

**West Manchester Township
Invitation to Bid
for the
Rainbow Circle Area Stormwater Phase 3 Repairs Project**

Proposals for construction services will be received by West Manchester Township (Township) for the open cut replacement of stormwater pipes in the area of Rainbow Cir until 11:00 AM prevailing time November 7, 2025. Existing conditions drawing, a description of the project scope, and inspection reports related to the pipes in question are available to be picked up at the Township Office at 380 East Berlin Road York, PA 17408 or through the Township website.

The existing conditions drawing depicts the area in which the work will be conducted. The work of the Rainbow Circle project is considered stormwater repair work and no plans depicting the scope will be provide. Approximately, 226 linear feet (LF) of pipe and two (2) inlet catch basins will be replaced as part of the work. The selected bidder will also install an end wall, be responsible for all erosion and sediment control, and any needed traffic control.

The work will include replacing the existing pipes with approximately 492 LF of 24-inch high density polyethylene (HDPE) smooth-lined corrugated plastic pipe (SLCPP) between inlet I-10 to I-11 and I-11 to an outfall. The existing pipe, which is 36-inch by 48-inch corrugate metal pipe (CMP) will be replaced by two (2) side-by-side 24-inch HDPE SLCP. All pipe replacements will be completed by open cut replacement. The Township will provide all the HDPE pipe, all the inlets, and the endwall. The contractor will be responsible for providing all other material relating to the construction of the project.

Inlet I-11 shall be replaced with a catch basin having pipe inverts at 432.62 feet above sea level (FASL) entering and 432.62 feet FASL exiting. The existing inlet I-11 pipe inverts are at 432.62 and 432.48 FASL. Inlet I-10 shall be replaced with a catch basin having pipe inverts at 434.14 feet FASL entering and 433.95 FASL exiting. The existing inlet I-10 pipe inverts are at 434.14 and 433.95 FASL. The top of all inlets shall be set at the elevation of the existing inlets, and the immediate area shall be graded toward the inlet. There is fencing around one of the properties in between I-10 and I-11. If this or any other existing features are disturbed during the work, such shall be replaced by the contract at no additional cost to the Township.

An end wall, EW-1, shall be added at the end of the last pipe. The end wall shall be installed with the pipe invert at 431.26 FASL. The current discharge is at 431.26 FASL, though the bottom of the pipe is eroded. The end wall shall be placed approximately 5 feet back from the end of the existing pipe and the area between the end wall and existing discharge shall be lined with R-5 rip rap. Any disturbed grass area shall be restored with seeding, mulch and matting. Placement of matting shall conform to PennDot Publication 408 specification.

Pavement shall conform to PennDOT Publication 408 Specifications. At a minimum, pavement repairs shall be a 6" PennDOT 2A Modified base, 5" Superpave base course asphalt (PG 64s-22, 3.0-10.0 million ESALs, 25.0 mm mix), 2.5" Superpave binder course asphalt (PG 64s-22, 3.0-10.0 million ESALs, 19.0 mm mix), and 1.5" Superpave wear course asphalt (PG 64s-22, 3.0-10.0 million ESALs, 9.5 mm mix, SRL: G). If the existing pavement is determined to conform to a less stringent standard, as determined by the Township, the contractor may restore to match the existing pavement. When the pavement is restored, contractors shall sawcut for the full depth of pavement 8" beyond any visible cracks, remove the cut pavement, cut and remove the wear course an additional 8" beyond that, and place asphalt sealant at all joins including the overlapping wear course when restoring pavement.

There is a CCTV inspection report attached with descriptions for bidders' reference. Bidders are encouraged to visit the site and can do so by appointment. Direct any such requests or questions about the project to Richard Shaw, Public Works Director, at 717.792.3505 or by email at rshaw@wmtwp.com. Bidders should contact the same to indicate they are considering submitting a proposal to complete the work so the Township or their engineer can maintain a list of prospective bidders and provide any updates to all interested parties.

Bidders should provide in their proposal a description of their availability and indication whether they could complete the work and invoice the Township before the end of the year. Bidders should include their standard terms and conditions with their proposal as well as a non-collusion affidavit and insurance certificate. The Township reserves the right to request additional clarification after receipt of bids. No bids will be accepted after the date and time stipulated in the first paragraph of this notice. The lowest and most qualified bidder will be awarded the project. The Township reserves the right to waive any irregularities in the bids.

