



**Eastern Sewershed Package IV Project  
Solicitation Number: CO-00149  
Job No.: 17-4527**

**ADDENDUM 3  
April 26, 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>
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- 1. To the extent that the sites are remote and therefore inaccessible to hydrants or other constant water sources. Allowing for Air Install Steam Cure of the CIPP will substantially reduce the water usage for the project, reduce CIPP installation time and prevent having to truck in substantial quantities of water. Will SAWS permit the use of Air Install and Steam Cure for this project?**

*No.*
- 2. Please state the criteria for which work will be allowed in the designated Park areas after 4PM. Will tasks, such as CIPP installs and bypass pumping, which require 24-hour uninterrupted operation be allowed?**

*The "work" noted on Special Conditions, SC-4.0, G refers to bypass pumping setup and breakdown, and CIPP install setup and breakdown, which shall be performed during the allowed working hours noted in the Construction Documents. The implementation of the CIPP install and bypass pumping is understood to be a continuous operation that will require 24-hour monitoring.*
- 3. If work is being performed "within 256 feet from the centerline of the track" then a Railroad Flagman must be present, is that distance accurately stated?**

*A flagman must be present when work is being conducted within 25 feet of centerline of track. As part of this addendum, please see attached revised Special Conditions, page SC-4.*
- 4. What time allowance should the Contractor consider as a minimum and maximum time frame within the contract for receiving a UPRR permit that has been properly submitted?**

*UPRR Permit has been secured. Contractor shall provide a written scheduling request to SAWS a minimum of ninety (90) business days in advance of proposed installation. Please refer to Special Conditions SC-4.0 B.*
- 5. Will man entry of the 42" pipe allowed in lieu of remote obstruction removal? Devices for remote obstruction removal within a 42 inch pipe are not readily available nor practical to deploy or monitor. Man entry is an established practice for obstruction removal on 42 inch pipe and can be performed safely.**

*SAWS will allow man entry of the 42" pipe if that is Contractor preferred means and methods.*
- 6. CIPP Wall Thickness design requires that groundwater depth shall be at ground surface as a minimum or the elevation of the 100-year floodplain water surface "whichever is greater". What are the actual water surface elevations of the 100-year flood plain for this project? If not stated, then can groundwater depth to the surface be assumed for the design thickness?**

*Groundwater elevation requirements have been revised. AS part of this addendum, see attached revisions to Special Provisions to Specification Section 901, page SPTS-3.*

- 7. Will SAWS move the bid opening date away from Monday?**  
*Per Addendum 2, SAWS has revised bid opening date to May 2, 2018 at 10:30AM*
- 8. Can multiple sites be worked simultaneously?**  
*As part of this addendum, please refer to updated Supplemental Conditions page SS-2 and Special Conditions page SC-6*
- 9. Can a pay item be provided for Tree Mitigation / Protection including Tree Pruning?**  
*Tree mitigation, protection, and pruning are subsidiary to the work as noted in the Special Conditions. Also, please note Amended Ordinance 2014-06-19-0472 attached.*
- 10. Will a P.E. stamped Storm Water Pollution Prevention Plan be required?**  
*As part of this addendum, please refer to revised Special Provisions to Technical Specifications, Page SPTS-1.*
- 11. Will a P.E. stamped Bypass Plan be required?**  
*Yes, please refer to SAWS Specifications 864-S1 and 864-S2.*
- 12. Will R.O.W. Staking be required and at the expense of the Contractor?**  
*Contractor is responsible for working within the defined areas indicated in the Right of Entry agreements. If Contractor desires to stake the edges of these areas, Contractor shall do so at his expense.*
- 13. Will a Message Board be required at each site for the purpose of public notification for the 7 days prior to work and 3 days after beginning work even if no other traffic control devices are required?**  
*Contractor shall comply with City of San Antonio ROW permit requirements. In areas outside CoSA ROW, contractor shall provide Project Sign per SAWS Specification 869.*
- 14. Will SAWS remove the Flow Meter in MH# 46500?**  
*For manholes containing flow meters, the contractor shall notify Juan C. Ramirez at 210-233-3558 and SAWS EOC at 210-704-SAWS (210-233-7297) a minimum of 72 hours, not counting weekends or SAWS holidays, before working on the pipe or manhole, in order to have SAWS remove the smart cover. Any damage done to the smart cover will be charged to the contractor through a change order.*
- 15. Please provide personnel security/access details for Fort Sam Houston.**  
*General Notes of the plans on Sheet 3, Additional Notes 13., Contractor shall contact Mr. Jeff Blankenship at 210-671-7212. Our understanding is that Fort Sam Houston will require the names of individuals accessing the Fort Sam, State Driver's License, Date of Birth, Vehicle Information, and dates required for access. Vehicles entering Fort Sam shall have valid insurance and current registration, and all personnel entering the site not have any warrants. Contractor is also advised that work restrictions will apply associated with the Memorial Day and Veteran's Day holiday, and shall be observant of funeral processions that will be occurring at the Cemetery. Please refer to Contract Documents Exhibit A Fort Sam Houston Authority & Rules of Conduct. If Contractor has additional questions, please feel free to contact Mr. Jeff Blankenship at 210-671-7212.*
- 16. Please confirm SAWS will provide assistance to the contractor in the event time expires on the ROE agreements.**  
*In the event an extension is required to complete the work due to issues not related to Contractor, SAWS will provide assistance but does not guarantee that an extension will be granted.*
- 17. Please confirm that steam curing of CIPP liners may be considered in certain circumstances where locations are not in close proximity to schools, residents, etc.**  
*Steam curing will not be considered for this project.*
- 18. Due to the nature and timing of manhole adjustments, will SAWS allow a partial payment with approval from the inspection department?**  
*The contractor will not be allowed partial payment. The contractor will be paid according to SAWS specifications for this item of work.*

19. There is a UPRR permit that SAWS obtained included in the attachments, but per Additional Note 14 on drawing sheet 3, work on Line J & K will require a UPRR permit that has not been secured. Is there a second UPRR permit required, or is this drawing note in error? If there is another UPRR permit required, will SAWS also be obtaining that permit?

