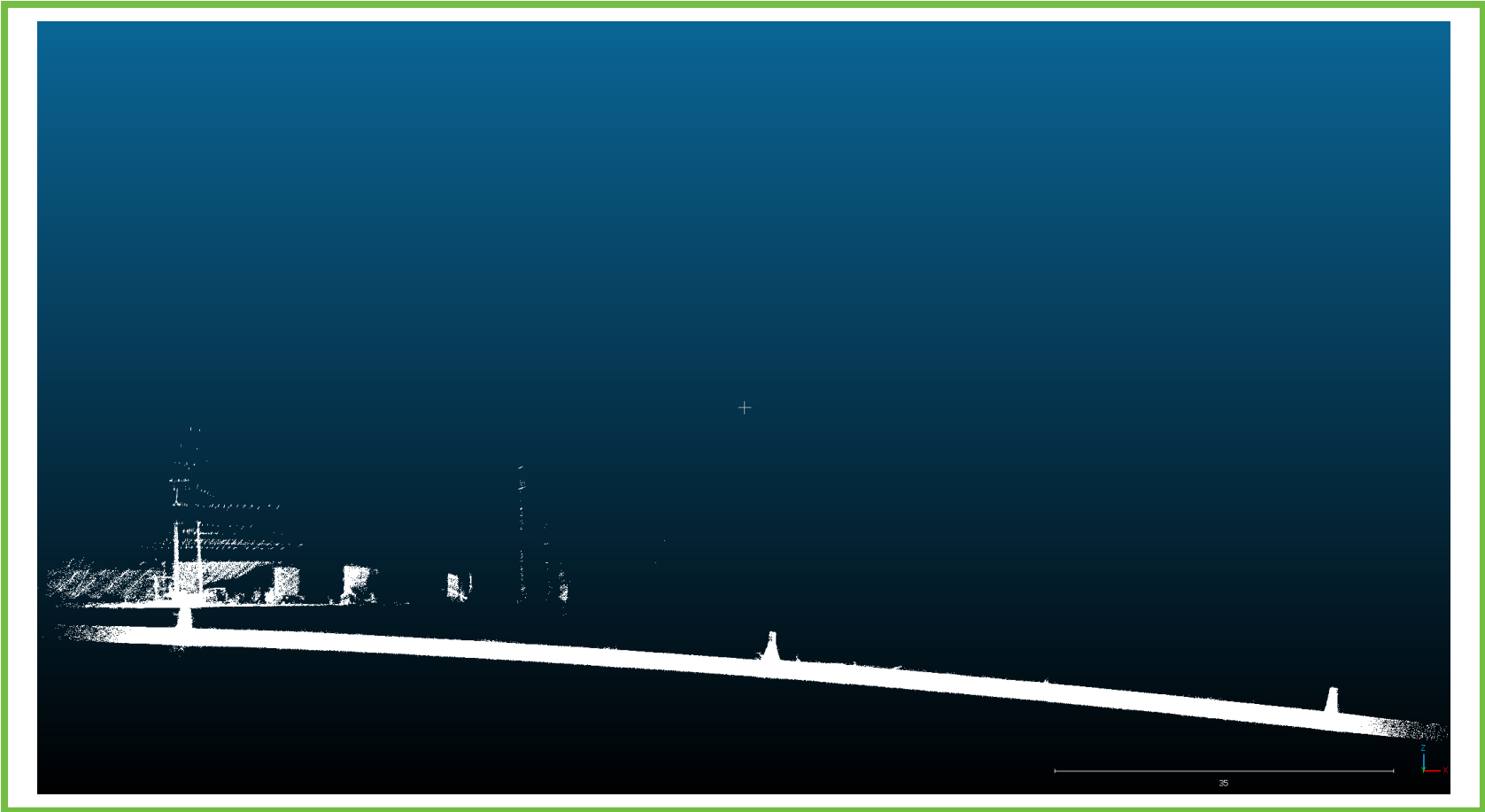
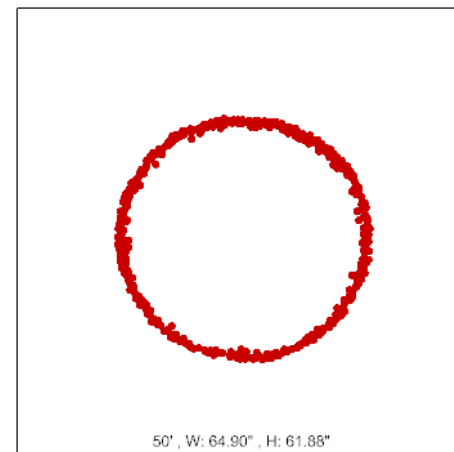
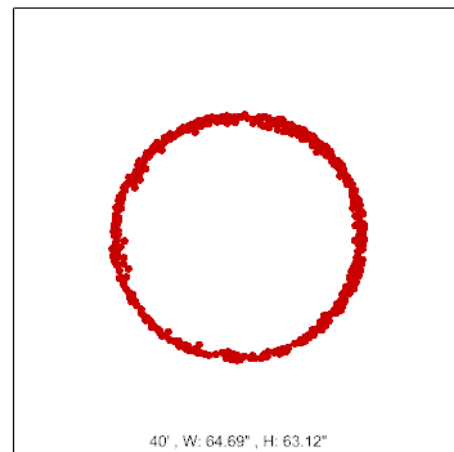
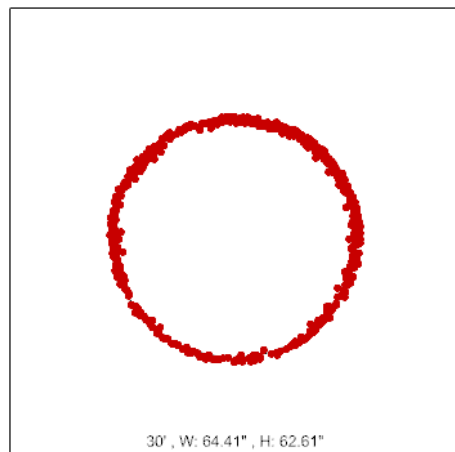
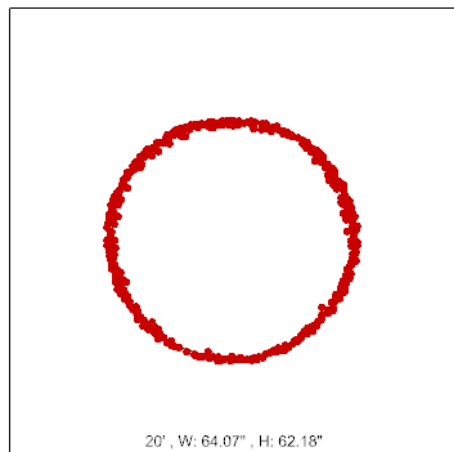
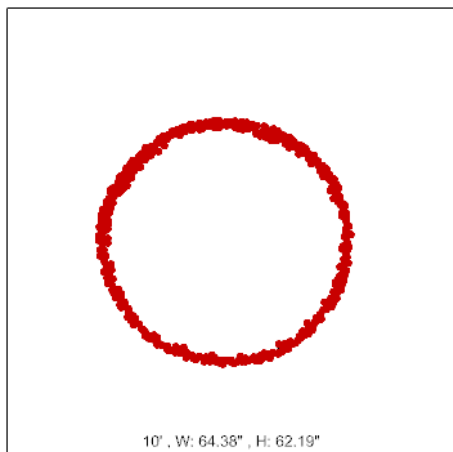




