



2015 CIPP Sanitary Sewer Construction Package VI

Solicitation Number: **CO-00021**

Job No.: **15-4801**

ADDENDUM 2

September 11, 2015

To Respondent of Record:

This addendum, applicable to work referenced above, is an amendment to the bid proposal, plans and specifications and as such will be a part of and included in the Contract Documents. Acknowledge receipt of this addendum by entering the Addendum number and issue date on the space provided in submitted copies of the bid proposal.

MODIFICATIONS TO THE SPECIFICATIONS

1. Replace current Workers' Compensation Insurance Coverage Requirements with revised document attached.
2. Remove Workers' Compensation Exhibit "A" from 2015 CIPP Sanitary Sewer Construction Package V documents.
3. Replace Bid Proposal with revised Bid Proposal attached.
4. Replace Special Provisions with revised Special Provisions attached.
5. Replace Table of Contents with revised Table of Contents attached.
6. Cost estimate has been revised and new cost estimate is \$1,835,031.00

RESPONSES TO QUESTIONS

1. **There is no break down as to the amount of Cement & Epoxy. (500 VF &1100 VF)
Can you specify?**

Refer to Manhole Rehabilitation Specification "Item 910".

2. **Again, I have to question if 2015 Cured-In-Place Pipe (CIPP) Sanitary Sewer Construction Package VI has plans since Package V has plans?**

Location/scope is undefined for Package VI; no plans will be provided for this bid.

3. **Our Company, Electro Scan Inc., has reviewed the San Antonio Water System's Request for Bid for 2015 CIPP Sanitary Sewer Construction Package VI (Due: September 17, 2015) and 2015 CIPP Sanitary Sewer Construction Package VI (Due: September 3, 2015) and found that you may not be adopting new USEPA best practices and ASTM standards for accepting the installation of your upcoming Point Repair and CIPP projects. Recommendation: Consider issuing an addendum for both bids that simply states:**

"The Agency reserves the right to certify all Point Repairs and Cure-In-Place Pipe lining using low voltage conductivity testing instrumentation in accordance with ASTM F2550-13 and USEPA benchmarks."

Recently, the USEPA has found that visual inspection using CCTV cameras (alone) are missing key sewer main defects affecting the useful life of rehabilitated pipes. As a result, the addition of this simple statement should open the door to allow the San Antonio Water System to utilize a next generation technology, to support any potential dispute with your selected Contractor(s) in determining whether Point Repairs and CIPP linings are delivered free of leaks and other defect flows.

Currently, Electro Scan Inc., its authorized contractors and services division offering its patent-pending low voltage conductivity technology is finding 10% or more of all point repairs and CIPP lining projects with defects so severe

that repair, replacement, or re-sealing is required, prior to acceptance.

Since most cities have traditionally relied on CCTV to accept repairs and relining projects -- many times completed by the Contractor -- no recourse to fix questionable work is available to the City, unless you 'reserve the right to use other available technologies.'

Electro Scan is single-handedly becoming the #1 tool to ensure that sewer agencies get what they are paying for.

Key documents that might be worth reviewing by you and your team, include:

1. ASTM F2550-13, Standard Practice for Locating Leaks in Sewer Pipes By Measuring the Variation of Electric Current Flow Through the Pipe Wall

<http://www.electroscan.com/wp-content/uploads/2015/02/F2550-13.pdf>

2. New Seventh Edition, Vol. 1, WW Collection Systems – Endorsed by the US EPA and Office of Water Programs

http://www.electroscan.com/wp-content/uploads/2015/05/2015_OM_WW_Collection_Manual_DRAFT.pdf

3. Miami-Dade County, FL – CIPP Addendum Specifying ASTM F2550-13 Lining Certification

http://www.electroscan.com/wp-content/uploads/2015/06/Miami-Dade_CIPP_Addendum_Aug-2014.pdf

Electro Scan's Services Division found a recently CIPP lined pipe with significant defects, not detected by CCTV; the result, was an emergency proposal to re-evaluate all CIPP that was still under warranty. Had the City inserted a simple sentence in their original RFP, it would have greatly simplified their ability to hold the Contractor to higher standards and warranty their pipe, instead of using Electro Scan as its roadmap to re-review CCTV videos to find what was originally missed.

