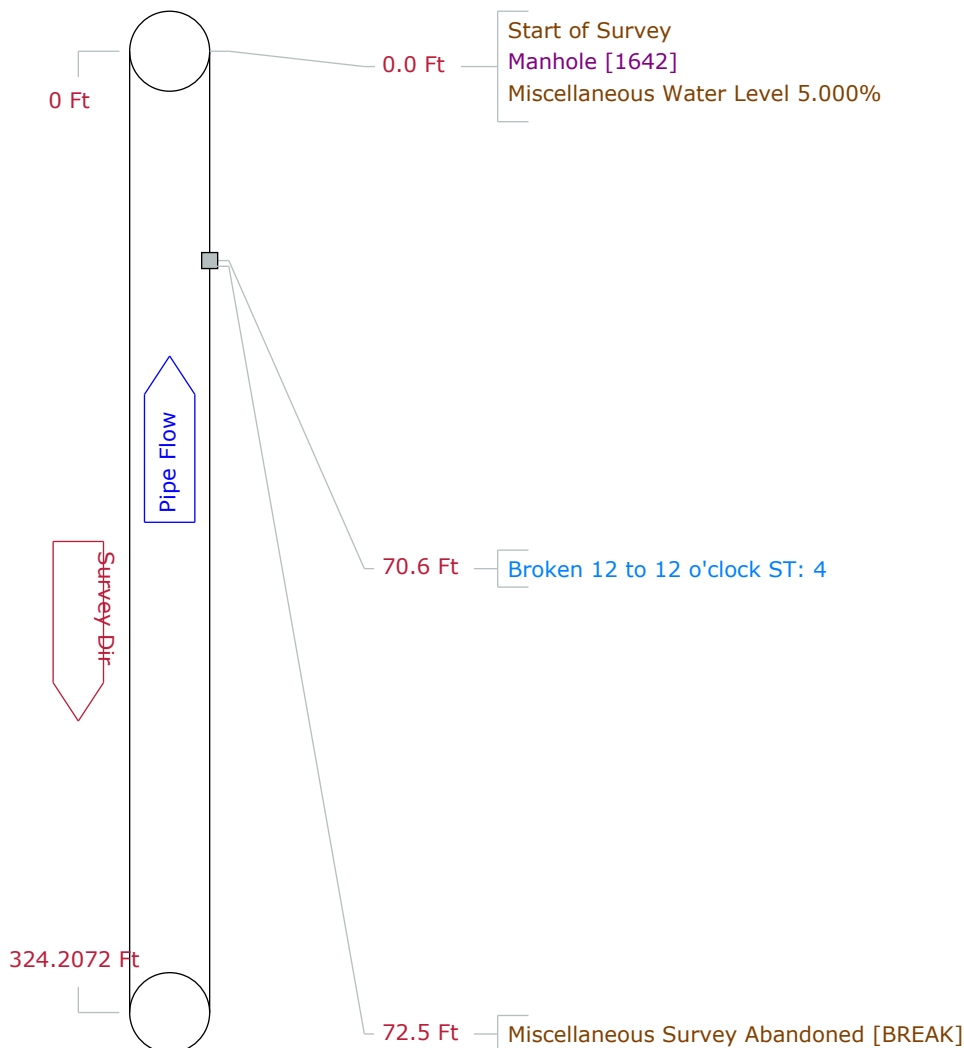


Arch Ave. (in grass at Dow) - Spot Replacement - MH1643 to 1643

Pipe Graphic Report of PLR 3664

for Hillsdale

Setup	516/5	Surveyed By	AGS	Certificate #	U61406021126	Owner	
Reviewed By		Reviewer #		Work Order			
Customer				P/O #			
Media Label		Project	SANITARY				
Date	2021/06/07	Time	18:08	Weather	Dry - no Precipitation	Pre-Cleaning	N
Flow control		Survey Purpose				Date Cleaned	
Street	ARCH AVE	City	HILLSDALE	Drainage area			
Location Code		Pipe Use	Sanitary Sewage Pipe				
Location details		Height	8	Width	ins		
Shape	Circular	Material	Vitrified Clay Pipe	Lining			
Coating		Pipe Joint length	Ft	Total length	324.2	Ft	Structural O & M
Length Surveyed	72.50	Year Constructed		Year Renewed			Miscellaneous Constructional
Additional info							
Up	1643	Rim to invert		Grade to invert		Rim to grade	Ft
Down	1642	Rim to invert		Grade to invert		Rim to grade	Ft



Tabular Report of PSR 3664
for Hillsdale

Setup 516	Surveyed By AGS	Certificate # U61406021126	Owner
Reviewed By	Reviewer #	Work Order	
Customer		P/O #	
Media Label	Project SANITARY		
Date 2021/06/07	Time 18:08	Weather Dry - no Precipitation	Pre-Cleaning N
Flow control	Survey Purpose		Date Cleaned
Inspection Status Complete Inspection	Consequence Of Failure	Pressure	
Inspection Technology Used	<input type="checkbox"/> CCTV <input type="checkbox"/> Laser <input type="checkbox"/> Sonar <input type="checkbox"/> Sidewall <input type="checkbox"/> Zoom <input type="checkbox"/> Other		
Street ARCH AVE	City HILLSDALE	Drainage area	
Location Code		Pipe Use Sanitary Sewage Pipe	
Location details		Height 8 Width ins	
Shape Circular	Material Vitrified Clay Pipe	Lining	
Coating	Pipe Joint length Ft	Total length 324.2 Ft	
Length Surveyed 72.5 Ft	Year Constructed	Year Renewed	
Up 1643	Rim to invert	Grade to invert	Rim to grade Ft
Northing	Easting	Elevation	
Down 1642	Rim to invert	Grade to invert	Rim to grade Ft
Northing	Easting	Elevation	
Coordinate System	Vertical Datum		
GPS Accuracy	<div> Structural O & M Miscellaneous Constructional </div>		
Additional info			

Count	Video	CD	Code	Val1	Val2	%	Jnt	Fr	To	ImRef	Remarks
0.0			ST Start of Survey								
0.0			AMH Manhole								1642
0.0			MWL Miscellaneous Water Level			5.000					
70.6			B Broken				J	12	12		
72.5			MSA Miscellaneous Survey Abandoned								BREAK

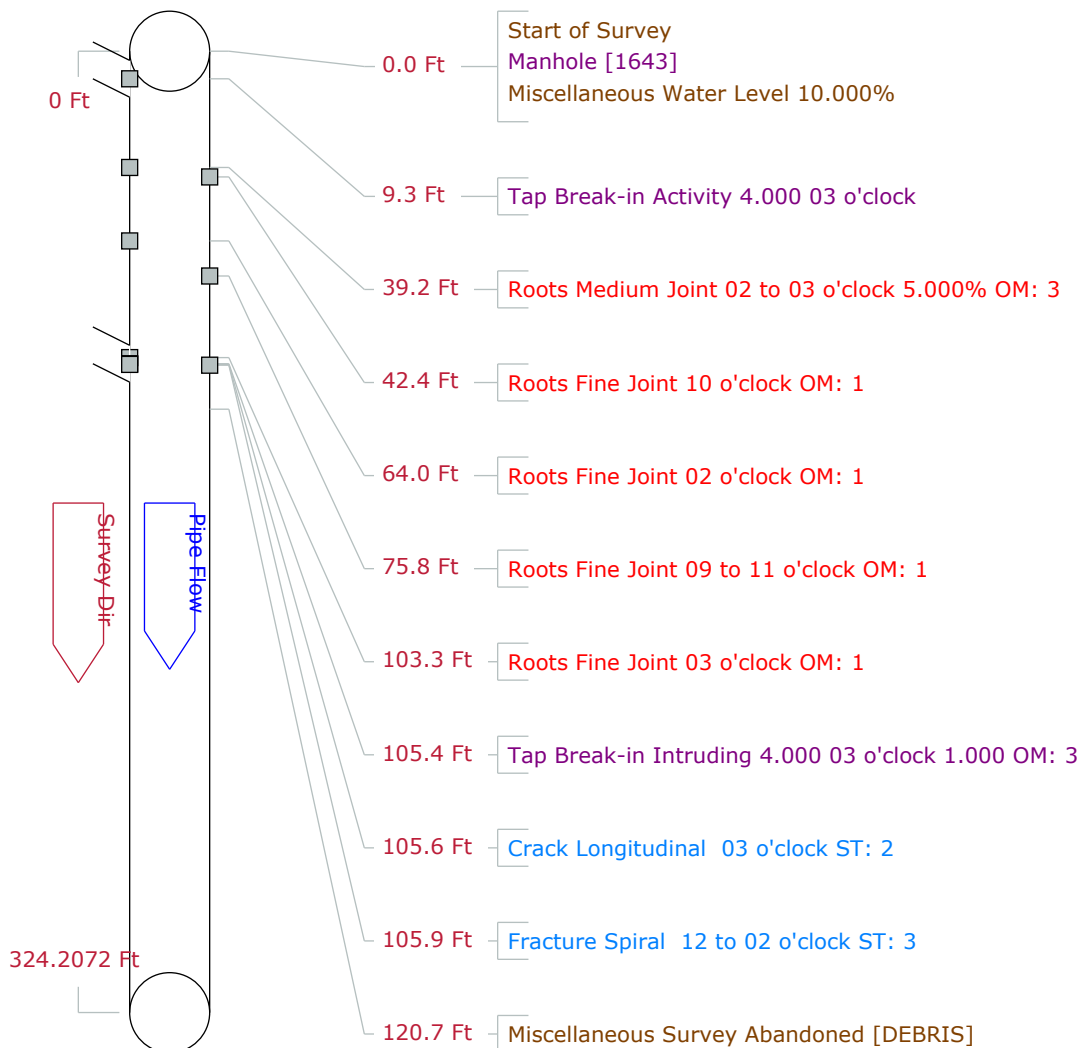
72.5 Ft **Total Length Surveyed**

Scores	Structural:	Pipe Rating 4	Pipe Ratings Index 4	Quick Rating 4100
	O&M:	Pipe Rating 0	Pipe Ratings Index 0	Quick Rating 0000
	Overall	Pipe Rating 4	Pipe Ratings Index 4.0	Quick Rating 4100

Pipe Graphic Report of PLR 3664

for Hillsdale

Setup	517/5	Surveyed By	AGS	Certificate #	U61406021126	Owner	
Reviewed By		Reviewer #		Work Order			
Customer				P/O #			
Media Label		Project	SANITARY				
Date	2021/06/07	Time	18:15	Weather	Dry - no Precipitation	Pre-Cleaning	N
Flow control		Survey Purpose				Date Cleaned	
Street	ARCH AVE	City	HILLSDALE	Drainage area			
Location Code		Pipe Use	Sanitary Sewage Pipe				
Location details		Height	8	Width	ins		
Shape	Circular	Material	Vitrified Clay Pipe	Lining			
Coating		Pipe Joint length	Ft	Total length	324.2	Ft	Structural O & M
Length Surveyed	120.70 Ft	Year Constructed		Year Renewed			Miscellaneous Constructional
Additional info	Reverse set up on sheet:451						
Up	1643	Rim to invert		Grade to invert		Rim to grade	Ft
Down	1642	Rim to invert		Grade to invert		Rim to grade	Ft



Tabular Report of PSR 3664
for Hillsdale

Setup 517	Surveyed By AGS	Certificate # U61406021126	Owner
Reviewed By	Reviewer #	Work Order	
Customer		P/O #	
Media Label	Project SANITARY		
Date 2021/06/07	Time 18:15	Weather Dry - no Precipitation	Pre-Cleaning N
Flow control	Survey Purpose		Date Cleaned
Inspection Status Complete Inspection	Consequence Of Failure	Pressure	Direction Down
Inspection Technology Used	<input type="checkbox"/> CCTV <input type="checkbox"/> Laser <input type="checkbox"/> Sonar <input type="checkbox"/> Sidewall <input type="checkbox"/> Zoom <input type="checkbox"/> Other		
Street ARCH AVE	City HILLSDALE	Drainage area	
Location Code		Pipe Use Sanitary Sewage Pipe	
Location details		Height 8	Width ins
Shape Circular	Material Vitrified Clay Pipe	Lining	
Coating	Pipe Joint length	Ft	Total length 324.2 Ft
Length Surveyed 120.7 Ft	Year Constructed		Year Renewed
Up 1643	Rim to invert	Grade to invert	Rim to grade Ft
Northing	Easting	Elevation	
Down 1642	Rim to invert	Grade to invert	Rim to grade Ft
Northing	Easting	Elevation	
Coordinate System		Vertical Datum	
GPS Accuracy		Structural	O & M
Additional info Reverse set up on sheet:451		Miscellaneous	Constructional

Count Video	CD Code	Val1	Val2	%	Jnt	Fr	To	ImRef	Remarks
0.0	ST								Start of Survey
0.0	AMH								Manhole 1643
0.0	MWL			10.000					Miscellaneous Water Level
9.3	TBA	4.000				03			Tap Break-in Activity
39.2	RMJ			5.000	J	02	03		Roots Medium Joint
42.4	RFJ				J	10			Roots Fine Joint
64.0	RFJ				J	02			Roots Fine Joint
75.8	RFJ				J	09	11		Roots Fine Joint
103.3	RFJ				J	03			Roots Fine Joint
105.4	TBI	4.000	1.000			03			Tap Break-in Intruding
105.6	CL				J	03			Crack Longitudinal
105.9	FS				J	12	02		Fracture Spiral
120.7	MSA								Miscellaneous Survey Abandoned

120.7 Ft Total Length Surveyed

Scores	Structural:	Pipe Rating 5	Pipe Ratings Index 2.5	Quick Rating 3121
	O&M:	Pipe Rating 10	Pipe Ratings Index 1.7	Quick Rating 3214
	Overall	Pipe Rating 15	Pipe Ratings Index 1.9	Quick Rating 3321

Counter: 70.6

Code: B

Percent:

From: 12

To: 12

Remarks:

05:43

05.06.15

LC1: 070.60 ft

Counter:70.6

Code:B

Percent:

From:12

To:12

Remarks:

000.43

000.06.16

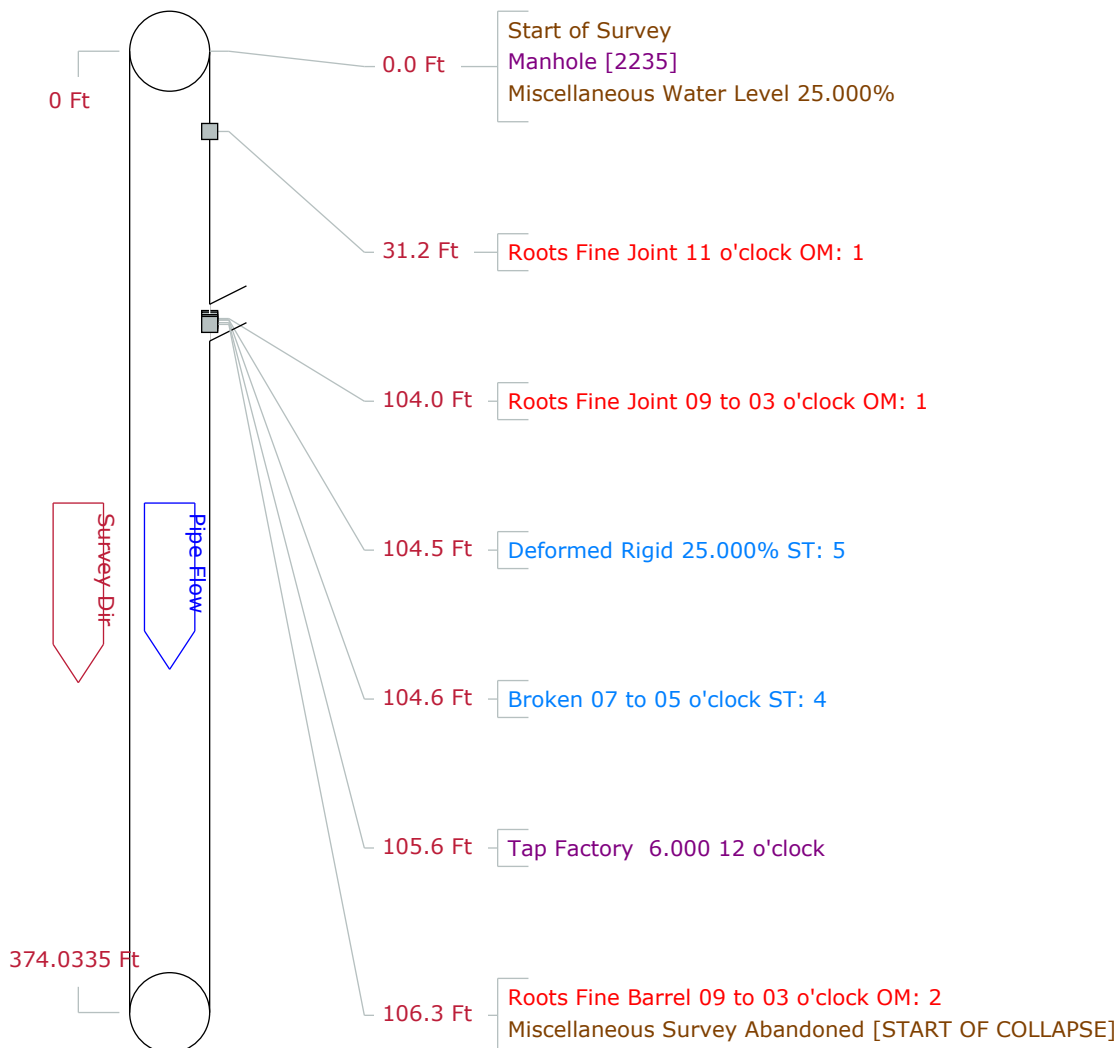
LC1: 071.80 ft

Buena Vista Dr. - Spot Replacement - MH2235 to 2234

Pipe Graphic Report of PLR 4331

for Hillsdale

Setup	469/4	Surveyed By	AGS	Certificate #	U61406021126	Owner	
Reviewed By		Reviewer #		Work Order			
Customer				P/O #			
Media Label		Project	SANITARY				
Date	2021/06/01	Time	12:21	Weather	Dry - no Precipitation	Pre-Cleaning	N
Flow control		Survey Purpose				Date Cleaned	
Street	BUENA VISTA DR	City	HILLSDALE	Drainage area			
Location Code		Pipe Use	Sanitary Sewage Pipe				
Location details		Height	8	Width	ins		
Shape	Circular	Material	Vitrified Clay Pipe	Lining			
Coating		Pipe Joint length	Ft	Total length	374.0	Ft	Structural O & M
Length Surveyed	106.30	Year Constructed		Year Renewed			Miscellaneous Constructional
Additional info							
Up	2235	Rim to invert		Grade to invert		Rim to grade	Ft
Down	2234	Rim to invert		Grade to invert		Rim to grade	Ft



Tabular Report of PSR 4331

for Hillsdale

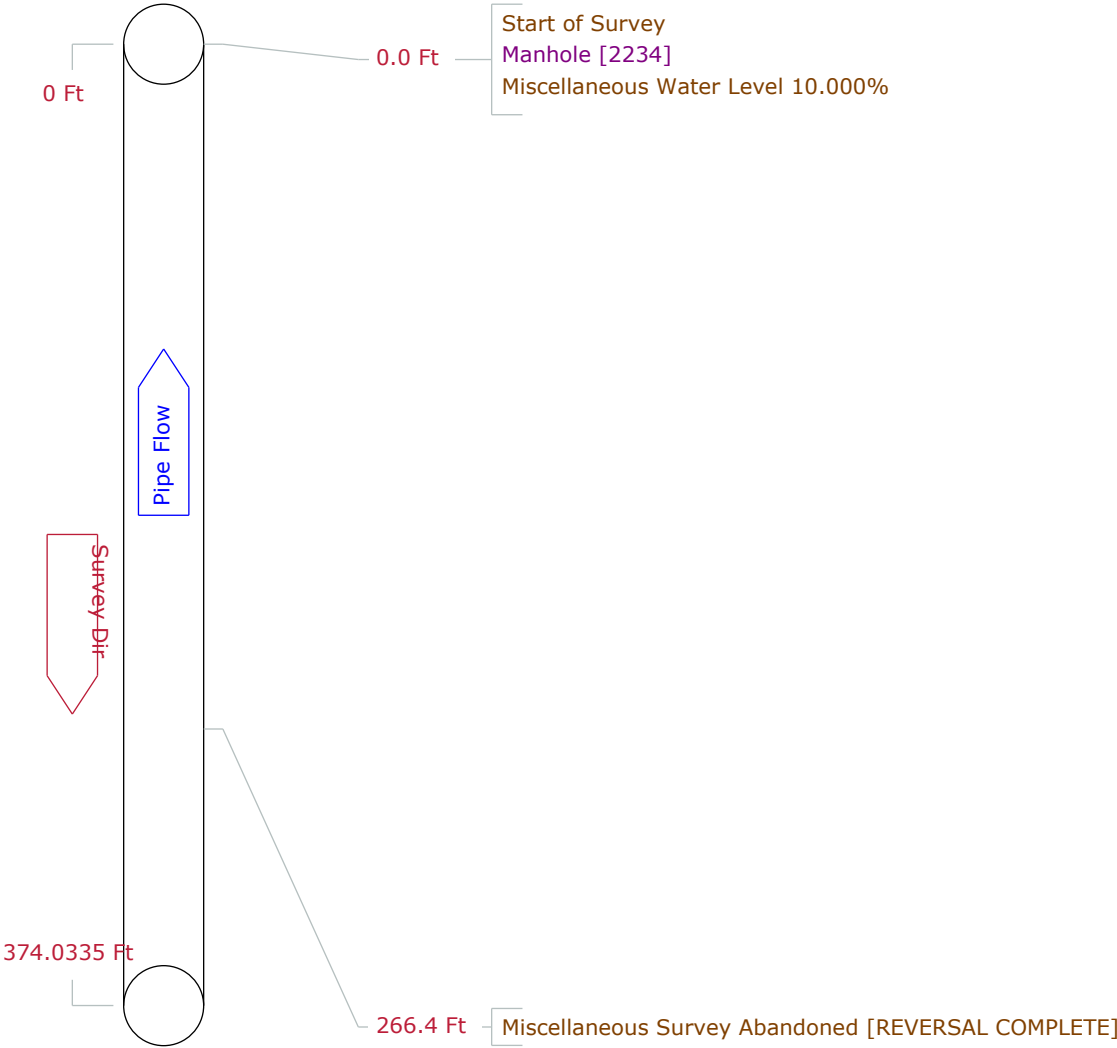
Setup 469	Surveyed By AGS	Certificate # U61406021126	Owner
Reviewed By	Reviewer #	Work Order	
Customer		P/O #	
Media Label	Project SANITARY		
Date 2021/06/01	Time 12:21	Weather Dry - no Precipitation	Pre-Cleaning N
Flow control	Survey Purpose		Date Cleaned
Inspection Status Complete Inspection	Consequence Of Failure	Pressure	Direction Down
Inspection Technology Used	<input type="checkbox"/> CCTV <input type="checkbox"/> Laser <input type="checkbox"/> Sonar <input type="checkbox"/> Sidewall <input type="checkbox"/> Zoom <input type="checkbox"/> Other		
Street BUENA VISTA DR	City HILLSDALE	Drainage area	
Location Code		Pipe Use Sanitary Sewage Pipe	
Location details		Height 8	Width ins
Shape Circular	Material Vitrified Clay Pipe	Lining	
Coating	Pipe Joint length	Ft	Total length 374.0 Ft
Length Surveyed 106.3 Ft	Year Constructed	Year Renewed	
Up 2235	Rim to invert	Grade to invert	Rim to grade Ft
Northing	Easting	Elevation	
Down 2234	Rim to invert	Grade to invert	Rim to grade Ft
Northing	Easting	Elevation	
Coordinate System	Vertical Datum		
GPS Accuracy	Structural O & M Miscellaneous Constructional		
Additional info			

Count Video	CD Code	Val1	Val2	%	Jnt	Fr	To	ImRef	Remarks
0.0	ST	Start of Survey							
0.0	AMH	Manhole							2235
0.0	MWL	Miscellaneous Water Level		25.000					
31.2	RFJ	Roots Fine Joint			J	11			
104.0	RFJ	Roots Fine Joint			J	09	03		
104.5	DR	Deformed Rigid		25.000					
104.6	B	Broken			J	07	05		
105.6	TF	Tap Factory	6.000			12			
106.3	RFB	Roots Fine Barrel				09	03		
106.3	MSA	Miscellaneous Survey Abandoned							START OF COLLAPSE

106.3 Ft Total Length Surveyed

Scores	Structural:	Pipe Rating 9	Pipe Ratings Index 4.5	Quick Rating 5141
	O&M:	Pipe Rating 4	Pipe Ratings Index 1.3	Quick Rating 2112
	Overall	Pipe Rating 13	Pipe Ratings Index 2.6	Quick Rating 5141

Setup	470/4	Surveyed By	AGS	Certificate #	U61406021126	Owner	
Reviewed By		Reviewer #		Work Order			
Customer				P/O #			
Media Label		Project	SANITARY				
Date	2021/06/01	Time	12:33	Weather	Dry - no Precipitation	Pre-Cleaning	N
Flow control		Survey Purpose				Date Cleaned	
Street	BUENA VISTA DR	City	HILLSDALE	Drainage area			
Location Code		Pipe Use	Sanitary Sewage Pipe				
Location details		Height	8	Width	ins		
Shape	Circular	Material	Vitrified Clay Pipe	Lining			
Coating		Pipe Joint length	Ft	Total length	374.0	Ft	Structural O & M
Length Surveyed	266.40	Year Constructed		Year Renewed			Miscellaneous Constructional
Additional info	Reverse set up on sheet:391						
Up	2235	Rim to invert		Grade to invert		Rim to grade	Ft
Down	2234	Rim to invert		Grade to invert		Rim to grade	Ft



Tabular Report of PSR 4331
for Hillsdale

Setup 470	Surveyed By AGS	Certificate # U61406021126	Owner
Reviewed By	Reviewer #	Work Order	
Customer		P/O #	
Media Label	Project SANITARY		
Date 2021/06/01	Time 12:33	Weather Dry - no Precipitation	Pre-Cleaning N
Flow control	Survey Purpose		Date Cleaned
Inspection Status Complete Inspection	Consequence Of Failure	Pressure	
Inspection Technology Used	<input type="checkbox"/> CCTV <input type="checkbox"/> Laser <input type="checkbox"/> Sonar <input type="checkbox"/> Sidewall <input type="checkbox"/> Zoom <input type="checkbox"/> Other		
Street BUENA VISTA DR	City HILLSDALE	Drainage area	
Location Code		Pipe Use Sanitary Sewage Pipe	
Location details		Height 8	Width ins
Shape Circular	Material Vitrified Clay Pipe	Lining	
Coating	Pipe Joint length Ft	Total length 374.0	Ft
Length Surveyed 266.4 Ft	Year Constructed	Year Renewed	
Up 2235	Rim to invert	Grade to invert	Rim to grade Ft
Northing	Easting	Elevation	
Down 2234	Rim to invert	Grade to invert	Rim to grade Ft
Northing	Easting	Elevation	
Coordinate System	Vertical Datum		
GPS Accuracy	<div> Structural O & M </div>		
Additional info Reverse set up on sheet:391	<div> Miscellaneous Constructional </div>		

Count Video	CD	Code	Val1	Val2	%	Jnt	Fr	To	ImRef	Remarks
0.0		ST Start of Survey								
0.0		AMH Manhole								2234
0.0		MWL Miscellaneous Water Level			10.000					
266.4		MSA Miscellaneous Survey Abandoned								REVERSAL COMPLETE

266.4 Ft Total Length Surveyed

Scores	Structural:	Pipe Rating 0	Pipe Ratings Index 0	Quick Rating 0000
	O&M:	Pipe Rating 0	Pipe Ratings Index 0	Quick Rating 0000
	Overall	Pipe Rating 0	Pipe Ratings Index	Quick Rating 0000

Counter:104.6
Code:B
Percent:



23:52

05.94

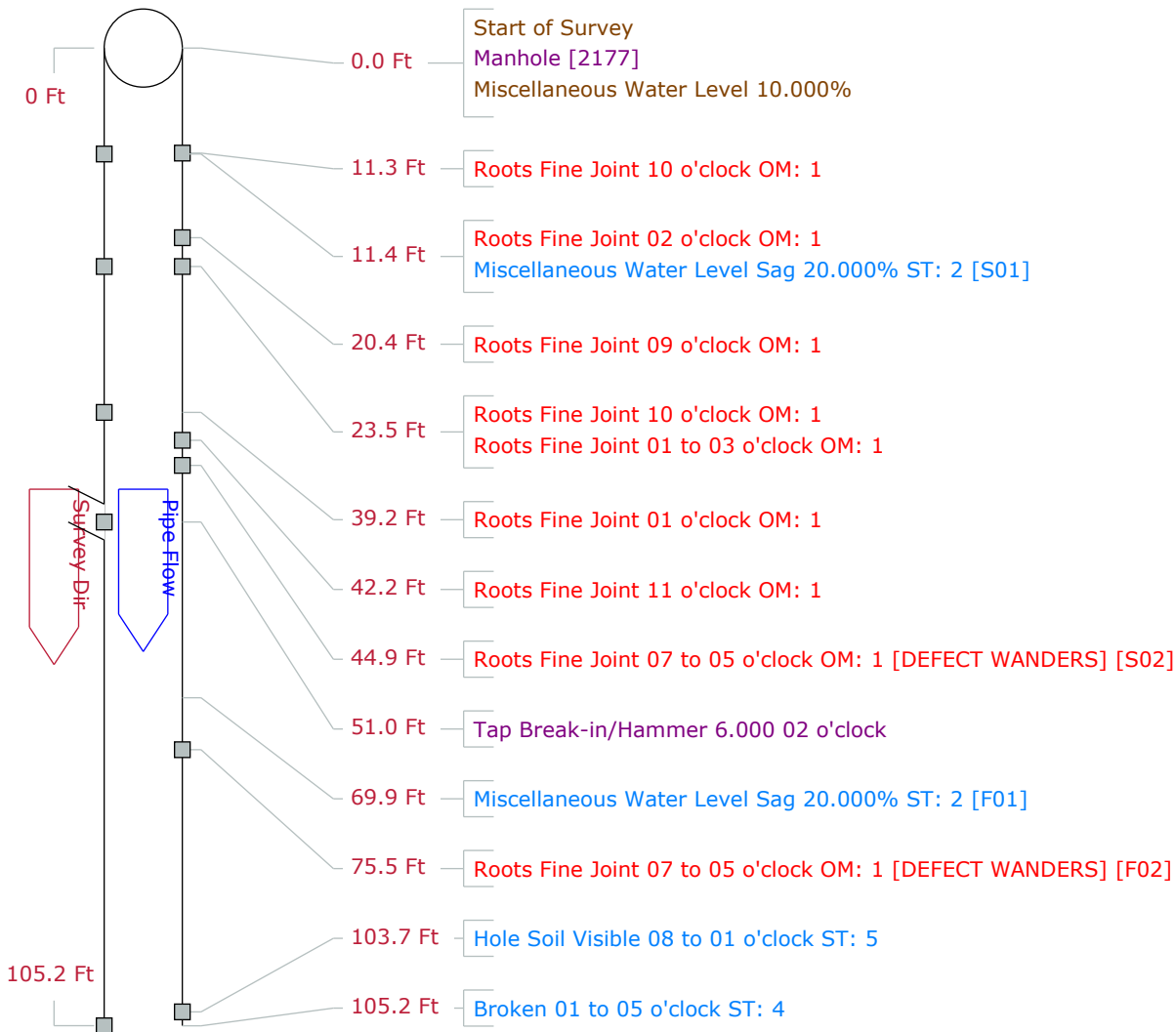
LC1: 104.60 ft

Division St. - Spot Replacement - MH2177 to 2188

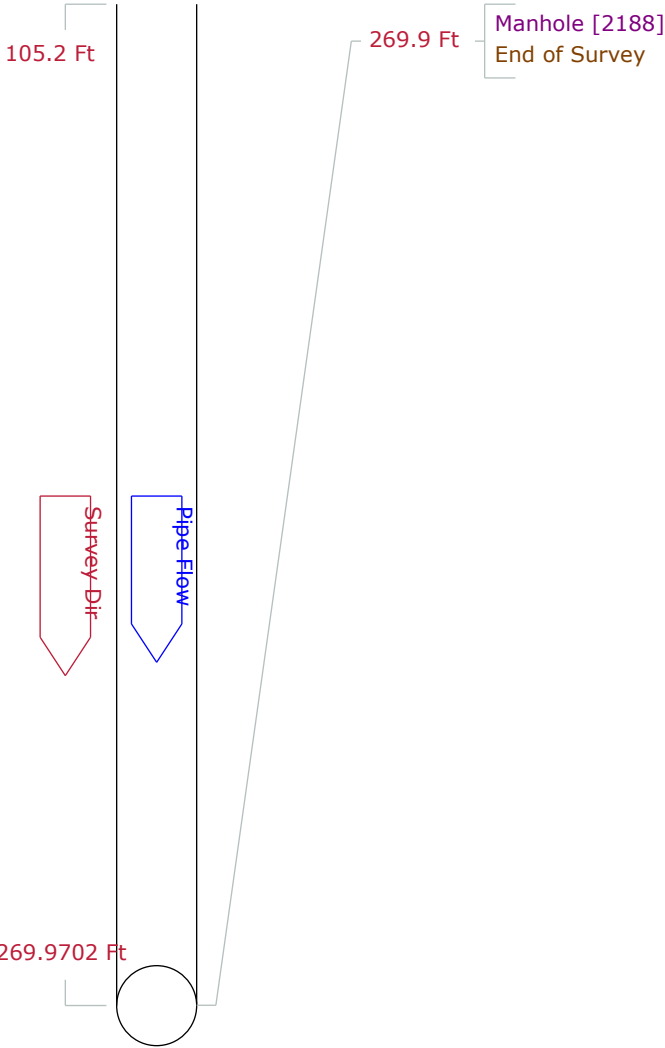
Pipe Graphic Report of PLR 4177

for Hillsdale

Setup	940	Surveyed By	DLT	Certificate #	U-0717-07008329	Owner	
Reviewed By		Reviewer #		Work Order			
Customer				P/O #			
Media Label		Project	SANITARY				
Date	2021/08/13	Time	13:31	Weather	Dry - no Precipitation	Pre-Cleaning	H
Flow control		Survey Purpose				Date Cleaned	
Street	DIVISION	City	HILLSDALE	Drainage area			
Location Code		Pipe Use	Sanitary Sewage Pipe				
Location details		Height	8	Width	ins		
Shape	Circular	Material	Vitrified Clay Pipe	Lining			
Coating		Pipe Joint length	Ft	Total length	270.0	Ft	Structural O & M
Length Surveyed	269.90	Year Constructed		Year Renewed			Miscellaneous Constructional
Additional info							
Up	2177	Rim to invert		Grade to invert		Rim to grade	Ft
Down	2188	Rim to invert		Grade to invert		Rim to grade	Ft



Setup	940	Surveyed By	DLT	Certificate #	U-0717-07008329	Owner	
Reviewed By		Reviewer #		Work Order			
Customer				P/O #			
Media Label		Project	SANITARY				
Date	2021/08/13	Time	13:31	Weather	Dry - no Precipitation	Pre-Cleaning	H
Flow control		Survey Purpose				Date Cleaned	
Street	DIVISION	City	HILLSDALE	Drainage area			
Location Code		Pipe Use	Sanitary Sewage Pipe				
Location details		Height	8	Width	ins		
Shape	Circular	Material	Vitrified Clay Pipe	Lining			
Coating		Pipe Joint length	Ft	Total length	270.0	Ft	Structural O & M
Length Surveyed	269.90	Year Constructed		Year Renewed			Miscellaneous Constructional
Additional info							
Up	2177	Rim to invert		Grade to invert		Rim to grade	Ft
Down	2188	Rim to invert		Grade to invert		Rim to grade	Ft



Tabular Report of PSR 4177

for Hillsdale

Setup 940	Surveyed By DLT	Certificate # U-0717-07008329	Owner
Reviewed By	Reviewer #	Work Order	
Customer		P/O #	
Media Label	Project SANITARY		
Date 2021/08/13	Time 13:31	Weather Dry - no Precipitation	Pre-Cleaning H
Flow control	Survey Purpose		Date Cleaned
Inspection Status Complete Inspection	Consequence Of Failure	Pressure	Direction Down
Inspection Technology Used	<input type="checkbox"/> CCTV <input type="checkbox"/> Laser <input type="checkbox"/> Sonar <input type="checkbox"/> Sidewall <input type="checkbox"/> Zoom <input type="checkbox"/> Other		
Street DIVISION	City HILLSDALE	Drainage area	
Location Code		Pipe Use Sanitary Sewage Pipe	
Location details		Height 8	Width ins
Shape Circular	Material Vitrified Clay Pipe	Lining	
Coating	Pipe Joint length	Ft	Total length 270.0 Ft
Length Surveyed 269.9 Ft	Year Constructed		Year Renewed
Up 2177	Rim to invert	Grade to invert	Rim to grade Ft
Northing	Easting	Elevation	
Down 2188	Rim to invert	Grade to invert	Rim to grade Ft
Northing	Easting	Elevation	
Coordinate System		Vertical Datum	
GPS Accuracy		Structural	O & M
Additional info		Miscellaneous	Constructional

Count	Video	CD Code	Val1	Val2	%	Jnt	Fr	To	ImRef	Remarks
0.0		ST	Start of Survey							
0.0		AMH	Manhole							2177
0.0		MWL	Miscellaneous Water Level		10.000					
11.3		RFJ	Roots Fine Joint			J	10			
11.4		RFJ	Roots Fine Joint			J	02			
11.4		S01	MWLS Miscellaneous Water Level Sag		20.000					
20.4		RFJ	Roots Fine Joint			J	09			
23.5		RFJ	Roots Fine Joint			J	10			
23.5		RFJ	Roots Fine Joint			J	01	03		
39.2		RFJ	Roots Fine Joint			J	01			
42.2		RFJ	Roots Fine Joint			J	11			
44.9		S02	RFJ Roots Fine Joint			J	07	05		DEFECT WANDERS
51.0		TB	Tap Break-in/Hammer	6.000			02			
69.9		F01	MWLS Miscellaneous Water Level Sag		20.000					
75.5		F02	RFJ Roots Fine Joint			J	07	05		DEFECT WANDERS
103.7		HSV	Hole Soil Visible				08	01		
105.2		B	Broken				01	05		
269.9		AMH	Manhole							2188
269.9		FH	End of Survey							


269.9 Ft Total Length Surveyed

Tabular Report of PSR 4177**for Hillsdale**

Setup	940	Date	2021/08/13	Time	13:31	Up	2177	Down	2188
--------------	-----	-------------	------------	-------------	-------	-----------	------	-------------	------

Scores

Structural:	Pipe Rating	33	Pipe Ratings Index	2.4	Quick Rating	5141
O&M:	Pipe Rating	13	Pipe Ratings Index	1	Quick Rating	1A00
Overall	Pipe Rating	46	Pipe Ratings Index	1.7	Quick Rating	5141



Counter:103.7

Code:HSV

Percent:

From:08

To:01

12:34

08.13.21

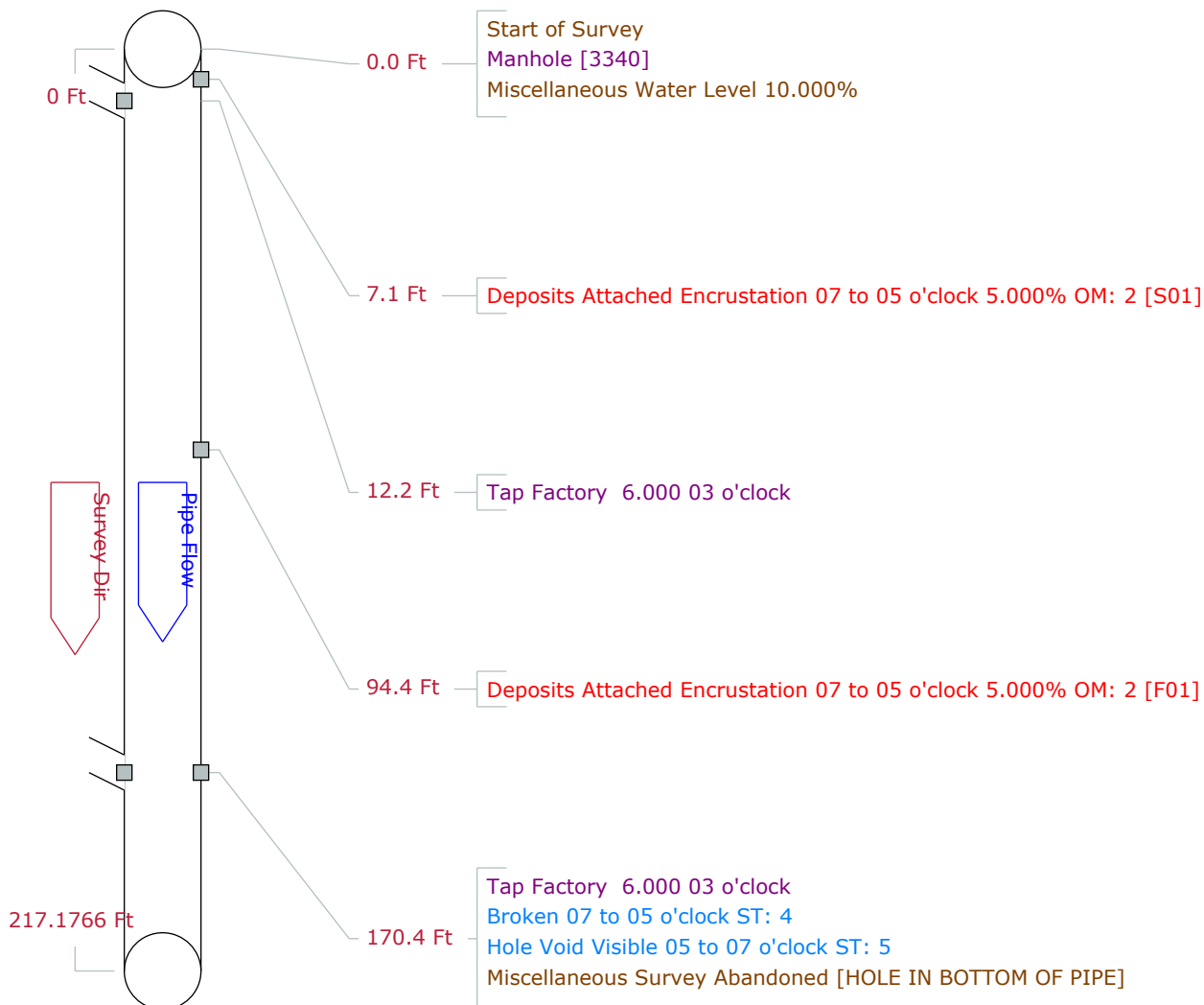
LC1: + 0103.70 ft

Heathcliff (at Bacon) - Spot Replacement - MH3340 to 3455

Pipe Graphic Report of PLR 3898

for Hillsdale

Setup	662/6	Surveyed By	AGS	Certificate #	U61406021126	Owner	
Reviewed By		Reviewer #		Work Order			
Customer				P/O #			
Media Label		Project	SANITARY				
Date	2021/06/22	Time	10:32	Weather	Dry - no Precipitation	Pre-Cleaning	L
Flow control		Survey Purpose				Date Cleaned	
Street	HEATHCLIFF DR	City	HILLSDALE	Drainage area			
Location Code		Pipe Use	Sanitary Sewage Pipe				
Location details		Height	8	Width	ins		
Shape	Circular	Material	Vitrified Clay Pipe	Lining			
Coating		Pipe Joint length	Ft	Total length	217.2	Ft	Structural O & M
Length Surveyed	170.40	Year Constructed		Year Renewed			Miscellaneous Constructional
Additional info							
Up	3340	Rim to invert		Grade to invert		Rim to grade	Ft
Down	3455	Rim to invert		Grade to invert		Rim to grade	Ft



Tabular Report of PSR 3898

for Hillsdale

Setup 662	Surveyed By AGS	Certificate # U61406021126	Owner
Reviewed By	Reviewer #	Work Order	
Customer		P/O #	
Media Label	Project SANITARY		
Date 2021/06/22	Time 10:32	Weather Dry - no Precipitation	Pre-Cleaning L
Flow control	Survey Purpose		Date Cleaned
Inspection Status Complete Inspection	Consequence Of Failure	Pressure	Direction Down
Inspection Technology Used	<input type="checkbox"/> CCTV <input type="checkbox"/> Laser <input type="checkbox"/> Sonar <input type="checkbox"/> Sidewall <input type="checkbox"/> Zoom <input type="checkbox"/> Other		
Street HEATHCLIFF DR	City HILLSDALE	Drainage area	
Location Code		Pipe Use Sanitary Sewage Pipe	
Location details		Height 8	Width ins
Shape Circular	Material Vitrified Clay Pipe	Lining	
Coating	Pipe Joint length	Ft	Total length 217.2 Ft
Length Surveyed 170.4 Ft	Year Constructed		Year Renewed
Up 3340	Rim to invert	Grade to invert	Rim to grade Ft
Northing	Easting	Elevation	
Down 3455	Rim to invert	Grade to invert	Rim to grade Ft
Northing	Easting	Elevation	
Coordinate System		Vertical Datum	
GPS Accuracy		Structural	O & M
Additional info		Miscellaneous	Constructional

