

**ROTO ROOTER**  
**PO BOX 3154**  
**BISMARCK ND 58502**  
**701-222-2653**

**Pipe Inspection Summary for Project: MIDWAY 14TH ADD. 2014-07**

Printed: September 30, 2014 3:30pm

**SUMMARY INFORMATION**

Total Number of Pipes .....	3
Total Pipe Footage .....	461.10
Total Inspected Pipe Footage .....	461.10
Total Uninspected Pipe Footage .....	0.00
Average Pipe Length .....	154
Total Estimated Pipe Joints .....	114
Total Number of Observations .....	9
Total Inch-Diameter-Miles .....	0.9
Total Leak Rate (gpm).....	0.0
Leakage Rate Per IDM .....	0.00

Pipe Filter for this Report (if any):

**FREQUENCY COUNT BY OBSERVATION**

<u>Observation</u>	<u>Count</u>
Inspection, End.....	1
Manhole, Downstream.....	3
Manhole, Upstream.....	2
Service, Connection.....	3
<b>Total Observation Count</b>	<b>9</b>

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**PIPE FOOTAGE BY TYPE, MATERIAL, AND SIZE**

**SANITARY SEWER - <No Shape>**

<b>Material</b>	<b>Size</b>	<b>Footage</b>
PVC	8.0	461.1
<b>Sanitary Sewer Total</b>		<b>461.1</b>
<b>Total All Pipe Types</b>		<b>461.1</b>

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**PIPE FOOTAGE BY TYPE, SIZE, AND MATERIAL**

**SANITARY SEWER - <No Shape>**

<u>Size</u>	<u>Material</u>	<u>Footage</u>
8.0	PVC	461.1
		<b>461.1</b>
<b>Sanitary Sewer Total</b>		<b>461.1</b>
<b>Total All Pipe Types</b>		<b>461.1</b>

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**PIPE COUNT AND FOOTAGE BY CONDITION RATING**

**SANITARY SEWER**

<b>Condition</b>	<b>Rating</b>	<b>Pipe Count</b>	<b>Footage</b>
Hydraulic	<Unknown>	3	461.1
Infiltration	<Unknown>	3	461.1
Maintenance	<Unknown>	3	461.1
Structural	<Unknown>	3	461.1

**Filter for this Report:**

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Pipe Data Report for Project: MIDWAY 14TH ADD. 2014-07

Printed: September 30, 2014 2:39pm

	Upstream Structure	Downstream Structure
Pipe Number .....	<b>MH 1</b>	<b>EX MH</b>
Pipe Type .....	Sanitary Sewer	
Address / Street .....		
Location .....		

**Inspection:**

Inspection Type .....	TV
Inspector(s) .....	CP
Starting Date/Time .....	9/30/2014 11:15:09AM
Ending Date/Time .....	9/30/2014 11:18:25AM
Weather Condition .....	Dry
Ground Condition .....	Dry
Surface Over Pipe .....	Bare Dirt
Percent (%) Paved .....	0
View Direction .....	With Flow

**Pipe:**

Pipe Material .....	PVC
Pipe Roughness .....	0.00
Pipe Slope .....	0.00
Pipe Diameter [in] .....	8
Total Pipe Length [ft] ...	68.9
Length Measured As .....	Structure Base Centers
Flow Depth [in] .....	0.00
Flow Direction .....	NW
Joint Spacing [ft] .....	0.0

**Video Tape ID .....**

Tape Start Index .....	
Tape End Index .....	

**Depth From Top of Structure to Invert: [ft]**

Upstream End .....	0.00
Downstream End .....	0.00

**Comments:**

\*\*None

**Supplemental Pipe Data:**

TV Contractor .....		Cond, Structural .....	
TV Operator ID .....		Cond, Hydraulic .....	
TV Contract # .....		Cond, Infiltration .....	
Pipe Shape .....		Cond, Maintenance .....	
Pipe Width [in] .....	8.00	TV Incomplete .....	No
Pipe Height [in] .....	8.00	Incomplete Reason .....	
Buildings to Left .....	0	Pipe Isolated .....	No
Buildings to Right .....	0	Weir GPD .....	0.0
Length, Map [ft] .....	0.0	Re-TV Required .....	No
Length, Rolatape [ft] .....	0.0	Reversal Required .....	No
Length, Contractor [ft] ..	0.0	Cleaning Required .....	No

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	<u>Upstream Structure</u>	<u>Downstream Structure</u>
Pipe Number .....	<b>MH 1</b>	<b>EX MH</b>

Ftg	End	Offset	Observation	Leak (gpm)	Rtng	Clk	Video
7.0			Manhole, Upstream				
68.9			Manhole, Downstream				

Total Number of Observations ..... 2  
Total Leakage (gpm)..... 0.0

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Pipe Data Report for Project: MIDWAY 14TH ADD. 2014-07

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	Upstream Structure	Downstream Structure
Pipe Number .....	<b>MH 2</b>	<b>MH 1</b>
Pipe Type .....	Sanitary Sewer	
Address / Street .....	ACTION AVE	
Location .....		