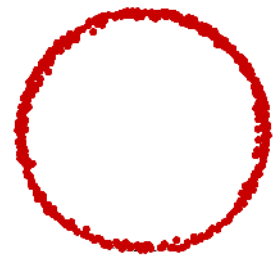
Inspection	Marion County, Ohio
US Manhole	9
DS Manhole	7A
Inspected	October 3, 2024
Platform	Aerial Drone
Sensor	3D Lidar
Report Date	October 29, 2024



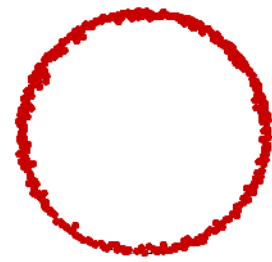




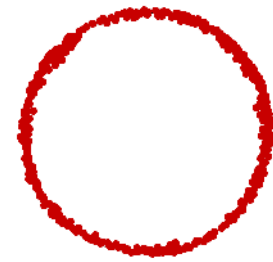
60° , W: 64.67" , H: 63.09"



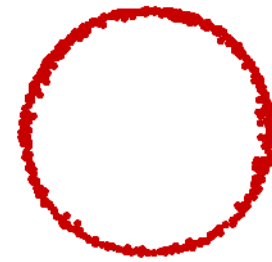
70° , W: 64.35" , H: 62.79"



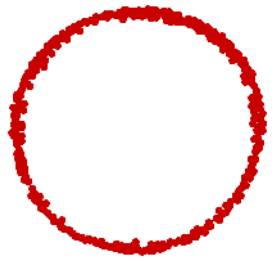
80° , W: 64.60" , H: 63.17"



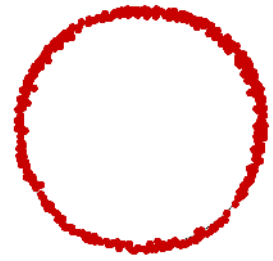
90° , W: 64.17" , H: 63.40"



