APPENDIX A
TAP MEETING MINUTES

For copies of the meeting minutes, contact the MnDOT Office of Research & Innovation at research.dot@state.mn.us or 651-366-3780.

APPENDIX B
MANAGING UTILITY CONGESTION IN RIGHTS-OF-WAY SURVEY RESULTS

For a copy of the survey results, contact the MnDOT Office of Research & Innovation at research.dot@state.mn.us or 651-366-3780.

APPENDIX C
SURVEY RESPONDENT UPLOADED DOCUMENTS

Registration of Utility Providers

Does your agency require utility providers to register prior to any work permit application?

If YES, please upload a copy of your agency's utility provider registration form.

COUNTY OF CHISAGO
DEPARTMENT OF PUBLIC WORKS
313 N. Main St, Room 400
Center City, Mn. 55012
Phone (651) 213-8705 Fax: (651) 213-8772

REGISTRATION FORM

Registration Type

Please check whether you will be the Owner of Utility placed in the ROW or a Contractor wishing to work in the ROW. If other, please explain in next section.

___Utility Company
___Contractor
___Other (Explain)

Are you a new applicant or updating information?
___Update ___New

REGISTRANT INFORMATION
(Company Information)

Name_____
Address_____
_____
City_____ State____ Zip Code_____
Phone No.(___)_____ Fax No. (___)_____
E-Mail Address _____

If you checked other in Registration Type, Please explain below:
_____
_____
_____
_____

One Call Information (If Applicable)
Registration Number ID Number (If Applicable)

LOCAL REPRESENTATIVE
Local Contact Person that can Speak for Company that is authorized to accept official notices from the County and act as an agent for the Registrant.

Name_____ Phone No. (_____)_____
Address_____ Fax No. (_____)_____
_____ E-Mail Address: _____
City_____ State____ Zip Code_____

24 HOUR EMERGENCY CONTACT INFORMATION

Name	Phone Number	Pager	Fax Number
_____	(___)_____	(___)_____	(___)_____
_____	(___)_____	(___)_____	(___)_____
_____	(___)_____	(___)_____	(___)_____

LOCAL REPRESENTATIVE

Please attach copies of certificates and licenses as required for registration:
1. Certificate of Insurance listing Chisago County as additional insured must be submitted with registration.

FOR OFFICE USE ONLY

Date Received: _____
Date Approved: _____
Registration Number Assigned: _____
Registered by Whom: Scott A.Johnson

Official County Contact:
Name Scott A. Johnson
Telephone No. (651)213-8705

Emergency County Contact:
Name Bruce Lind (Maint. Superintendent)
Telephone No. (651)755-7270

City of Albert Lea Right of Way Permit

221 E. Clark Street, Albert Lea, MN 56007 507-377-4325 Fax: 507-377-4336

Applicant _____
Person Performing Work _____
Address: _____
Contact Name & Phone No. : _____
Email Address: _____

Property Owner _____
Address – Location _____
Lot: _____ Block: _____
Parcel ID: _____
Email Address: _____

Permit Requested

☐ Street/Alley Obstruction
☐ Boulevard Construction
☐ Construction Noise Ord.
☐ Sidewalk Construction
☐ Driveway Construction
☐ General Utility (gas, electric, phone, cable, etc.)

*** 2 year warranty for all work**

OFFICE USE ONLY

Permit is Valid

_____ to _____

Permit # _____

Pmt. Date _____
(if applicable)

Described Work to be Performed

_____

_____

Work Schedule Work to commence on/after _____ Work to be completed by _____
Traffic (if applicable) Street closure on _____ Reopen street by _____
☐ Detouring route _____

Installation Methods ☐ Open Trench ☐ Boring ☐ Jacking ☐ Other _____

Installation Materials
_____ Plastic Pipe _____ Sanitary Service ☐ Plastic ☐ Clay ☐ Cast Iron
_____ Subdrain _____ Storm Sewer _____ Copper Water Service _____ Ductile Iron
_____ Fiber Optic _____ Coaxial Cable _____ Copper/Plastic Gas Line _____ Copper Wire
Concrete ☐SW ☐DW _____ Bituminous Path _____ Other Material _____

Installation Location/Size _____ Width/Diameter _____ Length of Installation _____ Depth
☐ Blvd to Building ☐ Main to Blvd ☐ Other _____
Installation Purpose ☐ New Installation ☐ Replacement ☐ Repair ☐ Disconnect/Abandon
Restoration Areas ☐ Curb & Gutter ☐ Sidewalk ☐ Roadway ☐ Blvd/Vegetation
Service Area Stubbed Beyond Curb Box ☐

Permit Issuance
Owner/Applicant's Signature (Utility Permits Only) _____ Date _____
Contractor's Signature (Utility Permits Only) _____ Date _____
Owner/Applicant/Contractor Notes: _____

_____

City Signature _____ Date _____
City Notes: _____

_____

_____

Owner, Applicant, Contractor hereby agrees to comply with the ordinances of the City of Albert Lea and the engineering standards of the Public Works Department, regulations of the State of Minnesota and the Federal Government and agree to fully comply with the satisfaction of the City Engineer and also agrees to the additional requirements/regulations, noted on page 2 of this permit, and is responsible for signing per MN MUTCD ADA Compliant.

RECEIPT
☐ Street/Alley Obstruction
☐ Boulevard Construction
☐ Construction Noise Ord.
☐ Sidewalk Construction
☐ Driveway Construction
☐ General Utility (gas, electric, phone, cable, etc.)

Permit No. _____

Valid from _____ to _____

Applicant _____

Entered By _____

City of Albert Lea Right of Way Permit Regulations

Note: *The following regulations apply to and are conditions of the permit issued as a result of this application.*

GENERAL

1. The permit is revocable in nature. If the City shall make any improvements or change on all or part of its ROW which impacts Applicant's installation, then and in every case the applicant herein named shall, after notice from the City or its authorized agents, proceed to alter, change, vacate or remove from ROW said installation necessary to conform with said changes. Any work performed by the Applicant as a result of City's ROW-modification shall be at Applicant's sole cost and expense.
2. The Applicant shall assume all liability for, and save the City, its agents and employees, harmless from, any and all claims for damages, actions or causes of action arising out of the work to be done herein and the continuing uses by the Applicant, including but not limited to the placing, construction, reconstructing, maintaining and using of said utility under this application and permit.
3. ROW shall be cleaned up after work is completed.
4. No work shall be done in such a manner as to create or maintain a nuisance.
5. After Applicant completes its work in the ROW, Applicant must notify the City Engineer within 2 working days that such work has been completed and is ready for final inspection. Call City Engineering Department at 507-377-4325 for an inspection request.
6. A certified check or deposit may be required to ensure proper restoration of surfaces and to cover payment for any damage to street or public property.
7. Permittee warrants all work, including settlement of backfill, for 2 years.

SAFETY

1. Applicant shall erect safety devices for the protection of the work and the safety of the public that conform to the requirements of the Manual of the Uniform Traffic Control Devices.
2. Blasting is not permitted unless prior approval is given by the City.
3. For trenching operations it is Applicant's responsibility to be familiar with and follow the provisions of the Department of Labor and Industry Occupational Safety and Health Rules.
4. Contractor shall notify area utilities through the state wide Gopher One Call 800-252-1166 prior to any excavation.
5. Permittee agrees to abide by the MUTCD traffic standards.

ROADWAY, SIDEWALK, AND BOULEVARD REPLACEMENT

1. Installation of pipe under concrete or high type bituminous pavements shall be done by jacking or boring unless trenching is specifically permitted in the Special Provision of the Permit.
2. All backfilling must be placed in layers and thoroughly tamped and material must be flush and even with the surface when finally in place.
3. All surfaces shall be restored to original conditions.
4. All surfaces shall be restored by the Contractor with the exception of street surfaces which will be replaced by the Department of Public Works and charged to the Contractor at current Revised Street Opening Rates, approved by the City Council.
5. If settlement occurs or the excavation caves in so that replacement materials settle at any time, or if the roadway surface deteriorates or fails to serve as well as the original surface, within a period of two years after the completion of this project, it shall be repaired and replaced by the Applicant.

MAPPING

1. Permittee agrees to provide electronic copies or hard copies and as built constructed information for the project to Public Works.

APPLICATION FOR RIGHT-OF-WAY USER REGISTRATION

4141 Douglas Drive N, Crystal, MN 55422
Telephone: 763-531-1000 / www.crystalmn.gov
Deaf and hard of hearing callers may call Minnesota Relay at 711.

PLEASE PRINT CLEARLY

	Fee:*(0100-4265) $50.00
Business Name: Business Address:	Business Phone: ( ) Website:
Applicant's Name:	Business Phone: ( ) Email:
Local Representative: Local Address:	Business Phone: ( ) Cell Phone: ( ) 24 Hr. Emergency Phone: ( ) Email:

I enclose the sum of Fifty and 00/100 dollars to the City of Crystal as required by the Ordinances of said City and have complied with all the requirements of said Ordinances necessary for obtaining this Registration.

I hereby make application to operate and maintain equipment or facilities within the Right-of-Way or property owned by the City of Crystal for the calendar year _____.

ADDITIONAL REQUIREMENTS

1. Certificate of Insurance
2. Incorporation Certificate as recorded and certified
3. Certificate of Authority, Minnesota Public Utilities Commission

The information in this Application For Registration is true and complete to the best of my knowledge.

_____ _____

Signature of Applicant ***Date***

This registration is not a permit to work, occupy or maintain facilities within the Public Right-Of-Way.
A Public Works Right-Of-Way permit is required.

City Use Only: JDE#_____ Date Entered: _____
PIMS ID#_____ Approved By: _____

DAKOTA COUNTY TRANSPORTATION
Permits Office
14955 Galaxie Avenue
Apple Valley, MN. 55124-8579
Phone: 952.891.7115 Fax: 952.891.7127
highwaypermits@co.dakota.mn.us

CONTRACTOR REGISTRATION

Company Name:_____ _____

Registrant's Name:_____

Address:_____

_____
City State Zip

Phone Number: (_____)_____Fax Number: (____)_____

E-mail Address: _____

The local representative shall be accessible for consultation at all times.

Local Representative:_____

Address:_____

_____
City State Zip

Phone Number: (_____)_____ Fax Number: (_____)_____

Cell Phone: _____

E-mail Address: _____

A Certificate of Insurance is required in order to obtain a permit for work in any Right of way of the City or County. The Certificate of Insurances must list the city and/or County as additionally insured your project(s). A onetime $40 - Registration Fee is required.

Application for Utility/ ROW Permit

Hennepin County
Hennepin County Public Works
Transportation Department (Roads and Bridges) - Operations
1600 Prairie Drive
Medina, MN 55340-5421

Permit#: **2019-U0535**
Status: Active
Road: 110
City/Twp: Minnetrista
Maintenance District: South

PROJECTS NORTH OF HIGHWAY 55
Jacob Cardinal (612-328-1622) 24 hours before starting work

PROJECTS SOUTH OF HIGHWAY 55
Kurt Weber (612-221-9388) 24 hours before starting work

Email

Construction Dates

Start: 06/10/2019 **End:** 12/31/2019

Underground

Conduit/casing type:	PVC / Other Plastic
Underground type:	Service
Method of installation:	Open Trench
Depth:	36"

Payment method

credit card / electronic check

Payment details

Routine Fee	$330.00
Total:	$330.00

Construction Description

REPAIR GAS SERVICE TO 5800 PAINTER RD
MGC# 19-2582
WO# 90393738
IF QUESTIONS CALL DAVE OLSON 612-849-9832

Site(s)

Road	From	To	Relative to Road
110	PAINTER RD	COUNTY RD 110	West

henncty-5800painterrd-0605.pdf

Special provisions:

- Approved subject to the following conditions:

  1) Contact Kurt Weber at (612) 221-9388 or via email at Kurtis.Weber@hennepin.us at least 24 hours prior to construction. Failure to contact the south inspector or the Permits Office shall be considered a violation of the permit and grounds for dismissing contractor from the job site.

  2) Applicant shall maintain safe conditions for pedestrians at all times during installation

  3) If all work under this permit is completed, click the green flag icon in Permit view to change the status to 'Ready for Inspection'.

  4) Temporary traffic control layouts on County roads shall conform to the most recent version of the Minnesota Manual on Uniform Traffic Control Devices.

  5) Notify Roy Doran at 612-596-0293 a minimum of 48 hours prior to any work involving a Hennepin County traffic signal, including prior to the milling of a road surface that may contain loop detectors. There may be additional charges invoiced to you for work completed by the Hennepin County Signal Shop.

6) Requests for Saturday work must submitted by email to michael.olmstead@hennepin.us and received by Thursday at noon. For all other off hour requests, please contact the individual inspector mentioned above in #1.

- This roadway was resurfaced within the last 5 years. Therefore no excavations will be allowed in the paved surface.

Notes:

No notes

Approval	Digital Signature
Applicant	Jody M. Cox - 06/05/2019 11:34 AM 2cdf2553ed2e4056053c9eb592959eb4 6618bfd0c2ff03496c6d1739ff71c580
#1 Permits Inspector	Kurt Weber - 06/06/2019 7:19 AM c2ef75d41e988f9b0bbae7b7f63c1e18 788c9da6251c12b025d7b4a2bee3d910
#2 Permits Supervisor	Michael D. Olmstead - 06/10/2019 1:03 PM 316eb80c1ce915eead0f9ceb4494d223 4185fb7d0b7b86ae445f8110b1e05674

Definitions

- UTILITY. Under this order "Utility" shall mean and include all privately, publicly or co-operatively owned communication lines and facilities, any systems, lines and facilities for the distribution and transmission of electrical energy, oil, gas, water, sewer, steam and other pipe lines, railways, ditches or other structures which under the laws of this State or the Ordinance of any County or City may be constructed, placed or maintained across, along or on County Highway Right-of-Way. Dependent upon the meaning intended in the context, "utility" shall also mean the Utility Company, inclusive of any wholly owned subsidiary.

General

- -Except as otherwise permitted, utility construction and relocation on County Highway Right-of-Way shall not be commenced until an application for a Permit has been made and such Permit granted. The Permit submittal shall include detailed construction plans that show the location of the proposed utility with reference to County Highway Centerline.
  -Each registrant shall, at the time of registration and by January 1 of each year, file a construction and major maintenance plan for all work within the county right-of-way for the upcoming year with the Permit Office. Such plan shall be submitted using a format designated by the Permit Office and shall contain the information necessary to facilitate coordination and reduction in the frequency of excavations and obstructions of right-of-way. The registrant shall map electronically upcoming major projects onto the county's established mapping application (Utility Infrastructure Integration, UI2).
  -Inclement weather shall be reason for delay of the project start or suspension of the project as determined by Hennepin County.

-Safety vests shall be worn by ANYONE occupying County right-of-way.
-Permit on Job: Permits or copies shall be kept on the work site, while work is in progress, in the custody of the individual in charge, and shall be exhibited upon request by any county official.
-Provisions and Specifications: These general permit requirements and specifications shall be considered as forming an integral part of each and every permit issued for operations on county roadways. The work authorized by this permit shall be done at such time and in such manner as shall be consistent with the safety of the public and shall conform to all requirements and standards of the County of Hennepin as herein specified. If at any time Hennepin County finds that the work is not being, or has not been, properly performed, the Permittee, upon being notified, shall immediately take the necessary steps, at their own expense, to place the work in conformance to said requirements or standards.
-Annulment: In the event of failure or neglect by said Permittee or Permittee's employees, to perform and comply with the prescribed conditions, restrictions and regulations, the Transportation Department may revoke and annul this permit and order said Permittee to immediately remove any and all structures or property belonging to said Permittee from the legal limits of the roadway or county property.
-Private Property: The Permit as issued does not in any way imply an easement on private property or grant a right to encroach on private property.
-Driving Limitations: No driving onto highway from ditch or driving on shoulders or over curbs where damage will occur.
-Lugs on Equipment: No lugs shall be used on equipment traversing Hennepin County roadways.
-Insurance: The Permittee shall have in force during the operation of Permittee's vehicles and equipment over and/or adjacent to Minnesota roadways, (1) Commercial General Liability Insurance with each occurrence of $1,500,000 and general aggregate limits of $2,000,000, and (2) Automobile Liability Insurance with combined single limit each occurrence coverage for bodily injury and property damage limits of $1,500,000. These are minimum insurance requirements. It is the sole responsibility of the Permittee to determine the need for and to procure additional insurance which may be needed in connection with this Permit. If requested, a Certificate of Insurance must be provided naming Hennepin County as certificate holder and as an additional insured for the Commercial General Liability coverage with respect to operations covered under this Permit.
-Indemnification: The Applicant shall, to the extent permitted by law, defend, indemnify and hold harmless the County, it's employees, officers, agents, and contractors against any claim of liability or against any loss of any kind, including compliance with administrative orders and regulations, and specifically including, without limitation, against any claim of liability or loss from personal injury or property damage resulting from or arising out of the presence of the Applicant's equipment or other personal property on County managed public right-of-way or on County property placed within the right-of-way that is in any way related to or as part of an attachment to County owned infrastructure and also as to any willful misconduct of the Applicant, it's employees, contractors or agents, except to the extent such claims or damages may be due to or caused by the willful misconduct of the County, or it's employees, contractors, or agents.
-Liability Waiver: The Applicant waives any liability of the County, or any of its respective agents, representatives, successors or employees for any lost revenue, lost profits, loss of technology, use of rights or services, incidental, punitive, indirect, special or consequential damages, loss of data, or interruption or loss of use of services, even if the County has been advised of the possibility of such damages, whether under theory of contract, tort (including negligence), strict liability or otherwise

that is related to, arises out of, or is in some part, caused by Applicant's attachment to or use of County owned infrastructure or county managed public right-of-way.

- TRAFFIC CONTROL:
  -All warning devices and barricades shall conform to the Minnesota Manual on Uniform Traffic Control Devices, current edition, and any and all updates or supplements thereto.
  -All warning devices, barricades, flagmen and equipment shall be provided by parties or organizations performing the work. Said devices shall be removed from the job site promptly upon completion of work.
  -Standard warning devices and barricades and safety vests shall be kept clean and in good repair at all times.
  -Detour on a County roadway requires ten (10) working days advance notice to the Permit Office.
  -Execution: The Permittee shall use due diligence in the execution of the work authorized under this permit in order not to endanger or unnecessarily obstruct travel along the said highway. Operations shall be so conducted at all times as to permit safe and reasonably free travel over the roads within the limits of the work herein prescribed. All safety measures for the free movement of traffic shall be provided by the Permittee at its own cost.
- GENERAL CONSTRUCTION
  -Conformity to Laws: The installation shall be made in conformity with all applicable laws, regulations and codes covering said installations. All installations shall be made inconformity with regulations of governmental agencies for the protection of the public.
  -Americans with Disabilities Act: Any work in the County's rights-of-way that impacts any pedestrian facilities requires that the restoration of the pedestrian facilities impacted be restored to conform to current ADA requirements and standards.
  -Removal: If at any time the permitted structure or facility shall fail from any cause whatsoever, the Permittee shall have the same removed or repaired immediately upon receipt of written notice to do so.
  -Existing Facilities: Applicant must protect all existing installations.
  -Cutting Trees: The permission herein granted does not confer upon the Permittee the right to cut, remove or destroy trees or shrubbery within the legal limits of the roadway or relieve Permittee from obtaining any consent otherwise required from the owner of the property adjacent thereto.
  -Drainage: The existing drainage patterns shall not be altered unless approved by Hennepin County. Watershed District approval and drainage calculations are required if plan alters existing drainage patterns.
  -Clean-Up: Street surface and roadside shall be kept clean, neat and presentable throughout construction as determined by the Hennepin County Transportation Department.
  -Dust control shall be provided upon request of the Hennepin County Transportation Department at the Permittee's expense.
  -Trees and Vegetation: Burning or disking operations and or the use of chemicals to control or kill trees, brush and other vegetation is prohibited without Hennepin County approval.
- RESTORATION
  -Damage to Roadway- If pavement, roadway or right-of-way is damaged; same shall be restored, in a timely manner to its original or a better condition, at the sole expense of the Permittee.
  -The Permittee will be responsible for maintenance or repair of any and all failures due to settlement, erosion, lack of vegetation growth, rutting or other job related problems for a period of two (2) years after project completion and Notice of Work Completion form has been received by Hennepin County. Permittee shall perform all said maintenance immediately after it has been

notified of deficiencies. Permittee shall be responsible for all costs and expenses related to said maintenance.
-Permittee's failure to perform maintenance or repair of any failures and/or damage to roadway or right-of-way immediately will result in Hennepin County, through its own forces or its contractors, performing said maintenance or repairs and billing Permittee for all costs and expenses related thereto. Permittee shall make payment to Hennepin County within fifteen (15) days of receipt of said bill. Permittee agrees, that if it fails to make payment of said amounts within the specified time, to Hennepin County, Permittee shall pay all costs related to debt collections, including, but not limited to, court costs, fees, interest and attorneys' fees.
-Permanent restoration plans must be submitted to the County's Permit Office prior to starting construction for temporary restoration/winter stabilization work occurring between November 1st and April 30th.
-Quality of Work: Finished surface, base and sub-base of road upon completion of work shall be equal to or better than specifications for original road.

Underground

- -Excavations shall be cribbed, sheeted and/or fenced when necessary, or as required by Hennepin County.
  -Boring or Jacking: Installation of pipe under roadways and driveways, shall be jacked or bored as designated by the Hennepin County Transportation Department. No road or driveway, including field accesses, may be crossed with a vibratory plow.
  -Casing pipe shall be required for installations exceeding 4 inches in diameter under roadways.
  -All crossings under a Hennepin County Road shall be a minimum of 60" deep unless prior permission to cross at a shallower depth is received from Hennepin County.
  -Pressure grouting shall be required as designated by Hennepin County Transportation Department.
  -Manholes: All manhole covers, valve covers, etc. shall be placed one-quarter inch lower than finished grade.
  -The use of flow-able fill as a backfilling material must be approved by the Hennepin County Transportation Department.
  -Traffic will not be allowed over gravel up to grade or steel plates unless previously authorized by the Hennepin County Transportation Department.

RAMSEY COUNTY
Public Works

ANNUAL RIGHT-OF-WAY USER REGISTRATION FORM

RAMSEY COUNTY PUBLIC WORKS
1425 Paul Kirkwold Drive, Arden Hills, MN 55112
(E-mail) pwpermits@ramseycounty.us
Phone: 651-266-7186 Fax: 651-266-7188

Applicant Name	Company Name	Phone No.:		
		E-mail:		
Billing Address: Street		City	State	Zip code

TYPE OF REGISTRATION

New ☐ or Annual Update ☐	Utility Owner ☐ or Contractor ☐

LOCAL REPRESENTATIVE EMERGANCY CONTACT INFORMATION

	Primary Contact	Secondary Contact
Name		
Business Phone		
Emergency Phone (24 Hour)		

ATTACHMENTS

Certificate of Insurance:

1. A copy of Ramsey County's "Insurance Requirements" can be downloaded from our website ramseycounty.us.
2. Attach a copy of your "CERTIFICATE OF LIABILITY INSURANCE" to the application.
3. Ramsey County, their officials and employees must be named as "additionally insured" on the Certificate of Liability Insurance.

Construction Performance Bond:

1. **UTILITY OWNERS:** shall post an Annual Construction Performance Bond in the amount of $100,000.00 and attach it to the application. Ramsey County reserves the right to increase the amount for larger projects.
2. **INDIVIDUAL PROJECT BONDS:** All Performance Bond amounts for individual projects shall be determined at the time of the permit application. The amount of the bond will be determined by several factors including age of the road, surface to be disturbed, width, length, and depth of the excavation. The length of this bond shall be for a period of twenty-four (24) months after the work is complete.

Applicant Signature	Date

DO NOT WRITE BELOW THIS LINE

Authorized County Representative			Registration Number
Authorized Signature:	Date:	**PERMIT FEE:** $	Payment: ☐ Check #_____ ☐ Billed ☐ Waived

SCOTT COUNTY PUBLIC WORKS DIVISION

HIGHWAY DEPARTMENT · 600 COUNTRY TRAIL EAST · JORDAN, MN 55352-9339
(952) 496-8346 · Fax: (952) 496-8365 · www.co.scott.mn.us

LEZLIE A. VERMILLION
PUBLIC WORKS DIRECTOR

REGISTRATION INFORMATION

Company/Registrant's Name: _____

Address: _____
City Zip

Phone: _____ Fax: _____

e-mail address: _____

Gopher State One-Call Registration ID Number: _____

(*A copy of Certificate of Insurance listing the County as additional insured must be submitted with the registration form.)

The local representative shall be accessible for consultation at all times.

In case of an emergency, please provide the following information:

Local Representative: _____

Address: _____
City Zip

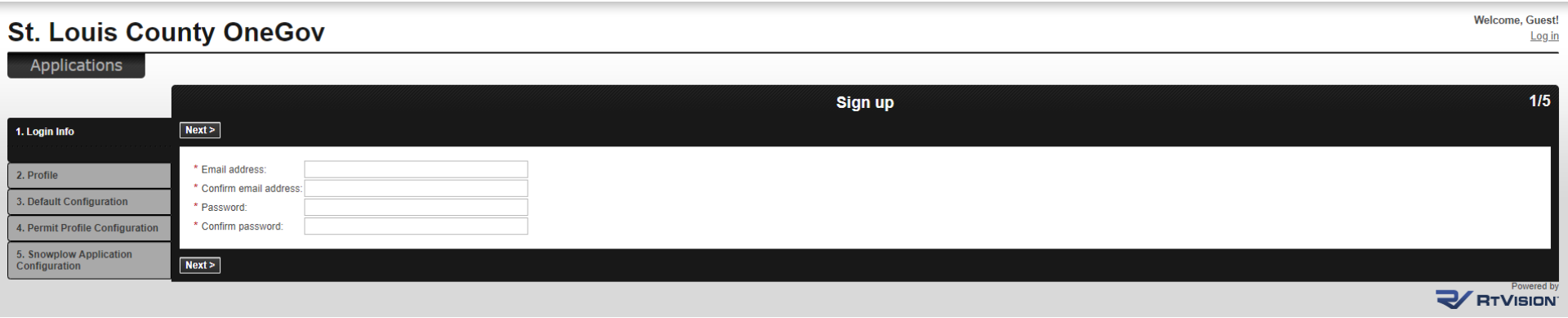
Phone: _____ Fax: _____

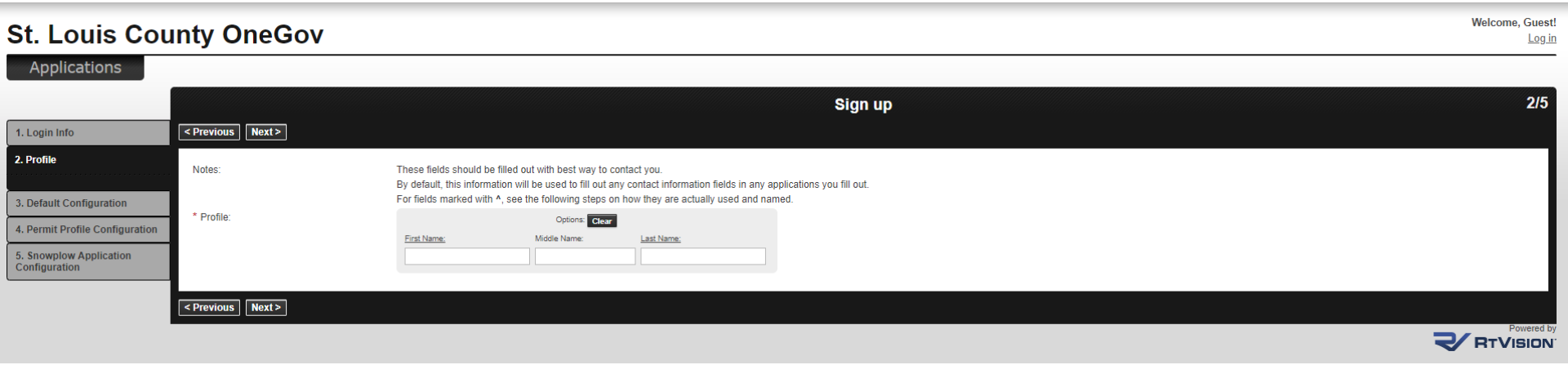
e-mail address: _____

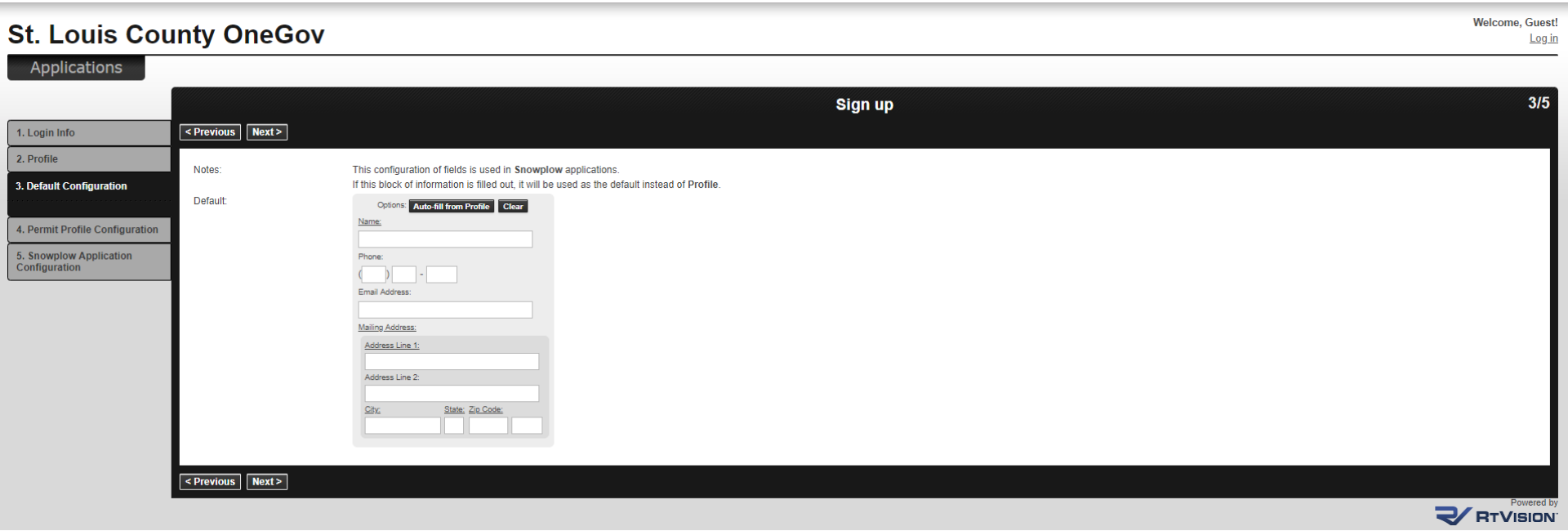
Pursuant to Scott County Ordinance No. 22, Management of the Public Right of Way

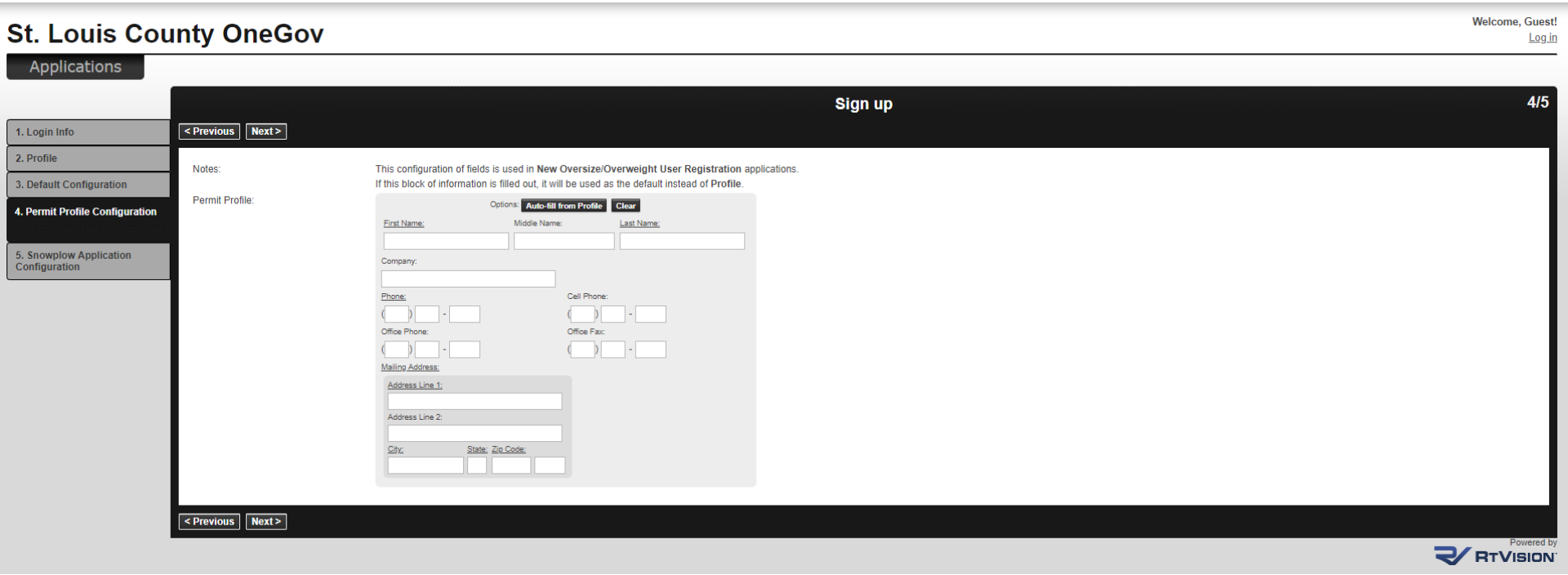
Registration Fee: $30.00

e:\word\permits\right-of-way_registration_form.doc


St. Louis County OneGov
Welcome, Guest!
Log in
Applications
Sign up
1/5
1. Login Info
Next >
2. Profile
3. Default Configuration
4. Permit Profile Configuration
5. Snowplow Application Configuration
* Email address:
* Confirm email address:
* Password:
* Confirm password:
Next >
Powered by
RtVision


St. Louis County OneGov
Welcome, Guest!
Log in
Applications
Sign up
2/5
1. Login Info
2. Profile
3. Default Configuration
4. Permit Profile Configuration
5. Snowplow Application Configuration
< Previous
Next >
Notes:
These fields should be filled out with best way to contact you.
By default, this information will be used to fill out any contact information fields in any applications you fill out.
For fields marked with ^, see the following steps on how they are actually used and named.
* Profile:
Options:
Clear
First Name:
Middle Name:
Last Name:
< Previous
Next >
Powered by
RtVision


St. Louis County OneGov
Welcome, Guest!
Log in
Applications
Sign up
3/5
1. Login Info
2. Profile
3. Default Configuration
4. Permit Profile Configuration
5. Snowplow Application Configuration
< Previous
Next >
Notes:
This configuration of fields is used in Snowplow applications.
If this block of information is filled out, it will be used as the default instead of Profile.
Default:
Options:
Auto-fill from Profile
Clear
Name:
Phone:
Email Address:
Mailing Address:
Address Line 1:
Address Line 2:
City:
State:
Zip Code:
< Previous
Next >
Powered by
RTVision


St. Louis County OneGov
Welcome, Guest!
Log in
Applications
Sign up
4/5
1. Login Info
2. Profile
3. Default Configuration
4. Permit Profile Configuration
5. Snowplow Application Configuration
< Previous
Next >
Notes:
This configuration of fields is used in New Oversize/Overweight User Registration applications.
If this block of information is filled out, it will be used as the default instead of Profile.
Permit Profile:
Options:
Auto-fill from Profile
Clear
First Name:
Middle Name:
Last Name:
Company:
Phone:
Cell Phone:
Office Phone:
Office Fax:
Mailing Address:
Address Line 1:
Address Line 2:
City:
State:
Zip Code:
< Previous
Next >
Powered by
RTVision

REGISTRATION FORM

(Submit Annually)

Registration Type

Please check whether you will be the Owner of the equipment placed in the right of way or the Contractor wishing to work in the ROW. If other, please explain in next section.

_____ Equipment Owner

_____ Contractor

_____ Other (Explain) _____

Are you a new applicant or updating information?

_____Update _____New

REGISTRANT INFORMATION
(Company Information)

Company, Government Office or Individual: _____

Address: _____

City: _____ State _____ Zip Code _____

Email Address _____

_____
Print Name Position Signature & Date

LOCAL REPRESENTATIVE

REQUIRED DOCUMENTS FOR REGISTRATION: Please attach a copy of a Certificate of Insurance.

Local contact person or yourself with your organization that is authorized to accept official notice from the County and act as agent for the Registrant:

Name: _____ Phone No._____

Address: _____ Cell No. _____

_____ Fax No. _____

City: _____State _____Zip _____ Email _____

REQUIRED DOCUMENTS FOR REGISTRATION: Please attach a copy of a Certificate of Insurance.

FOR OFFICE USE ONLY

Date Received _____ Registration Number Assigned _____

Date Approved _____

R:\permits\Forms\registrationform2018

Wright County Highway Department

3600 Braddock Ave. N.E.
Buffalo, MN. 55313

Phone: (763)682-7706 Fax(763)682-7313
Permit Office

RIGHT-OF-WAY OCCUPANCY REGISTRATION FORM

Registration Type

Type of Utility_____
(gas, electric, telephone, cable tv, water, sewer)
Government Entity (yes or no) _____Other_____ If other, explain below
_____

Type of Registration _____New
_____Update
_____Annual
For Year_____

REGISTRANT INFORMATION (Company/Government Entity Information)

Name _____

Address _____

City _____ State_____ Zip Code _____

Phone No. (_____) _____ Fax No. (_____) _____

E-Mail Address _____Date:_____

By registering, we agree to abide by the Wright County Right-of-Way Ordinance - _____
Signature of Authorized Representative

One Call Information (If Applicable)

Registration Number: (i.e. Gopher State One Call Terminal Code) _____

LOCAL REPRESENTATIVE

A Local Contact Person that can Speak for your Company and who is authorized to accept official notices from the County and act as agent for the Registrant.

Name _____ Phone No. (_____) _____

Address _____ Fax No. (_____) _____

_____ E-Mail Address: _____

City _____ State _____ Zip Code _____

24 HOUR EMERGENCY CONTACT INFORMATION

Name	Phone Number	Pager	Fax Number
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

BONDS. CERTIFICATES. LICENSES. ETC.

Please attached copies of Bonds, Certificates and Licenses as required, by Wright County for registration:

1. Certificate of Insurance
2. Certificate of Incorporation (if incorporated)
3. Certificate of Authority from Minnesota Public Utilities
4. $10,000.00 Continuous Surety Bond for maintenance of existing utilities
5. Project Bond per Wright County requirements

FOR OFFICE USE ONLY

Date Received: _____ Registration Number Assigned: _____ Regular Registration Fee $40.00___
City or Town Reg. Fee $ 0.00___

Date Approved: _____ Registered by Whom: _____

Official County Contact:
Name: _____

Telephone No. (_____) _____

Emergency County Contact:
Name: _____

Telephone No. (_____) _____

Permit for Utility Installation

Does your agency require a permit or agreement for utility installation?

If YES, please upload a copy of your agency's utility installation permit form or agreement.

COUNTY OF _____
DEPARTMENT OF HIGHWAYS

APPLICATION FOR UTILITY PERMIT on COUNTY HIGHWAY RIGHT-OF-WAY

Board of County Commissioners
_____, Minnesota
Attn: County Highway Engineer

C.S.A.H._____
C.R. _____

Application is hereby made for permission to place, construct, and thereafter maintain a _____ _____ along or across County Highway No. _____ from_____ to_____ _____feet from center line on the _____(East, west, north, or south) side of the county highway in accordance with the sketch shown on the inside hereof, or attached thereto.

I. AERIAL CONSTRUCTION

☐Single Pole
☐ H-Frame
☐ Single Pole and H-Frame
☐ Steel Tower
☐ Other _____

☐Open Wire
☐ Cable
☐Vertical
☐Cross-arm
☐ Vertical and Cross-arm

VOLTAGE	NUMBER OF CONDUCTORS	SIZE OF CONDUCTORS

Minimum height of conductor: _____ ft along highway _____ ft at crossing over highway

EXTENT AND LOCATION OF TREE TRIMMING AND/OR CLEARING:

II. UNDERGROUND CONSTRUCTION

CONDUIT

☐ Multiple Tile
☐ Transite
☐ Clay Tile
☐ Sectional Concrete
☐ Steel Pipe
☐ Other _____

CASING

☐ Steel Pipe ☐ Sectional Concrete ☐ Other _____

SIZE		DEPTH
VOLTAGE	NUMBER OF CONDUCTORS	SIZE OF CONDUCTORS

METHOD OF INSTALLING UNDER ROADBEDS (if open trench, explain why necessary)

☐ Open Trench _____
☐ Jacking ☐ Boring ☐Pneuma Gopher

EXTENT AND LOCATION OF TREE CLEARING	NEW FACILITY ☐	REPLACEMENT FACILITY ☐

III. Work to start on or after _____ and to be completed on or before _____.

IV. The applicant in carrying on any and all of the work herein above-mentioned or referred to in its application and in the Permit issued herefore, shall strictly conform to the terms of such Permit, and the regulations of the Board of County Commissioners, as set forth herein together with the Special Provisions, all of which are made a part hereof. The applicant specifically agrees to be bound hereby. The applicant shall also comply with the regulations of all other governmental agencies for the protection of the public. The work shall be accomplished in a manner that will not be detrimental to the highway and that will safeguard the public.

Date this _____ day of _____, _____

_____
Name of Company making application

Signature _____

By_____
Title

Address_____

Phone_____

DEFINITIONS

Utility. Under this order "utility" shall mean and include all privately, publicly, or co-operatively owned communication lines and facilities, any systems, lines and facilities for the distribut9on and transmission of electrical energy, oil, gas, water, sewer, steam, and other pipe lines, railways, ditches, flumes or other structures which under the laws of this State or the ordinance of any town or city may be constructed, placed, or maintained across, along, or on county highway right-of-way. Dependent upon the meaning intended in the context, "Utility" shall also mean the utility company, inclusive of any wholly owned subsidiary.

GENERAL

I. Except as otherwise permitted, utility construction and relocation on county highway right-of-way shall not be commenced until an application for a Permit has been made and such Permit granted. The Permit sketch shall show the location of the proposed utility with reference to county highway center line. A copy of the sketch shall be provided for each copy of such Permit.

II. Burning or disking operations and/or the use of chemicals to control or kill trees, brush and other vegetation is prohibited without prior approval from the County Highway Engineer.

III. All waterways and lines of drainage shall remain operative.

IV. Wherever topsoil and sod are disturbed they shall be replaced and maintained satisfactorily until the turf is established.

V. the utility facility and installation shall not interfere with any existing utility facilities on the county highway right-of-way.

VI. When necessary, barricades, warning devices and flagmen shall be provided by the Utility during all phases of their construction and maintenance operations on county highway right-of-way.

VII. At the time of construction of the utility and at the times of subsequent maintenance, prior approval shall be obtained from the County Highway Engineer for the cutting and trimming of trees within the county highway right-of-way. Wherever trees are cut the resulting stumps shall be removed unless otherwise provided in the Special Provisions of the Permit. Any holes caused by stump removal shall be backfilled, the area leveled and all materials associated therewith disposed of outside the county highway right-of-way. The utility shall advise the County Highway Engineer at least 48 hours in advance of its intent to start clearing and grubbing operations so that proper supervision can be provided.

VIII. The Utility shall notify the County Highway Engineer of its intent to perform service and maintenance operations which will interfere with the flow of traffic on county highways, and shall obtain his approval prior to performing such operations. However, the Company may perform service and maintenance operations on county highways including opening and disturbing the surface of the right-of-way without prior approval in those instances where an emergency exists that is dangerous to the life or safety of the public and which requires immediate repair. The Utility shall take all necessary and reasonable safety measures to protect the traveling public and shall notify the County Highway Engineer at the earliest possible moment.

IX. If at any time _____ County, acting through its Board of County Commissioners, shall deem it necessary to make any improvements or changes on all or any part of the right-of-way of the county highway which affect a utility located on county highway right-of-way, then and in such event, the owner of the utility shall within 15 days after written notice from the Board of County Commissioners, or its authorized agent, proceed to alter, change, vacate or remove said utility from the county highway right-of-way so as to conform to said county highway changes and as directed by the Board of County Commissioners. Such work shall be done without any cost whatsoever to _____ County and shall be completed within the date specified in said written notice. The Utility shall assume all liability and save _____ County harmless from any and all claims of damage of any nature whatsoever occasioned by reason of not having removed said utility within the time specified in said notice.

X. The Utility shall assume all liability for, and save the County, its agents and employees, harmless from, any and all claims for damages, actions or causes of action arising out of the work to be done herein and the continuing uses by the Utility, including but not limited to the placing, constructing, reconstructing, maintaining and using of said utility under this application and Permit.

XI. The Board of County Commissioners may require the Utility, or its contractor, to furnish a deposit in the form of a certified check, a surety bond, or corporate undertaking, in favor of the Board of County Commissioners of _____ County, for any expense incurred by the County in the repairing of damage to any portion of the county highway right-of-way caused by work performed under a Permit, including any out of the ordinary engineering supervision and inspection expense provided by the county. In those instances wherein a deposit is required, the amount of the deposit shall be specified in the Special Provisions of the Permit. If a check is furnished, any monies remaining over and above such expense shall be returned to the applicant.

XII. The Permit as issued does not in any way imply an easement on private property.

XIII. The installations shall be made in conformity with all applicable laws, regulations, and codes covering said installations. All installations shall be made in conformity with regulations of governmental agencies for the protection of the public.

XIV. Upon completion an installation, the Utility shall restore the county highway right-of-way to its original condition. The Utility shall then notify the office of the County Highway Engineer of the completion of the work so that inspection can be made to determine its acceptability.

AERIAL

I. There shall be only a single pole line on the county highway right-of-way on either side of the center line thereof.

II. Longitudinal installations on county highways shall normally be located in the outer five feet of the right-of-way. At crossing of the county highway, poles shall be placed at a minimum of thirty feet from the shoulder lines of the through roadbeds unless right-of-way widths are prohibitive to such location.

III. The location of all brace poles, anchors, and anchor poles within the limits of the county highway right-of-way shall be approved by the County Highway Engineer.

IV. In those instances in which a Utility is issued a Permit or Permits for construction on both sides of the county highway right-of-way in a given area, such Permit is conditioned upon the Utility subsequently providing joint use to other Utilities upon reasonable terms mutually agreeable to the Utilities.

UNDERGROUND

I. All crossings of the roadbeds of the county highways shall be made by boring inside a casing or carrier pipe, or by jacking, unless this procedure is modified in the Special Provisions of the Permit. The auger shall no lead the casing or carrier pipe by more than one inch. Open trenching shall be restricted to the area from 5 feet beyond the shoulder to the right-of-way line except as modified in the Special Provisions of the Permit.

II. When pipes with bells or flanges are installed, the crossings of the roadbeds of the county highway shall be made by boring inside a conduit as provided in paragraph I of this section or jacking a conduit of sufficient diameter to permit threading the carrier pipe through it.

III. All voids caused by jacking or boring shall be filled by pressure grouting. The grout material shall consist of a sand-cement slurry of at least two sacks of cement per cubic yard and a minimum of water to assure satisfactory placement.

IV. The underground utilities shall be so installed as virtually to preclude any necessity for disturbing the roadbeds to perform maintenance operations.

V. Underground installations shall be accomplished without damaging or destroying the principal root structure of specimen trees.

LOCATION SKETCH

Show location of proposed facility in relation to the center line of the county highway and other pertinent features such as right-of-way line, shoulder line, curb line and edge of surfacing. The facility should also be referenced to adjacent land lines.

_____ COUNTY
DEPARTMENT OF HIGHWAYS

UTILITY PERMIT

Reference: Project_____
C.S.A.H_____
C.R_____

In accordance with the applications herein, a Utility Permit is granted to _____ _____to place, construct, and thereafter maintain _____ _____ on or across, or under the right-of-way of County Highway No. _____ In the location shown on the sketch which is a part of said application, or in such location as may be specified by the Department of Highways in the Special Provisions hereof.

SPECIAL PROVISIONS:

Approved _____

Board of County Commissioners
_____Minnesota

By _____
County Highway Engineer

Copies:
h:\word\karen word files\permits\utility permit.doc

Permit No._____
Certified Check No._____
Surety Bond No._____
Date of S. Bond or C. Check_____
Bank or Bonding Co._____
Deposit Made by_____
_____

BLUE EARTH COUNTY

Effectively and Efficiently Delivering Essential Services

www.blueearthcountymn.gov

COMMISSIONERS

District 1 Drew Campbell
District 2 Vance Stuehrenberg
District 3 Mark Piepho
District 4 Will Purvis
District 5 Kip Bruender

Historic Courthouse
204 S. Fifth St.
PO Box 8608
Mankato, MN 56002

Administration
TEL: 507-304-4150
FAX: 507-304-4344

Extension
TEL: 507-304-4325
FAX: 507-304-4059

Finance
TEL: 507-304-4182
FAX: 507-304-4077

Physical Plant
TEL: 507-304-4249
FAX: 507-304-4203

Taxpayer Services
PO Box 3567
TEL: 507-304-4251
FAX: 507-304-4075

Government Center
410 S. Fifth St.
Mankato, MN 56001

Human Services
PO Box 3526
TEL: 507-304-4319
FAX: 507-304-4379

Environmental Services
PO Box 3566
TEL: 507-304-4381
FAX: 507-304-4431

Taxpayer Services/ License Center
PO Box 3524
TEL: 507-304-4340
FAX: 507-304-4396

Veterans Services
PO Box 8608
TEL: 507-304-4246
FAX: 507-304-4379

Information Technology
PO Box 8608
TEL: 507-304-4204
FAX: 507-304-4355

Public Works
35 Map Dr.
PO Box 3083
Mankato, MN 56002
TEL: 507-304-4025
FAX: 507-304-4049

Justice Center
401 Carver Road
PO Box 8608
Mankato, MN 56002

Sheriff's Office
PO Box 228
TEL: 507-304-4800
FAX: 507-304-4818

County Attorney
PO Box 3129
TEL: 507-304-4600
FAX: 507-304-4620

Probation
PO Box 3543
TEL: 507-304-4750
FAX: 507-304-4710

Library
100 E. Main St.
Mankato, MN 56001
TEL: 507-304-4001
FAX: 507-304-4009
www.beclibrary.org
TDD: 507-304-4399

MEMO

To: Applicants of Utility Permits

From: Ryan Thilges, P.E., Public Works Director/County Engineer

Date: April 18, 2017

Subject: Application for Working in Blue Earth County Right of Way

Included with this memo is your completed and signed Utility Permit that you have recently applied for with Blue Earth County Highway Department.

Enclosed is additional information we have added to this permit. With future applications of your Utility Permit you will be responsible for reviewing and following the information from the MN Statute 216D and MN One Call Excavation Notice Laws when working in the County Highway Right of Way. The Utility Permit and additional instructions can be found on the Blue Earth County Website at: www.blueearthcountymn.gov. Search Departments, Public Works/Parks, County Roads & Bridges, Permits, Utility Permit in Right of Way.

When applying for a Permit Application to the County, you will only need to include the first (4) pages. You do not need to include the instruction pages.

If you have further questions or concerns, please contact myself or Chad Wilde at 507-304-4025.

Enclosures (1)

H:\WORD-\KAREN WORD FILES\SANDY\Utility Permit Letter of New Instructions.docx

216D.03 NOTIFICATION CENTER

Subdivision 1. **Participation.** An operator shall participate in and share in the costs of one statewide notification center operated by a vendor selected under subdivision 2.

Subd. 2. **Establishment of notification center; rules.** (a) The notification center services must be provided by a nonprofit corporation approved in writing by the commissioner. The nonprofit corporation must be governed by a board of directors of up to 20 members, one of whom is the director of the Office of Pipeline Safety. The other board members must represent and be elected by operators, excavators, and other persons eligible to participate in the center. In deciding to approve a nonprofit corporation, the commissioner shall consider whether it meets the requirements of this paragraph and whether it demonstrates that it has the ability to contract for and implement the notification center service.

(b) The commissioner shall adopt rules:

(1) establishing a notification process and competitive bidding procedure for selecting a vendor to provide the notification service;
(2) governing the operating procedures and technology needed for a statewide notification center; and
(3) setting forth the method for assessing the cost of the service among operators.

(c) The commissioner shall select a vendor to provide the notification center service. The commissioner may advertise for bids as provided in section 16C.06, subdivisions 1 and 2, and base the selection of a vendor on best value as provided in section 16C.06, subdivision 6. The commissioner shall select and contract with the vendor to provide the notification center service, but all costs of the center must be paid by the operators. The commissioner may at any time appoint a task force to advise on the renewal of the contract or any other matter involving the center's operations.

(d) An operator may submit a bid and be selected to contract to provide the notification center service under paragraph (a) or (c). The commissioner shall annually review the services provided by the nonprofit corporation approved under paragraph (a) or the vendor selected under paragraph (c).

Subd. 3. **Cooperation with local government.** In establishing operating procedures and technology for the statewide notification center, the board of directors or the commissioner must work in cooperation with the League of Minnesota Cities, the Association of Minnesota Counties, and the Township Officers' Association. The purpose of this cooperation is to maximize the participation of local governmental units that issue permits for activities involving excavation to assure that excavators receive notice of and comply with the requirements of sections 216D.01 to 216D.07.

Subd. 4. **Notice to local government.** The notification center shall provide local governmental units with a master list, by county, of the operators in the county who are participants in the notification center, and the telephone number and mailing address of the notification center.

History: *1987 c 353 s 9; 1997 c 187 art 1 s 15; 1998 c 386 art 2 s 69*

216D.04 EXCAVATION; LAND SURVEY

Subdivision 1. **Notice required; contents.** (a) Except in an emergency, an excavator shall and a land surveyor may contact the notification center and provide notice at least 48 hours, excluding Saturdays, Sundays, and holidays and not more than 14 calendar days before beginning any excavation or boundary survey. An excavation or boundary survey begins, for purposes of this requirement, the first time excavation or a boundary survey occurs in an area that was not previously identified by the excavator or land surveyor in the notice.

(b) The notice may be oral or written, and must contain the following information:

(1) the name of the individual providing the notice;

(2) the precise location of the proposed area of excavation or survey;

(3) the name, address, and telephone number of the individual or individual's company;

(4) the field telephone number, if one is available;

(5) the type and extent of the activity;

(6) whether or not the discharge of explosives is anticipated;

(7) the date and time when the excavation or survey is to commence; and

(8) the estimated duration of the activity.

Subd. 1a. **Plans for excavation.** (a) Any person, prior to soliciting bids or entering into a contract for excavation, shall provide a proposed notice to the notification center to obtain from the affected operators of underground facilities the type, size, and general location of underground facilities. Affected operators shall provide the information within 15 working days. An operator who provides information to a person who is not a unit of government may indicate any portions of the information which are proprietary and may require the person to provide appropriate confidentiality protection. The information obtained from affected operators must be submitted on the final drawing used for the bid or contract and must depict the utility quality level of that information. This information must be updated not more than 90 days before completion of the final drawing used for the bid or contract.

(b) This subdivision does not apply to bids and contracts for:

(1) routine maintenance of underground facilities or installation, maintenance, or repair of service lines;

(2) excavation for operators of underground facilities performed on a unit of work or similar basis; or

(3) excavation for home construction and projects by home owners.

(c) A person required by this section to show existing underground facilities on its drawings shall conduct one or more preliminary design meetings during the design phase to communicate the project design and coordinate utility relocation. Affected facility operators shall attend these meetings or make other arrangements to provide information.

(d) A person required by this section to show existing underground facilities on its drawings shall conduct one or more preconstruction meetings to communicate the project design and coordinate utility relocation. Affected facility operators and contractors shall attend these meetings or make other arrangements to provide information.

(e) This subdivision does not affect the obligation to provide a notice of excavation as required under subdivision 1.

Subd. 2. **Duties of notification center; regarding notice.** The notification center shall assign an inquiry identification number to each notice and retain a record of all notices received for at least six years. The center shall immediately transmit the information contained in a notice to every operator that has an underground facility in the area of the proposed excavation or boundary survey.

Subd. 3. **Locating underground facility; operator.** (a) Prior to the excavation start time on the notice, an operator shall locate and mark or otherwise provide the approximate horizontal location of the underground facilities of the operator and provide readily available information regarding the operator's abandoned and out-of-service underground facilities as shown on maps, drawings, diagrams, or other records used in the operator's normal course of business, without cost to the excavator. The excavator shall determine the precise location of the underground facility, without damage, before excavating within two feet of the marked location of the underground facility.

(b) Within 96 hours or the time specified in the notice, whichever is later, after receiving a notice for boundary survey from the notification center, excluding Saturdays, Sundays, and holidays, unless otherwise agreed to between the land surveyor and operator, an operator shall locate and mark or otherwise provide the approximate horizontal location of the underground facilities of the operator, without cost to the land surveyor.

(c) For the purpose of this section, the approximate horizontal location of the underground facilities is a strip of land two feet on either side of the underground facilities.

(d) Markers used to designate the approximate location of underground facilities must follow the current color code standard used by the American Public Works Association.

(e) If the operator cannot complete marking of the excavation or boundary survey area before the excavation or boundary survey start time stated in the notice, the operator shall promptly contact the excavator or land surveyor.

(f) After December 31, 1998, operators shall maintain maps, drawings, diagrams, or other records of any underground facility abandoned or out-of-service after December 31, 1998.

(g) An operator or other person providing information pursuant to this subdivision is not responsible to any person, for any costs, claims, or damages for information provided in good faith regarding abandoned, out-of-service, or private or customer-owned underground facilities.

Subd. 4. **Locating underground facility; excavator or land surveyor.** (a) The excavator or land surveyor shall determine the precise location of the underground facility, without damage, before excavating within two feet on either side of the marked location of the underground facility.

(b) If the excavator or land surveyor cancels the excavation or boundary survey, the excavator or land surveyor shall cancel the notice through the notification center.

(c) The notice is valid for 14 calendar days from the start time stated on the notice. If the activity will continue after the expiration time, then the person responsible for the activity shall serve an additional notice at least 48 hours, excluding Saturdays, Sundays, and holidays, before the expiration time of the original notice, unless the excavator makes arrangements with the operators affected to periodically verify or refresh the marks, in which case the notice is valid for six months from the start time stated on the notice.

(d) The excavator is responsible for reasonably protecting and preserving the marks until no longer required for proper and safe excavation near the underground facility. If the excavator has reason to believe the marks are obliterated, obscured, missing, or incorrect, the excavator shall notify the facility operator or notification center in order to have an operator verify or refresh the marks.

History: *1987 c 353 s 10; 1992 c 493 s 5; 1993 c 341 art 1 s 21; 1997 c 196 s 1; 1998 c 348 s 1-3; 2004 c 163 s 2-6*

216D.05 PRECAUTIONS TO AVOID DAMAGE

An excavator shall:

(1) plan the excavation to avoid damage to and minimize interference with underground facilities in and near the construction area;

(2) use white markings for proposed excavations except where it can be shown that it is not practical;

(3) maintain a clearance between an underground facility and the cutting edge or point of any mechanized equipment, considering the known limit of control of the cutting edge or point to avoid damage to the facility;

(4) provide support for underground facilities in and near the construction area, including during backfill operations, to protect the facilities; and

(5) conduct the excavation in a careful and prudent manner.

History: *1987 c 353 s 11; 1998 c 348 s 4; 2004 c 163 s 7*

216D.06 DAMAGE TO FACILITY

Subdivision 1. **Notice; repair.** (a) If any damage occurs to an underground facility or its protective covering, the excavator shall notify the operator promptly. When the operator receives a damage notice, the operator shall promptly dispatch personnel to the damage area to investigate. If the damage results in the escape of any flammable, toxic, or corrosive gas or liquid or endangers life, health, or property, the excavator responsible shall immediately notify the operator and the 911 public safety answering point, as defined in section 403.02, subdivision 19, and take immediate action to protect the public and property. The excavator shall also attempt to minimize the hazard until arrival of the operator's personnel or until emergency responders have arrived and completed their assessment. The 911 public safety answering point shall maintain a response plan for notifications generated by this section.

(b) An excavator shall delay backfilling in the immediate area of the damaged underground facilities until the damage has been investigated by the operator, unless the operator authorizes otherwise. The repair of damage must be performed by the operator or by qualified personnel authorized by the operator.

(c) An excavator who knowingly damages an underground facility, and who does not notify the operator as soon as reasonably possible or who backfills in violation of paragraph (b), is guilty of a misdemeanor.

Subd. 2. **Cost reimbursement.** (a) If an excavator damages an underground facility, the excavator shall reimburse the operator for the cost of necessary repairs, and for a pipeline the cost of the product that was being carried in the pipeline and was lost as a direct result of the damage.

(b) Reimbursement is not required if the damage to the underground facility was caused by the sole negligence of the operator or the operator failed to comply with section 216D.04, subdivision 3.

Subd. 3. **Prima facie evidence of negligence.** It is prima facie evidence of the excavator's negligence in a civil court action if damage to the underground facilities of an operator resulted from excavation, and the excavator failed to give an excavation notice under section 216D.04 or provide support as required by section 216D.05.

History: *1987 c 353 s 12; 1999 c 43 s 1*

216D.07 EFFECT ON LOCAL ORDINANCES

(a) Sections 216D.01 to 216D.07 do not affect or impair local ordinances, charters, or other provisions of law requiring permits to be obtained before excavating.

(b) A person with a permit for excavation from the state or a public agency is subject to sections 216D.01 to 216D.07. The state or public agency that issued a permit for excavation is not liable for the actions of an excavator who fails to comply with sections 216D.01 to 216D.07.

History: *1987 c 353 s 13*

CHAPTER 7560, EXCAVATION NOTICE SYSTEM
OFFICE OF PIPELINE SAFETY

Table of Parts

Part	Title
7560.0100	DEFINITIONS.
7560.0125	ABANDONED AND OUT-OF-SERVICE FACILITIES.
7560.0150	PUBLIC RIGHT-OF-WAY MAPPING AND INSTALLATION.
7560.0200	[Repealed, 24 SR 448]
7560.0225	EXCAVATOR RESPONSIBILITIES REGARDING A LOCATE.
7560.0250	LOCATE STANDARDS.
7560.0300	OPERATOR PARTICIPATES AND SHARES COSTS.
7560.0325	EMERGENCY EXCAVATION NOTICES.
7560.0350	EXCAVATION NOTICE REQUESTING MEET.
7560.0375	LOCATING A SERVICE LATERAL.
7560.0400	CITATIONS.
7560.0500	RESPONSE OPTIONS.
7560.0600	DIRECTOR REVIEW.
7560.0700	CONSENT ORDER.
7560.0800	CIVIL PENALTIES.

7560.0100 DEFINITIONS

Subpart 1. **Scope.** The terms used in this chapter have the meanings given them. Terms not defined in this part have the meanings given them in Minnesota Statutes, section 216D.01.

Subp. 1a. **Abandoned facility.** "Abandoned facility" means an underground facility that is no longer in service and is physically disconnected from a portion of the operating facility that is in use or still carries service. An abandoned facility has been deemed abandoned by the operator.

Subp. 2. **Director.** "Director" means the director of the Office of Pipeline Safety of the Minnesota Department of Public Safety.

Subp. 3. **Good cause to believe.** "Good cause to believe" means grounds put forth in good faith that are not arbitrary, irrational, unreasonable, or irrelevant and that are based on at least one of the following sources:

A. information from a person;

B. facts supplied by the notification center defined in Minnesota Statutes, section 216D.01, subdivision 8;

C. facts of which the director or an agent of the director has personal knowledge; and

D. information provided by excavators or operators.

Subp. 4. **Locate.** "Locate" means an operator's markings of an underground facility.

Subp. 5. [Renumbered as subp 8]

Subp. 5a. [Renumbered as subp 9]

Subp. 6. [Renumbered as subp 11]

Subp. 7. **Meet.** When used as a noun in this chapter, "meet" refers to a meeting at the site of proposed excavation requested at the time of notice by the excavator with all affected underground facility operators to further clarify the precise geographic location of excavation, schedule locating, propose future contacts, and share other information concerning the excavation and facilities.

Subp. 8. **Office.** "Office" means the Office of Pipeline Safety of the Minnesota Department of Public Safety.

Subp. 9. **Out-of-service facility.** "Out-of-service facility" means an underground facility that is no longer maintained and is not intended for future use, but has not been deemed abandoned. An out-of-service facility may still be connected to a portion of the operating facility that is in use or still carries service.

Subp. 10. **Public right-of-way.** "Public right-of-way" means the area on, below, or above a public roadway, highway, street, cartway, bicycle lane, and sidewalk in which a government unit has an interest, including other rights-of-way dedicated for travel purposes and utility easements of government units.

Subp. 11. **Remuneration.** "Remuneration" means direct or indirect compensation or consideration paid to the person or the person's agent, employer, employee, subcontractor, or contractor. A person who excavates as part of the person's duties as an employee, employer, agent, subcontractor, or contractor is considered to be acting for remuneration.

Subp. 12. **Service lateral.** "Service lateral" means an underground facility that is used to transmit, distribute, or furnish gas, electricity, communications, or water from a common source to an end-use customer. A service lateral is also an underground facility that is used in the removal of wastewater from a customer's premises.

Statutory Authority: *MS s 14.06; 216D.08; 299F.56; 299F.60; 299F.641; 299J.04*
History: *16 SR 135; 24 SR 448; 29 SR 1503*
Published Electronically: *July 20, 2005*

7560.0125 ABANDONED AND OUT-OF-SERVICE FACILITIES

Subpart 1. **Duty of operators to provide readily available information.** Operators shall provide readily available information, as shown on maps, drawings, diagrams, or other records used in the normal course of business, on the approximate location of abandoned and out-of-service facilities to an excavator by the excavation date and time noted on the excavation or location notice unless otherwise agreed between the excavator and the operator. An operator fulfills an obligation to provide information on these facilities by doing one or more of the following:

A. locating and marking the approximate location of the facility according to the current color code standard used by the American Public Works Association, as required in Minnesota Statutes, section 216D.04, subdivision 3, with an abandoned or out-of-service facility identified by an uppercase A surrounded by a circle;

B. providing informational flags at the area of proposed excavation;

C. communicating information verbally; or

D. providing copies of maps, diagrams, or records.

Subp. 2. **Duty to notify operator.** An excavator shall notify the operator:

A. before moving, removing, or otherwise altering a facility that is thought to be abandoned or out of service; or

B. if damage to the facility occurs, pursuant to Minnesota Statutes, section 216D.01, subdivision 2.

Subp. 3. **Verification of abandoned or out-of-service facility.** Upon receipt of notification by an excavator pursuant to subpart 2, an operator shall verify that an underground facility is abandoned or out of service, by either reference to installation records, testing, or other comparable standard of verification, before an excavator is allowed to move, remove, or otherwise alter an underground facility.

Subp. 4. **Liability.** An operator providing information pursuant to Minnesota Statutes, section 216D.04, subdivision 3, is not responsible to any person for any costs, claims, or damages for information provided in good faith regarding abandoned and out-of-service underground facilities.

Statutory Authority: *MS s 14.06; 216D.08; 299J.04; 299F.60*
History: *24 SR 448*
Published Electronically: *July 20, 2005*

7560.0150 PUBLIC RIGHT-OF-WAY MAPPING AND INSTALLATION

Subpart 1. **Duty of operator to map.** After December 31, 2005, an operator shall maintain a map, a diagram, a drawing, or geospatial information regarding the location of its underground facility within a public right-of-way installed after that date.

Subp. 2. **Duty to install locating wire.** After December 31, 2005, an operator shall install a locating wire or have an equally effective means of marking the location of each nonconductive underground facility within a public right-of-way installed after that date. This requirement does not apply when making minor repairs to an existing nonconductive facility. As applied to this chapter, "minor repairs" means repairs to or partial replacement of portions of existing service laterals located within a public right-of-way for purposes of routine maintenance and upkeep.

Statutory Authority: *MS s 299J.04*
History: *29 SR 1503*
Published Electronically: *July 20, 2005*

7560.0225 EXCAVATOR RESPONSIBILITIES REGARDING A LOCATE

Subpart 1. [Repealed, 29 SR 1503]

Subp. 2. **Responsibility to protect and preserve.** The excavator is responsible for reasonably protecting and preserving a locate until no longer required for proper and safe excavation near the underground facility. If the excavator has reason to believe a locate is obliterated, obscured, missing, or incorrect, the excavator shall notify the facility operator or notification center in order to have an operator verify, refresh, or re-mark the locate.

Subp. 3. **Use of locate.** A locate is valid for 14 days from the excavation commencement time stated on the excavation or location notice, unless the excavator has made previous arrangements with the operators affected to periodically verify, refresh, or re-mark the locate.

Statutory Authority: *MS s 14.06; 216D.08; 299J.04; 299F.60*
History: *24 SR 448; 29 SR 1503*
Published Electronically: *July 20, 2005*

7560.0350 EXCAVATION NOTICE REQUESTING MEET

Subpart 1. **Excavator duties.** When requesting a meet through the notification center, an excavator must provide at least one contact name and telephone number to assist in facilitating the meet. An excavator shall contact the notification center to cancel or reschedule the meet and the notification center shall relay this information to the affected operators. When a meet is requested, an excavator's notice must include the entire geographic area of the proposed excavation and the specific location of the meet. This part does not relieve an excavator from the duty to provide a precise geographic location of the proposed area of excavation, or to use white markings except where it can be shown that to do so is not practical.

Subp. 2. **Operator duties.** When a meet is requested, an affected operator shall make a reasonable effort to attend the meet at the proposed date and time, or contact the excavator before the meet and reschedule for a mutually agreed date and time.

Subp. 3. **Excavation start date and time.** When a meet is requested, the meet date and time must be at least 48 hours after notice is provided, excluding Saturdays, Sundays, and holidays, and the excavation start date and time must be at least 24 hours after the proposed meet date and time specified on the notice, excluding Saturdays, Sundays, and holidays. This subpart does not apply if these matters are provided for in a written agreement with all affected operators.

Subp. 4. **Meet request documentation.** An excavator shall maintain written documentation of each meet with an underground facility operator or representative. This documentation must be kept for the duration of the excavation conducted under the notice. The documentation must include:

A. the date and time of each meet;

B. the names, company affiliations, and contact information of the attendees of each meet;

C. a diagram, sketch, or description of the precise excavation locations, dates, and times; and

D. the agreed schedule of any future meets or communications.

Statutory Authority: *MS s 299J.04*
History: *29 SR 1503*
Published Electronically: *July 20, 2005*

7560.0250 LOCATE STANDARDS

Subpart 1. **Facility locate.** Unless otherwise agreed to between the excavator and operator, an operator shall locate an underground facility using stakes, flags, paint, or other suitable materials in varying combinations dependent upon the surface. The locate must be in sufficient detail to clearly identify the approximate route of the underground facility. The locate must also include:

A. name, abbreviation, or logo of the operator when more than one operator listed on the notice uses the same color markings;

B. width of the underground facility if it is greater than eight inches; and

C. number of underground facilities if greater than one.

Subp. 2. **Operator duties in no conflict situation.** After December 31, 2005, an operator who receives notice and determines that an underground facility is not in conflict with the proposed excavation shall complete one or more of the following:

A. mark the area "NO" followed by the operator's name, abbreviation, or logo in the color code of the underground facility not in conflict;

B. place a clear plastic flag at the area that:

(1) states "N/C" or "NO CONFLICT" in lettering matching the color code of the underground facility that is not in conflict; and

(2) includes the operator's name, abbreviation, or logo, the date, a contact telephone number, and the ticket number; or

C. contact the notification center through procedures required by the notification center and indicate that there are no underground facilities in conflict with the proposed excavation and that no markings or flags were left at the proposed excavation site.

Subp. 3. **Placement of flags or markings.** If using N/C (no conflict) flags or markings pursuant to subpart 2, an operator shall place the flags or markings in a location that can be readily observed by an excavator. When an area of proposed excavation is delineated by the use of white markings, an operator shall place the N/C flags or markings within, or as near as practicable to, the delineated area.

Subp. 4. **Duties of notification center.** After December 31, 2005, the notification center shall make the information received under subpart 2 available to the excavator before the start date and time on the notice. The notification center may fulfill this requirement by making the information accessible through one or more Internet addresses, by transmitting the information to a continuously working facsimile machine maintained by the excavator, or by other methodology developed by the notification center. The notification center shall make available the information received by operators pursuant to this section through an electronic means. The notification center is not required by this subpart to contact an excavator verbally via telephone.

Statutory Authority: *MS s 299J.04*
History: *29 SR 1503*
Published Electronically: *July 20, 2005*

7560.0300 OPERATOR PARTICIPATES AND SHARES COSTS

An operator shall participate in and share the costs of the one call excavation notice system by:

A. submitting the information required by the notification center to allow the center to notify the operator of excavation activity;

B. updating the information provided to the notification center on a timely basis;

C. installing and paying for equipment reasonably requested by the notification center to facilitate receipt of notice of excavation from the center;

D. paying the costs charged by the notification center on a timely basis; and

E. receiving and responding to excavation notices, including emergency notices, as required by Minnesota Statutes, chapter 216D.

Statutory Authority: *MS s 14.06; 216D.08; 299F.56; 299F.641*
History: *16 SR 135*
Published Electronically: *July 20, 2005*

7560.0325 EMERGENCY EXCAVATION NOTICES

Subpart 1. **Duty of excavator to provide notice.** An excavator shall provide notice to the notification center before commencing an emergency excavation, unless subpart 2 applies. All emergency notices, regardless whether made prior to excavation, must be verbal or in a manner accepted by the notification center. In addition to the information required by the notification center, the notice must also contain:

A. a description of the situation requiring the emergency excavation;

B. the precise location of the proposed area of the emergency excavation;

C. at least one continuously staffed telephone number where the excavator can be contacted by the operator throughout the emergency; and

D. the excavation start date and time if the need for excavation is not immediate.

Subp. 2. **Excavating before notice.** If an emergency is such that providing notice or waiting for an operator would result in an undue risk to life, health, or significant loss of property, the excavator may excavate without providing prior notice or waiting for an operator to mark an underground facility. In this situation, the excavator shall provide notice as soon as practicable and take all reasonable precautions to avoid or minimize damage. Excavation prior to notice under this subpart does not relieve an excavator from any responsibility for damage to an underground facility pursuant to Minnesota Statutes, section 216D.06.

Subp. 3. **Emergency notice requesting immediate response.** Upon receiving an emergency excavation notice requesting an immediate response, an operator shall:

A. attempt to contact the excavator within one hour at the telephone number provided in subpart 1, item C, to provide any information concerning facilities at or near the area of excavation including an anticipated response time; and

B. locate and mark the underground facility within three hours of notice unless:

(1) otherwise agreed between the parties;

(2) the operator notifies the excavator that not locating does not present an immediate danger to life or health, or a significant loss of property; or

(3) there is an event or situation that cannot be reasonably anticipated or controlled by the operator.

Subp. 4. **Emergency notice requesting scheduled response.** Upon receiving an emergency excavation notice that does not require an immediate response, and before the scheduled excavation start date and time, an operator shall:

A. locate and mark the underground facility, unless otherwise agreed between the parties; or

B. notify the excavator at the telephone number provided in subpart 1, item C, that there is not an underground facility within the area of proposed excavation.

For purposes of this subpart, a requested start time of three hours or less from the time notice is provided to the center is considered an emergency notice requesting immediate response under subpart 3.

Statutory Authority: *MS s 299J.04*
History: *29 SR 1503*
Published Electronically: *July 20, 2005*

7560.0375 LOCATING A SERVICE LATERAL

Subpart 1. **Operator duties.** Unless otherwise agreed, an underground facility operator shall locate a service lateral before the start date and time on the notice and in accordance with items A through C:

A. An operator of a natural gas, propane, or electric facility shall locate a service lateral up to the meter or the connection to a customer's underground facility, whichever is closer to the end-use customer. If the meter or connection to the customer's underground facility is within a public right-of-way, at a minimum the operator shall locate that portion of the service lateral within the public right-of-way up to the point where the service lateral first leaves the public right-of-way.

B. An operator of a communication facility shall locate a service lateral up to the entry of the first building. If the service lateral does not enter a building, the operator shall locate up to the utilization equipment, fence, or wall that surrounds the equipment.

C. After December 31, 2005, an operator of a sewage or water facility, at a minimum, shall locate that portion of the service lateral within a public right-of-way installed after that date up to the point where the service lateral first leaves the public right-of-way. The operator shall either locate or provide information as shown on maps, drawings, diagrams, or other records, on the location of a sewer or water service lateral installed before January 1, 2006. If no information is available on a sewer or water service lateral installed before January 1, 2006, then notifying the excavator that no information exists fulfills the requirements of this section.

Subp. 2. **Exception.** An operator is not required to locate a service lateral of a customer who currently participates in the statewide notification system, provided the customer and operator mutually agree that the customer will assume locate responsibilities. The agreement must be in writing.

Statutory Authority: *MS s 299J.04*
History: *29 SR 1503*
Published Electronically: *July 20, 2005*

7560.0400 CITATIONS

Subpart 1. **Notice of violation.** The office shall issue a notice of probable violation when the office has good cause to believe a violation of Minnesota Statutes, sections 216D.01 to 216D.09 or this chapter has occurred.

Subp. 2. **Contents of notice of violation.** A notice of violation must include:

A. a statement of the statute or rule allegedly violated by the person and a description of the evidence on which the allegation is based;

B. notice of response options available to the person cited;

C. notice that the person has 30 days in which to respond;

D. notice that failure to respond within 30 days precludes administrative review under this chapter; and

E. if a civil penalty is proposed, the amount of the proposed civil penalty and the maximum civil penalty applicable under law.

Subp. 3. **Receipt of notice.** The notice of violation is deemed received three days after mailing to the person's last known address.

Statutory Authority: *MS s 14.06; 216D.08; 299F.56; 299F.60; 299F.641; 299J.04*
History: *16 SR 135; 24 SR 448*
Published Electronically: *July 20, 2005*

7560.0500 RESPONSE OPTIONS

The person shall respond to the notice of violation in the following way:

A. When the notice contains a proposed compliance order, the person shall:

(1) agree to the proposed compliance order;

(2) request the execution of a consent order;

(3) object to the proposed compliance order and submit written explanations, information, or other materials in answer to the allegations in the notice; or

(4) request the office to initiate a hearing under Minnesota Statutes, sections 14.50 to 14.69.

B. When the notice contains a proposed civil penalty, the person shall:

(1) pay the penalty and close the case;

(2) submit an offer in compromise of the proposed civil penalty;

(3) submit a written explanation, information, or other material in answer to the allegations or in mitigation of the proposed civil penalty; or

(4) request the office to initiate a hearing under Minnesota Statutes, sections 14.50 to 14.69.

C. Failure to respond in writing within 30 days precludes administrative review under this chapter. A final order will be issued and penalties will be forwarded for collection.

Statutory Authority: *MS s 14.06; 216D.08; 299F.56; 299F.60; 299F.641; 299J.04*
History: *16 SR 135; 24 SR 448*
Published Electronically: *July 20, 2005*

7560.0600 DIRECTOR REVIEW

If the person objects to the proposed civil penalty or compliance order and submits written explanations, information, or other materials in response to a notice of violation, within the time specified in part 7560.0500, the director shall review the submissions and determine whether to negotiate further, to change or withdraw the notice of violation, or to initiate a hearing under Minnesota Statutes, sections 14.50 to 14.69.

Statutory Authority: *MS s 14.06; 216D.08; 299F.56; 299F.60; 299F.641; 299J.04*
History: *16 SR 135; 24 SR 448*
Published Electronically: *July 20, 2005*

7560.0700 CONSENT ORDER

An executed consent order must contain:

A. an admission by the person of the jurisdictional facts;

B. a waiver of further procedural steps and the right to seek judicial or administrative review or otherwise challenge or contest the validity of the consent order; and

C. an agreement that the notice of violation may be used to construe the terms of the consent order.

Statutory Authority: *MS s 14.06; 216D.08; 299F.56; 299F.641*
History: *16 SR 135*
Published Electronically: *July 20, 2005*

7560.0800 CIVIL PENALTIES

Subpart 1. **Proceedings against excavators.** When the office has good cause to believe that an excavator is engaging or has engaged in conduct that violates Minnesota Statutes, section 216D.04, subdivision 1, 2, or 3; 216D.05, clause (1), (2), (3), or (4); or 216D.06, subdivision 1, or a rule adopted under Minnesota Statutes, section 216D.08, subdivision 4, the office, if appropriate, shall negotiate a civil penalty under Minnesota Statutes, section 216D.08, subdivision 2. A penalty imposed under Minnesota Statutes, section 216D.08, is subject to the contested case and judicial review provisions of Minnesota Statutes, chapter 14. An operator who engages or has engaged in excavation that violates Minnesota Statutes, chapter 216D, is subject to the proceedings specified in subpart 2 and is subject to the penalties specified in subpart 4, item B or C.

Subp. 2. **Proceedings against underground facility operators.** The office may negotiate a civil penalty under item A or B.

A. When the office has good cause to believe that an underground facility operator, other than an operator set forth in item B, is engaging or has engaged in conduct that violates Minnesota Statutes, sections 216D.01 to 216D.07, or a rule adopted under Minnesota Statutes, section 216D.08, subdivision 4, the office, if appropriate, shall negotiate a civil penalty under Minnesota Statutes, section 216D.08, subdivision 2. A penalty imposed under Minnesota Statutes, section 216D.08, is subject to the contested case and judicial review provisions of Minnesota Statutes, chapter 14.

B. When the office has good cause to believe that an operator who engages in the transportation of gas or hazardous liquids or who owns or operates a gas or hazardous liquid pipeline facility is engaging or has engaged in conduct that violates Minnesota Statutes, sections 299F.56 to 299F.641, or a rule adopted under Minnesota Statutes, section 299F.60, subdivision 5, the office, if appropriate, shall negotiate a civil penalty under Minnesota Statutes, section 299F.60, subdivision 2. A penalty imposed under Minnesota Statutes, section 299F.60, is subject to the contested case and judicial review provisions of Minnesota Statutes, chapter 14.

Subp. 3. **Assessment considerations.** In assessing a civil penalty under this part, the office shall consider the following factors:

A. the nature, circumstances, and gravity of the violation;

B. the degree of the person's culpability;

C. the person's history of previous offenses;

D. the person's ability to pay;

E. good faith on the part of the person in attempting to remedy the cause of the violation;

F. the effect of the penalty on the person's ability to continue in business; and

G. past reports of damage to an underground facility by a person.

Subp. 4. **Maximum penalties.** For the purposes of this part, penalties imposed under this part must not exceed the limits in items A to C.

A. Penalties imposed against excavators must not exceed $1,000 for each violation per day of violation.

B. Penalties imposed against underground facility operators, other than an operator set forth in item C, must not exceed $1,000 for each violation per day of violation.

C. Penalties imposed against an operator who engages in the transportation of gas or hazardous liquids or who owns or operates a gas or hazardous liquid pipeline facility must not exceed $10,000 for each violation for each day that the violation persists, except that the maximum civil penalty must not exceed $500,000 for a related series of violations.

Subp. 5. **Payment procedure.** The person shall pay a civil penalty that has been proposed, assessed, or compromised by submitting to the office a check or money order in the correct amount, payable to the commissioner of public safety.

Statutory Authority: *MS s 14.06; 216D.08; 299F.56; 299F.60; 299F.641; 299J.04*
History: *16 SR 135; 24 SR 448*
Published Electronically: *July 20, 2005*

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Subject: Ticket: 163500436
From: mn@gopherstateonecall.org
Date: 12/15/2016 12:11 PM
To: kimw@occinc.com

Gopher State One Call

Your ticket has a legal start date and time of 12/19/2016 12:15 PM.

You must ensure that the entire ticket is correct and that the entire work area is mapped correctly by clicking - HERE. If any information is incorrect, call 1-866-640-3637 or 651-454-0002 or 811.

Mark the excavation area with white paint or flags.

You may check the facility operator Positive Response or update or cancel your ticket by clicking - HERE.

An email with the facility operator responses will be sent to you at the legal start date and time of your ticket.

This ticket is valid for 14 days from the legal start date and time. The expiration date and time is 01/02/2017 12:15 PM .

TICKET SUMMARY

Ticket Number:	163500436	**Old Ticket:**	
By:	mnkimboy	**Source:**	VOICE
Type:	NORMAL	**Date:**	12/15/2016 12:04 PM
	Company Information		
Company:	TEST COMPANY NAME	**Type:**	CONTRACTOR
Address:	12345 TEST STREET TEST CITY, MN 12456		
Caller:	KIM BOYD	**Phone:**	(555) 555-5555
Contact:	FIELD CONTACT	**Phone:**	(555) 555-5555
Company Phone:	(555) 555-5555	**Comany Fax:**	(866) 811-2644
Email Address:	kimw@occinc.com		
	Work Information		
State:	MN	**Work Date:**	12/19/2016 12:15 PM
County:	AITKIN	**Work Being Done For:**	KIM BOYD
Place:	WEALTHWOOD TWP		
Street:	1234 385TH AVE		
Intersection:	240TH ST		
Type of Work:	INSTALL IRRIGATION SYSTEM - TEST		
Explosives:	N	**Tunnel/Bore:**	N
R.O.W.:	N	**Duration:**	2 DAYS
Area Marked:	Yes		

Remarks Information

Location of Work:

FROM 240TH ST GO SOUTH ON 385TH AVE APPX 2 MILES TURN AND GO EAST APPX 1 MILE TO SITE MARKED WITH A WHITE FLAG ON N SIDE OF ROAD. MARK A 100FT RADIUS OF FLAG.

JOB #: 12345

MARK WITH PAINT AND FLAGS.

FACILITY OPERATORS NOTIFIED

Code	COMPANY NAME	Phone
TEST01	ONE CALL CONCEPTS	(651)681-5700
TEST03	ONE CALL CONCEPTS	(651)681-5700

EXCAVATOR RESPONSIBILITIES

- It is your responsibility to determine which facility operators have responded to the ticket. For questions concerning facility operator responses to your ticket contact them directly via their phone number on the ticket.
- You can refresh the markings by going to HERE to request an Update.
- Keep your ticket current; update if necessary at least 48 hours before the expiration date and time of your ticket, excluding weekends and holidays by clicking HERE to request an Update.
- Use safe excavation practices. Maintain the minimum safe tolerance zone. If a damage occurs keep yourself and those around you safe. Call 911 if you strike gas, propane, hazardous liquids or if there is the possibility of risk to persons and property. Call the facility operator to report the damage. Do not repair your own damage.
- Inspect the excavation area for private facilities that are not marked with a call to Gopher State One Call. More information about private facilities can be found at private facilities.

Gopher State One Call Locate Request

NEW

Ticket Number:	163500436	Old Ticket:	
By:	mnkimboy	Source:	VOICE
Type:	NORMAL	Date:	12/15/2016 12:11 PM
Send To:	TEST01	Sequence:	1

Company Information

TEST COMPANY NAME
12345 TEST STREET
TEST CITY, MN 12456

Type: CONTRACTOR

Caller:	KIM BOYD	Caller Phone:	(555) 555-5555
Contact:	FIELD CONTACT	Contact Phone:	(555) 555-5555
Company Phone:	(555) 555-5555	Company Fax:	(866) 811-2644
Company Email:	kimw@occinc.com		

Work Information

State:	MN	Work Date:	12/19/2016 12:15 PM
County:	AITKIN	Done For:	KIM BOYD
Place:	WEALTHWOOD TWP		
Street:	1234 385TH AVE		
Intersection:	240TH ST		
Type of Work:	INSTALL IRRIGATION SYSTEM - TEST		
Explosives:	No	Tunnel/Bore:	No
Right of Way:	No	Duration:	2 DAYS
Area Marked:	Yes		

Remarks Information

FROM 240TH ST GO SOUTH ON 385TH AVE APPX 2 MILES TURN AND GO EAST APPX 1 MILE TO SITE MARKED WITH A WHITE FLAG ON N SIDE OF ROAD. MARK A 100FT RADIUS OF FLAG.
JOB #: 12345

MARK WITH PAINT AND FLAGS.

Link To Map_LINK for TEST01: http://mn.itic.occinc.com/BR2G-VSR-R2H-Z6H

Facility Operators

Code	Name	Phone Number
TEST01	ONE CALL CONCEPTS	(651) 681-5700
TEST03	ONE CALL CONCEPTS	(651) 681-5700

Location

Number of Excavation Locations: 1
Coordinates for each location:
Loc 1 : NW Lat: 46.333736 Lon: -93.635046 SE Lat: 46.329913 Lon: -93.629509
T 45N R 26W S 33 Q SW T 45N R 26W S 33 Q SE T 44N R 26W S 4 Q NW
T 44N R 26W S 4 Q NE

City of Albert Lea Right of Way Permit

221 E. Clark Street, Albert Lea, MN 56007 507-377-4325 Fax: 507-377-4336

Applicant _____
Person Performing Work _____
Address: _____
Contact Name & Phone No. : _____
Email Address: _____

Property Owner _____
Address – Location _____
Lot: _____ Block: _____
Parcel ID: _____
Email Address: _____

Permit Requested

☐ Street/Alley Obstruction
☐ Boulevard Construction
☐ Construction Noise Ord.
☐ Sidewalk Construction
☐ Driveway Construction
☐ General Utility (gas, electric, phone, cable, etc.)

*** 2 year warranty for all work**

OFFICE USE ONLY

Permit is Valid

_____ to _____

Permit # _____

Pmt. Date _____
(if applicable)

Described Work to be Performed

_____

_____

Work Schedule Work to commence on/after _____ Work to be completed by _____
Traffic (if applicable) Street closure on _____ Reopen street by _____
☐ Detouring route _____

Installation Methods ☐ Open Trench ☐ Boring ☐ Jacking ☐ Other _____

Installation Materials
_____ Plastic Pipe _____ Sanitary Service ☐ Plastic ☐ Clay ☐ Cast Iron
_____ Subdrain _____ Storm Sewer _____ Copper Water Service _____ Ductile Iron
_____ Fiber Optic _____ Coaxial Cable _____ Copper/Plastic Gas Line _____ Copper Wire
Concrete ☐SW ☐DW _____ Bituminous Path _____ Other Material _____

Installation Location/Size _____ Width/Diameter _____ Length of Installation _____ Depth
☐ Blvd to Building ☐ Main to Blvd ☐ Other _____
Installation Purpose ☐ New Installation ☐ Replacement ☐ Repair ☐ Disconnect/Abandon
Restoration Areas ☐ Curb & Gutter ☐ Sidewalk ☐ Roadway ☐ Blvd/Vegetation
Service Area Stubbed Beyond Curb Box ☐

Permit Issuance
Owner/Applicant's Signature (Utility Permits Only) _____ Date _____
Contractor's Signature (Utility Permits Only) _____ Date _____
Owner/Applicant/Contractor Notes: _____

_____

City Signature _____ Date _____
City Notes: _____

_____

_____

Owner, Applicant, Contractor hereby agrees to comply with the ordinances of the City of Albert Lea and the engineering standards of the Public Works Department, regulations of the State of Minnesota and the Federal Government and agree to fully comply with the satisfaction of the City Engineer and also agrees to the additional requirements/regulations, noted on page 2 of this permit, and is responsible for signing per MN MUTCD ADA Compliant.

RECEIPT
☐ Street/Alley Obstruction
☐ Boulevard Construction
☐ Construction Noise Ord.
☐ Sidewalk Construction
☐ Driveway Construction
☐ General Utility (gas, electric, phone, cable, etc.)

Permit No. _____

Valid from _____ to _____

Applicant _____

Entered By _____

City of Albert Lea Right of Way Permit Regulations

Note: *The following regulations apply to and are conditions of the permit issued as a result of this application.*

GENERAL

1. The permit is revocable in nature. If the City shall make any improvements or change on all or part of its ROW which impacts Applicant's installation, then and in every case the applicant herein named shall, after notice from the City or its authorized agents, proceed to alter, change, vacate or remove from ROW said installation necessary to conform with said changes. Any work performed by the Applicant as a result of City's ROW-modification shall be at Applicant's sole cost and expense.
2. The Applicant shall assume all liability for, and save the City, its agents and employees, harmless from, any and all claims for damages, actions or causes of action arising out of the work to be done herein and the continuing uses by the Applicant, including but not limited to the placing, construction, reconstructing, maintaining and using of said utility under this application and permit.
3. ROW shall be cleaned up after work is completed.
4. No work shall be done in such a manner as to create or maintain a nuisance.
5. After Applicant completes its work in the ROW, Applicant must notify the City Engineer within 2 working days that such work has been completed and is ready for final inspection. Call City Engineering Department at 507-377-4325 for an inspection request.
6. A certified check or deposit may be required to ensure proper restoration of surfaces and to cover payment for any damage to street or public property.
7. Permittee warrants all work, including settlement of backfill, for 2 years.

SAFETY

1. Applicant shall erect safety devices for the protection of the work and the safety of the public that conform to the requirements of the Manual of the Uniform Traffic Control Devices.
2. Blasting is not permitted unless prior approval is given by the City.
3. For trenching operations it is Applicant's responsibility to be familiar with and follow the provisions of the Department of Labor and Industry Occupational Safety and Health Rules.
4. Contractor shall notify area utilities through the state wide Gopher One Call 800-252-1166 prior to any excavation.
5. Permittee agrees to abide by the MUTCD traffic standards.

ROADWAY, SIDEWALK, AND BOULEVARD REPLACEMENT

1. Installation of pipe under concrete or high type bituminous pavements shall be done by jacking or boring unless trenching is specifically permitted in the Special Provision of the Permit.
2. All backfilling must be placed in layers and thoroughly tamped and material must be flush and even with the surface when finally in place.
3. All surfaces shall be restored to original conditions.
4. All surfaces shall be restored by the Contractor with the exception of street surfaces which will be replaced by the Department of Public Works and charged to the Contractor at current Revised Street Opening Rates, approved by the City Council.
5. If settlement occurs or the excavation caves in so that replacement materials settle at any time, or if the roadway surface deteriorates or fails to serve as well as the original surface, within a period of two years after the completion of this project, it shall be repaired and replaced by the Applicant.

MAPPING

1. Permittee agrees to provide electronic copies or hard copies and as built constructed information for the project to Public Works.

Application for ROW-Underground/Aerial Permit

Permit#: **2018-G730**
Status: Active
Street: EMERSON AVE

City of Bloomington MN Utility/ROW
City of Bloomington Utilities Division
1800 W Old Shakopee Rd
Bloomington MN 55431
952-563-8777

Applicant		Company of Applicant		Contractor	
Name:	Kim . Ignatowicz	**Name:**	CenterPoint Energy	**Name:**	Michels Contracting
Title:	Engineering Assistant	**Address:**	700 W Linden Ave Minneapolis, MN 55440-1165	**Address:**	22100 Pillsbury Ave Lakeville , MN 55044
Phone:	(612) 321-5325	**Phone:**	(612) 321-5325	**Phone:**	(612) 321-5325
Email:	kimberly.ignatowicz@centerpointenergy.com	**Fax:**	(612) 321-5480	**Email:**	kimberly.ignatowicz@centerpointenergy.com
		Certificate of Insurance:	COI for the City of Bloomington.pdf		
		Performance Bond:	COI for the City of Bloomington.pdf		

Construction Dates

Start: 07/23/2018 **End:** 10/01/2019

Underground

Conduit/casing type:	Polyethylene (PE)
Underground type:	Natural Gas
Method of installation:	Horizontal Direction Drilling (HDD)
Trench size:	AS NEEDED
Depth:	3'

Payment method

Credit Card

Payment details

ROW Hole/Trench Base	$208.00
ROW Permit Processing Fee	$36.00
ROW Potholing	$52.00
ROW Potholing Addl	$294.00
ROW Underground Per Ft	$760.06
Total:	$1,350.06

Description or Work & New or Existing

SAP# 86767774 - MGC# 18-3900 - CONTACT TJ HAIDER 612-321-5132 - REPLACE EXISTING GAS MAIN & SERVICES

General Location or Site Address

EMERSON AVE FROM 83 ST TO 84 1/2 ST

Site(s)

Street	Length in Feet	From	To	Relative to Road Surface
EMERSON AVE	852	83 ST	84 1/2 ST	Pavement & Boulevard

86767774 BLOOMINGTON.pdf

Special provisions:

- * Contact Tim Groff at (desk) 952-563-4568 or (cell) 952-292-8000 at least 24 hours PRIOR to construction. Failure to contact shall be considered a violation of the permit and grounds for dismissing contractor from job site.
- * If all work under this permit is completed, click the green flag icon in Permit view to change the status to 'Ready for Inspection'.
- * Installers to Provide open cut windows (pothole) over All City of Bloomington Utility crossings. Pothole is to be at the boring depth to visually see boring tool cross City Utility.
- * Applicant shall adhere to a construction depth of 3-4 ft. Any deviation from this depth will require prior consent from the City.
- *All junction boxes or access points shall be located no closer than ten feet from city hydrants, valves, manholes, lift stations or catch basins unless an alternate location is approved by the city.
- * Place new UNDERGROUND Facilities no closer than 5 ft. from any Water Gate Valve, Hydrant or Water Service connection.
- *Underground facilities shall not be installed between a hydrant and an auxiliary valve.
- * Any Deviation of Original plan requires prior consent from City.
- * All restoration Shall be equal to or Better than original.
- * All signage, stormwater inlet protection, and other construction related materials must be removed in a timely fashion at end of construction.
- *Any sidewalk removal will require a temporary repair if a permanent restoration is to be delayed. Full panel replacement required.
- *Use of Pneuma Gopher not Permitted**

Notes:

No notes

General

- The completion of a Utility/ROW Permit Application DOES NOT give the Applicant approval to begin work. You will receive notificaton by email when your application has been approved.

Right-of-Way

- 1) All applicants for Right-of-Way Permits shall comply with ARTICLE IV. RIGHT-OF-WAY MANAGEMENT AND LOCATING OF UNDERGROUND FACILITIES of the Bloomington City Code.
  2) City of Bloomington Traffic Control and Erosion Control standards must be followed. A Traffic Control plan must be submitted with application.
  3) HDD Contractors shall provide open cut windows over all City of Bloomington Utility crossings and verify depths using only Minnesota Office of Pipeline Safety approved methods.
  4) Contact Tim Groff at 952-563-4568 24 HOURS PRIOR TO COMMENCEMENT OF WORK.
- Any sidewalk removal will require a temporary repair if a permanent restoration is to be delayed

RIGHT-OF-WAY PERMIT APPLICATION

Permit No._____

Date:_____

City of Hutchinson
Public Works
111 Hassan St SE
Hutchinson, MN 55350
Phone: 320-234-5682
Fax: 320-234-4240

Office Use Only

City PID: _____ Lot:_____ Block:_____

Addition**:**_____ Zone D. _____

Inspections Required

Utility Connection ☐
Small Wireless ☐
Excavation ☐
Final ☐

Total Fees $_____

***Check appropriate box*:** ☐ **City Utility/Drainage Connection - $35.00** ☐ **Small Wireless Facility/per location - $1500.00**

☐ **Excavate Less than 5,000 sq. ft. - $35.00** ☐ **Excavate 5,000 sq. ft. to one (1) acre - $100.00** ☐ **Excavate One (1) to five (5) acres - $200.00**

☐ **Excavate Greater than five (5) acres - $300.00** ☐ **Linear Project - per 1000 linear ft. - $50** ☐ **Obstruction - $50**

Applicant: _____ Direct Phone: _____
Cell Phone: _____

Address: _____ Email: _____

Company Name: _____ Company Phone: _____
Company Fax: _____

Billing Address: _____

City: _____ State: _____ Zip: _____

Gopher State One Call Registration Number: _____ Emergency Contact Phone: _____

Project Location *(describe specific sites on page two, if multiple sites)*: _____

Description of Work *(attach additional pages if needed):* _____

_____

Construction Start Date: _____ Completion Date: _____

Site Plan (for Small Wireless Facility applications refer to pages 2-6): Attach a site plan showing location of disturbed right-of-way areas, drainage arrows indicating flow direction and best management practices used to prevent contaminated runoff from discharging to City infrastructure. Also, include narrative descriptions of any site specific considerations including type of final stabilization, inlet protection, perimeter protection, concrete washout, and methods used for right-of-way restoration, etc.

Important: Notify City of Hutchinson Public Works Department at (320)234-5682 24 hours in advance of beginning work and upon completion of work in the right-of-way.

*Minnesota Statute Chapter 216D requires that the EXCAVATOR must call **GOPHER STATE ONE-CALL** at **1-800-252-1166** at least 48 hours before beginning excavation. Hand digging is required when excavating within two f*eet of the markings.

By signing this application, I (the applicant/company) hereby acknowledge that I must adhere to all provisions of City of Hutchinson Code of Ordinances and any other applicable ordinances, including MN Statutes 237.162 and 237.163, in addition to the terms and conditions which are attached to this document. The applicant shall also comply with the regulations of all other governmental agencies for the protection of the public.

_____ Date: _____
Signature of Applicant

This is an application only. Permit will be issued after City approval and payment of fees.

_____ Date: _____
Authorized Approval Signature Approval Date

SMALL WIRELESS FACILITY DOCUMENT SUBMITTAL REQUIREMENTS

- ☐ Permit Fee
- ☐ Structural Study
- ☐ (1) set of construction plans signed by a Professional Engineer and (1) electronic copy
- ☐ Radio Frequency/Propagation Study
- ☐ Copy of permit and executed colocation/lease agreement from Wireless Support Structure owner if owned by an agency other than the City (if applicable)
- ☐ Design Plan/Route for backhaul facilities, signed by a Professional Engineer
- ☐ Equipment/Product Data Sheets
- ☐ Project Schedule
- ☐ Project contact information, if different then information included in application

SITE SUMMARY

In accordance with MN Statutes 237.162 and 237.163, applicant may collocate up to 15 small wireless facilities if they are within a two-mile radius, consist of substantially similar equipment, and are to be placed on similar types of wireless support structures.

SITE #	DESCRIPTION	PERMIT FEE ($1,500/UNIT)
01		
02		
03		
04		
05		
06		
07		
08		
09		
10		
11		
12		
13		
14		
15		
	TOTAL PERMIT FEE DUE FOR ALL LOCATIONS	**$**

SMALL WIRELESS FACILITY RIGHT-OF-WAY PERMIT TERMS AND CONDITIONS

I. INSTALLATION OF EQUIPMENT

A. Permits

1. Right-of-Way Small Wireless Facility Permit: Prior to the approval of installation of equipment, APPLICANT shall submit to the City Engineer or designee, a sketch of the proposed location for the new equipment ("Equipment Plan"). If upon preliminary review, the proposed location and Equipment Plan is deemed acceptable by the City Engineer or designee, the APPLICANT may make a Right-of-Way Small Wireless Facility Permit Application.

2. The Right-of-Way Small Wireless Facility Permit Application shall include the following:

    1. Completed permit application and fee.
    2. Proof of insurance (upon request by the City of Hutchinson)
    3. Construction plans as described in paragraph B below
    4. Structural study described in paragraph B below
    5. Design plan and/or route for backhaul facilities, signed by a P.E.
    6. Copy of permit from Wireless Support Structure owner if owned by an agency other than the City of Hutchinson (if applicable)
    7. Equipment/product data sheets
    8. Project schedule
    9. Project contact information, if different then information included in application

3. APPLICANT must obtain a radio frequency interference study carried out by an independent professional radio frequency engineer ("RF Engineer") showing that APPLICANT's intended use will not interfere with any existing, licensed communications facilities, as well as CITY's licensed and unlicensed communications facilities, which are located on or near the structure. The RF Engineer shall provide said evaluation no later than forty-five (45) days after frequencies are provided by CITY. APPLICANT shall not transmit or receive radio waves at the Premises until such evaluation has been satisfactorily completed.

    Upon Request of CITY, APPLICANT shall hire an RF Engineer to conduct a radiation survey of the Premises following APPLICANT's initial RF transmissions. APPLICANT shall be responsible for all costs of such survey.

    APPLICANT shall implement all measures at the transmission site required by FCC regulations, including but not limited to posting signs and markings. CITY shall cooperate with APPLICANT to fulfill its Radio Frequency exposure obligations. CITY agrees that in the event any future party causes the entire site to exceed FCC Radio Frequency radiation limits, as measured on the Premises, CITY shall hold such future party liable for all such later-arising non-compliance.

4. Other City Permits: In addition to the Right-of-Way permit, which is only approved to attach equipment to a Wireless Support Structure, the APPLICANT must apply for any additional permits for all appurtenant equipment or facilities required for the Right-of-Way Small Wireless Facility Application. Said permits may include, but not necessarily by limited to: Right-of-Way excavation; Electrical, Stormwater, etc.

5. Other Applicable Permits: It is the APPLICANT's responsibility to determine if permits are required by governmental agencies and apply for those permits.

6. Applicable fees for all permits shall be borne by the APPLICANT and the APPLICANT shall be bound by the requirements of said permits.

B. Construction Plans

For Right-of-Way Small Wireless Facility Permit application, or additions thereto, APPLICANT shall provide CITY's City Engineer or designee as set forth in Section I. a., each with two (2) sets of construction plans ("Construction Plans") consisting of the following:

1. CAD drawings showing the location and materials of all planned installations, including field verified existing utilities, traffic control plan (as applicable);

2. Structural Study as described in Section A.2 above;

3. Construction Specifications and Product Specifications for all planned installations;

4. Diagrams and Shop Drawings of proposed Antenna Facilities;

5. A complete and detailed inventory of all equipment and personal property of APPLICANT actually placed on the Premises. CITY retains the right to survey the installed equipment.

6. Photo simulations from at least two reasonable line-of-site locations near the proposed project site.

7. Aerial map showing the location of the proposed or existing wireless support structure to which the small wireless facility is proposed to be attached.

Construction Plans shall be easily readable and no construction shall commence until permit is granted by the City Engineer or designee. Final Plans shall have affixed to them the signature of the APPLICANT's Engineer who shall be licensed in Minnesota pursuant Minnesota Rule 1800.4200 and Minnesota Statutes Chapter 326.

C. Construction Inspection

All construction activity shall be subject to inspection and approval by the CITY's representative(s). Inspection will be performed at project completion APPLICANT shall be solely responsible for all costs, in excess of those included in the permit fee, associated with said inspection and approval of construction work by CITY.

D. Exposed Antenna Facilities

All Antenna Facilities affixed to the Wireless Support Structure in the Right-of-Way which have exterior exposure, APPLICANT shall match the color of the Wireless Support Structure. CITY shall require that cables, wires or appurtenances be routed inside the Wireless Support Structure whenever possible. Cables, wires or appurtenances that cannot be routed inside the Wireless Support Structure shall be placed in conduit, which shall match the color of the Wireless Support Structure.

E. Damage by APPLICANT

Any damage to the Right-of-Way, or CITY's equipment thereon caused by APPLICANT's permitted installation or operations shall be repaired or replaced at APPLICANT's expense and to CITY's reasonable satisfaction in accordance with City standards.

F. As-Built Drawings ("As-Built" or "As-Builts")

Within thirty (30) days after APPLICANT activates the Antenna Facilities, APPLICANT shall provide CITY with an As-Built drawing in CAD format consisting of As-Built drawings of the Antenna Facilities installed on each permitted location and any improvements installed on the Premises, which shall show the actual location of all equipment and improvements. Said drawings shall be accompanied by a complete inventory of all equipment and Antenna Facilities.

II. MAINTENANCE AND REPAIR OF EQUIPMENT

A. City owned Wireless Support Structure and ROW Maintenance

CITY reserves the right to take any action it deems necessary, in its sole and reasonable discretion, to repair, maintain, alter, or improve the Right-of-Way in connection with CITY's Operations. The CITY retains the right to shut off power for the Antenna Facilities at the source in any and all cases of emergency.

B. Wireless Support Structure Reconditioning and Repair

1. From time to time, CITY paints, reconditions, or otherwise improves or repairs the wireless support structure in a substantial way ("Reconditioning Work"). APPLICANT shall cooperate with CITY to carry out Reconditioning Work activities in a manner that minimizes interference with APPLICANT's Approved Use.

2. Except in cases of emergency, prior to commencing Reconditioning Work, CITY shall provide APPLICANT with not less than thirty (30) days prior written notice thereof. Upon receiving such notice, it shall be the sole responsibility of APPLICANT to provide adequate measures to cover or otherwise protect APPLICANT's Antenna Facilities from the consequences of such activities, including but not limited to paint and debris fallout. CITY reserves the right to require APPLICANT to remove all Antenna Facilities from the Structure and Right-of Way during Reconditioning Work.

3. During CITY's Reconditioning Work, APPLICANT may request a mobile site on the Right-of-Way. If site will not accommodate mobile equipment, it shall be APPLICANT's responsibility to locate auxiliary sites.

C. Relocation of Wireless Support Structure or Supporting Appurtenances

When directed by the City a right-of-way user shall relocate all of its facilities within the Right-of Way according to City of Hutchinson City Code, Chapter 90 RIGHT-OF-WAY MANAGEMENT, as amended from time to time.

III. CONDITION OF WIRELESS SUPPORT STRUCTURE

The CITY will keep and maintain it's own wireless support structures in good repair as required for their Primary Use and in the ordinary course of business as its budget permits. CITY makes no guarantee as to the condition of any wireless support structures with regard to APPLICANT's intended use.

APPLICANT shall, at its own cost and expense, maintain the Antenna Facilities in good and safe condition, and in compliance with applicable fire, health, building, and other life safety codes. The APPLICANT shall obtain from the CITY any and all permits required for the purposes of maintaining the installation. Applicable fees for any permits shall be borne by the APPLICANT and the APPLICANT shall be bound by the requirements of said permits.

IV. INDEMNIFICATION

APPLICANT shall, to the extent permitted by law, indemnify and hold CITY harmless against any claim of liability or loss from personal injury or property damage resulting from or arising out of the negligence or willful misconduct of the APPLICANT, its employees, contractors or agents, except to the extent such claims or damages may be due to or caused by the negligence or willful misconduct of the CITY, or its employees, contractors or agents.

V. INSURANCE

A. Worker's Compensation: The APPLICANT must maintain Workers' Compensation insurance in compliance with all applicable statutes including Minnesota Statute §466.04. The policy shall also provide Employer's Liability coverage with limits equal to or greater than the City's liability exposure as contained in Minnesota Statute §466.04.

B. General Liability: The APPLICANT must maintain occurrence form commercial general liability coverage.

1. Such coverage shall include, but not be limited to, bodily injury, property damage – broad form, and personal injury, for the hazards of Premises/Operation, broad form contractual liability, property damage liability, and independent contractors.

2. The APPLICANT must maintain aforementioned commercial general liability coverage with limits of liability equal to or greater than the City's liability exposure as contained in Minnesota Statute §466.04. These limits may be satisfied by the commercial general liability coverages.

3. APPLICANT will maintain Completed Operations coverage for a minimum of two (2) years after the construction is completed at the same level required when construction began.

C. Automobile Liability: The APPLICANT must carry Automobile Liability coverage. Coverage shall afford total liability limits for Bodily Injury Liability and Property Damage Liability in the amount equal to or greater than the City's liability exposure as contained in Minnesota Statute §466.04. The liability limits may be afforded under the Commercial Policy, or in combination with an Umbrella or Excess Liability Policy provided coverage of rides afforded by the Umbrella Excess Policy are not less than the underlying Commercial Auto Liability coverage.

1. Coverage shall be provided by Bodily Injury and Property Damage for the ownership, use, maintenance or operation of all owned, non-owned and hired automobiles.

2. The Commercial Automobile Policy shall include at least statutory personal injury protection, uninsured motorists and underinsured motorists coverages.

D. APPLICANT Property Insurance: The APPLICANT must keep in force for the duration of the Permit a policy covering damages to its property in the Right-of-Way. The amount of coverage shall be sufficient to replace the damaged property, loss of use and comply with any ordinance or law requirements.

E. Adjustment to Insurance Coverage Limits: The APPLICANT's coverage limits set forth herein shall be increased at the time of any Renewal Term by twenty-five percent (25%) over the preceding term or Renewal Term. Alternatively, instead of such

periodic coverage limit increases, during the entire term of this Agreement, APPLICANT may maintain an umbrella or excess liability insurance policy with a combined single limit equal to or greater than the City's liability exposure as contained in Minnesota Statute §466.04 per occurrence, and CITY will be named as an additional insured under such policy.

F. Additional Insured – Certificate of Insurance: The APPLICANT shall provide, prior to tenancy, evidence of the required insurance in the form of a Certificate of Insurance issued by a company (rated B+ (VIII) or better), licensed to do business in the State of Minnesota, which includes all coverage required in this Section 13. **APPLICANT will list the CITY as an Additional Insured on the General Liability and Commercial Automobile Liability Policies.** The Certificate(s) shall also provide the coverage may not be cancelled, non-renewed, or materially changed without thirty (30) days prior written notice to the CITY.

G. Defense and Indemnification: APPLICANT agree to defend, indemnify, and hold harmless CITY and its elected officials, directors, officers, employees, agents, and representatives, from and against any and all claims, costs, losses, expenses, demands, actions, or causes of action, including reasonable attorneys' fees and other costs and expenses of litigation, which may be asserted against or incurred by CITY or for which CITY may be liable in the performance of this Agreement, except those which arise solely from negligence or willful misconduct of CITY, its elected officials, directors, officers, employees, agents, representatives or contractors.

APPLICANT shall defend, indemnify, and hold CITY, its agents, employees and officials harmless against all claims arising out of APPLICANT's use of the Right-of-Way, including its installation, operation, use, maintenance, repair, removal, or presence of APPLICANT's facilities, structures, equipment or other types of improvements, including Antenna Facilities, in the Right-of-Way except to the extent arising from or related to the sole negligence or willful misconduct of CITY, its elected officials, officers, employees, agents, and representatives.

VI. LIMITATION OF LIABILITY

CITY shall not be liable to the APPLICANT, or any of its respective agents, representatives, employees for any lost revenue, lost profits, loss of technology, rights or services, incidental, punitive, indirect, special or consequential damages, loss of data, or interruption or loss of use of service, even if advised of the possibility of such damages, whether under theory of contract, tort (including negligence), strict liability or otherwise.

VII. INTERFERENCE

APPLICANT agrees to install equipment of the type and frequency which will not cause harmful interference which is measurable in accordance with then existing industry standards to any equipment of CITY or other APPLICANTs of the Premises which existed on the Premises prior to the data this Agreement is executed by the Parties. In the event any after-installed APPLICANT's equipment causes such interference, and after CITY has notified APPLICANT in writing of such interference, APPLICANT will take all steps necessary to correct and eliminate the interference, including but not limited to, at CITY's option, having the APPLICANT power down its equipment and later power up its equipment for intermittent testing.

VIII. REMOVAL AT END OF TERM OR UPON PERMIT REVOCATION

APPLICANT shall, within ninety (90) days after any termination of this Permit, remove its equipment, conduits, fixtures and all personal property and restore the Premises to its original condition, reasonable wear and tear expected. CITY agrees and acknowledges that all of the equipment, conduits, fixtures and personal property of APPLICANT shall remain the personal property of APPLICANT and APPLICANT shall have the right to remove the same at any time during the Term. All poles, conduit and pole boxes are and shall remain property of the CITY. If such time for removal causes APPLICANT to remain on the Premises after termination, APPLICANT shall pay rent at the then existing monthly rate or on the existing monthly pro-rata basis until such time as the removal of the antenna structure, fixtures and all personal property are completed. All rentals paid prior to said termination date shall be retained by CITY.

IX. CASUALTY

In the event of damage or casualty to the Wireless Support Structure that cannot reasonably be expected to be repaired or replaced due to winter frost conditions, or if the Wireless Support Structure is damaged so that such damage may reasonably be expected to disrupt APPLICANT's operations for more than 120 days, then APPLICANT may, provided CITY has not completed the restoration or replacement of the Wireless Support Structure terminate the Permit upon fifteen (15) days prior written notice to CITY.

Form No. 2962
BUSINESS RECORDS CORPORATION
MINNESOTA

COUNTY OF COTTONWOOD
DEPARTMENT OF PUBLIC WORKS

APPLICATION FOR UTILITY PERMIT ON COUNTY HIGHWAY RIGHT OF WAYS

Board of County Commissioners
Windom, Minnesota
Attn: County Highway Engineer

C.S.A.H _____
C.R _____

Application is hereby made for permission to place, construct and thereafter maintain a _____ _____along or across County Highway No._____from _____ _____ to _____feet from center line on the_____(east, west, north or south) side of County Highway in accordance with the sketch shown on the inside hereof, or attached thereto.

I. AERIAL CONSTRUCTION

- ☐ Single Pole
- ☐ H-Frame
- ☐ Single Pole and H-Frame
- ☐ Steel Tower
- ☐ Other _____

- ☐ Open Wire
- ☐ Cable
- ☐ Vertical
- ☐ Cross-arm
- ☐ Vertical and Cross-arm

VOLTAGE	NUMBER OF CONDUCTORS	SIZE OF CONDUCTORS

Minimum height of conductor:_____ft. along highway_____ft. at crossing over highway

EXTENT AND LOCATION OF TREE CLEARING:

II. UNDERGROUND CONSTRUCTION

CONDUIT

- ☐ Multiple Tile
- ☐ Transite
- ☐ Clay Tile
- ☐ Sectional Concrete
- ☐ Steel Pipe
- ☐ Other _____

CASING

- ☐ Steel Pipe
- ☐ Sectional Concrete
- ☐ Other _____

SIZE	DEPTH

VOLTAGE	NUMBER OF CONDUCTORS	SIZE OF CONDUCTORS

METHOD OF INSTALLING UNDER ROADBEDS (if open trench, explain why necessary)

- ☐ Open Trench _____
- ☐ Jacking
- ☐ Boring
- ☐ Pneuma Gopher

EXTENT AND LOCATION OF TREE CLEARING:	**New Facility**	Replacement Facility
	☐	☐

III. Work to start on or after_____and to be completed on or before_____.

IV. The applicant in carry on any and all of the work herein above mentioned or referred to in its application and in the Permit issued herefore, shall strictly conform to the terms of such Permit, and the regulations of the Board of County Commissioners, as set forth herein together with the Special Provisions, all of which are made a part hereof. The applicant specifically agrees to be bound hereby. The applicant shall also comply with the regulations of all other governmental agencies for the protection of the public. The work shall be accomplished in a manner that will not be detrimental to the highway and that will safeguard the public.

Date this_____day of_____, 20 ____

_____
Name of Company making application (Utility)

Signature _____

By _____
Title

Address _____

Fax Number _____

Email _____

Contractor _____

C-50
Contractor Contact Info

DEFINITIONS

Utility. Under this order "utility" shall mean and include all privately, publicly or co-operatively owned communication lines and facilities, any systems, lines and facilities for the distribution and transmission of electrical energy, oil, gas, water, sewer, steam and other pipe lines, railways, ditches, flumes or other structures which under the laws of this State or the ordinance of any town or city may be constructed, placed or maintained across, along or on county highway right of way. Dependent upon the meaning intended in the context, "Utility" shall also mean the utility company, inclusive of any wholly owned subsidiary.

GENERAL

I. Except as otherwise permitted, utility construction and relocation on county highway right of way shall not be commenced until an application for Permit has been made and such Permit granted. The Permit sketch shall show the location of the proposed utility with reference to county highway centerline. A copy of the sketch shall be provided for each copy of such Permit.

II. Burning or disking operations and/or the use of chemicals to control or kill trees, brush and other vegetation is prohibited without prior approval from the County Highway Engineer.

III. All waterways and lines of drainage shall remain operative.

IV. Wherever topsoil and sod are disturbed they shall be replaced and maintained satisfactorily until the turf is established.

V. The utility facility and installation shall not interfere with any existing utility facilities on the county highway right of way.

VI. When necessary, barricades, warning devices and flagmen shall be provided by the Utility during all phases of their construction and maintenance operations on county highway right of way.

VII. At the time of construction of the utility and at the times of subsequent maintenance, prior approval shall be obtained from the County Highway Engineer for the cutting and trimming of trees within the county highway right of way. Wherever trees are cut the resulting stumps shall be removed unless otherwise provided in Special Provisions of the Permit. Any holes caused by stump removal shall be backfilled, the area leveled and all materials associated therewith disposed of outside the county highway right of way. The utility shall advise the County Highway Engineer at least 48 hours in advance of its intent to start clearing and grubbing operations so that proper supervision can be provided.

VIII. The Utility shall notify the County Highway Engineer of its intent to perform service and maintenance operations which will interfere with the flow of traffic on county highways, and shall obtain his approval prior to performing such operations. However, the Company may perform service and maintenance operations on county highways including opening and disturbing the surface of the right of way without prior approval in those instances where an emergency exists that is dangerous to the life or safety of the public and which requires immediate repair. The Utility shall take all necessary and reasonable safety measures to protect the traveling public and shall notify the County Highway Engineer at the earliest possible moment.

X. The Utility shall assume all liability for, and save the County, its agents and employees, harmless from, and all claims for damages, actions or causes of action arising out of the work to be done herein and the continuing uses by the Utility, including but not limited to placing, constructing, reconstructing, maintaining and using of said utility under this application and Permit.

XI. The Board of County Commissioners may require the Utility, or its contractor, to furnish a deposit in the form of a certified check, a surety bond or corporate undertaking, in favor of the Board of County Commissioners of Cottonwood County, for any expense incurred by the County in the repairing of damage to any portion of the county highway right of way caused by work performed under a Permit, including any out of the ordinary engineering supervision and inspection expense provided by the county. In those instances wherein a deposit is required, the amount of the deposit shall be specified in the Special Provisions Permit. If a check is furnished, any monies remaining over and above such expense shall be returned to the applicant.

XII. The Permit as issued does not in any way imply an easement on private property.

XIII. The installations shall be made in conformity with all applicable laws, regulations and codes covering said installations. All installations shall be made in conformity with regulations of governmental agencies for the protection of the public.

XIV. Upon completion of an installation, the Utility shall restore the county highway right of way to its original condition. The Utility shall then notify the office of the County Highway Engineer of the completion of work so that inspection can be made to determine its acceptability.

AERIAL

I. There shall be only a single pole line on the county highway right of way on either side of the center line thereof.

II. Longitudinal installations on county highways shall normally be located in the outer five feet of the right of way. At crossing of the county highway, poles shall be placed at a minimum of thirty feet from the shoulder lines of the through roadbeds unless right of way widths are prohibitive to such location.

III. The location of all brace poles, anchors and anchor poles within the limits of the county highway right of way shall be approved by the County Highway Engineer.

IV. In those instances in which a Utility is issued a Permit or Permits for construction on both sides of the county highway right of way in a given area, such Permit is conditioned upon the Utility subsequently providing joint use to other Utilities upon reasonable terms mutually agreeable to the Utilities.

UNDERGROUND

I. All crossings of the roadbeds of the county highways shall be made by boring inside a casing or carrier pipe, or by jacking unless this procedure is modified in the Special Provisions of the Permit. The auger shall not lead the casing or carrier pipe by more than one inch. Open trenching shall be restricted to the area from 5 feet beyond the shoulder to the right of way line except as modified in the Special Provision of the Permit.

IX. If at any time Cottonwood County, acting through its Board of Commissioners, shall deem it necessary to make any improvements or changes on all or any part of the right of way of the county highway which affect a utility located on county highway right of way, then and in such event, the owner of the utility shall within 15 days after written notice from the Board of Commissioners, or its authorized agent, proceed to alter, change, vacate or remove said utility from the county highway right of way so as to conform to said county highway changes and as directed by the Board of County Commissioners. Such work shall be done without any cost whatsoever to Cottonwood County and shall be completed within the date specified in said written notice. The Utility shall assume all liability and save Cottonwood County harmless from any and all claims of damage of any nature whatsoever occasioned by reason of not having removed said utility within the time specified in said notice.

II. When pipes with bells or flanges are installed, the crossings of the roadbeds of the county highway shall be made by boring inside a conduit as provided in paragraph I of this section or jacking a conduit of sufficient diameter to permit threading the carrier pipe through it.

III. All voids caused by jacking or boring shall be filled by pressure grouting. The grout material shall consist of a sand-cement slurry of at least two sacks of cement per cubic yard and a minimum of water to assure satisfactory placement.

IV. The underground utilities shall be so installed as virtually to preclude any necessity for disturbing the roadbeds to perform maintenance operations.

V. Underground installations shall be accomplished without damaging or destroying the root structure of specimen trees.

LOCATION SKETCH

Show location of proposed facility in relation to the center line of the highway and pertinent features such as right of way line, shoulder line, curb line and edge of surfacing. The facility should also be referenced to adjacent land lines.

COTTONWOOD COUNTY
DEPARTMENT OF
HIGHWAYS

UTILITY PERMIT

Reference: Project _____
C.S.A.H _____
C.R. _____

In accordance with the application herein, a Utility Permit is granted to _____ _____to place, construct and thereafter maintain _____ _____on or across, or under the right of way of County Highway No._____in the location shown on the sketch which is a part of said application, or in such location as may be specified by the Department of Highways in the Special Provisions hereof.

SPECIAL PROVISIONS:

1. Traffic Control is the Responsibility of the contractor or utility company.

2. Reshape all disturbed areas.

3. Reseed all disturbed areas.

Utility Fee Schedule

Underground Construction > 6" Dia.	$800.00	Per mile
Underground or Overhead Construction of utilities 6" or less dia.	$200.00	Per mile
Boring or tunneling under roadway	$100.00	Each
Open cut crossing - gravel roads only	$500.00	Each
Manure pipes	$50.00	Each permit
Above ground and Underground Min. processing fee	$50.00	Permit
Utility Construction w/o Permit	$1,000.00	And removal
Any ROW Permit	$150.00	Minimum

Total charge for this Permit $_____

Approved_____
(date)
Board of County Commissioners
Cottonwood County, Minnesota

By: _____
County Highway Engineer

Permit No. _____
Certified Check No. _____
Surety Bond No. _____
Date of S. Bond or Check _____
Deposit made by _____
_____

COPIES:

Return to: Highway.Permits@co.cottonwood.mn.us
Cottonwood County Public Works Department
1355 9th Ave
Windom, MN 56101

PH: (507) 832-8819
F: (507) 831-2367

THIS PERMIT IS VALID FOR ONE YEAR FROM APPROVAL.

CITY of CRYSTAL

4141 Douglas Dr. N. Crystal, MN 55422
Phone: 763- 531-1000 Fax: 763- 531-1188
Website: www.crystalmn.gov

Application for Public Works Right-of-Way Permit

Date _____ Permit No. _____

Site Address	
Property Owner	Name _____ Phone No. Email

Applicant is: *(check one)* Property Owner ____ Utility / Facilities Owner ____ Contractor ____

Utility/Facilities Owner	Name/Company _____ Phone No. _____ Local Representative _____ Email _____ Address _____ City State Zip
Contractor	Company _____ Phone No. _____ Contact Person _____ Phone No. _____ Email _____ Address _____ City State Zip

Note: Description of work, detailed drawing and site plan with dimensions must accompany this application.

Right of Way Work-Type:	☐ - New	☐ - Remove/Install	☐ - Repair
Right of Way Sub Type:	☐ - Street Excavation	☐ - Curb Cut	☐ - Blvd Excavation
	☐ - Overhead	☐ - Underground	☐ - Road Closure
	☐ - Small Wireless Facility	☐ - Obstruction	☐ - Planting

Brief description of work: _____

Project Start Date: _____ Estimated Completion Date: _____

The undersigned hereby represents upon all of the penalties of the law, for the purpose of including the City of Crystal to take the action herein requested, that all statements are true, and that all work herein will be done in accordance with the ordinances of the City of Crystal and the State of Minnesota.

_____/_____
Applicant's Signature/Date

Office Use Only:	**Office Use Only:**	
Additional Requirements: ☐ - Performance Bond $ _____	Permit Fee	$_____
☐ - Certificate of Insurance	First 500 Linear Feet	$_____
Required Inspections: ☐ - Final ☐ - Completion Certificate	Over 500 Linear Feet	$_____
	Other Fees _____	$_____
Permit Expiration Date: _____	Total Fees	$_____

Permit Approved By: _____ Date Approved: _____

CITY of CRYSTAL

4141 Douglas Drive North • Crystal, Minnesota 55422-1696

Tel: (763) 531-1000 • Fax: (763) 531-1188 • www.crystalmn.gov

1/1/2019

GENERAL REQUIREMENTS AND SPECIAL PROVISIONS FOR PUBLIC WORKS RIGHT-OF-WAY PERMIT

1. **Compliance with other laws** - Obtaining a right-of-way permit does not relieve permittee of its duty to obtain all other necessary permits, licenses, and authority and to pay all fees required by the city or other applicable rule, law or regulation. A permittee shall comply with all requirements of local, state and federal laws, including Minnesota Statutes, section 216D.01-.09 ("one call excavation notice system"). A permittee shall perform all work in conformance with all applicable codes and established rules and regulations, and is responsible for all work done in the right-of-way pursuant to its permit, regardless of who does the work.

   A permit as issued does not in any way imply an easement on private property or grant a right to encroach on private property or grant permission to occupy or perform any work within the rights-of-way of any other agency or jurisdiction

2. **Permit on Job** - Permits or copies shall be kept on the work site, while work is in progress, in the custody of the individual in charge and shall be exhibited upon request by any City official.

3. **Execution** - The Permittee shall use due diligence in the execution of the work authorized under this permit in order not endanger or unnecessarily obstruct travel along the said roadway. Operations shall be so conducted at all times as to permit safe and free travel over the roads within the limits of the work. All safety measures for the free movement of pedestrian and vehicular traffic shall be provided by the permittee at its own cost.

   Permittee shall give a minimum of 2 days advance notice to all adjacent properties to the route of construction prior to beginning of any work.

   Contact Mick Cyert at (763) 531-1161 or via email at mick.cyert@crystalmn.gov at least 2 business days prior to the beginning of any work

4. **Provisions and Specifications** - These general requirements and specifications shall be considered as forming an integral part of each and every permit issued for operations on City roadways. The work authorized by this permit shall be done at such time and in such manner to be consistent with the safety of the public and shall conform to all requirements and standards of the City of Crystal as herein specified. If at any time it shall be found by the City of Crystal that the work is not being done or has not been properly performed, the Permittee, upon being notified shall immediately take the necessary steps, at their own expense to place the work in conformance to said required standard.

5. **Barricades and Traffic Control** - All traffic warning devices and barricades shall conform to the Minnesota Manual on Uniform Traffic Control Devices (MMUTCD), and the MnDOT Temporary Traffic Control Zone Layouts Field Manual, current editions and any and all updates or supplements thereto.

   Excavations shall be protected by a suitable barricade, guard, or fence sufficient to prevent persons or animals from entering the excavation.

   All traffic warning devices, barricades, flag persons and equipment shall be provided by the parties or organizations performing the work. Said devices shall be removed from the job site promptly upon completion of the work.

   OHSA - appropriate safety vests shall be worn be *ANYONE* occupying City right-of-way.

6. **Erosion Control** - Erosion control shall be performed in accordance with the provisions of Mn/DOT 1717.2 except as modified below:

   A. Street Cleaning: Soil tracked or dropped onto existing area and surrounding paved areas shall be swept daily with a pick-up sweeper at the Permittee own expense.

   B. Storm Sewer Inlet Protection – The Permittee shall install and maintain inlet protection devices on all storm sewer inlets impacted by construction. The devise used shall be WIMCO Model #CG23 inlet device or approved equal.

   The Permittee is advised to refer to "Protecting Water Quality in Urban Areas – Best Management Practices for Minnesota" and be found at:

   https://www.pca.state.mn.us/water/stormwater-best-management-practices-manual

7. **Damage to Roadway** - If pavement, roadway or right-of-way is disturbed or damaged, same shall be restored in a timely manner to its original or a better condition at the sole expense of the Permittee. Permittee's failure to correct such damage in a timely manor will result in the City of Crystal, through its own forces or contractors, making repairs and billing the Permittee for all costs and expenses related thereto. Permittee agrees if it fails to make payment of said amount, it shall pay all costs relating to debt collection.

8. **Americans with Disabilities Act –** Any work in the City rights-of-way that impacts any pedestrian facilities requires that the restoration of the pedestrian facilities impacted be restored to conform to the current ADA requirements and standards.

9. **Clean up and Restoration** – The work to be done under a right-of-way permit involving excavation, including the patching and restoration of the right-of-way as required herein, must be undertaken and completed promptly but in no case later than the dates specified in the permit,

Street surfaces and roadside shall be kept, neat and presentable throughout construction as determined by the City of Crystal.

The Permittee shall remove at own expense all temporary structures, rubbish, excess and waste materials, equipment, etc. from the site of the work authorized by this permit on a routine basis.

All surfaces disturbed or damaged by Permittee operations due to the performance of the work authorized by this permit shall be restored, at Permittee's expense, in accordance with the following requirements.

A. When sod or turf is disturbed by any operation of the permittee, such sod or turf shall be removed and replaced with new sod meeting the requirements of Mn/DOT 3878. New sod shall be placed on not less than 6-inches of topsoil. The sod shall be placed and maintained in accordance with Mn/DOT 2575. The permittee shall maintain and water the sod for 30 calendar days. The City will then makes final inspection and consider acceptance of the sod.

B. Where the City Engineer determines that seeding is warranted, such areas shall be restored in accordance with Mn/DOT 2575 with not less than 6-inches of topsoil and hydro-seeded with Seed Mixture 25-151 in accordance with Mn/DOT 3876, for hydro-seed operations. The determination to seed or sod shall be solely at the discretion of the City Engineer.

C. Wherever bituminous surfaces are disturbed by excavation, trenching or by any operations of the Permittee, such waste materials and debris shall be disposed of outside of the City in accordance with the provisions of Mn/DOT 2104. Bituminous patches shall be straight line saw cut and squared up and shall be constructed in accordance with the provisions of Mn/DOT 2211 and Mn/DOT 2360 to substantially the same thickness or better as found of Class 5 aggregate base and Mn/DOT wearing course bituminous material. Bituminous material shall be placed on a compacted subgrade as approved by the City Engineer and in equal lifts with each lift shall not to exceed 2-inches in thickness.

D. Concrete walks, driveways or curb and gutters that are disturbed or damaged by any operations of the Permittee shall be removed and replaced in accordance with the provisions of Mn/DOT 2104, Mn/DOT 2521 and Mn/DOT 2531. Concrete walks shall be constructed to a 4-inch thickness and concrete driveways shall be 7-inches.

   Concrete Mix for sidewalks, driveways and curb and gutter shall be Mn/DOT Mixture 3F52

10. **Quality of Work** - Finished surface, base and sub-base of the road upon completion of the work shall be equal to or better than specifications for the original road. No pavement debris or any other debris shall be left buried in the backfill of any trench or excavation.

11. **Notice of Completion** - When the work under any permit hereunder is completed, the Permittee shall furnish a completion certificate in accordance with Minnesota Rules, part 7819.1300 and forms provided.

12. **Site Inspection.** Permittee shall make the work-site available to the City and to all others as authorized by law for inspection at all reasonable times during the execution of and upon completion of the work.

13. **Guaranty** – It shall be understood that the Permittee will be responsible for maintenance or repair of any and all failures due to workmanship, materials, settlement, erosion, and lack of vegetation growth, rutting or other job related problems for a 12 - month period following completion. During this 12-month period the Permittee, upon notification from the City, correct all restoration work to the extent necessary, using the method required by the City. Work shall be completed within 30 calendar days of the receipt of the notice from the City. Permittee shall be responsible for all costs and expenses related to said maintenance or repair.

    If the Permittee fails to restore the right-of-way in the manner and to the condition required by the City, or fails to satisfactorily and timely complete all restoration required by the City, the City at its option may do such work. In that event the Permittee shall pay to the city, within 30 days of billing, the cost of restoring the right-of-way. If permittee fails to pay as required, the city may exercise its rights under any existing construction performance bond.

14. **Annulment** - In the event of failure or neglect, will or not, by the Permittee to comply with the prescribed conditions, restrictions and regulations, the City may revoke and annul this permit and order said Permittee to immediately remove any and all property belonging to the Permittee from the legal limits of the roadway or City property

CITY of CRYSTAL

4141 Douglas Drive North • Crystal, Minnesota 55422-1696

Tel: (763) 531-1000 • Fax: (763) 531-1188 • www.crystalmn.gov

Certificate of Final Completion
For
Public Works Right-of-Way Permit

Please Print

Permit No._____ Date of Issue_____20_____

Site Address _____

Utility/Facilities Owner _____

Contractor/Installer_____

Contact Person _____ Phone Number_____

Design Professional _____ Phone Number_____

Begin Construction Date _____ Final Completion Date_____

Description of Work _____

Permittee's Certification

I, the permittee, _____ herby certify that all work as authorized under this permit has been performed in conformance with all applicable codes, established rules and regulations and general requirements, specifications and construction standards of the City of Crystal and is ready for final inspection.

Permittee _____ Date_____ Email_____
(Authorized signature)

Company _____ Phone No._____

Complete this form and email to Engineering Project Manager, Mick Cyert at mick.cyert@crystalmn.gov

COUNTY OF **Dodge**
DEPARTMENT OF HIGHWAYS

APPLICATION FOR UTILITY PERMIT on COUNTY HIGHWAY RIGHT OF WAY

Board of County Commissioners
Mantorville , Minnesota
Attn: County Highway Engineer

C.S.A.H. _____
C. R. _____

Application is hereby made for permission to place, construct and thereafter maintain a _____ _____ along or across County Highway No. _____ from _____ _____ to _____ _____ feet from center line on the _____ (east, west, north or south) side of the county highway in accordance with the sketch shown on the inside hereof, or attached thereto.

I. AERIAL CONSTRUCTION

- ☐ Single pole
- ☐ H-Frame
- ☐ Single pole and H-Frame
- ☐ Steel tower
- ☐ Other _____
- ☐ Open wire
- ☐ Cable
- ☐ Vertical
- ☐ Cross-arm
- ☐ Vertical and cross-arm

VOLTAGE	NUMBER OF CONDUCTORS	SIZE OFCONDUCTORS

Minimum height of conductor _____ ft. along highway _____ ft. at crossing over highway

EXTENT AND LOCATION OF TREE TRIMMING AND/OR CLEARING

II. UNDERGROUND CONSTRUCTION

CONDUIT

- ☐ Multiple tile
- ☐ Transite
- ☐ Clay tile
- ☐ Sectional concrete
- ☐ Steel pipe
- ☐ Other _____

CASING

☐ Steel pipe ☐ Sectional concrete ☐ Other _____

SIZE	DEPTH

VOLTAGE	NUMBER OF CONDUCTORS	SIZE OF CONDUCTORS

METHOD OF INSTALLING UNDER ROADBEDS (if open trench, explain why necessary)

☐ Open trench _____

☐ Jacking ☐ Boring ☐ Pheuma Gopher

EXTENT AND LOCATION OF TREE CLEARING	New Facility	Replacement Facility
NONE	☐	☐

III. Work to start on or after _____ and to be completed on or before _____

IV. The applicant in carrying on any and all of the work herein above mentioned or referred to in its application and in the Permit issued herefore, shall strictly conform to the terms of such Permit, and the regulations of the Board of County Commissioners, as set forth herein together with the Special Provisions, all of which are made a part hereof. The applicant specifically agrees to be bound hereby. The applicant shall also comply with the regulations of all other governmental agencies for the protection of the public. The work shall be accomplished in a manner that will not be detrimental to the highway and that will safeguard the public.

Dated this _____ day of _____ , 20____ _____
Name of Company making application

Signature _____ By _____
Title

Address _____

Phone Number _____ Fax Number _____

Rules and Regulations of Board of County Commissioners for Utilities on County Highways

DEFINITIONS

Utility. Under this order "utility" shall mean and include all privately, publicly or co-operatively owned communication lines and facilities, any systems, lines and facilities for the distribution and transmission of electrical energy, oil, gas, water, sewer, steam and other pipe lines, railways, ditches, flumes or other structures which under the laws of this State or the ordinance of any town or city may be constructed, placed or maintained across, along or on county highway right of way. Dependent upon the meaning intended in the context, "Utility" shall also mean the utility company, inclusive of any wholly owned subsidiary.

GENERAL

I. Except as otherwise permitted utility construction and relocation on county highway right of way shall not be commenced until an application for a Permit has been made and such Permit granted. The Permit sketch shall show the location of the proposed utility with reference to county highway center line. A copy of the sketch shall be provided for each copy of such Permit.

II. Burning or disking operations and/or the use of chemicals to control or kill trees, brush and other vegetation is prohibited without prior approval from the County Highway Engineer.

III. All waterways and lines of drainage shall remain operative.

IV. Wherever topsoil and sod are disturbed they shall be replaced and maintained satisfactorily until the turf is established.

V. The utility facility and installation shall not interfere with any existing utility facilities on the county highway right of way.

VI. When necessary, barricades, warning devices and flagmen shall be provided by the Utility during all phases of their construction and maintenance operations on county highway right of way.

VII. Work zone safety measures shall follow the Minnesota Manual on Uniform Traffic Control Devices (MMUTCI) any time work is being performed within the county Right of Way.

VIII. At the time of construction of the utility and at the times of subsequent maintenance, prior approval shall be obtained from the County Highway Engineer for the cutting and trimming of trees within the county highway right of way. Wherever trees are cut the resulting stumps shall be removed unless otherwise provided in the Special Provisions of the Permit. Any holes caused by stump removal shall be backfilled, the area leveled and all materials associated therewith disposed of outside the county highway right of way. The utility shall advise the County Highway Engineer at least 48 hours in advance of its intent to start clearing and grubbing operations so that proper supervision can be provided.

IX.. The Utility shall notify the County Highway Engineer of its intent to perform service and maintenance operations, which will interfere with the flow of traffic on county highways, and shall obtain his approval prior to performing such operations. However the Company may perform service and maintenance operations on county highways including opening and disturbing the surface of the right of way without prior approval in those instances where an emergency exists that is dangerous to the life or safety of the public and which requires immediate repair. The Utility shall take all necessary and reasonable safety measures to protect the traveling public and shall notify the County Highway Engineer at the earliest possible moment.

X. If at any time **Dodge** County, acting through its Board of County Commissioners, shall deem it necessary to make any improvements or changes on all or any part of the right of way of the county highway which affect a utility located on county highway right of way, then and in such event, the owner of the utility shall within 15 days after written notice from the Board of County Commissioners, or its authorized agent, proceed to alter, change, vacate or remove said utility from the county highway right of way so as to conform to said county highway changes and as directed by the Board of County Commissioners. Such work shall be done without any cost whatsoever to **Dodge** County and shall be completed within the date specified in said written notice. The Utility shall assume all liability and save **Dodge** County harmless from any and all claims of damage of any nature whatsoever occasioned by reason of not having removed said utility within the time specified in said notice.

XI. The Utility shall assume all liability for, and save the County, its agents and employees, harmless from, any and all claims for damages, actions or causes of action arising out of the work to be done herein and the continuing uses by the Utility, including but not limited to the placing, constructing, reconstructing, maintaining and using of said utility under this application and Permit.

XII. The Board of County Commissioners may require the Utility, or its contractor, to furnish a deposit in the form of a certified check, a surety bond or corporate undertaking, in favor of the Board of County Commissioners of **Dodge** County, for any expense incurred by the County in the repairing of damage to any portion of the county highway right of way caused by work performed under a Permit, including any out of the ordinary engineering supervision and inspection expense provided by the county. In those instances wherein a deposit is required, the amount of the deposit shall be specified in the Special Provisions of the Permit. If a check is furnished, any monies remaining over and above such expense shall be returned to the applicant.

XIII. The Permit as issued does not in any way imply an easement on private property.

XIV. The installations shall be made in conformity with all applicable laws, regulations and codes covering said installations. All installations shall be made in conformity with regulations of governmental agencies for the protection of the public.

XV. Upon completion of an installation, the Utility shall restore the county highway right of way to its original condition. The Utility shall then notify the office of the County Highway Engineer of the completion of the work so that inspection can be made to determine its acceptability.

AERIAL

I. There shall be only a single pole line on the county highway right of way on either side of the center line thereof.

II. Longitudinal installations on county highways shall normally be located in the outer five feet of the right of way. At crossing of the county highway, poles shall be placed at a minimum of thirty feet from the shoulder lines of the through roadbeds unless right of way widths are prohibitive to such location.

III. The location of all brace poles, anchors and anchor poles within the limits of the county highway right of way shall be approved by the County Highway Engineer.

IV. In those instances in which a Utility is issued a Permit or Permits for construction on both sides of the county highway right of way in a given area, such Permit is conditioned upon the Utility subsequently providing joint use to other Utilities upon reasonable terms mutually agreeable to the Utilities.

UNDERGROUND

I. All crossings of the roadbeds of the county highways shall be made by boring inside a casing or carrier pipe, or by jacking, unless this procedure is modified in the Special Provisions of the Permit. The auger shall not lead the casing or carrier pipe by more than one inch. Open trenching shall be restricted to the area from 5 feet beyond the shoulder to the right of way line except as modified in the Special Provisions of the Permit.

II. When pipes with bells or flanges are installed, the crossings of the roadbeds of the county highway shall be made by boring inside a conduit as provided in paragraph I of this section or jacking a conduit of sufficient diameter to permit threading the carrier pipe through it.

III. All voids caused by jacking or boring shall be filled by pressure grouting. The grout material shall consist of a sand-cement slurry of at least two sacks of cement per cubic yard and a minimum of water to assure satisfactory placement.

IV. The underground utilities shall be so installed as virtually to preclude any necessity for disturbing the roadbeds to perform maintenance operations.

V. Underground installations shall be accomplished without damaging or destroying the principal root structure of specimen trees.

LOCATION SKETCH

Show location of proposed facility in relation to the center line of the county highway and other pertinent features such as right of way line, shoulder line, curb line and edge of surfacing. The facility should also be referenced to adjacent land lines.

Dodge COUNTY

DEPARTMENT OF HIGHWAYS

Utility Permit

Reference: Project _____
C.S.A.H. _____
C.R. _____

In accordance with the application herein, a Utility Permit is granted to _____ _____ to place, construct and thereafter maintain _____ _____ on or across, or under the right of way of County Highway No. _____ in the location shown on the sketch which is a part of said application, or in such location as may be specified by the Department of Highways in the Special Provisions hereof.

SPECIAL PROVISIONS:

All disturbed areas shall be restored to original condition which shall include removal of excess material and establishment of grasses. The vegetation shall be maintained until established to the satisfaction of the County Engineer.

All disturbed tile lines shall be restored to the satisfaction of the property owner and/or County Engineer.

Installation of buried utility shall maintain a consistent distance from centerline and must be within 2 feet of that indicated on this permit.

Elevation of installed utility shall be consistent and shall not rise when passing over drives or entrances. Installing deeper is permitted.

Posts, poles, pedestals, and other above ground utility structures under 5 feet tall shall be marked with a highly visible pole and/or flag no less than 5 feet tall.

Approved _____
(date)
Board of County Commissioners
_____ , Minnesota

By _____
County Highway Engineer

Permit No. _____
Certified Check No. _____
Surety Bond No. _____
Date of S. Bond or C. Check _____
Bank or Bonding Co. _____
Deposit Made by _____

Application for Utility/ ROW Permit

Hennepin County
Hennepin County Public Works
Transportation Department (Roads and Bridges) - Operations
1600 Prairie Drive
Medina, MN 55340-5421

Permit#: **2019-U0535**
Status: Active
Road: 110
City/Twp: Minnetrista
Maintenance District: South

PROJECTS NORTH OF HIGHWAY 55
Jacob Cardinal (612-328-1622) 24 hours before starting work

PROJECTS SOUTH OF HIGHWAY 55
Kurt Weber (612-221-9388) 24 hours before starting work

Email

Construction Dates

Start: 06/10/2019 **End:** 12/31/2019

Underground

Conduit/casing type:	PVC / Other Plastic
Underground type:	Service
Method of installation:	Open Trench
Depth:	36"

Payment method

credit card / electronic check

Payment details

Routine Fee	$330.00
Total:	$330.00

Construction Description

REPAIR GAS SERVICE TO 5800 PAINTER RD
MGC# 19-2582
WO# 90393738
IF QUESTIONS CALL DAVE OLSON 612-849-9832

Site(s)

Road	From	To	Relative to Road
110	PAINTER RD	COUNTY RD 110	West

henncty-5800painterrd-0605.pdf

Special provisions:

- Approved subject to the following conditions:

  1) Contact Kurt Weber at (612) 221-9388 or via email at Kurtis.Weber@hennepin.us at least 24 hours prior to construction. Failure to contact the south inspector or the Permits Office shall be considered a violation of the permit and grounds for dismissing contractor from the job site.

  2) Applicant shall maintain safe conditions for pedestrians at all times during installation

  3) If all work under this permit is completed, click the green flag icon in Permit view to change the status to 'Ready for Inspection'.

  4) Temporary traffic control layouts on County roads shall conform to the most recent version of the Minnesota Manual on Uniform Traffic Control Devices.

  5) Notify Roy Doran at 612-596-0293 a minimum of 48 hours prior to any work involving a Hennepin County traffic signal, including prior to the milling of a road surface that may contain loop detectors. There may be additional charges invoiced to you for work completed by the Hennepin County Signal Shop.

6) Requests for Saturday work must submitted by email to michael.olmstead@hennepin.us and received by Thursday at noon. For all other off hour requests, please contact the individual inspector mentioned above in #1.

- This roadway was resurfaced within the last 5 years. Therefore no excavations will be allowed in the paved surface.

Notes:

No notes

Approval	Digital Signature
Applicant	Jody M. Cox - 06/05/2019 11:34 AM 2cdf2553ed2e4056053c9eb592959eb4 6618bfd0c2ff03496c6d1739ff71c580
#1 Permits Inspector	Kurt Weber - 06/06/2019 7:19 AM c2ef75d41e988f9b0bbae7b7f63c1e18 788c9da6251c12b025d7b4a2bee3d910
#2 Permits Supervisor	Michael D. Olmstead - 06/10/2019 1:03 PM 316eb80c1ce915eead0f9ceb4494d223 4185fb7d0b7b86ae445f8110b1e05674

Definitions

- UTILITY. Under this order "Utility" shall mean and include all privately, publicly or co-operatively owned communication lines and facilities, any systems, lines and facilities for the distribution and transmission of electrical energy, oil, gas, water, sewer, steam and other pipe lines, railways, ditches or other structures which under the laws of this State or the Ordinance of any County or City may be constructed, placed or maintained across, along or on County Highway Right-of-Way. Dependent upon the meaning intended in the context, "utility" shall also mean the Utility Company, inclusive of any wholly owned subsidiary.

General

- -Except as otherwise permitted, utility construction and relocation on County Highway Right-of-Way shall not be commenced until an application for a Permit has been made and such Permit granted. The Permit submittal shall include detailed construction plans that show the location of the proposed utility with reference to County Highway Centerline.
  -Each registrant shall, at the time of registration and by January 1 of each year, file a construction and major maintenance plan for all work within the county right-of-way for the upcoming year with the Permit Office. Such plan shall be submitted using a format designated by the Permit Office and shall contain the information necessary to facilitate coordination and reduction in the frequency of excavations and obstructions of right-of-way. The registrant shall map electronically upcoming major projects onto the county's established mapping application (Utility Infrastructure Integration, UI2).
  -Inclement weather shall be reason for delay of the project start or suspension of the project as determined by Hennepin County.

