

**VIDEO EDGE DRAIN INSPECTION
VARIOUS PROJECTS IN MISSISSIPPI**

Report 1101-2012

**Prepared by
Fugro-BRE, Inc.
8613 Cross Park Drive
Austin TX 78754**

May 3, 2002

Report No. 1101-2012
May 3, 2002

Mr. Randy Battey, P.E.
State Research Engineer
Mississippi Department of Transportation
401 West St. North, Suite 7011
Jackson, MS 39202

VIDEO EDGE DRAIN INSPECTION VARIOUS PROJECTS IN MISSISSIPPI

Dear Mr. Battey:

Fugro-BRE, Inc. was contracted to provide video inspection services for the Mississippi DOT under Professional Services No. 103700 028000. A summary of the work completed is provided herein.

INTRODUCTION

Eight sections of highway were inspected. These projects were numbered and the location and number are provided in Table 1.

Table 1. Location of the Eight Projects Inspected

Project No.	Highway	From	To
1	US98	Tylertown	Thrall/Marion County Line
2	US98	Thrall/Marion County Line	Interchange with SH35
3	US49	Forrest/Covington County Line	Interchange with SH589
4	US84	Covington/Jefferson County Line	Interchange with US49
5	US49	Interchange with SH13	Simpson/Rankin County Line
6	US49		Interchange with SH13
7	US49	Interchange with SH589	Near Interchange with US84
8	SH25	Interchange with SH35	

OVERVIEW AND SUMMARY OF FIELD INSPECTION

Work was completed between April 9 and April 18, 2002. The mainline and all the laterals were 4 inches in diameter. Lateral spacing was 200 feet for all eight projects. Table 2 provides a summary of the inspections for each project. The inspection results are provided on the Video Inspection Data Sheets in the Appendix.

Table 2. Video inspection results.

Project No.	No. of Laterals Inspected	No. of Laterals Obstructed	Average Distance Inspected (ft.)
1	75	25	89
2	135	82	57
3	42	11	91
4	38	12	73
5	29	9	67
6	22	8	61
7	37	17	66
8	16	9	69

RECOMMENDATIONS

Table 3 provides a summary of the recommendations for each project. The number of laterals that were obstructed is not equivalent to the number of laterals that are recommended for replacement. In some cases, the obstructions could be cleaned out with high pressure water jetting. In addition, some of the obstructions encountered were rodent screens that do not prevent drainage of the system, they just prevent inspection. Furthermore, some of the obstructions encountered could be punched through using the inspection camera. These laterals are still recommended for cleanout because drainage of the system may still be impeded. Details regarding specific lateral locations also are provided in the Appendix.

The videos recorded during the inspections are enclosed. Each tape is labeled with the number of the project and the number of the laterals recorded on the tape. In addition, enclosed is a CD containing pictures (labeled by project number) that were taken during the inspections.

Table 3. Summary of recommendations.

Project No.	No. of Laterals Inspected	No. of Laterals to be Replaced	No. of Laterals to be Cleaned
1	75	14	49
2	135	47	58
3	42	0	28
4	38	4	27
5	29	5	19
6	22	1	14
7	37	11	24
8	16	4	10

We appreciate the opportunity to be of service. Please do not hesitate to contact us if we can be of further assistance.

Sincerely,
Fugro-BRE, Inc.

Amy L. Simpson, Ph.D., P.E.

Cc: Mark Gardner, Fugro-BRE

APPENDIX

CLIENT: MS DOT	VIDEO INSPECTION DATA SHEET	DATE: April 9, 2002
PROJECT NO: 1	LOCATION: US 98 EB	EQUIPMENT OPERATOR: Darcel Ray/Robin Belt
TRAFFIC CONTROL: Yes/No [N]	WEATHER: Cloudy	

	Metric Station No.	No. of Bends Negtd	Work			Drain	Drain Size	Obstacle Encountered	Passable (Y/N)	Distance Inspect	Photo (Y/N)	Remark
			Replace	Clean								
			Lat	ML	Out							
1	163+43	1 - 90°	15	183	—	DD	4	—	Y	202	Y	Sag in lateral (Cut Rt SHLD)
2	163+44	1 - 90°	17	—	—	DD	4	6 – Obstruction	N	17	Y	Obstructed (Cut Rt SHLD)
3	165+44	1 - 90°	22	180	—	SD	4	—	Y	202	Y	Water in lateral/main (Cut Rt SHLD)
4	167+36	1 - 90°	20	169	—	SD	4	—	Y	189	Y	Bottom of pipe silted (Cut Rt SHLD)
5	169+40	1 - 90°	26	—	—	DD	4	6 – 26' turn	N	26	Y	Unable to make turn (Cut Rt SHLD)
6	169+41	1 - 90°	22	164	—	DD	4	—	Y	184	Y	No problem (Cut Rt SHLD)
7	171+42	1 - 90°	22	180	—	SD	4	—	Y	202	Y	Water in pipe (Fill Rt SHLD)
8	173+37	—	—	—	—	SD	4	2	N	0	Y	Refusal at lateral inlet (Fill Rt SHLD)
9	175+43	1 - 90°	22	180	—	SD	4	4	Y	202	Y	Large sag at 130' (Fill Rt SHLD)
10	177+47	1 - 90°	22	178	—	DD	4	4 – 153'	Y	198	Y	Sag at 153' (Fill Rt SHLD)
11	177+48	1 - 90°	22	178	—	DD	4	6 – full of water	Y	198	N	Pipe full of water (Fill Rt SHLD)
12	179+58	1 - 90°	22	178	—	SD	4	6 – full of water	Y	198	N	Pipe full of water (Fill Rt SHLD)
13	181+51	1 - 90°	20	7	—	SD	4	6 – full of rock	N	27	N	Rocks obstructing ML (Fill Rt SHLD)
14	183+42	1 - 90°	20	160	—	SD	4	6 – full of water	Y	180	N	Resistance at 180' (Fill Rt SHLD)
15	185+43	1 - 90°	20	130	—	SD	4	5	Y	150	N	Water in lateral and main (Fill Rt SHLD)
16	186+72	—	5	0	—	SD	4	5	N	5	N	Mud and silt at lateral entrance (Cut)
17	187+41	—	5	0	—	SD	4	5	N	5	Y	Silted at lateral entrance (Cut Rt SHLD)
18	189+48	—	0	0	—	SD	4	2	N	0	N	Concrete around pipe collapse (Cut Rt SHLD)
19	191+53	1 - 90°	20	176	—	DD	4	—	Y	196	N	No Problem (Fill Rt SHLD)
20	191+54	1 - 90°	20	176	—	DD	4	—	Y	198	N	No problem (Fill Rt SHLD)

TOTAL:			Total Feet									—	
* Obstacle Code: 1 – Rodents Nest 2 – Crushed Pipe 3 – Eroded Pipe 4 – Sags 5 – Silted Area 6 – _____													

CLIENT: MS DOT	VIDEO INSPECTION DATA SHEET	DATE: April 9, 2002
PROJECT NO: 1	LOCATION: US 98 EB	EQUIPMENT OPERATOR: Darcel Ray/Robin Belt
TRAFFIC CONTROL: Yes/No [N]	WEATHER: Partly Cloudy	

	Metric Station No.	No. of Bends Negtd	Work			Drain	Drain Size	Obstacle Encountered	Passable (Y/N)	Distance Inspect	Photo (Y/N)	Remark	
			Replace		Clean								
			Lat	ML	Out								
1	199+47	1 - 90°	20	17 6	—	DD	4	—	Y	196	N	No problems (Cut Rt SHLD)	
2	199+48	1 - 90°	20	17 6	—	DD	4	—	Y	196	N	No problems (Cut Rt SHLD)	
3	254+71	1 - 90°	20	17 0	—	SD	4	—	Y	190	Y	49' west of trench in road (Cut Rt SHLD)	
4	256+78	1 - 90°	20	10 7	—	SD	4	5	N	137	N	(Cut Rt SHLD)	
5													
6													
7													
8													
9													
10													
11													
12													
13													
14													
15													
16													
17													
18													
19													
20													
TOTAL:						Total Feet						—	

* Obstacle Code: 1 – Rodents Nest 2 – Crushed Pipe 3 – Eroded Pipe 4 – Sags 5 – Silted Area 6 - _____

CLIENT: MS DOT	VIDEO INSPECTION DATA SHEET	DATE: April 10, 2002
PROJECT NO: 1	LOCATION: US 98 EB	EQUIPMENT OPERATOR: Darcel Ray/Robin Belt
TRAFFIC CONTROL: Yes/No [N]	WEATHER: Sunny	

