



COBB COUNTY WATER SYSTEM

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Judy B. Jones, P.E.
Director

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Engineering & Records
Stormwater Management
System Maintenance
Water Protection

March 17, 2021

Addendum No. 1

Tramore Interceptor Sewer Rehabilitation
Program No. S3037

The following addition/changes modify the Contract Documents for the project Tramore Interceptor Sewer Rehabilitation dated March 25, 2021. The receipt of this addendum must also be noted in the appropriate location on the bid form that is submitted to the Purchasing Department.

Part A – Responses to written questions submitted on or before March 16, 2021:

1. **Question:** It appears the pipe segment in need of rehabilitation extends from **MH 213-0029 to MH 213-0030**. However, the CCTV Inspection report provided on sheet 237/237 of the Specification PDF appears to be for the next downstream segment of pipe (**MH 213-0028 to MH 213-0029; total length of 123.7 LF**). Please advise if we are looking at this correctly. If so, will the County please provide a copy of the inspection report for the MH 213-0029 to MH 213-0030 pipe segment?

Response: The section to be rehabilitated is from **MH 261-0030 to MH 261-0029** as shown on the drawing included in Appendix A. The Pipe Graphic report on sheet 237/237 is intended as an example of the report format required under Section 13328-Internal Sewer Line Condition Assessment and it covers MH 213-0028 to MH 213-0029 which is not the section to be rehabilitated.

A copy of the inspection report for the section MH 261-0030 to MH 261-0029 is attached.

2. **Question:** The CIPP specification currently requires a Glass-Reinforced CIPP product with a Vinyl Ester Resin. The specification also requires a CIPP design for pipe with a 5% ovality (2% is industry standard), and indicates the CIPP shall be designed for a pressurized sewer main. Are all of these requirements correct, as some appear to be contradictory? If a glass-reinforced CIPP shall be required, and this is a pressurized force main instead of a gravity interceptor, the flexural modulus is correct, tensile strength is appropriate, but the finished thickness should likely be reduced. If this is a gravity interceptor, the flexural modulus should be increased to 750,000 psi, the tensile strength requirement eliminated, and the minimum finished thickness reduced or specified to be designed per ASTM F1216. Vinyl ester resin is also not typically used on gravity interceptors due to the increased cost, unless there is an aggressive chemical or high H₂S environment. There is also mention in the specifications of standard and enhanced polyester resins. Therefore, please confirm which

Addendum No. 1

Tramore Interceptor Sewer Rehabilitation
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resin the County is requiring. Also, as mentioned above, CIPP is typically designed using a 2% ovality. If a 5% ovality shall be required, does that mean there are some existing structural issues with the pipe and it is exhibiting deflection that will need to be considered in the design?

Response: The Owner has selected the specification based on the existing condition, location and factors that may have contributed to the deteriorated conditions of the section to be rehabilitated. A Glass-Reinforced CIPP product with a Vinyl Ester Resin is to be provided.

3. **Question:** Will the County please require Vericure or Zia Wire continuous temperature monitoring systems to be utilized during curing of the segment? This is typically required on medium and large diameter installations in lieu of thermocouple temperature monitoring, which is typically utilized on small diameter applications. Zia Wire and Vericure systems monitor the temperature throughout the length of the pipe while it is curing, instead of just at the end points. This helps to minimize or eliminate uncured areas along the segment due to heat sinks, etc. since it allows the installation contractor to continually monitor the temperatures along the entire segment during curing.

Response: The Contractor may use Vericure or Zia wire continuous temperature monitoring systems if it so chooses, however the Owner will not modify the specification to require this type of system.

4. **Question:** The experience requirements for the Installer's Superintendent of the spiral-wound alternate seem to be substantially less than is required for CIPP installers. Will the owner please consider increasing the spiral-wound installer's Superintendent experience requirement to that of the CIPP Installer's Superintendent? Currently, the Spiral-Wound Superintendent is not required to have any years of experience and (2) projects of at least 500 LF each of 30-in or greater installation experience. Currently, the CIPP Installer's Superintendent is required to have five years of experience and 10,000 LF of 30-inch or greater installation experience, which is more in line with typical industry experience requirements.