-Safety vests shall be worn by ANYONE occupying County right-of-way.
-Permit on Job: Permits or copies shall be kept on the work site, while work is in progress, in the custody of the individual in charge, and shall be exhibited upon request by any county official.
-Provisions and Specifications: These general permit requirements and specifications shall be considered as forming an integral part of each and every permit issued for operations on county roadways. The work authorized by this permit shall be done at such time and in such manner as shall be consistent with the safety of the public and shall conform to all requirements and standards of the County of Hennepin as herein specified. If at any time Hennepin County finds that the work is not being, or has not been, properly performed, the Permittee, upon being notified, shall immediately take the necessary steps, at their own expense, to place the work in conformance to said requirements or standards.
-Annulment: In the event of failure or neglect by said Permittee or Permittee's employees, to perform and comply with the prescribed conditions, restrictions and regulations, the Transportation Department may revoke and annul this permit and order said Permittee to immediately remove any and all structures or property belonging to said Permittee from the legal limits of the roadway or county property.
-Private Property: The Permit as issued does not in any way imply an easement on private property or grant a right to encroach on private property.
-Driving Limitations: No driving onto highway from ditch or driving on shoulders or over curbs where damage will occur.
-Lugs on Equipment: No lugs shall be used on equipment traversing Hennepin County roadways.
-Insurance: The Permittee shall have in force during the operation of Permittee's vehicles and equipment over and/or adjacent to Minnesota roadways, (1) Commercial General Liability Insurance with each occurrence of $1,500,000 and general aggregate limits of $2,000,000, and (2) Automobile Liability Insurance with combined single limit each occurrence coverage for bodily injury and property damage limits of $1,500,000. These are minimum insurance requirements. It is the sole responsibility of the Permittee to determine the need for and to procure additional insurance which may be needed in connection with this Permit. If requested, a Certificate of Insurance must be provided naming Hennepin County as certificate holder and as an additional insured for the Commercial General Liability coverage with respect to operations covered under this Permit.
-Indemnification: The Applicant shall, to the extent permitted by law, defend, indemnify and hold harmless the County, it's employees, officers, agents, and contractors against any claim of liability or against any loss of any kind, including compliance with administrative orders and regulations, and specifically including, without limitation, against any claim of liability or loss from personal injury or property damage resulting from or arising out of the presence of the Applicant's equipment or other personal property on County managed public right-of-way or on County property placed within the right-of-way that is in any way related to or as part of an attachment to County owned infrastructure and also as to any willful misconduct of the Applicant, it's employees, contractors or agents, except to the extent such claims or damages may be due to or caused by the willful misconduct of the County, or it's employees, contractors, or agents.
-Liability Waiver: The Applicant waives any liability of the County, or any of its respective agents, representatives, successors or employees for any lost revenue, lost profits, loss of technology, use of rights or services, incidental, punitive, indirect, special or consequential damages, loss of data, or interruption or loss of use of services, even if the County has been advised of the possibility of such damages, whether under theory of contract, tort (including negligence), strict liability or otherwise

that is related to, arises out of, or is in some part, caused by Applicant's attachment to or use of County owned infrastructure or county managed public right-of-way.

- TRAFFIC CONTROL:
  -All warning devices and barricades shall conform to the Minnesota Manual on Uniform Traffic Control Devices, current edition, and any and all updates or supplements thereto.
  -All warning devices, barricades, flagmen and equipment shall be provided by parties or organizations performing the work. Said devices shall be removed from the job site promptly upon completion of work.
  -Standard warning devices and barricades and safety vests shall be kept clean and in good repair at all times.
  -Detour on a County roadway requires ten (10) working days advance notice to the Permit Office.
  -Execution: The Permittee shall use due diligence in the execution of the work authorized under this permit in order not to endanger or unnecessarily obstruct travel along the said highway. Operations shall be so conducted at all times as to permit safe and reasonably free travel over the roads within the limits of the work herein prescribed. All safety measures for the free movement of traffic shall be provided by the Permittee at its own cost.
- GENERAL CONSTRUCTION
  -Conformity to Laws: The installation shall be made in conformity with all applicable laws, regulations and codes covering said installations. All installations shall be made inconformity with regulations of governmental agencies for the protection of the public.
  -Americans with Disabilities Act: Any work in the County's rights-of-way that impacts any pedestrian facilities requires that the restoration of the pedestrian facilities impacted be restored to conform to current ADA requirements and standards.
  -Removal: If at any time the permitted structure or facility shall fail from any cause whatsoever, the Permittee shall have the same removed or repaired immediately upon receipt of written notice to do so.
  -Existing Facilities: Applicant must protect all existing installations.
  -Cutting Trees: The permission herein granted does not confer upon the Permittee the right to cut, remove or destroy trees or shrubbery within the legal limits of the roadway or relieve Permittee from obtaining any consent otherwise required from the owner of the property adjacent thereto.
  -Drainage: The existing drainage patterns shall not be altered unless approved by Hennepin County. Watershed District approval and drainage calculations are required if plan alters existing drainage patterns.
  -Clean-Up: Street surface and roadside shall be kept clean, neat and presentable throughout construction as determined by the Hennepin County Transportation Department.
  -Dust control shall be provided upon request of the Hennepin County Transportation Department at the Permittee's expense.
  -Trees and Vegetation: Burning or disking operations and or the use of chemicals to control or kill trees, brush and other vegetation is prohibited without Hennepin County approval.
- RESTORATION
  -Damage to Roadway- If pavement, roadway or right-of-way is damaged; same shall be restored, in a timely manner to its original or a better condition, at the sole expense of the Permittee.
  -The Permittee will be responsible for maintenance or repair of any and all failures due to settlement, erosion, lack of vegetation growth, rutting or other job related problems for a period of two (2) years after project completion and Notice of Work Completion form has been received by Hennepin County. Permittee shall perform all said maintenance immediately after it has been

notified of deficiencies. Permittee shall be responsible for all costs and expenses related to said maintenance.
-Permittee's failure to perform maintenance or repair of any failures and/or damage to roadway or right-of-way immediately will result in Hennepin County, through its own forces or its contractors, performing said maintenance or repairs and billing Permittee for all costs and expenses related thereto. Permittee shall make payment to Hennepin County within fifteen (15) days of receipt of said bill. Permittee agrees, that if it fails to make payment of said amounts within the specified time, to Hennepin County, Permittee shall pay all costs related to debt collections, including, but not limited to, court costs, fees, interest and attorneys' fees.
-Permanent restoration plans must be submitted to the County's Permit Office prior to starting construction for temporary restoration/winter stabilization work occurring between November 1st and April 30th.
-Quality of Work: Finished surface, base and sub-base of road upon completion of work shall be equal to or better than specifications for original road.

Underground

- -Excavations shall be cribbed, sheeted and/or fenced when necessary, or as required by Hennepin County.
  -Boring or Jacking: Installation of pipe under roadways and driveways, shall be jacked or bored as designated by the Hennepin County Transportation Department. No road or driveway, including field accesses, may be crossed with a vibratory plow.
  -Casing pipe shall be required for installations exceeding 4 inches in diameter under roadways.
  -All crossings under a Hennepin County Road shall be a minimum of 60" deep unless prior permission to cross at a shallower depth is received from Hennepin County.
  -Pressure grouting shall be required as designated by Hennepin County Transportation Department.
  -Manholes: All manhole covers, valve covers, etc. shall be placed one-quarter inch lower than finished grade.
  -The use of flow-able fill as a backfilling material must be approved by the Hennepin County Transportation Department.
  -Traffic will not be allowed over gravel up to grade or steel plates unless previously authorized by the Hennepin County Transportation Department.

APPLICATION FOR UTILITY PERMIT ON COUNTY HIGHWAY RIGHT OF WAY

Board of County Commissioners
Lincoln County, Minnesota
Attn: County Engineer

C.S.A.H. _____
C.R. _____

Application is hereby made for permission to place, construct, and thereafter maintain a _____ _____ along or across County Highway No. _____ from _____ to _____ feet from centerline on the _____ (east, west, north or south) side of the county highway in accordance with the sketch shown on the inside hereof, or attached thereto.

I. AERIAL CONSTRUCTION

- ☐ Single Pole
- ☐ H-Frame
- ☐ Single Pole & H-Frame
- ☐ Steel Tower
- ☐ Other _____
- ☐ Open Wire
- ☐ Cable
- ☐ Vertical
- ☐ Cross-arm
- ☐ Vertical & Cross Arm

Voltage	Number of Conductors	Size of Conductors

Minimum height of conductor: _____ ft. along highway _____ ft. at crossing over highway.

Extent and Location of Tree Trimming and/or clearing:

II. UNDERGROUND CONSTRUCTION

CONDUIT

- ☐ Multiple Tile
- ☐ Transite
- ☐ Clay Tile
- ☐ Sectional Concrete
- ☐ Steel Pipe
- ☐ Other _____

CASING

☐ Steel Pipe ☐ Sectional Concrete ☐ Other _____

Size	Depth

Voltage	Number of Conductors	Size of Conductors

METHOD OF INSTALLING UNDER ROADBEDS (if open trench, explain why necessary)

☐ Open Trench _____

☐ Jacking ☐ Boring ☐ Pneuma Gopher

Extent and Location of Tree Clearing	New Facility ☐	Replacement Facility ☐

III. Work to start on or after _____ and to be completed on or before _____

IV. The applicant in carrying on any and all of the work herein above mentioned or referred to in its application and in the permit issued herefore, shall strictly conform to the terms of such permit, and the regulations of the Board of County Commissioners, as set forth herein together with the special provisions, all of which are made a part hereof. The applicant specifically agrees to be bound hereby. The applicant shall also comply with the regulations of all other governmental agencies for the protection of the public. The work shall be accomplished in a manner that will not be detrimental to the highway and that will safeguard the public.

Dated this _____ day of _____, 2____.

_____
Name of company making application

Signature _____ By _____
Title

Address _____

Rules and Regulations of Board of County Commissioners for Utilities on County Highways

DEFINITIONS

Utility. Under this order "utility" shall mean and include all privately, publicly, or cooperatively owned communication lines and facilities, any systems, lines and facilities for the distribution and transmission of electrical energy, oil, gas, water, sewer, steam and other pipe lines, railways, ditches, flumes or other structures which under the law of this state or the ordinance of any town or city may be constructed, placed or maintained across, along or on county highway right of way. Dependent upon the meaning intended in the context, "Utility" shall also mean the utility company, inclusive or any wholly owned subsidiary.

GENERAL

I. Except as otherwise permitted, utility construction and relocation on county highway right of way shall not be commenced until an application for a permit has been made and such permit granted. The permit sketch shall show the location of the proposed utility with reference to county highway centerline. A copy of the sketch shall be provided for each copy of such permit.

II. Burning or disking operations and/or the use of chemicals to control or kill trees, brush and other vegetation is prohibited without prior approval from the County Engineer.

III. All waterways and lines of drainage shall remain operative.

IV. Wherever topsoil and sod are disturbed they shall be replaced and maintained satisfactorily until the turf is established.

V. The utility facility and installation shall not interfere with any existing utility facilities on the county highway right of way.

VI. When necessary, barricades, warning devices and flagmen shall be provided by the utility during all phases of their construction and maintenance operations on county highway right of way.

VII. At the time of construction of the utility and at the times of subsequent maintenance, prior approval shall be obtained from the County Engineer for the cutting and trimming of trees within the county highway right of way. Wherever trees are cut the resulting stumps shall be removed unless otherwise provided in the special provisions of the permit. Any holes caused by stump removal shall be backfilled, the area leveled and all materials associated therewith disposed of outside the county highway right of way. The utility shall advise the County Engineer at least 48 hours in advance of its intent to start clearing and grubbing operations so that proper supervision can be provided.

VIII. The utility shall notify the County Engineer of its intent to perform service and maintenance operations, which will interfere with the flow of traffic on county highways and shall obtain his approval prior to performing such operations. However, the company may perform service and maintenance operations on county highway including opening and disturbing the surface of the right of way without prior approval in those instances where an emergency exists that is dangerous to the life or safety of the public and which requires immediate repair. The utility shall take all necessary and reasonable safety measures to protect the traveling public and shall notify the County Engineer at the earliest possible moment.

IX. If at any time Lincoln County, acting through its Board of County Commissioners, shall deem it necessary to make any improvements or changes on all or any part of the right of way of the county highway which affect a utility located on county highway right of way, then and in such event, the owner of the utility shall within 15 days after written notice from the Board of County Commissioners, or it authorized agent, proceed to alter, change, vacate or remove said utility from the county highway right of way so as to conform to said county highway changes and as directed by the Board of County Commissioners. Such work shall be done without any cost whatsoever to Lincoln County and shall be completed within the date specified in said written notice. The utility shall assume all liability and save Lincoln County harmless from any and all claims of damage of any nature whatsoever occasioned by reason of not having removed said utility within the time specified in said notice.

X. The utility shall assume all liability for, and save the county, its agents and employees, harmless from any and all claims for damages, actions, or causes of action arising out of the work to be done herein and the continuing uses by the utility, including but not limited to the placing, constructing, reconstructing, maintaining, and using of said utility under this application and permit.

XI. The Board of County Commissioners may require the utility, or its contractor, to furnish a deposit in the form of a certified check, a surety bond or corporate undertaking, in favor of the Board of County Commissioners of Lincoln County, for any expense incurred by the county in the repairing of damage to any portion of the county highway right of way caused by work performed under a permit, including any out of the ordinary engineering supervision and inspection expense provided by the county. In those instances wherein a deposit is required, the amount of the deposit shall be specified in the special provisions of the permit. If a check is furnished, any monies remaining over and above such expense shall be returned to the applicant.

XII. The permit as issued does not in any way imply an easement on private property.

XIII. The installations shall be made in conformity with all applicable laws, regulations, and codes covering said installations. All installations shall be made in conformity with regulations of governmental agencies for the protection of the public.

XIV. Upon completion of any installation, the utility shall restore the county highway right of way to its original condition. The utility shall then notify the office of the County Engineer of the completion of the work so that inspection can be made to determine its acceptability.

AERIAL

I. There shall be only a single pole line on the county highway right of way on either side of the centerline thereof.

II. Longitudinal installations on county highways shall normally be located in the outer five feet of the right of way. At crossing of the county highway, poles shall be placed at a minimum of thirty feet from the shoulder lines of the through roadbeds unless right of way widths are prohibitive to such location.

III. The location of the brace poles, anchors and anchor poles within the limits of the county highway right of way shall be approved by the County Engineer.

IV. In those instances in which a utility is issued a permit or permits for construction on both sides of the county highway right of way in a given area, such permit is conditioned upon the utility subsequently providing joint use to other utilities upon reasonable terms mutually agreeable to the utilities.

UNDERGROUND

I. All crossings of the roadbeds of the county highways shall be made by boring inside a casing or carrier pipe, or by jacking, unless this procedure is modified in the special provisions of the permit. The auger shall not lead the casing or carrier pipe by more than one inch. Open trenching shall be restricted to the area from five feet beyond the shoulder to the right of way line except as modified in the special provisions of the permit.

II. When pipes with bells or flanges are installed, the crossings of the roadbeds of the county highway shall be made by boring inside a conduit as provided in paragraph I of this section or jacking a conduit of sufficient diameter to permit threading the carrier pipe through it.

III. All voids caused by jacking or boring shall be filled by pressure grouting. The grout material shall consist of a sand-cement slurry of at least two sacks of cement per cubic yard and a minimum of water to assure satisfactory placement.

IV. The underground utilities shall be so installed as virtually to preclude any necessity for disturbing the roadbeds to perform maintenance operations.

V. Underground installations shall be accomplished without damaging or destroying the principal root structure of specimen trees.

LOCATION SKETCH

Show location of proposed facility in relation to the centerline of the county highway and other pertinent features such as right of way line, shoulder line, curb line and edge of surfacing. The facility should also be referenced to adjacent landlines.

LINCOLN COUNTY
DEPARTMENT OF HIGHWAYS

Utility Permit

Reference: Project _____
C.S.A.H. _____
C.R. _____

In accordance with the application herein, a utility permit is granted to _____ _____ to place, construct, and thereafter maintain _____ _____ on or across, or under the right of way of County Highway No. _____ in the location shown on the sketch, which is, a part of said application, or in such location as may be specified by the Department of Highways in the special provisions hereof.

SPECIAL PROVISIONS:

Approved _____
(date)
Board of County Commissioners
Lincoln County, Minnesota

By _____
Department Representative

COPIES TO:

Permit No. _____
Check No. _____
Check Issuer _____
Surety Bond No. _____
Bond Expiration _____
Bonding Co. _____

Minneapolis
Public Works

Utility Connections
250 South 4th Street – Room 222
Minneapolis, MN 55415
Office 612-673-2451 TTY 612-673-2157
Email PwUtility.Connections@minneapolismn.gov
www.minneapolismn.gov/publicworks/permits

Utility Connections and Meter Set Permit Application

Job and Applicant Information

Job Address:	Work Type: ◯ **Residential** ◯ **Commercial**		
Job Description (Scope of work):			
Applicant Name (Business name if contractor):	◯ **Contractor** ◯ **Property Owner**		
Address:	City:	State: **MN**	ZIP Code:
Business Phone:	Email:		
Contact Name:	Contact Phone:		

Complete this section if not licensed under applicant's name.
Master Plumber Name: License #

Water Tap Permit (Complete the following section only if you need a Water Tap Permit)

Permit Type: ☐ **Extension** ☐ **Repair** ☐ **Tap** ☐ **Cut** Estimated Feet:

New taps will require the creation of a customer billing account
Account Holder Name: Address:

Meter Set Permit (Complete the following section only if you need a Meter Set Permit)

◯ **Established Metered Account** ◯ **New Construction**

Type: ◯ **Fire** ◯ **General Supply** ◯ **Combination** Water Service Line Size:

Sewer Tap Permit (Complete the following section only if you need a Sewer Tap Permit)

Permit Type: ☐ **Extension** ☐ **Repair** ☐ **Tap** ☐ **Cut** ☐ **Warranty** Estimated Feet:

◯ **Storm** Pipe Material:
Pipe Size:

◯ **Sanitary** Pipe Material:
Pipe Size:

Utility Permit (Complete the following section only if you need a Utility Permit)

Type of Utility: ☐ **Franchise** ☐ **Major Project** ☐ **Permit Fees .illed** ☐ **Paper Plans** ☐ **After Hours Work Planned**

Type of Construction: ☐ **Chamber** ☐ **Trench** ☐ **Hole** ☐ **Boring** ☐ **Conduit** ☐ **In Existing Conduit**

Portion of Right of Way Being Used: ☐ **Driving Lane** ☐ **Parking Lane** ☐ **Boulevard** ☐ **Sidewalk**

Number of Construction Days:	Start Date:	End Date:	Estimated Feet:

Excavation Permit (Complete the following section only if you need an Excavation Permit)

Street Cut: ◯ **New Permit** ◯ **Existing Permit** ☐ **Franchise** ☐ **Permit Fees Billed**

Estimated Excavation Size: Length: Width:

CERTIFICATION STATEMENT

☐ By checking this box, I hereby certify that: I am authorized to make this application; all information provided on this application or in other submittals is true and accurate to the best of my knowledge; authorization from the owner to perform the proposed work has been granted; all work performed as part of any permit will comply with all applicable state and municipal laws and ordinances, and any required contractor license, personal license, or certificate of competency will be obtained prior to any work being performed. I understand that the issuance of a permit does not grant any contractor license, certificate of competency, business license, or other license, and unlicensed persons shall not be hired to perform work that requires a license or certificate of competency.

Submit

Revised 06/07/2018

COUNTY OF NOBLES
DEPARTMENT OF HIGHWAYS

APPL ICAT ION FOR UT I L I TY PERMI T o n COUNTY HIGHWAY RIGHT OF WAY

P.O. Box 187, 960 Diagonal Road, Worthington, MN 56187 Phone: 507-295-5322, Fax: 507-372-8348

Board of County Commissioners
Nobles County, Minnesota
Attn: County Highway Engineer

C.S.A.H._____
C.R. _____

Application is hereby made for permission to place, construct and thereafter maintain a _____ _____ along or across County Highway No. _____

from _____ to _____

_____feet from centerline on the _____(east, west, north or south) side of the county highway in accordance with the sketch shown on the inside hereof, or attached thereto.

I. AERIAL CONSTRUCTION

☐ Single pole
☐ H-Frame
☐ Single pole and H-Frame
☐ Steel tower
☐ Other _____

☐ Open wire
☐ Cable
☐ Vertical
☐ Cross-arm
☐ Vertical and cross-arm

VOLTAGE	NUMBER OF CONDUCTORS	SIZE OF CONDUCTORS

Minimum height of conductor: _____ft. along highway _____ft. at crossing over highway

EXTENT AND LOCATION OF TREE TRIMMING AND /OR CLEARING_____

II. UNDERGROUND CONSTRUCTION

CONDUIT

☐ Multiple tile
☐ Transite
☐ Clay tile

☐ Sectional concrete
☐ Steel pipe
☐ Other _____

CASING

☐ Steel pipe ☐ Sectional concrete ☐ Other _____

SIZE _____ DEPTH _____

VOLTAGE _____ NUMBER OF CONDUTORS _____ SIZE OF CONDUCTORS _____

METHOD OF INSTALLING UNDER ROADBEDS (if open trench, explain why necessary)

☐ Open trench _____
☐ Jacking ☐ Boring ☐ Pneuma Gopher

EXTENT AND LOCATION OF TREE CLEARING _____ ☐ New Facility ☐ Replacement Facility

III. Work to start on or after _____ And to be completed on or before _____

IV. The applicant in carry on any and all of the work herein above mentioned or referred to in its application and in the Permit issued herefore, shall strictly conform to the terms of such Permit, and the regulations of the Board of County Commissioners, as set forth herein together with the Special Provisions, all of which are made a part hereof. The applicant specifically agrees to be bound hereby. The applicant shall also comply the regulations of all other governmental agencies for the protection of the public. The work shall be accomplished in a manner that will not be detrimental to the highway and that will safeguard the public.

Dated this ____day of _____ , 20 _____

_____
Name of Company making application

Signature _____ By _____
Title

Address _____ Phone _____

DEFINITIONS

Utilities. Under this order "utility" shall mean and include all privately, publicly or co-operatively owned communication lines and facilities, any systems, lines and facilities for the distribution and transmission of electrical energy, oil, gas, water, sewer, steam and other pipe lines, railways, ditches, flumes or other structures which under the law of this State or the ordinance of any town or city may be constructed, placed or maintained across, along or on county highway right-of-way. Dependent upon the meaning intended in the context, "Utility" shall also mean the utility company, inclusive of any wholly owned subsidiary.

GENERAL

I. Except as otherwise permitted, utility construction and relocation on county highway right of way shall not be commenced until an application for a Permit has been made and such Permit is granted. The permit sketch shall show the location of the proposed utility with reference to county highway center line. A copy of the sketch shall be provided for each copy of such Permit.

II. Burning or disking operations and/or the use of chemicals to control or kill trees, brush and other vegetation is prohibited without prior approval from the County Highway Engineer.

III. All waterways and lines of drainage shall remain operative.

IV. Wherever topsoil and sod are disturbed they shall be replaced and maintained satisfactorily until the turf is established.

V. The utility facility and installation shall not interfere with any existing utility facilities on the county highway right of way.

VI. When necessary, barricades, warning devices and flagmen shall be provided by the Utility during all phases of their construction and maintenance operations on county right of way.

VII. At the time of construction of the utility and at the times of subsequent maintenance, prior approval shall be obtained from the County Highway Engineer for the cutting and trimming of trees within the county highway right of way. Wherever trees are cut the resulting stumps shall be removed unless otherwise provided in the Special Provisions of the Permit. Any holes caused by stump removal shall be backfilled, the area leveled and all materials associated therewith disposed of outside the county right of way. The utility shall advise the County Highway Engineer at least 48 hours in advance of its intent to start clearing and grubbing operations so that proper supervision can be provided.

VIII. The Utility shall notify the County Highway Engineer of its intent to perform service and maintenance operations, which will interfere with the flow of traffic on county highways, and shall obtain his approval prior to performing such operations. However, the Company may perform service and maintenance operations on county highways including opening and disturbing the surface of the right of way without prior approval in those instances where an emergency exists that is dangerous to the life or safety of the public and which requires immediate repair. The Utility shall take all necessary and reasonable safety measures to protect the traveling public and shall notify the County Highway Engineer at the earliest possible moment.

X. The Utility shall assume all liability for, and save the County, its agents and employees, harmless from, any and all claims for damages, actions or causes of action arising out of the work to be done herein and the continuing uses by the reconstructing, maintaining and using of said utility under this application and Permit.

XI. The Board of County Commissioners may require the Utility, or its contractor, to furnish a deposit in the form of a certified check, a surety bond or corporate undertaking, in favor of the Board of County Commissioners of NOBLES County, for any expense incurred by the County in the repairing of damage to any portion of the county highway right of way caused by work performed under a Permit, including any out of the ordinary engineering supervision and inspection expenses provided by the county. In those instances wherein a deposit is required, the amount of the deposit shall be specified in the Special Provisions of the Permit. If a check is furnished, any monies remaining over and above such expense shall be returned to the applicant.

XII. The Permit as issued does not in any way imply an easement on private property.

XIII. The installations shall be made in conformity with all applicable laws, regulations and codes covering said installations. All installations shall be made in conformity with regulations of governmental agencies for the protection of the public.

XIV. Upon completion of an installation, the Utility shall restore the county highway right of way to its original condition. The Utility shall then notify the office of the County Highway Engineer of the completion of the work so that inspection can be made to determine its acceptability.

AERIAL

I. There shall be only a single pole line on the county highway right of way on either side of the center line thereof.

II. Longitudinal installations on county highways shall normally be located in the outer five feet of the right of way. At crossing of the county highway, poles shall be placed at a minimum of thirty feet from the shoulder lines of the through roadbeds unless right of way widths are prohibitive to such location.

III. The location of all brace poles, anchors and anchor poles within the limits of the county highway right of way shall be approved by the County Highway Engineer.

IV. In those instances in which a Utility is issued a Permit or Permits for construction on both sides of the county highway right of way in a given area, such Permit is conditioned upon the Utility subsequently providing joint use to other Utilities upon reasonable terms mutually agreeable to the Utilities.

UNDERGROUND

I. All crossings of the roadbeds of the county highways shall be made by boring inside a casing or carrier pipe, or by jacking, unless this procedure is modified in the Special Provisions of this Permit. The auger shall not lead the casing or carrier pipe by more than one inch. Open trenching shall be restricted to the area 5 feet beyond the shoulder to the right of way line except as modified in the Special Provisions of the Permit.

IX. If at any time NOBLES County, acting through its Board of County Commissioners, shall deem it necessary to make any improvements or changes on all or any part of the right of way of the county highway which affect a utility located on county highway right of way, then and in such event, the owner o the utility shall within 15 days after written notice from the Board of County Commissioners, or its authorized agent, proceed to alter, change, vacate or remove said utility from the county highway right of way so at to conform to said county highway changes and as directed by the Board of County Commissioners. Such work shall be done without any cost whatsoever to NOBLES County harmless from any and all claims of damage of any nature whatsoever occasioned by reason of not having removed said utility within the time specified in said notice.

II. When pipes with bells or flanges are installed, the crossings of the roadbeds of the county highway shall be made by boring inside a conduit as provided in paragraph I of this section or jacking a conduit of sufficient diameter to permit threading the carrier pipe through it.

III. All voids caused by jacking or boring shall be filled by pressure grouting. The grout material shall consist of a sand-cement slurry of at least two sacks of cement per cubic yard and a minimum of water to assure satisfactory placement.

IV. The underground utilities shall be so installed as virtually to preclude any necessity for disturbing the roadbeds to perform maintenance operations.

V. Underground installations shall be accomplished without damaging or destroying the principal root structure of specimen trees.

Location Sketch

Show location of proposed facility in relation to the centerline of the county highway and other pertinent features such as right of way line, shoulder line, curb line and edge of surfacing. The facility should also be referenced to adjacent land lines.

NOBLES COUNTY
DEPARTMENT OF HIGHWAYS

UTILITY PERMIT

Reference: Project _____
C.S.A.H _____
C.R. _____

In accordance with the application herein, a Utility Permit is granted to _____ _____ to place, construct and thereafter maintain _____ _____ on or across, or under the right of way of County Highway No. _____ in the location shown on the sketch which is a part of said application, or in such location as may be specified by the Department of Highways in the Special Provisions hereof.

SPECIAL PROVISIONS:

A permit fee in the amount of $ _____, payable to the Nobles County Auditor-Treasurer is required.

Payment for permit fee received _____.

Approved _____
(date)
Board of County Commissioners
Nobles County, Minnesota

By _____
County Highway Engineer

Permit No._____
Certified Check No. _____
Surety Bond No. _____
Date of S. Bond or C. Check _____
Bank or Bonding Co. _____
Deposit Made by _____

COPIES:

Utility/ROW Utility Permit Permit# 2019-072, UID# 16013
Valid: 06/24/2019 - 09/30/2019

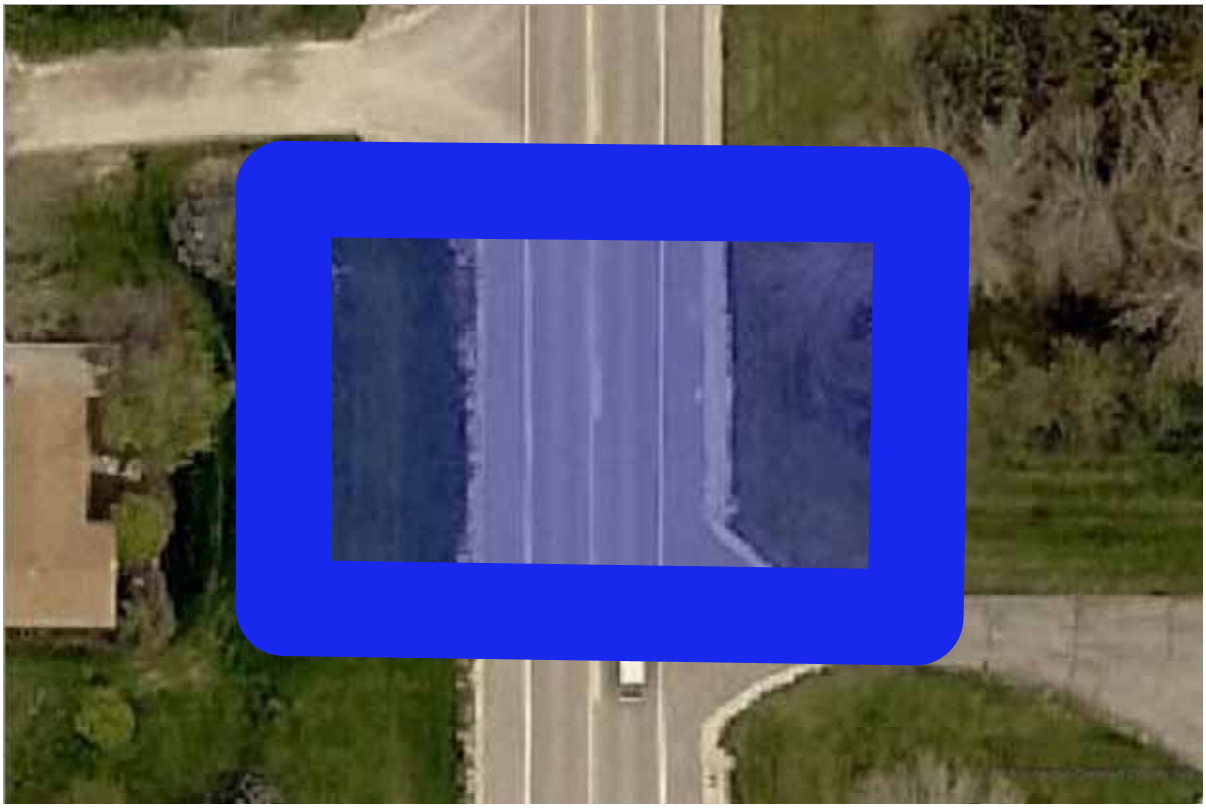
507-328-7060
1188 50th Street SE
Rochester, MN 55904

Information

Aerial or Underground?	Underground
Construction Description:	Install primary electric underground cable across r/w, remove overhead line
Construction Dates:	06/24/2019 to 09/30/2019

Location

Map:



City/Twp: High Forest

Site(s):

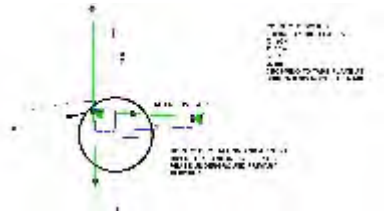
	Road	Length	From	To	Shortest distance from centerline	Relative to Road
	8	0 mi 158 ft	Ex. pole on west r/w, then south 50 ft, then east	to east r/w	5 ft	Under Road (Crossing Roadway)

Underground

Underground type:	-- Other --: electric line
Conduit/casing type:	PVC - Plastic
Method of installation:	Boring
Conductors:	1
Conductor size:	1/0
Depth:	5' @ x'ing, & 42"
Voltage:	7.2kV

Sketch / Site Plan

Upload sketch:



File 1: PEC_CR_8_2019.JPG

Applicant

Applicant name:

Name:
Brian Engen
Company name:
People's Energy Cooperative
Title:
Field Engineer
Phone:
(507) 273 - 3272
Company phone:
(507) 367 - 7000
Email:
bengen@peoplesrec.com
Company address:
1775 Lake Shady Ave S.
Oronoco MN 55960

Road Number(s): 8

Contractor

Contractor name:

Name:
Chad Eide
Company:
Mastec
Phone:
(507) 259 - 9113
Email:
chad.eide@mastec.com
Address:
7004 11th ave sw
Rochester MN 55902

Terms

DEFINITIONS

Contractor - An individual or company which supplies materials and equipment and/or performs services in construction activities such as the erection, maintenance or repair of roadways or structures, the development of improvements such as sewer, water and streets, or specialized activities such as landscaping, painting, plumbing and the like.

County - Shall mean Olmsted County, its employees, successors, agents or assigns.

Utility - Under this order utility shall mean and include all privately, publicly or cooperatively owned communication lines and facilities, any systems, lines and facilities for the distribution and transmission of electrical energy, oil, gas, water, sewer, steam and other pipe lines, cable television, Internet service, railways, ditches, flumes or other structures which under the laws of this State or the ordinance of any city or township may be constructed, placed or maintained across, along or on county highway right of way. Dependent upon the meaning intended in the context, Utility shall also mean the utility company, inclusive of any wholly owned subsidiary. A Utility shall also mean and include all pedestrian accommodations or miscellaneous structures.

GENERAL

Except as otherwise permitted, utility construction and relocation on county right of way shall not commence until an application for a Permit has been made and such Permit approved. The Permit process shall not begin prior to payment of the permit fee in full. The permit fee may be waived if the utility work is associated with a County project.

A separate permit is required for each road the proposed utility will be locate on and/or crossing.

No work shall be allowed on Sundays or legal holidays without prior consent of County.

Pedestrian accommodations shall not be used to park equipment on or as access roads to a construction project.

Any utility infrastructure being placed within the right of way which is not completely flush with the ground around it including, but not limited to manholes, hand holes, splice boxes, etc? shall be permanently marked with a post, sign, or marker approved in advance by Olmsted County which is a minimum of 5 feet in height and is comprised of highly visible materials.

The permit sketch or construction plans shall show the location of the proposed construction work with dimensions to highway centerline and right of way line. The proper right of way width shall be indicated. A copy of the sketch shall be attached to each copy of such permit. The sketch shall be of a scale that lines and dimensions are clearly legible and defined. Utility lines, manholes, handholes, splice boxes, etc? shall not be located in the ditch bottom and/or the in-slope or shoulder. Proposed work shall be located three (3) feet or less from the edge of the right of way, unless approved by County at an alternate location. County and MN/DOT Right of Way Plats and Subdivision Plats are available through the web link provided in the REFERENCE section of this permit.

The utility or contractor shall notify the County at least 2 business days in advance of the actual commencement of the work at the site within the right of way at 507-328-7060.

Utility shall be responsible for the actions and operations of any contractor it may hire to assist with the project, including but not limited to traffic control, installation location, depth, safety requirements to protect workers as well as the public, restoration of disturbed ground cover, conformance with permit requirements and final cleanup.

Tree and/or vegetation removal operations where needed shall be the responsibility of the Utility at its cost and shall be approved prior to start of operation. All waterways and drainage lines shall remain operative. Wherever topsoil and sod are disturbed, they shall be replaced and maintained until the turf is established in accordance with Specification 2575 of MN/DOT Standard Specifications for Highway Construction, Current Edition.

The utility infrastructure and installation project shall not interfere with any existing utility infrastructure on the County right of way. Any deviation of two (2) feet or more from the approved location requires utility to notify the County prior to said deviation. ?As-built? plans shall be submitted to show deviation location.

The design and placement of all signs, barricades, and other warning devices shall conform to the current Minnesota Manual of Uniform Traffic Control Devices (MN MUTCD). When necessary, barricades, warning devices and flaggers shall be provided by the utility during any phases of their construction and maintenance operations on County right of way. The work zone traffic control layout shall be submitted with the permit request. Work zone traffic control layouts are available at the web link provided in the REFERENCE section of this permit.

At the time of construction of the utility infrastructure and at the times of subsequent maintenance, prior approval shall be obtained from the County for the cutting and trimming of trees within the County right of way. Wherever trees are cut, the resulting stumps shall be removed unless otherwise provided in the Special Provisions of the Permit. Any holes caused by stump removal shall be backfilled, leveled and all materials associated therewith disposed of outside the County right of way. The utility shall advise the County at least 48 hours in advance of its intent to start clearing and grubbing operations.

The utility shall notify the County, at least 2 business days, of its intent to perform service and maintenance operations which will interfere with the flow of traffic on county highways, and shall obtain approval prior to performing such operations. However, the utility may perform service and maintenance operations on county highways including opening and disturbing the surface of the right of way without prior approval in those instances where an emergency exists that is dangerous to the life or safety of the public and which requires immediate repair. The utility shall take all necessary and reasonable safety measures to protect the traveling public and shall apply for the necessary permit within 2 business days after the emergency occurrence. A permit is not required if the repair is caused by another Permittee?s work in the right of way.

If at any time the County shall deem it necessary to make any improvements or changes on all or any part of the county right of way, the owner of the utility shall within 15 days, after issuance of written notice by the County, proceed to alter, change, vacate or remove said utility from the county right of way so as to conform to said changes. Such work shall be done without any cost whatsoever to the County and shall be fully completed within the date specified in said written notice. If work cannot be completed within the dates specified, a request for an extension must be made in writing to the County.

The utility and any contractor hired by the utility shall assume all liability for, and hold the County, harmless from, any and all claims for damages, actions or causes of action arising out of the work to be done herein and the continuing uses by the Utility, including but not limited to the placing, constructing, reconstructing, maintaining and using of said utility under this application and permit.

The permit as issued does not in any way imply an easement on public or private property. The permit does not convey any property rights within the highway right of way to the permittee. If the highway right of way covered by this permit needs to be used or changed, the Utility or its assigns shall move, remove, or change the improvements described in this permit as approved in writing by the County and without any obligation to the County.

The Installations shall be made in conformity with all applicable laws, regulations and codes covering said installations. All installations shall be made in conformity with regulations of federal, state and local governmental agencies with jurisdiction over the work to be done for the protection of the public.

Upon completion of an installation, the utility shall immediately restore the right of way to its original condition or better. The County shall be notified within 5 business days of completion for final inspection through the e Permitting site.

Except in an emergency, any utility or contractor who, without first having obtained the necessary permit, obstructs or excavates a right of way must subsequently obtain a permit, and then must pay double the normal fee for said permit.

The County may deny a permit for failure to meet the requirements and conditions of the permit or if the County determines that the denial is necessary to protect the public health, safety, and welfare or when necessary to protect the right of way and its current and future use. The County may deny a permit if the utility has failed to comply with conditions established on previous permit, either on the right of way in question or on other right of ways located elsewhere in the County.

The utility is responsible for all costs related to work which must be performed by the County to restore the site to the condition prior to work within the county right of way in the event the faulty condition causes a public health or safety issue.

The utility is responsible for requesting a time extension when a permit will expire before the work contemplated will be completed. Performing work with an ?Expired? permit will be treated as working without a permit.

A permit shall not be approved for more than a 6 month period, unless previously agreed by the County. If no work has been completed within a 12 month period, the permit will be considered ?Expired? and the utility will need to apply for a new permit.

OPEN TRENCH

Open trenching in roadways will not be allowed unless no other method will work and only after adequate justification to the satisfaction of the County. Trenches in roadways will not be allowed to remain open overnight without prior written consent from the County.

Trench excavations in roadway shall be backfilled with a minimum of 18" of sand or shall replicate existing conditions Class 5 base shall be replaced to a minimum depth of 9 inches or shall replicate existing conditions. Compaction of these materials shall be in accordance with the Quality Compaction Method for compacting embankments, Specification 2105 of MN/DOT Standard Specifications for Highway Construction, Current Edition.

Any removed bituminous surfacing shall be replaced to a minimum depth of 6 inches (placed and compacted in 2? lifts) with the Ordinary Compaction Method in accordance with MN/DOT's combined Specification 2360 asphalt pavement.

Any removed concrete surfacing shall be replaced as per Utility Trench Full Depth Repair Type C2-LV, MN/DOT Standard Detail, Current Edition.

UNDERGROUND

All crossings made in the roadbeds of the county right of ways shall be made by boring inside a casing or carrier pipe, by jacking, or by directional boring unless this procedure is modified in the Special Provisions of the Permit. The auger shall not lead the casing or carrier pipe by more than one inch. The bore pits shall be restricted to the area extending from 5 feet beyond the shoulder of the road except as modified in the Special Provisions of the Permit.

When pipes with bells or flanges are installed, the crossings of the right of way shall be made by boring inside a conduit as provided in paragraph 1 of this section or jacking a conduit of sufficient diameter to permit threading the carrier pipe through it.

All voids caused by jacking or boring shall be filled by pressure grouting. The grout material shall consist of sand-cement slurry of at least two sacks of cement per cubic yard and a minimum of water to assure satisfactory placement.

The underground utilities shall be so installed to preclude any necessity for disturbing the roadbeds to perform maintenance operations to the maximum extent possible.

Underground installations shall be accomplished without damaging or destroying the principal root structure of a tree.

Invoice #14590 (06/14/2019)

Charge	Cost	Quantity	Total
Utility Permit added 06/14/2019 8:59 AM Application Fee	$250.00	x 1	$250.00
Grand Total			
		Total	**$250.00**
		Payment 06/14/2019	**$250.00**
		Due	**$0.00**

Special Provisions

- Notify Travis Martin (martin.travis@co.olmsted.mn.us) or Jeremy Douglas (douglas.jeremy@co.olmsted.mn.us) by email or at 507-328-7060 prior to starting work.
- Turf establishment shall commence immediately after installation.
- Signs and any traffic control shall meet the requirements of the MN MUTCD
- The contractor shall have a copy of the permit on site at all times
- All pedestals, manholes, handholes, etc... shall be marked with a permanent high visibility marker.
- Mark permit complete once work is finished to initiate final inspection.

Approvals

Approval	Signature
Applicant	Brian Engen - 06/14/2019 8:59 AM 6756d4322eeec70beffe232f3338bbd0 b5c8da058562be0da98e4ef65a231085
#1 Permits/Travis Martin	Travis Martin - 06/17/2019 7:50 AM dde046c229c9d8f873078b8a34b1947f 15f6ee4b06acfabd5aa0e34b632bb2b6
#2 Right of Way / Jeremy Douglas	Jeremy D. Douglas - 06/17/2019 8:18 AM 15715bd07da361065a15789a8f63829e 7f9c623e7fdd88701624bc90c1b1a2be
#3 Utility Permit Manager/Dale Prestegard	Dale Prestegard - 06/19/2019 6:28 AM 27a08cac1731e86ae602baa27a13fc89 b7cc48b8aefc6b27dce1d72358fc0c3c

Print View

Utility/ROW Utility Permit Permit# 2019-072, UID# 16013
Valid: 06/24/2019 - 09/30/2019

507-328-7060
1188 50th Street SE
Rochester, MN 55904

Information

Aerial or Underground?	Underground
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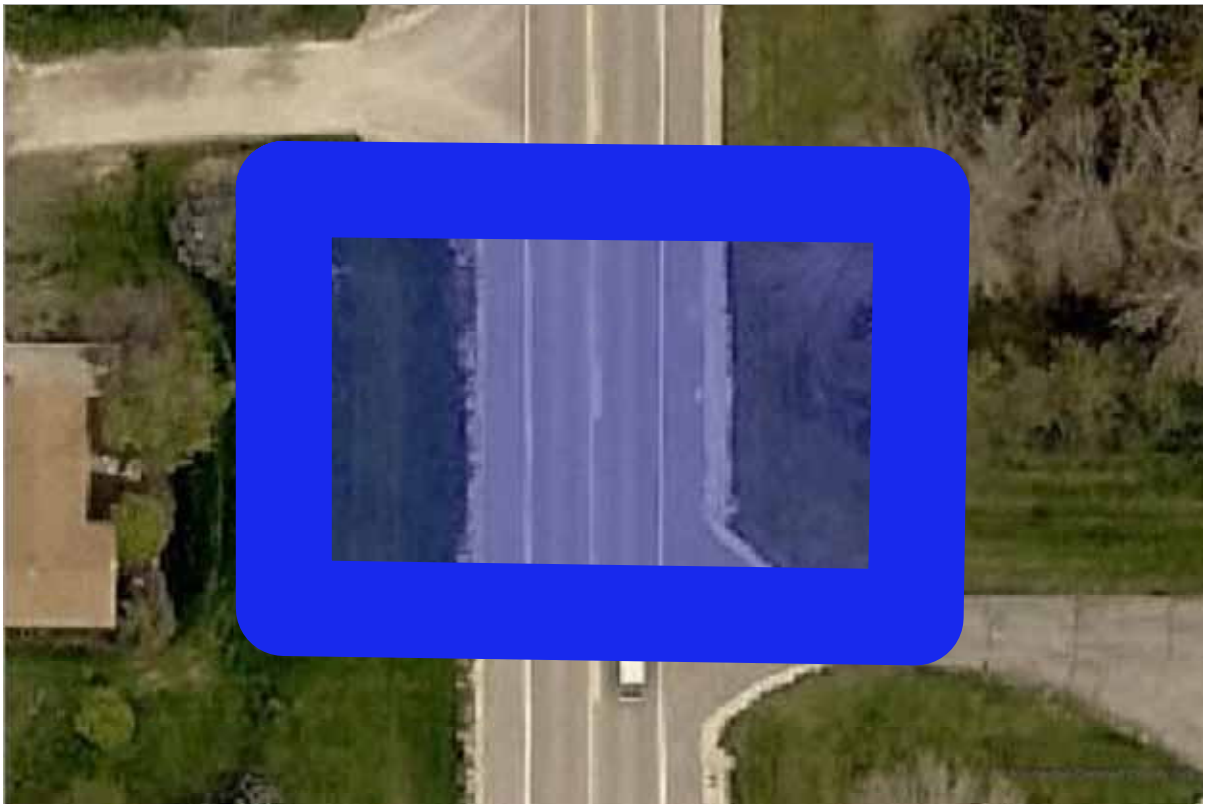

City/Twp: High Forest

Site(s):

	Road	Length	From	To	Shortest distance from centerline	Relative to Road
	8	0 mi 158 ft	Ex. pole on west r/w, then south 50 ft, then east	to east r/w	5 ft	Under Road (Crossing Roadway)

Underground

Underground type:	-- Other --: electric line
Conduit/casing type:	PVC - Plastic
Method of installation:	Boring
Conductors:	1
Conductor size:	1/0
Depth:	5' @ x'ing, & 42"
Voltage:	7.2kV

Sketch / Site Plan

Upload sketch:

File 1: PEC_CR_8_2019.JPG

Applicant

Applicant name:

Name:
Brian Engen
Company name:
People's Energy Cooperative
Title:
Field Engineer
Phone:
(507) 273 - 3272
Company phone:
(507) 367 - 7000
Email:
bengen@peoplesrec.com
Company address:
1775 Lake Shady Ave S.
Oronoco MN 55960

Road Number(s): 8

Contractor

Contractor name:

Name:
Chad Eide
Company:
Mastec
Phone:
(507) 259 - 9113
Email:
chad.eide@mastec.com
Address:
7004 11th ave sw
Rochester MN 55902

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Invoice #14590 (06/14/2019)

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		Payment 06/14/2019	**$250.00**
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Special Provisions

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- Turf establishment shall commence immediately after installation.
- Signs and any traffic control shall meet the requirements of the MN MUTCD
- The contractor shall have a copy of the permit on site at all times
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- Mark permit complete once work is finished to initiate final inspection.

Approvals

Approval	Signature
Applicant	Brian Engen - 06/14/2019 8:59 AM 6756d4322eeec70beffe232f3338bbd0 b5c8da058562be0da98e4ef65a231085
#1 Permits/Travis Martin	Travis Martin - 06/17/2019 7:50 AM dde046c229c9d8f873078b8a34b1947f 15f6ee4b06acfabd5aa0e34b632bb2b6
#2 Right of Way / Jeremy Douglas	Jeremy D. Douglas - 06/17/2019 8:18 AM 15715bd07da361065a15789a8f63829e 7f9c623e7fdd88701624bc90c1b1a2be
#3 Utility Permit Manager/Dale Prestegard	Dale Prestegard - 06/19/2019 6:28 AM 27a08cac1731e86ae602baa27a13fc89 b7cc48b8aefc6b27dce1d72358fc0c3c

Print View

APPLICATION FOR UTILITY PERMIT ON COUNTY HIGHWAY RIGHT OF WAY

Application is hereby made for permission to place, construct and thereafter maintain a _____ _____ along or across county highway _____ from _____ _____ to _____ _____ feet from center line on the _____ (east, west, north or south) side of the county highway in accordance with the sketch shown on the inside hereof, or attached thereto.

I. AERIAL CONSTRUCTION (Check one)

☐ Single pole ☐ Open wire ☐ Vertical
☐ H-Frame ☐ Cable ☐ Cross-arm
☐ Single pole & H-Frame ☐ Steel tower ☐ Vertical & cross-arm
☐ Other _____

VOLTAGE	NUMBER OF CONDUITS	SIZE OF CONDUITS

Minimum height of conductor: _____ ft. along highway _____ ft. at crossings over highway

EXTENT & LOCATION OF TREE TRIMMING AND/OR CLEARING:

II. UNDERGROUND CONSTRUCTION

CONDUIT

☐ Multiple tile ☐ Sectional concrete
☐ Transite ☐ Steel pipe
☐ Clay tile ☐ Other _____

CASING

☐ Steel pipe ☐ Sectional concrete ☐ Other _____

SIZE	DEPTH

VOLTAGE	NUMBER OF CONDUITS	SIZE OF CONDUITS

Minimum height of conductor: _____ ft. along highway _____ ft. at crossings over highway

EXTENT & LOCATION OF TREE TRIMMING AND/OR CLEARING:

METHOD OF INSTALLING UNDER ROADBEDS (if open trench, explain why necessary)

☐ Open trench _____
☐ Jacking ☐ Boring

III. Work to start on or after _____ and to be completed on or before _____

IV. The applicant in carrying on any and all of the work herein above mentioned or referred to in its application and in the Permit issued herefore, shall strictly conform to the terms of such Permit, and the regulations of the Pipestone County Board of Commissioners, as set forth herein together with the Special Provisions, all of which are made a part hereof. The applicant specifically agrees to be bound hereby. The applicant shall also comply with the regulations of all other governmental agencies for the protection of the public. The work shall be accomplished in a manner that will not be detrimental to the highway and that will safeguard the public.

Dated this _____ day of _____. _____
(Name of Company making application)

Signature _____ By _____
Title

Address _____

Rules and Regulations for Utilities on County Highways

DEFINITIONS

Utility. Under this order "utility" shall mean and include all privately or co-operatively owned communication lines and facilities, any systems, lines and facilities for the distribution and transmission of electrical energy, oil, gas, water, sewer, steam and other pipe lines, railways, ditches, flumes or other structures which under the laws of this State or the ordinance of this County, any Village or City may be constructed, placed or maintained across, along or on county highway right of way. Dependent upon the meaning intended in the context, "Utility" shall also mean the utility company, inclusive of any wholly owned subsidiary.

GENERAL

I. Except as otherwise permitted, utility construction and relocation on county highway right of way shall not be commenced until an application for a Permit has been made and such Permit granted. The Permit sketch shall show the location of the proposed utility with reference to county highway center line. A copy of the sketch shall be provided for each copy of such Permit.

II. Burning or disking operations and/or the use of chemicals to control or kill trees, brush and other vegetation is prohibited without prior approval from the County Highway Engineer.

III. All waterways and lines of drainage shall remain operative.

IV. Wherever topsoil and sod are disturbed they shall be replaced and maintained satisfactorily until the turf is established.

V. The utility facility and installation shall not interfere with any existing utility facilities on the county highway right of way.

VI. When necessary, barricades, warning devices and flaggers shall be provided by the Utility during all phases of their construction and maintenance operations on county highway right of way.

VII. At the time of construction of the utility and at the times of subsequent maintenance, prior approval shall be obtained from the County Highway Engineer for the cutting and trimming of trees within the county highway right of way. Wherever trees are cut the resulting stumps shall be removed unless otherwise provided in the Special Provisions of the Permit. Any holes caused by stump removal shall be backfilled, the area leveled and all materials associated therewith disposed of outside the county highway right of way. The Utility shall advise the County Highway Engineer at least 48 hours in advance of its intent to start clearing and grubbing operations so that proper supervision can be provided.

VIII. The Utility shall notify the County Highway Engineer of its intent to perform service and maintenance operations which will interfere with the flow of traffic on county highways, and shall obtain his approval prior to performing such operations. However, the Company may perform service and maintenance operations on county highways including opening and disturbing the surface of the right of way without prior approval in those instances where an emergency exists that is dangerous to the life or safety of the public and which requires immediate repair. The Utility shall take all necessary and reasonable safety measures to protect the traveling public and shall notify the County Highway Engineer at the earliest possible moment.

IX. If at any time Pipestone County deems it necessary to make any improvements or changes on all or any part of the right of way of the county highway which affect a utility located on the right of way , then and in such event, the owner of the utility shall within 15 days after written notice from Pipestone County , proceed to alter, change , vacate or remove said utility from the county highway right of way so as to conform to said county highway changes and as directed by the County Highway Engineer. Such work shall be done without any cost whatsoever to Pipestone County and shall be completed within the date specified in said written notice. The Utility shall assume all liability and save Pipestone County harmless from any and all claims of damage of any nature whatsoever occasioned by reason of not having removed said utility within the time specified in said notice.

X. The Utility shall assume all liability for, and save the County, its agents and employees, harmless from, any and all claims for damages, actions or causes of action arising out of the work to be done herein and the continuing uses by the Utility, including but not limited to the placing, constructing, reconstructing, maintaining and using of said utility under this application and Permit.

XI. Pipestone County may require the Utility, or its contractor, to furnish a deposit in the form of a certified check, a surety bond or corporate undertaking, in favor of Pipestone County, for any expense incurred by the County in the repairing of damage to any portion of the county highway right of way caused by work performed under a Permit, including any out of the ordinary engineering supervision and inspection expense provided by the County. In those instances wherein a deposit is required the amount of the deposit shall be specified in the Special Provisions of the Permit. If a check is furnished, any monies remaining over and above such expense shall be returned to the applicant.

XII. The Permit as issued does not in any way imply an easement on private property.

XIII. The installations shall be made in conformity with all applicable laws, regulations and codes covering said installations. All installations shall be made in conformity with regulations of governmental agencies for the protection of the public.

XIV. Upon completion of an installation, the Utility shall restore the county highway right of way to its original condition. The Utility shall then notify the office of the County Highway Engineer of the completion of the work so that inspection can be made to determine its acceptability.

AERIAL

I. There shall be only a single pole line on the county highway right of way on either side of the center line thereof.

II. Longitudinal installations on county highways shall normally be located in the outer five feet of the right of way. At crossings of the county highway, poles shall be placed at a minimum of thirty feet from the shoulder lines of the through roadbeds unless right of way widths are prohibitive to such location.

III. The location of all brace poles, anchors and anchor poles within the limits of the county highway right of way shall be approved by the County Highway Engineer.

IV. In those instances in which a Utility is issued a Permit or Permits for construction on both sides of the county highway right of way in a given area, such Permit is conditioned upon the Utility subsequently providing joint use to other Utilities upon reasonable terms mutually agreeable to the Utilities.

UNDERGROUND

I. All crossings of the roadbeds of the county highways shall be made by boring inside a casing or carrier pipe, or by jacking, unless this procedure is modified in the Special Provisions of the Permit. The auger shall not lead the casing or carrier pipe by more than one inch. Open trenching shall be restricted to the area five feet beyond the shoulder to the right of way line except as modified in the Special Provisions of the Permit.

II. When pipes with bells or flanges are installed, the crossings of the roadbeds of the county highways shall be made by boring inside a conduit as provided in paragraph I of this section or jacking a conduit of sufficient diameter to permit threading the carrier pipe through it.

III. All voids caused by jacking or boring shall be filled by pressure grouting. The grout material shall consist of a sand-cement slurry of at least two sacks of cement per cubic yard and a minimum of water to assure satisfactory placement.

IV. The underground utilities shall be so installed as virtually to preclude any necessity for disturbing the roadbeds to perform maintenance operations.

V. Underground installations shall be accomplished without damaging or destroying the principal root structure of specimen trees.

LOCATION SKETCH

Show location of proposed facility in relation to the center line of the county highway and other pertinent features such as right of way line, shoulder line, curb line and edge of surfacing. The facility should also be referenced to adjacent land lines.

Approved by: * _____ _____
Pipestone County Highway Department Date

* Permit is not valid without this signature

RAMSEY COUNTY
Public Works

PERMIT NUMBER	
RD#:	SEG:

EXCAVATION OR OBSTRUCTION PERMIT APPLICATION

RAMSEY COUNTY PUBLIC WORKS
1425 Paul Kirkwold Drive, Arden Hills, MN 55112
(E-mail) pwpermits@co.ramsey.mn.us
Phone: 651-266-7186 Fax: 651-266-7188

ALL APPLICANTS MUST BE REGISTERED PRIOR TO PERMIT APPROVAL

Applicant Name	Company Name	Phone No.:
		E-mail:

Billing Address: Street	City	State	Zip code

Registration Number	Project Number	**Attach 1 set of Engineer grade construction plans (11x17) to the application. Maximum length per permit is 5280 feet (1 mile). One permit per Road. All applicants must be registered prior to permit approval.**

CONSTRUCTION INFORMATION

Type of Utility:	Description of proposed work:

LOCATION OF PROPOSED WORK / **STARTING POINT TO END POINT**

Address or Street	City	Nearest intersection	From:
			To:

EXCAVATION INFORMATION / **CONSTRUCTION SCHEDULE**

Type of Excavation	Excavation size	Area excavation will disturb	Type of surface disturbed	Work Dates
☐ Bore: ft ☐ Trench: ft ☐ Hole ☐ Other:	Width: ft Length: ft Depth: ft	☐ Driving Ln. ☐ Parking Ln. ☐ Sidewalk/Path ☐ Boulevard	☐ Asphalt ☐ Concrete ☐ Grass ☐ Other:	Start Date: End Date: Delay Penalties will be enforced

OBSTRUCTION INFORMATION / **CONSTRUCTION SCHEDULE**

Right of Way being obstructed	Obstruction size	Hours of Obstruction	
☐ Driving Ln. ☐ Parking Ln. ☐ Sidewalk/Path ☐ Boulevard	Width: ft Length: ft	Start time: End time:	Start Date: End Date: Delay Penalties will be enforced

I, the undersigned, herewith make application for permission to excavate/obstruct at the above location. (1) The said excavation/obstruction shall conform with the regulations of Ramsey County Department of Public Works and to any special provisions contained below and on page 2. (2) This permit is conditioned upon replacement or restoration of the County right of way to its original or satisfactory condition. (3) This permit is issued subject to the applicant's compliance with the rules and regulations of the local city or township authorities and any other affected governmental agencies. (4) This permit as issued does not in any way imply an easement on public or private property. (5) This permit does not convey any property rights within the right of way to the permittee. (6) This permit does not authorize any activity on privately owned property or public rights-of-way not under the control and jurisdiction of Ramsey County.

APPLICANT MUST SIGN		**Date:**

DO NOT WRITE BELOW THIS LINE

SPECIAL PROVISIONS: _____

PROPER TRAFFIC CONTROL DEVICES AND PROCEDURES SHALL BE USED. ALL TRAFFIC CONTROL DEVICES, BARRICADES, FLASHERS, ETC. SHALL BE FURNISHED BY THE PERMITTEE AND SHALL BE DEPLOYED IN ACCORDANCE WITH THE CURRENT EDITION OF THE MINNESOTA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES AND THE MNDOT TEMPORARY TRAFFIC CONTROL ZONE LAYOUTS FIELD MANUAL.

Permission is hereby granted for the work as described in the above application.

Authorized Signature:	Date:	**PERMIT FEE:**	Payment:
		$	☐ Check # _____ ☐ Billed ☐ Waived

24 HOUR NOTICE IS REQUIRED

PERMIT REQUIREMENTS

1) A copy of this permit shall be located on the job site whenever work is taking place.
2) No work in connection with this application shall be started until the application is approved and the permit issued.
3) The permittee shall notify the Ramsey County right of way inspector at 651-266-7186 24 hours before the work begins.
4) Work Hours: The permittee shall not work within the Ramsey County roadway surface during (6:00-9:00) AM or (3:00-6:00) PM traffic rush hour periods nor before sunrise or after sunset, unless authorized by Ramsey County. NO WORK PERMITTED WITHIN ROADWAY SURFACE DURING: Winter (November 15 through April 15), or Saturdays, Sundays and holidays unless daily "Special Permission" is obtained from Ramsey County.
5) The excavation and/or installation of facilities shall be surveyed by the permittee to ensure correct placement within Ramsey County right of way. The permittee is required to preserve all existing survey monuments.
6) The permittee shall not use Ramsey County right of way to stage and/or store equipment or materials without written permission from Ramsey County.
7) No foreign material such as dirt, gravel, concrete, or bituminous material shall be left or deposited on the roadway. If material is tracked onto the roadway, it shall be removed immediately.
8) Any debris generated due to work must be removed from the county right of way within 24 hours.
9) All culverts, ditches, shoulders and backslopes shall be restored to their original condition unless otherwise directed by Ramsey County. Shoulders which have been previously constructed or reconstructed with special materials shall be replaced in kind. Restoration of signs, guardrails, guard posts, etc. are the sole responsibility of the permittee and shall be restored to their original condition or to the satisfaction of Ramsey County.
10) The permittee shall stabilize any drainage ditch or swale within 24 hours.
11) Restoration of disturbed areas shall be completed (i.e. seeded, mulched, and anchored or sod) with the proper erosion control, including temporary erosion control as needed, within 7 days and maintained until the new turf is established.
12) OSHA compliant safety vests shall be worn by anyone occupying Ramsey County right of way.

13) SECTION CORNER MONUMENTS:
    a) Excavation locations shall not interfere with the location of any section, quarter, witness or right of way monuments. For questions, contact the Ramsey County Surveyor's office at 651-266-7100.
    b) The permittee shall be responsible for replacement of any existing property irons disturbed during construction.
    c) The permittee shall notify the Ramsey County Surveyor's office 3 working days in advance of any anticipated disturbance of any benchmarks, section, quarter, witness or right of way monuments.
    d) If Ramsey County determines survey monuments have been disturbed during construction activities, the permittee shall accept full responsibility for all costs incurred to re-establish these monuments.

13) OTHER PROVISIONS

City of Rochester Right of Way Permit

201 4th Street SE, Rochester, MN 55904 (507) 328-2400 Fax: (507) 328-2401

Applicant _____
Person Performing Work _____
License # _____
Registration # _____ Fax _____
Contact Person _____
Contact Phone # _____ Cell # _____

Property Owner _____
Address - Location _____
_____
Lot _____ Block _____
Subd.
Pin #

Permit Requested

- ☐ Street/Alley Obstruction
- ☐ Boulevard Obstruction
- ☐ Construction Noise Ord.
- ☐ Sewer Connection
- ☐ Water Connection
- ☐ Storm Water Connection
- ☐ Sidewalk Construction
- ☐ Driveway Construction
- ☐ General Utility (Gas, Electric, Phone, Cable, etc

*** 2 year warranty for all work**

OFFICE USE ONLY

Permit is Valid
_____ to _____

Permit # _____

Payment Made
_____

Describe Work to be Performed

_____
_____
_____

Work Schedule Work to commence on/after _____ Work to be completed by _____

Traffic (If applicable) Street closure on _____ Reopen street by _____
☐ Detouring route _____

Installation Methods ☐ Open Trench ☐ Boring ☐ Jacking ☐ Other _____

Installation Materials

_____ Plastic Pipe _____ Sanitary Service ☐ Plastic ☐ Clay ☐ Cast Iron
_____ Subdrain _____ Storm Sewer _____ Copper Water Service _____ Ductile Iron
_____ Fiber Optic _____ Coaxial Cable _____ Copper/Plastic Gas line _____ Copper Wire
Concrete ☐ SW ☐ DR _____ Bituminous Path _____ Other Material _____

Installation Location/Size _____ Width/Diameter _____ Length of installatio _____ Depth
☐ Blvd to Building ☐ Main to Blvd ☐ Main to Building ☐ Other _____

Installation Purpose ☐ New installation ☐ Replacement ☐ Repair ☐ Disconnect/Abandon

Restoration Areas ☐ Curb & Gutter ☐ Sidewalk ☐ Roadway ☐ Boulevard/Vegetation

Services Are Stubbed Beyond Curb Box ☐

Permit Issuance

Owners/Applicant's Signature (Utility Permits Only) _____ Dated _____
Contractor's Signature (Utility Permits Only) _____ Dated _____
City Traffic Engineer (Detours/Closure Only) _____ Dated _____
City Signature _____ Dated _____
Notes: _____
_____
_____

Sidewalk Stakes Requeste ☐

Owner, Applicant, Contractor hereby agrees to comply with the ordinances of the City of Rochester and the engineering standards of the Public Works Department, regulations of the State of Minnesota and the Federal Government and also agrees to the additional requirements/regulations, noted on page 2 of this permit, and is responsible for signing per MN MUTCD ADA Compliant.

RECEIPT

- ☐ Street/Alley Obstruction
- ☐ Boulevard Obstruction
- ☐ Construction/Noise Ordinance
- ☐ Sewer Connection
- ☐ Water Connection
- ☐ Storm Water Connection
- ☐ Sidewalk Construction
- ☐ Driveway Construction
- ☐ General Utility (Gas, Electric Phone, Cable, etc.)

Permit # _____
Valid from _____ to _____
Applicant _____
#Error
Entered By:

City of Rochester Right of Way Permit

REGULATIONS

Note: *The following regulations apply to and are conditions of the permit issued as a result of this application.*

GENERAL

1. The permit is revocable in nature. If the City shall make any improvements or change on all or part of its ROW which impacts Applicant's installation, then and in every case the applicant herein named shall, after notice from the City or its authorized agents, proceed to alter, change, vacate or remove from ROW said installation necessary to conform with said changes. Any work performed by the Applicant as a result of City's ROW-modification shall be at Applicant's sole cost and expense.
2. The Applicant shall assume all liability for, and save the City, its agents and employees, harmless from, any and all claims for damages, actions or causes of action arising out of the work to be done herein and the continuing uses by the Applicant, including but not limited to the placing, construction, reconstructing, maintaining and using of said utility under this application and permit.
3. ROW shall be cleaned up after work is completed.
4. No work shall be done in such a manner as to create or maintain a nuisance.
5. After Applicant completes its work in the ROW, Applicant must notify the City Engineer within 2 working days that such work has been completed and is ready for final inspection. Call Mike Glenzinski at 328-2400 for inspection request.
6. A certified check or deposit may be required to ensure proper restoration of surfaces and to cover payment for any damage to street or public property.
7. Permittee warrants all work, including settlement of backfill, for 2 years.

SAFETY

1. Applicant shall erect safety devices for the protection of the work and the safety of the public that conform to the requirements of the Manual of the Uniform Traffic Control Devices.
2. Blasting is not permitted unless prior approval is given by the City.
3. For trenching operations it is Applicant's responsibility to be familiar with and follow the provisions of the Department of Labor and Industry Occupational Safety and Health Rules.
4. Contractor shall notify area utilities through the state wide Gopher One Call 800-252-1166 prior to any excavation.
5. Permittee agrees to abide by the MUTCD traffic standards.

ROADWAY, SIDEWALK, AND BOULEVARD REPLACEMENT

1. Installation of pipe under concrete or high type bituminous pavements shall be done by jacking or boring unless trenching is specifically permitted in the Special Provision of the Permit.
2. All backfilling shall be in accordance with the City of Rochester Standard Specifications for Construction of Service Connections with Public Mains.
3. All surfaces shall be restored in accordance with the City of Rochester standard specifications for construction of Service Connections with Public Mains. The provisions requiring sod restoration of all mowed turf areas apply.
4. All surfaces shall be restored by the Contractor with the exception of street surfaces which will be replaced by the Department of Public Works and charged to the Contractor at current Revised Street Opening Rates, approved by the Common Council.
5. If settlement occurs or the excavation caves in so that replacement materials settle at any time, or if the roadway surface deteriorates or fails to serve as well as the original surface, within a period of two years after the completion of this project, it shall be repaired and replaced by the Applicant.
6. The Applicant shall be responsible for placing sod and shall individually notify, within 3 days of placement, the adjacent property owners.

MAPPING

1. Permittee agrees to provide electronic copies or hard copies and as built constructed information for the project to Public Works.

Utility Utility Permit Permit# U120-2019, UID# 12608
Valid: 06/17/2019 - 09/30/2019

Scott County Physical Development
600 Country Trail E
Jordan, MN 55352
(952) 496-8346
permits@co.scott.mn.us

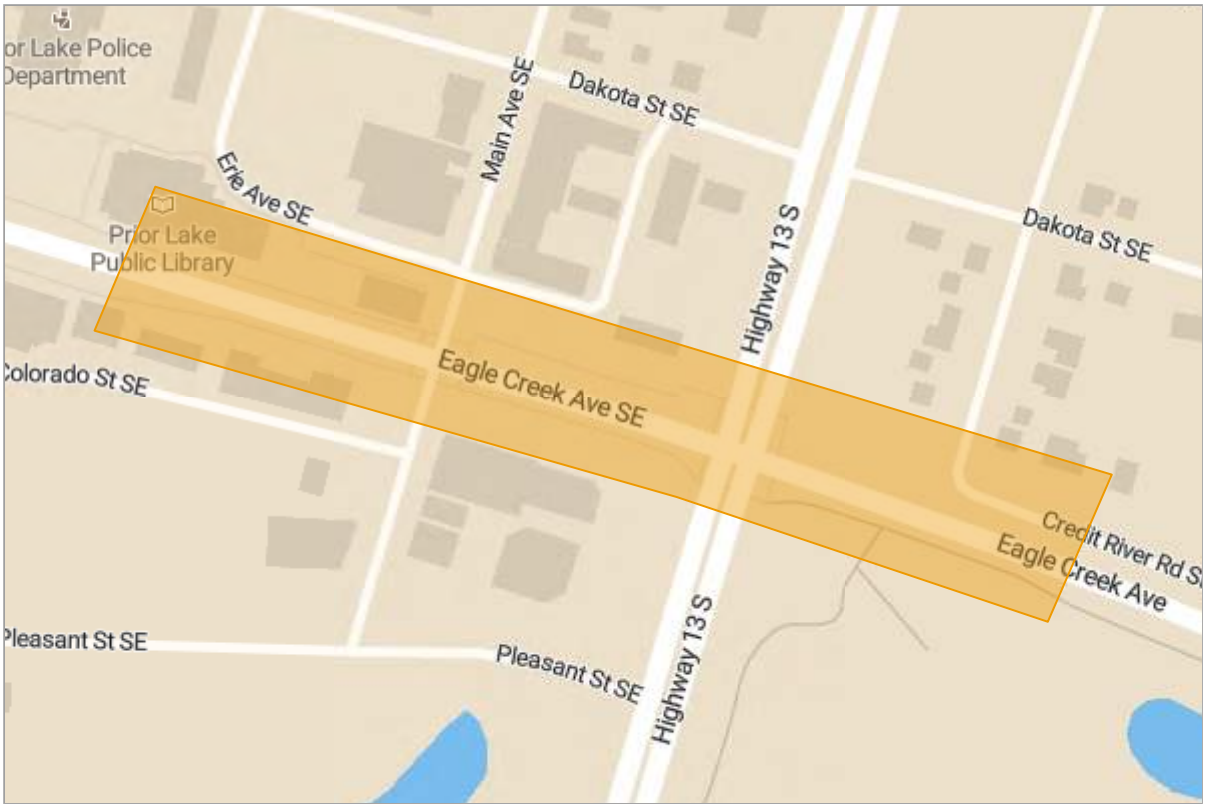
Information

Aerial or Underground?	
Construction Description:	
	06/17/2019 to 09/30/2019

Location

Road Number: 21

Map:



City/Twp: Prior Lake

Location Description/Site Address: MN HWY 13 AND CR 21

Site(s):

	Road	Length	From	To	Shortest distance from centerline	Relative to Road
	21	0 mi 1003 ft	200FT EAST OF MN HWY 13	800FT WEST OF MN HWY 13	50 ft	Along side of roadway

Aerial

Aerial type:	Single Pole
Voltage:	12470
Conductors:	3
Conductor size:	1/0AL
Minimum height along road:	29
Minimum height at crossings over road:	29

Underground

Underground type:	Direct Bury
Conduit/casing type:	HDPE
Method of installation:	Open Trench
Conductors:	3
Conductor size:	1/0 AL, 750AL
Trench size:	4FT
Depth:	30"-48"
Voltage:	12470

Sketch / Site Plan

Upload sketch:	File 1: CR_21_MAP.pdf

Applicant

Applicant name:

Name:
Steve Sandey
Company name:
Xcel Energy
Title:
Designer
Phone:
(507) 387 - 9671
Company phone:
(507) 387 - 9671
Email:
steven.s.sandey@xcelenergy.com
Company address:
210 e lime st
Mankato MN 56001

Contractor

Contractor name:

Name:
Xcel Energy
Phone:
(507) 387 - 9671
Email:
steven.s.sandey@xcelenergy.com
Address:
210 E Lime St
Mankato MN 56001

Terms

General

1. Prior to construction, the permittee shall notify the County Inspector at 952-496-8487. After completion, the permittee shall notify the County Inspector for final inspection by the County Physical Development Department.
2. Disturbed areas will need to be addressed (i.e. seeded, and covered with Class 1 or 2 short term natural thread biodegradable material erosion control blanket (No polypropylene)) with the proper erosion control, including temporary erosion control as needed, within 7 days and maintained until the new turf is established. All work shall be in compliance with local, state and federal regulations.
3. No cutting, potholing, or disturbing the roadway surface in any way without the Scott County Utility Inspectors approval.
4. No foreign material such as dirt, gravel, or bituminous material shall be left or deposited on the roadway during the work. If Material is tracked onto the roadway, it must be removed Immediately.
5. No changes or alterations may be made at any time without written permission from the County Physical Development Department.
6. For the safety of the traveling public, and for the safety of those working in the right-of-way, the proper signage or barricades must be placed in accordance with the standards of the County Physcial Development Department and the Minnesota Manual on Uniform Traffic Control Device's "Temporary Traffic Control Zone Layouts Field Manual".
7. For rural accesses, 6:1 side slopes are required within the County right-of-way.
8. For new residential accesses, swing-away mailboxes are required (see attachment to residential access permits).
9. Any debris generated due to the work must be removed from the County right-of-way within 24 hours.
10. In the event that the construction has not been completed within one year of the permit approval date, this permit becomes null and void.
11. It is the responsibility of the contractor to notify Gopher State One Call for utility locations for any work being performed within the County right-of-way, and to obtain all other necessary permits.
12. No work under this application is to begin until the application is approved, and the permit issued, unless permission has been granted by the County Engineer or his/her designee.
13. Any party working within the County right-of-way under this permit shall have a copy of the approved permit on site. Any party working in the County right-of-way without County approval or without a copy of the approved permit may be required to vacate the right-of-way immediately.
14. All Right of Way Permits are subject to double fees for unauthorized work.
15. All structures, supports, hand holes, vaults, pedestals, poles, etc. shall be placed at the back of the Right-of-way regardless of approved running line. Scott County approval required for any deviation.
16. A structures/supports shall meet Break-away if placed in the Clear-zone/Safe Recovery Area.

Invoice #7066 (06/12/2019)

Charge	Cost	Quantity	Total
Grand Total			
		Total	**$0.00**
		Due	**$0.00**

Special Provisions

Minimum depth under roadway of 60" required.
Erosion Control Blanket Required on all disturbed areas. Class 1 or 2 short term natural thread biodegradable material erosion control blanket (No polypropylene).
All construction shall comply with MnDOT spec 2105.3.
Flaggers shall be required anytime the traveled lane is being blocked.
Coordinate all work with Scott County Inspector and project contractor.

Approvals

Approval	Signature
Applicant	steve s. sandey - 06/12/2019 12:56 PM 718aa68def5e4654d8ffa9f13ed9dcf9 e8382b6f1023baf36a1cca6a2ca80a91
#1 Approved	Curt L. Anderson - 06/13/2019 9:47 AM 0d587c1e491fee13cfa2a747a72bc426 cca811fe3a1852da9c3b9611e23d1069

St. Louis Park
MINNESOTA
Experience LIFE in the Park

pplic tion fo Wo in ublic Right of W y

Job ite dd e : _____

Applicant is: ☐ Owner ☐ Contractor

ope ty owne

Name: _____

Street address: _____

City: _____ State: _____ Zip code: _____

hone: _____ Alternate phone: _____

Cont cto

Name: _____

Street address: _____

City: _____ State: _____ Zip code: _____

hone: _____ Alternate phone: _____

Specific de c iption of wo to be completed:

Info m tion equi ed

Date wor to begin: _____ Date wor to end: _____

After hours or wee end wor : ☐ Yes ☐ No If so, when: _____

Is this wor for repair of existing? ☐ Yes ☐ No

Che k all that apply below

Sub-type
- ☐ Sidewal
- ☐ Dri eway apron
- ☐ Curb and gutter
- ☐ oule ard
- ☐ Roadway

Where in roadway:
☐ Dri ing lane ☐ ar ing lane

Wo type
- ☐ Replace
- ☐ Remo e
- ☐ New
- ☐ Hole (number of holes: _____)
- ☐ Trench
- ☐ Road/lane closure*

*Must include a traffic control plan

Dimen ion of wo
- ☐ Wor abo e ground
- ☐ Wor below ground

ength: _____
Width: _____
Depth: _____

ermits issued and inspections made by the city are a public ser ice and do not constitute any representation, guarantee or warranty, either implied or expressed, to any person as to the conformance to applicable city codes. City infrastructure or right of way that is disturbed or damaged during the installation shall be restored to an equal-to or better-than condition prior to exca ation. The Undersigned ac nowledges that this application has been read and that the abo e is correct and agrees to comply with all the ordinances and laws of the City of St. ouis ar .

Applicant signature: _____ Date: _____

Fo office u e only

ermit number: _____ Appro ed/date: _____ Issued: _____

ermit fee: _____ In estigation fee: _____ Total fees: _____

St. Louis Park
MINNESOTA
Experience LIFE in the Park

Re e ents fo Wo k ng n the P bl c R ght of Way

R les that apply

1. Minnesota State Statue 216D – One Call Excavation Notice System
2. MnDOT's Temporary Traffic Control Zone Layouts Field Manual, dated January 2018
3. All OSHA requirements.
4. MnDOT and city specifications
5. If, within the past three years, the applicant has demonstrated an inability to comply with regulations and conditions set forth by the city related to the issuance of permits, the city may deny issuance of a permit, (Sec. 24-251 of City Code).
6. Any permits issued after Oct. 1, 2018 will be subject to the following requirement. The entire curb ramp is required to be brought into Americans with Disabilities Act (ADA) compliance if there is any alteration to the curb ramp, the curb in front of the curb ramp or the landing. View the MnDOT curb ramp compliance form. Upon completion, the city will field verify that the ramp is in compliance. No permit will be closed until the curb ramp meets these requirements.

Const ct on cond t ons

1. As part of the application, the applicant shall submit a scaled drawing of the proposed construction detailing locations, dimensions, details, etc. of all existing and proposed facilities.
2. It is the applicant's responsibility to contact Gopher State One Call for utility locations.
3. No street closures are allowed unless authorized by the permit. If a lane closure or detour is needed, the city must approve a traffic control plan prior to the commencement of work. The plan shall conform to the MnDOT Temporary Traffic Control Zone Layouts Field Manual, dated January 2018.
4. No equipment or machines shall be piled near or driven over any roots of any boulevard tree unless protected by a proper guard and/or tree protection.
5. No person shall remove, destroy or injure any tree or shrub in the public right of way without prior approval.
6. All other utilities encountered shall be protected and any damage shall be the responsibility of the applicant.
7. All concrete and bituminous surfaces shall be saw cut (full-depth) and replaced according to city specifications.
8. Pipe installation under concrete or bituminous roadways shall be done by jacking or boring, unless otherwise authorized by the city. When a pipe of three inches or larger is installed by jacking or boring, a casing of larger dimension must be used to encase the pipe.
9. Backfill shall be placed and compacted in six-inch layers using mechanical vibratory equipment.
10. Pavement replacement will be marked by the city inspector in the field after the inspection of backfilling and compaction.
11. The work area shall be restored, as soon as possible, to an equal-to or better-than condition prior to excavation.
12. The applicant is responsible for replacement of sod and pavement should settlement occur within two years of restoration.
13. Undermining of pavements or structures shall not be allowed. If undermining occurs, as determined by the city, pavements or structures must be removed and replaced.
14. Disposal of any construction debris must occur outside of city limits. Disposal is not allowed on any vacant lot, private or public, in St. Louis Park.
15. Should a utility placement location change be deemed necessary, revised plans must be approved by the city prior to construction.
16. Should utility placement occur at a location different than shown on the approved plans, the city will require the applicant to remove and relocate at the applicant's cost.
17. Removal of all unnecessary infrastructure is recommended within the city right of way. Any future costs for removal of abandoned utility infrastructure within the city right of way shall be the responsibility of the applicant.

L tat ons

1. The applicant shall contact the city at 952.924.2656 at least 48 hours prior to construction.
2. Work shall be done between 7 a.m. and 3:30 p.m., Monday — Friday, not including holidays or as approved by city.
3. Damage to the street surface by equipment with lugs shall be avoided. Permittee will be required to replace or repair damaged sections of street.
4. No material, equipment or vehicles shall be stored or parked on city streets without prior city authorization.
5. The work area shall be cleaned at the end of the workday or when work is otherwise completed.
6. Inspection of the base and concrete mix is required prior to pouring. The applicant shall contact the city at 952.924.2656 to schedule inspections.
7. All permits expire six months from the date of issuance. Extensions may be granted by the city with proper authorization.

Not f cat on fo non-e e gency t l ty wo k

1. Written notice shall be sent by the applicant to all affected properties at least two weeks prior to commencement of work.
2. The permit application shall include a copy of the notification and a list of properties affected and notified.
3. The notification will include: the need/reason for the work; scope of work; dates of construction; contractor's contact person, including his/her phone number; and the city representative, including his/her phone number.
4. In the case of a large-scale project, the city may require the applicant to hold a public information meeting. The applicant will be responsible for scheduling and conducting the meeting prior to construction.
5. Only after the terms of this statement are met with full consent and knowledge of the city will approval be given for work to proceed as outlined on the application form.

UTILITY/RIGHT-OF-WAY PERMIT APPLICATION

Allow a minimum of 5 business days for permit processing from date of arrival.

Applicant is responsible for all locations and Gopher State One Calls including registration of new utilities. Please describe and check all that apply. Attach two scale drawings of project area. The drawing needs to show all existing and proposed right-of-way, curb, sidewalk, trails, and above and below ground facilities or appurtenances and poles.

Project Description:			
Date:	Co. Reference # :		
Company:	Contact Person:		
Address:	City:	State:	Zip:
Email:	Phone:		

Sub-contractor Performing Work			
Company:	Name:		
Address:	City:	State:	Zip:
Email:	Phone:		

Location:	
Subdivision:	Address/Description:

When approved, deliver to:			
Applicant: ☐ OR Sub-Contractor: ☐	Email: ☐	Regular Mail: ☐	Pickup: ☐

When approved, method of payment by:			
Applicant: ☐ OR SubContractor: ☐	Credit Card: Expiration Date:	Name: Check box if you want credit card to be kept on file: ☐	Check: ☐
Permits must be paid and picked up by date of project start date.			

Nature of Work:	Cable TV ☐	Electric ☐	Gas ☐	Repair ☐
Telecom. ☐	New ☐	Replacement ☐	Service ☐	Abandon ☐
Underground ☐	Street Light ☐	Aerial ☐	Other Enter Information here.	

Estimated Start Date:	Estimated Completion Date:

Type of Surface to be Disturbed:	Blvd. ☐	Sidewalk ☐	Easement ☐
Bituminous ☐ Concrete ☐	Gravel ☐	Other	

Method of Installation:	Trench ☐	Plow ☐	Directional Bore ☐
Backhoe ☐ Hand Dig ☐	Pneuma Gopher ☐	Other	

Material Used:		
Size and type of pipe, conduit or cable:		
Distance from curb or centerline:		
Voltage or pressure:	Length:	Depth from surface:

Detour of Traffic:	No: ☐ Yes: ☐	Traffic control must comply with MMUCD

Restoration Planned:	Bit. Paving ☐	Motorized Tamper ☐	Machine Formed Curb ☐
Hand formed Curb/Sidewalk with Forms ☐		Sodding with 6" Topsoil ☐	
Seeding with 6" Topsoil ☐		Other	

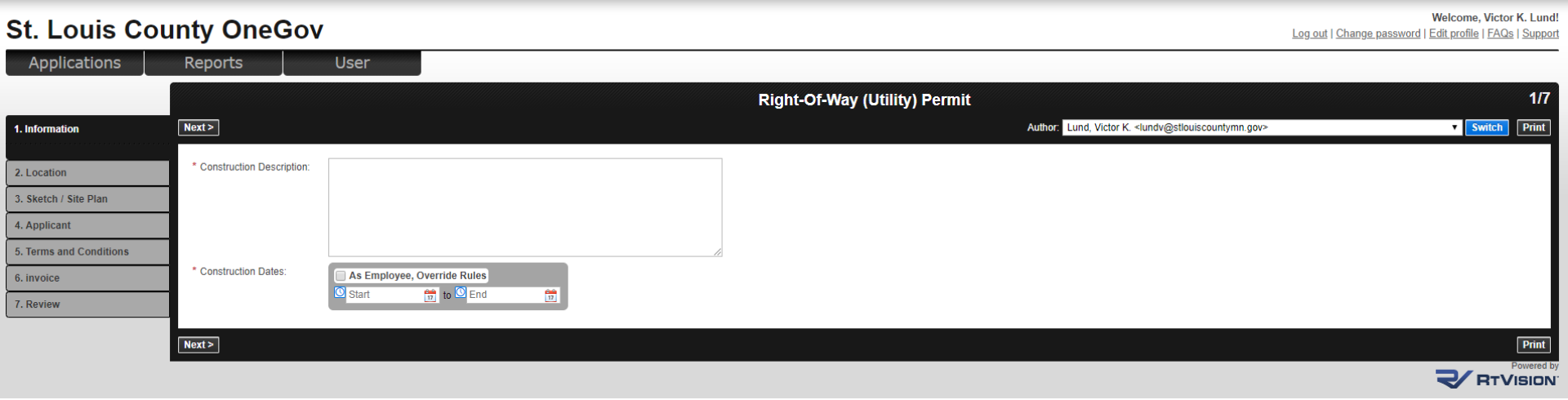
OFFICE USE ONLY: PERMIT FEES			
Administration Fee (per permit)	$150 per permit	No.	Total:
Fee includes up to two street or blvd. excavations			
Each Additional Street Excavation Per Hole	$40 per hole	No.	Total:
Each Additional Blvd Excavation Per hole	$20 per hole	No.	Total:
		Estimated Total Due:	

Excavation permits are issued subject to all of the terms, conditions and requirements of Section 93 of the St. Michael City Code. By executing this application and accepting the Excavation Permit, applicant agrees to fully comply with all terms and conditions and requirements of Section 93 of the St. Michael Code of Ordinances.

Conditions of Approval: Notify all affected homeowners of work prior to beginning. Restore all disturbed area "in kind". Locate and avoid all utilities including sprinklers and storm sewers. Bore all roads and driveways.

Electronic Printed Signature:	Date:

Office Use Only *Allow a minimum of 5 business days for permit processing from date of arrival.*		
Date Received:	Approved by:	Date Approved:
Permit Number:	Final Total:	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1. Information
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3. Sketch / Site Plan
4. Applicant
5. Terms and Conditions
6. invoice
7. Review
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Author: Lund, Victor K. <lundv@stlouiscountymn.gov>
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* Construction Description:
* Construction Dates:
As Employee, Override Rules
Start
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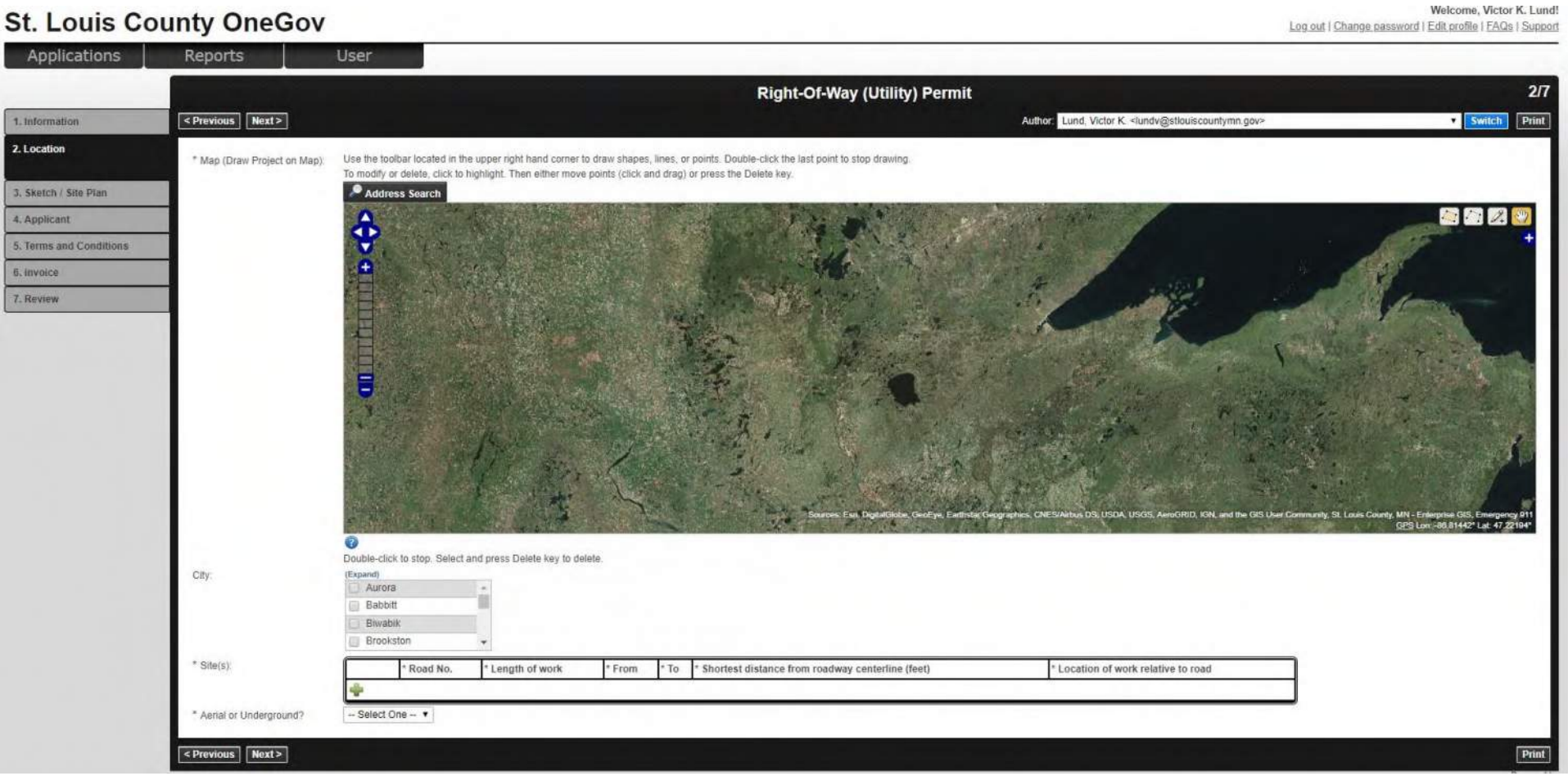
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Author: Lund, Victor K. <lundv@stlouiscountymn.gov>
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* Map (Draw Project on Map):
Use the toolbar located in the upper right hand corner to draw shapes, lines, or points. Double-click the last point to stop drawing.
To modify or delete, click to highlight. Then either move points (click and drag) or press the Delete key.
Address Search
Sources: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community, St. Louis County, MN - Enterprise GIS, Emergency 911
GPS Lon: -86.81442° Lat: 47.22194°
Double-click to stop. Select and press Delete key to delete.
City:
(Expand)
Aurora
Babbitt
Biwabik
Brookston
* Site(s):
* Road No.
* Length of work
* From
* To
* Shortest distance from roadway centerline (feet)
* Location of work relative to road
* Aerial or Underground?
-- Select One --
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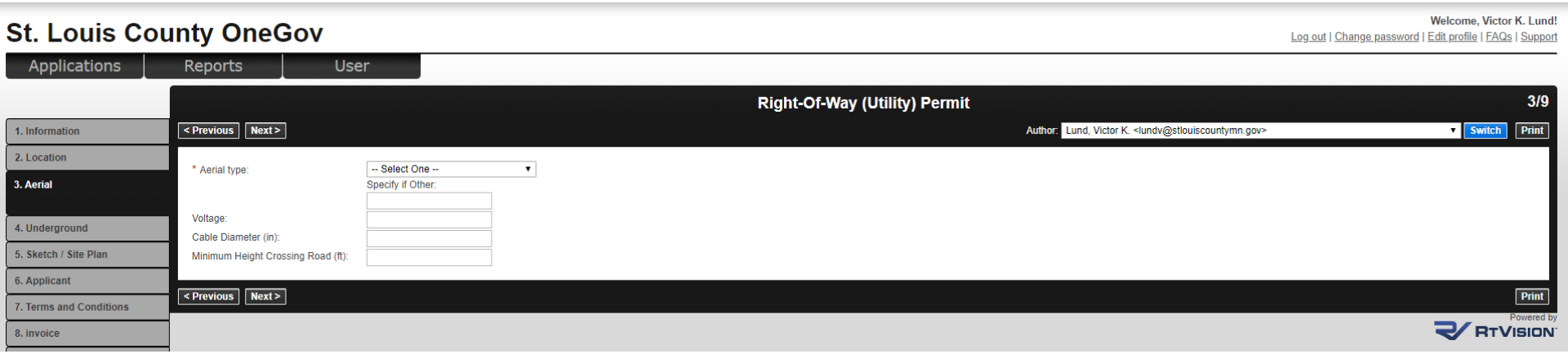
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* Aerial type:
-- Select One --
Specify if Other:
Voltage:
Cable Diameter (in):
Minimum Height Crossing Road (ft):
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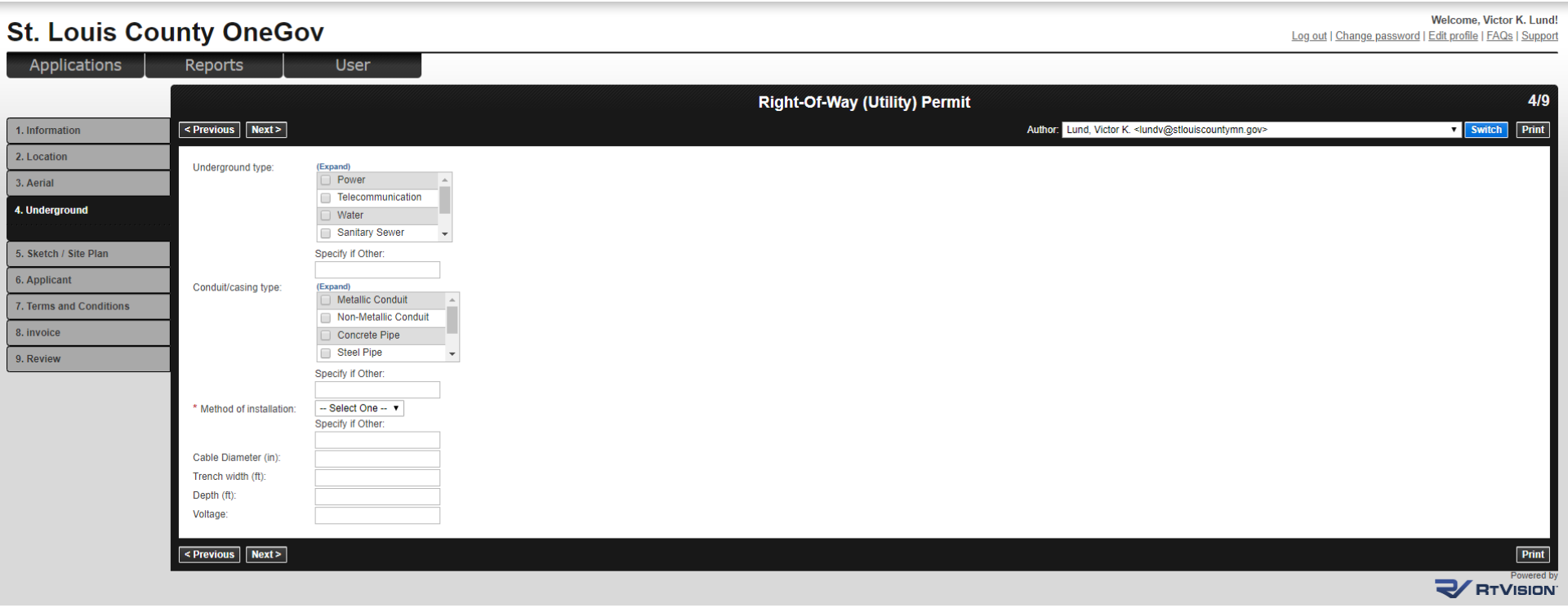
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Underground type:
(Expand)
Power
Telecommunication
Water
Sanitary Sewer
Specify if Other:
Conduit/casing type:
(Expand)
Metallic Conduit
Non-Metallic Conduit
Concrete Pipe
Steel Pipe
Specify if Other:
* Method of installation:
-- Select One --
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Depth (ft):
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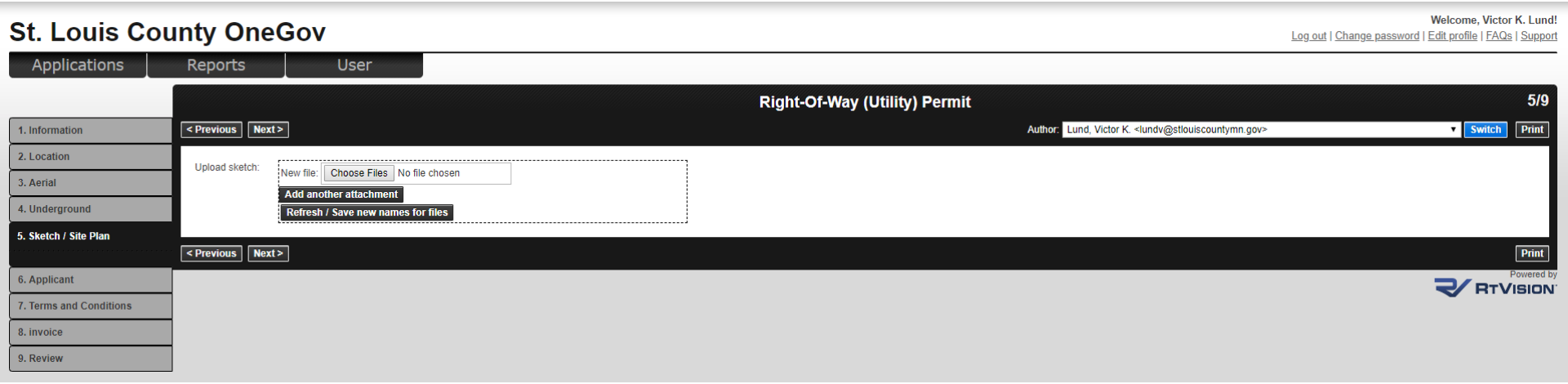
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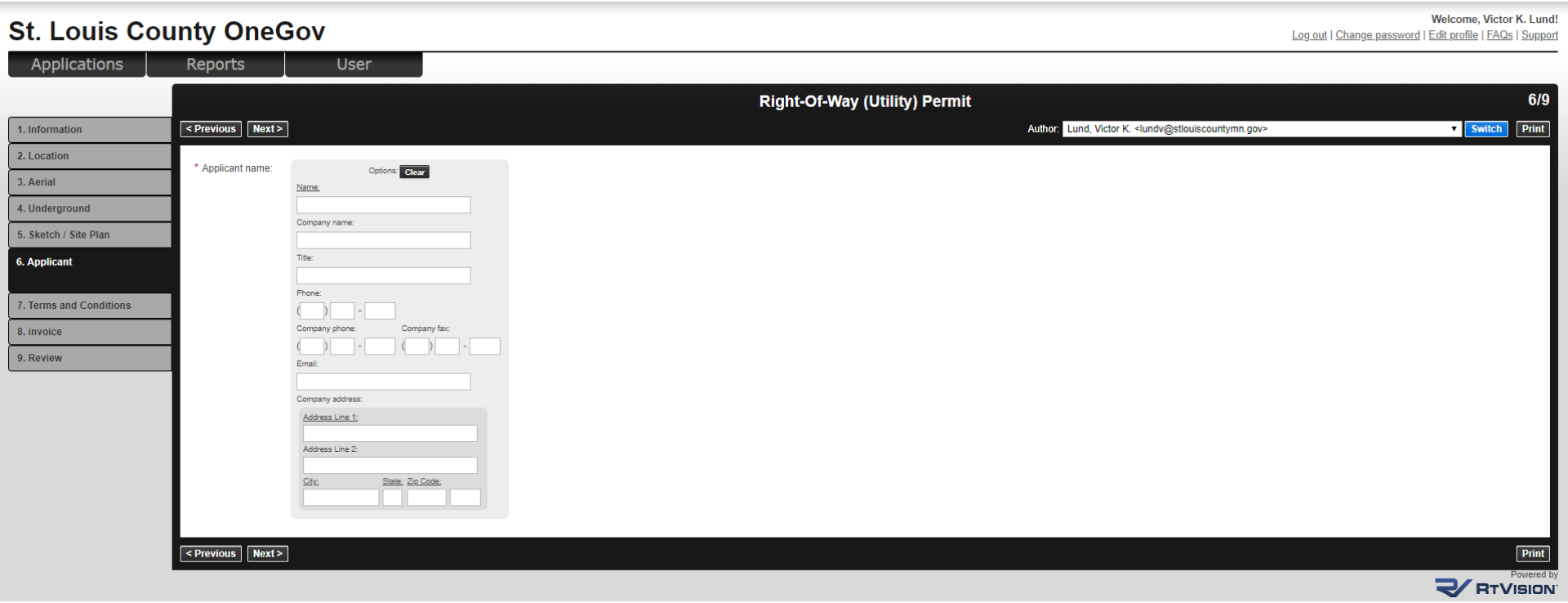
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State:
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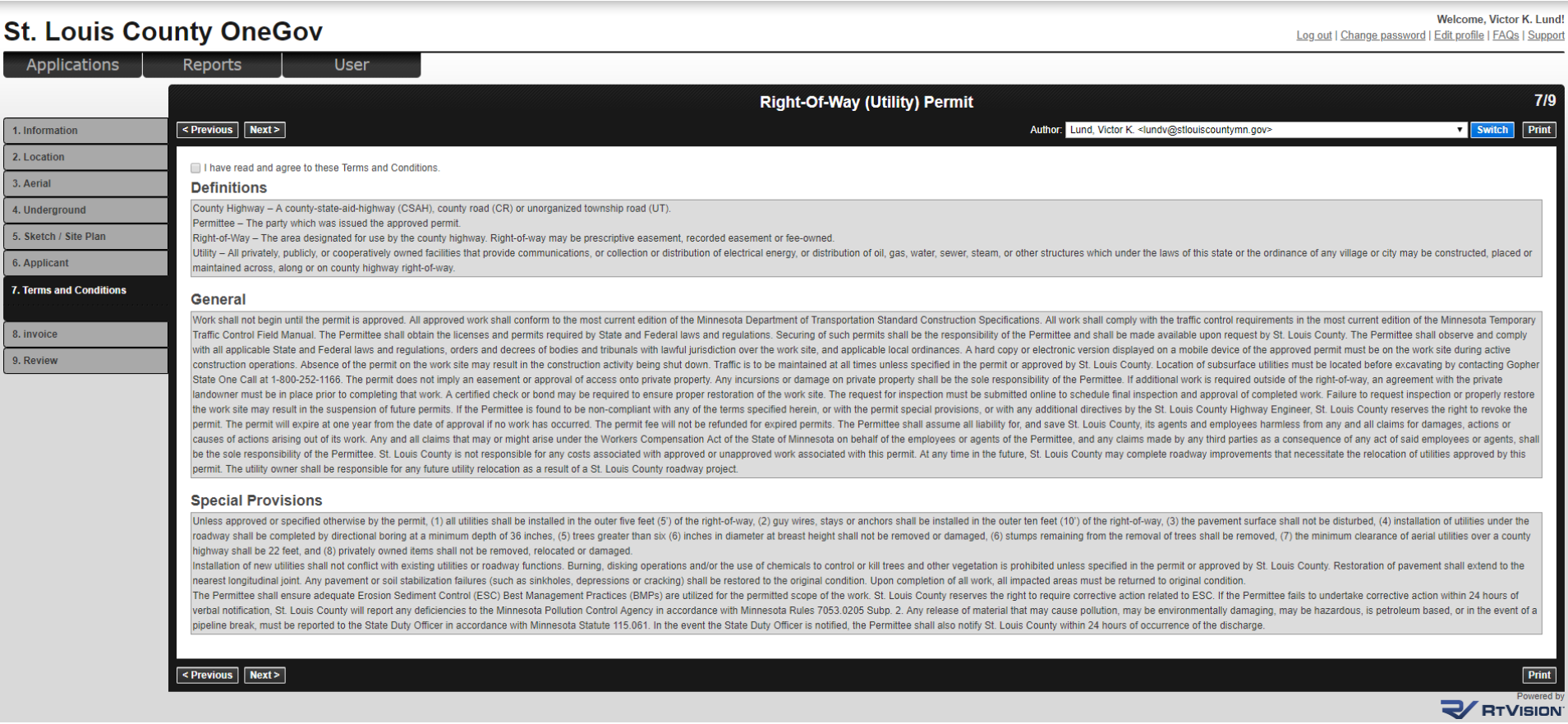
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Author: Lund, Victor K. <lundv@stlouiscountymn.gov>
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I have read and agree to these Terms and Conditions.
Definitions
County Highway – A county-state-aid-highway (CSAH), county road (CR) or unorganized township road (UT).
Permittee – The party which was issued the approved permit.
Right-of-Way – The area designated for use by the county highway. Right-of-way may be prescriptive easement, recorded easement or fee-owned.
Utility – All privately, publicly, or cooperatively owned facilities that provide communications, or collection or distribution of electrical energy, or distribution of oil, gas, water, sewer, steam, or other structures which under the laws of this state or the ordinance of any village or city may be constructed, placed or maintained across, along or on county highway right-of-way.
General
Work shall not begin until the permit is approved. All approved work shall conform to the most current edition of the Minnesota Department of Transportation Standard Construction Specifications. All work shall comply with the traffic control requirements in the most current edition of the Minnesota Temporary Traffic Control Field Manual. The Permittee shall obtain the licenses and permits required by State and Federal laws and regulations. Securing of such permits shall be the responsibility of the Permittee and shall be made available upon request by St. Louis County. The Permittee shall observe and comply with all applicable State and Federal laws and regulations, orders and decrees of bodies and tribunals with lawful jurisdiction over the work site, and applicable local ordinances. A hard copy or electronic version displayed on a mobile device of the approved permit must be on the work site during active construction operations. Absence of the permit on the work site may result in the construction activity being shut down. Traffic is to be maintained at all times unless specified in the permit or approved by St. Louis County. Location of subsurface utilities must be located before excavating by contacting Gopher State One Call at 1-800-252-1166. The permit does not imply an easement or approval of access onto private property. Any incursions or damage on private property shall be the sole responsibility of the Permittee. If additional work is required outside of the right-of-way, an agreement with the private landowner must be in place prior to completing that work. A certified check or bond may be required to ensure proper restoration of the work site. The request for inspection must be submitted online to schedule final inspection and approval of completed work. Failure to request inspection or properly restore the work site may result in the suspension of future permits. If the Permittee is found to be non-compliant with any of the terms specified herein, or with the permit special provisions, or with any additional directives by the St. Louis County Highway Engineer, St. Louis County reserves the right to revoke the permit. The permit will expire at one year from the date of approval if no work has occurred. The permit fee will not be refunded for expired permits. The Permittee shall assume all liability for, and save St. Louis County, its agents and employees harmless from any and all claims for damages, actions or causes of actions arising out of its work. Any and all claims that may or might arise under the Workers Compensation Act of the State of Minnesota on behalf of the employees or agents of the Permittee, and any claims made by any third parties as a consequence of any act of said employees or agents, shall be the sole responsibility of the Permittee. St. Louis County is not responsible for any costs associated with approved or unapproved work associated with this permit. At any time in the future, St. Louis County may complete roadway improvements that necessitate the relocation of utilities approved by this permit. The utility owner shall be responsible for any future utility relocation as a result of a St. Louis County roadway project.
Special Provisions
Unless approved or specified otherwise by the permit, (1) all utilities shall be installed in the outer five feet (5') of the right-of-way, (2) guy wires, stays or anchors shall be installed in the outer ten feet (10') of the right-of-way, (3) the pavement surface shall not be disturbed, (4) installation of utilities under the roadway shall be completed by directional boring at a minimum depth of 36 inches, (5) trees greater than six (6) inches in diameter at breast height shall not be removed or damaged, (6) stumps remaining from the removal of trees shall be removed, (7) the minimum clearance of aerial utilities over a county highway shall be 22 feet, and (8) privately owned items shall not be removed, relocated or damaged.
Installation of new utilities shall not conflict with existing utilities or roadway functions. Burning, disking operations and/or the use of chemicals to control or kill trees and other vegetation is prohibited unless specified in the permit or approved by St. Louis County. Restoration of pavement shall extend to the nearest longitudinal joint. Any pavement or soil stabilization failures (such as sinkholes, depressions or cracking) shall be restored to the original condition. Upon completion of all work, all impacted areas must be returned to original condition.
The Permittee shall ensure adequate Erosion Sediment Control (ESC) Best Management Practices (BMPs) are utilized for the permitted scope of the work. St. Louis County reserves the right to require corrective action related to ESC. If the Permittee fails to undertake corrective action within 24 hours of verbal notification, St. Louis County will report any deficiencies to the Minnesota Pollution Control Agency in accordance with Minnesota Rules 7053.0205 Subp. 2. Any release of material that may cause pollution, may be environmentally damaging, may be hazardous, is petroleum based, or in the event of a pipeline break, must be reported to the State Duty Officer in accordance with Minnesota Statute 115.061. In the event the State Duty Officer is notified, the Permittee shall also notify St. Louis County within 24 hours of occurrence of the discharge.
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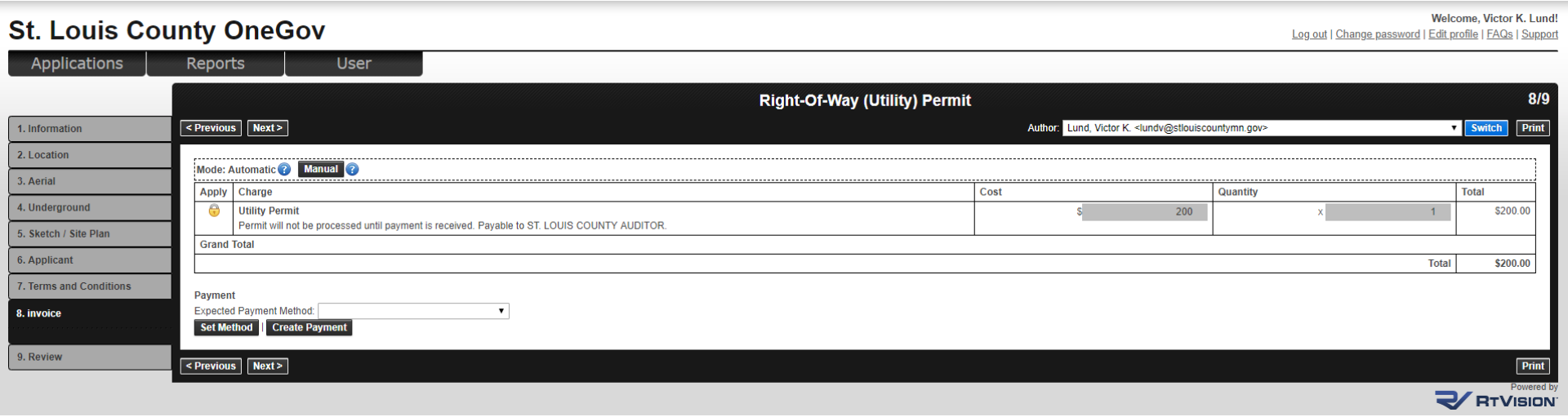
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Mode: Automatic
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Apply
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Cost
Quantity
Total
Utility Permit
Permit will not be processed until payment is received. Payable to ST. LOUIS COUNTY AUDITOR.
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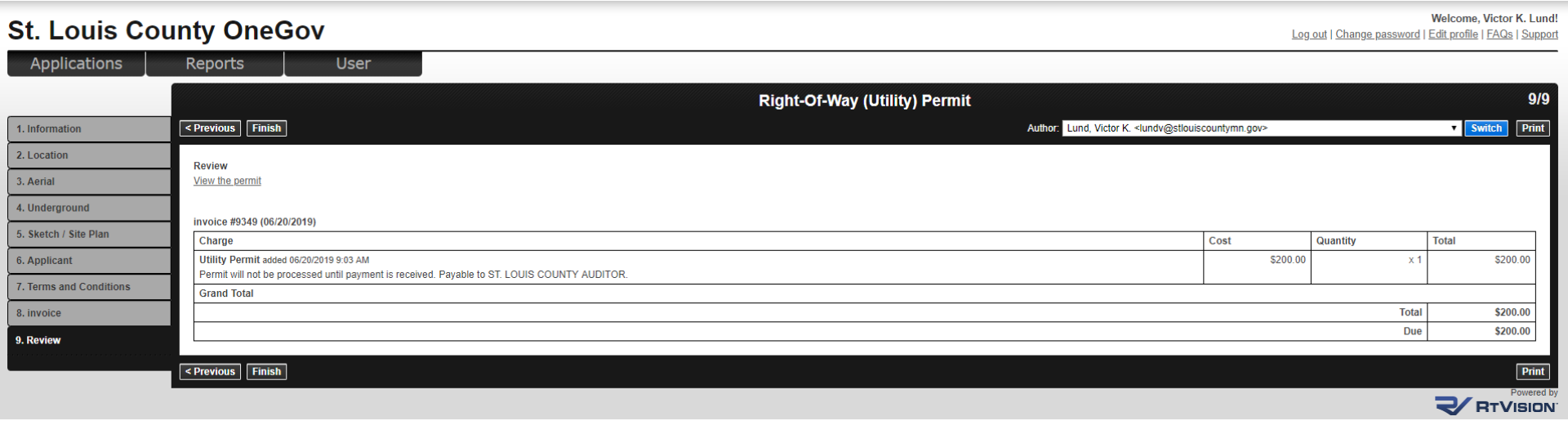
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Finish
Author: Lund, Victor K. <lundv@stlouiscountymn.gov>
Switch
Print
Review
View the permit
invoice #9349 (06/20/2019)
Charge
Cost
Quantity
Total
Utility Permit added 06/20/2019 9:03 AM
Permit will not be processed until payment is received. Payable to ST. LOUIS COUNTY AUDITOR.
$200.00
x 1
$200.00
Grand Total
Total
$200.00
Due
$200.00
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Washington County

WASHINGTON COUNTY PUBLIC WORKS DEPARTMENT
11660 Myeron Road North
Stillwater, Minnesota 55082
Phone: (651) 430-4313 • Fax: (651) 430-4350

Utility Service Lateral: $25
All Others: $100 per 1/8 Mile, or fraction thereof.

Please Allow 10 Business Days for Processing

Permit No. _____
County Road _____
Storm Sewer _____
Permit Fee _____

APPLICATION FOR RIGHT OF WAY PERMIT

ALL APPLICANTS MUST BE REGISTERED WITH WASHINGTON COUNTY TO OBTAIN PERMIT

Name of Applicant	**Contact Address**	
_____	_____	**Phone**_____
_____	City_____	**Fax** _____
Contractor: _____	State/Zip _____	**Registration#** _____

Date and Location

Proposed Start Date: _____ Proposed End Date: _____
County Road Number: _____ City/Township: _____

Describe Location and Project Limits. Include a Drawing and/or Map if Necessary.

_____

Type of Work (Check all that Apply)

___ Install New Underground Utilities
___ Install New Overhead Utilities
___ Install New Ground-Level Utilities
___ Maintenance (No New Installation)
___ Install Antenna/Wireless Structure
___ Install Sign or Monument
___ Install Street/Sidewalk/Driveway/Culvert
___ Place Temporary Structure or Container
___ Install Landscaping
___ Grading/Excavation/Boring
___ Tree/Brush Removal
___ Host a Parade/Race/Event
___ Other (Describe Below)

Traffic Impacts (Check ONE)

___ No Traffic Impacts
___ Sidewalk, Shoulder, or Trail Closure (Vehicle lanes not affected)
___ Closure of Traffic Lane(s) without detour. (Flagging or lane reduction, no re-routing of traffic). **A Traffic Control Plan may be required.**
___ Closure of Traffic Lane(s) requiring detour (Traffic being re-routed). **A traffic control plan MUST be submitted with permit application.**

Utility Information (If applicable)

Utility Type:
___ Electrical
___ Communications (Copper)
___ Communications (Fiber Optic)
___ Communications (Wireless)
___ Natural Gas / Petroleum
___ Water or Sewer
___ Other: _____

For Underground Utilities:
Size: _____
Conduit Type: _____
Casing Type: _____
Depth: _____
Voltage: _____
Pressure: _____

For Overhead Utilities:
Installing New Poles? ___Yes ___No
Minimum Height of Conductor from ground: _____
Minimum Height of Conductor over roadway: _____
Line Voltage: _____

V. The applicant shall perform all work according to the terms of this permit, the Washington County Right of Way Ordinance and all other regulations of Washington County, and any Standard and/or Special Provisions which are attached to the permit. The applicant shall comply with all applicable codes, laws, and ordinances including County Ordinance #188. The work performed shall be in no way detrimental to the highway or to the safety of the public. **All traffic control shall comply with the provisions of the Minnesota Manual on Uniform Traffic Control Devices, including the Temporary Traffic Control Zone Layouts Field Manual.** Applicant shall supply accurate electronic "as-built" drawing files in either .DWG or .DXF format. Files will be accepted in other formats and converted, at the applicant's expense, to a compatible format. If the County cannot convert files, the applicant must convert them to a compatible format. Conversion costs will be billed by the County at applicable billable labor rates plus material costs.

Print Name: **Signature:** **Date:**

FOR OFFICE USE ONLY

In accordance with this application, a Right of Way Permit is granted to the applicant to place, construct, and maintain said utility on or across the right of way of said County highway in the location shown on the drawing which is a part of this application, or in a location or manner specified by the County Engineer in the attached Special Provisions. A copy of this Permit must be available at the work site at all times.

Performance Bond, Cashier's Check, or Certified Check No._____ **Amount**_____
No interest shall be earned or paid on this deposit.

SPECIAL PROVISIONS_____

APPROVED _____
Authorized Signature Washington County Public Works Department Date

CITY PERMIT
No: _____

ENGINEERING DEPARTMENT

4701 Highway 61, White Bear Lake, MN 55110
Phone: (651) 429-8531

RIGHT-OF-WAY PERMIT

EXCAVATION OR NON-EXCAVATION (OBSTRUCTION)

APPLICATION DATE:		**UTILITY PROJECT NUMBER:**	

APPLICANT	
Name:	
Address:	City/State/Zip:
Contact Person:	Work/Cell Phone:
Email:	

PROJECT INFORMATION

SITE:	Street:
Location (To and From):	

RIGHT-OF-WAY DETAILS: ☐ Roadway ☐ Sidewalk/Pathway ☐ Boulevard

Right of Way Jurisdiction: ☐ City ☐ County / State (If checked, a Ramsey County or MnDOT ROW permit is also required.)

TYPE OF FACILITY:		**PROPOSED WORK**:
☐ Cable TV: Size/Material/Type: _____		Hole (Quantity): _____
☐ Electric: Size/Material/Type: _____	☐ Gas	Trench (Linear Ft): _____
☐ Water: Size/Material/Type: _____	☐ Curb Cut	Bore (Linear Ft): _____
☐ San. Sewer: Size/Material/Type: _____		Aerial (Linear Ft): _____
☐ Storm Sewer: Size/Material/Type: _____	☐ Other	Utility Pole (Quantity): _____
☐ Phone Telecom: Size/Material/Type: _____	Description: _____	Roll-Off/POD Container (Quantity): _____

SCHEDULE:	Estimated Start Date/Time:	Estimated End Date/Time:

Acknowledgement and Signature:
The undersigned hereby makes application to the City of White Bear Lake to perform the work as herein described. The work for which this permit is issued shall be performed according to: (1) the conditions of this permit; (2) the approved plans and specifications; and (3) the applicable City approvals, Ordinances and Codes.

Print Name:_____ Signature: _____ Date:_____

☐ Contractor ☐ Owner

WARNING: It is the contractor's responsibility to call for utility locates before digging.
Gopher State One call: 651-454-0002

OFFICE USE ONLY

SEPARATE PERMITS REQUIRED: ☐ Ramsey County ☐ Mn/DOT RR ☐ Other _____

Notes:

Permit Approved By _____ Date: _____	Total Fees: $ _____

Please call Carisa Vermeersch, Right-of-Way Coordinator, at 651-429-8531 with questions.
E-mail: cvermeersch@whitebearlake.org

Revised 01/10/19

CITY OF WOODBURY
ENGINEERING DIVISION

8301 VALLEY CREEK ROAD
WOODBURY, MN 55125-3330
PHONE: (651) 714-3593
FAX (651) 714-3501

RIGHT-OF-WAY PERMIT FORM

CITY PERMIT NO.:	**2019-**	PERMIT FEE:	**$200.00**
COMPANY PERMIT NO.:		DATE:	

APPLICANT INFORMATION:

DEVELOPMENT / ADDITION/LOCATION DESC.: _____

OR

SITE ADDRESS: _____ OWNER: _____

UTILITY COMPANY: _____ CONTACT PERSON: _____

TELEPHONE NO: _____ ADDRESS: _____

CITY: _____ STATE: _____ ZIP CODE: _____

CONTRACTOR INFORMATION:

CONTRACTOR PERFORMING WORK: _____

CONTACT NAME: _____ CONTACT NUMBER: _____

TYPE OF WORK TO BE DONE:

☐ NEW PRIVATE UTILITY INSTALLATION ☐ REPLACE/REPAIR PRIVATE UTILITY ☐ COMMERCIAL DRIVEWAY APRON

☐ RESIDENTIAL DRIVEWAY APRON Width of Proposed Driveway: _____

CONNECTION TO CITY SYSTEM:

☐ WATERMAIN ☐ STORM SEWER ☐ SANITARY SEWER

☐ OTHER

WHAT THE WORK WILL INVOLVE:

☐ STREET OPEN CUT ☐ PATHWAY CUT ☐ EXCAVATION IN BOULEVARD or CITY OWNED PROPERTY

EXPLANATION OF WORK/ADDITIONAL COMMENTS:

PROPOSED START DATE: _____ PROPOSED END DATE: _____

Applicant agrees to abide to and follow any applicable laws, rules, and regulations of any other regulatory bodies, including but not limited to city, county, state or federal regulatory agencies.

APPLICANT SIGNATURE: **TITLE:** **DATE:**

TO BE COMPLETED BY CITY ONLY:

PERMIT EXPIRATION DATE: _____ **REQUIRED SECURITY:** _____

TYPE OF FINANCIAL SECUIRTY PROVIDED: ☐ **CASH/CHECK** ☐ **BOND** ☐ **ANNUAL**

APPROVAL SIGNATURE: **TITLE:** **DATE:**

RIGHT- OF-WAY PERMIT

Wright County Highway Department
Public Works Building
3600 Braddock Ave. N.E.
Buffalo, MN. 55313
Telephone (763) 682-7706
Fax (763) 682-7313

County Permit No. _____

Company W.O. No. _____

Permit Fee Schedule
$100.00 First Mile
$ 50.00 For Each Additional Mile

Application is hereby made for permission to place, construct and thereafter maintain a _____ (along or across) County Highway No. _____ from _____ to _____, _____ feet from the centerline on the (east, west, north, south) side of the county highway. **Submit 2 copies of engineering drawings.**

I. TYPE OF CONSTRUCTION New Facility _____ Existing Facility _____

Power _____ Communication _____ Pipelines _____ Gas _____ Other _____

II. UNDERGROUND CONSTRUCTION

Voltage _____ Number of Conductor _____ Size of Conductor _____ Conduit Type _____
Pressure Flow _____ psig Fluid Type _____ Pipe & Size _____ Casing Type _____

III. AERIAL CONSTRUCTION Voltage _____ Number of Conductors _____ Size of Conductor _____

Single pole _____ Open wire _____ H-Frame _____ Single pole and H-Frame _____ Vertical _____
Steel tower _____ Cross-arm _____ Cable _____ Vertical and cross-arm _____ Other _____

Minimum height of conductor: _____ feet along highway, _____ feet at crossing over highway.

IV. METHOD OF INSTALLING UNDER ROADBEDS (48" minimum depth)

Jacking _____ Boring _____ Pneuma Gopher _____ Open Trench (explain) _____

V. METHOD OF INSTALLING OUTSIDE OF ROADBEDS (36" minimum depth)

Direct Bury _____ Boring _____ Other _____ Open Trench (explain) _____

VI. Work to start on or after _____ and to be completed on or before _____

Extent and location of tree trimming and/or clearing: _____

VII. The applicant in carrying on any and all of the work herein above mentioned or referred to in its application and in the Permit issued here fore, shall strictly conform to the terms of such Permit, and the regulations of the Wright County Right-of-Way Ordinance, as set forth herein together with the Special Provisions, all of which are made a part hereof. The applicant specifically agrees to be bound hereby. The applicant shall also comply with the regulations of all other governmental agencies for the protection of the public. The work shall be accomplished in a manner that will not be detrimental to the highway and that will safeguard the public.

Owner of Facility _____ Contact _____
(Company/Government Entity/Other) (Print Name)

Address _____ Phone _____

City _____ State _____ Zip _____ Fax/e-mail _____

Name of Agency _____ Contact _____
(Contractor/Engineering Firm) (Print Name)

Address _____ Phone _____

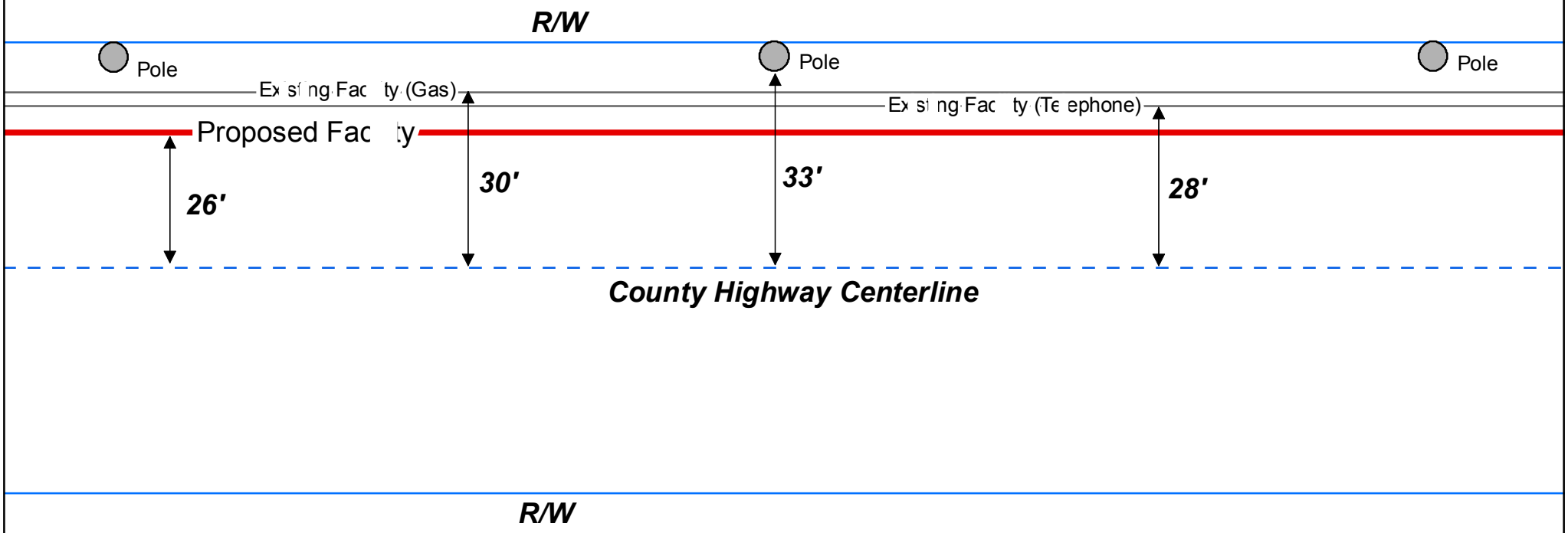
City _____ State _____ Zip _____ Fax/e-mail _____

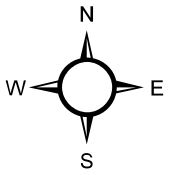
Signature _____ Date _____
(Applicant's Signature)

LOCATION SKETCH

Show location of proposed facility in relation to the centerline of the county highway and other pertinent features such as nearest road intersection, other utilities, right of way line, shoulder line, curb line and edge of surfacing. The facility should also be referenced to adjacent landlines.

SAMPLE LOCATION SKETCH





RULES AND REGULATIONS OF BOARD OF COUNTY COMMISSIONERS FOR UTILITIES ON COUNTY HIGHWAYS.

Definition

Utility. Under this order "utility" shall mean and include all privately, publicly of co-operatively owned communication lines and facilities, any systems, lines, and facilities for the distribution and transmission of electrical energy, oil, gas, water, sewer, steam and other pipe lines, railways, ditches, flumes or other structures which under the laws of this State or the ordinance of any town or city may be constructed, placed or maintained across, along or on county highway right of way. Dependent upon the meaning intended in the context, "Utility" shall also mean the utility company, inclusive of any wholly owned subsidiary.

General

I. Except as otherwise permitted, utility construction and relocation on county highways right-of-way shall not be commenced until an application for a Permit has been made and such Permit granted. The Permit sketch shall show the location of the proposed utility with reference to county highway centerline. A copy of the sketch shall be provided for each copy of such Permit.

II. Burning or disking operations and/or the use of chemicals to control or kill trees, brush and other vegetation is prohibited without prior approval from the County Highway Engineer.

III. All waterways and lines of drainage shall remain operative.

IV. Wherever topsoil and sod are disturbed, they shall be replaced and maintained satisfactorily until the turf is established.

V. The utility facility and installation shall not interfere with any existing utility facilities on the county highway right of way.

VI. When necessary, barricades, warning devices and flag men shall be provided by the Utility during all phases of their construction and maintenance operations on county highway right of way.

VII. At the time of construction of the utility and at the times of subsequent maintenance, prior approval shall be obtained from the County Highway Engineer for the cutting and trimming of trees within the county highway right of way. Wherever trees are cut, the resulting stumps shall be removed unless otherwise provided in the Special Provisions of the Permit. Any holes caused by stump removal shall be backfilled, the area leveled and all materials associated therewith disposed of outside the county highway right of way. The utility shall advise the County Highway Engineer at least 48 hours in advance of its intent to start clearing and grubbing operations so that proper supervision can be provided.

VIII. The Utility shall notify the County Highway Engineer of its intent to perform service and maintenance operations, which will interfere with the flow of traffic on county highways, and shall obtain his approval prior to performing such operations. However, the Company may perform service and maintenance operations on county highways including opening and disturbing the surface of the right of way without prior approval in those instances where an emergency exists that is dangerous to the life of safety of the public and which requires immediate repair. The Utility shall take all necessary and reasonable safety measures to protect the traveling public and shall notify the County Highway Engineer at the earliest possible moment.

IX. If at any time **Wright County**, acting through its Board of County Commissioners, shall deem it necessary to make any improvements or changes on all or any part of the right of way of the county highway which affect a utility located on county highway right of way, then and in such events, the owner of the utility shall within 15 days after written notice from the Board of County Commissioners, or its authorized agent, proceed to alter, change, vacate or remove said utility from the county highway right of way so as to conform to said county highway changes and as directed by the Board of County Commissioners. Such work shall be done without any cost whatsoever to **Wright County** and shall be completed within the date specified in said written notice. The Utility shall assume all liability and save **Wright County** harmless from any and all claims of damage of any nature whatsoever occasioned by reason of not having removed said utility within the time specified in said notice.

X. The Utility shall assume all liability for, and save the County, its agents and employees, harmless from, any and all claims for damages, actions or causes of action arising out of the work to be done herein and the continuing uses by the Utility, including but not limited to the placing, constructing, reconstructing, maintaining and using of said utility under this application and Permit.

XI. The Board of County Commissioners may require the Utility, or its contractor, to furnish a deposit in the form of a certified check, a surety bond or corporate undertaking, in favor of the Board of County Commissioners of **Wright County**, for any expense incurred by the County in the repairing of damage to any portion of the county highway right of way caused by work performed under a Permit, including any out of the ordinary engineering supervision and inspection expense provided by the county. In those instances wherein a deposit is required, the amount of the deposit shall be specified in the Special Provisions of the Permit. If a check is furnished, any monies remaining over and above such expense shall be returned to the applicant.

XII. The Permit as issued does not in any way imply an easement on private property.

XIII. The installations shall be made in conformity with all applicable laws; regulations and codes covering said installations. All installations shall be made in conformity with regulations of governmental agencies for the protection of the public.

XIV. Upon completion of an installation, the Utility shall restore the county highway right of way to its original condition. The Utility shall then notify the office of the County Highway Engineer of the completion of the work so that inspection can be made to determine its acceptability.

Aerial

I. There shall be only a single pole line on the county highway right of way on either side of the centerline thereof.

II. Longitudinal installations on county highways shall normally be located in the outer five feet of the right of way. At crossing of the county highway, poles shall be placed at a minimum of thirty feet from the shoulder lines of the through roadbeds unless right of way widths are prohibitive to such location.

III. The location of all brace poles, anchors and anchor poles within the limits of the county highway right of way shall be approved by the County Highway Engineer.

IV. In those instances in which a Utility is issued a Permit or Permits for construction on both sides of the county highway right of way in a given area, such Permit is conditioned upon the Utility subsequently providing joint use to other Utilities upon reasonable terms mutually agreeable to the Utilities.

Underground

I. All crossings of the roadbeds of the county highways shall be made by boring inside a casing or carrier pipe, or by jacking, unless this procedure is modified in the Special Provisions of the Permit. The auger shall not lead the casing or carrier pipe by more than one inch. Open trenching shall be restricted to the area from 5 feet beyond the shoulder to the right of way line except as modified in the Special Provisions of the Permit.

II. When pipes with bells or flanges are installed, the crossings of the roadbeds of the county highway shall be made by boring inside a conduit as provided in the paragraph I of this section or jacking a conduit of a sufficient diameter to permit threading the carrier pipe through it.

III. All voids caused by jacking or boring shall be filled by pressure grouting. The grout material shall consist of sand-cement slurry of at least two sacks of cement per cubic yard and a minimum of water to assure satisfactory placement.

IV. The underground utilities shall be so installed as virtually to preclude any necessity for disturbing the roadbeds to perform maintenance operations.

V. Underground installations shall be accomplished without damaging or destroying the principal root structure of specimen trees.

WRIGHT COUNTY
DEPARTMENT OF HIGHWAYS

Work on Right of Way Permit

SPECIAL PROVISIONS

In accordance with the application herein, a Right of Way Work Permit is granted to _____ to place, construct and thereafter maintain _____ on or across, or under the right of way of County Highway Number _____ in the location shown on the sketch which is a part of said application, or in such location as may be specified by the Department of Highways in the Special Provisions hereof.

Approved _____
(Date)

Board of County Commissioners
Buffalo, Minnesota

By _____
(Authorized Signature)

Permit Number _____
Project Number _____
Letter of Credit Number _____
Surety Bond Number _____
Date of S. Bond or C. Check _____
Bank or Bonding Co. _____
Check No. _____ Date _____
Permit Fee _____

COPIES:

Permit for Utility Improvements or Maintenance

Does your agency require a permit or agreement for utility improvements/maintenance?

If YES, please upload a copy of your agency's utility improvements/maintenance permit form or agreement.

COUNTY OF _____
DEPARTMENT OF HIGHWAYS

APPLICATION FOR UTILITY PERMIT on COUNTY HIGHWAY RIGHT-OF-WAY

Board of County Commissioners
_____, Minnesota
Attn: County Highway Engineer

C.S.A.H._____
C.R. _____

Application is hereby made for permission to place, construct, and thereafter maintain a _____ _____ along or across County Highway No. _____ from_____ to_____ _____feet from center line on the _____(East, west, north, or south) side of the county highway in accordance with the sketch shown on the inside hereof, or attached thereto.

I. AERIAL CONSTRUCTION

☐Single Pole
☐ H-Frame
☐ Single Pole and H-Frame
☐ Steel Tower
☐ Other _____

☐Open Wire
☐ Cable
☐Vertical
☐Cross-arm
☐ Vertical and Cross-arm

VOLTAGE	NUMBER OF CONDUCTORS	SIZE OF CONDUCTORS

Minimum height of conductor: _____ ft along highway _____ ft at crossing over highway

EXTENT AND LOCATION OF TREE TRIMMING AND/OR CLEARING:

II. UNDERGROUND CONSTRUCTION

CONDUIT

☐ Multiple Tile
☐ Transite
☐ Clay Tile
☐ Sectional Concrete
☐ Steel Pipe
☐ Other _____

CASING

☐ Steel Pipe ☐ Sectional Concrete ☐ Other _____

SIZE	DEPTH

VOLTAGE	NUMBER OF CONDUCTORS	SIZE OF CONDUCTORS

METHOD OF INSTALLING UNDER ROADBEDS (if open trench, explain why necessary)

☐ Open Trench _____
☐ Jacking ☐ Boring ☐Pneuma Gopher

EXTENT AND LOCATION OF TREE CLEARING	NEW FACILITY ☐	REPLACEMENT FACILITY ☐

III. Work to start on or after _____ and to be completed on or before _____.

IV. The applicant in carrying on any and all of the work herein above-mentioned or referred to in its application and in the Permit issued herefore, shall strictly conform to the terms of such Permit, and the regulations of the Board of County Commissioners, as set forth herein together with the Special Provisions, all of which are made a part hereof. The applicant specifically agrees to be bound hereby. The applicant shall also comply with the regulations of all other governmental agencies for the protection of the public. The work shall be accomplished in a manner that will not be detrimental to the highway and that will safeguard the public.

Date this _____ day of _____, _____

_____
Name of Company making application

Signature _____

By_____
Title

Address_____

Phone_____

DEFINITIONS

Utility. Under this order "utility" shall mean and include all privately, publicly, or co-operatively owned communication lines and facilities, any systems, lines and facilities for the distribut9on and transmission of electrical energy, oil, gas, water, sewer, steam, and other pipe lines, railways, ditches, flumes or other structures which under the laws of this State or the ordinance of any town or city may be constructed, placed, or maintained across, along, or on county highway right-of-way. Dependent upon the meaning intended in the context, "Utility" shall also mean the utility company, inclusive of any wholly owned subsidiary.

GENERAL

I. Except as otherwise permitted, utility construction and relocation on county highway right-of-way shall not be commenced until an application for a Permit has been made and such Permit granted. The Permit sketch shall show the location of the proposed utility with reference to county highway center line. A copy of the sketch shall be provided for each copy of such Permit.

II. Burning or disking operations and/or the use of chemicals to control or kill trees, brush and other vegetation is prohibited without prior approval from the County Highway Engineer.

III. All waterways and lines of drainage shall remain operative.

IV. Wherever topsoil and sod are disturbed they shall be replaced and maintained satisfactorily until the turf is established.

V. the utility facility and installation shall not interfere with any existing utility facilities on the county highway right-of-way.

VI. When necessary, barricades, warning devices and flagmen shall be provided by the Utility during all phases of their construction and maintenance operations on county highway right-of-way.

VII. At the time of construction of the utility and at the times of subsequent maintenance, prior approval shall be obtained from the County Highway Engineer for the cutting and trimming of trees within the county highway right-of-way. Wherever trees are cut the resulting stumps shall be removed unless otherwise provided in the Special Provisions of the Permit. Any holes caused by stump removal shall be backfilled, the area leveled and all materials associated therewith disposed of outside the county highway right-of-way. The utility shall advise the County Highway Engineer at least 48 hours in advance of its intent to start clearing and grubbing operations so that proper supervision can be provided.

VIII. The Utility shall notify the County Highway Engineer of its intent to perform service and maintenance operations which will interfere with the flow of traffic on county highways, and shall obtain his approval prior to performing such operations. However, the Company may perform service and maintenance operations on county highways including opening and disturbing the surface of the right-of-way without prior approval in those instances where an emergency exists that is dangerous to the life or safety of the public and which requires immediate repair. The Utility shall take all necessary and reasonable safety measures to protect the traveling public and shall notify the County Highway Engineer at the earliest possible moment.

IX. If at any time _____ County, acting through its Board of County Commissioners, shall deem it necessary to make any improvements or changes on all or any part of the right-of-way of the county highway which affect a utility located on county highway right-of-way, then and in such event, the owner of the utility shall within 15 days after written notice from the Board of County Commissioners, or its authorized agent, proceed to alter, change, vacate or remove said utility from the county highway right-of-way so as to conform to said county highway changes and as directed by the Board of County Commissioners. Such work shall be done without any cost whatsoever to _____ County and shall be completed within the date specified in said written notice. The Utility shall assume all liability and save _____ County harmless from any and all claims of damage of any nature whatsoever occasioned by reason of not having removed said utility within the time specified in said notice.

X. The Utility shall assume all liability for, and save the County, its agents and employees, harmless from, any and all claims for damages, actions or causes of action arising out of the work to be done herein and the continuing uses by the Utility, including but not limited to the placing, constructing, reconstructing, maintaining and using of said utility under this application and Permit.

XI. The Board of County Commissioners may require the Utility, or its contractor, to furnish a deposit in the form of a certified check, a surety bond, or corporate undertaking, in favor of the Board of County Commissioners of _____ County, for any expense incurred by the County in the repairing of damage to any portion of the county highway right-of-way caused by work performed under a Permit, including any out of the ordinary engineering supervision and inspection expense provided by the county. In those instances wherein a deposit is required, the amount of the deposit shall be specified in the Special Provisions of the Permit. If a check is furnished, any monies remaining over and above such expense shall be returned to the applicant.

XII. The Permit as issued does not in any way imply an easement on private property.

XIII. The installations shall be made in conformity with all applicable laws, regulations, and codes covering said installations. All installations shall be made in conformity with regulations of governmental agencies for the protection of the public.

XIV. Upon completion an installation, the Utility shall restore the county highway right-of-way to its original condition. The Utility shall then notify the office of the County Highway Engineer of the completion of the work so that inspection can be made to determine its acceptability.

AERIAL

I. There shall be only a single pole line on the county highway right-of-way on either side of the center line thereof.

II. Longitudinal installations on county highways shall normally be located in the outer five feet of the right-of-way. At crossing of the county highway, poles shall be placed at a minimum of thirty feet from the shoulder lines of the through roadbeds unless right-of-way widths are prohibitive to such location.

III. The location of all brace poles, anchors, and anchor poles within the limits of the county highway right-of-way shall be approved by the County Highway Engineer.

IV. In those instances in which a Utility is issued a Permit or Permits for construction on both sides of the county highway right-of-way in a given area, such Permit is conditioned upon the Utility subsequently providing joint use to other Utilities upon reasonable terms mutually agreeable to the Utilities.

UNDERGROUND

I. All crossings of the roadbeds of the county highways shall be made by boring inside a casing or carrier pipe, or by jacking, unless this procedure is modified in the Special Provisions of the Permit. The auger shall no lead the casing or carrier pipe by more than one inch. Open trenching shall be restricted to the area from 5 feet beyond the shoulder to the right-of-way line except as modified in the Special Provisions of the Permit.

II. When pipes with bells or flanges are installed, the crossings of the roadbeds of the county highway shall be made by boring inside a conduit as provided in paragraph I of this section or jacking a conduit of sufficient diameter to permit threading the carrier pipe through it.

III. All voids caused by jacking or boring shall be filled by pressure grouting. The grout material shall consist of a sand-cement slurry of at least two sacks of cement per cubic yard and a minimum of water to assure satisfactory placement.

IV. The underground utilities shall be so installed as virtually to preclude any necessity for disturbing the roadbeds to perform maintenance operations.

V. Underground installations shall be accomplished without damaging or destroying the principal root structure of specimen trees.

LOCATION SKETCH

Show location of proposed facility in relation to the center line of the county highway and other pertinent features such as right-of-way line, shoulder line, curb line and edge of surfacing. The facility should also be referenced to adjacent land lines.

_____ COUNTY
DEPARTMENT OF HIGHWAYS

UTILITY PERMIT

Reference: Project_____
C.S.A.H_____
C.R_____

In accordance with the applications herein, a Utility Permit is granted to _____ _____to place, construct, and thereafter maintain _____ _____ on or across, or under the right-of-way of County Highway No. _____ In the location shown on the sketch which is a part of said application, or in such location as may be specified by the Department of Highways in the Special Provisions hereof.

SPECIAL PROVISIONS:

Approved _____

Board of County Commissioners
_____Minnesota

By _____
County Highway Engineer

Copies:
h:\word\karen word files\permits\utility permit.doc

Permit No._____
Certified Check No._____
Surety Bond No._____
Date of S. Bond or C. Check_____
Bank or Bonding Co._____
Deposit Made by_____
_____

BLUE EARTH COUNTY

Effectively and Efficiently Delivering Essential Services

www.blueearthcountymn.gov

COMMISSIONERS

District 1 Drew Campbell
District 2 Vance Stuehrenberg
District 3 Mark Piepho
District 4 Will Purvis
District 5 Kip Bruender

Historic Courthouse
204 S. Fifth St.
PO Box 8608
Mankato, MN 56002

Administration
TEL: 507-304-4150
FAX: 507-304-4344

Extension
TEL: 507-304-4325
FAX: 507-304-4059

Finance
TEL: 507-304-4182
FAX: 507-304-4077

Physical Plant
TEL: 507-304-4249
FAX: 507-304-4203

Taxpayer Services
PO Box 3567
TEL: 507-304-4251
FAX: 507-304-4075

Government Center
410 S. Fifth St.
Mankato, MN 56001

Human Services
PO Box 3526
TEL: 507-304-4319
FAX: 507-304-4379

Environmental Services
PO Box 3566
TEL: 507-304-4381
FAX: 507-304-4431

Taxpayer Services/ License Center
PO Box 3524
TEL: 507-304-4340
FAX: 507-304-4396

Veterans Services
PO Box 8608
TEL: 507-304-4246
FAX: 507-304-4379

Information Technology
PO Box 8608
TEL: 507-304-4204
FAX: 507-304-4355

Public Works
35 Map Dr.
PO Box 3083
Mankato, MN 56002
TEL: 507-304-4025
FAX: 507-304-4049

Justice Center
401 Carver Road
PO Box 8608
Mankato, MN 56002

Sheriff's Office
PO Box 228
TEL: 507-304-4800
FAX: 507-304-4818

County Attorney
PO Box 3129
TEL: 507-304-4600
FAX: 507-304-4620

Probation
PO Box 3543
TEL: 507-304-4750
FAX: 507-304-4710

Library
100 E. Main St.
Mankato, MN 56001
TEL: 507-304-4001
FAX: 507-304-4009
www.beclibrary.org
TDD: 507-304-4399

MEMO

To: Applicants of Utility Permits

From: Ryan Thilges, P.E., Public Works Director/County Engineer

Date: April 18, 2017

Subject: Application for Working in Blue Earth County Right of Way

Included with this memo is your completed and signed Utility Permit that you have recently applied for with Blue Earth County Highway Department.

Enclosed is additional information we have added to this permit. With future applications of your Utility Permit you will be responsible for reviewing and following the information from the MN Statute 216D and MN One Call Excavation Notice Laws when working in the County Highway Right of Way. The Utility Permit and additional instructions can be found on the Blue Earth County Website at: www.blueearthcountymn.gov. Search Departments, Public Works/Parks, County Roads & Bridges, Permits, Utility Permit in Right of Way.

When applying for a Permit Application to the County, you will only need to include the first (4) pages. You do not need to include the instruction pages.

If you have further questions or concerns, please contact myself or Chad Wilde at 507-304-4025.

Enclosures (1)

H:\WORD-\KAREN WORD FILES\SANDY\Utility Permit Letter of New Instructions.docx

Blue Earth County is an affirmative action, equal opportunity employer. Printed on Recycled Paper PRINTED WITH SOY INK

216D.03 NOTIFICATION CENTER

Subdivision 1. **Participation.** An operator shall participate in and share in the costs of one statewide notification center operated by a vendor selected under subdivision 2.

Subd. 2. **Establishment of notification center; rules.** (a) The notification center services must be provided by a nonprofit corporation approved in writing by the commissioner. The nonprofit corporation must be governed by a board of directors of up to 20 members, one of whom is the director of the Office of Pipeline Safety. The other board members must represent and be elected by operators, excavators, and other persons eligible to participate in the center. In deciding to approve a nonprofit corporation, the commissioner shall consider whether it meets the requirements of this paragraph and whether it demonstrates that it has the ability to contract for and implement the notification center service.

(b) The commissioner shall adopt rules:

(1) establishing a notification process and competitive bidding procedure for selecting a vendor to provide the notification service;
(2) governing the operating procedures and technology needed for a statewide notification center; and
(3) setting forth the method for assessing the cost of the service among operators.

(c) The commissioner shall select a vendor to provide the notification center service. The commissioner may advertise for bids as provided in section 16C.06, subdivisions 1 and 2, and base the selection of a vendor on best value as provided in section 16C.06, subdivision 6. The commissioner shall select and contract with the vendor to provide the notification center service, but all costs of the center must be paid by the operators. The commissioner may at any time appoint a task force to advise on the renewal of the contract or any other matter involving the center's operations.

(d) An operator may submit a bid and be selected to contract to provide the notification center service under paragraph (a) or (c). The commissioner shall annually review the services provided by the nonprofit corporation approved under paragraph (a) or the vendor selected under paragraph (c).

Subd. 3. **Cooperation with local government.** In establishing operating procedures and technology for the statewide notification center, the board of directors or the commissioner must work in cooperation with the League of Minnesota Cities, the Association of Minnesota Counties, and the Township Officers' Association. The purpose of this cooperation is to maximize the participation of local governmental units that issue permits for activities involving excavation to assure that excavators receive notice of and comply with the requirements of sections 216D.01 to 216D.07.

Subd. 4. **Notice to local government.** The notification center shall provide local governmental units with a master list, by county, of the operators in the county who are participants in the notification center, and the telephone number and mailing address of the notification center.

History: *1987 c 353 s 9; 1997 c 187 art 1 s 15; 1998 c 386 art 2 s 69*

216D.04 EXCAVATION; LAND SURVEY

Subdivision 1. **Notice required; contents.** (a) Except in an emergency, an excavator shall and a land surveyor may contact the notification center and provide notice at least 48 hours, excluding Saturdays, Sundays, and holidays and not more than 14 calendar days before beginning any excavation or boundary survey. An excavation or boundary survey begins, for purposes of this requirement, the first time excavation or a boundary survey occurs in an area that was not previously identified by the excavator or land surveyor in the notice.

(b) The notice may be oral or written, and must contain the following information:

(1) the name of the individual providing the notice;

(2) the precise location of the proposed area of excavation or survey;

(3) the name, address, and telephone number of the individual or individual's company;

(4) the field telephone number, if one is available;

(5) the type and extent of the activity;

(6) whether or not the discharge of explosives is anticipated;

(7) the date and time when the excavation or survey is to commence; and

(8) the estimated duration of the activity.

Subd. 1a. **Plans for excavation.** (a) Any person, prior to soliciting bids or entering into a contract for excavation, shall provide a proposed notice to the notification center to obtain from the affected operators of underground facilities the type, size, and general location of underground facilities. Affected operators shall provide the information within 15 working days. An operator who provides information to a person who is not a unit of government may indicate any portions of the information which are proprietary and may require the person to provide appropriate confidentiality protection. The information obtained from affected operators must be submitted on the final drawing used for the bid or contract and must depict the utility quality level of that information. This information must be updated not more than 90 days before completion of the final drawing used for the bid or contract.