City of Santa Barbara, CA – CIPP and Point Repair QA/QC Webinar, June 2015

http://www.electroscan.com/wp-content/uploads/2015/06/Santa-Barbara_CIPP_Point_Repair_QAQC.pdf

In fact, point repairs are a specialty of Electro Scan -- often finding Contractors often create two defects at either end of the point repair. Often passing the CCTV visual test, cities miss the defect flows at each end of the point repair.

Since CCTV operators are unable to view up and inside joints to determine if mortar is missing or seals not properly secured, Electro Scan automatically can locate and measure (in GPM) estimated defect flows for any pathway from ground to the interior of a pipe. In many cases, joint leaks are so numerous the point repair should never have been considered. CCTV just can't see if openings through joints can provide pathways for water, like Electro Scan.

Electro Scan Services would be delighted to perform a benchmark demonstration with recent San Antonio Water System Point Repairs and CIPP Lining. Typically covered by a City's post-rehabilitation inspection budget, 10,000ft benchmarks generally cost \$5-\$6 per foot, including mobilization and reporting, able to survey at 2,000 to 3,000ft per day depending on location and access.

Feel free to call or email if you have any questions. I apologize for the directness of this email, but we want to ensure that agencies undertaking repairs, rehabilitation, and renewal programs, get the quality workmanship that they expect and deserve.

SAWS will not issue an addendum for use of this low voltage conductivity testing at this time. Please use SAWS current specification for testing.

Alla Korostyshevsky, P. E.
San Antonio Water System



ACKNOWLEDGEMENT BY RESPONDENT

Each Respondent shall acknowledge receipt of this Addendum No. 2 by noting such and signing the Bid Proposal.

This undersigned acknowledges receipt of this Addendum No. 2 and the bid proposal submitted herewith is in accordance with the information and stipulations set forth.

Date

Signature of Respondent

END OF ADDENDUM

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Workers' Compensation Insurance Coverage.

A. Definitions:

Certificate of coverage ("certificate")- A copy of a certificate of insurance, a certificate of authority to self-insure issued by the division [or a coverage agreement (DWC Form-81, DWC Form-82, DWC Form-83, or DWC Form-84.) showing statutory workers' compensation insurance coverage for the person's or entity's employees providing services on a project, for the duration of the project.

Duration of the project - includes the time from the beginning of the work on the project until the contractor's/person's work on the project has been completed and accepted by the governmental entity.

Persons providing services on the project ("subcontractor" in §406.096) - includes all persons or entities performing all or part of the services the contractor has undertaken to perform on the project, regardless of whether that person contracted directly with the contractor and regardless of whether that person has employees. This includes, without limitation, independent contractors, subcontractors, leasing companies, motor carriers, owner-operators, employees of any such entity, or employees of any entity which furnishes persons to provide services on the project. "Services" include, without limitation, providing, hauling, or delivering equipment or materials, or providing labor, transportation, or other service related to a project. "Services" does not include activities unrelated to the project, such as food/beverage vendors, office supply deliveries, and delivery of portable toilets.

B. The contractor shall provide coverage, based on proper reporting of classification codes and payroll amounts and filing of any coverage agreements, which meets the statutory requirements of Texas Labor Code, Section 401.011(44) for all employees of the contractor providing services on the project, for the duration of the project.

C. The Contractor must provide a certificate of coverage to the governmental entity prior to being awarded the contract.

D. If the coverage period shown on the contractor's current certificate of coverage ends during the duration of the project, the contractor must, prior to the end of the coverage period, file a new certificate of coverage with the governmental entity showing that coverage has been extended.

E. The contractor shall obtain from each person providing services on a project, and provide to the governmental entity:

(1) a certificate of coverage, prior to that person beginning work on the project, so the governmental entity will have on file certificates of coverage showing coverage for all persons providing services on the project; and

(2) no later than seven days after receipt by the contractor, a new certificate of coverage showing extension of coverage, if the coverage period shown on the current certificate of coverage ends during the duration of the project.

F. The contractor shall retain all required certificates of coverage for the duration of the project and for one year thereafter.

