



2022 CIPP Package  
Solicitation Number: CO-00618

**ADDENDUM 3**  
**March 02, 2023**

**To Bidder of Record:**

This addendum, applicable to work referenced above, is an amendment to the bidding documents 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 in the space provided in the submitted bid proposal.

**RESPONSES TO QUESTIONS**

- 1. Question:** CIPP standard specification section 901.4-3.e.6 requires a soil modulus of 500 psi be used in the CIPP thickness designs, but this soil modulus is overly conservative and will produce CIPP thicknesses that are thicker than needed, which will increase the difficulty of installation and overall project cost. On previous projects, this section has been replaced with language saying the Contractor was allowed to submit calculations signed and sealed by a Texas Professional Engineer utilizing other values for soil modulus so long as those values were part of the sealed calculations, the calculation method complied with ASTM F1216, and the soil modulus utilized did not exceed 1,000 psi. Please confirm that the Contractor will again be allowed to use values other than 500 psi for the soil modulus on this project.

*Response: Yes, a soil modulus different than 500 psi may be used if documented site-specific soil data (signed and sealed by a Professional Engineer in the State of Texas) is provided with liner thickness design calculations required in 901.3 Submittals, section 4.*

- 2. Question:** CIPP standard specification section 901.4-3.e.7 specifies that the groundwater to be used in the CIPP thickness designs shall be at the ground surface or the elevation of the 100-year floodplain, whichever is greater. On previous projects, this section has been modified so that the reference to floodwater being used as a design parameter has been deleted. Please confirm that the floodwater will again not need to be considered in the CIPP thickness designs, and that this section shall be modified to simply require the groundwater depth to be at the ground surface. If floodwater loading must be included as a design parameter, please provide the elevation of the floodwater level to be applied at each of the applicable manholes on the CIPP alignments.

*Response: 100-year floodplain need not be used in CIPP calculations for this project. CIPP calculations will need to consider groundwater at ground surface.*

**CHANGE TO SPECIFICATIONS**

- 1. Bid Proposal - Remove Bid Proposal and replace with the revised Bid Proposal attached to this Addendum. Updated Bid Proposal Estimated Quantity Table. This version of the bid proposal should be used by bidders when submitting a bid for this project. Failure to use the revised version of the bid proposal may result in the bid being found non-responsive.**

**CHANGES TO THE PLANS**

- 1. General Notes & Quantities (Sheet 02 of 55) to be removed and replaced with the sheet attached to this Addendum.**
  - a. The quantity table has been revised to incorporate the changes included on the Applewhite Site plans.**

2. Applewhite - CIPP Plan Sheets (Sheets 8, 9 and 10 of 55) to be removed and replaced with the sheets attached to this Addendum.
  - a. The top of the rim and flowline elevations for the sanitary sewer main manholes have been revised.
  - b. Matchline labels have been revised.
  - c. Item 910 – Manhole Rehabilitation quantity has been revised
  
3. Applewhite – Bypass Plan Sheet (Sheet 11 of 55) to be removed and replaced with the sheet attached to this Addendum.
  - a. Note #9 has been revised.

**CLARIFICATIONS**

1. Addendum 2 listed Susan Rodriguez's last name and email incorrectly.  
The correct email address is [Susan.rodriquez@saws.org](mailto:Susan.rodriquez@saws.org).

**END OF ADDENDUM**

This Addendum including these two (2) pages is ten (10) pages in its entirety with the attachments.

Attachments:

Bid Proposal (3 pages)

Plans Sheets 02, 08, 09, 10 and 11



March 02, 2023

A handwritten signature in blue ink that reads "Carl Bain". The signature is written in a cursive style and is positioned above a horizontal line.

Carl Bain PE  
Bain Medina Bain, Inc.

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 in the bid proposal to wit:

**PLEASE SEE ATTACHED LIST OF BID ITEMS.**

\_\_\_\_\_  
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 **180** 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.

