

West Sewershed Package 1 Solicitation Number: CO-00196 Job No.: 17-4546

ADDENDUM 1

August 30, 2018

To Bidder of Record:

This addendum, applicable to work referenced above, is an amendment to the bid proposal, plans and specifications and as such will be a part of and included in the Contract Documents. Acknowledge receipt of this addendum by entering the Addendum number and issue date on the space provided in submitted copies of the bid proposal.

CHANGES TO THE SPECIFICATIONS

- 1. Remove Contractor's Bid Packet Checklist in its entirety and replace with Contractor's Bid Packet Checklist provided in this addendum.
- 2. Remove Bid Proposal form in its entirety and replace with Bid Proposal form provided in this addendum. This version of the Bid Proposal should be utilized by Bidders when submitting a bid for this project.

CHANGES TO THE PLANS

1. Remove Sheets 6, 7, 8, 9, 10, 11, 12, 13, and 14 in their entirety and replace with Sheets 6, 7, 8, 9, 10, 11, 12, 13, and 14 provided in this addendum.

END OF ADDENDUM

This Addendum, including this one (1) page, is thirteen (13) pages with attachments in its entirety. Attachments:

- Contractor's Bid Packet Checklist
- Bid Proposal
- Plans Sheet 6 14: Sanitary Sewer Engineering Plan

1.1.1 Atlan David Weikel

Trihydro Corporation



CONTRACTOR'S BID PACKET CHECKLIST: West Sewershed Package 1 Project SAWS Job No. 17-4546 SAWS Solicitation No. CO-00196

Items to be included for Submittal with Bid:

- O Bid proposal and Acknowledgement of All Addendums (Addendum 1)
- O Proposal Certification; page PC-1
- O Bid Bond/Cashier's Check
- O Statement on President's Executive Orders Page IB 6 or 7
- O Good Faith Effort Plan
- O Conflict of Interest Questionnaire Form CIQ (Rev. 11/30/2015)
- O Proof of Insurability (Letter from Insurer or Sample Certificate of Insurance)
- O Detailed Baseline Schedule
- O An information packet on company showing organization and equipment
- O A statement regarding ability to complete the project within the schedule taking into account existing commitments
- O Statement of Bidder's Experience
- O A completed and signed W-9

BID PROPOSAL

PROPOSAL	OF
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_____, 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.

BID

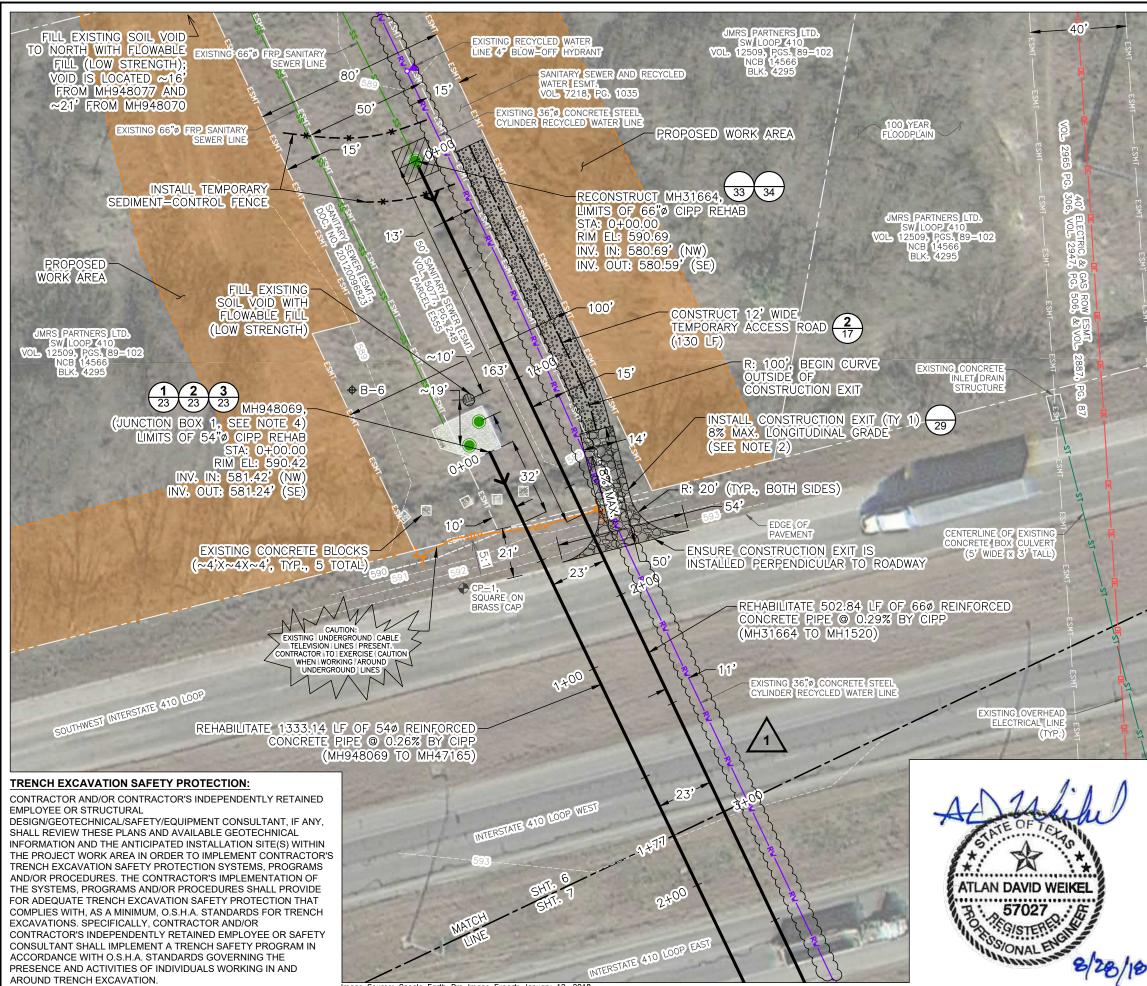
The bidder offers to construct the Project in accordance with the Contract Documents for the contract price, and to complete the Project within <u>300</u> calendar days after the start date, as set forth in the Authorization to Proceed. The bidder understands and accepts the provisions of the contract 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.



SAWS West Sewershed Package 1 SAWS Job No. 17-4546 Solicitation No. CO-00196

LINE NO.	ITEM NO.	DESCRIPTION	UNIT	QUANTITY	UNIT PRICE	TOTAL PRICE
		MOBILIZATION (Maximum of 10% of the total of	0	Q0/11111	UNITFRICE	TOTAL PRICE
1	100	Line Items 4-28)	LS	1		
2	100	INTERMEDIATE DEMOB/REMOB	LS	1		
3	101	PREPARING RIGHT-OF-WAY (Maximum of 5% of the total of Line Items 4-28)	LS	1		
		· · · · · · · · · · · · · · · · · · ·	SY			
4	169	SOIL RETENTION BLANKET (CLASS 1, TYPE A)		276		
5	200	BASE COURSE (6-INCHES COMPACTED DEPTH)	SY	2,450		
6	220	BLADING	LF	1,837		
7	413	FLOWABLE FILL (LOW STRENGTH)	CY	75		
8	502	BARRICADES, SIGNS AND TRAFFIC HANDLING	LS	1		
9	506	CONSTRUCTION EXITS (INSTALL) (TY 1)	SY	316		
10	506	CONSTRUCTION EXITS (REMOVE)	SY	316		
11	515	TOPSOIL	CY	25		
12	516	BERMUDA SODDING	SY	150		
13	520	HYDROMULCHING TEMPORARY EROSION, SEDIMENTATION, AND WATER	SY	276		
14	540	POLLUTION PREVENTION AND CONTROL	LS	1		
15	540	TEMPORARY SEDIMENT-CONTROL FENCE	LF	552		
16	550	TRENCH EXCAVATION SAFETY PROTECTION	LF	446		
17	552	WIRE FENCE (TY C)	LF	1,735		
18	552	18' GATE (TY 3)	EA	7		
19	855	RECONSTRUCTION OF EXISTING MANHOLES	EA	6		
20	855	RECONSTRUCTION OF EXISTING SIPHON INLET STRUCTURE (MH 4587)	EA	1		
21	864-S2	BYPASS PUMPING LARGE DIAMETER SANITARY SEWER SEWER MAIN TELEVISION INSPECTION	LS	1		
22	866	(30" AND LARGER) CIPP 54" SANITARY SEWER PIPE (HOT WATER CURED),	LF	7,292		
23	901	ALL DEPTHS CIPP 66" SANITARY SEWER PIPE (HOT WATER CURED),	LF	3,583		
24	901	ALL DEPTHS	LF	3,709		
25	1103	POINT REPAIRS FOR 54" DIAMETER, INCLUDING 9 LF OF PIPING, ALL DEPTHS	EA	3		
26	1103	POINT REPAIRS FOR 66" DIAMETER, INCLUDING 9 LF OF PIPING, ALL DEPTHS	EA	3		
27	1103	OBSTRUCTION REMOVAL BY REMOTE DEVICE, 54" DIAMETER, ALL DEPTHS	EA	5		
		OBSTRUCTION REMOVAL BY REMOTE DEVICE, 66"				
28	1103	DIAMETER, ALL DEPTHS	EA	5		



