

Western Federal Lands Highway Division



EEBACS Construction Paynote Examples

Construction Paynote Examples

This book was developed to be used as a tool for Western Federal Lands Highway Division staff, our partnering agencies, and the contractors we work with. The Construction Paynote Examples book gives examples of how a contractor should submit a request for payment (paynote), and what documentation is required to support their request.

Section 109 Measurement and Payment of the FP-03 details how items of work should be measured and paid. Examples in this book were created to demonstrate the various methods of measurement and support documentation. The method prescribed in the FP-03 or Special Contract Requirements supersede any example give in the Field Note Sample Book.

General Instructions

- Take or convert all measurements according to International System of Units (SI), IEEE/ASTM SI 10.
- Prepare, sign, and submit electronic measurement notes (paynotes) using EEBACS .
- To correct an error, generate a new paynote if existing paynote has been submitted to PE and accepted.
- Paynotes and any support documentation shall be organized and clearly legible.
- As a minimum, include the following information in the EEBACS paynote and support documentation:
 - (a) Project number and name;
 - (b) Pay item number and description;
 - (c) Date the work was performed;
 - (d) Location of the work;
 - (e) Measured quantity;
 - (f) Calculations made to arrive at the quantity;
 - (g) Supporting sketches and details as needed to clearly define the work performed and the quantity measured;
 - (h) Names of persons measuring the work;
 - (i) Identification as to whether the measurement is interim or final; and
 - (j) Signed certification statement by the persons taking the measurements and performing the calculations, that the measurements and calculations are correct.

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Projects: [WA PRA FVNP 100\(1...](#) Constructions: [Progress Pay Periods](#) 1 INS: [Pay Note](#)

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Project Info Design **Construction** Account Team

Core Contract Status **Progress Payment** SubContractors Labor/Equipment Daily Reports Daily Diary Claims Contract Modifications

Grand Summary **Pay Notes** Pay Note Summaries Non CM Pay Items Period Account Progress Payment Tracking

Project Number: WA PRA FVNP 100(1)

Project Name: FORT VANCOUVER NATIONAL PARK

Contract Number: DTFH-C2014

States: WA

[Save & Close](#) [Save](#) [Delete](#) [Cancel](#) [Cancel & Close](#) [Submit To PE](#) [Print Preview](#) [Print Preview \(Contractor Version\)](#)

** indicates a required field

FHWA Pay Note

Pay Note: 1 INS

Pay Item Number:

15101-0000

Line Number:

A 0020

Period: 1 INS

Pay Item Type:

Normal pay item

Contract Mod #:

Description: MOBILIZATION

Contract Quantities				Revised Quantities		Probables		
Acct	Quantity	Unit Price	Unit	Amount	Qty	Amount	Quantity	Amount
	100%	\$800,000.00	LPSM	\$800,000.00	100%	\$800,000.00	100%	\$800,000.00
CON01	100%	\$800,000.00	LPSM	\$800,000.00	100%	\$800,000.00	100%	\$800,000.00
								% Over / Under
								0.00
								0.00

Pay Note Date*:

03-03-2014

[select](#)

[clear](#)

Entries:

Pay Note Entry #1

Work Date Start Date*:

02-01-2014

[select](#)

[clear](#)

Work Date End Date*:

02-28-2014

[select](#)

[clear](#)

Location/Description*:

B I U [List](#) [Table](#) [Link](#) [Image](#) [AEC](#)

Refer to FP-03 151.03(b)

Original contract amount (\$8,515,025) minus mobilization (\$800,000) = revised total (\$7,715,025)

Contract work complete to date = \$475,000 (which is greater than 5% contract amount via other bid items)

Pay lesser of the following two amounts:

(a) 50% of mobilization = \$400,000

(b) 5% of original contract = \$425,751.25

CON01 Main account Quantity:

\$ 400000

Remarks/Calculations:

B I U [List](#) [Table](#) [Link](#) [Image](#) [AEC](#)

Paynote 1 of 2 in series

[Delete](#)

[Add Entry](#)

CON01 Main account Quantity: \$400,000.00

Total Pay Note Quantity: \$400,000.00

Total Production Days:

28

Production Rate:

\$14,285.71/Day

Measured By*:

Bob COE

FHWA Inspector:

Contractor Inspector:

Interim/Final*:

☒ Interim

☐ Final

Supporting Documentation:

[Add Document](#)

Reference:

B I U [List](#) [Table](#) [Link](#) [Image](#) [AEC](#)

[Save & Close](#) [Save](#) [Delete](#) [Cancel](#) [Cancel & Close](#) [Submit To PE](#) [Print Preview](#) [Print Preview \(Contractor Version\)](#)

Projects: WA PRA FVNP 100(1... Constructions: Progress Pay Periods 1 INS: Pay Note

Return To Proj

Project Info Design Construction Account Team

Core Contract Status Progress Payment SubContractors Labor/Equipment Daily Reports Daily Diary Claims Contract Modifications

Grand Summary Pay Notes Pay Note Summaries Non CM Pay Items Period Account Progress Payment Tracking

Project Number: WA PRA FVNP 100(1)

Project Name: FORT VANCOUVER NATIONAL PARK

Contract Number: DTFH-C2014

States: WA

Save & Close Save Delete Cancel Cancel & Close Submit To PE Print Preview Print Preview (Contractor Version)

* indicates a required field

FHWA Pay Note

Pay Note: 28 INS

Pay Item Number:

15101-0000

Line Number:

A 0020

Period: 1 INS

Pay Item Type:

Normal pay item

Contract Mod #:

Description: MOBILIZATION

	Contract Quantities				Revised Quantities		Probables		
Acct	Quantity	Unit Price	Unit	Amount	Qty	Amount	Quantity	Amount	% Over / Under
	100%	\$800,000.00	LPSM	\$800,000.00	100%	\$800,000.00	100%	\$800,000.00	0.00
CON01	100%	\$800,000.00	LPSM	\$800,000.00	100%	\$800,000.00	100%	\$800,000.00	0.00

Pay Note Date*:

04-02-2014

select

clear

Entries:

Pay Note Entry #1

Work Date Start Date*:

03-01-2014

select

clear

Work Date End Date*:

03-31-2014

select

clear

Location/Description*:

B I U [List Icon] [Table Icon] [ABC Icon]

Refer to FP-03 151.03(c)

Original contract amount (\$8,515,025) minus mobilization (\$800,000) = revised total (\$7,715,025)

Contract work complete to date = \$875,500 (which is greater than 10% contract amount via other bid items)

Pay lesser of the following two amounts:

(a) 100% of mobilization = \$800,000

(b) 10% of original contract = \$851,502.50

Previous Payment = \$400,000

Remaining balance for payment: \$800,000 - \$400,000 = \$400,000

CON01 Main account Quantity:

\$ 400000

Remarks/Calculations:

B I U [List Icon] [Table Icon] [ABC Icon]

Paynote 2 of 2 in series

Delete

Add Entry

CON01 Main account Quantity: \$400,000.00

Total Pay Note Quantity: \$400,000.00

Total Production Days:

31

Production Rate:

\$12,903.23/Day

Measured By*:

Bob COE

FHWA Inspector:

Contractor Inspector:

Interim/Final*:

Interim

Final

Supporting Documentation:

Add Document

Reference:

B I U [List Icon] [Table Icon] [ABC Icon]

Save & Close Save Delete Cancel Cancel & Close Submit To PE Print Preview Print Preview (Contractor Version)

Projects: [WA PRA FVNP 100\(1...](#) Constructions: [Progress Pay Periods](#) 1 INS: [Pay Note](#) [Return To Proj](#)

Project Info Design **Construction** Account Team

Core Contract Status **Progress Payment** SubContractors Labor/Equipment Daily Reports Daily Diary Claims Contract Modifications

Grand Summary **Pay Notes** Pay Note Summaries Non CM Pay Items Period Account Progress Payment Tracking

Project Number: WA PRA FVNP 100(1) Project Name: FORT VANCOUVER NATIONAL PARK Contract Number: DTFH-C2014 States: WA

Save & Close Save Delete Cancel Cancel & Close Submit To PE Print Preview Print Preview (Contractor Version) * indicates a required field

FHWA Pay Note

Pay Note: 2 INS Pay Item Number: 15201-0000 Line Number: A 0040
 Period: 1 INS Pay Item Type: Normal pay item Contract Mod #:
 Description: CONSTRUCTION SURVEY AND STAKING

Contract Quantities					Revised Quantities		Probables		
Acct	Quantity	Unit Price	Unit	Amount	Qty	Amount	Quantity	Amount	% Over / Under
	100%	\$250,000.00	LPSM	\$250,000.00	100%	\$250,000.00	100%	\$250,000.00	0.00
CON01	100%	\$250,000.00	LPSM	\$250,000.00	100%	\$250,000.00	100%	\$250,000.00	0.00

Pay Note Date*: 08-01-2014

Entries:

Pay Note Entry #1

Work Date Start Date*: 07-01-2014

Work Date End Date*: 07-31-2014

Location/Description*:

B *I* U

Per FP-03 152.06 Payment is prorated based on the total work completed
 Total Bid = \$8,515,025
 Work completed to date \$1,432,000 = 16.8%
 Construction Survey and Staking Bid Item Total = \$250,000
 16.8% of \$250,000 = \$42,000

CON01 Main account Quantity: \$ 42000

Remarks/Calculations:

B *I* U

CON01 Main account Quantity: \$42,000.00

Total Pay Note Quantity: \$42,000.00

Total Production Days: 31

Production Rate: \$1,354.84/Day

Measured By*: Bob COE

FHWA Inspector:

Contractor Inspector:

Interim/Final*: ☒ Interim ☐ Final

Supporting Documentation:

Reference:

B *I* U

Save & Close Save Delete Cancel Cancel & Close Submit To PE Print Preview Print Preview (Contractor Version)

Projects: WA PRA FVNP 100(1... Constructions: Progress Pay Periods 1 INS: Pay Note

Return To Pro

Project Info Design **Construction** Account Team

Core Contract Status **Progress Payment** SubContractors Labor/Equipment Daily Reports Daily Diary Claims Contract Modifications

Grand Summary **Pay Notes** Pay Note Summaries Non CM Pay Items Period Account Progress Payment Tracking

Project Number: WA PRA FVNP 100(1)

Project Name: FORT VANCOUVER NATIONAL PARK

Contract Number: DTFH-C2014

States: WA

Save & Close Save Delete Cancel Cancel & Close Submit To PE Print Preview Print Preview (Contractor Version)

* indicates a required field

FHWA Pay Note

Pay Note: 40 INS

Pay Item Number:

15201-0000

Line Number:

A 0040

Period: 1 INS

Pay Item Type:

Normal pay item

Contract Mod #:

Description: CONSTRUCTION SURVEY AND STAKING

Contract Quantities					Revised Quantities		Probables		
Acct	Quantity	Unit Price	Unit	Amount	Qty	Amount	Quantity	Amount	% Over / Under
	100%	\$250,000.00	LPSM	\$250,000.00	100%	\$250,000.00	100%	\$250,000.00	0.00
CON01	100%	\$250,000.00	LPSM	\$250,000.00	100%	\$250,000.00	100%	\$250,000.00	0.00

Pay Note Date*:

08-02-2014

select

clear

Entries:

Pay Note Entry #1

Work Date Start Date*:

07-01-2014

select

clear

Work Date End Date*:

07-31-2014

select

clear

Location/Description*:

Per 152.03 Submit a breakdown for use in progress payment:

100% complete of "Check Existing Control": \$60,000

100% complete of "Stake Rockery Wall": \$2,500

50% complete of "Stake Pipe": (0.5)(\$55,000) = \$27,500

Total this estimate: \$90,000

Do Not Copy and Paste
Tables. EEBACS Does Not
Like It.

CON01 Main account Quantity:

\$ 90000

Remarks/Calculations:

*See attached Surveying Work Breakdown

Delete

Add Entry

CON01 Main account Quantity: \$90,000.00

Total Pay Note Quantity: \$90,000.00

Total Production Days:

31

Production Rate:

\$2,903.23/Day

Measured By*:

Bob COE

FHWA Inspector:

Contractor Inspector:

Interim/Final*:

☒ Interim ☐ Final

Supporting Documentation:

File Name:

152_Survey_Breakdown_Example.pdf

Delete

Add Document

Reference:

Save & Close Save Delete Cancel Cancel & Close Submit To PE Print Preview Print Preview (Contractor Version)

Western Federal Lands Highway Division
Project Engineer
610 E 5th Street
Vancouver, WA 98661

WA PRA FVNP 100(1)
FORT VANCOUVER NATIONAL PARK
DTFH-C2014

Dear Mr. Engineer,

As per your request here is the following breakdown for Surveying for the above referenced project,

Check Existing Control	24%	\$60,000.00
Stake Pipe	22%	\$55,000.00
Stake Channel Changes	5%	\$12,500.00
Stake Approach Roads	7%	\$17,500.00
Stake Rockery Wall	1%	\$2,500.00
Stake Underdrain System	7%	\$17,500.00
Stake Curb and Gutter	2%	\$5,000.00
Stake Signs	3%	\$7,500.00
Stake Guardrail	2%	\$5,000.00
Set Blue and Red Tops	25%	62,500.00
Layout Striping	2%	\$5,000.00
Grand Total	100%	\$250,000.00

If you have any questions please call me at 360-XXX-XXXX

Sincerely,

John Smith
Project Manager

[Projects: WA PRA FVNP 100\(1...](#) [Constructions: Progress Pay Periods](#) [1 INS: Pay Note](#)
[Return To Pro](#)

[Project Info](#) [Design](#) **[Construction](#)** [Account](#) [Team](#)

[Core](#) [Contract Status](#) **[Progress Payment](#)** [SubContractors](#) [Labor/Equipment](#) [Daily Reports](#) [Daily Diary](#) [Claims](#) [Contract Modifications](#)

[Grand Summary](#) **[Pay Notes](#)** [Pay Note Summaries](#) [Non CM Pay Items](#) [Period](#) [Account](#) [Progress Payment Tracking](#)

Project Number: WA PRA FVNP 100(1) **Project Name:** FORT VANCOUVER NATIONAL PARK **Contract Number:** DTFH-C2014 **States:** WA

[Save & Close](#) [Save](#) [Delete](#) [Cancel](#) [Cancel & Close](#) [Submit To PE](#) [Print Preview](#) [Print Preview \(Contractor Version\)](#)

* indicates a required field

FHWA Pay Note

Pay Note: 4 INS **Pay Item Number:** 15301-0010 **Line Number:** A 0060
Period: 1 INS **Pay Item Type:** Normal pay item **Contract Mod #:**
Description: CONTRACTOR QUALITY CONTROL AND ASSURANCE

	Contract Quantities			Revised Quantities		Probables			
Acct	Quantity	Unit Price	Unit	Amount	Qty	Amount	Quantity	Amount	% Over / Under
	100%	\$500,000.00	LPSM	\$500,000.00	100%	\$500,000.00	100%	\$500,000.00	0.00
CON01	100%	\$500,000.00	LPSM	\$500,000.00	100%	\$500,000.00	100%	\$500,000.00	0.00

Pay Note Date*: 04-01-2014 [select](#) [clear](#)

Entries:

Pay Note Entry #1

Work Date Start Date*:

03-01-2014 [select](#) [clear](#)

Work Date End Date*:

03-31-2014 [select](#) [clear](#)

Location/Description*:

B **I** **U**

Payment prorated based on total work completed

Original contract amount: \$8,515,025

10% of contract work complete to date: \$851,502.50

Item 15301 bid total is: \$500,000

10% of 15301: \$50,000

Payment this estimate: \$50,000

CON01 Main account Quantity:

\$ 50000

Remarks/Calculations:

B **I** **U**

Paynote 1 of 2 in Series

[Delete](#)[Add Entry](#)**CON01 Main account Quantity:** \$50,000.00

Total Pay Note Quantity: \$50,000.00

Total Production Days: 31

Production Rate: \$1,612.90/Day

Measured By*: Bob COE

FHWA Inspector:

Contractor Inspector:

Interim/Final*: ☒ Interim ☐ FinalSupporting Documentation: [Add Document](#)

Reference:

B **I** **U**
[Save & Close](#) [Save](#) [Delete](#) [Cancel](#) [Cancel & Close](#) [Submit To PE](#) [Print Preview](#) [Print Preview \(Contractor Version\)](#)

Projects: WA PRA FVNP 100(1... Constructions: Progress Pay Periods 1 INS: Pay Note

[Return To Pro](#)

Project Info Design **Construction** Account Team

Core Contract Status **Progress Payment** SubContractors Labor/Equipment Daily Reports Daily Diary Claims Contract Modifications

Grand Summary **Pay Notes** Pay Note Summaries Non CM Pay Items Period Account Progress Payment Tracking

Project Number: WA PRA FVNP 100(1) Project Name: FORT VANCOUVER NATIONAL PARK Contract Number: DTFH-C2014 States: WA

Save & Close Save Delete Cancel Cancel & Close Submit To PE Print Preview Print Preview (Contractor Version)

* indicates a required field

FHWA Pay Note

Pay Note: 31 INS Pay Item Number: 15301-0010 Line Number: A 0060
 Period: 1 INS Pay Item Type: Normal pay item Contract Mod #:
 Description: CONTRACTOR QUALITY CONTROL AND ASSURANCE

	Contract Quantities			Revised Quantities		Probables			
Acct	Quantity	Unit Price	Unit	Amount	Qty	Amount	Quantity	Amount	% Over / Under
	100%	\$500,000.00	LPSM	\$500,000.00	100%	\$500,000.00	100%	\$500,000.00	0.00
CON01	100%	\$500,000.00	LPSM	\$500,000.00	100%	\$500,000.00	100%	\$500,000.00	0.00

Pay Note Date*: 05-02-2014

Entries:

Pay Note Entry #1

Work Date Start Date*: 04-01-2014

Work Date End Date*: 04-30-2014

Location/Description*: **B I U**

Payment prorated based on total work completed
 Original contract amount: \$8,515,025
 25% of contract work complete to date: \$2,128,756.25
 Item 15301 bid total is: \$500,000
 25% of 15301: \$125,000
 Previous payment from Estimate 1: \$50,000
 Total this estimate: \$125,000 - \$50,000 = \$75,000

CON01 Main account Quantity:
 \$ 75000

Remarks/Calculations: **B I U**

Paynote 2 of 2 in Series

CON01 Main account Quantity: \$75,000.00

Total Pay Note Quantity: \$75,000.00

Total Production Days: 30

Production Rate: \$2,500.00/Day

Measured By*: Bob COE

FHWA Inspector:

Contractor Inspector:

Interim/Final*: ☒ Interim ☐ Final

Supporting Documentation:

Reference: **B I U**

Save & Close Save Delete Cancel Cancel & Close Submit To PE Print Preview Print Preview (Contractor Version)

Projects: WA PRA FVNP 100(1)... Constructions: Progress Pay Periods 1 INS: Pay Note

[Return To Proj](#)

Project Info	Design	Construction	Account	Team
Core	Contract Status	Progress Payment	SubContractors	Labor/Equipment
			Daily Reports	Daily Diary
			Claims	Contract Modifications
Grand Summary	Pay Notes	Pay Note Summaries	Non CM Pay Items	Period
		Account	Progress Payment Tracking	

Project Number: WA PRA FVNP 100(1)

Project Name: FORT VANCOUVER NATIONAL PARK

Contract Number: DTFH-C2014

States: WA

[Save & Close](#)
[Save](#)
[Delete](#)
[Cancel](#)
[Cancel & Close](#)
[Submit To PE](#)
[Print Preview](#)
[Print Preview \(Contractor Version\)](#)

* indicates a required field

FHWA Pay Note

Pay Note: 5 INS

Pay Item Number:

15401-0000

Line Number:

A 0080

Period: 1 INS

Pay Item Type:

Normal pay item

Contract Mod #:

Description: CONTRACTOR TESTING

Contract Quantities				Revised Quantities		Probables		
Acct	Quantity	Unit Price	Unit	Amount	Qty	Amount	Quantity	Amount
	100%	\$250,000.00	LPSM	\$250,000.00	100%	\$250,000.00	100%	\$250,000.00
CON01	100%	\$250,000.00	LPSM	\$250,000.00	100%	\$250,000.00	100%	\$250,000.00
								% Over / Under
								0.00
								0.00

Pay Note Date*:

05-01-2014

[select](#)[clear](#)

Entries:

Pay Note Entry #1

Work Date Start Date*:

04-01-2014

[select](#)[clear](#)

Work Date End Date*:

04-30-2014

[select](#)[clear](#)

Location/Description*:

B *I* U

Refer to FP-03 154.07(a)

Original contract amount = \$8,515,025

Testing facilities in-place, qualified sampling/testing personnel identified, testing commenced

15401 bid item total = \$250,000

Pay lesser of the two amounts:

(a) 25% of 15401 item = \$62,500

or

(b) 0.5% of original contract amount = \$42,575.13

Total this estimate = \$42,575.13

CON01 Main account Quantity:

\$ 42575.13

Remarks/Calculations:

B *I* U

Paynote 1 of 2 in series

[Delete](#)[Add Entry](#)

CON01 Main account Quantity: \$42,575.13

Total Pay Note Quantity: \$42,575.13

Total Production Days:

30

Production Rate:

\$1,419.17/Day

Measured By*:

Bob COE

FHWA Inspector:

Contractor Inspector:

Interim/Final*:

☒ Interim☐ Final

Supporting Documentation:

[Add Document](#)

Reference:

B *I* U

[Save & Close](#)
[Save](#)
[Delete](#)
[Cancel](#)
[Cancel & Close](#)
[Submit To PE](#)
[Print Preview](#)
[Print Preview \(Contractor Version\)](#)

Projects: [WA PRA FVNP 100\(1...](#) Constructions: [Progress Pay Periods](#) 1 INS: [Pay Note](#)

[Return To Proj](#)

Project Info Design **Construction** Account Team

Core Contract Status **Progress Payment** SubContractors Labor/Equipment Daily Reports Daily Diary Claims Contract Modifications

Grand Summary **Pay Notes** Pay Note Summaries Non CM Pay Items Period Account Progress Payment Tracking

Project Number: WA PRA FVNP 100(1) Project Name: FORT VANCOUVER NATIONAL PARK Contract Number: DTFH-C2014 States: WA

[Save & Close](#) [Save](#) [Delete](#) [Cancel](#) [Cancel & Close](#) [Submit To PE](#) [Print Preview](#) [Print Preview \(Contractor Version\)](#) * indicates a required field

FHWA Pay Note

Pay Note: 6 INS Pay Item Number: 15705-0100 Line Number: A 0100
 Period: 1 INS Pay Item Type: Normal pay item Contract Mod #:
 Description: SOIL EROSION CONTROL, SILT FENCE

Contract Quantities					Revised Quantities		Probables		
Acct	Quantity	Unit Price	Unit	Amount	Qty	Amount	Quantity	Amount	% Over / Under
	500.000	\$18.00	LNFT	\$9,000.00	500.000	\$9,000.00	500.000	\$9,000.00	0.00
CON01	500.000	\$18.00	LNFT	\$9,000.00	500.000	\$9,000.00	500.000	\$9,000.00	0.00

Pay Note Date*: 02-11-2014 [select](#) [clear](#)

Entries:

Pay Note Entry #1

Work Date Start Date*:

02-03-2014 [select](#) [clear](#)

Work Date End Date*:

02-10-2014 [select](#) [clear](#)

Location/Description*:

B I U

Stations Where Silt Fence Was Installed:

24+59 LT to 25+69 LT = 110'
 24+97 RT to 25+65 RT = 68'
 33+62 RT to 33+87 RT = 25'
 41+51 RT to 42+44 RT = 93'
 45+15 LT to 46+03 LT = 88'
 Total = 384'

FP-03 157.16(a): pay 50% upon install: (0.50)(384') = 192.00'

CON01 Main account Quantity:

192.0 LNFT

Remarks/Calculations:

B I U

Paynote 1 of 3 in series

[Delete](#)

[Add Entry](#)

CON01 Main account Quantity: 192.000

Total Pay Note Quantity: 192.000 LNFT

Total Production Days: 1

Production Rate: 192 LNFT/Day

Measured By*: Bob COE

FHWA Inspector:

Contractor Inspector:

Interim/Final*: ☒ Interim ☐ Final

Supporting Documentation: [Add Document](#)

Reference:

B I U

[Save & Close](#) [Save](#) [Delete](#) [Cancel](#) [Cancel & Close](#) [Submit To PE](#) [Print Preview](#) [Print Preview \(Contractor Version\)](#)

FHWA Pay Note

Pay Note:	11 INS	Pay Item Number:	15705-0100	Line Number:	A 0100
Period:	1 INS	Pay Item Type:	Normal pay item	Contract Mod #:	
Description:	SOIL EROSION CONTROL, SILT FENCE				

	Contract Quantities				Revised Quantities		Probables		
Acct	Quantity	Unit Price	Unit	Amount	Qty	Amount	Quantity	Amount	% Over / Under
	500.000	\$18.00	LNFT	\$9,000.00	500.000	\$9,000.00	500.000	\$9,000.00	0.00
CON01	500.000	\$18.00	LNFT	\$9,000.00	500.000	\$9,000.00	500.000	\$9,000.00	0.00

Pay Note Date*:

Entries:

Pay Note Entry #1

Work Date Start Date[※] :
03-05-2014 select clear

Work Date End Date^{**}:

Location/Description*:

New installation:
47+36 LT to 47+99 LT = 63'
49+20 RT to 49+73 RT = 53'
Total = 116'

FP-03 157.16(a): 50% of the unit bid price will be paid upon installation.
Current quantity claimed: 50% of 116' = 58'

and

and

FP-03 157.16(b): additional 25% of unit bid price will be paid following completion of 50% of contract amount
Total Bid: \$8,515.025

Work completed to date \$5,000,000 = 59%

therefore $(0.25)(116') = 29'$

AND from previous estimate:

Total this estimate = 58' + 29' + 96' = 183.00'

CON01 Main account Quantity:

183.0 LNFT

Remarks/Calculations:

Paynote 2 of 3 in series

Delete

Add Entry

CON01 Main account Quantity:	183.000
------------------------------	---------

Total Pay Note Quantity: 183.000 LNFT

Total Production Days: 1

Production Rate: 183 LNFT/Day

Measured By*: Bob COE

FHWA Inspector:

Contractor Inspector:

Interim/Final^{nc}: ☒ Interim ☐ Final

Supporting Documentation: [Add Document](#)

Reference:

Projects: [WA PRA FVNP 100\(1...](#) [Constructions: Progress Pay Periods](#) [1 INS: Pay Note](#)

[Return To Proj](#)

Project Info Design **Construction** Account Team

Core Contract Status **Progress Payment** SubContractors Labor/Equipment Daily Reports Daily Diary Claims Contract Modifications

Grand Summary **Pay Notes** Pay Note Summaries Non CM Pay Items Period Account Progress Payment Tracking

Project Number: WA PRA FVNP 100(1)

Project Name: FORT VANCOUVER NATIONAL PARK

Contract Number: DTFH-C2014

States: WA

[Save & Close](#) [Save](#) [Delete](#) [Cancel](#) [Cancel & Close](#) [Submit To PE](#) [Print Preview](#) [Print Preview \(Contractor Version\)](#)

* indicates a required field

FHWA Pay Note

Pay Note: 29 INS Pay Item Number: 15705-0100 Line Number: A 0100
 Period: 1 INS Pay Item Type: Normal pay item Contract Mod #:
 Description: SOIL EROSION CONTROL, SILT FENCE

Contract Quantities					Revised Quantities		Probables		
Acct	Quantity	Unit Price	Unit	Amount	Qty	Amount	Quantity	Amount	% Over / Under
	500.000	\$18.00	LNFT	\$9,000.00	500.000	\$9,000.00	500.000	\$9,000.00	0.00
CON01	500.000	\$18.00	LNFT	\$9,000.00	500.000	\$9,000.00	500.000	\$9,000.00	0.00

Pay Note Date*: 04-03-2014 [select](#) [clear](#)

Entries:

Pay Note Entry #1

Work Date Start Date*:

04-02-2014 [select](#) [clear](#)

Work Date End Date*:

04-02-2014 [select](#) [clear](#)

Location/Description*:

No new silt fence installed:
 All Silt fence completely removed from the project limits.
 FP-03 157.16(c): Pay remaining portion.
 Total installed: 384' + 116' = 500'
 Total paid to date = 192' + 183' = 375'
 Total remaining payment: 500' - 375' = 125.00'

CON01 Main account Quantity:

125.0 LNFT

Remarks/Calculations:

Paynote 3 of 3 in series

[Delete](#)

[Add Entry](#)

CON01 Main account Quantity: 125.000

Total Pay Note Quantity: 125.000 LNFT

Total Production Days: 1

Production Rate: 125 LNFT/Day

Measured By*: Bob COE

FHWA Inspector:

Contractor Inspector:

Interim/Final*: ☐ Interim ☒ Final

Supporting Documentation: [Add Document](#)

Reference:

[Save & Close](#) [Save](#) [Delete](#) [Cancel](#) [Cancel & Close](#) [Submit To PE](#) [Print Preview](#) [Print Preview \(Contractor Version\)](#)

Projects: WA PRA FVNP 100(1... Constructions: Progress Pay Periods 1 INS: Pay Note

Return To Pro

Project Info Design Construction Account Team

Core Contract Status Progress Payment SubContractors Labor/Equipment Daily Reports Daily Diary Claims Contract Modifications

Grand Summary Pay Notes Pay Note Summaries Non CM Pay Items Period Account Progress Payment Tracking

Project Number: WA PRA FVNP 100(1)

Project Name: FORT VANCOUVER NATIONAL PARK

Contract Number: DTFH-C2014

States: WA

Save & Close Save Delete Cancel Cancel & Close Submit To PE Print Preview Print Preview (Contractor Version)

* indicates a required field

FHWA Pay Note

Pay Note: 7 INS

Pay Item Number:

15801-0000

Line Number:

A 0120

Period: 1 INS

Pay Item Type:

Normal pay item

Contract Mod #:

Description: WATERING FOR DUST CONTROL

Contract Quantities					Revised Quantities		Probables		
Acct	Quantity	Unit Price	Unit	Amount	Qty	Amount	Quantity	Amount	% Over / Under
	100.00	\$55.00	MGAL	\$5,500.00	100.00	\$5,500.00	100.00	\$5,500.00	0.00
CON01	100.00	\$55.00	MGAL	\$5,500.00	100.00	\$5,500.00	100.00	\$5,500.00	0.00

Pay Note Date*:

06-24-2011

select

clear

Entries:

Pay Note Entry #1

Work Date Start Date*:

06-24-2011

select

clear

Work Date End Date*:

06-24-2011

select

clear

Location/Description*:

Watering for Dust Control:

STA 4+75 - STA 6+50 = 1 payload

STA 4+75 - STA 6+50 = 1 payload

Total Payloads = 2

1 payload = 3.2 MGAL

Total Water Placed = 2 x 3.19 MGAL = 6.38 MGAL

CON01 Main account Quantity:

6.4

MGAL

Remarks/Calculations:

*See attached supporting documentation and calculation:

FHWA 17-348 Form

Initial Weigh Scale Ticket for water truck capacity verification

Delete

Add Entry

CON01 Main account Quantity:

6.40

Total Pay Note Quantity: 6.40 MGAL

Total Production Days:

1

Production Rate:

6.40 MGAL/Day

Measured By*:

Bob COE

FHWA Inspector:

Contractor Inspector:

Interim/Final*:

Interim

Final

Supporting Documentation:

File Name:

15801 Watering for Dust Control support.pdf

Delete

Add Document

Reference:

Save & Close Save Delete Cancel Cancel & Close Submit To PE Print Preview Print Preview (Contractor Version)

SECTION 150

FORM FHWA 17-348 (12/2007)



U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION
Western Federal Lands Highway Division
610 E. 5th St. Vancouver, Washington 98661

FP-03 109.01

Date Stamp

Copy Stamp

(a) Project Name: FORT VANCOUVER NATIONAL PARK
Project Number: WA PRA FVNP 100(1)
(b) Item Number: 15801
Item Description: Watering for dust control
(c) Date work performed: 6-24-2011

Daily Record Of Miscellaneous Items

(d), (f) & (g) Locations and Calculations*:

Truck Number 142

Time Of Load Placement	Start Station	Stop Station	For Payment	Total Water Placed
08:15	02+20	02+50	☐ Yes ☒ No	NA
09:30	02+50	03+00	☐ Yes ☒ No	NA
10:15	04+00	04+75	☐ Yes ☒ No	NA
11:30	04+75	06+50	☒ Yes ☐ No	3.19 Mgal
13:00	02+20	02+50	☐ Yes ☒ No	NA
14:30	02+50	03+00	☐ Yes ☒ No	NA
16:15	04+00	04+75	☐ Yes ☒ No	NA
17:30	04+75	06+50	☒ Yes ☐ No	3.19 Mgal
			☐ Yes ☐ No	
			☐ Yes ☐ No	
			☐ Yes ☐ No	
			☐ Yes ☐ No	
			☐ Yes ☐ No	
2 Loads @ 3.19 Mgal/load = 6.38 Mgal				

*Attach additional sheets if necessary.

(e) Measured Quantity: 6.4 Mgal

(h) Name of person measuring work: Fred Maynes

(i) ☒ Interim Measurement ☐ Final Measurement

See Appendix C for example tank volume calculations

I certify the above measurements and calculations are correct and the total quantity is subject to direct payment for the item identified.

John B. Contractor

(j) Contractor Representative

FHWA Use Only

Verified By:

Construction Inspector

Entered To Record

Approved:

Checked By:

FHWA Representative

Date:

Example initial Weigh Scale ticket to establish capacity:



Sold To: HTS CASH SALES

☐ Cash ☐ Check ☐ Charge ☐ COD ☐ C.C.

Job: 43190

Driver _____ Truck #RAJ1

Material	Net Tons	Price	Tax	Amount
25SCALE	13.31	0.00	0.00	0.00
Weigher Initials	Dorene Da	Haul Charge	0.00	

Received By _____ Total 0.00

Terms: Cash on or before 10th of month following purchase. Finance charges of 1.5% per month or the maximum rate otherwise permitted by law, whichever is the lesser, may be charged on all past due balances.

Central Oregon Division
64500 OB Riley RD
Bend, OR 97701

Mail Address:
PO Box 83
541-388-0445
541-388-8932 (fax)

4248310 Customer

7/13/2012 11:38:20AM		
250810	Lone Pine	
SCALE USAGE FEE		
	Pounds	Tons
Gross	48,160	24.08
Tare	21,540	10.77
Net	26,620	13.31
Order No:		
Loads Today: 1		
Qty. Today:		13.31
DELIVER INSTRUCTIONS:		

13.31 tons = 26,620 lbs / 8.3454 lb/gal
= 3.19 Mgal per truck load

Section 200

20101 Clearing and Grubbing_____	Page 16
20206 Selective Clearing and Grubbing, Tree Removal _____	Page 31
20303 Removal of Pavement, Asphalt _____	Page 33
20401 Excavation and Embankment, Roadway Excavation _____	Page 35
20402 Excavation and Embankment, Subexcavation _____	Page 45
20411 Select Borrow _____	Page 53
20701 Earthwork Geotextile _____	Page 56
21101 Roadway Obliteration _____	Page 58
25101 Placed Riprap _____	Page 60
25105 Keyed Riprap_____	Page 65
25125 Boulder _____	Page 67
25210 Rockery Wall _____	Page 69

Projects: WA PRA FVNP 100(1)... Constructions: Progress Pay Periods 1 INS: Pay Note [Return To Pro](#)

Project Info Design Construction Account Team

Core Contract Status Progress Payment SubContractors Labor/Equipment Daily Reports Daily Diary Claims Contract Modifications

Grand Summary Pay Notes Pay Note Summaries Non CM Pay Items Period Account Progress Payment Tracking

Project Number: WA PRA FVNP 100(1) Project Name: FORT VANCOUVER NATIONAL PARK Contract Number: DTFH-C2014 States: WA

Save & Close Save Delete Cancel Cancel & Close Submit To PE Print Preview Print Preview (Contractor Version) * indicates a required field

FHWA Pay Note

Pay Note: 04 INS Pay Item Number: 20101-0000 Line Number: A 0140
 Period: 1 INS Pay Item Type: Normal pay item Contract Mod #:
 Description: CLEARING AND GRUBBING

Contract Quantities					Revised Quantities		Probables		
Acct	Quantity	Unit Price	Unit	Amount	Qty	Amount	Quantity	Amount	% Over / Under
	5.50	\$7,900.00	ACRE	\$43,450.00	5.50	\$43,450.00	5.50	\$43,450.00	0.00
CON01	5.50	\$7,900.00	ACRE	\$43,450.00	5.50	\$43,450.00	5.50	\$43,450.00	0.00

Pay Note Date*: 02-12-2015

Entries:

Pay Note Entry #1

Work Date Start Date*: 02-19-2014

Work Date End Date*: 02-18-2014

Location/Description*:
 13+320 to 14+500: 28,626 m2 per FHWA clearing report = 7.0741 acre
 Be sure to adjust designed clearing distances and areas to reflect actual areas of work performed

CON01 Main account Quantity: 7.074 ACRE

Remarks/Calculations:
 see attached documentation:
 (a) Contractor clearing report
 (b) FHWA clearing report
 conversion: 28,628 m2 = 0.000247105 acre/m2 = 7.0741 acre

CON01 Main account Quantity: 7.07

Total Pay Note Quantity: 7.07 ACRE

Total Production Days: 0

Production Rate: 0.00 ACRE/Day

Measured By*: Doug J Worley

FHWA Inspector:
 Contractor Inspector:
 Interim/Final*: ☒ Interim ☐ Final

Supporting Documentation: File Name: 20101_Clearing_and_Grubbing_Example_1_support.pdf

Reference:

Save & Close Save Delete Cancel Cancel & Close Submit To PE Print Preview Print Preview (Contractor Version)

Clearing Report

Project Name: Sunriver to Mt. Bachelor

Project Number: OR PFH 244-1(1)

Item No. **20101-0000 Clearing & Grubbing**

Measurements by: John Smith 7/06/2013

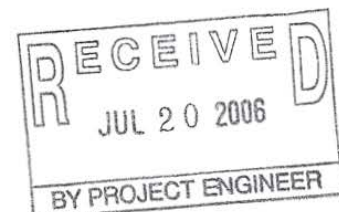
Calculations by: Fred Maynes 7/08/2013



Stations 13+320 to 18+780

Station	Sq. Meters	Station	Sq. Meters	Station	Sq. Meters
13 320		17 580		18 440	
13 340	458	17 600	484	18 460	533
13 360	462	17 620	442	18 480	541
13 380	461	17 640	399	18 500	554
13 400	460	17 660	380	18 520	567
13 420	458	17 680	360	18 540	537
13 440	454	17 700	354	18 560	519
13 460	457	17 720	379	18 580	550
13 480	467	17 740	414	18 600	615
13 500	474	17 760	434	18 620	625
13 520	486	17 780	438	18 640	576
13 540	497	17 800	386	18 660	557
13 560	507	17 820	405	18 680	502
13 580	527	17 840	512	18 700	448
13 600	530	17 860	521	18 720	425
13 620	526	17 880	444	18 740	431
13 640	532	17 900	390	18 760	400
13 660	537	17 920	425	18 780	375
13 680	527	17 940	506		
13 700	495	17 960	511		
13 720	473	17 980	471		
13 740	468	18 000	466	Total	8755
13 760	464	18 020	482		
13 780	448	18 040	510		
13 800	469	18 060	503		
13 820	412	18 080	468		
13 840	338	18 100	453		
13 860	385	18 120	439		
13 880	412				
13 900	403	Total	11976		
13 920	400				
13 940	398				
13 960	431				
13 980	459				
14 000	425				
14 020	397				
14 040	390				
14 060	391				
14 080	383				
14 100	387				
14 120	419				
14 140	472				
14 160	525				
14 180	540				
14 200	649				
14 220	643				
14 240	554				
14 260	563				
14 280	531				
14 300	526				
14 320	546				
14 340	577				
14 360	593				
14 380	598				
14 400	594				
14 420	615				
14 440	661				
14 460	563				
14 480	426				
14 500	385				
Total	28628				

These support pages should be checked and signed by FHWA

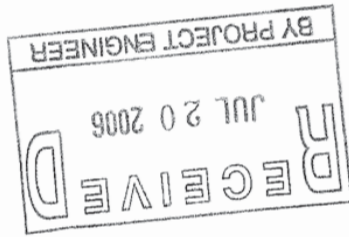


01/03/2006

SUNRIVER TO MT. BACHELOR
 PROJ OR PFH 244-1 (1)

Page# 42

MAINLINE
 CLEARING REPORT



STATION	CLEARING LT	DISTANCE RT	EXCEPTION WIDTH	AREA m2	SUBTOTAL m2	AREAS ES
13+240.00 R 1	9.273	9.967	0.000	391		
13+260.00 R 1	12.882	13.631	0.000	458		
13+280.00 R 1	11.567	9.745	0.000	479		
13+300.00 R 1	11.843	10.420	0.000	436		
13+320.00 R 1	12.073	10.653	0.000	450		
13+340.00 R 1	12.230	10.777	0.000	458		
13+360.00 R 1	12.291	10.815	0.000	462		
13+380.00 R 1	11.620	11.279	0.000	461		
13+400.00 R 1	11.489	11.514	0.000	460		
13+420.00 R 1	11.209	11.546	0.000	458		
13+440.00 R 1	10.907	11.651	0.000	454		
13+460.00 R 1	11.100	11.968	0.000	457		
13+480.00 R 1	11.532	12.081	0.000	467		
13+500.00 R 1	11.942	11.787	0.000	474	10912	1.0 (ACCUM m2 294813.0000)
13+520.00 R 1	12.076	12.753	0.000	486		
13+540.00 R 1	11.915	12.874	0.000	497		

START

5/3-1-24

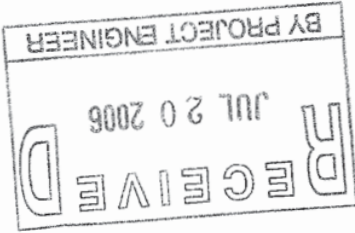
01/03/2006

SUNRIVER TO MT. BACHELOR
 PROJ OR PFH 244-1(1)
 MAINLINE

Page# 43

CLEARING REPORT

STATION	CLEARING LT	DISTANCE RT	EXCEPTION WIDTH	AREA m ²	SUBTOTAL m ²	AREAS ES
13+560.00 R 1	12.331	13.511	0.000	507		
13+580.00 R 1	12.878	13.917	0.000	527		
13+600.00 R 1	12.617	13.570	0.000	530		
13+620.00 R 1	12.985	13.412	0.000	526		
13+640.00 R 1	13.397	13.348	0.000	532		
13+660.00 R 1	13.903	12.981	0.000	537		
13+680.00 R 1	13.588	12.165	0.000	527		
13+700.00 R 1	13.215	10.499	0.000	495		
13+720.00 R 1	13.028	10.509	0.000	473		
13+740.00 R 1	12.922	10.308	0.000	468		
13+760.00 R 1	12.251	10.887	0.000	464		
13+780.00 R 1	11.498	10.109	0.000	448		
13+800.00 R 1	10.369	14.855	0.000	469		
13+820.00 R 1	7.089	8.822	0.000	412		
13+840.00 R 1	9.323	8.477	0.000	338		
13+860.00 R 1	12.549	8.137	0.000	385		



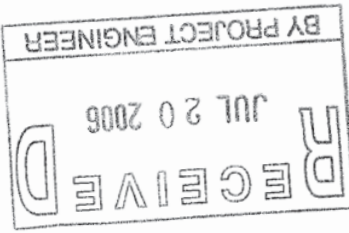
[Handwritten signature]

