

2019 SMP Package II (Lyons St., Sligo St.) Solicitation Number: CO-00203 Job No.: Water – 18-5009 Sewer – 18-5509

ADDENDUM 1

August 2, 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. Replace the bid proposal with attached bid proposal. The quantity for Item 25w - REMOVAL, TRANSPORTATION, AND DISPOSAL OF AC PIPE was revised from 14 L.F. to 29 L.F.

CHANGES TO THE PLANS

1. Replace the drawing plan set with the attached drawing plan set. Sheet 7 of 19 was revised to show the existing 6" CI water main along N. Elmendorf Street to be located on the west side of N. Elmendorf Street.

END OF ADDENDUM

This Addendum, including these <u>one</u> (1) page, is <u>twenty one</u> (21) pages with attachments in its entirety. Attachments:

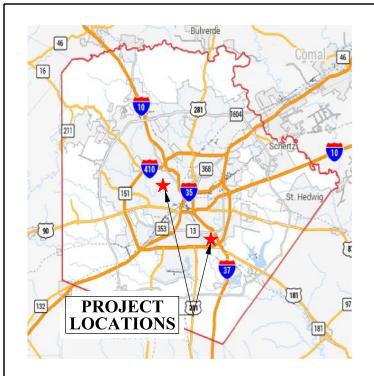
- 1. Water Plan Set
- 2. Bid Proposal (water and sewer)

Kum Wing Chan, P.E. Unintech Consulting Engineers



SAWS
2019 SMP Package II(LYONS ST., SLIGO ST)
SAWS JOB NO: 18-5009; 18-5509

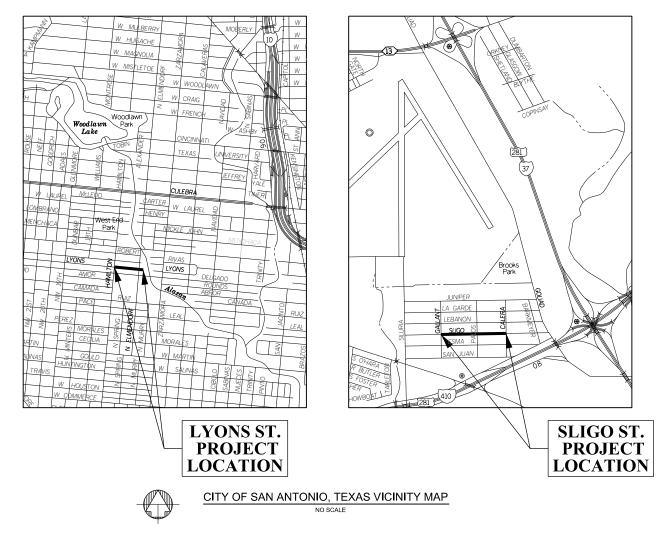
Item No.	Spec. No.	Description	Unit	Quantity	Unit Price	Total Price
1 w	103.3	REMOVE CONCRETE SIDEWALKS & DRIVEWAYS (3,000 SF < X < 10,000 SF)	SF	308		
2 w	203.1	TACK COAT	SY	108		
3 w	205.2	HOT MIX ASPHALTIC PAVEMENT, TYPE B (10" COMP. DEPTH)	SY	850		
4 w	205.4	HOT MIX ASPHALTIC PAVEMENT, TYPE D (2" COMP. DEPTH) (< 5000 SY)	SY	1083		
5 w	502.1	CONCRETE SIDEWALKS (< 150 SY)	LS	34		
6 w	550.0	TRENCH EXCAVATION SAFETY PROTECTION	L.F.	2091		
7 w	818.0	8" PVC WATERLINE	L.F.	2091		
8 w	824.0	RELAY 3/4" SHORT SERVICE	EA.	23		
9 w	824.0	RELAY 3/4" LONG SERVICE	EA.	26		
10 w	824.0	RELAY 1" SHORT SERVICE	EA.	1		
11 w	824.0	NEW 3/4" SHORT UNMETERED SERVICE	EA.	12		
12 w	824.0	NEW 3/4" LONG UNMETERED SERVICE	EA.	15		
13 w	824.0	RELOCATE 3/4" LONG SERVICE	EA.	4		
14 w	824.5	CUSTOMER SHUT-OFF VALVE	EA.	7		
15 w	828.0	8" GATE VALVES	EA.	7		
16 w	833.0	EXISTING METER AND NEW METER BOX RELOCATION	EA.	7		
17 w	833.0	METER BOX	EA.	72		
18 w	834.1	FIRE HYDRANT	EA.	3		
19 w	836.0	PIPE FITTINGS, ALL SIZES AND TYPES	TON	2		
20 w	840.0	6" WATER TIE-INS	EA.	6		
21 w	841.0	HYDROSTATIC TESTING	EA.	3		
22 w	844.0	2" BLOWOFF, PERMANENT	EA.	1		
23 w	844.0	2" BLOWOFF, TEMPORARY	EA.	6		
24 w	COSA 413	FLOWABLE FILL	C.Y.	76		
25 w	3000.0	REMOVAL, TRANSPORTATION, AND DISPOSAL OF AC PIPE	L.F.	29		
					r	
1 s	203.1	TACK COAT	GAL	73		
2 s	205.2	HOT MIX ASPHALTIC PAVEMENT, TYPE B (10" COMP. DEPTH)	S.Y.	348		
3 s	205.4	HMAC TYPE "D" (2" COMP. DEPTH)(<5000 S.Y.)	S.Y.	443		
4 s	205.4	HOT MIX ASPHALTIC PAVEMENT- TYPE "D" (3" COMP. DEPTH)	S.Y.	284		
5 s	208.1	SALVAGING, HAULING & STOCKPILING RECLAIMABLE ASPHALTIC PAVEMENT (3")	S.Y.	284		
6 s	550.0	TRENCH EXCAVATION SAFETY PROTECTION	L.F.	855		
7 s	848.0	8" PVC SANITARY SEWER LINE. (SDR 26, ASTM 2241, 150 PSI)	L.F.	855		
8 s	852.1	SANITARY SEWER MANHOLE (0' - 6')	EA.	4		
9 s	852.3	EXTRA DEPTH MANHOLES (> 6')	V.F.	9		
10 s	854.0	SANITARY SEWER LATERALS (SDR 26, ASTM 2241, 150 PSI)	L.F.	737		
11 s	854.1	TWO-WAY SANITARY SEWER CLEAN-OUT	EA.	50		
12 s	860.0	VERTICAL STACKS	V.F.	114	1	
13 s	864.0	BYPASS PUMPING	L.S.	1	1	
14 s	866.0	SEWER MAIN PRE-TELEVISING (8"-15")	L.F.	855	1	
15 s	866.0	SEWER MAIN TELEVISION INSPECTION (8" - 15")	L.F.	855		
16 s	COSA 413	FLOWABLE FILL	C.Y.	21		
			1 = -		T	
	530.1	BARRICADE, SIGNS AND TRAFFIC HANDLING(Lyons St)	EA.	1		
	530.1	BARRICADE, SIGNS AND TRAFFIC HANDLING(Sligo St)	EA.	1		
	100.1	MOBILIZATION	LS	≤10%		
	100.1	PREPARATION OF ROW	LS	<u>_</u> 10% ≤5%		
					L BID PRICE	





SAWS WATER JOB NO: 18-5009

2019 SMP PACKAGE II (LYONS ST., SLIGO ST.)



7/27/2018 2:38:30 PM rpillanari





Second Contraction and Contraction

INDEX OF DRAWINGS

BARRICADE AND CONSTRUCTION STANDARDS II

BARRICADE AND CONSTRUCTION STANDARDS III

WORK CLEARANCE ZONES FOR CPS UTILITIES

S	HEET N	D .	SHEET TITLE	A.T.B.	ASPHALT TREATED BASE	NO.	NUMBER
	05	10		BLDG	BUILDING	N.S.P.I.	NO SEPARATE PAY ITEM
1	OF	19	WATER WORK COVER SHEET	B.M.P.'S	BEST MANAGEMENT PRACTICES	N. T. S.	NOT TO SCALE
2	OF	19	INDEX OF DRAWINGS, LEGEND, AND ABBREVIATIONS	B.W.	BOTH WAYS	0.C.	ON CENTER
				C.I.	CAST-IRON	0.D.	OUTSIDE DIAMETER
3	OF	19	WATER GENERAL NOTES	CPS	CITY PUBLIC SERVICE	P.C.	POINT OF CURVATURE
4	OF	19	SUMMARY OF QUANTITIES	C.S.C.	CONCRETE STEEL CYLINDER PIPE	P.E.	POLISHED END
7	OF	19	SOMMART OF COALUMES	CU	COPPER	P.I.	POINT OF INTERSECTION
5	OF	19	LYONS ST. WATER LAYOUT AND CONTROL PLAN	D.I.	DUCTILE IRON PIPE	P.P.	POWER POLE
				DIA.	DIAMETER	PSI	POUNDS PER SQUARE INCH
6	OF	19	LYONS ST. WATER PLAN STA. 0+00 - 4+00	0.H.E.	OVERHEAD ELECTRIC LINE	Ρ.Τ.	POINT OF TANGENCY
7	OF	19	LYONS ST. WATER PLAN STA. 4+00 - 8+46.93	F.H.	FIRE HYDRANT	RJ	RESTRAINT JOINT
	01	10		FND.	FOUND	R.O.W.	RIGHT-OF-WAY
8	OF	19	SLIGO ST. WATER LAYOUT AND CONTROL PLAN	F.O.C.	FIBER OPTIC CABLE	S.A.W.S.	SAN ANTONIO WATER SYSTEM
				G	NATURAL GAS	SBC	SOUTHWESTERN BELL TELEPHONE COMPANY
9	OF	19	SLIGO ST. WATER PLAN STA. 0+00 - 4+00	G.I.	GALVANIZED IRON	SCH	SCHEDULE
10	OF	19	SLIGO ST. WATER PLAN STA. 4+00 - 8+00	IAW	IN ACCORDANCE WITH	SD	STORM DRAIN
				INV.	INVERT	S.S.	SANITARY SEWER
11	OF	19	SLIGO ST. WATER PLAN STA. 8+00 - 10+19.20	I.P.	IRON PIN	STA.	STATION
10	05	10		IRRG	IRRIGATION	STD.	STANDARD
12	OF	19	TREE PRESERVATION	L.F.	LINEAR FEET	THD,	THREAD
13	OF	19	MISCELLANEOUS CONSTRUCTION STANDARDS	L.L.	LAID LENGTH	UE	UNDERGROUND ELECTRIC
				MIN.	MINIMUM	UT	UNDERGROUND TELEPHONE
14	OF	19	WHEELCHAIR RAMP STANDARDS	MH.	MANHOLE	W	POTABLE WATER
15	OF	19	BARRICADE AND CONSTRUCTION STANDARDS (SA)	M.J.	MECHANICAL JOINT		
15	UF	19	BARRICADE AND CONSTRUCTION STANDARDS (SA)				
16	OF	19	BARRICADE AND CONSTRUCTION STANDARDS I				

WATER LEGEND

G	EXISTING GAS	—SS —	EXISTING SEWER MAIN
— т —	EXISTING TELEPHONE LINE		PIPE TO BE REMOVED OR ABA
SD	EXISTING STORM DRAIN	SD	PROPOSED STORM DRAIN
— w —	EXISTING WATER MAIN		PROPOSED WATER LINE
wv)	EXISTING VALVE	— •—	PROPOSED WATER VALVE
—— E ——	EXISTING OVERHEAD ELECTRICAL LINE		PROPOSED SANITARY SEWER
0	EXISTING POWER POLE	0	PROPOSED TWO-WAY SEWER C
\odot	EXISTING TREES		PROPOSED SANITARY SEWER M

17 OF

19 OF

OF

18

19

19

19

LIST OF ABBREVIATIONS



BANDONED	LEGEND PROP. WATER MAIN EXIST. WATER MAIN GAS MAIN				
	SANITARY SEWER	NO. D/	ATE	REVISION	APP.
	STORM SEWERS0 ²⁴ UTILITY POLE LINE ELECTRIC CABLE TELEPHONE CABLE DUAL BRANCH SERV NEW UNMETERD SERVICE:		CH E 2431 E. Eva	NGINEER ns Road , Texas 78259	NSULTING S, INC. IBPE Reg. No. F-5499 Fax: (210) 641-8279 www.unIntech.com
CLEANOUT	3/4" SINGLE 1" DUAL SERVICE RECONNECT:	55	20		AGE II (LYONS ST., Go ST.) Er work
MANHOLE	3/4" 1" OR LARGER SERVICE RELAY: 3/4"				RAWINGS, BBREVIATION
	1" OR LARGER	DEVELOPER:		co	ONT.
	SERVICE RELOCATE: 3/4" 1" OR LARGER	SUBMITTED			
	RELOCATE METER	MAP No.	148544	BL	JDGET PROJ. 33
	NEW SERVICE: 3/4"	95% SUBMITT	AL PROJECT	NO. 18-5009	DATE: 7/27/2018
	1" OR LARGER	DRAWN: RP	DESIGN: MP	CHECK: KWC	SHEET NO : 2 OF 19

GENERAL WATER NOTES:

- 1. ALL MATERIALS AND CONSTRUCTION PROCEDURES WITHIN THE SCOPE OF THIS CONTRACT SHALL BE APPROVED BY THE SAN ANTONIO WATER SYSTEM (SAWS) AND COMPLY WITH THE PLANS, SPECIFICATIONS, GENERAL CONDITIONS AND WITH THE FOLLOWING AS APPLICABLE:
 - A. CURRENT TEXAS COMMISSION ON ENVIRONMENTAL QUALITY (TCEQ) "DESIGN CRITERIA FOR DOMESTIC WASTEWATER SYSTEM", TEXAS ADMINISTRATIVE CODE (TAC) TITLE 30 PART 1 CHAPTER 217 AND "PUBLIC DRINKING WATER", TAC TITLE 30 PART 1 CHAPTER 290
 - B. CURRENT TXDOT "STANDARD SPECIFICATIONS FOR CONSTRUCTION OF HIGHWAYS, STREETS AND DRAINAGE.
 - C. CURRENT "SAN ANTONIO WATER SYSTEM STANDARD SPECIFICATIONS FOR WATER AND SANITARY SEWER CONSTRUCTION.
 - CURRENT CITY OF SAN ANTONIO "STANDARD SPECIFICATIONS FOR CONSTRUCTION." . CURRENT CITY OF SAN ANTONIO "UTILITY EXCAVATION CRITERIA MANUAL" (UECM).
- 2. THE CONTRACTOR SHALL OBTAIN SAWS STANDARD DETAILS FROM SAWS WEBSITE. http://www.saws.org/business_center/specs. UNLESS OTHERWISE NOTED WITHIN DESIGN
- 3. THE CONTRACTOR IS TO NOTIFY AND MAKE ARRANGEMENTS WITH THE SAWS CONSTRUCTION INSPECTION DIVISION AT 210-233-3500, AND PROVIDE NOTIFICATION PROCEDURES THE CONTRACTOR WILL USE TO NOTIFY AFFECTED HOME RESIDENTS AND/OR PROPERTY OWNERS 72 HOURS PRIOR TO EXCAVATION
- 4. LOCATIONS AND DEPTHS OF EXISTING UTILITIES AND SERVICE LATERALS SHOWN ON THE PLANS ARE UNDERSTOOD TO BE APPROXIMATE. ACTUAL LOCATIONS AND DEPTHS MUST BE FIELD VERIFIED BY THE CONTRACTOR AT LEAST 1 WEEK PRIOR TO CONSTRUCTION. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO LOCATE UTILITY SERVICE LINES AS REQUIRED FOR CONSTRUCTION AND TO PROTECT THEM DURING CONSTRUCTION AT NO COST TO SAWS
- 5. THE CONTRACTOR SHALL VERIFY THE EXACT LOCATION OF UNDERGROUND UTILITIES AND DRAINAGE STRUCTURES AT LEAST 1-2 WEEKS PRIOR TO CONSTRUCTION WHETHER SHOWN ON PLANS OR NOT. PLEASE ALLOW UP TO 7 BUSINESS DAYS FOR LOCATES REQUESTING PIPE LOCATION MARKERS ON SAWS FACILITIES. THE FOLLOWING CONTACT INFORMATION ARE SUPPLIED FOR VERIFICATION PURPOSES:

SAN ANTONIO WATER SYSTEM: SAWS UTILITY LOCATES: http://www.saws.org/Service/Locates COSA DRAINAGE 1-210-207-8048 COSA TRAFFIC SIGNAL OPERATIONS 1-210-207-7720 TEXAS STATE WIDE ONE CALL LOCATOR 1-800-545-6005 OR 811

- 6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR RESTORING EXISTING FENCES, CURBS, STREETS, DRIVEWAYS, SIDEWALKS, LANDSCAPING AND STRUCTURES TO ITS ORIGINAL OR BETTER CONDITION AS A RESULT OF DAMAGES DONE BY THE PROJECT?S CONSTRUCTION.
- 7. ALL WORK IN TEXAS HIGHWAY DEPARTMENT AND BEXAR COUNTY RIGHT-OF-WAY SHALL BE DONE IN ACCORDANCE WITH RESPECTIVE CONSTRUCTION SPECIFICATIONS AND PERMIT.
- THE CONTRACTOR SHALL COMPLY WITH CITY OF SAN ANTONIO OR OTHER GOVERNING MUNICIPALITY'S TREE ORDINANCES WHEN EXCAVATING NEAR TREES.
- 9. THE CONTRACTOR SHALL NOT PLACE ANY WASTE MATERIALS IN THE 100-YEAR FLOOD PLAIN WITHOUT FIRST OBTAINING AN APPROVED FLOOD PLAIN PERMIT
- 10. ANY WORK COMPLETED WITHOUT PRIOR WRITTEN AUTHORIZATION WHICH IS NOT INCLUDED IN THESE PLANS AND SPECIFICATIONS WILL NOT BE COMPENSATED BY THE SAN ANTONIO WATER SYSTEM
- 11. HOLIDAY WORK: CONTRACTORS WILL NOT BE ALLOWED TO PERFORM SAWS WORK ON SAWS RECOGNIZED HOLIDAYS. REQUEST SHOULD BE SENT TO constworkreg@saws.org. WEEKEND WORK: CONTRACTORS ARE REQUIRED TO NOTIFY THE SAWS INSPECTION CONSTRUCTION DEPARTMENT 48 HOURS IN ADVANCE TO REQUEST WEEKEND WORK. REQUEST SHOULD BE SENT TO constworkreq@sows.org. ANY AND ALL SAWS UTILITY WORK INSTALLED WITHOUT HOLIDAY/WEEKEND APPROVAL WILL BE SUBJECT TO BE UNCOVERED FOR PROPER INSPECTIÓN.
- 12. PRE CON SITE VIDEO: BEFORE THE START OF ANY CONSTRUCTION. THE SITE MUST BE VIDEO RECORDED BY THE CONTRACTOR WITH ONE COPY SUBMITTED TO SAWS INSPECTIONS. A PRE-SITE VIDEO WILL PROVIDE ACCURATE DOCUMENTATION OF THE EXISTING CONDITIONS (NSPI).
- 13. POWER POLE BRACING: CONTRACTORS SHOULD BE ADVISED THAT THERE ARE EXISTING OVERHEAD UTILITY POLES ALONG THE PROJECT CORRIDOR. CONTRACTORS SHOULD FURTHER BE ADVISED THAT IF THE DISTANCE FROM THE OUTSIDE FACE OF A UTILITY TRENCH TO THE FACE OF A UTILITY POLE IS LESS THAN 5 FEET, SAID UTILITY POLE IS SUBJECT TO BRACING, BASED ON A DETERMINATION MADE BY UTILITY POLE OWNER. COSTS INCURRED BY CONTRACTOR FOR BRACING OF THESE UTILITY POLES IS SUBSIDIARY TO THAT RESPECTIVE UTILITY COMPANY?S WORK. IT IS ADVISABLE FOR THE CONTRACTOR TO REVIEW THE CONSTRUCTION DOCUMENTS, AND VISIT THE CONSTRUCTION SITE TO DETERMINE POTENTIAL IMPACTS.
- 14. CONSTRUCTION SEQUENCING: IT IS THE CONTRACTOR SOLE RESPONSIBILITY TO SCHEDULE SEQUENCING FOR REMOVAL AND INSTALLATION OF EXISTING AND PROPOSED SAWS UTILITIES IN CONJUNCTION WITH GENERAL PROJECT CONSTRUCTION. SEQUENCE OF CONSTRUCTION ACTIVITIES SHALL BE CONSIDERED IN ORDER TO MINIMIZE THE EXTENT AND DURATION OF DISTURBANCES.

WATER SECTION:

- 15. PRIOR TO TIE-INS, ANY SHUTDOWNS OF EXISTING MAINS OF ANY SIZE MUST BE COORDINATED WITH THE SAWS INSPECTION AND/OR SAWS PRODUCTION GROUPS AT LEAST ONE WEEK OR MORE IN ADVANCE OF THE SHUTDOWN. THE CONTRACTOR MUST ALSO PROVIDE A SEQUENCE OF WORK AS RELATED TO THE TIE-INS; THIS IS AT NO ADDITIONAL COST TO SAWS OR THE PROJECT AND IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO SEQUENCE THE WORK ACCORDINGLY. SAWS PRODUCTION CONTROL CENTER 210-233-2016
- 16. ASBESTOS CEMENT (AC) PIPE, ALSO KNOWN AS TRANSITE PIPE WHICH IS KNOWN TO CONTAIN ASBESTOS-CONTAINING MATERIAL (ACM), MAYBE LOCATED WITHIN THE PROJECT LIMITS. SPECIAL WASTE MANAGEMENT PROCEDURES AND HEALTH AND SAFETY REQUIREMENTS WILL BE APPLICABLE WHEN REMOVAL AND/OR DISTURBANCE OF THIS PIPE OCCURS, PAYMENT FOR SUCH WORK IS TO BE MADE UNDER ITEM NO. 3000, "HANDLING ASBESTOS CEMENT PIPE".
- 17. VALVE REMOVAL: WHERE THE CONTRACTOR IS TO ABANDON A WATER MAIN, THE CONTROL VALVE LOCATED ON THE ABANDONING BRANCH WILL BE REMOVED AND REPLACED WITH A CAP/PLUG. (NSPI)

GENERAL NOTES:

- NO EXTRA PAYMENT SHALL BE ALLOWED FOR WORK CALLED FOR ON THE PLANS, BUT NOT INCLUDED IN THE BID PROPOSAL. THIS INCIDENTAL WORK WILL BE REQUIRED AND SHALL BE INCLUDED IN THE PAY ITEM TO WHICH IT RELATES.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR RESTORING TO ITS ORIGINAL OR BETTER CONDITION ANY DAMAGE DONE TO EXISTING FENCES, CONCRETE ISLANDS, STREET PAVING, 2. CURBS, SHRUBS, BUSHES OR DRIVEWAYS. (NO SEPARATE PAY ITEM).
- 3. IT IS THE CONTRACTOR'S RESPONSIBILITY TO SEE THAT ALL SIGNS AND BARRICADES ARE PROPERLY INSTALLED AND MAINTAINED. ALL LOCATIONS AND DISTANCES WILL BE DECIDED UPON IN THE FIELD BY THE CONTRACTOR, USING THE "TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES". THE CITY'S CONSTRUCTION INSPECTOR AND TRAFFIC ENGINEERING REPRESENTATIVE WILL ONLY BE RESPONSIBLE TO INSPECT BARRICADES AND SIGNS. IF, IN THE OPINION OF THE TRAFFIC ENGINEERING REPRESENTATIVE AND THE CONCEPTION UNDERTAD. CONSTRUCTION INSPECTOR, THE BARRICADES AND SIGNS DO NOT CONFORM TO ESTABLISHED STANDARDS OR ARE INCORRECTLY PLACED OR ARE INSUFFICIENT IN QUANTITY TO PROTECT THE GENERAL PUBLIC, THE CONSTRUCTION INSPECTOR SHALL HAVE THE OPTION TO STOP OPERATIONS UNTIL SUCH TIME AS THE CONDITIONS ARE CORRECTED
- 4. IF THE NEED ARISES, ADDITIONAL BARRICADES AND DIRECTIONAL DEVICES MAY BE ORDERED BY THE TRAFFIC ENGINEERING REPRESENTATIVE AT THE CONTRACTOR'S EXPENSE
- 5. DUE TO FEDERAL REGULATIONS TITLE 49, PART 192.171 C.P.S. MUST MAINTAIN ACCESS TO GAS VALVES AT ALL TIMES. THE CONTRACTOR MUST PROTECT AND WORK AROUND ANY GAS VALVES THAT ARE IN THE PROJECT AREA.
- CONTRACTOR SHALL NOTIFY THE SAWS INSPECTOR FORTY-EIGHT (48) HOURS PRIOR TO BACKFILL OF ANY UTILITY TRENCHES TO SCHEDULE FOR DENSITY TEST AS REQUIRED.
- 7. CONTRACTOR SHALL PRESERVE ALL CONSTRUCTION STAKES, MARKS, ETC. IF ANY ARE DESTROYED OR REMOVED BY THE CONTRACTOR OR HIS EMPLOYEES, THEY SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.
- THE EXISTENCE AND LOCATION OF UNDERGROUND UTILITIES INDICATED ON THE PLANS 8. ARE TAKEN FROM AVAILABLE RECORDS AND ARE NOT GUARANTEED, BUT SHALL BE INVESTIGATED AND VERIFIED BY THE CONTRACTOR BEFORE STARTING WORK. THE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR ANY DAMAGE TO AND FOR THE MAINTENANCE AND PROTECTION OF THE EXISTING UTILITIES EVEN IF THEY ARE NOT SHOWN ON THE PLANS. LOCATION AND DEPTH OF EXISTING UTILITIES SHOWN HERE ARE APPROXIMATE ONLY. ACTUAL LOCATIONS AND DEPTHS MUST BE VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION AND HE SHALL BE RESPONSIBLE FOR PROTECTION OF SAME DURING CONSTRUCTION.
- 9. ALL WASTE MATERIAL SHALL BECOME PROPERTY OF THE CONTRACTOR AND SHALL BE HIS SOLE RESPONSIBILITY TO DISPOSE OF THIS MATERIAL OFF THE LIMITS OF THE PROJECT. NO WASTE MATERIAL SHALL BE PLACED IN EXISTING LOWS THAT WILL BLOCK OR ALTER FLOW LIMITS OF EXISTING ARTIFICIAL OR NATURAL DRAINAGE.
- 10. THE CONTRACTOR SHALL MAINTAIN ALL ADJOINING STREETS AND TRAVELED ROUTES FREE FROM SPILLAGE AND / OR TRACKED CONSTRUCTION MATERIALS AND / OR DEBRIS.

AT&T TELEPHONE COMPANY NOTE:

THE EXISTENCE AND LOCATION OF UNDERGROUND CABLE INDICATED ON THESE PLANS ARE TAKEN FROM THE BEST RECORDS AVAILABLE AND ARE NOT GUARANTEED TO BE ACCURATE CONTRACTOR MUST CONTACT THE TELEPHONE COMPANY CABLE LOCATOR 48 HOURS PRIOR TO EXCAVATION AT 1-800-344-8377, CONTRACTOR HAS THE RESPONSIBILITY TO PROTECT AND SUPPORT TELEPHONE COMPANY PLANT DURING CONSTRUCTION.

SPECTRUM (TIME WARNER CABLE) NOTE:

CONTRACTOR SHALL CONTACT THE ONE-CALL LOCATOR 48 HOURS PRIOR TO EXCAVATION AT 1-800-344-8377. CONTRACTOR IS RESPONSIBLE FOR PROTECTING AND SUPPORTING CABLE TV PLANT DURING CONSTRUCTION.

- 2.

5.

7

- 9. PIPING.

CPS ENERGY NOTES

1. CALL CPS ENERGY LOCATOR AT 1-800-344-8377, 48 HOURS BEFORE BEGINNING ANY EXCAVATION

DUE TO FEDERAL REGULATIONS TITLE 49, PART 192.181, CPS MUST MAINTAIN ACCESS TO GAS VALVES AT ALL TIMES. THE CONTRACTOR MUST PROTECT AND WORK AROUND ANY GAS VALVES THAT ARE IN THE PROJECT AREA.

OVERHEAD LINES EXIST IN THE WORK AREAS. THESE LINES MAY NOT HAVE BEEN MARKED ON THE DRAWINGS SINCE THEY ARE CLEARLY VISIBLE. THE CONTRACTOR SHALL LOCATE THEM PRIOR TO BEGINNING ANY CONSTRUCTION. TEXAS LAW, SECTION 752, HEALTH AND SAFETY CODE, FORBIDS ALL ACTIVITIES IN WHICH PERSONS OR THINGS MAY COME WITHIN TEN (10) FEET OF LIVE OVERHEAD HIGH VOLTAGE LINES. CONTRACTOR SHALL MAINTAIN A MINIMUM CLEARANCE OF 3 RADIUS FROM NEUTRAL AND 10' RADIUS FROM PRIMARY BETWEEN PROPOSED TRAFFIC SIGNAL EQUIPMENT, INCLUDING SPAN WIRE, AND EXISTING OVERHEAD FLECTRICAL LINES

4. THE CONTRACTOR IS LEGALLY RESPONSIBLE FOR THE SAFETY OF CONSTRUCTION WORKERS UNDER THIS LAW. THIS CARRIES BOTH CRIMINAL AND CIVIL LIABILITY.

CONTRACTOR SHALL NOT BEGIN WORK OR ACTIVITY UNTIL THE CONTRACTOR HAS NEGOTIATED A SATISFACTORY MUTUAL ARRANGEMENT WITH CPS ENERGY TO PROVIDE TEMPORARY DE-ENERGIZATION AND GROUNDING, TEMPORARY RELOCATION OR RAISING OF THE LINE, OR TEMPORARY MECHANICAL BARRIERS TO SEPARATE AND PREVENT CONTACT BETWEEN THE LINE AND THE MATERIAL OR EQUIPMENT OR THE PERSON PERFORMING THE WORK, ACTIVITY, OR FUNCTION,

6. CONTRACTOR SHALL PAY CPS ENERGY THE ACTUAL EXPENSE INCURRED BY THE OPERATOR IN PROVIDING THE CLEARANCE PRESCRIBED IN THE AGREEMENT. CPS ENERGY MAY REQUIRE PAYMENT IN ADVANCE AND IS NOT REQUIRED TO PROVIDE THE CLEARANCE UNTIL THE CONTRACTOR MAKES THE PAYMENT.

CONTRACTOR SHALL CONTACT AND COORDINATE WITH CPS ENERGY REPRESENTATIVE FOR POLES TO BE BRACED AND LINES TO BE DE-ENERGIZED AND/OR MOVED. CONTRACTOR IS RESPONSIBLE TO CPS ENERGY FOR ANY COSTS ASSOCIATED WITH BRACING OF POWER POLES OR DE-ENERGIZING AND/OR MOVING ANY CONFLICTING OVERHEAD POWER LINES

8. WHEN EXCAVATING WITHIN TWENTY FOUR INCHES (24") OF THE INDICATED LOCATION OF CPS ENERGY FACILITIES, ALL EXCAVATION MUST BE ACCOMPLISHED USING NON-MECHANIZED EXCAVATION PROCEDURES.

WHEN CPS ENERGY FACILITIES ARE EXPOSED, CONTRACTOR SHALL PROVIDE SUFFICIENT SUPPORT TO THE FACILITIES TO PREVENT EXCESSIVE STRESS ON THE

10. THE CONTRACTOR IS FULLY RESPONSIBLE FOR ANY DAMAGES CAUSED BY THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE THESE UNDERGROUND FACILITIES.



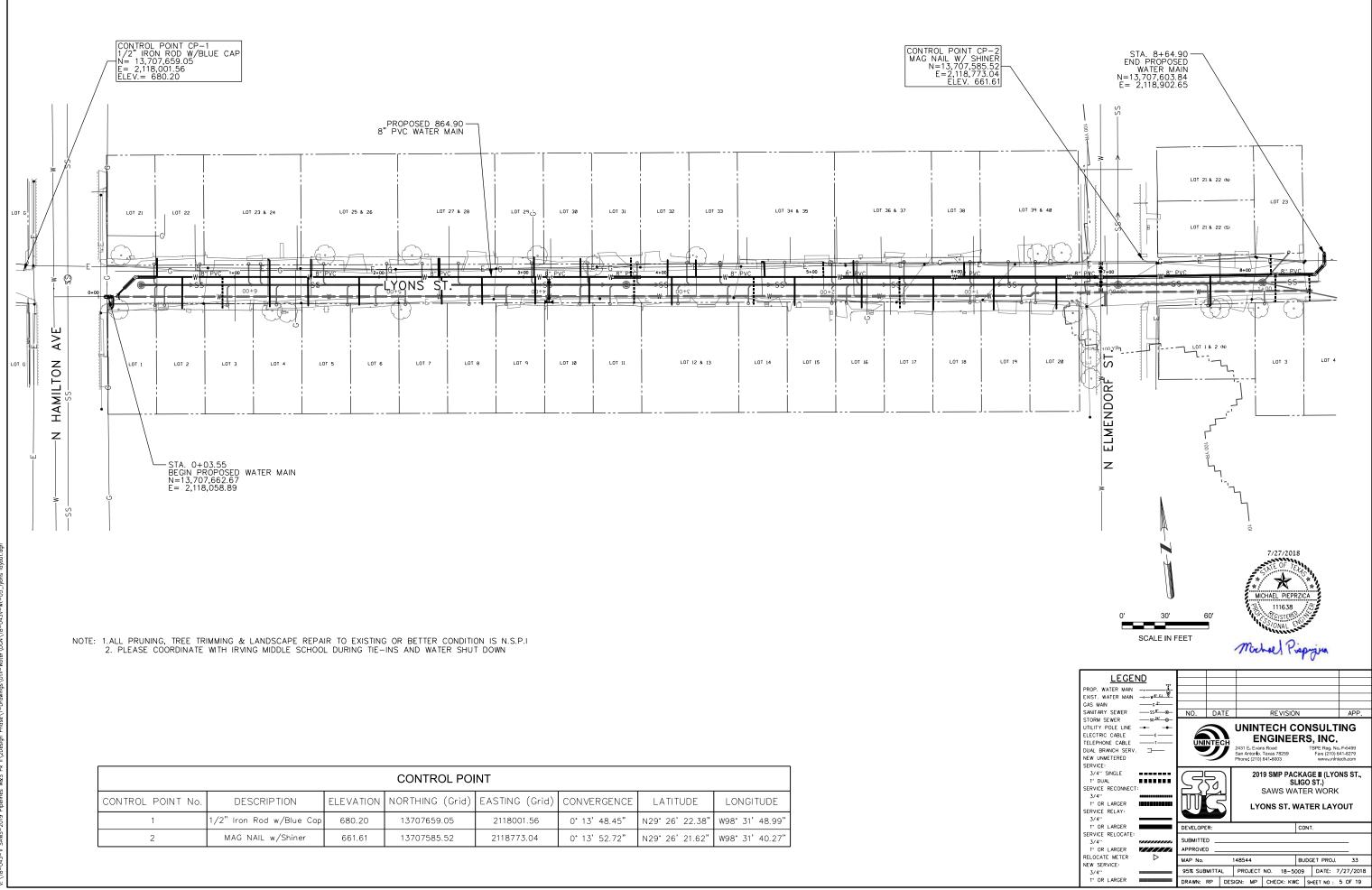
LEGEND PROP. WATER MAIN EXIST. WATER MAIN GAS MAIN SANITARY SEWER STORM SEWER STORM SEWER SOLUTION STORM SEWER SOLUTION SANTARY SEWER STORM SEWER SOLUTION	NO. DA	ATE.		REVISIO	N		APP.
UTILITY POLE LINE		СН		Texas 78259	R		F-5499 11-8279
3/4" SINGLE 1" DUAL SERVICE RECONNECT: 3/4" 1" OR LARGER SERVICE RELAY: 3/4"			:	9 SMP PAO SI SAWS WA	L IGO Atei	r Work	·
1" OR LARGER	DEVELOPER:				CON	т.	
SERVICE RELOCATE: 3/4" 1" OR LARGER	SUBMITTED						_
RELOCATE METER D	MAP No.	1	48544		BUD	GET PROJ.	33
3/4"	95% SUBMITTA	AL.	PROJECT	NO. 18-5	009	DATE: 7	/27/2018
1" OR LARGER	DRAWN: RP	DES	IGN: MP	CHECK: KW	C S	HEET NO :	3 OF 19

17514	DESCRIPTION			TOTAL				
ITEM	DESCRIPTION	UNIT	SHEET 6	SHEET 7	SHEET 9	SHEET 10	SHEET 11	QUANTITY
100.1	MOBILIZATION	L.S.						1
101.1	PREPARING RIGHT OF WAY	L.S.						1
103.3	REMOVE CONCRETE SIDEWALKS & DRIVEWAYS (3,000 SF < X < 10,000 SF)	SF	<u>.</u>		160	80	40	308
203.1	TACK COAT	GAL	21	25	21	21	11	108
205.2	HOT MIX ASPHALTIC PAVEMENT, TYPE B (10' COMP. DEPTH)	SY	161	197	163	163	89	850
205.4	HOT MIX ASPHALTIC PAVEMENT, TYPE D (2" COMP. DEPTH) (< 5000 SY)	SY	205	251	207	207	114	1083
502.1	CONCRETE SIDEWALKS (< 150 SY)	SY			18	9	4	34
530.1	BARRICADE, SIGNS AND TRAFFIC HANDLING	LS		0.5			1	2
550.0	TRENCH EXCAVATION SAFETY PROTECTION	L.F.	396	485	400	400	220	2091
818.0	8" PVC WATERLINE	L.F.	396	485	400	400	220	2091
824.0	RELAY 3/4" SHORT SERVICE	EA.	7	4	5	3	2	23
824.0	RELAY 3/4" LONG SERVICE	EA.	8	7	5	4		26
824.0	RELAY 1" SHORT SERVICE	EA.	1					1
824.0	NEW 3/4" SHORT UNMETERED SERVICE	EA.	1	2	3	5		12
824.0	NEW 3/4" LONG UNMETERED SERVICE	EA.	2	4	3	2	3	15
824.0	RELOCATE 3/4" LONG SERVICE	EA.	2		2	2		4
824.5	CUSTOMER SHUT-OFF VALVE	EA.			5	1		7
828.0	8" GATE VALVES	EA.	1	3		1	1	7
833.0	EXISTING METER AND NEW METER BOX RELOCATION	EA.			5	1		7
833.0	METER BOX	EA.	19	17	11	13	5	72
834.1	FIRE HYDRANT	EA.	1		1	1		3
836.0	PIPE FITTINGS, ALL SIZES AND TYPES	TON	0.6	0.5	0.4	0.2	0.3	2
840.0	6" WATER TIE-INS	EA.	1	2	1		1	6
841.0	HYDROSTATIC TESTING	EA.	1		1		1	3
844.0	2" BLOWOFF, PERMANENT	EA.		1				1
844.0	2" BLOWOFF, TEMPORARY	EA.	1	2	1		1	6
COSA 413	FLOWABLE FILL	C.Y.	7	56	2	2	2	76
3000.0	REMOVAL, TRANSPORTATION, AND DISPOSAL OF AC PIPE	L.F.			13		13	29

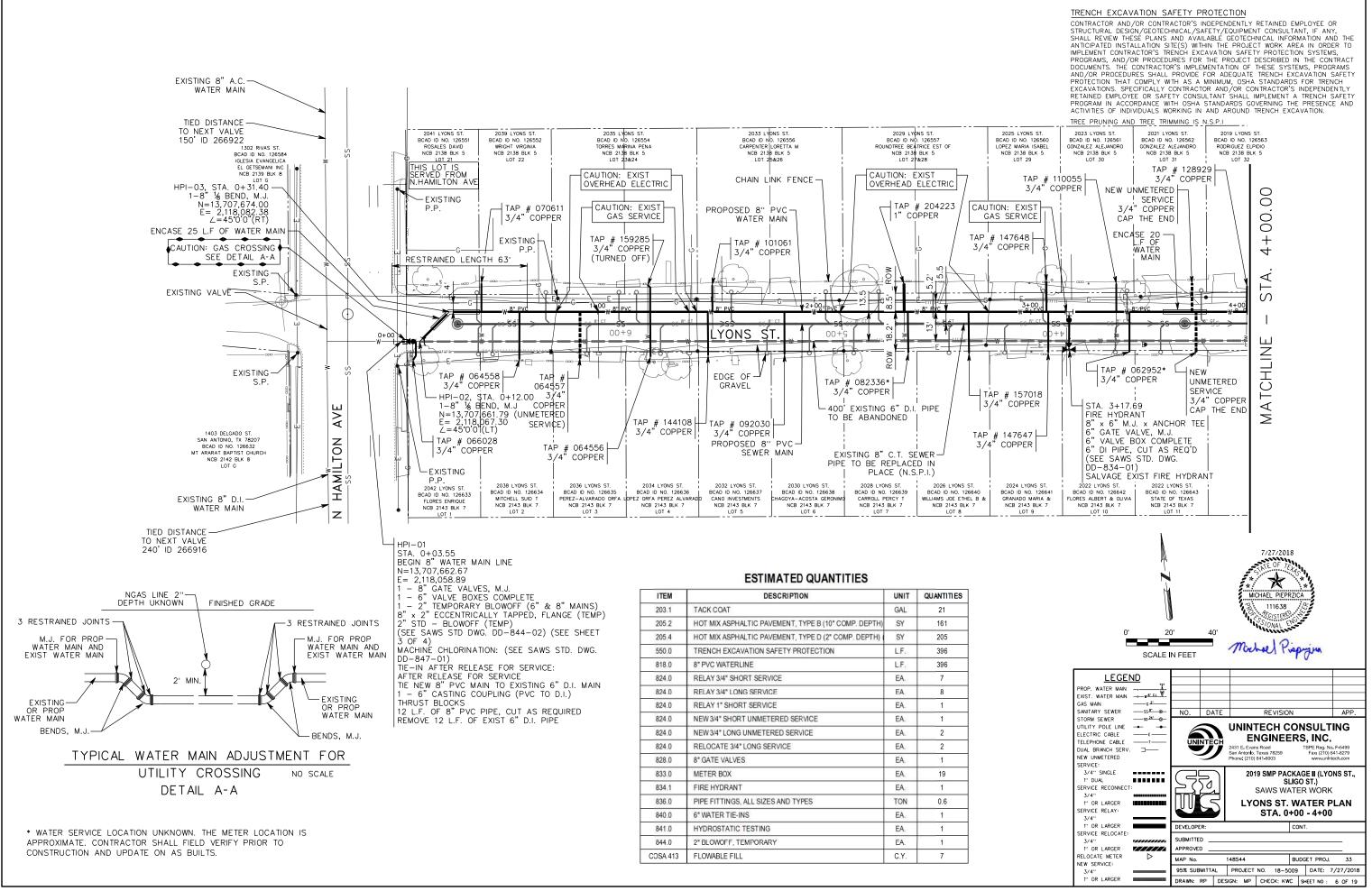
SUMMARY OF QUANTITIES

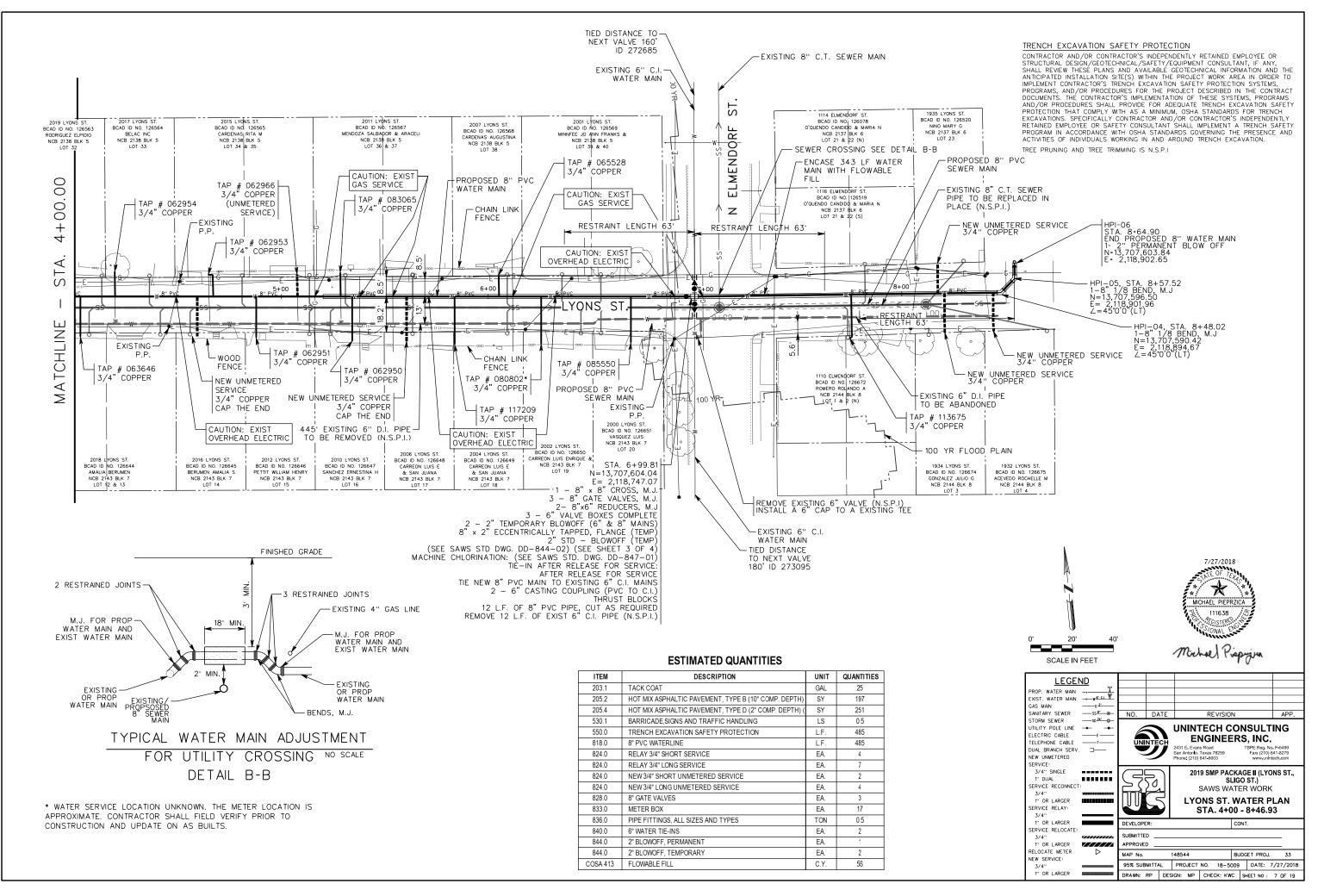


LEGEND							
PROP. WATER MAIN							
EXIST. WATER MAIN → ₩ ⁶ CL.♥. GAS MAIN → G. ²							
SANITARY SEWER	NO.	DATE		REVISIO	N	APP.	
STORM SEWER							
UTILITY POLE LINE		\sim				SULTING	
		тесн	El	NGINEE	ERS	5, INC.	
DUAL BRANCH SERV.]]	2431 E. Evan San Antonio.		Т	BPE Reg. No. F 5499 Fax. (210) 641-8279	
NEW UNMETERED			Phone: (210)			www.unintech.com	
SERVICE:							
3/4" SINGLE		∍.) I	201			EII (LYONS ST.,	
SERVICE RECONNECT:	> ()	0		SAWS WA	LIGO		
3/4"		-41		34013 007			
1" OR LARGER		-5	SUM			UANTITIES	
SERVICE RELAY:			001			OANTILO	
1" OR LARGER	DEVELOPER	:			CONT	r.	
SERVICE RELOCATE:							
3/4"	SUBMITTED						
1" OR LARGER	APPROVED						
NEW SERVICE:	MAP No. 148544 BUDGET PROJ. 33						
3/4"	95% SUBM	95% SUBMITTAL PROJECT NO. 18-5009 DATE: 7/27/2018					
1" OR LARGER	DRAWN: RE	P DES	IGN: MP	CHECK: KW	C SF	HEET NO: 4 OF 19	



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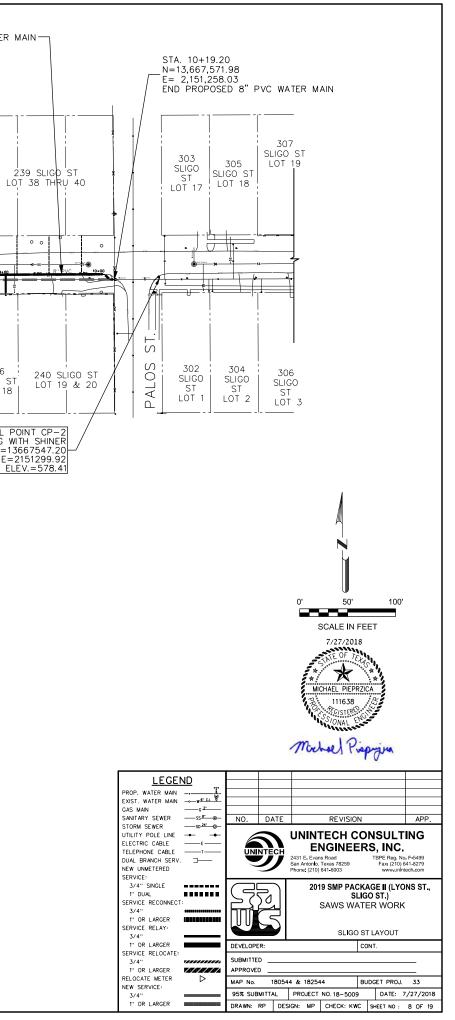


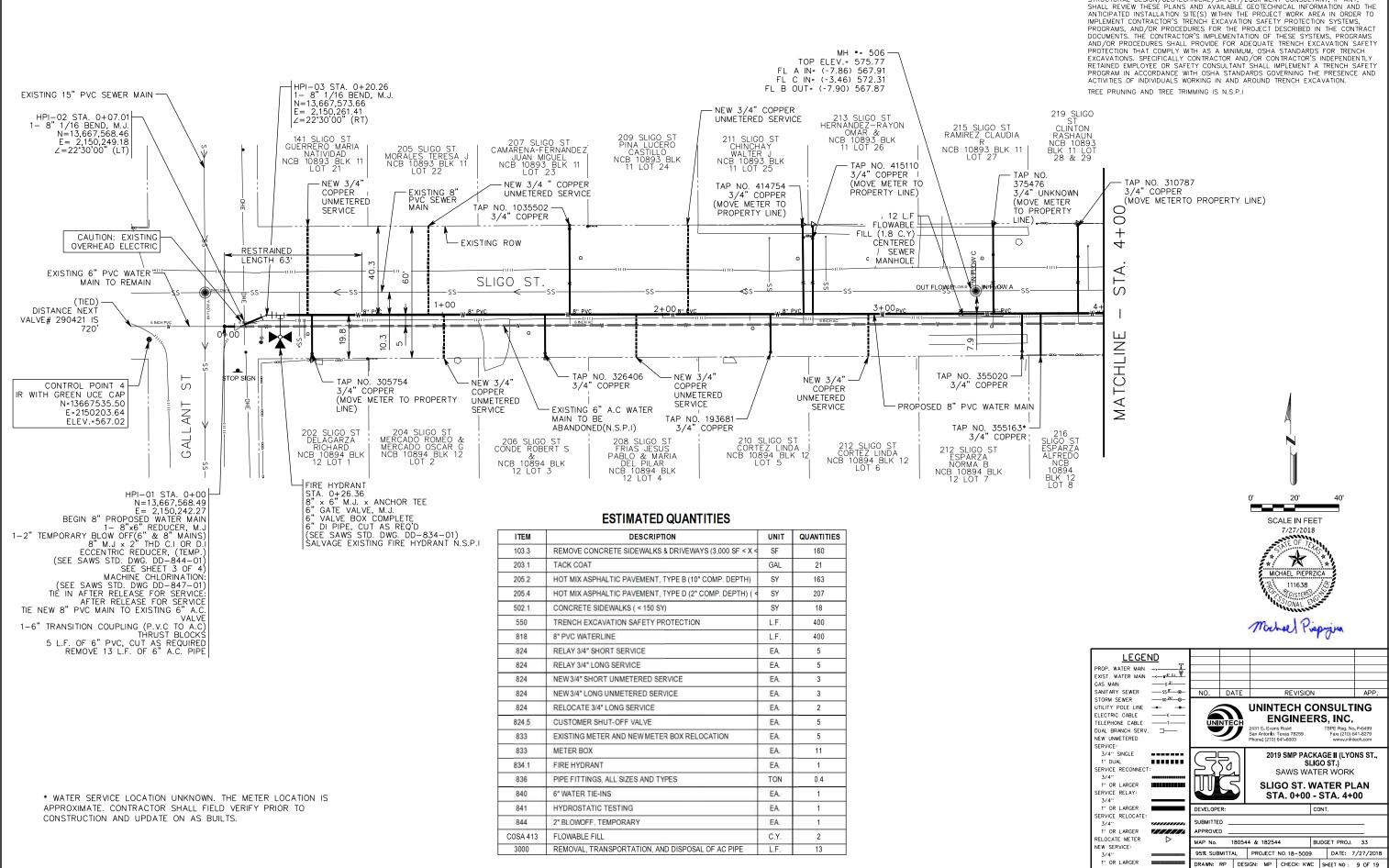
7/27/2018 2:52:27 PM rpilamari V:\18-043-V SAMS-2019 Pipelines W&S PK II\2Design Phase\1-Drawings\Util-Water\DCN\18-043V-wt-07_lyons plan-2.dgn

CONTROL POINT CP-3 IR WITH GREEN UCE CAP N=13667569.98 E=2150803.51 ELEV.= 577.06 221 223 209 2.31 141 215 SLIGO ST SLIGO ST LOT 24 211 213 SLIGO ST LOT 30 SLIGO ST LOT 31 207 205 SLIGO ST LOT 22 207 SLIGO ST LOT 23 SLIGO ST LOT 21 219 SLIGO ST LOT 28 & 29 SLIGO ST 233 SLIGO ST LOT 36 & 37 SLIGO ST SLIGO ST 225 227 SLIGO ST LOT 33 & 34 SLIGO LOT : ′ST 32 LOT 35 LOT 25 LOT 26 LOT 27 STA. 0+00 N=13,667,568.49 E= 2,150,242.27-BEGIN PROPOSED 8" PVC 0 WATER MAIN . SLIGO ST اطبية عنيما 0) Ś \vdash GALLAN 212 SLIGO ST LOT 6 212 SLIGO ST LOT 7 206 208 210 216 218 220 234 224 228 232 202 204 SLIGO ST LOT 15 222 SLIGO ST 236 SLIGO ST LOT 8 SLIGO ST LOT 1 SLIGO ST LOT 4 SLIGO ST LOT 5 SLIGO ST LOT 2 SLIGO ST SLIGO ST SLIGO ST SLIGO ST LOT 16 SLIGO ST SLIGO ST SLIGO ST LOT 11 & 12 SLIGO ST LOT 18 LOT 3 LOT 9 LOT 10 LOT 13 LOT 14 LOT 17 CONTROL POINT CP-4 R WITH GREEN UCE CAP N=13667535.24 E=2150203.60 ELEV.= 567.01 CONTROL POINT CP-2 MAG WITH SHINER N=13667547.20-E=2151299.92 CONTROL POINT CP-1 IR WITH GREEN UCE CAP -N=13667577.76 E=2152106.16 ELEV.=575.93 321 323 403 315 333 309 311 313 SLIGO ST SLIGO ST SLIGO ST LOT 20 LOT 21 LOT 22 317 319 SLIGO ST LOT 325 327 SLIGO ST LOT 27 329 331 SLIGO SLIGO SLIGO ST LOT 24 SLIGO ST LOT 25 SLIGO ST SLIGO ST SLIGO ST SLIGO ST LOT 31 SLIGO ST ST LOT 23 ST LOT 17 LOT 32 LOT 28 LOT 29 LOT 30 26 Þ. 00 0 0 0 0. "SLIGÖ ST. <u>∞</u> → » → 0 - T 00 0 I St Z Z Z Z 316 322 324 314 320 SLIGO ST LOT 10 328 SLIGO ST LOT 14 318 SLIGO ST LOT 9 310 SLIGO ST 312 326 CALEF 402 SLIGO ST LOT SLIGO ST LOT 11 SLIGO ST LOT 12 332 SLIGO ST LOT 15 AND 16 SLIGO ST LOT 6 SLIGO ST SLIGO ST LOT 13 SLIGO ST LOT 1 LOT 4 & 5 LOT 8

	CONTROL POINTS												
CONTROL POINT No.	DESCRIPTION	ELEVATION	NORTHING (SURF)	EASTING (SURF)	NORTHING (GRID)	EASTNG (GRID)	COVERGENCE	LATITUDE	LONGITUDE				
1	IR WITH GREEN UCE CAP	575.91	13669491.18	2152407.34	13667577.72	2152106.05	00°16′56.33493"	29°19′44.03660"	98°25′25.47715"				
2	MAG NAIL	578.44	13669460.61	2151601.06	13667547.15	2151299.88	00°16′51.87169"	29°19′43.77317"	98°25′34.58743"				
3	IR WITH GREEN UCE CAP	577.12	13669483.44	2151104.61	13667569.98	2150803.50	00°16′49.12469"	29°19′44.02329"	98°25′40.19456"				
4	IR WITH GREEN UCE CAP	567.02	13669448.65	2150504.63	13667535.20	2150203.60	00°16′45.80311"	29°19′43.70795"	98°25′46.97450"				

7/27/2018 2:39:20 PM V: (18-043-V: SAWS-2019 Ppeirines W&S Pk. II/2Design Phase/1-Drawings/Util-Water/DGN/18-043V-wt-08_siloo st. Tovout.dan PROPOSED 8" PVC WATER MAIN-

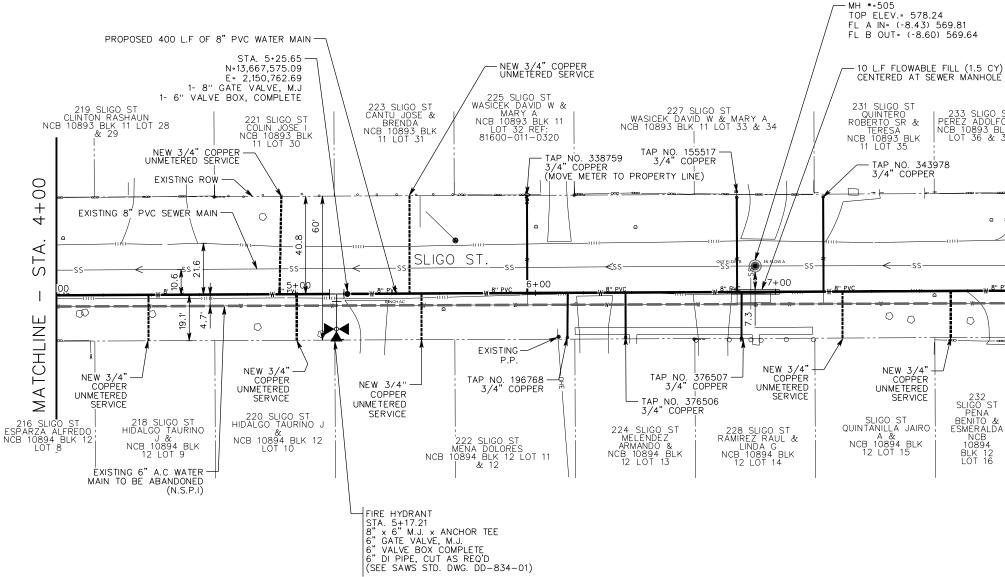




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TRENCH EXCAVATION SAFETY PROTECTION

CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR STRUCTURAL DESIGN/GEOTECHNICAL/SAFETY/EQUIPMENT CONSULTANT, IF ANY, SHALL REVEW 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,



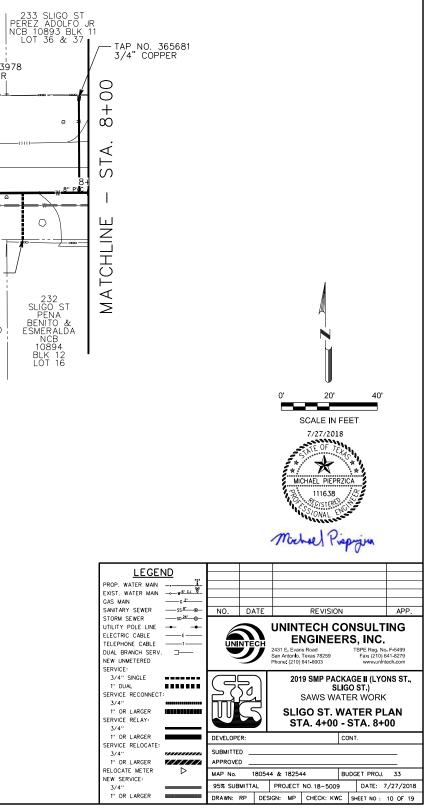
ESTIMATED QUANTITIES

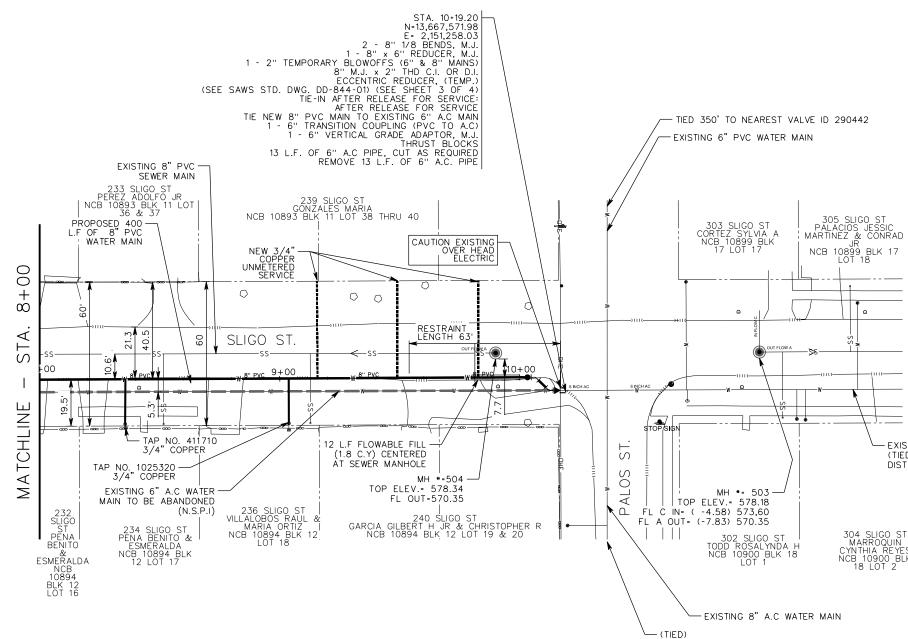
ITEM	DESCRIPTION	UNIT	QUANTITIES
103.3	REMOVE CONCRETE SIDEWALKS & DRIVEWAYS (3,000 SF	SF	80
203.1	TACK COAT	GAL	21
205.2	HOT MIX ASPHALTIC PAVEMENT, TYPE B (10" COMP. DEF	SY	163
205.4	HOT MIX ASPHALTIC PAVEMENT, TYPE D (2" COMP. DEP	SY	207
502.1	CONCRETE SIDEWALKS (< 150 SY)	SY	9
550.0	TRENCH EXCAVATION SAFETY PROTECTION	L.F.	400
818.0	8" PVC WATERLINE	L.F.	400
824.0	RELAY 3/4" SHORT SERVICE	EA.	3
824.0	RELAY 3/4* LONG SERVICE	EA.	4
824.0	NEW 3/4" SHORT UNMETERED SERVICE	EA.	5
824.0	NEW 3/4" LONG UNMETERED SERVICE	EA.	2
824.5	CUSTOMER SHUT-OFF VALVE	EA.	1
828.0	8" GATE VALVES	EA.	1
833.0	EXISTING METER AND NEW METER BOX RELOCATION	EA.	1
833.0	METER BOX	EA.	13
834.1	FIRE HYDRANT	EA	1
836.0	PIPE FITTINGS, ALL SIZES AND TYPES	TON	0.2
COSA 413	FLOWABLE FILL	C.Y.	2

* WATER SERVICE LOCATION UNKNOWN. THE METER LOCATION IS APPROXIMATE. CONTRACTOR SHALL FIELD VERIFY PRIOR TO CONSTRUCTION AND UPDATE ON AS BUILTS.

TRENCH EXCAVATION SAFETY PROTECTION

CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR STRUCTURAL DESIGN/GEOTECHNICAL/SAFETY/EQUIPMENT CONSULTANT, IF ANY, SHALL REVEW 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, IMPLEMENT CONTRACTORS 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 COMPLY WITH AS A MINIMUM, OSHA STANDARDS FOR TRENCH EXCAVATIONS. SPECIFICALLY CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR SAFETY CONSULTANT SHALL IMPLEMENT A TRENCH SAFETY PROGRAM IN ACCORDANCE WITH OSHA STANDARDS GOVERNING THE PRESENCE AND ACTIVITIES OF INDUITALS WIREVING. IN AND APOLIND TEMPCH EXCAVATION ACTIVITIES OF INDIVIDUALS WORKING IN AND AROUND TRENCH EXCAVATION. TREE PRUNING AND TREE TRIMMING IS N.S.P.I





DISTANCE TO NEXT VALVE*290426 IS 350'

ITEM	DESCRIPTION	UNIT	QUANTITIES
103.3	REMOVE CONCRETE SIDEWALKS & DRIVEWAYS (3,000 SF < X < 10	SF	40
203.1	TACK COAT	GAL	11
205.2	HOT MIX ASPHALTIC PAVEMENT, TYPE B (10" COMP. DEPTH)	SY	89
205.4	HOT MIX ASPHALTIC PAVEMENT, TYPE D (2" COMP. DEPTH) (< 50	SY	114
502.1	CONCRETE SIDEWALKS (< 150 SY)	SY	4
530.1	BARRICADE, SIGNS AND TRAFFIC HANDLING	LS	1
550.0	TRENCH EXCAVATION SAFETY PROTECTION	L.F.	220
818.0	8" PVC WATERLINE	L.F.	220
824.0	RELAY 3/4" SHORT SERVICE	EA.	2
824.0	NEW 3/4* LONG UNMETERED SERVICE	EA.	3
828.0	8" GATE VALVES	EA.	1
833.0	METER BOX	EA.	5
836.0	PIPE FITTINGS, ALL SIZES AND TYPES	TON	0.3
840.0	6" WATER TIE-INS	EA.	1
841.0	HYDROSTATIC TESTING	EA.	1
844.0	2" BLOWOFF, TEMPORARY	EA.	1
COSA 413	FLOWABLE FILL	C.Y.	2
3000.0	REMOVAL, TRANSPORTATION, AND DISPOSAL OF AC PIPE	L.F.	13

ESTIMATED QUANTITIES

* WATER SERVICE LOCATION UNKNOWN. THE METER LOCATION IS APPROXIMATE. CONTRACTOR SHALL FIELD VERIFY PRIOR TO CONSTRUCTION AND UPDATE ON AS BUILTS.

TRENCH EXCAVATION SAFETY PROTECTION

CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR STRUCTURAL DESIGN/GEDTECHNICAL/SAFETY/EQUIPMENT CONSULTANT, IF ANY, SHALL REVUEW 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 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 COMPLY WITH AS A MINIMUM, OSHA STANDARDS FOR TRENCH EXCAVATIONS. SPECIFICALLY CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR SAFETY CONSULTANT SHALL IMPLEMENT A TRENCH SAFETY PROGRAM IN ACCORDANCE WITH OSHA STANDARDS GOVERNING THE PRESENCE AND ACTIVITIES OF INDIVIDUALS WORKING IN AND AROUND TRENCH EXCAVATION. TEED ENDING AND THE TERING IN SECI TREE PRUNING AND TREE TRIMMING IS N.S.P.I

EXISTING 6" A.C WATER MAIN (TIED) DISTANCE TO NEXT VALVE#290431 IS 900'

BI

						V	
LEGEND							
PROP. WATER MAIN							
EXIST. WATER MAIN — — ₩ <u>4"CL X</u> _							
GAS MAING2*							
SANITARY SEWER	NO. D	ATE		REVISIO	N		APP.
STORM SEWER	(0	т шог	
UTILITY POLE LINE				TECH C			ING
TELEPHONE CABLE	UNINTE	CH	E	NGINEE	R	S, INC.	
DUAL BRANCH SERV.			2431 E. Evan			TBPE Reg. No	
NEW UNMETERED			San Antonio, Phone: (210)			Fax: (210) 6 www.unint	
SERVICE:							
3/4" SINGLE		\sim	201	9 SMP PAC	ка	GE II (LYO	NS ST.
1" DUAL) ST.)	,
SERVICE RECONNECT:		۸H	:	SAWS WA	ΥE	r work	
3/4"							
1" OR LARGER		\sum		30 ST. \			.AN
SERVICE RELAY: 3/4"			1	STA. 8+(00	- 12+00	
1" OR LARGER	DEVELOPER:	_			CON	T	
SERVICE RELOCATE:	DEVELOPER:				CUr	11.	
3/4" *******	SUBMITTED _						_
1" OR LARGER	APPROVED						_
RELOCATE METER	MAP No. 180544 & 182544 BUDGET PROJ. 33						33
NEW SERVICE:							
3/4"	95% SUBMITT	AL	PROJECT	NO. 18-5009	, 	DATE: 7	/27/2018
1" OR LARGER	DRAWN: RP	DES	IGN: MP	CHECK: KW	c	SHEET NO :	11 OF 19

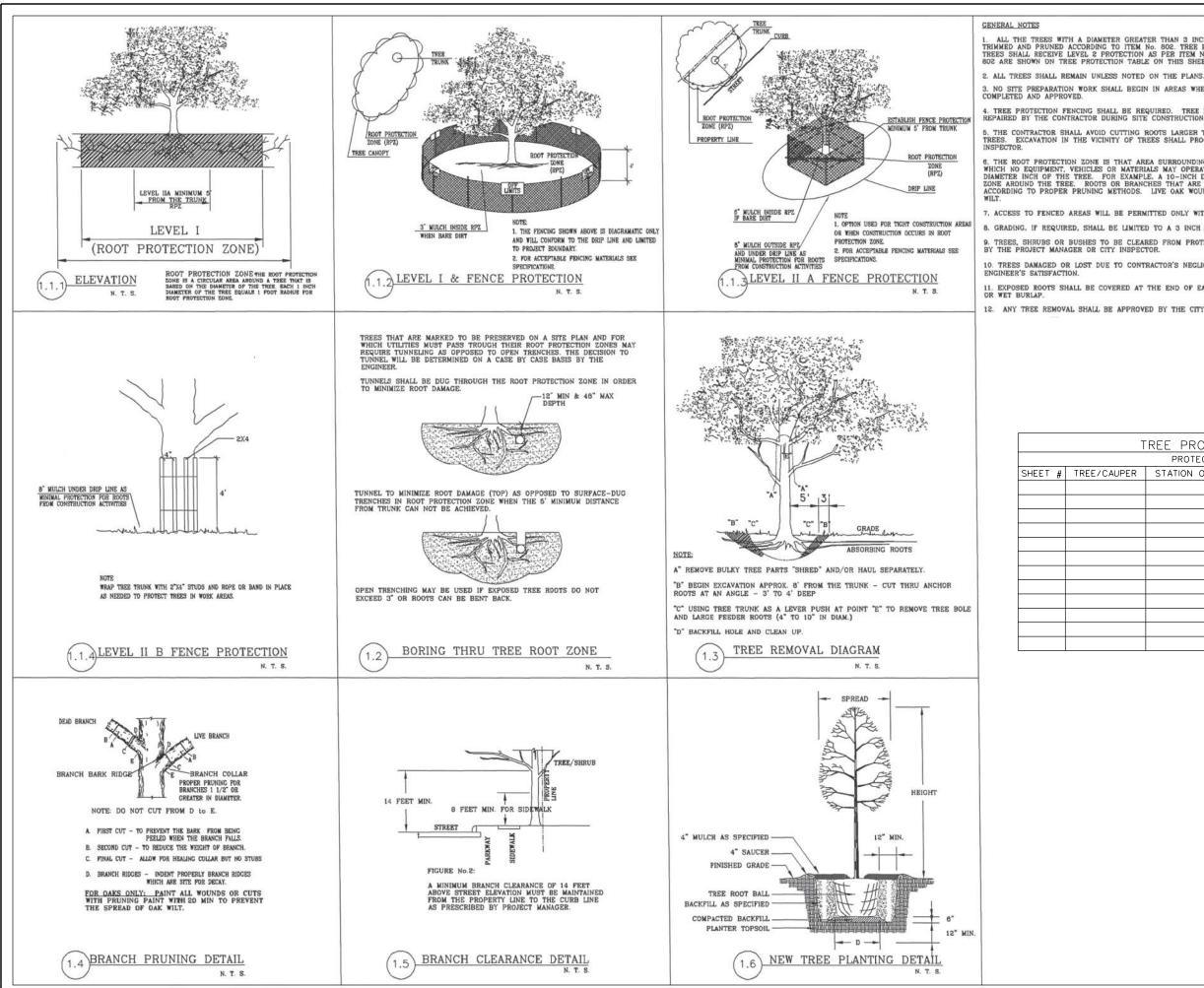
20'

7/27/2018

 \star MICHAEL PIEPRZICA 111638

Michael Preprint

SCALE IN FEET 40'



2:39: 010 P

1. ALL THE TREES WITH A DIAMETER GREATER THAN 3 INCHES AFFECTED BY CONSTRUCTION SHALL HAVE THE LIMBS AND ROOTS TRIMMED AND PRUNED ACCORDING TO ITEM No. 802. TREE PRUNING, SOIL AMENDING AND FERTILIZATION, UNLESS SPECIFIED TREES SHALL RECEIVE LEVEL 2 PROTECTION AS PER ITEM NO. 802. TREES TO RECEIVE LEVEL 1 PROTECTION AS PER ITEM NO. 802 ARE SHOWN ON TREE PROTECTION TABLE ON THIS SHEET.

3. NO SITE PREPARATION WORK SHALL BEGIN IN AREAS WHERE TREE PRESERVATION AND TREATMENT MEASURES HAVE NOT BEEN COMPLETED AND APPROVED.

4. TREE PROTECTION FENCING SHALL BE REQUIRED. TREE PROTECTION FENCING SHALL BE INSTALLED, MAINTAINED AND REPAIRED BY THE CONTRACTOR DURING SITE CONSTRUCTION.

5. THE CONTRACTOR SHALL AVOID CUTTING ROOTS LARGER THAN THREE INCHES IN DIAMETER WHEN EXCAVATING NEAR EXISTING TREES. EXCAVATION IN THE VICINITY OF TREES SHALL PROCEED WITH CAUTION. THE CONTRACTOR SHALL CONTACT THE CITY

6. THE ROOT PROTECTION ZONE IS THAT AREA SURROUNDING A TREE, AS MEASURED BY A RADIUS FROM THE TREE TRUNK, IN WHICH NO EQUIPMENT, VEHICLES OR MATERIALS MAY OPERATE OR BE STORED. THE REQUIRED RADIUS LENGTH IS 1 FOOT PER DIAMETER INCH OF THE TREE. FOR EXAMPLE, A 10-INCH DIAMETER TREE WOLLD HAVE A 5-FOOT RADIUS ROOT PROTECTION ZONE AROUND THE TREE. ROOTS OR BRANCHES THAT ARE IN CONFLICT WITH THE CONSTRUCTION SHALL BE CUT CLEANLY ACCORDING TO PROPER PRUNING METHODS. LIVE OAK WOUNDS SHALL BE PAINTED OVER, WITHIN 2D MINUTES TO PREVENT OAK WITT

7. ACCESS TO FENCED AREAS WILL BE PERMITTED ONLY WITH THE APPROVAL OF THE ENGINEER OR CITY INSPECTOR.

8. GRADING, IF REQUIRED, SHALL BE LIMITED TO A 3 INCH CUT OR FILL WITHIN THE FENCED ROOT ZONE AREAS.

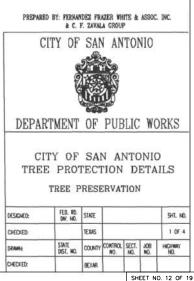
TREES, SHRUBS OR BUSHES TO BE CLEARED FROM PROTECTED ROOT ZONE AREAS SHALL BE REMOVED BY HAND AS DIRECTED

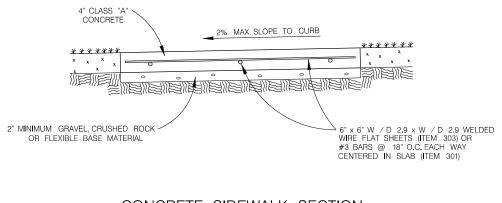
10. TREES DAMAGED OR LOST DUE TO CONTRACTOR'S NEGLIGENCE DURING CONSTRUCTION SHALL BE NITIGATED TO THE

11. EXPOSED ROOTS SHALL BE COVERED AT THE END OF EACH DAY USING TECHNIQUES SUCH AS COVERING WITH SOIL, MULCH OR WET BURLAP.

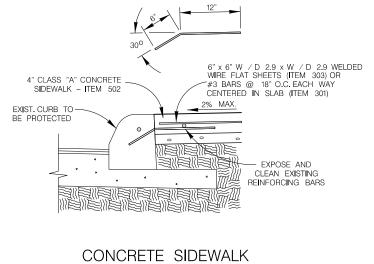
12. ANY TREE REMOVAL SHALL BE APPROVED BY THE CITY ARBORIST PRIOR TO ITS REMOVAL.