nage Source: Google Earth Pro Image Export; January 12, 2018

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	ESTIMATED QUANTITIES									
ITEM	DESCRIPTION	UNIT	EST.	FINAL						
200	BASE COURSE (6-INCHES COMPACTED DEPTH)	SY	174							
220	BLADING	LF	130							
413	FLOWABLE FILL (LOW STRENGTH)	CY	16							
506	CONSTRUCTION EXITS (INSTALL) (TY 1)	SY	97							
506	CONSTRUCTION EXITS (REMOVE)	SY	97							
520	HYDROMULCHING	SY	45							
540	TEMPORARY SEDIMENT-CONTROL FENCE	LF	99							
550	TRENCH EXCAVATION SAFETY PROTECTION	LF	80							
855	RECONSTRUCTION OF EXISTING MANHOLES	EA	1							
866	SEWER MAIN TELEVISION INSPECTION (30" AND LARGER)	LF	477							
901	CIPP 54" SANITARY SEWER PIPE (HOT WATER CURED), ALL DEPTHS	LF	177							
901	CIPP 66" SANITARY SEWER PIPE (HOT WATER CURED), ALL DEPTHS	LF	300							

NOTES:

- 1. QUANTITIES ARE ESTIMATED FROM MATCH LINE TO MATCH LINE.
- 2. EMBANKMENT MATERIAL MAY BE REQUIRED TO CONSTRUCT CONSTRUCTION EXIT (TY 1) AT LOCATION AND GRADE SHOWN. EMBANKMENT PLACEMENT AND REMOVAL SHALL BE CONSIDERED SUBSIDIARY TO BID ITEMS 506 6020 AND 506 6024; CONSTRUCTION EXITS (INSTALL) (TY 1), CONSTRUCTION EXITS (REMOVE).
- 3. CONTRACTOR SHALL FIELD LOCATE AND PROTECT EXISTING UTILITIES DURING CONSTRUCTION ACTIVITIES. DAMAGE COSTS INCURRED RESULTING FROM THEIR ACTIVITIES SHALL BE BORNE BY THE CONTRACTOR.
- 4. IF NEEDED FOR ACCESS, CONTRACTOR SHALL REMOVE, PROTECT, AND REINSTALL JUNCTION BOX 1 LID AND MH31664 CONE (NSPI).
- IF USING RECYCLED WATER LINE FOR CONSTRUCTION ACTIVITIES CONTRACTOR SHALL COORDINATE WITH SAWS PRIOR TO USE AND SHALL USE EXISTING APPURTENANCES.

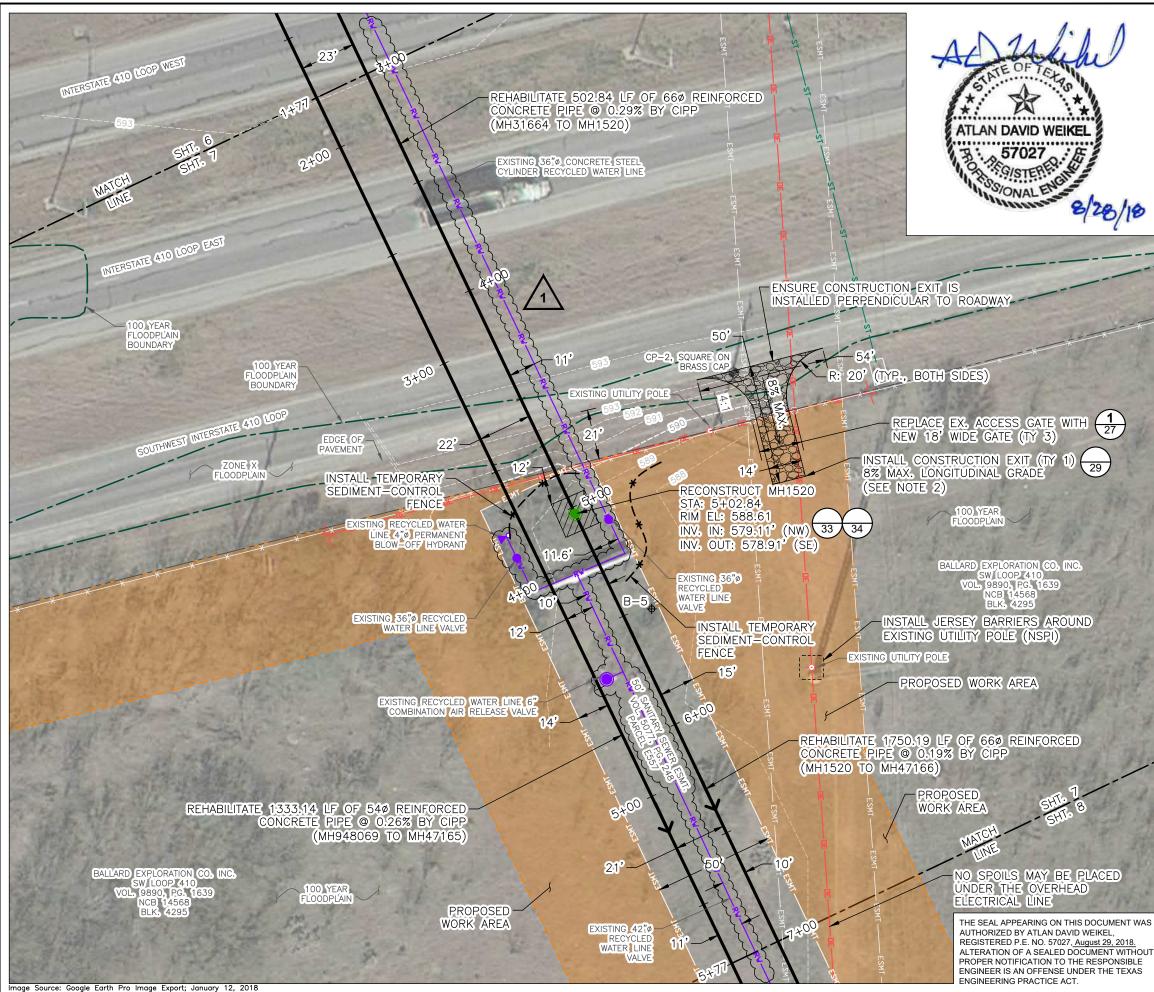
THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY ATLAN DAVID WEIKEL, REGISTERED P.E. NO. 57027, <u>August 29, 2018</u>. ALTERATION OF A SEALED DOCUMENT WITHOUT PROPER NOTIFICATION TO THE RESPONSIBLE ENGINEER IS AN OFFENSE UNDER THE TEXAS ENGINEERING PRACTICE ACT.





