

**ADDENDUM NO. 1**  
**DATED AUGUST 28, 2018**  
**CROSS COUNTRY SEWER INTERCEPTOR REHABILITATION**  
**SALEM, NEW HAMPSHIRE**

The following changes and information are hereby incorporated into the Contract Documents

**SPECIFICATIONS**

**Changes to Technical Specifications**

- 1) The following "Additional Information" is provided to supplement information contained in the specifications.

**ADDITIONAL INFORMATION**

- 1) Attached are the notes from the Pre-Bid meeting and sign-in sheet held on August 22, 2018.
- 2) Manhole inspection logs from 2017 are attached for manholes 1503, 1504, 1505, 1506, 1507, and 1509 which indicate manhole invert and rim elevations, material, size, etc.
- 3) The Town has hired Busby Construction to pave the rail trail in the area of the work for this contract. This work is scheduled for September/October 2018. The successful bidder shall be aware of this work and shall coordinate work and trail access with the Town and Busby Construction. All bidders should be aware that the small gravel lot on Willow St. will be eliminated with curb as part of the Rail Trail project and will not be available for parking/storage for this project.
- 4) Estimated maximum day sewer flow in the project area is 1.7 MGD based on best available information. Bidders should be aware that peak hour flow may be higher.
- 5) The Town does not want project schedule to discourage bidders from submitting a bid and will allow work to be completed after October, 2018. However, bidders should be aware that the Rail Trail has no snow removal or other maintenance during the winter. The successful bidder shall be responsible for all work and costs associated with winter access.

UNDERWOOD ENGINEERS, INC.



Cole S. Melendy, P.E.  
Project Manager

**Dated August 28, 2018**

## Sign In Sheet

## NON-MANDATORY PRE-BID MEETING

Town of Salem, NH  
Sewer Interceptor Rehabilitation  
August 22, 2018 2:00 P.M.

Name	Company	Address	Phone	Fax	Email
PETER Goodwin	TED BERRY COMPANY	521 FEDERAL RD, WILMORRE ME 04253	207 897 2348	207 897 3627	Peter.Goodwin@ tedberrycompany.com
Andrew Flanagan	National Water Main Cleaning Co	25 Marshall St Camden ME 04221	207-828-0863		Jtafel@nwmcc-bos.com
Doug Tarnawa	Goodwin Pumps/ Xtrem Demolition	99 Stock House Rd Bozrah CT	860 393 9844		Douglas.Tarnawa@xplmirc.com
Corey Melanson	UNDERWOODS ENGINEERS	25 VANDERBILT WALK PORTSMOUTH NH 03801	603-436- 6192		condensy@underwoodsengineers.com
Dan Hudson	Town of Salem	33 Community Dr Salem, NH	603-890- 2033		dhudson@salemnh.gov

**TOWN OF SALEM  
SALEM, NEW HAMPSHIRE**

**CROSS COUNTRY SEWER INTERCEPTOR REHABILITATION**

**Pre-Bid Meeting**

**-MINUTES-**

Town Hall, Knightly Room  
33 Geremonty Drive  
Salem, NH  
August 22, 2018 2:00 P.M.

**ATTENDEES**

See attached Sign-in Sheet for list of attendees.

***Addresses and Phone Numbers***

Underwood Engineers

Cole Melendy, P.E. Project Manager  
Ransom Horner-Richardson, Project Engineer  
Phone: (603)-436-6192  
Fax: (603)-431-4733  
25 Vaughan Mall  
Portsmouth, New Hampshire 03801

Town of Salem

Dan Hudson, P.E. Engineering Division  
Director  
Phone: (603)-890-2033  
33 Geremonty Drive  
Salem, New Hampshire 03079

Specifications and figures (included in appendix) can be downloaded from Town's purchasing website at <http://www.townofsaalemnh.org/purchasing/pages/current-bids-proposals-and-awards>

Direct all technical questions to Underwood Engineers.

***Project Overview***

The scope of work includes the following:

**Base Bid:**

- Obtain NHDOT Access Permit to access work area via the Rail Trail.
- Provide UV-cure CIPP liner for approximately 530 LF of 15-inch sewer interceptor including TV inspection and sewer cleaning.
- Provide bypass pumping for sewer during rehabilitation.

**Additive Alternate No. 1:**

- Provide UV-cure CIPP liner for approximately 1030 LF of additional 15-inch sewer interceptor including bypass pumping, TV inspection, and sewer cleaning.

### ***Bids***

Bids are due **11:00 A.M. Thursday, August 30, 2018** at the office of the Purchasing Agent, Town Hall, 33 Geremonty Drive, Salem, NH, and will then be opened and read publicly. Bids shall be in a sealed envelope marked “PROPOSAL FOR SEWER INTERCEPTOR REHABILITATION (Bid No. 2018-026)”. If bids are mailed, the sealed bid should be packaged in a second envelope, marked “PROPOSAL FOR SEWER INTERCEPTOR REHABILITATION (Bid No. 2018-026)” and mailed to: Office of the Purchasing Agent, 33 Geremonty Drive, Salem, NH 03079.