*That note refers to Contractor written scheduling request required by UPRR. Please see response to Question 4.*

20. Aside from the CoSA ROW permits that the Contractor will be obtaining, are there any other permits anticipated to be needed on the project that SAWS has not already obtained? If so, what permits will be required, which permits will SAWS be obtaining, and which will the Contractor be responsible for obtaining? For the permits that SAWS will be obtaining, are there any permit fees or other associated permit expenses that the Contractor will be responsible for paying? For the permits the Contractor is responsible for obtaining, are there any permit fees or other associated permit expenses that will be reimbursable by SAWS?

*No other permits besides CoSA ROW are anticipated to be obtained by Contractor. All known permits have been secured with exception to the CoSA ROW permit to be obtained by Contractor.*

21. Aside from the ROE agreements in the Appendix that SAWS has already obtained, are there any other ROE agreements anticipated to be needed on the project? If so, for which properties, and will the Contractor or SAWS be responsible for obtaining them?

*No other ROE agreements are anticipated to be needed for the project.*

22. Will the new or reconstructed manholes be required to be coated? If so, are there any which will not need to be coated? When a new or reconstructed manhole is required to be coated, will this coating be paid for under the manhole rehab bid item no. 22(910.1), or will the coating be incidental to the manhole installation or reconstruction, and not paid separately?

*Per SAWS Specification Item 850, new manholes shall be coated with a SAWS approved sewer coating. Coating shall be incidental to Item 850 (see part 850.7). Per SAWS Specification Item 855, reconstructed manholes shall be coated with a SAWS approved sewer coating. Coating shall be incidental to Item 855 (see part 855.8).*

23. For the manholes to be reconstructed under bid item 9(855), please clarify the limits of the reconstruction. Will the entire manhole need to be removed and replaced, or only portions?

*SAWS Specification 855 states to include the replacement of manhole ring and covers, the cones, manhole section(s) as required. It is anticipated that only portions of the manhole will be replaced.*

24. It is our understanding that none of the tree canopy shown to be removed on the Tree Preservation Plan drawings will need to be replaced after construction. Is this correct? If this is not correct, please clarify any tree replacement requirements.

*Tree canopy areas shown on the plans are areas meant for manhole access. Prior to any tree removals the city arborist will need to be contacted and notified. The intent of the design is to preserve all heritage and significant trees unless the City Arborist determines the tree is dead and can be removed, refer to Existing Heritage Tree Table on sheet 56 of the plans. There are several locations that heritage trees are in close proximity to proposed work, Line P and Line T are examples where coordination efforts between City Arborist and Contractor will be required to confirm heritage trees are not removed. It is required to preserve at least 80% of significant trees and 100% heritage trees without mitigating; however, if this exceeded then mitigation is required and significant trees will have 1:1 and heritage trees at 3:1 ratios, according to City of San Antonio Unified Development Code (UDC) Section 35-523 Tree Preservation Table 523-2 Mitigation.*

25. The tables of estimated quantities on drawing sheets 2 and 17 - 55 show the CIPP as (steam/water-cured), but Special Provision 901.1 on page SPTS-3 says this project shall utilize water inversion and hot water curing. Is a steam cure allowed for the CIPP, as indicated on the drawings, or will a steam cure not be allowed, as indicated in the Special Provisions?

*Steam cured will not be allowed. Updated estimated quantity sheets provided in Addendum 1.*

26. Where should the bidders write the total bid price? Usually there is a place to write the total bid price on page BP-1, but it does not appear to be included in the forms for this bid. Please clarify.

*The bid proposal updated to include row for total bid price. As part of this addendum, see attached revised Bid Proposal Page BP-1.*

- 27. We request that bid items for mobilization (100) and preparation of right-of-way (101) be added to the bid schedule for this contract.**  
*Per Addendum 1, Mobilization (SAWS Specification Item 100) and Preparing Right-of-Way (SAWS Specification Item 101), will not be measured for or paid for directly, but shall be included in the unit price bid for the item of construction in which the work occurs.*
- 28. There is a lot of site preparation, preservation, and restoration work on this contract that has no associated bid items for payment. Since this work is significant on this project, especially given the locations the work will pass through, it is difficult to bid all this work as incidental to other items. We request that bid items be added to the bid schedule covering the site restoration, erosion control, site clearing, temporary haul roads, tree preservation, and fencing work required on the contract.**  
*No additional bid items will be added to the Contract. Items of work noted shall be included in the unit price bid for the item of construction in which the work occurs.*
- 29. A few of the manholes that are shown to be rehabilitated on the drawings are not also shown to be adjusted. Does this mean that the manhole frame, cover and collar will not need to be replaced at these manholes when they are rehabilitated? This question would apply to 3 manholes - MH #50943 on sheet 19 on Line K, MH #60160 on sheet 47 on Line T, and MH #60159 on sheet 49 on Line T.**  
*MH #'s 50943, 601160, and 60159 will only require rehabilitation per SAWS Specification Item 910. No other work is anticipated at this time.*
- 30. Manholes on Line P are shown with the symbol for rehabilitate manhole from the legend, but they are not called out to be rehabilitated or adjusted. Will any of the manholes on Line P be required to be rehabilitated or adjusted? Manholes located within line P are not required to be rehabilitated or reconstructed.**
- 31. MH #961146 on sheet 31 on Line T is not shown with the symbol for rehabilitate manhole, and its noted description does not indicate it is required to be rehabilitated or adjusted, but from the table of estimated quantities on that drawing, it appears it is being included in the quantities for both manhole rehabilitation and adjustment. Will this manhole be required to be rehabilitated and adjusted?**  
*Manhole 961146 is not required to be rehabilitated or reconstructed. As part of this addendum, Plan Sheet 31 has been adjusted.*
- 32. Tree Preservation General Note 18 on drawing sheet 56 says that all trees shall remain unless noted on the plans, but the tree removal areas shown on the Tree Preservation Plans are mostly small localized areas immediately surrounding the manholes. If performing the work or building the temporary access roads necessary to access the work will require more tree removal than shown, how will that be handled?**  
*According to City of San Antonio Development Service Department (DSD), if any changes need to be made to an approved tree preservation plan, a revised plan is required to be submitted, reviewed, and approved. The cost for this is \$100 for post submittal review fee.*
- 33. Note 6 on drawing sheet 14 says that the Contractor is restricted to hours of 5AM-4PM within John James Park, and in section G of the Special Conditions on page SC-6, it says work will not be permitted after 4PM in John James Park. Please confirm that exceptions will be allowed to these working hours. Bypass will need to run continuously and must be manned. Also with at least one of the manhole segments that will be lined with CIPP in the park being over 1,000 LF with no middle manholes, and another one being almost 850 LF, it will be impossible to install CIPP in 24" pipes of this length in only 11 hours, so CIPP installation will also need to be allowed to be continuous once an installation is started. This is even more true for the 42" Line P, which per section G of the Special Conditions, will be allowed to be performed during normal hours indicated in contract, but 42" CIPP lining cannot be completed during normal working hours and again will require a 24-hour operation to install.**  
*Please see response to Question 2.*
- 34. If a contractor that is certified as an SBE by either the Texas Comptroller's Office or the SCTRCA, but that normally does not maintain an office in the San Antonio municipal area, comes to San Antonio and sets up a temporary job office for this project and transacts business from that job office during the course of the project, can that**

