



RALPH ST. 54-INCH REHAB PROJECT, DR#131
Solicitation Number: CO-00024
Job No.: 14-4703

ADDENDUM 1
September 17, 2015

To Respondent of Record:

This addendum, applicable to work referenced above, is an amendment to the proposal and 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 proposal.

MODIFICATIONS

1. The Construction Contract duration has changed from 150 calendar days to **200 calendar days**
2. The bid opening time has changed from 10:00 am to **11:00 am** on September 23, 2015. The date for posting answers to questions has changed to 4:00 pm, September 18, 2015. Replace the **Invitation for Bid** within the specifications with the attached Invitation for Bid page.
3. Replace the **Bid Proposal Signature Page** within the specifications with the attached bid proposal signature page.
4. Replace the **Special Conditions** within the specifications with the attached Special Conditions. Change to Special Conditions: Page SC-1 – Change Contract days to 200 calendar days and page SC-6 – Removed SC 3.0.
5. Replace the **Special Provisions to the Technical Specifications** within the specifications with the attached Special Provisions to the Technical Specifications. Change to Special Provisions to the Technical Specifications: Added a Special Provision to Bid Item 855 – Reconstruct Existing Structures.

RESPONSES TO QUESTIONS

1. **No equipment, piping or any other necessary appurtenances for bypass pumping will be allowed to be set up, either temporarily or for duration of the project, in the 100-yr flood plain?**

Correct.

2. **The best bypass route is to follow the San Pedro River keeping the piping secured and braced using jersey barriers along the upper bank. Will this be an accepted bypass route?**

This route will have piping within the 100-year flood plain, which is not allowed per Special Conditions.

3. **If the piping cannot be laid and secured on the highest point of the bank never crossing the San Pedro River can you provide an acceptable bypass piping route?**

It is the responsibility of the Contractor to submit a Bypass Pumping Plan that adheres to SAWS Specification 864 – Bypass Pumping, the Special Conditions and the Special Provisions to the Technical Specifications.

4. **Will standard trash pumps be accepted with a pump watch technician cleaning the pumps on an hourly basis?**

If the contractor elects to not use a grinder pump, they must have an additional back up pump equal in size to their largest pump (in addition to already required back up pump). Please see SAWS Specification 864 – Bypass Pumping and the Special Provisions to the Technical Specifications.

5. **Can you provide the line capacity for each sewer line to be rehabbed?**

No. This is part of the Bypass Pumping Plan submittal.

6. Can the Flow Data on the 54" pipe system be provided ?

Flow data will be provided to the lowest responsible bidder.

7. With the 100% pipe capacity bypass fully set-up, tested and ready for operation, will SAWS allow the contractor to temporarily divert flow and utilize one of the parallel lines while the other pipe is being rehabilitated with the condition that the bypass system can be turned on or off at any time, as needed ?

SAWS will not allow any flows to be diverted into one of the parallel lines.

8. Please provide the depths for the MH Structures.

Structure ID Number	Vertical Feet
23669	6.9
23280	8.86
25437	9.05
23282	10.41
23281	10.24
23423	18.45
38203	19.66
38204	19
38205	6.1
23261	18.14
23095	18.18
38151	13.7
23176	14.75
23092	10.89
23506	8.16
14812	7.89
14813	4.68
14766	7.75
14765	7.5
36753	8.59
36755	9.37

9. Can the CIPP Minimum Thickness Table be eliminated ?

At this time this minimal thickness will remain in place, Contractor's design submittal will be evaluated using the latest resins and ASTM standards.

10. Can the flow be diverted by pumping in to the parallel lines that are called out for rehab ?

Please see #7

11. Is removing lids, rings , covers, junction box tops incidental for liner insertion or bypass pumping hoses and piping, along with any street restoration ?

Yes. Please see SAWS Standard Specifications 864 and Special Specification 901.

12. Will SAWS add an additional 60 days to the contract calendar days?

Contract calendar days have been revised to be 200 calendar days in lieu of 150 calendar days.

13. Does SAWS have a bypass route plan already ?

No. This is the responsibility of the Contractor.

14. What is the intent for adjusting and reconstructing structures ?

To bring any inadequate structure to current standards.

15. On the item for reconstructing structures, will the rehab be incidental ?

There is a separate pay item for structure rehabilitation. A Special Provision to the Technical Specifications has been added to address this.

16. Can bypass piping be routed through San Pedro Creek higher than the 100 year flood plain ?

No bypass pumping piping shall be allowed in the creek area.

17. Does SAWS have a bypass piping route in place? ?

No. This is the responsibility of the Contractor.

18. Please clarify what constitute exactly what is a grinder/chopper pump, and if that will be required on this project?

Please see Special Provisions to the Technical Specifications and SAWS Specification 864.

19. If a grinder/chopper pump is not available that meets specs, would an additional redundant pump be acceptable to meet the spec ?

If the contractor elects to not use a grinder pump, they must have an additional back up pump equal in size to their largest pump (in addition to already required back up pump). Please see SAWS Specification 864 – Bypass Pumping and the Special Provisions to the Technical Specifications.

20. Will any Unusual Inclement Weather during this project be credited back to the contract days ?

Please refer to Section 8.5 Weather Delay Cause.

21. Will SAWS supply block maps further than what is on the plans for bypass planning ?

SAWS block maps are available at the SAWS, Tower II, floor 2 – Service Desk.

22. Will a full pipe design be needed for the bypass plan on both 54” lines?

Yes.

23. Will any restoration outside of plans required by CoSA be incidental ?

Any restoration required by CoSA other than shown on plans shall be submitted as an RFI. All restoration required for Bypass pumping will be incidental to Bypass Pumping.

24. Will hydrostatic testing be allowed on box structures in place of vacuum testing ?

Please see Special Specification No. 910 – Manhole Rehabilitation

25. In the event that a structure does not have a place for plugging the line off during the testing (vacuum) will visual inspection be acceptable ?

If special conditions like these arise, they will need to be submitted to SAWS in an RFI.

26. During execution of the project if bypass had to be pulled off due to weather will SAWS pay for re cleaning the lines?

No.

27. Can the as-builts be made available for the box structures that are to be rehabilitated ?

Any available SAWS As-Builts will be made available to the lowest responsible bidder.

28. Since both lines combine at box structure 23506 and then flow into one 54" line, can the design flow for the bypass be calculated based on that 54" line at full capacity ?

Contractor shall submit design flow for both 54" lines.

29. Do crossovers between the two interceptors occur anywhere else besides the junction structures ?

It appears that crossovers occur only at junction boxes.

30. Note in special conditions:

NO PAYMENTS will be made associated with repair, replacement, damage, support or other costs associated with the Contractor encountering utilities during this project.

Request that this statement be deleted from the specifications or amended to say:

If existing utilities are shown on the plans or have otherwise been made known to the Contractor by SAWS or designated by a SAWS approved Utility Location Service at the initiation of the Contractor before beginning work, then NO PAYMENTS will be made associated with repair, replacement, damage, support or other costs associated with the Contractor encountering these located utilities during this project.

Original note will remain in place.

31. Request that the time allowance for the project be extended from 150 calendar days to 200 calendar days.

Contract calendar days have been revised to be 200 calendar days in lieu of 150 calendar days.



9-18-2015

Maria S. Gomez, P.E.
GGI Engineers

ACKNOWLEDGEMENT BY RESPONDENT

Each Respondent shall acknowledge receipt of this Addendum No. 1 by noting such and signing the Price Proposal.

This undersigned acknowledges receipt of this Addendum No. 1 and the proposal submitted herewith is in accordance with the information and stipulations set forth.

Date

Signature of Respondent

END OF ADDENDUM

ADDENDUM No.1

INVITATION TO BIDDERS

Solicitation No. CO-00024

Sealed bids are requested by the San Antonio Water System for the construction of approximately 5,000 LF of 30 inch through 54" diameter sewer main for the 2015 Ralph St. 54-Inch Rehab Project, SAWS Job No. 15-4703.

To view additional project information, as well as obtain the plans and specifications for this project, visit our website located at www.saws.org and click on the Business Center. Then select Bidder, Consultant, and Vendor Registration, which is located on the left-hand side of the screen. Select the Register Now button and proceed with registration.

For difficulties downloading plans and specifications, contact the Contracting Department at 210-233-3894.

For questions regarding this solicitation, technical questions or additional information, please contact Gina Cappa, Contract Admin Specialist, in writing via email to: Gina.Cappa@saws.org or by fax to (210) 233-4493 until **4:00 p.m. (CT) on September 15, 2015**. Answers to the questions will be posted to the web site by **4:00 PM (CT) on September 18, 2015** as a separate document or included as part of an addendum.

A **mandatory** pre-bid meeting will be held at **1:00 p.m. on September 14, 2015** at the San Antonio Water System's Customer Service Building, 3rd floor, Conference Room 326, 2800 U.S. Hwy 281 North, San Antonio, Texas. Please be advised that under no circumstances shall any late or non-attendee(s) to the Mandatory Pre-Bid Meeting be allowed to submit a bid for the project.

Sealed bids will be received by the Contract Administration Division, 2800 U.S. Hwy 281 North, Customer Center Building, Suite 171, San Antonio, Texas 78212, **until 11:00 a.m., September 23, 2015**. Bids will then be publicly opened and read aloud in Contract Administration, Suite 169, Customer Center Building, 2800 U.S. Hwy 281 North, San Antonio, Texas. Each bid must be accompanied by a cashier's check, certified check, or bid bond in an amount not less than five percent of the total bid price.

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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 PRICE

\$ _____

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 **200** calendar days after the start date, 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.

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SPECIAL CONDITIONS

SC-1.0 SCOPE OF WORK

I. General

The San Antonio Water System (hereinafter referred to as “SAWS” or “the System”) is soliciting Bids for the purpose of retaining an organization to provide construction services for the replacement, installation and/or adjustment of sanitary sewer mains and appurtenances using cured in place pipe (CIPP) methods.

Rehabilitation of approximately 350 LF of 30-inch sanitary sewer main, 1171 LF of 51-inch sanitary sewer main, 641 LF of 52-inch sanitary sewer main and 2807 lf of 54-inch sanitary sewer main using the cured-in-place-pipe method. Improvements also include sanitary sewer main pre-televising, cleaning and post televising. Sewer bypass pumping with noise control for 30-inch to 54-inch sanitary sewer main, sanitary sewer structure rehabilitation, point repairs and service reconnections and complete restoration of area above improvements and bypass pumping area are also part of the improvements.

Contractor shall anticipate a period of careful planning in close coordination with SAWS prior to beginning any work to fully develop procedures and standards for the work that will be performed. Employee safety, workmanship standards, and maintaining the integrity of SAWS operations with minimal disruption will be the key areas to be addressed prior to beginning work.

II. Terms and Conditions

Term of Contract: The Ralph St. DR#131 54-inch Rehab Project Contract term will be for **200** calendar days from the notice to proceed.

Bid Proposal: The Contractor shall include in his Bid Proposal all labor, equipment, material, tools, supplies and incidentals necessary to complete all work required by this Contract in accordance with the following current specifications: San Antonio Water System (SAWS) Specifications for Water and Sanitary Sewer Construction; Texas Department of Transportation (TxDOT) Standard Specifications for Construction of Highways, Streets and Bridges; the City of San Antonio (CoSA) Standard Specification for Public Works Construction; any Railroad Permit requirements; and any specifications and special conditions specified herein.

Meetings

1. Mandatory project coordination meeting may be held with project inspector and affected entities such as CoSA Right of Way Dept., utility companies, etc.
2. Contractor shall provide owner with an emergency 24 hour telephone number for evenings, weekends, and holidays by the first working day of the project. (This telephone number must be a commercial answering service. The answering

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service must be able to contact the Contractor and the Contractor must respond back to the owner within two hours of the initial contact.)

III. Record of Performance Submittals: (INSTRUCTION TO BIDDERS)

To assist the San Antonio Water System in performing the bid evaluation and Subsequent recommendation of award, the Apparent Low Bidder (Prime Contractor) shall submit the following, in addition to requirements as stated in the Instructions to Bidders, page IB-7 #24. Failure to provide the required information may result in a non-responsive bid: The Bidder shall meet the following minimum qualifications for performing sewer rehabilitation work:

1. The record of performance submittal as specified in the Instruction to Bidders, 24.(c), shall be provided for Bidder's staff/personnel, not the company.
2. The Bidder shall have successfully completed all of the following:

Provide a minimum of three (3) successfully completed cured-in-place pipe (CIPP) sanitary sewer projects within the last five (5) years. A successful cured-in-place pipe (CIPP) rehabilitation of a minimum of 5,000 linear feet of sanitary sewer main utilizing the cured-in-place pipe (CIPP) rehabilitation method with a minimum size of 30-inches of diameter of pipe and up to and including 54-inches of diameter of pipe as is required to accomplish the work on this project.
3. The Bidder is also to submit any sub-contractors experience if they will be part of the crews doing the work for the Prime Contractor.
4. Contractors shall submit enough documentation demonstrating successful by-pass pumping for large diameter sanitary sewer mains from 30-inches and up to and including 54-inches. If a bypass subcontractor will be used, their experience must also be included.

To verify Bidder's experience information, provide a list of individuals familiar with the above referenced projects who can verify, as the owner or engineer, the above information is true and correct. Provide verified telephone numbers, email addresses, project names, project size and scope, rehab type, project cost, project start and stop dates, pipe materials and sizes installed, and the equipment and methods utilized on the project. If completion of those projects included the assistance of sub-contractors, prime must submit the names of the sub-contractors used on those projects and specify if those same subs will be used on this contract.

Criteria to be evaluated by SAWS in reviewing Contractor's submitted successfully completed projects, will include but not be limited to, Contractor not defaulting on the contract, contract (or individual work orders as the case may

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be) being completed on time and contract (or individual work orders, as the case may be) incurring zero (0) Owner claims.

The Bidder shall be required to have at least one crew and one superintendent that is qualified in the method of rehabilitation being performed on job site during rehabilitation activities.

SC-1.01 Project Phasing Plan: The Contractor is required to submit a Project Phasing Plan for the owner's approval. No separate pay item (NSPI)

SC-1.02 Traffic Requirements: Unless specified in writing or modified as may be appropriate by the City of San Antonio and the Construction Inspector, the Contractor shall execute work in accordance with traffic requirements contained in these contract documents. This includes requirements in the City's Street Cut Permit, the Traffic Notes on the plans, any TXDOT or other permits as applicable, Item 530 - Barricades, Signs and Traffic Handling and other requirements as may be required based on field conditions as requested by the Inspector. If off duty police officers are required, payment for off duty police officers shall be considered subsidiary to Item 530 Barricades, Signs, and Traffic Handling (no separate pay item).

Traffic Control Plan. Payment for line Item 805 Traffic Control Plan will be made by the contract unit bid price of "LS". If a traffic control plan is required, Contractor may be compensated for up to one (1) traffic control plan for this project.

SC-1.03 Contractor Identification: All traffic barricades which are required in accordance with the established regulations shall be identified on both sides in prominent stenciled letters with the Contractor's name, local address and telephone number.

SC-1.04 Storm Water Pollution Prevention Plan: The Contractor is responsible for carrying out the Storm Water Pollution Prevention Plan in accordance with local requirements, including any revisions made to the plan during construction.

The Contractor will be required on this project to utilize erosion control measures deemed necessary to control wind and water soil erosion accordance with specifications included in this project. Because of the uncertain nature of the open cut work and where excavation and stockpiling will be required, the Contractor will be required to maintain and determine the location and amount of erosion control measures needed and adjust the plan continually to meet project needs. Bid item 553 for a SWPPP is included in this project and any permits, material, etc required for this SWPPP shall be paid under this bid item. Contractor shall comply with the TCEQ's TXR150000 criteria and regulations for Storm Water Pollution Prevention Control.

SC-1.05 Project Signs: Contractor to provide Project Signs as per SAWS Specification No. 869.

SC-1.06 Trees: Contractor shall adhere to the requirements of the latest City of San Antonio

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Tree Ordinance to include but not limited to any tree and or landscape protection, trimming and removal and replacement. Adherence to the City of San Antonio Tree Ordinance will not be measured and paid for separately, but shall be considered subsidiary to Bid Item 101 – Preparing ROW.

SC-1.07 Bypass pumping: No equipment, piping or any other necessary appurtenances for bypass pumping will be allowed to be set up, either temporarily or for duration of the project, in the 100-yr flood plain. All bypass pumping efforts required for setup and operation shall be included in the lump sum price, under bid item 864 – Bypass Pumping.

SC-2.0 GENERAL NOTES. The following general notes shall be adhered to.

1. All materials and construction procedures within the scope of this contract shall be approved by the San Antonio Water System (SAWS) and comply with the following as applicable.
 - A. Current Texas Commission on Environmental Quality (TCEQ) Rules and Regulations for Design Criteria for Domestic Wastewater Systems (30 TAC §217).
 - B. Current TXDOT “Standard Specifications for Construction of Highways, Streets and Drainage.”
 - C. Current “San Antonio Water System Standard Specifications for Water and Sanitary Sewer Construction.”
 - D. Current City of San Antonio “Standard Specifications for Public Works Construction.”
 - E. Current Bexar County Specifications.
 - F. Current City of San Antonio “Right-of-Way Ordinance and Criteria Manual”.
 - G. Current OSHA standards for safety and procedures as applicable.
 - H. Any governing jurisdiction’s laws and regulations.
2. The Contractor/Superintendent is to notify and make arrangements with the SAWS, COSA, TxDOT or other jurisdiction’s representative and involve the home resident and/or property owners 48 hours prior to excavation or start of project.
3. The existence and location of underground utilities indicated on the plans are taken from the best records available and are not guaranteed to be accurate. The Contractor/Superintendent is responsible for maintaining, supporting, and protecting the integrity of underground utilities and power poles during construction, and is required to call the following numbers 48 hours before beginning any excavation.

San Antonio Water System	233-2010
COSA Drainage	207-8048
COSA Traffic Signal Operations	207-7720
Texas State Wide one Call Locator	1-800-545-6005

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Where High Voltage Overhead Power Lines are in close proximity to the work, the Contractor shall be in accordance with the requirements of Chapter 752 of the Texas Health & Safety Code.

4. If damaged, the Contractor shall be responsible for restoring existing features at the project site, including but not limited to existing utilities, concrete rip-rip, concrete drainage structures, curbs, streets, driveways, sidewalks, signs, pavements, sprinkler systems, fences, vegetation, landscaping, etc. to its original or better condition. (No Separate Pay Item)
5. Trench excavation protection shall be accomplished as required by the provisions of Part 1926, Subpart P-Excavation, Trenching, and Shoring of The Occupational Safety and Health's Standards and Interpretations. The Contractor shall also comply with the provisions included in Item 550, Trench Excavation Safety Protection, of the current San Antonio Water System Specifications for Water and Sanitary Sewer Construction.

NO PAYMENTS will be made associated with repair, replacement, damage, support or other costs associated with the Contractor encountering utilities during this project.

6. **Protection of Lives and Health**. The Contractor shall comply with the U.S. Department of Labor Safety and Health Regulations for construction promulgated under the Occupational Safety and Health Act of 1970 (Public Law 91-596 and all subsequent amendments) and under section 107 of the Contract Work Hours and Safety Standards Act (Public Law 91-54 and all subsequent amendments).

The Contractor shall have a competent person or persons, as required under the Occupational Safety and Health Act, on the site to inspect the work and to supervise the conformance of the Contractor's operations with the regulations of the Act.

This project is subject to all the Safety and Health Regulations (CFR 29, Part 1926 and all subsequent amendments) as promulgated by the U.S. Department of Labor on June 24, 1974 and CFR 29, Part 1910 and all subsequent amendments, General Industry Safety and Health Regulations Identified as Applicable to the Construction. Contractors are urged to become familiar with the requirements of these regulations.

7. Contractor shall document and provide to Owner, upon request, any verbal or written agreements with property owners.
8. Contractor shall protect all underground irrigation systems encountered within the construction area. All damage shall be repaired by irrigator licensed in the State of Texas. NSPI.

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9. Construction surveying is the sole responsibility of the Contractor including but not limited to limits of permanent and temporary construction easements, cut sheets, pipe alignment, appurtenance location and road crossing. Contractor shall verify all control monumentation prior to beginning construction.

10. Contractor is responsible for maintaining all sewage flow during all phases of construction.

11. The Contractor is responsible for ensuring that no sanitary sewer overflows (SSO) occur as a result of their work. All Contractor personnel responsible for SSO Prevention and Control shall be trained on proper response. Should an SSO occur, the Contractor shall:
 - A. Identify the source of the SSO and notify SAWS Emergency Operations Center immediately at 210-233-2015.
 - B. Provide the address or location of the spill and an estimated volume or flow.
 - C. Attempt to eliminate the source of the SSO.
 - D. Contain sewage from the SSO to the extent possible to prevent contamination of waterways.
 - E. Clean up the spill site (return contained sewage to the collection system if possible) and dispose of contaminated soil/materials.
 - F. Clean the affected sewer mains and remove any debris.
 - G. Meet all post-SSO requirements per the EPA Consent Decree, including line cleaning and televising the affected sewer mains (at SAWS direction), within 24 hours.

No separate measurement or payment shall be made for this work. All work shall be done according to guidelines set by the TCEQ, SAWS, and the EPA. Should the Contractor fail to address an SSO immediately and to SAWS satisfactions, they will be responsible for all additional costs incurred by SAWS, including any fines from the EPA.

END OF SPECIAL CONDITIONS

Special Provisions to Technical Specifications

A. Revision to Standard Specification Item No. 864 (Bypass Pumping)

864.3 Under Design: The statement to be replaced currently reads as follows:

Bypass pumping flow data shall be developed during the design phase of the project and may be incorporated into the contract documents. The flow data will provide the Contractor with the best-known sewer system flow information from which the Contractor can develop the required Bypass Pumping Plan (BPP). Depending upon the complexity of the subject project, all available bypass pumping data will be described in the contract documents, showing the possible connection or impact location(s). It shall include:

- 1. Wastewater flow information;*
- 2. Upstream and downstream manhole locations and depths, invert elevations, manhole and pipe diameters and materials, any affected laterals, etc.;*
- 3. A description of possible bypass pumping options and constraints.*

The Contractor shall confirm that the bypass pumping flow data shown in the contract documents remains applicable by including updated flow information in the BPP. This will be accomplished by the Contractor providing flow data back to SAWS and the Engineer for analysis, using a technique first deemed acceptable to SAWS and the Engineer. This submitted flow data shall be obtained prior to the actual bypass work that accommodates the identified scope of work reflected in the contract documents. Contractor shall not proceed with any work until SAWS and the Engineer have had an opportunity to review and comment on the Contractor's measured flow data. In the absence of any flow data furnished in the contract documents, the Contractor's submitted flow data will be the only means to incorporate the to-be submitted BPP for review and acknowledgment.

The above statement is to be replaced with the following:

The bypass pumping system shall be designed to have pumping capacity of at least the full pipe gravity flow capacity of the lines to be bypassed during construction, not including the backup pump(s). Flows pumped from a sewer main to be rehabilitated or replaced shall be discharged downstream into the same main. Flows will not be allowed to be discharged into an adjacent or separate sewer main.

864.5 Equipment and Materials: The statement to be replaced currently reads as follows:

Special Provisions to Technical Specifications

Pumps must be fully automatic self-priming units that do not require the use of foot-valves or vacuum pumps to prime the system. No electric pumps will be allowed; all pumps must be diesel powered. The primary pump must be a grinder or chopper pump, in order to reduce the potential for debris to complicate the safe operation of the pumps. Contractor shall have one backup pump, equal in capacity to the largest pump in the system, connected the bypass pumping system, and ready for operation in case any of the primary pumps fail. The backup pump shall not be used in Contractor's calculations for determining the pumping capacity requirements for the stated flow conditions above. Sound-attenuated pump enclosures shall be required on all projects where the bypass pumps are located within 50 feet of any residence, business, park, or other presence of people.

The above statement is to be replaced with the following:

Pumps must be fully automatic self-priming units that do not require the use of foot-valves or vacuum pumps to prime the system. No electric pumps will be allowed; all pumps must be diesel powered. The primary pump must be a grinder or chopper pump, in order to reduce the potential for debris to complicate the safe operation of the pumps. Contractor shall have one backup pump, equal in capacity to the largest pump in the system, connected the bypass pumping system, and ready for operation in case any of the primary pumps fail. The backup pump shall not be used in Contractor's calculations for determining the pumping capacity requirements for the stated flow conditions above.

In lieu of utilizing grinder or chopper pumps, it is acceptable for the contractor to install an additional backup pump (in addition to the already required backup pump) equal in capacity to the largest pump in the system. This additional backup pump shall be connected to the bypass pumping system, ready for operation in case any of the primary pumps fail, or the backup pump fails. The additional backup pump shall not be used in Contractor's calculations for determining the pumping capacity requirements for the stated flow conditions above.

Sound-attenuated pump enclosures shall be required on all projects where the bypass pumps are located within 50 feet of any residence, business, park, or other presence of people. All pumping equipment shall comply with the City of San Antonio Noise Ordinance that requires that the sound level at or across a real property boundary does not exceed 63 dB in residential zoned property, 70 dB in business zoned property, or 72 dB in industrial zoned property.

All other language in this specification 864 remains in full force.

Special Provisions to Technical Specifications

- B. 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:

One hour before installation of the CIPP liner in the sanitary sewer main, the main shall be televised to locate laterals and observe existing conditions. This televising shall be conducted immediately upon cleaning or clearing existing main. All cleaning should conform to SAWS Item 868 – Sanitary Sewer Cleaning. The Contractor shall furnish all labor, equipment, appliances, and materials necessary for cleaning the sewer system including the removal of all debris,

Special Provisions to Technical Specifications

solids, sand, grease, grit, etc. from the sewer and manholes to facilitate television inspection. Sanitary Sewer Cleaning shall include Obstruction Removal as per SAWS Item 1103. Obstruction Removals to include removal by remote device or person entry. 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 rehabilitation 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 #;*
2. *Date of television inspection;*
3. *Manhole UNITIDs (as labeled on plans) and size of sanitary sewer;*

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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 the SAWS Specification 866 remains in full force.

- C. Revision to Standard Specification Item No. 855 (Reconstruct Existing Structures)

855.4 Construction: The statement to be replaced currently reads as follows:

For reconstructed existing manholes, apply a combination of both products with the cementitious coating first, followed by the epoxy coating. Kerneos SewperCoat 2000 HR regular, applied at the required one inch thick application, is the only product approved which does not require a subsequent epoxy coating. Other approved materials are as follows:

1. Cementitious coating: With required one inch thick application.

a. Permacast CR-5000;

b. Strong - Seal MS-2C;

c. Standard Cement Material Inc. Reliner;

d. Quadex Aluminaliner;

e. ConShield Biotech Armor.

2. Epoxy coating: With specified thickness application.

a. Raven 405 Series High Build Epoxy Liner: Required thickness – 125 mils;

b. Spray Wall polyurethane System: Required thickness – 125 mils;

c. Caboline Plasite 4500: Required thickness – 125 mils.

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The previous statement is to be replaced with the following:

If an existing structure is being reconstructed, rehabilitation shall be paid separately under SAWS Item 910.2 – Manhole Rehabilitation Specification.

- END -