



**Olmos Basin Central Watershed Sewer Relief Line (C-3): Small Diameter Sewer Rehabilitation at the University of the Incarnate Word Project**  
**Solicitation Number: CO-00174**  
**Job No.: 18-4515**

**ADDENDUM 1**  
**April 30, 2018**

To Bidder 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.

<b>RESPONSES TO QUESTIONS</b>
-------------------------------

1. Please provide detail/drawing of siphon (24").  
*Available and relevant as-built documents are available on the SAWS website for this solicitation once the electronic disclaimer form is completed.*
2. Please provide access to existing condition videos  
*Available and relevant videos are available upon request once a Disclaimer form is submitted, which is located on the SAWS website for this solicitation.*
3. Please confirm approved product for manhole coatings  
*See #8 of Changes to the Specifications of this Addendum.*
4. Please confirm that Point repairs will be evaluated on the basis of the ability to repair the line without them, (Stringing a cable, etc.) And may not be performed.  
*That is correct. Point repairs have been included in the contract in case the line is not repairable via any other method.*
5. Please define the limits of the potholing item in terms of size, depth, etc.  
*The size of the hole for the purpose of observing heaving soils during pipe bursting depends on the depth and size of the utility line as well as depth and size of existing underground electrical conduits. Depths for other existing utilities vary and should be verified by Contractor prior to initiating pipe bursting activities. The Contractor will be responsible for pavement repair, as needed, and costs associated with surface restoration shall be included in the associated bid item.*
6. In the event that a MWBE sub needs to be substituted while the work is in progress, and SAWS delay the approval of a replacement, will working days be added to the contract time?  
*SAWS expectation is that Contractor choose subcontractors that they know can deliver the scope within budget and on schedule in accordance with the Contract Documents. Should there be a need to change subcontractors, the Contractor shall complete the SMWVB Change in Subconsultants Form and submit it to Marisol Robles, SMWVB Program Manager, for approval. No additional days will be added to the contract for delays in obtaining subcontractor approval. If the subcontractor approval must be expedited, this should be expressly stated within the request.*

## CHANGES TO THE SPECIFICATIONS

1. Remove the Contract Documents Table of Contents Rev 01/07/2018 and replace with the attached version.
2. In the Instructions to Bidders remove Item 24 and replace with the following:

To assist the San Antonio Water System Contracting Office in performing the bidder evaluation and subsequent recommendation of award, each bidder shall submit the following items with their bid, at the date, time and location defined for receipt of bids by the Invitation to Bidders. Failure to provide the required information within the specific time may result in determining a non-responsive bidder:

  - (a) An information packet on company showing experience, organization and equipment.
  - (b) A statement regarding ability to complete the project within the schedule taking into account existing commitments.
  - (c) Statement of Bidder's Experience form.
  - (d) A completed and signed W-9 Request for Taxpayer Identification Number and Certification form.
  - (e) In 2015, and made effective as of January 1, 2016, the Texas Legislature adopted House Bill 1295, which added section 2252.908 of the Government Code. The law states that a governmental entity or state agency may not enter into certain contracts with a business entity unless the business entity submits a disclosure of interested parties (Form 1295) to the governmental entity or state agency at the time the business entity submits the signed contract to the governmental entity or state agency. The Texas Ethics Commission has adopted rules requiring the business entity to file Form 1295 electronically with the Commission. The online filing application is available on the Texas Ethics Commission (TEC)'s website. A copy of the completed form, which will include a certification of filing that with a unique certification number, will be required with the signed contract. For additional information, Bidders may go to the Texas Ethics Commission website at the following link:  
[https://ethics.state.tx.us/whatsnew/elf\\_info\\_form1295.htm](https://ethics.state.tx.us/whatsnew/elf_info_form1295.htm)
  - (f) A baseline schedule in Microsoft Project format, outlining completion of the project within SAWS schedule requirements. Baseline schedule should be prepared using a notice to proceed (NTP) of June 8, 2018.
3. Remove Bidder's Checklist and replace with the attached version.
4. Insert the Statement of Bidder's Experience after the Bid Proposal. (From SAWS).
5. Remove the Bid Packet Checklist and replace with the attached version, which should be used by Bidders submitting a bid for this project.
6. Remove the Supplemental Conditions and replace with the attached version.  
Remove the Special Conditions and replace with the attached version.
7. Remove Specification Item No. 1010 Summary of Work and replace with the attached.
8. Remove the Supplemental Specification Item 910 Manhole Rehabilitation and replace with the attached.
9. Remove Special Provisions to Reconstruction of Sanitary Sewer by Cured-in-Place Pipe (Hot Water or Steamed Cured) Item No. 901 and replace with the attached.

## CHANGES TO THE PLANS

1. Sheet C-03; MH-02 shall be placed with center of the MH 5-feet from the end of the concrete encasement. Contractor shall verify end of concrete encasement prior to setting the manhole.

END OF ADDENDUM

This Addendum is twenty nine (29) page(s) in its entirety.

This Addendum, including these three (3) pages, is twenty nine (29) pages with attachments in its entirety. Attachments: Table of Contents, Bidder's Checklist, Statement of Bidder's Experience, Supplemental Conditions, Special Conditions, Specification Item No. 1010 Summary of Work, Supple Specification Item No. 910 Manhole Rehabilitation, and Special Provision to Specification Item No. 901 to Reconstruction of Sanitary Sewer by Cured-in-Place Pipe (Hot Water or Steamed Cured)

  
Lori K. Bender, P.E.  
Weston Solutions, Inc.  
Texas Registered Engineering Firm F-3123