**contractor be considered to be a local business for the purposes of participation in SAWS SMWB program? Will a temporary job office be accepted as a local office?**

*Yes. A temporary office in Bexar County or one of the eleven surrounding counties will suffice for participation in the SAWS SMWB Program. The rental agreement should be in place at the time that the bid is due, because the SMWB analysis is normally conducted no later than 3 days after a bid closes.*

- 35. The modifications to section 5.13.5 in the Supplemental Conditions define the requirements for the baseline schedule that must be submitted with the bid. In that section, it says the baseline schedule must be broken up per "Work Site" with the requirement that work on a new "Work Site" can't begin until work on a "Work Site" that has started must be completed as described within the Special Conditions. However, we could not find reference to Work Sites being defined within the Special Conditions, or elsewhere in the specifications. Is this requirement to break the schedule up into Work Sites applicable to this project?**

*Please see response to Question 8.*

- 36. In Article VIII on page SS-3, where liquidated damages are defined, there is no specification for what damages would apply after 42 days. On other contracts, days over 42 days have been specified to also be at the Tier 6 rate. Would the Tier 6 rate apply to any days over 42 days for this contract?**

*Liquidated damages over 42 days will be assessed at the Tier 6 rate. As part of this addendum, please see updated Supplemental Conditions Page SS-3 attached.*

- 37. We have the following questions regarding the CIPP design parameters contained in section 901.4.3.e.**

- a. The soil modulus for design is shown to be a blanket 500 psi, regardless of location. This is an extremely low value for almost all design situations and will unnecessarily increase the CIPP design thickness, which increases difficulty of installation and overall project cost. Typical values for soil modulus are often 700 psi in shallow unconsolidated easements, 1,000 psi at shallow to moderate depths under streets or in deeper more consolidated easements, and with values as high as 1,500 psi or higher in deeper &/or well consolidated soils. We request that an increased soil modulus be provided specifically for this project that is applicable for the areas where this project is located.**

*Soil modulus requirements have been revised. As part of this addendum, please see attached revision to Special Provisions to Specification Item 901, pages SPTS-3.*

- b. The groundwater level for design is specified to be at the surface. However, it is also specified so that it will be required to be at the 100-year floodplain water surface level, if that level is higher than the ground surface. This assumes that a floodwater situation would be a permanent loading situation, which it never is. Since floodwater is a temporary situation, standard practice for handling it in CIPP design, when it is a factor, is to design with the long-term retention of flexural modulus at 75% instead of 50% to reflect the temporary nature of this extra loading. We request that the specification which requires the 100-year floodplain water surface level be used as the groundwater level in the CIPP design either be eliminated, or at the very least, be rewritten so that 100-year floodwater loading, when applicable, will be treated as a temporary condition that is accounted for with 75% long-term retention of the initial flexural modulus.**

*Groundwater elevation requirements have been revised. As part of this addendum, please see attached revision to Special Provisions to Specifications Item 901, page SPTS-3.*

- c. If we will need to use the 100-year floodplain in the CIPP designs, please provide the 100-year floodplain water surface level elevations required to be used as the groundwater level in the CIPP design for any area where the 100-year floodplain will be applicable. Although, the 100-year floodplain is marked on the drawings, its elevation is not shown. Unless the 100-year floodplain elevations are provided in a manner that can be tied to the individual sewer segments, it will be difficult, if not impossible, to use the 100-year floodplain levels in the design for the CIPP.**

*Please see response to Question 37.b.*

- d. We would like to note that if these issues are not addressed and altered, that depending on the specific conditions of the site, any one of them &/or their combination could unnecessarily increase the CIPP thickness to a level that it could make it difficult to impossible to install, which could impact the CIPP contractor's ability to bid and build the project.**

*Please see response to Questions 37.a. and 37.b.*

## CHANGES TO THE SPECIFICATIONS

1. Bid Proposal (BP-1, BP-2, and BP-3) – Remove bid proposal in its entirety and replace with the attached. This revised version should be used by bidders when submitting a bid for this project. The following items were updated:  
Total Bid Amount added to Page BP-1.
2. Replace Special Provisions to Technical Specifications (SPTS-1 through SPTS-4) with the attached Special Provisions to Technical Specifications (SPTS-1 through SPTS-6). The following items were updated:  
Adjustments to Item 540 indicating that a Storm Water Pollution Prevention Plan prepared by a Registered Engineer will be required at no separate pay.  
Adjustments to Item 910 to include changes in requirements to soil modulus used for design of liner thickness, and groundwater elevation requirements, as well as additional requirements.
3. Insert Amended Ordinance 2014-06-19-0472
4. Replace Supplemental Conditions (SS-2 & SS-3) with the attached Supplemental Conditions (SS-2 & SS-3). The following items were updated:  
Article V – Contractor responsibilities was revised to indicate “Project Location” instead of “Work Site”  
Article VIII – Contractor Completion Time was revised to clarify liquidated damage amounts after 42 days.
5. Replace Special Conditions (SC-4 & SC-6) with the attached Special Conditions (SC-4 & SC-6). The following items were updated:  
B. Union Pacific Railroad – UPRR flagman should be present for work within 25 feet of centerline of track.  
I. Project Location – This section was added to clarify requirements for work on multiple Project Locations.

