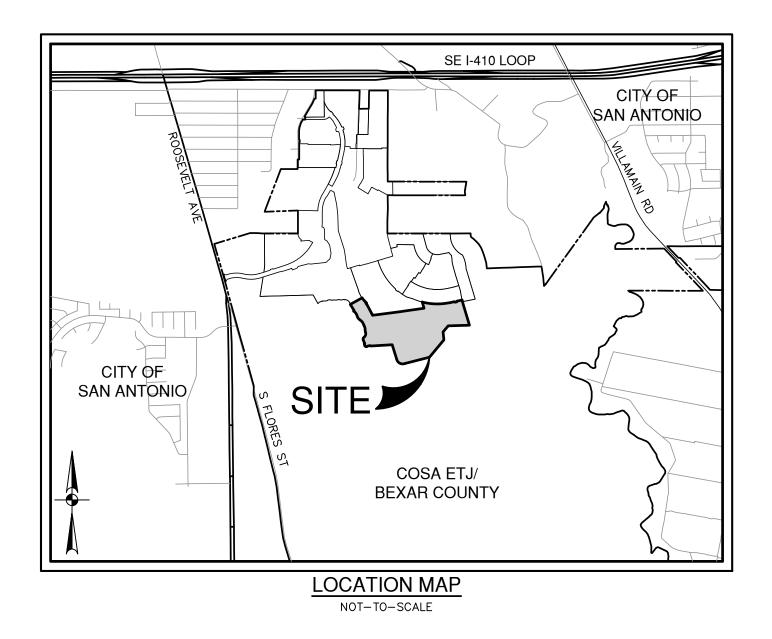
ESPADA TRACT UNIT 16 & 19 SAN ANTONIO, TEXAS **CIVIL CONSTRUCTION PLANS**

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PREPARED FOR:

LENNAR HOMES OF TEXAS 100 NE LOOP 410, STE. 1155 SAN ANTONIO TX, 78216

MARCH 2025



TEXAS ENGINEERING FIRM #470 I TEXAS SURVEYING FIRM #10028800



WATER (SAWS PRESSURE ZONE 750)

DEVELOPER'S NAME: LENNA ADDRESS: 100 NE LOOP CITY: SAN ANTONIO PHONE# (210) 403-6200 SAWS BLOCK MAP# 17053 TOTAL LINEAR FOOTAGE OF NUMBER OF LOTS 290

Sheet Number	Sheet Title
0.00	COVER SHEET
C1.00	MASTER DRAINAGE PLAN (ULTIMATE DEVELOPMENT CONDITIONS)
C1.01	DRAIN L PLAN & PROFILE (STA 1+62.39 TO END)
C1.02	DRAIN M1 PLAN & PROFILE (STA 1+46.00 TO 3+00.00)
C1.03	DRAIN M2 PLAN & PROFILE (STA 1+50.00 TO 2+95.94)
C1.04	DRAIN N1 PLAN & PROFILE (STA 1+50.00 TO 2+83.67)
C1.05	DRAIN N2 PLAN & PROFILE (STA 1+50.00 TO 2+73.93)
C1.06	DRAIN O1 PLAN & PROFILE (STA 1+45.96 TO END)
C1.07	DRAIN O2 PLAN & PROFILE (STA 1+21.50 TO END)
C1.08	DRAINAGE DETAILS
C1.09	DRAINAGE DETAILS
22.00	SOCORRO RIDGE PLAN & PROFILE (STA 1+45.00 TO END)
C2.01	PURISIMA CREEK PLAN & PROFILE (STA 3+72.97 TO END)
22.02	RAFAEL RIDGE PLAN & PROFILE (STA 1+02.65 TO 11+00.00)
C2.03	RAFAEL RIDGE PLAN & PROFILE (STA 11+00.00 TO END)
C2.04	JEMEZ MANOR PLAN & PROFILE (STA 1+50.00 TO 9+50.00)
C2.05	JEMEZ MANOR PLAN & PROFILE (STA 9+50.00 TO END)
C2.06	DIAZ TRAILS PLAN & PROFILE (STA 1+15.00 TO END)
C2.07	SANTISIMO CREEK PLAN & PROFILE (STA 1+16.73 TO 7+50.00)
C2.08	SANTISIMO CREEK PLAN & PROFILE (STA 7+50.00 TO END)
C2.09	SANDIA COVE PLAN & PROFILE (STA 1+15.00 TO END)
C2.10	ROSALIA TRAIL PLAN & PROFILE (STA 1+15.00 TO END)
C2.11	TUMACACORI WAY PLAN & PROFILE (STA 1+15.51 TO 7+50.00)
C2.12	TUMACACORI WAY PLAN & PROFILE (STA 7+50.00 TO END)
C2.13	TYPICAL STREET DETAILS
C2.14	TYPICAL STREET DETAILS
C2.15	TYPICAL STREET DETAILS
23.00	OVERALL SIGNAGE PLAN
23.01	OVERALL SIGNAGE PLAN
03.02	
03.03	TXDOT SIGN MOUNTING DETAILS
03.04	
03.05	TXDOT SIGN MOUNTING DETAILS
24.00	OVERALL WATER DISTRIBUTION PLAN
24.01	OVERALL WATER DISTRIBUTION PLAN
04.02	OVERALL WATER DISTRIBUTION PLAN
24.03	OVERALL WATER DISTRIBUTION DETAILS
24.04	OVERALL WATER DISTRIBUTION NOTES
25.00	OVERALL SANITARY SEWER PLAN
25.01	OVERALL SANITARY SEWER PLAN
25.02	OVERALL SANITARY SEWER PLAN
25.03	SS LINE HH PLAN & PROFILE (STA 1+00.00 TO STA 11+50.00)
25.04	SS LINE HH PLAN & PROFILE (STA 12+00.00 TO STA 21+00.00)
25.05	SS LINE HH PLAN & PROFILE (STA 21+00.00 TO STA 26+50.00)
25.06	SS LINE MM PLAN & PROFILE (STA 1+00.00 TO END)
25.07	SS LINE NN PLAN & PROFILE (STA 1+00.00 TO END)
25.08	SS LINE OO PLAN & PROFILE (STA 1+00.00 TO END)
25.09	SS LINE PP PLAN & PROFILE (STA 1+00.00 TO END)
05.10	SS LINE QQ PLAN & PROFILE (STA 1+00.00 TO 7+00.00)
05.11	SS LINE QQ PLAN & PROFILE (STA 7+00.00 TO END)
05.12	SS LINE SS PLAN & PROFILE (STA 1+00.00 TO END)
25.13	OVERALL SANITARY SEWER DETAILS
25.14	OVERALL SANITARY SEWER NOTES
26.00	OVERALL UTILITY PLAN
26.01	OVERALL UTILITY PLAN
26.02	OVERALL UTILITY PLAN
27.00	OVERALL GRADING PLAN
27.01	OVERALL GRADING PLAN
27.02	OVERALL GRADING PLAN
27.03	OVERALL GRADING PLAN
0.80	STORM WATER POLLUTION PREVENTION PLAN
C8.01	STORM WATER POLLUTION PREVENTION PLAN
08.02	STORM WATER POLLUTION PREVENTION PLAN
08.03	STORM WATER POLLUTION PREVENTION PLAN
08.04	STORM WATER POLLUTION PREVENTION PLAN - NOT USED
08.05	STORM WATER POLLUTION PREVENTION PLAN - NOT USED
28.06	STORM WATER POLLUTION PREVENTION DETAILS
08.07	STORM WATER POLLUTION PREVENTION DETAILS
28.08	STORM WATER POLLUTION PREVENTION DETAILS
09.00	DETENTION BASIN F

Sheet List Table

Sheet Number Sheet Title

AR HOMES OF TEXAS 410. STE. 1155 STATE: TEXAS STATE: TEXAS <				
410. STE. 1155 STATE: TEXAS ZIP: 78216 FAX# N/A 6_TOTAL EDU'S 299 TOTAL ACREAGE 59.95 6021.66 LF.~8"PVC PLAT NO.24–11800063				
STATE: TEXAS ZIP: 78216 FAX# N/A 6_TOTAL EDU'S 299 TOTAL ACREAGE 59.95 6021.66 LF.~8"PVC PIPE: 699.07 LF.~2"PVC PLAT NO.24–11800063	AR HOMES OF	TEXAS		
FAX# <u>N/A</u> 6_TOTAL EDU'S <u>299</u> TOTAL ACREAGE <u>59.95</u> 6021.66 LF.~8"PVC PIPE: <u>699.07 LF.~2"PVC</u> PLAT NO. <u>24–11800063</u>	410, STE. 11	55		
6_TOTAL EDU'S_299_TOTAL ACREAGE 59.95 6021.66 L.F.~8"PVC PIPE: 699.07 L.F.~2"PVCPLAT NO.24-11800063	STATE:	TEXAS	ZIP:	78216
6021.66 L.F.~8"PVC PIPE: <u>699.07 L.F.~2"PVC</u> PLAT NO. <u>24-11800063</u>		FAX#N/	Ά	
	6_TOTAL_EDU	с <u>299</u> то	TAL ACR	EAGE <u>59.95</u>
SAWS JOB NO. <u>24-1129</u>	PIPE: <u>699.07 L.</u>	.r.~8 PVC F.~2"PVC	PLAT NO	. <u>24–11800063</u>
	SAWS	JOB NO24	4—1129	

SALADO CREEK - SAN ANTONIO RIVER WATERSHED - DOS RIOS W.C DEVELOPER'S NAME: LENNAR HOMES OF TEXAS ADDRESS: 100 NE LOOP 410, STE. 1155 CITY:<u>SAN ANTONIO</u>STATE:<u>TEXAS</u>ZIP:<u>78216</u> PHONE# <u>(210) 403–6200</u> FAX# <u>N/A</u> SAWS BLOCK MAP# 172534 TOTAL EDU'S 290 TOTAL ACREAGE 59.9 TOTAL LINEAR FOOTAGE OF PIPE: 4323.00 LF.~8"PVC PLAT NO.24-1180006 NUMBER OF LOTS 290 SAWS JOB NO. 24-1599

DETENTION BASIN F DETAILS

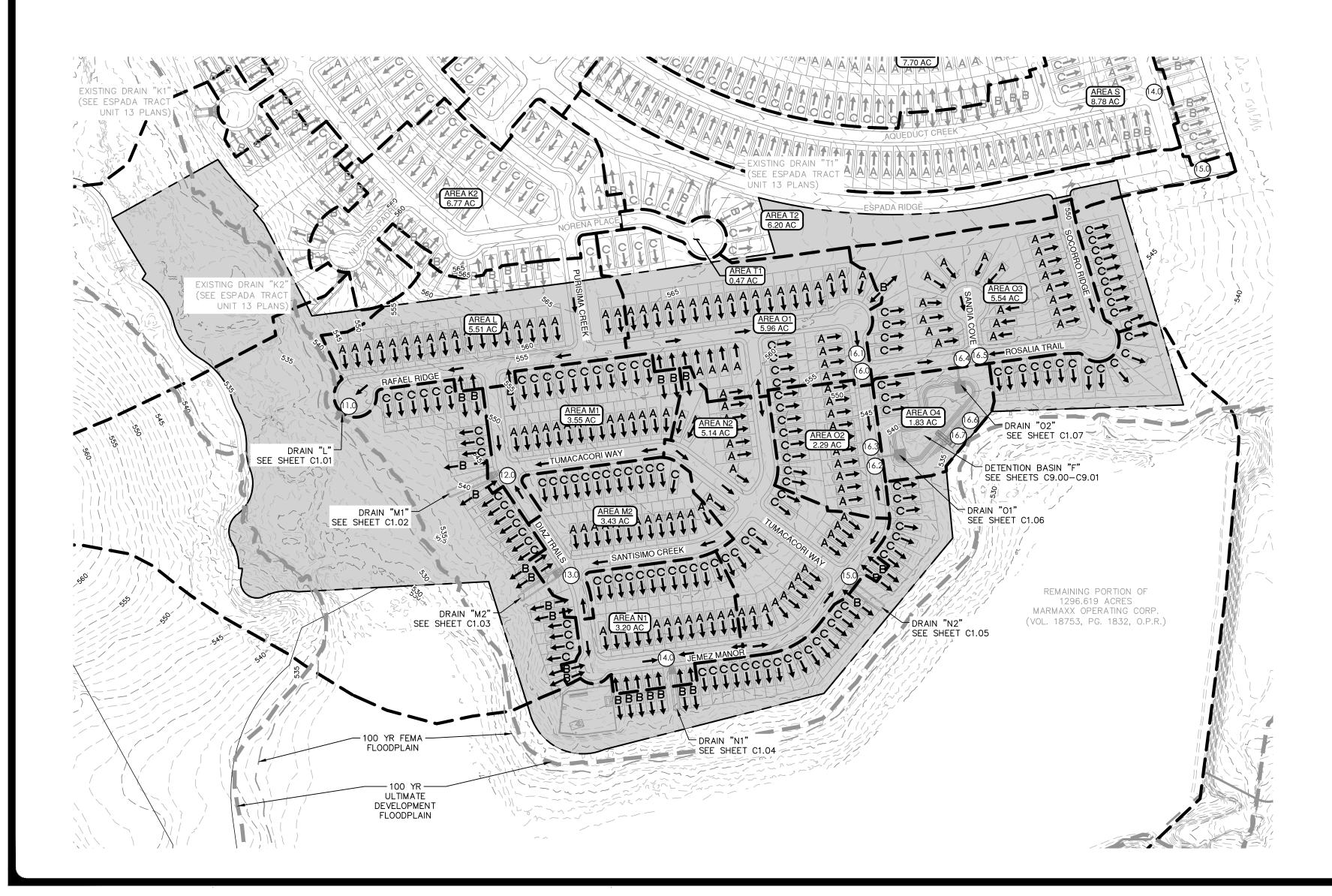
C9.00

C9 0

Q 632-20 Ž JOB \square

SHEET C0.00

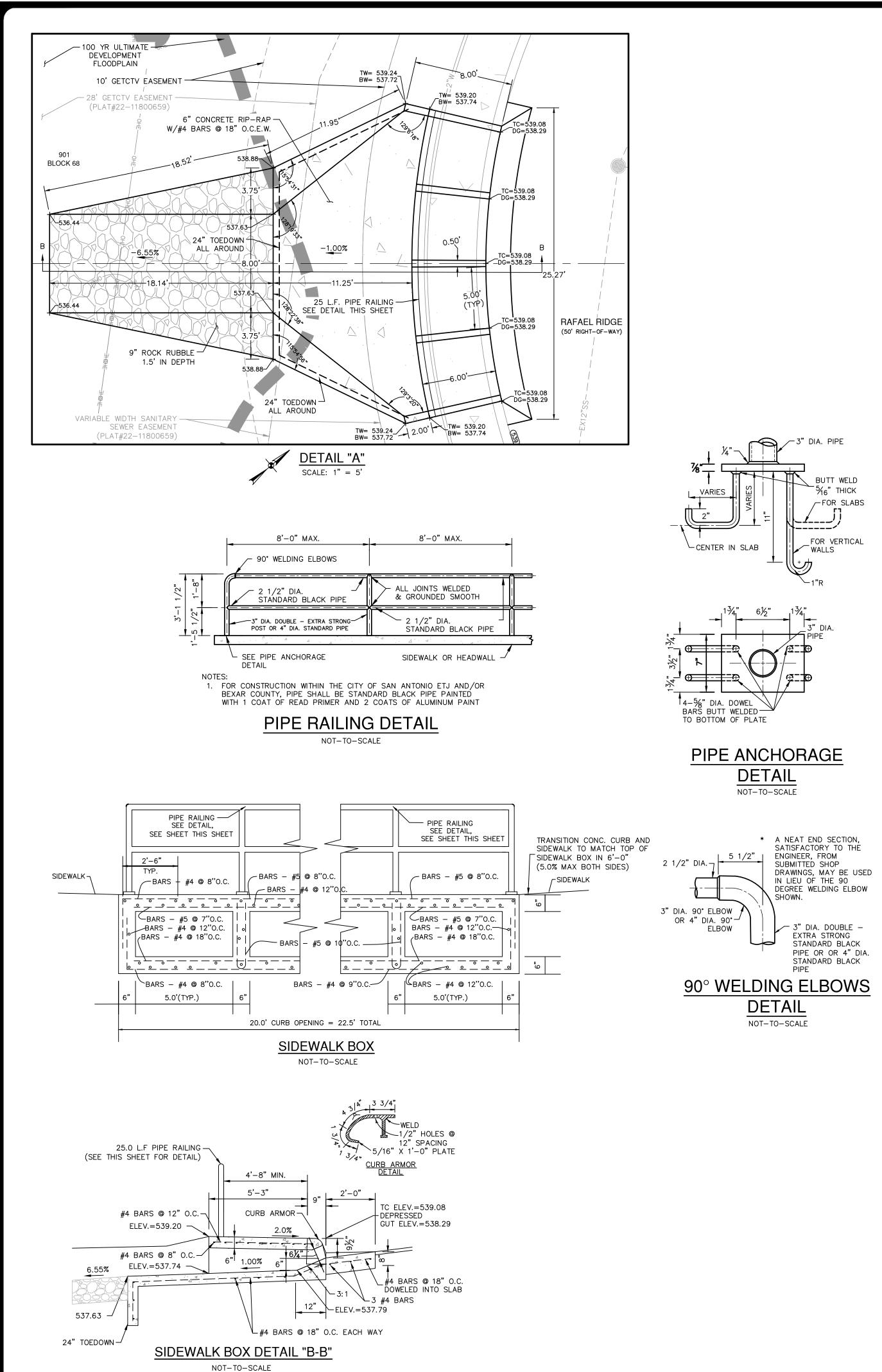
					\sim		rland/S		evelop Sholl		oncent	rotod [low					Detion	nal Method	0-014
		Drainage A	reas		h (ft		w (Seel		Shall		oncenu 1**	rated r	-IOW -	Channe	lized I	Flow**		IDF Curv		
Ref. Point	Structure / Description	#	Area (Ac)	с	Total Flowpath (ft)	L ₀ (FT)	S ₀ (ft/ft)	⊤ _o * (MIN)	L _{SC} (FT)	Condition ***	Slope (ft/ft)	V _{SC} (FPS)	T _{SC} ** (MIN)	L _{CH} (FT)	V _{CH} (FPS)	T _{CH} ** (MIN)	Тс-тот	Return Year	Intensity (in/hr)	Q (cfs)
11.0	Drain L	L	5.51	0.77	895	100	0.02	13	150	U	0.03	2.8	0.9	645	6.0	1.8	15 15 15	5 25 100	5.24 7.24 9.03	22.2 30.7 38.3
12.0	Drain M1	M1	3.55	0.77	610	100	0.01	15	160	U	0.02	2.3	1.2	350	6.0	1.0	17 17 17	5 25 100	4.91 6.76 8.42	13.4 18.5 23.0
13.0	Drain M2	M2	3.43	0.77	530	100	0.03	11	150	U	0.03	2.8	0.9	280	6.0	0.8	12 12 12	5 25 100	5.81 8.12 10.14	15.3 21.4 26.8
14.0	Drain N1	N1	3.20	0.77	490	100	0.03	11	170	U	0.05	3.6	0.8	220	6.0	0.6	12 12 12	5 25 100	5.81 8.12 10.14	14.3 20.0 25.0
15.0	Drain N2	N2	5.14	0.77	895	100	0.01	15	190	U	0.02	2.3	1.4	605	6.0	1.7	18 18 18	5 25 100	4.76 6.56 8.16	18.8 26.0 32.3
16.0	Calculation Point	01	5.96	0.77	1,064	100	0.02	13	214	U	0.01	1.6	2.2	750	6.0	2.1	17 17 17	5 25 100	4.91 6.76 8.42	22.5 31.0 38.6
16.1	Calculation Point	01	5.96	0.77		(Reference Accumulated Flow Rate Table)							0 0 0	5 25 100	-	12.9 15.9 18.3				
16.2	Calculation Point	O2	2.29	0.77	435	100	0.04	11	145	U	0.04	3.2	0.7	190	6.0	0.5	12 12 12	5 25 100	5.81 8.12 10.14	10.2 14.3 17.9
16.3	Drain O1	01+02	8.25	0.77		(Reference Accumulated Flow Rate Table)							0 0 0	5 25 100	-	19.8 29.4 38.2				
16.4	Calculation Point	C3	5.54	0.77	380	100	0.03	11	155	U	0.03	2.8	0.9	125	6.0	0.3	12 12 12	5 25 100	5.81 8.12 10.14	24.8 34.6 43.3
16.5	Drain O2	01+03	11.50	0.77		(Reference Accumulated Flow Rate Table)							0 0 0	5 25 100	-	37.7 50.5 61.6				
16.6	Calculation Point	O4	1.83	0.77	940	100	0.02	13	20	U	0.01	1.6	0.2	820	6.0	2.3	15 15 15	5 25 100	5.24 7.24 9.03	7.4 10.2 12.7
16.7	Basin F	01+02+03+04	15.62	0.77	940	100	0.02 $7(n*L)^{0.8}$ $5*S^{.4}$	13	20	U	0.01	1.6	0.2	820	6.0	2.3	15 15 15	5 25 100	5.24 7.24 9.03 from Manni	63.0 87.1 108.6



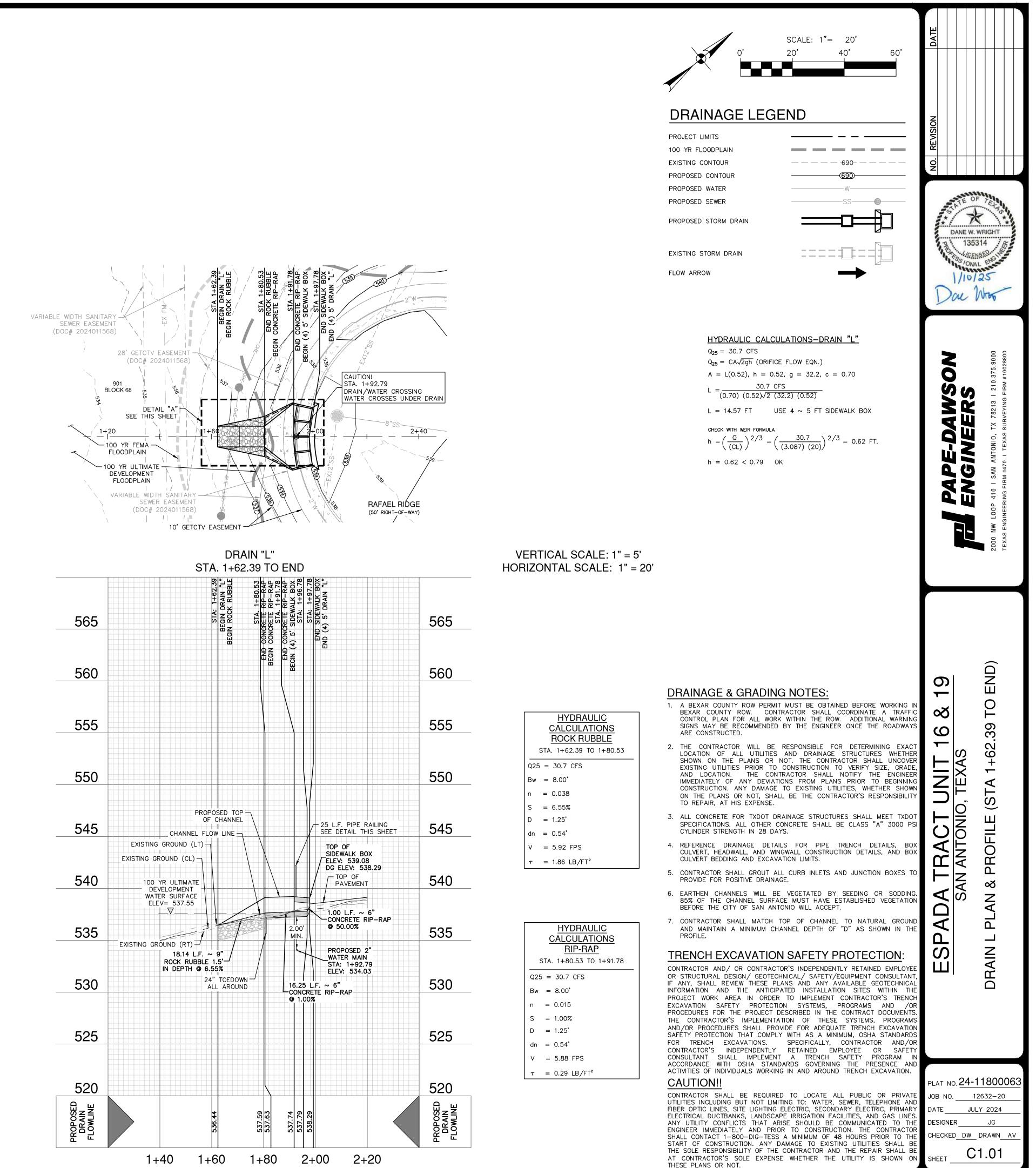
		Contributing Flow								Reference Sub-point						
Ref.			Upstrean	n Watershed	Upstream S	urface Bypass	Upstream	Pipe Flow	т	С	В	Р				
Point D	Desc.	Return Year	#	Q _{WATERSHED} (cfs)	Surf Byp. Upstream Ref. Point	Q _{SURF-UP} (cfs)	Pipe Upstream Ref. Point	Q _{PIPE-UP} (cfs)	Q _{INLET-TOTAL} (cfs)	Q _{CAPTURED} (cfs)	Q _{BYPASS} (cfs)	Q _{PIPE} (cfs)				
16.1 STREET	5		22.5		0.0		0.0	22.5	12.9	9.6	12.9					
		25	16.0	31.0	N/A	0.0	N/A	0.0	31.0	15.9	15.1	15.9				
	INTERSECTION	100		38.6		0.0		0.0	38.6	18.3	20.3	18.3				
		5		10.2	16.1	9.6		0.0	19.8	19.8	-	19.8				
16.3	DRAIN 01	25	16.2	14.3		15.1	N/A	0.0	29.4	29.4	-	29.4				
	100		17.9		20.3		0.0	38.2	38.2	-	38.2					
	5		24.8		12.9		0.0	37.7	37.7	-	37.7					
16.5	DRAIN O2	25	16.4	34.6	16.1	15.9	N/A	0.0	50.5	50.5	-	50.8				
		100		43.3	1	18.3		0.0	61.6	61.6	-	61.0				