Response: The specified experience requirements are appropriate for the specified rehabilitation methods and will not be modified for this project.

5. **Question:** Do you have flow data for this segment and/or a flow rate we should anticipate bypassing?

Response: The Owner does not have any flow data for the section to be rehabilitated.

6. **Question:** There is verbiage in the specification that appears to limit the bypass length to 600 LF. With the length of the pipe segment to be lined at 500 LF, this doesn't leave us enough length to pick up the flow at the next upstream manhole, and then discharge it into

Addendum No. 1

Tramore Interceptor Sewer Rehabilitation
Program No. S3037

the next downstream manhole. Therefore, does the County have a bypass plan in mind and/or are we actually limited to only a 600 LF long bypass system length?

Response: The Bypass Pumping Specification is not intended to limit the bypass pipe length. The Contractor is responsible for bypass pumping if it determines that bypass pumping is required.

Sincerely,

COBB COUNTY WATER SYSTEM
Engineering and Records Division



Eric W. Olson, P.E.
Division Manager



Dan Guill, P.E.
Project Manager
Construction Management Services
Jacobs

cc: Purchasing

Inspection Report

Date 3/3/2021	P/O. No.	Weather Dry	Surveyor's Name Taylor	Pipe Segment Reference SGM87892440	Section No. 3
Certificate No. U-0917-07009190	Survey Customer	System Owner	Inspection Date: 3/3/2021	Pre-Cleaning Heavy Cleaning	Sewer Category

Street East-West Connector	City Marietta- GA	Use of Sewer Sanitary	Upstream MH 261-0030
Loc. details	Location Code Easement/Right of Way	Drainage Area	Dowstream MH 261-0029
		Flow Control Bypassed	Dir. of Survey Downstream
		Length surveyed 493.70 ft	Section Length 493.70 ft

Purpose of Survey Routine Assessment	Joint Length 36 inch
Year Laid	Dia./Height Reinforced Concrete Pipe
Year Rehabilitated	Material
Tape / Media No. 1	Lining Method

Add. Information :

1:1185	Position	Observation	Photo	Grade
	0.00	Manhole	1_1A	
	0.00	Water Level, 5% of cross sectional area	1_2A	
	8.10 S1	Surface Reinforcement Visible Unknown, from 09 to 03 o'clock, within 8 inches: YES	1_3A	S 5
	9.00	Infiltration Runner, at 02 o'clock, within 8 inches: YES	1_4A	M 4
	33.80	Infiltration Runner, at 02 o'clock, within 8 inches: YES	1_5A	M 4
	33.80	Intruding Sealing Ring Loose/Poorly Fitting, 5% of cross sectional area, from 10 to 02 o'clock	1_6A	M 2
	37.20	Repair Pipe Replaced, within 8 inches: YES, REMARK: CMP	1_7A	
	40.20	Infiltration Runner, at 03 o'clock, within 8 inches: NO	1_8A	M 4
	45.90	Infiltration Runner, at 03 o'clock, within 8 inches: YES	1_9A	M 4
	49.90	Hole Void Visible, , at 02 o'clock, within 8 inches: NO	1_10A	S 5
	239.10	Infiltration Dripper, at 12 o'clock, within 8 inches: YES	1_11A	M 3
	275.30 F1	Surface Reinforcement Visible Unknown, from 09 to 03 o'clock, within 8 inches: NO	1_12A	S 5
	493.70	Manhole	1_13A	

Inspection photos

City : Marietta- GA	Street : East-West Connector	Date : 3/3/2021	Pipe Segment Reference : SGM87892440	Section No : 3
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Photo: 261-0030_261-0029_AMH_0.0.jpg, VCR No.: 1
 0FT, Manhole



Photo: 261-0030_261-0029_MWL_0.0.jpg, VCR No.: 1
 0FT, Water Level, 5% of cross sectional area



Photo: 261-0030_261-0029_SRVZ_8.1.jpg, VCR No.: 1
 8.1FT, Surface Reinforcement Visible Unknown, from 09 to
 03 o'clock, within 8 inches: YES