## CHANGES TO THE PLANS

1. Plan Sheet 2 – Replace sheet dated 01/05/2018 with attached sheet 04/25/2018. Updates to plan sheet consist of revised quantities to manhole adjustments and manhole rehabilitation.
2. Plan sheet 31 – Replace sheet dated 01/05/2018 with attached sheet 04/25/2018. Updates to plan sheet consist of SAWS item 851.1 and 910.1 have been removed and quantities have been revised.

## END OF ADDENDUM

This Addendum, including these six (6) pages, is twenty-two (22) pages with attachments in its entirety.

Attachments:

Bid Proposal Page BP-1, BP-2, and BP-3

Special Provisions to Technical Specifications Pages SPTS-1 through SPTS-6

Amended Ordinance 2014-06-19-0472

Supplemental Conditions Pages SS-2, SS-3

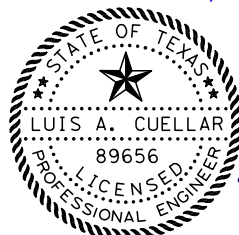
Special Conditions Page SC-4, SC-6

Plan Sheet 2

Plan sheet 31



Luis A. Cuellar, P.E.  
RPS Infrastructure, Inc.





Solicitation No. CO-00149  
SAWS Job No 17-4527  
Proposal Eastern Sewershed Package IV

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)**

3

<b>TOTAL BID AMOUNT (The sum of Page BP-2 and BP-3)</b>	\$ _____
_____	<b>DOLLARS AND</b>
_____	<b>CENTS</b>

\_\_\_\_\_  
 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.

**BID**

The bidder offers to construct the Project in accordance with the Contract Documents for the contract price, and to complete the Project within **360** 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.



Solicitation No. CO-00149  
 SAWS Job No 17-4527  
 Proposal Eastern Sewershed Package IV

Item No.	Spec No	Specification No. & Description	Unit	Qty	Unit Price	Total Price	
1	COSA-413.1	Flowable Fill (Low Strength)	CY	50	\$	\$	
2	COSA-520	Hydromulch	SY	2200			
3	530.1	Barricade, Signs, and Traffic Handling	LS	1	\$	\$	
4	COSA - 540	Storm Water Pollution Prevention Plan	LS	1	\$	\$	
5	550	Trench Excavation Safety Protection	LF	130	\$	\$	
3	6	851.1	Manhole Adjustment	EA	23	\$	\$
	7	852.1	Sanitary Sewer Manhole (0-6' Depth)	EA	1	\$	\$
	8	852.2	Sanitary Sewer Manhole (Extra depth Manhole)	VF	6	\$	\$
	9	855	Reconstruction of Existing Manhole	EA	3	\$	\$
	10	858	Concrete Encasement, Cradles, Saddles, and Collars	CY	17	\$	\$
	11	864-S2	Bypass Pumping Large Diameter (Project Location J)	LS	1	\$	\$
	12	864-S2	Bypass Pumping Large Diameter (Project Location K)	LS	1	\$	\$
	13	864-S2	Bypass Pumping Large Diameter (Project Location P)	LS	1	\$	\$
	14	864-S2	Bypass Pumping Large Diameter (Project Location T)	LS	1	\$	\$
	15	864-S2	Bypass Pumping Large Diameter (Project Location Z)	LS	1	\$	\$
	16	866	Sewer Main Television Inspection(18" Through 27")	LF	11428	\$	\$
1	17	866	Sewer Main Television Inspection(30" and larger)	LF	3134	\$	\$
	18	901	24-Inch CIPP Sewer Main Rehabilitation (Water Cured) All Depths	LF	11029	\$	\$
	19	901	27-Inch CIPP Sewer Main Rehabilitation (Water Cured) All Depths	LF	399	\$	\$
	20	901	30-Inch CIPP Sewer Main Rehabilitation (Water Cured) All Depths	LF	1382	\$	\$
	21	901	42-Inch CIPP Sewer Main Rehabilitation (Water Cured) All Depths	LF	1752	\$	\$
3	22	910.1	Manhole Rehabilitation	VF	317	\$	\$
	23	1103	24- Inch Pipe Point Repair , All Depths	EA	1	\$	\$
	24	1103	27- Inch Pipe Point Repair , All Depths	EA	1	\$	\$
	25	1103	42- Inch Pipe Point Repair , All Depths	EA	2	\$	\$





Solicitation No. CO-00149

SAWS Job No 17-4527

Proposal Eastern Sewershed Package IV

26	1103.2	Extra Length Point Repair, 27-Inch Pipe, All Depths	LF	93	\$	\$
27	1103.4	Obstruction Removal by Remote, 24" Diameter, All Depths	EA	1	\$	\$
28	1103.4	Obstruction Removal by Remote, 42" Diameter, All Depths	EA	21	\$	\$

## Special Provisions to Technical Specifications

### A. Special Provision to Item NO. 540 Storm Water Pollution Prevention Plan

Item No. 540 “Storm Water Pollution Prevention Plan” is hereby amended with respect to the clauses cited below and no other clauses or requirements of this item are waived or changed hereby.

**Under 540.1 Description: Add the following paragraph to section 540.1 Description:**

For additional Stormwater Pollution Prevention Requirements, reference the attached SW3P Notice to Permit Holder regarding updates to the Construction Stormwater Ordinance (Ord. 94002) effective January 1, 2017 attached to the end of the special Provisions to Technical Specifications.

Revise the following:

**Under 540.4 Measurement:**

This item is measured as lump sum, and shall include installation and maintenance of control measures necessary to prevent and control soil erosion, sedimentation and water pollution as necessary to comply with this item of work.

**Under 540.5 Payment:**

Payment shall be made per lump sum. This price shall be full compensation for furnishing and installing all labor, materials, supplies, equipment and incidentals necessary to complete this item of work as well as preparation of Texas Professional Engineer signed and sealed storm water pollution prevention plan. The lump sum price will be pro-rated based on the number of calendar days in the project contract.

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### B. Special Provision to Item NO. 866 Sewer Main Television Inspection

Item No. 866 “Sewer Main Television Inspection” is hereby amended with respect to the clauses cited below and no other clauses or requirements of this item are waived or changed hereby.