Count Video	CD Code	Val1	Val2	%	Jnt	Fr	To	ImRef	Remarks
0.0	ST	Start of Survey							
0.0	AMH	Manhole							3340
0.0	MWL	Miscellaneous Water Level		10.000					
7.1	S01	DAE	Deposits Attached Encrustation	5.000	J	07	05		
12.2	TF	Tap Factory	6.000			03			
94.4	F01	DAE	Deposits Attached Encrustation	5.000	J	07	05		
170.4	TF	Tap Factory	6.000			03			
170.4	B	Broken			J	07	05		
170.4	HVV	Hole Void Visible			J	05	07		
170.4	MSA	Miscellaneous Survey Abandoned							HOLE IN BOTTOM OF PIPE

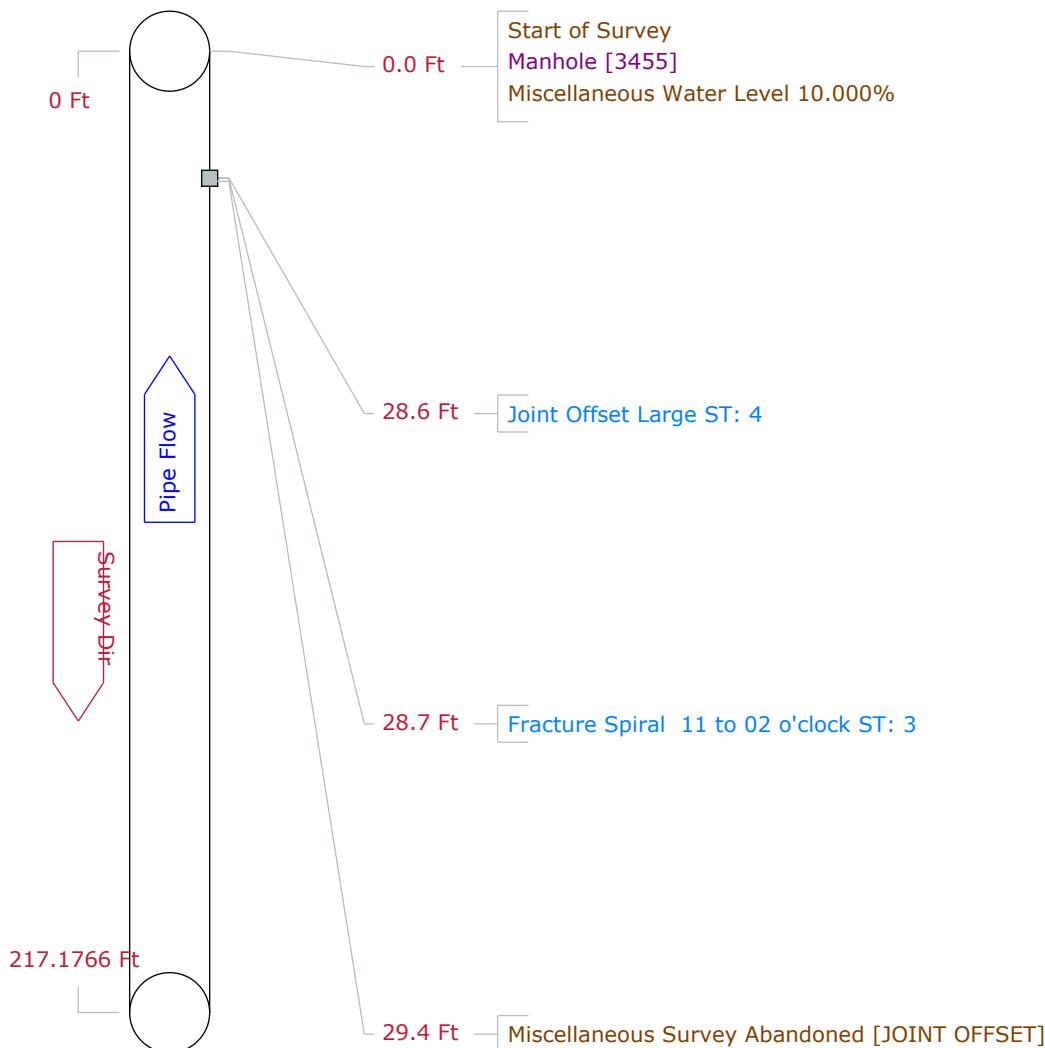
170.4 Ft Total Length Surveyed

Scores	Structural:	Pipe Rating 9	Pipe Ratings Index 4.5	Quick Rating 5141
	O&M:	Pipe Rating 34	Pipe Ratings Index 2	Quick Rating 2B00
	Overall	Pipe Rating 43	Pipe Ratings Index 2.3	Quick Rating 5141

Pipe Graphic Report of PLR 3898

for Hillsdale

Setup	663/6	Surveyed By	AGS	Certificate #	U61406021126	Owner	
Reviewed By		Reviewer #		Work Order			
Customer				P/O #			
Media Label		Project	SANITARY				
Date	2021/06/22	Time	10:43	Weather	Dry - no Precipitation	Pre-Cleaning	L
Flow control		Survey Purpose				Date Cleaned	
Street	HEATHCLIFF DR	City	HILLSDALE	Drainage area			
Location Code		Pipe Use	Sanitary Sewage Pipe				
Location details		Height	8	Width	ins		
Shape	Circular	Material	Vitrified Clay Pipe	Lining			
Coating		Pipe Joint length	Ft	Total length	217.2	Ft	Structural O & M
Length Surveyed	29.40	Year Constructed		Year Renewed			Miscellaneous Constructional
Additional info	Reverse set up on sheet:592						
Up	3340	Rim to invert		Grade to invert		Rim to grade	Ft
Down	3455	Rim to invert		Grade to invert		Rim to grade	Ft



Tabular Report of PSR 3898
for Hillsdale

Setup 663	Surveyed By AGS	Certificate # U61406021126	Owner
Reviewed By	Reviewer #	Work Order	
Customer		P/O #	
Media Label	Project SANITARY		
Date 2021/06/22	Time 10:43	Weather Dry - no Precipitation	Pre-Cleaning L
Flow control	Survey Purpose		Date Cleaned
Inspection Status Complete Inspection	Consequence Of Failure	Pressure	
Inspection Technology Used	<input type="checkbox"/> CCTV <input type="checkbox"/> Laser <input type="checkbox"/> Sonar <input type="checkbox"/> Sidewall <input type="checkbox"/> Zoom <input type="checkbox"/> Other		
Street HEATHCLIFF DR	City HILLSDALE	Drainage area	
Location Code		Pipe Use Sanitary Sewage Pipe	
Location details		Height 8	Width ins
Shape Circular	Material Vitrified Clay Pipe	Lining	
Coating	Pipe Joint length Ft	Total length 217.2	Ft
Length Surveyed 29.4 Ft	Year Constructed	Year Renewed	
Up 3340	Rim to invert	Grade to invert	Rim to grade Ft
Northing	Easting	Elevation	
Down 3455	Rim to invert	Grade to invert	Rim to grade Ft
Northing	Easting	Elevation	
Coordinate System	Vertical Datum		
GPS Accuracy	<div> Structural O & M Miscellaneous Constructional </div>		
Additional info	Reverse set up on sheet:592		

Count	Video	CD	Code	Val1	Val2	%	Jnt	Fr	To	ImRef	Remarks
0.0			ST Start of Survey								
0.0			AMH Manhole								3455
0.0			MWL Miscellaneous Water Level			10.000					
28.6			JOL Joint Offset Large								
28.7			FS Fracture Spiral				J	11	02		
29.4			MSA Miscellaneous Survey Abandoned								JOINT OFFSET

29.4 Ft Total Length Surveyed

Scores	Structural:	Pipe Rating 7	Pipe Ratings Index 3.5	Quick Rating 4131
	O&M:	Pipe Rating 0	Pipe Ratings Index 0	Quick Rating 0000
	Overall	Pipe Rating 7	Pipe Ratings Index 3.5	Quick Rating 4131

Counter:170.4

Code:B

Percent:

From:07

To:05

Remarks:



03:28

01.01.94

Egt: 170.40 ft

City:HILLSDALE Street:HEATHCLIFF DR

From MH:3340 Dir:D To MH:3455

Mat:VCP Size:ins



03:32

01.01.94

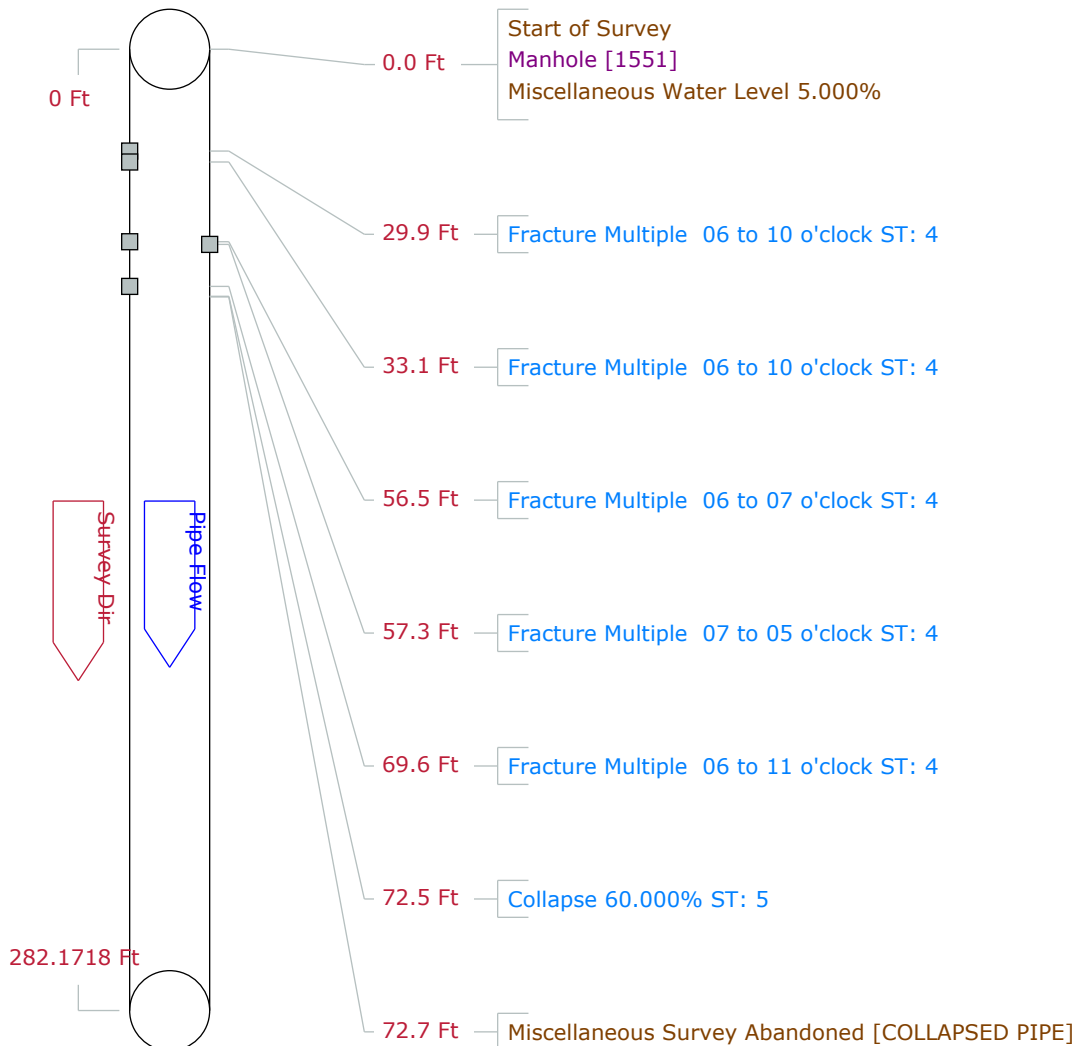
LC1: 169.40 ft

Mechanic St - Full Replacement - MH1551 to 1552

Pipe Graphic Report of PLR 3682

for Hillsdale

Setup	782	Surveyed By	AGS	Certificate #	U61406021126	Owner	
Reviewed By		Reviewer #		Work Order			
Customer				P/O #			
Media Label		Project	SANITARY				
Date	2021/07/08	Time	2:53	Weather	Dry - no Precipitation	Pre-Cleaning	N
Flow control		Survey Purpose				Date Cleaned	
Street	MECHANIC RD	City	HILLSDALE	Drainage area			
Location Code		Pipe Use	Sanitary Sewage Pipe				
Location details		Height	8	Width	ins		
Shape	Circular	Material	Vitrified Clay Pipe	Lining			
Coating		Pipe Joint length	Ft	Total length	282.2	Ft	Structural O & M
Length Surveyed	72.70	Year Constructed		Year Renewed			Miscellaneous Constructional
Additional info							
Up	1551	Rim to invert		Grade to invert		Rim to grade	Ft
Down	1552	Rim to invert		Grade to invert		Rim to grade	Ft



Tabular Report of PSR 3682
for Hillsdale

Setup 782	Surveyed By AGS	Certificate # U61406021126	Owner
Reviewed By	Reviewer #	Work Order	
Customer		P/O #	
Media Label	Project SANITARY		
Date 2021/07/08	Time 2:53	Weather Dry - no Precipitation	Pre-Cleaning N
Flow control	Survey Purpose		Date Cleaned
Inspection Status Complete Inspection	Consequence Of Failure	Pressure	
Inspection Technology Used	<input type="checkbox"/> CCTV <input type="checkbox"/> Laser <input type="checkbox"/> Sonar <input type="checkbox"/> Sidewall <input type="checkbox"/> Zoom <input type="checkbox"/> Other		
Street MECHANIC RD	City HILLSDALE	Drainage area	
Location Code		Pipe Use Sanitary Sewage Pipe	
Location details		Height 8	Width ins
Shape Circular	Material Vitrified Clay Pipe	Lining	
Coating	Pipe Joint length Ft	Total length 282.2	Ft
Length Surveyed 72.7 Ft	Year Constructed	Year Renewed	
Up 1551	Rim to invert	Grade to invert	Rim to grade Ft
Northing	Easting	Elevation	
Down 1552	Rim to invert	Grade to invert	Rim to grade Ft
Northing	Easting	Elevation	
Coordinate System	Vertical Datum		
GPS Accuracy	<div> Structural O & M Miscellaneous Constructional </div>		
Additional info			

Count Video	CD Code	Val1	Val2	%	Jnt	Fr	To	ImRef	Remarks
0.0	ST								Start of Survey
0.0	AMH								1551
0.0	MWL			5.000					Miscellaneous Water Level
29.9	FM				J	06	10		Fracture Multiple
33.1	FM				J	06	10		Fracture Multiple
56.5	FM				J	06	07		Fracture Multiple
57.3	FM				J	07	05		Fracture Multiple
69.6	FM				J	06	11		Fracture Multiple
72.5	X			60.000					Collapse
72.7	MSA								Miscellaneous Survey Abandoned

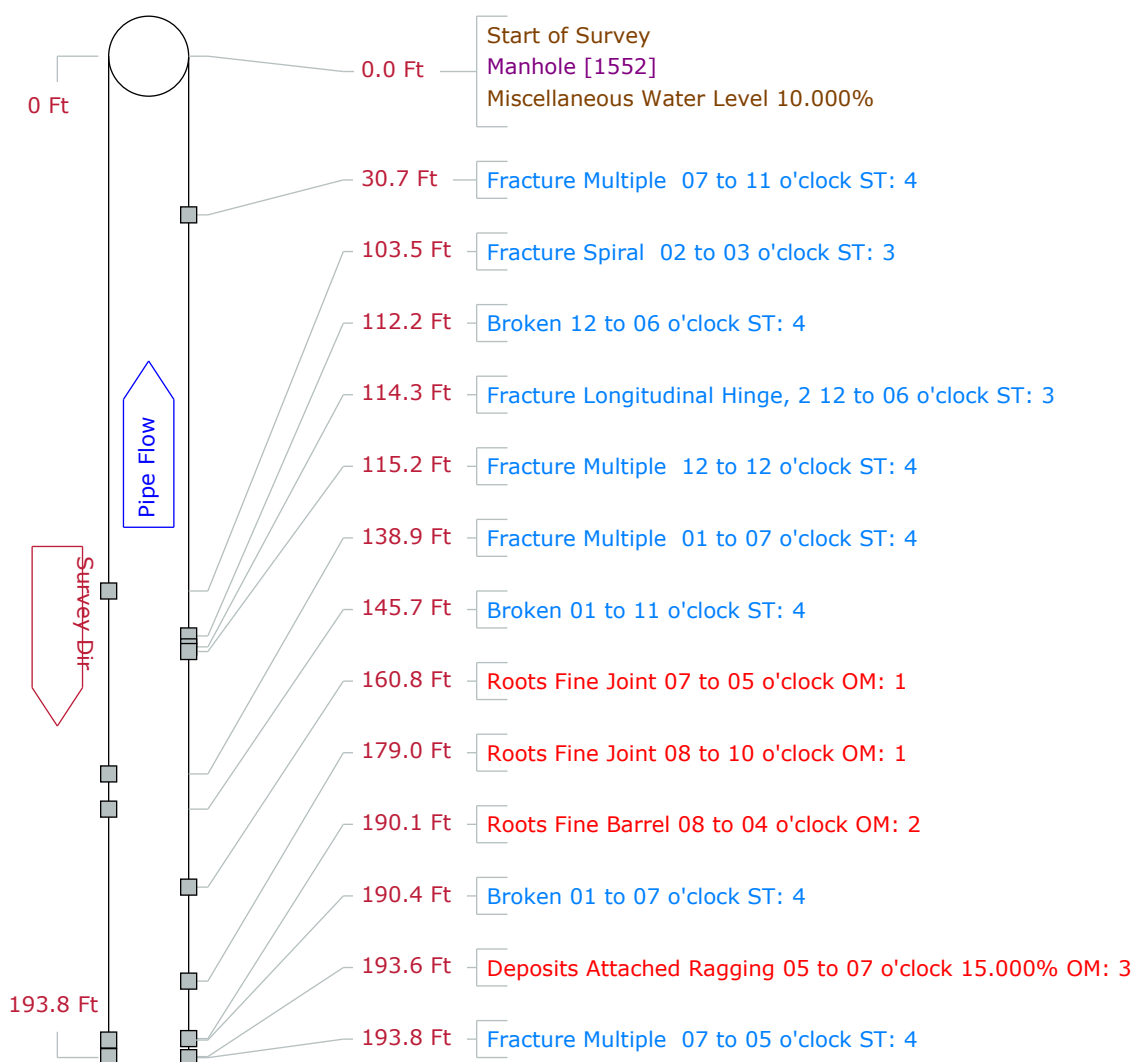
72.7 Ft Total Length Surveyed

Scores	Structural:	Pipe Rating 25	Pipe Ratings Index 4.2	Quick Rating 5145
	O&M:	Pipe Rating 0	Pipe Ratings Index 0	Quick Rating 0000
	Overall	Pipe Rating 25	Pipe Ratings Index 4.2	Quick Rating 5145

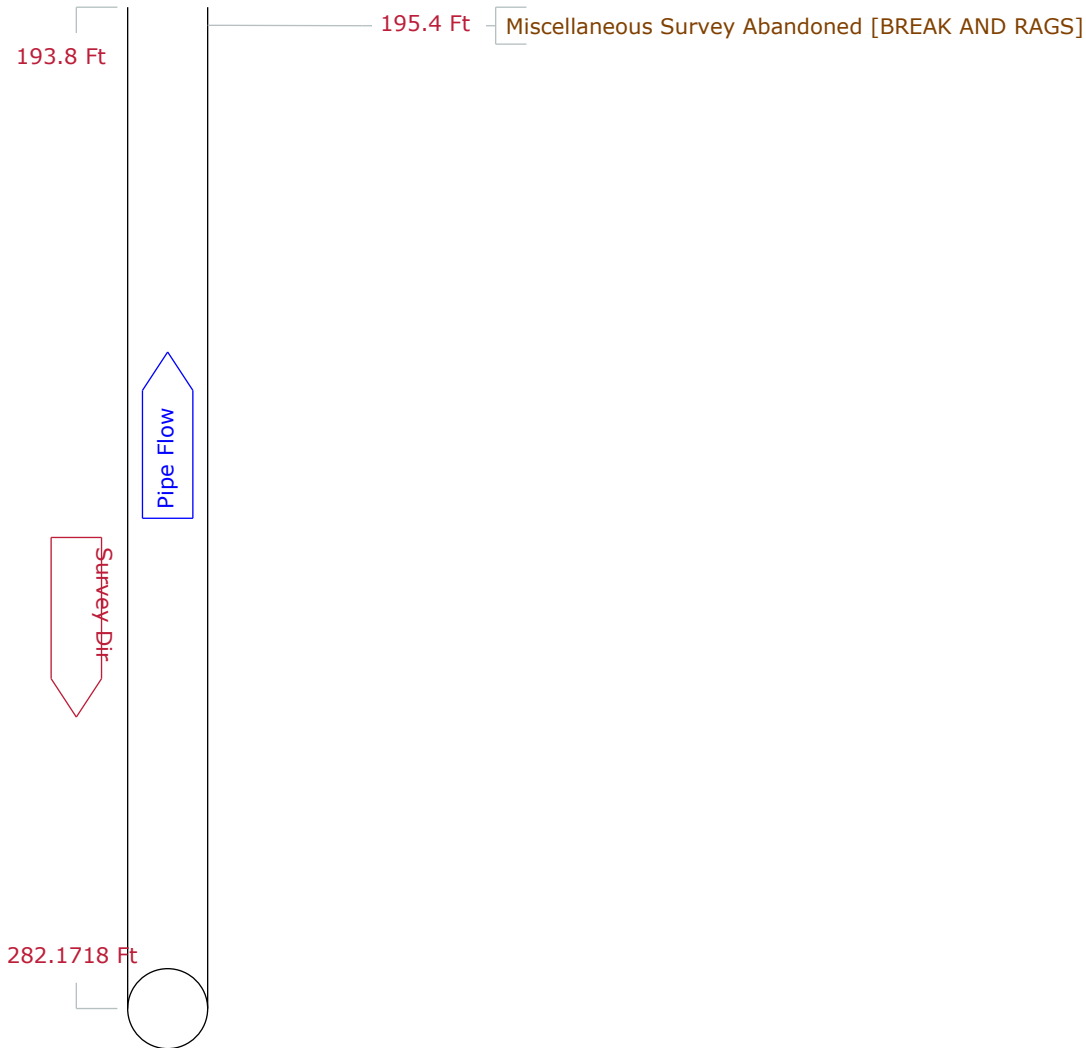
Pipe Graphic Report of PLR 3682

for Hillsdale

Setup	821	Surveyed By	AGS	Certificate #	U61406021126	Owner	
Reviewed By		Reviewer #		Work Order			
Customer				P/O #			
Media Label		Project	SANITARY				
Date	2021/07/15	Time	1:45	Weather	Dry - no Precipitation	Pre-Cleaning	N
Flow control		Survey Purpose				Date Cleaned	
Street	MECHANIC RD	City	HILLSDALE	Drainage area			
Location Code		Pipe Use	Sanitary Sewage Pipe				
Location details		Height	8	Width	ins		
Shape	Circular	Material	Vitrified Clay Pipe	Lining			
Coating		Pipe Joint length	Ft	Total length	282.2	Ft	Structural O & M
Length Surveyed	195.40	Year Constructed		Year Renewed			Miscellaneous Constructional
Additional info	Reverse set up on sheet:735						
Up	1551	Rim to invert		Grade to invert		Rim to grade	Ft
Down	1552	Rim to invert		Grade to invert		Rim to grade	Ft



Setup	821	Surveyed By	AGS	Certificate #	U61406021126	Owner	
Reviewed By		Reviewer #		Work Order			
Customer				P/O #			
Media Label		Project	SANITARY				
Date	2021/07/15	Time	1:45	Weather	Dry - no Precipitation	Pre-Cleaning	N
Flow control		Survey Purpose				Date Cleaned	
Street	MECHANIC RD	City	HILLSDALE	Drainage area			
Location Code		Pipe Use	Sanitary Sewage Pipe				
Location details		Height	8	Width	ins		
Shape	Circular	Material	Vitrified Clay Pipe	Lining			
Coating		Pipe Joint length	Ft	Total length	282.2	Ft	Structural O & M
Length Surveyed	195.40	Year Constructed		Year Renewed			Miscellaneous Constructional
Additional info	Reverse set up on sheet:735						
Up	1551	Rim to invert		Grade to invert		Rim to grade	Ft
Down	1552	Rim to invert		Grade to invert		Rim to grade	Ft



Tabular Report of PSR 3682
for Hillsdale

Setup 821	Surveyed By AGS	Certificate # U61406021126	Owner
Reviewed By	Reviewer #	Work Order	
Customer		P/O #	
Media Label	Project SANITARY		
Date 2021/07/15	Time 1:45	Weather Dry - no Precipitation	Pre-Cleaning N
Flow control	Survey Purpose		Date Cleaned
Inspection Status Complete Inspection	Consequence Of Failure	Pressure	
Inspection Technology Used	<input type="checkbox"/> CCTV <input type="checkbox"/> Laser <input type="checkbox"/> Sonar <input type="checkbox"/> Sidewall <input type="checkbox"/> Zoom <input type="checkbox"/> Other		
Street MECHANIC RD	City HILLSDALE	Drainage area	
Location Code		Pipe Use Sanitary Sewage Pipe	
Location details		Height 8	Width ins
Shape Circular	Material Vitrified Clay Pipe	Lining	
Coating	Pipe Joint length	Ft	Total length 282.2 Ft
Length Surveyed 195.4 Ft	Year Constructed		Year Renewed
Up 1551	Rim to invert	Grade to invert	Rim to grade Ft
Northing	Easting	Elevation	
Down 1552	Rim to invert	Grade to invert	Rim to grade Ft
Northing	Easting	Elevation	
Coordinate System		Vertical Datum	
GPS Accuracy			Structural O & M Miscellaneous Constructional
Additional info	Reverse set up on sheet:735		

Count Video	CD Code	Val1	Val2	%	Jnt	Fr	To	ImRef	Remarks
0.0	ST								Start of Survey
0.0	AMH								Manhole 1552
0.0	MWL			10.000					Miscellaneous Water Level
30.7	FM				J	07	11		Fracture Multiple
103.5	FS				J	02	03		Fracture Spiral
112.2	B				J	12	06		Broken
114.3	FH2				J	12	06		Fracture Longitudinal Hinge, 2
115.2	FM				J	12	12		Fracture Multiple
138.9	FM				J	01	07		Fracture Multiple
145.7	B				J	01	11		Broken
160.8	RFJ				J	07	05		Roots Fine Joint
179.0	RFJ				J	08	10		Roots Fine Joint
190.1	RFB					08	04		Roots Fine Barrel
190.4	B				J	01	07		Broken
193.6	DAR			15.000		05	07		Deposits Attached Ragging
193.8	FM				J	07	05		Fracture Multiple
195.4	MSA								Miscellaneous Survey Abandoned

195.4 Ft Total Length Surveyed

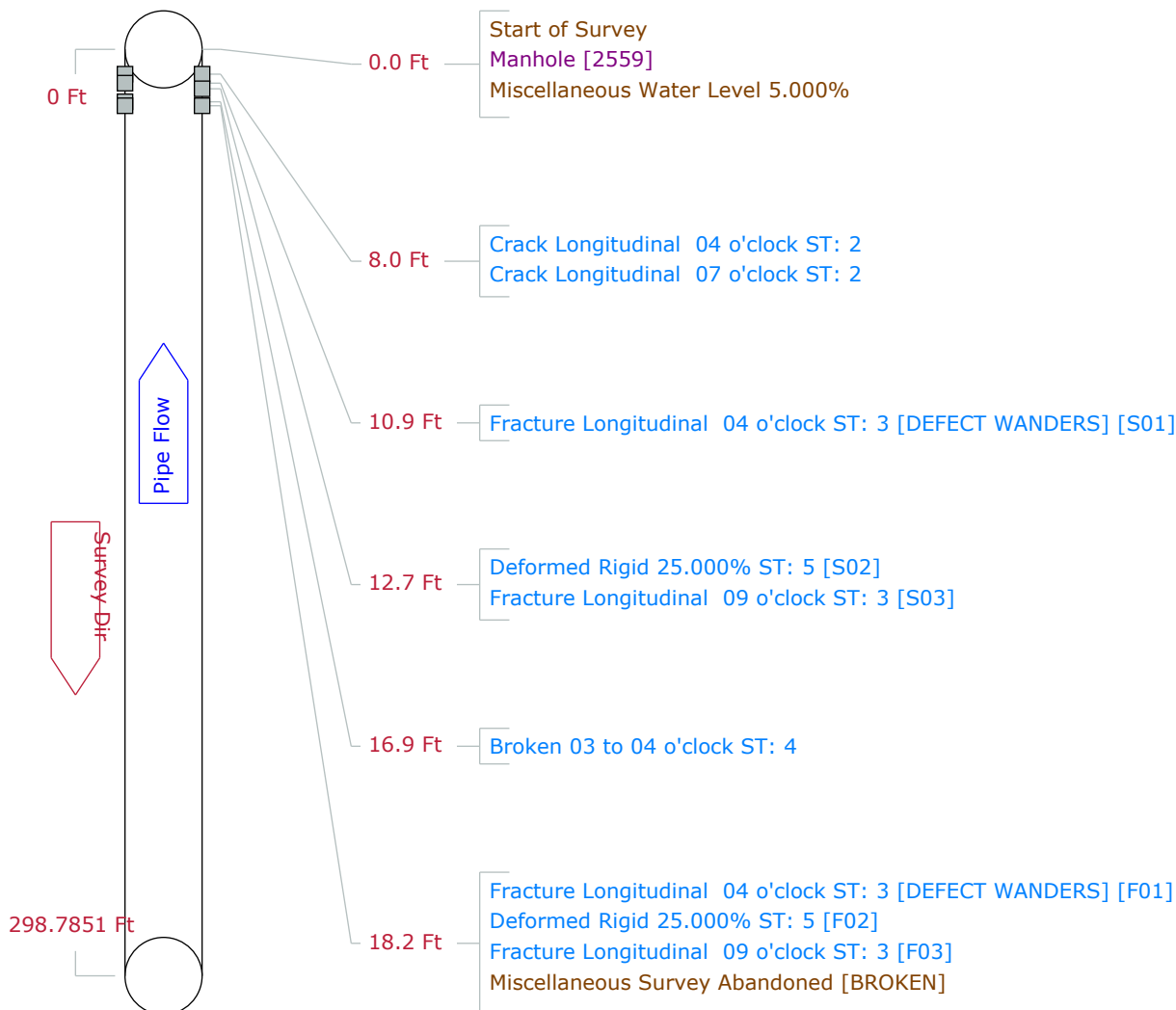
Scores	Structural:	Pipe Rating 34	Pipe Ratings Index 3.8	Quick Rating 4732
	O&M:	Pipe Rating 7	Pipe Ratings Index 1.8	Quick Rating 3121
	Overall	Pipe Rating 41	Pipe Ratings Index 3.2	Quick Rating 4733

W. St. Joe St. - Full Replacement - MH2559 to 2560

Pipe Graphic Report of PLR 4267

for Hillsdale

Setup	461/4	Surveyed By	MJT	Certificate #	U-1220-70400698	Owner	
Reviewed By		Reviewer #		Work Order			
Customer				P/O #			
Media Label		Project	SANITARY				
Date	2021/04/27	Time	9:22	Weather	Dry - no Precipitation	Pre-Cleaning	N
Flow control		Survey Purpose				Date Cleaned	
Street	W ST JOE STREET	City	HILLSDALE	Drainage area			
Location Code		Pipe Use	Sanitary Sewage Pipe				
Location details		Height	8	Width	ins		
Shape	Circular	Material	Vitrified Clay Pipe	Lining			
Coating		Pipe Joint length	Ft	Total length	298.8	Ft	<div style="display: flex; justify-content: space-between;"> Structural O & M </div>
Length Surveyed	18.20	Year Constructed		Year Renewed			<div style="display: flex; justify-content: space-between;"> Miscellaneous Constructional </div>
Additional info	Reverse set up on sheet:57						
Up	2560	Rim to invert		Grade to invert		Rim to grade	Ft
Down	2559	Rim to invert		Grade to invert		Rim to grade	Ft



Tabular Report of PSR 4267
for Hillsdale

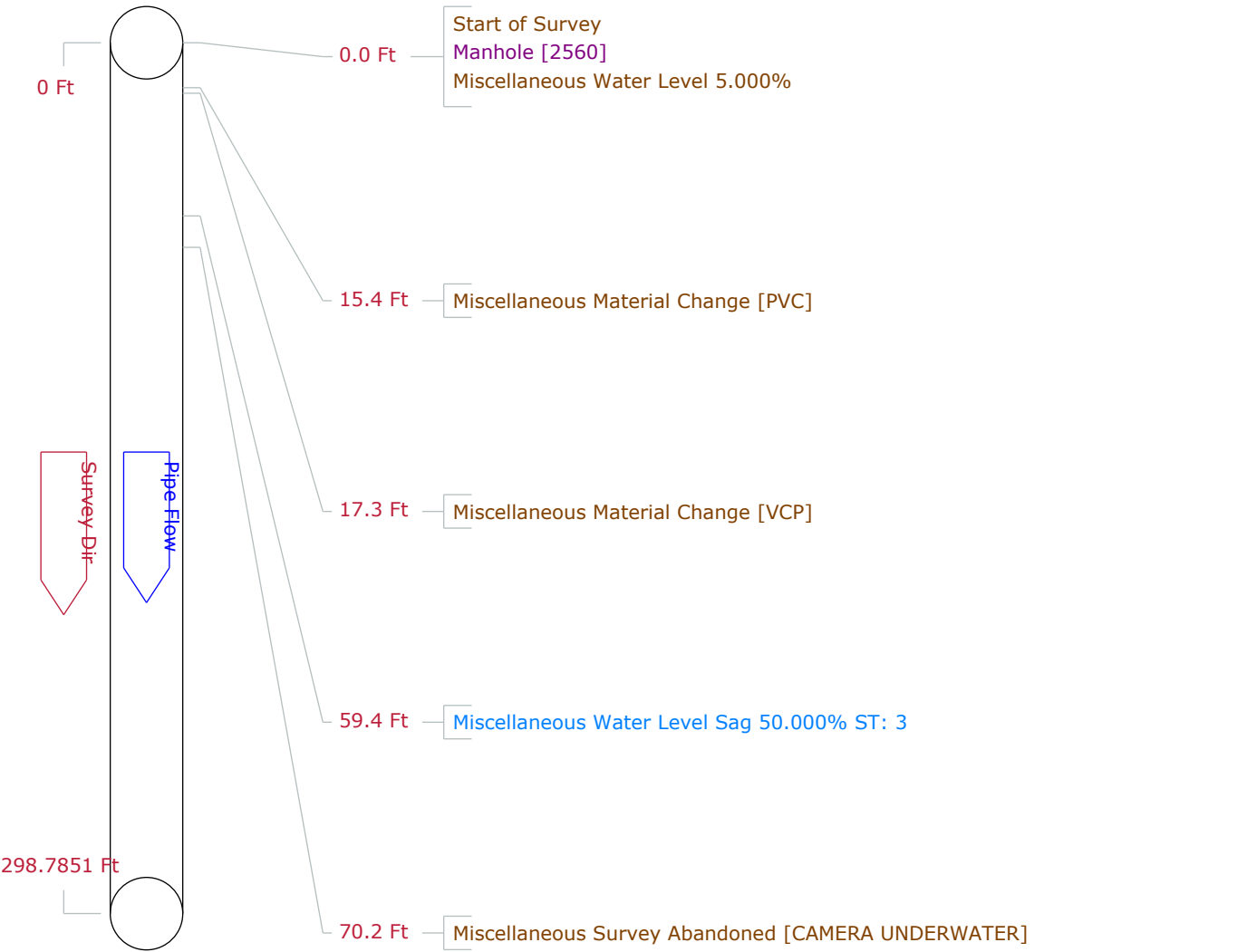
Setup 461	Surveyed By MJT	Certificate # U-1220-70400698	Owner
Reviewed By	Reviewer #	Work Order	
Customer		P/O #	
Media Label	Project SANITARY		
Date 2021/04/27	Time 9:22	Weather Dry - no Precipitation	Pre-Cleaning N
Flow control	Survey Purpose		Date Cleaned
Inspection Status Complete Inspection	Consequence Of Failure	Pressure	
Inspection Technology Used	<input type="checkbox"/> CCTV <input type="checkbox"/> Laser <input type="checkbox"/> Sonar <input type="checkbox"/> Sidewall <input type="checkbox"/> Zoom <input type="checkbox"/> Other		
Street W ST JOE STREET	City HILLSDALE	Drainage area	
Location Code		Pipe Use Sanitary Sewage Pipe	
Location details		Height 8	Width ins
Shape Circular	Material Vitrified Clay Pipe	Lining	
Coating	Pipe Joint length Ft	Total length 298.8	Ft
Length Surveyed 18.2 Ft	Year Constructed	Year Renewed	
Up 2560	Rim to invert	Grade to invert	Rim to grade Ft
Northing	Easting	Elevation	
Down 2559	Rim to invert	Grade to invert	Rim to grade Ft
Northing	Easting	Elevation	
Coordinate System	Vertical Datum		
GPS Accuracy	<div> Structural O & M </div>		
Additional info Reverse set up on sheet:57	<div> Miscellaneous Constructional </div>		

Count	Video	CD	Code	Val1	Val2	%	Jnt	Fr	To	Im	Ref	Remarks
0.0			ST Start of Survey									
0.0			AMH Manhole									2559
0.0			MWL Miscellaneous Water Level			5.000						
8.0			CL Crack Longitudinal				J	04				
8.0			CL Crack Longitudinal				J	07				
10.9		S01	FL Fracture Longitudinal					04				DEFECT WANDERS
12.7		S02	DR Deformed Rigid			25.000						
12.7		S03	FL Fracture Longitudinal					09				
16.9			B Broken					03	04			
18.2		F01	FL Fracture Longitudinal					04				DEFECT WANDERS
18.2		F02	DR Deformed Rigid			25.000						
18.2		F03	FL Fracture Longitudinal					09				
18.2			MSA Miscellaneous Survey Abandoned									BROKEN

18.2 Ft Total Length Surveyed

Scores	Structural:	Pipe Rating 19	Pipe Ratings Index 3.2	Quick Rating 5141
	O&M:	Pipe Rating 0	Pipe Ratings Index 0	Quick Rating 0000
	Overall	Pipe Rating 19	Pipe Ratings Index 3.2	Quick Rating 5141

Pipe Graphic Report of PLR 4267				for Hillsdale				
Setup	462/4	Surveyed By	MJT		Certificate #	U-1220-70400698		Owner
Reviewed By		Reviewer #			Work Order			
Customer					P/O #			
Media Label		Project SANITARY						
Date	2021/04/26		Time	16:23		Weather	Dry - no Precipitation	
Pre-Cleaning		N		Date Cleaned				
Flow control		Survey Purpose				Direction Downstream		
Street	W ST JOE STREET				City	HILLSDALE		Drainage area
Location Code						Pipe Use	Sanitary Sewage Pipe	
Location details						Height	8	Width ins
Shape	Circular		Material	Vitrified Clay Pipe			Lining	
Coating			Pipe Joint length	Ft	Total length	298.8	Ft	<div>StructuralO & M</div>
Length Surveyed	70.20	Ft	Year Constructed	Year Renewed				
Additional info								
Up	2560		Rim to invert		Grade to invert		Rim to grade	Ft
Down	2559		Rim to invert		Grade to invert		Rim to grade	Ft



Tabular Report of PSR 4267

for Hillsdale

Setup 462	Surveyed By MJT	Certificate # U-1220-70400698	Owner
Reviewed By	Reviewer #	Work Order	
Customer		P/O #	
Media Label	Project SANITARY		
Date 2021/04/26	Time 16:23	Weather Dry - no Precipitation	Pre-Cleaning N
Flow control	Survey Purpose		Date Cleaned
Inspection Status Complete Inspection	Consequence Of Failure	Pressure	Direction Down
Inspection Technology Used	<input type="checkbox"/> CCTV <input type="checkbox"/> Laser <input type="checkbox"/> Sonar <input type="checkbox"/> Sidewall <input type="checkbox"/> Zoom <input type="checkbox"/> Other		
Street W ST JOE STREET	City HILLSDALE	Drainage area	
Location Code		Pipe Use Sanitary Sewage Pipe	
Location details		Height 8	Width ins
Shape Circular	Material Vitrified Clay Pipe	Lining	
Coating	Pipe Joint length	Ft	Total length 298.8 Ft
Length Surveyed 70.2 Ft	Year Constructed		Year Renewed
Up 2560	Rim to invert	Grade to invert	Rim to grade Ft
Northing	Easting	Elevation	
Down 2559	Rim to invert	Grade to invert	Rim to grade Ft
Northing	Easting	Elevation	
Coordinate System		Vertical Datum	
GPS Accuracy		Structural	O & M
Additional info		Miscellaneous	Constructional

Count Video	CD Code	Val1	Val2	%	Jnt	Fr	To	ImRef	Remarks
0.0	ST								Start of Survey
0.0	AMH								Manhole
0.0	MWL			5.000					Miscellaneous Water Level
15.4	MMC								Miscellaneous Material Change
17.3	MMC								Miscellaneous Material Change
59.4	MWLS			50.000					Miscellaneous Water Level Sag
70.2	MSA								Miscellaneous Survey Abandoned

70.2 Ft Total Length Surveyed

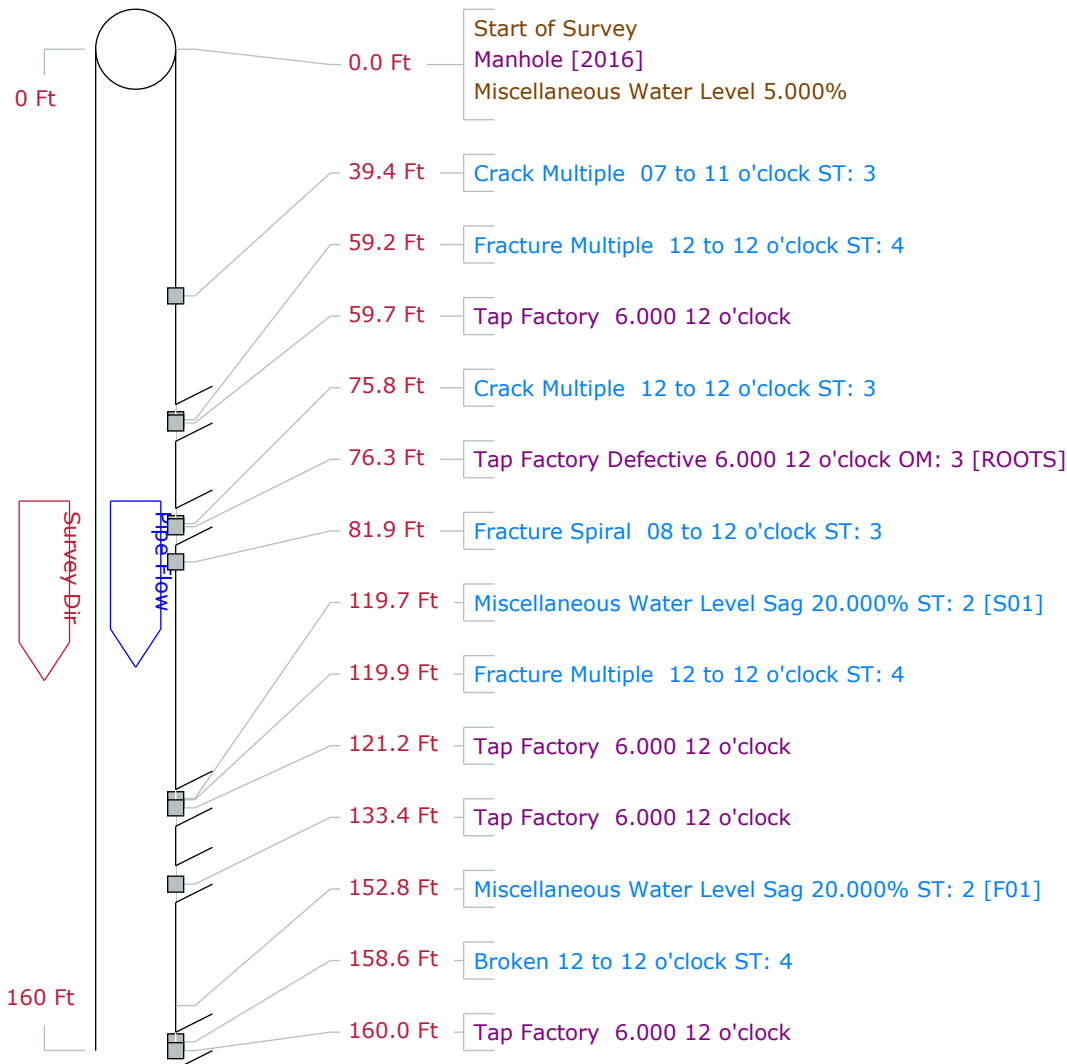
Scores	Structural:	Pipe Rating 3	Pipe Ratings Index 3	Quick Rating 3100
	O&M:	Pipe Rating 0	Pipe Ratings Index 0	Quick Rating 0000
	Overall	Pipe Rating 3	Pipe Ratings Index 3.0	Quick Rating 3100