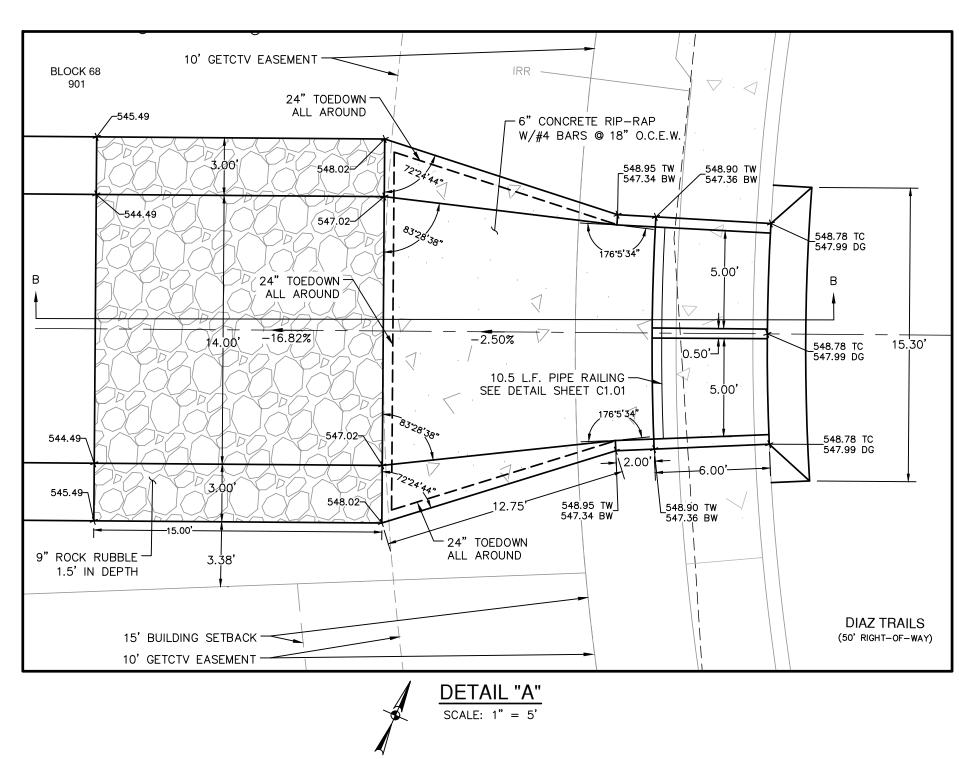
Accumlated Flow Rates

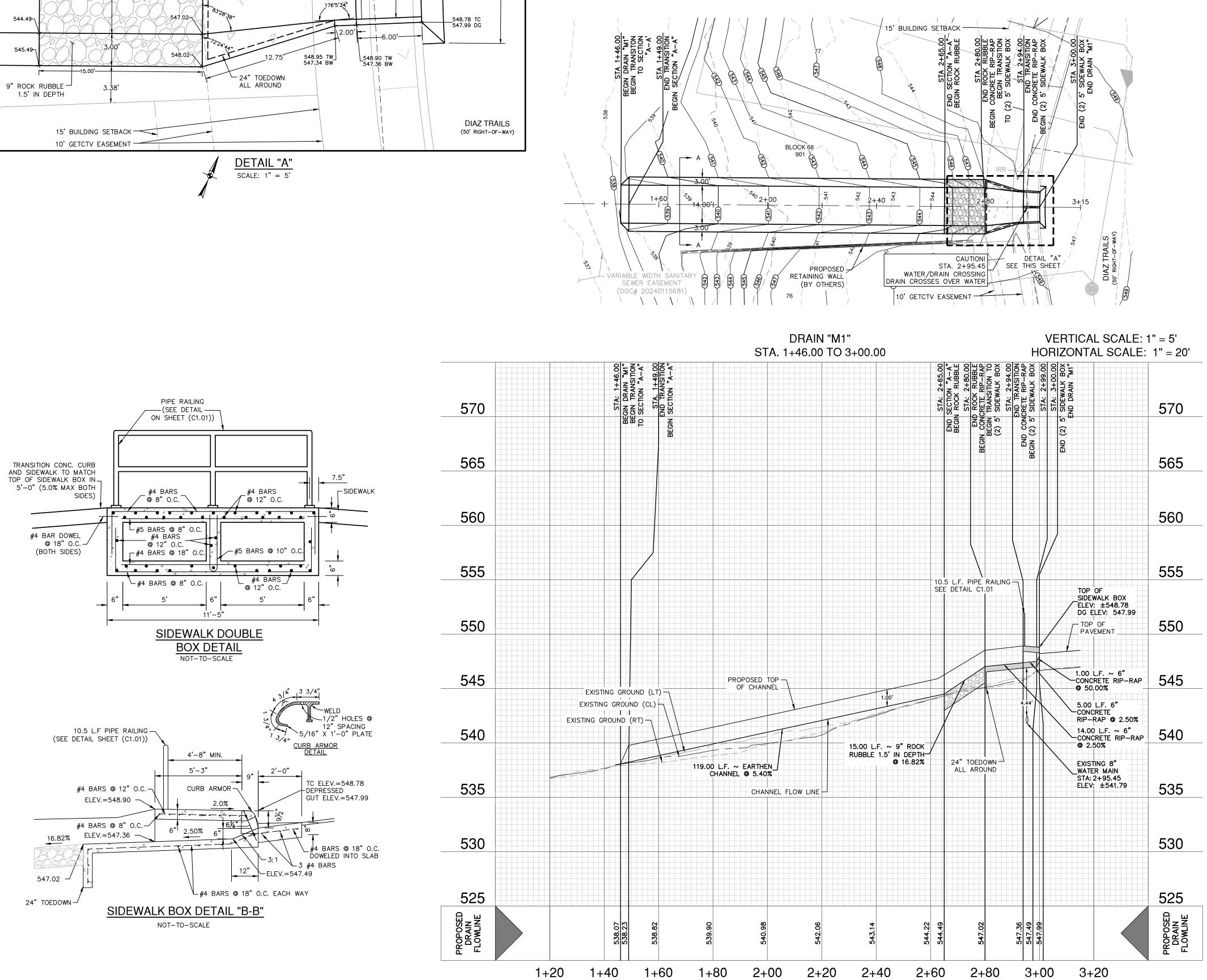
SE I-410 LOOP CITY OF SAN ANTONIO	DATE
CITY OF SAN ANTONIO	NO NO NO NO NO NO NO NO NO NO NO NO NO N
PROJECT LIMITS EXISTING CONTOUR 100 YR UD FLOODPLAIN 100 YR FEMA FLOODPLAIN 100 YR FEMA FLOODPLAIN RUNOFF FLOW PATH DRAINAGE AREA BOUNDARY FHA LOT GRADING TYPE PROPOSED DIRECTION OF FLOW DRAINAGE CALCULATION POINT DRAINAGE AREA	THE FORTER AND
	ESPADA TRACT UNIT 16 & 19 SAN ANTONIO, TEXAS MASTER DRAINAGE PLAN (ULTIMATE DEVELOPMENT CONDITIONS)
	PLAT NO. 24-11800063 JOB NO. 12632-20 DATE MARCH 2025 DESIGNER JG CHECKED DW DRAWN AV SHEET C1.00



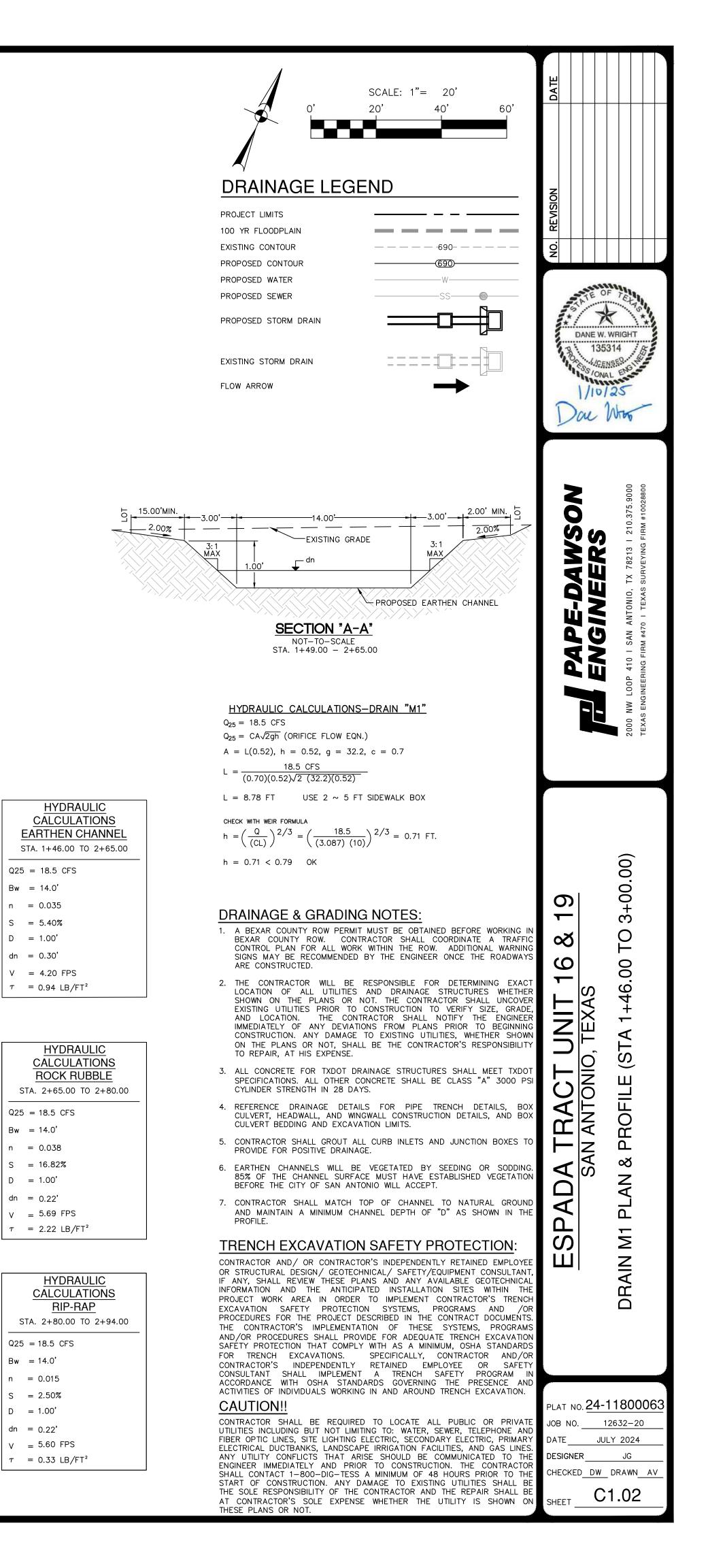
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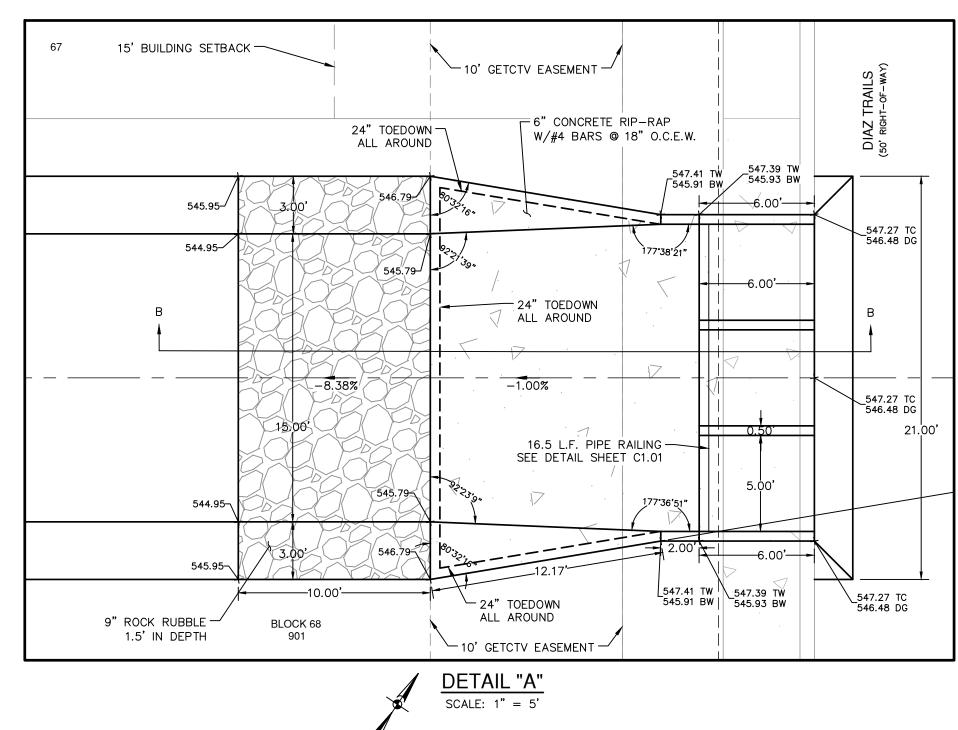




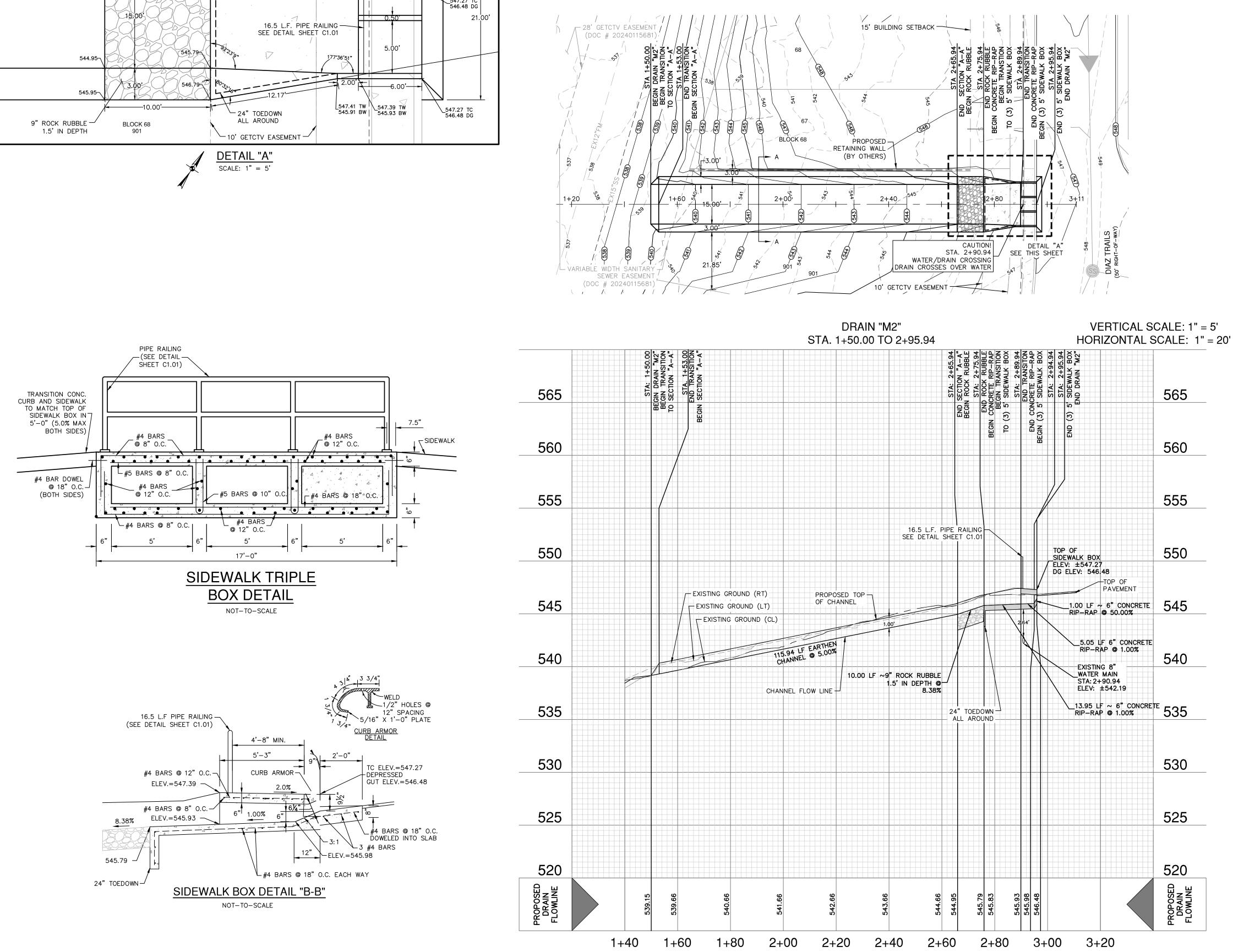


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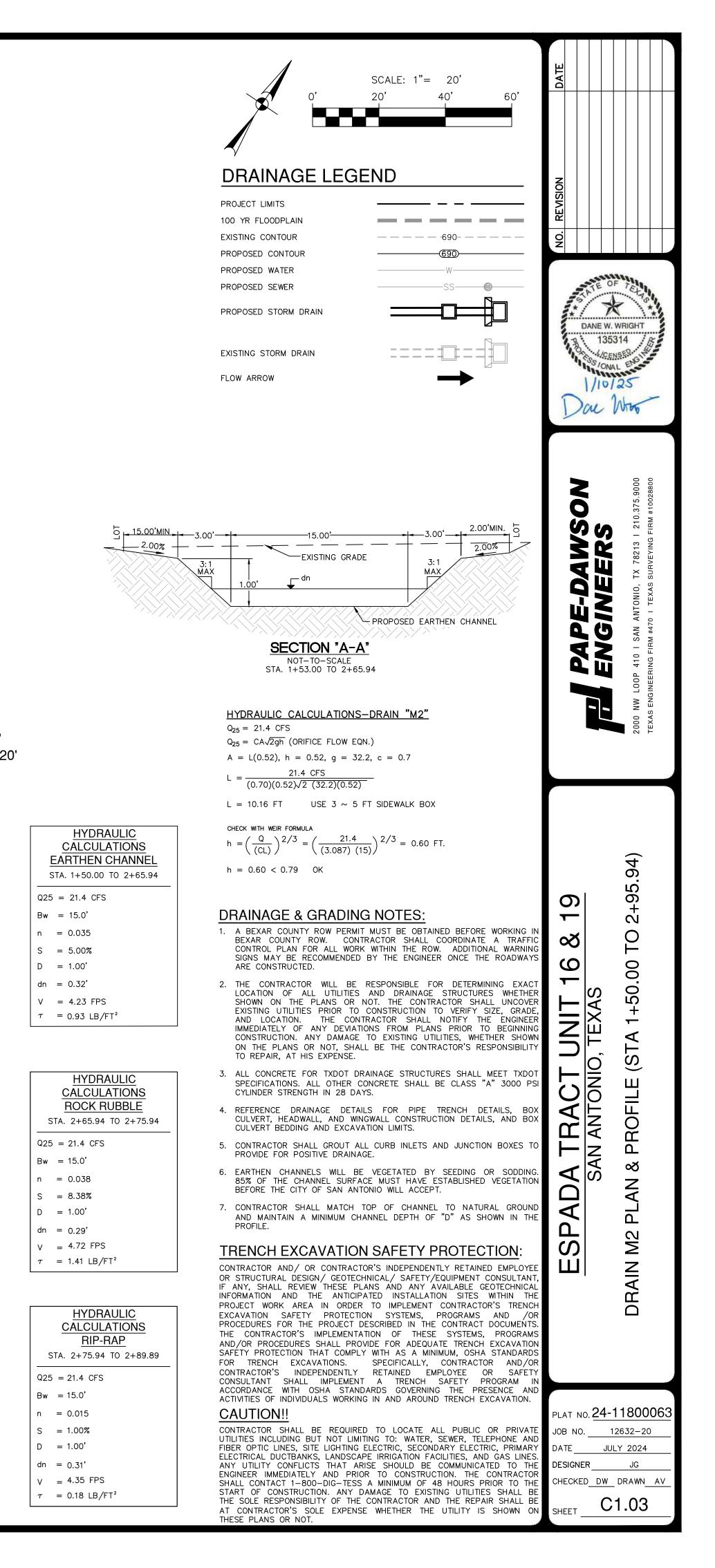


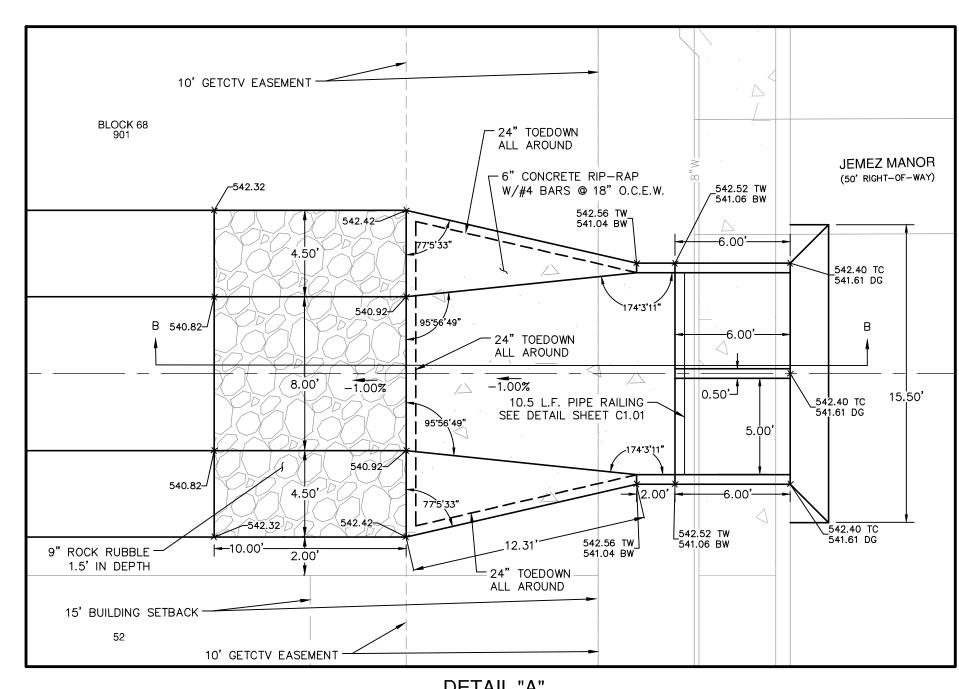


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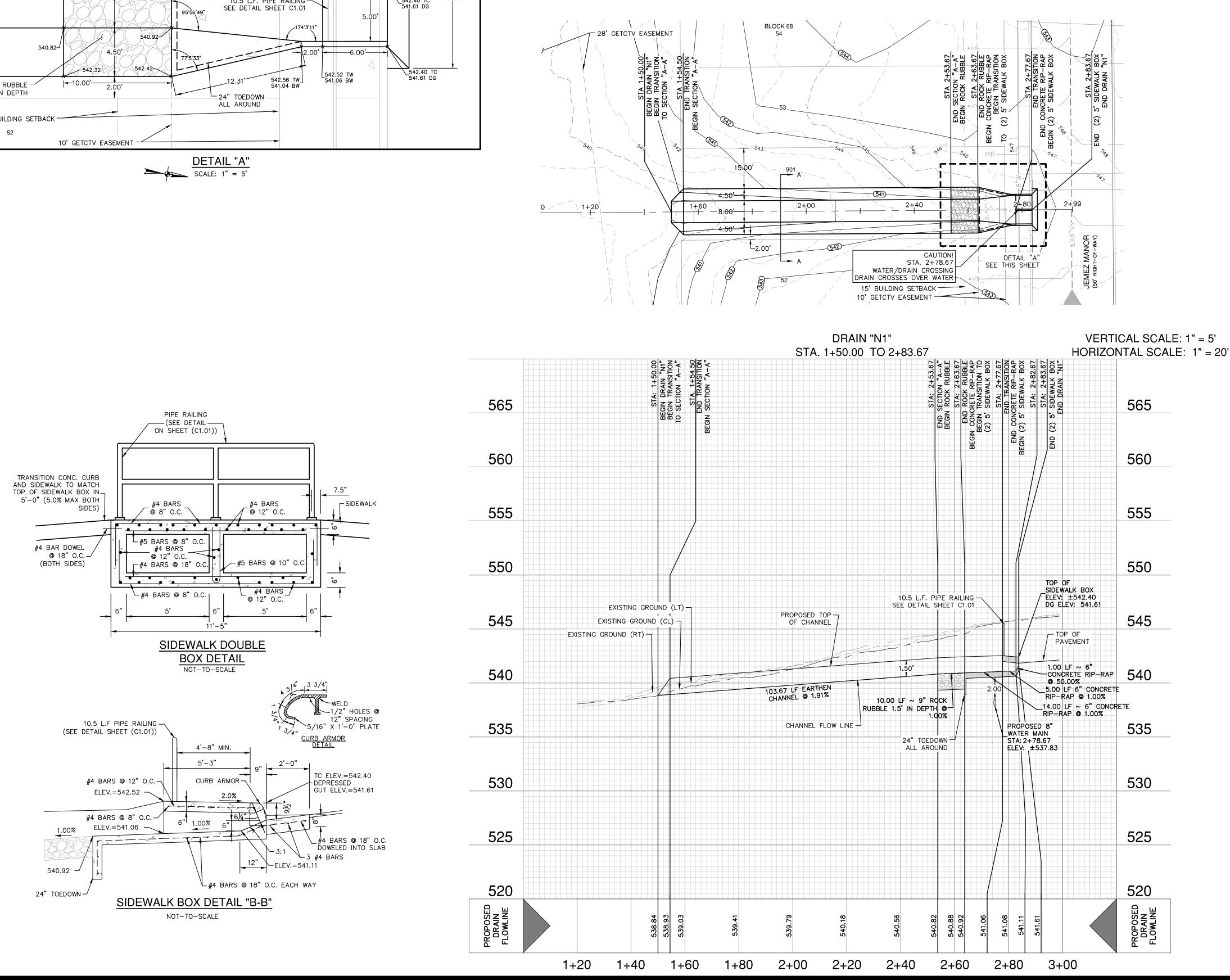
te: July 18, 2024, 1:48 PM — User ID: tcamacho e: P:\126\32\20\Design\Civil\DR1263220 DRAIN M2.dw