Revise the following:

**866.1 Description: Delete** this section in its entirety and **Replace** 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:** Delete this section in its entirety and **Replace** with the following:

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

After construction of the sanitary sewer main and prior to placement of the final course of asphalt or other final surfaces, 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:** Delete this section in its entirety and **Replace** 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;
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. Name of Contractor;
5. Name of Contractor;
6. Date video submitted;
7. Data storage device number;
8. SAWS Inspector Name.

**Under 866.8 Measurement and Payment:**

Item 866.8, Section 2. Category, b. shall be revised to **18” through 27”**.

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**C. Special Provision to Item NO. 855 Reconstruction of Existing Manholes**

**855.4.3 Materials: ADD the following:**

3. Manhole Ring and Cover:
    - f. Manhole covers located outside the floodplain shall be vented as indicated in the plans. Vent shall consist of a single one (1) inch hole drilling in the center of the manhole cover. Hole shall be drilled by manufacturer or at a machine shop. No field drilling of the cover shall be allowed.
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**D. Special Provision to Item NO. 901 Rehabilitation of Sanitary Sewer by Cured-in-Place Pipe (Hot Water or Steam Cured)**

**Under 901.1 Description: Delete** this section in its entirety and **Replace** with the following:

This specification includes requirements to rehabilitate existing sanitary sewers by installation of a resin-impregnated flexible tube, which is formed to the original conduit. The liner is inserted via an existing manhole or other access. The lining shall be installed using the following insertion method:

1. Water inversion- where the lining is inverted under the pressure of water and cured by circulating hot water.

**Under 901.3.4 Submittals: ADD** the following:

4. Design calculations shall be identified by manhole numbers and segment identifies included in the plans.

**Under 901.3.6 Submittals: Add** the following:

6. Map shall provide sufficient detail to indicate which pipe segments will be installed from each insertion location. Map shall also show any locations for field wet-out (“over the hole”) insertion locations. Indicate source of water and pipeline route for each segment cured by hot water. Indicate location for any site built towers or other temporary structures needed to obtain sufficient pressure head for liner installation.

**Under 901.4.3.e.6 Materials: Delete** this section in its entirety and **Replace** with the following:

- 6) Soil Modulus: 500 psi. Contractor may submit calculations signed and sealed by a Texas Professional Engineer utilizing other values for soil modulus so long as those values are part of the sealed calculations, and the calculation method complies with ASTM F1216. Allowable soil modulus shall not exceed 1,000 psi.

**Under 901.4.3.e.7 Materials: Delete** this section in its entirety and **Replace** with the following:

- 7) Groundwater depth shall be assumed at ground surface.

**Under 901.4.4 Materials: Delete** this section in its entirety and **Replace** with the following:

4. Acceptable Manufacturer
  - a. CIPP product must meet all requirements set forth in this Specification Item No. 901.

**Under 901.5.1.a Construction: Delete** this section in its entirety and **Replace** with the following:

1. Installer Qualification Requirements
  - a. Installation of the CIPP products shall be performed by a work force that is experienced and certified in installation of the products. The installer shall be certified by the CIPP product manufacturer to have been trained and approved in the installation of their CIPP products and have a minimum of five (5) years total experience with the product.

- b. Contractor shall also submit to Owner at least five (5) recent references of the CIPP installer, indicating successful installation of proposed hot water cured CIPP on projects of at least 5,000 linear feet of 24” or larger pipe. References shall include date completed, bid amount, final contract amount (including change orders), and reference contact information (owner, contract name, title, and phone number).
- c. CIPP installer’s project manager shall have a minimum of five (5) years of CIPP installation experience and must be on-site during the installation of the CIPP products. Experience shall be documented to the Owner’s satisfaction in the form of a resume of work experience detailing scope of work (linear footage and pipe diameters), location of work, and reference contact information (owner, contact name, title, and phone number).
- d. Installer’s superintendent shall have a minimum of ten (10) years of CIPP installation experience and must be on-site during the installation of the CIPP products. Experience shall be documented to the Owner’s satisfaction in the form of a resume of work experience detailing scope of work (linear footage and pipe diameters), location of work, and reference contact information (owner, contact name, title, and phone number).

All other language in this specification 901 remains in full force.

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## E. Special Provision to Item NO. 1114 (Pre-Construction Video)

**1114.3 Execution:** Delete this section in its entirety and **Replace** with the following:

Prior to beginning the project, the contractor shall submit two copies for the complete DVD for the entire project prior to submission of request for mobilization for review and approval. Failure to submit DVD will result in denial of any request for payment under the Mobilization line item or Preparation of Right-of-Way.

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## F. Special Provision to Item NO. 100 Mobilization

**100.2 Measurement:** Delete this section in its entirety

**100.3 Payment:** Delete this section in its entirety and **Replace** with following:

Mobilization, including cost for insurance and bonds, will not be measured or paid for directly, but shall be included in the unit price bid for the items of construction in which the work occurs.

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G. Special Provision to Item NO. 101 Preparing Right-of-Way

**101.3 Measurement:** Delete this section in its entirety

**101.4 Payment:** Delete this section in its entirety and **Replace** with following:

Preparing Right-of-Way will not be measured or paid for directly, but shall be included in the unit price bid for the items of construction in which the work occurs.

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February 11, 2017

Dear Permit Holder,

The City of San Antonio City Council voted to update the Construction Stormwater Ordinance (Ord. 94002) on June 19, 2014. The amended Ordinance is called 2014-06-19-0472.

Beginning **January 1, 2017** all active, permitted construction sites will need to have a Stormwater Pollution Prevention Plan with all documents designed and signed by either a Licensed Engineer (Texas), Certified Professional in Erosion and Sedimentation Control (CPESC) or Licensed Landscape Architect. Additionally, erosion control best management practice inspections can only be performed by Licensed Engineers, CPESC, Certified Erosion, Sediment and Stormwater Inspector (CESSWI) or Certified Inspector of Sediment and Erosion Control (CISEC).