Texas Engineering Firm F-131 Texas Survey Firm 10194320 1011 West County Line Road New Braunfels, Texas 78130 (P) 210/298.5030 (F) 830/626.3544 www.thydro.com TRIHYDRO PROJECT NO. 702-557-E00

TRIHTDRO PROJECT NO. 702-037-E00						
LEGEND						
PROP. CIPP REHAB		ISSUE F	OR ADDENDL	JM 1 FZ	ADW	8/28/2018
PROP. S-C FENCE	* ` [₀	ISSUE F	OR 100% PLA	NS RJ	ADW	8/23/2018
PROP. CONST. EXIT	<u>80803</u> N	D.	Revision	Draw	n Approved	Date
PROP. ACCESS ROAD			R	EVISIONS	;	
0,000,000	-ss		v v		WERSHI	ED
OH ELECTRICAL LINE	-RW	UC			RY SEWER)F 9
	I I	DEVELOP	ER: S	AN ANTONIO	WATER SYS	ГЕМ
	C	CONT.		BUDGET	PROJ.	
FENCE	s	SUBMITTI	ED			
PARCEL LINE	A	PPROVE	D			
EASEMENT LINE	ESMT	MAP No.				SHEET
SURFACE CONTOURS	590	SECT. No).		17-4546	6
	591 C	DR. rj	CK. ADW	JOB NO	. 17-4040	OF 37

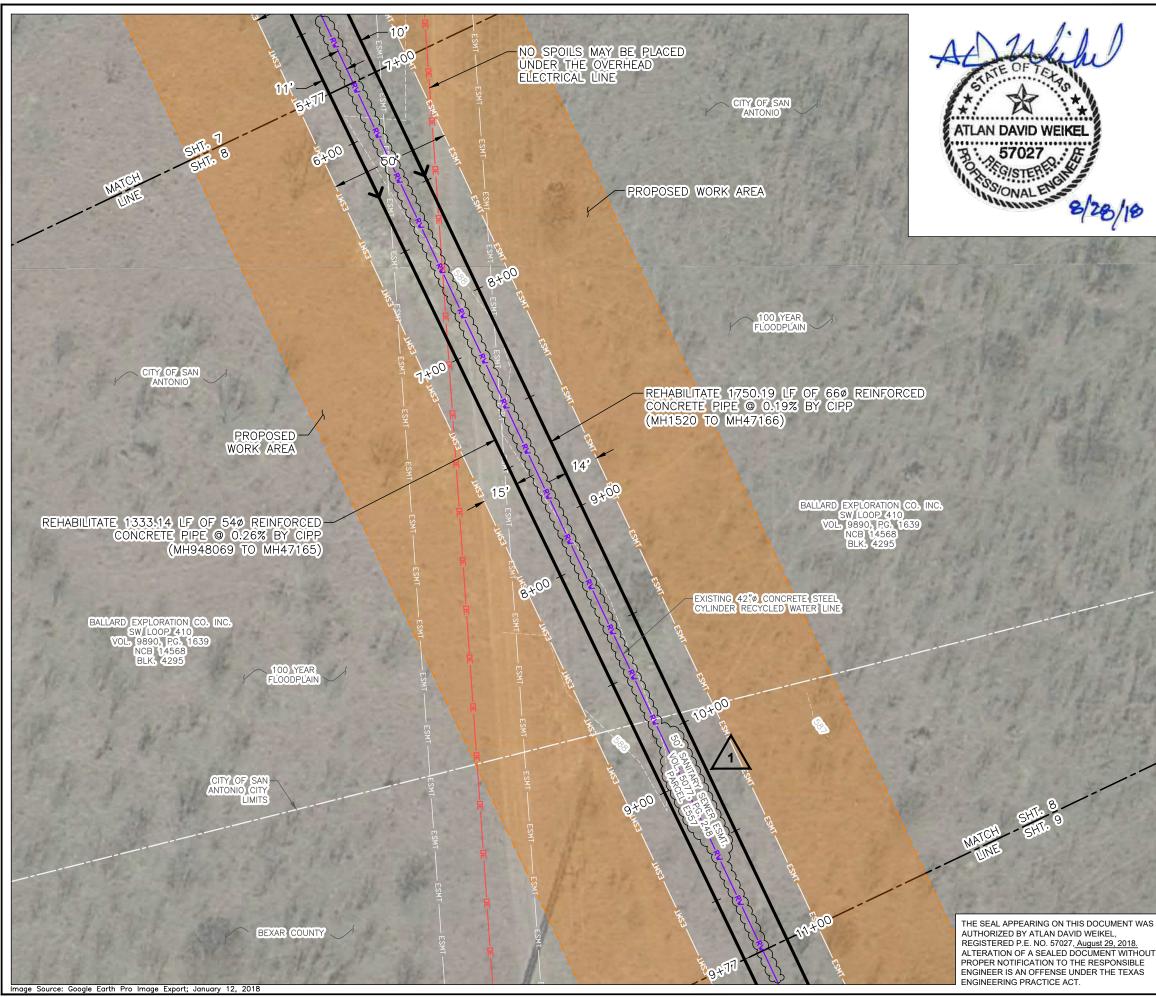


CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR STRUCTURAL DESIGN/GEOTECHNICAL/SAFETY/EQUIPMENT CONSULTANT, IF ANY, SHALL REVIEW THESE PLANS AND AVAILABLE GEOTECHNICAL INFORMATION AND THE ANTICIPATED INSTALLATION SITE(S) WITHIN THE PROJECT WORK AREA IN ORDER TO IMPLEMENT CONTRACTOR'S 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, O.S.H.A. 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 O.S.H.A. STANDARDS GOVERNING THE PRESENCE AND ACTIVITIES OF INDIVIDUALS WORKING IN AND AROUND TRENCH EXCAVATION.

	ESTIMATED QUANTITIES									
ITEM	DESCRIPTION	UNIT	EST.	FINAL						
506	CONSTRUCTION EXITS (INSTALL) (TY 1)	SY	97							
506	CONSTRUCTION EXITS (REMOVE)	SY	97							
520	HYDROMULCHING	SY	45							
540	TEMPORARY SEDIMENT-CONTROL FENCE	LF	105							
550	TRENCH EXCAVATION SAFETY PROTECTION	LF	80							
552	18' GATE (TY 3)	EA	1							
855	RECONSTRUCTION OF EXISTING MANHOLES	EA	1							
866	SEWER MAIN TELEVISION INSPECTION (30" AND LARGER)	LF	800							
901	CIPP 54" SANITARY SEWER PIPE (HOT WATER CURED), ALL DEPTHS	LF	400							
901	CIPP 66" SANITARY SEWER PIPE (HOT WATER CURED), ALL DEPTHS	LF	400							

- QUANTITIES ARE ESTIMATED FROM MATCH LINE TO MATCH LINE.
- 2. EMBANKMENT MATERIAL MAY BE REQUIRED TO CONSTRUCT CONSTRUCTION EXIT (TY 1) AT LOCATION AND GRADE SHOWN. EMBANKMENT PLACEMENT AND REMOVAL SHALL BE CONSIDERED SUBSIDIARY TO BID ITEMS 506 6020 AND 506 6024; CONSTRUCTION EXITS (INSTALL) (TY 1), CONSTRUCTION EXITS (REMOVE).
- CONTRACTOR SHALL FIELD LOCATE AND PROTECT EXISTING 3. UTILITIES DURING CONSTRUCTION ACTIVITIES. DAMAGE COSTS INCURRED RESULTING FROM THEIR ACTIVITIES SHALL BE BORNE BY THE CONTRACTOR.
- IF USING RECYCLED WATER LINE FOR CONSTRUCTION ACTIVITIES 4 CONTRACTOR SHALL COORDINATE WITH SAWS PRIOR TO USE AND SHALL USE EXISTING APPURTENANCES.