(b) This subdivision does not apply to bids and contracts for:

(1) routine maintenance of underground facilities or installation, maintenance, or repair of service lines;

(2) excavation for operators of underground facilities performed on a unit of work or similar basis; or

(3) excavation for home construction and projects by home owners.

(c) A person required by this section to show existing underground facilities on its drawings shall conduct one or more preliminary design meetings during the design phase to communicate the project design and coordinate utility relocation. Affected facility operators shall attend these meetings or make other arrangements to provide information.

(d) A person required by this section to show existing underground facilities on its drawings shall conduct one or more preconstruction meetings to communicate the project design and coordinate utility relocation. Affected facility operators and contractors shall attend these meetings or make other arrangements to provide information.

(e) This subdivision does not affect the obligation to provide a notice of excavation as required under subdivision 1.

Subd. 2. **Duties of notification center; regarding notice.** The notification center shall assign an inquiry identification number to each notice and retain a record of all notices received for at least six years. The center shall immediately transmit the information contained in a notice to every operator that has an underground facility in the area of the proposed excavation or boundary survey.

Subd. 3. **Locating underground facility; operator.** (a) Prior to the excavation start time on the notice, an operator shall locate and mark or otherwise provide the approximate horizontal location of the underground facilities of the operator and provide readily available information regarding the operator's abandoned and out-of-service underground facilities as shown on maps, drawings, diagrams, or other records used in the operator's normal course of business, without cost to the excavator. The excavator shall determine the precise location of the underground facility, without damage, before excavating within two feet of the marked location of the underground facility.

(b) Within 96 hours or the time specified in the notice, whichever is later, after receiving a notice for boundary survey from the notification center, excluding Saturdays, Sundays, and holidays, unless otherwise agreed to between the land surveyor and operator, an operator shall locate and mark or otherwise provide the approximate horizontal location of the underground facilities of the operator, without cost to the land surveyor.

(c) For the purpose of this section, the approximate horizontal location of the underground facilities is a strip of land two feet on either side of the underground facilities.

(d) Markers used to designate the approximate location of underground facilities must follow the current color code standard used by the American Public Works Association.

(e) If the operator cannot complete marking of the excavation or boundary survey area before the excavation or boundary survey start time stated in the notice, the operator shall promptly contact the excavator or land surveyor.

(f) After December 31, 1998, operators shall maintain maps, drawings, diagrams, or other records of any underground facility abandoned or out-of-service after December 31, 1998.

(g) An operator or other person providing information pursuant to this subdivision is not responsible to any person, for any costs, claims, or damages for information provided in good faith regarding abandoned, out-of-service, or private or customer-owned underground facilities.

Subd. 4. **Locating underground facility; excavator or land surveyor.** (a) The excavator or land surveyor shall determine the precise location of the underground facility, without damage, before excavating within two feet on either side of the marked location of the underground facility.

(b) If the excavator or land surveyor cancels the excavation or boundary survey, the excavator or land surveyor shall cancel the notice through the notification center.

(c) The notice is valid for 14 calendar days from the start time stated on the notice. If the activity will continue after the expiration time, then the person responsible for the activity shall serve an additional notice at least 48 hours, excluding Saturdays, Sundays, and holidays, before the expiration time of the original notice, unless the excavator makes arrangements with the operators affected to periodically verify or refresh the marks, in which case the notice is valid for six months from the start time stated on the notice.

(d) The excavator is responsible for reasonably protecting and preserving the marks until no longer required for proper and safe excavation near the underground facility. If the excavator has reason to believe the marks are obliterated, obscured, missing, or incorrect, the excavator shall notify the facility operator or notification center in order to have an operator verify or refresh the marks.

History: *1987 c 353 s 10; 1992 c 493 s 5; 1993 c 341 art 1 s 21; 1997 c 196 s 1; 1998 c 348 s 1-3; 2004 c 163 s 2-6*

216D.05 PRECAUTIONS TO AVOID DAMAGE

An excavator shall:

(1) plan the excavation to avoid damage to and minimize interference with underground facilities in and near the construction area;

(2) use white markings for proposed excavations except where it can be shown that it is not practical;

(3) maintain a clearance between an underground facility and the cutting edge or point of any mechanized equipment, considering the known limit of control of the cutting edge or point to avoid damage to the facility;

(4) provide support for underground facilities in and near the construction area, including during backfill operations, to protect the facilities; and

(5) conduct the excavation in a careful and prudent manner.

History: *1987 c 353 s 11; 1998 c 348 s 4; 2004 c 163 s 7*

216D.06 DAMAGE TO FACILITY

Subdivision 1. **Notice; repair.** (a) If any damage occurs to an underground facility or its protective covering, the excavator shall notify the operator promptly. When the operator receives a damage notice, the operator shall promptly dispatch personnel to the damage area to investigate. If the damage results in the escape of any flammable, toxic, or corrosive gas or liquid or endangers life, health, or property, the excavator responsible shall immediately notify the operator and the 911 public safety answering point, as defined in section 403.02, subdivision 19, and take immediate action to protect the public and property. The excavator shall also attempt to minimize the hazard until arrival of the operator's personnel or until emergency responders have arrived and completed their assessment. The 911 public safety answering point shall maintain a response plan for notifications generated by this section.

(b) An excavator shall delay backfilling in the immediate area of the damaged underground facilities until the damage has been investigated by the operator, unless the operator authorizes otherwise. The repair of damage must be performed by the operator or by qualified personnel authorized by the operator.

(c) An excavator who knowingly damages an underground facility, and who does not notify the operator as soon as reasonably possible or who backfills in violation of paragraph (b), is guilty of a misdemeanor.

Subd. 2. **Cost reimbursement.** (a) If an excavator damages an underground facility, the excavator shall reimburse the operator for the cost of necessary repairs, and for a pipeline the cost of the product that was being carried in the pipeline and was lost as a direct result of the damage.

(b) Reimbursement is not required if the damage to the underground facility was caused by the sole negligence of the operator or the operator failed to comply with section 216D.04, subdivision 3.

Subd. 3. **Prima facie evidence of negligence.** It is prima facie evidence of the excavator's negligence in a civil court action if damage to the underground facilities of an operator resulted from excavation, and the excavator failed to give an excavation notice under section 216D.04 or provide support as required by section 216D.05.

History: *1987 c 353 s 12; 1999 c 43 s 1*

216D.07 EFFECT ON LOCAL ORDINANCES

(a) Sections 216D.01 to 216D.07 do not affect or impair local ordinances, charters, or other provisions of law requiring permits to be obtained before excavating.

(b) A person with a permit for excavation from the state or a public agency is subject to sections 216D.01 to 216D.07. The state or public agency that issued a permit for excavation is not liable for the actions of an excavator who fails to comply with sections 216D.01 to 216D.07.

History: *1987 c 353 s 13*

CHAPTER 7560, EXCAVATION NOTICE SYSTEM
OFFICE OF PIPELINE SAFETY

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7560.0100 DEFINITIONS

Subpart 1. **Scope.** The terms used in this chapter have the meanings given them. Terms not defined in this part have the meanings given them in Minnesota Statutes, section 216D.01.

Subp. 1a. **Abandoned facility.** "Abandoned facility" means an underground facility that is no longer in service and is physically disconnected from a portion of the operating facility that is in use or still carries service. An abandoned facility has been deemed abandoned by the operator.

Subp. 2. **Director.** "Director" means the director of the Office of Pipeline Safety of the Minnesota Department of Public Safety.

Subp. 3. **Good cause to believe.** "Good cause to believe" means grounds put forth in good faith that are not arbitrary, irrational, unreasonable, or irrelevant and that are based on at least one of the following sources:

A. information from a person;

B. facts supplied by the notification center defined in Minnesota Statutes, section 216D.01, subdivision 8;

C. facts of which the director or an agent of the director has personal knowledge; and

D. information provided by excavators or operators.

Subp. 4. **Locate.** "Locate" means an operator's markings of an underground facility.

Subp. 5. [Renumbered as subp 8]

Subp. 5a. [Renumbered as subp 9]

Subp. 6. [Renumbered as subp 11]

Subp. 7. **Meet.** When used as a noun in this chapter, "meet" refers to a meeting at the site of proposed excavation requested at the time of notice by the excavator with all affected underground facility operators to further clarify the precise geographic location of excavation, schedule locating, propose future contacts, and share other information concerning the excavation and facilities.

Subp. 8. **Office.** "Office" means the Office of Pipeline Safety of the Minnesota Department of Public Safety.

Subp. 9. **Out-of-service facility.** "Out-of-service facility" means an underground facility that is no longer maintained and is not intended for future use, but has not been deemed abandoned. An out-of-service facility may still be connected to a portion of the operating facility that is in use or still carries service.

Subp. 10. **Public right-of-way.** "Public right-of-way" means the area on, below, or above a public roadway, highway, street, cartway, bicycle lane, and sidewalk in which a government unit has an interest, including other rights-of-way dedicated for travel purposes and utility easements of government units.

Subp. 11. **Remuneration.** "Remuneration" means direct or indirect compensation or consideration paid to the person or the person's agent, employer, employee, subcontractor, or contractor. A person who excavates as part of the person's duties as an employee, employer, agent, subcontractor, or contractor is considered to be acting for remuneration.

Subp. 12. **Service lateral.** "Service lateral" means an underground facility that is used to transmit, distribute, or furnish gas, electricity, communications, or water from a common source to an end-use customer. A service lateral is also an underground facility that is used in the removal of wastewater from a customer's premises.

Statutory Authority: *MS s 14.06; 216D.08; 299F.56; 299F.60; 299F.641; 299J.04*
History: *16 SR 135; 24 SR 448; 29 SR 1503*
Published Electronically: *July 20, 2005*

7560.0125 ABANDONED AND OUT-OF-SERVICE FACILITIES

Subpart 1. **Duty of operators to provide readily available information.** Operators shall provide readily available information, as shown on maps, drawings, diagrams, or other records used in the normal course of business, on the approximate location of abandoned and out-of-service facilities to an excavator by the excavation date and time noted on the excavation or location notice unless otherwise agreed between the excavator and the operator. An operator fulfills an obligation to provide information on these facilities by doing one or more of the following:

A. locating and marking the approximate location of the facility according to the current color code standard used by the American Public Works Association, as required in Minnesota Statutes, section 216D.04, subdivision 3, with an abandoned or out-of-service facility identified by an uppercase A surrounded by a circle;

B. providing informational flags at the area of proposed excavation;

C. communicating information verbally; or

D. providing copies of maps, diagrams, or records.

Subp. 2. **Duty to notify operator.** An excavator shall notify the operator:

A. before moving, removing, or otherwise altering a facility that is thought to be abandoned or out of service; or

B. if damage to the facility occurs, pursuant to Minnesota Statutes, section 216D.01, subdivision 2.

Subp. 3. **Verification of abandoned or out-of-service facility.** Upon receipt of notification by an excavator pursuant to subpart 2, an operator shall verify that an underground facility is abandoned or out of service, by either reference to installation records, testing, or other comparable standard of verification, before an excavator is allowed to move, remove, or otherwise alter an underground facility.

Subp. 4. **Liability.** An operator providing information pursuant to Minnesota Statutes, section 216D.04, subdivision 3, is not responsible to any person for any costs, claims, or damages for information provided in good faith regarding abandoned and out-of-service underground facilities.

Statutory Authority: *MS s 14.06; 216D.08; 299J.04; 299F.60*
History: *24 SR 448*
Published Electronically: *July 20, 2005*

7560.0150 PUBLIC RIGHT-OF-WAY MAPPING AND INSTALLATION

Subpart 1. **Duty of operator to map.** After December 31, 2005, an operator shall maintain a map, a diagram, a drawing, or geospatial information regarding the location of its underground facility within a public right-of-way installed after that date.

Subp. 2. **Duty to install locating wire.** After December 31, 2005, an operator shall install a locating wire or have an equally effective means of marking the location of each nonconductive underground facility within a public right-of-way installed after that date. This requirement does not apply when making minor repairs to an existing nonconductive facility. As applied to this chapter, "minor repairs" means repairs to or partial replacement of portions of existing service laterals located within a public right-of-way for purposes of routine maintenance and upkeep.

Statutory Authority: *MS s 299J.04*
History: *29 SR 1503*
Published Electronically: *July 20, 2005*

7560.0225 EXCAVATOR RESPONSIBILITIES REGARDING A LOCATE

Subpart 1. [Repealed, 29 SR 1503]

Subp. 2. **Responsibility to protect and preserve.** The excavator is responsible for reasonably protecting and preserving a locate until no longer required for proper and safe excavation near the underground facility. If the excavator has reason to believe a locate is obliterated, obscured, missing, or incorrect, the excavator shall notify the facility operator or notification center in order to have an operator verify, refresh, or re-mark the locate.

Subp. 3. **Use of locate.** A locate is valid for 14 days from the excavation commencement time stated on the excavation or location notice, unless the excavator has made previous arrangements with the operators affected to periodically verify, refresh, or re-mark the locate.

Statutory Authority: *MS s 14.06; 216D.08; 299J.04; 299F.60*
History: *24 SR 448; 29 SR 1503*
Published Electronically: *July 20, 2005*

7560.0350 EXCAVATION NOTICE REQUESTING MEET

Subpart 1. **Excavator duties.** When requesting a meet through the notification center, an excavator must provide at least one contact name and telephone number to assist in facilitating the meet. An excavator shall contact the notification center to cancel or reschedule the meet and the notification center shall relay this information to the affected operators. When a meet is requested, an excavator's notice must include the entire geographic area of the proposed excavation and the specific location of the meet. This part does not relieve an excavator from the duty to provide a precise geographic location of the proposed area of excavation, or to use white markings except where it can be shown that to do so is not practical.

Subp. 2. **Operator duties.** When a meet is requested, an affected operator shall make a reasonable effort to attend the meet at the proposed date and time, or contact the excavator before the meet and reschedule for a mutually agreed date and time.

Subp. 3. **Excavation start date and time.** When a meet is requested, the meet date and time must be at least 48 hours after notice is provided, excluding Saturdays, Sundays, and holidays, and the excavation start date and time must be at least 24 hours after the proposed meet date and time specified on the notice, excluding Saturdays, Sundays, and holidays. This subpart does not apply if these matters are provided for in a written agreement with all affected operators.

Subp. 4. **Meet request documentation.** An excavator shall maintain written documentation of each meet with an underground facility operator or representative. This documentation must be kept for the duration of the excavation conducted under the notice. The documentation must include:

A. the date and time of each meet;

B. the names, company affiliations, and contact information of the attendees of each meet;

C. a diagram, sketch, or description of the precise excavation locations, dates, and times; and

D. the agreed schedule of any future meets or communications.

Statutory Authority: *MS s 299J.04*
History: *29 SR 1503*
Published Electronically: *July 20, 2005*

7560.0250 LOCATE STANDARDS

Subpart 1. **Facility locate.** Unless otherwise agreed to between the excavator and operator, an operator shall locate an underground facility using stakes, flags, paint, or other suitable materials in varying combinations dependent upon the surface. The locate must be in sufficient detail to clearly identify the approximate route of the underground facility. The locate must also include:

A. name, abbreviation, or logo of the operator when more than one operator listed on the notice uses the same color markings;

B. width of the underground facility if it is greater than eight inches; and

C. number of underground facilities if greater than one.

Subp. 2. **Operator duties in no conflict situation.** After December 31, 2005, an operator who receives notice and determines that an underground facility is not in conflict with the proposed excavation shall complete one or more of the following:

A. mark the area "NO" followed by the operator's name, abbreviation, or logo in the color code of the underground facility not in conflict;

B. place a clear plastic flag at the area that:

(1) states "N/C" or "NO CONFLICT" in lettering matching the color code of the underground facility that is not in conflict; and

(2) includes the operator's name, abbreviation, or logo, the date, a contact telephone number, and the ticket number; or

C. contact the notification center through procedures required by the notification center and indicate that there are no underground facilities in conflict with the proposed excavation and that no markings or flags were left at the proposed excavation site.

Subp. 3. **Placement of flags or markings.** If using N/C (no conflict) flags or markings pursuant to subpart 2, an operator shall place the flags or markings in a location that can be readily observed by an excavator. When an area of proposed excavation is delineated by the use of white markings, an operator shall place the N/C flags or markings within, or as near as practicable to, the delineated area.

Subp. 4. **Duties of notification center.** After December 31, 2005, the notification center shall make the information received under subpart 2 available to the excavator before the start date and time on the notice. The notification center may fulfill this requirement by making the information accessible through one or more Internet addresses, by transmitting the information to a continuously working facsimile machine maintained by the excavator, or by other methodology developed by the notification center. The notification center shall make available the information received by operators pursuant to this section through an electronic means. The notification center is not required by this subpart to contact an excavator verbally via telephone.

Statutory Authority: *MS s 299J.04*
History: *29 SR 1503*
Published Electronically: *July 20, 2005*

7560.0300 OPERATOR PARTICIPATES AND SHARES COSTS

An operator shall participate in and share the costs of the one call excavation notice system by:

A. submitting the information required by the notification center to allow the center to notify the operator of excavation activity;

B. updating the information provided to the notification center on a timely basis;

C. installing and paying for equipment reasonably requested by the notification center to facilitate receipt of notice of excavation from the center;

D. paying the costs charged by the notification center on a timely basis; and

E. receiving and responding to excavation notices, including emergency notices, as required by Minnesota Statutes, chapter 216D.

Statutory Authority: *MS s 14.06; 216D.08; 299F.56; 299F.641*
History: *16 SR 135*
Published Electronically: *July 20, 2005*

7560.0325 EMERGENCY EXCAVATION NOTICES

Subpart 1. **Duty of excavator to provide notice.** An excavator shall provide notice to the notification center before commencing an emergency excavation, unless subpart 2 applies. All emergency notices, regardless whether made prior to excavation, must be verbal or in a manner accepted by the notification center. In addition to the information required by the notification center, the notice must also contain:

A. a description of the situation requiring the emergency excavation;

B. the precise location of the proposed area of the emergency excavation;

C. at least one continuously staffed telephone number where the excavator can be contacted by the operator throughout the emergency; and

D. the excavation start date and time if the need for excavation is not immediate.

Subp. 2. **Excavating before notice.** If an emergency is such that providing notice or waiting for an operator would result in an undue risk to life, health, or significant loss of property, the excavator may excavate without providing prior notice or waiting for an operator to mark an underground facility. In this situation, the excavator shall provide notice as soon as practicable and take all reasonable precautions to avoid or minimize damage. Excavation prior to notice under this subpart does not relieve an excavator from any responsibility for damage to an underground facility pursuant to Minnesota Statutes, section 216D.06.

Subp. 3. **Emergency notice requesting immediate response.** Upon receiving an emergency excavation notice requesting an immediate response, an operator shall:

A. attempt to contact the excavator within one hour at the telephone number provided in subpart 1, item C, to provide any information concerning facilities at or near the area of excavation including an anticipated response time; and

B. locate and mark the underground facility within three hours of notice unless:

(1) otherwise agreed between the parties;

(2) the operator notifies the excavator that not locating does not present an immediate danger to life or health, or a significant loss of property; or

(3) there is an event or situation that cannot be reasonably anticipated or controlled by the operator.

Subp. 4. **Emergency notice requesting scheduled response.** Upon receiving an emergency excavation notice that does not require an immediate response, and before the scheduled excavation start date and time, an operator shall:

A. locate and mark the underground facility, unless otherwise agreed between the parties; or

B. notify the excavator at the telephone number provided in subpart 1, item C, that there is not an underground facility within the area of proposed excavation.

For purposes of this subpart, a requested start time of three hours or less from the time notice is provided to the center is considered an emergency notice requesting immediate response under subpart 3.

Statutory Authority: *MS s 299J.04*
History: *29 SR 1503*
Published Electronically: *July 20, 2005*

7560.0375 LOCATING A SERVICE LATERAL

Subpart 1. **Operator duties.** Unless otherwise agreed, an underground facility operator shall locate a service lateral before the start date and time on the notice and in accordance with items A through C:

A. An operator of a natural gas, propane, or electric facility shall locate a service lateral up to the meter or the connection to a customer's underground facility, whichever is closer to the end-use customer. If the meter or connection to the customer's underground facility is within a public right-of-way, at a minimum the operator shall locate that portion of the service lateral within the public right-of-way up to the point where the service lateral first leaves the public right-of-way.

B. An operator of a communication facility shall locate a service lateral up to the entry of the first building. If the service lateral does not enter a building, the operator shall locate up to the utilization equipment, fence, or wall that surrounds the equipment.

C. After December 31, 2005, an operator of a sewage or water facility, at a minimum, shall locate that portion of the service lateral within a public right-of-way installed after that date up to the point where the service lateral first leaves the public right-of-way. The operator shall either locate or provide information as shown on maps, drawings, diagrams, or other records, on the location of a sewer or water service lateral installed before January 1, 2006. If no information is available on a sewer or water service lateral installed before January 1, 2006, then notifying the excavator that no information exists fulfills the requirements of this section.

Subp. 2. **Exception.** An operator is not required to locate a service lateral of a customer who currently participates in the statewide notification system, provided the customer and operator mutually agree that the customer will assume locate responsibilities. The agreement must be in writing.

Statutory Authority: *MS s 299J.04*
History: *29 SR 1503*
Published Electronically: *July 20, 2005*

7560.0400 CITATIONS

Subpart 1. **Notice of violation.** The office shall issue a notice of probable violation when the office has good cause to believe a violation of Minnesota Statutes, sections 216D.01 to 216D.09 or this chapter has occurred.

Subp. 2. **Contents of notice of violation.** A notice of violation must include:

A. a statement of the statute or rule allegedly violated by the person and a description of the evidence on which the allegation is based;

B. notice of response options available to the person cited;

C. notice that the person has 30 days in which to respond;

D. notice that failure to respond within 30 days precludes administrative review under this chapter; and

E. if a civil penalty is proposed, the amount of the proposed civil penalty and the maximum civil penalty applicable under law.

Subp. 3. **Receipt of notice.** The notice of violation is deemed received three days after mailing to the person's last known address.

Statutory Authority: *MS s 14.06; 216D.08; 299F.56; 299F.60; 299F.641; 299J.04*
History: *16 SR 135; 24 SR 448*
Published Electronically: *July 20, 2005*

7560.0500 RESPONSE OPTIONS

The person shall respond to the notice of violation in the following way:

A. When the notice contains a proposed compliance order, the person shall:

(1) agree to the proposed compliance order;

(2) request the execution of a consent order;

(3) object to the proposed compliance order and submit written explanations, information, or other materials in answer to the allegations in the notice; or

(4) request the office to initiate a hearing under Minnesota Statutes, sections 14.50 to 14.69.

B. When the notice contains a proposed civil penalty, the person shall:

(1) pay the penalty and close the case;

(2) submit an offer in compromise of the proposed civil penalty;

(3) submit a written explanation, information, or other material in answer to the allegations or in mitigation of the proposed civil penalty; or

(4) request the office to initiate a hearing under Minnesota Statutes, sections 14.50 to 14.69.

C. Failure to respond in writing within 30 days precludes administrative review under this chapter. A final order will be issued and penalties will be forwarded for collection.

Statutory Authority: *MS s 14.06; 216D.08; 299F.56; 299F.60; 299F.641; 299J.04*
History: *16 SR 135; 24 SR 448*
Published Electronically: *July 20, 2005*

7560.0600 DIRECTOR REVIEW

If the person objects to the proposed civil penalty or compliance order and submits written explanations, information, or other materials in response to a notice of violation, within the time specified in part 7560.0500, the director shall review the submissions and determine whether to negotiate further, to change or withdraw the notice of violation, or to initiate a hearing under Minnesota Statutes, sections 14.50 to 14.69.

Statutory Authority: *MS s 14.06; 216D.08; 299F.56; 299F.60; 299F.641; 299J.04*
History: *16 SR 135; 24 SR 448*
Published Electronically: *July 20, 2005*

7560.0700 CONSENT ORDER

An executed consent order must contain:

A. an admission by the person of the jurisdictional facts;

B. a waiver of further procedural steps and the right to seek judicial or administrative review or otherwise challenge or contest the validity of the consent order; and

C. an agreement that the notice of violation may be used to construe the terms of the consent order.

Statutory Authority: *MS s 14.06; 216D.08; 299F.56; 299F.641*
History: *16 SR 135*
Published Electronically: *July 20, 2005*

7560.0800 CIVIL PENALTIES

Subpart 1. **Proceedings against excavators.** When the office has good cause to believe that an excavator is engaging or has engaged in conduct that violates Minnesota Statutes, section 216D.04, subdivision 1, 2, or 3; 216D.05, clause (1), (2), (3), or (4); or 216D.06, subdivision 1, or a rule adopted under Minnesota Statutes, section 216D.08, subdivision 4, the office, if appropriate, shall negotiate a civil penalty under Minnesota Statutes, section 216D.08, subdivision 2. A penalty imposed under Minnesota Statutes, section 216D.08, is subject to the contested case and judicial review provisions of Minnesota Statutes, chapter 14. An operator who engages or has engaged in excavation that violates Minnesota Statutes, chapter 216D, is subject to the proceedings specified in subpart 2 and is subject to the penalties specified in subpart 4, item B or C.

Subp. 2. **Proceedings against underground facility operators.** The office may negotiate a civil penalty under item A or B.

A. When the office has good cause to believe that an underground facility operator, other than an operator set forth in item B, is engaging or has engaged in conduct that violates Minnesota Statutes, sections 216D.01 to 216D.07, or a rule adopted under Minnesota Statutes, section 216D.08, subdivision 4, the office, if appropriate, shall negotiate a civil penalty under Minnesota Statutes, section 216D.08, subdivision 2. A penalty imposed under Minnesota Statutes, section 216D.08, is subject to the contested case and judicial review provisions of Minnesota Statutes, chapter 14.

B. When the office has good cause to believe that an operator who engages in the transportation of gas or hazardous liquids or who owns or operates a gas or hazardous liquid pipeline facility is engaging or has engaged in conduct that violates Minnesota Statutes, sections 299F.56 to 299F.641, or a rule adopted under Minnesota Statutes, section 299F.60, subdivision 5, the office, if appropriate, shall negotiate a civil penalty under Minnesota Statutes, section 299F.60, subdivision 2. A penalty imposed under Minnesota Statutes, section 299F.60, is subject to the contested case and judicial review provisions of Minnesota Statutes, chapter 14.

Subp. 3. **Assessment considerations.** In assessing a civil penalty under this part, the office shall consider the following factors:

A. the nature, circumstances, and gravity of the violation;

B. the degree of the person's culpability;

C. the person's history of previous offenses;

D. the person's ability to pay;

E. good faith on the part of the person in attempting to remedy the cause of the violation;

F. the effect of the penalty on the person's ability to continue in business; and

G. past reports of damage to an underground facility by a person.

Subp. 4. **Maximum penalties.** For the purposes of this part, penalties imposed under this part must not exceed the limits in items A to C.

A. Penalties imposed against excavators must not exceed $1,000 for each violation per day of violation.

B. Penalties imposed against underground facility operators, other than an operator set forth in item C, must not exceed $1,000 for each violation per day of violation.

C. Penalties imposed against an operator who engages in the transportation of gas or hazardous liquids or who owns or operates a gas or hazardous liquid pipeline facility must not exceed $10,000 for each violation for each day that the violation persists, except that the maximum civil penalty must not exceed $500,000 for a related series of violations.

Subp. 5. **Payment procedure.** The person shall pay a civil penalty that has been proposed, assessed, or compromised by submitting to the office a check or money order in the correct amount, payable to the commissioner of public safety.

Statutory Authority: *MS s 14.06; 216D.08; 299F.56; 299F.60; 299F.641; 299J.04*
History: *16 SR 135; 24 SR 448*
Published Electronically: *July 20, 2005*

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Subject: Ticket: 163500436
From: mn@gopherstateonecall.org
Date: 12/15/2016 12:11 PM
To: kimw@occinc.com

Gopher State One Call

Your ticket has a legal start date and time of 12/19/2016 12:15 PM.

You must ensure that the entire ticket is correct and that the entire work area is mapped correctly by clicking - HERE. If any information is incorrect, call 1-866-640-3637 or 651-454-0002 or 811.

Mark the excavation area with white paint or flags.

You may check the facility operator Positive Response or update or cancel your ticket by clicking - HERE.

An email with the facility operator responses will be sent to you at the legal start date and time of your ticket.

This ticket is valid for 14 days from the legal start date and time. The expiration date and time is 01/02/2017 12:15 PM .

TICKET SUMMARY

Ticket Number:	163500436	**Old Ticket:**	
By:	mnkimboy	**Source:**	VOICE
Type:	NORMAL	**Date:**	12/15/2016 12:04 PM
	Company Information		
Company:	TEST COMPANY NAME	**Type:**	CONTRACTOR
Address:	12345 TEST STREET TEST CITY, MN 12456		
Caller:	KIM BOYD	**Phone:**	(555) 555-5555
Contact:	FIELD CONTACT	**Phone:**	(555) 555-5555
Company Phone:	(555) 555-5555	**Comany Fax:**	(866) 811-2644
Email Address:	kimw@occinc.com		
	Work Information		
State:	MN	**Work Date:**	12/19/2016 12:15 PM
County:	AITKIN	**Work Being Done For:**	KIM BOYD
Place:	WEALTHWOOD TWP		
Street:	1234 385TH AVE		
Intersection:	240TH ST		
Type of Work:	INSTALL IRRIGATION SYSTEM - TEST		
Explosives:	N	**Tunnel/Bore:**	N
R.O.W.:	N	**Duration:**	2 DAYS
Area Marked:	Yes		

Remarks Information

Location of Work:

FROM 240TH ST GO SOUTH ON 385TH AVE APPX 2 MILES TURN AND GO EAST APPX 1 MILE TO SITE MARKED WITH A WHITE FLAG ON N SIDE OF ROAD. MARK A 100FT RADIUS OF FLAG.

JOB #: 12345

MARK WITH PAINT AND FLAGS.

FACILITY OPERATORS NOTIFIED

Code	COMPANY NAME	Phone
TEST01	ONE CALL CONCEPTS	(651)681-5700
TEST03	ONE CALL CONCEPTS	(651)681-5700

EXCAVATOR RESPONSIBILITIES

- It is your responsibility to determine which facility operators have responded to the ticket. For questions concerning facility operator responses to your ticket contact them directly via their phone number on the ticket.
- You can refresh the markings by going to HERE to request an Update.
- Keep your ticket current; update if necessary at least 48 hours before the expiration date and time of your ticket, excluding weekends and holidays by clicking HERE to request an Update.
- Use safe excavation practices. Maintain the minimum safe tolerance zone. If a damage occurs keep yourself and those around you safe. Call 911 if you strike gas, propane, hazardous liquids or if there is the possibility of risk to persons and property. Call the facility operator to report the damage. Do not repair your own damage.
- Inspect the excavation area for private facilities that are not marked with a call to Gopher State One Call. More information about private facilities can be found at private facilities.

Gopher State One Call Locate Request

NEW

Ticket Number:	163500436	Old Ticket:	
By:	mnkimboy	Source:	VOICE
Type:	NORMAL	Date:	12/15/2016 12:11 PM
Send To:	TEST01	Sequence:	1

Company Information

TEST COMPANY NAME
12345 TEST STREET
TEST CITY, MN 12456

Type: CONTRACTOR

Caller:	KIM BOYD	Caller Phone:	(555) 555-5555
Contact:	FIELD CONTACT	Contact Phone:	(555) 555-5555
Company Phone:	(555) 555-5555	Company Fax:	(866) 811-2644
Company Email:	kimw@occinc.com		

Work Information

State:	MN	Work Date:	12/19/2016 12:15 PM
County:	AITKIN	Done For:	KIM BOYD
Place:	WEALTHWOOD TWP		
Street:	1234 385TH AVE		
Intersection:	240TH ST		
Type of Work:	INSTALL IRRIGATION SYSTEM - TEST		
Explosives:	No	Tunnel/Bore:	No
Right of Way:	No	Duration:	2 DAYS
Area Marked:	Yes		

Remarks Information

FROM 240TH ST GO SOUTH ON 385TH AVE APPX 2 MILES TURN AND GO EAST APPX 1 MILE TO SITE MARKED WITH A WHITE FLAG ON N SIDE OF ROAD. MARK A 100FT RADIUS OF FLAG.
JOB #: 12345

MARK WITH PAINT AND FLAGS.

Link To Map_LINK for TEST01: http://mn.itic.occinc.com/BR2G-VSR-R2H-Z6H

Facility Operators

Code	Name	Phone Number
TEST01	ONE CALL CONCEPTS	(651) 681-5700
TEST03	ONE CALL CONCEPTS	(651) 681-5700

Location

Number of Excavation Locations: 1
Coordinates for each location:
Loc 1 : NW Lat: 46.333736 Lon: -93.635046 SE Lat: 46.329913 Lon: -93.629509
T 45N R 26W S 33 Q SW T 45N R 26W S 33 Q SE T 44N R 26W S 4 Q NW
T 44N R 26W S 4 Q NE

APPLICATION AND AGREEMENT FOR EXCAVATION AND/OR OBSTRUCTION PERMIT ON ROADS UNDER COUNTY JURISDICTION

COUNTY OF CHISAGO
DEPARTMENT OF PUBLIC WORKS
313 N. Main Street, Room 400
Center City, MN 55012
Permit Department: 651-213-8705
Fax: (651) 213-8772
Email: Scott.Johnson@chisagocounty.us

Board of Commissioners, Chisago County, Minnesota

Attn: Director of Public Works

Application is hereby made for permission to place, excavate, or obstruct the right-of-way with a _____ _____ (along or across) **County Highway No.** _____ in accordance with the sketch attached hereto.

Attached Plan Submitted by: (Utility Owner) _____ Joint Application by several utilities.

Plan No: _____ Project No: _____

Registration No: _____ Telephone No _____

Applicant: _____ Fax No: _____

Address: _____ Cell No: _____

City: _____ State: _____ Zip Code: _____ Email: _____

Signature: _____ Date: _____

Registration No: _____ Telephone No _____

Contractor: _____ Fax No: _____

Address: _____ Cell No: _____

City: _____ State: _____ Zip Code: _____ E-mail: _____

Contact Person: _____ Telephone No _____

24 Hour Contact: _____ Cell No: _____

CONSTRUCTION INFORMATION
TYPE OF UTILITY

County Road Number: _____ Municipality: _____ Location: _____

From and To: _____

Gas: _____ Electrical: _____ Telecom: _____ Cable T.V. _____ Traffic: _____

Water: _____ Sewer: _____ Other: _____

Size: _____ Type of Pipe/Conduit: _____

Casing Pipe if required: Size: _____ Material: _____

PURPOSE OF CONSTRUCTION

New: _____ Replacement: _____ Repair: _____ Other: _____

TYPE OF CONSTRUCTION

Trench: _____ Chamber: _____ Hole: _____ Pole: _____ Other: _____

Excavation Size: _____ Length: _____ Width: _____ Depth: _____

Total Linear Footage of Installation in County Right of Way: _____

Portion of ROW being Used - Driving Lane: _____ Parking Lane: _____ Shoulder: _____ Sidewalk: _____

Boulevard: _____ Other: _____

Ditch Inslope/ Backslope: _____ Distance from Centerline: _____

STRUCTURE DIMENSIONS

Height: _____ Width: _____ Depth: _____

Placement of Structure from Centerline: _____ Is Structure Buried: Yes_____ No _____

Crash Worthiness: Yes_____ No____ Excavation of Road Surface: Yes_____ No _____

Utility poles and guy anchors, and any other equipment shall conform to NCHRP 350 standards for, crash worthiness or must be located outside of applicable clear zones. (Sec.1.24. Subd.1.)

CONSTRUCTION SCHEDULE

Construction Starts Date: _____ Number of Construction Days: _____

Construction Ends Date: _____ Weekend Dates: _____

FOR OFFICE USE ONLY

Special Provision: _____

Approval Date: _____

Approved By: _____

Scott A. Johnson
Sr. Engineering Technician 651-213-8705

Permit Number: _____
Road Number: _____
Municipality: _____
Permit Fee: _____

City of Albert Lea Right of Way Permit

221 E. Clark Street, Albert Lea, MN 56007 507-377-4325 Fax: 507-377-4336

Applicant _____
Person Performing Work _____
Address: _____
Contact Name & Phone No. : _____
Email Address: _____

Property Owner _____
Address – Location _____
Lot: _____ Block: _____
Parcel ID: _____
Email Address: _____

Permit Requested

☐ Street/Alley Obstruction
☐ Boulevard Construction
☐ Construction Noise Ord.
☐ Sidewalk Construction
☐ Driveway Construction
☐ General Utility (gas, electric, phone, cable, etc.)

*** 2 year warranty for all work**

OFFICE USE ONLY

Permit is Valid

_____ to _____

Permit # _____

Pmt. Date _____
(if applicable)

Described Work to be Performed

_____

_____

Work Schedule Work to commence on/after _____ Work to be completed by _____
Traffic (if applicable) Street closure on _____ Reopen street by _____
☐ Detouring route _____

Installation Methods ☐ Open Trench ☐ Boring ☐ Jacking ☐ Other _____

Installation Materials
_____ Plastic Pipe _____ Sanitary Service ☐ Plastic ☐ Clay ☐ Cast Iron
_____ Subdrain _____ Storm Sewer _____ Copper Water Service _____ Ductile Iron
_____ Fiber Optic _____ Coaxial Cable _____ Copper/Plastic Gas Line _____ Copper Wire
Concrete ☐SW ☐DW _____ Bituminous Path _____ Other Material _____

Installation Location/Size _____ Width/Diameter _____ Length of Installation _____ Depth
☐ Blvd to Building ☐ Main to Blvd ☐ Other _____
Installation Purpose ☐ New Installation ☐ Replacement ☐ Repair ☐ Disconnect/Abandon
Restoration Areas ☐ Curb & Gutter ☐ Sidewalk ☐ Roadway ☐ Blvd/Vegetation
Service Area Stubbed Bevond Curb Box ☐

Permit Issuance
Owner/Applicant's Signature (Utility Permits Only) _____ Date _____
Contractor's Signature (Utility Permits Only) _____ Date _____
Owner/Applicant/Contractor Notes: _____

_____

City Signature _____ Date _____
City Notes: _____

_____

_____

Owner, Applicant, Contractor hereby agrees to comply with the ordinances of the City of Albert Lea and the engineering standards of the Public Works Department, regulations of the State of Minnesota and the Federal Government and agree to fully comply with the satisfaction of the City Engineer and also agrees to the additional requirements/regulations, noted on page 2 of this permit, and is responsible for signing per MN MUTCD ADA Compliant.

RECEIPT
☐ Street/Alley Obstruction
☐ Boulevard Construction
☐ Construction Noise Ord.
☐ Sidewalk Construction
☐ Driveway Construction
☐ General Utility (gas, electric, phone, cable, etc.)

Permit No. _____

Valid from _____ to _____

Applicant _____

Entered By _____

City of Albert Lea Right of Way Permit Regulations

Note: *The following regulations apply to and are conditions of the permit issued as a result of this application.*

GENERAL

1. The permit is revocable in nature. If the City shall make any improvements or change on all or part of its ROW which impacts Applicant's installation, then and in every case the applicant herein named shall, after notice from the City or its authorized agents, proceed to alter, change, vacate or remove from ROW said installation necessary to conform with said changes. Any work performed by the Applicant as a result of City's ROW-modification shall be at Applicant's sole cost and expense.
2. The Applicant shall assume all liability for, and save the City, its agents and employees, harmless from, any and all claims for damages, actions or causes of action arising out of the work to be done herein and the continuing uses by the Applicant, including but not limited to the placing, construction, reconstructing, maintaining and using of said utility under this application and permit.
3. ROW shall be cleaned up after work is completed.
4. No work shall be done in such a manner as to create or maintain a nuisance.
5. After Applicant completes its work in the ROW, Applicant must notify the City Engineer within 2 working days that such work has been completed and is ready for final inspection. Call City Engineering Department at 507-377-4325 for an inspection request.
6. A certified check or deposit may be required to ensure proper restoration of surfaces and to cover payment for any damage to street or public property.
7. Permittee warrants all work, including settlement of backfill, for 2 years.

SAFETY

1. Applicant shall erect safety devices for the protection of the work and the safety of the public that conform to the requirements of the Manual of the Uniform Traffic Control Devices.
2. Blasting is not permitted unless prior approval is given by the City.
3. For trenching operations it is Applicant's responsibility to be familiar with and follow the provisions of the Department of Labor and Industry Occupational Safety and Health Rules.
4. Contractor shall notify area utilities through the state wide Gopher One Call 800-252-1166 prior to any excavation.
5. Permittee agrees to abide by the MUTCD traffic standards.

ROADWAY, SIDEWALK, AND BOULEVARD REPLACEMENT

1. Installation of pipe under concrete or high type bituminous pavements shall be done by jacking or boring unless trenching is specifically permitted in the Special Provision of the Permit.
2. All backfilling must be placed in layers and thoroughly tamped and material must be flush and even with the surface when finally in place.
3. All surfaces shall be restored to original conditions.
4. All surfaces shall be restored by the Contractor with the exception of street surfaces which will be replaced by the Department of Public Works and charged to the Contractor at current Revised Street Opening Rates, approved by the City Council.
5. If settlement occurs or the excavation caves in so that replacement materials settle at any time, or if the roadway surface deteriorates or fails to serve as well as the original surface, within a period of two years after the completion of this project, it shall be repaired and replaced by the Applicant.

MAPPING

1. Permittee agrees to provide electronic copies or hard copies and as built constructed information for the project to Public Works.

Application for ROW-Underground/Aerial Permit

City of Bloomington MN Utility/ROW
City of Bloomington Utilities Division
1800 W Old Shakopee Rd
Bloomington MN 55431
952-563-8777

Permit#: **2018-G730**
Status: Active
Street: EMERSON AVE

Applicant		Company of Applicant		Contractor	
Name:	Kim . Ignatowicz	**Name:**	CenterPoint Energy	**Name:**	Michels Contracting
Title:	Engineering Assistant	**Address:**	700 W Linden Ave Minneapolis, MN 55440-1165	**Address:**	22100 Pillsbury Ave Lakeville , MN 55044
Phone:	(612) 321-5325	**Phone:**	(612) 321-5325	**Phone:**	(612) 321-5325
Email:	kimberly.ignatowicz@centerpointenergy.com	**Fax:**	(612) 321-5480	**Email:**	kimberly.ignatowicz@centerpointenergy.com
		Certificate of Insurance:	COI for the City of Bloomington.pdf		
		Performance Bond:	COI for the City of Bloomington.pdf		

Construction Dates

Start: 07/23/2018 **End:** 10/01/2019

Underground

Conduit/casing type:	Polyethylene (PE)
Underground type:	Natural Gas
Method of installation:	Horizontal Direction Drilling (HDD)
Trench size:	AS NEEDED
Depth:	3'

Payment method

Credit Card

Payment details

ROW Hole/Trench Base	$208.00
ROW Permit Processing Fee	$36.00
ROW Potholing	$52.00
ROW Potholing Addl	$294.00
ROW Underground Per Ft	$760.06
Total:	$1,350.06

Description or Work & New or Existing

SAP# 86767774 - MGC# 18-3900 - CONTACT TJ HAIDER 612-321-5132 - REPLACE EXISTING GAS MAIN & SERVICES

General Location or Site Address

EMERSON AVE FROM 83 ST TO 84 1/2 ST

Site(s)

Street	Length in Feet	From	To	Relative to Road Surface
EMERSON AVE	852	83 ST	84 1/2 ST	Pavement & Boulevard

86767774 BLOOMINGTON.pdf

Special provisions:

- * Contact Tim Groff at (desk) 952-563-4568 or (cell) 952-292-8000 at least 24 hours PRIOR to construction. Failure to contact shall be considered a violation of the permit and grounds for dismissing contractor from job site.
- * If all work under this permit is completed, click the green flag icon in Permit view to change the status to 'Ready for Inspection'.
- * Installers to Provide open cut windows (pothole) over All City of Bloomington Utility crossings. Pothole is to be at the boring depth to visually see boring tool cross City Utility.
- * Applicant shall adhere to a construction depth of 3-4 ft. Any deviation from this depth will require prior consent from the City.
- *All junction boxes or access points shall be located no closer than ten feet from city hydrants, valves, manholes, lift stations or catch basins unless an alternate location is approved by the city.
- * Place new UNDERGROUND Facilities no closer than 5 ft. from any Water Gate Valve, Hydrant or Water Service connection.
- *Underground facilities shall not be installed between a hydrant and an auxiliary valve.
- * Any Deviation of Original plan requires prior consent from City.
- * All restoration Shall be equal to or Better than original.
- * All signage, stormwater inlet protection, and other construction related materials must be removed in a timely fashion at end of construction.
- *Any sidewalk removal will require a temporary repair if a permanent restoration is to be delayed. Full panel replacement required.
- *Use of Pneuma Gopher not Permitted**

Notes:

No notes

General

- The completion of a Utility/ROW Permit Application DOES NOT give the Applicant approval to begin work. You will receive notificaton by email when your application has been approved.

Right-of-Way

- 1) All applicants for Right-of-Way Permits shall comply with ARTICLE IV. RIGHT-OF-WAY MANAGEMENT AND LOCATING OF UNDERGROUND FACILITIES of the Bloomington City Code.
  2) City of Bloomington Traffic Control and Erosion Control standards must be followed. A Traffic Control plan must be submitted with application.
  3) HDD Contractors shall provide open cut windows over all City of Bloomington Utility crossings and verify depths using only Minnesota Office of Pipeline Safety approved methods.
  4) Contact Tim Groff at 952-563-4568 24 HOURS PRIOR TO COMMENCEMENT OF WORK.
- Any sidewalk removal will require a temporary repair if a permanent restoration is to be delayed

Form No. 2962
BUSINESS RECORDS CORPORATION
MINNESOTA

COUNTY OF COTTONWOOD
DEPARTMENT OF PUBLIC WORKS

APPLICATION FOR UTILITY PERMIT ON COUNTY HIGHWAY RIGHT OF WAYS

Board of County Commissioners
Windom, Minnesota
Attn: County Highway Engineer

C.S.A.H _____
C.R _____

Application is hereby made for permission to place, construct and thereafter maintain a _____ _____along or across County Highway No._____from _____ _____ to _____feet from center line on the_____(east, west, north or south) side of County Highway in accordance with the sketch shown on the inside hereof, or attached thereto.

I. AERIAL CONSTRUCTION

- ☐ Single Pole
- ☐ H-Frame
- ☐ Single Pole and H-Frame
- ☐ Steel Tower
- ☐ Other _____

- ☐ Open Wire
- ☐ Cable
- ☐ Vertical
- ☐ Cross-arm
- ☐ Vertical and Cross-arm

VOLTAGE	NUMBER OF CONDUCTORS	SIZE OF CONDUCTORS

Minimum height of conductor:_____ft. along highway_____ft. at crossing over highway

EXTENT AND LOCATION OF TREE CLEARING:

II. UNDERGROUND CONSTRUCTION

CONDUIT

- ☐ Multiple Tile
- ☐ Transite
- ☐ Clay Tile
- ☐ Sectional Concrete
- ☐ Steel Pipe
- ☐ Other _____

CASING

- ☐ Steel Pipe
- ☐ Sectional Concrete
- ☐ Other _____

SIZE	DEPTH

VOLTAGE	NUMBER OF CONDUCTORS	SIZE OF CONDUCTORS

METHOD OF INSTALLING UNDER ROADBEDS (if open trench, explain why necessary)

- ☐ Open Trench _____
- ☐ Jacking
- ☐ Boring
- ☐ Pneuma Gopher

EXTENT AND LOCATION OF TREE CLEARING:	**New Facility**	Replacement Facility
	☐	☐

III. Work to start on or after_____and to be completed on or before_____.

IV. The applicant in carry on any and all of the work herein above mentioned or referred to in its application and in the Permit issued herefore, shall strictly conform to the terms of such Permit, and the regulations of the Board of County Commissioners, as set forth herein together with the Special Provisions, all of which are made a part hereof. The applicant specifically agrees to be bound hereby. The applicant shall also comply with the regulations of all other governmental agencies for the protection of the public. The work shall be accomplished in a manner that will not be detrimental to the highway and that will safeguard the public.

Date this_____day of_____, 20 ____

_____
Name of Company making application (Utility)

Signature _____

By _____
Title

Address _____

Fax Number _____ Email _____

Contractor _____ C-148 _____
Contractor Contact Info

Rules and Regulations of Board of County Commissioners for Utilities on County Highways.

DEFINITIONS

Utility. Under this order "utility" shall mean and include all privately, publicly or co-operatively owned communication lines and facilities, any systems, lines and facilities for the distribution and transmission of electrical energy, oil, gas, water, sewer, steam and other pipe lines, railways, ditches, flumes or other structures which under the laws of this State or the ordinance of any town or city may be constructed, placed or maintained across, along or on county highway right of way. Dependent upon the meaning intended in the context, "Utility" shall also mean the utility company, inclusive of any wholly owned subsidiary.

GENERAL

I. Except as otherwise permitted, utility construction and relocation on county highway right of way shall not be commenced until an application for Permit has been made and such Permit granted. The Permit sketch shall show the location of the proposed utility with reference to county highway centerline. A copy of the sketch shall be provided for each copy of such Permit.

II. Burning or disking operations and/or the use of chemicals to control or kill trees, brush and other vegetation is prohibited without prior approval from the County Highway Engineer.

III. All waterways and lines of drainage shall remain operative.

IV. Wherever topsoil and sod are disturbed they shall be replaced and maintained satisfactorily until the turf is established.

V. The utility facility and installation shall not interfere with any existing utility facilities on the county highway right of way.

VI. When necessary, barricades, warning devices and flagmen shall be provided by the Utility during all phases of their construction and maintenance operations on county highway right of way.

VII. At the time of construction of the utility and at the times of subsequent maintenance, prior approval shall be obtained from the County Highway Engineer for the cutting and trimming of trees within the county highway right of way. Wherever trees are cut the resulting stumps shall be removed unless otherwise provided in Special Provisions of the Permit. Any holes caused by stump removal shall be backfilled, the area leveled and all materials associated therewith disposed of outside the county highway right of way. The utility shall advise the County Highway Engineer at least 48 hours in advance of its intent to start clearing and grubbing operations so that proper supervision can be provided.

VIII. The Utility shall notify the County Highway Engineer of its intent to perform service and maintenance operations which will interfere with the flow of traffic on county highways, and shall obtain his approval prior to performing such operations. However, the Company may perform service and maintenance operations on county highways including opening and disturbing the surface of the right of way without prior approval in those instances where an emergency exists that is dangerous to the life or safety of the public and which requires immediate repair. The Utility shall take all necessary and reasonable safety measures to protect the traveling public and shall notify the County Highway Engineer at the earliest possible moment.

X. The Utility shall assume all liability for, and save the County, its agents and employees, harmless from, and all claims for damages, actions or causes of action arising out of the work to be done herein and the continuing uses by the Utility, including but not limited to placing, constructing, reconstructing, maintaining and using of said utility under this application and Permit.

XI. The Board of County Commissioners may require the Utility, or its contractor, to furnish a deposit in the form of a certified check, a surety bond or corporate undertaking, in favor of the Board of County Commissioners of Cottonwood County, for any expense incurred by the County in the repairing of damage to any portion of the county highway right of way caused by work performed under a Permit, including any out of the ordinary engineering supervision and inspection expense provided by the county. In those instances wherein a deposit is required, the amount of the deposit shall be specified in the Special Provisions Permit. If a check is furnished, any monies remaining over and above such expense shall be returned to the applicant.

XII. The Permit as issued does not in any way imply an easement on private property.

XIII. The installations shall be made in conformity with all applicable laws, regulations and codes covering said installations. All installations shall be made in conformity with regulations of governmental agencies for the protection of the public.

XIV. Upon completion of an installation, the Utility shall restore the county highway right of way to its original condition. The Utility shall then notify the office of the County Highway Engineer of the completion of work so that inspection can be made to determine its acceptability.

AERIAL

I. There shall be only a single pole line on the county highway right of way on either side of the center line thereof.

II. Longitudinal installations on county highways shall normally be located in the outer five feet of the right of way. At crossing of the county highway, poles shall be placed at a minimum of thirty feet from the shoulder lines of the through roadbeds unless right of way widths are prohibitive to such location.

III. The location of all brace poles, anchors and anchor poles within the limits of the county highway right of way shall be approved by the County Highway Engineer.

IV. In those instances in which a Utility is issued a Permit or Permits for construction on both sides of the county highway right of way in a given area, such Permit is conditioned upon the Utility subsequently providing joint use to other Utilities upon reasonable terms mutually agreeable to the Utilities.

UNDERGROUND

I. All crossings of the roadbeds of the county highways shall be made by boring inside a casing or carrier pipe, or by jacking unless this procedure is modified in the Special Provisions of the Permit. The auger shall not lead the casing or carrier pipe by more than one inch. Open trenching shall be restricted to the area from 5 feet beyond the shoulder to the right of way line except as modified in the Special Provision of the Permit.

IX. If at any time Cottonwood County, acting through its Board of Commissioners, shall deem it necessary to make any improvements or changes on all or any part of the right of way of the county highway which affect a utility located on county highway right of way, then and in such event, the owner of the utility shall within 15 days after written notice from the Board of Commissioners, or its authorized agent, proceed to alter, change, vacate or remove said utility from the county highway right of way so as to conform to said county highway changes and as directed by the Board of County Commissioners. Such work shall be done without any cost whatsoever to Cottonwood County and shall be completed within the date specified in said written notice. The Utility shall assume all liability and save Cottonwood County harmless from any and all claims of damage of any nature whatsoever occasioned by reason of not having removed said utility within the time specified in said notice.

II. When pipes with bells or flanges are installed, the crossings of the roadbeds of the county highway shall be made by boring inside a conduit as provided in paragraph I of this section or jacking a conduit of sufficient diameter to permit threading the carrier pipe through it.

III. All voids caused by jacking or boring shall be filled by pressure grouting. The grout material shall consist of a sand-cement slurry of at least two sacks of cement per cubic yard and a minimum of water to assure satisfactory placement.

IV. The underground utilities shall be so installed as virtually to preclude any necessity for disturbing the roadbeds to perform maintenance operations.

V. Underground installations shall be accomplished without damaging or destroying the root structure of specimen trees.

LOCATION SKETCH

Show location of proposed facility in relation to the center line of the highway and pertinent features such as right of way line, shoulder line, curb line and edge of surfacing. The facility should also be referenced to adjacent land lines.

COTTONWOOD COUNTY
DEPARTMENT OF
HIGHWAYS

UTILITY PERMIT

Reference: Project _____
C.S.A.H _____
C.R. _____

In accordance with the application herein, a Utility Permit is granted to _____ _____to place, construct and thereafter maintain _____ _____on or across, or under the right of way of County Highway No._____in the location shown on the sketch which is a part of said application, or in such location as may be specified by the Department of Highways in the Special Provisions hereof.

SPECIAL PROVISIONS:

1. Traffic Control is the Responsibility of the contractor or utility company.

2. Reshape all disturbed areas.

3. Reseed all disturbed areas.

Utility Fee Schedule

Underground Construction > 6" Dia.	$800.00	Per mile
Underground or Overhead Construction of utilities 6" or less dia.	$200.00	Per mile
Boring or tunneling under roadway	$100.00	Each
Open cut crossing - gravel roads only	$500.00	Each
Manure pipes	$50.00	Each permit
Above ground and Underground Min. processing fee	$50.00	Permit
Utility Construction w/o Permit	$1,000.00	And removal
Any ROW Permit	$150.00	Minimum

Total charge for this Permit $_____

Approved_____
(date)
Board of County Commissioners
Cottonwood County, Minnesota

By: _____
County Highway Engineer

Permit No. _____
Certified Check No. _____
Surety Bond No. _____
Date of S. Bond or Check _____
Deposit made by _____
_____

COPIES:

Return to: Highway.Permits@co.cottonwood.mn.us
Cottonwood County Public Works Department
1355 9th Ave
Windom, MN 56101

PH: (507) 832-8819
F: (507) 831-2367

THIS PERMIT IS VALID FOR ONE YEAR FROM APPROVAL.

CITY of CRYSTAL

4141 Douglas Dr. N. Crystal, MN 55422
Phone: 763- 531-1000 Fax: 763- 531-1188
Website: www.crystalmn.gov

Application for Public Works Right-of-Way Permit

Date _____ Permit No. _____

Site Address	
Property Owner	Name _____ Phone No. Email

Applicant is: *(check one)* Property Owner ____ Utility / Facilities Owner ____ Contractor ____

Utility/Facilities Owner	Name/Company _____ Phone No. _____ Local Representative _____ Email _____ Address _____ City State Zip
Contractor	Company _____ Phone No. _____ Contact Person _____ Phone No. _____ Email _____ Address _____ City State Zip

Note: Description of work, detailed drawing and site plan with dimensions must accompany this application.

Right of Way Work-Type:	☐ - New	☐ - Remove/Install	☐ - Repair
Right of Way Sub Type:	☐ - Street Excavation	☐ - Curb Cut	☐ - Blvd Excavation
	☐ - Overhead	☐ - Underground	☐ - Road Closure
	☐ - Small Wireless Facility	☐ - Obstruction	☐ - Planting

Brief description of work: _____

Project Start Date: _____ Estimated Completion Date: _____

The undersigned hereby represents upon all of the penalties of the law, for the purpose of including the City of Crystal to take the action herein requested, that all statements are true, and that all work herein will be done in accordance with the ordinances of the City of Crystal and the State of Minnesota.

_____/_____
Applicant's Signature/Date

Office Use Only:	**Office Use Only:**	
Additional Requirements: ☐ - Performance Bond $ _____	Permit Fee	$_____
☐ - Certificate of Insurance	First 500 Linear Feet	$_____
Required Inspections: ☐ - Final ☐ - Completion Certificate	Over 500 Linear Feet	$_____
	Other Fees _____	$_____
Permit Expiration Date: _____	Total Fees	$_____

Permit Approved By: _____ Date Approved: _____

CITY of CRYSTAL

4141 Douglas Drive North • Crystal, Minnesota 55422-1696

Tel: (763) 531-1000 • Fax: (763) 531-1188 • www.crystalmn.gov

1/1/2019

GENERAL REQUIREMENTS AND SPECIAL PROVISIONS FOR PUBLIC WORKS RIGHT-OF-WAY PERMIT

1. **Compliance with other laws** - Obtaining a right-of-way permit does not relieve permittee of its duty to obtain all other necessary permits, licenses, and authority and to pay all fees required by the city or other applicable rule, law or regulation. A permittee shall comply with all requirements of local, state and federal laws, including Minnesota Statutes, section 216D.01-.09 ("one call excavation notice system"). A permittee shall perform all work in conformance with all applicable codes and established rules and regulations, and is responsible for all work done in the right-of-way pursuant to its permit, regardless of who does the work.

   A permit as issued does not in any way imply an easement on private property or grant a right to encroach on private property or grant permission to occupy or perform any work within the rights-of-way of any other agency or jurisdiction

2. **Permit on Job** - Permits or copies shall be kept on the work site, while work is in progress, in the custody of the individual in charge and shall be exhibited upon request by any City official.

3. **Execution** - The Permittee shall use due diligence in the execution of the work authorized under this permit in order not endanger or unnecessarily obstruct travel along the said roadway. Operations shall be so conducted at all times as to permit safe and free travel over the roads within the limits of the work. All safety measures for the free movement of pedestrian and vehicular traffic shall be provided by the permittee at its own cost.

   Permittee shall give a minimum of 2 days advance notice to all adjacent properties to the route of construction prior to beginning of any work.

   Contact Mick Cyert at (763) 531-1161 or via email at mick.cyert@crystalmn.gov at least 2 business days prior to the beginning of any work

4. **Provisions and Specifications** - These general requirements and specifications shall be considered as forming an integral part of each and every permit issued for operations on City roadways. The work authorized by this permit shall be done at such time and in such manner to be consistent with the safety of the public and shall conform to all requirements and standards of the City of Crystal as herein specified. If at any time it shall be found by the City of Crystal that the work is not being done or has not been properly performed, the Permittee, upon being notified shall immediately take the necessary steps, at their own expense to place the work in conformance to said required standard.

5. **Barricades and Traffic Control** - All traffic warning devices and barricades shall conform to the Minnesota Manual on Uniform Traffic Control Devices (MMUTCD), and the MnDOT Temporary Traffic Control Zone Layouts Field Manual, current editions and any and all updates or supplements thereto.

   Excavations shall be protected by a suitable barricade, guard, or fence sufficient to prevent persons or animals from entering the excavation.

   All traffic warning devices, barricades, flag persons and equipment shall be provided by the parties or organizations performing the work. Said devices shall be removed from the job site promptly upon completion of the work.

   OHSA - appropriate safety vests shall be worn be *ANYONE* occupying City right-of-way.

6. **Erosion Control** - Erosion control shall be performed in accordance with the provisions of Mn/DOT 1717.2 except as modified below:

   A. Street Cleaning: Soil tracked or dropped onto existing area and surrounding paved areas shall be swept daily with a pick-up sweeper at the Permittee own expense.

   B. Storm Sewer Inlet Protection – The Permittee shall install and maintain inlet protection devices on all storm sewer inlets impacted by construction. The devise used shall be WIMCO Model #CG23 inlet device or approved equal.

   The Permittee is advised to refer to "Protecting Water Quality in Urban Areas – Best Management Practices for Minnesota" and be found at:

   https://www.pca.state.mn.us/water/stormwater-best-management-practices-manual

7. **Damage to Roadway** - If pavement, roadway or right-of-way is disturbed or damaged, same shall be restored in a timely manner to its original or a better condition at the sole expense of the Permittee. Permittee's failure to correct such damage in a timely manor will result in the City of Crystal, through its own forces or contractors, making repairs and billing the Permittee for all costs and expenses related thereto. Permittee agrees if it fails to make payment of said amount, it shall pay all costs relating to debt collection.

8. **Americans with Disabilities Act –** Any work in the City rights-of-way that impacts any pedestrian facilities requires that the restoration of the pedestrian facilities impacted be restored to conform to the current ADA requirements and standards.

9. **Clean up and Restoration** – The work to be done under a right-of-way permit involving excavation, including the patching and restoration of the right-of-way as required herein, must be undertaken and completed promptly but in no case later than the dates specified in the permit,

Street surfaces and roadside shall be kept, neat and presentable throughout construction as determined by the City of Crystal.

The Permittee shall remove at own expense all temporary structures, rubbish, excess and waste materials, equipment, etc. from the site of the work authorized by this permit on a routine basis.

All surfaces disturbed or damaged by Permittee operations due to the performance of the work authorized by this permit shall be restored, at Permittee's expense, in accordance with the following requirements.

A. When sod or turf is disturbed by any operation of the permittee, such sod or turf shall be removed and replaced with new sod meeting the requirements of Mn/DOT 3878. New sod shall be placed on not less than 6-inches of topsoil. The sod shall be placed and maintained in accordance with Mn/DOT 2575. The permittee shall maintain and water the sod for 30 calendar days. The City will then makes final inspection and consider acceptance of the sod.

B. Where the City Engineer determines that seeding is warranted, such areas shall be restored in accordance with Mn/DOT 2575 with not less than 6-inches of topsoil and hydro-seeded with Seed Mixture 25-151 in accordance with Mn/DOT 3876, for hydro-seed operations. The determination to seed or sod shall be solely at the discretion of the City Engineer.

C. Wherever bituminous surfaces are disturbed by excavation, trenching or by any operations of the Permittee, such waste materials and debris shall be disposed of outside of the City in accordance with the provisions of Mn/DOT 2104. Bituminous patches shall be straight line saw cut and squared up and shall be constructed in accordance with the provisions of Mn/DOT 2211 and Mn/DOT 2360 to substantially the same thickness or better as found of Class 5 aggregate base and Mn/DOT wearing course bituminous material. Bituminous material shall be placed on a compacted subgrade as approved by the City Engineer and in equal lifts with each lift shall not to exceed 2-inches in thickness.

D. Concrete walks, driveways or curb and gutters that are disturbed or damaged by any operations of the Permittee shall be removed and replaced in accordance with the provisions of Mn/DOT 2104, Mn/DOT 2521 and Mn/DOT 2531. Concrete walks shall be constructed to a 4-inch thickness and concrete driveways shall be 7-inches.

   Concrete Mix for sidewalks, driveways and curb and gutter shall be Mn/DOT Mixture 3F52

10. **Quality of Work** - Finished surface, base and sub-base of the road upon completion of the work shall be equal to or better than specifications for the original road. No pavement debris or any other debris shall be left buried in the backfill of any trench or excavation.

11. **Notice of Completion** - When the work under any permit hereunder is completed, the Permittee shall furnish a completion certificate in accordance with Minnesota Rules, part 7819.1300 and forms provided.

12. **Site Inspection.** Permittee shall make the work-site available to the City and to all others as authorized by law for inspection at all reasonable times during the execution of and upon completion of the work.

13. **Guaranty** – It shall be understood that the Permittee will be responsible for maintenance or repair of any and all failures due to workmanship, materials, settlement, erosion, and lack of vegetation growth, rutting or other job related problems for a 12 - month period following completion. During this 12-month period the Permittee, upon notification from the City, correct all restoration work to the extent necessary, using the method required by the City. Work shall be completed within 30 calendar days of the receipt of the notice from the City. Permittee shall be responsible for all costs and expenses related to said maintenance or repair.

    If the Permittee fails to restore the right-of-way in the manner and to the condition required by the City, or fails to satisfactorily and timely complete all restoration required by the City, the City at its option may do such work. In that event the Permittee shall pay to the city, within 30 days of billing, the cost of restoring the right-of-way. If permittee fails to pay as required, the city may exercise its rights under any existing construction performance bond.

14. **Annulment** - In the event of failure or neglect, will or not, by the Permittee to comply with the prescribed conditions, restrictions and regulations, the City may revoke and annul this permit and order said Permittee to immediately remove any and all property belonging to the Permittee from the legal limits of the roadway or City property

CITY of CRYSTAL

4141 Douglas Drive North • Crystal, Minnesota 55422-1696

Tel: (763) 531-1000 • Fax: (763) 531-1188 • www.crystalmn.gov

Certificate of Final Completion
For
Public Works Right-of-Way Permit

Please Print

Permit No._____ Date of Issue_____20_____

Site Address _____

Utility/Facilities Owner _____

Contractor/Installer_____

Contact Person _____ Phone Number_____

Design Professional _____ Phone Number_____

Begin Construction Date _____ Final Completion Date_____

Description of Work _____

Permittee's Certification

I, the permittee, _____ herby certify that all work as authorized under this permit has been performed in conformance with all applicable codes, established rules and regulations and general requirements, specifications and construction standards of the City of Crystal and is ready for final inspection.

Permittee _____ Date_____ Email_____
(Authorized signature)

Company _____ Phone No._____

Complete this form and email to Engineering Project Manager, Mick Cyert at mick.cyert@crystalmn.gov

COUNTY OF **Dodge**
DEPARTMENT OF HIGHWAYS

APPLICATION FOR UTILITY PERMIT on COUNTY HIGHWAY RIGHT OF WAY

Board of County Commissioners
Mantorville , Minnesota
Attn: County Highway Engineer

C.S.A.H. _____
C. R. _____

Application is hereby made for permission to place, construct and thereafter maintain a _____ _____ along or across County Highway No. _____ from _____ _____ to _____ _____ feet from center line on the _____ (east, west, north or south) side of the county highway in accordance with the sketch shown on the inside hereof, or attached thereto.

I. AERIAL CONSTRUCTION

- ☐ Single pole
- ☐ H-Frame
- ☐ Single pole and H-Frame
- ☐ Steel tower
- ☐ Other _____
- ☐ Open wire
- ☐ Cable
- ☐ Vertical
- ☐ Cross-arm
- ☐ Vertical and cross-arm

VOLTAGE	NUMBER OF CONDUCTORS	SIZE OFCONDUCTORS

Minimum height of conductor _____ ft. along highway _____ ft. at crossing over highway

EXTENT AND LOCATION OF TREE TRIMMING AND/OR CLEARING

II. UNDERGROUND CONSTRUCTION

CONDUIT

- ☐ Multiple tile
- ☐ Transite
- ☐ Clay tile
- ☐ Sectional concrete
- ☐ Steel pipe
- ☐ Other _____

CASING

☐ Steel pipe ☐ Sectional concrete ☐ Other _____

SIZE	DEPTH

VOLTAGE	NUMBER OF CONDUCTORS	SIZE OF CONDUCTORS

METHOD OF INSTALLING UNDER ROADBEDS (if open trench, explain why necessary)

☐ Open trench _____

☐ Jacking ☐ Boring ☐ Pheuma Gopher

EXTENT AND LOCATION OF TREE CLEARING	New Facility	Replacement Facility
NONE	☐	☐

III. Work to start on or after _____ and to be completed on or before _____

IV. The applicant in carrying on any and all of the work herein above mentioned or referred to in its application and in the Permit issued herefore, shall strictly conform to the terms of such Permit, and the regulations of the Board of County Commissioners, as set forth herein together with the Special Provisions, all of which are made a part hereof. The applicant specifically agrees to be bound hereby. The applicant shall also comply with the regulations of all other governmental agencies for the protection of the public. The work shall be accomplished in a manner that will not be detrimental to the highway and that will safeguard the public.

Dated this _____ day of _____ , 20____ _____
Name of Company making application

Signature _____ By _____
Title

Address _____

Phone Number _____ Fax Number _____

Rules and Regulations of Board of County Commissioners for Utilities on County Highways

DEFINITIONS

Utility. Under this order "utility" shall mean and include all privately, publicly or co-operatively owned communication lines and facilities, any systems, lines and facilities for the distribution and transmission of electrical energy, oil, gas, water, sewer, steam and other pipe lines, railways, ditches, flumes or other structures which under the laws of this State or the ordinance of any town or city may be constructed, placed or maintained across, along or on county highway right of way. Dependent upon the meaning intended in the context, "Utility" shall also mean the utility company, inclusive of any wholly owned subsidiary.

GENERAL

I. Except as otherwise permitted utility construction and relocation on county highway right of way shall not be commenced until an application for a Permit has been made and such Permit granted. The Permit sketch shall show the location of the proposed utility with reference to county highway center line. A copy of the sketch shall be provided for each copy of such Permit.

II. Burning or disking operations and/or the use of chemicals to control or kill trees, brush and other vegetation is prohibited without prior approval from the County Highway Engineer.

III. All waterways and lines of drainage shall remain operative.

IV. Wherever topsoil and sod are disturbed they shall be replaced and maintained satisfactorily until the turf is established.

V. The utility facility and installation shall not interfere with any existing utility facilities on the county highway right of way.

VI. When necessary, barricades, warning devices and flagmen shall be provided by the Utility during all phases of their construction and maintenance operations on county highway right of way.

VII. Work zone safety measures shall follow the Minnesota Manual on Uniform Traffic Control Devices (MMUTCI) any time work is being performed within the county Right of Way.

VIII. At the time of construction of the utility and at the times of subsequent maintenance, prior approval shall be obtained from the County Highway Engineer for the cutting and trimming of trees within the county highway right of way. Wherever trees are cut the resulting stumps shall be removed unless otherwise provided in the Special Provisions of the Permit. Any holes caused by stump removal shall be backfilled, the area leveled and all materials associated therewith disposed of outside the county highway right of way. The utility shall advise the County Highway Engineer at least 48 hours in advance of its intent to start clearing and grubbing operations so that proper supervision can be provided.

IX.. The Utility shall notify the County Highway Engineer of its intent to perform service and maintenance operations, which will interfere with the flow of traffic on county highways, and shall obtain his approval prior to performing such operations. However the Company may perform service and maintenance operations on county highways including opening and disturbing the surface of the right of way without prior approval in those instances where an emergency exists that is dangerous to the life or safety of the public and which requires immediate repair. The Utility shall take all necessary and reasonable safety measures to protect the traveling public and shall notify the County Highway Engineer at the earliest possible moment.

X. If at any time **Dodge** County, acting through its Board of County Commissioners, shall deem it necessary to make any improvements or changes on all or any part of the right of way of the county highway which affect a utility located on county highway right of way, then and in such event, the owner of the utility shall within 15 days after written notice from the Board of County Commissioners, or its authorized agent, proceed to alter, change, vacate or remove said utility from the county highway right of way so as to conform to said county highway changes and as directed by the Board of County Commissioners. Such work shall be done without any cost whatsoever to **Dodge** County and shall be completed within the date specified in said written notice. The Utility shall assume all liability and save **Dodge** County harmless from any and all claims of damage of any nature whatsoever occasioned by reason of not having removed said utility within the time specified in said notice.

XI. The Utility shall assume all liability for, and save the County, its agents and employees, harmless from, any and all claims for damages, actions or causes of action arising out of the work to be done herein and the continuing uses by the Utility, including but not limited to the placing, constructing, reconstructing, maintaining and using of said utility under this application and Permit.

XII. The Board of County Commissioners may require the Utility, or its contractor, to furnish a deposit in the form of a certified check, a surety bond or corporate undertaking, in favor of the Board of County Commissioners of **Dodge** County, for any expense incurred by the County in the repairing of damage to any portion of the county highway right of way caused by work performed under a Permit, including any out of the ordinary engineering supervision and inspection expense provided by the county. In those instances wherein a deposit is required, the amount of the deposit shall be specified in the Special Provisions of the Permit. If a check is furnished, any monies remaining over and above such expense shall be returned to the applicant.

XIII. The Permit as issued does not in any way imply an easement on private property.

XIV. The installations shall be made in conformity with all applicable laws, regulations and codes covering said installations. All installations shall be made in conformity with regulations of governmental agencies for the protection of the public.

XV. Upon completion of an installation, the Utility shall restore the county highway right of way to its original condition. The Utility shall then notify the office of the County Highway Engineer of the completion of the work so that inspection can be made to determine its acceptability.

AERIAL

I. There shall be only a single pole line on the county highway right of way on either side of the center line thereof.

II. Longitudinal installations on county highways shall normally be located in the outer five feet of the right of way. At crossing of the county highway, poles shall be placed at a minimum of thirty feet from the shoulder lines of the through roadbeds unless right of way widths are prohibitive to such location.

III. The location of all brace poles, anchors and anchor poles within the limits of the county highway right of way shall be approved by the County Highway Engineer.

IV. In those instances in which a Utility is issued a Permit or Permits for construction on both sides of the county highway right of way in a given area, such Permit is conditioned upon the Utility subsequently providing joint use to other Utilities upon reasonable terms mutually agreeable to the Utilities.

UNDERGROUND

I. All crossings of the roadbeds of the county highways shall be made by boring inside a casing or carrier pipe, or by jacking, unless this procedure is modified in the Special Provisions of the Permit. The auger shall not lead the casing or carrier pipe by more than one inch. Open trenching shall be restricted to the area from 5 feet beyond the shoulder to the right of way line except as modified in the Special Provisions of the Permit.

II. When pipes with bells or flanges are installed, the crossings of the roadbeds of the county highway shall be made by boring inside a conduit as provided in paragraph I of this section or jacking a conduit of sufficient diameter to permit threading the carrier pipe through it.

III. All voids caused by jacking or boring shall be filled by pressure grouting. The grout material shall consist of a sand-cement slurry of at least two sacks of cement per cubic yard and a minimum of water to assure satisfactory placement.

IV. The underground utilities shall be so installed as virtually to preclude any necessity for disturbing the roadbeds to perform maintenance operations.

V. Underground installations shall be accomplished without damaging or destroying the principal root structure of specimen trees.

LOCATION SKETCH

Show location of proposed facility in relation to the center line of the county highway and other pertinent features such as right of way line, shoulder line, curb line and edge of surfacing. The facility should also be referenced to adjacent land lines.

Dodge COUNTY

DEPARTMENT OF HIGHWAYS

Utility Permit

Reference: Project _____
C.S.A.H. _____
C.R. _____

In accordance with the application herein, a Utility Permit is granted to _____ _____ to place, construct and thereafter maintain _____ _____ on or across, or under the right of way of County Highway No. _____ in the location shown on the sketch which is a part of said application, or in such location as may be specified by the Department of Highways in the Special Provisions hereof.

SPECIAL PROVISIONS:

All disturbed areas shall be restored to original condition which shall include removal of excess material and establishment of grasses. The vegetation shall be maintained until established to the satisfaction of the County Engineer.

All disturbed tile lines shall be restored to the satisfaction of the property owner and/or County Engineer.

Installation of buried utility shall maintain a consistent distance from centerline and must be within 2 feet of that indicated on this permit.

Elevation of installed utility shall be consistent and shall not rise when passing over drives or entrances. Installing deeper is permitted.

Posts, poles, pedestals, and other above ground utility structures under 5 feet tall shall be marked with a highly visible pole and/or flag no less than 5 feet tall.

Approved _____
(date)
Board of County Commissioners
_____ , Minnesota

By _____
County Highway Engineer

Permit No. _____
Certified Check No. _____
Surety Bond No. _____
Date of S. Bond or C. Check _____
Bank or Bonding Co. _____
Deposit Made by _____

Application for Utility/ ROW Permit

Hennepin County
Hennepin County Public Works
Transportation Department (Roads and Bridges) - Operations
1600 Prairie Drive
Medina, MN 55340-5421

Permit#: **2019-U0535**
Status: Active
Road: 110
City/Twp: Minnetrista
Maintenance District: South

PROJECTS NORTH OF HIGHWAY 55
Jacob Cardinal (612-328-1622) 24 hours before starting work

PROJECTS SOUTH OF HIGHWAY 55
Kurt Weber (612-221-9388) 24 hours before starting work

Email

Construction Dates

Start: 06/10/2019 **End:** 12/31/2019

Underground

Conduit/casing type:	PVC / Other Plastic
Underground type:	Service
Method of installation:	Open Trench
Depth:	36"

Payment method

credit card / electronic check

Payment details

Routine Fee	$330.00
Total:	$330.00

Construction Description

REPAIR GAS SERVICE TO 5800 PAINTER RD
MGC# 19-2582
WO# 90393738
IF QUESTIONS CALL DAVE OLSON 612-849-9832

Site(s)

Road	From	To	Relative to Road
110	PAINTER RD	COUNTY RD 110	West

henncty-5800painterrd-0605.pdf

Special provisions:

- Approved subject to the following conditions:

  1) Contact Kurt Weber at (612) 221-9388 or via email at Kurtis.Weber@hennepin.us at least 24 hours prior to construction. Failure to contact the south inspector or the Permits Office shall be considered a violation of the permit and grounds for dismissing contractor from the job site.

  2) Applicant shall maintain safe conditions for pedestrians at all times during installation

  3) If all work under this permit is completed, click the green flag icon in Permit view to change the status to 'Ready for Inspection'.

  4) Temporary traffic control layouts on County roads shall conform to the most recent version of the Minnesota Manual on Uniform Traffic Control Devices.

  5) Notify Roy Doran at 612-596-0293 a minimum of 48 hours prior to any work involving a Hennepin County traffic signal, including prior to the milling of a road surface that may contain loop detectors. There may be additional charges invoiced to you for work completed by the Hennepin County Signal Shop.

6) Requests for Saturday work must submitted by email to michael.olmstead@hennepin.us and received by Thursday at noon. For all other off hour requests, please contact the individual inspector mentioned above in #1.

- This roadway was resurfaced within the last 5 years. Therefore no excavations will be allowed in the paved surface.

Notes:

No notes

Approval	Digital Signature
Applicant	Jody M. Cox - 06/05/2019 11:34 AM 2cdf2553ed2e4056053c9eb592959eb4 6618bfd0c2ff03496c6d1739ff71c580
#1 Permits Inspector	Kurt Weber - 06/06/2019 7:19 AM c2ef75d41e988f9b0bbae7b7f63c1e18 788c9da6251c12b025d7b4a2bee3d910
#2 Permits Supervisor	Michael D. Olmstead - 06/10/2019 1:03 PM 316eb80c1ce915eead0f9ceb4494d223 4185fb7d0b7b86ae445f8110b1e05674

Definitions

- UTILITY. Under this order "Utility" shall mean and include all privately, publicly or co-operatively owned communication lines and facilities, any systems, lines and facilities for the distribution and transmission of electrical energy, oil, gas, water, sewer, steam and other pipe lines, railways, ditches or other structures which under the laws of this State or the Ordinance of any County or City may be constructed, placed or maintained across, along or on County Highway Right-of-Way. Dependent upon the meaning intended in the context, "utility" shall also mean the Utility Company, inclusive of any wholly owned subsidiary.

General

- -Except as otherwise permitted, utility construction and relocation on County Highway Right-of-Way shall not be commenced until an application for a Permit has been made and such Permit granted. The Permit submittal shall include detailed construction plans that show the location of the proposed utility with reference to County Highway Centerline.
  -Each registrant shall, at the time of registration and by January 1 of each year, file a construction and major maintenance plan for all work within the county right-of-way for the upcoming year with the Permit Office. Such plan shall be submitted using a format designated by the Permit Office and shall contain the information necessary to facilitate coordination and reduction in the frequency of excavations and obstructions of right-of-way. The registrant shall map electronically upcoming major projects onto the county's established mapping application (Utility Infrastructure Integration, UI2).
  -Inclement weather shall be reason for delay of the project start or suspension of the project as determined by Hennepin County.

-Safety vests shall be worn by ANYONE occupying County right-of-way.
-Permit on Job: Permits or copies shall be kept on the work site, while work is in progress, in the custody of the individual in charge, and shall be exhibited upon request by any county official.
-Provisions and Specifications: These general permit requirements and specifications shall be considered as forming an integral part of each and every permit issued for operations on county roadways. The work authorized by this permit shall be done at such time and in such manner as shall be consistent with the safety of the public and shall conform to all requirements and standards of the County of Hennepin as herein specified. If at any time Hennepin County finds that the work is not being, or has not been, properly performed, the Permittee, upon being notified, shall immediately take the necessary steps, at their own expense, to place the work in conformance to said requirements or standards.
-Annulment: In the event of failure or neglect by said Permittee or Permittee's employees, to perform and comply with the prescribed conditions, restrictions and regulations, the Transportation Department may revoke and annul this permit and order said Permittee to immediately remove any and all structures or property belonging to said Permittee from the legal limits of the roadway or county property.
-Private Property: The Permit as issued does not in any way imply an easement on private property or grant a right to encroach on private property.
-Driving Limitations: No driving onto highway from ditch or driving on shoulders or over curbs where damage will occur.
-Lugs on Equipment: No lugs shall be used on equipment traversing Hennepin County roadways.
-Insurance: The Permittee shall have in force during the operation of Permittee's vehicles and equipment over and/or adjacent to Minnesota roadways, (1) Commercial General Liability Insurance with each occurrence of $1,500,000 and general aggregate limits of $2,000,000, and (2) Automobile Liability Insurance with combined single limit each occurrence coverage for bodily injury and property damage limits of $1,500,000. These are minimum insurance requirements. It is the sole responsibility of the Permittee to determine the need for and to procure additional insurance which may be needed in connection with this Permit. If requested, a Certificate of Insurance must be provided naming Hennepin County as certificate holder and as an additional insured for the Commercial General Liability coverage with respect to operations covered under this Permit.
-Indemnification: The Applicant shall, to the extent permitted by law, defend, indemnify and hold harmless the County, it's employees, officers, agents, and contractors against any claim of liability or against any loss of any kind, including compliance with administrative orders and regulations, and specifically including, without limitation, against any claim of liability or loss from personal injury or property damage resulting from or arising out of the presence of the Applicant's equipment or other personal property on County managed public right-of-way or on County property placed within the right-of-way that is in any way related to or as part of an attachment to County owned infrastructure and also as to any willful misconduct of the Applicant, it's employees, contractors or agents, except to the extent such claims or damages may be due to or caused by the willful misconduct of the County, or it's employees, contractors, or agents.
-Liability Waiver: The Applicant waives any liability of the County, or any of its respective agents, representatives, successors or employees for any lost revenue, lost profits, loss of technology, use of rights or services, incidental, punitive, indirect, special or consequential damages, loss of data, or interruption or loss of use of services, even if the County has been advised of the possibility of such damages, whether under theory of contract, tort (including negligence), strict liability or otherwise

that is related to, arises out of, or is in some part, caused by Applicant's attachment to or use of County owned infrastructure or county managed public right-of-way.

- TRAFFIC CONTROL:
  -All warning devices and barricades shall conform to the Minnesota Manual on Uniform Traffic Control Devices, current edition, and any and all updates or supplements thereto.
  -All warning devices, barricades, flagmen and equipment shall be provided by parties or organizations performing the work. Said devices shall be removed from the job site promptly upon completion of work.
  -Standard warning devices and barricades and safety vests shall be kept clean and in good repair at all times.
  -Detour on a County roadway requires ten (10) working days advance notice to the Permit Office.
  -Execution: The Permittee shall use due diligence in the execution of the work authorized under this permit in order not to endanger or unnecessarily obstruct travel along the said highway. Operations shall be so conducted at all times as to permit safe and reasonably free travel over the roads within the limits of the work herein prescribed. All safety measures for the free movement of traffic shall be provided by the Permittee at its own cost.
- GENERAL CONSTRUCTION
  -Conformity to Laws: The installation shall be made in conformity with all applicable laws, regulations and codes covering said installations. All installations shall be made inconformity with regulations of governmental agencies for the protection of the public.
  -Americans with Disabilities Act: Any work in the County's rights-of-way that impacts any pedestrian facilities requires that the restoration of the pedestrian facilities impacted be restored to conform to current ADA requirements and standards.
  -Removal: If at any time the permitted structure or facility shall fail from any cause whatsoever, the Permittee shall have the same removed or repaired immediately upon receipt of written notice to do so.
  -Existing Facilities: Applicant must protect all existing installations.
  -Cutting Trees: The permission herein granted does not confer upon the Permittee the right to cut, remove or destroy trees or shrubbery within the legal limits of the roadway or relieve Permittee from obtaining any consent otherwise required from the owner of the property adjacent thereto.
  -Drainage: The existing drainage patterns shall not be altered unless approved by Hennepin County. Watershed District approval and drainage calculations are required if plan alters existing drainage patterns.
  -Clean-Up: Street surface and roadside shall be kept clean, neat and presentable throughout construction as determined by the Hennepin County Transportation Department.
  -Dust control shall be provided upon request of the Hennepin County Transportation Department at the Permittee's expense.
  -Trees and Vegetation: Burning or disking operations and or the use of chemicals to control or kill trees, brush and other vegetation is prohibited without Hennepin County approval.
- RESTORATION
  -Damage to Roadway- If pavement, roadway or right-of-way is damaged; same shall be restored, in a timely manner to its original or a better condition, at the sole expense of the Permittee.
  -The Permittee will be responsible for maintenance or repair of any and all failures due to settlement, erosion, lack of vegetation growth, rutting or other job related problems for a period of two (2) years after project completion and Notice of Work Completion form has been received by Hennepin County. Permittee shall perform all said maintenance immediately after it has been

notified of deficiencies. Permittee shall be responsible for all costs and expenses related to said maintenance.
-Permittee's failure to perform maintenance or repair of any failures and/or damage to roadway or right-of-way immediately will result in Hennepin County, through its own forces or its contractors, performing said maintenance or repairs and billing Permittee for all costs and expenses related thereto. Permittee shall make payment to Hennepin County within fifteen (15) days of receipt of said bill. Permittee agrees, that if it fails to make payment of said amounts within the specified time, to Hennepin County, Permittee shall pay all costs related to debt collections, including, but not limited to, court costs, fees, interest and attorneys' fees.
-Permanent restoration plans must be submitted to the County's Permit Office prior to starting construction for temporary restoration/winter stabilization work occurring between November 1st and April 30th.
-Quality of Work: Finished surface, base and sub-base of road upon completion of work shall be equal to or better than specifications for original road.

Underground

- -Excavations shall be cribbed, sheeted and/or fenced when necessary, or as required by Hennepin County.
  -Boring or Jacking: Installation of pipe under roadways and driveways, shall be jacked or bored as designated by the Hennepin County Transportation Department. No road or driveway, including field accesses, may be crossed with a vibratory plow.
  -Casing pipe shall be required for installations exceeding 4 inches in diameter under roadways.
  -All crossings under a Hennepin County Road shall be a minimum of 60" deep unless prior permission to cross at a shallower depth is received from Hennepin County.
  -Pressure grouting shall be required as designated by Hennepin County Transportation Department.
  -Manholes: All manhole covers, valve covers, etc. shall be placed one-quarter inch lower than finished grade.
  -The use of flow-able fill as a backfilling material must be approved by the Hennepin County Transportation Department.
  -Traffic will not be allowed over gravel up to grade or steel plates unless previously authorized by the Hennepin County Transportation Department.

APPLICATION FOR UTILITY PERMIT ON COUNTY HIGHWAY RIGHT OF WAY

Board of County Commissioners
Lincoln County, Minnesota
Attn: County Engineer

C.S.A.H. _____
C.R. _____

Application is hereby made for permission to place, construct, and thereafter maintain a _____ _____ along or across County Highway No. _____ from _____ to _____ feet from centerline on the _____ (east, west, north or south) side of the county highway in accordance with the sketch shown on the inside hereof, or attached thereto.

I. AERIAL CONSTRUCTION

- ☐ Single Pole
- ☐ H-Frame
- ☐ Single Pole & H-Frame
- ☐ Steel Tower
- ☐ Other _____
- ☐ Open Wire
- ☐ Cable
- ☐ Vertical
- ☐ Cross-arm
- ☐ Vertical & Cross Arm

Voltage	Number of Conductors	Size of Conductors

Minimum height of conductor: _____ ft. along highway _____ ft. at crossing over highway.

Extent and Location of Tree Trimming and/or clearing:

II. UNDERGROUND CONSTRUCTION

CONDUIT

- ☐ Multiple Tile
- ☐ Transite
- ☐ Clay Tile
- ☐ Sectional Concrete
- ☐ Steel Pipe
- ☐ Other _____

CASING

☐ Steel Pipe ☐ Sectional Concrete ☐ Other _____

Size	Depth

Voltage	Number of Conductors	Size of Conductors

METHOD OF INSTALLING UNDER ROADBEDS (if open trench, explain why necessary)

☐ Open Trench _____

☐ Jacking ☐ Boring ☐ Pneuma Gopher

Extent and Location of Tree Clearing	New Facility ☐	Replacement Facility ☐

III. Work to start on or after _____ and to be completed on or before _____

IV. The applicant in carrying on any and all of the work herein above mentioned or referred to in its application and in the permit issued herefore, shall strictly conform to the terms of such permit, and the regulations of the Board of County Commissioners, as set forth herein together with the special provisions, all of which are made a part hereof. The applicant specifically agrees to be bound hereby. The applicant shall also comply with the regulations of all other governmental agencies for the protection of the public. The work shall be accomplished in a manner that will not be detrimental to the highway and that will safeguard the public.

Dated this _____ day of _____, 2____.

_____
Name of company making application

Signature _____ By _____
Title

Address _____

Rules and Regulations of Board of County Commissioners for Utilities on County Highways

DEFINITIONS

Utility. Under this order "utility" shall mean and include all privately, publicly, or cooperatively owned communication lines and facilities, any systems, lines and facilities for the distribution and transmission of electrical energy, oil, gas, water, sewer, steam and other pipe lines, railways, ditches, flumes or other structures which under the law of this state or the ordinance of any town or city may be constructed, placed or maintained across, along or on county highway right of way. Dependent upon the meaning intended in the context, "Utility" shall also mean the utility company, inclusive or any wholly owned subsidiary.

GENERAL

I. Except as otherwise permitted, utility construction and relocation on county highway right of way shall not be commenced until an application for a permit has been made and such permit granted. The permit sketch shall show the location of the proposed utility with reference to county highway centerline. A copy of the sketch shall be provided for each copy of such permit.

II. Burning or disking operations and/or the use of chemicals to control or kill trees, brush and other vegetation is prohibited without prior approval from the County Engineer.

III. All waterways and lines of drainage shall remain operative.

IV. Wherever topsoil and sod are disturbed they shall be replaced and maintained satisfactorily until the turf is established.

V. The utility facility and installation shall not interfere with any existing utility facilities on the county highway right of way.

VI. When necessary, barricades, warning devices and flagmen shall be provided by the utility during all phases of their construction and maintenance operations on county highway right of way.

VII. At the time of construction of the utility and at the times of subsequent maintenance, prior approval shall be obtained from the County Engineer for the cutting and trimming of trees within the county highway right of way. Wherever trees are cut the resulting stumps shall be removed unless otherwise provided in the special provisions of the permit. Any holes caused by stump removal shall be backfilled, the area leveled and all materials associated therewith disposed of outside the county highway right of way. The utility shall advise the County Engineer at least 48 hours in advance of its intent to start clearing and grubbing operations so that proper supervision can be provided.

VIII. The utility shall notify the County Engineer of its intent to perform service and maintenance operations, which will interfere with the flow of traffic on county highways and shall obtain his approval prior to performing such operations. However, the company may perform service and maintenance operations on county highway including opening and disturbing the surface of the right of way without prior approval in those instances where an emergency exists that is dangerous to the life or safety of the public and which requires immediate repair. The utility shall take all necessary and reasonable safety measures to protect the traveling public and shall notify the County Engineer at the earliest possible moment.

IX. If at any time Lincoln County, acting through its Board of County Commissioners, shall deem it necessary to make any improvements or changes on all or any part of the right of way of the county highway which affect a utility located on county highway right of way, then and in such event, the owner of the utility shall within 15 days after written notice from the Board of County Commissioners, or it authorized agent, proceed to alter, change, vacate or remove said utility from the county highway right of way so as to conform to said county highway changes and as directed by the Board of County Commissioners. Such work shall be done without any cost whatsoever to Lincoln County and shall be completed within the date specified in said written notice. The utility shall assume all liability and save Lincoln County harmless from any and all claims of damage of any nature whatsoever occasioned by reason of not having removed said utility within the time specified in said notice.

X. The utility shall assume all liability for, and save the county, its agents and employees, harmless from any and all claims for damages, actions, or causes of action arising out of the work to be done herein and the continuing uses by the utility, including but not limited to the placing, constructing, reconstructing, maintaining, and using of said utility under this application and permit.

XI. The Board of County Commissioners may require the utility, or its contractor, to furnish a deposit in the form of a certified check, a surety bond or corporate undertaking, in favor of the Board of County Commissioners of Lincoln County, for any expense incurred by the county in the repairing of damage to any portion of the county highway right of way caused by work performed under a permit, including any out of the ordinary engineering supervision and inspection expense provided by the county. In those instances wherein a deposit is required, the amount of the deposit shall be specified in the special provisions of the permit. If a check is furnished, any monies remaining over and above such expense shall be returned to the applicant.

XII. The permit as issued does not in any way imply an easement on private property.

XIII. The installations shall be made in conformity with all applicable laws, regulations, and codes covering said installations. All installations shall be made in conformity with regulations of governmental agencies for the protection of the public.

XIV. Upon completion of any installation, the utility shall restore the county highway right of way to its original condition. The utility shall then notify the office of the County Engineer of the completion of the work so that inspection can be made to determine its acceptability.

AERIAL

I. There shall be only a single pole line on the county highway right of way on either side of the centerline thereof.

II. Longitudinal installations on county highways shall normally be located in the outer five feet of the right of way. At crossing of the county highway, poles shall be placed at a minimum of thirty feet from the shoulder lines of the through roadbeds unless right of way widths are prohibitive to such location.

III. The location of the brace poles, anchors and anchor poles within the limits of the county highway right of way shall be approved by the County Engineer.

IV. In those instances in which a utility is issued a permit or permits for construction on both sides of the county highway right of way in a given area, such permit is conditioned upon the utility subsequently providing joint use to other utilities upon reasonable terms mutually agreeable to the utilities.

UNDERGROUND

I. All crossings of the roadbeds of the county highways shall be made by boring inside a casing or carrier pipe, or by jacking, unless this procedure is modified in the special provisions of the permit. The auger shall not lead the casing or carrier pipe by more than one inch. Open trenching shall be restricted to the area from five feet beyond the shoulder to the right of way line except as modified in the special provisions of the permit.

II. When pipes with bells or flanges are installed, the crossings of the roadbeds of the county highway shall be made by boring inside a conduit as provided in paragraph I of this section or jacking a conduit of sufficient diameter to permit threading the carrier pipe through it.

III. All voids caused by jacking or boring shall be filled by pressure grouting. The grout material shall consist of a sand-cement slurry of at least two sacks of cement per cubic yard and a minimum of water to assure satisfactory placement.

IV. The underground utilities shall be so installed as virtually to preclude any necessity for disturbing the roadbeds to perform maintenance operations.

V. Underground installations shall be accomplished without damaging or destroying the principal root structure of specimen trees.

LOCATION SKETCH

Show location of proposed facility in relation to the centerline of the county highway and other pertinent features such as right of way line, shoulder line, curb line and edge of surfacing. The facility should also be referenced to adjacent landlines.

LINCOLN COUNTY
DEPARTMENT OF HIGHWAYS

Utility Permit

Reference: Project _____
C.S.A.H. _____
C.R. _____

In accordance with the application herein, a utility permit is granted to _____ _____ to place, construct, and thereafter maintain _____ _____ on or across, or under the right of way of County Highway No. _____ in the location shown on the sketch, which is, a part of said application, or in such location as may be specified by the Department of Highways in the special provisions hereof.

SPECIAL PROVISIONS:

Approved _____
(date)
Board of County Commissioners
Lincoln County, Minnesota

By _____
Department Representative

COPIES TO:

Permit No. _____
Check No. _____
Check Issuer _____
Surety Bond No. _____
Bond Expiration _____
Bonding Co. _____

Minneapolis
Public Works

Utility Connections
250 South 4th Street – Room 222
Minneapolis, MN 55415
Office 612-673-2451 TTY 612-673-2157
Email PwUtility.Connections@minneapolismn.gov
www.minneapolismn.gov/publicworks/permits

Utility Connections and Meter Set Permit Application

Job and Applicant Information

Job Address:	Work Type: ◯ Residential ◯ Commercial		
Job Description (Scope of work):			
Applicant Name (Business name if contractor):	◯ Contractor ◯ Property Owner		
Address:	City:	State: MN	ZIP Code:
Business Phone:	Email:		
Contact Name:	Contact Phone:		

Complete this section if not licensed under applicant's name.
Master Plumber Name: License #

Water Tap Permit (Complete the following section only if you need a Water Tap Permit)

Permit Type: ☐ Extension ☐ Repair ☐ Tap ☐ Cut	Estimated Feet:

New taps will require the creation of a customer billing account
Account Holder Name: Address:

Meter Set Permit (Complete the following section only if you need a Meter Set Permit)

◯ Established Metered Account ◯ New Construction

Type: ◯ Fire ◯ General Supply ◯ Combination	Water Service Line Size:

Sewer Tap Permit (Complete the following section only if you need a Sewer Tap Permit)

Permit Type: ☐ Extension ☐ Repair ☐ Tap ☐ Cut ☐ Warranty	Estimated Feet:
◯ Storm Pipe Material: Pipe Size:	◯ Sanitary Pipe Material: Pipe Size:

Utility Permit (Complete the following section only if you need a Utility Permit)

Type of Utility: ☐ Franchise ☐ Major Project ☐ Permit Fees .illed ☐ Paper Plans ☐ After Hours Work Planned

Type of Construction: ☐ Chamber ☐ Trench ☐ Hole ☐ Boring ☐ Conduit ☐ In Existing Conduit

Portion of Right of Way Being Used: ☐ Driving Lane ☐ Parking Lane ☐ Boulevard ☐ Sidewalk

Number of Construction Days:	Start Date:	End Date:	Estimated Feet:

Excavation Permit (Complete the following section only if you need an Excavation Permit)

Street Cut: ◯ New Permit ◯ Existing Permit	☐ Franchise ☐ Permit Fees Billed
Estimated Excavation Size: Length: Width:	

CERTIFICATION STATEMENT

☐ By checking this box, I hereby certify that: I am authorized to make this application; all information provided on this application or in other submittals is true and accurate to the best of my knowledge; authorization from the owner to perform the proposed work has been granted; all work performed as part of any permit will comply with all applicable state and municipal laws and ordinances, and any required contractor license, personal license, or certificate of competency will be obtained prior to any work being performed. I understand that the issuance of a permit does not grant any contractor license, certificate of competency, business license, or other license, and unlicensed persons shall not be hired to perform work that requires a license or certificate of competency.

Submit

Revised 06/07/2018

COUNTY OF NOBLES
DEPARTMENT OF HIGHWAYS

APPL ICAT ION FOR UT I L I TY PERMI T o n COUNTY HIGHWAY RIGHT OF WAY

P.O. Box 187, 960 Diagonal Road, Worthington, MN 56187 Phone: 507-295-5322, Fax: 507-372-8348

Board of County Commissioners
Nobles County, Minnesota
Attn: County Highway Engineer

C.S.A.H._____
C.R. _____

Application is hereby made for permission to place, construct and thereafter maintain a _____ _____ along or across County Highway No. _____

from _____ to _____

_____ feet from centerline on the _____ (east, west, north or south) side of the county highway in accordance with the sketch shown on the inside hereof, or attached thereto.

I. AERIAL CONSTRUCTION

☐ Single pole
☐ H-Frame
☐ Single pole and H-Frame
☐ Steel tower
☐ Other _____

☐ Open wire
☐ Cable
☐ Vertical
☐ Cross-arm
☐ Vertical and cross-arm

VOLTAGE	NUMBER OF CONDUCTORS	SIZE OF CONDUCTORS

Minimum height of conductor: _____ ft. along highway _____ ft. at crossing over highway

EXTENT AND LOCATION OF TREE TRIMMING AND /OR CLEARING _____

II. UNDERGROUND CONSTRUCTION

CONDUIT

☐ Multiple tile
☐ Transite
☐ Clay tile

☐ Sectional concrete
☐ Steel pipe
☐ Other _____

CASING

☐ Steel pipe ☐ Sectional concrete ☐ Other _____

SIZE _____ DEPTH _____

VOLTAGE _____ NUMBER OF CONDUTORS _____ SIZE OF CONDUCTORS _____

METHOD OF INSTALLING UNDER ROADBEDS (if open trench, explain why necessary)

☐ Open trench _____
☐ Jacking ☐ Boring ☐ Pneuma Gopher

EXTENT AND LOCATION OF TREE CLEARING _____ ☐ New Facility ☐ Replacement Facility

III. Work to start on or after _____ And to be completed on or before _____

IV. The applicant in carry on any and all of the work herein above mentioned or referred to in its application and in the Permit issued herefore, shall strictly conform to the terms of such Permit, and the regulations of the Board of County Commissioners, as set forth herein together with the Special Provisions, all of which are made a part hereof. The applicant specifically agrees to be bound hereby. The applicant shall also comply the regulations of all other governmental agencies for the protection of the public. The work shall be accomplished in a manner that will not be detrimental to the highway and that will safeguard the public.

Dated this ____ day of _____ , 20 _____

_____
Name of Company making application

Signature _____ By _____
Title

Address _____ Phone _____

DEFINITIONS

Utilities. Under this order "utility" shall mean and include all privately, publicly or co-operatively owned communication lines and facilities, any systems, lines and facilities for the distribution and transmission of electrical energy, oil, gas, water, sewer, steam and other pipe lines, railways, ditches, flumes or other structures which under the law of this State or the ordinance of any town or city may be constructed, placed or maintained across, along or on county highway right-of-way. Dependent upon the meaning intended in the context, "Utility" shall also mean the utility company, inclusive of any wholly owned subsidiary.

GENERAL

I. Except as otherwise permitted, utility construction and relocation on county highway right of way shall not be commenced until an application for a Permit has been made and such Permit is granted. The permit sketch shall show the location of the proposed utility with reference to county highway center line. A copy of the sketch shall be provided for each copy of such Permit.

II. Burning or disking operations and/or the use of chemicals to control or kill trees, brush and other vegetation is prohibited without prior approval from the County Highway Engineer.

III. All waterways and lines of drainage shall remain operative.

IV. Wherever topsoil and sod are disturbed they shall be replaced and maintained satisfactorily until the turf is established.

V. The utility facility and installation shall not interfere with any existing utility facilities on the county highway right of way.

VI. When necessary, barricades, warning devices and flagmen shall be provided by the Utility during all phases of their construction and maintenance operations on county right of way.

VII. At the time of construction of the utility and at the times of subsequent maintenance, prior approval shall be obtained from the County Highway Engineer for the cutting and trimming of trees within the county highway right of way. Wherever trees are cut the resulting stumps shall be removed unless otherwise provided in the Special Provisions of the Permit. Any holes caused by stump removal shall be backfilled, the area leveled and all materials associated therewith disposed of outside the county right of way. The utility shall advise the County Highway Engineer at least 48 hours in advance of its intent to start clearing and grubbing operations so that proper supervision can be provided.

VIII. The Utility shall notify the County Highway Engineer of its intent to perform service and maintenance operations, which will interfere with the flow of traffic on county highways, and shall obtain his approval prior to performing such operations. However, the Company may perform service and maintenance operations on county highways including opening and disturbing the surface of the right of way without prior approval in those instances where an emergency exists that is dangerous to the life or safety of the public and which requires immediate repair. The Utility shall take all necessary and reasonable safety measures to protect the traveling public and shall notify the County Highway Engineer at the earliest possible moment.

X. The Utility shall assume all liability for, and save the County, its agents and employees, harmless from, any and all claims for damages, actions or causes of action arising out of the work to be done herein and the continuing uses by the reconstructing, maintaining and using of said utility under this application and Permit.

XI. The Board of County Commissioners may require the Utility, or its contractor, to furnish a deposit in the form of a certified check, a surety bond or corporate undertaking, in favor of the Board of County Commissioners of NOBLES County, for any expense incurred by the County in the repairing of damage to any portion of the county highway right of way caused by work performed under a Permit, including any out of the ordinary engineering supervision and inspection expenses provided by the county. In those instances wherein a deposit is required, the amount of the deposit shall be specified in the Special Provisions of the Permit. If a check is furnished, any monies remaining over and above such expense shall be returned to the applicant.

XII. The Permit as issued does not in any way imply an easement on private property.

XIII. The installations shall be made in conformity with all applicable laws, regulations and codes covering said installations. All installations shall be made in conformity with regulations of governmental agencies for the protection of the public.

XIV. Upon completion of an installation, the Utility shall restore the county highway right of way to its original condition. The Utility shall then notify the office of the County Highway Engineer of the completion of the work so that inspection can be made to determine its acceptability.

AERIAL

I. There shall be only a single pole line on the county highway right of way on either side of the center line thereof.

II. Longitudinal installations on county highways shall normally be located in the outer five feet of the right of way. At crossing of the county highway, poles shall be placed at a minimum of thirty feet from the shoulder lines of the through roadbeds unless right of way widths are prohibitive to such location.

III. The location of all brace poles, anchors and anchor poles within the limits of the county highway right of way shall be approved by the County Highway Engineer.

IV. In those instances in which a Utility is issued a Permit or Permits for construction on both sides of the county highway right of way in a given area, such Permit is conditioned upon the Utility subsequently providing joint use to other Utilities upon reasonable terms mutually agreeable to the Utilities.

UNDERGROUND

I. All crossings of the roadbeds of the county highways shall be made by boring inside a casing or carrier pipe, or by jacking, unless this procedure is modified in the Special Provisions of this Permit. The auger shall not lead the casing or carrier pipe by more than one inch. Open trenching shall be restricted to the area 5 feet beyond the shoulder to the right of way line except as modified in the Special Provisions of the Permit.

IX. If at any time NOBLES County, acting through its Board of County Commissioners, shall deem it necessary to make any improvements or changes on all or any part of the right of way of the county highway which affect a utility located on county highway right of way, then and in such event, the owner o the utility shall within 15 days after written notice from the Board of County Commissioners, or its authorized agent, proceed to alter, change, vacate or remove said utility from the county highway right of way so at to conform to said county highway changes and as directed by the Board of County Commissioners. Such work shall be done without any cost whatsoever to NOBLES County harmless from any and all claims of damage of any nature whatsoever occasioned by reason of not having removed said utility within the time specified in said notice.

II. When pipes with bells or flanges are installed, the crossings of the roadbeds of the county highway shall be made by boring inside a conduit as provided in paragraph I of this section or jacking a conduit of sufficient diameter to permit threading the carrier pipe through it.

III. All voids caused by jacking or boring shall be filled by pressure grouting. The grout material shall consist of a sand-cement slurry of at least two sacks of cement per cubic yard and a minimum of water to assure satisfactory placement.

IV. The underground utilities shall be so installed as virtually to preclude any necessity for disturbing the roadbeds to perform maintenance operations.

V. Underground installations shall be accomplished without damaging or destroying the principal root structure of specimen trees.

Location Sketch

Show location of proposed facility in relation to the centerline of the county highway and other pertinent features such as right of way line, shoulder line, curb line and edge of surfacing. The facility should also be referenced to adjacent land lines.

NOBLES COUNTY
DEPARTMENT OF HIGHWAYS

UTILITY PERMIT

Reference: Project _____
C.S.A.H _____
C.R. _____

In accordance with the application herein, a Utility Permit is granted to _____ _____ to place, construct and thereafter maintain _____ _____ on or across, or under the right of way of County Highway No. _____ in the location shown on the sketch which is a part of said application, or in such location as may be specified by the Department of Highways in the Special Provisions hereof.

SPECIAL PROVISIONS:

A permit fee in the amount of $ _____, payable to the Nobles County Auditor-Treasurer is required.

Payment for permit fee received _____.

Approved _____
(date)
Board of County Commissioners
Nobles County, Minnesota

By _____
County Highway Engineer

Permit No._____
Certified Check No. _____
Surety Bond No. _____
Date of S. Bond or C. Check _____
Bank or Bonding Co. _____
Deposit Made by _____

COPIES:

APPLICATION FOR UTILITY PERMIT ON COUNTY HIGHWAY RIGHT OF WAY

Application is hereby made for permission to place, construct and thereafter maintain a _____ _____ along or across county highway _____ from _____ _____ to _____ _____ feet from center line on the _____ (east, west, north or south) side of the county highway in accordance with the sketch shown on the inside hereof, or attached thereto.

I. AERIAL CONSTRUCTION (Check one)

☐ Single pole ☐ Open wire ☐ Vertical
☐ H-Frame ☐ Cable ☐ Cross-arm
☐ Single pole & H-Frame ☐ Steel tower ☐ Vertical & cross-arm
☐ Other _____

VOLTAGE	NUMBER OF CONDUITS	SIZE OF CONDUITS

Minimum height of conductor: _____ ft. along highway _____ ft. at crossings over highway

EXTENT & LOCATION OF TREE TRIMMING AND/OR CLEARING:

II. UNDERGROUND CONSTRUCTION

CONDUIT

☐ Multiple tile ☐ Sectional concrete
☐ Transite ☐ Steel pipe
☐ Clay tile ☐ Other _____

CASING

☐ Steel pipe ☐ Sectional concrete ☐ Other _____

SIZE	DEPTH

VOLTAGE	NUMBER OF CONDUITS	SIZE OF CONDUITS

Minimum height of conductor: _____ ft. along highway _____ ft. at crossings over highway

EXTENT & LOCATION OF TREE TRIMMING AND/OR CLEARING:

METHOD OF INSTALLING UNDER ROADBEDS (if open trench, explain why necessary)

☐ Open trench _____
☐ Jacking ☐ Boring

III. Work to start on or after _____ and to be completed on or before _____

IV. The applicant in carrying on any and all of the work herein above mentioned or referred to in its application and in the Permit issued herefore, shall strictly conform to the terms of such Permit, and the regulations of the Pipestone County Board of Commissioners, as set forth herein together with the Special Provisions, all of which are made a part hereof. The applicant specifically agrees to be bound hereby. The applicant shall also comply with the regulations of all other governmental agencies for the protection of the public. The work shall be accomplished in a manner that will not be detrimental to the highway and that will safeguard the public.

Dated this _____ day of _____. _____
(Name of Company making application)

Signature _____ By _____
Title

Address _____

Rules and Regulations for Utilities on County Highways

DEFINITIONS

Utility. Under this order "utility" shall mean and include all privately or co-operatively owned communication lines and facilities, any systems, lines and facilities for the distribution and transmission of electrical energy, oil, gas, water, sewer, steam and other pipe lines, railways, ditches, flumes or other structures which under the laws of this State or the ordinance of this County, any Village or City may be constructed, placed or maintained across, along or on county highway right of way. Dependent upon the meaning intended in the context, "Utility" shall also mean the utility company, inclusive of any wholly owned subsidiary.

GENERAL

I. Except as otherwise permitted, utility construction and relocation on county highway right of way shall not be commenced until an application for a Permit has been made and such Permit granted. The Permit sketch shall show the location of the proposed utility with reference to county highway center line. A copy of the sketch shall be provided for each copy of such Permit.

II. Burning or disking operations and/or the use of chemicals to control or kill trees, brush and other vegetation is prohibited without prior approval from the County Highway Engineer.

III. All waterways and lines of drainage shall remain operative.

IV. Wherever topsoil and sod are disturbed they shall be replaced and maintained satisfactorily until the turf is established.

V. The utility facility and installation shall not interfere with any existing utility facilities on the county highway right of way.

VI. When necessary, barricades, warning devices and flaggers shall be provided by the Utility during all phases of their construction and maintenance operations on county highway right of way.

VII. At the time of construction of the utility and at the times of subsequent maintenance, prior approval shall be obtained from the County Highway Engineer for the cutting and trimming of trees within the county highway right of way. Wherever trees are cut the resulting stumps shall be removed unless otherwise provided in the Special Provisions of the Permit. Any holes caused by stump removal shall be backfilled, the area leveled and all materials associated therewith disposed of outside the county highway right of way. The Utility shall advise the County Highway Engineer at least 48 hours in advance of its intent to start clearing and grubbing operations so that proper supervision can be provided.

VIII. The Utility shall notify the County Highway Engineer of its intent to perform service and maintenance operations which will interfere with the flow of traffic on county highways, and shall obtain his approval prior to performing such operations. However, the Company may perform service and maintenance operations on county highways including opening and disturbing the surface of the right of way without prior approval in those instances where an emergency exists that is dangerous to the life or safety of the public and which requires immediate repair. The Utility shall take all necessary and reasonable safety measures to protect the traveling public and shall notify the County Highway Engineer at the earliest possible moment.

IX. If at any time Pipestone County deems it necessary to make any improvements or changes on all or any part of the right of way of the county highway which affect a utility located on the right of way , then and in such event, the owner of the utility shall within 15 days after written notice from Pipestone County , proceed to alter, change , vacate or remove said utility from the county highway right of way so as to conform to said county highway changes and as directed by the County Highway Engineer. Such work shall be done without any cost whatsoever to Pipestone County and shall be completed within the date specified in said written notice. The Utility shall assume all liability and save Pipestone County harmless from any and all claims of damage of any nature whatsoever occasioned by reason of not having removed said utility within the time specified in said notice.

X. The Utility shall assume all liability for, and save the County, its agents and employees, harmless from, any and all claims for damages, actions or causes of action arising out of the work to be done herein and the continuing uses by the Utility, including but not limited to the placing, constructing, reconstructing, maintaining and using of said utility under this application and Permit.

XI. Pipestone County may require the Utility, or its contractor, to furnish a deposit in the form of a certified check, a surety bond or corporate undertaking, in favor of Pipestone County, for any expense incurred by the County in the repairing of damage to any portion of the county highway right of way caused by work performed under a Permit, including any out of the ordinary engineering supervision and inspection expense provided by the County. In those instances wherein a deposit is required the amount of the deposit shall be specified in the Special Provisions of the Permit. If a check is furnished, any monies remaining over and above such expense shall be returned to the applicant.

XII. The Permit as issued does not in any way imply an easement on private property.

XIII. The installations shall be made in conformity with all applicable laws, regulations and codes covering said installations. All installations shall be made in conformity with regulations of governmental agencies for the protection of the public.

XIV. Upon completion of an installation, the Utility shall restore the county highway right of way to its original condition. The Utility shall then notify the office of the County Highway Engineer of the completion of the work so that inspection can be made to determine its acceptability.

AERIAL

I. There shall be only a single pole line on the county highway right of way on either side of the center line thereof.

II. Longitudinal installations on county highways shall normally be located in the outer five feet of the right of way. At crossings of the county highway, poles shall be placed at a minimum of thirty feet from the shoulder lines of the through roadbeds unless right of way widths are prohibitive to such location.

III. The location of all brace poles, anchors and anchor poles within the limits of the county highway right of way shall be approved by the County Highway Engineer.

IV. In those instances in which a Utility is issued a Permit or Permits for construction on both sides of the county highway right of way in a given area, such Permit is conditioned upon the Utility subsequently providing joint use to other Utilities upon reasonable terms mutually agreeable to the Utilities.

UNDERGROUND

I. All crossings of the roadbeds of the county highways shall be made by boring inside a casing or carrier pipe, or by jacking, unless this procedure is modified in the Special Provisions of the Permit. The auger shall not lead the casing or carrier pipe by more than one inch. Open trenching shall be restricted to the area five feet beyond the shoulder to the right of way line except as modified in the Special Provisions of the Permit.

II. When pipes with bells or flanges are installed, the crossings of the roadbeds of the county highways shall be made by boring inside a conduit as provided in paragraph I of this section or jacking a conduit of sufficient diameter to permit threading the carrier pipe through it.

III. All voids caused by jacking or boring shall be filled by pressure grouting. The grout material shall consist of a sand-cement slurry of at least two sacks of cement per cubic yard and a minimum of water to assure satisfactory placement.

IV. The underground utilities shall be so installed as virtually to preclude any necessity for disturbing the roadbeds to perform maintenance operations.

V. Underground installations shall be accomplished without damaging or destroying the principal root structure of specimen trees.

LOCATION SKETCH

Show location of proposed facility in relation to the center line of the county highway and other pertinent features such as right of way line, shoulder line, curb line and edge of surfacing. The facility should also be referenced to adjacent land lines.

Approved by: * _____ _____
Pipestone County Highway Department Date

* Permit is not valid without this signature

City of Rochester Right of Way Permit

201 4th Street SE, Rochester, MN 55904 (507) 328-2400 Fax: (507) 328-2401

Applicant _____
Person Performing Work _____
License # _____
Registration # _____ Fax _____
Contact Person _____
Contact Phone # _____ Cell # _____

Property Owner _____
Address - Location _____
_____
Lot _____ Block _____
Subd.
Pin #

Permit Requested
- ☐ Street/Alley Obstruction
- ☐ Boulevard Obstruction
- ☐ Construction Noise Ord.
- ☐ Sewer Connection
- ☐ Water Connection
- ☐ Storm Water Connection
- ☐ Sidewalk Construction
- ☐ Driveway Construction
- ☐ General Utility (Gas, Electric, Phone, Cable, etc

*** 2 year warranty for all work**

OFFICE USE ONLY

Permit is Valid
_____ to _____

Permit # _____

Payment Made
_____

Describe Work to be Performed

_____
_____
_____

Work Schedule Work to commence on/after _____ Work to be completed by _____

Traffic (If applicable) Street closure on _____ Reopen street by _____
☐ Detouring route _____

Installation Methods ☐ Open Trench ☐ Boring ☐ Jacking ☐ Other _____

Installation Materials

_____ Plastic Pipe	_____ Sanitary Service	☐ Plastic	☐ Clay	☐ Cast Iron
_____ Subdrain	_____ Storm Sewer	_____ Copper Water Service		_____ Ductile Iron
_____ Fiber Optic	_____ Coaxial Cable	_____ Copper/Plastic Gas line		_____ Copper Wire
Concrete ☐ SW ☐ DR	_____ Bituminous Path	_____ Other Material _____		

Installation Location/Size _____ Width/Diameter _____ Length of installatio _____ Depth
☐ Blvd to Building ☐ Main to Blvd ☐ Main to Building ☐ Other _____

Installation Purpose ☐ New installation ☐ Replacement ☐ Repair ☐ Disconnect/Abandon

Restoration Areas ☐ Curb & Gutter ☐ Sidewalk ☐ Roadway ☐ Boulevard/Vegetation

Services Are Stubbed Beyond Curb Box ☐

Permit Issuance

Owners/Applicant's Signature (Utility Permits Only) _____ Dated _____
Contractor's Signature (Utility Permits Only) _____ Dated _____
City Traffic Engineer (Detours/Closure Only) _____ Dated _____
City Signature _____ Dated _____
Notes: _____
_____
_____

Sidewalk Stakes Requeste ☐

Owner, Applicant, Contractor hereby agrees to comply with the ordinances of the City of Rochester and the engineering standards of the Public Works Department, regulations of the State of Minnesota and the Federal Government and also agrees to the additional requirements/regulations, noted on page 2 of this permit, and is responsible for signing per MN MUTCD ADA Compliant.

RECEIPT

- ☐ Street/Alley Obstruction
- ☐ Boulevard Obstruction
- ☐ Construction/Noise Ordinance
- ☐ Sewer Connection
- ☐ Water Connection
- ☐ Storm Water Connection
- ☐ Sidewalk Construction
- ☐ Driveway Construction
- ☐ General Utility (Gas, Electric Phone, Cable, etc.)

Permit # _____
Valid from _____ to _____
Applicant _____
#Error
Entered By:

City of Rochester Right of Way Permit

REGULATIONS

Note: *The following regulations apply to and are conditions of the permit issued as a result of this application.*

GENERAL

1. The permit is revocable in nature. If the City shall make any improvements or change on all or part of its ROW which impacts Applicant's installation, then and in every case the applicant herein named shall, after notice from the City or its authorized agents, proceed to alter, change, vacate or remove from ROW said installation necessary to conform with said changes. Any work performed by the Applicant as a result of City's ROW-modification shall be at Applicant's sole cost and expense.
2. The Applicant shall assume all liability for, and save the City, its agents and employees, harmless from, any and all claims for damages, actions or causes of action arising out of the work to be done herein and the continuing uses by the Applicant, including but not limited to the placing, construction, reconstructing, maintaining and using of said utility under this application and permit.
3. ROW shall be cleaned up after work is completed.
4. No work shall be done in such a manner as to create or maintain a nuisance.
5. After Applicant completes its work in the ROW, Applicant must notify the City Engineer within 2 working days that such work has been completed and is ready for final inspection. Call Mike Glenzinski at 328-2400 for inspection request.
6. A certified check or deposit may be required to ensure proper restoration of surfaces and to cover payment for any damage to street or public property.
7. Permittee warrants all work, including settlement of backfill, for 2 years.

SAFETY

1. Applicant shall erect safety devices for the protection of the work and the safety of the public that conform to the requirements of the Manual of the Uniform Traffic Control Devices.
2. Blasting is not permitted unless prior approval is given by the City.
3. For trenching operations it is Applicant's responsibility to be familiar with and follow the provisions of the Department of Labor and Industry Occupational Safety and Health Rules.
4. Contractor shall notify area utilities through the state wide Gopher One Call 800-252-1166 prior to any excavation.
5. Permittee agrees to abide by the MUTCD traffic standards.

ROADWAY, SIDEWALK, AND BOULEVARD REPLACEMENT

1. Installation of pipe under concrete or high type bituminous pavements shall be done by jacking or boring unless trenching is specifically permitted in the Special Provision of the Permit.
2. All backfilling shall be in accordance with the City of Rochester Standard Specifications for Construction of Service Connections with Public Mains.
3. All surfaces shall be restored in accordance with the City of Rochester standard specifications for construction of Service Connections with Public Mains. The provisions requiring sod restoration of all mowed turf areas apply.
4. All surfaces shall be restored by the Contractor with the exception of street surfaces which will be replaced by the Department of Public Works and charged to the Contractor at current Revised Street Opening Rates, approved by the Common Council.
5. If settlement occurs or the excavation caves in so that replacement materials settle at any time, or if the roadway surface deteriorates or fails to serve as well as the original surface, within a period of two years after the completion of this project, it shall be repaired and replaced by the Applicant.
6. The Applicant shall be responsible for placing sod and shall individually notify, within 3 days of placement, the adjacent property owners.

MAPPING

1. Permittee agrees to provide electronic copies or hard copies and as built constructed information for the project to Public Works.

UTILITY/RIGHT-OF-WAY PERMIT APPLICATION

Allow a minimum of 5 business days for permit processing from date of arrival.

Applicant is responsible for all locations and Gopher State One Calls including registration of new utilities. Please describe and check all that apply. Attach two scale drawings of project area. The drawing needs to show all existing and proposed right-of-way, curb, sidewalk, trails, and above and below ground facilities or appurtenances and poles.

Project Description:			
Date:	Co. Reference # :		
Company:	Contact Person:		
Address:	City:	State:	Zip:
Email:	Phone:		

Sub-contractor Performing Work			
Company:	Name:		
Address:	City:	State:	Zip:
Email:	Phone:		

Location:	
Subdivision:	Address/Description:

When approved, deliver to:			
Applicant: ☐ OR Sub-Contractor: ☐	Email: ☐	Regular Mail: ☐	Pickup: ☐

When approved, method of payment by:			
Applicant: ☐ OR SubContractor: ☐	Credit Card: Expiration Date:	Name: Check box if you want credit card to be kept on file: ☐	Check: ☐
Permits must be paid and picked up by date of project start date.			

Nature of Work:	Cable TV ☐	Electric ☐	Gas ☐	Repair ☐
Telecom. ☐	New ☐	Replacement ☐	Service ☐	Abandon ☐
Underground ☐	Street Light ☐	Aerial ☐	Other Enter Information here.	

Estimated Start Date:	Estimated Completion Date:

Type of Surface to be Disturbed:	Blvd. ☐	Sidewalk ☐	Easement ☐
Bituminous ☐ Concrete ☐	Gravel ☐	Other	

Method of Installation:	Trench ☐	Plow ☐	Directional Bore ☐
Backhoe ☐ Hand Dig ☐	Pneuma Gopher ☐	Other	

Material Used:		
Size and type of pipe, conduit or cable:		
Distance from curb or centerline:		
Voltage or pressure:	Length:	Depth from surface:

Detour of Traffic:	No: ☐ Yes: ☐	Traffic control must comply with MMUCD

Restoration Planned:	Bit. Paving ☐	Motorized Tamper ☐	Machine Formed Curb ☐
Hand formed Curb/Sidewalk with Forms ☐		Sodding with 6" Topsoil ☐	
Seeding with 6" Topsoil ☐		Other	

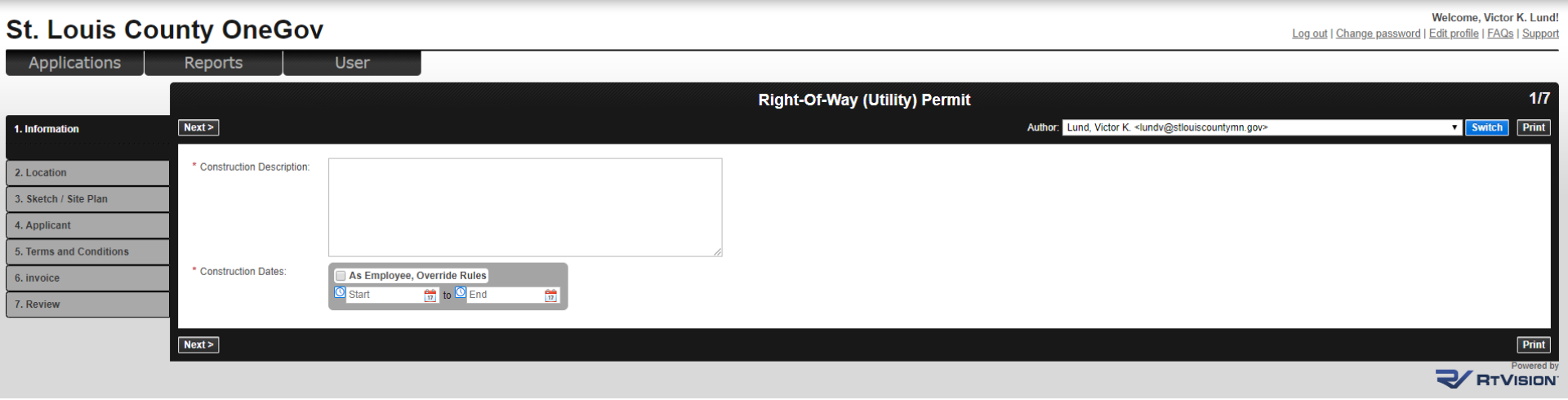
OFFICE USE ONLY: PERMIT FEES			
Administration Fee (per permit)	$150 per permit	No.	Total:
Fee includes up to two street or blvd. excavations			
Each Additional Street Excavation Per Hole	$40 per hole	No.	Total:
Each Additional Blvd Excavation Per hole	$20 per hole	No.	Total:
		Estimated Total Due:	

Excavation permits are issued subject to all of the terms, conditions and requirements of Section 93 of the St. Michael City Code. By executing this application and accepting the Excavation Permit, applicant agrees to fully comply with all terms and conditions and requirements of Section 93 of the St. Michael Code of Ordinances.

Conditions of Approval: Notify all affected homeowners of work prior to beginning. Restore all disturbed area "in kind". Locate and avoid all utilities including sprinklers and storm sewers. Bore all roads and driveways.

Electronic Printed Signature:	Date:

Office Use Only *Allow a minimum of 5 business days for permit processing from date of arrival.*		
Date Received:	Approved by:	Date Approved:
Permit Number:	Final Total:	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1/7
1. Information
2. Location
3. Sketch / Site Plan
4. Applicant
5. Terms and Conditions
6. invoice
7. Review
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As Employee, Override Rules
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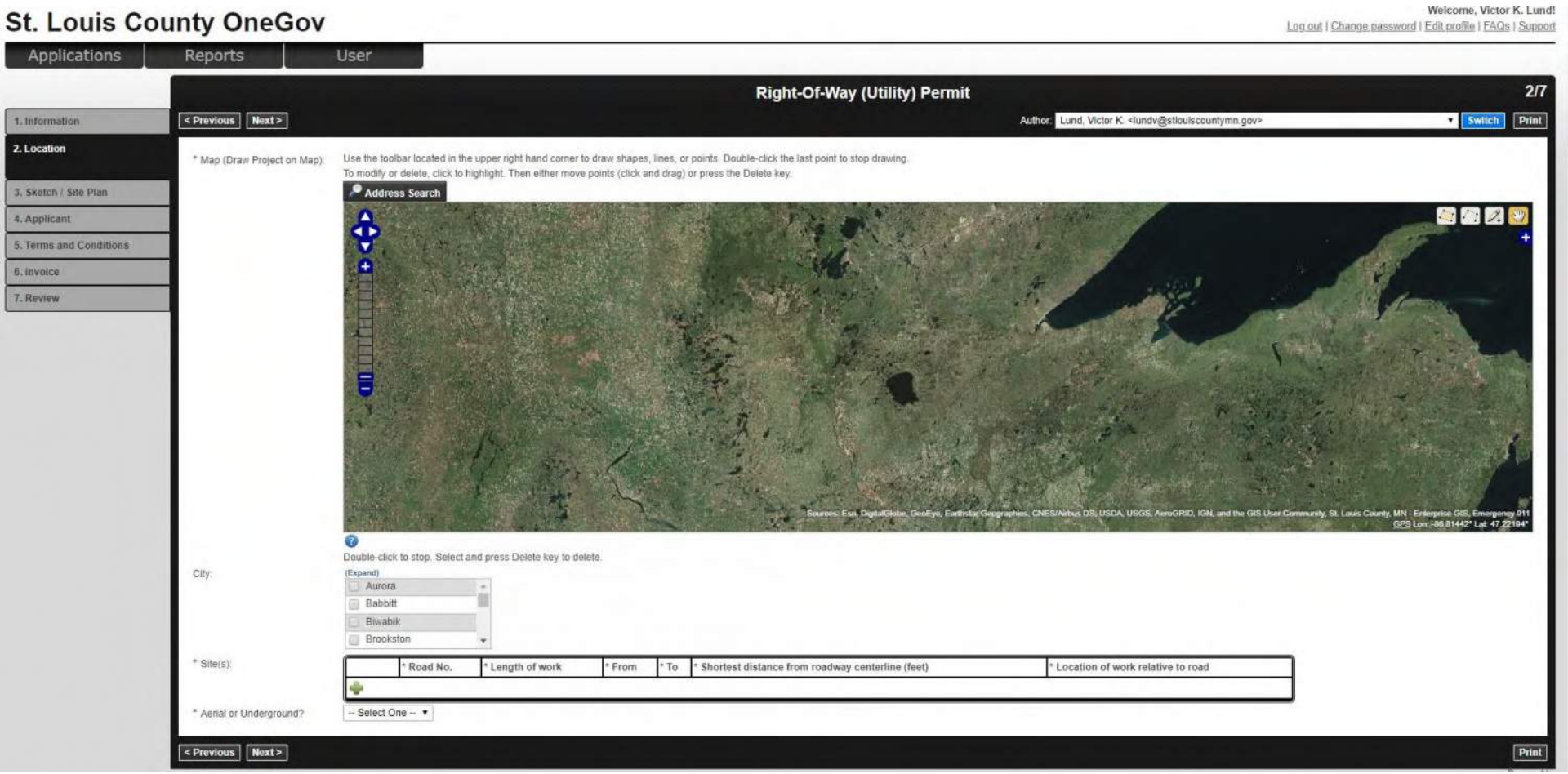
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To modify or delete, click to highlight. Then either move points (click and drag) or press the Delete key.
Address Search
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Biwabik
Brookston
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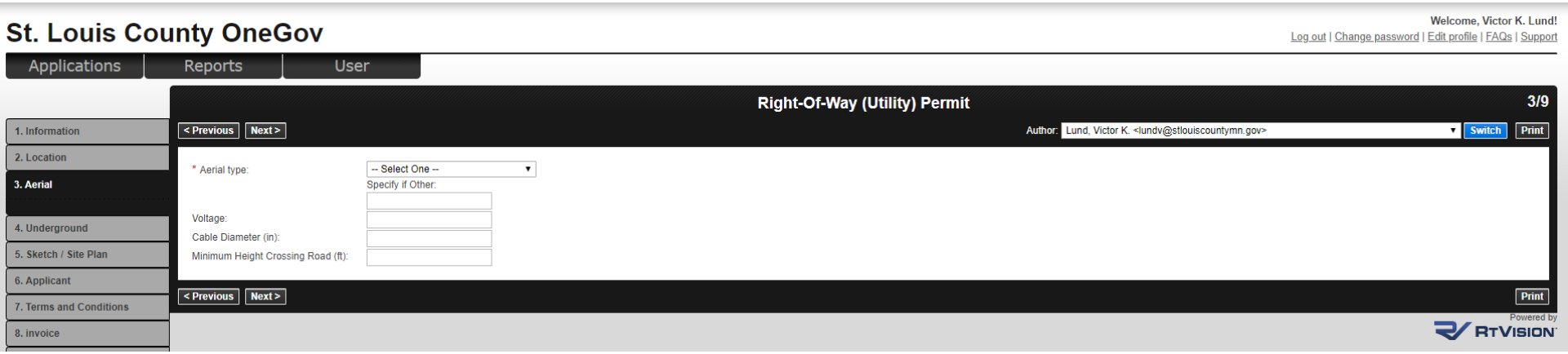
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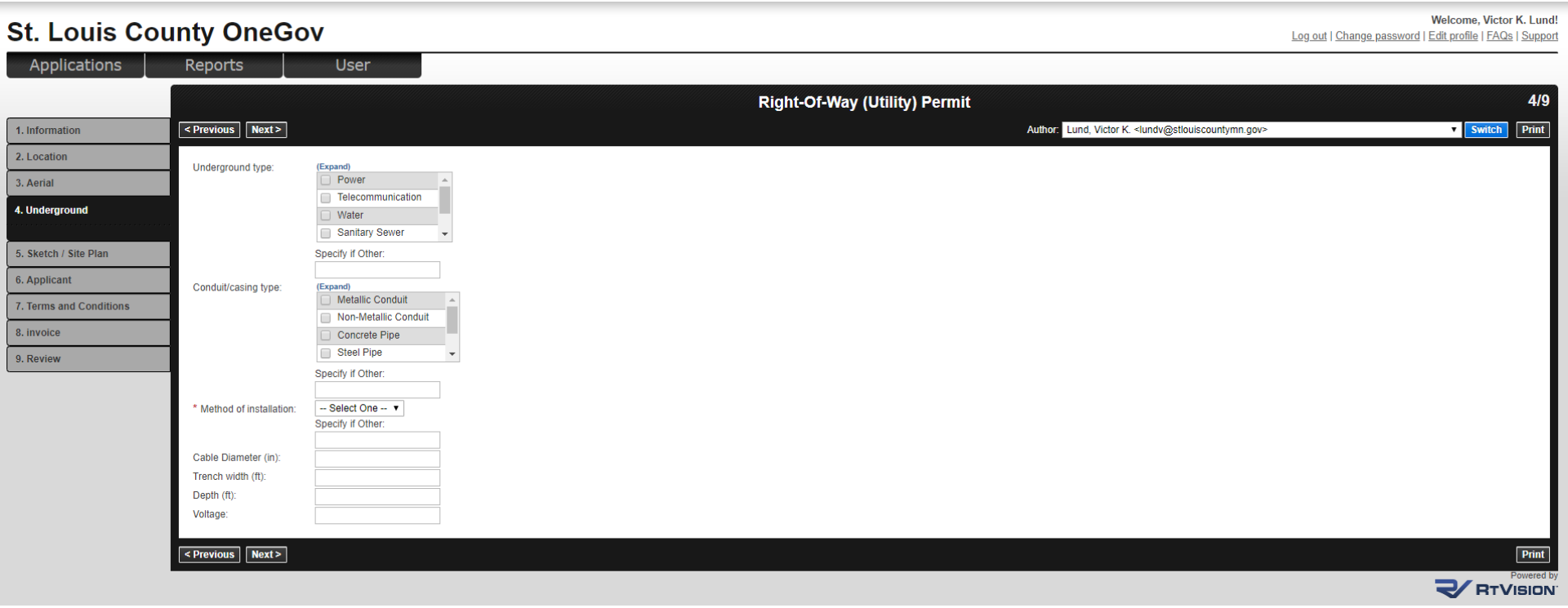
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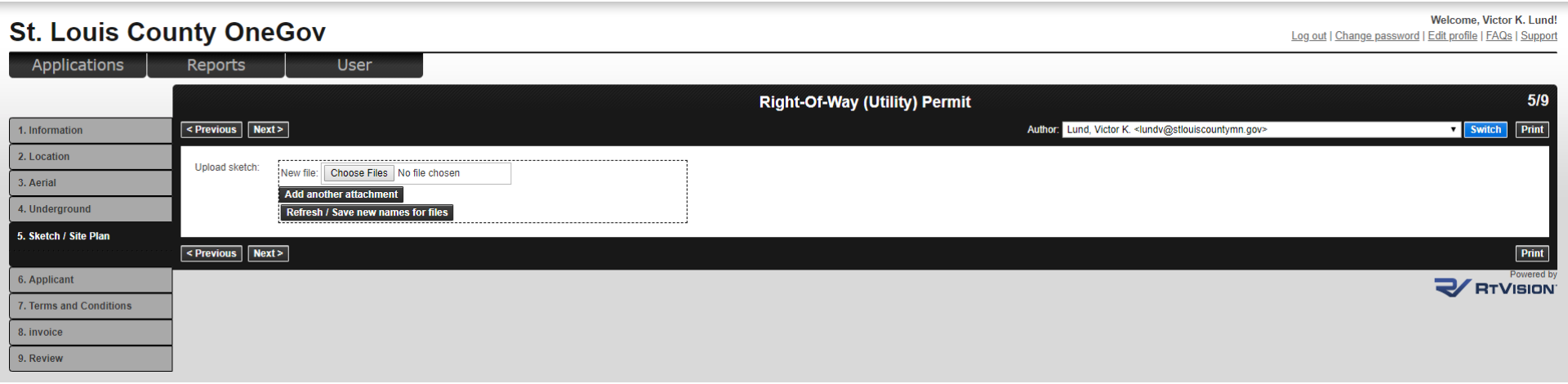
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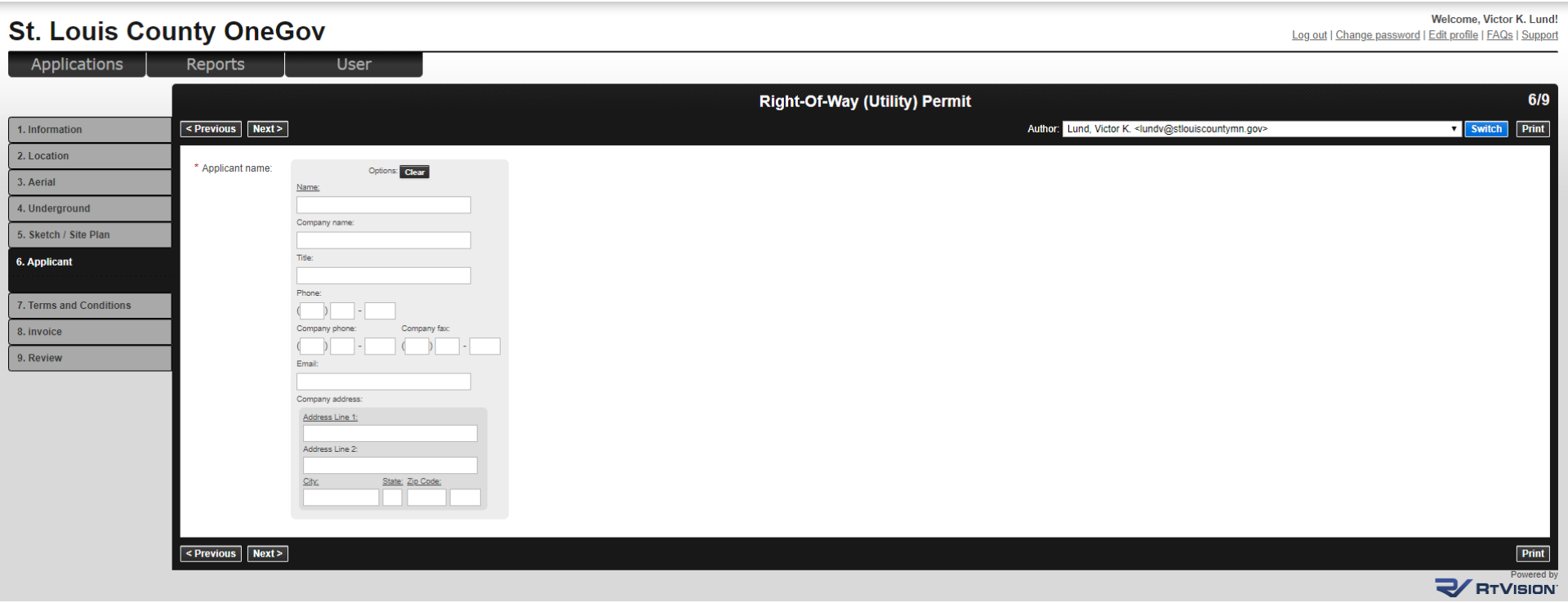
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Right-Of-Way (Utility) Permit

☐ I have read and agree to these Terms and Conditions.

Definitions

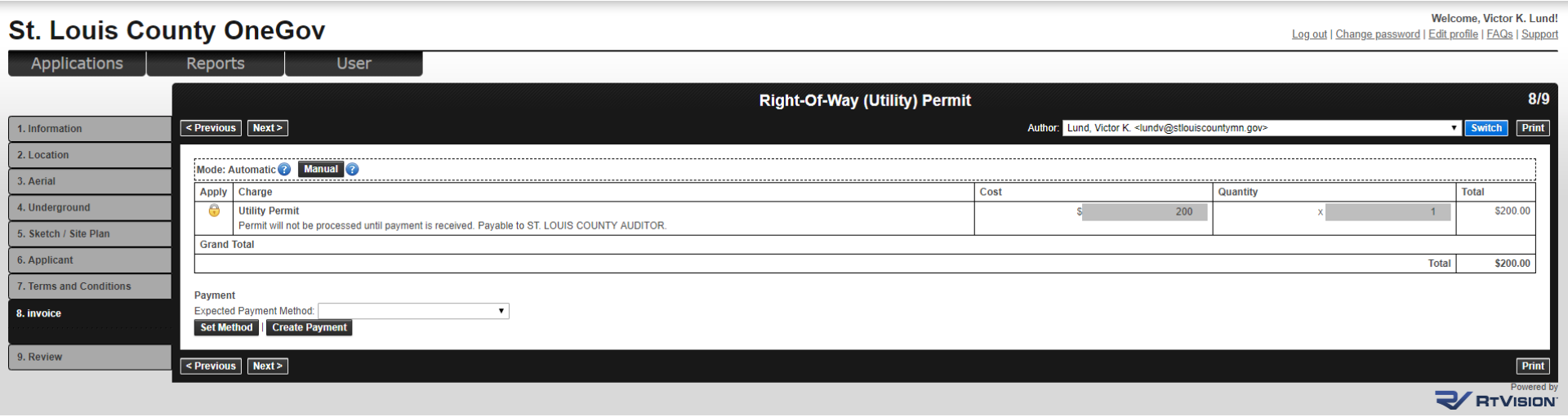
County Highway – A county-state-aid-highway (CSAH), county road (CR) or unorganized township road (UT).
Permittee – The party which was issued the approved permit.
Right-of-Way – The area designated for use by the county highway. Right-of-way may be prescriptive easement, recorded easement or fee-owned.
Utility – All privately, publicly, or cooperatively owned facilities that provide communications, or collection or distribution of electrical energy, or distribution of oil, gas, water, sewer, steam, or other structures which under the laws of this state or the ordinance of any village or city may be constructed, placed or maintained across, along or on county highway right-of-way.

General

Work shall not begin until the permit is approved. All approved work shall conform to the most current edition of the Minnesota Department of Transportation Standard Construction Specifications. All work shall comply with the traffic control requirements in the most current edition of the Minnesota Temporary Traffic Control Field Manual. The Permittee shall obtain the licenses and permits required by State and Federal laws and regulations. Securing of such permits shall be the responsibility of the Permittee and shall be made available upon request by St. Louis County. The Permittee shall observe and comply with all applicable State and Federal laws and regulations, orders and decrees of bodies and tribunals with lawful jurisdiction over the work site, and applicable local ordinances. A hard copy or electronic version displayed on a mobile device of the approved permit must be on the work site during active construction operations. Absence of the permit on the work site may result in the construction activity being shut down. Traffic is to be maintained at all times unless specified in the permit or approved by St. Louis County. Location of subsurface utilities must be located before excavating by contacting Gopher State One Call at 1-800-252-1166. The permit does not imply an easement or approval of access onto private property. Any incursions or damage on private property shall be the sole responsibility of the Permittee. If additional work is required outside of the right-of-way, an agreement with the private landowner must be in place prior to completing that work. A certified check or bond may be required to ensure proper restoration of the work site. The request for inspection must be submitted online to schedule final inspection and approval of completed work. Failure to request inspection or properly restore the work site may result in the suspension of future permits. If the Permittee is found to be non-compliant with any of the terms specified herein, or with the permit special provisions, or with any additional directives by the St. Louis County Highway Engineer, St. Louis County reserves the right to revoke the permit. The permit will expire at one year from the date of approval if no work has occurred. The permit fee will not be refunded for expired permits. The Permittee shall assume all liability for, and save St. Louis County, its agents and employees harmless from any and all claims for damages, actions or causes of actions arising out of its work. Any and all claims that may or might arise under the Workers Compensation Act of the State of Minnesota on behalf of the employees or agents of the Permittee, and any claims made by any third parties as a consequence of any act of said employees or agents, shall be the sole responsibility of the Permittee. St. Louis County is not responsible for any costs associated with approved or unapproved work associated with this permit. At any time in the future, St. Louis County may complete roadway improvements that necessitate the relocation of utilities approved by this permit. The utility owner shall be responsible for any future utility relocation as a result of a St. Louis County roadway project.

Special Provisions

Unless approved or specified otherwise by the permit, (1) all utilities shall be installed in the outer five feet (5') of the right-of-way, (2) guy wires, stays or anchors shall be installed in the outer ten feet (10') of the right-of-way, (3) the pavement surface shall not be disturbed, (4) installation of utilities under the roadway shall be completed by directional boring at a minimum depth of 36 inches, (5) trees greater than six (6) inches in diameter at breast height shall not be removed or damaged, (6) stumps remaining from the removal of trees shall be removed, (7) the minimum clearance of aerial utilities over a county highway shall be 22 feet, and (8) privately owned items shall not be removed, relocated or damaged.
Installation of new utilities shall not conflict with existing utilities or roadway functions. Burning, disking operations and/or the use of chemicals to control or kill trees and other vegetation is prohibited unless specified in the permit or approved by St. Louis County. Restoration of pavement shall extend to the nearest longitudinal joint. Any pavement or soil stabilization failures (such as sinkholes, depressions or cracking) shall be restored to the original condition. Upon completion of all work, all impacted areas must be returned to original condition.
The Permittee shall ensure adequate Erosion Sediment Control (ESC) Best Management Practices (BMPs) are utilized for the permitted scope of the work. St. Louis County reserves the right to require corrective action related to ESC. If the Permittee fails to undertake corrective action within 24 hours of verbal notification, St. Louis County will report any deficiencies to the Minnesota Pollution Control Agency in accordance with Minnesota Rules 7053.0205 Subp. 2. Any release of material that may cause pollution, may be environmentally damaging, may be hazardous, is petroleum based, or in the event of a pipeline break, must be reported to the State Duty Officer in accordance with Minnesota Statute 115.061. In the event the State Duty Officer is notified, the Permittee shall also notify St. Louis County within 24 hours of occurrence of the discharge.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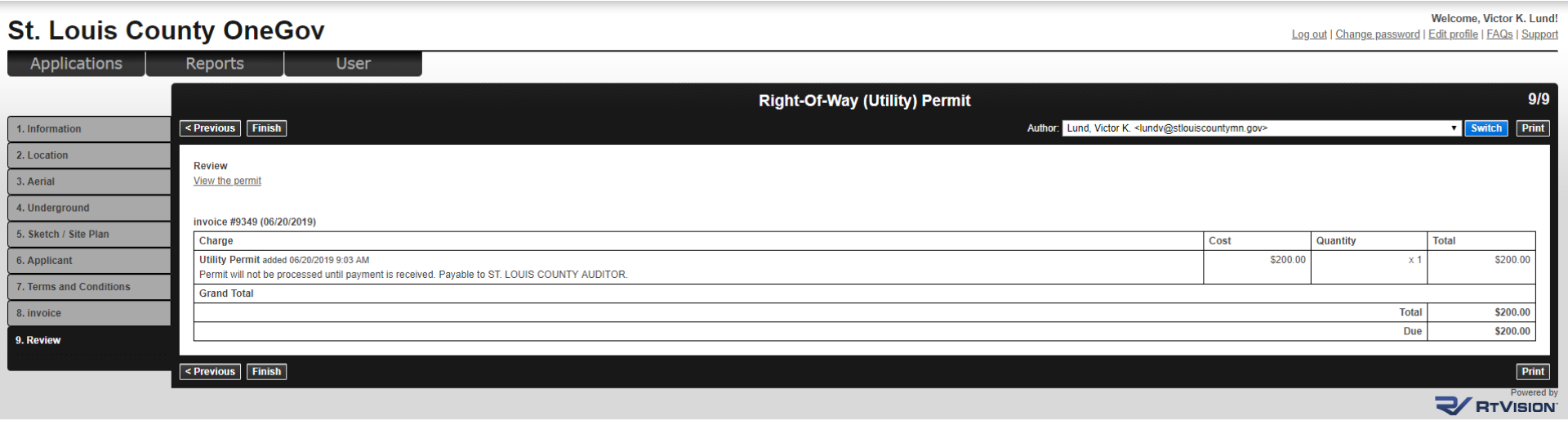

St. Louis County OneGov
Welcome, Victor K. Lund!
Log out | Change password | Edit profile | FAQs | Support
Applications
Reports
User
Right-Of-Way (Utility) Permit
9/9
1. Information
2. Location
3. Aerial
4. Underground
5. Sketch / Site Plan
6. Applicant
7. Terms and Conditions
8. invoice
9. Review
< Previous
Finish
Author: Lund, Victor K. <lundv@stlouiscountymn.gov>
Switch
Print
Review
View the permit
invoice #9349 (06/20/2019)
Charge
Cost
Quantity
Total
Utility Permit added 06/20/2019 9:03 AM
Permit will not be processed until payment is received. Payable to ST. LOUIS COUNTY AUDITOR.
$200.00
x 1
$200.00
Grand Total
Total
$200.00
Due
$200.00
< Previous
Finish
Print
Powered by
RTVISION

Washington County

WASHINGTON COUNTY PUBLIC WORKS DEPARTMENT
11660 Myeron Road North
Stillwater, Minnesota 55082
Phone: (651) 430-4313 • Fax: (651) 430-4350

Utility Service Lateral: $25
All Others: $100 per 1/8 Mile, or fraction thereof.