G. The contractor shall notify the governmental entity in writing by certified mail or personal delivery, within 10 days after the contractor knew or should have known, of any change that materially affects the provision of coverage of any person providing services on the project.

H. The contractor shall post on each project site a notice, in the text, form and manner prescribed by the Division of Workers' Compensation, informing all persons providing services on the project that they are required to be covered, and stating how a person may verify coverage and report lack of coverage.

I. The contractor shall contractually require each person with whom it contracts to provide services on a project, to:

(1) provide coverage, based on proper reporting of classification codes and payroll amounts and filing of any coverage agreements, which meets the statutory requirements of Texas Labor Code, Section 401.011(44) for all of its employees providing services on the project, for the duration of the project;

(2) provide to the contractor, prior to that person beginning work on the project, a certificate of coverage showing that coverage is being provided for all employees of the person providing services on the project, for the duration of the project;

(3) provide the contractor, prior to the end of the coverage period, a new certificate of coverage showing extension of coverage, if the coverage period shown on the current certificate of coverage ends during the duration of the project;

(4) obtain from each other person with whom it contracts, and provide to the contractor:

(a) a certificate of coverage, prior to the other person beginning work on the project; and

(b) a new certificate of coverage showing extension of coverage, prior to the end of the coverage period, if the coverage period shown on the current certificate of coverage ends during the duration of the project;

(5) retain all required certificates of coverage on file for the duration of the project and for one year thereafter;

(6) notify the governmental entity in writing by certified mail or personal delivery, within 10 days after the person knew or should have known, of any change that materially affects the provision of coverage of any person providing services on the project; and

(7) contractually require each person with whom it contracts, to perform as required by paragraphs (1) - (7), with the certificates of coverage to be provided to the person for whom they are providing services.

J. By signing this contract or providing or causing to be provided a certificate of coverage, the contractor is representing to the governmental entity that all employees of the contractor who will provide services on the project will be covered by workers' compensation coverage for the duration of the project, that the coverage will be based on proper reporting of classification codes and payroll amounts, and that all coverage agreements will be filed with the appropriate insurance carrier or, in the case of a self-insured, with the division. Providing false or misleading information may subject the contractor to administrative penalties, criminal penalties, civil penalties, or other civil actions.

K. The contractor's failure to comply with any of these provisions is a breach of contract by the contractor which entitles the governmental entity to declare the contract void if the contractor does not remedy the breach within ten days after receipt of notice of breach from the governmental entity.

BID PROPOSAL

PROPOSAL OF _____, a corporation
a partnership consisting of _____
an individual doing business as _____

THE SAN ANTONIO WATER SYSTEM:

Pursuant to Instructions and Invitation to Bidders, the undersigned proposes to furnish all labor and materials as specified and perform the work required for the project as specified, in accordance with the Plans and Specifications for the following prices to wit:

(PLEASE SEE ATTACHED PDF LIST OF BID ITEMS)

TOTAL BID AMOUNT \$ _____

BIDDER'S SIGNATURE & TITLE

FIRM'S NAME (TYPE OR PRINT)

FIRM'S ADDRESS

FIRM'S PHONE NO. /FAX NO.

FIRM'S EMAIL ADDRESS

The Contractor herein acknowledges receipt of the following:
Addendum Nos. _____

OWNER RESERVES THE RIGHT TO ACCEPT THE OVERALL MOST RESPONSIBLE BID.

The bidder offers to construct the Project in accordance with the Contract Documents for the contract price, and to complete the Project within **730** calendar days after the start date, or until funds are exhausted, whichever comes first, as set forth in the Authorization to Proceed. **The bidder understands and accepts the provisions of the contract Documents relating to liquidated damages of the project if not completed on time.**

Complete the additional requirements of the Bid Proposal which are included on the following pages.