100° , W: 64.20" , H: 64.26"



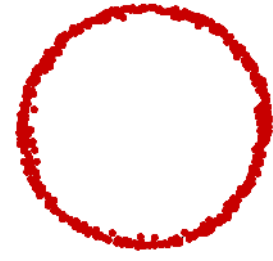
110° , W: 64.59" , H: 62.20"



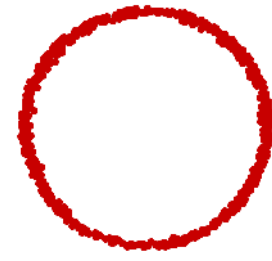
120° , W: 64.12" , H: 62.83"



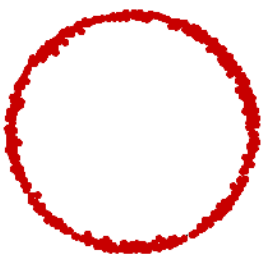
130° , W: 64.13" , H: 62.72"



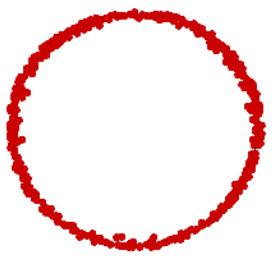
140° , W: 64.00" , H: 61.97"



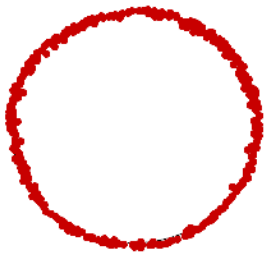
150° , W: 64.04" , H: 61.41"



160° , W: 64.41" , H: 61.61"



170° , W: 65.19" , H: 60.72"



180° , W: 65.21" , H: 61.11"



190° , W: 65.13" , H: 61.69"



200° , W: 68.23" , H: 77.07"



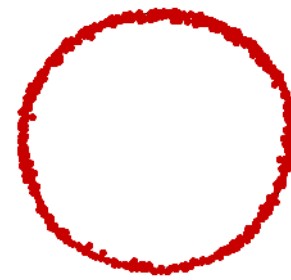
210' , W: 70.39" , H: 66.72"



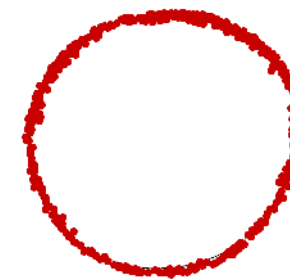
220' , W: 69.63" , H: 67.39"



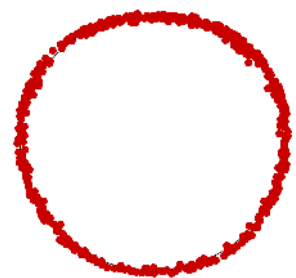
230' , W: 70.67" , H: 67.84"



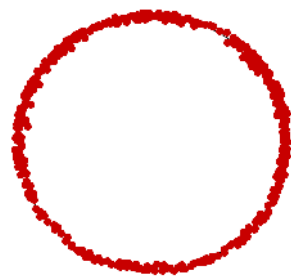
240' , W: 71.08" , H: 67.15"



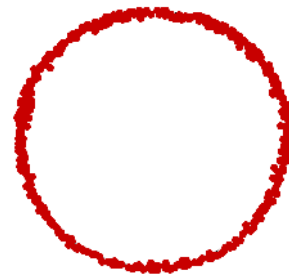
250' , W: 70.97" , H: 67.20"



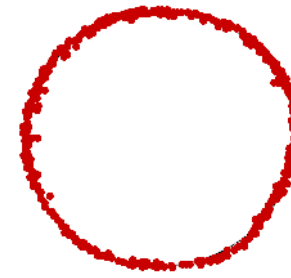
260' , W: 70.30" , H: 67.42"



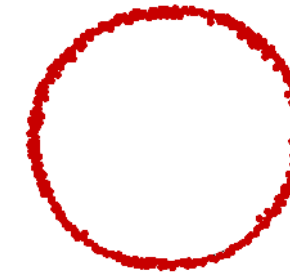
270' , W: 70.63" , H: 66.96"



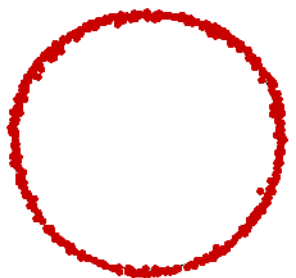
280' , W: 70.78" , H: 67.26"



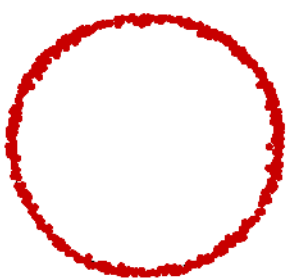
290' , W: 70.76" , H: 67.29"