Notice is hereby given to Contractors that Public Works Projects, including construction, reconstruction, demolition, alteration and/or repair work, other than maintenance work, paid for in whole or in part out of the funds of the Public body, where the estimated cost of the total project is in excess of Twenty-Five Thousand Dollars (\$25,000.00), not including work performed under a rehabilitation or manpower training program, shall be subject to the Pennsylvania Prevailing Wage Act. The estimated cost of this project is more than Twenty-Five Thousand Dollars (\$25,000.00) and therefore, the Pennsylvania Prevailing Wage Act is anticipated to be applicable.

This project falls under The Commonwealth of Pennsylvania enacted Act 127 of 2012, known as the Public Works Employment Verification Act (the Act) which requires all public work contractors and subcontractors to utilize the Federal Government's E-Verify system to ensure that all employees performing work on public work projects are authorized to work in the United States. All bidders are required to submit a Public Works Employment Verification Form as a precondition for award of the work.

West Manchester Township, in accordance with Title VI of the U.S. Civil Rights Act of 1964 and Parts 21 and 23 of 49 C.F.R., notifies all respondents that it will affirmatively ensure that MBE/WBE will be afforded full opportunity to submit proposals in response to this invitation and that no person will be discriminated against on the grounds of race, color, sex, or national origin in consideration for an award. Similarly, the successful bidder shall in no manner discriminate against or intimidate any employee involved in the manufacture of supplies, the performance of work, or any other activity required under the contract on account of gender, race, creed or color. Work must be performed to ensure that non-discrimination/sexual harassment provision of the CFA are met.

NON-COLLUSION AFFIDAVIT

Commonwealth/State of: _____

County of: _____

PROJECT: West Manchester Township- Rainbow Circle Area Stormwater Phase 3 Repairs Project

The undersigned, being duly sworn on oath says that he is the contracting party or that he is the representative, agent, member, or officer of the contracting party, that he has not, nor has any other member, employee, representative, agent or office of the firm, company, corporation or partnership represented by him, directly or indirectly, entered into or offered to enter into any combination, collusion or agreement to receive or pay, and that he has not received or paid, any sum of money or other consideration for the execution of the agreement/contract other than that which appears upon the face of the agreement/contract.

_____ Signature	_____ Date	_____ Company
_____ Printed Name	_____ Title	

Commonwealth/State of: _____

County of: _____

Subscribed and sworn before me this _____ day of _____, 20____.