SCALE: 1" = 40'							
LEGEND	A	ISSUE FOR ADDENDUM 1		FZ	ADW	8/28/2018	
	0	ISSUE FOR 100% PLANS		RJ	ADW	8/23/2018	
PROP. CIPP REHAB	No.	Revi			Drawn	Approved	Date
PROP. S-C FENCE			R	EVIS	SIONS		
PROP. CONST. EXIT			V		T SEW PACKA	/ERSHE	ED
OH ELECTRICAL LINE DE RECYC. WATER LINE RV			E			SEWER PLAN 2 C)F 9
CONC. BOX CULVERT		EVELOPER:	S			ATER SYS	ГЕМ
FLOODPLAIN — – —	CC	DNT.		BU	DGET PI	ROJ.	
FENCE —X—X—	รเ	JBMITTED_					
PARCEL LINE	AP	PROVED _					
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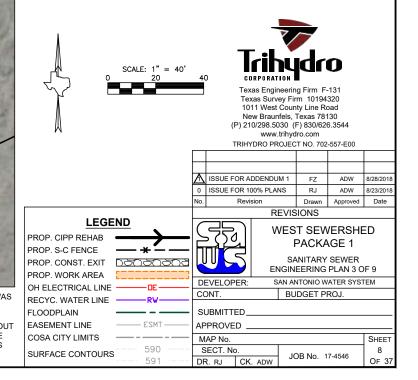
TRENCH EXCAVATION SAFETY PROTECTION:

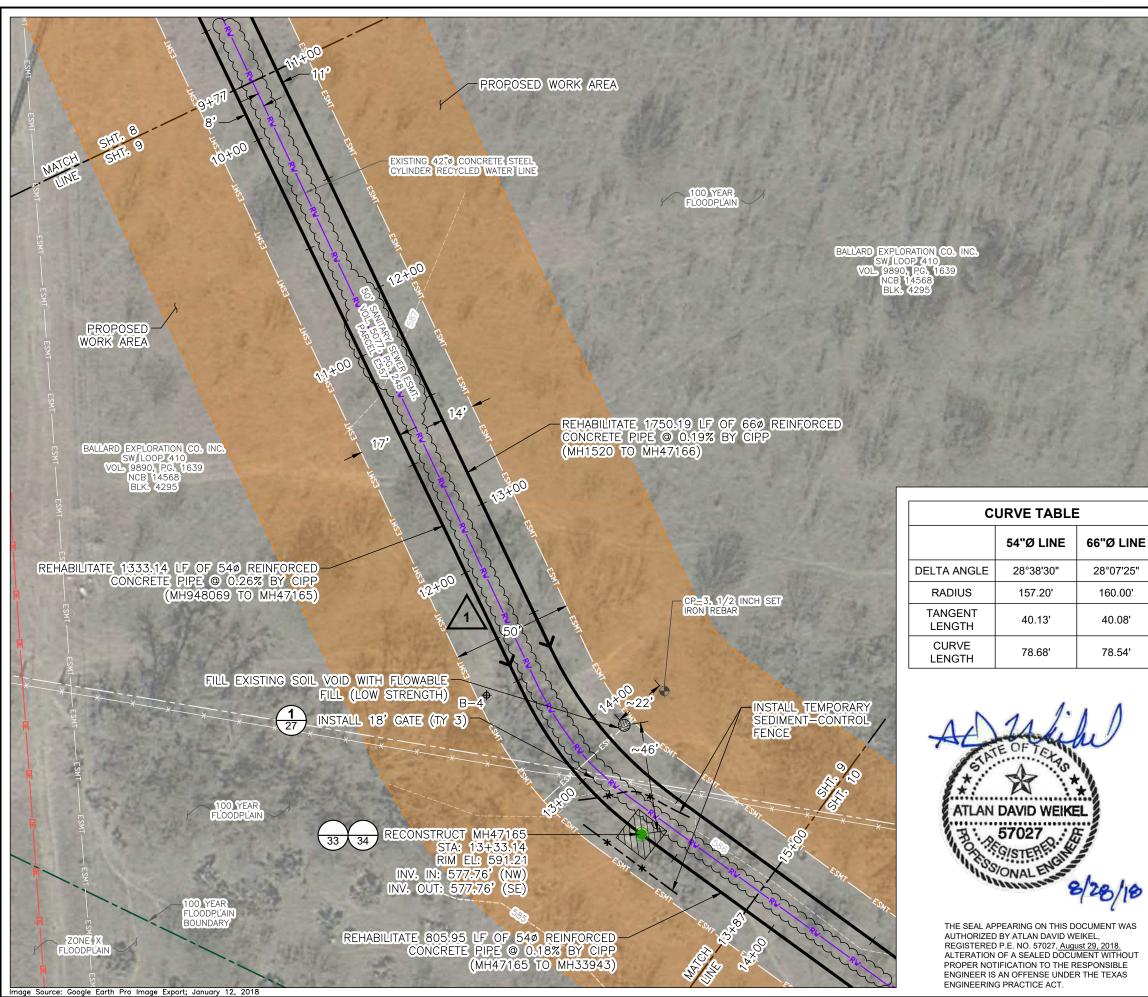
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ESTIMATED QUANTITIES

ITEM	DESCRIPTION	UNIT	EST.	FINAL
866	SEWER MAIN TELEVISION INSPECTION (30" AND LARGER)	LF	800	
901	CIPP 54" SANITARY SEWER PIPE (HOT WATER CURED), ALL DEPTHS	LF	400	
901	901 CIPP 66" SANITARY SEWER PIPE (HOT WATER CURED), ALL DEPTHS		400	

- 1. QUANTITIES ARE ESTIMATED FROM MATCH LINE TO MATCH LINE.
- 2. CONTRACTOR SHALL FIELD LOCATE AND PROTECT EXISTING UTILITIES DURING CONSTRUCTION ACTIVITIES. DAMAGE COSTS INCURRED RESULTING FROM THEIR ACTIVITIES SHALL BE BORNE BY THE CONTRACTOR.