Please Allow 10 Business Days for Processing

Permit No. _____
County Road _____
Storm Sewer _____
Permit Fee _____

APPLICATION FOR RIGHT OF WAY PERMIT

ALL APPLICANTS MUST BE REGISTERED WITH WASHINGTON COUNTY TO OBTAIN PERMIT

Name of Applicant	**Contact Address**	
_____	_____	**Phone**_____
_____	City_____	**Fax** _____
Contractor: _____	State/Zip _____	**Registration#** _____

Date and Location

Proposed Start Date: _____ Proposed End Date: _____
County Road Number: _____ City/Township: _____

Describe Location and Project Limits. Include a Drawing and/or Map if Necessary.

_____

Type of Work (Check all that Apply)

___ Install New Underground Utilities
___ Install New Overhead Utilities
___ Install New Ground-Level Utilities
___ Maintenance (No New Installation)
___ Install Antenna/Wireless Structure
___ Install Sign or Monument
___ Install Street/Sidewalk/Driveway/Culvert
___ Place Temporary Structure or Container
___ Install Landscaping
___ Grading/Excavation/Boring
___ Tree/Brush Removal
___ Host a Parade/Race/Event
___ Other (Describe Below)

Traffic Impacts (Check ONE)

___ No Traffic Impacts
___ Sidewalk, Shoulder, or Trail Closure (Vehicle lanes not affected)
___ Closure of Traffic Lane(s) without detour. (Flagging or lane reduction, no re-routing of traffic). **A Traffic Control Plan may be required.**
___ Closure of Traffic Lane(s) requiring detour (Traffic being re-routed). **A traffic control plan MUST be submitted with permit application.**

Utility Information (If applicable)

Utility Type:
___ Electrical
___ Communications (Copper)
___ Communications (Fiber Optic)
___ Communications (Wireless)
___ Natural Gas / Petroleum
___ Water or Sewer
___ Other: _____

For Underground Utilities:
Size: _____
Conduit Type: _____
Casing Type: _____
Depth: _____
Voltage: _____
Pressure: _____

For Overhead Utilities:
Installing New Poles? ___Yes ___No
Minimum Height of Conductor from ground: _____
Minimum Height of Conductor over roadway: _____
Line Voltage: _____

V. The applicant shall perform all work according to the terms of this permit, the Washington County Right of Way Ordinance and all other regulations of Washington County, and any Standard and/or Special Provisions which are attached to the permit. The applicant shall comply with all applicable codes, laws, and ordinances including County Ordinance #188. The work performed shall be in no way detrimental to the highway or to the safety of the public. **All traffic control shall comply with the provisions of the Minnesota Manual on Uniform Traffic Control Devices, including the Temporary Traffic Control Zone Layouts Field Manual.** Applicant shall supply accurate electronic "as-built" drawing files in either .DWG or .DXF format. Files will be accepted in other formats and converted, at the applicant's expense, to a compatible format. If the County cannot convert files, the applicant must convert them to a compatible format. Conversion costs will be billed by the County at applicable billable labor rates plus material costs.

Print Name: **Signature:** **Date:**

FOR OFFICE USE ONLY

In accordance with this application, a Right of Way Permit is granted to the applicant to place, construct, and maintain said utility on or across the right of way of said County highway in the location shown on the drawing which is a part of this application, or in a location or manner specified by the County Engineer in the attached Special Provisions. A copy of this Permit must be available at the work site at all times.

Performance Bond, Cashier's Check, or Certified Check No._____ **Amount**_____
No interest shall be earned or paid on this deposit.

SPECIAL PROVISIONS_____

APPROVED _____
Authorized Signature Washington County Public Works Department Date

CITY PERMIT
No: _____

ENGINEERING DEPARTMENT

4701 Highway 61, White Bear Lake, MN 55110
Phone: (651) 429-8531

RIGHT-OF-WAY PERMIT

EXCAVATION OR NON-EXCAVATION (OBSTRUCTION)

APPLICATION DATE:		**UTILITY PROJECT NUMBER:**	

APPLICANT	
Name:	
Address:	City/State/Zip:
Contact Person:	Work/Cell Phone:
Email:	

PROJECT INFORMATION

SITE:	Street:
Location (To and From):	

RIGHT-OF-WAY DETAILS: ☐ Roadway ☐ Sidewalk/Pathway ☐ Boulevard

Right of Way Jurisdiction: ☐ City ☐ County / State (If checked, a Ramsey County or MnDOT ROW permit is also required.)

TYPE OF FACILITY:		**PROPOSED WORK**:
☐ Cable TV: Size/Material/Type: _____		Hole (Quantity): _____
☐ Electric: Size/Material/Type: _____	☐ Gas	Trench (Linear Ft): _____
☐ Water: Size/Material/Type: _____	☐ Curb Cut	Bore (Linear Ft): _____
☐ San. Sewer: Size/Material/Type: _____		Aerial (Linear Ft): _____
☐ Storm Sewer: Size/Material/Type: _____	☐ Other	Utility Pole (Quantity): _____
☐ Phone Telecom: Size/Material/Type: _____	Description: _____	Roll-Off/POD Container (Quantity): _____

SCHEDULE:	Estimated Start Date/Time:	Estimated End Date/Time:

Acknowledgement and Signature:
The undersigned hereby makes application to the City of White Bear Lake to perform the work as herein described. The work for which this permit is issued shall be performed according to: (1) the conditions of this permit; (2) the approved plans and specifications; and (3) the applicable City approvals, Ordinances and Codes.

Print Name:_____ Signature: _____ Date:_____

☐ Contractor ☐ Owner

WARNING: It is the contractor's responsibility to call for utility locates before digging.
Gopher State One call: 651-454-0002

OFFICE USE ONLY

SEPARATE PERMITS REQUIRED: ☐ Ramsey County ☐ Mn/DOT RR ☐ Other _____

Notes:

Permit Approved By _____ Date: _____	Total Fees: $ _____

Please call Carisa Vermeersch, Right-of-Way Coordinator, at 651-429-8531 with questions.
E-mail: cvermeersch@whitebearlake.org

Revised 01/10/19

RIGHT- OF-WAY PERMIT

Wright County Highway Department
Public Works Building
3600 Braddock Ave. N.E.
Buffalo, MN. 55313
Telephone (763) 682-7706
Fax (763) 682-7313

County Permit No. _____

Company W.O. No. _____

Permit Fee Schedule
$100.00 First Mile
$ 50.00 For Each Additional Mile

Application is hereby made for permission to place, construct and thereafter maintain a _____ (along or across) County Highway No. _____ from _____ to _____, _____ feet from the centerline on the (east, west, north, south) side of the county highway. **Submit 2 copies of engineering drawings.**

I. TYPE OF CONSTRUCTION New Facility _____ Existing Facility _____

Power _____ Communication _____ Pipelines _____ Gas _____ Other _____

II. UNDERGROUND CONSTRUCTION

Voltage _____ Number of Conductor _____ Size of Conductor _____ Conduit Type _____
Pressure Flow _____ psig Fluid Type _____ Pipe & Size _____ Casing Type _____

III. AERIAL CONSTRUCTION Voltage _____ Number of Conductors _____ Size of Conductor _____

Single pole _____ Open wire _____ H-Frame _____ Single pole and H-Frame _____ Vertical _____
Steel tower _____ Cross-arm _____ Cable _____ Vertical and cross-arm _____ Other _____

Minimum height of conductor: _____ feet along highway, _____ feet at crossing over highway.

IV. METHOD OF INSTALLING UNDER ROADBEDS (48" minimum depth)

Jacking _____ Boring _____ Pneuma Gopher _____ Open Trench (explain) _____

V. METHOD OF INSTALLING OUTSIDE OF ROADBEDS (36" minimum depth)

Direct Bury _____ Boring _____ Other _____ Open Trench (explain) _____

VI. Work to start on or after _____ and to be completed on or before _____

Extent and location of tree trimming and/or clearing: _____

VII. The applicant in carrying on any and all of the work herein above mentioned or referred to in its application and in the Permit issued here fore, shall strictly conform to the terms of such Permit, and the regulations of the Wright County Right-of-Way Ordinance, as set forth herein together with the Special Provisions, all of which are made a part hereof. The applicant specifically agrees to be bound hereby. The applicant shall also comply with the regulations of all other governmental agencies for the protection of the public. The work shall be accomplished in a manner that will not be detrimental to the highway and that will safeguard the public.

Owner of Facility _____ (Company/Government Entity/Other) Contact _____ (Print Name)

Address _____ Phone _____

City _____ State _____ Zip _____ Fax/e-mail _____

Name of Agency _____ (Contractor/Engineering Firm) Contact _____ (Print Name)

Address _____ Phone _____

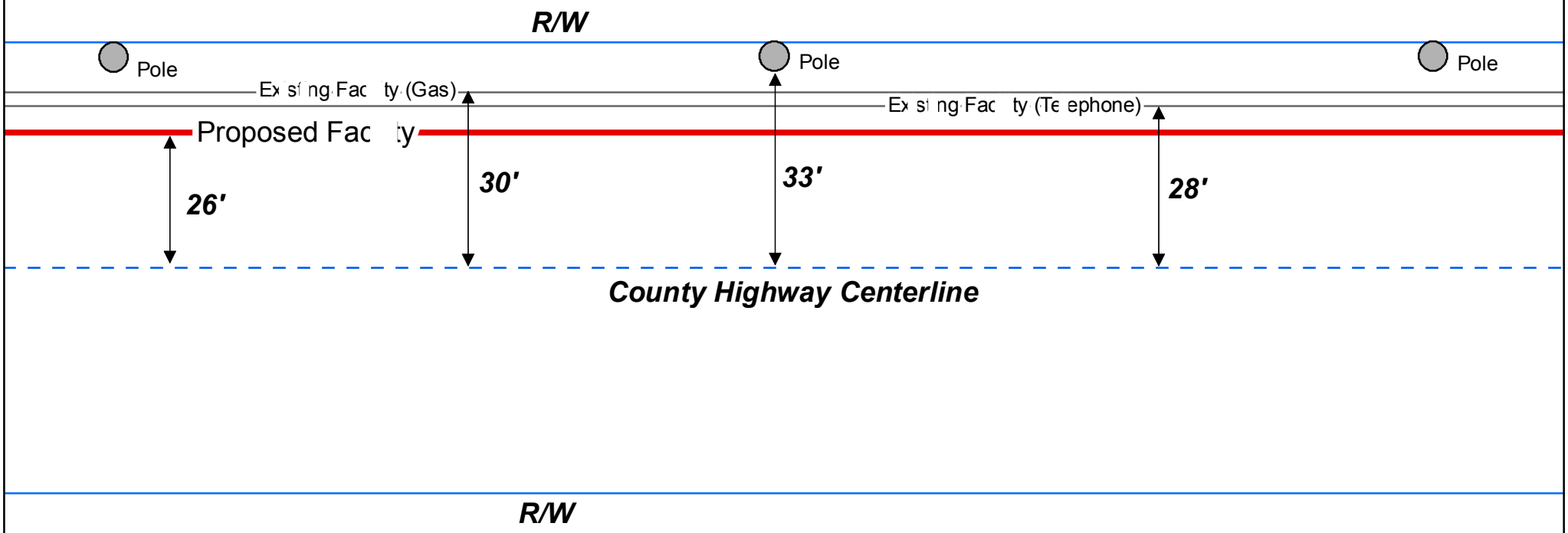
City _____ State _____ Zip _____ Fax/e-mail _____

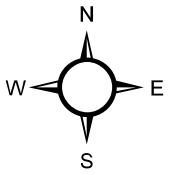
Signature _____ (Applicant's Signature) Date _____

LOCATION SKETCH

Show location of proposed facility in relation to the centerline of the county highway and other pertinent features such as nearest road intersection, other utilities, right of way line, shoulder line, curb line and edge of surfacing. The facility should also be referenced to adjacent landlines.

SAMPLE LOCATION SKETCH





RULES AND REGULATIONS OF BOARD OF COUNTY COMMISSIONERS FOR UTILITIES ON COUNTY HIGHWAYS.

Definition

Utility. Under this order "utility" shall mean and include all privately, publicly of co-operatively owned communication lines and facilities, any systems, lines, and facilities for the distribution and transmission of electrical energy, oil, gas, water, sewer, steam and other pipe lines, railways, ditches, flumes or other structures which under the laws of this State or the ordinance of any town or city may be constructed, placed or maintained across, along or on county highway right of way. Dependent upon the meaning intended in the context, "Utility" shall also mean the utility company, inclusive of any wholly owned subsidiary.

General

I. Except as otherwise permitted, utility construction and relocation on county highways right-of-way shall not be commenced until an application for a Permit has been made and such Permit granted. The Permit sketch shall show the location of the proposed utility with reference to county highway centerline. A copy of the sketch shall be provided for each copy of such Permit.

II. Burning or disking operations and/or the use of chemicals to control or kill trees, brush and other vegetation is prohibited without prior approval from the County Highway Engineer.

III. All waterways and lines of drainage shall remain operative.

IV. Wherever topsoil and sod are disturbed, they shall be replaced and maintained satisfactorily until the turf is established.

V. The utility facility and installation shall not interfere with any existing utility facilities on the county highway right of way.

VI. When necessary, barricades, warning devices and flag men shall be provided by the Utility during all phases of their construction and maintenance operations on county highway right of way.

VII. At the time of construction of the utility and at the times of subsequent maintenance, prior approval shall be obtained from the County Highway Engineer for the cutting and trimming of trees within the county highway right of way. Wherever trees are cut, the resulting stumps shall be removed unless otherwise provided in the Special Provisions of the Permit. Any holes caused by stump removal shall be backfilled, the area leveled and all materials associated therewith disposed of outside the county highway right of way. The utility shall advise the County Highway Engineer at least 48 hours in advance of its intent to start clearing and grubbing operations so that proper supervision can be provided.

VIII. The Utility shall notify the County Highway Engineer of its intent to perform service and maintenance operations, which will interfere with the flow of traffic on county highways, and shall obtain his approval prior to performing such operations. However, the Company may perform service and maintenance operations on county highways including opening and disturbing the surface of the right of way without prior approval in those instances where an emergency exists that is dangerous to the life of safety of the public and which requires immediate repair. The Utility shall take all necessary and reasonable safety measures to protect the traveling public and shall notify the County Highway Engineer at the earliest possible moment.

IX. If at any time **Wright County**, acting through its Board of County Commissioners, shall deem it necessary to make any improvements or changes on all or any part of the right of way of the county highway which affect a utility located on county highway right of way, then and in such events, the owner of the utility shall within 15 days after written notice from the Board of County Commissioners, or its authorized agent, proceed to alter, change, vacate or remove said utility from the county highway right of way so as to conform to said county highway changes and as directed by the Board of County Commissioners. Such work shall be done without any cost whatsoever to **Wright County** and shall be completed within the date specified in said written notice. The Utility shall assume all liability and save **Wright County** harmless from any and all claims of damage of any nature whatsoever occasioned by reason of not having removed said utility within the time specified in said notice.

X. The Utility shall assume all liability for, and save the County, its agents and employees, harmless from, any and all claims for damages, actions or causes of action arising out of the work to be done herein and the continuing uses by the Utility, including but not limited to the placing, constructing, reconstructing, maintaining and using of said utility under this application and Permit.

XI. The Board of County Commissioners may require the Utility, or its contractor, to furnish a deposit in the form of a certified check, a surety bond or corporate undertaking, in favor of the Board of County Commissioners of **Wright County**, for any expense incurred by the County in the repairing of damage to any portion of the county highway right of way caused by work performed under a Permit, including any out of the ordinary engineering supervision and inspection expense provided by the county. In those instances wherein a deposit is required, the amount of the deposit shall be specified in the Special Provisions of the Permit. If a check is furnished, any monies remaining over and above such expense shall be returned to the applicant.

XII. The Permit as issued does not in any way imply an easement on private property.

XIII. The installations shall be made in conformity with all applicable laws; regulations and codes covering said installations. All installations shall be made in conformity with regulations of governmental agencies for the protection of the public.

XIV. Upon completion of an installation, the Utility shall restore the county highway right of way to its original condition. The Utility shall then notify the office of the County Highway Engineer of the completion of the work so that inspection can be made to determine its acceptability.

Aerial

I. There shall be only a single pole line on the county highway right of way on either side of the centerline thereof.

II. Longitudinal installations on county highways shall normally be located in the outer five feet of the right of way. At crossing of the county highway, poles shall be placed at a minimum of thirty feet from the shoulder lines of the through roadbeds unless right of way widths are prohibitive to such location.

III. The location of all brace poles, anchors and anchor poles within the limits of the county highway right of way shall be approved by the County Highway Engineer.

IV. In those instances in which a Utility is issued a Permit or Permits for construction on both sides of the county highway right of way in a given area, such Permit is conditioned upon the Utility subsequently providing joint use to other Utilities upon reasonable terms mutually agreeable to the Utilities.

Underground

I. All crossings of the roadbeds of the county highways shall be made by boring inside a casing or carrier pipe, or by jacking, unless this procedure is modified in the Special Provisions of the Permit. The auger shall not lead the casing or carrier pipe by more than one inch. Open trenching shall be restricted to the area from 5 feet beyond the shoulder to the right of way line except as modified in the Special Provisions of the Permit.

II. When pipes with bells or flanges are installed, the crossings of the roadbeds of the county highway shall be made by boring inside a conduit as provided in the paragraph I of this section or jacking a conduit of a sufficient diameter to permit threading the carrier pipe through it.

III. All voids caused by jacking or boring shall be filled by pressure grouting. The grout material shall consist of sand-cement slurry of at least two sacks of cement per cubic yard and a minimum of water to assure satisfactory placement.

IV. The underground utilities shall be so installed as virtually to preclude any necessity for disturbing the roadbeds to perform maintenance operations.

V. Underground installations shall be accomplished without damaging or destroying the principal root structure of specimen trees.

WRIGHT COUNTY
DEPARTMENT OF HIGHWAYS

Work on Right of Way Permit

SPECIAL PROVISIONS

In accordance with the application herein, a Right of Way Work Permit is granted to _____ to place, construct and thereafter maintain _____ on or across, or under the right of way of County Highway Number _____ in the location shown on the sketch which is a part of said application, or in such location as may be specified by the Department of Highways in the Special Provisions hereof.

Approved _____
(Date)

Board of County Commissioners
Buffalo, Minnesota

By _____
(Authorized Signature)

Permit Number _____
Project Number _____
Letter of Credit Number _____
Surety Bond Number _____
Date of S. Bond or C. Check _____
Bank or Bonding Co. _____
Check No. _____ Date _____
Permit Fee _____

COPIES:

Ordinances/Other Policies Regarding Utility Placement

CHISAGO COUNTY
DEPARTMENT OF PUBLIC WORKS

Mail: 313 North Main Street, Room 400
Center City, MN, 55012-9863
Office: 31325 Oasis Road, Center City, MN, 55012-9863
Front Office (651) 213-8700
Facsimile Machine (651) 213-8772
Permit Department (651) 213-8705

Joe Triplett, P.E.
County Engineer
Dirctor of Public Works

Bruce Lind
Highway Superintendent

Cindy V. Johnson
Accountant

Scott Johnson
Sr.Engineering Technician

UTILITY PERMIT PROCEDURES

PROCEDURES AND SPECIFICATIONS FOR
CHISAGO COUNTY ROADWAYS

1. Any work within the road Right-Of-Way requires written permission from the Chisago County Public Works Department. This includes new utilities of any nature, length, upgrades or changes to existing utilities.

2. The utility permit may be obtained at the above address. We are located on CSAH 9 by CSAH 12.

3. The permit application form should be filled out completely. A separate application must be submitted for each roadway. **Each application must include a layout or sketch of the proposed work. Clearly define the nature of the work and its location in relation to the centerline of the roadway**. If field conditions require any revisions to the permitted work, approval must be received from this department prior to revised installation.

4. **Applicant must post a minimum $10,000.00 surety bond in favor of Chisago County Public Works.** The surety bond will be filed in the Public Works Department Office to cover other similar work by applicant in the future. The bond shall remain in effect for a minimum of 12 months following completion of all work within the road right-of-way.

5. Whenever work on the traveled portion of the roadway or shoulder is absolutely necessary, proper traffic control devices and procedures must be used. **A traffic control plan shall be submitted as part of the application and will be a condition of the permit approval process.** All traffic control devices , barricades, flashers, etc., shall be furnished by the applicant and shall be in accordance the most recent edition of the Minnesota Manuel on Uniform Traffic Control Devices, including the Temporary Traffic control zone layouts Field Manuel.

6. Temporary Traffic Control is required if for any reason your vehicle is stopped/parked on our roadway. Use Minnesota Manual on Uniform Traffic Control Devices for Temporary Traffic Control Zone Layouts (MN MUTCD). This document as well as the flagging Handbook and other documents are available on the Mn/Dot, Traffic Engineering Website at: Http://www.dot.state.mn.us/trafficeng/

7. Each application shall include a permit processing fee based upon the following criteria:
   $25.00 - Permitted work is a service off an existing mainline utility.
   $100.00 - Permitted work is a mainline installation, extension or upgrade under 0.5 miles.
   $200.00 - Permitted work is a mainline installation, extension or upgrade over 0.5 miles.
   $300.00 - Permitted work for New Developments (Sewer and Water)
   Please make checks payable to the “Chisago County Treasurer”

8. If for any reason the surface of the County roadway is damaged or removed, the surface shall be repaired to Chisago County Specification and accepted by Chisago County Public Works before bond is released. Chisago County Public Works is to be consulted prior to any repair or restoration.

9. All disturbed areas must be graded, top soiled, seeded (sod in yards) and mulched.

10. Please note that any damage to the surfaced roadways due to the loading, unloading or operating of equipment will be assessed to the applicant. Please help us to protect our highway surfaces

Thank you for your cooperation

Note: See Chisago County Right of Way Ordinance for the Management of Public Right of Way.

CHAPTER 429. - RIGHT-OF-WAY ADMINISTRATION[2]

Footnotes:

--- (**2**) ---

Editor's note— Ord. No. 96-Or-125, § 1, adopted Nov. 22, 1996, repealed former Ch. 429, §§ 429.10—429.70, which pertained to permitted excavations and obstructions. Ord. No. 96-Or-126, § 1, adopted Nov. 22, 1996, added provisions designated as a new Ch. 429 to read as herein set out. See the Code Comparative Table.

429.10. - Findings and purpose.

In order to provide for the health, safety and well-being of its citizens, as well as to insure the structural integrity of its streets and the use of the public rights-of-way, the city strives to keep its public rights-of-way in a state of good repair and free from unnecessary encumbrances. Although the general population bears the financial burden for the upkeep of the public rights-of-way, a primary cause for the early and excessive deterioration of its public rights-of-way is their frequent excavation by persons whose equipment or facilities are located therein as well as patching and restoration activities by persons undertaking adjacent construction activities.

Public right-of-way obstruction is a source of frustration for merchants, business owners and the general population which must avoid these obstructions or change travel plans because of them. Persons whose equipment or facilities are located within the public right-of-way are the primary cause of these frequent obstructions.

The city recognizes that it holds the public rights-of-way within its geographical boundaries as an asset in trust for its citizens. The city and other public entities have invested millions of dollars in public funds to build and maintain the public right-of-way. It also recognizes that some persons, by placing their equipment or facilities in the public right-of-way and charging the citizens of the city for goods and services delivered thereby, are using this property held for the public good. Although such services are often necessary or convenient for the citizens, such persons receive revenue and/or profit through their use of public property.

In response to the foregoing facts, the city hereby enacts new Chapters 429 and 430 of the Minneapolis Code of Ordinances relating to right-of-way permits and administration, together with an ordinance making necessary revisions to other Code provisions. These ordinances impose reasonable regulations on the placement and maintenance of equipment or facilities currently within its public rights-of-way or to be placed therein at some future time. Under these ordinances, persons disturbing and obstructing the public rights-of-way will bear a fair share of the financial responsibility for their integrity. Finally, these ordinances provide for recovery of out-of-pocket and projected costs from persons using the public rights-of-way. (96-Or-126, § 1, 11-22-96; 2000-Or-025, § 1, 4-21-00; Ord. No. 2009-Or-021, § 1, 3-6-09)

429.20. - Definitions.

The following definitions apply in both Chapters 429 and 430 of the Minneapolis Code of Ordinances, (hereafter, "Chapters 429 and 430" or "these ordinances"). References hereafter to

"sections" are, unless otherwise specified, references to sections in the Minneapolis Code of Ordinances. Defined terms remain defined terms whether or not capitalized.

Abandoned facility means a facility, no longer in service or physically disconnected from a portion of the operating facility, or from any other facility, that is in use or still carries service. A facility is not abandoned unless declared so by the right-of-way user.

Applicant means any person requesting permission to excavate, disturb or obstruct a right-of-way.

City means the City of Minneapolis, Minnesota.

City management cost means the actual costs incurred by the city for public rights-of-way management; including but not limited to costs associated with registering applicants; issuing, processing, and verifying right-of-way permit applications; creating information and maintaining information on a Geographical Information System ("GIS") mapping system; inspecting job sites and restoration projects; maintaining, supporting, protecting, or moving user equipment or facilities during public right-of-way work; determining the adequacy of right-of-way restoration; restoring work inadequately performed after providing notice and the opportunity to correct the work; and revoking right-of-way permits and performing all of the other tasks required by Chapters 429 and 430, including other costs the city may incur in managing the provisions of this chapter.

City engineer means the city engineer or the city engineer's designee.

Congested right-of-way means a crowded condition in the subsurface of the public right-of-way that occurs when the maximum lateral spacing between existing underground facilities does not allow for construction of new underground facilities without using hand digging to expose the existing lateral facilities in conformance with Minnesota Statutes, Section 216D.04, Subd. 3, over a continuous length in excess of five hundred (500) feet.

Construction security means any of the following forms of security provided at the city engineer's option:

(1) Individual project bond.

(2) Cash deposit.

(3) Security, of a form listed or approved under Minnesota Statutes, Section 15.73, Subd. 3.

(4) Letter of credit, in a form acceptable to the city.

(5) Self-insurance, in a form acceptable to the engineer.

(6) A blanket bond for projects within the city, or other form of construction bond, for a time specified and in a form acceptable to the city.

Degradation means a decrease in the useful life of the right-of-way caused by excavation in or disturbance of the right-of-way, resulting in the need to reconstruct such right-of-way earlier than would be required if the excavation did not occur.

Degradation cost means the cost to achieve a level of restoration as determined by the city engineer at the time the permit is issued. When applicable, the cost may not exceed the maximum restoration shown in plates 1 to 13, which are set forth in parts 7819.9900 to 7819.9950.

Degradation fee means the estimated fee established at the time of permitting by the city engineer to recover costs associated with the decrease in the useful life of the right-of-way caused by the excavation, and which equals the degradation cost.

Delay penalty is the penalty imposed as a result of unreasonable delays in right-of-way excavation, obstruction, patching, or restoration as established by permit.

Disruptive cost is the penalty imposed as the result of the adverse impact on city citizens and others who are required to alter travel routes and times resulting from right-of-way obstructions. When applied to utility services, the disruptive cost is the delay penalty.

Downtown business district means that portion of the City of Minneapolis lying within and bounded by the following: On the east by the Mississippi River and Interstate 35W; on the south and west by Interstate 94; and on the north by Plymouth Avenue North.

Emergency means a condition that poses a clear and immediate danger to life or health, or of a significant loss of property, or requires immediate repair or replacement in order to restore service to a customer.

Equipment means any tangible asset used to install, repair, or maintain facilities in any right-of-way.

Excavate or *excavation* means to dig into or in any way remove or physically disturb or penetrate any part of a right-of-way.

Excavation permit means the permit which, pursuant to Chapters 429 and 430, must be obtained before a person may excavate a right-of-way. An excavation permit allows the holder to excavate that part of the right-of-way described in such permit.

Excavation permit fee means money paid to the city by an applicant to cover the costs as provided in Chapter 430.

Facility or *facilities* means any tangible asset in the right-of-way.

Five-year project plan shows projects adopted by the city for construction within the next five (5) years.

High-density corridor means a designated portion of the public right-of-way within which telecommunications right-of-way users having multiple and competing facilities may be required to build and install facilities in a common conduit system or other common structure.

Local representative means the person or persons, or designee of such person or persons, authorized by a registrant to accept service and to make decisions for that registrant regarding all matters within the scope of Chapters 429 and 430.

Minnesota Rules means Minnesota Rules as published by the Revisor of Statutes as they existed on June 1, 1999 whether or not they are currently in force.

Obstruct means to place any tangible object in a right-of-way so as to hinder free and open passage over that or any part of the right-of-way.

Obstruction permit means the permit which, pursuant to Chapters 429 and 430, must be obtained before a person may obstruct a right-of-way.

Obstruction permit fee means money paid to the city by a permittee to cover the costs as provided in Chapter 430.

Patch or *patching* means a method of pavement replacement that is temporary in nature. A patch consists of:

(1) The compaction of the subbase and aggregate base.

(2) The replacement, in kind, of the existing pavement for a minimum of two (2) feet beyond the edges of the excavation in all directions.

A patch is considered full restoration only when the pavement is included in the city's five-year project plan.

Pavement means any type of improved surface that is within the public right-of-way and that is paved or otherwise constructed with bituminous, concrete, aggregate, or gravel.

Permittee means any person to whom a permit to excavate or obstruct a right-of-way has been granted by the city under Chapter 429 or 430.

Person means an individual or entity, subject to the laws and rules of this state, however organized, whether public or private, whether domestic or foreign, whether for profit or nonprofit, and whether natural, corporate, or political.

Examples include:

a. A business or commercial enterprise organized as any type or combination of corporation, limited liability company, partnership, limited liability partnership, proprietorship, association, cooperative, joint venture, carrier or utility, and any successor or assignee of any of them.

b. A social or charitable organization.

c. Any type or combination of political subdivision, which includes the executive, judicial, or legislative branch of the state, a local government unit, or a combination of any of them.

Probation means the status of a person that has not complied with the conditions of Chapters 429 and 430.

Probationary period means one (1) year from the date that a person has been notified in writing that they have been put on probation.

Registrant means any person who:

(1) Has or seeks to have its equipment or facilities located in any right-of-way, or

(2) In any way occupies or uses, or seeks to occupy or use, the right-of-way or any equipment or facilities located in the right-of-way.

Registration fee means money paid to the city to cover the cost associated with registration.

Restore or *restoration* means the process by which an excavated right-of-way and surrounding area, including pavement and foundation, is returned to the same condition that existed before excavation.

Restoration cost means the amount of money paid to the city by a permittee to cover the cost of restoration.

Right-of-way or *public right-of-way* means the area in, on, below, or above a public roadway, highway, street, cartway, bicycle lane and public sidewalk in which the city has an interest, including other dedicated rights-of-way for travel purposes and utility easements of the city. A right-of-way does not include the airwaves above a right-of-way with regard to cellular or other nonwire telecommunications or broadcast service.

Right-of-way permit means either the excavation permit or the obstruction permit, or both, depending on the context, required by Chapters 429 and 430.

Right-of-way user means:

(1) A telecommunications right-of-way user as defined by Minnesota Statutes, Section 237.162, Subd. 4; or

(2) A person owning or controlling a facility in the public right-of-way that is used or is intended to be used for providing utility service and who has a right under law, franchise, or ordinance to use the public right-of-way.

Service or *utility service* includes:

(1) Those services provided by a public utility as defined in Minnesota Statutes 216B.02, Subds. 4 and 6.

(2) Services of a telecommunications right-of-way user, including transporting of voice or data information.

(3) Services of a cable communications system as defined in Minnesota Statutes Chapter 238.

(4) Natural gas or electric energy or telecommunications services provided by the city.

(5) Services provided by a cooperative electric association organized under Minnesota Statutes, Chapter 308A.

(6) Water, sewer, steam, cooling or heating services.

Supplementary application means an application made to excavate or obstruct more of the right-of-way than allowed in, or to extend, a permit that had already been issued. (96-Or-126, § 1, 11-22-96; 97-Or-068, § 1, 8-8-97; 2000-Or-025, § 2, 4-21-00; Ord. No. 2009-Or-021, § 2, 3-6-09)

429.30. - Administration.

The city engineer of the department of public works shall be the principal city official responsible for the administration of the rights-of-way, right-of-way permits, and the ordinances related thereto. The city engineer may delegate any or all of the duties hereunder. (96-Or-126, § 1, 11-22-96)

429.40. - Utility coordination committee.

There is hereby created a utility coordination committee. This committee shall be voluntary and advisory to the city engineer. It may be composed of any registrants or other individuals that wish to assist the city in obtaining information and by making recommendations regarding ways to take greater responsibility for the right-of-way, and to improve the process of performing construction work therein. The city engineer shall determine the size of such committee, make all appointments to such committee, and establish rules governing such committee. (96-Or-126, § 1, 11-22-96; 2000-Or-025, § 3, 4-21-00)

429.50. - Registration and right-of-way occupancy.

Each person who occupies, uses, or seeks to occupy or use, the right-of-way or any equipment or facility located in the right-of-way, or who has, or seeks to have, equipment or facility located in any right-of-way must register with the city engineer. Registration will consist of providing application information as required by the city engineer and payment of any registration fee.

No person may construct, install, repair, remove, relocate, or perform any other work on, or use any equipment or facility or any part thereof located in any right-of-way.

Nothing herein or in Chapter 430 shall be construed to repeal or amend the provisions of a city ordinance permitting persons to plant or maintain boulevard plantings or gardens or in the area of right-of-way between their property and the street curb. Persons planting or maintaining boulevard plantings or gardens shall not be deemed to use or occupy the right-of-way, and shall not be required to obtain any permits or satisfy any other requirements for planting or maintaining such boulevard plantings or gardens under this chapter or Chapter 430. (96-Or-126, § 1, 11-22-96; 97-Or-068, § 2, 8-8-98; 2000-Or-025, § 4, 4-21-00)

429.60. - Enforcement.

Failure to comply with the provisions of this chapter may result in permit cancellation, administrative fines, restrictions, or penalties as provided in Chapters 2, 429 and 430 of this Code. (2003-Or-095, § 1, 7-11-03)

429.70. - Registration information.

The information provided to the city engineer at the time of registration shall include, but not be limited to:

(1) Each registrant's name, Gopher State One-Call registration certificate number, address and e-mail address if applicable, and telephone and facsimile numbers.

(2) The name, address and e-mail address, if applicable, and telephone and facsimile numbers of a local representative. The local representative shall be available at all times. Current information regarding how to contact the local representative in an emergency shall be provided at the time of registration.

(3) A certificate of insurance or self-insurance acceptable to the city:

a. Verifying that an insurance policy has been issued to the registrant by an insurance company licensed to do business in the State of Minnesota, or is covered by self-insurance which provides the city with protections equivalent to that of a Minnesota licensed insurance company, legally independent from registrant.

b. Verifying that the registrant is insured against claims for personal injury, including death, as well as claims for property damage arising out of the:

1. Use and occupancy of the right-of-way by the registrant, its officers, agents, employees and permittees, and

2. Placement and use of equipment or facilities in the right-of-way by the registrant, its officers, agents, employees and permittees, including, but not limited to, protection against liability arising from completed operations, damage of underground facilities and collapse of property.

c. Naming the city as an additional insured as to whom the coverages required herein are in force and applicable and for whom defense will be provided as to all such coverages.

d. Requiring that the city engineer be notified thirty (30) days in advance of cancellation of the policy or material modification of a coverage term.

e. Indicating comprehensive liability coverage, automobile liability coverage and umbrella coverage, workers' compensation in amounts established by the director of the office of risk management in amounts sufficient to protect the city and carry out the purposes and policies of Chapters 429 and 430.

(4) If the person is a corporation, a copy of the certificate required to be filed under Minnesota Statutes, Section 300.06 as recorded and certified by the secretary of state.

(5) A copy of the person's order granting a certificate of authority from the Minnesota Public Utilities Commission, or other applicable state or federal agency, where the person is lawfully required to have such certificate from said commission or other state or federal agency.

The registrant shall keep all of the information listed above current at all times by providing to the city engineer information of changes within fifteen (15) days following the date on which the registrant has knowledge of any change. (96-Or-126, § 1, 11-22-96; 97-Or-068, § 3, 8-8-97; 2000-Or-025, § 6, 4-21-00)

429.80. - Reporting obligations.

Each registrant shall, at the time of registration and by December 1 of each year, file a construction and major maintenance plan with the city engineer. Such plan shall be submitted using a format designated by the city engineer and shall contain the information determined by the city engineer to be necessary to facilitate the coordination and reduction in the frequency of excavations and obstructions of rights-of-way.

The plan shall include, but not be limited to, the following information:

(1) The locations and the estimated beginning and ending dates of all projects to be commenced during the next calendar year (in this section, a "next-year project").

(2) To the extent known, the tentative locations and estimated beginning and ending dates for all projects contemplated for the four (4) years following the next calendar year (in this section, a "five-year project").

The term "project" in this section shall include both next-year projects and five-year projects.

By January 1 of each year the city engineer will have available for inspection in its offices a composite list of all projects of which it has been informed in the annual plans. All registrants are responsible for keeping themselves apprised of the current status of this list.

Thereafter, by February 1, each registrant may change any project in its list of next-year projects, and must notify the city engineer and all other registrants of all such changes in said list. Notwithstanding the foregoing, a registrant may at any time join in a next-year project of another registrant that was listed by the other registrant.

Notwithstanding the foregoing, the city engineer may, for good cause shown, allow a registrant to submit additional next-year projects. Good cause includes, but is not limited to, the criteria set forth in Chapter 430 concerning the discretionary issuance of permits. (96-Or-126, § 1, 11-22-96; 97-Or-068, § 4, 8-8-97; 2000-Or-025, § 7, 4-21-00)

429.90. - Mapping data.

Pursuant to the authority of Minnesota Rules, Part 7819.4000 and 7819.4100, each registrant and permittee shall provide mapping information as required by this chapter, when applicable to utility services.

Within six (6) months of the acquisition, installation, or construction of additional equipment or any relocation, abandonment, or disuse of existing equipment, each registrant shall supplement the mapping information required herein.

A person wishing to undertake a project within the public right-of-way shall submit a right-of-way permit application which contains the following information:

(1) Location and approximate depth of applicant's mains, cables, conduits, switches, and related equipment and facilities, with the location based on:

   a. Offsets from property lines, distances from the centerline of public right-of-way, and the curb lines as determined by the city engineer.

   b. Coordinates derived from the coordinate system being used by the city engineer.

   c. Any other system agreed upon by the right-of-way user and the city engineer.

(2) The type and size of the utility facilities.

(3) A description showing above ground appurtenances.

(4) A legend explaining symbols, character, abbreviations, scale and other data shown on the map.

(5) Any facilities to be abandoned, if applicable, in conformance with Minnesota Statutes, Section 216D.04, Subd. 3.

The permittee shall submit "as built" drawings reflecting any subsequent changes and variations from the information provided under this section.

The right-of-way user is not required to provide or convey mapping information or data in a format or manner that is different from that which it currently utilizes and maintains. The right-of-way user shall, however, include the cost to convert the data furnished by the right-of-way user to a format currently in use by the city engineer as part of the permit application fee. These data conversion costs, unlike other costs that make up permit fees, may be included in the permit fee after the permit application process is completed and shall be immediately due to the city upon the ascertainment of the cost and notice of the fee to the applicant. Any permit for which such fee has not been paid within thirty (30) days of notice from

the city engineer may upon written notice be revoked. The city engineer shall not issue any other permits to the registrant related to any city right-of-way until such fee is paid.

At the request of the city engineer, a right-of-way user shall provide existing data on its existing facilities within the public right-of-way in the form maintained by the user at the time the request was made, if available.

At the request of any registrant, any information requested by the city engineer which qualifies as a "trade-secret" under Minnesota Statutes, Section 13.37(b) shall be treated as trade secret information as detailed therein. (96-Or-126, § 1, 11-22-96; 97-Or-068, § 5, 8-8-97; 2000-Or-025, § 8, 4-21-00; Ord. No. 2009-Or-021, § 3, 3-6-09)

429.100. - Location of facilities.

(a) *Undergrounding.* Unless otherwise permitted by an existing franchise, Section 99.860 of the Minneapolis Code of Ordinances or Minnesota Statutes, Section 216B.36, or unless existing above-ground facilities are used, the installation of new facilities and replacement of old facilities shall be done underground or contained within buildings or other structures in conformity with applicable codes.

The city engineer may approve the above ground location and installation of the following if they do not create any unreasonable safety, maintenance, or aesthetic concerns, or conflict with the current use of the right-of-way. In approving the above ground locations, the city engineer shall consider the size of the proposed facility in relation to the proposed site.

(1) New poles and new pole lines under six hundred (600) feet in length which do not conflict with existing or planned trees or other facilities.

(2) New ancillary facilities and appurtenances to existing facilities, such as transformers, meters, junction boxes and splice boxes.

(3) New junction boxes for existing underground utility service to individual locations and homes.

(4) New communication towers, antennae, and related new facilities and appurtenances which have already received zoning and any other necessary approvals.

(5) The repair or placement of existing above ground facilities with similar new facilities.

(6) Any other new facilities which the city engineer has determined that, due to expense, nature, or function cannot be placed underground.

(b) *Locations.* The city engineer shall assign specific locations within the right-of-way, or any particular segment thereof as may be necessary, for each type of facility that is or, pursuant to current technology, that the city engineer expects will someday be located within the right-of-way. All excavation, obstruction, or other permits issued by the city engineer involving the installation or replacement of facilities shall designate the proper corridor for the facilities.

(c) *Nuisance.* One year after the passage of this chapter, any equipment or facility found in a right-of-way that has not been registered shall be deemed to be a nuisance. The city may exercise any remedies or rights it has at law or in equity, including, but not limited to, abating the nuisance taking possession of the equipment or facilities and restoring the right-of-way to a useable condition.

(d) *Limitation of space.* The city engineer shall have the power to prohibit or limit the placement of new or additional facilities at specific locations within the right-of-way if there is insufficient space to accommodate all of the requests of registrants or persons to occupy and use the right-of-way. In making such decisions, the city engineer shall strive to the extent possible to accommodate all existing and potential users of the right-of-way, but shall be guided primarily by considerations of the public interest, the public's needs for the particular utility service, the condition of the right-of-way, the time of year with respect to essential utilities, the protection of existing facilities in the right-of-

way, and future city plans for public improvements and development projects which have been determined to be in the public interest. (96-Or-126, § 1, 11-22-96; 97-Or-068, § 6, 8-8-97; 2000-Or-025, § 9, 4-21-00; 2000-Or-061, § 1, 7-14-00)

429.110. - Relocation of existing facilities.

A right-of-way user shall promptly and at its own expense, with due regard for seasonal working conditions, permanently remove and relocate its facilities in the right-of-way when it is necessary to prevent interference, and not merely for convenience of the city, in connection with:

(1) A present or future city use of the right-of-way for a public project;

(2) The public health or safety; or

(3) The safety and convenience of travel over the right-of-way.

Notwithstanding the foregoing, a right-of-way user is not required to remove or relocate its facilities from a right-of-way that has been vacated in favor of a nongovernmental entity unless and until the reasonable costs to do so are first paid to the right-of-way user. (96-Or-126, § 1, 11-22-96; 97-Or-068, § 7, 8-8-97; 2000-Or-025, §§ 10, 11, 4-21-00)

429.120. - Pre-excavation facility location.

In addition to complying with the requirements of Minnesota Statutes, Section 216D.01-.09 ("One call excavation notice system") before the start date of any right-of-way excavation, each registrant who has facilities located in the area to be excavated shall be responsible to mark the horizontal placement of all said facilities. To the extent its records contain such information, each registrant shall provide information regarding the approximate vertical location of their facilities to excavators upon request. Nothing in this subsection is meant to limit the rights, duties and obligations of the facility owners or excavators as set forth in Minnesota Statutes, Sections 216D.01-.09.

Any right-of-way user whose facilities are less than twenty (20) inches below a concrete or asphalt surface shall notify and work closely with the excavation contractor in an effort to establish and mark the exact horizontal and vertical location of its facility and the best procedure for excavation. (96-Or-126, § 1, 11-22-96; 2000-Or-025, § 12, 4-21-00; 2000-Or-061, § 2, 7-14-00)

429.130. - Damage to other facilities.

When the city engineer performs work in the right-of-way and finds it will be necessary to maintain, support, or relocate a person's facilities in order to protect them, the city engineer shall order such person to maintain, support or relocate their facilities and, upon failure of such person to comply with the order to maintain, support of relocate the facilities, the city engineer may assess the costs associated therewith that will be billed to that person and must be paid within thirty (30) days from the date of billing.

Each person shall be responsible for the cost of repairing any equipment or facility in the right-of-way that it or its equipment or facilities damages.

Each person shall be responsible for the cost of repairing any damage to the equipment or facilities of another registrant person caused during the city's response to an emergency occasioned by that person's equipment or facilities. (96-Or-126, § 1, 11-22-96; 97-Or-068, § 8, 8-8-97; 2000-Or-025, § 13, 4-21-00)

429.140. - Right-of-way vacation.

If the city vacates a right-of-way which contains the facilities of a registrant, and if the vacation does not require the relocation of registrant's facilities, the city shall reserve, to and for itself and all registrants having facilities in the vacated right-of-way, the right to install, maintain and operate any equipment or facilities in the vacated right-of-way and to enter upon such right-of-way at any time for the purpose of reconstructing, inspecting, maintaining or repairing the same.

If the vacation requires the relocation of registrant facilities; and

(1) If the vacation proceedings are initiated by the right-of-way user, the right-of-way user must pay the relocation costs; or

(2) If the vacation proceedings are initiated by the city for a public project, the right-of-way-user must pay the relocation costs unless otherwise agreed to by the city and the right-of-way user.

(3) If the vacation proceedings are initiated for the purpose of benefiting a person other than the right-of-way user, the benefitted person must pay relocation costs. (96-Or-126, § 1, 11-22-96; 2000-Or-025, § 14, 4-21-00)

429.150. - Indemnification and liability.

By reason of the acceptance of a registration or the grant of a right-of-way permit, the city does not assume any liability:

(1) For injuries to persons, damage to property, or loss of service claims by parties other than the registrant or the city; or

(2) For claims or penalties of any sort resulting from the installation, presence, maintenance, or operation of equipment or facilities by registrants or activities of registrants.

By accepting a permit under Chapters 429 and 430, a registrant is required to defend, indemnify, and hold the city whole and harmless from liability or claims of liability for both bodily injury or death to persons, or for property damage, in which the claim:

(1) Alleges a negligent or otherwise wrongful act or omission of the registrant or its employee, agent or independent contractor in installing, maintaining, or repairing its equipment or facilities, and alleges that the city is liable, without alleging any independent negligent, or otherwise wrongful act omission on the part of the city; or

(2) Is based on the city's neglect or otherwise wrongful act or omission in issuing the permit or in failing to properly or adequately inspect or enforce compliance with a term, condition, or purpose of the permit granted to the registrant.

The registrant further agrees that it will not bring, nor cause to be brought, any action, suit or other proceeding claiming damages, or seeking any other relief against the city for any claim nor for any award arising out of the presence, installation, maintenance or operation of its or facilities, or any activity undertaken in a public right-of-way, whether or not the act or omission complained of is authorized, allowed or prohibited by a right-of-way permit.

The foregoing does not indemnify the city for its own negligence except for losses or claims occasioned by the negligent or otherwise wrongful act or omission of the city to the extent authorized in part (2) of this section regarding the issuance of a permit or the inspection or enforcement of compliance with the permit, or when otherwise provided in an applicable franchise agreement.

This section is not, as to third parties, a waiver of any defense or immunity otherwise available to the registrant or to the city; and the registrant, in defending any action on behalf of the city, shall be entitled to

assert in any action every defense or immunity that the city could assert in its own behalf. (96-Or-126, § 1, 11-22-96; 97-Or-068, § 9, 8-8-97; 2000-Or-025, § 15, 4-21-00)

429.160. - Future uses.

In placing any equipment or facility, or allowing it to be placed, in the right-of-way, the city is not liable for any damages caused thereby to any registrant's equipment or facility that is already in place. No person is entitled to rely on the provisions of Chapter 429 or 430, and no special duty is created as to any person. Chapters 429 and 430 are enacted to protect the general health, welfare and safety of the public at large. (96-Or-126, § 1, 11-22-96; 2000-Or-025, § 16, 4-21-00)

429.170. - Discontinued operations.

A registrant who has determined to discontinue all or a portion of its operations in the city must provide information satisfactory to the city engineer that the registrant's obligations for its facilities in the right-of-way under this chapter and Chapter 430 have been lawfully assumed by another registrant or the city. (96-Or-126, § 1, 11-22-96; 2000-Or-025, § 17, 4-21-00)

429.175. - Abandoned facilities.

Any registrant who has abandoned facilities in any right-of-way shall remove it from that right-of-way if required in conjunction with other right-of-way repair, excavation, or construction, or as otherwise required by law, unless this requirement is waived by the city engineer. (2000-Or-025, § 18, 4-21-00)

429.180. - Reservation of regulatory and police powers.

The city by the granting of a right-of-way permit, or by registering a person under section 429.50, does not surrender or to any extent lose, waive, impair, or lessen the lawful powers and rights, which it has now or may be hereafter vested in the city under the Constitution and statutes of the State of Minnesota and under the Charter of the City of Minneapolis to regulate the use of the right-of-way by the permittee; and the permittee by its acceptance of a right-of-way permit or of registration under section 429.50 must agree that all lawful powers and rights, regulatory power, or police power, or otherwise as are or the same may be from time to time vested in or reserved to the city, shall be in full force and effect and subject to the exercise thereof by the city at any time. A permittee or registrant is deemed to acknowledge that its rights are subject to the regulatory and police powers of the city to adopt and enforce general ordinances necessary to the safety and welfare of the public and is deemed to agree to comply with all applicable general laws and ordinances enacted by the city pursuant to such powers.

Any conflict between the provisions of a registration or of a right-of-way permit and any other present or future lawful exercise of the city's regulatory or police powers shall be resolved in favor of the latter. (96-Or-126, § 1, 11-22-96)

429.190. - Severability.

If any section, subsection, sentence, clause, phrase, or portion of this chapter or Chapter 430 is for any reason held invalid or unconstitutional by any court or administrative agency of competent jurisdiction, such portion shall be deemed a separate, distinct, and independent provision and such holding shall not affect the validity of the remaining portions thereof. If a regulatory body or a court of competent jurisdiction should determine by a final, non-appealable order that any permit, right or registration issued under Chapters 429 and 430 or any portions of these chapters is illegal or unenforceable, then any such permit, right or registration granted or deemed to exist hereunder shall be considered as a revocable permit with a mutual right in either party to terminate without cause upon giving sixty (60) days written notice to the other. The requirements and conditions of such a revocable permit shall be the same requirements and conditions as set forth in the permit, right or registration, respectively, except for conditions relating to the term of the permit and the right of termination. If a permit, right or registration shall be considered a revocable permit as provided herein, the permittee must acknowledge the authority of the city council to issue such revocable permit and the power to revoke it. (96-Or-126, § 1, 11-22-96)

429.200. - Franchise holder exemption.

In the instance of a person holding a franchise agreement with the city, and a conflict in language occurs between the franchise and Chapters 429 and/or 430, the conflict shall be resolved by honoring the terms of the franchise. Further, in the instance of a person holding a franchise agreement with the city, which provides for the payment of franchise fees to the city, such person shall be exempt from paying any other fees or costs except administrative fines as provided for in Chapter 2 and the disruptive cost as required by Chapter 430. (96-Or-126, § 1, 11-22-96; 2000-Or-025, § 19, 4-21-00; 2003-Or-095, § 2, 7-11-03)

CHAPTER 430. - RIGHT-OF-WAY PERMITS

430.10. - Purpose.

In order to provide for the health, safety and well-being of its populace as it uses the rights-of-way, as well as to ensure the structural integrity of its rights-of-way, the city desires to minimize the number of obstructions and excavations taking place thereon.

The purpose of this chapter is to regulate obstructions of and excavations in the rights-of-way by providing, among other things, for the issuance of permits granting authority to obstruct or excavate therein and by providing for the subsequent restoration of the rights-of-way.

The findings and purpose statement in Chapter 429 is hereby incorporated in and adopted as part of this chapter. (96-Or-127, § 1, 11-22-96)

430.20. - Definitions.

The definitions found in section 429.20 of the Minneapolis Code of Ordinances (hereinafter, "Code") apply to this chapter. (96-Or-127, § 1, 11-22-96)

430.30. - Permit requirement.

Except as otherwise provided in the Code, no person may obstruct or excavate any right-of-way without first having obtained the appropriate right-of-way permits from the city engineer to do so.

(1) *Excavation permit.* An excavation permit is required to excavate that part of the right-of-way described in such permit and to hinder free and open passage over the specified portion of the right-of-way by placing equipment or facilities described therein, to the extent and for the duration specified therein.

(2) *Obstruction permit.* An obstruction permit is required to hinder free and open passage over the specified portion of right-of-way by placing equipment described therein on the right-of-way for the duration specified therein.

(3) *Street use permit.* A street use permit is a form of obstruction permit required for placing dumpsters, as defined herein, and storage containers, as defined herein, in the public right-of-way. A street use permit for a dumpster, or for a storage container, is subject to the following additional requirements for the owners and/or operators of the dumpster or storage container as conditions of permitting the dumpster or storage container to be in the right-of-way:

a. The dumpster or storage container must be placed in front of or adjacent to the property where the street use permit is issued and the address of which is shown on the face of the permit, unless some other location is specifically designated in the permit.

b. The dumpster or storage container shall not be located (as the following terms are defined in Title 18 of this Code):

1. On a sidewalk or on a boulevard between a sidewalk and a roadway;

2. In front of a public or private driveway or alley or within five (5) feet of the end of radius or side slope of any public or private driveway or alley with any street or highway;

3. Within an intersection;

4. Within ten (10) feet of a fire hydrant;

5. On a crosswalk;

6. Within twenty (20) feet of a crosswalk at an intersection;

7. Between a safety zone and the adjacent curb or within thirty (30) feet of points on the curb immediately opposite the ends of a safety zone unless a different length is indicated by signs or markings;

8. Within a designated or marked bus stop;

9. Within fifty (50) feet of the nearest rail of a railroad crossing;

10. Within twenty (20) feet of the driveway entrance to any fire station and on the side of a street opposite the entrance to any fire station within seventy-five (75) feet of said entrance when properly signposted;

11. Alongside or opposite any street excavation or obstruction when such placement would obstruct traffic;

12. Along the curb adjacent to any school property unless the dumpster is placed for the benefit of the school and with the explicit written permission of the school;

13. Upon or under any bridge or approach or other elevated structure upon a street or highway or within a street or highway tunnel unless specifically called out and allowed

by the terms of the written permit in the specific place to be used by metes and bounds description;

14. In a location that has the effect of blocking reasonable access to a fire escape or to the exit from any building;

15. At any place on any pathway, sidewalk area for pedestrians or other portion of any public property which is not intended for the use of vehicles for a public roadway;

16. At any place where marked and signed fire lanes have been established by authorization of the city council; and

17. At any place where official signs prohibit the stopping, standing or parking of vehicles, unless specially called out and allowed by terms of the written permit in the specific place to be used by metes and bounds description.

c. No person shall move a dumpster or storage container not owned by such person into any prohibited area or away from a curb to a distance that is unlawful.

d. Upon the declaration by the city of a snow emergency, the owner and/or operators of any dumpster or storage container located in a street or other right-of-way subject to the snow emergency shall remove the dumpster or storage container until the street is plowed curb to curb.

e. No person shall place or cause to be placed in the public street any dumpster or storage container, without first attaching on the front and rear of the dumpster or storage container, two (2) strips of reflective material of at least twenty-five (25) square inches each. Such reflective material shall be white in color and shall be mounted at a height of not less than twelve (12) inches nor more than twenty-four (24) inches from the top of the dumpster or storage container and shall be so designed and maintained as to be visible at night from a distance of three hundred (300) feet from the dumpster or personal storage container.

f. A "dumpster" for the purposes of this section is a container that is not a vehicle as defined in Title 18 of this Code, that is intended to receive building debris and other permissible solid waste and/or recyclable materials from nearby construction projects, building renovation projects, building service projects, or re-location projects as a part of the process of actively transferring waste or recyclable materials away from the site.

g. A "storage container" for the purposes of this section is a storage container that is contracted to be delivered to a residence and used to store personal items and then picked up by a hauler and stored at a facility until it is requested to be delivered back to a residence so that the personal items may be retrieved, or a storage container that is used for the purpose of moving personal items from or to a residence as part of a change of residence.

h. The city engineer or designee may grant an exception to these additional requirements for dumpster obstruction permits and storage container obstruction permits upon making findings that: (1) an exception is necessary to prevent substantial hardship to the applicant or a customer of the applicant, (2) an exception will not unreasonably subject the public to harm, (3) an exception is in the public interest, and (4) practical difficulties with complying with the additional requirements exist because of conditions or circumstances unique to the individual project.

i. The city engineer, the director of regulatory services, the planning director, the licensing official and the chief of police and their designees may enforce these additional requirements for street use permits and may delegate enforcement authority therefor to any city employee.

j. Permits pursuant to this section are subject to the requirements of Section 91.20 of this Code.

k. Dumpsters must be covered during all non-work hours so as to prevent the escape of any particulates.

No person may excavate or obstruct the right-of-way beyond the date or dates specified in the permit unless:

(1) Such person makes a supplementary application for another right-of-way permit before the expiration of the initial permit.

(2) A new permit or permit extension is granted.

Permits issued under this chapter shall be conspicuously displayed at all times at the indicated work site and shall be available for inspection by the city engineer or other city personnel acting in the line of duty. Street use permits shall be attached to the exterior of the dumpster or storage container. (96-Or-127, § 1, 11-22-96; 97-Or-069, § 1, 8-8-97; 2000-Or-026, § 1, 4-21-00; 2014-Or-114, § 1, 12-5-14)

430.35. - Enforcement.

Failure to comply with provisions of this chapter may result in permit cancellation, administrative fines, restrictions or penalties as provided in Chapters 2, 429 and 430 of this Code. (2003-Or-096, § 1, 7-11-03)

430.40. - Permit applications.

Application for a permit is made to the city engineer.

Right-of-way permit applications shall contain, and will be considered complete only upon compliance with the requirements of the following provisions:

(1) Registration with the city engineer pursuant to Chapter 429.

(2) Submission of a completed permit application form, including all required attachments, and scaled drawings showing the location and area of the proposed project and the location of all existing and proposed facilities when applicable.

(3) Payment of all money due to the city for:

a. Permit fees and costs.

b. Prior obstructions or excavations.

c. Any loss, damage, or expense suffered by the city as a result of applicant's prior excavations or obstructions of the rights-of-way or any emergency actions taken by the city.

(4) The posting of construction security. (96-Or-127, § 1, 11-22-96; 97-Or-069, § 2, 8-8-97; 2000-Or-026, § 2, 4-21-00; Ord. No. 2009-Or-022, § 1, 3-6-09)

430.50. - Issuance of permit; conditions.

If the city engineer determines that the applicant has satisfied the requirements of Chapters 429 and 430 the city engineer shall issue a permit.

The city engineer may impose reasonable conditions upon the issuance of the permit and the performance of the applicant thereunder in order to protect the public health, safety and welfare, to insure the structural integrity of the right-of-way, to protect the property and safety of other users of the right-of-way, and to minimize the disruption and inconvenience to the traveling public. (96-Or-127, § 1, 11-22-96; 2000-Or-026, § 3, 4-21-00)

430.60. - Permit fees.

(a) *Excavation permit fee.* The excavation permit fee shall be in an amount sufficient to recover the following costs, if applicable:

(1) The city management cost.

(2) The disruptive cost.

(3) The mapping data cost.

(4) The degradation cost.

(b) *Obstruction permit fee.* The obstruction permit fee shall be in an amount sufficient to recover the following costs, if applicable:

(1) The city management cost.

(2) The disruptive cost.

(3) The mapping data cost.

(c) *Payment of permit fees:* No excavation permit or obstruction permit fee shall be issued without payment of excavation or obstruction permit fees.

(d) *Non refundable:* Permit fees that were paid for a permit that the city engineer has revoked for a breach of these chapters are not refundable.

(e) *Application to franchises:* Unless otherwise agreed to in a franchise, city management costs shall be charged separately from and in addition to the franchise fees imposed on a right-of-way user.

(f) *Permit fees:* All permit fees, pursuant to Chapters 429 and 430, shall be proposed by the city engineer and established from time to time by city council resolution.

(96-Or-127, § 1, 11-22-96; 97-Or-069, § 3, 8-8-97; 2000-Or-026, § 4, 4-21-00)

430.65. - Delay penalty.

The city engineer shall impose a delay penalty for unreasonable delays in the right-of-way excavation, obstruction, patching, or restoration. The delay penalty shall be proposed by the city engineer as established from time to time by city council resolution, and shall be in accordance with Minnesota Rules, Section 7819.1000, Subd. 3, when applicable. (2000-Or-026, § 5, 4-21-00; Ord. No. 2009-Or-022, § 2, 3-6-09)

430.70. - Right-of-way patching and restoration.

The work to be done under the excavation permit, and the patching and restoration of the right-of-way as required herein, must be completed within the dates specified in the permit, increased by as many days as work could not be done because of circumstances beyond the control of permittee or when work was prohibited as unseasonable or unreasonable under this chapter. In addition to patching its own work, the permittee must restore the general area of the work, and the surrounding areas, including the paving and its foundations, to the same condition that existed before the commencement of the work. The permittee must ensure compliance with this section by inspecting the area of the work before commencement and following completion of all work performed under the permit.

In its application for an excavation permit, the permittee may indicate a preference either to have the city restore the right-of-way or to restore the right-of-way itself. The city retains the right of first refusal for all or any portion of restoration work within the right-of-way.

(1) *City restoration.* If the city restores all or any portion of the right-of-way, permittee shall pay the costs thereof within thirty (30) days of billing.

(2) *Permittee restoration.* If the city foregoes its right of first refusal under this section and the permittee restores all or any portion of the right-of-way itself permittee shall at the time of application of an excavation permit post construction security. If, following such restoration by permittee, the pavement settles due to defective work, the permittee shall pay to the city, within thirty (30) days of billing, all costs associated with correcting the defective work.

When performing any work in the right-of-way, the permittee shall act according to the standards of and shall utilize the materials specified by the city engineer. The city engineer shall have the authority to prescribe the manner and extent of the restoration, and may do so in written procedures of general application or on a case-by-case basis. The city engineer in exercising this authority shall be guided by Minnesota Rule 7819.1100 when applicable.

Methods of restoration may include, but are not limited to, patching, replacement of the right-of-way base, and milling and overlay of the entire area of the right-of-way affected by the work.

The permittee shall correct defects in patching or restoration performed by the permittee or its agents upon notification from the city engineer, and correct all restoration work to the extent necessary using the method required by the city engineer. Said work shall be completed within five (5) calendar days of the receipt of the notice from the city engineer, not including days during which work cannot be done because of circumstances constituting force majeure or days when work was prohibited as unseasonable or unreasonable pursuant to chapter 429 and 430.

If the permittee fails to restore the right-of-way in the manner and to the condition required by the city engineer, or fails to satisfactorily and timely complete all restorations required by the city engineer, the city engineer, at his or her option, may do such work at the expense of permittee and/or the city engineer may pursue collection of any construction security required under this chapter.

In lieu of right-of-way restoration the city engineer may impose a degradation fee. However, the right-of-way user shall remain responsible for patching, and the degradation fee shall not include the cost to accomplish these responsibilities. (96-Or-127, § 1, 11-22-96; 97-Or-069, § 4, 8-8-97; 2000-Or-026, § 6, 4-21-00; Ord. No. 2009-Or-022, § 3, 3-6-09)

430.80. - Joint applications.

Registrants are encouraged to make joint application for permits to excavate or obstruct the right-of-way at the same place and time.

Registrants who join in a scheduled obstruction or excavation performed by the city engineer, whether or not it is a joint application by two (2) or more registrants or a single application, are not required to pay the obstruction and degradation portions of the permit fee.

Registrants who apply for permits for the same obstruction or excavation, which is not performed by the city engineer, may share in the payment of the obstruction or excavation permit fee. Registrants must agree among themselves as to the portion each will pay and indicate the same on their applications. (96-Or-127, § 1, 11-22-96; 97-Or-069, § 5, 8-8-97)

430.90. - Supplementary applications.

A right-of-way permit is valid only for the area of the right-of-way specified in the permit. No permittee may perform any work outside the area specified in the permit, except as provided

herein. Any permittee who determines that an area greater than that specified in the permit must be obstructed or excavated must, before working in that greater area:

(1) Make application for a permit extension and pay any additional fees necessitated thereby.

(2) Be granted a new permit or permit extension.

A right-of-way permit is valid only for the dates specified in the permit. No permittee may begin its work before the permit start date or, except as provided herein, continue working after the end date. If a permittee does not finish the work by the permit end date, it must make application for a new permit for the additional time it needs, and receive the new permit or an extension of the old permit before working after the end date of the previous permit. This supplementary application must be approved before the permit end date. (96-Or-127, § 1, 11-22-96; 2000-Or-026, § 7, 4-21-00)

430.100. - Other obligations.

Obtaining a right-of-way permit does not relieve permittee of its duty to obtain all other necessary permits, licenses, and authority and to pay all fees required by any other city or other applicable rule, law or regulation.

A permittee shall comply with all requirements of local, state and federal laws, including Minnesota Statutes, Sections 216D.01-.09 ("One Call Excavation Notice System").

A permittee shall perform all work in conformance with all applicable codes and established rules and regulations, and is responsible for all work done in the right-of-way pursuant to its permit, regardless of who performs the work.

Except in the case of an emergency, and with the approval of the city engineer, no right-of-way obstruction or excavation may be performed when seasonally prohibited or when conditions are unreasonable for such work.

A permittee shall not so obstruct a right-of-way that the natural free and clear passage of water through the gutters or other waterways shall be interfered with.

Private vehicles may not be parked within or adjacent to a permit area. The loading or unloading of trucks adjacent to a permit area is prohibited unless specifically authorized by the permit. (96-Or-127, § 1, 11-22-96; 2000-Or-026, § 8, 4-21-00)

430.110. - Denial of permit.

(a) *Mandatory denial.* Except in the case of an emergency, no right-of-way permit will be granted:

(1) To any person required to be registered who has not done so.

(2) To any person required to file an annual report but has failed to do so.

(3) For any next-year project not listed in the construction and major maintenance plan required under chapter 429, reporting obligations, except that a permit will not be denied when the right-of-way user has used commercially reasonable efforts to anticipate and plan for the project.

(4) For any project which requires the excavation of any portion of a right-of-way which was constructed or reconstructed within the preceding five (5) years.

(5) To any person who has failed within the past three (3) years to comply, or is presently not in full compliance, with the requirements of Chapters 429 and 430.

(6) To any person who has outstanding debt owed to the city that is in arrears, due, owing, and unpaid.

(7) To any person as to whom there exists grounds for the revocation of a permit under chapter 430.

(b) *Permissive denial.* The city engineer may deny a permit in order to protect the public health, safety and welfare, to prevent interference with the safety and convenience of ordinary travel over the right-of-way, would cause a conflict or interfere with an exhibition, celebration, festival, or any other event, or when necessary to protect the right-of-way and its users. The city engineer, at the city engineer's discretion, may consider one or more of the following factors:

(1) The extent to which right-of-way space where the permit is sought is available.

(2) The competing demands for the particular space in the right-of-way.

(3) The availability of other locations in the right-of-way or in other rights-of-way for the equipment facilities of the permit applicant.

(4) The applicability of ordinance or other regulations of the right-of-way that affect location of facilities in the right-of-way.

(5) The degree of compliance of the applicant with the terms and conditions of its franchise, Chapters 429 and 430, and other applicable ordinances and regulations.

(6) The degree of disruption to surrounding communities and businesses that will result from the use of that part of the right-of-way.

(7) The condition and age of the right-of-way, and whether and when it is scheduled for total or partial reconstruction.

(8) The balancing of the costs of disruption to the public and damage to the right-of-way, against the benefits to that part of the public served by the expansion into additional parts of the right-of-way.

(c) *Discretionary issuance.* Notwithstanding the provisions of sections 430.110(3) and 430.110(4), the city engineer may issue a permit in any case where the permit is necessary (a) to prevent substantial economic hardship to a customer of the permit applicant, or (b) to allow such customer to materially improve its utility service, or (c) to allow a new economic development project and where the permit applicant did not have knowledge of the hardship, the plans for improvement of service, or the development project when it was required to submit its list of next year projects.

(d) *Permits for additional next-year projects.* Notwithstanding the provisions this chapter, the city engineer may issue a permit to a registrant who was allowed under Chapter 429 to submit an additional next-year project, such permit shall be subject to all other conditions and requirements of law, including such conditions as may be imposed under chapter 430. (96-Or-127, § 1, 11-22-96; 97-Or-069, § 6, 8-8-97; 2000-Or-026, § 9, 4-21-00)

430.115. - Appeal.

A right-of-way user that:

(1) has been denied registration;

(2) has been denied a permit;

(3) has had a permit revoked; or

(4) believes that the fees imposed are invalid,

may have the denial, revocation, or fee imposition reviewed, upon written request, by the city council. A decision by the city council affirming the denial, revocation, or fee imposition will be in writing and

supported by written findings establishing the reasonableness for the decision. (2000-Or-026, § 10, 4-21-00)

430.120. - Installation requirements.

The excavation, backfilling, patching restoration, and all other work performed in the right-of-way shall be done in conformance with specifications as promulgated by the city engineer, Minnesota Rules 7819.1100 and 7819.5000 when applicable, and at a location required by this Code. (96-Or-127, § 1, 11-22-96; 2000-Or-026, § 11, 4-21-00; Ord. No. 2009-Or-022, § 4, 3-6-09)

430.130. - Inspection.

When the work under any permit hereunder is completed, the permittee shall submit a completion certificate to the city engineer at the time the project is completed, including any and all testing results and supporting documents generated to meet the requirements of restoration established by the city engineer. The completion statement, signed by a person designated by the right-of-way user as a responsible employee, shall show the completion date for the work performed, identify the installer and designer of record, and certify that the work was completed according to the requirements of the city engineer.

Permittee shall make the work site available to the city engineer and to all others as authorized by law for inspection at all reasonable times during the execution and upon completion of the work.

At the time of inspection, the city engineer may order the immediate cessation of any work which poses a serious threat to the life, health, safety or well-being of the public.

The city engineer may issue an order to the permittee for any work that does not conform to the applicable standards, conditions or codes. The order shall state that failure to correct the violation will be cause for revocation of the permit. Within ten (10) days after issuance of the order, the permittee shall present proof to the city engineer that the violation has been corrected. If such proof has not been presented within the required time, the city engineer may revoke the permit. (96-Or-127, § 1, 11-22-96; 97-Or-069, § 7, 8-8-97; 2000-Or-026, § 12, 4-21-00; Ord. No. 2009-Or-022, § 5, 3-6-09)

430.140. - Work done without a permit.

(a) *Emergency situations.* Each registrant shall immediately notify the city engineer or the city engineer's designee of any event regarding its facilities which it considers to be an emergency. The registrant may proceed to take whatever actions are necessary in order to respond to the emergency. Within two (2) business days after the occurrence of the emergency, the registrant shall apply for the necessary permits, pay the fees associated therewith and fulfill the rest of the requirements necessary to bring itself into compliance with Chapters 429 and 430 for the actions it took in response to the emergency.

In the event that the city engineer becomes aware of an emergency regarding a registrant's equipment or facilities, the city engineer may attempt to contact the local representative of each registrant affected, or potentially affected, by the emergency. In any event, the city engineer may take whatever action it deems necessary in order to respond to the emergency, the cost of which shall be borne by the registrant whose equipment or facilities occasioned the emergency.

(b) *Non-emergency situations.* Except in the case of an emergency, any person who obstructs or excavates a right-of-way without a permit must subsequently obtain a permit, pay double the normal

fee for said permit, pay double all the other fees required by the Code, deposit with the city engineer the fees necessary to correct any damage to the right-of-way and comply with all of the requirements of Chapters 429 and 430. (96-Or-127, § 1, 11-22-96; 97-Or-069, § 8, 8-8-97; 2000-Or-026, § 13, 4-21-00)

430.150. - Supplementary notification.

If the obstruction or excavation of the right-of-way begins later or ends sooner than the date given on the permit, permittee shall notify the city engineer of the accurate information as soon as this information is known.

If the obstruction of a right-of-way is of a shorter duration than that estimated on the permit application, the city engineer will, upon request, refund or credit to the permittee a proportionate amount of the permit fee. (96-Or-127, § 1, 11-22-96; 97-Or-069, § 9, 8-8-97)

430.160. - Revocation of permits.

Registrants hold permits issued pursuant to the Code as a privilege and not as a right. The city reserves its right, as provided herein, to revoke any right-of-way permit, without fee refund, in the event of a substantial breach of the terms and conditions of any statute, ordinance, rule or regulation, or any condition of the permit. A substantial breach by permittee shall include, but shall not be limited to, the following:

(1) The violation of any material provision of the right-of-way permit;

(2) An evasion or attempt to evade any material provision of the right-of-way permit, or the perpetration or attempt to perpetrate any fraud or deceit upon the city or its citizens;

(3) Any material misrepresentation of fact in the application for a right-of-way permit;

(4) The failure to maintain the required construction security and/or insurance;

(5) The failure to complete the work in a timely manner; or

(6) The failure to correct a condition indicated on an order issued pursuant to this chapter.

If the city engineer determines that the permittee has committed a substantial breach of a term or condition of any statute, ordinance, rule, regulation or any condition of the permit the city engineer shall make a written demand upon the permittee to remedy such violation. The demand shall state that continued violations may be cause for revocation of the permit. Further, a substantial breach, as stated above, will allow the city engineer, at the city engineer's discretion, to place additional or revised conditions on the permit.

Within twenty-four (24) hours of receiving notification of the breach, permittee shall contact the city engineer with a plan, acceptable to the city engineer, for its correction. Permittee's failure to so contact the city engineer, or the permittee's failure to submit an acceptable plan, or permittee's failure to reasonably implement the approved plan, shall be cause for immediate revocation of the permit. Further, permittee's failure to so contact the city engineer, or the permittee's failure to submit an acceptable plan, or permittee's failure to implement the approved plan, shall automatically place the permittee on probation for one (1) full year.

From time to time, the city engineer may establish a list of conditions of the permit, if breached will automatically place the permittee on probation for one (1) full year, such as, but not limited to, working out of the allotted time period or working on right-of-way grossly outside of the permit.

If a permittee, while on probation, commits a breach as outlined above, permittee's permit will automatically be revoked and permittee will not be allowed further permits for one (1) full year, except for emergency repairs.

If a permit is revoked, the permittee shall also reimburse the city for the city's reasonable costs, including restoration costs and the costs of collection and reasonable attorneys' fees incurred in connection with such revocation. (96-Or-127, § 1, 11-22-96; 2000-Or-026, § 14, 4-21-00; Ord. No. 2009-Or-022, § 6, 3-6-09)

430.170. - Non-exclusive remedy.

The remedies provided in this chapter and in Chapter 429 and other chapters in the Code are not exclusive or in lieu of other rights and remedies that the city may have at law or in equity. The city is hereby authorized to seek legal and equitable relief for actual or threatened injury to the public rights of way, including damages to the rights of way, whether or not caused by a violation of any of the provisions of this chapter or other provisions of the Code. (96-Or-127, § 1, 11-22-96)

430.175. - Liability for obstruction and excavation of streets.

All persons who shall, by means of any excavations in or obstructions upon any street of said city, not authorized by law or the ordinances of said city, render such street unsafe for travel, or who shall by negligence in the management of any such excavation or obstructions as shall be authorized, or by failure to maintain proper guards or lights thereat, render such street insufficient or unsafe for travel, shall be liable for all damages not caused by the negligence of the party injured, to whomsoever resulting, by reason of such obstruction or negligence, and no action shall be maintained against said city for such damages unless such person or persons shall be joined as party defendants; and in case of judgment against the defendants in such action execution shall at first issue only against the defendant causing such insufficiency, and the city shall not be required to take steps to pay such judgment until such execution shall be returned unsatisfied, and if the city shall pay such judgment it shall become the owner of the same and may enforce payment of the same from the other defendant and shall be entitled to execution therein against the other defendant, and to take such other proceedings as judgment creditors are entitled to take. (2014-Or-107, § 1, 12-5-14, eff. 1-2-15)

Minneapolis
Public Works

309 2nd Ave S. #200
Minneapolis, MN 55401
Office 612-673-3607
Email PwRightofWay@minneapolismn.gov
www.minneapolismn.gov/publicworks/permits

Encroachment Permit Application

Submit completed application, in person, by E-mail, or by U.S. to the Public Works Right of Way Section. Application shall be accompanied by a non-refundable application fee payable to the "Minneapolis Finance Department" according to the following schedule:

◯ Residential: $50 ◯ Non-Residential: $75 ◯ Amendment to Existing Permit: $25 (at the discretion of the Department of Public Works)

Property Information			
Property Owner:			
Property Address:			
Property ID:	Ward:		
Applicant Information			
Name:			
Address:	City:	State:	ZIP Code:
Phone:	E-mail:		
Applicant Signature:			Date:
Encroachment Description			
Please describe the type of encroachment being requested, and the materials to be used:			

Attach a survey/site plan which shows the details and dimensions of the encroachment. The drawing must show accurate property lines and the location of elements of the right of way, such as streets, sidewalks, boulevards, curbs, curb-cuts, trees, hydrants, lights and signs, bus stops, and utilities. Photos of the site showing current conditions are requested (digital on disk or by E-mail are best.)

Special Provisions

1. Notify Mike Wiebusch or Zach Demmer at 507-328-7070 prior to starting work
2. Turf establishment shall commence immediately after installation.
3. Signs and any traffic control shall meet the requirements of the MN MUTCD
4. The contractor shall have a copy of the permit on site at all times
5. All pedestals, manholes, handholes, etc... shall be marked with a high visibility marker.
6. Mark permit complete once work is finished to initiate final inspection.

Aerial

1. There shall be only a single pole line on the county highway right of way on either side of the center line thereof unless otherwise approved by the County. Individual pole locations shall be approved by the County prior to installation.

2. Longitudinal installations on county highways shall normally be located in the outer five feet of the right of way. Poles, brace poles, anchors and anchor poles shall be placed outside of the clear zone unless right of way widths are prohibitive to such location.

3. In those instances in which a Utility is issued a Permit or Permits for construction on both sides of the county highway right of way in a given area, such Permit is conditioned upon the Utility subsequently providing joint use to other Utilities upon reasonable terms mutually agreeable to the Utilities.

Definitions

Utility - Under this order utility shall mean and include all privately, publicly or cooperatively owned communication lines and facilities, any systems, lines and facilities for the distribution and transmission of electrical energy, oil, gas, water, sewer, steam and other pipe lines, railways, ditches, flumes or other structures which under the laws of this State or the ordinance of any village or city may be constructed, placed or maintained across, along or on county highway right of way. Dependent upon the meaning intended in the context, Utility shall also mean the utility company, inclusive of any wholly owned subsidiary.

County - Shall mean Olmsted County, its employees, successors, agents or assigns.

General

1. Except as otherwise permitted, utility construction and relocation on county highway right of way shall not commence until an application for a Permit has been made and such Permit approved. The Permit process will not begin prior to payment of permit fee.

2. No Utility work shall be allowed on Sunday's or legal holidays without prior consent of County.

3. Bike paths are not to be used to park equipment on or as access roads.

4. Any manhole, hand hole, splice box, etc… placed within the right of way shall be marked with an approved post, sign, or marker being a minimum of 5 feet in height and produced of highly visible materials.

5. The Permit sketch or utility construction plans shall show the location of the proposed construction work with reference to county highway centerline and highway right of way line. The proper right of way width should be indicated. A copy of the sketch shall be attached to each copy of such Permit. Utility lines, manholes, handholes, splice boxes, etc… shall not be located in the ditch bottom.

6. The Utility shall notify the County at least 48 hours in advance of the actual start of the work at 507-328-7070.

7. Utility shall be responsible for contractor's actions and operations, including but not limited to traffic control, installation location, depth, conformance with permit requirements and final cleanup.

8. Tree and/or vegetation removal operations where needed shall be the responsibility of the Utility and shall be approved prior to start of operation. All waterways and lines of drainage shall remain operative. Wherever topsoil and sod are disturbed they shall be replaced and maintained until the turf is established.

9. The utility facility and installation shall not interfere with any existing utility facilities on the County right of way. Any deviation of two (2) feet or more from the approved location requires Utility to notify County prior to said deviation. As-built plans shall be submitted to show deviation location.

10. The design and placement of all signs, barricades, and other warning devices shall conform to the current Minnesota Manual on Uniform Traffic Control Devices. When necessary, barricades, warning devices and flagmen shall be provided by the Utility during all phases of

their construction and maintenance operations on county highway right of way. The appropriate work zone traffic control layout shall be submitted with the permit request. Work zone traffic control layouts are available at the link provided in the REFERENCE section of this permit.

11. At the time of construction of the utility and at the times of subsequent maintenance, prior approval shall be obtained from the County for the cutting and trimming of trees within the county highway right of way. Wherever trees are cut the resulting stumps shall be removed unless otherwise provided in the Special Provisions of the Permit. Any holes caused by stump removal shall be backfilled, are leveled and all materials associated therewith disposed of outside the county highway right of way. The utility shall advise the County at least 48 hours in advance of its intent to start clearing and grubbing operations.

12. The Utility shall notify the County of its intent to perform service and maintenance operations which will interfere with the flow of traffic on county highways, and shall obtain approval prior to performing such operations. However, the Company may perform service and maintenance operations on county highways including opening and disturbing the surface of the right of way without prior approval in those instances where an emergency exists that is dangerous to the life or safety of the public and which requires immediate repair. The Utility shall take all necessary and reasonable safety measures to protect the traveling public and shall within two business days after the occurrence apply for the necessary permit. A permit is not required if the repair is caused by another Permittee's work in the right of way.

13. If at any time Olmsted County shall deem it necessary to make any improvements or changes on all or any part of the county highway right of way, then and in such event, the owner of the utility shall within 15 days after written notice from the County, proceed to alter, change, vacate or remove said utility from the county right of way so as to conform to said county highway changes and as directed by the County. Such work shall be done without any cost whatsoever to Olmsted County and shall be completed within the date specified in said written notice. The Utility shall assume all liability and save Olmsted County harmless from any and all claims or damage of any nature whatsoever occasioned by reason of not having removed said utility within the time specified in said notice. If work cannot be completed within the dates specified, a written request for an extension must be made to the County.

14. The Utility and Contractor shall assume all liability for, and save the County, its agents and employees, harmless from, any and all claims for damages, actions or causes of action arising out of the work to be done herein and the continuing uses by the Utility, including but not limited

to the placing, constructing, reconstructing, maintaining and using of said utility under this application and Permit.

15. The Permit as issued does not in any way imply an easement on public or private property. The permit does not convey any property rights within the highway right of way to the Permittee. If the highway right of way covered by this permit needs to be used or changed, the Utility or its assigns shall move, remove, change, the improvements described in this permit without any obligation to the County.

16. The Installations shall be made in conformity with all applicable laws, regulations and codes covering said installations. All installations shall be made in conformity with regulations of governmental agencies for the protection of the public.

17. Upon completion of an Installation, the Utility shall immediately restore the right of way to its original condition or better. County shall be notified within 5 working days of completion for final inspection. Contact the Permit Office: 507.328.7070.

Open Trench

1. Open trenching in roadbeds may only be allowed when no other method will work and only after adequate justification. Trenches in roadbeds will not be allowed to remain open overnight without consent from the County.

2. Trench excavations in roadway shall be backfilled with a minimum of 18" of Sand or as found. Class 5 base shall be replaced to a minimum depth of 9 inches or as found. Compaction of these materials shall be in accordance with the Ordinary Compaction Method for compacting embankments, Specification 2105 of Mn/DOT Standard Specifications for Highway Construction, Current Edition.

3. Bituminous surfacing shall be replaced to a minimum depth of 6 inches (4 inches of non wear and 2 inches of wear) or as found and installed in accordance with MN/DOT's combined specification 2350 / 2360 asphalt pavement.

4. Concrete Surfacing shall be replaced as per Utility Trench Full Depth Repair Type SA-C2.

Underground

1. All crossings made in the roadbeds of the county highways shall be made by boring inside a casing or carrier pipe, by jacking, or by directional boring unless this procedure is modified in the Special Provisions of the Permit. The auger shall not lead the casing or carrier pipe by more

than one inch. The bore pits shall be restricted to the area from 5 feet beyond the shoulder of the road except as modified in the Special Provisions of the Permit.

2. When pipes with bells or flanges are installed, the crossings of the county highway shall be made by boring inside a conduit as provided in paragraph I of this section or jacking a conduit of sufficient diameter to permit threading the carrier pipe through it.

3. All voids caused by jacking or boring shall be filled by pressure grouting. The grout material shall consist of sand-cement slurry of at least two sacks of cement per cubic yard and a minimum of water to assure satisfactory placement.

4. The underground utilities shall be so installed as virtually to preclude any necessity for disturbing the roadbeds to perform maintenance operations.

5. Underground installations shall be accomplished without damaging or destroying the principal root structure of specimen trees.

SECTION 5-6: ESSENTIAL SERVICES

A. Since essential and transmission services defined by this Ordinance may have an effect upon urbanizing areas of the county, county land uses, highway location, park and recreation areas, preservation of natural environmental areas, lakes, streams, and rivers, the proposed location of all such essential and transmission services in any zoning district shall be filed with the County prior to commencement of any condemnation action or construction by the owner.
Any essential service line, essential service structure, or utility facility proposed to be installed within 100 feet of the road centerline of a County maintained roadway in Pipestone County, shall first have the written approval of the County Engineer or written approval of the Pipestone County Board prior to installation.

B. Transmission services, i.e. utility service such as high voltage (35 KV or greater) electrical power, cell towers, or bulk gas or fuel being transferred from station to station and not intended for enroute consumption shall follow the following procedure:

1. The owner shall file with the County Engineer and the County Zoning Administrator such maps indicating the location, alignment and type of service proposed as well as an Environmental Impact Statement indicating areas of conflict and solutions to such environmental conflicts as shall be required.

2. All maps and accompanying data submitted to the Zoning Administrator shall be forwarded to the County Planning Commission along with the Administrator's and Engineer's reports for review and recommendation regarding the relationship to urban growth, land uses, highway, environment, recreation and park areas.

3. Following such review, the County Planning Commission shall make a report of its findings and recommendations on the proposed transmission services and shall file such report with the County Board.

4. Upon receipt of the report of the County Planning Commission of the planned essential transmission services, the Board of County Commissioners shall consider the maps and accompanying data and shall indicate to the owner its approval or modifications considered desirable under the Ordinance.

5. Recognizing a need for timely and adequate service by owners of essential services, the County shall act upon all information filed within forty-five (45) days of receipt by the Zoning Administrator and Engineer. In the process of deliberation, the County can call upon such sources of information public or private as they deem necessary to clarify problems and otherwise provide information necessary to their decision.

C. Any application for a permit for essential services, i.e. services such as power, gas or fuel for immediate local distribution to the general public within the County shall follow the following procedure:

1. The applicant shall file with the County Engineer, on forms supplied by the County, an application for such permit accompanied by maps indicating the locations, alignment and type of service proposed.

2. The application and accompanying data shall be reviewed by the County Engineer and the County Engineer may issue the permit after determining that the application is acceptable and in the best interest of the County.

3. The County Engineer may require in conjunction with the issuance of such permit that:

   a) The applicant submit as-built drawings of the essential service after construction.

   b) The applicant construct the essential service to take into consideration contemplated widening, regrading or relocation of a county highway or county state aid highway.

4. Recognizing the need for adequate and timely service by owners of essential services, the County Engineer shall act upon all information filings or permit applications at the earliest opportunity.

D. Temporary distribution services to residents and similar structures may be made prior to application for or issuance of a permit for essential services as described above, however, if such services are to be made permanent, or if permanent service is to be installed, application for such services must be made to the County Engineer within five (5) working days from the date of installation of the temporary services and shall become subject to issuance of said permit.

E. A filing fee shall be charged for each application for essential services, the amount of such application fee to be determined annually by the County Board.

SCOTT COUNTY

Ordinance Number 22
Management of the
Public Right-of-Way

Information Packet Includes:

- **Right of Way Ordinance**
- **Permit Fee Schedule**
- **Forms and Applications**
  - **Registration Information and Form**
  - **Application for Utility Permit**
  - **Application for Excavating/Grading**
  - **Application for Obstruction Permit**
  - **Application for Landscaping**
  - **Application for Street or Commercial Access Permit**
  - **Application for Residential or Field Access Permit**

Adopted by the Scott County Board of Commissioners on May 6, 2003

Amended November 21, 2017

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The Board of Commissioners of Scott County, Minnesota, does hereby ordain and adopt this Ordinance establishing regulations and standards for the management of the County rights-of-way pursuant to Minn. Stat. Chapters 160 and 163, § 237.163 and Minnesota Rules Chapter 7819.

Right-of-Way Management

Sec. 101 Purpose and Scope

To provide for the health, safety and welfare of its citizens and to ensure the integrity of its roads and streets and the appropriate use of the rights-of-way, the County strives to keep the right-of-way under its jurisdiction in a state of good repair and free from unnecessary encumbrances.

Accordingly, the County hereby enacts this Ordinance relating to right-of-way permits and administration. This Ordinance imposes regulation on the placement and maintenance of facilities and equipment currently within its right-of-way or to be placed therein at some future time. It is intended to complement the regulatory roles of state and federal agencies. Under this Ordinance, persons excavating and obstructing the right-of-way will bear financial responsibility for their work. Finally, this Ordinance provides for recovery of out-of-pocket and projected costs from persons using the public right-of-way.

Sec. 102 Statutory Authority to Manage the Public Right-of-Way

This Ordinance is created to manage and regulate the public use of the County's right-of-way along county roads pursuant to the authority granted to the County under state and federal statutory, administrative and common law. The County hereby elects to manage right-of-way under its jurisdiction. All right-of-way users, including the County, are subject to the provisions in this Ordinance. The County is exempt from the obligation of paying for permits or other fees imposed by this Ordinance. This Ordinance shall be interpreted consistent with 1997 Session Laws, Chap. 123, substantially codified in Minn. Stat. §§ 237.16, 237.162, 237.163, 237.79, 237.81, 238.086 (the "Act"), as amended by 2017 Session Laws, Chapter 94, Minn. Stat. Chap. 216D and the other laws governing applicable rights of the County and users of the right-of-way. This Ordinance shall also be interpreted consistent with Minnesota Rules 7819.0050 – 7819.9950 where possible. To the extent any provision of this Ordinance cannot be interpreted consistently with the Minnesota Rules, that interpretation most consistent with the Act and other applicable statutory and case law is intended. This Ordinance shall not be interpreted to limit the regulatory and police powers of the County to adopt and enforce general ordinances necessary to protect the health, safety, and welfare of the public.

"Manage the Right- of-Way" means the authority of the County to do any or all of the following (Minn. Stat. § 237.162, subd. 8, (1998)):

a. require registration;

b. require construction performance bonds and insurance coverage;

c. establish installation and construction standards;

d. establish and define location and relocation requirements for equipment and facilities;

e. establish coordination and timing requirements;

f. require right-of-way users to submit, henceforth required by the County, project data reasonably necessary to allow the County to develop a right-of-way mapping system including GIS system information;

g. require right-of-way users to submit, upon request of the County, existing data on the location of user's facilities occupying the public right-of-way within the County. The data may be submitted in the form maintained by the user in a reasonable time after receipt of the request based on the amount of data requested;

h. establish right-of-way permitting requirements for access, excavating/grading, utility services, landscaping and obstruction;

i. establish removal requirements for abandoned equipment or facilities, if required, in conjunction with other right-of-way repair, excavation or construction; and

j. impose reasonable penalties for unreasonable delays in construction.

Sec. 103 Definitions

The following definitions apply in this Ordinance. References hereafter to "sections" are, unless otherwise specified, references to sections in this Ordinance. Defined terms remain defined terms whether or not capitalized.

103.1 **Abandoned Facility** means a facility no longer in service or is physically disconnected from a portion of the operating facility, or from any other facility, that is in use or still carries service. A facility is not abandoned unless declared so by the right-of-way user.

103.2 **Access** means the physical connection to public or private property over right-of-way for residential, agricultural, commercial or municipal street purposes.

103.3 **Access Permit** means the permit which must be obtained from the County before a person may make a physical connection to a County road or highway.

103.4 **Access Permit Fee** means money paid to the County by a permittee to cover the costs as provided in Sec. 113 and required to obtain the permit.

103.5 **Applicant** means any person requesting permission to access, excavate/grade, place a utility service, landscape or obstruct a right-of-way.

103.6 **Commission** means the State Public Utilities Commission.

103.7 **Commercial Access** means access requested for commercial, retail or industrial purposes, public, or institutional facilities.

103.8 **Congested Right-of-Way** means a crowded condition in the subsurface of the public right-of-way that occurs when the maximum lateral spacing between existing underground facilities does not allow for construction of new underground facilities without using hand digging to expose the existing lateral facilities in conformance with Minn. Stat. § 216D.04, subd. 3, over a continuous length in excess of 500 feet.

103.9 **Construction Performance Bond** means any of the following forms of security provided at permittee's option:

a. individual project bond;

b. cash deposit;

c. security of a form listed or approved under Minn. Stat. Sec 15.73, sub3;

d. letter of credit, in a form acceptable to the County;

e. self-insurance in a form acceptable to the County;

f. blanket bond for projects within the County or construction bond for a specified time and in a form acceptable to the County.

103.10 **County** means the County of Scott, Minnesota. For purposes of Sec. 129 Indemnification and Liability, County means its elected and appointed officials, officers, employees and agents.

103.11 **Degradation** means a decrease in the useful life of the right-of-way caused by excavation in or disturbance of the right-of-way, resulting in the need to reconstruct such right-of-way earlier than would be required if the excavation did not occur.

103.12 **Department** means the Scott County Highway Department.

103.13 **Department Inspector** means any person authorized by the director to carry out inspections related to the provisions of this Ordinance.

103.14 **Director** means the Scott County Engineer, or her or his designee.

103.15 **Emergency** means a condition that (1) immediately endangers the life or safety of persons, (2) will cause an immediate threat of significant loss or injury to property; or (3) requires immediate repair or replacement in order to restore service to customers.

103.16 **Equipment** means any tangible asset used to install, repair, or maintain facilities in any right-of-way.

103.17 **Excavate/Grade** means to dig into or in any way remove or physically disturb or penetrate any part of a public right-of-way.

103.18 **Excavation/Grading Permit** means a permit issued by Scott County authorizing the permittee to excavate in County right-of-way as specifically described in the permit.

103.19 **Excavation/Grading Permit Fee** means money paid to the County by an applicant to cover the costs as provided in Sec. 113 and required to obtain a permit.

103.20 **Facility or Facilities** means any tangible asset, including equipment, in the right-of-way which is required to provide utility service.

103.21 **Five-year Project Plan** shows road projects adopted by the County for construction within the next five years.

103.22 **High Density Corridor** means a designated portion of the public right-of-way within which telecommunications right-of-way users having multiple and competing facilities may be required to build and install facilities in a common conduit system or other common structure.

103.23 **Hole** means an excavation in the pavement, with the excavation having a length less than the width of the pavement.

103.24 **Landscaping** means vegetative plantings, gardens, in-ground sprinkler systems and related features.

103.25 **Landscaping Permit** means a permit issued by Scott County authorizing the permittee to landscape in County right-of-way as specifically described in the permit.

103.26 **Landscaping Permit Fee** means money paid to the County by an applicant to cover the costs as provided in Sec. 113 and required to obtain a permit.

103.27 **Local Representative** means a local person or persons, or designee of such person or persons, authorized by a registrant to accept legal notice or service and to accept communications and to make decisions for that registrant regarding all matters within the scope of this Ordinance.

103.28 **Management Costs** means the actual costs the County incurs in managing its public rights-of-way, including, but not limited to such costs, if incurred, as those associated with registering applicants; issuing, processing, and verifying right-of-way permit applications; inspecting job sites and restoration projects; maintaining, supporting, protecting, or moving user equipment and facilities during public right-of-way work; determining the adequacy of right-of-way restoration; restoring work inadequately performed after providing notice and the opportunity to correct the work; and revoking right-of-way permits. Management costs do not include payment by a telecommunications right-of-way user for the use of the right-of-way, the fees and cost of litigation relating to the interpretation of Minnesota Session Laws 1997, Chapter 123; Minn. Stat. §§ 237.162 or 237.163 or any ordinance enacted under those sections, or the County fees and costs related to appeals taken pursuant to Sec. 131 of this Ordinance.

103.29 **Mapping Information** shall mean the information required in Sec. 124, Subd. 3 of this Ordinance.

103.30 **Obstruct** means to place any tangible object in a public right-of-way so as to hinder free and open passage over that or any part of the right-of-way.

103.31 **Obstruction Permit** means the permit which, pursuant to this Ordinance, must be obtained before a person may obstruct any part of a right-of-way, allowing the holder to hinder free and open passage over the specified portion of that right-of-way by placing any tangible object therein for the duration specified. An obstruction permit is not required if a public right-of-way user already possesses a valid excavation permit for the same project that includes an obstruction.

103.32 **Obstruction Permit Fee** means money paid to the County by a permittee to cover the costs as provided in Sec. 113 and required to obtain the permit.

103.33 **Patch or Patching** means a method of pavement replacement that is temporary in nature. A patch consists of (1) the compaction of the subbase and aggregate base, and (2) the replacement, in kind, of the existing pavement for a minimum of two feet beyond the edges of the excavation in all directions. A patch is considered full restoration only when the pavement is included in the County's five-year project plan.

103.34 **Pavement** means any type of improved surface that is within the public right-of-way and that is paved or otherwise constructed with bituminous, concrete, aggregate, or gravel.

103.35 **Permit** means a permit to impact or perform work in a public right-of-way, including permits for access, obstruction, excavation, grading, landscaping, and service or utility service.

103.36 **Permittee** means any person to whom a permit to access, excavate/grade, place a utility service, landscape or obstruct a right-of- way has been granted by the County under this Ordinance.

103.37 **Person** means an individual or entity subject to the laws and rules of this state, however organized, whether public or private, whether domestic of foreign, whether for profit or nonprofit, and whether natural, corporate, or political.

103.38 **Public Right-of-Way** means the area on, below, or above a public roadway, highway, street, cartway, bicycle lane, public sidewalk or area in which the County has an interest, including other dedicated rights-of-way for transportation purposes and utility easements of the County. A public right-of-way does not include the airwaves above a right-of-way with regard to cellular or other nonwire telecommunications or broadcast service. The lands described by an easement, deed, dedication, title, law or occupation of a road, highway, street, cartway, bicycle lane, or sidewalk are included as right-of-way.

103.39 **Registrant** means any person who (1) has or seeks to have its facilities located in any right-of-way, or (2) in any way occupies or uses, or seeks to occupy or use, the right-of-way or place its facilities in the right-of-way.

103.40 **Residential/Agricultural Access** means access requested for individual, residential or agricultural purposes.

103.41 **Restoration Cost** means the amount of money paid to the County by a permittee to achieve the level of restoration according to plates 1 to 13 of the Minnesota Public Utilities Commission rules.

103.42 **Restore or Restoration** means the process by which an excavated public right-of-way and surrounding area, including pavement foundation, is returned to the same or similar condition that existed before excavation.

103.43 **Right-of-Way Permit** has the same meaning as "Permit," defined above.

103.44 **Right-of-Way User** means (1) a telecommunications right-of-way user as defined by Minn. Stat. § 237.162, subd. 4; or (2) a person owning or controlling a facility in the right-of-way that is used or intended to be used for providing utility service, and who has a right under law, franchise, or ordinance to use the public right-of-way; or (3) any person or entity to whom a permit to use the right-of-way has been issued by the County.

103.45 **Service or Utility Service** includes (1) those services provided by a public utility as defined in Minn. Stat. § 216B.02, subds. 4 and 6; (2) services of a telecommunications right-of-way user, including providing wireless service or transporting of voice or data information; (3) services of a cable communications system as defined in Minn. Stat. Chap. 238; (4) natural gas or electric energy or telecommunications services provided by the city; (5) services provided by a cooperative electric association organized under Minn. Stat. Chap. 308A; (6) water, sewer, steam, cooling or heating services; and (7) privately-owned utility services, including drain tiles.

103.46 **Service or Utility Service Permit** means a permit issued by Scott County authorizing the permittee to place a service or utility service in County right-of-way as specifically described in the permit.

103.47 **Service or Utility Service Permit Fee** means money paid to the County by an applicant to cover the costs as provided in Sec. 113 and required to obtain a permit.

103.48 **Street Access** means access requested for municipal street purposes.

103.49 **Supplementary Application** means an application made to excavate or obstruct more of the right-of-way than allowed in, or to extend, a permit that has already been issued.

103.50 **Telecommunication Rights-of-Way User** means a person owning or controlling a facility in the right-of-way, or seeking to own or control a facility in the right-of-way, that is used or is intended to be used for providing wireless service or transporting telecommunication or other voice or data information. For purposes of this Ordinance, a cable communication system defined and regulated under Minn. Stat. Chap. 238, and telecommunication activities related to providing natural gas or electric energy services whether provided by a public utility as defined in Minn. Stat. § 216B.02, a municipality, a municipal gas or power agency organized under Minn. Stat. Chaps. 453 and 453A, or a cooperative electric association organized under Minn. Stat. Chap. 308A, are not telecommunications right-of-way users.

103.51 **Temporary Surface** means the compaction of subbase and aggregate base and replacement, in kind, of existing pavement only to the edges of the excavation. It is temporary in nature except when the replacement is of pavement included in the County's two-year project plan, in which case it is considered full restoration.

103.52 **Trench** means an excavation in the pavement, with the excavation having a length equal to or greater than the width of the pavement.

103.53 **Two Year Project Plan** shows road projects adopted by the County for construction within the next two years.

Sec. 104 Administration

The director is the principal County official responsible for the administration of the public/county rights-of-way, right-of-way permits, and the ordinances related thereto. The director may delegate any or all of the duties hereunder.

Sec. 105 Registration and Right-of-Way Occupancy

105.1 **Registration**. Each person who occupies, uses, or seeks to occupy or use, the public right-of-way or place any equipment or facilities in the right-of-way, including persons with installation and maintenance responsibilities by lease, sublease or assignment, must register with the County. Registration will consist of providing application information and paying a registration fee. Registration fees shall be set by the County Board at a public meeting and may be amended by them at a public meeting.

105.2 **Registration Prior to Work**. No person may construct, install, repair, remove, relocate, or perform any other work, including landscaping, on, or use any facilities or any part thereof in any right-of-way without first being registered with the County.

However, nothing herein relieves a person from complying with the provisions of the Minn. Stat. Chap. 216D, "Gopher State One Call" Law.

Sec. 106 Registration Information

106.1 **Information Required**. The information provided to the director at the time of registration shall be on the form approved by the County or this Ordinance and shall include, but not be limited to:

a. Each registrant's name, Gopher State One-Call registration certificate number, address, e-mail address if applicable, and telephone and facsimile numbers.

b. The name, address, e-mail address if applicable, and telephone and facsimile numbers of a local representative. The local representative or designee shall be accessible for consultation at all times. Current information regarding how to contact the local representative in an emergency shall be provided at the time of registration.

106.2 **Notice of Changes**. The registrant shall keep all of the information listed above current at all times by providing to the director information as to changes within fifteen (15) days following the date on which the registrant has knowledge of any change.

Sec. 107 Annual Reporting Obligations

107.1 **Operations**. Each registrant that provides utility service shall, at the time of registration and by March 1 of each year, file a construction and major maintenance plan for known underground facilities with the director. Such plan shall be submitted using a format designated by the director and shall contain the information determined by the director to be necessary to facilitate the coordination and reduction in the frequency of excavations and obstructions of rights-of-way. The utility facility plans shall be kept up-to-date by the registrant. Facility plans which a utility identifies in writing to the County as being "trade secret information" will be treated as general nonpublic data in accordance with Minn. Stat. § 13.37.

The plan shall include, but not be limited to, the following information:

a. The locations and the estimated beginning and ending dates of all projects to be commenced during the next calendar year (in this section, a "Next-Year Project");

b. To the extent known, the tentative locations and estimated beginning and ending dates for all projects contemplated for the five years (5) following the next calendar year (in this section, a "five-year project").

It is the registrant’s responsibility to keep informed on available construction and major maintenance plans filed by other registrants.

The term "project" in this section shall include both next-year projects and five-year projects but does not include individual service line hookups and minor maintenance unless they are part of an area wide program.

107.2 **Additional Next-year Projects**. Notwithstanding the foregoing, the director shall not deny an application for a right-of-way permit for failure to include a project in a plan submitted to the County if the registrant has used commercially reasonable efforts to anticipate and plan for the project.

Sec. 108 Permit Requirement

108.1 **Permit Required**. Except as otherwise provided in this code, no person may access, landscape, place a service utility, excavate/grade or obstruct any right-of-way without first registering and having obtained the appropriate right-of-way permit from the County to do so.

108.2 **Permit Extensions**. No person may access, landscape, place a service utility, excavate/grade or obstruct the right-of-way beyond the date or dates specified in the permit unless such person (1) makes a supplementary application for another right-of-way permit before the expiration of the initial permit; and (2) a new permit or permit extension is granted.

108.3 **Routine Maintenance Activities.** The director may approve a permit plan which, among other conditions, allows for maintenance activities without separate notice and separate compensation.

108.4 **Permit Display**. Permits issued under this Ordinance shall be conspicuously displayed or otherwise available at all times at the indicated work site and shall be available for inspection by the County**.**

Sec. 109 Permit Applications

Application for a permit is made to the director on the form provided by the County. Right-of-way permit applications shall contain and will be considered complete, only upon compliance with the requirements of the following provisions:

a. Registration with the County pursuant to this Ordinance;

b. Submission of a completed permit application form, including all required attachments, and scaled drawings showing the location and area of the proposed project and the location of all known existing and proposed facilities of the permittee in the project area.

c. Payment of money due the County for:

(1) permit fees, estimated restoration costs and other management costs;

(2) prior unpaid right-of-way or obstruction permit fees;

(3) any undisputed loss, damage, or expense suffered by the County because of applicant's prior excavations or obstructions of the right-of-way or any emergency actions taken by the County;

(4) other charges, if applicable.

d. Payment of disputed amounts due the County by posting security or depositing in an escrow account an amount equal to at least 100% of the amount owing.

Sec. 110 Insurance Required

110.1 Before any permit shall be issued allowing work in the public right-of-way, the applicant or registrant shall provide a certificate of insurance or self insurance:

(1) Verifying that an insurance policy has been issued to the applicant/registrant by an insurance company licensed to do business in the State of Minnesota, or a form of self insurance acceptable to the director;

(2) Verifying that the applicant/registrant is insured against claims for bodily injury, including death, as well as claims for property damage arising out of the (1) use and occupancy of the right-of-way by the registrant, its officers, agents, employees and permittees; and (2) placement and use of facilities in the right-of-way by the registrant, its officers, agents, employees and permittees, including, but not limited to, protection against liability arising from contracts, independent contractors, products and completed operations, explosions, damage of underground facilities and collapse of property;

(3) Naming the County, its officers, employees and agents, as an additional insured as to whom the coverages required herein are in force and applicable and for whom defense will be provided as to all such coverage;

(4) Requiring that the director be notified thirty (30) days in advance of cancellation of the policy, non-renewal or material adverse modification of a coverage term;

(5) Indicating commercial general liability coverage, business automobile liability coverage, workers compensation and umbrella coverage established by the director in amounts sufficient to protect the County and the public and to carry out the purposes and policies of this Ordinance.

110.2 The County may require a copy of the actual insurance policies.

110.3 If the person is a corporation, a copy of the certificate required to be filed under Minn. Stat. § 300.06 as recorded and certified to by the Secretary of State shall be filed with the County.

110.4 A copy of the person's order granting a certificate of authority from the Minnesota Public Utilities Commission or other applicable state or federal agency, where the person is lawfully required to have such certificate from said Commission or other state or federal agency.

Sec. 111 Construction Performance Bonds

111.1 **Requirement.** At the director's discretion, a construction performance bond may be required from either the applicant or registrant for any work in the public right-of-way which requires a permit pursuant to this Ordinance.

111.2 **Amount of Bond.** The director shall determine the construction performance bond amount based on estimated costs to restore the right-of-way if the applicant/registrant is non-compliant with conditions of Sec. 114 right-of-way patching and restoration.

Sec. 112 Issuance of Permit; Conditions

112.1 **Permit Issuance**. If the applicant has satisfied the requirements of this Ordinance, the County shall issue a permit.

112.2 **Conditions**. The director may impose reasonable conditions upon the issuance of the permit and the performance of the applicant thereunder to protect the health, safety and welfare or, when necessary, to protect the right-of-way and its current and future use.

Sec. 113 Permit Fees

113.1 **Right-of-Way Permit Fee**. The County shall establish right-of-way permit fees in an amount sufficient to recover the following costs.

a. The County right-of-way management costs;

b. Degradation costs, if applicable; and

c. Other costs and fees allowed by statute.

Permit fees shall be established by the County Board and may be amended at

any public meeting.

113.2 **Conditions.** The Director may impose conditions upon the issuance of permits and the performance of the applicant thereunder to protect the public's health, safety and welfare, or when necessary, to protect the public right-of-way and its current use, including but not limited to the recovery of any unusual management costs not recovered through the standard permit fee, including but not limited to the cost of assigning a police officer to provide traffic management or the cost of assigning a field observer.

113.3 **Payment of Permit Fees**. A right-of-way or obstruction permit shall not be issued without payment of right-of-way or obstruction permit fees unless the County allows applicants to pay such fees within thirty (30) days of billing**.**

113.4 **Non refundable**. Permit fees that were paid for a permit that the director has revoked for a breach as described in Sec. 123 are not refundable.

Sec. 114 Right-of-Way Patching and Restoration

114.1 **Timing**. The work to be done under the right-of-way permit, and the patching and restoration of the right-of-way as required herein, must be completed within the dates specified in the permit, increased by as many days as work could not be done because of extraordinary circumstances beyond the control of the permittee or when work was prohibited as unseasonable or unreasonable under Sec. 116.

114.2 **Temporary Surfacing, Patch and Restoration.** Permittee shall patch its own work.

a. **County Restoration**. If the County restores any part of the right-of-way, the permittee shall pay the costs thereof within thirty (30) days of billing. If the County restores only the surface of the right-of-way and during the twenty-four (24) months following such restoration, the pavement settles, the permittee shall pay to the County, within thirty (30) days of billing, all costs related to restoring the right-of-way or associated with having to correct the defective work of permittee, which may include removal and replacement of any or all work done by the permittee. These costs shall include administrative, overhead mobilization, material, labor, and equipment.

b. **Permittee Restoration**. If the permittee restores the right-of-way itself, it shall at the time of application for a right-of-way permit, post a construction performance bond in an amount determined by the director to be sufficient to cover the cost of restoration. If, within twenty-four (24) months after completion of the restoration of the right-of-way, the director determines that the right-of-way has been properly restored, the surety on the construction performance bond shall be released.

114.3 **Standards**. To the maximum extent possible, restoration must return the right-of-way to the same condition that existed before excavation as determined by the County Engineer. Subject to this standard, plates 1 to 13 shown in Minn. Rules pts. 7819.9900 to 7819.9950, indicate the maximum limits of restoration methods and area requirements the County may impose when a right-of-way user excavates in the public right-of-way. The Director and the right-of-way user may agree to a lesser requirement. All levels of restoration include compaction of the materials placed in the excavation of the subgrade and aggregate base, plus pavement replacement in kind. If required by the Director, all work must be performed according to the County's standards and specifications and drawing.

114.4 **Guarantees.** The permittee guarantees its work and shall maintain it for twenty-four (24) months following its completion. The obligation is limited to one (1) year for plantings and turf establishment. During this 24-month period the permittee shall, upon notification from the director, correct all restoration work to the extent necessary, using the method required by the director. Said work shall be completed within five (5) working days after receipt of the notice from the director, taking into consideration days during which work cannot be done because of circumstances constituting force majeure or days when work is prohibited as unseasonable or unreasonable under Sec. 117.

114.4(a). **Duty to Correct Defects.** The permittee shall correct defects in patching, or restoration performed by permittee or its agents. The permittee, upon notification from the County, shall correct all restoration work to the extent necessary, using the method required by the County. Said work shall be completed within five (5) working days of the receipt of the notice from the County, not including days during which work cannot be done because of circumstances constituting force majeure or days when work is prohibited as unseasonal or unreasonable under Sec. 117.

114.5 **Failure to Restore**. If the permittee fails to restore the public right-of-way in the manner and to the condition required by the director, or fails to satisfactorily and timely complete all restoration required by the director, the director shall notify the permittee in writing of the specific alleged failure or failures and shall allow the permittee at least five (5) working days from receipt of the notice to cure the failure or failures, or to respond with a plan to cure. In the event the permittee fails to cure or fails to respond to the notice, the County may, at its option, perform the necessary work and the permittee shall pay to the County, within thirty (30) days of billing, the cost of restoring the right-of-way. If permittee fails to pay as required, the County may exercise its rights under the construction performance bond. Nothing in this section shall prevent the County from determining that an emergency situation arises and to take prompt action to protect the health and safety of the public.

Sec. 115 Joint Applications

115.1 **Joint Application**. Registrants may be required to jointly apply for permits to access, excavate/grade, place a utility service, landscape or obstruct the right-of-way at the same place and time.

115.2 **Shared Fees**. Registrants who apply for permits for the same obstruction or right-of-way permit action, which the director does not perform, may share in the payment of the obstruction or right-of-way permit fee. Registrants must agree among themselves as to the portion each will pay and indicate the same on their applications.

115.3 **With County Construction Projects**. Registrants who join in a scheduled obstruction or right-of-way permit action coordinated with a County construction project by the director, whether or not it is a joint application by two or more registrants or a single application, are not required to pay any fees, but a permit is still required.

Sec. 116 Supplementary Applications

116.1 **Limitation on Area.** A right-of-way permit is valid only for the area of the right-of-way specified in the permit. No permittee may do any work outside the area specified in the permit, except as provided herein. Any permittee which determines that an area greater than that specified in the permit must be obstructed or excavated must before working in that greater area (1) make application for a permit extension and pay any additional fees required thereby, and (2) be granted a new permit or permit extension. The Director may orally waive the requirement for a permit extension or the payment of an additional fee. County shall maintain a written record of any waivers granted.

116.2 **Limitation on dates**. A right-of-way permit is valid only for the dates specified in the permit. No permittee may begin its work before the permit start date or, except as provided herein, continue working after the end date. If a permittee does not finish the work by the permit end date, it must apply for a new permit for the additional time it needs, and receive the new permit or an extension of the old permit before working after the end date of the previous permit. This supplementary application must be done before the permit end date. The Director or the Director's Designee may orally waive the requirement for a permit extension or the payment of an additional fee. County shall maintain a written record of any waivers granted.

Sec. 117 Other Obligations

117.1 **Compliance with Other Laws**. Obtaining a right-of-way permit does not relieve permittee of its duty to obtain all other necessary permits, licenses, and authority and to pay all fees required by the County or other appropriate jurisdiction or other applicable rule, law or regulation. Permittee shall comply

with other local codes and with road load restrictions. A permittee shall comply with all requirements of local, state and federal laws, including Minn. Stat. 216D.01-.09 ("Gopher State One Call Excavation Notice System").

A permittee shall perform all work in conformance with all applicable codes and established rules and regulations, and is responsible for all work done in the right-of-way pursuant to its permit, regardless of who does the work.

117.2 **Prohibited Work**. Except in an emergency or with the approval of the Director, no right-of-way obstruction or excavation may be done when seasonally prohibited or when conditions are unreasonable for such work.

117.3 **Interference with Right-of-Way**. A permittee shall not so obstruct a right-of-way that the natural free and clear passage of water through gutters, culverts, ditches tiles or other waterways shall be interfered. Private vehicles of those doing work in the right-of-way may not be parked within or next to a permit area, unless parked in conformance with County or applicable township and city parking regulations. The loading or unloading of trucks must be done solely within the defined permit area unless specifically authorized by the permit.

Traffic control shall conform to the Minnesota Manual on Uniform Traffic Control Devices (MMUTCD) and its field manual and any written directions of the director.

Sec. 118 Denial of Permit

The County may deny a permit for failure to meet the requirements and conditions of this Ordinance or if the County determines that the denial is necessary to protect the health, safety, and welfare or when necessary to protect the right-of-way and its current and future use. The County may deny a permit if the utility has failed to comply with previous permit conditions. The County may withhold issuance of a permit until conditions of previous permit are complied with.

Sec. 119 Installation Requirements

The excavation, backfilling, patching and restoration, and all other work performed in the right-of-way shall be done in conformance with Minnesota Rules 7819.1100, 7819.5000 and 7819.5100 and shall conform to MnDOT standard specifications and other applicable local requirements, in so far as they are not inconsistent with the Minn. Stat. §§ 237.162 and 237.163.

Sec. 120 Inspection

120.1 **Notice of Completion**. When the work under any permit hereunder is completed, the permittee shall furnish a completion certificate in accordance with Minnesota Rule 7819.1300.

120.2 **Site Inspection**. Permittee shall make the work-site available to the County, or its agents and to all others as authorized by law for inspection at all reasonable times during the execution of and upon completion of the work.

120.3 **Authority of County**.

a. At the time of inspection the director may order the immediate cessation and correction of any work which poses a serious threat to the life, health, safety or well being of the public.

b. The director may issue an order to the permittee for any work which does not conform to the terms of the permit or other applicable standards, rules, laws, conditions, or codes so long as the nonconformance constitutes a "substantial breach" as set forth in Minn. Stat. § 237.163, subd. 4(c)(1)-(5). The order shall state that failure to correct the violation will be cause for revocation of the permit. Within a reasonable time after issuance of the order, the permittee shall present proof to the director that the violation has been or will be corrected within a time period set forth by the director in the order. If such proof has not been presented within the required time, the director may revoke the permit pursuant to Sec. 123.

c. The cost of any action required by the County shall be paid by the permittee.

Sec. 121 Emergency Situations

Each registrant shall immediately notify the director of any event regarding its facilities that it considers to be an emergency. The registrant will proceed to take whatever actions are necessary to respond to the emergency or as directed by the director. Within two business days after the occurrence of the emergency the registrant shall apply for the necessary permits, pay the fees associated therewith and fulfill the rest of the requirements necessary to bring itself into compliance with this Ordinance for the actions it took in response to the emergency. The permittee requirements shall not apply if the repair is caused by another permittee's work in the right-of-way.

If the County becomes aware of an emergency regarding a registrant's facilities, the County will attempt to contact the local representative of each registrant affected, or potentially affected, by the emergency. In any event, the County may take whatever action it deems appropriate to the emergency, the cost of which shall be borne by the registrant whose facilities occasioned the emergency.

Sec. 122 Work Done Without a Permit

Except in an emergency, any person who, without first having obtained the necessary permit, obstructs or excavates a right-of-way must subsequently obtain a permit, deposit with the County the fees necessary to correct any damage to the right-of-way and comply with all of the requirements of this Ordinance.

Sec. 123 Supplementary Notification

If the obstruction or excavation of the right-of-way begins later or ends sooner than the date given on the permit, permittee shall notify the County of the accurate information as soon as this information is known.

Sec. 124 Revocation of Permits

124.1 **Substantial Breach**. The County reserves its right, as provided herein, to revoke any right-of-way permit, without a fee refund, if there is a substantial breach of the terms and conditions of any relevant statute, ordinance, rule or regulation, or any material condition of the permit including a threat to the safety of workers, or the right-of-way user or the utility users. A substantial breach by permittee shall include, but shall not be limited to, the following:

a. The violation of any material provision of the right-of-way permit;

b. An evasion or attempt to evade any material provision of the right-of-way permit, or the perpetration or attempt to perpetrate any fraud or deceit upon the County or its citizens;

c. Any material misrepresentation of fact in the application for a right-of-way Permit;

d. The failure to complete the work in a timely manner; unless a permit extension is obtained, or unless the failure to complete work is due to reasons beyond the permittee's control, or failure to relocate existing facilities as specified in Sec. 125; or

e. The failure to correct, in a timely manner, work that does not conform to a condition indicated on an order issued pursuant to Sec. 120.

f. Failure of the utility to pay any required costs, fees, or charges billed by the County.

124.2 **Written Notice of Breach**. If the County determines that the permittee has committed a substantial breach of a term or condition of any statute, ordinance, rule, regulation or any condition of the permit the County shall make a written demand upon the permittee to remedy such violation. The demand shall state that continued violations may be cause for revocation of the permit. A substantial breach, as stated above, will allow the County, at its discretion, to place additional or revised conditions on the permit to mitigate and remedy the breach.

124.3 **Response to Notice of Breach**. Within five (5) working days of receiving a written notification of breach from the County, permittee shall provide the county with a plan acceptable to the director that will cure the breach. Permittee's failure to so contact the County, or the permittee's failure to submit an acceptable plan, or permittee's failure to reasonably implement the approved plan, shall be cause for immediate revocation of the permit.

124.4 **Reimbursement of County Costs.** If a permit is revoked, the permittee shall also reimburse the County for the County's reasonable costs, including restoration costs.

124.5 **Revoked Permit.** If the County revokes a permittee's permit for breach of this Ordinance, the permittee will not be allowed to obstruct or excavate within the County right-of-way until the breach situation is corrected to the satisfaction of the director and the permit is reissued.

Sec. 125 Mapping Data

125.1 **Information Required**. Each registrant and permittee shall provide project data necessary to allow the County to develop a right-of-way mapping system in accordance with Minn. Stat. § 237.162, subd. 8 (6) 1998).

125.2 **Application Required.** County requires a permit for excavation in or obstruction of its public right-of-way. A person wishing to undertake a project within the public right-of-way shall submit a right-of-way permit application, which will require the filing of mapping information pursuant to subdivision 3.

125.3 **Mapping Information.** Scott County requires as part of its permit the filing of all of the following information for placement of utilities:

a. Location and elevation of applicant's mains, cables, conduits, switches, and related equipment and facilities, with the location based on one of the following methods:

(1) The preferred method is: X, Y, and Z coordinates in NAD 83 1996 Adjustment (also known as HARN Adjustment) horizontal datum and NGVD 88 vertical datum. This information is to be supplied in an electronic format in an ASCII comma-delimited file including: Point Number, Northing, Easting, Elevation and Description. The alignment position shall be collected at a minimum interval of two hundred feet or as required by changes in direction of the utility being located to define the horizontal alignment. Elevation "as built" depth locations shall be collected at a minimum of 10 per mile. The horizontal and vertical accuracy requirements for all collected positions shall be within 0.5 feet of their reported position as evidenced by the certification of a licensed Land Surveyor or

Engineer registered in the State of Minnesota.

(2) Offsets from property lines, distances from the centerline of the public right-of-way, and curb lines as determined by the County.

(3) Any other system agreed upon by the right-of-way user and the County.

b. the type and size of the utility facility;

c. a description of above-ground appurtenances;

d. any facilities to be abandoned, if applicable, in conformance with Minn. Stat. § 216D.04, subd. 3.

125.4 Changes and Corrections. The application must provide that the applicant agrees to submit "as built" data, reflecting any changes and variations from the information provided under subdivision 2, items A to D.

125.5 Additional Construction Information. In addition, the right-of-way user shall submit to County at the time the project is completed a completion certificate.

125.6 Manner of Conveying Permit Data. A right-of-way user is not required to provide or convey mapping information or data in a format or manner that is different from what is currently utilized and maintained by that user.

A permit application fee may include the cost to convert the data furnished by the right-of-way user to a format currently in use by the local unit of government. These data conversion costs, unlike other costs that make up permit fees, may be included in the permit fee after the permit application process.

125.7 Data on Existing Facilities. At the request of Scott County, a right-of-way user shall provide existing data on its existing facilities within the public right-of-way in the form maintained by the user at the time the request was made, if available.

Sec. 126 Location and Relocation of Facilities

126.1 Placement, Location, and Relocation. Placement, location, and relocation of facilities must comply with the Act, with other applicable law, and with Minnesota Rules 7819.3100, 7819.5000, and 7819.5100, to the extent the rules do not limit authority otherwise available to cities and counties.

126.2 Corridors. The County may assign specific corridors within the right-of- way, or any particular segment thereof as may be necessary, as a best management practice for each type of facility or equipment that

is, or, pursuant to current technology, the County expects will someday be, located within the right-of-way. All right-of-way, obstruction, or other permits issued by the County involving the installation or replacement of facilities shall designate the proper corridor for the facilities at issue. A typical cross section of the location for utilities may be on file at the director's office. This section is not intended to establish "high density corridors." Any registrant who has facilities in the right-of-way in a position at variance with the corridors established by the County shall, no later than at the time of the next reconstruction or excavation of the area where the facilities are located, move the facilities to the assigned position within the right-of-way, to prevent interference with planned local government use of the right-of-way unless this requirement is waived by the County for good cause shown, upon consideration of such factors as the remaining economic life of the facilities, public safety, customer service needs and hardship to the registrant.

126.3 **Limitation of Space**. To protect health, safety, and welfare or when necessary to protect the right-of-way and its current use, the County shall have the power to use best management practices to prohibit or limit the placement and location of new or additional facilities within the right-of-way. In making such decisions, the County shall strive to the extent possible to accommodate all existing and potential users of the right-of-way, but shall be guided primarily by considerations of the public interest, the public's need for the particular utility service, the condition of the right-of-way, the time of year with respect to essential utilities, the protection of existing facilities in the right-of-way, and future County plans for public improvements and development projects which have been determined to be in the public interest.

126.4 **Relocation of Facilities.** A right-of-way user shall promptly and at its own expense, with due regard for seasonal working conditions, permanently remove and relocate its facilities in the right-of-way when it is necessary to prevent interference, and not merely for convenience of the local government unit, in connection with: (1) a present or future local government use of the right-of-way for a public project; (2) the public health or safety; or (3) the safety and convenience of travel over the right-of-way.

A right-of-way user is not required to remove or relocate its facilities from a right-of-way that has been vacated in favor of a nongovernmental entity unless and until the reasonable costs to do so are first paid to the right-of-way user.

Sec. 127 Location of Facilities During Design Process

In addition to complying with the requirements of Minn. Stat. 216D.01-.09 ("One Call Excavation Notice System"), each registrant who has facilities or equipment in the project area shall provide location information to the County of all said facilities.

Sec. 128 Damage to Other Facilities

The provisions of Minn. Stat. Ch.. 216D, as amended, shall apply to all situations involving damages to facilities during excavation operations.

Sec. 129 Right-of-Way Vacation

Reservation of Right. If the County vacates a right-of-way that contains the facilities of a registrant, the registrant's rights in the vacated right-of-way are governed by Minnesota Rule 7819.3200 and other applicable laws.

Sec. 130 Indemnification and Liability

Limitation of Liability: By registering with the County, or by accepting a permit under this Ordinance, a registrant or permittee agrees to defend and indemnify the County for any liability for (1) for injuries to persons, damage to property or loss of service claims by parties other than the registrant or the County, or (2) for claims or penalties of any sort resulting from the installation, presence, maintenance or operation of equipment or facilities by registrants or permittees or activities of registrants or permittees.

Indemnification: To the fullest extent permitted by law, a registrant or permittee shall indemnify, keep and hold the County, its officials, employees and agents, free and harmless from any and all costs, specifically including attorney fees and other costs and expenses of defense, liabilities, and claims for damages of any kind arising out of the construction, presence, installation, maintenance, repair or operation of its equipment and facilities, or out of any activity undertaken in or near a public right-of-way, whether or not any act or omission complaint of is authorized, allowed or prohibited by a public right-of-way permit. The foregoing does not indemnify the County for its own negligence except for claims arising out of or alleging the County's negligence in issuing the permit or failing to properly or adequately inspect or enforce compliance with a term, condition or purpose of a permit. This section is not, as to third parties, a waiver of any defense or immunity otherwise available to the registrant, permittee or the County, and the registrant or permittee, in defending any action on behalf of the County, shall be entitled to assert in any action every defense or immunity that the County could assert in its own behalf. In defending the County, any registrant or permittee shall obtain the consent of the County Board before any settlement shall be enforced.

All permits are granted subject to the ownership rights the County may have in the property involved and to the extent that state, federal local laws, rules and regulations allow and said permit is subject to all such laws and rules.

Sec. 131 Abandoned or Unusable Facilities

131.1 Discontinued Operations. A registrant who has determined to discontinue all or a portion of its operations in the County must provide information satisfactory to the County that the registrant's obligations for its facilities in

the right-of-way under this Ordinance have been lawfully assumed by another registrant.

131.2 **Removal.** Any registrant who has abandoned or unusable facilities in any right-of-way shall remove it from that right-of-way if required in conjunction with other right-of-way repair, excavation, or construction, unless the County waives this requirement.

Sec. 132 Appeal

A right-of-way user that: (1) has been denied registration; (2) has been denied a permit; (3) has had permit revoked; or (4) believes that the fees imposed are invalid, may have the denial, revocation, or fee imposition reviewed, upon written request by the County Board. The County Board shall act on a timely written request. A decision by the County Board affirming the denial, revocation, or fee imposition will be in writing and supported by written findings establishing the reasonableness of the decision.

Sec. 133 Reservation of Regulatory and Police Powers

A permittee's or registrant's rights are subject to the regulatory and police powers of the County to adopt and enforce general ordinances necessary to protect the health, safety and welfare of the public.

Sec. 134 Severability

If any portion of this Ordinance is for any reason held invalid by any court of competent jurisdiction, such portion shall be deemed a separate, distinct, and independent provision and such holding shall not affect the validity of the remaining portions thereof. Nothing in this Ordinance precludes the County from requiring a franchise agreement with the applicant, as allowed by law, in addition to requirements set forth herein.

Sec. 135 Permit Fee Schedule

The County Board shall periodically review and approve the fee schedule for permits issued under this Ordinance.

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ARTIC E II. WATERWAYS

Sec. 24 11. Right of pa age.

It sh ll be unl wful for ny person to obstruct the p ss ge of w ters in the city, to pl ce ny rtifici l obstruction therein, to obstruct the p ss ge of w tercr ft, or to interfere with the use by the public of the bed, b nks, w ter of creek, or its ch nnel.
(Code 1976, § 6-301)

Sec. 24 12. Enc oachment on bank o floodplain.

o obstruction sh ll be pl ced upon the b nk or floodpl in of creek unless done in compli nce with the zoning nd subdivision ch pters of this Code.
(Code 1976, § 6-302)

Sec. 24 1 . A tificial ob t uction decla ed a nui ance.

ny rtifici l obstruction of the bed, b nks or floodpl in of creek is decl red to be nd to constitute public nuis nce, unless permit to construct nd m int in such obstruction h s been obt ined in the m nner provided in the zoning ch pter of this Code.
(Code 1976, § 6-303)

Sec. 24 14. Removal of natu al ob t uction .

s to obstructions in floodpl in for which permits h ve not been obt ined, the city sh ll h ve the right of re son ble entry upon ny l nds or w ters for the purpose of removing n tur l obstructions including, but not limited to, f llen trees, silt, debris nd simil r items.
(Code 1976, § 6-304)

Sec. 24 1 . Removal of a tificial ob t uction .

If n rtifici l obstruction is found fter investig tion by the city, n order sh ll be issued to the owner, following ten d ys' written notice nd he ring thereon, for remov l of the obstruction within such re son ble time s m y be required considering the condition nd type of rtifici l obstruction. If the owner sh ll f il to remove the rtifici l obstruction or if the owner c nnot be found or determined, the city sh ll h ve the power to m ke or c use such remov l to be m de, the cost of which sh ll be borne by the owner or speci lly ssessed g inst the l nds in the s me m nner s prescribed by l w for the levy of speci l ssessments for municip l improvements. The speci l ssessment sh ll be certified to the county uditor for collection in the s me m nner s the speci l ssessments of the city for loc l improvements.
(Code 1976, § 6-305)

Sec . 24 16 24 40. Re e ved.

ARTIC E III O STRUCTIONS

Se 24 41 D m ging unfinished p ving

No per on hall walk upon drive or ride over or acro any pavement in cour e of con truction or any uncompleted grading or idewalk con truction which ha not been opened for travel.
(Code 1976 § 12-1301)

Se 24 42 rriers nd gu rds

very per on who hall have charge of the con truction of any excavation or ob truction in or adjacent to or under any idewalk or treet during the progre of uch work hall cau e uch excavation to be ecurely guarded by a fence. From one-half hour after un et to one-half hour before unri e uch excavation or ob truction hall be illuminated with light or electric fla hing light ufficient in number and o placed a to how the full extent of the excavation.
(Code 1976 § 12-1302)

Se 24 43 Obstru ting side l s nd publi ys

No per on hall leave or allow to be left any vehicle which ob truct any idewalk or other public way of thi city longer than i nece ary for loading or unloading the ame unle granted a permit to do o by the city. xcept for vehicle no per on hall leave or allow to be left any object on any treet or other public way. Violation of thi provi ion i declared a nui ance under ection 12-31.
(Code 1976 § 12-1303; Ord. No. 2260-03 12-1-03)

Se 24 44 Removing b rri des

No per on hall remove throw down run over or interfere with any barricade lawfully erected placed to guard and protect any grading paving idewalk con truction or other work.
(Code 1976 § 12-1305)

Se 24 45 Side l s; erosion debris

The property owner hall be re pon ible for promptly removing any debri which may accumulate on any idewalk pathway trail roadway or any other affected public facility or right-of-way abutting the property owner' land cau ed by ero ion from that land. The exi tence of ero ion debri on the idewalk hall be declared a nui ance under ection 12-34 of thi Code.

Se 24 46 Thro ing b lls, stones or other items in streets

No per on hall throw or bat any ball tone or other hard ub tance into on or acro any treet or alley or in any public place or at or again t any building or vehicle or at or toward any per on.
(Code 1976 § 12-1307)

Sec. 4 47. isua obs ruc ions a in ersec ions.

a) Walls, fences, structures, trees, shrubs, vegetat on or other obstruct ons shall be perm tted n any yard as regulated n th s sect on except when t poses a danger to traff c by obscur ng the v ew from any street, roadway or alley.

b) V s b l ty from any street or roadway shall be unobstructed above the he ght of 2 1/2 feet and below f ve feet w th n the tr angle descr bed as beg nn ng from a po nt at the ntersect on of the extens on of the ex st ng curbl nes of the two streets, and extend ng a d stance of 50 feet along the edge of each street. Th s def nes two s des of the tr angle. The th rd s de s a l ne connect ng the end po nts of the two s des descr bed above.

c) V s b l ty from the ntersect on of any street or roadway and an alley shall be unobstructed above the he ght of 2 1/2 feet and below f ve feet w th n the tr angle descr bed as beg nn ng from a po nt at the ntersect on of the extens on of the ex st ng curbl nes or pavement edges or f unpaved, the edge of the traveled surface, of the street and alley, and extend ng a d stance of 15 feet along the edge of each street. Th s def nes two s des of the tr angle. The th rd s de s a l ne connect ng the end po nts of the s des descr bed above.

d) V s b l ty from the ntersect on of any two alleys shall be unobstructed above the he ght of 2 1/2 feet and below f ve feet w th n the tr angle descr bed as beg nn ng from a po nt at the ntersect on of the extens on of the ex st ng curbl nes or pavement edges of the two alleys, and extend ng a d stance of ten feet along the edge of each alley. Th s def nes two s des of the tr angle. The th rd s de s a l ne connect ng the end po nts of the two s des descr bed above.

Code 1976, § 14:4-6)

Cross reference(s) Traff c and veh cles, ch. 30.

Sec. 4 48. isua obs ruc ions dec ared a nuisance.

bstruct ons to v s on descr bed n sect on 24-47 are hereby def ned as and declared a nu sance.

Code 1976, § 12-1311)

Sec. 4 49. Fai ure o aba e af er no ice.

The c ty manager or des gnee are hereby author zed and d rected to g ve by ma l addressed to the last known address of owners or occupants of prem ses regulated under th s art cle, a not ce to abate such nu sance. Fa lure to remove such obstruct ons, w th n ten days after del very of such wr tten not ce, shall be a separate v olat on of th s art cle.

Code 1976, § 12-1312)

Sec. 4 50. Pub ic proper y defacing or in uring.

o person shall cut, carve, mark, etch or engrave any character, f gure, letter or name upon any bu ld ng owned, occup ed or used by the c ty, or shall n any manner mar, deface or njure any tree, shrub, plant, v ne, or any other publ c property, n, on or around the grounds upon wh ch such bu ld ng s s tuated.

Code 1976, § 12-1313)

Sec. 4 5 . Sweepin lea es int street pr hibited.

No person shall sweep or otherw se depos t leaves grass cl pp ngs or other yard waste onto any s dewalk publ c property or publ c way. V olat on of th s prov s on s declared a nu sance under sect on 12-31.
(Ord. No. 2260-03 12-1-03)

Secs. 4 5 4 90. Reser ed.

ARTICLE IV. DEDICATION OF STREETS AND ALLEYS

Sec. 4 9 . Pr ced re req ired.

The follow ng procedure s hereby establ shed to govern the acceptance by the c ty counc l of conveyances for the purpose of ded cat ng publ c streets or alleys w th n the c ty when such ded cat on s not n connect on w th the f l ng of a subd v s on plat

(1) *Auditor's subdivisions and registered land surveys.* No street or alley des gnated as such on a county aud tor's subd v s on plat or a reg stered land survey shall be deemed to be a publ c street or alley of the c ty unt l a conveyance ded cat ng the same to the c ty shall have been accepted by the c ty counc l and f led for record n the off ce of the reg ster of deeds or reg strar of t tles.

(2) *Application to dedicate.* Any person propos ng to ded cate any street or alley by conveyance to the c ty shall make a request n wr t ng for the same to the c ty manager who shall nvest gate the necess ty and des rab l ty for the proposed street or alley and report recommendat ons to the c ty counc l. The appl cat on shall be accompan ed by a plat or map of the proposed street or alley. The counc l may refer the appl cat on to the plann ng comm ss on for ts adv ce.

(3) *Title documents.* The appl cant for ded cat on of a street or alley shall subm t w th the appl cat on an abstract of t tle owner's dupl cate cert f cate of t tle or such other ev dence of the ownersh p of the prem ses as shall be sat sfactory to the c ty attorney.

(4) *Reference to engineer.* The c ty manager shall furn sh the c ty eng neer w th a copy of the appl cat on and plat and the c ty eng neer shall nvest gate and determ ne the ex st ng grade of the land to be ded cated and shall report to the counc l n wr t ng recommendat ons w th respect to dra nage establ shment of permanent grade and surfac ng of the proposed street or alley and any other publ c mprovements deemed appropr ate.

(5) *rading and stabilizing may be required.* The c ty counc l as a cond t on to acceptance of a conveyance of a street or alley may requ re that the owner shall cause the street or alley to be graded and stab l zed to such grade as shall be establ shed by the counc l and to cause such other mprovements for streets n a subd v s on plat as the counc l shall deem proper or n l eu thereof may requ re the owner to enter nto a contract for such grad ng and stab l z ng and other mprovements at no cost to the c ty and that the owner furn sh a publ c contractor's bond to guarantee performance of the contract. n add t on thereto the c ty counc l may requ re releases from adjo n ng property owners for any damage that may result from any change of grade to the street or alley.

(6) *Not a l cable to certa ded cat o s* The oregoing regulations will not be applicable with respect to conve ances dedicating streets or alle s secured at the request o the cit , or in cases where streets or alle s are acquired b condemnation proceedings, or b dedication on subdivision plats approved b the cit council.

(7) *Fee* The ee required b section 24-92 shall be paid to the cit treasurer.

(Code 1976, § 6-101)

Sec. 24-92. Street dedications.

Upon acceptance o an deed trans erring title o propert to the cit or street or alle purposes when initiated b a private propert owner, the cit council ma require the grantor to pa the cit treasurer the cost o recording such deeds, plus the sum set rom time to time b the cit and listed in appendix o this Code.
(Code 1976, § 6-102)

Secs. 24-93--24-120. Reserved.

AR I LE V. VA A ION OR DIS ON INUAN E

Sec. 24-121. Required procedure.

o public utilit easement, public highwa , street or alle within the corporate limits o the cit shall be vacated or discontinued except in con ormit with the ollowing procedural requirements:

(1) *Pet t o* Proceedings to vacate a public utilit easement, highwa , street or alle shall be commenced b action o the cit council on its own motion, or b recommendation o the planning commission or b a petition in writing iled with the cit clerk signed b a majorit o the owners o propert ronting upon the portion o the public utilit easement, highwa , street or alle to be vacated. I the petition requests vacation o a public utilit easement or an alle , the petition shall be signed b a majorit o the owners o propert adjacent to the easement or alle in the block where the easement or alle is situated, whether or not the petition requests vacation o the entire easement or alle .

(2) *Refere ce of et t o to ma ager a d la g comm ss o* The cit clerk shall urnish copies o the petition to the cit manager. The cit council or the cit manager ma re er the petition to the cit planning commission or recommendation.

(3) *Not ce of hear g* notice shall be published in the o icial newspaper speci ing the date and place o a hearing, which shall not be less than ten da s a ter publication o the notice, and stating that the petition has been iled, or that the council on its own motion, or on recommendation o the planning commission, proposes to vacate, and the description o the public utilit easement, highwa , street or alle , or portion thereo , the vacation or discontinuance o which is to be considered.

(4) *Hear n* . A he ime nd l ce ecified in uch no ice he ci y council h ll conduc ublic he ring on he e i ion or ro o l nd ny ime following uch he ring he ci y council m y v c e or di con inue he ublic u ili y e emen highw y ree or lley or or ion hereof in ccord nce wi h he e i ion or ro o l u on do ion of n ordin nce o h effec by vo e of le five member of he council.

(5) *Not ce of complet on.* U on he do ion of uch n ordin nce he ci y clerk h ll re re nd file wi h he coun y regi er of deed no ice required by l w.

(6) *Fee.* The fee required by ec ion 24-122 h ll be id o he ci y re urer.

(Code 1976 § 6-110)

Sec. 24-122. Street, alley and utility easement acations.

No e i ion o v c e ree lley or u ili y e emen or or ion hereof h ll be filed wi h he ci y clerk un il ho e e i ioning herefore h ll y o he ci y re urer fee e bli hed by re olu ion by he ci y council. f he council denie he e i ion h or ion of he fee h cover recording co h ll be refunded o he e i ioner.
(Code 1976 § 6-111)

Secs. 24-12 --24-150. Reser ed.

ARTICLE VI. CURBS AND GUTTERS

Sec. 24-151. Permits required to construct or remo e sidewalk or curb.

No er on h ll con ruc in ll or re ir ny idew lk curb or curb nd gu er nor cu or remove ny idew lk curb or curb nd gu er in ny ublic ree or righ -of-w y wi hin he cor or e limi of he ci y wi hou fir ob ining ermi for he me from he ci y.
(Code 1976 § 6-120)

Sec. 24-152. Permit required for dri eway.

No er on h ll con ruc or l y ou ny drivew y roviding for cce by vehicle from ublic ree of he ci y on o dj cen riv e ro er y unle here h ll h ve fir been i ued ermi by he ci y for uch drivew y cce o he ublic ree .
(Code 1976 § 6-121)

Sec. 24-15 . Application for permit.

A lic ion for ermi o con ruc re ir or remove idew lk curb or curb nd gu er or drivew y h ll be m de o he ci y on form rovided by he ci y. No uch ermi h ll be gr n ed un il he lic n h ll h ve id fee o he ci y e from ime o ime by he ci y nd li ed in endix A of hi Code. n ll c e where i i nece ry for he ci y o m ke urvey nd e gr de ke he ermi fee h ll be e from ime o ime by he ci y nd li ed in endix A of hi Code. Permi h ll ex ire ix mon h f er i u nce.
(Code 1976 § 6-122)

Sec. 2 - 5 . Dri ewa widt .

o driveway from private property crossi g a public sidewalk a d e teri g a public street of the city shall be co structed i excess of 22 feet i width for si gle-family dwelli gs a d 30 feet i width for other uses, measured at the ce ter of the sidewalk li e or at the property li e i cases where a sidewalk does ot exist. Upo a showi g of ecessity a d public co ve ie ce, the city cou cil may gra t a varia ce permit allowi g a greater width. The city shall determi e at what a gles the driveway may approach the curbli e from the sidewalk i order to provide for safe i gress a d egress to the driveway.

(Code 1976, § 6-123)

Sec. 2 - 55. Dri ewa s o er sidewalks.

Wherever it is proposed to co struct a private driveway across a public sidewalk, the city shall determi e whether the thick ess of the existi g walk is sufficie t to withsta d its use by vehicles usi g the driveway, a d if it is ot so sufficie t, the city may require the applica t to replace the sidewalk with a sidewalk i accorda ce with city specificatio s for such sidewalks. If there is o co crete sidewalk at the place where the driveway is to be co structed, such driveway shall be co structed i accorda ce with city specificatio s for sidewalk co structio . The area of all private driveways betwee curbli e a d sidewalk shall be paved a d kept paved with co crete.

(Code 1976, § 6-124)

Sec. 2 - 56. Permit required to cut curb.

o existi g curb o city streets shall be cut for driveway purposes u less a driveway permit u der this article shall have bee issued by the city, a d, if such curb is cut pursua t to such permit, the curb shall be retur ed from the curbli e to the sidewalk li e i accorda ce with directio give by the city a d attached to the permit. o such permit shall be issued except for a bo a fide driveway access from the street to adjace t property. permit shall termi ate if the driveway is o lo ger used for such access purposes, a d the curb shall be restored upo otice i writi g by the city e gi eer.

(Code 1976, § 6-125)

Sec. 2 - 57. Work to be done per cit specifications.

o perso shall co struct, i stall or repair a y sidewalk or curb a d gutter or driveway i a y public street or right-of-way of the city, u less the same shall co form to sta dard specificatio s for the same prepared by a d o file with the city e gi eer, copies of which shall be available to such perso s at the time permit is issued.

(Code 1976, § 6-127)

Secs. 2 - 58--2 - 0. eser ed.

ARTI L VII X AVATIONS

D V S ON 1. N ALLY

Se 24-191 Definitions

he f ll wing w rds terms and phrases when used in this article shall have the meanings ascribed t them in this secti n except where the c ntext clearly indicates a different meaning:

Open pits r *excavations* means any artificial excavati n f the earth within the city dug excavated r made by the rem val fr m the natural surface f the earth f s d s il sand gravel st ne r ther matter creating a depressi n r depressi ns exceeding in any ne place 2 square feet r surface area the b tt m r l west p int f which shall be tw feet r m re bel w r l wer than the level f the ad ining unexcavated land; in which depressi n pit r excavati n water may fall gather c llect and remain stagnant putrid r p lluted; r which depressi n may be r bec me danger us fr m the standp int f public safety r health r t children playing therein r thereby; r which depressi n may bec me a public nuisance r deteri rate the value f ad acent pr perty. Depressi ns pits r excavati ns made f r the purp se f the f undati n cellar r basement f s me immediately pending superstructure t be erected built r placed there n c ntemp rane usly with r immediately f ll wing such excavating and c vering r t c ver such excavated pit r depressi n when c mpleted are excepted if a building permit has been issued.

(C de 1976 § 13-63)

ross referen e(s)--Definiti ns generally § 1-2.

Se 24-192 Permit

(a) *Required.* N pers n shall hereafter dig excavate make r maintain within the city any pen pit r excavati n r enlarge the same with ut first btaining fr m the city a permit t d s .

(b) *Application.* Applicati n f r such permit shall be made in such f rm and the applicant shall furnish such inf rmati n as shall be required by the city and am ng ther things shall state the full and true name and address f the applicant; the descripti n f the l cati n f the land where such pit r excavati n is r is t be dug excavated made r maintained; what the purp se area and depth f such pit r excavati n is r is t be; the estimated quantity f excavated matter t be rem ved (if any) fr m the premises; the highway streets r ther public ways in the city up n and al ng which such material f r rem val is t be hauled r carried; and the time as near as may be when such new excavating will c mmence and be finished. he city may require a map r plat f such pr p sed pit r excavati n t be made and filed with the applicati n bef re acting n the same sh wing its c nfines r limits t gether with its pr p sed depth at different parts.

State law referen e(s)--Auth rity t regulate danger us excavati ns M.S.A. § 471.92.

(c) *Fee* Th f f r an xca ati n rmit in an am unt a t fr m tim t tim by th city and li t d in a ndix f thi C d hall acc m any th a licati n.

(C d 1976, §§ 13-631--13-633)

Sec. 24 193. Regulations.

Th city, a a r r qui it t th granting f a rmit, r aft r a rmit ha b n grant d, may r quir th a licant t wh m uch rmit i u , t :

(1) Pr rly f nc any it r xca ati n;

(2) Sl th bank , and th rwi guard and k any it r xca ati n in uch c nditi n a n t t b dang r u fr m ca ing r liding bank ;

(3) Pr rly drain, fill in r l l any it r xca ati n a t mak th am af and h althful, a th city hall d t rmin ;

(4) any it r xca ati n within th limit f r which th articular rmit i grant d; and

(5) R m xca at d mat rial fr m any uch it r xca ati n, away fr m th r mi , u n and al ng uch highway , tr t r th r ublic way a th city hall rd r and dir ct.

(C d 1976, § 13-634)

Sec. 24 194. Nuisances.

(a) Each rmit i u d und r thi articl i i u d u n c nditi n that n nui anc hall b rmitt d u n th lic n d r mi , and wh n any uch n it r xca ati n, r rati n in c nn cti n th r with, hall b uch a t int rf r mat rially with h alth r rdinary hy ical c mf rt f l li ing in th n ighb rh d, b cau f du t, dirt, n i , tagnant r d accumulati n f wat r, r ibrati n, r hall b uch a t mat rially d r ciat th alu f r id nc , h m r acant land f r u a r id nc and h u , th n uch n it, xca ati n, r rati n in c nn cti n th r with, hall b d m d a nui anc . Th city may canc l any rmit i u d t dig, xca at , mak r maintain any n it, xca ati n r rati n in c nn cti n th r with, wh n th am i d m d a nui anc .

(b) Wh n r a licati n i mad f r rmit t dig, xca at , mak r maintain any n it r xca ati n, r rati n in c nn cti n th r with, and th city hall d t rmin that at th tim r lac f r which a licati n i mad , that which i c nt m lat d by th a licant, hall b c m a nui anc , th city may d ny uch a rmit.

(C d 1976, § 13-636)

Cross reference(s) ui anc , § 12-31 t q.

Secs. 24 195 24 250. Reserved.

e . 24-25 . Fi di g , purpo e, a d i te t.

To provide for he heal h safe y and welfare of i s ci izens and o ensure he in egri y of i s s ree s and he appropria e use of he righ s-of-way he ci y s rives o keep i s righ s-of-way in a s a e of good repair and free from unnecessary encumbrances.

Accordingly he ci y hereby enac s his chap er of his Code rela ing o righ s-of-way permi s and adminis ra ion. This chap er imposes reasonable regula ion on he placemen and main enance of facili ies and equipmen curren ly wi hin i s righ s-of-way or o be placed herein a some fu ure ime. is in ended o complemen he regula ory roles of s a e and federal agencies. Under his chap er persons excava ing and obs ruc ing he righ s-of-way will bear financial responsibili y for heir work. This chap er provides for recovery of ou -of-pocke and projec ed cos s from persons using he public righ s-of-way.

This chap er shall be in erpre ed consis en ly wi h 1997 Minneso a Session Laws Chap er 123; and 2017 Minneso a Session Laws Chap er 94 subs an ially codified in Minneso a S a u es 237.16, 237.162, 237.163, 237.79, 237. 1, a d 23 .0 6 (the "Act") a d the other laws governing applicable righ s of he ci y and users of he righ -of-way. This chap er shall also be in erpre ed consis en wi h Minneso a ules 7819.0050—7819.9950 and Minneso a ule Chap er 7560 where possible. To he ex en any provisions of his chap er canno be in erpre ed consis en ly wi h he Minneso a ules ha in erpre a ion mos consis en wi h he Ac and o her applicable s a u ory and case law is in ended. This chap er shall no be in erpre ed o limi he regula ory and police powers of he ci y o adop and enforce general ordinances necessary o pro ec he heal h safe y and welfare of he public.

e . 24-252. Ele tio to ma age the publi right -of-way.

