



### Defect Listing

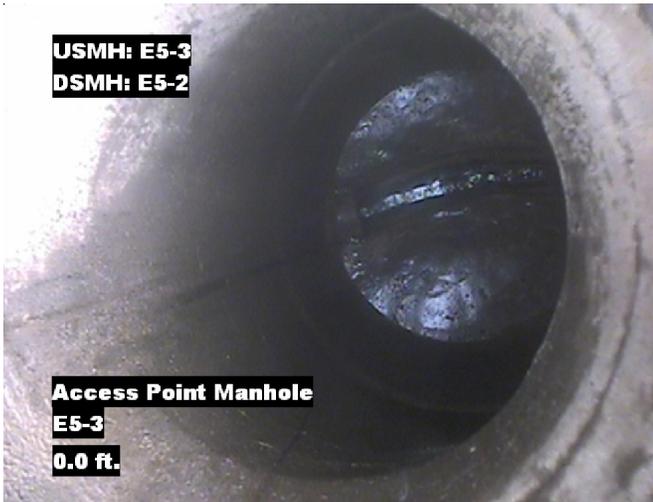
Pipe Segment Refere... <b>E5-3_E5-2</b>	City <b>Oliver Springs</b>	Street <b>Ridge View Dr</b>	Material <b>Concrete Pipe (non-...</b>	Location C... <b>Light High...</b>	Sewer Use <b>Sanitary</b>
Upstream MH <b>E5-3</b>	Total Length <b>290.7</b>	Year Laid	Shape <b>Circular</b>	Location Details <b>Street</b>	
DS Manhole <b>E5-2</b>	Length surveyed <b>290.7</b>	Year Renewed	Height <b>8</b>	Width <b>8</b>	Pipe Joint... <b>4</b>

SPR <b>2</b>	MPR <b>21</b>	PO Number <b>4397-03</b>		Customer <b>GRW</b>	
SPRI <b>2</b>	MPRI <b>2.3</b>	Work Order <b>4397-02</b>		Purpose <b>Pre-Rehabilitation Survey</b>	
QSR <b>2100</b>	QMR <b>4226</b>	Direction <b>Downstream</b>	Date <b>20150612</b>	Media label	
OPR <b>23</b>	Surveyed By <b>Barry_Rogers</b>	Pre-Cleaning <b>Jetting</b>	Time <b>09:38</b>	Weather <b>Dry</b>	
OPRI <b>2.3</b>	Certificate Number <b>U-1012-16405</b>	Date Cleaned <b>20150612</b>	End Time <b>09:57</b>	Additional Info	

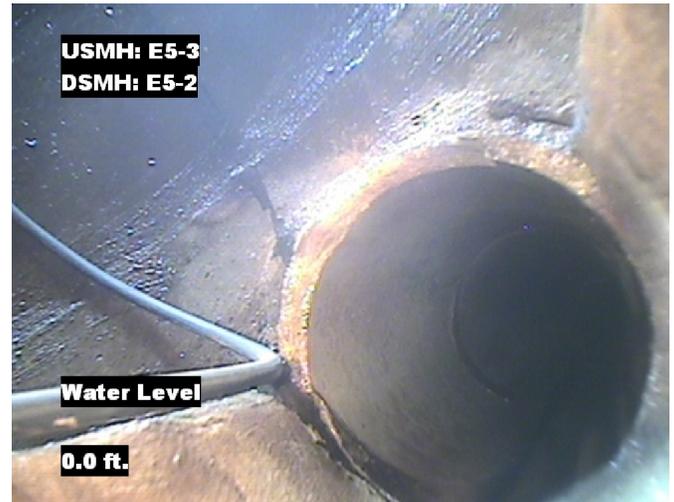
Distance	Condition	Cont. Dfct.	Values			Joint	Clock Position		Grade
			1st	2nd	%		At/From	To	
0.0 ft.	Access Point Manhole				0	<input type="checkbox"/>			
<b>Remarks:</b> E5-3									
0.0 ft.	Water Level				5	<input type="checkbox"/>			
13.9 ft.	Tap Factory Made		6		0	<input type="checkbox"/>	12		
71.6 ft.	Tap Break-In Intruding		6		0	<input type="checkbox"/>	2		2
94.4 ft.	Tap Factory Made		6		0	<input type="checkbox"/>	9		
98.1 ft.	Tap Factory Made		6		0	<input type="checkbox"/>	3		
163.2 ft.	Tap Factory Made		6		0	<input type="checkbox"/>	9		
166.3 ft.	Water Level Sag				10	<input type="checkbox"/>			2
187.8 ft.	Water Level Sag				20	<input type="checkbox"/>			2
198.4 ft.	Infiltration Stain					<input checked="" type="checkbox"/>	7	5	
198.4 ft.	Surface Spalling					<input checked="" type="checkbox"/>	7	5	2
198.8 ft.	Roots Fine Joint					<input checked="" type="checkbox"/>	10	2	1
198.8 ft.	Infiltration Runner					<input checked="" type="checkbox"/>	11	1	4
208.4 ft.	Infiltration Runner				0	<input type="checkbox"/>	12		4
242.1 ft.	Water Level Sag				10	<input type="checkbox"/>			2
245.8 ft.	Tap Factory Made		6		0	<input type="checkbox"/>	12		
258.7 ft.	Water Level Sag				15	<input type="checkbox"/>			2
261.5 ft.	Tap Factory Made Active		6		0	<input type="checkbox"/>	2		
267.9 ft.	Water Level Sag				20	<input type="checkbox"/>			2
287.8 ft.	Water Level				5	<input type="checkbox"/>			
290.7 ft.	Access Point Manhole				0	<input type="checkbox"/>			
<b>Remarks:</b> E5-2									