	Metric Station No.	No. of Bends Negtd	Work			Drain	Drain Size	Obstacle Encountered	Passable (Y/N)	Distance Inspect	Photo (Y/N)	Remark
			Replace	Clean								
			Lat	ML	Out							
1	203+50	1 - 90°	20	17 2	—	SD	4	5	Y	192	N	No problems (Fill Rt SHLD)
2	207+53	1 - 90°	24	—	—	DD	4	4	N	24	N	Photo collapsed or egg shaped (Cut Rt SHLD)
3	207+54	1 - 90°	0	—	—	DD	4	2	N	0	N	Unable to enter lateral (Cut Rt SHLD)
4	211+62	1 - 90°	20	16 0	—	SD	4	5	Y	180	N	Silted at 180', full of water (Fill Rt SHLD)
5	215+76	1 - 90°	20	15 4	—	SD	4	5	Y	174	N	Silt buildup at 154', water (Fill Rt SHLD)
6	219+38	1 - 90°	20	14 5	—	SD	4	5	Y	165	N	Silt buildup at 145', water (Cut Rt SHLD)
7	223+36	1 - 90°	20	14 5	—	SD	4	5	Y	165	N	Silt/water in lateral (Fill Rt SHLD)
8	227+40	1 - 90°	20	15 9	—	SD	4	5	Y	179	N	Silt, no grill (Cut Rt SHLD)
9	231+68	1 - 90°	20	16 7	—	SD	4	5	Y	187	N	Water at lateral entrance, not draining (Cut)
10	237+05	1 - 90°	22	15 3	—	DD	4	5	Y	175	N	Water at lateral entrance (Fill Rt SHLD)
11	237+06	1 - 90°	5	—	—	DD	4	2	N	6	N	Lat collapsed or egg shaped (Fill Rt SHLD)
12	241+09	1 - 90°	20	15 9	—	SD	4	5	N	179	N	10'in was silted (Fill Rt SHLD)
13	245+09	1 - 90°	20	12 9	—	DD	4	5	Y	149	N	Silted/water in lateral/Sag (Fill Rt SHLD)
14	245+10	1 - 90°	20	15 0	—	DD	4	5	Y	170	N	Water in lateral/Sag (Fill Rt SHLD)
15	249+02	1 - 90°	20	14 4	—	SD	4	5	Y	164	N	Silted, 122' sag (Fill Rt SHLD)
16	252+85	1 - 90°	20	14 3	—	DD	4	5	Y	163	N	Water in lateral (Cut Rt SHLD)
17	252+86	1 - 90°	20	14 7	—	DD	4	5	Y	137	N	Main has silting (Cut Rt SHLD)
18	256+00	—	—	—	—	—	—	—	—	—	—	Concrete drain, next lateral was checked
19	260+69	—	0	—	—	DD	4	6 - Concrete	N	0	N	Concrete collapsed at inlet (Cut Rt SHLD)
20												
TOTAL:						Total Feet					—	
* Obstacle Code: 1 – Rodents Nest 2 – Crushed Pipe 3 – Eroded Pipe 4 – Sags 5 – Silted Area 6 –												

CLIENT: MS DOT	VIDEO INSPECTION DATA SHEET	DATE: April 10, 2002
PROJECT NO: 1	LOCATION: US 98 EB	EQUIPMENT OPERATOR: Darcel Ray
TRAFFIC CONTROL: Yes/No [N]	WEATHER: Sunny	

	Metric Station No.	No. of Bends Negtd	Work			Drain	Drain Size	Obstacle Encountered	Passable (Y/N)	Distance Inspect	Photo (Y/N)	Remark
			Replace	Clean								
			Lat	ML	Out							
1	260+70	1 - 90°	20	95	—	DD	4	5	Y	115	N	Silted very heavy (Cut Rt SHLD)
2	264+58	1 - 90°	20	118	—	SD	4	5	Y	138	N	Lateral full of water (Fill Rt SHLD)
3	268+50	1 - 90°	20	135	—	DD	4	5	Y	155	N	Lateral full of water (Fill Rt SHLD)
4	268+51	—	20	—	—	DD	4	6 – Rock obstruction	Y	20	N	Large rock at 90° unable to pass (Fill Rt SHLD)
5	272+48	1 - 90°	20	174	—	SD	4	—	Y	194	N	Water in lateral (No Problems encountered) (Fill Rt SHLD)
6	276+41	1 - 90°	20	173	—	DD	4	—	Y	193	N	Water in lateral (Cut Rt SHLD)
7	276+42	1 - 90°	20	148	—	DD	4	5	Y	168	N	Water in lateral (Cut Rt SHLD)
8	280+33	—	3	—	—	SD	4	6 – Obstructed	N	3	N	Looks like rock at entrance (Fill Rt SHLD)
9												
10												
11												
12												
13												
14												
15												
16												
17												
18												
19												
20												

TOTAL:										Total Feet	—	
* Obstacle Code: 1 – Rodents Nest 2 – Crushed Pipe 3 – Eroded Pipe 4 – Sags 5 – Silted Area 6 - _____												

CLIENT: MS DOT	VIDEO INSPECTION DATA SHEET	DATE: April 9, 2002
PROJECT NO: 1	LOCATION: US 98 EB	EQUIPMENT OPERATOR: Darcel Ray/Robin Belt
TRAFFIC CONTROL: Yes/No [N]	WEATHER: Partly Cloudy	

No.	Metric Station No.	No. of Bends Negtd	Work			Drain	Drain Size	Obstacle Encountered	Passable (Y/N)	Distance Inspect	Photo (Y/N)	Remark
			Replace		Clean							
			Lat	ML	Out							
1	278+39	—	6	—	—	SD	4	5	N	6	N	Silted in lateral (Cut Rt SHLD)
2												
3												
4												
5												
6												
7												
8												
9												
10												
11												
12												
13												
14												
15												
16												
17												
18												
19												
20												
TOTAL:						Total Feet						
* Obstacle Code: 1 – Rodents Nest 2 – Crushed Pipe 3 – Eroded Pipe 4 – Sags 5 – Silted Area 6 - _____												

CLIENT: MS - DOT	VIDEO INSPECTION DATA SHEET	DATE:4/11/02
PROJECT NO: 1	LOCATION: US 98 EB	EQUIPMENT OPERATOR: Darcel Ray
TRAFFIC CONTROL: Yes/No [N]	WEATHER: Foggy/Cloudy	

	Metric Station No.	No. of Bends Negtd	Work			Drain	Drain Size	Obstacle Encountered	Passable (Y/N)	Distance Inspect	Photo (Y/N)	Remark
			Replace		Clean							
			Lat	ML	Out							
1	285+27	—	—	—	—	DD	4"	6 - Obstructed	N	2'	N	Pipe Collapsed (Fill Rt Shld)
2	285+28	1 - 90°	20	180	—	DD	4"	—	Y	200'	N	Water throughout line. (Fill Rt Shld)
3	289+10	1 - 90°	20	180	—	SD	4"	—	Y	200'	N	Water – small amount. (Fill Rt Shld)
4	293+04	1 - 90°	20	112	—	DD	4"	—	Y	132'	N	Silty, very heavy. (Fill Rt Shld)
5	293+05	1 - 90°	20	179	—	DD	4"	—	Y	199'	N	Water in lateral. (Fill Rt Shld)
6	296+87	1 - 90°	20	178	—	SD	4"	—	Y	198'	N	Water in lateral (sag). (Fill Rt Shld)
7	301+33	—	20	—	—	DD	4"	6 - Obstructed	N	21'	N	Piece of concrete in line. (Fill Rt Shld)
8	301+34	1 - 90°	20	101	—	DD	4"	—	Y	191'	N	Water in lateral. (Fill Rt Shld)
9	305+19	1 - 90°	20	118	—	SD	4"	—	Y	138'	N	Silty, heavy. (Fill Rt Shld)
10	308+99	—	—	—	—	DD	4"	6 - Obstructed	N		N	Heavy silty blockage. (Fill Rt Shld)
11	309+00	1 - 90°	20	121	—	DD	4"	—	Y	141'	N	Water in lateral, no screens (Fill Rt Shld)
12	312+95	1 - 90°	20	131	—	SD	4"	—	Y	151'	N	Water in lateral. (Fill Rt Shld)
13	316+96	—	1	—	—	SD	4"	6 - Obstructed	N	1'	N	Concrete ledge at entry. (Fill Rt Shld)
14	320+64	1 - 90°	20	110	—	SD	4"	1 - Obstructed	Y	130'	N	Nest-pushed past it. Taped backwards to see interior of main. (Fill Rt Shld)
15	325+44	—	—	—	—	DD	4"	5 – Silted Close	N		N	Silted close at entry. Removed 1' (Fill Rt Shld)
16	325+45	—	—	—	—	DD	4"	5 – Silted Close	N		N	of soil from each. Still not passable. (Fill Rt Shld)
17	329+52	—	—	—	—	SD	4"	5 – Silted Close	N		N	Blocked with silty material and rocks. (Fill Rt Shld)
18	333+67	—	—	—	—	DD	4"	6 – Concrete	N		N	Concrete shaped in half moon. (Fill Rt Shld)
19	333+68	—	—	—	—	DD	4"	6 – Concrete	N		N	Camera cannot enter pipeline (Fill Rt Shld)
20	339+50	1 - 90°	20	124	—	SD	4"	—	Y	144'	N	Silt bogged down. (Fill Rt Shld)

TOTAL: _____ Total Feet _____

* Obstacle Code: 1 – Rodents Nest 2 – Crushed Pipe 3 – Eroded Pipe 4 – Sags 5 – Silted Area 6 - _____

CLIENT: MS - DOT	VIDEO INSPECTION DATA SHEET	DATE: 4/11/02
PROJECT NO: 1	LOCATION: US 98 EB	EQUIPMENT OPERATOR: Darcel Ray
TRAFFIC CONTROL: Yes/No [N]	WEATHER: Foggy/Cloudy	

No.	Metric Station No.	No. of Bends Negtd	Work			Drain	Drain Size	Obstacle Encountered	Passable (Y/N)	Distance Inspect	Photo (Y/N)	Remark
			Replace		Clean							
			Lat	ML	Out							
1	343+53	1 - 90°	20		—	SD	4"	—	Y	140'	N	Silty material bogged down. (Fill Rt Shld)
2	347+71	1 - 90°	20		—	SD	4"	—	Y	143'	N	Silty sediment rejection. (Cut Rt Shld)
3	354+00	—	—	—	—	SD	4"	5 - S.H	N	3'	N	Silty Clay blockage. (Cut Rt Shld)
4												
5												
6												
7												
8												
9												
10												
11												
12												
13												
14												
15												
16												
17												
18												
19												
20												
TOTAL:						Total Feet						
* Obstacle Code: 1 – Rodents Nest 2 – Crushed Pipe 3 – Eroded Pipe 4 – Sags 5 – Silted Area 6 - _____												

