



2023 Sewer Main Replacement Project 3
Solicitation Number: CO-00724
Job No.: 23-4519

ADDENDUM 2
April 22, 2024

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.

CHANGES TO THE SPECIFICATIONS

- 1. Special Provisions to the Technical Specifications, Pages SPTS-1 to SPTS-12 – Remove and replace in its entirety with the revised version attached to this addendum.

A revision to SAWS Standard Specification Item No. 1103 (Point Repairs and Obstruction Removals) was added. Encasement of the exposed pipe using flowable fill (high strength) is required and incidental to the point repair cost, No Separate Pay Item (NSPI).

CHANGES TO THE PLANS

- 1. Remove the following and replace with the attached sheets.
 - Site A – Compkey 969666 & 968957, Sta. 4+00 to Sta 5+82.56 Sanitary Sewer Rehabilitation – Sheet 7
 - Added an AT&T underground telecommunication utility to the plan view and added a note for the contractor to verify location prior to construction.
 - Site E – Compkey 969187, Sta. 1+00 to Sta. 2+93.48, Sanitary Sewer Rehabilitation – Sheet 18
 - Added an AT&T underground telecommunication utility to the plan view and added a note for the contractor to verify location prior to construction.

END OF ADDENDUM

This Addendum, including this one (1) page, is fifteen (15) pages with attachments in its entirety.

Attachments:

- Special Provisions to the Technical Specifications (12 pages)
- Sheet 7 and 18 (2 pages)



April 19, 2024

Javier Garcia, P.E.
Garcia Infrastructure Consultants

Special Provisions to the Technical Specifications

Table of Contents

COSA Specifications

- Revision to COSA Standard Specification Item No. 520 (Hydromulching)
- Revision to COSA Standard Specification Item No. 530 (Barricades, Signs, And Traffic Handling).
- Revision to COSA Specification Item 535 (Hot Applied Thermoplastic Pavement Markings)
- Revision to COSA Specification Item No. 540 (Temporary Erosion, Sedimentation, and Water Pollution Prevention and Control).

SAWS Specifications

- Revision to SAWS Standard Specification Item No. 100 (Mobilization).
- Revision to SAWS Standard Specification Item No. 865 (Bypass Pumping Small Diameter Sanitary Sewer).
- Revision to SAWS Standard Specification Item No. 901 (Rehabilitation of Sanitary Sewer by Cured-in-place Pipe [Hot Water])
- **Revision to SAWS Standard Specification Item No. 1103 (Point Repairs and Obstruction Removals)**

TXDOT Specifications

- Revision to TxDOT Specification Item No. 6001 (Portable Changeable Message Sign)

**REVISION TO COSA STANDARD SPECIFICATION ITEM NO. 520 (HYDROMULCHING)
(ONLY APPLICABLE TO SITE 5 – BUENA VISTA ST.)**

520.2.MATERIALS: DELETE section **A. Seeds** in its entirety and **REPLACE** with the following:

- A. Seeds.** All seed must meet the requirements of the Texas Seed Law including the labeling requirements for showing purity, germination, name and type of seed. Seed furnished shall be of the previous season’s crop for the date of the project. Each variety of seed shall be furnished and delivered in separate bags or containers. A sample of each variety shall be furnished for analysis and testing when directed by the Engineer. The amount of seed planted per acre shall be of the type specified below and shall equal or exceed the following proportions for purity and germination or an equivalent amount of pure live seed.

Seed Mix (per acre)		Pounds/ PLS
Prairie Wildrye	<i>Elymus canadensis</i>	2
Virginia Wildrye	<i>Elymus virginicus</i>	2
Inland Sea oats	<i>Chasmanthium latifolium</i>	2
Buffalograss	<i>Buchloe dactyloides</i>	4
Blue grama	<i>Bouteloua gracilis</i>	2
Little Bluestem	<i>Schizachyrium scoparium</i>	4
Sideoats Grama	<i>Bouteloua curtipendula</i>	4
Switchgrass	<i>Panicum virgatum</i>	4
Eastern grama grass	<i>Tripsacum dactyloides</i>	3
Curly Mesquite	<i>Hilaria belangeri</i>	2
Illinois Bundleflower	<i>Desmanthus illinoensis</i>	5
Partridge Pea	<i>Chamaecrista fasciculata</i>	6
Indian Blanket	<i>Gaillardia pulchella</i>	2
Pink Evening Primrose	<i>Oenothera speciosa</i>	1
Mexican Hat	<i>Ratibida columnaris</i>	1
Green Sprangletop	<i>Leptochloa dubia</i>	2
		46 Total PLS lb/acre

This is a year-round mix, no additional species required for fall/winter planting.

DELETE section **C. Fertilizers.** in its entirety and **REPLACE** with the following:

- C. Fertilizers.** Not needed for native seeding

DELETE section **D. Tactifier and Binder.** in its entirety and **REPLACE** with the following:

- D. Tactifier and Binder.** Add Flexterra, or approved equivalent to bind the hydromulch to the soil.

DELETE section **F. Herbicide.** in its entirety and **REPLACE** with the following:

- F. Herbicide.** Herbicide must be approved for use in a floodplain and pre-approved by SARA/the Engineer.