### Image Report 4/Page

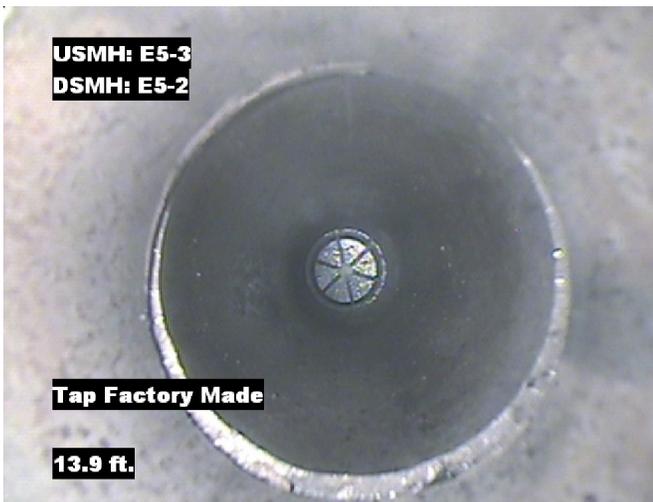
Pipe Segment Refere... <b>E5-3_E5-2</b>	<b>City</b> Oliver Springs	<b>Street</b> Ridge View Dr	<b>Material</b> Concrete Pipe (non-...		<b>Location C...</b> Light High...	<b>Sewer Use</b> Sanitary
<b>Upstream MH</b> <b>E5-3</b>	Total Length <b>290.7</b>	Year Laid	<b>Shape</b> Circular		Location Details <b>Street</b>	
<b>DS Manhole</b> <b>E5-2</b>	<b>Length surveyed</b> <b>290.7</b>	Year Renewed	<b>Height</b> <b>8</b>	Width <b>8</b>	Pipe Joint...	<b>4</b>



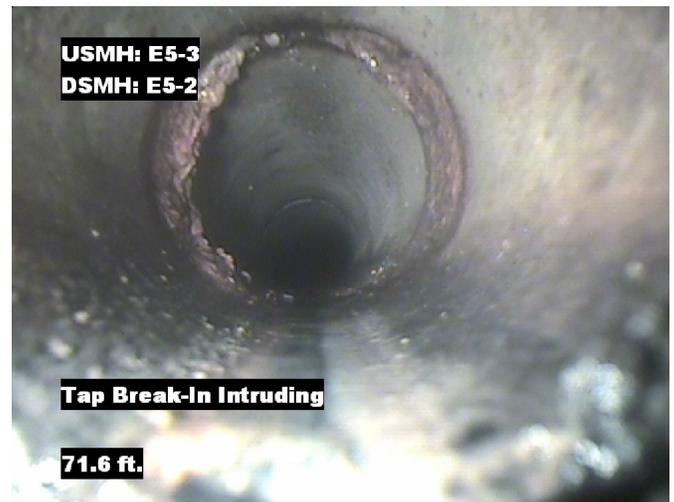
Distance: 0.0 ft.      Grade: 0  
Condition: Access Point Manhole  
Remarks: E5-3