Notary Public

My Commission Expires

1. TOPOGRAPHIC & BOUNDARY INFORMATION IS BASED ON FIELD SURVEYS PERFORMED BY DAWOOD ENGINEERING, INC. IN NOVEMBER AND DECEMBER 2002.
2. VERTICAL DATUM IS BASED ON NAVD 88 GEOID 1988.
3. PLAN BEARING BASE IS REFERENCED TO SOUTH ZONE NAD 83, CONUS.
4. DAWOOD ENGINEERING, INC., DOES NOT WARRANT THE EXISTENCE OR NONEXISTENCE OF SUBSURFACE UTILITIES, INCLUDING BUT NOT LIMITED TO, THE PRESENCE OF ACTIVE OR ABANDONED FOUNDATIONS, CESSPOOLS, WELLS, CISTERNS, BURIED TANKS, BURIED UTILITIES, ETC. THAT MAY ENCUMBER CONSTRUCTION OR OTHER USE OF THIS SITE. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY ALL SUBSURFACE CONDITIONS AS PART OF THE WORK.
5. IN COMPLIANCE WITH ACT 287 OF 1974 AS AMENDED BY ACT 199 OF 2004, ALL UNDERGROUND UTILITIES SHOWN ON THIS PLAN ARE A COMPILED OF ACTUAL FIELD DATA AND DATA FROM PUBLIC RECORDS. HOWEVER, FOR OTHERS, THE TOWNSHIP, SURVEYOR AND ENGINEER ASSUME NO RESPONSIBILITY FOR THE LOCATION OF ANY UNDERGROUND UTILITIES AS DEPICTED ON THIS DRAWING. ANY REQUEST FOR INFORMATION REGARDING THE LOCATION OF UTILITIES SHOULD BE DIRECTED TO THAT RESPECTIVE UTILITY COMPANY. SEE ONE CALL TABLE FOR SERIAL NUMBERS. THE CONTRACTOR SHALL CONTACT PA ONE-CALL (1-800-242-1776) AT LEAST THREE (3) DAYS BEFORE THE START OF THE PROJECT.
6. THE PROJECT DRAWINGS ARE GENERALLY DIAGRAMMATIC IN INDICATING THE PRESENCE OF EXISTING UNDERGROUND UTILITIES. INFORMATION ON EXISTING UTILITIES HAS BEEN COMPILED FROM AVAILABLE INFORMATION INCLUDING UTILITY COMPANY AND MUNICIPAL RECORDS. THE CONTRACTOR SHALL OBTAIN GUARANTEED, CORRODED OR COMPLETE UTILITIES AND ARE SHOWN TO ALERT THE CONTRACTOR TO THEIR PRESENCE AND THE CONTRACTOR IS SOLELY RESPONSIBLE FOR DETERMINING ACTUAL LOCATIONS AND DEPTHS OF ALL UTILITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY TO BE LEFT IN PLACE, THE CONTRACTOR SHALL PROVIDE ADEQUATE MEANS OF SUPPORT AND PROTECTION DURING THE EXCAVATION AND BACKFILLING OPERATIONS.
7. AT ANY CROSSING OF EXISTING UNDERGROUND UTILITIES, THE CONTRACTOR SHALL PROVIDE ADEQUATE PROTECTION TO THE EXISTING UTILITIES.
8. SHOULD ANY UNCHARTED OR INCORRECTLY CHARTED EXISTING PIPING OR OTHER UTILITY BE UNCOVERED DURING EXCAVATION, CONSULT THE TOWNSHIP IMMEDIATELY FOR DIRECTIONS BEFORE PROCEEDING FURTHER WITH THE WORK IN THIS AREA.
9. DO NOT INTERRUPT EXISTING UTILITIES SERVING FACILITIES OCCUPIED AND USED BY OTHERS. IF OTHERS DURING REQUIRED HOURS EXCEPT WHEN SUCH INTERRUPTIONS HAVE BEEN AUTHORIZED IN WRITING BY THE OWNER, TOWNSHIP AND APPLICABLE UTILITY COMPANY, INTERRUPTIONS SHALL ONLY OCCUR AFTER ACCEPTABLE NOTICE HAS BEEN PROVIDED BY THE SERVICE HAS BEEN PROVIDED.
10. THE CONTRACTOR SHALL VERIFY ALL SITE CONDITIONS IN THE FIELD AND CONTACT THE TOWNSHIP IF THERE ARE ANY QUESTIONS OR CONFLICTS REGARDING THE SCOPE OF WORK AND/OR FIELD CONDITIONS.
11. THE CONTRACTOR IS RESPONSIBLE FOR ENSURING ALL CONSTRUCTION METHODS AND PROCEDURES COMPLY WITH ALL APPLICABLE REGULATIONS.
12. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING ALL PROPOSED WORK WITH THE APPROPRIATE UTILITY COMPANY PRIOR TO START OF CONSTRUCTION.
13. THE CONTRACTOR SHALL IMPLEMENT EROSION AND SEDIMENTATION POLLUTION CONTROL MEASURES IN ACCORDANCE WITH PA STATE CODE CHAPTER 102 REQUIREMENTS.
14. ALL STORM SEWER CONSTRUCTION METHODS AND MATERIALS SHALL CONFORM TO THE LATEST STANDARDS OF THE WEST MANCHESTER TOWNSHIP MATERIAL & CONSTRUCTION SPECIFICATIONS, AND SHALL BE SUBJECT TO APPROVAL BY THE TOWNSHIP ENGINEER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND RIGHT-OF-WAYS HAVE BEEN SHOWN ON THE PLAN.
15. THE CONTRACTOR AND ANY SUBCONTRACTORS SHALL REMOVE FROM THE SITE, RECYCLE OR DISPOSE OF ALL BUILDING MATERIALS AND WASTES IN ACCORDANCE WITH THE DEPARTMENT OF ENVIRONMENTAL PROTECTION'S SOLID WASTE MANAGEMENT REGULATIONS. ALL WASTE SHALL BE REMOVED FROM THE SITE BY 05/01/2024. THE CONTRACTOR SHALL NOT BURY, DUMP, OR DISCHARGE ANY BUILDING MATERIAL OR WASTES AT THE SITE.
16. THE CONTRACTOR SHALL MAINTAIN EXISTING PAVEMENT, MEET LINE AND GRADE OF EXISTING PAVEMENT.
17. ANY TRAFFIC CONTROL SIGNS SHALL BE IN ACCORDANCE WITH PENNDOT AND/OR WEST MANCHESTER TOWNSHIP SPECIFICATIONS.