520.4. CONSTRUCTION: DELETE section **B. Preparation of Subsoil** in its entirety and **REPLACE** with the following:

B. Preparation of Seedbed. Inspect seedbed and remove objectionable materials, such as rocks (2 inches in diameter and larger), concrete waste, building debris, weeds, grass or other material that would be detrimental to the growth of grasses. Protect existing underground improvements from damage.

The areas to receive hydromulch must be clear of exotic invasive species either by manual removal or herbicide. Once the seedbed is clear of exotic invasive species and all other objectionable material, the Contractor shall notify the Engineer/Inspector for an inspection.

Once approved, cultivate the seedbed to a depth of 3 inches in areas to receive hydromulch. If compaction is due to equipment, traffic or storage, cultivate to a depth of 6 inches.

DELETE section C. **Seeded Lawns.**, item 6. in its entirety and **REPLACE** with the following:

6. No fertilizer is needed for native seed applications.

DELETE section E. **Guarantee and Lawn Established Period.**, item 2. **Guarantee Period.** of thirty days (30) and **REPLACE** with ninety days (90).

All other language in Specification Item 520 shall remain in full force.

REVISION TO COSA STANDARD SPECIFICATION ITEM NO. 530 (BARRICADES, SIGNS, AND TRAFFIC HANDLING)

530.5 MEASUREMENT

DELETE this section in its entirety and REPLACE with the following:

This item will be measured by “Each” and quantified for each of the individual sites as indicated on the plans.

530.6 PAYMENT

DELETE this section in its entirety and REPLACE with the following:

This item will be paid for at the contract at the “per each” total price bid for each of the individual sites for “barricades, signs, and traffic handling”. This price shall be full compensation for furnishing all labor, materials, supplies, equipment, and incidentals necessary to complete the work as specified. The “per each” total price for each of the individual sites will be pro-rated based on the number of workdays in the project contract. Failure to complete the work within time allowed in the project contract due to approving designs, testing, material shortages, closed construction season, curing periods, and testing periods will not qualify for additional compensation. When additional work is added by an approved field alteration or when work is suspended for the convenience of the City, through no fault of the contractor, additional compensation may be paid to the Contractors.

530.7 BID ITEM

DELETE this section in its entirety and REPLACE with the following:

Item 530.1 - Barricades, Signs and Traffic Handling – by each

All other language in this specification 530 shall remain in full force.

REVISION TO COSA SPECIFICATION ITEM 535 (HOT APPLIED THERMOPLASTIC PAVEMENT MARKINGS)

535.6 PAYMENT: ADD the following:

The installation of the 12” solid black preformed thermoplastic pavement marking shall be considered incidental to the 24” wide white preformed thermoplastic pavement markings and shall not be paid for separately.

All other language in Specification Item 535 shall remain in full force.

REVISION TO COSA SPECIFICATION ITEM 540 (TEMPORARY EROSION, SEDIMENTATION, AND WATER POLLUTION PREVENTION AND CONTROL)

540.1 Description: Add the following language to this section:

Temporary erosion, sedimentation, and water pollution prevention and control will be considered subsidiary to other bid items (NSPI).

540.4 Construction: Add the following at the end of section 540.4(A)(2), following subsection (b):

(c) Stormwater Pollution Prevention Plan (SWPPP). Contractor shall prepare and submit 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. The Contractor's SWPPP shall reflect the Contractor's planned sequencing of work, selected construction methods, staging area(s), etc.

Add the following at the end of section 540.4(B)(3):

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).

540.5 Measurement: Replace the content of this section in its entirety with the following:

Temporary erosion, sedimentation, and water pollution prevention and control will be subsidiary to other bid items.

540.7 Payment: Delete this section in its entirety.

All other language in this specification 540 remains in full force.

REVISION TO SAWS STANDARD SPECIFICATION ITEM NO. 100 (MOBILIZATION)

100.3 PAYMENTS:

The statement to be replaced currently reads as follows:

1. *When 1% of the adjusted contract amount for construction items is earned, 50% of the "Lump Sum" bid or 5% of the total contract amount, whichever is less, will be paid.*
2. *When 5% of the adjusted contract amount for construction items is earned, 75% of the "remainder of the Lump Sum" bid or 10% of the total contract amount, whichever is less, will be deducted from the above amount.*
3. *When 10% of the adjusted contract amount for construction items is earned, 90% of the "remainder of the Lump Sum" bid or 15% of the total contract amount, whichever is less, will be paid. Previous payments under this item will be deducted from the above amount.*

The above statement is to be replaced with the following:

1. *At the first monthly pay application after Notice To Proceed (NTP), 90% of the "Lump Sum" bid will be paid.*
2. *When 75% of the adjusted contract amount for construction items is earned, the remaining 10% of the "remainder of the Lump Sum" bid will be paid.*

All other language in specification 100 shall remain in full force.