**Inspection:**

Inspection Type ..... TV  
 Inspector(s) ..... CP  
 Starting Date/Time ..... 9/30/2014 10:49:05AM  
 Ending Date/Time ..... 9/30/2014 10:58:30AM  
 Weather Condition ..... Dry  
 Ground Condition ..... Dry  
 Surface Over Pipe ..... Bare Dirt  
 Percent (%) Paved ..... 0  
 View Direction ..... With Flow

**Pipe:**

Pipe Material ..... PVC  
 Pipe Roughness ..... 0.00  
 Pipe Slope ..... 0.00  
 Pipe Diameter [in] ..... 8  
 Total Pipe Length [ft] ... 326.7  
 Length Measured As .... Structure Base Centers  
 Flow Depth [in] ..... 0.00  
 Flow Direction ..... SW  
 Joint Spacing [ft] ..... 0.0

**Video Tape ID .....**

Tape Start Index .....

Tape End Index .....

**Depth From Top of Structure to Invert: [ft]**

Upstream End ..... 0.00  
 Downstream End ..... 0.00

**Comments:**

\*\*None

**Supplemental Pipe Data:**

TV Contractor .....

TV Operator ID .....

TV Contract # .....

Pipe Shape .....

Pipe Width [in] ..... 8.00

Pipe Height [in] ..... 8.00

Buildings to Left ..... 0

Buildings to Right ..... 0

Length, Map [ft] ..... 0.0

Length, Rolatape [ft] .... 0.0

Length, Contractor [ft] .. 0.0

Cond, Structural .....

Cond, Hydraulic .....

Cond, Infiltration .....

Cond, Maintenance .....

TV Incomplete ..... No

Incomplete Reason .....

Pipe Isolated ..... No

Weir GPD ..... 0.0

Re-TV Required ..... No

Reversal Required ..... No

Cleaning Required ..... No

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	<u>Upstream Structure</u>	<u>Downstream Structure</u>
Pipe Number .....	<b>MH 2</b>	<b>MH 1</b>

Ftg	End	Offset Observation	Leak (gpm)	Rtng	Clk	Video
7.0		Manhole, Upstream				
52.4		Service, Connection			9	
80.9		Service, Connection			3	
243.7		Service, Connection			9	
326.7		Manhole, Downstream				

Total Number of Observations ..... 5  
Total Leakage (gpm)..... 0.0



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	Upstream Structure	Downstream Structure
Pipe Number .....	<b>MH 3</b>	<b>MH 2</b>
Pipe Type .....	Sanitary Sewer	
Address / Street .....	ACTION AVE	
Location .....		

**Inspection:**

Inspection Type ..... TV  
 Inspector(s) ..... CP  
 Starting Date/Time ..... 9/30/2014 10:59:09AM  
 Ending Date/Time ..... 9/30/2014 11:05:18AM  
 Weather Condition ..... Dry  
 Ground Condition ..... Dry  
 Surface Over Pipe ..... Bare Dirt  
 Percent (%) Paved ..... 0  
 View Direction ..... Against Flow

**Pipe:**

Pipe Material ..... PVC  
 Pipe Roughness ..... 0.00  
 Pipe Slope ..... 0.00  
 Pipe Diameter [in] ..... 8  
 Total Pipe Length [ft] ... 65.5  
 Length Measured As .... Structure Base Centers  
 Flow Depth [in] ..... 0.00  
 Flow Direction ..... W  
 Joint Spacing [ft] ..... 0.0

**Video Tape ID .....**

Tape Start Index .....  
 Tape End Index .....