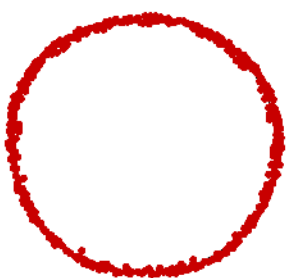
300' , W: 70.72" , H: 66.64"



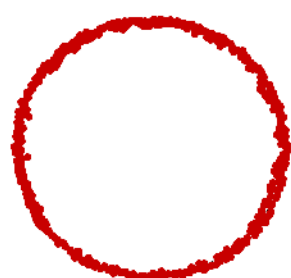
310' , W: 71.04" , H: 67.63"



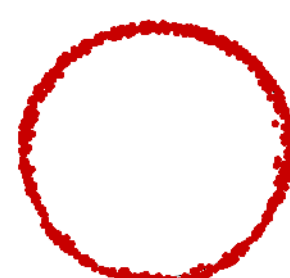
320' , W: 70.93" , H: 67.06"



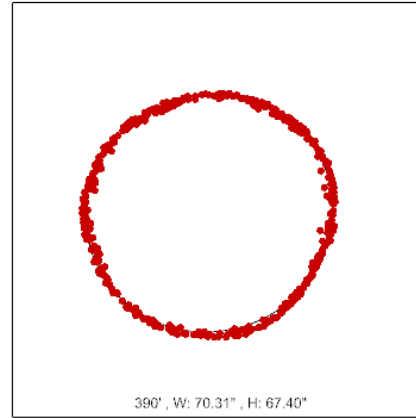
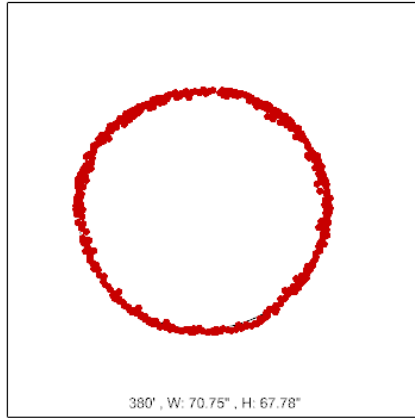
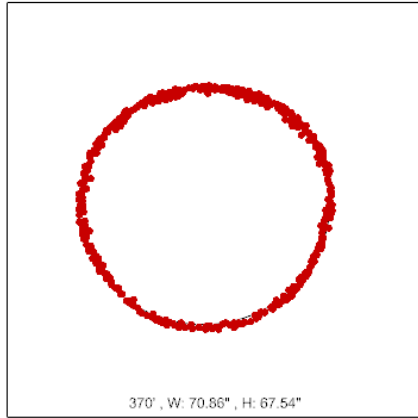
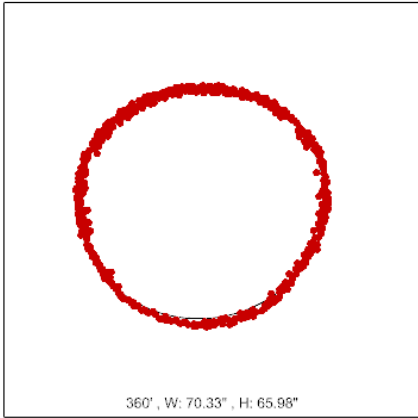
330' , W: 70.86" , H: 67.50"



340' , W: 70.37" , H: 67.26"



350' , W: 69.99" , H: 66.60"



INSPECTION HEADER

DATE: 10/4/2024
PIPE SEG REF. MH 8 - MH 7A
UP MH: MH 8
DOWN MH: MH 7A

SUMMARY

Inspection Date 10/4/2024 12:00 AM	Pipe Segment Reference MH 8 - MH 7A	Surveyed By SHAWN DUNNELL	Certificate Number U-915-70001437
Project 2420053PW	Street SILVER ST	Upstream MH MH 8	Downstream MH MH 7A
Direction Upstream	Pre-Cleaning No Pre-Cleaning	Total Length (ft)	Length Surveyed (ft) 192

ASSET

Height (mm) 72	Shape Circular	Material BR	Pipe Use Combined Pipe
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PROJECT