Willow St. - Full Replacement - MH2016 to 2018

Pipe Graphic Report of PLR 4306

for Hillsdale

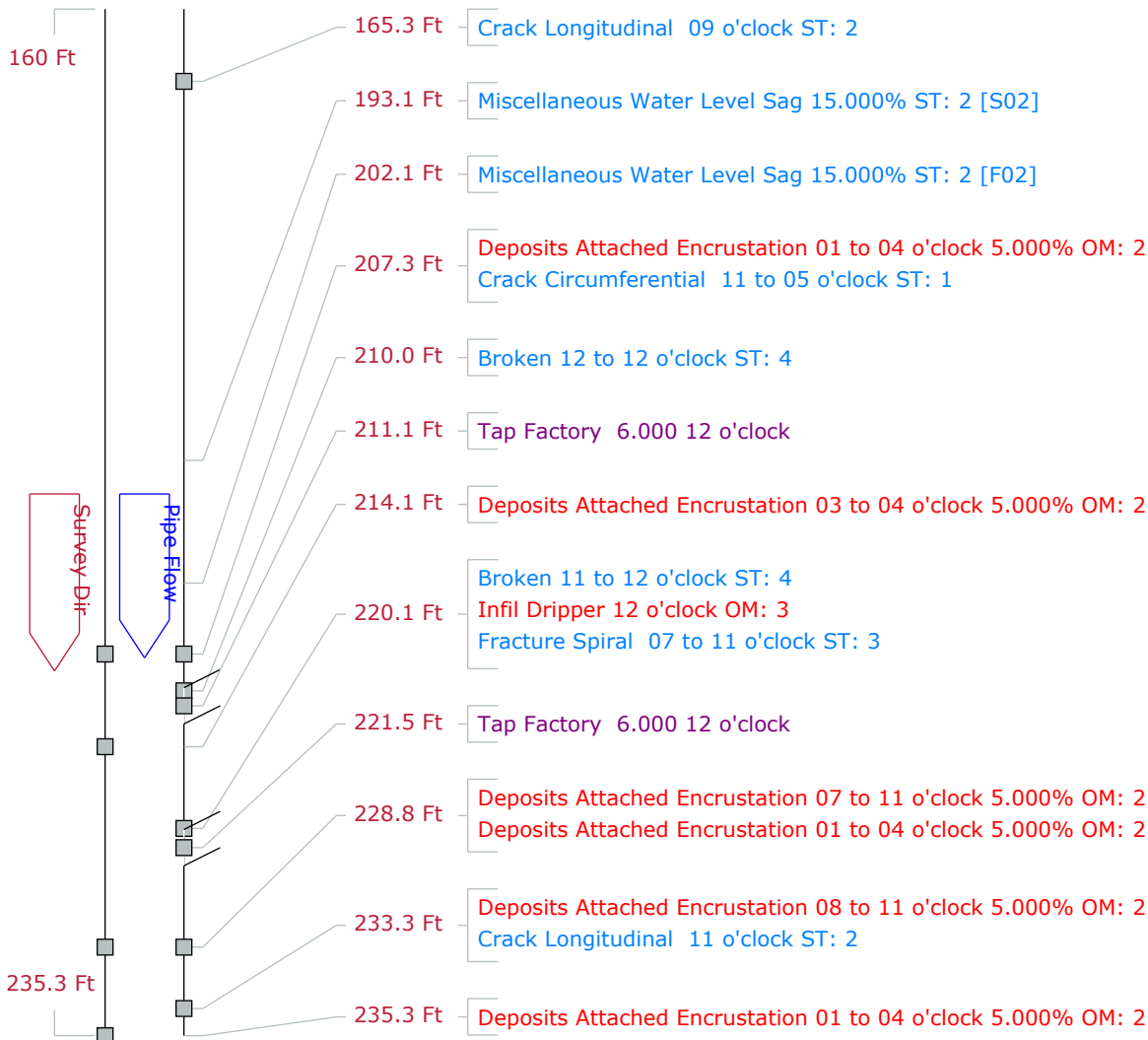
Setup	968/9	Surveyed By	DLT	Certificate #	U-0717-07008329	Owner	
Reviewed By		Reviewer #		Work Order			
Customer				P/O #			
Media Label		Project	SANITARY				
Date	2021/08/20	Time	11:59	Weather	Dry - no Precipitation	Pre-Cleaning	H
Flow control		Survey Purpose				Date Cleaned	
Street	WILLOW	City	HILLSDALE	Drainage area			
Location Code		Pipe Use	Sanitary Sewage Pipe				
Location details		Height	8	Width	ins		
Shape	Circular	Material	Vitrified Clay Pipe	Lining			
Coating		Pipe Joint length	Ft	Total length	352.3	Ft	<div style="display: flex; justify-content: space-between;"> Structural O & M </div>
Length Surveyed	259.80	Year Constructed		Year Renewed			<div style="display: flex; justify-content: space-between;"> Miscellaneous Constructional </div>
Additional info							
Up	2016	Rim to invert		Grade to invert		Rim to grade	Ft
Down	2018	Rim to invert		Grade to invert		Rim to grade	Ft



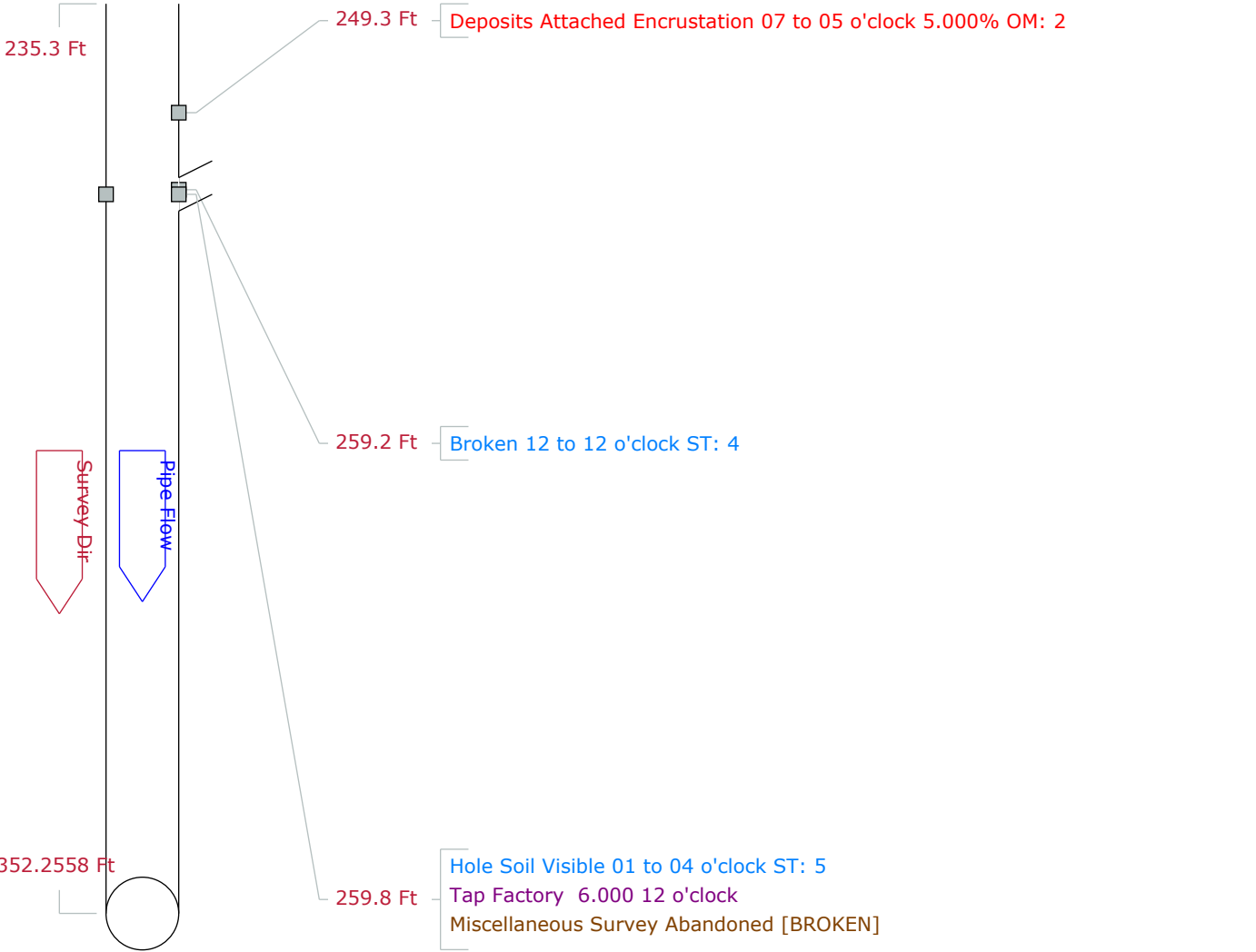
Pipe Graphic Report of PLR 4306

for Hillsdale

Setup	968/9	Surveyed By	DLT	Certificate #	U-0717-07008329	Owner	
Reviewed By		Reviewer #		Work Order			
Customer				P/O #			
Media Label		Project	SANITARY				
Date	2021/08/20	Time	11:59	Weather	Dry - no Precipitation	Pre-Cleaning	H
Flow control		Survey Purpose				Direction	Downstream
Street	WILLOW	City	HILLSDALE	Drainage area			
Location Code		Pipe Use	Sanitary Sewage Pipe				
Location details		Height	8	Width	ins		
Shape	Circular	Material	Vitrified Clay Pipe	Lining			
Coating		Pipe Joint length	Ft	Total length	352.3	Ft	Structural O & M
Length Surveyed	259.80	Year Constructed		Year Renewed			Miscellaneous Constructional
Additional info							
Up	2016	Rim to invert		Grade to invert		Rim to grade	Ft
Down	2018	Rim to invert		Grade to invert		Rim to grade	Ft



Setup	968/9	Surveyed By	DLT	Certificate #	U-0717-07008329	Owner	
Reviewed By		Reviewer #		Work Order			
Customer				P/O #			
Media Label		Project	SANITARY				
Date	2021/08/20	Time	11:59	Weather	Dry - no Precipitation	Pre-Cleaning	H
Flow control		Survey Purpose				Date Cleaned	
Street	WILLOW	City	HILLSDALE	Drainage area			
Location Code		Pipe Use	Sanitary Sewage Pipe				
Location details		Height	8	Width	ins		
Shape	Circular	Material	Vitrified Clay Pipe	Lining			
Coating		Pipe Joint length	Ft	Total length	352.3	Ft	Structural O & M
Length Surveyed	259.80	Year Constructed		Year Renewed			Miscellaneous Constructional
Additional info							
Up	2016	Rim to invert		Grade to invert		Rim to grade	Ft
Down	2018	Rim to invert		Grade to invert		Rim to grade	Ft



Tabular Report of PSR 4306
for Hillsdale

Setup 968	Surveyed By DLT	Certificate # U-0717-07008329	Owner
Reviewed By	Reviewer #	Work Order	
Customer		P/O #	
Media Label	Project SANITARY		
Date 2021/08/20	Time 11:59	Weather Dry - no Precipitation	Pre-Cleaning H
Flow control	Survey Purpose		Date Cleaned
Inspection Status Complete Inspection	Consequence Of Failure	Pressure	Direction Down
Inspection Technology Used	<input type="checkbox"/> CCTV <input type="checkbox"/> Laser <input type="checkbox"/> Sonar <input type="checkbox"/> Sidewall <input type="checkbox"/> Zoom <input type="checkbox"/> Other		
Street WILLOW	City HILLSDALE	Drainage area	
Location Code		Pipe Use Sanitary Sewage Pipe	
Location details		Height 8	Width ins
Shape Circular	Material Vitrified Clay Pipe	Lining	
Coating	Pipe Joint length	Ft	Total length 352.3 Ft
Length Surveyed 259.8 Ft	Year Constructed		Year Renewed
Up 2016	Rim to invert	Grade to invert	Rim to grade Ft
Northing	Easting	Elevation	
Down 2018	Rim to invert	Grade to invert	Rim to grade Ft
Northing	Easting	Elevation	
Coordinate System		Vertical Datum	
GPS Accuracy		Structural	O & M
Additional info		Miscellaneous	Constructional

Count	Video	CD Code		Val1	Val2	%	Jnt	Fr	To	ImRef	Remarks
0.0			ST Start of Survey								
0.0			AMH Manhole								2016
0.0			MWL Miscellaneous Water Level			5.000					
39.4			CM Crack Multiple				J	07	11		
59.2			FM Fracture Multiple				J	12	12		
59.7			TF Tap Factory	6.000				12			
75.8			CM Crack Multiple				J	12	12		
76.3			TFD Tap Factory Defective	6.000				12			ROOTS
81.9			FS Fracture Spiral				J	08	12		
119.7		S01	MWLS Miscellaneous Water Level Sag			20.000					
119.9			FM Fracture Multiple				J	12	12		
121.2			TF Tap Factory	6.000				12			
133.4			TF Tap Factory	6.000				12			
152.8		F01	MWLS Miscellaneous Water Level Sag			20.000					
158.6			B Broken				J	12	12		
160.0			TF Tap Factory	6.000				12			
165.3			CL Crack Longitudinal				J	09			
193.1		S02	MWLS Miscellaneous Water Level Sag			15.000					
202.1		F02	MWLS Miscellaneous Water Level Sag			15.000					
207.3			DAE Deposits Attached Encrustation			5.000		01	04		
207.3			CC Crack Circumferential				J	11	05		
210.0			B Broken				J	12	12		
211.1			TF Tap Factory	6.000				12			

Tabular Report of PSR 4306

for Hillsdale

Setup	968	Date	2021/08/20	Time	11:59	Up	2016	Down	2018		
Count	Video	CD	Code	Val1	Val2	%	Jnt	Fr	To	ImRef	Remarks
214.1			DAE Deposits Attached Encrustation			5.000	J	03	04		
220.1			B Broken				J	11	12		
220.1			ID Infil Dripper				J	12			
220.1			FS Fracture Spiral					07	11		
221.5			TF Tap Factory	6.000				12			
228.8			DAE Deposits Attached Encrustation			5.000	J	07	11		
228.8			DAE Deposits Attached Encrustation			5.000	J	01	04		
233.3			DAE Deposits Attached Encrustation			5.000	J	08	11		
233.3			CL Crack Longitudinal				J	11			
235.3			DAE Deposits Attached Encrustation			5.000	J	01	04		
249.3			DAE Deposits Attached Encrustation			5.000	J	07	05		
259.2			B Broken					12	12		
259.8			HSV Hole Soil Visible					01	04		
259.8			TF Tap Factory	6.000				12			
259.8			MSA Miscellaneous Survey Abandoned								BROKEN

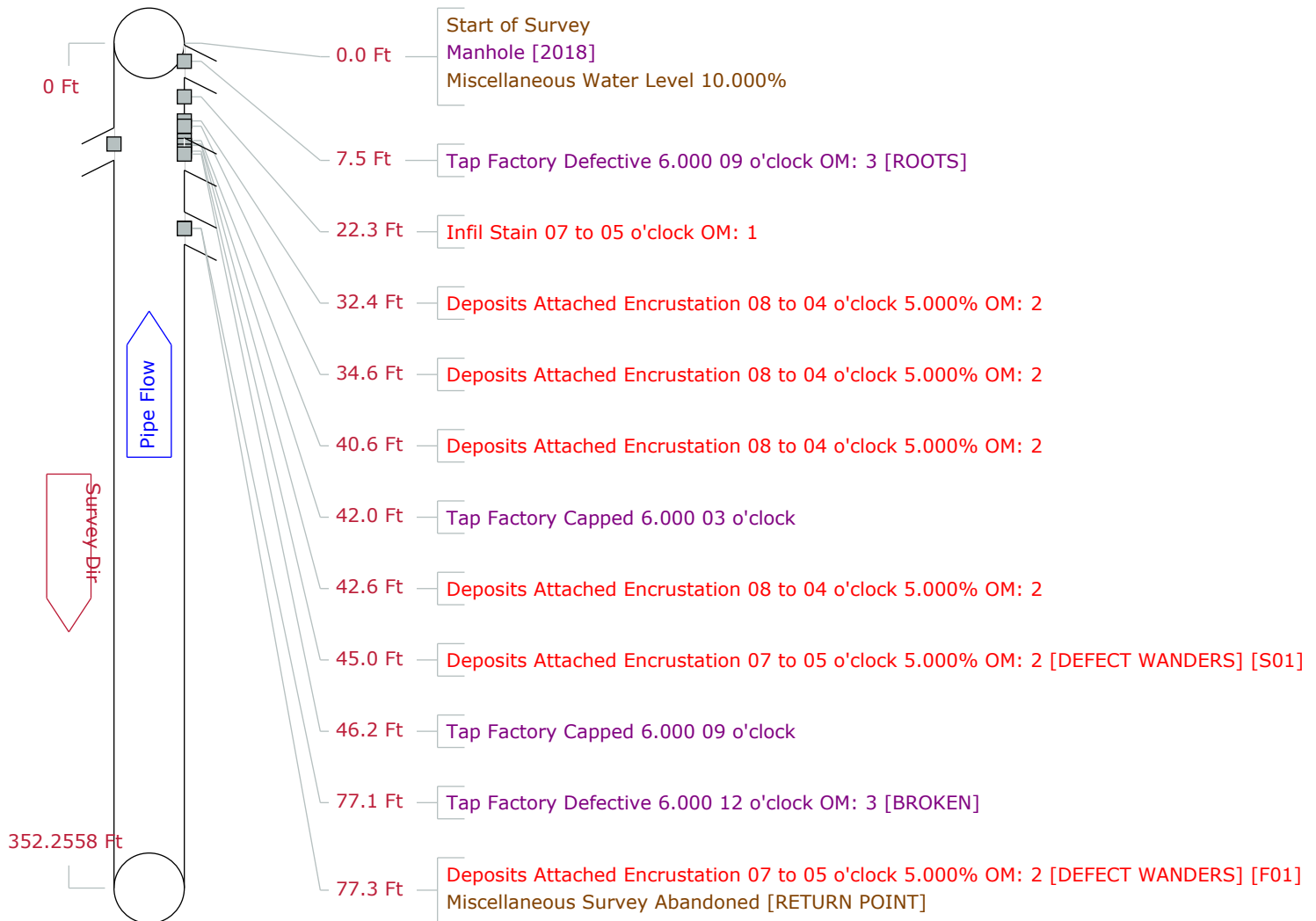
259.8 Ft Total Length Surveyed

Scores	Structural:	Pipe Rating	64	Pipe Ratings Index	2.8	Quick Rating	5146
	O&M:	Pipe Rating	20	Pipe Ratings Index	2.2	Quick Rating	3227
	Overall	Pipe Rating	84	Pipe Ratings Index	2.6	Quick Rating	5146

Pipe Graphic Report of PLR 4306

for Hillsdale

Setup	969/9	Surveyed By	DLT	Certificate #	U-0717-07008329	Owner	
Reviewed By		Reviewer #		Work Order			
Customer				P/O #			
Media Label		Project	SANITARY				
Date	2021/08/20	Time	12:34	Weather	Dry - no Precipitation	Pre-Cleaning	H
Flow control		Survey Purpose				Date Cleaned	
Street	WILLOW	City	HILLSDALE	Drainage area			
Location Code		Pipe Use	Sanitary Sewage Pipe				
Location details		Height	8	Width	ins		
Shape	Circular	Material	Vitrified Clay Pipe	Lining			
Coating		Pipe Joint length	Ft	Total length	352.3	Ft	Structural O & M
Length Surveyed	77.30	Year Constructed		Year Renewed			Miscellaneous Constructional
Additional info	Reverse set up on sheet:35						
Up	2016	Rim to invert		Grade to invert		Rim to grade	Ft
Down	2018	Rim to invert		Grade to invert		Rim to grade	Ft



Tabular Report of PSR 4306
for Hillsdale

Setup 969	Surveyed By DLT	Certificate # U-0717-07008329	Owner
Reviewed By	Reviewer #	Work Order	
Customer		P/O #	
Media Label	Project SANITARY		
Date 2021/08/20	Time 12:34	Weather Dry - no Precipitation	Pre-Cleaning H
Flow control	Survey Purpose		Date Cleaned
Inspection Status Complete Inspection	Consequence Of Failure	Pressure	
Inspection Technology Used	<input type="checkbox"/> CCTV <input type="checkbox"/> Laser <input type="checkbox"/> Sonar <input type="checkbox"/> Sidewall <input type="checkbox"/> Zoom <input type="checkbox"/> Other		
Street WILLOW	City HILLSDALE	Drainage area	
Location Code		Pipe Use Sanitary Sewage Pipe	
Location details		Height 8	Width ins
Shape Circular	Material Vitrified Clay Pipe	Lining	
Coating	Pipe Joint length	Ft	Total length 352.3 Ft
Length Surveyed 77.3 Ft	Year Constructed		Year Renewed
Up 2016	Rim to invert	Grade to invert	Rim to grade Ft
Northing	Easting		Elevation
Down 2018	Rim to invert	Grade to invert	Rim to grade Ft
Northing	Easting		Elevation
Coordinate System		Vertical Datum	
GPS Accuracy			Structural O & M Miscellaneous Constructional
Additional info	Reverse set up on sheet:35		

Count Video	CD Code	Val1	Val2	%	Jnt	Fr	To	ImRef	Remarks
0.0	ST								Start of Survey
0.0	AMH								Manhole
0.0	MWL			10.000					Miscellaneous Water Level
7.5	TFD	6.000				09			Tap Factory Defective
22.3	IS				J	07	05		Infil Stain
32.4	DAE			5.000	J	08	04		Deposits Attached Encrustation
34.6	DAE			5.000	J	08	04		Deposits Attached Encrustation
40.6	DAE			5.000	J	08	04		Deposits Attached Encrustation
42.0	TFC	6.000				03			Tap Factory Capped
42.6	DAE			5.000	J	08	04		Deposits Attached Encrustation
45.0	S01 DAE			5.000	J	07	05		Deposits Attached Encrustation
46.2	TFC	6.000				09			Tap Factory Capped
77.1	TFD	6.000				12			Tap Factory Defective
77.3	F01 DAE			5.000	J	07	05		Deposits Attached Encrustation
77.3	MSA								Miscellaneous Survey Abandoned

77.3 Ft Total Length Surveyed

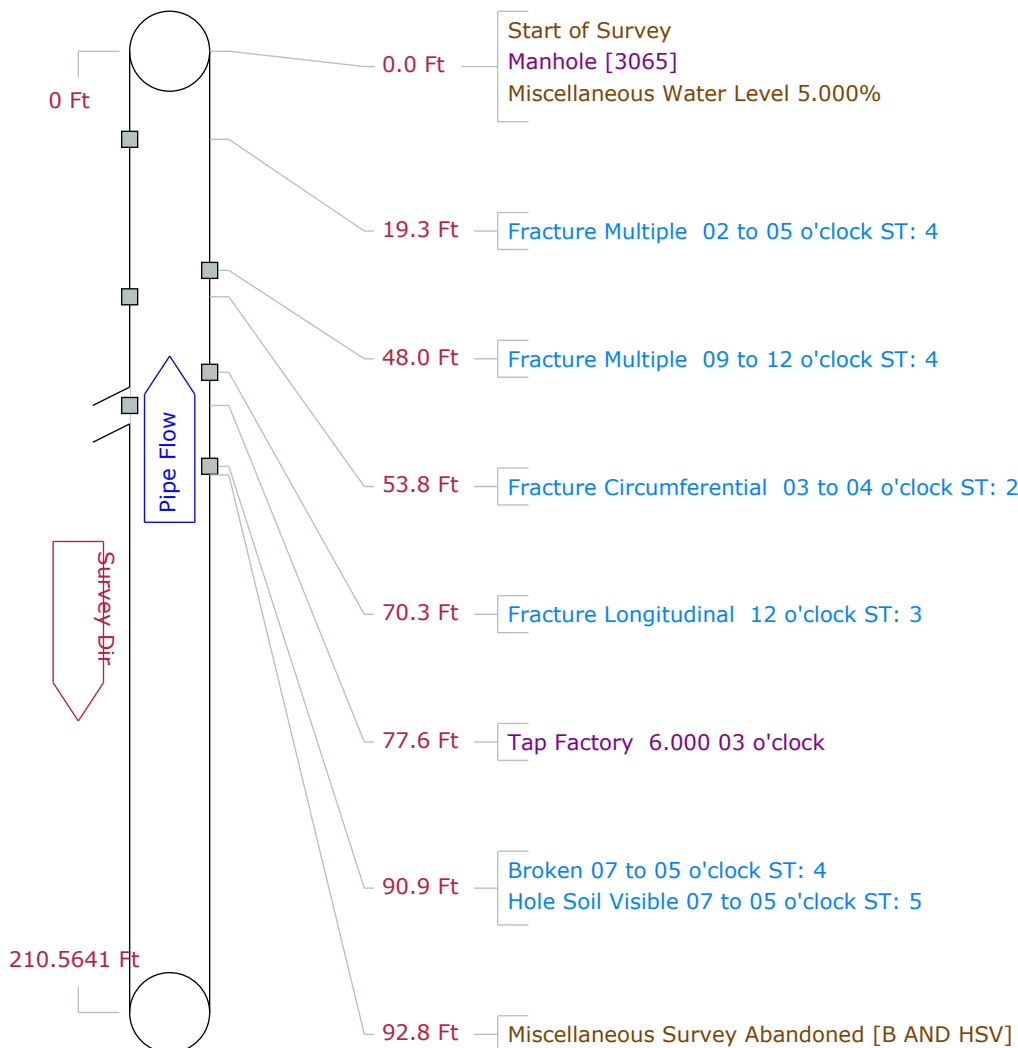
Scores	Structural:	Pipe Rating 0	Pipe Ratings Index 0	Quick Rating 0000
	O&M:	Pipe Rating 27	Pipe Ratings Index 2.1	Quick Rating 322A
	Overall	Pipe Rating 27	Pipe Ratings Index 2.1	Quick Rating 322A

E. Bacon St. - Spot Replace and Lining - MH3069 to 3065

Pipe Graphic Report of PLR 4301

for Hillsdale

Setup	212/2	Surveyed By	MJT	Certificate #	U122070400698	Owner	
Reviewed By		Reviewer #		Work Order			
Customer				P/O #			
Media Label		Project	SANITARY				
Date	2021/04/30	Time	10:15	Weather	Dry - no Precipitation	Pre-Cleaning	N
Flow control		Survey Purpose				Date Cleaned	
Street	E BACON RD	City	HILLSDALE	Drainage area			
Location Code		Pipe Use	Sanitary Sewage Pipe				
Location details		Height	8	Width	ins		
Shape	Circular	Material	Vitrified Clay Pipe	Lining			
Coating		Pipe Joint length	Ft	Total length	210.6	Ft	Structural O & M
Length Surveyed	92.80	Year Constructed		Year Renewed			Miscellaneous Constructional
Additional info							
Up	3069	Rim to invert		Grade to invert		Rim to grade	Ft
Down	3065	Rim to invert		Grade to invert		Rim to grade	Ft



Tabular Report of PSR 4301

for Hillsdale

Setup 212	Surveyed By MJT	Certificate # U122070400698	Owner
Reviewed By	Reviewer #	Work Order	
Customer		P/O #	
Media Label	Project SANITARY		
Date 2021/04/30	Time 10:15	Weather Dry - no Precipitation	Pre-Cleaning N
Flow control	Survey Purpose		Date Cleaned
Inspection Status Complete Inspection	Consequence Of Failure	Pressure	Direction Up
Inspection Technology Used	<input type="checkbox"/> CCTV <input type="checkbox"/> Laser <input type="checkbox"/> Sonar <input type="checkbox"/> Sidewall <input type="checkbox"/> Zoom <input type="checkbox"/> Other		
Street E BACON RD	City HILLSDALE	Drainage area	
Location Code		Pipe Use Sanitary Sewage Pipe	
Location details		Height 8	Width ins
Shape Circular	Material Vitrified Clay Pipe	Lining	
Coating	Pipe Joint length	Ft	Total length 210.6 Ft
Length Surveyed 92.8 Ft	Year Constructed		Year Renewed
Up 3069	Rim to invert	Grade to invert	Rim to grade Ft
Northing	Easting	Elevation	
Down 3065	Rim to invert	Grade to invert	Rim to grade Ft
Northing	Easting	Elevation	
Coordinate System		Vertical Datum	
GPS Accuracy		Structural	O & M
Additional info		Miscellaneous	Constructional

Count Video	CD Code	Val1	Val2	%	Jnt	Fr	To	ImRef	Remarks
0.0	ST	Start of Survey							
0.0	AMH	Manhole							3065
0.0	MWL	Miscellaneous Water Level		5.000					
19.3	FM	Fracture Multiple			J	02	05		
48.0	FM	Fracture Multiple			J	09	12		
53.8	FC	Fracture Circumferential			J	03	04		
70.3	FL	Fracture Longitudinal			J	12			
77.6	TF	Tap Factory	6.000			03			
90.9	B	Broken				07	05		
90.9	HSV	Hole Soil Visible				07	05		
92.8	MSA	Miscellaneous Survey Abandoned							B AND HSV

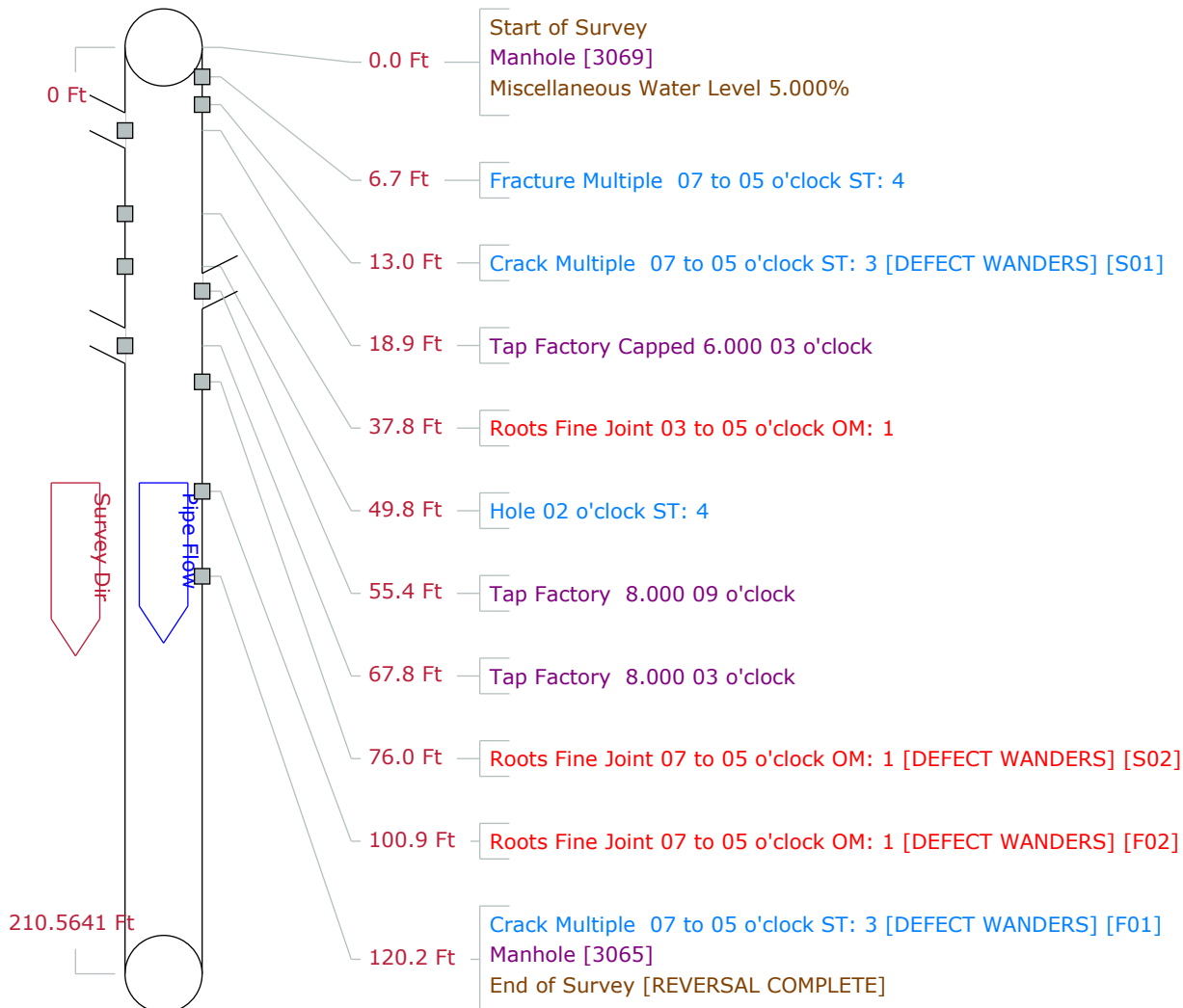
92.8 Ft Total Length Surveyed

Scores	Structural: Pipe Rating 22	Pipe Ratings Index 3.7	Quick Rating 5143
	O&M: Pipe Rating 0	Pipe Ratings Index 0	Quick Rating 0000
	Overall Pipe Rating 22	Pipe Ratings Index 3.7	Quick Rating 5143

Pipe Graphic Report of PLR 4301

for Hillsdale

Setup	216/2	Surveyed By	MJT	Certificate #	U122070400698	Owner	
Reviewed By		Reviewer #		Work Order			
Customer				P/O #			
Media Label		Project	SANITARY				
Date	2021/04/30	Time	10:24	Weather	Dry - no Precipitation	Pre-Cleaning	N
Flow control		Survey Purpose				Date Cleaned	
Street	E BACON RD	City	HILLSDALE	Drainage area			
Location Code		Pipe Use	Sanitary Sewage Pipe				
Location details		Height	8	Width	ins		
Shape	Circular	Material	Vitrified Clay Pipe	Lining			
Coating		Pipe Joint length	Ft	Total length	210.6	Ft	Structural O & M
Length Surveyed	120.20	Year Constructed		Year Renewed			Miscellaneous Constructional
Additional info	Reverse set up on sheet:98						
Up	3069	Rim to invert		Grade to invert		Rim to grade	Ft
Down	3065	Rim to invert		Grade to invert		Rim to grade	Ft



Tabular Report of PSR 4301

for Hillsdale

Setup 216	Surveyed By MJT	Certificate # U122070400698	Owner
Reviewed By	Reviewer #	Work Order	
Customer		P/O #	
Media Label	Project SANITARY		
Date 2021/04/30	Time 10:24	Weather Dry - no Precipitation	Pre-Cleaning N
Flow control	Survey Purpose		Date Cleaned
Inspection Status Complete Inspection	Consequence Of Failure	Pressure	Direction Down
Inspection Technology Used	<input type="checkbox"/> CCTV <input type="checkbox"/> Laser <input type="checkbox"/> Sonar <input type="checkbox"/> Sidewall <input type="checkbox"/> Zoom <input type="checkbox"/> Other		
Street E BACON RD	City HILLSDALE	Drainage area	
Location Code		Pipe Use Sanitary Sewage Pipe	
Location details		Height 8	Width ins
Shape Circular	Material Vitrified Clay Pipe	Lining	
Coating	Pipe Joint length	Ft	Total length 210.6 Ft
Length Surveyed 120.2 Ft	Year Constructed		Year Renewed
Up 3069	Rim to invert	Grade to invert	Rim to grade Ft
Northing	Easting	Elevation	
Down 3065	Rim to invert	Grade to invert	Rim to grade Ft
Northing	Easting	Elevation	
Coordinate System		Vertical Datum	
GPS Accuracy		Structural	O & M
Additional info Reverse set up on sheet:98		Miscellaneous	Constructional

Count Video	CD Code	Val1	Val2	%	Jnt	Fr	To	ImRef	Remarks
0.0	ST								Start of Survey
0.0	AMH								Manhole
0.0	MWL			5.000					Miscellaneous Water Level
6.7	FM				J	07	05		Fracture Multiple
13.0	S01 CM				J	07	05		Crack Multiple
18.9	TFC	6.000				03			Tap Factory Capped
37.8	RFJ				J	03	05		Roots Fine Joint
49.8	H					02			Hole
55.4	TF	8.000				09			Tap Factory
67.8	TF	8.000				03			Tap Factory
76.0	S02 RFJ				J	07	05		Roots Fine Joint
100.9	F02 RFJ				J	07	05		Roots Fine Joint
120.2	F01 CM				J	07	05		Crack Multiple
120.2	AMH								Manhole
120.2	FH								End of Survey

120.2 Ft Total Length Surveyed

Scores	Structural:	Pipe Rating 71	Pipe Ratings Index 3.1	Quick Rating 423C
	O&M:	Pipe Rating 6	Pipe Ratings Index 1	Quick Rating 1600
	Overall	Pipe Rating 77	Pipe Ratings Index 2.7	Quick Rating 423C

Counter:90.9
Code:B (Broken)
Percent:
From:07
To:05
Remarks:

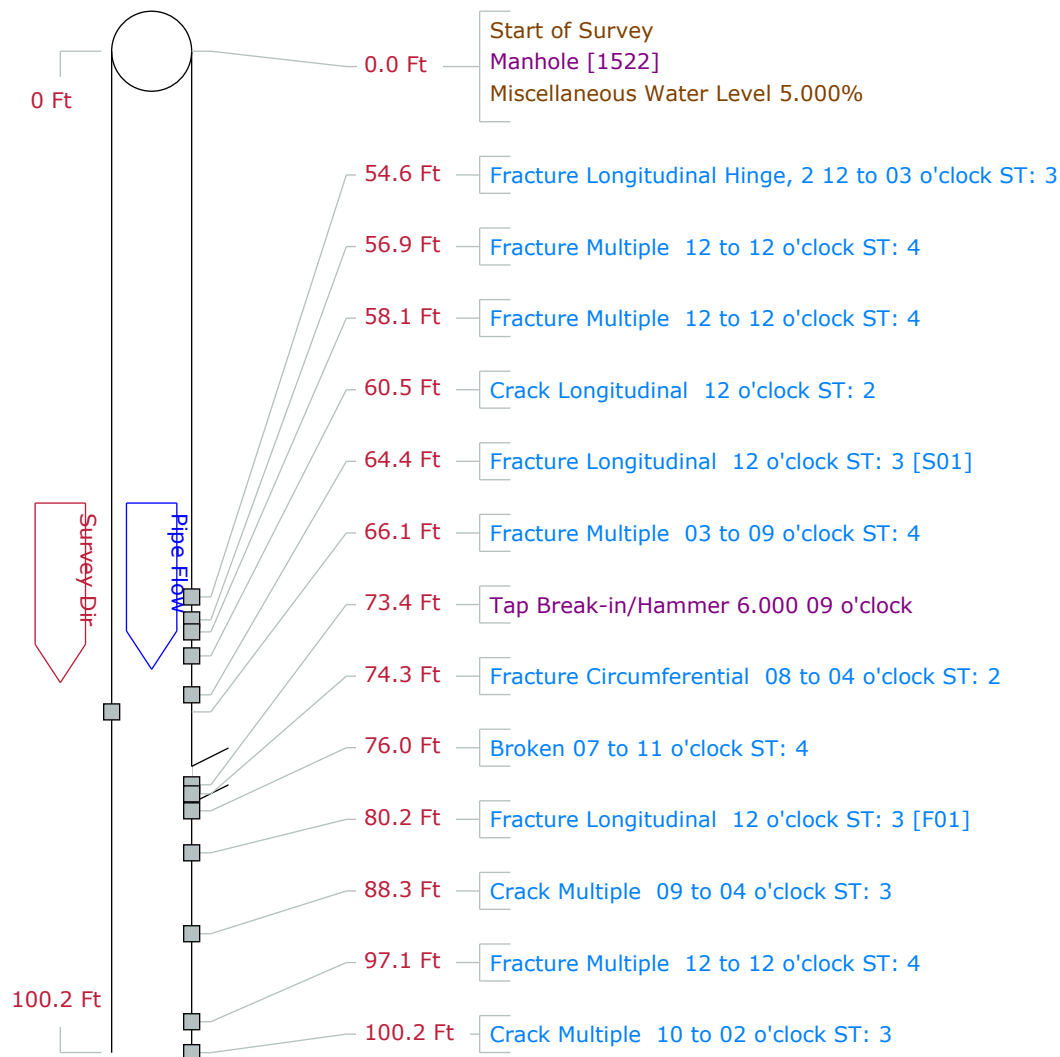
10:22 am 04/30/21 0090.9 ft

S. Broad St. (M-99 - MDOT) - Spot Replace and Lining - MH1521 to 1522

Pipe Graphic Report of PLR 4037

for Hillsdale

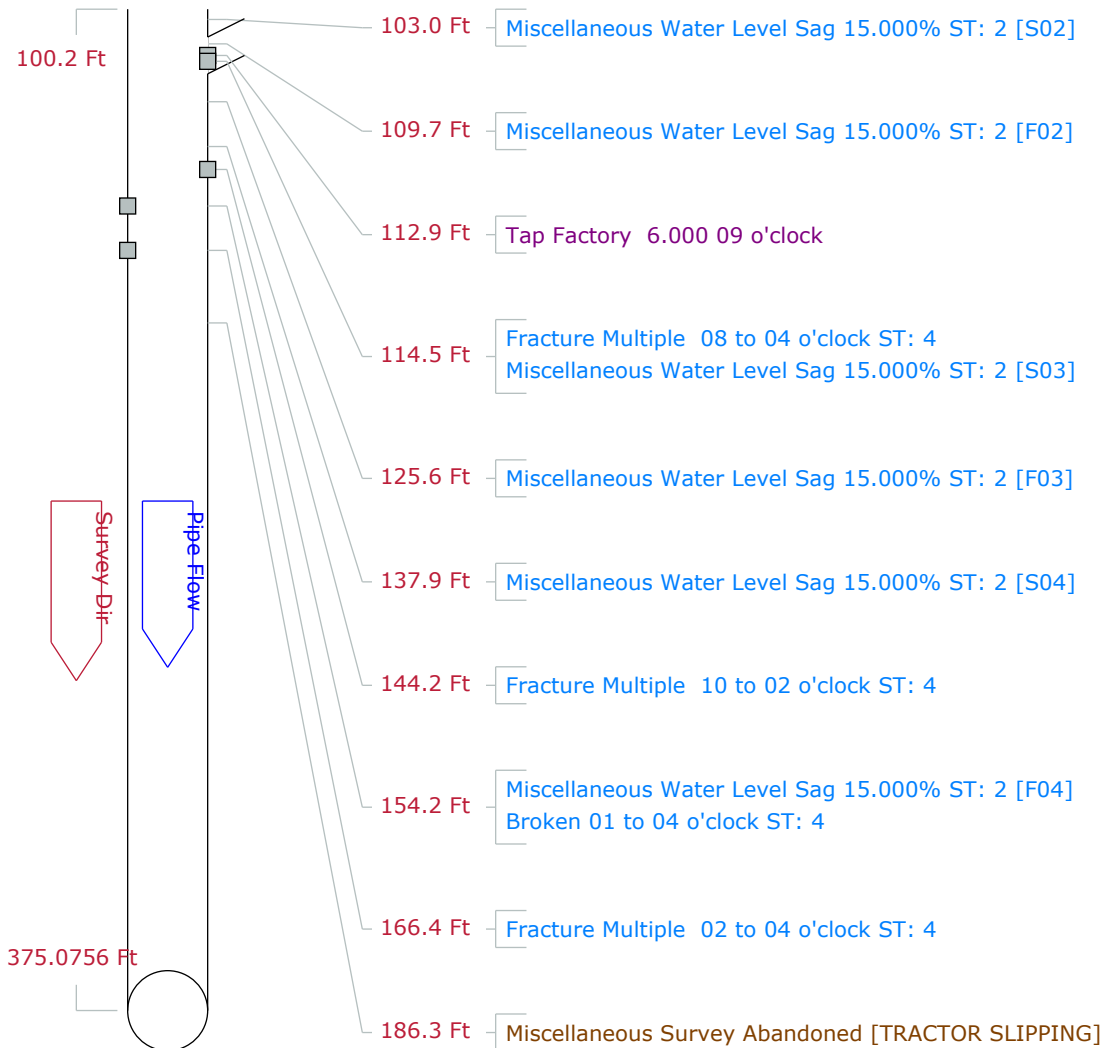
Setup	1040/	Surveyed By	DLT	Certificate #	U-0717-07008329	Owner	
Reviewed By		Reviewer #		Work Order			
Customer				P/O #			
Media Label		Project	SANITARY				
Date	2021/09/08	Time	19:43	Weather	Dry - no Precipitation	Pre-Cleaning	L
Flow control		Survey Purpose				Direction	Downstream
Street	M-99	City	HILLSDALE			Drainage area	
Location Code				Pipe Use	Sanitary Sewage Pipe		
Location details				Height	7	Width	ins
Shape	Circular	Material	Vitrified Clay Pipe	Lining			
Coating		Pipe Joint length		Ft	Total length	375.1	Ft
Length Surveyed	186.30	Year Constructed		Year Renewed			
Additional info							
Up	1522	Rim to invert		Grade to invert		Rim to grade	Ft
Down	1521	Rim to invert		Grade to invert		Rim to grade	Ft