**Depth From Top of Structure to Invert: [ft]**

Upstream End ..... 0.00  
 Downstream End ..... 0.00

**Comments:**

\*\*None

**Supplemental Pipe Data:**

TV Contractor .....	Cond, Structural .....
TV Operator ID .....	Cond, Hydraulic .....
TV Contract # .....	Cond, Infiltration .....
Pipe Shape .....	Cond, Maintenance .....
Pipe Width [in] ..... 8.00	TV Incomplete ..... No
Pipe Height [in] ..... 8.00	Incomplete Reason .....
Buildings to Left ..... 0	Pipe Isolated ..... No
Buildings to Right ..... 0	Weir GPD ..... 0.0
Length, Map [ft] ..... 0.0	Re-TV Required ..... No
Length, Rolatape [ft] .... 0.0	Reversal Required ..... No
Length, Contractor [ft] .. 0.0	Cleaning Required ..... No

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	<u>Upstream Structure</u>	<u>Downstream Structure</u>
Pipe Number .....	<b>MH 3</b>	<b>MH 2</b>

Ftg	End	Offset	Observation	Leak (gpm)	Rtng	Clk	Video
7.0			Manhole, Downstream				
65.5			Inspection, End C.O.				

Total Number of Observations ..... 2  
 Total Leakage (gpm)..... 0.0

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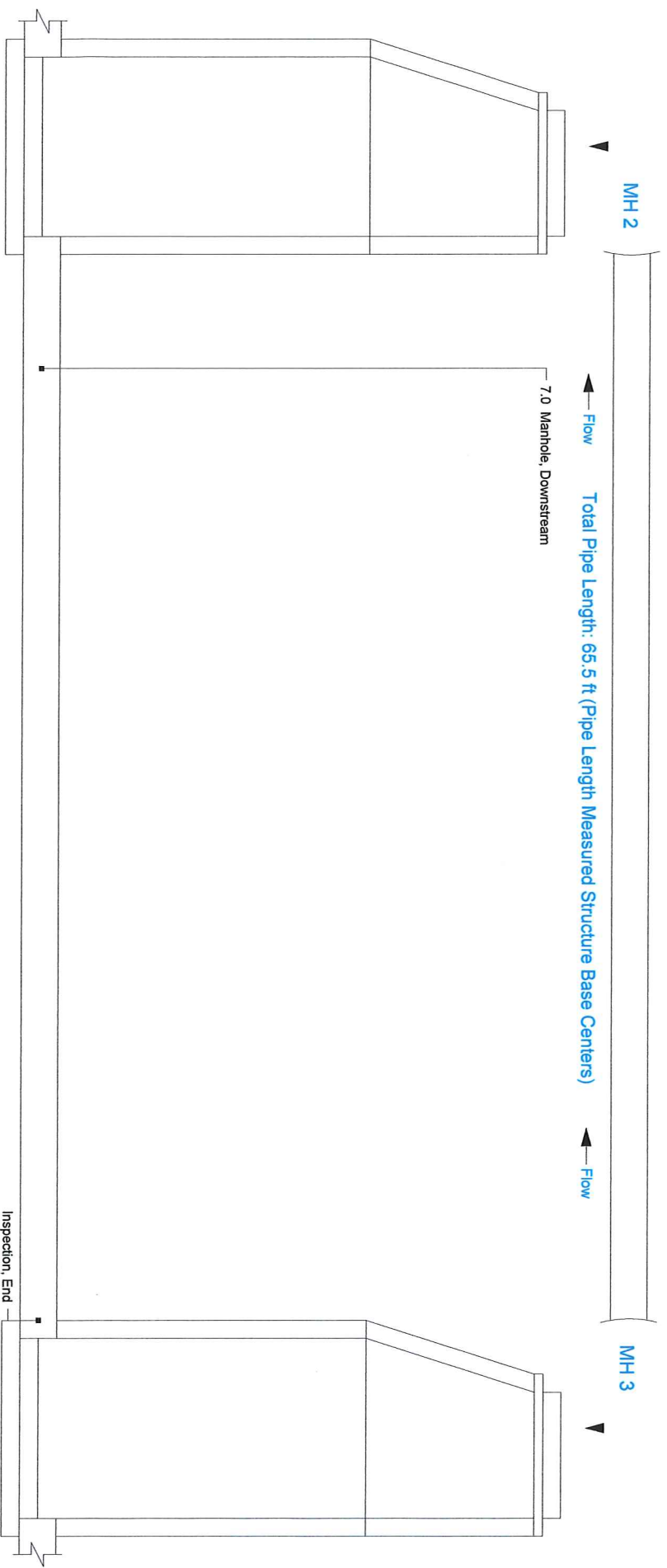
	<u>Upstream Structure</u>	<u>Downstream Structure</u>
Pipe Number .....	<b>MH 3</b>	<b>MH 2</b>