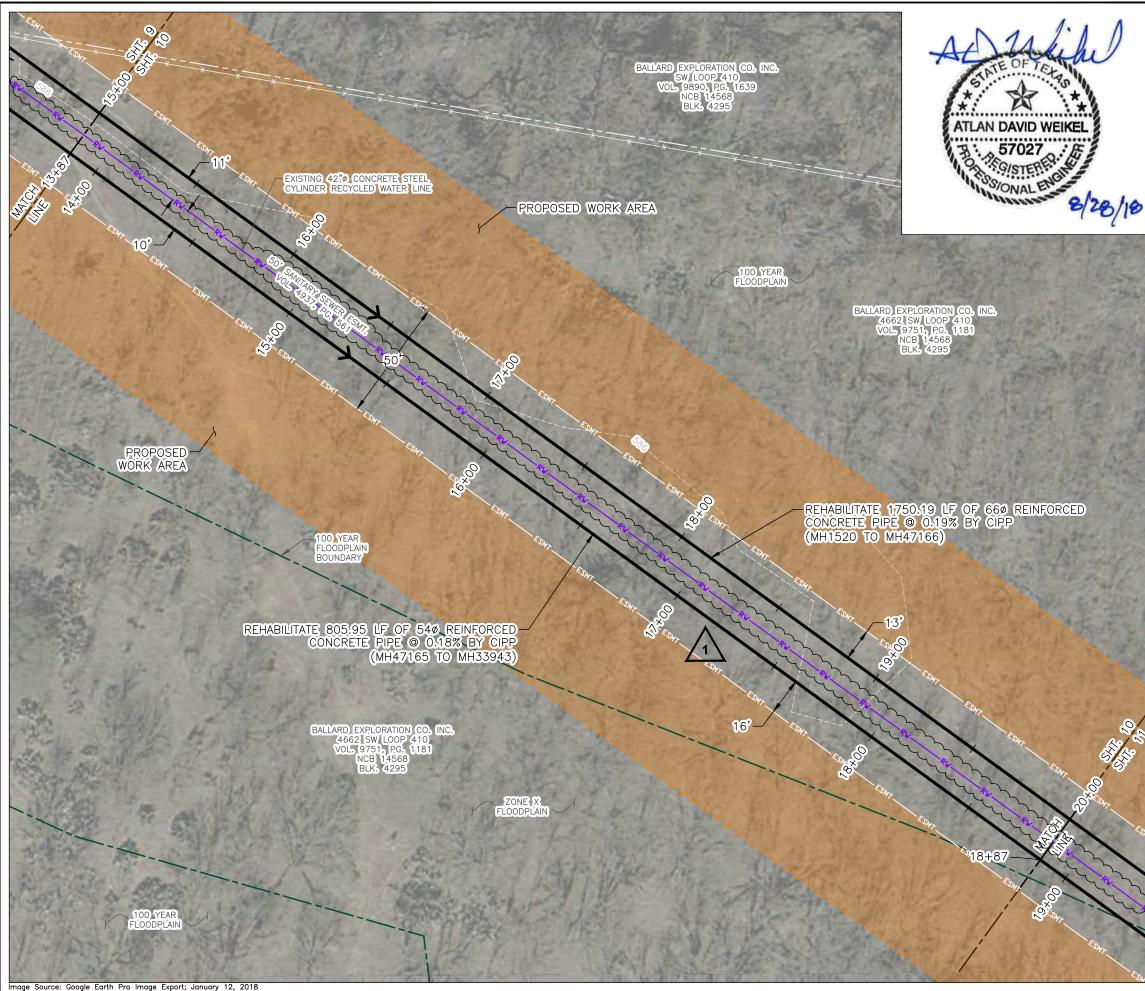


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	ESTIMATED QUANTITIES									
ITEM	DESCRIPTION	UNIT	EST.	FINAL						
413	FLOWABLE FILL (LOW STRENGTH)	CY	9							
520	HYDROMULCHING	SY	45							
540	TEMPORARY SEDIMENT-CONTROL FENCE	LF	98							
550	TRENCH EXCAVATION SAFETY PROTECTION	LF	80							
552	18' GATE (TY 3)	EA	1							
855	RECONSTRUCTION OF EXISTING MANHOLES	EA	1							
866	SEWER MAIN TELEVISION INSPECTION (30" AND LARGER)	LF	810							
901	CIPP 54" SANITARY SEWER PIPE (HOT WATER CURED), ALL DEPTHS	LF	410							
901	CIPP 66" SANITARY SEWER PIPE (HOT WATER CURED), ALL DEPTHS	LF	400							

- 1. QUANTITIES ARE ESTIMATED FROM MATCH LINE TO MATCH LINE.
- 2. DATA SHOWN ON CURVE TABLE IS TAKEN FROM AS-BUILT DRAWINGS, CIRCA 1965. THE DATA IS SHOWN FOR REFERENCE DURING CURVE REHABILITATION AND MAY NOT MATCH EXACTLY WITH LENGTHS SHOWN ON SHEETS, WHICH WERE DERIVED FROM A COMBINATION OF FIELD SURVEY DATA AND AS-BUILT DRAWINGS.
- 3. CONTRACTOR SHALL FIELD LOCATE AND PROTECT EXISTING UTILITIES DURING CONSTRUCTION ACTIVITIES. DAMAGE COSTS INCURRED RESULTING FROM THEIR ACTIVITIES SHALL BE BORNE BY THE CONTRACTOR.
- 4. CONTRACTOR SHALL COORDINATE WITH PROPERTY OWNER PRIOR TO, AND DURING, GATE INSTALLATION.

SCALE: 1" = 40' 20 40 Texas Engineering Firm F-131 Texas Survey Firm 10194320 1011 West County Line Road New Braunfels, Texas 78130 (P) 210/278.6303 (F) 830/626.3544 www.trihydro.com TRIHYDRO PROJECT NO. 702-557-E00						
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	Δ	ISSUE FOR ADDENDUM	1 FZ	ADW	8/28/2018	
	0	ISSUE FOR 100% PLANS	RJ	ADW	8/23/2018	
LEGEND	No.	Revision	Drawn	Approved	Date	
PROP. CIPP REHAB		RE\	/ISIONS			
PROP. S-C FENCE		WE WE	EST SEW PACKA		ED	
PROP. BACKFILL			SANITARY)F 9	
	DE	EVELOPER: SAN	I ANTONIO W	ATER SYS	ГЕМ	
	СС	DNT.	BUDGET P	ROJ.		
FENCE	รเ	JBMITTED				
PARCEL LINE	AP	PROVED				
EASEMENT LINE ESMT	M	AP No.			SHEET	
SURFACE CONTOURS 590	S	ECT. No.	105.11		9	
591	DF	R. RJ CK. ADW	JOB No. 1	7-4546	OF 37	



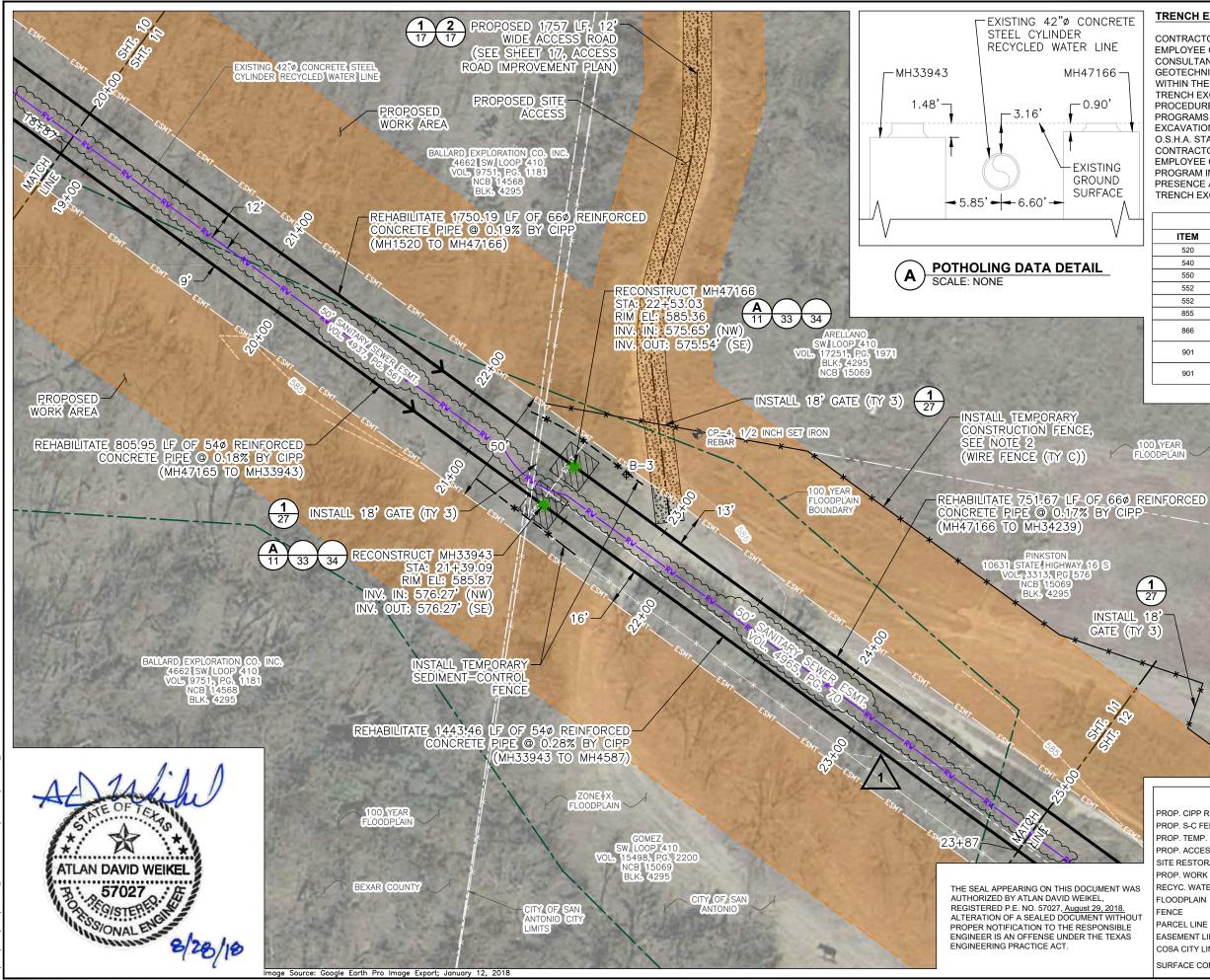
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	ESTIMATED QUANTITIES									
ITEM	DESCRIPTION	UNIT	EST.	FINAL						
866	SEWER MAIN TELEVISION INSPECTION (30" AND LARGER)	LF	1000							
901	CIPP 54" SANITARY SEWER PIPE (HOT WATER CURED), ALL DEPTHS	LF	500							
901	CIPP 66" SANITARY SEWER PIPE (HOT WATER CURED), ALL DEPTHS	LF	500							