CLIENT: MS DOT	VIDEO INSPECTION DATA SHEET	DATE: April 11, 2002
PROJECT NO: 2	LOCATION: US 98 EB	EQUIPMENT OPERATOR: Darcel Ray
TRAFFIC CONTROL: Yes/No [N]	WEATHER: Cloudy	

	Metric Station No.	No. of Bends Negtd	Work			Drain	Drain Size	Obstacle Encountered	Passable (Y/N)	Distance Inspect	Photo (Y/N)	Remark
			Replace	Clean								
			Lat	ML	Out							
1		1 - 90°	20	13 2	—	DD	4"	—	Y	152'	Y	Laterals full of water. (Cut Rt. Shld.)
2		1 - 90°	20	13 1	—	DD	4"	—	Y	151'	N	Main had 1" of water. (Cut Rt. Shld.)
3		—	—	—	—	SD	4"	6- Silty	N		N	Clogged with silty clay. (Cut Rt. Shld.)
4		1 - 90°	20	11 6	—	DD (L)	4"	—	Y	136'	N	Silty build up. (Cut Rt. Shld.)
5		1 - 90°	20	10 5	—	DD®	4"	—	Y	125'	N	Silty build up. (Cut Rt. Shld.)
6		1 - 90°	20	10 7	—	SD	4"	—	Y	127'	N	Silty buildup. (Cut Rt. Shld.)
7		1 - 90°	20	47	—	SD	4"	6 - White ball	N	67'	N	White clog in line. (Cut Rt. Shld.)
8		1 - 90°	20	8	—	SD	4"	2- Rocks	N	28'	N	Collapsed line, roc in line. (Cut Rt. Shld.)
9		1 - 90°	20	4	—	SD	4"	4 - Sag	N	24'	N	Sag in top & bottom of line. (Cut Rt. Shld.)
10		—	15'	—	—	SD	4"	4 - Sag	N	15'	N	Rock burst through line. (Cut Rt. Shld.)
11		1 - 90°	20	45	—	SD	4"	6 - Clogged	N	65'	N	Clog of soil in line. (Cut Rt. Shld.)
12												
13												
14												
15												
16												
17												
18												
19												
20												

TOTAL: Total Feet

* Obstacle Code: 1 - Rodents Nest 2 - Crushed Pipe 3 - Eroded Pipe 4 - Sags 5 - Silted Area 6 -

CLIENT: MS DOT	VIDEO INSPECTION DATA SHEET	DATE: April 12, 2002
PROJECT NO: 2	LOCATION: US 98 EB	EQUIPMENT OPERATOR: Darcel Ray
TRAFFIC CONTROL: Yes/No [N]	WEATHER: Cloudy	

	Metric Station No.	No. of Bends Negtd	Work			Drain	Drain Size	Obstacle Encountered	Passable (Y/N)	Distance Inspect	Photo (Y/N)	Remark
			Replace		Clean							
			Lat	ML	Out							
1	12	1 - 90°	20	106	—	DD	4"	None	Y	126'	N	Silty build up. (Fill Rt. Shld.)
2	13	1 - 90°	20	12	—	DD	4"	2- Crushed	N	32'	N	Main line may be collapsed. (Fill Rt. Shld.)
3	14	1 - 90°	—	109	—	SD	4"	1 - Nest	Y	129'	N	Nest in the way. (Fill Rt. Shld.)
4	15	1 - 90°	20	104	—	SD	4"	—	Y	124'	N	Little water in the lateral. (Fill Rt. Shld.)
5	16	1 - 90°	?	—	—	SD	4"	2 - Crushed	N	12'	N	Lateral crushed. (Cut Rt. Shld.)
6	17	—	—	—	—	DD	4"	6 - Clogged	N	2'	N	Rock soil clogged. (Cut Rt. Shld.)
7	18	—	20	3	—	DD	4"	2 - Crushed	N	23'	N	Pipe at lateral crushed. (Cut Rt. Shld.)
8	19	—	18	—	—	SD	4"	6 - Clogged	N	18'	N	Clogged with soil & rock. (Fill Rt. Shld.)
9	20	—	20	3	—	SD	4"	6 - Clogged	N	23'	N	Clogged with water. (Fill Rt. Shld.)
10	21	1 - 90°	20	141	—	SD	4"	—	Y	161'	N	Water in lateral. (Fill Rt. Shld.)
11	22	1 - 90°	28	97	—	SD	4"	—	Y	125'	N	Water in main line. (Fill Rt. Shld.)
12	23	1 - 90°	86	—	—	SD	4"	6 - Crushed	N	26'	N	Line at 90° looks smaller? (Fill Rt. Shld.)
13	24	—	9	—	—	SD	4"	2 - Crushed	N	9'	N	Lateral crushed in. (Fill Rt. Shld.)
14	25	—	12	—	—	DD	4"	2 - Crushed	N	12'	N	Lateral crushed in. (Fill Rt. Shld.)
15	26	—	13	—	—	DD	4"	2 - Crushed	N	13'	N	Lateral crushed in. (Fill Rt. Shld.)
16	27	—	11	—	—	SD	4"	2 - Crushed	N	11'	N	Lateral crushed in. (Cut Rt. Shld.)
17	28	1 - 90°	21	105	—	DD	4"	—	Y	126'	N	Silt and water in lateral. (Cut Rt. Shld.)
18	29	1 - 90°	26	96	—	DD	4"	—	Y	122'	N	Silt and water in lateral. (Cut Rt. Shld.)
19	30	—	22	—	—	SD	4"	6 - Busted	N	22'	N	Busted, sand clogged. (Cut Rt. Shld.)
20	31	—	13	—	—	SD	4"	2 - Crushed	N	13'	N	Protruding sides. (Cut Rt. Shld.)

32TOTAL:

Total Feet

* Obstacle Code33: 1 - Rodents Nest 2 - Crushed Pipe 3 - Eroded Pipe 4 - Sags 5 - Silted Area 6 -

CLIENT: MS DOT	VIDEO INSPECTION DATA SHEET	DATE: April 12, 2002
PROJECT NO: 2	LOCATION: US 98 EB	EQUIPMENT OPERATOR: Darcel Ray
TRAFFIC CONTROL: Yes/No [N]	WEATHER: Cloudy	

	Metric Station No.	No. of Bends Negtd	Work			Drain	Drain Size	Obstacle Encountered	Passable (Y/N)	Distance Inspect	Photo (Y/N)	Remark
			Replace	Clean								
			Lat	ML	Out							
1	32	—	27	—	—	SD	4"	2- Crushed	N	27'	N	Crushed in at 90° turn. (Cut Rt. Shld.)
2	33	—	7	—	—	SD	4"	6 - Concrete	N	7'	N	Concrete protrusion from side. (Cut Rt. Shld.)
3	34	—	26	—	—	SD	4"	2- Crushed	N	26'	N	Crushed in at 90° turn. (Fill Rt. Shld.)
4	35	—	12	—	—	SD	4"	6 - Busted	N	12'	N	Protruding side of pipe. (Cut Rt. Shld.)
5	36	—	17	—	—	DD	4"	6 - Busted	N	17'	N	Pipe busted – rocks. (Cut Rt. Shld.)
6	37	—	17	—	—	DD	4"	2- Crushed	N	17'	N	Pipe busted – rocks. (Cut Rt. Shld.)
7	38	1 - 90°	26	120	—	SD	4"	—	Y	146'	N	Silt & rocks (small) (Cut Rt. Shld.)
8	39	—	25	—	—	DD	4"	2- Crushed	N	25'	N	Crushed in at 90° turn. (Fill Rt. Shld.)
9	40	—	19	—	—	DD	4"	5 - Silted	N	19'	N	Pipe half full of silt. (Fill Rt. Shld.)
10	41	—	14	—	—	SD	4"	6 - Busted	N	14'	Y	Pipe protrusion on the side. (Fill Rt. Shld.)
11	42	1 - 90°	26	52	—	SD	4"	—	Y	78'	N	Silt & rock in line. (Fill Rt. Shld.)
12	43	—	14	—	—	SD	4"	6 - Busted	N	14'	N	Protrusion in line. (Fill Rt. Shld.)
13	44	—	9	—	—	DD	4"	6 - Busted	N	9'	N	Protrusion in line. (Fill Rt. Shld.)
14	45	—	8	—	—	DD	4"	2 - Crushed	N	8'	N	Pipe crushed. (Fill Rt. Shld.)
15	46	1 - 90°	25	104	—	SD	4"	—	Y	129'	N	Silty, no water in lateral. (Fill Rt. Shld.)
16	47	—	13	—	—	DD	4"	6 - Busted		13'	N	Protrusion in line. (Cut Rt. Shld.)
17	48	1 - 90°	25	79	—	DD	4"	—	Y	104'	N	Some rocks in main. (Cut Rt. Shld.)
18	49	—	24	—	—	SD	4"	6 - Clogged	N	24'	N	Rocks clogged main at 90°. (Cut Rt. Shld.)
19	50	1 - 90°	25	95	—	DD	4"	—	Y	120'	Y	Water in lateral. (Cut Rt. Shld.)
20	51	—	19	—	—	DD	4"	2 - Crushed	N	19'	Y	Egg shaped crushed pipe. (Cut Rt. Shld.)
TOTAL:						Total Feet					—	
* Obstacle Code: 1 – Rodents Nest 2 – Crushed Pipe 3 – Eroded Pipe 4 – Sags 5 – Silted Area 6 -												