### ***Addendum***

An addendum, including pre-bid meeting minutes, will be posted to the purchasing website 2 days prior to the bid due date. Addenda issuance is Tuesday, August 28, 2018.

### ***Funding***

This project is being funded locally. No MBE/WBE requirements and no Davis-Bacon wage rates.

### ***General Contract Requirements***

Requirements include:

- 100% Performance bond.
- 100% Payment bond.
- \$50,000 2-year Warranty Bond (from substantial completion)
- Retainage will be 5% held until final completion.
- Insurance requirements and additional insured as noted in General and Special Conditions.
- Payment request frequency to be agreed between the successful Contractor and Owner at Contract signing.

### ***Easements and Agreements***

- Access manholes are located in easements through private property as indicated in the Contract Documents.
- Access to site will be from the NHDOT Rail Trail. The successful bidder will be responsible to obtain a NHDOT Access Permit. Details included in Appendix C.

### ***Permits***

- NHDOT Access Permit.
- If dewatering is required, NPDES General Permit for Construction Dewatering will be required.

### ***Dewatering***

If dewatering is anticipated during construction, the Contractor shall submit a Dewatering Plan, stamped by a Geotechnical Engineer registered as a P.E. in New Hampshire.

### ***Manhole Access***

Access manholes are located off the rail trail in a wetlands area. Contractor is responsible to



assess the site and provide all equipment and material necessary to access manholes and perform repairs.

### ***Schedule and Time***

The Town's goals for completion times for the project is October 31, 2018 for Substantial Completion and a Final Completion date of November 30, 2018 with a construction start date of September 10, 2018. Each contractor shall state their dates on their bid form.

It is anticipated that the Work will be completed during daylight hours unless specifically noted otherwise. Allowable work days and hours shall be as noted in the GENERAL CONDITIONS.

### ***Other/Special Requirements***

- Prior to the start of construction, the Contractor shall submit a By-Pass Pumping Plan to the Engineer and Town of Salem for review and approval (refer to Specification Section 01518).
- **The Town has hired Busby Construction to pave the rail trail in the area of the work for this contract. This rail trail paving work is scheduled for September/October 2018. The successful bidder shall be aware of this work and shall coordinate work and trail access with the Town and Busby Construction. All bidders should be aware that the small gravel lot on Willow St. will be eliminated as part of the rail trail work and will not be available for parking/storage.**

### ***Questions and Answers***

Q1: In the Bid Scope it states that the project will be completed during the 2018 construction season. Is it OK (since we are curing with UV and not thermal) to complete the project in Feb/March? (Precision Trenchless, 8/17/18)

**A1: There is no maintenance/snow removal for the rail trail during the winter. The Town is open to the possibility of the work being completed during the winter but the successful bidder would have to provide the required snow removal to provide the lining work.**

Q2: Are CCTV video files available for the reaches in the Base Bid and Add. Alt 1?

**A2: Yes. Video inspection files can be downloaded at this link (Provided in Section 02011): <http://gofile.me/2RfIJ/6q0RgRmqO>. Please note that CCTV is from 2017 and conditions may have changed since the CCTV inspections. The inspection crew had difficulty dewatering the reaches entirely and other leaks or defects may be present below the visible water line.**

Q3: What are the depths of the access manholes?

**A3: See Addendum 1 for manhole inspection logs.**

Q4: Are the provided flows for bypass Max day or peak hour flows?

**A4: The 1.7 MGD provided is the maximum day sewer flow in the area of the work based on our best understanding. Peak hour flows may be higher.**