REVISION TO SAWS STANDARD SPECIFICATION ITEM NO. 865 (BYPASS PUMPING SMALL DIAMETER SANITARY SEWER)

865.7 Measurement: DELETE this paragraph in its entirety and REPLACE with the following:

1. *Measurement for the work specified herein will be per each project location and shall include pumps, pipe, plugs, transmitters and any other items required for successful bypass pumping.*

865.8 Payment: DELETE this paragraph in its entirety and REPLACE with the following:

1. *Payment of the “Per Each” bid for Bypass Pumping shall be in accordance with the following:*
 - a. *Any effort required for multiple set-ups and operations shall be included in the per each price.*
 - b. *When initial set-up and operation of the bypass pumping system begins (including a successful test), 20% of the “Per Each” cost will be paid as applicable to the bypass system used, stationary bypass pumping or pump and haul bypass systems.*
 - c. *60% of the “Per Each” cost will be paid over equal monthly payments (estimated from the BPP or other documentation approved by the Inspector) during the course of the bypass pumping operation as applicable to the bypass system used, stationary bypass pumping or pump and haul bypass systems.*
 - d. *20% of the remaining “Per Each” cost will be paid upon an acceptable removal and/or disassembly of all components of the BPP, including site cleanup as applicable to the bypass system used, stationary bypass pumping or pump and haul bypass systems.*
 - e. *For multi-bypass pumping setups, payment will be proportional to the overall amount of the established bid line item.*
 - f. *Restoration of damaged or impacted private or public properties from this work is considered incidental to this pay item.*

All other language in Specification Item 865 shall remain in full force.

REVISION TO SAWS STANDARD SPECIFICATION ITEM NO. 901 (REHABILITATION OF SANITARY SEWER BY CURED-IN-PLACE PIPE [HOT WATER])

Add the following language to the respective subsections:

901.1 DESCRIPTION: This work shall be completed at the designated locations described in the Contract.

901.2 SUBMITTALS: The Contractor shall submit to SAWS the plan to rehabilitate all identified voids.

901.4 MATERIALS

5. Grout

- a. Unless otherwise specified, all grouting shall be done with non-shrinking grout.
- b. Non-shrinking grout shall be furnished factory premixed so only water is added at the job site.
- c. Grout shall be mixed in a mechanical mixer.
- d. All proportioning and mixing of the components shall be in accordance with manufacturer recommendations.
- e. If needed, any additional grouting of voids after pipe liner installation shall meet the requirements of Specification Item No. 1101, "Slip-Lining Grout," and shall be cementations, flowable type, specifically designed for pipeline annulus injection.

901.5 CONSTRUCTION: The Contractor shall perform grouting work described in the contract documents, prior to pipe liner installation to correct existing deficiencies, such as voids. The contractor shall install formwork to provide appropriate support for grouting voids to provide a suitable host pipe. After grouting work has been completed and accepted by SAWS Inspector and/or Engineer, the Contractor will be allowed to proceed with pipe liner installation. All pipe liner installation shall be sealed to the host pipe and connecting manholes at the terminal ends of the liner to prevent flow between the liner and host pipe.

If required after pipe liner installation, any voids or annular space shall be injection grouted. The liner must be positioned and secured to facilitate its complete encapsulation by grout. Contractor must ensure the maximum pressure developed by the grout does not exceed the manufacturer's recommendation for the

maximum allowable external pressure for the liner pipe. Depending on the location and size of the voids, additional grouting may be required in these areas. The voids must be filled to the satisfaction of the Engineer at no additional cost.

901.8 PAYMENT (*This section does not apply for Site 33)

8. **INSTALL CIPP 18" SANITARY SEWER PIPE (HOT WATER), ALL DEPTHS (PAY ITEM SP901):** Work included in this item shall include and the price provided by the Contractor will be considered as full compensation for furnishing and placement of all materials, labor, tools, equipment, testing, preparation, repairs, inspection, phasing, protection, work execution and any other work necessary or incidental to complete the project as described in Subsection 901.5 CONSTRUCTION. The inserted pipe will be paid for at the contracted bid price per linear foot

of pipe installed using the CIPP method complete in place for the type and size constructed. Said price shall be full compensation for furnishing all materials, all submittals, sealing materials at manholes/structures and annulus (if required), launching pits, receiving pits, post testing, shoring, bedding, backfilling, curing, site restoration, and all necessary, corresponding, and related work to complete the project. Site restoration (including but not limited to replacement of pavement, sidewalks, driveways, curbing, landscaping, sodding, etc.) will not be paid for separately and shall be considered subsidiary to Special Provision SP901.

REVISION TO SAWS STANDARD SPECIFICATION ITEM NO. 1103 (POINT REPAIRS AND OBSTRUCTION REMOVALS)

1103.5 CONSTRUCTION, 7. Typical Sequence of Point Repair, Paragraph P.

The statement to be replaced currently reads as follows:

- p. Encase exposed pipe in cement stabilized sand or flowable fill.

The above statement is to be replaced with the following:

- p. Encase exposed pipe in flowable fill (high strength).

1103.7 PAYMENT, Add the following to Paragraph 4

- h. No separate pay item (NSPI) is provided for the flowable fill for the exposed pipe encasement. The cost for the flowable fill encasement is incidental to point repair cost.

All other language in this specification 540 remains in full force.