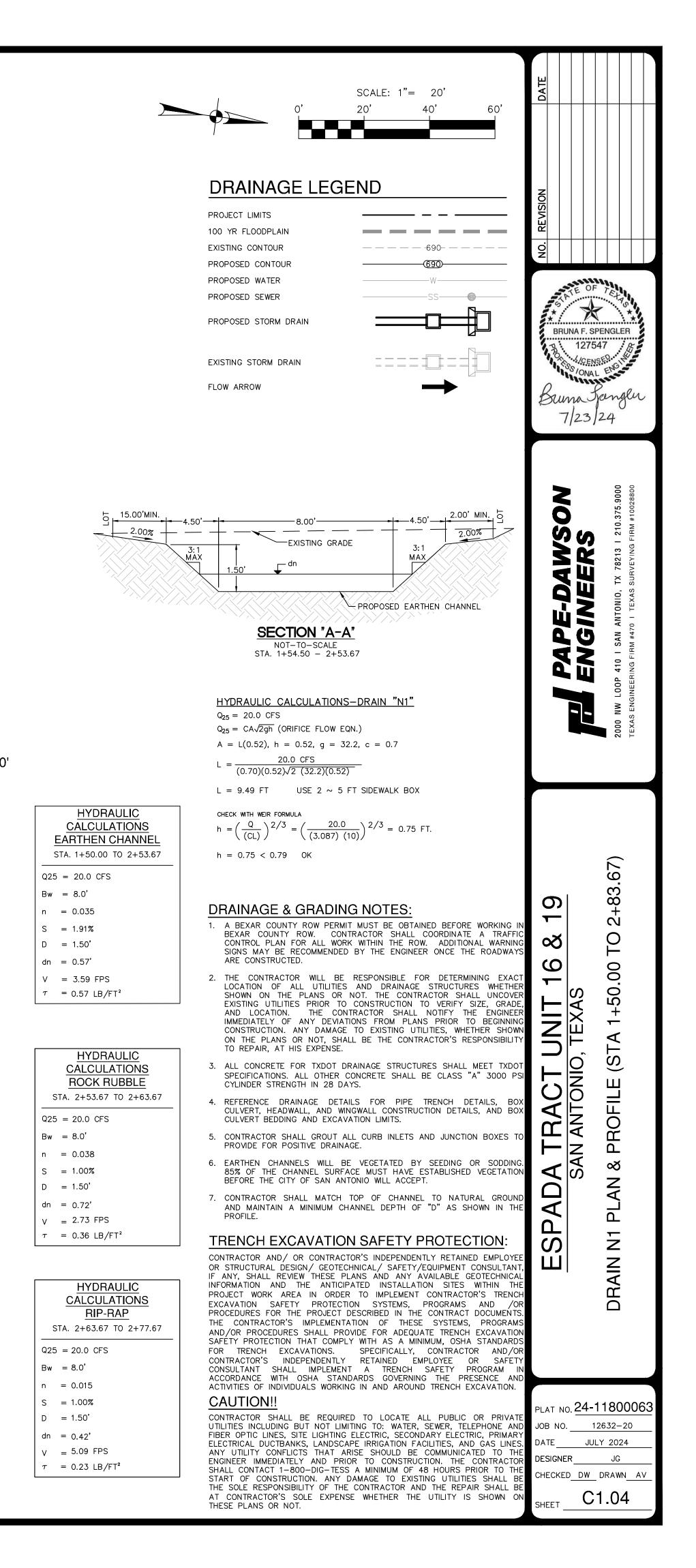


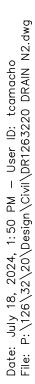


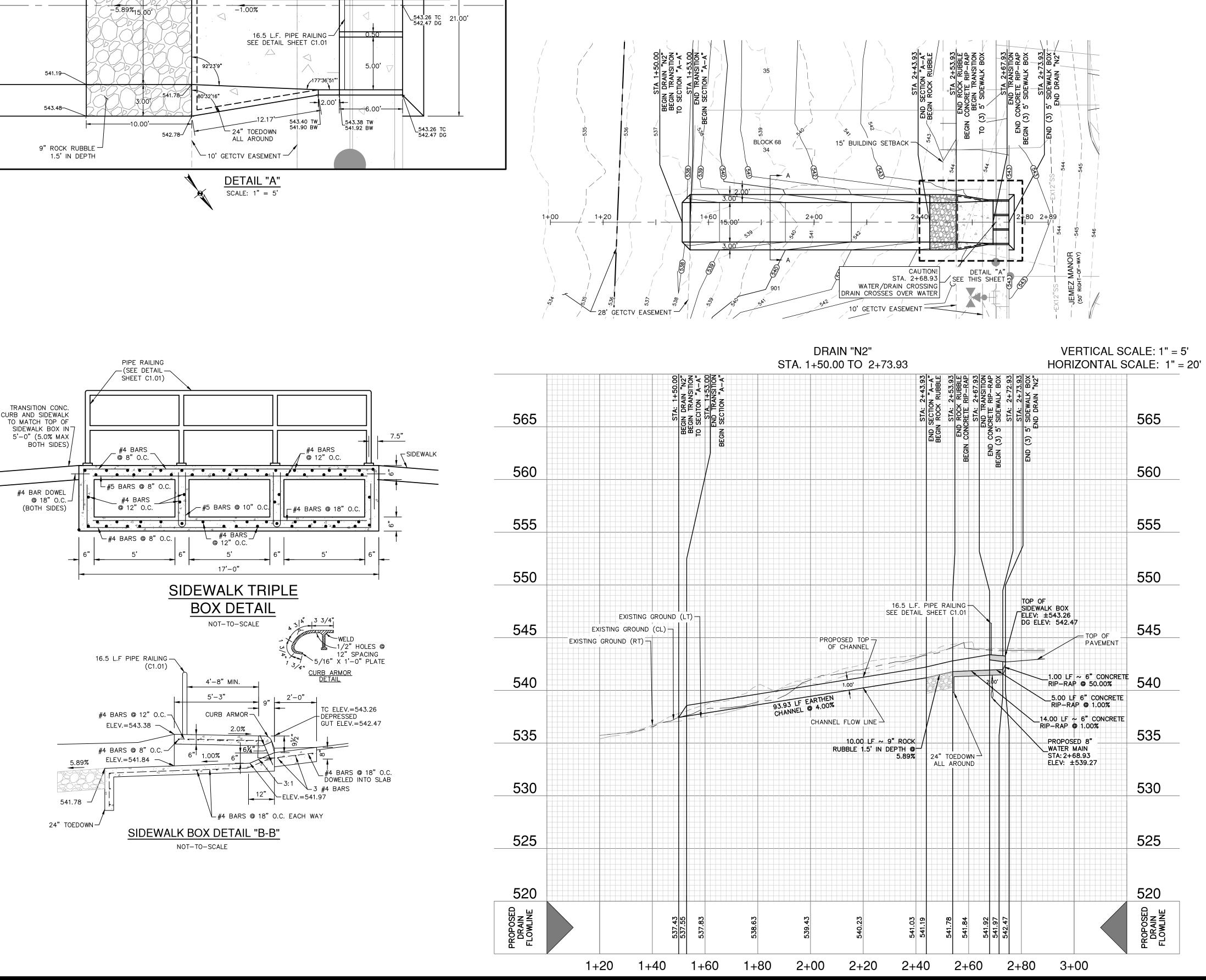


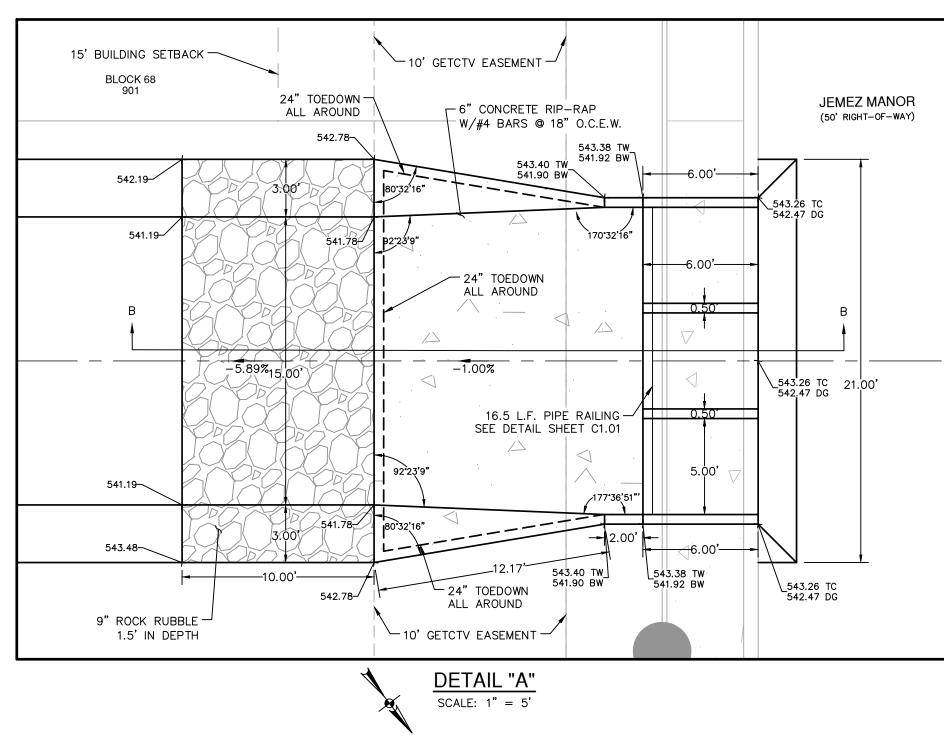
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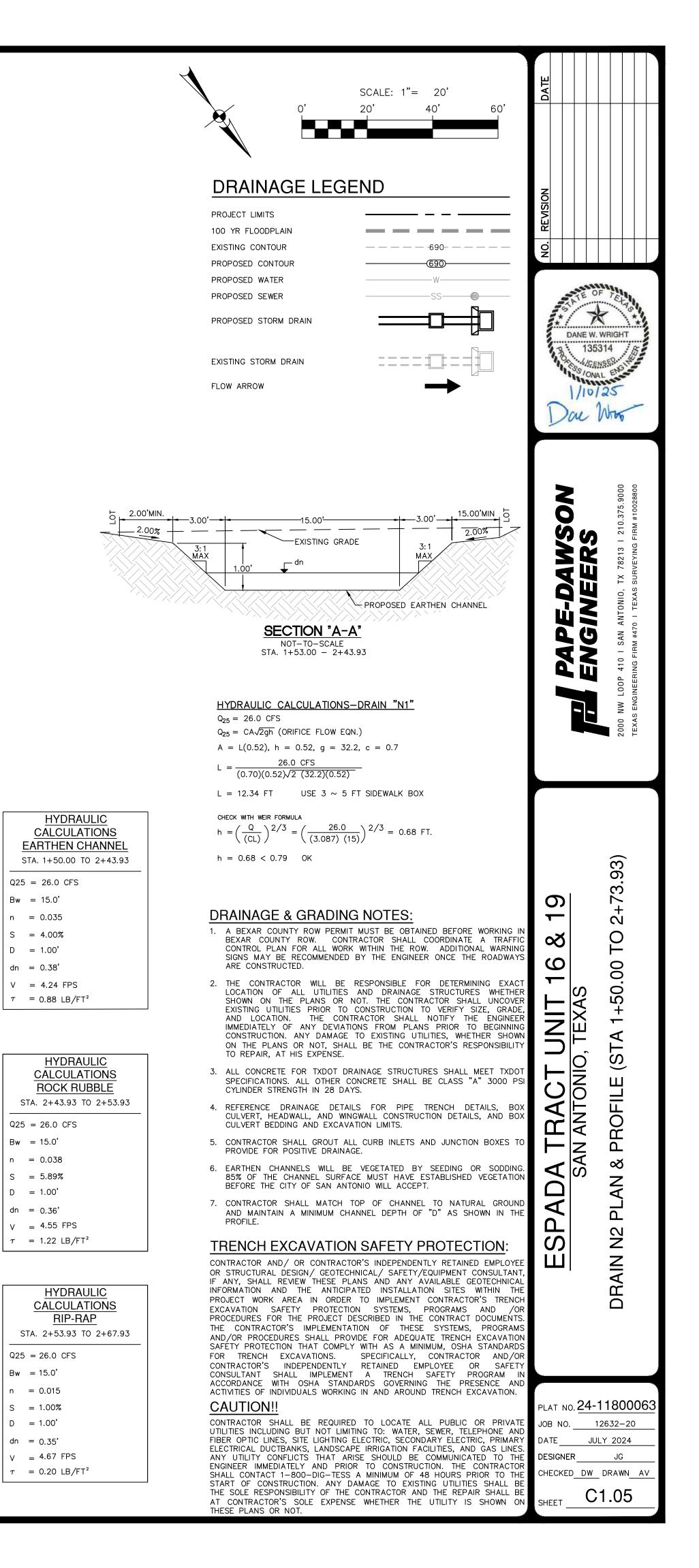


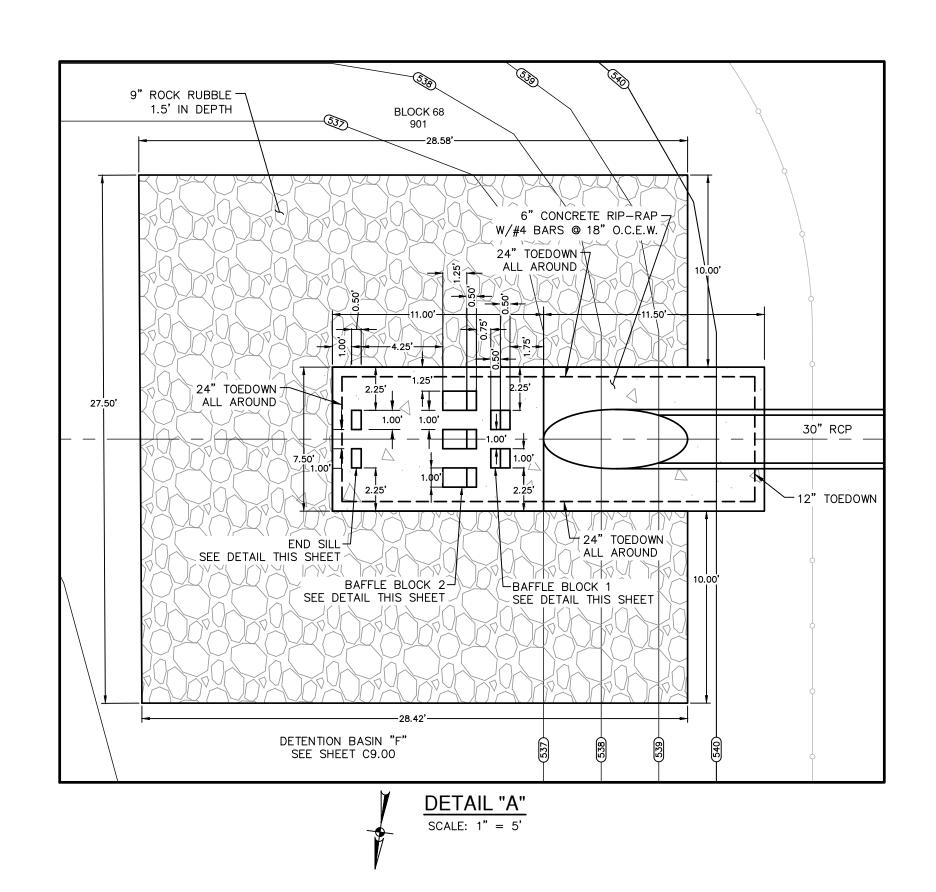


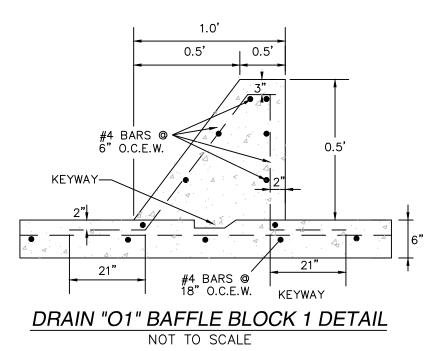


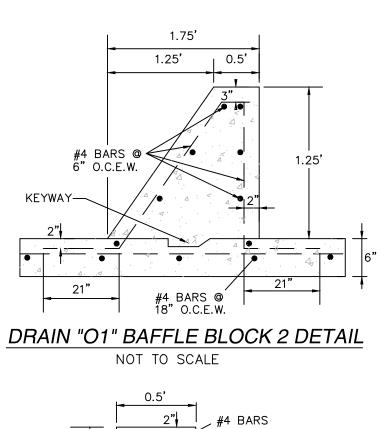


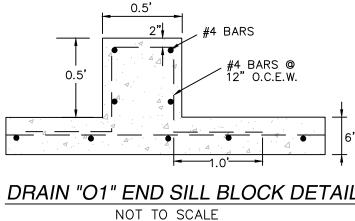
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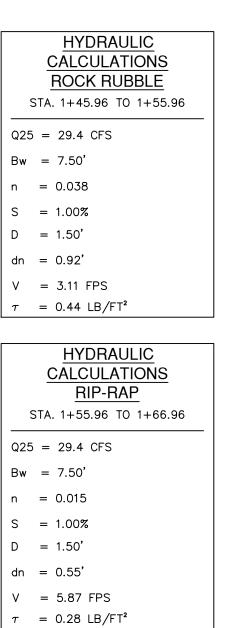


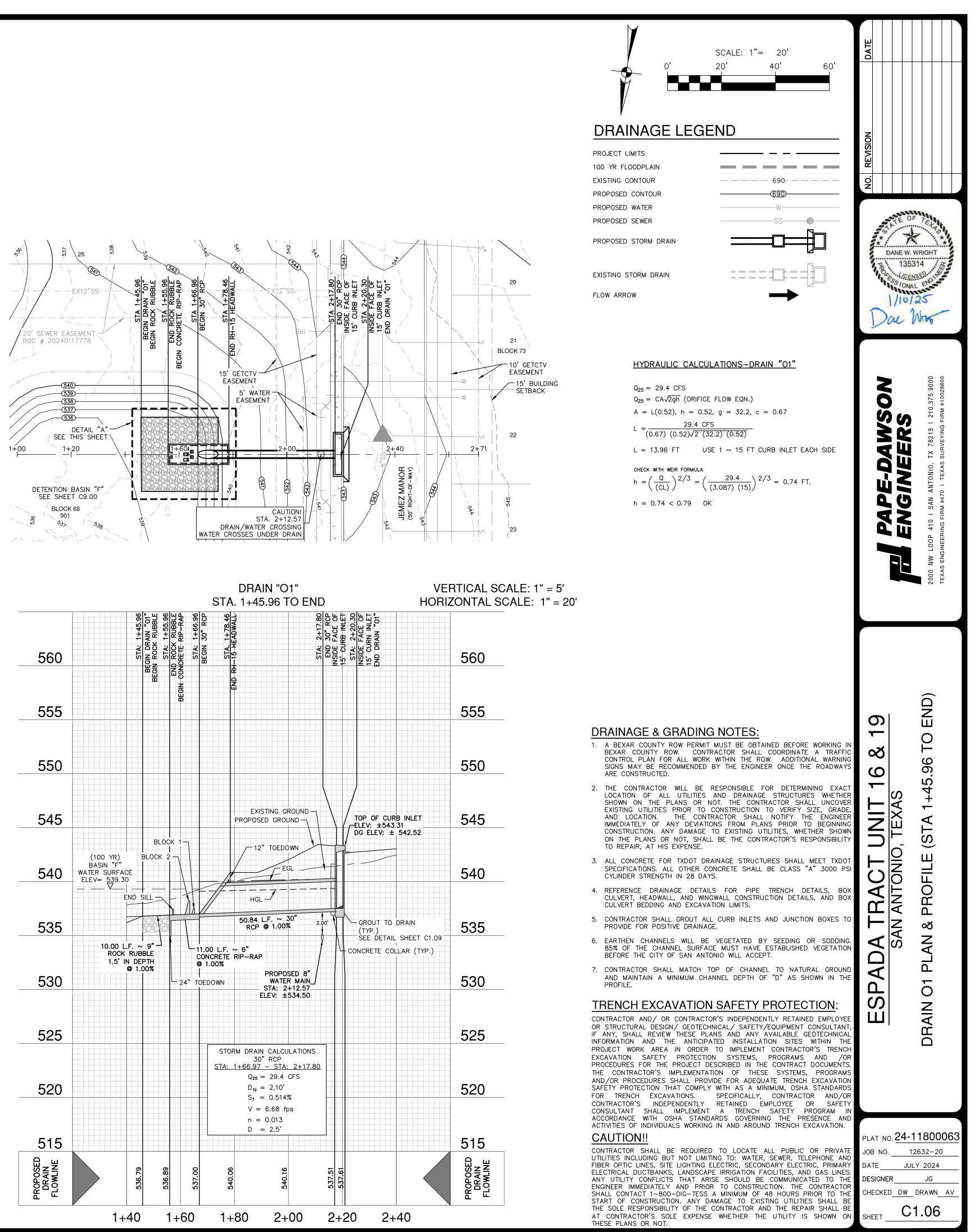


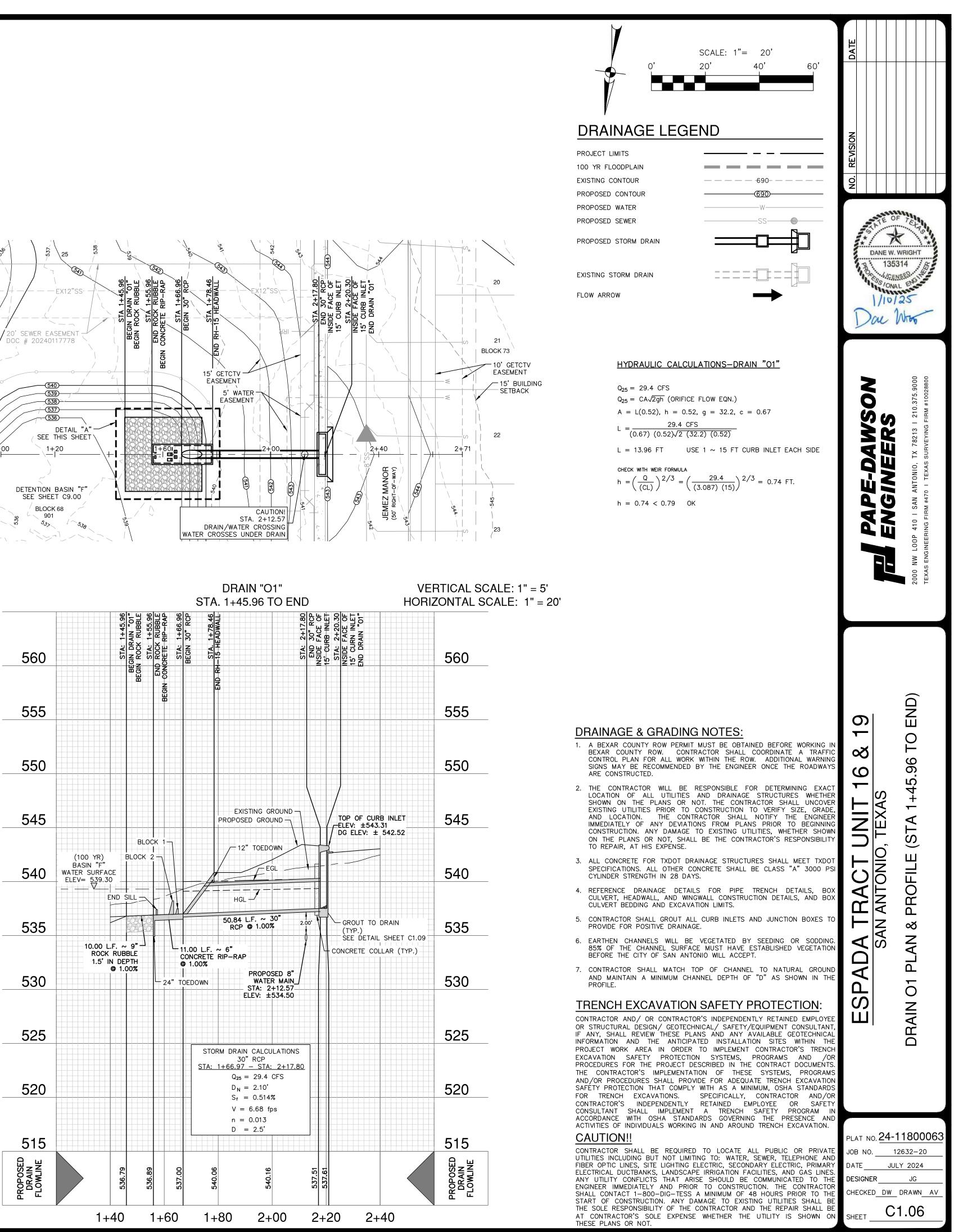


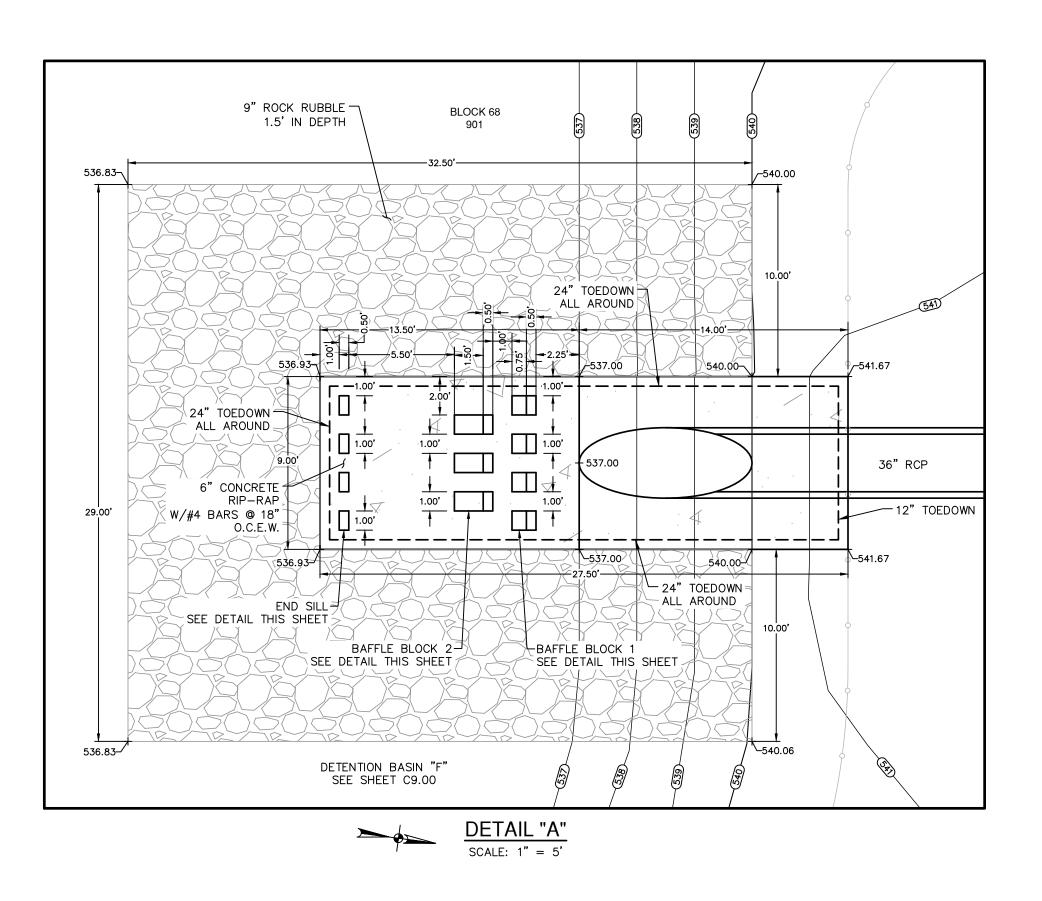


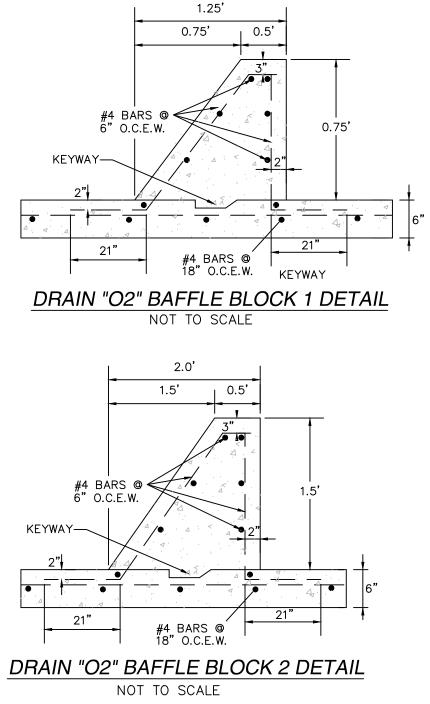
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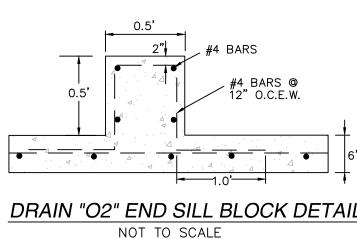