Pursuan o he au hori y gran ed o he ci y under s a e and federal s a u ory adminis ra ive and common law he ci y hereby elec s pursuan o Minneso a S a u es Sec ion 237.163 subd. 2(b) o manage righ s-of-way wi hin i s jurisdic ion.

e . 24-25 . Defi itio .

The following defini ions apply in his chap er of his Code. efere ces hereafter to "sectio s" are unless o herwise specified references o sec ions in his chap er. efined erms remain defined erms whe her or no capi alized.

Ab do ed f ci i A facili y no longer in service or physically disconnec ed from a por ion of he opera ing facili y or from any o her facili y ha is in use or s ill carries service. A facili y is no abandoned unless declared so by he righ -of-way user.

App ic Any person reques ing permission o excava e or obs ruc a righ -of-way or o place a small wireless facili y or wireless suppor s ruc ure in he public righ -of-way.

i The Ci y of S . Louis Park Minneso a. For purposes of Sec ion 24.279 ci y also means he city's elected officials, officers, employees a d age ts.

Colloca e or colloca on. To i st ll, mo t, m i t i , modify, oper te, or repl ce sm ll wireless f cility o , der, withi , or dj ce t to existi g wireless s pport str ct re th t is ow ed priv tely or by loc l gover me t it.

Co ss on. The St te P blic Utilities Commissio .

Conges ed r gh -of-way. crowded co ditio i the s bs rf ce of the p blic right-of-w y th t occ rs whe the m xim m l ter l sp ci g betwee existi g dergro d f cilities does ot llow for co str ctio of ew dergro d f cilities witho t si g h d diggi g to expose the existi g l ter l f cilities i co form ce with Mi esot St t tes, Sectio 216D.04 s bdivisio 3, over co ti o s le gth i excess of 500 feet.

Cons ruc on perfor ance bond. y of the followi g forms of sec rity provided t permittee's option:

- I divid l project bo d;
- C sh deposit;
- Sec rity of form listed or pproved der Mi esot St t tes Sectio 15.73, S bdivisio 3;
- etter of Credit, i form ccept ble to the city;
- Self-i s r ce, i form ccept ble to the city;
- bl ket bo d for projects withi the city, or other form of co str ctio bo d, for time specified d i form ccept ble to the city.

egrada on. decre se i the sef l life of the right-of-w y c sed by exc v tio i or dist rb ce of the right-of-w y, res lti g i the eed to reco str ct s ch right-of-w y e rlier th wo ld be req ired if the exc v tio or dist rb ce did ot occ r.

egrada on cos . S bject to Mi esot R les 7 19.1100 me s the cost to chieve level of restor tio , s determi ed by the city t the time the permit is iss ed, ot to exceed the m xim m restor tio show i pl tes 1 to 13, set forth i Mi esot R les p rts 7 19.9900 to 7 19.9950.

egrada on fee. The estim ted fee est blished t the time of permitti g by the city to recover costs ssoci ted with the decre se i the sef l life of the right-of-w y c sed by the exc v tio , d which eq ls the degr d tio cost.

epar en . The City of St. o is P rk E gi eeri g Dep rtme t

rec or. The E gi eeri g Director for the City of St. o is P rk.

elay penal y. The pe lty imposed s res lt of re so ble del ys i right-of-w y exc v tio , obstr ctio , p tchi g, or restor tio s est blished by permit.

E ergency. co ditio th t (1) poses d ger to life or he lth, or of sig ific t loss of property; or (2) req ires immedi te rep ir or repl ceme t of f cilities i order to restore service to c stomer.

Equ p en . y t gible sset sed to i st ll, rep ir, or m i t i f cilities i y right-of-w y.

Excava e. To dig i to or i y w y remove or physic lly dist rb or pe etr te y p rt of right-of-w y.

Exca at o perm t The erm t wh ch ursuant to th s cha ter must be obta ned before a erson may excavate n a r ght-of-way An xcavat on Perm t allows the holder to excavate that art of the r ght-of-way descr bed n such erm t

Exca at o perm t fee Money a d to the c ty by an a l cant to cover the costs as rov ded n sect on 24 263

Fac l ty or fac l t es Any tang ble asset n the r ght-of-way requ red to rov de Ut l ty Serv ce

F e-year project pla Shows rojects ado ted by the c ty for construct on w th n the next f ve years

H gh de s ty corr dor A des gnated ort on of the ubl c r ght-of-way w th n wh ch telecommun cat ons r ght-of-way users hav ng mult le and com et ng fac l t es may be requ red to bu ld and nstall fac l t es n a common condu t system or other common structure

Hole An excavat on n the avement w th the excavat on hav ng a length less than the w dth of the avement

Local represe tat e A local erson or ersons or des gnee of such erson or ersons author zed by a reg strant to acce t serv ce and to make dec s ons for that reg strant regard ng all matters w th n the sco e of th s cha ter

Ma ageme t costs The actual costs the c ty ncurs n manag ng ts r ghts-of-way nclud ng such costs f ncurred as those assoc ated w th reg ster ng a l cants; ssu ng rocess ng and ver fy ng r ght-of-way or small w reless fac l ty erm t a l cat ons; ns ect ng job s tes and restorat on rojects; ma nta n ng su ort ng rotect ng or mov ng user fac l t es dur ng r ght-of-way work; determ n ng the adequacy of r ght-of-way restorat on; restor ng work nadequately erformed after rov d ng not ce and the o ortun ty to correct the work; and revok ng r ght-of-way or small w reless fac l ty erm ts Management costs do not nclude:

(1) Payment by a telecommun cat ons r ght-of-way user for the use of the ubl c r ght-of-way;

(2) Unreasonable fees of a th rd- arty contractor used by the c ty as art of manag ng ubl c r ght-of-way nclud ng but not l m ted to any th rd- arty contractor fee t ed to or based u on customer counts access l nes revenue generated by the telecommun cat ons r ght-of-way user or revenue generated for the c ty; or

(3) The fees and cost of l t gat on relat ng to the nter retat on of M nnesota Sess on Laws 2017 Cha ter 94; M nnesota Statutes Sect ons 237 162 or 237 163; or any ord nance enacted under those sect ons; or the c ty fees and costs related to a eals taken ursuant to Sect on 24 287 of th s cha ter

M cro w reless fac l ty A small w reless fac l ty that s no larger than 24 nches long 15 nches w de and 12 nches h gh and whose exter or antenna f any s no longer than 11 nches

O struct To lace any tang ble object n a r ght-of-way so as to h nder free and o en assage over that or any art of the r ght-of-way

O struct o perm t The erm t wh ch ursuant to th s cha ter must be obta ned before a erson may obstruct a r ght-of-way allow ng the holder to h nder free and o en assage over the s ec f ed ort on of that r ght-of-way for the durat on s ec f ed there n

Obst u ti n pe mit ee. M ne paid t the cit b permittee t c ver the c sts as pr vided in secti n 24.263.

P t h p t hing. meth d f pavement replacement that is temp rar in nature. patch c nsists f (1) the c mpacti n f the subbase and aggregate base, and (2) the replacement, in kind, f the existing pavement f r a minimum f tw feet be nd the edges f the excavati n in all directions. A patch is considered full restoration only when the pa ement is included in the city s five- ear pr ject plan.

P vement. n t pe f impr ved surface that is within the public right- f-wa and that is paved r therwise c nstructed with bitumin us, c ncrete, aggregate, r gravel.

Pe mit. Has the meaning gi en "right- f-way permit" in Minnesota Statues, Section 237.162 and includes a small wireless facilit permit.

Pe mittee. n pers n t wh m a permit t excavate r bstruct a right- f-wa r t wh m a small wireless facilit permit has been granted b the cit under this chapter.

Pe s n. n individual r entit subject t the laws and rules f this state, h wever rganized, whether public r private, whether d mestic r f reign, whether f r pr fit r n npr fit, and whether natural, c rp rate, r p litical.

Regist nt. n pers n wh (1) has r seeks t have its equipment r facilities l cated in an right- f-wa , r (2) in an wa ccupies r uses, r seeks t ccup r use, the right- f-wa r place its facilities r equipment in the right- f-wa .

Rest e est ti n. The pr cess b which an excavated right- f-wa and surr unding area, including pavement and f undati n, is returned t the same c nditi n and life expectanc that existed bef re excavati n.

Publi ight- -w y ight- -w y. The area n, bel w, r ab ve a public r adwa , alle wa , highwa , street, cartwa , bic cle lane r public sidewalk in which the cit has an interest, including ther dedicated rights- f-wa f r travel purp ses and utilit easements f the cit . right- f-wa d es n t include the airwaves ab ve a right- f-wa with regard t cellular r ther n nwire telec mmunicati ns r br adcast service. (te: this definiti n d es n t include ther public gr unds that ma be the subject f ther cit requirements.)

Right- -w y pe mit/sm ll wi eless ility pe mit. Either an excavati n permit r an bstructi n permit r a permit t place a small wireless facilit in the public right- f-wa r an c mbinati n f the three depending n c ntext, required b this chapter.

Right- -w y use . (1) telec mmunicati ns right- f-wa user as defined b Minnes ta Statutes Secti n 237.162 Subdivisi n 4; r (2) a pers n wning r c ntr lling a facilit in the right- f-wa that is used r intended t be used f r pr viding utilit service, and wh has a right under law, franchise, r rdinance t use the public right- f-wa .

Se vi e utility se vi e. Includes (1) th se services pr vided b a public utilit as defined in Minnes ta Statutes Secti n 216B.02 Subdivisi ns 4 and 6; (2) services f a telec mmunicati ns right- f-wa user, including transp rting f v ice r data inf rmati n; (3) services f a cable c mmunicati ns s stem as defined in Minnes ta Statutes Chapter 238; (4) natural gas r electric energ r telec mmunicati ns services pr vided b the cit ; (5) services pr vided b a c perative electric ass ciati n rganized under Minnes ta Statutes Chapter 308 ; and (6) water, and sewer, including service laterals, steam, c ling r heating services.

Serv ce a era . An nde g o nd acility that is sed to t ansmit, dist ib te o nish "gas, elec rici y communica ions or wa er from a common source o an end-use cus omer. A service la eral is also an underground facili y ha is used in the emoval o wastewate om a c stome 's premises.

Sma w re ess fac y.

(1) A wireless facili y ha mee s bo h of he following qualifica ions:

(i) ach an enna is loca ed inside an enclosure of no more han si cubic fee in volume or in he case of an an enna ha has e posed elemen s he an enna and all i s e posed elemen s could fi wi hin an enclosure of no more han si cubic fee ; and

(ii) All o her wireless equipmen associa ed wi h he small wireless facili y e cluding elec ric me ers concealmen elemen s elecommunica ions demarca ion bo es ba ery bac up power sys ems grounding equipmen power ransfers swi ches cu off swi ches cable condui ver ical cable runs for connec ion of power and o her services and any equipmen concealed from public view wi hin or behind an e is ing s ruc ure or concealmen is in aggrega e no more han 28 cubic fee in volume; or

(2) A micro wireless facili y.

Sma w re ess fac y perm fee. Money paid o he ci y by permi ee o cover he cos s as provided in sec ion 24.263.

Supp emen ary app ca on. An applica ion made o e cava e or obs ruc more of he righ -of-way han allowed in or o e end a permi ha had already been issued.

Te ecommun ca on r gh -of-way user. A person owning or con rolling a facili y in he public righ -of-way or see ing o own or con rol a facili y in he public righ -of-way ha is used or is in ended o be used for providing wireless service or ranspor ing elecommunica ion or o her voice or da a informa ion. For purposes of his division a cable communica ion sys em defined and regula ed under Minneso a S a u es Chap er 238 and elecommunica ion ac ivi ies rela ed o providing na ural gas or elec ric energy services a public u ili y as defined in Minneso a S a u es Sec ion 216B.02 a municipali y a municipal gas or power agency organized under Minneso a S a u es Chap ers 453 and 453A or a coopera ive elec ric associa ion organized under Minneso a S a u es Chap er 308A are no elecommunica ions righ -of-way users e cep o he e en hese en i ies are offering wireless services.

Temporary surface. The compac ion of subbase and aggrega e base and replacemen in ind of he e is ing pavemen only o he edges of he e cava ion. is emporary in na ure e cep when the eplacement is o pavement incl ded in the city's two-year plan in which case i is considered full res ora ion.

Trench. An e cava ion in he pavemen wi h he e cava ion having a leng h equal o or grea er han he wid h of he pavemen .

Two year projec p an. Shows projec s adop ed by he ci y for cons ruc ion wi hin he ne wo years.

Utility ol . ole t at i u ed i w ole or i art to facilitate telecommu icatio or electric ervice.

Wir l ss facility. Equi me t at a fixed locatio t at e a le t e rovi io of wirele ervice etwee u er a d equi me t a d a wirele ervice etwork, i cludi g: (1) equi me t a ociated wit wirele ervice; (2) a radio tra ceiver, a te a, coaxial or fi er-o tic ca le, regular a d acku ower u lie , a d com ara le equi me t, regardle of tec ological co figuratio ; a d (3) a mall wirele facility. Wirele facility doe ot i clude: (1) wirele u ort tructure , (2) wireli e ack aul facilitie , or (3) coaxial or fi er-o tic ca le etwee utility ole or wirele u ort tructure , or t at are ot ot erwi e immediately adjace t to or directly a ociated wit a ecific a te a.

Wir l ss s rvic . y ervice u i g lice ed or u lice ed wirele ectrum, i cludi g t e u e of Wi-Fi w et er at a fixed locatio or y mea of a mo ile device t at i rovided u i g wirele facilitie . Wirele ervice doe ot i clude ervice regulated u der Title VI of t e Commu icatio ct of 1934, a ame ded, i cludi g a ca le ervice u der U ited State Code, title 47, ectio 522 clau e (6).

Wir l ss su ort structur . ew or exi ti g tructure i a u lic rig t-of-way de ig ed to u ort or ca a le of u orti g mall wirele facilitie , a rea o a ly determi ed y t e city.

Wir lin backhaul facility. facility u ed to tra ort commu icatio data y wire from a wirele facility to a commu icatio etwork.

Sec. 24-254. Ad i istratio .

T e director i t e ri ci al city official re o i le for t e admi i tratio of t e rig t -of-way, rig t-of-way ermit , mall wirele facility ermit , a d t e ordi a ce related t ereto. T e director may delegate a y or all of t e dutie ereu der.

Sec. 24-255. Registratio a d right-of-way occupa cy.

(1) *R gistration.* Eac er o w o occu ie or u e , or eek to occu y or u e, or eek to lace a y equi me t or facilitie , mall wirele facilitie , or wirele u ort tructure i or o t e rig t-of-way, i cludi g er o wit i tallatio a d mai te a ce re o i ilitie y lea e, u lea e or a ig me t, mu t regi ter wit t e city. Regi tratio will co i t of rovidi g a licatio i formatio .

(2) *R gistration rior to work.* o er o may collocate, co truct, i tall, re air, remove, relocate, or erform a y ot er work o , or u e a y facilitie , mall wirele facilitie , or wirele u ort tructure , or a y art t ereof, i a y rig t-of-way wit out fir t ei g regi tered wit t e city.

(3) *Exc tions to r gistration.* ot i g erei all e co trued to re eal or ame d t e rovi io of a city ordi a ce ermitti g er o to la t or mai tai oulevard la ti g or garde i t e area of t e rig t-of-way etwee t eir ro erty a d t e treet cur . Per o la ti g or mai tai i g oulevard la ti g or garde all ot e deemed to u e or occu y t e rig t-of-way, a d all ot e required to o tai a y ermit or ati fy a y ot er requireme t for la ti g or mai tai i g uc oulevard la ti g or garde u der t i c a ter. However, ot i g erei relieve a er o from com lyi g wit t e rovi io of t e Mi e ota Statute C a ter 216D, Go er e Call aw.

Sec. 4 5 . Regis ra i n inf r a i n.

(1) *Information re uired.* The information provided to the city at the time of registration shall include but not be limited to:

(a) ach registrant's name Gopher One-Call registration certificate number address and e-mail address if applicable and telephone and facsimile numbers.

(b) The name address and e-mail address if applicable and telephone and facsimile numbers of a local representative. The local representative or designee shall be available at all times. Current information regarding how to contact the local representative in an emergency shall be provided at the time of registration.

(c) A certificate of insurance or self-insurance:

i. Verifying that an insurance policy has been issued to the registrant by an insurance company licensed to do business in the State of Minnesota or a form of self-insurance acceptable to the city;

ii. Verifying that the registrant is insured against claims for personal injury including death as well as claims for property damage arising out of the (i) use and occupancy of the right-of-way by the registrant its officers agents employees and permittees and (ii) placement and use of facilities and e uipment in the right-of-way by the registrant its officers agents employees and permittees including but not limited to protection against liability arising from completed operations damage of underground facilities and collapse of property;

iii. Naming the city as an additional insured as to whom the coverages re uired herein are in force and applicable and for whom defense will be provided as to all such coverages;

iv. e uiring that the city be notified thirty (3) days in advance of cancellation of the policy or material modification of a coverage term;

v. ndicating comprehensive liability coverage automobile liability coverage workers compensation and umbrella coverage established by the city in amounts sufficient to protect the city and the public and to carry out the purposes and policies of this chapter.

vi. The city may re uire a copy of the actual insurance policies.

vii. f the person is a corporation a copy of the certificate is re uired to be filed under Minnesota Statutes Section 6 A. 7 as recorded and certified to by the Secretary of State.

viii. A copy of the person's order granting a certificate of authority from the Minnesota Public Utilities Commission or other authorization or approval from the applicable state or federal agency to lawfully operate where the person is lawfully re uired to have such authorization or approval from said commission or other state or federal agency.

(2) *N t c f chan s.* T e re istrant s all keep all of t e information listed above c rrent at all times by providin to t e city information as to c an es wit in fifteen (15) days followin t e date on w ic t e re istrant as knowled e of any c an e.

Sec. 24-257. Reporting obligations.

(1) *Op rat ns*. Eac re istrant s all, at t e time of re istration and by December 1 of eac year, file a constr ction and major maintenance plan for nder ro nd facilities wit t e city. S c plan s all be s bmitted sin a format desi nated by t e city and s all contain t e information determined by t e city to be necessary to facilitate t e coordination and red ction in t e freq ency of excavations and obstr ctions of ri ts-of-way. T e plan s all incl de

(a) T e locations and estimated be innin and endin dates of all projects to be c mmenced during the next calendar year (in this secti n, a "next-year" pr ject); and

(b) To t e extent known, t e tentative locations and estimated be innin and endin dates for all projects contemplated for t e five years followin t e next calendar year (in this secti n, a "five-year pr ject").

The term "pr ject" in this secti n shall include b th next-year projects and five-year projects.

By an ary 1 of eac year, t e city will ave available for inspecti n in the city's ffice a composite list of all projects of w ic t e city as been informed of t e ann al plans. ll re istrants are responsible for keepin t emselves informed of t e c rrent stat s of t is list.

T ereafter, by Febr ary 1, eac re istrant may c an e any project in its list of next-year projects, and m st notify t e city and all ot er re istrants of all s c c an es in said list. otwit standin t e fore oin , a re istrant may at any time join in a next-year project of anot er re istrant listed by t e ot er re istrant.

(2) *Add t nal n t y ar pr j cts.* otwit standin t e fore oin , t e city will not deny an application for a ri t-of-way permit for fail re to incl de a project in a plan s bmitted to t e city if t e re istrant as sed commercially reasonable efforts to anticipate and plan for t e project.

Sec. 24-258. Permit requirement.

(1) *r t r r d.* Except as ot erwise provided in t is Code, no person may obstr ct or excavate any ri t-of-way wit o t first avin obtained t e appropriate ri t-of-way permit from t e city to do so.

(a) *E ca at n p r t.* n excavation permit is req ired by a re istrant to excavate t at part of t e ri t-of-way described in s c permit and to inder free and open passa e over t e specified portion of t e ri t-of-way by placin facilities described t erein, to t e extent and for t e d ration specified t erein.

(b) *Obstr ct n p r t.* n obstr ction permit is req ired by a re istrant to inder free and open passa e over t e specified portion of t e ri t-of-way by placin eq ipment described t erein on t e ri t-of-way, to t e extent and for t e d ration specified t erein. n obstr ction permit is not req ired if a person already possesses a valid excavation permit for t e same project.

(2) *e m t extens ns.* No er on may excavate or ob truct the right-of-way beyon the ate or ate ecifie in the ermit unle (i) uch er on make a u lementary a lication for another right-of-way ermit before the ex iration of the initial ermit an (ii) a new ermit or ermit exten ion i grante .

(3) *Delay penalty.* n accor ance with Minne ota ule 7819.1000 ub art 3 an notwith tan ing aragra h 2 of thi ection the city hall e tabli h an im o e a elay enalty for unrea onable elay in the right-of-way excavation ob truction atching or re toration. The elay enalty hall be e tabli he from time to time by city council re olution.

(4) *e m t d splay.* Permit i ue un er thi cha ter hall be con icuou ly i laye or otherwi e available at all time at the in icate work ite an hall be available for in ection by the city.

Sec. 24-259. Small wireless facili y ermi requiremen .

(1) *Small w eless fac l ty pe m t.* xce t a otherwi e rovi e in thi Co e no er on may in tall a new or re lacement wirele u ort tructure for a mall wirele facility or collocate a mall wirele facility in a ublic right of way without fir t having obtaine the a ro riate mall wirele facility ermit from the city to o o.

(2) *Te m.* The term of a mall wirele facility ermit hall be equal to the length of time that the mall wirele facility i in u e unle the ermit i revoke .

(3) *e m t d splay.* Permit i ue un er thi cha ter hall be con icuou ly i laye or otherwi e available at all time at the in icate work ite an hall be available for in ection by the city.

(4) *Spec al except ns f small w eless fac l t es.* A require by tate law a er on i not require to ay a mall wirele facility ermit fee obtain a mall wirele facility ermit or enter into a mall wirele facility collocation agreement olely in or er to con uct any of the following activitie :

(a) outine maintenance of a mall wirele facility;

(b) e lacement of mall wirele facility with a new facility that i ub tantially imilar or maller in ize weight height an win or tructural loa ing than the mall wirele facility being re lace ; or

(c) n tallation lacement maintenance o eration or re lacement of micro wirele facilitie that are u en e on cable trung between exi ting utility ole in com liance with national afety co e .

Per on that erform the e exce te activitie hall rovi e the city a vance notification of the e activitie if the work will ob truct a ublic right-of-way.

Sec. 4 6 . Permi app ica ion .

pplication for a permit under thi chapter i made to the city. Excavation, ob truction, and mall wirele facility permit application hall contain, and will be con idered complete only upon compliance with, the requirement of the following provi ion :

(1) Regi tration with the city pur uant to thi chapter;

(2) Submi ion of a completed permit application form, including all required attachment , and caled drawing howing the location and area of the propo ed project and the location of all known exi ting and propo ed facilitie .

(3) Payment of money due the city for:

(a) Permit fee , e timated re toration co t and other management co t ;

(b) Prior ob truction or excavation ;

(c) ny undi puted lo , damage, or expen e uffered by the city becau e of applicant' prior excavation or ob truction of the right -of-way or any emergency action taken by the city;

(d) Franchi e fee or other charge , if applicable.

(4) Payment of di puted amount due the city by po ting ecurity or depo iting in an e crow account an amount equal to at lea t 110% of the amount owing.

(5) Po ting an additional or larger con truction performance bond for additional facilitie when applicant reque t a permit to in tall additional facilitie and the city deem the exi ting con truction performance bond inadequate under applicable tandard .

Sec. 4 61. I uance of permi ; condi ion .

(1) *Permi i uance.* If the applicant ha ati fied the requirement of thi chapter, the city hall i ue a permit.

(2) *Condi ion .* The city may impo e rea onable condition upon the i uance of the permit and performance of the applicant thereunder to protect the health, afety, and welfare or when nece ary to protect the right-of-way and it current u e. In addition, a permittee hall comply with all requirement of local, tate, and federal law , including but not limited to Minne ota Statute ection 216D.01-.09 (Gopher ne Call Excavation otice Sy tem) and Minne ota Rule chapter 7560.

(3) *Small wirele facili y condi ion .* In addition to ubdivi ion 2, the erection or in tallation of a wirele upport tructure, the collocation of a mall wirele facility, or other in tallation of a mall wirele facility in the right-of-way, hall be ubject to the following condition :

(a) mall wirele facility hall only be collocated on the particular wirele upport tructure, under tho e attachment pecification , and at the height indicated in the applicable permit application.

(b) o wirele upport tructure in talled within the right of way hall exceed 50 feet above ground level in height except that a wirele upport tructure that replace an exi ting wirele upport tructure in the public right-of-way that i greater than 50 feet above ground level in height may be placed at the height of the exi ting wirele upport tructure.

(c) N w r l ss fac l y c ns r c d n h r h - f-way af r May 30 2017 may x nd m r han n f ab v a w r l ss s pp r s r c r x s n n May 30 2017.

(d) Wh r an appl can pr p s s ns all a n w w r l ss s pp r s r c r n h r h f way h c y may mp s s para n r q r m n s b w n s ch s r c r and any x s n w r l ss s pp r s r c r r h r fac l s n and ar nd h r h f way.

( ) Wh r an appl can pr p s s c ll ca n n a d c ra v w r l ss s pp r s r c r s n r h r s r c r n n nd d s pp r small w r l ss fac l s h c y may mp s r as nabl r q r m n s acc mm da h par c lar d s n app aranc r n nd d p rp s f s ch s r c r ;

(f) Wh r an appl can pr p s s r plac a w r l ss s pp r s r c r h c y may mp s r as nabl r s ck n r plac m n r r l ca n r q r m n s n h r plac m n f h s r c r .

(4 Small wireless facility agreement. A small w r l ss fac l y shall nly b c ll ca d n a w r l ss s pp r s r c r wn d r nd r h c n r l f h c y r any h r c y ass n h r h f way af r h appl can has x c d a s andard small w r l ss fac l y c ll ca n a r m n w h h c y. Th s andard c ll ca n a r m n may r q r paym n f h f ll w n :

(a) Mana m n c s s;

(b) Up $150 p r y ar f r r n c ll ca n h c y s r c r ;

(c) $25 p r y ar f r ma n nanc ass c a d w h h c ll ca n;

(d) A m n hly f f r l c r cal s rv c as f ll ws:

. 73 p r rad n d l ss han r q al 100 max m m wa s;

. $182 p r rad n d v r 100 max m m wa s; r

. Th ac al c s f l c r c y f h ac al c s s xc d h f r n .

Th s andard c ll ca n a r m n shall b n add n and n n l f h r q r d small w r l ss fac l y p rm pr v d d h w v r ha h appl can shall n b add nally r q r d apply f r r n r n any nd v d al l c ns franch s r h r a r m n w h h c y n rd r c ll ca . ss anc f a small w r l ss fac l y p rm d s n s p rs d al r r aff c any h n- x s n a r m n b w n h c y and appl can .

Sec. 24-262. Time o eview o applications.

(1) *Deadline for action.* Th d r c r shall appr v r d ny a small w r l ss fac l y p rm appl ca n w h n 90-days f r c v n a c mpl d appl ca n. Th small w r l ss fac l y p rm and any ass c a d ncr achm n r b ld n p rm shall b d m d appr v d f h c y fa ls appr v r d ny h appl ca n w h n h r v w p r ds s abl sh d n h s s c n.

(2) *Consolidated applications.* An appl can may f l a c ns l da d small w r l ss fac l y p rm appl ca n addr ss n h pr p s d c ll ca n f p 15 small w r l ss fac l s r a r a r n mb r f a r d by h c y pr v d d ha all small w r l ss fac l s n h appl ca n:

(a) e o ated wit in a two-mi e adi s;

( ) Consist of s stantia y simi a eq ipment; and

( ) e to e p a ed on simi a types of wi e ess s ppo t st t es.

In ende ing a de ision on a onso idated pe mit app i ation, t e ity may app ove some sma wi e ess fa i ities and deny ot e s, t may not se denia of one o mo e pe mits as a asis to deny a sma wi e ess fa i ities in t e app i ation.

(3) *Tolling of ea line for action.* T e 90-day dead ine fo a tion may e to ed if:

(a) T e ity e eives app i ations wit in a sing e seven-day pe iod f om one o mo e app i ants seeking app ova of pe mits fo mo e t an 30 sma wi e ess fa i ities. In s ase, t e ity may extend t e 90-day dead ine fo a s app i ations y an additiona 30 days y info ming t e affe ted app i ants in w iting of s extension.

( ) T e app i ant fai s to s mit a eq i ed do ments o info mation and t e ity p ovides w itten noti e of in omp eteness to t e app i ant wit in 30 days of e eipt of t e app i ation ea y and spe ifi a y de ineating a missing do ments o info mation. Info mation de ineated in t e noti e is imited to do ments o info mation publicly required as of the date of application and reasonably related to the city's dete mination w et e t e p oposed eq ipment fa s wit in t e definition of a sma wi e ess fa i ity and w et e t e p oposed dep oyment satisfies a ea t , safety, and we fa e eg ations app i a e to t e sma wi e ess fa i ity pe mit eq est. Upon applicant's submitta of additiona do ments o info mation in esponse to a noti e of in omp eteness, t e ity as 0 days to notify t e app i ant in w iting of any info mation eq ested in t e initia noti e of in omp eteness t at is sti missing. Se ond o s seq ent noti es of in omp eteness may not spe ify do ments o info mation t at we e not de ineated in t e o igina noti e of in omp eteness. Req ests fo info mation not eq ested in t e initia noti e of in omp eteness do not to t e 90-day dead ine fo a tion.

( ) T e ity and app i ant may ag ee in w iting to to t e eview pe iod.

S c. 24-263. P rmit f s.

( ) *Excavation permit fee.* T e ity s a impose an ex avation pe mit fee in an amo nt s ffi ient to e ove t e fo owing osts:

(a) City management osts; and

( ) Deg adation osts, if app i a e.

(2) *Obstruction permit fee.* T e ity s a impose an o st tion pe mit fee in an amo nt s ffi ient to e ove ity management osts.

(3) *Small wireless facility permit fee.* T e ity s a impose a sma wi e ess fa i ity pe mit fee fo t e p a ement of sma wi e ess fa i ities and wi e ess s ppo t st t es in t e p i ig t-of-way in an amo nt s ffi ient to e ove :

(a) City management osts; and

( ) City enginee ing, make- eady, and onst tion osts asso iated wit o o ation of sma wi e ess fa i ities.

(4) *C s s ini ial ngin ring s rv y an pr para ry c ns r c i n w rk ass cia wi h c ll ca i n.* Any initial engineering urvey and preparatory con truction work a ociated with collocation mu t be paid by the co t cau er in the form of a onetime nonrecurring commercially rea onable nondi criminatory and competitively neutral charge to recover co t a ociated with a propo ed attachment.

(5) *Paym n p rmi s.* No excavation ob truction or mall wirele facility permit hall be i ued without payment of the re pective excavation ob truction or mall wirele facility permit fee . The city may allow applicant to pay uch fee within thirty (30) day of billing.

(6) *N nr n abl .* Permit fee that were paid for a permit that the city ha revoked are not refundable.

Sec. 24-264. Righ -o -way pa ching and res ora ion.

(1) *Timing.* The work to be done under the excavation permit and the patching and re toration of the right-of-way a required herein mu t be completed within the date pecified in the permit increa ed by a many day a work could not be done becau e of circum tance beyond the control of the permittee or when work wa prohibited a un ea onal or unrea onable under Section 24.267.

(2) *Pa ch an r s ra i n.* Permittee hall patch it own work. The city may choo e either to have the permittee re tore the right-of-way or re tore the right-of-way it elf.

(a) *Ci y r s ra i n.* f the city re tore the right-of-way permittee hall pay the co t thereof within thirty (30) day of billing. f following uch re toration the pavement settles due to permittee's improper back illing, the permittee shall pay to the city within thirty (30) day of billing all co t a ociated with correcting the defective work.

(b) *P rmi r s ra i n.* f the permittee re tore the right-of-way it elf it hall at the time of application for an excavation permit po t a con truction performance bond in accordance with the provi ion of inne ota ule 7 19.3000.

(c) *D gra a i n in li r s ra i n.* n lieu of right-of-way re toration a right-of-way u er may elect to pay a degradation fee. However the right-of-way u er hall remain re pon ible for patching and the degradation fee hall not include the co t to accompli h the e re pon ibilitie .

(3) *S an ar s.* The permittee hall perform excavation backfilling patching and re toration according to the tandard and with the material pecified by the city and hall comply with inne ota ule 7 19.1100.

(4) *D y c rr c c s.* The permittee hall correct defect in patching or re toration performed by permittee or it agent . The permittee upon notification from the city hall correct all re toration work to the extent nece ary u ing the method required by the city. Said work hall be completed within five (5) calendar day of the receipt of the notice from the city not including day during which work cannot be done becau e of circum tance con tituting force majeure or day when work i prohibited a un ea onable or unrea onable under Section 24.267.

(5) *Fail r R s r .* f the permittee fail to re tore the right-of-way in the manner and to the condition required by the City or fail to ati factorily and timely complete all re toration required by the City the City at it option may do uch work. n that event the permittee hall pay to the City within thirty (30) day of billing the co t of re toring the right-of-way. f permittee fail to pay a required the City may exerci e it right under the con truction performance bond.

Sec. 4 6 . Join app ica ions.

( ) *Joint application.* Reg strants may jo ntly apply for perm ts to excavate or obstruct the r ght-of-way at the same place and t me.

(2) *Shared fees.* Reg strants who apply for perm ts for the same obstruct on or excavat on, wh ch the c ty does not perform, may share n the payment of the obstruct on or excavat on perm t fee. In order to obta n a jo nt perm t, reg strants must agree among themselves as to the port on each w ll pay and nd cate the same on the r appl cat ons.

Sec. 4 66. Supp emen ary app ica ions.

( ) *imitation on area.* r ght-of-way perm t or small w reless fac l ty perm t s val d only for the area of the r ght-of-way spec f ed n the perm t. o perm ttee may do any wor outs de the area spec f ed n the perm t, except as prov ded here n. ny perm ttee wh ch determ nes that an area greater than that spec f ed n the perm t must be obstructed or excavated must before wor ng n that greater area ( ) ma e appl cat on for a perm t extens on and pay any add t onal fees requ red thereby, ( ) be granted a new perm t or perm t extens on.

(2) *imitation on dates.* r ght-of-way perm t or small w reless fac l ty perm t s val d only for the dates spec f ed n the perm t. o perm ttee may beg n wor before the perm t start date or, except as prov ded here n, cont nue wor ng after the end date. If a perm ttee does not f n sh the wor by the perm t end date, t must apply for a new perm t for the add t onal t me t needs, and rece ve the new perm t or an extens on of the old perm t before wor ng after the end date of the prev ous perm t. Th s supplementary appl cat on must be subm tted before the perm t end date.

Sec. 4 67. O her Ob iga ions.

( ) *Compliance with other laws.* bta n ng a r ght-of-way perm t or small w reless fac l ty perm t does not rel eve perm ttee of ts duty to obta n all other necessary perm ts, l censes, and author ty and to pay all fees requ red by the c ty or other appl cable rule, law, or regulat on. perm ttee shall comply w th all requ rements of local, state, and federal laws, nclud ng but not l m ted to M nnesota Statutes, Sect on 2 6D.0 -.09 (Gopher ne Call Excavat on ot ce System) and M nnesota Rules Chapter 7560. perm ttee shall perform all wor n conformance w th all appl cable codes and estabL shed rules and regulat ons, and s respons ble for all wor done n the r ght-of-way pursuant to ts perm t, regardless of who does the wor .

(2) *Prohibited work.* Except n an emergency, and w th the approval of the c ty, no r ght-of-way obstruct on or excavat on or collocat on of a small w reless fac l t es or nstallat on or ma ntenance of a w reless support structures may be done when seasonally proh b ted or when cond t ons are unreasonable for such wor .

(3) *Interference with right-of-way.* perm ttee shall not so obstruct a r ght-of-way that the natural free and clear passage of water through the gutters or other waterways shall be nterfered w th. Pr vate veh cles of those do ng wor n the r ght-of-way may not be par ed w th n or next to a perm t area, unless par ed n conformance w th c ty par ng regulat ons. The load ng or unload ng of truc s must be done solely w th n the def ned perm t area unless spec f cally author zed by the perm t.

(4) *Trenchless excavation.* s a cond t on of all appl cable perm ts, perm ttees employ ng trenchless excavat on methods, nclud ng but not l m ted to Hor zontal D rect onal Dr ll ng, shall follow all requ rements set forth n M nnesota Statutes Chapter 2 6D and M nnesota Rules Chapter 7560 and shall requ re pothol ng or open cutt ng over ex st ng underground ut l t es before excavat ng, as determ ned by the d rector.

Sec. 4 6 . Denia of ermi .

(1) *Reasons for denia .* The city may deny an application for a permit for failure to meet the requirements and conditions of this chapter or if the city determines that the denial is necessary to protect the health safety and welfare or when necessary to protect the right-of-way and its current use.

(2) *Procedura requirements.* The denial or revocation of a permit must be made in writing and must document the basis for the denial. The city must notify a telecommunications right-of-way user in writing within three business days of the decision to deny a permit. f a permit application is denied the telecommunications right-of -way user may cure the deficiencies identified by the city and resubmit its application. f the telecommunications right-of-way user resubmits the application within 30 days of receiving written notice of denial it may not be charged an additional filing or processing fee. The city must approve or deny the revised application within 30 days after the revised application is submitted.

Sec. 4 6 . Re oca ion of ermi s.

(1) *Substantia breach.* The city reserves its right as provided herein to revoke any right-of-way permit or small wireless facility permit without a fee refund if there is a substantial breach of the terms and conditions of any statute ordinance rule or regulation or any material condition of the permit. A substantial breach by permittee shall include but shall not be limited to the following:

(a) The violation of any material provision of the right-of-way permit or small wireless facility permit;

(b) An evasion or attempt to evade any material provision of the right-of-way permit or small wireless facility permit or the perpetration or attempt to perpetrate any fraud or deceit upon the city or its citizens;

(c) Any material misrepresentation of fact in the application for a right-of-way permit or small wireless facility permit;

(d) The failure to complete the work in a timely manner unless a permit extension is obtained or unless the failure to complete work is due to reasons beyond the permittee's control; or

(e) The failure to correct in a timely manner work that does not conform to a condition indicated on an order issued pursuant to Section 24.271.

(2) *Written notice of breach.* f the city determines that the permittee has committed a substantial breach of a term or condition of any statute ordinance rule regulation or any condition of the permit the city shall make a written demand upon the permittee to remedy such violation. The demand shall state that continued violations may be cause for revocation of the permit. A substantial breach as stated above will allow the city at its discretion to place additional or revised conditions on the permit to mitigate and remedy the breach.

(3) *Response to notice of breach.* Within twenty-four (24) hours of receiving notification of the breach permittee shall provide the city with a plan acceptable to the city that will cure the breach. Permittee's failure to so contact the city or permittee's failure to timely submit an acceptable plan or permittee's failure to reasonably implement the approved plan shall be cause for immediate revocation of the permit.

(4) *Rev c t n.* Rev ca i n a righ - -way permi r small wireless acili y permi shall be made in wri ing wi hin hree business days he decisi n rev ke he permi and shall d cumen he basis r he rev ca i n.

(5) *Re burse ent f c ty c sts.* I a righ - -way permi r small wireless acili y permi is rev ked, he permi ee shall als reimburse he ci y r he ci y's reas nable c s s, including res ra i n c s s and he c s s c llec i n and reas nable a rneys' ees incurred in c nnec i n wi h such rev ca i n.

Sec. 24-270. Installation requirements.

The excava i n, back illing, pa ching, and res ra i n, and all her w rk per rmed in he righ - -way shall be d ne in c n rmance wi h Minnes a Rules 78 9. and 78 9.5 and her applicable l cal requiremen s, in s ar as hey are n inc nsis en wi h Minnes a S a u es, Sec i ns 237. 62 and 237. 63. Ins alla i n service la erals shall be per rmed in acc rdance wi h Minnes a Rules Chap er 756 and hese rdinances. Service la eral ins alla i n is ur her subjec h se requiremen s and c ndi i ns se r h by he ci y in he applicable permi s and/ r agreemen s re erenced in sec i n 24.274 subdivisi n 2 his rdinance.

Sec. 24-271. Inspection.

( ) *N t ce f c plet n.* When he w rk under any permi hereunder is c mple ed, he permi ee shall urnish a c mple i n cer i ica e in acc rdance wi h Minnes a Rule 78 9. 3 .

(2) *S te nspect n.* Permi ee shall make he w rk-si e available he ci y and all hers as au h rized by law r inspec i n a all reas nable imes during he execu i n and up n c mple i n he w rk.

(3) *Auth r ty f d rect r.*

(a) he ime inspec i n, he direc r may rder he immedia e cessa i n any w rk which p ses a seri us hrea he li e, heal h, sa e y, r well-being he public.

(b) The direc r may issue an rder he permi ee r any w rk ha d es n c n rm he erms he permi r her applicable s andards, c ndi i ns, r c des. The rder shall s a e ha ailure c rrec he vi la i n will be cause r rev ca i n he permi . Wi hin en ( ) days a er issuance he rder, he permi ee shall presen pr he direc r ha he vi la i n has been c rrec ed. I such pr has n been presen ed wi hin he required ime, he direc r may rev ke he permi pursuan sec i n 24.269.

Sec. 24-272. Work done without a permit.

( ) *E ergency s tu t ns.* Each regis ran shall immedia ely n i y he direc r any even regarding i s acili ies ha i c nsiders be an emergency. The regis ran may pr ceed ake whateve action a e nece a to e pond to the eme genc . Regi t ant' noti ication to pher S a e ne Call regarding an emergency si ua i n d es n ul ill his requiremen . Wi hin w (2) business days a er he ccurrence he emergency, he regis ran shall apply r he necessary permi s, pay he ees ass cia ed herewi h, and ul ill he res he requiremen s necessary bring i sel in c mpliance wi h his chap er r he ac i ns i k in resp nse he emergency.

I he ci y bec mes aware an emergency regarding a regis ran 's acili ies, he ci y will a emp c n ac he l cal represen a ive each regis ran a ec ed, r p en ially a ec ed, by he emergency. In any even , he ci y may ake wha ever ac i n i deems necessary resp nd he emergency, he c s which shall be b rne by he regis ran wh se acili ies ccasi ned he emergency.

(2) *No - m g cy it atio .* cept in an emergency any person who witho t first having obtained the necessary permit e cavates or obstr cts or places a small wireless facility or wireless s pport str ct re in the right-of-way m st s bseq ently obtain a permit and as a penalty pay do ble the normal fee for said permit pay do ble all the other fees req ired by the city Code deposit with the city the fees necessary to correct any damage to the right-of-way and comply with all of the req irements of this chapter.

Sec. 24-273. Supplementary notification.

f the obstr ction or e cavation or the placement of a small wireless facility or wireless s pport str ct re in the right-of-way begins later or ends sooner than the date given on the permit permittee shall notify the city of the acc rate information as soon as this information is known.

Sec. 24-274. Mapping data.

( ) *fo matio q i d.* ach registrant permittee shall provide mapping information req ired by the city in accordance with Minnesota R les 78 9.4000 and 78 9.4 00. ithin ninety (90) days following completion of any work p rs ant to a permit the permittee shall provide the director acc rate maps and drawings certifying the "as-b ilt" location of all eq ipment installed owned and maintained by the permittee. S ch maps and drawings shall incl de the horizontal and vertical location of all facilities and eq ipment and shall be provided consistent with the City's electronic mapping system when practical or as a condition imposed by the director. Fail re to provide maps and drawings p rs ant to this s bsection shall be gro nds for revoking the permit holder's registration.

(2) *S vic lat al .* All permits iss ed for the installation or repair of service laterals other than minor repairs as defined in Minnesota R les 7560.0 50 s bpart 2 shall req ire the permittee’s use of appropriate mea s of establishi g the horizo tal lo atio s of i stalle service laterals and the service lateral vertical locations in those cases where the director reasonably req ires it. Permittees or their s bcontractors shall s bmit to the director evidence satisfactory to the director of the installed service lateral locations. Compliance with this s bdivision 2 and with applicable Gopher State One Call law and Minnesota R les governing service laterals installed after ecember 3 2005 shall be a condition of any city approval necessary for:

(a) Payments of contractors working on a p blic improvement project incl ding those nder Minnesota Stat tes Chapter 429; and

(b) City approval nder the development agreements or other s bdivision or site plan approval nder Minnesota Stat tes Chapter 462. The irector shall reasonably determine the appropriate method of providing s ch information to the city.

Fail re to provide prompt and acc rate information on the service laterals installed may res lt in the revocation of the permit iss ed for the work or f t re permits to the offending permittee or its s bcontractors.

Sec. 24-275. Location and relocation of facilitie .

( ) *l .* hen directed by the city a right-of-way ser shall promptly and at his her or its own e pense with d e regard for seasonal working conditions permanently remove and relocate its facilities in the right-of-way when it is necessary to prevent interference and not merely for the convenience of the city in connection with: ( ) a present or f t re City se of the right-of-way for a p blic project; (2) the p blic health or safety; or (3) the safety and convenience of travel over the right-of-way. The registrant shall restore any rights-of-way to the condition it was in prior to removal and relocation. Placement location and relocation of facilities m st comply with the Act with other applicable law and with Minnesota R les

7819. 100, 7819. 000, a d 7819. 100, to th xt t th r l s do ot l m t a thor ty oth rw s ava labl to c t s.

(2) *Reloca ion schedule no ifica ion procedures.* Th d r ctor shall ot fy th r g stra t or p rm t hold r at l ast thr mo ths adva c of th d to r locat x st g fac l t s. Th d r ctor shall prov d a s co d ot f cat o to th r g stra t or p rm t hold r o mo th b for th dat by wh ch th r locat o m st b compl t d. To th xt t t ch cally f as bl , all t l t s m st b r locat d w th o mo th or a t m fram d t rm d by th d r ctor.

( ) *Delay o ci y projec* . If th r g stra t or p rm t hold r fa ls to m t th r locat o sch d l d to c rc msta c s w th th owner's control, the city m y ch rge the owner or ll costs c rr d by th c ty b ca s th r locat o s ot compl t d th sch d l d t m fram .

(4) *Join renching.* ll fac l t s shall b plac d appropr at port o s of th r ght-of-way so as to ca s m m m co fl ct w th oth r d rgro d fac l t s. Wh t ch cally appropr at a d o saf ty hazards ar cr at d fac l t s shall b stall d, co str ct d, or plac d w th th sam tr ch. otw thsta d g th for go g, gas a d l ctr c l s shall b plac d co forma c w th M sota R l s part 7819. 100 s bpart 2, gov r g saf ty sta dards.

( ) *Corridors.* Th c ty may ass g a sp c f c ar a w th th r ght-of-way, or a y part c lar s gm t th r of as may b c ssary, for ach typ of fac l t s that ar or, p rs a t to c rr t t ch ology, th c ty xp cts w ll som day b locat d w th th r ght-of-way. ll xcavat o , obstr ct o , or oth r p rm ts ss d by th c ty volv g th stallat o or r plac m t of fac l t s shall d s g at th prop r corr dor for th fac l t s at ss . typ cal cross g section o the loc tion or utilities m y be on ile t the director's o ice. This section is not intended to est blish "high density corridors."

y r g stra t who has fac l t s th r ght-of-way a pos t o at var a c w th th corr dors stabl sh d by th c ty may r ma at that locat o t l th c ty r q r s fac l t s r locat o to th corr dor p rs a t to r locat o a thor ty gra t d d r M sota R l s part 7819. 100 or oth r appl cabl law.

(6) *Nuisance.* y ar aft r th passag of th s chapt r, a y fac l t s fo d a r ght-of-way that hav ot b r g st r d shall b d m d to b a sa c . Th c ty may x rc s a y r m d s or r ghts t has at law or q ty, cl d g, b t ot l m t d to, abat g th sa c or tak g poss ss o of th fac l t s a d r stor g th r ght-of-way to a s abl co d t o .

(7) *Limi a ion of space.* To prot ct th h alth, saf ty, a d w lfar , or wh c ssary to prot ct th r ght-of-way a d ts c rr t s , th c ty shall hav th pow r to proh b t or l m t th plac m t of w or add t o al fac l t s w th th r ght-of-way. I mak g s ch d c s o s, th c ty shall str v to th xt t poss bl to accommodat all x st g a d pot t al s rs of th r ght-of-way, b t shall b g d d pr mar ly by co s d rat o s of th p bl c t r st, th public's needs or the p rticul r utility service, the condition o the right-of-way, th t m of y ar w th r sp ct to ss t al t l t s, th prot ct o of x st g fac l t s th r ght-of-way, a d f t r c ty pla s for p bl c mprov m ts a d d v lopm t proj cts wh ch hav b d t rm d to b th p bl c t r st.

Sec. 24-27 . Pre-excava on fac l es loca on.

I add t o s to comply g w th th r q r m ts of M . Stat. § 216D.01-.09 " ne ll xc v tion otice System") be ore the st rt d te o ny right-of-way xcavat o , ach r g stra t who has fac l t s or q pm t th ar a to b xcavat d shall mark th hor zo tal a d v rt cal plac m t of all sa d fac l t s. y r g stra t whos fac l t s ar l ss tha tw ty (20) ch s b low a co cr t or asphalt s rfac shall ot fy a d work clos ly w th th xcavat o co tractor to stabl sh th xact locat o of ts fac l t s a d th b st proc d r for xcavat o .

Sec. 2 -2 . D m ge to ot er f c l t es.

en t e city does work in t e rig t-of-way and finds it necessary to aintain support or ove a registrant's facilities to protect it t e city s all notify t e local representative as early as is reasonably possible. T e costs associated t erewit will be billed to t at registrant and ust be paid wit in t irty (30) days fro t e date of billing. ac registrant s all be responsible for t e cost of repairing any facilities in t e rig t-of-way w ic it or its facilities da age. ac registrant s all be responsible for t e cost of repairing any da age to t e facilities of anot er registrant caused during t e city's response to an e ergency occasioned by t at registrant's facilities.

Sec. 2 -2 8. R g t-of-w y v c t on.

f t e city vacates a rig t-of-way that contains the facilities of a re istrant, the re istrant s rig ts in t e vacated rig t-of-way are governed by Minnesota Rules 7819.3200.

Sec. 2 -2 9. Indemn f c t on nd l b l ty.

By registering wit t e city or by accepting a per it under t is c apter a registrant or per ittee agrees to defend and inde nify t e city in accordance wit t e provisions of Minnesota Rule 7819.1250.

Sec. 2 -280. Ab ndoned nd unus ble f c l t es.

(1) *Discontinued operations.* A registrant w o as deter ined to discontinue all or a portion of its operations in t e city ust provide infor ation satisfactory to t e city t at t e registrant's obligations for its facilities in t e rig t-of-way under t is c apter ave been lawfully assu ed by anot er registrant.

(2) *Re oval.* Any registrant w o as abandoned facilities in any rig t-of-way s all re ove it fro t at rig t-of-way if required in conjunction wit ot er rig t-of-way repair excavation or construction unless t is require ent is waived by t e city.

Sec. 2 -28 . A e l.

A rig t-of-way user t at: (1) as been denied registration; (2) as been denied a per it; (3) as ad a per it revoked; or (4) believes t at t e fees i posed are not in confor ity wit Minn. Stat. § 237.163 Subd. 6; or (5) disputes a deter ination of t e director regarding Section 24.274 subdivision 2 of t is ordinance ay ave t e denial revocation fee i position or decision reviewed upon written request by t e city council. T e city council s all act on a ti ely written request at its next regularly sc eduled eeting provided t e rig t-of-way user as sub itted its appeal wit sufficient ti e to include t e appeal as a regular agenda ite . A decision by t e city council affir ing t e denial revocation or fee i position will be in writing and supported by written findings establis ing t e reasonableness of t e decision.

Sec. 2 -282. D v s on not l c ble to c ty work.

T e provisions of t is division s all not be applicable to any work being perfor ed by t e city or pursuant to a contract wit t e city.

Secs. 2 -283--2 -290. Reserved.

ARTI L VIII NUMB RIN OF BUIL IN S*

S c 24-291 Plat book

he fficial plat map shall be maintained as the fficial h use and building number plat f the city and the numbers therein designated are hereby appr ved and assigned as the numbers t be used and displayed n each and every h use and ther building situated n the respective tracts r l ts as indicated n the plats in such b k.

(C de 1976 § 6-105(1))

S c 24-292 Assignm nt of numb s

he z ning administrat r is hereby auth rized and directed t designate and assign building numbers t each and every h use and ther buildings c nstructed in the city in acc rdance ith the numbering plan used in such fficial plat b k such numbers t be appr priately entered n such plats and up n building permits issued.

(C de 1976 § 6-105(2))

S c 24-293 hang of numb s

Any ner f pr perty h c nsiders that the city has err ne usly designated a number f r his pr perty may petiti n the city manager t designate a different number and the city manager may in such case c nsider the petiti n and either sustain the acti n r designate a different number. On n tice t the ner r ccupant f any premises the city manager may change the number heret f re designated by the direct r f inspecti nal services r n such plat hich d es n t c nf rm t the plan f numbering appearing n the plat.

(C de 1976 § 6-105(3))

S cs 24-294--24-340 R s v d

ARTI L IX SNOW AN RUBBISH R MOVAL*

S c 24-341 finitions

he f ll ing rds terms and phrases hen used in this article shall have the meanings ascribed t them in this secti n except here the c ntext clearly indicates a different meaning:

Current service means ne r m re f the f ll ing activities by the city:

(1) em val f danger us sn ice r rubbish fr m public side alks and public rights-f- ay; and

---

* oss f nc (s)--Buildings and building regulati ns ch. 6.

Stat law f nc (s)--Auth rity t name and number streets M.S.A. § 412.221 subd. 18.

* oss f nc (s)--S lid aste management ch. 22.

(2) Repai o u sa e sidewal s.

(Code 1 76, § 6-1 0)

Cross reference(s)--De i itio s ge e all , § 1-2.

Sec. 24-342. Snow, ice and rubbish a public nuisance on sidewalks; removal by owner.

(a) ll s ow, ice a d ubbish bei g o a public sidewal o public ight-o -wa i such qua tities, o i such a ma e , as to e de the use o the sidewal b a pedest ia u sa e, is he eb decla ed a public uisa ce.

(b) The ow e o occupa t o a p ope t abutti g a public sidewal shall emove a d clea awa all s ow, ice a d ubbish om so much o the sidewal as is i o t o o abuts o the p ope t as ollows:

(1) S ow a d ice shall be emoved om all sidewal s i all busi ess a d i dust ial dist icts withi ou busi ess hou s a te the cessatio o a all o s ow, sleet o eezi g ai o b the begi i g o busi ess hou s o the ext busi ess da ollowi g such all, whicheve pe iod is sho te . S ow a d ice shall be emoved om all othe sidewal s o the same da o the cessatio o a all o s ow, sleet o eezi g ai whe at least six hou s o da light emai a te the cessatio , o othe wise b oo o the ollowi g da , whicheve pe iod is lo ge .

(2) Rubbish shall be emoved om all sidewal s withi 12 hou s a te its accumulatio the eo .

(Code 1 76, § 6-1 1)

Sec. 24-343. Sidewalk in disrepair a public nuisance; duty of owner.

(a) public sidewal i such a co ditio o dis epai as to e de its use b a pedest ia u sa e is he eb decla ed a public uisa ce.

(b) The ow e o occupa t o a p ope t withi the cit abutti g a public sidewal shall eep the sidewal i epai a d sa e o use b pedest ia s. Repai s shall be made i acco da ce with sta da d speci icatio s o ile with the cit .

(Code 1 76, § 6-1 2)

Sec. 24-344. Abatement notices.

(a) *S o , ice a d rubbish removal.* Whe a ow e o occupa t pe mits a uisa ce to exist i violatio o sectio 24-342, the cit ma se ve a otice o the ow e o the p ope t o de i g emoval, elimi atio o epai o the uisa ce withi o e da a te the se vice. The otice shall state that i the eve t o o complia ce, emoval o elimi atio ma be do e b the cit at the ow e 's expe se, a d, that i the expe ses a e ot paid p io to the ollowi g Septembe 1, the cha ge o the wo will be made a special assessme t agai st the p ope t . Whe o ow e o age t o the ow e ca be ou d, otice shall be se t b ce ti ied mail to the pe so who is listed o the eco ds o the cou t audito o cou t t easu e as the ow e . Se vice will be complete upo maili g.

(b) *Sid w l r p ir.* en n owne o occup nt pe mits nuis nce to exist in viol tion of section 24-343 t e city s ll se ve notice on t e owne of t e p ope ty o de ing emov l elimin tion o ep i of t e nuis nce wit in two d ys fte t e se vice of t e notice. T e notice s ll st te t t in t e event of noncompli nce emov l o elimin tion will be done by t e city t t e owne s expense nd t t if t e expenses e not p id p io to t e following Septembe 1 t e c ge fo t e wo k will be m de speci l ssessment g inst t e p ope ty. en no owne o gent of t e owne c n be found notice s ll be sent by ce tified m il to t e pe son w o is listed on t e eco ds of t e county udito o county t e su e s t e owne . Se vice will be completed upon m iling.

(Code 1976 § 6-155)

Cross reference(s)--Veget tion c . 34.

Sec. 24-345. Abatement by city.

f t e owne o occup nt f ils to comply wit t e notice wit in t e pe iod llowed fo compli nce fte se vice o if no owne occup nt o gent c n be found t e di ecto of public wo ks m y

(1) C use t e snow o ice o ubbis constituting t e nuis nce to be emoved; o

(2) n t e c se of public sidew lk w ic is uns fe nd in need of ep i s epo t t e f cts to t e city m n ge w o in tu n s ll epo t t em to t e city council. T e council t e eupon by esolution m y o de t e city m n ge to c use t e sidew lk to be ep i ed nd m de s fe fo pedest i ns by city c ews o by cont ct let in cco d nce wit l w.

Ab tement by t e city fte f ilu e of t e owne o occup nt to do so s ll not elieve suc owne o occup nt of viol tion of t is Code.

(Code 1976 § 6-156)

Cross reference(s)--Veget tion c . 34.

Sec. 24-34 . Personal liability.

T e owne of p ope ty fo w ic se vice unde section 24-345 s been p ovided by t e city s ll be pe son lly li ble fo t e cost of suc se vice. As soon s t e cu ent se vice s been completed nd its cost dete mined t e city m n ge s ll p ep e bill st ting t e mount due fo suc se vice nd st ting t t if t e bill is not p id p io to Septembe 1 t e s me will be m de speci l ssessment g inst t e p ope ty conce ned nd s ll m il t e bill nd notice to t e owne nd t e eupon t e mount s ll be immedi tely due nd p y ble to t e city.

(Code 1976 § 6-157)

Sec. 24-347. Assessment.

Afte Septembe 1 of e c ye t e cle k s ll list t e tot l unp id c ges fo e c type of se vice p ovided unde section 24-345 g inst e c sep te lot o t ct of l nd to w ic t ey e tt ibut ble unde t is ticle. T e council m y t en sp e d t e c ges g inst p ope ty benefited s speci l ssessment unde M.S.A. § 429.101 nd ot e pe tinent st tutes fo ce tific tion to t e county udito nd collection fo t e following ye long wit cu ent t xes.

(Code 1976 § 6-158)

CHAPTER 112: CABLE TELEVISION

Section

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112.12 Sale or transfer

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GENERAL PROVISIONS

§ 112.01 DEFINITIONS.

For the purpose of this chapter, the following definitions shall apply unless the context clearly indicates or requires a different meaning.

CITY. The city of St. Michael, Minnesota.

FCC. The Federal Communications Commission.

GRANTEE. The holder of a cable television franchise issued by the City of St. Michael.

GROSS BASIC SUBSCRIBER REVENUE. All income derived from the provision of basic cable services to any subscriber within the city limits.

MAY. Allows discretion.

SHALL. Always mandatory.

SUBSCRIBER. Any person who has a contract with the grantee for cable services.

(Ord. 51, passed 4-12-83)

FRANCHISES

§ 112.10 GRANTING OF FRANCHISE; EXCLUSIVITY.

The City Council may, upon majority vote, grant a franchise to any competent applicant. Any such franchise granted by the city shall be non-exclusive.

(Ord. 51, passed 4-12-83)

§ 112.11 TERM AND RENEWAL.

All franchises shall have an initial term of 15 years and any renewal shall be for a period of not more than five years. Renegotiation of any or all terms of the franchise may occur at such times as may be mutually agreed upon by the city and the grantee. Such renegotiation shall occur at least at the end of the initial franchise term, unless the city determines not to reissue the franchise to the grantee or desires to consider additional applicants for a franchise.

(Ord. 51, passed 4-12-83)

§ 112.12 SALE OR TRANSFER.

Sale or transfer of the franchise or sale or transfer of stock so as to create a new controlling interest shall be prohibited unless approved by the city, which approval shall not be unreasonably withheld.

(Ord. 51, passed 4-12-83)

§ 112.13 ACQUISITION OF SYSTEM BY CITY.

Upon expiration of the franchise term or termination of the franchise as provided in this chapter or upon receipt of an application from the grantee for approval of an assignment or transfer of the franchise, the city shall have the right to purchase the system of the grantee. In the event the city seeks to exercise its right to purchase, the purchase price shall be the price which any proposed assignee or transferee agreed to pay or the fair market value of the system as a going concern, whichever is less, payable on such terms as the grantee and city may agree. If the purchase price or the fair market value of the system cannot be agreed upon, the city and the grantee agree to submit the determination of the purchase price or fair market value to binding arbitration. The city and the grantee shall each choose one arbitrator, and the two arbitrators shall choose a third. If the choice of the third arbitrator cannot be agreed upon or a price determination is not made by arbitration, the purchase price or fair market value of the system shall be decided by the District Court of the State of Minnesota.

(Ord. 51, passed 4-12-83)

§ 112.14 EMINENT DOMAIN.

Nothing in this chapter shall be construed to preclude or limit the authority, if any, of the city to acquire any property of the grantee by eminent domain proceedings.

(Ord. 51, passed 4-12-83)

§ 112.15 COMPLIANCE WITH LAWS AND REGULATIONS.

The grantee shall conform to all federal laws and regulations regarding cable communications not later than one year after they become effective or sooner if so required by the applicable law or regulation and shall conform to all state laws, city codes, ordinances, and regulations with the exception of the rules of the Minnesota Cable Communications Board created by the provisions of M.S. § 238.04 as it may be amended from time to time, from which the city has exempted itself by prior actions.

(Ord. 51, passed 4-12-83)

§ 112.16 FEE.

To reimburse the city for its expense in administering the franchise, the grantee shall pay an annual fee to the city equal to 3% of the grantee's gross basic subscriber revenues and advertising revenues from the supplying of services to subscribers within the corporate limits of the city. The fee shall be calculated on a calendar year basis and shall be paid on or before March 1 following the year for which it is payable. The fee provided for in this section may be adjusted by the city from time to time, provided the schedule of maximum rates for basic cable service is adjusted to reflect the change.

(Ord. 51, passed 4-12-83)

§ 112.17 FINANCIAL REPORTS AND AUDITS.

The grantee shall file financial reports concerning the gross annual basic subscriber revenues realized by its operations within the authorized area annually with the city as soon as available after the close of its fiscal year. The financial reports shall include a balance sheet, a statement of operations, and any other information the city deems appropriate. The city may audit the grantee's accounting and financial records at any time upon reasonable notice.

(Ord. 51, passed 4-12-83)

§ 112.18 TERMINATION OF FRANCHISE.

(A) Subject to the procedural requirements set forth below, the city may terminate and cancel this franchise and all rights and privileges of the grantee hereunder in the event the grantee does any of the following:

(1) Substantially violates any provision of or defaults in the performance of any of its obligations under this franchise or any valid rule, order, or determination of the city;

(2) Attempts to evade any of the provisions of this franchise or practices any fraud or deceit upon the city;

(3) Files a petition or is adjudged bankrupt or insolvent under the Bankruptcy Act or any other insolvency or creditors' rights law, state or federal.

(B) The city shall provide the grantee a written notice of the cause for termination and its

intention to terminate the franchise. Such written notice shall allow the grantee a reasonable period of time, not less than 30 days after receipt of the notice by any corporate officer or resident manager of the grantee by certified mail or personal service, in which to eliminate or remedy the stated cause for termination. If the grantee begins and pursues with due diligence its efforts to eliminate or remedy the stated cause for termination but such cause cannot be eliminated or remedied within the period of time specified by the city, then such period of time shall be extended as necessary to enable the grantee to begin and complete its corrective action through the exercise of due diligence.

(C) If the grantee fails to eliminate or remedy the stated cause for termination within the reasonable time specified or extended and the city determines to proceed with its intention to terminate the franchise, the grantee shall be provided with an opportunity to be heard at a public hearing prior to the termination of the franchise.

(D) In the event the city determines to terminate the franchise it shall set forth its findings, conclusions, and determination to terminate the franchise in a written resolution.

(Ord. 51, passed 4-12-83)

§ 112.19 REVIEW AND RENEGOTIATION.

The field of cable communications is a relatively new and changing industry which will no doubt see many regulatory, technical, financial, and legal changes during the term of the franchise agreement. Therefore, in order to provide for a maximum degree of flexibility in this franchise, and to help achieve a continued advanced and modern system, the following renegotiation provision shall apply:

(A) The city may require, at its sole discretion, system performance evaluation sessions at any time during the term of this franchise or as required by federal law.

(B) All evaluation sessions shall be open to the public and notice of sessions shall be published in the same way as a legal notice. Grantee shall notify its subscribers of all evaluation sessions by announcement on at least two channels of the system between the hours of 7:00 p.m. and 9:00 p.m. for five consecutive days preceding each session.

(C) Topics to be discussed at any evaluation session may include rate structure, franchise fee, free or discounted services, application of new technologies, system performance, programming content, services, access, customer complaints, judicial and FCC rulings, and amendments to the franchise or any other relevant topic.

(D) The grantee shall fully cooperate with the city and shall provide without cost such information and documents as the city may request to reasonably perform the evaluation.

(E) (1) If the city determines that reasonable evidence exists of inadequate system performance, it may require grantee to perform tests directed toward diagnosis and remedy of such suspected inadequacies at the grantee's expense. Grantee shall fully cooperate with the city in performing such testing and shall compile the results and prepare a written report, if requested by the city, within 30 days after notice.

(2) The city may require that such tests be supervised by a consultant designated by the city at the grantee's expense. The consultant shall sign all records of special tests and shall forward to the city such records with a report interpreting the results of the tests and recommending actions to be taken. If the testing reveals the difficulties to be caused by factors which are beyond the grantee's

control, the cost of testing shall be borne by the city.

(Ord. 51, passed 4-12-83)

§ 112.20 SYSTEM MODIFICATION.

(A) As a result of a periodic review or evaluation session the city may request that the grantee modify the system or provide additional services. The grantee will comply with such requests by the city unless technology does not permit it or the grantee establishes to the satisfaction of the city that the cost would prohibit the implementation of the modification or additional services.

(B) The city may, at its own discretion, allow a special rate increase to be charged by the grantee in order to secure the additional services or modifications deemed inappropriate because of cost. The amount and effective date of the special rate increase shall be as mutually agreed upon by the city and the grantee.

(Ord. 51, passed 4-12-83)

CONSTRUCTION, OPERATION, AND MAINTENANCE

§ 112.30 AUTHORIZATION TO COMMENCE CONSTRUCTION.

The grantee shall obtain a permit from the proper municipal authority before commencing construction of the system, including the opening or disturbance of any street, sidewalk, driveway, or public place, and shall restore all property of the city and of the inhabitants thereof to its original condition after the installation of either aerial or underground cable or other construction work.

(Ord. 51, passed 4-12-83)

§ 112.31 INDEMNIFICATION.

(A) The grantee shall indemnify, hold harmless, and defend the city, its officers, and employees against and from any and all claims, lawsuits, proceedings, damages, costs, or liabilities arising out of the construction, operation, or maintenance of the cable system. The city and its officers and employees shall give the grantee prompt written notice of any claims filed against them in connection herewith.

(B) The grantee shall maintain in full force and effect during the term of this franchise a policy or policies of insurance with a financially responsible insurance company or companies, copies of which shall be filed with the city, providing comprehensive general liability coverage with the city, its officers, and employees named as additional insured. The policy or policies shall maintain at least the general liability limits being carried by the city, as these limits now exist or as they may hereafter be amended or modified, insuring both the city and the grantee with regard to all damages and penalties which they may be legally required to pay as a result of the exercise of the franchise and the construction, maintenance, or operation of the system.

(Ord. 51, passed 4-12-83)

§ 112.32 BOND.

Prior to commencement of construction, the grantee shall furnish a bond to the city equal to 125% of the construction costs; the bond shall be reduced to 25% of the construction costs after system turn-on, to remain in full force for the term of the franchise with acceptable surety conditioned upon the faithful performance by the grantee according to the terms of the franchise and upon the further condition that, in the event the grantee shall fail to comply with any law, ordinance, code provision, or regulation governing the franchise, there shall be recoverable jointly and severally from the grantee and surety of the bond any damages or loss suffered by the city, including the full amount of any compensation, indemnification, or cost of removal or abandonment of any property of the grantee plus a reasonable allowance for attorney fees and costs, up to the full amount of the bond, and further guaranteeing payment by the grantee of claims, liens, and taxes due to the city which arise by reason of the construction, operation, or maintenance of the system. The rights reserved by the city with respect to the bond are in addition to all other rights the city may have under the franchise or any other law. The city may, from year to year and at its sole discretion, reduce the amount of the performance bond.

(Ord. 51, passed 4-12-83; Am. Ord. 54, passed 9-13-83)

§ 112.33 RELOCATION OF EQUIPMENT.

Whenever the city deems it to be in the public interest to relocate or remove any of the grantee's cables, conduits, and/or other equipment located within the corporate limits of the city, the equipment shall forthwith be relocated at the grantee's own expense.

(Ord. 51, passed 4-12-83)

§ 112.34 LIABILITY FOR INJURY TO GRANTEE'S FACILITIES.

Nothing in the franchise shall relieve any person from liability arising out of the failure to exercise reasonable care to avoid injuring the grantee's facilities while performing any work connected with grading, regrading, or changing the line of any street or public place or with the construction or reconstruction of any sewer or water system.

(Ord. 51, passed 4-12-83)

§ 112.35 PROTECTION OF PUBLIC SAFETY AND COMMERCE.

The grantee shall keep and maintain all of its property so as not to unnecessarily interfere with the usual and customary trade, traffic, or travel upon the streets and public places of the franchise area or endanger the lives or property of any person.

(Ord. 51, passed 4-12-83)

§ 112.36 POLE USAGE.

The grantee shall use the existing poles, conduits, trenches, ducts, lines, and cables owned by

other holders of public licenses and franchises within the corporate limits of the city whenever possible for the installation of its cable. When installation of cable on poles is not possible, when both major utilities have installed underground cable, or when the city shall otherwise decide, the cable used by the grantee shall be installed underground at its expense.

(Ord. 51, passed 4-12-83)

§ 112.37 CONSTRUCTION SCHEDULE.

Within 90 days of the granting of the franchise, the grantee shall apply for all necessary permits, licenses, and authorizations required by law. Energized trunk cable shall be extended substantially throughout the authorized area within one year after their receipt and persons along the route of the energized cable shall have individual service connections as desired during the same period of time. The requirements of this provision may be waived by the city only upon occurrence of unforeseen events or acts of God.

(Ord. 51, passed 4-12-83)

§ 112.38 REMOVAL OF EQUIPMENT.

Upon expiration or other termination of the franchise, the grantee may remove, and upon demand of the city shall remove, its cable system from the streets and poles and restore same within one year after the date of expiration or termination. Upon the failure of the grantee to remove its system from the streets and poles after demand by the city, the city may remove the system and restore the streets and poles with its own employees and equipment or may contract for the removal of same and the grantee shall forthwith pay the city the cost and expense thereof.

(Ord. 51, passed 4-12-83)

RATES

§ 112.50 RATE SCHEDULE.

The grantee shall establish and adhere to the rate schedule proposed to and accepted by the city, which shall be included in the final franchise agreement signed by both the city and the grantee.

(Ord. 51, passed 4-12-83)

§ 112.51 RATE CHANGE PROCEDURE.

(A) The grantee may from time to time change its subscriber rates so as to ensure a fair and reasonable return on its investment as provided herein. A written application setting forth the proposed increase must be filed with the city at least 90 days prior to its proposed effective date.

(B) Such an application to the city for a rate increase shall be accompanied by such financial statements, pro forma projections showing the effect of the proposed increase, statements of fact,

and such other documents and exhibits as are necessary to substantiate the need for the rate increase requested. The city may require the grantee to provide any information it feels pertinent to its evaluation of the application.

(C) After affording reasonable notice, the city shall hold a public hearing providing an opportunity for all persons to be heard. If following said hearing the city denies the proposed rate increase, the pre-existing rate shall remain in effect. Should the city approve the rate increase or a reduced rate increase, the rate shall take effect from the first day of the month following the date of the city's determination. If, however, the city takes no action to approve, deny, or adjust the proposed rate increase within 90 days of the grantee's application for a rate increase, the proposed increase shall go into effect as if the city had issued its approval.

(D) The grantee may appeal a denial of all or a portion of any proposed rate increase to the District Court of the State of Minnesota, the procedure upon appeal being governed by the Minnesota Rules of Civil Procedure. A notice of appeal must be served upon the City Administrator within 30 days of the denial.

(E) In the event the District Court determines the city's action in denying the requested rate increase was arbitrary or not supported by the preponderance of the evidence, the District Court may return the matter to the City Council for reconsideration.

(F) In the event the Court upholds the city's rate determination, the grantee shall pay all of the city's expenses, including reasonable attorney fees, incurred in defending the appeal.

(Ord. 51, passed 4-12-83)

SERVICE

§ 112.60 SYSTEM DESIGN AND AUXILIARY SERVICES.

(A) The grantee shall maintain its cable system with a minimum of 300 MHz of band width available for immediate and future use, and the system shall have the technical capability for two-way return communications.

(B) The proposal submitted to the city to provide cable services by the grantee shall be incorporated into the franchise and made a part thereof. All aspects of the proposal pertaining to system design and services accepted and approved by the city shall be provided. The following additional services shall be provided:

(1) (a) To the extent of the system's available channel capacity, the grantee shall provide to each of its subscribers who receive all or any part of the total services offered, reception on at least one specially designated public access channel. The public access channel shall be available for use by the general public, local educational authorities, and the city on a first come, non-discriminatory basis. No charge shall be made for channel time or playback of prerecorded programming on the public access channel. Charges for production costs and any fees shall be consistent with the goal of providing the city, the public, and local educational authorities a low cost means of television access. Any fee to be charged shall be as set forth in the grantee's rate schedule as established in the franchise agreement.

(b) Whenever the specially designated access channel is in use 80% of the weekdays or 80% of the time during any three-hour period for six weeks running, the grantee shall provide an

additional channel designated for access use. The grantee shall have six months to provide the additional channel provided the new channel or channels shall not require the grantee to change converters.

(2) The grantee shall make readily available for public use at least the minimum equipment necessary for the production and playback of programming and the playback of prerecorded programming for the specially designated access channel. The equipment provided by the grantee shall also make it possible to record programs at remote locations.

(3) The grantee shall provide an emergency access audio override system for the use of the city, civil defense authorities, and local educational authorities. In the case of any declared emergency or disaster the grantee shall make its facilities available to the city for reasonable emergency use.

(4) The grantee shall provide a return line for the access channel from an accessible point within the franchise area, preferably the high school, City Hall, or both.

(Ord. 51, passed 4-12-83)

§ 112.61 TECHNICAL STANDARDS.

(A) The rules of the FCC relating to cable communications contained in Subpart K of Part 76 of the FCC's rules and regulations (47 CFR Part 76, Subpart K), are hereby incorporated into this franchise by reference. The results of any tests required by the FCC shall be filed with the city within ten days of the completion of such tests.

(B) The system shall deliver to the subscriber a signal that is capable of producing a black and white or color picture without visual material degradation in quality within the limitations imposed by the technical state of the art.

(C) The system shall transmit or distribute signals without causing objectionable cross-modulation in the cable or interfering with other electrical or electronic networks or with the reception of other television or radio receivers in the area not connected to the cable system.

(Ord. 51, passed 4-12-83)

§ 112.62 SUBSCRIBER PRIVACY.

No signals of a cable channel may be transmitted from a subscriber terminal for purposes of monitoring individual viewing patterns or practices without the express written permission of the subscriber. The request for such permission shall be contained in a separate document with a prominent statement that the subscriber is authorizing the permission with full knowledge of its provisions. The authorization may be revokable at any time by the subscriber without penalty and no penalty shall be invoked for a subscriber's failure to approve or renew such authorization.

(Ord. 51, passed 4-12-83)

§ 112.63 SERVICE RULES.

The grantee shall have the right to prescribe reasonable service rules for the conduct of its

business and its customer relations not inconsistent with the provisions of this chapter. A copy of such rules and all additions, deletions, and amendments thereto shall be kept on file with the city throughout the life of the franchise.

(Ord. 51, passed 4-12-83)

§ 112.64 SERVICE POLICIES.

(A) The grantee shall extend cable service to any isolated residence at the standard installation rate if: the service connection to the isolated residence would require no more than a 200 foot drop line from an existing cable; and the resident requests the service extension.

(B) Any isolated residence requiring more than a 200 foot drop line from an existing cable shall be charged a premium installation rate. The premium installation rate shall be the standard installation rate plus the actual cost to the grantee for the distance in excess of 200 feet.

(C) The grantee shall extend cable service to any new development or group of residences at the standard rate if the development or group of residences to be served has a density of at least 30 homes per cable mile and at least 50 of the residences to be served have requested service. Any development or group of residences not meeting the above requirements may be served at the grantee's discretion upon such contractual terms as the grantee and developers or landowners may agree.

(Ord. 51, passed 4-12-83)

§ 112.65 REPAIRS AND COMPLAINTS.

(A) (1) The grantee shall provide a toll-free telephone number for subscriber complaints and shall maintain a repair service capable of responding to subscriber complaints or requests for service within 24 hours after receipt of the complaint or request for service.

(2) All complaints by the city, subscribers, or other citizens regarding the quality of service, equipment malfunction, billing disputes, and any other matters relative to the cable system shall be investigated by the grantee within 24 hours. The grantee shall rectify the cause of the complaint if reasonably possible. If a subscriber or citizen complaint is not resolved within ten working days the complainant may then file the complaint with the city. After consideration of the complaint and a finding that the grantee is at fault, the city may enact the provisions for termination of the franchise.

(B) Whenever it is necessary to shut off or interrupt services for the purpose of making repairs, adjustments, or installations, the grantee shall do so during periods of minimum use by subscribers. Unless such interruption is unforeseen, the grantee shall give reasonable notice thereof to the subscribers affected.

(Ord. 51, passed 4-12-83)

§ 112.98 VIOLATIONS.

(A) No person shall construct, operate, or maintain a cable communications system under, over, along, or across any street in the city for profit unless a franchise for such system and use of the

streets has first been obtained and is in full force and effect.

(B) It is unlawful for any person to intentionally deprive the grantee of a lawful charge for cable television service by making, using, or attempting to make or use an unauthorized connection to the cable system whether physical, electrical, acoustical, inductive or any other type of connection, or attaching any unauthorized device to any cable, wire, microwave, or other component of a franchised cable communications system.

(C) It is unlawful for any person to intentionally tamper with, remove, or injure any cable, wire, or other component of a franchised cable system or to intentionally and without claim of right interrupt a service of said system.

(Ord. 51, passed 4-12-83) Penalty, see § 112.99

§ 112.99 PENALTY.

Violation of any provision of § 112.98 is punishable as a misdemeanor and as provided in § 10.99.

(Ord. 51, passed 4-12-83)

ORDINANCE NO. 1102

CITY OF ST. MICHAEL
COUNTY OF WRIGHT
STATE OF MINNESOTA

AN ORDINANCE AMENDING ORDINANCE NUMBER 0314 AND ORDINANCE NUMBER 0315 TO INCREASE THE RESIDENTIAL ELECTRIC FRANCHISE FEE

The City Council of St. Michael Ordains:

SECTION 1. Section 9.1 of Ordinance No. 0314 is hereby amended to read in its entirety as follows:

*9.1 **Fee Schedule**. During the term of the franchise hereby granted, and in lieu of any permit or other fees being imposed on Company, the City may impose on Company a franchise fee by collecting the amounts indicated in a Fee Schedule set forth in a separate ordinance from each customer in the designated Company Customer Class. The parties have agreed that the franchise fee collected by the Company and paid to the City in accordance with this Section 9.1 shall not to exceed the following amounts.*

Class	*Fee Per Month*
Residential	*$ **3.50***
Sm C & I – Non-Dem	*$ 2.50*
Sm C & I – Demand	*$ 2.50*
Large C & I	*$ 10.00*
Public Street Ltg	*$ 10.00*
Muni Pumping –N/D	*$ 2.50*
MuniPumping – Dem	*$ 10.00*

SECTION 2. Exhibit A of Ordinance No. 0315 is hereby amended to read in its entirety as follows:

EXHIBIT A

XCEL ENERGY ELECTRIC FRANCHISE

FEE SCHEDULE

Class	***Fee Per Premise***
Residential	*$ **3.50** per month*
Sm C & I – Non-Dem	*$ 2.50 per month*
Sm C & I – Demand	*$ 2.50 per month*
Large C & I	*$ 10.00 per month*
Public Street Ltg	*$ 10.00 per month*
Muni Pumping –N/D	*$ 2.50 per month*
MuniPumping – Dem	*$ 10.00 per month*

Franchise fees are to be collected by the Utility in the amounts set forth in the above schedule, and submitted to the City on a quarterly basis.

SECTION 3. This Ordinance shall take effect upon its passage and publication according to law.

Passed by the City Council of the City of St. Michael this 22nd day of February 2011.

_____
Jerry Zachman, Mayor

ATTEST:

_____
Diana Berning, City Clerk

ORDINANCE NO. 1103

CITY OF ST. MICHAEL
COUNTY OF WRIGHT
STATE OF MINNESOTA

AN ORDINANCE IMPLEMENTING AN ELECTRIC FRANCHISE FEE ON WRIGHT-HENNEPIN COOPERATIVE ELECTRIC ASSOCIATION, ITS SUCCESSORS AND ASSIGNS FOR PROVIDING ELECTRIC SERVICE WITHIN THE CITY OF ST. MICHAEL

THE CITY COUNCIL OF THE CITY OF ST. MICHAEL ORDAINS:

SECTION 1. The City of St. Michael City Code is hereby amended to include reference to the following Special Ordinance.

Subdivision 1. Purpose. The St. Michael City Council has determined that it is in the best interest of the City to impose a franchise fee on Wright-Hennepin Cooperative Electric Association ("Company") in accordance with Section 9 of the Electric Franchise Agreement between the Company and the City of St. Michael, the terms of which are hereby incorporated by reference as though set forth at length herein. The City shall use the franchise fee collected for no purpose other than betterment of the Electric Facilities, including such things as placing the Electric Facilities underground or installing decorative lighting above ground, to reimburse the city for permit fees excused by the provisions of Section 9.1 of the franchise, or to pay charges to the Company for the operations and maintenance of the streetlight system, signal system, and siren system installed in the Company's service territory in the City.

(a) Pursuant to City Ordinance No. 1009, a Franchise Agreement between the City and the Company, the City has the right to impose a franchise fee on the Company in the amount and fee design as set forth in the fee schedule attached as Exhibit A.

Subd. 2. Franchise Fee. A franchise fee is hereby imposed on the Company under its Electric Franchise in accordance with the schedule attached hereto and made a part of this ordinance, commencing with the Company's May 2011 billing month.

This fee is an account based fee and not a meter-based fee. In the event that an entity covered by this ordinance has more than one meter at a single premise, but only one account, only one fee shall be assessed to that account. If a premise has two or more meters being billed at different rates, the Company may have an account for each rate classification, which will result in more than one franchise fee assessment for electric service to that premise. In the event any entities covered by this ordinance have more than one premise, each premise (address) shall be subject to the appropriate fee. In the event a question arises as to the proper fee amount for any premise, the Company's manner of billing for energy used at that premise before this ordinance was adopted will control.

Subd. 3. Payment. The said franchise fee shall be payable to the City in accordance with the terms set forth in Section 9.4 of the Franchise Agreement.

Subd. 4. **Surcharge**. The City recognizes that the Minnesota Public Utilities Commission allows the utility company to add a surcharge to customer rates to reimburse such utility company for the cost of the fee and that the Company will surcharge its customers in the City the amount of the fee.

Subd. 5. **Record Support for Payment**. The Company shall make each payment when due and, if requested by the City, shall provide at the time of each payment a statement summarizing how the franchise fee payment was determined, including information showing any adjustments to the total surcharge billed in the period for which the payment is being made to account for any uncollectibles, refunds or error corrections. The City will account to the Company for its use of the franchise fee payments as required by Section 9 of the Franchise Agreement.

Subd. 6. **Enforcement**. Any dispute, including enforcement of a default regarding this ordinance will be resolved in accordance with Section 2.5 the Franchise Agreement.

Subd. 7. **Effective Date of Franchise Fee**. Notwithstanding the effective date of this ordinance and notwithstanding any contrary provisions in the Franchise Agreement, the effective date of the franchise fee collected under Subdivision 2 of this ordinance is the later of ten (10) days after the publication or after the sending of written notice enclosing a copy of this adopted ordinance upon the Company by certified mail. It has been agreed to in advance by the Company's representatives that the Company will abide by the provisions of this Subdivision 7, provided fee collection will not commence before the later of the Company billing month set forth in subdivision 2 or the first billing month commencing 20 days after the foregoing effective date of the franchise fee.

SECTION 2. This ordinance shall take effect as provided herein and upon its passage and publication according to law.

Passed by the City Council of the City of St. Michael this 22nd day of February 2011.

City of St. Michael, Minnesota

By: _____
Jerry Zachman, Mayor

ATTEST:

_____
Diana Berning, City Clerk

EXHIBIT A
WRIGHT-HENNEPIN COOPERATIVE ELECTRIC ASSOCIATION

FEE SCHEDULE

Class	**Fee Per Premise**
Residential	$ 3.50 per month
Sm C & I – Non-Dem	$ 2.50 per month
Sm C & I – Demand	$ 2.50 per month
Large C & I	$ 10.00 per month
Public Street Ltg	$ 10.00 per month
Muni Pumping –N/D	$ 2.50 per month
MuniPumping – Dem	$ 10.00 per month

Franchise fees are to be collected by the Utility in the amounts set forth in the above schedule, and submitted to the City on a quarterly basis.

Wright County

Right-of-Way Ordinance for the Management of the Public Right-of-Way Under the County's Jurisdiction

Ordinance No. 06-01

Effective 4-05-06

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WRIGHT COUNTY RIGHT-OF-WAY ORDINANCE
FOR THE MANAGEMENT OF THE PUBLIC RIGHT-OF-WAY
UNDER THE COUNTY'S JURISDICTION

An ordinance to administer and regulate the public right-of-way in the public interest, and to provide for the issuance and regulation of Right-of-Way permits, pursuant to the powers granted under Minnesota Statutes 162.02, 163.02, 222.37, and 237.16 through 237.163, and Minnesota Rules Chapter 7819.

Chapter 1
Right-of-way Management

Sec. 1.01. Findings, Purpose, and Intent.

To provide for health, safety and welfare of its citizens, and to ensure the integrity of its roads and streets and the appropriate use of the rights of way, the County strives to keep its right-of-way in a state of good repair and free from unnecessary encumbrances.

Accordingly, the County hereby enacts this new ordinance relating to right-of-way permits and administration. This ordinance imposes regulation on the placement and maintenance of facilities and equipment currently within its right-of-way or to be placed therein at some future time. It is intended to complement the regulatory roles of state and federal agencies. Under this ordinance, persons excavating and obstructing the right-of-way will bear financial responsibility for their work. Finally, this ordinance provides for recovery of out-of-pocket and projected costs from persons using the public right-of-way.

Regulation of driveways and accesses to County roads is pursuant to the Wright County Highway Department Access Policy, and is not dealt with in this Ordinance.

This ordinance shall be interpreted consistently with 1997 Session Laws, Chapter 123, substantially codified in Minnesota Statutes Sections 237.16, 237.162, 237.163, 237.79, 237.81, and 238.086 (the "Act") and the other laws governing applicable rights of the County and users of the right-of-way. This ordinance shall also be interpreted consistently with Minnesota Rules 7819.0050 – 7819.9950 where possible. To the extent any provision of this ordinance cannot be interpreted consistently with the Minnesota Rules, that interpretation most consistent with the Act and other applicable statutory and case law is intended. This ordinance shall not be interpreted to limit the regulatory and police powers of the County to adopt and enforce general ordinances necessary to protect the health, safety, and welfare of the public.

Sec. 1.02. Election to Manage the Public Right-of-way

Pursuant to the authority granted to the County under state and federal statutory, administrative and common law, the County hereby elects pursuant Minn. Stat. 237.163 subd.2 (b), to manage right-of-way under its jurisdiction.

"Manage the Right-of-way," means the authority of the County to do any or all of the following:

1. Require registration
2. Require construction performance bonds and insurance coverage
3. Establish installation and construction standards;
4. Establish and define location and relocation requirements for equipment and facilities;
5. Establish coordination and timing requirements;
6. Require right-of-way users to submit henceforth required by the County project data reasonably necessary to allow the County to develop a right-of-way mapping system including GIS system information
7. Require right-of-way users to submit, upon request of the County, existing data On the location of user's facilities occupying the public right-of-way within the County. The data may be submitted in the form maintained by the user in a reasonable time after receipt of the request based on the amount of data requested;
8. Establish right-of-way permitting requirements for excavation and obstruction;
9. Establish removal requirements for abandoned equipment or facilities, if required in conjunction with other right-of-way repair, excavation or construction; and

10. Impose reasonable penalties for unreasonable delays in construction.

Sec. 1.03. Definitions.

The following definitions apply in this ordinance. References hereafter to "sections" are unless otherwise specified references to sections in this ordinance. Defined terms remain defined terms whether or not capitalized.

"Abandoned Facility" means a facility no longer in service or physically disconnected from a portion of the operating facility, or from any other facility, that is in use or still carries service. A facility is not abandoned unless declared so by the right-of-way user.

"Applicant" means any Person requesting permission to install any utility or to excavate or obstruct a right-of-way.

"Commission" means the Minnesota Public Utilities Commission.

"Congested Right-of-way" means a crowded condition in the subsurface of the public right-of-way that occurs when the maximum lateral spacing between existing underground facilities does not allow for construction of new underground facilities without using hand digging to expose the existing lateral facilities in conformance with Minnesota Statutes, section 216D.04, subdivision 3, over a continuous length in excess of 500 feet.

"Construction Performance Bond" means any of the following forms of security provided at permittee's option:

A. Individual project bond;
B. Cash deposit;
C. Security of a form listed or approved under Minn. Stat. Sec 15.73,sub3;
D. Letter of Credit, in form acceptable to the County;
E. Self-insurance in form acceptable to the County;
F. Blanket bond for projects within the county or construction bond for a specified time and in a form acceptable to the County.

"County" means the County of Wright, Minnesota. For purposes of section 1.28 Indemnification and Liability, County means its elected and appointed officials, officers, employees and agents.

"Degradation" means a decrease in the useful life of the right-of-way caused by excavation in or disturbance of the right-of-way, resulting in the need to reconstruct such right-of-way earlier than would be required if the excavation did not occur.

"Degradation Cost" subject to Minnesota Rules 7819.1100 means the cost to achieve a level of restoration as determined by the County at the time the permit is issued, not to exceed the maximum restoration shown in plates 1 to 13, set forth in Minnesota Rules parts 7819.9900 to 7819.9950, and included in the appendix to this Ordinance.

"Degradation Fee" means the estimated fee established at the time of permitting by the County to recover costs associated with the decrease in the useful life of the right-of-way caused by the excavation, and which equals the Degradation Costs.

"Delay Penalty" is the penalty imposed as a result of unreasonable delays in right-of-way excavation, obstruction, patching, or restoration as established by permit.

"Department" means the Wright County Highway Department.

"Department Inspector" means any person authorized by the County Engineer to carry out inspections related to the provisions of this Chapter.

"Director" means the County Engineer, or her or his designee.

"Emergency" means a condition that (1) poses danger to life or health, or of a significant loss of property; or (2) requires immediate repair or replacement of facilities in order to restore service to a customer.

"Equipment" means any tangible asset used to install, repair, or maintain facilities in any right-of-way.

"Excavate" means to dig into or in any way remove or physically disturb or penetrate any part of a public right-of-way.

"Facility or Facilities" means any tangible asset in the right-of-way required to provide utility service.

"Five-year project plan" shows projects adopted by the County for construction within the next five years.

"High Density Corridor" means a designated portion of the public right-of-way within which telecommunications right-of-way users having multiple and competing facilities may be required to build and install facilities in a common conduit system or other common structure.

"Hole" means an excavation in the Right-of-Way.

"Joint Installation" means two or more registrants that install facilities in the same trench, conduit, etc. or on the same obstruction in the right-of-way at the same time and same place.

"Local Representative" means a local person or persons, or designee of such person or persons, authorized by a registrant to accept legal notice or service and to accept communications and to make decisions for that registrant regarding all matters within the scope of this ordinance.

"Management Costs" means the actual costs the County incurs in managing its public rights of way, including such costs, if incurred, as those associated with registering applicants; issuing, processing, and verifying right-of-way permit applications; inspecting job sites and restoration projects; maintaining, supporting, protecting, or moving user equipment and facilities during public right-of-way work; determining the adequacy of right-of-way restoration; restoring work inadequately performed after providing notice and the opportunity to correct the work; and revoking right-of-way permits. Management costs do not include payment by a telecommunications right-of-way user for the use of the right-of-way, the fees and cost of litigation relating to the interpretation of Minnesota Session Laws 1997, Chapter 123; Minnesota Statutes Sections 237.162 or 237.163 or any ordinance enacted under those sections, or the County fees and costs related to appeals taken pursuant to Section 130 of this ordinance.

"Obstruct" means to place any tangible object in a public right-of-way so as to hinder free and open passage over that or any part of the right-of-way.

"Patch or Patching" means a method of pavement replacement that is temporary in nature. A patch consists of (1) the compaction of the subbase and aggregate base, and (2) the replacement, in kind, of the existing pavement for a minimum of two feet beyond the edges of the excavation in all directions. A patch is considered full restoration only when the pavement is included in a project programmed by the County, or as approved by the Director.

"Pavement" means any type of improved surface that is within the public right-of-way and that is paved or otherwise constructed with bituminous, concrete, aggregate, or gravel.

"Permit" has the meaning given "right-of-way permit" in Minnesota Statutes, section 237.162.

"Permittee" means any person to whom a permit to install a utility or to excavate or obstruct a right-of-way has been granted by the County under this ordinance.

"Person" means an individual or entity subject to the laws and rules of this state, however organized, whether public or private, whether domestic or foreign, whether for profit or nonprofit, and whether natural, corporate, or political.

"Potholing" means a term used for the method of exposing an existing underground facility, by the means of hand digging, for the purpose of determining the facilities exact location.

"Probation" means the status of a person that has not complied with the conditions of this ordinance.

"Probationary Period" means one year from the date that a person has been notified in writing that they have been put on probation.

"Public Right-of-Way" means the area on, below, or above a public roadway, highway, street, cartway, bicycle lane and public sidewalk in which the County has an interest, including other dedicated rights of way for travel purposes and utility easements of the County. A public right-of-way does not include the airwaves above a right-of-way with regard to cellular or other nonwire telecommunications or broadcast service. The lands described by an easement, deed, dedication, title, law or occupation of a road, highway, street, cartway, bicycle lane, or sidewalk are included as right-of-way.

"Registrant" means any person who (1) has or seeks to have its equipment or facilities located in any right-of-way, or (2) in any way occupies or uses, or seeks to occupy or use, the right-of-way or place its facilities or equipment in the right-of-way.

"Restoration Cost" means the amount of money paid to the County by a permittee to achieve the level of restoration according to plates 1 to 13 of the Minnesota Public Utilities Commission rules.

"Restore or Restoration" means the process by which an excavated public right-of-way and surrounding area including pavement foundation is returned to the same condition (and life expectancy) that existed before excavation.

"Right-of-Way Permit" means a permit issued for installation of utilities, excavation, or obstruction of the right-of-way as required by this ordinance.

"Right-of-Way User" means (1) a telecommunications right-of-way user as defined by Minnesota Statutes, section 237.162, Subd. 4; or (2) a person owning or controlling a

facility in the right-of-way that is used or intended to be used for providing utility service, and who has a right under law, franchise, or ordinance to use the public right-of-way; or (3) hazardous liquid or natural gas pipeline facilities.

"Rural Roadway" means any roadway not meeting the definition of an urban section.

"Service" or "Utility Service " includes (1) those services provided by a public utility as defined in Minn. Stat. 216B.02, subds. 4 and 6; (2) services of a telecommunications right-of-way user, including transporting of voice or data information; (3) services of a cable communications system as defined in Minn. Stat. Chapter. 238; (4) natural gas or electric energy or telecommunications services provided by the city; (5) services provided by a cooperative electric association organized under Minn. Stat., Chapter 308A; and (6) water, sewer, steam, cooling or heating services.

"Supplementary Application" means an application made to excavate or obstruct more of the right-of-way than allowed in, or to extend, a permit that had already been issued.

"Telecommunication Rights-of-Way User" means a person owning or controlling a facility in the right-of-way, or seeking to own or control a facility in the right-of-way, that is used or is intended to be used for transporting telecommunication or other voice or data information. For purposes of this ordinance, a cable communication system defined and regulated under Minn. Stat. Chap. 238, and telecommunication activities related to providing natural gas or electric energy services whether provided by a public utility as defined in Minn. Stat. Sec.216B.02, a municipality, a municipal gas or power agency organized under Minn. Stat. Chaps. 453 and 453A, or a cooperative electric association organized under Minn. Stat. Chap. 308A, are not telecommunications right-of-way users.

"Temporary Surface" means the compaction of subbase and aggregate base and replacement, in kind, of existing pavement only to the edges of the excavation. It is temporary in nature except when the replacement is of pavement included in the county's two-year project plan, in which case it is considered full restoration.

"Trench" means an excavation in the Right-of-Way.

"Unusable or Unused Equipment and Facilities" means equipment and facilities in the right-of-way which have remained unused for one year or for facilities that are not registered or located by Gopher One Call; or for which the registrant is unable to provide proof that it has either a plan to begin using it within the next twelve (12) months or a potential purchaser or user of the equipment or facilities.

"Urban Section" means any roadway that has curbing.

Sec. 1.04. Administration.

The Director is the principal County official responsible for the administration of the rights of way, right-of-way permits, and the ordinances related thereto. The Director may delegate any or all of the duties hereunder.

Sec. 1.05. Utility Coordination Committee

The County may create an advisory utility coordination committee. Participation on the committee is voluntary. It will be composed of any registrants that wish to assist the County in obtaining information and by making recommendations regarding use of the right-of-way, and to improve the process of performing construction work therein. The Director may determine the size of such committee and shall appoint members from a list of registrants that have expressed a desire to assist the County.

The County Board shall make any appointments to such a committee by resolution.

Sec. 1.06. Registration and Right-of-Way Occupancy.

Subd. 1. Registration. Each person who occupies, uses, or seeks to occupy or use, the right-of-way or place any equipment or facilities in the right-of-way, including persons with installation and maintenance responsibilities by lease, sublease or assignment, must register with the County. Registration will consist of agreeing to abide by this ordinance, providing application information and paying a registration fee. Registration fees shall be set by resolution of the County Board and may be amended by the Board at a public meeting.

Subd. 2. Registration Prior to Work. No person may construct, install, repair, remove, relocate, or perform any other work on, or use any facilities or any part thereof in any right-of-way without first being registered with the County.

Subd. 3. Exceptions. Nothing herein shall be construed to repeal or amend the rights of persons to plant or maintain boulevard plantings or gardens in the area of the right-of-way between their property and the street curb, in an urban section of roadway. Persons planting or maintaining boulevard plantings or gardens shall not be deemed to use or occupy the right-of-way, and shall not be required to obtain any permits or satisfy any other requirements for planting or maintaining such boulevard plantings or gardens under this ordinance. However, plantings must not violate applicable clear zone requirements nor obstruct visibility on the roadway, and the County may remove such plantings, if necessary for maintenance, safety, or construction purposes, with no compensation due the property owner. No plantings of any kind shall be allowed in the right-of-way on rural roadways.

Private underground sprinkler and irrigation systems shall be allowed in the right-of-way by permit only, however owner and installers shall be exempt from registration. No compensation shall be made to owner if any sprinkler or irrigation system is required to be removed or if it is damaged by any County or municipal activity or by any permitted right-of-way activity.

Persons installing turn and or bypass lanes shall be exempt from registration, however, an access permit is required.

Resident owned sewer and water service lines to a city main and resident owned drain tile lines shall not be required to register, unless requested by the County, but shall be required to obtain permits for excavation and obstruction.

Nothing herein relieves a person from complying with the provisions of the Minn. Stat. Chap. 216D, the "Gopher State One Call" Law.

Sec. 1.07. Registration Information.

Subd. 1. Information Required. The information provided to the Director at the time of registration shall include, and be on the form provided by the County, but not be limited to:

(A) Each registrant's name, Gopher One-Call registration certificate number, address and e-mail address if applicable, and telephone and facsimile numbers.

(B) The name, address and e-mail address, if applicable, and telephone and facsimile numbers of a local representative. The local representative or designee shall be available at all times. Current information regarding how to contact the local representative in an emergency shall be provided at the time of registration.

(C) A certificate of insurance or self-insurance:

(1) Verifying that an insurance policy has been issued to the registrant by an insurance company licensed to do business in the State of Minnesota, or a form of self insurance acceptable to the Director;

(2) Verifying that the registrant is insured against claims for personal injury, including death, as well as claims for property damage arising out of the (i) use and occupancy of the right-of-way by the registrant, its officers, agents, employees and permittees, and
(ii) placement and use of facilities in the right-of-way by the registrant, its officers, agents, employees and permittees, including, but not limited to, protection against liability arising from completed operations, damage of underground facilities and collapse of property;

(3) Naming the County as an additional insured as to whom the coverage required herein are in force and applicable and for whom defense will be provided as to all such coverage;

(4) Requiring that the Director be notified thirty (30) days in advance of cancellation of the policy or material modification of a coverage term;

(5) Indicating comprehensive liability coverage, automobile liability coverage, workers compensation and umbrella coverage established by the Director in amounts sufficient to protect the County and the public and to carry out the purposes and policies of this chapter.

(D) The County may require a copy of the actual insurance policies.

(E) If the person is a corporation, a copy of the certificate required to be filed under Minn. Stat. 300.06 as recorded and certified to by the Secretary of State.

(F) A copy of the person's order granting a certificate of authority from the Minnesota Public Utilities Commission or other applicable state or federal agency, where the person is lawfully required to have such certificate from said Commission or other state or federal agency.

Subd. 2. Notice of Changes. The registrant shall keep all of the information listed above current at all times by providing to the Director information as to changes within fifteen (15) days following the date on which the registrant has knowledge of any change.

Sec. 1.08. Reporting Obligations.

Subd. 1. Operations. Each registrant that provides utility service shall, at the time of registration and by December 31 of each year, file a construction and major maintenance plan for underground facilities with the Director. Such plan shall be submitted using a format designated by the Director and shall contain the information determined by the Director to be necessary to facilitate the coordination and reduction in the frequency of excavations and obstructions of rights of way. The County shall maintain in the file a copy of the County's construction plan for construction projects. The utility facility plans shall be kept up-to-date by the registrant. The plans shall be on file and available for public inspection.

The plan shall include, but not be limited to, the following information:

(A) The locations and the estimated beginning and ending dates of all projects to be

commenced during the next calendar year (in this section, a "Next-Year Project");

(B) How the registrant will accommodate the County plan;

(C) To the extent known, the tentative locations and estimated beginning and ending dates for all projects contemplated for the five years following the next calendar year (in this section, a "Five-Year Project").

It is the registrant's responsibility to keep informed on available plans.

The term "project" in this section shall include both Next-Year Projects and Five-year Projects but does not include individual service line hookups and minor maintenance unless they are part of an area wide program.

Subd. 2. Additional Next-year Projects. Notwithstanding the foregoing, the Director will not deny an application for a right-of-way permit for failure to include a project in a plan submitted to the County if the registrant has used commercially reasonable efforts to anticipate and plan for the project.

Sec. 1.09. Permit Requirement.

Subd. 1. Permit Required. Except as otherwise provided in this Code, no person may obstruct, or excavate any right-of-way without first registering and having obtained the appropriate right-of-way permit from the County to do so.

Subd. 2. Permit Extensions. No person may excavate or obstruct the right-of-way beyond the date or dates specified in the permit unless such person (i) makes a supplementary application for another right-of-way permit before the expiration of the initial permit, and (ii) a new permit or permit extension is granted.

Subd. 3. Delay Penalty. In accordance with Minnesota Rule 7819.1000 subd. 3 notwithstanding subd. 2 of this Section, the County shall establish and impose a delay penalty for unreasonable delays in right-of-way excavation, obstruction, patching, or restoration. The delay penalty shall be established from time to time by County Board resolution. The County may also require that the permittee reimburse the County for any damages or additional costs charged by the County's construction contractor as a result of the delay.

Subd. 4. Permit Display. Permits issued under this Chapter shall be conspicuously displayed or otherwise available at all times at the indicated work site and shall be available for inspection by the County.

Sec. 1.10. Permit Applications.

Application for a permit is made to the Director. Right-of-Way Permit applications shall contain, and will be considered complete only upon compliance with the requirements of, the following provisions:

(A) Registration with the County pursuant to this ordinance;

(B) Submission of a completed permit application on the form provided by the County, including all required attachments, and scaled drawings showing the location and area of the proposed project and the location of all known existing and proposed facilities.

(C) Payment of money due the County for:

(1) permit fees, estimated restoration costs and other management costs;

(2) prior obstructions or excavations;

(3) any undisputed loss, damage, or expense suffered by the County because of applicant's prior excavations or obstructions of the right of way or any emergency actions taken by the County;

(4) franchise fees or other charges, if applicable.

(D) Payment of disputed amounts due the County by posting security or depositing in an escrow account an amount equal to at least 110% of the amount owing.

(E) Posting an additional or larger construction performance bond for additional facilities when applicant requests an excavation or obstruction permit to install additional facilities and the County deems the existing construction performance bond inadequate under applicable standards.

Sec. 1.11. Issuance of Permit; Conditions.

Subd. 1. Permit Issuance. If the applicant has satisfied the requirements of this ordinance, the County shall issue a permit.

Subd. 2. Conditions. The Director may impose reasonable conditions upon the issuance of the permit and the performance of the applicant thereunder to protect the health, safety and welfare or, when necessary, to protect the right-of-way and its current and future use.

Subd.3. Installation Requirements. Basic installation requirements shall include, but not be limited to, those installation requirements found in the Wright County Highway Utility Installation Policy, the terms of which are incorporated into this Ordinance by reference.

Sec. 1.12. Permit Fees.

Subd. 1. Right-of-Way Permit Fee. The county shall establish a right-of-way permit fee schedule specifying fees that are adequate to recover the following associated costs that include but are not limited. Permit fees shall be established by resolution of the County Board and may be amended at any public meeting.

(A) County Management Costs;

(B) Degradation Costs, if applicable;

(C) Mapping Costs;

(D) Obstruction Costs.

Subd. 2. Payment of Permit Fees. No right-of-way permit shall be issued without payment of any and all applicable permit fees unless the County allows applicants to pay such fees within thirty (30) days of billing**.**

Subd. 3. Non-refundable. Permit fees that were paid for a permit that the Director has revoked for a breach as stated in Section 1.22 are not refundable. Permit fees paid for work that is subsequently cancelled are not refundable.

Subd. 4. Application to Franchises. Unless otherwise agreed to in a franchise, management

costs may be charged separately from and in addition to the franchise fees imposed on a right-of-way user in the franchise.

Sec. 1.13. Right-of-Way Patching and Restoration.

Subd. 1. Timing. The work to be done under the excavation permit, and the patching and restoration of the right-of-way as required herein, must be completed within the dates specified in the permit, increased by as many days as work could not be done because of extraordinary circumstances beyond the control of the permittee or when work was prohibited as unseasonable or unreasonable under Section 1.15.

Subd. 2. **Temporary Surfacing,** ***Patch and Restoration***. Permittee shall patch its own work.

(a) County Restoration. If the County restores any part of the right-of-way, permittee shall pay the costs thereof within thirty (30) days of billing. If, the County restores only the surface of the right-of-way and during the twenty-four (24) months following such restoration, the pavement settles, the permittee shall pay to the County, within thirty (30) days of billing, all costs related to restoring the right-of-way or associated with having to correct the defective work, which may include removal and replacement of any or all work done by the permittee. These costs shall include administrative, overhead mobilization, material, labor, and equipment.

(b) Permittee Restoration. If the permittee restores the right-of-way itself, it shall, at the time of application for a permit, post a Construction Performance Bond in an amount determined by the Director to be sufficient to cover the cost of restoration. If, within twenty-four (24) months after completion of the restoration of the right-of-way, the Director determines that the right-of-way has been properly restored, the surety on the Construction Performance Bond shall be released. The County Board shall establish, by resolution, a schedule of Construction Performance Bond amounts for use under this Ordinance.

(c) Degradation Fee and Patching in Lieu of Restoration to PUC Standards. In lieu of right-of-way restoration, a right-of-way user may elect to pay a degradation fee at the County's discretion. However, the right-of-way user shall remain responsible for patching and the degradation fee shall not include the cost to accomplish these responsibilities.

Subd. 3. Standards. The permittee shall perform temporary surfacing, patching and restoration including backfill, compaction, and landscaping according to the standards and with the materials specified by the Director. The Director shall have the authority to prescribe the manner and extent of the restoration, and may do so in written procedures of general application or on a case-by-case basis. The Director in exercising this authority shall comply with PUC standards for right-of-way restoration (see PUC Rules 7819.990 to 7819.9950) and require conformance to MN/DOT standard specifications and local government specifications and drawing and shall further be guided by the following considerations:

(A) The number, size, depth and duration of the excavations, disruptions or damage to the right-of-way;

(B) The traffic volume carried by the right-of-way; the character of the neighborhood surrounding the right-of-way;

(C) The pre-excavation condition of the right-of-way; the remaining life-expectancy of the right-of-way affected by the excavation;

(D) Whether the relative cost of the method of restoration to the permittee is in reasonable balance with the prevention of an accelerated depreciation of the right-of-way that would otherwise result from the excavation, disturbance or damage to the right-

of-way; and

(E) The likelihood that the particular method of restoration would be effective in slowing the depreciation of the right-of-way that would otherwise take place.

Subd. 4. Guarantees. The permittee guarantees its work and shall maintain it for twenty-four 24) months following its completion. During this Twenty-four 24 month period it shall, upon notification from the Director, correct all restoration work to the extent necessary, using the method required by the Director. Said work shall be completed within five (5) calendar days of the receipt of the notice from the Director, not including days during which work cannot be done because of circumstances constituting force majeure or days when work is prohibited as unseasonable or unreasonable under Section 1.16.

Subd. 4(a). Duty to Correct Defects. The permittee shall correct defects in patching, or restoration performed by permittee or its agents. Permittee, upon notification from the County, shall correct all restoration work to the extent necessary, using the method required by the County. Said work shall be completed within five (5) calendar days of the receipt of the notice from the County, not including days during which work cannot be done because of circumstances constituting force majeure or days when work is prohibited as unseasonal or unreasonable under Section 1.16.

Subd. 5. Failure to Restore. If the Permittee fails to restore the right-of-way in the manner and to the condition required by the Director, or fails to satisfactorily and timely complete all restoration required by the Director, the Director at its option may do such work. In that event the permittee shall pay to the County, within thirty (30) days of billing, the cost of restoring the right-of-way. If permittee fails to pay as required, the County may exercise its rights under the Construction Performance Bond.

Sec. 1.14. Joint Installations.

Subd. 1. Joint Installation. Registrants may jointly install facilities for excavation or obstruction of the right-of-way at the same place and time.

Subd. 2. With County Construction Projects. Registrants who join in a scheduled utility installation or obstruction or excavation coordinated with a County construction project by the Director, whether or not it is a joint installation by two or more registrants or a single installation, are not required to pay the permit fee, however, a permit is still required.

Sec. 1.15. Supplementary Applications.

Subd. 1. Limitation on Area. A right-of-way permit is valid only for the area of the right-of-way specified in the permit. No permittee may do any work outside the area specified in the permit, except as provided herein. Any permittee which determines that an area greater than that specified in the permit must be obstructed or excavated must, before working in that greater area, (1) make application for a permit extension and pay any additional fees required thereby, and (2) be granted a new permit or permit extension.

Subd. 2. Limitation on dates. A right-of-way permit is valid only for the dates specified in the permit. No permittee may begin its work before the permit start date or, except as provided herein, continue working after the end date. If a permittee does not finish the work by the permit end date, it must apply for an extension of time and receive the approval of the County, in writing, before proceeding with further work. This supplementary application must be done before the permit end date. Permit applications for non-emergency work shall be submitted a minimum of three weeks prior to the planned start of work. Notwithstanding, if a person is in good standing with the County, and a situation arises that non-emergency work needs to be done sooner than the person can make proper application, the County may grant verbal

approval to begin work. In such case, the required permit application shall be submitted within two business days of the verbal approval.

Sec. 1.16. Other Obligations.

Subd. 1. Compliance With Other Laws. The applicant must notify and obtain a permit from any township or city through which it passes if said township or city so requires. Obtaining a right-of-way permit does not relieve permittee of its duty to obtain all other necessary permits, licenses, and authority and to pay all fees required by the County or other applicable rule, law or regulation. Permittee shall comply with other local codes and with road load restrictions. A permittee shall comply with all requirements of local, state and federal laws, including Minn. Stat. 216D.01-.09 ("Gopher One Call Excavation Notice System"). A permittee shall perform all work in conformance with all applicable codes and established rules and regulations, and is responsible for all work done in the right-of-way pursuant to its permit, regardless of who does the work.

Subd. 2. Prohibited Work. Except in an emergency, and with the approval of the County, no right-of-way obstruction or excavation may be done when seasonally prohibited or when conditions are unreasonable for such work. No open cutting of the bituminous roadway shall be allowed without prior approval from the County. If such approval is granted, it shall not occur between November 15th and April 1st of any given year.

Subd. 3. Interference with Right-of-Way. A permittee shall not so obstruct a right-of-way that the natural free and clear passage of water through the gutters, culverts, ditches tiles or other waterways shall be interfered with. Private vehicles of those doing work in the right-of-way may not be parked within or next to a permit area, unless parked in conformance with County or applicable township or city parking regulations. The loading or unloading of trucks must be done solely within the defined permit area unless specifically authorized by the permit.

Traffic control shall conform to the Minnesota Manual on Uniform Traffic Control Devices, including the Temporary Traffic Control Zones Field Manual and any directions of the County Engineer.

Subd. 4. Verify Location of Facility. At the written request of the County, a person shall determine the exact location of their facility, both vertically and horizontally, by means of "potholing" or some other acceptable method, to expose the facility. Reasons to verify shall include, but are not limited to the following:

1. To verify that the facility was installed at the proper depth and horizontal location per the permit.
2. To verify actual depth and location for (i) a present or future County use of the right-of-way, (ii) a public improvement undertaken by the County or by a city or town under a cooperative agreement with the County, (iii) a public improvement undertaken by a private landowner, as authorized or required by the County, (iv) when the public health, safety and welfare require it, or (v) when necessary to prevent interference with the safety and convenience of ordinary travel over the right-of-way.

All costs to expose the facility shall be done at the permittee's expense or the County may upon written notice to the permittee, expose the facility, at the permittee's expense.

Verification of facilities, both vertical and horizontal, shall be completed within seven (7) calendar days of written notification.

Sec. 1.17. Denial of Permit.

The County may deny a permit for failure to meet the requirements and conditions of this

ordinance or if the County determines that the denial is necessary to protect the public health, safety, and welfare or when necessary to protect the right-of-way and its current and future use. The County may deny a permit if the permittee has failed to comply with previous permit conditions. The County may withhold issuance of a permit until conditions of previous permit are complied with.

Sec. 1.18. Installation Requirements.

The excavation, backfilling, patching and restoration, and all other work performed in the right-of-way shall be done in conformance with Minnesota Rules 7819.1100 and 7819.5000, the restoration plates included in the appendix to this Ordinance, the Wright County Highway Utility Installation Policy, and shall conform to MN/DOT standard specifications and other applicable local requirements, in so far as they are not inconsistent with the Minnesota Statutes Sections 237.162 and 237.163.

Sec. 1.19. Inspection.

Subd. 1. Notice of Completion. When the work under any permit hereunder is completed, the permittee shall furnish a Completion Certificate in accordance with Minnesota Rule 7819.1300.

Subd. 2. Site Inspection. Permittee shall make the work-site available to the County and to all others as authorized by law for inspection at all reasonable times during the execution of and upon completion of the work.

Subd 3. Authority of County.

(a) At the time of inspection the Director may order the immediate cessation and correction of any work which poses a serious threat to the life, health, safety or well being of the public.

(b) The Director may issue an order to the permittee to correct any work which does not conform to the terms of the permit or other applicable standards, rules, laws, conditions, or codes. The order shall state that failure to correct the violation will be cause for revocation of the permit. Within ten (10) days after issuance of the order, the permittee shall present proof to the Director that the violation has been corrected. If such proof has not been presented within the required time, the Director may revoke the permit pursuant to Sec. 1.22.

(c) The cost of any action required by the County shall be paid by the permitee.

Sec. 1.20. Work Done Without a Permit

Subd. 1. Emergency Situations. Each registrant shall immediately notify the Director of any event regarding its facilities that it considers to be an emergency. The registrant may proceed to take whatever actions are necessary to respond to the emergency. Within two business days after the occurrence of the emergency the registrant shall apply for the necessary permits, pay the fees associated therewith and fulfill the rest of the requirements necessary to bring itself into compliance with this Ordinance for the actions it took in response to the emergency.

If the County becomes aware of an emergency regarding a registrant's facilities, the County will attempt to contact the local representative of each registrant affected, or potentially affected, by the emergency. In any event, the County may take whatever action it deems necessary to correct the emergency, the cost of which shall be borne by the registrant whose facilities occasioned the emergency.

Subd. 2. Non-Emergency Situations. Except in an emergency, any person who, without first having obtained the necessary permit, obstructs or excavates a right-of-way must subsequently obtain a permit, pay four times the normal fee for said permit, pay double all the other fees required by this ordinance, and deposit with the County the fees necessary to correct any damage to the right-of-way and comply with all of the requirements of this chapter.

Sec. 1.21. Supplementary Notification.

If the obstruction or excavation of the right-of-way begins later or ends sooner than the date given on the permit, permittee shall notify the County of the accurate information as soon as this information is known.

Sec. 1.22. Revocation of Permits.

Subd. 1. Substantial Breach. The County reserves its right, as provided herein, to revoke any right-of-way permit, without a fee refund, if there is a substantial breach of the terms and conditions of any statute, ordinance, rule or regulation, or any material condition of the permit including a threat to the safety of workers, or the right-of-way user or the utility users. A substantial breach by permittee shall include, but shall not be limited to, the following:

(A) The violation of any material provision of the right-of-way permit;

(B) An evasion or attempt to evade any material provision of the right-of-way permit, or the perpetration or attempt to perpetrate any fraud or deceit upon the County or its citizens;

(C) Any material misrepresentation of fact in the application for a right-of-way permit;

(D) The failure to complete the work in a timely manner; unless a permit extension is obtained, or unless the failure to complete work is due to reasons beyond the permittee's control, or failure to relocate existing facilities as specified in Sec. 1.24; or

(E) The failure to correct, in a timely manner, work that does not conform to a condition indicated on an order issued pursuant to Sec. 1.19.

(F) Failure of the utility to pay any required costs, fees, or charges billed by the County.

(G) Failure to provide traffic control that conforms to the provisions of the Minnesota Manual on Uniform Traffic Control Devices, including the Temporary Traffic Control Zones Field Manual.

Subd. 2. Written Notice of Breach. If the County determines that the permittee has committed a substantial breach of a term or condition of any statute, ordinance, rule, regulation or any condition of the permit the County shall make a written demand upon the permittee to remedy such violation. The demand shall state that continued violations may be cause for revocation of the permit. A substantial breach, as stated above, will allow the County, at its discretion, to place additional or revised conditions on the permit to mitigate and remedy the breach.

Subd. 3. Response to Notice of Breach. Within twenty-four (24) hours of receiving notification of the breach, permittee shall provide the County with a plan, acceptable to the County, that will cure the breach. Permittee's failure to so contact the County, or the permittee's failure to submit an acceptable plan, or permittee's failure to reasonably implement the approved plan, shall be cause for immediate revocation of the permit. Further, permittee's failure to so contact the County, or the permittee's failure to submit an acceptable plan, or

permittee's failure to reasonably implement the approved plan, shall automatically revoke the permit and may include placing the permittee on probation for one (1) full year.

Subd. 4. Cause for Probation. From time to time, the County may establish a list of conditions of the permit, which if breached will automatically place the permittee on probation for one full year, such as, but not limited to, working out of the allotted time period or working on right-of-way grossly outside of the permit authorization.

Subd. 5. Automatic Revocation. If a permittee, while on probation, commits a breach as outlined above, permittee's permit will automatically be revoked and permittee will not be allowed further permits for one full year, except for emergency repairs.

Subd. 6. Reimbursement of County Costs. If a permit is revoked, the permittee shall also reimburse the County for the County's reasonable costs, including restoration costs and the costs of collection and reasonable attorneys' fees incurred in connection with such revocation.

Subd. 7. Revoked Permit. If the County revokes a utility's permit for breach of this ordinance, the utility will not be allowed to install any utility or to obstruct or excavate within the county right-of-way until the breach situation is corrected to the satisfaction of the Director and the permit is reissued.

Sec. 1.23. Mapping Data.

Subd. 1. Information Required. Each registrant and permittee shall provide mapping information required by the County in accordance with Minnesota Rules 7819.4000 and 7819.4100.

Therefore, in managing the use of its public rights of way, the County may establish, develop, and implement a right-of-way mapping system as follows. The purpose of a mapping system is to:

A. allow flexibility in its use by the County as an effective management tool;
B. enhance public safety and user facility safety;
C. provide for long-term cost savings;
D. improve public right-of-way design quality; and
E. allow for better information collection and cooperative usage among local government units, telecommunications companies, and other users of the public right-of-way.

Subd. 1. Application required. When the County requires a permit for an excavation or an obstruction of its public right-of-way, a person wishing to undertake a project within the public right-of-way shall submit a right-of-way permit application, which may require the filing of mapping information pursuant to subdivision 2.

Subd. 2. Information. The County may require as part of its permit application the filing of all the following information:

A. location and approximate depth of applicant's mains, cables, conduits, switches, and related equipment and facilities, with the location based on:
   (1) offsets from property lines, distances from the centerline of the public right-of-way, and curb lines as determined by the local government unit;
   (2) coordinates derived from the coordinate system being used by the local government unit; or
   (3) any other system agreed upon by the right-of-way user and local government unit;
B. the type and size of the utility facility;

C. a description showing above ground appurtenances;
D. a legend explaining symbols, characters, abbreviations, scale, and other data shown on the map, and
E. any facilities to be abandoned, if applicable, in conformance with Minnesota Statutes, section 216D.04, subdivision 3.

Subd. 3. Changes and corrections. The application must provide that the applicant agrees to submit "as built" drawings, reflecting any changes and variations from the information provided under subdivision 2, items A to E.

Subd. 4. Additional construction information. In addition, the right-of-way user shall submit to the County at the time the project is completed a completion certificate according to part 7819.1300.

Subd. 5. Manner of conveying permit data. A right-of-way user is not required to provide or convey mapping information or data in a format or manner that is different from what is currently utilized and maintained by that user. A permit application fee may include the cost to convert the data furnished by the right-of-way user to a format currently in use by the County. These data conversion costs, unlike other costs that make up permit fees, may be included in the permit fee after the permit application process.

Subd. 6. Data on existing facilities. At the request of the County, a right-of-way user shall provide existing data on its existing facilities within the public right-of-way in the form maintained by the user at the time the request was made, if available.

Sec. 1.24. Location and Relocation of Facilities.

Subd. 1. Placement, Location, and Relocation. Placement, location, and relocation of facilities must comply with the Act, with other applicable law, and with Minnesota Rules 7819.3100, 7819.5000, and 7819.5100, to the extent the rules do not limit authority otherwise available to cities and counties. By submitting a request for a permit the person recognizes they must conform to the existing ordinances and codes of other units of government related to underground placement regardless of how the application is written or permit granted.

Utility poles and guy anchors, and any other equipment, shall conform to the National Cooperative Highway Research Program (NCHRP) Report 350 standards for crashworthiness or must be located outside of applicable clear zones. Any installation that does not conform to Minnesota Department of Transportation clear zone standards must be approved by the Director and the facility owner shall indemnify and hold harmless the County. All above ground structures shall be placed at or as near as possible to the right-of-way line.

Subd. 2. Corridors. The County may assign specific corridors within the right-of-way, or any particular segment thereof as may be necessary, as a best management practice for each type of facility that is, or, pursuant to current technology, the County expects will someday be, located within the right-of-way. All right-of-way or other permits issued by the County involving the installation or replacement of facilities shall designate the proper corridor for the facilities at issue. A typical cross section of the location for utilities may be on file at the Director's office. This section is not intended to establish "high density corridors". Any registrant who has facilities in the right-of-way in a position at variance with the corridors established by the County shall, no later than at the time of the next reconstruction or excavation of the area where the facilities are located, move the facilities to the assigned position within the right-of-way, unless this requirement is waived by the County for good cause shown, upon consideration of such factors as the remaining economic life of the facilities, public safety, customer service needs and hardship to the registrant.

Subd. 3. Nuisance. Any utility that is found to have been installed after the passage of this ordinance, and without a permit, in a County right-of-way shall be deemed to be a nuisance. The County may exercise any remedies or rights it has at law or in equity, including, but not limited to, abating the nuisance or taking possession of the facilities and restoring the right-of-way to a useable condition and requiring payment to the County for the costs involved.

Subd. 4. Limitation of Space. To protect health, safety, and welfare or when necessary to protect the right-of-way and its current use, the County shall have the power to use best management practices to prohibit or limit the placement and location of new or additional facilities within the right-of-way. In making such decisions, the County shall strive to the extent possible to accommodate all existing and potential users of the right-of-way, but shall be guided primarily by considerations of the public interest, the public's need for the particular utility service, the condition of the right-of-way, the time of year with respect to essential utilities, the protection of existing facilities in the right-of-way, and future County plans for public improvements and development projects which have been determined to be in the public interest.

Subd. 5. Relocation of Facilities. A registrant must promptly and at its own expense, with due regard for seasonal working conditions, permanently remove and relocate its facilities in the right-of-way whenever the Director for good cause requests such removal and relocation, and shall restore the right-of-way consistent with PUC standards, local regulations and MN/DOT standard specifications. The Director may make such request to prevent interference by the company's equipment or facilities with (i) a present or future County use of the right-of-way, (ii) a public improvement undertaken by the County or by a city or town under a cooperative agreement with the County, (iii) a public improvement undertaken by a private landowner, as authorized or required by the County, (iv) when the public health, safety and welfare require it, or (v) when necessary to prevent interference with the safety and convenience of ordinary travel over the right-of-way.

Relocation Notification Procedure: The Director shall notify the utility owner at least six (6) months in advance of the need to relocate existing facilities so the owner can plan the relocation. The Director shall provide a second notification to the owner one (1) month before the owner needs to begin the relocation. The utility owner shall begin relocation of the facilities within one (1) week of the second notification. All utilities shall be relocated within one (1) month. The Director may allow a different schedule if it does not interfere with the County's project. The utility owner shall diligently work to relocate the facilities within the above schedule.

In the event that emergency work by the County or by a municipality in the County right-of-way requires relocation of a utility, the notification requirements above are waived. The County and utility shall coordinate efforts to minimize delay.

Delay to County Project: The Director shall notify the utility owner if the owner's progress will not meet the relocation schedule. If the owner does not take action to insure the relocation will be completed in accordance with the above schedule and the Director feels this delay will have an adverse impact to a county project, then the Director may hire a competent contractor to perform the relocation. In that event, the county may charge the utility owner all costs incurred to relocate the facility.

The County may charge the utility owner for all costs incurred and requested by a contractor working for the county who is delayed because the relocation is not completed in the scheduled timeframe and for all costs incurred by the county due to the delay.

Notwithstanding the foregoing, according to the PUC rules, a person shall not be required to remove or relocate its facilities from any right-of-way which has been vacated in favor of a non-governmental entity unless and until the reasonable costs thereof are first paid to the person.

However, this does not exempt the utility company from paying for the value of any taking of said property by occupation without compensation.

Sec. 1.25. Pre-excavation Facilities Location.

In addition to complying with the requirements of Minn. Stat. 216D.01-.09 ("One Call Excavation Notice System") before the start date of any right-of-way excavation, each registrant who has facilities or equipment in the area to be excavated shall mark the horizontal placement of all said facilities. Vertical locations shall be marked to the degree of accuracy that they are known. Any registrant whose facilities are in the area of work shall notify and work closely with the excavation contractor to establish the exact location of its facilities and the best procedure for excavation to protect the safety of workers and right-of-way users and other utility users. If the utility is not at the approved depth or location, it shall be exposed at the permittee's expense or by the County upon written notice to the permittee. The County may, upon said notice, locate said utility at the permittee's expense.

Sec. 1.26. Damage to Other Facilities.

When the County does work in the right-of-way and finds it necessary to maintain, support, or move a registrant's facilities to protect it, the Director shall notify the local representative as early as is reasonably possible. The costs associated therewith will be billed to that registrant and must be paid within thirty (30) days from the date of billing. Each registrant shall be responsible for the cost of repairing any facilities in the right-of-way that it or its facilities damages. When the permittee does damage to County facilities in the right-of-way, such as, but not limited to, culverts, road surfaces, traffic control devices, curbs and gutters, or tile lines, they shall correct the damage immediately. If they do not, the County may make such repairs as necessary and charge all of the expenses of the repair to the permittee. The permittee shall pay for said repairs within 30 days of billing. Each registrant shall be responsible for the cost of repairing any damage to the facilities of another registrant caused during the County's response to an emergency occasioned by that registrant's facilities.

Sec. 1.27. Right-of-way Vacation.

Reservation of Right. If the County vacates a right-of-way that contains the facilities of a registrant, the registrant's rights in the vacated right-of-way are governed by Minnesota Rule 7819.3100 subd. 2 and Minnesota Rule 7819.3200 and other applicable laws.

Sec. 1.28. Indemnification and Liability.

By registering with the County, or by accepting a permit under this Ordinance, a registrant or permittee agrees to defend and indemnify the County in accordance with the provisions of Minnesota Rule 7819.1250.

All permits are granted subject to the ownership rights the County may have in the property involved and to the extent that state, federal local laws, rules and regulations allow and said permit is subject to all such laws and rules.

Sec. 1.29. Abandoned or Unusable Facilities.

Subd. 1. Discontinued Operations. A registrant who has determined to discontinue all or a portion of its operations in the County must provide information satisfactory to the County that the registrant's obligations for its facilities in the right-of-way under this chapter have been lawfully assumed by another registrant.

Subd. 2. Removal. Any registrant who has abandoned or unusable facilities in any right-of-way shall remove them from that right-of-way if required in conjunction with other right-of-way repair, excavation, or construction, unless the County waives this requirement.

Sec. 1.30. Appeals.

a) A right- of-way user that: (1) has been denied registration; (2) has been denied a permit; (3) has had permit revoked; or (4) believes that the fees imposed are invalid, may have the denial, revocation, or fee imposition reviewed, upon written request, by the County Board. The County Board shall act on a timely written request on a day agreed to by both parties. A decision by the County Board affirming the denial, revocation, or fee imposition will be in writing and supported by written findings establishing the reasonableness of the decision.

Sec. 1.31. Reservation of Regulatory and Police Powers.

A permittee's or registrant's rights are subject to the regulatory and police powers of the County to adopt and enforce general ordinances necessary to protect the health, safety and welfare of the public.

Sec. 1.32. Severability.

If any portion of this chapter is for any reason held invalid by any court of competent jurisdiction, such portion shall be deemed a separate, distinct, and independent provision and such holding shall not affect the validity of the remaining portions thereof. Nothing in this chapter precludes the County from requiring a franchise agreement with the applicant, as allowed by law, in addition to requirements set forth herein.

Sec. 1.33. Penalty for Violation.

Subd. 1. The County may assess a civil penalty for violation of this Ordinance. Penalties for delay in patching or restoration may range from a minimum of $50.00 per day to a maximum of $500.00 per day. Penalties for performing work in the right-of-way without a permit or for failure to comply with a permit shall be based on the facts of each violation. Factors to be considered include, but are not limited to, costs incurred by the County to correct the violation and costs avoided by the person committing the violation.

Subd. 2. Any person who violates any of the provisions of this Ordinance, or who fails, neglects or refuses to comply with the provisions of this Ordinance, or who knowingly makes any false statement in any document required to be submitted under the provisions hereof, shall be guilty of a misdemeanor and upon conviction thereof, shall be punished by a fine not to exceed $1,000 or by imprisonment not to exceed 90 days, or both. Each day that a violation continues shall constitute a separate offense.

Subd. 3. In the event of a violation of this Ordinance, the Director may request that the County Attorney institute appropriate actions or proceedings, including the seeking of injunctive relief, to prevent, restrain, correct or abate such violations. All costs incurred for such enforcement action may be recovered by the County in a civil action in any court of competent jurisdiction. These remedies may be imposed upon the permittee or other responsible person either in addition to or separate from other enforcement actions.

Additional Document Upload

DESIGN PLANS FOR: _____

STEP 1. UTILITY IDENTIFICATION

Dates

_____ Called Gopher State One Call and got a list of the utility companies in the project area.
_____ Sent out a notification letter explaining the project, possible time lines and request easement data.
_____ Requested mapping data of utility facilities and to have their underground facilities of concern marked in the field and have the Project Designer notified when the marking is complete.

STEP 2. UTILITY LOCATION

Dates

_____ Contacted a survey crew to collect data on any field located utility company facilities.
_____ Survey crew forwarded the data to the Project Designer.

STEP 3. UTILITIES ADDED TO THE PLAN

Dates

_____ Collected utility facility and easement information has been added on to the draft design plans.
_____ Private easement information has been sent to the right of way group. (if required)
_____ Reviewed the information for design conflicts.

STEP 4. PLANS TO UTILITY COMPANIES

Dates

_____ Sent out a copy of the "draft" design plans with the topographic data to the utility companies and requested each company to review the plan sheets for corrections and concerns.

STEP 5. DESIGN MEETING

Dates

_____ Set up a meeting with the utility companies.
_____ Field elevation checks on utility facilities of concern, were set up, (if required).

STEP 6. UTILITY CONFLICT REVIEW

Dates

_____ Contacted a survey crew to collect elevation data on utility company facilities, (if required).
_____ Survey crew forwarded the information to the Project Designer, (if required).
_____ Reviewed the utility elevation data for potential conflicts with the proposed design, (if required).
_____ Set up a second meeting with the utility companies to discuss the outcome of the proposed design.
_____ Reimbursement agreements prepared and sent to all parties.

STEP 7. SEND PLANS

Dates

_____ Sent out the final plans a long with a proposed project letting date and approximate start date.
_____ Sent out the official letter notifying them to begin the process of relocating any affected utility facilities.

STEP 8. UTILITY CHECK

Dates

_____ Utility relocation plan status checked.
_____ Checked with the County permits office for any new utility permits issued in the area.

STEP 9. PERMIT / AGREEMENT PROCESS

Dates

_____ Permits for the relocated facilities have been received.
_____ Reimbursement agreements for facility relocations are in place.

STEP 10. PRECONSTRUCTION MEETING

Dates

_____ Setup a meeting with the Utility companies to discuss relocation plans.
_____ Notified the utility companies on date, time and location of the preconstruction meeting.

UTILITY COORDINATION PROCESS FOR DESIGN PLANS

STEP 1. UTILITY IDENTIFICATION

The Project Designer is responsible for calling Gopher State One Call to get a list of the utility companies in the project area. The Project Designer shall then send out a notification letter explaining the project and possible time lines and to request information about the utility's facilities or to be notified that they have no facilities involved. The letter shall also request the utility to have their underground facilities of concern marked in the field and to be notified when the marking is complete. If the utility company has no concerns as to the relocation of their facilities, as-build maps are acceptable. The letter must request each utility company to supply any easement information they have within 30 days after receiving the letter.

STEP 2. UTILITY LOCATION

The Project Designer will contact a survey crew, when notified that the field markings are complete. The survey crew collects the data on field located utility facilities and forward the data to the Project Designer.

STEP 3. UTILITIES ADDED TO THE PLAN

The Project Designer adds the collected utility facility and easement information on to the draft design plans and reviews the information. The easement information may need to be forwarded to the right of way group.

STEP 4. PLANS TO UTILITY COMPANIES

The Project Designer sends a copy of the "draft" design plans with topographic data to the utility companies and requests each company to review the plan sheets for corrections and concerns.

STEP 5. DESIGN MEETING

The Project Designer sets up a meeting (after a min. of 3 weeks) to review the utility's easements and to discuss any conflicts the utility companies may have. Field elevation checks for conflicts of concern should be discussed and setup if need be. The Utility is to excavate the facility and the designer's survey crew collects the data.

STEP 6. UTILITY CONFLICT REVIEW

The Project Designer will contact the survey crew and let them know when the utility field elevation checks are ready. The survey crew will collect the data on field located utilities and forward the information to the Project Designer. The Project Designer shall review the utility elevation data for potential conflicts with the proposed design. If major conflicts exist, alternative project design changes should be explored and discussed. The Project Designer shall set up a second meeting with the utility companies involved and discuss the outcome of the final proposed design. Reimbursement agreements for the relocation of utility company facilities on private easements will be prepared.

STEP 7. SEND PLANS

The Project Designer will send final plans a long with a proposed project letting date and approximate start date, to the utility companies approximately 120 days prior to the letting date. The official letter notifying the utility companies to begin the process of relocating any affected utility facilities, should be sent with the plans.

STEP 8. UTILITY CHECK

The Project Designer will do a utility check by telephone call, letter and/or Gopher State One Call (60 days prior to the letting date) to hear of the status of the utility companies relocation plans. The Project Designer should also check with the County permits office to see if there have been any new utility permits issued in the area.

STEP 9. PERMIT / AGREEMENT PROCESS

Each affected utility company must obtain all required permits for the relocation of their facilities. Permit fees for public projects are waived. Reimbursement agreements for any facility relocations on private easements need to be in place at this time.

STEP 10. PRECONSTRUCTION MEETING

Construction staff will setup a utility meeting to discuss their relocation plans and inform them of the upcoming date, time, and location of the preconstruction meeting. Utility companies will be required to attend each meeting and supply information as to their relocation plans and time frame.

Supplemental Specifications
For the Construction of Public Infrastructure
In the City of Minneapolis

2019 Edition

Prepared by: City of Minneapolis Department of Public Works

January 14, 2019

Supplemental Specifications for the Construction of Public Infrastructure in the City of Minneapolis

I hereby certify that the changes contained in these Supplemental Specifications for the Construction of Public Infrastructure in the City of Minneapolis, 2019 Edition, were prepared by me or under my direct supervision and that I am a duly registered professional engineer under the laws of the State of Minnesota.

Dated: 1-14-19

Christopher D. DeDene

Christopher D. DeDene, PhD, PE
Materials Engineer
Reg. No. 54211

Supplemental Specifications for the Construction of Public Infrastructure in the City of Minneapolis

UPDATED: January 14, 2019

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DIVISION S - GENERAL SUPPLEMENTAL SPECIFICATIONS

S-1 EMERALD ASH BORER COMPLIANCE

This Project is located, all or in part, in a county that the Minnesota Department of Agriculture has placed under an Emerald Ash Borer Quarantine. Any work for this Contract is subject to the following:

S-1.1 **No** part of an Ash (Fraxinus spp) tree from a quarantined area can be marketed to wood-using industries or individuals without an Emerald Ash Borer compliance agreement with Minnesota Department of Agriculture.
The Contractor shall not make ash or any non-coniferous (hardwood) species with bark attached available to the public for use as firewood from the quarantined area. The Contractor shall not transport entire ash trees, limbs, branches, logs, chips, ash lumber with bark, stumps and roots outside of a quarantined county without fulfilling the requirements of an Emerald Ash Borer Compliance Agreement with the Minnesota Department of Agriculture. Contact the Minnesota Department of Agriculture at 1-888-545-6684 or visit the Emerald Ash Borer website at: http://www.mda.state.mn.us/plants/pestmanagement/eab.aspx to find out which counties are quarantined.

S-1.2 If the ash material is going to be shipped out of Minnesota, the Contractor shall contact John.o.haanstad@aphis.usda.gov for United States Department of Agriculture joint Emerald Ash Borer Compliance Agreement approval with the Minnesota Department of Agriculture.

S-1.3 The Contractor shall dispose of ash trees:
(1) In accordance with the Emerald Ash Borer Compliance Agreement, and
(2) By utilizing the ash wood chips within the construction limits for erosion control, construction exit pads or landscaping purposes.

S-1.4 No direct compensation will be made for compliance with these requirements.

S-2 ENVIRONMENTAL PROTECTION, INVASIVE SPECIES CONTROL

A. AQUATIC INVASIVE SPECIES CONTROL

The Mississippi River and its backwaters are designated as infested by both Wisconsin and Minnesota. Aquatic Invasive Species (AIS) such as zebra mussels, purple loosestrife, Eurasian water milfoil, and Viral Hemorrhagic Septicemia (VHS) are known to be in the area. These pose adverse effects to waters of both Wisconsin and Minnesota. Wisconsin State Statutes 30.07, and Minnesota Statutes 84D.09 details the state laws that prohibit transport of aquatic plants, zebra mussels or other prohibited species. All equipment must be clean prior to arriving on site, and again cleaned prior to leaving the site.

In the State of Minnesota water from infested waters may not be transported on a public road or off riparian property on infested waters except in emergencies or under permit: http://files.dnr.state.mn.us/waters/forms/permit_approp_inf.doc

DNR General Permit to MnDOT (GP 2004-0001) authorizes work in infested waters, though requires that all equipment (such as machinery, pumps, hoses, sheetpile, sediment control materials, excess riprap from in-water fill pads, etc) that have been in contact with waters that are designated as infested waters, shall be inspected by MnDOT or its contractors and adequately decontaminated prior to being transported off site. The MnDNR is available to MnDOT site inspectors and may be able to assist in these inspections.

Wisconsin requires that at construction sites that involve navigable water or wetlands, use cleaning procedures to minimize the chance of spreading exotic invasive species infestation. Procedures must be in place for all equipment that has been in contact with waters of the state and/or infested water or potentially infested water to be clean prior to coming into the site and again prior to leaving the site.

Therefore, the contractor shall ensure that all equipment that has previously been in contact with waters of the state (Minnesota and/or Wisconsin), or with infested or potentially infested waters anywhere (other states or countries), has been decontaminated for aquatic plant materials and zebra mussels and other prohibited invasive species prior to being brought on to the project site or leaving the project site. Use the following inspection and removal procedures (guidelines from the Wisconsin Department of Natural Resources: http://dnr.wi.gov//fish/documents/disinfection_protocols.pdf) for disinfection:

1. Prior to leaving the site, wash machinery and ensure that the machinery is free of all soil, mud, plants, seeds and other substances that could possibly contain aquatic invasive species;
2. Drain all water from boats, barges, trailers, bilges, pumps, hoses, silt curtain, live wells, coolers, buckets, engine compartments, and any other area where water may be trapped;
3. Inspect boat hulls, propellers, trailers and other surfaces. Scrape off any attached mussels and other prohibited invasive species, remove any aquatic plant materials (fragments, stems, leaves, seeds, or roots), and dispose of removed mussels and plant materials in refuse containers or other suitable containment procedure prior to leaving the area or invested waters; and
4. Disinfect boats, barges, equipment and gear that has been in contact with the water by either:
   a. Washing with ~212º F water (steam clean), or
   b. Drying thoroughly for seven (7) days after cleaning with soap and water and/or high-pressure water, or
   c. Disinfecting with either 200 ppm (0.5 oz. per gallon or 1 Tablespoon per gallon) Chlorine for 10-minute contact time or 1:100 solution (38 grams per gallon) of Virkon Aquatic for 20- to 30-minute contact time. Note: Virkon is not registered to kill zebra mussel veligers nor invertebrates like spiny water

flea. Therefore this disinfect should be used in conjunction with a hot water (>104º F) application, or.

d. If upon visual inspection and removal any plant or animal material, twenty-one (21) days of complete drying.

Note: Complete inspection and removal procedures shall occur before equipment is brought to the project site and before the equipment leaves the project site.

B. UPLAND INVASIVE SPECIES CONTROL

In order to avoid spreading upland invasive species outside of the project site, establish staging areas for storing equipment and materials at the boat landing parking lot or on the paved roadway. Apply the same cleaning protocol as established to remove aquatic invasive species (**see Part A, Aquatic Species Control).**

Prior to leaving the project site, wash machinery and boots to ensure that they are free of all soil and other substances that could possibly contain invasive species.

Complete the inspection and removal procedure before the equipment leaves the project site.

C. MEASUREMENT AND PAYMENT

No measurement or payment shall be made for controlling aquatic or upland invasive species.

S-3 (1305) REQUIREMENT OF CONTRACT BOND

For the purpose of these Supplemental Provisions MnDOT 1305 shall govern, except with the following modifications and amendment(s):

For SIDEWALK PERMITS ONLY

The contractor shall furnish and present insurance documentation satisfactory to the City Engineer as is required by the City ordinance for all persons performing work on the public sidewalks, among other things indemnifying the City against all claims for damages arising by reason of negligence of the contractor in the construction of the sidewalk, or from obstruction of the streets or from any other cause, and guaranteeing to maintain their work free from defects for a period of two (2) years, all as provided in Ordinance 437.30 of the City of Minneapolis passed January 28, 1898, as amended.

For all other bonds, Minneapolis Code of Ordinance 429 applies

S-4 (1404) MAINTENANCE OF TRAFFIC, (1707) PUBLIC SAFETY

The provisions of 1404 are supplemented as follows:

The Contractor shall furnish, install, maintain, and remove all traffic control devices required to provide safe movement of vehicular and/or pedestrian traffic passing through the work zone

during the life of the Contract from the start of Contract to the final completion thereof. The Engineer will have the right to modify the requirements for traffic control as deemed necessary due to existing field conditions.

Traffic control devices include, but are not limited to, concrete barriers, barricades, warning signs, advance warning signs, trailers, flashers, cones, drums, pavement markings and flaggers as required and sufficient barricade weights to maintain barricade stability.

Pedestrian Access During Construction:

The Contractor shall note that long-term closures of any corner of an intersection to pedestrians will not be allowed on this project. With regards to the requirement, the Contractor shall note the following:

-The Contractor must maintain pedestrian access on all corners of each intersection at all times unless specifically approved by the Engineer and the City.

-The Contractor shall provide sufficient secure temporary ramps for pedestrian and wheelchair access where existing pedestrian curb ramps are closed and pedestrian traffic is diverted around the work on a corner of an intersection.

-The Contractor shall provide, install, maintain, relocate, and remove all required concrete barrier around the corner of an intersection under sidewalk and signal construction to protect both pedestrians and the work during construction. Concrete barrier shall be provided on both the work side and the traffic side on each corner to sufficiently protect pedestrians during construction. At least a 5-foot wide level walkway must be maintained on each corner during construction at all times unless otherwise specifically approved in the field by the Engineer and the City of Minneapolis.

-Temporary adjacent traffic lane and parking lane closures may be allowed as approved by the Engineer to facilitate construction and equipment placement during construction. For any lane closures approved by the Engineer, the Contractor is required to provide, install, maintain, and remove all appropriate traffic control devices (cones, barricades, barrels, signs, etc.), all in accordance with the Field Manual.

-Pedestrian access to any doors for local residences and businesses in the area of construction must be maintained at all times unless otherwise approved by the Engineer and the City of Minneapolis.

-“Sidewalk Closed” signing and diverting of pedestrian traffic to another corner of the intersection during construction will not be allowed unless otherwise specifically approved in the field by the Engineer and the City of Minneapolis.

Bus Passenger Waiting Shelters:

If a bus passenger waiting shelter will be disturbed, the contractor shall notify both the owner of the shelter and the City of Minneapolis Public Works Traffic and Parking Services Division (Traffic and Parking Services) (612) 673-5759.

Two types of bus passenger waiting shelters exist on the right-of-way in Minneapolis. CBS Outdoor (612) 919-5923 owns bus shelters with advertising panels. Bus shelters without advertising are owned by Metro Transit (612) 349-7310.

At least ten days advance notice to Traffic and Parking Services and the owner of the shelter is required if a shelter is to be moved.

When the sidewalk is to be replaced under a shelter, there should be no expansion joints in the sidewalk under the shelter whenever possible. All CBS Outdoor bus shelters and most Metro Transit bus shelters are connected to an electrical service point by buried conduit. The service point may be a City ornamental street light, an Excel Energy service point, or a private third-party source. The owner of the shelter will inform the City of the location of this conduit when requested. The cost for repairing or replacing damaged conduit shall be charged to the contractor and/or the property owner.

City Code provides that if a CBS Outdoor shelter must be temporarily removed for construction done by the City of Minneapolis or its contractor, then CBS Outdoor shall, at its own cost, remove the shelter when requested to do so by the City Engineer. The City may also order CBS Outdoor to temporarily remove a shelter for an abutting property owner's construction at the property owner's expense.

Protection of the Work Site:

The contractor shall erect and continuously maintain barricades to protect each job site immediately upon removal of the existing concrete. In a location where section(s) of the public sidewalk have been removed, two barricades will be required, one on each end of each work location. The number and placement of barricades required will be subject to the approval of the City Sidewalk Inspector, and may also be subject to the approval of the City Lane Use Administrator, (612) 673-5755.

Mid-block Pedestrian Ramps:

The Traffic and Parking Services Division, 300 Border Ave S, phone (612) 673-5759, and the Sidewalk Inspections office located at 1901 E 26th Street, phone (612) 673-2420, must approve plans for any new construction of a mid-block pedestrian ramp. The plan should show the following items:
The location of the ramp in relation to the address of the requesting party.
The property lines of the requesting party's property should be shown.
The ramp should be designed in accordance with the Supplemental Provisions.

In addition, the following concerns will be evaluated regarding each ramp request: The proximity of trees, hydrants, or driveways, the type of boulevard, the type of dwelling unit, any

impact on the sidewalk, any existing parking restrictions or zones, and the presence of parking meters, electrical conduit, and other infrastructure or obstructions.

The plan shall be accompanied by a written statement by the requesting party describing the nature of the request and a signed statement acknowledging that the placement of the ramp does not grant any exclusive rights to the requesting party for the use of the curb space or the ramp.

The establishment of a Handicap Transfer Zone or Handicap Parking Zone along the curb adjacent to the proposed ramp is not required but may be desirable. Contact the Traffic and Parking Services Division (612)-673-5759, at 300 Border Ave S, for details.

After the City Traffic and Parking Services Division grants its approval, your plans must be submitted to the Public Works Sidewalk Inspections office, 1901 E 26th St., phone (612) 673-2420, for a "Sidewalk Construction Permit". Contractors who have submitted a bond, kept on file with the City Public Works Sidewalk Inspections office, are eligible to obtain the Sidewalk Construction Permit.

Drive Approaches:

No driveway approach shall be installed without first submitting plans. If a new drive Approach is to be installed on a street other than a trunk highway, four (4) copies of the plan, of Engineering quality, in a minimum size of 8 ½ inches by 11 inches, and at a scale of 1/32 inch per foot, or 20, 30, or 50 foot per inch, showing complete details of the drive approach and driveway layout, shall first be submitted to the Development Review Coordinator, Minneapolis One Stop, Room 300, 250 South Forth Street, Minneapolis, MN, 55415-1335, (612) 673-5867, for approval. Plans must be submitted three to four weeks in advance of the actual start of construction so that the plans can be reviewed by Zoning and by Public Works staff.

See Minneapolis Department of Public Works Standard Plate Number ROAD- 2000 for driveway approach dimension requirements.