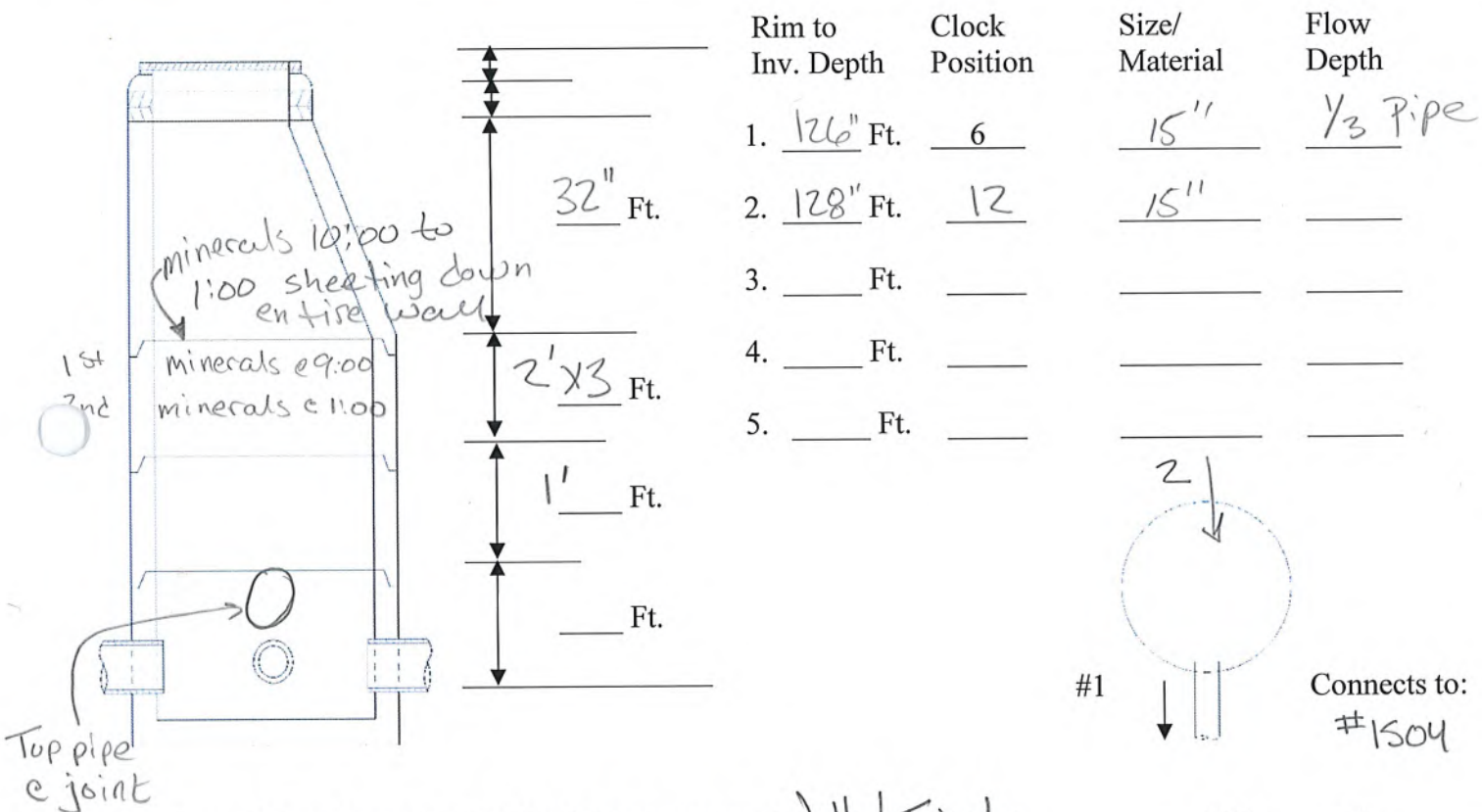
Q5: Are point repairs part of the contract?

**A5: No, the UV-cured liner is intended to fix the two big leaks and other defects in the reaches included in the base bid and additive alternate. Any additional material or work including pre-grouting, etc. required to repair sewer defects in each reach and furnish and install the liner is subsidiary to bid.**

SMH INSPECTION REPORT

Location: X-country / Rail trail ID No. 1503  
Dia. 4' Ft. Material: Pre-Cast By: DTR CSM Date: 5/12/17  
Clear Opening: 30" In. Corbel: N/A In. Frame 6" In. Inflow Area Potential: N/A S.F.

Notes: \_\_\_\_\_



Infiltration: ☐ None observed Est. GPM <0.01 Location: Walls/Joints H<sub>2</sub>S \_\_\_\_\_ pH \_\_\_\_\_

Observations	Material	Condition Rating	Notes
Frame/Cover:	<u>Bolted</u>	<u>2</u>	<u>8" Offset</u>
Corbel:	<u>N/A</u>		
Cone/Slab Top		<u>1</u>	
Walls		<u>3</u>	<u>Joint @ cone, Dripping &lt;0.01 gpm</u>
Invert/Shelf		<u>2</u>	<u>Concrete debris on shelf</u>

Condition Rating Codes:

1. Good condition – no further action needed
2. Minor defects – no immediate action needed no I/I observed.
3. Minor defects or I/I potential – needs attention or rehabilitation.
4. Significant defects and/or I/I – corrective action should be scheduled in near future.
5. Manhole or connecting pipes in extremely poor condition failure eminent – needs immediate action.