Distance: 0.0 ft.      Grade: 0  
Condition: Water Level  
Remarks: N/A



Distance: 13.9 ft.      Grade: 0  
Condition: Tap Factory Made  
Remarks: N/A

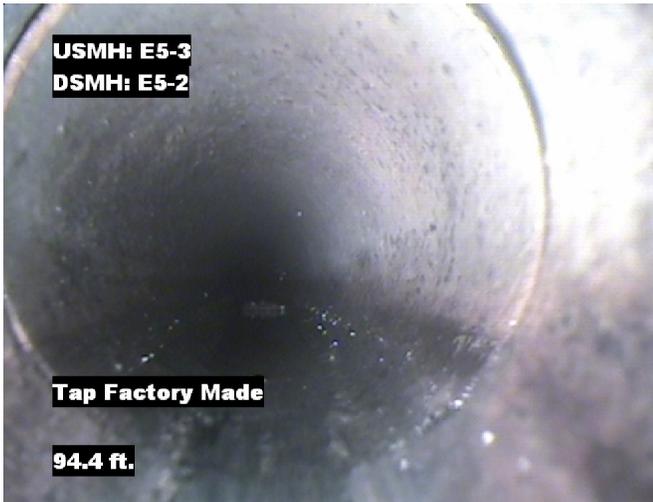


Distance: 71.6 ft.      Grade: 2  
Condition: Tap Break-In Intruding  
Remarks: N/A

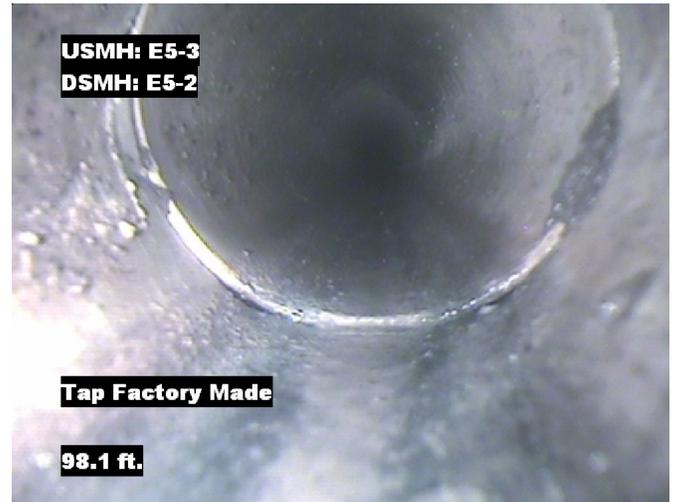


Image Report 4/Page

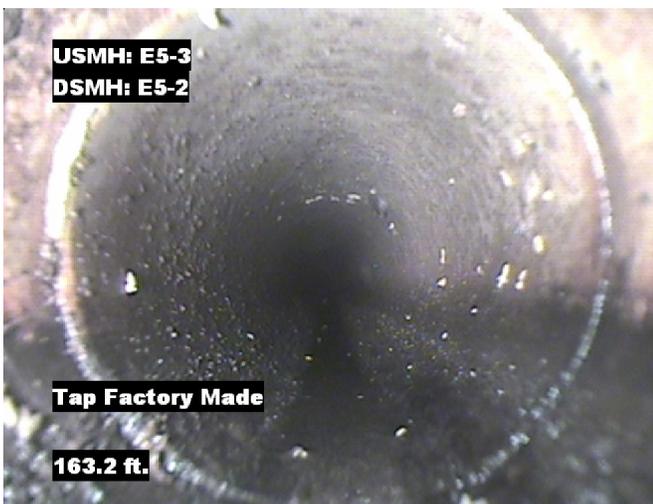
Pipe Segment Refere... <b>E5-3_E5-2</b>	<b>City</b> <b>Oliver Springs</b>	<b>Street</b> <b>Ridge View Dr</b>	<b>Material</b> <b>Concrete Pipe (non-...</b>		<b>Location C...</b> <b>Light High...</b>	<b>Sewer Use</b> <b>Sanitary</b>
<b>Upstream MH</b> <b>E5-3</b>	Total Length <b>290.7</b>	Year Laid	<b>Shape</b> <b>Circular</b>		Location Details <b>Street</b>	
<b>DS Manhole</b> <b>E5-2</b>	<b>Length surveyed</b> <b>290.7</b>	Year Renewed	<b>Height</b> <b>8</b>	Width <b>8</b>	Pipe Joint...	<b>4</b>