CLIENT: MS DOT	VIDEO INSPECTION DATA SHEET	DATE: April 13, 2002
PROJECT NO: 2	LOCATION: US 98 EB	EQUIPMENT OPERATOR: Darcel Ray
TRAFFIC CONTROL: Yes/No [N]	WEATHER: Cloudy	

	Metric Station No.	No. of Bends Negtd	Work			Drain	Drain Size	Obstacle Encountered	Passable (Y/N)	Distance Inspect	Photo (Y/N)	Remark
			Replace		Clean							
			Lat	ML	Out							
1	52	1 - 90°	23	98	—	SD	4"	—	Y	121'	N	Sag in lateral, silty. (Cut Rt. Shld.)
2	53	—	8	—	—	DD	4"	2 - Crushed	N	8'	N	Pipe crushed. (Cut Rt. Shld.)
3	54	—	8	—	—	DD	4"	2 - Crushed	N	8'	N	Pipe crushed. (Fill Rt. Shld.)
4	55	1 - 90°	25	103	—	SD	4"	—	Y	128'	N	Silty material in lateral. (Cut Rt. Shld.)
5	56	—	9	—	—	DD	4"	2 - Crushed	N	9'	N	Pipe crushed. (Cut Rt. Shld.)
6	57	—	9	—	—	DD	4"	2 - Crushed	N	9'	N	Pipe crushed. (Cut Rt. Shld.)
7	58	—	24	—	—	SD	4"	2 - Crushed	N	24'	N	Pipe crushed at 90° turn. (Fill Rt. Shld.)
8	59	—	24	—	—	DD	4"	2 - Crushed	N	24'	N	Pipe crushed at 90° turn. (Cut Rt. Shld.)
9	60	—	24	—	—	DD	4"	2 - Crushed	N	24'	N	Pipe crushed at 90° turn. (Cut Rt. Shld.)
10	61	1 - 90°	25	82	—	SD	4"	2 - Crushed	Y	107'	Y	Rocks at 90° turn. (Fill Rt. Shld.)
11	62	—	7	—	—	SD	4"	6 - Rocks	N	7'	N	Concrete and rock blockage. (Fill Rt. Shld.)
12	63	1 - 90°	23	103	—	SD	4"	—	Y	126'	N	Silty sediments and rocks. (Cut Rt. Shld.)
13	64	—	3	—	—	SD	4"	5 - Clogged	N	3'	N	Silted, clogged. (Cut Rt. Shld.)
14	65	—	3	—	—	SD	4"	5 - Clogged	N	3'	N	Silted, clogged. (Cut Rt. Shld.)
15	66	1 - 90°	24	74	—	SD	4"	—	Y	103'	N	Small rocks and silt. (Cut Rt. Shld.)
16	67	1 - 90°	25	85	—	SD	4"	—	Y	110'	N	Small rocks and silt. (Cut Rt. Shld.)
17	68	—	8	—	—	SD	4"	6 - Crushed	N	8'	N	Protrusion in pipe. (Cut Rt. Shld.)
18	69	1 - 90°	25	78	—	SD	4"	—	Y	103'	N	Silty material. (Cut Rt. Shld.)
19	70	1 - 90°	25	81	—	DD	4"	—	Y	106'	N	Silty material. (Fill Rt. Shld.)
20	71	1 - 90°	25	82	—	DD	4"	—	Y	107'	Y	Silty material. (Fill Rt. Shld.)

TOTAL:												
Total Feet											—	

* Obstacle Code: 1 – Rodents Nest 2 – Crushed Pipe 3 – Eroded Pipe 4 – Sags 5 – Silted Area 6 – _____

CLIENT: MS DOT	VIDEO INSPECTION DATA SHEET	DATE: April 13, 2002
PROJECT NO: 2	LOCATION: US 98 EB	EQUIPMENT OPERATOR: Darcel Ray
TRAFFIC CONTROL: Yes/No [N]	WEATHER: Cloudy – Partly, cloudy	

	Metric Station No.	No. of Bends Negtd	Work			Drain	Drain Size	Obstacle Encountered	Passable (Y/N)	Distance Inspect	Photo (Y/N)	Remark
			Replace	Clean	Out							
			Lat	ML								
1	72	—	14	—	—	SD	4"	1 – Nest	N	14'	N	Nest or weed obstruction. (Cut Rt. Shld.)
2	73	—	4	—	—	DD	4"	6 – Clogged	N	4'	N	Clogged with silt. (Cut Rt. Shld.)
3	74	—	26	—	—	DD	4"	2 – Crushed	N	26'	N	Pipe crushed. (Cut Rt. Shld.)
4	75	—	12	—	—	DD	4"	6 – Protrusion	N	12'	N	Protrusion in pipe. (Fill Rt. Shld.)
5	76	—	19	—	—	DD	4"	2 - Crushed	N	19'	N	Crushed pipe. (Fill Rt. Shld.)
6	77	1 - 90°	25	78	—	DD	4"	—	Y	103'	N	Silt, small rocks. (Fill Rt. Shld.)
7	78	1 - 90°	25	83	—	DD	4"	—	Y	108'	N	Silted (Fill Rt. Shld.)
8	79	1 - 90°	25	77	—	SD	4"	—	Y	102'	N	Silted. (Cut Rt. Shld.)
9	80	—	24	—	—	DD	4"	6 – Protrusion	N	24'	N	Protrusion in pipe. (Cut Rt. Shld.)
10	81	—	21	—	—	DD	4"	6 – Busted	N	21'	Y	Busted pipe (Cut Rt. Shld.)
11	82	1 - 90°	25	86	—	SD	4"	5 – Silt	Y	111'	N	Silt buildup. (Cut Rt. Shld.)
12	83	1 - 90°	25	94	—	DD	4"	5 – Silt	Y	119'	N	Silt, small rocks. (Fill Rt. Shld.)
13	84	—	26	—	—	DD	4"	6 – Soil	N	26'	N	Nest or soil blockage (Fill Rt. Shld.)
14	85	1 - 90°	25	75	—	SD	4"	6 - Soil	Y	100'	N	Silty soil. (Cut Rt. Shld.)
15												
16												
17												
18												
19												
20												

TOTAL:											Total Feet	
--------	--	--	--	--	--	--	--	--	--	--	------------	--

* Obstacle Code: 1 – Rodents Nest 2 – Crushed Pipe 3 – Eroded Pipe 4 – Sags 5 – Silted Area 6 - _____

CLIENT: MS DOT	VIDEO INSPECTION DATA SHEET	DATE: April 15, 2002
PROJECT NO: 2	LOCATION: US 98 EB	EQUIPMENT OPERATOR: Darcel Ray
TRAFFIC CONTROL: Yes/No [N]	WEATHER: Cloudy	

	Metric Station No.	No. of Bends Negtd	Work			Drain	Drain Size	Obstacle Encountered	Passable (Y/N)	Distance Inspect	Photo (Y/N)	Remark
			Replace	Clean								
			Lat	ML	Out							
1	86	—	11	—	—	DD	4"	5 – Silt Close	N	11'	N	Silted, closed & crushed. (Cut Rt. Shld.)
2	87	—	16	—	—	DD	4"	6 - Rocks	N	16'	N	Rocks, closed. (Cut Rt. Shld.)
3	88	1 - 90°	24	83	—	SD	4"	—	Y	107'	N	Sag in lateral, water, silt. (Cut Rt. Shld.)
4	89	1 - 90°	24	101	—	DD	4"	—	Y	125'	N	Sag in lateral, water. (Cut Rt. Shld.)
5	90	1 - 90°	24	105	—	DD	4"	—	Y	129'	N	Sag in lateral, water. (Cut Rt. Shld.)
6	91	1 - 90°	24	91	—	SD	4"	—	Y	115'	Y	Sag in lateral, water. (Cut Rt. Shld.)
7	92	—	24	—	—	DD	4"	6 – Protrusion	N	24'	N	Protrusion in lateral. (Cut Rt. Shld.)
8	93	—	24	—	—	DD	4"	2 – Crushed	N	24'	N	Crushed to egg shape. (Cut Rt. Shld.)
9	94	—	—	—	—	SD	4"	5 – Silted	N	—	N	Roots, silted and closed. (Cut Rt. Shld.)
10	95	—	2	—	—	DD	4"	1 – Nest	N	2'	N	Rodent nests. (Cut Rt. Shld.)
11	96	1 - 90°	19	95	—	DD	4"	—	Y	114'	N	Sag, silt. (Cut Rt. Shld.)
12	97	—	20	—	—	SD	4"	6 – Rocks	N	20'	N	Filled with rocks. (Cut Rt. Shld.)
13	98	—	20	—	—	DD	4"	6 – Silt??	N	20'	N	Silted, closed. (Cut Rt. Shld.)
14	99	1 - 90°	22	115	—	DD	4"	—	Y	137'	N	Water in lateral. (Cut Rt. Shld.)
15	100	—	2	—	—	SD	4"	6 – Rocks	N	2'	N	Rocks, clogged. (Fill Rt. Shld.)
16	101	—	6	—	—	SD	4"	2 – Crushed	N	6'	Y	Crushed pipe. (Cut Rt. Shld.)
17	102	1 - 90°	25	101	—	SD	4"	6 – Silt	Y	126'	N	Water in lateral, silt. (Cut Rt. Shld.)
18	103		19			SD	4"	6 – Rocks	N	19'	N	Rocks at 90° turn. (Cut Rt. Shld.)
19	104		25			DD	4"	2 – Crushed		25'	N	Crushed at 90° turn. (Fill Rt. Shld.)
20	105		25			DD	4"	Water		135'	N	Lateral has sag, water. (Fill Rt. Shld.)
TOTAL:						Total Feet					—	
* Obstacle Code: 1 – Rodents Nest 2 – Crushed Pipe 3 – Eroded Pipe 4 – Sags 5 – Silted Area 6 - _____												