REVISION TO TXDOT SPECIFICATION ITEM NO. 6001 (PORTABLE CHANGEABLE MESSAGE SIGN)

6001.3 CONSTRUCTION: DELETE the first paragraph in this section in its entirety and **REPLACE** with the following:

Place or relocate PCMS units as shown on the plans or as directed. The plans show the number of PCMS units needed.

6001.4 MEASUREMENT: DELETE this paragraph in its entirety and **REPLACE** with the following:

This item will be measured by each PCMS used.

All other language in Specification Item No. 6001 shall remain in full force.



HORIZ. SCALE: 1"=40'
0 20 40
SCALE IN FEET

EXIST. A2 (SMART) (SAWS #8051)
STA: 4+10.68
RIM: 755.16
REHABILITATE EXIST. 4' DIA. CONC.
MH PER SAWS SPEC. 910 (6.13VF)
EXIST. MH ADJUSTMENT PER SAWS SPEC 851
INSTALL WATER TIGHT RING AND COVER
INV IN: 749.05 8" PVC
INV OUT: 749.03 8" PVC

110 RIDGEMONT AVE.
LOT 7, BLK. 17, C.B. 5742
OWNER: SASSER FORD C
& VIRGINIA H
STA. 4+11± TO
STA. 4+88±
(77 L.F.)-8" PVC
POINT REPAIR

112 RIDGEMONT AVE.
LOT 6, BLK. 17, C.B. 5742
OWNER: KOCUREK SHARON MARTIN
10' UTILITY EASEMENT
(VOL.980 / PG. 140)

EXIST. MH A3 (SAWS #8052)
STA: 5+82.56
RIM: 764.85
REHABILITATE EXIST. 4' DIA. CONC.
MH PER SAWS SPEC. 910 (5.50VF)
EXIST. MH ADJUSTMENT PER SAWS SPEC 851
INSTALL WATER TIGHT RING AND COVER
INV IN: 760.20 8" CP (S)
INV OUT: 759.35 8" CP (W)

STA. 4+01± TO
STA. 4+10±
(9 L.F.)-8" CIPP
POINT REPAIR
LINE A1
10.68 L.F. - 8" CIPP
● 4.07% SL.

LINE A2
171.88 L.F. - 8" CIPP
● 6.49% SL.

LINE A - PROP. 8" Ø SANITARY SEWER
POINT REPAIR AND CIPP REHABILITATION SEGMENT (969666 & 968957)

1
SCALE: 1" = 40' (H)

SHEET NOTES

- EASEMENTS FOR PUBLIC UTILITIES OUTLINED IN THE TERRELL HILLS SUBDIVISION PLAT RECORDED IN VOLUME 980, PAGE 140 & 141A, O.P.R.R.P.B.C.T.
- THE POINT REPAIR FOR 119 ZAMBRANO CAN BE ACCESSED FROM SHERATON DRIVE UTILIZING THE 10-FT WORK AREA SHOWN IN THE CONSTRUCTION ROE.
- THE 10-FT. WORK AREA SHOWN IN CONSTRUCTION ROE IS MEASURED FROM THE SANITARY SEWER CENTERLINE. ALL STRUCTURES (BUILDINGS, FENCES, HARDSCAPE FEATURES) AND UTILITIES (I.E. GAS, ELEC., WATER, TELE., CABLE, ETC.) WITHIN THE WORK AREA SHALL BE PROTECTED DURING CONSTRUCTION. ANY DAMAGE SHALL BE REPAIRED TO BETTER THAN EXISTING CONDITION (ALLOWANCE PAY ITEM 3001).

KEY NOTES

- EXISTING POWER POLE IS WITHIN 5-FT FROM THE SAN. SWR. M.H. AND MAIN, COORDINATE WITH CPS ENERGY TO PROVIDE TEMPORARY BRACING AS REQUIRED DURING POINT REPAIR CONSTRUCTION.
- EXISTING RETAINING WALL, FENCING, AND WOODEN STAIRS SHALL BE PROTECTED DURING CONSTRUCTION. ANY DAMAGE SHALL BE REPAIRED TO BETTER THAN EXISTING CONDITION AT CONTRACTORS EXPENSE (N.S.P.I.).
- PROTECT EXISTING WATER METERS AND SERVICE CONNECTIONS. ANY DAMAGE SHALL BE REPAIRED TO BETTER THAN EXISTING CONDITIONS AT CONTRACTORS EXPENSE (N.S.P.I.).
- EXISTING MANHOLE A2 TO BE REHABILITATED IS EQUIPPED WITH A SMART COVER. NOTIFY SAWS PRIOR TO COMMENCING CONSTRUCTION FOR DEACTIVATION. REFER TO SHEET 3, SAWS CONSTRUCTION GENERAL NOTES, SEWER SECTION, NOTE 9. ANY DAMAGE DONE TO THE SMART COVER WILL BE CHARGED TO THE CONTRACTOR (N.S.P.I.).
- EXISTING STORM DRAIN CURB INLET WITH SMALL DIAMETER (8" TO 12") RCP DIRECTED TOWARD REAR OF LOTS AND EXIST. UTILITY EASEMENT (REFER TO PHOTO M SHEET 9). ASSUMED OUTFALL IS ON NEW BRAUNFELS AVE. (REFER TO PHOTO A ON SHEET 8). TO ACCOUNT FOR THE POTENTIAL NEED TO REPLACE THE STORM DRAIN PIPE IN CONJUNCTION WITH THE SANITARY SEWER MAIN POINT REPAIRS PAY ITEMS 401 AND 410 ARE PROVIDED TO BE USED ONLY AS A NEEDED AS DETERMINED BY THE SAWS INSPECTOR.
- ACCORDING TO CCTV, EXISTING 8" CP SANITARY SEWER MAIN IS DRY AND HAS ONE SEWER LATERAL THAT IS CAPPED. SANITARY SEWER MAIN SHALL BE LEFT IN PLACE AS IS. CONTRACTOR TO CCTV THE SEWER LINE PRIOR TO CONSTRUCTION.
- APPROXIMATE LOCATION OF AT&T DIRECT BURIED (NO CONDUIT) FIBER OPTIC LINE. CONTRACTOR TO LOCATE AND VERIFY ALL UTILITIES PRIOR TO COMMENCING CONSTRUCTION (N.S.P.I.).