Distance: 94.4 ft.      Grade: 0  
 Condition: Tap Factory Made  
 Remarks: N/A



Distance: 98.1 ft.      Grade: 0  
 Condition: Tap Factory Made  
 Remarks: N/A



Distance: 163.2 ft.      Grade: 0  
 Condition: Tap Factory Made  
 Remarks: N/A



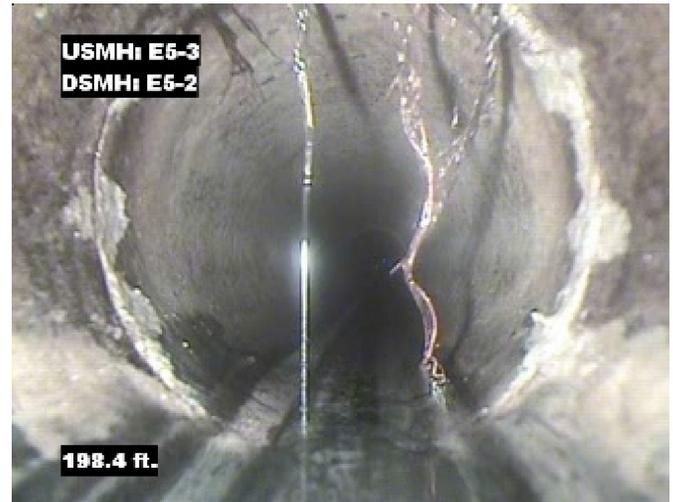
Distance: 166.3 ft.      Grade: 2  
 Condition: Water Level Sag  
 Remarks: N/A

### Image Report 4/Page

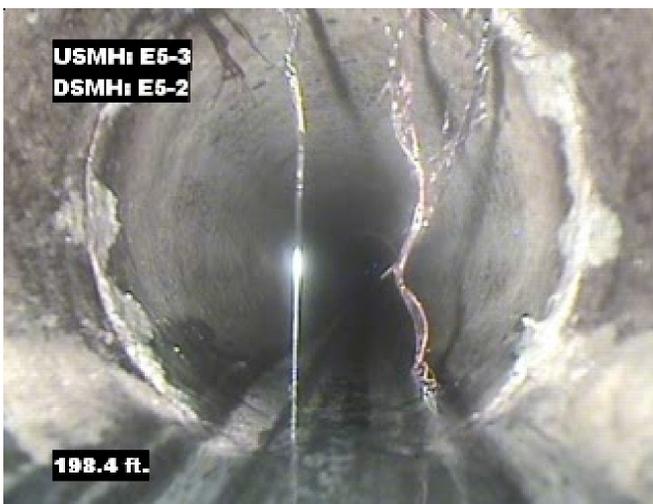
Pipe Segment Refere... <b>E5-3_E5-2</b>	<b>City</b> <b>Oliver Springs</b>	<b>Street</b> <b>Ridge View Dr</b>	<b>Material</b> <b>Concrete Pipe (non-...</b>		<b>Location C...</b> <b>Light High...</b>	<b>Sewer Use</b> <b>Sanitary</b>
<b>Upstream MH</b> <b>E5-3</b>	Total Length <b>290.7</b>	Year Laid	<b>Shape</b> <b>Circular</b>		Location Details <b>Street</b>	
<b>DS Manhole</b> <b>E5-2</b>	<b>Length surveyed</b> <b>290.7</b>	Year Renewed	<b>Height</b> <b>8</b>	Width <b>8</b>	Pipe Joint... <b>4</b>	



Distance: 187.8 ft.      Grade: 2  
 Condition: Water Level Sag  
 Remarks: N/A



Distance: 198.4 ft.      Grade: 0  
 Condition: Infiltration Stain  
 Remarks: N/A