Pipe Graphic Report of PLR 4037

for Hillsdale

Setup	1040/	Surveyed By	DLT	Certificate #	U-0717-07008329	Owner	
Reviewed By		Reviewer #		Work Order			
Customer				P/O #			
Media Label		Project	SANITARY				
Date	2021/09/08	Time	19:43	Weather	Dry - no Precipitation	Pre-Cleaning	L
Flow control		Survey Purpose				Date Cleaned	
Street	M-99	City	HILLSDALE	Drainage area			
Location Code		Pipe Use	Sanitary Sewage Pipe				
Location details		Height	7	Width	ins		
Shape	Circular	Material	Vitrified Clay Pipe	Lining			
Coating		Pipe Joint length	Ft	Total length	375.1	Ft	Structural O & M
Length Surveyed	186.30	Year Constructed		Year Renewed			Miscellaneous Constructional
Additional info							
Up	1522	Rim to invert		Grade to invert		Rim to grade	Ft
Down	1521	Rim to invert		Grade to invert		Rim to grade	Ft



Tabular Report of PSR 4037
for Hillsdale

Setup 1040		Surveyed By DLT		Certificate # U-0717-07008329		Owner	
Reviewed By		Reviewer #		Work Order			
Customer				P/O #			
Media Label		Project SANITARY					
Date 2021/09/08		Time 19:43		Weather Dry - no Precipitation		Pre-Cleaning L	
Flow control		Survey Purpose				Date Cleaned	
Inspection Status Complete Inspection		Consequence Of Failure		Pressure			
Inspection Technology Used		<input type="checkbox"/> CCTV <input type="checkbox"/> Laser <input type="checkbox"/> Sonar <input type="checkbox"/> Sidewall <input type="checkbox"/> Zoom <input type="checkbox"/> Other					
Street M-99		City HILLSDALE		Drainage area			
Location Code				Pipe Use Sanitary Sewage Pipe			
Location details				Height 7		Width ins	
Shape Circular		Material Vitrified Clay Pipe		Lining			
Coating		Pipe Joint length Ft		Total length 375.1		Ft	
Length Surveyed 186.3 Ft		Year Constructed		Year Renewed			
Up 1522		Rim to invert		Grade to invert		Rim to grade Ft	
Northing		Easting		Elevation			
Down 1521		Rim to invert		Grade to invert		Rim to grade Ft	
Northing		Easting		Elevation			
Coordinate System				Vertical Datum			
GPS Accuracy				<div style="display: flex; justify-content: space-between;"> Structural O & M </div>			
Additional info				<div style="display: flex; justify-content: space-between;"> Miscellaneous Constructional </div>			

Count	Video	CD	Code	Val1	Val2	%	Jnt	Fr	To	Im	Ref	Remarks
0.0			ST Start of Survey									
0.0			AMH Manhole									1522
0.0			MWL Miscellaneous Water Level			5.000						
54.6			FH2 Fracture Longitudinal Hinge, 2					12	03			
56.9			FM Fracture Multiple				J	12	12			
58.1			FM Fracture Multiple				J	12	12			
60.5			CL Crack Longitudinal				J	12				
64.4		S01	FL Fracture Longitudinal				J	12				
66.1			FM Fracture Multiple				J	03	09			
73.4			TB Tap Break-in/Hammer	6.000				09				
74.3			FC Fracture Circumferential					08	04			
76.0			B Broken				J	07	11			
80.2		F01	FL Fracture Longitudinal				J	12				
88.3			CM Crack Multiple				J	09	04			
97.1			FM Fracture Multiple					12	12			
100.2			CM Crack Multiple				J	10	02			
103.0		S02	MWLS Miscellaneous Water Level Sag			15.000						
109.7		F02	MWLS Miscellaneous Water Level Sag			15.000						
112.9			TF Tap Factory	6.000				09				
114.5			FM Fracture Multiple				J	08	04			
114.5		S03	MWLS Miscellaneous Water Level Sag			15.000						
125.6		F03	MWLS Miscellaneous Water Level Sag			15.000						
137.9		S04	MWLS Miscellaneous Water Level Sag			15.000						

Tabular Report of PSR 4037

for Hillsdale

Setup	1040	Date	2021/09/08		Time	19:43		Up	1522				Down	1521			
Count	Video	CD	Code			Val1	Val2	%	Jnt	Fr	To	ImRef	Remarks				
144.2			FM	Fracture Multiple						J	10	02					
154.2		F04	MWLS	Miscellaneous Water Level Sag					15.000								
154.2			B	Broken						J	01	04					
166.4			FM	Fracture Multiple						J	02	04					
186.3			MSA	Miscellaneous Survey Abandoned										TRACTOR SLIPPING			

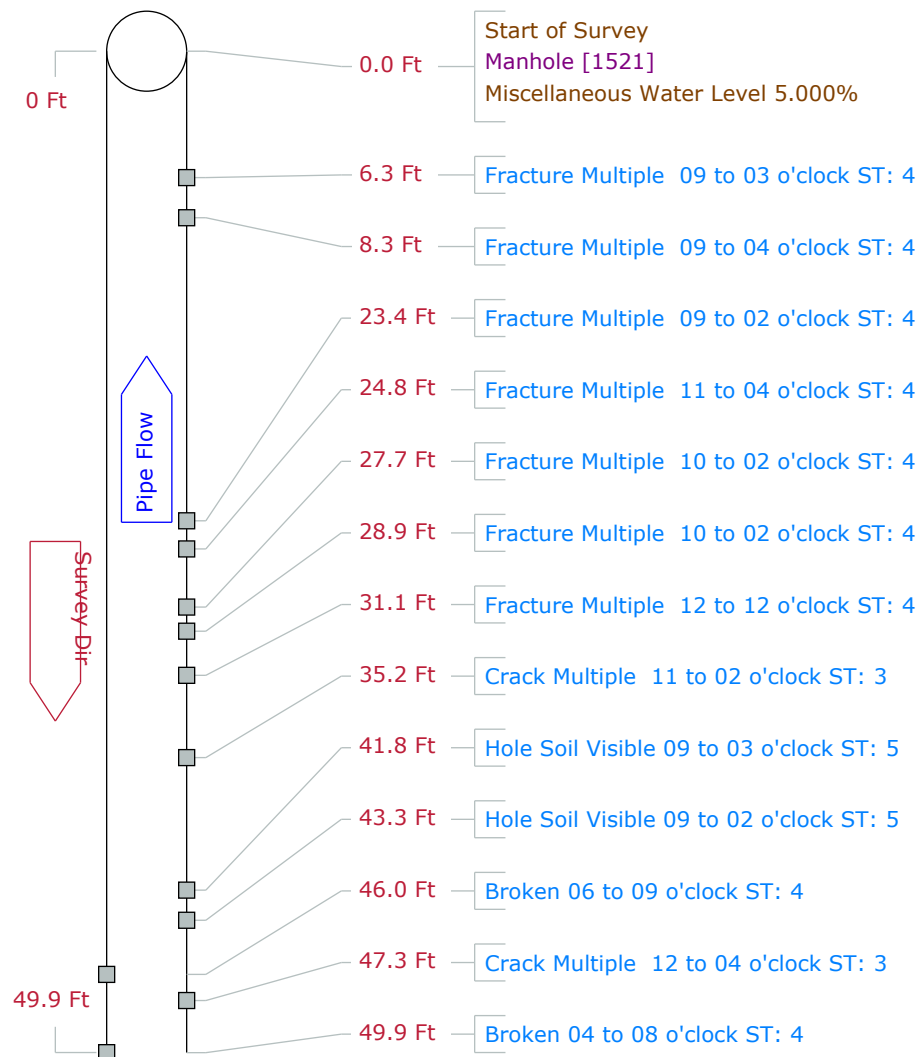
186.3 Ft Total Length Surveyed

Scores	Structural:	Pipe Rating	70	Pipe Ratings Index	3	Quick Rating	4936
	O&M:	Pipe Rating	0	Pipe Ratings Index	0	Quick Rating	0000
	Overall	Pipe Rating	70	Pipe Ratings Index	3.0	Quick Rating	4936

Pipe Graphic Report of PLR 4037

for Hillsdale

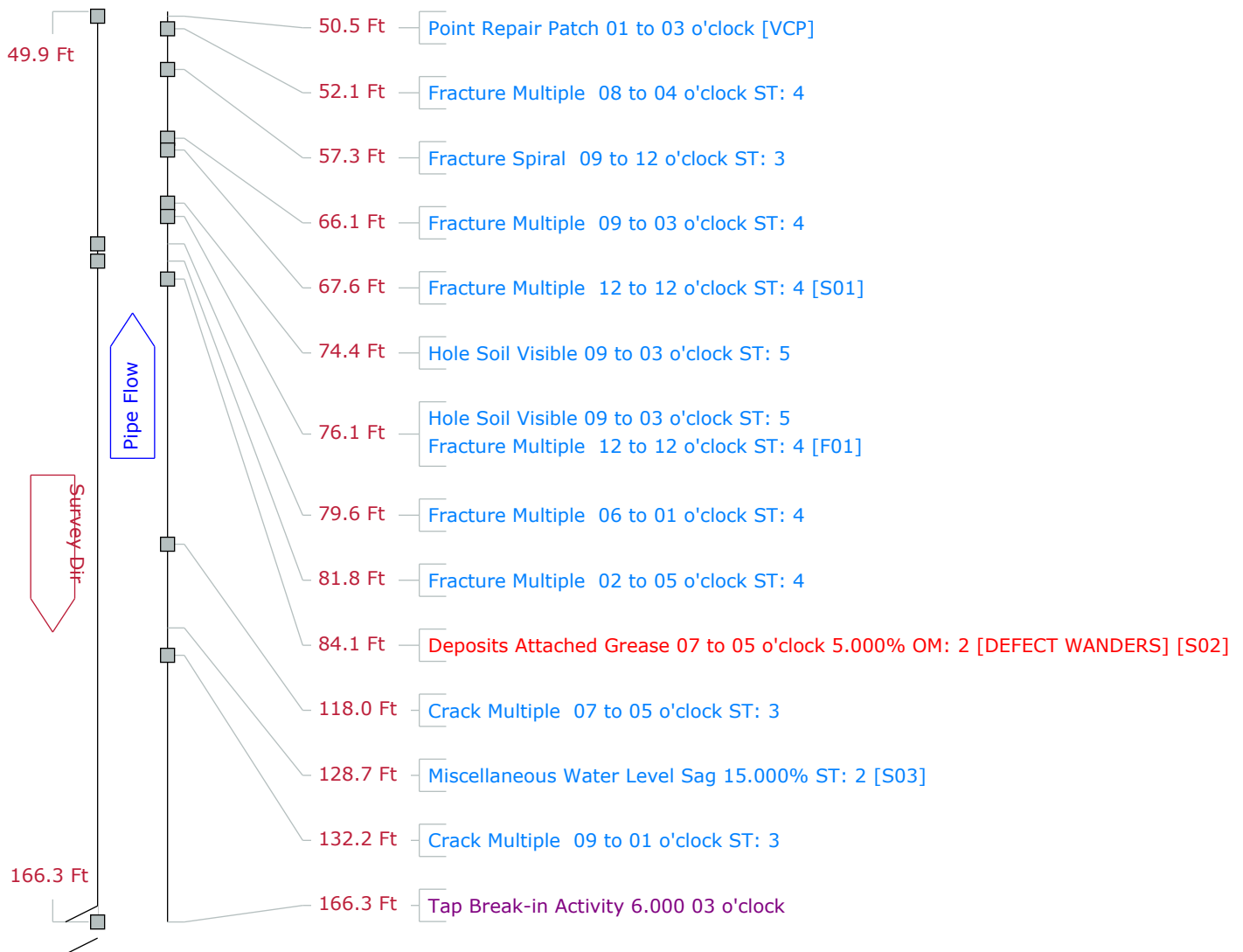
Setup	1041/	Surveyed By	DLT	Certificate #	U-0717-07008329	Owner	
Reviewed By		Reviewer #		Work Order			
Customer				P/O #			
Media Label		Project	SANITARY				
Date	2021/09/08	Time	20:32	Weather	Dry - no Precipitation	Pre-Cleaning	L
Flow control		Survey Purpose				Date Cleaned	
Street	M-99	City	HILLSDALE	Drainage area			
Location Code		Pipe Use	Sanitary Sewage Pipe				
Location details		Height	7	Width	ins		
Shape	Circular	Material	Vitrified Clay Pipe	Lining			
Coating		Pipe Joint length	Ft	Total length	375.1	Ft	Structural O & M
Length Surveyed	175.90	Year Constructed		Year Renewed			Miscellaneous Constructional
Additional info	Reverse set up on sheet:106						
Up	1522	Rim to invert		Grade to invert		Rim to grade	Ft
Down	1521	Rim to invert		Grade to invert		Rim to grade	Ft



Pipe Graphic Report of PLR 4037

for Hillsdale

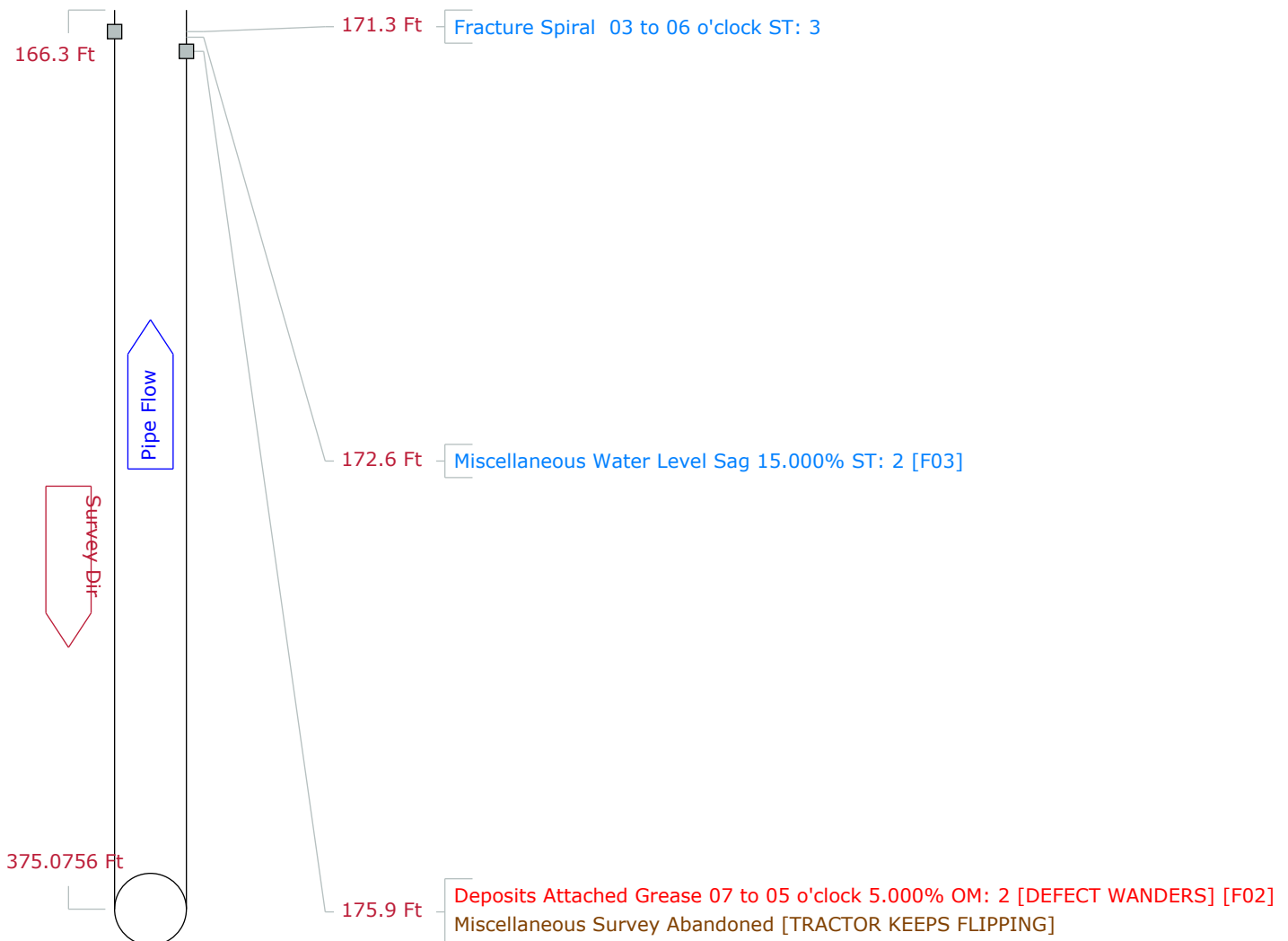
Setup	1041/	Surveyed By	DLT	Certificate #	U-0717-07008329	Owner	
Reviewed By		Reviewer #		Work Order			
Customer				P/O #			
Media Label		Project	SANITARY				
Date	2021/09/08	Time	20:32	Weather	Dry - no Precipitation	Pre-Cleaning	L
Flow control		Survey Purpose				Date Cleaned	
Street	M-99	City	HILLSDALE	Drainage area			
Location Code		Pipe Use	Sanitary Sewage Pipe				
Location details		Height	7	Width	ins		
Shape	Circular	Material	Vitrified Clay Pipe	Lining			
Coating		Pipe Joint length	Ft	Total length	375.1	Ft	Structural O & M
Length Surveyed	175.90	Year Constructed		Year Renewed			Miscellaneous Constructional
Additional info	Reverse set up on sheet:106						
Up	1522	Rim to invert		Grade to invert		Rim to grade	Ft
Down	1521	Rim to invert		Grade to invert		Rim to grade	Ft



Pipe Graphic Report of PLR 4037

for Hillsdale

Setup	1041/	Surveyed By	DLT	Certificate #	U-0717-07008329	Owner	
Reviewed By		Reviewer #		Work Order			
Customer				P/O #			
Media Label		Project	SANITARY				
Date	2021/09/08	Time	20:32	Weather	Dry - no Precipitation	Pre-Cleaning	L
Flow control		Survey Purpose				Date Cleaned	
Street	M-99	City	HILLSDALE	Drainage area			
Location Code		Pipe Use	Sanitary Sewage Pipe				
Location details		Height	7	Width	ins		
Shape	Circular	Material	Vitrified Clay Pipe	Lining			
Coating		Pipe Joint length	Ft	Total length	375.1	Ft	Structural O & M
Length Surveyed	175.90	Year Constructed		Year Renewed			Miscellaneous Constructional
Additional info	Reverse set up on sheet:106						
Up	1522	Rim to invert		Grade to invert		Rim to grade	Ft
Down	1521	Rim to invert		Grade to invert		Rim to grade	Ft



Tabular Report of PSR 4037
for Hillsdale

Setup 1041		Surveyed By DLT		Certificate # U-0717-07008329		Owner	
Reviewed By		Reviewer #		Work Order			
Customer				P/O #			
Media Label		Project SANITARY					
Date 2021/09/08		Time 20:32		Weather Dry - no Precipitation		Pre-Cleaning L	
Flow control		Survey Purpose				Date Cleaned	
Inspection Status Complete Inspection		Consequence Of Failure		Pressure			
Inspection Technology Used		<input type="checkbox"/> CCTV <input type="checkbox"/> Laser <input type="checkbox"/> Sonar <input type="checkbox"/> Sidewall <input type="checkbox"/> Zoom <input type="checkbox"/> Other					
Street M-99		City HILLSDALE		Drainage area			
Location Code				Pipe Use Sanitary Sewage Pipe			
Location details				Height 7		Width ins	
Shape Circular		Material Vitrified Clay Pipe		Lining			
Coating		Pipe Joint length Ft		Total length 375.1		Ft	
Length Surveyed 175.9 Ft		Year Constructed		Year Renewed			
Up 1522		Rim to invert		Grade to invert		Rim to grade Ft	
Northing		Easting		Elevation			
Down 1521		Rim to invert		Grade to invert		Rim to grade Ft	
Northing		Easting		Elevation			
Coordinate System				Vertical Datum			
GPS Accuracy				<div style="display: flex; justify-content: space-between;"> Structural O & M </div>			
Additional info		Reverse set up on sheet:106		<div style="display: flex; justify-content: space-between;"> Miscellaneous Constructional </div>			

Count	Video	CD	Code	Val1	Val2	%	Jnt	Fr	To	Im	Ref	Remarks
0.0			ST Start of Survey									
0.0			AMH Manhole									1521
0.0			MWL Miscellaneous Water Level			5.000						
6.3			FM Fracture Multiple				J	09	03			
8.3			FM Fracture Multiple				J	09	04			
23.4			FM Fracture Multiple				J	09	02			
24.8			FM Fracture Multiple				J	11	04			
27.7			FM Fracture Multiple				J	10	02			
28.9			FM Fracture Multiple				J	10	02			
31.1			FM Fracture Multiple				J	12	12			
35.2			CM Crack Multiple				J	11	02			
41.8			HSV Hole Soil Visible				J	09	03			
43.3			HSV Hole Soil Visible				J	09	02			
46.0			B Broken				J	06	09			
47.3			CM Crack Multiple				J	12	04			
49.9			B Broken				J	04	08			
50.5			RPP Point Repair Patch					01	03			VCP
52.1			FM Fracture Multiple				J	08	04			
57.3			FS Fracture Spiral				J	09	12			
66.1			FM Fracture Multiple				J	09	03			
67.6		S01	FM Fracture Multiple				J	12	12			
74.4			HSV Hole Soil Visible				J	09	03			
76.1			HSV Hole Soil Visible				J	09	03			

Tabular Report of PSR 4037
for Hillsdale

Setup	1041	Date	2021/09/08		Time	20:32		Up	1522		Down	1521	
Count	Video	CD	Code			Val1	Val2	%	Jnt	Fr	To	ImRef	Remarks
76.1		F01	FM	Fracture Multiple						J	12	12	
79.6			FM	Fracture Multiple						J	06	01	
81.8			FM	Fracture Multiple						J	02	05	
84.1		S02	DAGS	Deposits Attached Grease					5.000		07	05	DEFECT WANDERS
118.0			CM	Crack Multiple						J	07	05	
128.7		S03	MWLS	Miscellaneous Water Level Sag					15.000				
132.2			CM	Crack Multiple						J	09	01	
166.3			TBA	Tap Break-in Activity			6.000				03		
171.3			FS	Fracture Spiral						J	03	06	
172.6		F03	MWLS	Miscellaneous Water Level Sag					15.000				
175.9		F02	DAGS	Deposits Attached Grease					5.000		07	05	DEFECT WANDERS
175.9			MSA	Miscellaneous Survey Abandoned									TRACTOR KEEPS FLIPPING

175.9 Ft Total Length Surveyed

Scores	Structural:	Pipe Rating	116	Pipe Ratings Index	3.4	Quick Rating	544B
	O&M:	Pipe Rating	36	Pipe Ratings Index	2	Quick Rating	2B00
	Overall	Pipe Rating	152	Pipe Ratings Index	2.9	Quick Rating	544B

Counter:41.8

Code:HSV

Percent:

From :09


To:03

Remarks:

19: 14

09.08.21

LC1: +0041.80 ft



Counter:74.4

Code:HSV

Percent:

From:09

19:22

09.08.21

LC1: +0074.40 ft



Counter:76.0

Code:B

Percent:

18:28

09.08.21

LC1: +0076.00 ft

E. Bacon St. - Lining - MH2522 to 2523

Tabular Report of PSR 4298

for Hillsdale

Setup 249	Surveyed By MJT	Certificate # U122070400698	Owner
Reviewed By	Reviewer #	Work Order	
Customer		P/O #	
Media Label	Project SANITARY		
Date 2021/04/30	Time 11:30	Weather Dry - no Precipitation	Pre-Cleaning N
Flow control	Survey Purpose		Date Cleaned
Inspection Status Complete Inspection	Consequence Of Failure	Pressure	Direction Down
Inspection Technology Used	<input type="checkbox"/> CCTV <input type="checkbox"/> Laser <input type="checkbox"/> Sonar <input type="checkbox"/> Sidewall <input type="checkbox"/> Zoom <input type="checkbox"/> Other		
Street E BACON RD	City HILLSDALE	Drainage area	
Location Code		Pipe Use Sanitary Sewage Pipe	
Location details		Height 8	Width ins
Shape Circular	Material Vitrified Clay Pipe	Lining	
Coating	Pipe Joint length	Ft	Total length 349.6 Ft
Length Surveyed 353.0 Ft	Year Constructed		Year Renewed
Up 2522	Rim to invert	Grade to invert	Rim to grade Ft
Northing	Easting	Elevation	
Down 2523	Rim to invert	Grade to invert	Rim to grade Ft
Northing	Easting	Elevation	
Coordinate System	Vertical Datum		
GPS Accuracy	<div style="display: flex; justify-content: space-between;"> Structural O & M </div>		
Additional info	<div style="display: flex; justify-content: space-between;"> Miscellaneous Constructional </div>		

Count	Video	CD	Code	Val1	Val2	%	Jnt	Fr	To	Im	Ref	Remarks
0.0			ST Start of Survey									
0.0			AMH Manhole									2522
0.0			MWL Miscellaneous Water Level			5.000						
8.4			CL Crack Longitudinal				J	03				
9.0			CL Crack Longitudinal				J	05				
9.0			RFJ Roots Fine Joint				J	07	09			
11.0		S01	CM Crack Multiple				J	07	05			DEFECT WANDERS
14.8			RFJ Roots Fine Joint				J	07	05			DEFECT WANDERS
56.8			TF Tap Factory	8.000				09				
91.2			TF Tap Factory	8.000				09				
99.3			TF Tap Factory	8.000				03				
151.7			TFC Tap Factory Capped	8.000				03				
177.4			B Broken				J	12	05			
177.4			HSV Hole Soil Visible				J	12	05			
191.9			HSV Hole Soil Visible					12				
196.3			TF Tap Factory	6.000				09				
218.4			TF Tap Factory	6.000				03				
256.9			TF Tap Factory	6.000				09				
265.4			RFJ Roots Fine Joint				J	07	10			
267.5			FM Fracture Multiple				J	12	05			
271.1			TF Tap Factory	6.000				09				
287.1			TFD Tap Factory Defective	6.000				03				ROOTS
301.7			RFJ Roots Fine Joint				J	02	05			

Tabular Report of PSR 4298
for Hillsdale

Setup	249	Date	2021/04/30		Time	11:30		Up	2522				Down	2523			
Count	Video	CD Code				Val1	Val2	%	Jnt	Fr	To	ImRef	Remarks				
311.7			RFJ	Roots Fine Joint					J	03	05						
313.8			RFJ	Roots Fine Joint					J	03	05						
331.8			RFJ	Roots Fine Joint					J	09	03						
353.0		F01	CM	Crack Multiple					J	07	05		DEFECT WANDERS				
353.0			AMH	Manhole									2523				
353.0			FH	End of Survey													

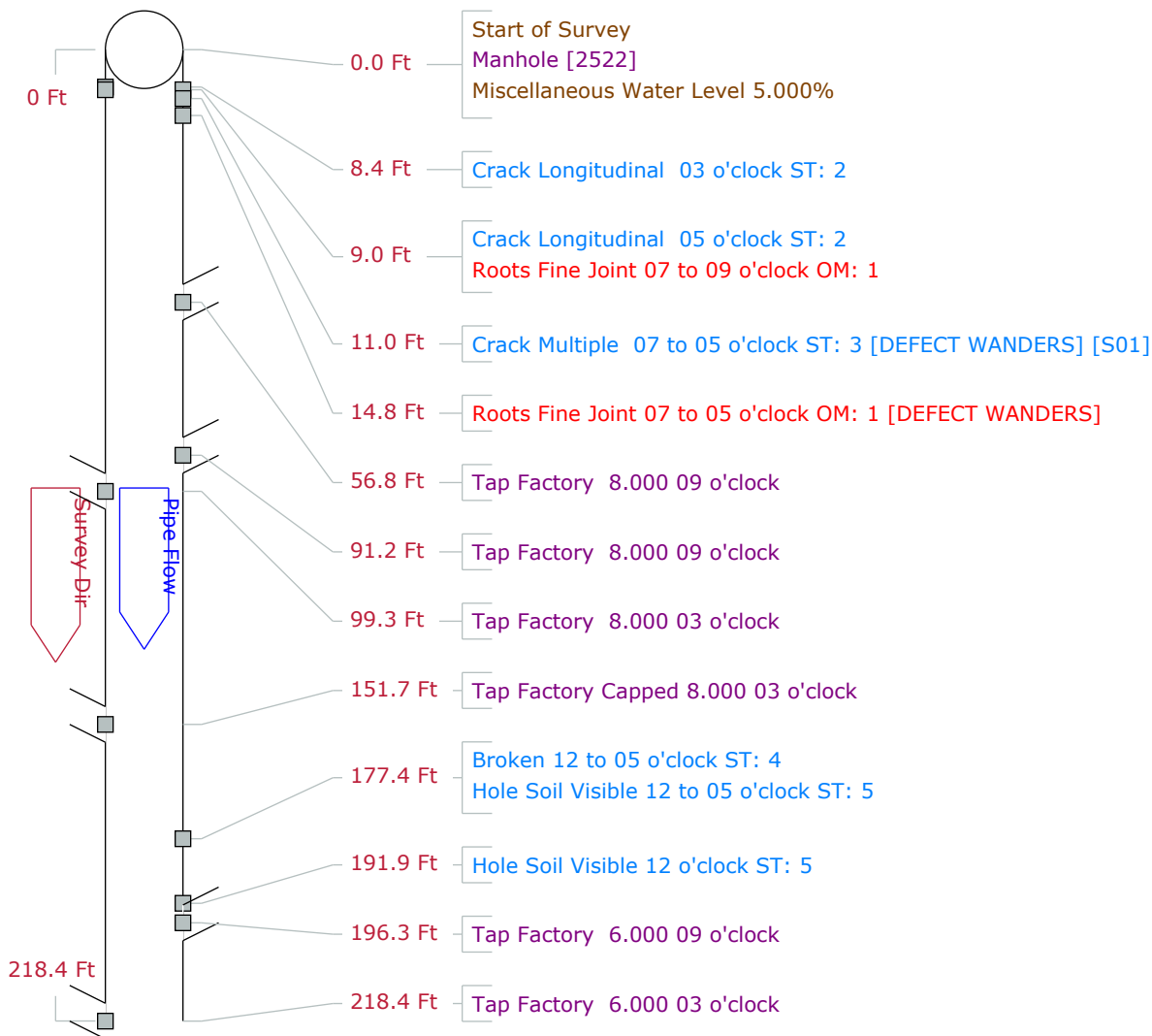
353.0 Ft Total Length Surveyed

Scores	Structural:	Pipe Rating	226	Pipe Ratings Index	3.1	Quick Rating	5242
	O&M:	Pipe Rating	10	Pipe Ratings Index	1.3	Quick Rating	3117
	Overall	Pipe Rating	236	Pipe Ratings Index	2.9	Quick Rating	5242

Pipe Graphic Report of PLR 4298

for Hillsdale

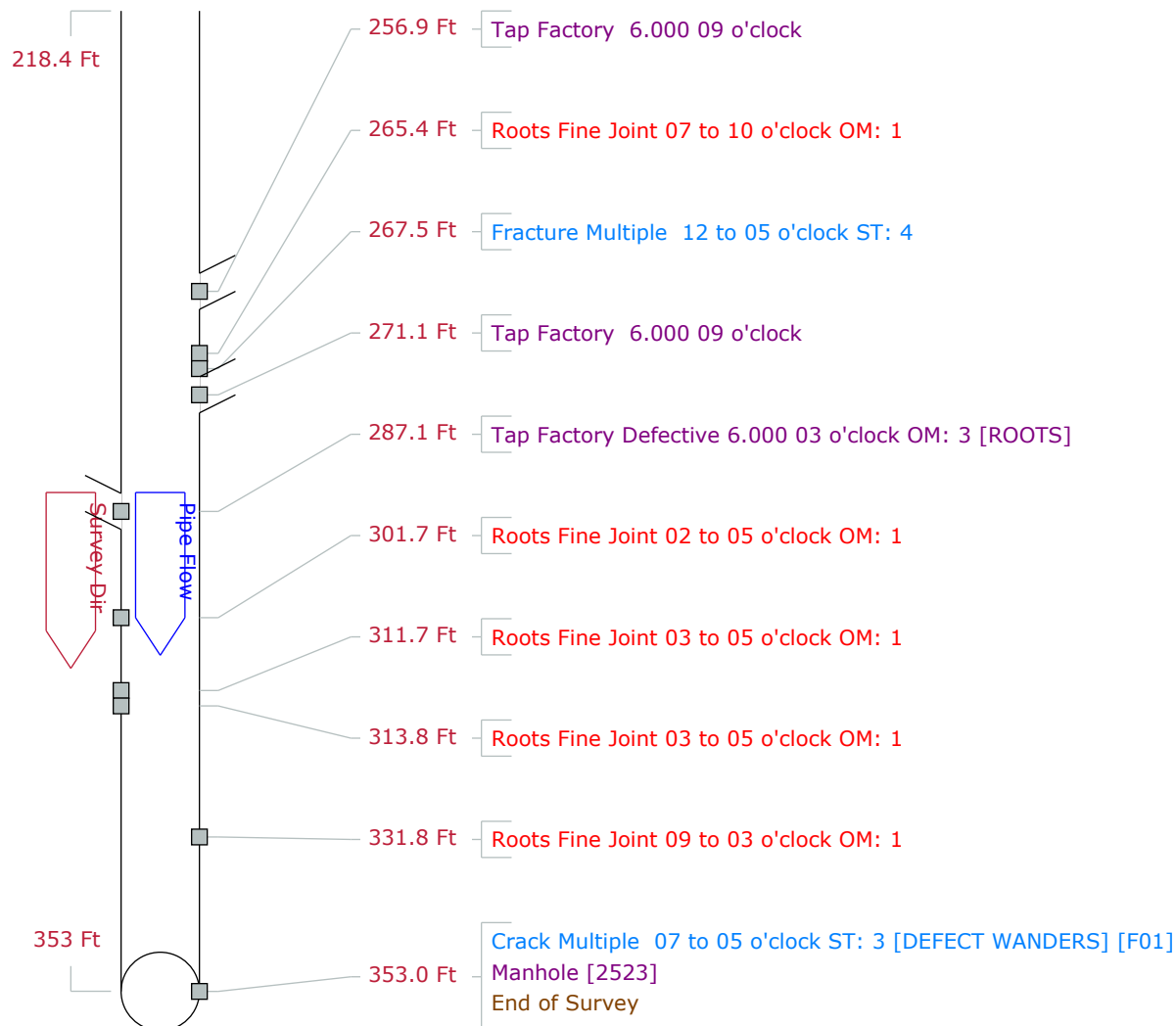
Setup	249	Surveyed By	MJT	Certificate #	U122070400698	Owner	
Reviewed By		Reviewer #		Work Order			
Customer				P/O #			
Media Label		Project	SANITARY				
Date	2021/04/30	Time	11:30	Weather	Dry - no Precipitation	Pre-Cleaning	N
Flow control		Survey Purpose				Date Cleaned	
Street	E BACON RD	City	HILLSDALE	Drainage area			
Location Code		Pipe Use	Sanitary Sewage Pipe				
Location details		Height	8	Width	ins		
Shape	Circular	Material	Vitrified Clay Pipe	Lining			
Coating		Pipe Joint length	Ft	Total length	349.6	Ft	Structural O & M
Length Surveyed	353.00	Year Constructed		Year Renewed			Miscellaneous Constructional
Additional info							
Up	2522	Rim to invert		Grade to invert		Rim to grade	Ft
Down	2523	Rim to invert		Grade to invert		Rim to grade	Ft



Pipe Graphic Report of PLR 4298

for Hillsdale

Setup	249	Surveyed By	MJT	Certificate #	U122070400698	Owner	
Reviewed By		Reviewer #		Work Order			
Customer				P/O #			
Media Label		Project	SANITARY				
Date	2021/04/30	Time	11:30	Weather	Dry - no Precipitation	Pre-Cleaning	N
Flow control		Survey Purpose				Date Cleaned	
Street	E BACON RD	City	HILLSDALE	Drainage area			
Location Code		Pipe Use	Sanitary Sewage Pipe				
Location details		Height	8	Width	ins		
Shape	Circular	Material	Vitrified Clay Pipe	Lining			
Coating		Pipe Joint length	Ft	Total length	349.6	Ft	Structural O & M
Length Surveyed	353.00	Year Constructed		Year Renewed			Miscellaneous Constructional
Additional info							
Up	2522	Rim to invert		Grade to invert		Rim to grade	Ft
Down	2523	Rim to invert		Grade to invert		Rim to grade	Ft



Counter:177.4
Code:B(Broken)
Percent:
From:12

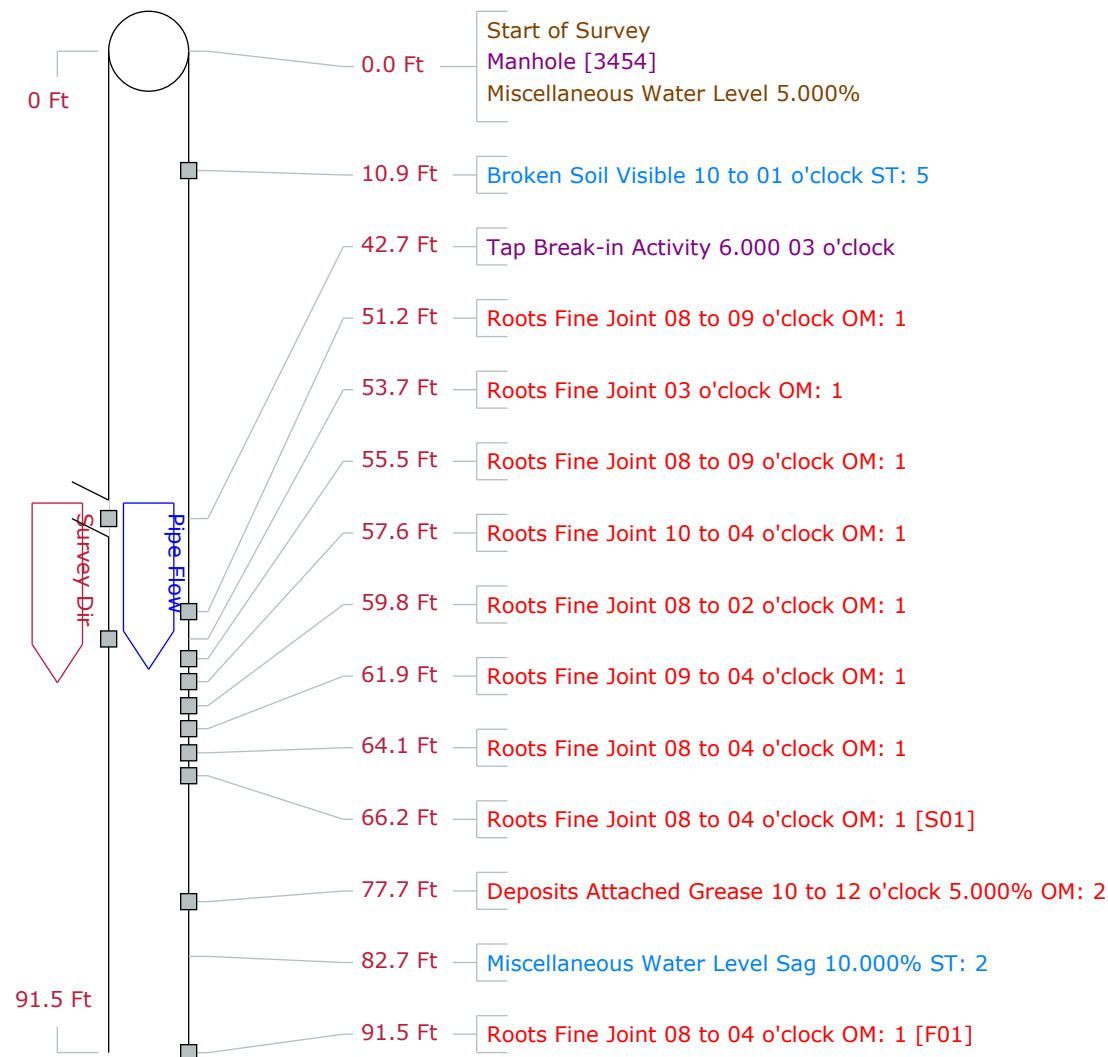


W. Bacon St. - Lining - MH3454 to 3453

Pipe Graphic Report of PLR 3912

for Hillsdale

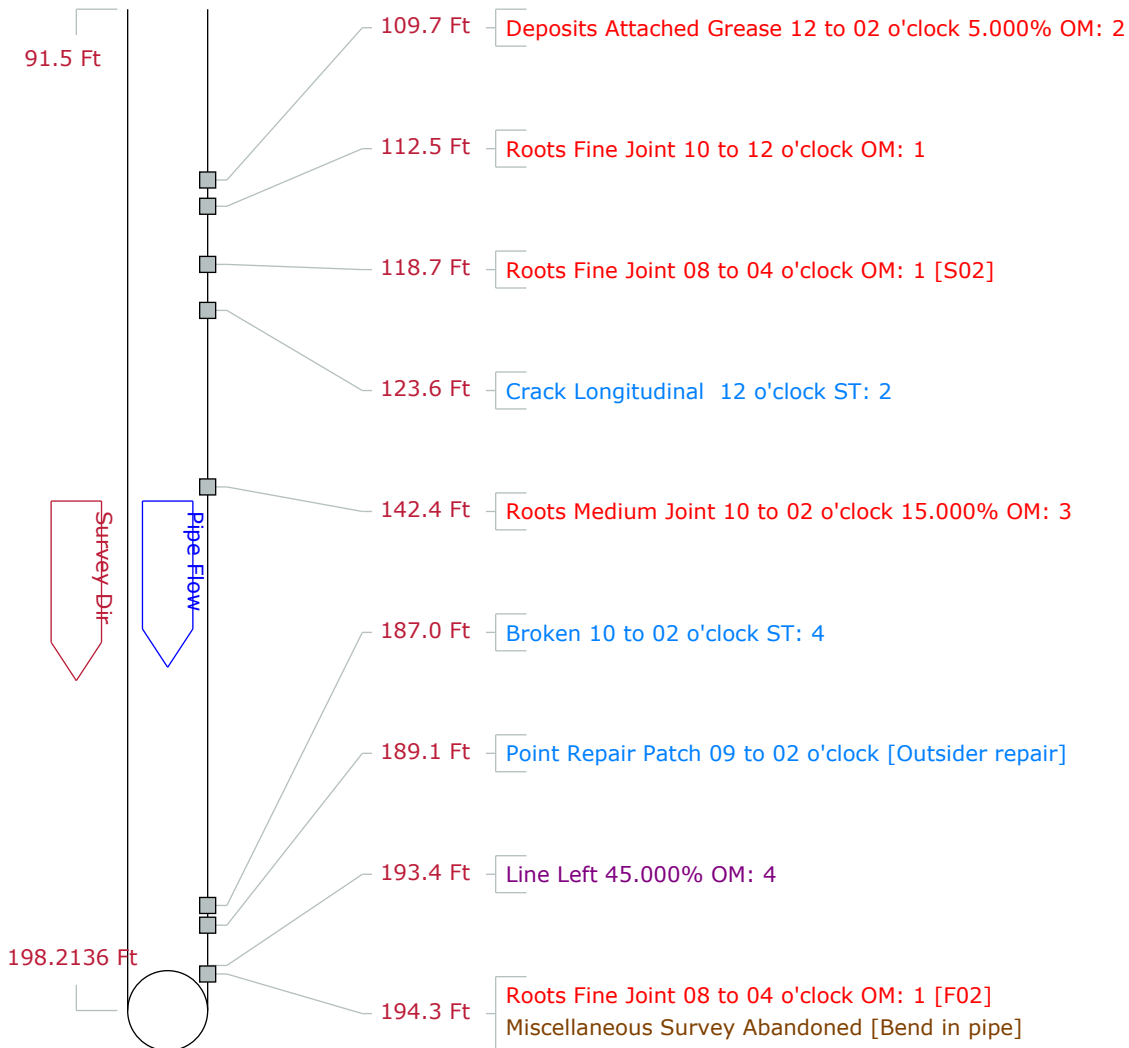
Setup	1063/	Surveyed By	JSG	Certificate #	U-607-5207	Owner	
Reviewed By		Reviewer #		Work Order			
Customer				P/O #			
Media Label		Project	SANITARY				
Date	2021/09/14	Time	16:01	Weather	Heavy Rain	Pre-Cleaning	L
Flow control	De-Watered using J	Survey Purpose	Routine Assessment			Direction	Downstream
Street	W Bacon St	City	Hillsdale			Drainage area	
Location Code				Pipe Use	Sanitary Sewage Pipe		
Location details				Height	8	Width	ins
Shape	Circular	Material	Vitrified Clay Pipe	Lining			
Coating		Pipe Joint length	Ft	Total length	198.2	Ft	Structural O & M
Length Surveyed	194.30 Ft	Year Constructed		Year Renewed			Miscellaneous Constructional
Additional info							
Up	3454	Rim to invert		Grade to invert		Rim to grade	Ft
Down	3453	Rim to invert		Grade to invert		Rim to grade	Ft