LEGEND	
ELECTRIC (OVERHEAD)	—OHE—
FENCE (CHAINLINK)	—O—O—
FENCE (WOOD)	—//—//—
FIBER OPTIC	—FO—
FLOW ARROW (EX.)	▶
FLOW ARROW (PR.)	▶
GAS MAIN (BURIED)	—UG—
GAS VALVE	⊕
PARCEL LOT LINE	— — — —
PARCEL R.O.W. LINE	— — — —
POINT REPAIR	▬▬▬▬▬▬
PAVEMENT REPLACEMENT	▨▨▨▨▨▨
POWER POLE	⊙
POWER POLE GUY WIRE	⤵
SANITARY SEWER MAIN (EX)	← SS →
EX. SANITARY SEWER MANHOLE	⊙
PR. SANITARY SEWER MANHOLE	⊙
STREET SIGN	⊙
TELEPHONE (BURIED)	—UGT—
TELEPHONE (OVERHEAD)	—OHT—
TELEPHONE MANHOLE	⊙
TELEPHONE PEDESTAL/BOX	⊙
WATER MAIN	—WL—
WATER METER	⊙
WATER VALVE/COVER	⊙

TEST HOLE TABLE		
NUMBER	DESCRIPTION	ELEVATION
TH-1	2" BLACK METAL GAS PIPE	754.43
TH-5	4" BLACK METAL WATER PIPE	759.63
TH-6	2" BLACK METAL GAS PIPE	761.18

ITEM #	DESCRIPTION	UNITS	Qty.
515.1	TOPSOIL (4" DEPTH) (COSA SPEC)	CY	19
516.1	BERMUDA SODDING (COSA SPEC)	SY	51
516.2	ST. AUGUSTINE SODDING (COSA SPEC)	SY	119
550	TRENCH EXCAVATION SAFETY PROTECTION	LF	87
851	ADJUST EXISTING MANHOLES	EA	2
866	SANITARY SEWER MAIN TELEVISION INSPECTION (PRE-CONSTRUCTION) (8"-15" DIA.)	LF	387
901.1	INSTALL CIPP SANITARY SEWER (8") (HOT WATER), (ALL DEPTHS)	LF	183
910.1	MANHOLE REHABILITATION	VF	12
1103.1	POINT REPAIR, 8" DIA. (UP TO 20 LF) (0'-10' DEPTH) (SDR 26, ASTM 2241, 160 PSI)	EA	2
1103.2	EXTRA LENGTH POINT REPAIR, 8" DIA. (0'-10' DEPTH) (SDR 26, ASTM 2241, 160 PSI)	LF	57
1109.4	SERVICE RECONNECTION (ALL DEPTHS) (W/ REMOTE CONTROL CUT DEVICE)	EA	3

LINE A - LATERAL TAPS COMPKES (969666 & 968957)			
NO.	STA. (+/-)	DIRECTION	DESCRIPTION
1	4+30	LT	REMOTE CUTTING TAP
2	4+40	RT	REMOTE CUTTING TAP
3	4+90	LT	REMOTE CUTTING TAP

TRENCH EXCAVATION SAFETY PROTECTION: CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR STRUCTURE/DESIGN/GEOTECHNICAL/SAFETY/ EQUIPMENT CONSULTANT, IF ANY, SHALL REVIEW THESE PLANS AND AVAILABLE GEOTECHNICAL INFORMATION AND THE ANTICIPATED INSTALLATION SITE(S) WITHIN THE PROJECT WORK AREA IN ORDER TO IMPLEMENT CONTRACTOR'S TRENCH EXCAVATION SAFETY PROTECTION SYSTEMS, PROGRAMS AND/OR PROCEDURES. THE CONTRACTOR'S IMPLEMENTATION OF THE SYSTEMS, PROGRAMS AND/OR PROCEDURES SHALL PROVIDE FOR ADEQUATE TRENCH EXCAVATION SAFETY PROTECTION THAT COMPLIES WITH, AS A MINIMUM, OSHA STANDARDS FOR TRENCH EXCAVATIONS. SPECIFICALLY, CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR SAFETY CONSULTANT SHALL IMPLEMENT A TRENCH SAFETY PROGRAM IN ACCORDANCE WITH OSHA STANDARDS GOVERNING THE PRESENCE AND ACTIVITIES OF INDIVIDUALS WORKING IN AND AROUND TRENCH EXCAVATION.