2015 CIPP SANITARY SEWER CONSTRUCTION PACKAGE VI

Item No.	Spec. No.	Item Description	Unit of Measure	Qty.	Unit Price	Total Price
1	103.1	Remove Concrete Curb (COSA Spec)	LF	50	\$	\$
2	103.3	Remove Sidewalks and Driveways (COSA Spec)	SF	50	\$	\$
3	103.4	Remove Miscellaneous Concrete (COSA Spec)	SF	50	\$	\$
4	203.1	Tack Coat (COSA Spec)	GAL	187	\$	\$
5	205.3	Hot Mix Asphaltic Concrete Pavement, Type C (3" Compacted Depth) (COSA Spec)	SY	543	\$	\$
6	205.4	Hot Mix Asphaltic Concrete Pavement, Type D (2" Compacted Depth) (COSA Spec)	SY	1330	\$	\$
7	206.1	Asphalt Treated Base (ATB) (10" Compacted Depth) (COSA Spec)	SY	530	\$	\$
8	206.1	Asphalt Treated Base (ATB) (12" Compacted Depth) (COSA Spec)	SY	163	\$	\$
9	208.1	Salvaging, Hauling, and Stockpiling Reclaimable Asphaltic Pavement (2" Depth) (COSA Spec)	SY	1330	\$	\$
10	208.1	Salvaging, Hauling, and Stockpiling Reclaimable Asphaltic Pavement (3" Depth) (COSA Spec)	SY	543	\$	\$
11	247	Flexible Base-Type A, Grade I with 2% Cement (TxDOT Spec.)	CY	50	\$	\$
12	500.1	Concrete Curb (COSA Spec)	LF	90	\$	\$
13	500.4	Concrete Curb and Gutter (COSA Spec)	LF	85	\$	\$
14	502.1	Concrete Sidewalks (COSA Spec)	SY	80	\$	\$
15	503.1	Portland Cement Concrete Driveway (COSA Spec)	SY	40	\$	\$
16	503.2	Portland Cement Concrete Driveway - Commercial (COSA Spec)	SY	40	\$	\$
17	503.4	Asphaltic Concrete Driveway (COSA Spec)	SY	25	\$	\$
18	505.1	Concrete Riprap (5" Thick) (COSA Spec)	SY	40	\$	\$
19	507.1	New Residential Chain Link Wire Fence (4 ft. High) (COSA Spec)	LF	25	\$	\$

2015 CIPP SANITARY SEWER CONSTRUCTION PACKAGE VI

Item No.	Spec. No.	Item Description	Unit of Measure	Qty.	Unit Price	Total Price
20	507.6	New Residential Wooden Privacy Fence (6 ft. High)	LF	40	\$	\$
21	515.1	Topsoil (COSA Spec)	CY	15	\$	\$
22	516.1	Bermuda Sodding (COSA Spec)	SY	20	\$	\$
23	516.2	St. Augustine Sodding (COSA Spec)	SY	18	\$	\$
24	520.1	Hydromulching (Residential or Commercial) (COSA Spec)	SY	15	\$	\$
25	535.1	4 Inch Wide Yellow Line (COSA Spec)	LF	50	\$	\$
26	535.2	4 Inch Wide White Line (COSA Spec)	LF	50	\$	\$
27	535.7	24 Inch Wide White Line (COSA Spec)	LF	50	\$	\$
28	537.6	Pavement Marker (Type I-C) (COSA Spec)	EA	25	\$	\$
29	537.8	Pavement Marker (Type II-A-A) (COSA Spec)	EA	20	\$	\$
30	851	Adjusting Existing Manholes	EA	5	\$	\$
31	852.1	Sanitary Sewer Manhole, 4 ft. Diameter (0'-6')	EA	15	\$	\$
32	852.1	Sanitary Sewer Manhole, 5 ft. Diameter (0'-6')	EA	2	\$	\$
33	852.2	Sanitary Sewer Drop Manhole, 4 ft. Diameter (0'-6')	EA	2	\$	\$
34	852.2	Sanitary Sewer Drop Manhole, 5 ft. Diameter (0'-6')	EA	2	\$	\$
35	852.3	Extra Depth Manholes, 4 ft. Diameter (>6')	VF	15	\$	\$
36	852.3	Extra Depth Manholes, 5 ft. Diameter (>6')	VF	10	\$	\$
37	854.1	Sanitary Sewer Laterals	LF	50	\$	\$
38	854.2	Two-Way Sanitary Sewer Clean-out	EA	10	\$	\$
39	855.1	Reconstruction of Existing Manhole	EA	10	\$	\$
40	858	Concrete Encasement, Cradles, Saddles and Collars	CY	20	\$	\$
41	860	Vertical Stacks	VF	20	\$	\$
42	866	Sewer Main Television Inspection (8" through 15" Diameter)	LF	13500	\$	\$