**Sewer Manhole Inspection Photos**  
2017 Infiltration and Inflow Evaluations  
Salem, New Hampshire





**Sewer Manhole Inspection Photos**  
2017 Infiltration and Inflow Evaluations  
Salem, New Hampshire



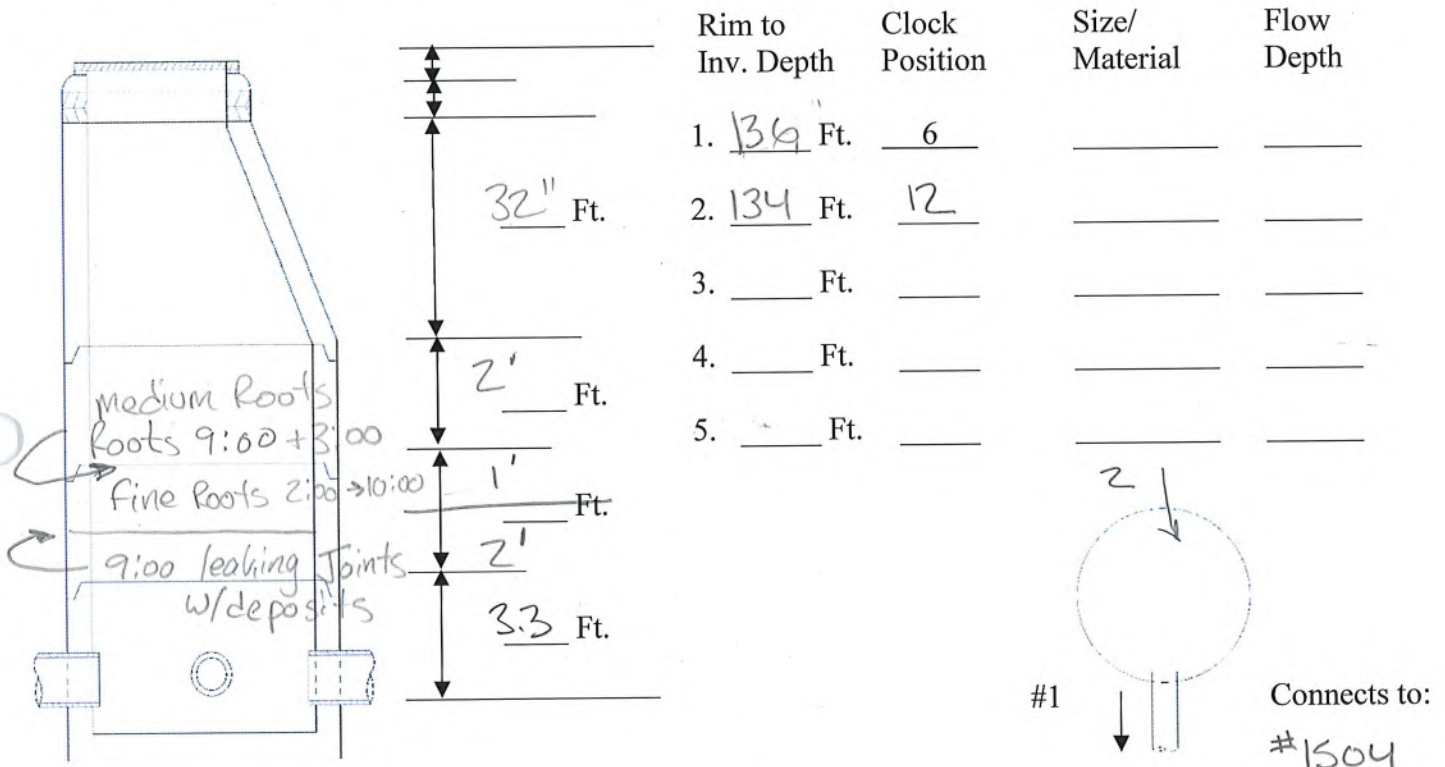
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SMH INSPECTION REPORT

Location: X-country / Rail trail ID No. 1504  
Dia. 4' Ft. Material: Pre-cast By: CSM DIR Date: 5/12/17  
Clear Opening: 30" In. Corbel: N/A In. Frame 6" In. Inflow Area Potential: N/A S.F.  
Notes: Recommended removal of trees, Tap Root @ 3:00  
Bolted cover



Infiltration: ☐ None observed Est. GPM 0.01 Location: Wells H<sub>2</sub>S      pH     

Observations	Material	Condition Rating	Notes
Frame/Cover:		<u>1</u>	<u>New Bolted cover</u>
Corbel:	<u>N/A</u>	<u>N/A</u>	
Cone/Slab Top		<u>2</u>	
Walls		<u>3</u>	<u>Med + fine roots, leaking joints</u>
Invert/Shelf	<u>Brick</u>	<u>2</u>	

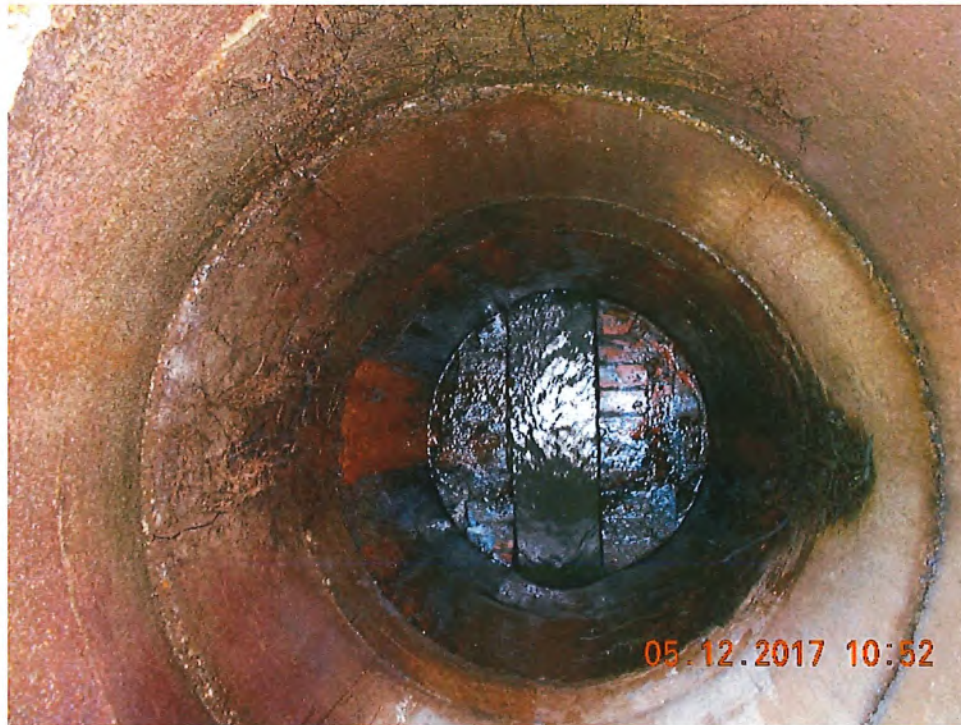
Condition Rating Codes:

1. Good condition – no further action needed
2. Minor defects – no immediate action needed no I/I observed.
3. Minor defects or I/I potential – needs attention or rehabilitation.
4. Significant defects and/or I/I – corrective action should be scheduled in near future.
5. Manhole or connecting pipes in extremely poor condition failure eminent – needs immediate action.

0.01 gpm



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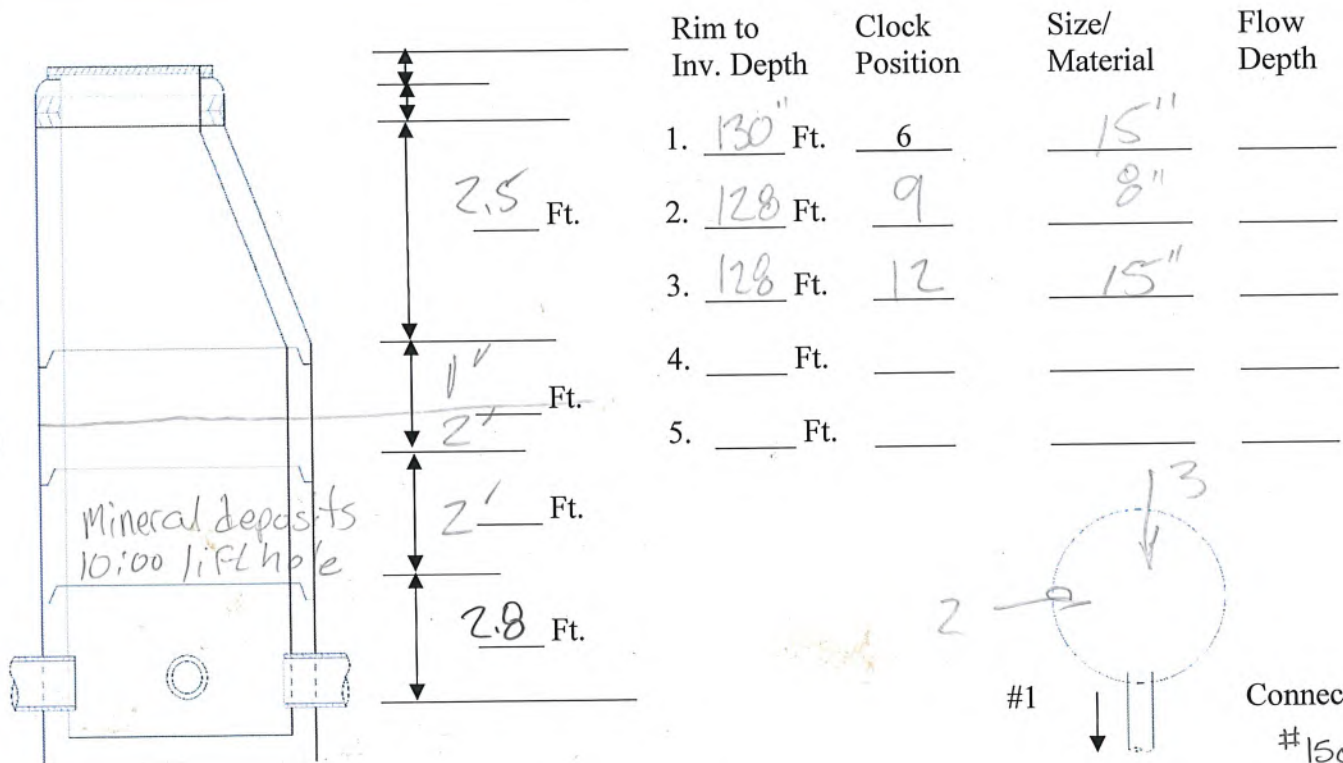
**Sewer Manhole Inspection Photos**  
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SMH INSPECTION REPORT

Location: X-country / Rail trail ID No. 1505  
Dia. 4' Ft. Material: Pre-Cast By: DR CSM Date: 5/12/17  
Clear Opening: 30" In. Corbel: 0 In. Frame 6" In. Inflow Area Potential: N/A S.F.

Notes: \_\_\_\_\_



Infiltration: ☐ None observed Est. GPM <0.01 Location: Walls H<sub>2</sub>S \_\_\_\_\_ pH \_\_\_\_\_

Observations	Material	Condition Rating	Notes
Frame/Cover:		<u>1</u>	<u>Bolted</u>
Corbel:		<u>N/A</u>	
Cone/Slab Top		<u>2</u>	
Walls		<u>3</u>	
Invert/Shelf		<u>2</u>	

Condition Rating Codes:

1. Good condition – no further action needed
2. Minor defects – no immediate action needed no I/I observed.
3. Minor defects or I/I potential – needs attention or rehabilitation.
4. Significant defects and/or I/I – corrective action should be scheduled in near future.
5. Manhole or connecting pipes in extremely poor condition failure eminent – needs immediate action.