Measurement and Payment:

No measurement will be made of the various Items that constitute Traffic Control but all such work will be construed to be included in the single Lump Sum payment under Item 2563.601 (Traffic Control).

S-5 (1502) PLANS AND WORKING DRAWINGS

If shop drawings are required, the Contractor shall coordinate all such drawings, and review them for accuracy, completeness, and compliance with contract requirements and shall indicate it’s approval thereon as evidence of such coordination and review. The Contractor shall identify in writing all changes, deviations or substitutions from the requirements of the contract documents. The review of any Contractor submittal is not deemed to authorize changes or substitutions from the requirements of the contract documents unless the Engineer specifically

authorizes the change or substitution. The review without exception by the Engineer shall not relieve the Contractor from responsibility for any errors or omissions in such drawings.

S-6 (1504) COORDINATION OF CONTRACT DOCUMENTS

The State of Minnesota, Department of Transportation "Standard Specifications for Construction", 2018 edition, shall govern, except where modified or amended by other contract documents and applicable City Code. All reference to other Specifications of AASHTO, ASTM, ANSI, AWWA, etc. shall mean the latest published edition available on the date of advertisement for bids. City of Minneapolis, Public Works Standard Plates are hereby incorporated into these Supplemental Specifications. The Standard Plates and this Supplemental Specifications for Construction of Public Infrastructure are available at the following web address:

http://www.ci.minneapolis.mn.us/publicworks/plates/index.htm

Definitions/Order of Precedence

For the purpose of these Supplemental Specifications the following terms shall have these definitions: "City" means the City of Minneapolis, Minnesota. "City Engineer" means the City Engineer of the City of Minneapolis or any other designated representative. The order of precedence for work performed under these supplemental specifications shall be:

1. The City of Minneapolis Code of Ordinances (City Code).
2. Addenda
3. Special Provisions
4. Project-Specific Plan Sheets
5. The Supplemental Specifications for Construction of Public Infrastructure in the City of Minneapolis
6. City of Minneapolis, Public Works Standard Plates
7. MnDOT Standard Plan Sheets and Standard Plates
8. The State of Minnesota, Department of Transportation "Standard Specifications for Construction", 2018 edition

S-7 (1507) UTILITY PROPERTY AND SERVICE

Work near utilities shall be in accordance with the provisions of 1507 and the following:

The Plan contains information relative to the location of existing utilities to the extent this information is available from the respective utility owners. The City does not guarantee the locations as shown in the Plan. It shall be the Contractor's responsibility to contact Gopher State One Call and to ascertain the actual location of these utilities prior to commencing construction. The Contractor shall be solely responsible for verifying the exact location of each of these facilities.

It will be the Contractor's responsibility to contact the owners of all utilities in any area prior to the construction in the area so that he can be informed of the exact locations of all the utilities in the area including any that are not shown in the plans. It will also be the Contractor's

responsibility to: (1) report any existing damage or faulty condition (i.e. sand in manholes, damaged valve boxes, etc.) to the owners prior to construction, as once excavation has commenced it will be assumed that all damage to underground installations has been caused by the Contractor's operations and it will be its responsibility to make the necessary repairs; and (2) upon completion of the project, contact all utility owners and make arrangements for a field inspection trip by a representative of the Contractor and representatives of the utility owners to confirm that all damages caused by the Contractor's operations have been repaired to the satisfaction of the owners.

The City shall not be held responsible for any delay that the Contractor may encounter by reason of the utility company involved failing to promptly do their necessary work. It shall be the Contractor's responsibility to meet with the affected utility companies as soon as possible to coordinate timely relocations. It shall be the Contractor's responsibility to coordinate work with the utility companies to accomplish utility relocations and to preserve the existing condition of any utilities to remain in their current location. Additionally, the Contractor shall provide for the continuance of service of such utilities where such service may be disrupted as a result of the Contractor's operations. It shall be the Contractor's responsibility to ensure all excavations are thoroughly backfilled and compacted according to these specifications to prevent any displacement or settlement of the utility facility. No deviation from the approved line or grade of any proposed City utility work (sewer, storm drain or water main, etc.) due to conflicts with existing utilities shall be made without first obtaining the written consent of the City Engineer.

Any utilities to be abandoned by the utility owners shall be removed by the Contractor in accordance with MnDOT standard specification 2104 and S-16 of these Standard Supplemental Specifications.

No sewer or storm drain work performed on private connections shall commence before an extension permit or connection permit has been applied for and approved by the Utility Connections Department. The contractor shall comply with all terms of the permit.

When working on any part of an existing sanitary or storm system, every effort shall be made to prevent construction debris from entering into the system. If construction debris does enter into the sewer system it must be removed immediately, or as soon as is reasonably possible. If the construction debris enters the system under flow, or flow occurs before the construction debris is removed, all affected infrastructure shall be cleaned and the construction debris removed, including infrastructure outside of the project area.

The Contractor shall notify the Maintenance Supervisor of SWS Operations Office 48 hours prior to commencing any work on, inspection of or access to any part of the SWS Sewer or Storm Drain system. Contact telephone number for the Maintenance Supervisor is (612) 673-5625. All work on City sewer and storm drain system shall be inspected by a designated representative of SWS. Until the contractor receives written notice from SWS of acceptance of the work covered by approved plans, the Contractor will be responsible for any sewer or storm drain related problems. All laboratory tests shall be submitted to SWS and approved prior to restoration of the work area subject to testing. SWS Operations will determine the need to have representatives on site to observe utility testing.

All design changes and all field modifications that change pipe clearance or change the size, grade or alignment of an SWS sewer or storm drain shall be approved by SWS prior to commencing work on those changes. All design changes shall be submitted 72 hours before work is to commence

The Contractor shall provide record drawings of all sewer and storm drain work in electronic and paper format to SWS Design, 309 2nd Avenue S, Room 300 regardless of ownership of work. Section S-35 of this document outlines the requirements for sewer and storm drain record drawings.

S-8 (1514) MAINTENANCE DURING CONSTRUCTION

The requirement to maintain the Project Roadway is extended to include all roadway, sidewalk, and bike path affected by the project. All temporary work necessary to maintain the roadway/sidewalk/bike path open for traffic shall be considered incidental to the contract with no direct compensation made therefore.

The Contractor's requirements for sweeping as required under MnDOT 2051 shall mean that the City Engineer may require additional street sweeping of the Haul Roads and the roads adjacent to the construction site to provide safe conditions for the traveling public, to prevent environmental damage, or to comply with local regulatory requirements. See Appendix B-10 for additional guidance on vehicle tracking Best Management Practices (BMPs). The Contractor shall maintain drainage for all temporary roadways and work sites at all times. When existing drainage facilities are severed or otherwise rendered inoperable, the Contractor shall construct as much of the designed drainage system as may be necessary to maintain adequate drainage. Temporary grading and/or ditching may also be required to maintain drainage. Any temporary grading and ditching that is required shall be completed as an incidental expense unless it is part of the designed project earthwork. All temporary drainage work shall be completed to the satisfaction of the Engineer. All side slopes adjacent to temporary bypasses shall be effectively maintained against erosion and stabilized within 7 days after the end of active work. In the event erosion occurs, the Contractor shall reshape the slope to its original elevations and cross section in accordance with Article 52 of City Code. The side slope maintenance is required to ensure the integrity and traffic carrying ability of the adjacent temporary bypass.

The Contractor shall comply with Erosion Control Specifications and/or with the Erosion Control Plan. That compliance does not relieve the Contractor from their responsibility for cleaning the sewer system should any soil be washed into it.

S-9 (1515) CONTROL OF HAUL ROADS

If the Contractor's use of City roads, other than the roads agreed to by the City, result in damage or decrease in the recorded Pavement Condition Index, it shall be the Contractor's responsibility to provide restitution to the City for repairs or replacement of the roads. Repairs will be determined based on Minneapolis Code of Ordinances 429 and 430.

S-10 (1702) PERMITS, LICENSES AND TAXES

For the purpose of these Standard Supplemental Specifications MnDOT 1702 shall govern, except with the following modifications and amendment(s):

A "Sidewalk Construction Permit" shall be obtained for each and every job done under the required $15,000.00 Sidewalk Contractor's bond. All permits must be obtained before any demolition or actual construction work begins. Each job will consist of the work done adjacent to a single property, unless other arrangements are made with the Sidewalk Inspections Office. Application for the Sidewalk Construction Permit shall be submitted by the Contractor online at:

www.sidewalk.mpls.mn.roway.net

The City Code pertaining to Sidewalk Construction Permit fees reads as follows:

> *"437.20. Permit required fees. No person shall construct any sidewalk, curb, curb and gutter, or other pavement within the public right of way without first obtaining a permit from the city engineer and paying a permit fee of ten (10) percent, based upon the value of the work as established annually by the district sidewalk contractor's accepted bid prices and by the City of Minneapolis unit prices list for such work"*

All work within the public right of way must be done by a bonded contractor under the supervision of the City Engineer, or their designated representative, who will see that these Standard Supplemental Specifications are rigidly followed. The contractor shall obtain a "Sidewalk Contractor's Bond" in the amount of $15,000 in order to perform work in the Public Right of Way. The bond shall be held on file at the Department of Public Works, Sidewalk Inspections office. The Sidewalk Inspections office maintains a listing of all contractors who are properly bonded. To obtain a list of bonded Contractors contact the City at 612-673-3000.

The Sidewalk Inspector is to be notified at least three (3) days in advance of any construction. The Sidewalks Inspector’s name and telephone number appear on the Contractor’s copy of the Sidewalk Construction Permit.

Please make all checks payable to: City of Minneapolis Finance Department Sidewalk Construction Permits as issued by the Sidewalk Inspections office will be in the contractor's possession, on site, while the work is being performed. Any City licenses and permits required to perform electrical, sewer or water work on this project shall be obtained from the appropriate City of Minneapolis office by the Contractor at its cost.

MPRB FORESTRY TREE REMOVAL, PRUNING, OR PLANTING PERMITS

A permit is required to remove, prune or plant a tree on any City owned property. Tree removal and planting approved by MPRB Forestry through formal City Review shall constitute compliance. Application for tree removal, pruning and planting permits shall be requested by contacting MPRB Forestry at 3800 Bryant Ave S., Minneapolis- Telephone # (612)-499-9233

All tree work within the public right of way must be done by a Minneapolis Licensed Tree Contractor. The Inspections office maintains a listing of all contractors who are properly licensed. To obtain a list of Minneapolis Licensed Tree Contractors call 311 or visit http://www.minneapolismn/licensing/treeservicecontractors
The City Code pertaining to Tree removal and pruning reads as follows:

PB10-9. - Damaging trees

No person shall remove, destroy, cut, deface, trim or in any way injure or interfere with any tree or shrub on any of the avenues, streets or public grounds, including parks and parkways, without a permit from the general superintendent of parks. (Code 1960, As Amend., § 1020.090)

STREET USE PERMIT
From City Transportation Division
300 Border Avenue North
Telephone # (612) 673-5750

EXCAVATION, UTILITY CONNECTION & EROSION CONTROL PERMITS
Public Health Center, Room 222
250 South 4th Street
Telephone # (612) 673-2451

WATER DEPARTMENT FIRE HYDRANT PERMIT
Hydrant taps can be obtained and water purchased at residential rates at hydrants designated by the City. Hydrant Permits are available through the City of Minneapolis Water Department
Telephone # (612)-673-2865

AFTER HOURS WORK PERMIT AND/OR NOISE PERMIT
Available from the City of
Minneapolis, Inspections Department
Telephone # (612) 673-2635

or visit:

http://www.minneapolismn.gov/publicworks/permits/public-works_pw-construction-permits

The City of Minneapolis reserves the right to withhold the issuing of any future permits to any Contractor until any current problems or failures to meet these special provisions are resolved, to the satisfaction of all parties.

S-11 (1710) TRAFFIC CONTROL DEVICES

Section 1710 is hereby supplemented to include the following:
Traffic control devices shall be provided in accordance with the provisions of 1710 and the latest edition of the Minnesota Manual on Uniform Traffic Control Devices (MMUTCD) and Part IV, Field Manual for Temporary Traffic Control Zone Layouts, except as modified as herein:

The first paragraph of 1710.2 is revised to read as follows:

The Contractor shall furnish, install, maintain and remove all traffic control devices in accordance with these Standard Supplemental Specifications and the Minnesota Manual on Uniform Traffic Control Devices (MMUTCD) - including the Field Manual for "Temporary Traffic Control Zone Layouts", latest edition. The Engineer will have the right to modify the requirements for traffic control as deemed necessary due to existing field conditions. The Contractor's responsibilities under this section include, but are not limited to, the following:

Subparagraph (2) of the first paragraph of 1710.2 is revised to read as follows:

(2) To control and guide traffic through the project and over any temporary bypasses.

The provisions of 1710.5 including all supplements thereto are hereby deleted from the Contract.

All temporary metal orange warning signs shall be fabricated with Type DGC (Diamond Grade Cubed) sheeting and metal orange regulatory guide signs shall be fabricated with Type HIP (High Intensity Prismatic) Sheeting.

Long term traffic control devices shall be inspected on a daily basis and maintained for the duration of use. Inspections of the traffic control devices shall be documented and presented to the City of Minneapolis upon request. Appendix A contains a sample of the traffic control log

S-12 (1717) AIR, LAND AND WATER POLLUTION

A. Discovery of contaminated materials and regulated wastes

If during the course of the Project, the Contractor unexpectedly encounters any of the following conditions indicating the possible presence of contaminated soil, contaminated water, or regulated waste, the Contractor shall immediately stop work in the vicinity and request suspension of work in the vicinity of the discovery area, in accordance with MnDOT 1803.6.

A documented inspection and evaluation will be conducted prior to the resumption of work. The Contractor shall not resume work in the suspected area without authorization by the Engineer. The Contractor shall adhere to all laws and regulations as they relate to excavating, stockpiling, hauling and disposing of contaminated materials.

B. Indicators of contaminated soil, ground water or surface water include, but are not limited to the following:

(1) Odor including gasoline, diesel, creosote (odor of railroad ties), mothballs, or other chemical odor.

(2) Soil stained green or black (but not because of organic content), or with a dark, oily appearance, or any unusual soil color or texture.

(3) A rainbow color (sheen) on surface water or soil.

C. Indicators of regulated wastes include, but are not limited to the following:

(1) Cans, bottles, glass, scrap metal, wood (indicators of solid waste and a possible dump)

(2) Concrete and asphalt rubble (indicators of demolition waste).

(3) Roofing materials, shingles, siding, vermiculite, floor tiles, transite or any fibrous material (indicators of demolition waste that could contain asbestos, lead or other chemicals).

(4) Culverts or other pipes with tar-like coating, insulation or transite (indicators of asbestos).

(5) Ash (ash from burning of regulated materials may contain lead, asbestos or other chemicals).

(6) Sandblast residue (could contain lead).

(7) Treated wood including, but not limited to products referred to as green treat, brown treat and creosote (treated wood disposal is regulated).

(8) Chemical containers such as storage tanks, drums, filters and other containers (possible sources of chemical contaminants).

(9) Old basements with intact floor tiles or insulation (could contain asbestos), sumps (could contain chemical waste), waste traps (could contain oily wastes) and cesspools (could contain chemical or oily wastes).

The Contractor is reminded that if they suspect that they have encountered contaminated soil, water or regulated waste that they should contact the State Duty Officer immediately at 1-800-422-0798 or 1-651-649-5451 and shall also notify the City of Minneapolis Superintendent of Environmental Engineering at 612-673-2456.

S-13 (1717) AIR, LAND AND WATER POLLUTION (CONCRETE GRINDING AND SAWING)

Supplement MnDOT Section 1717 with the following:

DIAMOND SURFACING, CONCRETE SAWING and BITUMINOUS SAWING

Residue and excess water resulting from this operation shall be removed from the roadway by a continuous vacuum and collection system. Residue and water shall not be permitted to flow across adjacent traffic lanes, onto shoulders, off bridge decks, into gutters, or enter closed drainage systems. The Contractor is responsible for providing a suitable means to manage the grinding residue.

In urbanized areas with closed drainage systems, the slurry shall be collected and transported to a lined containment pond constructed by the contractor. To ensure a spill does not occur during transport the slurry should be collected in water-tight haul units. The containment ponds may be constructed within or outside the right-of-way. The contractor must submit a slurry management plan along with written assurance of proper handling during all phases of transport and disposal at the preconstruction conference or at least 30 days prior to diamond grinding for approval by the Engineer. Areas outside of the Right-of-Way may require a separate NPDES construction storm water permit.

At a minimum, the slurry management plan must include the following information for any proposal that will use a containment pond (pit):

- Provide an estimate of the volume of slurry that will be produced on the project and the volume of the containment pond (pit).
- Ownership and location of the containment pond.
- The plan must address if the pond will be lined with clay (including thickness of clay layer) or if an impermeable membrane will be used (including thickness of membrane).
- Describe how the water will be managed. Examples: Will the water be allowed to evaporate or once the fines have settled will the containment pond be dewatered and the water reused in the grinding operation, slurry broadcast operation, used in a commercially useful manor (i.e. dust control, grade compaction), or sent via sanitary sewer or hauled to a water treatment facility? *If disposing at a treatment facility, the name of the treating facility must be provided.
- Describe how the solids (fines) will be managed. Examples: Will the solids be used as a fill material, a component in recycled aggregate or any other commercially useful application, transported to a facility where they can be stored for future, or disposed of in a landfill? The Contractor shall furnish the Engineer with a document that identifies the name and location of the reuse storage facility or a MPCA permitted lined mixed municipal solid waste or industrial landfill that the solids will be deposited.
- Any proposed reuse of water or solids must be fully described in the plan. Solids reuse must include a description of the engineering need for the material. The pond area shall be reclaimed to its original condition and vegetated as appropriate to protect against erosion.

S-14 (1717) NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT

Pollution of natural resources of air, land and water by operations under this Contract shall be prevented, controlled, and abated in accordance with the rules, regulations, and standards adopted and established by the Minnesota Pollution Control Agency (MPCA), and in accordance with the provisions of MnDOT 1717, these Special Provisions, and the following:

The Contractor is a co-permitee with the City to ensure compliance with the terms and conditions of the General Storm Water Permit (MN R100001) and is responsible for those portions of the permit where the operator is referenced. A copy of the "General Permit Authorization to Discharge Storm Water Associated with a Construction Activity under the National Pollutant Discharge Elimination System (NPDES)/State Disposal System Permit Program" is available at:

http://www.pca.state.mn.us/water/stormwater/stormwater-c.html

The Contractor shall apply and pay for the NPDES Permit on this Project. The Contractor shall complete the application process, and post the Permit and MPCA's letter of coverage onsite. Some work in waters of the state may require additional permits from the Minnesota Department

of Natural Resources and may require additional permits from the U.S. Army Corps of Engineers even if not required in these specifications.

No work which disturbs soil and/or work in waters of the state will be allowed on this Project until the NPDES Permit is in effect and the Department has received the required documentation.

The Contractor shall be solely responsible for complying with the requirements listed in Part II.B and Part IV of the General Permit.

The Contractor shall be responsible for providing all inspections, documentation, record keeping, maintenance, remedial actions, and repairs required by the permit. All inspections, maintenance, and records required in the General Permit Paragraphs IV.E, shall be the sole responsibility of the Contractor. The word "Permitee" in these referenced paragraphs shall mean "Contractor". Standard forms for logging all required inspection and maintenance activities shall be used by the Contractor. All inspection and maintenance forms used on this Project shall be turned over to the Engineer every two weeks for retention in accordance with the permit. The Contractor shall have all logs, documentation, inspection reports on site for the Engineer's review and shall post the permit and MPCA's letter of coverage on site. The Contractor shall immediately rectify any shortcomings noted by the Engineer. All meetings with the MPCA, Watershed Management Organization (WMO), or any local authority related to General Permit compliance shall be attended by both the Engineer and the Contractor. No work required by regulatory agencies, for which the Contractor would request additional compensation, shall be started without proper approval from the Engineer. No work required by regulatory agencies, where the changes will impact the design or requirements of the Contract documents or impact traffic shall be started without proper approval from the Engineer.

The Contractor shall immediately notify the Engineer of any site visits by Local Permitting Authorities performed in accordance with Part V.H.

Emergency Best Management Practices must be enacted to help minimize turbidity of surface waters and relieve runoff from extreme weather events. It is required to notify the MPCA Regional Contact Person within 2 days of an uncontrolled storm water release. The names and phone numbers of the MPCA Regional Contract personnel can be found at: http://www.pca.state.mn.us/water/stormwater/stormwater-c.html. The Contractor is reminded that during emergency situations involving uncontrolled storm water releases that the State Duty Officer must be contacted immediately at 1-800-422-0798 or 1-651-649-5451.

The Contractor shall review and abide by the instructions contained in the permit package. The Contractor shall hold the City harmless for any fines or sanctions caused by the Contractor's actions or inactions regarding compliance with the permit or erosion control provisions of the Contract Documents.

The Contractor is advised that Section 1 of the NPDES application form makes reference to a Storm Water Pollution Prevention Plan (SWPPP). This Projects' SWPPP is addressed throughout MnDOT's Standard Specifications for Construction, as well as this Project's Plan and these

Special Provisions. The following table identifies NPDES permit requirements and cross-references where this Contract addresses each requirement.

NPDES Permit Requirements	Cross-Reference within this Contract
Obtain NPDES Permit; Permit Compliance; Submit Notice of Termination	MnDOT 1701, 1702; Special Provisions: 1717 (Air, Land & Water Pollution), 1717 (National Pollutant Discharge Elimination System (NPDES) Permit)
Certified Personnel in Erosion / Sediment Control Site Management Develop a Chain of Command	MnDOT 1506; Special Provisions: 1717 (Air, Land & Water Pollution), 1717 (National Pollutant Discharge Elimination System (NPDES) Permit); and 2573 (Erosion Control Supervisor).
Project / Weekly Schedule (for Erosion / Sediment Control) Completing Inspection / Maintenance Log / Records	Special Provisions: 1717 (Air, Land & Water Pollution), 1717 (National Pollutant Discharge Elimination System (NPDES) Permit); and 2573 (Erosion Control Supervisor)
Project Specific Construction Staging	The Plans; Special Provisions: 1717 (Air, Land & Water Pollution), 1717 (National Pollutant Discharge Elimination System (NPDES) Permit); and1806 (Determination and Extension of Contract Time)
Temporary Erosion / Sediment Control	The Plans; MnDOT 2573 Special Provisions: 2573 (Rapid Stabilization Specifications), and 2573 (Inlet Protection)
Maintenance of Devices / Sediment removal Removal or Tracked Sediment Removal of Devices	The Plans; MnDOT 2573.3; Special Provisions:1514 (Maintenance During Construction); 1717 (Air, Land & Water Pollution), 1717 (National Pollutant Discharge Elimination System (NPDES) Permit), and 2573 (Inlet Protection)
Dewatering	MnDOT 2105.3B and 2451.3C; May also require DNR Permit
Temporary work not shown in the Plans	Special Provisions: 1717 (Air, Land & Water Pollution),

Grading areas (unfinished acres exposed to erosion)	1717 (National Pollutant Discharge Elimination System (NPDES) Permit); 2573 (Erosion Control Supervisor), 2573 (Inlet Protection) and 2573 (Rapid Stabilization Methods).
Permanent Erosion / Sediment Control and Turf Establishment	The Plans; MnDOT 2573 and 2575; Special Provisions: 1717 (Air, Land & Water Pollution), 1717 (National Pollutant Discharge Elimination System (NPDES) Permit), and 2575 (Turf Establishment)

Appendix B outlines Erosion and Sediment Control guidance for Land Disturbance Activities in the City of Minneapolis. It contains several BMP guidance documents and samples of: Inspector's Logs, Maintenance Record's Logs, and the NPDES Construction Site Permit Holder Inspection Form.

S-15 (1803) PROGRESS SCHEDULES

The second paragraph of Section 1803.3 is hereby deleted and the following substituted therefore:

> The hours of operations shall be limited to 7:00 a.m. until 6:00 p.m. Monday through Friday and from 8:00 a.m. until 6:00 p.m. on Saturday except when provisions of a Noise Permit further limit work hours. The Contractor shall contact Regulatory Services at 612-673-2635 to determine whether a Noise Permit is required and whether the Noise Permit will limit work hours. No work will be allowed on Sundays or outside these hours, unless an emergency situation exists and requires immediate correction.

S-16 (2104) REMOVE PAVEMENT & MISCELLANEOUS STRUCTURES

The provisions of MnDOT Specification 2104 shall govern as amended below:
2104.3C Add the following:

Pipe sewers and drainage pipes which are to be abandoned shall be bulk-headed with brick or concrete block masonry eight inches (8") thick at the upstream ends, at downstream ends that connect to catch basins, manholes, or pipes 36 inches or greater in diameter, and at locations noted on the approved plans. Mainline sewer pipe (excluding catch basin leads) to be abandoned having a 12-inch or larger inside diameter, shall be filled with material specified on the approved plans. A site verification of the abandonment work will be made by the Maintenance Supervisor of SWS Operations Office prior to backfilling the abandonment work on any part of the SWS Sewer or Storm Drain system. Contact telephone number for the Maintenance Supervisor is (612) 673-5625. The Contractor shall supply Record Drawings of the abandoned facilities in the Record Drawing Format specified

in Section S-36 of this document.

Prior to restoring the trench area, the edges of the trench shall be trimmed back to a vertical face on a straight line which is parallel with the centerline of the trench. Trimming trench area shall be considered incidental to the Contract with no direct compensation made.

S-17 (2105) EXCAVATION AND EMBANKMENT

Supplement MnDOT Section 2105 with the following:

All excavations for this project must be adequately sloped, or sheeted and braced, in accordance with applicable Occupational Safety and Health Administration (OSHA) regulations. It is the sole responsibility of the Contractor to provide safe working conditions during all phases of construction and at all times on this project.

All excess material generated by the project shall become the property of the Contractor and shall be disposed of off the project site.

The contractor shall dispose of the excess material in conformance with the NPDES permit requirements for specific setbacks for stock piles from direct conveyances to waters of the state.

The Contractor shall not backfill around mudded joints within 24 hours unless approved by the Engineer.

S-18 (2112) SUBGRADE PREPARATION

Supplement MnDOT Section 2112 with the following:

In the event that it is required to provide fill material, select granular fill conforming to MnDOT 3149.2B2 shall be used. In no case will river dredge sand be used. Class 5 Aggregate shall not be used for backfilling subgrade excavation.

All tests shall conform to MnDOT Grading and Base random method and number of tests will be determined by the City of Minneapolis Paving Engineer or Materials Engineer.

Paving Engineer

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Materials Engineer

Chris DeDene
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In the event any privately owned below grade structure within the public right of way, also known as an areaway, is uncovered during this work, then all areaway improvements, modifications, or any areaway abandonment shall conform to City of Minneapolis Ordinance 95. Additional building permits may be required due to effects on the structure of a building. The Contractor should contact the Chief Building Official for the City of Minneapolis at (612) 673-5800, for additional information on the requirements.

S-19 (2211) AGGREGATE BASE

Section 2211 is hereby supplemented to include the following:
The use of recycled materials consisting primarily of crushed concrete and bituminous will be permitted only upon written acceptance from the Paving Engineer. The Paving Engineer may require that the quality of each source be demonstrated prior to any acceptance.

The material will be required to meet all requirements of specifications 2211 and 3138.

Section 3138.2.C is modified to have a maximum bitumen content of 2.0 percent by weight.

Section 3138.2.C is amended to not allow reclaimed glass or masonry block in this material.

All concrete pavement (new, repair, patches), alleys, driveways and curb and gutter shall use as aggregate base, MnDOT Class 5 materials. The aggregate base shall be compacted as per MnDOT specifications and will have a minimum thickness of 4.0 inches.

Density tests shall conform to MnDOT Dynamic Cone Penetrometer method. All tests shall conform to MnDOT Grading and Base random method and number of tests will be determined by the Paving Engineer.

S-20 (2301) CONCRETE PAVEMENT

Supplement MnDOT Section 2301 with the following:

Chloride-containing concrete additives and admixtures are not allowed.

(2301.3.L) Pavement Thickness Requirements
If the measured thickness of the concrete work is less than that given in the plan, and the deficient thickness is one half (1/2) inch or greater, then the deficient portion of the work shall be considered defective, and shall be removed and replaced. In areas where there is deficient thickness the contractor may elect to saw cut the pavement at the closest contraction or

expansion joint for replacement. Upon the direction of the Engineer, the contractor may be required to provide dowel bars as a part of the concrete replacement work.

Alley thickness shall be 8 inches of concrete.

(2301.3.M) Curing Methods

1. Continue curing and protecting the concrete for at least 28 days. Protect the concrete from surface damage occurring from footprints, vandals, animals, debris, and the like.

2. Concreting in cold weather: During cold weather, concrete may be placed when the natural air temperature in the shade is 40 Degrees F. and rising. Concrete shall not be placed on frozen subgrade and/or base and materials containing frost, lumps or crusts of hardened materials. All concrete to be installed after October 1 will require an approved cold weather concrete plan prior to any work. This plan must be approved by the City of Minneapolis Paving Engineer or Materials Engineer.

   Assume full responsibility for the acceptable production, placement, finishing, and curing of all concrete under the conditions prevailing, regardless of the restrictions imposed. Provide any artificial lighting, rain or cold weather protection necessary at no additional cost to the City.

3. For any concrete installed after October 1, the City of Minneapolis reserves the right to require the following items:

   A. Electronic thermocouple(s) to be installed in the concrete, to record the temperature of the concrete and evaluate the possibility of any damage due to frozen concrete. The placement of the thermocouple(s) shall be at the rate of one thermocouple per 50 cubic yards of concrete and/or one thermocouple per each different type of concrete structures (sidewalk, pavement, curb and gutter, or drive approach). Placement, inspection and testing of thermocouples shall be performed by the City of Minneapolis, or by others if approved by the City of Minneapolis Paving Engineer or Materials Engineer. All costs for thermocouple work performed by the City shall be paid for prior to the issuance of the Sidewalk Construction Permit. Failure to maintain concrete temperatures above 40 degrees Fahrenheit during the initial 28 days of curing may result in a determination of failure and rejection of the work, unless other terms for the cold weather concreting plan are accepted by the City of Minneapolis Paving Engineer or Materials Engineer.

In general, the Paving Engineer will approve plans and modifications for permitted work, while the Materials Engineer will approve plans and modifications to work where the City is the Owner.

Paving Engineer

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Materials Engineer

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B. Concrete test cylinders to be cured on site, companion compressive strengths will be performed and failing compressive strengths of the test cylinder cured on site will governed for acceptance of material.

(2301.3N) Joint construction

2301.3N shall be modified to include:

1. All tooled joints shall have a depth of 1/3 the thickness of the structure.
2. All 8-inch thick pavements (alley, driveway, street pavement) have tooled joints 2-inches deep.
3. All expansion felt, including expansion felt at 30' intervals in the sidewalk area, shall be placed as shown in shown in the City Standard Plates under Standard Plate Number ROAD-2003.
4. All expansion felt shall be bituminous impregnated.
5. All joints shall be evenly spaced, or as approved by the City Engineer.

S-21 (2356) BITUMINOUS SEAL COAT

The provisions of MnDOT 2356 are supplemented with the following:

Prior to performing any seal coating operations, the Contractor shall make saw cuts as necessary to perform transverse crack control joint construction as specified in these Special Provisions.

During seal coating operations the Contractor shall prevent excess seal coat aggregates from entering storm or sanitary sewer structures in accordance with the applicable provisions of MnDOT 1717, 1803.5, and 2573. The Contractor shall contact the Maintenance Supervisor of SWS Operations Office 48 hours prior to commencing any seal coat work, the Contractor may inspect manholes and catch basins in the work area to document conditions prior to the start of seal coat operations. The contact telephone number for the Maintenance Supervisor is (612)

673-5625. The removal of any seal coat chips found in the storm or sanitary sewer systems after final sweep will be the responsibility of the Contractor. All costs associated with the control of excess aggregates shall be incidental to the seal coating as a whole and no direct compensation will be made.

The bituminous material for seal coating shall be CRS-2 asphalt emulsion.

The rate of CRS-2 application shall be designed. The emulsion application rate depends on gradation, absorption, shape, traffic volume, existing pavement condition and the residual asphalt content of binder. The CRS-2 designed rate of application shall be approved by the City of Minneapolis engineering lab.

The rate of application of seal coat chips shall be designed as well. The aggregates application rate depends on gradation, shape and specific gravity. The seal coat chips designed rate of application shall be approved by the City of Minneapolis engineering lab.

The seal coat aggregate to be used on <u>non-Parkway roadways</u> shall be a 100% crushed Class A **granite or trap rock** aggregate. Trap rock aggregate will be allowed to have the following modified FA-2 gradation:

Sieve Size	Percent Passing
6.30mm (1/4in)	100
4.75mm (#4)	0-100
2.36mm (#8)	0- 40
1.18mm (# 16)	0- 10
300um (# 50)	0-5
75um (# 200)	0-2.0

The seal coat aggregate to be used on <u>Parkways</u> shall be 3/8" seal coat chips meeting the following gradation specification:

Sieve Size	Percent Passing
12.5 mm	100
9.5 mm	95-100
4.75mm	0-30
75u	0-1.0

The accepted gradation methods used to determine the seal coat chips aggragate gradations are those described in the MnDOT Laboratory Manual.

At such time as determined by the Engineer that seal coating aggregates have properly set, the Contractor shall remove all excess aggregates from roadways, adjacent sidewalks, and property. Removal shall be accomplished by means of shoveling or sweeping, not by street washing. All costs due to maintenance of public roadways shall be incidental to the seal coating as a whole and no direct compensation will be made therefore.

The City of Minneapolis shall retain all reclaimed seal coat aggregates. Therefore, the Contractor shall be required to haul and deposit seal coat chips to a designated location within the City of Minneapolis.

The Contractor shall provide all necessary traffic control for seal coating operations as required by MnDOT 1404 and modified by these special provisions. Traffic control devices for seal coating shall include, but not be limited to, centerline markers and reflectorized barrels that clearly delineate the traffic lanes during seal coating operations and until such time as determined by the Engineer that seal coating aggregates have set sufficiently to permit painting of lane striping and pavement markings by the City of Minneapolis Traffic Department.

S-22 (2360) PLANT MIXED ASPHALT PAVEMENT (SUPERPAVE)

Section 2360.3.C.1 is hereby modified to require all cold joints (transverse and longitudinal) to be cut vertically for the full depth of the matching asphalt thickness placed previously. All longitudinal joints are to be matched with adjacent passes as much as practical and the maximum length of each adjacent pass shall not exceed 800 feet during paving. At the end of the day's paving no more than 800 feet (longitudinal) shall be created and prior to the next paving activity this longitudinal shall be cut vertically to match the next pass.

Tables 2360-22 and 2360-23 shall not apply. Any individual asphalt cores failing to meet minimum specified density of 92% will be considered failure for the entire lot and asphalt placed that day shall be removed and replaced, unless there is a negotiated agreement that is approved by the City Engineer, or their designee, and agreed to, in writing, by all involved parties to mitigate the failure to meet the density specification.

Section 2360.3.D.1.h. is hereby modified as follows:
-Mat density cores will be taken for any quantity larger than 10 tons per individual area of placement. For quantities larger than 10 tons and less than 300 tons per individual area of placement obtain a minimum of two cores as directed by the engineer. Companion cores would be in addition to the two cores taken.
-For quantities less than 10 tons per individual area, ordinary compaction rules shall apply. Advanced notice is required to be given to observe placement of these individual areas.

Pavement surface smoothness will not be evaluated on the plant mixed asphalt pavement by specification 2399. The sentence "In addition to the list the above pavement surface must meet requirements of 2399 (Pavement Surface Smoothness) requirements." is deleted from **2360.3.E Surface Requirements** of the **2360 (Plant Mixed Asphalt Pavement) Specification**. The other requirements of 2360.3.E Surface Requirements **will** apply.
The bituminous mixture designations to be used in the City of Minneapolis shall be as follows:

Commercial wearing course mixture:	SPWEB540L (Notes 1 & 2)
Residential wearing coarse mixture:	SPWEB440L (Note 2)
Non-wearing course mixture :	SPNWB430L (Note 2)

Notes
1. In no case will recycled materials be allowed in this mix.
2. In no case will asphalt shingles be allowed in the mix.

Bituminous Placement
The pavement shall be swept clean prior to placement of bituminous wear course. This work shall be considered incidental to the Contract with no direct compensation made therefore.

S-23 (2461) STRUCTURAL CONCRETE

For the purpose of these Standard Supplemental Specifications MnDOT 2461 shall govern, except with the following modifications and amendment(s):

(2461.F.2.a) The Department defines the concrete mix design requirements for Contractor Design Mixes in accordance with Table 2461-6.

Contractor grade mixes that are not certified by MnDOT are not allowed.

MnDOT 2461.3.G1 shall be deleted and replaced with the following:

D3 Notice of Inspection
Notify the City of Minneapolis or testing agency a minimum of 24 hours before beginning concrete production to allow the Engineer time to provide inspection forces needed for the work and to approve preparations for concrete placement. If the Contractor fails to provide 24 h notice, the Engineer may delay concrete placement in accordance with 1503, "Conformity with Plans and Specifications" and 1512, "Unacceptable and Unauthorized Work."

S-24 EXCAVATION AND PREPARATION OF TRENCH

Description
This work shall consist of the excavation, backfilling, and restoration of existing surface improvements for the purposes of installing new and/or relocating or adjusting existing underground utilities.

Operational Limitations and Requirements
Excavating operations shall proceed only so far in advance of pipe lying as will satisfy the needs for coordination of work and permit advance verification of unobstructed line and grade as planned. Where interference with existing structures is possible or in any way indicated, and where necessary to establish elevation or direction for connections to in-place structures, the excavating shall be done at those locations in advance of the main operation so actual conditions will be exposed in sufficient time to make adjustments without resorting to extra work or unnecessary delay.

Wherever possible, excavated materials shall be placed in areas that will not block existing vehicle and pedestrian traffic. No excavated material shall be placed in any drainage way in the City. The Contractor shall review proposed methods of operation with the Engineer prior to beginning the work. All installations shall be accomplished by open trench construction except for short tunnel sections approved by the Engineer and with the exception that boring and jacking or tunnel construction methods shall be employed where so specifically required by the Plans, Specifications, or Special Provisions.

Installation of pipe through tunnel excavations will be allowed only where the surface structure can be properly supported and the backfill restored to the satisfaction of the Engineer. The excavating operations shall be conducted so as to carefully expose all in-place underground structures without damage. Wherever the excavation extends under or approaches so close to an existing structure as to endanger it in any way, precautions and protective measures shall be taken as necessary to preserve the structure and provide temporary support. Hand methods of excavating shall be utilized to probe for and expose such critical or hazardous installations as gas pipe and power or communication cables.

The Engineer shall be notified of any need for blasting to remove materials which cannot be broken up mechanically, and there shall be no blasting operations conducted until the Engineer's approval has been secured. Blasting will be allowed only when proper precautions are taken to protect life and property, and then shall be restricted as the Engineer directs. The hours of blasting operations shall be set by the Owner. The Contractor shall assume full responsibility for any damages caused by blasting, regardless of the requirements for notification and approval. The Contractor shall secure any required permits for blasting and shall conduct blasting operations in conformance with all applicable local, state and federal laws, regulations, and ordinances.

Classification and Disposition of Materials

Excavated materials will be classified for payment only to the extent that the removal of materials classified by the Engineer as Rock will be paid for as provided in the Special Provisions or shown in the Proposal. All other materials encountered in the excavations, with the exception of items classified for payment as structure removals, will be considered as Unclassified Excavation and unless otherwise specified in the Plans, Specifications, and Special Provisions, no additional compensation shall be provided for their removal.

Unclassified materials shall include muck, rubble, wood debris, and boulder stone, masonry or concrete fragments less than one cubic yard in volume, together with other miscellaneous matter that can be removed effectively with power operated excavators without resorting to drilling and blasting.

Rock excavation shall be defined to include all hard, solid rock in ledge formation, bedded deposits and unstratified masses; all natural conglomerate deposits so firmly cemented as to present all the characteristics of solid rock; and any boulder stone, masonry or concrete fragments exceeding one cubic yard in volume. Materials such as shale, hard pan, soft or disintegrated rock which can be dislodged with a hand pick or removed with a power operated excavator will not be classified as Rock Excavation.

Excavated materials will be classified for reuse as being either Suitable or Unsuitable for backfill or other specified use, subject to selective controls. All suitable materials shall be reserved for backfill to the extent needed, and any surplus remaining shall be utilized for other construction on the project as may be specified or ordered by the Engineer. To the extent practicable, granular materials and topsoil shall be segregated from other materials during the excavating and stockpiling operations so as to permit best use of the available materials at the time of backfilling. Unless otherwise specified in the Plans, Specifications, and Special Provisions, material handling as described above shall be considered incidental with no additional compensation provided.

All excavated materials reserved for backfill or other use on the project shall be stored at locations approved by the Engineer that will cause a minimum of inconvenience to public travel, adjacent properties, and other special interests. The material shall not be deposited so close to the edges of the excavations as this would create hazardous conditions, nor shall any material be placed so as to block the access to emergency services. All materials considered unsuitable by the Engineer, for any use on the project, shall be immediately removed from the project and be disposed of as arranged for by the Contractor at no extra cost to the Contract.

Excavation Limitations and Requirements

Trench excavating shall be to a depth that will permit preparation of the foundation as specified and installation of the pipeline and appurtenances at the prescribed line and grade, except where alterations are specifically authorized. Trench widths shall be sufficient to permit the pipe to be laid and joined properly and the backfill to be placed and compacted as specified. Extra width shall be provided as necessary to permit convenient placement of sheeting and shoring and to accommodate placement of appurtenances.

Excavations shall be extended below the bottom of structure as necessary to accommodate any required Granular Foundation material. When rock or unstable foundation materials are encountered at the established grade, additional materials shall be removed as specified or ordered by the Engineer to produce an acceptable foundation. Unless otherwise indicated or directed, rock shall be removed to an elevation at least six inches below the bottom surface of the pipe barrel and below the lowest projection of joint hubs. All excavations below grade shall be to a minimum width equal to the outside pipe diameter plus two feet. Rock shall be removed to such additional horizontal dimensions as will provide a minimum clearance of six inches on all sides of appurtenant structures such as valves, housings, access structures, etc.

Where no other grade controls are indicated or established for the pipeline, the excavating and foundation preparations shall be such as to provide a minimum cover over the top of the pipe as specified. Trench widths shall allow for at least six inches of clearance on each side of the joint hubs. The maximum allowable width of the trench at the top of pipe level shall be the outside diameter of the pipe plus two feet, subject to the considerations for alternate pipe loading set forth below. The width of the trench at the ground surface shall be held to a minimum to prevent unnecessary destruction of the surface structures. Under no circumstances shall the trench with shoring be so narrow that it does not conform to OSHA Standard -29 CFR 1926.

The maximum allowable trench width at the level of the top of pipe may be exceeded only by approval of the Engineer, after consideration of pipe strength and loading relationships. Any alternate proposals made by the Contractor shall be in writing, giving the pertinent soil weight data and proposed pipe strength alternate, at least seven days prior to the desired date of decision. Approval of alternate pipe designs shall be with the understanding that there will be no extra compensation allowed for any increase in material or construction costs.

If the trench is excavated to a greater width than that authorized, the Engineer may direct the Contractor to provide a higher class of bedding and/or a higher strength pipe than that required by the Plans, Specifications, and Special Provisions in order to satisfy design requirements, without additional compensation.

Sheeting and Bracing Excavations

All excavations must comply with the requirements of OSHA Standard CFR 1926. The excavations shall be sloped, benched, sheeted, shored, or braced or any combination of these protective measures so that the excavation will meet all requirements of the applicable safety codes and regulations; comply with any specific requirements of the Contract; and prevent disturbance or settlement of adjacent surfaces, foundations, structures, utilities, and other properties. Any damage to the work under contract or to adjacent structures or property caused by settlement, water or earth pressures, slides, cave-ins, or other causes due to failure or lack of sheeting, shoring, or bracing or through negligence or fault of the Contractor in any manner shall be repaired at the Contractor's expense and without delay.

Where conditions warrant extreme care, the Plans, Specifications, and Special Provisions may require special precautions to protect life or property, or the Engineer may order the installation of sheet piling of the interlocking type or direct that other safety measures be taken as deemed necessary. Failure of the Engineer to order correction of improper or inadequate sheeting, shoring, or bracing shall not relieve the Contractor's responsibilities for protection of life, property, and the work.

The Contractor shall assume full responsibility for proper and adequate placement of sheeting, shoring, and bracing, wherever and to such depths that soil stability may dictate the need for support to prevent displacement. The Contractor shall be responsible for obtaining the services of a Professional Engineer, registered in Minnesota, to design bracing that will provide ample working space while not placing any stress or strain on the in-place structures to any extent that may cause damage.

Sheeting, shoring and bracing materials shall be removed only when and in such manner as will assure adequate protection of the in-place structures and prevent displacement of supported grounds. Sheeting and bracing shall be left in place only as required by the Plans, Specifications, and Special Provisions or ordered by the Engineer. Otherwise, sheeting and bracing may be removed as the backfilling reaches the level of respective support. Wherever

sheeting and bracing is left in place, the upper portions shall be cut and removed to an elevation of three feet or more below the established surface grade as the Engineer may direct.

All costs of furnishing, placing and removing sheeting, shoring, and bracing materials, including the value of materials left in place as required by the Contract, shall be included in the prices bid for pipe installation and will not be compensated for separately. When any sheeting, shoring, or bracing materials are left in place by written order of the Engineer, in the absence of specific requirements of the Contract to do so, payment will be made for those materials as an Extra Work item, including waste material resulting from upper cut-off requirements.

Preparation and Maintenance of Foundations

Foundation preparations shall be conducted as necessary to produce a stable foundation and provide continuous and uniform pipe bearing between bell holes. The initial excavating or backfilling operations shall produce a subgrade level slightly above finished grade as will permit hand shaping to finished grade by trimming of high spots and without the need for filling of low spots to grade. Final subgrade preparations shall be such as to produce a finished grade at the centerline of the pipe that is within 0.03 foot of a straight line between pipe joints and to provide bell hole excavation at each joint as will permit proper joining of pipe and fittings.

In excavations made below grade to remove rock or unstable materials, the backfilling to grade may be made with available suitable materials approved by the Engineer, unless placement of Granular Foundation or Bedding material is specified or is ordered by the Engineer. Placement of the backfill shall be in relatively uniform layers not exceeding 8 inches in loose thickness. Each layer of backfill shall be compacted to the density required for the restoration surfacing, by means of approved mechanical compaction equipment, as will produce uniform pipe support throughout the full pipe length and facilitate proper shaping of the pipe bed.

Where placement of foundation materials will not provide an adequate foundation for laying pipe due to the instability of the existing materials and where ordered by the Engineer, the Contractor shall place Geotextile Type I fabric on top of the unstable materials prior to placing foundation materials. Sufficient geotextile fabric shall be used to completely enclose the foundation materials and pipe.

It shall be the Contractor's responsibility to notify the Engineer of changing soil conditions which may be of poor bearing capacity and when organic soils are encountered. Where utilities are placed on unstable soils without notification of the Engineer, the Contractor shall be responsible for all repairs and correction of the installation without further compensation.

Where the foundation soil is found to consist of materials that the Engineer considers to be so unstable as to preclude removal and replacement to a reasonable depth to achieve solid support, a suitable foundation shall be constructed as the Engineer directs in the absence of special requirements in the Plans, Specifications, and Special Provisions. The Contractor may be

required to furnish and drive piling and construct concrete or timber bearing supports or other work as may be ordered by the Engineer.

Care shall be taken during final subgrade shaping to prevent any over-excavation. Should any low spots develop, they shall only be filled with approved material, which shall have optimum moisture content and be compacted thoroughly without additional compensation to the Contractor. The finished subgrade shall be maintained free of water and shall not be disturbed during pipe lowering operations except as necessary to remove pipe slings. The discharge of trench dewatering pumps shall be directed to natural drainage channels or storm water drains after being filtered to remove suspended solids in accordance with the State of Minnesota NPDES General Permit. Draining trench water into sanitary sewers or combined sewers is normally not permitted.

The Contractor shall install and operate a dewatering system of wells or points to maintain pipe trenches free of water wherever necessary or as directed by the Engineer to meet the intent of these specifications. Unless otherwise specified in the Plans, Specifications, and Special Provisions, such work shall be considered incidental.

All costs of excavating below grade and placing foundation or bedding aggregates as shown on the details for bedding shall be included in the bid prices for pipe items to the extent that the need for such work is shown on the plans or indicated in these Supplemental Specifications and the Proposal does not provide for payment under separate Contract Items. Any excavation below the grade of the bedding and any foundation or bedding aggregates required by order of the Engineer in the absence of Contract requirements will be compensated for separately.

If examination by the Engineer reveals that the need for placement of foundation aggregate was caused by the Contractor's manipulation of the soils in the presence of excessive moisture or lack of proper dewatering, the cost of the corrective measures shall be borne by the Contractor.

Non-Open Cut and Special Pipe Installation

A Jacking / Boring

The terms "auger", "boring", "jack", "jacking", and "tunneling" in the proposal, specifications, and plans refers only to non-open cut construction. The Contractor shall inspect and verify soil conditions to his own satisfaction in order to determine the type of construction to employ. During the construction, the Contractor shall be responsible for protecting all existing utilities above the pipe invert.

The minimum diameter of the casing pipe shall be four (4) inches greater than the outside diameter of the bell of the carrier pipe. For any installation beneath a railroad, the top of the casing pipe shall not be closer than the specified dimensions indicated in the permit.

If the Contractor elects to install steel casing, the minimum wall thickness shall be as specified on the Plans, in the Special Provisions, or in the applicable Permit. Where required by the Engineer, two 17-pound anode packs shall be attached to the casing for corrosion protection.

A 1-1/2 inch pipe shall be forced along the top of the casing pipe. The front end of this pipe shall be 18 inches behind the front end of the casing pipe. A mixture of water and bentonite clay shall be forced through this pipe at all times during the casing installation to fill any voids that may be present above the casing pipe. Upon completion of the casing installation, this pipe shall be slowly withdrawn while bentonite is forced through the pipe to fill any remaining voids.

The Contractor shall prevent excavated materials from flowing back into the excavation during the non-open cut construction. This shall include the use of a shield conforming to the size and shape of the casing that will prevent materials from flowing into the leading edge of the casing. The machine used shall be capable of controlling line and grade and shall conform to the size and shape of the casing pipe.

No jacking/auguring of pipe will be allowed below the water table unless the water table has been lowered sufficiently to keep the water below the pipe being installed. The use of water under pressure (jetting) or puddling will not be permitted to facilitate jacking/auguring operations.

If any installation is augured, the head shall be approved by the Engineer and the auger shall be located six (6) inches behind the lead edge of the casing or carrier pipe.

If a void develops, the jacking/auguring shall be stopped immediately and the void shall be filled by pressure grouting. The grout material shall consist of sand-cement slurry of at least two sacks of cement per cubic yard and a minimum of water to assure satisfactory placement.

Skids and blocking shall be used as necessary to install the carrier pipe to the proper line and grade inside the casing pipe. Voids between carrier and casing pipes shall be filled with sand and the casing pipe sealed at both ends with a suitable material to prevent water or debris from entering the casing pipe.

B Directional Boring

Direction boring/drilling installation shall be accomplished where required on the Plans or in the Special Provisions to minimize disturbance of existing surface improvements. The installer shall have a minimum of three years of experience in this method of construction and have installed at least 1,000 feet of 8-inch or larger diameter pipe to specified grades. The field supervisor employed by the Contractor shall have at least three years of experience, be responsible for all of the boring/drilling work and shall be at the site at all times during the boring/drilling installation.

The Contractor shall submit boring/drilling pit locations and dimensions to the Engineer before beginning construction.

The drilling equipment shall be capable of placing the pipe as shown on the plans. The installation shall be by a steerable drilling tool capable of installing continuous runs of pipe, without intermediate pits, a minimum distance of 200 feet. The guidance system shall be capable of installing pipe within 1-1/2 inch of the plan vertical dimensions and 2 inches of the plan

horizontal dimensions. The Contractor shall be required to remove and reinstall pipes which vary in depth and alignment from these tolerances.

Pull back forces shall not exceed the allowable pulling forces for the pipe being installed. Drilling fluid shall be a mixture of water and bentonite clay. Disposal of excess fluid and spoils shall be the responsibility of the Contractor

C Placement of Insulation

Two inches of polystyrene rigid insulation board with a minimum compressive strength of 60 psi and a minimum R-value of 10.0 shall be placed within the pipe encasement zone, 6 inches above the pipe. Prior to placement of the insulation, Granular Borrow (MnDOT 3149) shall be leveled and compacted until there is no further visual evidence of increased consolidation or the density of the compacted layer conforms to the density requirements specified in the Special Provisions, then leveled and lightly scarified to a depth of 1/2 inch. Borrow material placed above and below the insulation shall be free of rock or stone fragments measuring 1-1/2 inches or greater.

Insulation boards shall be placed on the scarified material with the long dimension parallel to the centerline of the pipe. Boards shall be placed in a single layer with tight joints. No continuous joints or seams shall be placed directly over the pipe. If two or more layers of insulation boards are used, each layer shall be placed to cover the joints of the layer immediately below.

The Contractor shall exercise precaution to insure that all joints between boards are tight during placement and backfilling with only extruded ends placed end to end or edge to edge.

The first layer of material placed over the insulation shall be 6 inches in depth, free of rock or stone fragments measuring 1-1/2 inches or greater. The material shall be placed in such a manner that construction equipment does not operate directly on the insulation and shall be compacted with equipment which exerts a contract pressure of less than 80 psi. The first layer shall be compacted to conform to the density requirements specified in the Special Provisions.

Pipeline Backfilling Operations

Placement and compaction of back fill soil outside of the pipe zone shall comply with all other special provisions stated in this document or MnDOT Standards. All pipeline excavations shall be backfilled to restore preexisting conditions as the minimum requirement, and fulfill all supplementary requirements indicated in the Plans, Specifications, and Special Provisions. The backfilling operations shall be started as soon as conditions will permit on each section of pipeline, so as to provide continuity in subsequent operations and restore normal public service as soon as practicable on a section-by-section basis. All operations shall be pursued diligently, with proper and adequate equipment, as will assure acceptable results.

The backfilling shall be accomplished with the use of Suitable Materials selected from the excavated materials to the extent available and practical. Should the materials available within the trench section be unsuitable or insufficient, without loading and hauling or other measures the Engineer determines to be unreasonable, the required additional materials shall be furnished from outside sources as Extra Work under MnDOT Specification 1403 in the absence of any Special Provision requirements covering additional material.

Suitable Material shall be defined as a mineral soil free of foreign materials (rubbish, debris, etc.), frozen clumps, oversize stone, rock, concrete or bituminous chunks, hazardous material and other unsuitable materials, that may damage the pipe installation, prevent thorough compaction, or increase the risks of after settlement unnecessarily. Material selection shall be such as to make the best and fullest utilization of what is available, taking into consideration particular needs of different backfill zones. Material containing stone, rock, or chunks of any sort shall only be utilized where and to the extent there will be no detrimental effects. The determination of detrimental effects is subject to the review and determination by the Engineer.

Within the pipe bedding and encasement zones described as that portion of the trench which is below an elevation one foot above the top of the pipe, the materials placed shall be limited in particle size to 1-1/2 inches maximum in the case of pipe of 12 inches in diameter or less and to 2 inches maximum in the case of larger pipe. Above these zones, the placement of material containing stones, boulders, chunks, etc. greater than 6 inches in any dimension shall not be allowed.

All flexible pipe shall be bedded in accordance with ASTM Specification D2321, "Recommended Practice for Underground Installation of Flexible Thermoplastic Sewer Pipe". This shall include placement of granular bedding and encasement materials from a point six inches below the bottom of pipe to a point twelve inches above the top of the pipe. Placement and compaction of bedding and encasement materials around the pipe shall be considered incidental to the installation of the pipe. Where existing soils do not meet the requirements of bedding and encasement materials, the Contractor shall furnish the required granular materials.

Compaction of materials placed within the pipe bedding and encasement zones shall be accomplished with portable or hand equipment methods, so as to achieve thorough consolidation under and around the pipe and avoid damage to the pipe. Above the cover zone material, the use of heavy roller type compaction equipment shall be limited to safe pipe loading.

Backfill materials shall be carefully placed in uniform loose thickness layers up to 12 inches thick spread over the full width and length of the trench section to provide simultaneous support on both sides of the pipeline. Granular backfill may be placed in 12 inch layers above an elevation one foot above the top of the pipe, and with the provision that, by authority and at the discretion of the Engineer in consideration of the demonstrated capability of special type vibrating compactors, the stated maximums may be increased.

Each layer of backfill material shall be compacted effectively, by approved mechanical or hand methods, until there is no further visual evidence of increased consolidation or the density of the compacted layer conforms to the density requirements specified in the Special Provisions. Compaction of the in-place layer shall be completed acceptably before placing material for a succeeding layer thereon. The manner of placement, compaction equipment, or procedure effectiveness shall be subject to approval of the Engineer.

All surplus or waste materials remaining after completion of the backfilling operations shall be disposed of in an approved manner within 24 hours after completing the backfill work on each particular pipeline section. Disposal at any location within the project limits shall be as specified, or as approved by the Engineer; otherwise, disposal shall be accomplished outside the project

limits by the Contractor. The backfilling and surplus or waste disposal operations shall be a part of the work required under the pipeline installation items, not as work that may be delayed until final cleanup.

Compaction of backfill within Roadbed areas shall meet the density requirements of MnDOT Specification 2105. Compaction of backfill in all other areas shall be as required in the Special Provisions.

Until expiration of the guarantee period, the Contractor shall assume full responsibility and expense for all backfill settlement and shall refill and restore the work as directed to maintain an acceptable surface condition, regardless of location. All additional materials required shall be furnished without additional cost to the Owner.

Any settlement of road surfaces that are either placed under this Contract or by others under either public or private contract; that are in excess of one inch, as measured by a ten foot straight edge; and that are within the guarantee period shall be considered failure of the mechanical compaction. The Contractor shall be required to repair such settlement including all items placed by others.

Restoration of Surface Improvements

Wherever any surface improvements such as pavement, curbing, pedestrian walks, fencing, or turf have been removed, damaged or otherwise disturbed by the Contractor's operations, they shall be repaired or replaced to the Engineer's satisfaction, as will restore the improvement in kind and structure to the preexisting condition. Each item of restoration work shall be done as soon as practicable after completion of installation and backfilling operations on each section of pipeline.

In the absence of specific payment provisions, as separate Contract Items, the restoration work shall be compensated for as part of the work required under those Contract Items which necessitated the destruction and replacement or repair, and there will be no separate payment. If separate pay items are provided for restoration work, only that portion of the repair or reconstruction which was necessitated by the Contract work will be measured for payment. Any improvements removed or damaged unnecessarily or undermined shall be replaced or repaired at the Contractor's expense

Turf Restoration

Turf restoration shall be accomplished by sod placement except where seeding is specifically allowed or required.

Topsoil shall be placed to a minimum depth of four inches under all sod and in all areas seeded. The topsoil material used shall be light friable loam containing a liberal amount of humus and shall be free of heavy clay, coarse sand, stones, plants, roots, sticks and other foreign matter. Topsoil meeting these requirements shall be selected from the excavated materials to the extent available and needed.

Wherever turf is placed directly adjacent to a sidewalk, the final, installed height of the turf must be lower than the sidewalk to ensure proper drainage of water off of the sidewalk.

All turf establishment work shall be done in substantial compliance with the provisions of MnDOT Specification 2575 using seed mixtures as specified in the Special Provisions or Proposal

Pavement Restoration

The in-place pavement structure (including base aggregates) shall be restored in kind and depth as previously existed, using base aggregates salvaged from the excavated materials to the extent available and needed, and with new materials being provided for reconstruction of the concrete or bituminous surface courses.

During restoration if questions arise due to inconsistent existing pavement, contact the City of Minneapolis engineering laboratory prior placement at 612-673-2368.

If, through no fault of the Contractor in failing to reserve sufficient aggregate materials from the excavations, there should be insufficient quantity of suitable aggregate to reconstruct the pavement base courses, the additional materials required will be furnished by the Contractor as an Extra Work Item from outside sources. Placement of any additional aggregate materials delivered to the site by the Owner or of any additional materials furnished by the Contractor shall be an incidental expense, as will also be the disposal of any excess materials resulting there from, unless special payment provisions are otherwise agreed upon.

Reconstruction of aggregate base courses and concrete or bituminous surface courses shall be in substantial compliance with all applicable MnDOT Specifications pertaining to the item being restored. The materials used shall be comparable to those used in the in-place structure, and the workmanship and finished quality shall be equal to that of new construction to the fullest extent obtainable in consideration of operational restrictions.

Existing concrete and bituminous surfaces at the trench wall shall be sawed or cut with a cutting wheel to form a neat edge in a straight line before surfaces are to be restored. Sawing or cutting may be accomplished as a part of the removal or prior to restoration at the option of the Contractor. However, all surface edges will be inspected prior to restoration.

Pavement restoration shall also comply with other specifications in this document.

Restoration of Miscellaneous Items

Wherever any curbing, curb and gutter sections, pedestrian walks, fencing, driveway surfacing, or other improvements are removed or in any way damaged or undermined, they shall be restored to original condition by repair or replacement as the Engineer considers necessary. Replacement of old materials will be acceptable only to the extent that existing quality can be fully achieved, such as in the case of fencing. Otherwise new materials shall be provided and placed as the Engineer directs. Workmanship and finished quality shall be equal to that of new construction, where new materials are used, to the extent obtainable in consideration of operational restrictions.

A proper foundation shall be prepared before reconstructing concrete or bituminous improvements. Unless otherwise directed, granular material shall be placed to a depth of at least four inches under all concrete and bituminous items. No direct compensation will be made for furnishing and placing this material even though such course was not part of the original construction.

Maintenance and Final Cleanup

All subgrade surfaces shall be maintained acceptably until the start of surfacing construction or restoration work, and until the work has been finally accepted. Additional materials shall be provided and placed as needed to compensate for trench settlement and to serve as temporary construction pending completion of the final surface improvements.

Final disposal of debris, waste materials, and other remains or consequences of construction, shall be accomplished intermittently as new construction items are completed and shall not be left to await final completion of all work. Cleanup operations shall be considered as being a part of the work covered under the Contract Items involved and only that work which cannot be accomplished at any early time shall be considered as final cleanup work not attributable to a specific Contract Item.

If disposal operations and other cleanup work are not conducted properly as the construction progresses, the Engineer may withhold partial payments until such work is satisfactorily pursued or he may deduct the estimated cost of its performance from the partial estimate value.

Maintenance of sodded and seeded areas shall include adequate watering for plant growth and the replacement of any dead or damaged sod as may be required for acceptance of the work. Corrective action shall be required in accordance with Table 2575-3.

S-25 (2502) SUBSURFACE DRAINS

The work consists of providing all materials, equipment, and labor required for the installation of perforated and solid-wall subsurface drains using plant-fabricated pipe and appurtenant materials.

2502.2 Materials

The materials used in construction of the subsurface drains must be in compliance with the provisions in MnDOT Standard Specification 2502, according to the details in the Plans and with the following.

Fine Filter Material – Fine Filter Aggregate must meet the requirements of MnDOT 3149.2J.2, with the additional requirement that not more than 35 percent shall pass the No. 10 sieve and not more than five percent shall pass the No. 40 sieve.

Perforated Drains - All perforated PE pipe drain specified in the Plans will be Corrugated Polyethylene Drainage Tubing (PE) and perforations shall be uniform slots, not drilled holes. The pipe and all fittings must meet the requirements of MnDOT Standard Specification 3278.

Clean Outs and Inspection Risers – The pipe used to fabricate clean outs and inspection risers must conform to MnDOT Standard Specification 3247. The ductile iron cover must conform to MnDOT Standard Specification 3324.

2502.3 Construction Requirements

A. Subsurface Drains – Construction of the subsurface drains must be in accordance with MnDOT Standard Specification 2502 and according to the details in the Plans. This includes, but is not limited to, the pipes, filter material, fittings, couplings, and clean outs.

The CONTRACTOR must provide record drawings with coordinates and elevations of the subsurface drainage system after installation in accordance with the SWS Record Drawing Standards approved by the Surface Waters and Sewers Division of Public Works.

B. Fine Filter Material - Prevent mixing of dissimilar materials during unloading, stockpiling, or removal from stockpile.

The Fine Filter aggregate must be placed in a manner that constructs a continuous filter for the engineered soil with no gaps or mixing of soils.

The Fine Filter aggregate must be inspected and approved by the ENGINEER prior to covering. If the ENGINEER deems that the Fine Filter aggregate has been contaminated, the CONTRACTOR will remove the contaminated material and replace with clean aggregate to the ENGINEER'S satisfaction at the CONTRACTOR'S expense.

The CONTRACTOR shall construct all Fine Filter, unless otherwise noted, to the correct position based on the line and grade information provided by the CITY. Additionally, the CONTRACTOR must construct the Fine Filter aggregate to the lines, grades and thickness shown on the plans. The allowable tolerances are:

0.5 feet horizontal, 0.1 feet vertical

S-26 (2503) PIPE SEWERS

For the purpose of these Standard Supplemental Specifications MnDOT 2503 shall govern, except with the following modifications and amendment(s):

(2503.1) Description

Use of the term "Plans, Specifications, and Special Provisions" within this specification shall be construed to mean those documents which compliment, modify, or clarify these specifications and are accepted as an enforceable component of the Contract or Contract Documents. All references to MnDOT Specifications shall mean the latest published edition of the Minnesota Department of Transportation Standard Specifications for Construction as modified by any MnDOT Supplemental Specifications issued before the date of advertisement for bids. All references to other Specifications of AASHTO, ASTM, ANSI, AWWA, etc. shall mean the latest published edition available on the date of advertisement for bids.

(2503.2) Materials

A. General

All materials required for this work shall be new material conforming to requirements of the referenced specifications for the class, kind, type, size, grade, and other details indicated in the Contract Documents. Unless otherwise indicated, all required materials shall be furnished by the

Contractor. If any options are provided for, as to type, grade, or design of the material, the choice shall be limited as may be stipulated in the Contract Documents.

All manufactured products shall conform in detail to such standard design drawings as may be referenced or furnished in the Plans. Otherwise, the Owner may require advance approval of material suppliers, product design, or other unspecified details as it deems desirable for maintaining adopted standards.

At the request of the Engineer, the Contractor shall submit in writing a list of materials and suppliers for approval. Suppliers shall submit a Certificate of Compliance that the materials furnished have been tested and are in compliance with the specifications.

All pipe furnished for main sewer and service line installations shall be of the type, kind, size, and class indicated for each particular line segment as shown in the Plans and designated in the Contract Items. Wherever connection of dissimilar materials or designs is required, the method of joining and any special fittings employed shall be products specifically manufactured for this purpose and subject to approval by the Engineer.

Any pipe connections without manufactured bell-and-spigot ends must use rubber couplings with a .012 Thick, 300 Series Stainless Steel Shear Ring as well as a concrete collar with a four (4”) inch minimum thickness around and overlapping the entire coupler and shear ring by four (4”) inches on either side, unless otherwise approved in writing by Engineer.

B. Vitrified Clay Pipe and Fittings

Vitrified clay extra strength pipe and fittings shall conform to the requirements of ASTM C-700 for the size and type and class specified, subject to the following supplementary provisions:

Unless otherwise specified, the pipe and fittings shall be non-perforated, full circular type, either glazed or unglazed.

All pipe and fittings manufactured with bell-and-spigot ends shall be furnished with factory fabricated compression joints conforming to the requirements of ASTM C-425.

All clay pipe fittings (wyes, tees, bends, plugs, etc.) shall be of the same pipe class and joint design as the pipe to which they are to be attached.

C. Ductile Iron Pipe and Fittings

The pipe furnished shall be Ductile Iron pipe and fittings furnished shall be of the Ductile Iron type as specified for each particular use of installation. Gray Iron may not be substituted for Ductile Iron unless specifically authorized in the Special Provisions.

Ductile iron pipe shall conform to the requirements of AWWA C115 or C151 for water and thickness design shall conform to AWWA C150. In addition, the pipe shall comply with the following supplementary provisions:

Fittings shall conform to the requirements of AWWA C110 OR 153 (Gray Iron and Ductile Iron Fittings or Ductile Iron Compact Fittings) for the joint type specified.

Unless otherwise specified, all pipe and fittings shall be furnished with cement mortar lining meeting the requirements of AWWA C104 for standard thickness lining. All exterior surfaces of the pipe and fittings shall have an asphaltic coating at least one mil thick, or an approved equivalent. Spotty or thin seal coating, or poor coating adhesion, shall be cause for rejection.

Rubber gasket joints for Ductile Iron Pressure Pipe and fittings shall conform to AWWA C111.

Conductivity, when required by the Special Provisions, shall be maintained through pipe and fittings with an external copper jumper wire or specialty gaskets which are capable of meeting conductive requirements. Wedge type connectors will not be allowed.

D. Reinforced Concrete Pipe and Fittings

Reinforced concrete pipe, fittings and specials shall conform to the requirements of ASTM C-76 (Reinforced Concrete Pipe) with rubber O-ring or profile joints for the type, size, and strength class specified, subject to the following supplementary provisions:

All branch fittings such as tees, wyes, etc. shall be cast as integral parts of the pipe. All fittings and specials shall be of the same strength class as the pipe to which they are attached.

Joints shall meet the requirements of ASTM C-361 and ASTM C443.

Lift holes will not be permitted unless approved by the Engineer. If lift holes are permitted, then all lift holes shall be plugged and made water tight from the exterior prior to placement of any backfill. The lift hole plug shall be finished smooth to the interior of the pipe.

E. Corrugated Steel Pipe and Fittings

Corrugated steel pipe and fittings are not acceptable for use.

F. Polyvinyl Chloride Pipe and Fittings

Polyvinyl chloride pipe and fittings shall be used for sewers and drains subject to the approval of SWS Operations. Smooth walled polyvinyl chloride pipe and fittings shall conform to the requirements of ASTM D-3034 and ASTM F-679 for the size, standard dimension ratio (SDR), and strength requirements indicated on the Plans, Specifications, and Special Provisions. The grade used shall be resistant to aggressive soils or corrosive substances in accordance with the requirements of ASTM D-543.

Unless otherwise specified, all pipe and fittings shall be a minimum thickness of SDR-26 and connections shall be push-on with elastomeric gasket joints which are bonded to the inner wall of the gasket recess of the bell socket meeting the requirements of ASTM D-3212.
Sewer service pipes less than 10” diameter shall be Schedule 40 or greater with solvent cement joints and shall conform to the requirements of ASTMD1785 and ASTM D2665.

Corrugated polyvinyl chloride pipe and fittings shall be used for sewers and drains subject to the approval of SWS Operations. Corrugated polyvinyl chloride pipe and fittings with smooth

interior shall conform to the requirements of ASTM F-949 for the size and wall thickness indicated on the Plans, Specifications, and Special Provisions. Unless otherwise specified, all pipe and fittings shall be push-on with snug fit elastomeric joints meeting tightness requirements of ASTM D-3212 and ASTM F-477.

G. Cast Iron Soil Pipe
Cast Iron Soil Pipe is not acceptable for use.

H. Acrylonitrile-Butadiene-Styrene Pipe
Acrylonitrile-Butadiene-Styrene pipe and fittings are not acceptable for use.

I. Dual-Wall Corrugated Polyethylene Pipe
Dual-Wall Corrugated Polyethylene Pipe, where permitted in the plans shall conform to the requirements of AASHTO M-294 and Design 18 of the AASHTO Standard Specifications for Highway Bridges for storm sewer pipe sizes 12-inch through 36-inch. Joints shall be bell and spigot push-on type, soil-tight and water-tight joints in accordance with ASTM D3212 and ASTM F477. Pipe manufacture, water-tight joint testing, and installation shall conform to current MnDOT requirements and/or as indicated in the Plans, Specifications, and Special Provisions.

J. Corrugated Aluminum Pipe
Corrugate Aluminum pipe is not acceptable for use.

K. Corrugated Aluminized Steel
Corrugated aluminized steel pipe is not acceptable for use.

L. Polymeric Coated Corrugated Steel
Polymeric Coated Corrugated Steel is not acceptable for use.

M. Tracer Wire for Non-conductive Pipe
Tracer wire shall be installed along the length of all non-conductive mainline pipe, laterals, and services with vertical riser to the surface, at manholes, catch basins, stubs, laterals, services, and/or utility location boxes as required by the Special Provisions or the SWS Operations Engineer.

(2503.3) Construction Requirements
A. Inspection and Handling
Proper and adequate implements, tools, and facilities satisfactory to the Engineer shall be provided and used by the Contractor for the safe and convenient prosecution of the work. During the process of unloading, all pipe and accessories shall be inspected by the Contractor for damage. The Contractor shall notify the Engineer of all material found to have cracks, flaws or other defects. The Engineer will inspect the damaged materials and have the right to reject any materials found to be unsatisfactory. The Contractor shall promptly remove all rejected material from the site, and replace all rejected material at no additional expense to the Owner. All materials shall be handled carefully, as will prevent damage to protective coatings, linings, and joint fillings; preclude contamination of interior areas; and avoid jolting contact, dropping, or dumping.

All work and materials are subject to tests by the Owner at such frequency as may be determined by the Engineer.

While suspended and before being lowered into laying position, each pipe section and appurtenant unit shall be inspected by the Contractor to detect damage or unsound conditions that may need corrective action or be cause for rejection. The Contractor shall inform the Engineer of any defects discovered and the Engineer will prescribe the required corrective actions or order rejection.

Immediately before placement, the joint surfaces of each pipe section and fitting shall be inspected for the presence of foreign matter, coating blisters, rough edges or projections, and any imperfections so detected shall be corrected by cleaning, trimming, or repair as needed.

B. Pipe Laying Operations

All foreign matter or dirt shall be removed from the inside of the pipe and fittings before they are lowered into position in the trench and they shall be kept clean by approved means during and after laying. The sewer materials shall be carefully lowered into laying position by the use of suitable restraining devices. Under no circumstances shall the pipe be dropped into the trench.

At the time of pipe placement, the bedding conditions shall be such as to provide uniform and continuous support for the pipe between bell holes. Bell holes shall be excavated as necessary to make the joint connections, but they shall be no larger than would be adequate to support the pipe throughout its length. No pipe material shall be laid in water or when the trench or bedding conditions are otherwise unsuitable or improper.

When placement or handling precautions prove inadequate, in the Engineer's opinion, the Contractor shall provide and install suitable plugs or caps effectively, closing the open ends of each pipe section, before the pipe is lowered into laying position. The pipe ends shall remain so covered until removal is necessary for connection of an adjoining unit.

Unless otherwise permitted by the Engineer, bell and spigot pipe shall be laid with the bell ends facing upgrade and the laying shall start on the downgrade end and precede upgrade. As each length of bell and spigot pipe is placed in laying position, the spigot end shall be centered in the bell and the pipe forced home and brought to correct line and grade. The pipe shall be secured in place with approved backfill material, which shall be thoroughly compacted by tamping around the pipe to a height of at least 12 inches above the top with hand operated mechanical tamping devices or by hand. The joint areas shall remain exposed and precautions shall be taken to prevent the soil from entering the joint space, until the joint seal is affected. Backfill in the bell area shall be left loose.

Connection of pipe to existing lines or previously constructed manholes or catch basins shall be accomplished as shown in the Plans or as otherwise approved by the Engineer. Where necessary to make satisfactory closure or produce the required curvature, grade or alignment deflections at joints shall not exceed that which will assure tight joints and comply with any limitations recommended by the pipe manufacturer.

Entrance of foreign matter into pipeline openings shall be prevented at all times to the extent that suitable plugs or covering can be kept in place over the openings without interfering with the installation operations.

Installation of thermoplastic pipe shall conform to ASTM D-2321.

Installation of vitrified clay pipe shall conform to ASTM C12.

Installation of ductile iron pipe shall conform to AWWA C600.

C. Connection and Assembly of Joints

All pipe and fitting joints shall fit tightly and be fully closed. Spigot ends shall be marked as necessary to indicate the point of complete closure. All joints shall be soil tight and water tight.

D. Connection of All Pipes

All new or existing structures are required to be core drilled when connecting all sewer pipe. The structures to which these connections are made include but are not limited to mainline pipe, manholes, catch basins, box culverts, and grit chambers. New structures may also have a precast connection point manufactured by the vendor. A private connections being made to either the sanitary or storm sewer system are required to be core drilled. A manufactured wye used on main line pipe or a connection precast into the structure can be used in lieu of core drilling as noted below in Section G. Other methods such as by hand sawing or blunt force shall not be allowed in the creation of a connection point. These cored connections shall be inspected by Public Works staff prior to backfilling operations. New manholes to be placed at the connection point of the main shall be submitted to the Surface Water & Sewers Engineer for review and approval prior to the start of construction.

E. Bulkheading Open Pipe Ends

All pipe and fitting ends, left open for future connection, shall be bulkheaded by approved methods prior to backfilling. Unless otherwise specified or approved, all openings of 24 inches in diameter or less shall be closed off with prefabricated plugs or caps and all openings larger than 24 inches in diameter shall be closed off with masonry bulkheads.

Prefabricated plugs and caps shall be of the same material as the pipe material, or an approved alternate material, and they shall be installed with watertight seal as required for the pipeline joints. Masonry bulkheads shall be constructed with clay or concrete brick to a wall thickness of eight inches.

Bulkheads installed for temporary service during construction may be constructed with two- inch timber planking securely fastened together and adequately braced, as an alternate to the masonry construction.

F. Appurtenance Installations

Appurtenance items such as aprons, trash guards, gates and castings shall be installed where and as required by the Plans and in accordance with such standard detail drawings or supplementary requirements as may be specified.

Sewer aprons shall be subject to all applicable requirements for installation of pipe. All aprons and outfall end sections shall have the last three sections tied. Two tie bolt fasteners shall be placed in each of the last three joints, one on each side of top center at the 60 degree point (from vertical). Tie bolt diameter shall be: 5/8 inch for 12" to and including 27" pipe; 3/4 inch for 30" to and including 54" pipe; and 1" for 60" and larger pipe. The tie bolts shall be of a design approved by the Engineer.

G. Sewer Service Installations

Main sewer service connections and building service sewer pipe shall be installed as provided for in the Contract and as may be directed by the Engineer. The sewer service connections and pipe lines shall be installed in conformance with all applicable requirements of the main sewer installation and as more specifically provided for herein.

The Engineer, with the assistance of the Contractor, shall keep accurate records of all service installations as to type, location, elevation, point of connection and termination, etc. This service record shall be maintained by the Contractor and approved by the Engineer. The service installations shall not be backfilled until all required information has been obtained and recorded, and all necessary City inspections have been completed. A copy of the service record shall be given to the City at the time of the inspection.

The main sewer service connection shall consist of installing a Branch Tee or Wye section in the main sewer line at designated locations or providing a Saddle Tee in a pipe cutout where and as permitted or required in lieu of the built-in fitting. Orientation of service connection fitting shall be as shown in the standard drawings unless otherwise directed by the Engineer.

The standard and minimum grades shall be a uniform rise of one inch in four feet for sanitary service lines and one inch in eight feet for storm service lines. These minimum grades may be reduced subject to the approval of SWS Operations.

Building service pipe lines shall generally be kept as deep as required to serve the building elevation and maintain the specified minimum pipe grades. Pipe bends shall be provided as necessary to bring the service lines to proper location and grade. Pipe bends in the right of way shall not exceed 22-1/2 degrees without approval of the Engineer.

Unless otherwise indicated, service pipe installation shall terminate at property line or as designated on the Plans, with a gasket plug placed in the end.

Wherever service line connections to the main sewer are permitted or required to be made in the absence of an existing built-in Tee or Wye fitting, the connection shall be made by using an approved type of Saddle Tee, Tee Insert, or Boot fitting subject to approval of SWS Operations. The pipe cut-out shall be made with an approved type coring machine or by other approved methods producing a uniform, smooth circular cut-out as required for proper fit. The cut-out discs shall be retrieved and shall not be allowed to remain within the main sewer pipe. The Saddle Tee shall be securely fastened to the main sewer pipe by means stainless steel clamps. The entire connection fitting shall be encased in concrete to a minimum thickness of six inches

and as may be shown in the standard drawings. No part of the saddle may protrude into the main sewer.

Wherever service line connections to the main sewer are permitted or required to be made in the absence of an existing built-in Branch Tee or Wye fitting, the connection shall be made by removing a section of the main sewer pipe and replacing it with the required Branch Tee or Wye section subject to the approval of the Engineer. The Branch Tee or Wye fitting shall be of the same material and thickness as the pipe being connected to and connected by means of an approved sleeve coupling.

Sanitary sewer service lines shall not be connected to a manhole at an elevation more than 24 inches above the crown of the outgoing sewer.

All pipe and fitting openings at temporary terminal points shall be fitted with suitable plugs or shall be bulk headed as required for the main sewer pipe.

H. Abandonment and Reconnecting Existing Facilities

All sanitary and storm sewer lines abandoned as part of a project within the City right-of-way are to be completely removed by the Contractor. Bulkheads shall be installed at both the inlet and outlet of the pipe to be removed, at the correlating manholes.
If approved by the Engineer in lieu of removals, pipes must be completely filled with a cement slurry material approved by the Engineer. Before placement of the cement slurry, the inlet and outlet of the line to be abandoned shall have bulkheads installed.

I. Sanitary Sewer Leakage Testing
All sanitary sewer lines, including service connections, shall be substantially watertight and shall be tested for excessive leakage upon completion and before connections are made to the service by Others. Each test section of the sewer shall be subjected to exfiltration testing, either by hydrostatic or air test method as described below and at the Contractor's option. The requirements set forth for maximum leakage shall be met as a condition for acceptance of the sewer section represented by the test.

If the ground water level is greater than three feet above the invert elevation of the upper manhole and the Engineer so approves, infiltration testing may be allowed in lieu of the exfiltration testing, in which case the allowable leakage shall be the same as would be allowed for the Hydrostatic Test.

All leakage testing shall be performed by the Contractor without any direct compensation being made, and the Contractor shall furnish all necessary equipment and materials, including plugs and standpipes as required.

J. Air Test Method
The pipeline shall be sealed with plug whose sealing length is greater than the diameter of the pipe and constructed in such a nature that it will not require external blocking or bracing and maintain a seal against the line's test pressure.

All wyes, tees, outlets or ends of lateral streets shall be suitably capped and braced to withstand the internal pressures. Such caps or plugs shall be easily removable.

One plug shall be tapped for the air supply hose and the return air pressure hose. The air supply hose, connected from the compressor to the plug shall be a throttling valve, bleeding valve and shut off valve for control. The air pressure tap shall have a sensitive pressure gauge, 0 to 10 psi range, protected by a gauge cock and a pressure relief valve set at 10 psi.

In performing the test, air is added slowly to the pipeline until pressure inside the pipeline reaches 4.0 psi. If air is added too rapidly, the test accuracy will decrease because a change in temperature also has an effect on the change in pressure. When the air pressure inside the pipeline reaches 4.0 psig above external hydrostatic pressure, the supply air is stopped. A minimum two-minute time interval is allowed for the temperature difference to stabilize before the actual test is performed. If the air pressure drops below 3.5 psig during this time interval, more air will be supplied to the pipeline and throttled to maintain a pressure between 3.5 psig and 4.0 psig for a minimum of two minutes after which time the supply air will be shut off.

The portion of line being tested shall be accepted if the portion under test does not lose air at a rate greater than 0.0015 cfm per square foot (for PVC) or 0.003 cfm per square foot (for RCP) per internal pipe end area at an average pressure of 3.0 psig greater than any back pressure exerted by groundwater that may be over the pipe at the time of test.

The test shall be accomplished by determining the time in minutes for the pressure to decrease from 3.5 psig to 3.0 psig greater than the average groundwater that may be over the pipe for PVC and RCP pipe. Test times are for a 3.5 to 2.5 psi pressure drop for VCP. Testing for VCP shall be in accordance with ASTM C828.

That time shall not be less than the time shown on the given diameter in the following table:

Pipe Diameter in Inches	**Minutes for PVC**	**Minutes for RCP**	**Minutes for VCP**
4	1.9	1.0	0.3
6	2.8	1.4	0.7
8	3.8	1.9	1.2
10	4.7	2.4	1.5
12	5.7	2.9	1.8
15	7.1	3.4	2.1
18	8.5	4.3	2.4
21	9.9	5.0	3.0
24	11.3	5.7	3.6

If the pipeline fails to meet the requirements of the test, the Contractor shall, at their own expense, determine the source of leakage and then repair or replace all defective material and/or workmanship.

In determining the pressure greater than the average groundwater, the groundwater height in feet above the pipeline must be measured.

When the water elevation has been established, the height in feet above the pipeline shall be divided by 2.31 and that pressure added to gauge pressure of test.

A table for converting water height to gauge pressure is as follows:

Groundwater Level over Top of Pipeline	Added Pressure to be Applied to Gauge Pressure Readings
1 foot	0.43 psig
2 feet	0.86 psig
3 feet	1.29 psig
4 feet	1.72 psig
5 feet	2.16 psig
6 feet	2.59 psig
7 feet	3.01 psig
8 feet	3.44 psig
9 feet	3.87 psig
10 feet	4.30 psig

K. Hydrostatic Test Method

After bulk heading the test section, the pipe shall be subjected to a hydrostatic pressure produced by a head of water at a depth of three feet above the invert elevation of the sewer at the manhole of the test section. In areas where ground water exists, this head of water shall be three feet above the existing water table.

The water head shall be maintained for a period of one hour during which time it will be presumed that full absorption of the pipe body has taken place, and thereafter for an extended period of one hour the water head shall be maintained as the test period. During the one hour test period, the measured water loss within the test section, including service stubs, shall not exceed the Maximum Allowable Loss (in Gallons Per Hour per 100 Feet of Pipe) given below for the applicable Main Sewer Diameter.

Main Sewer Diameter (In Inches)	Maximum Allowable Loss (In Gallons per Hour Per 100 Feet)
6	0.5
8	0.6
10	0.8
12	1.0
15	1.2
18	1.4
21	1.7
24 & Larger	1.9

*Based on 100 Gallons per Day per Pipe Diameter Inch per Mile

If measurements indicate exfiltration within a test action section is not greater than the allowable maximum, the section will be accepted as passing the test.

L. Test Failure and Remedy

In the event of test failure on any test section, testing shall be continued until all leakage has been detected and corrected to meet the requirements. All repair work shall be subject to approval of Maintenance Supervisor of SWS Operations at (612) 673-5625. Introduction of sealant substances by means of the test water will not be permitted.

Unsatisfactory repairs or test results may result in an order to remove and replace pipe as the Engineer considers necessary for test conformance. All repair and replacement work shall be at the Contractor's expense.

M. Deflection Test

Deflection tests shall be performed on all plastic gravity sewer pipes. The test shall be conducted after the sewer trench has been backfilled to the desired finished grade and has been in place for 30 days.

The deflection test shall be performed by pulling a rigid ball or nine-point mandrel (MnDOT Technical Memorandum 98-24-B-01 or latest revision) through the pipe without the aid of mechanical pulling devices. The ball or mandrel shall have a minimum diameter equal to 95% of the actual inside diameter of the pipe. The maximum allowable deflection shall not exceed five percent of the pipe's internal diameter. The line will be considered acceptable if the mandrel can progress through the line without binding. The time of the test, method of testing, and the equipment to be used for the test shall be subject to the approval of the Engineer.

All testing shall be performed by the Contractor at his expense without any direct compensation being made therefore, and he shall furnish all necessary equipment and materials required.

N. Test Failure and Remedy

In the event of test failure on any test section, the section shall be replaced, with all repair work subject to approval of the Maintenance Supervisor of SWS Operations at (612) 673-5625. The replaced section shall be retested for leakage and deflection in conformance with the specifications contained herein. All repairs, replacement, and retesting shall be at the Contractor's expense.

O. Televising

If visual inspection, leakage testing, or deflection testing indicate the sewer has not been constructed to specification, sewer line televising may be required by the Engineer. No additional compensation will be made by the City for sewer line televising that is required due to unsatisfactory inspection or test results.

P. Concrete and Masonry work

All masonry mortar and concrete shall be mechanically mixed for the length of time recommended by the manufacture. Mortar or concrete shall not be mixed by hand unless approved on a case by case basis by the Engineer.

All newly placed concrete and masonry shall be protected against freezing to allow for proper cure. In addition, any concrete or masonry installed after October 1st, and before April 15th will require an approved cold-weather concrete/masonry plan prior to any work starting. This plan must be approved by the Engineer.

(2503.5) Basis of Payment

The contract unit price for constructing and reconstructing Drainage Structures and Sewer Pipe of each size, type, kind, and strength class include the costs of excavation, preparation of trench, providing, and installing the pipe complete-in-place as required by the contract.

S-27 (2506) MANHOLES AND CATCH BASINS

For the purpose of these Standard Supplemental Specifications MnDOT 2506 shall govern, except with the following modifications and amendment(s):

(2506.2) Materials

Unless otherwise specified or approved, manholes and catch basins shall be constructed on a precast or cast-in-place concrete base and the barrel riser sections, cone section and top adjusting rings shall all be of precast concrete. All units shall be properly fitted and sealed to form a completely watertight structure.

Shallow structures may require that the structure be precast with an over depth and the over depth sump filled in with cement grout to satisfy this requirement. This over depth and grout shall be considered incidental.

(2506.3) Construction Requirement

A. General

Steps shall not be provided in any City drainage structure.

Connections made to manholes with sewer main require waterproof connections. For precast sections that are monolithic, a waterproof boot shall be used to provide such connection. As shown on the plans or directed by the Engineer, all other connections made to manholes or catch basins that are constructed with sewer brick or block require the use of a rubber water-stop that shall be placed on the pipe at the area where the constructed connection is made.

Inlet and outlet pipes shall extend through the walls of the structure being connected to and shall be trimmed flush with the inside wall, or as otherwise directed by the engineer.

The shaped concrete fill invert for all manhole types shall be a Power Flow according to Public Works Standard Plates and extend up to two thirds of the diameter of the connecting pipe.

All sanitary and storm manholes to be abandoned are to be completely removed by the Contractor. In lieu of completely removing the structure, the Contractor may abandon the

structure in place if approved by the Engineer. Abandonment of a manhole includes installing bulkheads in all inlet and outlet pipes in the structure by previously described methods. In addition, the top five (5) feet of the structure from finished grade must be removed. Any part of the structure that remains below the top five (5) feet must be filled with an approved material and compacted to meet density requirements of MnDOT Specification 2105.

If the build height of a CB structure is (48) inches or greater from the invert of the outgoing pipe (or bottom of the sump) to the top of the CB grate, a (48) inch diameter or larger riser section shall be used.

B. Cast-in-Place Concrete

Concrete for cast-in-place masonry construction shall be produced and furnished in accordance with the requirements of MnDOT Specification 2461 for the mix designation indicated in the Plans. The requirements for Grade B concrete shall be met where a higher grade is not specified. Type 3 (air-entrained) concrete shall be furnished and used in all structures having weather exposure.

Concrete cast-in-place base shall be poured on undisturbed or firmly compacted foundation material which shall be trimmed to proper elevation. The concrete base under an outside drop connection shall be monolithic with the manhole base.

C. Sectional Concrete

Precast concrete riser sections and appurtenant units (grade rings, top and base slabs, special sections, etc.) used in the construction of manhole and catch basin structures shall conform with the requirements of ASTM C-478, Minneapolis Public Works Standard Plates, MnDOT 2506 and the following supplementary provisions:

(1) Joints of manhole riser sections shall be tongue and groove and gasketed in accordance with ASTM C443.
(2) A Certificate of Compliance shall be furnished with each shipment of precast manhole and catch basin sections stating that the materials furnished have been tested and are in compliance with the specification requirements.
(3) Only keyed lift holes will be permitted in precast manholes.

D. Castings

Manhole castings shall be removed from structures prior to the full depth bituminous paving operation and the structure openings covered with rigid steel plates. Before the wearing course is placed, the castings shall be set in mortar to the final road elevation. Asphalt pavement removed for the manhole adjustment shall be replaced in kind. The cost for the replaced asphalt material shall be incidental to the Contract with no direct compensation made therefore.

E. Adjusting Frame or Ring Casting

Minimum thickness of each adjusting ring shall be (2) inches.

A maximum of three (3) and a minimum of one (1) concrete adjusting ring is required. All rings shall have a minimum ½ inch of an approved mortar placed in between the casting, the adjusting ring(s) and the top of the structure. No dry stacking shall be permitted.

A four (4") inch thick concrete encasement shall be placed around the outside of the manhole or catch basin adjusting rings as detailed in current Public Works Standard Plates. This encasement shall be placed at the time of final casting placement and shall be incidental for which no payment will be made.

The shaped concrete fill invert for all manhole types shall be a Power Flow according to Public Works Standard Plates and extend up to two thirds of the diameter of the connecting pipe.

Inlet and outlet pipes shall extend through the walls of the structure being connected to and shall be trimmed flush with the inside wall, or as otherwise directed. Masonry blocks shall not be set with a joint width less than 3/8 inch to assure that vertical joints are completely filled with mortar.

Segmental concrete masonry units (block, brick, adjusting rings) used in the construction of the catch basins, manholes, and other drainage structures shall conform to ASTM C139, except that the cement used shall be Type II (moderate sulfate resistant), the compressive strength (average of three units) shall be 5,000 psi with the minimum of any one block being 4,500 psi, and the maximum absorption (average three units) shall be 5.5% by weight with the maximum of any one block being 6.0% by weight. Class C fly ash or other approved pozzolan shall be substituted for 15% on a pound for pound basis by weight of the designed Portland Cement. In lieu of the Type II cement with 15% Type C fly ash, Type 1.P cement may be used.

Concrete for cast-in-place masonry construction shall be produced and furnished in accordance with the requirements of MnDOT Specification 2461 for the mix designation indicated in the Plans. The requirements for Grade B concrete shall be met where a higher grade is not specified. Type 3 (air-entrained) concrete shall be furnished and used in all structures having weather exposure.

Mortar shall conform to ASTM C 270. The mortar shall be composed of 3 to 4 parts of Portland cement to 1 part of Type S hydrated lime. Mortar sand shall have a volume equal to 2.25 to 3.5 times the total of the volume of cement and lime. Sufficient water shall be added for proper consistency. The cement and lime shall be air-entrained unless approved otherwise by the Engineer. The entrained air content of the mortar shall be within the range of 7-10 percent.

Metal castings for sewer structures such as manhole frames and covers, catch basin frames, grates and curb boxes, shall conform to the requirements of ASTM A-48 (Gray Iron Castings), subject to the following supplementary provisions:

> Casting assemblies or dimensions, details, weights, and class shall be as indicated in the detailed drawings for the design designation specified. Unless otherwise specified, the castings shall be Class 30 or better.
>
> Lid-to-frame surfaces on round casting assemblies shall be machine milled to provide true bearing around the entire circumference.

Casting weight shall be not less than 95 percent of theoretical weight for a unit cast to exact dimensions, based on 442 pounds per cubic foot.

A Certificate of Compliance shall be furnished with each shipment of castings stating that the materials furnished have been tested and are in compliance with the specification requirements.

Storm sewer manhole covers shall conform to City Standard Plate SEWR-2000 unless otherwise specified, sanitary sewer manholes in areas subject to flooding by surface water shall have self-sealing covers and recessed pick holes and conform to City Standard Plate SEWR-2001.

Unless otherwise specified, sanitary sewer manhole covers shall have recessed pick holes and conform to City Standard Plate SEWR-2001.

Gray Iron castings shall be supplied by foundries that have been approved by the State Materials Engineer.

Casting assemblies installed on manhole or catch basin structures shall be set in a full mortar bed and be adjusted to the specified elevation without the use of shims or blocking. Mortar shall be applied to the outside of the casting between casting and structure as well as around any adjusting rings according to Public Works Standard Plates.

The maximum total height of adjustment on any newly constructed manhole shall be eight (8") inches. Adjustments over eight (8") inches shall not be permitted. The Contractor shall not use steel adjusting rings on newly constructed manholes.

Manhole castings in a bituminous overlay project shall be adjusted prior to placement of the wearing course. The Contractor may use cast iron adjusting rings where appropriate. Should the adjustment require, or the Contractor chooses removal of the pavement section around the casting, the pavement shall be replaced in kind. The cut around the casting shall be neat and the edges tacked prior to placing the asphalt. Should the adjustment prior to placement of the wearing course produce an unacceptable adjustment, the Contractor shall readjust the casting.

Unless otherwise specified or approved, manholes and catch basin manholes shall have an inside barrel diameter at the bottom of forty-eight (48”) inches minimum and the inside diameter at the top of the cone section and all adjusting rings shall be the same size and shape as the casting frame. Catch basins shall have an inside diameter of thirty (30”) inches and all adjusting rings shall be the same diameter of the casting frame. Casting assemblies shall be as specified in the Plans. Catch basin grate elevations shall be adjusted as necessary to maintain the required dip below normal gutter grade. As shown on the plans.

Wherever special designs so require or permit, and as otherwise may be approved by the Engineer, a precast concrete base may be used or the structure may be constructed with cast-in-place concrete. Cast-in-place concrete will be allowed, and may be required, where it is impossible to complete the construction with standard precast manhole sections.

All annular wall space surrounding the in-place storm sewer pipes shall be completely filled with mortar or concrete, and the inside bottom of each manhole and catch basin shall be shaped with a Power Flow as shown on Public Works Standard Plates to form a free flow through invert troughs.

Backfilling operations will not commence until all mortar has a minimum of 24 hours for curing. Any exception to this specification needs to be approved by the City in advance of the work being done.

Connections made to manholes with sewer main require waterproof connections. For precast sections that are monolithic, a waterproof boot shall be used to provide such connection. As shown on the plans or directed by the Engineer, all other connections made to manholes or catch basins that are constructed with sewer brick or block require the use of a rubber water-stop that shall be placed on the pipe at the area where the constructed connection is made.

S-28 (2511) RIPRAP

Section 2511 is hereby supplemented and amended by the following:

Filter fabric shall be Type III or Type IV, MnDOT Specification 3733, as appropriate

S-29 (2521) WALKS

Supplement MnDOT Section 2521 with the following:

(2521.3C1) ADA pedestrian ramps

American With Disabilities Act (ADA) pedestrian ramps shall be installed to the required Minnesota Department of Transportation American With Disabilities Act Requirements, for the Use of Truncated Domes/Detectable Warning Systems for Pedestrian Curb Ramps. Proper used of approved materials is also required meeting current MNDOT Materials for this work. ***Pedestrian ramps will be constructed at all sidewalk intersections.*** The Engineer will determine the location of pedestrian ramps.

All non-ADA compliant pedestrian ramps impacted by construction activities shall be upgraded to ADA compliant pedestrian ramps.

The entire truncated dome area **shall be a dark gray** when the adjacent sidewalk is a light gray color.

The acceptable materials used shall conform to those items on the MNDOT material web sites:

http://www.dot.state.mn.us/products/detectablewarningsurfaces/detectablewarningsurfaces.html

Name and date stamp marks

A stamp mark showing the name of the contractor and the full date (month, day, and year) of concrete placement is required. The stamp mark shall be impressed into the sidewalk, curb, curb and gutter, drive approach or alley. The stamp mark shall be made in at least one place in every

fifty (50) lineal feet, or at the beginning and the end of the work if a lesser amount is constructed, or, in one place if only one section of concrete is constructed. Each drive approach shall be stamped in at least one place. The City Engineer shall approve the style, size of lettering and the manner of stamping.

For sidewalks that have the subgrade layer constructed with materials meeting 3149.2.B1. and the subgrade layer exceeds 6" in thickness MnDOT Dynamic Cone Penetrometer (DCP) will be utilized as a compaction testing method.

For development projects, the compaction of the aggregate base layer under sidewalks (meeting the requirements of 2211) will utilize MnDOT Dynamic Cone Penetrometer (DCP) as a compaction testing method.

Concrete work around existing trees
Concrete work around existing trees shall follow this guideline listed below:
Trees are a valuable resource in Minneapolis. As much care as possible must be taken to minimize the negative impact of construction activities to trees.

Tree Roots: No living trees shall be removed without written permission of the Minneapolis Park and Recreation Board (612) 499-9233, with the exception that any roots of such living trees that interfere with installing the sidewalk on proper grade and in accordance with tree ring requirements, shall be removed as part of the grading work. The contractor shall remove all roots within the area defined as six and one half (6-1/2) inches below the top of the new finished sidewalk grade, by severing them off cleanly with a sharp axe, or by grinding them off using a root grinding machine. Removal of roots larger than 2" requires inspection by MPRB Forestry (612)-499-9233

Tree Rings: When trees exist within the boulevard or at the back of the sidewalk tree rings must be installed in the public sidewalk adjacent to any tree closer than 18" from base of tree to normal sidewalk edge at ground level or where tree roots prevent installing a straight edge. See Standard Plate ROAD 4005, Tree Ring Installation Guide for more details.

Tree Ring Depth: The distance measured from the normal sidewalk edge to the point of the ring arc perpendicular to the base of the tree.

All tree ring depth dimensions assume that the remaining width of the sidewalk will be at least four feet.

Tree Ring Chord Length: All tree ring chord lengths will be a minimum of 6'. Maximum ring chord length will be 18' (approximately three typical sidewalk section lengths) for a large tree, or greater, if approved by the Sidewalk Inspector.

S-30 (2564) TRAFFIC SIGNS & DEVICES

For the purpose of these Standard Supplemental Specifications MnDOT 2564 shall govern, except with the following modifications and amendment(s):

(2564.3) Stop boxes, cables, signs, and meter collars

If a contractor finds, when repairing or constructing a public sidewalk, that a "water stop box" is not at the proper grade or that the cap is missing, the contractor shall notify the City of Minneapolis Public Works Water Department at (612) 673-5600 or the City of Minneapolis Public Works Sidewalk Inspections office at (612) 673-2420. All stop boxes must be located and adjusted to grade by the contractor before placement of any concrete within the public right of way.

When sidewalks are to be poured adjacent to the curb, the City of Minneapolis Public Works Traffic and Parking Services Division shall be notified at (612) 673-5750 a minimum of twenty four hours before pouring. The Traffic and Parking Services Division will furnish all parking meter and sign collars. Parking meters, signs, and/or posts damaged or destroyed during construction shall be charged to the contractor at the City's unit cost. The collars shall be placed by the contractor to the original location or as designated by the Traffic and Parking Services Division. All collars shall be placed in a true vertical "plumb" position and flush with the top of the sidewalk. Adequate clearance shall be provided for access to the collar set screws. If the collars are missed, the contractor will be responsible for the cost of installing these collars.

S-31 (2571) PLANT INSTALLATION AND ESTABLISHMENT

2571.2.K.2.b

If planting stock larger than 3" is installed the contractor shall provide an irrevocable letter of credit or post a refundable deposit of $600.00 per tree, valid for the establishment period of 1 year/ caliper inch. Example 4" caliper stock = 4 year establishment period. In the event the tree develops more than 30% crown decline during the establishment period MPRB Forestry will replace the tree using the deposit. This does not include decline resulting from mechanical injury, or loss due to impact or vandalism. Unused deposits will be returned at the end of the establishment period. The establishment period will commence on the planting date.

S-32 (2572) PROTECTION AND RESTORATION OF VEGETATION

Tree Protection

2572.3. A.1

Tree protection has two primary functions for all existing trees within a construction zone of any type: (1) to avoid physical damage from contact by equipment, materials, and activities; (2) to preserve roots and soil conditions in an intact and non-compacted state.

MPRB approved tree protection must be specified for all existing trees within construction limits that are to be retained. Tree Protection Plan and/or Landscaping Management Plan will be required of all major Site Plan Reviews and Construction projects within the City of Minneapolis. At the MPRB Forestry discretion, a Tree Protection Plan/Landscape Management Plan may be required for small projects due to extenuating circumstances.

Tree Protection Zone (TPZ) is a restricted area around the base of the tree with a minimum radius of 1 foot for each inch DBH (Diameter at Breast Height - the diameter of a tree measured at 4.5 feet above grade) enclosed by fencing.

The fence shall enclose the entire area of the TPZ of the tree(s) to be protected for the duration of the construction project.

Where a TPZ is limited by trees in pavement trunk protection (boards tied around tree trunk) shall be installed to protect against mechanical injury. The boards will reach from grade to 8' or height of lowest branches whichever is least.
For trees situated within a boulevard or near a sidewalk or driveway, only the planting strip and yard side of the TPZ shall be enclosed with the required protective fencing. Paved surfaces may be excluded from the TPZ. Modified Tree protection zones may be specified by MPRB Forestry based on specific site restrictions.(see Standard Plate FORE 0001)

All trees to be preserved shall be protected with four (4) foot high fencing. Fencing is to be mounted on heavy duty steel T-posts driven into the ground to a depth of at least one (1) foot, six (6) inches (18" minimum) and no more than eight (8) foot spacing, whenever feasible.
A weatherproof Tree Protection Zone sign shall be prominently displayed on each fence at 50-foot intervals (or wherever feasible) on the tree protection fencing. The sign shall be a minimum 8.5 inches by 11 inches

2752.3. A.5 - replace 2752-1 with MPRB supplement table

TREE SIZE	MINIMUM UNDISTURBED RADIUS	MINIMUM BORE DEPTH
Less than 3" diameter	3 feet	3 feet
3" through 8"	6 feet	3 feet
8" through 14"	8 feet	4 feet
Larger than 14"	10 feet	4 feet

Utility conduits shall be installed under or behind sidewalks and not in the boulevard between the sidewalk and curb, wherever possible. Handhole boxes shall be a minimum of 10' from any public tree.

S-33 (2573) STORM WATER MANAGEMENT

This work will be done in accordance with the applicable Standard Specifications, these Special Provisions and the following:

The following is hereby added to MnDOT 2573.3 A.1

If the Contractor fails to provide a certified Erosion Control Supervisor for the Project, the Engineer shall issue a written order to the Contractor. The Contractor shall respond within 24 hours and provide the required Erosion Control Supervisor or be subject to a $1,000.00 per calendar day deduct for noncompliance.

The Erosion Control Supervisor shall be aware of all the requirement of these Special Provisions, especially any involving (1717) National Pollutant Discharge Elimination System (NPDES) Permit.

The following is hereby added to MnDOT 2573.3 A.2:

(10) Inlet protection installation
(11) Riprap placement

If the Contractor or subcontractor(s) fails to provide the required certified installer(s), the Erosion Control Supervisor shall notify the Engineer. If either the Erosion Control Supervisor or the Engineer determines that one or more required certified installers have not been provided, the Contractor shall respond to the Engineer's notification within 2 days with the appropriately certified person(s) or provisionally certified person(s) or be subject to a $500.00 per required installer per calendar day deduction for noncompliance.

S-34 (2575) ESTABLISHING TURF AND CONTROLLING EROSION

For the purpose of these Standard Supplemental Specifications MnDOT 2575 shall govern, except with the following modifications and amendment(s):

(2575.3) Grading Preparation Prior to Seeding
Soil preparations shall include placement of four (4) inches of Topsoil borrow (MnDOT 3877.2A) and use of salt resistant sod (MnDOT 3878.2C)

S-35 (2582) PERMANENT PAVEMENT MARKING

For the purpose of these supplemental provisions, MnDOT 2582 shall govern, except with the following modifications and amendments:

Crosswalk Markings
These markings include traverse, parallel solid white lines as well as crosswalk blocks that are installed parallel to the direction of travel on the roadway. Crosswalk blocks are installed in a pattern that is transverse to the direction of travel.

Pavement markings, as shown on the plan sheets, shall be paint, epoxy resin or preformed plastic.

1. White and yellow painted pavement markings shall be as described in MnDOT Specification 3591 high solids water-based traffic paint with drop-on glass beads per MnDOT Specification 3592.

2. Epoxy resin markings shall comply with MnDOT Specification 3590, epoxy resin pavement markings (free of toxic heavy metals).

3. The preformed plastic pavement marking material shall be in accordance with MnDOT Specification 3354 except as described below:

SS-1.00 Durable, conformable to pavement and retro reflective

SS-1.01 Contains embedded net to increase tear resistance

SS-1.02 Pressure sensitive adhesive on bottom surface

SS-1.03 Retro reflective layer of glass beads bonded in a highly durable polyurethane topcoat

SS-1.04 Manufactured without the use of heavy metals, lead chromate pigments or other similar, lead-containing chemicals

SS-1.05 Nominal thickness of 0.065 in.

SS-1.06 Initial minimum retro reflectance values shown below when measured in accordance with ASTM-D4061. The photometric quality to be measured is coefficient of retro reflected luminance and shall be expressed as: millicandelas per square foot per foot-candle.

	White	Yellow
Entrance Angle	88.76˚	88.76˚
Observation Angle	1.05˚	1.05˚
Retro reflected Luninance	300	250

The patterned surface of the retro reflective pliant polymer shall provide an initial average skid resistance value of 45 BPN when tested according to ASTM E 303 except values will be taken in one direction and at 45 degree angle from that direction. These two values will then be averaged to find the skid resistance of the patterned surface.

The 3M Pavement Marking Tape Series 270 has met these specifications in the past.

The preformed plastic markings shall be installed so the surface of the marking material is below the surface of the adjacent pavement. This is accomplished by cutting grooves in the pavement to accept the preformed plastic markings.

GROOVING BITUMINOUS PAVEMENT SURFACES FOR PREFORMED PAVEMENT MARKINGS.

The preformed pavement markings are to be grooved into the existing bituminous pavement surfaces. **GRINDER-TYPE CUTTING HEADS CANNOT BE USED.** The goal of the grooving process is to protect the pavement markings from snowplow damage and ultimately extend the service life of the pavement markings. Grooving operations are incidental to permanent pavement marking operations.

The Contractor has the option to dry or wet groove the pavement while the roadway is open or closed to traffic. The groove must be cleaned completely prior to pavement marking application, using an air compressor with at least 185 CFM air flow and 120 PSI air pressure. The compressor must be equipped with a moisture and oil trap, and cannot have more than 50 feet of ¾ inch ID

hose between the compressor and the air nozzle. The air nozzle must have an inside diameter of ½ inch or greater.

1. Grooving Equipment

The grooving shall be performed by a self-propelled machine equipped with gang stacked diamond cutting blades mounted on a floating head with controls capable of providing uniform depth and alignment.

The cutting heads shall consist of stacked 1/8 inch to 3/8 inch wide diamond tipped cutting blades. The spacers between each blade must be such that the raise in the bottom of the finished groove between the blades is less than 25 percent of the groove depth. The resulting bottom of the groove shall have a fine corduroy finish. If a course tooth pattern is present, the Contractor shall increase the number of blades and/or decrease the thickness of the spacers on the cutting head.

The equipment shall be capable of grooving the total width of the groove in one pass or be capable of grooving uniform depths with multiple passes. The maximum number of passes is detailed below. If multiple passes are used, the ridge between passes shall be mechanically removed prior to groove cleaning and pavement marking application.

The equipment shall be capable of grooving double lines simultaneously or parallel lines to a uniform depth with two passes.

The equipment shall be self-vacuuming and leave the cut groove ready for pavement marking installation. Dry cut grooving, without a vacuum will only be allowed if markings run perpendicular to the roadway, such as Stop Bars. The pavement marking manufacturer shall approve the equipment and method used.

2. Grooves

The grooving shall be performed within the following tolerances. Failure to meet these tolerances will result in the suspension of work until the Contractor can demonstrate that these tolerances can be met to the satisfaction of the Engineer.

GROOVE WIDTH AND MAXIMUM NUMBER OF PASSES

MARKING WIDTH	GROOVE WIDTH	MAX NUMBER OF PASSES
4 INCHES	5” ± 1/8”	1
6 INCHES	7” ± 1/8”	1
8 INCHES	9” ± 1/8”	1
12 INCHES	13” ± 1/8”	2
24 INCHES	25” ± 1/8”	3

Since pavements are irregular, the depth of the groove across the width may vary. To compensate for this the depth of the groove shall be measured from the bottom of the groove to a straight edge extended over the groove from the pavement surface opposite the pavement joint.

FULL DEPTH GROOVE LENGTHS

Full Depth Groove Length (broken line)	10 feet ± 3 inches
Tapers at end of each line	6 inches – 9 inches
Space between Double lines	4 inches ± ¼ inch

The groove shall be placed 2 inches ± 1 inch from the edge of joints or seams along edge or centerlines.

The contractor shall provide any required interim markings that are necessary. These interim markings shall be in compliance with the requirements contained in the Minnesota Manual on Uniform Traffic Control Devices. Field measuring, spotting and interim markings shall be considered to be incidental and no direct compensation shall be made.

Performed Markings Shall Be Placed in Strict Compliance with Manufacturer's Instructions.

Payment for pavement markings installed at Contract prices per unit of material shall be compensation in full for all costs incurred in materials, traffic control, marking, installation, surface preparation, use of primers, in accordance to Contract documents or as approved by the Engineer.

S-36 (3138) AGGREGATE FOR SURFACE AND BASE COURSES

For the purpose of these Standard Supplemental Specifications MnDOT 3138 shall govern, except with the following amendments(s):

(3138) Aggregate

The only acceptable aggregate for use under this special provision shall be Class 5, 100% virgin material, unless written approval is granted by the City Engineer allowing the use of other aggregate materials.

S-37 (3149) GRANULAR MATERIAL

The provisions of MnDOT Spec 3149 are amended with the following:
Salvage Bituminous shall not be used in any granular material.

S-38 (3861) PLANT STOCK

Supplement

A "Tree Planting Permit" shall be obtained for the planting of any tree on City owned property. All permits must be obtained before any tree planting work begins. Tree planting approved by MPRB through formal City Review shall constitute compliance. Application for a Tree Planting Permit shall be requested by contacting MPRB Forestry.

Species selection and Diversity Guidelines

No more than (5) trees per genera may be represented on one block.

Ex.6 trees = min. 2 genera, 11 trees = min. 3 genera, 16 trees = min. 4 genera.

No more than five trees from the Asian Longhorn Beetle preferred host list may be represented on one block. (Birch, Buckeye, Maple, Elm, Planetree)

MPRB Forestry will furnish a list of overrepresented genera based on neighborhood. Selections in those genera should not be used.

Tree Spacing

Preferred tree spacing should equal the crown spread for the selected variety.

Minimum tree spacing should be 3/4 of the crown spread for the selected variety.

Ex. Anticipated Crown spread for variety = 40' x ¾ = 30' (min. on center spacing between trees).

Minimum Clearances for Tree Placement	
Existing Element	Min. Distance from Tree OC
Curb	24"
Building Facade	**48"**
Bike Rack	**5**'
Newsrack, trash can , utility box	**5**'
Crosswalk	7'
Fire hydrant	10'
Street light base	12'
Pedestrian level light base	**10'**
Utility pole	**10'**
Pedestrian Walkway (through	6'

walk zone)	
Outer edge of an entrance or doorway	24”
Bus stop	clear of bus loading zone
Transit shelter	**5’**
Loading Zone	clear of loading zone (reviewed on a case-by-case basis)
Stop Sign, Traffic Signal	20’
Parking Meter	**5**’
Distance to cross street	40’ approaching corner, 20’ non-approaching corner
Distance to alleys and driveways	6’

S-39 ROW TREE PLANTING

ROW Tree Planting Typologies and Requirements

A. Continuous Open Boulevard - Highest Priority for Minneapolis Streetscapes

With a goal of installing large growing canopy trees, new construction should include providing a minimum continuous open boulevard width of 8 feet. The recommended width for boulevard tree planting is at least 8.5 feet wide (face of curb to edge of sidewalk). The minimum width for any tree planting shall be 4.5 feet (face of curb to edge of sidewalk), widths from 4.5 feet to 5.4 feet (face of curb to edge of sidewalk) will be limited to small growing tree selections only. Where Continuous Open Boulevards spaces are designed, the top 24 inches shall be viable soil (MnDOT Topsoil A or MPRB Forestry approved equivalent).

B. Open Planting Spaces - Second Priority for Minneapolis Streetscapes

Where design does not allow a Continuous Open Boulevard, Open Planting Spaces in hardscape should have a minimum opening of 125 square feet per tree, and a minimum width of 5 feet.
Where Open Planting Spaces are designed, the top 24 inches shall be viable soil (MnDOT Topsoil A or MPRB Forestry approved equivalent).

C. Engineered Root Space - Third Priority for Minneapolis Streetscapes

Where Continuous Open Boulevards or Open Planting Spaces cannot be incorporated, an approved Engineered Root Space of 500 cubic feet per tree shall be required with a minimum serviceable opening of 5 feet by 5 feet. Engineered Root Space profile must have a minimum width of 5 feet, minimum depth of 3 feet, and maximum depth of 4 feet. Designs that include continuous engineered root zones and enhance stormwater infiltration are preferred.

Tree grates are discouraged, but may be allowed with the mutual consent of MPRB Forestry and Minneapolis Public Works, and may only be approved in conjunction with Engineered Root Space. In all cases, continuous open boulevards and open planting space alternatives shall be considered prior to the approval of tree grates.

Utilizing permeable pavement or pavers does not preclude the requirement for Engineered Root Space. Types of engineered root space include:

Suspended Pavement Systems

Systems that suspend pavement and are filled with uncompacted planting soil

Structural Soil Types

Rock Based Structural Soil
Sand Based Structural Soil
Or other approved structural soil mix

Structural soils are compacted to support pavement and allow root growth through connected voids between particles.
Where structural soil is used a minimum 3’ diameter column of planting soil (MnDOT Topsoil A or equivalent) with a minimum depth of 2’ shall be placed on tree center(s). See Engineered Root Zone standard plate (FORE-1003).

S-40 RECORD DRAWING REQUIREMENTS

Record drawings are required for all construction projects that alter public infrastructure within the City of Minneapolis. These record drawings are used to update public infrastructure data in the City’s Enterprise Spatial Database. This data is used by government agencies and private sector entities to guide them in subsequent planning, maintenance and design processes.

The cost for preparing record drawings shall be incidental, unless otherwise stated in the form of a pay item in the Project Contract Documents or in an Inter-Agency Agreement. No infrastructure shall be accepted by the City until record drawings have been submitted to and approved by the City.

GENERAL

The Record Drawing Plans should consist of the design plans submitted, approved, and permitted for the construction project. The information shown shall reflect the actual construction completed under the permit with any and all deviations from the design plans.

Record drawings shall conform to Minneapolis Public Works CADD standards.
For further information contact the Public Works CADD Manager @ 612-673-3623
or email @ jim.cleary@minneapolismn.gov

The following Electronic Map data is available from the City upon request:

- Building Numbers
- Centerlines/Street Names
- LIDAR
- Survey Monuments
- Orthophotos
- Planimetric
- Sewer
- Traffic
- Water

The specific record drawing requirements for each type of public infrastructure are outlined below.

ROADWAY FACILITIES

Record drawings for roadway facilities shall be submitted to Transportation Engineering and Design, 309 2nd Ave S, Room 300.

Record drawings shall at minimum include, but are not limited to the following items:

A. Horizontal changes in the right-of way; particularly sidewalk and roadway geometry including tapers, widths & alignment shifts
B. Vertical changes in the right-of way; particularly sidewalk and roadway geometry (profile changes)
C. Radii of driveways, alleys and intersections
D. Pavement section (pavement thickness) within the right-of way; particularly sidewalk and roadway
E. Materials (changes in mix design or base materials) within the right-of way; particularly sidewalk and roadway
F. Locations of any property irons, or survey control monuments altered during the project

SEWER (STORM DRAIN & SANITARY) FACILITES

The Contractor shall provide record drawings which accurately depict what was constructed for all sewer and storm drain facilities that the project installs, relocates, removes, or replaces to Surface

Water and Sewer Design, 309 2nd Avenue S, Room 300 regardless of ownership of the facility. Record drawings shall include, but are not limited to the following items:

A. The horizontal location of all work
B. Connection to existing infrastructure
C. The existing curb lines
D. The type of existing soil encountered
E. All invert elevations, structure elevations, sump elevations and finished grade
F. Pipe size, materials and pipe grades
G. Manhole types, materials, size, depth below invert, rim elevation
H. Casting Types
I. Special details of work not covered by City Standard Plates
J. Prior location of removed facilities, and
K. Location and method of facilities abandoned in place
L. Locations of connections to existing system
M. Control information for coordinates and elevations
N. Construction Date (Year, Month and Day)
O. Built by and Ownership information

Samples of the Record Drawing format may be obtained by contacting the Surface Water and Sewer Design group at 612-673-3617.

All record drawings shall be submitted to the City Surface Water and Sewer for review and approval no later than 30 days following construction activity completion.

No infrastructure shall be accepted until record drawings have been submitted and approved by Surface Water and Sewer Design. The Contractor shall not be relieved of locating and/or Gopher State One Call responsibility on the project until after all record drawings have been provided to, reviewed and accepted by the City.

Payment shall be compensation in full for all costs of materials and labor to perform the necessary field survey, record the field notes, draft all record drawings to City Standards, and all incidentals thereto as described above to create record drawings of final installed sewer facilities in accordance with the above schedule. Record drawing creation shall be paid for as "**Sewer Record Drawings", Lump Sum.**

STREET LIGHTING, TRAFFIC SIGNALS, TRAFFIC SIGNAL INTERCONNECT & FIBER OPTIC FACILITIES

All as-built record drawings pertaining to City of Minneapolis streetlighting, traffic signals, signal interconnect and fiber optic facilities, or empty Traffic conduits installed for future use shall be performed by the City of Minneapolis Traffic Department. The contractor shall notify Darryn Proch at 612-673-5516 or Darryn.proch@minneapolismn.gov prior to commencing work. The Traffic Division Record Drawing Group shall be notified of all project pre-construction meetings and construction progress meeting schedules as well as obtain contact info for contractor

project manager and site foreman. The contractor will not be responsible for bidding the Traffic as-built record drawings line item.

A. Electrical facility locating during construction

Locating of newly installed underground electrical facilities or existing underground electrical facilities that are abandoned or designated for reuse, whether or not they have been documented or recorded, will be the electrical contractor's responsibility until final project acceptance.

S-41 UTILITY AGREEMENTS, PERMITS AND ORDERS

A. The City makes no warranty, express or implied; that the utility companies will relocate their facilities in accordance with the terms of any applicable Agreements, Permits or Orders

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B. The Contractor may be required to work in and around utility properties and has considered this fact when preparing their proposals and estimates.

C. The above shall not be construed as being a modification of any of the Provisions of 1507.

S-42 CONCRETE PAVED STREETS RESTORATION

These specifications will specify the manner and extent of the restoration for city Portland concrete streets for utility cuts. These specifications will be applied to concrete utility cuts that have the maximum dimension of 12 feet x 12 feet. For Portland concrete pavement projects that were built in the last 10 years and/or larger restoration projects that involve multiple utility cuts or large continuous trenches a recommendation of the project specific restoration shall be determined by the City of Minneapolis.

Therefore, it shall be understood that the contractor warrantees the restoration work (materials and workmanship), for two years after the date stamp, which shall be placed on every individual concrete repair. This warrantee shall include settlement or failure of the concrete restoration or base.

Because of variable conditions of pavements encountered, the guidelines for the individual finished restoration for each cut will vary from: no new joints in the pavement to be allowed, to reasonable restoration work which may introduce new joints in the pavement. These guidelines are further detailed below.

Good pavement condition (as determined by the City) restoration requirement: If the existing pavement exhibits distresses that are generally of low severity (this corresponds to roughly a Pavement Condition Index (PCI) of approximately 100-75) or where upon visual inspection there are little or no distresses in the pavement or joints failures, faulting or other typical surface defects, the level of restoration will be, No New Joints. This means all affected sections or panels will be replaced from original pavement joint to original pavement joint. Generally this entails placing 1" diameter dowels bar assemblies- 18" long @ 12" center to center along the transverse joints and placing/securing #4 tie bars-18" long@ 24" center to center along the longitudinal joints. The Pavement Condition Index (PCI) would be provided upon request.

Fair pavement condition (as determined by the City) restoration requirement: In concrete areas which show a medium severity condition of surface defects (this corresponds to roughly a PCI of approximately 74-60) or where upon visual inspections indicates significant faulting, random cracks, old utility cuts, asphalt patching, joint failures, the level of repair/removal shall extend to the original/existing pavement joint if the original pavement joint is within thirty six (36) to the edge of the cut. If it is beyond this distance, then the existing cut will remain at the limit. All joints around the cut pavement shall be tied and secured utilizing #4 tie bars - 18" long@ 24" center to center (exception being an existing transverse joint where dowel bars shall be placed).

Poor pavement condition (as determined by the City) restoration requirement: In concrete areas which exhibit a high level of severity and/or a higher variety of distresses than above (this corresponds to roughly a PCI of approximately 59-0) or as determined by visual inspection the restoration shall be to the original pavement joint if the joint is within eighteen (18) inches to the edge of the cut and then the removal shall extend to this original pavement joint. If it is beyond this distance, then the existing cut will remain the limit. All joints around the cut pavement shall be tied utilizing #4 tie bars -18" long@ 24" center to center (exception being an existing transverse joint where dowel bars shall be placed).

If MH are encountered for all of the above restoration conditions -place 8 foot long, No. 4 rebar around manholes (See City of Minneapolis standard plate detail sheet).
Concrete Pavement thickness shall be a minimum of eight (8) inches or match the existing pavement, thickness, whichever is thicker.
A minimum of four (4) inches of compacted MNDOT Class 5 aggregate base shall be placed directly below the concrete pavement.
All pavement sawing shall be complete cuts which extend from the pavement surface to the bottom of the concrete pavement.
Class 5 aggregates shall meet the MNDOT and City of Minneapolis specifications requirements.
Concrete to be utilized for small pavement cuts shall be 3A41, 3F52 or 3HE52 and 3F52 or 3HE52 for curb and gutter construction. For large paving repair projects 3A41 or 3A41HE shall be used.
All bars are to be epoxy coated.
All joints to be green cut after concrete placed. Cut time is determined by contractor – critical to shrinkage cracking and raveling.
All saw cut joints to be cleaned and air blasted before placement of approved hot poured sealant meeting MNDOT Specifications for Portland Concrete
All affected pavement markings to be replaced.

Panel Replacement shall conform to the MNDOT State Aide Concrete Pavement Rehabilitation Best Practices Manual of 2006 or as modified by the City of Minneapolis Standard Plates whichever has the latest review date.

END OF DIVISION S - GENERAL SPECIAL PROVISIONS

DIVISION SL - LIGHTING SUPPLEMENTAL SPECIFICATIONS

SL-1 (2545) ELECTRICAL SYSTEM

This work shall be done in accordance with the applicable Minnesota Department of Transportation "Standard Specifications for Construction", 2016 Edition.

The provisions of MnDOT 2471, 2545, and 2565 shall apply in addition to the following: bidders are advised that compliance with the provisions of MnDOT 1702, MnDOT 2545.2A, and the first paragraph of MnDOT 2545.3A will be particularly enforced in conjunction with the construction of any kind or type of electrical system, conduit or conduit system for the conveyance of the electrical conductors, or the required portions thereof, as specified in the Contract. The Minnesota Electrical Act requires that a permit be obtained for the performance of all such work, including the installation of conduits.

SL-1.1 Scope of Work

The Contractor shall furnish all labor, equipment and materials for the installation and connection of separate underground distribution circuits in conduit to a street lighting system. These materials shall be as shown in the Plan or described within the special provisions and include but shall not be limited to the following items:

Electric Lighting System:

- street lighting poles and luminaires
- rigid steel and non-metallic conduits
- street light foundations (light bases
- electrical handholes (pull boxes)– Minneapolis Standard
- street lighting pole wire
- in-the-line fuse holders and fuses
- service cabinets pad mounted, and service laterals
- service cabinet foundations
- end caps
- bus shelter feeds and circuitry
- lighting and bus shelter conductors

The electrical contractor is responsible for coordinating the turn on of all permanent electrical services with the City of Minneapolis Traffic and Parking Services Division

(TPS) and Xcel Energy. After State of Minnesota electrical inspection and approval of each metered electrical service location and after notification is provided to the TPS Electrical General Foreman (612-673-5759), the City will submit an application for electrical connection and meter installation to Xcel Energy.

SL-1.2 GENERAL

The distribution circuits of the lighting system shall be of the multiple types consisting of four conductors installed in conduit. Three of the conductors shall constitute two 120-volt circuits and the fourth conductor shall be used as an equipment ground.

Power supply to the lighting system is metered 120/240 volt, single phase, alternating current, and shall be distributed from separate service cabinets regularly spaced throughout the project.

Reference to “the City” or “the City of Minneapolis” in these Special Provisions shall be interpreted to mean “the City of Minneapolis Traffic and Parking Services” or its designated representative.

The Contractor for this Contract shall be responsible for locating all Contractor-installed underground facilities within or outside the project limits until acceptance of the completed project by the City.

The City shall review and approve all work performed by the Contractor prior to the Contractor requesting acceptance by the Engineer.

References to standard plates are subject to change. Contractor must verify the latest standard plate revision version on the City of Mpls website www.minneapolismn.gov.

SL-1.3 Shop Drawings and Submittals

The Contractor shall submit to the Engineer for approval a complete list of electrical system components. This list shall include the names of all suppliers and manufacturers and catalog numbers for the various components. This list must be approved by the Engineer prior to initiating any work on the Electrical Systems.

The Contractor shall furnish to the Engineer, for preliminary review, an electronic pdf file of shop detail drawings that can be marked up and edited on Mpls Traffic software, in accordance with the provisions of MnDOT 2471.3B. The shop detail drawings shall be identified by "City of Minneapolis" and the fabricator. Drawings shall be returned to the Contractor showing any necessary corrections.

The Contractor shall furnish and obtain approval of templates used for setting anchor bolts and verifying concrete workmanship for all light and cabinet bases.

The Contractor shall furnish to the Engineer, for final approval, an electronic pdf file of the shop detail drawings that can be stored and edited on Mpls Traffic software systems. The name of the project shall be included in the file name title. The final approved shop detail drawing electronic pdf file shall be distributed, after approval to the following:

(1) Contractor
(2) Contractor's Fabricator
(3) Project Engineer
(4) City of Minneapolis Traffic and Parking Services

Approval of shop drawings and submittals shall neither relieve the Contractor from the responsibility for deviations from the drawings or specifications unless he has, in writing, called the Engineer's attention to the deviations at the time of submission, and secured written approval, nor shall it relieve him from the responsibility for errors in shop drawings or submittals.

Provide certification by a registered engineer in the State of Minnesota that the lighting units have been designed to the loading requirements of the most current AASHTO Standard Specifications for Structural Supports for Highway Signs, Luminaries and Traffic Signals.

Submittals specifically for any proposed alternate lighting units not in conformance with the Minneapolis Streetlight Policy must be delivered to the Engineer no later than 4:00 p.m. sixteen (16) calendar days prior to bid opening. Only lighting units as shown in Contract drawings or pre-approved prior to Bid Opening will be accepted. A submittal for an alternate lighting unit and banner pole shall include the following:

(1) Complete catalog cuts sheets for pole, arm, luminaire, and accessories. All sizes, weights, styles, functionality, certifications, and colors shall conform to the Plans and specifications. Provide detailed color submittal with a sample.

(2) Provide for evaluation by the Engineer one sample of the Special 1 Lighting Unit (Luminaire, Pole and Arm). Samples must be delivered to the City of Minneapolis office at 300 Border Avenue.

(3) Paint process information.

(4) Photometric analysis in AGI32 format that demonstrates the luminaires proposed will provide illumination levels, uniformity and veiling luminance levels per City of Minneapolis guidelines for the adjacent roadway(s). Upon request, the Engineer will provide an electronic AGI32 file with all parameters set up. All submittals shall use the geometries, settings (LLF =.850), calculation grids, light locations, light heights and other parameters contained in the file obtained from the Engineer. The Proposer shall only change the fixture,

re-compute the analysis, and submit the electronic file to the Engineer for evaluation.

(5) Provide manufacturer's warranty information.

SL-1.4 Materials

The Engineer reserves the right to sample, test, inspect, and accept or reject any of the materials used for the Lighting Systems based on MnDOT or City of Minneapolis tests. However, the Engineer may, at his option, accept materials on the basis of listing by Underwriters Laboratories, Inc.

Fabrication and inspection of structural metals used for the Lighting Systems shall be in accordance with the applicable provisions of MnDOT 2471.

A. Conduit

1. NMC Conduit: NMC conduit and conduit fittings shall be either Type II heavy-wall rigid PVC Schedule 40 plastic conduit and conduit fittings per MnDOT 3803, or HDPE schedule 40 conduit. NMC MUST be UL Listed, Labeled, and Marked per the NEC. **A pull rope, approved by the City, shall be installed in each conduit along with each run for future use. Conduit not designated for immediate streetlighting use must have a tracer wire Tracer wire shall be one (1) #10 AWG THHN, 600 volt single conductor cable (identifier conductor), orange in color. All tracer wires shall be terminated to the grounding electrode system. Pull rope shall be included with tracer wire.**

2. Metallic Conduit: Metal conduit shall be Rigid Steel Conduit (RSC) and conduit fittings per MnDOT 3801. Intermediate Metal Conduit (IMC) and conduit fittings are not permitted. RSC MUST be UL Listed, Labeled, and Marked per the NEC.

B. Handholes (Pull Boxes)

All handholes shall be Minneapolis Electrical Handholes which have metal rings and covers as shown in Minneapolis Standard Plate Nos. TRAF-1710-R2 and TRAF-1715-R3 in the Plans and shall conform to the City of Minneapolis standards. Ring & Cover shall meet Tier 22 rating requirements (ANSI/SCTE 77-2007). A drain field shall be provided with each handhole. Concrete for supporting the metal ring and cover shall be Mix No. 3A32 or equal.

Handholes rings and covers shall be constructed from Class 30 Grey Iron and left unpainted.

C. Anchor Rods

Anchor rods, nuts, and washers shall be galvanized in accordance with the provisions of MnDOT 3392 and the details shown in the Lighting Plan.

D. Electrical Cables and Conductors

All electrical cables and conductors shall conform to the requirements of MnDOT 2545.2D amended as follows.

The single conductor feeder wires, control wires, and distribution wires shall have Class B stranded annealed uncoated copper conductors and be listed by UL as Type RHW-2/USE-2, 90 degree C, crosslinked polyethylene, insulation rated 600 volts in accordance with Article 338 of the National Electrical Code. Cable shall meet requirements of ICEA Publication No. S-66-524, NEMA Pub. No. WC7 for crosslinked-polyethylene-insulated wire and cable, and UL standard 854 for service entrance cables. Wire shall bear UL label for Type USE-2, have footage markings every meter, and surface-marking indicating manufacturer's ID, conductor size and metal, voltage rating, UL symbol and type designations**. The insulation on each conductor shall be colored red, black, white and green, in accordance with the color-coding shown in the construction plan. The wires shall be twisted in a planetary wrap with a consistent length of lay as per ICEA S-95-658.**

Single conductor pole wires connecting the luminaire to the distribution circuits shall be 1/C #12 stranded wire with THHN/THWN rating.

E. Service Cabinet

The service cabinet shall be the City of Minneapolis standard street light and signal service cabinet; shall be no bigger than that shown on the Plans; and shall be a pad-mounted, weatherproof control cabinet. See Equipment Pad details for specific service cabinet requirements at each service point.

1. Pad Mount Signal/Lighting Service Cabinet

The service cabinet shall be constructed in accordance with City of Minneapolis Standard Plate Nos. Traf-3500 and Traf-3631-R4 and the following:

a. The cabinet enclosure (physical enclosure only) shall be UL listed with the UL label affixed to the inside of the cabinet, and shall carry a NEMA 3R rating to provide a degree of protection against rain, sleet, snow, and dripping water.

b. Each cabinet shall be free of flaws, cracks, dents and other imperfections.

c. All surfaces shall be smooth and clean.

d. All seams and joints shall be smooth and even, without cracks, air leaks or pinholes with no sharp or jagged edges.

e. All interior attachments to the cabinet exterior sheet metal shall be welded (i.e. no through bolts).

f. There shall not be any sheet metal attached externally to the cabinet shell.

g. Cabinet lifting provisions shall meet the UL requirements for the NEMA 3R cabinet. The lifting provisions shall consist of aluminum lifting ears mounted to extend above the top of the left and right sides of the cabinet enclosure, allowing a bar or hooks to be inserted through both ears for lifting the cabinet. The lifting ears shall have a lifting capacity equal to the weight of the completely wired cabinet plus 25 percent, 500 pound capacity minimum. Each lifting ear shall have a 1 inch hole, the bottom of which shall be flush with the top of the cabinet or less than 3/8 inches above the top of the cabinet. The top of the lifting ear shall extend no more than 2 to 2 & 1/8th inches above the top of the cabinet at the point where the ear is attached. The lifting ears shall be centered on the cabinet side walls such that the cabinet will not pitch or tilt when lifted. The lifting ears shall be secured to the cabinet by means of stainless steel bolts, allowing the ears to be inverted. The positioning of items mounted inside the cabinet shall not restrict access to the bolts. Ship the cabinets with the lifting ears in the up position.

h. The design, workmanship and attachment of the one-piece panel boards and dead fronts shall be a secure and aligned containment for the circuit breakers. The one-piece panel board and dead fronts shall be stamped with easily removable blank breaker cutouts to match the full capacity of the breaker panel. The panel board breaker cutouts shall precisely match the containment provisions of the breakers.

i. The screws for attaching the cabinet dead fronts shall be of a permanent capture design to prevent lost and misplaced screws. Attachment of the dead fronts to the cabinet shall be accomplished using threaded inserts and offset cam cylinder latches.

j. Contactors shall be normally open, NEMA rated, AC lighting contactors rated 277/480 volts with a 120-volt, 60 Hz coil, and contacts rated for 60 ampere tungsten filament load. Contactors shall be double lugged with the double lugs on the contactors installed such that field wires shall be connectable on the front

lugs of the contactor. Contactors shall be installed vertically in the cabinet. Contactors shall have a positive gravity release. Contactors shall have an (off or on) condition display mechanism.

k. The service cabinet shall have one 100 amp two-pole thermo-magnetic circuit breaker as a main breaker and single pole thermo-magnetic circuit breakers as branch breakers on each circuit panel.

l. The Vendor shall furnish and install the following in each service cabinet:
- Two (2) **200 amp meter sockets** with disconnect.
- One (1) bracket mounted single pole test switch rated 15 amperes at 125 volts.
- Two (2) 60 amp two pole contactors.
- 15 amp and 60 amp circuit breakers as indicated on details. All 60 amp multi-wire branch circuits shall have Schneider Electric / Square D QO1HT Handle Ties.
- One (1) photoelectric cell.
- Two (2) 12 circuit panels.
- Power distribution terminal block.
- Current limiting protector w/JJN-125 class T fuses
- One (1) 120 volt 15/20 amp GFCI convenience receptacle.

m. The photoelectric cell shall have normally open contacts rated 15 amperes. The photo control shall be installed within the lighting service cabinet. It shall be bracket mounted immediately behind a Plexiglas covered hole. The hole shall be located on the side of the cabinet. The hole size and location shall be as shown on the service cabinet detail. Mounting shall be as directed by the Engineer. The photoelectric control shall be in accordance with the MNDOT 3812 and have a minimum 30-second time delay capability.

n. The electric meters shall be installed within the service cabinet as shown in the details. The electric meter sockets shall be suitable for single phase, 3 wire, 120/240 volt service with a utility approved manual bypass switch. The Utility Company will provide the electric meters. Sockets shall be provided and installed by the vendor. The placement of the meter socket and meter, door lock, and the viewing window shall permit the door to be closed, and the meter to be read electronically from outside the cabinet.

o. Each cabinet shall have an anodized etched finish (Aluminum Association C22) with an Architectural Class 1 (Aluminum

Association A42) hard coat finish of at least 0.7 mil. Finish color shall be 30 minute clear aluminum as directed by the City.

p. Locks shall be furnished and installed by vendor. Locks shall be keyed for a standard No. 2 traffic signal key.

q. No company logos and/or advertising shall be placed on any part of the cabinet exterior.

r. The contractor shall be responsible for creating and installing arc flash warning labels. These labels shall meet the requirements of section 110.21(B) of the National Electric Code (NEC) and NFPA 70E Standard for Electric Safety in the Workplace.. Contractor is responsible for obtaining all relevant information from Xcel Energy to perform the required calculations.

..... F. Lighting

Poles and fixtures used for street lighting must be approved for use by the City of Minneapolis. Approval is based on operation, maintenance, and cost criteria. The following web site links provide information on the City of Minneapolis Street Lighting Policy. All 30-foot streetlight poles shall be:

- Material: high strength, low alloy steel 50,000 PSI min. yield (ASTM A571 or eq.), pole base plate material to be 36,000 psi min. yield (ASTM 36)
- Finish: UPS Brown paint over galvanized
- Final tube size: fabricate from 7E-8.00 X 3.57 X 31'-8:" & Cut to final length after bending.
  (7 GA = 0.179" wall thickness)
  (E = rounded tapped steel tube @ 0.14 in/ft TAPER)
  Per standard plate TRAF-3206-R4
  30' pole transformer base per standard plate TRAF-3160
- Pole shall be manufactured in America.

http://www.minneapolismn.gov/publicworks/streetlighting/index.htm

Contact Minneapolis Traffic and Parking Services for current lighting unit specifications.

Finishes

The luminaires, poles, arms, fitters, and all other exposed hardware shall be finished with polyester powder paint to insure maximum durability. All 15-foot streetlight poles shall have a black anodized finish. 15' poles manufactured per standard plate TRAF-3279-R2.

All painted metal parts shall go through an alkaline cleaning process, receive microcrystalline phosphate pretreatment, a sealing treatment, then the prepared metal surface shall be thoroughly rinsed with high purity deionized water to remove unwanted chemicals. A controlled drying process shall be completed prior to applying the electrostatic polyester powder paint. Color shall be per architectural specification.

Warranty

All material for lighting units and banner poles shall come with a 5-year manufacturer's warranty. This warranty shall cover defects in material and workmanship for the paint finish, mechanical, optical, and electrical components. The manufacture shall either repair or replace any lighting unit or banner pole components due to these defects.

Interchangeability of Parts

All major assembly items (pole, arm, fitter, luminaire) for lighting units shall be interchangeable with lights currently approved by the City.

G. Fuses

Street Light Standards in the 120/240-volt system shall be fused in accordance with Plan details. Fuses and fuse holders shall be "UL" listed. Fuse holders shall be Ferraz-Shawmut in-the-line FEB-11-11 with a FSB-1 waterproof boot or Cooper Bussmann, Inc. HEB-AW-RLC-A, and a Bussman BAF-10 single element fuse, or approved equal.

H. Light Base Design (Foundations)

Light pole bases and anchor rods shall be in accordance with City of Minneapolis Standard Plates. Contact Minneapolis Traffic and Parking Services for the current Standard Plate.

I. Equipment Pad (M)

Anchor rods, nuts and washers in each lighting service cabinet concrete foundation shall be Type A Anchor Rods in accordance with MnDOT 3385; shall be galvanized full length in accordance with MNDOT 3392; and shall be four (4) sets in quantity for each cabinet (anchor rod, two hex head nuts, and washer). Each anchor rod shall be ¾ inch diameter by 20 inches long before bending a 2-inch "L" on one end and the other end shall be threaded a minimum of 8 inches. Each anchor shall be provided with two (2) galvanized nuts and one galvanized washer. Service cabinet foundations shall be constructed in

accordance with City of Minneapolis Standard Plate No's. Traf-3094-R2 or Traf-3088 as shown on the Plans.

J. Availability of Material

Handhole (pull box) rings and covers, which meet the requirements of these Special Provisions may be able to be purchased depending upon availability from the Minneapolis Public Works Department, Traffic and Parking Services at the option of the Contractor. Contact Traffic Stores at (612) 673-5750.

SL-1.5 Construction Requirements

A. Conduit Placement

Conduit size throughout the lighting project shall be 2-inch NMC unless otherwise noted on the Plans.

Conduits shall be installed underground a maximum of 12 inches from the back of the curb, except through bridges, approach slabs, and under railroad facilities, to a depth of 2 feet, as shown in the Plans or as directed by the Engineer. All conduits installed beneath surfaced streets shall be installed with a minimum cover of 2 feet. Cover material shall not contain rock or other debris that could damage the conduit. The cover material shall be firmly tamped into place in 6-inch lifts to minimize uneven settlement above or below the conduit.

The Contractor shall install red City of Minneapolis Traffic and Parking Services marking tape for marking underground Traffic utilities at a distance of 6 inches above all new conduit placed by the trenching method. Installation of the marking tape by the Contractor will be considered to be incidental work to installing the conduit and no direct payment will be made therefore. The required marking tape shall be purchased from the City of Minneapolis Traffic and Parking Services at 300 Border Avenue North.

B. Extension of Conduits:

The Contractor shall provide a continuous length of conduit of size and type noted on the Plans between the specified terminal points.

1. Installation of Conduit into handholes (pull boxes):

Conduits shall be installed entering handholes (pull boxes) through the sidewalls of the handholes (pull boxes), not through the bottom gravel foundation. Conduits shall be installed into handholes (pull boxes) by use of a hole saw to cut through the handhole (pull box) wall. Areas surrounding conduit entrances shall be sealed by filling them with mortar. Conduits installed by the Contractor shall extend a minimum of 2 inches and no more than 3 inches into any handhole (pullbox).

2. Installation of Conduits Under Driving Surface and Sidewalk:

   All conduits that are to be placed under driveways, streets and sidewalk that are not scheduled for removal shall be directional bored, or other method approved by the Engineer that will not damage or disturb the integrity of the driveway, street or sidewalk. All conduits that are to be placed under driveways, alleys, streets, or sidewalk that are scheduled for removal must be placed during the time between the removal of the existing surface and the commencement of pavement operations. The Contractor is responsible for coordination with the paving operation.

3. Extension of Conduit into Handholes (pull boxes) at Traffic Signal Locations:

   The signal assemblies with street light fixtures will have conduit stub outs. These stub outs shall be extended by the Contractor into handholes (pull boxes) installed under the lighting construction Plans and specifications. The Contractor shall be responsible for verifying and coordinating the locations of these handholes (pull boxes) with signal construction prior to placing lighting conduits. Lighting and signals are not to share any conduit unless directly stated in the Plan or directed to do so by the Engineer in writing.

4. Connection to Existing Conduits:

   The Contractor shall locate the ends of existing conduits as shown in the Plans and extend the conduit to handhole (pull box), luminaire pole base, etc. which is to be built by the Contractor. Existing conduits exterior surface shall be cleaned to form a secure connection to the extension.

5. In general, all conduit runs shall be straight and true, and all offsets and bends shall be uniform and symmetrical**. Field bends of conduit shall not be permitted unless performed with an approved heating / bending unit designed for that purpose.** The Contractor shall adjust the elevations of the conduit assembly, for its full length, to approximately the same gradient as the finished roadway, and shall furnish and install, in the trench, such suitable spacers and framing as may be necessary to maintain the correct grade and alignment.

C. Handholes (Pull Boxes)

Rings and covers shall be set in a bed of mortar and leveled to the finished surrounding grade. Cast-iron ring and covers constructed in accordance with City of Minneapolis Standard Plate No. TRAF-1715-R3 shall be furnished and installed by the Contractor. Handholes (pullboxes) shall be constructed in accordance with Minneapolis Standard Plate No. TRAF-1710-R1. A ring field shall be provided with each handhole (pullbox).

A drain field shall be provided with each handhole (pullbox). Rings and covers for new or relocated handholes shall be prepared for grounding prior to installation. Grounding shall be accomplished by attaching ground lugs for connecting both a 30 inch long #6 solid copper ground wire to the underside of the handhole ring and a 12 inch long #2 braided ground cable between the underside of the handhole ring and the underside of the handhole cover. Handhole (pullbox) frame shall be connected with a ground clamp to a 1/2 inch by 8 ft ground rod sunk inside of the handhole.

Conduits shall be installed by the use of a hole saw to cut through the handhole (pullbox) wall. The area surrounding the conduit entrance shall be sealed with a mortar filling. Conduits shall extend a minimum of 2 inches and not more than 3 inches into the handhole (pullbox). No splicing is allowed in the handhole unless otherwise specified in these specifications.

The Contractor shall remove to the bottom of the handhole (pullbox), any excess material inside of the handhole (pullbox).

The Contractor shall salvage in place handholes (pullboxes) not reused as part of a revised permanent signal system unless otherwise directed by the Engineer. Metal handholes (pullboxes) shall not be reused.

High density polymer handholes shall be replaced with steel handhole ring and covers if disturbed or if adjacent concrete is removed or require relocation by the project. Reuse of these is not permitted.C. Foundations (Light Bases)

All street light foundations (light bases) shall be constructed as shown on the Plan details and shall be located in the field by the Engineer. In general, the foundations (light bases) shall be placed with the centerline of the foundation (light base) **24 inches from the backside of the curb** at the appropriate elevation relative to the surrounding terrain. The Contractor is responsible for obtaining the location of existing utilities and for identifying any possible conflicts. Any such conflicts shall be reported immediately to the Engineer.

Concrete for all foundations (light bases) shall be Mix. No. 3Y43 free of chloride additives, placed and consolidated using vibratory equipment. All square foundations shall be finished on all sides with broom finish and be edged with a ½" edger. All round foundations shall be chamfered with a ½" radius edger and broom finished on top, all in accordance with the provisions of MnDOT 2565.3F. Concrete shall be allowed to cure for a minimum of seven (7) days before being placed into use unless otherwise permitted by the Engineer. All light pole bases shall have two 2" conduits for present and future street lighting connections. All 30ft foundations shall have an additional 2" stub for future or present small cell connection toward sidewalk.

Concrete bases shall be broom finished and level. No more than 0.25 inches of variability compensated by shims will be allowed. Variability in excess of this

will require resurfacing or replacement at the direction of the Engineer. Inspections will be performed using a Contractor supplied City approved ½" thick steel template manufactured to match the lights bolt circle and foot print dimensions. **The first base shall be inspected in detail, approved and used as the standard for finish and workmanship. All foundations shall be installed utilizing approved templates. All templates required are incidental to the project.**

All foundations shall be constructed such that the top of the foundation is at least 3 inches above the finished grade of the surrounding surface.

Improperly constructed foundations shall be removed and replaced when directed to do so by the Engineer or corrected by the City Forces at the expense of the contractor.

Provide an additional conduit sweep with cap or plug when the base is for the last light on a circuit.

D. Installation of Lighting Units

The Contractor shall mount light standards directly on the foundation (light base). The use of leveling nuts is not permitted. Any light standards that are not plumb shall be corrected up to 0.25 inches using stainless steel washers. **The Contractor, at the Contractor's expense, shall recap or replace foundations (light bases) that are incorrectly installed.**

Davit mounted luminaires shall be installed with the LED board level in all directions. Post top mounted luminaires shall be installed with correct orientation of the designated street side and house side defined by the manufacturer.

E. Wiring of Luminaires

The four conductor lighting distribution circuits shall pass through the transformer base of each street light luminaire pole, and traffic signal light pole as shown on Plans. The lighting circuits share a common ground. The conductors shall be fused with the fuses installed in the phase wire to the luminaire-mounted ballast at the base of the light standards as directed by the Plans, specifications herein, and the Engineer. Fuse holders shall be installed in such a manner that the fuse stays with the load side when the holder is separated. Suitable solderless connectors shall be used. **All splices must take place in pole bases unless approved by the Engineer.** All splices shall be weather tight and use Burndy Multi-Tap BIBS-4-3 or 4-4 connectors as noted in City of Minneapolis Standard Plate Nos. Traf-3623-R1 and Traf-3627-R2. For payment purposes the splicing connector, fuse holder, fuse, and the luminaire connection cabling shall be considered to be incidental to the luminaire.

Sufficient excess conductor length shall be provided for maintenance purposes. In addition, the Contractor shall form loops in the leads on each side of the fuse holders and so position the fuse holders so that they may be easily removed or inserted through the access hole. The grounding conductor shall not be fused.

The 120 VAC conductor to the luminaires shall be alternately connected to the red or the black conductor of the street lighting distribution circuit. No two loads shall be wired on the same phase consecutively.

The Contractor shall submit a sample of the fuse holder and splice connectors they will be installing BEFORE any installations are made.

F. Grounding

The grounding conductor shall be bonded to the grounding lug and the foundation (light base) ground rod at every third street light. A No. 12 AWG bare copper conductor shall be used.

G. Painting

All lighting units shall be factory painted by the manufacturer as described in the lighting unit section.

Painting of all other equipment shall be in accordance with the provisions of MnDOT 2565.3, except that finish coat paint for all items shall be two coats.