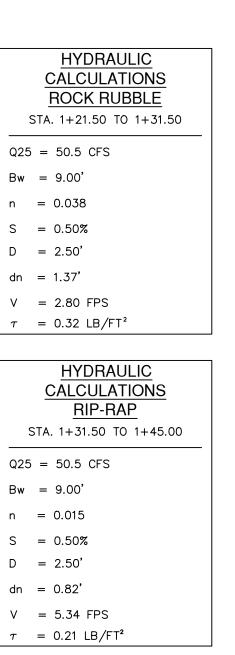


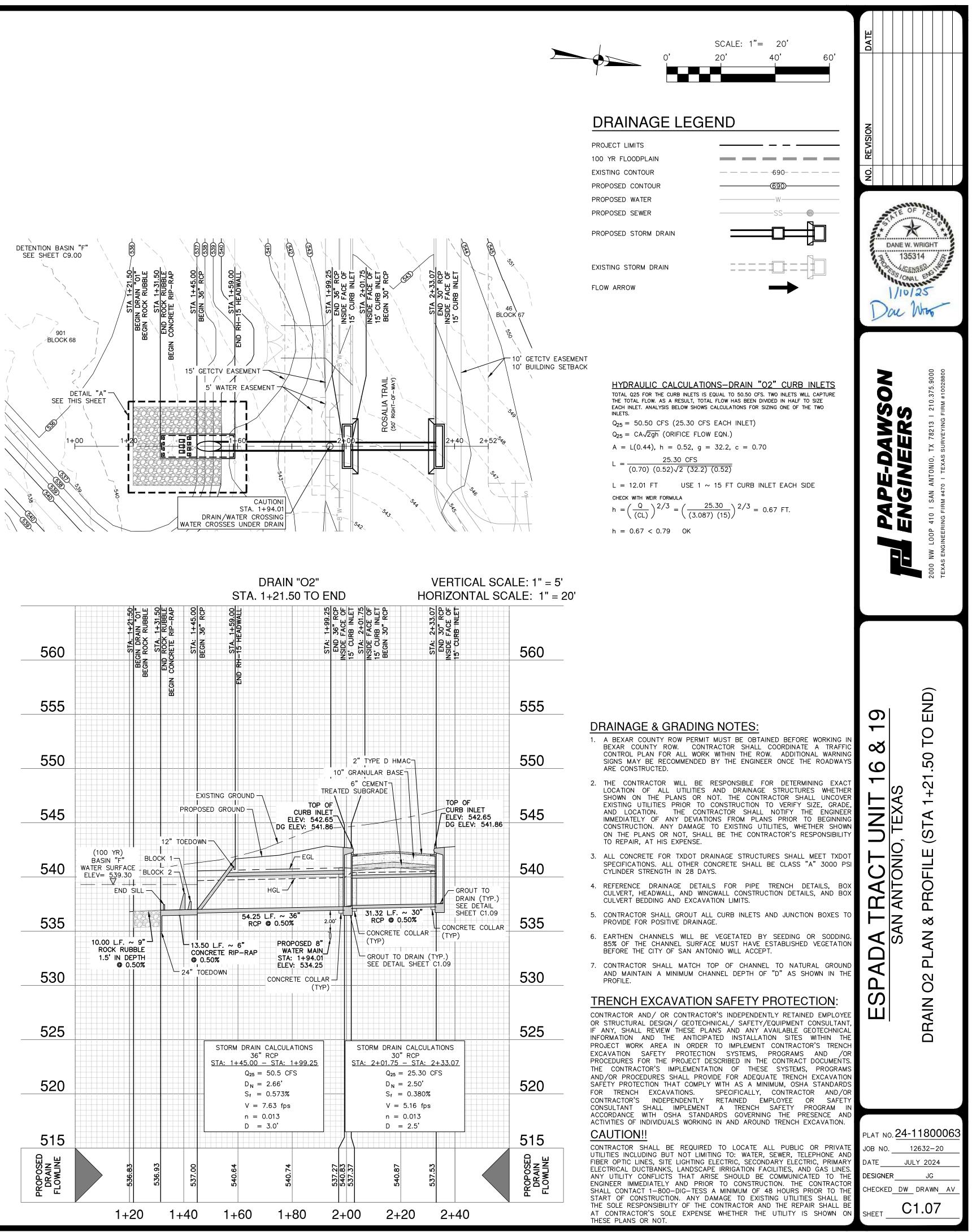


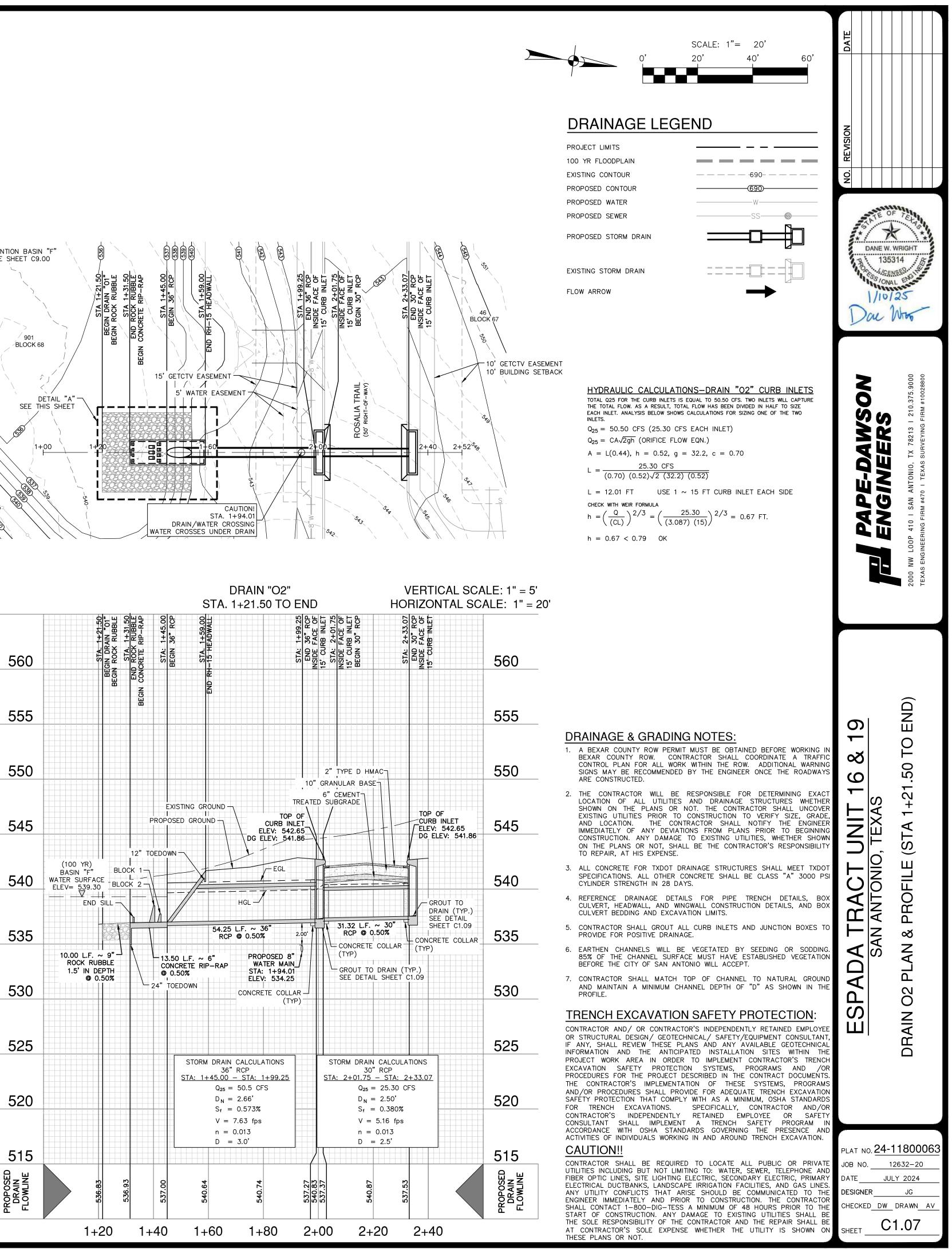


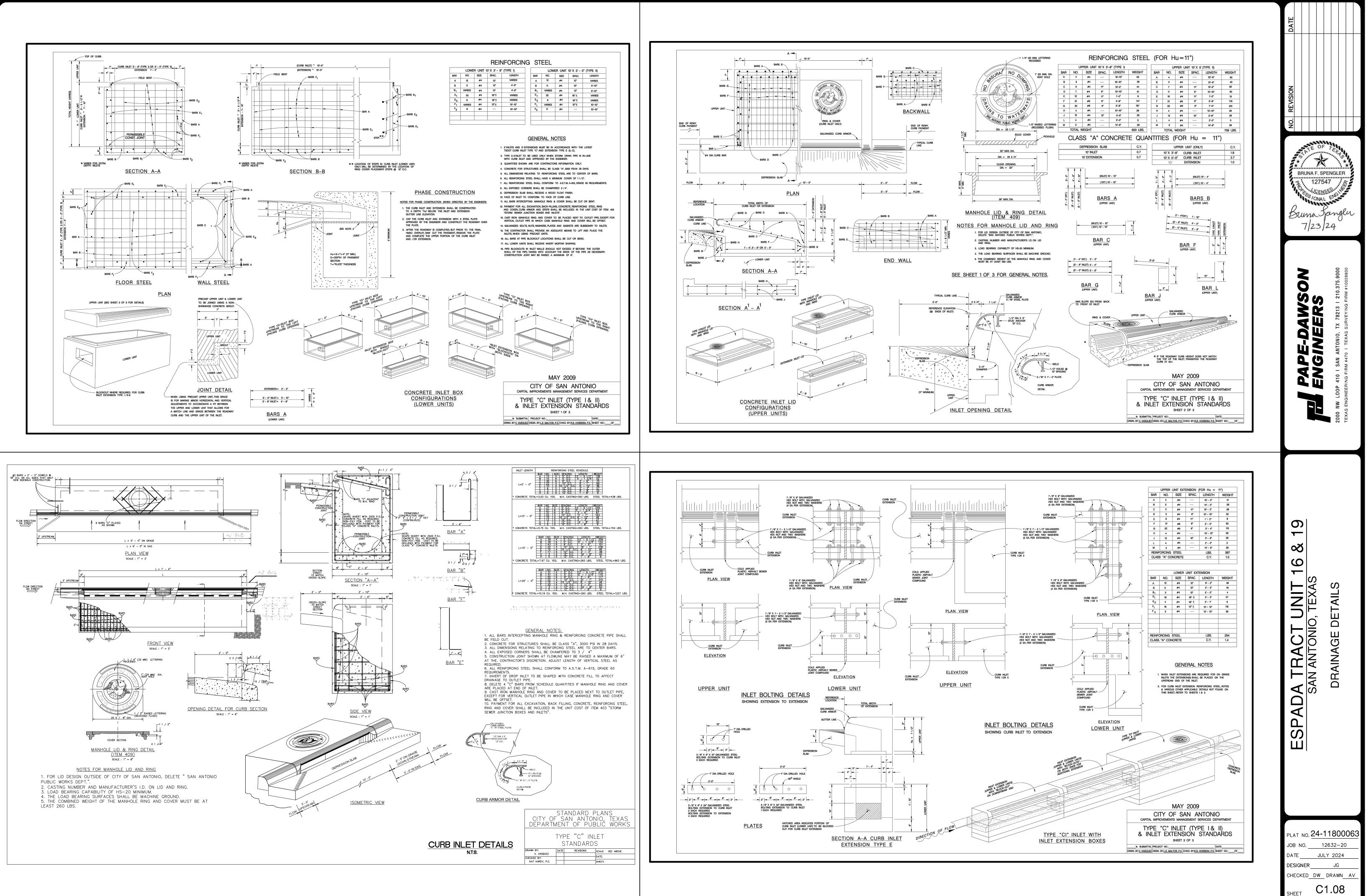


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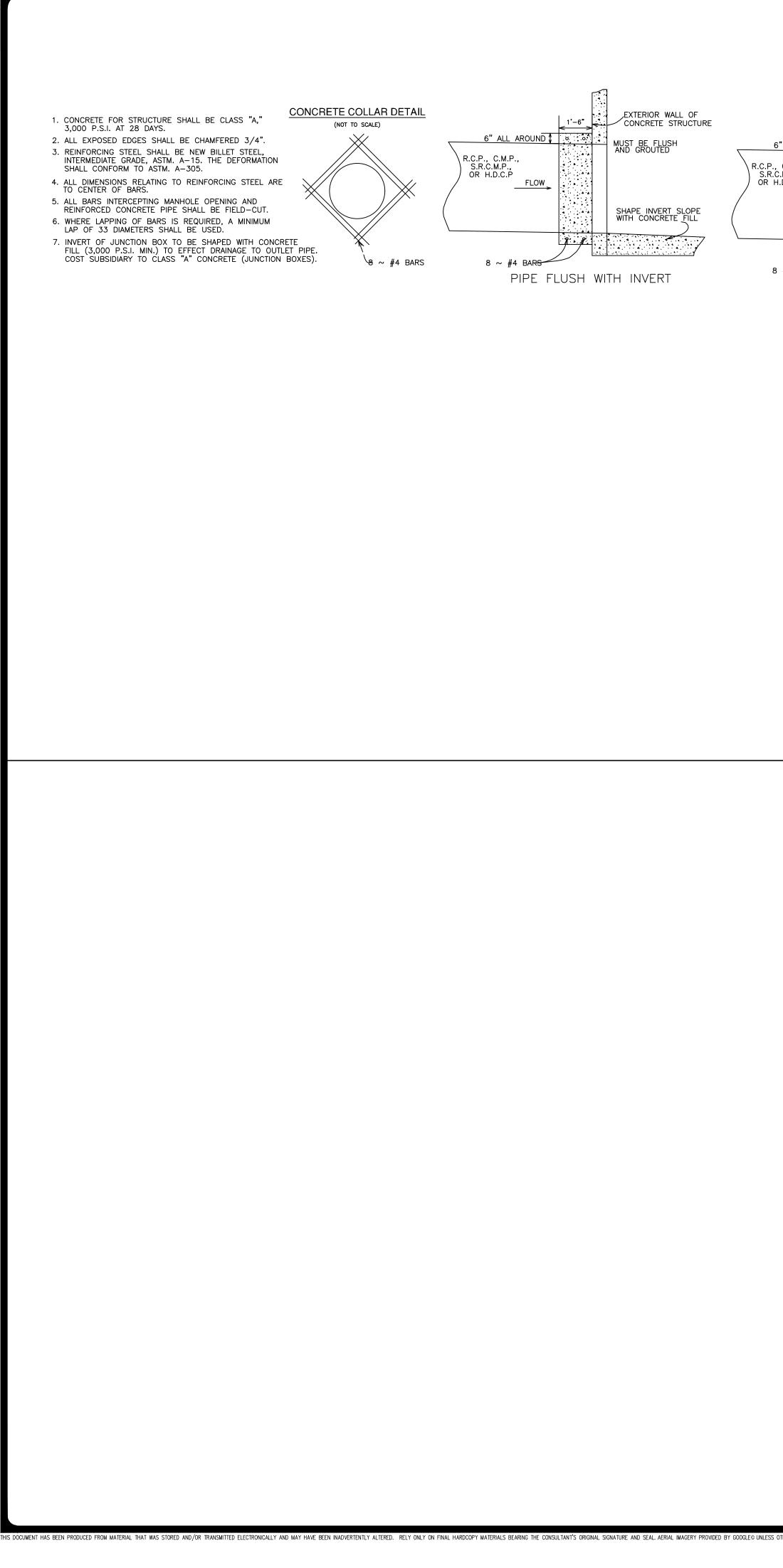


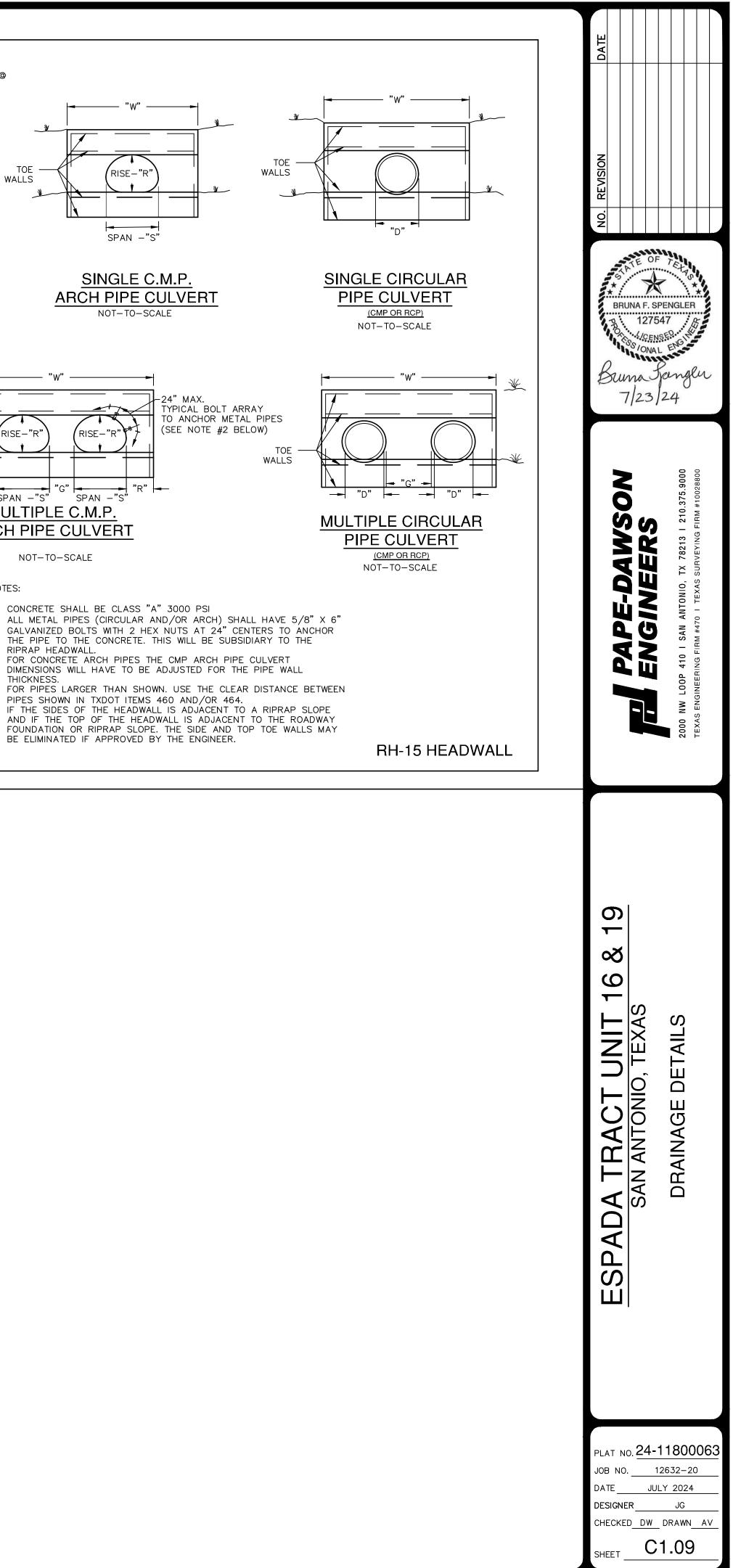


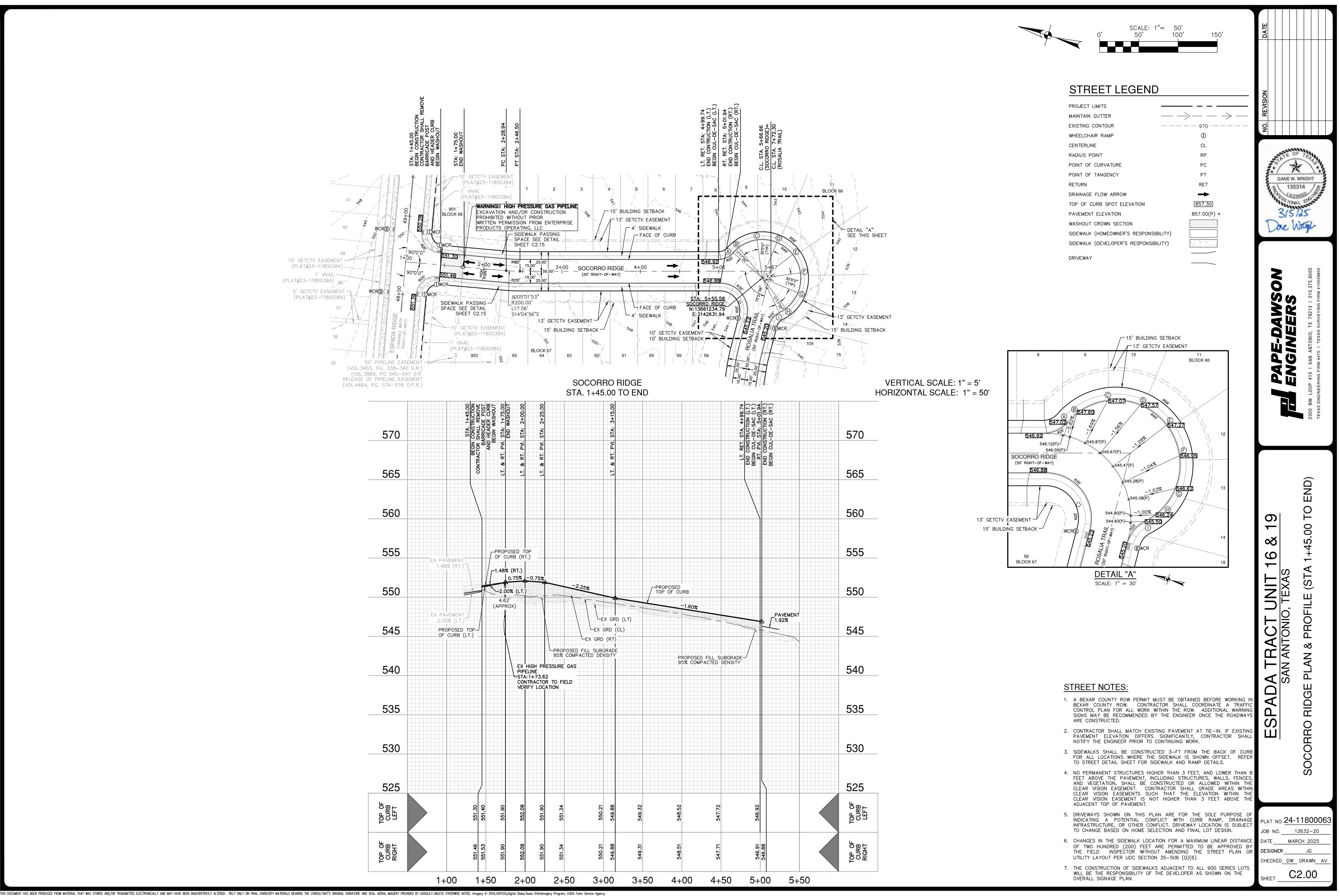




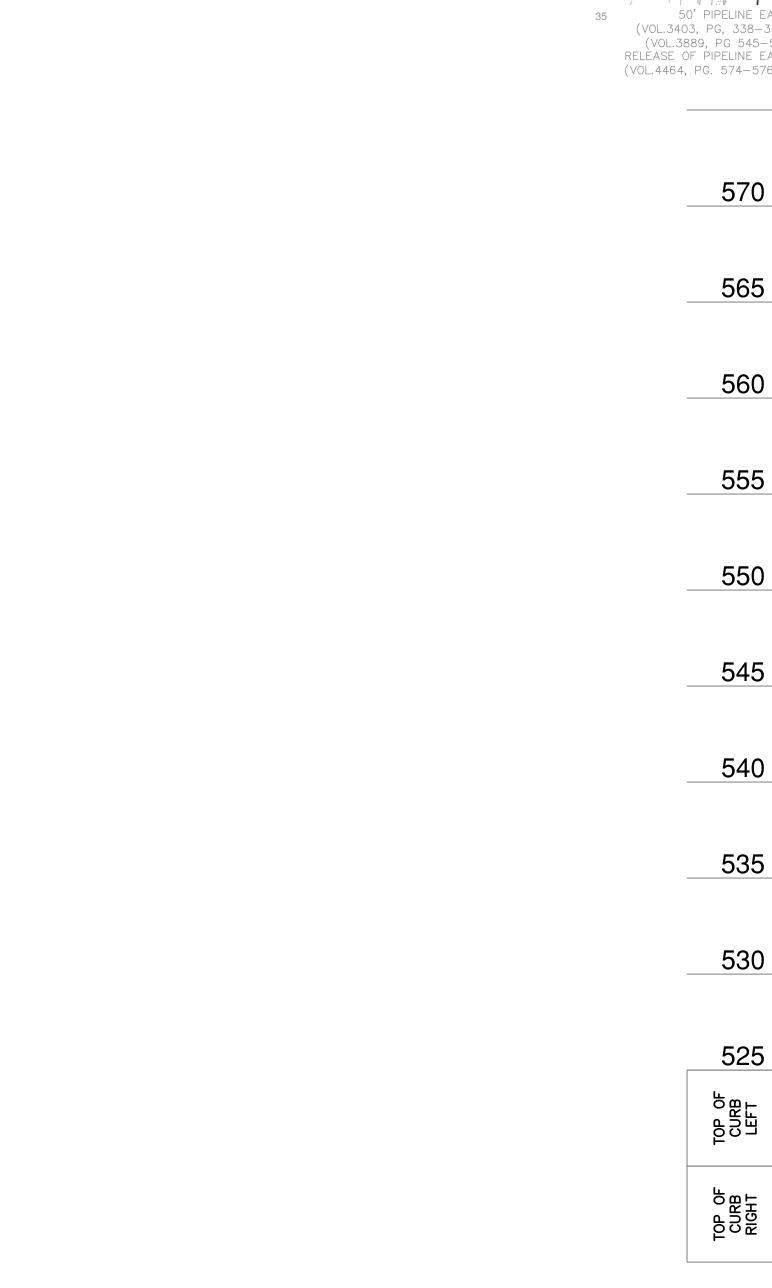
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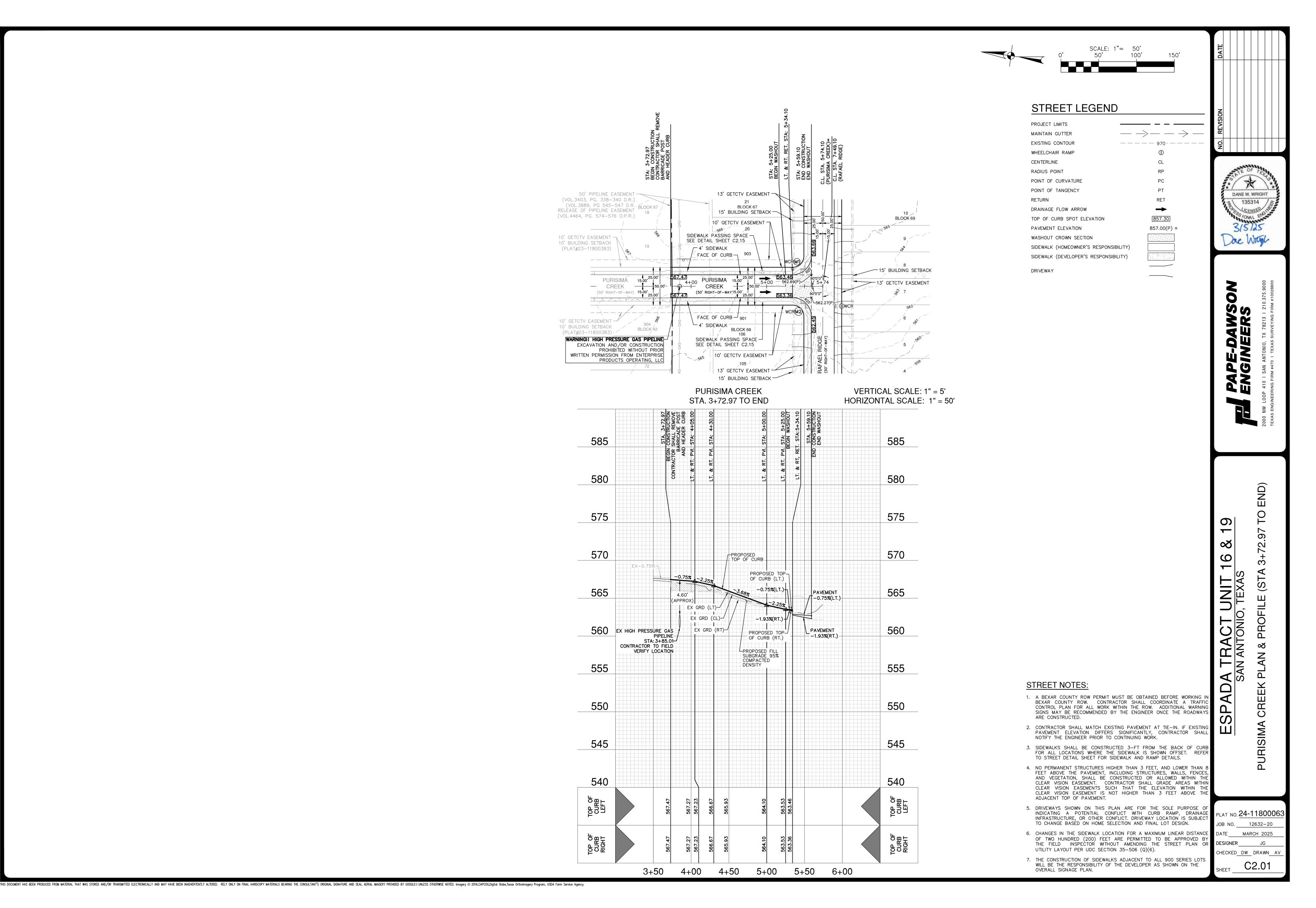