Pipe Graphic Report of PLR 3912

for Hillsdale

Setup	1063/	Surveyed By	JSG	Certificate #	U-607-5207	Owner	
Reviewed By		Reviewer #		Work Order			
Customer				P/O #			
Media Label		Project	SANITARY				
Date	2021/09/14	Time	16:01	Weather	Heavy Rain	Pre-Cleaning	L
Flow control	De-Watered using J	Survey Purpose	Routine Assessment			Direction	Downstream
Street	W Bacon St	City	Hillsdale			Drainage area	
Location Code				Pipe Use	Sanitary Sewage Pipe		
Location details				Height	8	Width	ins
Shape	Circular	Material	Vitrified Clay Pipe	Lining			
Coating		Pipe Joint length	Ft	Total length	198.2	Ft	Structural O & M
Length Surveyed	194.30 Ft	Year Constructed		Year Renewed			Miscellaneous Constructional
Additional info							
Up	3454	Rim to invert		Grade to invert		Rim to grade	Ft
Down	3453	Rim to invert		Grade to invert		Rim to grade	Ft



Tabular Report of PSR 3912
for Hillsdale

Setup 1063	Surveyed By JSG	Certificate # U-607-5207	Owner
Reviewed By	Reviewer #	Work Order	
Customer		P/O #	
Media Label	Project SANITARY		
Date 2021/09/14	Time 16:01	Weather Heavy Rain	Pre-Cleaning L
Flow control De-Watered using J	Survey Purpose Routine Assessment	Date Cleaned 2021/09/14	Direction Down
Inspection Status Complete Inspection	Consequence Of Failure	Pressure	
Inspection Technology Used	<input type="checkbox"/> CCTV <input type="checkbox"/> Laser <input type="checkbox"/> Sonar <input type="checkbox"/> Sidewall <input type="checkbox"/> Zoom <input type="checkbox"/> Other		
Street W Bacon St	City Hillsdale	Drainage area	
Location Code	Pipe Use Sanitary Sewage Pipe		
Location details	Height 8	Width ins	
Shape Circular	Material Vitrified Clay Pipe	Lining	
Coating	Pipe Joint length Ft	Total length 198.2 Ft	
Length Surveyed 194.3 Ft	Year Constructed	Year Renewed	
Up 3454	Rim to invert	Grade to invert	Rim to grade Ft
Northing	Easting	Elevation	
Down 3453	Rim to invert	Grade to invert	Rim to grade Ft
Northing	Easting	Elevation	
Coordinate System	Vertical Datum		
GPS Accuracy	<div> Structural O & M </div>		
Additional info	<div> Miscellaneous Constructional </div>		

Count	Video	CD	Code	Val1	Val2	%	Jnt	Fr	To	ImRef	Remarks
0.0			ST Start of Survey								
0.0			AMH Manhole								3454
0.0			MWL Miscellaneous Water Level			5.000					
10.9			BSV Broken Soil Visible					10	01		
42.7			TBA Tap Break-in Activity	6.000				03			
51.2			RFJ Roots Fine Joint				J	08	09		
53.7			RFJ Roots Fine Joint				J	03			
55.5			RFJ Roots Fine Joint				J	08	09		
57.6			RFJ Roots Fine Joint				J	10	04		
59.8			RFJ Roots Fine Joint				J	08	02		
61.9			RFJ Roots Fine Joint				J	09	04		
64.1			RFJ Roots Fine Joint				J	08	04		
66.2		S01	RFJ Roots Fine Joint				J	08	04		
77.7			DAGS Deposits Attached Grease			5.000		10	12		
82.7			MWLS Miscellaneous Water Level Sag			10.000					
91.5		F01	RFJ Roots Fine Joint				J	08	04		
109.7			DAGS Deposits Attached Grease			5.000		12	02		
112.5			RFJ Roots Fine Joint				J	10	12		
118.7		S02	RFJ Roots Fine Joint				J	08	04		
123.6			CL Crack Longitudinal					12			
142.4			RMJ Roots Medium Joint			15.000	J	10	02		
187.0			B Broken				J	10	02		
189.1			RPP Point Repair Patch					09	02		Outsider repair

Tabular Report of PSR 3912

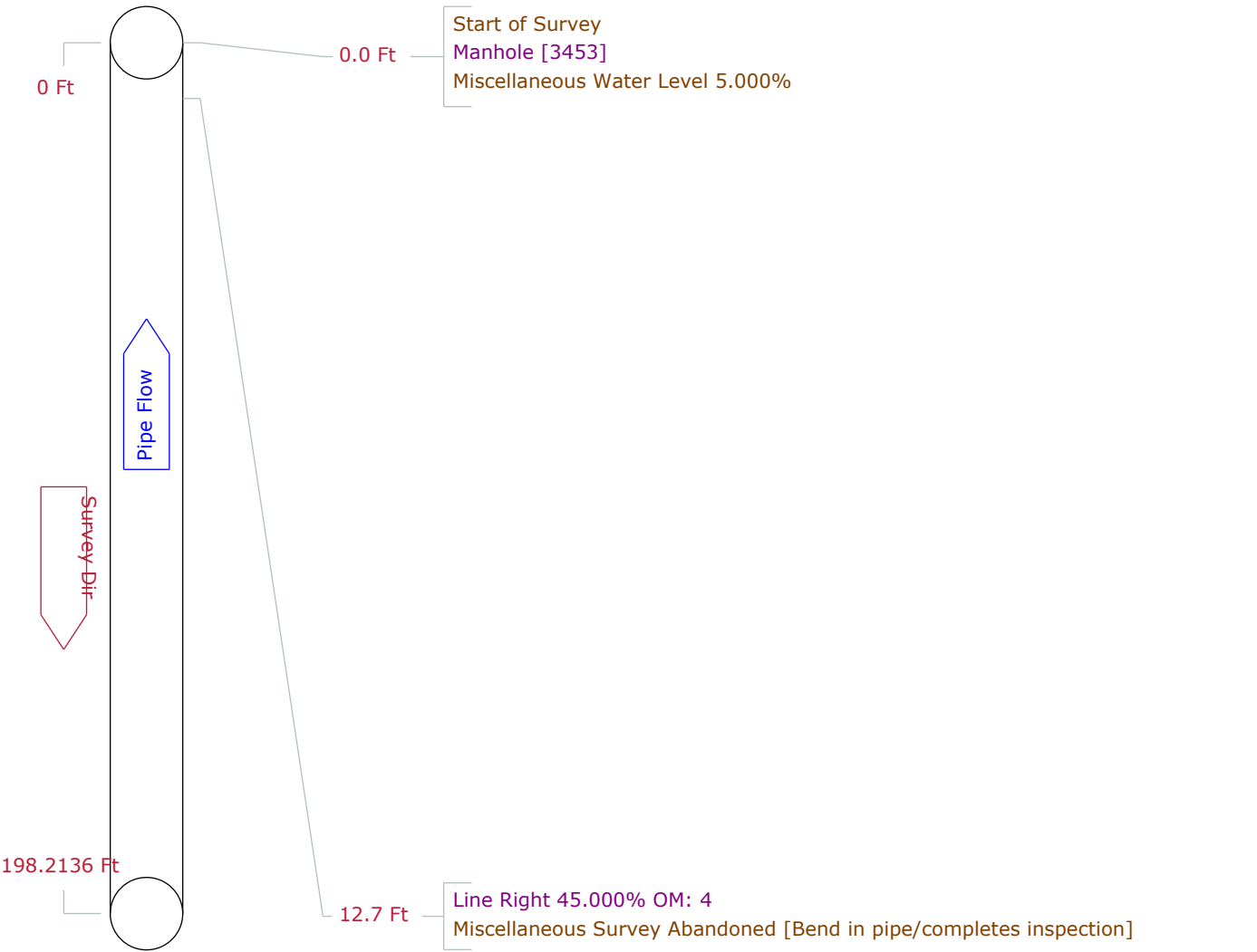
for Hillsdale

Setup	1063	Date	2021/09/14		Time	16:01	Up	3454	Down	3453		
Count	Video	CD	Code		Val1	Val2	%	Jnt	Fr	To	ImRef	Remarks
193.4			LL	Line Left			45.000					
194.3		F02	RFJ	Roots Fine Joint				J	08	04		
194.3			MSA	Miscellaneous Survey Abandoned								Bend in pipe

194.3 Ft Total Length Surveyed

Scores	Structural:	Pipe Rating	13	Pipe Ratings Index	3.3	Quick Rating	5141
	O&M:	Pipe Rating	39	Pipe Ratings Index	1.2	Quick Rating	4131
	Overall	Pipe Rating	52	Pipe Ratings Index	1.4	Quick Rating	5142

Pipe Graphic Report of PLR 3912				for Hillsdale					
Setup	1064/	Surveyed By	JSG	Certificate #	U-607-5207	Owner			
Reviewed By		Reviewer #		Work Order					
Customer				P/O #					
Media Label		Project		SANITARY					
Date	2021/09/14	Time	17:08	Weather	Heavy Rain	Pre-Cleaning	L	Date Cleaned	2021/09/14
Flow control	De-Watered using J	Survey Purpose	Routine Assessment			Direction	Upstream		
Street	W Bacon St			City	Hillsdale		Drainage area		
Location Code				Pipe Use	Sanitary Sewage Pipe				
Location details				Height	8	Width	ins		
Shape	Circular		Material	Vitrified Clay Pipe		Lining			
Coating			Pipe Joint length	Ft	Total length	198.2	Ft	<div>StructuralO & M</div>	
Length Surveyed	12.70	Ft	Year Constructed	Year Renewed		<div>MiscellaneousConstructional</div>			
Additional info		Reverse set up on sheet:133							
Up	3454		Rim to invert	Grade to invert		Rim to grade	Ft		
Down	3453		Rim to invert	Grade to invert		Rim to grade	Ft		



Tabular Report of PSR 3912

for Hillsdale

Setup 1064	Surveyed By JSG	Certificate # U-607-5207	Owner
Reviewed By	Reviewer #	Work Order	
Customer		P/O #	
Media Label	Project SANITARY		
Date 2021/09/14	Time 17:08	Weather Heavy Rain	Pre-Cleaning L
Flow control De-Watered using J	Survey Purpose Routine Assessment		Date Cleaned 2021/09/14
Inspection Status Complete Inspection	Consequence Of Failure	Pressure	
Inspection Technology Used	<input type="checkbox"/> CCTV <input type="checkbox"/> Laser <input type="checkbox"/> Sonar <input type="checkbox"/> Sidewall <input type="checkbox"/> Zoom <input type="checkbox"/> Other		
Street W Bacon St	City Hillsdale	Drainage area	
Location Code		Pipe Use Sanitary Sewage Pipe	
Location details		Height 8	Width ins
Shape Circular	Material Vitrified Clay Pipe	Lining	
Coating	Pipe Joint length	Ft	Total length 198.2 Ft
Length Surveyed 12.7 Ft	Year Constructed		Year Renewed
Up 3454	Rim to invert	Grade to invert	Rim to grade Ft
Northing	Easting	Elevation	
Down 3453	Rim to invert	Grade to invert	Rim to grade Ft
Northing	Easting	Elevation	
Coordinate System		Vertical Datum	
GPS Accuracy			Structural O & M Miscellaneous Constructional
Additional info	Reverse set up on sheet:133		

Count Video	CD Code	Val1	Val2	%	Jnt	Fr	To	ImRef	Remarks
0.0	ST								Start of Survey
0.0	AMH								Manhole 3453
0.0	MWL			5.000					Miscellaneous Water Level
12.7	LR			45.000					Line Right
12.7	MSA								Miscellaneous Survey Abandoned

12.7 Ft Total Length Surveyed

Scores	Structural:	Pipe Rating 0	Pipe Ratings Index 0	Quick Rating 0000
	O&M:	Pipe Rating 4	Pipe Ratings Index 4	Quick Rating 4100
	Overall	Pipe Rating 4	Pipe Ratings Index 4.0	Quick Rating 4100

City:Hillsdale Street:W Bacon St
From MH:3454 Dir:D To MH:3453
Mat:VCP Size:8ins

14:40

09.14.21

LC1: +0010.90 ft

Counter:187.0

Code:B

Percent:

From:10

To:02

Remarks:

15:40

09.14.21

LC1: +0187.00 ft

City:Hillsdale Street:W Bacon St
From MH:3454 Dir:D To MH:3453
Mat:VCP Size:8ins

15:41

09.14.21

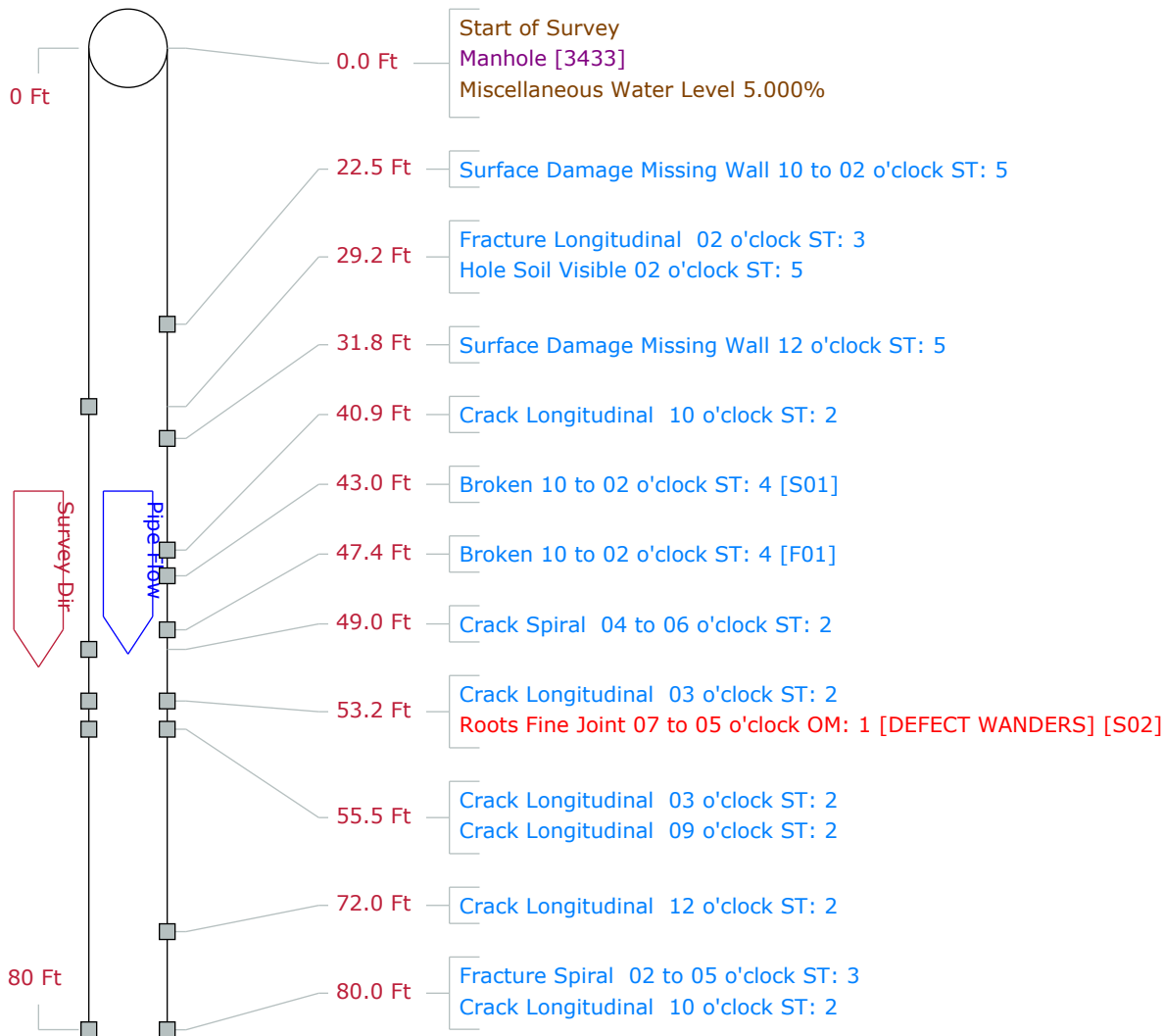
LC1: +0189.10 ft

W. South St. - Lining - MH3433 to New Manhole

Pipe Graphic Report of PLR 7826

for Hillsdale

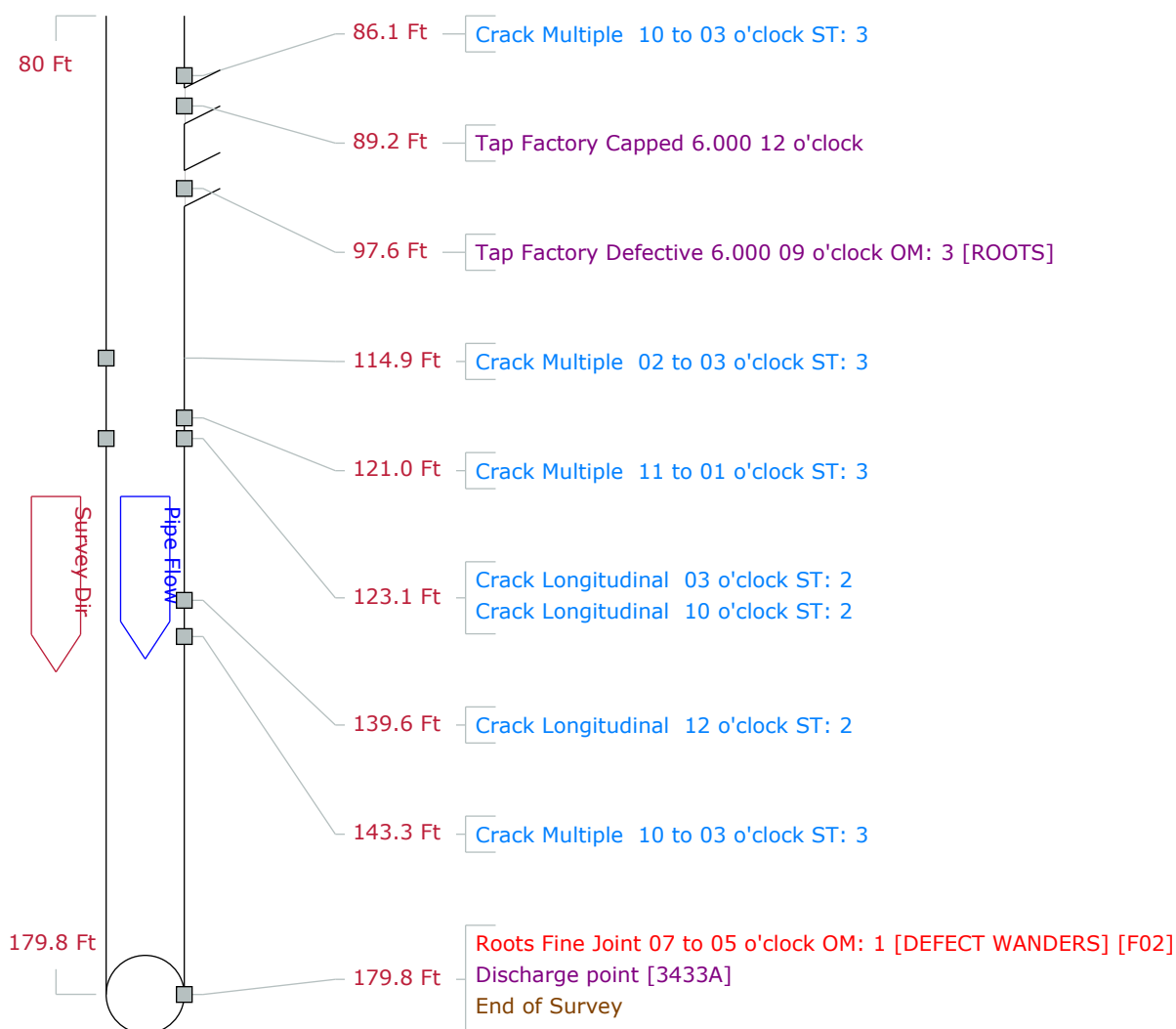
Setup	1010	Surveyed By	DLT	Certificate #	U-0717-07008329	Owner	
Reviewed By		Reviewer #		Work Order			
Customer				P/O #			
Media Label		Project	SANITARY				
Date	2021/08/27	Time	14:04	Weather	Dry - no Precipitation	Pre-Cleaning	L
Flow control		Survey Purpose				Direction	Downstream
Street	SOUTH	City	HILLSDALE	Drainage area			
Location Code		Pipe Use	Sanitary Sewage Pipe				
Location details		Height	6	Width	ins		
Shape	Circular	Material	Vitrified Clay Pipe	Lining			
Coating		Pipe Joint length	Ft	Total length	Ft	Structural	O & M
Length Surveyed	179.80 Ft	Year Constructed		Year Renewed		Miscellaneous	Constructional
Additional info							
Up	3433	Rim to invert		Grade to invert		Rim to grade	Ft
Down	3433A	Rim to invert		Grade to invert		Rim to grade	Ft



Pipe Graphic Report of PLR 7826

for Hillsdale

Setup	1010	Surveyed By	DLT	Certificate #	U-0717-07008329	Owner	
Reviewed By		Reviewer #		Work Order			
Customer				P/O #			
Media Label		Project	SANITARY				
Date	2021/08/27	Time	14:04	Weather	Dry - no Precipitation	Pre-Cleaning	L
Flow control		Survey Purpose				Direction	Downstream
Street	SOUTH	City	HILLSDALE	Drainage area			
Location Code		Pipe Use	Sanitary Sewage Pipe				
Location details		Height	6	Width	ins		
Shape	Circular	Material	Vitrified Clay Pipe	Lining			
Coating		Pipe Joint length	Ft	Total length	Ft	Structural	O & M
Length Surveyed	179.80 Ft	Year Constructed		Year Renewed		Miscellaneous	Constructional
Additional info							
Up	3433	Rim to invert		Grade to invert		Rim to grade	Ft
Down	3433A	Rim to invert		Grade to invert		Rim to grade	Ft



Tabular Report of PSR 7826
for Hillsdale

Setup 1010	Surveyed By DLT	Certificate # U-0717-07008329	Owner
Reviewed By	Reviewer #	Work Order	
Customer		P/O #	
Media Label	Project SANITARY		
Date 2021/08/27	Time 14:04	Weather Dry - no Precipitation	Pre-Cleaning L
Flow control	Survey Purpose		Date Cleaned
Inspection Status Complete Inspection	Consequence Of Failure	Pressure	Direction Down
Inspection Technology Used	<input type="checkbox"/> CCTV <input type="checkbox"/> Laser <input type="checkbox"/> Sonar <input type="checkbox"/> Sidewall <input type="checkbox"/> Zoom <input type="checkbox"/> Other		
Street SOUTH	City HILLSDALE	Drainage area	
Location Code		Pipe Use Sanitary Sewage Pipe	
Location details		Height 6	Width ins
Shape Circular	Material Vitrified Clay Pipe	Lining	
Coating	Pipe Joint length	Ft	Total length
Length Surveyed 179.8 Ft	Year Constructed		Year Renewed
Up 3433	Rim to invert	Grade to invert	Rim to grade Ft
Northing	Easting	Elevation	
Down 3433A	Rim to invert	Grade to invert	Rim to grade Ft
Northing	Easting	Elevation	
Coordinate System	Vertical Datum		
GPS Accuracy	<div> Structural O & M </div>		
Additional info	<div> Miscellaneous Constructional </div>		

Count	Video	CD	Code	Val1	Val2	%	Jnt	Fr	To	Im	Ref	Remarks
0.0			ST Start of Survey									
0.0			AMH Manhole									3433
0.0			MWL Miscellaneous Water Level			5.000						
22.5			SMW Surface Damage Missing Wall				J	10	02			
29.2			FL Fracture Longitudinal				J	02				
29.2			HSV Hole Soil Visible					02				
31.8			SMW Surface Damage Missing Wall					12				
40.9			CL Crack Longitudinal				J	10				
43.0		S01	B Broken					10	02			
47.4		F01	B Broken					10	02			
49.0			CS Crack Spiral				J	04	06			
53.2			CL Crack Longitudinal				J	03				
53.2		S02	RFJ Roots Fine Joint				J	07	05			DEFECT WANDERS
55.5			CL Crack Longitudinal				J	03				
55.5			CL Crack Longitudinal				J	09				
72.0			CL Crack Longitudinal				J	12				
80.0			FS Fracture Spiral				J	02	05			
80.0			CL Crack Longitudinal				J	10				
86.1			CM Crack Multiple				J	10	03			
89.2			TFC Tap Factory Capped	6.000				12				
97.6			TFD Tap Factory Defective	6.000				09				ROOTS
114.9			CM Crack Multiple				J	02	03			
121.0			CM Crack Multiple				J	11	01			

Tabular Report of PSR 7826
for Hillsdale

Setup	1010	Date	2021/08/27		Time	14:04		Up	3433				Down	3433A			
Count	Video	CD	Code			Val1	Val2	%	Jnt	Fr	To	ImRef	Remarks				
123.1			CL	Crack Longitudinal						J	03						
123.1			CL	Crack Longitudinal						J	10						
139.6			CL	Crack Longitudinal						J	12						
143.3			CM	Crack Multiple						J	10	03					
179.8		F02	RFJ	Roots Fine Joint						J	07	05		DEFECT WANDERS			
179.8			ADP	Discharge point										3433A			
179.8			FH	End of Survey													

179.8 Ft Total Length Surveyed

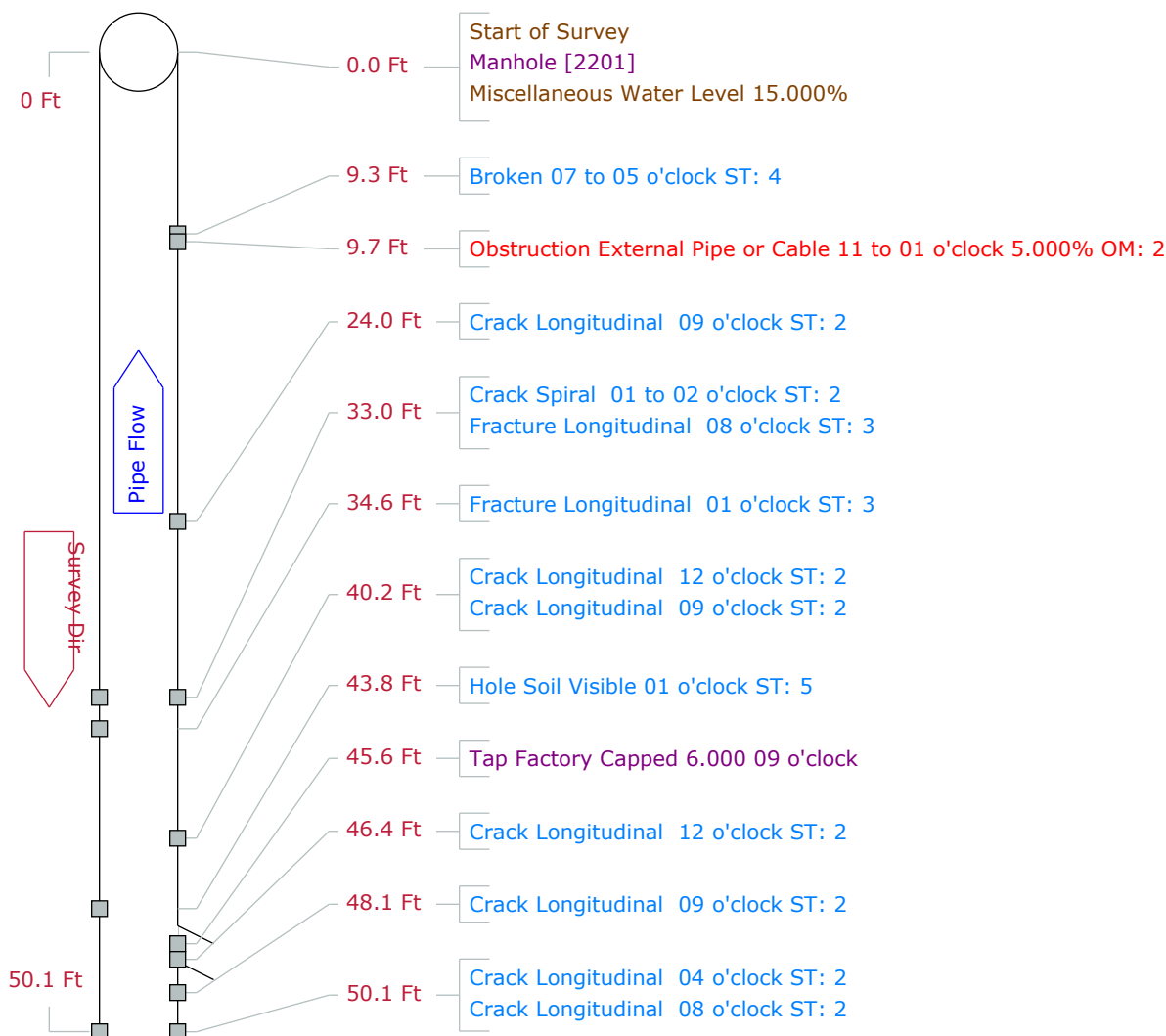
Scores	Structural:	Pipe Rating	57	Pipe Ratings Index	2.9	Quick Rating	5341
	O&M:	Pipe Rating	28	Pipe Ratings Index	1.1	Quick Rating	311D
	Overall	Pipe Rating	85	Pipe Ratings Index	1.8	Quick Rating	5341

Barber St. - Lining - MH2200 to 2201A to 2201

Pipe Graphic Report of PLR 4186

for Hillsdale

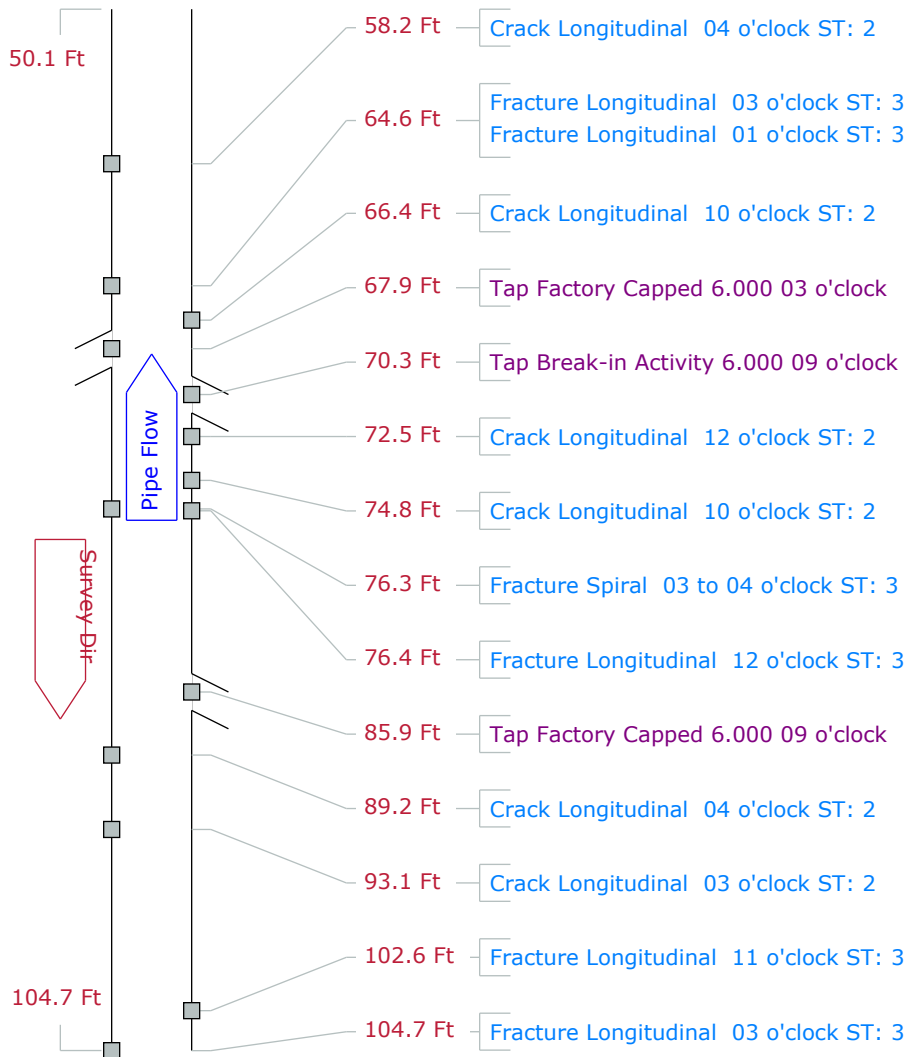
Setup	602	Surveyed By	AGS	Certificate #	U61406021126	Owner	
Reviewed By		Reviewer #		Work Order			
Customer				P/O #			
Media Label		Project	SANITARY				
Date	2021/06/16	Time	11:48	Weather	Dry - no Precipitation	Pre-Cleaning	N
Flow control		Survey Purpose				Date Cleaned	
Street	BARBER DR	City	HILLSDALE	Drainage area			
Location Code		Pipe Use	Sanitary Sewage Pipe				
Location details		Height	8	Width	ins		
Shape	Circular	Material	Vitrified Clay Pipe	Lining			
Coating		Pipe Joint length	Ft	Total length	338.7	Ft	Structural O & M
Length Surveyed	140.30	Year Constructed		Year Renewed			Miscellaneous Constructional
Additional info							
Up	2201A	Rim to invert		Grade to invert		Rim to grade	Ft
Down	2201	Rim to invert		Grade to invert		Rim to grade	Ft



Pipe Graphic Report of PLR 4186

for Hillsdale

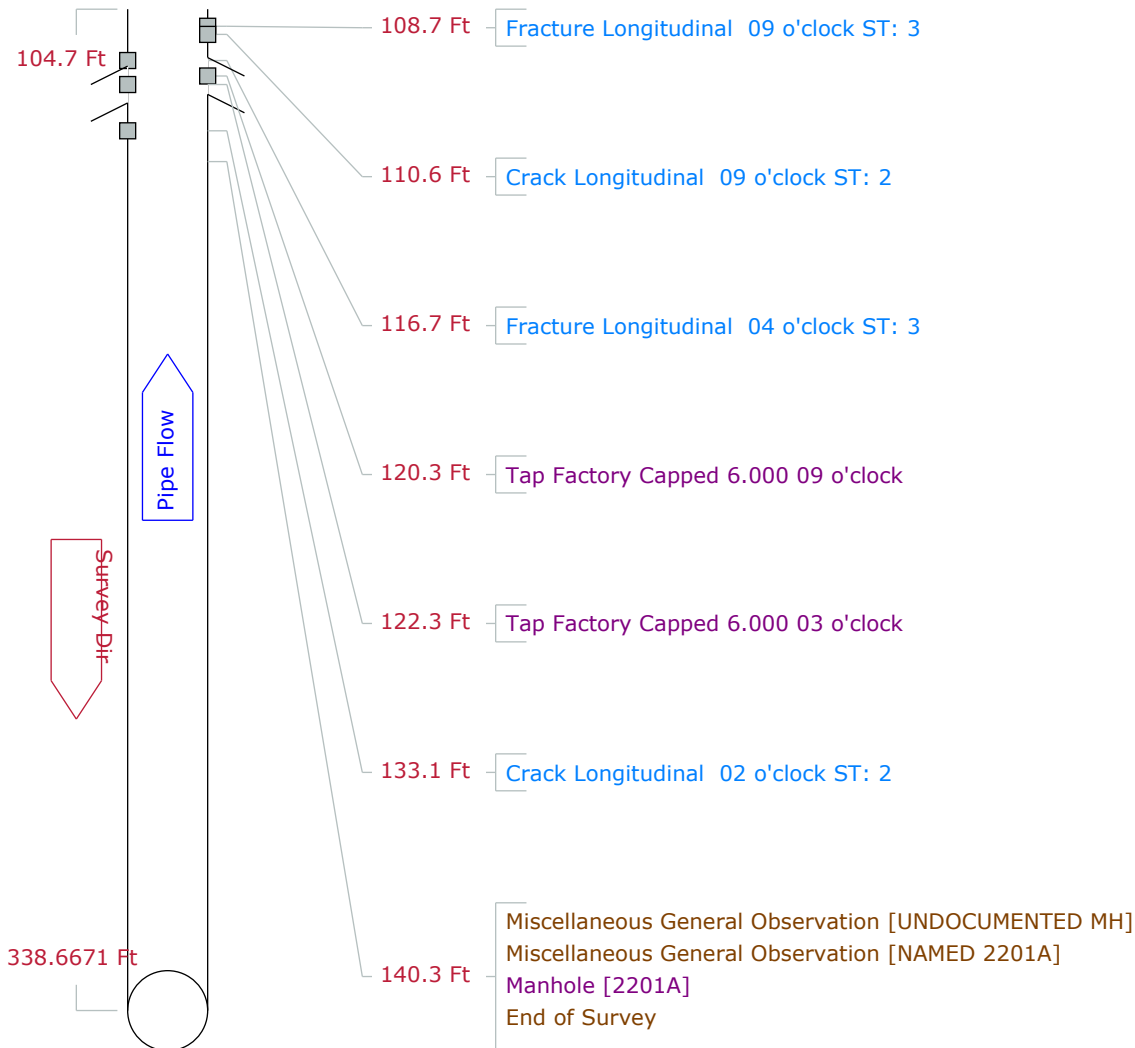
Setup	602	Surveyed By	AGS	Certificate #	U61406021126	Owner	
Reviewed By		Reviewer #		Work Order			
Customer				P/O #			
Media Label		Project	SANITARY				
Date	2021/06/16	Time	11:48	Weather	Dry - no Precipitation	Pre-Cleaning	N
Flow control		Survey Purpose				Date Cleaned	
Street	BARBER DR	City	HILLSDALE	Drainage area			
Location Code		Pipe Use	Sanitary Sewage Pipe				
Location details		Height	8	Width	ins		
Shape	Circular	Material	Vitrified Clay Pipe	Lining			
Coating		Pipe Joint length	Ft	Total length	338.7	Ft	Structural O & M
Length Surveyed	140.30	Year Constructed		Year Renewed			Miscellaneous Constructional
Additional info							
Up	2201A	Rim to invert		Grade to invert		Rim to grade	Ft
Down	2201	Rim to invert		Grade to invert		Rim to grade	Ft



Pipe Graphic Report of PLR 4186

for Hillsdale

Setup	602	Surveyed By	AGS	Certificate #	U61406021126	Owner	
Reviewed By		Reviewer #		Work Order			
Customer				P/O #			
Media Label		Project	SANITARY				
Date	2021/06/16	Time	11:48	Weather	Dry - no Precipitation	Pre-Cleaning	N
Flow control		Survey Purpose				Date Cleaned	
Street	BARBER DR	City	HILLSDALE	Drainage area			
Location Code		Pipe Use	Sanitary Sewage Pipe				
Location details		Height	8	Width	ins		
Shape	Circular	Material	Vitrified Clay Pipe	Lining			
Coating		Pipe Joint length	Ft	Total length	338.7	Ft	Structural O & M
Length Surveyed	140.30	Year Constructed		Year Renewed			Miscellaneous Constructional
Additional info							
Up	2201A	Rim to invert		Grade to invert		Rim to grade	Ft
Down	2201	Rim to invert		Grade to invert		Rim to grade	Ft



Tabular Report of PSR 4186
for Hillsdale

Setup 602	Surveyed By AGS	Certificate # U61406021126	Owner
Reviewed By	Reviewer #	Work Order	
Customer		P/O #	
Media Label	Project SANITARY		
Date 2021/06/16	Time 11:48	Weather Dry - no Precipitation	Pre-Cleaning N
Flow control	Survey Purpose		Date Cleaned
Inspection Status Complete Inspection	Consequence Of Failure	Pressure	
Inspection Technology Used	<input type="checkbox"/> CCTV <input type="checkbox"/> Laser <input type="checkbox"/> Sonar <input type="checkbox"/> Sidewall <input type="checkbox"/> Zoom <input type="checkbox"/> Other		
Street BARBER DR	City HILLSDALE	Drainage area	
Location Code		Pipe Use Sanitary Sewage Pipe	
Location details		Height 8	Width ins
Shape Circular	Material Vitrified Clay Pipe	Lining	
Coating	Pipe Joint length Ft	Total length 338.7	Ft
Length Surveyed 140.3 Ft	Year Constructed	Year Renewed	
Up 2201A	Rim to invert	Grade to invert	Rim to grade Ft
Northing	Easting	Elevation	
Down 2201	Rim to invert	Grade to invert	Rim to grade Ft
Northing	Easting	Elevation	
Coordinate System	Vertical Datum		
GPS Accuracy	<div> Structural O & M Miscellaneous Constructional </div>		
Additional info			

Count	Video	CD	Code	Val1	Val2	%	Jnt	Fr	To	Im	Ref	Remarks
0.0			ST Start of Survey									
0.0			AMH Manhole									2201
0.0			MWL Miscellaneous Water Level			15.000						
9.3			B Broken				J	07	05			
9.7			OBP Obstruction External Pipe or Cable			5.000		11	01			
24.0			CL Crack Longitudinal				J	09				
33.0			CS Crack Spiral				J	01	02			
33.0			FL Fracture Longitudinal				J	08				
34.6			FL Fracture Longitudinal				J	01				
40.2			CL Crack Longitudinal				J	12				
40.2			CL Crack Longitudinal				J	09				
43.8			HSV Hole Soil Visible					01				
45.6			TFC Tap Factory Capped	6.000				09				
46.4			CL Crack Longitudinal				J	12				
48.1			CL Crack Longitudinal				J	09				
50.1			CL Crack Longitudinal				J	04				
50.1			CL Crack Longitudinal				J	08				
58.2			CL Crack Longitudinal				J	04				
64.6			FL Fracture Longitudinal				J	03				
64.6			FL Fracture Longitudinal				J	01				
66.4			CL Crack Longitudinal				J	10				
67.9			TFC Tap Factory Capped	6.000				03				
70.3			TBA Tap Break-in Activity	6.000				09				

Tabular Report of PSR 4186
for Hillsdale

Setup	602	Date	2021/06/16	Time	11:48	Up	2201A	Down	2201
Count Video	CD	Code	Val1	Val2	%	Jnt	Fr To	ImRef	Remarks
72.5		CL Crack Longitudinal				J	12		
74.8		CL Crack Longitudinal				J	10		
76.3		FS Fracture Spiral				J	03 04		
76.4		FL Fracture Longitudinal				J	12		
85.9		TFC Tap Factory Capped	6.000				09		
89.2		CL Crack Longitudinal				J	04		
93.1		CL Crack Longitudinal				J	03		
102.6		FL Fracture Longitudinal				J	11		
104.7		FL Fracture Longitudinal				J	03		
108.7		FL Fracture Longitudinal				J	09		
110.6		CL Crack Longitudinal				J	09		
116.7		FL Fracture Longitudinal				J	04		
120.3		TFC Tap Factory Capped	6.000				09		
122.3		TFC Tap Factory Capped	6.000				03		
133.1		CL Crack Longitudinal				J	02		
140.3		MGO Miscellaneous General Observation							UNDOCUMENTED MH
140.3		MGO Miscellaneous General Observation							NAMED 2201A
140.3		AMH Manhole							2201A
140.3		FH End of Survey							

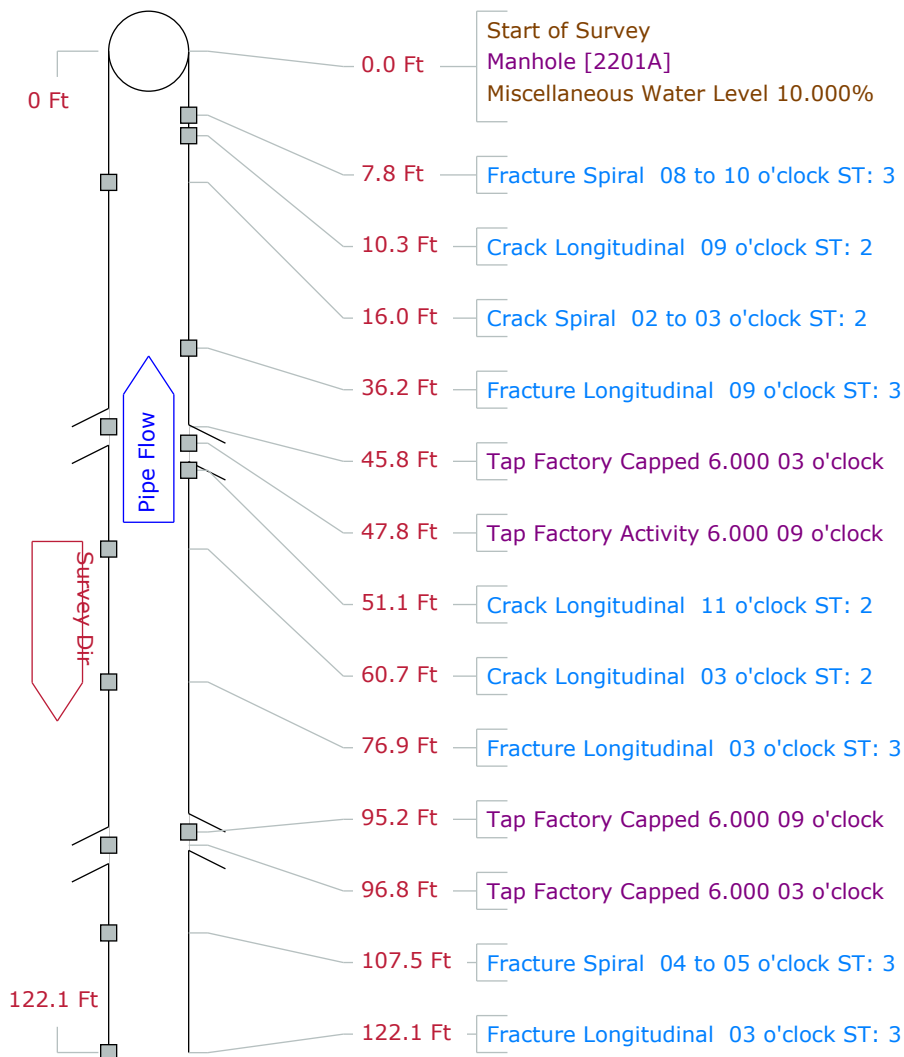
140.3 Ft Total Length Surveyed

Scores	Structural:	Pipe Rating 71	Pipe Ratings Index 2.5	Quick Rating 5141
	O&M:	Pipe Rating 2	Pipe Ratings Index 2	Quick Rating 2100
	Overall	Pipe Rating 73	Pipe Ratings Index 2.5	Quick Rating 5141

Pipe Graphic Report of PLR 4186A

for Hillsdale

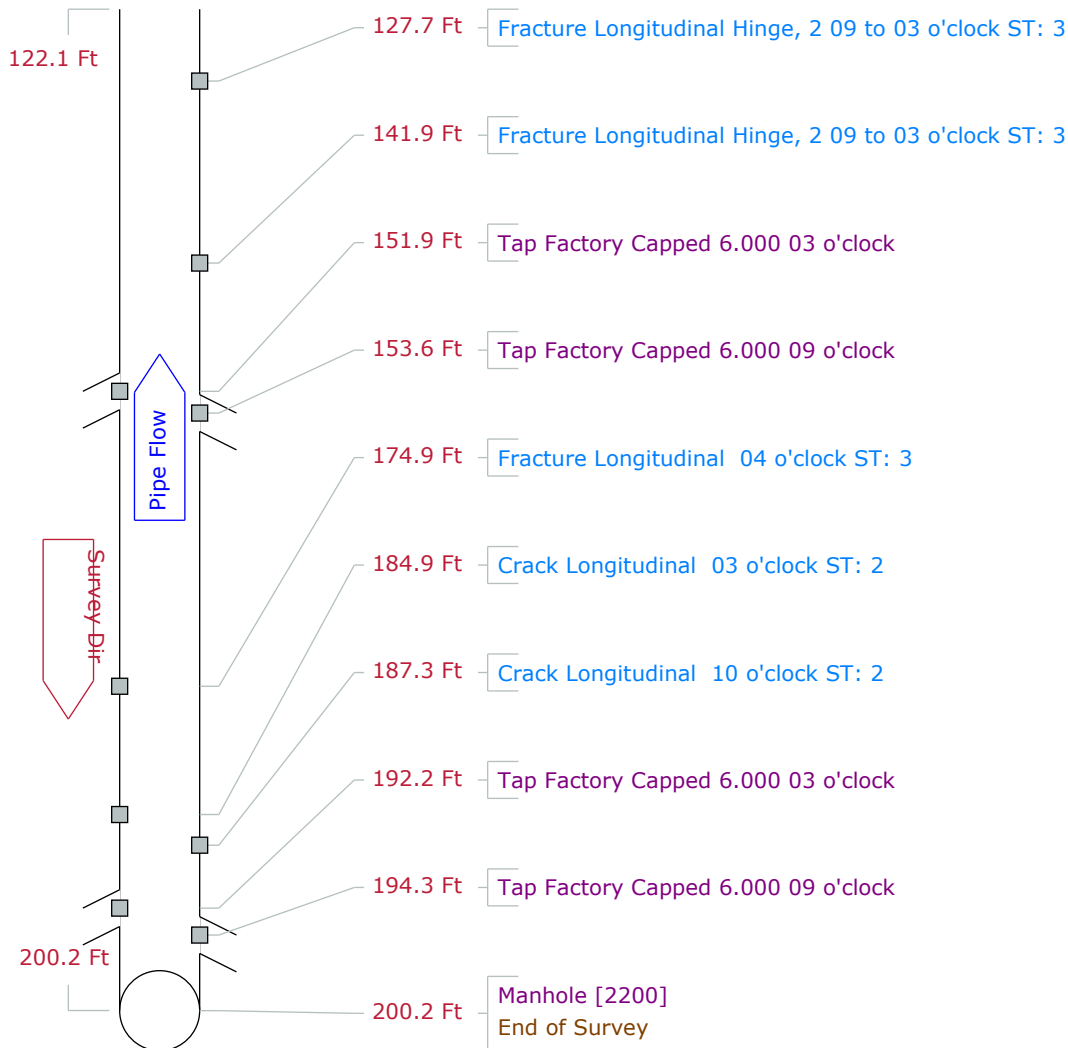
Setup	603	Surveyed By	AGS	Certificate #	U61406021126	Owner	
Reviewed By		Reviewer #		Work Order			
Customer				P/O #			
Media Label		Project	SANITARY				
Date	2021/06/16	Time	12:14	Weather	Dry - no Precipitation	Pre-Cleaning	N
Flow control		Survey Purpose				Date Cleaned	
Street	BARBER DR	City	HILLSDALE	Drainage area			
Location Code		Pipe Use	Sanitary Sewage Pipe				
Location details		Height	8	Width	ins		
Shape	Circular	Material	Vitrified Clay Pipe	Lining			
Coating		Pipe Joint length	Ft	Total length	Ft	Structural	O & M
Length Surveyed	200.20 Ft	Year Constructed		Year Renewed		Miscellaneous	Constructional
Additional info							
Up	2200	Rim to invert		Grade to invert		Rim to grade	Ft
Down	2201A	Rim to invert		Grade to invert		Rim to grade	Ft



Pipe Graphic Report of PLR 4186A

for Hillsdale

Setup	603	Surveyed By	AGS	Certificate #	U61406021126	Owner	
Reviewed By		Reviewer #		Work Order			
Customer				P/O #			
Media Label		Project	SANITARY				
Date	2021/06/16	Time	12:14	Weather	Dry - no Precipitation	Pre-Cleaning	N
Flow control		Survey Purpose				Date Cleaned	
Street	BARBER DR	City	HILLSDALE	Drainage area			
Location Code		Pipe Use	Sanitary Sewage Pipe				
Location details		Height	8	Width	ins		
Shape	Circular	Material	Vitrified Clay Pipe	Lining			
Coating		Pipe Joint length	Ft	Total length	Ft	Structural	O & M
Length Surveyed	200.20 Ft	Year Constructed		Year Renewed		Miscellaneous	Constructional
Additional info							
Up	2200	Rim to invert		Grade to invert		Rim to grade	Ft
Down	2201A	Rim to invert		Grade to invert		Rim to grade	Ft



Tabular Report of PSR 4186A
for Hillsdale

Setup 603	Surveyed By AGS	Certificate # U61406021126	Owner
Reviewed By	Reviewer #	Work Order	
Customer		P/O #	
Media Label	Project SANITARY		
Date 2021/06/16	Time 12:14	Weather Dry - no Precipitation	Pre-Cleaning N
Flow control	Survey Purpose		Date Cleaned
Inspection Status Complete Inspection	Consequence Of Failure	Pressure	
Inspection Technology Used	<input type="checkbox"/> CCTV <input type="checkbox"/> Laser <input type="checkbox"/> Sonar <input type="checkbox"/> Sidewall <input type="checkbox"/> Zoom <input type="checkbox"/> Other		
Street BARBER DR	City HILLSDALE	Drainage area	
Location Code		Pipe Use Sanitary Sewage Pipe	
Location details		Height 8	Width ins
Shape Circular	Material Vitrified Clay Pipe	Lining	
Coating	Pipe Joint length Ft	Total length	Ft
Length Surveyed 200.2 Ft	Year Constructed	Year Renewed	
Up 2200	Rim to invert	Grade to invert	Rim to grade Ft
Northing	Easting	Elevation	
Down 2201A	Rim to invert	Grade to invert	Rim to grade Ft
Northing	Easting	Elevation	
Coordinate System	Vertical Datum		
GPS Accuracy	<div> Structural O & M </div>		
Additional info	<div> Miscellaneous Constructional </div>		

Count	Video	CD	Code	Val1	Val2	%	Jnt	Fr	To	Im	Ref	Remarks
0.0			ST Start of Survey									
0.0			AMH Manhole									2201A
0.0			MWL Miscellaneous Water Level			10.000						
7.8			FS Fracture Spiral				J	08	10			
10.3			CL Crack Longitudinal				J	09				
16.0			CS Crack Spiral				J	02	03			
36.2			FL Fracture Longitudinal				J	09				
45.8			TFC Tap Factory Capped	6.000				03				
47.8			TFA Tap Factory Activity	6.000				09				
51.1			CL Crack Longitudinal				J	11				
60.7			CL Crack Longitudinal				J	03				
76.9			FL Fracture Longitudinal				J	03				
95.2			TFC Tap Factory Capped	6.000				09				
96.8			TFC Tap Factory Capped	6.000				03				
107.5			FS Fracture Spiral				J	04	05			
122.1			FL Fracture Longitudinal				J	03				
127.7			FH2 Fracture Longitudinal Hinge, 2				J	09	03			
141.9			FH2 Fracture Longitudinal Hinge, 2				J	09	03			
151.9			TFC Tap Factory Capped	6.000				03				
153.6			TFC Tap Factory Capped	6.000				09				
174.9			FL Fracture Longitudinal				J	04				
184.9			CL Crack Longitudinal				J	03				
187.3			CL Crack Longitudinal				J	10				

Tabular Report of PSR 4186A

for Hillsdale

Setup	603	Date	2021/06/16	Time	12:14	Up	2200	Down	2201A		
Count	Video	CD	Code	Val1	Val2	%	Jnt	Fr	To	ImRef	Remarks
192.2			TFC Tap Factory Capped	6.000				03			
194.3			TFC Tap Factory Capped	6.000				09			
200.2			AMH Manhole								2200
200.2			FH End of Survey								

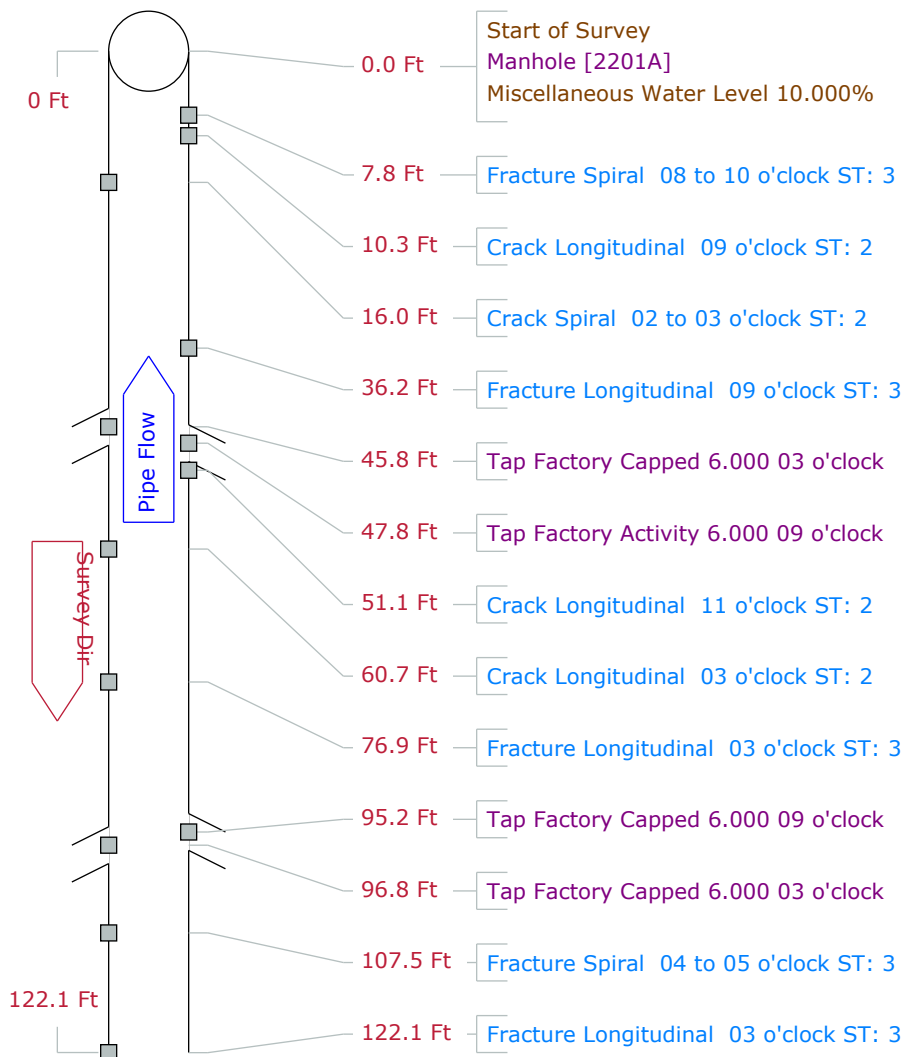
200.2 Ft Total Length Surveyed

Scores	Structural:	Pipe Rating	36	Pipe Ratings Index	2.6	Quick Rating	3826
	O&M:	Pipe Rating	0	Pipe Ratings Index	0	Quick Rating	0000
	Overall	Pipe Rating	36	Pipe Ratings Index	2.6	Quick Rating	3826

Pipe Graphic Report of PLR 4186A

for Hillsdale

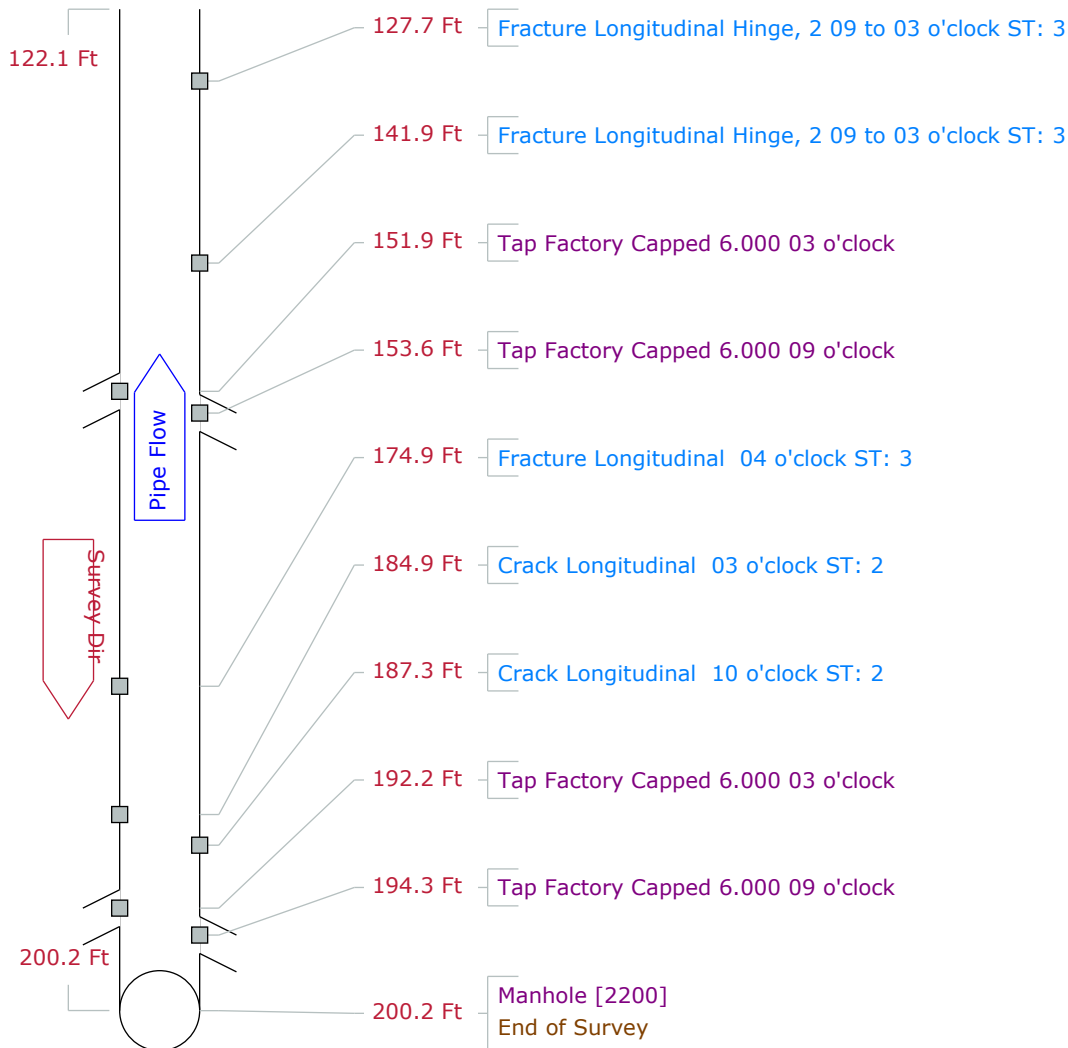
Setup	603	Surveyed By	AGS	Certificate #	U61406021126	Owner	
Reviewed By		Reviewer #		Work Order			
Customer				P/O #			
Media Label		Project	SANITARY				
Date	2021/06/16	Time	12:14	Weather	Dry - no Precipitation	Pre-Cleaning	N
Flow control		Survey Purpose				Date Cleaned	
Street	BARBER DR	City	HILLSDALE	Drainage area			
Location Code		Pipe Use	Sanitary Sewage Pipe				
Location details		Height	8	Width	ins		
Shape	Circular	Material	Vitrified Clay Pipe	Lining			
Coating		Pipe Joint length	Ft	Total length	Ft	Structural	O & M
Length Surveyed	200.20 Ft	Year Constructed		Year Renewed		Miscellaneous	Constructional
Additional info							
Up	2200	Rim to invert		Grade to invert		Rim to grade	Ft
Down	2201A	Rim to invert		Grade to invert		Rim to grade	Ft



Pipe Graphic Report of PLR 4186A

for Hillsdale

Setup	603	Surveyed By	AGS	Certificate #	U61406021126	Owner	
Reviewed By		Reviewer #		Work Order			
Customer				P/O #			
Media Label		Project	SANITARY				
Date	2021/06/16	Time	12:14	Weather	Dry - no Precipitation	Pre-Cleaning	N
Flow control		Survey Purpose				Date Cleaned	
Street	BARBER DR	City	HILLSDALE	Drainage area			
Location Code		Pipe Use	Sanitary Sewage Pipe				
Location details		Height	8	Width	ins		
Shape	Circular	Material	Vitrified Clay Pipe	Lining			
Coating		Pipe Joint length	Ft	Total length	Ft	Structural	O & M
Length Surveyed	200.20 Ft	Year Constructed		Year Renewed		Miscellaneous	Constructional
Additional info							
Up	2200	Rim to invert		Grade to invert		Rim to grade	Ft
Down	2201A	Rim to invert		Grade to invert		Rim to grade	Ft



Tabular Report of PSR 4186A
for Hillsdale

Setup 603	Surveyed By AGS	Certificate # U61406021126	Owner
Reviewed By	Reviewer #	Work Order	
Customer		P/O #	
Media Label	Project SANITARY		
Date 2021/06/16	Time 12:14	Weather Dry - no Precipitation	Pre-Cleaning N
Flow control	Survey Purpose		Date Cleaned
Inspection Status Complete Inspection	Consequence Of Failure	Pressure	
Inspection Technology Used	<input type="checkbox"/> CCTV <input type="checkbox"/> Laser <input type="checkbox"/> Sonar <input type="checkbox"/> Sidewall <input type="checkbox"/> Zoom <input type="checkbox"/> Other		
Street BARBER DR	City HILLSDALE	Drainage area	
Location Code		Pipe Use Sanitary Sewage Pipe	
Location details		Height 8	Width ins
Shape Circular	Material Vitrified Clay Pipe	Lining	
Coating	Pipe Joint length Ft	Total length Ft	
Length Surveyed 200.2 Ft	Year Constructed	Year Renewed	
Up 2200	Rim to invert	Grade to invert	Rim to grade Ft
Northing	Easting	Elevation	
Down 2201A	Rim to invert	Grade to invert	Rim to grade Ft
Northing	Easting	Elevation	
Coordinate System	Vertical Datum		
GPS Accuracy	<div> Structural O & M </div>		
Additional info	<div> Miscellaneous Constructional </div>		

Count	Video	CD	Code	Val1	Val2	%	Jnt	Fr	To	Im	Ref	Remarks
0.0			ST Start of Survey									
0.0			AMH Manhole									2201A
0.0			MWL Miscellaneous Water Level			10.000						
7.8			FS Fracture Spiral				J	08	10			
10.3			CL Crack Longitudinal				J	09				
16.0			CS Crack Spiral				J	02	03			
36.2			FL Fracture Longitudinal				J	09				
45.8			TFC Tap Factory Capped	6.000				03				
47.8			TFA Tap Factory Activity	6.000				09				
51.1			CL Crack Longitudinal				J	11				
60.7			CL Crack Longitudinal				J	03				
76.9			FL Fracture Longitudinal				J	03				
95.2			TFC Tap Factory Capped	6.000				09				
96.8			TFC Tap Factory Capped	6.000				03				
107.5			FS Fracture Spiral				J	04	05			
122.1			FL Fracture Longitudinal				J	03				
127.7			FH2 Fracture Longitudinal Hinge, 2				J	09	03			
141.9			FH2 Fracture Longitudinal Hinge, 2				J	09	03			
151.9			TFC Tap Factory Capped	6.000				03				
153.6			TFC Tap Factory Capped	6.000				09				
174.9			FL Fracture Longitudinal				J	04				
184.9			CL Crack Longitudinal				J	03				
187.3			CL Crack Longitudinal				J	10				

Tabular Report of PSR 4186A

for Hillsdale

Setup	603	Date	2021/06/16	Time	12:14	Up	2200	Down	2201A		
Count	Video	CD	Code	Val1	Val2	%	Jnt	Fr	To	ImRef	Remarks
192.2			TFC Tap Factory Capped	6.000				03			
194.3			TFC Tap Factory Capped	6.000				09			
200.2			AMH Manhole								2200
200.2			FH End of Survey								

200.2 Ft Total Length Surveyed

Scores	Structural:	Pipe Rating	36	Pipe Ratings Index	2.6	Quick Rating	3826
	O&M:	Pipe Rating	0	Pipe Ratings Index	0	Quick Rating	0000
	Overall	Pipe Rating	36	Pipe Ratings Index	2.6	Quick Rating	3826

Counter 9.3

Code B

Percent

From: 07

To: 05

Remarks:

23:21

05.05.94

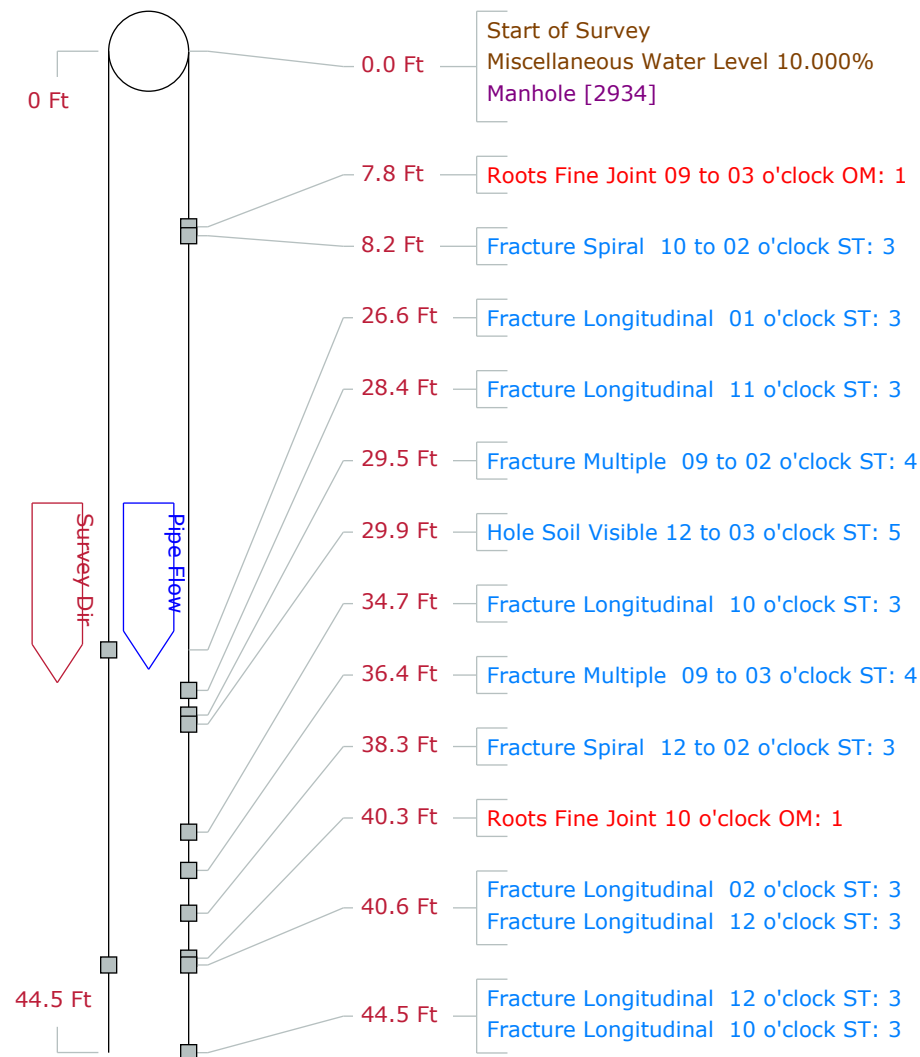
LC1: 009.30 ft

at Fairgrounds - Lining - MH2934 to 3933

Pipe Graphic Report of PLR 4048

for Hillsdale

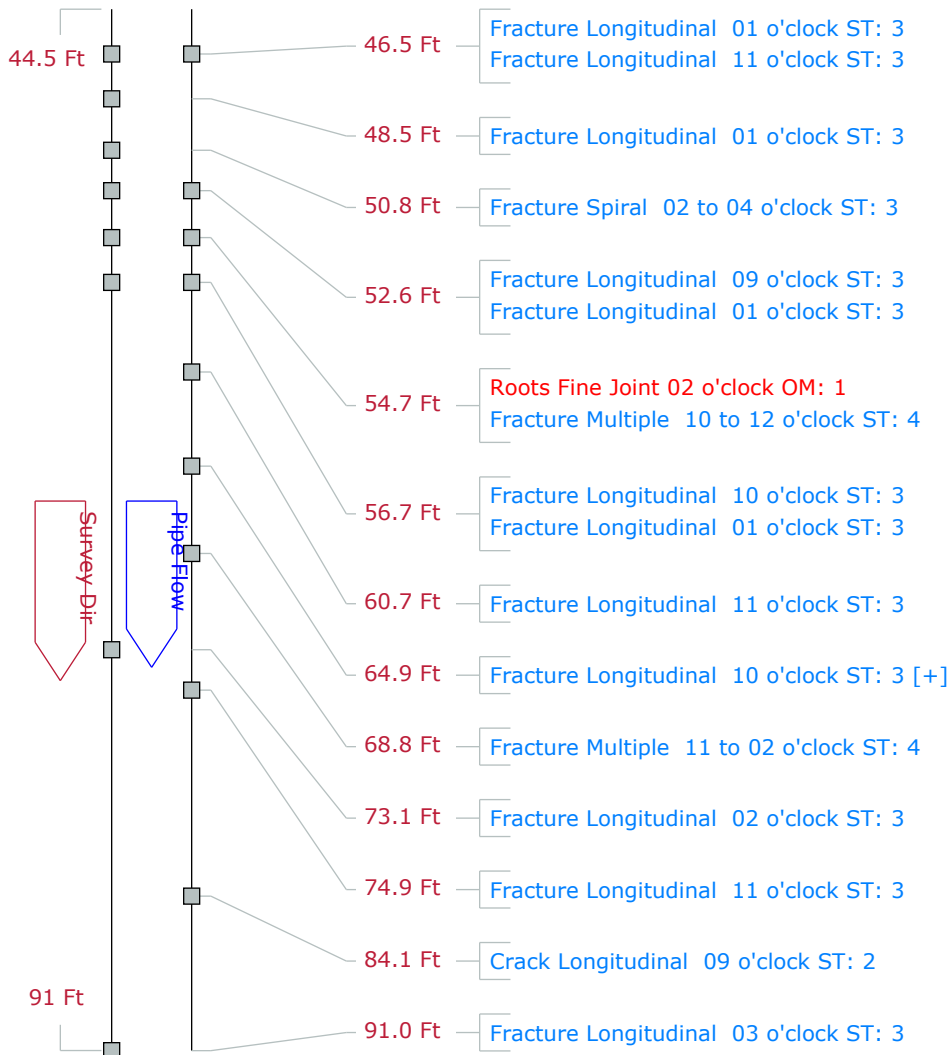
Setup	391	Surveyed By	AGS	Certificate #	U61406021126	Owner	
Reviewed By		Reviewer #		Work Order			
Customer				P/O #			
Media Label		Project	SANITARY				
Date	2021/05/24	Time	10:24	Weather	Dry - no Precipitation	Pre-Cleaning	H
Flow control		Survey Purpose				Date Cleaned	
Street	FAIRGROUNDS	City	HILLSDALE	Drainage area			
Location Code		Pipe Use	Sanitary Sewage Pipe				
Location details		Height	8	Width	ins		
Shape	Circular	Material	Vitrified Clay Pipe	Lining			
Coating		Pipe Joint length	Ft	Total length	232.1	Ft	Structural O & M
Length Surveyed	243.30	Year Constructed		Year Renewed			Miscellaneous Constructional
Additional info							
Up	2934	Rim to invert		Grade to invert		Rim to grade	Ft
Down	2933	Rim to invert		Grade to invert		Rim to grade	Ft



Pipe Graphic Report of PLR 4048

for Hillsdale

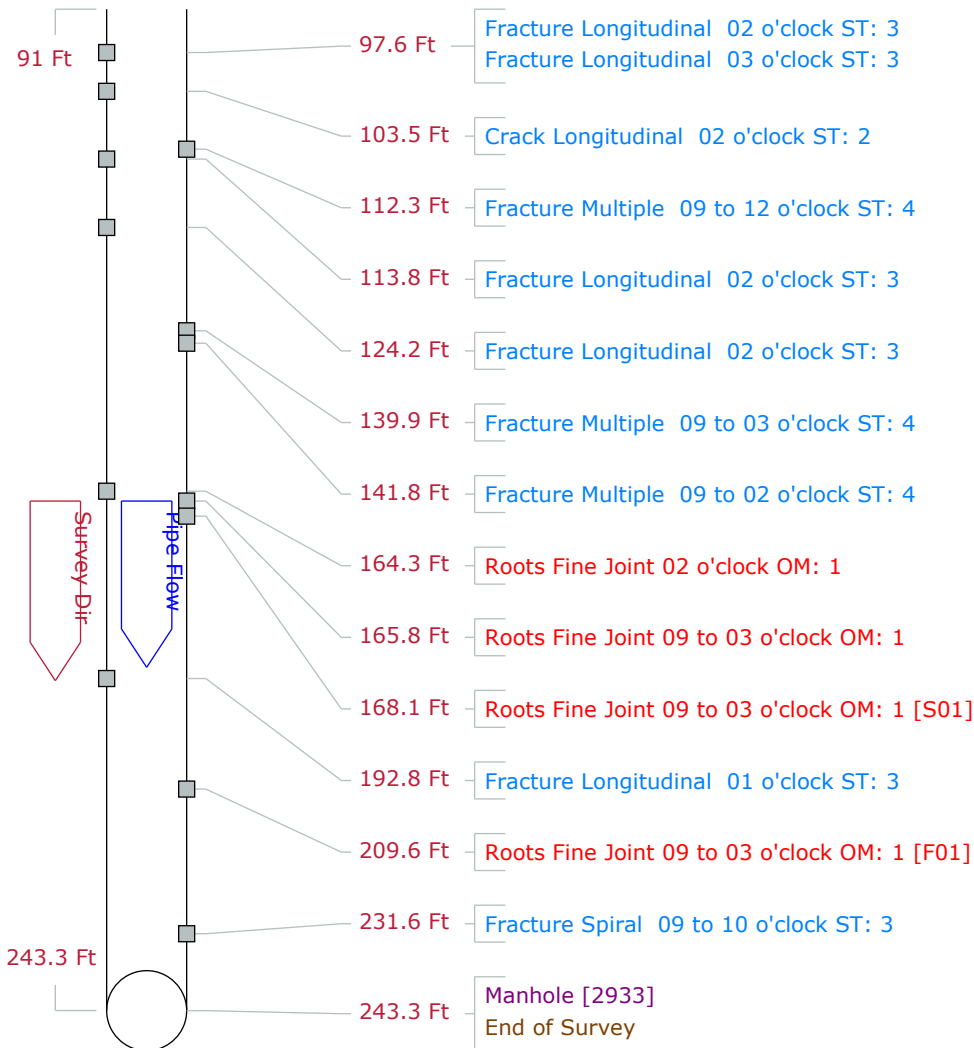
Setup	391	Surveyed By	AGS	Certificate #	U61406021126	Owner	
Reviewed By		Reviewer #		Work Order			
Customer				P/O #			
Media Label		Project	SANITARY				
Date	2021/05/24	Time	10:24	Weather	Dry - no Precipitation	Pre-Cleaning	H
Flow control		Survey Purpose				Date Cleaned	
Street	FAIRGROUNDS	City	HILLSDALE	Drainage area			
Location Code		Pipe Use	Sanitary Sewage Pipe				
Location details		Height	8	Width	ins		
Shape	Circular	Material	Vitrified Clay Pipe	Lining			
Coating		Pipe Joint length	Ft	Total length	232.1	Ft	Structural O & M
Length Surveyed	243.30	Year Constructed		Year Renewed			Miscellaneous Constructional
Additional info							
Up	2934	Rim to invert		Grade to invert		Rim to grade	Ft
Down	2933	Rim to invert		Grade to invert		Rim to grade	Ft



Pipe Graphic Report of PLR 4048

for Hillsdale

Setup	391	Surveyed By	AGS	Certificate #	U61406021126	Owner	
Reviewed By		Reviewer #		Work Order			
Customer				P/O #			
Media Label		Project	SANITARY				
Date	2021/05/24	Time	10:24	Weather	Dry - no Precipitation	Pre-Cleaning	H
Flow control		Survey Purpose				Date Cleaned	
Street	FAIRGROUNDS	City	HILLSDALE	Drainage area			
Location Code		Pipe Use	Sanitary Sewage Pipe				
Location details		Height	8	Width	ins		
Shape	Circular	Material	Vitrified Clay Pipe	Lining			
Coating		Pipe Joint length	Ft	Total length	232.1	Ft	Structural O & M
Length Surveyed	243.30	Year Constructed		Year Renewed			Miscellaneous Constructional
Additional info							
Up	2934	Rim to invert		Grade to invert		Rim to grade	Ft
Down	2933	Rim to invert		Grade to invert		Rim to grade	Ft



Tabular Report of PSR 4048
for Hillsdale

Setup 391	Surveyed By AGS	Certificate # U61406021126	Owner
Reviewed By	Reviewer #	Work Order	
Customer		P/O #	
Media Label	Project SANITARY		
Date 2021/05/24	Time 10:24	Weather Dry - no Precipitation	Pre-Cleaning H
Flow control	Survey Purpose		Date Cleaned
Inspection Status Complete Inspection	Consequence Of Failure	Pressure	Direction Down
Inspection Technology Used	<input type="checkbox"/> CCTV <input type="checkbox"/> Laser <input type="checkbox"/> Sonar <input type="checkbox"/> Sidewall <input type="checkbox"/> Zoom <input type="checkbox"/> Other		
Street FAIRGROUNDS	City HILLSDALE	Drainage area	
Location Code		Pipe Use Sanitary Sewage Pipe	
Location details		Height 8	Width ins
Shape Circular	Material Vitrified Clay Pipe	Lining	
Coating	Pipe Joint length	Ft	Total length 232.1 Ft
Length Surveyed 243.3 Ft	Year Constructed		Year Renewed
Up 2934	Rim to invert	Grade to invert	Rim to grade Ft
Northing	Easting	Elevation	
Down 2933	Rim to invert	Grade to invert	Rim to grade Ft
Northing	Easting	Elevation	
Coordinate System		Vertical Datum	
GPS Accuracy		Structural	O & M
Additional info		Miscellaneous	Constructional

Count	Video	CD	Code	Val1	Val2	%	Jnt	Fr	To	Im	Ref	Remarks
0.0			ST Start of Survey									
0.0			MWL Miscellaneous Water Level			10.000						
0.0			AMH Manhole									2934
7.8			RFJ Roots Fine Joint				J	09	03			
8.2			FS Fracture Spiral				J	10	02			
26.6			FL Fracture Longitudinal				J	01				
28.4			FL Fracture Longitudinal				J	11				
29.5			FM Fracture Multiple				J	09	02			
29.9			HSV Hole Soil Visible				J	12	03			
34.7			FL Fracture Longitudinal				J	10				
36.4			FM Fracture Multiple				J	09	03			
38.3			FS Fracture Spiral				J	12	02			
40.3			RFJ Roots Fine Joint				J	10				
40.6			FL Fracture Longitudinal				J	02				
40.6			FL Fracture Longitudinal				J	12				
44.5			FL Fracture Longitudinal				J	12				
44.5			FL Fracture Longitudinal				J	10				
46.5			FL Fracture Longitudinal				J	01				
46.5			FL Fracture Longitudinal				J	11				
48.5			FL Fracture Longitudinal				J	01				
50.8			FS Fracture Spiral				J	02	04			
52.6			FL Fracture Longitudinal				J	09				
52.6			FL Fracture Longitudinal				J	01				

Tabular Report of PSR 4048
for Hillsdale

Setup	391	Date	2021/05/24	Time	10:24	Up	2934	Down	2933			
Count	Video	CD	Code		Val1	Val2	%	Jnt	Fr	To	ImRef	Remarks
54.7			RFJ	Roots Fine Joint				J	02			
54.7			FM	Fracture Multiple				J	10	12		
56.7			FL	Fracture Longitudinal				J	10			
56.7			FL	Fracture Longitudinal				J	01			
60.7			FL	Fracture Longitudinal				J	11			
64.9			FL	Fracture Longitudinal				J	10			+
68.8			FM	Fracture Multiple				J	11	02		
73.1			FL	Fracture Longitudinal				J	02			
74.9			FL	Fracture Longitudinal				J	11			
84.1			CL	Crack Longitudinal				J	09			
91.0			FL	Fracture Longitudinal				J	03			
97.6			FL	Fracture Longitudinal				J	02			
97.6			FL	Fracture Longitudinal				J	03			
103.5			CL	Crack Longitudinal				J	02			
112.3			FM	Fracture Multiple				J	09	12		
113.8			FL	Fracture Longitudinal				J	02			
124.2			FL	Fracture Longitudinal				J	02			
139.9			FM	Fracture Multiple				J	09	03		
141.8			FM	Fracture Multiple				J	09	02		
164.3			RFJ	Roots Fine Joint				J	02			
165.8			RFJ	Roots Fine Joint				J	09	03		
168.1		S01	RFJ	Roots Fine Joint				J	09	03		
192.8			FL	Fracture Longitudinal				J	01			
209.6		F01	RFJ	Roots Fine Joint				J	09	03		
231.6			FS	Fracture Spiral				J	09	10		
243.3			AMH	Manhole								2933
243.3			FH	End of Survey								

243.3 Ft Total Length Surveyed

Scores	Structural:	Pipe Rating	121	Pipe Ratings Index	3.2	Quick Rating	5147
	O&M:	Pipe Rating	13	Pipe Ratings Index	1	Quick Rating	1A00
	Overall	Pipe Rating	134	Pipe Ratings Index	2.6	Quick Rating	5147

Counter:29.9

Code:HSV

Percent:

From:12

To:03

Remarks:

23:03

05.05.15

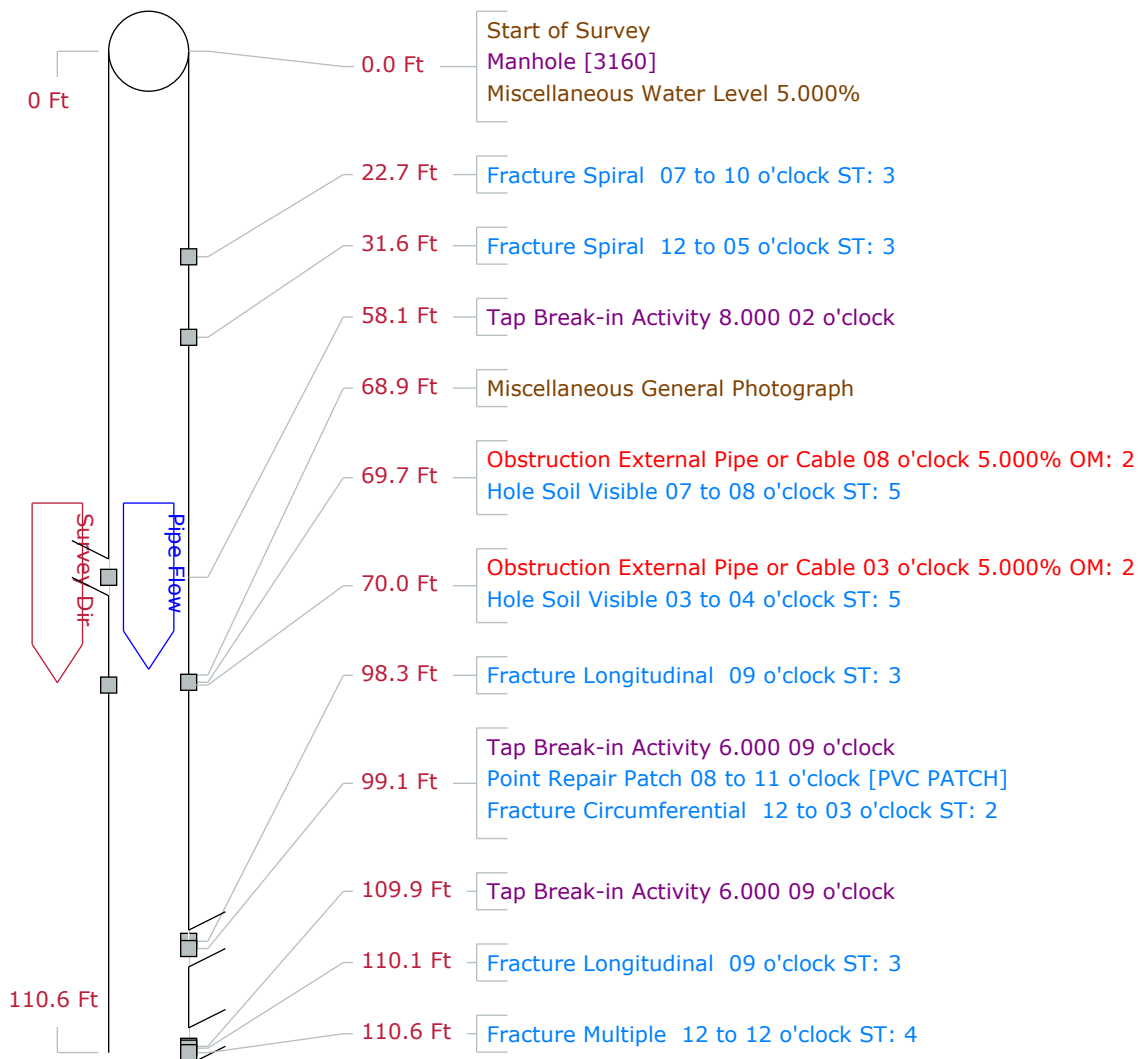
LC1: 029.90 ft

Goodrich - Lining - MH3160 to 3131

Pipe Graphic Report of PLR 3790

for Hillsdale

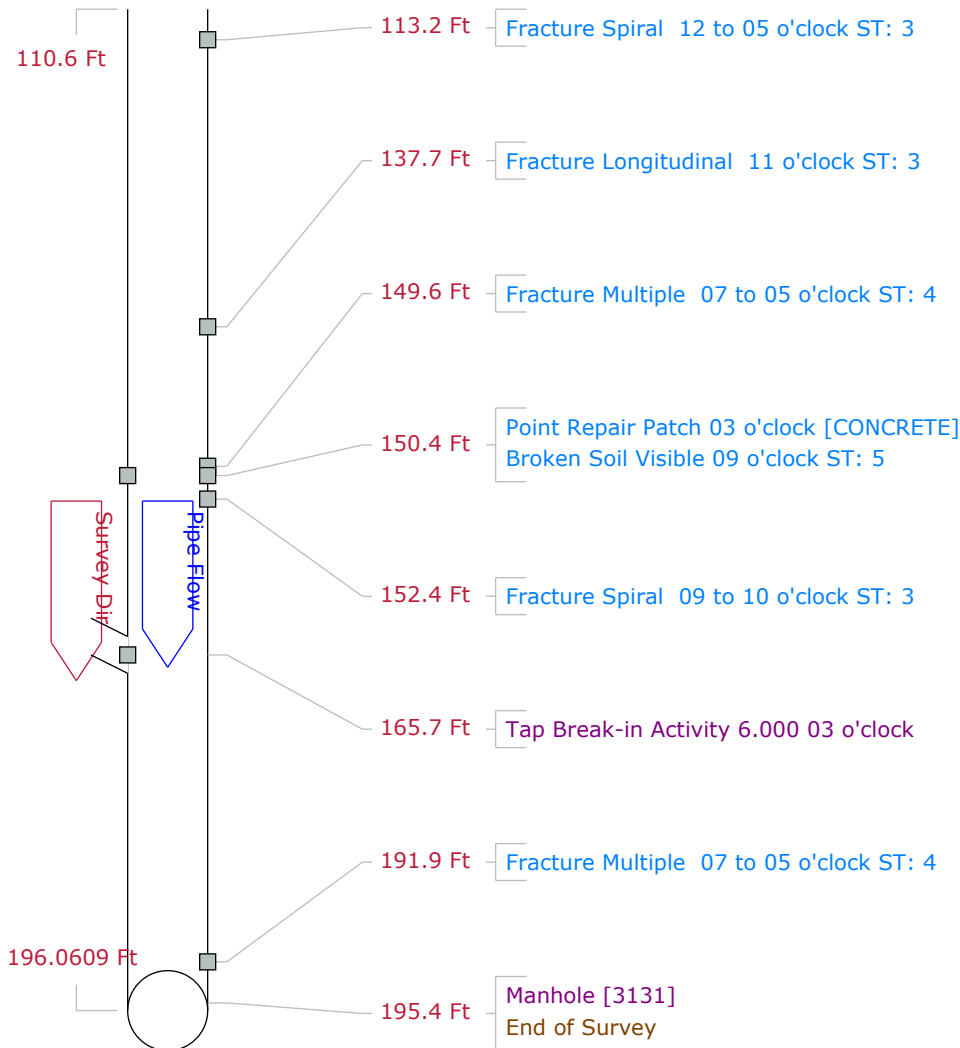
Setup	41	Surveyed By	AGS	Certificate #	U61406021126	Owner	
Reviewed By		Reviewer #		Work Order			
Customer				P/O #			
Media Label		Project	SANITARY				
Date	2021/04/08	Time	14:49	Weather	Light Rain	Pre-Cleaning	N
Flow control		Survey Purpose				Date Cleaned	
Street	GOODRICH AVE	City	HILLSDALE	Drainage area			
Location Code		Pipe Use	Sanitary Sewage Pipe				
Location details		Height	8	Width	ins		
Shape	Circular	Material	Vitrified Clay Pipe	Lining			
Coating		Pipe Joint length	Ft	Total length	196.1	Ft	<div>Structural</div> <div>O & M</div>
Length Surveyed	195.40	Year Constructed		Year Renewed			<div>Miscellaneous</div> <div>Constructional</div>
Additional info							
Up	3160	Rim to invert		Grade to invert		Rim to grade	Ft
Down	3131	Rim to invert		Grade to invert		Rim to grade	Ft



Pipe Graphic Report of PLR 3790

for Hillsdale

Setup	41	Surveyed By	AGS	Certificate #	U61406021126	Owner	
Reviewed By		Reviewer #		Work Order			
Customer				P/O #			
Media Label		Project	SANITARY				
Date	2021/04/08	Time	14:49	Weather	Light Rain	Pre-Cleaning	N
Flow control		Survey Purpose				Date Cleaned	
Street	GOODRICH AVE	City	HILLSDALE	Drainage area			
Location Code		Pipe Use	Sanitary Sewage Pipe				
Location details		Height	8	Width	ins		
Shape	Circular	Material	Vitrified Clay Pipe	Lining			
Coating		Pipe Joint length	Ft	Total length	196.1	Ft	Structural O & M
Length Surveyed	195.40	Year Constructed		Year Renewed			Miscellaneous Constructional
Additional info							
Up	3160	Rim to invert		Grade to invert		Rim to grade	Ft
Down	3131	Rim to invert		Grade to invert		Rim to grade	Ft



Tabular Report of PSR 3790
for Hillsdale

Setup 41	Surveyed By AGS	Certificate # U61406021126	Owner
Reviewed By	Reviewer #	Work Order	
Customer		P/O #	
Media Label	Project SANITARY		
Date 2021/04/08	Time 14:49	Weather Light Rain	Pre-Cleaning N
Flow control	Survey Purpose		Date Cleaned
Inspection Status Complete Inspection	Consequence Of Failure	Pressure	Direction Down
Inspection Technology Used	<input type="checkbox"/> CCTV <input type="checkbox"/> Laser <input type="checkbox"/> Sonar <input type="checkbox"/> Sidewall <input type="checkbox"/> Zoom <input type="checkbox"/> Other		
Street GOODRICH AVE	City HILLSDALE	Drainage area	
Location Code		Pipe Use Sanitary Sewage Pipe	
Location details		Height 8	Width ins
Shape Circular	Material Vitrified Clay Pipe	Lining	
Coating	Pipe Joint length	Ft	Total length 196.1 Ft
Length Surveyed 195.4 Ft	Year Constructed		Year Renewed
Up 3160	Rim to invert	Grade to invert	Rim to grade Ft
Northing	Easting	Elevation	
Down 3131	Rim to invert	Grade to invert	Rim to grade Ft
Northing	Easting	Elevation	
Coordinate System		Vertical Datum	
GPS Accuracy		Structural	O & M
Additional info		Miscellaneous	Constructional

Count	Video	CD	Code	Val1	Val2	%	Jnt	Fr	To	Im	Ref	Remarks
0.0			ST Start of Survey									
0.0			AMH Manhole									3160
0.0			MWL Miscellaneous Water Level			5.000						
22.7			FS Fracture Spiral				J	07	10			
31.6			FS Fracture Spiral				J	12	05			
58.1			TBA Tap Break-in Activity	8.000				02				
68.9			MGP Miscellaneous General Photograph									
69.7			OBP Obstruction External Pipe or Cable			5.000		08				
69.7			HSV Hole Soil Visible					07	08			
70.0			OBP Obstruction External Pipe or Cable			5.000		03				
70.0			HSV Hole Soil Visible					03	04			
98.3			FL Fracture Longitudinal				J	09				
99.1			TBA Tap Break-in Activity	6.000				09				
99.1			RPP Point Repair Patch					08	11			PVC PATCH
99.1			FC Fracture Circumferential				J	12	03			
109.9			TBA Tap Break-in Activity	6.000				09				
110.1			FL Fracture Longitudinal				J	09				
110.6			FM Fracture Multiple				J	12	12			
113.2			FS Fracture Spiral				J	12	05			
137.7			FL Fracture Longitudinal				J	11				
149.6			FM Fracture Multiple				J	07	05			
150.4			RPP Point Repair Patch					03				CONCRETE
150.4			BSV Broken Soil Visible					09				

Tabular Report of PSR 3790

for Hillsdale

Setup	41	Date	2021/04/08		Time	14:49		Up	3160				Down	3131			
Count	Video	CD	Code			Val1	Val2	%	Jnt	Fr	To	ImRef	Remarks				
152.4			FS	Fracture Spiral						J	09	10					
165.7			TBA	Tap Break-in Activity			6.000				03						
191.9			FM	Fracture Multiple						J	07	05					
195.4			AMH	Manhole										3131			
195.4			FH	End of Survey													

195.4 Ft Total Length Surveyed

Scores	Structural:	Pipe Rating	50	Pipe Ratings Index	3.6	Quick Rating	5343
	O&M:	Pipe Rating	4	Pipe Ratings Index	2	Quick Rating	2200
	Overall	Pipe Rating	54	Pipe Ratings Index	3.4	Quick Rating	5343

Counter:68.9

Code:MGP

Percent:

From:

To:



04:26

05.06.94

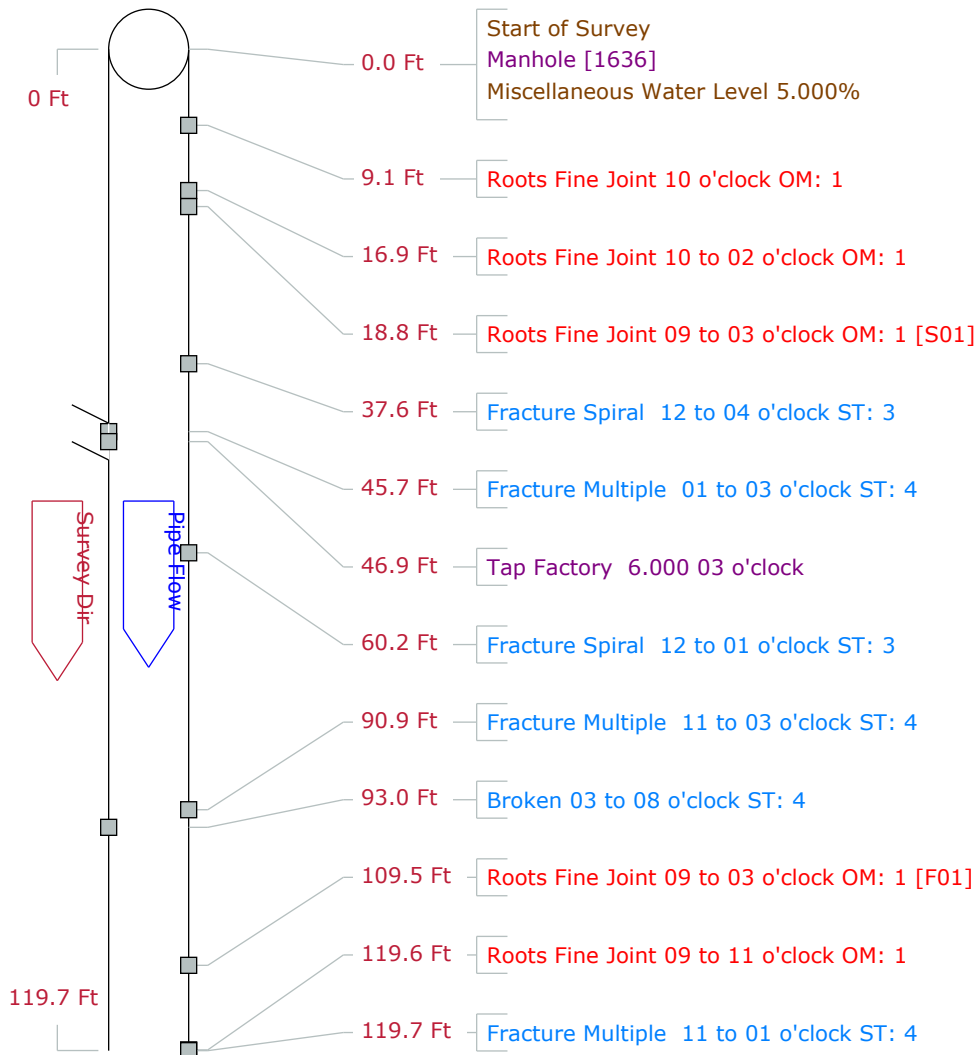
LC1: 068.90 ft

E. South St. - Lining - MH1636 to 2546

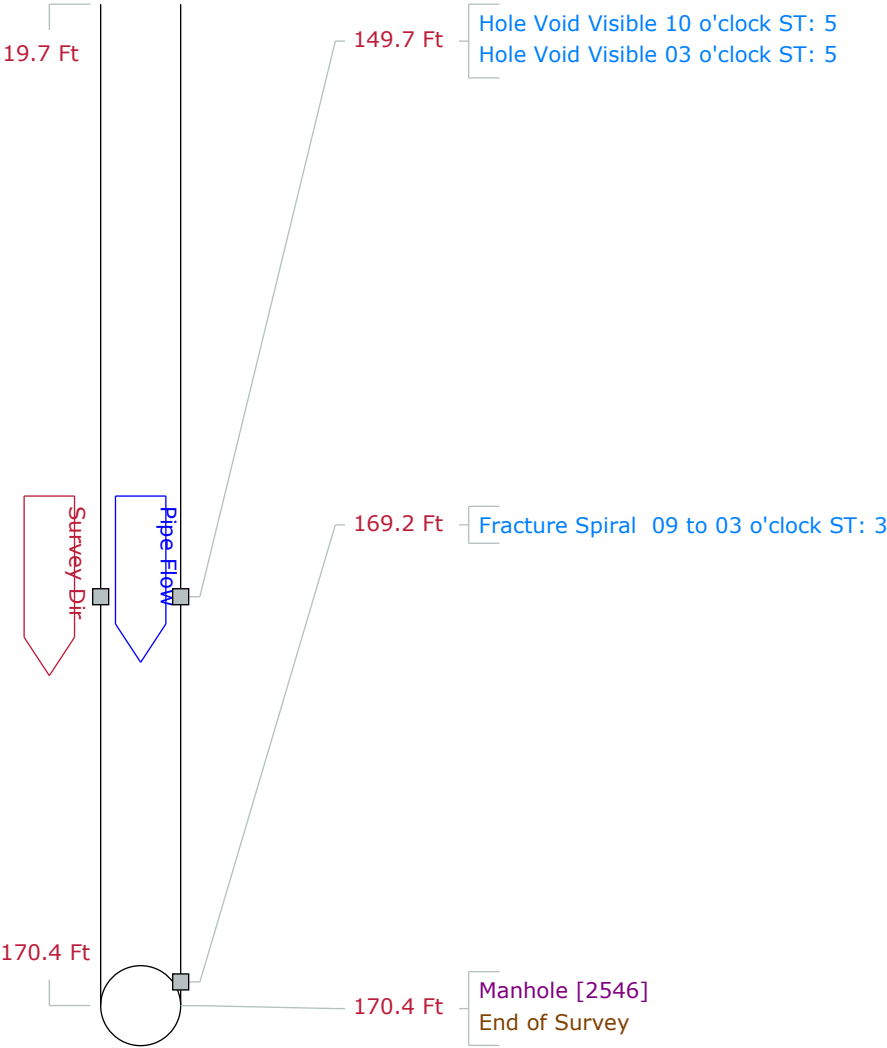
Pipe Graphic Report of PLR 4000

for Hillsdale

Setup	279	Surveyed By	AGS	Certificate #	U61406021126	Owner	
Reviewed By		Reviewer #		Work Order			
Customer				P/O #			
Media Label		Project	SANITARY				
Date	2021/05/07	Time	10:02	Weather	Dry - no Precipitation	Pre-Cleaning	L
Flow control		Survey Purpose				Direction	Downstream
Street	SOUTH ST	City	HILLSDALE	Drainage area			
Location Code		Pipe Use	Sanitary Sewage Pipe				
Location details		Height	6	Width	ins		
Shape	Circular	Material	Vitrified Clay Pipe	Lining			
Coating		Pipe Joint length	Ft	Total length	169.4	Ft	<div>Structural</div> <div>O & M</div>
Length Surveyed	170.40	Year Constructed		Year Renewed			<div>Miscellaneous</div> <div>Constructional</div>
Additional info							
Up	1636	Rim to invert		Grade to invert		Rim to grade	Ft
Down	2546	Rim to invert		Grade to invert		Rim to grade	Ft



Pipe Graphic Report of PLR 4000				for Hillsdale			
Setup	279	Surveyed By	AGS	Certificate #	U61406021126	Owner	
Reviewed By		Reviewer #		Work Order		P/O #	
Customer		Project		SANITARY			
Media Label							
Date	2021/05/07	Time	10:02	Weather	Dry - no Precipitation	Pre-Cleaning	L
Flow control		Survey Purpose				Direction	
						Downstream	
Street	SOUTH ST			City	HILLSDALE		Drainage area
Location Code				Pipe Use		Sanitary Sewage Pipe	
Location details				Height		6	Width
						ins	
Shape	Circular			Material	Vitrified Clay Pipe		Lining
Coating				Pipe Joint length	Ft	Total length	169.4
Length Surveyed		170.40	Ft	Year Constructed	Year Renewed		
Additional info							
Up	1636			Rim to invert	Grade to invert		Rim to grade
Down	2546			Rim to invert	Grade to invert		Rim to grade



Tabular Report of PSR 4000

for Hillsdale

Setup 279	Surveyed By AGS	Certificate # U61406021126	Owner
Reviewed By	Reviewer #	Work Order	
Customer		P/O #	
Media Label	Project SANITARY		
Date 2021/05/07	Time 10:02	Weather Dry - no Precipitation	Pre-Cleaning L
Flow control	Survey Purpose		Date Cleaned
Inspection Status Complete Inspection	Consequence Of Failure	Pressure	Direction Down
Inspection Technology Used	<input type="checkbox"/> CCTV <input type="checkbox"/> Laser <input type="checkbox"/> Sonar <input type="checkbox"/> Sidewall <input type="checkbox"/> Zoom <input type="checkbox"/> Other		
Street SOUTH ST	City HILLSDALE	Drainage area	
Location Code		Pipe Use Sanitary Sewage Pipe	
Location details		Height 6	Width ins
Shape Circular	Material Vitrified Clay Pipe	Lining	
Coating	Pipe Joint length	Ft	Total length 169.4 Ft
Length Surveyed 170.4 Ft	Year Constructed		Year Renewed
Up 1636	Rim to invert	Grade to invert	Rim to grade Ft
Northing	Easting	Elevation	
Down 2546	Rim to invert	Grade to invert	Rim to grade Ft
Northing	Easting	Elevation	
Coordinate System		Vertical Datum	
GPS Accuracy		Structural	O & M
Additional info		Miscellaneous	Constructional

Count	Video	CD Code	Val1	Val2	%	Jnt	Fr	To	ImRef	Remarks
0.0		ST	Start of Survey							
0.0		AMH	Manhole							1636
0.0		MWL	Miscellaneous Water Level		5.000					
9.1		RFJ	Roots Fine Joint			J	10			
16.9		RFJ	Roots Fine Joint			J	10	02		
18.8	S01	RFJ	Roots Fine Joint			J	09	03		
37.6		FS	Fracture Spiral			J	12	04		
45.7		FM	Fracture Multiple			J	01	03		
46.9		TF	Tap Factory	6.000			03			
60.2		FS	Fracture Spiral			J	12	01		
90.9		FM	Fracture Multiple			J	11	03		
93.0		B	Broken			J	03	08		
109.5	F01	RFJ	Roots Fine Joint			J	09	03		
119.6		RFJ	Roots Fine Joint			J	09	11		
119.7		FM	Fracture Multiple			J	11	01		
149.7		HVV	Hole Void Visible				10			
149.7		HVV	Hole Void Visible				03			
169.2		FS	Fracture Spiral			J	09	03		
170.4		AMH	Manhole							2546
170.4		FH	End of Survey							

170.4 Ft Total Length Surveyed

Tabular Report of PSR 4000**for Hillsdale**

Setup	279	Date	2021/05/07	Time	10:02	Up	1636	Down	2546
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Scores

Structural:	Pipe Rating	35	Pipe Ratings Index	3.9	Quick Rating	5244
O&M:	Pipe Rating	21	Pipe Ratings Index	1	Quick Rating	1C00
Overall	Pipe Rating	56	Pipe Ratings Index	1.9	Quick Rating	5244

City:HILLSDALE Street:SOUTH ST
From MH:1686 Dir:D To MH:2546
Mat:VCP Size:ins

03:06

01.01.80

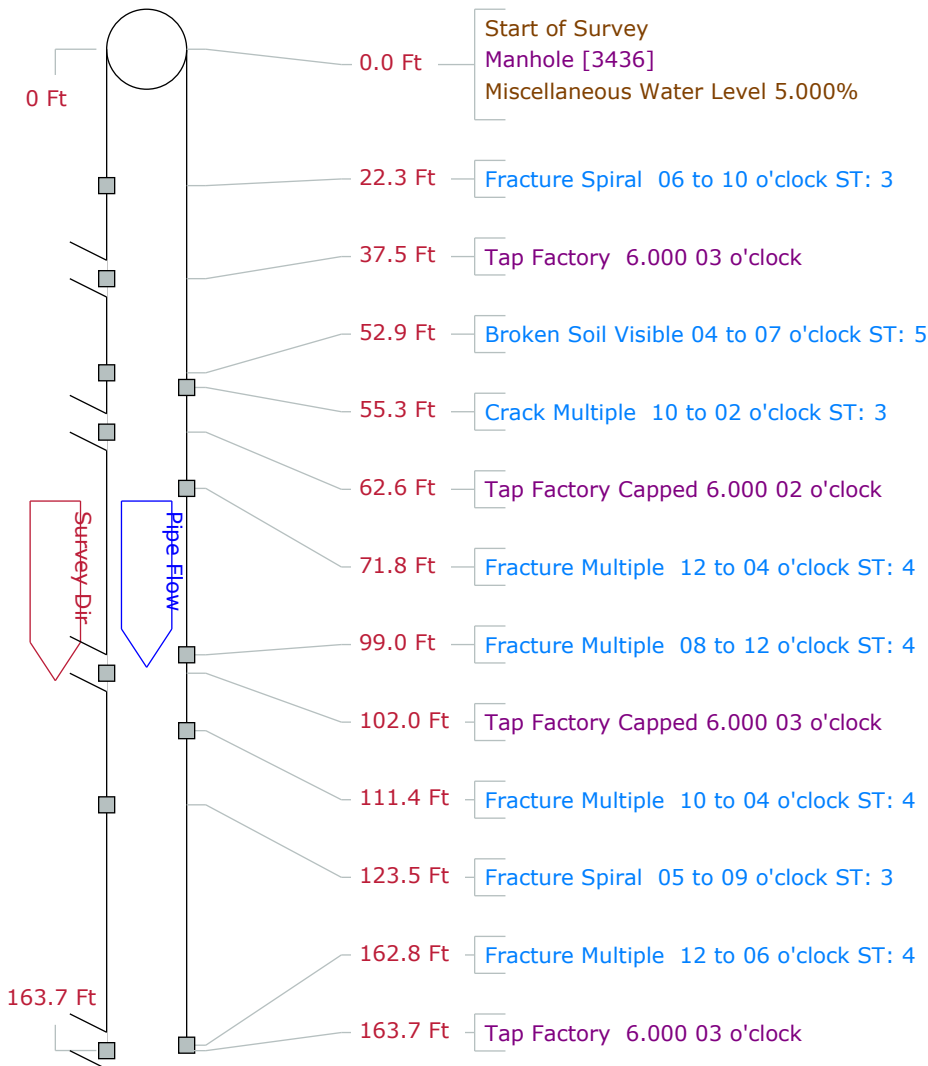
LC1: 148.20 ft

W. South St. - Lining - MH3436 to 2507

Pipe Graphic Report of PLR 3835

for Hillsdale

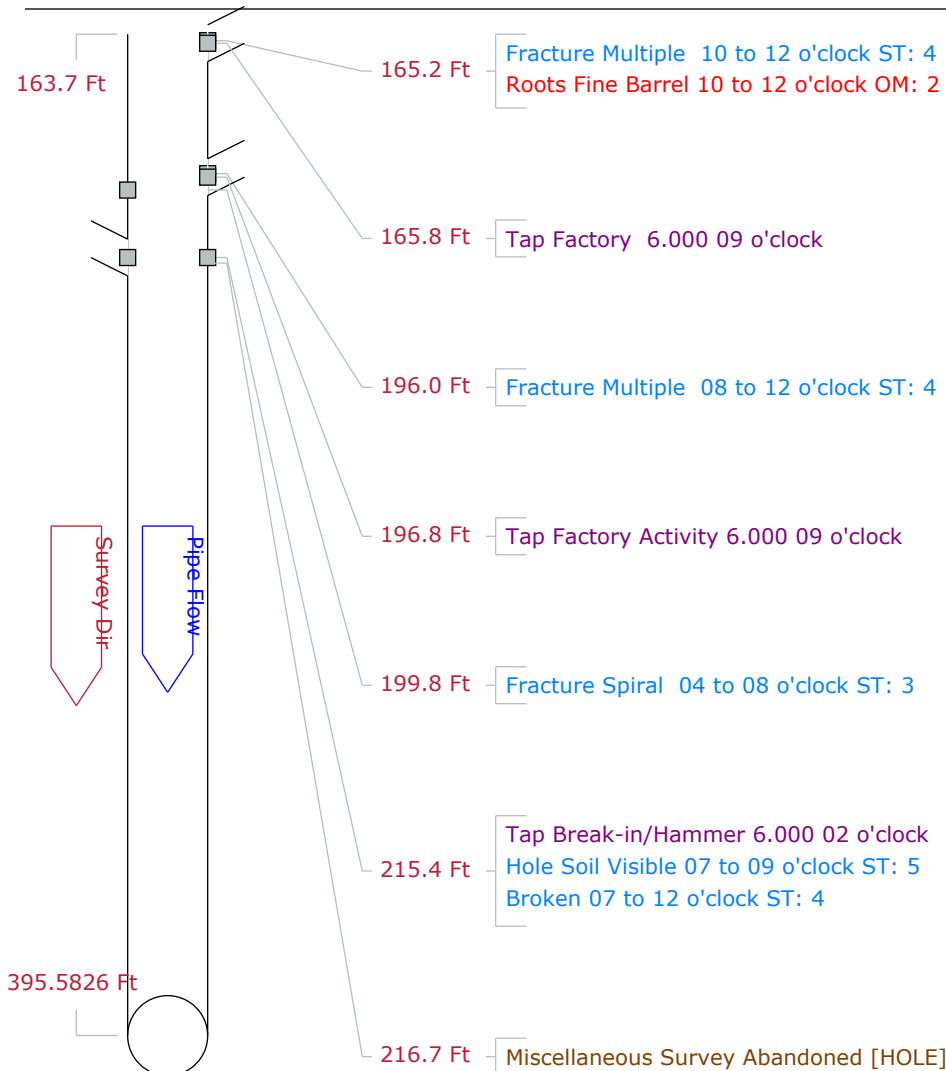
Setup	870/8	Surveyed By	AGS	Certificate #	U61406021126	Owner	
Reviewed By		Reviewer #		Work Order			
Customer				P/O #			
Media Label		Project	SANITARY				
Date	2021/07/15	Time	16:28	Weather	Dry - no Precipitation	Pre-Cleaning	N
Flow control		Survey Purpose				Date Cleaned	
Street	SOUTH ST	City	HILLSDALE	Drainage area			
Location Code		Pipe Use	Sanitary Sewage Pipe				
Location details		Height	6	Width	ins		
Shape	Circular	Material	Vitrified Clay Pipe	Lining			
Coating		Pipe Joint length	Ft	Total length	395.6	Ft	Structural O & M
Length Surveyed	216.70	Year Constructed		Year Renewed			Miscellaneous Constructional
Additional info							
Up	3436	Rim to invert		Grade to invert		Rim to grade	Ft
Down	2507	Rim to invert		Grade to invert		Rim to grade	Ft



Pipe Graphic Report of PLR 3835

for Hillsdale

Setup	870/8	Surveyed By	AGS	Certificate #	U61406021126	Owner	
Reviewed By		Reviewer #		Work Order			
Customer				P/O #			
Media Label		Project	SANITARY				
Date	2021/07/15	Time	16:28	Weather	Dry - no Precipitation	Pre-Cleaning	N
Flow control		Survey Purpose				Date Cleaned	
Street	SOUTH ST	City	HILLSDALE	Drainage area			
Location Code		Pipe Use	Sanitary Sewage Pipe				
Location details		Height	6	Width	ins		
Shape	Circular	Material	Vitrified Clay Pipe	Lining			
Coating		Pipe Joint length	Ft	Total length	395.6	Ft	Structural O & M
Length Surveyed	216.70	Year Constructed		Year Renewed			Miscellaneous Constructional
Additional info							
Up	3436	Rim to invert		Grade to invert		Rim to grade	Ft
Down	2507	Rim to invert		Grade to invert		Rim to grade	Ft



Tabular Report of PSR 3835
for Hillsdale

Setup 870	Surveyed By AGS	Certificate # U61406021126	Owner
Reviewed By	Reviewer #	Work Order	
Customer		P/O #	
Media Label	Project SANITARY		
Date 2021/07/15	Time 16:28	Weather Dry - no Precipitation	Pre-Cleaning N
Flow control	Survey Purpose		Date Cleaned
Inspection Status Complete Inspection	Consequence Of Failure	Pressure	
Inspection Technology Used	<input type="checkbox"/> CCTV <input type="checkbox"/> Laser <input type="checkbox"/> Sonar <input type="checkbox"/> Sidewall <input type="checkbox"/> Zoom <input type="checkbox"/> Other		
Street SOUTH ST	City HILLSDALE	Drainage area	
Location Code		Pipe Use Sanitary Sewage Pipe	
Location details		Height 6	Width ins
Shape Circular	Material Vitrified Clay Pipe	Lining	
Coating	Pipe Joint length Ft	Total length 395.6	Ft
Length Surveyed 216.7 Ft	Year Constructed	Year Renewed	
Up 3436	Rim to invert	Grade to invert	Rim to grade Ft
Northing	Easting	Elevation	
Down 2507	Rim to invert	Grade to invert	Rim to grade Ft
Northing	Easting	Elevation	
Coordinate System	Vertical Datum		
GPS Accuracy	<div> Structural O & M </div>		
Additional info	<div> Miscellaneous Constructional </div>		

Count	Video	CD	Code	Val1	Val2	%	Jnt	Fr	To	Im	Ref	Remarks
0.0			ST Start of Survey									
0.0			AMH Manhole									3436
0.0			MWL Miscellaneous Water Level			5.000						
22.3			FS Fracture Spiral				J	06	10			
37.5			TF Tap Factory	6.000				03				
52.9			BSV Broken Soil Visible				J	04	07			
55.3			CM Crack Multiple				J	10	02			
62.6			TFC Tap Factory Capped	6.000				02				
71.8			FM Fracture Multiple				J	12	04			
99.0			FM Fracture Multiple				J	08	12			
102.0			TFC Tap Factory Capped	6.000				03				
111.4			FM Fracture Multiple				J	10	04			
123.5			FS Fracture Spiral				J	05	09			
162.8			FM Fracture Multiple				J	12	06			
163.7			TF Tap Factory	6.000				03				
165.2			FM Fracture Multiple				J	10	12			
165.2			RFB Roots Fine Barrel					10	12			
165.8			TF Tap Factory	6.000				09				
196.0			FM Fracture Multiple				J	08	12			
196.8			TFA Tap Factory Activity	6.000				09				
199.8			FS Fracture Spiral				J	04	08			
215.4			TB Tap Break-in/Hammer	6.000				02				
215.4			HSV Hole Soil Visible					07	09			

Tabular Report of PSR 3835

for Hillsdale

Setup 870 Date 2021/07/15 Time 16:28 Up 3436 Down 2507

Count	Video	CD	Code	Val1	Val2	%	Jnt	Fr	To	ImRef	Remarks
215.4			B Broken					07	12		
216.7			MSA Miscellaneous Survey Abandoned								HOLE

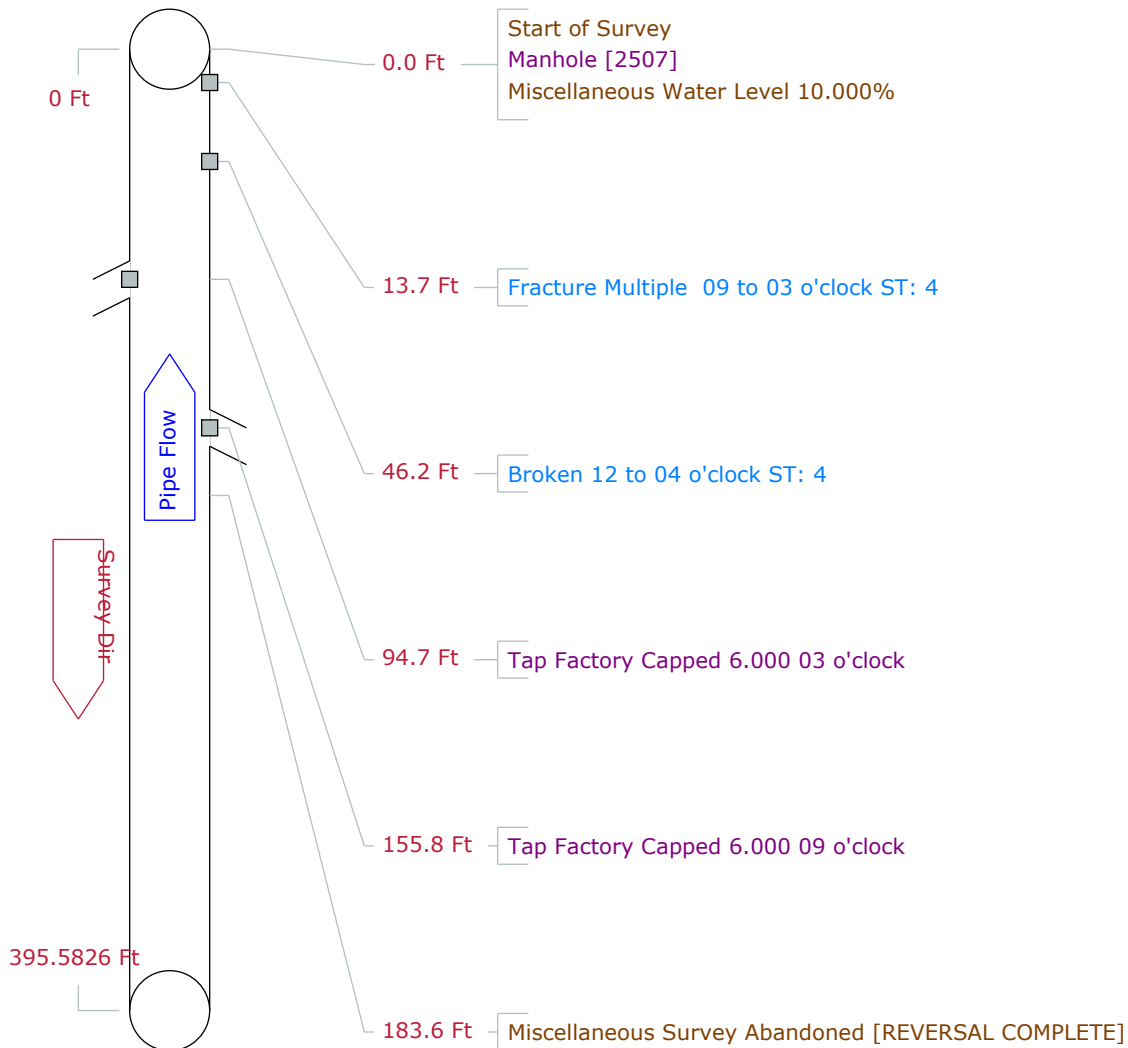
216.7 Ft Total Length Surveyed

Scores	Structural:	Pipe Rating	50	Pipe Ratings Index	3.8	Quick Rating	5247
	O&M:	Pipe Rating	2	Pipe Ratings Index	2	Quick Rating	2100
	Overall	Pipe Rating	52	Pipe Ratings Index	3.7	Quick Rating	5247

Pipe Graphic Report of PLR 3835

for Hillsdale

Setup	871/8	Surveyed By	AGS	Certificate #	U61406021126	Owner	
Reviewed By		Reviewer #		Work Order			
Customer				P/O #			
Media Label		Project	SANITARY				
Date	2021/07/15	Time	17:44	Weather	Dry - no Precipitation	Pre-Cleaning	N
Flow control		Survey Purpose				Date Cleaned	
Street	SOUTH ST	City	HILLSDALE	Drainage area			
Location Code		Pipe Use	Sanitary Sewage Pipe				
Location details		Height	6	Width	ins		
Shape	Circular	Material	Vitrified Clay Pipe	Lining			
Coating		Pipe Joint length	Ft	Total length	395.6	Ft	Structural O & M
Length Surveyed	183.60 Ft	Year Constructed		Year Renewed			Miscellaneous Constructional
Additional info	Reverse set up on sheet:834						
Up	3436	Rim to invert		Grade to invert		Rim to grade	Ft
Down	2507	Rim to invert		Grade to invert		Rim to grade	Ft



Tabular Report of PSR 3835
for Hillsdale

Setup 871	Surveyed By AGS	Certificate # U61406021126	Owner
Reviewed By	Reviewer #	Work Order	
Customer		P/O #	
Media Label	Project SANITARY		
Date 2021/07/15	Time 17:44	Weather Dry - no Precipitation	Pre-Cleaning N
Flow control	Survey Purpose		Date Cleaned
Inspection Status Complete Inspection	Consequence Of Failure	Pressure	
Inspection Technology Used	<input type="checkbox"/> CCTV <input type="checkbox"/> Laser <input type="checkbox"/> Sonar <input type="checkbox"/> Sidewall <input type="checkbox"/> Zoom <input type="checkbox"/> Other		
Street SOUTH ST	City HILLSDALE	Drainage area	
Location Code		Pipe Use	Sanitary Sewage Pipe
Location details		Height 6	Width ins
Shape Circular	Material Vitrified Clay Pipe	Lining	
Coating	Pipe Joint length Ft	Total length 395.6	Ft
Length Surveyed 183.6 Ft	Year Constructed	Year Renewed	
Up 3436	Rim to invert	Grade to invert	Rim to grade Ft
Northing	Easting	Elevation	
Down 2507	Rim to invert	Grade to invert	Rim to grade Ft
Northing	Easting	Elevation	
Coordinate System	Vertical Datum		
GPS Accuracy	<div> Structural O & M Miscellaneous Constructional </div>		
Additional info	Reverse set up on sheet:834		

Count	Video	CD	Code	Val1	Val2	%	Jnt	Fr	To	Im	Ref	Remarks
0.0			ST Start of Survey									
0.0			AMH Manhole									2507
0.0			MWL Miscellaneous Water Level			10.000						
13.7			FM Fracture Multiple				J	09	03			
46.2			B Broken				J	12	04			
94.7			TFC Tap Factory Capped	6.000				03				
155.8			TFC Tap Factory Capped	6.000				09				
183.6			MSA Miscellaneous Survey Abandoned									REVERSAL COMPLETE

183.6 Ft Total Length Surveyed

Scores	Structural:	Pipe Rating 8	Pipe Ratings Index 4	Quick Rating 4200
	O&M:	Pipe Rating 0	Pipe Ratings Index 0	Quick Rating 0000
	Overall	Pipe Rating 8	Pipe Ratings Index 4.0	Quick Rating 4200

City:HILLSDALE Street:SOUTH ST
From MH:3436 Dir:D To MH:2507
Mat:VCP Size:ins



04.21

13.10.70

LC1: 052.70 ft

Counter:215.4

Code:B

Percent:

02:23

13.10.70

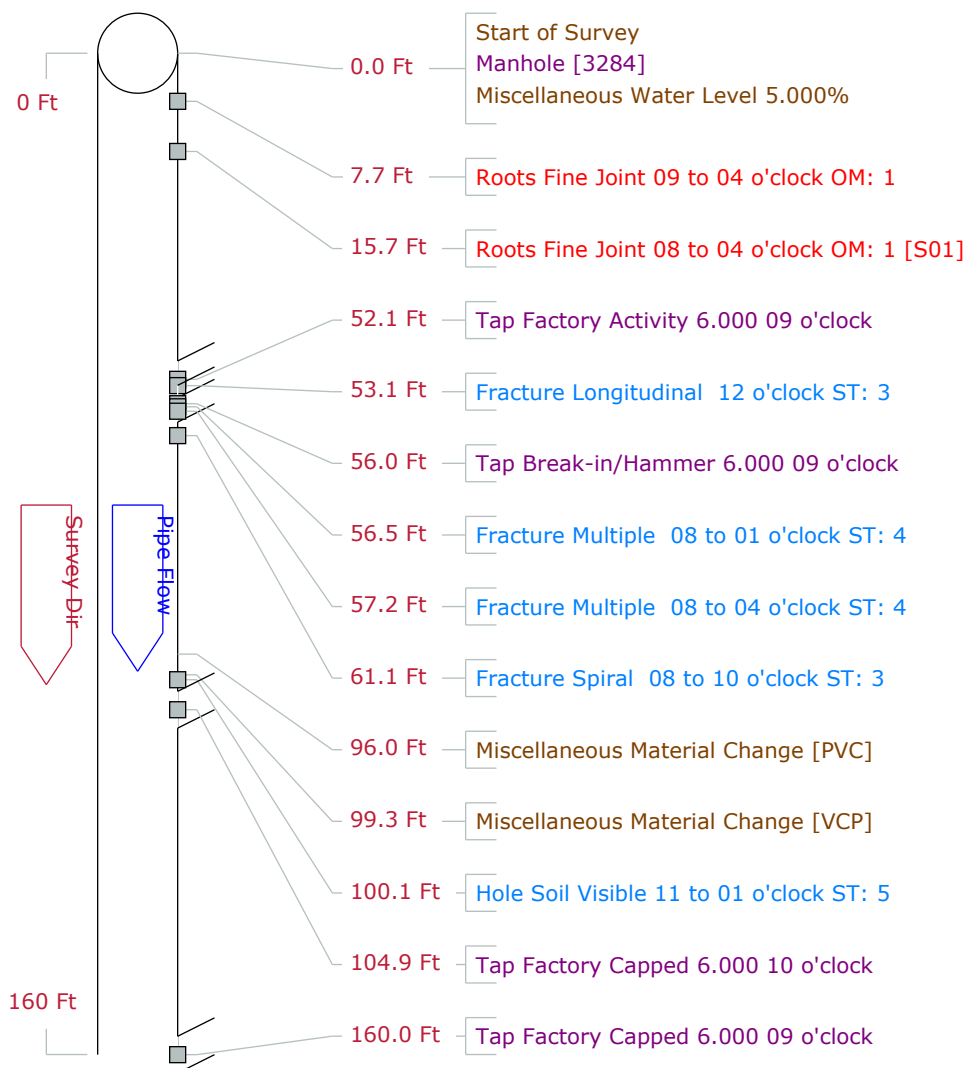
LC1: 215.40 ft

W. St. Joe St. - Lining - MH3284 to 3283

Pipe Graphic Report of PLR 4279

for Hillsdale

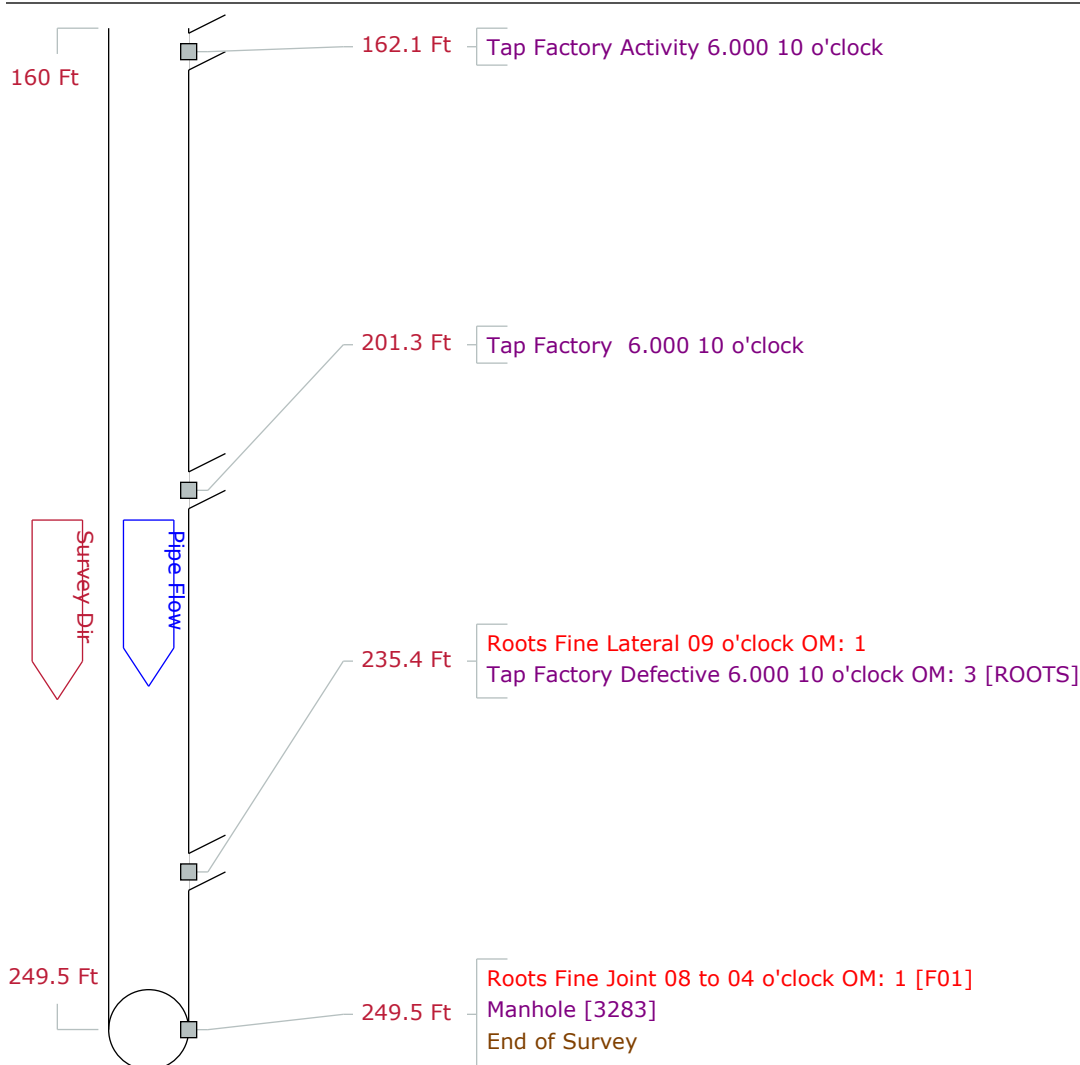
Setup	333	Surveyed By	AGS	Certificate #	U61406021126	Owner	
Reviewed By		Reviewer #		Work Order			
Customer				P/O #			
Media Label		Project	SANITARY				
Date	2021/05/17	Time	13:55	Weather	Dry - no Precipitation	Pre-Cleaning	L
Flow control		Survey Purpose				Direction	Downstream
Street	W ST JOES ST	City	HILLSDALE	Drainage area			
Location Code		Pipe Use	Sanitary Sewage Pipe				
Location details		Height	8	Width	ins		
Shape	Circular	Material	Vitrified Clay Pipe	Lining			
Coating		Pipe Joint length	Ft	Total length	247.5	Ft	<div>Structural</div> <div>O & M</div>
Length Surveyed	249.50 Ft	Year Constructed		Year Renewed			<div>Miscellaneous</div> <div>Constructional</div>
Additional info							
Up	3284	Rim to invert		Grade to invert		Rim to grade	Ft
Down	3283	Rim to invert		Grade to invert		Rim to grade	Ft



Pipe Graphic Report of PLR 4279

for Hillsdale

Setup	333	Surveyed By	AGS	Certificate #	U61406021126	Owner	
Reviewed By		Reviewer #		Work Order			
Customer				P/O #			
Media Label		Project	SANITARY				
Date	2021/05/17	Time	13:55	Weather	Dry - no Precipitation	Pre-Cleaning	L
Flow control		Survey Purpose				Date Cleaned	
Street	W ST JOES ST	City	HILLSDALE	Drainage area			
Location Code		Pipe Use	Sanitary Sewage Pipe				
Location details		Height	8	Width	ins		
Shape	Circular	Material	Vitrified Clay Pipe	Lining			
Coating		Pipe Joint length	Ft	Total length	247.5	Ft	Structural O & M
Length Surveyed	249.50 Ft	Year Constructed		Year Renewed			Miscellaneous Constructional
Additional info							
Up	3284	Rim to invert		Grade to invert		Rim to grade	Ft
Down	3283	Rim to invert		Grade to invert		Rim to grade	Ft



Tabular Report of PSR 4279
for Hillsdale

Setup 333	Surveyed By AGS	Certificate # U61406021126	Owner
Reviewed By	Reviewer #	Work Order	
Customer		P/O #	
Media Label	Project SANITARY		
Date 2021/05/17	Time 13:55	Weather Dry - no Precipitation	Pre-Cleaning L
Flow control	Survey Purpose		Date Cleaned
Inspection Status Complete Inspection	Consequence Of Failure	Pressure	
Inspection Technology Used	<input type="checkbox"/> CCTV <input type="checkbox"/> Laser <input type="checkbox"/> Sonar <input type="checkbox"/> Sidewall <input type="checkbox"/> Zoom <input type="checkbox"/> Other		
Street W ST JOES ST	City HILLSDALE	Drainage area	
Location Code		Pipe Use Sanitary Sewage Pipe	
Location details		Height 8	Width ins
Shape Circular	Material Vitrified Clay Pipe	Lining	
Coating	Pipe Joint length Ft	Total length 247.5	Ft
Length Surveyed 249.5 Ft	Year Constructed	Year Renewed	
Up 3284	Rim to invert	Grade to invert	Rim to grade Ft
Northing	Easting	Elevation	
Down 3283	Rim to invert	Grade to invert	Rim to grade Ft
Northing	Easting	Elevation	
Coordinate System	Vertical Datum		
GPS Accuracy	<div> Structural O & M Miscellaneous Constructional </div>		
Additional info			

Count	Video	CD	Code	Val1	Val2	%	Jnt	Fr	To	Im	Ref	Remarks
0.0			ST Start of Survey									
0.0			AMH Manhole									3284
0.0			MWL Miscellaneous Water Level			5.000						
7.7			RFJ Roots Fine Joint				J	09	04			
15.7		S01	RFJ Roots Fine Joint				J	08	04			
52.1			TFA Tap Factory Activity	6.000				09				
53.1			FL Fracture Longitudinal				J	12				
56.0			TB Tap Break-in/Hammer	6.000				09				
56.5			FM Fracture Multiple				J	08	01			
57.2			FM Fracture Multiple				J	08	04			
61.1			FS Fracture Spiral				J	08	10			
96.0			MMC Miscellaneous Material Change									PVC
99.3			MMC Miscellaneous Material Change									VCP
100.1			HSV Hole Soil Visible				J	11	01			
104.9			TFC Tap Factory Capped	6.000				10				
160.0			TFC Tap Factory Capped	6.000				09				
162.1			TFA Tap Factory Activity	6.000				10				
201.3			TF Tap Factory	6.000				10				
235.4			RFL Roots Fine Lateral					09				
235.4			TFD Tap Factory Defective	6.000				10				ROOTS
249.5		F01	RFJ Roots Fine Joint				J	08	04			
249.5			AMH Manhole									3283
249.5			FH End of Survey									

Tabular Report of PSR 4279**for Hillsdale**

Setup	333	Date	2021/05/17	Time	13:55	Up	3284	Down	3283
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249.5 Ft **Total Length Surveyed****Scores**

Structural:	Pipe Rating	19	Pipe Ratings Index	3.8	Quick Rating	5142
O&M:	Pipe Rating	52	Pipe Ratings Index	1	Quick Rating	311H
Overall	Pipe Rating	71	Pipe Ratings Index	1.3	Quick Rating	5142

City:HILLSDALE Street:W ST JOES ST
From MH:3284 Dir:D To MH:3283
Mat:VCP Size:ins

02:30

01.06.94

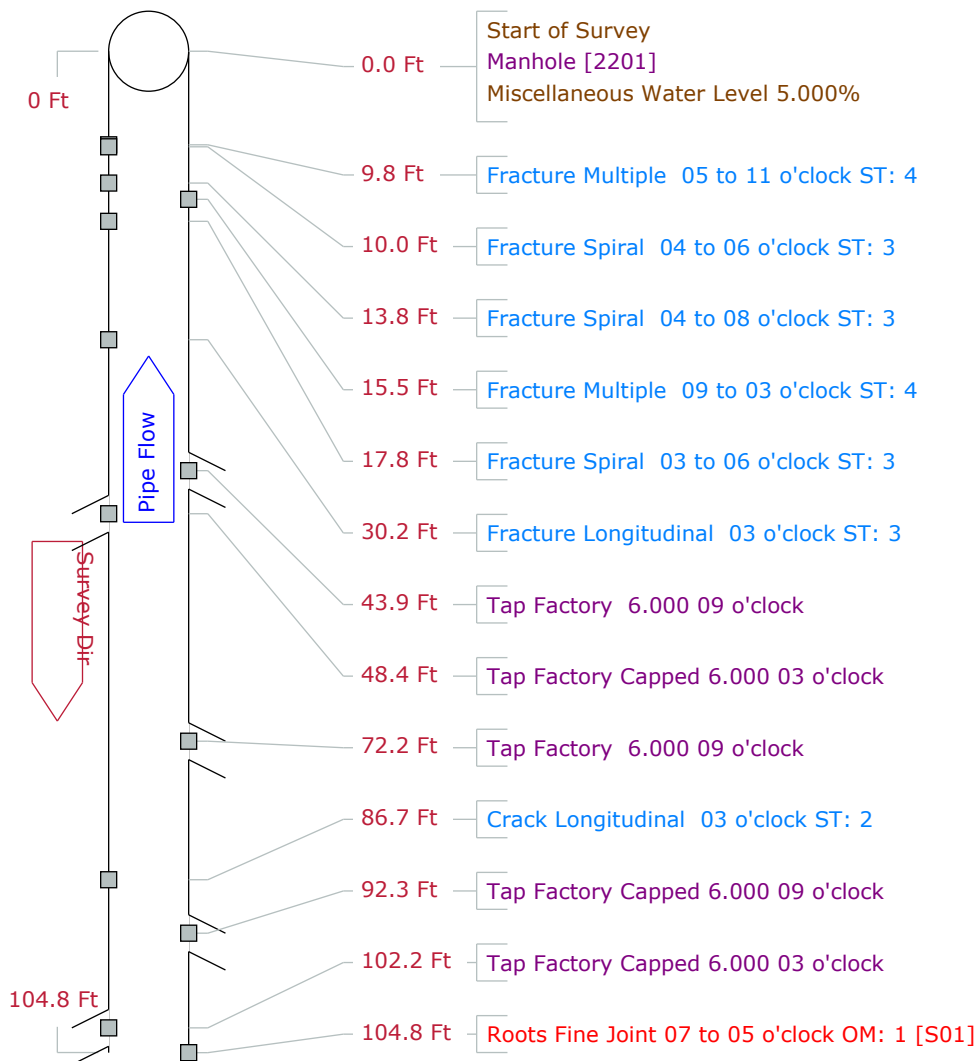
LC 1: 100, 100 ft

Union St. - Lining - MH2201 to 1930

Pipe Graphic Report of PLR 4192

for Hillsdale

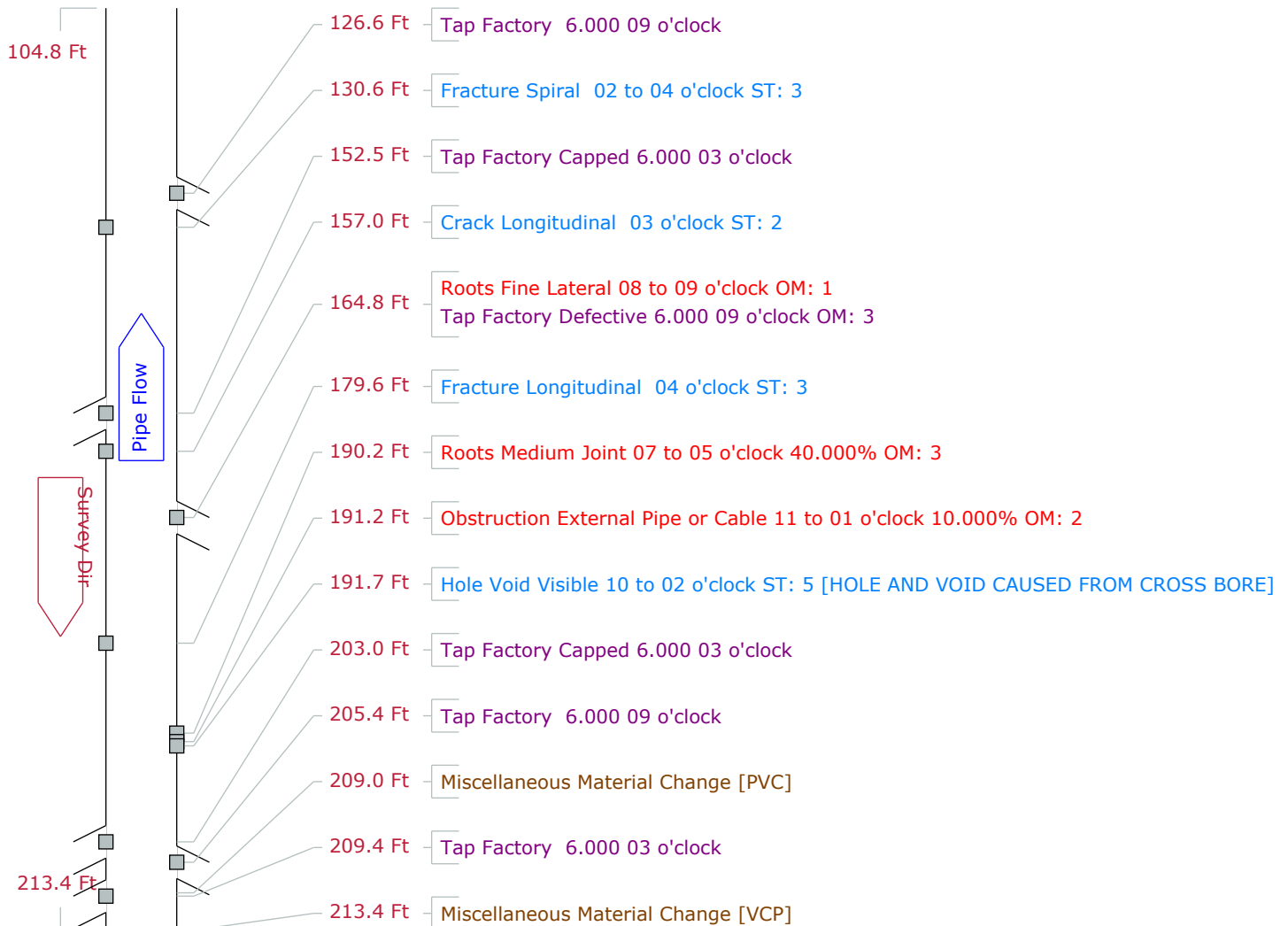
Setup	606	Surveyed By	AGS	Certificate #	U61406021126	Owner	
Reviewed By		Reviewer #		Work Order			
Customer				P/O #			
Media Label		Project	SANITARY				
Date	2021/06/16	Time	14:21	Weather	Dry - no Precipitation	Pre-Cleaning	N
Flow control		Survey Purpose				Date Cleaned	
Street	UNION ST	City	HILLSDALE	Drainage area			
Location Code		Pipe Use	Sanitary Sewage Pipe				
Location details		Height	8	Width	ins		
Shape	Circular	Material	Vitrified Clay Pipe	Lining			
Coating		Pipe Joint length	Ft	Total length	257.4	Ft	Structural O & M
Length Surveyed	256.30	Year Constructed		Year Renewed			Miscellaneous Constructional
Additional info							
Up	1930	Rim to invert		Grade to invert		Rim to grade	Ft
Down	2201	Rim to invert		Grade to invert		Rim to grade	Ft



Pipe Graphic Report of PLR 4192

for Hillsdale

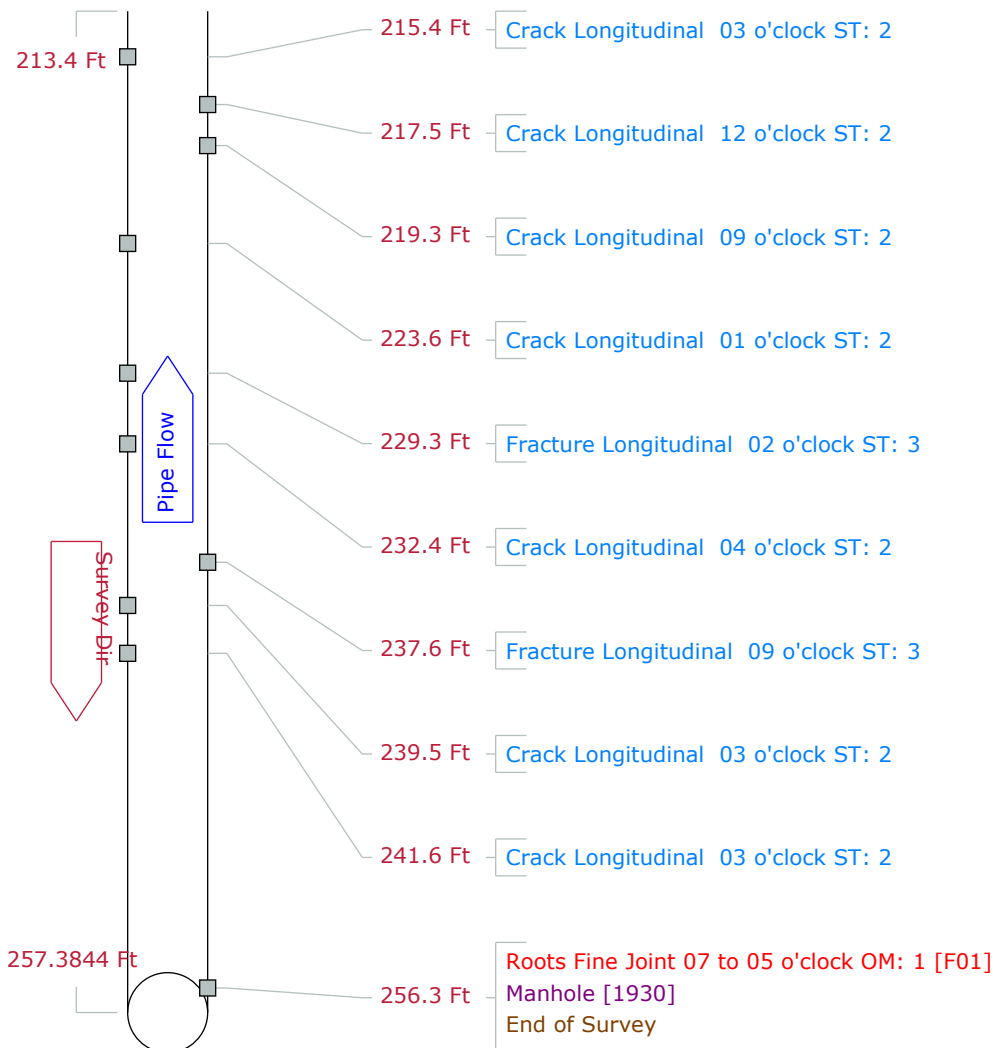
Setup	606	Surveyed By	AGS	Certificate #	U61406021126	Owner	
Reviewed By		Reviewer #		Work Order			
Customer				P/O #			
Media Label		Project	SANITARY				
Date	2021/06/16	Time	14:21	Weather	Dry - no Precipitation	Pre-Cleaning	N
Flow control		Survey Purpose				Date Cleaned	
Street	UNION ST	City	HILLSDALE	Drainage area			
Location Code		Pipe Use	Sanitary Sewage Pipe				
Location details		Height	8	Width	ins		
Shape	Circular	Material	Vitrified Clay Pipe	Lining			
Coating		Pipe Joint length	Ft	Total length	257.4	Ft	Structural O & M
Length Surveyed	256.30	Year Constructed		Year Renewed			Miscellaneous Constructional
Additional info							
Up	1930	Rim to invert		Grade to invert		Rim to grade	Ft
Down	2201	Rim to invert		Grade to invert		Rim to grade	Ft



Pipe Graphic Report of PLR 4192

for Hillsdale

Setup	606	Surveyed By	AGS	Certificate #	U61406021126	Owner	
Reviewed By		Reviewer #		Work Order			
Customer				P/O #			
Media Label		Project	SANITARY				
Date	2021/06/16	Time	14:21	Weather	Dry - no Precipitation	Pre-Cleaning	N
Flow control		Survey Purpose				Date Cleaned	
Street	UNION ST	City	HILLSDALE	Drainage area			
Location Code		Pipe Use	Sanitary Sewage Pipe				
Location details		Height	8	Width	ins		
Shape	Circular	Material	Vitrified Clay Pipe	Lining			
Coating		Pipe Joint length	Ft	Total length	257.4	Ft	Structural O & M
Length Surveyed	256.30	Year Constructed		Year Renewed			Miscellaneous Constructional
Additional info							
Up	1930	Rim to invert		Grade to invert		Rim to grade	Ft
Down	2201	Rim to invert		Grade to invert		Rim to grade	Ft



Tabular Report of PSR 4192
for Hillsdale

Setup 606	Surveyed By AGS	Certificate # U61406021126	Owner
Reviewed By	Reviewer #	Work Order	
Customer		P/O #	
Media Label	Project SANITARY		
Date 2021/06/16	Time 14:21	Weather Dry - no Precipitation	Pre-Cleaning N
Flow control	Survey Purpose		Date Cleaned
Inspection Status Complete Inspection	Consequence Of Failure	Pressure	
Inspection Technology Used	<input type="checkbox"/> CCTV <input type="checkbox"/> Laser <input type="checkbox"/> Sonar <input type="checkbox"/> Sidewall <input type="checkbox"/> Zoom <input type="checkbox"/> Other		
Street UNION ST	City HILLSDALE	Drainage area	
Location Code		Pipe Use Sanitary Sewage Pipe	
Location details		Height 8	Width ins
Shape Circular	Material Vitrified Clay Pipe	Lining	
Coating	Pipe Joint length Ft	Total length 257.4	Ft
Length Surveyed 256.3 Ft	Year Constructed	Year Renewed	
Up 1930	Rim to invert	Grade to invert	Rim to grade Ft
Northing	Easting	Elevation	
Down 2201	Rim to invert	Grade to invert	Rim to grade Ft
Northing	Easting	Elevation	
Coordinate System	Vertical Datum		
GPS Accuracy	<div> Structural O & M </div>		
Additional info	<div> Miscellaneous Constructional </div>		

Count	Video	CD	Code	Val1	Val2	%	Jnt	Fr	To	Im	Ref	Remarks
0.0			ST Start of Survey									
0.0			AMH Manhole									2201
0.0			MWL Miscellaneous Water Level			5.000						
9.8			FM Fracture Multiple				J	05	11			
10.0			FS Fracture Spiral				J	04	06			
13.8			FS Fracture Spiral				J	04	08			
15.5			FM Fracture Multiple				J	09	03			
17.8			FS Fracture Spiral				J	03	06			
30.2			FL Fracture Longitudinal				J	03				
43.9			TF Tap Factory	6.000				09				
48.4			TFC Tap Factory Capped	6.000				03				
72.2			TF Tap Factory	6.000				09				
86.7			CL Crack Longitudinal				J	03				
92.3			TFC Tap Factory Capped	6.000				09				
102.2			TFC Tap Factory Capped	6.000				03				
104.8		S01	RFJ Roots Fine Joint				J	07	05			
126.6			TF Tap Factory	6.000				09				
130.6			FS Fracture Spiral				J	02	04			
152.5			TFC Tap Factory Capped	6.000				03				
157.0			CL Crack Longitudinal				J	03				
164.8			RFL Roots Fine Lateral					08	09			
164.8			TFD Tap Factory Defective	6.000				09				
179.6			FL Fracture Longitudinal				J	04				

Tabular Report of PSR 4192
for Hillsdale

Setup	606	Date	2021/06/16	Time	14:21	Up	1930	Down	2201			
Count	Video	CD	Code		Val1	Val2	%	Jnt	Fr	To	ImRef	Remarks
190.2			RMJ	Roots Medium Joint			40.000	J	07	05		
191.2			OBP	Obstruction External Pipe or Cable			10.000		11	01		
191.7			HVV	Hole Void Visible					10	02		HOLE AND VOID CAUSED FROM C
203.0			TFC	Tap Factory Capped	6.000				03			
205.4			TF	Tap Factory	6.000				09			
209.0			MMC	Miscellaneous Material Change								PVC
209.4			TF	Tap Factory	6.000				03			
213.4			MMC	Miscellaneous Material Change								VCP
215.4			CL	Crack Longitudinal				J	03			
217.5			CL	Crack Longitudinal				J	12			
219.3			CL	Crack Longitudinal				J	09			
223.6			CL	Crack Longitudinal				J	01			
229.3			FL	Fracture Longitudinal				J	02			
232.4			CL	Crack Longitudinal				J	04			
237.6			FL	Fracture Longitudinal				J	09			
239.5			CL	Crack Longitudinal				J	03			
241.6			CL	Crack Longitudinal				J	03			
256.3		F01	RFJ	Roots Fine Joint				J	07	05		
256.3			AMH	Manhole								1930
256.3			FH	End of Survey								

256.3 Ft Total Length Surveyed

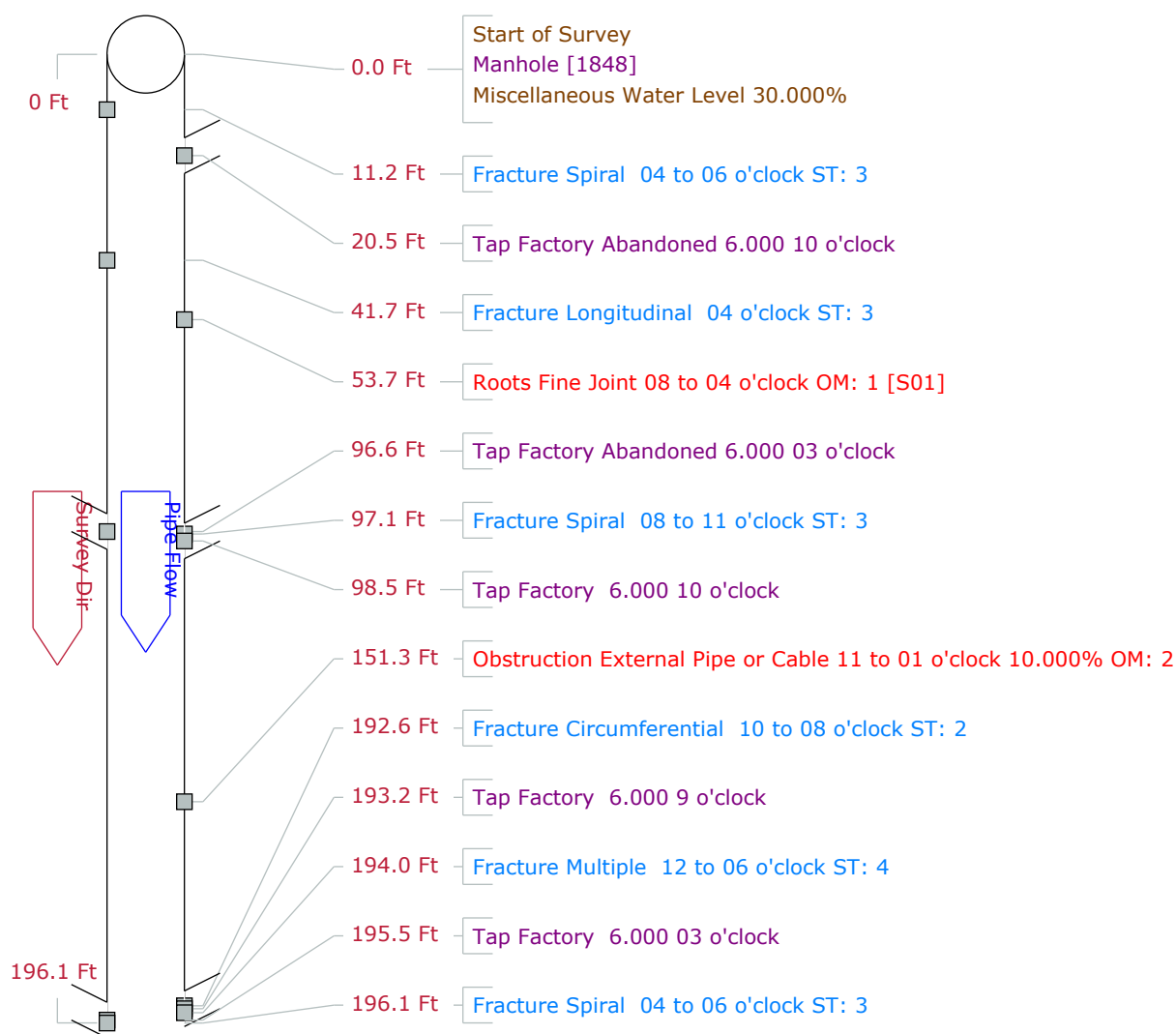
Scores	Structural:	Pipe Rating 55	Pipe Ratings Index 2.8	Quick Rating 5142
	O&M:	Pipe Rating 39	Pipe Ratings Index 1.1	Quick Rating 3221
	Overall	Pipe Rating 94	Pipe Ratings Index 1.7	Quick Rating 5142

West St. - Lining - MH1848A to 1848 to 1849

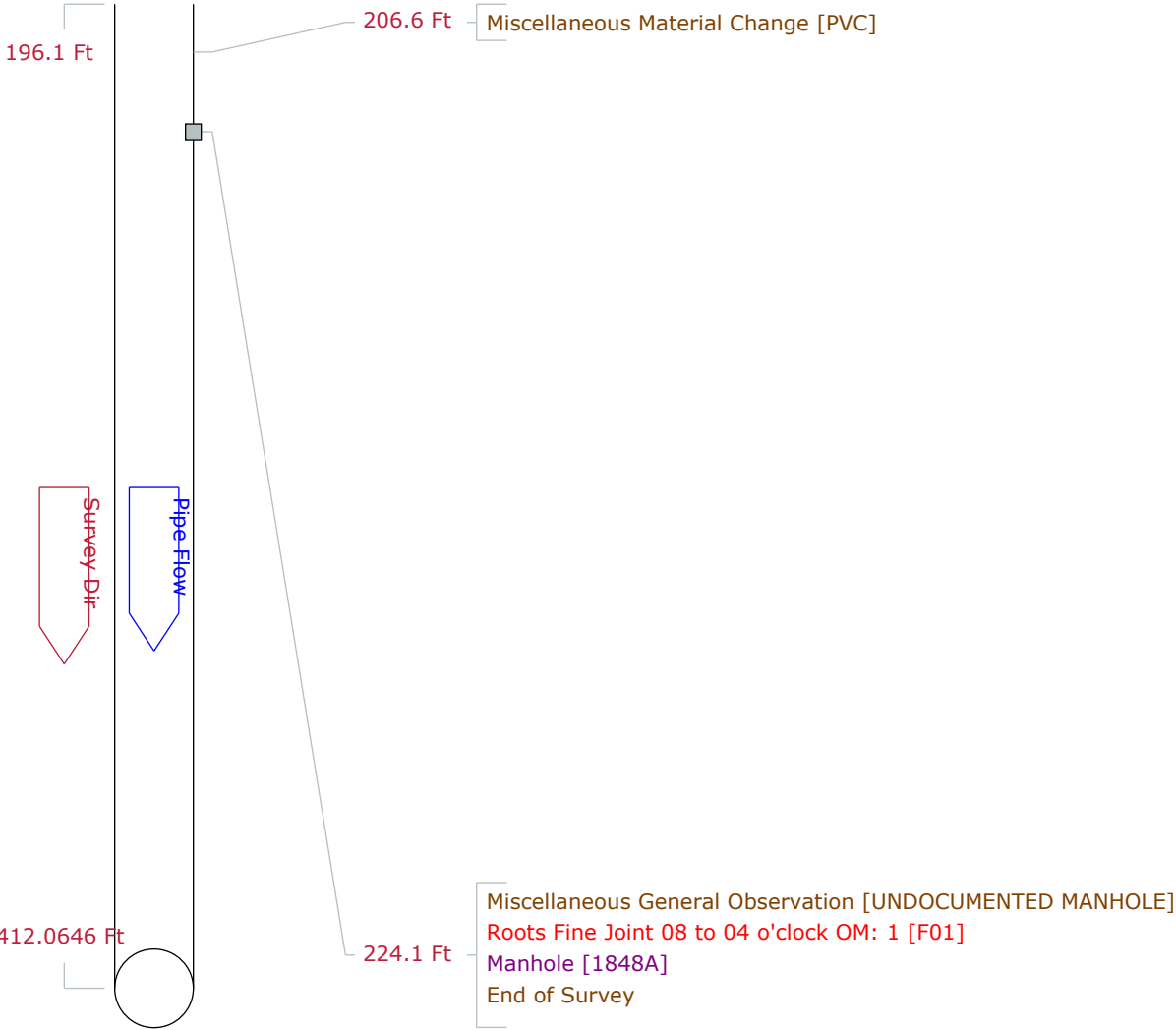
Pipe Graphic Report of PLR 4110

for Hillsdale

Setup	564	Surveyed By	AGS	Certificate #	U61406021126	Owner	
Reviewed By		Reviewer #		Work Order			
Customer				P/O #			
Media Label		Project	SANITARY				
Date	2021/06/11	Time	14:25	Weather	Dry - no Precipitation	Pre-Cleaning	N
Flow control		Survey Purpose				Date Cleaned	
Street	WEST ST	City	HILLSDALE	Drainage area			
Location Code		Pipe Use	Sanitary Sewage Pipe				
Location details		Height	8	Width	ins		
Shape	Circular	Material	Vitrified Clay Pipe	Lining			
Coating		Pipe Joint length	Ft	Total length	412.1	Ft	Structural O & M
Length Surveyed	224.10	Year Constructed		Year Renewed			Miscellaneous Constructional
Additional info							
Up	1848	Rim to invert		Grade to invert		Rim to grade	Ft
Down	1848A	Rim to invert		Grade to invert		Rim to grade	Ft



Setup	564	Surveyed By	AGS	Certificate #	U61406021126	Owner	
Reviewed By		Reviewer #		Work Order			
Customer				P/O #			
Media Label		Project	SANITARY				
Date	2021/06/11	Time	14:25	Weather	Dry - no Precipitation	Pre-Cleaning	N
Flow control		Survey Purpose				Date Cleaned	
Street	WEST ST	City	HILLSDALE	Drainage area			
Location Code		Pipe Use	Sanitary Sewage Pipe				
Location details		Height	8	Width	ins		
Shape	Circular	Material	Vitrified Clay Pipe	Lining			
Coating		Pipe Joint length	Ft	Total length	412.1	Ft	Structural O & M
Length Surveyed	224.10	Year Constructed		Year Renewed			Miscellaneous Constructional
Additional info							
Up	1848	Rim to invert		Grade to invert		Rim to grade	Ft
Down	1848A	Rim to invert		Grade to invert		Rim to grade	Ft



Tabular Report of PSR 4110
for Hillsdale

Setup 564	Surveyed By AGS	Certificate # U61406021126	Owner
Reviewed By	Reviewer #	Work Order	
Customer		P/O #	
Media Label	Project SANITARY		
Date 2021/06/11	Time 14:25	Weather Dry - no Precipitation	Pre-Cleaning N
Flow control	Survey Purpose		Date Cleaned
Inspection Status Complete Inspection	Consequence Of Failure	Pressure	Direction Down
Inspection Technology Used	<input type="checkbox"/> CCTV <input type="checkbox"/> Laser <input type="checkbox"/> Sonar <input type="checkbox"/> Sidewall <input type="checkbox"/> Zoom <input type="checkbox"/> Other		
Street WEST ST	City HILLSDALE	Drainage area	
Location Code		Pipe Use Sanitary Sewage Pipe	
Location details		Height 8	Width ins
Shape Circular	Material Vitrified Clay Pipe	Lining	
Coating	Pipe Joint length	Ft	Total length 412.1 Ft
Length Surveyed 224.1 Ft	Year Constructed		Year Renewed
Up 1848	Rim to invert	Grade to invert	Rim to grade Ft
Northing	Easting	Elevation	
Down 1848A	Rim to invert	Grade to invert	Rim to grade Ft
Northing	Easting	Elevation	
Coordinate System		Vertical Datum	
GPS Accuracy		Structural	O & M
Additional info		Miscellaneous	Constructional

Count	Video	CD	Code	Val1	Val2	%	Jnt	Fr	To	Im	Ref	Remarks
0.0			ST Start of Survey									
0.0			AMH Manhole									1848
0.0			MWL Miscellaneous Water Level			30.000						
11.2			FS Fracture Spiral				J	04	06			
20.5			TFB Tap Factory Abandoned	6.000				10				
41.7			FL Fracture Longitudinal				J	04				
53.7		S01	RFJ Roots Fine Joint				J	08	04			
96.6			TFB Tap Factory Abandoned	6.000				03				
97.1			FS Fracture Spiral				J	08	11			
98.5			TF Tap Factory	6.000				10				
151.3			OBP Obstruction External Pipe or Cable			10.000		11	01			
192.6			FC Fracture Circumferential					10	08			
193.2			TF Tap Factory	6.000				9				
194.0			FM Fracture Multiple				J	12	06			
195.5			TF Tap Factory	6.000				03				
196.1			FS Fracture Spiral				J	04	06			
206.6			MMC Miscellaneous Material Change									PVC
224.1			MGO Miscellaneous General Observation									UNDOCUMENTED MANHOLE
224.1		F01	RFJ Roots Fine Joint				J	08	04			
224.1			AMH Manhole									1848A
224.1			FH End of Survey									

224.1 Ft Total Length Surveyed

Tabular Report of PSR 4110**for Hillsdale**

Setup	564	Date	2021/06/11	Time	14:25	Up	1848	Down	1848A
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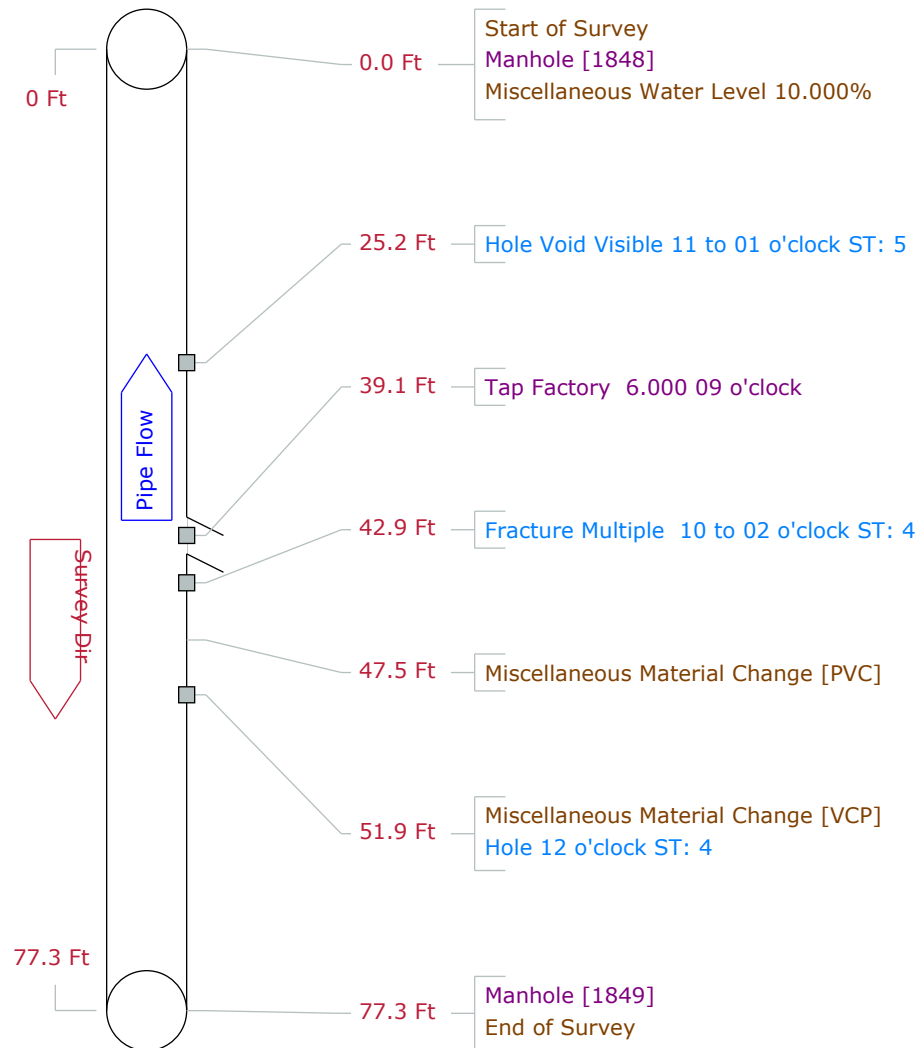
Scores

Structural:	Pipe Rating	18	Pipe Ratings Index	3	Quick Rating	4134
O&M:	Pipe Rating	36	Pipe Ratings Index	1	Quick Rating	211E
Overall	Pipe Rating	54	Pipe Ratings Index	1.3	Quick Rating	4134

Pipe Graphic Report of PLR 4108

for Hillsdale

Setup	567	Surveyed By	AGS	Certificate #	U61406021126	Owner	
Reviewed By		Reviewer #		Work Order			
Customer				P/O #			
Media Label		Project	SANITARY				
Date	2021/06/11	Time	12:29	Weather	Dry - no Precipitation	Pre-Cleaning	N
Flow control		Survey Purpose				Date Cleaned	
Street	WEST ST	City	HILLSDALE	Drainage area			
Location Code		Pipe Use	Sanitary Sewage Pipe				
Location details		Height	8	Width	ins		
Shape	Circular	Material	Vitrified Clay Pipe	Lining			
Coating		Pipe Joint length	Ft	Total length	75.4	Ft	Structural O & M
Length Surveyed	77.30	Year Constructed		Year Renewed			Miscellaneous Constructional
Additional info							
Up	1849	Rim to invert		Grade to invert		Rim to grade	Ft
Down	1848	Rim to invert		Grade to invert		Rim to grade	Ft



Tabular Report of PSR 4108

for Hillsdale

Setup 567	Surveyed By AGS	Certificate # U61406021126	Owner
Reviewed By	Reviewer #	Work Order	
Customer		P/O #	
Media Label	Project SANITARY		
Date 2021/06/11	Time 12:29	Weather Dry - no Precipitation	Pre-Cleaning N
Flow control	Survey Purpose		Date Cleaned
Inspection Status Complete Inspection	Consequence Of Failure	Pressure	
Inspection Technology Used	<input type="checkbox"/> CCTV <input type="checkbox"/> Laser <input type="checkbox"/> Sonar <input type="checkbox"/> Sidewall <input type="checkbox"/> Zoom <input type="checkbox"/> Other		
Street WEST ST	City HILLSDALE	Drainage area	
Location Code		Pipe Use Sanitary Sewage Pipe	
Location details		Height 8	Width ins
Shape Circular	Material Vitrified Clay Pipe	Lining	
Coating	Pipe Joint length	Ft	Total length 75.4 Ft
Length Surveyed 77.3 Ft	Year Constructed		Year Renewed
Up 1849	Rim to invert	Grade to invert	Rim to grade Ft
Northing	Easting	Elevation	
Down 1848	Rim to invert	Grade to invert	Rim to grade Ft
Northing	Easting	Elevation	
Coordinate System		Vertical Datum	
GPS Accuracy			Structural O & M Miscellaneous Constructional
Additional info			

Count Video	CD Code	Val1	Val2	%	Jnt	Fr	To	ImRef	Remarks
0.0	ST	Start of Survey							
0.0	AMH	Manhole							1848
0.0	MWL	Miscellaneous Water Level		10.000					
25.2	HVV	Hole Void Visible			J	11	01		
39.1	TF	Tap Factory	6.000			09			
42.9	FM	Fracture Multiple			J	10	02		
47.5	MMC	Miscellaneous Material Change							PVC
51.9	MMC	Miscellaneous Material Change							VCP
51.9	H	Hole				12			
77.3	AMH	Manhole							1849
77.3	FH	End of Survey							

77.3 Ft Total Length Surveyed

Scores	Structural:	Pipe Rating 13	Pipe Ratings Index 4.3	Quick Rating 5142
	O&M:	Pipe Rating 0	Pipe Ratings Index 0	Quick Rating 0000
	Overall	Pipe Rating 13	Pipe Ratings Index 4.3	Quick Rating 5142

Counter:151.3

Code:OBP

Percent:000010

From:11

To:01

Remarks:

03:04

05.06.15

LC1: 151.30 ft

Counter:25.2
Code:HVV
Percent:
From:14
To:01



01:03

05.06.15

LC1: 025.20 ft