**Statement on President's Executive Orders**

Has your firm previously performed work subject to the President's Executive Orders Numbers 11246 and 11375 or any preceding similar executive orders (Numbers 10925 and 11114)? Yes  No

- (1) Are you, Contractor, held or controlled by individuals who are citizens of China, Iran, North Korea, Russia or a country designated by the Governor of the State of Texas pursuant to Texas Government Code Chapter 2274?  
Yes  No
- (2) Are you, Contractor, held or controlled by a company or other entity, including a governmental entity, that is owned or controlled by citizens of or directly controlled by the government of China, Iran, North Korea, Russia or a country designated by the Governor of the State of Texas pursuant to Texas Government Code Chapter 2274?  
Yes  No
- (3) Are you, Contractor, headquartered in China, Iran, North Korea, Russia or a country designated by the Governor of the State of Texas pursuant to Texas Government Code Chapter 2274?  
Yes  No

BID PROPOSAL

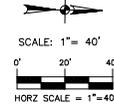
NO.	ITEM	DESCRIPTION	UNIT	QUANTITY	UNIT PRICE	EXTENSION
1	103.1	Remove Concrete Curb (COSA Spec)	LF	56	\$	\$
2	103.3	Remove Concrete Sidewalk & Driveways (COSA Spec)	SF	784	\$	\$
3	160	Topsoil (4") (TxDOT Spec)	SY	50	\$	\$
4	162	St. Augustine Sodding (TxDOT Spec)	SY	50	\$	\$
5	500	Concrete Curb and Gutter (COSA Spec)	LF	56	\$	\$
6	503.3	Portland Cement Concrete Driveway (CoSA Spec)	SY	87	\$	\$
7	516.1	Bermuda Sodding (CoSA Spec)	SY	10	\$	\$
8	530	Barricades, Signs, and Traffic Handling (CoSA Spec) (La Cantera)	LS	1	\$	\$
9	530	Barricades, Signs, And Traffic Handling (CoSA Spec) (Applewhite)	LS	1	\$	\$
10	530	Barricades, Signs, And Traffic Handling, (COSA Spec) (Site 18)	LS	1	\$	\$
11	530	Barricades, Signs, And Traffic Handling, (COSA Spec) (SH 16 Bandera Road)	LS	1	\$	\$
12	540.1	Rock Filter Dam (CoSA Spec)	LF	85	\$	\$
13	540.9	Temporary Sediment Control Fence (CoSA Spec)	LF	80	\$	\$
14	801	Tree Protection (COSA Spec)	LS	1	\$	\$
15	851	Existing Manhole Adjustment	EA	4	\$	\$
16	855	Reconstruction of Existing Manhole	EA	2	\$	\$
17	865	Bypass Pumping (Small Diameter Sanitary Sewer) (La Cantera)	LS	1	\$	\$
18	865	Bypass Pumping (Small Diameter Sanitary Sewer) (Applewhite)	LS	1	\$	\$
19	865	Bypass Pumping (Small Diameter Sanitary Sewer) (Site 18)	LS	1	\$	\$
20	865	Bypass Pumping (Small Diameter Sanitary Sewer) (SH 16 Bandera Road)	LS	1	\$	\$
21	866	Sanitary Sewer Main Television Inspection (8" through 15")	LF	430	\$	\$
22	866	Sanitary Sewer Main Television Inspection (18" through 24")	LF	1,557	\$	\$
23	901	Install CIPP 8" Sanitary Sewer Pipe (Hot Water) (All Depths)	LF	430	\$	\$
24	901	Sanitary Sewer Pre-Liner - 8"	LF	269	\$	\$
25	901	Install CIPP 21" Sanitary Sewer Pipe (Hot Water) (All Depths)	LF	1,557	\$	\$
26	910	Manhole Rehabilitation	VF	118	\$	\$
27	SS1103	Point Repair (21") (Internal)	EA	1	\$	\$
28	1103	Point repairs for 8" Diameter, (0'-10' depth) including up to 20 LF of piping	EA	2	\$	\$
29	1103	Extra length point repair, 8" Diameter, (0'-10' depth)	LF	30	\$	\$

2022 CIPP PACKAGE  
 SAWS Job No. 22-4524  
 Solicitation No. CO-00618

NO.	ITEM	DESCRIPTION	UNIT	QUANTITY	UNIT PRICE	EXTENSION
30	1103.1	Obstruction Removal By Remote Device, 18" and Larger Dia. (All Depths)	EA	1	\$	\$
31	1109	Service Reconnections (by Remote Control Cutting Device)	EA	5	\$	\$
32	1109	Service Reconnections (by Open Cut Excavation)	EA	1	\$	\$
33	6001	Portable Changeable Message Sign (TxDOT Spec)	EA	7	\$	\$
<b>Subtotal (Line Items 1 - 33)</b>						\$
34	100	Mobilization and Demobilization (Max. 10% of Line Items 1 - 33)	LS	1	\$	\$
35	101	Preparation of Right-of-Way (Max. 5% of Line Items 1 - 33)	LS	1	\$	\$
36	102.1	Intermediate Demobilization and Remobilization	EA	1	\$	\$
<b>Total Bid Price (Line Items 1-36)</b>						\$

Mobilization and Demobilization lump sum bid shall be limited to a maximum 10% of the 1-33 Sub-total Base Bid amount. Preparing Right-of-Way lump sum bid shall be limited to a maximum of 5% of the Line Items 1-33 Sub-total Base Bid amount. The Line Item 1-33 Sub-total base bid is defined as all bid items EXCLUDING Item 100, Mobilization and Demobilization Item 101, Preparing Right-of-Way. In the event of a discrepancy between the written percentage and dollar amount shown for Mobilization and Demobilization and Preparation of ROW bid items the written percentage will govern. If the percentage written exceeds the allowable maximum stated for mobilization , demobilization, or preparation of ROW, SAWS reserves the right to cap the amount at the percentages shown and adjust the extensions of the bid items accordingly.

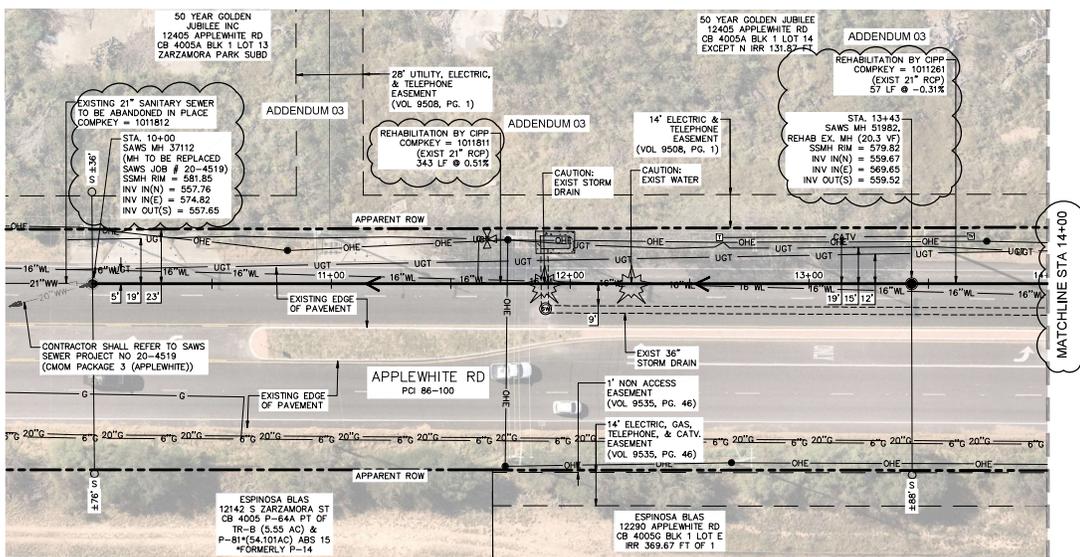




**DRAWING LEGEND**

- MANHOLE TO BE REHABILITATED
- POINT REPAIR
- EXISTING MANHOLE
- EXISTING STORM WATER MANHOLE
- SEWER LATERAL & CLEANOUT
- FLOW ARROW
- EXISTING UTILITY POLE CLEANOUT/ STUBOUT
- EXISTING SEWER
- WATER MAIN
- GAS MAIN
- OVERHEAD ELEC
- UNDERGROUND TELE
- OVERHEAD TELE
- EXISTING ROW
- EXISTING FENCE
- 100 YEAR FLOOD PLAIN
- EXISTING EASEMENT

2/28/2023



**TRENCH EXCAVATION SAFETY PROTECTION NOTE:**  
 CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR STRUCTURAL DESIGN/ GEOTECHNICAL / SAFETY / EQUIPMENT CONSULTANT, IF ANY SHALL REVIEW THESE PLANS AND ANY AVAILABLE GEOTECHNICAL INFORMATION AND THE ANTICIPATED INSTALLATION SITES WITHIN THE PROJECT WORK AREA IN ORDER TO IMPLEMENT CONTRACTOR'S TRENCH EXCAVATION SAFETY PROTECTION SYSTEMS, PROGRAMS AND/OR PROCEDURES FOR THE PROJECT DESCRIBED IN THE CONTRACT DOCUMENTS. THE CONTRACTOR'S IMPLEMENTATION OF THESE SYSTEMS, PROGRAMS AND/OR PROCEDURES SHALL PROVIDE FOR ADEQUATE TRENCH EXCAVATION SAFETY PROTECTION THAT COMPLIES WITH, AT 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.

**GAS SERVICE NOTE:**  
 CONTRACTOR TO LOCATE AND EXPOSE ALL GAS SERVICE LINES THAT CROSS THE EXISTING SAWS SEWER MAIN TO BE REHABILITATED VIA CIPP PRIOR TO AND DURING POINT REPAIRS PROCESS TO AVOID DAMAGE TO THE GAS SERVICE. ALL ITEMS ASSOCIATED WITH EXPOSING THE SERVICE LINE SHALL BE NSPI.

**CAUTION!!!**  
 CONTRACTOR TO EXERCISE EXTREME CAUTION WHEN WORKING UNDER AND / OR AROUND OVERHEAD ELECTRIC LINES. CONTRACTOR SHALL COORDINATE WITH CPS ENERGY TO ESTABLISH THE MAXIMUM WORKING HEIGHT FROM GROUND ELEVATION. COORDINATE ALL WORK WITH CPS ENERGY.

**SEWER LATERAL NOTE:**  
 SEWER LATERAL PLACEMENTS WERE BASED ON PRE-TELEVISION INSPECTION AND SAWS BLOCK MAPS. THE CONTRACTOR IS RESPONSIBLE FOR THE VERIFICATION OF THE SEWER LATERAL LOCATIONS AND EXISTING UTILITIES, BEFORE CONSTRUCTION BEGINS.

**STORM DRAIN CROSSING NOTE:**  
 CONTRACTOR TO LOCATE AND EXPOSE ALL STORM DRAIN LINES THAT CROSS THE EXISTING SAWS SEWER MAIN TO BE REHABILITATED VIA CIPP PRIOR TO AND DURING THE POINT REPAIRS TO AVOID DAMAGE TO THE STORM DRAIN. ALL ITEMS ASSOCIATED WITH EXPOSING THE MAIN SHALL BE NSPI.

**NOTE:**  
 THE EXISTING UNDERGROUND UTILITIES SHOWN ON THESE PLANS ARE BASED UPON RECORD INFORMATION ONLY AND ARE APPROXIMATE. THE EXACT LOCATION OF ALL EXISTING UNDERGROUND UTILITIES SHALL BE FIELD VERIFIED BY THE CONTRACTOR. THE CONTRACTOR SHALL ALSO CONTACT THE UTILITY PURVEYORS BEFORE BEGINNING 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 EXISTING CONDITIONS.

ITEM	DESCRIPTION	UNIT	QTY
530.1	Barricades, Signs, And Traffic Handling (CoSA Spec) (Applewhite)	LS	1
865	Bypass Pumping (Small Diameter Sanitary Sewer) (Applewhite)	LS	1
900	Sanitary Sewer Main Television Inspection (18" through 24")	LF	400
910	Manhole Rehabilitation	VF	20.3

**MEHDEZ ENGINEERING**  
 Registration # PA-48270  
 12850 Country Parkway, Suite 120  
 San Antonio, Texas 78216  
 Office: 210-682-0688  
 www.MehdezEngineering.com

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**PAPE-DAWSON ENGINEERS**  
 REG. PROFESSIONAL ENGINEERS - LICENSE # 0001400014 / 000000  
 3800 HWY. 491 S. 4340 WESTVIEW, FR. 20110 / 210-323-8882  
 1995 FIRM REGISTERED IN TEXAS - 1995 FIRM REGISTERED IN CALIFORNIA

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NO.	REVISION	DRAWN	APPROVED	DATE

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2022 CIPP PACKAGE  
 (APPLEWHITE)  
 CIPP PLAN SHEET -  
 COMPKY 1011811 & 1011261

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DEVELOPER:	BUDGET PROJ.
CONT.	SUBMITTED
APPROVED	
MAP NO. 144-532	SHEET 8 OF 59
SECT. NO.	SAWS NO. 22-4524
DR. SVM, LG	CK. JC

THIS DOCUMENT HAS BEEN PROVIDED FROM MATERIAL THAT WE BELIEVE MAY BE REPRODUCED ELECTRONICALLY AND WE HAVE BEEN INDICATIVELY ALTERED. RELY ONLY ON FULL PHYSICAL DRAWINGS BEARING THE CONSULTANT'S ORIGINAL SIGNATURE AND SEAL. (DATE SPEC 2017)





**DRAWING LEGEND**

- MANHOLE TO BE REHABILITATED
- EXISTING STORM WATER MANHOLE
- SEWER LATERAL & CLEANOUT
- FLOW ARROW
- EXISTING UTILITY POLE CLEANOUT/ STUBOUT
- EXISTING SEWER
- 8" WW
- 16" WW
- GAS MAIN
- 6" G
- OVERHEAD ELEC
- ONE
- UNDERGROUND TELE
- UGT
- OVERHEAD TELE
- OHT
- EXISTING ROW
- 100 YEAR FLOOD PLAIN
- EXISTING EASEMENT

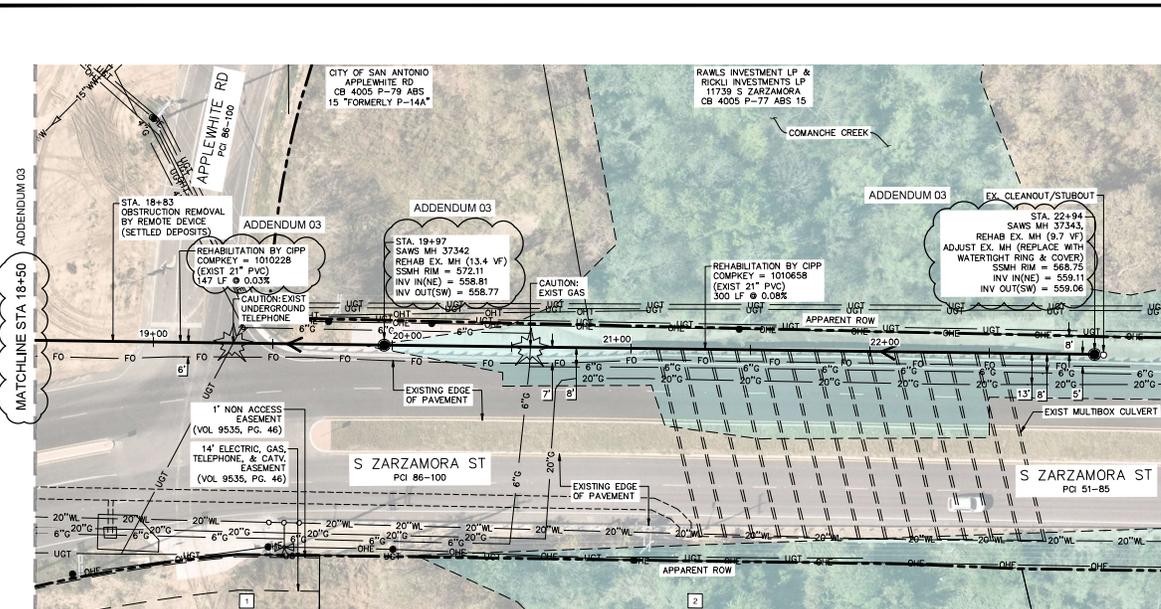
2/28/2023



NO.	REVISION	DRAWN	APPROVED	DATE

DEVELOPER: <b>2022 CIPP PACKAGE (APPLEWHITE)</b> <b>CIPP PLAN SHEET - COMPKY 1010228 &amp; 1010658</b>	
SUBMITTED: _____ APPROVED: _____	MAP NO. 144-532 SECT. NO. _____ DR. SVM, LG. CK. JC.
BUDGET PROJ. _____	SAWS NO. 22-4524



**TRENCH EXCAVATION SAFETY PROTECTION NOTE:**  
 CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR STRUCTURAL DESIGN/ GEOTECHNICAL / SAFETY / EQUIPMENT CONSULTANT, IF ANY SHALL REVIEW THESE PLANS AND ANY AVAILABLE GEOTECHNICAL INFORMATION AND THE ANTICIPATED INSTALLATION SITES WITHIN THE PROJECT WORK AREA IN ORDER TO IMPLEMENT CONTRACTOR'S TRENCH EXCAVATION SAFETY PROTECTION SYSTEMS, PROGRAMS AN/OR PROCEDURES FOR THE PROJECT DESCRIBED IN THE CONTRACT DOCUMENTS. THE CONTRACTOR'S IMPLEMENTATION OF THESE SYSTEMS, PROGRAMS AND/OR PROCEDURES SHALL PROVIDE FOR ADEQUATE TRENCH EXCAVATION SAFETY PROTECTION THAT COMPLIES WITH AT 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.

**GAS SERVICE NOTE:**  
 CONTRACTOR TO LOCATE AND EXPOSE ALL GAS SERVICE LINES THAT CROSS THE EXISTING SAWS SEWER MAIN TO BE REHABILITATED VIA CIPP PRIOR TO AND DURING POINT REPAIRS PROCESS TO AVOID DAMAGE TO THE GAS SERVICE. ALL ITEMS ASSOCIATED WITH EXPOSING THE SERVICE LINE SHALL BE NSPI.

**CAUTION!!!**  
 CONTRACTOR TO EXERCISE EXTREME CAUTION WHEN WORKING UNDER AND / OR AROUND OVERHEAD ELECTRIC LINES. CONTRACTOR SHALL COORDINATE WITH CPS ENERGY TO ESTABLISH THE MAXIMUM WORKING HEIGHT FROM GROUND ELEVATION. COORDINATE ALL WORK WITH CPS ENERGY.

**FLOODPLAIN NOTE:**  
 CONSTRUCTION WILL BE LOCATED ENTIRELY OR PARTIALLY WITHIN THE 100-YEAR FLOODPLAIN. CONTRACTOR SHALL CONFORM TO SAWS SPECIFICATIONS REGARDING CONSTRUCTION AND STAGING WITHIN THE 100-YEAR FLOODPLAIN.

**NOTE:**  
 THE EXISTING UNDERGROUND UTILITIES SHOWN ON THESE PLANS ARE BASED UPON RECORD INFORMATION ONLY AND ARE APPROXIMATE. THE EXACT LOCATION OF ALL EXISTING UNDERGROUND UTILITIES SHALL BE FIELD VERIFIED BY THE CONTRACTOR. THE CONTRACTOR SHALL ALSO CONTACT THE UTILITY PURCHASERS BEFORE BEGINNING 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 EXISTING CONDITIONS.

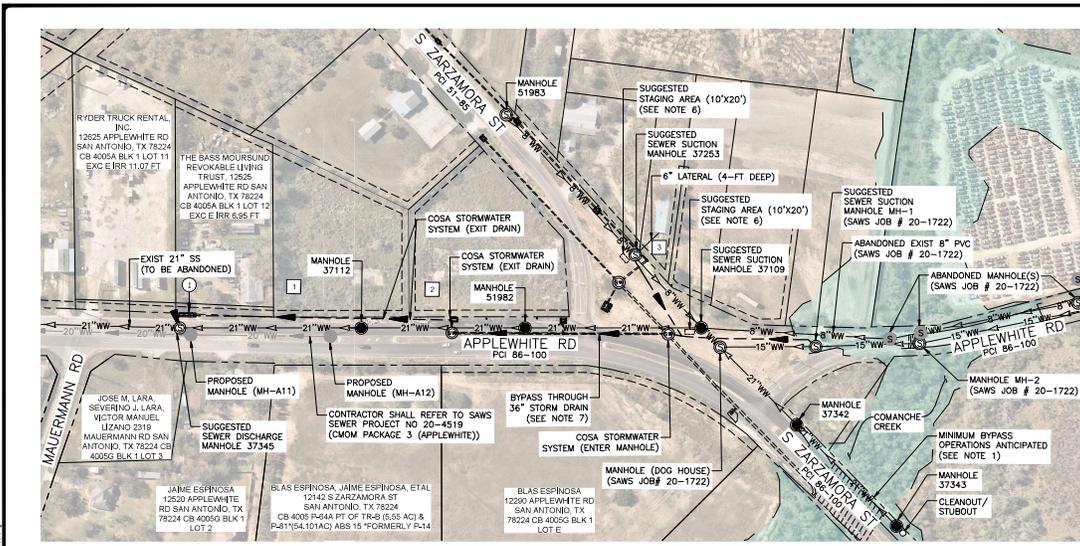
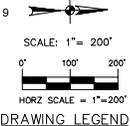
- PROPERTY NOTE:**
- ESPINOSA BLAS  
12290 APPLEWHITE RD  
CB 4005G BLK LOT E IRR 369.67 FT OF 1
  - ESPINOSA BLAS  
12142 S ZARZAMORA ST  
CB 4005 P-44A PT OF TR-B (3.55 AC) & P-81(54.10AC) ABS 15 FORMERLY P-14

ADDENDUM 03

ITEM	DESCRIPTION	UNIT	QTY
B51	Existing Manhole Adjustment	EA	1
B66	Sanitary Sewer Main Television Inspection (18" through 24")	LF	644
B99	Sanitary Sewer Main Television Inspection (18" through 24")	LF	644
D10	Manhole Rehabilitation	VF	23.1
M05.1	Construction of New Base Course (18" Thick) Over Pavement	EA	1
0001	Portable Changeable Message Sign (TxDOT Spec)	EA	1

Date: 02/28/2023, 09:10:10 AM  
 User: jgarcia  
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 Plot Scale: 1.0000  
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 Plot Date: 2/28/2023, 9:10:10 AM  
 Plot User: jgarcia

02/28/2023 ADDENDUM 03 - UPDATED NOTE 9



2/28/2023

**NOTES:**

1. THE CONTRACTOR SHALL COORDINATE WITH PROPERTY OWNER(S) TO MINIMIZE WATER USAGE DURING THE HOURS OF OPERATION FOR SEWER REHABILITATION. IN THE EVENT OF MINIMIZING WATER USAGE IS NOT FEASIBLE, CONTRACTOR SHALL PUMP AND HULL AS NEEDED TO ELIMINATE ANY IMPACTS TO RESIDENTS.
2. THIS BYPASS LAYOUT PLAN IS PROVIDED ONLY AS REFERENCE TO THE CONTRACTOR TO AID IN BIDDING AND PROJECT PLANNING. THE BYPASS LAYOUT PLAN DOES NOT RELIEVE THE CONTRACTOR OF HIS DUTY TO SUBMIT A BYPASS PUMPING PLAN, LINER INSERTION AND STAGING AREA MAP, AND ALL OTHER SUBMITTAL REQUIREMENTS OUTLINED IN THE SAWS STANDARD SPECIFICATION ITEM 865.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR RESTORING EXISTING CURBS, STREETS, DRIVEWAYS, AND STORM MANHOLE STRUCTURES TO ITS ORIGINAL OR BETTER CONDITION AS A RESULT OF DAMAGES DONE BY THE PROJECT'S CONSTRUCTION. (NSPI).
4. THE CONTRACTOR SHALL MAINTAIN VEHICULAR ACCESS THROUGH ALL DRIVEWAYS AND ROADWAYS.
5. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING SEWER SERVICE TO EXISTING SEWER MAINS AND SERVICES AT ALL TIMES.
6. STAGING AREAS ARE SUGGESTED AND IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE THE APPROPRIATE LOCATION. STAGING AREAS SHALL BE LOCATED IN AREAS THAT DO NOT ELIMINATE DRIVEWAY ACCESS FOR RESIDENTIAL OR COMMERCIAL PROPERTIES.
7. CONTRACTOR SHOULD BE RESPONSIBLE FOR SECURING THE BYPASS PUMPING LINES USING A METHOD OR METHODS THAT DISCOURAGE MOVEMENT, FLOTATION, OR RUPTURING OF THE LINES IF FLOWS ARE ENCOUNTERED IN THE EXISTING STORM SEWER SYSTEM.
8. CONTRACTOR SHALL BE RESPONSIBLE TO MONITOR THE WEATHER TO ENSURE FLOWS DO NOT EXCEED THE EXIST STORM INFRASTRUCTURE. IN THE EVENT OF A STORM EVENT, THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR ANY COSTS, WORK AND RENTOR THAT MAY OCCUR DUE TO BYPASS OPERATIONS DURING CONSTRUCTION ACTIVITIES.
9. CONTRACTOR TO REFER TO TRAFFIC CONTROL SHEETS FOR ADDITIONAL INFORMATION. THERE SHALL BE ADVANCE SCHEDULE COORDINATION BETWEEN CONTRACTORS TO ENSURE THERE IS NOT ANY CONSTRUCTION ACTIVITIES OCCURRING CONCURRENTLY FOR SAWS PROJECT NO. 20-4519 CDM PACKAGE 3 (APPLEWHITE) AND THIS PROJECT.

**BYPASS ROADWAY/DRIVEWAY RAMP NOTE:**

PORTIONS OF BYPASSING PIPING WILL REQUIRE ROAD RAMP OR NEED TO BE BURIED IN ORDER TO MAINTAIN TRAFFIC THROUGH INTERSECTIONS AND ACCESS TO DRIVEWAYS. CONTRACTOR SHALL INDICATE LOCATION OF ROAD RAMP AND DURATION OF PLACEMENT AS PART OF BYPASS PUMPING AND PHASING PLAN SUBMITTAL.

**COSA STORMWATER NOTES:**

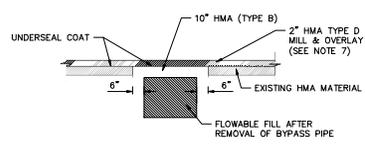
1. THE CONTRACTOR SHALL HAVE FULL TIME ON-SITE QUALIFIED PUMP PERSONNEL INCLUDING SUPERVISION FOR MONITORING THE ENTIRE BYPASS INSTALLATION AND OPERATION WHILE UTILIZING COSA STORM DRAIN INFRASTRUCTURE.
2. CONTRACTOR SHALL PROTECT ALL COMPONENTS OF THE STORM SEWER MANHOLE AND/OR PIPE FROM PEDESTRIANS FOR THE DURATION OF THE BYPASS OPERATION BY MAKING THE SITE SECURE.

**PROPERTY NOTE:**

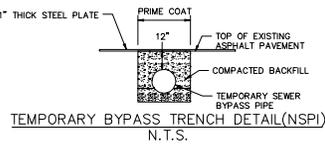
1. 50 YEAR GOLD JUBILEE, INC. 12405 APPLEWHITE RD SAN ANTONIO, TX 78224 CB 4005A BLK 1 LOT 13 ZARZAMORA PARK SUBD
  2. 50 YEAR GOLD JUBILEE, INC. 12405 APPLEWHITE RD SAN ANTONIO, TX 78224 CB 4005A BLK 1 LOT 14 EXCEPT N IRR 131.87 FT
  3. 12119 APPLEWHITE RD SAN ANTONIO, TX 78224 CB 4005G BLK 12 LOT 1
- ① BYPASS PIPE TO BE BURIED UNDER THE CONCRETE DRIVEWAY. CONTRACTOR SHALL REFER TO TEMPORARY BYPASS TRENCH DETAIL(NSPI). CONTRACTOR SHALL REPLACE DRIVEWAY TO ROW AND REFERENCE COSA CONCRETE DRIVEWAY STANDARDS FOR ADDITIONAL INFORMATION. REMOVE EST @ 342 SF (EACH DRIVEWAY). REPLACE CONCRETE EST @ 38 SF (EACH DRIVEWAY).

**FLOW DATA:**

CONTRACTOR TO DEVELOP AND SUBMIT A BYPASS PUMPING PLAN. THE ESTIMATED FLOW BETWEEN MH 37343 AND MH 37342 IS APPROXIMATELY 2139 GPM. THE ESTIMATED FLOW BETWEEN MH 37342 AND MH 37109 IS APPROXIMATELY 4394 GPM. THE ESTIMATED FLOW BETWEEN MH 37109 AND MH 51982 IS APPROXIMATELY 2364 GPM. THE ESTIMATED FLOW BETWEEN MH 51982 AND MH 37112 IS APPROXIMATELY 2364 GPM.



**PERMANENT TRENCH REPAIR DETAIL (NSPI)**  
N.T.S.



**TEMPORARY BYPASS TRENCH DETAIL(NSPI)**  
N.T.S.

ITEM	DESCRIPTION	UNIT	QTY
103.3	Remove Concrete Sidewalk & Driveways (COSA Spec)	SF	342
503.3	Portland Cement Concrete Driveway (COSA Spec)	SY	38

**MENDEZ ENGINEERING**  
Registration # F40470  
12950 Country Parkway, Suite 120  
San Antonio, Texas 78216  
Office: 210-625-0808  
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**PAPE-DAWSON ENGINEERS**

NO.	REVISION	DRAWN	APPROVED	DATE

2022 CIPP PACKAGE  
**(APPLEWHITE)**  
BYPASS PLAN

DEVELOPER: \_\_\_\_\_

CONTRACTOR: \_\_\_\_\_ BUDGET PROJ. \_\_\_\_\_

SUBMITTED: \_\_\_\_\_

APPROVED: \_\_\_\_\_

MAP NO. 144-532

SECT. NO. \_\_\_\_\_

DR. SVM, LG CK. JC

SAWS NO. 22-4524

SHEET 11 OF 55

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