Distance: 198.4 ft.      Grade: 2  
 Condition: Surface Spalling  
 Remarks: N/A



Distance: 198.8 ft.      Grade: 1  
 Condition: Roots Fine Joint  
 Remarks: N/A



Image Report 4/Page

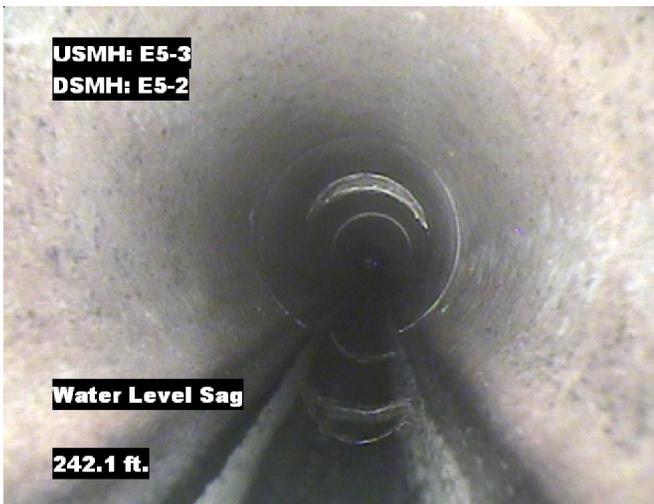
Pipe Segment Refere... <b>E5-3_E5-2</b>	<b>City</b> <b>Oliver Springs</b>	<b>Street</b> <b>Ridge View Dr</b>	<b>Material</b> <b>Concrete Pipe (non-...</b>		<b>Location C...</b> <b>Light High...</b>	<b>Sewer Use</b> <b>Sanitary</b>
<b>Upstream MH</b> <b>E5-3</b>	Total Length <b>290.7</b>	Year Laid	<b>Shape</b> <b>Circular</b>		Location Details <b>Street</b>	
<b>DS Manhole</b> <b>E5-2</b>	<b>Length surveyed</b> <b>290.7</b>	Year Renewed	<b>Height</b> <b>8</b>	Width <b>8</b>	Pipe Joint...	<b>4</b>



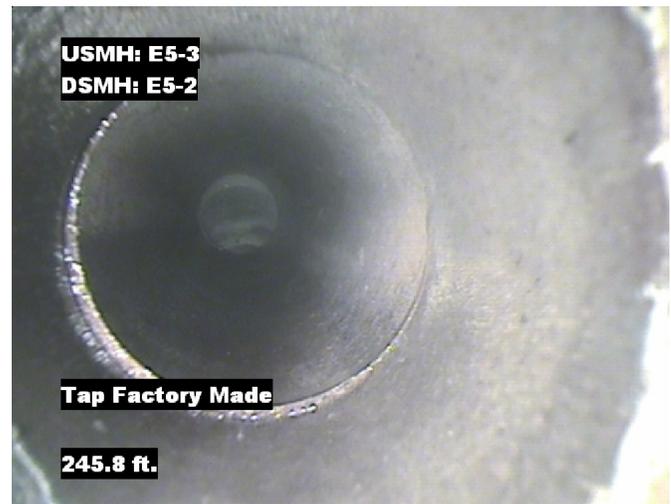
Distance: 198.8 ft.      Grade: 4  
 Condition: Infiltration Runner  
 Remarks: N/A



Distance: 208.4 ft.      Grade: 4  
 Condition: Infiltration Runner  
 Remarks: N/A