Under the current Texas Pollutant Discharge Elimination Permit, the State of Texas does not provide certification. This may change when the State Permit is re-authorized in 2018. Construction sites operating without the signed SWPPPs or whose inspections are not conducted by a certified inspector may face compliance actions up to a Stop Work Order and/or fines.

Please follow this link for a copy of Ordinance 2014-06-19-0472:

<http://www.saws.org/Environment/ResourceProtComp/Construction/docs/Ordinance2014-06-19-0472.pdf>

Visit us on the web at [www.saws.org/swconstruction](http://www.saws.org/swconstruction) for more information on the San Antonio Water System's Stormwater Construction Monitoring Program.

For questions, contact Erik Hobson, Stormwater Construction Supervisor, at [ehobson@saws.org](mailto:ehobson@saws.org).

LPH-1



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.

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## **Article V- Contract Responsibilities**

Section 5.3 of the General Conditions Shall be amended as follows:

Add the following Paragraph at the end of Section 5.3:

It is the Contractor's responsibility to make arrangements with SAWS development services, and at the Contractor's expense, for a temporary meter and any water usage, at Contractor's expense, to be using during construction.

Section 5.7 of the General Conditions shall be amended as follows:

Remove Section 5.7.1.1.7.8 in its entirety and replace with the following:

Installation Floater - Physical Damage Insurance which insures SAWS and the City for damages to all Property Purchased for, or Assigned to, the Project commencing on the start date through completion. Policy limits shall be in an amount equal to the total contract cost contracted herewith. The policy form shall be an All Risk form and shall include coverage for both during transit and while stored at the project location.

Section 5.13 of the General Conditions shall be amended as follows:

Section 5.13.5, shall be amended to take out the last sentence and to add the following:

The Bidder is required to submit a baseline schedule as part of the bid. The baseline schedule shall be a detailed, precedence-style critical path management schedule in Microsoft Project format. The baseline schedule must encompass the entire contract duration from Notice to Proceed to the Contract End Date. This baseline schedule must show a completion date that corresponds to the Contract End Date. The baseline schedule must be inclusive of all work necessary to complete the project including sufficient time necessary for submission and review of submittals, permits, etc. The baseline schedule must be broken up per "Project Location" with the requirement that work on a new "Project Location" can't begin until work on a "Project Location" that has started must be completed as described within the Special Conditions. For the

purpose of preparing this baseline schedule, all bidders shall assume a notice to proceed date of August 5, 2018. Failure to include this baseline schedule with the bid documents may result in the bidder being considered non-responsive.

The remaining sections of Article V shall remain the same.

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### **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 will be assessed as follows for final completion extending beyond contract time:

Liquidation Damages Charges		
Category	Duration (Days)	Charge (\$) per day
Tier 1	1-7	\$ 460.00
Tier 2	8-14	\$ 540.00
Tier 3	15-21	\$ 600.00
Tier 4	22-28	\$ 640.00
Tier 5	29-35	\$ 670.00
Tier 6	36-42	\$ 690.00

Any days tallied after 42 days will be assessed as a Tier 6 rate.

The remaining sections of Article VIII shall remain the same.

**B. Union Pacific Railroad.**

The Contractor shall be aware that portions of the work being performed are within railroads right-of-way. The Contractor must submit a written scheduling request to the railroad company's scheduling agent a minimum of ninety (90) business days in advance of the installation of the proposed sanitary sewer line. The Contractor's written request must be delivered to the railroad's scheduling agent at the following location:

Mr. Justin K. Mahr  
Manager  
Union Pacific Railroad Company  
1400 Douglas Street STOP 1690  
Omaha NE 68179  
Phone: (402) 544-8620 / jkmahr@up.com

The railroad company may provide at the Contractor's expense an inspector and flagman to oversee the work within railroad right-of-way. No payment shall be made for the efforts expended by the Contractor with the railroad company. The Contractor is responsible for meeting all requirements of the railroad company. The costs for the services described herewith shall not be paid separately but shall be included in the relevant bid items established in the bid proposal.

Contractor is advised that placement of temporary pipelines through UPRR box culverts and bridges will be allowed with the following conditions, as approved by the Railroad:

- Maximum allowable duration is 3 months.
- The pipe shall not reduce the existing Railroad structure's hydraulic opening greater than 5%, or as otherwise required by the Railroad.
- The pipe shall not cross the drainage flow and shall remain on one side of the channel.

A copy of the UPRR Permit is attached to the Special Conditions.

- For a Railroad box culvert – The pipe should cross along the outside edge of the box culvert.
- The pipe shall be secured in place with anchors.
- The pipe cannot attach to the Railroad structure.
- Additionally, no excavation is permitted within 15 feet of track centerline.  
Contractor is advised that a UPRR flagman should be present for work within 25 feet of centerline of track.

Exceptions to these requirements will not be allowed.

A copy of the UPRR, is attached in Project Manual for Contractor Reference.

**G. Contractor Work in City of San Antonio Parks.**

Contractor scope of work includes areas owned by the City of San Antonio Parks and Recreation Department (PARD), specifically within John James Park and Tobin Park. Contractor is not allowed to access parks through use of existing paved trails/paths. All contractor equipment and materials shall not be located closer than 10 feet from edge of trails/ path, and shall limit work zone and access as defined in the Construction Plans. Working hours shall be as follows:

- At John James Park, work will not be permitted after 4:00PM or on weekends
- At Tobin Park, work will be allowed during normal hours indicated in Contract; however, installation of bypass system shall be installed at night.

Please refer to Construction Plans and General Notes Sheet for additional PARD requirements.

**H. Right of Entry.**

The Contractor is advised that access routes have been identified and included in the contract documents. SAWS have secured right of Entry (ROE) along provided properties and included as attachment to these special conditions.

**I. Project Location.**

“Project Locations” are defined as indicated in the Suggested Bypass and Access Route plan sheets, Project Locations J, K, P, T, and Z. Once work has begun on a “Project Location”, work on that particular “Work Location” needs to reach substantial completion prior to commencement of work on the next “Project Location”. The Contractor is not permitted to begin work on the next “Project Location” without receiving written approval from SAWS that substantial completion on the previous “Project Location” is complete.

After substantial completion has been achieved for a “Project Location”, final completion must be completed with 30 days. The Contractor is required to provide the SAWS Inspector and the Engineer final redlines before the “Project Location” can qualify for final completion.