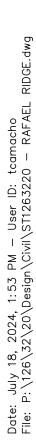


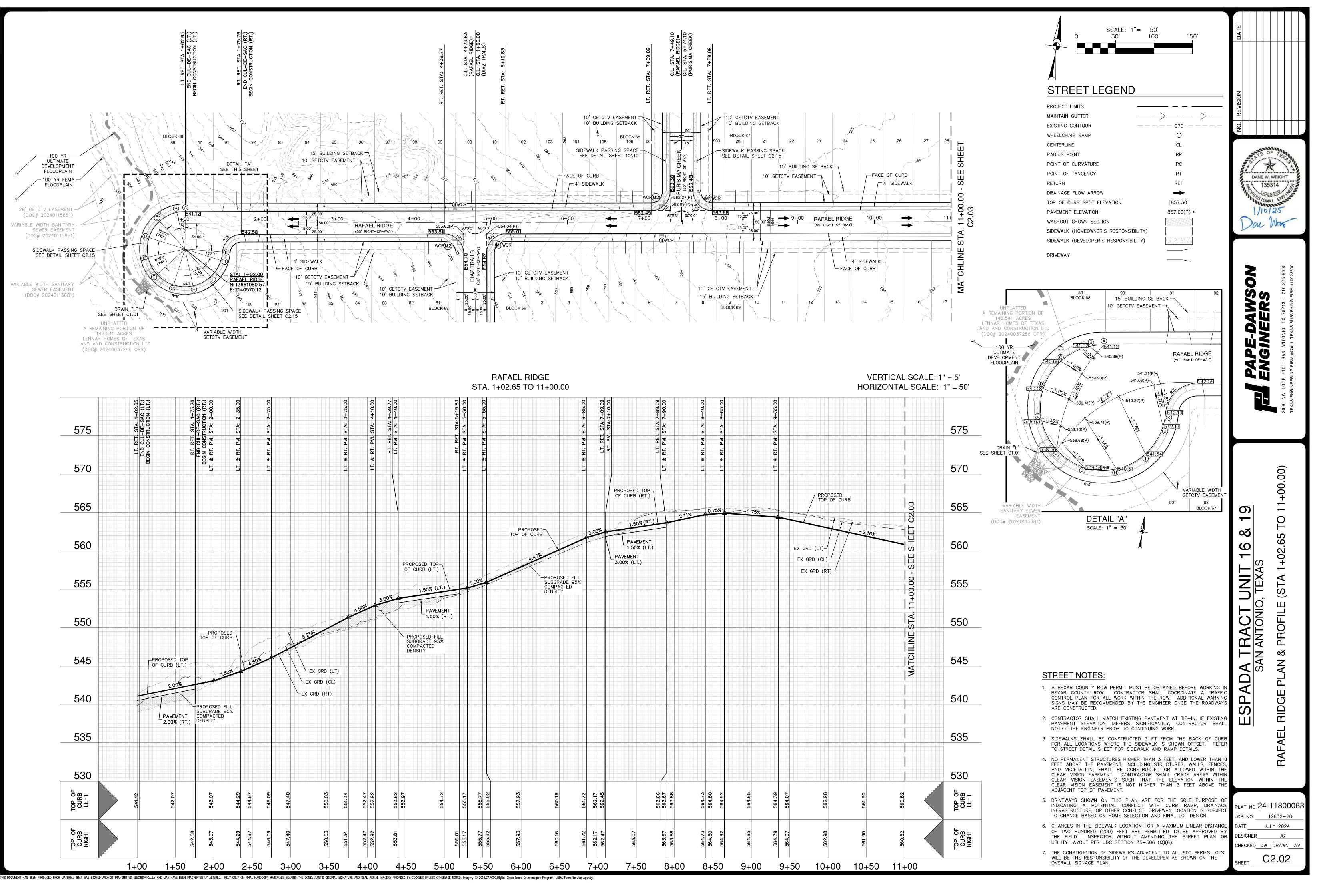


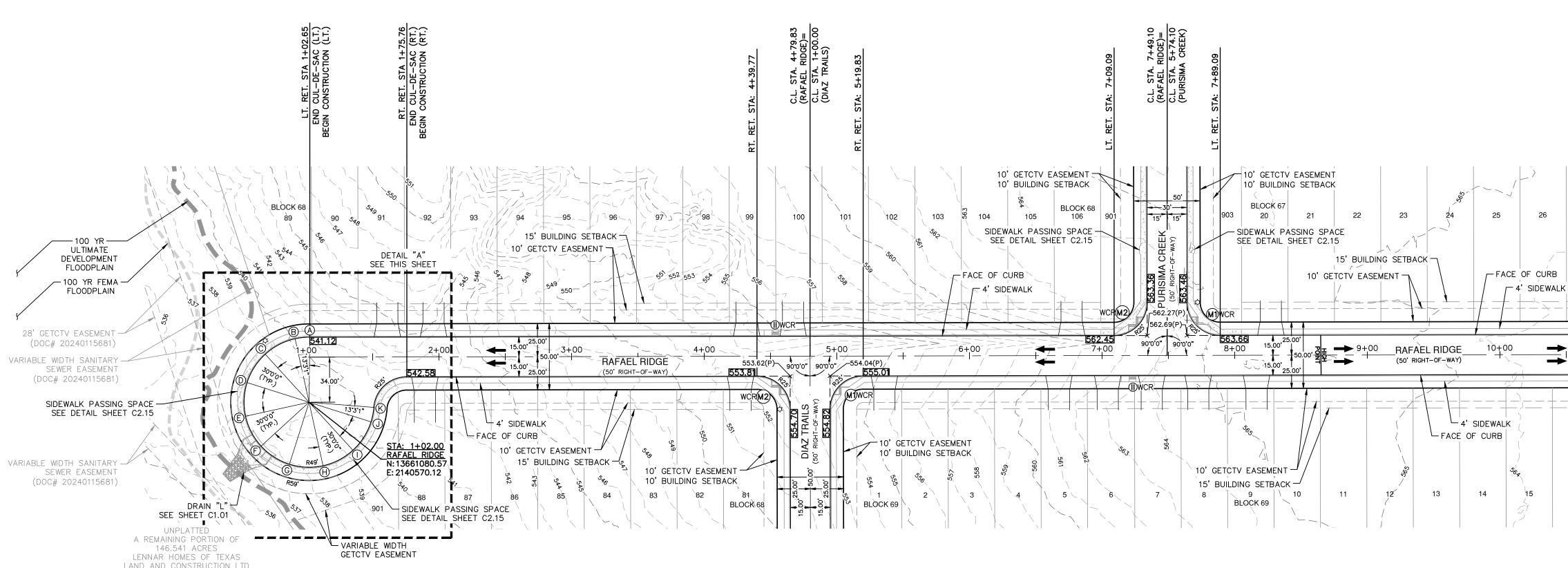




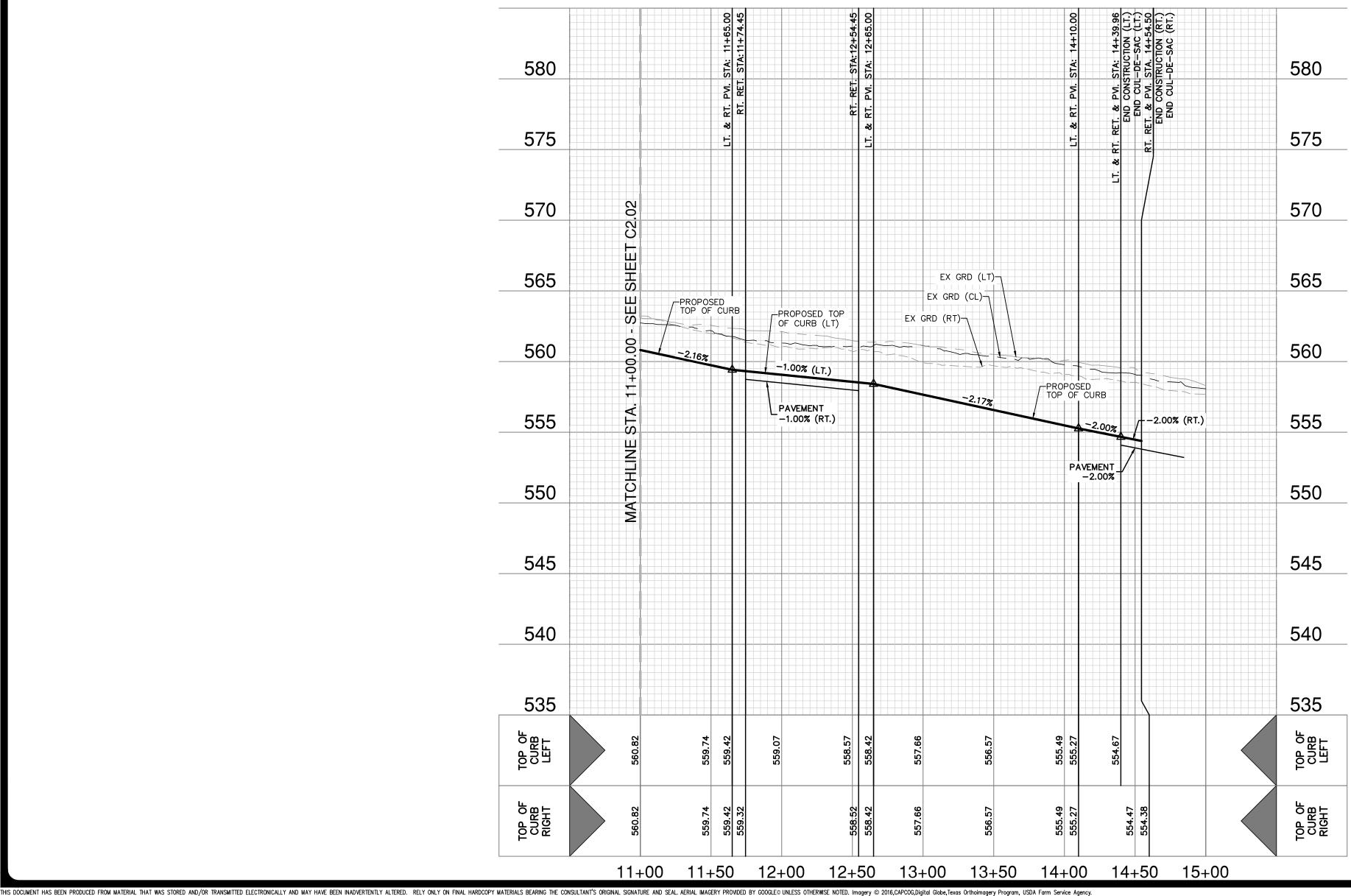


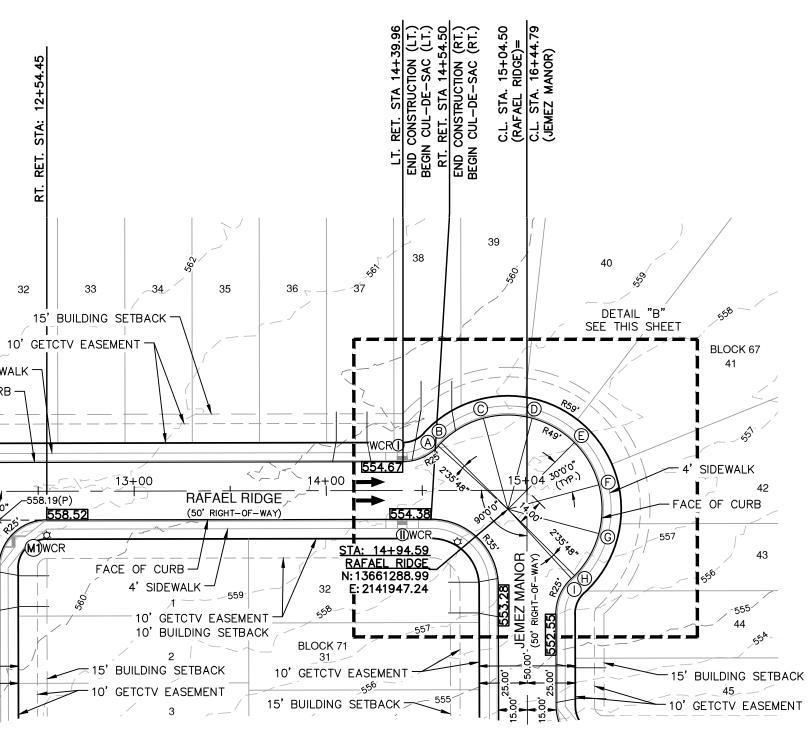






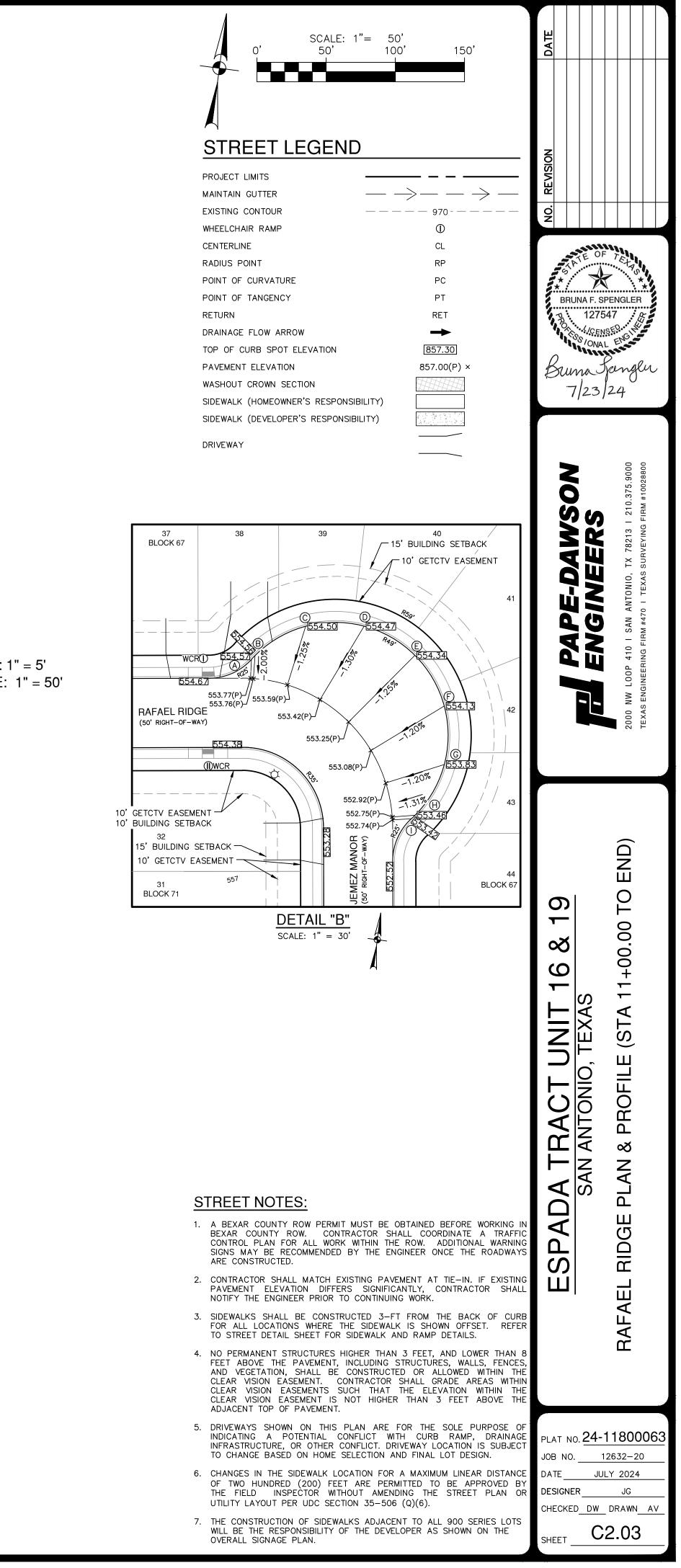
STA. AEL STA. C.L. (RAF C.L. (SAN C2.02 BLOCK 67 29 SHEET 563 4' SIDEWALK -SEE FACE OF CURB 12+00 558.49(P) 90'0' 90'0' 558.19(P) **7.32** P3.1 2 P3. ST MATCHLINE 15' BUILDING SETBACK -10' GETCTV EASEMENT 18 BLOCK 69 10' GETCTV EASEMENT [–] 10' BUILDING SETBACK

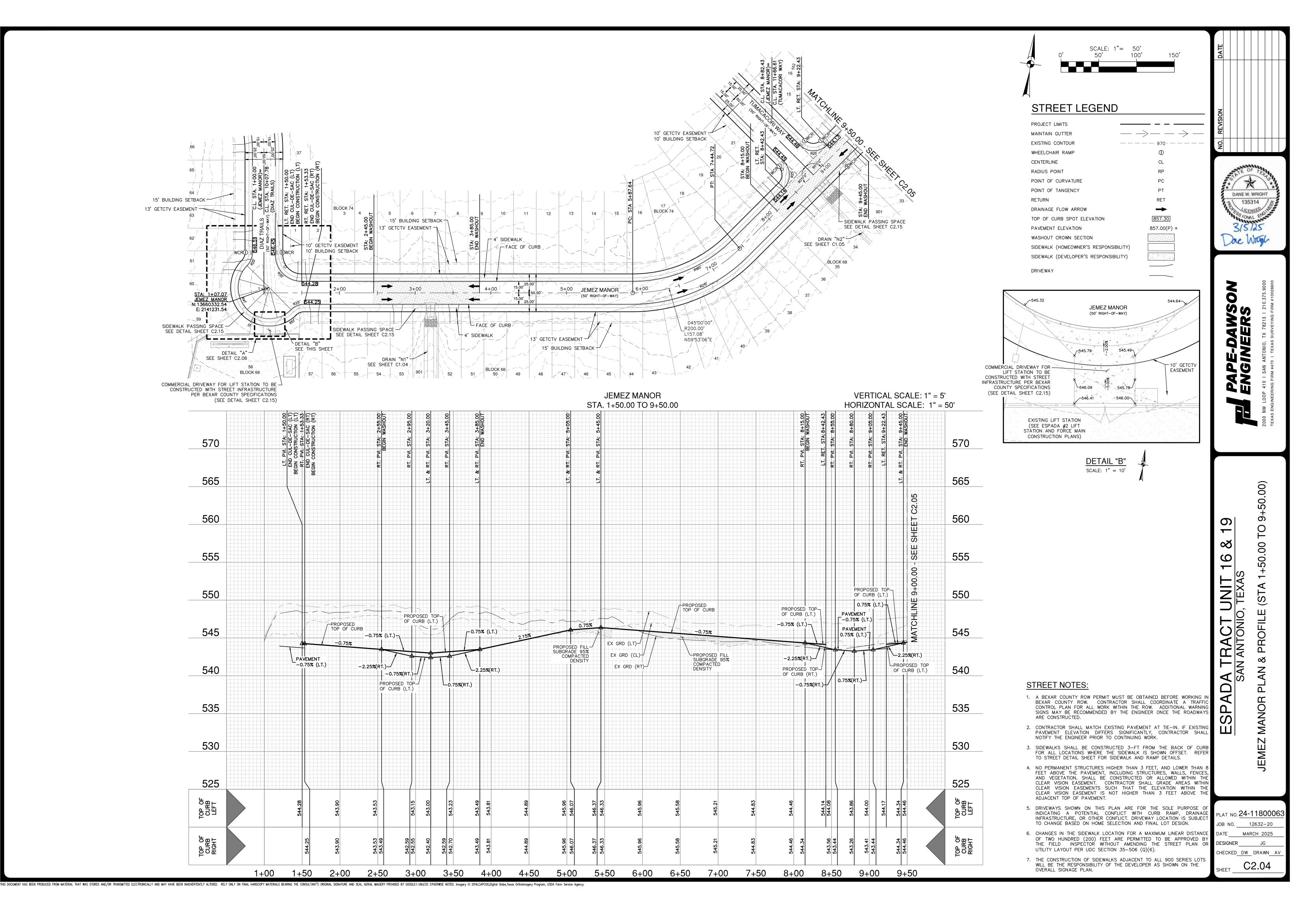




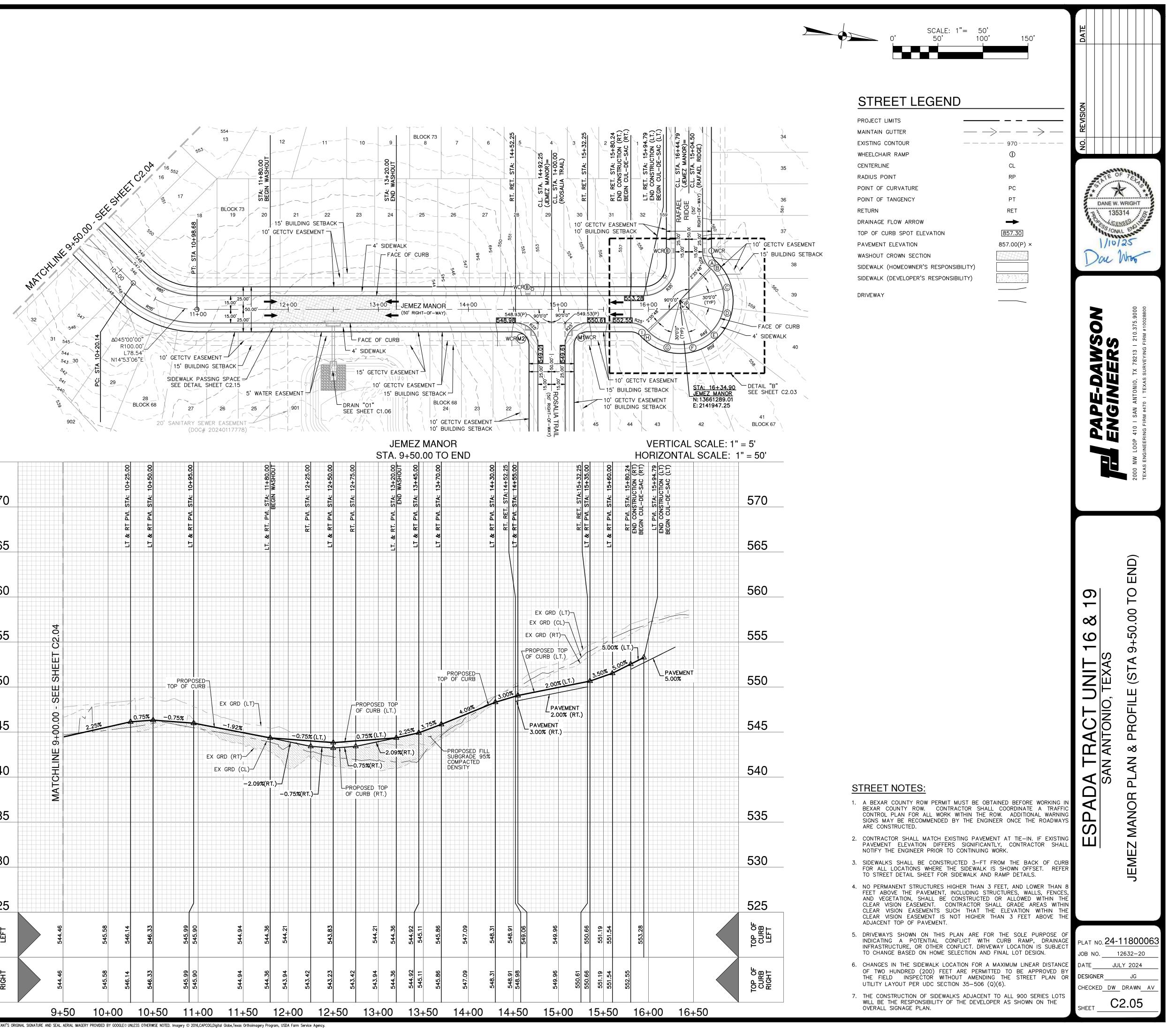
RAFAEL RIDGE STA. 11+00.00 TO END

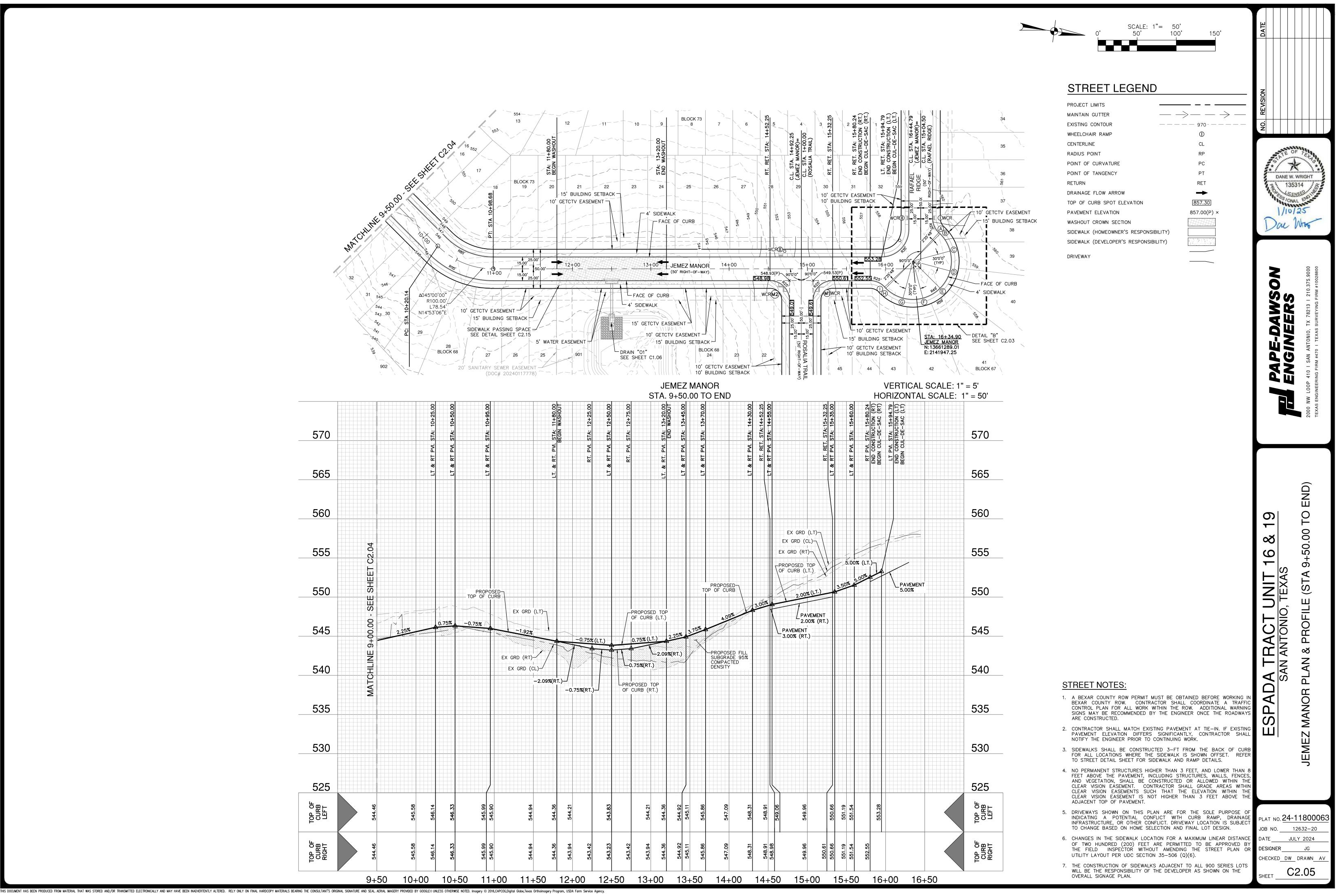
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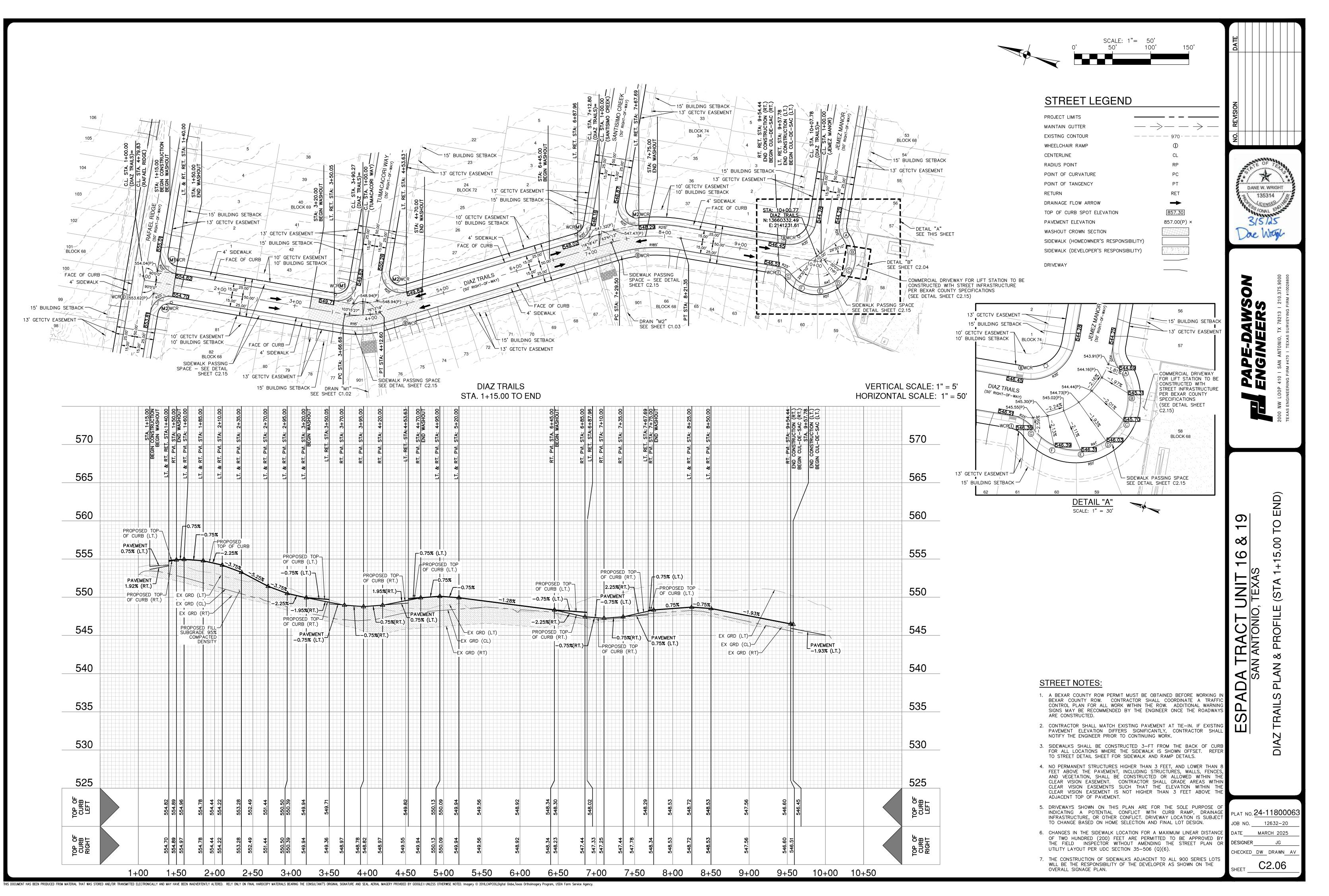