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STATE OF TEXAS
JAVIER GARCIA
83920
LICENSED PROFESSIONAL ENGINEER
3/15/24

No.	Revision	Drawn	Approved	Date
1	ADDENDUM 2	WF	RA	4/19/24

REVISIONS

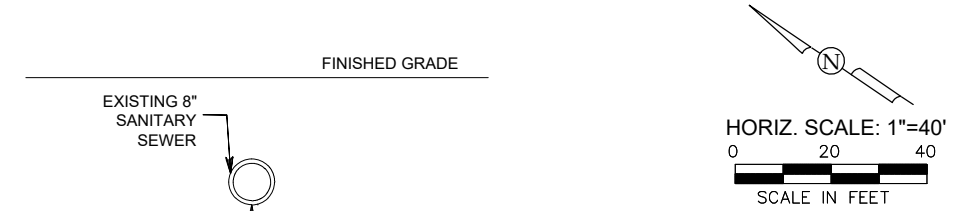
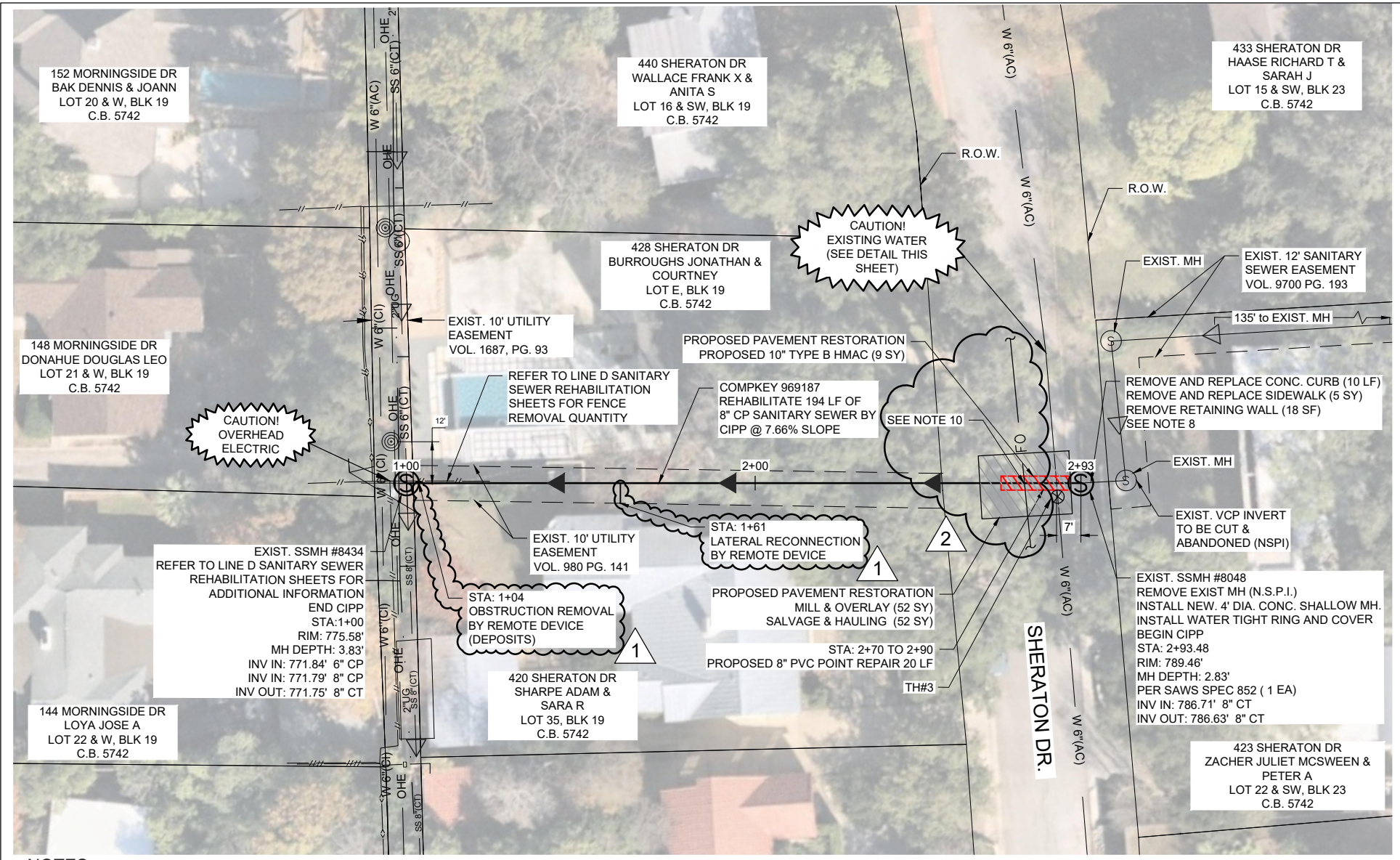
2023 SEWER MAIN REPLACEMENT PROJECT 3
SITE A - COMPKY 969666 & 968957
STA. 4+00 TO STA. 5+82.56
SANITARY SEWER REHABILITATION

DEVELOPER: SAN-ANTONIO-WATER-SYSTEM
CONT. BUDGET PROJ.