PIPE	MATERIAL	SIZE (in)
I-7 to I-8	SLCCP	30"
I-8 to I-9	CIPP	26"x40"
I-9 to I-10	CIPP	26"x40"
I-10 to I-11	CMP	36"x48"
I-11 to EW-1	CMP	36"x48"

PA ONE-CALL



Before You Dig Anywhere

In . . .  PENNSYLVANIA

STOPI! Call 1-800-242-1176
 toll free
 PA Low requires 3 working days before
 you excavate
 PA One Call System, Inc.
 One-Call Serial #: 20232326570
 20232326582
 20232326586
 20232326606
 20232326662
 20232326716
 20232326721

PA ACT 287 OF 1974 AS AMENDED BY ACT 121 OF 2008, REQUIRES NOTIFICATION OF EXCAVATORS, DESIGNERS, OR ANY PARTY PREPARING TO DISTURB THE EARTH'S SURFACE ANYWHERE IN THE COMMONWEALTH.

REVISIONS				
NO.	DATE	DESCRIPTION	CHECKED	DRAWN
1	11/10/2023	ADD IRON PIN & PK NAIL ELEVATIONS	RN	DPK
2	10/2/2025	PHASE 3 REQUEST FOR PROPOSAL REVISION	RN	BB

DOCUMENT PREPARED FOR:

DOCUMENT PREPARED BY:

DAWOOD
4250 Crums Mill Road | Suite 301 | Harrisburg, PA 17112

SCALE: 1" = 20'

0 20 40

SCALE: 1" = 20'

EXISTING CONDITIONS PLAN
FOR
RAINBOW CIRCLE
STORMWATER PHASE
WEST MANCHESTER TOWNSHIP
YORK COUNTY
PENNSYLVANIA

DRAWING TITLE
EXISTING
CONDITIONS
PLAN

DATE	MAY 15, 2025
JOB NO.	2500051.02
FILE NAME	MU-01-EX-LY-01
DRAWN BY	DPK
CHECKED BY	RAN
DRAWING NO.	
C-101	
SHEET NO.	
1	OF 1

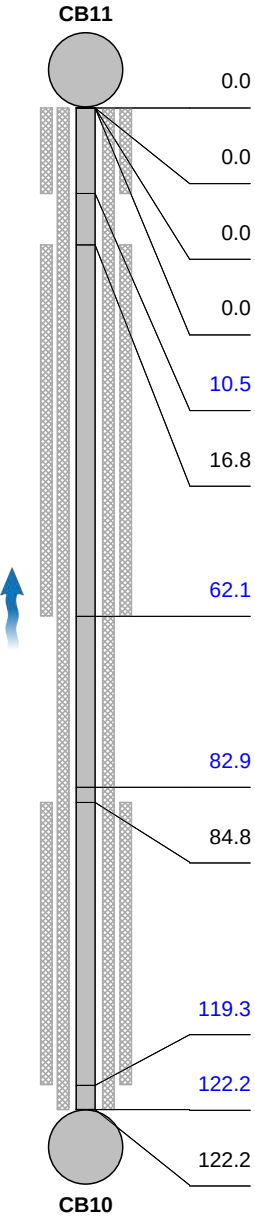


Inspection report

Date: 9/23/2022	Work Order:	Weather:	Surveyed By: Stew Eleftheriou	Certificate Number: U0318070300187	Pipe Segment Ref.: CB10-CB11
Year laid:	Pre-cleaning: No Pre-Cleaning	Direction: Upstream	Pipe Joint Length:	Total Length: 122.2 '	Length Surveyed: 122.2 '