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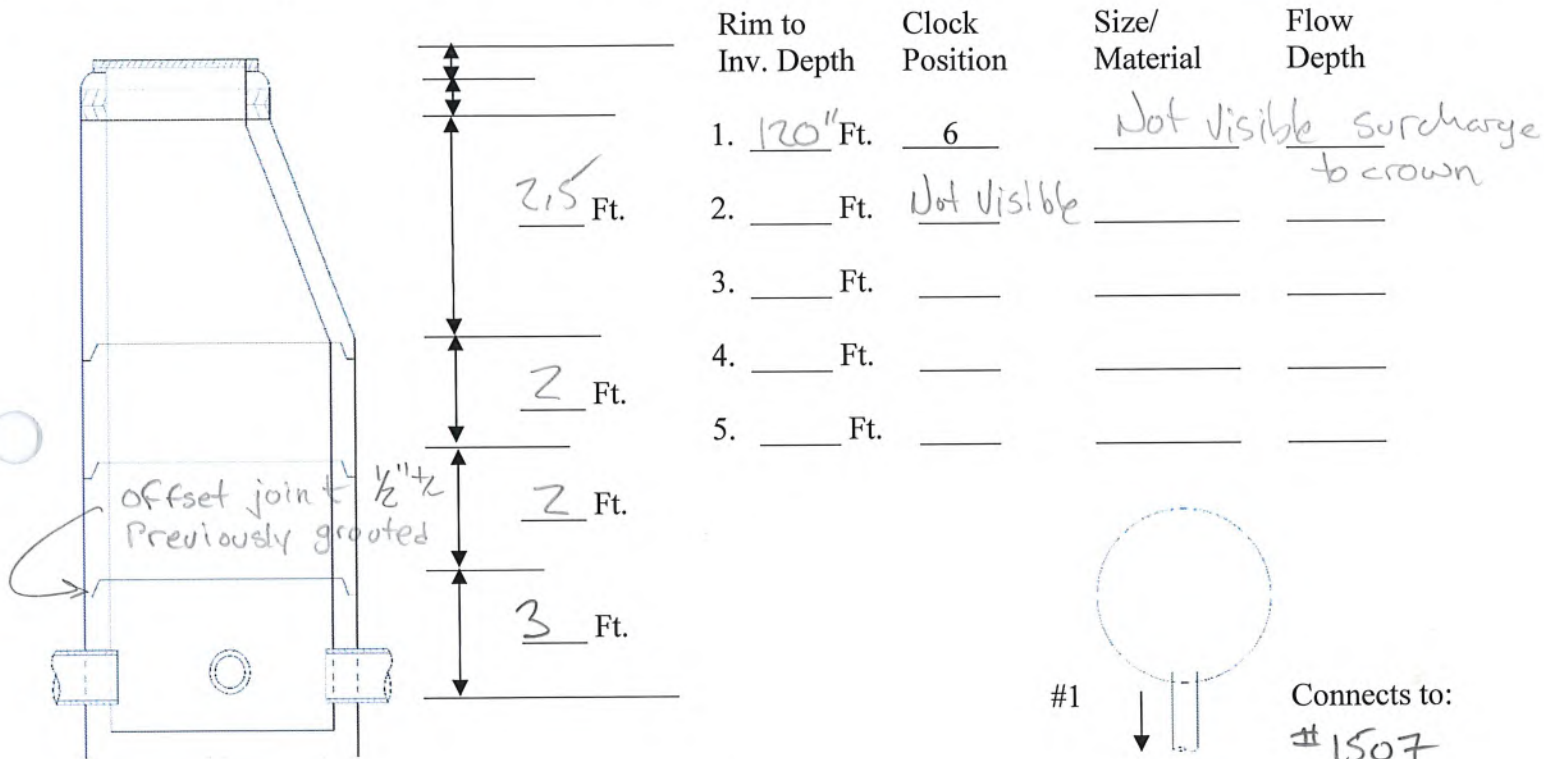
**Sewer Manhole Inspection Photos**  
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SMH INSPECTION REPORT

Location: X-country / Rail trail ID No. 1506  
Dia. 4' Ft. Material: PreCast By: DJR CSM Date: 5/12/17  
Clear Opening: 30" In. Corbel: 0 In. Frame 6" In. Inflow Area Potential: N/A S.F.  
Notes: Manhole surcharged to crown  
Inlet possibly lower than outlet based on H<sub>2</sub>O level



Infiltration: ☒ None observed Est. GPM      Location:      H<sub>2</sub>S      pH     

Observations	Material	Condition Rating	Notes
Frame/Cover:		<u>1</u>	<u>Bolted new</u>
Corbel:		<u>N/A</u>	
Cone/Slab Top		<u>2</u>	
Walls		<u>2</u>	<u>Previous perging / grout @ bottom, seams</u>
Invert/Shelf		<u>N/A</u>	<u>Not visible</u>

Condition Rating Codes:

1. Good condition – no further action needed
2. Minor defects – no immediate action needed no I/I observed.
3. Minor defects or I/I potential – needs attention or rehabilitation.
4. Significant defects and/or I/I – corrective action should be scheduled in near future.
5. Manhole or connecting pipes in extremely poor condition failure eminent – needs immediate action.