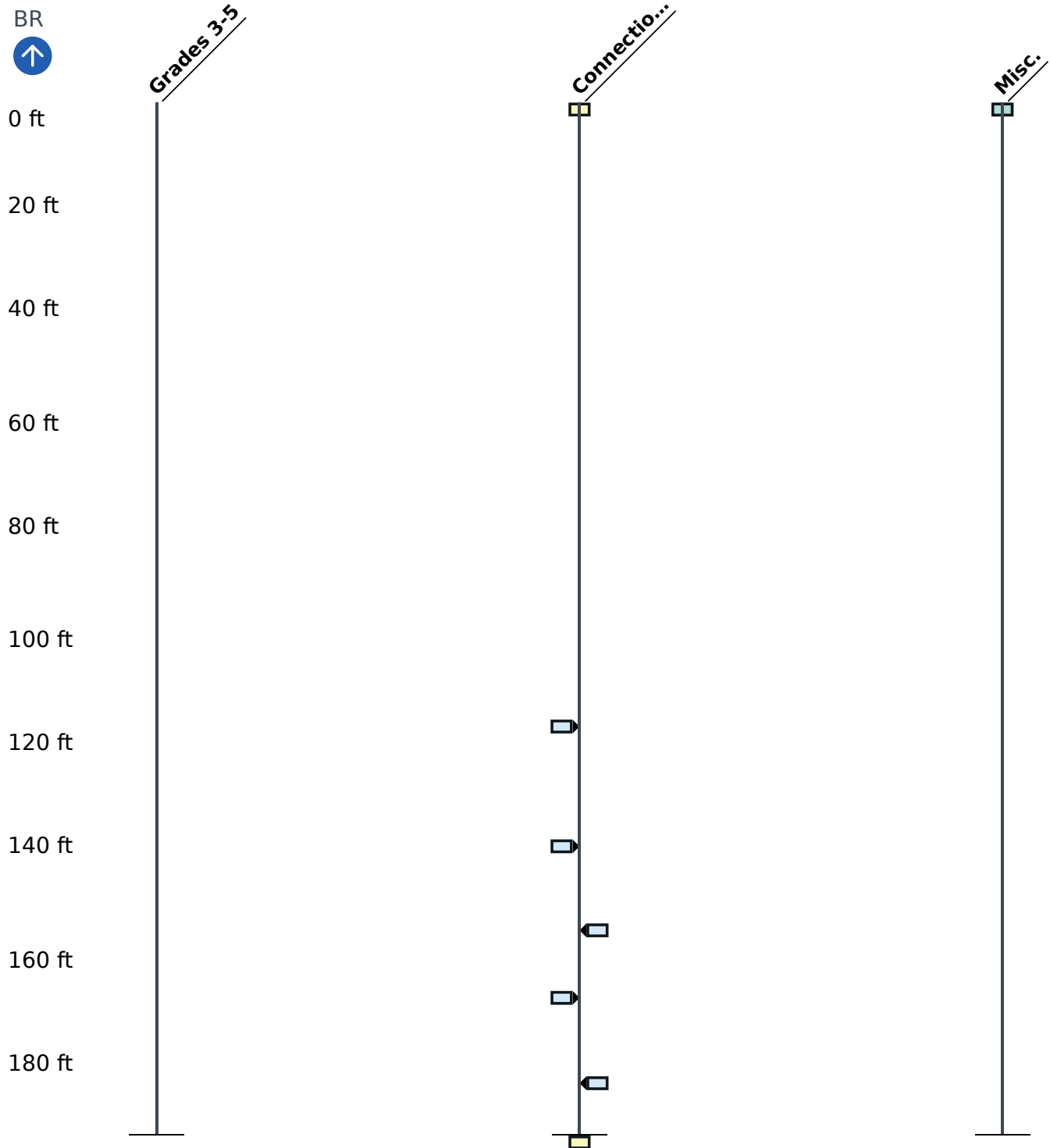
Owner CITY OF MARION	Customer CT CONSULTANTS
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INSPECTION

Inspection Time 12:00 AM	City MARION	Inspection Status CI	In Feet (Imperial) Yes
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SMART DIAGRAM

DATE: 10/4/2024
PIPE SEG REF. MH 8 - MH 7A
UP MH: MH 8
DOWN MH: MH 7A



[View on Pioneer Web](#)

DATE: 10/4/2024
PIPE SEG REF. MH 8 - MH 7A
UP MH: MH 8
DOWN MH: MH 7A

OBSERVATIONS

Dist	Time	Description	Code	Clock	Dim. 1	Dim. 2	%	Remarks	Cont.	Grade
0	0:02	Manhole	AMH	-	-	-	-	MH 7A	-	-
0	0:08	Miscellaneous Water Level	MW	-	-	-	5	-	-	-
0	0:08	Miscellaneous General Observation...	MOG	-	-	-	-	136 FT OFFS ET	-	-
114.6	0:54	Tap Break-in Activity	TBA		24	-	-	-	-	-
136.9	1:11	Tap Break-in Intruding	TBI		6	3	-	-	-	2
152.5	1:26	Tap Break-in/Hammer	TB		6	-	-	-	-	-
165.1	1:43	Tap Break-in/Hammer	TB		6	-	-	-	-	-
181	1:53	Tap Break-in/Hammer	TB		6	-	-	-	-	-
192	1:57	Manhole	AMH	-	-	-	-	MH 8	-	-