City: YORK, PA	Drainage Area:	Upstream MH: CB10
Street: DERRY RD	Media Label:	Up Rim to Invert: 0.0
Location Code:	Flow Control:	Downstream MH: CB11
Location Details:	Sheet Number:	Down Rim to Invert: 0.0
Pipe shape: Oval	Sewer Use: Stormwater Pipe	Total gallons used: 0.0
Pipe size: 36 x 48 "	Sewer Category: SEC	Joints passed: 0
Pipe material: Corrugated Metal Pipe	Purpose:	Joints failed: 0
Lining Method:	Owner:	

Additional Info:

1:923	Distance	Code	Observation	Counter	Photo	Grade		
								
	0.0	ACB	Catch Basin / CB11	00:00:09	1			
	0.0	MWL	Water Level, 0% of the vertical dimension	00:00:12	2			
	0.0 S02	DSGV	Deposits Settled Gravel, 5% of cross sectional area at 6 o'clock, within 8 inch, Start	00:00:24	3			
	0.0 S01	DAE	Deposits Attached Encrustation, 5% of cross sectional area from 5 o'clock to 7 o'clock, within 8 inch, Start / RUST	00:00:34	4, 5			
	10.5 F02	DSGV	Deposits Settled Gravel, 5% of cross sectional area at 6 o'clock, within 8 inch, Finish	00:01:21	6	M2		
	16.8 S03	DSGV	Deposits Settled Gravel, 5% of cross sectional area from 5 o'clock to 7 o'clock, within 8 inch, Start	00:02:00	7			
	62.1 F03	DSGV	Deposits Settled Gravel, 5% of cross sectional area from 5 o'clock to 7 o'clock, within 8 inch, Finish	00:03:37	8	M2		
	82.9	OBR	Obstruction Rocks, 5% of cross sectional area from 6 o'clock to 7 o'clock	00:04:22	9	M2		
	84.8 S04	DSGV	Deposits Settled Gravel, 5% of cross sectional area from 5 o'clock to 7 o'clock, within 8 inch, Start	00:04:32	10			
	119.3 F04	DSGV	Deposits Settled Gravel, 5% of cross sectional area from 5 o'clock to 7 o'clock, within 8 inch, Finish	00:06:07	11	M2		
	122.2 F01	DAE	Deposits Attached Encrustation, 5% of cross sectional area from 5 o'clock to 7 o'clock, within 8 inch, Finish / RUST	00:06:26	12	M2		
	122.2	ACB	Catch Basin / CB10	00:06:34	13			
QSR	QMR	QOR	SPR	MPR	OPR	SPRI	MPRI	OPRI
0000	2G00	2G00	0.0	86.0	86.0	0.0	2.0	2.0

Section Pictures - 9/23/2022 - CB10-CB11

City	Street	Date	Pipe Segment Reference	Section No.
YORK, PA	DERRY RD	9/23/2022	CB10-CB11	1



1, 00:00:09, 0.00ft
 Catch Basin / CB11



2, 00:00:12, 0.00ft
 Water Level, 0% of the vertical dimension



3, 00:00:24, 0.00ft
 Deposits Settled Gravel, 5% of cross sectional area at 6 o'clock, within 8 inch, Start



4, 00:00:34, 0.00ft
 Deposits Attached Encrustation, 5% of cross sectional area from 5 o'clock to 7 o'clock, within 8 inch, Start / RUST

Section Pictures - 9/23/2022 - CB10-CB11

City	Street	Date	Pipe Segment Reference	Section No.
YORK, PA	DERRY RD	9/23/2022	CB10-CB11	1



5, 00:00:34, 0.00ft
 Deposits Attached Encrustation, 5% of cross sectional area from 5 o'clock to 7 o'clock, within 8 inch, Start / RUST



6, 00:01:21, 10.51ft
 Deposits Settled Gravel, 5% of cross sectional area at 6 o'clock, within 8 inch, Finish



7, 00:02:00, 16.79ft
 Deposits Settled Gravel, 5% of cross sectional area from 5 o'clock to 7 o'clock, within 8 inch, Start



8, 00:03:37, 62.07ft
 Deposits Settled Gravel, 5% of cross sectional area from 5 o'clock to 7 o'clock, within 8 inch, Finish

Section Pictures - 9/23/2022 - CB10-CB11

City	Street	Date	Pipe Segment Reference	Section No.
YORK, PA	DERRY RD	9/23/2022	CB10-CB11	1