TREE PROTECTION TABLE								
PROTECTION MEASURE								
EE/CAUPER	AUPER STATION OR NUMBER MAINTENCE/TREATMENTS/PROTECTION							



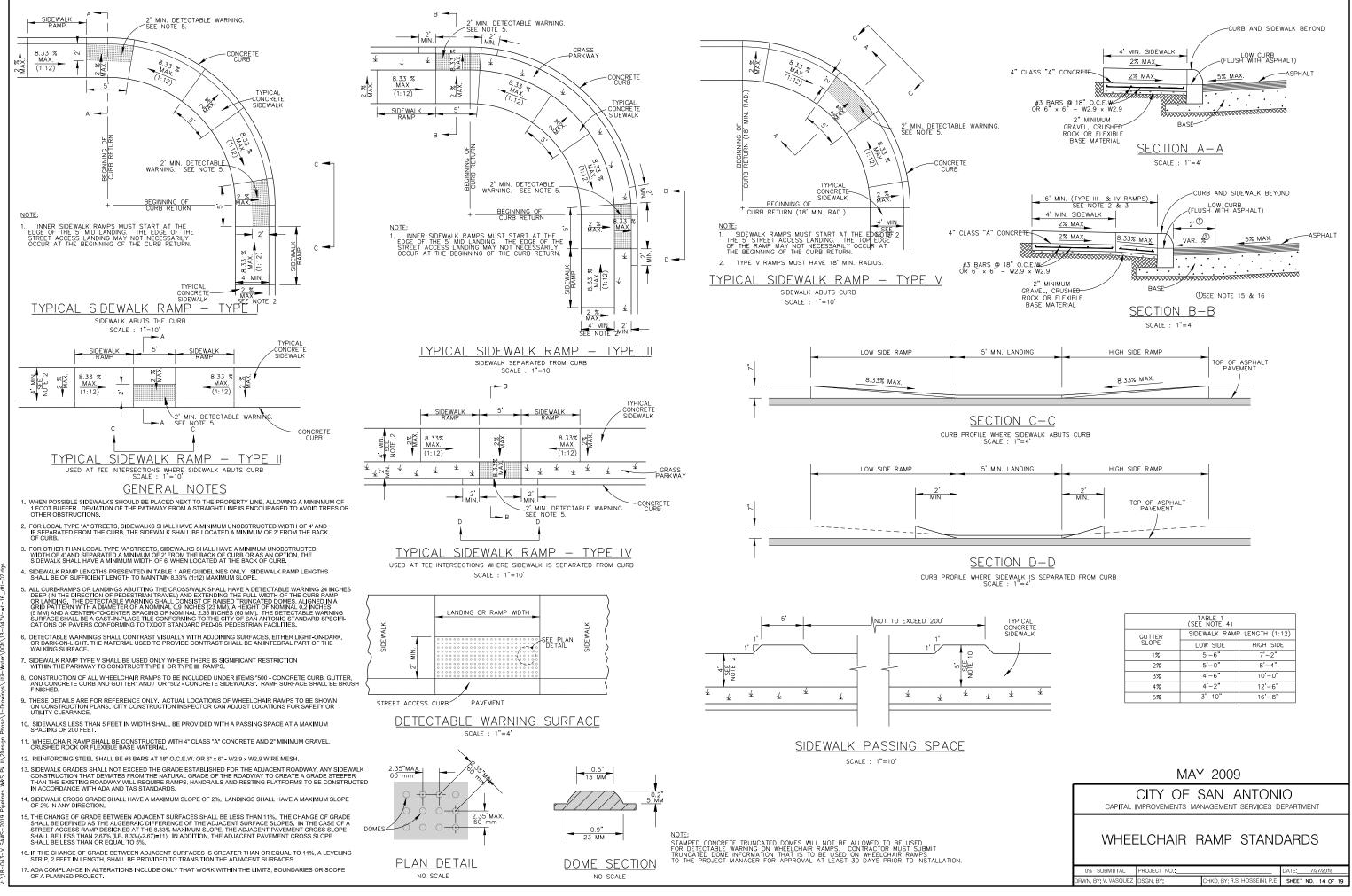


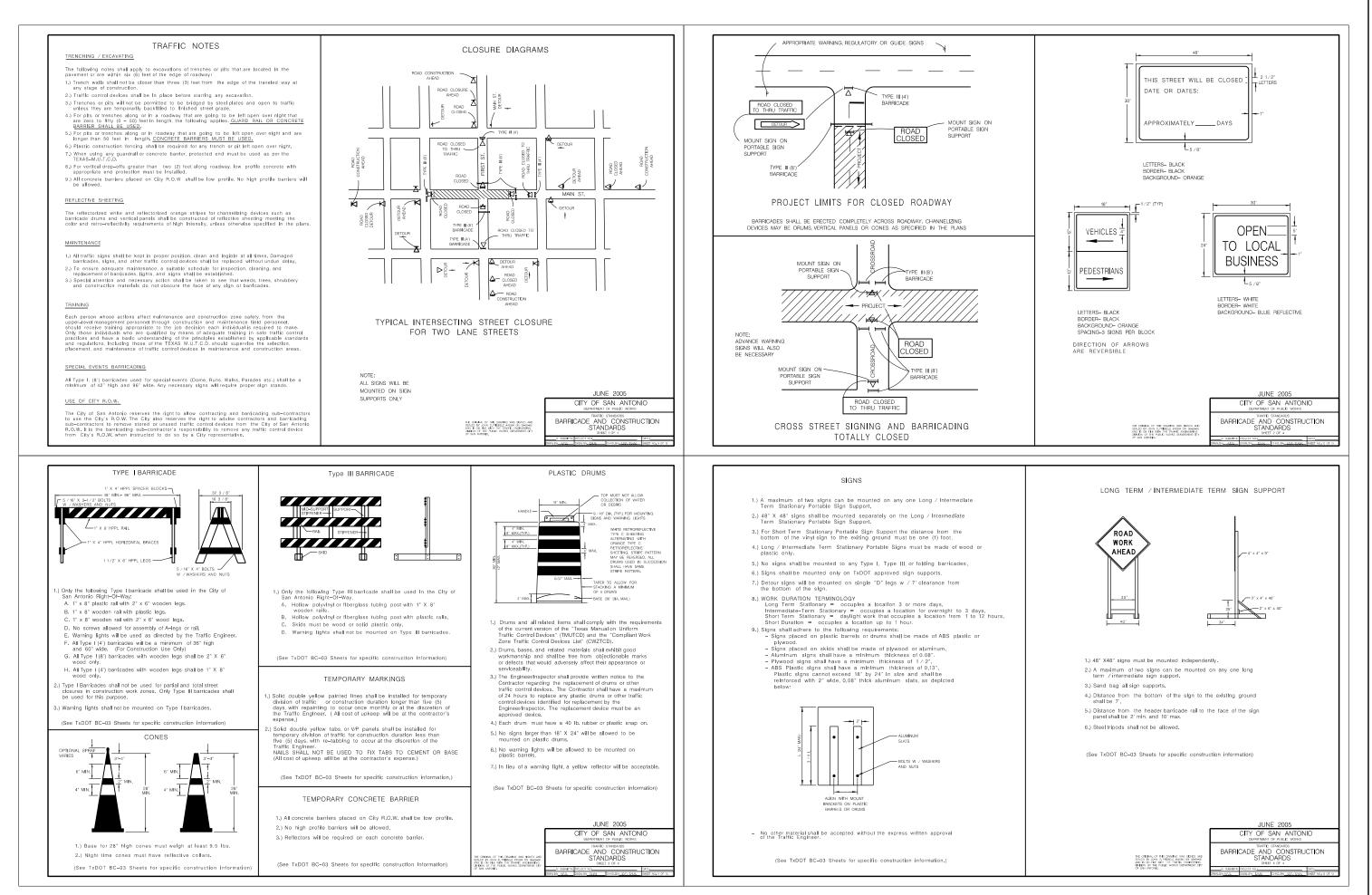






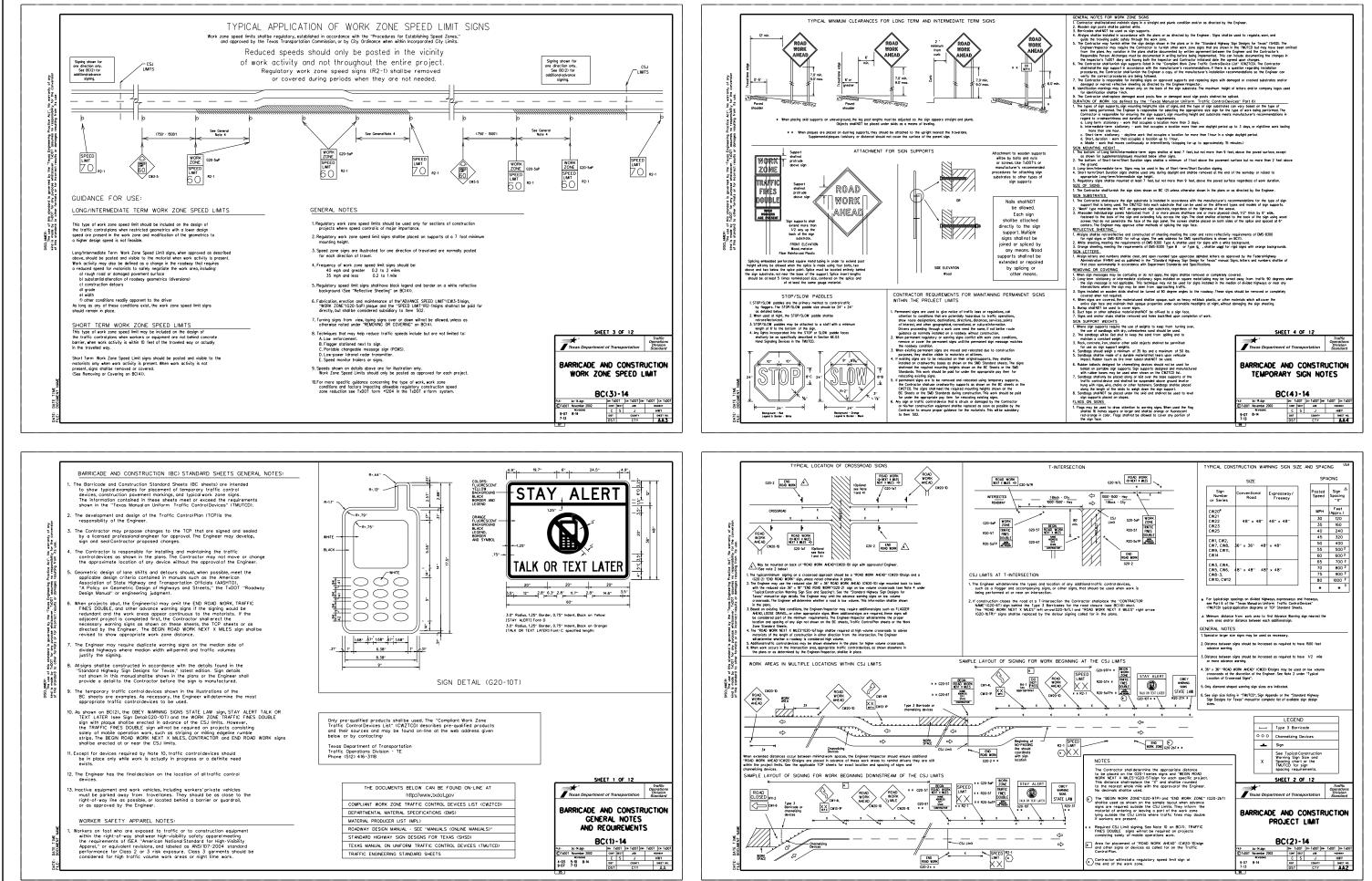
		75						400	
NO. DATE RE VISION APP. UNINTECH CONSULTING ENGINEERS, INC. UNINTECH CONSULTING ENGINEERS, INC. TBPE Reg. No. F-6499 Fax (210) 641-8023 TBPE Reg. No. F-6499 Fax (210) 641-8023									
	2019 SMP PACKAGE II (LYONS ST., SLIGO ST.) SAWS WATER WORK CONSTRUCTION STANDARDS								
DEVELOPER: CONT.									
SUBMITTED									
MAP No. 180544 & 182544					BUDGET PROJ. 33				
95% SUB	мітти	L	PROJECT	9 DATE:			7/27/2018		
DRAWN:	RP	DESI	GN: MP	CHECK: KW	с	SHEET NO : 13 OF 19			