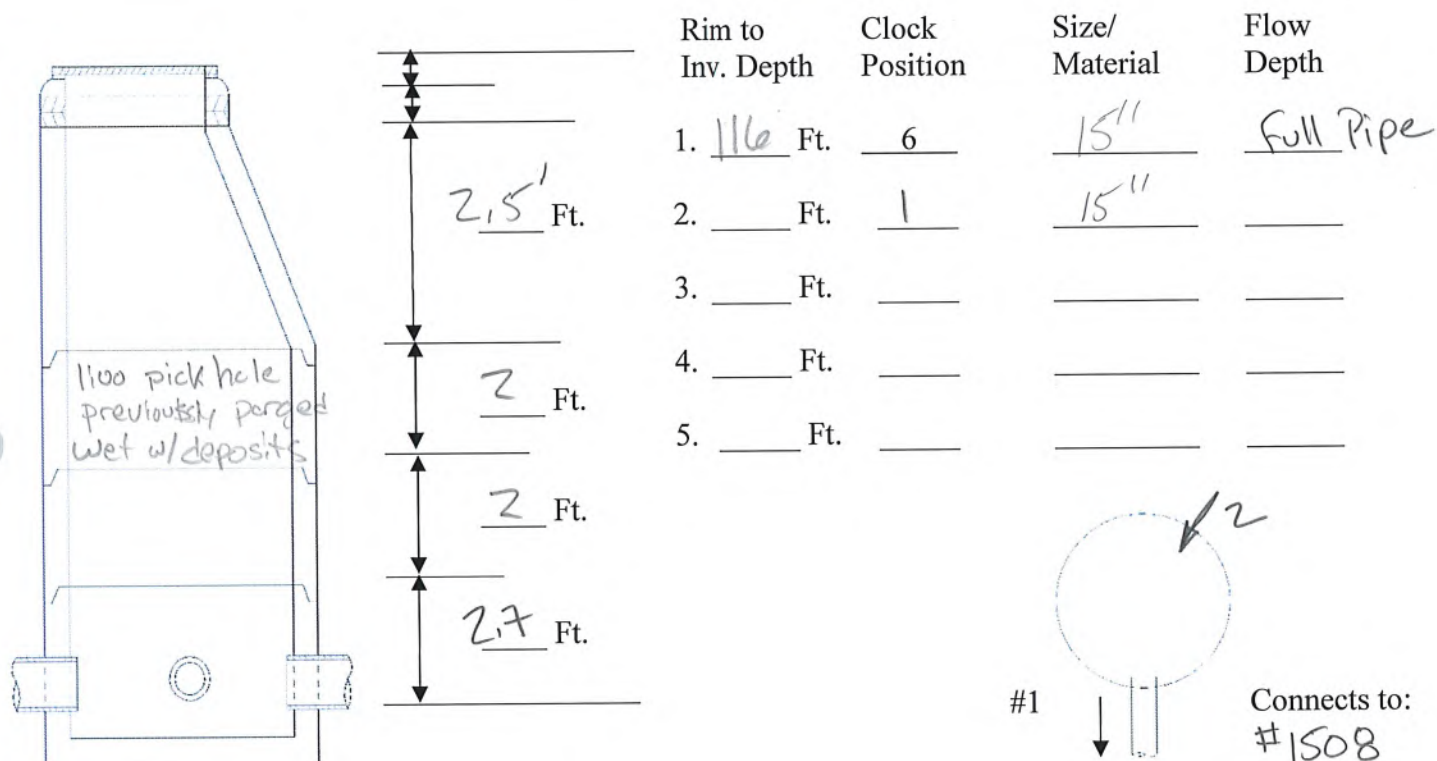


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SMH INSPECTION REPORT

Location: X-Country / Rail trail ID No. 1507  
Dia. 4 Ft. Material: Pre-Cast By: DJR CSM Date: 5/12/17  
Clear Opening: 30" In. Corbel: 0 In. Frame 6" In. Inflow Area Potential: N/A S.F.  
Notes: Surcharged to top of Invert shelf



Infiltration: ☐ None observed Est. GPM 40.01 Location: Walls H<sub>2</sub>S      pH     

Observations	Material	Condition Rating	Notes
Frame/Cover:		<u>1</u>	<u>Bottom New</u>
Corbel:		<u>N/A</u>	
Cone/Slab Top		<u>2</u>	
Walls		<u>3</u>	<u>all joints previously perged</u>
Invert/Shelf		<u>N/A</u>	<u>Not visible</u>

Condition Rating Codes:

1. Good condition – no further action needed
2. Minor defects – no immediate action needed no I/I observed.
3. Minor defects or I/I potential – needs attention or rehabilitation.
4. Significant defects and/or I/I – corrective action should be scheduled in near future.
5. Manhole or connecting pipes in extremely poor condition failure eminent – needs immediate action.