SUBMITTED _____
APPROVED _____

MAP No. 172-598 SHEET 7
SECT. No. 7
DR. RA CK. JG JOB No.23-4519 OF 46

File: L:\SHARE\ICADD\SAWS\1048-SSORP_CS10-V2_void\Drawings\Sheets\1048-SWR-A2.dwg Last Save: 4/18/2024 11:38 AM Last saved by: Walter Flores
Last plotted by: Walter Flores Plot Style: AECmon.ctb Plot Scale: 1:1 Plot Date: 4/18/2024 11:39 AM Plotter used: DWG To PDF.pc3



LEGEND

ELECTRIC (OVERHEAD)	—OHE—
FENCE (CHAINLINK)	—○—○—
FENCE (WOOD)	—//—//—
FIBER OPTIC	—FO—
FLOW ARROW (EX.)	▷
FLOW ARROW (PR.)	◼
GAS MAIN (BURIED)	—UG—
GAS VALVE	(GV)
PARCEL LOT LINE	—
PARCEL R.O.W. LINE	—
POINT REPAIR	▭
PAVEMENT REPLACEMENT	▨
POWER POLE	⊙
POWER POLE GUY WIRE	—
SANITARY SEWER MAIN (EX)	—SS—
EX. SANITARY SEWER MANHOLE	(S)
PR. SANITARY SEWER MANHOLE	(S)
STREET SIGN	⊙
TELEPHONE (BURIED)	—UGT—
TELEPHONE (OVERHEAD)	—OHT—
TELEPHONE MANHOLE	(TM)
TELEPHONE PEDESTAL/BOX	(TP)
WATER MAIN	—WL—
WATER METER	(WM)
WATER VALVE/COVER	(WV)

- NOTES**
- CONTRACTOR MUST FIELD VERIFY ALL DEPTHS, DISTANCES, PIPE SIZES, GRADES AND SERVICE LATERALS BEFORE START OF CONSTRUCTION. (N.S.P.I.)
 - CONTRACTOR SHALL SUPPORT AND PROTECT EXISTING UTILITIES DURING RECONSTRUCTION OF SANITARY SEWER LINES (POINT REPAIR) AND MANHOLES.
 - CONTRACTOR SHALL REFER TO CPS NOTES ON SHEET 3 FOR POWER POLE BRACING AND OTHER DETAILED INFORMATION.
 - CONTRACTOR SHALL REPLACE FENCE IF DAMAGED AS A RESULT OF CONSTRUCTION OPERATIONS. (N.S.P.I.)
 - CONTRACTOR SHALL REFER TO SAWS SPECIFICATION ITEM NO. 3000 HANDLING ASBESTOS CEMENT PIPE BACKFLOW PROTECTION FOR WATER HAULING EQUIPMENT AND/OR MIXING TANKS FOR PROTECTIVE MEASURE REQUIREMENTS WHEN EXPOSING THE EXISTING 6-INCH (AC) WATER MAIN. THE INTENT IS NOT TO REMOVE ANY PIPE; HOWEVER, QUANTITY IS REFLECTIVE OF REMOVAL IF NECESSARY.
 - SANITARY SEWER MAINS & MANHOLES TO BE REMOVED WILL BECOME THE CONTRACTOR'S PROPERTY AND SHALL BE DISPOSED OF IN COMPLIANCE WITH LOCAL AND STATE REGULATIONS (N.S.P.I.).
 - ALL MAINS ARE TO BE SDR 26 PVC (ASTM 2241-09) WITH A MINIMUM PRESSURE RATING OF 160 PSI.
 - CONTRACTOR TO REFER TO SP-02 IN THE CONTRACT DOCUMENTS FOR LANDSCAPING RESTORATION.
 - CONTRACTOR SHALL MAINTAIN ALL CONSTRUCTION ACTIVITIES WITHIN EXISTING EASEMENT AND R.O.W.
 - CONTRACTOR SHALL INVESTIGATE AND LOCATE THE EXIST UNDERGROUND AT&T FIBER OPTIC LINE PRIOR TO BEGINNING ANY CONSTRUCTION ACTIVITIES FOR THIS SITE. IF ENCOUNTERED, THE CONTRACTOR SHALL SUPPORT AND PROTECT THE EXISTING FIBER OPTIC LINE AT NO ADDITIONAL COST TO SAWS. ANY DAMAGES TO THE EXISTING FIBER OPTIC LINE DUE TO CONTRACTOR'S NEGLIGENCE SHALL BE REPAIRED IMMEDIATELY AT THE CONTRACTOR'S OWN EXPENSE.
- TRENCH EXCAVATION SAFETY PROTECTION:
CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR STRUCTURE/DESIGN/GEOTECHNICAL/SAFETY/ EQUIPMENT CONSULTANT, IF ANY, SHALL REVIEW THESE PLANS AND AVAILABLE GEOTECHNICAL INFORMATION AND THE ANTICIPATED INSTALLATION SITE(S) WITHIN THE PROJECT WORK AREA IN ORDER TO IMPLEMENT CONTRACTOR'S TRENCH EXCAVATION SAFETY PROTECTION SYSTEMS, PROGRAMS AND/OR PROCEDURES. THE CONTRACTOR'S IMPLEMENTATION OF THE SYSTEMS, PROGRAMS AND/OR PROCEDURES SHALL PROVIDE FOR ADEQUATE TRENCH EXCAVATION SAFETY PROTECTION THAT COMPLIES WITH, AS A MINIMUM, OSHA STANDARDS FOR TRENCH EXCAVATIONS. SPECIFICALLY, CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR SAFETY CONSULTANT SHALL IMPLEMENT A TRENCH SAFETY PROGRAM IN ACCORDANCE WITH OSHA STANDARDS GOVERNING THE PRESENCE AND ACTIVITIES OF INDIVIDUALS WORKING IN AND AROUND TRENCH EXCAVATION.