**Contract Documents  
 Table of Contents**

BIDDING AND CONTRACT REQUIREMENTS	PAGE
Invitation to Bidders ( <i>Rev. 9/21/2017</i> ) . . . . .	. IV-1
Instructions to Bidders . . . . .	. IB-1
Workers' Compensation Insurance Coverage Requirements ( <i>Rev. 9/08/2015</i> ) . . . . .	. WC-1
Contractor's Bid Packet Checklist ( <i>Rev. 11/16/2017</i> ) . . . . .	. BC
Bid Proposal. . . . .	. BP-1
Statement of Bidder's Experience ( <b>Addendum 1</b> ). . . . .	. SBE-1
Proposal Certification ( <i>Rev. 3/2014</i> ). . . . .	. PC-1
Good Faith Effort Plan ( <i>Rev. 5/18/2017</i> ). . . . .	. GFEP-1
Conflict of Interest ( <i>Rev. 11/30/2015</i> ). . . . .	. Form CIQ
Wage Decisions . . . . .	. WR-1
General Conditions of the Contract ( <i>Rev. 6/15</i> ) . . . . .	. GC-1
Contract Agreement ( <i>Rev. 01/17/2018</i> ) . . . . .	. CA-1
Performance and Payment Bond ( <i>Rev. 01/17/2018</i> ) . . . . .	. PB-1
Contractor Suspension Policy Exhibit "B" ( <i>Rev. 3/14</i> ). . . . .	. SP-1
Contractor Security Procedures Exhibit "C" ( <i>Rev. 3/14</i> ) . . . . .	. SP-10
Request for Taxpayer Identification Number and Certification Form ( <i>Rev. 12/2014</i> ). . . . .	. W-9
Instructions for Completing the ACORD Certificate of Liability Insurance ( <i>Rev. 1/23/2017</i> ) . . . . .	. ICS
Special Provisions to the Technical Specifications . . . . .	. SPTS-1
Supplemental Conditions (Addendum 1). . . . .	. SS-1
Special Conditions (Addendum 1). . . . .	. SC-1
 (Separate Documents)	
CoSA STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION (Latest Edition)	
SAWS SPECIFICATIONS FOR WATER & SANITARY SEWER CONSTRUCTION (February 2017)	

## **TECHNICAL SPECIFICATIONS**

### **DIVISION 1: GENERAL REQUIREMENTS**

01010 Summary of Work (Addendum 1)

### **SUPPLEMENTAL SPECIFICATIONS**

Item 910 Manhole Rehabilitation (Addendum 1)  
Item 951 Potholing

### **CITY OF SAN ANTONIO ENVIRONMENTAL SPECIFICATIONS**

(SEPARATE DOCUMENTS: <http://www.sanantonio.gov/TCI/Current-Vendor-Resources/Standard-Specifications-and-Details>)

Item 801 Tree and Landscape Protection  
Item 802 Tree Pruning, Soil Amending  
Item 805 Trees Shrubs and Ground Covers

### **SPECIAL PROVISIONS TO COSA AND SAWS STANDARD SPECIFICATIONS**

#### ***SPECIAL PROVISIONS TO COSA STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION (LATEST EDITION)***

COSA SP530 Special Provisions to Barricades, Signs and Traffic Handling  
COSA SP540 Special Provisions to Temporary Erosion, Sedimentation and Water Pollution Prevention and Control  
COSA SP552 Special Provisions to Removing and Relocating Irrigation Systems  
COSA SP801 Special Provisions to Tree and Landscaping Protection  
COSA SP802 Special Provisions to Tree Pruning, Soil Amending, and Fertilization  
COSA SP805 Special Provisions to Trees, Plants, and Ground Covers

#### ***SPECIAL PROVISIONS TO SAWS SPECIFICATIONS FOR WATER & SANITARY SEWER CONSTRUCTION (LATEST EDITION)***

SAWS SP100 Special Provisions to Mobilization  
SAWS SP852 Special Provisions to Sanitary Sewer Manholes  
SAWS SP864-S1 Special Provisions to By-Pass Pumping  
SAWS SP866 Special Provisions to Sewer Main Television Inspection  
SAWS SP868 Special Provisions to Sanitary Sewer System Cleaning  
SAWS SP900 Special Provisions to Reconstruction of Sanitary Sewer by Pipe Bursting Process  
SAWS SP901 Special Provisions to Rehabilitation of Sanitary Sewer by Cured-In-Place Pipe (Hot Water or Steam Cured) (Addendum 1)

**CONTRACTOR'S BID PACKET CHECKLIST:**  
**Olmos Basin Central Watershed Sewer Relief Line (C-3)**  
**Small Diameter Sewer Rehabilitation at the University of the Incarnate Word**  
**SAWS Job No. 18-4515**  
**SAWS Solicitation No. CO-00174**

**Items to be included for Submittal with Bid:**

- Detailed Baseline Schedule
- Bid proposal and Acknowledgement of All Addendums
- Proposal Certification; page PC-1
- Bid Bond/Cashier's Check
- Statement on President's Executive Orders – Page IB 6 or 7
- Good Faith Effort Plan
- Conflict of Interest Questionnaire - Form CIQ (*Rev. 11/30/2015*)
- Proof of Insurability (Letter from Insurer or Sample Certificate of Insurance)
- Company Information Packet
- Statement regarding ability to complete the project
- Statement of Bidder's Experience
- Record of Performance/Similar Projects
- W-9

**STATEMENT OF BIDDER'S EXPERIENCE**

**Olmos Basin Central Watershed Sewer Relief Line (C-3): Small Diameter  
Sewer Rehabilitation at the University of the Incarnate Word Project  
SAWS Job No. 18-4515  
SAWS Solicitation No. 00174**

A. Please check the applicable boxes, and complete **all** the fields, below. In addition, please provide the supplemental information requested for each submitted project.

**If all fields are not completed, the Bid is at risk for being rejected due to non-responsiveness. It is not acceptable to indicate "See attached."**

**Project A-1 is to have been completed by the Bidder.**

- Project A- 1 demonstrates construction of a minimum of 1,000 LF by pipe-bursting construction for sanitary sewer mains 15" or larger in diameter.
- Project A-I was completed between 2012 and 2018.

*Project A-1 Description*

Name of Project: \_\_\_\_\_ Location: \_\_\_\_\_

Scope of Work: \_\_\_\_\_

Pipe Sizes: \_\_\_\_\_ Pipe Lengths: \_\_\_\_\_

Owner Name: \_\_\_\_\_ Owner Title: \_\_\_\_\_

Owner Phone Number: \_\_\_\_\_ Construction Cost: \_\_\_\_\_

Project Start Date: \_\_\_\_\_ Project End Date: \_\_\_\_\_

Project Description: \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Additional Information: \_\_\_\_\_

**Project A-2 is to have been completed by the Bidder.**

- Project A-2 demonstrates construction of a minimum of 1,000 LF by CIPP construction for sanitary sewer mains 15” or larger in diameter.
- Project A-2 was completed between 2012 and 2018.

*Project A-2 Description*

Name of Project: \_\_\_\_\_ Location: \_\_\_\_\_

Scope of Work: \_\_\_\_\_

Pipe Sizes: \_\_\_\_\_ Pipe Lengths: \_\_\_\_\_

Owner Name: \_\_\_\_\_ Owner Title: \_\_\_\_\_

Owner Phone Number: \_\_\_\_\_ Construction Cost: \_\_\_\_\_

Project Start Date: \_\_\_\_\_ Project End Date: \_\_\_\_\_

Project Description: \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Additional Information: \_\_\_\_\_



**Project A-3 is to have been completed by the Bidder.**

- Project A-3 demonstrates construction of a minimum of 1,000 LF by pipe-bursting or CIPP construction for sanitary sewer mains 15” or larger in diameter.
- Project A-3 was completed between 2012 and 2018.

*Project A-3 Description*

Name of Project: \_\_\_\_\_ Location: \_\_\_\_\_

Scope of Work: \_\_\_\_\_

Pipe Sizes: \_\_\_\_\_ Pipe Lengths: \_\_\_\_\_

Owner Name: \_\_\_\_\_ Owner Title: \_\_\_\_\_

Owner Phone Number: \_\_\_\_\_ Construction Cost: \_\_\_\_\_

Project Start Date: \_\_\_\_\_ Project End Date: \_\_\_\_\_

Project Description: \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Additional Information: \_\_\_\_\_

## **Supplemental Conditions**

### **Article VIII. - Contract Completion Time**

Section 8.6 Liquidated Damages for Failure to Complete on Time: of the General Conditions shall be amended as follows:

Add the following to the end of the paragraph:

Liquidated Damages, for the purpose of this contract, will be assessed at \$1,070 per day.

---

---

### **Article IV- Contract Administration**

Section 4.4 of the general conditions shall be amended to add as follows:

**CONTRACTORS** – The CONTRACTOR shall perform the Work with its own organization on at least 40% of the total original contract price.

The term to “perform the Work with its own organization” is defined herein as utilizing only:

- Workers employed and paid directly by the CONTRACTOR or a wholly owned subsidiary of the CONTRACTOR.
- Equipment owned by the CONTRACTOR or its wholly owned subsidiary.
- Rented or leased equipment operated by the CONTRACTOR’s, or its wholly owned subsidiaries, employees.
- For purposes of determining the value of the Work self-performed, the amount shall include all materials incorporated into the Work where the majority of the value of the Work involved in incorporating the material is performed by the CONTRACTOR’s own Organization, including wholly owned subsidiary; and
- Labor provided by staff leasing firms licensed under Chapter 91 of the Texas Labor code for non-supervisory personnel if the CONTRACTOR or wholly owned subsidiary maintains direct control over the labor.

The remaining sections of Article IV shall remain the same.

---

---

### **Article IV- Contract Administration**

Remove Section 4.9.2 of the general conditions and replace with the following:

The CONTRACTOR shall not, except upon procuring written consent from proper private parties, enter or occupy with men, tools, materials, or equipment, any privately owned land except for those on easements or rights of entry provided herein by SAWS. CONTRACTOR must submit a copy of the written consent from the land owner to SAWS.

The remaining sections of Article IV shall remain the same.

---

---

## Article V- Contract Responsibilities



~~Remove Section 5.3.9 of the general conditions and replace with the following:~~

Pre-Construction and Post-construction Videos – The CONTRACTOR shall provide pre-construction videos prior to commencement of the project in accordance with standard specification for construction Item No. 1114, Pre-Construction Videos. The video shall identify the condition of all existing surface features within the project limits, as well as all access ways, storage areas, and by-pass pumping routes. The CONTRACTOR shall submit two copies of the completed video prior to request for mobilization. The CONTRACTOR shall also submit two (2) copies of the completed post-construction video of all surface features within the project’s limits, access ways, storage areas, and by-pass pumping routes within ten (10) days following the date of substantial completion.

The remaining sections of Article V shall remain the same.

---

---

## Article V- Contract Responsibilities



~~Remove Section 5.12.2 of the general conditions and replace with the following:~~

The CONTRACTOR shall review for compliance with the Contract Documents, approve and submit to the ENGINEER Shop Drawings, Product Data, Samples and similar submittals required by the Contract Documents in such sequence as to cause no delay in the Work or in the activities of the OWNER or of separate CONTRACTORS. Submittals which are not marked as reviewed for compliance with the Contract Documents and approved by the CONTRACTOR will be returned by the ENGINEER without action. CONTRACTOR shall submit to ENGINEER for review and approval or for other appropriate action, five (5) hard copies and/or electronic copies, if requested by COI, of all Shop Drawings, Product Data, Samples or similar submittals bearing a stamp or specific written indication that CONTRACTOR has satisfied the CONTRACTOR’s responsibilities under the Contract Documents with respect to his review of his submission. All Shop Drawings, Product Data, Samples and similar submittals in regards to Pipeline Projects shall be provided to the ENGINEER within the time frame as listed in the Special Conditions. All other submittals shall be submitted to the ENGINEER at the pre-construction meeting.

- .1 By approving and submitting Shop Drawings, Product Data, Samples and similar Submittals, the CONTRACTOR represents that the CONTRACTOR has determined and verified materials, quantities, specified performance criteria, installation requirements, catalog numbers, field measurements and filed construction criteria related thereto, or will do so, and has checked and coordinated the information contained within such submittals with the requirements of the Work and of the Contract Documents.
- .2 CONTRACTOR shall give ENGINEER specific written notice of each variation that the Shop Drawings, Product Data, Samples and similar submittals may have from the requirements of the Contract Documents, and, in addition, shall cause a specific

CONTRACTOR notation to be made on each Shop Drawing, Product Data, Sample and similar submittals submitted to Consultant for review, approval, or other appropriate action highlighting each such variation.

- .3 The CONTRACTOR shall perform no portion of the Work for which the Contract Documents require submittal and review of Shop Drawings, Product Data, Samples or similar submittals until the respective submittal has been approved by the ENGINEER. The ENGINEER will review and return such submittals within five (5) working days or within a reasonable period so as to not delay the project.
- .4 ENGINEER's review, approval, or other appropriate action regarding CONTRACTOR's submissions will be only to check conformity with the design concept of the Project and for compliance with the information contained in the Contract Documents and shall not extend to means, methods, techniques, sequences or procedures of construction (except where a specific means, method, technique, sequence or procedure of construction is indicated in or required by the Contract Documents) or to safety precautions or programs incident thereto. The review and approval of a separate component item will not indicate approval of the assembly into which the item is functionally integrated. CONTRACTOR shall make corrections required by ENGINEER, and shall return the required number of corrected copies of Shop Drawings, Product Data, Samples or similar submittals to the CONTRACTOR. CONTRACTOR may be required to resubmit as required revised Shop Drawings, Product Data, Samples or similar submittals for further review and approval. CONTRACTOR shall direct specific attention in writing to any new revisions not specified by CONTRACTOR on previous CONTRACTOR submissions.

The remaining sections of Article V shall remain the same.

## Special Conditions

Special Project procedures are required from the CONTRACTOR as specified herein. The CONTRACTOR shall implement and maintain these procedures at the appropriate time, prior to and during performance of the work. CONTRACTOR shall complete the Work in a manner that does not unreasonably impact the University of the Incarnate Word campus, Headwaters Sanctuary, The Village, including impact to student activities, campus construction, campus amenities, athletic fields, vegetation, and pedestrian and vehicular access.

The following special construction conditions and requirements shall apply to the Project:

---

- I. **Consent Decree Notice Provision** – The San Antonio Water System (“SAWS”), the United States of America and the State of Texas have entered into a Consent Decree in Civil Action No. 5:13-cv-00666- DAE, United States of America and State of Texas v. San Antonio Water System, in the United States District Court for the Western District of Texas, San Antonio Division (the “Consent Decree”). A copy of the Consent Decree is available at

<http://www.saws.org/Infrastructure/EPA/download.cfm>

Work performed pursuant to this contract is work that SAWS is required to perform pursuant to the terms of the Consent Decree. In the event of any conflict between the terms and provisions of this Consent Decree Notice Provision and any other terms and provisions of this Contract or the Contract Documents, the terms and provisions of this Consent Decree Notice Provision shall prevail.

- A. **Retention of documents** – CONTRACTOR shall retain and preserve all non-identical copies of all documents, reports, research, analytical or other data, records or other information of any kind or character (including documents, records, or other information in electronic form including, but not limited to e-mails) in its or its sub-contractors’ or agents’ possession or control, or that come into its or its sub-contractors’ or agents’ possession or control, and that relate in any manner to this contract, or the performance of any work described in this contract (the “Information”). This retention requirement shall apply regardless of any contrary corporate or institutional policy or procedure or legal requirement. CONTRACTOR, CONTRACTOR’s sub-contractors and agents shall retain and shall not destroy any of the Information until such time as CONTRACTOR has received written approval from the General Counsel of SAWS that the Information or any part of the Information may be destroyed. CONTRACTOR shall, within 30 days after receipt of a written request by SAWS, deliver the Information to SAWS. CONTRACTOR shall instruct and require its agents and sub-contractors performing any part of the work described in this contract to comply with the requirements of this paragraph.

B. Notification of events that may cause delay – If any event occurs that may delay performance by CONTRACTOR, or CONTRACTOR’s agents or sub-contractors of any work or obligation of any kind under this contract, CONTRACTOR shall provide notice in accordance with the Notice Provisions of this contract to SAWS within two (2) business days of the date CONTRACTOR or CONTRACTOR’s agents or sub-contractors first knew that the event might cause a delay. CONTRACTOR shall provide a written explanation and description of the reasons for the delay, the anticipated duration of the delay, all actions taken or to be taken to prevent or minimize the delay, and a schedule for implementation of any measures to be taken to prevent or mitigate the delay or the effect of the delay. **TIME IS OF THE ESSENCE** in the performance of the requirements of this paragraph and of any work to be performed by the CONTRACTOR in this contract.

C. Liability for stipulated penalties – The Consent Decree provides that the United States of America, the United States Environmental Protection Agency and the State of Texas may assess stipulated penalties against SAWS upon the occurrence of certain events. To the extent that CONTRACTOR or CONTRACTOR’s agents or sub-contractors cause or contribute to, in whole or in part, the assessment of any stipulated penalty against SAWS, CONTRACTOR agrees that it shall pay to SAWS the full amount of any stipulated penalty assessed against and paid by SAWS that is caused or contributed to in whole or in part by any action, failure to act, or failure to act within the time required by any provision of this contract. CONTRACTOR shall also pay to SAWS all costs, attorney fees, expert witness fees and all other fees and expenses incurred by SAWS in connection with the assessment or payment of any such stipulated penalties, or in contesting the assessment or payment of any such stipulated penalties. In addition to any and all other remedies to which SAWS may be entitled at law or in equity, CONTRACTOR expressly authorizes SAWS to withhold all amounts assessed and paid as stipulated penalties, and all associated costs, fees, or expenses from any amount unpaid to CONTRACTOR under the terms of this contract, or from any retainage provided in the contract.

## **II. Special Project Procedures**

A. Working hours – Working hours in the City of Alamo Heights are Monday through Friday 8:00 AM to 5:00 PM. CONTRACTOR shall coordinate with Pat Sullivan, Alamo Heights Public Works Director, at 210-822-5106, for permission to work in Alamo Heights outside of those hours. The CONTRACTOR shall also coordinate with SAWS to ensure an inspector is on site and with any other property owners within the project limits.

Work around the Sisters of Charity Facilities (Segments B-05B, B06, and B-07) must comply with the following:

1. CONTRACTOR cannot work from 9:45 AM to 10:45 AM on any.
2. CONTRACTOR shall coordinate additional work hours with the Sisters of Charity Facilities staff for an extensions of weekday working hours that are outside of the normal 8:00 AM to 5:00 PM Schedule

B. Coordination with Others – The site will require the CONTRACTOR to coordinate and provide advance notice of work to the University of the Incarnate Word (UIW) campus, The Village, property owner at Patterson Avenue, and City of Alamo Heights, as required for work within the various areas of the project so that the project can be completed in an orderly and coordinated manner, reasonably free of significant disruption to any party. The OWNER can take part in coordination efforts and community outreach, however, it is the responsibility of the CONTRACTOR to coordinate with the OWNER and notify affected campus personnel accordingly.

<u>City of Alamo Heights</u> Jason Lutz Community Services Director 210-832-2250 <a href="mailto:jlutz@alamoheightstx.gov">jlutz@alamoheightstx.gov</a>	<u>City of Alamo Heights</u> Pat Sullivan Public Works Director 210-822-1506 <a href="mailto:psullivan@alamoheightstx.gov">psullivan@alamoheightstx.gov</a>	<u>University of the Incarnate Word</u> Steve Heying Director of Facilities 210-829-6023 <a href="mailto:heyings@uiwtx.edu">heyings@uiwtx.edu</a>
<u>The Village of Incarnate Word</u> Ephraim Castilla, Maintenance Supervisor 210-829-7561, x136 Cell 210-218-3226 <a href="mailto:Ephraim.Castilla@iwretire.org">Ephraim.Castilla@iwretire.org</a>	<u>Sisters Charity of the Incarnate Word</u> Jose Guajardo Facilities Manager 210-685-3037	<u>Headwaters at Incarnate Word</u> Alex Antram Executive Director 210-828-2224 x232 <a href="mailto:Alex.antram@amormeus.org">Alex.antram@amormeus.org</a>

The CONTRACTOR agrees to cooperate and coordinate its work with the work conducted by other contractor(s) within the project area so that this project can be completed in an orderly and coordinated manner, reasonably free of significant disruption to any party. Without limitation of the foregoing, CONTRACTOR understands and agrees that access areas to the project site may be utilized by other contractor(s). All parties shall be solely required and obligated to coordinate and cooperate with each other to accomplish the scope of work required by their respective contracts, meaning SAWS shall have no duty to administer, perform or supervise the coordination for the use of the project site by all contractors.

CONTRACTOR shall coordinate construction access with the Sister of Charity and the University of Incarnate Word as applicable. Approved routes shall be adequately marked with signs and traffic control devises for the benefit of pedestrians and vehicular traffic.

The Contractor shall coordinate and maintain continuous access to the northeast corner of the Retirement Center during construction of line segment B-07. If necessary, a temporary sidewalk will be constructed. (No Separate Pay Item)

Limits of Construction / Temporary Safety Fencing – The limits of construction are bound by the Right-of-Entry agreements obtained by the OWNER for the project and existing sanitary sewer easements. Orange safety fencing shall be installed and maintained around all construction access areas and construction zones where public access is anticipated. The orange safety fence shall be used to create a buffer zone around the areas of construction activity and access points. OWNER may request additional fencing as needed to inhibit public access. Additional fencing as requested shall be at no separate pay. Construction limits/fencing shall not extend outside the ROE or easements and right-of-way shown on the drawings. Safety fencing shall remain in place and upright until the site has been fully restored upon completion of construction activities in that area or construction phase.

C. City of Alamo Heights Permit – CONTRACTOR shall be responsible for obtaining and complying with all provisions of the permit(s) from the City of Alamo Heights (COAH) to work in the COAH right-of-way.

D. Site Restoration – CONTRACTOR shall be responsible for protecting existing features during construction. Any features damaged shall be repaired or replaced at no additional cost to OWNER. CONTRACTOR is responsible for restoration of all disturbed areas within the limits of the ROE and existing easements. All existing campus features affected and/or damaged by construction activities shall be repaired and replaced to pre-construction condition. This shall include, but not be limited to, paving, concrete and stone curbing, lawn areas, sports field areas, irrigation and utilities (wiring and water lines). All areas disturbed from their original conditions by construction activities shall receive 4 inches of loose topsoil, regraded, and restored with native seed mix as specified herein. CONTRACTOR shall immediately restore the Project areas to pre-construction condition upon completion of each work activity.

E. Flood Protection – CONTRACTOR is responsible for protection of work, material, and equipment prior to rain events. The project site is susceptible to quickly rising water in response to rainfall events within the Olmos Basin. No material (construction equipment, waste, spoils, etc.) shall be stored in the 100-year floodplain longer than the end of the shift in which it was generated. CONTRACTOR is solely responsible for protecting trenches, pits, materials and equipment from damage/inundation of flood waters.

F. Archeological Monitoring – The OWNER has obtained an Antiquities Permit from the Texas Historical Commission for this project. Any open-trenching will require that the CONTRACTOR coordinate with the project archeologist for conducting archeological monitoring during construction. If the CONTRACTOR encounters any archeological deposits during construction operations, the CONTRACTOR must stop excavation immediately and contact the City of San Antonio Historic Preservation Officer at 210-207-



7306 or 210-207-3327 for an archaeological investigation. The CONTRACTOR cannot begin excavating again without written permission from the City of San Antonio. This is an instance where SAWS has the authority to use the Interim Demobilization/Remobilization bid item.

G. Bypass Pumping – CONTRACTOR is responsible for maintaining wastewater flow throughout construction. CONTRACTOR shall prepare a detailed bypass pumping plan in accordance with Special Specification Item 864-S1 Bypass Pumping Small Diameter Sanitary Sewers.

For bypassing of segments of Line “B”, CONTRACTOR shall run bypass pumping piping around the Village buildings, aligning pipe through the western-most parking area of the Village buildings. CONTRACTOR shall restore the parking area with 4-inches of flexible base material (caliche/limestone).

Bypass pump systems shall be in sound-attenuated enclosures and any lighting shall not disturb surrounding facilities.

Bypass discharge piping that crosses access roads or access to parking areas shall be adequately protected by use of drivable ramps that are able to withstand anticipated highway truck loads and provide continuous service for pumped bypass flow.

CONTRACTOR shall not be allowed to utilize parallel existing City of Alamo Heights 15-inch sanitary sewer for bypassing of the 18-inch sanitary sewer. Likewise, flow management or bypass pumping of the 15-inch Alamo Heights sanitary sewer cannot be discharged into the 18-inch sanitary sewer.

H. Special Construction Deadlines

1. Submit Project submittals to the SAWS Project Manager to include the bypass pumping plan, CIPP, pipe bursting, manholes, and other submittals required to perform the work within UIW within five (5) business days of receiving the Notice of Intent of Award (NOIA).
2. Submit Certificates of insurance to SAWS Contracts Department within 3 days of receiving the NOIA.
3. Deliver signed construction contract and CCTV subcontractors to SAWS Contracting no later than May 25, 2018.
4. Ensure attendance at pre-construction meeting June 7, 2018. CONTRACTOR shall bring final construction schedule submittal for review and discussion to the pre-construction meeting.
5. Be prepared to mobilize to the UIW Campus by June 11, 2018. Final Construction Schedule to be submitted to ENGINEER on June 11, 2018.

A detailed construction schedule must be submitted as part of the bid proposal. The Contractor must submit a Work Progress Schedule within 10 days of Notice to Proceed and monthly thereafter

### **III. Coordination with the University of the Incarnate Word (UIW)**

A. The CONTRACTOR will perform Rehabilitation and replacement of existing 15 inch and 18 inch sewer lines directly to the west of the newly renovated Student Engagement Center (SEG). Potholing will be performed to locate and expose subsurface power and utility lines in the section designated for pipe bursting along the 18 inch line. Cured in Place pipe has been proposed for the 15 inch line. The SEG will be open year round for cafeteria service, summer seminars, and meetings.

B. Pedestrian access to the SEG shall be continuously maintained. Temporary 6-foot chain link fencing with privacy screen shall be installed around hydro-vac trucks and equipment required to perform potholing and for manhole excavation and installation. Pothole excavations shall be covered and temporary fencing moved once pothole excavation has been completed. The CONTRACTOR shall coordinate with the UIW staff on their knowledge of utility line locations and to obtain related engineering drawings and utility layout maps.

C. The Contract Documents require that the first three phases of the project be completed by August 10 as the student population expands at a very high rate after this date. These phases included submittal, approval and installation of bypass pumping systems, pothole excavation, 467 feet of 18 inch pipe bursting, 175 feet of 18 inch cured in place pipe, 553 feet of 15 inch cured in place pipe, one manhole installation and one manhole rehabilitation.

D. If deemed necessary by the CONTRACTOR, discussions with SAWS and UIW regarding extended working hours during the week, at night and weekends could occur to facilitate meeting this deadline. The CONTRACTOR shall monitor each utility and power line crossing to observe soil heaving around these crossings as the pipe-bursting hammer passes beneath each pothole and shall evacuate heaved soils if heaved soils cover the lines during pipe bursting operations.

E. Vehicular traffic flow shall be continuously maintained to the west of the landscape island that contains the transformer west of the SEG. Vehicles will be prevented from driving to the east of the landscape island and in front of the SEG during construction. Manhole excavation and installation is near the area where vehicular access is needed to the west of the transformer landscape island.

F. The CONTRACTOR shall coordinate with the UIW staff to review the current delivery schedule and identify the most advantageous times for potholing and manhole excavation and installation. Truck deliveries are made during weekdays to the receiving

station located at the northwest corner of the SEG. Larger delivery trucks may have travel to the east of the building to turn around and back into the SEG receiving area. Access to this receiving area shall be continuously maintained during weekdays.

G. Bypass discharge piping that originates from the existing manholes (10780 and 921936) at the southern project limit and within the parking lot to the south east of the southern project limit will have to cross the access road to the south and east of the President's Building. These discharge pipes shall be adequately protected by use of driveable ramps to withstand the anticipated highway truck loads received by the SEG and provide continuous service for the transfer of pumped bypass flow. The manhole in the parking lot to the southeast of manholes 10780 and 921936 receives sewage flow from the southern half of the SEG.

H. The CONTRACTOR shall inform the SAWS Inspector, ENGINEER and UIW staff immediately should scheduling of pothole and manhole excavation cause access issues.

## **END OF SPECIAL CONDITIONS**

**SECTION 01010**  
**SUMMARY OF WORK**

PART 1 - GENERAL

1.01 RELATED DOCUMENTS:

- A. Drawings and general provisions of Contract, including General Conditions of Contract, Special Conditions, Supplementary Specifications, and Division 1 requirements.

1.02 General

A. LOCATION OF PROJECT

1. The **Olmos Basin Central Watershed Sewer Relief Line (C-3): Small Diameter Rehabilitation at the University of the Incarnate Word** is located within the campus of the University of the Incarnate Word located to northwest of the intersection of E. Hildebrand Avenue and Broadway Street in Central San Antonio. It also extends north of the UIW Campus beyond the Village at Incarnate Word to Patterson Ave.
2. The project extends across both City of San Antonio and City of Alamo Heights city limits.

PART 2 - PROJECT SCOPE

2.01 SCOPE OF WORK

- A. This section describes the Project in general and provides an overview of the extent of the Work to be performed by the CONTRACTOR. Detailed requirements and extent of Work is stated in the applicable Specification Sections and shown on the Drawings. CONTRACTOR shall, except as otherwise specifically stated herein or in any applicable part of these Contract Documents, provide and pay for all labor, materials, equipment, tools, construction equipment, and other facilities and services necessary for proper execution, testing, and completion of the Work.
- B. There are no recent videos of certain line segments to be rehabilitated. The current rehabilitation schedule is based on existing videos and engineering judgement. At the start of this Contract the CONTRACTOR shall clean and televise the line segments depicted in the rehabilitation schedule contained in the Contract Documents. Based on the results of the TV the recommended rehabilitation plan may be altered.
- C. Some portions of the project require special work hours. Reference the Special Conditions.
- D. The Work shall include furnishing all tools, labor, materials, equipment, and miscellaneous items necessary for the complete construction of the following sanitary sewer improvements:
1. The various sanitary sewer improvement items include, but are not limited to, the following:
    - a. Cleaning and television inspection of approximately 554 LF of 15-inch sanitary sewer and 1,714 LF of existing 18" sanitary sewer line and 88 LF of an 24-inch siphon.
    - b. Point Repairs as needed to facilitate the cleaning and television inspection of the lines as well as the rehabilitation of the lines.
    - c. Cured-in-Place Pipe (CIPP) installation of approximately 554 LF of 15-inch sanitary sewer and 88 LF of 24-inch pipe (including the siphon).

- d. Pipe Bursting of approximately 864 LF of 18-inch sanitary sewer line.
- e. Rehabilitation of 10 Manholes.
- f. Reconstruction of 1 Manhole.
- g. Installation of 4 new doghouse 5-foot diameter manholes.
- h. By-pass pumping as required to perform the above mentioned work.
- i. Restoration of the site to pre-existing conditions or better.

E. Point Repairs

1. The quantities listed in the Bid Form are estimated quantities. The actual quantities shall be determined by the television inspection.
2. Due to the unknown nature of the point repairs, additional quantities have been added to the bid form that are not reflected in the plans. CONTRACTOR shall only be paid for authorized amount used.

F. Site Restoration

1. All site restoration is considered incidental to the work and should be included in the unit price of the associated work. No separate pay shall be made for landscaping, irrigation, sidewalks, or pavement restoration.
2. It is the CONTRACTOR's responsibility to protect all existing features.

## 2.02 SEQUENCE OF WORK

A. General

1. The sequence/phasing of the work is outlined in the plans.
2. The phases shall be worked in sequential order from Phase I to Phase VIII. Any deviations must be requested by the CONTRACTOR and approved by the Owner prior to commencement of work.
3. All work must be completed for a phase prior to the commencement of work on the next phase.

B. Work Within a Phase

1. For all phases except Phase I, the work within the Phase shall proceed in the following order as needed:
  - a. Site Prep
  - b. By-Pass pumping set up
  - c. Cleaning and television inspection of the line
  - d. Point Repairs (as needed)
  - e. CIPP/Pipe Bursting as directed.
  - f. Manhole Rehabilitation/Reconstruction
  - g. Site Restoration
  - h. By-Pass pumping removal (unless needed for next phase)

C. Sequence of Work

1. Phase I
  - a. Marking of easements
  - b. Installation of the proposed 5-foot diameter doghouse manholes, without the bench at the bottom.
2. Phase II
  - a. Line Segments B-01 and B-02.

- b. Manholes 921936, 921936A, and 9932
    - c. By-Pass Pumping Phase I
  3. Phase III
    - a. Line Segments B-03A, and B-03B and B-04
    - b. Manholes 10780 and 10781
    - c. By-Pass Pumping Phase II
    - d. Work in the above three phases shall be completed by **August 10, 2018**
  4. Phase IV
    - a. Clean and TV of Line Segments B-05A, B-05B, B-06 (Under Building), B-07, and B-08 (Siphon)
    - b. Rehabilitation of Line Segments B-05A and B-05B
    - c. Manhole 9977
    - d. By-Pass Pumping Phase IIIA
  5. Phase V
    - a. Line Segment B-06 (Under Building)
    - b. Manhole 9977A
    - c. By-Pass Pumping Phase IIIB
  6. Phase VI
    - a. Line Segment B-07
    - b. Manhole 22210A
    - c. By-Pass Pumping Phase IIIB
  7. Phase VII
    - a. Line Segment B-08 (Siphon)
    - b. Manhole 22211
    - c. By-Pass Pumping Phase IIIB
  8. Phase VIII
    - a. Line Segments B-09A, B-09B, and B-09C
    - b. Manholes 22210 and 10782
    - c. By-Pass Pumping Phase IVA and IVB
- D. By-Pass Pumping Plan
  1. The CONTRACTOR is responsible for the By-Pass Pumping plan that shall support the construction sequence as listed above. A By-Pass Pumping Phasing Diagram has been included in the plans for reference. The CONTRACTOR shall be responsible for the development, submittal, and approval of his own by-pass pumping plan to comply with Specification 864-S1 and the Construction Phasing.
  2. The By-Pass Pumping Plan is required to have all of the pipes, pumps, equipment, materials, etc. placed within the existing sanitary sewer easements. The exception to this is the piping, where it is required to go around buildings, driveways, or parking lots. At no time shall the By-Pass Pumping piping be allowed to cross the San Antonio River.
  3. The By-Pass Pumping Plan must be submitted as listed in the Special Conditions.

END OF SECTION 01010

This page intentionally left blank.

## SUPPLEMENTAL SPECIFICATION

### ITEM 910

#### MANHOLE REHABILITATION

##### 910.1 Description

This item shall govern rehabilitation of manholes complete and in place and the materials used therein, including cleaning, interior surface restoration, priming the prepared surface and coating all interior surfaces including bench and invert of the manhole for the prevention and/or reduction of hydrogen sulfide corrosion deterioration and the repair thereof. It shall also include all required by-pass pumping necessary to complete the work if such bid item is not included separately in the contract documents. Should the CONTRACTOR elect to use any materials other than those contained herein, please complete the information requested in the Product Submittal Application. See SAWS website under Business Center for the Product Submitted Application forms.

##### 910.2 Certification

Manufacturer shall certify that Applicator has been trained and approved in the handling, mixing and application of the products to be used. Equipment to be used for applying the products by the Applicator shall be certified and approved by the Manufacturer. Five (5) recent references of Applicator indicating successful application of proposed liner on projects of similar size and scope shall be submitted by CONTRACTOR. *All contractors doing this work must have a minimum of 15,000 vertical feet installed within the state of Texas.*

##### 910.3 Protection of Debris

The CONTRACTOR shall place covers over sewer line inverts to prevent extraneous materials from entering sewer lines.

##### 910.4 Manhole Ring and Cover Adjustment

If identified in the Contract documents for the replacement and/or adjustment of the manhole ring and cover to match the existing grade such work shall conform and be paid under Item 851 "Adjusting Existing Manholes" in the San Antonio Water System Standard Specifications for Construction. This work shall be performed prior to any lining work done in accordance to this specification.

##### 910.5 Surface Preparation

Proper surface preparation procedures must be followed to ensure adequate bond strength to any surface to be coated. Applicator shall inspect all surfaces specified to receive a liner prior to surface preparation. Applicator shall notify OWNER of any noticeable disparity in the surfaces which may interfere with the proper preparation or application of the repair mortar and/or liner(s). Concrete that is not sound or has been damaged by chemical exposure shall be removed to a sound, concrete surface. If any part of the manhole wall is missing, the CONTRACTOR shall rebuild this area with necessary reinforcement and concrete. If the missing manhole wall is of sufficient size, greater than one and a half feet in diameter or if a huge void exists behind the wall, the applicator and/or CONTRACTOR shall notify the OWNER immediately upon discovery prior to the continuation such work. All repair work shall have reinforcement matching the existing and any voids shall be filled with grout. When repairing manholes, the breaking of a sound manhole wall may be necessary to expose a small portion of the existing reinforcement for the tying of the new reinforcement in the rebuilding area. Once the reinforcement is tied together and the concrete is placed and troweled smooth, the concrete shall be allowed to cure for three days prior to preparing the entire manhole for lining. All contaminants including: all oils, grease,



incompatible existing coatings, waxes, form release, curing compounds, efflorescence, sealers, salts, or other contaminants shall be removed. Surface preparation method(s) should be based upon the conditions of the substrate and the requirements of the liner to be applied.

Surface to receive liner shall be cleaned and abraded to produce a sound concrete surface with adequate profile and porosity to provide a strong bond between the protective coating and substrate. High pressure cleaning with a minimum of 4,000 psi, and 4 gallons per minute using a rotating pencil nozzle, shall be used to clean and free all foreign material within the manhole. Detergent water and cleaning or muratic acid shall be used when grease and oil are present. All materials resulting from the cleaning of the manhole shall be removed prior to application of coating.

Active water infiltration shall be stopped by using a cementitious water plug or hydroactive grout such as Strong-Seal Strong-Plug, Quadex Hydra-Plug or approved equal, which is compatible with the specified coating. Prepared surfaces should be tested after cleaning but prior to application of the coating, if a specific pH or moisture content of the concrete is required according to manufacturer's recommendations.

### **910.6 Product Handling and Liner Conditions**

Protective-coating materials are to be handled according to their material safety data sheets. Materials are to be kept dry, protected from weather and stored under cover.

Repair/under-coat materials must be accepted and approved by the protective coating manufacturer for compatibility with the specified liner and shall be used to fill voids, structurally reinforce and/or rebuild surfaces, etc. as determined necessary by the ENGINEER and liner applicator.

### **910.7 Materials and Components**

(1) Concrete: Concrete shall conform to City of San Antonio Standard Specifications for Public Works Constructed dated October 1995 (COSA) Item 300 – Concrete (concrete class “A”).

(2) Mortar shall be composed of one part Portland Cement, one part masonry cement (or ¼ part hydrated lime), and masonry sand equal to 2-1/2 to 3 times the sum of the volumes of the cements and lime used.

(3) Unless otherwise specified, all grouting shall be done with non-shrinking grout.

Non-shrinking Grout: Non-shrinking grout shall be furnished factory premixed so only water is added at the job site. Grout shall be mixed in a mechanical mixer. No more water shall be used than is necessary to produce a flowable grout. All proportioning and mixing of the components shall be in accordance with manufacturer's recommendations.

(4) Reinforcement: Reinforcing steel shall conform to the requirements of COSA Item 301 – Reinforcing Steel.

(5) Brick: Replacement brick for ring adjustment courses shall be of first quality, sound, kiln fired, and new unbroken brick.

(6) Coating: After all structures and manholes have been rehabilitated, and all testing has passed, they shall be considered watertight. Afterward, they shall be coated with a SAWS-approved sewer coating.

For rehabilitated manholes and structures, CONTRACTOR shall adhere to the requirements for internal coatings as listed in SAWS current Specification Item No. 855.4.6, Reconstruction of Existing Manholes.

### **910.8 Liner Application**

Application procedures shall conform to the recommendations of the liner manufacturer, including material handling, mixing, environmental controls during application, safety, and equipment. The liner application equipment shall be specifically designed to accurately apply the specified liner materials and shall be regularly maintained and in proper working order. The liner material must be applied by a Certified Applicator of the liner manufacturer. The liner shall be applied to minimum thickness or as specified by the ENGINEER according to the OWNER's requirements and manufacturer's recommendations. Temperature of the surface to be coated shall be maintained between 40 deg F and 120 deg F during application. Prior to and during application, care should be taken to avoid exposure of direct sunlight or other intense heat source to the structure being coated. Where varying surface temperatures do exist, care should be taken to apply the liner when the temperature is falling versus rising (later afternoon into evening versus early morning into afternoon).

All interior surfaces shall be lined/coated including but not limited to all walls, inverts, benches and ceilings of each manhole or structure box as specified. Any deviation shall be approved by SAWS for individual consideration.

### **910.9 Site Cleaning**

The construction site designated shall be kept clean from accumulations of waste materials, rubbish and other debris resulting from the manhole rehabilitation process. Any accumulation shall be removed from and about the premises along with any tools, construction equipment and machinery and surplus materials. Once complete, the site shall be restored to the original condition not designated for alterations by contract documents.

### **910.10 Measurements**

Manhole Rehabilitation as described herein shall be measured by the vertical feet of manhole height, regardless of the amount of horizontal surfaces to be coated.

Coating of new manholes and structures will not be paid separately.

### **910.11 Testing**

- I. Testing for manhole rehabilitation – Structural Cementitious Liner shall consist of the following:
  1. Visually verify the absence of leaks.
  2. Perform an exfiltration test.
    - a. For manholes 0 to 6 foot deep, if water loss is 1-inch or less in five minutes, manhole passes the exfiltration test.
    - b. For manholes over 6 foot deep, if water loss is 1-inch or less plus 1/8-inch per additional foot of depth in five minutes, manhole passes the exfiltration test.
  3. Perform a vacuum test conforming to item 852.4 of the San Antonio Water System Standard Specifications for Construction at randomly selected manholes on every five manholes that are rehabilitated.
- II. Testing for manhole rehabilitation – Non structural lining high sulfate and structural lining high sulfate shall be tested as described above with the following additional requirement.
  1. For every five manholes that are rehabilitated, one manhole shall be inspected using high-voltage holiday detection equipment. All detected holidays shall be marked and repaired by abrading the

coating surface with grit disk paper or other hand tooling method. After abrading and cleaning, additional protective coating material shall be applied to the repair area. All touch-up repair procedures shall follow the protective coating manufacturer's recommendations.

If a manhole fails to pass one of the above tests, it shall be repaired in accordance with the manufacturer's recommendation and re-tested. It shall not be accepted until it passes all tests. All repairs and re-testing shall be at no additional cost to SAWS. If more than 20 percent of the manholes fail to pass any testing requirement, all manholes shall be vacuum tested and holiday tested as appropriate at no additional cost to SAWS.

#### **910.12 Warranty**

CONTRACTOR shall warrant all work against defects in materials and workmanship for a period of two (2) years, unless otherwise noted, from the date of final acceptance of the projects. Applicator shall, within a reasonable time after receipt of written notice thereof, repair defects in material or workmanship which may develop during said two (2) year period, and any damage to other work caused by such defects or the repairing of same, at their own expense and without cost to the OWNER.

#### **910.13 Payment**

##### **For Coating/Rehabilitation of Existing Manholes:**

This item shall be paid for by the vertical feet at the contract unit price bid for "Manhole Rehabilitation" as specified by type. Payment shall be full compensation for materials, labor, equipment, tools, testing, and any incidentals necessary to complete the work including the bench, invert, and all interior horizontal and vertical surfaces of the manhole. Payment will be made under the following:

Pay Item (910.1): Manhole Rehabilitation per Vertical Feet.

END ITEM 910

This page intentionally left blank.

**San Antonio Water System Standard Specifications for Construction  
Special Provisions to Reconstruction of Sanitary Sewer by Cured-In-Place Pipe (Hot Water or Steamed  
Cured) Item No. 901**

This Special Provisions amend or supplement the Technical Specifications Item No. 901. All provisions which are not so amended or supplemented remain in full force and effect.

1. Only hot water curing of Cured-in-Place Pipe is only allowed on this Project.

**2. 901.8 Remove Section 1 and replace with the following:**

Installed Pipe: The inserted pipe shall be paid for at the contracted price per linear foot of pipe installed using the Cure-In-Place Pipe method complete in place for the pipe size and type specified based on the linear footage as measured in the post installation video inspection tapes and shall include all pipe installation materials, submittals, sealing materials at manholes and annulus (if required), launching pits, receiving pits, post testing, post inspection, shoring, bedding, backfill, and all necessary, corresponding, and related work specified herein. No payment shall be made on this pay item, until the post inspection video has been submitted and approved.

**3. 901.8 Add Section 8 at the end of the section as follow:**

Site Restoration: All site restoration associated with the Cure-In-Place Pipe installation shall be considered incidental to the cost of the Cure-In-Place Pipe, unless specified otherwise. Site restoration associated with service lead reconnections, point repairs, obstruction removal, and or manhole rehabilitation/installation shall be paid for according to those specifications.

**END OF SECTION**