OBSERVATION SNAPSHOTS

DATE: 10/4/2024
PIPE SEG REF. MH 8 - MH 7A
UP MH: MH 8
DOWN MH: MH 7A



AMH

0 ft



MWL

0 ft



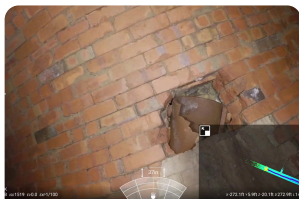
MGO

0 ft



TBA

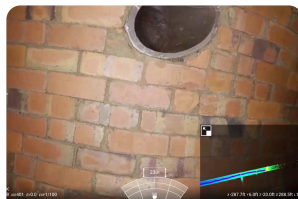
114.6 ft 2:00



TBI

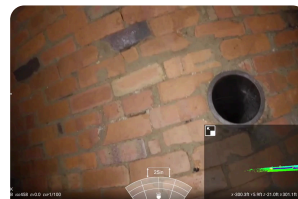
2

136.9 ft 3:00



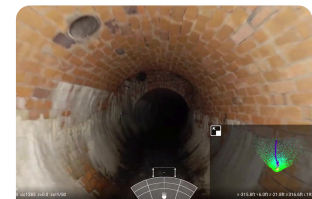
TB

152.5 ft 10:00



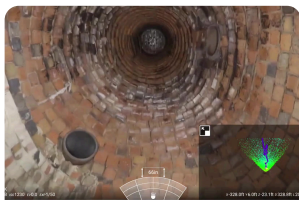
TB

165.1 ft 2:00



TB

181 ft 10:00



AMH

192 ft

DATE: 10/4/2024
PIPE SEG REF. MH 8 - MH 7A
UP MH: MH 8
DOWN MH: MH 7A

RATINGS

PIPE RATING INDEX	Overall	Structural	O&M
	(2)		(2)

Sum of all graded conditions divided by the total number of conditions. 0-5 scale.

PIPE RATING	Overall	Structural	O&M
	2	0	2

Sum of all graded conditions.

QUICK RATING	Overall	Structural	O&M	Likelihood of Failure
	(21)(00)	(00)(00)	(21)(00)	
	2.1			

First digit is highest graded condition. Second digit is count of those conditions (A = 10-14, B = 15-19, etc.). Third digit is second-highest graded condition. Fourth digit is count of those conditions. LoF is Quick Rating divided by 10 (scale from 0-6).

FREQUENCY OF CONDITION GRADES	Grade	1	2	3	4	5
	#	0	1	0	0	0

Count of each condition grade in the inspection.

INSPECTION HEADER

DATE: 10/3/2024
PIPE SEG REF. MH 9 - MH 8
UP MH: MH 9
DOWN MH: MH 8

SUMMARY

Inspection Date 10/3/2024 12:00 AM	Pipe Segment Reference MH 9 - MH 8	Surveyed By SHAWN DUNNELL	Certificate Number U-915-70001437
Project 2420053PW	Street SILVER ST	Upstream MH MH 9	Downstream MH MH 8
Direction Downstream	Pre-Cleaning No Pre-Cleaning	Total Length (ft)	Length Surveyed (ft) 189.3

ASSET

Height (mm) 72	Shape Circular	Material BR	Pipe Use Combined Pipe
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PROJECT