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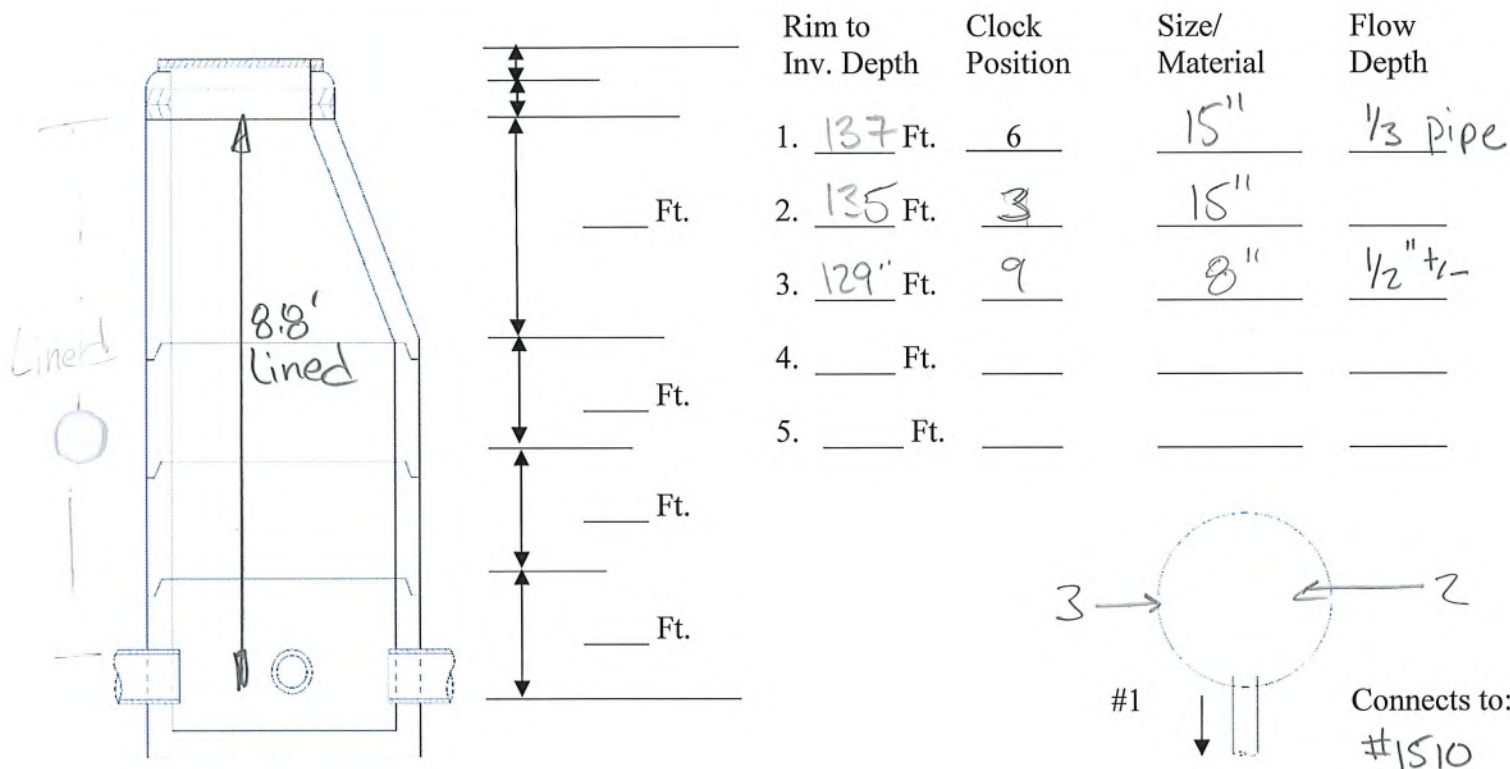




SMH INSPECTION REPORT

Location: X-country / Rail trail ID No. 1508 1509  
Dia. 4' Ft. Material: lined Pre-cast By: DJR CSM Date: 5/12/17  
Clear Opening: 30 In. Corbel: 25" In. Frame 6" In. Inflow Area Potential: N/A S.F.

Notes: \_\_\_\_\_



Infiltration: ☒ None observed Est. GPM \_\_\_\_\_ Location: \_\_\_\_\_ H<sub>2</sub>S \_\_\_\_\_ pH \_\_\_\_\_

Observations	Material	Condition Rating	Notes
Frame/Cover:		<u>2</u>	<u>Frame is cracked.</u>
Corbel:		<u>2</u>	<u>lined, peeling away</u>
Cone/Slab Top		<u>2</u>	<u>roots through liner at corbel joint</u>
Walls		<u>2</u>	<u>Previously lined</u>
Invert/Shelf		<u>2</u>	<u>Previously lined.</u>

Condition Rating Codes:

1. Good condition – no further action needed
2. Minor defects – no immediate action needed no I/I observed.
3. Minor defects or I/I potential – needs attention or rehabilitation.
4. Significant defects and/or I/I – corrective action should be scheduled in near future.
5. Manhole or connecting pipes in extremely poor condition failure eminent – needs immediate action.

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