Substantial completion is accomplished when all rehabilitation work has been completed, tested, and the sewer system has been accepted for service. Final completion is accomplished when the final punch list is approved by SAWS, all infrastructure is in the ground, and when final surface restoration is complete

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**ESTIMATED QUANTITIES**

ITEM NO.	DESCRIPTION	UNIT	QUANT.
1	COSA-413.1* FLOWABLE FILL (LOW STRENGTH)	CY	50
	COSA-520* HYDROMULCH	SY	2200
530.1	BARRICADE, SIGNS, AND TRAFFIC HANDLING	LS	1
1	COSA-540 STORM WATER POLLUTION PREVENTION PLAN	LS	1
550	TRENCH EXCAVATION SAFETY PROTECTION	LF	130
851.1	MANHOLE ADJUSTMENT	EA	23
852.1	SANITARY SEWER MANHOLE, (0-6' DEPTH)	EA	1
852.2	SANITARY SEWER MANHOLE, (EXTRA DEPTH MANHOLE)	VF	6
855	RECONSTRUCTION OF EXISTING MANHOLE	EA	3
858	CONCRETE ENCASEMENT, CRADLES, SADDLES, AND COLLARS	CY	17
864-S2	BYPASS PUMPING LARGE DIAMETER (PROJECT LOCATION J)	LS	1
864-S2	BYPASS PUMPING LARGE DIAMETER (PROJECT LOCATION K)	LS	1
864-S2	BYPASS PUMPING LARGE DIAMETER (PROJECT LOCATION P)	LS	1
864-S2	BYPASS PUMPING LARGE DIAMETER (PROJECT LOCATION T)	LS	1
864-S2	BYPASS PUMPING LARGE DIAMETER (PROJECT LOCATION Z)	LS	1
866	SEWER MAIN TELEVISION INSPECTION (18" THROUGH 27")	LF	11428
866	SEWER MAIN TELEVISION INSPECTION (30" AND LARGER)	LF	3134
901	24-INCH CIPP SEWER MAIN REHABILITATION (WATER-CURED) ALL DEPTHS	LF	11029
901	27-INCH CIPP SEWER MAIN REHABILITATION (WATER-CURED) ALL DEPTHS	LF	399
901	30-INCH CIPP SEWER MAIN REHABILITATION (WATER-CURED) ALL DEPTHS	LF	1382
901	42-INCH CIPP SEWER MAIN REHABILITATION (WATER-CURED) ALL DEPTHS	LF	1752
910.1	MANHOLE REHABILITATION	VF	317
1103	24-INCH PIPE POINT REPAIR, ALL DEPTHS	EA	1
1103	27-INCH PIPE POINT REPAIR, ALL DEPTHS	EA	1
1103	42-INCH PIPE POINT REPAIR, ALL DEPTHS	EA	2
1103.2	EXTRA LENGTH POINT REPAIR, 27-INCH PIPE, ALL DEPTHS	LF	93
1103.4	OBSTRUCTION REMOVAL BY REMOTE, 24" DIAMETER, ALL DEPTHS	EA	1
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\* SEE SHEET 3 GENERAL NOTES, ADDITIONAL NOTE 16.

THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY  
**LUIS A. CUELLAR**  
 P.E. 89656  
 4/25/2018

*R.A. Aw*

**RPS** klotz associates

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NO.	REVISION	DATE
1	UPDATED BID ITEM DESCRIPTION	4/11/18
2	REVISED QUANTITIES	4/25/18

**EA** EASTERN SEWERSHED PACKAGE IV INDEX AND QUANTITIES

DEVELOPER: SAN ANTONIO WATER SYSTEM  
 CONT. BUDGET PROJ.

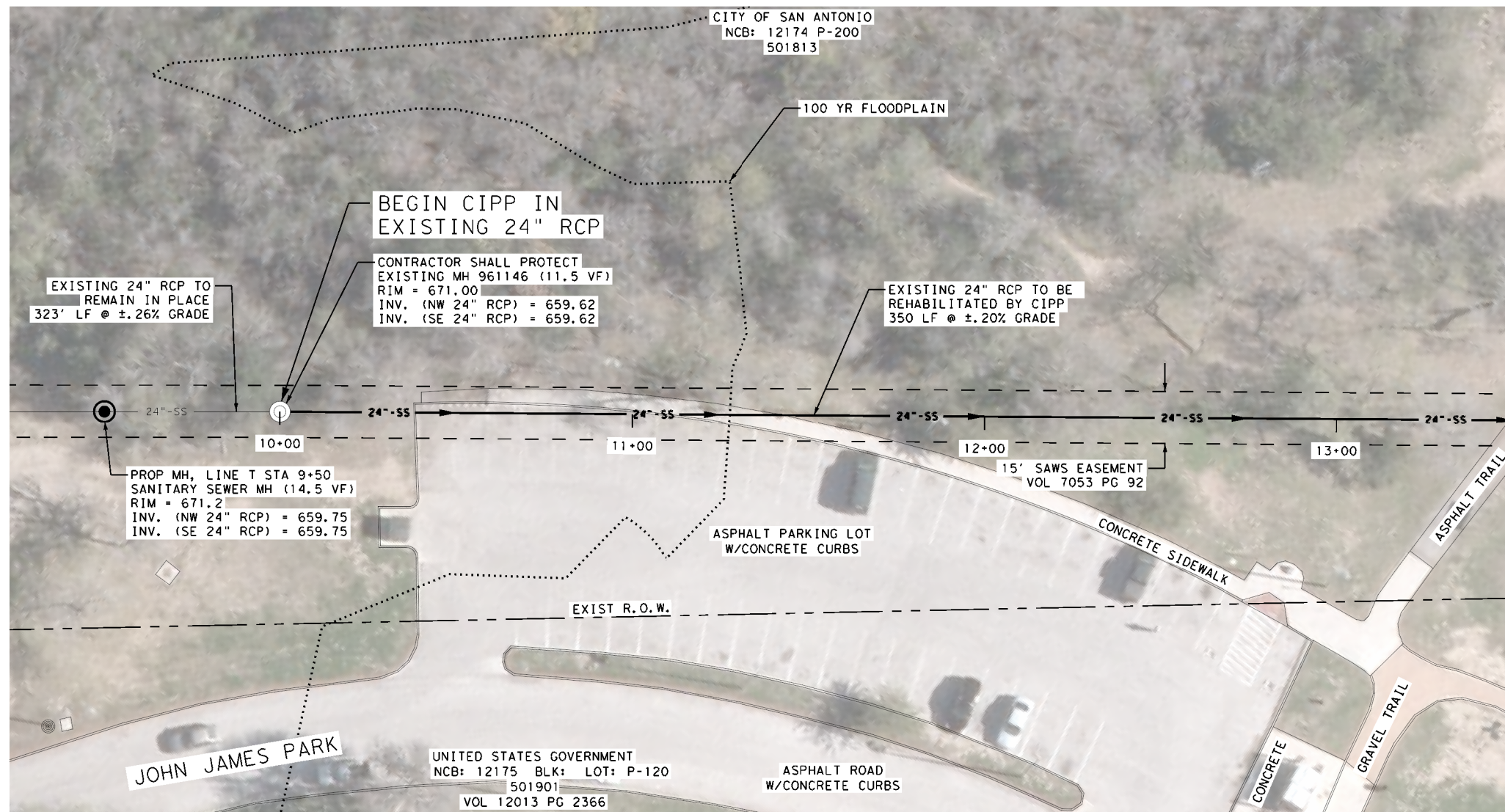
SUBMITTED 1/5/2018  
 APPROVED \_\_\_\_\_