2015 CIPP SANITARY SEWER CONSTRUCTION PACKAGE VI

Item No.	Spec. No.	Item Description	Unit of Measure	Qty.	Unit Price	Total Price
43	866	Sewer Main Television Inspection (18" through 21" Diameter)	LF	1500	\$	\$
44	901	CIPP 8" Sanitary Sewer Pipe, all depths	LF	10000	\$	\$
45	901	CIPP 10" Sanitary Sewer Pipe, all depths	LF	2000	\$	\$
46	901	CIPP 12" Sanitary Sewer Pipe, all depths	LF	1500	\$	\$
47	901	CIPP 15" Sanitary Sewer Pipe, all depths	LF	1000	\$	\$
48	901	CIPP 18" Sanitary Sewer Pipe, all depths	LF	1000	\$	\$
49	901	CIPP 21" Sanitary Sewer Pipe, all depths	LF	500	\$	\$
50	910	Manhole Rehabilitation	VF	500	\$	\$
51	1103.1	Point repairs for 8" or 10" Diameter, (0'-10' depth) including up to 20 LF of piping	EA	15	\$	\$
52	1103.1	Point repairs for 8" or 10" Diameter, (10'-15' depth) including up to 20 LF of piping	EA	8	\$	\$
53	1103.1	Point repairs for 8" or 10" Diameter, (>15' depth) including up to 20 LF of piping	EA	3	\$	\$
54	1103.1	Point repairs for 12" or 15" Diameter, (0'-10' depth) including up to 20 LF of piping	EA	5	\$	\$
55	1103.1	Point repairs for 12" or 15" Diameter, (10'-15' depth) including up to 20 LF of piping	EA	5	\$	\$
56	1103.1	Point repairs for 12" or 15" Diameter, (>15' depth) including up to 20 LF of piping	EA	2	\$	\$
57	1103.1	Point repairs for 18" or 21" Diameter, (0'-10' depth) including up to 20 LF of piping	EA	5	\$	\$
58	1103.1	Point repairs for 18" or 21" Diameter, (10'-15' depth) including up to 20 LF of piping	EA	5	\$	\$
59	1103.1	Point repairs for 18" or 21" Diameter, (>15' depth) including up to 20 LF of piping	EA	2	\$	\$
60	1103.2	Extra length point repair, 8" or 10" Diameter, all depths	LF	100	\$	\$
61	1103.2	Extra length point repair, 12" or 15" Diameter, all depths	LF	45	\$	\$

2015 CIPP SANITARY SEWER CONSTRUCTION PACKAGE VI

Item No.	Spec. No.	Item Description	Unit of Measure	Qty.	Unit Price	Total Price
62	1103.2	Extra length point repair, 18" or 21" Diameter, all depths	LF	35	\$	\$
63	1103.4	Obstruction Removal by Remote Device, 8" or 10" Diameter, all depths	EA	5	\$	\$
64	1103.4	Obstruction Removal by Remote Device, 12" or 15" Diameter, all depths	EA	1	\$	\$
65	1103.4	Obstruction Removal by Remote Device, 18" or 21" Diameter, all depths	EA	1	\$	\$
66	1109	Service Reconnection, all depths (w/ remote control cut device)	EA	200	\$	\$
67	1109	Service Reconnection, (w/ open cut excavation, 0'-10' depth, including up to 10 LF of lateral)	EA	10	\$	\$
68	1109	Service Reconnection, (w/ open cut excavation, 10'-15' depth, including up to 10 LF of lateral)	EA	5	\$	\$
69	1109	Service Reconnection, (w/ open cut excavation, >15' depth, including up to 10 LF of lateral)	EA	5	\$	\$
70	2000	Urgent Mobilization	EA	5	\$	\$
71	4438	Flowable Fill	EA	50	\$	\$

Special Provisions to Technical Specifications

- A. Revision to Standard Specification Item No. 866 (Sewer Main Television Inspection)

866.1 Description: The statement to be replaced currently reads as follows:

The Contractor shall furnish all labor, materials, equipment, and incidentals to provide the televising and a NASSCO-(PACP) standard video, recorded in MPEG-1 format and written to DVD video, of sewer main and manholes utilizing a color, closed-circuit television inspection unit to determine their condition. The video shall include an inclinometer, visible on the video being viewed, noting the slope of the main being televised.