Photo: 261-0030_261-0029_IR_9.0.jpg, VCR No.: 1
 9FT, Infiltration Runner, at 02 o'clock, within 8 inches: YES

Inspection photos

City : Marietta- GA	Street : East-West Connector	Date : 3/3/2021	Pipe Segment Reference : SGM87892440	Section No : 3
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Photo: 261-0030_261-0029_IR_33.8.jpg, VCR No.: 1
 33.8FT, Infiltration Runner, at 02 o'clock, within 8 inches: YES



Photo: 261-0030_261-0029_ISSRL_33.8.jpg, VCR No.: 1
 33.8FT, Intruding Sealing Ring Loose/Poorly Fitting, 5% of cross sectional area, from 10 to 02 o'clock



Photo: 261-0030_261-0029_RPR_37.2.jpg, VCR No.: 1
 37.2FT, Repair Pipe Replaced, within 8 inches: YES, REMARK: CMP

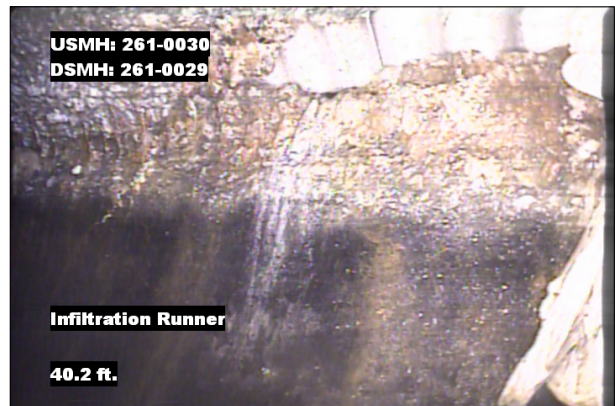


Photo: 261-0030_261-0029_IR_40.2.jpg, VCR No.: 1
 40.2FT, Infiltration Runner, at 03 o'clock, within 8 inches: NO

Inspection photos

City : Marietta- GA	Street : East-West Connector	Date : 3/3/2021	Pipe Segment Reference : SGM87892440	Section No : 3
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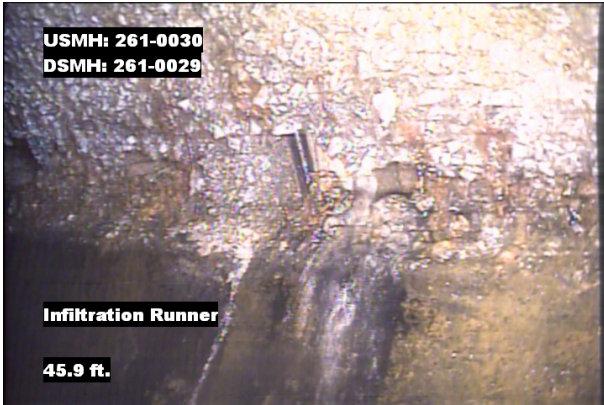


Photo: 261-0030_261-0029_IR_45.9.jpg, VCR No.: 1
 45.9FT, Infiltration Runner, at 03 o'clock, within 8 inches: YES



Photo: 261-0030_261-0029_HVV_49.9.jpg, VCR No.: 1
 49.9FT, Hole Void Visible, , at 02 o'clock, within 8 inches: NO



Photo: 261-0030_261-0029_ID_239.1.jpg, VCR No.: 1
 239.1FT, Infiltration Dripper, at 12 o'clock, within 8 inches: YES



Photo: 261-0030_261-0029_SRVZ_275.3.jpg, VCR No.: 1
 275.3FT, Surface Reinforcement Visible Unknown, from 09 to 03 o'clock, within 8 inches: NO

Inspection photos

City : Marietta- GA	Street : East-West Connector	Date : 3/3/2021	Pipe Segment Reference : SGM87892440	Section No : 3
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Photo: 261-0030_261-0029_AMH_493.7.jpg, VCR No.: 1
493.7FT, Manhole