76,38 m²

01/03/2006

SUNRIVER TO MT. BACHELOR
 PROJ OR PFH 244-1(1)
 MAINLINE
 CLEARING REPORT

Page# 44



STATION	CLEARING LT	DISTANCE RT	EXCEPTION WIDTH	AREA m2	SUBTOTAL m2	AREAS ES
13+880.00 R 1	13.011	7.446	0.000	412		
13+900.00 R 1	12.833	6.951	0.000	403		
13+920.00 R 1	12.725	7.440	0.000	400		
13+940.00 R 1	12.846	6.744	0.000	398		
13+960.00 R 1	13.132	10.335	0.000	431		
13+980.00 R 1	12.369	10.020	0.000	459		
14+000.00 R 1	10.387	9.669	0.000	425		
14+020.00 R 1	9.719	9.881	0.000	397		
14+040.00 R 1	9.079	10.266	0.000	390		
14+060.00 R 1	9.148	10.510	0.000	391		
14+080.00 R 1	6.661	11.971	0.000	383		
14+100.00 R 1	6.313	13.732	0.000	387		
14+120.00 R 1	6.513	15.251	0.000	419		
14+140.00 R 1	9.359	16.072	0.000	472		
14+160.00 R 1	11.017	15.999	0.000	525		
14+180.00 R 1	10.501	16.418	0.000	540		
				11549	1.1549	(ACCUM m2 306362.0000)

01/03/2006

SUNRIVER TO MT. BACHELOR
 PROJ OR PFH 244-1(1)

Page# 45

MAINLINE
 CLEARING REPORT

STATION	CLEARING LT	DISTANCE RT	EXCEPTION WIDTH	AREA m2	SUBTOTAL m2	AREAS ES
14+200.00 R 1	13.855	24.066	0.000	649		
14+220.00 R 1	11.103	15.178	0.000	643		
14+240.00 R 1	12.138	16.921	0.000	554		
14+260.00 R 1	10.462	16.707	0.000	563		
14+280.00 R 1	10.456	15.385	0.000	531		
14+300.00 R 1	10.650	16.024	0.000	526		
14+320.00 R 1	11.113	16.776	0.000	546		
14+340.00 R 1	11.917	17.811	0.000	577		
14+360.00 R 1	12.710	16.770	0.000	593		
14+380.00 R 1	12.185	18.083	0.000	598		
14+400.00 R 1	11.802	17.318	0.000	594		
14+420.00 R 1	12.943	19.385	0.000	615		
14+440.00 R 1	20.437	13.276	0.000	661		
14+460.00 R 1	10.209	12.343	0.000	563		
14+480.00 R 1	10.430	9.610	0.000	426		
14+500.00 R 1	9.520	8.872	0.000	385		
				12928	1.2928	(ACCUM m2 319290.0000)



9624 m²

20101 Clearing and Grubbing -Partial Completion example

Projects: WA PRA FVNP 100(1... Constructions: Progress Pay Periods 1 INS: Pay Note Return To Proj

Project Info Design **Construction** Account Team

Core Contract Status **Progress Payment** SubContractors Labor/Equipment Daily Reports Daily Diary Claims Contract Modifications

Grand Summary **Pay Notes** Pay Note Summaries Non CM Pay Items Period Account Progress Payment Tracking

Project Number: WA PRA FVNP 100(1) **Project Name:** FORT VANCOUVER NATIONAL PARK **Contract Number:** DTFH-C2014 **States:** WA

Save & Close Save Delete Cancel Cancel & Close Submit To PE Print Preview Print Preview (Contractor Version) * indicates a required field

FHWA Pay Note

Pay Note: 8 INS **Pay Item Number:** 20101-0000 **Line Number:** A 0140
Period: 1 INS **Pay Item Type:** Normal pay item **Contract Mod #:**

Description: CLEARING AND GRUBBING

Contract Quantities					Revised Quantities		Probables		
Acct	Quantity	Unit Price	Unit	Amount	Qty	Amount	Quantity	Amount	% Over / Under
	5.50	\$7,900.00	ACRE	\$43,450.00	5.50	\$43,450.00	5.50	\$43,450.00	0.00
CON01	5.50	\$7,900.00	ACRE	\$43,450.00	5.50	\$43,450.00	5.50	\$43,450.00	0.00

Pay Note Date*: 04-02-2014

Entries:

Pay Note Entry #1

Work Date Start Date*: 03-30-2014

Work Date End Date*: 03-31-2014

Location/Description*:

Clearing and Grubbing:

375+00 to 376+50 = 7,876 SQFT
376+50 to 383+61 = 33,298 SQFT
383+61 to 389+00 = 25,048 SQFT
389+00 to 394+50 = 34,852 SQFT
394+50 to 398+00 = 19,164 SQFT
398+00 to 400+00 = 15,103 SQFT
Total = 135,341 SQFT

****Area grubbed, per Appendix A, 75% partial payment**
(135,341 SQFT)/(43,560 SQFT/ACRE) = 3.1070 acres
3.107 acres @ 75% complete = 2.3303 acres

CON01 Main account Quantity:
2.330 ACRE

Remarks/Calculations:
*See attached documentation/survey

CON01 Main account Quantity: 2.33

Total Pay Note Quantity: 2.33 ACRE

Total Production Days: 2

Production Rate: 1.17 ACRE/Day

Measured By*: Bob COE

FHWA Inspector:

Contractor Inspector:

Interim/Final*: ☒ Interim ☐ Final

Supporting Documentation: File Name: 20101_Clearing_ang_Grubbing_support.pdf

Reference:

Save & Close Save Delete Cancel Cancel & Close Submit To PE Print Preview Print Preview (Contractor Version)

from **APPENDIX 'A'**

**Guidelines for percentage payments for partially
complete work**

<u>Description</u>	<u>Allowance (Cumulative)</u>
Clearing and Grubbing	
• Felled and slashed	35
• Bucked and piled (slashings, brush and logs)	60
• Grubbed	75
• Burned or chipped and removed	98
• Substantially complete including cleanup	100
Excavation and Embankment	
• Pioneered	5
• Drilled	20
• Blasted	35
• Roughed out to grade	85
• Roadbed finished to grade	90
• Slopes seeded	98
• Substantially complete including cleanup	100
Structural Excavation	
• Excavation complete	85
• Backfill complete	98
• Substantially complete including cleanup	100
Aggregate Courses	
• Crushed and stockpiled onsite	50
• Placed on roadway	80
• Spread, compacted and tested	98
• Substantially complete including cleanup	100
Asphalt Pavements	
• Aggregates crushed and stockpiled onsite	50
• Placed, compacted and tested	98
• Substantially complete including cleanup	100

Project Name: FORT VANCOUVER NATIONAL PARK
 Project Number: WA PRA FVNP 100(1)
 Item No. **20101-0000 Clearing & Grubbing**
 Field Measurements by: Fred Smith 7/06/2013
 Calculations by: John B. Contractor

Sta	Sta	SF	
375+00.00	376+50.00	7,876.00	1 acre = 43560 square feet
376+50.00	383+61.10	33,298.00	
383+61.10	389+00.00	25,048.00	
389+00.00	394+50.00	34,852.00	
394+50.00	398+00.00	19,164.00	
398+00.00	400+00.00	15,103.00	
		135,341.00 Total	3.107 acre

08/15/2007

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WA PFH 208-1(1)
CAMP GRISDALE ROAD
Mainline
CLEARING REPORT

STATION	CLEARING LT	DISTANCE RT	EXCEPTION WIDTH	AREA SF	SUBTOTAL SF	AREAS ACRES
369+00.00 R 2	36.62	34.60	24.00	2443		
369+50.00 R 2	39.33	35.10	24.00	2442		
370+00.00 R 2	42.05	33.79	24.00	2558		
370+50.00 R 2	56.18	34.75	24.00	2970		
371+00.00 R 2	43.60	33.06	24.00	2990		
371+50.00 R 2	41.32	34.92	24.00	2623		
372+00.00 R 2	43.74	22.39	24.00	2360		
372+50.00 R 2	39.22	25.20	24.00	2064		
373+00.00 R 2	38.87	23.11	24.00	1960		
373+50.00 R 2	44.79	36.14	24.00	2373		
374+00.00 R 2	49.50	45.90	24.00	3209		
374+50.00 R 2	48.94	26.36	24.00	3068		
375+00.00 R 2	48.49	30.41	24.00	2655		
375+50.00 R 2	42.98	32.22	24.00	2653		
376+00.00 R 2	48.76	27.95	24.00	2599		
376+50.00 R 2	52.08	24.14	24.00	2624		

Σ 7876 SF

← put in MS Excel spreadsheet

08/15/2007

Page# 63

WA PFH 208-1(1)
CAMP GRISDALE ROAD
Mainline
CLEARING REPORT

STATION	CLEARING LT	DISTANCE RT	EXCEPTION WIDTH	AREA SF	SUBTOTAL SF	AREAS ACRES
377+00.00 R 2	46.56	23.45	24.00	2456		
377+50.00 R 2	44.93	22.38	24.00	2234		
378+00.00 R 2	39.81	22.33	24.00	2037		
378+50.00 R 2	35.30	32.18	24.00	2041		
379+00.00 R 2	24.06	54.41	24.00	2449		
379+50.00 R 2	30.87	50.61	24.00	2799		
380+00.00 R 2	31.04	42.22	24.00	2669		
380+50.00 R 2	30.87	41.81	24.00	2449		
381+00.00 R 2	29.48	40.39	24.00	2364		
381+50.00 R 2	29.77	41.71	24.00	2334		
382+00.00 R 2	28.54	36.00	24.00	2201		
382+50.00 R 2	27.33	26.09	24.00	1750		
383+00.00 R 2	36.05	30.55	24.00	1801		
383+10.60 R 2	41.81	48.02	24.00	575		
383+50.00 R 2	35.85	49.34	24.00	2503		
383+61.10 R 2	28.95	48.41	24.00	636		

Σ 33,298 SF

← put in MS Excel spreadsheet

08/15/2007

WA PFH 208-1(1)
CAMP GRIDDALE ROAD
Mainline
CLEARING REPORT

STATION	CLEARING LT	DISTANCE RT	EXCEPTION WIDTH	AREA SF	SUBTOTAL SF	AREAS ACRES
384+00.00 R 2	28.67	32.86	24.00	1768		
384+50.00 R 2	32.86	46.92	24.00	2333		
384+61.10 R 2	28.55	29.00	24.00	496		
385+00.00 R 2	27.07	29.00	24.00	1277		
385+20.00 R 2	28.70	29.00	24.00	658		
385+47.01 R 2	31.89	29.00	24.00	954		
385+50.00 R 2	32.07	50.98	24.00	144		
385+80.39 R 2	33.82	28.89	24.00	1486		
386+00.00 R 2	35.50	40.57	24.00	891		
386+50.00 R 2	35.44	60.24	24.00	3094		
387+00.00 R 2	31.94	49.31	24.00	3224		
387+50.00 R 2	27.54	37.90	24.00	2468		
388+00.00 R 2	43.27	27.95	24.00	2217		
388+50.00 R 2	40.00	27.51	24.00	2269		
388+92.00 R 2	19.10	34.31	24.00	1532		
389+00.00 R 2	19.10	34.67	24.00	237		

Σ 25,048 SF

08/15/2007

WA PFH 208-1(1)
CAMP GRISDALE ROAD
Mainline
CLEARING REPORT

Page# 65

STATION	CLEARING LT	DISTANCE RT	EXCEPTION WIDTH	AREA SF	SUBTOTAL SF	AREAS ACRES
389+50.00 R 2	43.42	38.92	24.00	2203		
390+00.00 R 2	44.10	40.42	24.00	2972		
390+50.00 R 2	48.32	47.12	24.00	3300		
391+00.00 R 2	49.15	38.33	24.00	3374	141934	3.2584 (ACCUM SF 1956814.0000)
391+50.00 R 2	45.42	45.43	24.00	3259		
392+00.00 R 2	43.46	41.75	24.00	3202		
392+50.00 R 2	46.72	45.43	24.00	3235		
392+95.00 R 2	43.68	44.21	24.00	2971		
393+00.00 R 2	43.19	45.59	24.00	322		
393+50.00 R 2	42.31	56.21	24.00	3483		
393+55.00 R 2	42.00	56.95	24.00	374		
393+72.00 R 2	39.57	56.70	24.00	1252		
393+75.00 R 2	39.08	55.44	24.00	215		
393+87.50 R 2	39.66	51.10	24.00	859		
394+00.00 R 2	37.19	46.35	24.00	790		
394+50.00 R 2	40.05	46.02	24.00	3041		

2734852 SF

08/15/2007

Page# 66

WA PFH 208-1(1)
CAMP GRIDDALE ROAD
Mainline
CLEARING REPORT

STATION	CLEARING LT	DISTANCE RT	EXCEPTION WIDTH	AREA SF	SUBTOTAL SF	AREAS ACRES
395+00.00 R 2	22.65	65.96	24.00	3168		
395+50.00 R 2	22.28	25.98	24.00	2222		
396+00.00 R 2	34.40	32.91	24.00	1690		
396+12.50 R 2	33.69	48.38	24.00	634		
396+25.00 R 2	33.76	52.02	24.00	750		
396+28.00 R 2	33.88	54.65	24.00	190		
396+41.00 R 2	32.91	57.29	24.00	850		
396+45.00 R 2	33.19	54.33	24.00	260		
396+50.00 R 2	33.54	54.01	24.00	318		
397+00.00 R 2	46.15	47.35	24.00	3327		
397+05.00 R 2	46.85	46.56	24.00	348		
397+41.00 R 2	31.00	45.60	24.00	2197		
397+50.00 R 2	31.00	45.82	24.00	475		
397+68.00 R 2	31.00	46.19	24.00	955		
397+95.00 R 2	31.00	47.08	24.00	1449		
398+00.00 R 2	54.78	47.27	24.00	331		

Σ 19,104 SF

Projects: WA PRA FVNP 100(1) ... Constructions: Progress Pay Periods 1 INS: Pay Note Return To Pro

Project Info Design Construction Account Team

Core Contract Status Progress Payment SubContractors Labor/Equipment Daily Reports Daily Diary Claims Contract Modifications

Grand Summary Pay Notes Pay Note Summaries Non CM Pay Items Period Account Progress Payment Tracking

Project Number: WA PRA FVNP 100(1) Project Name: FORT VANCOUVER NATIONAL PARK Contract Number: DTFH-C2014 States: WA

Save & Close Save Delete Cancel Cancel & Close Submit To PE Print Preview Print Preview (Contractor Version) * indicates a required field

FHWA Pay Note

Pay Note: 0 INS Pay Item Number: 20206-0000 Line Number: A 0160
 Period: 1 INS Pay Item Type: Normal pay item Contract Mod #:
 Description: SELECTIVE CLEARING AND GRUBBING (REMOVAL OF TRFF)

Contract Quantities					Revised Quantities		Probables		
ACCT	Quantity	Unit Price	Unit	Amount	Qty	Amount	Quantity	Amount	% Over / Under
	25	\$300.00	SQYD	\$7,500.00	25	\$7,500.00	25	\$7,500.00	0.00
CON01	25	\$300.00	SQYD	\$7,500.00	25	\$7,500.00	25	\$7,500.00	0.00

Pay Note Date*: 04-23-2014

Entries:

Pay Note Entry #1

Work Date Start Date*: 04-22-2014

Work Date End Date*: 04-22-2014

Location/Description*:

Removal of trees from STA 200+45 to 207+40

average tree cluster size 8/9 sq yd

250 tree clusters

250 x 8/9 = 222.222 sqyd

Be sure to confirm trees are outside of original clearing limits

CON01 Main account Quantity: 222.22 SQYD

Remarks/Calculations:

*See attached layout documentation

CON01 Main account Quantity: 222

Total Pay Note Quantity: 222 SQYD

Total Production Days: 1

Production Rate: 222 SQYD/Day

Measured By*: Bob COE

FHWA Inspector:

Contractor Inspector:

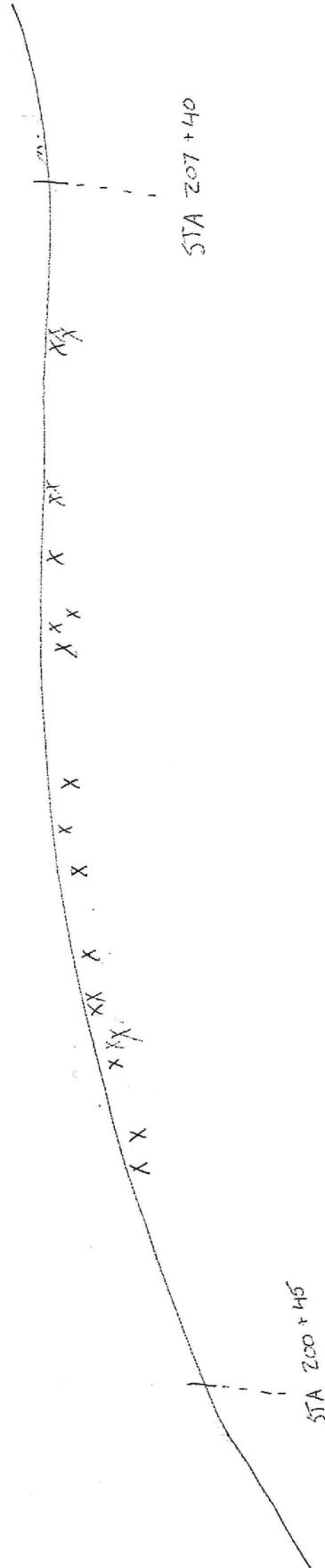
Interim/Final*: ☒ Interim ☐ Final

Supporting Documentation:
 File Name: 20206 Selective C and G Support.pdf

Reference:

Save & Close Save Delete Cancel Cancel & Close Submit To PE Print Preview Print Preview (Contractor Version)

Project Name: FORT VANCOUVER NATIONAL PARK
 Project Number: WA PRA FVNP 100(1)
 Item No. **20206-0000 Selective Clearing & Grubbing**
 Measurements and Calculations by: John Smith 7/06/2013



Area of
 X = tree cluster

250 clusters

avg cluster = 8/4 ac-yd

$$250 \times \frac{8}{4} = 222.22 \text{ ac-yd}$$

$$222.22 \times \left(\frac{536.84}{1.26 \text{ yd}} \right) = 1999.98 \text{ ft}$$

Projects: [WA PRA FVNP 100\(1...](#) Constructions: [Progress Pay Periods](#) 1 INS: [Pay Note](#) [Return To Proj](#)

Project Info Design Construction Account Team

Core Contract Status Progress Payment SubContractors Labor/Equipment Daily Reports Daily Diary Claims Contract Modifications

Grand Summary Pay Notes Pay Note Summaries Non CM Pay Items Period Account Progress Payment Tracking

Project Number: WA PRA FVNP 100(1) Project Name: FORT VANCOUVER NATIONAL PARK Contract Number: DTFH-C2014 States: WA

Save & Close Save Delete Cancel Cancel & Close Submit To PE Print Preview Print Preview (Contractor Version) * indicates a required field

FHWA Pay Note

Pay Note: 10 INS Pay Item Number: 20303-1600 Line Number: A 0180
 Period: 1 INS Pay Item Type: Normal pay item Contract Mod #:
 Description: REMOVAL OF PAVEMENT, ASPHALT

Contract Quantities					Revised Quantities		Probables		
Acct	Quantity	Unit Price	Unit	Amount	Qty	Amount	Quantity	Amount	% Over / Under
	800.000	\$10.00	SQYD	\$8,000.00	800.000	\$8,000.00	800.000	\$8,000.00	0.00
CON01	800.000	\$10.00	SQYD	\$8,000.00	800.000	\$8,000.00	800.000	\$8,000.00	0.00

Pay Note Date*: 09-30-2011

Entries:

Pay Note Entry #1

Work Date Start Date*: 09-26-2011

Work Date End Date*: 09-27-2011

Location/Description*:

B *I* U

Removal of Pavement -Asphalt
STA
1691+00 - 1695+00 RT 111.1
1705+00 - 1707+00 RT 55.5
1712+00 - 1713+00 LT 27.78
1715+00 - 1718+00 LT 83.33

Total Square Yard = 277.71 SQYD

CON01 Main account Quantity: 277.7 SQYD

Remarks/Calculations:

B *I* U

*See attached documentation/calculations

CON01 Main account Quantity: 277.700

Total Pay Note Quantity: 277.700 SQYD

Total Production Days: 2

Production Rate: 138.850 SQYD/Day

Measured By*: Bob COE

FHWA Inspector:

Contractor Inspector:

Interim/Final*: ☒ Interim ☐ Final

Supporting Documentation:
 File Name: 20303_removal_of_pavement -asphalt_support.pdf

Reference:

B *I* U

Save & Close Save Delete Cancel Cancel & Close Submit To PE Print Preview Print Preview (Contractor Version)

Project Name: FORT VANCOUVER NATIONAL PARK
 Project Number: WA PRA FVNP 100(1)
 Item No. **20303-1600 Removal of Pavement -Asphalt**
 Measurements by: John Smith 7/06/2013
 Calculations by: Fred Jones 7/07/2013

	Begin Sta	End Sta	Side	Length	Width	Area - SF	Area - SY
✓	1715+00	1718+00	LT	300	2.5	750	83.33
✓	1691+00	1695+00	RT	400	2.5	1,000	111.11
✓	1705+00	1707+00	RT	200	2.5	500	55.56
✓	1712+00	1713+00	LT	100	2.5	250	27.78

277.71
 SQYD *RF*

Projects: [WA PRA FVNP 100\(1...](#) Constructions: [Progress Pay Periods](#) 1 INS: [Pay Note](#) [Return To Proj](#)

Project Info Design **Construction** Account Team

Core Contract Status **Progress Payment** SubContractors Labor/Equipment Daily Reports Daily Diary Claims Contract Modifications

Grand Summary **Pay Notes** Pay Note Summaries Non CM Pay Items Period Account Progress Payment Tracking

Project Number: WA PRA FVNP 100(1) **Project Name:** FORT VANCOUVER NATIONAL PARK **Contract Number:** DTFH-C2014 **States:** WA

[Save & Close](#) [Save](#) [Delete](#) [Cancel](#) [Cancel & Close](#) [Submit To PE](#) [Print Preview](#) [Print Preview \(Contractor Version\)](#) * indicates a required field

FHWA Pay Note

Pay Note: 65 INS **Pay Item Number:** 20401-0000 **Line Number:** A 0200
Period: 1 INS **Pay Item Type:** Normal pay item **Contract Mod #:**
Description: ROADWAY EXCAVATION

Acct	Contract Quantities				Revised Quantities		Probables		% Over / Under
	Quantity	Unit Price	Unit	Amount	Qty	Amount	Quantity	Amount	
	40,500.000	\$23.00	CUYD	\$931,500.00	40,500.000	\$931,500.00	40,500.000	\$931,500.00	0.00
CON01	40,500.000	\$23.00	CUYD	\$931,500.00	40,500.000	\$931,500.00	40,500.000	\$931,500.00	0.00

Pay Note Date*: 02-12-2014 [select](#) [clear](#)

Entries:

Pay Note Entry #1

Work Date Start Date*: 02-03-2014 [select](#) [clear](#)

Work Date End Date*: 02-06-2015 [select](#) [clear](#)

Location/Description*:

105+366 LT to 105+381.5 LT : 43.20 CUYD

CON01 Main account Quantity: 43.2 CUYD

Remarks/Calculations:

see attached documents for sliver excavation:

- (a) differential leveling survey results
- (b) scaled cross section notes
- (c) average end area calculations
- (d) irregular polygon area calculations

[Delete](#)

[Add Entry](#)

CON01 Main account Quantity: 43.200

Total Pay Note Quantity: 43.200 CUYD

Total Production Days: 0

Production Rate: 0.000 CUYD/Day

Measured By*: Doug J Worley

FHWA Inspector:

Contractor Inspector:

Interim/Final*: ☒ Interim ☐ Final

Supporting Documentation:

File Name: 20401 Roadway Exc example 1 Support.pdf

[Delete](#)

[Add Document](#)

Reference:

[Save & Close](#) [Save](#) [Delete](#) [Cancel](#) [Cancel & Close](#) [Submit To PE](#) [Print Preview](#) [Print Preview \(Contractor Version\)](#)

Project

Beartooth Highway

Detail

STA 105+366 → 381.5 left, Silver Excavation

Sheet

1 of 6

9/5/08

Item

Project No. 20401

By T. Erickson
M. ClarkSHOT
STA 105+380
HubBSL
1.16 / HT

FS

Elev.
95.98 ✓97.14 ✓STA 105+366
Back1.55 ✓95.59 ✓STA 105+366
Crest1.77 ✓95.37 ✓STA 105+366
Toe4.70 ✓92.44 ✓STA 105+370
Back1.21 ✓95.93 ✓STA 105+370
Crest1.42 ✓95.72 ✓STA 105+370
Toe4.62 ✓92.52 ✓STA 105+375
Back1.10 ✓96.04 ✓STA 105+375
Crest1.10 ✓96.04 ✓STA 105+375
Toe4.53 ✓92.61 ✓STA 105+380
Back1.28 ✓95.86 ✓STA 105+380
Crest1.35 ✓95.79 ✓STA 105+380
Toe4.43 ✓92.71 ✓✓ John Steady
9/10/08

Project	Bear Tooth Highway
Detail	STA 105+266 → 381.5 Left, Sliver Excavation

 Sheet
 2
 of 6

9/5/08

 Item
 Project No. 20401

 By T. Erickson
 M. Clark
SIGHTBSTHTFSElev97.14 ✓
 STA 105+381.5
 Back.
1.61 ✓95.53 ✓
 STA 105+381.5
 Crest
1.94 ✓95.20 ✓
 STA 105+381.5
 Toe
4.35 ✓92.79 ✓
 ✓ John H. Steady
 9/10/08

Project

Beartooth Highway

Detail

STA 105+366 → 381.5 Left, Sliver Excavation

Sheet

3

of 6

9/5/08

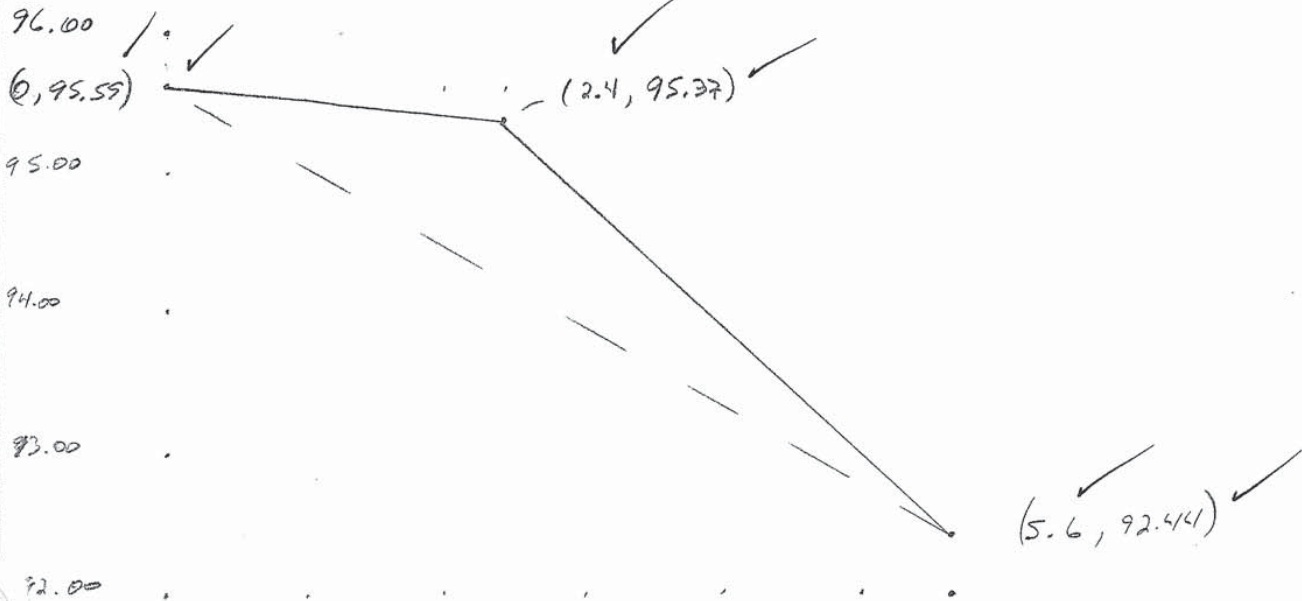
Item

Project No. 20401

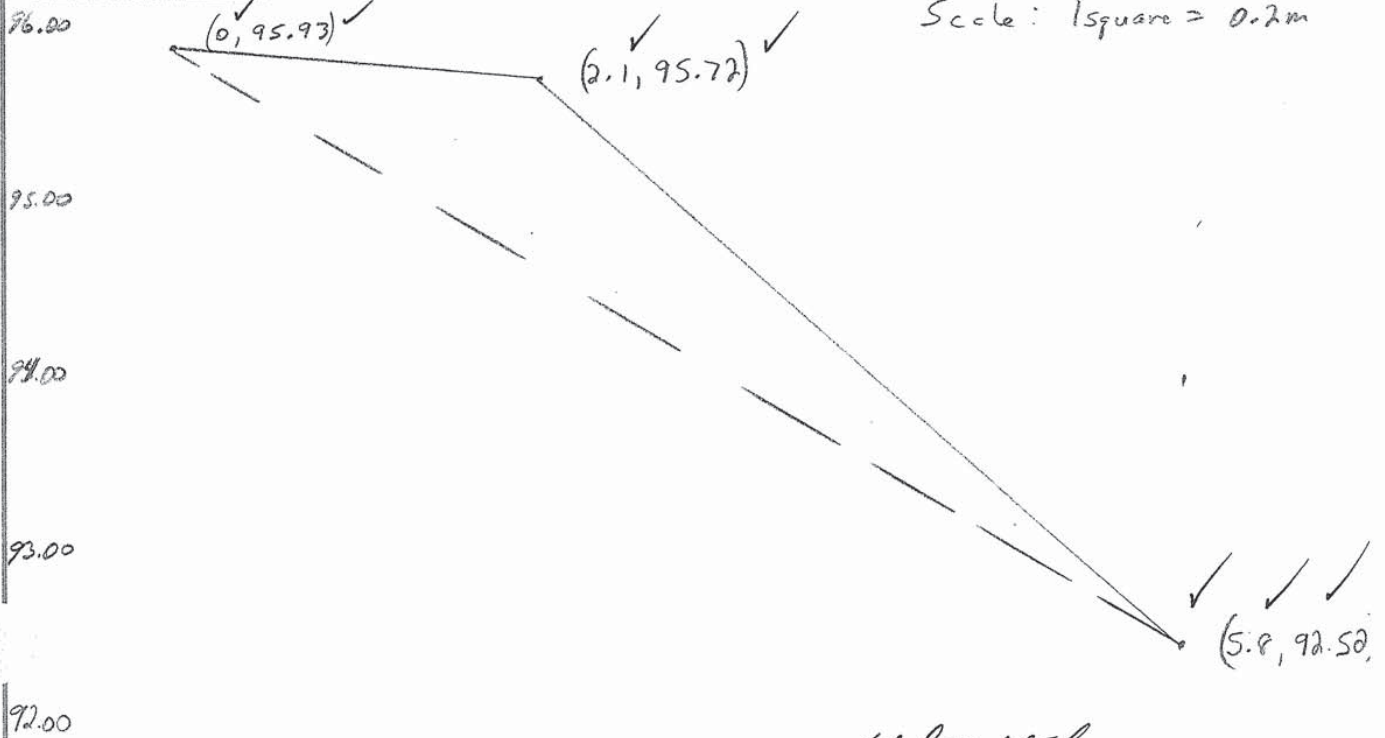
By T. Erickson

Scale: 1 square = 0.25m

STA 105+366



STA 105+370

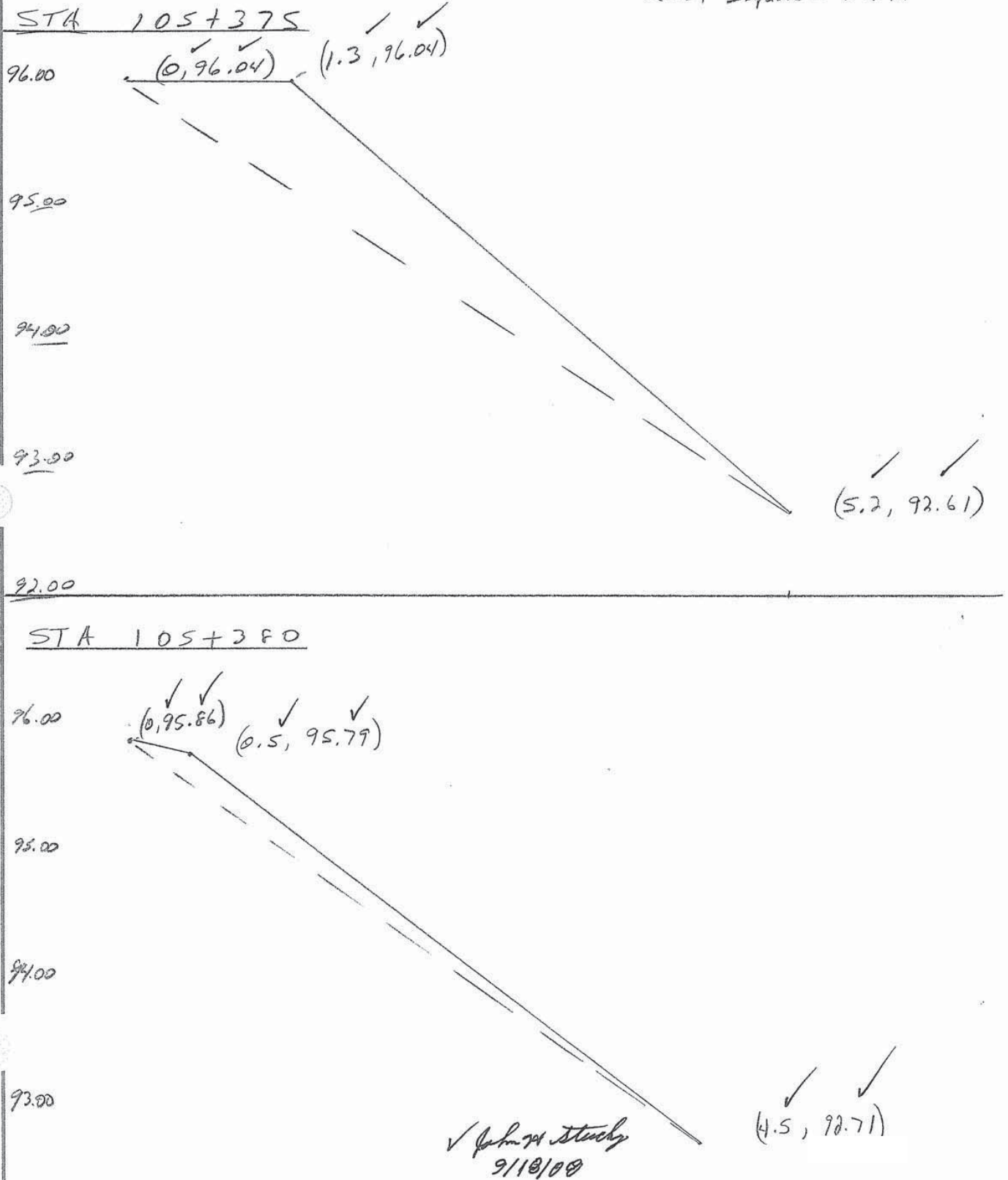


✓ John H. Steuby
9/18/08

Project	Bear Tooth Highway
Detail	STA 105+366 → 381.5 Left Sliver Excavation
Item	9/5/08
Project No.	20401
By	T. Erickson

Sheet	5
of	6

Scale: 1 Square = 0.2 m



Project

Beartooth Highway

Detail

STA 105+366 → 381.5 Left, Sliver Excavation

Sheet

5
of 6

9/5/08

From

Project No. 20401

By T. Erickson

STA 105+381.5

96.00

(0, 95.53)

95.00

(0.6, 95.20)

94.00

93.00

(4, 92.79)

92.00

✓ John H. Stucky
9/10/08

Project

Beartooth Highway

Detail

STA 105+366 to 381.5 left, Silver Excavation

Sheet

6
of 6

9/5/08

Eten
Project No. 20401

By T. Erickson

<u>STATION</u>	<u>DIST (m)</u>	<u>Area (m²)</u>	<u>Avg. Area m²</u>	<u>Volume m³</u>
105+366 ✓		3.16 ✓		
	4 ✓		3.07 ✓	12.28 ✓
105+370 ✓		2.97 ✓		
	5 ✓		2.60 ✓	13.00 ✓
105+375 ✓		2.23 ✓		
	5 ✓		1.43 ✓	7.15 ✓
105+380 ✓		0.63 ✓		
	1.5 ✓		0.40 ✓	0.60 ✓
105+381.5 ✓		0.16 ✓		

TOTAL VOLUME = 33.03 ✓ m³conversion: 33.03 m³ * 1.30795 CUYD/m³ = 43.20 CUYD

Total Volume = 43.20 CUYD

✓ John H. Stuehly
9/18/08

20401 Roadway Excavation -Partial Completion example

Projects: [WA PRA FVNP 100\(1...](#) Constructions: [Progress Pay Periods](#) 1 INS: [Pay Note](#) [Return To Pro](#)

Project Info Design **Construction** Account Team

Core Contract Status **Progress Payment** SubContractors Labor/Equipment Daily Reports Daily Diary Claims Contract Modifications

Grand Summary **Pay Notes** Pay Note Summaries Non CM Pay Items Period Account Progress Payment Tracking

Project Number: WA PRA FVNP 100(1) Project Name: FORT VANCOUVER NATIONAL PARK Contract Number: DTFH-C2014 States: WA

Save & Close Save Delete Cancel Cancel & Close Submit To PE Print Preview Print Preview (Contractor Version) * indicates a required field

FHWA Pay Note

Pay Note: 66 INS Pay Item Number: 20401-0000 Line Number: A 0200
 Period: 1 INS Pay Item Type: Normal pay item Contract Mod #:
 Description: ROADWAY EXCAVATION

Acct	Contract Quantities				Revised Quantities		Probables		% Over / Under
	Quantity	Unit Price	Unit	Amount	Qty	Amount	Quantity	Amount	
	40,500.000	\$23.00	CUYD	\$931,500.00	40,500.000	\$931,500.00	40,500.000	\$931,500.00	0.00
CON01	40,500.000	\$23.00	CUYD	\$931,500.00	40,500.000	\$931,500.00	40,500.000	\$931,500.00	0.00

Pay Note Date*: 02-12-2014

Entries:

Pay Note Entry #1

Work Date Start Date*: 02-03-2014

Work Date End Date*: 02-07-2014

Location/Description*: **B I U** ****Performed 85% per appendix A of the roadway exc from STA 27+857 to 33+500**
 Total excavation from STA 27+857 to 33+500 = 31,658.99 CUYD
 31,658.99 CUYD X 0.85 = 26910.09 CUYD

CON01 Main account Quantity: 26910.1 CUYD

Remarks/Calculations: **B I U** see attached documentation:
 (a) total mass spreadsheet
 (b) guideleins for for percentage of payments for partially complete work (Appendix A)

CON01 Main account Quantity: 26,910.100

Total Pay Note Quantity: 26,910.100 CUYD

Total Production Days: 0

Production Rate: 0.000 CUYD/Day

Measured By*: Doug J Worley

FHWA Inspector:

Contractor Inspector:

Interim/Final*: ☒ Interim ☐ Final

Supporting Documentation: File Name: 20401 Roadway Exc example 2 Support.pdf

Reference:

Save & Close Save Delete Cancel Cancel & Close Submit To PE Print Preview Print Preview (Contractor Version)

APPENDIX 'A'

Guidelines for percentage payments for partially complete work

<u>Description</u>	<u>Allowance (Cumulative)</u>
--------------------	-------------------------------

Clearing and Grubbing

• Felled and slashed	35
• Bucked and piled (slashings, brush and logs)	60
• Grubbed	75
• Burned or chipped and removed	98
• Substantially complete including cleanup	100

Excavation and Embankment

• Pioneered	5
• Drilled	20
• Blasted	35
• Roughed out to grade	85
• Roadbed finished to grade	90
• Slopes seeded	98
• Substantially complete including cleanup	100

Structural Excavation

• Excavation complete	85
• Backfill complete	98
• Substantially complete including cleanup	100

Aggregate Courses

• Crushed and stockpiled onsite	50
• Placed on roadway	80
• Spread, compacted and tested	98
• Substantially complete including cleanup	100

Asphalt Pavements

• Aggregates crushed and stockpiled onsite	50
• Placed, compacted and tested	98
• Substantially complete including cleanup	100

Checked By: John M. Smith
 Date: 11/13/89

Contractor Generated Notes

Grand Teton Park North Park Road Phase II

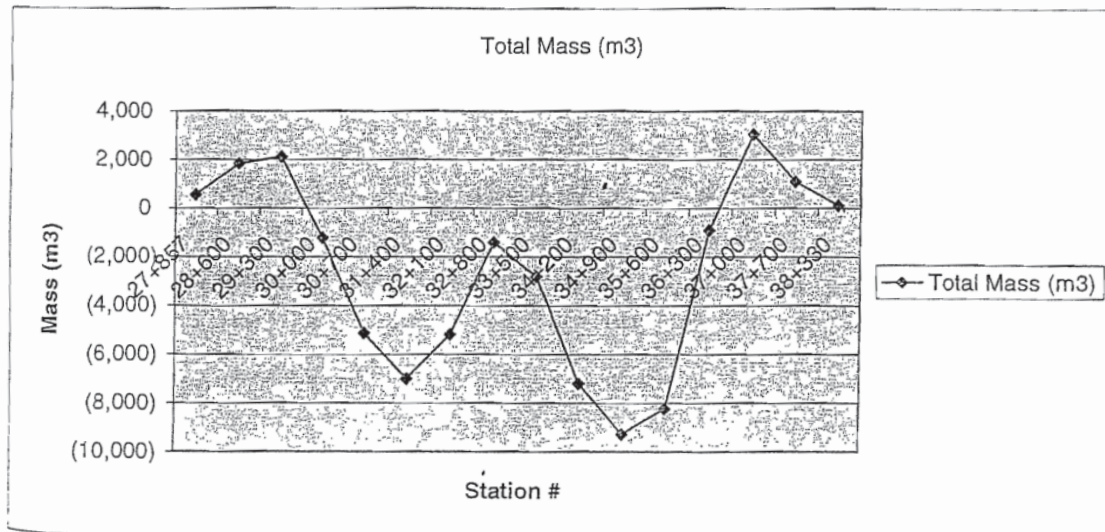
Station	Total Excavation (m3)	Top Soil Ex	Unusable Mat Ex	Embankment (m3)	Mass @ Station (m3)	Total Mass (m3)
27+857	1,186	252		388	546	546
28+600	2,364	250	250	572	1,292	1,838
29+300	1,879	216	287	1,108	268	2,106
30+000	1,006	287	181	3,860	(3,322)	(1,216)
30+700	1,095	448		4,559	(3,912)	(5,128)
31+400	1,418	493		2,805	(1,880)	(7,008)
32+100	2,799	580		409	1,810	(5,198)
32+800	5,529	203	1,340	188	3,798	(1,400)
33+500	6,929	762	6,167	1,405	(1,405)	(2,805)
34+200	1,627	617	1,010	4,397	(4,397)	(7,202)
34+900	6,530	613	5,917	2,078	(2,078)	(9,280)
35+600	9,432	639		11	1,050	(8,230)
36+300	8,140	464		45	7,331	(899)
37+000	5,047	524		46	3,946	3,047
37+700	1,813	521		48	(1,956)	1,091
38+330	303	189		1,077	(963)	128

Total: 24,205 m3

= 31,659 CUyd

Station	Total Mass (m3)
27+857	546
28+600	1,838
29+300	2,106
30+000	(1,216)
30+700	(5,128)
31+400	(7,008)
32+100	(5,198)
32+800	(1,400)
33+500	(2,805)
34+200	(7,202)
34+900	(9,280)
35+600	(8,230)
36+300	(899)
37+000	3,047
37+700	1,091
38+330	128

FHWA project staff should provide a note to reflect that calculations are accurate and reflect the original design or adjusted quantities



Checked By: *John W. L. [Signature]*
 Date: 11/13/22

20402 Subexcavation Example 1

Projects: [WA PRA FVNP 100\(1...](#) Constructions: [Progress Pay Periods](#) 1 INS: [Pay Note](#) [Return To Proj](#)