The above statement is to be replaced with the following:

The Contractor shall furnish all labor, materials, equipment, and incidentals to provide the closed-circuit televising. All inspections shall be in accordance with NASSCO PACP requirements and a NASSCO PACP database shall be submitted. All digital video files shall be color, closed-circuit TV in MPEG-1 format. The video shall include an inclinometer, visible on the video being viewed, noting the slope of the main being televised. The contractor shall provide all inspection data of mains and manholes written to a single storage device.

General Clarification: All references to DVD should be replaced with a single data storage device.

866.2 General: The statement to be replaced currently reads as follows:

After completion of the work specified in the contract documents, and prior to placement of the final course of asphalt or other final surface, the newly constructed or rehabilitated sanitary sewer main shall be televised immediately upon cleaning. Televising shall be observed by the Inspector or Engineer and Contractor, as the camera is run through the system. Any abnormalities such as, but not limited to, misaligned joints, cracked/defected pipe, rolled gaskets, shall be repaired by the Contractor solely at his expense. Sections requiring repair shall be re-televised to verify condition of repair. No additional compensation shall be provided for all needed repairs, re-cleaning, or re-televising efforts.

The above statement is to be replaced with the following:

Before construction of the sanitary sewer main, if required, the main shall be televised to locate laterals, observe existing conditions and immediately

Special Provisions to Technical Specifications

upon cleaning or clearing existing main. The Contractor shall furnish all labor, equipment, appliances, and materials necessary for cleaning the sewer system including the removal of all debris, solids, sand, grease, grit, etc. from the sewer and manholes to facilitate television inspection. Televising shall be observed by the Inspector or Engineer and contractor as the camera is run through the system and shall be in accordance with NASSCO PACP guidelines. No additional compensation shall be provided for cleaning, clearing, or re-televising.

After construction of the sanitary sewer main and prior to placement of the final course of asphalt or other final surface, the newly constructed sanitary sewer shall be televised immediately upon cleaning. Televising shall be observed by the Inspector or Engineer, and contractor as the camera is run through the system. Any abnormalities such as, but not limited to, misaligned joints, cracked/defected pipe, rolled gaskets, shall be repaired by the Contractor solely at his expense. Sections requiring repair shall be re-televised to verify condition of repair. No additional compensation shall be provided for all needed repairs, re-cleaning, or re-televising efforts.

866.3 Execution: The statement to be replaced currently reads as follows:

The television unit shall also have the capability of displaying in color, on DVD, pipe inspection observations such as pipe defects, sags, points of root intrusion, offset joints, service connection locations, and any other relevant physical attributes. Each DVD shall be permanently labeled with the following:

1. *Project name / SAWS Job # / Work Order #;*
2. *Date of television inspection;*
3. *Station to station location and size of sanitary sewer;*
4. *Street/easement location;*
5. *Name of Contractor;*
6. *Date DVD submitted;*
7. *DVD number;*
8. *SAWS Inspector Name.*

The above statement is to be replaced with the following:

The television unit shall also have the capability of displaying in color, on videos, pipe inspection observations such as pipe defects, sags, points of root intrusion, offset joints, service connection locations, and any other relevant physical attributes. Each video shall be permanently labeled at the beginning of the video with the following:

1. *Project name / SAWS Job # / Work Order #;*

Special Provisions to Technical Specifications

2. *Date of television inspection;*
3. *Manhole UNITIDs (as labeled on plans) and size of sanitary sewer;*
4. *Street/easement location;*
5. *Name of Contractor;*

Each video shall be submitted with the following information:

1. *Project name / SAWS Job # / Work Order #;*
2. *Date of television inspection;*
3. *Manhole UNITIDs (as labeled on plans and size of sanitary sewer;*
4. *Street/easement location;*
5. *Name of Contractor;*
6. *Date video submitted;*
7. *Data storage device number;*
8. *SAWS Inspector Name.*

All other language in this specification 866 remains in full force.