9, 00:04:22, 82.89ft
 Obstruction Rocks, 5% of cross sectional area from 6 o'clock to 7 o'clock



10, 00:04:32, 84.76ft
 Deposits Settled Gravel, 5% of cross sectional area from 5 o'clock to 7 o'clock, within 8 inch, Start



11, 00:06:07, 119.27ft
 Deposits Settled Gravel, 5% of cross sectional area from 5 o'clock to 7 o'clock, within 8 inch, Finish



12, 00:06:26, 122.21ft
 Deposits Attached Encrustation, 5% of cross sectional area from 5 o'clock to 7 o'clock, within 8 inch, Finish / RUST



Section Pictures - 9/23/2022 - CB10-CB11

City YORK, PA	Street DERRY RD	Date 9/23/2022	Pipe Segment Reference CB10-CB11	Section No. 1
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13, 00:06:34, 122.21ft
Catch Basin / CB10



Inspection report

Date: 9/23/2022	Work Order:	Weather:	Surveyed By: Stew Eleftheriou	Certificate Number: U0318070300187	Pipe Segment Ref.: CB11-EW1
Year laid:	Pre-cleaning: No Pre-Cleaning	Direction: Downstream	Pipe Joint Length:	Total Length: 117.2 '	Length Surveyed: 117.2 '

City: YORK, PA	Drainage Area:	Upstream MH: CB11
Street: DERRY RD	Media Label:	Up Rim to Invert: 0.0
Location Code:	Flow Control:	Downstream MH: EW1
Location Details:	Sheet Number:	Down Rim to Invert: 0.0
Pipe shape: Oval	Sewer Use: Stormwater Pipe	Total gallons used: 0.0
Pipe size: 36 x 48 "	Sewer Category: SEC	Joints passed: 0
Pipe material: Corrugated Metal Pipe	Purpose:	Joints failed: 0
Lining Method:	Owner:	

Additional Info:

1:885	Distance	Code	Observation	Counter	Photo	Grade			
	0.0	ACB	Catch Basin / CB11	00:00:10	1				
	0.0	MWL	Water Level, 0% of the vertical dimension	00:00:15	2				
	0.0	S01	DSC	Deposits Settled Compacted, 5% of cross sectional area from 6 o'clock to 7 o'clock, within 8 inch, Start	00:00:24	3			
	10.3	F01	DSC	Deposits Settled Compacted, 5% of cross sectional area from 6 o'clock to 7 o'clock, within 8 inch, Finish	00:00:42	4	M2		
	10.3	S02	DAE	Deposits Attached Encrustation, 5% of cross sectional area from 5 o'clock to 7 o'clock, within 8 inch, Start / RUST	00:00:44	5			
	14.1	S03	DSC	Deposits Settled Compacted, 5% of cross sectional area at 6 o'clock, within 8 inch, Start	00:00:59	6			
	23.9	F03	DSC	Deposits Settled Compacted, 5% of cross sectional area at 6 o'clock, within 8 inch, Finish	00:01:22	7	M2		
	91.4	MGO	Miscellaneous General Observation / BITUMINOUS COATING ON THIS LENGTH OF THE PIPE	00:03:14	8, 9				
	108.1	S04	SMW	Surface Damage Missing Wall from 5 o'clock to 7 o'clock, within 8 inch, Start / BOTTOM OF PIPE STARTING TO RUST AWAY, SMALL HOLES FORMING	00:05:42	10, 11			
	114.5	MGP	Miscellaneous General Photograph from 5 o'clock to 7 o'clock / BOTTOM OF PIPE RUSTING AWAY	00:06:50	12, 13				
	117.2	MGP	Miscellaneous General Photograph from 5 o'clock to 7 o'clock / BOTTOM OF PIPE COMPLETELY MISSING AT END OF PIPE	00:07:26	14, 15				
	117.2	F02	DAE	Deposits Attached Encrustation, 5% of cross sectional area from 5 o'clock to 7 o'clock, within 8 inch, Finish / RUST	00:07:47	16	M2		
	117.2	F04	SMW	Surface Damage Missing Wall from 5 o'clock to 7 o'clock, within 8 inch, Finish / BOTTOM OF PIPE STARTING TO RUST AWAY, SMALL HOLES FORMING	00:07:50	17	S5		
	117.2	ADP	ADP	Discharge Point / EW1 - END WALL	00:07:53	18			
	QSR	QMR	QOR	SPR	MPR	OPR	SPRI	MPRI	OPRI
	5200	2D00	522D	10.0	50.0	60.0	5.0	2.0	2.2