Paint samples must be submitted to the Engineer for approval prior to painting. The Contractor shall furnish all paint required after confirmation of the exact paints and colors.

All lighting units shall be shop or factory painted as required except for providing any necessary repairs of damage to paint coats that occur during unloading and erection at the site.

H. Wiring of Service Cabinets

Where service equipment is supplied from the Utility Company's overhead circuits, lightning surge arrestors shall be installed in the cabinets on the supply side of the service equipment.

At the pad mounted service cabinets, the Contractor shall establish a 25-ohm ground by the use of copper clad ground rods.

A No. 6 AWG bare copper wire shall be extended from the ground rods and be bonded to the pad mounted service cabinet. The ground rods shall be cast into the service cabinet pad and be inside the service cabinet ring.

When called for in the Plans, two (2) No. 2 AWG lighting conductors and one No. 2 AWG neutral conductor shall be extended underground from the pad mounted service cabinet in 2 inch RSC conduit to the utility company service vault or transformer. These #2 conductors shall be color coded red, black, and white. They shall be USE or better insulated.

When called for in the Plans, two (2) No. 2 AWG lighting conductors and one No. 2 AWG neutral conductor shall be extended underground, in conduit, from the pad mounted service cabinet to the utility companies pole and up the pole in 2 inch rigid galvanized steel conduit to a weather head located below the utility distribution circuits as directed by the utility and as shown on City of Minneapolis Standard Plate No. Traf-3510 and in the Plans.

The ground conductor shall be terminated in and be bonded to the pad mounted control cabinet. The neutral conductor shall be bonded to the ground conductor in the pad mounted control cabinet.

Feeder conductors shall be color-coded in the control cabinet and at the weather head or service vault.

The utility will make the final service connections after the Contractor has filed a Certificate-Affidavit of Inspection, with the utility.

I. Cabinet Pads

Concrete pad finishing shall be smooth, flat, and level. No more than 0.125 inches of variability compensated by shims will be allowed. Variability in excess of this will require resurfacing or replacement at the direction of the Engineer. Inspections will be performed using a Contractor supplied City approved ½" thick steel template manufactured to match cabinet dimensions. The first pad shall be inspected in detail, approved and used as the standard for finish and workmanship. All templates required are incidental to the project.

J. Removing and Salvaging Existing Systems

When directed by the Engineer, the Contractor shall remove and salvage all items of the existing street lighting systems, underground cable, conduit, service equipment, cabinet and street light foundations (light bases), and handholes (pull boxes), in accordance with the applicable provisions of MnDOT 2104; with the applicable provisions of MnDOT 2565.3T, and the following:

1. Underground conduit shall be removed unless otherwise directed by the Engineer.

2. The salvaged lighting units and handhole (pullbox) rings and covers shall be delivered to the City of Minneapolis Traffic and Parking Services at 300 Border Avenue North in Minneapolis. The salvaged material shall be deposited where and as directed by the Engineer.

   The Contractor shall notify Mr. Larry Mountjoy at 612-673-5514 at least three working days in advance of hauling any material to storage.

   Any damage to the salvaged materials resulting from the salvage operation shall be repaired and replaced at the Contractor's expense.

3. Salvaged items shall be disassembled before being delivered to the City of Minneapolis as follows:
   - Salvaged Luminaires shall be removed from the luminaire mast arms before being delivered to the City of Minneapolis.
   - Banners and brackets shall be removed.
   - Fixtures shall be removed from street light poles.
   - Attachments such as cameras, wifi, and cellular equipment shall be coordinated with utility owners.
   - All other salvable items shall be removed and disassembled as directed by the Engineer.

4. Concrete pole foundations (light bases), conduit, and other items, deemed nonsalvagable by the Engineer, of the existing street lighting systems shall be removed and disposed of outside the right of way in any manner that the Contractor may elect subject to the provisions of MnDOT 2104.3C3 and as noted elsewhere in these Special Provisions.

5. Removal of Existing Underground Facilities

   All existing underground street light facilities will be removed under the site work activities. The Contractor shall perform removal of existing conduit, handholes, (pull boxes), cabinet foundations and pole foundations (light bases) during pavement and sidewalk removal. Removal of existing cable between lighting units shown on the Plans shall be performed by the Contractor prior to pavement and sidewalk removal. The removal of cable and handholes (pull boxes) shall be considered incidental to the lighting unit and conduit removal activity and no direct compensation shall be paid for this work.

6. The concrete pole foundations (signal and light bases) and the underground signal and lighting conduits include asbestos containing electrical conduits (Transite). The 3’ x 18” vertical pipe in handholes may also contain asbestos (Transite). Underground signal and lighting conduits that contains asbestos will have been encased in concrete at the

time of installation. For the procedure for handling and disposal of these asbestos-containing materials see the Asbestos Abatement located in Appendix A in Division SS.

7. The removal and salvage of in-place lighting units shall be measured on an each basis.

8. The provisions on MnDOT 1903 are modified such that no price adjustment will be made in the event of increased or decreased quantities for removing and salvaging existing systems.

K. As-Built Drawings

See the "Record Drawing Requirements" section of Division S for more information.

L. Final Lighting Systems Inspection

The Contractor shall not receive full payment for the installation of the lighting systems nor will the City take over maintenance responsibility for the lighting system until the City of Minneapolis performs a punch list inspection of the installed facilities and all noted discrepancies are corrected by the Contractor to the satisfaction of the City.

END OF DIVISION SL - LIGHTING SPECIAL PROVISIONS

DIVISION SS - SIGNALS SUPPLEMENTAL SPECIFICATIONS

SS-1 (2565) TRAFFIC CONTROL SIGNALS

A. This work shall consist of furnishing and installing all materials and electrical equipment to provide a new pre-timed, or semi traffic actuated, traffic control signal system at the following locations:

System A –
System B –
System C –
System D –
System E –
System F –
System G –

B. This work shall consist of removal and salvage of all or portions of in place traffic signal control systems from the following locations:

System A –
System B –
System C –
System D –
System F –
System G –

Removal and disposal of conduit and handholes with asbestos containing conduits (Transite) shall be paid in accordance with the "Method of Payment" included in these Specifications. The removal process is explained in Appendix A. The City of Mpls Traffic Department must receive copies of all transite waste haul manifests related to the project.

C. This Contract also includes work which consists of furnishing and installing an interconnect system between traffic control systems:

Interconnection of Systems "A-G" to each other, and removing and reinstalling interconnect to others signal systems as shown on the plans.

D. The following work to be completed by the "City of Minneapolis" shall consist of furnishing and installing, and removing and salvaging all materials and electrical equipment to provide temporary traffic signal control systems and modifications to systems "A", "B", "C", "D", "E", "F" and "G".

The Contractor shall notify the "City of Minneapolis" at least thirty (30) working days before the above work needs to be completed. The Contractor shall also notify the

"City of Minneapolis" at least five (5) working days before any modifications to the temporary traffic signals are needed.

This work shall be done in accordance with the applicable Minnesota Department of Transportation "Standard Specifications for Construction," 2018Edition.

SS-1.1 General

A. All applicable provisions of the current edition of the National Electrical Code shall apply in constructing the traffic control signal systems.

B. Reference to "the City" or "the City of Minneapolis" in these Special Provisions shall be interpreted to mean "the City of Minneapolis Traffic and Parking Services" or its designated representative.

C. City forces shall make all field lead connections in the City of Minneapolis furnished traffic signal cabinet at each System. The Contractor for this Contract shall label all cables and conductors in accordance with the field-wiring diagram at each System.

D. The City shall approve all foundation and loop detector locations before construction is commenced.

E. Construction operations in the proximity of utility properties must be performed in accordance with the provisions of MnDOT 1507, except the first paragraph is hereby deleted and the following substituted therefore:

> It is the Contractors own responsibility, prior to commencing work, to secure information and determine the exact location of any buried utility facilities as may exist, and to conduct operations in the vicinity of any such facilities in a manner that precludes damage thereto. The Contractor agrees to be fully responsible for any and all damages that might be occasioned by failure to exactly locate and preserve any and all underground utilities.

F. Coordinate all signal related construction work with the construction of the pedestrian curb ramps and sidewalks. Schedule placement of conduit, handholes, foundations, etc. to be coordinated with operations involving the construction of the area pedestrian curb ramps and sidewalks.

G. The Contractor for this contract shall be responsible for locating all Contractor installed underground facilities within or outside the project limits until acceptance of the completed project by the City.

H. The City shall review and approve all work performed by the Contractor prior to the Contractor requesting acceptance by the Engineer.

I. The Contractor's attention is specifically directed to the requirements of 2565.2A5 regarding the required in service warranty period for workmanship and materials.

J. At locations where temporary traffic control signal systems are specified:

Ensure that each existing traffic control signal system or a combination of existing and temporary equipment are kept in operation at all times, unless otherwise approved by the City for an existing traffic control signal system to be turned off to facilitate construction.

At locations where temporary traffic control signals system are not specified and existing signal systems will be off during construction:

The duration that an existing traffic control signal system is turned off must be approved by the City and shall not exceed six consecutive weeks unless otherwise authorized by the Engineer. A periodic project progress meeting will be scheduled with the City.

Contractor shall not turn off an existing control signal system without the specific approval of, and only in the presence of, the Engineer. Notify the Engineer at least one week in advance of scheduled turn-offs and before performing work on the existing traffic control signal system.

K. Provide to the Engineer and the City an electronic pdf file of manufacturer drawings capable of being stored on Mpls Traffic software for all items to be used from the MnDOT Approved/Qualified Products List and as contained in these specifications. Submit the manufacturer's drawings and any required warranty information at the project's Preconstruction meeting or as requested by the Engineer. Electronic drawings may also be submitted. All manufacturers' drawings must be approved by the City and by the Engineer prior to procurement by the Contractor.

Submit products showing compliance with contract documents. Review shop drawings for accuracy, completeness, and compliance with contract documents prior to submittal.

The Engineer's review and approval of shop drawing submittals does not relieve the responsibility for providing products that comply with the contract documents.

L. The Contractor must maintain pedestrian access on all corners of each intersection at all times unless specifically approved by the Engineer and the City. See Division S of these specifications for detail regarding the maintenance of traffic.

SS-1.2 Materials

A. Metal Conduit

Metal conduit shall be Rigid Steel Conduit (R.S.C.) and conduit fittings per MnDOT 3801 Intermediate Metal Conduit (I.M.C.) and conduit fittings are not permitted.

B. Non-Metallic Conduit

Non-metallic conduit (N.M.C.) and conduit fittings shall be Type II heavy-wall rigid PVC Schedule 40 plastic conduit and conduit fittings per MnDOT 3803. **A pull rope, approved by the City, shall be installed in each conduit along with each run for future use.**

C. Handholes

All handholes shall be Minneapolis Electrical Handholes which have metal rings and covers as shown in Minneapolis Standard Plate Nos. TRAF-1710 and TRAF-1715-R3 in the Plans and shall conform to the City of Minneapolis standards. Ring & Cover shall meet Tier 22 rating requirements (ANSI/SCTE 77-2007). A drain field shall be provided with each handhole. Concrete for supporting the metal ring and cover shall be Mix No. 3A32 or equal.

Handholes rings and covers shall be constructed from Class 30 Grey Iron, and left unpainted.

Existing handhole rings and covers that are to be relocated shall be cleaned and left unpainted.Do not reuse polymer concrete handholes and rings. Must be replaced by steel.

D. Anchor Rods

The Contractor shall furnish all required anchor rods, nuts, and washers in traffic signal pedestal concrete foundations and in mast arm pole foundations.

1. Minneapolis Mast Arm Foundation: Anchor rods, nuts, and washers in each mast arm pole standard concrete foundation shall conform to the City of Minneapolis standards; shall be galvanized the entire length of each anchor rod in accordance with the provisions of MnDOT 3392; and shall be four (4) sets in quantity (anchor rod, two nuts, and two washers) of the dimensions and configuration in accordance with the "Minneapolis Overhead Signal Foundation" (Minneapolis Standard Plate Nos. Traf-1120 and Traf-1130) in the Plans. All anchor rods required in each mast arm pole standard concrete foundation shall be either size 1.75 inches diameter by 71 inches long or 1.5 inches diameter by 68 inches long, as specified. See Minneapolis Standard Plate Nos. Traf-1072-R2 and Traf-1074-R2 in Plans.

2. Traffic Signal Pedestals: Anchor rods, nuts, and washers in each traffic signal pedestal concrete foundation shall conform to the City of Minneapolis standards; shall be galvanized at least the top 28 inches of each anchor rod in accordance with the provisions of MnDOT 3392; and

shall be three (3) sets in quantity (anchor rod, nut, and washer) of the dimensions and configurations in accordance with the "Minneapolis Signal Base Anchor Rod" detail in the Plans. All anchor rods required in each traffic signal pedestal concrete foundation shall be size 5/8 inches diameter by 40 inches long before bending. See Minneapolis Plate No. Traf-1140-R1.

3. Rust Inhibitor: Threaded portions of all anchor rods above the concrete foundations shall be coated with an approved rust inhibitor before installation of the mast arm pole standards, and traffic signal pedestals on the anchor rods.

E. Traffic Signal Electrical Cables And Conductors

1. The provisions for electric cables and conductors of MnDOT 2565.3J and MnDOT 3815 are modified as follows. The required electrical cables to Xcel's feed points shall be furnished and installed by the Contractor and shall be the size as required by the power company.

2. Detector Lead-in Cable: Detector lead-in cable shall meet the requirements of the International Municipal Signal Association (IMSA) Specifications 50-2, latest revision thereof for polyethylene insulated, polyethylene jacketed loop detector lead-in cable. All conductors shall be #14 A.W.G. unless otherwise specified on the Plans.

3. Signal Control Cable: The multiple conductor control cables for traffic control signals shall meet the following specification. This specification describes multi-conductor Type TC Tray Cable insulated with FR-XLP flame-retardant cross-linked polyethylene and PVC jacketed overall, for use on circuits rated 600 volts at 90 degrees C maximum continuous conductor temperature in wet or dry locations. The cables shall be approved for installation in cable trays in accordance with Article 340 of the NEC and also for use in Class 1 remote control and signaling circuits per Article 725-11(b) of the Code. Cable shall be approved for installation in open air, in ducts or conduits, in tray or trough, and be suitable for direct burial.

Applicable Standards

a. The following standards shall form a part of this specification to the extent specified herein:

- Underwriters Laboratories Standard 1277 for Type TC Power and Control Tray Cables.
- Underwriters Laboratories Standard 44 for Rubber Insulated Wires and Cables.

- ICEA Pub. No. S-66-524, NEMA Pub. No. WC7, Cross-linked-polyethylene-insulated Wire and Cable.
- ICEA Pub. No. S-73-532, NEMA Pub. No. WC57, Control Cables
- IEEE Standard 1202 - Flame Testing of Cables for Use in Cable Tray in Industrial and Commercial Occupancies.

b. Conductors

Conductors shall be Class B stranded uncoated soft copper conforming to Part 2 of ICEA. Conductor sizes shall be 14 AWG. A non-hygroscopic separator may be used over the conductors at the option of the manufacturer.

c. Insulation Compound:

Each conductor shall be insulated with FR-XLP flame-retardant chemically cross-linked polyethylene, meeting the requirements of ICEA S-66-524, Par. 3.6, ICEA S-73-532, Table 3-2 (Type I-XLPE) and Type XHHW-2, VW-1 requirements of Underwriter's Laboratories.

- Thickness: The average thickness of insulation shall be 30 mils. The minimum thickness at any point shall be not less than 90 percent of the specified average thickness.

d. Circuit Identification

Circuit identification shall consist of Method 1 color coding for National Electrical Code applications in accordance with ICEA S-73-532, Appendix E, Table E-2. Cables shall contain the following color coding for individual conductors: 1-Black, 2-White, 3-Green, 4-Red, 5-Blue, 6-Orange, 7-Yellow, 8-Red w/Black tracer, 9-Blue w/Black tracer, 10-Orange w/Black tracer, 11-Yellow w/Black tracer, 12-Black w/White tracer. **Tracers shall be spiral bands on opposite sides of each conductor.**

e. Assembly

The insulated color-coded conductors shall be cabled together with non-hygroscopic fillers, when necessary to make round. Fillers shall not be jute or paper. The cable assembly shall be covered with a suitable tape applied with a 10 percent minimum lap.

f. Overall Jacket

- Compound: Each cable shall have a PVC protective jacket applied over the assembly. The jacket shall meet the requirements of Part 4 of ICEA S-73-532, Table 4-2, and the Sunlight Resistant requirements of UL Standard 1277.

- Thickness: The average jacket thickness shall be in accordance with UL Standard 1277. The minimum thickness at any point shall be not less than 80 percent of the specified average thickness.

g. Surface Marking

Cables shall be clearly identified by means of surface ink printing indicating: Manufacturer, Type TC, (UL), 600V, 12 conductors, #14, XHHW-2 (or 90 degrees C) Conductors, Sunlight Resistant, Direct Burial, E57349, and have length markings approximately every meter.

h. Tests

- Individual conductors and completed cables shall be tested in accordance with UL requirements for Type TC Power and Control Tray Cables having XHHW-2 VW-1 insulated conductors.

- Cables shall be capable of passing the ribbon burner cable tray flame test requirements of UL and IEEE Standard 1202.

4. Signal Head Wire: All circuit wiring from the signal base or transformer base to the traffic signal vehicle and pedestrian indications in pedestal and mastarm poles shall be 1/C#14 AWG solid copper wires with XHHW rating. The conductors shall have insulation color coded in accordance with Minneapolis Plate No's. Traf-1560-R1, Traf-1566-R1, Traf-1578 and Traf-1584.

5. Mast Arm Head Cable: All circuit wiring from the transformer base to the traffic signal vehicle indications mounted on the mastarm of a mastarm pole shall be a Type-TC □□ degree 600 volt cable composed of 7-□/C#14 AWG THHN/THWN stranded copper wires in a sunlight resistant direct burial jacket. The conductors shall have insulation color coded in accordance with Minneapolis Standard Plate Nos. Traf-1560-R1 and Traf-1566-R1 (ICEA Method 1, Table E-1).

6. Loop Wire: Wire used for inductive loops shall be single conductor No. 14 AWG standard copper insulated with filled chemically cross-linked polyethylene (XLP) and be constructed in accordance with IMSA Specification 511 with a polyvinyl chloride tube.

Roadway loop detector conductors shall be one of the following or City of Minneapolis approved equal.

- Model DSI-116S Loop Detector Wire as manufactured by Detector Systems, Inc., 11650 Seaboard Circle, Stanton, California 90680;

- Model 1419-XLP-TUBE as manufactured by Kris-Tech Wire Co., Inc. 921 Seneca Street, P.O. Box 4377, Rome, New York 13440-4377;

- Model 320095 Power Loop as manufactured by Tamaqua Cable Products Corporation, P.O. Box 347, Schuylkill Haven, Pennsylvania 17972.

The roadway loop detector conductors shall be approved by the Engineer before procurement.

7. Single Conductor Wires: The single conductor feeder wires, and control wires shall have Class B stranded annealed uncoated copper conductors and be listed by UL as Type RHW-2/USE-2, 90 degree C, crosslinked polyethylene insulation rated 600 volts in accordance with Article 338 of the National Electrical Code. Cable shall meet the requirements of ICEA Publication No. S-66-524, NEMA Pub. No. WC7 for Crosslinked Polyethylene-Insulated Wire and Cable, and UL Standard 854 for Service Entrance Cables. Wires shall bear UL label for Type USE-2, have footage markings approximately every meter, and surface marking indicating manufacturer's ID, conductor size and metal, voltage rating, UL symbol and type designations. **The insulation on each conductor shall be colored red, black, green, or white in accordance with the color-coding shown in the construction plan and/or standard plates. The wires shall be twisted in a planetary wrap with a consistent length of lay as per ICEA S-95-658.**

8. EVP Confirmation Light Cable: Wire used for powering EVP confirmation lights shall be 2/c #14 W/GRD conforming to the requirements of International Municipal Signal Association, Inc., Specification No. 50-2 1984, Polyethylene Insulated, Polyethylene Jacketed Loop Detector Lead-In Cable.

9. Optical Detector Cable:

   Optical detector cable shall be in accordance with the provisions of MnDOT 3815.2C5.

F. Mast Arm Pole Standards

The provisions of MnDOT 3831 are modified as follows for Minneapolis Style Equipment:

Each mast arm pole standard shall consist of a transformer base, a vertical pole shaft, a traffic signal upper cantilever mast arm, provisions for a lower mast arm for sign support, and (if specified in the Plans) a luminaire vertical pole shaft extension with davit-type mast arm and a lower sign arm.

Each mast arm pole standard shall be designed and constructed in accordance with the requirements of the 1994 edition of the "Standard Specifications for Structural Support for Highway Signs, Luminaires and Traffic Signals" as published by the American Association of State Highway and Transportation Officials."

The transformer base shall be stainless steel, constructed in accordance with details shown in the Plans, and be a square transformer base style complete with access hole and door. The access hole shall provide an opening of at least 100 square inches on one side of the base and shall be provided with a door having positive closure. The locking mechanism shall be an integral part of the door.

The extended end of each traffic signal mast arm shall have a 2-3/8 inch outside diameter slipfitter and signal mounting plate welded to the end in accordance with the details in MnDOT Standard Plate No. 8123E for attaching one-way or two-way mast arm signal head mounts.

Attachment of the traffic signal upper and/or lower cantilever mast arm to the vertical pole shaft shall be by high strength bolts and nuts.

Each mast arm pole standard shall be the City of Minneapolis design, as shown in the detail section of the Plans.

Each individual mast arm pole standard shall be constructed to the traffic signal mast arm length, luminaire mast arm length, and luminaire mounting height as specified in the Plans.

The Contractor shall furnish to the Engineer, for approval, electronic pdf file of shop detail drawings of each type of mast arm pole standard in accordance with the provisions of MnDOT 2471.3B. The shop detail drawings shall indicate all member materials and dimensions, section modulus of all main component parts, and other pertinent data and calculations. The shop detail drawings shall be identified by "City of Minneapolis" and the fabricator. The City of Minneapolis Traffic and Parking Services shall approve shop drawings.

A shop coat of primer and finish paint shall be applied to the outside surfaces of each mast arm pole standard, mast arm, luminaire extension and transformer base.

G. Traffic Signal Pedestals

The provisions of MnDOT 3832 are modified as follows:

Each traffic signal pedestal shall consist of a pedestal base with access door opening; pedestal shaft; three tie rods; and a pedestal slipfitter collar with signal bracketing and pipe fittings in accordance with City of Minneapolis standards. Each pedestal slip fitter collar shall have four (4) 1.5 inches diameter threaded side openings spaced 90 degrees apart with unused openings plugged with gasketed, threaded caps.

The overall length of each installed traffic signal pedestal shall be 10 feet.

H. For assembly information for the City of Minneapolis traffic signal pedestal, see Minneapolis Plate No. Traf-1266-R1 in the Plans.

I. Pedestrian Push Button Stations, Pedestrian Push Buttons, and Pedestrian Instruction Signs

Each new pedestrian push button station shall consist of a concrete foundation, a 4-inch diameter standard spun aluminum pipe with aluminum dome pipe cap, and a standard APS push button pole base, all conforming to the City of Minneapolis standards. See Minneapolis Standard Plate No. Traf-1260-R5.

All pedestrian push buttons required by the Plans shall be in accordance with the provisions of MnDOT 3833 and the following:

1. The Contractor shall furnish to the Engineer, for approval, electronic pdf file of shop drawings and specifications. The proposed push button assemblies shall be ADA-compliant and subject to approval by the City of Minneapolis Traffic and Parking Services. The pdf shall be distributed by the Engineer as follows:

2. City of Minneapolis Traffic Division A pedestrian instruction sign shall be furnished to the Contractor by the City for installation with each pedestrian push button installation in accordance with the provisions of MnDOT 3833.

I. Accessible Pedestrian Push Buttons and Signs

Pedestrian push button installation shall be in conformance with the MnDOT Standard Specifications for Construction 3833 modified as follows:

1. Pedestrian push buttons shall be installed on mast arm pole shafts, pedestal shafts, light pole shafts or be a separate mounting in conformance with MnDOT APS Push Button Mounting Detail or ADA Pedestrian Station Detail. These Details can be found on the Office of Traffic, Safety, and Operations (OTSO) WEB site for Traffic Signals:

   http://www.dot.state.mn.us/trafficeng/signals/index.html

2. Each push button shall be located by the Engineer in the field to allow easy access for the pedestrian.

3. The Contractor shall supply the APS system in full, including push buttons, control boards, central control units, configurators, and any other equipment needed to provide the APS system. Approved APS systems are listed on the MnDOT Approved/Qualified Products Lists WEB site for Signals:

   http://www.dot.state.mn.us/products/index.html

   The Contractor shall insure the order form below is presented to the Accessible Pedestrian Signal (APS) manufacturer so the appropriated Braille message will be added to the pedestrian information sign and the correct voice messages will be programmed in the pedestrian push button stations.

The Contractor shall provide digital files containing the custom voice messages to Minneapolis Traffic staff.

Accessible Pedestrian System (APS)

ORDER FORM
(Fill out one form per intersection)

Intersection:

Total Qty of Pedestrian Push Buttons:_____

Control Board: One needed for each intersection **Qty_____**

CCU: (Central Control Unit) One needed for each intersection **Qty_____**
CONFIG: (Configurator) One needed for each intersection **Qty_____**

Push Button and Sign Braille Information

Button	**Arrow Direction R/L**		**Street Name** (Street Being Crossed)
PB2-1		PB2-1	
PB2-2		PB2-2	
PB4-1		PB4-1	
PB4-2		PB4-2	
PB6-1		PB6-1	
PB6-2		PB6-2	
PB8-1		PB8-1	
PB8-2		PB8-2	

Custom Voice Message Details

Voice on Location and Walk Message(s) Please give phonetic pronunciation on difficult street names so that the message will be recorded correctly.

*Note that unless Street, Drive, Avenue etc…are absolutely necessary for intersection identification, it is recommended to not include them in the verbal message.

PB2-1

Wait Message:

Wait to Cross _____ **at** _____
(Street Being Crossed) (Intersecting Street)

Walk Message:

_____ **Walk sign is on to cross** _____
(Street Being Crossed) (Street Being Crossed)

PB2-2

Wait Message:

Wait to Cross _____ **at** _____
(Street Being Crossed) (Intersecting Street)

Walk Message:

_____ **Walk sign is on to cross** _____
(Street Being Crossed) (Street Being Crossed)

PB4-1

Wait Message:

Wait to Cross _____ **at** _____
(Street Being Crossed) (Intersecting Street)

Walk Message:

_____ **Walk sign is on to cross** _____
(Street Being Crossed) (Street Being Crossed)

PB4-2

Wait Message:

Wait to Cross _____ **at** _____
(Street Being Crossed) (Intersecting Street)

Walk Message:

_____ **Walk sign is on to cross** _____
(Street Being Crossed) (Street Being Crossed)

PB6-1

Wait Message:

		at	
	(Street Being Crossed)		
Walk Message:			
		Walk sign is on to cross	
	(Street Being Crossed)		(Street Being Crossed)

PB6-2

Wait Message:			
Wait to Cross		**at**	
	(Street Being Crossed)		(Intersecting Street)
Walk Message:			
		Walk sign is on to cross	
	(Street Being Crossed)		(Street Being Crossed)

PB8-1

Wait Message:			
Wait to Cross		**at**	
	(Street Being Crossed)		(Intersecting Street)
Walk Message:			
		Walk sign is on to cross	
	(Street Being Crossed)		(Street Being Crossed)

PB8-2

Wait Message:			
Wait to Cross		**at**	
	(Street Being Crossed)		(Intersecting Street)
Walk Message:			
		Walk sign is on to cross	
	(Street Being Crossed)		(Street Being Crossed)

J. Service Equipment for Signal System

The electrical service point for each signal system is shown on the Plans. The service points shown are approximate; the exact locations will be determined in the field by the Power Company and the City. See signal plan Equipment Schedule for specific service cabinet requirements at each service point.

The electrical contractor is responsible for coordinating the turn on of all permanent electrical services with the City of Minneapolis Traffic and Parking Services Division (TPS) and Xcel Energy. After State of Minnesota electrical inspection and approval of each metered electrical service location and after notification is provided to the TPS Electrical General Foreman (612-673-5759), the City will submit an application for electrical connection and meter installation to Xcel Energy.

1. Pad Mount Signal/Lighting Service Cabinet

The service cabinet shall be constructed in accordance with City of Minneapolis Standard Plate Nos. Traf-3500 and Traf-3631-R3 and the following:

a. The cabinet enclosure (physical enclosure only) shall be UL listed with the UL label affixed to the inside of the cabinet, and shall carry a NEMA 3R rating to provide a degree of protection against rain, sleet, snow, and dripping water.

b. Each cabinet shall be free of flaws, cracks, dents and other imperfections.

c. All surfaces shall be smooth and clean.

d. All seams and joints shall be smooth and even, without cracks, air leaks or pinholes with no sharp or jagged edges.

e. All interior attachments to the cabinet exterior sheet metal shall be welded (i.e. no through bolts).

f. There shall not be any sheet metal attached externally to the cabinet shell.

g. The design, workmanship and attachment of the one-piece panel boards and dead fronts shall be a secure and aligned containment for the circuit breakers. The one-piece panel board and dead fronts shall be stamped with easily removable blank breaker cutouts to match the full capacity of the breaker panel. The panel board breaker cutouts shall precisely match the containment provisions of the breakers.

h. The screws for attaching the cabinet dead fronts shall be of a permanent capture design to prevent lost and misplaced screws. Attachment of the dead fronts to the cabinet shall be accomplished using threaded inserts and offset cam cylinder latches.

i. Contactors shall be normally open, NEMA rated, AC lighting contactors rated 277/480 volts with a 120-volt, 60 Hz coil, and contacts rated for 60 ampere tungsten filament load. Contactors shall be double lugged with the double lugs on the contactors installed such that field wires shall be connectable on the front lugs of the contactor. Contactors shall be installed vertically in the cabinet. Contactors shall have a positive gravity release. Contactors shall have an (off or on) condition display mechanism.

j. The service cabinet shall have one 100 amp two-pole thermo-magnetic circuit breaker as a main breaker and single pole thermo-magnetic circuit breakers as branch breakers on each circuit panel.

k. The Vendor shall furnish and install the following in each service cabinet:
- Two (2) **200 amp meter sockets** with disconnect.
- One (1) bracket mounted single pole test switch rated 15 amperes at 125 volts.
- Two (2) 60 amp two pole contactors.
- 15 amp and 60 amp circuit breakers as indicated on details. All 60 amp multi-wire branch circuits shall have Schneider Electric / Square D QO1HT Handle Ties.
- One (1) photoelectric cell.
- Two (2) 12 circuit panels.
- Power distribution terminal block.
- Current limiting protector w/JJN-125 class T fuses
- One (1) 120v 15/20 amp GFCI Convenience receptacle

l. The photoelectric cell shall have normally open contacts rated 15 amperes. The photo control shall be installed within the lighting service cabinet. It shall be bracket mounted immediately behind a Plexiglas covered hole. The hole shall be located on the side of the cabinet. The hole size and location shall be as shown on the service cabinet detail. Mounting shall be as directed by the Engineer. The photoelectric control shall be in accordance with the MNDOT 3812 and have a minimum 30-second time delay capability.

m. The electric meters shall be installed within the service cabinet as shown in the details. The electric meter sockets shall be suitable for single phase, 3 wire, 120/240 volt service with a utility approved manual bypass switch. The Utility Company will provide the electric meters. Sockets shall be provided and installed by the vendor. The placement of the meter socket and meter, door lock, and the viewing window shall permit the door to be closed, and the meter to be read electronically from outside the cabinet.

n. Each cabinet shall have an anodized etched finish (Aluminum Association C22) with an Architectural Class 1 (Aluminum Association A42) hard coat finish of at least 0.7 mil. Finish color shall be 30 minute clear aluminum as directed by the City.

o. Locks shall be furnished and installed by vendor. Locks shall be keyed for a standard No. 2 traffic signal key.

p. Cabinet lifting provisions shall meet the UL requirements for the NEMA 3R cabinet. The lifting provisions shall consist of aluminum lifting ears mounted to extend above the top of the left and right sides of the cabinet enclosure, allowing a bar or hooks to be inserted through both ears for lifting the cabinet. The lifting ears shall have a lifting capacity equal to the weight of the completely wired cabinet plus 25 percent, 500 pound capacity minimum. Each lifting ear shall have a 1 inch hole, the bottom of which shall be flush with the top of the cabinet or less than 3/8 inches above the top of the cabinet. The top of the lifting ear shall extend no more than 2 to 2 & 1/8th inches above the top of the cabinet at the point where the ear is attached. The lifting ears shall be centered on the cabinet side walls such that the cabinet will not pitch or tilt when lifted. The lifting ears shall be secured to the cabinet by means of stainless steel bolts, allowing the ears to be inverted. The positioning of items mounted inside the cabinet shall not restrict access to the bolts. Ship the cabinets with the lifting ears in the up position. See detail drawing of the "Lifting Ears".

q. No company's logo and/or advertising shall be placed on any part of the cabinet exterior.

r. The contractor shall be responsible for creating and installing arc flash warning labels. These labels shall meet the requirements of section 110.21(B) of the National Electric Code (NEC) and NFPA 70E Standard for Electric Safety in the Workplace.. Contractor is responsible for obtaining all relevant information from Xcel Energy to perform the required calculations.

2. Temporary Pole Mount Signal/Lighting Service

The pole mount signal/lighting service shall be as shown on City of Minneapolis Standard Plate No. Traf-3520.

3. Service Lateral

Service laterals shall be as shown on City of Minneapolis Standard Plate No. Traf-3510. Conduit type & size shall be as shown on the plans.

In addition to the above the following requirements for electrical service connections to each signal system as detailed below shall apply:

- Power shall be obtained from a service lateral on a power company wood pole, ground mounted transformer, or other source as noted in the Plans (Contractor shall field verify power source).
- All service equipment, conduit, and power conductor wiring shall be replaced for all locations where signal systems previously existed and are being revised.
- When service feeds for Signal Systems are to be provided from an existing signal/street light service cabinet, the Contractor shall provide a connection to the service cabinet and all necessary cable, conduit and install any necessary circuit breakers.
- Service feeds for operating temporary signal systems shall not be disrupted until the newly constructed systems are ready to be made operational.

K. Terminal Blocks

The provisions for terminal blocks of MnDOT 2565.2JJ are modified as follows. The referenced terminal block terminals and screws shall be **nickel-plated brass** and be Kulka 603 series or equivalent. Wire lugs for terminal block connections shall be non-insulated and oversized for #10/12 THHN for #14 signal wire connections. Use Thomas&Betts Sta-kon 4 terminal C115 or city approved equal. **Do not use lugs in solid wire applications.**

L. Vehicle Signal Faces – Polycarbonate

1. Signal Indications:

All "Red", "Yellow", and "Green" signal indications shall utilize light-emitting diode (LED) units. MnDOT approved LED units are listed on the MnDOT Qualified Products List on the Office of Traffic, Safety, and Operations (OTSO) WEB site for Traffic Signals:

http://www.dot.state.mn.us/products/index.html

2. The provisions of MnDOT 3834 (ITE Vehicle Signal Faces) are modified as follows:

The housings, housing doors, tunnel-type visors, lenses, and background shields of new vehicle signal indications and faces mounted on the traffic signal upper cantilever mast arms shall be fabricated from polycarbonate resin material in accordance with the latest issue of the ITE standard for Adjustable Face Vehicular Traffic Control Signal Heads. The housings shall be one piece with the front, sides, top, and bottom integrally molded. Each vehicle signal face shall be sectional with separate adjustable housing for each vehicle signal indication. The housings, housing doors, visors, and background shields on overhead mast arms and on vertical pole shaft and pedestal-mounted signals shall be black in color. The color shall be completely impregnated in the resin material and scratches shall not expose uncolored material.

a. The LED unit shall be sealed with a one-piece neoprene or EPDM (Ethylene, Propylene, Diene Monomers) gasket and shall be watertight.

b. A.C. or D.C. voltages at the input terminals of the LED indication shall be below 15 volts within 200mS after removing power. The indication shall work with a conflict monitor utilizing NEMA plus functions, specifically DUAL INDICATION.

Background shields shall only be installed with overhead mast arm mounted signals unless otherwise noted in the plans.

All vehicle signal faces with LED indications shall be approved by the City prior to procurement.

Support plates shall be furnished with each overhead mast arm mounted vehicle signal face to distribute stresses evenly over the ends of the vehicle signal face. Also, a plumbizer adapter in conformance with MnDOT Standard Plate No. M8124E shall be furnished with each overhead mast arm mounted vehicle signal face. Support plates and plumbizer adapters shall be black in color.

For each LED signal indication, the Contractor shall submit to the Engineer, for approval, four copies of all warranty information indicating the required 6-year warranty period **(from date of installation)**, product invoice, and documentation indicating name of manufacturer, model number, and serial number . The four copies shall be distributed by the Engineer as follows:

- City of Minneapolis Traffic Division (2 copies)

For all LED signal indications, the manufacturer shall provide the following warranty provisions:

a. Replacement or repair of an LED signal module that exhibits a failure due to workmanship or material defects within the first 72 months of field operations.

b. Replacement or repair of "RED", YELLOW and "GREEN" LED signal modules that fall below the requirements for ITE

The Contractor shall, to the satisfaction of the Engineer, affix to the back of each "LED" signal indication a permanent label, or permanently marked (utilizing a "oil based paint marker") with the actual date of installation. The oil based paint marker shall be a contrasting color to ensure that the date can be easily read.

M. Programmable Vehicle Signal (Special Signal Faces)

This defines minimum standards for product performance and composition relating to 12 inch LED Programmable Vehicle Signal Heads, hereinafter referred to as PSH.

1. General

The PSH shall provide an indication to the field of view providing a visibility zone of red, yellow and green, without requiring louvers or other external blocking devices to achieve the end result. No indication shall result from external illumination nor shall one section illuminate another. The housing/sections shall be weatherproof and dust-tight. The signal shall display indications of red, yellow, and green - balls or arrows. The PSH when configured shall operate directly from 120-volt, 60 Hz power source. All PSH components including lenses, reflectors, wiring, and materials used in the construction of PSH assemblies shall meet or exceed all applicable ITE Specifications with exceptions outlined in these specifications.
Each PSH shall be provided with a black single piece metal background shield.

2. Construction

A. Color

The exterior of each signal housing shall be colored BLACK with a lusterless finish. External color of the housing shall be

completely impregnated in the resin material so that scratches will not expose uncolored material.

B. Housing

Each housing section shall be manufactured with cast aluminum, type 360, reduced corrosion, and increased powder coat adhesion. Housing shall be reinforced with ribs on top and bottom for extra rigidity. Dimensions 13.3" H x 13.3" W x 18.0" D (1 section).

C. Door Assembly

The door hardware shall consist of stainless steel door roll pins and eye bolt/wing nut assemblies. Access shall be provided with one (1) front door and one (1) rear door. The doors shall be moisture proof. A dust tight neoprene gasket shall be fitted to the gasket channel cast in the door perimeter.

D. Optic Lens

The lens shall be acrylic and colored to ITE specifications. The 12 inch dome shall have a diameter between 11-15/16 (11.9375) inches and 12 1/32 (12.03125) inches. The lens shall diffuse the light emanating from the LED's to provide light disbursement across the outer dome. In no instance shall individual LED's be visible in the field of vision when the signal section is energized. The PSH shall be designed to allow the light output through the lens to be directed or steered into a specific viewing zone.

3. Programming

Each programmable signal head shall be capable of being individually addressed and programmed. Programming shall be accomplished through the use of a Fresnel lens and a smaller clear lens. The directional beam shall be focused by masking off portions of the smaller lens which controls the signal faces each lane sees when approaching the signal. The signal section shall be able to tilt in two degree increments up to ten degrees below the horizontal axis while still maintaining a common vertical access. All required masking equipment shall be included.

4. Environmental

The PSH, when assembled, shall be weather-proof and dust tight. The PSH shall operate over the temperature range of -34 degrees "F" to +165 degrees "F" (-37 degrees "C" to +74 degrees "C").

5. Identification

Each PSH shall be marked with the manufacturer's name. Each PSH LED module shall be identified by a manufacturer's serial number for warranty purposes.

6. Warranty

Manufacturer shall warrant the PSH, to be free from defects in material and workmanship for a minimum of 5 (five) years from date of shipment from the manufacturer. Warranty shall cover repair or replacement of defective parts only, and shall be at the discretion of the manufacturer.

N. Pedestrian Signal Faces with Countdown Timers - Polycarbonate

Each pedestrian signal indication of each pedestrian signal face shall be a single section. The size shall be nominal 16 inch x 18 inch as called for in the Plans and the indication shall utilize the international hand and walking person illuminated message and countdown timer. Each pedestrian signal face housing, housing door, and visor shall be black in color. The color shall be completely impregnated in the resin material and scratches shall not expose uncolored material.

1. Housing

Unused mounting holes shall be plugged to provide a watertight seal. A plug shall be provided for the bottom-mounting hole which the pedestrian signal shall have mountings to properly fit brackets made of 1.5-inch pipe. The openings shall have a common vertical centerline through the housing to permit 360-degree rotation of the mounted pedestrian signal. The bottom and top opening shall be provided with a serrated ring, which shall permit indexing and locking of the signal in 5-degree increments throughout the entire 360 degrees of rotation when used with serrated brackets or fittings. The mounting brackets shall serve as the electrical conduit for the pedestrian signal.

No terminal blocks are to be used in pedestrian heads. Use wire nut splices as the approved method.

2. Visor

Each signal head shall have a removable tunnel type visor for each signal indication. The visor shall be fabricated from black polycarbonate resin material and shall encompass the entire top and sides (bottom open) of the pedestrian signal face. The visor shall be designed to fit tightly against the door so as to prevent any perceptible filtration of light between the door and the visor. The top of the visor shall have a downward tilt of approximately 3-1/2 degrees. The length of the visors shall be a minimum of 9 inches with all sides of the visor approximately the same length. Visors shall be secured by at least six stainless steel screws.

3. Optical Unit

The pedestrian indications module with countdown timer shall utilize light-emitting diode (LED) units and shall be listed on the MnDOT Qualified Products List on the Office of Traffic, Safety, and Operations (OTSO) WEB site for Traffic Signals:

http://www.dot.state.mn.us/products/index.html

a. Module shall be constructed for installation within the signal housing assembly without any modification to either the housing assembly or the LED module.

b. Each unit shall be labeled with the manufacturers trademark, identification number, voltage rating and up arrow indication.

c. Insulation displacement connectors shall not be used.

d. Under no circumstances shall a "Walk" indication supersede a "Don't Walk" indication when any amount of voltage is applied to both inputs.

e. The LED unit shall include a one piece neoprene or EPDM (Ethylene, Propylene, Diene Monomers) gasket which shall make an assembled housing and LED module watertight.

f. A.C. or D.C. voltages at input terminals of the L.E.D. shall be below 15 volts within 200ms after removing power. The indication shall work with a conflict monitor utilizing N.E.M.A. plus functions, specifically DUAL INDICATION.

g. Each module shall have one opening located in each of the four corners to secure the module to the housing assembly door.

h. Each LED module shall:

Use wire nuts instead of terminal strips in LED heads.

The manufacturer shall provide the following warranty provisions:

- Housing

Assemblies furnished shall be guaranteed to be free from electrical, mechanical, or structural defects for a period of 18 months from the date of delivery, and any such defects developing within warranty period shall be remedied free of all expense to the City.

- LED modules shall have a minimum 6-year (72-month) warranty period from the date of installation. The warranty shall cover the replacement cost including the price of the unit and shipping. This warranty shall cover the replacement or repair of any LED signal module that exhibits a failure due to workmanship or material defects or falls below the minimum intensity levels.

- The Contractor shall, to the satisfaction of the Engineer, affix to the back of each pedestrian signal indication a permanent label or permanently marked (utilizing an "oil based paint marker") with the actual date of installation. The oil based paint marker shall be a contrasting color to ensure that the date can be easily read.

4. Painting

All surfaces of the pedestrian signal housing and housing door shall be black in color. All surfaces of the visor shall have a dull non-reflective black finish.

The color shall be completely impregnated in the polycarbonate resin material of the molded parts such that scratches will not expose uncolored material. Color to be approved by the City prior to manufacture.

5. Manufacturer's Drawings, Specifications, and Sample Unit

The Contractor shall submit to the Engineer for approval by the City one (1) module and electronic pdf file of manufacturer's drawings and specifications of the pedestrian signal face. The supplier shall also provide at the time of submission of unit for approval written certification in the form of independent test results that the pedestrian indication equipment to be supplied meets or exceeds ITE performance requirements for intensity and color.

The Contractor shall also submit to the Engineer, for approval by the City, electronic pdf file of all warranty information, a Manufacturers' Certificate of Conformance to this specification, and all other pertinent manufacturer data. As part of the pertinent manufacturer data, the Contractor shall include the product invoice.

The Engineer shall distribute electronic copies of the above documents as follows:

- City of Minneapolis Traffic and Parking Services

6. Inspection

The pedestrian signal shall be approved by the Engineer prior to procurement by the Contractor.

O. Luminaires on Signal Poles

The luminaires located on the luminaire extension on mast arm signal poles shall be furnished and installed under the signal portion of the Contract. All work related to luminaires installation on street light poles shall be furnished and installed under the street lighting portion of the contract. The luminaire fixture and slipfitter are described in the Lighting portion of the Special Provisions.

All circuit wiring to streetlight poles that are utilized as traffic signal standards shall be furnished and installed under the lighting portion of the Contract. Wiring from the transformer base to the luminaire (2-1/c#12 AWG stranded wires with THHN/THWN rating) shall be furnished and installed under the signal portion of the Contract. One conductor shall have insulation colored black, and the other shall have white colored insulation.

Street lights shall be fused in accordance with Plan details. Fuses and fuse holders shall be "UL" listed. Fuse holders shall be Homac Ferraz-Shawmut in-the-line waterproof FEB-11-11 with a Type SLK-6FSB-1 waterproof boot with and a Bussman BAF-10 single element fuse, or Cooper Bussmann, Inc. HEB-AW-RLC-A, and a Bussman BAF-10 single element fuse, or City of Minneapolis approved equal.

If the signal system is adjacent to a street lighting system, the luminaires shall be tied into the street lighting circuit using Minneapolis standard #4 combo wire. If there is no adjacent street lighting, luminaires shall be powered by 3/c#12 type UNTC cable controlled by photo eye.

P. Concrete Foundations/Bases

Concrete for all foundations shall be Mix No. 3Y43 free of chloride additives, placed and consolidated using vibratory equipment. All square foundations shall be broom finished on all sides and edged with a ½" edger. All round foundations shall be chamfered with a ½" radius edger and broom finished on top, all in accordance with the provisions of MnDOT 2565.3F. Concrete shall be allowed to cure for a minimum of seven (7) days before being placed into use unless otherwise permitted by the Engineer. Overhead pole bases shall include (2) 3" conduits for signal wire and (2) 2" conduits for present or future streetlight connections.

Q. Intersection Controller and Cabinet

The City will furnish and install all traffic signal controllers and cabinets complete with all internal control equipment, including Contractor furnished EVP & Video Detection equipment (if required in the plans), for use on this project at each system.

R. Availability of Materials

Push button poles and bases and Minneapolis Standard fluted pedestal signal poles and bases that meet the requirements of these Special Provisions are available and may be purchased from the Minneapolis Traffic and Parking Services, depending upon the timeliness of the order, and availability of the material in City stock. Contact the Traffic Stores office at 612-673-5750.

SS-1.3 Construction Requirements

A. Staging

The Contractor shall provide proposed staging plan for all revised signal system and pedestrian curb ramp work at each intersection to the Engineer for approval prior to commencing work, and shall plan his work accordingly.

B. Conduit Placement

Where N.M.C. conduits are required to be placed underground below roadway surface areas that are to be reconstructed with bituminous or concrete pavement, the N.M.C. conduit shall be placed and backfilled (if trenching method used) and compacted to the satisfaction of the Engineer before any new pavement is placed.

Exposing existing utilities and surface restoration shall be considered incidental to the work required to provide a complete conduit system installation.

The Contractor shall install red City of Minneapolis Traffic and Parking Services marking tape for marking underground transportation utilities at a distance of 6 inches above all new conduit placed by the trenching method. The required marking tape shall be purchased by the Contractor at the City of Minneapolis Traffic and Parking Services Office, 300 Border Avenue North. Provision and installation of the marking tape by the Contractor shall be considered incidental work to furnishing and installing the conduit.

Existing conduit to be reused as part of a revised permanent signal system (as shown in the Plans) shall be reused in accordance with the provisions of MnDOT 2565.3D5.

1. Extension of Conduits: The Contractor shall provide a continuous length of conduit of size and type noted on the Plans between the specified terminal points.

2. Installation of Conduit into Handhole: Conduits shall be installed into handholes by use of a hole saw to cut through the handhole wall. Areas surrounding conduit entrances shall be sealed by filling them with mortar. Conduits shall be installed entering handholes through the sidewalls of the handholes, not through the bottom gravel foundation. Conduits shall extend a minimum of 2 inches and no more than 3 inches into the handhole.

3. Connection to Existing Conduits: The Contractor shall locate the ends of existing conduit as shown on the Plans and extend the conduit to handhole, signal base, etc., which is to be built by the Contractor.

Existing conduit shall be cut perpendicular to conduit and exterior surface cleaned to form secure connection to extension.

4. Installation of Conduits: The conduits shall be installed a maximum of 12 inches from the back of the curb, as shown in the Plans or as directed by the Engineer. Except as required to bypass foundations, the base on which the curb is placed shall not be disturbed. All conduits installed across newly surfaced streets shall be installed at a minimum depth of 24 inches or as directed by the Engineer.

   Where existing sidewalks, pavement, or streets are opened, the opening shall be refilled to the original thickness using material equal to that removed, and the surface restored. In sidewalk areas whole panels shall be removed and replaced unless a utility joint exists in which case only the portion of the walk above the installation up to the joint need be removed and replaced.

   In general, all conduits shall be straight and true, and all offsets and bends shall be uniform and symmetrical. Field bends of conduit shall only be accomplished with the use of an approved conduit heating/bending mechanism designed for that purpose. The Contractor shall adjust the elevations of the conduit assembly for its full length to approximately the same gradient as the finished roadway, and shall furnish and install, in the trench such suitable spacers and framing as may be necessary to maintain the correct grade and alignment. The cover material shall be firmly tamped into place in 6-inch lifts to minimize uneven settlement above or below the conduit.

5. Installation of Conduits Under Driving Surface and Sidewalk: All conduits that are to be placed under driveways, streets and sidewalk that are not scheduled for removal shall be directional bored, or installed by another method approved by Engineer that will not damage or disturb the integrity of the driveway, street or sidewalk. All conduits that are to be placed under driveways, alleys, streets, or sidewalk that are scheduled for removal must be placed during the time between the removal of the existing surface and the commencement of pavement operations. The Contractor is responsible for coordination with the paving Contractor.

6. Installation of Conduits Under Driving Surface and Sidewalk Outside Paving Limits: All conduits that are placed under driveways, streets and sidewalk that are not scheduled for removal as part of the street or sidewalk paving shall be placed either by directional boring, surface removal or other approved methods. Any required surface removal and restoration shall be considered incidental to the work required to provide a complete conduit system installation. Damage to pavement or sidewalk shall be remedied at the Contractor's expense.

7. Conduit Attached to Wood Poles (Service): All conduits terminating near the top of a wood pole shall utilize a metal weatherhead service entrance type fitting with knockouts (knockouts shall not be opened if

not used). Conduit shall be attached to a wood pole by galvanized RSC straps spaced 3 feet apart, or as directed by the Engineer.

8. Duct Seal: Duct seal or other Engineer approved material shall be furnished and installed to seal all controller cabinet and service cabinet conduit entrances as necessary in accordance with MnDOT 2565.3D2b.

9. Conduit Ends in Handholes: All ends of non-metallic conduit entering a handhole shall be trimmed by the Contractor, on the inside and outside of cut ends to remove rough edges. Conduits shall extend a minimum of 2 inches and no more than 3 inches into the handhole.

C. Concrete Traffic Signal Pole and Cabinet Foundations

All foundations shall be cast in place. Use of precast foundations is not permitted.

The concrete traffic signal cabinet foundations for the City furnished and installed traffic signal cabinets shall be installed in accordance with the details as shown on the detail sheets in the Plans. All foundation locations shall be approved by the City before construction.

Concrete pad finishing shall be broom finished on all exposed sides, level, and flat. No more than 0.125 inches of variability compensated by shims will be allowed. Variability in excess of this will require resurfacing or replacement at the direction of the Engineer. Inspections will be performed using a Contractor supplied City approved ½" thick steel template manufactured to match cabinet dimensions. The first pad shall be inspected in detail, approved and used as the standard for finish and workmanship. All templates required are incidental to the project.

All foundations shall be constructed such that the top of the foundation is at least 3 inches above the grade of the surrounding poured concrete.

D. Loop Detector Installation

Where loop detectors are required to be installed in roadways surfaced with new bituminous pavement, the loop detectors shall be installed before paving forces place the bituminous wearing course.

Detector locations identified as sampling detectors shall be constructed using standard loop detector installation procedures.

All loop detectors shall be NMC except that they may be saw cut at specific locations if so authorized by the City.

1. NMC Conduit
The Contractor shall install loop detectors in accordance with the applicable provisions of MnDOT 2565.3G and MnDOT Standard Plate

Minneapolis Standard Plate No. 81765 "Preformed Rigid PVC Conduit Loop Detector".

After completion of the installation, the loop shall be final tested, as described below. The completed sealed loop must pass frequency, inductance, and resistance tests prior to being accepted.

The Contractor shall splice roadway loop detector conductors in accordance with the procedure outlined below to loop detector lead-in cable conductors in the handhole or junction box adjacent to the loop detector and shall make each new loop detector operational. Lead in cable shall be installed in a continuous run from handhole to the controller cabinet with no intermediate splices permitted.

Slack loop detector lead-in cable, 10-feet in length, shall be left in each handhole through which a run of cable passes. All other applicable provisions for wiring in accordance with MnDOT 2565.3J shall apply.

The loop detector roadway conductors and the loop detector lead-in cable conductors shall be properly prepared and cleaned before splicing.

Prior to installing the approved loop detector splice kit, the Contractor shall solder the ends of the loop detector lead-in conductors to the roadway loop detector conductors, and shall furnish and install an appropriate sized wire nut to the soldered ends prior to installation of the splice kit.

Splice kits shall be installed in handholes in such a manner as to ensure that each splice kit is suspended and/or secured near the top of the handhole to the satisfaction of the Engineer **(placing splice kits on top of the electrical cables and conductors is NOT acceptable).**

2. Saw Cut

Saw cut loops shall be saw cut in the roadway in accordance with City of Minneapolis Standard Plate No. Traf-1760; with the Plans; with the provisions of MnDOT 2565.3G as directed by the Engineer and the following:

Loops shall be installed by saw cutting a slot in the pavement, installing the loop wires in the saw cut, sealing the wires and filling the saw cut with loop sealant and extending the wires under the curb into a handhole in accordance with City of Minneapolis Standard Plate No. Traf-1760.

The saw shall be equipped with a depth gauge and horizontal guide to assure proper depth and alignment of the slot. The blade used for the saw cut shall provide a clean, straight, well-defined 0.4-inch wide saw

cut without damage to adjacent areas. The depth of the saw cut shall be a minimum of 2 inches, and deep enough to provide 1.5 inches of cover above the conductors. Where the loop changes direction, the saw cuts shall be overlapped to provide full depth at all corners. Corners shall be drilled with a 1 ¾-inch diameter drill, and drilled to a depth of ¼ inch deeper than the saw cut.

Before installing the loop wire, the saw cuts shall be checked for the presence of jagged edges or protrusions. Should these exist, they must be removed. The slots must be cleaned and dried to remove cutting dust, grit, oil, moisture or other contaminants. Cleaning shall be achieved by flushing clean with a stream of water under pressure, and following this, the slots shall be cleared of water and dried using oil free compressed air.

Loop detector conductors shall be installed using a 1/5 inch to ¼-inch thick wood paddle. If the wire does not lie close to the bottom of the saw cut, it shall be held down by means of a material such as tape or Styrofoam.

Each loop shall have its wire coiled clockwise and the beginning conductor banded in the terminating handhole with a symbol to denote start of conductor. Each loop shall be further identified by number with durable tags, or as directed by the Engineer.

The field loop conductors installed in the pavement shall run continuously with no splices permitted.

After obtaining satisfactory test results, the loop shall be sealed with a flexible embedding sealer. The sealer shall be used strictly in accordance with the manufacturer's instructions. The sealer shall be poured into the slot to half depth. When both the loop and lead-in slots are half filled, check for air bubbles, for material pile-up, and then proceed to fill the slots to roadway level. Excess sealant shall be removed by means of the "squeegee." In all cases, there shall be neither a trough nor a mound formed. The sealer, when poured into a saw-cut, should completely surround the wires, displace all air therein and completely fill the area of the slot, except for that portion filled with the wire hold down material. Allow sufficient time for the sealer to harden in accordance with manufacturer's instructions before allowing traffic to move over the area.

After completion of the sealing, the loop shall be final tested, as described. The completed sealed loop must pass frequency, inductance, and resistance tests prior to being accepted.

All lengths of loop wires that are not imbedded in the pavement shall be twisted with at least five (5) turns per foot, including lengths in conduits and handholes.

Each loop shall terminate individually in the handhole and shall be taped to exclude moisture.

The saw cut configuration, depth, width, number of turns and labeling of wire ends shall be done in conformance with the City of Minneapolis Standard Plate No. Traf-1760.

The City will mark with spray paint the location and orientation of each loop to be installed on the pavement. The location of the handhole will also be identified.

Each loop detector of size 6 ft. x 6 ft. shall have 3 turns of wire.

Loop sealant shall be the black colored Detector Loop Sealant manufactured by 3M, Traffic Control Devices Safety and Security Systems Division, St. Paul, Minnesota. Material, which has exceeded the label expiration date, shall not be used.

Non-metallic conduit and fittings shall be Type II heavy-wall rigid PVC Schedule 40 and shall bear the Underwriters Laboratories, Inc. (UL) label.

The Contractor shall splice roadway loop detector conductors to loop detector lead-in cable conductors in the handhole or junction box adjacent to the loop detector and shall make each new loop detector operational. Lead in cable shall be installed in a continuous run from handhole to the controller cabinet with no intermediate splices permitted.

Slack loop detector lead-in cable, 10-feet in length, shall be left in each handhole through which a run of cable passes. All other applicable provisions for wiring in accordance with MnDOT 2565.3J shall apply.

E. Loop Detector Splice

The following splice procedure shall be utilized in connecting the loop lead and the lead-in conductors. This connection shall be made only in a detector handhole, signal base, or cabinet as shown on the Plans.

The electrical splice between the lead-in cable to the controller and the loop wire shall be soldered using resin core solder and provided with a watertight protective covering which covers the spliced wire, the shielding on the loop lead-ins and the end of the tubing containing the loop wires. The use of open flame to heat the wire connection will not be permitted. The Contractor shall use a soldering iron, gun, or torch equipped with a soldering tip. The splice shall be made by the following method:

1. Remove all lead-in coverings leaving 4 inches of insulated wire exposed.

2. Remove the insulation from each conductor of a pair of lead-in cable conductors and scrape both copper conductors with knife until bright.

3. Remove the insulation from the loop wires and scrape both copper conductors with knife until bright.

4. The conductors shall be connected by a soldered pigtail-type splice, wrapped with waterproof tape, and encapsulated in a splice encapsulation kit.

5. The Contractor shall use a **3M Company DBR 6 Kit** for splices.

6. Splices in handholes shall have the splice kit suspended vertically and secured near the top of the handhole with loop and lead-in conductors at the lower end of the kit. Splicing and placement shall be to the satisfaction of the Engineer.

   Conductors for inductive loop installations shall be individually identified and banded in pairs by lane, in the handhole adjacent to the loops. The loop detector lead in conductors shall be similarly identified at the cabinet.

F. Loop Detector Test Report

The Contractor shall furnish to the Engineer, in triplicate, a signed and dated "Loop Detector Test Report" for each loop detector and lead in cable system furnished and installed as part of this Contract with the following information.

1. Project Numbers and Intersection location.

2. Loop Detector Number (as shown in the Plans) Dimensions of Loop Detector (Length and Width in feet) as installed, and Number of Turns of wire in Loop Detector as installed.

3. Continuity Test: Each loop detector circuit shall be tested for continuity at two (2) locations: (1) Loop detector at the handhole prior to splicing with the loop detector lead-in cable (shall have a value less than 0.5 ohms), and (2) Loop detector and lead-in cable system at the traffic signal cabinet after splicing in the handhole (shall have a value less than 5 ohms). The continuity test ohm reading at the traffic signal cabinet shall be greater than the ohm reading measured at the loop detector adjacent handhole.

4. Inductance Test: Each loop detector and lead-in cable system shall have an inductance test measured at the traffic signal cabinet. The inductance shall be in the range of from 50 to 200 microhenries, depending upon loop size, number of turns, lead-in length, etc. Field-measured

inductance readings shall not vary by more than ±20 percent from theoretical calculated inductance.

5. Insulation Resistance Test: An insulation resistance test at 500 volts direct current shall be made at the traffic signal cabinet between one loop detector lead-in conductor and the "Equipment Ground Buss" in the cabinet. The insulation resistance shall have a value of not less than 100 megohms.

6. Resonant Frequency Test: The resonant frequency of the loop shall be determined by the use of a loop frequency tester. The resonant frequency shall remain stable when there is no vehicle activity in the area and shall not drift more than plus or minus one hertz per minute.

NOTE: The Continuity Test, Inductance Test, Insulation Resistance Test, and Resonant Frequency Test to be conducted at the traffic signal cabinet shall be performed before the loop detector lead-in conductors are terminated on the terminal facilities provided in the cabinet. The tests shall be performed in the presence of the Engineer and a designated City of Minneapolis Traffic and Parking Services representative.

All loop detector tests shall be made by the Contractor, at his own expense, to demonstrate that the materials and installation of each loop detector and lead-in cable system are in accordance with the requirements of the Plans and these Special Provisions. The tests shall be conducted in the presence of and to the satisfaction of the Engineer. The Contractor shall provide such electrical instruments, apparatus, tools, and labor as may be necessary to make the required loop detector tests on each loop detector and lead-in cable system. Such electrical instruments, apparatus, and tools shall remain the property of the Contractor after the tests are completed.

In the event that a loop detector and/or lead-in cable system "fails," any one of the above-mentioned loop detector tests, the Engineer may direct the Contractor to replace any part of or the entire loop detector and lead-in cable system at the Contractor's own expense. No Supplemental Agreement will be written for replacing any part of or the entire loop detector and lead-in cable system. All of the above-mentioned loop detector tests shall be repeated and recorded for the "revised" loop detector and lead-in cable system.

Each loop detector and lead-in cable system furnished and installed as part of this Contract shall "pass" the above-mentioned loop detector tests.

A suggested format for the "Loop Detector Test Report" is shown below. A blank Test Report is included in the Appendix.

--- S A M P L E ---

LOOP DETECTOR TEST REPORT

STATE PROJECT NO. S.A.P. 27-681-11; 27-681-12; S.A.P. 141-020-098; 141-020-102

INTERSECTION West Broadway at Penn Avenue North

LOCATION I.D. Minneapolis

No.	Loop Detector Number	Dimensions (in feet)		Number of Turns	Continuity (in Ohms)		Inductance (microhenries)	Insulation Resistance (megohms)	Resonant Frequency (Hertz)
		Length	Width		Loop	Cabinet			
1	D1-1	6 6 6 6	6 6 6 6	3	0.1 0.1 0.1 0.1	2.5	80	180	25K
2	D5-1	6 6 6 6	6 6 6 6	3	0.1 0.1 0.1 0.1	2.5	80	180	30K
3	D4-1	6	6	3	0.1	1.8	150	200	25K
4	D4-2	6	6	3	0.1	1.8	150	200	25K
5	D8-1	6	6	3	0.1	1.5	150	150	25K
6	D8-2	6	6	3	0.1	1.5	1.50	150	25K

--- E. T. C. ---

NOTES: 1. No. 3, 4, 5, and 6 in the above sample report, are an example of a single loop detector and lead-in cable system.

2. Nos. 1 and 2, in the above sample report, are an example of a multiple loop detector and lead-in cable system.

The Project Engineer shall distribute the three (3) final loop detector test reports as follows:

(01) Original report to the official project file
(02) Copy to the traffic signal cabinet
(03) Copy to the City of Minneapolis

G. Video Detection System Type 1

Type 1 Detection no longer used.

H. Video Detection System Type 2

The Contractor shall furnish, install and make operational all video detection devices for Signal Systems as shown in the Plans and as follows. The Contractor shall furnish and install all cables and conductors, mounting hardware, and each video detection device as per the Plans and to the satisfaction of the Engineer.

All equipment necessary as well as the equipment in each controller cabinet to operate each video detection system shall be new devices furnished and installed by the Contractor.

At least 14 days prior to when the traffic signal cabinet is required on the project, all necessary materials and electrical equipment required in the traffic signal cabinet, and all documentation, maintenance and operation manuals, and wiring diagrams shall be delivered to the TPS Electrical General Foreman (612-673-5759) at the City of Minneapolis Signal Shop at 300 Border Avenue North, Minneapolis, MN 55405.

1. General

This specification sets forth the minimum requirements for a system that detects vehicles on a roadway using only video images of vehicle traffic.

a. System Hardware

The video detection system (VDS) shall consist of up to four video cameras, up to four video detection processors (VDP) modules capable of processing one video source each, one Central Control Unit (CCU), input/output extension modules, video surge suppressors, and a wireless pointing device.

b. System Software

The system shall include software that discriminately detects vehicles and bicycles in single or multiple lanes using only the video image. Detection zones shall be defined using only an embedded software application. A monitor, keyboard, and a pointing device are used to place the zones on a video image. Up to 32 detection zones per camera shall be available. A separate computer shall not be required to program the detection zones. In addition to creating vehicle and bicycle zones, the system shall automatically define a pedestrian crossing area in front of the stop bar zones. The system shall provide a tracking mechanism

that counts pedestrian volume moving within this crossing area, and also determine the average, maximum, and minimum speed of pedestrians moving within this crossing zone.

c. The VDS shall be made in the U.S.A. in compliance with FTA "Buy America" regulations.

2. VDS Hardware

The VDP shall be a single-rack detector card width, and provide provision for up to two sensors per VDP. The following interfaces shall be provided on each video detection processor

Each VDP will be supplied with video from the VDS Camera Sensor via Ethernet cables plugged into the front of the Central Control Unit. The interface connectors shall be RJ-45 type.

A LED indicator shall be provided to indicate the presence of the video signal. The LED shall illuminate upon valid video synchronization and turn off when the presence of a valid video signal is removed.

Open collector (contact closure) outputs shall be provided. Four (4) open collector outputs shall be provided for the Video Detection Processor rack-mount configuration. Additionally, the VDS shall allow the use of extension modules to provide up to 32 open collector contact closures per camera input. Each open collector output shall be capable of sinking 30mA at 24VDC. Open collector outputs will be used for vehicle detection indicators as well as discrete outputs for alarm conditions. The VDP outputs shall be compatible with industry standard detector racks assignments.

Logic inputs such as delay/extend or delay inhibit shall be supported through the appropriate detector rack connector pin or front panel connector in the case of the I/O module. For VDPs and extension modules, 4 inputs shall be supported via detector rack interface. The I/O module shall accommodate eight (8) inputs through a 15-pin "D" connector.

Detection status LEDs shall be provided on the front panel. The LEDs shall illuminate when a contact closure output occurs. Rack-mounted video processors shall have a minimum of four (4) LEDs. Rack-mounted extension modules shall have two (2), four (4) or eight (8) LEDs (depending upon extension module type) to indicate detection.

The front panel of the VDP shall have detector test switches to allow the user to manually place vehicle and bicycle calls on each VDP output channel. The test switch shall be able to place a momentary call.

Both the VDP and EM shall be specifically designed to mount in a standard detector rack, using the edge connector to obtain power, provide contact closure outputs and accept logic inputs (e.g. delay/extend). No adapters shall be required to mount the VDP or EM in a standard detector rack and no rack rewiring shall not be required.

VDP printed circuit boards (PCBs) shall be conformally coated in accordance with Caltrans and NEMA specifications.

The VDP shall utilize non-volatile memory technology to store on-board firmware and operational data.

The CCU shall enable the loading of modified or enhanced software through either the Ethernet or front-panel USB port (using a USB thumb drive) and without removing or modifying the CCU hardware. The upgrade will affect both the CCU and VDP hardware when connected into a single system.

The VDP and EM shall be powered by 12 or 24 volts DC. VDP and EM modules shall automatically compensate for either 12 or 24 VDC operation. VDP power consumption shall not exceed 7.5 watts. The EM power consumption shall not exceed 3 watts.
The VDS shall operate satisfactorily in a temperature range from -30° F to +165° F (-34° C to +74° C) and a humidity range from 0%RH to 95%RH, non-condensing as set forth in NEMA specifications.

3. Central Control Unit (CCU)

The VDS Central Control Unit (CCU) shall be supplied by the VDS manufacturer.

The CCU shall be supplied in a standard One (1) Rack Unit (1U) 19" rack format. There shall be brackets to allow the CCU to be mounted under shelves where a 19" frame is not available.

The CCU shall be powered from an 110V or 230V, 50Hz or 60Hz supply. CCU power consumption shall not exceed 20 Watts

The VDS shall operate satisfactorily in a temperature range from -30° F to +165° F (-34° C to +74° C) and a humidity range from 0%RH to 95%RH, non-condensing as set forth in NEMA specifications.

The CCU shall utilize non-volatile memory technology to store on-board firmware and operational data.

The CCU shall incorporate video surge suppression for each video input. The CCU shall be appropriately grounded to the cabinet ground rod using 14 AWG (2.5mm2) minimum.

The CCU shall incorporate power surge suppression both on the input power and on the power supplied to the cameras. The CCU shall be appropriately grounded to the cabinet ground rod using 14 AWG (2.5mm2) minimum.

The CCU shall incorporate power management for the various parts of the VDS such that if fault conditions are detected the power supply will safely shut down the power to that peripheral.

Extension modules (EM) shall be available to eliminate the need of rewiring the detector rack, by enabling the user to plug an extension module into the appropriate slot in the detector rack to provide additional open collector outputs. The EM shall be available in both 2- and 4-channel configurations. EM configurations shall be programmable from the CCU. A separate I/O module shall also be available having 32 outputs through a 37-pin "D" connector on the front panel and 8 inputs through a 15-pin "D" connector using an external wire harness for expanded flexibility.

The CCU shall provide four ports for connection to VDS camera sensors. The connector shall be an RJ-45 type.

The CCU shall provide four ports for connection to VDPs. The connector shall be an RJ-45 type.

The CCU shall provide 2 USB 'A' ports on the front panel of the rack mount CCU unit. These ports can be utilized for various functions. For example, keyboard and mouse functions during system configuration, USB storage devices can be utilized for bin data and video collection. The USB ports shall not require special mouse software drivers. The USB ports shall be used as part of system setup and configuration

The CCU shall provide an output to a monitor. The port shall be HDMI. The native resolution of the monitor port shall be 1024 x 768.

An Ethernet communications port shall be provided on the front panel. The Ethernet port shall be compliant with IEEE 802.3 and shall use a RJ-45 type connector mounted on the front panel of the CCU. The Ethernet communications interface shall allow the user to remotely configure the system and/or to extract calculated vehicle/roadway information. The interface protocol shall be documented or interface software shall be provided. Each VDS shall have the capability to be IP addressable. The VDP shall support data rates of up to100Mbps.

The CCU shall provide an SDLC connection to the Traffic Controller. The connector shall be a 'D-15' type, in compliance with NEMA TS-2 specifications.

The CCU shall provide an indicator when the SDLC port is active.

The CCU shall provide an indicator when the unit has power.

The CCU shall provide an indicator when the unit is on line.

The CCU shall provide a Wi-Fi connection. The connection shall be over a standard 2.4GHz connection. The Wi-Fi connection shall be enabled and disabled by a switch on the CCU. The CCU shall provide an indicator when the Wi-Fi connection is active.

The CCU shall provide a connection for a removable antenna. The antenna connection shall be a SMA Male type.

The CCU shall provide system status via an on-board Organic Light Emitting Diode display. The display shall indicate various system parameters, such as camera health and VDP health, firmware version and camera air temperature. The display will be enabled with a switch on the CCU. The display will automatically disable 15 minutes after the button is pressed.

4. Video Detection Camera

The video cameras used for traffic detection shall be furnished by the VDP supplier and shall be qualified by the supplier to ensure proper system operation.

The VDS camera sensor shall utilize a single shielded CAT5E or CAT6 cable for power and video. Cable termination at the camera shall not require crimping or special tools. The cable termination shall only require a standard wire stripper and a screw driver. No connectors (e.g. BNC) shall be allowed.

The camera sensor shall allow the user to set the focus and field of view via the VDS software. Camera sensor control from the controller cabinet shall communicate over a single Cat-5e or CAT6 cable. No additional wires shall be required.

The camera shall produce a useable video image of the features of vehicles under all roadway lighting conditions, regardless of time of day. The minimum range of scene luminance over which the camera shall produce a useable video image shall be the minimum range from nighttime to daytime, but not less than the range 0.003 lux to 10,000 lux.

The camera electronics shall include automatic gain control (AGC) to produce a satisfactory image at night for the VDS algorithms.

The imager luminance signal to noise ratio (S/N) shall be more than 50 dB with the automatic gain control (AGC) disabled.

The imager shall employ three dimensional dynamic noise reduction (3D-DNR) to remove unwanted image noise.

The camera imager shall employ wide dynamic range (WDR) technology to compensate for wide dynamic outdoor lighting conditions. The dynamic range shall be greater than 100 dB.

The camera shall be digital signal processor (DSP) based and shall use a CCD sensing element and shall output color video with resolution of not less than 540 TV lines. The color CCD imager shall have a minimum effective area of 811(h) x 508(v) pixels.

The camera shall include an electronic shutter control based upon average scene luminance and shall be equipped with an auto-iris lens that operates in tandem with the electronic shutter. The electronic shutter shall operate between the range of 1/60th to 1/90,000th second.

The camera shall utilize automatic white balance.

The camera shall include a variable focal length lens with variable focus that can be adjusted, without opening up the camera housing, to suit the site geometry by means of a portable interface device designed for that purpose and manufactured by the detection system supplier.

The horizontal field of view shall be adjustable from 4.5 to 48 degrees. This camera configuration may be used for the majority of detection approaches in order to minimize the setup time and spares required by the user. The lens shall be a 12x zoom lens with a focal length of 3.5mm to 35mm.

The lens shall also have an auto-focus feature with a manual override to facilitate ease of setup.

The camera shall incorporate the use of preset positioning that store zoom and focus positioning information. The camera shall have the capability to recall the previously stored preset upon application of power.

The camera shall be housed in a weather-tight sealed enclosure. The housing shall allow the camera to be rotated to allow proper alignment between the camera and the traveled road surface.

The camera enclosure shall be equipped with a sunshield. The sunshield shall include a provision for water diversion to prevent water from flowing in the camera's field of view. The camera enclosure with sunshield shall be less than 3.5" (89mm) diameter, less than 5.25" (133mm) long, and shall weigh less than 2.5 pounds (1.14kg) when the camera and lens are mounted inside the enclosure.

The enclosure shall be designed so that the pan, tilt and rotation of the camera assembly can be accomplished independently without affecting the other settings.

The camera enclosure shall include a proportionally controlled Indium Tin Oxide (ITO) lens coating for the heating element of the front glass that maximizes heat transfer to the lens. The output power of the heater shall vary with temperature, to assure proper operation of the lens functions at low temperatures and prevent moisture condensation on the optical faceplate of the enclosure. The transparent coating shall not impact the visual acuity and shall be optically clear.

The glass face on the front of the enclosure shall have an anti-reflective coating to minimize light and image reflections.
The glass face on the front of the enclosure will include a Titanium Dioxide shelf cleaning coating

When mounted outdoors in the enclosure, the camera shall operate satisfactorily in a temperature range from -30° F to +140° F (-34 °C to +60 °C) and a humidity range from 0% RH to 100% RH. Measurement of satisfactory video shall be based upon VDP system operation.

The camera shall be powered by 48VDC. Power consumption shall be 5 watts typical and 16 watts or less under worst conditions.

Recommended camera placement height shall be 33 feet (or 10 meters) above the roadway, and over the traveled way on which vehicles are to be detected. For optimum detection the camera should be centered above the traveled roadway. The camera shall view approaching vehicles at a distance not to exceed 350 feet (107 meters) for reliable detection (height to distance ratio of 10:100). Camera placement and field of view (FOV) shall be unobstructed and as noted in the installation documentation provided by the supplier.

The video signal shall be fully isolated from the camera enclosure.

Cable terminations at the camera for video and power shall not require crimping tools.

A weather-proof protective cover shall be provided shall be provided to protect all terminations at the camera. No special tooling shall be required to remove or install the protective cap.

The camera assembly shall include a temperature sensor. The sensor will be polled by the VDS every minute and will supply the current air temperature. The VDS software will display this information on the On-Screen Display for each camera.

5. Functional Capabilities

Detection zones shall be programmed via an embedded application displayed on a video monitor and a keyboard and a pointing device connected to the CCU. The menu shall facilitate placement of detection zones and setting of zone parameters or to configure system parameters. A separate computer shall not be required for programming detection zones or to view system operation. All programming function shall occur on live video images, no snapshots or still images are allowed.

The VDS software shall store up to five completely independent detection zone patterns in non-volatile memory. The VDS can switch to any one of the three different detection patterns within 1 second of user request via menu selection with the pointing device. Each configuration shall be uniquely labeled and able to be edited by the user for identification. The currently active configuration indicator shall be displayed on the monitor.

The VDS shall detect vehicles and bicycles in real time as they travel across each detection zone.

The VDP shall automatically define a pedestrian crossing area, and track pedestrians in real-time as they travel across this pedestrian crossing area in both directions. The VDP shall count pedestrians moving left-to-right, and right-to-left. The VDP shall measure the speed of pedestrians moving left-to-right, and right-to-left, and provide the minimum, maximum, and average speed of the pedestrians per the bin interval. These values shall be displayed on-screen for both directions, and an option shall be provided to the user to turn this on-screen display on or off. This data will be stored in local memory for later retrieval via a remote device. The data will be stored at the Bin Interval set in the system.

The VDS shall accept new detection patterns from an external computer through the Ethernet port when the external computer uses the correct communications protocol for downloading detection patterns. A Windows™-based software designed for local or remote connection and providing video capture, real-time detection indication and detection zone modification capability shall be provided with the system.

The VDS shall have the capability to automatically switch to any one of the stored configurations based on the time of day which shall be programmable by the user.

The VDS shall send its detection patterns to an external computer through the Ethernet port when requested when the external computer uses the appropriate communications protocol for uploading detection patterns.

The VDS shall default to a safe condition, such as a constant call on each active detection channel, in the event of unacceptable interference or loss of the video signal.

The VDS shall be capable of automatically detecting a low-visibility condition such as fog and respond by placing all affected detection zones in a constant call mode. A user-selected alarm output shall be active during the low-visibility condition that can be used to modify the controller operation if connected to the appropriate controller input modifier(s). The system shall automatically revert to normal detection mode when the low-visibility condition no longer exists. An On-Screen Icon will be displayed while the system is in this mode.

Up to 32 detection zones per camera input shall be supported and each detection zone must be user-sizeable to suit the site and the desired vehicle detection region.

The VDS shall provide up to 32 open collector output channels per camera input using one or more extension modules.

A single detection zone shall be able to replace multiple inductive loops and the detection zones shall be OR'ed as the default or may instead be AND'ed together to indicate vehicle presence on a single approach of traffic movement.

When a vehicle is detected within a detection zone, a visual indication of the detection shall activate on the video overlay display to confirm the detection of the vehicle for the zone.

Detection shall be at least 98% accurate in good weather conditions, with slight degradation possible under adverse weather conditions (e.g. rain, snow, or fog) which reduce visibility. Detection accuracy is dependent upon site geometry, camera placement, camera quality and detection zone location, and these accuracy levels do not include allowances for occlusion or poor video due to camera location or quality.

The VDS shall provide dynamic zone reconfiguration (DZR). DZR sustains normal operation of existing detection zones when one zone is being added or modified during the setup process. The new zone configuration shall not go into effect until the configuration is saved by the operator.

Detection zone setup shall not require site specific information such as latitude and longitude to be entered into the system.

The VDS shall process the video input from each camera at 30 frames per second. Multiple camera processors shall process all video inputs simultaneously.

The VDS shall output a constant call during the background learning period of no longer than 3 minutes.

Detection zone outputs shall be individually configurable to allow the selection of presence, pulse, extend, and delay outputs. Timing parameters of pulse, extend, and delay outputs shall be user definable between 0.1 to 25.0 seconds.

Up to six detection zones per camera view shall have the capability to count the number of vehicles detected. The count value shall be internally stored for later retrieval through the Ethernet port. The zone shall also have the capability to calculate and store average speed and lane occupancy at user-selectable bin intervals of 10 seconds, 20 seconds, 1 minute, 5 minutes, 15 minutes, 30 minutes and 60 minutes.

In addition to the count type zone, the VDS shall be able to calculate average speed and lane occupancy for all of the zones independently. These values shall be stored in non-volatile memory for later retrieval.

The VDS shall have an "advance" zone type where raw detection output duration to the traffic controller is compensated for angular occlusion and distance.

The VDS shall employ color overlays on the video output.

The VDS shall have the ability to show controller phase status (green, yellow, or red) for up to 8 phases. These indications shall also be color coded.

The user shall have the ability to enable or disable the display of the phase information on the video output.

The VDS shall have the capability to change the characteristics of a detection zone based on external inputs such as signal phase. Each detection zone shall be able to switch from one zone type (i.e. presence, extension, pulse, etc.) to another zone type based on the signal state. For example, a zone may be a "count" zone when the phase is green but change to a "presence" zone type when the phase is not green. Another application would be zone type of "extension" when the signal phase is green and then "delay" when red.

The VDS software shall aid the user in drawing additional detection zones by automatically drawing and placing zones at appropriate locations with only a single click of the mouse. The additional zone shall utilize geometric extrapolation of the parent zone when creating the child zone. The process shall also automatically accommodate lane marking angles and zone overlaps.

When the user wishes to modify the location of a zone, the VDS software shall allow the user move a single zone, multiple zones or all zones simultaneously.

When the user wishes to modify the geometric shape of the zone, the VDS software shall allow the user to change the shape by moving the zone corner or zone sides.

On screen zone identifiers shall be modifiable by the user. The user shall be allowed to select channel output assignments, zone type, input status, zone labels or zone numbers to be the identifier.

The VDS software shall support bicycle type zones where the zone can differentiate between motorized vehicles and bicycles, producing a call for one but not the other.

Bicycle zone types shall only output when a bicycle is detected. Larger motorized vehicles such as cars and trucks that traverse a bicycle zone shall not provide an output.

The VDS software shall provide the ability to assign a separate output channel for bicycle zones to allow traffic controllers to implement special bicycle timing.

Placement of bicycle type zones in vehicle lanes shall be allowed.

Upon detection of a bicycle, the video output overlay shall indicate active detection as well as providing a unique bicycle detection identifier to visually distinguish bicycle detection versus vehicle detection.

Up to six bicycle detection zones per camera view shall have the capability to count the number of bicycles detected in addition to their normal detection function. The count value shall be internally stored for later retrieval through the Ethernet port.

The On-Screen Display shall include an Automatic Traffic Volume graph. This graph will display estimated Vehicles Per Hour (VPH) per movement for each camera view. The graph will display a rolling 24 hour period of VPH.

The On-Screen Display shall include an Occupancy Graph. This graph will display estimated approach occupancy for each camera view. The graph will display a rolling 24 hour period of Occupancy.

This section sets forth the minimum requirements for the VDS to provide a single point interface to remote and local users. The VDS shall also have the capability to stream up to four simultaneous video streams over an Ethernet interface.

The user interface shall provide capabilities to enable multiple rack-mounted video detection processors to be locally and remotely accessed from a single point via an Ethernet connection.

The device shall allow the operator to view four videos simultaneously or any one video by controls embedded in the VDS.

Local user access to video detection programming shall be limited to the detection processor unit that is currently being displayed on the monitor.

All local programming and setup parameters for the video detection processor shall be user accessible through the interface unit without requiring the user to swap user interface cables between video detection processors.

Remote access to the device shall be through the built-in Ethernet port via access software running on a Microsoft Windows based personal computer.

A Windows OS remote access firmware shall also be available for remote setup and diagnostics of the interface unit.

The VDS shall support streaming video technology using H.264 standards to allow the user to monitor video detection imagery over the Ethernet interface. Motion JPEG streaming video shall not be allowed.

The interface unit shall allow eight independent streams, one from each video processor, to be transported via Ethernet to four independent streaming video players simultaneously in D1 resolution.

The interface shall allow the user to select the resolution of the displayed streamed video.

The interface unit shall support the streaming and display of eight concurrent streams in D1 resolution.

The VDS shall allow the user to manage the unit's Ethernet bandwidth usage by allowing the user to select high, medium or low resolution.

The interface shall allow the user to change the unit's Ethernet network settings of IP address, subnet mask and default gateway.

The VDS shall allow the user to upload new application firmware through the use of the interface, remotely or on-site.

A Windows OS based application will be provided to remotely view video streams from the VDS.

An iOS and Android based application shall be available to remotely access each configured VDS on the agency's network. This application shall allow the user to choose between any number of pre-configured intersection locations. Using the iOS or Android device, the application will allow the user to view live video from any camera at that intersection, including vehicle and bicycle detections in real-time. The application will also allow the user to view individual intersection data, including turning movement counts and occupancy. The application will show each data set in time periods of day, week, or month, and have the capability of turning on or off right, left, and thru movement data for turning movement count data. The application will also allow the user to view current system diagnostic data, including the following, but not limited to; individual camera glare and low contrast information, system

low contrast, constant call, alarm, reboots, logins, and menu access information.

6. SDLC Functionality

This section sets forth the minimum requirements for a full-function BIU and integrated video detection communication. The VDS shall provide outputs to the controller of vehicle calls from video processors that reside within the detector rack.

The VDS shall have the capability of monitoring phase information and passing that information and other system data such as "time" from the controller to video detection processor modules. The VDP shall also accept data from video processor modules and relay the information to the controller. The unit shall provide a maximum of 64 detector outputs to the controller via the SDLC interface.

The module shall be in compliance with the following industry specifications:

- Transportation Electrical Equipment Specifications (TEES), August 16, 2002 (or latest edition), California Department of Transportation

- NEMA Standard Publication TS 1-1989 (or latest edition), Traffic Control Systems, National Electrical Manufacturers Association

- NEMA Standard Publication TS 2-2003, Traffic Controller Assemblies With NTCIP Requirements, Version 02.06 (or latest edition), National Electrical Manufacturers Association

The VDS shall have two data interfaces:

- The interface to the controller shall be accomplished by the use of the TS-2 SDLC port and protocol in accordance with the TS-2 specifications. The module shall be able to be configured to respond to BIU addresses 8, 9, 10 and 11 or a combination thereof.
- The interface to communicate with card rack video detection processors shall be manufacturer specific.

One LED indicator shall be provided for the TS-2 SDLC interface. The indicator shall be used to inform the user of any communication activity on the SDLC port.

7. Installation

The cable to be used between the camera and the CCU in the traffic cabinet shall be Cat-5e, shielded, direct burial. This cable shall be suitable for installation in conduit or overhead with appropriate span wire. Shielded RJ-45 connectors shall be used where applicable. The Cat-5e cable, RJ-45 connector, stripping and crimping tool shall be approved by the supplier of the video detection system, and the manufacturer's instructions must be followed to ensure proper connection.

The Contractor shall install the cameras on traffic signal mast arms or luminaire mast arms at the location directed by the Engineer; in accordance with the manufacturer's guidelines; and to the satisfaction of the Engineer. If, in the opinion of the Engineer, it is necessary to install extension brackets on the mast arm mounted cameras to obtain satisfactory operation the Contractor shall provide and install them as part of the intersection detection. The cameras shall be aimed and secured in an aimed position by the Contractor. The Contractor shall employ a Video Monitor and lens adjustment module approved by the manufacturer. The cameras shall be aimed so that the field of view is as directed by the Engineer. Drip loops shall be provided for the camera power and video cables.

The video detection system shall be installed by supplier factory certified installers and as recommended by the supplier and documented in installation materials provided by the supplier. Proof of factory certification shall be provided.

8. Limited Warranty

The supplier shall provide a limited five-year warranty on the video detection system.

During the warranty period, technical support shall be available without charge from the supplier via telephone within 4 hours of the time a call is made by a user, and this support shall be available from factory-certified personnel or factory-certified installers.

Updates to VDP software shall be available from the supplier without charge for the life of the product.

9. Maintenance and Support

The supplier shall maintain an adequate inventory of parts to support maintenance and repair of the video detection system. These parts shall be available for delivery within 30 days of order placement.

The supplier shall maintain an ongoing program of technical support for the video detection system. This technical support shall be available via telephone, or via personnel sent to the installation site upon placement of an acceptable order.

Installation and training support shall be provided by a factory authorized representative without charge.

All product documentation shall be written in the English language.

10. Deliverables

One video camera shall be provided for each signalized intersection approach to be equipped with detection as shown in the plans. One two-input video detection processor (VDP) module shall be provided for each two video cameras. One Central Control Unit (CCU) shall be provided per intersection. One extension module (EM) and one Ethernet communication module shall be provided per intersection. One color video monitor and wireless pointing device shall be provided per intersection. A Windows™-based software package designed for local or remote connection and providing video capture, real-time detection indication and detection zone modification capability shall also be provided with the system.

The color monitor shall be a 10.1" CCTV TFT LCD High Resolution (1024 X 768) or City of Minneapolis approved equal.

Upon proper orientation and connection of the various video detection cameras by the contractor, the factory authorized representative shall assist and train City of Minneapolis personnel in utilizing all software, setting up detection zones and channel assignments as well as establishing the other necessary parameters for a properly performing detection system.

One new spare two-input video detection processor (VDP) module, one Ethernet communication module, and one new spare video camera shall be provided to the City of Minneapolis for maintenance purposes upon acceptance of the system.

Each video detection system shall be complete and in operation. The cost of furnishing all materials and labor to perform the work described above at each identified intersection shall be paid for as **"Video Detection System Type 2 Intersection (n)", Each**.

I. Video Detection System Type 3

Video Detection Systems 3 and 4 no longer an option.

K. Handholes

Rings and covers shall be set in a bed of mortar and leveled to the finished surrounding grade. Cast-iron ring and covers constructed in accordance with City of Minneapolis Standard Plate No. TRAF-1715-R2 shall be furnished and installed by the Contractor. Handhole shall be constructed in accordance with Minneapolis Standard Plate No. TRAF-1710-R1. A drain field shall be provided with each handhole.

New metal handhole rings and covers shall be electrically grounded. No existing handhole ring and cover shall be reused. Rings and covers for new handholes shall be prepared for grounding prior to installation. Grounding shall be accomplished by attaching a 24 inch long #6 braided ground cable between the underside of the handhole ring and the underside of the handhole cover. Handhole ring shall be connected by means of No. 8 electric grounding conductor to nearest grounded street light or traffic signal structure. Conduits shall be installed by the use of a hole saw to cut through the handhole wall. The area surrounding the conduit entrance shall be sealed with a mortar filling. Conduits shall extend a minimum of 2 inches and not more than 3 inches into the handhole.

Signal interconnect conduit runs passing through handholes shall have both entering conduits placed in direct horizontal alignment.

No splicing shall be allowed in handholes unless specified in these specifications or on the plans.

The Contractor shall remove to the bottom of the handhole, any excess material inside of the handhole.

The Contractor shall salvage in place handholes not reused as part of a revised permanent signal system unless otherwise directed by the Engineer.

Salvaged and reused metal rings and covers shall be painted before reuse. Metal rings and covers shall be pretreated prior to concrete placement such that the concrete does not adhere to exposed surfaces. Rings and covers shall be cleaned free of adhering concrete after placement. Painting of the metal rings and covers is no longer required.

High density polymer concrete rings and covers shall be removed if exposed or otherwise disturbed by the project and replaced with steel handhole cover and rings.

L. Remove Existing Handhole

The Contractor shall remove the existing handhole while leaving the existing cables and the conduits intact. Typically the Plans shall have directed the Contractor to install another structure in its place.

Removal procedure may take one of two forms. Method one: The contractor may excavate around existing conduits around handhole, leaving existing cables in operation inside handhole. Contractor may break handhole body, leaving conduits and internal cables intact. Method two: Contractor may remove existing cables from the handhole. This may require removal of cables from multiple directions and may require turning off power to some traffic signals. If existing detector loops are disconnected at the splice, the contractor shall remake the splice in accordance with the splice procedure listed elsewhere in these special provisions.

In all cases, the contractor must preserve the integrity of the conduit system and of the existing electrical cables meeting at the removed handhole unless otherwise directed in the Plans.

Adjusting Existing Handholes:

Any existing handhole that is impacted by construction (concrete removal or height adjustment) must have a new grounded metal ring and cover installed.

M. Installation of Mast Arm Poles

The Contractor shall mount all transformer bases directly on the foundation. The use of the lower anchor rod nuts for leveling is not permitted. The lower anchor rod nut shall be tightened snug against the upper plate of the transformer base after leveling. Any pole that is not plumb shall be correctable up to ½-inch using stainless steel washers. The Contractor, at the Contractor's expense, shall recap foundations that are incorrectly installed.

N. Signal Out Requirements

During the period when each existing or temporary signal system is de-energized, traffic signs will be required to inform motorists that the signal indications are not operating. The Contractor shall furnish, erect, and maintain "Stop Ahead" and "Stop" signs and barricades. The quantity and size of the temporary signs and barricades as well as their placement in the field shall be as directed by the Engineer. The Contractor shall furnish and install materials to keep these signs upright and stationary. The signs, barricades, etc., shall remain the property of the Contractor. The Contractor shall notify the Engineer five (5) days in advance of de-energizing the system. The Engineer shall approve the day and time and duration of these events.

O. Vehicle And Pedestrian Signal Face Installation

1. Pedestal Mounted: The provisions of MnDOT 2565.3L1 are modified to include the following:

   Vehicle and pedestrian signal faces required to be mounted at the top of traffic signal pedestals shall be mounted in accordance with the "Minneapolis Standard Plate No. Traf- 1340-R2 shown in the Plans.

2. Vertical Pole Shaft Mounted: The provisions of MnDOT 2565.3L2 are modified to assure that vehicle and pedestrian signal faces required to be mounted on a vertical pole shaft of a mast arm pole standard shall be mounted in accordance with the Minneapolis Standard Plate No. Traf-1330-R3 shown in the Plans.

   The pedestrian indications Type 30A(R) and Type 30A(L) shall have no lower bracket and banding as shown.

   The one-way pole mounted vehicle indications Type 10A and Type 10B shall have the upper mounting bracket attached to the vertical pole shaft by the use of knurled steel threaded inserts and not by banding.

   The two-way pole mounted vehicle indications Type 20A shall have the upper mounting bracket attached to the vertical pole shaft by the use of knurled steel threaded inserts and not by banding.

3. Pedestrian Signal Attachment: Pedestrian signals shall be attached to the signal assembly plumbing using 1 ½" X 2" galvanized steel nipples to connect the signal to the 90-degree elbow at the top of the pedestrian signal. The pedestrian signal assembly shall be held in place on the 1 ½" plumbing through the use of a 2" – 10 gauge plated steel bushing and a 1 ½" by ½" galvanized steel lock nut.

4. In-place Signal Heads: All previous in-place heads shall be replaced new on the project and bid as such.

P. Maintenance of Existing Electrical Systems\

Maintain and keep in operation existing electrical systems (signals, street lighting, and interconnect) in accordance with MnDOT 2565.3B and as follows:

Except during any periods of authorized work suspension, the Contractor is responsible for locating all underground facilities of existing traffic signal, street lighting, and interconnect systems including temporary and newly constructed systems within the limits of the construction project, for the duration of the construction project in accordance with the applicable provisions of MnDOT 1514 and in accordance with Minnesota State Statute 216D.

The responsibility for locating underground electrical system facilities shall be transferred to the Contractor on the project start date as shown on the proposal.

The City of Minneapolis locating group will provide an initial locate of the underground electrical system facilities within the project limits at the request of

the Contractor at the start of the project. The request for the initial locate must be submitted to the City of Minneapolis a minimum of four (4) working days prior to the project start date.

Locate requests that are within the construction project limits will continue to be received by the City. These locate tickets will be forwarded to the Contractor's representative responsible for coordinating locate requests within the projects limits. The locate tickets will be forwarded via e mail or fax. Confirmation of receipt of the locate ticket must be sent by the Contractors representative back to the City within two (2) hours of the City's sending the Contractor's representative the locate request.

The Contractor responsible for locating all underground electrical system facilities will repair any damage as the result of improperly located or unmarked underground electrical system facilities within the project limits.

The repair of the damaged underground electrical system facilities must be in accordance with MnDOT 2545.3A, 2565.3B and in accordance with RTMC design and construction requirements all to the satisfaction of the Engineer. This work is considered incidental.

It is the Contractor's responsibility to notify the City to provide contact information and establish the Contractor has assumed responsibility for locating the City's underground electrical system facilities within the project limits. The form below shall be filled out by the Contractor's representative at the pre-construction meeting and the completed form shall be turned over to the City at the pre-construction meeting.

Until final written acceptance of the project by the Engineer (MnDOT 1716) this work is considered incidental.

During any periods of authorized work suspension, the City will provide and maintain all items of the existing, temporary, and newly constructed electrical systems.

In the event of an authorized work suspension the Contractor must supply 3 copies of an up to date accurate As Built drawing of the existing, temporary and newly constructed electrical systems to the Engineer prior to the work suspension.

PROVIDE TO THE CITY OF MINNEAPOLIS CONTACT INFORMATION WITH NAMES AND TELEPHONE NUMBERS FOR 24 HOURS A DAY, 7 DAYS A WEEK MAINTENANCE AS DEFINED BELOW.

Locating Responsibility Form

Job S.P. Number _____

Job Type _____

Start Date _____

End Date _____

Location _____

Lighting/ Signal Inspector _____

Contractor _____

Contractor (24 Hour Contact) _____

Project Manager _____

Phone Number _____

Fax Number _____

Email _____

Electrician _____

Phone Number _____

Locator Area _____

Project Engineer _____

Phone Number _____

Chief Inspector _____

Phone Number _____

Weekly Meeting _____

Q. Placing Traffic Control Signals In Operation

All vehicle signal faces and pedestrian indications shall be bagged or turned away from traffic immediately after erection to clearly indicate that the signal is not in operation. All bagging shall be gunnysacks or other like material approved by the Engineer and shall be maintained by the Contractor to the satisfaction of the Engineer. Bagging shall be of a grey or light brown color so as to clearly indicate that the signal face is not in use. Orange, red, or black bagging will not be permitted.

When the signal system is to be placed in operation, all vehicle signal faces and pedestrian indications shall be unbagged and aimed as directed by the Engineer.

At the time of controller cabinet connection by the City and at turn on, the Contractor shall have on hand and available at the location: spare lamps of each size, workers and equipment to reach overhead indications, and shall perform such work as may be required to correct such incidents as may be revealed in the connection and/or energization process. Only the City shall place the signal system in operation.

R. Accessible Push Button Units

Install accessible pedestrian push button units at the locations as indicated in the Plans. Each push button unit contains three (3) custom components:

1. Sign with Braille, City requires the 5” x 7” size option.

2. Push button with direction arrow

3. Custom voice message

The Contractor shall provide digital files containing the custom voice messages to Minneapolis Traffic staff.

Pay careful attention to button placement to ensure the button is placed in the correct location. Mount the button facing the pedestrian landing.

Follow the manufacturer’s installation requirements.

Apply an approved electrical insulating coating to the APS wire termination blocks, after wire installation. Electrical insulating coatings shall comply with the following MnDOT approved specifications:

Terminal blocks, screws, and spade lugs shall be covered with an electrical insulating coating that meets the following specifications:

E. Shall be an electrical grade insulator with a minimum dielectric strength of 850 V/mil when coating is fully dried.

1. Shall be an aerosol spray type coating.

2. Shall dry to a tack free handling condition within 2 hours of application at 70 degrees F.

3. Shall be red in color.

4. Shall protect all sprayed surfaces against moisture, corrosion, oil, alkalies, and acids.

5. Shall not degrade the electrical characteristics of the devices after the spray is applied and has fully dried.

Apply a bead of 100% clear silicone sealant around the top of the push button station housing where the button comes in contact with the pole shaft.

S. Control Cable Installation

At each system, before cabinet installation by the City, the Contractor for this Contract shall terminate all new electrical cables and conductors extending above the cabinet concrete foundation as follows:

Cables:

- Shall be cut 6.5 to 10 feet above the cabinet concrete foundations, and
- Shall have the ends taped, and
- Shall be labeled with the cable number as per the field wiring diagram - (label shall be applied 12 inches above the cabinet concrete foundation), and
- Shall be coiled, tie wrapped, and left in a neat manner.

T. Completed Intersection Installation Testing

After successful installation of all items required in the Plans and Special Provisions, the City shall inspect and test each intersection prior to acceptance of the completed installation.

Each completed intersection installation shall function to the satisfaction of the Engineer and in accordance with the intent of the Plans and Special Provisions.

U. Traffic Signal Cabinet

The cabinets will be furnished and installed by the City.

1. Controller Timing: Timing settings for controller units will be furnished and installed by the City.

2. EVP & Video Detection Equipment: The Contractor shall provide cabinet located EVP electronics and any necessary additional harnessing and all cabinet located Video Detection hardware to the Engineer for delivery to the City of Minneapolis. City forces will test, and then install and connect the equipment in the traffic signal cabinet.

V. Installation and Connection Of Permanent Cabinet & Control Equipment

At each system, the City of Minneapolis will furnish, install and connect the traffic signal cabinet, complete with controller unit and all required signal control equipment, including Contractor supplied components. Contractor forces shall be on site to assist the City during the installation process to trouble shoot issues identified during the cabinet installation/connection process.

W. Operation of Traffic Signals

1. Temporary Traffic Signal Systems: The Contractor shall not interfere with the operation of the traffic control signal system at any time at any intersection, except as may be otherwise authorized by the Engineer.

   The City will utilize temporary signals to provide temporary operation at each intersection where temporary signal operation is required.

   The Contractor shall remove and salvage all items of the existing traffic control signal systems not used in the temporary signal operation.

2. Continuous Operation: The Contractor shall ensure that a traffic control signal system is in operation at all times at those intersections where he is or has worked, except as may be otherwise directed by the Engineer.

3. Traffic Control Interconnect: The City requires that an operational traffic signal interconnect system be maintained through the project area until such time as the in place traffic signal systems are turned off. If the traffic signal interconnect system is utilized to communicate with other intersections outside of the project area a temporary interconnect system may have been installed and will need to remain in place and intact until such time as its functionality is can be replaced by a newly installed system. The Contractor shall not make any changes to or remove any part of the permanent or temporary interconnect system without first contacting and receiving the approval of the Minneapolis Traffic Division.

   If temporary interconnect facilities are shown in the Plans, the City will furnish and install all materials, equipment and labor required to maintain an operating temporary interconnect system for all signals within the project limits as well as any systems whose interconnect functions are carried on cables passing within or through the project limits.

X. Painting

The Contractor shall furnish all paint required after verification of the exact paints and colors with the City of Minneapolis Traffic and Parking Services.

At each system, all painting shall be in accordance with the provisions of MnDOT 2565.3X, except that finish coat paint for all traffic signal system items shall be two (2) manufacturers shop coats as modified below.

Traffic signal pedestal basesand push button station bases, shall be finish painted with Exterior Enamel, Signal Green, conforming to the City of Minneapolis Specifications.

Traffic signal pedestal shafts, pedestal slipfitter collars, all signal brackets, pipe fittings, push button stations and pipe caps shall be finish painted with Exterior Enamel, Minneapolis Signal Yellow conforming to Minneapolis Specifications.

A shop coat of primer paint shall be applied to the outside surface of all poles, bases, and shafts.

Mast arm pole vertical shafts, traffic signal mast arms, auxiliary sign arms, luminaire pole shaft extensions, luminaire mast arms, mast arm pole transformer bases as well as street light pole transformer bases and street light poles which have signal heads attached thereto shall be finish painted with Exterior Enamel Thermoset Acrylic conforming to the following color requirement and specifications of the City of Minneapolis:

- Paint color shall be Minneapolis UPS Brown.

The fitter on the top of the luminaire extension that transitions from the extension to the luminaire fixture shall be UPS Brown.

Dull Non-Reflective Black enamel shall be used on visors, directional louvers and background shields.

Y. As-Built Drawings

As-built drawings are required for all construction projects. See the “Record Drawing Requirements” section of Division S for more information.

SS-1.4 Removing, Salvaging, and Stockpiling Existing Materials and Electrical Equipment

This work shall consist of the removal of all or portions of existing traffic signal control systems.

A. Removing and Salvaging Existing Systems

When directed by the Engineer, the Contractor shall remove and salvage for the City all items of the existing traffic control signal systems, signal equipment, interconnect cable, foundations, handholes, service equipment, and signs in accordance with the applicable provisions of MnDOT 2104; with the applicable provisions of MnDOT 2565.3Y; and the following:

1. Underground conduit and handholes shall be removed, unless otherwise directed by the Engineer.

2. Salvaged items shall be disassembled as directed by the Engineer and shall be delivered to the City of Minneapolis Traffic and Parking Services Division at 300 Border Avenue North, Minneapolis.

   The Contractor shall contact the City Traffic and Parking Services office 24 hours in advance of delivery as follows:

   Traffic Stores

   Telephone: 612-673-5514

   Before returning salvaged items to City of Minneapolis, contractor to meet on site with Traffic electrical staff to determine what to salvage or scrap.

3. Salvaged items shall be disassembled before being delivered to the City of Minneapolis as follows:

   a. Vehicle signals and pedestrian signals shall be removed and left intact.

   b. Remove background shields from vehicle signal faces without damaging shields or signal faces.

   c. Remove and disassemble all signal bracketing and pipe fittings without damaging signal bracketing and signal faces.

   d. All signal and communication cables and conductors salvaged shall be neatly coiled and tagged with correct footage.

   e. Mast arm pole standards shall be disassembled by unbolting and removing mast arms, overhead signal head mounts, and

signal brackets. All nuts and bolts shall be packaged and tagged.

f. Luminaires shall be removed from the luminaire mast arms.

g. Pedestal shafts and shaft rods shall be removed from pedestal bases. Pedestal slipfitter collars shall be removed and all set screws and plugs left intact.

h. Service equipment, conduit risers, power conductors, etc., shall be removed from service wood poles and conduits disconnected from enclosures.

i. Signs and sign brackets shall be removed from signal poles and mast arms.

j. All other salvable items shall be removed and disassembled as directed by the Engineer.

k. Existing handhole rings and covers that are not to be reused shall be salvaged and delivered to the City.

l. **Where controller equipment is being replaced, the existing traffic signal cabinet electronics will be removed and salvaged by the City.**

m. Traffic signal cabinets shall be disconnected from all field cabling before removal. Damage to terminal facilities resulting from the removal/transportation process shall be billed to the Contractor.

4. Concrete cabinet and pole foundations, conduit, and items deemed non-salvageable by the Engineer of each existing traffic control signal system shall be removed and disposed of outside the right-of-way in any manner that the Contractor may elect subject to the provisions of MnDOT 2104.3C3 and as noted elsewhere in these Special Provisions.

5. The concrete cabinet and pole foundations, and the underground signal conduits may include asbestos containing electrical conduits (Transite). The 3′ x 18″ vertical pipe in handholes may also contain asbestos, Transite pipe. Underground signal conduits that contain asbestos will have been encased in concrete at the time of installation. For the procedure for handling and disposal of these asbestos-containing materials see the Asbestos Abatement located in Appendix A. Contact the City of Minneapolis to have the City be on site during the Contractor removal of these asbestos-containing materials, so that the City may observe the Contractor removal procedures.

   Contractor or subcontractor conducting the Transite material removal and transport work must be a firm licensed to conduct asbestos abatement. **Report manifests for those materials with Transite removal must be submitted to the City by the Contractor**. Removal materials will not be allowed to be transported to City-owned facilities.

6. The removal of underground signal conduits, traffic signal handholes, and foundations containing asbestos shall be paid for as part of the lump sum cost for Salvage Signal System. Refer to Appendix A for information regarding this removal.

7. All removal, disposal, and salvaging of materials of the existing traffic control signal systems, as required by the Plans and Special Provisions shall be paid for in accordance with the "Method of Measurement and Payment" included in a separate section.

SS-1.5 Type C and D Signs

This work shall consist of furnishing and installing Type C and Type D sign panels, and installing City furnished signs as directed by the Engineer, in accordance with the applicable provisions of MnDOT 2564; with the details shown in the Plans; and as follows:

A. General

The Contractor shall furnish and install Type C and Type D sign panels on traffic signal mast arms, pedestal shafts, or mast arm pole shafts as indicated in the Plans.

Each Type C sign shall be in accordance with the Standard Sign Drawings of the MnDOT Standard Signs Manual and with the applicable provisions of MnDOT 3352.

B. Materials

Sign base, sign face and sign legend material for sign panels Type C and Type D shall be in accordance with the applicable provisions of MnDOT 2564, except the sign face and legend material shall be as follows:

Sign face material for sign panels shall be Direct Applied Wide Angle Prismatic Retroreflective Sheeting for Visual Impact Performance (VIP) manufactured by 3M Company.

Sign legend material for sign panels shall be Direct Applied Wide Angle Prismatic Retroreflective Sheeting for Visual Impact Performance (VIP) manufactured by 3M Company, except where black legend is specified the sign legend material shall be in accordance with MnDOT 3352.2A5c or MnDOT 3352.2A5d.

C. Fabrication

Type D sign panel layouts are dimensioned as follows:

1. Vertical Dimensioning

The dimension given is for the legend component having the largest vertical dimension in the particular line of copy. Other legend components are centered on the larger legend component unless indicated otherwise.

2. Horizontal Dimensioning

The horizontal dimensions given within the sign panel are to the tenth of an inch and are cumulative representing the distance from the left edge of panel to the extreme left edge of the legend component.

3. Sign Panel Recap

The position of an arrow is measured in degrees counterclockwise from a right horizontal reference line. The abbreviation MOD used in the sign panel recap = Modified.

D. Mounting Sign Panels

Each pedestal pole shaft or mast arm pole shaft mounted Type C sign shall be furnished with two standard sign mounting bracket assemblies (utilizing a minimum 21 mm wide stainless steel band), or at the option of the City and at the direction of the Engineer the Contractor shall drill and tap shaft, and each sign shall be mounted on each mast arm pole or pedestal pole at the location shown in the Plans.

Each Type C and mast arm mounted Type D sign panel shall be provided with mounting brackets as required and mounted at the location on the mast arm as specified in the Plans to the satisfaction of the Engineer and in accordance with the MnDOT Standard Signs Manual.

For sign panels less than 30 inches in height, the Contractor shall furnish the appropriate number of U-bolt brackets detailed on Page No. 105A of the MnDOT Standard Signs Manual (number of U-bolt brackets based on the sign panel length tabulated in the SIGN POST SPACING CHART in the Plan - **NOTE that maximum spacing between U-bolt brackets shall not exceed 45 inches**) and install U-bolt brackets at the appropriate spacing as specified in the SIGN POST SPACING CHART.

For sign panels greater than 24 inches in height, the Contractor shall furnish the appropriate number of pipe posts detailed on Page 105B of the MnDOT Standard Signs Manual (number of pipe posts based on the sign panel length tabulated in the SIGN POST SPACING CHART in the Plan - **NOTE that maximum spacing between U-bolt brackets shall net exceed 45 inches)** and install pipe posts at the appropriate spacing as specified in the SIGN POST SPACING CHART.

When attaching the U-bolts to the mast arm, the Contractor shall NOT install all U-bolts such that all "Z" brackets face the same direction as detailed in Section A-A on Page No. 105B of the MnDOT Standard Signs Manual. This will

prevent a sign panel from "walking off" the mast arm if sign bracketing loosens in the future.

The Contractor shall furnish and install a fabrication sticker (see example) in accordance with the provisions of MnDOT 2564.3H.

SIGN COMPANY NAME
AND ADDRESS HERE

Month: 1 2 3 5 4 6 7
8 9 10 11 12
Year: 12 13 14 15 16 17 18 19

E. Measurement and Payment

Furnishing and installing Type C and Type D sign panels and installing City furnished signs, at the locations indicated in the Plans, and as specified herein shall be considered incidental work to each traffic control signal system and no direct compensation shall be made therefore.

SS-1.6 Traffic Signal Priority Control System

This work shall consist of the installation at all the intersections, as shown in the Plans, a Priority Vehicle Detection and Control System (PVDCS). The PVDCS shall detect and identify priority vehicles such as emergency and non-emergency vehicles for preemptive or priority traffic signal service.

Commonly used abbreviations:

(PVDCS) Priority Vehicle Detection and Control System

(NEVP) Non-Emergency Vehicle Preemption, low priority

(EVP) Emergency Vehicle Preemption, high priority

Each PVDCS shall consist of a matched system of equipment that includes optical emitters, optical detectors, optical detector cables, phase selectors and confirmation light assemblies. The system shall work with the local intersection traffic signal controller to provide an effective total system operation.

Each PVDCS shall employ infrared optical communication to detect the presence of all priority vehicles and collect and record pertinent priority vehicle information.

Once operational, the PVDCS shall require no additional action from the vehicle operator to provide proper operation. The system shall provide priority operation on a first-come, first-served basis with high priority requests overriding low priority requests.

For application in Minneapolis, the PVDCS shall interface to traffic signal controllers. It shall be the Contractors responsibility to work with the City to verify proper operation of the total system.

A. System Description

The required priority control system shall employ data-encoded infrared communication to identify the presence of designated priority or probe vehicles. The system shall be able to create a record of system users by vehicle classification and identification number. In priority vehicle mode, the data-encoded communication shall request the traffic signal controller to advance to and/or hold a desired traffic signal display selected from phases normally available. In probe vehicle mode, no traffic signal priority is requested--only a record of the probe vehicle's presence is generated.

The priority control system shall consist of a matched system of data-encoded emitters, infrared detectors, detector cable, phase selectors and system software. The emitter shall generate an infrared, data-encoded signal. The data-encoded signal shall be detected and recognized by the infrared detectors at or near the intersection over a line-of-sight path of up to 2,500 feet (762 m) under clear

atmospheric conditions. The phase selector shall process the electrical signal from the detector to ensure that the communication (1) is a valid base frequency, (2) is correctly data encoded, and (3) is within user-settable range. If these conditions are met, the phase selector shall generate a priority control request to the traffic controller (i.e., a green light) for the approaching priority vehicles, or record the presence of approaching probe vehicles by classification and identification number.

The system shall require no action from the vehicle operator other than to turn the emitter on. The system shall operate on a first-come, first-served basis. High priority requests shall override Low priority requests. The system shall interface with most traffic signal controllers and shall not compromise normal operation or existing safety provisions.

1. The Optical Signal Processor (OSP) shall be capable of categorizing vehicles in both emergency and transit signal bands. The OSP shall be capable of the following actions, configurable on a per band basis:

   a. Local preempt – if enabled, the OSP shall place a call on the appropriate controller input in response to vehicle detection. (Default shall be enabled)

   b. Logging – if enabled, the OSP shall be capable of writing a log record in non-volatile memory consisting of the following information: (Default shall be enabled)

      - Signal band
      - Direction
      - Call duration
      - Event start time and end time in real time

   System receivers shall always give precedence to emergency band vehicles over transit band vehicles.

   System receivers shall be capable of detecting emitter-equipped vehicles at a range of up to 2,500 feet (762 meters), under clear atmospheric conditions.

   System receivers shall be interface with all NEMA TS-1 and TS-2 and Type 2070 traffic controllers equipped with programmable preemption routines, with no compromise to normal traffic controller functions.

   Optical signal processors must be field programmable by the user, using the manufacturer's system software via computer.

B. System Components

The required priority control, data-encoded, infrared communications system shall be comprised of five basic matched components: data-encoded emitter, infrared detector, detector cable, phase selector and system software. In addition, a card rack should be available if required. To ensure system integrity, operation and compatibility, all components shall be from the same manufacturer. The system should offer compatibility with all NEMA (National Electrical Manufacturers Association), 170, and 2070 traffic signal controllers with programmable preemption routines.

1. Emitters

   A data-encoded emitter shall trigger the system. It will send the encoded infrared signals to the detector. It will be located on the priority or probe vehicle. Optical emitters shall generate the optical signal required to activate the receiver equipment in the intersection. The light pulses shall consist of a fixed base frequency emergency or transit band signal for standard preemption systems.

   Optical emitters shall effect the range adjustment of the system by using activated optical emitters positioned at the desired distance while the optical signal processor range adjustment features are activated in the traffic cabinet.

2. Optical Detector

   The detector shall change the infrared signal to an electrical signal. It shall be located at or near the intersection. It will send the electrical signal, via the detector cable, to the phase selector. The detector electronics shall be waterproof.

   Infrared optical detectors shall sense and transform optical energy from optical emitters into electrical signals to be decoded by the optical signal processor.

   Infrared optical detectors shall be capable of receiving coded signals from emitters manufactured by GTT and/or Emtrac and/or a City of Minneapolis approved equal.

   Infrared optical detectors shall sense optical emitter signals over an adjustable range of 2500 feet (762m) in optimum atmospheric conditions.

   Infrared optical detectors shall transmit electrical signals to the optical signal processor via up to 1000 feet of optical detector cable.

   Infrared optical detectors shall have an internal terminal strip with wiring label for convenient positive connection to the detector cable.

Infrared optical detectors shall have at least a nominal conical 13-degree field of view centered about the view port normal axis.

Infrared optical detectors shall operate over a range of 12 to 30 VDC and current of up to 50ma maximum.

Infrared optical detectors shall have a ½ inch or ¾ inch FNPT mounting connection.

Infrared optical detectors shall be capable of performing a regularly occurring detector initiated diagnostic testing that checks all components used in the receipt and processing of incoming light pulses.

3. Detector Cable

The detector cable shall carry the electrical signal from the detector to the phase selector. Optical detector cable shall be in accordance with the provisions of MnDOT 3815.2C5.

4. EVP Confirmation Lights

The confirmation light assembly shall be constructed from standard electrical hardware in conformance to the arrangement and configuration requirements described herein and shown on the Plans.

The confirmation light shall be 8 watt LED PAR20 Sylvania style light or City of Minneapolis approved equal.

When the controller begins processing an EVP request, the controller shall also generate preempt confirmation outputs indicating that an EVP request is being processed (confirmation outputs shall only be generated for EVP & rail operation).

The EVP confirmation outputs shall be wire connected to unused load switches in the controller cabinet. The circuits shall be connected to EVP confirmation lights in the intersection.

The controller circuits shall be programmed to provide an illuminated solid white light to the requesting phase of EVP service and illuminated flashing white lights to all other vehicle phases.

5. Optical Signal Processor (Phase Selector)

The phase selector shall accommodate data-encoded communication and be able to validate, identify, classify and record the signal from the detector. It shall be located within the controller cabinet at the intersection. It will request the controller to provide priority to the requesting vehicle and/or record presence of a probe vehicle.

The optical signal processor shall interface directly with Type 2070 controllers with compatible software, and NEMA TS-1 and TS-2 with suitable system interface equipment and software.
The phase selector shall be a plug-in, two or four channel, multiple-priority device intended to be installed directly into a card rack located within the controller cabinet.

The phase selector shall be powered from 115 volt (89 volts AC to 135 volts AC), 60Hz mains and shall contain an internal, regulated power supply that supports at least four infrared detectors. The phase selector may also operate on 24 VDC

Programming the phase selector and retrieving the data stored in it shall be accomplished using a Windows™ computer and the system interface software. The connection can be made either locally, via the computer's communication RS-232 or USB COM port, or remotely via the phase selectors Ethernet port. A USB port and at least one 10/100Ethernet port shall also be available on the phase selector. The communication protocol shall be made available upon request for creating software to implement other communication applications.

The phase selector shall include the ability to sense the green signal indications through the use of dedicated sensing circuits and wires connected between the field wire termination points in the traffic controller cabinet and the auxiliary interface panel.

The phase selector shall have the capability of storing up to 10,000 of the most recent priority control calls, probe frequency passages, or unauthorized vehicle occurrences. When the log is full, the phase selector shall drop the oldest entry to accommodate the new entry. The phase selector shall store the record in non-volatile memory and shall retain the record if power terminates. Each record entry shall include information about the priority call, as follows:

a. Classification: Indicates the type of vehicle.
b. Identification number: Indicates the unique ID number of the vehicle.
c. Priority level: Indicates whether High or Low priority or Probe frequency is requested by the vehicle.
d. Direction: Channel A, B, C, or D; indicates the vehicle's direction of travel.
e. Time and date call started and ended: Indicates the time a priority call started and ended; provided in seconds, minutes, hours, day, month, and year.
f. Maximum and minimum signal intensity: Indicates the strongest signal intensity measured by the phase selector during call.

g. Priority output active: Indicates if the phase selector requested priority from the controller for the call.
h. Relative priority: relative priority of vehicle class logged at time of call
i. Directional priority: directional priority logged at time of call,
j. Preempt output used
k. No preempt cause: Indicates a history of conditions, which may have prevented a call or caused a call to terminate.

The following diagnostic tests are incorporated in the phase selector:

- Power up built in test.
- Preemption output test call

The phase selector shall be capable of call bridging. Call bridging enables the treatment of two vehicles requesting priority activation to have their calls linked together to hold a call to the controller so that they may traverse the approach together.

Relative priority allows emitter classes to be used as an additional level of prioritization within priority levels (i.e. high and low priority levels have different sets of relative priorities). If the phase selector is capable of relative priority, it shall support at least 10 unique classes in each priority level (High and Low). The relative priority class level with the highest value shall have the highest weight and 0 the lowest weight in each. If relative priority is enabled, a priority call shall be granted to the caller with the higher class level within high and low priority levels. A vehicle with a call granted, shall be able to have its call taken away by a higher level class vehicle. The system shall provide a lockout threshold that once met, shall disallow higher relative priority calls from taking away a call. Call thresholds shall be specified as intensity. The default shall be the highest level. High priority calls shall always be served over low priority calls regardless of either's relative class. Preemption for vehicles with the same base priority (high, low) and the same relative priority is done using the default first come, first served mechanism. Relative priority is capable of being enabled or disabled using system software. Relative priority for high and low can be separately enabled or disabled using system software. The default settings for all relative priority (high and low) values shall be the highest level. Relative priority shall be disabled by default for both high and low priority.

The phase selector shall include several control timers that will limit or modify the duration of a priority control condition, and can be programmed from a Windows™ computer. The control timers shall be as follows:

MAX CALL TIME: Shall set the maximum time a channel is allowed to be active. It shall be settable from 60 to 300 seconds in one-second increments.

CALL HOLD TIME: Shall set the time a call is held on a channel after the priority signal is no longer being received. It shall be settable from one to 255 seconds in one-second increments. Its factory default must be six seconds.

CALL DELAY TIME: Shall set the time a call must be recognized before the phase selector activates the corresponding output. The factory default shall be zero seconds. If the City desired to use this feature, it shall be settable from zero to 255 seconds in one-second increments.

The phase selector's default values shall be re-settable by the operator using the interface software.

The phase selector shall be capable of three levels of discrimination of data-encoded infrared signals, as follows:

a. Verification of the presence of the base infrared signal of either High priority, Low priority or Probe frequency.
b. Validation of the infrared signal data-encoded pulses.
c. Determination of when the vehicle is within the prescribed range.

The phase selector's card edge connector shall include primary infrared detector inputs and power outputs. Two additional detector inputs per channel shall be provided on a front panel connector.

The phase selector shall include one opto-isolated NPN output per channel that provides the following electrical signal to the appropriate pin on the card edge connector:

a. 6.25Hz ± 0.1Hz 50% on/duty square wave in response to a Low priority call.
b. A steady ON in response to a High priority call.

The phase selector shall accommodate two methods for setting intensity thresholds (emitter range) for high and low priority signals:

a. Using a data-encoded emitter with range-setting capability.
b. Inputting the range requirements via the interface software.

The intensity range thresholds shall be programmable.

The phase selector shall have a Status LED indicator that indicates that the unit is powered.

The phase selector shall have a High (High) and Low (Low) LED indicator for each channel to display active calls.

The phase selector shall have a test switch and a select switch to test proper operation of High or Low priority.

The phase selector shall properly identify one High priority call with the presence of 10 other Low priority data-encoded emitter signals being received simultaneously on the same channel.

The phase selector shall have the capability to enter unique names for each channel via the interface software.

The phase selector shall provide one isolated confirmation light control output per channel. These outputs are user configurable through software for a variety of confirmation light sequences.

The phase selector shall also have the option of providing separate outputs for High and Low priority calls for controllers that do not recognize a 6.25 Hz pulsed Low priority request.

The phase selector shall have the capability of recording the presence of a vehicle transmitting at the specified Probe frequency. The phase selector shall at no time attempt to modify the intersection operation in response to the Probe frequency.

The phase selector shall have the capability to assign a relative priority to a call request within High or Low priority. This assignment will be based on the received vehicle class.

The phase selector shall have the capability to discriminate between individual ID codes, and allow or deny a call output to the controller based on this information.

The phase selector shall have the capability to log call requests by unauthorized vehicles.

The phase selector shall incorporate a precision real time clock.

The clock shall have the capability to automatically adjust itself for changes in daylight saving time. Interface software shall be able to set the clock and to input the appropriate dates and times for daylight saving changes.

The phase selector shall have the capability to set the minimum time between Low priority calls.

An auxiliary interface panel shall be available to facilitate interconnections between the phase selector and traffic cabinet wiring.

6. Interface Software:

Interface software shall be provided to manage phase selector and vehicle equipment while on-site at the intersection.

The on-site software shall be provided on memory stick, CD-ROM or via download from the vendor's website.

The on-site software shall be supported on Windows™ XP and Windows™ 7 operating systems.

The vendor shall provide minimum hardware configuration information for computer(s) running the on-site software.

The on-site software shall provide context-sensitive online help.

The on-site software shall allow the user to view and update all programmable configuration parameters of the phase selector and vehicle equipment.

The on-site software shall allow the user to provide intersection name and approach names for each of the four channels and store these as part of the phase selector configuration.

The on-site software shall allow the user to view and update valid and blocked vehicle codes for the phase selector.

The on-site software shall allow the user to save the configuration from the phase selector to a file.

The on-site software shall allow the user to restore the configuration for a phase selector from a saved configuration file.

The on-site software shall allow the user to print the phase selector configuration.

The on-site software shall allow the user to view the activity log from the phase selector.

The on-site software shall allow the user to save the activity log to a file.

The on-site software shall allow the user to print the activity log.

The on-site software shall allow the user to update firmware for all upgradable modules of the phase selector and vehicle equipment.

The on-site software shall display current status of all vehicles within range of the phase selector. The following details shall be tracked:

a. The approach channel
b. Vehicle ID
c. Priority level
d. Preempt / priority status
e. Emitter intensity level
f. Active preemption / priority output
g. Indication if vehicle is in range.
h. No preempt cause

C. Environmental

All equipment supplied as part of the optical preemption traffic control system intended for use in the controller cabinet shall meet the electrical and environmental specifications spelled out in the NEMA Standards Publications TS2-1992 Part 2 where applicable.

D. Qualifications

The manufacturer or their qualified agents shall supply a list of at least five preemption system users having experience with the various types of preemption system components available from the manufacturer for a minimum of three years.

Manufacturers shall be able to demonstrate the ability to provide on-going technical and product warranty support.

Manufacturer or the manufacturer's representative shall provide responsive service before, during and after the installation of the priority control system. The manufacturer or the manufacturer's representatives shall provide training to the system installer and maintenance department of the purchasing agency. Training shall consist of proper installation and operating procedures for the system hardware and software.

E. Warranty

The manufacturer of the required priority control system shall warrant that, provided the priority control system has been properly installed, operated and maintained, component parts of a matched component system that prove to be defective in workmanship and/or material during the first five (5) years from the

date of shipment from the manufacturer shall be covered in a documented system-protection plan. Additionally, the manufacturer must provide an added five-year maintenance plan for repair or replacement for a total of ten (10) years of product coverage.

The protection plan shall warrant that component parts of a matched component system that are not subject to coverage limitations and prove to be defective in workmanship and/or material during the first five (5) years from the date of shipment from manufacturer shall be repaired at no charge, and that extended coverage shall be available for an additional five (5) years.

In total, the warranty/maintenance coverage must assure that system components shall be available to allow system operation during the ten (10) year warranty/maintenance coverage.

A copy of the manufacturer's written warranty outlining the conditions stated above shall be supplied with the bid. Coverage and coverage limitations are to be administered as detailed in the manufacturer's Warranty/Maintenance document.

F. Contractor Work Tasks

The Contractor shall:

a. Provide all PVDCS materials and equipment, mounting hardware, wiring, cables, optical detectors, confirmation light assemblies and bulbs, phase selectors, mounting brackets, detector connection cables, cable termination strips, communication cables, test equipment and computer software and other items as required. Install optical detectors with confirmation light assemblies at the locations shown on the Plans.
b. Aim, orient, test operate and demonstrate that the optical detectors at each intersection provide effective EVP system operation as required for the conditions shown on the Plans.
c. Install detector and confirmation light wiring from the detector device to a controller cabinet terminal strip.
d. Provide installation assistance services and support to the City during controller cabinet hookup and connection of the Contractor furnished in-cabinet materials by the City to provide the operations and service described herein.
e. Demonstrate correct operation of each properly equipped and operational intersection to serve as acceptance tests of the PVDCS system and components.
f. Provide system and component documentation.
g. Provide system and component application and maintenance training to support the proper installation and operation of system components.
h. Provide PC-based software and interconnection cables to fully implement all components into a complete operational system.

G. City Work Tasks

City forces shall:

a. Furnish necessary qualified staff to attend application and training seminars.
b. Furnish and install all controllers, controller equipment and cabinets.
c. Install and connect all Contractor furnished PVDCS in-cabinet equipment.
d. Connect Contractor installed optical detector wires to in-cabinet equipment.
e. Connect Contractor installed confirmation light wires to in-cabinet equipment.
f. Connect Contractor provided cable between the signal greens and the phase selector inputs.
g. In general, install and connect all Contractor furnished in-cabinet equipment and cables.

H. Optical Detector Mounting and Confirmation Light Assembly

Combination optical detector mounting and confirmation light assemblies shall be furnished and installed at each intersection as shown on the Plans.

Each assembly shall be made up from UL listed standard electrical hardware to provide a sturdy and weatherproof assembly suitable for mounting optical detectors and confirmation lights.

Each assembly shall be designed to mount two optical detectors and two confirmation lights. When less than two optical detectors or confirmation lights are used, the unused mountings shall be capped or plugged in an approved manner.

Each confirmation light assembly shall consist of incandescent lights that shall operate in conjunction with the PVDCS to indicate the occurrence of a high priority preemption call.

Confirmation lights shall be wired to provide confirmation for each preemption phase.

An illuminated solid white light shall be displayed to the directions of traffic flow represented by the preempt phase, illuminated flashing white lights shall be displayed to all other approaches.
Confirmation displays shall only be used with emergency vehicle or rail preemption.

Reflectorized outdoor type flood lamps shall be provided for each confirmation lamp holder by the Contractor.

I. Priority Control Interface Software

The Contractor shall provide PVDCS PC based software to enable direct uploading and downloading of settings and control commands and the downloading of data describing priority vehicle operation.

The PVDCS interface software shall be provided on CD-ROM. It shall run on IBM compatible computers with XP & 7 software, a touchpad and keyboard.

It shall be possible to connect a personal computer directly to the phase selector serial port to upload and download information and data. Local connection shall permit all upload and download operations to be provided in the field.

The Contractor-supplied priority control interface software shall enable:

- Setting up and presenting user-settable system parameters
- Viewing and changing settings

- Viewing activity screens
- Displaying and downloading records of previous activity showing all items of recorded information

The Contractor-supplied priority control interface software shall accommodate operation via the keyboard and touchpad.

The Contractor-supplied priority control interface software shall provide menu displays to enable:

- Establishing signal intensity thresholds (detection ranges), timing parameters, modem initialization, and intersection name.
- Resetting and/or retrieving logged data and priority vehicle activity.
- Setting of desired green signal indications during priority control operation, and upload and download capability to view.
- Addressing for each card in a multi-drop connected system.
- Confirmation light configuration when optical signal processor driven.
- NEMA control parameters.

J. Optical Detector Installation Requirements

The Contractor shall install optical detector and confirmation light assemblies and shall wire each intersection as shown on the Plans and as required herein.

The Contractor shall assemble and install the optical detectors in accordance with detector manufacturer's recommendations and these special provisions.

The Contractor shall construct each optical detector mounting and confirmation light assembly from standard UL listed electrical construction hardware. Each assembly shall consist of a steel nipple with top and bottom locknuts, a four-way steel Crouse-Hinds condulet with a gasketed, screw retained cover, a short optical detector connection nipple with top and bottom locknuts, optical detector(s) and one or two screw mount incandescent flood lamp holders with flood lamps. The condulet and each flood lamp assembly shall be designed, constructed and finished for outdoor use. The flood lamp holder shall be Carlon Model P80010-HCD Nonmetallic Weatherproof Lighting System Lampholder or City of Minneapolis approved equal. Gaskets shall be provided and installed on the condulet cover and around the flood lamp base to provide a weatherproof assembly. The assembled parts shall be arranged with both condulet and terminal compartment covers facing in vehicle approach direction. Hardware shall be provided to allow signal mast arm, or pedestal mounting as indicated in the Plans.

The nipple length, optical detector position and flood light final alignment shall provide at least 6 inches of separation between the optical detector and the lamp. Reflectorized, outdoor type 40-watt flood lamps shall be provided.

After assembly, aiming, tightening and final mounting on the mast arm or pedestal pole, all extension hardware and exposed threads shall be painted the

same color as signal framework or mast arms to which they are attached. Contractor shall secure paint to insure added components match the color of supporting facilities.

All assemblies whether for one optical detector and one conformation light or for more than one optical detector or confirmation light shall utilize a 1-inch nominal condulet and nipples.

Threaded caps or plugs shall be used to cover any unused mounting holes. Optical detector unit drain holes shall be oriented as recommended by the manufacturer.

The Contractor shall mount the optical detector mounting and confirmation light assembly on the top edge of the mast arms. Mounting hubs shall be located at 2 ft., 4 ft., and 6 ft. from the end of the mast arm as shown on the Plans or as directed by the Engineer. In any event, the final mounting position shall be adjusted to provide lateral clearance between.

Traffic signal heads and traffic signs and shall be adjusted to provide a clear line of sight for priority vehicles.

The Contractor shall either have hubs for mounting attached during pole manufacturing. If hub locations are not useable the Contractor shall mount the optical detector and confirmation light assembly using a Frey Manufacturing Model KBR- ¾-inch pipe thread hub. The Contractor shall follow the manufacturers recommended installation instructions to properly align the drilled hole. Each mast arm mounting shall be installed such that the finish detector mounting shall be plumbed perpendicular to the earth.

The Contractor shall install enough cable to ensure sufficient unsliced length to connect the optical detector and confirmation light assembly fixtures at the top of signal poles or mast arms to the controller cabinet. Strain relief shall be provided in all poles for detector and indicator cables.

All field wiring shall be furnished, installed and connected to the field units. All wiring shall run to the controller cabinet and shall be coiled at the controller cabinet as directed by the Engineer. Each lead shall be taped to exclude moisture and be tagged to indicate phase and function.

K. PVDCS System Acceptance and Testing

The Contractor shall provide information describing the proposed equipment including unit specifications and certifications that the furnished equipment conforms to the manufacturer's specifications and these special provisions. The Contractor shall also conduct tests to verify the operation of the furnished materials and equipment and to verify the proper installation of system components.

After all field connections have been completed and wiring is connected at the controller cabinet, the City shall conduct component operations and aiming verification tests.

The tests shall verify that:

- The appropriate vehicles were detected and identified and that the appropriate outputs are generated.
- The zone of detection was appropriate for each type of vehicle.
- The Contractor shall have appropriately equipped personnel on-site to correct any problems associated with the Contractors work.

L. PVDCS Training and Documentation

If the PVDCS hardware and/or software is of a different manufacture than that which is currently utilized by the City, the Contractor shall provide a training session covering installation, maintenance and repair of all PVDCS components provided under this contract. The Contractor shall provide manuals for the training activities and to support the operation of the system.

The Contractor shall provide hookup and connection details as required to enable the proper operation of the PVDCS equipment in the field.

Documentation shall also be provided describing each of the PVDCS software programs furnished to meet the requirements of this project.

It is understood that the programs provided for this project are the property of the Manufacturer or others. The programs provided shall, however, be for unlimited licensed use by the City of Minneapolis. It is also required that the City be permitted to make any number of copies of the program for use by City forces. The City shall not distribute or otherwise make available copies of the program or programs to any other party unless specifically authorized by the Manufacturer or owner of the software.

M. PVDCS Measurement and Payment

Furnishing and installing materials and electrical equipment as specified herein, all to provide an installed and successfully tested Priority Vehicle Detection and Control System at each intersection shall be considered incidental work to each new permanent traffic control signal system and no direct compensation shall be made therefore.

SS-1.7 Method of Measurement and Payment

A. Purpose

This section shall define the bid items and the manner in which payment will be made to the Contractor.

B. Miscellaneous Work, Equipment, and Material

Items of miscellaneous work, equipment and material will be required to construct each system including such items as flagmen and traffic control personnel, traffic cones, markers, flashers, barricades, bolts, nuts, washers, electrical wire, etc. In each case where these items or similar miscellaneous items are necessary to the completion of the project in a safe and reliable fashion, their provision, use and installation by the Contractor shall be considered included in the various associated items of work and no direct payment will be made therefor.

The Contractor shall not receive full payment for the installation of any traffic signal system nor will the City take over maintenance responsibility for the signal system until the City of Minneapolis performs a punch list inspection of the installed facilities and all noted discrepancies are corrected by the Contractor to the satisfaction of the City.

C. Measurement

1. Furnishing and installing all materials and electrical equipment (except for an intersection traffic signal cabinet complete with controller unit and all required signal control equipment which will be furnished and installed by the City of Minneapolis); all to provide complete fully operational Traffic Control Signal Systems “A”, “B”, “C”, “D”, “E”, “F” and “G” in Minneapolis as contained in these Special Provisions and in the Plans will be measured as an integral unit complete in place and operating.

2. Removing and salvaging an existing traffic control signal system at: Systems “A”, “B”, “C”, “D”, “E”, “F” and “G” as contained in these Special Provisions and in the Plans will each be measured as an integral unit.

   Removal of asbestos containing electrical conduits (transite) shall be paid as part of the lump sum cost for Salvage Signal System.

D. Basis of Payment

1. Payment for traffic control signal system installation shall be in accordance with MnDOT 2565.4 and MnDOT 2565.5 respectively for a Fully Operational Signal System. Payment shall be compensation in full for all costs of furnishing and installing signal equipment, poles, pedestals, luminaires, foundations, conduit, handholes, cable, signal service and equipment, and all incidentals in accordance with the following schedule at the appropriate contract bid price for the specified unit of measure.

ITEM NO.	DESCRIPTION	UNITS
2565.516	Traffic Control Signal System "A"	Signal System
2565.516	Traffic Control Signal System "B"	Signal System
2565.516	Traffic Control Signal System "C"	Signal System
2565.516	Traffic Control Signal System "D"	Signal System
2565.516	Traffic Control Signal System "E"	Signal System
2565.516	Traffic Control Signal System "F"	Signal System
2565.516	Traffic Control Signal System "G"	Signal System

2. Payment for removing and salvaging existing traffic control signal systems shall be in accordance with MnDOT 2565.4 and MnDOT 2565.5 respectively Salvage Signal System. Removing and disposing of traffic signal foundations and handholes containing asbestos shall be included in the lump sum price per system. Payment shall be compensation in full for all costs of salvaging, removing and disposing of signal equipment, poles, pedestals, luminaires, foundations, conduit, handholes, cable, service cabinets, hazardous materials, and all incidentals in accordance with the following schedule at the appropriate contract bid price for the specified unit of measure.

ITEM NO.	DESCRIPTION	UNITS
2104.601	Salvage Signal System "A"	Lump Sum
2104.601	Salvage Signal System "B"	Lump Sum
2104.601	Salvage Signal System "C"	Lump Sum
2104.601	Salvage Signal System "D"	Lump Sum
2104.601	Salvage Signal System "E"	Lump Sum
2104.601	Salvage Signal System "F"	Lump Sum
2104.601	Salvage Signal System "G"	Lump Sum

SS-2 (2565) TRAFFIC CONTROL Interconnection

This work shall consist of installing all materials and equipment as shown on the Plans, to provide a complete, operating communication line between the following traffic signal control systems:

> Interconnection of Systems "A" through "G" along XXX street and XXX Avenue and to each other, and installing or removing and reinstalling interconnect to other signal systems as shown on the Plans.

The electrical system shall comprise all of the work shown in the Plans including, but not limited to, installing the conduit, handholes and interconnect cable into the controller cabinets via handholes and conduits, and removal of the inplace communication cable, all in accordance with the Specifications, except as shown or noted in the Plans and modified in these Special Provisions.

Removal and disposal of the existing interconnect conduit and handholes shall be paid for under separate bid item. Existing interconnect cable removal shall be incidental to the Traffic Control Interconnect installation bid item.

SS-2.1 Electrical (Communications) System

The in place and new communication system within the project area shall be located in in place or new conduit as noted in the Plans. In place communication cable shall remain in place and in operation until such time as the in place traffic signal systems are turned off, a roadway is closed and the various interconnect functions are no longer necessary.

A. Removal of In place Communications Cable

Prior to removal of the existing communications system, the City of Minneapolis shall be notified so that appropriate steps may be taken to disconnect communications equipment at adjacent traffic signal installations. The communications cables shall be disconnected at each control cabinet by City forces, and with the approval of the City may then be removed by the Contractor.

Salvaged cable shall be coiled and tagged in accordance with the requirements of SS-1.4.

B. (2565.603) XX Pair Conductor, Number 19

Communication cable shall be a XX Pair conductor, No. 19 AWG Cable as noted in the Plans. The cable shall be a multi-conductor, grease-filled, telephone cable designed for conduit and direct burial application.

The cable shall be double jacketed and conform to a modified version of the requirements of Rural Utilities Service (RUS) Specification 1755.390 latest edition. The specification modification consists of provision of double

jacketing with the inner and outer jackets constructed in conformance with the requirements of ANSI/ICEA S-84-608-1988 paragraph 7.1 and 7.2.

Individual conductors shall be solid and No. 19 AWG. There shall be a single shield that shall be either fully annealed solid copper, Alloy 194, or fully annealed copper-clad stainless steel.

The following summarizes the primary requirements:

1. XXX Pair No. 19 AWG.

2. The cable is fully color-coded so that each pair in the cable is distinguishable from every other pair.

3. Each conductor shall be a solid round wire of commercially pure annealed copper.

4. Each conductor shall be insulated with a colored, solid insulating grade, high-density polyethylene or crystalline propylene/ethylene copolymer.

5. The insulated conductors shall be twisted into pairs. The twisted pairs shall be assembled in such a way as to form a substantially cylindrical group (cable core).

6. A petrolatum-polyethylene filling compound shall completely coat each insulated conductor and fill the air space between the conductors.

7. The cable core shall be completely covered with a layer of nonhydroscopic and nonwicking dielectric material. The covering shall be applied with an overlap.

8. An inner jacket applied over the cable core covering. The jacketing grade material used for the inner jacket shall be low density, high molecular weight polyethylene in accordance with ANSI/ICEA S-84-608-1988 paragraph 7.1/7.2.

9. A single corrugated metal shield shall be applied longitudinally with an overlap over the inner jacket. The metal shield shall be for "Gopher Resistant Cable" and shall be either **10-mil fully annealed solid copper, 6-mil 194 Alloy, or 6-mil fully annealed copper clad stainless steel**.

10. An outer jacket shall be applied over the metal shield and inner jacket. The jacketing grade material used for the outer jacket shall be low density, high molecular weight polyethylene in accordance with ANSI/ICEA S-84-608-1988 paragraph 7.1/7.2.

11. The cable shall be marked on the outer jacket with product description, year of manufacture, and sequential footage marks at two-foot intervals.

The City of Minneapolis Traffic and Parking Services shall be provided the opportunity to review and approve or disapprove the proposed communications cable before it is installed.

C. Installation of Communications Cable

Interconnect cable runs shall be installed as continuous runs, unless splices are specified. Approximately six (6) feet of slack cable shall be provided in each handhole through which the run of interconnect cable passes. Each interconnect cable entering the controller cabinets shall provide six (6) feet of slack cable within the controller cabinet and shall be permanently labeled as "East" or "West" or "North" or "South" to identify the direction of interconnect cable run. Such identification shall be affixed immediately on installation of the cable into the cabinet foundation. **A pull rope, approved by the City, shall be installed in each conduit along with each run of communication cable.**

D. Communication Handholes (Pull Boxes)

All interconnect handholes shall be the the Minneapolis standard communication HDPE rectangular fiber vault handhole per Minneapolis standard plate TRAF-2710-R2 and installed per Mpls standard plate TRAF-2715-R1. Any old steel handholes containing interconnect and disturbed by the project shall be replaced with the aforementioned HDPE vault.

SS-2.2 Method of Measurement and Payment

A. Measurement

Furnishing and installing all materials to provide a complete, useable interconnect system as contained in these Special Provisions and in the Plans will be measured as described below.

The Contractor shall not receive full payment for the installation of any traffic signal interconnection system until the City of Minneapolis performs a punch list inspection of the installed facilities and all noted discrepancies are corrected by the Contractor to the satisfaction of the City.

B. Payment

The conduit, handholes, cable system, pull rope and miscellaneous work, equipment and material required to construct each Traffic Control Interconnection System shall be paid for as listed below. Payment at the contract unit price shall be compensation in full for all costs of furnishing and installing all materials and incidentals required to provide the system as specified and as shown in the Plans.

ITEM NO.	DESCRIPTION	UNITS

2565.501 Traffic Control Interconnection Lump Sum

SS-3 (3815) Fiber Optic Cable

SS-3.1 Fiber Optic Cable and Testing

This work shall consist of furnishing and installing a fiber optic cable of the type, size and number of fibers specified.

A. General Requirements

1. Materials and Equipment
   Materials and equipment shall be the standard products of a manufacturer regularly engaged in the manufacture of the products.

2. Contractor Qualifications
   Trained and experienced personnel shall supervise the fiber optic cable installation. Qualified technicians shall make the cable terminations and splices. The Contractor upon request of the Engineer shall provide documentation of qualifications and experience for fiber optic equipment installations. The Engineer shall determine if the Contractor is qualified to perform this work. The Contractor shall have attended a certified fiber optic training class mandated by these specifications prior to starting work.

3. Codes Requirements
   The fiber optic cable installation shall be in accordance with or exceed all minimal requirements of State codes, National codes, and manufacturer codes as applicable.

4. Miscellaneous Equipment
   The Contractor shall furnish and install all necessary miscellaneous connectors and equipment to make a complete and operating installation in accordance with the Plans, standard sheets, standard specifications, special provisions, and accepted good practice of the industry.

5. General Considerations
   The cable shall meet all requirements stated within this specification. The cable shall be new, unused, and of current design and manufacture.

6. Shop Drawings
   The Contractor shall furnish to the Engineer, for approval by the City of Minneapolis Traffic and Parking Services, electronic pdf file and specificationof the fiber optic cable and glass type. Upon request, the Contractor shall supply a sample of the proposed cable to the City.

7. Fiber Cable Requirements

a. Single Mode 24 Fiber - Fiber Optic Cable
The fiber optic cable shall be OFS ALLWave, Corning or City of Minneapolis approved equal conforming to the following specifications. The fiber optic shall be manufactured utilizing Corning or OFS glass fiber conforming to the following specifications. All materials and equipment furnished shall be completely free from defects and poor workmanship. All fibers shall be glass and be manufactured by Corning, OFS or City of Minneapolis approved equal. The cable shall be rated for gigabyte data bandwidth.

All fiber shall be loose tube construction for both indoor and outdoor installation. Where indoor cabling is specified, the indoor cabling shall use plenum rated conduit to within less than 50 foot of point of termination eliminating the requirement to convert to indoor cable.

All fibers in the cable must be usable fibers and meet required specifications.

- Single-Mode Fiber
- Typical core diameter: 8.3um
- Cladding diameter: 125 +1.0um by fiber end measurement
- Core-to-cladding offset: <1.0um
- Coating diameter: 250 +15um
- Attenuation uniformity: No point discontinuity shall be greater than 0.1 dB, except terminations or patch cords, at either 1310nm or 1550nm. The coating shall be a layered UV cured acrylate applied by the fiber manufacturer. The coating shall be mechanically or chemically removable without damaging the fiber.
- Factory cable rating shall be 0.35 dB/KM at 1310 nM and 0.25 dB/KM at 1550 nM. Installed tolerance shall be less than 0.44 dB/KM at 1310 nM and less than 0.33 dB/KM at 1550 nM, testing tolerance.
- All fiber cables shall be Gigabyte rated, i.e. single mode shall be 28 KM for 1310 nM and 40 KM for 1550 nM based on a 10 dB power budget.
- All Single mode fiber shall be rated for multi-frequency, four frequencies, equivalent to the AllWave OFS specification and shall be rated to withstand extended aging under water impregnation conditions.

All fibers in the cable shall meet the requirements of this specification. The testing tolerance attenuation specification shall be a maximum

attenuation for each fiber over the entire operating temperature range of the cable when installed.

The change in attenuation at extreme operational temperatures for single-mode fibers shall not be greater than 0.20 dB/km at 1550 nm, with 80 percent of the measured values no greater than 0.10 dB/km at 1550 nm.

Optical fibers shall be placed inside a loose buffer tube, twelve (12) fibers per tube.

The buffer tubes will meet EIA/TIA-598, "Color coding of fiber optic cables."

Where multimode fiber is specified, single-mode fibers shall be placed in the first buffer tubes with multimode fibers in the remaining buffer tubes following single mode. Fiber count, tubes of fiber, shall be as specified on the Plans.

Fillers shall be included in the cable core to lend symmetry to the cable cross-section where needed.

The central anti-buckling member shall consist of a glass reinforced plastic rod.

The cable shall use a completely dry cable design without the use of gels and filling compounds. Dry water blocking material shall be used around the buffer tubes as well as internal to the tubes. Water blocking gels shall not be acceptable on this project. Gel, a.k.a. "icky-pic", shall not be acceptable for this project.

Buffer tubes shall be stranded around a central member. Acceptable techniques include the use of the reverse oscillation, or "SZ", stranding process.

All dielectric cables (with no armoring) shall be sheathed with medium density polyethylene. The minimum nominal jacket thickness shall be 1.4 mm. Jacketing material shall be applied directly over the tensile strength members and flooding compound. Cable jacketing shall utilize the newer designs to provide maximum flexibility without loss or appreciable dB attenuation. Cable diameter shall not exceed 0.50 inch.

The jacket or sheath shall be marked with the manufacturer's name, the words "optical cable", the year of manufacture, number of fibers, type of fiber (SM or MM) and sequential feet or meter marks. The markings

shall be repeated every one-meter or three feet. The actual length of the cable shall be within –0/+1% of the length marking. The marking shall be in a contrasting color to the cable jacket. The height of the marking shall be approximately 2.5 mm. A copy of the manufacturer fiber definition and shipping sheet identifying all tests, results and fiber indexes shall be provided to the Engineer on delivery of cable to the City or shall be included with a Contractor's listing of place(s) of installation when installed by a Contractor.

Buffer tube and fiber color coding shall be as follows:

Buffer Tube/Fiber	Tube/Fiber Color
#1, 1st tube or fiber	blue
#2, 2nd tube or fiber	orange
#3, 3rd tube or fiber	green
#4, 4th tube or fiber	brown
#5, 5th tube or fiber	slate
#6, 6th tube or fiber	white
#7, 7th tube or fiber	red
#8, 8th tube or fiber	black
#9, 9th tube or fiber	yellow
#10, 10th tube or fiber	violet
#11, 11th tube or fiber	rose
#12, 12th tube or fiber	aqua

All optical fibers shall be proof tested by the fiber manufacturer at a minimum load of 100 kpsi.