CLIENT: MS DOT	VIDEO INSPECTION DATA SHEET	DATE: April 15, 2002
PROJECT NO: 2	LOCATION: US 98 EB	EQUIPMENT OPERATOR: Darcel Ray
TRAFFIC CONTROL: Yes/No [N]	WEATHER: Cloudy	

	Metric Station No.	No. of Bends Negtd	Work			Drain	Drain Size	Obstacle Encountered	Passable (Y/N)	Distance Inspect	Photo (Y/N)	Remark
			Replace	Clean								
			Lat	ML	Out							
1	106	1-90°	21	144	—	DD	4	6 – Silted, Water	Y	165	N	Sag in lateral (Cut Rt SHLD)
2	107	1-90°	20	123	—	FDD	4	—	Y	143	N	Water in lateral (Cut Rt SHLD)
3	108	—	24	—	—	SD	4	2	N	24	N	Water in lateral, crushed (Cut Rt SHLD)
4	109	1-90°	21	115	—	DD	4	6 – Silt	Y	109	N	Water in lateral (Fill Rt SHLD)
5	110	—	4	—	—	DD	4	6 – Silt	N	4	N	Clogged with silt (Fill Rt SHLD)
6	111	—	2	—	—	SD	4	6 – Clogged	N	2	N	Silt Clogged (Cut Rt SHLD)
7	112	—	6	—	—	DD	4	6 – Clogged	N	6	N	Water in lateral, silt (Cut Rt SHLD)
8	113	—	21	—	—	DD	4	6 – Protrusion	N	21	N	Water, protrusion (Cut Rt SHLD)
9	114	—	21	—	—	SD	4	6 – Protrusion	N	21	N	Water, protrusion (Cut Rt SHLD)
10	115	—	6	—	—	SD	4	6 – Busted	N	6	N	Seam busted (Cut Rt SHLD)
11	116	1-90°	21	91	—	SD	4	—	Y	112	N	Water in lateral, sag (Cut Rt SHLD)
12	117	—	1	—	—	SD	4	6 – Clogged	N	1	—	Totally silted and root closed (Cut Rt SHLD)
13	118	1-90°	20	104	—	SD	4	—	Y	124	N	Water in laterals (sag) (Fill Rt SHLD)
14	119	1-90°	21	120	—	SD	4	—	Y	141	N	Water in laterals (sag) (Fill Rt SHLD)
15	120	1-90°	21	120	—	SD	4	—	Y	141	N	Water in lateral (Cut Rt SHLD)
16	121	—	21	—	—	SD	4	6 – Silt Clog	N	21	N	Silt clogged (Cut Rt SHLD)
17	122	—	2	—	—	SD	4	2	N	2	N	Crushed pipe (Cut Rt SHLD)
18	123	1-90°	21	87	—	SD	4	—	Y	108	N	Water in lateral (Cut Rt SHLD)
19	124	—	21	85	—	DD	4	—	Y	106	N	Silt, water, sag (Cut Rt SHLD)
20	125	—	21	104	—	DD	4	—	Y	125	N	Silt, water, sag (Cut Rt SHLD)
TOTAL:						Total Feet					—	

* Obstacle Code: 1 – Rodents Nest 2 – Crushed Pipe 3 – Eroded Pipe 4 – Sags 5 – Silted Area 6 -

CLIENT: MS DOT	VIDEO INSPECTION DATA SHEET	DATE: April 15, 2002
PROJECT NO: 2	LOCATION: US 98 EB	EQUIPMENT OPERATOR: Darcel Ray
TRAFFIC CONTROL: Yes/No [N]	WEATHER: Cloudy	

	Metric Station No.	No. of Bends Negtd	Work			Drain	Drain Size	Obstacle Encountered	Passable (Y/N)	Distance Inspect	Photo (Y/N)	Remark
			Replace	Clean								
			Lat	ML	Out							
1	126	1 - 90°	21	100	—	SD	4	—	Y	121	N	Water and sag in lateral (Cut Rt SHLD)
2	127	1 - 90°	21		—	DD	4	—	Y	115	N	Water and sag in lateral (Cut Rt SHLD)
3	128	—	2	—	—	DD	4	2	N	2	N	Egg out crushed (Cut Rt SHLD)
4	129	—	2	—	—	SD	4	6 - Blocked	N	2	N	Concrete block in way (Cut Rt SHLD)
5	130	—	10	—	—	DD	4	6 - ??	N	10	N	Camera under water?? (Fill Rt SHLD)
6	131	—	17	—	—	DD	4	6 - Protrusion	N	17	N	Protrusion in pipe (Fill Rt SHLD)
7	132	—	22	—	—	DD	4	6 - Protrusion	N	22	N	Pipe crush in (Cut Rt SHLD)
8	133	—	21	—	—	DD	4	6 - Protrusion	N	21	N	Protrusion at 90° (Cut Rt SHLD)
9	134	—	24	—	—	DD	4	6 - Protrusion	N	24	N	Protrusion at 90° (Fill Rt SHLD)
10	135	—	24	—	—	DD	4	6 - Protrusion	N	24	N	Protrusion at 90° Turn (Fill Rt SHLD)
11												
12												
13												
14												
15												
16												
17												
18												
19												
20												

TOTAL:										Total Feet	—	
* Obstacle Code: 1 - Rodents Nest 2 - Crushed Pipe 3 - Eroded Pipe 4 - Sags 5 - Silted Area 6 - _____												

CLIENT: MS DOT	VIDEO INSPECTION DATA SHEET	DATE: April 16, 2002
PROJECT NO: 3	LOCATION: US 49 NB	EQUIPMENT OPERATOR: Darcel Ray
TRAFFIC CONTROL: Yes/No [N]	WEATHER: Cloudy	

Metric Station No.	No. of Bends Negtd	Work			Drain	Drain Size	Obstacle Encountered	Passable (Y/N)	Distance Inspect	Photo (Y/N)	Remark	
		Replace		Clean								
		Lat	ML	Out								
1	—	—	—	—	SD	4	6 – Screen	N	—	N	Screen pushed up into drain (Fill Rt SHLD)	
2	1 - 90°	22	96	—	SD	4	—	Y	118	N	Water, silt build up (Fill Rt SHLD)	
3	—	—	—	—	SD	4	6 – Screen	N	—	N	Screen pushed up into drain (Fill Rt SHLD)	
4	1 - 90°	22	98	—	SD	4	—	Y	120	N	Silty build up, no water (Fill Rt SHLD)	
5	1 - 90°	22	107	—	DD	4	—	Y	129	N	Silty build up (Fill Rt SHLD)	
6	—	—	—	—	DD	4	6 – Screen	N	—	N	Screen pushed into drain (Fill Rt SHLD)	
7	—	—	—	—	SD	4	6 – Screen	N	—	N	Screen in drain (Fill Rt SHLD)	
8	—	25	—	—	SD	4	1	N	25	N	Rodents Nest, No Screen (Fill Rt SHLD)	
9	1 - 90°	24	5	—	SD	4	1	N	29	N	Rodents Nest, No Screen (Fill Rt SHLD)	
10	1 - 90°	24	67	—	DD	4	5	Y	91	Y	Silt, Heavy (Fill Rt SHLD)	
11	1 - 90°	24	25	—	DD	4	1	N	49	N	Rodents Nest, no screen (Fill Rt SHLD)	
12	—	2	—	—	SD	4	6 – Screen	N	2	N	Screen pushed up into drain (Fill Rt SHLD)	
13	1 - 90°	24	100	—	SD	4	5	Y	124	N	Silt build up (Fill Rt SHLD)	
14	1 - 90°	24	99	—	SD	4	5	Y	103	N	Silt build up (Fill Rt SHLD)	
15	1 - 90°	24	94	—	DD	4	5	Y	118	N	Silt build up (Fill Rt SHLD)	
16	1 - 90°	24	76	—	DD	4	5	Y	101	N	Silt build up (Fill Rt SHLD)	
17	1 - 90°	24	100	—	SD	4	5	Y	124	N	Silt build up (Fill Rt SHLD)	
18	1 - 90°	24	101	—	SD	4	5	Y	125	N	Silt build up (Cut Rt SHLD)	
19	1 - 90°	24	111	—	DD	4	5	Y	139	Y	Silt build up (Cut Rt SHLD)	
20	1 - 90°	24	79	—	DD	4	5	Y	103	Y	Silt, water in lateral (Cut Rt SHLD)	
TOTAL:					Total Feet							

* Obstacle Code: 1 – Rodents Nest 2 – Crushed Pipe 3 – Eroded Pipe 4 – Sags 5 – Silted Area 6 – _____

CLIENT: MS DOT	VIDEO INSPECTION DATA SHEET	DATE: April 16, 2002
PROJECT NO: 3	LOCATION: US 49 NB	EQUIPMENT OPERATOR: Darcel Ray
TRAFFIC CONTROL: Yes/No [N]	WEATHER: Partly Cloudy	

	Metric Station No.	No. of Bends Negtd	Work			Drain	Drain Size	Obstacle Encountered	Passable (Y/N)	Distance Inspect	Photo (Y/N)	Remark
			Replace		Clean							
			Lat	ML	Out							
1	21	1 - 90°	22	83	—	SD	4	—	Y	106	N	Silt, water sag (Fill Rt SHLD)
2	22	1 - 90°	22	82	—	SD	4	5	Y	105	N	Silty build-up (Cut Rt SHLD)
3	23	1 - 90°	20	117	—	DD	4	5	Y	137	N	Water in lateral (Cut Rt SHLD)
4	24	1 - 90°	20	110	—	DD	4	5	Y	130	N	Water, Sag (Cut Rt SHLD)
5	25	1 - 90°	20	—	—	SD	4	5	N	20	N	Silted half closed (Fill Rt SHLD)
6	26	1 - 90°	20	111	—	SD	4	—	Y	131	N	Water in lateral (Cut Rt SHLD)
7	27	1 - 90°	17	—	—	SD	4	1	N	17	N	Rodents Nest (Cut Rt SHLD)
8	28	1 - 90°	19	82	—	DD	4	—	Y	102	N	Water in lateral (Fill Rt SHLD)
9	29	1 - 90°	19	41	—	DD	4	—	Y	60	N	Silt build up (Fill Rt SHLD)
10	30	1 - 90°	19	87	—	SD	4	—	Y	106	Y	Silt build up (Cut Rt SHLD)
11	31	—	1	—	—	SD	4	5	Y	108	N	Silted close (Cut Rt SHLD)
12	32	1 - 90°	19	89	—	SD	4	5	Y	108	N	Silted heavy (Cut Rt SHLD)
13	33	1 - 90°	18	134	—	SD	4	5	Y	153	N	Silted heavy (Cut Rt SHLD)
14	34	1 - 90°	18	110	—	SD	4	—	Y	128	N	Silty (Fill Rt SHLD)
15	35	—	—	—	—	DD	4	6 - Screen	N	—	N	Screen pushed in drain (Cut Rt SHLD)
16	36	1 - 90°	18	122	—	DD	4	—	Y	140	N	Water in lateral (Cut Rt SHLD)
17	37	1 - 90°	18	93	—	SD	4	—	Y	111	N	Water, sag (Cut Rt SHLD)
18	38	1 - 90°	24	81	—	SD	4	—	Y	108	N	Sag (Cut Rt SHLD)
19	39	1 - 90°	24	85	—	SD	4	—	Y	119	N	Sag, Water (Cut Rt SHLD)
20	40	1 - 90°	24	98	—	SD	4	—	Y	122	Y	Water in lateral, silt (Fill Rt SHLD)

TOTAL:										Total Feet	—	
* Obstacle Code33: 1 - Rodents Nest 2 - Crushed Pipe 3 - Eroded Pipe 4 - Sags 5 - Silted Area 6 -												

CLIENT: MS DOT	VIDEO INSPECTION DATA SHEET	DATE: April 16, 2002
PROJECT NO: 3	LOCATION: US 49 NB	EQUIPMENT OPERATOR: Darcel Ray
TRAFFIC CONTROL: Yes/No [N]	WEATHER: Partly Cloudy, Sunny	

	Metric Station No.	No. of Bends Negtd	Work			Drain	Drain Size	Obstacle Encountered	Passable (Y/N)	Distance Inspect	Photo (Y/N)	Remark
			Replace		Clean							
			Lat	ML	Out							
1	41	1 - 90°	18	72	—	SD	4	—	Y	90	N	Water in drain (Fill Rt SHLD)
2	42	1 - 90°	18	78	—	SD	4	—	Y	96	N	Water in lateral (Cut Rt SHLD)
3												
4												
5												
6												
7												
8												
9												
10												
11												
12												
13												
14												
15												
16												
17												
18												
19												
20												
TOTAL:							Total Feet					

* Obstacle Code: 1 – Rodents Nest 2 – Crushed Pipe 3 – Eroded Pipe 4 – Sags 5 – Silted Area 6 - _____

CLIENT: MS DOT	VIDEO INSPECTION DATA SHEET	DATE: April 18, 2002
PROJECT NO: 4	LOCATION: US 84 WB	EQUIPMENT OPERATOR: Darcel Ray
TRAFFIC CONTROL: Yes/No [N]	WEATHER: Partly Cloudy	

	Metric Station No.	No. of Bends Negtd	Work			Drain	Drain Size	Obstacle Encountered	Passable (Y/N)	Distance Inspect	Photo (Y/N)	Remark
			Replace		Clean							
			Lat	ML	Out							
1		1 - 90°	20	51	—	DD	4	6 – Rocks	Y	71	N	Silt, Water in lateral (Fill Rt SHLD)
2		1 - 90°	20	88	—	DD	4	—	Y	108	N	Water in lateral, Silt (Fill Rt SHLD)
3		—	2	—	—	SD	4	2	N	2	N	Pipe crushed (Fill Rt SHLD)
4		—	3	—	—	SD	4	1	N	3	N	Rodents Nest (Fill Rt SHLD)
5		1 - 90°	20	76	—	DD	4	5	Y	96	N	Water, Silt heavy in lateral (Cut Rt SHLD)
6		1 - 90°	20	92	—	DD	4	5	Y	112	N	Water in lateral (Cut Rt SHLD)
7		1 - 90°	20	85	—	SD	4	—	Y	105	N	Silt build up (Cut Rt SHLD)
8		1 - 90°	20	85	—	SD	4	5	Y	105	N	Silt build up (Cut Rt SHLD)
9		—	2	—	—	SD	4	5	N	2	N	Silt closed (Cut Rt SHLD)
10		1 - 90°	20	49	—	SD	4	6 – Water	Y	69	Y	Water in lateral (Cut Rt SHLD)
11		1 - 90°	20	74	—	SD	4	5	Y	94	N	Water, silt, plants (Cut Rt SHLD)
12		1 - 90°	20	118	—	DD	4	—	Y	138	N	Silty (Fill Rt SHLD)
13		1 - 90°	20	90	—	DD	4	—	Y	110	N	Silty (Fill Rt SHLD)
14		1 - 90°	20	106	—	SD	4	—	Y	116	N	Water, sag (Fill Rt SHLD)
15		1 - 90°	20	66	—	SD	4	—	Y	86	N	Water in lateral (Cut Rt SHLD)
16		1 - 90°	20	102	—	SD	4	—	Y	122	N	Water, lots of silt (Cut Rt SHLD)
17		1 - 90°	20	94	—	DD	4	—	Y	114	N	Water, silt (Cut Rt SHLD)
18		1 - 90°	20	95	—	DD	4	—	Y	115	N	Water, silt (Cut Rt SHLD)
19		1 - 90°	20	121	—	SD	4	—	Y	141	N	Water in lateral (Cut Rt SHLD)
20		—	3	—	—	SD	4	—	N	5	N	Sand in drain, clogged (Cut Rt SHLD)
TOTAL:						Total Feet					—	
* Obstacle Code: 1 – Rodents Nest 2 – Crushed Pipe 3 – Eroded Pipe 4 – Sags 5 – Silted Area 6 –												

CLIENT: MS DOT	VIDEO INSPECTION DATA SHEET	DATE: April 18, 2002
PROJECT NO: 4	LOCATION: US 84 WB	EQUIPMENT OPERATOR: Darcel Ray
TRAFFIC CONTROL: Yes/No [N]	WEATHER: Sunny	

	Metric Station No.	No. of Bends Negtd	Work			Drain	Drain Size	Obstacle Encountered	Passable (Y/N)	Distance Inspect	Photo (Y/N)	Remark
			Replace	Clean								
			Lat	ML	Out							
1	21	1 - 90°	15	—	—	SD	4	2	N	15	N	Pipe crushed at 90° (Cut Rt SHLD)
2	22	1 - 90°	20	118	—	SD	4	—	Y	138	N	Water in lateral (Cut Rt SHLD)
3	23	1 - 90°	20	94	—	SD	4	6 - Water	Y	114	N	Water old nest (Cut Rt SHLD)
4	24	—	—	—	—	DD	4	6 - Sand	N	—	N	Clogged with sand (Cut Rt SHLD)
5	25	—	—	—	—	DD	4	6 - Sand	N	—	N	Clogged with sand (Cut Rt SHLD)
6	26	1 - 90°	25	108	—	SD	4	—	Y	133	N	Water silt (Cut Rt SHLD)
7	27	1 - 90°	25	56	—	DD	4	5	Y	81	N	Silt heavy (Fill Rt SHLD)
8	28	—	—	—	—	DD	4	6 - Clogged	N	—	N	Clogged with roots and sand (Fill Rt SHLD)
9	29	1 - 90°	25	64	—	SD	4	5	Y	89	N	Heavy Silt (Fill Rt SHLD)
10	30	1 - 90°	19	—	—	SD	4	2	N	19	Y	No screen, Crushed at 90° (Cut Rt SHLD)
11	31	—	—	—	—	—	4	—	—	—	—	Totally covered with plants (Cut Rt SHLD)
12	32	—	—	—	—	—	4	—	—	—	—	Covered over with rock sand (Cut Rt SHLD)
13	33	1 - 90°	25	89	—	SD	4	6 - Water	Y	44	N	Water in lateral (Cut Rt SHLD)
14	34	1 - 90°	20	85	—	DD	4	5	Y	105	N	Heavy silt (Cut Rt SHLD)
15	35	1 - 90°	20	94	—	DD	4	5	Y	114	N	Heavy silt (Cut Rt SHLD)
16	36	1 - 90°	20	71	—	SD	4	5	Y	91	N	Heavy silt, water in main (Cut Rt SHLD)
17	37	—	13	—	—	DD	4	6 - Protrusion	N	13	N	Protrusion in pipe (Cut Rt SHLD)
18	38	1 - 90°	20	83	—	DD	4	—	—	103	N	Water in lateral, silt (Cut Rt SHLD)
19												
20												
TOTAL:						Total Feet					—	