**Sort Order for this Report:**

Pipes.USStructureNumber, Pipes.DSStructureNumber, Pipes.StartDate DESC

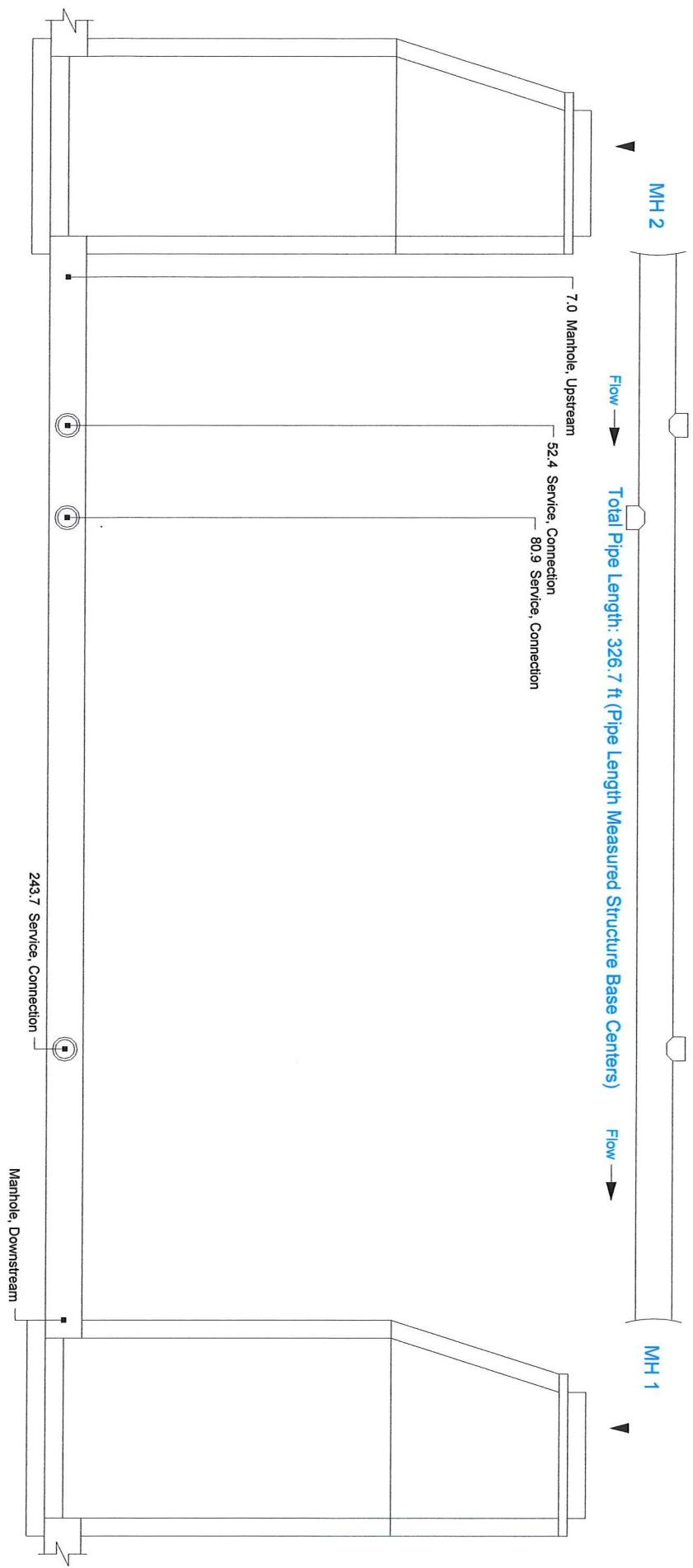
**Filter for this Report:**

SCHEMATIC CROSS SECTION (Not to Scale) - Sewer Reach: MH [MH 3] to MH [MH 2]