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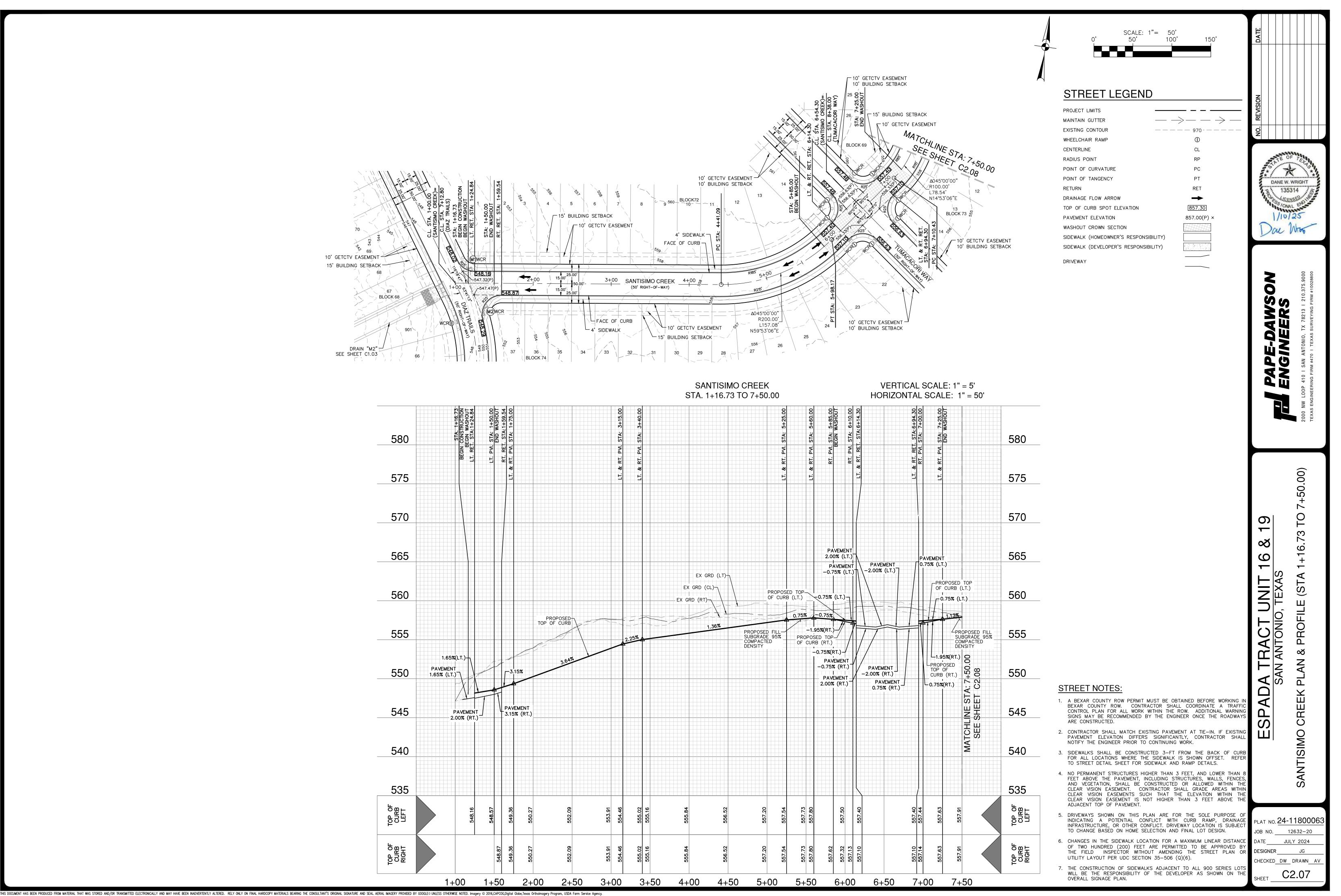


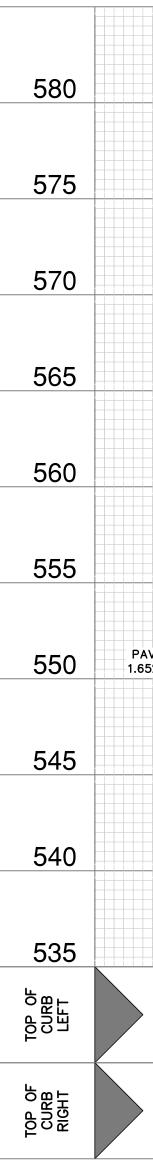


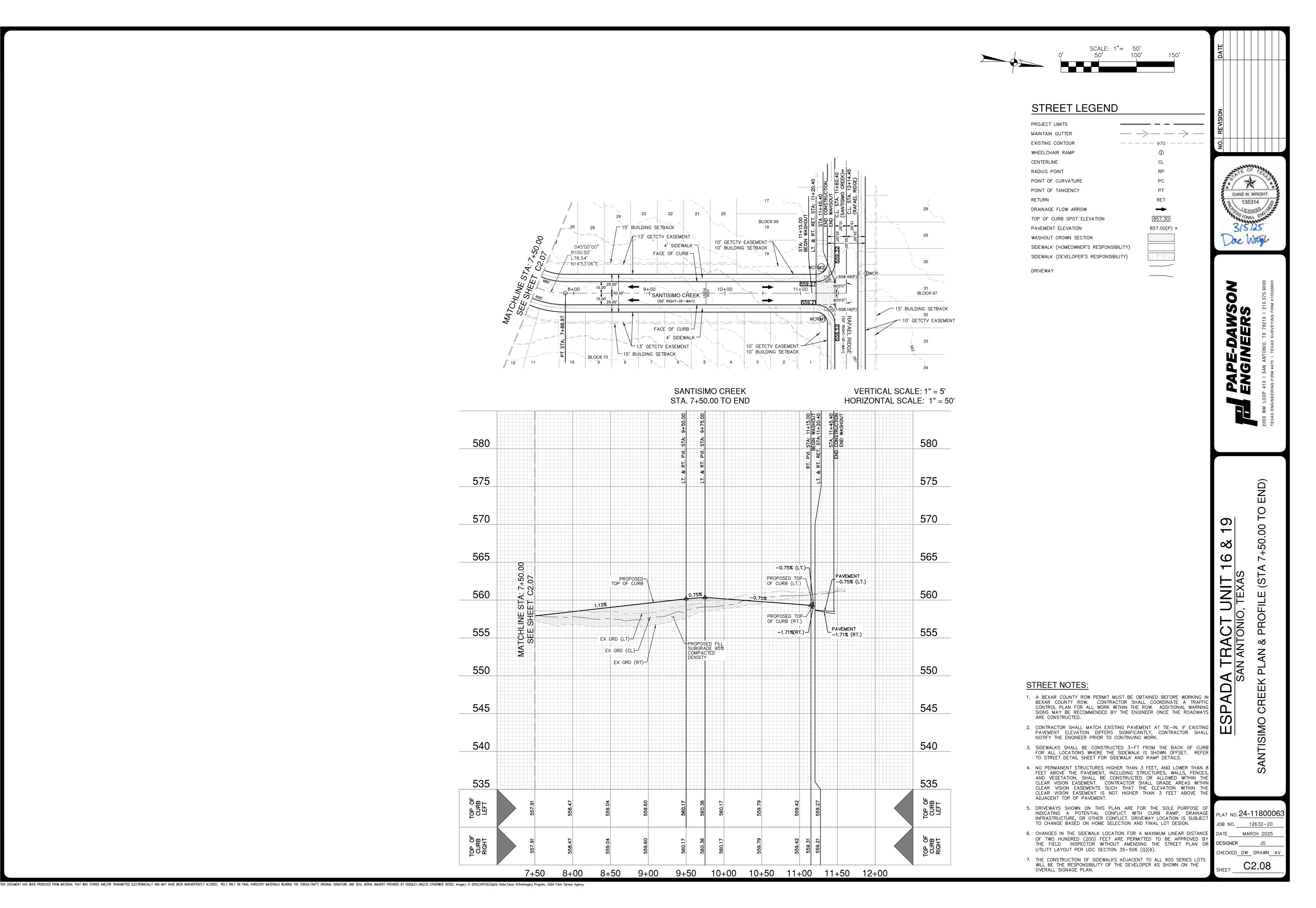


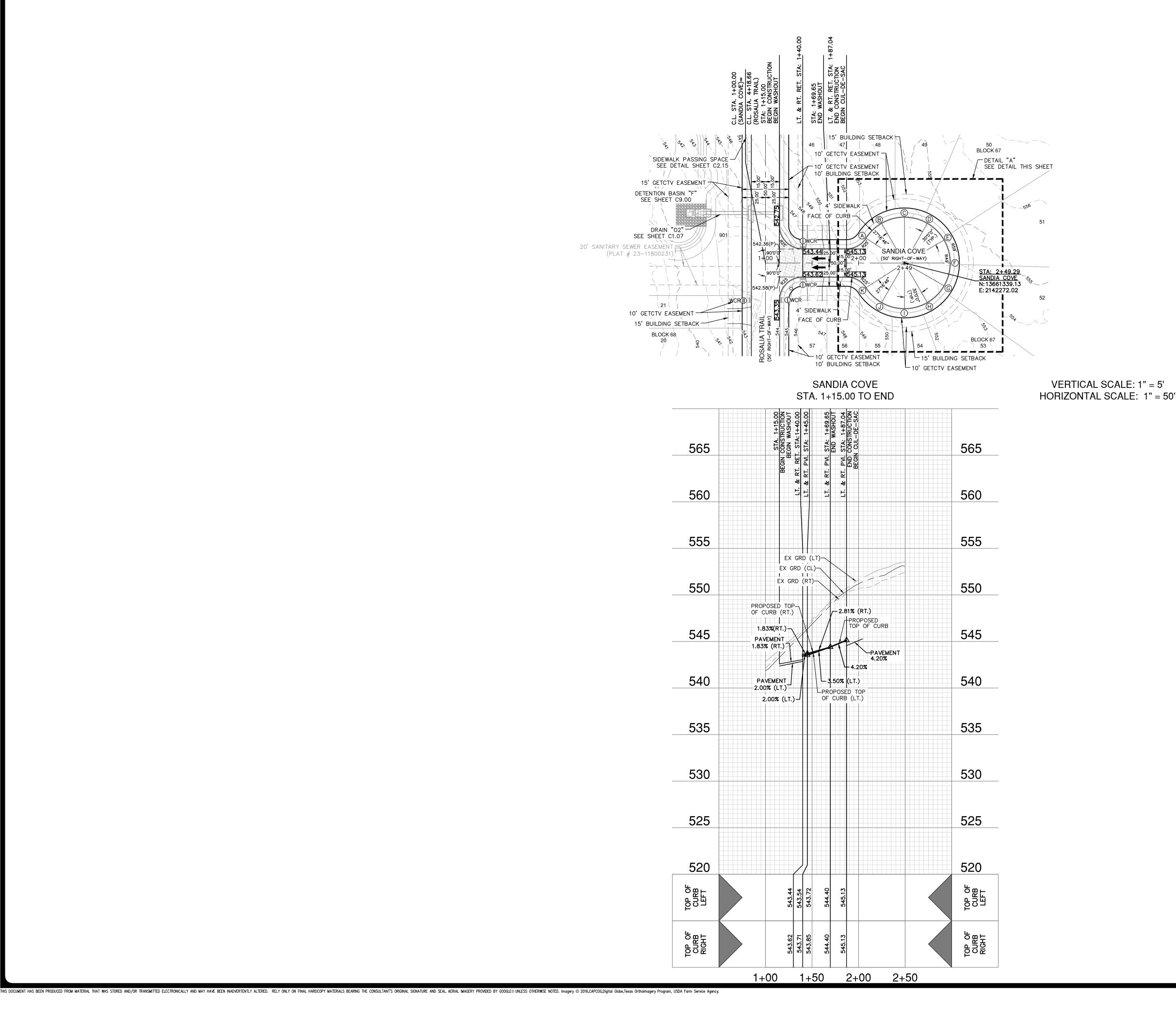
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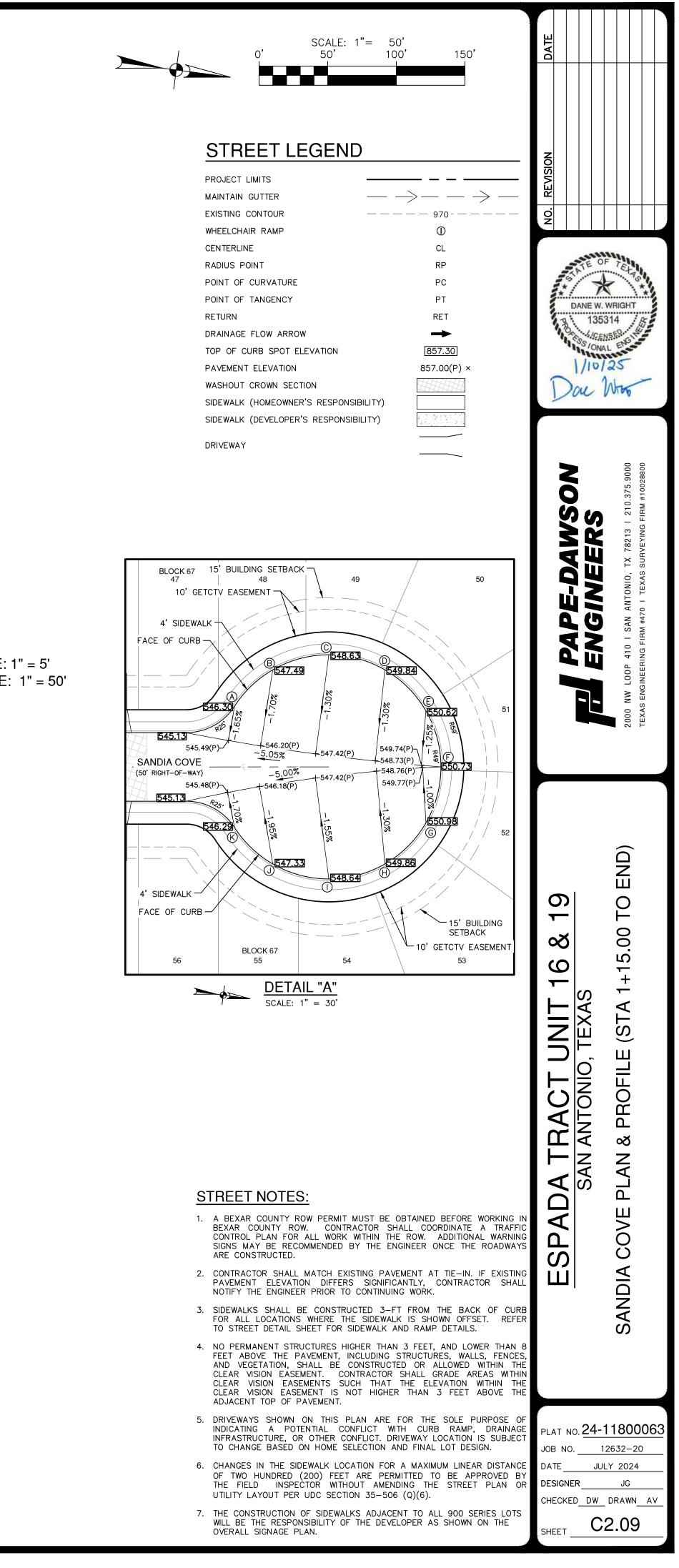