* Obstacle Code: 1 - Rodents Nest 2 - Crushed Pipe 3 - Eroded Pipe 4 - Sags 5 - Silted Area 6 -

CLIENT: MS DOT	VIDEO INSPECTION DATA SHEET	DATE: April 20, 2002
PROJECT NO: 5	LOCATION: US 49 NB	EQUIPMENT OPERATOR: Darcel Ray
TRAFFIC CONTROL: Yes/No [N]	WEATHER: Cloudy	

	Metric Station No.	No. of Bends Negtd	Work			Drain	Drain Size	Obstacle Encountered	Passable (Y/N)	Distance Inspect	Photo (Y/N)	Remark
			Replace	Clean								
			Lat	ML	Out							
1		1 - 90°	18	126	—	SD	4	—	Y	144	N	Water in lateral (Cut Rt SHLD)
2		1 - 90°	18	114	—	SD	4	—	Y	132	N	Water in lateral (Cut Rt SHLD)
3		—	6	—	—	SD	4	2	N	6	N	Pipe crushed at lateral (Cut Rt SHLD)
4		1 - 90°	18	65	—	SD	4	5	Y	83	N	Silty heavy (Cut Rt SHLD)
5		1 - 90°	5	—	—	DD	4	2	N	5	N	Lateral crushed (Cut Rt SHLD)
6		1 - 90°	18	88	—	DD	4	—	Y	106	N	Water in lateral (Cut Rt SHLD)
7		1 - 90°	18	76	—	SD	4	—	Y	94	N	Water in lateral (Cut Rt SHLD)
8		—	3	—	—	SD	4	6 - Blocked	N	3	N	Large rock? (Cut Rt SHLD)
9		1 - 90°	18	63	—	SD	4	—	Y	81	N	Water in lateral (Cut Rt SHLD)
10		1 - 90°	18	74	—	DD	4	—	Y	95	Y	Water, silt (Cut Rt SHLD)
11		1 - 90°	18	107	—	DD	4	5	Y	125	N	Silt in main (Cut Rt SHLD)
12		—	—	—	—	SD	4	6 - concrete	N	—	N	Concrete screen can't remove (Cut Rt SHLD)
13		—	15	—	—	SD	4	2	N	13	N	Lateral crushed in (Cut Rt SHLD)
14		1 - 90°	18	70	—	SD	4	5	Y	98	N	Silty main (Fill Rt SHLD)
15		1 - 90°	18	31	—	DD	4	5	Y	49	N	Heavy silt (Fill Rt SHLD)
16		1 - 90°	18	38	—	DD	4	5	Y	56	N	Heavy silt (Fill Rt SHLD)
17		1 - 90°	18	46	—	SD	4	6 - Sand	Y	64	N	Very heavy sand in main (Fill Rt SHLD)
18		1 - 90°	18	64	—	SD	4	5	Y	82	N	Heavy silt in main (Fill Rt SHLD)
19		1 - 90°	18	91	—	SD	4	5	Y	100	N	Silt (Fill Rt SHLD)
20		1 - 90°	18	—	—	DD	4	6 - Sand	Y	53	N	Sand in main (Fill Rt SHLD)
TOTAL:						Total Feet					—	

* Obstacle Code: 1 - Rodents Nest 2 - Crushed Pipe 3 - Eroded Pipe 4 - Sags 5 - Silted Area 6 - _____

VIDEO INSPECTION DATA SHEET

CLIENT: MS DOT

LOCATION: US 49 NB

DATE: April 20, 2002

PROJECT NO: 5

EQUIPMENT OPERATOR: Darcel Ray

TRAFFIC CONTROL: Yes/No [N]

WEATHER: Sunny and hot

	Metric Station No.	No. of Bends Negtd	Work			Drain	Drain Size	Obstacle Encountered	Passable (Y/N)	Distance Inspect	Photo (Y/N)	Remark
			Replace		Clean Out							
			Lat	ML								
1	21	1 - 90°	18	50	—	DD	4	6 - Sand	Y	68	Y	Heavy sand (Fill Rt SHLD)
2	22	1 - 90°	18	42	—	SD	4	6 - Sand	N	79	N	Heavy sand in main (Fill Rt SHLD)
3	23	—	3	—	—	SD	4	2	N	3	N	Lateral was crushed (Fill Rt SHLD)
4	24	1 - 90°	18	62	—	SD	4	5	Y	80	N	Silt in lateral (Fill Rt SHLD)
5	25	1 - 90°	18	93	—	SD	4	5	Y	111	N	Sand and silt (Fill Rt SHLD)
6	26	1 - 90°	18	69	—	SD	4	5	Y	87	N	Silt dry main (Fill Rt SHLD)
7	27	—	9	—	—	SD	4	2	N	9	N	Crushed (Fill Rt SHLD)
8	28	1 - 90°	18	90	—	SD	4	—	Y	108	N	Dry silty (Fill Rt SHLD)
9	29	—	18	—	—	SD	4	6 - Busted	N	18	N	Rocks in 90° turn (Fill Rt SHLD)
10												
11												
12												
13												
14												
15												
16												
17												
18												
19												
20												
TOTAL:						Total Feet						
* Obstacle Code: 1 - Rodents Nest 2 - Crushed Pipe 3 - Eroded Pipe 4 - Sags 5 - Silted Area 6 - _____												

CLIENT: MS DOT	VIDEO INSPECTION DATA SHEET	DATE: April 19, 2002
PROJECT NO: 6	LOCATION: US 49 NB	EQUIPMENT OPERATOR: Darcel Ray
TRAFFIC CONTROL: Yes/No [N]	WEATHER: Cloudy	

	Metric Station No.	No. of Bends Negtd	Work			Drain	Drain Size	Obstacle Encountered	Passable (Y/N)	Distance Inspect	Photo (Y/N)	Remark
			Replace		Clean							
			Lat	ML	Out							
1		1 - 90°	20	77	—	SD	4	—	Y	97	N	Silt in lateral (Cut Rt SHLD)
2		1 - 90°	20	80	—	SD	4	5	Y	100	N	Silt in lateral and main (Cut Rt SHLD)
3		1 - 90°	20	45	—	SD	4	5	Y	65	N	Silt, sag, silt in main (Cut Rt SHLD)
4		1 - 90°	20	98	—	SD	4	5	Y	118	N	Silt in main and lateral
5		—	4	—	—	SD	4	5	N	4	N	Silted closed (Cut Rt SHLD)
6		—	3	—	—	SD	4	5	N	3	N	Silted closed (Cut Rt SHLD)
7		1 - 90°	20	69	—	SD	4	5	Y	89	N	Silted (Cut Rt SHLD)
8		1 - 90°	20	37	—	SD	4	5	Y	87	N	Heavy silted (Cut Rt SHLD)
9		—	—	—	—	SD	4	6 - Cpmcrete	N	—	N	Concreted to sides of screen (Cut Rt SHLD)
10		—	—	—	—	SD	4	6 - Concrete	N	—	Y	Concreted to sides of screen (Cut Rt SHLD)
11		—	—	—	—	DD	4	6 - Concrete	N	—	N	Concreted to sides of screen (Cut Rt SHLD)
12		—	20	—	—	DD	4	2	N	20	N	Pipe crushed (Cut Rt SHLD)
13		1 - 90°	20	85	—	SD	4	5	Y	105	N	Silt heavy (Cut Rt SHLD)
14		1 - 90°	20	73	—	SD	4	5	Y	93	N	Silted (Fill Rt SHLD)
15		1 - 90°	20	49	—	SD	4	5	Y	69	N	Silted (Fill Rt SHLD)
16		1 - 90°	20	65	—	SD	4	—	Y	85	N	Silt (Fill Rt SHLD)
17		1 - 90°	20	85	—	SD	4	5	Y	105	N	Water in lateral (Cut Rt SHLD)
18		1 - 90°	20	41	—	SD	4	6 - Water	Y	61	N	Water in lateral (Cut Rt SHLD)
19		1 - 90°	20	12 2	—	SD	4	6 - Water	Y	142	N	Water in lateral (Cut Rt SHLD)
20		—	—	—	—	SD	4	6 - Clogged	N	3	Y	Clogged with sand
TOTAL:						Total Feet						

* Obstacle Code: 1 - Rodents Nest 2 - Crushed Pipe 3 - Eroded Pipe 4 - Sags 5 - Silted Area 6 - _____

CLIENT: MS DOT

VIDEO INSPECTION DATA SHEET

LOCATION: US 49 NB

DATE: April 19, 2002

PROJECT NO: 6

EQUIPMENT OPERATOR: Darcel Ray

TRAFFIC CONTROL: Yes/No [N]