MAP No.	SHEET: 2 OF 61	SHEET
DR.	CK.	JOB No. 17-4527

4/25/2018 8:34:06 AM T:\007555\2017\PipeLines\Eng\_Svc\_PS-00035-07\101\01\_00\_CADD\ESP4\02-I\_Genergl\SMIS+ESP4+IDx+0TY.dgn



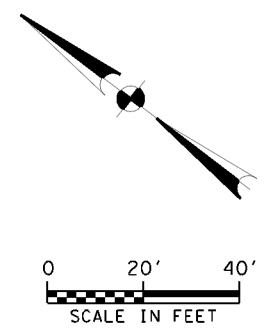
4/25/2018 8:12:27 AM T:\007555\2017\_PipeLines\_Eng\_Svc\_PS-00035-07\_W01\01\_00\_CADD\ESP4\07-V1\_UH\11\files\SAWS+ESP4\*T9-1.dgn



MATCH LINE - STA. 13+50

**SAWS LEGEND**

REHABILITATE SANITARY SEWER MH		PROPERTY LINE/R.O.W.	
REHABILITATE SANITARY SEWER		EXISTING SANITARY SEWER	
PROPOSED NEW SANITARY SEWER MH		EXISTING WATER MAIN	
EXISTING SANITARY SEWER MH		EXISTING STORM SEWER	
SUGGESTED ACCESS ROUTE		EXISTING GAS	
SUGGESTED BYPASS ROUTE		EXISTING OVERHEAD ELECTRIC	
SAWS EASEMENT		EXISTING FENCE	
100 YR FLOODPLAIN		EXISTING RAILROAD	



**NOTES**

- 1 THE EXISTING UNDERGROUND UTILITIES SHOWN ON THESE PLANS ARE BASED UPON RECORDED INFORMATION ONLY AND ARE APPROXIMATE. THE EXACT LOCATION OF ALL EXISTING UNDERGROUND UTILITIES SHALL BE FIELD VERIFIED BY THE CONTRACTOR. THE CONTRACTOR SHALL CONTACT TEXAS STATE WIDE ONE CALL (811) PRIOR TO THE BEGINNING OF WORK. CONTRACTOR SHALL TAKE FULL RESPONSIBILITY FOR ALL AND ANY DAMAGES THAT MIGHT OCCUR BY HIS FAILURE TO ACCURATELY LOCATE ALL EXISTING UNDERGROUND UTILITIES AND PRESERVE
- 2 ALL CONSTRUCTION ACTIVITY SHALL BE MAINTAINED WITHIN THE SAWS EASEMENT UNLESS A TEMPORARY CONSTRUCTION EASEMENT, AGREEMENT, OR RIGHT OF ENTRY PERMITTING IS PROVIDED BY SAWS.
- 3 CONTRACTOR IS RESPONSIBLE FOR MAINTAINING SEWER SERVICE TO EXISTING SEWER MAINS AND SERVICES AT ALL TIMES.
- 4 CONTRACTOR SHALL MAINTAIN VEHICULAR ACCESS THROUGH ALL DRIVEWAYS FOR EMERGENCY ACCESS.
- 5 THE CONTRACTOR SHALL REFER TO THE SEWER LAYOUT AND CONTROL PLAN (SHEETS 4-9) FOR APPROXIMATE LOCATION OF 100 YEAR FLOODPLAIN.
- 6 PROPERTY LINES SHOWN ARE APPROXIMATE.

**ESTIMATED QUANTITIES**

ITEM NO.	DESCRIPTION	UNIT	QUANT.
852.1	SANITARY SEWER MANHOLE, (0-6' DEPTH)	EA	1
852.2	SANITARY SEWER MANHOLE, (EXTRA DEPTH MANHOLE)	VF	6
866	SEWER MAIN TELEVISION INSPECTION (18" THROUGH 27")	LF	350
901	24-INCH CIPP SEWER MAIN REHABILITATION (WATER-CURED) ALL DEPTHS	LF	350

1

3 SAWS ITEM 851.1 AND 910.1 HAVE BEEN REMOVED

**RPS klotz associates**

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No.	Revision	Drawn	Approved	Date
1	UPDATED BID ITEM DESCRIPTION	JP	LC	4/11/18
2	REVISED QUANTITIES	JP	LC	4/25/18

**REVISIONS**

**EASTERN SEWERSHED PACKAGE IV**

**SEWER PLAN - LINE T BEGIN TO STA. 13+50**

DEVELOPER: SAN ANTONIO WATER SYSTEM  
CONT. BUDGET PROJ.

SUBMITTED 1/5/2018  
APPROVED \_\_\_\_\_

MAP No.	SHEET: 31 OF 61	SHEET 31
SECT. No.	JOB No. 17-4527	