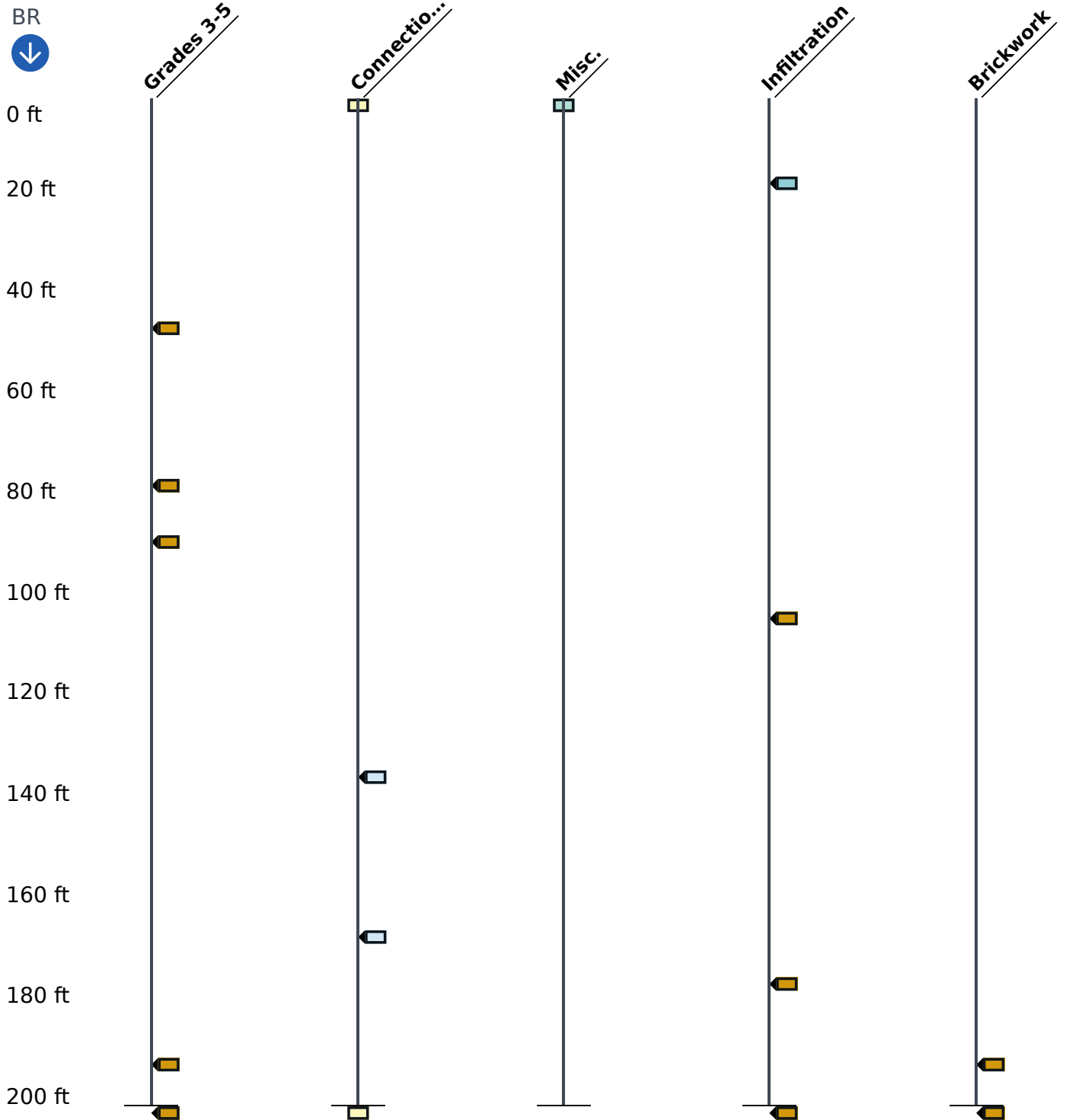
Owner CITY OF MARION	Customer CT CONSULTANTS
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INSPECTION

Inspection Time 12:00 AM	City MARION	Inspection Status CI	In Feet (Imperial) Yes
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DATE: 10/3/2024
 PIPE SEG REF. MH 9 - MH 8
 UP MH: MH 9
 DOWN MH: MH 8