Project Info Design Construction Account Team

Core Contract Status Progress Payment SubContractors Labor/Equipment Daily Reports Daily Diary Claims Contract Modifications

Grand Summary Pay Notes Pay Note Summaries Non CM Pay Items Period Account Progress Payment Tracking

Project Number: WA PRA FVNP 100(1) Project Name: FORT VANCOUVER NATIONAL PARK Contract Number: DTFH-C2014 States: WA

Save & Close Save Delete Cancel Cancel & Close Submit To PE Print Preview Print Preview (Contractor Version) * indicates a required field

FHWA Pay Note

Pay Note: 19 INS Pay Item Number: 20402-0000 Line Number: A 0220
 Period: 1 INS Pay Item Type: Normal pay item Contract Mod #:
 Description: SUBEXCAVATION

Acct	Contract Quantities				Revised Quantities		Probables		% Over / Under
	Quantity	Unit Price	Unit	Amount	Qty	Amount	Quantity	Amount	
	4,000	\$15.00	CUYD	\$60,000.00	4,000	\$60,000.00	4,000	\$60,000.00	0.00
CON01	4,000	\$15.00	CUYD	\$60,000.00	4,000	\$60,000.00	4,000	\$60,000.00	0.00

Pay Note Date*: 09-12-2012 select clear

Entries:

Pay Note Entry #1

Work Date Start Date*: 09-07-2012 select clear

Work Date End Date*: 03-11-2014 select clear

Location/Description*: **B I U** Subexcavation Total = 1883.27 CUYD

CON01 Main account Quantity: 1883.3 CUYD

Remarks/Calculations: **B I U** *See attached documetation of measurement & calculations

Delete Add Entry

CON01 Main account Quantity: 1,883

Total Pay Note Quantity: 1,883 CUYD

Total Production Days: 5

Production Rate: 377 CUYD/Day

Measured By*: Bob COE

FHWA Inspector:

Contractor Inspector:

Interim/Final*: ☒ Interim ☐ Final

Supporting Documentation: File Name: 204_Subexcavation_support.pdf
 Delete Add Document

Reference:

Save & Close Save Delete Cancel Cancel & Close Submit To PE Print Preview Print Preview (Contractor Version)

SUBEXCAVATION Calculations

STA	WIDTH	AVE WIDTH	LENGTH (FT)	AREA (FT ²)	DEPTH SUB EX	VOLUME SUB EX
1675+30	25.76					
1675+50	28.58	27.17	20.00	543.40	3.58	1945.37
1676+00	28.58	28.58	50.00	1429.00	3.58	5115.82
1676+00	43.80	36.19				
1676+26.01	63.52	53.66	26.01	1395.70	3.58	4996.59
1676+50	61.52	62.52	23.99	1499.85	3.58	5369.48
1677+00	57.95	59.74	50.00	2986.75	3.58	10692.57
1677+13.51	55.58	56.77	13.51	766.90	3.58	2745.48
1677+50	52.44	54.01	36.49	1970.82	3.58	7055.55
1677+60	59.46	55.95	10.00	559.50	3.58	2003.01
1678+00	46.91	53.19	40.00	2127.40	3.58	7616.09
1678+20	45.50	46.21	20.00	924.10	3.58	3308.28
TOTALS			290.00	14203.42		50848.25

SUBEXCAVATION =

50848.25

27.00

1883.27 CUYD ✓

Project Name: FORT VANCOUVER NATIONAL PARK
 Project Number: WA PRA FVNP 100(1)
 Item No. **20402-0000 SUBEXCAVATION**
 Field Measurements by: Fred Smith 9/06/2012
 Calculations by: John B. Contractor 9/07/2012

Kelelotti 9/13/2012
RZ 9/13/12

20402 Subexcavation Example 2

Projects: [WA PRA FVNP 100\(1...](#) [Constructions: Progress Pay Periods](#) [1 INS: Pay Note](#) [Return To Proj](#)

Project Info Design **Construction** Account Team

Core Contract Status **Progress Payment** SubContractors Labor/Equipment Daily Reports Daily Diary Claims Contract Modifications

Grand Summary **Pay Notes** Pay Note Summaries Non CM Pay Items Period Account Progress Payment Tracking

Project Number: WA PRA FVNP 100(1) **Project Name:** FORT VANCOUVER NATIONAL PARK **Contract Number:** DTFH-C2014 **States:** WA

[Save & Close](#) [Save](#) [Delete](#) [Cancel](#) [Cancel & Close](#) [Submit To PE](#) [Print Preview](#) [Print Preview \(Contractor Version\)](#) * indicates a required field

FHWA Pay Note

Pay Note: 67 INS **Pay Item Number:** 20402-0000 **Line Number:** A 0220
Period: 1 INS **Pay Item Type:** Normal pay item **Contract Mod #:**
Description: SUBEXCAVATION

Contract Quantities					Revised Quantities		Probables		
Acct	Quantity	Unit Price	Unit	Amount	Qty	Amount	Quantity	Amount	% Over / Under
	4,000	\$15.00	CUYD	\$60,000.00	4,000	\$60,000.00	4,000	\$60,000.00	0.00
CON01	4,000	\$15.00	CUYD	\$60,000.00	4,000	\$60,000.00	4,000	\$60,000.00	0.00

Pay Note Date*: 02-12-2014 [select](#) [clear](#)

Entries:

Pay Note Entry #1

Work Date Start Date*: 02-03-2014 [select](#) [clear](#)

Work Date End Date*: 02-07-2014 [select](#) [clear](#)

Location/Description*:

101+440 to 101+680 = 3452.20 CUYD

CON01 Main account Quantity: 3452.2 CUYD

Remarks/Calculations:

see attached documentaion:

(a) average end area calculations
(b) cross-section end area reports
(c) irregular polygon area calculations

[Delete](#)

[Add Entry](#)

CON01 Main account Quantity: 3,452.2

Total Pay Note Quantity: 3,452.2 CUYD

Total Production Days: 0

Production Rate: 0 CUYD/Day

Measured By*: Doug J Worley

FHWA Inspector:

Contractor Inspector:

Interim/Final*: ☒ Interim ☐ Final

Supporting Documentation:

File Name: 204_Subexcavation_example_2_support.pdf

[Delete](#)

[Add Document](#)

Reference:

[Save & Close](#) [Save](#) [Delete](#) [Cancel](#) [Cancel & Close](#) [Submit To PE](#) [Print Preview](#) [Print Preview \(Contractor Version\)](#)



Project Name: <i>Type I Sub-Ex STA 101+440-101+680</i>		COMPUTATIONS		Project #: <i>20402</i>	
		Client Name:		Sheet <i>1</i> of <i>1</i>	
Prepared by: <i>T. Erickson</i>		Date: <i>6/29/09</i>	Checked by:		Date:

<u>STA</u>	<u>DIST</u>	<u>Area (m²)</u> ✓	<u>Avg Area (m²)</u>	<u>Volume (m³)</u>
<i>101+440</i>		<i>14.86</i>		
<i>101+460</i>	<i>20 m</i>	<i>10.72</i>	<i>12.79</i>	<i>255.8</i>
<i>101+480</i>	<i>20</i>	<i>10.31</i>	<i>10.52</i>	<i>210.4</i>
<i>101+500</i>	<i>20</i>	<i>11.22</i>	<i>10.77</i>	<i>215.4</i>
<i>101+520</i>	<i>20</i>	<i>10.96</i>	<i>11.09</i>	<i>221.8</i>
<i>101+540</i>	<i>20</i>	<i>9.78</i>	<i>10.37</i>	<i>207.4</i>
<i>+560</i>	<i>20</i>	<i>8.88</i>	<i>9.33</i>	<i>186.6</i>
<i>101+580</i>	<i>20</i>	<i>10.08</i>	<i>9.48</i>	<i>189.6</i>
<i>101+600</i>	<i>20</i>	<i>11.23</i>	<i>10.66</i>	<i>213.2</i>
<i>101+620</i>	<i>20</i>	<i>11.75</i>	<i>11.49</i>	<i>229.8</i>
<i>101+640</i>	<i>20</i>	<i>11.94</i>	<i>11.85</i>	<i>237</i>
<i>101+660</i>	<i>20</i>	<i>10.40</i>	<i>11.17</i>	<i>223.4</i>
<i>101+680</i>	<i>20</i>	<i>14.50</i>	<i>12.45</i>	<i>249</i>

RECEIVED
JUL 01 2009
BY PROJECT MANAGER

TOTAL = 2639.4 m³
 conversion: $2639.4 \text{ m}^3 \times 1.30795 \text{ CUYD/m}^3$
Total Volume = 3453.20 CUYD

MFT

CROSS-SECTION END AREAS REPORT

Project: MT PFH 59-1(2) NE Entrance Road

Description: Sub cut Type 1

Station: 1014+40.00

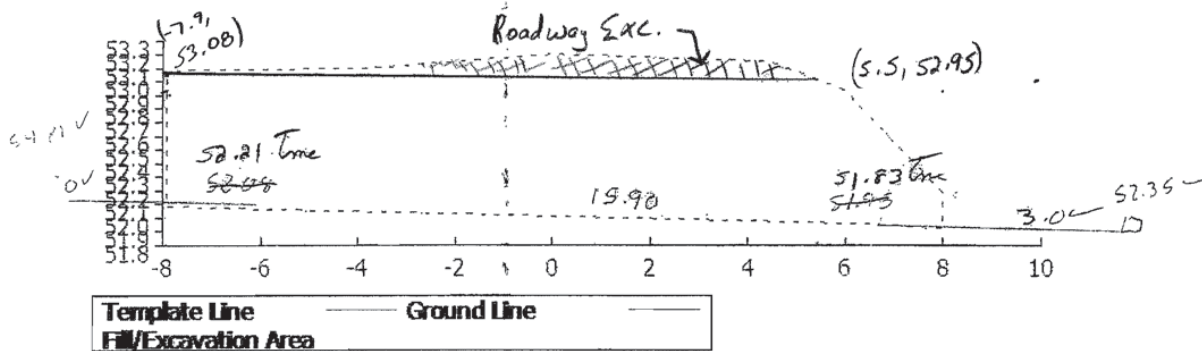
1014+40

(-)Left Elevation(m) (+)Right
Offset Distance(m)

TEMPLATE LINE 52.21 <i>52.21</i> 51.83 <i>51.83</i>				
53.080	52.080	52.010 ✓	51.950	51.920
-7.900	-7.900	0.000	6.690	8.000

GROUND LINE						
53.080	53.100	53.200	53.150	52.940	52.180	51.920
-7.900	-3.830	0.000	4.430	5.970	8.000	8.000

CATCHES AND ZERO-ZEROS	
53.080	
-7.900	

Cut Area (sq. m): ~~16.656~~ ✓ *14.86* Fill Area (sq. m): 0.000RECEIVED
DATE
Time

STA 101+440

Irregular Polygon Area Calculator - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Address http://www.analyzemath.com/Geometry_calculators/irregular_polygon_area.html

Google Search

How to use the calculator

Enter the number of points n that form the irregular polygon and the coordinates x and y of the vertices and press "enter". The vertices coordinates must be input in order: either clockwise or anticlockwise. The output is the area of the irregular polygon. In case you have a polygon with more than 10 vertices, divide it into smaller polygons find the area of each polygon and add them to obtain the total area.

SEARCH THIS SITE

Web www.analyzemath.com

Google Search

Enter the number of points n that form the irregular polygon and the coordinates x and y of the vertices and press "enter". The vertices coordinates must be input in order: either clockwise or anticlockwise. The output is the area of the irregular polygon. In case you have a polygon with more than 10 vertices, divide it into smaller polygons find the area of each polygon and add them to obtain the total area.

Enter

Area = 14.86395 ✓

More Online Geometry Calculators and Solvers.

Done Internet

CROSS-SECTION END AREAS REPORT

Project: MT PFH 59-1(2) NE Entrance Road

Description: Sub cut Type 1

Station: 1014+60.00

101460

 (-)Left Elevation(m) (+)Right
 Offset Distance(m)

TEMPLATE LINE <i>52.11 Tms</i> <i>52.23 Tms</i>				
53.170	51.950	52.160 ✓	52.430	53.000
-4.800	-4.800	0.000	6.240	6.240

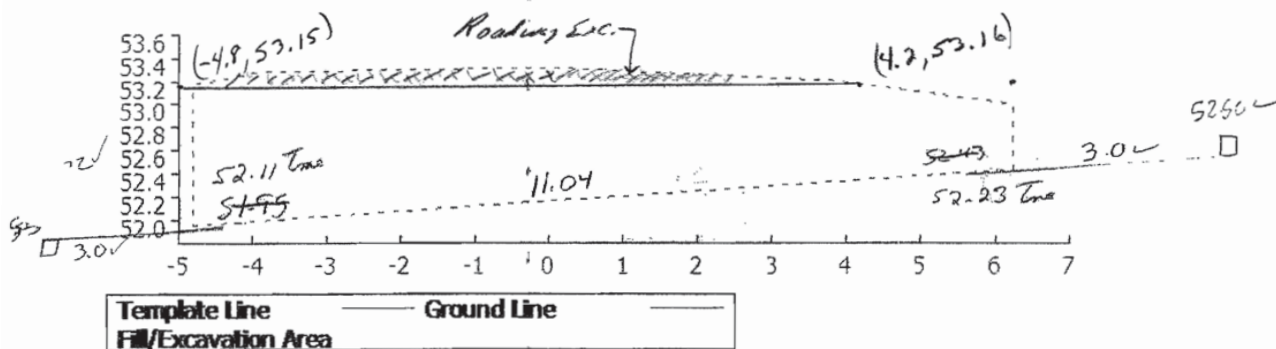
GROUND LINE				
53.170	53.280	53.310	53.200	53.000
-4.800	-3.880	0.000	3.830	6.240

CATCHES AND ZERO-ZEROS

 53.170 ✓
 -4.800 ✓
Cut Area (sq. m) : ~~11.504~~ ✓

10.72

Fill Area (sq. m) : 0.000



STA 101+460

Irregular Polygon Area Calculator - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Search Favorites

Address http://www.analyzemath.com/Geometry_calculators/irregular_polygon_area.html

Google Search Bookmarks Check AutoFill Sign in

How to use the calculator

Enter the number of points n that form the irregular polygon and the coordinates x and y of the vertices and press "enter". The vertices coordinates must be input in order: either clockwise or anticlockwise. The output is the area of the irregular polygon. In case you have a polygon with more than 10 vertices, divide it into smaller polygons find the area of each polygon and add them to obtain the total area.

SEARCH THIS SITE

☐ Web ☒ www.analyzemath.com

$n =$

x	y
-4.8	53.15
-4.8	52.11
6.24	52.23
6.24	53.00
4.2	53.16

Area = **10.7214**

More Online Geometry Calculators and Solvers.

Done Internet

WFLHD-434
(Rev 12/90)

STREET DELIVERY REPORT
SPREAD REPORT

PAGE NO. 1

PROJECT: MTPFH 59-1(2)

DATE 7/8/09

EM NO.: 20406 Seletborow

SOURCE NO.: _____

Pay Lot No.: _____

SHEET NO. 1 OF 1

[illegible]

CERTIFICATION

CERTIFY THAT THE ABOVE LOADS WERE PLACED AS SHOWN AND ARE THE SOLE BASIS FOR PAYMENT.

Contractor signature Chance Sealy

Received by: [Signature]

Date 7/08/09

wflhd434.wpf

Projects: [WA PRA FVNP 100\(1...](#) Constructions: [Progress Pay Periods](#) 1 INS: [Pay Note](#)

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Project Info Design **Construction** Account Team

Core Contract Status **Progress Payment** SubContractors Labor/Equipment Daily Reports Daily Diary Claims Contract Modifications

Grand Summary **Pay Notes** Pay Note Summaries Non CM Pay Items Period Account Progress Payment Tracking

Project Number: WA PRA FVNP 100(1)

Project Name: FORT VANCOUVER NATIONAL PARK

Contract Number: DTFH-C2014

States: WA

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* indicates a required field

FHWA Pay Note

Pay Note: 35 INS Pay Item Number: 20701-0300
 Period: 1 INS Pay Item Type: Normal pay item
 Description: EARTHWORK GEOTEXTILE, TYPE I-C

Line Number: A 0260
 Contract Mod #:

Acct	Contract Quantities				Revised Quantities		Probables		% Over / Under
	Quantity	Unit Price	Unit	Amount	Qty	Amount	Quantity	Amount	
	1,500	\$5.50	SQYD	\$8,250.00	1,500	\$8,250.00	1,500	\$8,250.00	0.00
CON01	1,500	\$5.50	SQYD	\$8,250.00	1,500	\$8,250.00	1,500	\$8,250.00	0.00

Pay Note Date*: 04-18-2014 [select](#) [clear](#)

Entries:

Pay Note Entry #1

Work Date Start Date*: 04-17-2014 [select](#) [clear](#)

Work Date End Date*: 04-17-2014 [select](#) [clear](#)

Location/Description*: **B I U** Crew installed Earthwork Geotextile, Type I-C from 35+10 to 35+90
 Total Length = 80ft
 Width of fabric = 20ft
 Depth of trench = 3ft x 2 sides = 6ft
 Total installed: (80ft x 20ft) + (80ft x 6ft) = 2080 sqft 2080 sqft x (1 sqyd / 9 sqft) = 231.11

CON01 Main account Quantity: 231.1 SQYD

Remarks/Calculations: **B I U** *See attached documentation/calculations

Do not pay for fabric overlap

[Delete](#)

[Add Entry](#)

CON01 Main account Quantity: 231.1

Total Pay Note Quantity: 231.1 SQYD

Total Production Days: 1

Production Rate: 231.1 SQYD/Day

Measured By*: Bob COE

FHWA Inspector:

Contractor Inspector:

Interim/Final*: ☒ Interim ☐ Final

Supporting Documentation: File Name: 207_Example.pdf

[Delete](#)

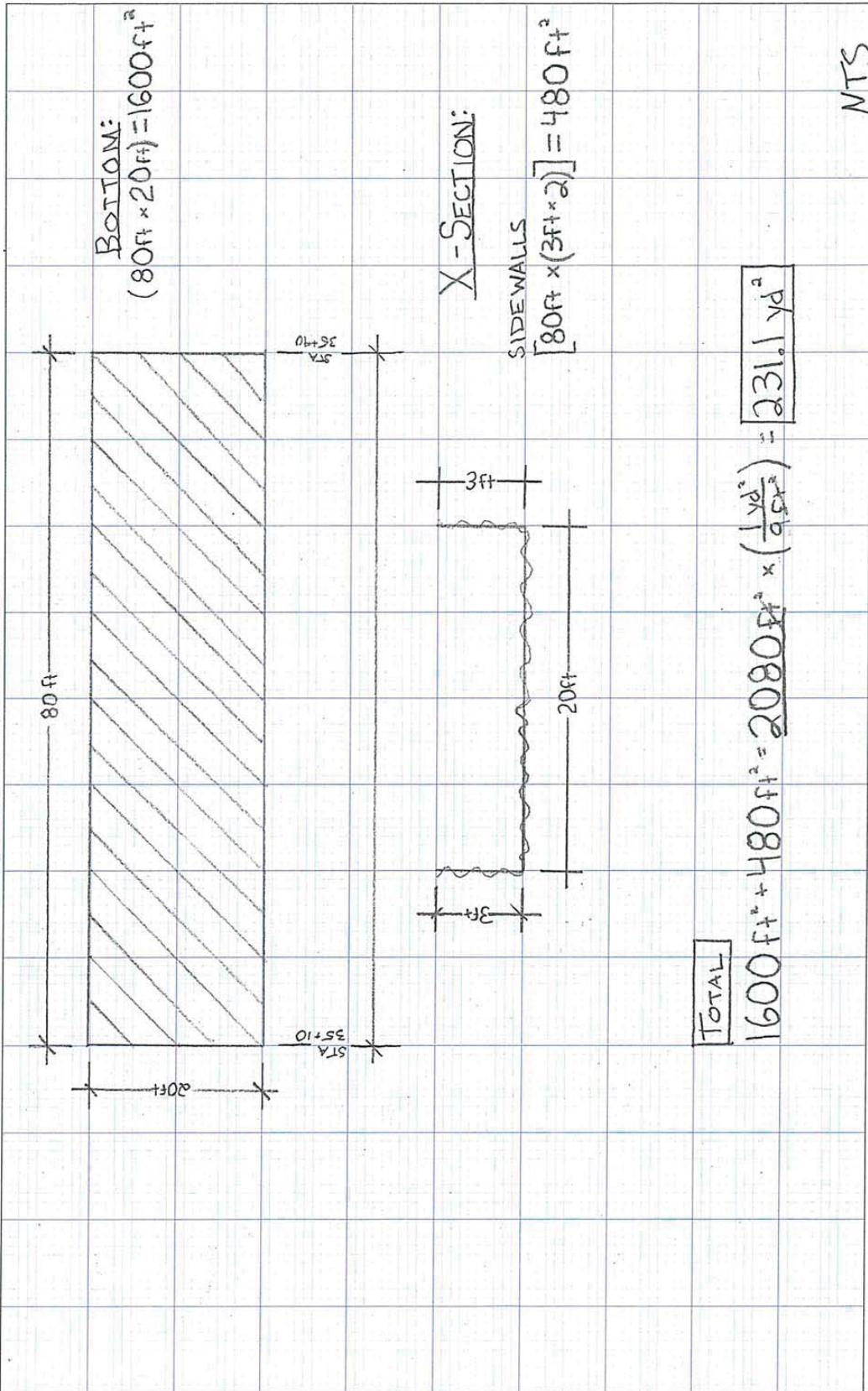
[Add Document](#)

Reference:

B I U

[Save & Close](#) [Save](#) [Delete](#) [Cancel](#) [Cancel & Close](#) [Submit To PE](#) [Print Preview](#) [Print Preview \(Contractor Version\)](#)

Project Name: FORT VANCOUVER NATIONAL PARK
 Project Number: WA PRA FVNP 100(1)
 Item No. 20701-0300 Earthwork Geotextile, Type 1-C
 Field Measurements and Calculations by: John Smith 7/06/2013



Projects: [WA PRA FVNP 100\(1...](#) Constructions: [Progress Pay Periods](#) 1 INS: [Pay Note](#)

[Return To Pro](#)

[Project Info](#) [Design](#) **[Construction](#)** [Account](#) [Team](#)
[Core](#) [Contract Status](#) **[Progress Payment](#)** [SubContractors](#) [Labor/Equipment](#) [Daily Reports](#) [Daily Diary](#) [Claims](#) [Contract Modifications](#)
[Grand Summary](#) **[Pay Notes](#)** [Pay Note Summaries](#) [Non CM Pay Items](#) [Period](#) [Account](#) [Progress Payment Tracking](#)

Project Number: WA PRA FVNP 100(1)

Project Name: FORT VANCOUVER NATIONAL PARK

Contract Number: DTFH-C2014

States: WA

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* indicates a required field

FHWA Pay Note

Pay Note: 34 INS Pay Item Number: 21101-1000 Line Number: A 0280
 Period: 1 INS Pay Item Type: Normal pay item Contract Mod #:
 Description: ROADWAY OBLITERATION, METHOD 1

Acct	Contract Quantities				Revised Quantities		Probables		
	Quantity	Unit Price	Unit	Amount	Qty	Amount	Quantity	Amount	% Over / Under
	2,000.000	\$4.00	SQYD	\$8,000.00	2,000.000	\$8,000.00	2,000.000	\$8,000.00	0.00
CON01	2,000.000	\$4.00	SQYD	\$8,000.00	2,000.000	\$8,000.00	2,000.000	\$8,000.00	0.00

Pay Note Date*: 06-20-2012 [select](#) [clear](#)

Entries:

Pay Note Entry #1

Work Date Start Date*: 06-12-2012 [select](#) [clear](#)

Work Date End Date*: 06-19-2012 [select](#) [clear](#)

Location/Description*: **B I U** Roadway Obliteration, Method 1
 1970+50 - 1974+00 = 406.90 SQYD
 1970+50 - 1974+00 Taper = 53.39 SQYD
 Total Square Yards = 460.29 SQYD

CON01 Main account Quantity: 460.3 SQYD

Info Only: ☐

Remarks/Calculations: **B I U** *See attached documentation/calculations

[Delete](#)

[Add Entry](#)

CON01 Main account Quantity: 460.300

Total Pay Note Quantity: 460.300 SQYD

Total Production Days: 2

Production Rate: 230.15 SQYD/Day

Measured By*: Bob COE

FHWA Inspector:

Contractor Inspector:

Interim/Final*: ☒ Interim ☐ Final

Entire Pay Note for Info Only: ☐

Supporting Documentation: File Name: 211 Road Oblit, Method 1, Example.pdf

[Delete](#)

[Add Document](#)

Reference:

B I U

Reviewed By: Jason VanDyke

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Project Name: FORT VANCOUVER NATIONAL PARK
 Project Number: WA PRA FVNP 100(1)
 Item No. **21101-100 Roadway Obliteration**
 Roadway Oblit Stations 1970+50 and 1974+00
 Field Measurements by: Fred Smith 6/20/2012
 Calculations by: John B. Contractor Jones 6/24/2012

Station	Width	Length	Horizontal Increment (feet)	Average Area (ft ²)
1970+50	0.00	0.00		
			50.00	87.50
1971+00	3.50	50.00		
			50.00	262.50
1971+50	7.00	100.00		
			50.00	437.50
1972+00	10.50	150.00		
			50.00	612.50
1972+50	14.00	200.00		
			50.00	725.00
1973+00	15.00	250.00		
			50.00	762.50
1973+50	15.50	300.00		
			50.00	775.00
1974+00	15.50	350.00		
	Totals:		350	3663 ft ²
	checks		350	406.9 yd ²
			amount removed on June 12 2012	

taper runs from the edge of the shoulder to the edge of existing pavement at a rate of 4:1

Length of b 62 feet
 Length of c 15.5 feet
 Area to be 480.5 ft²
 53.39 yd² amount removed approx June 19, 2012
 Total area 460.3 yd²

← ✓ TBR

Projects: [WA PRA FVNP 100\(1...](#) Constructions: [Progress Pay Periods](#) 1 INS: [Pay Note](#)

[Return To Proj](#)

Project Info Design **Construction** Account Team

Core Contract Status **Progress Payment** SubContractors Labor/Equipment Daily Reports Daily Diary Claims Contract Modifications

Grand Summary **Pay Notes** Pay Note Summaries Non CM Pay Items Period Account Progress Payment Tracking

Project Number: WA PRA FVNP 100(1)

Project Name: FORT VANCOUVER NATIONAL PARK

Contract Number: DTFH-C2014

States: WA

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* indicates a required field

FHWA Pay Note

Pay Note: 38 INS

Pay Item Number:

25101-3000

Line Number:

A 0300

Period: 1 INS

Pay Item Type:

Normal pay item

Contract Mod #:

Description: **PLACED RIPRAP, CLASS 3**

Acct	Contract Quantities				Revised Quantities		Probables		% Over / Under
	Quantity	Unit Price	Unit	Amount	Qty	Amount	Quantity	Amount	
	250	\$55.00	CUYD	\$13,750.00	250	\$13,750.00	250	\$13,750.00	0.00
CON01	250	\$55.00	CUYD	\$13,750.00	250	\$13,750.00	250	\$13,750.00	0.00

Pay Note Date*: 11-15-2011 [select](#) [clear](#)

Entries:

Pay Note Entry #1

Work Date Start Date*: 11-14-2011 [select](#) [clear](#)
 Work Date End Date*: 11-14-2011 [select](#) [clear](#)
 Location/Description*:

B I U

Placed Riprap, Class 3

19+32: 10yd long x 2.5yd wide x 0.5yd thick = 12.50 CUYD

20+14: 7yd long x 2yd wide x 0.3yd thick = 4.20 CUYD

Total = 16.70 CUYD

CON01 Main account Quantity: 16.7 CUYD

Remarks/Calculations:

B I U

*See attached placed riprap detail and volumes

[Delete](#)

[Add Entry](#)

CON01 Main account Quantity: 16.7

Total Pay Note Quantity: 16.7 CUYD

Total Production Days: 1

Production Rate: 16.7 CUYD/Day

Measured By*: Bob COE

FHWA Inspector:

Contractor Inspector:

Interim/Final*: ☒ Interim ☐ Final

Supporting Documentation: File Name: 25101 Placed Rip Rap Class 3 example1 support.pdf

[Delete](#)

[Add Document](#)

Reference:

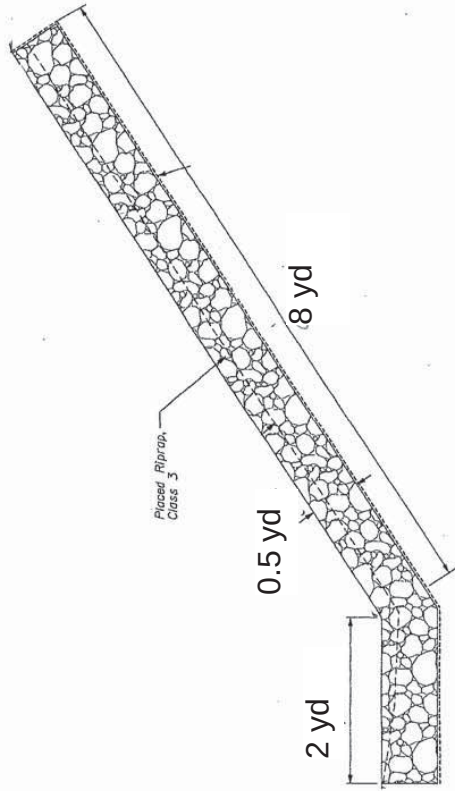
B I U

[Save & Close](#) [Save](#) [Delete](#) [Cancel](#) [Cancel & Close](#) [Submit To PE](#) [Print Preview](#) [Print Preview \(Contractor Version\)](#)

STATE	PROJECT
OR	PRJ 244-111

Project Name: FORT VANCOUVER NATIONAL PARK
 Project Number: WA PRA FVNP 100(1)
 Item No. **25101-0300 Placed Rip Rap, Class 3**
 Station 19+32 @ 20' left of center line
 Field Measurements and Calculations by: John Smith 11/03/2007

Sta 19+32
 12.5 CUYD



PLACED RIPRAP,
 CLASS 3

Width 2.5 yd

John Smith

PLACED RIPRAP, CLASS 3

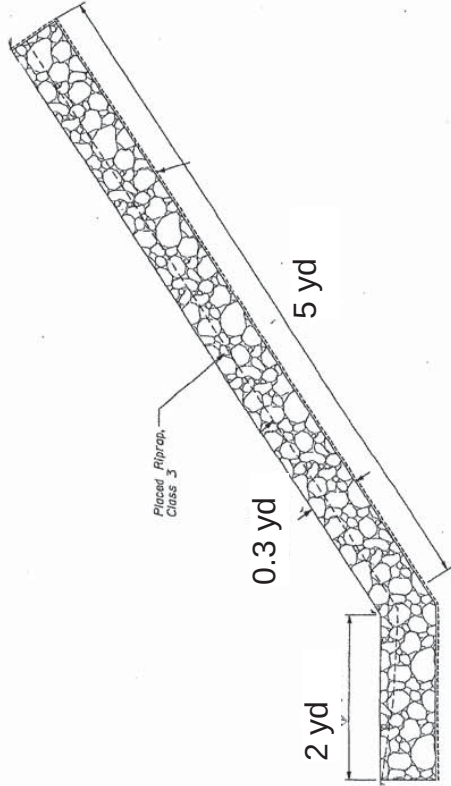


STATE	PROJECT
OR	PPN 244-111

Project Name: FORT VANCOUVER NATIONAL PARK
 Project Number: WA PRA FVNP 100(1)
 Item No. **25101-0300 Placed Rip Rap, Class 3**
 Station 20+14 @ 24' left of center line
 Field Measurements and Calculations by: John Smith 11/03/2007

Sta 20+14

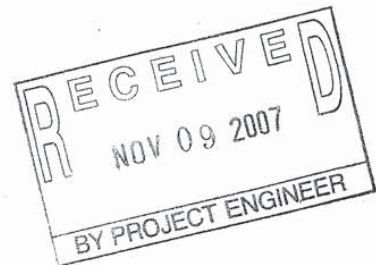
Volume = 4.2 CUYD



PLACED RIPRAP,
CLASS 3

Width 2 yd

PLACED RIPRAP, CLASS 3



12/2/2005 Stanley Ching 12/2/2005 Michael Soley 12/10/2005 4:18 PM Designed by: 12/10/2005 4:18 PM Michael Soley 12/10/2005 4:18 PM Checked by: 12/2/2005 Stanley Ching 12/2/2005 Stanley Ching

Projects: [WA PRA FVNP 100\(1...](#) Constructions: [Progress Pay Periods](#) 1 INS: [Pay Note](#)

[Return To Proj](#)

Project Info Design **Construction** Account Team

Core Contract Status **Progress Payment** SubContractors Labor/Equipment Daily Reports Daily Diary Claims Contract Modifications

Grand Summary **Pay Notes** Pay Note Summaries Non CM Pay Items Period Account Progress Payment Tracking

Project Number: WA PRA FVNP 100(1)

Project Name: FORT VANCOUVER NATIONAL PARK

Contract Number: DTFH-C2014

States: WA

[Save & Close](#)

[Save](#)

[Delete](#)

[Cancel](#)

[Cancel & Close](#)

[Submit To PE](#)

[Print Preview](#)

[Print Preview \(Contractor Version\)](#)

* indicates a required field

FHWA Pay Note

Pay Note: 68 INS

Pay Item Number:

25101-3000

Line Number:

A 0300

Period: 1 INS

Pay Item Type:

Normal pay item

Contract Mod #:

Description: PLACED RIPRAP, CLASS 3

Acct	Contract Quantities				Revised Quantities		Probables		% Over / Under
	Quantity	Unit Price	Unit	Amount	Qty	Amount	Quantity	Amount	
	250	\$55.00	CUYD	\$13,750.00	250	\$13,750.00	250	\$13,750.00	0.00
CON01	250	\$55.00	CUYD	\$13,750.00	250	\$13,750.00	250	\$13,750.00	0.00

Pay Note Date*: 02-12-2014

[select](#)

[clear](#)

Entries:

Pay Note Entry #1

Work Date Start Date*:

02-03-2014

[select](#)

[clear](#)

Work Date End Date*:

02-07-2014

[select](#)

[clear](#)

Location/Description*:

B I U 

Class 3 Rip Rap placement at 104+300 LT to 104+447 LT: 2503.20 CUYD

CON01 Main account Quantity:

2503.2

CUYD

Remarks/Calculations:

B I U 

see attached documnetation:

(a) average end area hand calculation sheet

[Delete](#)

[Add Entry](#)

CON01 Main account Quantity: 2,503.2

Total Pay Note Quantity: 2,503.2 CUYD

Total Production Days:

0

Production Rate:

0 CUYD/Day

Measured By*:

Doug J Worley

FHWA Inspector:

Contractor Inspector:

Interim/Final*:

☒ Interim ☐ Final

Supporting Documentation:

File Name:

25101 Placed Rip Rap Class 3 example 2 support.pdf

[Delete](#)

[Add Document](#)

Reference:

B I U 

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[Save](#)

[Delete](#)

[Cancel](#)

[Cancel & Close](#)

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Project Name: Fort Vancouver National Park
 Project Number: WA PRA FVNP 100(1)
 Item No. **25101-3000 Placed Rip Rap, Class 3**
 Placed: STA 104+300 to 104+447
 Field Measurements and calcs by: John Smith 8/30/2008

Sheet
 1
 of 1

STA	DIST (yd)	SLOPE LENGTH (yd)	Average SLOPE LENGTH (yd)	DEPTH (yd)	Volume (CUYD)
104+300		6.6 m -			
	10 ✓		12 ✓	1 ✓	120 ✓
104+310		17.4 m -			
	10 ✓		21 ✓	1 ✓	210 ✓
104+320		24.6 ✓			
	20 ✓		23.3 ✓	1 ✓	466 ✓
104+340		22 ✓			
	20 ✓		20.6 ✓	1 ✓	412 ✓
104+360		19.2 ✓			
	20 ✓		20.6 ✓	1 ✓	412 ✓
104+380		22 ✓			
	21 ✓		18.2 ✓	1 ✓	382.2 ✓
104+401		14.4 ✓			
	20 ✓		12.95 ✓	1 ✓	259 ✓
104+421 (Klusters Driveway)		11.5 ✓			
	20 ✓		10 ✓	1 ✓	200 ✓
104+441 (Klusters Driveway)		8.5 ✓			
	6 ✓		7 ✓	1 ✓	42 ✓
104+447 (Klusters Driveway)		5.5 ✓			
					2503.2 CUYD ✓

In order to check the As-Builts when the project is complete, these quantities should also have a reference to center line.

John W. Hickey
 9/2/08

Projects: [WA PRA FVNP 100\(1...](#) Constructions: [Progress Pay Periods](#) 1 INS: [Pay Note](#) [Return To Proj](#)

Project Info Design **Construction** Account Team

Core Contract Status **Progress Payment** SubContractors Labor/Equipment Daily Reports Daily Diary Claims Contract Modifications

Grand Summary **Pay Notes** Pay Note Summaries Non CM Pay Items Period Account Progress Payment Tracking

Project Number: WA PRA FVNP 100(1) **Project Name:** FORT VANCOUVER NATIONAL PARK **Contract Number:** DTFH-C2014 **States:** WA

[Save & Close](#) [Save](#) [Delete](#) [Cancel](#) [Cancel & Close](#) [Submit To PE](#) [Print Preview](#) [Print Preview \(Contractor Version\)](#) * indicates a required field

FHWA Pay Note

Pay Note: 37 INS **Pay Item Number:** 25105-4000 **Line Number:** A 0320
Period: 1 INS **Pay Item Type:** Normal pay item **Contract Mod #:**
Description: KEYED RIPRAP, CLASS 4

Acct	Contract Quantities				Revised Quantities		Probables		% Over / Under
	Quantity	Unit Price	Unit	Amount	Qty	Amount	Quantity	Amount	
	3,500	\$45.00	CUYD	\$157,500.00	3,500	\$157,500.00	3,500	\$157,500.00	0.00
CON01	3,500	\$45.00	CUYD	\$157,500.00	3,500	\$157,500.00	3,500	\$157,500.00	0.00

Pay Note Date*: 05-15-2012 [select](#) [clear](#)

Entries:

Pay Note Entry #1

Work Date Start Date*: 05-14-2012 [select](#) [clear](#)

Work Date End Date*: 05-14-2012 [select](#) [clear](#)

Location/Description*: STA 1+005 - End Section
 Area Volume = 215.00 CUYD
 STA 1+015
 Area Volume = 729.30 CUYD
 STA 1+030
 Area Volume = 789.30 CUYD
 STA 1+045
 Area Volume = 695.30 CUYD
 STA 1+060
 Area Volume = 208.50 CUYD
 STA 1+070 - End Section
 Total = 2637.40 CUYD

CON01 Main account Quantity: 2637.4 CUYD

Remarks/Calculations: *See attached cross-section + average end area calculation spreadsheet

[Delete](#)

[Add Entry](#)

CON01 Main account Quantity: 2,637.4

Total Pay Note Quantity: 2,637.4 CUYD

Total Production Days: 1

Production Rate: 2,637.4 CUYD/Day

Measured By*: Bob COE

FHWA Inspector:

Contractor Inspector:

Interim/Final*: ☒ Interim ☐ Final

Supporting Documentation: File Name: 25105_Keyed_Rip_Rap_Class_4_Support.pdf
[Delete](#)
[Add Document](#)

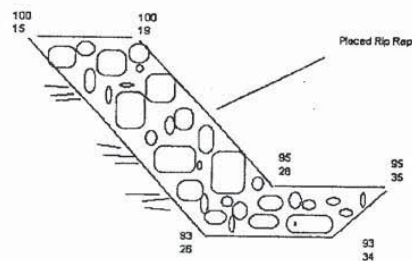
Reference:

[Save & Close](#) [Save](#) [Delete](#) [Cancel](#) [Cancel & Close](#) [Submit To PE](#) [Print Preview](#) [Print Preview \(Contractor Version\)](#)

Project Name: FORT VANCOUVER NATIONAL PARK
 Project Number: WA PRA FVNP 100(1)
 Item No. **25105-4000 Keyed Rip Rap, Class 4**
 Field Measurements and Calculations by: John Smith 5/01/2012

Criss-Cross average end area method using elevations and distance

Station										
1005	0.0 End section								0.0	
	0.0								Area	Volume
										215.0
1015	100.0	100.0	95.0	95.0	93.0	93.0	100.0	100.0		
	15.0	19.0	28.0	35.0	34.0	26.0	15.0	19.0		
	1300.0		1520.0	570.0	-837.0	-1767.0	-700.0		43.0	
									Area	
									Volume	729.3
1030	98.9	99.0	94.0	93.8	91.7	91.5	98.9	99.0		
	15.0	19.0	29.0	34.8	33.5	25.0	15.0	19.0		
	1386.0		1485.2	422.1	-898.7	-1692.8	-593.4		54.2	
									Area	
									Volume	789.3
1045	100.0	100.0	95.0	95.0	93.0	93.0	100.0	100.0		
	15.5	20.0	28.0	36.0	35.0	24.5	15.5	20.0		
	1250.0		1520.0	665.0	-1069.5	-1813.5	-450.0		51.0	
									Area	
									Volume	695.3
1060	101.3	101.7	96.2	96.2	94.5	94.5	101.3	101.7		
	15.0	19.0	28.0	35.0	34.0	26.0	15.0	19.0		
	1322.1		1539.2	577.2	-850.5	-1795.5	-709.1		41.7	
									Area	
									Volume	208.5
1070	0.0 End section								0.0	
	0.0								Area	
									Total	2637.4 CUYD



Projects: [WA PRA FVNP 100\(1...](#) Constructions: [Progress Pay Periods](#) 1 INS: [Pay Note](#) [Return To Proj](#)

Project Info Design **Construction** Account Team

Core Contract Status **Progress Payment** SubContractors Labor/Equipment Daily Reports Daily Diary Claims Contract Modifications

Grand Summary **Pay Notes** Pay Note Summaries Non CM Pay Items Period Account Progress Payment Tracking

Project Number: WA PRA FVNP 100(1) **Project Name:** FORT VANCOUVER NATIONAL PARK **Contract Number:** DTFH-C2014 **States:** WA

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FHWA Pay Note

Pay Note: 21 INS **Pay Item Number:** 25125-0000 **Line Number:** A 0340
Period: 1 INS **Pay Item Type:** Normal pay item **Contract Mod #:**

Description: BOULDER

Acct	Contract Quantities				Revised Quantities		Probables		% Over / Under
	Quantity	Unit Price	Unit	Amount	Qty	Amount	Quantity	Amount	
	50.00	\$100.00	EACH	\$5,000.00	50.00	\$5,000.00	50.00	\$5,000.00	0.00
CON01	50.00	\$100.00	EACH	\$5,000.00	50.00	\$5,000.00	50.00	\$5,000.00	0.00

Pay Note Date*: 07-11-2014 [select](#) [clear](#)

Entries:

Pay Note Entry #1

Work Date Start Date*: 07-09-2014 [select](#) [clear](#)

Work Date End Date*: 07-09-2014 [select](#) [clear](#)

Location/Description*:

Crew placed 4 boulders as directed by FHWA in Rockefeller Turnout at STA 32+975 RT.

