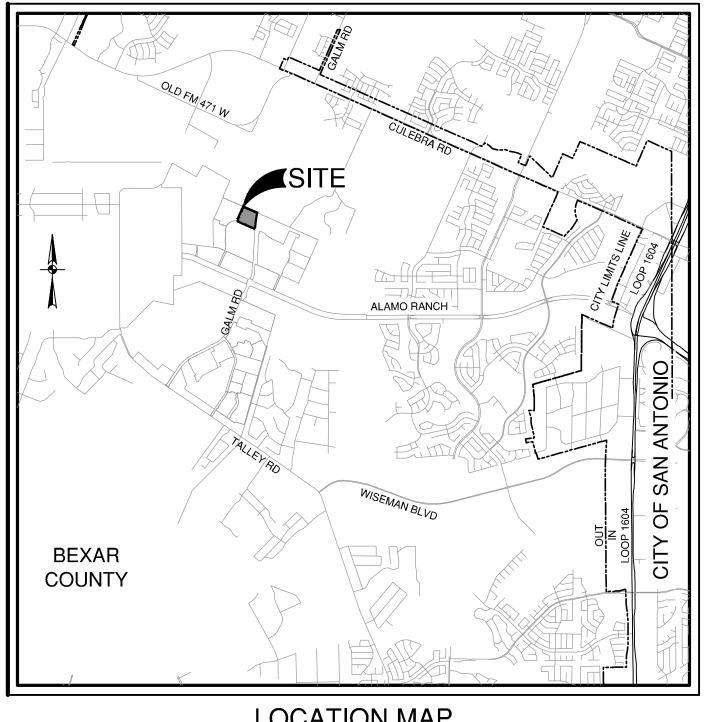
RIVERSTONE UNIT - G8 SAN ANTONIO, TEXAS **CIVIL CONSTRUCTION PLANS**

SHEET INDEX

Sheet Description	Sheet No.
COVER SHEET	C0.00
MASTER DRAINAGE PLAN	C1.00
DRAIN A PLAN & PROFILE	C1.01
DRAIN B PLAN & PROFILE	C1.02
DRAIN C PLAN & PROFILE	C1.03
DRAINAGE DETAILS	C1.10
PINE ISLAND BAYOU PLAN & PROFILE	C2.00
OLIVE ROCK RIDGE PLAN & PROFILE	C2.01
KIMBERLITE RIVER PLAN & PROFILE	C2.02
MUDSTONE PATH PLAN & PROFILE	C2.03
MALACHITE STREAM PLAN & PROFILE	C2.04
STREET DETAILS	C2.10
STREET DETAILS	C2.11
STREET DETAILS	C2.12
OVERALL SIGNAGE PLAN	C3.00
SIGNAGE DETAILS SHEET 1 OF 3	C3.10
SIGNAGE DETAILS SHEET 2 OF 3	C3.11
SIGNAGE DETAILS SHEET 3 OF 3	C3.12

HAS BEEN PRODUCED FROM MATERIAL THAT WAS STORED AND/OR TRANSMITTED ELECTRONICALLY AND MAY HAVE BEEN INADVERTENTLY ALTERED. RELY ONLY ON FINAL HARDCOPY MATERIALS BEARING THE CONSULTANT'S ORIGINAL SIGNATURE AND SEAL. AERIAL IMAGERY PROVIDED BY GOOGLE© UNLESS OTHERWISE NOTED. Imagery © 2015, CAPCOG, Digital Globe, Texas Orthoimagery Program, USDA Farm Service Ag



LOCATION MAP NOT-TO-SCALE

PREPARED FOR:

CONTINENTAL HOMES OF TEXAS, L.P. 5419 N LOOP 1604 E SAN ANTONIO, TX 78247



FEBRUARY 2023



FORT WORTH | DALLAS 2000 NW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000 TBPE FIRM REGISTRATION #470 I TBPLS FIRM REGISTRATION #10028800



DEVELOPER'S NAME: CON ADDRESS: 5419 N LOC CITY: SAN ANTONIO PHONE#<u>PHONE</u># SAWS BLOCK MAP# 0706 TOTAL LINEAR FOOTAGE (NUMBER OF LOTS <u>88</u>

SHEET INDEX

Sheet Description	Sheet No.
OVERALL WATER DISTRIBUTION PLAN	C4.00
WATER DISTRIBUTION PLAN DETAILS	C4.10
WATER DISTRIBUTION PLAN NOTES	C4.11
OVERALL SANITARY SEWER PLAN	C5.00
SANITARY SEWER LINE A PLAN & PROFILE	C5.01
SANITARY SEWER LINE B & C PLAN & PROFILE	C5.02
SANITARY SEWER LINE D PLAN & PROFILE	C5.03
SANITARY SEWER DETAILS	C5.10
SANITARY SEWER NOTES	C5.11
OVERALL UTILITY PLAN	C6.00
OVERALL GRADING PLAN	C7.00
STORM WATER POLLUTION PREVENTION PLAN	C8.00
STORM WATER POLLUTION PREVENTION PLAN DETAILS	C8.10

SEWER

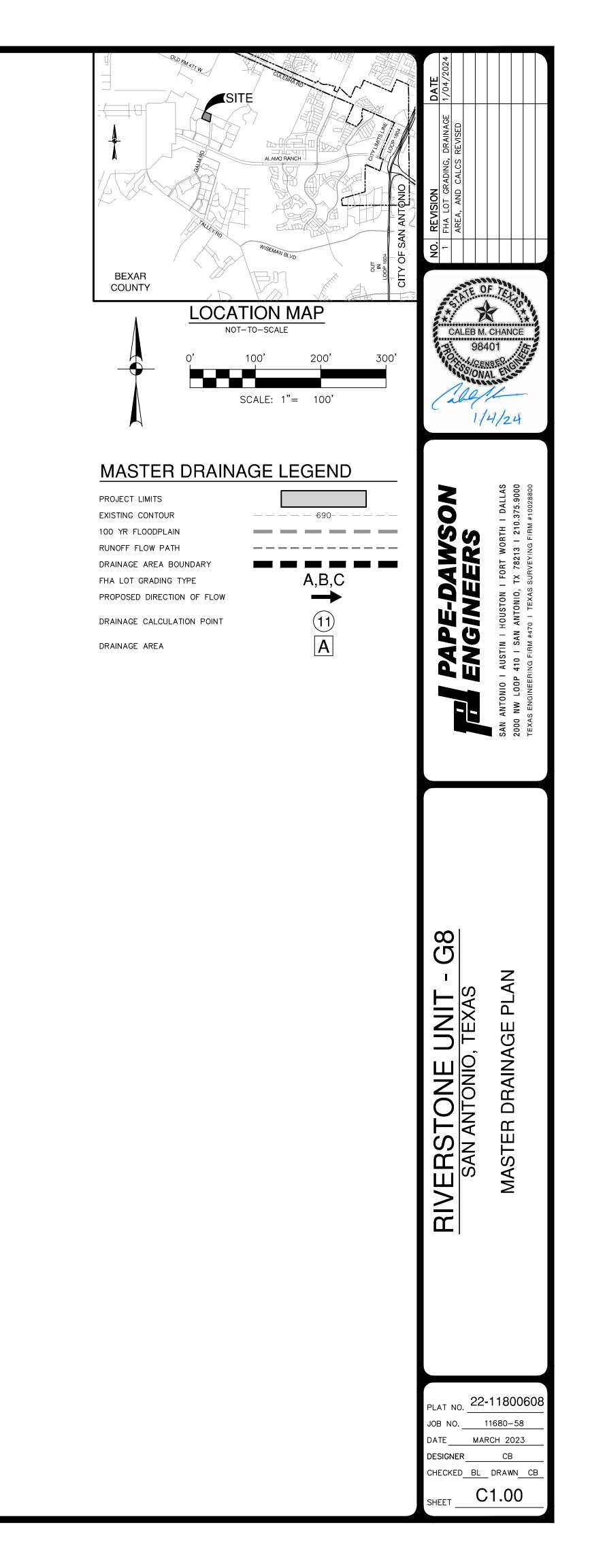
DE	/ELOPER'S NAME: <u>CONTI</u>	NENTAL HOMES OF TE	XAS, L.P.
	DRESS: 5419 N LOOP		
CIT	Y: SAN ANTONIO	STATE:TX	ZIP: <u>78247</u>
PH	DNE# <u>PHONE</u> #	FAX#	
SA	WS BLOCK MAP <u>#_070602</u>	TOTAL_EDU'S <u>8</u>	TOTAL ACREAGE <u>14.34</u>
то	AL LINEAR FOOTAGE OF	PIPE: <u>8"2,431 LF</u>	PLAT NO. 22-1180060
NU	MBER OF LOTS <u>88</u>	SAWS JOB NO.	22-1713

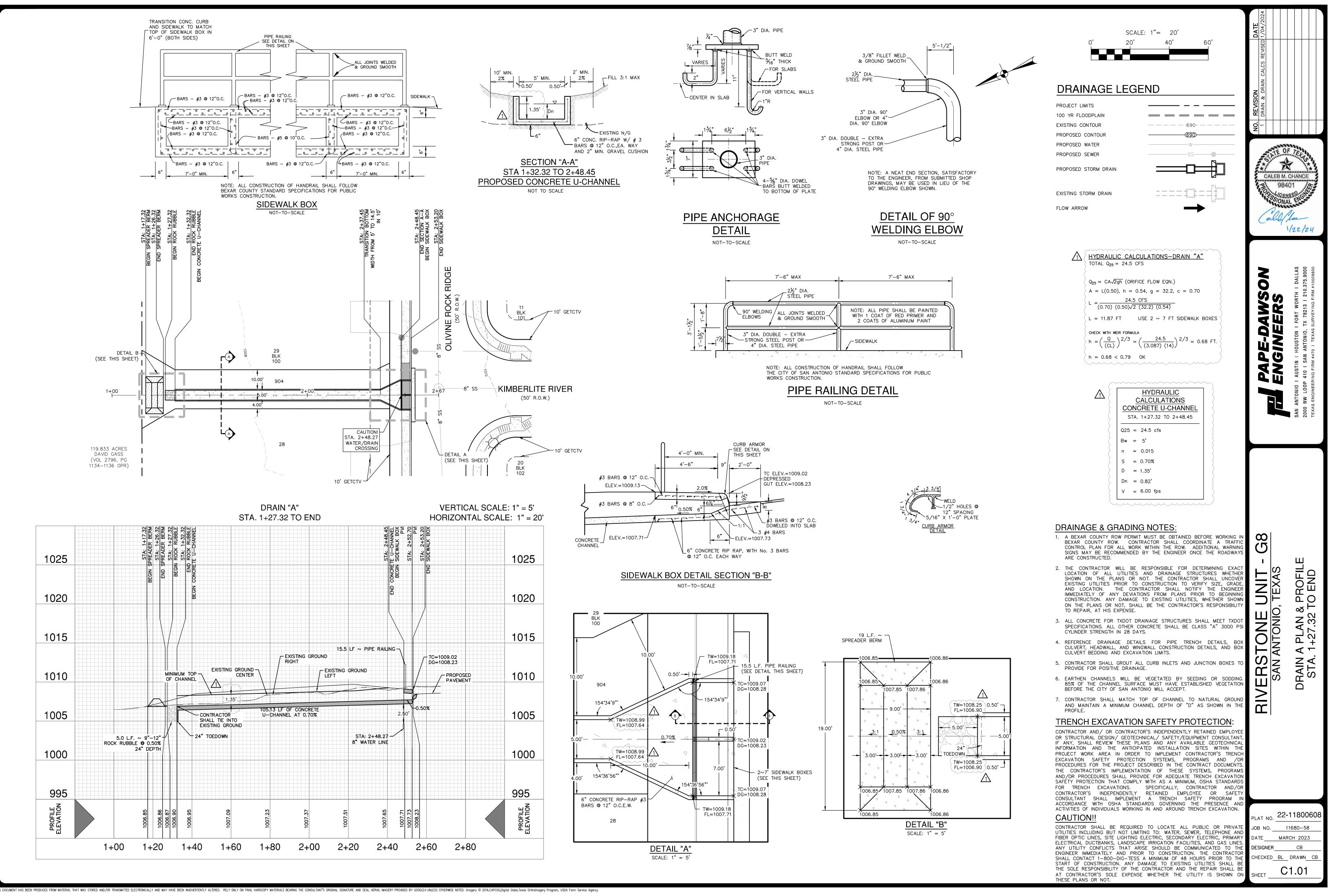
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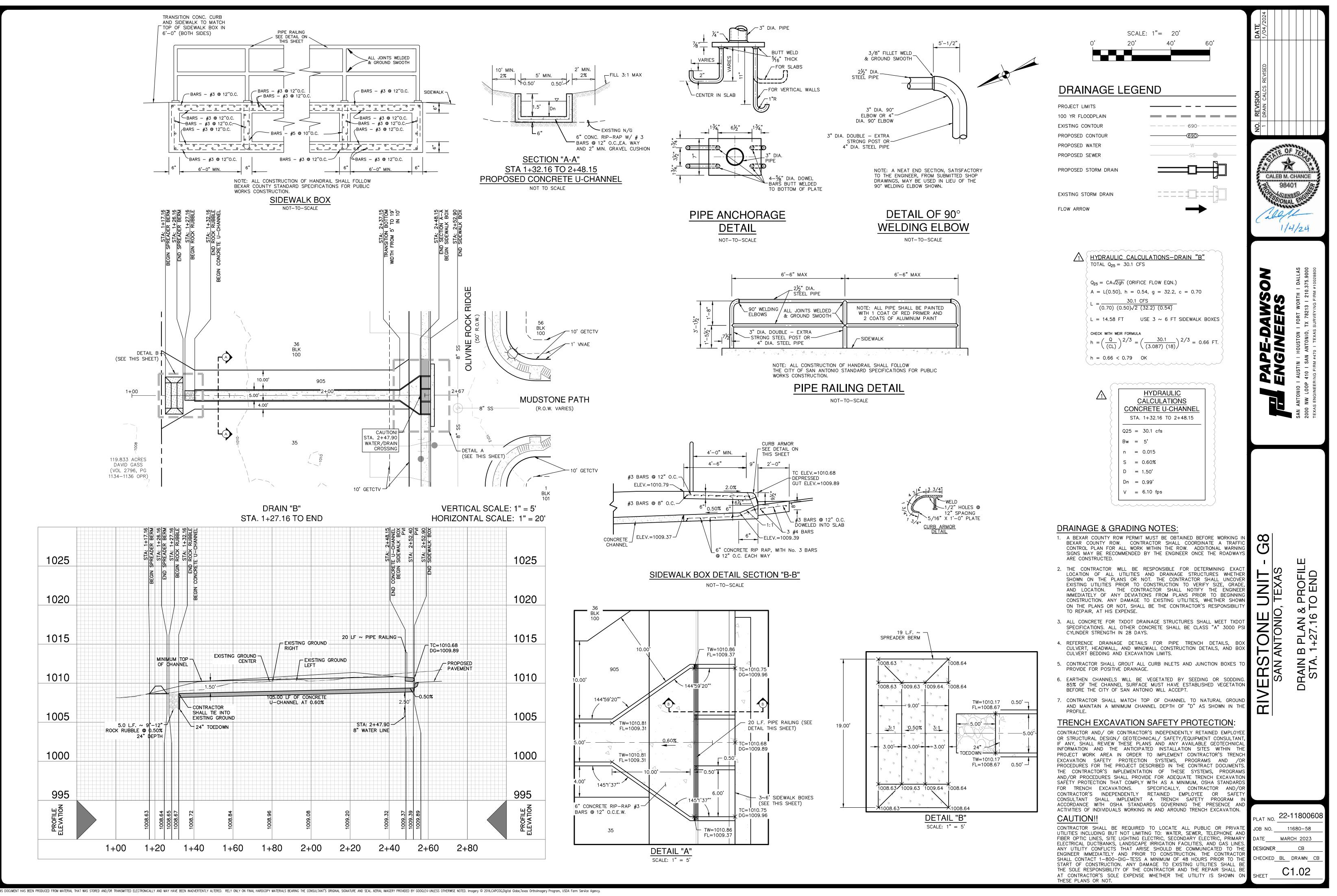
						Overlar	nd Flow		SI	hallow Cor	ncentrated		Channel F	low (6 fps)	Total						Curb Inlet
Poin	Structure	Area	Total Flow Length (ft)		Character of Ground	Slone %	L (ft)	Tc (min)	Slope %	L (ft)	Surface	Tc (min)	L (ft)	Tc (min)	Tc (min)	С	I	Q (cfs)	Frequency (yrs)	Total Q ₂₅ (Q+Intercept/Bypass)	Intercept Bypa
					× × × × ×					<u> </u>		<u> </u>		<u></u>		<u>~ ~ ~ ~ ~</u>	5.47	17.6	5)	
	Drain A	A	656	4.48	Avg. Grass	2.00%	100	12	2.00%	96	Unpaved	0.7	460	1.3	14	0.72	7.60	24.5	25	S	
>																	9.48	30.6	100)	
$\left\langle \right\rangle$																	5.66	21.6	5	\rangle	
2	Drain B	В	595	5.30	Avg. Grass	2.00%	100	12	2.00%	98	Unpaved	0.7	397	1.1	13	0.72	7.89	30.1	25	2	
													mm			~ ~ ~ ~ ~ ~	9.85	37.6	100)	
																	6.08	4.2	5		
3	Drain C	C	325	0.97	Avg. Grass	2.00%	66	11	2.00%	0	Unpaved	0.0	259	0.7	11	0.72	8.50	5.9	25		
																	10.64	7.4	100		

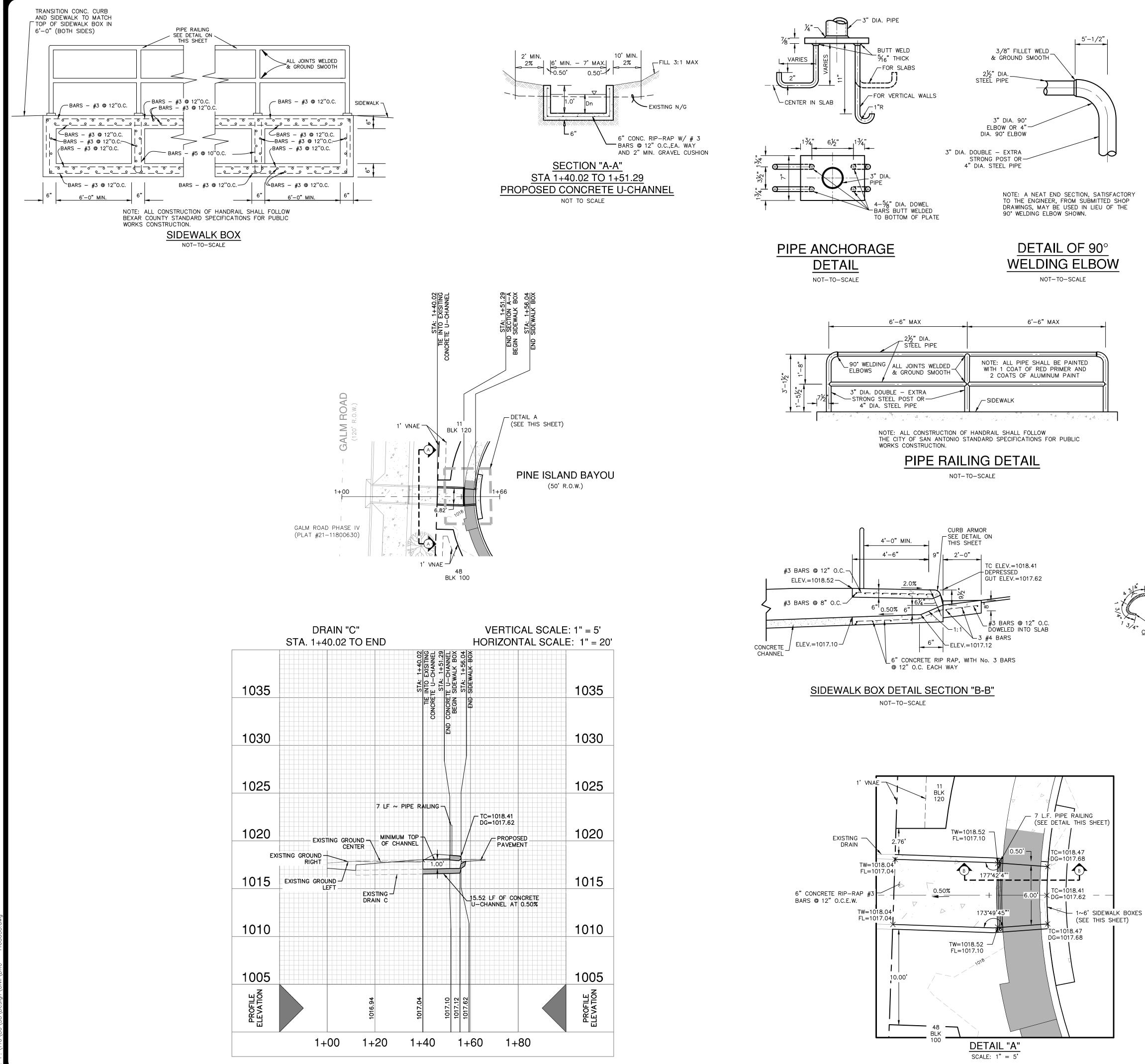




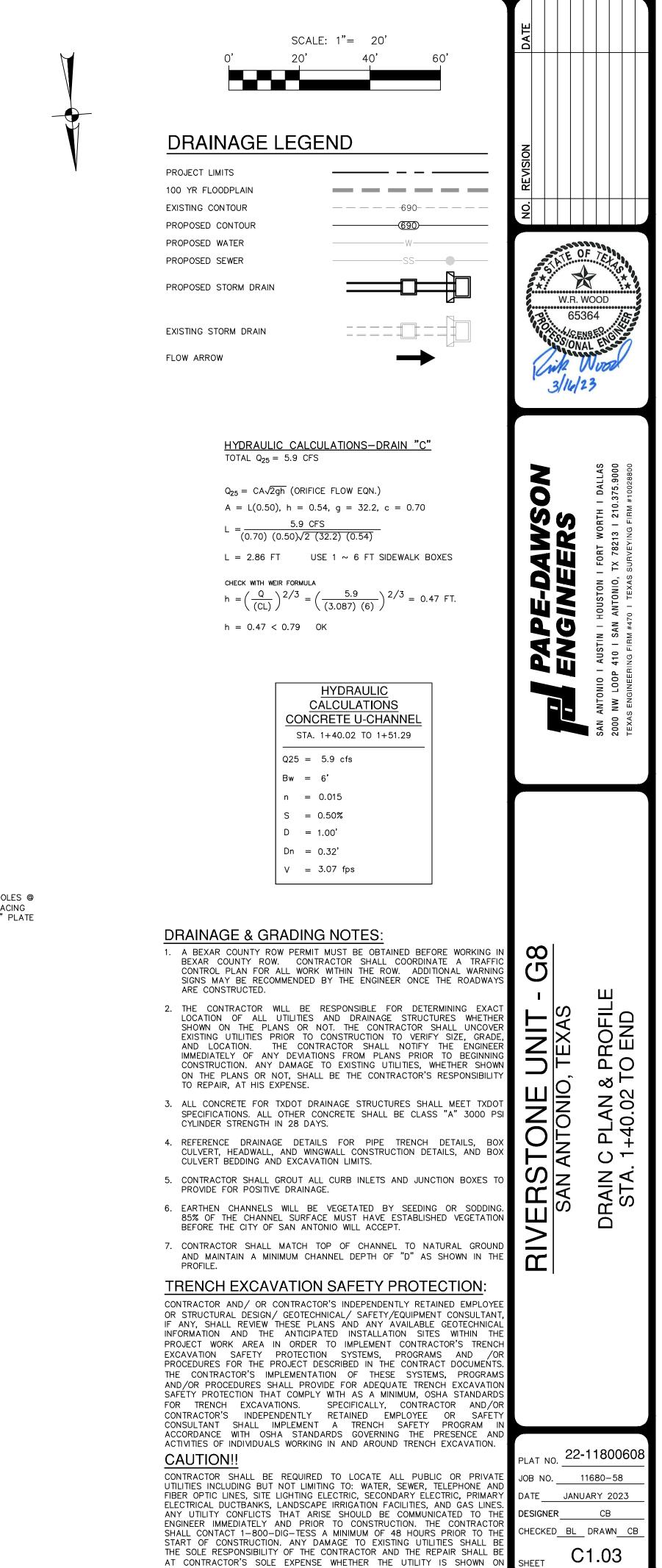




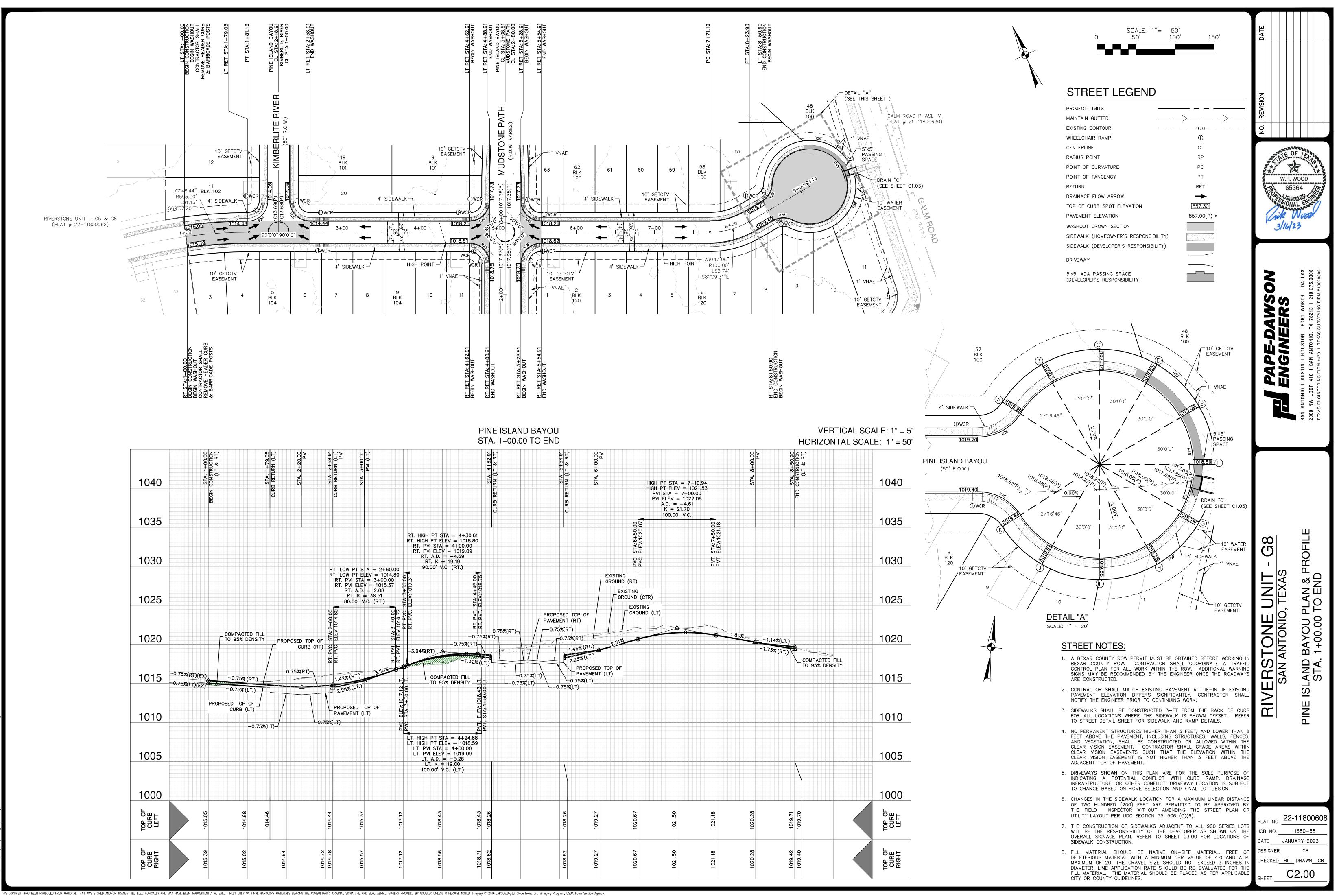




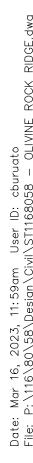
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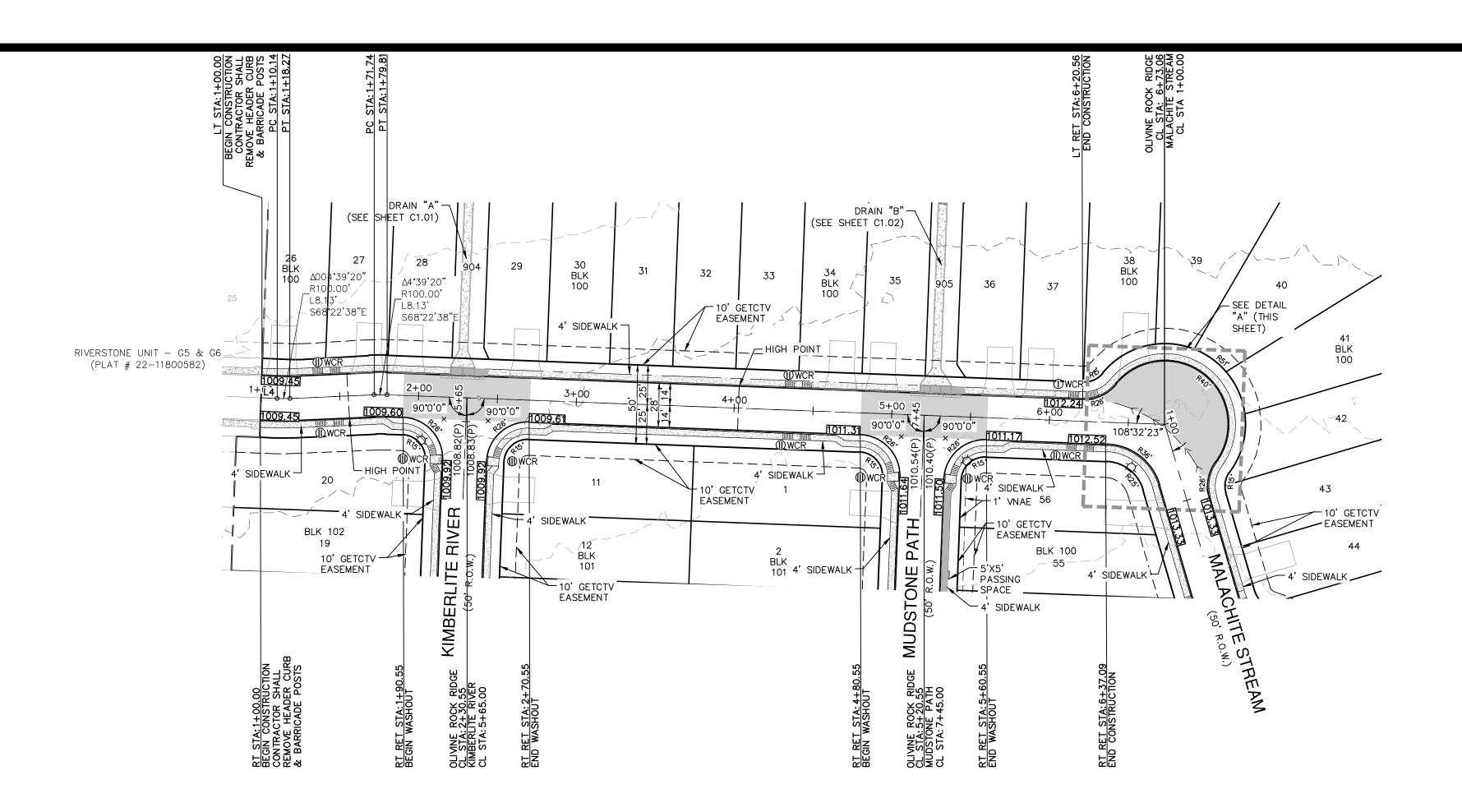
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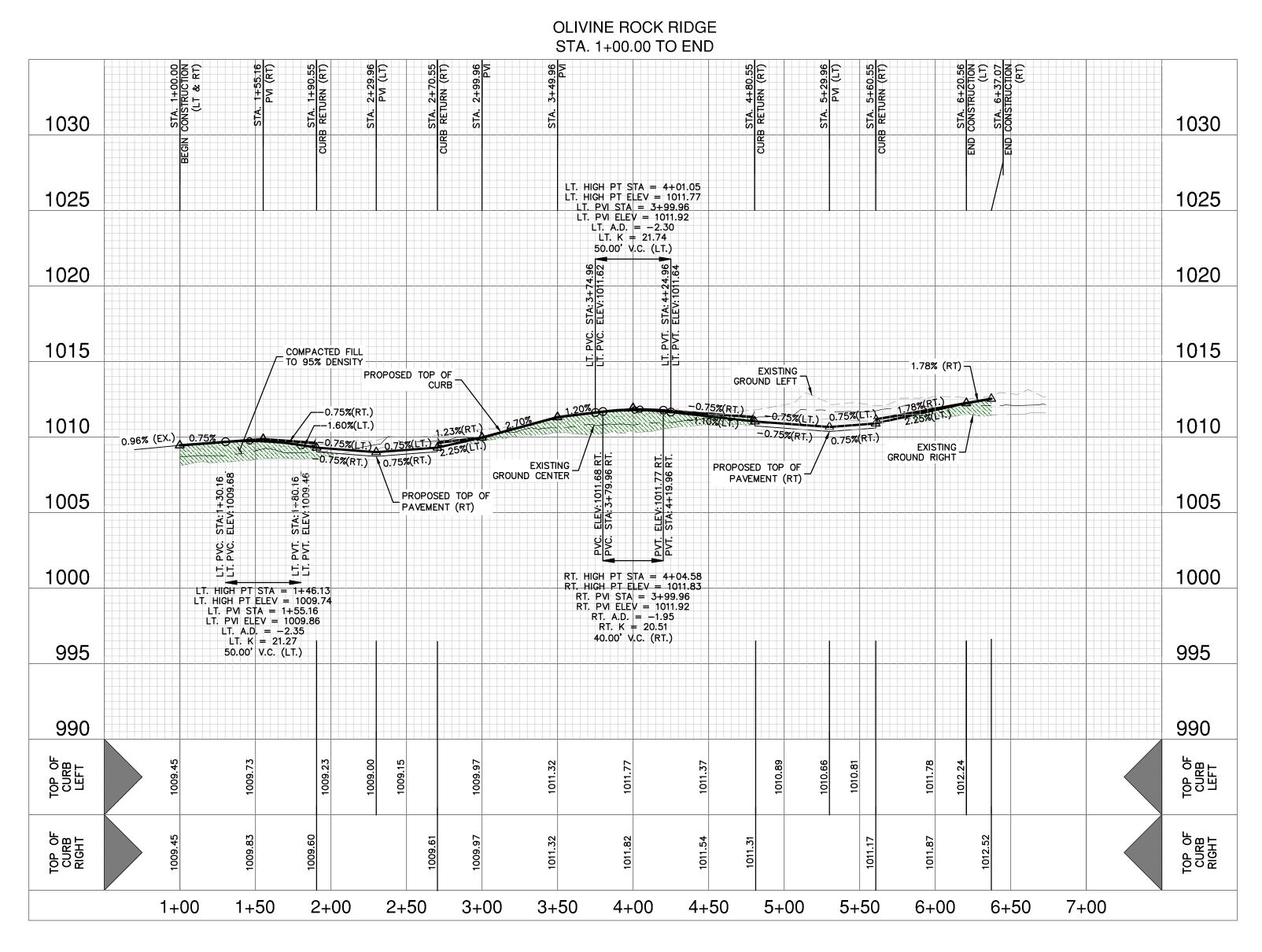


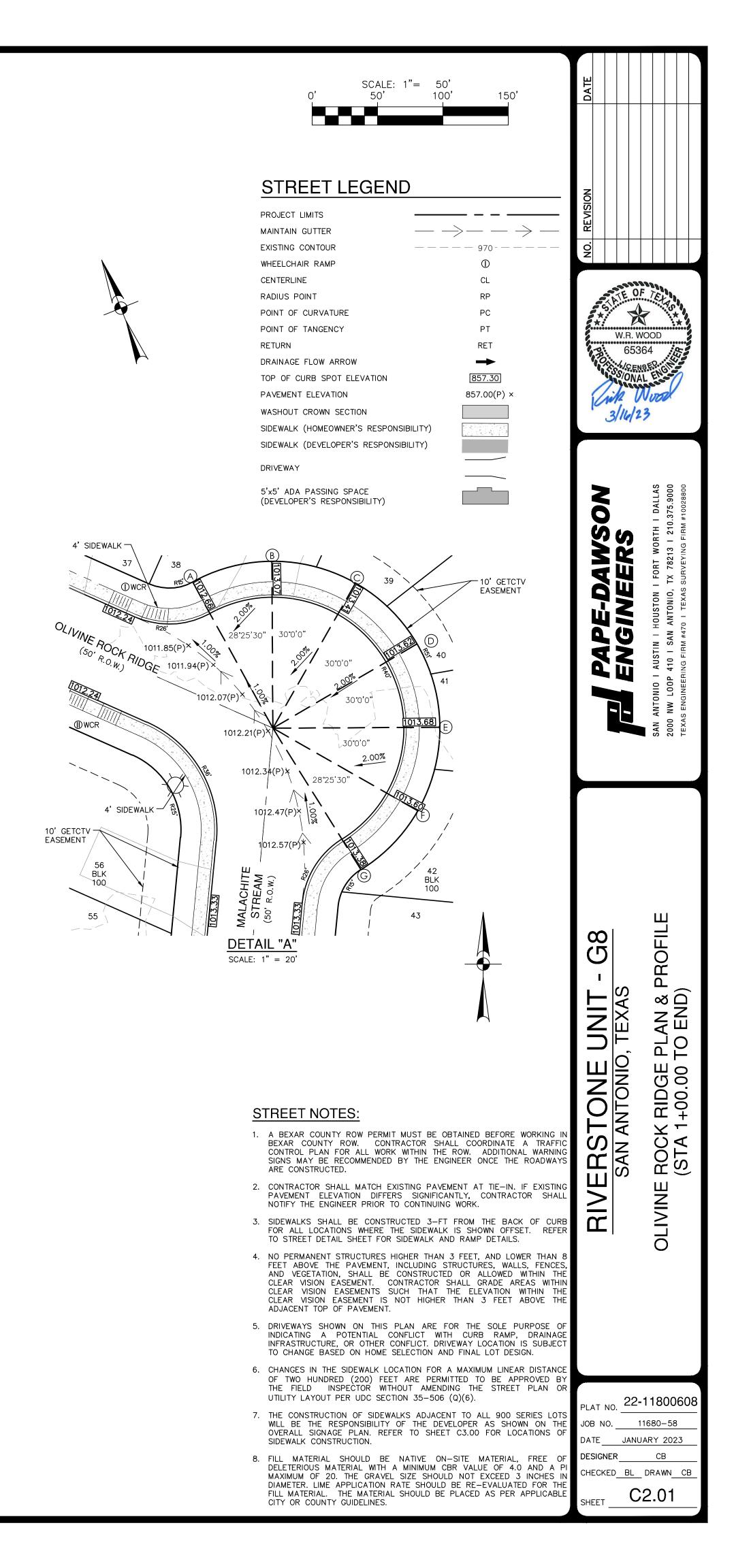
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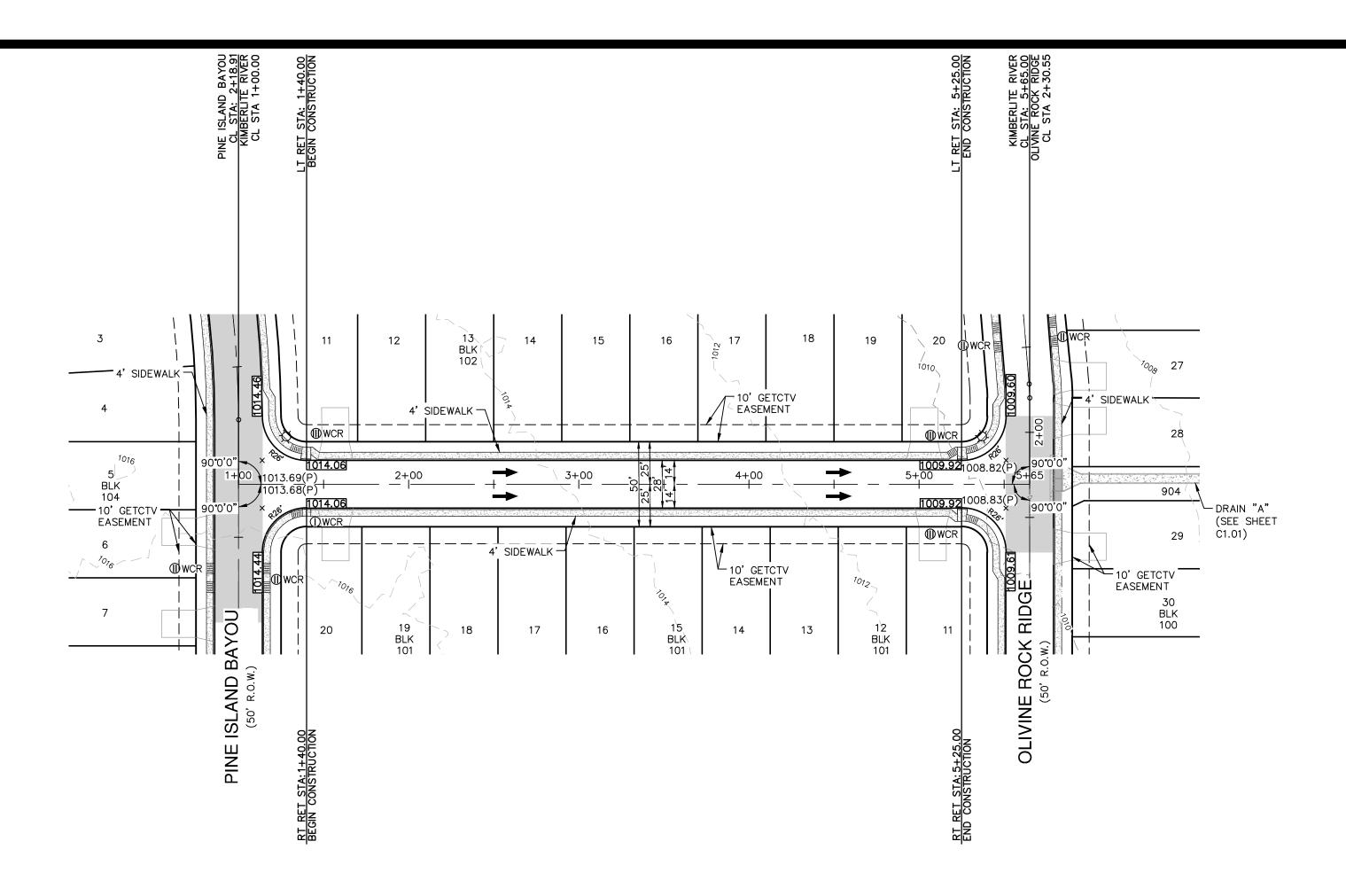


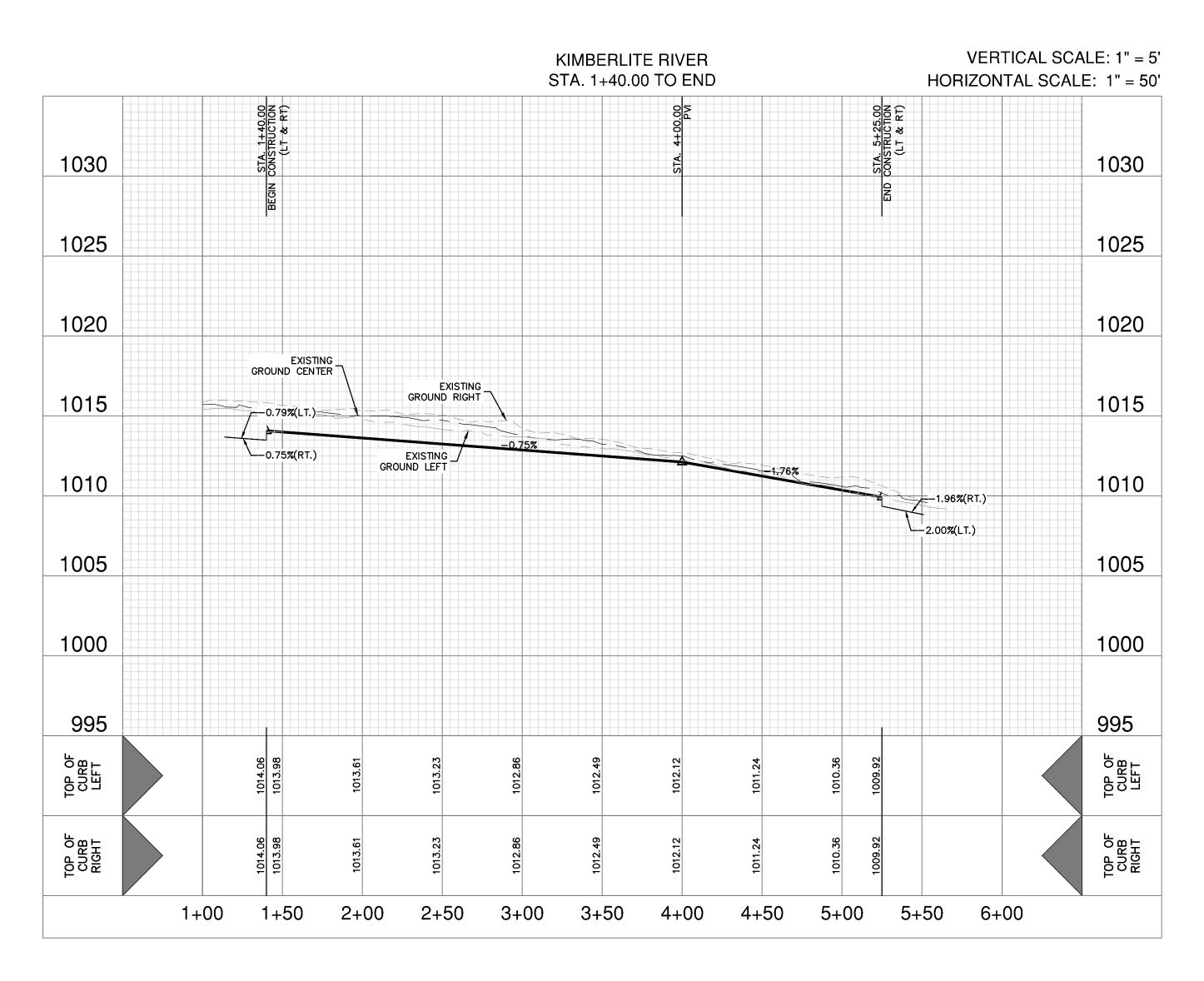


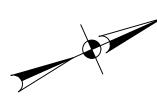


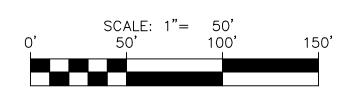












STREET LEGEND

PROJECT LIMITS	
MAINTAIN GUTTER	$\rightarrow \rightarrow -$
EXISTING CONTOUR	— — — 970 - — — — –
WHEELCHAIR RAMP	\odot
CENTERLINE	CL
RADIUS POINT	RP
POINT OF CURVATURE	PC
POINT OF TANGENCY	PT
RETURN	RET
DRAINAGE FLOW ARROW	→
TOP OF CURB SPOT ELEVATION	857.30
PAVEMENT ELEVATION	857.00(P) ×
WASHOUT CROWN SECTION	
SIDEWALK (HOMEOWNER'S RESPONSIBILITY)	
SIDEWALK (DEVELOPER'S RESPONSIBILITY)	
DRIVEWAY	



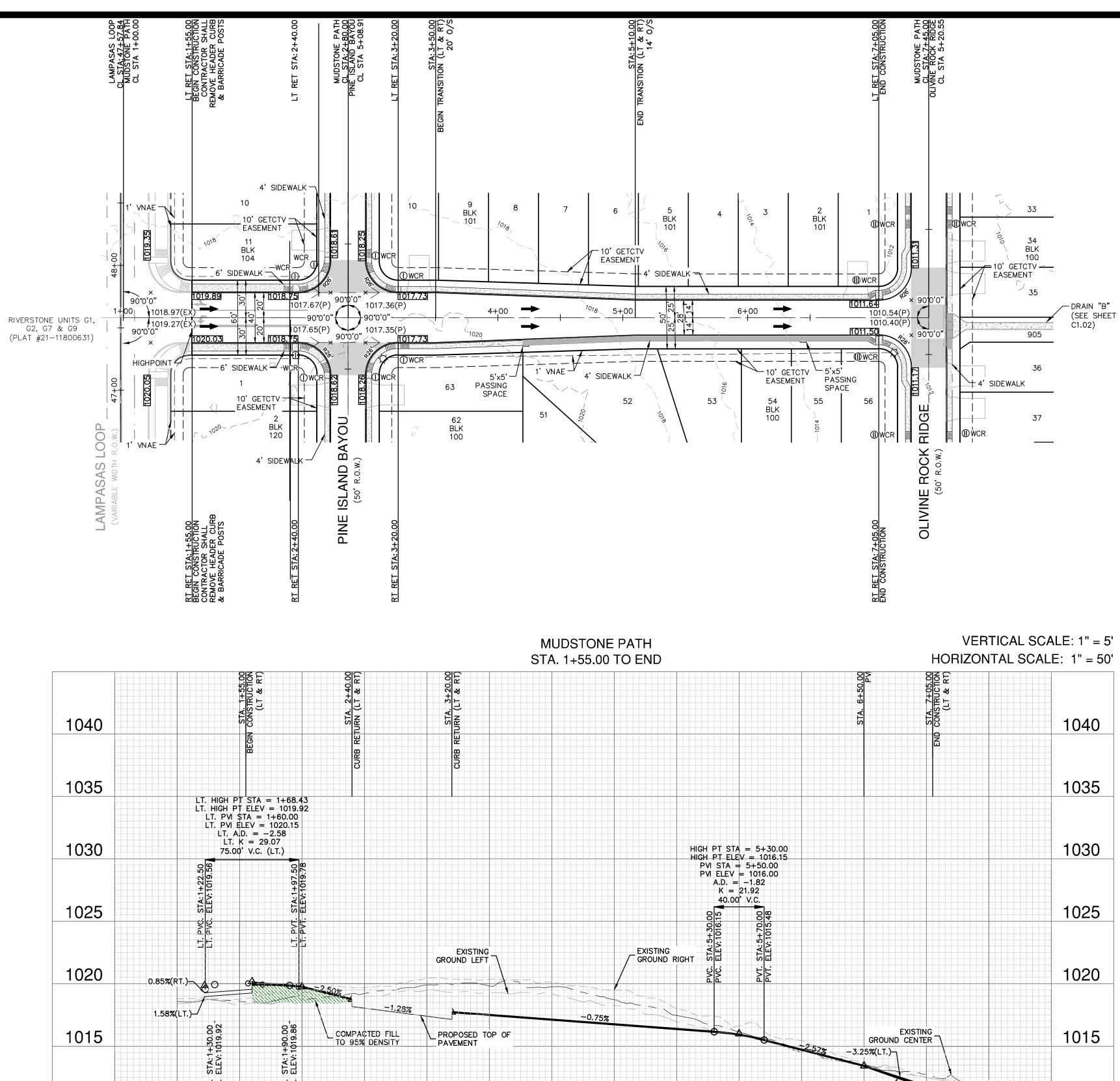
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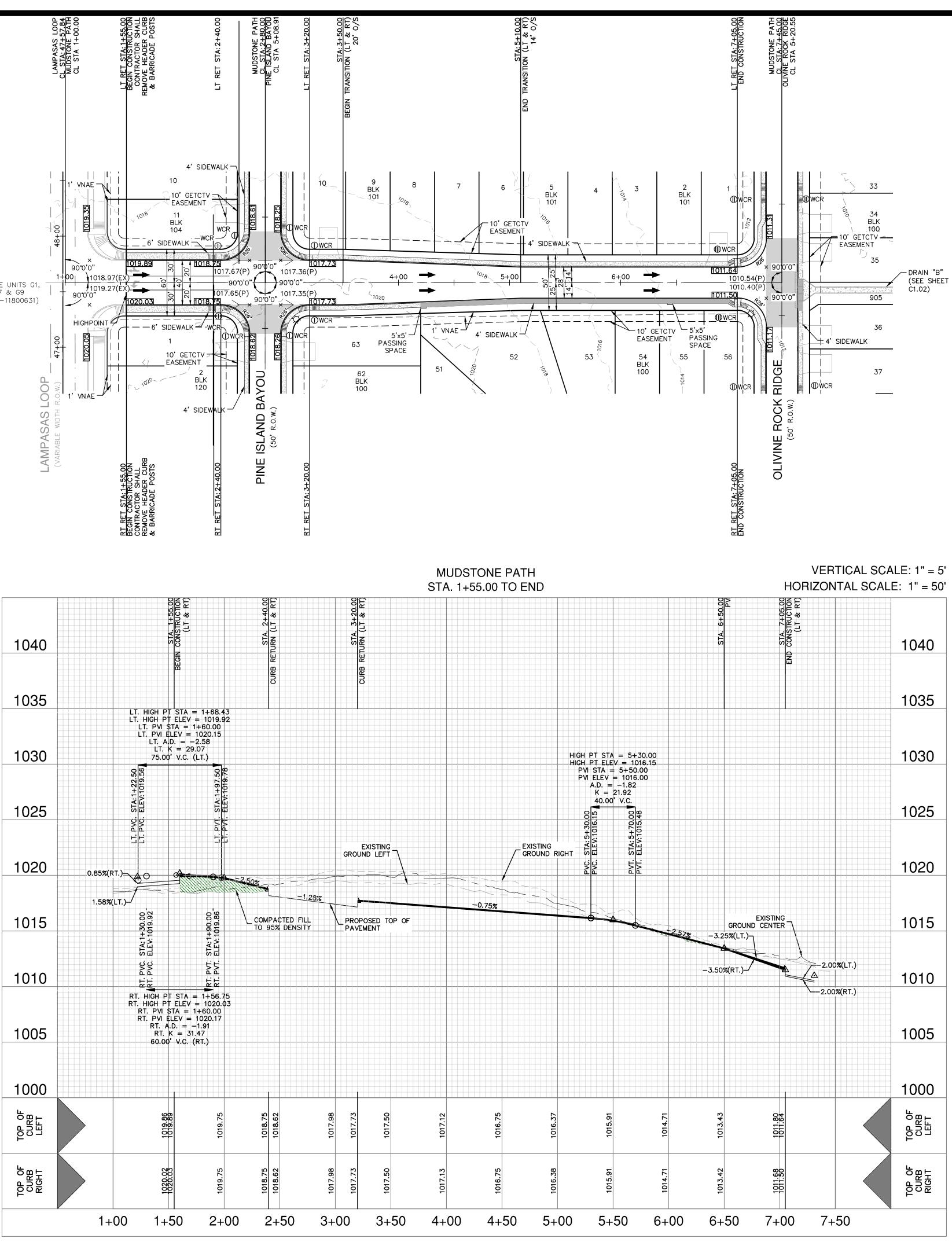
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- 2. CONTRACTOR SHALL MATCH EXISTING PAVEMENT AT TIE-IN. IF EXISTING PAVEMENT ELEVATION DIFFERS SIGNIFICANTLY, CONTRACTOR SHALL NOTIFY THE ENGINEER PRIOR TO CONTINUING WORK.
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ENGINEERS	SAN ANTONIO I AUSTIN I HOUSTON I FORT WORTH I DALLAS 2000 NW LOOP 410 I SAN ANTONIO, TX 78213 I 210.375.9000 texas engineering firm #470 i texas surveying firm #10028800
RIVERSTONE UNIT - G8	KIMBERLITE RIVER PLAN & PROFILE
SAN ANTONIO, TEXAS	STA. 1+40.00 TO END

PLAT NO.	22-11800608
JOB NO	11680-58
DATE	JANUARY 2023
	СВ
CHECKED_	BL DRAWN CB
SHEET	C2.02





0'	SCALE: 50'	1"= 50 10	0' 0' 15	0'

STREET LEGEND

PROJECT LIMITS	
MAINTAIN GUTTER	$\rightarrow \rightarrow$
EXISTING CONTOUR	— — — 970 - — — -
WHEELCHAIR RAMP	\bigcirc
CENTERLINE	CL
RADIUS POINT	RP
POINT OF CURVATURE	PC
POINT OF TANGENCY	PT
RETURN	RET
DRAINAGE FLOW ARROW	
TOP OF CURB SPOT ELEVATION	857.30
PAVEMENT ELEVATION	857.00(P) ×
WASHOUT CROWN SECTION	
SIDEWALK (HOMEOWNER'S RESPONSIBILITY)	
SIDEWALK (DEVELOPER'S RESPONSIBILITY)	
DRIVEWAY	
5'x5' ADA PASSING SPACE (DEVELOPER'S RESPONSIBILITY)	



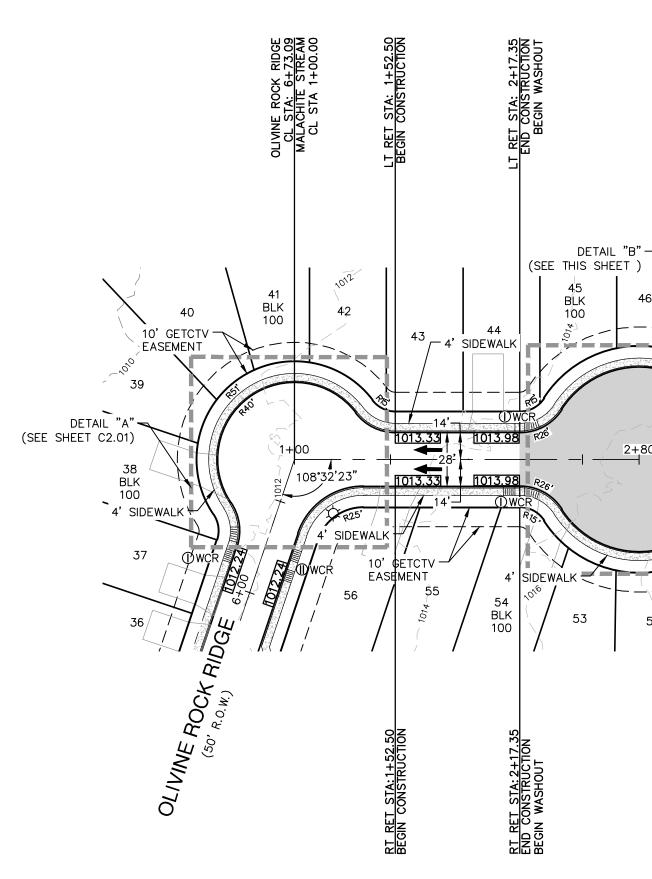
PAPE-DAWSON ENGINEERS

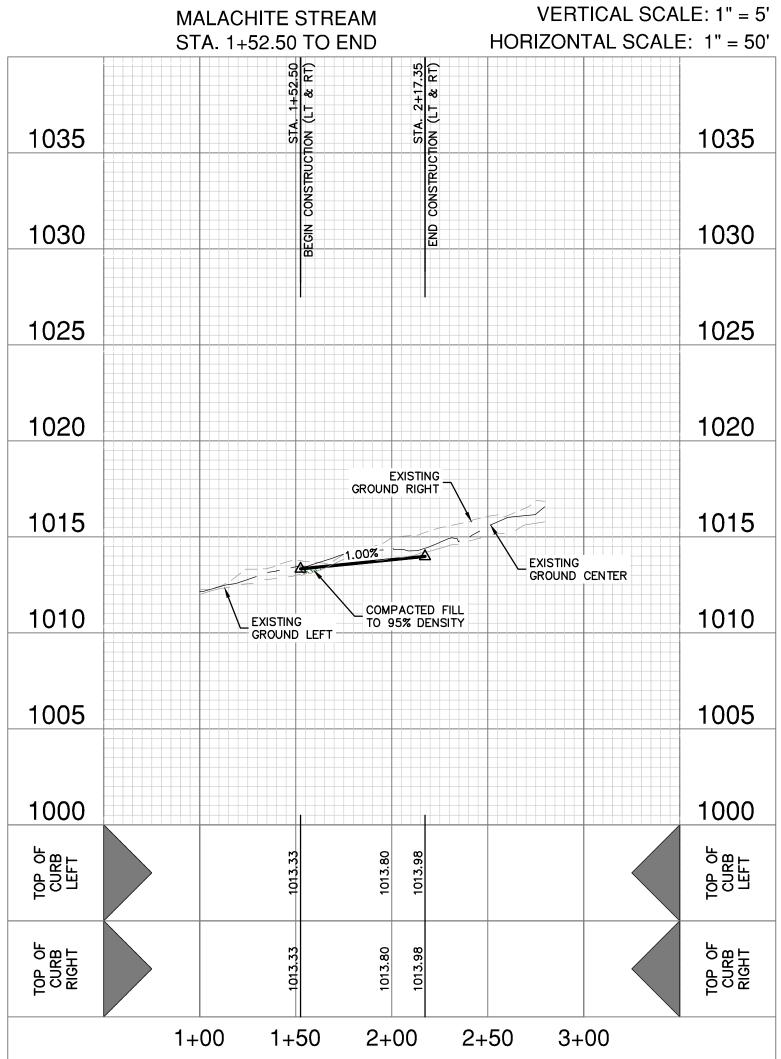
STREET NOTES:

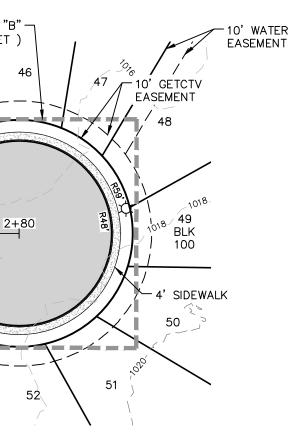
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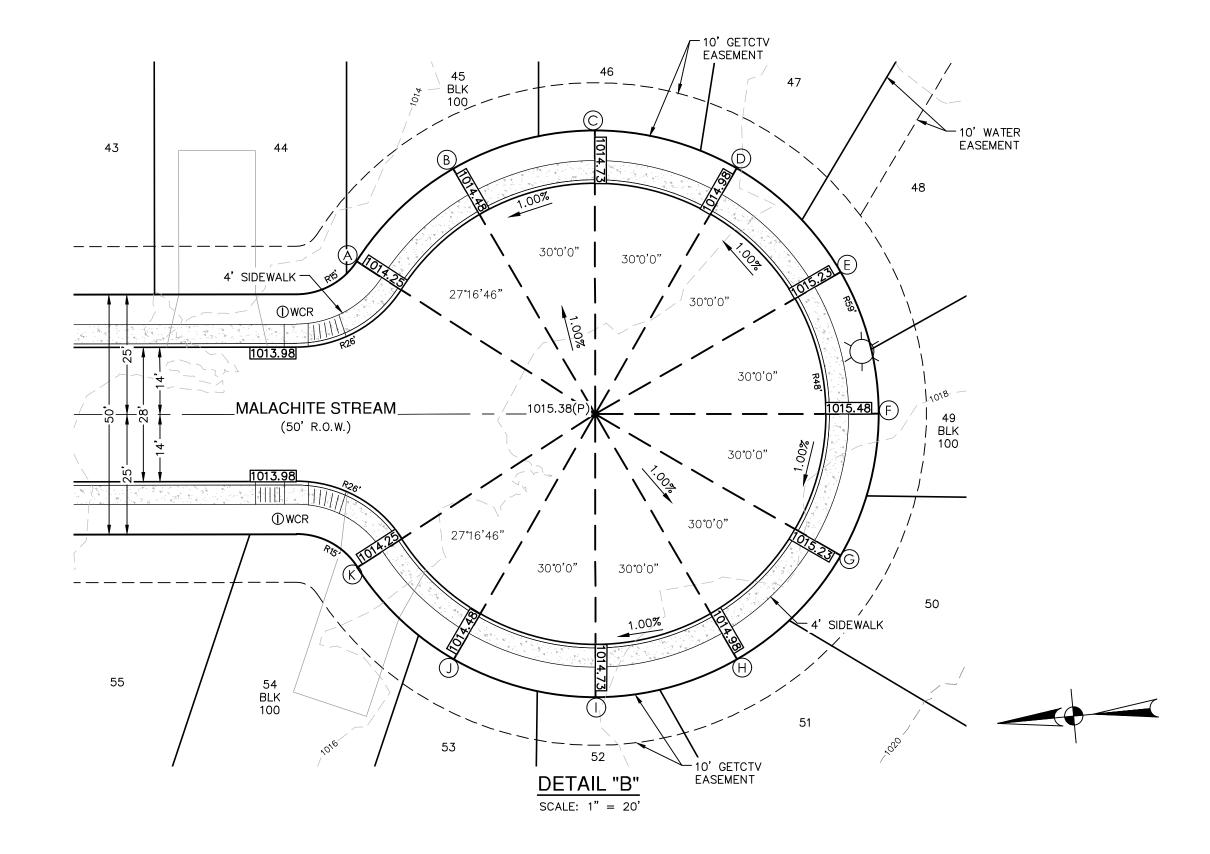
PLAT NO.	22-11800608
JOB NO	11680-58
DATE	JANUARY 2023
	СВ
CHECKED_	BL DRAWN CB
SHEET	C2.03

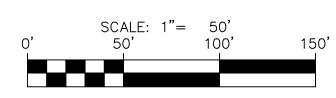








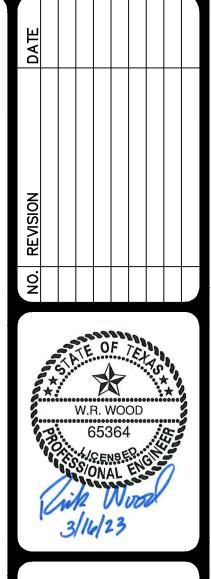






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PROJECT LIMITS	
MAINTAIN GUTTER	$\rightarrow \rightarrow$
EXISTING CONTOUR	970
WHEELCHAIR RAMP	\bigcirc
CENTERLINE	CL
RADIUS POINT	RP
POINT OF CURVATURE	PC
POINT OF TANGENCY	PT
RETURN	RET
DRAINAGE FLOW ARROW	
TOP OF CURB SPOT ELEVATION	857.30
PAVEMENT ELEVATION	857.00(P) ×
WASHOUT CROWN SECTION	
SIDEWALK (HOMEOWNER'S RESPONSIBILITY)	
SIDEWALK (DEVELOPER'S RESPONSIBILITY)	
DRIVEWAY	

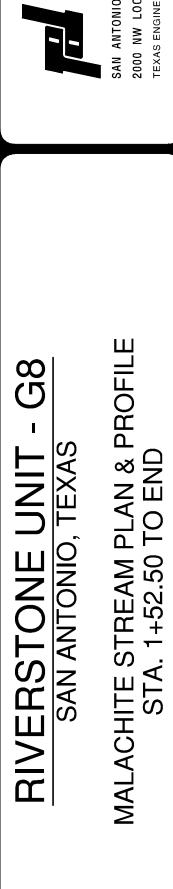


PAPE-DAWSON ENGINEERS

75.900(



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22-11800608
11680-58
JANUARY 2023
СВ
BL DRAWN CB
C2.04

		PAV	EMENT SE	CTION DE	TAIL		
STREET NAME	STATION	TYPE "D" HMAC	CRUSHED LIMESTONE BASE	SUBGRADE	GEOGRID (TENSAR TRIAX TX5)	CBR	STRUCTURAL NUMBER
MUDSTONE PATH	1+55.00 TO 5+10.00	3"	19"	*	NO	4	3.98
MUDSTONE PATH	5+10.00 TO END	2"	10"	*	NO	4	2.28
PINE ISLAND BAYOU	1+00.00 TO END	2"	10"	*	NO	4	2.28
OLIVINE ROCK RIDGE	1+00.00 TO END	2"	10"	*	NO	4	2.28
KIMBERLITE RIVER	1+40.00 TO END	2"	10"	*	NO	4	2.28
MALACHITE STREAM	1+52.50 TO END	2"	10"	*	NO	4	2.28

SUBGRADE NOTES (*):

1. CUT AND FILL DATA ARE NOT AVAILABLE AT THIS TIME

2. BASED ON THE REVIEW OF GEOLOGIC AND SOILS MAP, WE ANTICIPATE THE FINAL PAVEMENT SUBGRADE PLASTICITY INDEX VALUE TO BE LESS THAN OR EQUAL TO 20.

3. IF THE SUBGRADE PLASTICITY INDEX VALUES ARE LESS THAN OR EQUAL TO 20, AS PER CITY OF SAN ANTONIO OR BEXAR COUNTY REQUIREMENTS, SUBGRADE STABILIZATION IS NOT NEEDED.

4. IF FILL IS USED TO RAISE THE GRADE, FILL MATERIAL UNDERNEATH THE PAVEMENT SHOULD BE APPROVED FILL MATERIAL, FREE OF DELETERIOUS MATERIAL AND WITH A MINIMUM CBR VALUE OF 4.0 AND A MAXIMUM PLASTICITY INDEX VALUE OF 20. THE MATERIAL SHOULD BE PLACED AS PER APPLICABLE CITY OR COUNTY GUIDELINES

5. HOWEVER, IF THE FINAL STREET SUBGRADE PLASTICITY INDEX VALUES ARE GREATER THAN 20, THEN ONE OF THE FOLLOWING OPTIONS MAY BE FOLLOWED:

•REMOVE THE CLAYS SOILS (WITH PLASTICITY INDEX VALUES GREATER THAN 20) AND REPLACE WITH FILL MATERIAL WITH PLASTICITY INDEX VALUES LESS THAN OR EQUAL TO 20. IF SUBGRADE STABILIZATION IS REQUIRED, THE FOLLOWING SPECIFICATIONS MUST BE MET. THE CONTRACTOR SHALL COORDINATE WITH THE GEOTECHNICAL ENGINEER IN THE FIELD FOR SUBGRADE TREATMENT.

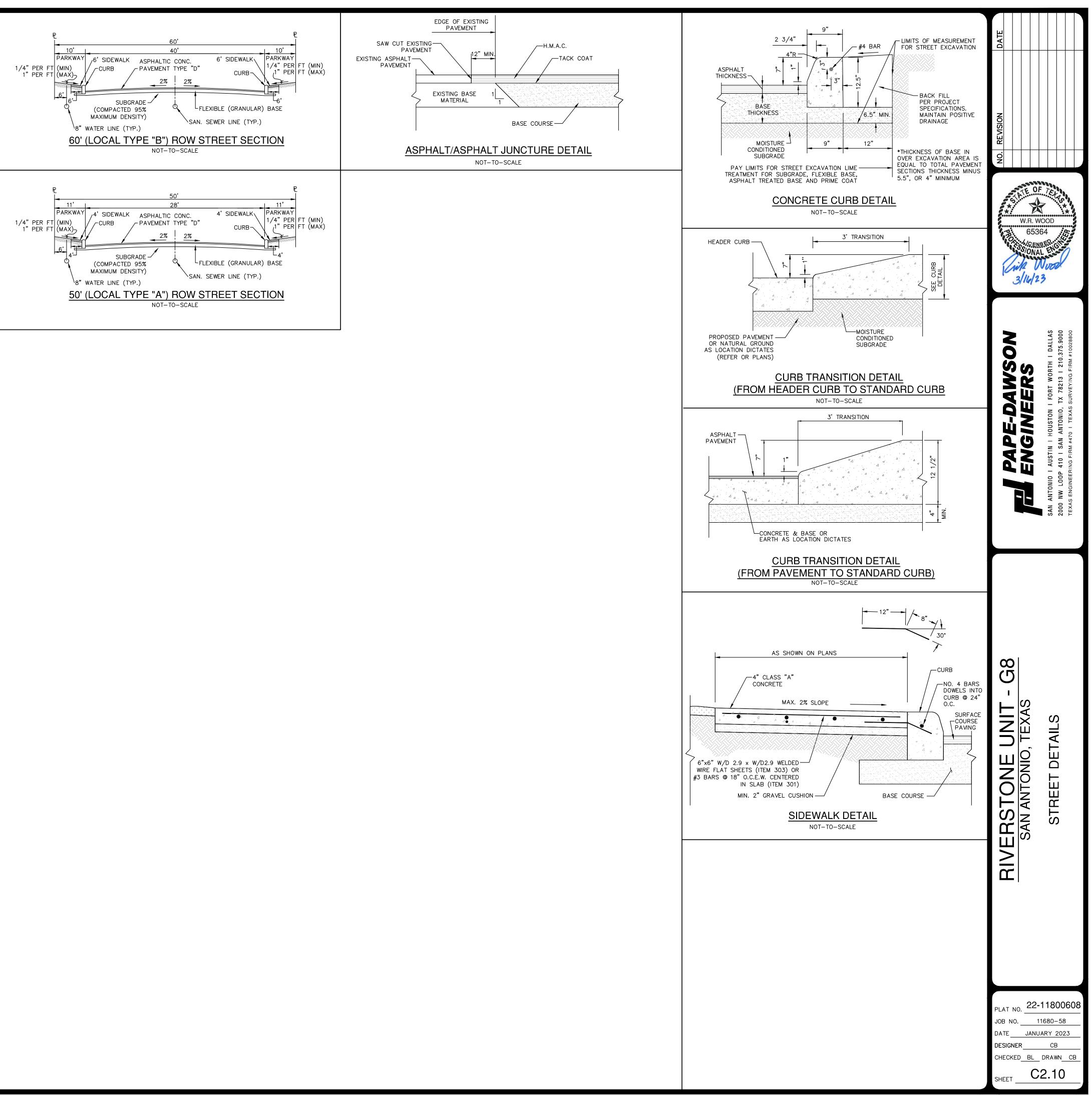
- TREAT THE SUBGRADE:
- THE SUBGRADE SHOULD BE TREATED TO A DEPTH OF 6 INCHES USING 6 1/2 PERCENT LIME CONTENT
- THE SUBGRADE SOILS SHOULD BE TESTED FOR SOIL SULFATE CONTENT PRIOR TO TREATMENT. IF THE SOIL SULFATE CONTENT IS OVER 3000 PPM, AN ALTERNATE PROCEDURE WILL BE REQUIRED.
- THE SUBGRADE MAY ALSO BE TREATED USING CEMENT.
- APPLICATION RATES SHOULD BE DETERMINED AT THE TIME OF CONSTRUCTION.
- LIME APPLICATION RATE OF 27 LBS PER SQ YARD FOR 6— INCH DEPTH OF TREATMENT MAY BE USED FOR PLANNING AND BUDGETING PURPOSES. THE LIME/CEMENT APPLICATION RATES SHOULD BE DETERMINED AT THE TIME OF CONSTRUCTION.

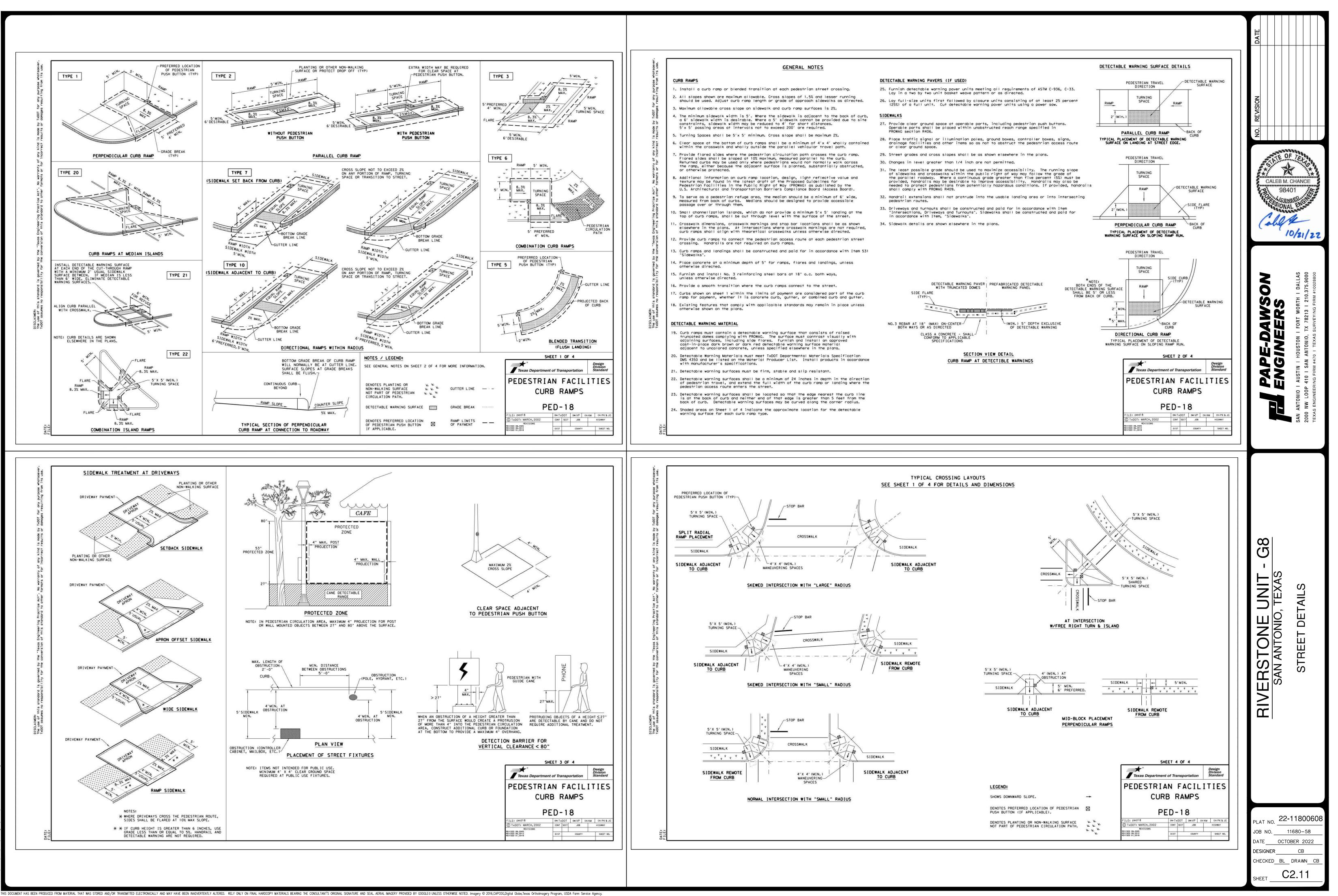
GENERAL NOTES:

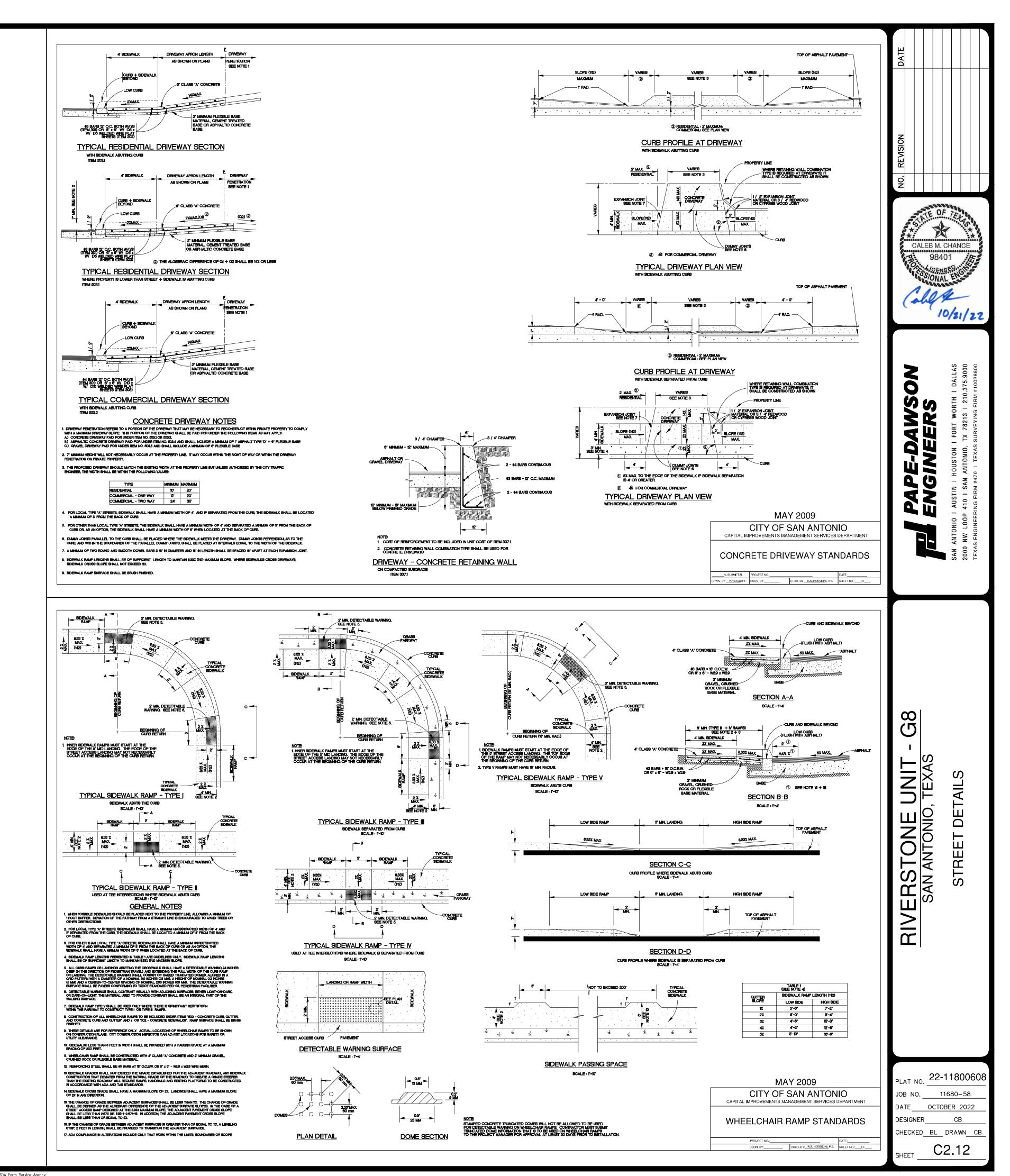
CONTRACTOR SHALL REFERENCE THE PROJECT PAVEMENT DESIGN REPORT NO. **S191159-P-R1** PREPARED BY INTEC DATED 05/20/2021

- CONTRACTOR SHALL RETAIN A GEOTECHNICAL ENGINEER TO VERIFY THE SUB GRADE CONDITION PRIOR TO PLACING ANY BASE MATERIAL. GEOTECHNICAL ENGINEER SHALL DETERMINE THE SUB GRADE CONDITION AND IF LIME STABILIZATION IS REQUIRED.
- 3. GEOTECHNICAL ENGINEER SHOULD VERIFY THE STREET SUBGRADE AT THE TIME OF CONSTRUCTION PRIOR TO PLACEMENT OF AGGREGATE BASE.
- 4. THE FLEXIBLE BASE COURSE SHOULD BE CRUSHED LIMESTONE CONFORMING TO TXDOT STANDARD SPECIFICATIONS, ITEM 247, TYPE A, GRADES 1 OR 2.
- 5. THE MOISTURE CONTENT OF THE FILL SHOULD BE MAINTAINED WITHIN THE RANGE OF OPTIMUM WATER CONTENT TO 3 PERCENTAGE POINTS ABOVE THE OPTIMUM WATER CONTENT UNTIL PERMANENTLY COVERED.
- 6. IN THE EVENT THAT THE CLAY FILL USED IS DIFFERENT THAN THE EXISTING SUBGRADE, THE RECOMMENDATIONS IN THE GEOTECHNICAL REPORT COULD BE INVALIDATED AND THE DESIGN ENGINEER MUST BE CONSULTED TO DETERMINE IF ADDITIONAL CBR TESTING AND THICKER PAVEMENT SECTIONS ARE REQUIRED.
- 7. WHERE PAVEMENT SUBGRADE IS LOCATED WITHIN 2-FEET OF THE EXISTING GROUND SURFACE (STRATUM 1 CLAYS), MOISTURE CONDITIONED SUBGRADE WILL BE REQUIRED. GEOTECHNICAL ENGINEER SHOULD VERIFY THE STREET SUBGRADE AT THE TIME OF CONSTRUCTION PRIOR TO PLACEMENT OF AGGREGATE BASE TO DETERMINE WHERE THE MOISTURE CONDITIONED SUBGRADE IS NEEDED. REFERENCE GEOTECHNICAL ENGINEERING REPORT FOR MORE INFORMATION.

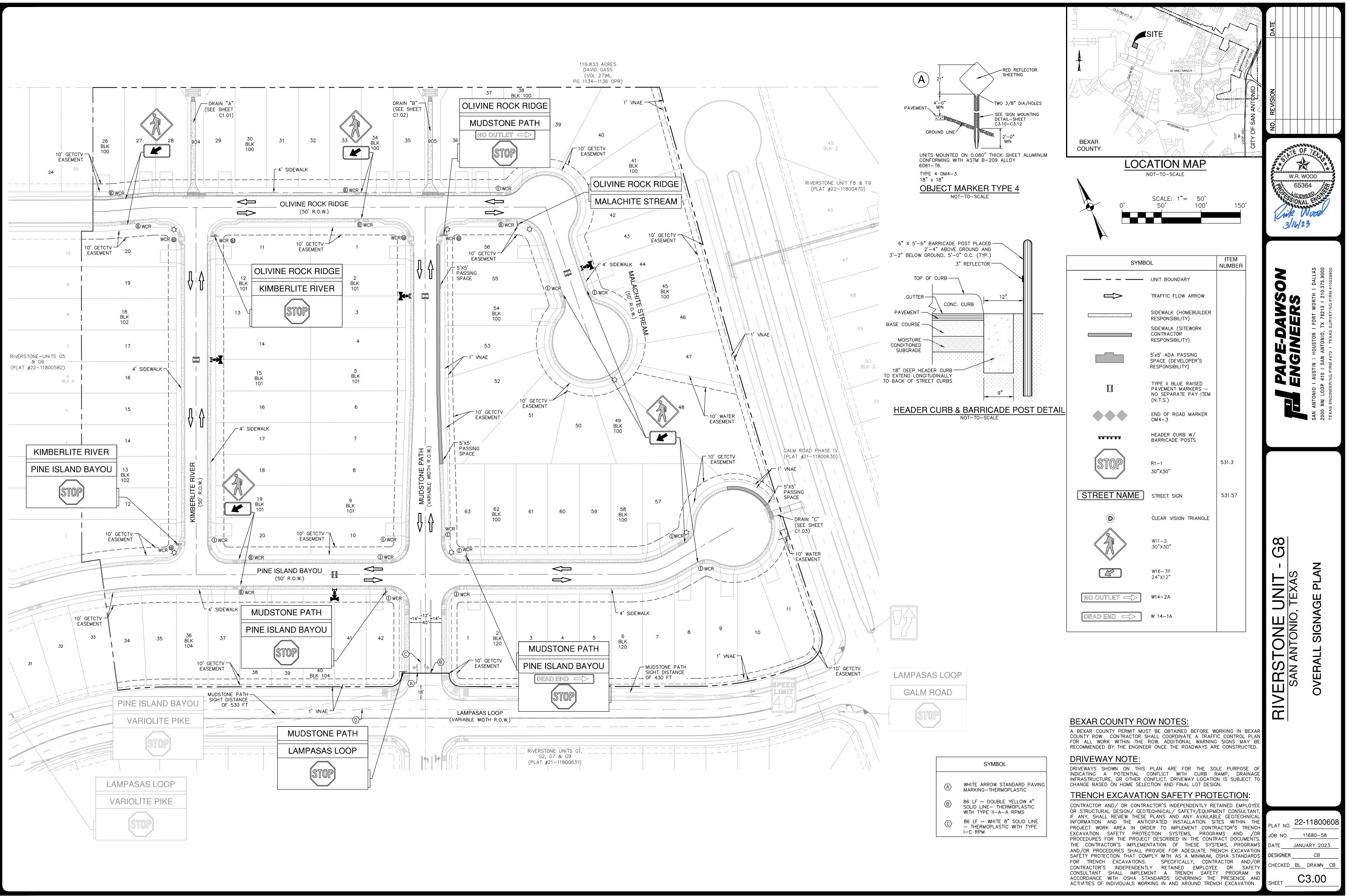
PAVEMENT DESIGN IS IN ACCORDANCE WITH THE GEOTECHNICAL ENGINEERING REPORT PREPARED FOR RIVERSTONE SUBDIVISION BY INTEC. PROJECT NUMBER: **S191159–P–R1 DATED: 05/20/2021**





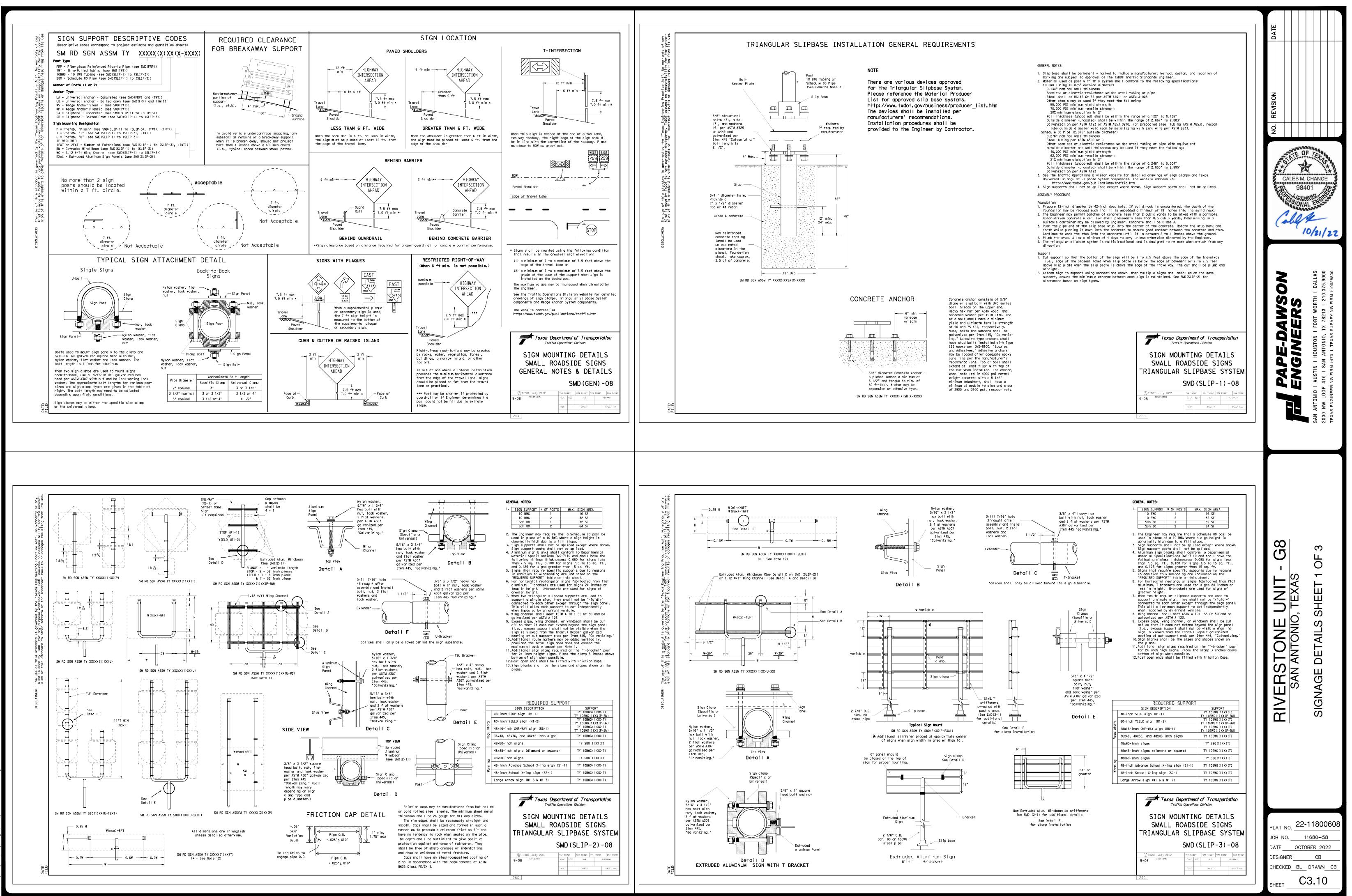


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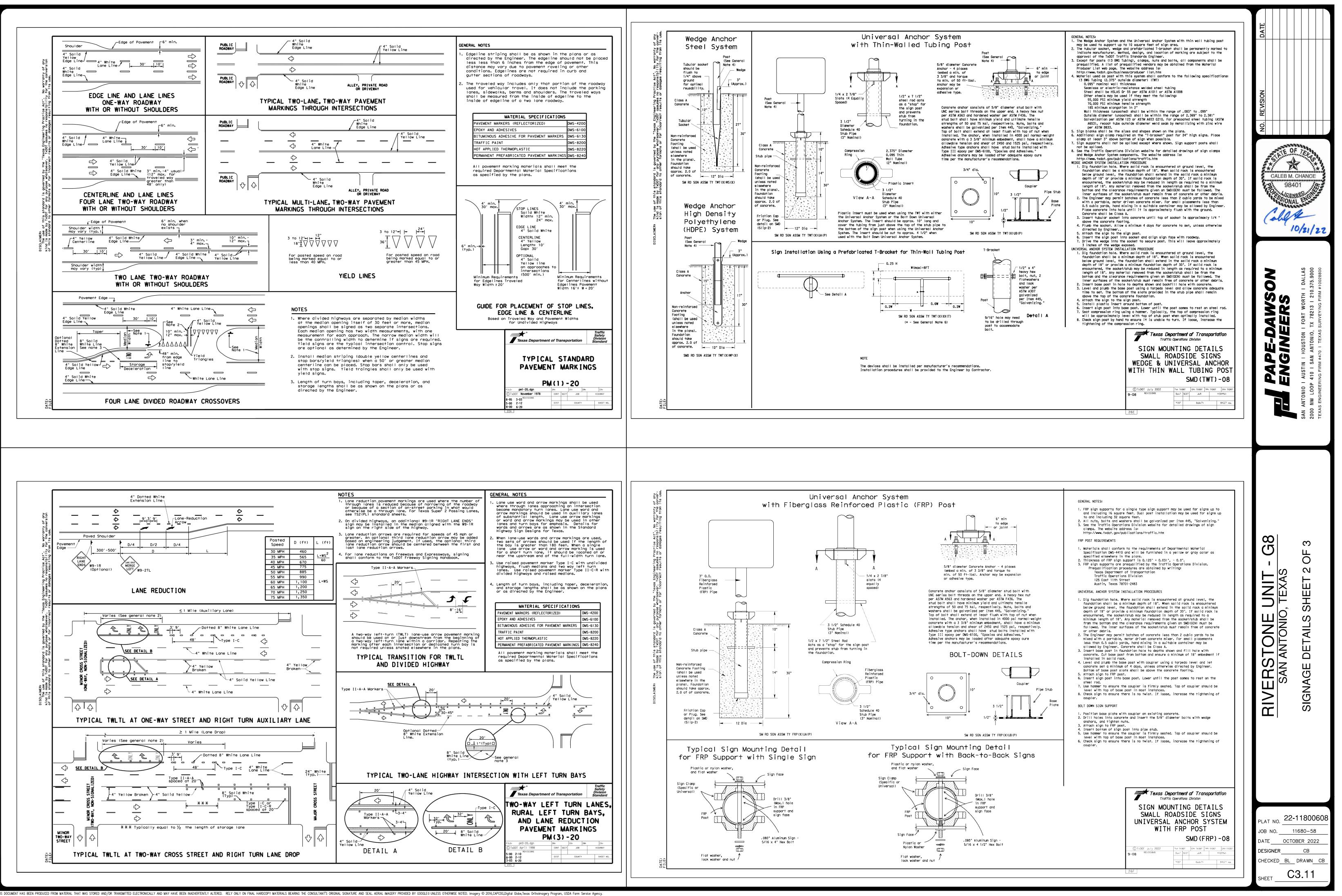


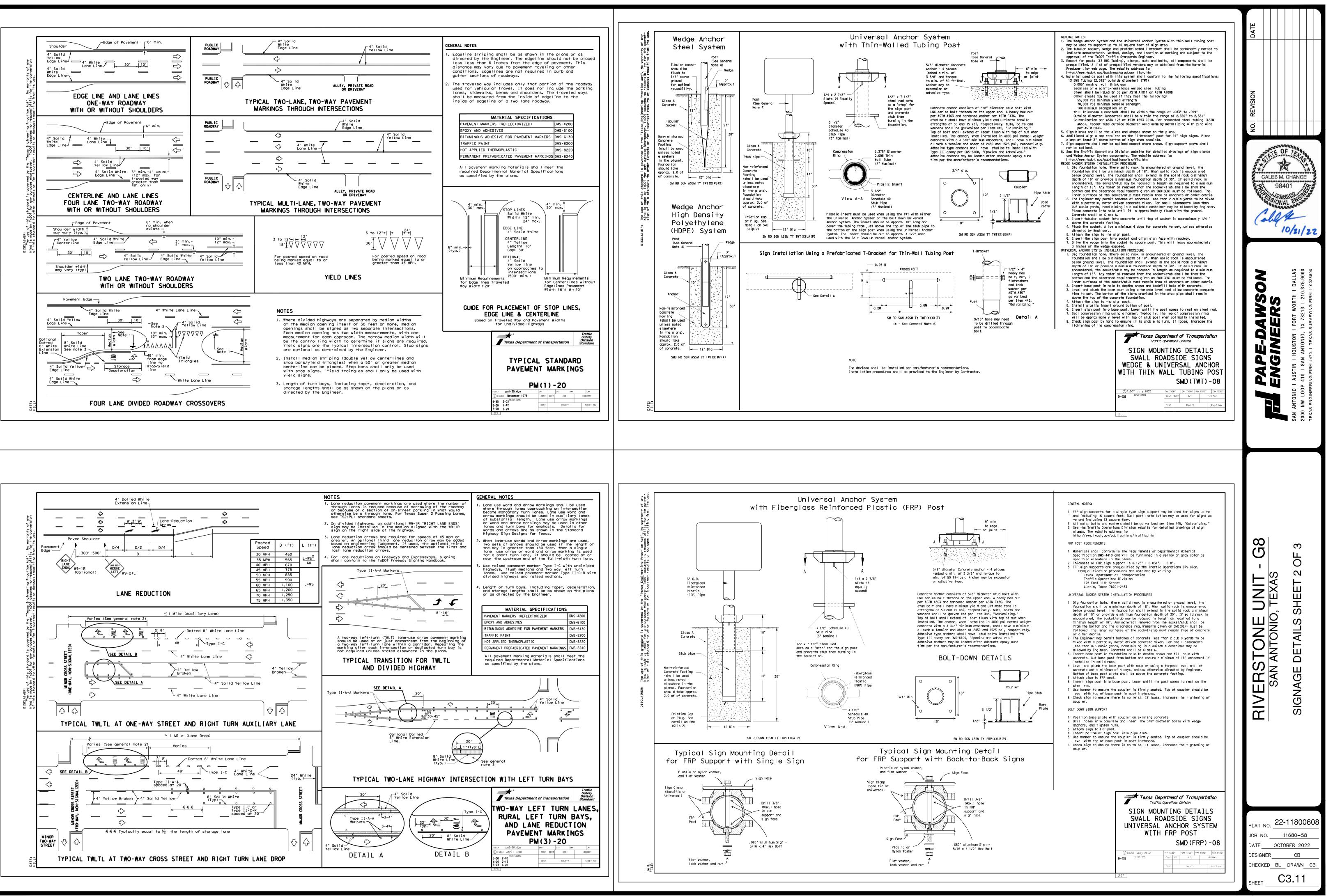
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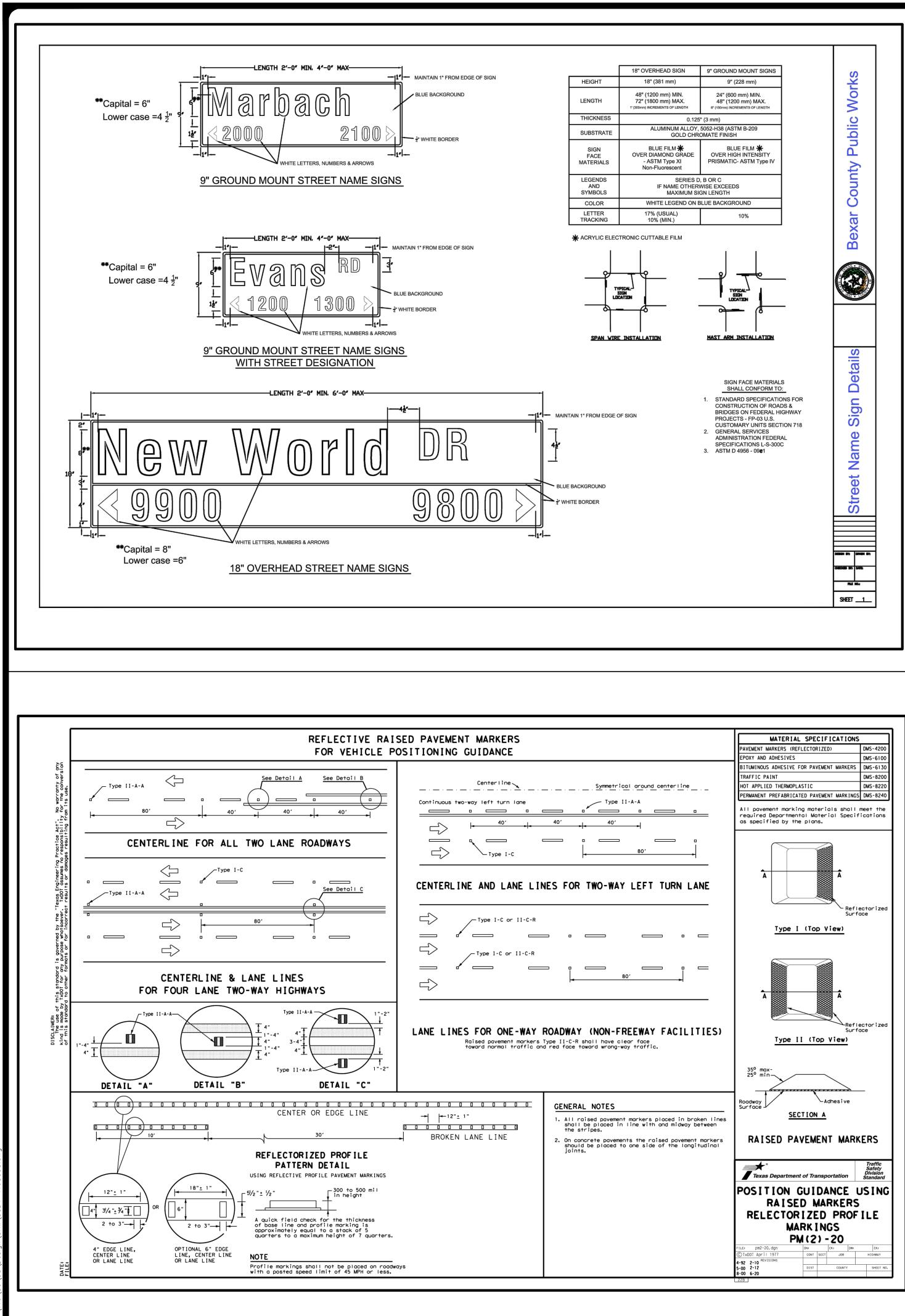
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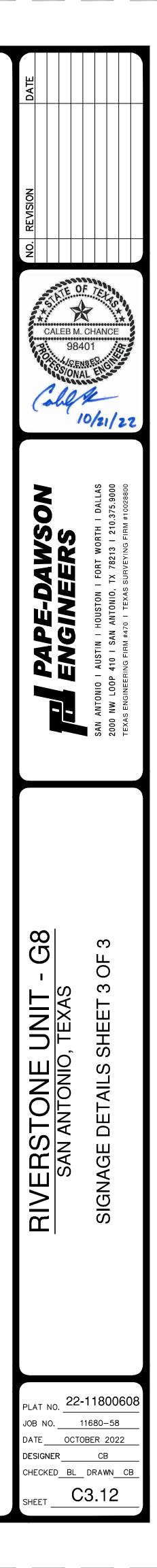


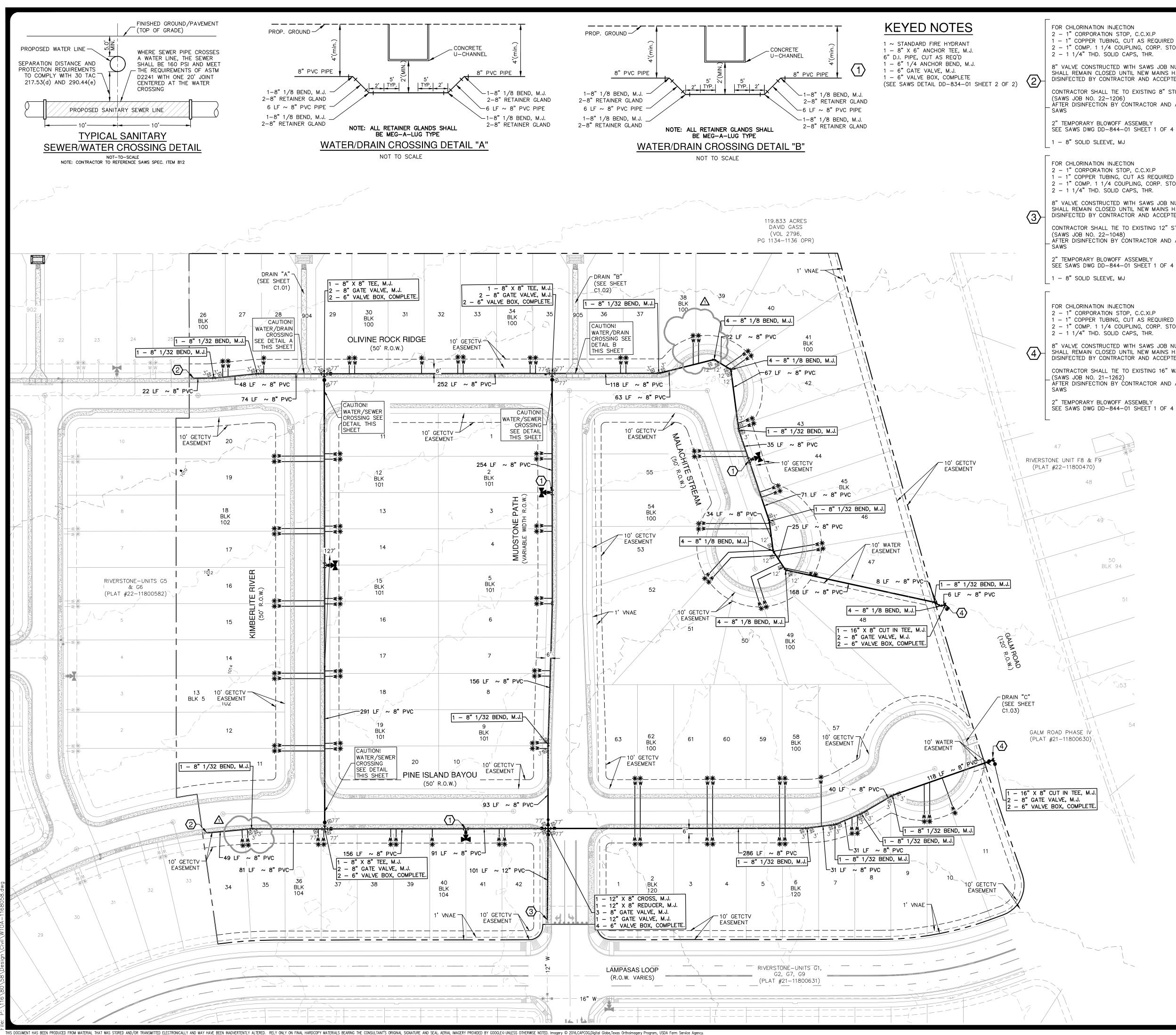




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1 – 1" COPPER TUBING, CUT AS REQUIRED 2 - 1" COMP. 1 1/4 COUPLING, CORP. STOP 8" VALVE CONSTRUCTED WITH SAWS JOB NUMBER 22-1206 SHALL REMAIN CLOSED UNTIL NEW MAINS HAVE BEEN DISINFECTED BY CONTRACTOR AND ACCEPTED BY SAWS ALAMO RANCH CONTRACTOR SHALL TIE TO EXISTING 8" STUBOUT ÀFTER DISINFECTION BY CONTRACTOR AND ACCEPTANCE BY SEE SAWS DWG DD-844-01 SHEET 1 OF 4

1 – 1" COPPER TUBING, CUT AS REQUIRED 2 - 1" COMP. 1 1/4 COUPLING, CORP. STOP

8" VALVE CONSTRUCTED WITH SAWS JOB NUMBER 22-1048 SHALL REMAIN CLOSED UNTIL NEW MAINS HAVE BEEN DISINFECTED BY CONTRACTOR AND ACCEPTED BY SAWS CONTRACTOR SHALL TIE TO EXISTING 12" STUBOUT

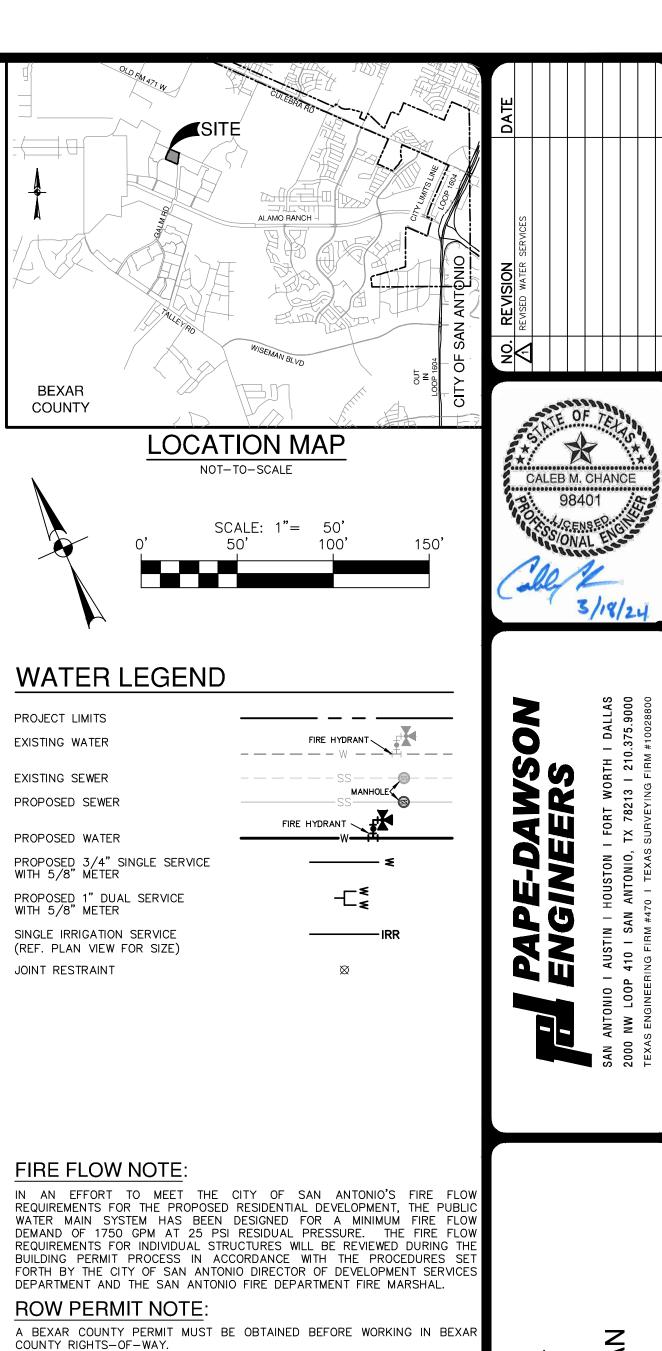
ÀFTER DISINFECTION BY CONTRACTOR AND ACCEPTANCE BY

SEE SAWS DWG DD-844-01 SHEET 1 OF 4

1 – 1" COPPER TUBING, CUT AS REQUIRED 2 - 1" COMP. 1 1/4 COUPLING, CORP. STOP

8" VALVE CONSTRUCTED WITH SAWS JOB NUMBER 21-1262 SHALL REMAIN CLOSED UNTIL NEW MAINS HAVE BEEN DISINFECTED BY CONTRACTOR AND ACCEPTED BY SAWS

CONTRACTOR SHALL TIE TO EXISTING 16" WATERLINE AFTER DISINFECTION BY CONTRACTOR AND ACCEPTANCE BY



PRESSURE REDUCING VALVE NOTE:

PRESSURE REDUCING VALVE TO BE INSTALLED ON CUSTOMER'S SIDE OF METER BY HOMEBUILDER.

PRESSURE NOTE:

CONTRACTOR TO VERIFY THAT NO PORTION OF THE TRACT IS BELOW GROUND ELEVATION OF (985) FEET WHERE THE STATIC PRESSURE WILL NORMALLY EXCEED 80 PSI. AT ALL SUCH LOCATIONS WHERE THE GROUND LEVEL IS BELOW 985 FEET, THE DEVELOPER OR BUILDER SHALL INSTALL AT EACH LOT, ON THE CUSTOMER'S SIDE OF THE METER, AN APPROVED TYPE PRESSURE REGULATOR IN CONFORMANCE WITH THE PLUMBING CODE OF THE CITY OF SAN ANTONIO. NO DUAL SERVICES ALLOWED FOR ANY LOT(S) IF *PRV IS/ARE REQUIRED FOR SUCH LOT(S), ONLY SINGLE SERVICE CONNECTIONS SHALL BE ALLOWED. *NOTE: A PRESSURE REGULATOR IS ALSO KNOWN AS A PRESSURE REDUCING VALVE (PRV).

JOINT RESTRAINT NOTE:

CONTRACTOR SHALL INSTALL RETAINER GLANDS AT ALL FITTINGS AND PROVIDE JOINT RESTRAINING HARNESSES OR FIELD LOCK GASKETS AT ALL JOINTS WITHIN THE LENGTH SHOWN. CONTRACTOR SHALL INSURE THAT ALI TEES, BENDS, VALVES, ETC. HAVE A MINIMUM OF 5 FT OF PIPE WITH NO JOINTS ON EACH SIDE OF THE FITTING. JOINT RESTRAINTS AND RETAINER GLANDS SHALL BE CALCULATED BY SAWS APPROVED PROGRAMS. THERE WILL BE NO SEPARATE PAY ITEM FOR RETAINER GLANDS AND OTHER JOINT RESTRAINING HARNESSES AND GASKETS, BUT SHALL BE SUBSIDIARY TO THE UNIT COST PER LINEAL FOOT OF PIPE INSTALLED. TRENCH EXCAVATION SAFETY PROTECTION:

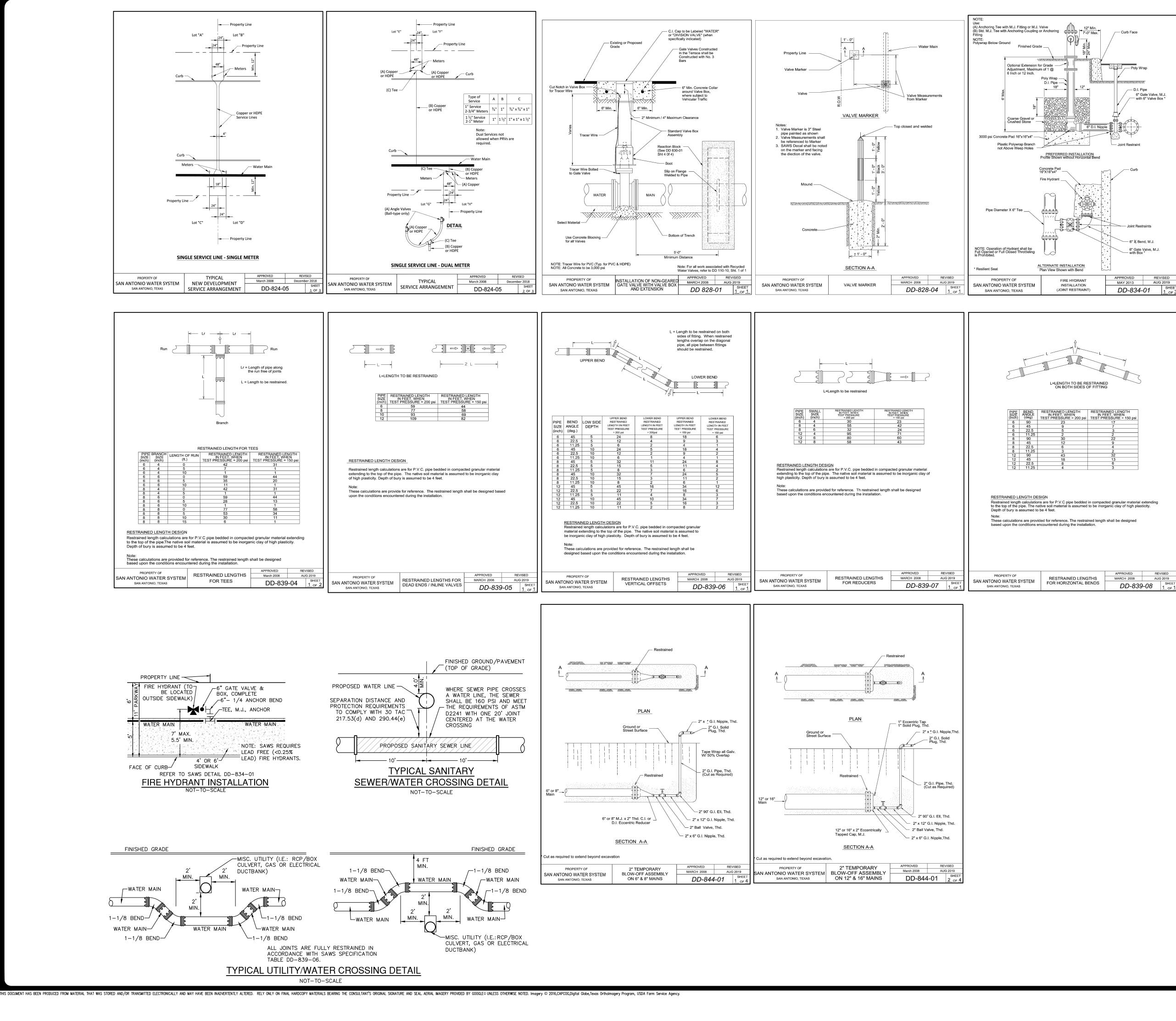
CONTRACTOR AND/ OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYE

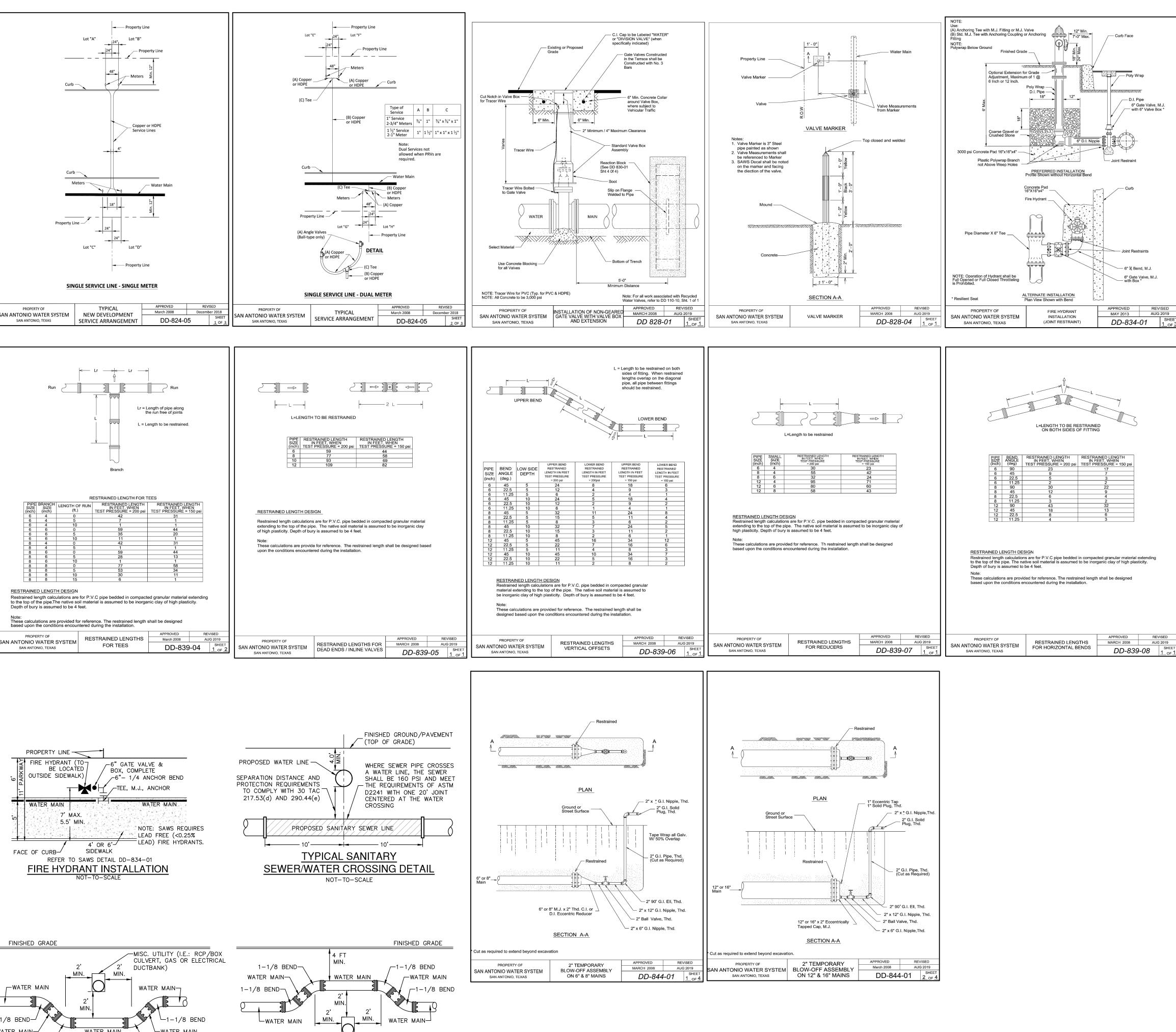
OR STRUCTURAL DESIGN / GEOTECHNICAL / SAFETY / EQUIPMENT CONSULTANT IF ANY, SHALL REVIEW THESE PLANS AND ANY AVAILABLE GEOTECHNICAL INFORMATION AND THE ANTICIPATED INSTALLATION SITES WITHIN TH PROJECT WORK AREA IN ORDER TO IMPLEMENT CONTRACTOR'S TRENCH EXCAVATION SAFETY PROTECTION SYSTEMS, PROGRAMS AND /(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 SAFÉTY PROTECTION THAT COMPLY WITH AS A MINIMUM, OSHA STANDARDS FOR TRENCH EXCAVATIONS. SPECIFICALLY, CONTRACTOR AND/O CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR SAFETY CONSULTANT SHALL IMPLEMENT A TRENCH SAFETY PROGRAM IN ACCORDANCE WITH OSHA STANDARDS GOVERNING THE PRESENCE ANI ACTIVITIES OF INDIVIDUALS WORKING IN AND AROUND TRENCH EXCAVATION. WATER (SAWS PRESSURE ZONE 8)

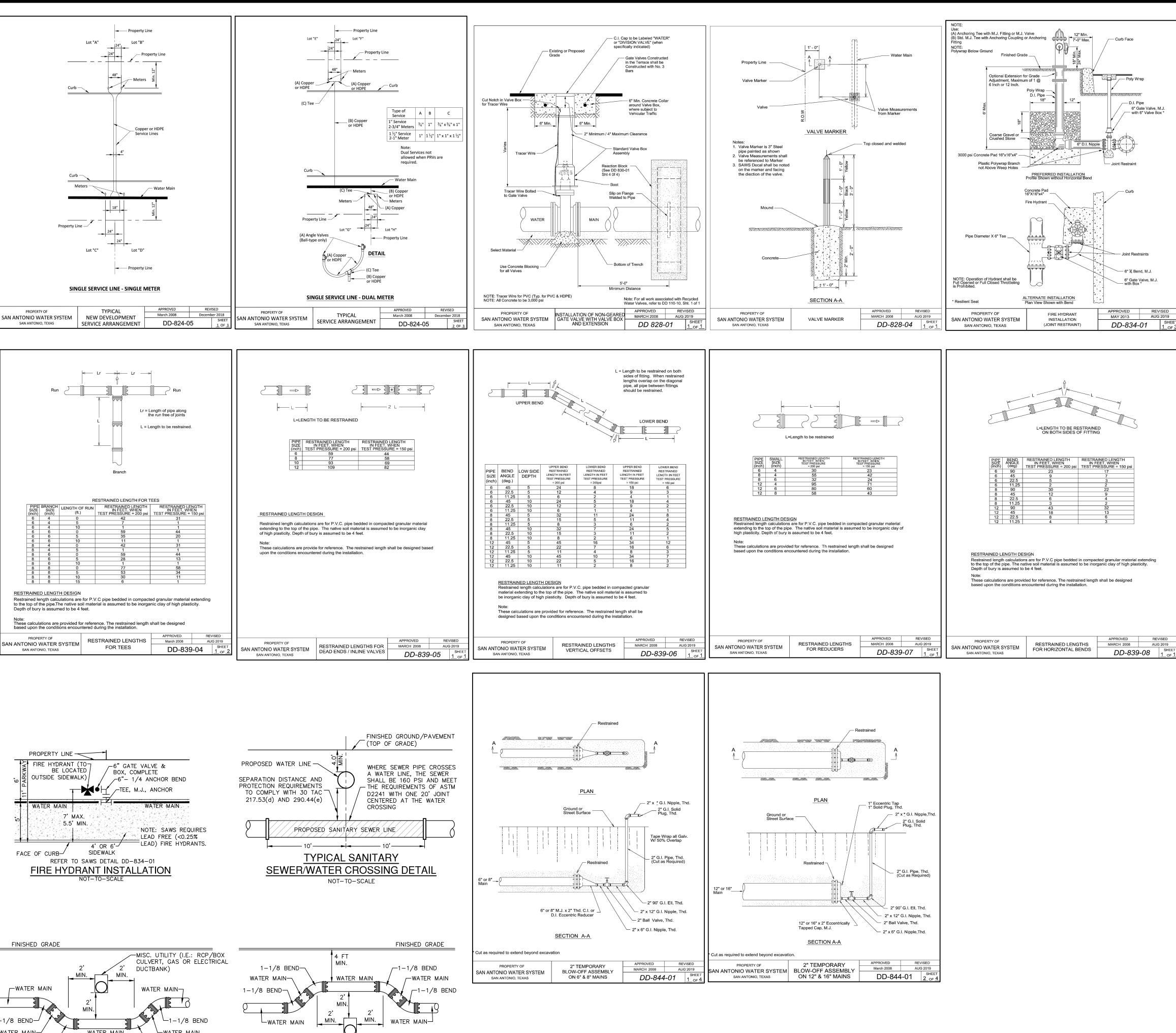
DEVELOPER'S NAME: CONTINENT	AL HOMES OF	TEXAS, L.P.	
ADDRESS: 5419 N LOOP 1604	ŀΕ		
CITY: SAN ANTONIO	STATE: TX	ZIP:	78247
PHONE# <u>PHONE</u> #	FAX#_		
SAWS BLOCK MAP# <u>070602</u> TO TOTAL LINEAR FOOTAGE OF PIPE			REAGE <u>14.34</u>
TOTAL LINEAR FOOTAGE OF PIPE	12 - 101.50 :: <u>8' - 2,905 L</u> F	PLAT NO2	2-11800608
NUMBER OF LOTS 88	_ SAWS JOB N	10. <u>22–1216</u>	

W C W E T S			
	RIVERSTONE UNIT - G8	SAN ANTONIO, TEXAS	OVERALL WATER DISTRIBUTION PLAN

PLAT NO.	22-11800608
JOB NO.	11680-58
DATE	MARCH 2023
	СВ
CHECKED_	DRAWN_CB
SHEET	C4.00







TRAINED LENGTH	RESTRAINED LENGTH
IN FEET, WHEN FPRESSURE = 200 psi	IN FEET, WHEN TEST PRESSURE = 150 psi
23	17
9	7
5	3
2	2
30	22
12	9
6	4
3	2
43	32
18	13
8	6
4	3

	APPROVED	RE\	/ISED
RESTRAINED LENGTHS	MARCH 2008	AUG	G 2019
FOR HORIZONTAL BENDS	DD-839	-08	SHEET



DEVELOPER'S NAME: <u>CONTINENTAL HOMES OF TEXAS, L.P.</u> ADDRESS: <u>5419 N LOOP 1604 E</u> CITY: <u>SAN ANTONIO</u> STATE: <u>TX</u> ZIP: <u>78247</u> PHONE# <u>PHONE #</u> SAWS BLOCK MAP# <u>070602</u> TOTAL EDU'S <u>88</u> TOTAL ACREAGE <u>14</u> . 12" - 101.50 TOTAL LINEAR FOOTAGE OF PIPE: <u>8' - 2.905 LF</u> PLAT NO. <u>22-118006</u> NUMBER OF LOTS <u>88</u> SAWS JOB NO. <u>22-1216</u>		
ADDRESS: <u>5419 N LOOP 1604 E</u> CITY: <u>SAN ANTONIO</u> STATE: <u>TX</u> ZIP: <u>78247</u> PHONE# <u>PHONE #</u> FAX# SAWS BLOCK MAP# <u>070602</u> TOTAL EDU'S <u>88</u> TOTAL ACREAGE <u>14</u> . 12" - 101.50 TOTAL LINEAR FOOTAGE OF PIPE: <u>8' - 2.905 LF</u> PLAT NO. <u>22-118006</u>		DEVELOPER'S NAME: CONTINENTAL HOMES OF TEXAS, L.P.
CITY: <u>SAN ANTONIO</u> STATE: <u>TX</u> ZIP: <u>78247</u> PHONE# <u>PHONE #</u> FAX# SAWS BLOCK MAP# <u>070602</u> TOTAL EDU'S <u>88</u> TOTAL ACREAGE <u>14</u> 12" - 101.50 TOTAL LINEAR FOOTAGE OF PIPE: <u>8" - 2.905 LF</u> PLAT NO. <u>22-118006</u>		
SAWS BLOCK MAP# 070602 TOTAL EDU'S 88 TOTAL ACREAGE 14. 12" - 101.50 TOTAL LINEAR FOOTAGE OF PIPE:8' - 2.905 LF PLAT NO. 22-118006		
		PHONE# FAX#
		SAWS BLOCK MAP# 070602 TOTAL EDU'S 88 TOTAL ACREAGE 14.3
NUMBER OF LOTS 88 SAWS JOB NO. 22-1216		TOTAL LINEAR FOOTAGE OF PIPE: $\frac{12}{8}$ - 2.905 LF PLAT NO. 22-1180060
	I	NUMBER OF LOTS 88 SAWS JOB NO. 22-1216

PLAT N JOB NO DATE	RIVERSTONE UNIT - G8	I PAPE-DAWSON	The second secon	NO. REVISION	DATE
)1 JANU	SAN ANTONIO, TEXAS	ENGINEERS	984 SSION		
1680-5	WATER DISTRIBUTION PLAN DETAILS	SAN ANTONIO I AUSTIN I HOUSTON I FORT WORTH I DALLAS	F TET		
58		TEXAS ENGINEERING FIRM #470 I TEXAS SURVEYING FIRM #10028800			

DESIGNER

SHEET

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SAWS CONSTRUCTION NOTES (LAST REVISED JANUARY 2022) SAWS GENERAL SECTION 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 ACCORDINGLY. 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". D.CURRENT CITY OF SAN ANTONIO "STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION".
- E. CURRENT CITY OF SAN ANTONIO "UTILITY EXCAVATION CRITERIA MANUAL" (UECM).
- THE CONTRACTOR SHALL NOT PROCEED WITH ANY PIPE INSTALLATION WORK UNTIL THEY OBTAIN A COPY OF THE APPROVED COUNTER PERMIT OR GENERAL CONSTRUCTION PERMIT (GCP) FROM THE CONSULTANT AND HAS BEEN NOTIFIED BY SAWS CONSTRUCTION INSPECTION DIVISION TO PROCEED WITH THE WORK AND HAS ARRANGED A MEETING WITH THE INSPECTOR AND CONSULTANT FOR THE WORK REQUIREMENTS. WORK COMPLETED BY THE CONTRACTOR WITHOUT AN APPROVED COUNTER PERMIT AND/OR A GCP WILL BE SUBJECT TO REMOVAL AND REPLACEMENT AT THE EXPENSE OF THE CONTRACTORS AND/OR THE DEVELOPER.
- THE CONTRACTOR SHALL OBTAIN THE SAWS STANDARD DETAILS FROM THE SAWS WEBSITE, HTTP://WWW.SAWS.ORG/BUSINESS_CENTER/SPECS. UNLESS OTHERWISE NOTED WITHIN THE DESIGN PLANS.
- THE CONTRACTOR IS TO MAKE ARRANGEMENTS WITH THE SAWS CONSTRUCTION INSPECTION DIVISION AT (210) 233-2973, ON NOTIFICATION PROCEDURES THAT WILL BE USED TO NOTIFY AFFECTED HOME RESIDENTS AND/OR PROPERTY OWNERS 48 HOURS PRIOR TO BEGINNING ANY WORK.
- LOCATION AND DEPTH 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.
- 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:
- SAWS UTILITY LOCATES: HTTP: //WWW.SAWS.ORG/SERVICE/LOCATES
- COSA DRAINAGE (210) 207-0724 OR (210) 207-6026 COSA TRAFFIC SIGNAL OPERATIONS (210) 206-8480
- COSA TRAFFIC SIGNAL DAMAGES (210) 207-3951 TEXAS STATE WIDE ONE CALL LOCATOR 1-800-545-6005 OR 811
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR RESTORING EXISTING FENCES, CURBS, STREETS, DRIVEWAYS, SIDEWALKS, LANDSCAPING AND STRUCTURES TO ITS ORIGINAL OR BETTER CONDITION IF DAMAGES ARE MADE AS A RESULT OF THE PROJECT'S CONSTRUCTION.
- . ALL WORK IN TEXAS DEPARTMENT OF TRANSPORTATION (TXDOT) AND/OR BEXAR COUNTY RIGHT-OF-WAY SHALL BE DONE IN ACCORDANCE WITH RESPECTIVE CONSTRUCTION SPECIFICATIONS AND PERMIT REQUIREMENTS.
- . THE CONTRACTOR SHALL COMPLY WITH CITY OF SAN ANTONIO OR OTHER GOVERNING MUNICIPALITY'S TREE ORDINANCES WHEN EXCAVATING NEAR TREES. 10. THE CONTRACTOR SHALL NOT PLACE ANY WASTE MATERIALS IN THE 100-YEAR
- FLOOD PLAIN WITHOUT FIRST OBTAINING AN APPROVED FLOOD PLAIN PERMIT. HOLIDAY WORK: CONTRACTORS WILL NOT BE ALLOWED TO PERFORM SAWS WORK ON
- SAWS RECOGNIZED HOLIDAYS. REQUEST SHOULD BE SENT CONSTWORKREQ@SAWS.ORG. WEEKEND WORK: CONTRACTORS ARE REQUIRED TO NOTIFY THE SAWS INSPECTION CONSTRUCTION DEPARTMENT 48 HOURS IN ADVANCE TO REQUEST WEEKEND WORK
- . ANY AND ALL SAWS UTILITY WORK INSTALLED WITHOUT HOLIDAY/WEEKEND APPROVAL WILL BE SUBJECT TO BE UNCOVERED FOR PROPER INSPECTION.

REQUEST SHOULD BE SENT TO CONSTWORKREQ@SAWS.ORG.

- 12. COMPACTION NOTE (ITEM 804): THE CONTRACTOR SHALL BE RESPONSIBLE FOR MEETING THE COMPACTION REQUIREMENTS ON ALL TRENCH BACKFILL AND FOR PAYING FOR THE TESTS PERFORMED BY A THIRD PARTY, COMPACTION TESTS WILL BE DONE AT ONE LOCATION POINT RANDOMLY SELECTED, OR AS INDICATED BY THE SAWS INSPECTOR AND/OR THE TEST ADMINISTRATOR, PER EACH 12-INCH LOOSE LIFT PER 400 LINEAR FEET AT A MINIMUM. THIS PROJECT WILL NOT BE ACCEPTED AND FINALIZED BY SAWS WITHOUT THIS REQUIREMENT BEING MET AND VERIFIED BY PROVIDING ALL NECESSARY DOCUMENTED TEST RESULTS.
- 13. A COPY OF ALL TESTING REPORTS SHALL BE FORWARDED TO SAWS CONSTRUCTION INSPECTION DIVISION.

SAWS WATER NOTES

- CENTER (210) 233–2014
- ASBESTOS CEMENT (AC) PIPE, ALSO KNOWN AS TRANSITE PIPE WHICH IS KNOWN TO CONTAIN ASBESTOS- CONTAINING MATERIAL (ACM), MAY BE 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. SUCH WORK IS TO BE MADE UNDER SPECIAL SPECIFICATION ITEM NO. 3000, "SPECIAL SPECIFICATION FOR HANDLING ASBESTOS CEMENT PIPE".
- 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)
- SUITABLE ANCHORAGE/THRUST BLOCKING OR JOINT RESTRAINT SHALL BE PROVIDED AT ALL OF THE FOLLOWING MAIN LOCATIONS: DEAD ENDS, PLUGS, CAPS, TEES, CROSSES, VALVES, AND BENDS, IN ACCORDANCE WITH THE STANDARD DRAWINGS DD-839 SERIES AND ITEM NO. 839, IN THE SAWS STANDARD SPECIFICATIONS FOR CONSTRUCTION.
- 5. ALL VALVES SHALL READ "OPEN RIGHT".
- 6. PRVS REQUIRED: CONTRACTOR TO VERIFY THAT NO PORTION OF THE TRACT IS BELOW GROUND ELEVATION OF 985_FEET WHERE THE STATIC PRESSURE WILL NORMALLY EXCEED 80 PSI. AT ALL SUCH LOCATIONS WHERE THE GROUND LEVEL IS BELOW 985_FEET, THE DEVELOPER OR BUILDER SHALL INSTALL AT EACH LOT, ON THE CUSTOMER'S SIDE OF THE METER, AN APPROVED TYPE PRESSURE REGULATOR IN CONFORMANCE WITH THE PLUMBING CODE OF THE CITY OF SAN ANTONIO. NO DUAL SERVICES ALLOWED FOR ANY LOT(S) IF *PRV IS/ARE REQUIRED FOR SUCH LOT(S), ONLY SINGLE SERVICE CONNECTIONS SHALL BE ALLOWED. *NOTE: A PRESSURE REGULATOR IS ALSO KNOWN AS A PRESSURE REDUCING VALVE (PRV).
- PIPE DISINFECTION WITH DRY HTH FOR PROJECTS LESS THAN 800 LINEAR FEET. (ITEM NO. 847.3): MAINS SHALL BE DISINFECTED WITH DRY HTH WHERE SHOWN IN THE CONTRACT DOCUMENTS OR AS DIRECTED BY THE INSPECTOR, AND SHALL NOT EXCEED A TOTAL LENGTH OF 800 FEET. THIS METHOD OF DISINFECTION WILL ALSO BE FOLLOWED FOR MAIN REPAIRS. TH CONTRACTOR SHALL UTILIZE ALL APPROPRIATE SAFETY MEASURE TO PROTECT HIS PERSONNEL DURING DISINFECTION OPERATIONS.
- 8. BACKFLOW PREVENTION DEVICES:
- ALL IRRIGATION SERVICES WITHIN RESIDENTIAL AREAS ARE REQUIRED TO HAVE BACKFLOW PREVENTION DEVICES. ALL COMMERCIAL BACKFLOW PREVENTION DEVICES MUST BE APPROVED BY SAWS PRIOR TO INSTALLATION.
- FINAL CONNECTION TO THE EXISTING WATER MAIN SHALL NOT BE MADE | 14. SAWS REQUIRES LEAD FREE (< 0.25%) FIRE HYDRANTS. UNTIL THE WATER MAIN HAS BEEN PRESSURE TESTED, CHLORINATED, AND SAWS HAS RELEASED THE MAIN FOR TIE-IN AND USE.
- 10. DIVISION VALVES: DIVISION VALVES SHOWN ON PLANS OR NOT SHOWN ON PLANS BUT FOUND IN THE FIELD SHALL ONLY BE OPERATED BY SAWS DISTRIBUTION AND COLLECTION STAFF AND ONLY WITH PRIOR WRITTEN APPROVAL OF THE SAWS DIRECTOR OF PRODUCTION AND OPERATIONS AND PROPER COORDINATION WITH ALL SAWS DEPARTMENTS. CONTRACTOR SHALL PROVIDE WRITTEN NOTIFICATION TO THE INSPECTOR A MINIMUM OF TWO WEEKS IN ADVANCE TO START THE COORDINATION PROCESS AND WILL BE INFORMED BY THE INSPECTOR WHEN THE DIVISION VALVE WILL BE OPERATED BY THE SAWS DISTRIBUTION AND COLLECTION STAFF. THE DIVISION VALVE CAN ONLY BE OPERATED BY SAWS DISTRIBUTION AND COLLECTION STAFF MEMBER NOT THE INSPECTOR OR THE CONTRACTOR. OPERATION OF / DIVISION VALVE WITHOUT THE EXPRESS PRIOR WRITTEN APPROVAL OF THE SAWS DISTRIBUTION AND COLLECTION STAFF WILL CONSTITUTE A MATERIAL BREACH OF ANY WRITTEN SAWS CONTRACT OR PERMIT IN ADDITION TO SUBJECTING THE CONTRACTOR TO LIABILITY FOR ANY AND ALL FINES, FEES OR OTHER DAMAGES, DIRECT OR CONSEQUENTIAL, THAT MAY ARISE FROM OR BE CAUSED BY THE OPERATION OF THE VALVE WITHOUT PRIOR WRITTEN PERMISSION. PLEASE BE INFORMED THAT THE APPROVAL OF THE OPERATION OR OPENING OR CLOSING OF A DIVISION VALVE CAN TAKE SEVERAL WEEKS FOR APPROVAL. DIVISION VALVES WILL ALSO HAVE A VALVE LID LABELED DIVISION VALVE AND A LOCKING MECHANISM INSTALLED WITH A KEY. THE LOCK AND KEY MECHANISM WILL BE PAID FOR BY THE CONTRACTOR BUT
- WILL BE INSTALLED BY SAWS DISTRIBUTION AND COLLECTION STAFF.

PRIOR TO TIE-INS, ANY SHUTDOWNS OF EXISTING MAINS OF ANY SIZE MUST | 1. MACHINE CHLORINATION BY THE S.A.W.S. BE COORDINATED WITH THE SAWS CONSTRUCTION INSPECTION DIVISION AT LEAST ONE WEEK 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 3.

FOR WATER MAINS 12" OR HIGHER: SAWS EMERGENCY OPERATIONS

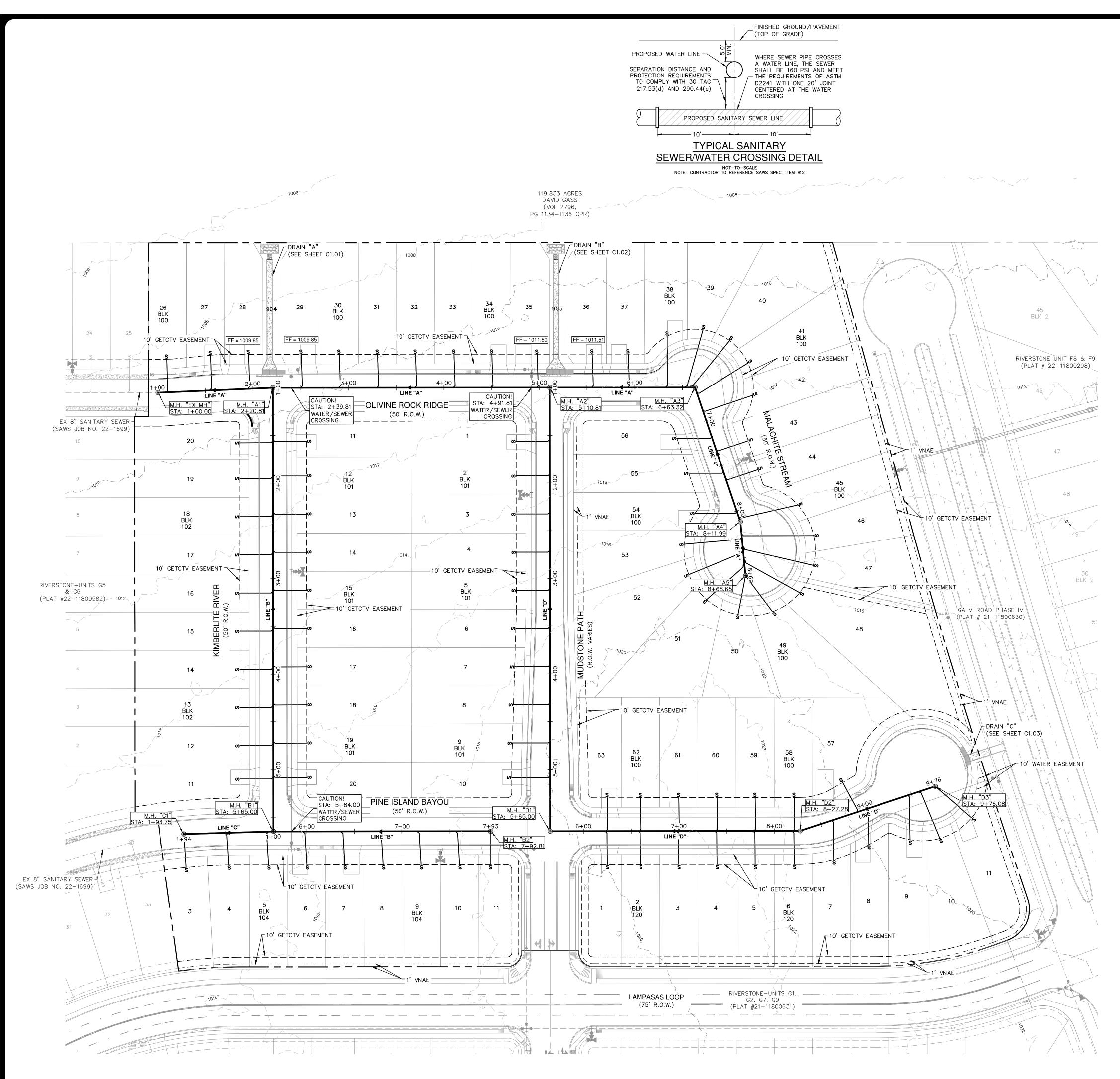
PROJECT WATER NOTES

- ALL 8", 12" AND 16" PIPE SHALL BE P.V.C. C-900 CLASS 235 DR 18.
- 5. ALL MAINS SHALL BE HYDROSTATICALLY TESTED BY THE CONTRACTOR, A PROVIDED FOR IN THE SPECIAL CONDITIONS.
- . THE WATER LINES WILL BE SET FROM THE STREET HUBS BEFORE TH CONTRACT BEGINS. STREET CUT SHEETS WILL BE SUPPLIED TO T CONTRACTOR. THERE SHOULD BE NO ADDITIONAL STAKES REQUIRED, AND SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO INSPECT THE SITE ANI VERIFY THAT ALL STAKES REQUIRED FOR HIS WORK ARE IN PLACE AT T TIME THE CONSTRUCTION BEGINS. IF ANY STAKES ARE MISSING TI ENGINEER SHOULD BE NOTIFIED IMMEDIATELY. AFTER CONSTRUCTION BEGINS ALL CONSTRUCTION STAKES. MARKS. ETC., SHALL BE CAREFULLY PRESERVE BY THE CONTRACTOR, AND IN CASE OF DESTRUCTION OR REMOVAL BY TH CONTRACTOR, HIS EMPLOYEE OR ANY OTHER MEANS, SUCH STAKES, MARKS ETC., SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.
- THE CONTRACTOR SHALL FURNISH THE ENGINEER WITH ALL THE FINAL MEASUREMENTS, TAPS AND LENGTH OF SERVICE CONNECTIONS.
- THE LOT CORNERS WILL BE SET BY THE ENGINEER FOR INSTALLATION OF AL WATER SERVICES. THESE LOT CORNERS SHALL BE CAREFULLY PRESERVED B THE CONTRACTOR SO THE METER BOXES CAN BE SET IN PHASE II. ANY LO CORNER DESTROYED OR REMOVED BY THE CONTRACTOR, HIS EMPLOYEES, (BY ANY OTHER MEANS SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE
- STREETS WILL HAVE BEEN EXCAVATED DOWN TO SUBGRADE AND TH PARKWAY WILL BE CUT DOWN TO TOP OF CURB BY THE STREET CONTRACTOR PRIOR TO CONSTRUCTION OF THE WATER MAINS. IT WILL BE THE UTILIT CONTRACTOR'S RESPONSIBILITY TO PROVIDE A PAD FOR HIS EQUIPMENT.
- . WATER METER BOXES IF APPLICABLE SHALL BE INSTALLED NINE FEET FROM FACE OF CURB TO CENTER OF THE METER BOX.
- 9. ALL GARBAGE OR SPOIL MATERIAL FROM THIS WORK SHALL BE REMOVED FROM THE SITE BY THE CONTRACTOR, AT HIS EXPENSE.
- 0. FINAL CONNECTION TO THE EXISTING WATER MAIN SHALL NOT BE MADE UNTI WATER MAIN HAS BEEN PRESSURE TESTED, CHLORINATED AND THE S.A.W.S RELEASES THE MAIN FOR TIE-IN AND USE.
- . UNIT PRICE BID FOR "STANDARD FIRE HYDRANT ASSEMBLY" SHALL INCLUDI FIRE HYDRANT, 6-INCH GATE VALVE AND 6-INCH VALVE BOX COMPLETE ANCHOR BEND, AND ALL 6-INCH DI PIPE REQUIRED (DI PIPE REQUIRED SHAL INCLUDE ALL PIPE FROM THE TEE ON THE MAIN LINE TO THE FIRE HYDRANT)
- 2. WHEN SEWER LINES ARE INSTALLED IN THE VICINITY OF WATER MAINS, SUC INSTALLATION SHALL BE IN STRICT ACCORDANCE WITH THE TEXAS NATURA RESOURCE CONSERVATION COMMISSION "RULES AND REGULATIONS FOR PUBLIC WATER SYSTEMS" (1988 OR ANY REVISIONS THERETO).
- 13. A CLEAR SPACE SHALL BE PROVIDED AROUND ALL FIRE HYDRANTS. THIS AREA SHOULD HAVE A MINIMUM DIAMETER OF 3.0' AND BE CLEAN OF VERTICAL OBSTRUCTIONS, VALVES, AND METER BOXES.
- 15. UNLESS OTHERWISE NOTED ALL SERVICES SHALL BE 3/4" WITH 5/8" METER.

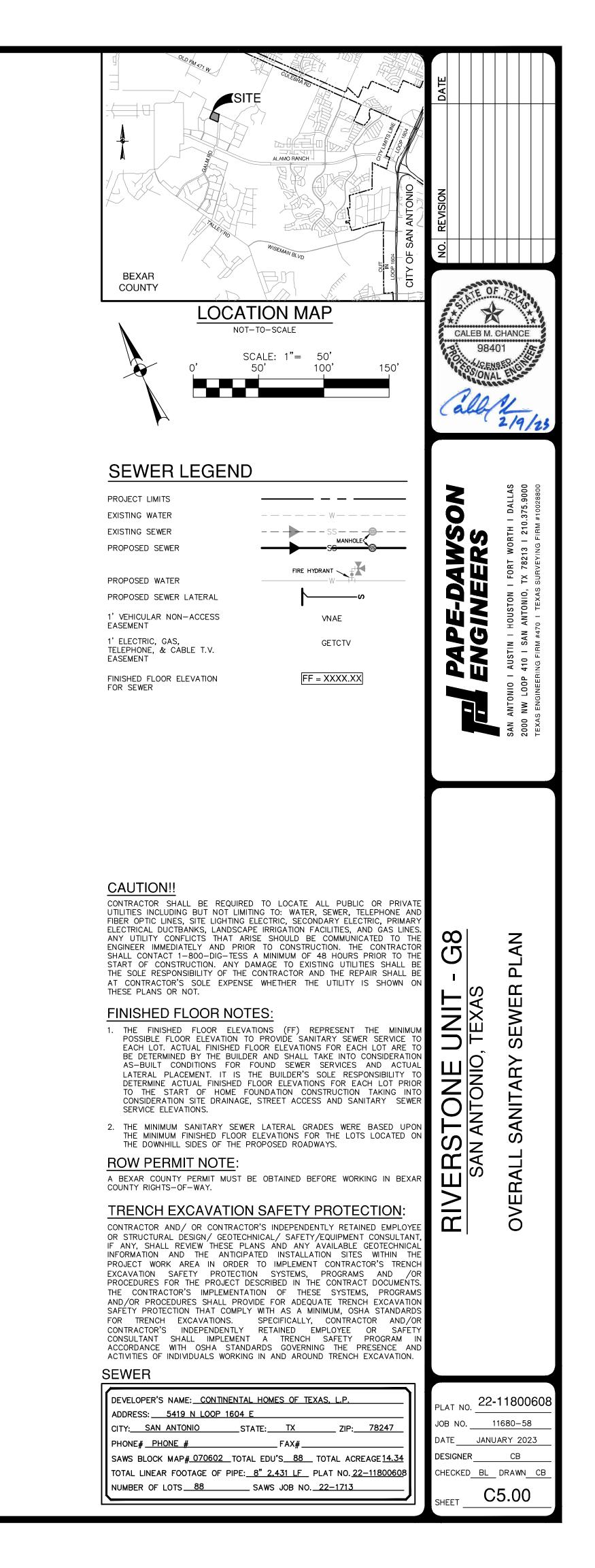
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M D LLS. HELL. HLC ISF	ENGINEERS	SAN ANTONIO I AUSTIN I HOUSTON I FORT WORTH I DALLAS 2000 NW LOOP 410 I SAN ANTONIO, TX 78213 I 210.375.9000 Texas engineering firm #470 i texas surveying firm #10028800
	RIVERSTONE UNIT - G8 SAN ANTONIO, TEXAS	WATER DISTRIBUTION PLAN NOTES
	PLAT NO. 22- JOB NO. 1 DATE OCTO DESIGNER CHECKED BL	1680–58 BER 2022 CB

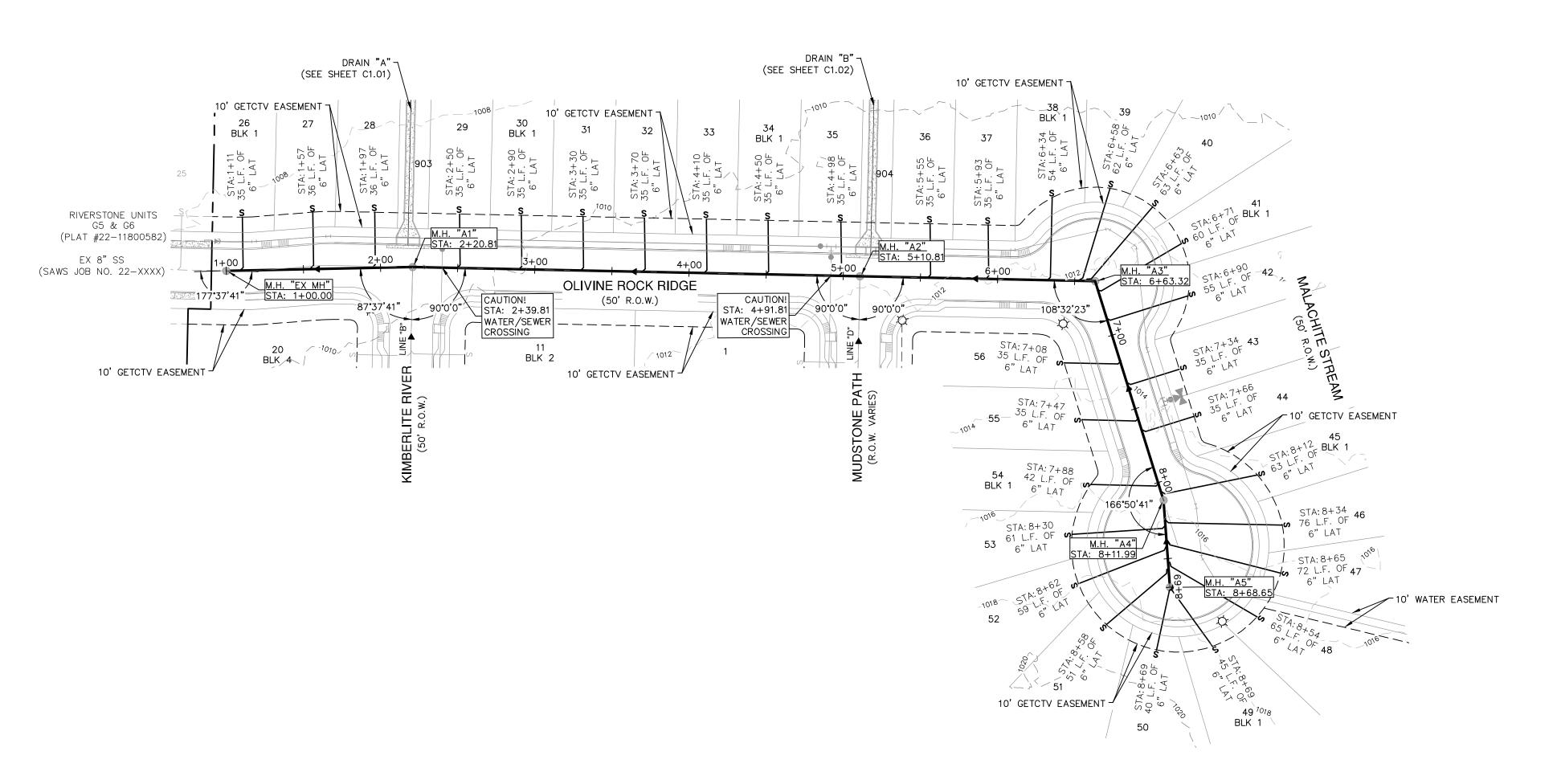
WATER (SAWS PRESSURE ZONE 8)

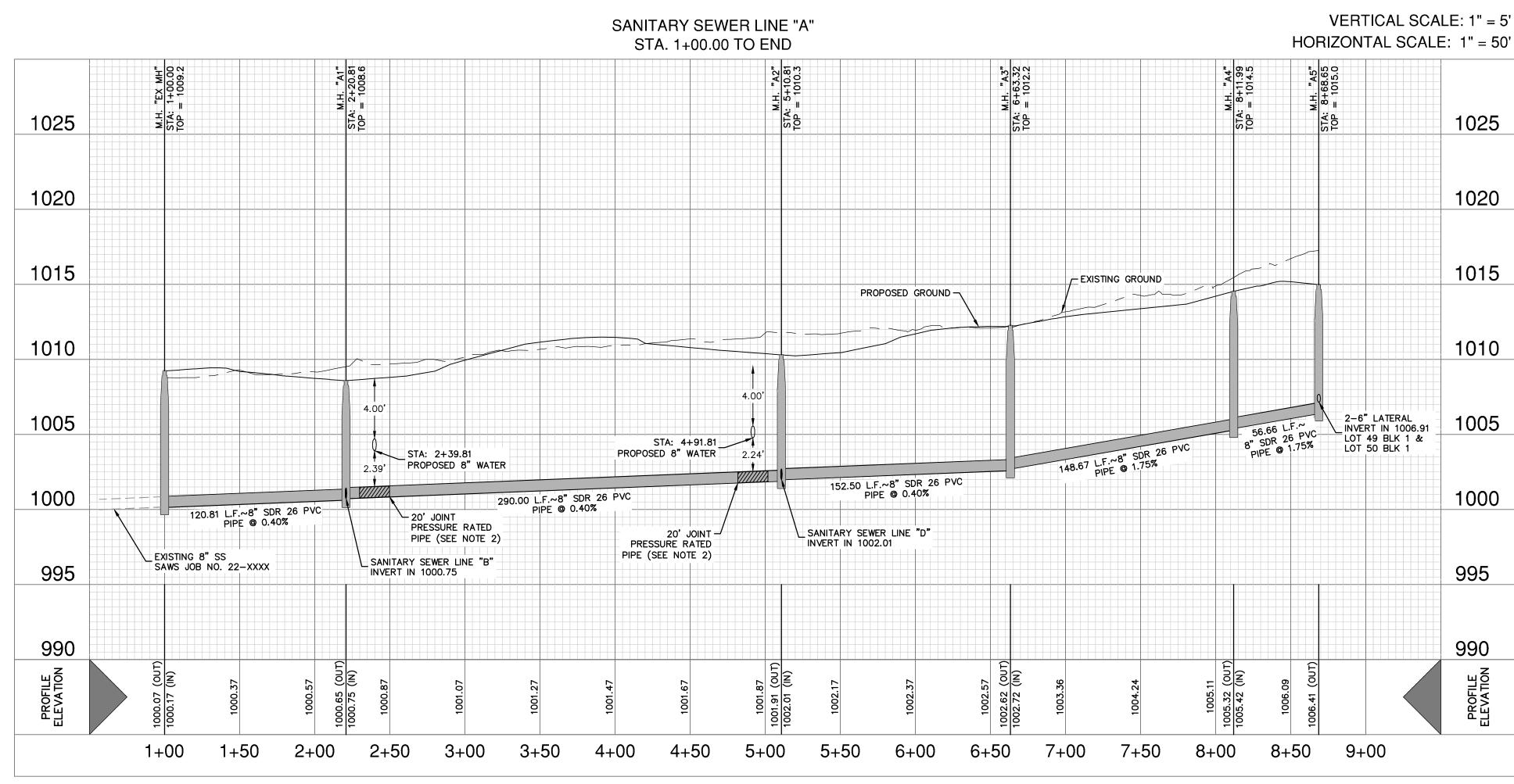
I	DEVELOPER'S NAME: CONTINENTAL HOMES OF TEXAS, L.P.
I	ADDRESS: 5419 N LOOP 1604 E
I	CITY: SAN ANTONIO STATE: TX ZIP: 78247
I	PHONE# FAX#
I	SAWS BLOCK MAR 4 070602 TOTAL EDU'S 88 TOTAL ACPEACE 14
I	SAWS BLOCK MAP# 070602 TOTAL EDU'S 88 TOTAL ACREAGE 14.3 12" - 101.50 TOTAL LINEAR FOOTAGE OF PIPE:8' - 2.905 LF PLAT NO. 22-118006
I	NUMBER OF LOTS 88 SAWS JOB NO. XXXX-XX
	NUMBER OF LUIS 00 SAWS JOB NO. XXXX-XX



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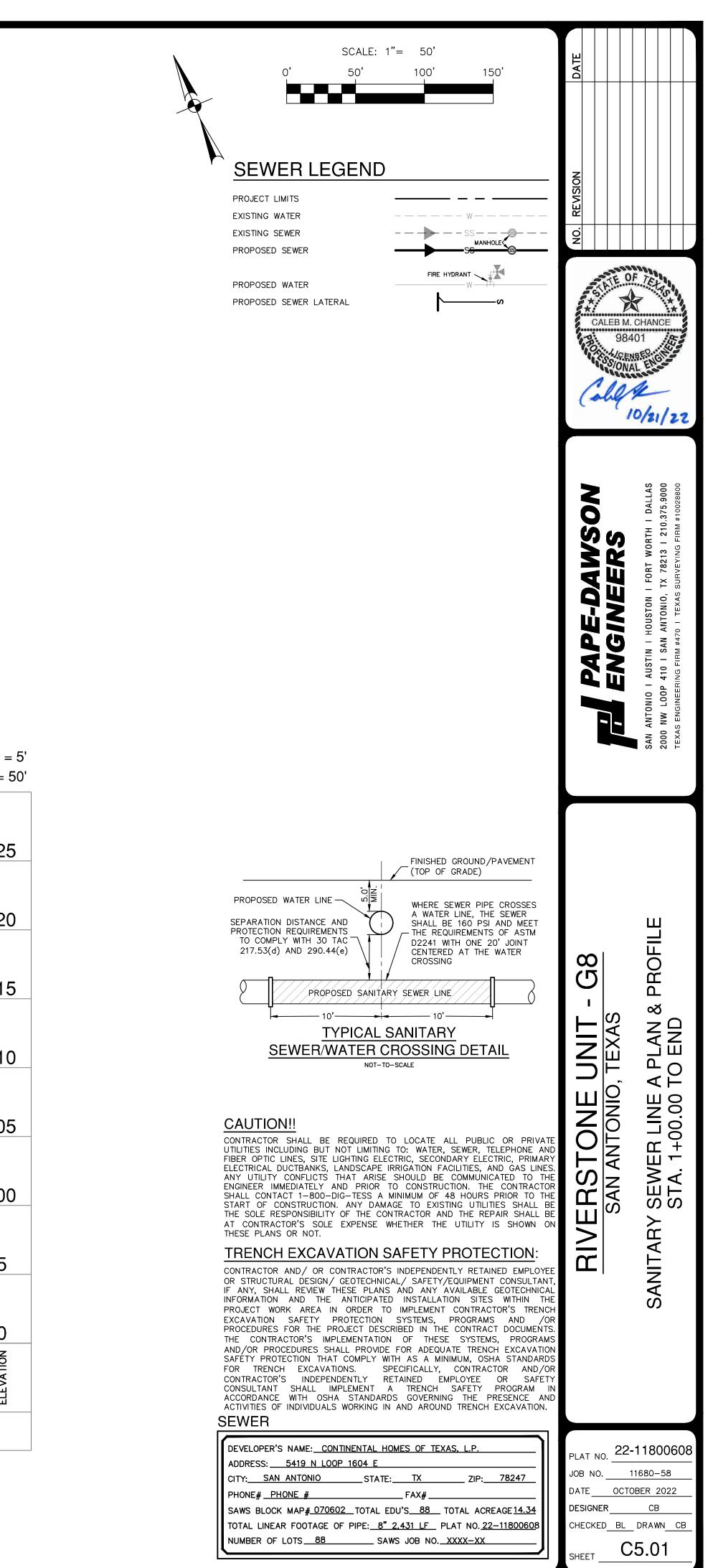




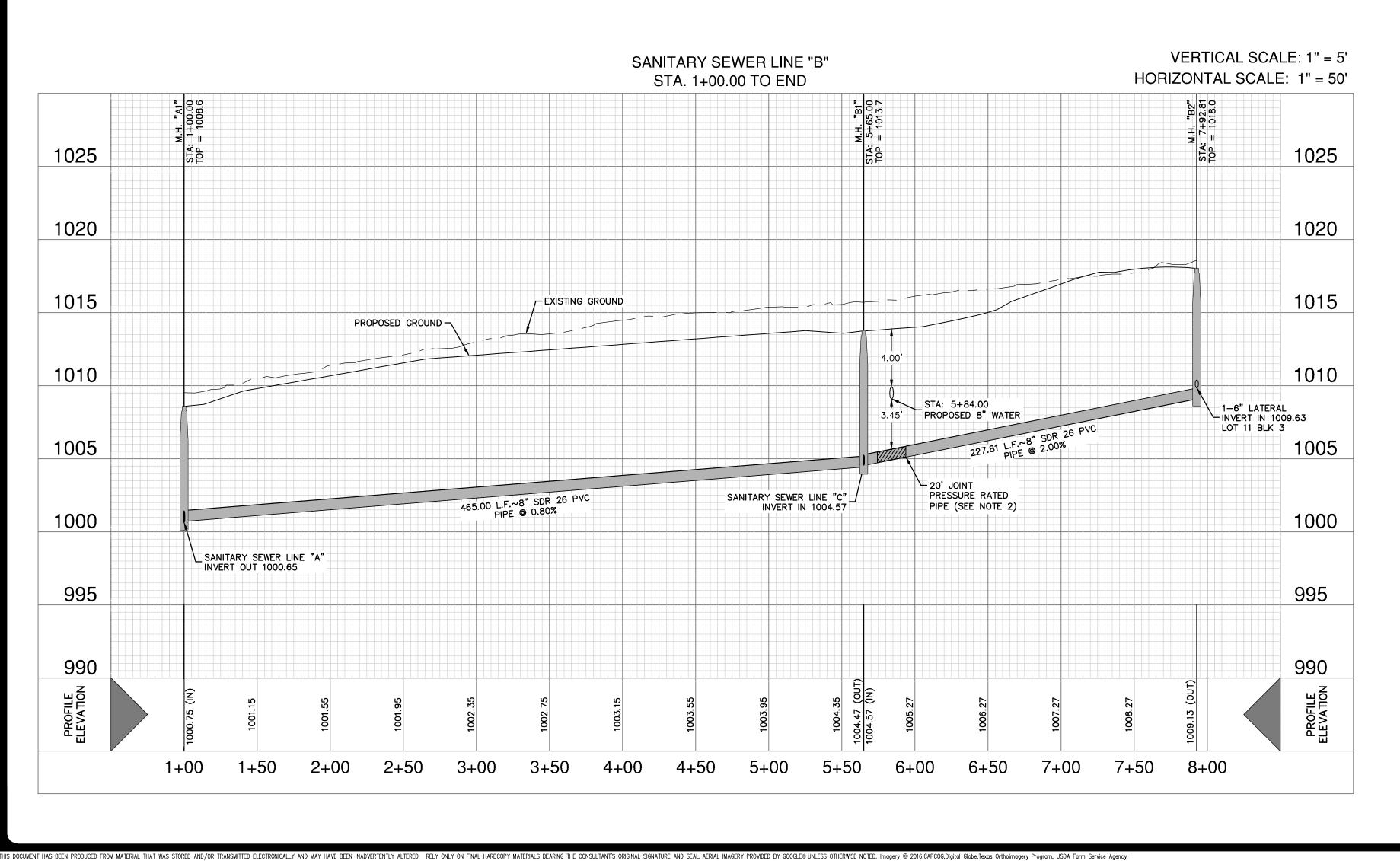


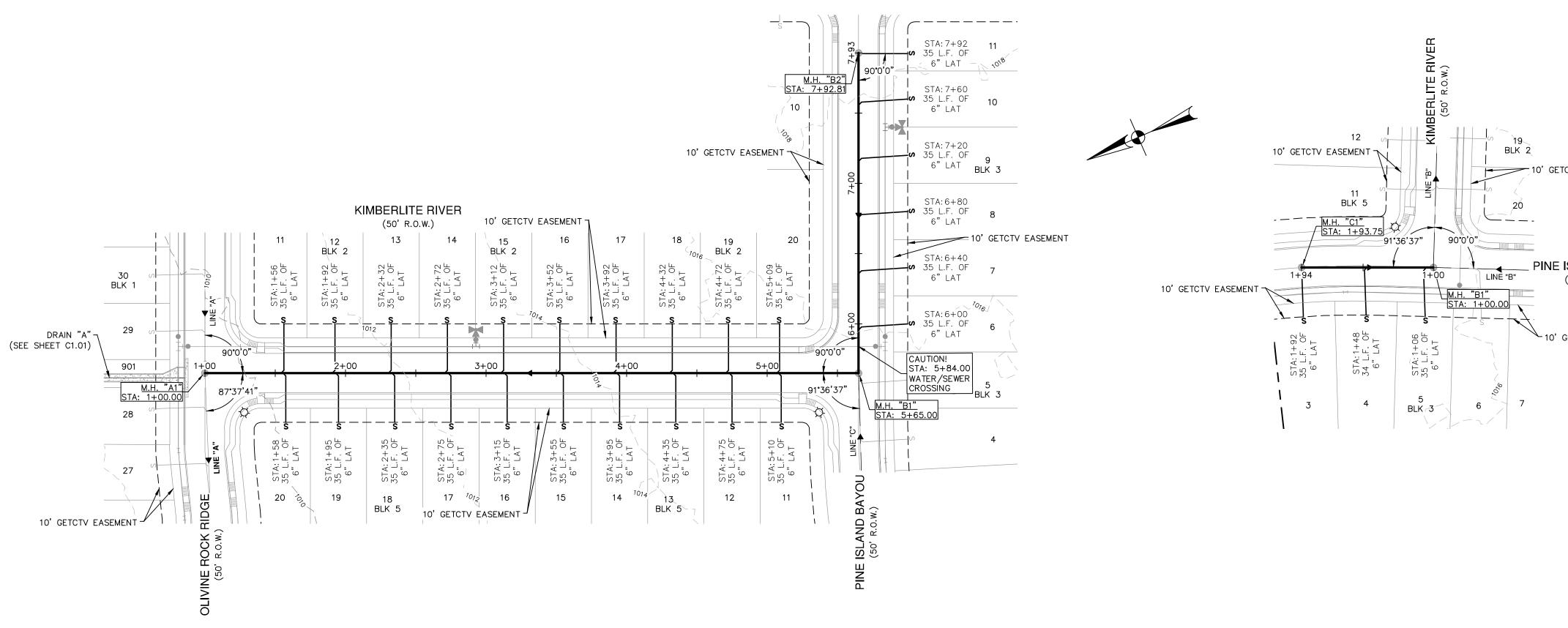
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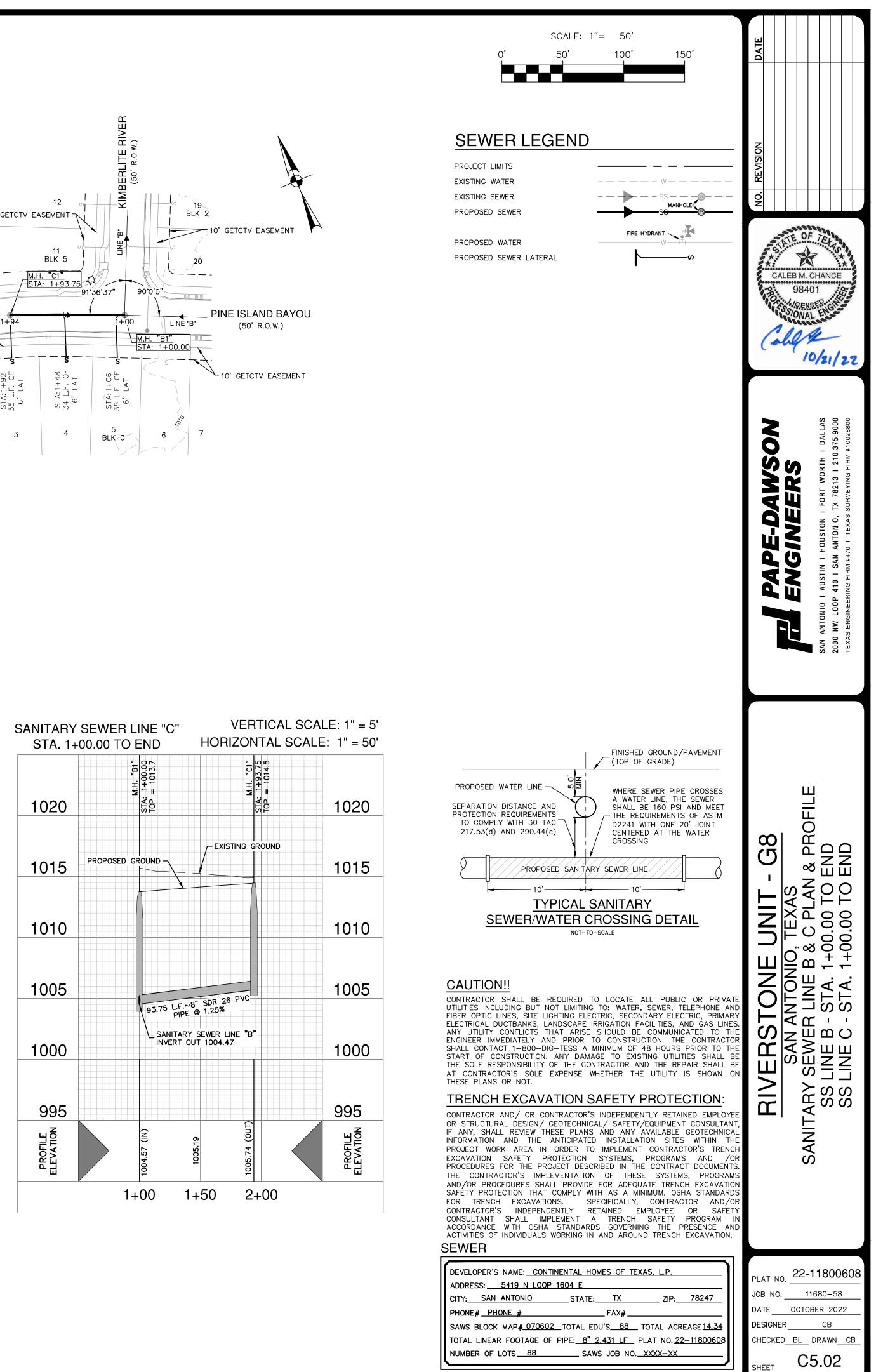
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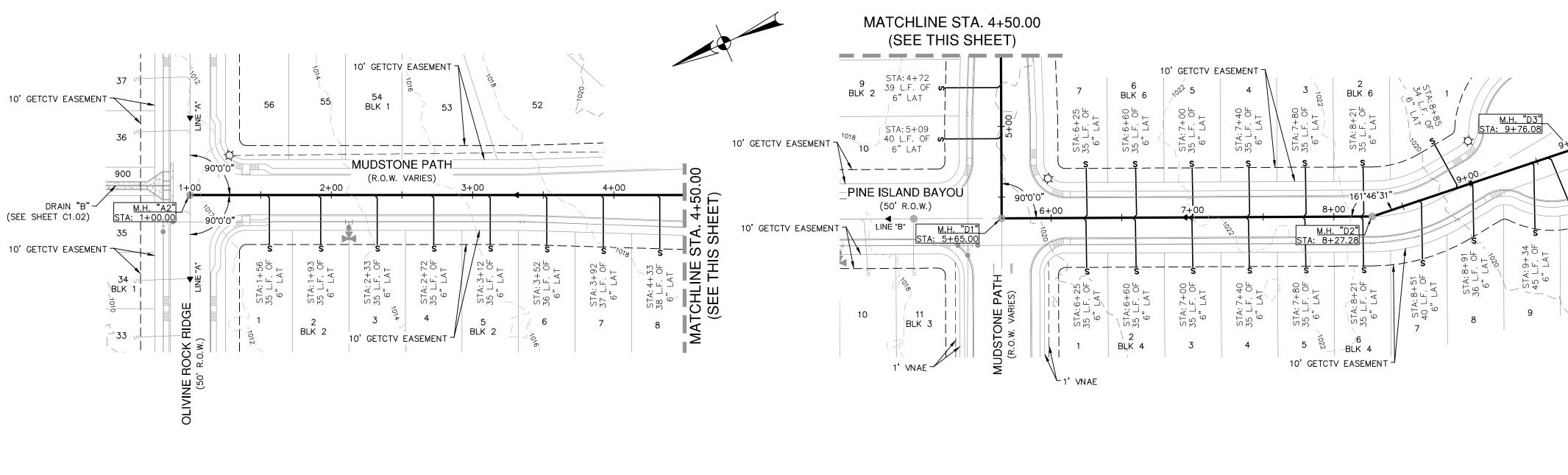


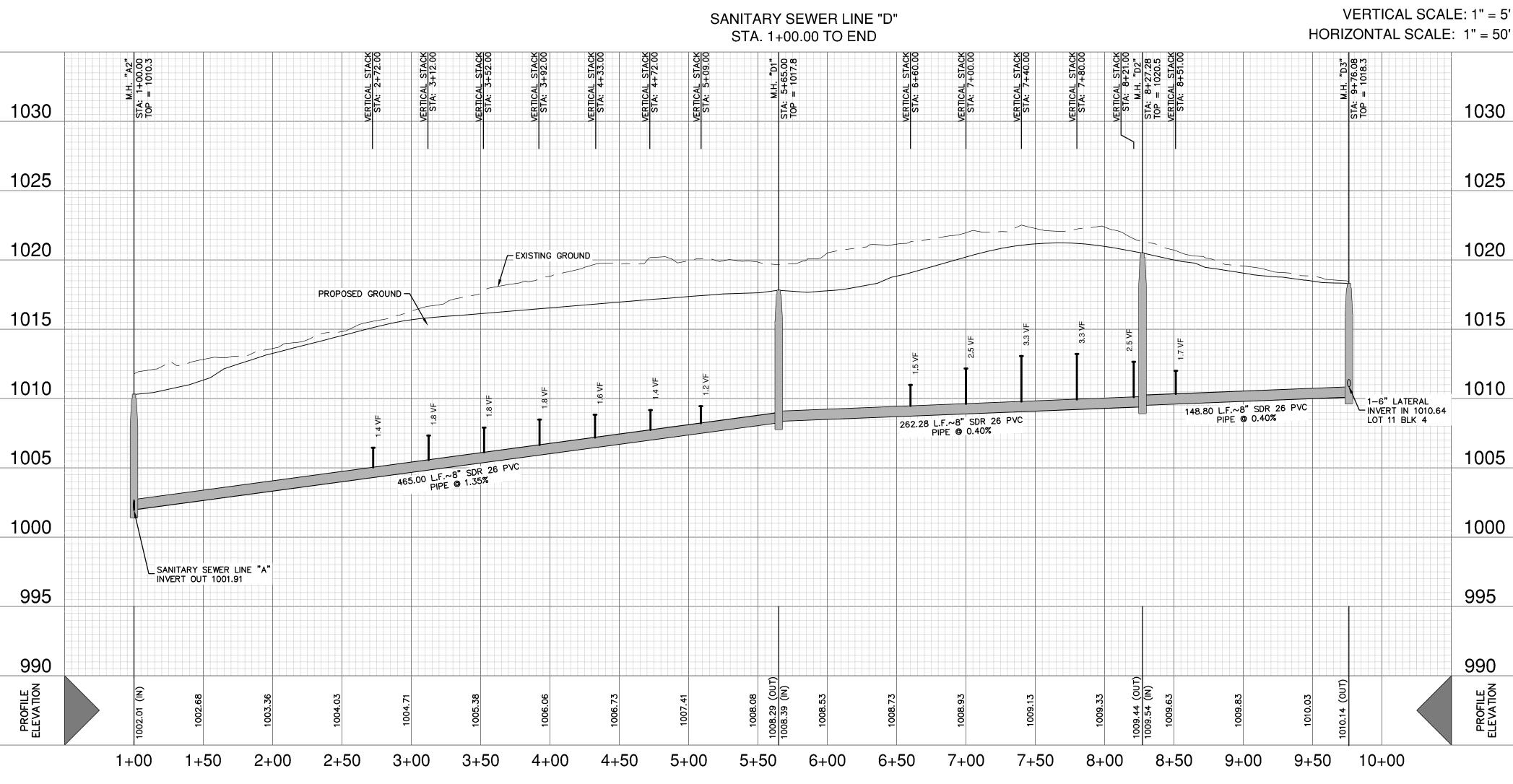




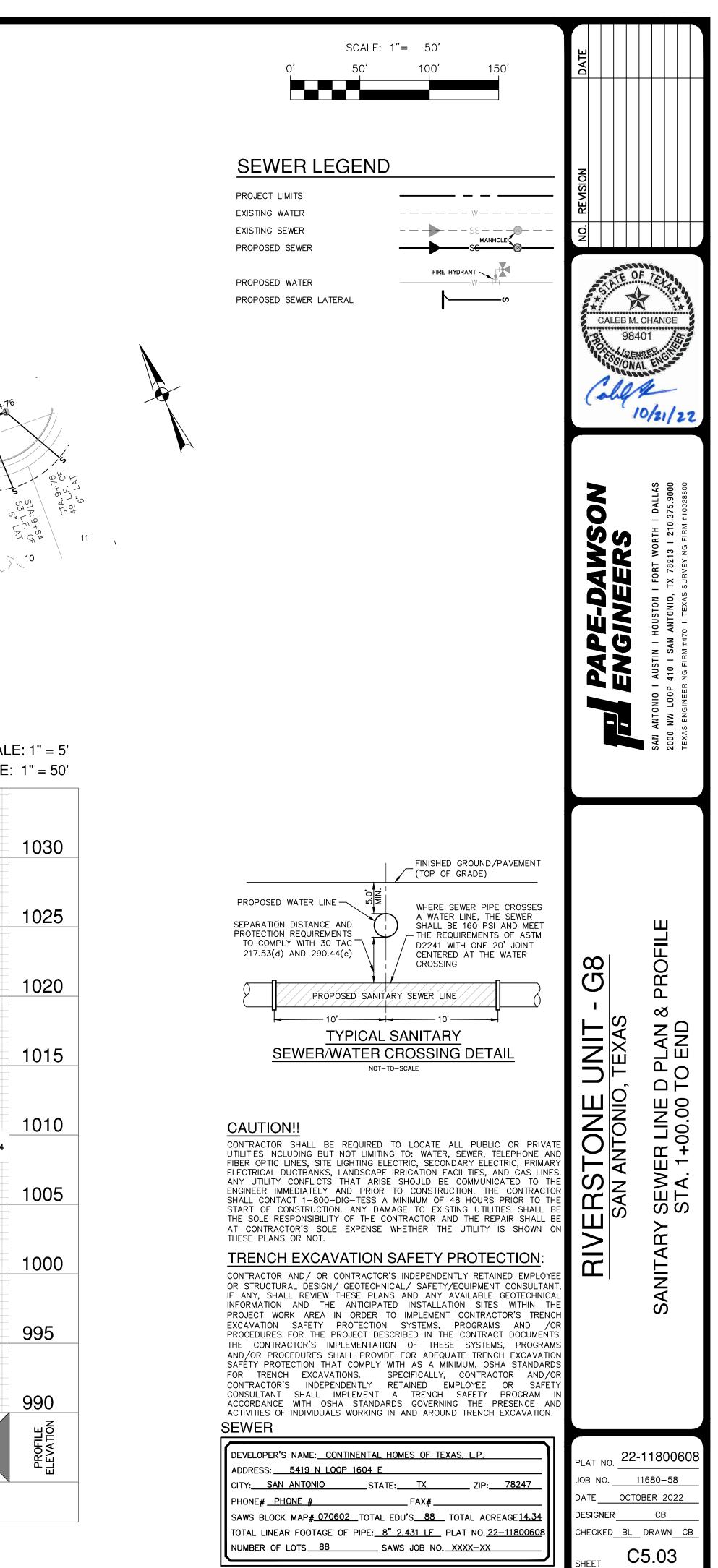


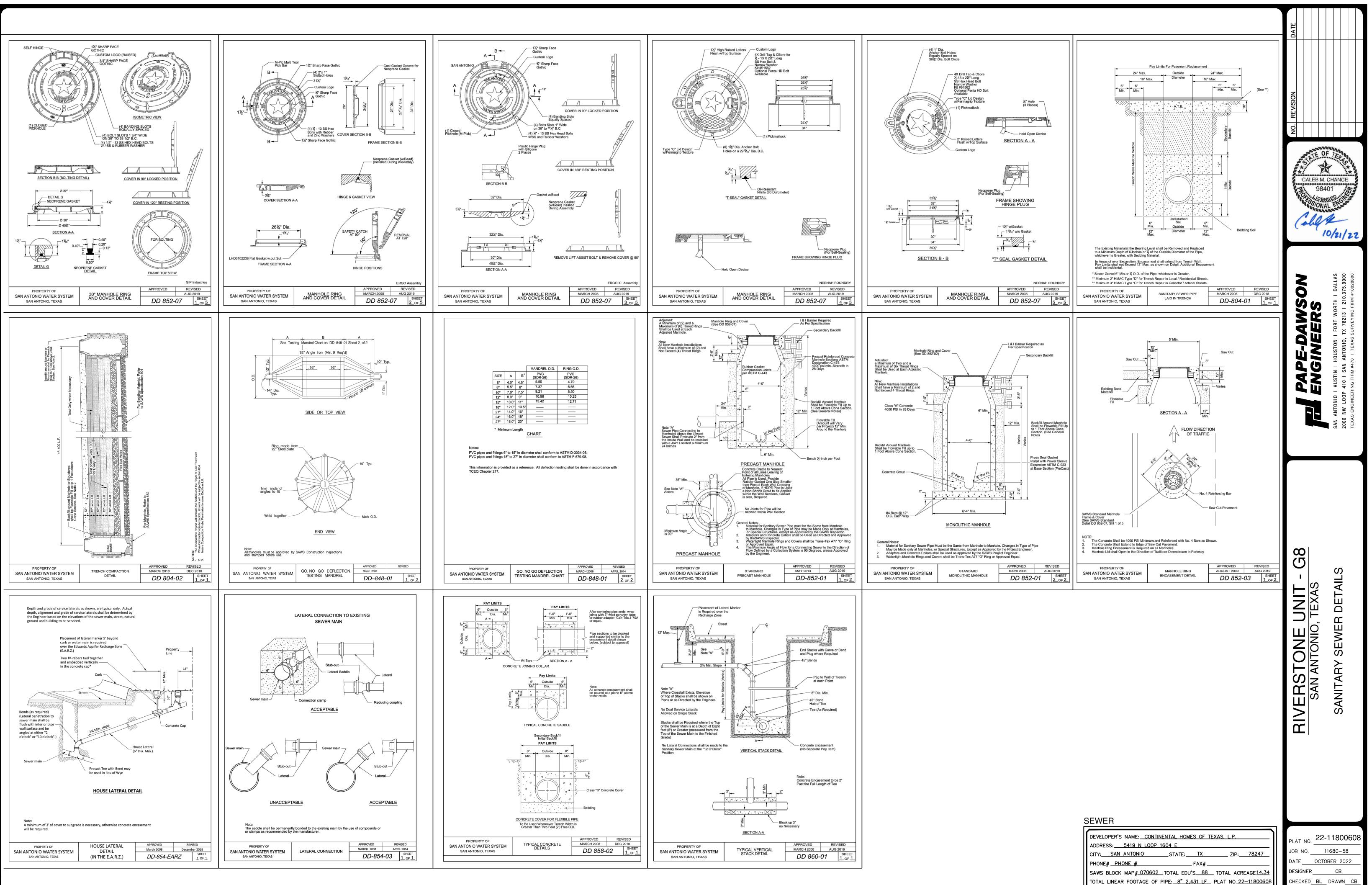






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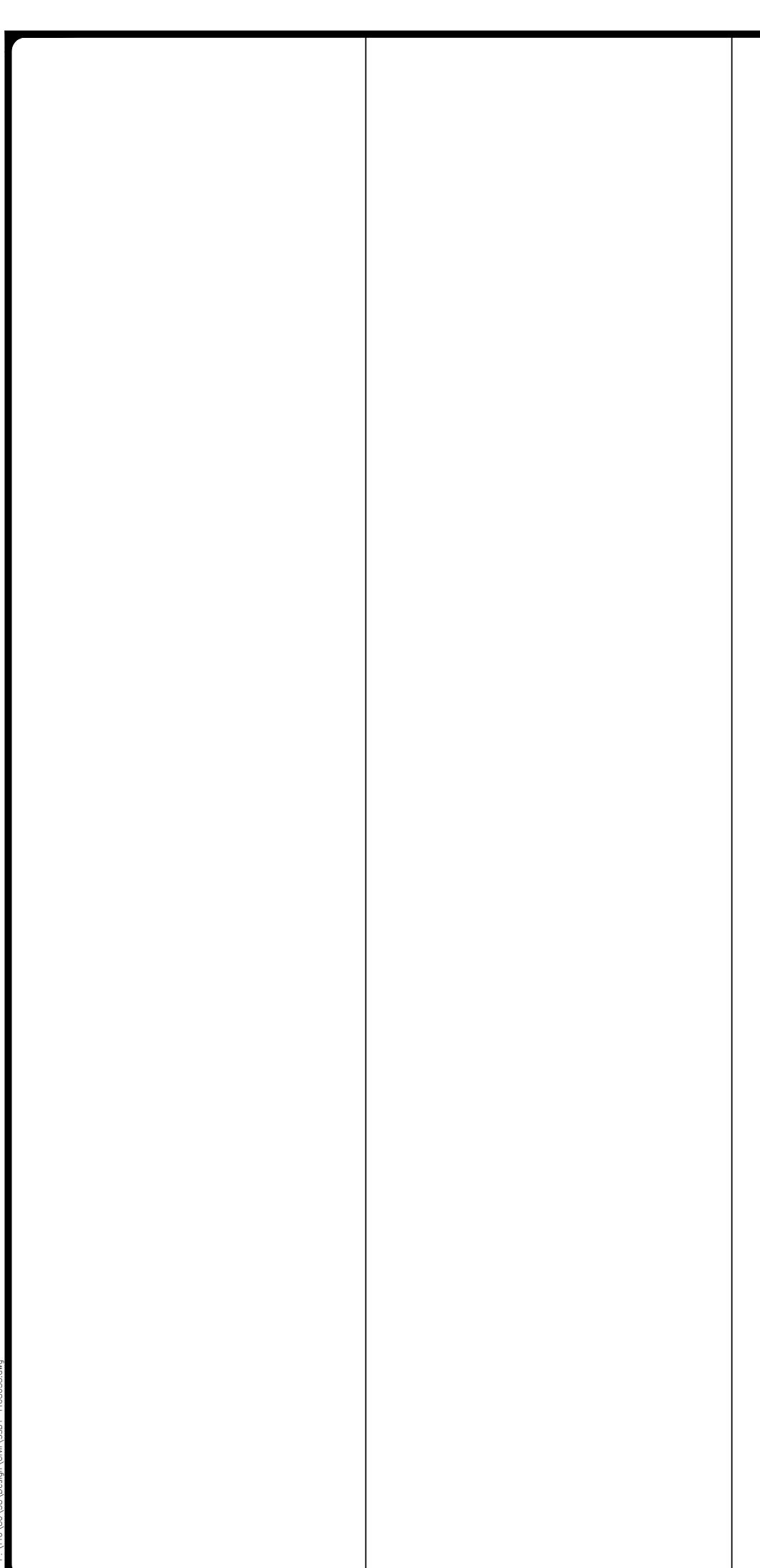


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NUMBER OF LOTS<u>88</u>

____ SAWS JOB NO.__XXXX-XX_



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 SAWS GENERAL SECTION ALL MATERIALS AND CONSTRUCTION PROCE CONTRACT SHALL BE APPROVED BY THE SAN COMPLY WITH THE PLANS, SPECIFICATIONS, FOLLOWING AS APPLICABLE: A. CURRENT TEXAS COMMISSION ON ENVIRO CRITERIA FOR DOMESTIC WASTEWATER CODE (TAC) TITLE 30 PART 1 CHAPTER B. CURRENT TXDOT "STANDARD SPECIFIC HICHWAYS, STREETS AND DRAINAGE". C. CURRENT TYDOT SAN ANTONIO "ATER SYSTEM WATER, TAC TUTY OF SAN ANTONIO "STANL WORKS CONSTRUCTION" E. CURRENT CITY OF SAN ANTONIO "UTILIT (UECM). THE CONTRACTOR SHALL NOT PROCEED WITH THEY OBTAIN A COPY OF THE APPROV CONSTRUCTION PERMIT (GCP) FROM THE CON SAWS CONSTRUCTION SPECTION PROVEED WITH THEY OBTAIN A COPY OF THE APPROV CONSTRUCTION PERMIT (GCP) FROM THE CON SAWS CONSTRUCTION SPECTION MILE CON SAWS CONSTRUCTION SPECTION SPECTION REQUIREMENTS. WORK COMPLETED BY THE 'CONTRET PERMIT AND/OR A CCP WILL REPLACEMENT AT THE EXPENSE OF THE CONT SAWS CONSTRUCTION AT THE CONTRACTOR IS TO MAKE ARRANGEME INSPECTION DIVISION AT THE CONTRACTOR SHALL OBTAIN THE SAWS WEBSITE, HTTP://WWW.SAWS.ORG/BUSINESS_C NOTED WITHIN THE DESIGN PLANS. THE CONTRACTOR SHALL OBTAIN THE SAWS WEBSITE, HTTP://WWW.SAWS.ORG/BUSINESS_C NOTED WITHIN THE DESIGN PLANS. THE CONTRACTOR SHALL WERFY THE EXACT AND DRAINAGE STRUCTURES AT LEAST 1- WETHER SHOW NORK. LOCATION AND DEPTH OF EXISTING UTILITES THE PLANS ARE UNDERSTOOD TO BE APP UTILITY SERVICE LINES AS REQUIRED FOR CO DURING CONSTRUCTION AT NO COST TO SAWS THE CONTRACTOR SHALL VERIFY THE EXACT AND DRAINAGE STRUCTURES AT LEAST 1- WETHER SHOWN ON PLANS OR NOT PLEAS LOCATES REQUESTING PIPE LOCATION MAKE SUPPL • SAWS UTILITY LOCATES: HTTP://WWW.SAW • COSA DRAINAGE (210) 207-0724 OR (21 • COSA TRAFFIC SIGNAL DMAMAGES (210) 20 • DEXAN WITHER SOMAL OR DEPARTMENT ON TRAND/OR PROFE BEDING AT ON PLANS OR NOT PLEAS • DOCONTRACTOR SHALL VERIFY THE EXACT AND DRAINAGE STRUCTURES AT LEAST 1- WETTHER SHOWN ON PLANS OR NOT PLEA	 SAWS GENERAL SECTION ALL MATERIALS AND CONSTRUCTION PROCES CONTRACT SHALL BE APPROVED BY THE SAN COMPLY WITH THE PLANS, SPECIFICATIONS, FOLLOWING AS APPLICABLE: A. CURRENT TEXAS COMMISSION ON ENVIROD COLE (TAC) TITLE 30 PART 1 CHAPTER B. CURRENT TATODT "STANDARD SPECIFIC HIGHWAYS, STREETS AND DRAINAGE". C. CURRENT TSAN ANTONIO WATER SYSTEM WATER AND SANITARY SEVER CONSTRUCT D. CURRENT CITY OF SAN ANTONIO "STAND WATER AND SANITARY SEVER CONSTRUCT D. CURRENT CITY OF SAN ANTONIO "UTLIT WATER AND SANITARY SEVER CONSTRUCT D. CURRENT CITY OF SAN ANTONIO "UTLIT CURRENT CITY OF SAN ANTONIO "UTLIT CURRENT CITY OF SAN ANTONIO "UTLIT E. CURRENT TO FARM ANTONIO "UTLIT E. CURRENT CITY OF SAN ANTONIO "UTLIT E. CURRENT CITY OF SAN ANTONIO "UTLIT E. CURRENT CITY OF SAN ANTONIO "UTLIT E. CURRENT TAND/OR A GCP WILL REPLACEMENT AT THE EXPERSION CONSTRUCTION PERMIT GCP) FROM THE CONT SAWS CONSTRUCTION INSPECTION DIVISION TO ARRANGED A MEETING WITH THE INSPECTOR REQUIREMENTS. WORK COMPLETED BY THE CONT COUNTER PERMIT AND/OR A GCP WILL REPLACEMENT AT THE EXPENSION (210) 233-2973, ON NOTFICATION PROCEDUL AFFECTED HOME RESIDENTS AND/OR PROPE BEGINNING ANY WORK. LOCATION AND DEPTH OF EXISTING UTLITES THE PLANS ARE UNDERSTOOD TO BE APP DEPTHS MUST BE FIELD VERIFIED BY THE CON CONSTRUCTION, IT SHALL BE THE CONTRO UTRING CONSTRUCTION AT NO COST TO SAWS. THE CONTRACTOR SHALL VERIFY THE EXACT AND DRAINAGE STRUCTURES AT LEAST 1 WHETHER SHOWN ON PLANS OR NOT. PLEASE LOCATES REQUESTING PIPE LOCATION MA FOLLOWING CONTACT INFORMATION ARE SUPPL • SAWS UTLITY LOCATES: HTTP: //WWK.SAW • COSA TRAFFIC SIGNAL DARAGES (210) 20 • TEXAS STATE WIDE ONE CALL LOCATION 16 DARAGES STRUCTION SPECIFICATIONS AND PERMIT RI • COSA TRAFFIC SIGNAL ADARGES (210) 20 • TEXAS STATE WIDE ONE CALL LOCATION 16 DARAGES PROJECT'S CONSTRUCTION. SANDAGES (210) 20 • TEXAS STATE WIDE ONE CALL LOCATION 16 • SAWS UTLITY LOCATES: HTTP: //WWW.SAW • COSA TRAFFIC SIGNAL DARAGES (210) 20 • TEXAS STATE WIDE ONE CALL LOCATOR 14 • MEDI	SAWS CONSTRUC
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CTION NOTES UARY 2022)

CEDURES WITHIN THE SCOPE OF THIS AN ANTONIO WATER SYSTEM (SAWS) AND GENERAL CONDITIONS AND WITH THE

RONMENTAL QUALITY (TCEQ) 'DESIGN SYSTEM", TEXAS ADMINISTRATIVE APTER 217 AND "PUBLIC DRINKING FICATIONS FOR CONSTRUCTION OF TEM STANDARD SPECIFICATIONS FOR ANDARD SPECIFICATIONS FOR PUBLIC

LITY EXCAVATION CRITERIA MANUAL"

ITH ANY PIPE INSTALLATION WORK UNTIL OVED COUNTER PERMIT OR GENERAL NSULTANT AND HAS BEEN NOTIFIED BY TO PROCEED WITH THE WORK AND HAS OR AND CONSULTANT FOR THE WORK CONTRACTOR WITHOUT AN APPROVED BE SUBJECT TO REMOVAL AND NTRACTORS AND/OR THE DEVELOPER.

S STANDARD DETAILS FROM THE SAWS _CENTER/SPECS. UNLESS OTHERWISE

URES THAT WILL BE USED TO NOTIFY OPERTY OWNERS 48 HOURS PRIOR TO

ES AND SERVICE LATERALS SHOWN ON APPROXIMATE. ACTUAL LOCATIONS AND CONTRACTOR AT LEAST 1 WEEK PRIOR TO TRACTOR'S RESPONSIBILITY TO LOCATE CONSTRUCTION AND TO PROTECT THEM

LOCATION OF UNDERGROUND UTILITIES -2 WEEKS PRIOR TO CONSTRUCTION E ALLOW UP TO 7 BUSINESS DAYS FOR MARKERS ON SAWS FACILITIES. THE PLIED FOR VERIFICATION PURPOSES:

SAWS.ORG/SERVICE/LOCATES

210) 207-6026 10) 206-8480

207-3951 1-800-545-6005 OR 811

_E FOR RESTORING EXISTING FENCES, ANDSCAPING AND STRUCTURES TO ITS GES ARE MADE AS A RESULT OF THE

ANSPORTATION (TXDOT) AND/OR BEXAR IN ACCORDANCE WITH RESPECTIVE REQUIREMENTS.

CITY OF SAN ANTONIO OR OTHER S WHEN EXCAVATING NEAR TREES. WASTE MATERIALS IN THE 100-YEAR APPROVED FLOOD PLAIN PERMIT.

DULD BE SENT TO

UIRED TO NOTIFY THE SAWS INSPECTION ADVANCE TO REQUEST WEEKEND WORK. EQ@SAWS.ORG.

D WITHOUT HOLIDAY/WEEKEND ERED FOR PROPER INSPECTION.

ITRACTOR SHALL BE RESPONSIBLE FOR ON ALL TRENCH BACKFILL AND FOR THIRD PARTY. COMPACTION TESTS WILL LY SELECTED, OR AS INDICATED BY THE INISTRATOR, PER EACH 12-INCH LOOSE THIS PROJECT WILL NOT BE ACCEPTED QUIREMENT BEING MET AND VERIFIED BY 5. ST RESULTS.

BE FORWARDED TO SAWS CONSTRUCTION

SAWS SEWER NOTES

THE CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT NO SANITARY SEWER OVERFLOW (SSO) OCCURS AS A RESULT OF THEIR WORK. ALL CONTRACTOR PERSONNEL RESPONSIBLE FOR SSO PREVENTION AND CONTROL SHALL BE TRAINED ON PROPER RESPONSE. SHOULD AN SSO OCCUR, THE CONTRACTOR SHALL:

A. IDENTIFY THE SOURCE OF THE SSO AND NOTIFY SAWS EMERGENCY OPERATIONS CENTER (EOC) IMMEDIATELY AT (210) 233-2014. PROVIDE THE ADDRESS OF THE SPILL AND AN ESTIMATED VOLUME OR FLOW. B.ATTEMPT TO ELIMINATE THE SOURCE OF THE SSO.

- C.CONTAIN SEWAGE FROM THE SSO TO THE EXTENT OF PREVENTING A POSSIBLE CONTAMINATION OF WATERWAYS. D.CLEAN UP SPILL SITE (RETURN CONTAINED SEWAGE TO THE
- COLLECTION SYSTEM IF POSSIBLE) AND PROPERLY DISPOSE OF CONTAMINATED SOIL/MATERIALS.
- E.CLEAN THE AFFECTED SEWER MAINS AND REMOVE ANY DEBRIS. F.MEET ALL POST-SSO REQUIREMENTS AS PER THE EPA CONSENT DECREE, INCLUDING LINE CLEANING AND TELEVISING THE AFFECTED SEWER MAINS (AT SAWS DIRECTION) WITHIN 24 HOURS.

SHOULD THE CONTRACTOR FAIL TO ADDRESS AN SSO IMMEDIATELY AND TO SAWS SATISFACTION, THEY WILL BE RESPONSIBLE FOR ALL COSTS INCURRED BY SAWS, INCLUDING ANY FINES FROM EPA, TCEQ AND/OR ANY OTHER FEDERAL, STATE OR LOCAL AGENCIES.

NO SEPARATE MEASUREMENT OR PAYMENT SHALL BE MADE FOR THIS WORK. ALL WORK SHALL BE DONE ACCORDING TO GUIDELINES SET BY THE TCEQ AND SAWS.

- EMENTS WITH THE SAWS CONSTRUCTION 2. IF BYPASS PUMPING IS REQUIRED, THE CONTRACTOR SHALL PERFORM SUCH WORK IN ACCORDANCE WITH SAWS STANDARD SPECIFICATION FOR WATER AND SANITARY SEWER CONSTRUCTION, ITEM NO. 864, "BYPASS PUMPING".
 - PRIOR TO TIE-INS. ANY SHUTDOWNS OF EXISTING FORCE MAINS OF ANY SIZE MUST BE COORDINATED WITH THE SAWS CONSTRUCTION INSPECTION DIVISION AT (210) 233-2973 AT LEAST ONE WEEK 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.
 - SEWER PIPE WHERE WATER LINE CROSSES SHALL BE 160 PSI AND MEET THE REQUIREMENTS OF ASTM D2241, TAC 217.53 AND TCEQ 290.44(E)(4)(B). CONTRACTOR SHALL CENTER A 20' JOINT OF 160 PSI PRESSURE RATED PVC AT THE PROPOSED WATER CROSSING.
 - ELEVATIONS POSTED FOR TOP OF MANHOLES ARE FOR REFERENCE ONLY: IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO MAKE ALLOWANCES AND ADJUSTMENTS FOR TOP OF MANHOLES TO MATCH THE FINISHED GRADE OF THE PROJECT'S IMPROVEMENTS. (NSPI)
 - 6. SPILLS, OVERFLOWS, OR DISCHARGES OF WASTEWATER: ALL SPILLS, OVERFLOWS, OR DISCHARGES OF WASTEWATER, RECYCLED WATER, PETROLEUM PRODUCTS, OR CHEMICALS MUST BE REPORTED IMMEDIATELY TO THE SAWS INSPECTOR ASSIGNED TO THE COUNTER PERMIT OR GENERAL CONSTRUCTION PERMIT (GCP). THIS REQUIREMENT APPLIES TO EVERY SPILL, OVERFLOW, OR DISCHARGE RÉGARDLESS OF SIZE.
 - MANHOLE AND ALL PIPE TESTING (INCLUDING THE TV INSPECTION) MUST BE PERFORMED AND PASSED PRIOR TO FINAL FIELD ACCEPTANCE BY SAWS CONSTRUCTION INSPECTION DIVISION, AS PER THE SAWS SPECIFICATIONS FOR WATER AND SANITARY SEWER CONSTRUCTION.
 - 8. ALL PVC PIPE OVER 14 FEET OF COVER SHALL BE EXTRA STRENGTH WITH MINIMUM PIPE STIFFNESS OF 115 PSI.

ALLOWED TO PERFORM SAWS WORK ON | PROJECT SEWER NOTES

- ALL RESIDENTIAL SEWER SERVICE LATERALS ARE 6" DIA. AND SHALL BE EXTENDED TO 10' PAST THE PROPERTY LINE AND CAPPED AND SEALED. CONTRACTOR SHALL INSTALL A 2" X 4" STAKE, FOUR (4) FEET LONG, TWO (2) FEET DEEP INTO THE GROUND AT THE END OF EACH SERVICE. NO SEPARATE PAY ITEM.
- CONTRACTOR TO INSTALL CLEANOUTS AT THE END OF ALL SEWER LATERALS, PER LATERAL DETAIL SHEET CX.XX
- 3. NO VERTICAL STACKS ALLOWED FOR ANY LOTS UNLESS OTHERWISE SPECIFIED BY THE ENGINEER.
- . ALL 6" SEWER LATERALS WILL BE SET AT 2% GRADE FROM THE MAIN TO THE PROPERTY LINE.
- . WHEN HORIZONTAL DISTANCE BETWEEN SEWER PIPES AND WATER MAIN IS LESS THAN 9 FOOT OF SEPARATION, SEWER MAIN SHALL BE INSTALLED WITH 150 PSI (MIN) PRESSURE PIPE AND FITTINGS IN ACCORDANCE WITH SAWS CONSTRUCTION CRITERIA FOR CONSTRUCTION OF SEWER MAINS IN THE VICINITY OF WATER MAINS.
- 5. CONTRACTOR SHALL ENSURE THAT MANHOLES OUTSIDE OF PAVED AREAS ARE SET WITH TOP ELEVATIONS 6" ABOVE FINISHED GRADE WITH CONCRETE RING ENCASEMENT.
- 7. ALL SEWER PIPES SHALL BE 8" PVC (SDR 26), UNLESS OTHERWISE NOTED. 8. CONTRACTOR IS TO VERIFY EXISTING INVERT OF EXISTING SANITARY SEWER MAINS AND ALERT ENGINEER IMMEDIATELY OF ANY DIFFERENCE FROM
- INVERT SHOWN ON PLANS. 9. CONTRACTOR SHALL PROTECT ALL EXISTING FENCES. ANY FENCE DAMAGED BY THE CONTRACTOR SHALL BE REPAIRED BY THE CONTRACTOR AT THEIR
- EXPENSE. 10. THE CONTRACTOR WILL BE RESPONSIBLE FOR DETERMINING EXACT LOCATION OF ALL UTILITIES AND DRAINAGE STRUCTURES WHETHER SHOWN ON THE PLANS OR NOT. THE CONTRACTOR SHALL UNCOVER EXISTING UTILITIES PRIOR TO CONSTRUCTION TO VERIFY SIZE, GRADE, AND LOCATION. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY OF ANY DEVIATIONS FROM PLANS PRIOR TO BEGINNING CONSTRUCTION. ANY DAMAGE TO EXISTING UTILITIES, WHETHER SHOWN ON THE PLANS OR NOT, SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO REPAIR, AT HIS EXPENSE.
- I. CONCRETE RING ENCASEMENT TO BE INSTALLED ON ALL MANHOLES AND, WITHIN LIMITS OF PAVEMENT, BE INSTALLED TO THE TOP OF THE BASE LAYER WITH A MINIMUM OF 2" OF ASPHALT ON TOP OF THE RING ENCASEMENT.
- 12. MANHOLE OPENING INCREASED TO 30" AS PER TAC CHAPTER 217.55.
- 13. ALL SEWER PIPE LATERALS SHALL BE SDR 26 (CLASS 160) PVC PIPE.
- 14. IF THE GIVEN TOP OF MANHOLE ELEVATION DOES NOT AGREE ON ACTUAL GROUND SURFACE OR FINISH PAVEMENT, THE CONTRACTOR SHALL ADJUST ELEVATIONS SUCH THAT THE TOP OF MANHOLE SHALL BE 0.5' ABOVE EXISTING GROUND, OR FLUSH TO FINISH ASPHALT PAVEMENT.
- 15. ALL MANHOLES CONSTRUCTED OVER THE EDWARDS AQUIFER RECHARGE ZONE SHOULD BE WATERTIGHT.

SEWER

DEVELOPER'S NAME: CONTI	NENTAL HOMES OF	TEXAS, L.P.	
ADDRESS: 5419 N LOOP	1604 E		
CITY: SAN ANTONIO	STATE:TX	ZIP:	78247
PHONE# <u>PHONE</u> #	FAX _#	¥	
SAWS BLOCK MAP# 070602		8 TOTAL ACF	REAGE <u>14.34</u>
TOTAL LINEAR FOOTAGE OF	PIPE: <u>8"2,431 L</u>	<u>F_</u> PLAT NO. <u>2</u>	<u>2–1180060</u> 8
NUMBER OF LOTS 88	SAWS JOB	NO. <u>XXXX-XX</u>	

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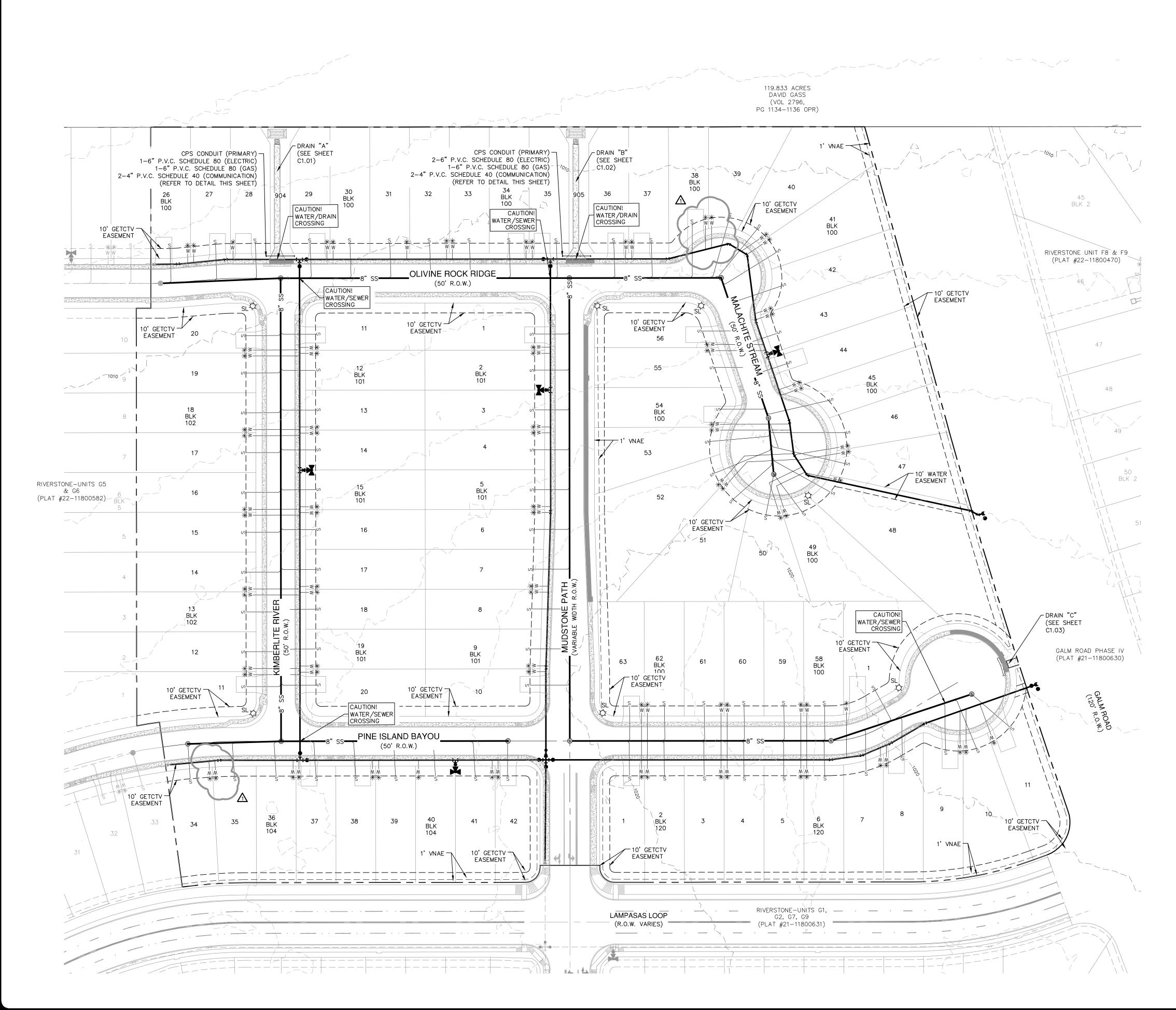
DESIGNER

SHEET

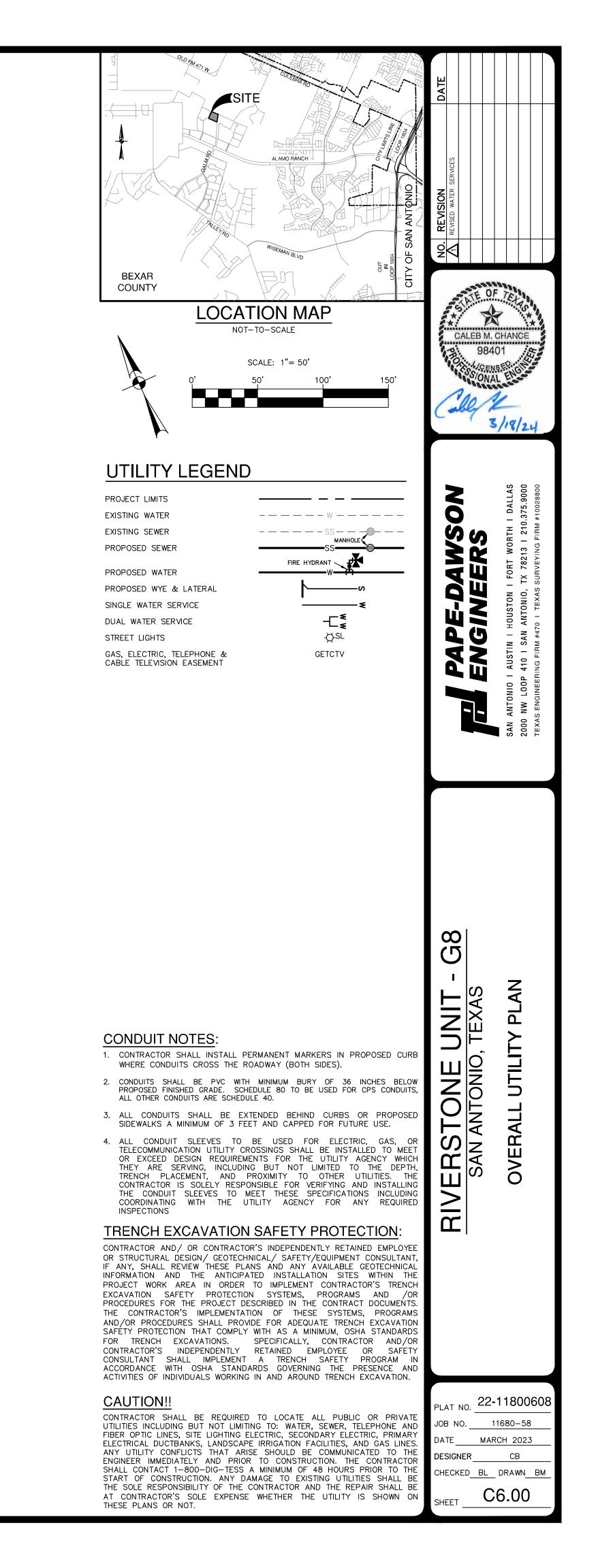
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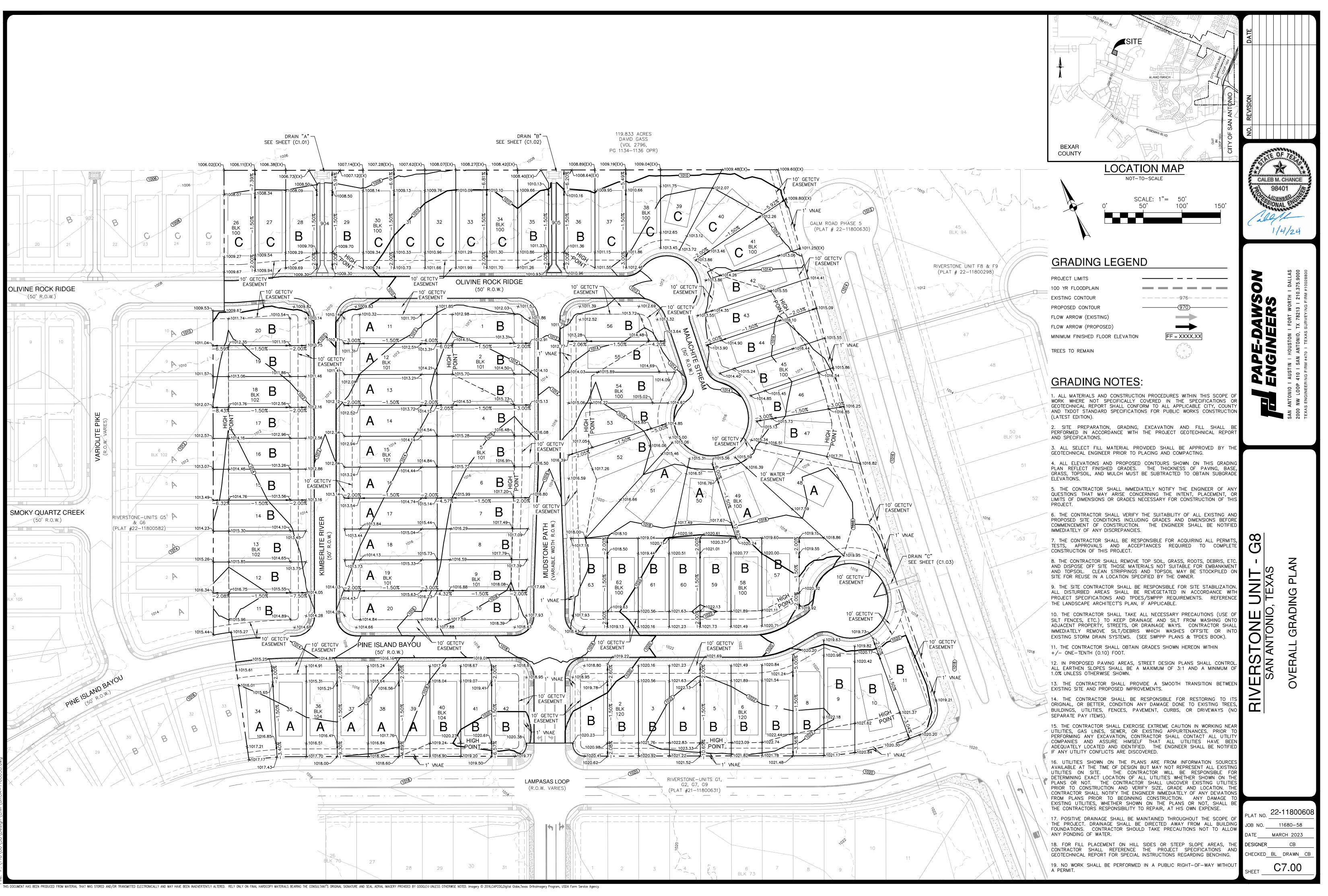
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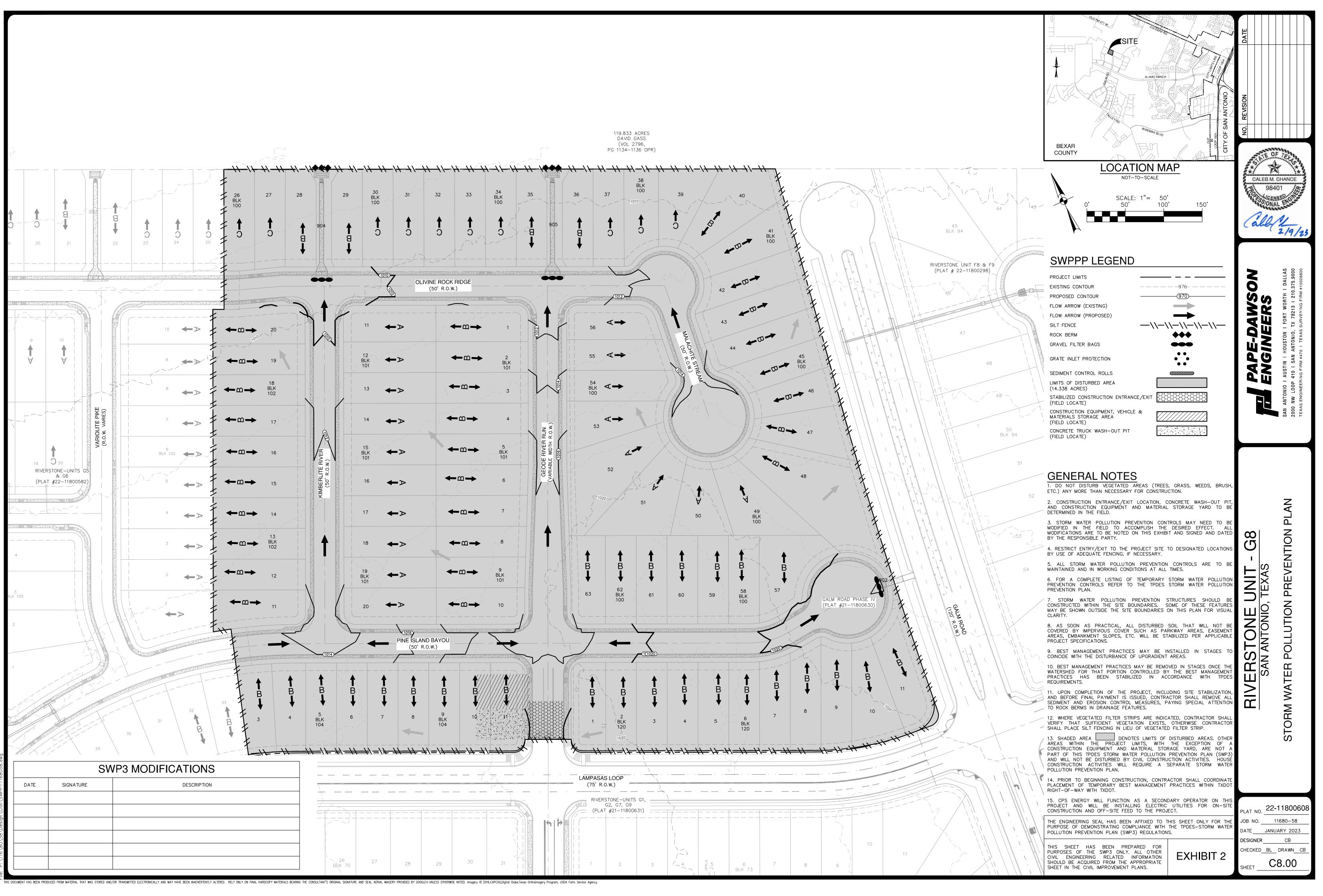


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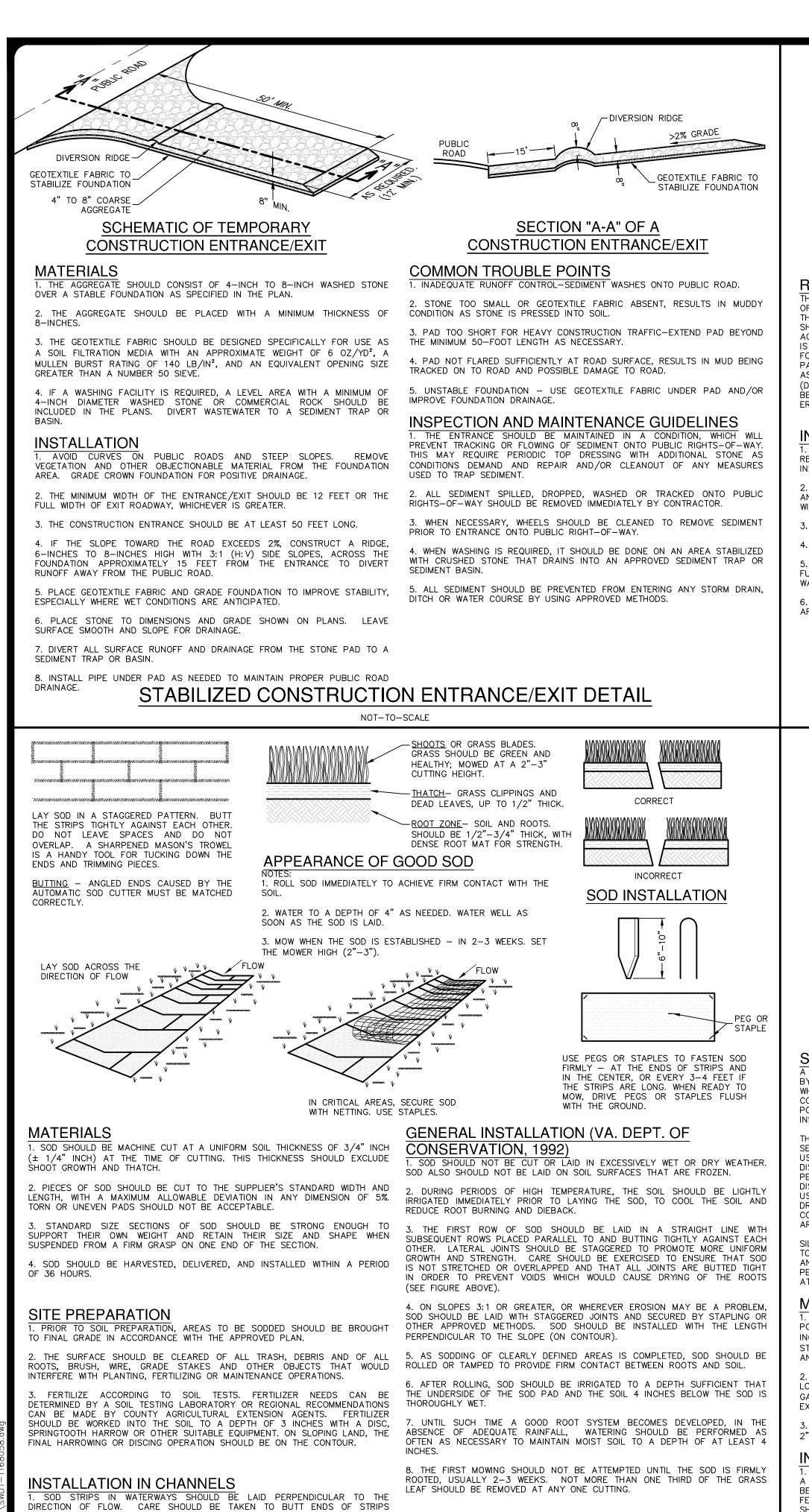




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Feb 10, 2023, 9:00am User ID: C/ 2:\116\80\58\Design\Civil\SWPP-110



NSPECTION AND MAINTENANCE GUIDELINES 2. AFTER ROLLING OR TAMPING, SOD SHOULD BE PEGGED OR STAPLED TO SOD SHOULD BE INSPECTED WEEKLY AND AFTER EACH RAIN EVENT TO RESIST WASHOUT DURING THE ESTABLISHMENT PERIOD. MESH OR OTHER LOCATE AND REPAIR ANY DAMAGE.

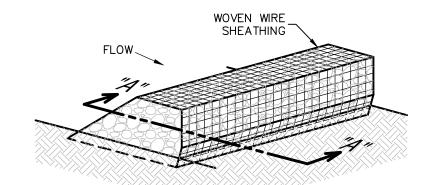
> . DAMAGE FROM STORMS OR NORMAL CONSTRUCTION ACTIVITIES SUCH AS TIRE RUTS OR DISTURBANCE OF SWALE STABILIZATION SHOULD BE REPAIRED AS SOON AS PRACTICAL.

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AREAS.

TIGHTLY (SEE FIGURE ABOVE).

NETTING MAY BE PEGGED OVER THE SOD FOR EXTRA PROTECTION IN CRITICAL



ISOMETRIC PLAN VIEW

ROCK BERMS

THE PURPOSE OF A ROCK BERM IS TO SERVE AS A CHECK DAM IN AREAS OF CONCENTRATED FLOW, TO INTERCEPT SEDIMENT-LADEN RUNOFF, DETAIN THE SEDIMENT AND RELEASE THE WATER IN SHEET FLOW. THE ROCK BERM SHOULD BE USED WHEN THE CONTRIBUTING DRAINAGE AREA IS LESS THAN 5 ACRES. ROCK BERMS ARE USED IN AREAS WHERE THE VOLUME OF RUNOFF IS TOO GREAT FOR A SILT FENCE TO CONTAIN. THEY ARE LESS EFFECTIVE FOR SEDIMENT REMOVAL THAN SILT FENCES, PARTICULARLY FOR FINE PARTICLES, BUT ARE ABLE TO WITHSTAND HIGHER FLOWS THAN A SILT FENCE. AS SUCH, ROCK BERMS ARE OFTEN USED IN AREAS OF CHANNEL FLOWS (DITCHES, GULLIES, ETC.). ROCK BERMS ARE MOST EFFECTIVE AT REDUCING BED LOAD IN CHANNELS AND SHOULD NOT BE SUBSTITUTED FOR OTHER EROSION AND SEDIMENT CONTROL MEASURES FARTHER UP THE WATERSHED.

INSPECTION AND MAINTENANCE GUIDELINES

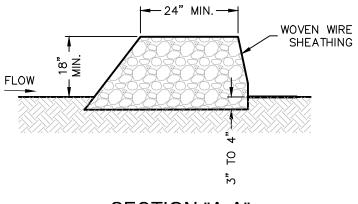
INSPECTION SHOULD BE MADE WEEKLY AND AFTER EACH RAINFALL BY THE RESPONSIBLE PARTY. FOR INSTALLATIONS IN STREAMBEDS, ADDITIONAL DAILY INSPECTIONS SHOULD BE MADE.

. REMOVE SEDIMENT AND OTHER DEBRIS WHEN BUILDUP REACHES 6 INCHES AND DISPOSE OF THE ACCUMULATED SILT IN AN APPROVED MANNER THAT WILL NOT CAUSE ANY ADDITIONAL SILTATION. 3. REPAIR ANY LOOSE WIRE SHEATHING.

4. THE BERM SHOULD BE RESHAPED AS NEEDED DURING INSPECTION

5. THE BERM SHOULD BE REPLACED WHEN THE STRUCTURE CEASES TO FUNCTION AS INTENDED DUE TO SILT ACCUMULATION AMONG THE ROCKS, WASHOUT, CONSTRUCTION TRAFFIC DAMAGE, ETC.

6. THE ROCK BERM SHOULD BE LEFT IN PLACE UNTIL ALL UPSTREAM AREAS ARE STABILIZED AND ACCUMULATED SILT REMOVED.



SECTION "A-A'

MATERIALS

THE BERM STRUCTURE SHOULD BE SECURED WITH A WOVEN WIRE SHEATHING HAVING MAXIMUM OPENING OF 1 INCH AND A MINIMUM WIRE DIAMETER OF 20 GAUGE GALVANIZED AND SHOULD BE SECURED WITH SHOAT RINGS.

2. CLEAN, OPEN GRADED 3-INCH TO 5-INCH DIAMETER ROCK SHOULD BE USED, EXCEPT IN AREAS WHERE HIGH VELOCITIES OR LARGE VOLUMES OF FLOW ARE EXPECTED, WHERE 5-INCH TO 8-INCH DIAMETER ROCKS MAY BE USED.

INSTALLATION

1. LAY OUT THE WOVEN WIRE SHEATHING PERPENDICULAR TO THE FLOW LINE. THE SHEATHING SHOULD BE 20 GAUGE WOVEN WIRE MESH WITH 1 INCH OPENINGS.

2. BERM SHOULD HAVE A TOP WIDTH OF 2 FEET MINIMUM WITH SIDE SLOPES BEING 2:1 (H: V) OR FLATTER.

3. PLACE THE ROCK ALONG THE SHEATHING AS SHOWN IN THE DIAGRAM TO A HEIGHT NOT LESS THAN 18"

4. WRAP THE WIRE SHEATHING AROUND THE ROCK AND SECURE WITH TIE WIRE SO THAT THE ENDS OF THE SHEATHING OVERLAP AT LEAST 2 INCHES, AND THE BERM RETAINS ITS SHAPE WHEN WALKED UPON.

5. BERM SHOULD BE BUILT ALONG THE CONTOUR AT ZERO PERCENT GRADE OR AS NEAR AS POSSIBLE

6. THE ENDS OF THE BERM SHOULD BE TIED INTO EXISTING UPSLOPE GRADE AND THE BERM SHOULD BE BURIED IN A TRENCH APPROXIMATELY 3 TO 4 INCHES DEEP TO PREVENT FAILURE OF THE CONTROL.

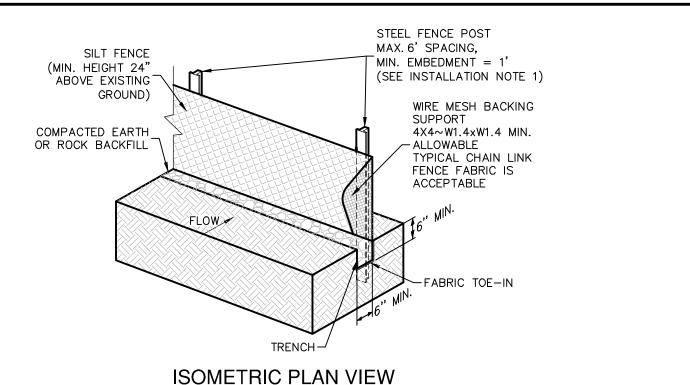
COMMON TROUBLE POINTS

. INSUFFICIENT BERM HEIGHT OR LENGTH (RUNOFF QUICKLY ESCAPES OVER THE TOP OR AROUND THE SIDES OF BERM).

2. BERM NOT INSTALLED PERPENDICULAR TO FLOW LINE (RUNOFF ESCAPING AROUND ONE SIDE).

ROCK BERM DETAIL

NOT-TO-SCALE



SILT FENCE

A SILT FENCE IS A BARRIER CONSISTING OF GEOTEXTILE FABRIC SUPPORTED BY METAL POSTS TO PREVENT SOIL AND SEDIMENT LOSS FROM A SITE. WHEN PROPERLY USED, SILT FENCES CAN BE HIGHLY EFFECTIVE AT CONTROLLING SEDIMENT FROM DISTURBED AREAS. THEY CAUSE RUNOFF TO POND, ALLOWING HEAVIER SOLIDS TO SETTLE OUT. IF NOT PROPERLY INSTALLED, SILT FENCES ARE NOT LIKELY TO BE EFFECTIVE.

THE PURPOSE OF A SILT FENCE IS TO INTERCEPT AND DETAIN WATER-BORN SEDIMENT FROM UNPROTECTED AREAS OF A LIMITED EXTENT. SILT FENCE IS USED DURING THE PERIOD OF CONSTRUCTION NEAR THE PERIMETER OF A DISTURBED AREA TO INTERCEPT SEDIMENT WHILE ALLOWING WATER TO PERCOLATE THROUGH. THIS FENCE SHOULD REMAIN IN PLACE UNTIL THE DISTURBED AREA IS PERMANENTLY STABILIZED. SILT FENCE SHOULD NOT BE USED WHERE THERE IS A CONCENTRATION OF WATER IN A CHANNEL OF DRAINAGE WAY. IF CONCENTRATED FLOW OCCURS AFTER INSTALLATION, CORRECTIVE ACTION MUST BE TAKEN SUCH AS PLACING A ROCK BERM IN THE AREAS OF CONCENTRATED FLOW.

SILT FENCING WITHIN THE SITE MAY BE TEMPORARILY MOVED DURING THE DAY TO ALLOW CONSTRUCTION ACTIVITY PROVIDED IT IS REPLACED AND PROPERLY ANCHORED TO THE GROUND AT THE END OF THE DAY. SILT FENCES ON THE PERIMETER OF THE SITE OR AROUND DRAINAGE WAYS SHOULD NOT BE MOVED AT ANY TIME.

MATERIALS

. SILT FENCE MATERIAL SHOULD BE POLYPROPYLENE, POLYETHYLENE, OR POLYAMIDE WOVEN OR NONWOVEN FABRIC. THE FABRIC SHOULD BE 36 INCHES, WITH A MINIMUM UNIT WEIGHT OF 4.5 OZ/YD, MULLEN BURST STRENGTH EXCEEDING 190 LB/IN2, ULTRAVIOLET STABILITY EXCEEDING 70%, AND MINIMUM APPARENT OPENING SIZE OF U.S. SIEVE NUMBER 30.

FENCE POSTS SHOULD BE MADE OF HOT ROLLED STEEL, AT LEAST 4 FEET LONG WITH TEE OR Y-BAR CROSS SECTION, SURFACE PAINTED OR GALVANIZED, MINIMUM WEIGHT 1.25 LB/FT, AND BRINDELL HARDNESS EXCEEDING 140.

3. WOVEN WIRE BACKING TO SUPPORT THE FABRIC SHOULD BE GALVANIZED 2" X 4" WELDED WIRE, 12 GAUGE MINIMUM.

INSTALLATION

1. STEEL POSTS, WHICH SUPPORT THE SILT FENCE, SHOULD BE INSTALLED ON A SLIGHT ANGLE TOWARD THE ANTICIPATED RUNOFF SOURCE. POSTS MUST BE EMBEDDED A MINIMUM OF 1-FOOT DEEP AND SPACED NOT MORE THAN 8 FEET ON CENTER. WHERE WATER CONCENTRATES, THE MAXIMUM SPACING SHOULD BE 6 FEET.

. LAY OUT FENCING DOWN-SLOPE OF DISTURBED AREA, FOLLOWING THE CONTOUR AS CLOSELY AS POSSIBLE. THE FENCE SHOULD BE SITED SO THAT THE MAXIMUM DRAINAGE AREA IS 1/4 ACRE/100 FEET OF FENCE.

3. THE TOE OF THE SILT FENCE SHOULD BE TRENCHED IN WITH A SPADE OR MECHANICAL TRENCHER, SO THAT THE DOWN-SLOPE FACE OF THE TRENCH IS FLAT AND PERPENDICULAR TO THE LINE OF FLOW. WHERE FENCE CANNOT BE TRENCHED IN (E.G., PAVEMENT OR ROCK OUTCROP). WEIGHT FABRIC FLAP WITH 3 INCHES OF PEA GRAVEL ON UPHILL SIDE TO PREVENT FLOW FROM SEEPING UNDER FENCE.

4. THE TRENCH MUST BE A MINIMUM OF 6 INCHES DEEP AND 6 INCHES WIDE TO ALLOW FOR THE SILT FENCE FABRIC TO BE LAID IN THE GROUND AND BACKFILLED WITH COMPACTED MATERIAL.

5. SILT FENCE SHOULD BE SECURELY FASTENED TO EACH STEEL SUPPORT POST OR TO WOVEN WIRE, WHICH IS IN TURN ATTACHED TO THE STEEL FENCE POST. THERE SHOULD BE A 3-FOOT OVERLAP, SECURELY FASTENED WHERE ENDS OF FABRIC MEET.

6. SILT FENCE SHOULD BE REMOVED WHEN THE SITE IS COMPLETELY STABILIZED SO AS NOT TO BLOCK OR IMPEDE STORM FLOW OR DRAINAGE.

COMMON TROUBLE POINTS

FENCE NOT INSTALLED ALONG THE CONTOUR CAUSING WATER TO CONCENTRATE AND FLOW OVER THE FENCE.

2. FABRIC NOT SEATED SECURELY TO GROUND (RUNOFF PASSING UNDER FENCE).

3. FENCE NOT INSTALLED PERPENDICULAR TO FLOW LINE (RUNOFF ESCAPING AROUND SIDES)

4. FENCE TREATING TOO LARGE AN AREA, OR EXCESSIVE CHANNEL FLOW (RUNOFF OVERTOPS OR COLLAPSES FENCE).

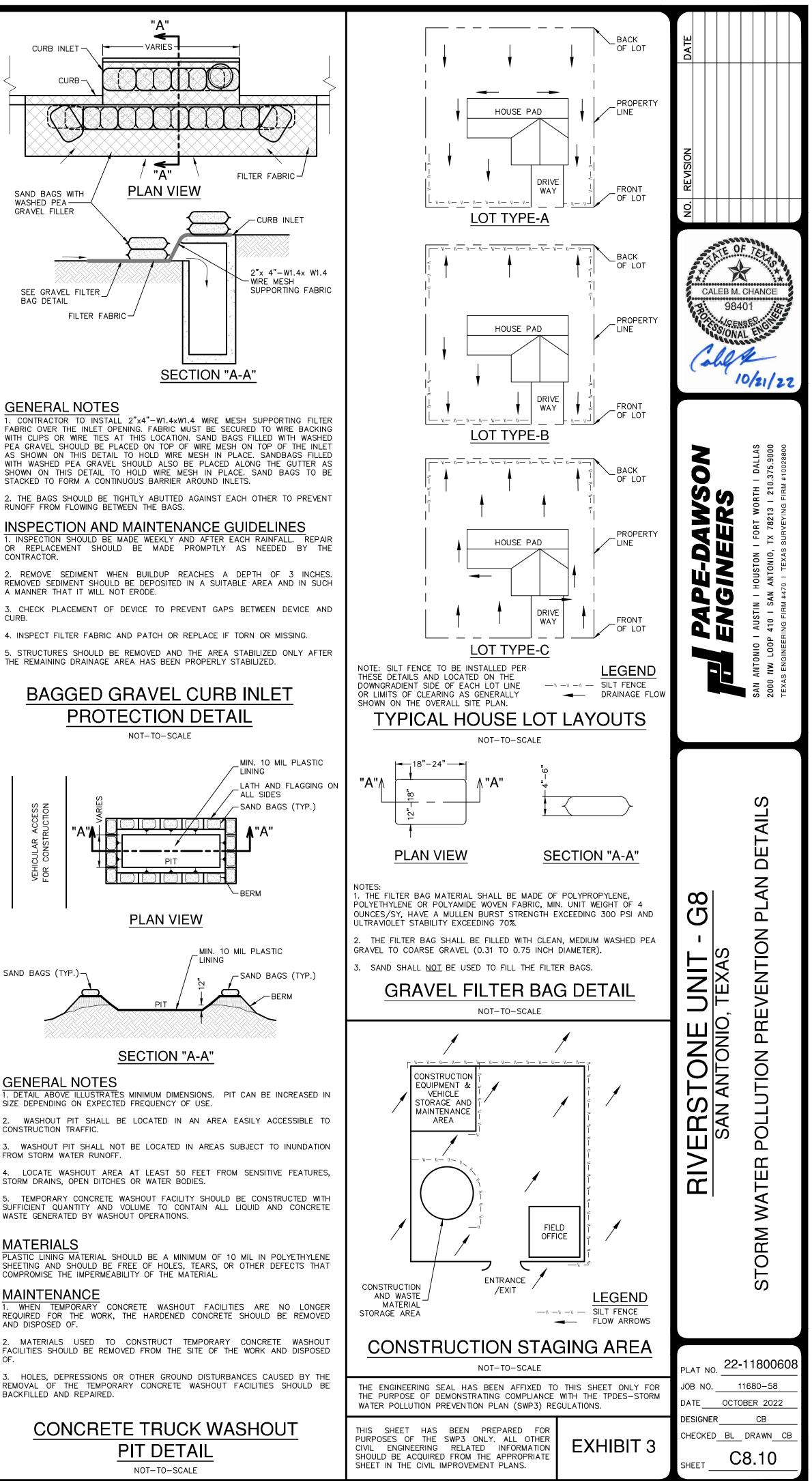
INSPECTION AND MAINTENANCE GUIDELINES

1. INSPECT ALL FENCING WEEKLY, AND AFTER RAINFALL 2. REMOVE SEDIMENT WHEN BUILDUP REACHES 6 INCHES.

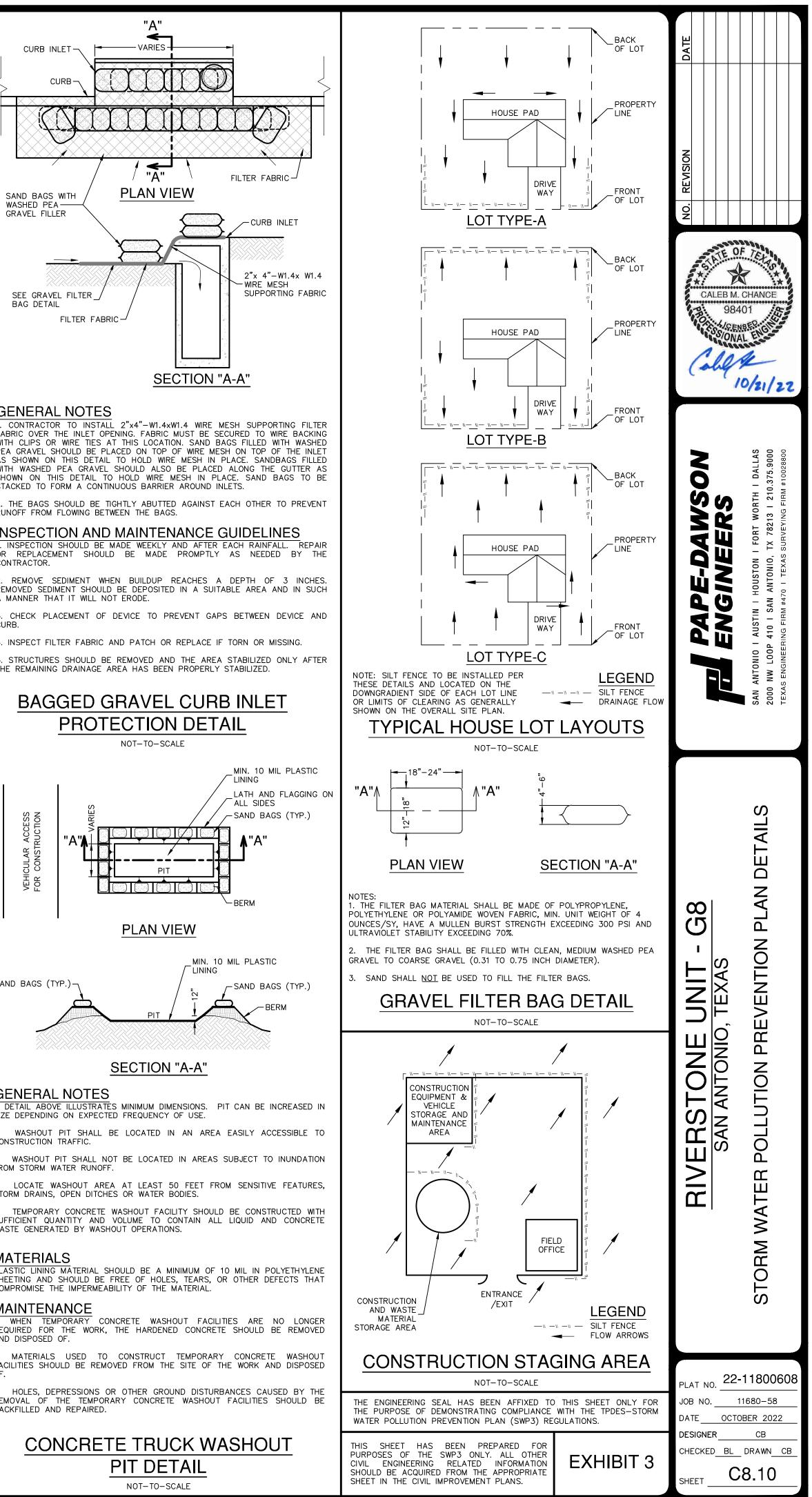
3. REPLACE TORN FABRIC OR INSTALL A SECOND LINE OF FENCING PARALLEL TO THE TORN SECTION.

4. REPLACE OR REPAIR SECTIONS CRUSHED OR COLLAPSED IN THE COURSE OF CONSTRUCTION ACTIVITY. IF A SECTION OF FENCE IS OBSTRUCTING VEHICULAR ACCESS, CONSIDER RELOCATING IT TO A SPOT WHERE IT WILL PROVIDE EQUAL PROTECTION, BUT WILL NOT OBSTRUCT VEHICLES. A TRIANGULAR FILTER DIKE MAY BE PREFERABLE TO A SILT FENCE AT COMMON VEHICLE ACCESS POINTS.

WHEN CONSTRUCTION IS COMPLETE, THE SEDIMENT SHOULD BE DISPOSED OF IN A MANNER THAT WILL NOT CAUSE ADDITIONAL SILTATION AND THE PRIOR LOCATION OF THE SILT FENCE SHOULD BE REVEGETATED. THE FENCE ITSELF SHOULD BE DISPOSED OF IN AN APPROVED LANDFILL.



CURB.



SAND BAGS (TYP.)

FROM STORM WATER RUNOFF.

MATERIALS

MAINTENANCE

AND DISPOSED OF.

BACKFILLED AND REPAIRED.

SILT FENCE DETAIL

NOT-TO-SCALE