SMART DIAGRAM



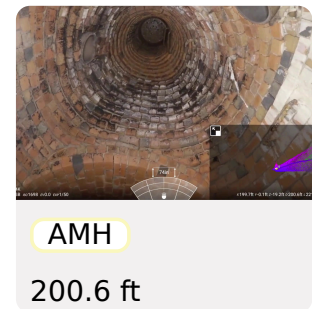
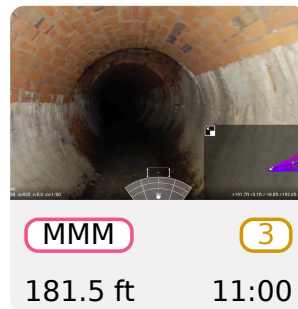
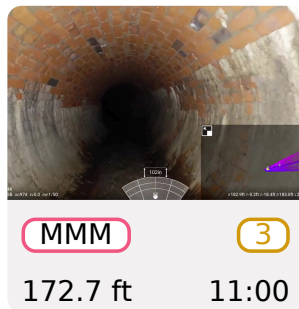
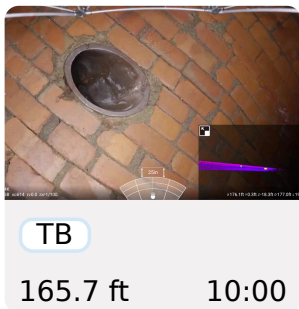
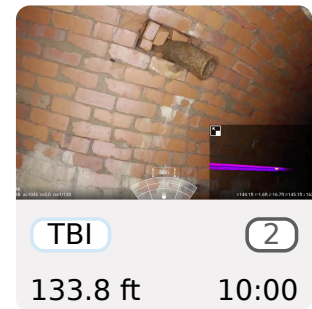
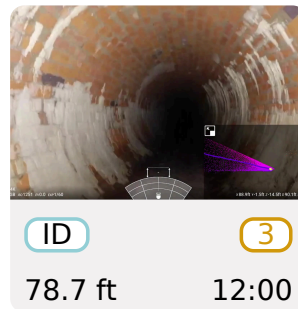
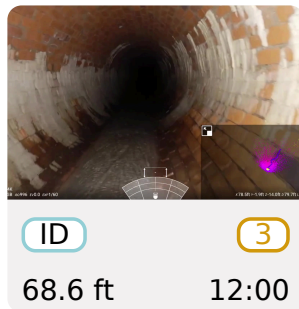
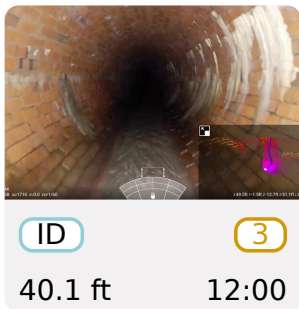
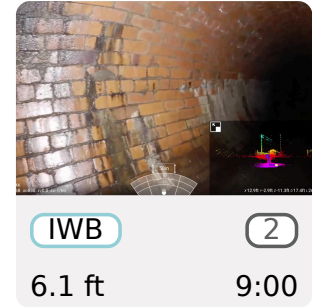
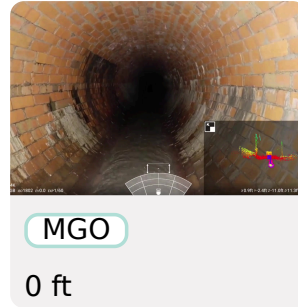
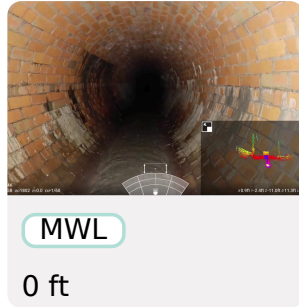
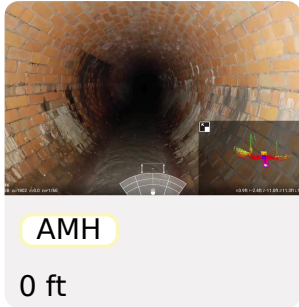
DATE: 10/3/2024
PIPE SEG REF. MH 9 - MH 8
UP MH: MH 9
DOWN MH: MH 8

OBSERVATIONS

Dist	Time	Description	Code	Clock	Dim. 1	Dim. 2	%	Remarks	Cont.	Grade
0	0:13	Manhole	AMH	-	-	-	-	MH 9	-	-
0	0:13	Miscellaneous Water Level	MWL	-	-	-	5	-	-	-
0	0:13	Miscellaneous General Observatio...	MOG	-	-	-	-	OFFSET 11.3	-	-
6.1	0:22	Infiltration Weeper Barrel	IWB		-	-	-	-	-	2
40.1	0:52	Infiltration Dripper	ID		-	-	-	-	-	3
68.6	1:05	Infiltration Dripper	ID		-	-	-	-	-	3
78.7	1:12	Infiltration Dripper	ID		-	-	-	-	-	3
133.8	1:47	Tap Break-in Intruding	TBI		4	6	-	-	-	2
165.7	2:09	Tap Break-in/Hammer	TB		6	-	-	-	-	-
172.7	2:20	Missing Mortar Medium	MM		-	-	-	-	S01	3
181.5	2:24	Missing Mortar Medium	MM		-	-	-	-	F01	3
200.6	2:30	Manhole	AMH	-	-	-	-	MH 8	-	-

OBSERVATION SNAPSHOTS

DATE: 10/3/2024
 PIPE SEG REF. MH 9 - MH 8
 UP MH: MH 9
 DOWN MH: MH 8



DATE: 10/3/2024
PIPE SEG REF: MH 9 - MH 8
UP MH: MH 9
DOWN MH: MH 8

RATINGS

PIPE RATING INDEX	Overall 2.7	Structural 3	O&M 2.6
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Sum of all graded conditions divided by the total number of conditions. 0-5 scale.

PIPE RATING	Overall 19	Structural 6	O&M 13
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Sum of all graded conditions.

QUICK RATING	Overall 35 22	Structural 32 00	O&M 33 22	Likelihood of Failure 3.5
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First digit is highest graded condition. Second digit is count of those conditions (A = 10-14, B = 15-19, etc.). Third digit is second-highest graded condition. Fourth digit is count of those conditions. LoF is Quick Rating divided by 10 (scale from 0-6).

FREQUENCY OF CONDITION GRADES	Grade #	1 0	2 2	3 5	4 0	5 0
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Count of each condition grade in the inspection.