CON01 Main account Quantity: 4.00 EACH

Remarks/Calculations:

[Delete](#)

[Add Entry](#)

CON01 Main account Quantity: 4.00

Total Pay Note Quantity: 4.00 EACH

Total Production Days: 1

Production Rate: 4 EACH/Day

Measured By*: Bob COE

FHWA Inspector:

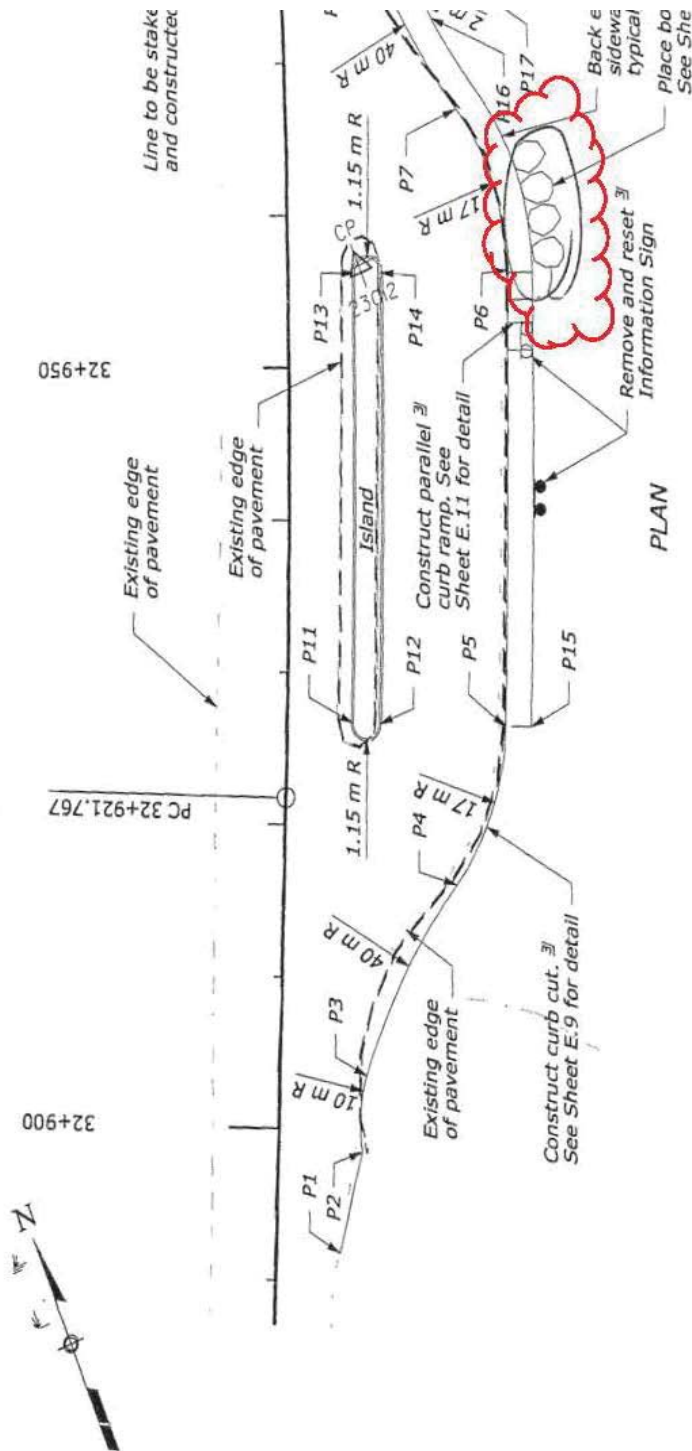
Contractor Inspector:

Interim/Final*: ☒ Interim ☐ Final

Supporting Documentation: File Name: 25125_boulder_support.pdf [Delete](#) [Add Document](#)

Reference: *See attached plan sheet

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LAYOUT INFORMATION

POINT	LOCATION	NOTE	POINT	LOCATION	NOTE	POINT	LOCATION	NOTE	POINT	LOC
P1	Sta. = 32+891.877 Offset = 4.900	Begin widening for turnout	P6	Sta. = 32+956.152 Offset = 16.800	Begin radius	P11	Sta. = 32+926.717 Offset = 4.900	Begin radius	P16	Sta. = 3. Offset = 3.
P2	Sta. = 32+898.568 Offset = 6.434	Begin radius	P7	Sta. = 32+966.649 Offset = 13.109	Begin radius	P12	Sta. = 32+926.718 Offset = 7.200	End radius	P17	Sta. = 3. Offset = 3.
P3	Sta. = 32+903.584 Offset = 6.652	Begin radius	P8	Sta. = 32+978.536 Offset = 6.729	Begin radius	P13	Sta. = 32+956.147 Offset = 4.900	Begin radius	P18	Sta. = 3. Offset = 3.
P4	Sta. = 32+916.325 Offset = 13.241	Begin radius	P9	Sta. = 32+985.027 Offset = 6.904	End radius	P14	Sta. = 32+956.146 Offset = 7.200	End radius	P19	Sta. = 3. Offset = 3.
P5	Sta. = 32+926.720 Offset = 16.800	End radius	P10	Sta. = 32+990.156 Offset = 4.900	End widening for turnout	P15	Sta. = 32+926.714 Offset = 18.750	Begin sidewalk	P20	Sta. = 3. Offset = 3.
									P21	Sta. = 3. Offset = 3.

Projects: [WA PRA FVNP 100\(1\)](#) Constructions: [Progress Pay Periods](#) 1 INS: [Pay Note](#) [Return To Project](#)

Project Info Design Construction Account Team

Core Contract Status **Progress Payment** SubContractors Labor/Equipment Daily Reports Daily Diary Claims Contract Modifications

Grand Summary **Pay Notes** Pay Note Summaries Non CM Pay Items Period Account Progress Payment Tracking

Project Number: WA PRA FVNP 100(1) **Project Name:** FORT VANCOUVER NATIONAL PARK **Contract Number:** DTFH-C2014 **States:** WA

[Save & Close](#) [Save](#) [Delete](#) [Cancel](#) [Cancel & Close](#) [Submit To PE](#) [Print Preview](#) [Print Preview \(Contractor Version\)](#) ** indicates a required field

FHWA Pay Note

Pay Note: 46 INS **Pay Item Number:** 25210-0000 **Line Number:** A 0360
Period: 1 INS **Pay Item Type:** Normal pay item **Contract Mod #:**

Description: ROCKERY

Acct	Contract Quantities				Revised Quantities		Probables		% Over / Under
	Quantity	Unit Price	Unit	Amount	Qty	Amount	Quantity	Amount	
	150.0	\$225.00	SQYD	\$33,750.00	150.0	\$33,750.00	150.0	\$33,750.00	0.00
CON01	150.0	\$225.00	SQYD	\$33,750.00	150.0	\$33,750.00	150.0	\$33,750.00	0.00

Pay Note Date*: 09-27-2013 [select](#) [clear](#)

Entries:

Pay Note Entry #1

Work Date Start Date*: 09-23-2013 [select](#) [clear](#)

Work Date End Date*: 09-26-2013 [select](#) [clear](#)

Location/Description*:

Rockery wall station 104+31 to station 104+61.1 (12' left offset from center line)= 134.270 m2 = 160.586 SQYD

CON01 Main account Quantity: 160.59 SQYD

Remarks/Calculations:

*See attached documentation/calculations:
(a) field cross section
(b) irregular polygon area calculator sheets

1 m2 = 1.19599 SQYD

[Delete](#)

[Add Entry](#)

CON01 Main account Quantity: 160.6

Total Pay Note Quantity: 160.6 SQYD

Total Production Days: 4

Production Rate: 40.15 SQYD/Day

Measured By*: Bob COE

FHWA Inspector:

Contractor Inspector:

Interim/Final*: ☒ Interim ☐ Final

Supporting Documentation: File Name: 25210_Rockery_Support.pdf [Delete](#) [Add Document](#)

Reference:

[Save & Close](#) [Save](#) [Delete](#) [Cancel](#) [Cancel & Close](#) [Submit To PE](#) [Print Preview](#) [Print Preview \(Contractor Version\)](#)



1015 S. Montana St.
P.O. Box 3588
Butte, MT 59701

Project

Beartooth Highway

Detail

Rockery Wall Square Footage

Sheet

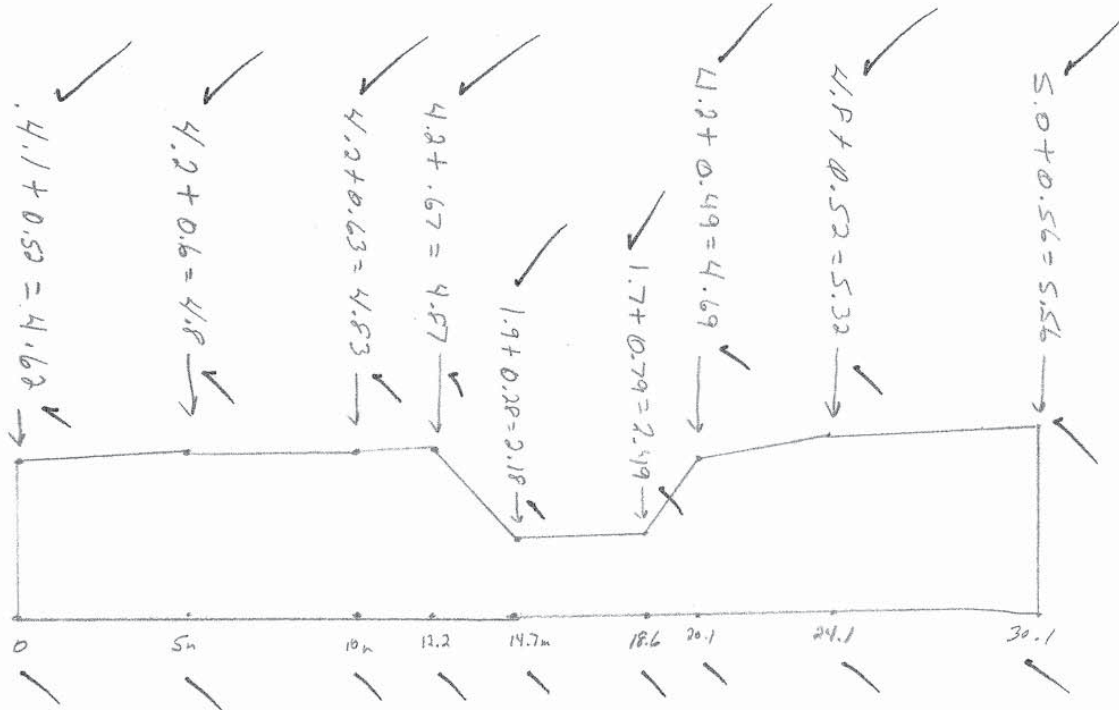
1

of

Date 7/31/08

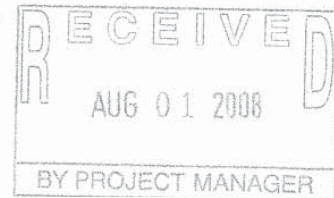
Project No. 26201

By T. Erickson



Area = 134.27 m²
Rounds to

Area = 134.3 m²



90/11/18
 by [signature]
 ✓

Rockery Wall
 West Area to 0 to 14.7 Meters

Irregular Polygon Area Calculator - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Search Favorites Go Google C Settings

Address: http://www.analyzemath.com/geometry_calculators/irregular_polygon_area.html

Web www.analyzemath.com Google Search

x	y	n =
0	0	10
5	0	
10	0	
12.2	0	
14.7	0	
14.7	2.18	
12.2	4.87	
10	4.83	
5	4.8	
0	4.62	

Enter

Area = 67.1075

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 Equations, Systems and Inequalities - Geometry Calculators - Math Software - Elementary Statistics -
 Author - e-mail

Updated: 25 November 2007 (A Dendane)

http://www.analyzemath.com/geometry.html

Internet

RECEIVED
 AUG 01 2008
 BY PROJECT MANAGER

30/11/08
 Ryan M. Stacey

Rockery Wall
 East Area to 14.7 to 30.1 Meters

Irregular Polygon Area Calculator - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Search Favorites Go Settings

http://www.analyzemath.com/geometry_calculators/irregular_polygon_area.html

Web www.analyzemath.com Google Search

n = 10

x	y
✓ 14.7	0
✓ 18.6	0
✓ 20.1	0
✓ 24.1	0
✓ 30.1	0
✓ 30.1	5.56
✓ 24.1	5.32
✓ 20.1	4.69
✓ 18.6	2.49
✓ 14.7	2.18

Enter

Area = 67.1515

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 Author - e-mail

Updated: 25 November 2007 (A Dendane)

Applet Irregular Polygons Areas started

Internet

Section 300

30101 Untreated Aggregate Base, Grading D _____ Page 73

30416 Cement _____ Page 78

31001 Recycled Aggregate Base _____ Page 82

Projects: [WA PRA FVNP 100\(1...](#) Constructions: [Progress Pay Periods](#) 1 INS: [Pay Note](#)

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Project Info Design **Construction** Account Team

Core Contract Status **Progress Payment** SubContractors Labor/Equipment Daily Reports Daily Diary Claims Contract Modifications

Grand Summary **Pay Notes** Pay Note Summaries Non CM Pay Items Period Account Progress Payment Tracking

Project Number: WA PRA FVNP 100(1)

Project Name: FORT VANCOUVER NATIONAL PARK

Contract Number: DTFH-C2014

States: WA

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* indicates a required field

FHWA Pay Note

Pay Note: 22 INS Pay Item Number:

30101-2000

Line Number:

A 0380

Period: 1 INS Pay Item Type:

Normal pay item, may need material incentive

Contract Mod #:

Description: AGGREGATE BASE GRADING D

	Contract Quantities			Revised Quantities		Probables		
Acct	Quantity	Unit Price	Unit	Amount	Qty	Amount	Quantity	Amount
	25,000.0	\$17.00	TON	\$425,000.00	25,000.0	\$425,000.00	25,000.0	\$425,000.00
CON01	25,000.0	\$17.00	TON	\$425,000.00	25,000.0	\$425,000.00	25,000.0	\$425,000.00
								% Over / Under
								0.00
								0.00

Pay Note Date*: 08-07-2013 [select](#) [clear](#)

Entries:

Pay Note Entry #1

Work Date Start Date*:

08-05-2013 [select](#) [clear](#)

Work Date End Date*:

08-06-2013 [select](#) [clear](#)

Location/Description*:

B I U

Station 1277+60 to 1281+40 placed : 368.550 tons
Lot 1

Do not scan individual Haul Tickets into EEBACS. Provide ORIGINAL Hardcopies of all Haul Tickets to Project Engineer.

CON01 Main account Quantity:

368.5 TON

Remarks/Calculations:

B I U

See attached documentation:
(a) Daily Mass Record WFLHD 422M
(b) Street Delivery Report, spread report WFLHD 434
(c) Tare Chart WFLHD 443
(d) ticket check MS Excel spreadsheet

[Delete](#)

[Add Entry](#)

CON01 Main account Quantity: 368.5

Total Pay Note Quantity: 368.5 TON

Total Production Days: 2

Production Rate: 184.3 TON/Day

Measured By*: Bob COE

FHWA Inspector:

Contractor Inspector:

Interim/Final*: ☒ Interim ☐ Final

Supporting Documentation:

File Name:
30101_Agg_base_D_support.pdf

[Delete](#)

[Add Document](#)

Reference:

B I U

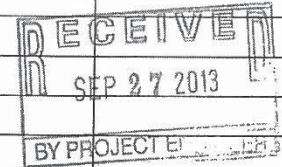
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WFLHD-443
(Rev 12/90)

TARE CHART

PAGE NO. 1PROJECT: AK PRA DENA 10(13)LOADS NOT APPEARING ON
STREET DELIVERY REPORT
WILL BE DELETED UNLESS
SATISFACTORILY EXPLAINED.EM NO.: 30101-2000 Agg Base Grading DDATE 9/23/2013SOURCE NO.: GNW - MP 247 Parks Hwy pitPay Lot No.: 1SHEET NO. 1 OF 1

TRUCK NO.	519	922	203	781	928
TARE 1	36,100	36,500	39,800	36,600	36,500
TARE 2	36,300	36,300	37,350	36,750	36,400
TARE 3					
TARE AVERAGE	36,200	36,400	38,575	36,675	36,450
TRUCK TALLY	//		//	//	
NUMBER LOADS	2	3	2	2	3
TARE WEIGHT	72400	109200	77150	73350	109350
TRUCK NO.	Blk #4				
TARE 1	37,300				
TARE 2	37,200				
TARE 3					
TARE AVERAGE	37,250				
TRUCK TALLY					
NUMBER LOADS	3				
TARE WEIGHT	111750				
TRUCK NO.					
TARE 1					
TARE 2					
TARE 3					
TARE AVERAGE					
TRUCK TALLY					
NUMBER LOADS					
TARE WEIGHT					

TOTAL TARE WEIGHT 553200 ✓I CERTIFY THIS INFORMATION TO BE
C O R R E C T
BY: Steve HysmithDATE: 9/27/2013COMPANY: Tutka, LLC

wflhd443.wpf

Denali Park Road -Sanctuary Area
AK PRA DENA 10(13)
30101-2000 Agg Base Grading D
Haul Ticket Check 9/23/2013
by: John Smith

Load	Quan.	Remark
	1	50900
	2	47000
	3	46100
	4	51300
	5	48400
	6	50400
	7	49900
	8	49500
	9	49300
	10	49900
	11	47850
	12	49150
	13	48900
	14	50400
	15	48100
TOTAL:	368.55	tons

Projects: [WA PRA FVNP 100\(1...](#) [Constructions: Progress Pay Periods](#) [1 INS: Pay Note](#)

[Return To Proj](#)

Project Info Design **Construction** Account Team

Core Contract Status **Progress Payment** SubContractors Labor/Equipment Daily Reports Daily Diary Claims Contract Modifications

Grand Summary **Pay Notes** Pay Note Summaries Non CM Pay Items Period Account Progress Payment Tracking

Project Number: WA PRA FVNP 100(1)

Project Name: FORT VANCOUVER NATIONAL PARK

Contract Number: DTFH-C2014

States: WA

[Save & Close](#) [Save](#) [Delete](#) [Cancel](#) [Cancel & Close](#) [Submit To PE](#) [Print Preview](#) [Print Preview \(Contractor Version\)](#)

* indicates a required field

FHWA Pay Note

Pay Note: 23 INS

Period: 1 INS

Description: CEMENT

Pay Item Number:

30416-0000

Pay Item Type:

Normal pay item

Line Number:

A 0400

Contract Mod #:

Contract Quantities					Revised Quantities		Probables		
Acct	Quantity	Unit Price	Unit	Amount	Qty	Amount	Quantity	Amount	% Over / Under
	100.0	\$250.00	TON	\$25,000.00	100.0	\$25,000.00	100.0	\$25,000.00	0.00
CON01	100.0	\$250.00	TON	\$25,000.00	100.0	\$25,000.00	100.0	\$25,000.00	0.00

Pay Note Date*: 09-27-2010 [select](#) [clear](#)

Entries:

Pay Note Entry #1

Work Date Start Date*: 09-26-2010 [select](#) [clear](#)

Work Date End Date*: 09-26-2010 [select](#) [clear](#)

Location/Description*: Station 180+68 to station 260+37

Load 1 = 30,104 lb
Load 2 = 71,350 lb
Load 3 = 71,600 lb
= 173,054 lbs = 86.527 tons

CON01 Main account Quantity: 86.53 TON

Remarks/Calculations: *See attached documentation/calculations

[Delete](#)

[Add Entry](#)

CON01 Main account Quantity: 86.5

Total Pay Note Quantity: 86.5 TON

Total Production Days: 1

Production Rate: 86.53 TON/Day

Measured By*: Bob COE

FHWA Inspector:

Contractor Inspector:

Interim/Final*: ☒ Interim ☐ Final

Supporting Documentation: File Name: 304_Example.pdf

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[Add Document](#)

Reference:

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COMBINED UNIFORM STRAIGHT BILL OF LADING AND FREIGHT BILL ORIGINAL • NOT NEGOTIABLE

Portland Bulk Dispatch 503-255-7902 Fax: 503-255-9245
 Portland Heavy Haul Dispatch 503-255-7904 Fax: 503-257-9028
 Portland Nationwide WATS 800-727-7900

Seattle 206-878-7980
 Seattle Fax: 206-878-0229
 Seattle Nationwide WATS 800-727-7980

RECEIVED, subject to the carrier's rules and rate tariff and other pricing agreements in effect on the date of the issue of this Bill of Lading, the property described above in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated above which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of, said property over all or any portion of said route to destination, and as to each party at any time interested in all or any of said property, that every consignment to be performed hereunder shall be subject to all the bill of lading terms and conditions in the governing classification on the date of shipment. The carrier hereby certifies that he is familiar with all the bill of lading terms and conditions in the governing carrier's rules, tariff and the said terms and conditions are hereby agreed to by the shipper and acceptor of the bill of lading.

SHIPPER 7-10-863	SU BH 01	DATE 9-26-10	TRUCK # 27-270	TRAILER # 474/474	P.O. #
CONSIGNEE AEC			CITY & STATE Kennewick, WA		SHIPPER B.L. # 2168229116
BILL TO NAME Ground VR Road			CITY & STATE Proline, ID		ROUTE CODE
BILL TO NAME			CITY & STATE		C.O.D. \$
MMOITY CODE	NO. SHIPPING UNITS	KIND OF PACKAGING, DESCRIPTION OF ARTICLES, SPECIAL MARKS AND EXCEPTIONS		NET WEIGHT (Subject to Correction)	RATE CHARGES
	17+	type II cement 15 TON		30140	

CARRIER'S LIABILITY FOR LOST OR DAMAGED FREIGHT IS LIMITED BY CARRIER'S RULES TARIFF WHICH IS INCORPORATED BY REFERENCE. SHIPPER SHALL FILE ALL CLAIMS WITHIN THE TIME LIMITS SET FORTH IN CARRIER'S RULES TARIFF. CLAIMS MUST BE FILED WITHIN 270 DAYS FROM THE DATE OF DELIVERY.

SHIPPER SIGNATURE: RECEIVED ABOVE FREIGHT IN GOOD ORDER.	LOADING DRIVER Ed Fieger		PILOT CARS ONE ☐ TWO ☐	
	DATE 9/26/10	TIME ARRIVED 0600	STARTED LOADING 0600	TIME LEFT 0630
CONSIGNEE SIGNATURE: M. Bruch	UNLOADING DRIVER Ed Fieger		PILOT CARS ONE ☐ TWO ☐	
	DATE 9/26/10	TIME ARRIVED 1000	STARTED UNLOADING 1015	TIME LEFT 1100

MISCELLANEOUS CHARGES

DO NOT DIVERT WITHOUT CONSENT OF ASH GROVE CEMENT CO

TRUCK LOADED PER DRIVER'S INSTRUCTIONS

RAIL-LOADED TO FULL VISIBLE CAPACITY

SPECIAL INSTRUCTIONS

Certified Mill Analysis D10-15

Permanent post office address of seller
 ASH GROVE CEMENT COMPANY
 PO BOX 240 PORTLAND, OR 97207-0240

CUSTOMER PICK UP ONLY. This acknowledges
 receipt and title to the material described herein,
 which is for use at the destination indicated above.

LOADED BY

BY: _____

RECEIVED FOR CONSIGNEE. Prior to signing delivery receipt, consignee shall verify condition of shipment. No claims for shortage of goods, loss or damage will be considered unless noted on the Bill of Lading at the time of delivery and supported by documentation acceptable to seller.

ACCEPTED FOR CARRIER:

BY: _____

BY: _____

ALL SALES SUBJECT TO THE TERMS AND CONDITIONS ON FRONT AND BACK SIDES.

CONSIGNEE RECORD

REV. 6-3-1



P.O. BOX 699
FAIRVIEW, OR 97024

COMBINED UNIFORM STRAIGHT BILL OF LADING AND FREIGHT BILL ORIGINAL • NOT NEGOTIABLE

Portland Bulk Dispatch 503-255-7902 Fax: 503-255-9245
Portland Heavy Haul Dispatch 503-255-7904 Fax: 503-257-9028
Portland Nationwide WATS 800-727-7900

Seattle 206-878-7980
Seattle Fax: 206-878-0229
Seattle Nationwide WATS 800-727-7980

RECEIVED, subject to the carrier's rules and rate tariff and other pricing agreements in effect on the date of the issue of this Bill of Lading, the property described above in apparent good order, except as to contents and condition of contents of packages (unknown), marked, consigned, and destined as indicated above which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of, said property over all or any portion of said route to destination, and as to each party at any time interested in all or any of said property, that to be performed hereunder shall be subject to all the bill of lading terms and condition in the governing classification on the date of shipment. The shipper hereby certifies that he is familiar with all the bill of lading terms and conditions in the governing carrier's rules, tariff and the said terms and conditions are hereby agreed to by the shipper and self and his assigns.

SHIPPER 258 ASH GROVE CEMENT COMPANY	CITY & STATE DURKEE OR	P.O. #
INSIGNEE 7829 GROUND UP ROAD CONSTRUCTION	CITY & STATE OROFINO ID	SHIPPER B.L. # 264764094
TO NAME SHIPOR ASH GROVE CEMENT COMPANY	CITY & STATE LAKE OSWEGO OR	ROUTE CODE 1
DATE 05/26/10	TRUCK # 27-151	TRAILER # 32-357D 35-358B
NO. SHIPPING UNITS 1.00	KIND OF PACKAGING, DESCRIPTION OF ARTICLES, SPECIAL MARKS AND EXCEPTIONS TYPE 1-2 CEMENT	NET WEIGHT (Subject to Correction) 71,350
		RATE
		CHARGES

CARRIER'S LIABILITY FOR LOST OR DAMAGED FREIGHT IS LIMITED BY CARRIER'S RULES TARIFF WHICH IS INCORPORATED BY REFERENCE. SHIPPER SHALL FILE ALL CLAIMS WITHIN THE TIME SET FORTH IN CARRIER'S RULES TARIFF. CLAIMS MUST BE FILED WITHIN 270 DAYS FROM THE DATE OF DELIVERY.

PER SIGNATURE:

SIGNEE SIGNATURE:
VED ABOVE FREIGHT
DO ORDER.

LOADING DRIVER BRYAN BEAUPRE	PILOT CARS ONE ☐ TWO ☐
DATE 5/26/10	TIME ARRIVED 1645
STARTED LOADING 1645	TIME LEFT 1715
UNLOADING DRIVER BRYAN BEAUPRE	PILOT CARS ONE ☐ TWO ☐
DATE 5/27/10	TIME ARRIVED 1430
STARTED UNLOADING 1630	TIME LEFT

NOT DIVERT WITHOUT CONSENT OF ASH GROVE CEMENT CO.

SPECIAL INSTRUCTIONS

Certified Mill Analysis 10-15

ASH GROVE CEMENT COMPANY Seller

Permanent address of Seller:
5 Centerpointe Drive Suite 350
Lake Oswego, OR 97035

ACCEPTED BY: This acknowledges receipt and title to the material described hereon, which is for use at the destination indicated above.

Robert Hady

B. Beaupre

LOADED BY

TIME USED BY CONSIGNEE FOR UNLOADING TRUCK, IN EXCESS OF TIME ALLOWED IN TARIFF, WILL BE ASSESSED AT THE APPLICABLE TARIFF RATES AND CHARGED TO CONSIGNEE. PRIOR TO SIGNING DELIVERY RECEIPT, VERIFY CONDITION OF SHIPMENT, TRUCK ARRIVAL, AND UNLOADING COMPLETED TIME. NO CLAIMS FOR SHORTAGE OF GOODS, LOSS OR DAMAGE WILL BE CONSIDERED UNLESS SUPPORTED BY DOCUMENTATION ACCEPTABLE TO SELLER.

VED FOR CONSIGNEE BY

Randy Andrews 9-28-10

(ALL SALES SUBJECT TO THE TERMS AND CONDITION ON THE FRONT AND BACK SIDES.)

PER

RAIL-LOADED TO FULL VISIBLE CAPACITY

TRUCK LOADED PER DRIVER'S INSTRUCTIONS



COMBINED UNIFORM STRAIGHT BILL OF LADING AND FREIGHT RECEIPT

Portland Bulk Dispatch 503-255-7902 Fax: 503-255-9245
 Portland Heavy Haul Dispatch 503-255-7904 Fax: 503-257-9028
 Portland Nationwide WATS 800-727-7900

Seattle 206-878-7980
 Seattle Fax: 206-878-0229
 Seattle Nationwide WATS 800-727-7980

RECEIVED, subject to the carrier's rules and rate tariff and other pricing agreements in effect on the date of the issue of this Bill of Lading, the property described above in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated above which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of, said property over all or any portion of said route to destination, and as to each party at any time interested in all or any of said property, that every carrier to be performed hereunder shall be subject to all the bill of lading terms and condition in the governing classification on the date of shipment.

Shipper hereby certifies that he is familiar with all the bill of lading terms and conditions in the governing carrier's rules, tariff and the said terms and conditions are hereby agreed to by the shipper and himself and his assigns.

ACC # 3-1719	SU # 01	DATE 09/26/10	TRUCK # 21-159	TRAILER # 361B-362B	P.O. #
SHIPPER Ash Grove cement			CITY & STATE Durkee OR		SHIPPER B.L. # 209704088
CONSIGNEE Ground Up Road Const Orofino			CITY & STATE Orofino ID		ROUTE CODE
BILL TO NAME		BILL TO NAME		C.O.D. \$	

COMMODITY CODE	NO. SHIPPING UNITS	KIND OF PACKAGING, DESCRIPTION OF ARTICLES, SPECIAL MARKS AND EXCEPTIONS	NET WEIGHT (Subject to Correction)	RATE	CHARGES
		TYPE I - 4 cement	71-600		

CARRIER'S LIABILITY FOR LOST OR DAMAGED FREIGHT IS LIMITED BY CARRIER'S RULES TARIFF WHICH IS INCORPORATED BY REFERENCE. SHIPPER SHALL FILE ALL CLAIMS WITHIN THE TIME LIMITS SET FORTH IN CARRIER'S RULES TARIFF. CLAIMS MUST BE FILED WITHIN 270 DAYS FROM THE DATE OF DELIVERY.

SHIPPER SIGNATURE: PJO GTF	LOADING DRIVER: P. J. O. GTF		PILOT CARS ONE ☐ TWO ☐	
	DATE: 09/26/10	TIME ARRIVED: 12:45	STARTED LOADING: 12:45	TIME LEFT: 13:15
CONSIGNEE SIGNATURE: M. Buck	UNLOADING DRIVER: P. J. O. GTF		PILOT CARS ONE ☐ TWO ☐	
	DATE: 09/27/10	TIME ARRIVED: 1:30	STARTED UNLOADING: 1:40	TIME LEFT:

DO NOT DIVERT WITHOUT CONSENT OF ASH GROVE CEMENT CO.

SPECIAL INSTRUCTIONS

Certified Mill Analysis 10-15

ASH GROVE CEMENT COMPANY Seller

Permanent address of Seller:
 5 Centerpointe Drive Suite 350
 Lake Oswego, OR 97035

ACCEPTED BY: This acknowledges receipt and title to the material described herein, which is for use at the destination indicated above.

LOADED BY

TIME USED BY CONSIGNEE FOR UNLOADING TRUCK, IN EXCESS OF TIME ALLOWED IN TARIFF, WILL BE ASSESSED AT THE APPLICABLE TARIFF RATES AND CHARGED TO CONSIGNEE. PRIOR TO SIGNING DELIVERY RECEIPT, VERIFY CONDITION OF SHIPMENT, TRUCK ARRIVAL, AND UNLOADING COMPLETED TIME. NO CLAIMS FOR SHORTAGE OF GOODS, LOSS OR DAMAGE WILL BE CONSIDERED UNLESS SUPPORTED BY DOCUMENTATION ACCEPTABLE TO SELLER.

IVED FOR CONSIGNEE BY

Reidy Norland 9-28-10

PER

RAIL-LOADED TO FULL VISIBLE CAPACITY

TRUCK LOADED PER DRIVER'S INSTRUCTIONS

(ALL SALES SUBJECT TO THE TERMS AND CONDITION ON THE FRONT AND BACK SIDES.)

Projects: [WA PRA FVNP 100\(1...](#) Constructions: [Progress Pay Periods](#) 1 INS: [Pay Note](#)

[Return To Pr](#)

Project Info Design **Construction** Account Team

Core Contract Status **Progress Payment** SubContractors Labor/Equipment Daily Reports Daily Diary Claims Contract Modifications

Grand Summary **Pay Notes** Pay Note Summaries Non CM Pay Items Period Account Progress Payment Tracking

Project Number: WA PRA FVNP 100(1) **Project Name:** FORT VANCOUVER NATIONAL PARK **Contract Number:** DTFH-C2014 **States:** WA

[Save & Close](#) [Save](#) [Delete](#) [Cancel](#) [Cancel & Close](#) [Submit To PE](#) [Print Preview](#) [Print Preview \(Contractor Version\)](#)

* indicates a required field

FHWA Pay Note

Pay Note: 3 INS **Pay Item Number:** 31001-0000 **Line Number:** A 0420
Period: 1 INS **Pay Item Type:** Normal pay item **Contract Mod #:**
Description: RECYCLED AGGREGATE BASE

	Contract Quantities				Revised Quantities		Probables		
Acct	Quantity	Unit Price	Unit	Amount	Qty	Amount	Quantity	Amount	% Over / Under
	5,000	\$5.00	SQYD	\$25,000.00	5,000	\$25,000.00	5,000	\$25,000.00	0.00
CON01	5,000	\$5.00	SQYD	\$25,000.00	5,000	\$25,000.00	5,000	\$25,000.00	0.00

Pay Note Date*: 08-08-2013 [select](#) [clear](#)

Entries:

Pay Note Entry #1

Work Date Start Date*:

08-07-2013 [select](#) [clear](#)

Work Date End Date*:

08-07-2013 [select](#) [clear](#)

Location/Description*:

B I U

45+455.5 to 46+104.1 (Including pullout width):

Total = 5363.30 SQYD

CON01 Main account Quantity:

5363.3 SQYD

Remarks/Calculations:

B I U

*See attached field measurements and calculations

Conversion: (4484.40 m2 * 1.19599 SQYD/m2) = 5363.30 SQYD

[Delete](#)

[Add Entry](#)

CON01 Main account Quantity: 5,363.3

Total Pay Note Quantity: 5,363.3 SQYD

Total Production Days: 1

Production Rate: 5,363.3 SQYD/Day

Measured By*: Bob COE

FHWA Inspector:

Contractor Inspector:

Interim/Final*: ☒ Interim ☐ Final

Supporting Documentation:

File Name:

31001 Recycled Agg Base support.pdf

[Delete](#)

[Add Document](#)

Reference:

B I U

[Save & Close](#) [Save](#) [Delete](#) [Cancel](#) [Cancel & Close](#) [Submit To PE](#) [Print Preview](#) [Print Preview \(Contractor Version\)](#)



COMPUTATIONS		Project #:
Client Name:		Sheet <u>1</u> of <u>2</u>
Prepared by: <u>T. Erickson</u>	Date: <u>6/16/09</u>	Checked by: Date

Project Name: Beartooth Hwy.

OFTAIL = Milling Area East of NE Park Entrance

Total Length Measured w/ wheel = 649m

Pullout (25m length)

STA	DIST	WIDTH LENGTH	WIDTH AVG. LENGTH	Area (m ²)
0		0		
5m	5m	3.3	1.65m	8.25
10m	5m	4.4	3.85	19.25
15m	5m	4.8	4.6	23
20m	5m	4.0 ✓	4.4	22
25m ✓	5m	0	2	10 ✓

Pullout TOTAL =

RECEIVED
JUN 16 2009
[Signature]

182.5 m² ✓

OFTEDAL CONSTRUCTION, INC

ROADWAY

STA	DIST	WIDTH	AUG WIDTH	Area (m ²)
46+104.1	34.1	7.4	7.2	245.52
46+070	30	7.0	6.9	207
46+040	30	6.8	6.8	204
45+910	30	6.8 ✓	6.75	202.5
45+980	30	6.7	6.7	201
45+950	30	6.7	6.7	201

✓
[Signature]
7/31/09

		COMPUTATIONS		Project #:
		Client Name: <i>Oftedal</i>		Sheet <u>2</u> of <u>2</u>
Project Name: <i>Hearttooth Hwy NE RAMP → Cooke City</i>	Prepared by: <i>T. Erickson</i>	Date: <i>6/6/09</i>	Checked by:	Date:

<u>STA</u>	<u>DIST</u>	<u>WIDTH</u>	<u>AUG. WIDTH</u>	<u>Area (m²)</u>
4.5+920	30	6.7	6.7	201
4.5+990	25	6.7	6.75	202.5 ✓
4.5+960	30	6.8	6.75	202.5
4.5+930	20	6.7	6.7	201
4.5+900	20	6.7	6.7	201
4.5+870	20	6.7	6.7	201
4.5+840	20	6.7	6.7	201
4.5+810	30	6.6	6.65	199.5
4.5+780	30	6.7 ✓	6.65	199.5
4.5+750	20	6.8	6.75	202.5
4.5+720	30	6.8	6.8	204 ✓
4.5+690	20	6.8	6.8	204
4.5+660	30	6.8	6.7	201
4.5+630	30	6.6	6.65	199.5
4.5+600	20	6.7	6.7	201
4.5+570	30	6.7 ✓	6.7	201
4.5+540	30	7.2 ✓	6.95	208.5
4.5+510	14.5	1.3	7.75	112.38

[Signature]
7/31/09

3140.08

Total Roadway =

4401.9 m² ✓

+ Pulver =

82.5 m²

GRAND TOTAL =

4484.4 m² ✓

Section 400

40101 Superpave Hot Asphalt Concrete Pavement _____ Page 85

40105 Antistrip Additive _____ Page 90

41201 Tack Coat _____ Page 94

Projects: [WA PRA FVNP 100\(1...](#) [Constructions: Progress Pay Periods](#) [1 INS: Pay Note](#)

[Return To Proj](#)

Project Info Design **Construction** Account Team

Core Contract Status **Progress Payment** SubContractors Labor/Equipment Daily Reports Daily Diary Claims Contract Modifications

Grand Summary **Pay Notes** Pay Note Summaries Non CM Pay Items Period Account Progress Payment Tracking

Project Number: WA PRA FVNP 100(1)

Project Name: FORT VANCOUVER NATIONAL PARK

Contract Number: DTFH-C2014

States: WA

[Save & Close](#) [Save](#) [Delete](#) [Cancel](#) [Cancel & Close](#) [Submit To PE](#) [Print Preview](#) [Print Preview \(Contractor Version\)](#)

* indicates a required field

FHWA Pay Note

Pay Note: 24 INS Pay Item Number: 40101-0100
 Period: 1 INS Pay Item Type: Normal pay item, may need roughness incentive
 Description: SUPERPAVE PAVEMENT, 3/8-INCH NOMINAL MAXIMUM SIZE AGGREGATE, <0.3 MILLION ESAL

Line Number: A 0440
 Contract Mod #:

Contract Quantities					Revised Quantities		Probables		
Acct	Quantity	Unit Price	Unit	Amount	Qty	Amount	Quantity	Amount	% Over / Under
	35,000.000	\$115.00	TON	\$4,025,000.00	35,000.000	\$4,025,000.00	35,000.000	\$4,025,000.00	0.00
CON01	35,000.000	\$115.00	TON	\$4,025,000.00	35,000.000	\$4,025,000.00	35,000.000	\$4,025,000.00	0.00

Pay Note Date*: 06-08-2010 [select](#) [clear](#)

Entries:

Pay Note Entry #1

Work Date Start Date*: 06-08-2010 [select](#) [clear](#)

Work Date End Date*: 06-08-2010 [select](#) [clear](#)

Location/Description*: Station 1277+60 to 1281+40 : 368.550 tons Lot 1

CON01 Main account Quantity: 368.5 TON

Remarks/Calculations: See attached documentation:
 (a) Daily Mass Record WFLHD 422M
 (b) Street Delivery Report, spread report WFLHD 434
 (c) Tare Chart WFLHD 443
 (d) ticket check MS Excel spreadsheet

[Delete](#)

[Add Entry](#)

CON01 Main account Quantity: 368.500

Total Pay Note Quantity: 368.500 TON

Total Production Days: 1

Production Rate: 368.500 TON/Day

Measured By*: Bob COE

FHWA Inspector:

Contractor Inspector:

Interim/Final*: ☒ Interim ☐ Final

Supporting Documentation: File Name: 40101 Superpave asphalt support.pdf

[Delete](#)

[Add Document](#)

Reference:

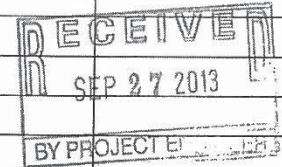
[Save & Close](#) [Save](#) [Delete](#) [Cancel](#) [Cancel & Close](#) [Submit To PE](#) [Print Preview](#) [Print Preview \(Contractor Version\)](#)

WFLHD-443
(Rev 12/90)

TARE CHART

PAGE NO. 1PROJECT: AK PRA DENA 10(13)EM NO.: 40101 Superpave PavementLOADS NOT APPEARING ON
STREET DELIVERY REPORT
WILL BE DELETED UNLESS
SATISFACTORILY EXPLAINED.DATE 9/23/2013SOURCE NO.: GNW - MP 247 Parks Hwy pitPay Lot No.: 1SHEET NO. 1 OF 1

TRUCK NO.	519	922	203	781	928
TARE 1	36,100	36,500	39,800	36,600	36,500
TARE 2	36,300	36,300	37,350	36,750	36,400
TARE 3					
TARE AVERAGE	36,200	36,400	38,575	36,675	36,450
TRUCK TALLY	//		//	//	
NUMBER LOADS	2	3	2	2	3
TARE WEIGHT	72400	109200	77150	73350	109350
TRUCK NO.	Blk #4				
TARE 1	37,300				
TARE 2	37,200				
TARE 3					
TARE AVERAGE	37,250				
TRUCK TALLY					
NUMBER LOADS	3				
TARE WEIGHT	111750				
TRUCK NO.					
TARE 1					
TARE 2					
TARE 3					
TARE AVERAGE					
TRUCK TALLY					
NUMBER LOADS					
TARE WEIGHT					

TOTAL TARE WEIGHT 553200 ✓I CERTIFY THIS INFORMATION TO BE
C O R R E C T
BY: Steve HysmithDATE: 9/27/2013COMPANY: Tutka, LLC

wflhd443.wpf

Denali Park Road -Sanctuary Area
AK PRA DENA 10(13)
40101-0100 Superpave Pavement
Haul Ticket Check 9/23/2013
by: John Smith

Load	Quan.	Remark
	1	50900
	2	47000
	3	46100
	4	51300
	5	48400
	6	50400
	7	49900
	8	49500
	9	49300
	10	49900
	11	47850
	12	49150
	13	48900
	14	50400
	15	48100
TOTAL:	368.55	tons

Projects: [WA PRA FVNP 100\(1...](#) Constructions: [Progress Pay Periods](#) 1 INS: [Pay Note](#) [Return To Proj](#)

Project Info Design **Construction** Account Team

Core Contract Status **Progress Payment** SubContractors Labor/Equipment Daily Reports Daily Diary Claims Contract Modifications

Grand Summary **Pay Notes** Pay Note Summaries Non CM Pay Items Period Account Progress Payment Tracking

Project Number: WA PRA FVNP 100(1) **Project Name:** FORT VANCOUVER NATIONAL PARK **Contract Number:** DTFH-C2014 **States:** WA

[Save & Close](#) [Save](#) [Delete](#) [Cancel](#) [Cancel & Close](#) [Submit To PE](#) [Print Preview](#) [Print Preview \(Contractor Version\)](#) * indicates a required field

FHWA Pay Note

Pay Note: 25 INS **Pay Item Number:** 40105-1000 **Line Number:** A 0480
Period: 1 INS **Pay Item Type:** Normal pay item **Contract Mod #:**
Description: ANTISTRIP ADDITIVE, TYPE 1

Contract Quantities				Revised Quantities		Probables		
Acct	Quantity	Unit Price	Unit	Amount	Qty	Amount	Quantity	% Over / Under
	100.0	\$25.00	TON	\$2,500.00	100.0	\$2,500.00	100.0	0.00
CON01	100.0	\$25.00	TON	\$2,500.00	100.0	\$2,500.00	100.0	0.00

Pay Note Date*: 09-17-2010 [select](#) [clear](#)

Entries:

Pay Note Entry #1

Work Date Start Date*: 09-11-2010 [select](#) [clear](#)

Work Date End Date*: 09-16-2010 [select](#) [clear](#)

Location/Description*:

B **I** **U**

9/11 = 26.4 tons
9/14 = 28.7 tons
9/16 = 27.2 tons
Total = 82.3 tons

8,700.97 tons of Superpave Pavement Placed, @ 5.5% AC mix design = 8,222.41 tons of rock
Antistrip Additive added at 1% per weight of rock = 82.2 tons
Invoice totals verified by weight of total tons placed.