Distance: 242.1 ft.      Grade: 2  
 Condition: Water Level Sag  
 Remarks: N/A



Distance: 245.8 ft.      Grade: 0  
 Condition: Tap Factory Made  
 Remarks: N/A

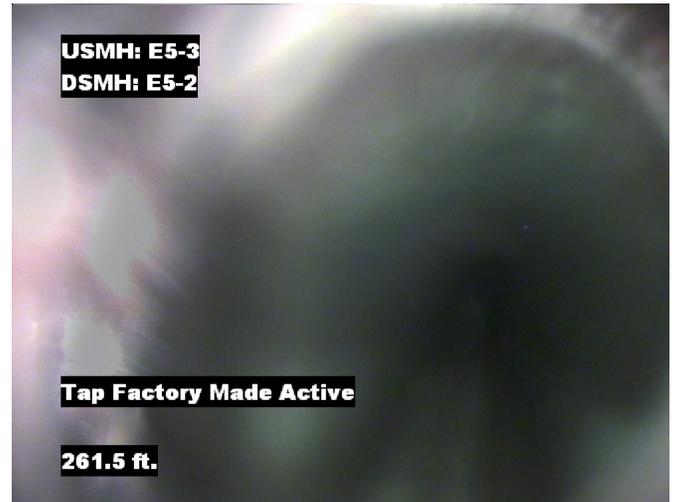


Image Report 4/Page

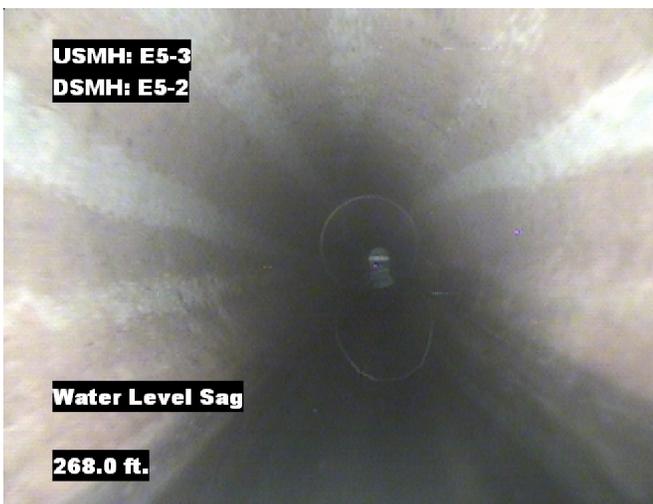
Pipe Segment Refere...	City	Street	Material	Location C...	Sewer Use
E5-3_E5-2	Oliver Springs	Ridge View Dr	Concrete Pipe (non-...	Light High...	Sanitary
Upstream MH	Total Length	Year Laid	Shape	Location Details	
E5-3	290.7		Circular	Street	
DS Manhole	Length surveyed	Year Renewed	Height	Width	Pipe Joint...
E5-2	290.7		8	8	4



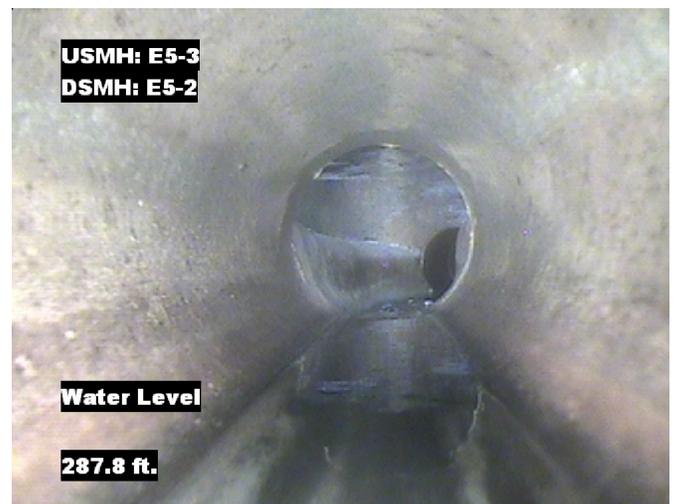
Distance: 258.7 ft.      Grade: 2  
 Condition: Water Level Sag  
 Remarks: N/A



Distance: 261.5 ft.      Grade: 0  
 Condition: Tap Factory Made Active  
 Remarks: N/A



Distance: 267.9 ft.      Grade: 2  
 Condition: Water Level Sag  
 Remarks: N/A



Distance: 287.8 ft.      Grade: 0  
 Condition: Water Level  
 Remarks: N/A



Image Report 4/Page

Pipe Segment Refere... <b>E5-3_E5-2</b>	<b>City</b> <b>Oliver Springs</b>	<b>Street</b> <b>Ridge View Dr</b>	<b>Material</b> <b>Concrete Pipe (non-...</b>		<b>Location C...</b> <b>Light High...</b>	<b>Sewer Use</b> <b>Sanitary</b>
<b>Upstream MH</b> <b>E5-3</b>	Total Length <b>290.7</b>	Year Laid	<b>Shape</b> <b>Circular</b>		Location Details <b>Street</b>	
<b>DS Manhole</b> <b>E5-2</b>	<b>Length surveyed</b> <b>290.7</b>	Year Renewed	<b>Height</b> <b>8</b>	Width <b>8</b>	Pipe Joint...	<b>4</b>



Distance:	290.7 ft.	Grade:	0
Condition:	Access Point Manhole		
Remarks:	E5-2		