NOTES:

- 1. QUANTITIES ARE ESTIMATED FROM MATCH LINE TO MATCH LINE.
- 2. CONTRACTOR SHALL FIELD LOCATE AND PROTECT EXISTING UTILITIES DURING CONSTRUCTION ACTIVITIES. DAMAGE COSTS INCURRED RESULTING FROM THEIR ACTIVITIES SHALL BE BORNE BY THE CONTRACTOR.

THE SEAL APPEARING ON THIS DOCUM AUTHORIZED BY ATLAN DAVID WEIKEL, REGISTERED P.E. NO. 57027, <u>August 29,</u> ALTERATION OF A SEALED DOCUMENT PROPER NOTIFICATION TO THE RESPOI ENGINEER IS AN OFFENSE UNDER THE ENGINEERING PRACTICE ACT.	2018 WIT	<u>B.</u> HOUT BLE	CO	RPORAT		dr	0	
Texas Engineering Firm F-131 Texas Survey Firm 10194320 1011 West County Line Road New Braunfels, Texas 78130 (P) 210/298.5030 (F) 830/626.3544 SCALE: 1" = 40' 0 20 40 TRIHYDRO PROJECT NO. 702-557-E00								
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FENCE		JBMITTE						
PARCEL LINE	AP	PROVE	<u> </u>					
EASEMENT LINE ESMT		AP No.						SHEET
SURFACE CONTOURS 590	_	ECT. No			JC)B No. 1	7-4546	10
591	DR	l. RJ	CK.	ADW	50			OF 37

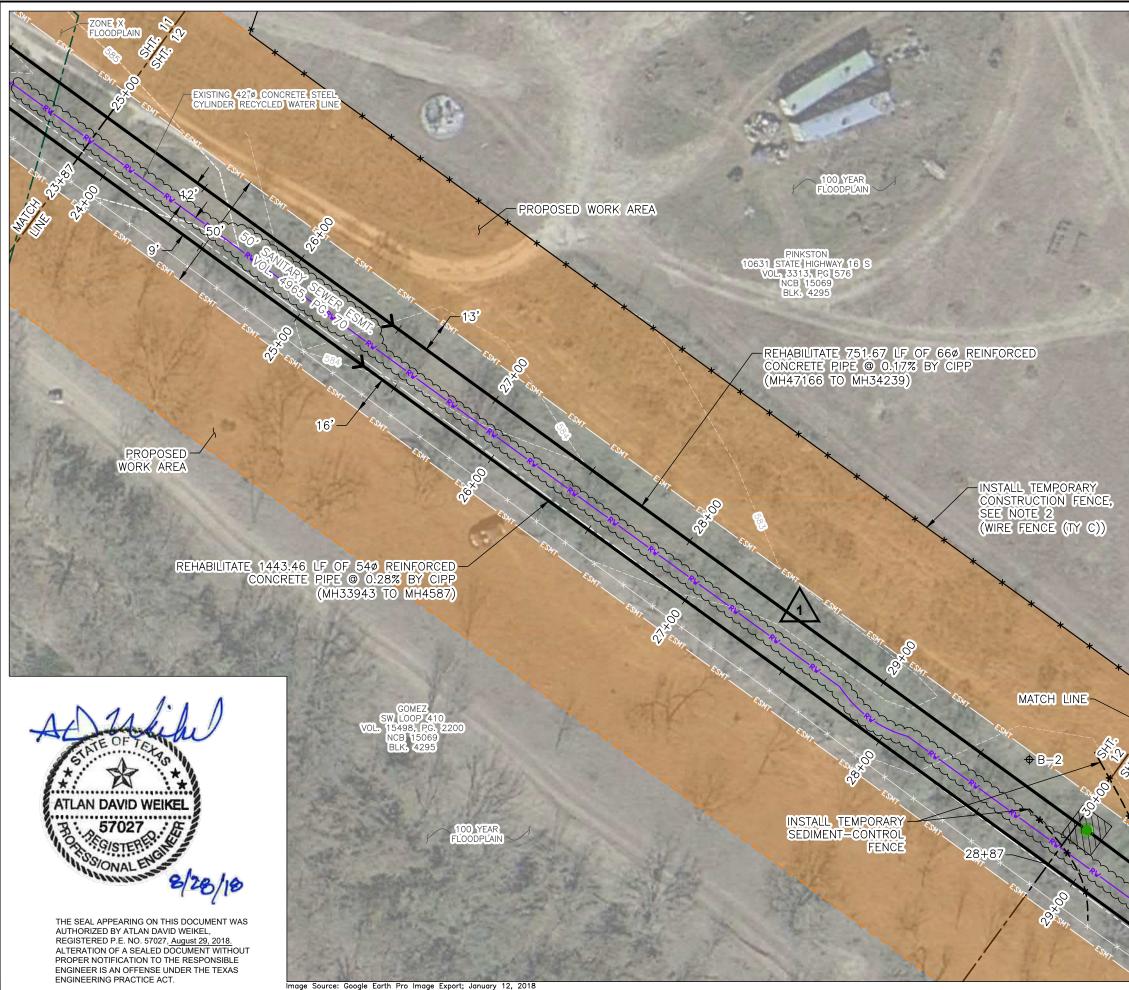


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ESTIMATED QUANTITIES									
ITEM	DESCRIPTION	UNIT	EST.	FINAL					
520	HYDROMULCHING	SY	96						
540	TEMPORARY SEDIMENT-CONTROL FENCE	LF	109						
550	TRENCH EXCAVATION SAFETY PROTECTION	LF	126						
552	WIRE FENCE (TY C)	LF	286						
552	18' GATE (TY 3)	EA	3						
855	RECONSTRUCTION OF EXISTING MANHOLES	EA	2						
866	SEWER MAIN TELEVISION INSPECTION (30" AND LARGER)	LF	1000						
901	CIPP 54" SANITARY SEWER PIPE (HOT WATER CURED), ALL DEPTHS	LF	500						
901	CIPP 66" SANITARY SEWER PIPE (HOT WATER CURED), ALL DEPTHS	LF	500						

- ALL QUANTITIES EXCEPT FOR THE GATES ARE ESTIMATED FROM MATCH LINE TO MATCH LINE. GATE QUANTITIES MATCH WHAT IS SHOWN ON THIS SHEET.
- CONTRACTOR SHALL REMOVE TEMPORARY 2 CONSTRUCTION FENCE AT PROJECT COMPLETION, AS DIRECTED BY THE ENGINEER. FENCE REMOVAL AND DISPOSAL SHALL BE CONSIDERED SUBSIDIARY TO BID ITEM 552 6003, WIRE FENCE (TY C).
- CONTRACTOR SHALL FIELD LOCATE AND PROTECT EXISTING UTILITIES DURING CONSTRUCTION ACTIVITIES. DAMAGE COSTS INCURRED RESULTING FROM THEIR ACTIVITIES SHALL BE BORNE BY THE CONTRACTOR.
- POTHOLING DATA SHOWN ON VIEW A OF THIS SHEET 4. WAS FIELD COLLECTED ON MAY 22, 2018.
- CONTRACTOR SHALL COORDINATE WITH PROPERTY 5 OWNER PRIOR TO, AND DURING, GATE INSTALLATION.

2	* *	SCALE: 1" = 40' 20			CORPORAT Texas Engir Texas Surv 1011 West New Braun P) 210/298.50	neering Firm ey Firm 101 County Line Ifels, Texas 030 (F) 830/ trihydro.com	F-131 94320 Road 78130 626.3544			
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- And	LEGE	<u>ND</u>	0	ISSUE F	OR 100% PLA	NS RJ	ADW	8/23/2018		
and the second second	PROP. CIPP REHAB	\rightarrow	No. Revision		Draw		Date			
Yan.	PROP. S-C FENCE	<u> </u>	REVIS		EVISIONS	SIONS				
The second se	PROP. TEMP. FENCE PROP. ACCESS ROAD SITE RESTORATION	──X──X	WE				ST SEWERSHED PACKAGE 1			
	PROP. WORK AREA				5		RY SEWER	DF 9		
WAS	RECYC. WATER LINE	RV	DE	EVELOP	ER: S	AN ANTONIC	WATER SYS	TEM		
3.	FLOODPLAIN		СС	DNT.		BUDGET	PROJ.			
HOUT	FENCE PARCEL LINE	^ <u> </u>	รเ	JBMITT	ED					
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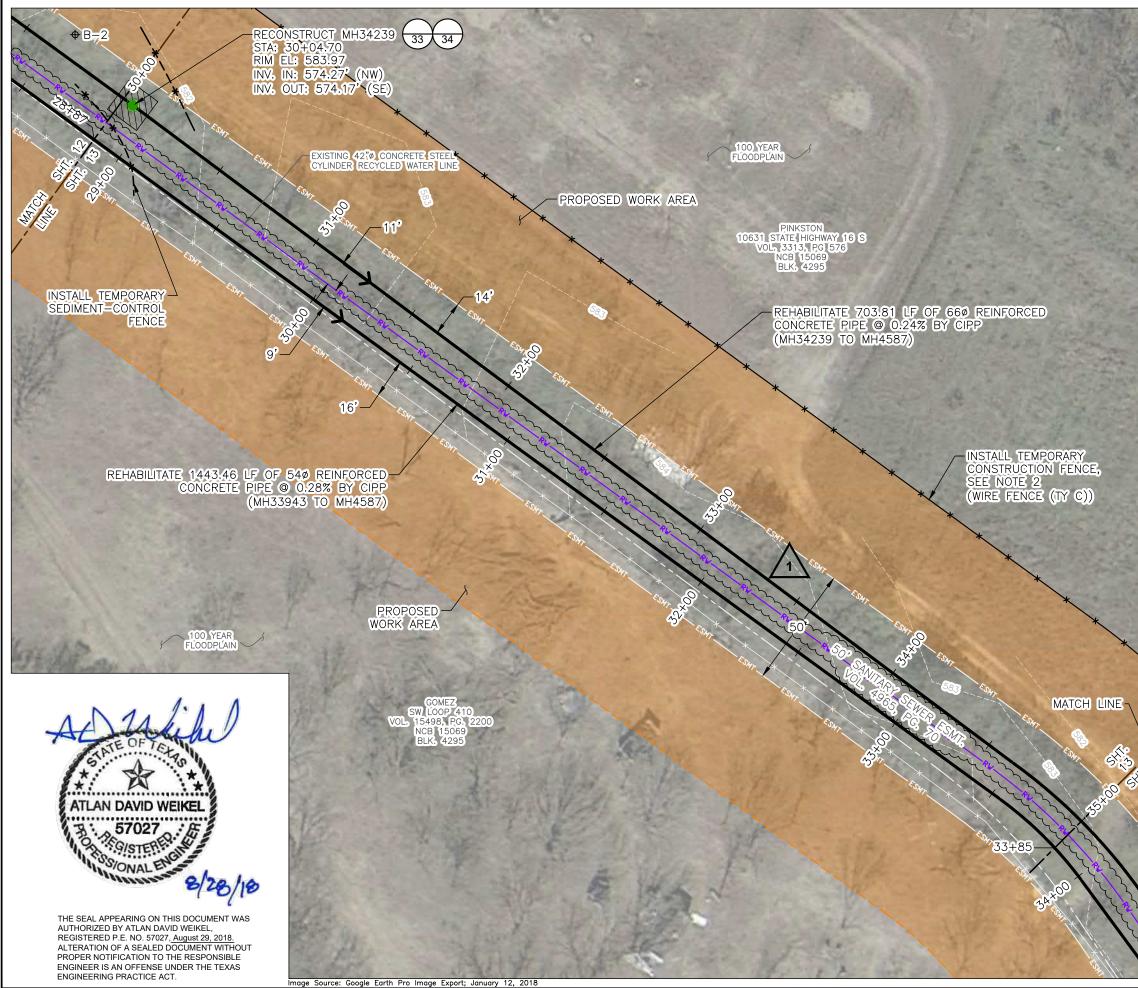


CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR STRUCTURAL DESIGN/GEOTECHNICAL/SAFETY/EQUIPMENT CONSULTANT, IF ANY, SHALL REVIEW THESE PLANS AND AVAILABLE GEOTECHNICAL INFORMATION AND THE ANTICIPATED INSTALLATION SITE(S) WITHIN THE PROJECT WORK AREA IN ORDER TO IMPLEMENT CONTRACTOR'S 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, O.S.H.A. 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 O.S.H.A. STANDARDS GOVERNING THE PRESENCE AND ACTIVITIES OF INDIVIDUALS WORKING IN AND AROUND TRENCH EXCAVATION.

ESTIMATED QUANTITIES										
ITEM	DESCRIPTION	UNIT	EST.	FINAL						
552	WIRE FENCE (TY C)	LF	512							
866	SEWER MAIN TELEVISION INSPECTION (30" AND LARGER)	LF	1000							
901	CIPP 54" SANITARY SEWER PIPE (HOT WATER CURED), ALL DEPTHS	LF	500							
901	CIPP 66" SANITARY SEWER PIPE (HOT WATER CURED), ALL DEPTHS	LF	500							

- 1. QUANTITIES ARE ESTIMATED FROM MATCH LINE TO MATCH LINE.
- CONTRACTOR SHALL REMOVE TEMPORARY CONSTRUCTION FENCE AT PROJECT COMPLETION, AS DIRECTED BY THE ENGINEER. FENCE REMOVAL AND DISPOSAL SHALL BE CONSIDERED SUBSIDIARY TO BID ITEM 552 6003, WIRE FENCE (TY C).
- 3. CONTRACTOR SHALL FIELD LOCATE AND PROTECT EXISTING UTILITIES DURING CONSTRUCTION ACTIVITIES. DAMAGE COSTS INCURRED RESULTING FROM THEIR ACTIVITIES SHALL BE BORNE BY THE CONTRACTOR.

SCALE: 1" = 40'	40 		CO Texa Tex 101 Ne P) 210 FRIHY	RPORAT as Engir as Surv: 11 West w Braun 0/298.50 www. DRO PR DDENDU 00% PLAI	ION neerin Coun fels, ⁻ 030 (I trihyd OJEC	g Firm F- m 10194 ty Line R. F) 830/62 Iro.com T NO. 702 FZ RJ	-131 320 5ad 130 6.3544	8/28/2018
LEGEND	No.		Revis		EVIS	Drawn SIONS	Approved	Date
PROP. CIPP REHAB PROP. S-C FENCE PROP. TEMP. FENCE			<u>ה</u>		F SA		/ERSHE AGE 1 SEWER PLAN 7 C	
RECYC. WATER LINE		EVELOP	ER:	S			ATER SYS	ТЕМ
FLOODPLAIN — – —		ONT.			BU	DGET P	ROJ.	
FENCE X	- si	JBMITT	ED_					
PARCEL LINE	- AF	PROVE	D _					
EASEMENT LINE ESMT		AP No.						SHEET
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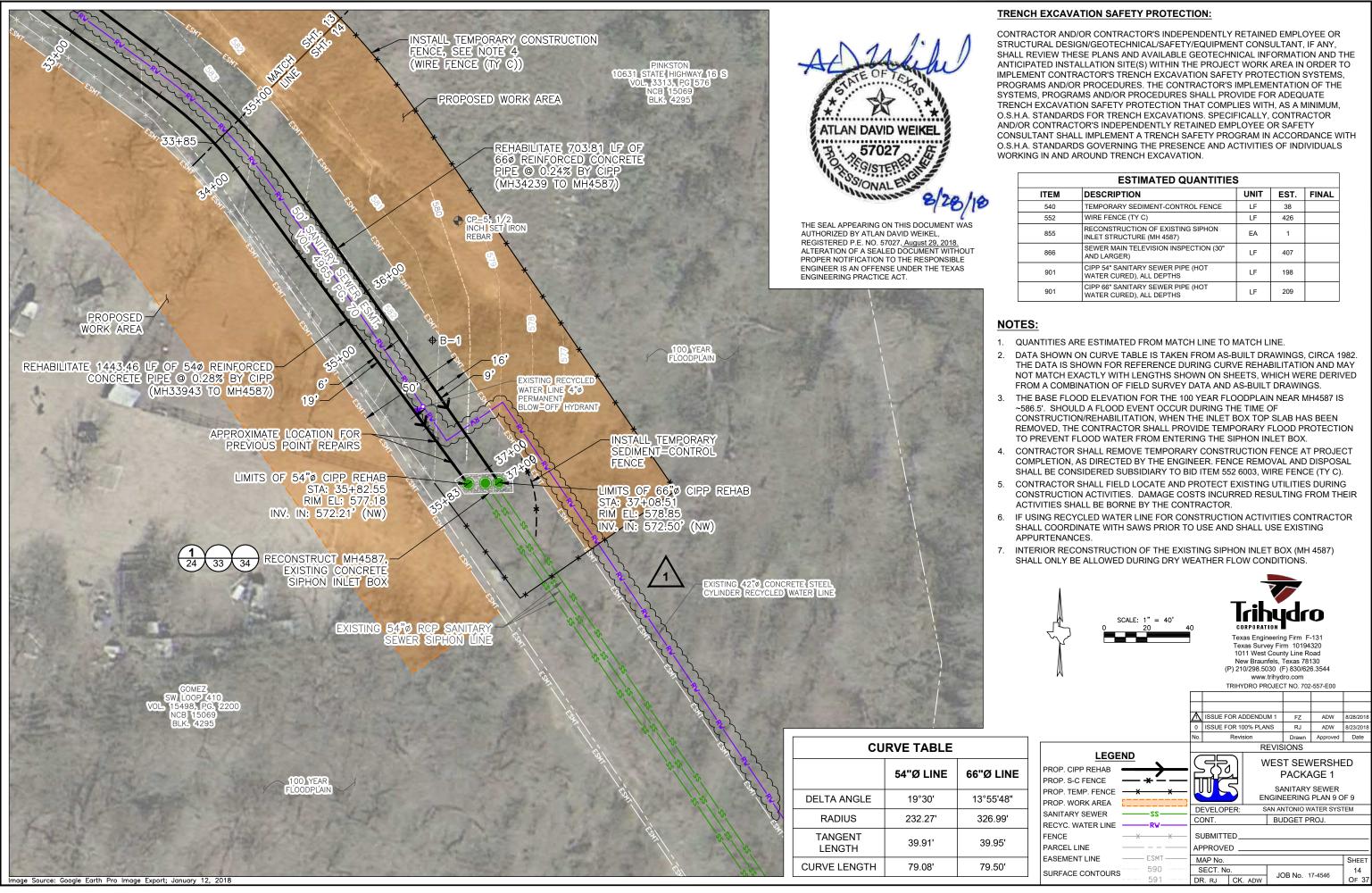


CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR STRUCTURAL DESIGN/GEOTECHNICAL/SAFETY/EQUIPMENT CONSULTANT, IF ANY, SHALL REVIEW THESE PLANS AND AVAILABLE GEOTECHNICAL INFORMATION AND THE ANTICIPATED INSTALLATION SITE(S) WITHIN THE PROJECT WORK AREA IN ORDER TO IMPLEMENT CONTRACTOR'S 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, O.S.H.A. 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 O.S.H.A. STANDARDS GOVERNING THE PRESENCE AND ACTIVITIES OF INDIVIDUALS WORKING IN AND AROUND TRENCH EXCAVATION.

ESTIMATED QUANTITIES									
ITEM	DESCRIPTION	UNIT	EST.	FINAL					
520	HYDROMULCHING	SY	45						
540	TEMPORARY SEDIMENT-CONTROL FENCE	LF	103						
550	TRENCH EXCAVATION SAFETY PROTECTION	LF	80						
552	WIRE FENCE (TY C)	LF	511						
855	RECONSTRUCTION OF EXISTING MANHOLES	EA	1						
866	SEWER MAIN TELEVISION INSPECTION (30" AND LARGER)	LF	998						
901	CIPP 54" SANITARY SEWER PIPE (HOT WATER CURED), ALL DEPTHS	LF	498						
901	CIPP 66" SANITARY SEWER PIPE (HOT WATER CURED), ALL DEPTHS	LF	500						

- 1. QUANTITIES ARE ESTIMATED FROM MATCH LINE TO MATCH LINE.
- 2. CONTRACTOR SHALL REMOVE TEMPORARY CONSTRUCTION FENCE AT PROJECT COMPLETION, AS DIRECTED BY THE ENGINEER. FENCE REMOVAL AND DISPOSAL SHALL BE CONSIDERED SUBSIDIARY TO BID ITEM 552 6003, WIRE FENCE (TY C).
- 3. CONTRACTOR SHALL FIELD LOCATE AND PROTECT EXISTING UTILITIES DURING CONSTRUCTION ACTIVITIES. DAMAGE COSTS INCURRED RESULTING FROM THEIR ACTIVITIES SHALL BE BORNE BY THE CONTRACTOR.

SCALE: 1" = 40'	40		Tex Te: 10 Ne P) 21	CRPORAT (as Engir (xas Surv 11 West 20/298.50 (0/298.50 (www.	neerin rey Fir Coun fels, 030 (l trihyd	g Firm F- m 10194 ty Line Ro Texas 78 F) 830/620 Iro.com T NO. 702	131 320 bad 130 5.3544	
		ISSUE F	-			FZ RJ	ADW ADW	8/28/2018 8/23/2018
	No.	155UE F	Revi		115	Drawn	ADW	8/23/2018 Date
	REVISIONS							
LEGEND PROP. CIPP REHAB PROP. S-C FENCE PROP. TEMP. FENCE X SITE RESTORATION					F SA		/ERSHE AGE 1 SEWER PLAN 8 C	
PROP. WORK AREA	DEVELOPER: SAN ANTONIO WATER SYSTEM					EM		
RECYC. WATER LINERW	СС	ONT.			BU	DGET PI	ROJ.	
	sı	JBMITT	ED					
		PROVE						
EASEMENT LINE ESMT		AP No.						SHEET
590	SECT. No.					13		
SURFACE CONTOURS	DF	R. RJ	СК	. ADW	JOB No. 17-4546			OF 37



ESTIMATED QUANTITIES										
ITEM	DESCRIPTION	UNIT	EST.	FINAL						
540	TEMPORARY SEDIMENT-CONTROL FENCE	LF	38							
552	WIRE FENCE (TY C)	LF	426							
855	RECONSTRUCTION OF EXISTING SIPHON INLET STRUCTURE (MH 4587)	EA	1							
866	SEWER MAIN TELEVISION INSPECTION (30" AND LARGER)	LF	407							
901	CIPP 54" SANITARY SEWER PIPE (HOT WATER CURED), ALL DEPTHS	LF	198							
901	CIPP 66" SANITARY SEWER PIPE (HOT WATER CURED), ALL DEPTHS	LF	209							