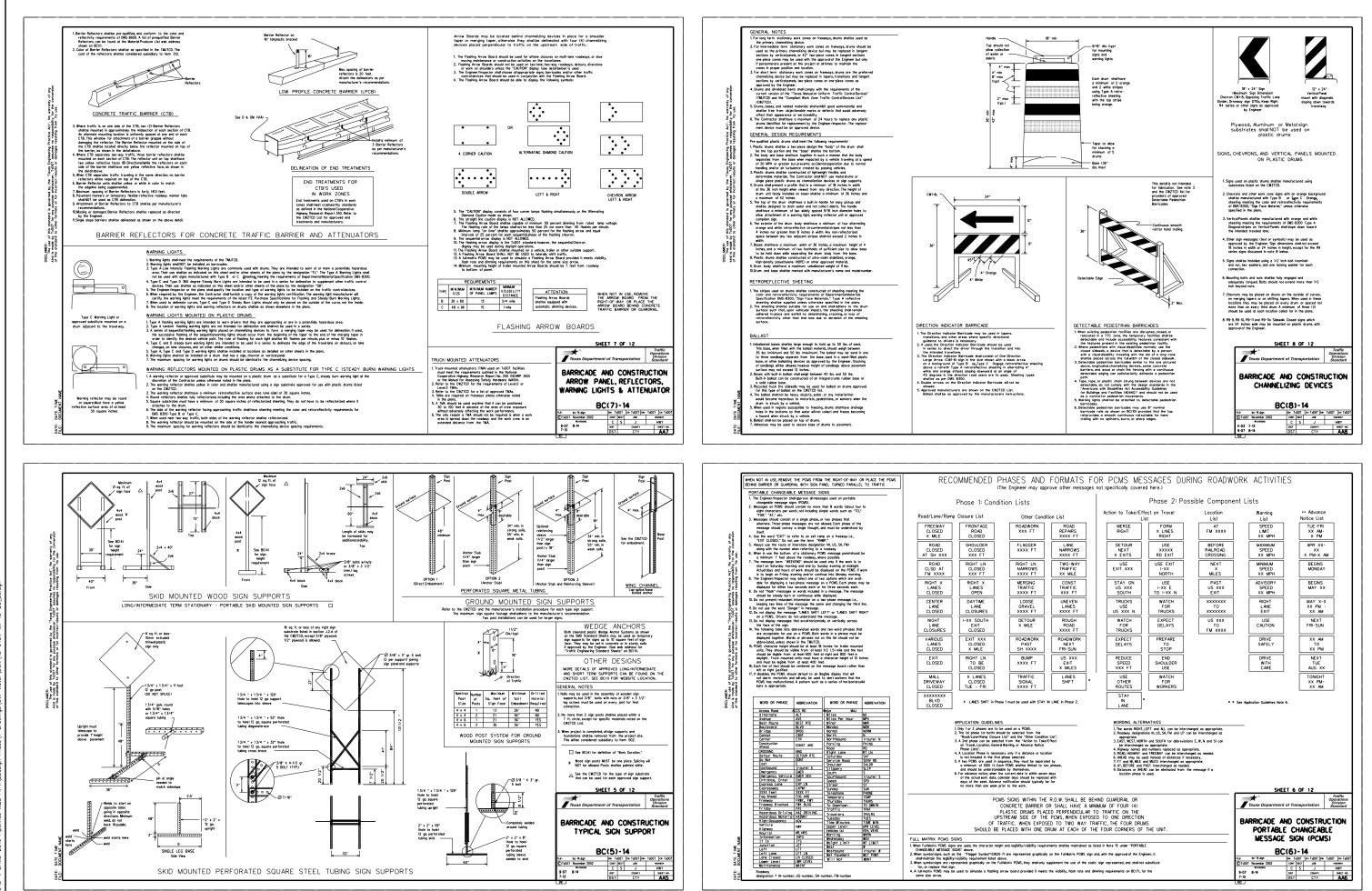


/2018 B=043-V SAWS-2019 Pipelines W&S Pk II\2Design Phase\1-Drawings\Util=Water\DGN\18-043V-wt-17_bcsad

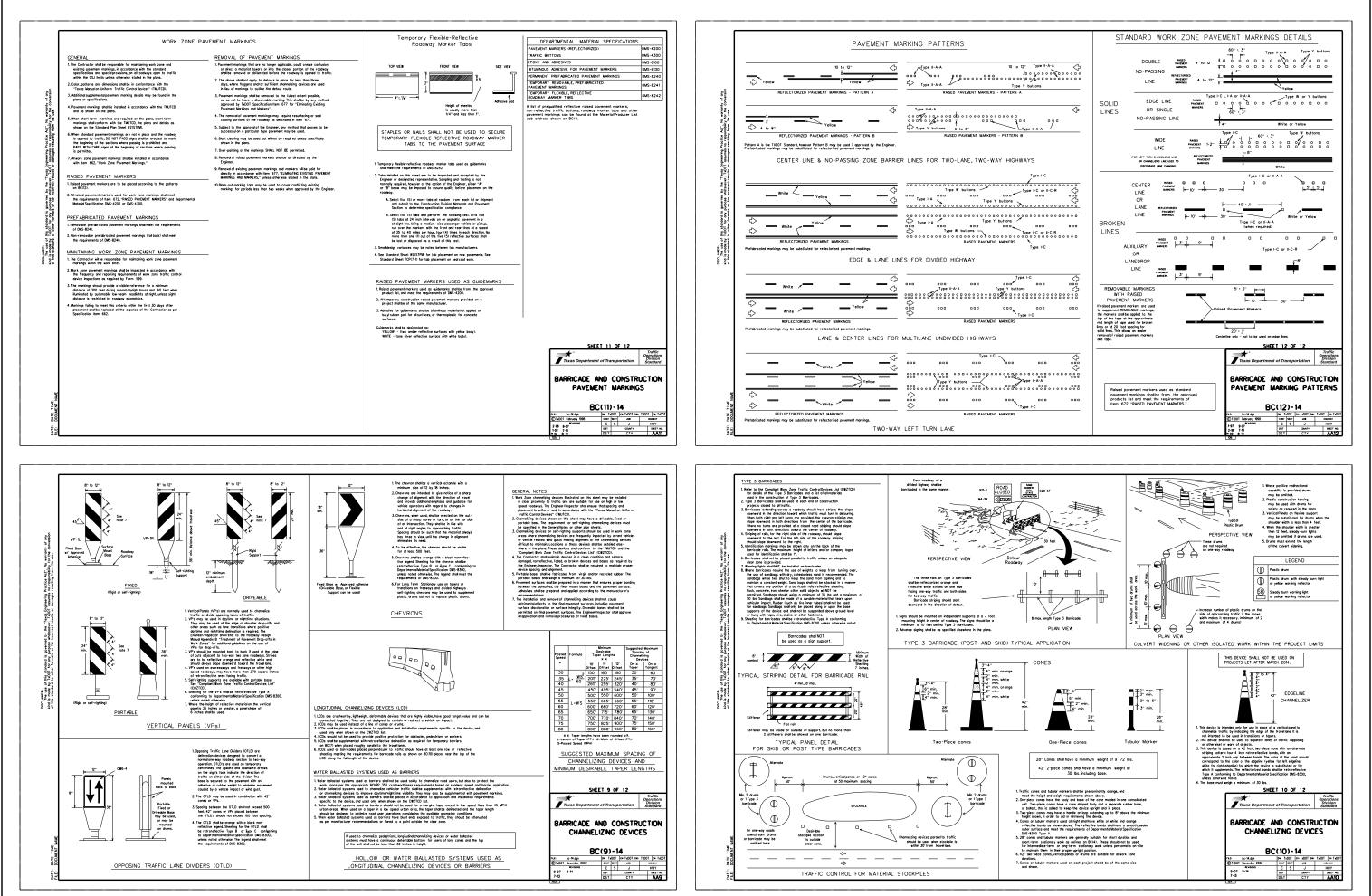
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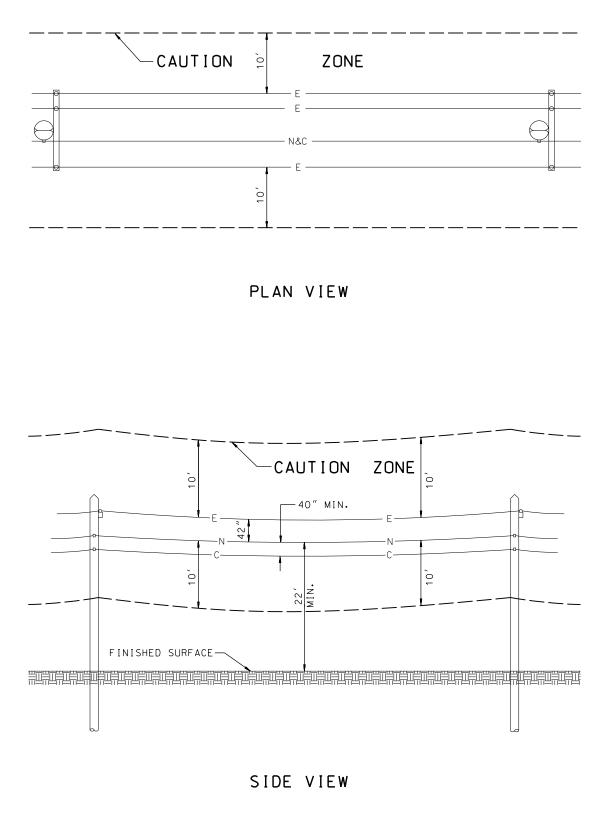
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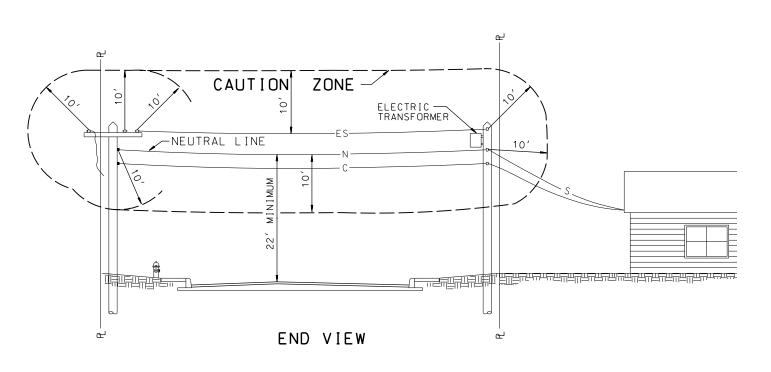


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2:40:29 2019 Pine





CPS ENERGY NOTES

- CALL CPS ENERGY LOCATOR AT 1-800-344-8377, 48 HOURS BEFORE BEGINNING ANY EXCAVATION. 1.
- DUE TO FEDERAL REGULATIONS TITLE 49, PART 192.181, CPS MUST MAINTAIN ACCESS TO GAS VALVES AT ALL TIMES. THE 2. CONTRACTOR MUST PROTECT AND WORK AROUND ANY GAS VALVES THAT ARE IN THE PROJECT AREA.
- OVERHEAD LINES EXIST IN THE WORK AREAS. THESE LINES MAY NOT HAVE BEEN MARKED ON THE DRAWINGS SINCE THEY ARE CLEARLY VISIBLE. THE CONTRACTOR SHALL ACTIVITIES IN WHICH PERSONS OR THINGS MAY CONSTRUCTION. TEXAS LAW, SECTION 752, HEALTH AND SAFETY CODE, FORBIDS ALL ACTIVITIES IN WHICH PERSONS OR THINGS MAY COME WITHIN TEN (10) FEET OF LIVE OVERHEAD HIGH VOLTAGE LINES. CONTRACTOR SHALL MAINTAIN A MINIMUM CLEARANCE OF 3' RADIUS FROM NEUTRAL AND 10' LINES
- THE CONTRACTOR IS LEGALLY RESPONSIBLE FOR THE SAFETY OF CONSTRUCTION WORKERS UNDER THIS LAW. THIS CARRIES BOTH CRIMINAL AND CIVIL LIABILITY. 4.
- 5. THE PERSON PERFORMING THE WORK, ACTIVITY, OR FUNCTION.
- 6. CONTRACTOR MAKES THE PAYMENT.
- CONTRACTOR SHALL CONTACT AND COORDINATE WITH CPS ENERGY REPRESENTATIVE FOR POLES TO BE BRACED AND LINES TO BE DE-ENERGIZED AND/OR MOVED. CONTRACTOR IS RESPONSIBLE TO CPS ENERGY FOR ANY COSTS ASSOCIATED WITH BRACING OF POWER POLES OR DE-ENERGIZING AND/OR MOVING ANY CONFLICTING OVERHEAD POWER LINES. 7.
- WHEN EXCAVATING WITHIN TWENTY FOUR INCHES (24") OF THE INDICATED LOCATION OF CPS ENERGY FACILITIES, ALL EXCAVATION MUST BE ACCOMPLISHED USING NON-MECHANIZED EXCAVATION PROCEDURES. 8.
- WHEN CPS ENERGY FACILITIES ARE EXPOSED, CONTRACTOR SHALL PROVIDE SUFFICIENT SUPPORT TO THE FACILITIES TO PREVENT 9. EXCESSIVE STRESS ON THE PIPING.
- THE CONTRACTOR IS FULLY RESPONSIBLE FOR ANY DAMAGES CAUSED BY THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND 10. PRESERVE THESE UNDERGROUND FACILITIES.



2 4.18.90 REMO 2/7/90 CHANG

- 5

RADIUS FROM PRIMARY BETWEEN PROPOSED TRAFFIC SIGNAL EQUIPMENT, INCLUDING SPAN WIRE, AND EXISTING OVERHEAD ELECTRICAL

CONTRACTOR SHALL NOT BEGIN WORK OR ACTIVITY UNTIL THE CONTRACTOR HAS NEGOTIATED A SATISFACTORY MUTUAL ARRANGEMENT WITH CPS ENERGY TO PROVIDE TEMPORARY DE-ENERGIZATION AND GROUNDING, TEMPORARY RELOCATION OR RAISING OF THE LINE, OR TEMPORARY MECHANICAL BARRIERS TO SEPARATE AND PREVENT CONTACT BETWEEN THE LINE AND THE MATERIAL OR EQUIPMENT OR

CONTRACTOR SHALL PAY CPS ENERGY THE ACTUAL EXPENSE INCURRED BY THE OPERATOR IN PROVIDING THE CLEARANCE PRESCRIBED IN THE AGREEMENT. CPS ENERGY MAY REQUIRE PAYMENT IN ADVANCE AND IS NOT REQUIRED TO PROVIDE THE CLEARANCE UNTIL THE

LEGEND

- --- ELECTRIC LINE
- ---- NEUTRAL LINE
- OTHER UTILITY CABLE

WORK CLEARANCE ZONES FOR CPS UTILITIES

- SERVICE									
	DRAWN: J.S.			DATE: 7/27/2018					
	CHECKED: C.Z.			SCALE: N.T.S.					
VED ALL UTILITIES EXCEPT C.P.S.	L.E.	C.Z.	J.K.	APPROVED: J.K.		SHEET NO: 19 OF 19			
GES DUE TO 1-24-90 MEETING	J.S.	C.Z.	J.K.	SYSTEM	١D	DRAWING NUMBER		CODE	
REVISION	BY	CK'D	APP	м	DP		11400		1000