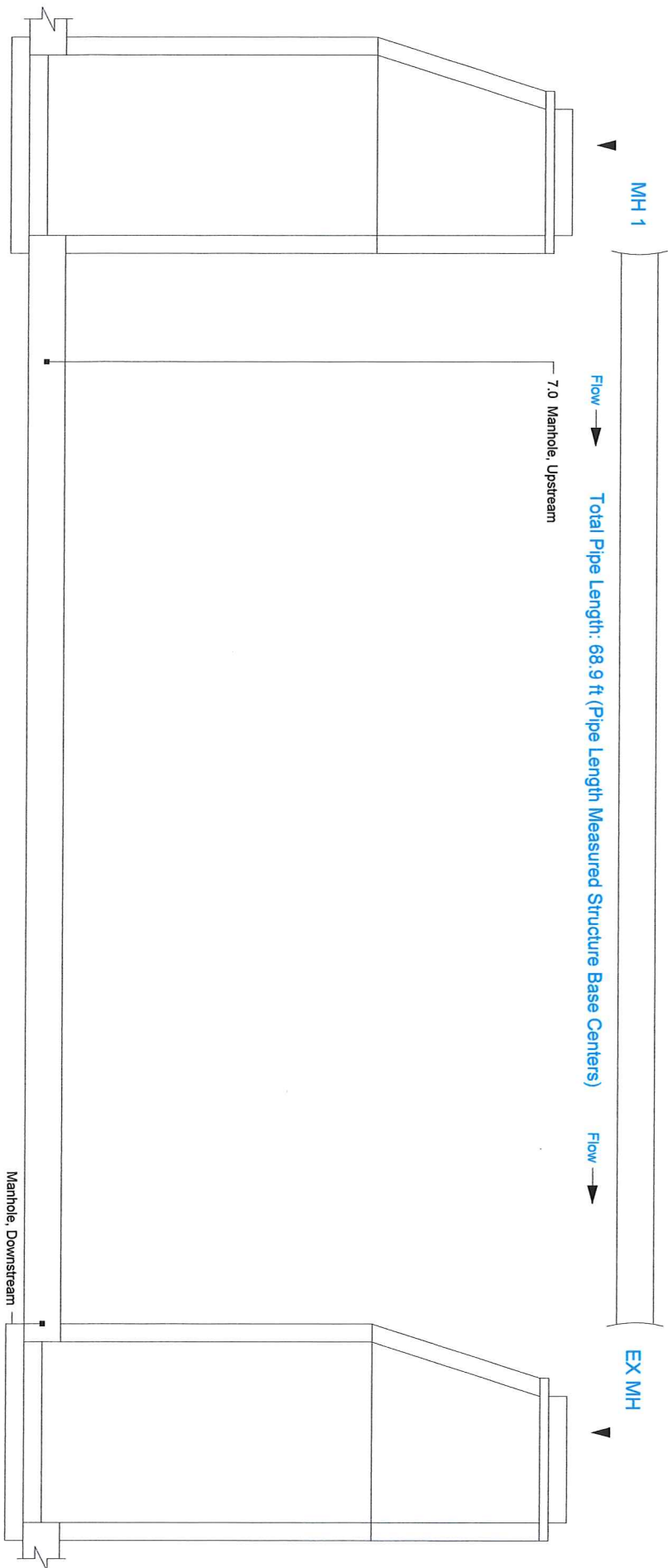
Project Name ..... MIDWAY 14TH ADD. 2014-07  
Street Name ..... ACTION AVE  
Inspection Date ..... 9/30/2014  
Pipe Type ..... Sanitary Sewer  
Pipe Size/Material ..... 8 in / PVC  
Pipe Length ..... 65.5 ft  
Joint Spacing ..... 0 ft  
Cover Type ..... Bare Dirt  
Condition S/H/M ..... / / /  
Comments:

**SCHEMATIC CROSS SECTION (Not to Scale) - Sewer Reach: MH [MH 2] to MH [MH 1]**



Project Name ..... MIDWAY 14TH ADD, 2014-07  
 Street Name ..... ACTION AVE  
 Inspection Date ..... 9/30/2014  
 Pipe Type ..... Sanitary Sewer  
 Pipe Size/Material ..... 8 in / PVC  
 Pipe Length ..... 326.7 ft  
 Joint Spacing ..... 0 ft  
 Cover Type ..... Bare Dirt  
 Condition S/H/M ..... / / /  
 Comments:

SCHEMATIC CROSS SECTION (Not to Scale) - Sewer Reach: MH [MH 1] to MH [EX MH ]



Project Name ..... MIDWAY 14TH ADD, 2014-07  
Street Name .....  
Inspection Date..... 9/30/2014  
Pipe Type ..... Sanitary Sewer  
Pipe Size/Material..... 8 in / PVC  
Pipe Length ..... 68.9 ft  
Joint Spacing ..... 0 ft  
Cover Type ..... Bare Dirt  
Condition S/H/I/M..... / / /  
Comments: