



**SAN ANTONIO WATER SYSTEM
C_13 BROADWAY CORRIDOR PROJECT
SEWER REHABILITATION
PACKAGE B
SAWS JOB NO. 16-4508
SOLICITATION NO. CO-00103**

ADDENDUM NO. 4
June 7, 2017

TO RESPONDENT 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.

This addendum consists of 4 pages and 25 pages of attachments.

GENERAL

1. Cost Estimate: \$17,946,784.59

BIDDING AND CONTRACT DOCUMENTS

1. BID PROPOSAL: DELETE previous document in its entirety and REPLACE with the revised version attached to this Addendum. This version should be used by Bidders when submitting a bid. Changes include, the following:
 - a. Added Bid Item 307.5 Concrete Structures (storm drain)
 - b. Added Bid Item 818 6" PVC
 - c. Added Bid Item SP 848 15" PVC Sewer Line
 - d. Added Bid Item 862 15" Sewer Abandon in Place
 - e. Added Bid Item 1109 Lateral Reconnection for Rehabilitated Pipe
2. SPECIAL PROVISION TO SAWS ITEM NO. 848: DELETE "Hydrostatic" from Article 4 on page SP 848-2.
3. SPECIAL PROVISION TO SAWS ITEM NO. 901: INSERT attached document.

4. SUPPLEMENTAL CONDITIONS:

- a. DELETE Section "**Article VIII - Contract Completion Time**" in its entirety and REPLACE with the following:

"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:

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

Liquidated Damages, for the purpose of this contract, will be assessed at \$3,300.00 per day for each day that the Contractor fails to complete the Contract by the time specified in the Contract Documents. (Additional costs may be incurred; refer to Special Condition C. Liability for Stipulated Penalties.)"

- b. Under **Article IV - Contract Administration, CONTRACTORS**, DELETE "40%" in the first sentence and REPLACE with "30%".

5. SPECIAL CONDITIONS:

G. Coordination with Others: DELETE last 2 paragraphs in their entirety and REPLACE with the following:

"Contractor is hereby notified that these events are not necessarily one (1) day events. Some of these events require multiple day set up and take down by the event organizers. Some of these events will require that no Construction Operations and Activities be enacted in the vicinity of the event and the Contractor shall consider and include the event period and the set up and take down activities as Contractor plans and executes Work.

The Contractor shall be responsible for all coordination for the project. No separate pay item (NSPI) and no additional Contract Days will be afforded Contractor for days which are impacted by events."

TECHNICAL SPECIFICATIONS

1. In Section 03 01 30 CONCRETE REPAIR, Page 03 01 30 - 3, Paragraph 2.02.A: DELETE "03300" and REPLACE with "03 30 00".

2. In Section 03 10 00 CONCRETE FORMWORK, make the following revisions:
 - a. Page 03 10 00 - 1, Paragraph 1.04.A: DELETE "and Division 1"
 - b. Page 03 10 00 - 8, Paragraph 3.05.E: DELETE "03300" AND REPLACE with "03 30 00".
3. In Section 03 15 00 CONCRETE JOINTS AND EMBEDDED ITEMS, make the following revisions:
 - a. Page 03 15 00 - 4, Paragraph 2.05.A: DELETE "03200" and REPLACE with "03 20 00".
 - b. Page 03 15 00 - 5, Paragraph 2.08.A: DELETE this paragraph in its entirety.
 - c. Page 03 15 00 - 6, Paragraph 2.09.A: DELETE this paragraph in its entirety.
4. In Section 03 20 00 CONCRETE REINFORCEMENT, make the following revisions:
 - a. Page 03 20 00 - 2, Paragraph 1.04.A: DELETE the words "and Division 1, General Requirements".
5. In Section 03 30 00 CAST-IN-PLACE CONCRETE, Page 03 30 00 - 17, Paragraph 3.09.A: DELETE "03100" and REPLACE with "03 10 00".
6. In Section 03 34 10 POLYMER CONCRETE, Page 03 34 10 - 1, Paragraph 1.03.A: DELETE "xx" and REPLACE with "30".
7. In Section 03 40 00 PRECAST AND PRESTRESSED CONCRETE, Page 03 40 00 - 2, Paragraph 1.04.A: DELETE the words "and Division 1".
8. In Section 03 60 00 GROUT, Page 03 60 00 - 5, Paragraph 2.01.E.1: DELETE "03300" and REPLACE with "03 30 00".
9. In Section 31 22 00 STRUCTURAL EXCAVATION, FILL AND BACKFILL: DELETE Paragraph 3.05.A in its entirety and replace with the following:

"A. Trench backfill shall be constructed as shown on the drawings and described in SAWS Item No 804-Excavation, Trenching and Backfill."
10. In Section 33 05 01.08 FIBERGLASS REINFORCED PIPE AND FITTINGS: Article 3.06 FIELD TESTS, Paragraph E, INSERT "Only pipes installed by open cut require television inspection" after "Sewer Main Television Inspection:".

DRAWINGS

1. DWG B-G-03: In LEGEND (PROPOSED ITEMS) DELETE "See DD-853-01" from Note 2.

2. DWG B-PT-06: REPLACE this drawing in its entirety with the attached sheet.
3. DWG B-PT-08: REPLACE this drawing in its entirety with the attached sheet.
4. DWG B-C-02: DELETE "or DD-853-01" from Note 5 and REPLACE with "or SAWS Item 853".
5. DWG B-C-11: DELETE "or DD-853-01" from Note 5 and REPLACE with "or SAWS Item 853".
6. DWG B-C-18: DELETE "or DD-853-01" from Note 5 and REPLACE with "or SAWS Item 853".

REFERENCE MATERIAL

1. The following documents are provided for informational purposes only.
 - a. Photographs of C-13, Package A Siphon Outlet Structure Interior
 - b. Record Drawings C-13, Package A Siphon Inlet and Outlet Structure Design

CH2M HILL

TBPE Firm No. 3699



Jonathan Vorheis, P.E.

Appended hereto and part of Addendum No. 4 are:

1. Bid Form (4 pages)
2. SP 901 (1 Page)
3. Package A Siphon Inlet and Outlet Record Drawings and Photographs (4 Pages)
4. DWG B-PT-05 (1 Page)
5. DWG B-PT-08 (1 Page)
6. Contractor Questions and Responses (14 Pages)

BID PROPOSAL

PROPOSAL OF _____, a corporation

a partnership consisting of

an individual doing business as

THE SAN ANTONIO WATER SYSTEM:

Pursuant to Instructions and Invitation to Bidders, the undersigned proposes to furnish all labor and materials as specified and perform the work required for the project as specified, in accordance with the Plans and Specifications for the following prices to wit:

(PLEASE SEE ATTACHED PDF LIST OF BID ITEMS)

TOTAL BID PRICE

\$ _____

Mobilization and Prep of ROW shall be limited to the maximum percentage shown. **If the percentage exceeds the allowable maximum stated for mobilization and 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.**

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 **450** 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		C_13 - Broadway Corridor Project - Package B							
CO-00103		Line No.	Item No.	SOV Item	Item Description	Unit	Quantity	Unit Bid Price	Total Price
		1	101		Tree Protection to Include Placement and Removal	LS	1		
		2	CoSA 103.1		Remove Concrete Curb	LF	105		
		3	CoSA 103.3		Remove Concrete Sidewalks and Driveways	SF	1,962		
		4	CoSA 202.1		Prime Coat Application	GAL	5,199		
		5	CoSA 203.1		Tack Coat Application	GAL	2,600		
		6	CoSA 205.2		Sanitary Sewer: Cut and Replace with Flexible Base and Hot Mix Asphaltic Concrete Pavement (Trench Repair) – Type "B"	SY	6,886		
		7	CoSA 205.2		Waterline: Cut and Replace with Flexible Base and Hot Mix Asphaltic Concrete Pavement (Trench Repair) – Type "B"	SY	2,276		
		8	CoSA 205.4		3" Pavement Type D	SY	25,995		
		9	CoSA 208.1		Salvaging, Hauling and Stockpiling Reclaimable Asphaltic Pavement	SY	25,995		
		10	CoSA 230.1		Full Depth Pavement Restoration	SY	568		
		11	CoSA 307.5		Concrete Structure (storm drain)	EA	5		
		12	CoSA 401.1A		Reinforced Concrete Pipe - per linear foot less than 24" in diameter	LF	603		
		13	CoSA 401.1B		Reinforced Concrete Pipe - per linear foot equal to or greater than 24" in diameter	LF	320		
		14	CoSA 500.1		Concrete Curb	LF	105		
		15	CoSA 500.4		Concrete Curb and Gutter	LF	624		
		16	CoSA 500.1		Concrete Sidewalks	SY	125		
		17	CoSA 500.1		Concrete Driveway	SY	148		
		18	CoSA 530.1		Traffic Control, Barricades, Signs and Traffic Handling	LS	1		
		19	CoSA 530.2		Portable Changeable Message Sign	MD	60		
		20	CoSA 535.1		4" Yellow Line	LF	11,380		
		21	CoSA 535.2		4" White Line	LF	255		
		22	CoSA 535.5		12" White Line	LF	365		
		23	CoSA 535.7		24" White Line	LF	685		
		24	CoSA 535.8		Right White Arrow	EA	1		
		25	CoSA 535.12		Word "ONLY"	EA	1		
		26	CoSA 535.13		Straight White Arrow	EA	1		
		27	CoSA 535.18		Solid White Yield	EA	3		
		28	CoSA 535.19		Word "STOP"	EA	1		
		29	CoSA 540.11		SW3P Plan and Execution	LS	1		
		30	CoSA 540.8		Sandbags for Erosion Control	FT	220		
		31	CoSA 540.1		Curb Inlet Gravel Fill	EA	22		
		32	CoSA 550.1		Trench Excavation Safety Protection	LF	7,061		
		33	812		Additional Casing Pipe for TCEQ Separation Requirements	LF	120		
		34	818		6" PVC Water Line, All Restrained	LF	17		
		35	818		8" PVC Water Line, All Restrained	LF	2,095		
		36	824		Reconnect 1/2" Unknown, Short	EA	1		
		37	824		Reconnect 3/4" Unknown, Short	EA	1		
		38	824		Reconnect 3/4" Copper, Short	EA	11		
		39	824		Reconnect 1" Copper, Short	EA	4		
		40	824		Reconnect 2" Copper, Short	EA	5		
		41	824		Reconnect 1" PVC, Short	EA	1		
		42	824		Reconnect 3/4" GI, Short	EA	1		
		43	824		Reconnect 6" DI, Short	EA	1		
		44	824		Reconnect 1/2" Unkown, Long	EA	2		
		45	824		Reconnect 3/4" Copper, Long	EA	1		
		46	824		Reconnect 1" Copper, Long	EA	1		
		47	828		6" Gate Valve Complete with Box	EA	3		
		48	828		8" Gate Valve Complete with Box	EA	6		
		49	834.1		New Fire Hydrant with Valve and Box	EA	1		
		50	836		Grey-Iron and Ductile-Iron Fittings	TON	3		
		51	840		8" Water Tie-in	EA	15		
		52	840		10" Water Tie-in	EA	2		
		53	841		Hydrostatic Testing 8" Water Line	EA	6		

Solicitation		C_13 - Broadway Corridor Project - Package B							
CO-00103		Line No.	Item No.	SOV Item	Item Description	Unit	Quantity	Unit Bid Price	Total Price
		54	844		Blow-off Assemblies	EA	6		
		55	844		4" Blow-off, Temporary	EA	1		
		56	SP 848		10" PVC Sewer Line	LF	789		
		57	SP 848		15" PVC Sewer Line	LF	76		
		58	SP 850		Elm Street Terminus Structure (MH-B-1)	EA	1		
		59	SP 850		Josephine Equalization Structure (MH B-OF-06) with Stop Logs	EA	1		
		60	SP 850		Casa Blanca Flow Splitting Structure with Stop Logs (MH B-OF-01) (Precast Polymer)	EA	1		
		61	SP 850		Existing Manhole MH-101 Connection - Modifications - Add SST Stop Log Gate and New Cover	EA	1		
		62	SP 850		Sanitary Sewer Structure (Larger than 24" Manholes)	EA	2		
		63	SP 850		Replace Existing / Install New Manholes > 6 VF	EA	3		
		64	852		Sanitary Sewer Manholes > 6 VF	EA	8		
		65	SP 853		60" Tee-Base Manholes	EA	4		
		66	SP 853		Special 42" Tee-Base Branch Drop Manhole B-OF-04	EA	1		
		67	SP 853		42" Tee-Base Manholes	EA	8		
		68	SP 853		36" Tee-Base Manholes	EA	13		
		69	855		Manhole Adjustment	EA	15		
		70	SP 856		Jacking and Boring FRP without Casing for 36"	LF	265		
		71	SP 856		Jacking and Boring FRP without Casing for 42"	LF	1,240		
		72	SP 856		Tunneling with 52" Steel Casing Pipe (not including carrier pipe)	LF	286		
		73	SP 856		Tunneling with 60" Steel Casing Pipe (not including carrier pipe)	LF	120		
		74	858		Additional Sand-Cement Fill for TCEQ Separation Requirements	CY	100		
		75	862		Manhole Demolition	EA	5		
		76	862		Sanitary Sewer Manholes to be Abandoned and Grouted	EA	2		
		77	862		60" Sewer Abandon in Place with CLSM	LF	50		
		78	862		10" Sewer Abandon in Place	LF	174		
		79	862		15" Sewer Abandon in Place	LF	70		
		80	862		18" Sewer Abandon in Place	LF	55		
		81	862		24" Sewer Abandon in Place	LF	55		
		82	862		8" Sewer Remove	LF	141		
		83	862		10" Sewer Remove	LF	689		
		84	862		18" Sewer Remove for Broadway Tunnel	LF	5		
		85	862		24" Sewer Remove for Broadway Tunnel	LF	5		
		86	862		60" Sewer Remove	LF	75		
		87	864-S1		Bypass Pumping (Less than 24" diameter)	LS	1		
		88	864-S2		Bypass Pumping (24" and greater diameter)	LS	1		
		89	SP 866		CCTV of Josephine 60" RCP with no Flow (Bypass Pumping Required)	LF	300		
		90	SP 866		18" Sanitary Sewer Cleaning and Televising Before Rehabilitation	LF	295		
		91	SP 866		24" Sanitary Sewer Cleaning and Televising Before Rehabilitation	LF	294		
		92	SP 866		60" Sanitary Sewer Cleaning and Televising Before Rehabilitation	LF	6,910		
		93	901.1		18" CIPP Sewer Main Rehabilitation (Steam/Water-cured) Including Post-CCTV	LF	295		
		94	901.1		24" CIPP Sewer Main Rehabilitation (Steam/Water-cured) Including Post-CCTV	LF	294		
		95	901.1		60" CIPP Sewer Main Rehabilitation (Steam/Water-cured) Including Post-CCTV	LF	6,910		
		96	910.1		Manhole Rehabilitation	VF	317		
		97	910.2		Structure Rehabilitation	SF	647		
		98	1103		Point Repair for 60" Pipe, All Depths	EA	1		
		99	1103		Point Repair for 18" Pipe, All depths	EA	1		
		100	1103		Point Repair for 24" Pipe, All Depths	EA	1		
		101	1109		Lateral Reconnection for Open Cut Sewer Installation	EA	33		
		102	1109		Lateral Reconnection for Rehabilitated Pipe	EA	11		
		103	3000.9		8" AC Waterline Removal	LF	20		
		104	330501.08		Remove 60" RCP and Replace with 60" FRP (if Owner Authorizes)	LF	73		
		105	330501.08		24" FRP (open cut) including Post-CCTV and including 24" x 30" transition at Sta. 13+60 to 13+75 on B-C-18	LF	363		
		106	330501.08		36" FRP (open cut) including Post-CCTV	LF	3,762		

Solicitation		C_13 - Broadway Corridor Project - Package B							
CO-00103		Line No.	Item No.	SOV Item	Item Description	Unit	Quantity	Unit Bid Price	Total Price
		107	330501.08		42" FRP (open cut) including Post-CCTV	LF	1,498		
		108	330501.08		60" FRP (open cut) including Post-CCTV	LF	84		
		109	330501.08		36" FRP installed in 52" Casing Pipe (no Post-CCTV required)	LF	286		
		110	330501.08		42" FRP installed in 60" Casing Pipe (no Post-CCTV required)	LF	120		
		111	330501.04		Expose Existing 36" CSC Recycled Water Line Joint and Confirm if Restrained	EA	3		
		112	330501.04		Field Weld Existing 36" CSC Recycled Water Line Joint (if Owner Authorizes)	EA	3		
		113	SP 100		Mobilization/Demobilization (Maximum 10% of Items 4-107)	LS	1		
		114	SP 100		Intermediate Demob/Remob	EA	5		
		115	864		Daily Bypass Rental Equipment (Intermediate Demob/Remob)	MD	20		
		116	864		Daily Fuel (Intermediate Demob/Remob)	MD	20		
		117	864		Daily Manning of the Bypass Pumps (Intermediate Demob/Remob)	MD	20		
		118	101		Preparation of Right-of-Way (Maximum 5% of Items 4-107)	LS	1		
		119	1201		Allowance: Electric MH and Ducts to be Relocated by Others	LS	1	\$ 250,000.00	\$ 250,000.00
		120	1202		Allowance: 2" Gas Line to be Relocated by Others	LS	1	\$ 25,000.00	\$ 25,000.00

**SPECIAL PROVISIONS TO SAWS SPECIFICATION
FOR WATER AND SANITARY SEWER CONSTRUCTION**

San Antonio Water System Technical Specifications

Special Provisions to Item No. 901

Rehabilitation of Sanitary Sewer by Cured-In-Place Pipe (Hot Water or Steam Cured)

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

1. ADD the following to Section 901.4.3.e.6:

“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.”

End of Special Provision

Package A Siphon Outlet Structure Photographs

Figure 1. Downstream Siphon Structure outlet pipes (60-inch and 36-inch). Contractor will be required to remove 36-inch blind flange as part of this Project.

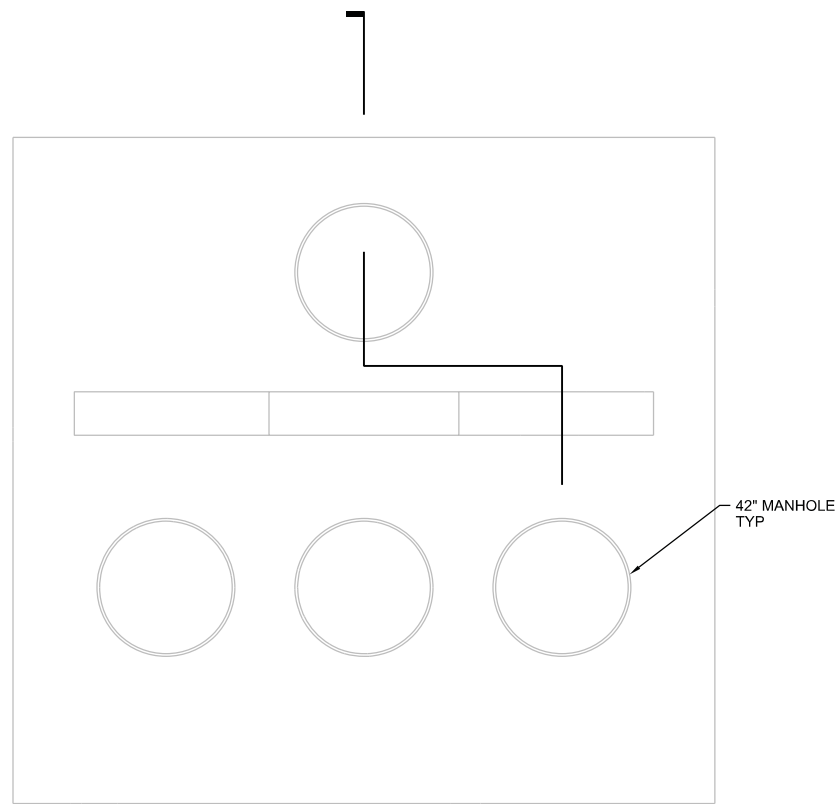


Figure 2. One of the Downstream Siphon Structure inlet pipes (36-inch) showing stop log channels.

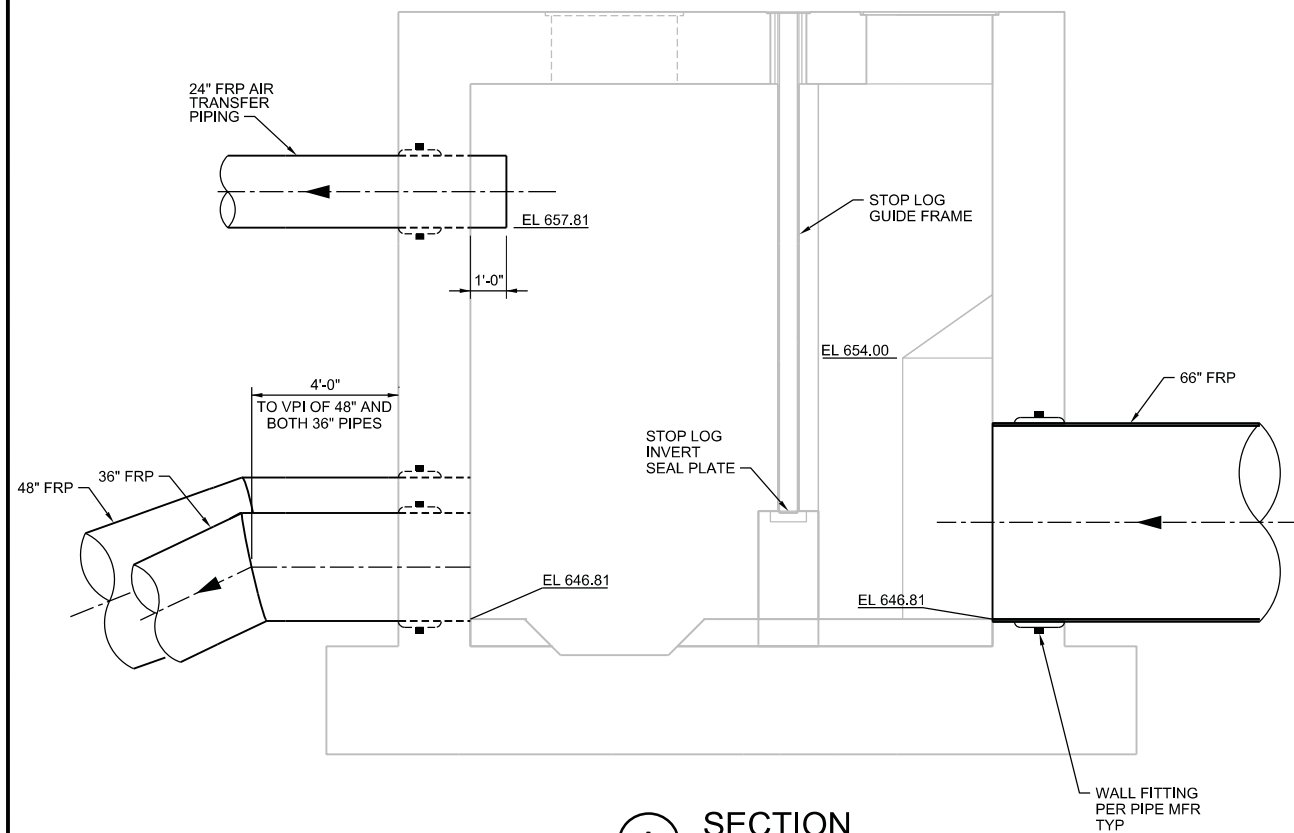


Figure 3. Top view of eastern 36-inch inlet pipe of the Downstream Siphon Structure inlet pipes showing stop logs installed. Also shown is the 60-inch outlet pipe and the 18-inch inlet pipe.

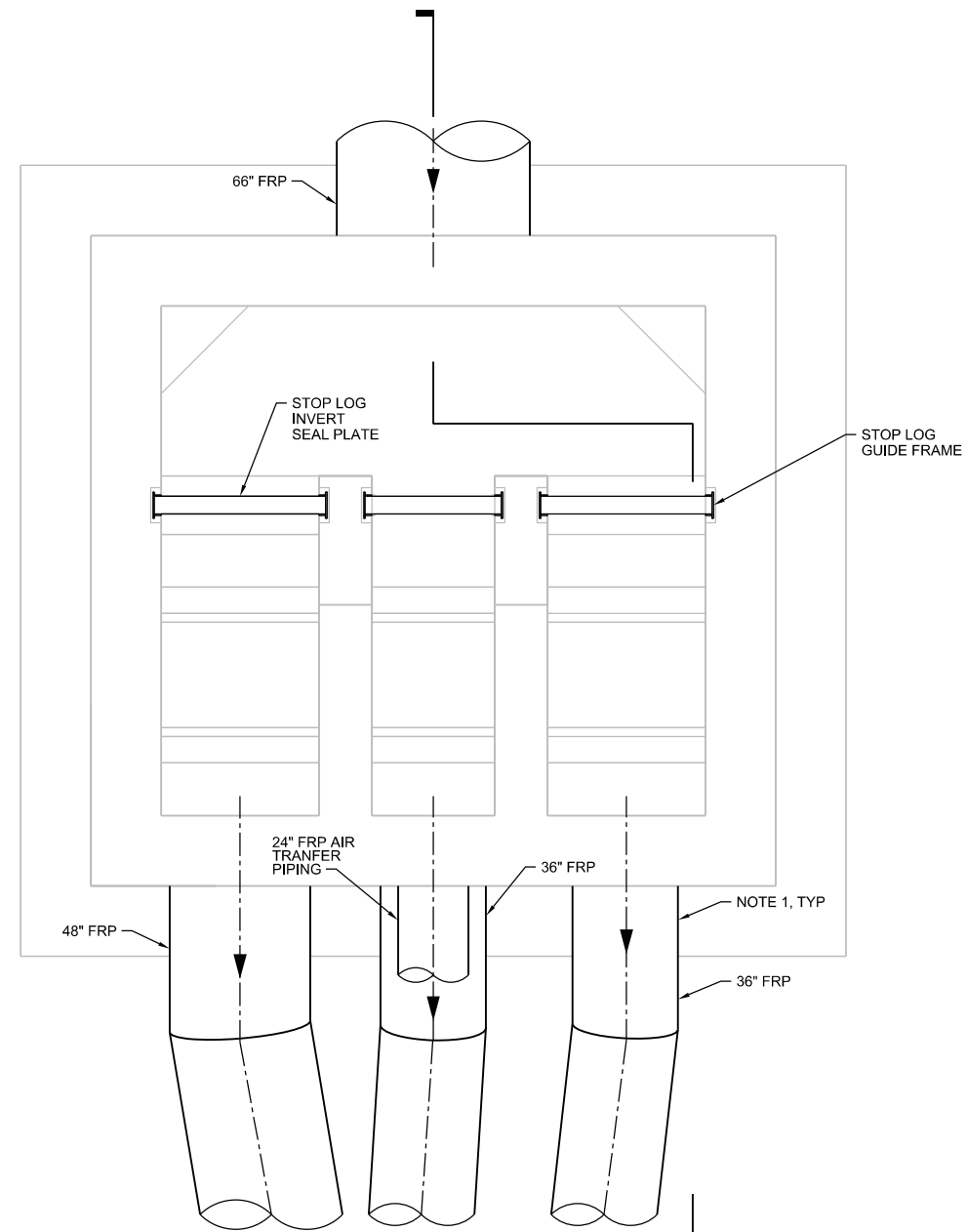




TOP PLAN
3/8"=1'-0"



SECTION A
3/8"=1'-0"



LOWER PLAN
3/8"=1'-0"

NOTES:

1. ALL PIPES CONNECTED TO STRUCTURE SHALL BE MANUFACTURED AS SINGLE FITTING COMBINED WITH BEND I.E NO JOINTS BETWEEN BEND AND STRUCTURE, TYP.

ADDENDUM NO. 4

Package A Siphon Inlet Structure Drawing provided for informational purposes only.

RECORD DRAWING
NOT FOR CONSTRUCTION

REVISION DRAWN BY Jonathan Vorhels DATE August 12, 2016

THESE RECORD DRAWINGS HAVE BEEN PREPARED, IN PART, ON THE BASIS OF INFORMATION COMPILED BY OTHERS. THEY ARE NOT INTENDED TO REPRESENT IN DETAIL THE EXACT LOCATION, TYPE OF COMPONENT NOR MANNER OF CONSTRUCTION. THE ENGINEER WILL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS WHICH HAVE BEEN INCORPORATED INTO THE RECORD DRAWINGS.

App.	Design Firm
Revisions	Job No.
No.	428863
Date	

THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY CH2M HILL ON JULY 9, 2014 IN CONNECTION WITH THE ALTERATION OF A PROFESSIONAL ENGINEER'S NOTIFICATION TO THE BOARD OF PROFESSIONAL ENGINEERS UNDER THE PRACTICE ACT.

Date: JULY 2014
Designed by: CM
Drawn by: C MCCOY
Checked by: WM
Scale: 1"=1'-0"
Scale: 0

CH2MHILL
CH2M HILL
ENGINEERS, INC
REC. NO.: F-3699

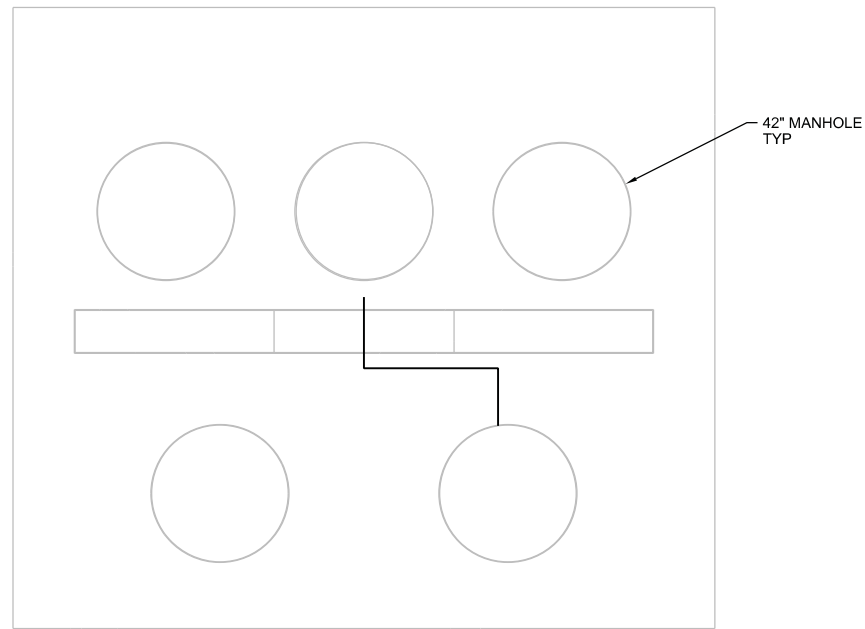
SAN ANTONIO
WATER SYSTEM

SAWS C.13
BROADWAY CORRIDOR PROJECT
PACKAGE A

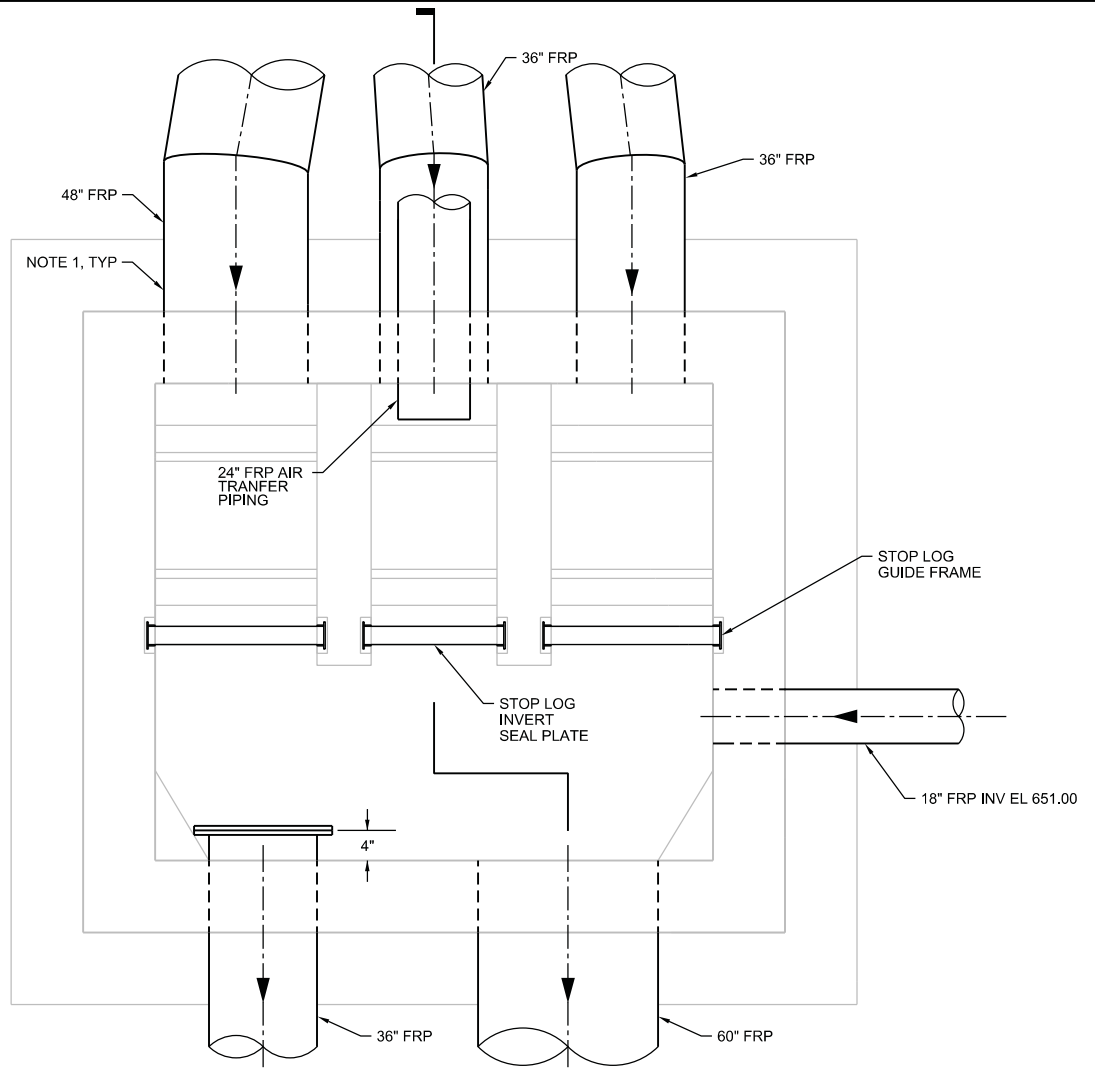
MECHANICAL
SIPHON INLET STRUCTURE

DWG NO. **A-M-01**

Sheet 37 of 60



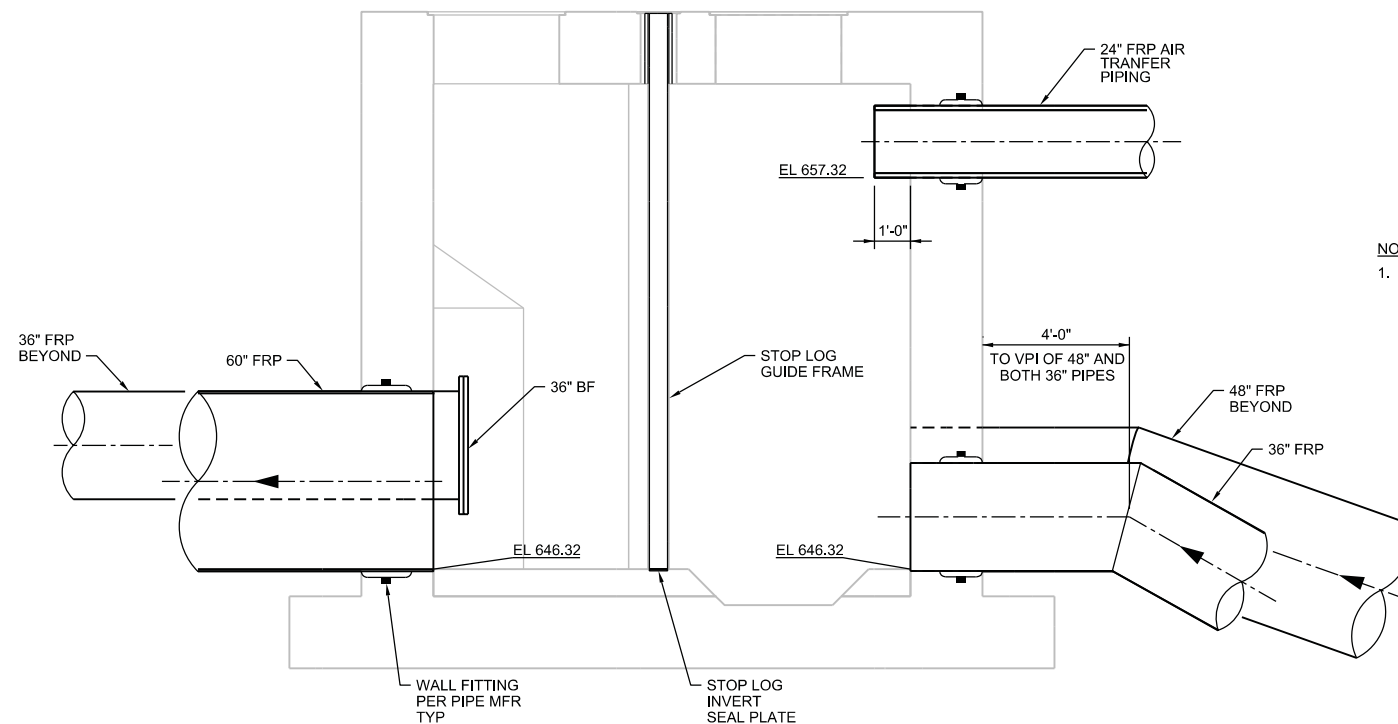
TOP PLAN
3/8"=1'-0"



LOWER PLAN
3/8"=1'-0"



- NOTES:**
- ALL PIPES CONNECTED TO STRUCTURE SHALL BE MANUFACTURED AS SINGLE FITTING COMBINED WITH BEND I.E. NO JOINTS BETWEEN BEND AND STRUCTURE, TYP.



A SECTION
3/8"=1'-0"

ADDENDUM NO. 4
Package A Siphon Outlet Structure Drawing
provided for informational purposes only.

RECORD DRAWING
NOT FOR CONSTRUCTION

REVISION DRAWN BY Jonathan Vorhejs DATE August 12, 2016
THESE RECORD DRAWINGS HAVE BEEN PREPARED, IN PART, ON THE BASIS OF INFORMATION COMPILED BY OTHERS. THEY ARE NOT INTENDED TO REPRESENT IN DETAIL THE EXACT LOCATION, TYPE OF COMPONENT NOR MANNER OF CONSTRUCTION. THE ENGINEER WILL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS WHICH HAVE BEEN INCORPORATED INTO THE RECORD DRAWINGS.

App.	Design Firm Job No. 428863
Revisions	THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY [Signature] ON JULY 9, 2014 AS ALTERATION OF A PROJECT WITHOUT PROPER NOTIFICATION TO THE ENGINEER IS AN OFFENSE UNDER THE PROFESSIONAL ENGINEERING PRACTICE ACT.
No.	Date

Date: JULY 2014
Designed by: CM
Drawn by: C MCCOY
Checked by: WM
Scale: 1"=1'-0"
BAR IS ONE INCH ON ORIGINAL DRAWING.

CH2MHILL
CH2M HILL
ENGINEERS, INC
REC. NO.: F-3699

SAN ANTONIO
WATER SYSTEM

SAWS C.13
BROADWAY CORRIDOR PROJECT
PACKAGE A
MECHANICAL
SIPHON OUTLET STRUCTURE

DWG NO. **A-M-02**

Sheet **38** of **60**



TJS	App.
ADDENDUM 4	Revisions
5/30/17	Date
No.	

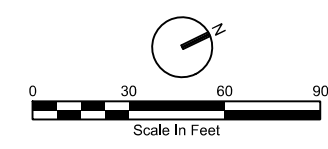
Date: MAY 2017
Designed by: TS
Drawn by: GWM
Checked by: TS
Scale:
BAR IS ONE INCH ON ORIGINAL DRAWING; 0



SAWS C-13
BROADWAY CORRIDOR PROJECT
PACKAGE B
PAVEMENT RESTORATION, TREE INVENTORY, & SW3P
MATCHLINE X-X TO MATCHLINE Z-Z

DWG NO. B-PT-06

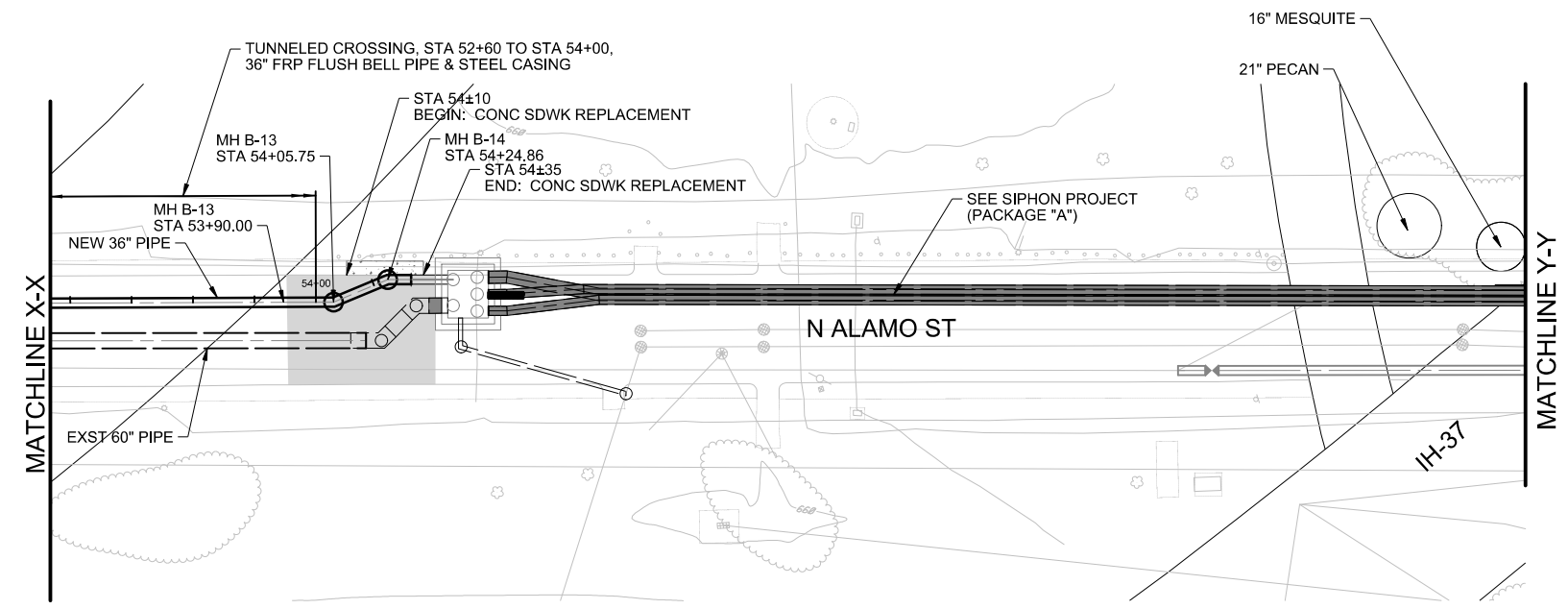
Sheet 20 of 72



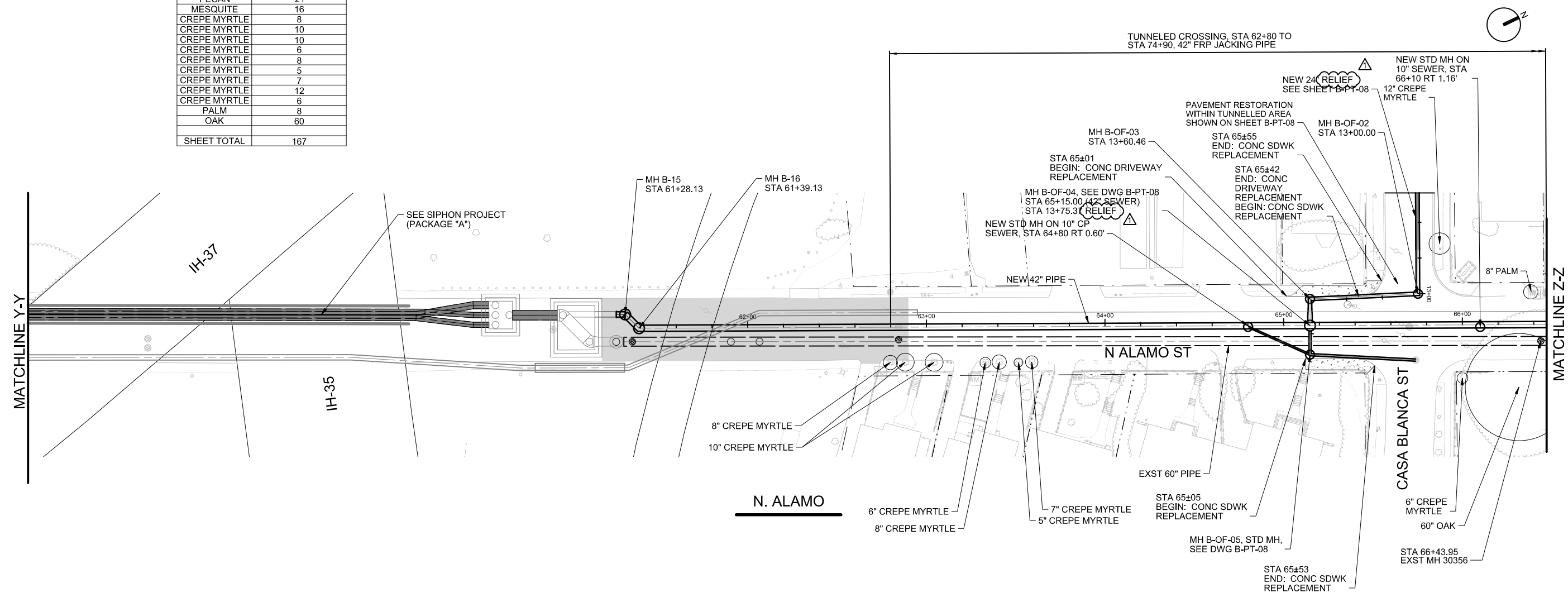
LEGEND

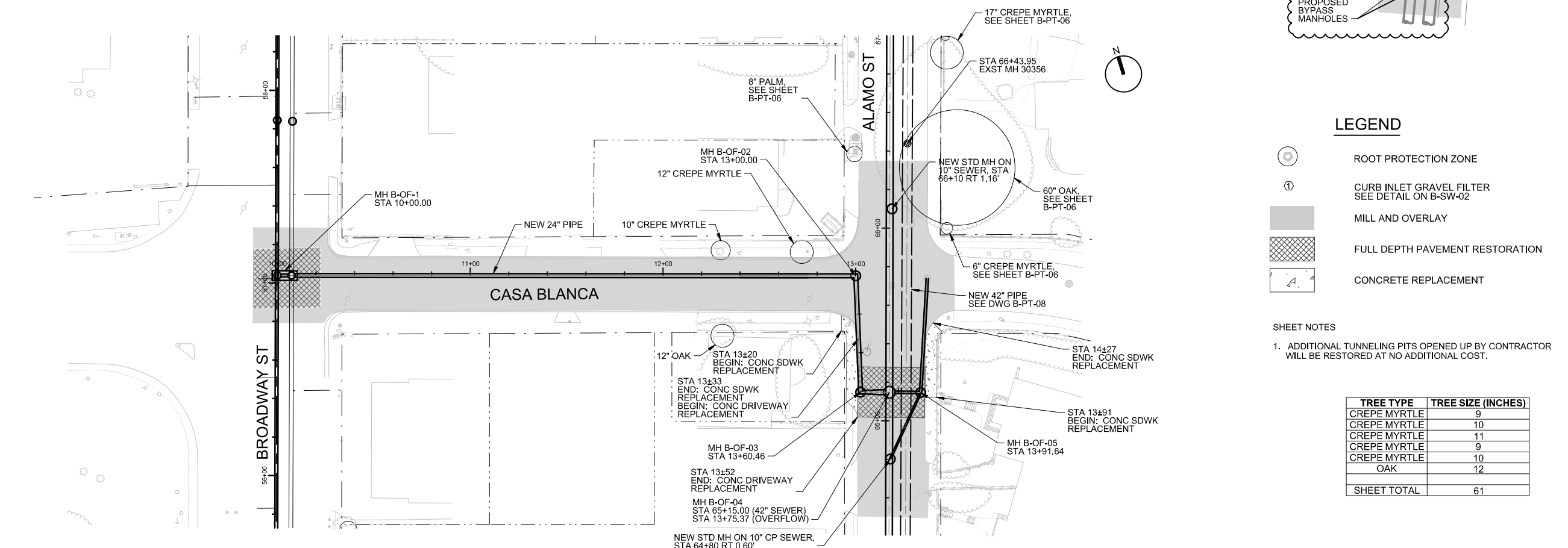
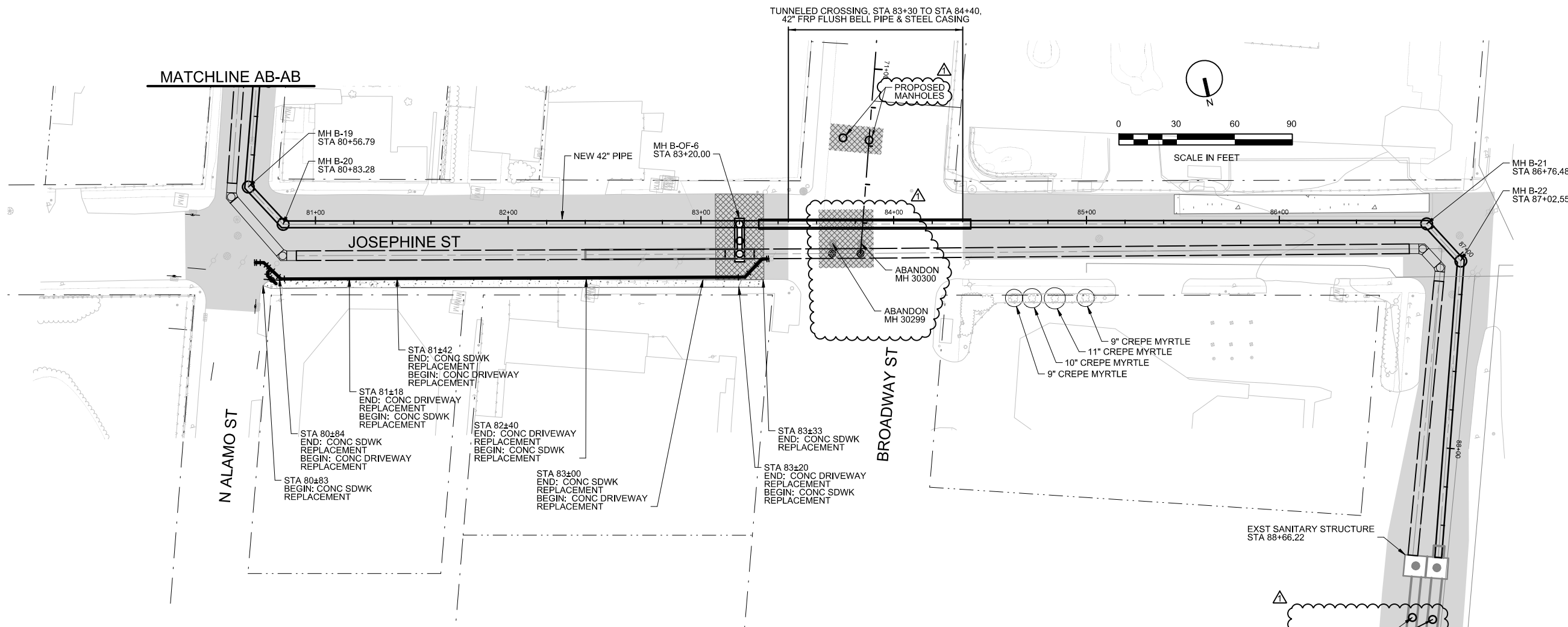
- ROOT PROTECTION ZONE
- CURB INLET GRAVEL FILTER
SEE DETAIL ON B-SW-02
- MILL AND OVERLAY
- FULL DEPTH PAVEMENT RESTORATION
- CONCRETE REPLACEMENT

SHEET NOTES
1. ADDITIONAL TUNNELING PITS OPENED UP BY CONTRACTOR WILL BE RESTORED AT NO ADDITIONAL COST.



TREE TYPE	TREE SIZE (INCHES)
PECAN	21
MESQUITE	16
CREPE MYRTLE	8
CREPE MYRTLE	10
CREPE MYRTLE	10
CREPE MYRTLE	6
CREPE MYRTLE	8
CREPE MYRTLE	5
CREPE MYRTLE	7
CREPE MYRTLE	12
CREPE MYRTLE	6
PALM	8
OAK	60
SHEET TOTAL	167





LEGEND

- ROOT PROTECTION ZONE
- CURB INLET GRAVEL FILTER
SEE DETAIL ON B-SW-02
- MILL AND OVERLAY
- FULL DEPTH PAVEMENT RESTORATION
- CONCRETE REPLACEMENT

SHEET NOTES

- ADDITIONAL TUNNELING PITS OPENED UP BY CONTRACTOR WILL BE RESTORED AT NO ADDITIONAL COST.

TREE TYPE	TREE SIZE (INCHES)
CREPE MYRTLE	9
CREPE MYRTLE	10
CREPE MYRTLE	11
CREPE MYRTLE	9
CREPE MYRTLE	10
OAK	12
SHEET TOTAL	61

Design Firm
Job No.
428863

ADDENDUM 4

Revisions

Date

No.

5/30/17

6/6/17

Date: MAY 2017

Designed by: TS

Drawn by: GWM

Checked by: TS

Scale:

BAR IS ONE INCH ON ORIGINAL DRAWING.

0

CH2MHILL

CP&Y

CP&Y, Inc.

TEBE REGISTRATION # F-1741

SAN ANTONIO

WATER SYSTEM

SAWS C-13

BROADWAY CORRIDOR PROJECT

PACKAGE B

PAVEMENT RESTORATION, TREE INVENTORY, & SW3P
MATCHLINE AB-AB TO END OF 60-IN PIPE
CASA BLANCA FROM ALAMO TO BROADWAY

DWG NO. **B-PT-08**

Sheet **22** of **72**

C_13 BROADWAY CORRIDOR, PACKAGE B

QUESTIONS RECEIVED AND RESPONSES AND CLARIFICATIONS

The following clarifications are provided to assist Contractors in submitting responsive bids:

1. All documents listed in Contractor's Bid Packet Checklist, amended in Addendum 2, shall be submitted with Contractor's Bid. The Record of Performance, provided in Addendum 2, shall be completely filled in; a list of projects will not be accepted as a substitute for the Record of Performance form.
2. Drawing B-S-05, Note 2. Final design of the precast polymer structure shall be performed as stated in Note 2 and in the Specifications. Final wall thicknesses may be adjusted at the discretion of the polymer concrete manufacturer's design engineer. Drawings and calculations will be reviewed by Owner and Consultant prior to construction.

The following questions were received by SAWS in writing prior to June 5, 2017:

1. Could you send me the engineer's estimates for these 2 projects, please?
 - C_13 Broadway Corridor Project Package B, SAWS Solicitation No. CO-00103, SAWS Job No. 16-4508
 - 2017 Edwards Aquifer Recharge Zone (EARZ) CIPP Construction Project, SAWS Solicitation No. CO-00130, SAWS Job No. 17-4536?

Response: The engineer's estimate for construction costs for this Project is included in this Addendum. The second project listed is not part of this Project.

2. Would SAWS consider allowing precast polypropylene riser and cone sections in lieu of fiberglass on the tee base manholes? (Predl Systems makes a liner system that provides dual containment of manholes as well as corrosion and infiltration prevention)

Response: This alternative will not be reviewed during bidding.

3. Please clarify if the Contractor will be required to demobilize bypass pumping equipment during the month-long shutdown for Fiesta. If bypass demobilization is required, will temporary restoration of suction and bypass pits be required?

Response: Demobilization and removal of bypass pumping equipment during the April 2018 No Construction Phase will be required if equipment is installed above-ground. Refer to Special Conditions for more information. Owner and ROW Permittee may allow buried bypass pumping equipment to remain as long as requirements of Special Condition are met.

4. SC-G, lists several events not mentioned in the pre-bid meeting requiring contractor coordination. Please provide information on the listed events including dates, event setup

and take town times, streets and areas affected by the events, and expected impact to traffic control and bypass installations of each event. This information is critical to determining contract costs for demobilization events.

Response: This section of the Special Conditions has been revised in this Addendum. Reference Bidding and Contract Documents section of this Addendum for revisions. The locations, dates, and therefore potential impacts to the Project, vary year-to-year. The only anticipated No Construction Phase is for the month of April for Fiesta.

5. Will traffic control installed for pipe excavation, trenchless construction, and bypass be allowed to remain in place during the month-long shutdown?

Response: These items are addressed in the Special Conditions (Section H. Work Restrictions) in the original Bid Documents.

6. SP 848.6-5 requires “hydrostatic testing” of sanitary sewers before payment. Please confirm that low-pressure testing for sewers per Specification 849 is what is meant.

Response: This section of the SP 848 has been revised in this Addendum. Please see Bidding and Contract Documents section of this Addendum for the change to the SP 848.

7. SS Article IV, Section 4.4 states Contractor shall perform at least 40% of the total original contract price. This project has a very high content of high-value and specialized work that will be performed by specialty contractors (e.g. CIPP, bypass pumping, trenchless construction, asphalt paving), making it difficult for any contractor to be able to meet the 40% requirement. Please confirm that the 40% requirement is SAWS’ intent.

Response: This requirement is revised in this Addendum to 30%. Please see Bidding and Contract Documents section of this Addendum for the change to the Supplemental Condition.

8. There is a disagreement in trench backfill terms between TYPICAL TRENCH REPLACEMENT details and 31 22 00, 3.05A. Please clarify name of the embedment/backfill zones for sanitary sewer and the required/allowed materials for each zone.

Response: Backfill for trenches shall be as shown on the drawings and described in SAWS Item No 804 Excavation, Trenching and Backfill. Specification 31 22 00 is amended in this Addendum to reflect this. Please see Technical Specifications section of this Addendum for the change to Specification 31 22 00.

-
9. Will you please clarify the meaning of the unit abbreviation “MD” found in the Bid Proposal (Line Nos. 21, 88, 89 & 90)

Response: MD stands for “Man-Day”; for equipment that must remain operating for 24 hours per day, then the period is 24 hours.

10. What is the deadline for submitting questions generated by future addenda?

Response: Due to time constraints the question and answer period will not be extended. Questions submitted after the deadline will be forwarded to the Consultant to address only at his discretion.

11. The pay item descriptions for installation of FRP by open cut (106-109) contain the phrase “including Post-CCTV”. The pay item descriptions for FRP installed in casing or by direct-jack (110-110 & 70-71) do not include that verbiage, nor do the other diameters of installed sanitary sewer. Please clarify/confirm that only the sanitary sewers with that phrase in the pay item description are required to be post-installation CCTV inspected.

Response: Specification 33 05 01.08 has been revised in this Addendum. Only those items identified in the Bid Proposal with “including Post-CCTV” will be required to have television inspection. Please see Technical Specifications section of this Addendum for the change to the 33 05 01.08.

12. Special Provision 848.6-5 requires “hydrostatic testing” of sanitary sewers before payment. Please clarify this testing is defined in Section 33 05 01.08, Fiberglass Reinforced Pipe and Fittings, Part 3.06 Field Testing, where testing should adhere in accordance to TCEQ Chapter 217 and also in accordance to SAWS Specification Item No. 849.

Response: This section of the SP 848 has been revised in this Addendum. Please see Bidding and Contract Documents section of this Addendum for the change to the SP 848.

13. Are the recommended bypass routes required or are alternate routes acceptable? Is there a specific reason the recommended routes were selected?

Response: Contractor is required to generate the Bypass Pumping Plan, including routes for pipelines. Potential Bypass routes shown in “Bypass Pumping Plan” Sheets are provided for information purposes only. The routes provided are not recommended, but are shown within the ROW of the project and have been discussed with ROW Permittees.

14. The plans for the bypass downstream of the siphon note that the upstream siphon structure will be used as the pump suction station. Given that the illustration does not note which

point on the siphon structure should be used for suction, we would like clarification on whether the siphon outlet structure (downstream end) is acceptable as the suction point?

Response: Contractor is required to generate the Bypass Pumping Plan. Potential suction and discharge locations shown in "Bypass Pumping Plan" Sheets are provided for information purposes only. Per Sheet B-C-09, entry into siphon outlet structure is required. Record Drawings and photographs for siphon structures are provided in this Addendum to assist potential bidders in estimating a potential bypass pumping plan. Contractor is allowed to utilize siphon outlet structure as a suction point if this is part of the Contractor's approved bypass pumping plan.

15. Will TXDOT permitting or special provisions be required in order to place bypass piping and pumps under the highway?

Response: SAWS will obtain TxDOT permit. It is not expected that there will be limitations to the placement of bypass piping and pumps under the highway overpasses, except during the No Construction Phase. Bypass piping and pumps were placed under the highway overpasses during the execution of C_13 Package A.

16. Will a specific traffic control plan be established by SAWS for the block of work to be completed along N Alamo Street between E Josephine St and Grayson Street? There are numerous residences along this road and the street is very narrow. It is likely there will be significant issues with completing open cut, CIPP, and routing bypass piping down this street while still allowing resident vehicles to access their homes.

Response: Traffic control plans (TCP) are to be developed by Contractor. SAWS, the Consultant and COSA will work with Contractor to assist in developing a reasonable and acceptable TCP. Contractor may be required to phase work so that all activities listed in question are not being performed concurrently in this block.

17. There is no CIPP specification section 901 published in the contract documents for this project. Will the CIPP specification for this project be the new standard specification section 901 for Item 901.1 from the SAWS Standard Specifications for Construction published March 2017? Is this also true for the bypass specification sections 864-S1 and 864-S2?

Response: The Contract Documents Table of Contents has been revised in Addendum 2 to list the March 2017 date for SAWS Item 901. Similarly, Addendum 2 also lists the March 2017 for SAWS Items 864-S1 and 864-S2.

18. Assuming the new March 2017 SAWS standard specification section 901 will govern the CIPP for this project, 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, 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 area where this project is located.

Response: SAWS Item 901 has been revised in this Addendum. Please see attached SP 901. 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. Site-specific geotechnical information was provided in Addendum 1 for informational purposes only.

- b. The groundwater level for design is specified to be at the surface. This is a worst-case scenario that is rarely true on a permanent basis, and when it is exaggerated, will unnecessarily increase the CIPP design thickness, which increases difficulty of installation and overall project cost. We request that a revised ground water level be provided specifically for this project that is applicable for the area where this project is located.

Response: SAWS and Consultant will consider revision of the groundwater level requirement during execution of the project at the request of the Contractor. Contractor may submit data and calculations signed and sealed by a Texas Professional Engineer utilizing other values for groundwater level. For bidding purposes, groundwater level requirements presented in SAWS Item 901 will remain unchanged.

- c. The groundwater level for design 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 requiring the inclusion of the 100-year floodplain water surface 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.

Response: The CIPP Work for this Project is not within the 100-year floodplain.

-
- d. Will the 100-year floodplain be applicable for the CIPP design on this project? If not, please confirm that CIPP designs will not need to account for the 100-year floodplain. If so, please provide the 100-year floodplain water surface level elevations to be used in CIPP design for any area where the 100-year floodplain will be applicable. This information does not appear to be currently shown on the drawings, so it makes it difficult if not impossible to determine what the required 100-year floodplain level would be for use in the CIPP designs.

Response: The CIPP Work for this Project is not within the 100-year floodplain.

- e. 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.

Response: Noted.

19. After reviewing the bid schedule in conjunction with the drawings, we have the following questions regarding many of the bid items:

- a. Should bid item no. 60 / spec SP 850 for the Casa Blanca Flow Splitting Structure with Stop Logs actually be for building MH B-OF-1 instead of for building MH B-OF-5 as is currently shown? It appears this item was really meant for building MH B-OF-1.

Response: Bid Item "Casa Blanca Flow Splitting Structure with Stop Logs (MH B-OF-05)(Precast Polymer)" has been revised in this Addendum. The item has been revised to "Casa Blanca Flow Splitting Structure with Stop Logs (MH B-OF-01)(Precast Polymer)". See Bid Proposal attached to this Addendum.

- b. Instructions on the Bid Proposal page BP-1 indicate there should be percentage limitations for the mobilization/demobilization bid item no. 1 & the preparation of ROW bid item no. 4. However, these percentage limitations do not appear to be specified. Should these items have maximum percentage limitations specified?

Response: This question has been addressed in Addendum 2 in the Bid Proposal and is also addressed in the Bid Proposal attached to this Addendum.

- c. Please clarify the unit of measure Man Day (MD) for how the portable changeable message signs will be paid under bid item no. 21. Will they be paid per each sign per day?

Response: Portable changeable message signs will be paid per each sign per day as required by SAWS, COSA and TxDOT.

-
- d. For the shutdown for the month of April 2018, will SAWS pay for the Contractor's required demob/remob under bid item no. 2 / spec SP 100 for Intermediate Demob/Remob?

Response: No. See Changes to the Plans within this Addendum in which the Special Conditions have been revised. The No Construction Phase will not have a separate Demobilization/Remobilization pay item and the Contractor will not be allowed to utilize the SP 100 Intermediate Demob/Remob pay item for this activity.

- e. Under what bid item will the 24"/30" FRP transition and the short section of 30" shown on sheet 41, dwg B-C-18 be paid? There do not appear to be bid items for the 30" FRP or the 24"/30" transition, and the 24" FRP bid quantity does not appear to account for the 30" length.

Response: The 24"/30" FRP transition shown on DWG B-C-18 shall be paid under the 24" FRP (open cut) including Post-CCTV Bid Item. This Bid Item has been revised in this Addendum to address this revision and is denoted as "24" FRP (open cut) including Post-CCTV and including 24" x 30" transition at Sta. 13+60 to 13+75 on B-C-18".

- f. Under what bid item will the 76 LF of new 15" PVC sewer that is being installed and the 70 LF of 15 PVC sewer that in being abandoned on sheet 41 & 34, dwg B-C-18 & 11 be paid? There do not appear to be bid items associated with this work.

Response: Please refer to revised Bid Proposal Items 57 and 79 in this Addendum.

- g. Bid item no. 66 / spec SP 853 for 42" Tee-Base Branch Drop Manhole references manholes B-OF-5 & B-OF-4 in its description. However, this does not appear to be correct for MH B-OF-5, which does not appear to be a tee-base manhole on the drawings. Should MH B-OF-5 be removed from the description for this bid item?

Response: This Bid Item has been revised in this Addendum. MH B-OF-5 has been removed from this Bid Item.

- h. On sheets 41, 34 & 33, dwgs B-C-18, 11 & 10, there are 5 new Std manholes being installed: MH B-OF-2, B-OF-3, B-OF-5, MH@66+10, & MH@64+80. Note 5 on those drawings says that all manholes noted to be std manholes will be built per DD-852-01 or DD-853-01. However, there do not appear to be enough manholes on the bid schedule being built under spec 852 for that spec item to include these 5 manholes, and all the manholes on the bid schedule being built under spec 853 are shown to be tee-base manholes, which these 5 do not appear to be. Also, there does not

appear to be a detail called DD-853-01 that we could locate in SAWS standard details. Will these 5 manholes be concrete or FRP, and which bid item will they be paid under?

Response: The five manholes listed (MH B-OF-2, B-OF-3, B-OF-5, MH@66+10, and MH@64+80) shall all be standard manholes and shall be paid for under Bid Item 852. This Bid Item has been revised in this Addendum. Refer to attached Bid Proposal. Quantities for Bid Items SP 850 and SP 853 have also been revised in this Addendum. Per Drawings, standard manholes can be concrete (SAWS Item 852) or FRP (SAWS Item SP 853). There is no longer a DD-853-01 and this reference has been deleted from the Drawings in this Addendum. Refer to Drawings Section of this Addendum.

- i. Will the 2 bypass manholes being installed on sheet 38, dwg B-C-15 be paid for by SAWS, or is their installation considered incidental to the bypass? If they will be paid for by SAWS, what standard spec will govern their construction and what bid item will they be paid for under? If they are incidental to bypass, does that mean they will be considered temporary structures, and if so, will they be required to be removed &/or abandoned at the end of construction, and what standard spec will govern how they are installed?

Response: The two bypass manholes shown on DWG B-C-15 are considered incidental to the bypass pumping plan and will not have a separate pay item. The manholes shall be installed per SAWS Item 850 and shall be considered permanent structures. Contractor shall provide submittal for approval on installation of manholes on each pipe.

- j. How is the waterline removal and abandonment shown in various locations on the drawings paid for? Is the waterline removal and abandonment work incidental to the waterline construction items?

Response: Waterline removal and abandonment is incidental. Refer to SAWS Item 812.4 section 13.

- k. Under what bid item will the new 6" PVC waterline that is being installed on sheet 37, dwg B-C-14 be paid? There does not appear to be a bid item associated with this work.

Response: The Bid Proposal has been revised in this Addendum to provide a bid item for 6" PVC. Refer to Bid Proposal attached to this Addendum.

- l. How will the removal and replacement of the 2 storm drain manholes shown on sheets 37 & 36, dwgs B-C-14 & 13 be paid for, and what standard spec will govern

how they are installed? There does not appear to be a bid item associated with the storm drain manhole work.

Response: The Bid Proposal has been revised in this Addendum to provide a bid item for storm drain manholes (COSA 307.5). Refer to Bid Proposal attached to this Addendum.

- m. How will the removal and replacement of the 3 storm drain manholes shown on sheets 38 - 36, dwg B-C-05 to 03 be paid for, and what standard spec will govern how they are installed? There does not appear to be a bid item associated with the storm drain manhole work.

Response: The Bid Proposal has been revised in this Addendum to provide a bid item for storm drain manholes (COSA 307.5). Refer to Bid Proposal attached to this Addendum.

- n. How will the removal and replacement of the 10" sanitary sewer and sanitary sewer manholes shown on sheets 37, 36, 26 & 25, dwg B-C-14,13,03&02 be paid for? Will this work be paid for under bid item no. 82 / spec 862 & bid item no. 57 / spec SP 848 for removing & replacing the 10" sewer, and under bid item no. 63 / spec SP 850 for replacing the sewer manholes? If bid item no. 63 will be the payment item for the manholes, its spec reference of SP 850 appears to conflict with note 5 on sheet 25, dwg B-C-02, which states that all manholes on the relocated 10" are to be std manholes per DD-852-01 or DD-853-01.

Response: The sewer line removal/abandonment/replacement will be paid under Bid Items SP 848 and 862. The five manholes (MH B-OF-2, B-OF-3, B-OF-5, MH@66+10, and MH@64+80) shall all be standard manholes and shall be paid for under Bid Item 852. This Bid Item has been revised in this Addendum. Refer to attached Bid Proposal. Quantities for Bid Items SP 850 and SP 853 have also been revised in this Addendum. Per Drawings, standard manholes can be concrete (SAWS Item 852) or FRP (SAWS Item SP 853). There is no longer a DD-853-01 and this reference has been deleted from the Drawings in this Addendum. Refer to Drawings Section of this Addendum.

- o. From the quantity of 33 EA for bid item no. 103 / spec 1109 for Lateral Reconnection, it appears that this item may be combining internal lateral reinstatement in the CIPP portions with external lateral reconnections in the open-cut portions into one bid item. Since those 2 methods of reinstatement/reconnection are vastly different in both how they are performed, and their associated cost, we strongly recommend that internal lateral reinstatements in CIPP be performed under a separate bid item from any external open-cut reconnections.

Response: The Bid Proposal has been revised in this Addendum to separate the Lateral Reconnection payment items specified in SAWS Item 1109. Refer to Bid Proposal attached to this Addendum.

- p. There is a bid item no. 98 / spec 910.1 on the bid schedule for Manhole Rehabilitation per VF that does not appear to have any associated work designated on the drawings. Per spec section 910, Manhole Rehabilitation under item no. 98 would only be for standard 4-foot diameter manholes. However, all the manholes designated to be rehabilitated on the drawings are on 60" sewers, which means the manholes should be over 4-foot in diameter, and should actually be considered to be sewer structures for purposes of rehabilitation instead of manholes, which would be measured per SF and paid under bid item no. 99 / spec 910.2. Are there any standard 4-foot diameter manholes that will be rehabilitated on this project, and if so, which manholes would they be?

Response: Per the Record Drawings of the 60-inch RCP Project, the manhole stacks installed on the 60-inch pipe are all 48 inches in diameter. Similar to a Tee-Base Manhole, these manholes do not have a separate bench and channel from the 60-RCP main pipe. This bid item will be used to pay for rehabilitation of the 60-inch RCP manholes and will not be revised.

20. For all manholes and structures being rehabilitated, will the manhole ring and cover be required to be replaced with a new ring and cover? If so, will this work be paid per each structure under a separate bid item (i.e. manhole adjustment), or will this work be incidental to the manhole and structure rehab items?

Response: For manholes and structures being rehabilitated per SAWS Item 910, replacement of manhole ring and cover is not required.

21. When a manhole ring and cover is required to be replaced with a new ring and cover, will the new ring and cover be the same diameter as the original? Are there situations where a larger diameter ring & cover will be required to be installed, and if so, what diameter will the larger ring and cover be, and at which manholes would they be installed?

Response: Section 851.3 of SAWS Item 851 provides guidance on circumstances for re-installing existing manhole rings and covers (regardless of diameter) and when to upgrade to a 30-inch opening per TCEQ requirements.

22. 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?

Response: SAWS will obtain the TxDOT ROW permit and COSA Tree Permit. The Contractor shall be responsible for the COSA ROW permit and any stormwater permits needed. No, SAWS will pay the expenses for the permits SAWS is obtaining. No, the Contractor shall include the cost of the permits the Contractor is obtaining with the bid price.

23. Will any of the new manholes or sewer structures be required to be coated? If so, which ones will require coating after installation, and which will not need to be coated? When a new manhole or structure is required to be coated, will this coating be paid for under the manhole or sewer structure rehab bid item nos. 98 or 99, or will the coating be incidental to the manhole or structure installation and not be paid separately?

Response: All precast concrete manholes and structures will be required to be coated per SAWS Items 850 and 852. Fiberglass manholes per SAWS Item 853 do not require cementitious coating. Polymer Concrete Structures per SP 850 and 03 34 10 also do not require cementitious coating.

24. Note 52 on sheet 4, dwg B-G-04, and Traffic Note 1 on sheet 14, dwg B-TC-01, call for traffic control plans submitted by the Contractor to be sealed by a professional engineer registered in the state of Texas. Is this note correct that the submitted traffic control plans will need to be sealed by an engineer?

Response: Yes, Traffic Control Plans, signed and sealed by a Professional Engineer licensed in the state of Texas, shall be submitted by the Contractor.

25. COSA ROW Management Note 21 on sheet 14, dwg B-TC-01, says the Contractor shall provide metal protectors for wastewater bypass pumping hoses for adequate protection. Please clarify what these metal protectors would consist of.

Response: Contractor shall provide metal protectors as needed to prevent damage to existing roadways and as needed to protect the by-pass lines from damage from vehicular traffic.

26. Sheets 70 – 72, dwgs B-CP-01to03, contain Sample Project Construction Phasing where the project has been broken down into phases, and with a sequence for those phases provided. The General Notes on sheet 70, dwg B-CP-01 state that the sample project construction phasing plan presented therein is provided as an example only, that the Contractor is required to schedule work activities, and that the Contractor will be allowed to work in multiple locations as allowed by COSA and TXDOT permits and as approved by SAWS. Please confirm that this presented phasing on sheets 70 - 72 is just suggested, and that the Contractor will not be required to follow that phasing when developing his methods and sequence of work.

Response: Confirmed – Contractor will not be required to follow potential phasing shown on DWGs B-CP-01 through B-CO-03. Contractor is required to develop their own phasing and work sequence, which shall be presented with their bid in the form of a Microsoft Project schedule as described in Supplemental Conditions (Article V).

27. Will owner or engineer provide a traffic control plan for this project?

Response: No Traffic Control Plan will be provided for the project. Contractor is required to generate a Traffic Control Plan and submit for approval from SAWS, COSA and TxDOT.

28. Several recent projects issued by SAWS have contained CIPP specifications that vary from one project to another. Projects bidding after 2/27/17 including this one, refer to the 901 CIPP specification on the SAWS web site. We request that based on this specification and certain critical items included therein, that SAWS refer to alternative specifications that will prove to be more beneficial, efficient, and cost effective for the project. We feel that the specifications used in SAWS Job 14-4652, CO-00098-SM, Castroville Road are well suited to this project. I have attached a copy for your consideration.

Response: SAWS Job 14-4652 901 Specification has been reviewed. Based upon information received from potential bidders, SAWS Item 901 has been revised in this Addendum. The soil modulus requirements have been modified. Please see attached SP 901.

29. During the no construction period in April, we understand that there will be no activities. Does this requirement include restoring all lanes of traffic, removal of by-pass pumping systems, etc. and de-mobilizing for the month?

Response: These items are addressed in Special Conditions.

30. Will SAWS allow for any of the by-pass on the existing 60" Line to be ran through any portions of the newly constructed 42" Line during Pipe Rehab or CCTV?

Response: Per SAWS Item 864-S2, the proposal to use adjacent sanitary sewers is allowed in the Bypass Pumping Plan.

31. Please consider the following requests for modifications to your project specification Section 33 05 01.08:

- a. Eliminate ASTM D3754 standard, which is applicable to pressure sewer applications.

Response: This requirement will not be eliminated.

- b. In part 2.02-A-7, replace “square to the pipe axis with maximum tolerance of 1/8-in” with “squareness of pipe ends in accordance with section 6.2.4 of ASTM D3262.”

Response: This requirement will not be eliminated.

- c. In part 2.02-A-9, replace “The extrapolated 50-year strain corrosion value shall not be less than 0.9% as determined in accordance with ASTM D3681 and ASTM D3262” with “The extrapolated 50-year strain corrosion value shall be in accordance with Table 4 of ASTM D3262.”

Response: This section will not be replaced with the suggested text.

- d. Replace 2.02-A-12 with “All pipes shall be in compliance with ASTM D3262. Pipe shall be manufactured to result in a dense, nonporous, corrosion-resistant consistent composite structure. The interior surface of the pipes shall be manufactured using a polyester resin liner. The interior surface shall provide crack resistance and abrasion resistance. The exterior surface of the pipes shall provide UV protection to the exterior. Pipes shall be Type 1, Liner 1 or 2, Grade 1 or 3 per ASTM D3262.” The way the section is currently written makes a single pipe manufacturer to be the sole source for the project.

Response: This section will not be replaced with the suggested text.

- e. In part 2.02-B-8-e, replace “Flush bell joint sleeves shall be stainless steel and of the same external dimensions as the pipe barrel” with “Flush bell joint sleeves shall be stainless steel or fiberglass and of the same external dimensions as the pipe barrel.” Fiberglass sleeves show the same performance, are commonly used and cost less than stainless steel.

Response: This section will not be replaced with the suggested text.

- f. In part 2.02-B-8-f, replace “With two grout/lubricant ports...Provide flush mount-stainless steel plugs for sealing the fittings capable of withstanding external and internal pressures and loads without leaking” with “With two grout/lubricant ports...Provide flush mount-stainless steel or plastic plugs for sealing the fittings capable of withstanding external and internal pressures and loads without leaking.” Plastic grout ports show the same performance, are commonly used and cost less than stainless steel.

Response: This section will not be replaced with the suggested text.

32. The specification section calls out US Composite Pipe as the only approved manufacturer, and exception for pre-approved equal for polymer concrete. Armorock requests a written inclusion via addendum to bid for the project as a “pre-approved equal” to add competition to the bid.

Response: This request cannot be completed during bidding. However, General Conditions Article 5.11 addresses the process for this request to be considered after the Contract has been awarded.