All optical fibers shall be 100% attenuation tested at the manufacturer. The attenuation of each fiber shall be provided with each cable reel. The measured attenuation shall be for both 850 and 1300 frequency for multimode and 1310 or 1550 frequency for single mode. This documentation shall be provided with each spool. The Contractor shall designate on the Plans and on this documentation the location where each spool has been installed and provide this data to the Engineer.

b. Single Mode 6 Fiber Armored - Fiber Optic Cable
The Fiber Optic Cable Assemblies for Fiber Optic Cable shall comply with USDA RUS CFR 1755.900 (Specification for Filled Fiber Optic Cables) shall be shown on the MnDOT Qualified Products List and shall comply with the following provisions:

- Fiber Optic Cable shall be designed for outdoor use and direct bury
- Include a dielectric central strength member.
- Armored with corrugated steel tape.

- Minimum of a 1.3 mm thick Medium Density Polyethylene outer jacket;
- Include two ripcords. One ripcord under the armor and one ripcord under the inner jacket.
- Outside diameter of < 23 mm (0.906 inch).
- Indented markings on one-meter (three-foot) intervals showing the manufacturer, fiber count, MnDOT part number, mode, and length in meters.
- Buffer Tubes
  Filled with fibers according to the following:
  - For < 48 fibers there shall be 6 fibers per buffer tube.
  - For > 48 fibers there shall be 12 fibers per buffer tube.

Constructed for direct burial applications per the above referenced USDA specification.

Color-coded per ANSI, TIA, EIA 598A, thermoplastic, and gel filled.

Have an outside diameter ranging from 1.9 mm (.075 inch) to 3.0 mm (0.118 inch).

Stranded around the dielectric central strength member using the reverse oscillation stranding process.

Covered with water blocking tape.

Dielectric strength members (yarns) woven longitudinally between the outside of the Buffer.

Tubes and the inner jacket.

- Inner Jacket
  Made of Medium Density Polyethylene.
  Minimum of 0.50 mm (0.02 inch) thickness.
  Applied directly over tensile strength members and water blocking material.
- EIA Class IV SM Fibers
  Can be mechanically stripped.
  Diameter of the cladding shall be 125 µm ± 1 µm.
  Diameter of the coating shall be 245 µm ± 10 µm.
- Coating shall be a dual layer of acrylate coating in physical contact with the cladding surface;
- SM fibers shall have a ZDW of 1300 to 1321.5 nm.
- Cutoff wavelength < 1260 nm.
- Maximum attenuation at 1310 nm shall be 0.35 dB/km and 0.25 dB/km or less at 1550 nm.

- Attenuation requirements shall be measured along the cable axis.
- Mode field diameter shall be between 8.8 and 9.8 μm at 1310 nm and between 9.9 and 10.8 μm at 1550 nm.
- Maximum dispersion shall be < 3.2 ps/nm²·km from 1285 to 1330 nm and < 18 ps/nm²·km at 1550 nm.
- Core-to-cladding offset (Core/cladding concentricity) shall be < 0.6 μm.
- Factory fusion splices shall not be allowed.

MnDOT approved 6 Single Mode Armored Fiber Optic Cables are listed on the MnDOT Qualified Products List WEB site for Fiber Optic Cables:
http://www.dot.state.mn.us/products/tms-its/fibercables.html

8. Fiber Installation

a. Cable Installed in Ducts and Conduits

A suitable cable feeder guide shall be used between the cable reel and the face of the duct and conduit to protect the cable and guide it into the duct off the reel. It shall be carefully inspected for jacket defects. Fiber optic cable feeders shall be placed at all handholes where the cable must make sharp bends or hand feeding must be done, as determined best by Contractor. If defects are noticed, the pulling operation shall be stopped immediately and the Engineer notified. Precautions shall be taken during installation to prevent the cable from being "kinked" or "crushed". A pulling eye shall be attached to the cable and used to pull the cable through the duct and conduit system. A pulling swivel shall be used to eliminate twisting of the cable. As the cable is played off the reel into the cable feeder guide, it shall be sufficiently lubricated with a type of lubricant recommended by the cable manufacturer. Dynamometers or breakaway pulling swing shall be used to ensure that the pulling line tension does not exceed the installation tension value specified by the cable manufacturer. The mechanical stress placed on a cable during installation shall not be such that the cable is twisted or stretched. The pulling of cable shall be hand assisted if needed at each handhole, or cabinet foundation. The cable shall not be crushed kinked or forced around a sharp corner. If a lubricant is used it shall be of water based type and approved by the cable manufacturer. **Prior to fiber termination, sufficient slack shall be left at each end of the cable to allow proper cable termination, minimum of 70 feet.** This cable termination slack shall be allowed for waste in fiber termination procedure. Cable installed with less than the specified slack shall be replaced for the entire length by the Contractor. If Contractor wishes, and city agrees, and short cable

meets good light test measures, contactor may opt to settle for 50% payment of fiber optic cable (for the length of fiber optic cable with too little slack) in lieu of replacement of entire length and retesting and reterminating.

All fiber terminations and splices shall be performed by City of Minneapolis.

b. Fiber Optic Cable Marking Conductor
Along with the fiber optic cable, one (1) #10 AWG THHN, 600 volt single conductor cable (identifier conductor/tracer wire), orange in color, shall be pulled with ten feet (10') slack in each handhole where slack fiber cable is required. All tracer wires shall be spliced together in the fiber hub cabinet or traffic signal cabinet. Each tracer wire shall be taped to its associated fiber-optic cable and/or labeled to indicate the tracer wire direction. All tracer wires shall be terminated to the grounding electrode system. Pull rope shall be included with tracer wire.

c. Fiber Optic Cable Labeling.
Inside each handhole and inside each cabinet, the Contractor shall place a metallic label on each fiber optic cable. The fiber optic cable label, shall indicate the direction the cable is going, cable contents [SM or SM/MM], and the abbreviated location for the other end destination. Cabling between traffic controllers and adjacent hub locations shall, typically, be Cat 5-E patch cords. Where distances are long, the cabinets will be connected by fiber optic cable, as shown in the Plans.

d. Minimum Bend Radius
For static storage, the cable shall not be bent at any location to less than ten times the diameter of the cable outside diameter or as recommended by the manufacturer. During installation, the cable shall not be bent at any location to less than twenty times the diameter of the cable outside diameter or as recommended by the manufacturer.

e. Fiber Optic Cable Testing
After fiber termination is complete, Contractor shall test all fibers. Non-terminated fibers shall be tested with an OTDR. Terminated fibers shall be tested with a power meter and with an OTDR. The Contractor may jumper termination points at controller cabinets to minimize the number of tests and run a single OTDR test between several controller cabinets, subject to the range of the OTDR. Contractor shall not jumper through hub

sites. Multimode fiber, when specified, shall be tested using 1300 nm and single mode fiber shall be tested at 1310 nM. Outdoor patch cords between hubs and controller units do not need be OTDR tested. Note to Contractor: Fiber cleaning time should be low. This is a dry-fill (non-gel) cable.

Any tests which can be field identified as out of range shall be tracked down and corrected. Additional tests may be run after each correction. Splices will not be allowed to repair a damaged section. When a satisfactory light wave test results, only the final test result need be submitted. The Contractor shall record the fiber optic cable name (end to end destination), the length of the OTDR begin test cable, the physical length of each fiber optic cable, the location of temporary jumper patch cords, if used, and the length of the OTDR end test cable.

Contractor shall provide the power meter test results and the OTDR test results to the City. The results of the OTDR test shall be provided on an electronic media (disk) and paper printout. Each OTDR trace, for documented test result submittal, shall be displayed individually and not be combined with other fiber traces as overlays. The OTDR wave, pictorial diagram of dB loss over the length of fiber tested, shall be provided along with the measured data values. The printout shall contain the manufacturer's fiber optic Index of Refraction to the third decimal point for the fiber provided. The Contractor shall provide a working copy of the program to view and set measurements of the electronic test data based on the OTDR device used for the fiber optic testing.

Documentation provided to the Engineer by Contractor shall include a written indication of every splice, termination, and patch cord for cable being measured. Power meter measurement recordings shall indicate the exact measured distance [OTDR or field measurement with cross reference for oscillation multiplier] on the sheet showing the power meter readings. Any deviations between fiber readings in the same tube shall be noted for OTDR graphs as well as deviations greater than 5% on power meter readings. Rated values for acceptable installation shall be based on the following parameters:

Patch cords/Pigtails	.60 MM & .15 SM dB each
Unicam Terminations	1.0 dB set of 2 [In and Out]
Splices	0.08 each

1 KM = 0.3077 KF where KF is 1000 feet

Data documentation shall include for each test between cabinets or between FDP sites, the length of fiber as measured by OTDR, frequency used in test on OTDR by each fiber type, distance to each splice, termination or patch cord jumper, dB loss rating by manufacture from spool documentation, index of refraction by type of fiber in section, and the dB loss of each section as measured in the final test for each fiber. Contractor OTDR testing shall be performed after City of Minneapolis has completed all terminations and splicing on the fiber optic system.

f. Cable Termination

Fiber optic terminations shall be performed by City of Minneapolis Traffic Department.

g. Breakout Kits

The breakout kits or termination boxes used to terminate each fiber cable in the cabinet shall provide for the separation and protection of the individual fibers with the buffer tubing and jacketing materials. The termination housing shall be installed within a wall or shelf mountable interconnect housing which shall provide for storing fibers, ample room for feed through cable, strain relief for multiple cables within unit, and accommodate LC compatible connectors. All fiber pigtails shall be terminated through LC connectors on the wall or shelf mounted interconnect panel. All terminations shall be LC type, ceramic core (outdoor connections), and plug into the provided controller unit internal fiber optic modem. Acceptable enclosures for combination termination/splice points shall be AFL splice kit consisting of the following components with AFL part numbers and quantites listed: (4) FUSE-LC-9U-SMU-6FUSECONNECT LCU 900UM SM-6 PACK, (1) APQ1SBLZ ADAPTER PANEL 24fLCU DPLX SM, (2) C189818 FAN OUT KIT-12 FIBER LOOSE TUBE, (1) WMEO1E ENCLOSURE WALL MOUNT 1 ADAPTER PANEL, (1) FM003388 DIN RAIL CLIP, and one patch cord included with each kit or City of Minneapolis approved equal fiber splice kit. Four of the aforementioned splice kits shall be provided for each fiber hub cabinet on the project. At each signal system where no fiber hub is present, one kit per fiber cable entering the traffic signal cabinet shall be provided. All splices, not specified to be installed external to the fiber splice tray, shall be installed in splice trays and be supported with heat shrink tubing. Acceptable splice trays include AFL per above specifications or City of Minneapolis approved equal.

All splices shall be made above ground in either a fiber hub cabinet or traffic signal cabinet. For every fiber cable termination, two LC-LC patch cords shall be provided. Where a patch cord with termination block is specified, shown on the wiring diagrams, all fibers for each block utilized shall be fusion spliced from a single fiber cable, such that one block is for 'incoming' fibers and a second block is for 'outgoing' fibers. Each termination block shall be uniquely identified in the cabinet as to the location the fiber is coming "FROM". All fiber splices will be performed by City of Minneapolis Traffic Department.

h. Connectors

Connectors shall be mechanical LC (ceramic ferrule-outdoor connections) compatible, field installable, and self-aligning and centering. Connectors to the special devices used for Ethernet network connections shall utilize a factory converter cable, such as a SC to ST or manufacturer specified converter patch cord. Fiber optic equipment, used for terminating fibers, shall be rated for the type of connectors used. Connectors shall be Siecor CamLite, UniCam, or City of Minneapolis approved equal.

i. Splices

Fiber splices shall be performed by City of Minneapolis Traffic Department with contractor supplied materials.

9. Payment

Payment shall be according to the payment schedule indicated in the Scope of Work.

The Contractor shall not receive full payment for the installation of any fiber optic cable system until the City of Minneapolis performs a punch list inspection of the installed facilities and all noted discrepancies are corrected by the Contractor to the satisfaction of the City.

Contractor shall bid this item as

"24 Fiber Single Mode Fiber Optic Cable", Lineal Foot

The unit price shall include the cost of furnishing and installing the fiber optic cable and the fiber optic cable marking cable, fiber pigtails, cable

splicing, cable terminating, cable termination facilities, cable testing, special testing and report generation. Contract specified cable slack will be paid for at the contract unit price. Excess slack beyond contract specified amount will receive no excess payment.

SS-3.2 Fiber Optic Hub Cabinet

A. Construction

1. The fiber optic cabinet shall be weather proof, ground mounted, and of rigid construction fabricated from 0.125 inch thick aluminum conforming to the requirements of ASTMB 209 for 5052-H32 aluminum sheet. The cabinet shall be clean in design and appearance and have the following dimensions.

HEIGHT 63 inches
WIDTH 33 inches
DEPTH 17 inches

The cabinet enclosure shall be of good workmanship. All seams and joints shall be made smooth and even, without cracks, air leaks or pinholes. The cabinet vertical sides shall be of one continuous piece construction or shall have vertical edges joined with butted-formed flanges. Flanges shall be continuously welded, on the inside of the cabinet and sealed on the outside. There shall be no sharp or jagged edges. All interior and exterior seams shall be continuously welded and ground smooth. Sharp edges shall be filed.

The cabinet enclosure top shall be slanted 2 inches to the rear to prevent standing water and shall provide an overhang above the door at least 3 inches beyond the front of the cabinet.

Pop rivets shall not be used in the construction of the cabinet, nor in the attachment of hinges, doors, handles, or locks except as specifically permitted.

The cabinet enclosure (physical enclosure only) shall be UL listed with the UL label affixed to the inside of the cabinet, and shall carry a NEMA 3R rating to provide a degree of protection against rain, sleet, snow, and dripping water.

2. The cabinets shall have minimum 2 1/2" flanges on the inside bottom of the unit with 7/8" holes for anchor rods in the cabinet corners, as shown on drawing labeled Cabinet Enclosure Corner Brace.

3. A gasket shall be provided for mounting the cabinet enclosure on a concrete pad. The gasket shall consist of four (4) strips of 3/8-inch thick solid butyl rubber, similar to that used for industrial conveyer belts. Two (2) of the strips shall be 2.5 inches wide x 17.5 inches long, with slotted holes drilled at 15 inches center to center along the length of the strip. The slotted holes shall be centered across the width of the strip, so as to line up with the mounting holes in the cabinet enclosure bottom flange. The remaining two (2) strips shall be 2.5 inches wide x 30.25 inches long, with no holes drilled.

4. The cabinet shall have a screened rain-tight vent assembly at the top front of the cabinet. The vent assembly; shall run near the top of the front panel of the cabinet from side to side; shall be baffled to resist entrance of water into the cabinet, and shall provide drainage for any water entering the vent.

5. The cabinet shall have a reinforced, hinged full size door which, when closed, makes the cabinet weather resistant and dust tight. The door shall have a tumbler lock for a Minneapolis standard No.2 traffic signal key.

   All four sides of the cabinet full size door opening shall have a formed double flange.

   The door shall be equipped with a three point locking mechanism which is operated from a single easy turning handle. The upper and lower locking points of the three point locking mechanism shall each have a pair of nylon rollers.

   The door handle shall be a removable ¾ inch diameter stainless steel L-shaped hexagon rod. The handle receiver in the 3-point lock assembly shall contain a center pin, which shall be compatible with a drilled hole in the stainless steel handle. Handles and lock assemblies shall be compatible with existing City of Minneapolis cabinets. (It shall be the responsibility of the cabinet supplier to ensure compatibility). The door shall contain a swing-away cover over the handle attachment hole in the door to prevent the entry of rain and snow.
   A multi-position bar stop shall hold the door open at approximately 90, 135, and 180 degrees from a closing position. The stop shall slide in a U-shaped guide along the bottom of the inside front of the cabinet.

The cabinet door shall be mounted with three (3) separate heavy-duty gauge butt hinges and mounting bolts to allow replacement of the door if damaged. Each hinge shall have 0.25-inch minimum stainless steel hinge pin.

Hinge placement shall be such that cabinet doors are interchangeable between cabinets.

All hinges, hinge pins, and locks shall be constructed of stainless steel.

The cabinet full-size door shall open to the right. When the door is closed and latched the door shall lock. The lock shall have a swing-away cover over the lock to prevent entry of ice and snow and shall be provided with two keys.

A tinned copper braided grounding conductor, properly terminated, shall ground the cabinet main door to the cabinet enclosure.

The full size door shall be gasketed with a good grade closed cell neoprene gasket attached to the door which, when closed, provides a dust tight, weather resistant seal.

6. Vertical mounting channels shall be welded to interior cabinet walls to provide adjustable shelf and panel locations. Sufficient mounting hardware shall be included to mount city supplied panels.

   The cabinet enclosure shall be equipped with four (4) channels on each sidewall and three on the back wall of the cabinet enclosure. The mounting channels shall be Unistrut A4000EA and shall extend to 2” from bottom of cabinet to 2” from the cabinet roof. Each of these channels shall be welded to the cabinet in at least 5 spots. The back wall shall include an additional 4” wide continuously welded vertical channel as a stiffener to provide rigidity to the back wall.

7. The cabinet layout of the shelves, panels and equipment for this equipment application shall allow space for placing equipment on the shelves so as to provide for ease of installation and removal of the equipment and for ease of viewing of the front panel displays of the equipment.

   All equipment mounted on the sidewalls of the cabinet shall be located in positions that will not interfere with the removal of other equipment, either shelf or rack mounted. Electrical equipment and terminal facilities mounted on the inside side walls and back wall of the cabinet shall be mounted on 0.090" aluminum panels with brass round head screws. The metal panels shall be attached such that no screws, bolts, pop rivets, or other fasteners go through the outside shell of the cabinet.

All panels shall be mounted such that a minimum clearance of 4 inches from the bottom of the cabinet is maintained.

Panels shall not have sharp or jagged edges or corners.

Uninsulated 120-volt parts of any electrical equipment inside the cabinet shall be suitably covered with Lexan and a warning label to prevent electrical shock. Lexan covers shall be held in place by large plastic or nylon wing nuts.

8. The cabinet shall be provided with adjustable shelves. The shelves shall fit the full width of the cabinet and shall be at least ten and one half inches in depth.

   The shelves shall be ventilated with punched holes or fabricated from an aluminum mesh material to provide airflow. If punched holes are used each shelf shall contain twelve (12) holes, each 1.25 inches in diameter evenly distributed across the shelf in two rows.

   A documentation shelf 15 inches wide by 10 inches deep shall be hung from the bottom side of the lower shelf. The document shelf shall provide 1" of document insertion space.

9. Two LED light fixtures shall be provided. One fixture shall be mounted on the inside near the top of the cabinet above the full-size door opening. The second fixture shall be mounted on the underside of the lower shelf. The fixture shall be centered on the long dimension of the shelf. Each fixture shall be UL listed, shall have multiple LED's and be Relume Technologies Model 796-5000, or GE Lumination Tetra Power Grid GEWHPGP6-65K or equivalent. The fixture shall be capable of being easily removed and replaced without interference with other components in the cabinet. The light fixture shall be of a rugged design.

   The light fixture shall be activated by a 2 position toggle switch located on the auxiliary switch panel and labeled "LAMP ON - OFF". The power for the light fixture shall be supplied through the accessory circuit breaker.

   The lamp mount position shall not interfere with the insertion or removal of equipment to be installed on the top shelf.

10. A thermostatically controlled fan assembly containing two (2) fans, a thermostat for controlling the fans, and a 4-point "Non-feed thru Terminal Block" shall be located in the top front of the cabinet in a plenum assembly and shall exhaust air out through the screened vents built into the roof door overhang of the cabinet. Each fan shall be rated

for 100 cubic feet per minute air movement and a maximum noise level of less than 40 decibels. Fan guards shall be provided to prevent anyone from putting their fingers into the fan. Each fan motor shall have thermal locked rotor protection or shall be impedance protected. The fan thermostat shall be located in the inside top of the cabinet adjacent to the outside wall of the plenum and be adjustable within the minimum range of from +75 degrees to +150 degrees Fahrenheit. Fan attachment hardware shall have anti-sieze compound added to the threads prior to assembly.

The cabinet shall be supplied with a cabinet heater and cabinet heater fan, both shall be controlled by a separate thermostat with a near freezing turn on temperature range. The cabinet heater shall be 500 watts. The cabinet heater fan shall circulate cabinet air past the heating element to maintain even cabinet air temperature.

The fans shall be separately fused and powered by the auxiliary breaker on the power panel assembly. The fan assemblies shall be provided with connectorized power connections. Exposed terminals on the thermostats shall be covered by insulation to prevent accidental contact with 120 VAC circuits. If the adjustment screw of the thermostats is covered by the insulation, a hole or door shall be provided to allow adjustment of the thermostats while giving protection from accidental contact with the 120 VAC.

Louvers shall be located in the lower portion of the main cabinet door for air intake. The louvers shall be centered horizontally in the door and be placed in four (4) columns of ten (10) louvers, spaced 1-inch apart, covering a total area of approximately 22 inches wide by 10 inches high. The louvers shall be backed by a size 12 inches by 24 inches by 1-inch thick replaceable type foam panel type dust filter (Viskon-Aire, Air Filter Products, Series “55” panel filter, tacky side in: or City of Minneapolis approved equal) which shall be held in place by formed angle brackets into which the filter is dropped from above as shown on the drawing labeled “Door Stiffener/Air Filter Bracketing”.

The bracket supporting the bottom of the filter shall be 11 inches from the bottom of the door. The upper movable bracket shall be equipped with a piano hinge tack welded to the cabinet door. The bracket shall be able to be rotated 90 degrees on the piano hinge for ease of filter installation and removal. The hinged bracket shall be held in place through use of a tensioning spring attached between the bracket end and a tensioning point on the cabinet door.

The upper and lower supports shall have the inner edges fitted with ¾-inch wide, ¼-inch thick bristle type fiber gaskets to insure a tight fit of the filter between the bracket and the door.

To block airflow in cold weather a metal weatherproof cover shall be provided to adequately cover the louvers on the full size door. The cover shall be gasketed and installed from the inside of the cabinet in the filter-mounting bracket, which shall force the louver against the back of the door.

11. Cabinet lifting provisions shall meet the UL requirements for the NEMA 3R cabinet. The lifting provisions shall consist of aluminum lifting ears mounted to extend above the top of the left and right sides of the cabinet enclosure, allowing a bar or hooks to be inserted through both ears for lifting the cabinet.

    The lifting ears shall have a lifting capacity equal to the weight of the completely wired cabinet plus 25 percent, 500 pound capacity minimum. Each lifting ear shall have a 1 inch hole, the bottom of which shall be flush with the top of the cabinet or above the top of the cabinet less than 1/8 inch. The top of the lifting ear shall extend no more than four (4) inches above the top of the cabinet at the point where the ear is attached. The lifting ears shall be centered on the cabinet side walls such that the cabinet will not pitch or tilt when lifted. The lifting ears shall be secured to the cabinet by means of corrosion resistant bolts, allowing the ears to be inverted to conserve space during shipping and storage. The positioning of items mounted inside the cabinet shall not restrict access to the bolts.

12. The cabinet shall have termination for incoming 120 volt AC power, grounding and neutral. The cabinet shall have a power surge suppressor and power line conditioner for cleaning stray voltage from the sine wave. Typically, the hub cabinet will receive unconditioned electrical power tapped from a nearby traffic signal. The cabinet shall include one hardwired 6 outlet power strip with internal circuit breaker.

13. One fiber enclosure shall be contained in the cabinet. Each fiber enclosure shall contain all trays and components necessary to terminate 24 single mode fibers and hold 24 single mode fiber splices.

14. Contractor shall provide an electronic pdf file of computer drawn cabinet diagrams showing actual cabinet wiring in a clear, water resistant, plastic pouch.

15. Each cabinet shall have an anodized etched finish (Aluminum Association C22) with an Architectural Class 1 (Aluminum Association A42) hard coat finish of at least 0.7 mil. Finish color shall be 30 minute clear aluminum.

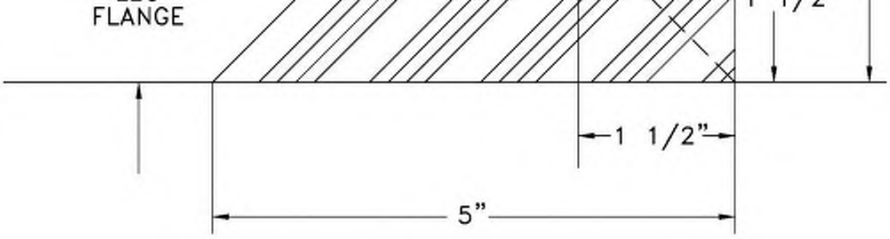
B. CAT-5E Cable

This work shall consist of furnishing and installing a category 5E cable between a traffic signal controller cabinet and a fiber optic hub cabinet. Confirming required actual length is Contractor's responsibility. Cable length shall include approximately 5 feet slack on each end to allow easy cable connection without force on the connectors. Typically the cable will be connected to an Ethernet switch at each end. The cable shall have RJ-45 connectors installed and attached at both ends. Contractor has option of installing a Cat-5E cable with pre-made connections or making connections upon installation. The Cat-5E cable shall be industrial grade, have sunlight and oil resistant jacketing and be suitable for outdoor and underground applications. The cable shall have a non-gel water block core.

The Contractor shall test all Cat-5E cables installed in the controller cabinet with a tester specifically designed for testing continuity through an RJ-45 connection. The Contractor shall provide a test report – typed or handwritten – for all Cat-5E cables in each cabinet. The test shall state the date of the test, individuals who performed test, identify each cable tested, and state whether the cable passed. All non-passing cables shall be corrected by the Contractor. Furnishing, installing, and testing of Cat-5E cables shall be incidental to the Fiber Optic Hub Cabinet pay item.

C. Payment

Fiber-optic hub cabinets shall be installed as shown in the Plans. The cost of furnishing all materials and labor necessary to perform the work described above shall be paid for as **"Fiber Optic Hub Cabinet", Each**.

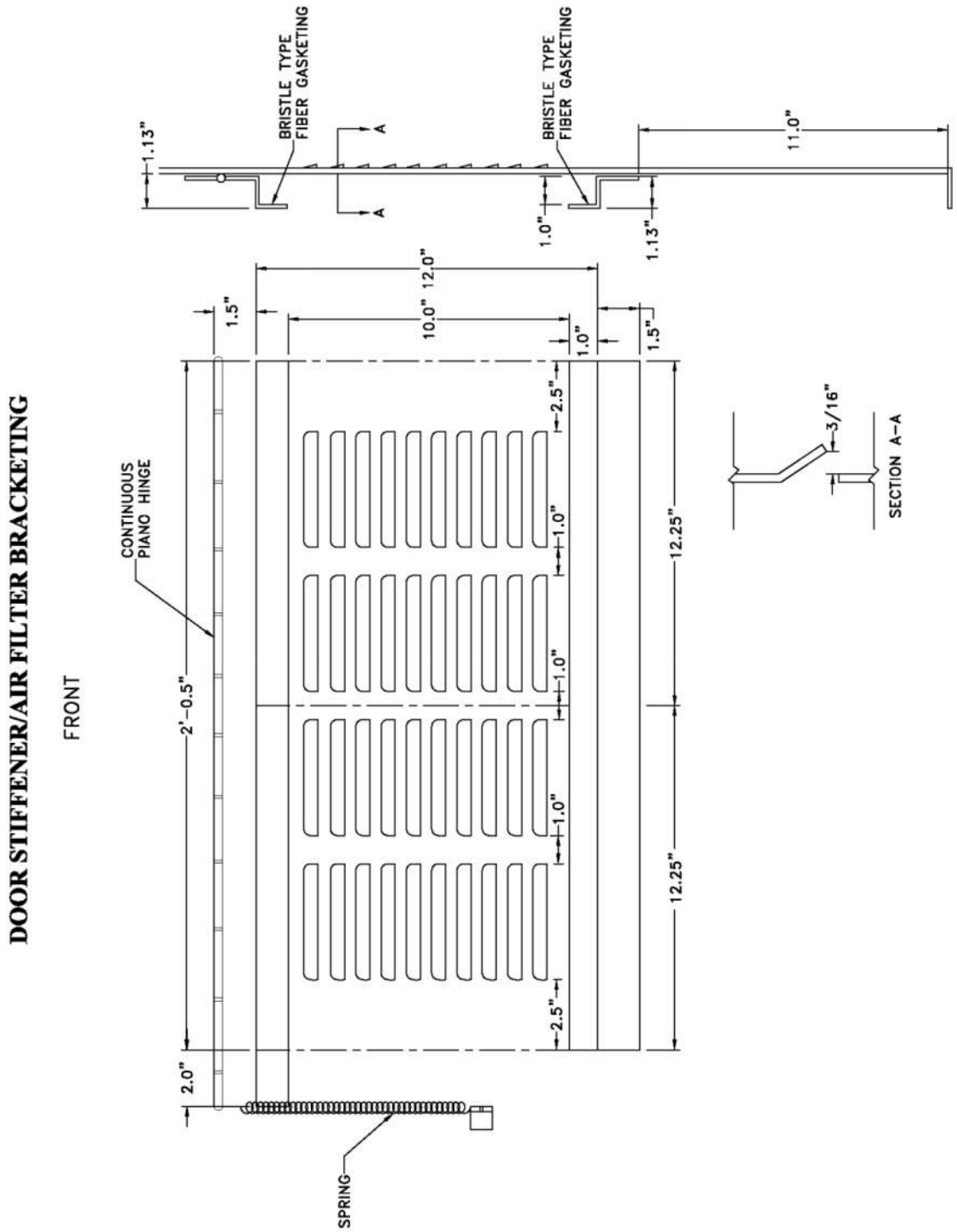


.c Hub Cabinet

Cabinet Enclosure Corner Brace

DOOR STIFFENER/AIR FILTER BRACKETING

FRONT



SS-3.3 Fiber-Optic Hub Cabinet Foundation

This pay item shall consist of installing a traffic signal controller foundation according to Minneapolis Standard Plate No. Traf-1088-R1 Cabinet Foundation, 17" x 33" Fiber Hub Cabinet. Contractor shall reference City standard specifications on concrete for the foundation. The Contractor may, in some cases, be placing the controller foundation over an intercepted conduit. All conduit bends shall be made with preformed conduit bends and elbows. Each foundation shall be constructed with a minimum of three 3-inch NMC conduits. At least one spare unused conduit shall be provided and each spare shall be extended 2-feet beyond the foundation and capped.

All foundation locations shall be approved by the City before construction.

Concrete pad finishing shall be broom finished on all exposed sides, level, and flat. No more than 0.125 inches of variability compensated by shims will be allowed. Variability in excess of this will require resurfacing or replacement at the direction of the Engineer. Inspections will be performed using a Contractor supplied City approved ½" thick steel template manufactured to match cabinet dimensions. The first pad shall be inspected in detail, approved and used as the standard for finish and workmanship. All templates required are incidental to the project.

Concrete for all foundations shall be Mix No. 3Y43 free of chloride additives, placed and consolidated using vibratory equipment and be finished all in accordance with the provisions of MnDOT 2565.3F. All foundations shall be broom finished on all sides and edged with a ½" edger. Concrete shall be allowed to cure for a minimum of seven (7) days before being placed into use unless otherwise permitted by the Engineer.

Fiber-optic hub cabinet foundations shall be installed as shown in the Plans. The cost of furnishing all materials and labor necessary to perform the work described above shall be paid for as "**Fiber Optic Hub Cabinet Foundation", Each**.

SS-3.4 Fiber Optic Handholes and Installation

This work shall consist of furnishing and installing fiber optic handholes as shown in the Plans.

New fiber handholes shall be Minneapolis style Fiber Optic Handholes constructed with monolithic HDPC (High Density Polymer Concrete) with cover and box meeting a Tier 22 rating (AUSI/SCTE 77-2007) as shown in the details in the Plans (Minneapolis Standard Plate No. Traf-2710-R1) and shall conform to the City of Minneapolis standards. The handhole shall be of a straight wall design and have an open bottom. A drain field shall be provided with each handhole. Concrete for supporting the ring and cover in non-sidewalk areas shall be Mix No. 3A32 or equal. The design of the handhole shall be such that units are stackable.

Handhole covers shall not be secured with bolts and shall weigh at least 110 pounds. Stainless steel lifting eyes shall be cast into the cover and 5 lifting tools shall be provided at no additional cost with the project. Handhole covers shall be embossed with the label "MPLS

FIBER OPTIC" in 2" high lettering. If bolt holes are present in the cover, suitable plugs shall be provided.

Rings and covers shall be set in a bed of mortar and leveled to the finished surrounding grade. Handhole rings and covers shall be installed such that the lid and ring are flush with surrounding surfaces. This may require that the handhole be installed at an angle in some cases. Handholes shall be supported by an aggregate base and a concrete collar installed in accordance with that shown in Minneapolis Standard Plate No. Traf-2715-R1.

Rings and covers shall be pretreated prior to concrete placement such that the concrete does not adhere to exposed surfaces. Rings and covers shall be cleaned free of adhering concrete after placement.

In some installations, the Contractor will have to excavate around an existing conduit and cut a slot into the vertical panels of the fiber optic handhole to allow the box to fit over the existing conduits. Prior to cutting the slot, the Contractor shall measure the location of the conduit entry point on the handhole wall and, with a hole saw, cut an entry hole into the box wall matching the conduit size. Using a saw, the Contractor shall cut an inverted narrow V slot from the bottom up to the sawed hole.

After the box is satisfactorily prepared, the Contractor shall complete the leveling process on the fiber optic handhole so it is flush with the surface. The gravel under the box shall be tamped firm and the box shall rest firmly on the gravel. All burrs shall be removed from conduits. Conduit ends shall have pre-formed conduit end bells attached.

Once the box is installed over the conduits, the cut out piece fitting the slot shall be epoxied into the wall of the box, filling the hole so that the horizontal conduit enters the box and is a snug fit in the handhole wall. The epoxy shall be one recommended by the manufacturer of the fiber optic handhole box for repairing its boxes. The area surrounding the conduit entrance shall be sealed with a mortar filling. Conduits shall extend a minimum of 2 inches and not more than 3 inches into the handhole.

If the fiber optic handhole installation contains existing cables, the cables shall be neatly ordered in the new handhole. If the handhole intercepts an existing conduit the conduit shall be cut from around the existing cables without damaging the cables.

New conduit runs passing through handholes shall have both entering conduits placed in direct horizontal alignment.

The Contractor shall salvage in place handholes not reused as part of the project unless otherwise directed by the Engineer.

All fiber-optic handholes shall be installed in accordance with the Plans. The costs of furnishing and installing fiber optic handholes including the concrete collars in boulevard areas as described and as shown in the Plans shall be paid for as "**Fiber Optic Handhole**," **Each**.

APPENDIX A - Asbestos Abatement

City of Minneapolis

ASBESTOS ABATEMENT
Removal/Replacement of Concrete Pole Bases, Concrete Encased Conduit, and Handholes that Contain Asbestos

Some Minneapolis signal and streetlight bases, pipes contain asbestos-containing (Transite) electrical conduit which can be broken during the removal and replacement of a streetlight or signal pole foundation. Some Minneapolis style handholes also have asbestos pipe used in the vertical pipe section of the handhole. Asbestos release can be controlled by wetting the concrete base and Transite before and during removal and painting encapsulant on any broken Transite edges exposed during the foundation removal/replacement process.

Equipment needed:

- Garden sprayer filled with amended water(water/surfactant mixture – dish washing detergent can be used as a surfactant, use 1 oz./gallon of water)
- Bucket of Childers CP-11 mastic – available at plumbing supply stores
- Disposable paint brush

Training needed:

- OSHA requires that workers who disturb asbestos-containing materials must get Class III training. A four-hour session, which includes hands-on training, will meet this OSHA requirement.

Procedures:

After the base is excavated, look at the conduit to determine if it is Transite. Transite is a rock hard, gray, slate-like material. Gray PVC pipe was also used as conduit. The PVC pipe requires no special precautions.

When removing wiring, make sure system is completely de-energized. If Transite conduit is present, spray the inside of the conduit and wiring with amended water. Pull the wires out of the conduit. If wires are visibly contaminated, wipe down the wires with disposable wipes.

If the base will be hoisted out of the ground in one piece, paint the exposed Transite conduit with CP-11 and spray amended water inside the conduit. If the base breaks during removal and Transite is exposed, wet the broken areas with amended water. When the base is moved, paint any newly exposed Transite areas with CP-11.

If the base will be broken apart and partially removed, wet the exposed Transite and inside surfaces of conduit with amended water.

When base breaks, immediately spray the newly exposed Transite surfaces with amended water. Paint the exposed Transite surfaces on the removed portion of the base with CP-11.

For the portion which remains in the ground, wet all exposed Transite. It is very important to wet the portion of conduit where any PVC/Steel adapters will be inserted. Carefully set the adapter and paint the Transite and adjacent portions of the adapter with CP-11. Paint any other exposed portions of Transite with CP-11.

Carefully haul removed bases and portions of bases to an area where they can be stored and kept separate from any other concrete which could be recycled.

Asbestos-containing material must not be recycled because crushing this material will release asbestos fibers into the air and also introduce asbestos into the recycled concrete aggregate.

The material which contains Transite conduit must be disposed of at a landfill which accepts asbestos-containing materials. This material can be legally placed in a demolition landfill, but some landfills do not accept asbestos. Call to insure acceptance.Ensure copies of all transite waste haul manifests are provided to City of Minneapolis Traffic.

APPENDIX B – SAMPLE LOOP DETECTOR TEST REPORT

--- S A M P L E ---

LOOP DETECTOR TEST REPORT

STATE PROJECT NO._____

INTERSECTION _____

LOCATION I.D. _____

No.	Loop Detector Number	Dimensions (in feet)		Number of Turns	Continuity (in Ohms)		Inductance (microhenries)	Insulation Resistance (megohms)	Resonant Frequency (Hertz)
		Length	Width		Loop	Cabinet			

--- E. T. C. ---

NOTES: 1. No. 3, 4, 5, and 6 in the above sample report, are an example of a single loop detector and lead-in cable system.

2. Nos. 1 and 2, in the above sample report, are an example of a multiple loop detector and lead-in cable system.

The Project Engineer shall distribute the three (3) final loop detector test reports as follows:

(01) Original report to the official project file
(02) Copy to the traffic signal cabinet
(03) Copy to the City of Minneapolis

DIVISION WM - WATER DISTRIBUTION SYSTEMS SUPPLEMENTAL SPECIFICATIONS

SECTION 1000 GENERAL

PART 1 - GENERAL

1.01 Summary

A. Water Treatment and Distribution Services (WTDS) is authorized by Minnesota Statutes, Chapter 412, other laws, and Minneapolis City code. In accordance with that authority, WTDS hereby promulgates these standards.

B. Water utility plans shall be developed in conformance with the design criteria specified herein. Construction shall commence after plan approval by a WTDS representative. All fees and deposits shall be paid and permits secured after plan approval.

C. All additions to the municipal water system shall be designed in accordance with the Minnesota Department of Health, the latest revision of Recommended Standards for Water Works, Great Lakes Upper Mississippi River Board of State Public Health and Environmental Managers, as approved by WTDS. In case of conflicting requirements, the standards set forth herein shall govern.

1.02 PROTECTION OF THE PUBLIC WATER SYSTEM

1.03 COORDINATION AND STAGING OF WORK

A. Other contractors and City personnel may be working in the vicinity of the proposed project work area. Every contractor is responsible to communicate and coordinate with other work.

B. Water Main Shutdowns and Temporary Service Measures

1. When water system work requires the shutdown of water mains and the implementation, by WTDS, for temporary water supply, it is essential the Contractor begin coordination efforts with WTDS immediately upon award of the Contract due to the significant commitment of resources and substantial amount of time needed to perform this work. This initial coordination includes establishing timelines and staging of temporary water supply installation and disinfection and water main sections to be temporarily taken out of service while the water main work is performed.
2. The Contractor’s coordination with WTDS should also include consideration of location of temporary piping in relation to the scheduling of other components of the project scope (i.e. if temporary piping is to be placed on the sidewalk and sidewalk removals are scheduled while the temporary water supply pipe is in place, problems will result). Therefore, it is in the best interest of the Contractor to communicate early in the project with WTDS regarding the location of temporary water supply piping.
3. Once temporary service has been established, the Contractor shall be required to stage water related work (water main installation and/or cleaning and lining activities, as well as service, gate valve, and hydrant work) to be completed before the temporary service on that segment of water main is removed and the main is returned to service.

4. The Contractor is responsible for protecting the temporary water pipes and fittings. Any damages due to construction activities will be the Contractor's sole responsibility to repair, or WTDS will repair the damage and charge the Contractor.

C. Disinfection, Sampling, and Testing of Water Mains

1. The Contractor shall always be aware that the health and safety of the customers served by WTDS shall always be the first priority of the City of Minneapolis. Adequate advance notification of temporary water supply and water main disinfection needs and deference to the judgment of the Superintendent of Water Distribution in matters of, and related to, disinfection and sanitary practices involving water main work and the placing into service of water mains shall at all times be required.
2. During flushing operations, the Contractor shall cooperate with WTDS with regard to placement of hoses required to flush sections of water main that have been restored to service. The hoses must remain intact *continuously* until such time that WTDS removes them. Under no circumstances shall the Contractor or any other unauthorized personnel remove flush hoses.

1.04 GOVERNING STANDARDS

A. Products and work quality shall conform to the requirements and standards of the following agencies and organizations, except when more specific requirements are written or are required by applicable codes. In any case of conflict between the standards and this specification, the requirements of this specification shall govern.

1. Applicable standards (latest version at time of bid) of the American Water Works Association.
2. Recommended Standards for Water Works, commonly called "Ten States Standards," a Report of the Water Supply Committee of the Great Lakes--Upper Mississippi River Board of State and Provincial Public Health and Environmental Managers.
3. Safe Drinking Water Act.
4. Minnesota Plumbing Code.

1.05 DEFINITIONS

A. The following terms shall have equal meaning: "Water Works", "Minneapolis Water", "Division of Water Treatment and Distribution Services", "Water Division", and "WTDS" all refer to the same subdivision of the Department of Public Works of the City of Minneapolis, Minnesota.

B. The term "City" refers to any division or department of the City of Minneapolis, a political subdivision of the State of Minnesota.

C. The term "Engineer" shall be interpreted as the licensed Engineer that certified the design documents, Project Manager representing the City, or Employee representing WTDS.

D. The term "Water Utility" shall be defined as water main—existing and proposed—and appurtenances as noted herein and within the plan set including gate valves, manholes, hydrants, fittings, and fasteners or other hardware required to perform installation and performance testing.

E. The term "Water Services" shall be defined as the piping, fittings, gate valves, and appurtenances necessary to provide water service to individual customers within the service area. Water services are fully owned by the customer from the tapped or fitted connection with the water utility and to the water meter.

F. The term "Water Utility Excavation" shall be defined as site excavation necessary for the performance of planned work activities on, or to the water main. The footprint of the excavation shall not be less than 10 x 10, shall be properly shored, stabilized, or benched outwards per OSHA guidelines and located in a manner that suits the planned work. The excavation shall include that to provide a clearance of 2-feet below the subject pipe.

PART 2 - PRODUCTS (NOT USED)

PART 3 - EXECUTION (NOT USED)

SECTION 2000 WATER UTILITY MATERIALS

PART 1 - GENERAL

1.01 SUMMARY

A. Unless stated herein specifically, all materials required for completion of the work as specified shall be of new material conforming to the requirements referenced herein. Any options provided for herein, or in any of the referenced Specifications, shall be subject to selection restrictions imposed by the Contract Documents or Engineer.

B. Material acceptance, for those materials furnished by the Contractor, shall be submitted for Engineer's review and approval prior to delivery on the basis of Certificates of Compliance furnished by the Contractor's supplier or the material manufacturer except in the case of earth materials which will be accepted on the basis of the Field and Laboratory testing.

1.02 REFERENCES

A. AWWA C104 – Cement-Mortar Lining for Ductile Iron Pipe and Fittings

B. AWWA C110 – Ductile Iron and Gray Iron Fittings

C. AWWA C111 – Rubber Gasket Joints for Ductile Iron Pressure Fittings

D. AWWA C116 – Protective Fusion Bonded Coatings for the Interior and Exterior Surfaces of Ductile Iron and Gray-Iron Fittings

E. AWWA C150 – Thickness Design of Ductile Iron Pipe

F. AWWA C151 – Ductile Iron Pipe, Centrifugally Cast

G. AWWA C153 – Ductile Iron Compact Fittings

H. AWWA C509 – Resilient Seated Gate Valves for Water Supply Service

I. AWWA C515 – Reduced Wall, Resilient-Seated Gate Valves for Water Supply Service

J. AWWA C550 – Protective Epoxy Interior Coatings for Valves and Hydrants

K. NSF/ANSI 61 – Drinking Water System Components

L. ASTM D2000 – Standard Classification System for Rubber Products

M. ASTM C33 – Standard Specification for Concrete Aggregates

N. ASTM C150 – Standard Specification for Portland Cement

O. ASTM A1064 – Standard Specification for Steel Welded Wire Reinforcement, Plain, for Concrete

P. ASTM C443 – Specification for Joints for Concrete Pipe and Manholes Using Rubber Gaskets

Q. ASTM C478 – Standard Specification for Circular Precast Reinforced Concrete Manhole Sections

R. ASTM C497– Standard Test Methods for Concrete Pipe, Manhole Sections, or Tile

S. ASTM C990 – Standard Specification for Joints for Concrete Pipe, Manholes, and Precast Box Sections Using Preformed Flexible Joint Sealants

T. Standard Supplemental Specifications for The Construction of Public Infrastructure in The City of Minneapolis – Current Version

U. Minnesota Department of Transportation – Standard Specifications for Construction

1.03 QUALITY CONTROL

A. Quality Assurance

1. Manufacturer shall have been in the business of developing and manufacturing the water utility materials specified herein for no less than 5 years.
2. A quality control department shall be maintained by the Manufacturer. Employment of an independent testing agency does not relieve the Manufacturer's obligation to perform work in accordance with the Contract Documents.
3. Test results shall be submitted to the Engineer upon request.
4. Materials shall conform accurately to the required dimensions and shall be free from injurious effects.
5. Receipt of cracked, broken, failing or failed, or otherwise defective materials shall be rejected and returned at no cost to the Engineer.
6. Contractor shall use skilled workers who are trained in the requisite capacities for delivery of this Contract along with licensed and calibrated equipment satisfactory to industry and local standards.
7. Contractor shall guarantee satisfactory operation and performance for 1 year.

B. Defect Assessment

1. All materials supplied through the execution of this Contract will be subject to inspection and/or testing by the Engineer during production or upon delivery.
2. Supplied materials deemed unacceptable by the standards set forth herein shall be rejected and reclaimed.

PART 2 - PRODUCTS

2.01 Hydrants

A. WTDS will furnish hydrants and gate valves 24 inches and larger.

2.02 DUCTILE IRON PIPE

A. The pipe shall have an exterior strap or cable for electrical conductivity. The joints shall be in accordance with the latest revision of AWWA C111.

B. The pipe shall be cement lined in accordance with the latest revision of AWWA C104. The pipe interior shall have a cement mortar lining that is applied and cured in a manufacturing unit contiguous to the casting unit.

C. The pipe exterior shall be coated with a layer of arc-sprayed zinc per ISO 8179. The mass of the zinc shall be a minimum of 200g/m2 with a minimum 1-mil thick bituminous material applied to the outside of the pipe by means of an airless spray or other factory approved method. All linings and coatings in contact with potable water shall be in compliance with the latest revision of ANSI/NSF Standard 61.

D. Ductile Iron and Cast Pipe Joints

1. Push-On Joints

a. The circular rubber gasket shall be flexed inward and inserted in the gasket recess of the bell socket. A thin film of approved gasket lubricant shall be applied to either the inside surface of the gasket or the outside surface of the spigot end, or to both. Care shall be taken while inserting the spigot end to prevent introduction of contaminants. The joint shall be completed by forcing the spigot end to the bottom of the socket by the use of suitable pry-bar or jack type equipment.

b. Spigot ends which do not have depth marks shall be marked before assembly to insure full insertion. Field cut pipe shall be filed or ground at the spigot end to resemble the manufacturer's fabricated detailing.

2. Mechanical Joints

a. The last 8" of the outside spigot surface and the inside bell surface of each pipe and appurtenance joint shall be painted with a soap solution, after being thoroughly cleaned. The cast iron gland shall then be slipped on the spigot end with the extension toward the socket or bell end. The rubber gasket shall be painted with soap solution and be placed on the spigot end with thick edge toward the gland. An approved lubricant for potable water provided by the pipe manufacturer may be used in lieu of the soap solution.

b. After the spigot end is inserted into the socket to full depth and centered, the gasket shall be pressed into place within the bell evenly around the entire joint. After the gland is positioned behind the gasket, all bolts shall be installed and nuts tightened alternately to the specified torque, such as to produce equal pressure on all parts of the gland.

c. Unless otherwise specified, the bolts shall be tightened by means of a suitable torque-limiting wrench to within a foot-pound range of: 40 to 60 for 5/8-inch bolts; 60 to 90 for ¾ inch bolts; 70 to 100 for 1-inch bolts; and 90 to 120 for 1-¼ inch bolts.

3. Flex Ring, Lock Ring, Ball and Socket, Grooved, Segmental or Clam Type, Other Joint Types as approved by Engineer.

2.03 Gate Valves

A. Ductile iron, resilient-wedge valves rated for 250 psi with a non-rising stem. Gate valves shall be suitable for buried service and shall conform to the latest version of AWWA C509/C515 with the following:

1. Valves shall be right-hand opening (clockwise).
2. Stem seals shall be O-ring type.
3. Mechanical joint valves-ends. Bolt holes shall be equally spaced and shall straddle the centerlines of the flange.
4. 2-inch square wrench nut shall not be painted red. The word "open" and an arrow shall be cast on the body to indicate direction to open.
5. Valves utilizing bonded seats shall pass (as defined by AWWA C515) proof of design tests for rubber-metal bond as specified in ATSM D249.
6. Stem and Seal
   a. Stems shall be low zinc bronze, with less than 2 percent zinc, and less than 0.3 percent lead. Stems shall also have two low torque thrust bearings to reduce friction during operation.
   b. NRS valves shall have a bronze stem with integral thrust collar. Seal shall be two O-rings above thrust collar and at least one O-ring below.
   c. The O-rings above the thrust collar shall be replaceable with the valve fully open and subjected to full rated working pressure.
   d. Stems shall operate with bronze stem nuts, independent of the stem and of the wedge.
   e. Bolts and other hardware to assemble the valve shall be Stainless Steel AISI type 304 or 316. Bolt configuration shall allow the valve to be disassembled without removing it from the pipeline.
7. Finishes
   a. Body, Bonnet, and Stuffing Box shall be fusion bonded epoxy coated, both interior and exterior. Epoxy shall be applied in accordance with AWWA C550 and shall be NSF 61 Certified.
8. Ductile iron wedge shall be symmetrical and fully encapsulated with molded EPDM rubber; no exposed iron.
9. Valve ferrous metal parts shall all be ductile iron.
10. Acceptable gate valves shall be Clow, Mueller Co., M & H, US Pipe Valve and Hydrant, American Flow Control, and Kennedy Valve.

2.04 Fasteners

A. Cor-Blue Bolts

1. Manufactured from corrosion-resistant, high-strength, low-alloy steel in accordance with ANSI/AWWA C111/A21.11, that has a baked-on ceramic-filled fluorocarbon resin, which handles the needs of highly corrosive conditions.

B. Stainless steel with hexagonal heads and have the mechanical strength of ASTM A307.

C. Approved Equivalent.

2.05 Fittings

A. Coatings and Linings

1. The fittings shall be fusion-bonded epoxy coated on the interior and exterior surfaces or cement-mortared lined on the interior surface and bituminous coated on the exterior surface. Materials in contact with potable water shall be certified to the requirements of NSF/ANSI 61. The certifying organization shall be accredited by the American National Standards Institute.

B. Bolt Holes Orientation

1. Bolt holes shall be equally spaced and shall straddle the centerlines of the flange.

C. Working Pressures

1. Ductile-iron mechanical joint fittings for 3-24 inch size range shall be rated for 350 psi.

D. Mechanical joints conforming to AWWA C111 shall be used in all buried locations. Flanged fittings may be allowed inside vaults. Joint restraint shall be accomplished using MEGALUG® Mechanical Joint Restraints, manufactured by EBBA Iron, or equivalent USA-manufactured product.

E. PVC restraints glands are prohibited.

2.06 Valve Box

A. Valve boxes shall be cast iron of the three (3) piece type with five and one-fourth inch (5 ¼") shafts conforming to ASTM A48 standards, screw-type, one and one-half inches (1 ½") between threads.

B. Valve boxes shall be Tyler 6860 Series Item G with a stay-put cover. Deep valves may be required to have nut extensions installed for elevation to accommodate the operating key. Bottom nut shall be bolted to valve nut and only one section. Valve boxes shall have at least six-inch adjustment above and below specified depth of pipe with a thirty-six-inch bottom section. Adjustments to be made with Tyler items 58, 59 or 60 extensions of appropriate length.

C. All valve box assemblies shall include a cast iron lid with the word "WATER" cast into the top.

2.07 Tap Sleeves

A. Sizes 4" to 12" Diameter

1. Heavy Duty/High Pressure
2. Used with standard mechanical joint resilient wedge gate valves per the latest C509.
3. ¾" stainless steel test plug.
4. Minimum pressure rating shall be 150 psi.
5. NSF 61 certified.
6. Factory hydrostatically tested
7. Required Sleeve Diameter Ranges - Sleeves shall be adaptable to properly fit and seal Class A, B, C, D Pit Cast Iron pipe and Ductile Iron pipe in the following O.D. sizes:

Table 2.07-1 Tap Sleeve Sizing

PIPE DIAMETER	TAP SLEEVE DIAMETER
4” pipe	4.8”–5.0”
6” pipe	6.9” –7.10”
8” pipe	9.05” –9.30”
12” pipe	13.20” –13.50”

B. Sizes 16” and Larger – Engineering Required

C. Component Materials

1. Sleeve body shall be fabricated completely from Stainless Steel grade 304/316. All welding shall be passivated so as to return the welded stainless steel to its original corrosion resistance. Sleeve shall be two-piece. Outlet shall be a one-piece casting of 304/316 stainless steel welded 360 degrees, with a shoulder and plain end cross sectional profile fully complying to the latest AWWA C153.
2. The inside diameter of the outlet and the branch shall be larger in diameter than nominal to allow the use of a full-size cutter. Lugs fabricated of 304/316 stainless shall be attached by means of continuous weld to the body of the sleeve and shall be designed to prevent the rotation of the head of the drop-in bolts, and facilitate the installation of the sleeve.
3. The taping sleeve shall have a branch sealing gasket with o-ring design incorporating both hydrostatic and mechanical forces to affect a dynamic seal. Shell gasket shall be a ¼ inch thick complete circle gasket manufacture with 100% new rubber (Nitrile, Buna-N) shall be attached to the sleeve at the factory. Gasket shall have multi sealing ribs. An industry standard mechanical joint gasket complying with AWWA C111 shall be supplied with the sleeve.

D. Fasteners

1. Fasteners for the tapping sleeve shall be Drop-in stainless steel (304/316) track-head bolts and stainless steel heavy Hex nuts with fusion bonded coating. The minimum quantity of drop-in bolts per outlet diameter shall be as follows:

Table 2.07-2 Fasteners Quantity

OUTLET DIAMETER	DROP-IN BOLT QUANTITY
3”	8pcs
4”	10pcs
6”	10pcs
8”	16pcs
10”	20pcs
12”	20pcs

E. Approved manufacturers include EZ Max and Power Seal Pipeline Corporation.

2.08 Repair Sleeves

A. Sizes 4” to 16” Diameter

1. Heavy Duty/High Pressure – Double Band

2. Minimum pressure rating shall be 150 psi.
3. NSF 61 certified.
4. Factory hydrostatically tested
5. Required Sleeve Diameter Ranges – The stainless-steel sleeves shall be adaptable for Class A, B, C, D Pit Cast Iron Pipe and Ductile Iron Pipe in the following O.D. sizes:

Table 2.08-1 Repair Sleeve Sizing

PIPE DIAMETER	REPAIR SLEEVE DIAMETER (inches)
4" pipe	4.8–5.0
6" pipe	6.9–7.1
8" pipe	9.05–9.30
12" pipe	13.2–13.50
16" pipe	17.40–17.80

B. Sizes 24" and Larger – Engineering Required

C. Component Materials

1. All bands shall be Type 304/316 Stainless Steel. Sleeve lugs shall be high strength Ductile Iron or Stainless Steel. Bolts and hexagon nuts shall be Stainless Steel treated to prevent galling. Sleeve gaskets shall be of resilient material and shall provide sealing across the full pipe circumference and the full area of the band.

D. Approved manufacturers include EZ Max and Power Seal Pipeline Corporation.

2.09 Water Service Pipe and Fittings

A. Water service pipe of four (4) inch or larger inside diameter shall conform to the requirements for ductile iron pipe and fittings as set forth under the provisions of these specifications.

B. Water service pipe of two (2) inch or less inside diameter shall conform to the requirements of ASTM B88 for Seamless Copper Water Tube, Type K, Soft temper.

C. Corporation stops, service saddles, curb stops, and curb stop service boxes shall be constructed as shown in the detail plates or approved pattern designations. All fittings for copper tubing shall be cast copper alloy conforming to AWWA C800, having uniformity in wall thickness and strength, and shall be free of defects affecting serviceability.

D. All buried copper pipe fittings shall be flared type.

E. All threads for underground service line fitting shall conform to the requirements of AWWA C800. Each fitting shall be permanently and plainly marked with the name or trademark of the manufacturer.

F. All rubber components shall be EPDM.

G. Curb stop service boxes shall be gray iron castings conforming to the Minneapolis pattern and the requirements of ASTM A48 for Class 20 or higher tensile strength.

H. Taps into water main with less than four full threads shall use a service saddle conforming to AWWA C800.

2.10 Concrete

A. Concrete shall be furnished in conformance with the requirements of MnDOT Standard 2461 for the mix designation shown on the Plans.

B. The requirements for Type 3 Grade G Concrete shall be provided as a minimum where design criteria are not stipulated or a higher grade is not specified.

2.11 Precast Doghouse Manholes

A. Precast doghouse manholes shall be constructed in accordance with the provisions of MnDOT Standard 2506 and City Standard Detail Plates for Water Manholes. They shall be equipped with a flat top section with a 24-inch diameter offset opening with edge of opening located as shown on the City Standard Detail Plate for Water Manholes. The manholes shall be equipped with plastic encapsulated steel steps that meet ASTM C478, set in a vertical line 16" on center and installed in line with the offset opening. The manholes shall be set on concrete footings to prevent the manholes from settling.

B. The annulus between the pipe wall and precast doghouse manhole shall be filled in a manner and through approved methods that prevents backfill materials from entering the manhole. Seek Engineer approval prior to performance of work.

2.12 Cast Iron Ring and Covers

A. The cast iron ring and covers for public water main and private water service manholes shall be constructed in accordance with ASTM A48, Class 35B cast iron or ASTM A536 Grade 65-45-12 ductile iron, and cast according to City Standard Detail Plate for Water Manholes.

2.13 Pitot Taps For Chlorination

A. Pitot-taps used for chlorination or flushing purposes shall be a 1"x1-1/4" corporation stop as specified:

Inlet: AWWA thread.
Outlet: Increased size iron pipe thread with inside driving thread.

B. Brass content shall meet AWWA Specifications C-800.

2.14 Earth Materials

A. Earth materials provided for foundation, bedding, cover, and backfill, shall be defined in accordance with the following:

Table 2.14-1 Backfill Zones

MATERIAL DESIGNATIONS	ZONE DESIGNATION
Foundation	Area beneath bottom of pipe – undisturbed soil unless unsuitable material (organics, rock, etc.) is encountered.
Bedding	Placed below the pipe midpoint, prior to pipe installation, to provide uniform pipe support.
Cover	Placed from pipe centerline to one foot above top of pipe.

Backfill	Placed above cover aggregate to bottom elevation of base course, if any, as the second stage of backfill, to achieve thorough initial consolidation of foundation for surface improvements.

1. In each case above, unless otherwise shown in the Plans, the lower limits shall be the top surface of the next lower course as constructed. The upper limits of each course are established to define variable needs for aggregate gradation and compaction or void content, taking into consideration the sequence of construction and other variables. The material and zone designations described above shall only serve to fulfill the objective and shall not be construed to restrict the use of any particular materials in other zones where gradation requirements are met.

B. Gradation

1. Earth materials shall consist of any natural or synthetic mineral aggregate such as sand, gravel, crushed rock, or crushed stone to meet the gradation requirements specified herein for each particular use.

Table 2.14-2 Earth Materials

	MATERIAL USE DESCRIPTION			
PERCENT PASSING SIEVE SIZE	**FOUNDATION MnDOT 3149.2J**	**BEDDING MnDOT 3149.2G**	**COVER MnDOT 3149.2G**	**BACKFILL MnDOT 3149.2E**
3 inch	-	-	-	-
2 inch	-	-	-	100
1 inch	-	100	100	-
3/4 inch	-	90-100	90-100	-
3/8 inch	100	50-90	50-90	-
#4	90-100	35-80	35-80	35-100
#10	45-90	20-65	20-65	20-70
#40	5-35	10-35	10-35	10-35
#200	0-3	3-10	3-10	3-10

2. Earth granular materials excavated during the project may be allowed for use with approval of the Engineer.
3. Suitable material shall be defined as classified granular fill, free of foreign materials (rubbish, debris, etc.).
4. Frozen clumps, oversize stone, rock, concrete or bituminous chunks, and other unsuitable materials that may in the opinion of the Engineer promote corrosion of pipe, damage the pipe installation, prevent thorough compaction, or increase the risks of settlement unnecessarily shall not be used.

2.15 Anodes

A. The anodes shall be of the type and size specified. They shall be commercially cast and pre-packaged. Each anode shall have a full-length core with a #12 AWG or larger insulated copper lead wire attached.

B. Zinc anodes shall conform to the requirements of ASTM B-418, Type II composition. Unless otherwise specified, the packaged backfill shall be 20-30 percent bentonite and 70-80 percent gypsum.

C. Magnesium anodes shall have a chemical composition of 5-7 percent aluminum, 2-4 percent zinc, 0.15-0.25 percent manganese, a maximum of 0.7 percent other varied elements, and the balance magnesium. The packaged backfill shall be approximately 75 percent hydrated gypsum, 20 percent bentonite, and 5 percent sodium sulfate.

2.16 Wire

A. The wire for header cables, anode leads, and joint bridging shall be a single conductor, standard, plain annealed copper with a black, high-molecular weight polyethylene insulation and jacket. The polyethylene shall conform to ASTM Designation D-1248, Type I, Class C, Grade 5.

B. Wire for header cables and anode leads shall be 12 AWG copper or larger. Wire for bridging joints shall be 6 AWG copper or larger.

2.17 Cathodic Protection Test Station

A. Flush Mounted.

1. Tube: Following Standard Details.
2. Cast iron or high impact plastic collar with ribs.
3. Cast iron or high impact plastic locking lid: Blue with permanent identification marking "WSSC Test Station" to withstand AASHTO H-20 traffic loads and ultra violet rays.

B. Aboveground

1. Weatherproof enclosure: Cast aluminum, galvanized steel, or high impact plastic, Lexan, Gyrlyn or equal.
2. Test box enclosure with locking waterproof cover: Fasten on pipe using non-rusting materials: stainless steel, galvanized steel, or cadmium plated steel fasteners.
3. Terminal block: Phenolic resin, plastic, micarta, Lexan, or Bakelite high dielectric material, with 7 terminals unless otherwise shown on Drawings.
4. Terminals: Nickel plated brass 1/4-inch threaded studs, nuts, and washers.
5. Shunt: 0.01 ohm with minimum of 6 ampere capacity in test stations with galvanic anodes following Drawings

PART 3 - EXECUTION (NOT USED)

SECTION 3000 CONSTRUCTION

PART 1 - GENERAL

1.01 SUMMARY

A. Water utility installation and/or construction shall be performed in accordance with Minneapolis Ordinances, the Recommended Standards for Water Works (Ten States Standards) and all relevant AWWA Standards as required by the Minnesota Department of Health.

PART 2 - MATERIALS (NOT USED)

PART 3 - EXECUTION

3.01 Pick Up and Delivery of Materials

A. All delivery and pick up arrangements shall be the contractor's sole responsibility. The Contractor shall notify the WTDS East Side Yard Warehouse (612-673-5600) at least 24 hours in advance of the time when the materials are required to be picked up.

B. The WTDS Warehouse will be available for material pickup. If it is in the best interest to City of Minneapolis, all material shall be picked up at the WTDS Warehouse located at 935 5th Avenue SE, Minneapolis.

3.02 Establishing Line and Grade

A. The Contractor will establish the primary line and grade unless stated otherwise in the Contract. For trench installation, line and grade stakes will be set parallel to the proposed pipeline at the appropriate offset that will best serve the Contractor's operations wherever practical. Grade and line stakes will be set at 50-foot intervals along the pipeline; at each change in line or grade; and as needed for pipeline appurtenances and service lines.

B. The Contractor shall arrange its operations to avoid unnecessary interference with the establishment of the primary line and grade stakes; and shall render whatever assistance may be required by the Engineer in accomplishing the staking. The Contractor shall bear the full cost of any re-staking necessitated by the Contractors negligence.

C. The Contractor shall be solely responsible for the correct transfer of the primary line and grade to all working points and for construction of the work to the prescribed lines and grades as established by the Engineer.

3.03 Protection of Surface Structures

A. All surface structures and features located outside the permissible excavation limits for underground installations, together with those within the construction areas that are shown in the Plans as being saved, shall be properly protected against damage and shall not be disturbed or removed without approval of the Engineer. Within the construction limits, as required, the removal of improvements such as paving, curbing, walks, turf, etc., shall be subject to acceptable replacement after completion of underground work. All expense of removal and replacement shall be borne by the Contractor to the extent that separate compensation is not specifically provided for in the Contract.

B. Obstructions such as street signs, guard posts, small culverts, and other items of prefabricated construction may be temporarily removed during construction provided that essential service is maintained in a relocated setting as approved by the Engineer and that non-essential items are properly stored for the duration of construction. Upon completion of the underground work, all such items shall be replaced in their proper setting at the sole expense of the Contractor.

C. In the event of damage to any surface improvement, either privately or publicly owned, the Contractor shall replace or repair the damaged property to the satisfaction of the Engineer and without cost to the Owner.

3.04 Interference of Underground Structures

A. When any underground structure interferes with the planned placement of the pipeline or appurtenances to such an extent that alterations in the work are necessary to eliminate the conflict or avoid endangering effects on either the existing or proposed facilities, the Contractor shall immediately notify the Engineer of the affected structure. When any existing facilities are endangered by the Contractor's operations, the Contractor shall cease operations at the site and take such precautions as may be necessary to protect the in-place structures until a decision is made as to how the conflict will be resolved. Operation can continue at other locations where no conflict is found.

B. Without specific authorization from the Engineer, no essential utility service shall be disrupted, nor shall any change be made in either the existing structures or the planned installations to overcome the interference. Alterations in existing facilities will be allowed only to the extent that service will not be curtailed unavoidably and then only when the encroachment or relocation will satisfy all applicable regulations and conditions.

C. Whenever alterations are required as a result of unforeseen underground interference's, not due to any fault or negligence of the Contractor, any alterations ordered by the Engineer will be paid for as Extra Work. Any alterations made strictly for the convenience of the Contractor shall be subject to prior approval and shall be at the Contractor's expense. No extra compensation will be made for unavoidable delays caused by the interference of existing underground structures shown in the Plans.

3.05 Concrete Encasement of Water Mains

A. When any above grade, at grade, or underground structure or facility interferes with the planned placement of the water main or appurtenances to such an extent that alterations to the water main laying line (vertical or horizontal offsets) are necessary to eliminate the conflict or avoid endangering effects on either the existing or proposed facilities, or when it is necessary to offset an existing water main to eliminate a conflict or avoid endangering effects, or when any underground facility would impede the excavation and maintenance of the water main in the future, the water main pipe shall be removed and new pipe shall be installed and concrete encased.

B. Other conditions where concrete encasement is required:

1. Potential for stray current
2. Vertical clearance. Utility crossings where there is not at least eighteen inches of clear distance between the water main and the other facility.

3. Very large or heavy facilities directly over the water main or over the water main but at a horizontal distance away that is not sufficient to allow for access to the water main in the future.
4. Thrust restraining purposes
    a. The concrete encasement shall extend five feet beyond the edge of the conflicting facility or in the case of a vertical or horizontal offset, 18-inches beyond the bends connecting the offset to the existing pipe or as shown on the approved plans.

3.06 TEMPORARY WATER SUPPLY PIPING

A. All temporary water supply piping required on the project shall be supplied and installed by WTDS prior to taking any section of existing water main out of service. WTDS will make every effort to coordinate temporary piping with the Contractors' work.

B. WTDS reserves the right to make final determinations with regard to extent and placement of temporary water piping and services.

C. The amount of time required for planning and implementation of temporary water service varies greatly depending upon the location, type and number of services to receive temporary water, and workload of City forces. As such the Contractor, must make every effort to communicate as early as possible with regard to the desired timing and sequencing of work requiring temporary water service.

D. The contractor shall be responsible for protecting the temporary piping and services from damage due to its activities or to its negligence.

E. WTDS will remove the temporary water pipes when the main is ready to be placed back in service. However, the Contractor shall not, under any circumstances, remove any of the temporary water components.

3.07 Excavation

A. Excavation operations shall proceed only as far in advance of pipe laying as will satisfy the needs for coordination of work and permit advance verification of unobstructed line and grade as planned. Where interference with existing structures is possible or in any way indicated, and where necessary to establish elevation or direction for connections to in place structures, the excavating shall be done at those locations in advance of the main operation so actual conditions will be exposed in sufficient time to make adjustments without resorting to Extra Work or unnecessary delay.

B. The excavating operations shall be conducted so as to carefully expose all in place underground structures without damage. Wherever the excavation extends or approaches so close to an existing structure as to endanger it in any way, precautions and protective measures shall be taken as necessary to preserve the structure and provide temporary support. Hand methods of excavating shall be utilized to probe for and expose such critical or hazardous installations as gas pipes, electric power, and fiber optics or telephone cables.

C. During the course of the project, if the Contractor encounters any conditions indicating contaminated soil or contaminated water, the Contractor shall immediately stop the work in the vicinity, notify the Engineer, and declare a differing site condition.

3.08 Excavation and Disposition of Materials

A. Excavated materials will be classified for reuse as being either Suitable or Unsuitable for backfill or other specified use, subject to selective controls. All suitable materials shall be reserved for backfill to the extent needed, and any surplus remaining shall be utilized for other construction of the Project as may be specified or ordered by the Engineer or disposed of in accordance with waste disposal regulations. To the extent practicable, granular materials and topsoil shall be segregated from other materials during excavating and stockpiling operations so as to permit the best use of available materials at the time of backfilling.

B. All excavated materials reserved for backfill or other use on the Project shall be stored at locations approved by the Engineer that will cause a minimum of inconvenience to public travel, adjacent properties, and other special interests. The material shall not be deposited so close to the edges of the excavation as would create hazardous conditions, nor shall any material be placed so as to block access by emergency services.

C. All material stockpiles shall be located and covered / secured in accordance with the approved Erosion / Sediment Control Plan for the project. All materials considered unsuitable by the Engineer shall be removed from the Project and disposed of in accordance with waste disposal regulations.

D. The Contractor will be paid for the excavation required for water work defined and paid as "WATER UTILITY EXCAVATION".

E. The Contractor will investigate the water main depths as not all depths are at standard bury depth of 8 feet. WTDS will not pay for any extra excavation due to this matter.

3.09 Excavation Limitations and Requirements

A. Trench excavating shall be to a depth that will permit preparation of the pipe bed as specified and installation of the pipeline and appurtenances at the prescribed line and grade, except where alterations are specifically authorized. Trench widths shall be sufficient to permit the pipe to be laid and joined properly and the backfill be placed and compacted as specified. Extra width shall be provided as necessary to permit convenient placement of sheathing and shoring and to accommodate placements of appurtenance.

B. Excavations shall be extended below the bottom of pipe or structure grade as necessary to accommodate required aggregate bedding.

3.10 Sheathing and Bracing Excavations

A. All excavations shall be performed and maintained under the direct supervision of a Competent Person as defined by OSHA in 29 CFR 1926, Subpart P. All excavations shall be sheathed, shored, and braced as will meet all requirements of the applicable safety codes and regulations. Comply with any specific requirements of the Contract and prevent disturbance or settlement of adjacent surface foundations, structures, utilities and other properties.

B. Any damage to the work under Contract or to adjacent structures or property caused by settlement, water or earth pressures, slides, cave-ins, bracing or through negligence or fault of the Contractor in any manner shall be repaired by the Contractor at their expense and without delay. Should the Contractor fail to repair damages in a timely manner, the City may at its option have the damage repaired and deduct the cost from amounts otherwise owed the Contractor.

C. The Contractor shall assume full responsibility for proper and adequate placement of sheathing, shoring, and bracing, wherever and to such depths that soil stability may dictate the need for support to prevent displacement. Bracing shall be so arranged as to provide ample working space and so as not to place stress or strain on the in-place structures to any extent that may cause damage.

D. Sheathing, shoring and bracing materials shall be removed only when and in such manner as will assure adequate protection of the in-place structures and prevent displacement of supported grounds. Sheathing and bracing shall be removed as the backfilling reaches the level of respective support.

E. All costs of furnishing, placing and removing sheathing, shoring and bracing materials, including the value of materials left in place as required by the Contract, shall be included in the prices bid for pipe installation and will not be compensated for separately. When any sheathing, shoring, or bracing materials are left in place by written order of the Engineer, in the absence of specific requirements of the Contract to do so, payment will be made for those materials as Extra Work, including waste materials resulting from upper cut-off requirements.

3.11 Preparation and Maintenance of Pipe Bedding

A. Pipe bedding shall be prepared for a Type 4 or 5 trench as described in AWWA C150. Foundation preparation and bedding placement shall be conducted as necessary to produce a stable foundation and provide continuous and uniform pipe bearing between bell holes. Final subgrade preparations shall consist of placement and compaction of bedding material, such as to produce a finished grade at the centerline of the pipe that is within 0.03 foot of a straight line between pipe joints and to provide bell-hole excavation at each joint as will permit proper joining of pipe and fittings.

B. Special / Improved Foundations: In rock foundations and when unsuitable materials are encountered, the undesirable materials shall be removed and suitable material installed. Compaction shall be achieved by means of mechanical compaction equipment as approved by the Engineer.

C. Engineered Foundation: Where the foundation soil is found to consist of materials that the Engineer considers to be so unstable as to preclude removal and replacement to a reasonable depth to achieve solid support, a suitable foundation shall be constructed as the Engineer directs in the absence of special requirement therefore in the Contract. The Contractor may be required to furnish and drive piling and construct concrete or timber bearing supports or other work as may be directed by the Engineer. Any work so directed by the Engineer will be paid for as Extra Work.

D. Care shall be taken during final subgrade shaping to prevent any over-excavation. Should any low spots develop, they shall only be filled with approved material, compacted to 100% Standard Proctor Density.

E. The finished subgrade shall be maintained free of water and shall not be disturbed during pipe lowering operations except as necessary to remove pipe slings. Trench dewatering shall be as outlined in the project's Storm Water Pollution Prevention Plan. Draining trench water into sanitary sewers or combined sewers will not be permitted.

F. All costs of excavating below grade and placing foundation or bedding aggregate as required shall be included in the bid prices for pipe items to the extent that the need for such work is

indicated in the Contract and the Proposal does not provide for payment therefore under separate Contract Items. Any excavation below grade and any foundation or bedding aggregate required to achieve the foundation and isolating conditions as specified above will be considered to be incidental work and no direct compensation will be made therefore.

3.12 Inspection and Handling of Pipe

A. Proper and adequate implements, tools, and facilities satisfactory to the Engineer shall be provided and used by the Contractor for the safe and convenient prosecution of the work. All pipe, hydrants, valves, and fittings shall be handled carefully and in such manner as will prevent damage to protective coatings and linings; preclude the entrance of foreign materials into the inner areas of the pipe and fittings; and avoid piece to piece contact of parts that may be damaged by jolting.

B. Before being lowered into laying position, and while the pipes are suspended, the Contractor shall make a thorough visual inspection of each pipe section and of each hydrant, valve and fitting unit to detect cracking and other damage that may need corrective action or be cause for rejection. In addition, other crack revealing methods of inspection (hammer ringing or kerosene coating) shall be employed as directed by the Engineer to check out possible or suspected defects more definitely. The Contractor shall inform the Engineer of any defects discovered and the Engineer will prescribe the required corrective action or rejection.

C. Immediately before placement, the joint surfaces of bell and spigot pipe and fittings shall be inspected for the presence of foreign matter, coating blisters, rough edges and projections, and any imperfections so detected shall be corrected by cleaning, trimming or repair as needed.

3.13 Lowering and Setting of Pipe

A. Trench excavation and bedding preparations shall proceed ahead of pipe placement as will permit proper placement and joining of the pipe and fittings at the prescribed grade and alignment without unnecessary hindrance. Every precaution shall be taken to prevent foreign materials from entering the pipe while it is being placed and before any length of pipe is lowered into the trench, it should be inspected for damage and the inside of the pipe must be swabbed to remove loose dirt and foreign objects. If mud and trench water have been permitted to stand or flow through the pipe, the inside shall be power washed and scrubbed with a strong chlorine solution. The water main materials shall be carefully lowered into laying position by the use of suitable restraining devices. Under no circumstances shall the pipe be dropped or dumped into the trench.

B. At the time of pipe placement, the bedding conditions shall be such as to provide uniform and continuous support for the pipe between bell holes. Bell holes shall be excavated as necessary to make the joint connections, but they shall be no larger than is adequate. No pipe material shall be laid in water or when the trench or bedding conditions are otherwise unsuitable or improper.

C. When placement or handling precautions prove inadequate, in the Engineer's opinion, the Contractor shall provide and install suitable plugs or caps to effectively close the open ends of each pipe section before it is lowered into laying position, and they shall remain so covered until removal is necessary for connection of an adjoining unit.

D. As each length of bell and spigot pipe is placed in position, the spigot end shall be centered in the bell and the pipe forced home and brought to correct line and grade. The pipe shall be

secured in place with approved backfill material, which shall be thoroughly compacted around the pipe with portable mechanical compaction equipment. The joint areas shall remain exposed and precautions shall be taken to prevent the soil from entering the joint space, until the joint seal is affected.

E. At all times while pipe laying is in progress or during noon hour and overnight periods, all open ends of the pipeline in the trench shall be closed by watertight plugs or other means approved by the Engineer. If water is present in the trench, the seals shall remain in place until the trench is pumped completely dry.

3.14 Aligning and Fitting of Pipe

A. The cutting of pipe for inserting valves, fittings, or closure pieces shall be done in a neat and workmanlike manner without damage to the pipe and so as to leave a smooth square-cut end. Cast iron and ductile iron pipe shall be cut with approved mechanical cutters. Flame cutting shall not be used under any conditions. All rough edges shall be removed from the cut ends of the pipe and, where rubber gasket joints are used, the outer edge shall be rounded or beveled by grinding or filing to produce a smooth fit.

B. Whenever it is necessary to deflect the pipe from a straight line either in the vertical or horizontal plane, to avoid obstructions, or produce a long radius curve when permitted, the amount of deflection allowed at each joint shall not exceed the allowable limits for maintaining satisfactory joint seal as given in AWWA C600 for mechanical joints and push-on joints, or as otherwise established in the Contract or approved by the Engineer in the case of caulked joints.

C. Connection and assembly of joints shall be accomplished during the setting, aligning, and fitting operations in accordance with the provisions of these specifications, to the extent that the jointing requirements will permit.

3.15 Blocking and Anchoring of Pipe

A. All plugs, caps, tees, bends and other thrust points shall be provided with an engineered joint restraining device.

B. Thrust Blocks

1. Soils: Soil type to be used in determining the sizing shall be based upon available soil information, if any, and verified in the field by the Contractor, and shall be subject to review of the Engineer.
2. Construction: Follow provisions of Section 0300 – 3.05, Concrete Encasement in regard to concrete construction. Concrete thrust blocks shall be poured against firm, undisturbed ground and shall be formed in such a way that the joints can be wrapped with poly so that they will be kept free of concrete and remain accessible for repairs. Wood forms shall be removed prior to backfilling. Metal forms which are to be left in place shall be AMICO Stay-Form or approved equal.
3. Concrete Mix: The concrete mix used in thrust block construction shall be as specified herein.
4. Hot or Cold Weather placing: Shall be performed in accordance with ACI Specifications 305 and 306.

Table 3.15-1 Thrust Blocks

Pipe Dia.	Thrust Restraint
6-8”	1 Base Slab
12”	2 Base Slabs
16” and larger	By design

C. Joint Restraint Devices

1. Joint restraint devices shall be as specified in the and installed in complete accordance with the manufacturers written instructions.
2. Contractor shall furnish and install joint restraint devices in locations indicated in the plans and/or as directed by the Engineer. Joints shall be restrained for an adequate distance in all directions along the centerline of the fitting to fully restrain all joints.

3.16 CONNECTION AND ASSEMBLY OF JOINTS – DUCTILE IRON PIPE

A. Where rubber gasketed joints are specified, care shall be taken during the laying and setting of piping materials to ensure that the units being joined have the same nominal dimension of the spigot outside diameter and the socket inside diameter. A special adaptor shall be provided to make the connection when variations in nominal dimension might cause unsatisfactory joint sealing.

B. Immediately before making the connection, the inside of the bell or socket and the outside surface of the spigot ends shall be thoroughly cleaned to remove oil, grit, excess coating, and other foreign matter. During insertion of spigot ends assure proper centering and insertion to full depth. The joint seal and securing requirements shall be as prescribed below for the applicable pipe and joint type.

3.17 WATER SERVICES

A. Water service facilities consisting of tap service lines and branch service line, complete with all required appurtenances, shall be designed and constructed in accordance with City of Minneapolis ordinances, permit requirements, and the provisions herein.

1. In making connections with water main the tap must not be above the axis of the main, and the service pipe must reach a depth of nine feet below the grade of the street or alley at a point within two feet of said main, and continue at that depth to the line of the street or alley.
2. The shut-off cock must have a round and free opening through it when open, sufficiently large to allow for proper connection.
3. In excavating for laying service pipe in the streets or alleys, if the Engineer shall consent, it may be done by digging pits and tunneling between, but no section of such tunnel work shall exceed six feet in length.
4. In all streets which are paved or which have been ordered paved by the city council, such backfilling shall be made with clean sand or gravel properly tamped and all excess material shall be removed from the street.
5. All work must be done under the supervision of an inspector named by the Engineer.

3.18 Tap and Branch Service Lines

A. Branch service piping shall be cast iron or ductile iron water pipe of the size and wall thickness specified. The pipe and appurtenances shall have rubber gasketed push-on or mechanical joints with megalug fittings

B. Hydrant service pipe shall be six inches in diameter. All branch service lines smaller than 2" shall be tapped connections.

3.19 Tap Service Lines

A. A Minneapolis licensed plumbing contractor must complete all service line connections, reconnections, and cut-offs. This includes new taps and cut-offs necessitated by the Project. The licensed and bonded plumber who will be responsible for all service line-related work will be required to obtain all necessary permits from the City of Minneapolis Utility Connections Inspections office before the service line installation begins.

B. Unless accounted for within a supplemental agreement between the owner or the project or contractor and the City, all costs for permits and inspection fees required for the work shall be included in the Contractor's bid price. It shall be the sole responsibility of the Bidder to obtain all up-to-date information related to these costs for inclusion in the bid. Contact the City of Minneapolis Utility Connections office for current fees and permit application procedures.

C. All new taps will be installed within the line of the building it services. Each service line will be perpendicular in the street.

D. All service lines will be continuous from main to stop box, stop box to meter set. No tees or connections to the service line will be made before the meter set. Any extensions to the service line will be made with permit and permission of Utility Connections Inspections.

E. Any extension to an existing service line shall be made with an inspected mechanical connection. Silver solder connections may be used upon request to and approval by the Utility Connections Inspections' Supervisor.

F. The City of Minneapolis Utility Connections Inspections office, as per City of Minneapolis ordinances and requirements, shall inspect all new service line connections and cut-offs.

G. Taps, two inch and larger, will require the water main contractor to install the tap sleeve, four-inch (4") gate valve and valve box as he/she proceeds with the installation of the main line. The licensed plumber will be responsible for installing the pipe from the gate valve to the required building connection.

H. Tap sleeves installed in water main will be constructed with a valve box as specified herein.

3.20 SETTING VALVES, HYDRANTS, FITTINGS AND SPECIALS

A. Valves, hydrants, fittings, and specials shall be provided and installed as required by the Plans and these specifications and City Standard Detail Plates. The exact locations and settings shall be as directed by the Engineer, and with each installation shall be accomplished in accordance with the requirements for installation of mainline pipe to the extent applicable. Support blocking, reaction backing, and anchorage devices shall be provided as previously outlined elsewhere herein.

3.21 Hydrants

A. The required hydrant lengths will vary depending upon the depth of the water main at a particular location, typically between seven and ten feet. The Contractor shall be responsible for determining the required hydrant length for each location by means of field measurement. The Contractor shall request and install the hydrant that meets the required depth without the addition of a second extension (beyond that allowed in the previous paragraph for achieving the 26-inch flange to steamer connection dimension).

B. Hydrants shall have a full five-inch diameter valve opening. No portion of the hydrant barrel or post shall have an inside diameter less than seven inches. The thickness of the metal in the barrel shall not be less than one-half inch for centrifugal cast pipe or nine-thirty-seconds of an inch for ductile iron pipe.

C. Hydrants shall be the traffic model with breakable devices for the protection of the barrel, stem, and other parts, designed to break at ground level. The lower barrel material shall be ductile iron, with full body construction. No below-grade flanges.

D. Each hydrant shall have two steamer connections, each with a nominal opening of four and one-half inches in diameter, and placed 90 degrees apart. Minneapolis standard pattern threads which have an outside diameter of male threads of five and nine-sixteenths inches, with four threads per inch, shall be used. Nozzle cap chains shall be galvanized.

E. Each hydrant bottom or cup shall have a six-inch mechanical joint connection for six-inch diameter spigot end pipe as called for on the bid form. The bottom of the base (shoe) shall be flat to facilitate a solid, straight installation of the hydrant faster and easier.

F. Outlet nipples shall be bronze. Hose cap nut and operating nut shall be standard Minneapolis pattern. Caps shall be cast iron or ductile iron.

G. The hydrant valve shall be of the compression type, opening against the pressure.

H. A positively operating non-corrodible drip valve shall be provided and arranged so that it will properly drain the hydrant when closed and prevent any leakage when the valve is fully open. The hydrant shall have drain openings that are not less than five sixteenths inches in diameter in the brass seat ring of the main valve, and not less than seven sixteenths inches in diameter in the barrel.

I. The stuffing box with two "O" rings shall be accessible for packing and readily removable. The operating nut shall be of bronze or non-corrosive metal. Where the valve rod comes in contact with the packing, it shall be bushed with bronze or non-corrosive metal and no leakage shall be permitted under the bushed surface, thereby protecting operating threads from water pressure.

J. Hydrants shall be opened by turning to the left (counter-clockwise), and shall be marked with an arrow to indicate the direction of opening. <u>The hydrant shall have an internal travel stop nut that prevents over-torqueing.</u> Hydrants shall be marked with the name or mark of the manufacturer.

K. All privately owned hydrants on private property shall be yellow with a long-term coating as recommended by the manufacturer and designed with a plumbing code compliant backflow prevention device.

L. Jointed barrels along with barrel extensions are prohibited from use.

M. Approved manufacturers include Waterous Pacer Traffic Model WB67-250, Mueller Super Centurion 250, Clow Medallion

3.22 Setting Hydrant

A. Hydrants shall be installed plumb.

B. The hydrants shall be connected to the mainline pipe with 6" diameter ductile iron branch pipe, controlled by an independent gate valve housed inside of a valve box.

C. Install per Detail Plate WATR-1000.

3.23 Setting Valve Boxes

A. The valve box shall be carefully set over the stem. The top section shall be adjustable for elevation and the base centered over the operating nut. The valve box shall be carefully set and braced to ensure that it remains in a vertical position, centered on the stem during and after backfilling. The top of the valve box shall be flush with the finished grade. Backfilling of the trench shall be done in a manner so as to avoid damage to the valve and valve box.

3.24 Setting Manholes

A. Precast manholes shall be located so the offset manhole opening will provide for operation of the valve nut from the street surface and be in line with steps. The valve shall be centered as closely as possible within the manhole.

B. An operating hole shall be located on the offset manhole cover and a cone provided for operation of the by-pass valve on 24" and larger valves.

3.25 Setting Pitot Taps

A. Pitot taps shall be installed on both sides of all line gates.

3.26 Setting Specials

A. Drainage branches, blow-offs, air vents, and other special appurtenances shall be provided and installed as required by the Plans and these specifications.

3.27 Placement of Backfill

A. Backfill in the bedding and cover zones shall be placed in 6-inch lifts, unless greater lifts are allowed by the Engineer.

B. Backfill above the cover zone shall be placed in 12-inch lifts, unless greater lifts are allowed by the Engineer.

C. Placement of frozen backfill shall not be allowed. All loose material, rocks, debris, snow shall, etc. shall be removed from the trench prior to placement of backfill.

3.28 Compaction

A. Bedding and Cover Zones: Compaction of materials placed within the pipe bedding and cover zones shall be accomplished with portable mechanical compaction equipment, so as to achieve thorough consolidation under and around the pipe and avoid damage to the pipe.

B. Above the Cover Zone: Utilize mechanical means until it meets requirements of MnDOT specification 2105.3F1 "Specified Density Method". Density shall be 100% Standard Proctor. The use of heavy roller type compaction equipment shall be limited to the safe pipe loading.

C. Natural Soil at the bottom of excavations shall be compacted with several passes of a vibratory compactor prior to placement of any fill or footings.

3.29 Restoration / Repairs

A. In the absence of specific Contract Items covering restoration items, all necessary restoration work shall be done at the Contractor's expense, as being part of the work required under the pipeline installation items. Where separate payment is specifically provided, only that work which is necessitated by the Contract will be compensated for. Any improvement removed or damaged unnecessarily shall be replaced or repaired at the Contractor's expense.

3.30 PRECAST MANHOLES

A. All line gate valves shall be housed inside precast manholes per City of Minneapolis Standard Detail Plate for Typical Water Manholes.

B. Manholes shall rest on concrete slabs that act as footings to insure against settlement. Slabs shall be per Standard Detail Plates.

C. Before the manhole top is installed the Contractor shall place granular fill material in the manhole to a point halfway up the water main to support the main and gate.

D. Locations requiring special manholes shall be indicated in the plans, and a detail shall be provided in the plan set.

3.31 GATE STEM OPERATING RODS

A. The Contractor shall install all gate stem operating rods for new or relocated gates. WTDS will provide gate stem operating rods. Contractor shall allow one week for fabrication of rods.

3.32 STOP BOX RELOCATIONS

A. The Contractor is required to get a permit at the Utility Connections Office in Room 224 of the Public Service Center (250 South 4th St.), prior to relocating any stop boxes. The new stop boxes shall be relocated in the boulevard or sidewalk behind the new curb. (A "stop box adjust" refers to adjustment of the elevation of the stop box to suit the new grade only. If the improvements to the right of way place the stop box outside of the allowable area described above, the stop box must be relocated.)

B. The Contractor is advised that relocation of stop boxes on service lines which are constructed of lead between the water main and the stop box will require replacement of the tap, the service line between the main and stop box, and the stop box itself, as determined by the City of Minneapolis Utility Connections. In such cases, when bid items exist, the contractor shall be compensated for the new corporation stop (each by size), the linear footage of new type K copper pipe (by size), and curb stop and box (each by size). No extra compensation shall be made for the discontinuation of the existing tap, unless the new tap must be made in a separate hole. When bid items do not exist, compensation for the work shall be made per provisions in the contract for extra work. Any work on private service lines shall be by permit only as indicated in these specifications.

3.33 RELOCATED HYDRANTS

A. The Contractor shall use new hydrants per these specifications for all hydrant relocations unless WTDS determines the existing hydrant shall be salvaged and reused. Measurement and Payment for relocated hydrants shall be as outlined in the Method of Measurement and Basis of Payment sections of these specifications.

3.34 PITOT TAPS

A. Pitot Taps shall be installed on both sides of line gates for pressure testing, flushing, chlorination, and for taking bacteriological samples. The taps shall be housed inside of the pre-cast manholes required for all gate valves. Taps shall be made within nine inches of the gate valve flange. Pitot tap size to be specified by WTDS.

3.35 DISINFECTION OF WATER MAINS

A. Any construction work done on existing water mains, which may include cuts, plugs, valves or other fittings, and all newly installed water main, shall be disinfected and flushed by WTDS personnel, and the water sampled and tested by the WTDS Water Quality Laboratory. The samples shall be confirmed to be free of coliform organisms prior to the water main being put back in service. It may be necessary to add Pitot taps to the existing water main to flush and bleed the air from the main. Also, with an existing water main out of service it may be necessary to provide temporary service to the Minneapolis customers.

3.36 WATER QUALITY SAMPLES

A. Water quality samples shall be taken by WTDS staff as directed by the Engineer, after cutting and plugging an existing main or before putting a new section of water main into service. If any sample turns out positive, the City shall resample or re-chlorinate that section of water main as necessary until the main is free of all coliform bacteria and meets WTDS Quality Standards. Required re-chlorination, flushing, sampling, etc. needed on mains that the Contractor installed shall be at the Contractors' expense. Required re-chlorination, flushing, sampling, etc. on mains rehabilitated by the City shall be done at its own expense.

3.37 PERFORMANCE TESTING

A. The Contractor shall not conduct any pressure tests against any valve currently installed in the system. Installations made where a new section of pipe connects to an existing valve, the Contractor must install a plug with a pitot tap attached, as close to the valve as possible on the new section of pipe, and any pressure test must be taken against this plug. All temporary plugs, pitot taps and other materials installed or used for hydrostatic testing purposes only, shall be considered an incidental cost for water main work.

B. After the installation and partial backfill of the water main, leaving the joints exposed for examination, each valve section shall be subjected to the pressure test prescribed herein. The Contractor shall furnish the pump, pipe connections, gauges, and measuring equipment, and shall perform the testing under the direct supervision of the WTDS Engineer. Where permanent air vents are not provided, the Contractor shall provide and install pitot taps as directed by the WTDS Engineer for release of air as the line is filled with water.

C. Where concrete reaction blocking is placed, the water main shall not be subjected to hydrostatic pressure until at least five days have elapsed after the concrete casting, with the

exception that this period may be reduced to two days where high early strength concrete is used.

D. The section being tested shall be slowly filled with water and the specified test pressure shall be applied after all air has been expelled from the pipe. A hydrostatic pressure of not less than 150 pounds per square inch shall be applied by means of a pump connected to the pipe in a satisfactory manner.

E. The specified pressure shall be held for a minimum duration of two hours, during which time all exposed pipe, fittings, valves, hydrants, and joints shall be carefully examined for visible leaks. Any defects discovered shall be corrected satisfactorily and the tests repeated until there is less than a 3-psi pressure loss for the two-hour duration.

3.38 CONCRETE ENCASEMENT

A. Reinforced concrete encasements where required and where shown in the Plans, shall be installed in strict accordance to City of Minneapolis Standard Detail Plates for the relevant water main pipe diameter(s).

1. Concrete Mix: As specified herein
2. Formwork: Forms shall be adequately braced and selected to withstand forces placed upon it by the poured concrete and maintain true dimensions of the encasement. All formwork shall be removed prior to backfilling, unless a leave-in-place type form system, approved by the Engineer, is used.
3. Reinforcing Steel: Reinforcing steel shall be installed in accordance with all ACI standards and tolerances by qualified ironworkers.
4. Placement and finishing: Shall be done by personnel experienced in placing and finishing concrete and shall be done in accordance with ACI standards. All blocking and other support mechanisms used to support the water main shall be removed prior to encasement.
5. Cure time: Minimum cure time of concrete before backfilling and compaction shall be 72 hours or as approved by the Engineer.
6. Cold Joints: Cold joints in concrete encasements shall be allowed only with pre-approval of the Engineer. Contractor shall submit for approval a written plan and/or sketches showing proposed cold joint construction, to include
   a. Keyed construction at the cold joint(s).
   b. Properly dimensioned lap splices for rebar at the cold joints.
   c. Provision of neat cement slurry on cured concrete to act as bonding agent, brush applied just prior to pouring new abutting concrete.
   d. 3 days' time shall elapse between adjacent pours.
7. Cold Weather Placement: Comply with provisions of ACI 306.
   a. Concrete shall not be placed against any frozen substrate, including subgrade soils and surfaces of formwork.
   b. Concrete shall not be placed around any embedment, including reinforcing steel that is at a temperature below freezing.
   c. Concrete shall be delivered at the following temperatures:

Air Temperature	Min. Concrete Temperature
Above 30 Degrees F	60 Degrees F

0 to 30 Degrees F	65 Degrees F
Below 0 Degrees F	70 Degrees F

d. Cure the entire surface and edges as soon as surface conditions permit after the finishing operations.
e. Maintain concrete temperatures between 50 and 70 degrees for minimum of 72 hours. Engineer may require Contractor to provide method of verification of temperature. Provide means of maintaining moist cure conditions during temperature protection.
f. Provide method for protection of concrete from exhaust gasses from combustion heaters, if used, for first 24 hours.
g. Provide gradual removal of heat from concrete at conclusion of heating period.

8. Hot Weather Placement
   a. Comply with ACI 305 when hot weather conditions exist.
   b. Maintain concrete temperature at time of placement below 90 degrees F.
   c. Provide required extra measures to protect all surfaces from rapid drying.

SECTION 0400 MEASUREMENT AND PAYMENT

PART 1 - GENERAL

1.01 SUMMARY

A. All items will be measured separately according to design designation as indicated in the Pay Item name and as may be detailed and defined in the Contract. Pipe will generally be designated by size (inside diameter or span), strength class, kind or type, and laying condition. Items with an "each" or "lump sum" method of measurement as well as items specified as "complete-in-place" shall include all component parts thereof as described or required to complete the unit, but excluding any excess covered by separate Pay Items. Linear measurement of piping will include the running length of any special fittings (tees, wyes, bends, gates, etc.) installed within the line of measurement between specified terminal points.

B. It is the Bidder’s responsibility to assure that any brand being quoted will be able to meet the requirement of the Drawings and Specifications at the price quoted. Prices shall be for furnishing and installing the equipment, complete and ready for operation, in accordance with the Plans and Specifications

PART 2 - PRODUCTS (NOT USED)

PART 3 - EXECUTION

3.01 Water Pipe / Water Main

A. Mainline pipe, branch service pipe, and tap service pipe of each kind and size will be measured separately by the overall length along the axis of the pipeline, from beginning to end of each installation and without regard to intervening valves or specials. Terminal points of

measurement will be the spigot or cut end, base of hub or bell end, center of valves or hydrants, intersecting centers of tee or wye branch service connections, and center of corporation stop or curb stop couplings.

B. Payment for Water Main Pipe, Branch Service Pipe, and Tap Service Pipe, of each size, kind, type and class, at the appropriate Contract prices per linear foot, shall be compensation in full for all costs of furnishing and installing the pipe complete in place as specified, with the exception of pipeline appurtenant items, but including all costs of pipe installation and surface restoration as may not be specifically covered under other Contract Items. All costs of pipeline disinfection, performance testing, pipe jointing materials, dead end plugs and caps, making connections to existing facilities, blocking and restraint materials, and other work necessary for proper installation of pipe as specified shall be included for payment as part of the pipe item, without any additional compensation being made therefore.

3.02 Valves

A. Valves shall be furnished and installed by the Contractor and shall be measured on an "each" basis.

3.03 Curb Stops

A. Curb stops of each size and type will be measured separately by the number of units installed, including the required curb box.

3.04 Hydrants

A. New hydrants shall be furnished by WTDS. Hydrants will be measured by the number of complete units (hydrant, thrust reinforcement, and backfill) installed per specifications and details.

3.05 Rearrangement of In-Place Facilities

A. Relocating, moving, lowering, adjusting, salvaging, installing or removing of in place facilities such as hydrants, valves, curb stops, pipe, etc., will be measured, as indicated in the Contract, by the number of complete units of each item on a per each or lump sum basis, or by the number of linear feet of each item such as pipe rearranged, as per the pay item description.

B. No separate measurement will be made of the various hardware, fittings or new materials that may be required to complete work identified as relocate, move, lower, adjust or install. Any hardware or fittings necessary to complete the work shall be incidental to the associated Contract pay items.

C. Unless otherwise provided, no separate measurement will be made for new six (6) inch ductile iron pipe necessary to connect relocated hydrants to the mains as required by the Contract.

D. When so described in the pay item, hydrants and associated valves shall be measured as one complete unit.

E. Excavation and Backfill shall be included as part of the bid item for which the excavation is being done (gate valve, branch piping, and hydrant, for example).

3.06 Fittings

A. Fittings will be measured by the pound without joint accessories and shall be the standard weight of fittings for the specified pressure rating as published in AWWA C110 and/or AWWA C153.

3.07 Bedding Materials

A. No direct payment will be made for furnishing and installing granular backfill and bedding materials (except for Rock Bedding, which will only be used when directed to do so by the Engineer). All granular backfill and bedding materials (except for Rock Bedding) shall be furnished and installed as an incidental cost to the water main installation. Rock Bedding will be used only when directed for use by the Engineer. Rock Bedding (CV) will be measured for payment by the cubic yard, compacted volume (CV), as determined by cross-section method of the material in its placed and compacted position, according to the placement dimensions shown in the Plan or as designated by the Engineer.

3.08 Contaminated Soils

A. Where provisions are not provided for in the project plans and specifications for excavation, handling, re-use, and disposal of contaminated soils, Contractor shall adhere to the provisions of the Minnesota Pollution Control Agency's Guidance Document 5-01 – Managing Petroleum Contaminated Soil at Public Works Projects.

B. Contractor shall refer to any project specific Corrective/Remedial Action Plan when planned excavations are within known areas of contamination or adjacent thereto.

3.09 Connect/ Reconnect to Water Service

A. Connect Water Service shall be measured per each connection of replacement or new service to the water main.

3.10 Connect to Existing Water Main

A. Connect to Existing Water main shall be measured per each connection of water main pipe to existing water main where shown in the plans. In the case of installation of tees, gate valves, or other fittings on an existing line, it shall be understood that this will be measured as one "connect to existing water main".

3.11 Construct Water Manhole

A. Construct Water Manhole shall be measured per each complete structure installed as shown in the plan and illustrated on the Detail Plate.

3.12 Water Utility Excavations

A. Quantified as each, to include:
   1. Planning and Location, including "One Call" and safety preparations.
   2. Shoring (whether using corrugated metal cans or wood sheeting).
   3. Excavation as necessary and to properly expose the pipe.
   4. Backfill and compaction.

B. Access holes required for City-Installed gate valves shall be considered the same as for cleaning access holes, and will be measured and paid for as the same.

3.13 Cut Off Service

A. Cut off service (otherwise referred to as "disconnect service") shall be measured as an "each" quantity on a "per service" basis. All work necessary to accomplish the task shall be considered part of this quantity, including but not limited to:

1. Permitting, planning, and locating (one-call)
2. Excavation and shoring
3. Excavation
4. Backfill

B. Cutting off a service line at the main shall be considered incidental in the case where a new service line for the same property is being installed in the same hole as the cut-off.

3.14 Removal of Structures and Appurtenances

A. Removal of Manholes, hydrants, gate valves, etc. shall be measured and paid for per each.

3.15 Furnish and Installation Of Appurtenances

A. Payment for furnishing and installing valves, corporation stops, curb stops, hydrants, air vents, and other specially identified appurtenant items, at the appropriate Contract prices per each, shall be compensation in full for all costs of furnishing and installing the specified item complete in place as specified, and detailed in the Contract, including final elevation adjustments as necessary. The Contract unit price shall include all costs of furnishing and installing or constructing the required access structures for valves, vents, and specials, which are not to be paid for separately. Access structures such as valve boxes, service boxes, manholes, and vaults will be paid for as separate items only when and to the extent that the Contract contains separate items therefore. When the Contract does not contain a separate pay item for six-inch ductile iron pipe, all such pipe required to connect the new hydrant to the water main shall be furnished and installed as an incidental cost to the hydrant.

3.16 Relocate Curb Stop

A. Payment for relocation or moving in place curb stops, along with all associated access boxes at the appropriate Contract prices per each shall be compensation in full for all costs of performing the relocation as specified and detailed in the Contract, including final elevation adjustments as necessary. The Contract unit price shall include, but not limited to the following:

1. Furnishing and installing new pipe and fittings of the same kind and size as the existing components as necessary when the relocation cannot be completed with the existing components.
2. Furnishing and installing new pipe and fittings of the same kind and size as the existing components as necessary to provide continuous piping in any gaps resulting from the relocation.
3. Furnishing and installing caps and plugs as necessary when items are permanently removed.

3.17 Adjustment of Water Structures

A. Payment for adjusting in place hydrants, valve boxes, and curb stop boxes at the appropriate Contract prices per each shall be compensation in full for all costs of adjusting the specified item to the required elevation, without changing the elevation of the actual valve or associated water supply line. The Contract unit price shall include, but not be limited to, furnishing and installing new materials of the same kind and type as the existing components as necessary when the required adjustments cannot be made using the existing materials.

3.18 Installation of Salvaged Items

A. Payment for the installation of salvaged (or otherwise furnished by others as specified) water main piping or other system components as specified at the appropriate Contract prices per defined unit of measure shall be compensation in full for all costs of installing the specified item complete in place as specified and detailed in the Contract, including final elevation adjustments as necessary. The Contract unit price shall include, but not be limited to, furnishing and installing replacement bolts, glands, rods, gaskets, and other miscellaneous hardware as may be required to complete the installation.

3.19 Salvaged Items

A. Payment for removing or salvaging water main piping or other system components as specified shall be in accordance with the provisions of MnDOT 2104. The Contract unit price for salvaged items shall include, but not be limited to, furnishing and installing a suitable plug or valve on the end of the existing line remaining so that it can be returned to service when construction activities are performed.

3.20 Fittings

A. Payment for water main fittings of cast or ductile iron at the Contract price per pound, as specified in WM-3.1.7 hereof, shall be compensation in full for all costs of furnishing and installing the iron water main fittings as required. The Contract price per pound shall include the costs for all necessary glands, gaskets, rods, bolts or other accessories as necessary.

3.21 Access HOLES

A. Access Holes shall be paid for as Each.

3.22 Backfill

A. No direct payment will be made for furnishing and installing granular backfill and bedding materials (except for Rock Bedding, which will only be used when directed to do so by the Engineer). All granular backfill and bedding materials (except for Rock Bedding) shall be furnished and installed as an incidental cost to the water main installation. Payment for Rock Bedding (CV) at the Contract price per cubic yard, compacted volume (CV), shall be compensation in full for furnishing and placing the material as directed by the Engineer.

3.23 Connect / Reconnect Water Service

A. Payment for Connecting Water Service and Reconnecting Water Service at the Contract bid price per each shall be compensation in full for furnishing and installing materials (except the service pipe, which is paid for separately) and all work necessary to connect or reconnect each service to the new main.

3.24 Connect to Existing Water Main

A. Payment for Connect to Existing Main shall be compensation in full for all costs associated with connecting new water main pipe to existing mains.

3.25 Construct Water Manhole

A. Payment for Construct Water Manhole shall be compensation in full for furnishing and installing the structure and all associated components as shown in the plan details including, but not limited to, the structure and structure base, casting and rings, and excavating, backfilling, and compacting as needed to complete the installation.

3.26 Cut Off Service

A. Cut off service shall be paid for per each. Payment shall be compensation in full for performing such work per the specifications, including related tasks necessary for accomplishing the tasks.

3.27 Concrete Encasement

A. Concrete encasement shall be paid for by the lineal foot for each size (nominal inside diameter) of pipe encased. Payment shall be compensation in full for furnishing all materials and qualified labor to excavate, form, pour, remove forms, backfill, and all other items necessary to complete the encasement. Extra compensation for encasing pipe sections (proposed or existing) that are described in the plan to contain bends shall not be made.

3.28 Other Miscellaneous

A. Unless its existence is shown in the Plans, and other provisions provided for payment, the removal of ledge rock or rocks larger than ½ cubic yard in volume from the excavation shall be paid for as Extra Work.

B. All costs of excavating to foundation grade, preparing the foundation, placing and compacting backfill materials, restoring surface improvements, and other work necessary for prosecution and completion of the work as specified, shall be included for payment as part of the appropriate pipe and pipe appurtenance items without any direct compensation being made therefore.

C. All costs of disinfecting and performing the required electrical conductivity, pressure tests on all piping and appurtenances installed in the completion of the work shall be incidental to the Contract water main pay items provided, and no direct payment shall be made therefore.

D. No payment will be made for the use of steel plates for covering trenches or for providing temporary water service to all users as may be necessary to complete the work.

E. In the absence of special payment provisions, all costs of repairing, replacing, or otherwise restoring surface improvements as required by the Contract shall be included for payment as part of other Contract items without any direct compensation being made therefore.

END OF DIVISION WM - WATER MAIN

APPENDIX A - SAMPLE OF TRAFFIC CONTROL LOG

TRAFFIC CONTROL DEVICES LOG

S.P. _

			Yes	No	If Yes, Number
1.	A.	Any devices missing?	( )	( )	( )
	B.	Any devices need repair?	( )	( )	( )
	C.	Were they all repaired or replaced?	( )	( )	----------
2.	A.	Any lights (flashers, etc.) not working?	( )	( )	( )
	B.	Were they all repaired or replaced?	( )	( )	----------
3.	A.	Any devices improperly placed?	( )	( )	( )
	B.	Were they all corrected?	( )	( )	----------
4.	A.	Any devices in need of cleaning?	( )	( )	( )
	B.	Were they all cleaned?	( )	( )	----------
5.	A.	Any changes to the traffic control layout, to the staging or to temporary lane closures either installed or inplace?	( )	( )	----------
	B.	If "yes" to 5A, identify location, date and time.			

Action to be taken to correct any deficiencies indicated above:

I HEREBY CERTIFY THAT THE ABOVE CHECK WAS COMPLETED BY ME ON:

(Date) at (Time)

(Signature) (Title)

The Contractor shall inspect, on a daily basis, all the traffic control devices, which the Contractor has furnished and installed, and verify that the devices are placed in accordance with **the Traffic Control Layouts**, these Special Provisions, and/or the MMUTCD. Any discrepancy between the placement and the required placement shall be immediately corrected. The person performing this inspection shall be required to make a daily log. This log shall also include the date and time any changes in the stages, phases or portions thereof go into effect. The log shall identify the location and verify that the devices are placed as directed or corrected in accordance with the Plan. All entries in the log shall include the date and time of the entry and be signed by the person making the inspection. Copies of the "Traffic Control Devices Log" will be provided at the Pre-Construction Conference. The completed log shall be submitted each working day to the Project Engineer or Project Inspector.

GENERAL CONDITIONS OF RIGHT OF WAY PERMITS
City of Rochester, Minnesota

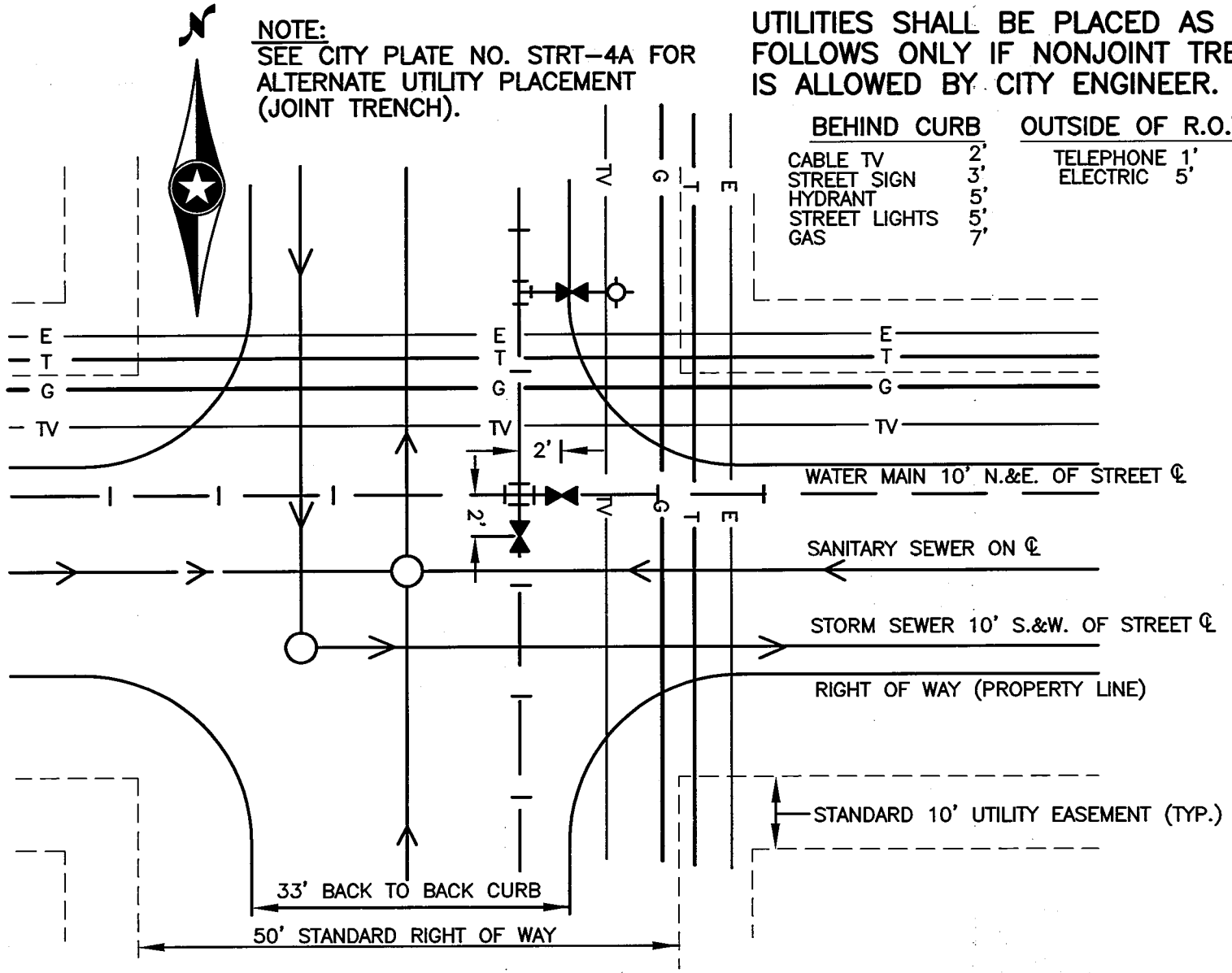
1. Utility installations shall generally be in Utility Easements (UE) or in the Right of Way (RoW), in the boulevard. The UE is the default placement unless there are other infrastructure/utility conflicts, which might demand placement in the RoW.
2. Work on private property outside of a Utility Easement is prohibited. Placing equipment or utilities outside the Utility Easement is criminal trespassing.
3. A City of Rochester Permit cannot authorize work done on or crossing property owned by the US Government, State of Minnesota, Minnesota Department of Natural Resources, County of Olmsted, or any Railroad. These properties require separate permits.
4. Hand holes, splice vaults, or other surface-level accoutrements shall not be placed in paved areas: roadway, curb line, sidewalk, trail, paved boulevard, driveway or alley.
5. Traffic control plans shall be submitted to the Permits Technician to be reviewed by the City Traffic Engineer for compliance with the Minnesota Manual on Uniform Traffic Control Devices (Mn MUTCD). Requests for sidewalk, trail, and parking closures shall be submitted not less than 3 days from closure. Requests for driving lane shifts or closures must be submitted not less than 5 days from closure.
6. All utility installations shall be trenchless anywhere turf is routinely maintained.
7. Turf restoration shall be in accordance with details listed on the permit. Turf shall be restored using sod unless the area is on a commercial property or pedestrian ramp, when hydro-seed shall be used.
8. Bituminous pavement shall be repaired in kind. Repairs shall be backfilled with aggregate base and 4-6” of hot-mix asphalt patch in no less than two lifts.
9. Concrete sidewalk, drive approach, and driveways shall be repaired in kind. Repairs shall be backfilled with aggregate base and 4-7” concrete, then tied to abutting panels.
10. Concrete curb and gutter shall be repaired in kind. Patching is prohibited. Entire section must be completely replaced and tied to existing.
11. Any disruption of pedestrian ramps requires reconstruction to restore ramp to the latest Americans with Disabilities Act standards, consistent with State and Federal Law.
12. Concrete streets and/or alleys shall be repaired in kind and only in full-panels. Repairs shall be backfilled with aggregate base and 8.5” concrete.
13. All pavement for removal shall be saw cut to provide a smooth edge. All concrete surfaces shall be finished according to City Standards, including membrane curing compound spray.
14. Punctured sewer pipes or damaged structures shall be repaired in complete sections, at the discretion of the City Engineer.
15. Damaged electrical lines shall be repaired or replaced at the discretion of Rochester Public Utilities.
16. Damaged trees or shrubs shall be replaced with a species / variety at the City Forester’s discretion.
17. All repair work done in the Right of Way must be done by a City Licensed Contractor. All repair work shall be warrantied for a minimum of 2-years.
18. City Standards for Street and Utility Construction can be found at: https://www.rochestermn.gov/home/showdocument?id=18151

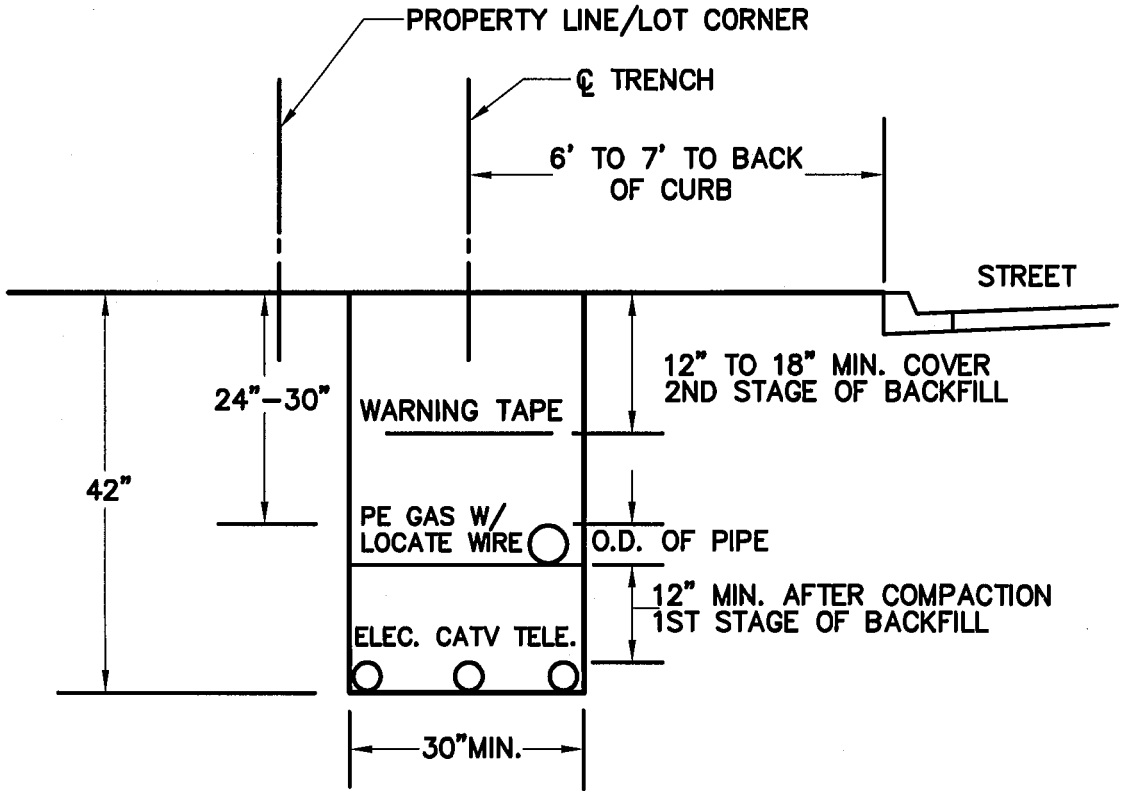
As of: 5/8/2019

City of St. Michael
11800 Town Center Drive, Suite 300 St. Michael, Minnesota 55376
(763)497-2041 Fax (763)497-5306

LOCATION OF PUBLIC UTILITIES

ISSUED:
REVISED: 10/03
PLATE NO.: STRT-4





City of St. Michael
11800 Town Center Drive. Suite 300 St. Michael, Minnesota 55376
(763)497–2041 Fax (763)497–5306

SINGLE (JOINT) TRENCH INSTALLATION LOCATION OF PUBLIC UTILITIES

ISSUED: 5/1/00
REVISED: 10/03
PLATE NO.: STRT–4A

Documents From Dakota County Right-of-Way Permits Manager

DESIGN PLANS FOR: _____

STEP 1. UTILITY IDENTIFICATION

Dates

_____ Called Gopher State One Call and got a list of the utility companies in the project area.
_____ Sent out a notification letter explaining the project, possible time lines and request easement data.
_____ Requested mapping data of utility facilities and to have their underground facilities of concern marked in the field and have the Project Designer notified when the marking is complete.

STEP 2. UTILITY LOCATION

Dates

_____ Contacted a survey crew to collect data on any field located utility company facilities.
_____ Survey crew forwarded the data to the Project Designer.

STEP 3. UTILITIES ADDED TO THE PLAN

Dates

_____ Collected utility facility and easement information has been added on to the draft design plans.
_____ Private easement information has been sent to the right of way group. (if required)
_____ Reviewed the information for design conflicts.

STEP 4. PLANS TO UTILITY COMPANIES

Dates

_____ Sent out a copy of the "draft" design plans with the topographic data to the utility companies and requested each company to review the plan sheets for corrections and concerns.

STEP 5. DESIGN MEETING

Dates

_____ Set up a meeting with the utility companies.
_____ Field elevation checks on utility facilities of concern, were set up, (if required).

STEP 6. UTILITY CONFLICT REVIEW

Dates

_____ Contacted a survey crew to collect elevation data on utility company facilities, (if required).
_____ Survey crew forwarded the information to the Project Designer, (if required).
_____ Reviewed the utility elevation data for potential conflicts with the proposed design, (if required).
_____ Set up a second meeting with the utility companies to discuss the outcome of the proposed design.
_____ Reimbursement agreements prepared and sent to all parties.

STEP 7. SEND PLANS

Dates

_____ Sent out the final plans a long with a proposed project letting date and approximate start date.
_____ Sent out the official letter notifying them to begin the process of relocating any affected utility facilities.

STEP 8. UTILITY CHECK

Dates

_____ Utility relocation plan status checked.
_____ Checked with the County permits office for any new utility permits issued in the area.

STEP 9. PERMIT / AGREEMENT PROCESS

Dates

_____ Permits for the relocated facilities have been received.
_____ Reimbursement agreements for facility relocations are in place.

STEP 10. PRECONSTRUCTION MEETING

Dates

_____ Setup a meeting with the Utility companies to discuss relocation plans.
_____ Notified the utility companies on date, time and location of the preconstruction meeting.

UTILITY COORDINATION PROCESS FOR DESIGN PLANS

STEP 1. UTILITY IDENTIFICATION

The Project Designer is responsible for calling Gopher State One Call to get a list of the utility companies in the project area. The Project Designer shall then send out a notification letter explaining the project and possible time lines and to request information about the utility's facilities or to be notified that they have no facilities involved. The letter shall also request the utility to have their underground facilities of concern marked in the field and to be notified when the marking is complete. If the utility company has no concerns as to the relocation of their facilities, as-build maps are acceptable. The letter must request each utility company to supply any easement information they have within 30 days after receiving the letter.

STEP 2. UTILITY LOCATION

The Project Designer will contact a survey crew, when notified that the field markings are complete. The survey crew collects the data on field located utility facilities and forward the data to the Project Designer.

STEP 3. UTILITIES ADDED TO THE PLAN

The Project Designer adds the collected utility facility and easement information on to the draft design plans and reviews the information. The easement information may need to be forwarded to the right of way group.

STEP 4. PLANS TO UTILITY COMPANIES

The Project Designer sends a copy of the "draft" design plans with topographic data to the utility companies and requests each company to review the plan sheets for corrections and concerns.

STEP 5. DESIGN MEETING

The Project Designer sets up a meeting (after a min. of 3 weeks) to review the utility's easements and to discuss any conflicts the utility companies may have. Field elevation checks for conflicts of concern should be discussed and setup if need be. The Utility is to excavate the facility and the designer's survey crew collects the data.

STEP 6. UTILITY CONFLICT REVIEW

The Project Designer will contact the survey crew and let them know when the utility field elevation checks are ready. The survey crew will collect the data on field located utilities and forward the information to the Project Designer. The Project Designer shall review the utility elevation data for potential conflicts with the proposed design. If major conflicts exist, alternative project design changes should be explored and discussed. The Project Designer shall set up a second meeting with the utility companies involved and discuss the outcome of the final proposed design. Reimbursement agreements for the relocation of utility company facilities on private easements will be prepared.

STEP 7. SEND PLANS

The Project Designer will send final plans a long with a proposed project letting date and approximate start date, to the utility companies approximately 120 days prior to the letting date. The official letter notifying the utility companies to begin the process of relocating any affected utility facilities, should be sent with the plans.

STEP 8. UTILITY CHECK

The Project Designer will do a utility check by telephone call, letter and/or Gopher State One Call (60 days prior to the letting date) to hear of the status of the utility companies relocation plans. The Project Designer should also check with the County permits office to see if there have been any new utility permits issued in the area.

STEP 9. PERMIT / AGREEMENT PROCESS

Each affected utility company must obtain all required permits for the relocation of their facilities. Permit fees for public projects are waived. Reimbursement agreements for any facility relocations on private easements need to be in place at this time.

STEP 10. PRECONSTRUCTION MEETING

Construction staff will setup a utility meeting to discuss their relocation plans and inform them of the upcoming date, time, and location of the preconstruction meeting. Utility companies will be required to attend each meeting and supply information as to their relocation plans and time frame.

S-12 (1507) UTILITY PROPERTY AND SERVICE

S-12.1 The Contractor shall coordinate their work and cooperate with the foregoing utility owners and their forces in a manner consistent with the provisions of MnDOT 1507 and the applicable provisions of MnDOT 1505.

S-12.2 The County shall not be held responsible for any delay that the Contractor may encounter by reason of the utility company involved failing to promptly do their necessary work. It shall be the Contractor's responsibility to meet the affected utility companies as soon as possible to coordinate timely relocations. The Contractor's only recourse against the County for delays caused by failure of the utility companies to adjust or relocate their facilities shall be limited to requesting time extensions for completion of the Contract.

S-12.3 Existing utilities are shown on the plans only by general location based on field surveys and available as built information. The County does not guarantee that the utilities are complete or that the locations are as shown on the plans and the Contractor shall be solely responsible for verifying the exact location of each of these utilities. It is the Contractor's responsibility to notify Gopher State One Call and to ascertain the final location of these utilities prior to commencing construction.

S-12.4 Most utilities are located within the right of way under permits issued by the County. Utilities affected by this project are required to alter, change, vacate or remove their facilities to accommodate the highway construction prior to or concurrently with the Contractor's operations under this Contract. At those locations, where a conflict is encountered between the proposed construction and existing utilities, the County and the affected utility company will determine the method of proceeding to best complete the Project. It is the Contractor's responsibility to coordinate their work with the utility companies and preserve the existing condition of said utilities. All crossings shall be thoroughly backfilled and compacted, using mechanical tampers to prevent any displacement or settlement of the utility facility. It is the Contractor's responsibility to ensure adequate compaction of all utility trenches.

S-12.5 Construction of portions of the road fills and clearing operations under this project will be necessary to provide locations for utilities to relocate. The Contractor is encouraged to stage project work to facilitate utility relocation.

S-12.6 As part of public utility construction, the Contractor will be required to excavate and locate existing municipal and private utilities prior to installing new utilities. This work shall be accomplished where directed by the Engineer with the Engineer determining elevations of the existing utility and shall be considered incidental to the project with no additional compensation allowed therefore.

S-12.7 Wherever existing utility structures or branch connections thereof, present obstructions to the grade and alignment of new structures, the Engineer will provide new grade

and/or alignment for the new utility or plan for revising the existing utility within one working day (24 hours) of the location of the existing utility. If the Contractor elects not to uncover existing utilities and a conflict between utilities occurs, the Contractor shall be required to relay pipe or revise the existing utility, as directed by the Engineer, with no additional compensation allowed therefore.

S-12.8 No deviation from the required line or grade for any utility work due to conflicts with existing utilities shall be made without the written consent of the Engineer.

S-12.9 All work and time delays associated with the locating, uncovering, and backfilling of existing utilities shall be considered incidental work to the project with no additional compensation allowed therefore.

S-12.10 Prospective bidders are encouraged to contact the utility companies prior to submitting proposals for this project to help plan coordination of the highway construction with the utility relocations and adjustments.

S-12.11 The removal of portions of abandoned utility lines and pipes when required for the new construction will be considered incidental work and no direct compensation will be made therefore.

S-12.12 The following utility owners have existing facilities which the work under this Contract may affect. Where necessary, the utility owners intend to relocate or adjust the facilities in advance of or concurrently with the Contractor's operations.

List of Utility Companies - Contact Names - Telephone # - Email Addresses:

Utility conflicts from the design meeting (examples)

S-12.13 Northern Natural Gas Company’s (NNG) pipeline crosses under CSAH 23 near the north end of the project (Station 207). The pipeline is protected by a casing within the existing right of way. NNG plans to extend the casing to the new right of way limits in conjunction with this project. Estimated time for removal -

S-12.14 CenturyLink plans to install a fiber cable on the north side of CSAH 23 (320th Street) and on the west side of CSAH 23 (Foliage Avenue) from CSAH 96 to 290th St W (close to the new right of way limits the entire length to avoid conflicts).

S-12.15 Dakota Electric Association plans to relocate their facilities along the west side of CSAH 23 (Foliage Avenue) out 5-6 feet in the new right of way for the entire length of their territory. Estimated time for relocation –

S-34.1 The progress schedule, as provided for in Section 1803.1, shall be in the form of a bar chart. The progress schedule shall include the work to be done by the utility companies.

S-34.2 The Weekly Look-Ahead Schedule, as provided for in Section 1803.2, shall be revised on a weekly basis and submitted to the County by the end of the day Wednesday. The Weekly Look-Ahead Schedule shall include the work to be done by the utility companies. A $500.00 monetary deduction (per incident) will be assessed by Dakota County for failure to provide a Weekly Look-Ahead Schedule.

Utility Coordination Best Practices

Promoting effective collaborations for efficient project delivery

GUIDE FOR LOCAL AGENCIES

Effective utility coordination leads to many tangible benefits—helping keep construction costs in line and projects on schedule, as well as promoting collaborations that make the process move more smoothly and efficiently for all.

"The more effectively local agencies involve utility companies in the concept and early design stages, the more likely they will avoid costly issues and project delays. Since utility owners play such an important role in a project's success, it's critical to involve them early and consider their utility relocation constraints. Before the project starts, promoting collaboration between the utility and the contractors also pays off in many ways."

GORDON MCCONNELL / RIGHT OF WAY AND PERMIT COORDINATOR / DAKOTA COUNTY

True Impact

How much of a difference can an investment in utility coordination best practices make?

In 2005, the Minnesota Department of Transportation (Mn/DOT) launched a new utility coordination process with the goal of proactively coordinating utilities to minimize project delays, construction costs, and utility-related contractor claims.

Since then, utility-related contractor claims at Mn/DOT have decreased significantly in only a few years. Construction engineers also report fewer delays in the field.

"Mn/DOT is realizing clear benefits from its investment in improved utility coordination," says Marilyn Remer, Mn/DOT Utilities Engineer. "We are identifying utilities earlier and have improved our communication and collaborations with utility owners. It's making a difference."

Mn/DOT Requirements on Local Agency Projects

Local agencies work with Mn/DOT on transportation projects in a variety of ways, and utility coordination can impact both Mn/DOT and local agencies in certain circumstances.

In 2007, Mn/DOT issued a Technical Memorandum regarding utility coordination on cooperative projects. It introduced a new requirement that local agencies submit the Mn/DOT Utility Certification Form, which documents the completion of steps that meet utility-related statutes for the following types of local agency projects:

- Cooperative construction projects that receive trunk highway funds
- Permit projects that require a level one or level two geometric layout for work on the trunk highway
- Case-by-case basis in situations that may include, for example, obtaining new trunk highway right of way, relocating city utilities within the trunk highway right of way, or planning for major excavations on trunk highway right of way

Visit **www.dot.state.mn.us/utility/** for the following forms and information:

- Certification Form
- Local Agency Checklist
- Technical Memo
- Mn/DOT Utilities Manual
- Mn/DOT Permit Application and Information

Starting Points

Mn/DOT developed its utility coordination process based on national, state, and local best practices that include the following:

Starting utility coordination efforts early

Greater emphasis on utility coordination early in the project development process can help reduce design and construction time later in the process.

"Early coordination is important to successful utility relocations," says Steve Lillehaug, Public Works Director and City Engineer for Brooklyn Center. "An early start gives more time for finding the best relocation solutions."

Communicating with utility owners

Best practices call for sharing information with utility owners while projects are in the planning stage and continuing throughout construction. Mn/DOT and many local agencies host an annual meeting with utility owners to review long-term capital improvement programs and upcoming projects. Holding the meetings in mid-March helps utility owners with their budget planning for current and future years.

Considering SUE as an option

Subsurface Utility Engineering (SUE) is a branch of engineering. It involves managing certain risks associated with utility mapping at appropriate quality levels, utility coordination, utility relocation design and coordination, and other utility issues. A study for the Federal Highway Administration quantified a savings of more than $4 for every $1 spent for SUE.

Agencies may want to consider using SUE on any project where inaccurate underground utility information would negatively impact the project in a significant way or when underground facilities are present in areas of excavation or where other activities disturb the ground. For information about SUE, visit www.fhwa.dot.gov/programadmin/sueindex.cfm.

Complying with statutory requirements

Mn/DOT, local agencies, and utility owners must comply with Minnesota statutory requirements, which include contacting Gopher State One Call for utility identification and verification before construction, a meeting with utility owners during the design phase, and a preconstruction meeting with utility owners. For information about utility-related statutes (161.20, 161.45, 161.46, 222.37, and 216D.01-07), visit www.leg.state.mn.us/leg/statutes.asp.

Following a consistent process

Approaching utility identification and utility relocation through the use of a consistent process based on best practices achieves several aims. It clarifies roles and responsibilities, helps all parties understand what needs to happen, and supports the communication that needs to take place for successful utility relocation. Steps to effective utility coordination based on best practices are highlighted next.

"We spend millions of dollar each year to relocate or adjust our facilities for road construction projects. It's very important for us to know as soon as possible about utility relocations so we can plan our resources accordingly."

ROSS LARSON / QWEST MANAGER, ENGINEERING / QWEST

Steps to Effective Utility Coordination

Annual Project Meeting	1	Hosting an annual meeting with utility owners to review long-term and upcoming projects
Utility Identification	2	*(Fulfills M.S. 216D.04 Subd. 1a requirements)* Using a variety of methods—Gopher State One Call, utility owner contact, field reviews, surveys, and other sources—to identify utilities, utility easements, and other related issues
Utility Information Meeting	3	Preparing plan sheets as soon as possible during preliminary design and hosting a utility information meeting on complex projects to identify utility issues and possible solutions
Review of Utility Owner Information	4	Reviewing utility owner-marked plans, considering design modifications to minimize utility impacts; communicating with utility owners and with road agencies regarding potential reimbursement or right of way needs
Utility Design Meeting	5	*(Fulfills the M.S. 216D.04 Subd. 1a requirements)* Preparing plan sheets during detail design and hosting a utility design meeting to discuss all potential utility conflicts and resolution
Request for Utility Relocation Plans	6	Setting the deadline for submission of utility relocation plans, sending each utility owner a set of project plans, and following up as necessary
Utility Design Change Meeting	7	Hosting a meeting with utility owners if there are significant changes in the project or right of way
Gopher State One Call Utility Verification	8	*(Fulfills the M.S. 216D.04 Subd. 1a requirements)* Contacting Gopher State One Call 90 days before completion of the final plan for bid or contract, depicting any additional utility facilities on plans, and coordinating impacts
Utility Relocation Plan and Schedule Review	9	Reviewing utility relocation plans and schedules and requesting submission of required permits if applicable
Agreements and Official Notification	10	Contacting road agencies regarding utility agreements and other agency permits and notifying utility owner to proceed after confirming permits and agreements are in place
Contract Documents and Final Plan	11	*(Utility depiction and indication of quality levels in plans fulfills 216D requirements)* Including the appropriate information and depiction in plans, such as quality level, utility tabulation sheet, and appropriate information in utility special provisions, and submitting the certification form to Mn/DOT when applicable
Construction	12	*(Fulfills the M.S. 216D.04 Subd. 1a requirements)* Setting and hosting a preconstruction meeting and assisting the transition between the designer and construction contract administrator

Q&A

Q: Why invest in effective utility coordination?

A: Construction engineers often point to issues with utility relocations as one of the most common reasons for project delays and increased project costs.

Q: What does Mn/DOT require for certain types of local projects?

Mn/DOT requires local agencies to submit the Mn/DOT Utility Certification Form for three types of projects: cooperative construction projects that receive trunk highway funds, permit projects that require a level one or level two geometric layout for work on the trunk highway, and case-by-case situations that involve trunk highway right of way.

Q: What role does a permit play?

Utility owners must receive an approved permit before they can begin work. The permits help ensure that the utility will not conflict with project construction, future projects, or other federal, state, or local laws, rules, and regulations.

Q: What are some tips to working with utility owners?

Ongoing communication is important in building productive collaborations with utility owners. Host an annual meeting with utility owners to share information about upcoming projects. Allow adequate time for utility relocation planning, design, and right-of-way acquisition. Supply utility owners with the preliminary plans that they will need and appropriate contact information. Be sure to follow-up with your utility representative and check with the utility owner contact if your utility representative is unresponsive. For a statewide list of utility owner contacts, visit **www.dot.state.mn.us/utility/files/pdf/contacts/contact-utility.pdf**.

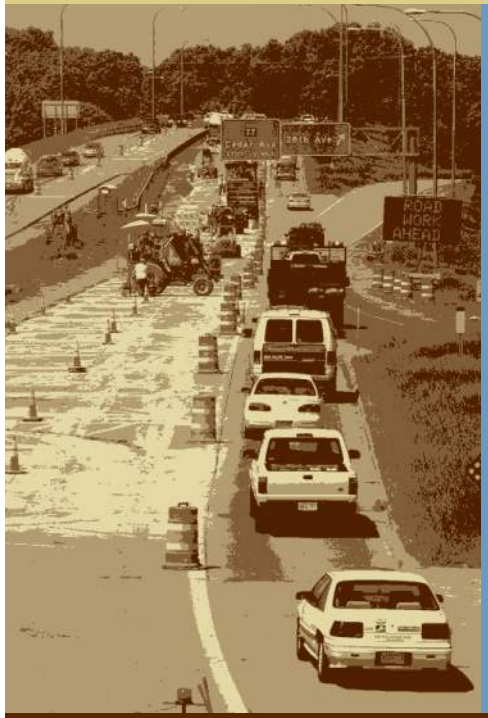
www.dot.state.mn.us/utility/

Contractor's Guide

Understanding your role in utility relocations

C-589

Effective utility coordination leads to many tangible benefits—helping keep construction costs in line and projects on schedule, as well as promoting collaborations that make the process move more smoothly and efficiently for all.



"Mn/DOT is realizing clear benefits from its investment in improved utility coordination. We are identifying utilities earlier and have improved our communication and collaborations with utility owners. It's making a difference."

MARILYN REMER / UTILITIES ENGINEER / MN/DOT

Effective utility coordination helps reduce claims

In 2005, the Minnesota Department of Transportation (Mn/DOT) launched a new utility coordination process with the goal of proactively coordinating utilities to minimize project delays, construction costs, and utility-related contractor claims.

Since then, utility-related contractor claims at Mn/DOT have decreased significantly. Construction engineers also report fewer delays in the field.

Contractors continue to play an important role

While more utility relocations are taking place before construction begins, it is not always possible to complete all utility relocations in advance. Contractors will continue to play an important role in helping facilitate successful utility relocations.

Resources

Visit www.dot.state.mn.us/utility/ for more information:

- Mn/DOT Utilities Manual
- Mn/DOT Permit Information

Q&A

Why aren't all utility relocations done in advance of construction?

The Mn/DOT 15-step utility coordination process encourages early identification of utilities and, when possible, relocation before construction. However, it is not always possible or practical to complete all utility relocations before construction begins (e.g., a utility facility is located directly below the pavement the contractor will remove). The contract special provisions include schedules for utility relocations.

Q&A

Why isn't GPS required for utility locations?

Minnesota Statutes, section 216D.04, requires information regarding the general location, type, size, and utility quality level of affected utilities to be included in all construction plans that contain excavation. The statute does not require GPS location information.

Preconstruction

Work on utility relocations begins early in the design process and continues with the development of utility relocation plans and contract special provisions. Contractors are responsible for understanding plans and contract special provisions and following them in the field.

Plans include relocation information

As part of the request for bids, Mn/DOT includes a utility tabulation sheet in the plans that documents whether each facility will be adjusted, relocated, or left as is. In cases that involve significant utility work, Mn/DOT may develop plan sheets that depict the planned utility facility relocations.

Contract special provisions provide direction for contractors

Mn/DOT provides information that is as accurate and specific as possible. In addition to assisting bidders with bid proposal preparation, this information helps contractors plan their operations to avoid damage and disruption to utility facilities and prepare their own project construction schedules accordingly.

Utility special provisions in the contract make the Mn/DOT contractor aware of activities that will occur within the project limits during the life of the project and will require mutual coordination between the utility owner and the Mn/DOT contractor.

Contract special provisions 1507 and 1803 include utility coordination information for contractors.

1507 Mn/DOT contract **special provision 1507** contains coordination information for all utility facilities to be moved concurrently with contractor operations, including:

UTILITY CONTACT INFORMATION
Name of utility, contact person, phone, fax, and e-mail for all utility owners that have facilities located within the project limits, including ones whose facilities are not affected

DESCRIPTION
Written description of utility relocations, adjustments, and other factors, as necessary, to supplement information on the utility tabulations

RESTRICTIONS
Restraints such as seasonal restrictions for taking a facility out of service or for working around or protecting facilities

RELOCATION SCHEDULE
The anticipated number of working days and/or the specific calendar completion date for individual relocations, including information from the relocation schedule that can help the Mn/DOT contractor determine the amount of lead time a utility owner will need to complete a specific relocation

1803 Mn/DOT contract **special provision 1803** contains all of the work that Mn/DOT contractors are required to perform to accommodate a relocation, such as clearing and grubbing by a certain date, providing for material delivery, or excavating a specified area to final grade.

Is a permit required for utility relocations?

Q&A

Yes, the utility owner is responsible for receiving an approved Mn/DOT permit in advance of any utility relocation. The permit helps ensure that the utility will not conflict with project construction, other future Mn/DOT projects, or federal, state, or local laws, rules, policies, and regulations. Utility contractors must keep their approved permit on site while they are completing their work.

What are Gopher State One Call requirements?

Q&A

Minnesota Statues, section 216D.04, sub. 1a, requires that the location information the state obtains from affected utility owners be depicted on the final plan used for the bid or contract along with the utility quality level of that information. This information must be updated no more than 90 days before completion of the final plan for bid or contract.

State law also requires that an excavator must call Gopher State One Call (651-454-0002 or 1-800-252-1166) at least 48 hours, excluding weekends, holidays, and emergencies, before digging.

Construction

During construction, the contractor, Mn/DOT construction personnel, and utility owners work together to ensure smooth utility relocation.

Contractors attend preconstruction and other meetings

Minnesota Statutes, section 216D.04, requires at least one preconstruction meeting to communicate the project construction and coordinate utility relocation. The meeting offers project participants the opportunity to review and discuss the proposed sequence of operations, raise and resolve concerns about the overall construction plan, and talk about the work that the contractor may need to do before utility owners can complete their relocations. Mn/DOT construction also may organize other meetings that involve the utility owners and the contractor.

Communication is key

Effective coordination requires communication and participation by all parties. Through early and thorough coordination, the utility coordination process helps to reduce the number of field issues and prevent delays. The contractor is responsible for keeping Mn/DOT informed about any issues with utility relocations.

Mn/DOT and contractors work together throughout the process

Collaboration between Mn/DOT and contractors is critical to the project's success.

For example, a schedule for the utility relocation is outlined before construction begins. Using the relocation plan and the schedule, Mn/DOT works with utility owners to set a more exact schedule for relocations and coordinates the timing of utility relocations with contractor activities. This collaboration supports more effective coordination.

If issues arise in the field, meetings and ongoing communication throughout the project help promote their resolutions.

Some important points to remember include the following:

CHANGES

A change in Mn/DOT project plans during construction may impact utility relocations.

If the contractor requests the utility to make moves or changes to do work solely for the contractor's benefit or convenience, the contractor must gain the utility owner's acceptance of the change and must pay any extra cost for that work.

NOTIFICATION

The contractor is responsible for notifying Mn/DOT immediately regarding any potential delays.

QUESTIONS

As a contractor, if you have any questions about utility issues, contact the Mn/DOT construction group representative.

Why is early notification of any utility issue critical?

Q&A

Utility delay claims represent some of the most significant financial impacts on the project's schedule and budget. Early notification of any utility issue helps resolve those issues as soon as possible, so that they do not delay work on a project.

Effective communication and coordination among Mn/DOT, the contractor, and utility owners can lead to win-win solutions for all involved.

What happens if a utility owner does not cooperate?

Q&A

Contact Mn/DOT immediately if there are issues with utility owners. Most issues can be resolved through communication. Mn/DOT also has developed a dispute resolution process to help ensure communication and improved resolution in times of misunderstanding or conflict.

www.dot.state.mn.us/utility/

APPENDIX D
TEMPLATE LETTERS TO UTILITY PROVIDERS

Email Notification:

Hello,

This is your invitation for a utility coordination meeting for the [agency's] [X Improvement Project]. **The Utility Coordination Meeting will be held on [date] at [time] in the [location].**

The project includes [X]. [Project description here].

[Include any other info such as timing].

The preliminary layout for the corridor is attached.

If you are unable to make the meeting or have questions prior to the meeting please call [phone number] or email me [email]. If you are not the correct contact please forward this to the appropriate contact for [city].

Thank you,

[Date]

Subject: Project Notification
[project name]
[highway]
[county]
[project number]

Attention: [Identified contact]

On [date], Gopher State One Call contacted you about ticket number [**X**], regarding the above-referenced [agency] construction project. As of this writing, [agency] has not received any of the information requested from your office. This letter outlines instructions regarding location and design work to help you comply with our request. For your reference, a copy of the general layout of the proposed construction area is enclosed.

Location Work

Please follow the instructions below and provide us with any necessary information for all of your existing facilities within the proposed construction area according to Minnesota Statutes, section 216D.04, subdivision 1a, "Plans for Excavation:"

1) Show the approximate location of all of your facilities, including facilities that you have that are out of service. You may provide maps or diagrams of the facilities within the proposed construction area. Please call me at [phone number] if you wish to provide actual field location information.

2) Indicate the size and type of each facility (for example, "6-inch cast iron pipe").

3) Indicate the voltage of all electrical power lines.

Please comply with this location request by date. Failure to perform the work by this date would place you in violation of Minnesota Statutes, section 216D.04, subdivision 1a. As this statute identifies, the [agency] will contact the Commissioner of Pipeline Safety and begin proceedings if a violation occurs.

If you have any questions or comments regarding the plan for the above-referenced project, please contact me at [phone number].

Sincerely,

[Date]

Subject: Project Notification
[project name]
[highway]
[county]
[project number]

Attention: Identified contact [X]

The following utilities have been identified as having facilities within the project boundary:

[list all recipients – include utility name, contact, address, and city state zip]

Project Description:

[Agency] is in the design phase of the identified project on [highway number]. Receipt of project bids is currently scheduled for [let date]. The construction elements for this project will include: [include project description and/or identify project work elements].

I have included your name and phone number in the contract specification as the utility contact for construction issues that may arise.

Plan Review

The enclosed plans represent the preliminary project map, as such your facilities are not identified. Please review against your facility mapping and notify us if you have any potential conflicts or concerns with the project plans.

If error or omissions are discovered during construction, your organization may be held responsible for delay claims that are caused by your organization's failure to notify [agency] or any errors or omissions.

Project Resources

For questions regarding this notification and its requirements, please feel free to contact me via phone, email or US mail.

Please include the project name and number in all correspondence:

Project Name: [X]

Project Number: [X]

Please note, a hard copy of this letter will not be mailed, unless requested.

[Date]

TO: Distribution

RE: [Project Name]

[City, Minnesota]

The [agency] will be improving a section of streets within the [city/county] consisting of [reclamation of the existing pavement, reconstruction of the existing street section, soil remediation, curb & gutter, trail improvements and pavement installation]. You are receiving this letter because your organization was identified on the Gopher State One Call locate request ticket as owning utilities in the project area. As such, we are asking for your participation and cooperation in reviewing your above and/or below ground private utility infrastructure. The first Utility Coordination Meeting for the project will be held at [time] on [date] at [location].

Please see attached for a Location Map that gives an overview of the project area and for a copy of the 90% Draft Plans including existing utilities. Please review the draft plan sheets and note any discrepancies in the way your utilities have been depicted or add them if they are missing. In addition, we are requesting the type, size, elevation, and potential needs for improvement of your utilities as well as any easement information and a written notification of any potential conflicts or if your utilities are clear of the project area. Relocations may be required depending on the location of private utilities relative to the location of proposed improvements.

Please return requested information to me as soon as possible so this information can be discussed at the meeting and incorporated in the final design of the project. Thank you in advance for your cooperation and assistance. If you have any questions or concerns, please email me at [email] or call [phone number].

Your attendance is requested at the *Utility Coordination Meeting* for this project:

Time: [Time & Date], 2019
Location: [Location]
[Address]
[Address line 2]

If you cannot attend this meeting, please have a representative present in your absence who can discuss relocations, schedules, and make decisions about this project.

Sincerely,

[Date]

[Name]
[Company]
[Address]

[Agency Project X]

Re: Utility Adjustment & Relocation Notice

Dear [X]:

[Agency] is planning to reconstruct [X from x to x] in [city/county]. Your company's facilities may need to be adjusted because of the road reconstruction and utility improvements. A notice for the preconstruction meeting will be sent out before the start of the project and a representative from your company is required to attend and be prepared to discuss any involvement your firm has with this project.

This letter serves as [utility company] written notice for any adjustments or relocations of the company's facilities in relation to this project. Utilities that are installed on [Agency] right of way by permit are required within 15 days of this notice to start preparations to alter, change, vacate or remove their facilities to conform with the highway changes. This work shall be done without any cost whatsoever to [Agency] and should be completed prior to the start of construction [Month, Day, Year], if possible, or in conjunction with the highway construction. [utility company] shall assume all liability and save [Agency] harmless from any and all claims or damage of any nature whatsoever by reason of not having altered, changed, vacated, or removed the affected facilities, which result in a construction delay to this project.

Utilities on their own easement or outside of the [Agency's] right of way, but within the highway construction limits, may also need to be removed or relocated. Please submit any documentation you have showing the easement and/or facilities that may be affected. Coordinate any relocation work with the highway contractor in order to expedite the construction work.

Please submit a copy of you relation plans and proposed schedule to me by [Month, Day, Year]. If you cannot do so, please contact me by [Month, Day, Year] to make other arrangements. You must also submit a utility permit application for the facilities that need to be relocated on County highway right of way to help coordinate public and private utility relocation and provide a permanent record of your installed facilities. All permit fees can be waived for work done in relation to a [Agency] road project. If you have any questions or comments regarding the plans for this project or would like a link to 100% plans, please contact me at [phone number].

Thank you for your time and cooperation on the [X] improvements project.