CON01 Main account Quantity:
82.3 TON

Remarks/Calculations:

B **I** **U**

*See attached documentation/calculations

Graymont Western US Inc.
 Indian Creek Plant
 4 1/2 miles west Indian Creek Road
 P.O Box 550
 Townsend MT 59644

Ship To: 653892

BILL OF LADING - Not Negotiable

Customer#:	173264	B/L Number:	2440962	Page: 1
Customer PO#:	id pfh cdp 67(2)	Ship Date:	09/11/10	
Our Order No:	104443 SO	Broker #:	172957 FCA-COLLECT	
Related Ord No:		Broker Name:	Customer's Truck	
Order Date:	09/07/10	Zone:	Blank	
Terms:	Net 30	Delivery:	09/09/10	
Shipment#:	27354079	CTQ/NIR:		

165897

Gross:	86460 lb	21:00	Scale ID:	20501
Tare:	33660 lb	20:22	Car/Truck #:	0051
Net:	52800 lb		Carrier:	Warren Transport Inc.

Item	Quantity	Description
2000	26.400 TN	Chem Hydrate, Bulk High Calcium Hydrated Lime

This shipment of hydrated lime for the above name project, identified and covered by this B/L conforms to the chemical and physical requirements of AASHTO M 216 Type 1 Hydrated Lime.

EMERGENCY TEL. NO. WHMIS: (800) 424-9300 CHEMTREC (US)
 (613) 996-6666 CANUTEC (CANADA)

TRUCK INSPECTED BY _____



Delivery Instructions:

Shipper/Deputy:

Carrier:

Consignee:

pe. SS

per [Signature]

per _____

B/L Number 2440962

ACKNOWLEDGEMENT OF DELIVERY

Graymont Western US Inc.
Indian Creek Plant
4 1/2 miles west Indian Creek Road
P.O Box 550
Townsend MT 59644

Ship To: 653892

ILL OF LADING - Not Negotiable

Customer#:	173264	B/L Number:	2443374	Page:	1
Customer PO#:	id pfh cdp 67(2)	Ship Date:	09/14/10		
Our Order No:	104443 SO	Broker #:	172957 FCA-COLLECT		
Related Ord No:		Broker Name:	Customer's Truck		
Order Date:	09/07/10	Zone:	Blank		
Terms:	Net 30	Delivery:	09/10/10		
Shipment#:	27354087	CTQ/NIR:			

165897

Gross:	91460 lb	13:27	Scale ID:	20501
Tare:	34060 lb	11:57	Car/Truck #:	0051
Net:	57400 lb		Carrier:	Warren Transport Inc.

Item	Quantity	Description
2000	28.700	TN Chem Hydrate, Bulk High Calcium Hydrated Lime

This shipment of hydrated lime for the above name project, identified and covered by this B/L conforms to the chemical and physical requirements of AASHTO M 216 Type 1 Hydrated Lime.

EMERGENCY TEL. NO. WHMIS: (800) 424-9300 CHEMTREC (US)
(613) 996-6666 CANUTEC (CANADA)

TRUCK INSPECTED BY _____



Delivery Instructions:

Shipper/Deputy:

Carrier:

Consignee:

pe

JH

per

[Signature]

per

B/L Number 2443374

ACKNOWLEDGEMENT OF DELIVERY

Graymont Western US Inc.
 Indian Creek Plant
 4 1/2 miles west Indian Creek Road
 P.O Box 550
 Townsend MT 59644

Ship To: 653892

BILL OF LADING - Not Negotiable

Customer#:	173264	B/L Number:	2445357	Page: 1
Customer PO#:	ID PFH CDP 67(2)	Ship Date:	09/16/10	
Our Order No:	104762 SO	Broker #:	172957 FCA-COLLECT	
Related Ord No:		Broker Name:	Customer's Truck	
Order Date:	09/15/10	Zone:	Blank	
Terms:	Net 30	Delivery:	09/15/10	
Shipment#:	27462707	CTQ/NIR:		

165897

Gross:	88900 lb	8:31	Scale ID:	20501
Tare:	34480 lb	7:46	Car/Truck #:	0051
Net:	54420 lb		Carrier:	Warren Transport Inc.

Item	Quantity	Description
2000	27.210 TN	Chem Hydrate, Bulk High Calcium Hydrated Lime

This shipment of hydrated lime for the above name project, identified and covered by this B/L conforms to the chemical and physical requirements of AASHTO M 216 Type 1 Hydrated Lime.

EMERGENCY TEL. NO. WHMIS: (800) 424-9300 CHEMTREC (US)
 (613) 996-6666 CANUTEC (CANADA)

TRUCK INSPECTED BY _____



Delivery Instructions:
 GRANGEMONT ROAD

Shipper/Deputy:

Carrier:

Consignee:

per 

per 

per _____
 B/L Number 2445357

ACKNOWLEDGEMENT OF DELIVERY

Projects: [WA PRA FVNP 100\(1\)](#) Constructions: [Progress Pay Periods](#) 1 INS: [Pay Note](#)

[Return To Proj](#)

Project Info Design **Construction** Account Team

Core Contract Status **Progress Payment** SubContractors Labor/Equipment Daily Reports Daily Diary Claims Contract Modifications

Grand Summary **Pay Notes** Pay Note Summaries Non CM Pay Items Period Account Progress Payment Tracking

Project Number: WA PRA FVNP 100(1)

Project Name: FORT VANCOUVER NATIONAL PARK

Contract Number: DTFH-C2014

States: WA

[Save & Close](#) [Save](#) [Delete](#) [Cancel](#) [Cancel & Close](#) [Submit To PE](#) [Print Preview](#) [Print Preview \(Contractor Version\)](#)

* indicates a required field

FHWA Pay Note

Pay Note: 26 INS

Period: 1 INS

Description: TACK COAT

Pay Item Number:

41201-0000

Pay Item Type:

Normal pay item

Line Number:

A 0520

Contract Mod #:

Contract Quantities					Revised Quantities		Probables		
Acct	Quantity	Unit Price	Unit	Amount	Qty	Amount	Quantity	Amount	% Over / Under
	5.0	\$300.00	TON	\$1,500.00	5.0	\$1,500.00	5.0	\$1,500.00	0.00
CON01	5.0	\$300.00	TON	\$1,500.00	5.0	\$1,500.00	5.0	\$1,500.00	0.00

Pay Note Date*: 10-05-2010 [select](#) [clear](#)

Entries:

Pay Note Entry #1

Work Date Start Date*: 09-14-2010 [select](#) [clear](#)

Work Date End Date*: 09-15-2010 [select](#) [clear](#)

Location/Description*: **B I U**

Attached Ticket: 5.09 tons

Station 20+05 to 121+84 = 10.179 ft @ 12" wide = 122,148 SQFT = 13,572 SY
Tack applied at 0.09 gal/SY = 1221.48 gal @ 240 gal/ton = 5.090 tons

Weigh ticket matches measured calculations.

Be sure to check contractors application rate

CON01 Main account Quantity: 5.09 TON

Remarks/Calculations: **B I U**

*See attached documentation/calculations

[Delete](#)

[Add Entry](#)

CON01 Main account Quantity: 5.1

Total Pay Note Quantity: 5.1 TON

Total Production Days: 2

Production Rate: 2.55 TON/Day

Measured By*: Bob COE

FHWA Inspector:

Contractor Inspector:

Interim/Final*: ☒ Interim ☐ Final

Supporting Documentation: File Name: 412 Example.pdf

[Delete](#)

[Add Document](#)

Reference:

B I U

[Save & Close](#) [Save](#) [Delete](#) [Cancel](#) [Cancel & Close](#) [Submit To PE](#) [Print Preview](#) [Print Preview \(Contractor Version\)](#)

FORM FHWA 17-348 (12/2007)



U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION
Western Federal Lands Highway Division
610 E. 5th St. Vancouver, Washington 98661

-03 109.01

Date Stamp

RECEIVED

OCT 05 2010

BY PROJECT ENGINEER Page 1 of 1

(a)	Project Name:	GRANGEMONT ROAD
	Project Number:	ID PFH CDP 67(2)
(b)	Item Number:	41201-0000
	Item Description:	Tack Coat
(c)	Date work performed:	9/14/2010

Source: COWCREEK

Pay Lot Number: _____

Sheet of

DAILY MASS RECORD*[illegible]

* Loads not appearing on street delivery report will be deleted unless satisfactorily explained.

(h) Name of person measuring work: *Chris R*

(i) ☒ Interim Measurement ☐ Final Measurement

I certify the above measurements and calculations are correct and total quantity is subject to direct payment for the item identified.

(j) Contractor Representative

Page 2 Summary

Mass	
Tare	

Daily Summary

Units Measured	Mass	17.34	0.00
	Tare	12.25	
	Daily Total	5.09	0.00

FHWA Use Only

Approved	Entered To Record	Est. #
	Checked By:	
FHWA Representative	Date:	

PFH CDP 67(2)
ngemont

Truck Shift Total: -12.25 T
Accum Shift Total: 13.95 T

No.	31850 41202-1000 Tack Coat		
Load of	Tack Coat		
From			
To	FWHA		
	Time	Date	
	08:34AM	09/04/2010	
		14	
Tack Truck	Gross	17.34	T
	Tare	12.25	T
	Net	5.09	T
Driver	Emily Guendau Weigher		

Section 500

55101 Driven Piles _____ Page 98

55201 Strucutal Concrete _____ Page 101

Projects: [WA PRA FVNP 100\(1...](#) Constructions: [Progress Pay Periods](#) 1 INS: [Pay Note](#) [Return To Pr](#)

Project Info Design **Construction** Account Team

Core Contract Status **Progress Payment** SubContractors Labor/Equipment Daily Reports Daily Diary Claims Contract Modifications

Grand Summary **Pay Notes** Pay Note Summaries Non CM Pay Items Period Account Progress Payment Tracking

Project Number: WA PRA FVNP 100(1) Project Name: FORT VANCOUVER NATIONAL PARK Contract Number: DTFH-C2014 States: WA

Save & Close Save Delete Cancel Cancel & Close Submit To PE Print Preview Print Preview (Contractor Version) * indicates a required field

FHWA Pay Note

Pay Note: 53 INS Pay Item Number: 55101-1800 Line Number: A 0540
 Period: 1 INS Pay Item Type: Normal pay item Contract Mod #:
 Description: STEEL H-PILES 14 X 73, IN PLACE

Acct	Contract Quantities				Revised Quantities		Probables		% Over / Under
	Quantity	Unit Price	Unit	Amount	Qty	Amount	Quantity	Amount	
	800.0	\$120.00	LNFT	\$96,000.00	800.0	\$96,000.00	800.0	\$96,000.00	0.00
CON01	800.0	\$120.00	LNFT	\$96,000.00	800.0	\$96,000.00	800.0	\$96,000.00	0.00

Pay Note Date*: 08-12-2013

Entries:

Pay Note Entry #1

Work Date Start Date*: 08-06-2013

Work Date End Date*: 08-09-2013

Location/Description*: STA 8+143.037, drive steel H-piles for Abutment No. 2 = 152.4 m = 500.024 LNFT

CON01 Main account Quantity: 500.02 LNFT

Remarks/Calculations: 1 m = 3.281 ft
152.4 m x 3.281 ft = 500.024 LNFT
*See attached documentation: pile layout and driving record

CON01 Main account Quantity: 500.0

Total Pay Note Quantity: 500.0 LNFT

Total Production Days: 4

Production Rate: 125.0 LNFT/Day

Measured By*: Bob COE

FHWA Inspector:

Contractor Inspector:

Interim/Final*: ☒ Interim ☐ Final

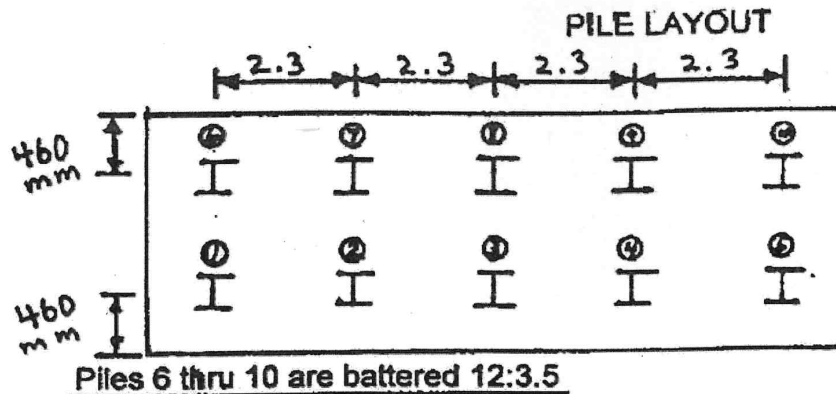
Supporting Documentation: File Name: 551 Steel H-Piles_14x73_In Place Example.pdf

Reference:

Save & Close Save Delete Cancel Cancel & Close Submit To PE Print Preview Print Preview (Contractor Version)

See Appendix F for Wave Equation example

When measuring piles by the linear foot (meter), measure the length of pile from the cutoff elevation to the tip.



8+143.037

C/L ABUT

Pile Driving Record

1/10/1998

Bolder Creek Bridge

Abutment #2

Pile Type: **Steel H-Pile,**

Hammer Name/Model: Delmag D8-22

Hammer Energy: 23.87 kN-m

Req'D Bearing: 440 kN

Pile No.	Length in Leads (m)	Cut Off Length (m)	Cut Off Elev. (m)	Tip Elev. (m)
1	7.62	0.229	238.658	225.552
	7.62	1.905	238.658	
2	15.24	3.100	238.658	226.518
3	15.24	3.200	238.658	226.619
4	15.24	2.819	238.658	226.238
5	15.24	2.234	238.658	225.653
6	7.62	0.305	238.658	225.857
	7.62	1.600	238.658	
7	15.24	2.643	238.658	226.564
8	15.24	2.691	238.658	226.613
9	15.24	2.286	238.658	226.223
10	15.24	1.829	238.658	225.784
	152.4	24.841		

Pile No.	Ground Elev (m)	Blows per 25mm	55101 (m)	55106 (ea)
1	238.354	6	13.11	1
	238.354			
2	238.354	7	12.14	
3	238.354	7	12.04	
4	238.354	6	12.42	
5	238.354	6	13.01	
6	238.354	6	12.8	1
	238.354			
7	238.354	7	12.09	
8	238.354	7	12.05	
9	238.354	8	12.44	
10	238.354	6	12.87	
			125.0	2

WDFD-472
3/83
U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION
VANCOUVER, WASHINGTON

MISC. CONSTRUCTION NOTES

DATE: _____ LINE: _____ PARTY: _____
PROJECT: _____ ITEM - 55101
STAMP _____ Steel H-Piles
In Place

CAPACITY COMPUTATIONS

FP96 TABLE 551-1 PILE HAMMER MINIMUM ENERGY
CALCULATE ULTIMATE PILE CAPACITY (RU):

RU = 440 kN REQUIRED BEARING x

FACTOR OF SAFETY (3) = 1320 kN

FROM TABLE 551-1: 1320 kN => 21 kJ REQUIRED

HAMMER ENERGY (kJ = kN-m)

CHECK PROPOSED HAMMER ENERGY:

DELMAG D8-22 MAX. ENERGY RATING = 23.87 kN-m

DYNAMIC FORMULA:

RU = $7\sqrt{E} \log(10N) - 550$

RU = ULTIMATE PILE CAPACITY (kN) = 1320 kN

E = MANUFACTURER'S RATED HAMMER ENERGY

IN JOULES AT THE FIELD OBSERVED RAM

STROKE = 23870 JOULES (AT MAX. ENERGY)

N = NUMBERS OF HAMMER BLOWS PER 25mm AT

FINAL PENETRATION

SOLVING FOR N: _____

WHERE $N = 10^x$

$$\text{Therefore } x = \left(\frac{RU + 550}{7\sqrt{E}} \right) - 1$$

SUBSTITUTE VALUES AND SOLVE FOR X:

$$X = \left(\frac{1320 + 550}{7\sqrt{23870}} \right) - 1$$

$$X = 0.73$$

SOLVING FOR N:

$$N = 10^x$$

$$N = 10^{0.73}$$

$$N = 5.4 \text{ BLOWS PER 25 mm AT MAX. ENERGY}^*$$

NOTES: * 1)

Hammers seldom operate at the maximum manufacturer's rated energy. Hammer energy values should be based on field observed ram stroke. Hammer manufacturers can provide tables of ram stroke versus hammer energy.

2)

Use dynamic formula (FP96 Subsection 551.06(b) to determine ultimate capacity (blow per mm) unless the wave equation is required according to FP96 Subsection 551.03(b). If wave equation is used, WFLHD Geotech Branch will furnish the amount of blows required to obtain pile capacity.

COMPUTED BY: ABC CHECKED BY: JKD

DATE: _____ DATE: _____

Projects: WA PRA FVNP 100(1)... Constructions: Progress Pay Periods 1 INS: Pay Note

[Return To Proj](#)

Project Info	Design	Construction	Account	Team
Core	Contract Status	Progress Payment	SubContractors	Labor/Equipment
			Daily Reports	Daily Diary
			Claims	Contract Modifications
Grand Summary	Pay Notes	Pay Note Summaries	Non CM Pay Items	Period
		Account	Progress Payment Tracking	

Project Number: WA PRA FVNP 100(1)

Project Name: FORT VANCOUVER NATIONAL PARK

Contract Number: DTFH-C2014

States: WA

* indicates a required field

FHWA Pay Note

Pay Note: 39 INS

Pay Item Number:

55201-0200

Line Number:

A 0560

Period: 1 INS

Pay Item Type:

Normal pay item

Contract Mod #:

Description: STRUCTURAL CONCRETE, CLASS A (AE)

Acct	Contract Quantities				Revised Quantities		Probables		% Over / Under
	Quantity	Unit Price	Unit	Amount	Qty	Amount	Quantity	Amount	
	120.000	\$450.00	CUYD	\$54,000.00	120.000	\$54,000.00	120.000	\$54,000.00	0.00
CON01	120.000	\$450.00	CUYD	\$54,000.00	120.000	\$54,000.00	120.000	\$54,000.00	0.00

Pay Note Date*: 10-03-2011

Entries:

Pay Note Entry #1

Work Date Start Date*:

09-30-2011

Work Date End Date*:

09-30-2011

Location/Description*:

B I U

Pier Cap, abutment 1 = 4.27 X 11.4 X 0.88 = 42.84CUYD
 Pier Cap, abutment 2 = 4.27 X 11.4 X 0.88 = 42.84CUYD
 Total = 85.68CUYD

per contract quantity

CON01 Main account Quantity:

112.07 CUYD

Remarks/Calculations:

B I U

abutment 1 @ 8 +357
 abutment 2 @ 8 +453

*See attached supporting sketch and calculations

CON01 Main account Quantity: 112.070

Total Pay Note Quantity: 112.070 CUYD

Total Production Days: 1

Production Rate: 112.070 CUYD/Day

Measured By*: Bob COE FHWA Inspector: Contractor Inspector: Interim/Final*: ☒ Interim ☐ Final

Supporting Documentation:

File Name:

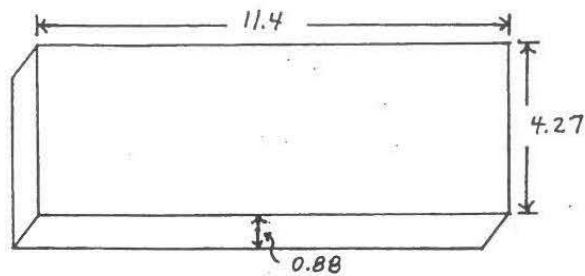
55201_struc_conc_support.pdf

Reference:

B I U

Project Name: FORT VANCOUVER NATIONAL PARK
 Project Number: WA PRA FVNP 100(1)
 Item No. **55201-0200 Structural Concrete**
 Measurements and Calculations by: John Smith 7/06/2013

Pier Cap Abut. No. 1				
	4.27 x 11.4 x .88 =	42.84	CUYD	
Pier Cap Abut. No. 2				
	Same as Pier Cap Abut. No. 1	42.84	CUYD	
Total Item 55201 Est. No. 1		85.68	CUYD	



	(Documentation for Progress Est.)			

Section 600

60101 Minor Concrete Structures _____	Page 103
60201 Culvert _____	Page 109
60510 Collector Pipe _____	Page 116
60801 Concrete and Rubble Paved Waterway _____	Page 118
61701 Guardrail System _____	Page 120
61702 Guardrail Terminal Section _____	Page 122
62201 Motor Grader _____	Page 124
62301 General Labor _____	Page 125
62503 Turf Establishment _____	Page 126
63316 Remove and Reset Signs _____	Page 129
63401 Pavement Markings _____	Page 131
63504 Temporary Traffic Control, Construction Sign _____	Page 137
63507 Temporary Traffic Control, Traffic and Safety Supervisor _____	Page 140
63509 Temporary Traffic Control, Flagger _____	Page 142

Projects: WA PRA FVNP 100(1)... Constructions: Progress Pay Periods 1 INS: Pay Note

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Project Info Design **Construction** Account Team

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Grand Summary **Pay Notes** Pay Note Summaries Non CM Pay Items Period Account Progress Payment Tracking

Project Number: WA PRA FVNP 100(1) Project Name: FORT VANCOUVER NATIONAL PARK Contract Number: DTFH-C2014 States: WA

Save & Close Save Delete Cancel Cancel & Close Submit To PE Print Preview Print Preview (Contractor Version) * indicates a required field

FHWA Pay Note

Pay Note: 49 INS Pay Item Number: 60101-0000 Line Number: A 0580
 Period: 1 INS Pay Item Type: Normal pay item Contract Mod #:
 Description: CONCRETE (HEADWALLS)

Acct	Contract Quantities				Revised Quantities		Probables		% Over / Under
	Quantity	Unit Price	Unit	Amount	Qty	Amount	Quantity	Amount	
	12.0	\$200.00	CUYD	\$2,400.00	12.0	\$2,400.00	12.0	\$2,400.00	0.00
CON01	12.0	\$200.00	CUYD	\$2,400.00	12.0	\$2,400.00	12.0	\$2,400.00	0.00

Pay Note Date*: 09-08-2008 select clear

Entries:

Pay Note Entry #1

Work Date Start Date*:

09-07-2008 select clear

Work Date End Date*:

09-07-2008 select clear

Location/Description*:

B I U Headwall at STA 102+08:

(16.07 SQYD + 5.7 SQYD) x (0.15 YD) = 3.266 CUYD

CON01 Main account Quantity:

3.27 CUYD

Remarks/Calculations:

B I U *See attached documentation/calculations:

(a) hand drawn field cross section
 (b) irregular polygon area calculation sheets

Delete

Add Entry

CON01 Main account Quantity: 3.3

Total Pay Note Quantity: 3.3 CUYD

Total Production Days: 1

Production Rate: 3.27 CUYD/Day

Measured By*: Bob COE

FHWA Inspector:

Contractor Inspector:

Interim/Final*: ☒ Interim ☐ Final

Supporting Documentation:

File Name:

60101 Conc Minor Structures (Headwall) support.pdf

Delete

Add Document

Reference:

B I U

Save & Close Save Delete Cancel Cancel & Close Submit To PE Print Preview Print Preview (Contractor Version)



HKM Engineering Inc.

1015 S. Montana St.
P.O. Box 3588
Butte, MT 59701

Project

Beartooth Highway

Detail

STA 102+00 PT Headwall Conc. Volume

Sheet

1
of *2*

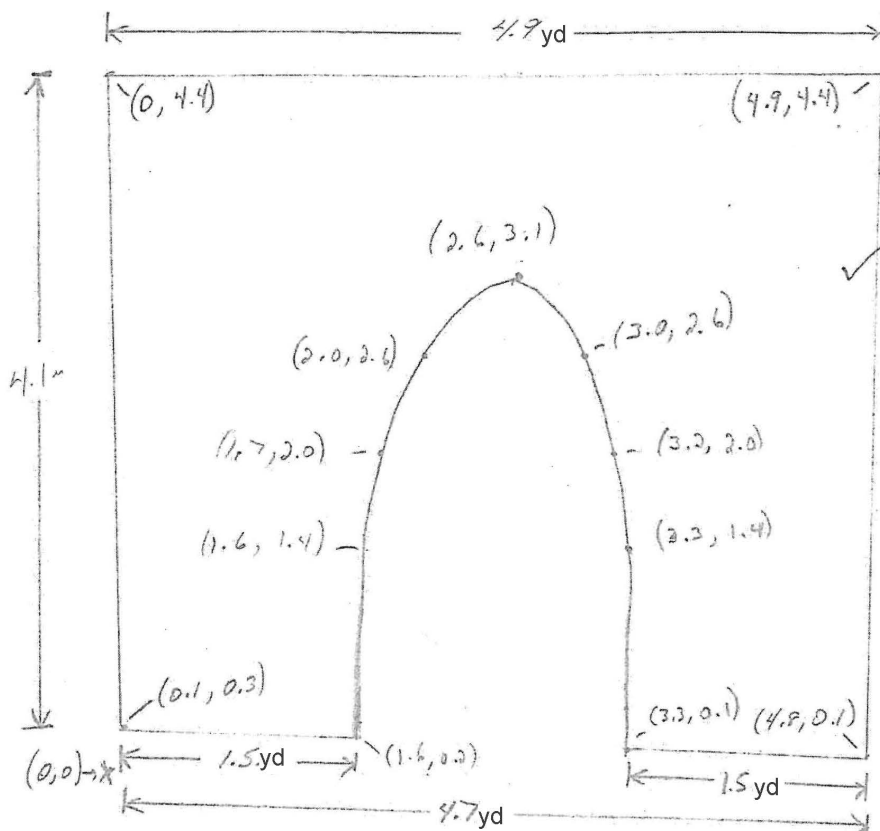
9/4/08

Project No.

60101

By *T. Erickson*

SLOPE SECTION

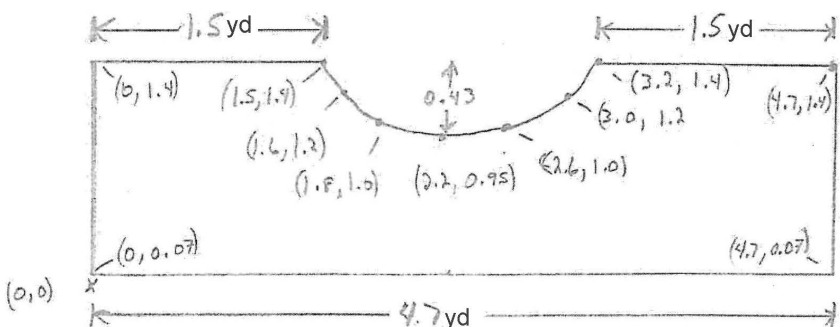


RECEIVED
SEP 08 2008
BY PROJECT MANAGER

4.3 yd

20.16 sqyd
- 4.09 sqyd
16.07 sqyd

FACE SECTION



1.33 yd

6.25 sqyd
- 0.55 sqyd
5.7 sqyd

16.06 sqyd + 5.7 sqyd x 0.15 depth = 3.266 CU YD

STA 102+08 Culvert Concrete Headwall
Slope Section Area

Irregular Polygon Area Calculator - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Search Favorites Go Settings

Address: http://www.analyzemath.com/geometry_calculators/irregular_polygon_area.htm

Web www.analyzemath.com

Google Search

Area = 20.16

Enter

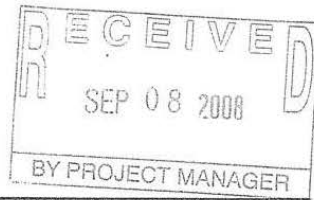
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Calculus Questions - Geometry Tutorials - Precalculus Applets - Applied Math - Precalculus Questions and Problems -
Equations, Systems and Inequalities - Geometry Calculators - Math Software - Elementary Statistics -
Author - e-mail

Updated: 25 November 2007 (A Dendane)

Applet Irregular Polygons Areas started

Internet



STA 102+08 Culvert Concrete Headwall
Pipe in Slope Section Area to Subtract

Irregular Polygon Area Calculator - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Search Favorites Go Google Settings

Address http://www.analyzemath.com/Geometry_calculators/irregular_polygon_area.ht...

Web www.analyzemath.com

Google Search

n = 9

x	y
1.6	0.2
1.6	1.4
1.7	2.0
2.0	2.6
2.6	3.1
3.0	2.6
3.2	2.0
3.3	1.4
3.3	0.1

Enter

Area = 4.085 ✓

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Equations, Systems and Inequalities - Geometry Calculators - Math Software - Elementary Statistics -
Author - e-mail

Updated: 25 November 2007 (A Dendane)

Applet Irregular Polygons Areas started

Internet

STA 102+08 Culvert Concrete Headwall
Face Section Area

Irregular Polygon Area Calculator - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Search Favorites Go Settings

Address: http://www.analyzemath.com/Geometry_calculators/irregular_polygon_area.htm

Web www.analyzemath.com

Google Search

n = 4

x	y
0	0.07
0	1.4
4.7	1.4
4.7	0.07

Enter

Area = 6.251 ✓

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Equations, Systems and Inequalities - Geometry Calculators - Math Software - Elementary Statistics -
Author - e-mail

Updated: 25 November 2007 (A Dendane)

Applet Irregular Polygons Areas started

Internet

STA 102+08 Culvert Concrete Headwall
Pipe in Face Section Area to Subtract

Irregular Polygon Area Calculator - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Search Favorites Go Google Go Settings

http://www.analyzemath.com/Geometry_calculators/irregular_polygon_area.htm

Web www.analyzemath.com Google Search

$n = 7$

x	y
1.5	1.4
1.6	1.2
1.8	1
2.2	0.95
2.6	1
3.0	1.2
3.2	1.4

Area = 0.55 ✓

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[Equations, Systems and Inequalities](#) - [Geometry Calculators](#) - [Math Software](#) - [Elementary Statistics](#) -
[Author](#) - [e-mail](#)

Updated: 25 November 2007 (A Dendane)

Applet: Irregular_Polygons_Areas started

Internet

Projects: [WA PRA FVNP 100\(1...](#) Constructions: [Progress Pay Periods](#) 1 INS: [Pay Note](#)

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Project Info Design **Construction** Account Team

Core Contract Status **Progress Payment** SubContractors Labor/Equipment Daily Reports Daily Diary Claims Contract Modifications

Grand Summary **Pay Notes** Pay Note Summaries Non CM Pay Items Period Account Progress Payment Tracking

Project Number: WA PRA FVNP 100(1)

Project Name: FORT VANCOUVER NATIONAL PARK

Contract Number: DTFH-C2014

States: WA

[Save & Close](#) [Save](#) [Delete](#) [Cancel](#) [Cancel & Close](#) [Submit To PE](#) [Print Preview](#) [Print Preview \(Contractor Version\)](#)

* indicates a required field

FHWA Pay Note

Pay Note: 12 INS

Pay Item Number:

60201-0600

Line Number:

A 0600

Period: 1 INS

Pay Item Type:

Normal pay item

Contract Mod #:

Description: 18-INCH PIPE CULVERT

	Contract Quantities				Revised Quantities		Probables		
Acct	Quantity	Unit Price	Unit	Amount	Qty	Amount	Quantity	Amount	% Over / Under
	100.0	\$60.00	LNFT	\$6,000.00	100.0	\$6,000.00	100.0	\$6,000.00	0.00
CON01	100.0	\$60.00	LNFT	\$6,000.00	100.0	\$6,000.00	100.0	\$6,000.00	0.00

Pay Note Date*: 03-18-2014 [select](#) [clear](#)

Entries:

Pay Note Entry #1

Work Date Start Date*:

03-17-2014 [select](#) [clear](#)

Work Date End Date*:

03-17-2014 [select](#) [clear](#)

Location/Description*:

B I U

18 Inch Pipe Culvert Installed at Sta. 30+82

Pipe Length = 50.00 ft (excluding end sections)

CON01 Main account Quantity:

50.0 LNFT

Remarks/Calculations:

B I U

*See attached documentation/plans

[Delete](#)

[Add Entry](#)

CON01 Main account Quantity: 50.0

Total Pay Note Quantity: 50.0 LNFT

Total Production Days: 1

Production Rate: 50.0 LNFT/Day

Measured By*: Bob COE

FHWA Inspector:

Contractor Inspector:

Interim/Final*: ☒ Interim ☐ Final

Supporting Documentation: File Name:
602_18in_Example.pdf

[Delete](#)

[Add Document](#)

Reference:

B I U

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U.S. Department of Transportation
Western Federal Lands Highway Division
610 East Fifth Street
Vancouver, Washington 98661

Page: 1 of 1

Date: _____

Project: _____

_____**Culvert Notes**Staking _____
crew: _____

Station	Size	Length	Gauge or Class	Type	Inspector's Signature
30+82	18"	62'	Class IV	Concrete	

Beveled End Sections Inlet 1:2 In Place Ft. Lt. _____ Extend: Ft. Lt. _____
Outlet 1:2 Ft. Rt. _____ Ft. Rt. _____

Pipe Installed Date: _____ New: _____ Salvaged _____
Elevation Lt. 535.11 Rt. 533.87 Total Fall: 1.24
Cover Min: 1.0 Max: 1.73 Grade: 2%

Skew: _____

Station	Elevation		CROSS - SECTION NOTES				
	Grade	Ground					
30+82							
				Rt Shldr	CL	Lt Shldr	
0.00			533.87 Outlet Rt.	Subgrade Elev	538.15	536.54	538.16
17.75			534.22 Shldr. Rt.	Top of pipe	536.47	536.81	537.16
34.75			534.56 CL	Depth of cover	1.68	1.73	1.0
51.75			534.94 Shldr. Lt				
62.00			535.11 Inlet Lt.				

Good practice to record pipe heat numbers here to verify material certifications.

SUMMARY OF QUANTITIES

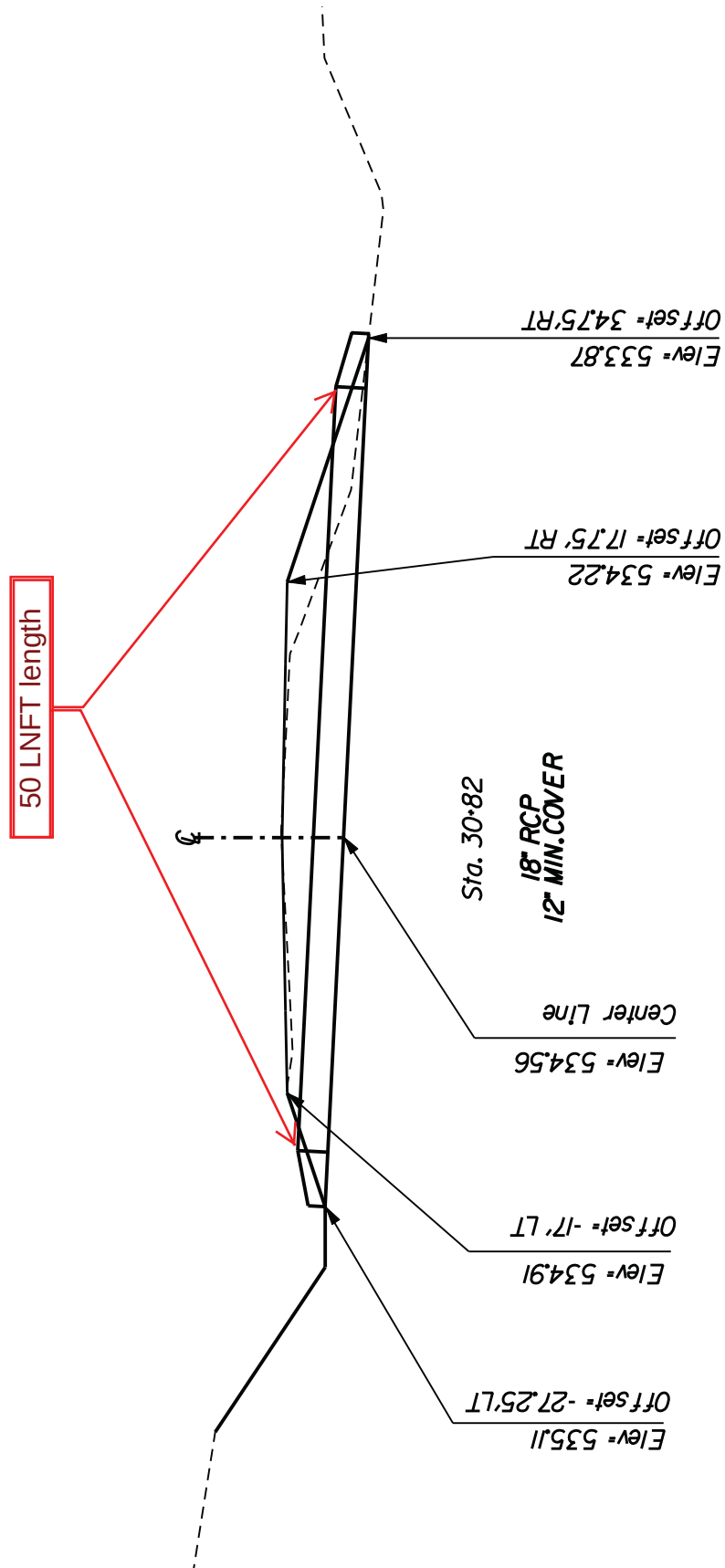
Item No.	Description	Quantity	Unit	Ent. in Sum Book	
				Page No.	Date
60201-0600	18-Inch Pipe Culvert (62' total-12' end sections=50' total length)	50	LNFT		
60210-0600	End Section for 18-inch pipe culvert	2	EA		

Computed by: _____ Checked by: _____

Date: _____ Date: _____

culvert.wpf

Project Name: FORT VANCOUVER NATIONAL PARK
 Project Number: WA PRA FVNP 100(1)
 Item No. **60201-0600 18-INCH PIPE CULVERT**
 Field Measurements by: John Smith 7/06/2013



Projects: [WA PRA FVNP 100\(1\)](#)... [Constructions: Progress Pay Periods](#) [1 INS: Pay Note](#)

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Project Info Design **Construction** Account Team
 Core Contract Status **Progress Payment** SubContractors Labor/Equipment Daily Reports Daily Diary Claims Contract Modifications
 Grand Summary **Pay Notes** Pay Note Summaries Non CM Pay Items Period Account Progress Payment Tracking

Project Number: WA PRA FVNP 100(1)

Project Name: FORT VANCOUVER NATIONAL PARK

Contract Number: DTFH-C2014

States: WA

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* indicates a required field

FHWA Pay Note

Pay Note: 27 INS

Pay Item Number:

60201-0800

Line Number:

A 0620

Period: 1 INS

Pay Item Type:

Normal pay item

Contract Mod #:

Description: 24-INCH PIPE CULVERT

Contract Quantities					Revised Quantities		Probables		
Acct	Quantity	Unit Price	Unit	Amount	Qty	Amount	Quantity	Amount	% Over / Under
	250.0	\$75.00	LNFT	\$18,750.00	250.0	\$18,750.00	250.0	\$18,750.00	0.00
CON01	250.0	\$75.00	LNFT	\$18,750.00	250.0	\$18,750.00	250.0	\$18,750.00	0.00

Pay Note Date*:

05-03-2013

[select](#)

[clear](#)

Entries:

Pay Note Entry #1

Work Date Start Date*:

05-02-2013

[select](#)

[clear](#)

Work Date End Date*:

05-02-2013

[select](#)

[clear](#)

Location/Description*:

B *I* U [List](#) [Table](#) [Link](#) [Image](#) [Video](#) [Audio](#) [Print](#)

Culvert installed at STA 20+12 RT: 24" pipe culvert = 12.50 ft

CON01 Main account Quantity:

12.5

LNFT

Remarks/Calculations:

B *I* U [List](#) [Table](#) [Link](#) [Image](#) [Video](#) [Audio](#) [Print](#)

*See attached documentation:

hand drawn cross section

[Delete](#)

[Add Entry](#)

CON01 Main account Quantity: 12.5

Total Pay Note Quantity: 12.5 LNFT

Total Production Days:

1

Production Rate:

12.5 LNFT/Day

Measured By*:

Bob COE

FHWA Inspector:

Contractor Inspector:

Interim/Final*:

☒ Interim

☐ Final

Supporting Documentation:

[Add Document](#)

Reference:

B *I* U [List](#) [Table](#) [Link](#) [Image](#) [Video](#) [Audio](#) [Print](#)

[Save & Close](#) [Save](#) [Delete](#) [Cancel](#) [Cancel & Close](#) [Submit To PE](#) [Print Preview](#) [Print Preview \(Contractor Version\)](#)

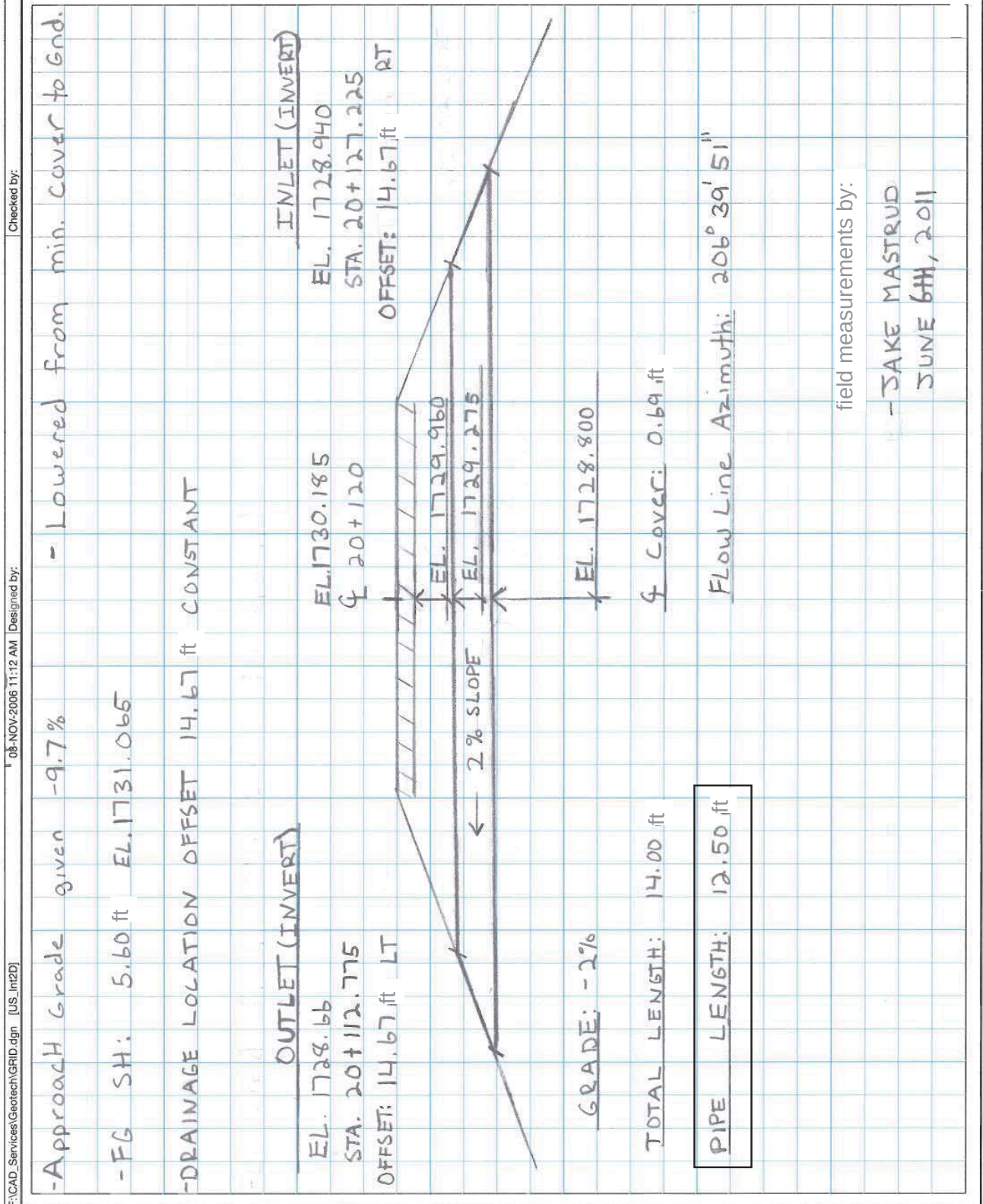
Project Name: FORT VANCOUVER NATIONAL PARK