- B. Revision to Standard Specification Item No. 1103.4 (Measurement and Payment: Unit Prices - Point Repairs). The statement to be replaced currently reads as follows:

1. *Unit Prices-Point Repair.*
 - a. *Measurement for sewer line point of repair is on a unit price basis for each repair performed. Minimum length of pipe to be replaced for each repair, determined by depth of sewer line measured from natural ground to flow line at point of repair.*
 - b. *9 feet minimum length.*
 - c. *Measurement for sewer line extra length point repair is on a linear foot basis in excess of minimum replacement length specified above.*
 - d. *Payment for service lateral point repair is on a linear foot basis for all sizes of service laterals and for all depths (same unit price per linear foot, regardless of size and depth). No separate payment will be made for point repair done within the limits of a service lateral reconnection as defined in this Section. Minimum length of service lateral point repair is 3 feet.*
 - e. *Measurement for hand excavation: When authorized by the Inspector in locations where excavation by machine is not suitable, no direct payment shall be made for hand excavation.*

Special Provisions to Technical Specifications

- f. Measurement for abandonment of point repair by excavation: No direct payment shall be made for abandonment of point repair.*
- g. Measurement for abandonment of point repair by video inspection: No direct payment shall be made for abandonment of point repair by video inspection.*
- h. The cost of the following items of work are included in the unit prices for point repairs, and all associated work:*
 - (1) Excavation, embedment and backfill;*
 - (2) Hauling away and lawful disposal of excess excavated materials and debris;*
 - (3) Pipe, pipe fittings, adapters and concrete collars;*
 - (4) Smoke testing and any required retesting;*
 - (5) Restoration of site improvements, including sodding;*
 - (6) Post-cleaning video inspection;*
 - (7) All other necessary work to complete.*

The above statement is to be replaced with the following:

- 1. Unit Prices-Point Repair.*
 - a. Measurement for sewer line point of repair is on a unit price basis for each repair performed. Minimum length of pipe to be replaced for each repair, determined by depth of sewer line measured from natural ground to flow line at point of repair.*
 - b. 20 feet minimum length.*
 - c. Measurement for sewer line extra length point repair is on a linear foot basis in excess of minimum replacement length specified above.*
 - d. Payment for service lateral point repair is on a linear foot basis for all sizes of service laterals and for all depths (same unit price per linear foot, regardless of size and depth). No separate payment will be made for point repair done within the limits of a service lateral reconnection as defined in this Section. Minimum length of service lateral point*

Special Provisions to Technical Specifications

repair is 3 feet.

- e. Measurement for hand excavation: When authorized by the Inspector in locations where excavation by machine is not suitable, no direct payment shall be made for hand excavation.*
- f. Measurement for abandonment of point repair by excavation: No direct payment shall be made for abandonment of point repair.*
- g. Measurement for abandonment of point repair by video inspection: No direct payment shall be made for abandonment of point repair by video inspection.*
- h. The cost of the following items of work are included in the unit prices for point repairs, and all associated work:*
 - (1) Excavation, embedment and backfill;*
 - (2) Hauling away and lawful disposal of excess excavated materials and debris;*
 - (3) Pipe, pipe fittings, adapters and concrete collars;*
 - (4) Smoke testing and any required retesting;*
 - (5) Restoration of site improvements, including sodding; Separate measurement and payment will be made for paving restoration as detailed in Item "i" below.*
 - (6) Post-cleaning video inspection;*
 - (7) All other necessary work to complete.*
- i. Payment for paving restoration for each point repair located in HMA paving shall be measured as follows: width = existing pipe diameter + 4 feet and length = 20 feet. Paving restoration will be paid for on a square yard basis. (Item Nos. 205 and 206) The Contractor shall not be paid for said paving restoration if the project or work order for which point repair is to be made already requires full paving restoration.*

All other language in this specification 1103 remains in full force.

- END -