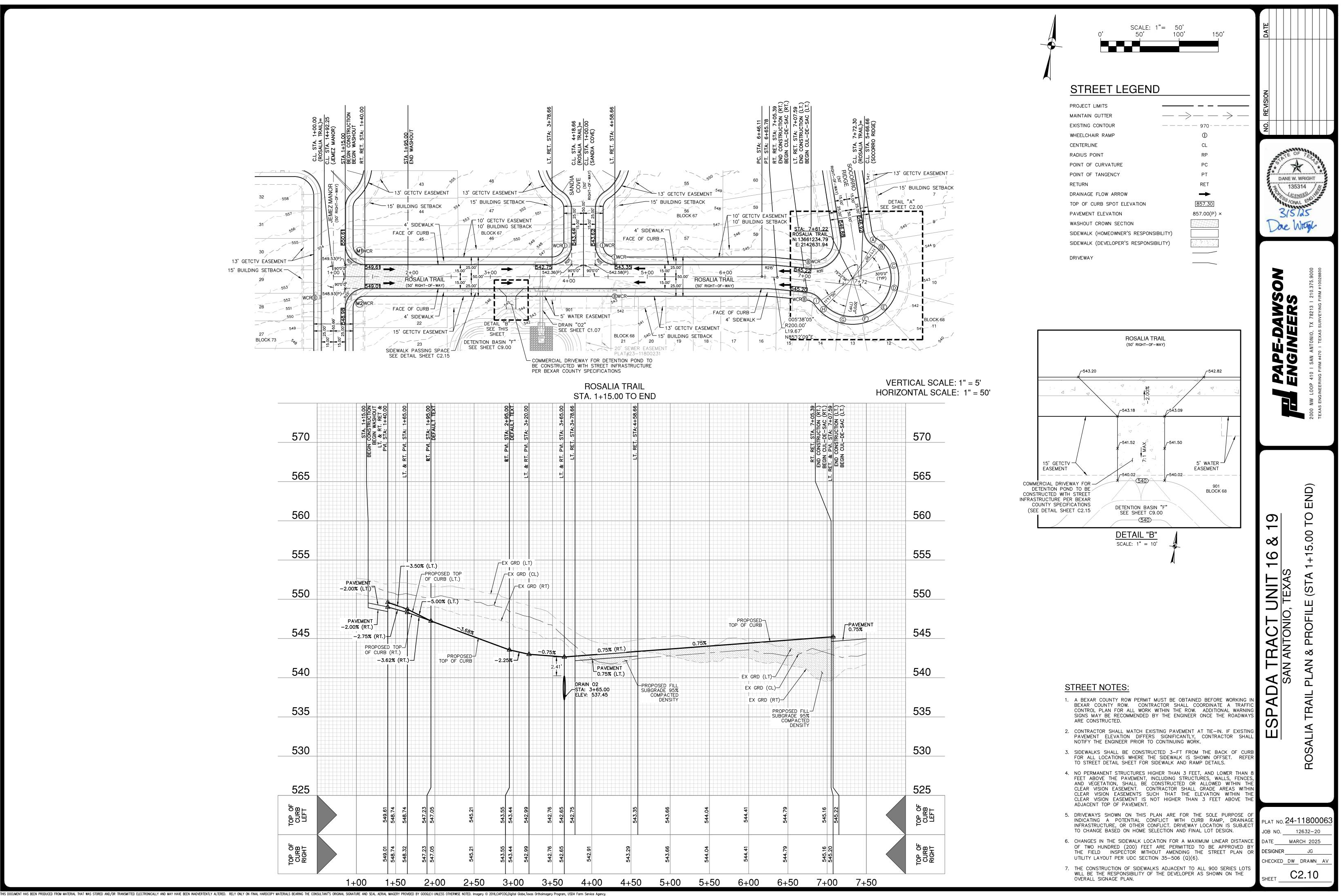


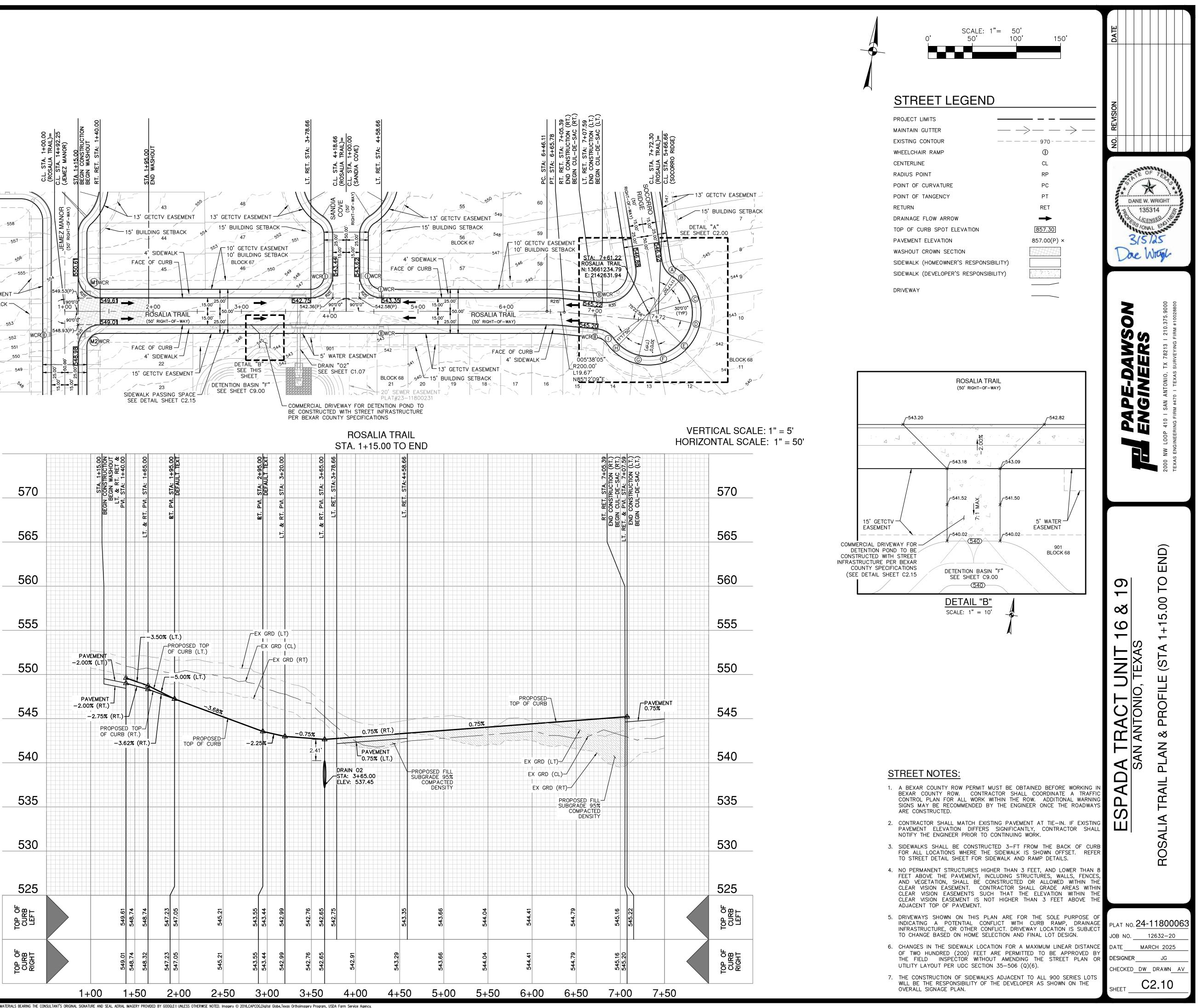


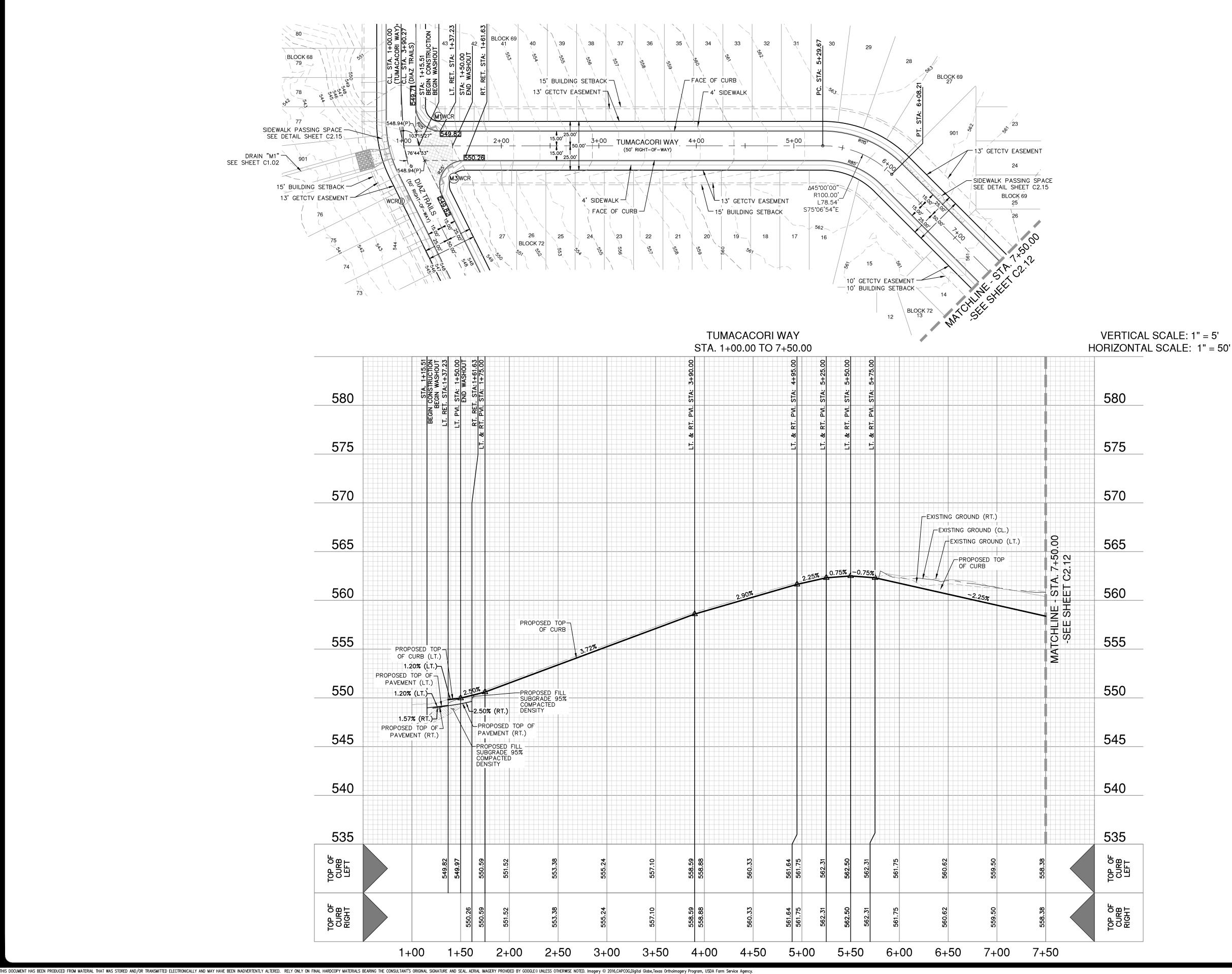


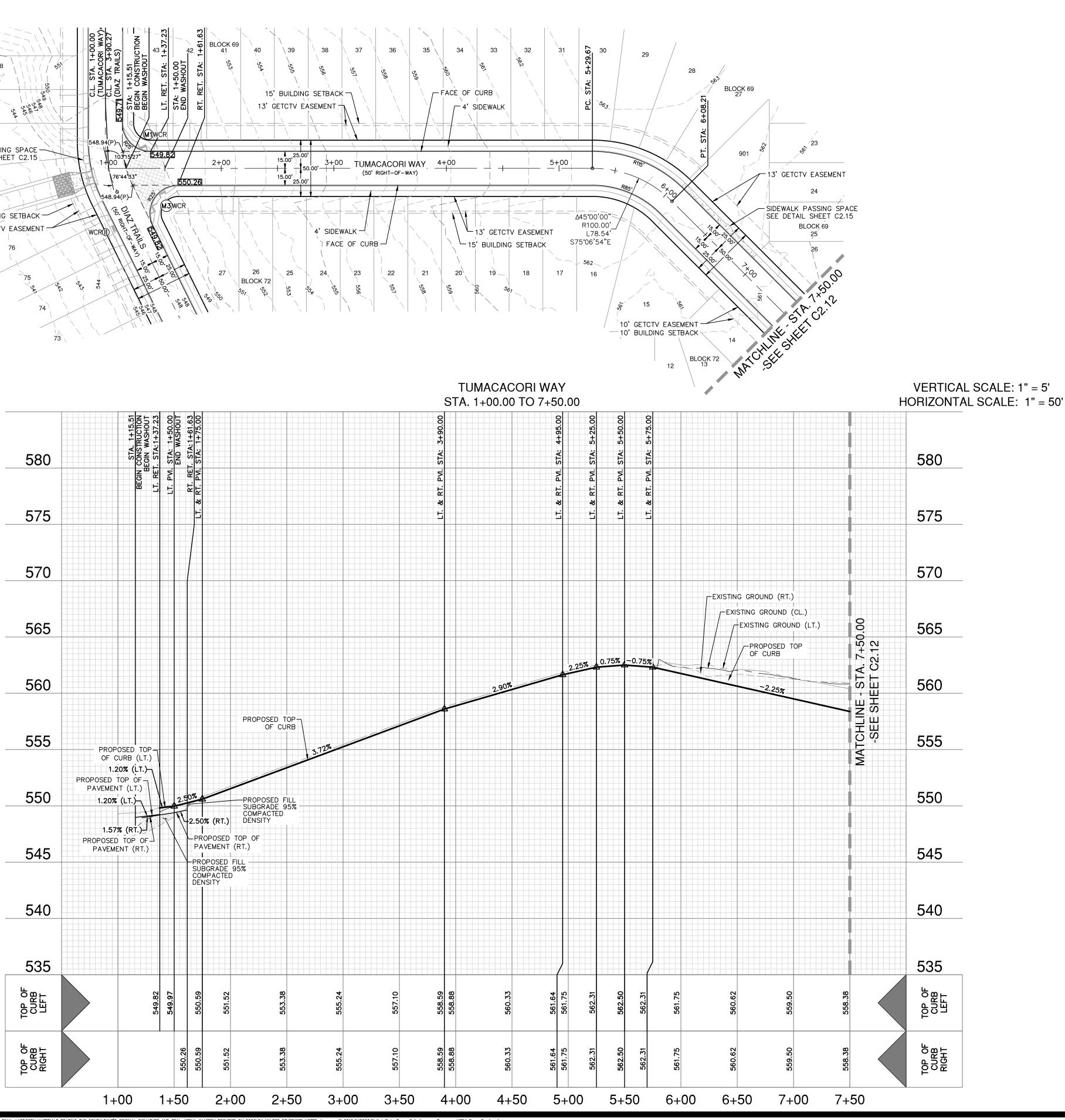


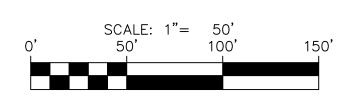












DANE W. WRIGHT

135314

315125

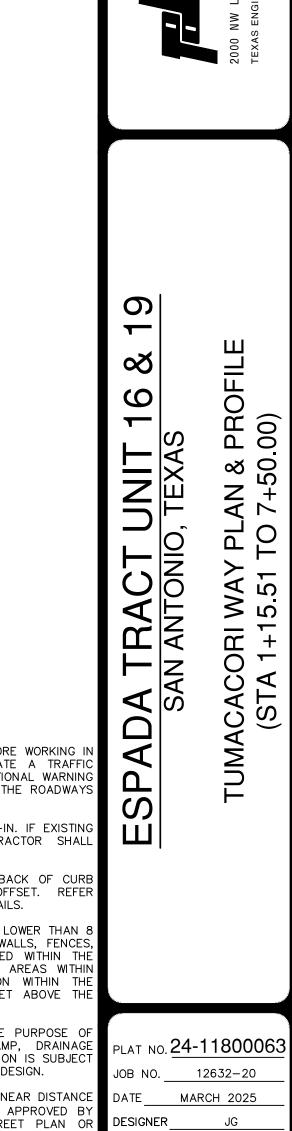
Dae Wrigh

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PAPE-DAWSO ENGINEERS

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	



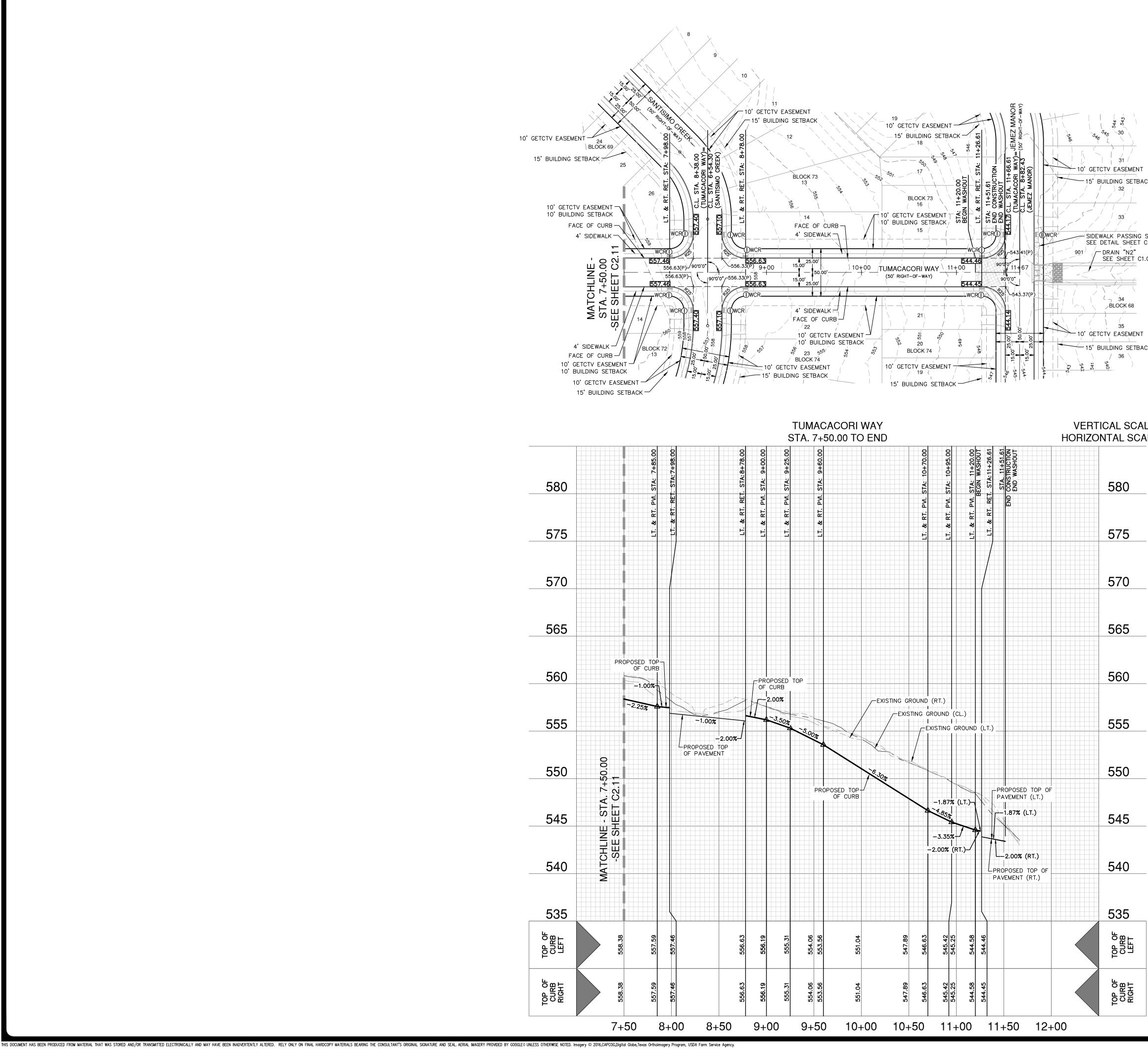
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C2.11

STREET NOTES:

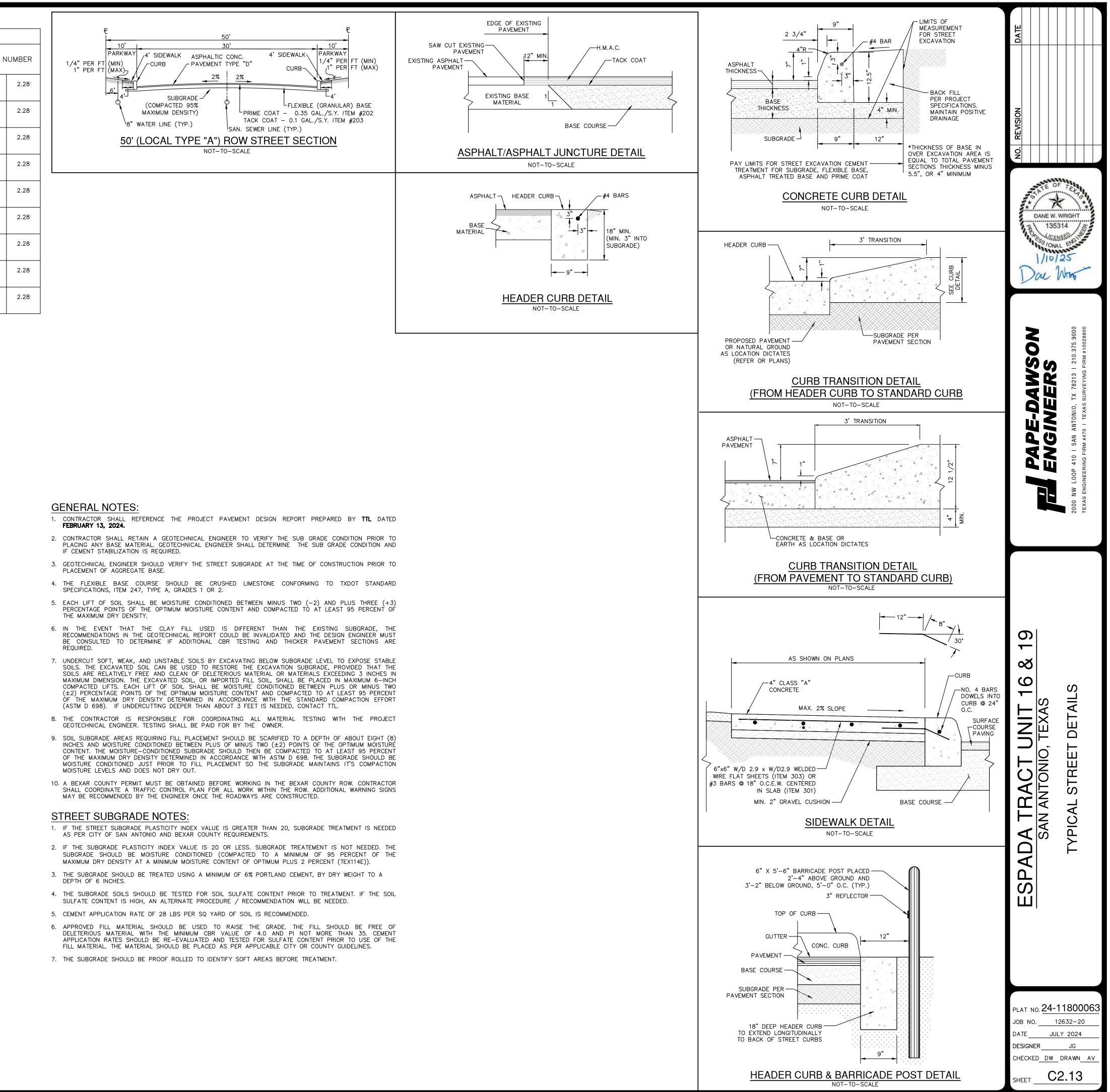
- 1. A BEXAR COUNTY ROW PERMIT MUST BE OBTAINED BEFORE WORKING I BEXAR COUNTY ROW. CONTRACTOR SHALL COORDINATE A TRAFFIC CONTROL PLAN FOR ALL WORK WITHIN THE ROW. ADDITIONAL WARNING SIGNS MAY BE RECOMMENDED BY THE ENGINEER ONCE THE ROADWAYS ARE CONSTRUCTED.
- 2. CONTRACTOR SHALL MATCH EXISTING PAVEMENT AT TIE-IN. IF EXISTING PAVEMENT ELEVATION DIFFERS SIGNIFICANTLY, CONTRACTOR SHALL NOTIFY THE ENGINEER PRIOR TO CONTINUING WORK.
- 3. SIDEWALKS SHALL BE CONSTRUCTED 3-FT FROM THE BACK OF CURB FOR ALL LOCATIONS WHERE THE SIDEWALK IS SHOWN OFFSET. REFER TO STREET DETAIL SHEET FOR SIDEWALK AND RAMP DETAILS.
- 4. NO PERMANENT STRUCTURES HIGHER THAN 3 FEET, AND LOWER THAN FEET ABOVE THE PAVEMENT, INCLUDING STRUCTURES, WALLS, FENCES, AND VEGETATION, SHALL BE CONSTRUCTED OR ALLOWED WITHIN TH CLEAR VISION EASEMENT. CONTRACTOR SHALL GRADE AREAS WITHIN CLEAR VISION EASEMENTS SUCH THAT THE ELEVATION WITHIN THE CLEAR VISION EASEMENT IS NOT HIGHER THAN 3 FEET ABOVE THE ADJACENT TOP OF PAVEMENT.
- 5. DRIVEWAYS SHOWN ON THIS PLAN ARE FOR THE SOLE PURPOSE OF INDICATING A POTENTIAL CONFLICT WITH CURB RAMP, DRAINAGE INFRASTRUCTURE, OR OTHER CONFLICT. DRIVEWAY LOCATION IS SUBJECT TO CHANGE BASED ON HOME SELECTION AND FINAL LOT DESIGN.
- 6. CHANGES IN THE SIDEWALK LOCATION FOR A MAXIMUM LINEAR DISTANCE OF TWO HUNDRED (200) FEET ARE PERMITTED TO BE APPROVED BY THE FIELD INSPECTOR WITHOUT AMENDING THE STREET PLAN OR UTILITY LAYOUT PER UDC SECTION 35-506 (Q)(6).
- 7. THE CONSTRUCTION OF SIDEWALKS ADJACENT TO ALL 900 SERIES LOTS WILL BE THE RESPONSIBILITY OF THE DEVELOPER AS SHOWN ON THE OVERALL SIGNAGE PLAN.

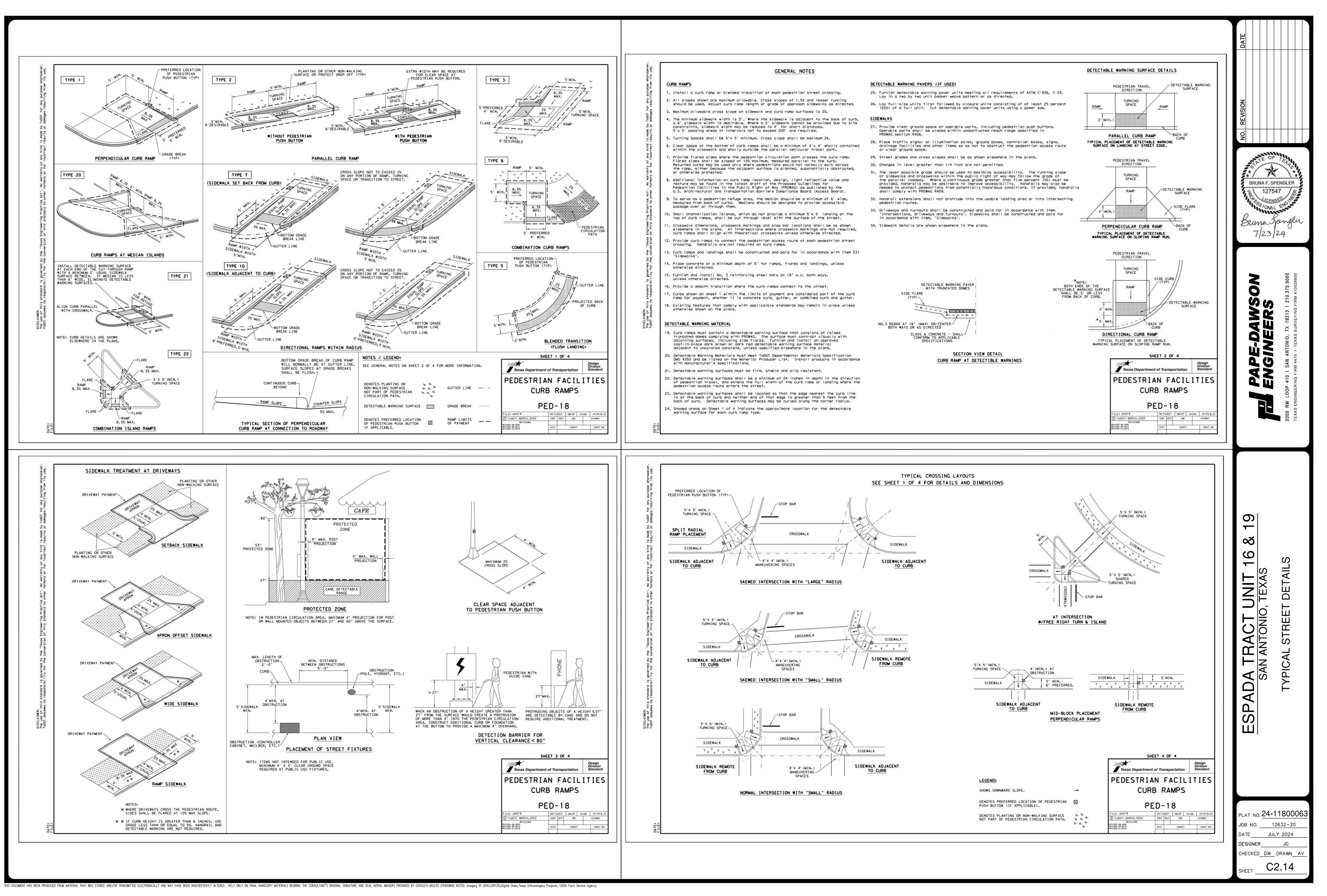


	SCALE: 1"= 0' 50'	50' 100' 150'	DATE	
	STREET LEGEND		N	
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	EXISTING CONTOUR	970	NO.	
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	TOP OF CURB SPOT ELEVATION PAVEMENT ELEVATION	857.30 857.00(P) ×	10/	25
S SPACE C2.15	WASHOUT CROWN SECTION SIDEWALK (HOMEOWNER'S RESPONSIBILITY		Davi	Noo
01.05	SIDEWALK (DEVELOPER'S RESPONSIBILITY)			100
	DRIVEWAY			000 800
			l õ	10.375.9 3М #10028
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	 A BEXAR COUNTY ROW PERMIT MUST I BEXAR COUNTY ROW. CONTRACTOR CONTROL PLAN FOR ALL WORK WITHIN SIGNS MAY BE RECOMMENDED BY THE ARE CONSTRUCTED. CONTRACTOR SHALL MATCH EXISTING I PAVEMENT ELEVATION DIFFERS SIGN NOTIFY THE ENGINEER PRIOR TO CONTII SIDEWALKS SHALL BE CONSTRUCTED FOR ALL LOCATIONS WHERE THE SIDE TO STREET DETAIL SHEET FOR SIDEWAL NO PERMANENT STRUCTURES HIGHER T FEET ABOVE THE PAVEMENT, INCLUDIN AND VEGETATION, SHALL BE CONSTR CLEAR VISION EASEMENT. CONTRACT CLEAR VISION EASEMENT SUCH TH CLEAR VISION EASEMENT IS NOT HIC ADJACENT TOP OF PAVEMENT. DRIVEWAYS SHOWN ON THIS PLAN AI INDICATING A POTENTIAL CONFLICT INFRASTRUCTURE, OR OTHER CONFLICT TO CHANGE BASED ON HOME SELECTIO CHANGES IN THE SIDEWALK LOCATION I OF TWO HUNDRED (200) FEET ARE I 	THE ROW. ADDITIONAL WARNING ENGINEER ONCE THE ROADWAYS PAVEMENT AT TIE-IN. IF EXISTING IIFICANTLY, CONTRACTOR SHALL NUING WORK. 3-FT FROM THE BACK OF CURB WALK IS SHOWN OFFSET. REFER K AND RAMP DETAILS. HAN 3 FEET, AND LOWER THAN 8 NG STRUCTURES, WALLS, FENCES, UCTED OR ALLOWED WITHIN THE OR SHALL GRADE AREAS WITHIN AT THE ELEVATION WITHIN THE SHER THAN 3 FEET ABOVE THE HER THAN 3 FEET ABOVE THE RE FOR THE SOLE PURPOSE OF WITH CURB RAMP, DRAINAGE DRIVEWAY LOCATION IS SUBJECT N AND FINAL LOT DESIGN. FOR A MAXIMUM LINEAR DISTANCE PERMITTED TO BE APPROVED BY MENDING THE STREET PLAN OR 506 (Q)(6).	PLAT NO. 24- JOB NO. 1 DATE JUL DESIGNER CHECKED DW	1800063 2632-20 Y 2024 JG

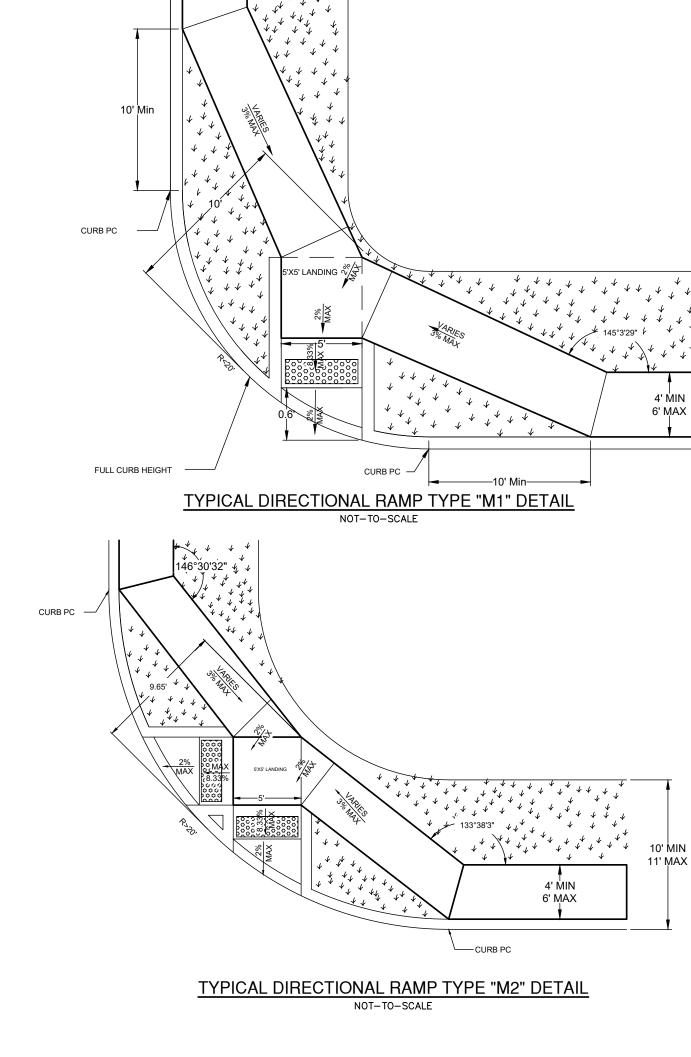
		PAV	EMENT SE	CTION DE	TAIL			
STREET NAME	STATION	TYPE "D" HMAC	TYPE "C" HMAC	GRANULAR BASE COURSE	CEMENT TREATED SUBGRADE	GEOGRID (TENSAR TRIAX TX5)	CBR	STRUCTURAL
SOCORRO RIDGE	1+45.00 TO END	2"	_	10"	6"	NO	4.0	2(.44) = 0.88 10(.14) = 1.4
PURISIMA CREEK	3+72.97 TO END	2"	_	10"	6"	NO	4.0	2(.44) = 0.88 10(.14) = 1.4
RAFAEL RIDGE	1+02.65 TO END	2"	_	10"	6"	NO	4.0	2(.44) = 0.88 10(.14) = 1.4
JEMEZ MANOR	1+00.00 TO END	2"	_	10"	6"	NO	4.0	2(.44) = 0.88 10(.14) = 1.4
DIAZ TRAILS	1+15.00 TO END	2"	_	10"	6"	NO	4.0	$2(.44) = 0.88 \\ 10(.14) = 1.4$
SANTISIMO CREEK	1+16.73 TO END	2"	_	10"	6"	NO	4.0	$2(.44) = 0.88 \\ 10(.14) = 1.4$
SANDIA COVE	1+15.00 TO END	2"	_	10"	6"	NO	4.0	2(.44) = 0.88 10(.14) = 1.4
ROSALIA TRAIL	1+15.00 TO END	2"	_	10"	6"	NO	4.0	$2(.44) = 0.88 \\ 10(.14) = 1.4$
TUMACACORI WAY	1+15.51 TO END	2"	_	10"	6"	NO	4.0	2(.44) = 0.88 10(.14) = 1.4

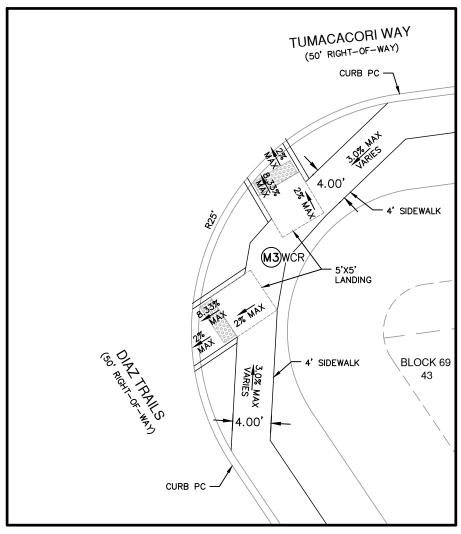
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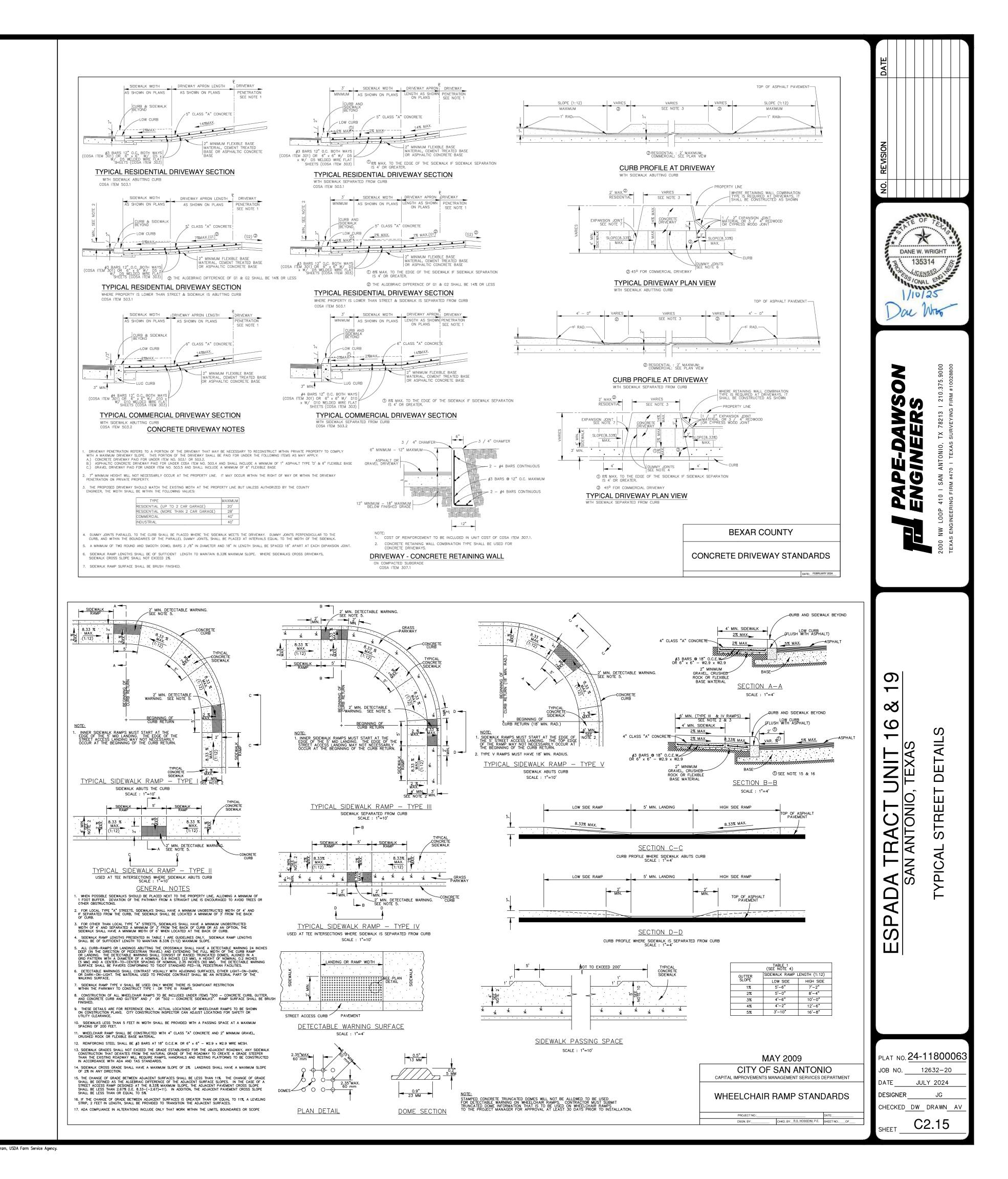