Project Number: WA PRA FVNP 100(1)

Item No. **60201-0800** 24-inch Pipe Culvert

Station: 20+12 RT

Measurements and Calculations by: Jake Mastrud 6/06/2011



Projects: [WA PRA FVNP 100\(1...](#) Constructions: [Progress Pay Periods](#) [1 INS: Pay Note](#) [Return To Pro](#)

Project Info Design **Construction** Account Team

Core Contract Status **Progress Payment** SubContractors Labor/Equipment Daily Reports Daily Diary Claims Contract Modifications

Grand Summary **Pay Notes** Pay Note Summaries Non CM Pay Items Period Account Progress Payment Tracking

Project Number: WA PRA FVNP 100(1) Project Name: FORT VANCOUVER NATIONAL PARK Contract Number: DTFH-C2014 States: WA

Save & Close Save Delete Cancel Cancel & Close Submit To PE Print Preview Print Preview (Contractor Version) * indicates a required field

FHWA Pay Note

Pay Note: 13 INS Pay Item Number: 60201-1000 Line Number: A 0640
 Period: 1 INS Pay Item Type: Normal pay item Contract Mod #:
 Description: 36-INCH PIPE CULVERT

Acct	Contract Quantities				Revised Quantities		Probables		% Over / Under
	Quantity	Unit Price	Unit	Amount	Qty	Amount	Quantity	Amount	
	200.0				200.0	\$17,000.00	200.0	\$17,000.00	0.00
CON01	200.0	\$85.00	LNFT	\$17,000.00	200.0	\$17,000.00	200.0	\$17,000.00	0.00

Pay Note Date*: 03-19-2014 select clear

Entries:

Pay Note Entry #1

Work Date Start Date*: 03-18-2014 select clear

Work Date End Date*: 03-18-2014 select clear

Location/Description*:
 36 inch pipe installed at 243+08.54
 Pipe Length = 68.29' (excluding end sections)

CON01 Main account Quantity: 68.3 LNFT

Remarks/Calculations:
 *See attached as built drawing

Delete

Add Entry

CON01 Main account Quantity: 68.3

Total Pay Note Quantity: 68.3 LNFT

Total Production Days: 1

Production Rate: 68.3 LNFT/Day

Measured By*: Bob COE

FHWA Inspector:

Contractor Inspector:

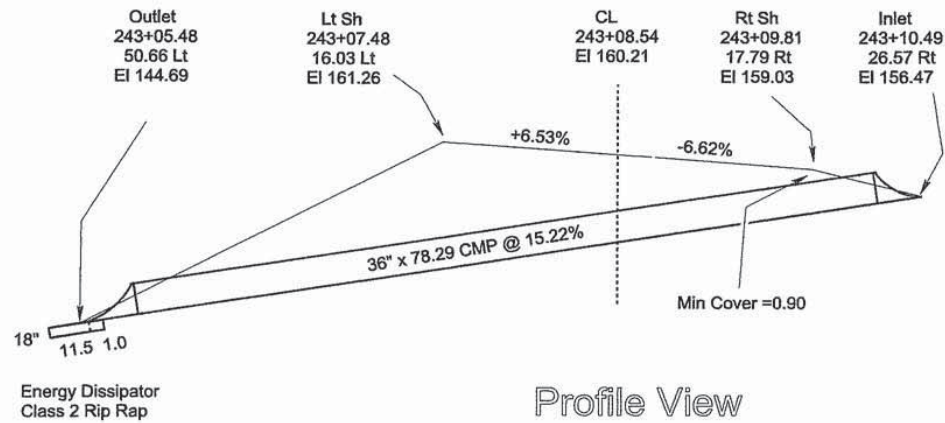
Interim/Final*: ☒ Interim ☐ Final

Supporting Documentation: File Name: 602_36in_Example.pdf
 Delete
 Add Document

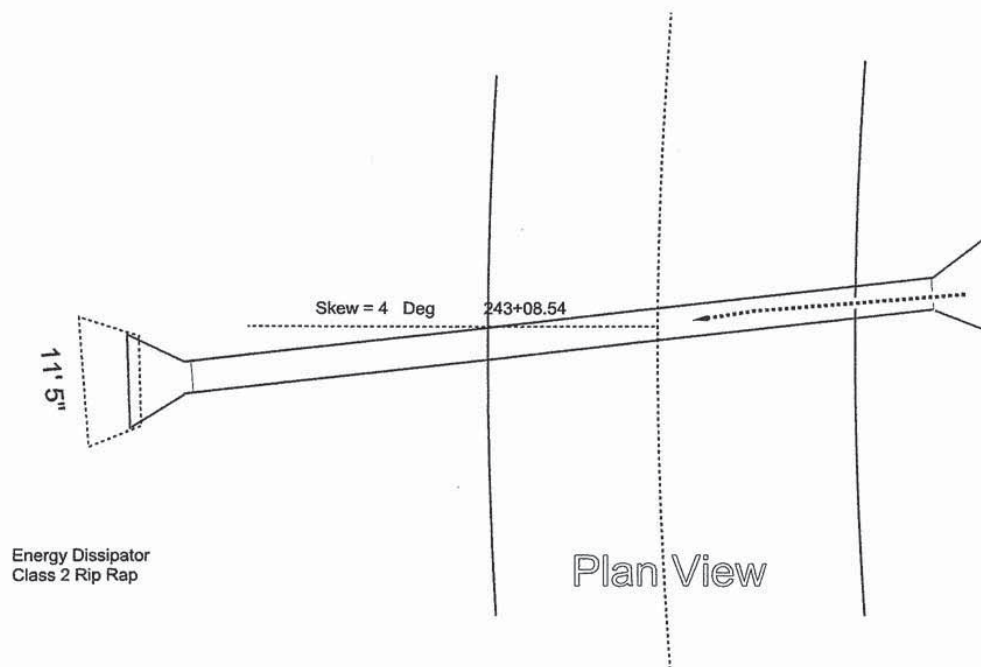
Reference:

Save & Close Save Delete Cancel Cancel & Close Submit To PE Print Preview Print Preview (Contractor Version)

Asbuilt 36" x 78.29 CMP @ 243+08.54



Profile View

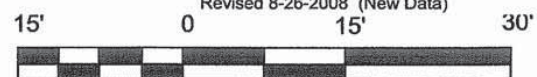


Plan View

Notes:

1. 78.29 CMP includes End Sections @ 5' Each
2. 1 Energy Dissipator
3. Template = Subgrade Elevations

Submitted By: _____
 Drawn By: DM
 8-10-2008
 Revised 8-26-2008 (New Data)



Projects: [WA PRA FVNP 100\(1...](#) Constructions: [Progress Pay Periods](#) 1 INS: [Pay Note](#)

[Return To Pr](#)

Project Info Design **Construction** Account Team

Core Contract Status **Progress Payment** SubContractors Labor/Equipment Daily Reports Daily Diary Claims Contract Modifications

Grand Summary **Pay Notes** Pay Note Summaries Non CM Pay Items Period Account Progress Payment Tracking

Project Number: WA PRA FVNP 100(1)

Project Name: FORT VANCOUVER NATIONAL PARK

Contract Number: DTFH-C2014

States: WA

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* indicates a required field

FHWA Pay Note

Pay Note: 48 INS

Pay Item Number:

60510-0700

Line Number:

A 0680

Period: 1 INS

Pay Item Type:

Normal pay item

Contract Mod #:

Description: 6-INCH COLLECTOR PIPE

Contract Quantities					Revised Quantities		Probables		
Acct	Quantity	Unit Price	Unit	Amount	Qty	Amount	Quantity	Amount	% Over / Under
	350.0	\$8.00	LNFT	\$2,800.00	350.0	\$2,800.00	350.0	\$2,800.00	0.00
CON01	350.0	\$8.00	LNFT	\$2,800.00	350.0	\$2,800.00	350.0	\$2,800.00	0.00

Pay Note Date*: 09-27-2012 [select](#) [clear](#)

Entries:

Pay Note Entry #1

Work Date Start Date*: 09-26-2012 [select](#) [clear](#)

Work Date End Date*: 09-26-2012 [select](#) [clear](#)

Location/Description*: **B I U** Crew Installed 308 ft of Collector Pipe in the subex area from STA 34+915 to 35+010

CON01 Main account Quantity: 308.0 LNFT

Remarks/Calculations: **B I U** *See supporting sketch documentation

[Delete](#)

[Add Entry](#)

CON01 Main account Quantity: 308.0

Total Pay Note Quantity: 308.0 LNFT

Total Production Days: 1

Production Rate: 308 LNFT/Day

Measured By*: Bob COE

FHWA Inspector:

Contractor Inspector:

Interim/Final*: ☒ Interim ☐ Final

Supporting Documentation: File Name: 60501 Collector Pipe_support.pdf

[Delete](#)

[Add Document](#)

Reference:

B I U

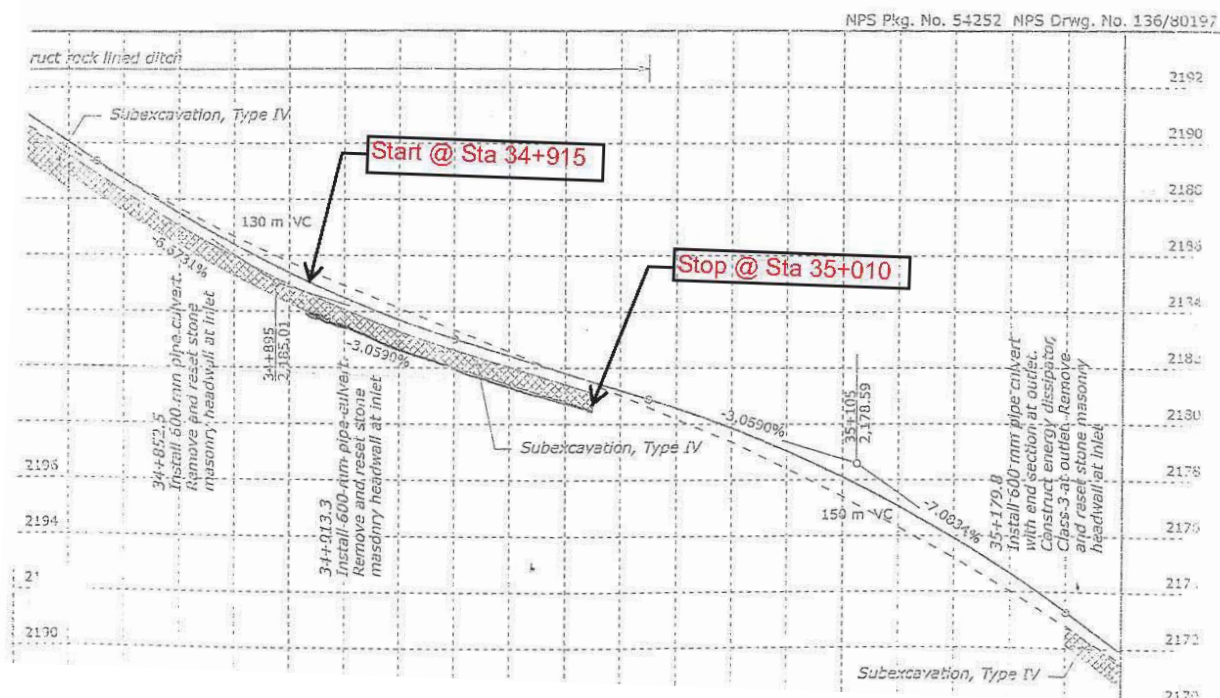
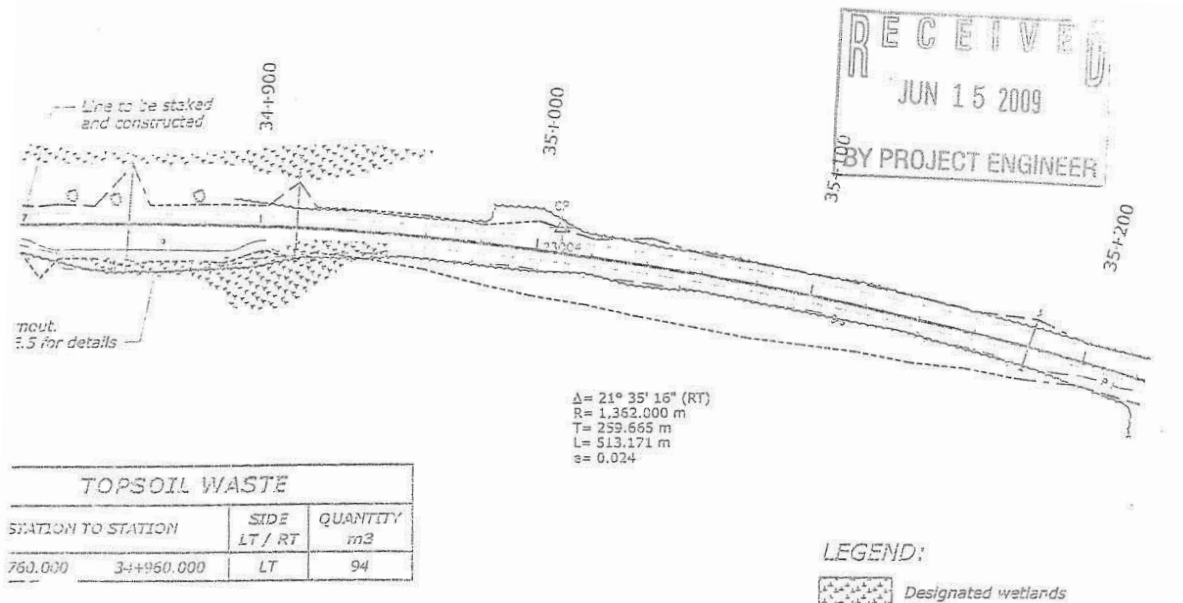
[Save & Close](#) [Save](#) [Delete](#) [Cancel](#) [Cancel & Close](#) [Submit To PE](#) [Print Preview](#) [Print Preview \(Contractor Version\)](#)

Project Name: FORT VANCOUVER NATIONAL PARK

Project Number: WA PRA FVNP 100(1)

Item No. **60510-0700** 6 inch collector pipe

Measured by: John Smith 6/06/2009



Projects: [WA PRA FVNP 100\(1\)](#) Constructions: [Progress Pay Periods](#) [1 INS: Pay Note](#)

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[Core](#) [Contract Status](#) **[Progress Payment](#)** [SubContractors](#) [Labor/Equipment](#) [Daily Reports](#) [Daily Diary](#) [Claims](#) [Contract Modifications](#)
[Grand Summary](#) **[Pay Notes](#)** [Pay Note Summaries](#) [Non CM Pay Items](#) [Period](#) [Account](#) [Progress Payment Tracking](#)

Project Number: WA PRA FVNP 100(1)

Project Name: FORT VANCOUVER NATIONAL PARK

Contract Number: DTFH-C2014

States: WA

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* indicates a required field

FHWA Pay Note

Pay Note: 14 INS Pay Item Number: 60801-0300 Line Number: A 0700
 Period: 1 INS Pay Item Type: Normal pay item Contract Mod #:
 Description: PAVED WATERWAY, TYPE 3

Acct	Contract Quantities				Revised Quantities		Probables		
	Quantity	Unit Price	Unit	Amount	Qty	Amount	Quantity	Amount	% Over / Under
	600		SQYD	\$27,000.00	600	\$27,000.00	600	\$27,000.00	0.00
CON01	600	\$45.00	SQYD	\$27,000.00	600	\$27,000.00	600	\$27,000.00	0.00

Pay Note Date*: 03-31-2014 [select](#) [clear](#)

Entries:

Pay Note Entry #1

Work Date Start Date*:

04-16-2014 [select](#) [clear](#)

Work Date End Date*:

04-23-2014 [select](#) [clear](#)

Location/Description*:

B I U

 STA 78+15 to STA 92+28
 (Length 1413') x (Avg Width 3.4') = 4804.2 SQFT = 533.75 SQYD

CON01 Main account Quantity:

533.8 SQYD

Remarks/Calculations:

B I U

 *See attached spreadsheet and measurement drawing

[Delete](#)

[Add Entry](#)

CON01 Main account Quantity: 533.8

Total Pay Note Quantity: 533.8 SQYD

Total Production Days: 5

Production Rate: 106.76 SQYD/Day

Measured By*: Bob COE

FHWA Inspector:

Contractor Inspector:

Interim/Final*: ☒ Interim ☐ Final

Supporting Documentation:

File Name:

608_Paved_Waterway_type_3_Example.pdf

[Delete](#)

[Add Document](#)

Reference:

B I U

[Save & Close](#) [Save](#) [Delete](#) [Cancel](#) [Cancel & Close](#) [Submit To PE](#) [Print Preview](#) [Print Preview \(Contractor Version\)](#)

Project Name: FORT VANCOUVER NATIONAL PARK

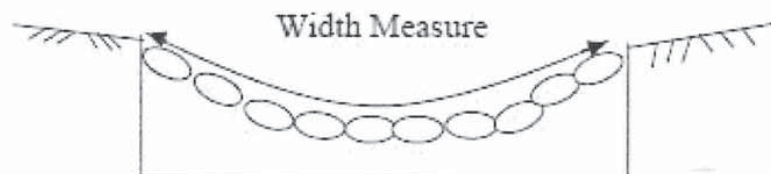
Project Number: WA PRA FVNP 100(1)

Item No. **60801-0300 Paved Waterway, Type 3**

Field Measured by: Fred Smith 7/06/2013

Calculations by: John B. Contractor

DATE	STATION	STATION	WIDTH (ft)	RT. LT.	INSP.
	78+15	79+42	3.5	LT	
	79+42	82+33	3.1	LT	
	82+33	87+68	3.6		
	87+68	92+28	3.4		
		Length	1413	ft	
		Ave. Width	3.4	ft	



Projects: [WA PRA FVNP 100\(1...](#) Constructions: [Progress Pay Periods](#) [1 INS: Pay Note](#)

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Project Info Design **Construction** Account Team

Core Contract Status **Progress Payment** SubContractors Labor/Equipment Daily Reports Daily Diary Claims Contract Modifications

Grand Summary **Pay Notes** Pay Note Summaries Non CM Pay Items Period Account Progress Payment Tracking

Project Number: WA PRA FVNP 100(1) Project Name: FORT VANCOUVER NATIONAL PARK Contract Number: DTFH-C2014 States: WA

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* indicates a required field

FHWA Pay Note

Pay Note: 42 INS Pay Item Number: 61701-1250 Line Number: A 0720
 Period: 1 INS Pay Item Type: Normal pay item Contract Mod #:
 Description: GUARDRAIL SYSTEM G4, TYPE 2, CLASS A WOOD POSTS

	Contract Quantities				Revised Quantities		Probables		
Acct	Quantity	Unit Price	Unit	Amount	Qty	Amount	Quantity	Amount	% Over / Under
	625.0	\$21,875.00	LNFT	\$21,875.00	625.0	\$21,875.00	625.0	\$21,875.00	0.00
CON01	625.0	\$35.00	LNFT	\$21,875.00	625.0	\$21,875.00	625.0	\$21,875.00	0.00

Pay Note Date*: 10-15-2012 [select](#) [clear](#)

Entries:

Pay Note Entry #1

Work Date Start Date*:

10-01-2012 [select](#) [clear](#)

Work Date End Date*:

10-12-2012 [select](#) [clear](#)

Location/Description*:

B I U                                           

Project: FORT VANCOUVER NATIONAL PARK
 Project Number: WA PRA FVNP 100(1)
 Item: **61701-1250 Guardrail System G4**
 Field Measured by: Fred Smith 10/28/2009
 Calculations by: John B. Contractor

GUARDRAIL QUANTITIES				
10/28/2009				
Begin Station	End Station	Side	Item 61701-1250 Guardrail system G4, type 2, class A wood posts (Lnft)	Item 61702-0600 Terminal section, type flared (each)
20+60	23+38	Lt	203.0	2
35+13	37+86	Rt	198.0	2
39+04	45+39	Rt	560.0	2
195+00	198+75	Lt	300.0	2
202+62	206+90	Lt	353.0	2
236+08	239+92	Rt	309.0	2
237+10	240+89	Lt	304.0	2
270+12	272+39	Rt	152.0	2
270+62	272+90	Lt	153.0	2
281+12	283+50	Rt	163.0	2
282+12	284+38	Lt	151.0	2
348+10	350+88	Lt	203.0	2
348+66	350+92	Rt	151.0	2
393+61	396+40	Rt	204.0	2
434+60	437+88	Lt	253.0	2
443+69	444+69	Rt	62.5	1
444+02	444+52	Lt	12.5	1
445+29	446+29	Lt	62.5	1
445+46	445+96	Rt	12.5	1
484+50	486+83	Rt	195.5	2
484+98	486+12	Lt	76.5	1
511+62	514+90	Rt	253.0	2
512+60	516+38	Lt	303.0	2
522+10	526+42	Lt	357.0	2
523+62	525+88	Rt	151.0	2
553+23	557+89	Rt	391.0	2
553+74	558+39	Lt	390.0	2
Total			5924.0 LNFT	49 EA

Projects: WA PRA FVNP 100(1... Constructions: Progress Pay Periods 1 INS: Pay Note

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Project Info	Design	Construction	Account	Team
Core	Contract Status	Progress Payment	SubContractors	Labor/Equipment
			Daily Reports	Daily Diary
			Claims	Contract Modifications
Grand Summary	Pay Notes	Pay Note Summaries	Non CM Pay Items	Period
			Account	Progress Payment Tracking

Project Number: WA PRA FVNP 100(1)

Project Name: FORT VANCOUVER NATIONAL PARK

Contract Number: DTFH-C2014

States: WA

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FHWA Pay Note

Pay Note: 41 INS

Pay Item Number:

61702-0600

Line Number:

A 0740

Period: 1 INS

Pay Item Type:

Normal pay item

Contract Mod #:

Description: TERMINAL SECTION, TYPE FLARED

Acct	Contract Quantities				Revised Quantities		Probables		% Over / Under
	Quantity	Unit Price	Unit	Amount	Qty	Amount	Quantity	Amount	
	22	\$3,000.00	EACH	\$66,000.00	22	\$66,000.00	22	\$66,000.00	0.00
CON01	22	\$3,000.00	EACH	\$66,000.00	22	\$66,000.00	22	\$66,000.00	0.00

Pay Note Date*: 09-24-2013

Entries:

Pay Note Entry #1 Work Date Start Date*: 09-02-2013 select clear Work Date End Date*: 09-23-2013 select clear Location/Description*: B I U Installed terminal sections at locations between STA 20+60 and STA 558+39 Total = 49 each CON01 Main account Quantity: 49 EACH Remarks/Calculations: B I U *See attached quantity documentation for locations Delete Add Entry

CON01 Main account Quantity: 49

Total Pay Note Quantity: 49 EACH

Total Production Days: 1

Production Rate: 49 EACH/Day

Measured By*: Bob COE

FHWA Inspector:

Contractor Inspector:

Interim/Final*: ☐ Interim ☒ Final

Supporting Documentation: File Name: 61701 Guardrail_support.pdf

Reference:

B I U

Save & Close Save Delete Cancel Cancel & Close Submit To PE Print Preview Print Preview (Contractor Version)

Project: FORT VANCOUVER NATIONAL PARK
 Project Number: WA PRA FVNP 100(1)
 Item: **61701-1250 Guardrail System G4**
 Field Measured by: Fred Smith 10/28/2009
 Calculations by: John B. Contractor

GUARDRAIL QUANTITIES				
10/28/2009				
Begin Station	End Station	Side	Item 61701-1250 Guardrail system G4, type 2, class A wood posts (Lnft)	Item 61702-0600 Terminal section, type flared (each)
20+60	23+38	Lt	203.0	2
35+13	37+86	Rt	198.0	2
39+04	45+39	Rt	560.0	2
195+00	198+75	Lt	300.0	2
202+62	206+90	Lt	353.0	2
236+08	239+92	Rt	309.0	2
237+10	240+89	Lt	304.0	2
270+12	272+39	Rt	152.0	2
270+62	272+90	Lt	153.0	2
281+12	283+50	Rt	163.0	2
282+12	284+38	Lt	151.0	2
348+10	350+88	Lt	203.0	2
348+66	350+92	Rt	151.0	2
393+61	396+40	Rt	204.0	2
434+60	437+88	Lt	253.0	2
443+69	444+69	Rt	62.5	1
444+02	444+52	Lt	12.5	1
445+29	446+29	Lt	62.5	1
445+46	445+96	Rt	12.5	1
484+50	486+83	Rt	195.5	2
484+98	486+12	Lt	76.5	1
511+62	514+90	Rt	253.0	2
512+60	516+38	Lt	303.0	2
522+10	526+42	Lt	357.0	2
523+62	525+88	Rt	151.0	2
553+23	557+89	Rt	391.0	2
553+74	558+39	Lt	390.0	2
Total			5924.0 LNFT	49 EA

Projects: [WA PRA FVNP 100\(1...](#) Constructions: [Progress Pay Periods](#) 1 INS: [Pay Note](#)

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Project Info Design **Construction** Account Team

Core Contract Status **Progress Payment** SubContractors Labor/Equipment Daily Reports Daily Diary Claims Contract Modifications

Grand Summary **Pay Notes** Pay Note Summaries Non CM Pay Items Period Account Progress Payment Tracking

Project Number: WA PRA FVNP 100(1)

Project Name: FORT VANCOUVER NATIONAL PARK

Contract Number: DTFH-C2014

States: WA

[Save & Close](#) [Save](#) [Delete](#) [Cancel](#) [Cancel & Close](#) [Submit To PE](#) [Print Preview](#) [Print Preview \(Contractor Version\)](#)

* indicates a required field

FHWA Pay Note

Pay Note: 16 INS

Pay Item Number:

62301-0000

Line Number:

A 0780

Period: 1 INS

Pay Item Type:

Normal pay item

Contract Mod #:

Description: GENERAL LABOR

Acct	Contract Quantities				Revised Quantities		Probables		% Over / Under
	Quantity	Unit Price	Unit	Amount	Qty	Amount	Quantity	Amount	
	100.0	\$150.00	HOURL	\$15,000.00	100.0	\$15,000.00	100.0	\$15,000.00	0.00
CON01	100.0	\$150.00	HOURL	\$15,000.00	100.0	\$15,000.00	100.0	\$15,000.00	0.00

Pay Note Date*: 03-29-2014 [select](#) [clear](#)

Entries:

Pay Note Entry #1

Work Date Start Date*: 03-28-2014 [select](#) [clear](#)

Work Date End Date*: 03-28-2014 [select](#) [clear](#)

Location/Description*: **B I U** 

Hand digging special ditch from 30+50 LT to 33+00 LT: 6.50 Hours

*see Contractor Daily Record for 3/28/2014

CON01 Main account Quantity: 6.50 HOUR

Remarks/Calculations: **B I U** 

[Delete](#)

[Add Entry](#)

CON01 Main account Quantity: 6.5

Total Pay Note Quantity: 6.5 HOUR

Total Production Days: 1

Production Rate: 6.5 HOUR/Day

Measured By*: Bob COE

FHWA Inspector:

Contractor Inspector:

Interim/Final*: ☒ Interim ☐ Final

Supporting Documentation: File Name: Contractor Daily Record 3-28-2014.docx

[Delete](#)

[Add Document](#)

Reference:

B I U 

[Save & Close](#) [Save](#) [Delete](#) [Cancel](#) [Cancel & Close](#) [Submit To PE](#) [Print Preview](#) [Print Preview \(Contractor Version\)](#)

Projects: [WA PRA FVNP 100\(1...](#) Constructions: [Progress Pay Periods](#) 1 INS: [Pay Note](#)

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Project Info Design **Construction** Account Team

Core Contract Status **Progress Payment** SubContractors Labor/Equipment Daily Reports Daily Diary Claims Contract Modifications

Grand Summary **Pay Notes** Pay Note Summaries Non CM Pay Items Period Account Progress Payment Tracking

Project Number: WA PRA FVNP 100(1) Project Name: FORT VANCOUVER NATIONAL PARK Contract Number: DTFH-C2014 States: WA

[Save & Close](#) [Save](#) [Delete](#) [Cancel](#) [Cancel & Close](#) [Submit To PE](#) [Print Preview](#) [Print Preview \(Contractor Version\)](#)

* indicates a required field

FHWA Pay Note

Pay Note: 33 INS Pay Item Number: 62503-0000 Line Number: A 0800
 Period: 1 INS Pay Item Type: Normal pay item Contract Mod #:
 Description: TURF ESTABLISHMENT

Contract Quantities					Revised Quantities		Probables		
Acct	Quantity	Unit Price	Unit	Amount	Qty	Amount	Quantity	Amount	% Over / Under
	15.0	\$2,500.00	SLRY	\$37,500.00	15.0	\$37,500.00	15.0	\$37,500.00	0.00
CON01	15.0	\$2,500.00	SLRY	\$37,500.00	15.0	\$37,500.00	15.0	\$37,500.00	0.00

Pay Note Date*: 10-02-1992 [select](#) [clear](#)

Entries:

Pay Note Entry #1

Work Date Start Date*: 09-28-1992 [select](#) [clear](#)

Work Date End Date*: 09-29-1992 [select](#) [clear](#)

Location/Description*: **B I U**

Seeding from STA 00+35 to STA 16+24
 1000 m^2 = 10 slurry units

CON01 Main account Quantity:
 10.000 SLRY

Remarks/Calculations: **B I U**

*see attached documentation:
 Slurry Units calculations
 Station Placement log

[Delete](#)

[Add Entry](#)

CON01 Main account Quantity: 10.0

Total Pay Note Quantity: 10.0 SLRY

Total Production Days: 1

Production Rate: 10 SLRY/Day

Measured By*: Bob COE

FHWA Inspector:

Contractor Inspector:

Interim/Final*: ☒ Interim ☐ Final

Supporting Documentation: File Name: 625_Hydro_Seeding_Example.pdf
[Delete](#)
[Add Document](#)

Reference: **B I U**

*See attached documentation/calculations

[Save & Close](#) [Save](#) [Delete](#) [Cancel](#) [Cancel & Close](#) [Submit To PE](#) [Print Preview](#) [Print Preview \(Contractor Version\)](#)

STATION	PLAN (m2)	SLURRY UNITS	DATE	INITIALS
0+035				
	944	1	9/28/92	JKD
0+055				
	1002	1	9/28/92	JKD
1+206				
	985	1	9/28/92	JKD
1+278				
	1907	2	9/28/92	JKD
1+322				
	990	1	9/28/92	JKD
1+400				
	1020	1	9/29/92	JKD
1+520				
	1000	1	9/29/92	JKD
1+599				
	995	1	9/29/92	JKD
1+624				
	1000	1	9/29/92	JKD
PAGE TOTAL		10		

1 SLURRY UNIT = 4000 LITERS OF WATER PL				
8.810 kg BULK SEED				
(6.725 kg LIVE SEED)				
22.7 kg 10:20:10 FERTILIZER				
13.6 kg 38:0:0 FERTILIZER				
AND MULCH FOR TRACER:				
16.812 kg PER SLURRY UNIT				
10 SLURRY UNITS PER HECTARE				
10000 square meters = 1 hectare				
10000/10 = 1000 m ² PER SLURRY UNIT				

Projects: [WA PRA FVNP 100\(1\)](#) Constructions: [Progress Pay Periods](#) 1 INS: [Pay Note](#)

[Return To Proj](#)

Project Info Design **Construction** Account Team

Core Contract Status **Progress Payment** SubContractors Labor/Equipment Daily Reports Daily Diary Claims Contract Modifications

Grand Summary **Pay Notes** Pay Note Summaries Non CM Pay Items Period Account Progress Payment Tracking

Project Number: WA PRA FVNP 100(1)

Project Name: FORT VANCOUVER NATIONAL PARK

Contract Number: DTFH-C2014

States: WA

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* indicates a required field

FHWA Pay Note

Pay Note: 18 INS

Pay Item Number:

63316-1000

Line Number:

A 0820

Period: 1 INS

Pay Item Type:

Normal pay item

Contract Mod #:

Description: REMOVE AND RESET SIGN

Contract Quantities					Revised Quantities		Probables		
Acct	Quantity	Unit Price	Unit	Amount	Qty	Amount	Quantity	Amount	% Over / Under
	40.00	\$250.00	EACH	\$10,000.00	40.00	\$10,000.00	40.00	\$10,000.00	0.00
CON01	40.00	\$250.00	EACH	\$10,000.00	40.00	\$10,000.00	40.00	\$10,000.00	0.00

Pay Note Date*: 03-25-2014

[select](#)

[clear](#)

Entries:

Pay Note Entry #1

Work Date Start Date*:

03-24-2014

[select](#)

[clear](#)

Work Date End Date*:

03-25-2014

[select](#)

[clear](#)

Location/Description*:

B *I* U

Signs Removed and Reset = 19 each

*see attached supporting documentation spreadsheet

CON01 Main account Quantity:

19.00

EACH

Remarks/Calculations:

B *I* U

*See attached documentation

[Delete](#)

[Add Entry](#)

CON01 Main account Quantity: 19.00

Total Pay Note Quantity: 19.00 EACH

Total Production Days:

1

Production Rate:

19 EACH/Day

Measured By*:

Bob COE

FHWA Inspector:

Contractor Inspector:

Interim/Final*:

☒ Interim

☐ Final

Supporting Documentation:

File Name:

Remove_Reset_Sign_support.pdf

[Delete](#)

[Add Document](#)

Reference:

B *I* U

[Save & Close](#) [Save](#) [Delete](#) [Cancel](#) [Cancel & Close](#) [Submit To PE](#) [Print Preview](#) [Print Preview \(Contractor Version\)](#)

Project Name: FORT VANCOUVER NATIONAL PARK
 Project Number: WA PRA FVNP 100(1)
 Item No. **63316-1000 Remove and Reset Sign**
 Measured by: John Smith 3/25/2015

Removed/ Reset	Work Completed	Station	Side	Sign
		5+75	RT	Reverse Turn Sign Right
		11+75	RT	Deer Crossing (symbol)
		14+50	LT	Pavement Ends
x	3/24/2014	25+68	RT	Reverse Turn Sign Right
x	3/24/2014	54+95	RT	Lights On for Safety
x	3/24/2014	107+75	RT	MP 1
x	3/24/2014	160+55	RT	MP 2
x	3/24/2014	213+35	RT	MP 3
x	3/24/2014	266+15	RT	MP 4
x	3/24/2014	318+95	RT	MP 5
x	3/24/2014	371+75	RT	MP 6
x	3/24/2014	424+55	RT	MP 7
x	3/25/2014	450+35	RT	MP 8
x	3/25/2014	450+44	LT	National Forest
x	3/25/2014	478+69	RT	MP 9
x	3/25/2014	530+15	RT	MP 10
x	3/25/2014	563+50	RT	Rd #7830
x	3/25/2014	582+95	RT	Rd #7860
x	3/25/2014	605+00	RT	MP 11
x	3/25/2014	607+80	LT	Intersection Ahead
x	3/25/2014	610+64	LT	Lights On For Safety
x	3/25/2014	613+34	LT	Deer Crossing (symbol)

Project Name: FORT VANCOUVER NATIONAL PARK
 Project Number: WA PRA FVNP 100(1)
 Item No. **63401-0300 Pavement Markings, Type B, Solid (Yellow)**
 Field Measurements by: Fred Smith 7/06/2013
 Calculations by: John B. Contractor 7/07/2013

North Park Road	Beginning Station	Ending Station	Length	
	27+900	38+330	10430.00	LNFT
Double Yellow	27+900 to 28+700 ✓	4*800 ✓	3200.00	✓
Single Yellow	28+700 to 28+840 ✓ NB	2*140 ✓	280.00	✓
Single Yellow	29+300 to 29+520 ✓ SB	2*220 ✓	440.00	✓
Double Yellow	29+520 to 31+600 ✓	4*2080 ✓	8320.00	✓
Single Yellow	31+600 to 31+760 ✓ NB	2*160 ✓	320.00	✓
Single Yellow	32+220 to 32+420 ✓ SB	2*200 ✓	400.00	✓
Double Yellow	32+420 to 33+100 ✓	4*680 ✓	2720.00	✓
Single Yellow	33+100 to 33+300 ✓ NB	2*200 ✓	400.00	✓
Single Yellow	34+080 to 34+320 ✓ SB	2*240 ✓	480.00	✓
Double Yellow	34+320 to 35+820 ✓	4*1500 ✓	6000.00	✓
Single Yellow	35+820 to 36+800 ✓ NB	2*980 ✓	1960.00	✓
Double Yellow	36+800 to 37+500 ✓	4*700 ✓	2800.00	✓
Single Yellow	37+500 to 37+700 ✓ SB	2*200 ✓	400.00	✓
Single Yellow	38+220 to 38+330 ✓ NB	2*110 ✓	220.00	✓
			27940.00	LNFT
Gap	27+960 to 27+990 ✓		(28.00)	✓
Gap	28+120 to 28+150 ✓		(27.10)	✓
Gap	32+660 to 32+685 ✓		(23.60)	✓
Gap	32+725 to 32+750 ✓		(18.88)	✓
Gap	32+900 to 32+925 ✓		(24.32)	✓
Gap	32+960 to 32+980 ✓		(23.08)	✓
			(144.98)	LNFT
SOLID YELLOW GRAND TOTAL			27795.02	LNFT

RECEIVED
 JUL 01 2010
 BY PROJECT ENGINEER

John B. Contractor
 7/16/2010

Station	Striping Layout
BOP 27+860	Double Yellow
28+700	Passing zone N bound
28+840	Single skip
29+300	Passing zone S bound
29+520	Double Yellow
31+600	Passing zone N bound
31+760	Single skip
32+220	Passing zone S bound
32+420	Double Yellow
33+100	Passing zone N bound
33+300	Single skip
34+080	Passing zone S bound
34+320	Double Yellow
35+820	Passing zone N bound
36+800	Double Yellow
37+500	Passing zone S bound
37+700	Single skip
38+220	Passing zone N bound
EOP 38+330	Existing markings

Project Name: Sunriver to Mt. Bahelor
 Project Number: OR PFH 244-1(1)
 Item No. **63401-0400 Pavement Markings, Type B, Broken**
 Field Measurements by: Fred Smith 7/06/2013
 Calcs by: John B, Contractor 7/08/2013

Type: ddy= Double Double Yellow, dy= Double Yellow, sd= Solid/Broken, d= Broken, g= Gap							
	Station	Distance	Type	Double Yellow	Single Yellow	Broken	Gap
	27335						
	27375	40	ddy	160			
	27740	365	dy	730			
	27900	160	sd		160	160 ✓	
	42115						
	42195	80	sd		80	80 ✓	
	46150	3955	dy	7910			
	46250	100	g				100
	49585	3335	dy	6670			
	50625						
	50950	325	dy	650			
	51930	51930	d				
	52330	400	sd		400	400 ✓	
	53875	1545	dy	3090			
	54300						
	54525	225	dy	450			
	54796						
	56290	1494	dy	2988			
	56690	400	sd		400	400 ✓	
	56790	100	d			100 ✓	
	57170						
	57315	145	sd		145	145 ✓	
	59990	2675	dy	5350			
	60080	90	g				90
	60330	250	dy	500			
	Colter North	1130	dy	2260			
		Less Radius		-50			
	Colter middle	380	dy	760			
		Less Radius		-112			
	Colter	530	dy	1060			

	South	Less Radius		-52			
	Leeks	861	dy	1722			
	South	Less Radius		-46			
	Leeks						
	North	453	dy	906			
	Totals single coat ✓			34946	1185	1285 ✓	190

[Projects: WA PRA FVNP 100\(1...](#) [Constructions: Progress Pay Periods](#) [1 INS: Pay Note](#) [Return To Pro](#)

Projects: [WA PRA FVNP 100\(1...](#) [Constructions: Progress Pay Periods](#) [1 INS: Pay Note](#)

[Return To Pro](#)

[Project Info](#) [Design](#) [Construction](#) [Account](#) [Team](#)
[Core](#) [Contract Status](#) [Progress Payment](#) [SubContractors](#) [Labor/Equipment](#) [Daily Reports](#) [Daily Diary](#) [Claims](#) [Contract Modifications](#)
[Grand Summary](#) [Pay Notes](#) [Pay Note Summaries](#) [Non CM Pay Items](#) [Period](#) [Account](#) [Progress Payment Tracking](#)

Project Number: WA PRA FVNP 100(1)

Project Name: FORT VANCOUVER NATIONAL PARK

Contract Number: DTFH-C2014

States: WA

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* indicates a required field

FHWA Pay Note

Pay Note: 62 INS

Pay Item Number:

63504-1000

Line Number:

A 0880

Period: 1 INS

Pay Item Type:

Normal pay item

Contract Mod #:

Description: TEMPORARY TRAFFIC CONTROL, CONSTRUCTION SIGN

Contract Quantities					Revised Quantities		Probables		
Acct	Quantity	Unit Price	Unit	Amount	Qty	Amount	Quantity	Amount	% Over / Under
	125.000	\$20.00	SQFT	\$2,500.00	125.000	\$2,500.00	125.000	\$2,500.00	0.00
CON01	125.000	\$20.00	SQFT	\$2,500.00	125.000	\$2,500.00	125.000	\$2,500.00	0.00

Pay Note Date*:

04-19-2014

[select](#)

[clear](#)

Entries:

Pay Note Entry #1

Work Date Start Date*:

04-15-2014

[select](#)

[clear](#)

Work Date End Date*:

04-15-2014

[select](#)

[clear](#)

Location/Description*:

B *I* U [List](#) [Table](#) [Link](#) [Image](#) [PDF](#)

New signs this Period:

2 each Begin Construction (x2) 36"x36" = 18 SQFT
 2 each End Construction (x2) 36"x36" = 18 SQFT
 Total = 36 SQFT

NOTE: +50% of contract complete; therefore pay an additional 25% per Section 635.25(b)

from previous Paynote pay: (25%)(90 SQFT) = 22.5 SQFT
 Current Paynote: (50% + 25%)(36 SQFT) = 27 SQFT

Total for this payment: 49.5 SQFT

Paynote 2 of 3 in Series

CON01 Main account Quantity:

49.5 SQFT

Remarks/Calculations:

B *I* U [List](#) [Table](#) [Link](#) [Image](#) [PDF](#)

[Delete](#)

[Add Entry](#)

CON01 Main account Quantity: 49.500

Total Pay Note Quantity: 49.500 SQFT

Total Production Days:

0

Production Rate:

0.000 SQFT/Day

Measured By*:

Doug J Worley

FHWA Inspector:

Contractor Inspector:

Interim/Final*:

☒ Interim ☐ Final

Supporting Documentation:

[Add Document](#)

Reference:

B *I* U [List](#) [Table](#) [Link](#) [Image](#) [PDF](#)

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Projects: [WA PRA FVNP 100\(1...](#) Constructions: [Progress Pay Periods](#) 1 INS: [Pay Note](#)

[Return To Pro](#)

Project Info Design **Construction** Account Team

Core Contract Status **Progress Payment** SubContractors Labor/Equipment Daily Reports Daily Diary Claims Contract Modifications

Grand Summary **Pay Notes** Pay Note Summaries Non CM Pay Items Period Account Progress Payment Tracking

Project Number: WA PRA FVNP 100(1)

Project Name: FORT VANCOUVER NATIONAL PARK

Contract Number: DTFH-C2014

States: WA

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* indicates a required field

FHWA Pay Note

Pay Note: 63 INS

Pay Item Number:

63504-1000

Line Number:

A 0880

Period: 1 INS

Pay Item Type:

Normal pay item

Contract Mod #:

Description: TEMPORARY TRAFFIC CONTROL, CONSTRUCTION SIGN

Contract Quantities					Revised Quantities		Probables		
Acct	Quantity	Unit Price	Unit	Amount	Qty	Amount	Quantity	Amount	% Over / Under
	125.000	\$20.00	SQFT	\$2,500.00	125.000	\$2,500.00	125.000	\$2,500.00	0.00
CON01	125.000	\$20.00	SQFT	\$2,500.00	125.000	\$2,500.00	125.000	\$2,500.00	0.00

Pay Note Date*: 06-15-2014 [select](#) [clear](#)

Entries:

Pay Note Entry #1

Work Date Start Date*:

06-10-2014 [select](#) [clear](#)

Work Date End Date*:

06-10-2014 [select](#) [clear](#)

Location/Description*:

B I U [Icons]

No new construction sign installation.

NOTE: per Section 635.25(c) pay remaining portion when all TTC devices are removed from the project.

Total installed: 90 + 36 = 126 SQFT
 Total paid to date: 45 SQFT + 49.5 SQFT = 94.5 SQFT
 Remaining balance: 126 SQFT - 94.5 SQFT = 31.5 SQFT

Paynote 3 of 3 in Series

CON01 Main account Quantity:

31.5 SQFT

Remarks/Calculations:

B I U [Icons]

[Delete](#)

[Add Entry](#)

CON01 Main account Quantity: 31.500

Total Pay Note Quantity: 31.500 SQFT

Total Production Days: 0

Production Rate: 0.000 SQFT/Day

Measured By*: Doug J Worley

FHWA Inspector:

Contractor Inspector:

Interim/Final*: ☒ Interim ☐ Final

Supporting Documentation: [Add Document](#)

Reference:

B I U [Icons]

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Projects: [WA PRA FVNP 100\(1...](#) Constructions: [Progress Pay Periods](#) 1 INS: [Pay Note](#)

[Return To Pr](#)

Project Info Design **Construction** Account Team

Core Contract Status **Progress Payment** SubContractors Labor/Equipment Daily Reports Daily Diary Claims Contract Modifications

Grand Summary **Pay Notes** Pay Note Summaries Non CM Pay Items Period Account Progress Payment Tracking

Project Number: WA PRA FVNP 100(1) Project Name: FORT VANCOUVER NATIONAL PARK Contract Number: DTFH-C2014 States: WA

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* indicates a required field

FHWA Pay Note

Pay Note: 45 INS Pay Item Number: 63507-0700 Line Number: A 0900
 Period: 1 INS Pay Item Type: Normal pay item Contract Mod #:
 Description: TEMPORARY TRAFFIC CONTROL, TRAFFIC AND SAFETY SUPERVISOR

Contract Quantities					Revised Quantities		Probables		
Acct	Quantity	Unit Price	Unit	Amount	Qty	Amount	Quantity	Amount	% Over / Under
	60	\$500.00	DAY	\$30,000.00	60	\$30,000.00	60	\$30,000.00	0.00
CON01	60	\$500.00	DAY	\$30,000.00	60	\$30,000.00	60	\$30,000.00	0.00

Pay Note Date*: 09-19-2012 [select](#) [clear](#)

Entries:

Pay Note Entry #1

Work Date Start Date*: 09-15-2012 [select](#) [clear](#)

Work Date End Date*: 09-15-2012 [select](#) [clear](#)

Location/Description*: **B I U** [B](#) [I](#) [U](#) [List](#) [Table](#) [ABC](#)

*See attached TSS Report
 Operations from STA 397+00 to STA 337+00 and from Colter Bay Junction to STA 460+91.9

CON01 Main account Quantity: 1 DAY

Remarks/Calculations: **B I U** [B](#) [I](#) [U](#) [List](#) [Table](#) [ABC](#)

*See attached TSS Report

[Delete](#)

[Add Entry](#)

CON01 Main account Quantity: 1

Total Pay Note Quantity: 1 DAY

Total Production Days: 1

Production Rate: 1 DAY/Day

Measured By*: Bob COE

FHWA Inspector:

Contractor Inspector:

Interim/Final*: ☒ Interim ☐ Final

Supporting Documentation: File Name: 635 Temp Traffic Control, Traffic and Safety Supervisor Example.pdf

[Delete](#)

[Add Document](#)

Reference:

B I U [B](#) [I](#) [U](#) [List](#) [Table](#) [ABC](#)

[Save & Close](#) [Save](#) [Delete](#) [Cancel](#) [Cancel & Close](#) [Submit To PE](#) [Print Preview](#) [Print Preview \(Contractor Version\)](#)

FORM FHWA 17-348 (12/2007)



U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION
Western Federal Lands Highway Division
610 E. 5th St. Vancouver, Washington 98661

FP-03 109.01

- (a) Project Name: _____
Project Number: _____
- (b) Item Number: _____
Item Description: _____
- (c) Date work performed: _____

Date Stamp

Copy Stamp

Daily Record of Inspection & Activities

(f) & (g) Calculations and Supporting Details*:

Name of TCS	Day ☐ S ☐ M ☐ T ☐ W ☐ T ☐ F ☐ S	Temperature High ^{°F} Low ^{°F}	Name of Technician(s)	
Weather ☐ Clear ☐ Pt. Cloudy ☐ Cloudy ☐ Rain ☐ Snow		Wind Conditions ☐ Calm ☐ Light ☐ Strong		Arrival Time
Departure Time				
(d) Location/Today's Operations:				
Evidence Of An Accident	☐ Yes ☐ No	Appropriate Number Of Flaggers Being Utilized		☐ Yes ☐ No
Adequate Buffer Space	☐ Yes ☐ No	Flaggers Equipped With Proper PPE		☐ Yes ☐ No
Is the Work Area Protected	☐ Yes ☐ No	Flaggers Stationed Proper Distance From Hazards		☐ Yes ☐ No
Materials Properly Stored	☐ Yes ☐ No	Flagger Stations Highly Visible		☐ Yes ☐ No
Traffic Delays & Closures Meet Contract Specifications	☐ Yes ☐ No	Advanced Warning Signs Installed Per Contract & MUTCD		☐ Yes ☐ No

	Number Used	Number Stored	All Correct	Missing	Damaged	Adequate	Inadequate
Pilot Vehicle			☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No
Flaggers			☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No
Construction Signs			☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No
Barricades			☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No
Drums			☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No
Vertical Panels			☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No
Tubular Traffic Markers			☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No
Pavement Markings			☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No
Arrow Board			☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No
Variable Message Board			☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No
Message							
Temporary Concrete Barrier			☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No
Other			☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No

Location (Station) Of Missing Or Damaged Devices

Maintenance Corrections Or Replacements

Date Last Cleaned: Cones Lights Signs Barricades

*Attach additional sheets if necessary.

(h) Name of person measuring work: _____

(e) Measured Quantity: 1 Day

(i) ☐ Interim Measurement ☐ Final Measurement

I certify the above measurements and calculations
are correct and the total quantity is subject to
direct payment for the item identified.

(j) Contractor Representative

FHWA Use Only

Verified By:

Construction Inspector

Approved

Entered To Record

Checked By:

FHWA Representative

Date:

Projects: [WA PRA FVNP 100\(1...](#) Constructions: [Progress Pay Periods](#) 1 INS: [Pay Note](#) [Return To Proj](#)

Project Info Design **Construction** Account Team

Core Contract Status **Progress Payment** SubContractors Labor/Equipment Daily Reports Daily Diary Claims Contract Modifications

Grand Summary **Pay Notes** Pay Note Summaries Non CM Pay Items Period Account Progress Payment Tracking

Project Number: WA PRA FVNP 100(1) **Project Name:** FORT VANCOUVER NATIONAL PARK **Contract Number:** DTFH-C2014 **States:** WA

[Save & Close](#) [Save](#) [Delete](#) [Cancel](#) [Cancel & Close](#) [Submit To PE](#) [Print Preview](#) [Print Preview \(Contractor Version\)](#) * indicates a required field

FHWA Pay Note

Pay Note: 43 INS **Pay Item Number:** 63509-1000 **Line Number:** A 0920
Period: 1 INS **Pay Item Type:** Normal pay item **Contract Mod #:**
Description: TEMPORARY TRAFFIC CONTROL, FLAGGER

Acct	Contract Quantities				Revised Quantities		Probables		% Over / Under
	Quantity	Unit Price	Unit	Amount	Qty	Amount	Quantity	Amount	
	500.0	\$53.00	FXHR	\$26,500.00	500.0	\$26,500.00	500.0	\$26,500.00	0.00
CON01	500.0	\$53.00	FXHR	\$26,500.00	500.0	\$26,500.00	500.0	\$26,500.00	0.00

Pay Note Date*: 09-14-2012 [select](#) [clear](#)

Entries:

Pay Note Entry #1

Work Date Start Date*: 09-10-2012 [select](#) [clear](#)

Work Date End Date*: 09-10-2012 [select](#) [clear](#)

Location/Description*:

North End of Project:
F1 @ STA 565+00 = 8 Hours
F2 @ STA 596+00 = 8 Hours

CON01 Main account Quantity:
16.0 FXHR

Remarks/Calculations:

*See attached sketch/flagger locations

[Delete](#)

[Add Entry](#)

CON01 Main account Quantity: 16.0

Total Pay Note Quantity: 16.0 FXHR

Total Production Days: 1

Production Rate: 16.0 FXHR/Day

Measured By*: Bob COE

FHWA Inspector:

Contractor Inspector:

Interim/Final*: ☒ Interim ☐ Final

Supporting Documentation:

File Name:
63509 TTC Flagger_support.pdf

[Delete](#)

[Add Document](#)

Reference:

[Save & Close](#) [Save](#) [Delete](#) [Cancel](#) [Cancel & Close](#) [Submit To PE](#) [Print Preview](#) [Print Preview \(Contractor Version\)](#)

FORM FHWA 17-348 (12/2007)



U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION
Western Federal Lands Highway Division
610 E. 5th St. Vancouver, Washington 98661

FP-03 109.01

Date Stamp

Copy Stamp

(a) Project Name: _____
Project Number: _____
(b) Item Number: 63509
Item Description: Temporary Traffic Control, Flagger
(c) Date work performed: _____

Daily Record Of Miscellaneous Items

(d) & (f) Locations and Calculations*:

Advanced Warning Signs Installed Per Contract & MUTCD

☒ Yes ☐ No

Flaggers Equipped With Two-Way Radio Communication Equipment When Out Of Sight From Each Other

☒ Yes ☐ No

Flagger Name	Station	Start	Stop	Total Hours
Jane Doe	565+00	0700	1530	8.0
Sally Dowright	596+00	0700	1530	8.0
			Total	16.0
				Hrs

(g) Supporting Sketch and Details

TSS rotated through flaggers to provide ½ hour lunch breaks.

*Attach additional sheets if necessary.

(e) Measured Quantity:

16.0

Hrs

(h) Name of person measuring work: _____

(i) ☒ Interim Measurement ☐ Final Measurement

I certify the above measurements and calculations
are correct and the total quantity is subject to
direct payment for the item identified.

(j) Contractor Representative _____

FHWA Use Only

Verified By: _____

Construction Inspector _____

Approved _____

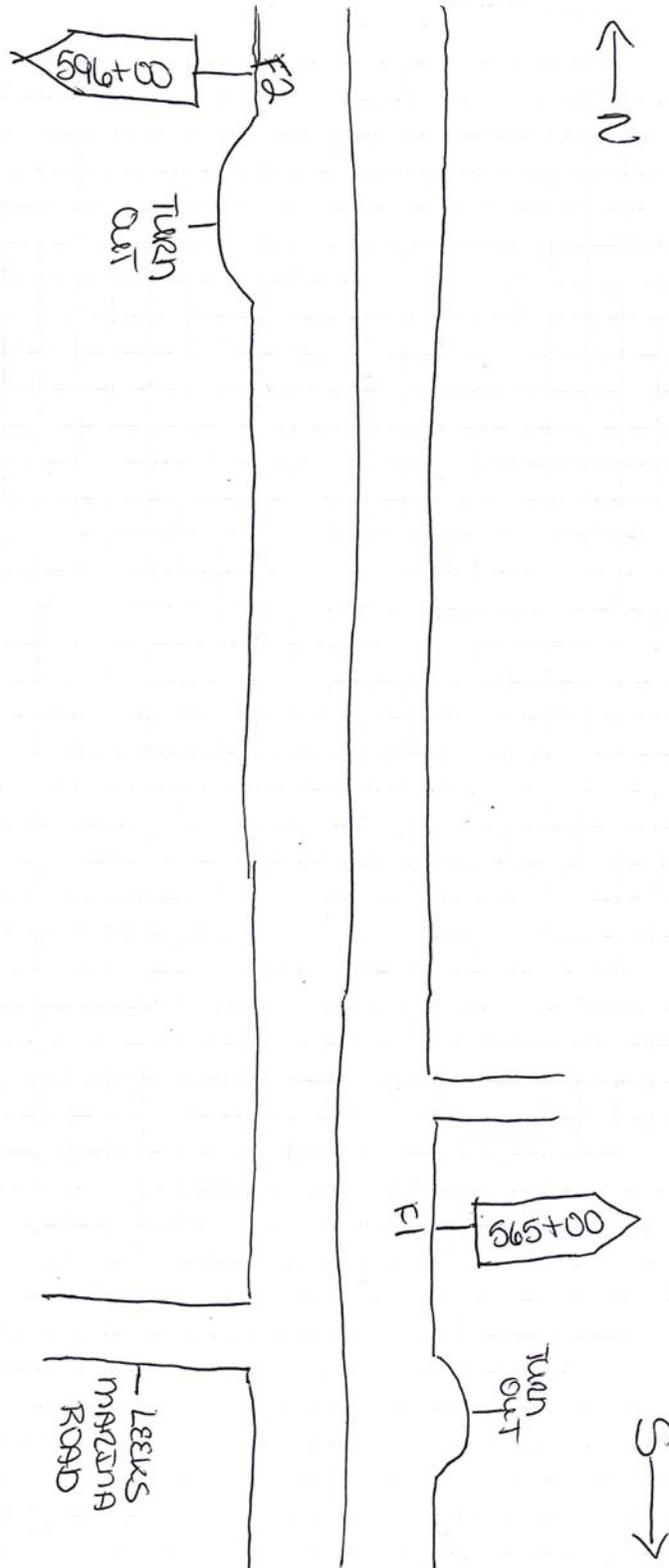
FHWA Representative _____

Entered To Record

Checked By: _____

Date: _____

Project: FORT VANCOUVER NATIONAL PARK
Project Number: WA PRA FVNP 100(1)
Item: **63509 Temporary Traffic Control, Flagger**
Date: 9/10/2012
Shoulder Reconstruction Flagger Layout



RECEIVED
SEP 14 2012
BY PROJECT ENGINEER

Appendices

A. Guidelines for Partial Payment _____	Page A-1
B. Haul Vehicle Volume Calculations _____	Page B-1
C. Water Truck Volume Calculations _____	Page C-1
D. Volume Correction Factors for Asphalt _____	Page D-1
E. Reinforcing Steel Weights and Marks _____	Page E-1
F. Pile Driving Example _____	Page F-1
G. Metric Conversion Factors – General _____	Page G-1
H. Example of Contractor's Invoice and Support Data _____	Page H-1
I. Slope Stake Notes & Cross Section Examples, Including Culvert Staking__	Page I-1

Appendix A

APPENDIX 'A'

Guidelines for percentage payments for partially complete work

<u>Description</u>	<u>Allowance (Cumulative)</u>
Clearing and Grubbing	
• Felled and slashed	35
• Bucked and piled (slashings, brush and logs)	60
• Grubbed	75
• Burned or chipped and removed	98
• Substantially complete including cleanup	100
Excavation and Embankment	
• Pioneered	5
• Drilled	20
• Blasted	35
• Roughed out to grade	85
• Roadbed finished to grade	90
• Slopes seeded	98
• Substantially complete including cleanup	100
Structural Excavation	
• Excavation complete	85
• Backfill complete	98
• Substantially complete including cleanup	100
Aggregate Courses	
• Crushed and stockpiled onsite	50
• Placed on roadway	80
• Spread, compacted and tested	98
• Substantially complete including cleanup	100
Asphalt Pavements	
• Aggregates crushed and stockpiled onsite	50
• Placed, compacted and tested	98
• Substantially complete including cleanup	100

PCC Pavement

• Forms set	35
• Concrete in place	90
• Forms removed and testing complete	98
• Substantially complete including cleanup	100

Concrete Structures

• Falsework erected	10
• Forming complete	20
• Concrete in place	80
• Forms removed	90
• Concrete tested and finished	98
• Substantially complete including cleanup	100

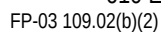
Steel Structures

• Falsework erected	10
• Steel in place	80
• Bolting and welding complete	90
• Painting complete	98
• Substantially complete including cleanup	100

Notes:

- (1) These percentages are typical. They may be adjusted based on a detailed analysis of circumstances on given project.
- (2) Whenever partially complete work entails continuing maintenance, an appropriate percentage should be retained to cover those costs.

Appendix B



U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION
Western Federal Lands Highway Division
610 E. 5th St. Vancouver, Washington 98661

Project Name:

Project Number:

Date: _____

Hauling Vehicle Volume Certification

Truck Number:

Owner: _____

Date Stamp

Copy Stamp

Measurements & Calculations*:

*Attach additional sheets if necessary.

Unit of Measure

Measured Volume

It is mutually agree to by _____ and Western Federal Lands Highway Division,
the above listed vehicle will be paid for at the above measured volume.

Both parties agree to the following condition: Western Federal Lands Highway Division has the right to reduce the volume accordingly, for trucks which are not loaded to the agreed upon volume.

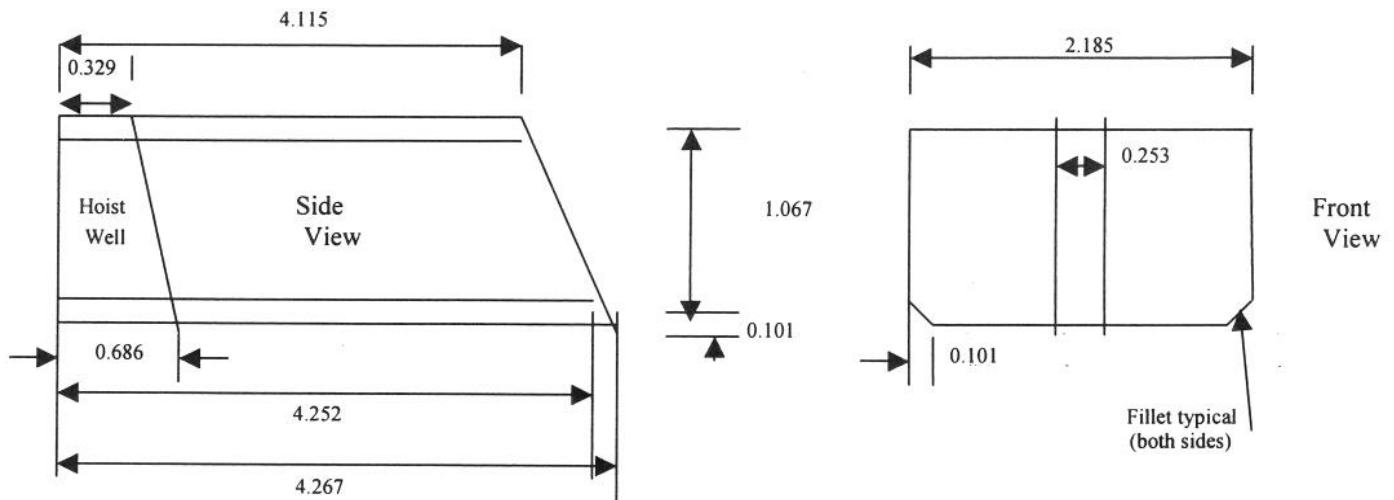
For the Contractor	
Company Name	_____
Signature	_____
Print	_____
Title	_____
Date	_____

For Western Federal Lands Highway Division	
Computed By _____	Date _____
Approved	
Signature _____	
Title _____	
Date _____	

Truck Measurement Example

Truck No. ? (tractor)
Trailer No. ? (belly dump)
License No. XXXX\XXX

Project Name XXXXXXXXXXXXXXX
Project Number XX XXX XXXX (X)



(dimensions are meters unless otherwise noted)

Volume

$$\frac{4.115 + 4.267}{2} \times 2.185 \times 1.067 = 9.771$$

Less Hoist Well

$$\frac{0.686 + 0.329}{2} \times 0.253 \times 1.067 = -0.137 \text{ (minus)}$$

Less Fillets

$$\frac{0.101 \times 0.101}{2} \times \frac{4.252 + 4.267}{2} \times 2 = -0.043 \text{ (minus)}$$

$$\text{Total Volume} = 9.591 \text{ m}^3$$

NOTE

The above computations are for illustration only, and not necessarily part of survey notes. However, to ensure measurements are adequate, the surveyor might make at least rough computations for complicated shapes.

Composed By: _____

Checked By: _____

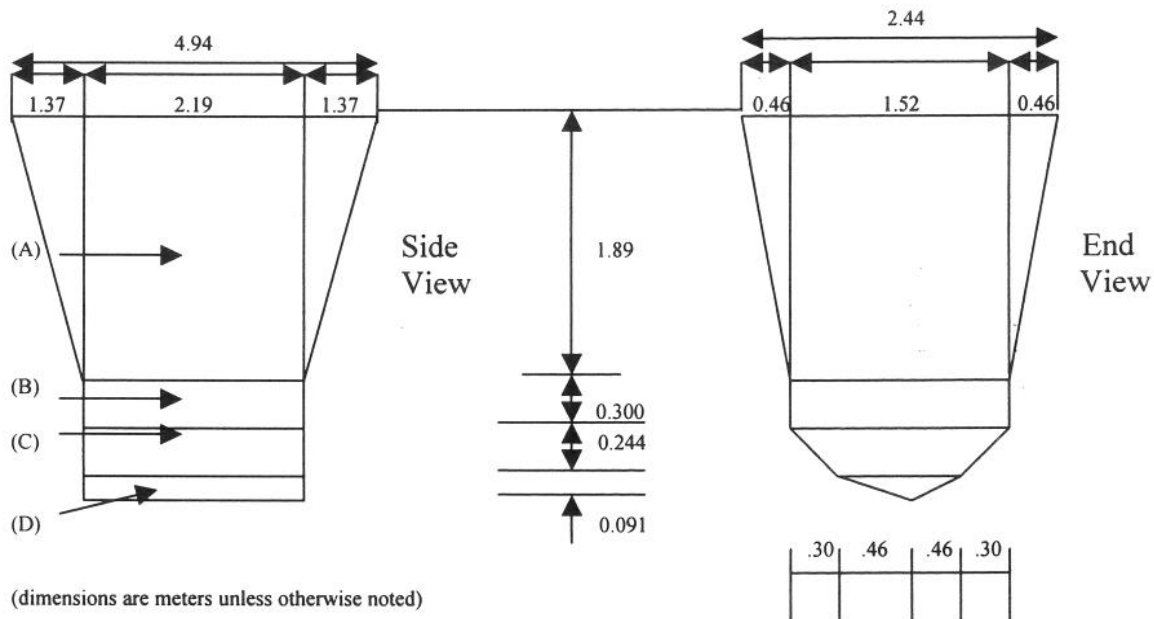
Truck Measurement Example

Truck No. ? (tractor)

Trailer No. ? (belly dump)

Project Name XXXXXXXXXXXXXXXX

Project Number XX XXX XXXX (X)



Volume (A) (Use prismoidal formula, $V = \frac{h}{b} (A_1 + (4A_m + A_2))$)

$$h = 1.89$$

$$A_1 = 4.94 \times 2.44 = 12.05$$

$$A_2 = 2.19 \times 1.52 = 3.33$$

$$A_m = \frac{(4.94 + 2.19) \times (2.44 + 1.52)}{2} = 7.07$$

$$V = \frac{1.89}{b} (12.05 + (4 \times 7.07) + 3.33) = 13.753$$

Volume (B)

$$V = 2.19 \times 1.52 \times 0.30 = 0.999$$

Volume (C)

$$V = 2.19 \times \frac{1.52 + 0.92}{2} \times 0.244 = 0.652$$

Volume (D)

$$V = 2.19 \times \frac{0.92}{2} \times 0.091 = 0.092$$

$$\text{Total Volume} = 15.496 \text{ m}^3$$

Composed By: _____

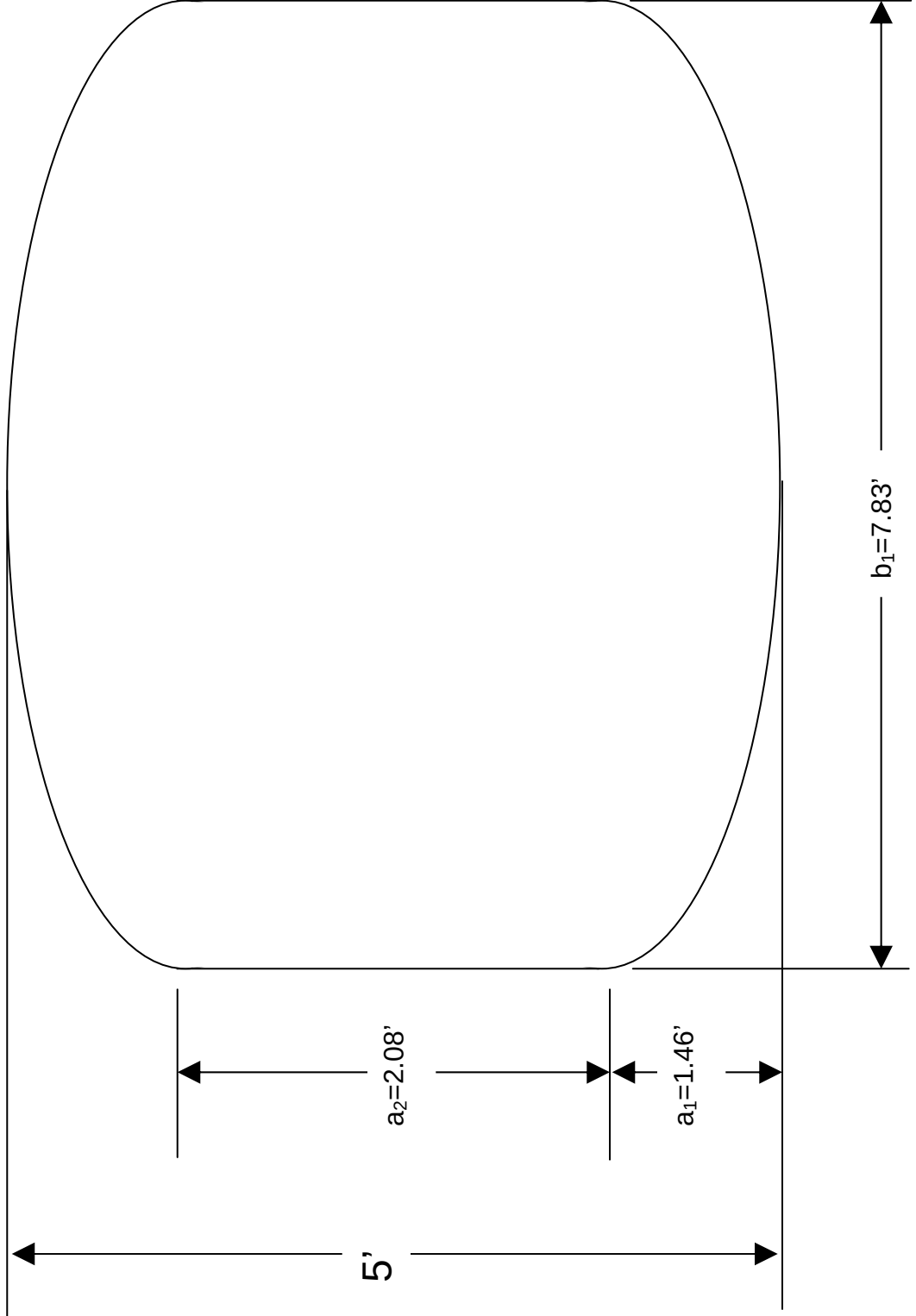
Checked By: _____

Appendix C

Water Truck Dimensions

142

Date _____



$$\begin{aligned} A_1 &= \pi \cdot a_1 \cdot b_1 \\ &= \pi \cdot (1.46) \cdot (7.83/2) \\ &= 17.98 \text{ SF} \end{aligned}$$

$$\begin{aligned} A_2 &= a_2 \cdot b_1 \\ &= (2.08) \cdot (7.83) \\ &= 16.29 \text{ SF} \end{aligned}$$

$$A_1 + A_2 = 34.27 \text{ SF}$$

$$\begin{aligned} \text{Volume} &= \text{Area} \times \text{Length} \\ &= (34.27) (17.25) \\ &= 591.16 \text{ FT}^3 \end{aligned}$$

$$1 \text{ ft}^3 = 7.48 \text{ Gallons}$$

$$\text{Total Volume} = 4421.9 \text{ gal}$$

$$\text{Total Volume} = 4.4 \text{ MGAL}$$

Truck Measure Agreement
Dated _____

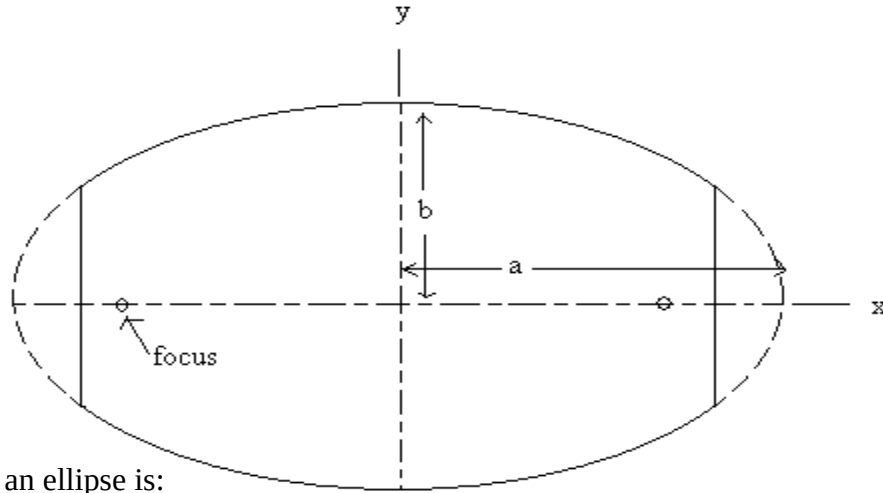
FHWA Representative

Contractor Representative

Water truck # 143 Volume Calculation

The cross section of the water tank was determined to be an ellipse with both ends of the major axes cut off vertically.

The foci were determined by taping two ends of a string to the tank such that a triangle could be formed at any point on the tank edge using a third point on the span of the string. The locations of the two string ends where this occurs are the locations of the foci.



The equation of an ellipse is:

$$\frac{(x-h)^2}{a^2} + \frac{(y-k)^2}{b^2} = 1, \text{ point } (h,k) \text{ represents the center of the ellipse } (0,0)$$

$$\therefore \text{Through manipulation: } y = \pm b\sqrt{1 - x^2/a^2}$$

The area of the portion of the ellipse that represents the cross section of the tank can be expressed as:

$$A = \int_{x_1}^{x_2} \int_{y=-b\sqrt{1-x^2/a^2}}^{y=b\sqrt{1-x^2/a^2}} dy dx, \text{ and } |-x_1| = x_2, \therefore A = 4b \int_0^{x_2} \left(1 - x^2/a^2\right)^{\frac{1}{2}} dx$$

TI 89 integration was used w/ measured values of $a = 1.330\text{m}$, $b = 0.765\text{m}$, $x_2 = 1.230\text{m}$

$$A = 3.12 \text{ m}^2$$

The tank length was measured to be 4.67m

$$\therefore \nabla = A \times L = 3.12 \times 4.67 = \mathbf{14.57\text{m}^3} = \mathbf{3846.5\text{gallons}}$$

Appendix D

TEMPERATURE-VOLUME CORRECTIONS FOR ASPHALTIC MATERIALS (CUSTOMARY UNITS)

GROUP 0 – SPECIFIC GRAVITY AT 60°F OF 0.850 TO 0.966

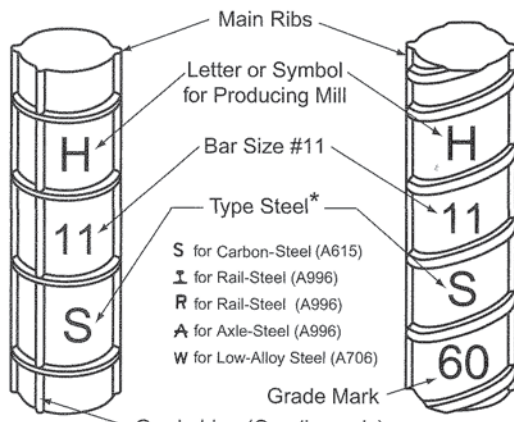
LEGEND: t = Observed Temperature in Degrees Fahrenheit

M = Multiplier for Correcting Oil Volumes to the Basis of 60°F

t	M	t	M	t	M	t	M	t	M
0	1.0241	50	1.0040	100	0.9842	150	0.9647	200	0.9456
1	1.0237	51	1.0036	101	0.9838	151	0.9643	201	0.9452
2	1.0233	52	1.0032	102	0.9834	152	0.9639	202	0.9448
3	1.0229	53	1.0028	103	0.9830	153	0.9635	203	0.9444
4	1.0225	54	1.0024	104	0.9826	154	0.9632	204	0.9441
5	1.0221	55	1.0020	105	0.9822	155	0.9628	205	0.9437
6	1.0217	56	1.0016	106	0.9818	156	0.9624	206	0.9433
7	1.0213	57	1.0012	107	0.9814	157	0.9620	207	0.9429
8	1.0209	58	1.0008	108	0.9810	158	0.9616	208	0.9425
9	1.0205	59	1.0004	109	0.9806	159	0.9612	209	0.9422
10	1.0201	60	1.0000	110	0.9803	160	0.9609	210	0.9418
11	1.0197	61	0.9996	111	0.9799	161	0.9605	211	0.9414
12	1.0193	62	0.9992	112	0.9795	162	0.9601	212	0.9410
13	1.0189	63	0.9988	113	0.9791	163	0.9597	213	0.9407
14	1.0185	64	0.9984	114	0.9787	164	0.9593	214	0.9403
15	1.0181	65	0.9980	115	0.9783	165	0.9589	215	0.9399
16	1.0177	66	0.9976	116	0.9779	166	0.9585	216	0.9395
17	1.0173	67	0.9972	117	0.9775	167	0.9582	217	0.9391
18	1.0168	68	0.9968	118	0.9771	168	0.9578	218	0.9388
19	1.0164	69	0.9964	119	0.9767	169	0.9574	219	0.9384
20	1.0160	70	0.9960	120	0.9763	170	0.9570	220	0.9380
21	1.0156	71	0.9956	121	0.9760	171	0.9566	221	0.9376
22	1.0152	72	0.9952	122	0.9756	172	0.9562	222	0.9373
23	1.0148	73	0.9948	123	0.9752	173	0.9559	223	0.9369
24	1.0144	74	0.9944	124	0.9748	174	0.9555	224	0.9365
25	1.0140	75	0.9940	125	0.9744	175	0.9551	225	0.9361
26	1.0136	76	0.9936	126	0.9740	176	0.9547	226	0.9358
27	1.0132	77	0.9932	127	0.9736	177	0.9543	227	0.9354
28	1.0128	78	0.9929	128	0.9732	178	0.9539	228	0.9350
29	1.0124	79	0.9925	129	0.9728	179	0.9536	229	0.9346
30	1.0120	80	0.9921	130	0.9725	180	0.9532	230	0.9343
31	1.0116	81	0.9917	131	0.9721	181	0.9528	231	0.9339
32	1.0112	82	0.9913	132	0.9717	182	0.9524	232	0.9335
33	1.0108	83	0.9909	133	0.9713	183	0.9520	233	0.9331
34	1.0104	84	0.9905	134	0.9709	184	0.9517	234	0.9328
35	1.0100	85	0.9901	135	0.9705	185	0.9513	235	0.9324
36	1.0096	86	0.9897	136	0.9701	186	0.9509	236	0.9320
37	1.0092	87	0.9893	137	0.9697	187	0.9505	237	0.9316
38	1.0088	88	0.9889	138	0.9693	188	0.9501	238	0.9313
39	1.0084	89	0.9885	139	0.9690	189	0.9498	239	0.9309
40	1.0080	90	0.9881	140	0.9686	190	0.9494	240	0.9305
41	1.0076	91	0.9877	141	0.9682	191	0.9490	241	0.9301
42	1.0072	92	0.9873	142	0.9678	192	0.9486	242	0.9298
43	1.0068	93	0.9869	143	0.9674	193	0.9482	243	0.9294
44	1.0064	94	0.9865	144	0.9670	194	0.9478	244	0.9290
45	1.0060	95	0.9861	145	0.9666	195	0.9475	245	0.9286
46	1.0056	96	0.9857	146	0.9662	196	0.9471	246	0.9283
47	1.0052	97	0.9854	147	0.9659	197	0.9467	247	0.9279
48	1.0048	98	0.9850	148	0.9655	198	0.9463	248	0.9275
49	1.0044	99	0.9846	149	0.9651	199	0.9460	249	0.9272

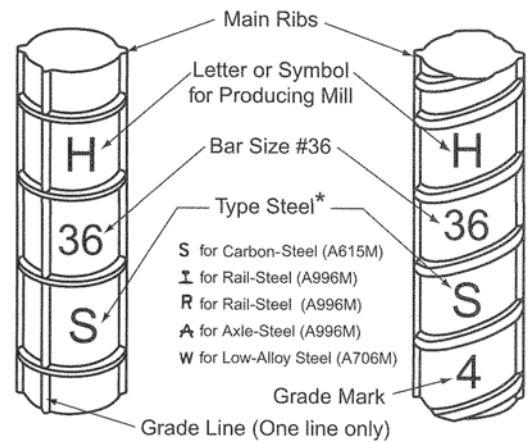
Appendix E

MATERIAL SPECIFICATIONS FOR REINFORCING BARS



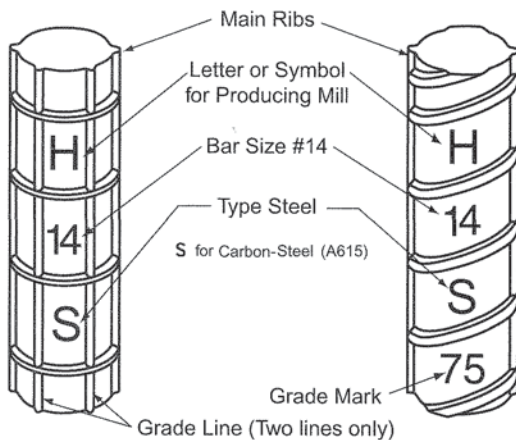
*Bars marked with an S and W meet both A615 and A706

GRADE 60

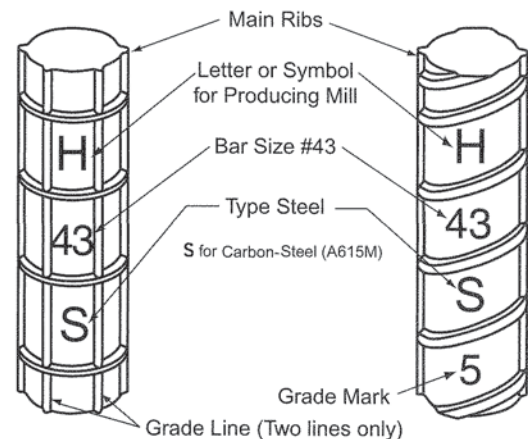


*Bars marked with an S and W meet both A615M and A706M

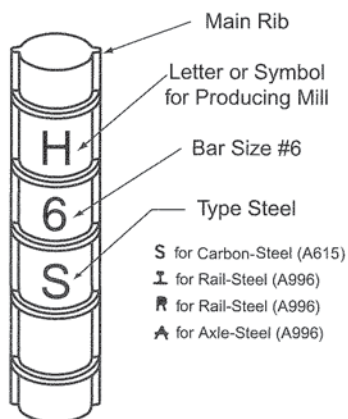
GRADE 420



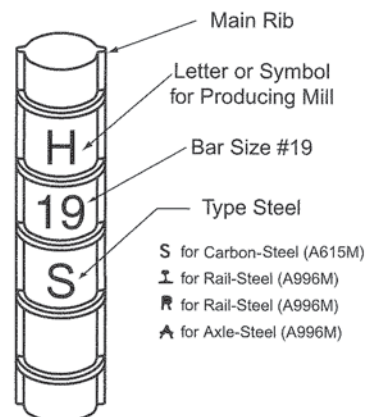
GRADE 75



GRADE 520



GRADE 40 AND 50



GRADE 280 AND 350

MATERIAL SPECIFICATIONS FOR REINFORCING BARS

ASTM SPECIFICATIONS – BAR SIZES, GRADES, TENSILE AND BENDING REQUIREMENTS

Type of Steel and ASTM Specification	Bar Sizes	Grade	Minimum Yield Strength, psi [MPa]	Minimum Tensile Strength, psi [MPa]	Minimum Percentage Elongation in 8 in. [203.2 mm]	Bend Test Pin Diameter (d = nominal diameter of bar)
Carbon-Steel A615/A615M	#3 - #6 [#10 - #19]	40 [280]	40,000 [280]	60,000 [420]	#3 [#10]11 #4, #5, #6 [#13, #16, #19] 12	#3, #4, #5 [#10, #13, #16] ... $.3\frac{1}{2}d$ #6 [#19] 5d
	#3 - #18 [#10 - #57]	60 [420]	60,000 [420]	90,000 [620]	#3, #4, #5, #6 [#10, #13, #16, #19]9 #7, #8 [#22, #25]8 #9, #10, #11, #14, #18 [#29, #32, #36, #43, #57]7	#3, #4, #5 [#10, #13, #16] ... $.3\frac{1}{2}d$ #6, #7, #8 [#19, #22, #25]5d #9, #10, #11 [#29, #32, #36]7d #14, #18 (90°) [#43, #57 (90°)]9d
	#3 - #18 [#10 - #57]	75 [520]	75,000 [520]	100,000 [690]	#3, #4, #5, #6, #7, #8 [#10, #13, #16, #19, #22, #25]7 #9, #10, #11, #14, #18 [#29, #32, #36, #43, #57]6	#3, #4, #5, #6, #7, #8 [#10, #13, #16, #19, #22, #25]5d #9, #10, #11 [#29, #32, #36]7d #14, #18 (90°) [#43, #57 (90°)]9d
Low-Alloy Steel A706/A706M	#3 - #18 [#10 - #57]	60 [420]	60,000 [420]	80,000 [550]	#3, #4, #5, #6 [#10, #13, #16, #19]14 #7, #8, #9, #10, #11 [#22, #25, #29, #32, #36]12 #14, #18 [#43, #57]10	#3, #4, #5 [#10, #13, #16]3d #6, #7, #8 [#19, #22, #25]4d #9, #10, #11 [#29, #32, #36]6d #14, #18 [#43, #57]8d
Stainless-Steel A955/A955M	#3 - #6 [#10 - #19]	40 [280]	40,000 [280]	70,000 [500]	#3, #4, #5, #6 [#10, #13, #16, #19]20	#3, #4, #5 [#10, #13, #16] ... $.3\frac{1}{2}d$ #6 [#19] 5d
	#3 - #18 [#10 - #57]	60 [420]	60,000 [420]	90,000 [620]	#3 - #18 [#10 - #57]20	#3, #4, #5 [#10, #13, #16] ... $.3\frac{1}{2}d$ #6, #7, #8 [#19, #22, #25]5d #9, #10, #11 [#29, #32, #36]7d #14, #18 (90°) [#43, #57 (90°)]9d
	#6 - #18 [#19 - #57]	75 [520]	75,000 [520]	100,000 [690]	#6 - #18 [#19 - #57]20	#6, #7, #8 [#19, #22, #25]5d #9, #10, #11 [#29, #32, #36]7d #14, #18 (90°) [#43, #57 (90°)]9d

For low-alloy steel reinforcing bars, ASTM A706/A706M prescribes a maximum yield strength of 78,000 psi [540 MPa] and tensile strength must be 1.25 times the actual yield strength.

Bend tests are 180° except ASTM A615/A615M permits 90° for bar sizes #14 and #18 [#43 and #57].

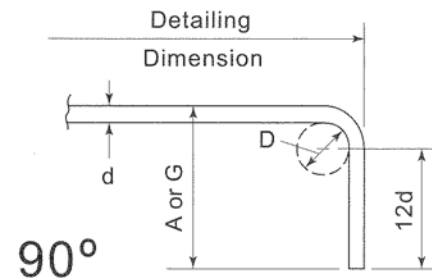
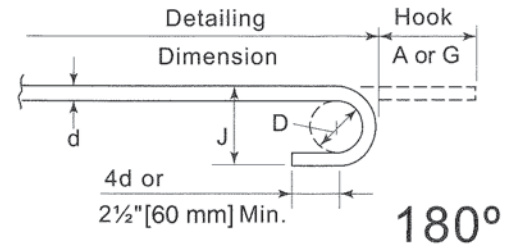
RECOMMENDED INDUSTRY PRACTICE FOR DETAILING CONCRETE REINFORCING STEEL

STANDARD HOOKS

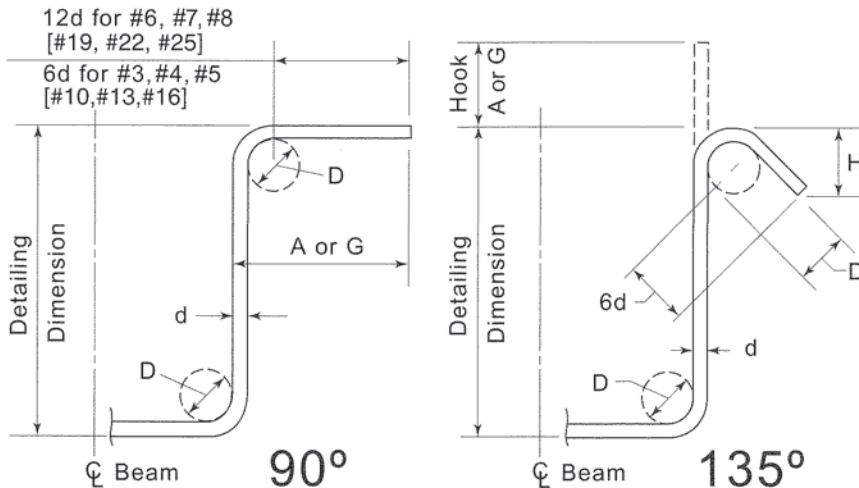
All specific dimension recommended by CRSI below meet minimum requirements of ACI 318 [318M]. Galvanized bars that are bent cold prior to galvanizing may have finished bend diameters larger than those shown below. See ASTM A767/A767M, Section 7.

RECOMMENDED END HOOKS ALL GRADES OF STEEL D = Finished bend diameter

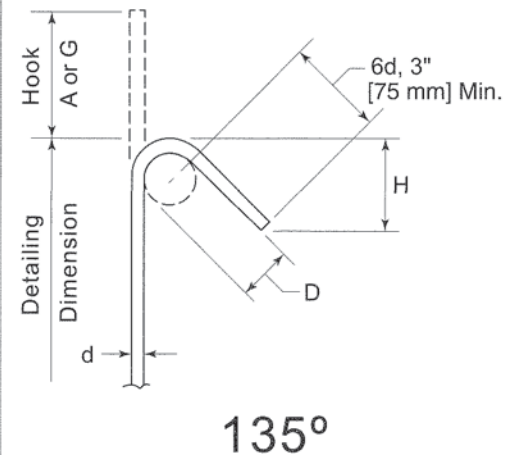
Bar Size	D, in. [mm]	180° Hooks, ft-in. [mm]		90° Hooks, ft-in. [mm]
		A or G	J	A or G
#3 [#10]	2 1/4 [60]	0-5 [125]	0-3 [80]	0-6 [150]
#4 [#13]	3 [80]	0-6 [150]	0-4 [105]	0-8 [200]
#5 [#16]	3 3/4 [95]	0-7 [175]	0-5 [130]	0-10 [250]
#6 [#19]	4 1/2 [115]	0-8 [200]	0-6 [155]	1-0 [300]
#7 [#22]	5 1/4 [135]	0-10 [250]	0-7 [180]	1-2 [375]
#8 [#25]	6 [155]	0-11 [275]	0-8 [205]	1-4 [425]
#9 [#29]	9 1/2 [240]	1-3 [375]	0-11 1/4 [300]	1-7 [475]
#10 [#32]	10 3/4 [275]	1-5 [425]	1-1 1/4 [335]	1-10 [550]
#11 [#36]	12 [305]	1-7 [475]	1-2 3/4 [375]	2-0 [600]
#14 [#43]	18 1/2 [465]	2-3 [675]	1-9 3/4 [550]	2-7 [775]
#18 [#57]	24 [610]	3-0 [925]	2-4 1/2 [725]	3-5 [1050]



90° AND 135° STIRRUP AND TIE HOOKS



135° SEISMIC STIRRUP/TIE HOOKS



STIRRUP (TIES SIMILAR) STIRRUP/TIE HOOK DIMENSIONS ALL GRADES OF STEEL

Bar Size	D, in. [mm]	90° Hook, ft-in. [mm]	135° Hook, in. [mm]	
		Hook A or G	Hook A or G	H (Approx.)
#3 [#10]	1 1/2 [40]	0-4 [105]	4 [105]	2 1/2 [65]
#4 [#13]	2 [50]	0-4 1/2 [115]	4 1/2 [115]	3 [80]
#5 [#16]	2 1/2 [65]	0-6 [155]	5 1/2 [140]	3 3/4 [95]
#6 [#19]	4 1/2 [115]	1-0 [305]	8 [205]	4 1/2 [115]
#7 [#22]	5 1/4 [135]	1-2 [355]	9 [230]	5 1/4 [135]
#8 [#25]	6 [155]	1-4 [410]	10 1/2 [270]	6 [155]

135° SEISMIC STIRRUP/TIE HOOK DIMENSIONS ALL GRADES OF STEEL

Bar Size	D, in. [mm]	135° Hook, in. [mm]	
		Hook A or G	H (Approx.)
#3 [#10]	1 1/2 [40]	4 1/4 [110]	3 [80]
#4 [#13]	2 [50]	4 1/2 [115]	3 [80]
#5 [#16]	2 1/2 [65]	5 1/2 [140]	3 3/4 [95]
#6 [#19]	4 1/2 [115]	8 [205]	4 1/2 [115]
#7 [#22]	5 1/4 [135]	9 [230]	5 1/4 [135]
#8 [#25]	6 [155]	10 1/2 [270]	6 [155]

Appendix F

Submittal 551.03 Pile Driving Equipment

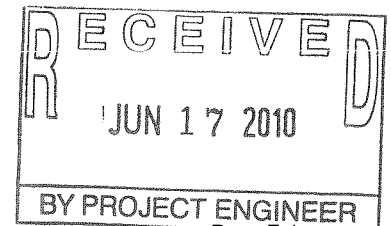
Contractor Information

(a) General

Pile Driving operations will be performed by **Bob's Bridge Builders** of **Riggins, ID.**

The operations will be to pre-bore for the pipe piles to a depth of 3' above the estimated pile tip depth of 25'. The depth will be no more than 22' deep. The pre-bore will be the same diameter or smaller than the 14" pipe pile.

Example

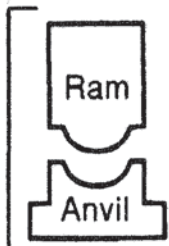


Pile and Driving Equipment Data Form (English)

Note: Use internet to look up manufacture's data for your contractor's equipment

Contract No.: DTFH70-10-C-00204 Structure Name and/or No.: Bridge Over Troubled Water
 Project: Bridge Over Troubled Waters Project
 Piling Driving Contractor: Bob's Bridge Builders
 County: _____

Hammer Components



Hammer

Manufacturer: Ape Model No.: D19-42
 Hammer Type: Diesel Serial No.: 990952
 Manufacturers Maximum Rated Energy: 47,335 (ft-lbs)
 Stroke at Maximum Rated Energy: 10' 2"
 Range in Operating Energy: 22,721 to 47,335 (ft-lbs)
 Range in Operating Stroke: 6 to 10' 3" (ft)
 Ram Weight: 4,190 (lbs) Anvil weight: 749 LBS
 Modifications: None



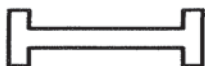
Striker
Plate

Weight: 628 (lbs) Diameter: 22.5 (inches)
 Thickness: 6" (inches)



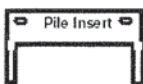
Hammer
Cushion

Material: Monocast MC 904
 Area: 471 (in²)
 Thickness of Plate: 2 (in)
 No. of Plates: 1
 Total Thickness of Hammer Cushion: 2 (in)
 Modulus of Elasticity (E): 285 ksi (psi)
 Coefficient of Restitution (e): .80



Helmet
(Drive
Head)

Weight: 1,076 (lbs) One Piece Helmet?
 Yes ☐ No ☒



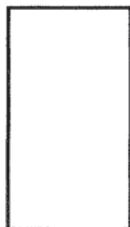
Pile
Insert
(Bonnet)

Weight of Insert 948 (lbs) Total Helmet Weight 2,652 (lbs)



Pile
Cushion

Material: Manufacturer requires only with concrete pile
 Area: _____ (in²) Thickness/Sheet: _____ (in)
 No. of Sheets: _____
 Total Thickness of Pile Cushion: _____ (in)



Pile

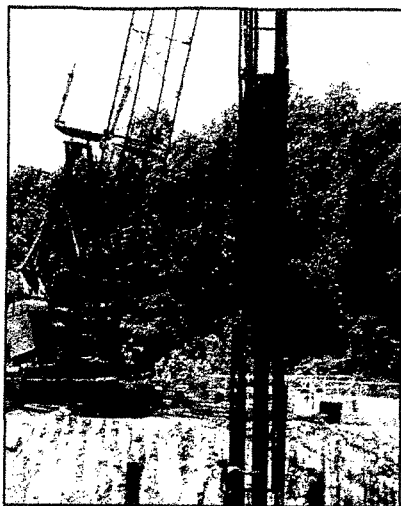
Pile Type: 14" diameter pipe pile
 Wall thickness: 1/2" (in) Taper: NA
 Cross Sectional Area: 21.21 (in²) Weight/foot: 72.09 (lbs)
 Order Length: 30 (feet)
 Ultimate Pile Capacity: _____ (tons)
 Driving Shoe/Closure Plate Description: _____
 Description of Splice (If Applicable): NA

Submitted By: Builder Bob, Bob's Bridge Builders Date: 6/1/2010
 Telephone No.: (208) 541-3704 FAX No.: (208) 541-62564
 E-Mail Address: buildembig@bridgesmail.com

This set up will be used on Bents 1, & 2.

APE Model D19-42 Single Acting Diesel Impact Hammer

D19-42 driving H-beam.



MODEL D19-42 (1.9 metric ton ram)

SERIAL # 990952

SPECIFICATIONS

Stroke at maximum rated energy	135 in (343 cm)
Maximum rated energy (Setting 4)	47,335 ft-lbs (64,177 Nm)
Setting 3	37,868 ft-lbs (51,341 Nm)
Setting 2	31,715 ft-lbs (42,999 Nm)
Minimum rated energy (Setting 1)	22,721 ft-lbs (2,567 Nm)

(Variable throttle allows for lower minimum energy and infinite fuel settings.)

Maximum obtainable stroke	150 in (381 cm)
Maximum obtainable energy	52,362 ft-lbs (70,992 Nm)
Speed (blows per minute)	34-52

WEIGHTS

Ram	4,189 lbs (1,900 kg)
Anvil	749 lbs (340 kg)
Anvil cross sectional area	124.42 sq in (316.02 sq-cm)
Hammer weight (includes trip device)	8,400 lbs (3,810 kg)
Typical operating (weight with DB26 and H-beam insert)	11,052 lbs (5,013 kg)

CAPACITIES

Fuel tank (runs on diesel or bio-diesel)	8.3 gal (31.41 liters)
Oil tank	2.3 gal (8.7 liters)

CONSUMPTION

Diesel or Bio-diesel fuel	1.3 gal/hr (6.6 liters/hr)
Lubrication	.13 gal/hr (.49 liters/hr)
Grease	8 to 10 pumps every 45 minutes of operation time.

Optional Variable Throttle.



STRIKER PLATE FOR DB 26

Weight	628 lbs (284 kg)
Diameter	22.5 in (57.15 cm)
Area	471 sq-in (696 sq-cm)
Thickness	6 inches (15.24 cm)

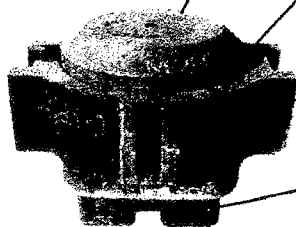
STRIKER PLATE FOR DB 20

Weight	440 lbs (199 kg)
Diameter	17 3/4 in (45.08 cm)
Area	247 sq-in (628 sq-cm)
Thickness	6 inches (15.24 cm)

CUSHION MATERIAL - ONLY REQ'D FOR CONCRETE PILE.

Type	Monocast MC 904
Diameter-DB26	22.5 in (57.15 cm)
Diameter-DB20	17 3/4 in (45.08 cm)
Thickness	2 inches (5.08)
Elastic-modulus	285 ksi (1,965 mpa)
Coeff. of restitution	.8

Drive Base Assembly.



DRIVE CAP

DB 26:	1,076 lbs (488 kg)
DB 20:	750 lbs (340 kg)

INSERT WEIGHT

H-Beam insert for 12" (305 mm) and 14" (355 mm):	948 lbs (430 kg)
Large pipe insert for sizes 12" to 24" diameter:	1,830 lbs (830 kg)

MINIMUM BOX LEAD SIZE/OPERATING LENGTH

Minimum box leader size	8 in x 21 in (3.14 cm x 53.34 cm)
Operating length w/ base and insert	348 in (884 cm)

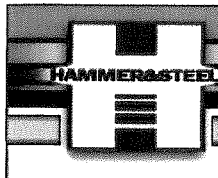


APE Corporate Offices
7032 South 196th
Kent, Washington 98032 USA
(800) 248-8498 & (253) 872-0141
(253) 872-8710 Fax

Visit our WEB site:
www.apevibro.com
e-mail: ape@apevibro.com

Note: All specifications are subject to change without notice 1/07.

Example


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ABI

Delmag

• Diesel Hammers

• Drill Rigs

• Lead Systems

• Attachments

Bay Shore/LoDrill

Bruce

Dawson

PVE

Hammer & Steel

Gerdau Ameristeel

Boart Longyear

Junttan

Scheltzke

Krupp

Gamperl & Hatlapa

GmbH

Steel Dynamics

Solitek

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Bearing Capacity Chart -- Delmag Diesel Pile Hammers

Delmag D19-42 Single Acting Diesel Pile Hammer

Blows	Piston	Hammer	Bearing Capacity (tons) for a Pile Set (blows / in) of :																
Per Min.	Stroke (ft)	Energy (ft-lbs)	2.0	2.5	3.0	3.5	4.0	4.5	5.0	5.5	6.0	6.5	7.0	7.5	8.0	8.5	9.0	9.5	10.0
54	4.65	18670	106	117	127	135	142	148	153	158	163	167	171	174	178	181	184	186	189
53	4.84	19433	109	121	130	138	145	152	157	162	167	171	175	179	182	185	188	191	194
52	5.04	20236	112	124	134	142	149	156	161	167	171	176	180	183	187	190	193	196	199
51	5.25	21079	115	128	138	146	154	160	166	171	176	180	184	188	192	195	198	201	204
50	5.47	21962	119	131	142	150	158	164	170	176	181	185	189	193	197	200	203	206	209
49	5.71	22926	122	135	146	155	162	169	175	181	186	190	194	198	202	206	209	212	215
48	5.97	23970	126	139	150	159	167	174	180	186	191	196	200	204	208	211	215	218	221
47	6.24	25054	130	144	155	164	172	179	185	191	196	201	206	210	214	217	221	224	227
46	6.52	26178	134	148	159	169	177	184	191	196	202	207	211	215	219	223	227	230	233
45	6.83	27422	139	153	164	174	182	190	196	202	208	213	217	222	226	230	233	237	240
44	7.16	28747	143	157	169	179	188	195	202	208	214	219	224	228	232	236	240	243	247
43	7.51	30153	148	162	174	185	193	201	208	214	220	225	230	235	239	243	247	250	254
42	7.88	31638	152	168	180	190	199	207	214	221	227	232	237	242	246	250	254	258	261
41	8.29	33284	158	173	186	196	206	214	221	228	234	239	245	249	254	258	262	266	269
40	8.72	35011	163	179	192	203	212	221	228	235	241	247	252	257	262	266	270	274	277
39	9.19	36898	169	185	198	210	219	228	236	243	249	255	260	265	270	274	278	282	286
38	9.70	38946	175	191	205	217	227	235	243	251	257	263	269	274	279	283	287	292	295
37	10.25	41154	181	198	212	224	234	243	252	259	266	272	278	283	288	292	297	301	305
36	10.84	43523	187	205	220	232	242	252	260	268	275	281	287	292	297	302	307	311	315
35	11.48	46092	194	213	227	240	251	261	269	277	284	291	297	302	308	312	317	322	326

Calculates bearing capacities based upon FHWA modified Gates formula:

$$R_u = 0.5 [1.75 \sqrt{E} (\log 10N) - 100]$$

where

R_u = Driven bearing capacity of the pile in tons

N = Number of hammer blows per inch

E = Energy developed by the hammer per blow in ft-lbs

Company Headquarters

11916 Missouri Bottom Rd.
St. Louis, MO 63042
Ph: 800.325.PILE (7453)
Ph: 314.895.4600
Fx: 314.895.4070

Branch Offices

Benicia, California
Ph: 877.224.3356

Boston, Massachusetts
Ph: 508-419-7374

Green Cove Spring, Florida
Ph: 904.284.6800

Houston, Texas
Ph: 281.852.1136

Kansas City, Kansas
Ph: 913.681.9295

Minneapolis, Minnesota
Ph: 952.469.6060

Example

Appendix G

NOTES ON METRICATION

(Asterisk denotes exact number)

Quantity	To Convert From . . .	To . . .	Multiply By . . .
Length	mile	km	1.609 344*
	yard	m	0.9144*
	foot	m	0.3048*
	foot	mm	304.8*
	inch	mm	25.4*
Area	square mile	km ²	2.589 998
	acre	m ²	4046.873
	acre	ha	0.404 687 3
	square yard	m ²	0.836 127 4*
	square foot	m ²	0.092 903 04*
	square inch	mm ²	645.16*
Volume	acre foot	m ³	1233.489
	cubic yard	m ³	0.764 554 9
	cubic foot	m ³	0.028 316 85
	cubic foot	cm ³	28 316.85
	cubic foot	L	28.316 85
	100 board feet	m ³	0.235 973 7
	gallon	L	3.785 412
	cubic inch	cm ³	16.387 06
	cubic inch	mm ³	16 387.06
Mass	pound	kg	0.453 592 4
	ton (2,000 pounds)	kg	907.184 7
	kip	t	0.453 592 4
Mass/unit length	pound/foot	kg/m	1.488 164
Mass/unit area	pound/foot ²	kg/m ²	4.882 428
Mass density	pound/foot ³	kg/m ³	16.018 46
Force	pound	N	4.448 222
	kip	kN	4.448 222
Force/unit length	pound/foot	N/m	14.593 90
	kip/foot	kN/m	14.593 90
Pressure, stress	pound/foot ²	Pa	47.880 26
	kip/foot ²	kPa	47.880 26
	pound/inch ²	kPa	6.894 757
	kip/inch ²	MPa	6.894 757
	pound /inch ²	N/mm ²	0.006 895
	kip/inch ²	N/mm ²	6.894 757
Bending Moment, torque	foot-pound	N•m	1.355 818
	foot-kip	kN•m	1.355 818
Moment of mass	pound-foot	kg•m	0.138 255 0
Moment of inertia	pound-foot ²	kg•m ²	0.042 140 11
Second moment of inertia	inch ⁴	mm ⁴	416 231.4
Section modulus	inch ³	mm ³	16 387.06
Temperature	°F	°C	(°F - 32)/5/9
Plane angle	degree	rad	0.017 453 29

Appendix H

Project No.: ID PFH CDP 67(2)

Project Name: GRANGEMONT ROAD

Contract No.: DTFH 70-10-C-00009

Award date: APRIL 28, 2010

The certification, Subcontractor listing, and attached itemized request for payment of \$326,286.11 serves as the contractor's invoice for work performed during the period indicated below, and under the contract cited.

CONTRACTOR CERTIFICATION

[FAR Clause 52.232-5 & FAR 52.232-27]

I hereby certify, to the best of my knowledge and belief, that:

- (1) The amounts requested are only for performance in accordance with the specifications, terms, and conditions of the contract;
- (2) Payments to subcontractors and suppliers have been made from previous payments received under the contract, and timely payments will be made from the proceeds of the payment covered by this certification, in accordance with subcontract agreements and the requirements of Chapter 39 of Title 31, United States Code; and
- (3) This request for progress payments does not include any amounts which the prime contractor intends to withhold or retain from a subcontractor or supplier in accordance with the terms and conditions of the subcontract.

Pave Earth First, Inc.

Contractor Company Name

Aug 2, 2010

Date Signed

Submitted by: Name A. Lincoln

Print Name and Title

2

Estimate Number

Submitted by:

Signature

A. Lincoln

July 1, 10 through July 31, 10

Dates for Progress Payment Period

Subcontractor	SF1413 & WFLHD 130 Submitted Y/N	Total Amount of Subcontract	Previous Payments	Amount Included in this Estimate*	Cumulative Retent through this Estimate
S by SW Survey	Y	107,305.00	\$39,434.59	\$39,434.59	0
We Flag, Inc.	Y	198,522.50	\$4,410.00	\$19,209.00	0
Erosion Control, Inc.	Y	15,083.68	0.00	\$13,349.70	0
Testers-R-Us, LLC.	Y	48,573.00	0.00	\$6,510.00	0

* Excludes any retent included in the right-most column. Check if continued on additional page

WFLHD 600 Rev. 11/2/09 Page 11

Pave Earth First

Paynote Information:

Bid Item	Description	Quantity	Unit	Unit Price	Total	Previous Quantity	Previous Amount	Month Quantity	Month Revenue	To Date Quantity	To Date Revenue	Quantity Remaining	Revenue Remainder
1 15101-0000	Mobilization	1	LS	\$135,561.44	\$135,561.44	0.14	\$18,978.60	0.50	\$67,780.72	0.64	\$86,759.32	0.36	\$48,802.12
2 15201-0000	Construction Survey and Staking	1	LS	\$112,670.25	\$112,670.25	0.35	\$39,434.59	0.35	\$39,434.59	0.70	\$78,869.18	0.30	\$33,801.08
3 15301-0000	Contractor Quality Control	1	LS	\$69,382.00	\$69,382.00	0	\$0.00	0.05	\$3,469.10	0.05	\$3,469.10	0.95	\$65,912.90
4 15401-0000	Contractor Testing	1	LS	\$54,250.00	\$54,250.00	0	\$0.00	0.12	\$6,510.00	0.12	\$6,510.00	0.88	\$47,740.00
5 15705-1500	Soil Erosion Control, Sediment Wattle	5,920	LNFT	\$2.34	\$13,852.80	0	\$0.00	5700	\$13,338.00	5700	\$13,338.00	220	\$514.80
6 15801-0000	Watering for Dust Control	3,000	MGAL	\$2.00	\$6,000.00	0	\$0.00	0	\$0.00	0	\$0.00	3,000	\$6,000.00
7 20301-2400	Removal of Signs	74	EA	\$15.00	\$1,110.00	0	\$0.00	0	\$0.00	0	\$0.00	74	\$1,110.00
8 20302-1300	Removal of Guardrail, Concrete Barrier	2,600	LNFT	\$5.00	\$13,000.00	0	\$0.00	0	\$0.00	0	\$0.00	2,600	\$13,000.00
9 20402-0000	Subexcavation	250	CUYD	\$17.00	\$4,250.00	0	\$0.00	0	\$0.00	0	\$0.00	250	\$4,250.00
10 20410-0000	Select Borrow	250	CUYD	\$31.56	\$7,890.00	0	\$0.00	0	\$0.00	0	\$0.00	250	\$7,890.00
11 20703-0000	GeoGrid	550	SQYD	\$5.50	\$3,025.00	0	\$0.00	0	\$0.00	0	\$0.00	550	\$3,025.00
12 30302-1000	Ditch Reconditioning	17,100	LNFT	\$0.53	\$9,063.00	0	\$0.00	9990	\$5,294.70	9990	\$5,294.70	7,110	\$3,768.30
13 30306-4000	Pulverization, 8in depth	268,000	SQYD	\$0.74	\$198,320.00	0	\$0.00	0	\$0.00	0	\$0.00	268,000	\$198,320.00
14 30405-1100	Cement Aggregate Stabilization, In-place Aggregate, 8in	268,000	SQYD	\$0.57	\$152,760.00	0	\$0.00	0	\$0.00	0	\$0.00	268,000	\$152,760.00
15 30416-0000	Cement	3,350	TON	\$127.10	\$425,785.00	0	\$0.00	0	\$0.00	0	\$0.00	3,350	\$425,785.00
16 30806-0000	Bedding and Backfill Aggregate	150	TON	\$12.17	\$1,825.50	0	\$0.00	0	\$0.00	0	\$0.00	150	\$1,825.50
17 40101-1000	Superpave Pavement: 3/4" Nominal Max 0.3-<3 Mil ESAL	46,400	TON	\$62.33	\$2,892,112.00	0	\$0.00	0	\$0.00	0	\$0.00	46,400	\$2,892,112.00
18 40105-3000	Antistrip Additive, Type 3	465	TON	\$210.00	\$97,650.00	0	\$0.00	0	\$0.00	0	\$0.00	465	\$97,650.00
19 41101-1000	Prime Coat, Grade CMS-2	0	TON	\$0.00	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00
20 41105-0000	Blotter	2,000	TON	\$0.00	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	2,000	\$0.00
21 41201-1000	Tack Coat Grade CSS-1, CSS-1H, SS-1, or SS-1H	236	TON	\$350.72	\$82,769.92	0	\$0.00	0	\$0.00	0	\$0.00	236	\$82,769.92
22 60901-2100	Curb, Asphalt, 4 inch depth	350	LNFT	\$8.35	\$2,922.50	0	\$0.00	0	\$0.00	0	\$0.00	350	\$2,922.50
23 61701-1200	Guardrail System G4, Type 2, Class A Steel Posts	3,650	LNFT	\$29.00	\$105,850.00	0	\$0.00	0	\$0.00	0	\$0.00	3,650	\$105,850.00
24 61702-0600	Terminal Section, Type Flared	7	EA	\$2,500.00	\$17,500.00	0	\$0.00	0	\$0.00	0	\$0.00	7	\$17,500.00
25 61702-0800	Terminal Section, Type Tangent	7	EA	\$2,900.00	\$20,300.00	0	\$0.00	0	\$0.00	0	\$0.00	7	\$20,300.00
26 62201-1000	Wheel Loader, 4 Cubic Yard Minimum Capacity	30	HOUR	\$120.43	\$3,612.90	0	\$0.00	0	\$0.00	0	\$0.00	30	\$3,612.90
27 62201-2050	Roller	30	HOUR	\$102.83	\$3,084.90	0	\$0.00	0	\$0.00	0	\$0.00	30	\$3,084.90
28 62201-2850	Motor Grader, 12 Foot Minimum Blade	30	HOUR	\$145.43	\$4,362.90	0	\$0.00	0	\$0.00	0	\$0.00	30	\$4,362.90
29 62301-0000	General Labor	90	HOUR	\$39.27	\$3,534.30	0	\$0.00	0	\$0.00	0	\$0.00	90	\$3,534.30
30 63302-0000	Sign System	660	SOFT	\$38.00	\$25,080.00	0	\$0.00	0	\$0.00	0	\$0.00	660	\$25,080.00
31 63309-0200	Delineator, Type 2	450	EA	\$26.00	\$11,700.00	0	\$0.00	0	\$0.00	0	\$0.00	450	\$11,700.00
32 63401-0300	Pavement Markings, Type B, Solid Yellow	280,500	LNFT	\$0.04	\$11,220.00	0	\$0.00	0	\$0.00	0	\$0.00	280,500	\$11,220.00
33 63401-0300	Pavement Markings, Type B, Solid White	374,000	LNFT	\$0.04	\$14,960.00	0	\$0.00	0	\$0.00	0	\$0.00	374,000	\$14,960.00
34 63401-0400	Pavement Markings, Type B, Broken Yellow	93,500	LNFT	\$0.02	\$1,870.00	0	\$0.00	0	\$0.00	0	\$0.00	93,500	\$1,870.00
35 63502-0400	Temporary Traffic Control, Barricade Type 1	20	EA	\$35.00	\$700.00	0	\$0.00	0	\$0.00	0	\$0.00	20	\$700.00
36 63502-0600	Temporary Traffic Control, Barricade Type 3	12	EA	\$75.00	\$900.00	0	\$0.00	0	\$0.00	0	\$0.00	12	\$900.00
37 63502-100	Temporary Traffic Control, Cone, Type 36 inch	600	EA	\$7.00	\$4,200.00	0	\$0.00	0	\$0.00	0	\$0.00	600	\$4,200.00
38 63502-1300	Temporary Traffic Control, Drum	120	EA	\$18.00	\$2,160.00	0	\$0.00	0	\$0.00	0	\$0.00	120	\$2,160.00
39 63504-1000	Temporary Traffic Control, Construction Sign	2,050	SQFT	\$4.25	\$8,712.50	216	\$918.00	72	\$306.00	288	\$1,224.00	1,762	\$7,488.50
40 63506-0600	Temporary Traffic Control, Pilot Car	250	HOUR	\$59.00	\$14,750.00	0	\$0.00	0	\$0.00	0	\$0.00	250	\$14,750.00
41 63507-0700	Temporary Traffic Control, Traffic and Safety Supervisor	110	DAY	\$450.00	\$49,500.00	4	\$1,800.00	16	\$7,200.00	20	\$9,000.00	90	\$40,500.00
42 63509-1000	Temporary Traffic Control, Flagger	2,900	HOUR	\$47.00	\$136,300.00	36	\$1,692.00	249	\$11,703.00	285	\$13,395.00	2,615	\$122,905.00
43 MOH-40101-1000	Material on Hand for Superpave Aggregate	1	LS	\$171,250.00	\$171,250.00	0	\$0.00	1	\$171,250.00	1	\$171,250.00	0	\$0.00
Totals				\$4,895,746.91	\$4,895,746.91		\$62,823.19		\$326,286.11		\$389,109.30		\$4,506,637.61
Retainage				\$0.00	\$0.00		\$0.00		\$0.00		\$0.00		\$0.00
Totals Minus Retainage				\$4,895,746.91	\$4,895,746.91		\$62,823.19		\$326,286.11		\$389,109.30		\$4,506,637.61

Appendix I

STATION

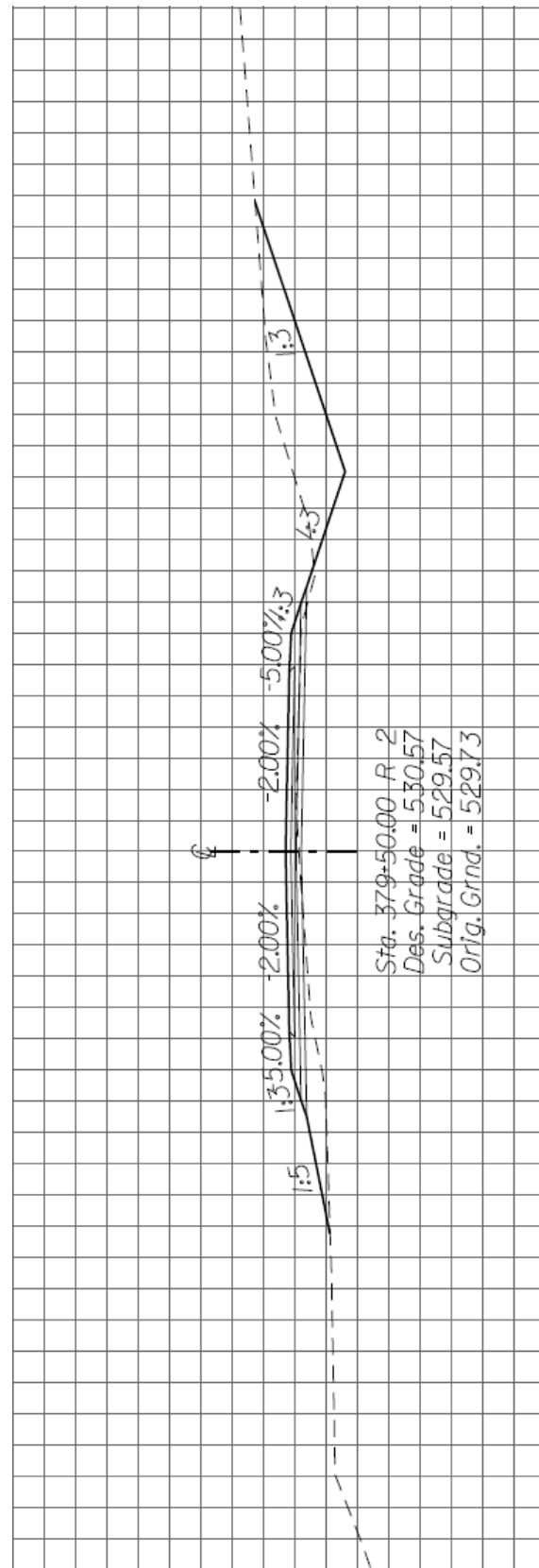
379+50.00
Region 2

Terrain Elevation	=	529.73
Design Elevation	=	529.57

DIFF = C 0.16

CHANGE	LT STAKE				ELEV	SLOPE	CENTERLINE	SLOPE	ELEV	RT STAKE				CHANGE
	RP	NO	REF	HUB						RP	NO	REF	HUB	
	F		1.50		527.74		MAIN		532.53	C		5.75		
			24.44			-5.00:1			+3.00:1				41.54	
	HP		16.95		529.24			-3.00:1		526.79			24.30	
			-0.11			-2.00%				HP		-2.45		
			11.50		529.34			-2.00%	529.24			16.95		
			-0.23			-2.00%						-0.11		
			0.00		529.57			-2.00%	529.34			11.50		
												-0.23		
									529.57			0.00		

RE-CROSS SECTION NOTES



STATION

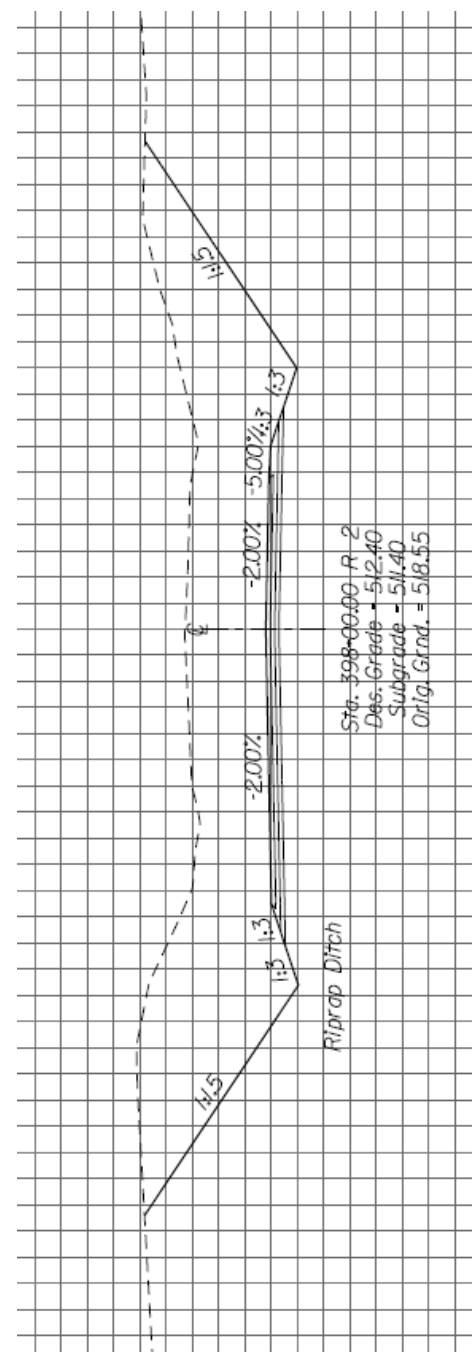
398+00.00 Region 2

Terrain Elevation = 518.55
Design Elevation = 511.40

DIFF = C 7.15

CHANGE	LT STAKE	ELEV	SLOPE	CENTERLINE	SLOPE	ELEV	RT STAKE	CHANGE
	RP NO REF HUB						RP NO REF HUB	
	C 11.73	521.65		MAIN		521.61	C 11.55	
	44.78		+1.50:1				37.27	
	27.19	509.92				510.07	19.95	
	-1.00		-3.00:1				-1.00	
	HP 24.19	510.92				511.07	HP 16.95	
	-0.06		-2.00%				-0.11	
	21.00	510.98				511.17	11.50	
	-0.19		-2.00%				-0.23	
	11.50	511.17					0.00	
	-0.23		-2.00%					
	0.00	511.40				511.40		

RE-CROSS SECTION NOTES



STATION

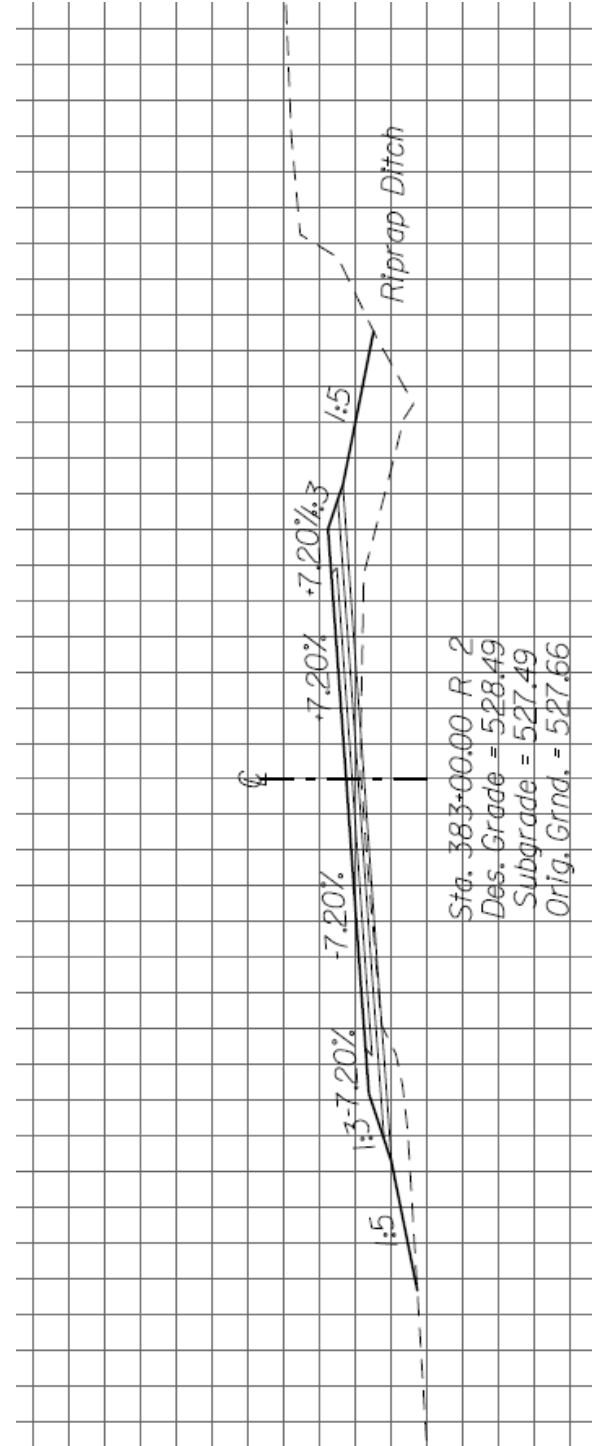
 383+00.00 Region 2

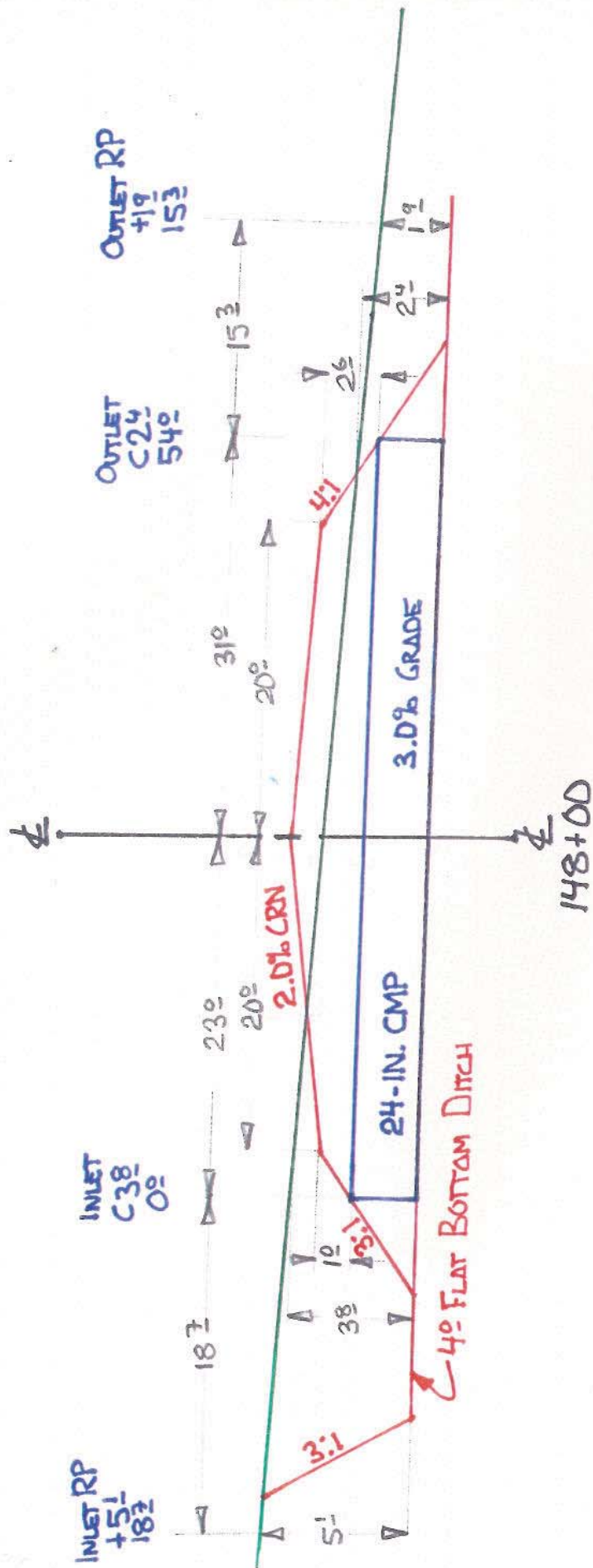
Terrain Elevation = 527.66
 Design Elevation = 527.49

DIFF = C 0.16

CHANGE	LT STAKE	ELEV	SLOPE	CENTERLINE	SLOPE	ELEV	RT STAKE	CHANGE
	RP NO REF HUB						RP NO REF HUB	
	F 1.44	524.51		MAIN		526.96	F 1.72	
	28.65		-5.00:1				25.06	
	HP 21.43	525.95				528.68	HP 16.47	
	-0.46		-7.20%				0.36	
	15.10	526.41				528.32	11.50	
	-0.26		-7.20%				0.83	
	11.50	526.67					0.00	
	-0.83		-7.20%			527.49		
	0.00	527.49						

RE-CROSS SECTION NOTES





RP
PIPE
OUTLET
+19
153
24
54°
GRADE
3.0%
24-IN x 54° CMP
w/ 2 END SECTIONS

PIPE
OUTLET
24
54°
GRADE
3.0%
24-IN. x 54° CMP
w/ 2 END SECTIONS

PIPE
INLET
38
0°
GRADE
3.0%
24-IN. x 54° CMP
w/ 2 END SECTIONS

RP
PIPE
INLET
+51
187
38
0°
GRADE
3.0%
24-IN. x 54° CMP
w/ 2 END SECTIONS