WEATHER: Cloudy

	Metric Station No.	No. of Bends Negtd	Work			Drain	Drain Size	Obstacle Encountered	Passable (Y/N)	Distance Inspect	Photo (Y/N)	Remark
			Replace		Clean							
			Lat	ML	Out							
1	21	1 - 90°	20	66	—	SD	4	—	Y	86	N	Silt, water in lateral (Fill Rt SHLD)
2	22	—	—	—	—	SD	4	6 - concrete	N	—	N	Concrete at bottom of screen (Cut Rt SHLD)
3												
4												
5												
6												
7												
8												
9												
10												
11												
12												
13												
14												
15												
16												
17												
18												
19												
20												
TOTAL:						Total Feet						
* Obstacle Code: 1 – Rodents Nest 2 – Crushed Pipe 3 – Eroded Pipe 4 – Sags 5 – Silted Area 6 - _____												

CLIENT: MS DOT	VIDEO INSPECTION DATA SHEET	DATE: April 17, 2002
PROJECT NO: 7	LOCATION: US 49 NB	EQUIPMENT OPERATOR: Darcel Ray
TRAFFIC CONTROL: Yes/No [N]	WEATHER: Cloudy, Foggy	

	Metric Station No.	No. of Bends Negtd	Work			Drain	Drain Size	Obstacle Encountered	Passable (Y/N)	Distance Inspect	Photo (Y/N)	Remark
			Replace		Clean							
			Lat	ML	Out							
1		1 - 90°	18	170	—	SD	4	—	Y	168	N	Water in lateral (Cut Rt SHLD)
2		1 - 90°	18	102	—	SD	4	—	Y	120	N	Water in lateral, sag (Cut Rt SHLD)
3		—	—	—	—	SD	4	6 - Clogged	N	—	N	Clogged with soil (Cut Rt SHLD)
4		1 - 90°	18	39	—	SD	4	5	Y	57	N	Water in lateral, silt (Cut Rt SHLD)
5		1 - 90°	18	81	—	SD	4	5	Y	99	N	Heavy silt, water (Cut Rt SHLD)
6		1 - 90°	18	36	—	SD	4	5	N	54	N	Silt clog, water in lateral (Fill Rt SHLD)
7		—	—	—	—	SD	4	6 - Concrete	N	—	N	Concrete clogged drain (Fill Rt SHLD)
8		1 - 90°	18	75	—	SD	4	5	Y	91	N	Silt, water, sag (Cut Rt SHLD)
9		—	10	—	—	SD	4	6 - Concrete	N	10	N	Concrete chunk, water (Cut Rt SHLD)
10		—	18	2	—	DD	4	2	N	20	Y	Missing screen, crushed (Cut Rt SHLD)
11		1 - 90°	18	74	—	DD	4	6 - Concrete	Y	92	Y	Concrete rock in the way (Cut Rt SHLD)
12		1 - 90°	18	71	—	SD	4	—	Y	89	N	Water silt, heavy (Cut Rt SHLD)
13		1 - 90°	18	2	—	SD	4	6 - Rock clog	N	20	N	Rock clog at 90° (Cut Rt SHLD)
14		1 - 90°	18	94	—	SD	4	—	Y	112	N	Water in drain (Fill Rt SHLD)
15		1 - 90°	18	5	—	DD	4	6 - Silt clog	N	23	N	Clog of Silt, no screen (Fill Rt SHLD)
16		—	9	—	—	DD	4	1	N	9	N	Rodents Nest (Fill Rt SHLD)
17		1 - 90°	18	76	—	SD	4	—	Y	94	N	Water silt (Fill Rt SHLD)
18		1 - 90°	18	100	—	SD	4	6 - Roots	Y	118	N	Plant roots at start (Fill Rt SHLD)
19		1 - 90°	18	55	—	SD	4	6 - Silt clogs	Y	73	N	Globs of soil (Fill Rt SHLD)
20		—	16	—	—	DD	4	6 - ??	N	16	Y	Collapsed? Clogged? (Cut Rt SHLD)
TOTAL:						Total Feet						

* Obstacle Code: 1 - Rodents Nest 2 - Crushed Pipe 3 - Eroded Pipe 4 - Sags 5 - Silted Area 6 - _____

CLIENT: MS DOT	VIDEO INSPECTION DATA SHEET	DATE: April 17, 2002
PROJECT NO: 7	LOCATION: US 84 WB	EQUIPMENT OPERATOR: Darcel Ray
TRAFFIC CONTROL: Yes/No [N]	WEATHER: Sunny – Partly cloudy	

	Metric Station No.	No. of Bends Negtd	Work			Drain	Drain Size	Obstacle Encountered	Passable (Y/N)	Distance Inspect	Photo (Y/N)	Remark
			Replace	Clean								
			Lat	ML	Out							
1	21	1 - 90°	18	90	—	SD	4	5	Y	108	N	Silt in main line (Cut Rt SHLD)
2	22	1 - 90°	18	104	—	SD	4	5	Y	122	N	Water in lateral, silt (Cut Rt SHLD)
3	23	1 - 90°	18	107	—	SD	4	2	Y	125	N	Heavy silt (Cut Rt SHLD)
4	24	1 - 90°	18	4	—	DD	4	2	N	22	N	Crushed at 90° turn (Fill Rt SHLD)
5	25	1 - 90°	18	3	—	DD	4	2	N	21	N	Crushed at 90° turn (Fill Rt SHLD)
6	26	1 - 90°	18	10	—	SD	4	2	N	28	N	Crushed at 90° turn (Fill Rt SHLD)
7	27	1 - 90°	18	3	—	SD	4	2	N	21	N	Crushed at 90° turn (Fill Rt SHLD)
8	28	—	—	—	—	SD	4	6 – Concrete	N	—	N	Concrete in mouth of drain (Cut Rt SHLD)
9	29	1 - 90°	21	129	—	SD	4	5	Y	150	N	Silt buildup, water (Cut Rt SHLD)
10	30	1 - 90°	21	117	—	SD	4	5	Y	138	N	Silt, Water (Cut Rt SHLD)
11	31	—	21	—	—	DD	4	2	N	21	N	Pipe Crshed before 90° (Cut Rt SHLD)
12	32	1 - 90°	21	82	—	DD	4	5	Y	103	N	Water in lateral, silt (Cut Rt SHLD)
13	33	—	8	—	—	SD	4	2	N	8	N	Pipe crushed in two places (Cut Rt SHLD)
14	34	1 - 90°	21	—	—	SD	4	2	N	21	N	Crushed after 90° turn (Cut Rt SHLD)
15	35	1 - 90°	20	84	—	SD	4	5	Y	104	N	Silted 1/3 up. Ants! (Fill Rt SHLD)
16	36	1 - 90°	18	84	—	SD	4		Y	102	N	Silt, water in laterals (Cut Rt SHLD)
17	37	1 - 90°	18	76	—	SD	4	5	Y	94	N	Silt heavy (Fill Rt SHLD)
18												
19												
20												
TOTAL:						Total Feet					—	

* Obstacle Code: 1 – Rodents Nest 2 – Crushed Pipe 3 – Eroded Pipe 4 – Sags 5 – Silted Area 6 - _____

CLIENT: MS DOT	VIDEO INSPECTION DATA SHEET	DATE: April 22, 2002
PROJECT NO: 8	LOCATION: US 25 NB	EQUIPMENT OPERATOR: Darcel Ray
TRAFFIC CONTROL: Yes/No [N]	WEATHER: Cloudy – Rainy	

	Metric Station No.	No. of Bends Negtd	Work			Drain	Drain Size	Obstacle Encountered	Passable (Y/N)	Distance Inspect	Photo (Y/N)	Remark
			Replace	Clean								
			Lat	ML	Out							
1		—	17	—	—	DD	4	2	N	17	N	Lateral crushed at 90° turn (Fill Rt SHLD)
2		—	5	—	—	DD	4	1	N	5	N	Rodents nest and rocks (Fill Rt SHLD)
3		1 - 90°	20	98	—	SD	4	—	Y	118	N	Sand and silt (Fill Rt SHLD)
4		—	3	—	—	SD	4	6 – Ants	N	3	N	Fire ants nests (Fill Rt SHLD)
5		1 - 90°	20	115	—	DD	4	6 – Water	Y	135	N	Water totally in lateral (Fill Rt SHLD)
6		1 - 90°	20	119	—	DD	4	6 – Water	Y	139	N	Lateral full of water (Fill Rt SHLD)
7		—	13	—	—	SD	4	2	N	13	N	Water silt (Cut Rt SHLD)
8		1 - 90°	20	147	—	SD	4	5	Y	167	N	Silt (Cut Rt SHLD)
9		—	3	—	—	SD	4	6 – Soil clay	N	3	N	Soil clogged lateral (Cut Rt SHLD)
10		1 - 90°	21	—	—	SD	4	2	N	21	N	Pipe crushed (Fill Rt SHLD)
11		—	18	—	—	SD	4	2	N	13	N	Crushed lateral (Fill Rt SHLD)
12		—	18	—	—	SD	4	2	N	18	N	Crushed lateral (Fill Rt SHLD)
13		1 - 90°	20	4	—	DD	4	5	N	24	N	Silt will not let pan? (Cut Rt SHLD)
14		1 - 90°	20	56	—	DD	4	5	Y	76	N	Heavy silt (Cut Rt SHLD)
15		1 - 90°	20	145	—	SD	4	5	Y	165	N	Silty lateral has water (Fill Rt SHLD)
16		1 - 90°	20	166	—	SD	4	5	Y	186	N	Silty
17												
18												
19												
20												
TOTAL:						Total Feet					—	

* Obstacle Code: 1 – Rodents Nest 2 – Crushed Pipe 3 – Eroded Pipe 4 – Sags 5 – Silted Area 6 -