TEST HOLE DATA

NUMBER	DESCRIPTION	ELEVATION
3	6" A C WATER PIPE	784.82

1
18 SCALE: 1" = 40'

**LINE E - PROP. 8" Ø SANITARY SEWER
REHABILITATION COMPKEY 969187 - 194 L.F.**

ITEM #	DESCRIPTION	UNITS	EST. QTY.
103.1	REMOVE CONCRETE CURB	LF	10
103.3	REMOVE CONCRETE SIDEWALK AND DRIVEWAYS	SF	45
202	PRIME COAT	GAL	11
203	TACK COAT	GAL	5
205.2	HMAC, TYPE 'B' (10" COMP. DEPTH)	SY	9
205.4	HMAC, TYPE 'D' (2" COMP. DEPTH) (LOCAL/RESID. STREETS)	SY	52
208.1	SALVAGING, HAULING, AND STOCKPILING RECLAIMABLE ASP. PAVT.	SY	52
500.1	CONCRETE CURB	LF	10
502.1	CONCRETE SIDEWALK	SY	5
530.1	BARRICADES, SIGNS, AND TRAFFIC HANDLING (LINE 'E' - SHERATON)	LS	1
550	TRENCH EXCAVATION SAFETY PROTECTION	LF	9
852.2	SANITARY SEWER SHALLOW (SAWS DD-852-04) MANHOLES (4' DIA)	EA	1
865	SMALL DIAMETER BYPASS PUMPING (LINE 'E' - 8")	EA	1
866	SEWER MAIN TELEVISION INSPECTION (PRE-CONSTRUCTION) (8"-15" DIA.)	LF	194
901	REHABILITATION OF SANITARY SEWER BY CIPP (HOT WATER) (8" - ALL DEPTHS)	LF	194
1020	6" WATER MAIN BREAK/LEAK REPAIR	EA	1
1103.1	POINT REPAIR, 8" DIA., (UP TO 20 LF) (0'-10' DEPTH)	EA	1
1103.3	OBSTRUCTION REMOVAL (ALL DEPTHS) (W/ REMOTE DEVICE)	EA	1
3000	HANDLING ASBESTOS CEMENT PIPE	LF	13
1109.2	SERVICE RECONNECTION (ALL DEPTHS) (W/ REMOTE CONTROL CUT DEVICE)	EA	1
SP-01	REMOVAL AND REPLACEMENT OF FENCES (ALL TYPES, SIZES)	LS	1
SP-02	LANDSCAPING REPAIR	ALW	1

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No.	Revision	Drawn	Approved	Date
2	ADDENDUM 2	KC	MC	4/18/24
1	ADDENDUM 1	AS	MC	4/10/24

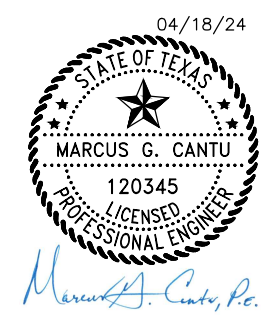
REVISIONS

2023 SEWER MAIN REPLACEMENT PROJECT 3
 SITE E - COMPKEY 969187,
 STA. 1+00 TO STA. 2+93.48,
 SANITARY SEWER REHABILITATION

DEVELOPER: SAN-ANTONIO-WATER-SYSTEM
 CONT. BUDGET PROJ.

SUBMITTED _____
 APPROVED _____

MAP No. 000-000 SHEET
 SECT. No. 18
 DR.KC,AS CK. MC JOB No. 23-4519 OF 46



File: G:\Projects\2020\2020-5 SAWS SSORP PK10 - GIC07-VI Utilites\SITE E1 COMPKEY 969187.dwg, Last Save: 4/18/2024 11:25 AM, Last saved by: Kcabler
 Last plotted by: Kcabler, Plot Style: ME_FULL.ctb, Plot Scale: 1:1, Plot Date: 4/18/2024 11:25 AM, Plotter used: DWG To PDF, pc3