Section Pictures - 9/23/2022 - CB11-EW1

City YORK, PA	Street DERRY RD	Date 9/23/2022	Pipe Segment Reference CB11-EW1	Section No. 2
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1, 00:00:10, 0.00ft
 Catch Basin / CB11



2, 00:00:15, 0.00ft
 Water Level, 0% of the vertical dimension



3, 00:00:24, 0.00ft
 Deposits Settled Compacted, 5% of cross sectional area from
 6 o'clock to 7 o'clock, within 8 inch, Start



4, 00:00:42, 10.25ft
 Deposits Settled Compacted, 5% of cross sectional area from
 6 o'clock to 7 o'clock, within 8 inch, Finish

Section Pictures - 9/23/2022 - CB11-EW1

City	Street	Date	Pipe Segment Reference	Section No.
YORK, PA	DERRY RD	9/23/2022	CB11-EW1	2



5, 00:00:44, 10.25ft
 Deposits Attached Encrustation, 5% of cross sectional area
 from 5 o'clock to 7 o'clock, within 8 inch, Start / RUST



6, 00:00:59, 14.08ft
 Deposits Settled Compacted, 5% of cross sectional area at 6
 o'clock, within 8 inch, Start



7, 00:01:22, 23.91ft
 Deposits Settled Compacted, 5% of cross sectional area at 6
 o'clock, within 8 inch, Finish



8, 00:03:14, 91.43ft
 Miscellaneous General Observation / BITUMINOUS COATING
 ON THIS LENGTH OF THE PIPE

Section Pictures - 9/23/2022 - CB11-EW1

City	Street	Date	Pipe Segment Reference	Section No.
YORK, PA	DERRY RD	9/23/2022	CB11-EW1	2



9, 00:03:14, 91.43ft
 Miscellaneous General Observation / BITUMINOUS COATING
 ON THIS LENGTH OF THE PIPE



10, 00:05:42, 108.12ft
 Surface Damage Missing Wall from 5 o'clock to 7 o'clock,
 within 8 inch, Start / BOTTOM OF PIPE STARTING TO RUST
 AWAY, SMALL HOLES FORMING



11, 00:05:42, 108.12ft
 Surface Damage Missing Wall from 5 o'clock to 7 o'clock,
 within 8 inch, Start / BOTTOM OF PIPE STARTING TO RUST
 AWAY, SMALL HOLES FORMING



12, 00:06:50, 114.54ft
 Miscellaneous General Photograph from 5 o'clock to 7 o'clock /
 BOTTOM OF PIPE RUSTING AWAY

Section Pictures - 9/23/2022 - CB11-EW1

City	Street	Date	Pipe Segment Reference	Section No.
YORK, PA	DERRY RD	9/23/2022	CB11-EW1	2



13, 00:06:50, 114.54ft
 Miscellaneous General Photograph from 5 o'clock to 7 o'clock /
 BOTTOM OF PIPE RUSTING AWAY



14, 00:07:26, 117.17ft
 Miscellaneous General Photograph from 5 o'clock to 7 o'clock /
 BOTTOM OF PIPE COMPLETELY MISSING AT END OF
 PIPE



15, 00:07:26, 117.17ft
 Miscellaneous General Photograph from 5 o'clock to 7 o'clock /
 BOTTOM OF PIPE COMPLETELY MISSING AT END OF
 PIPE



16, 00:07:47, 117.19ft
 Deposits Attached Encrustation, 5% of cross sectional area
 from 5 o'clock to 7 o'clock, within 8 inch, Finish / RUST



Section Pictures - 9/23/2022 - CB11-EW1

City YORK, PA	Street DERRY RD	Date 9/23/2022	Pipe Segment Reference CB11-EW1	Section No. 2
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17, 00:07:50, 117.20ft
Surface Damage Missing Wall from 5 o'clock to 7 o'clock,
within 8 inch, Finish / BOTTOM OF PIPE STARTING TO RUST
AWAY, SMALL HOLES FORMING



18, 00:07:53, 117.20ft
Discharge Point / EW1 - END WALL