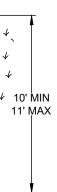
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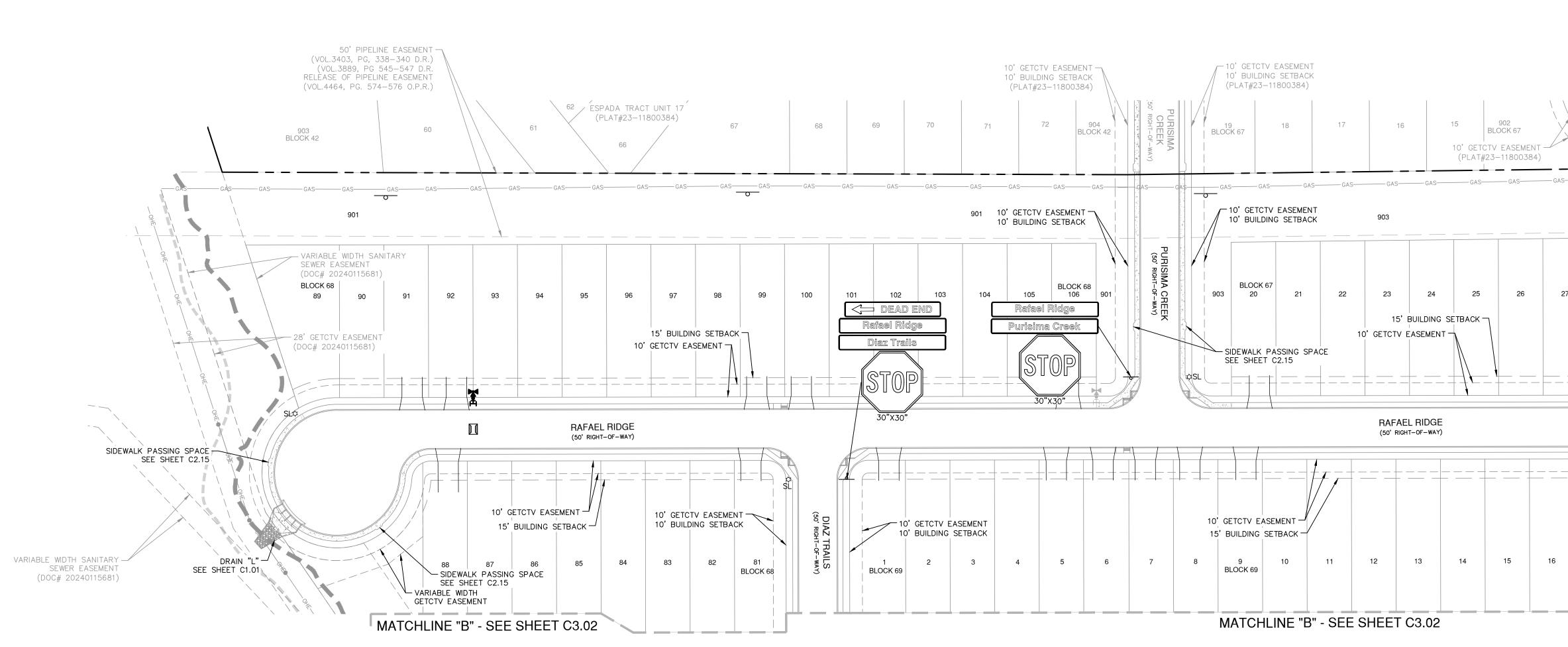


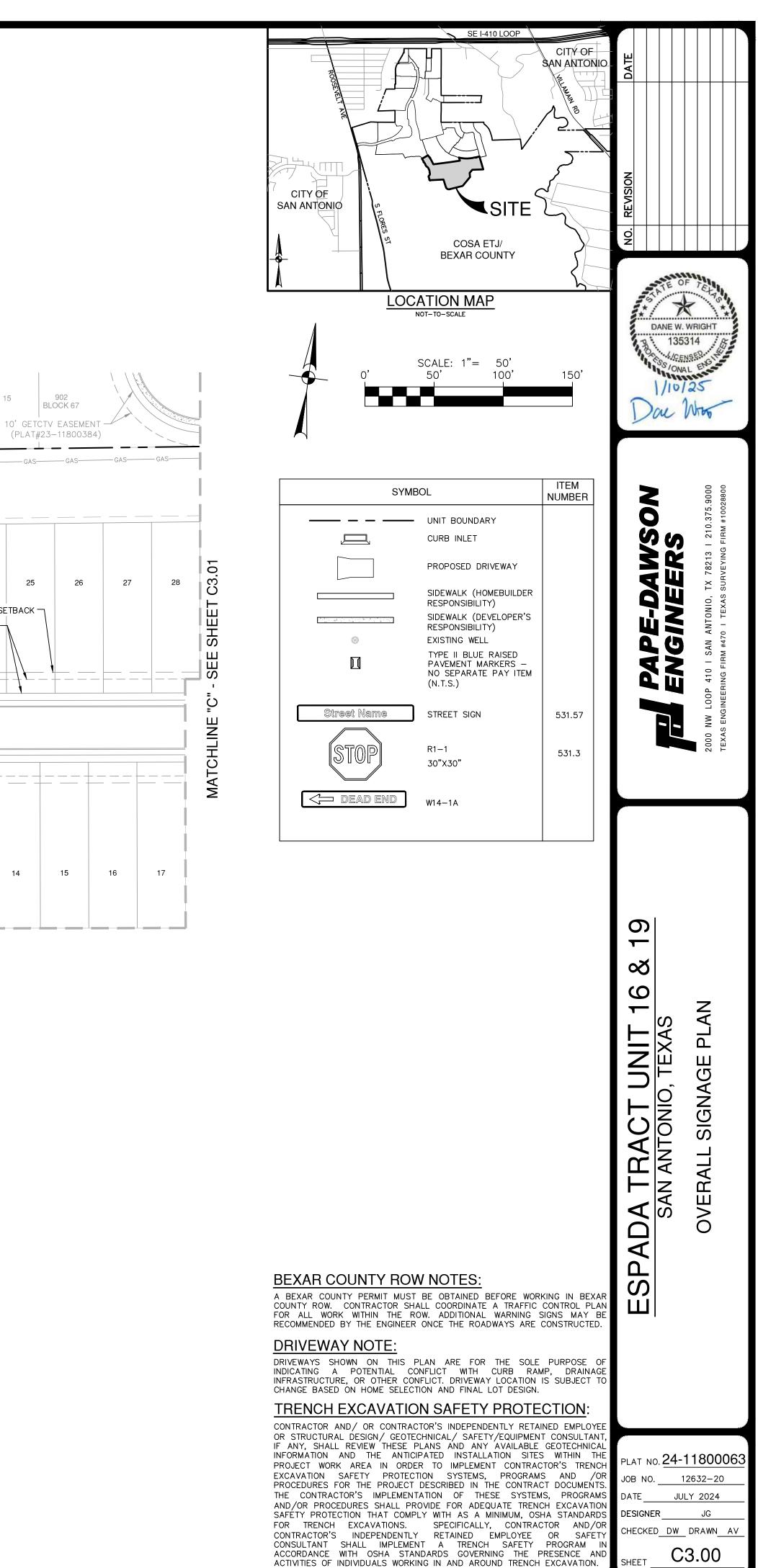
DIRECTIONAL RAMP TYPE "M3" DETAIL SCALE: 1"=10'

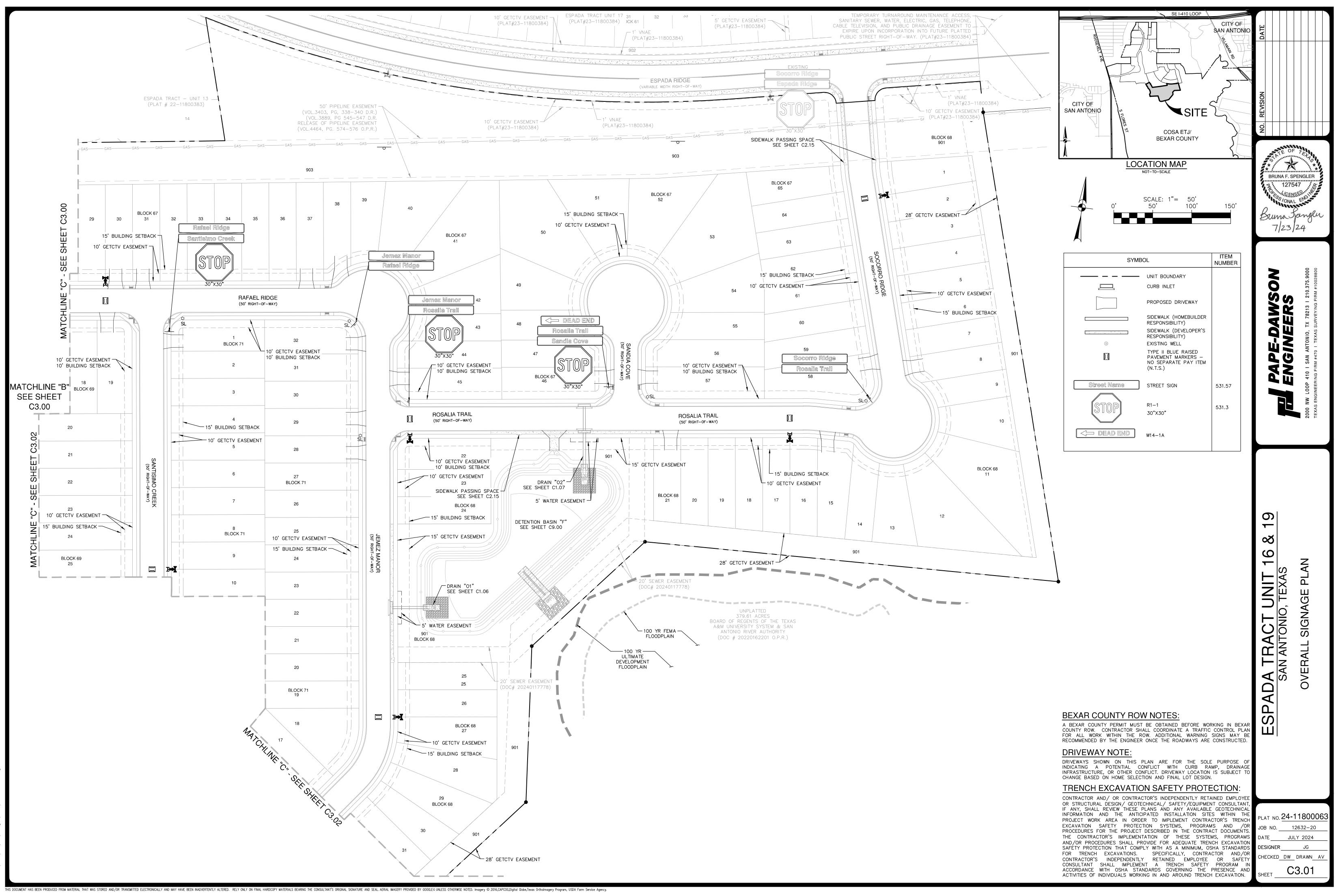




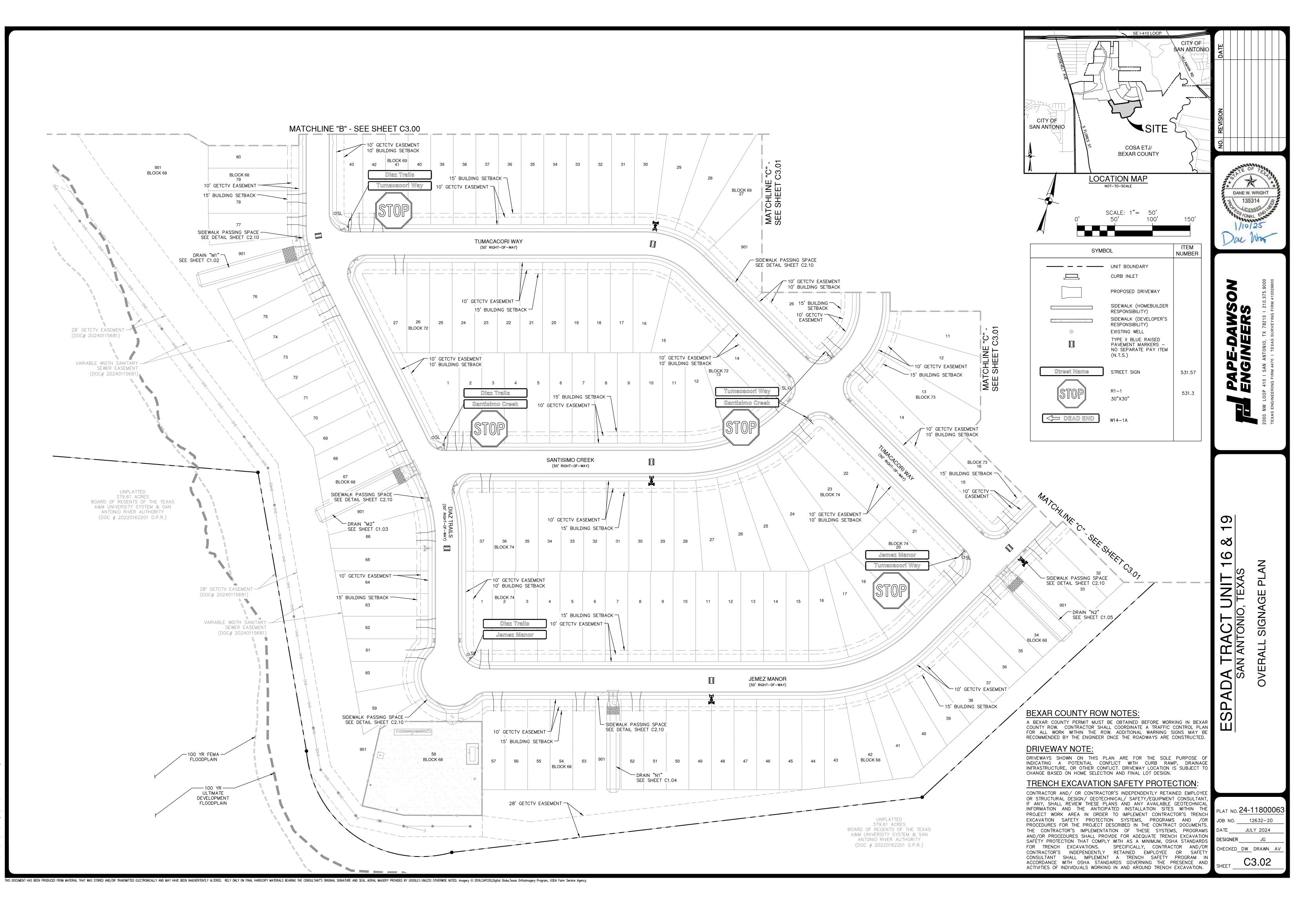
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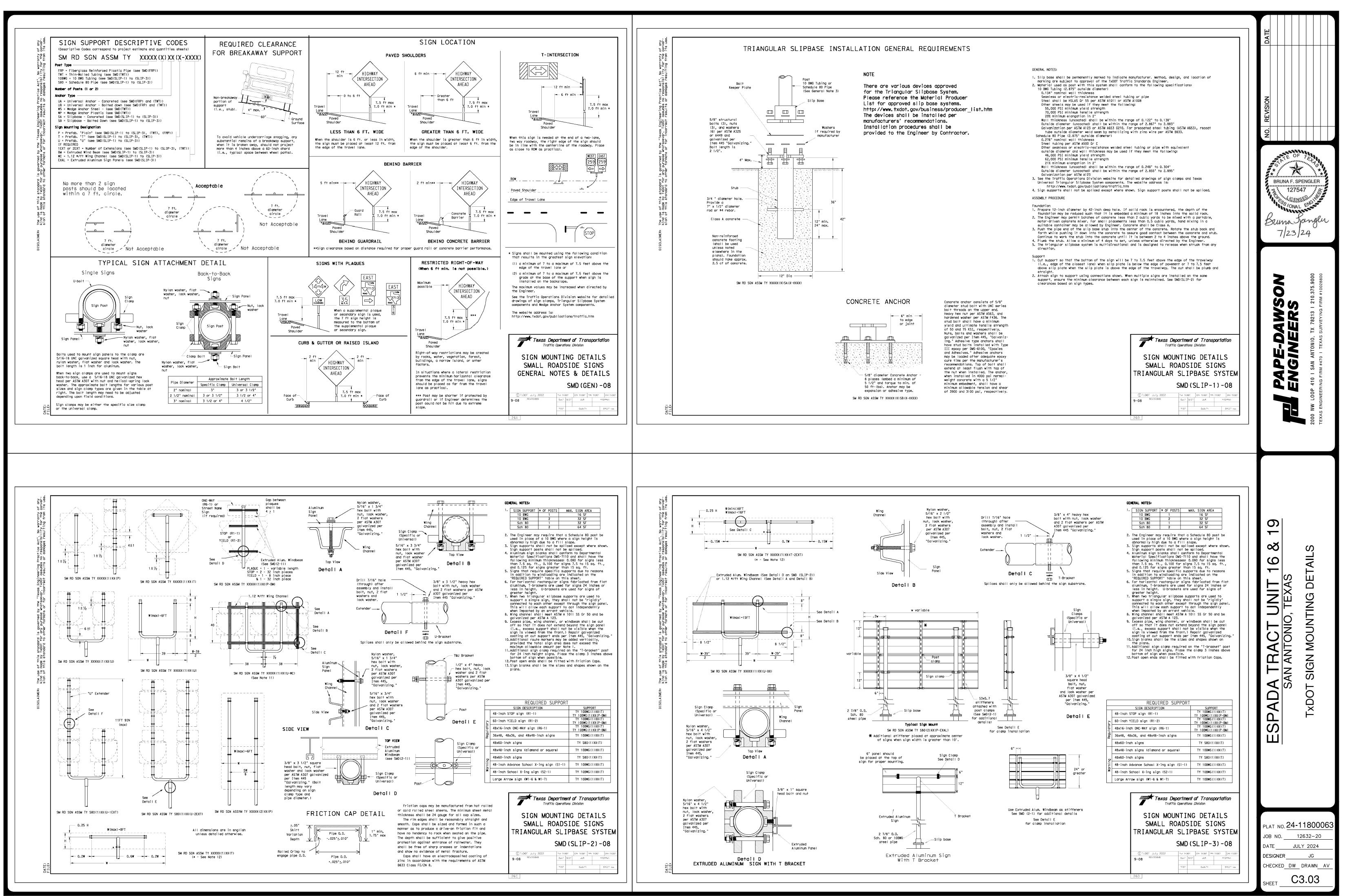




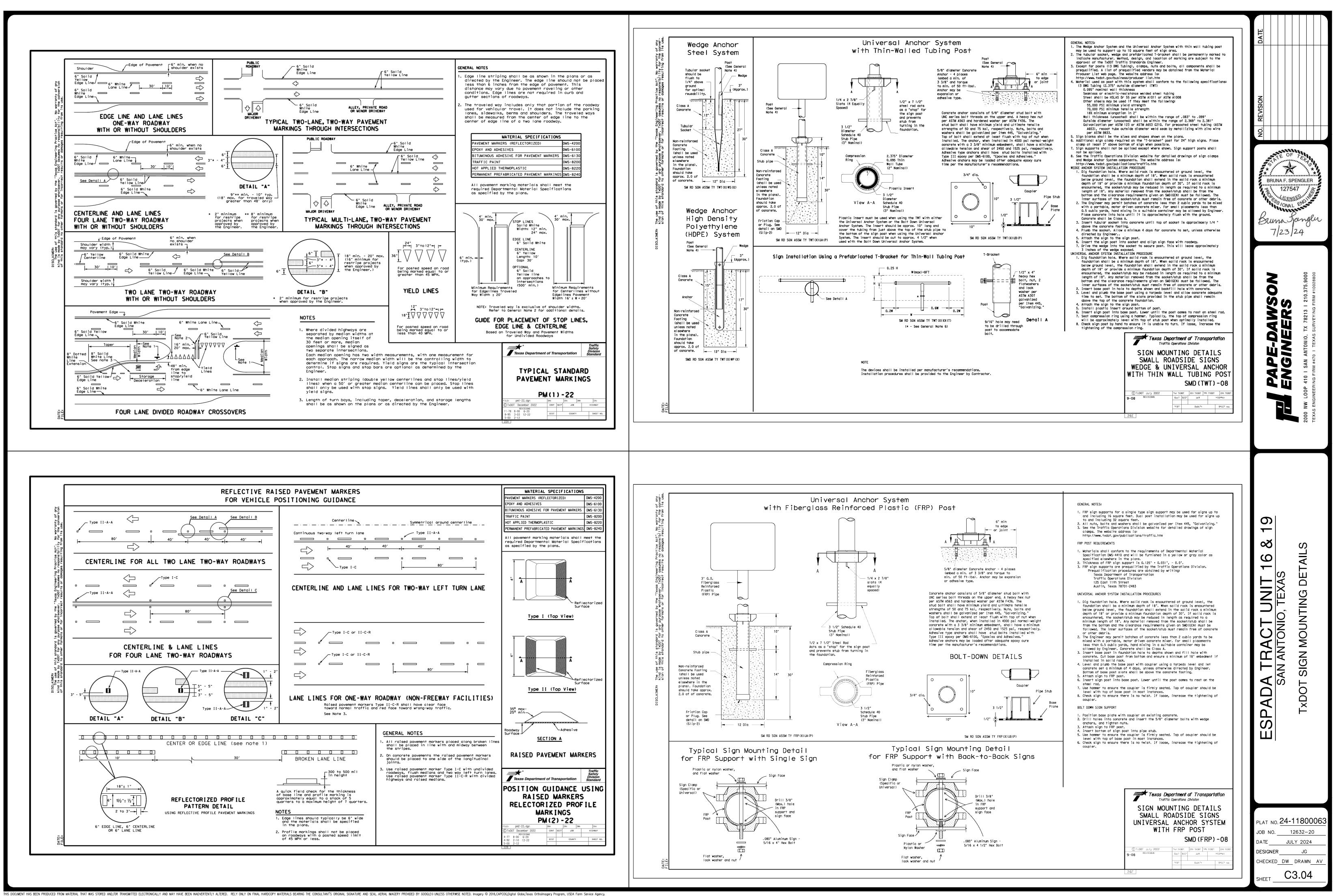
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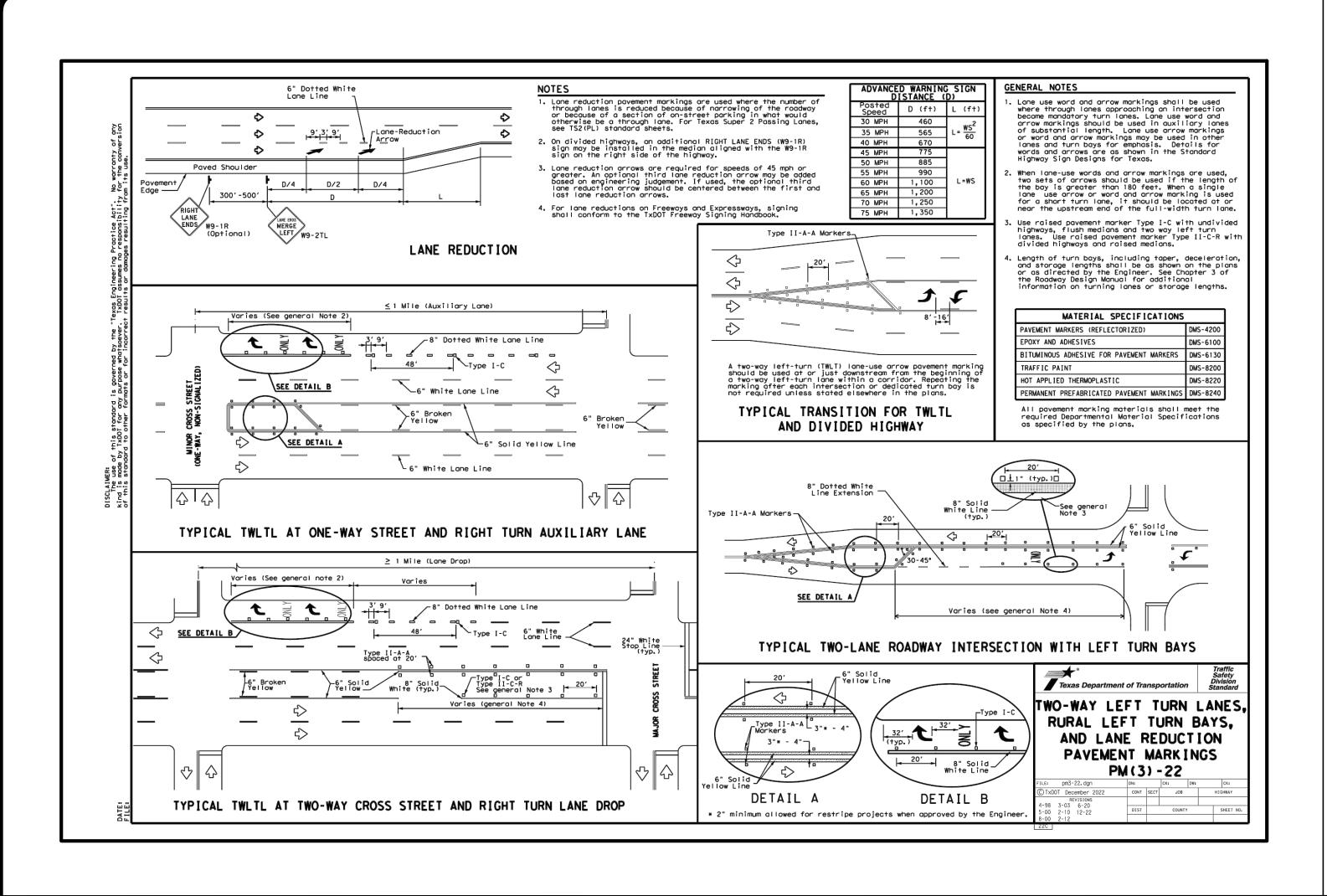
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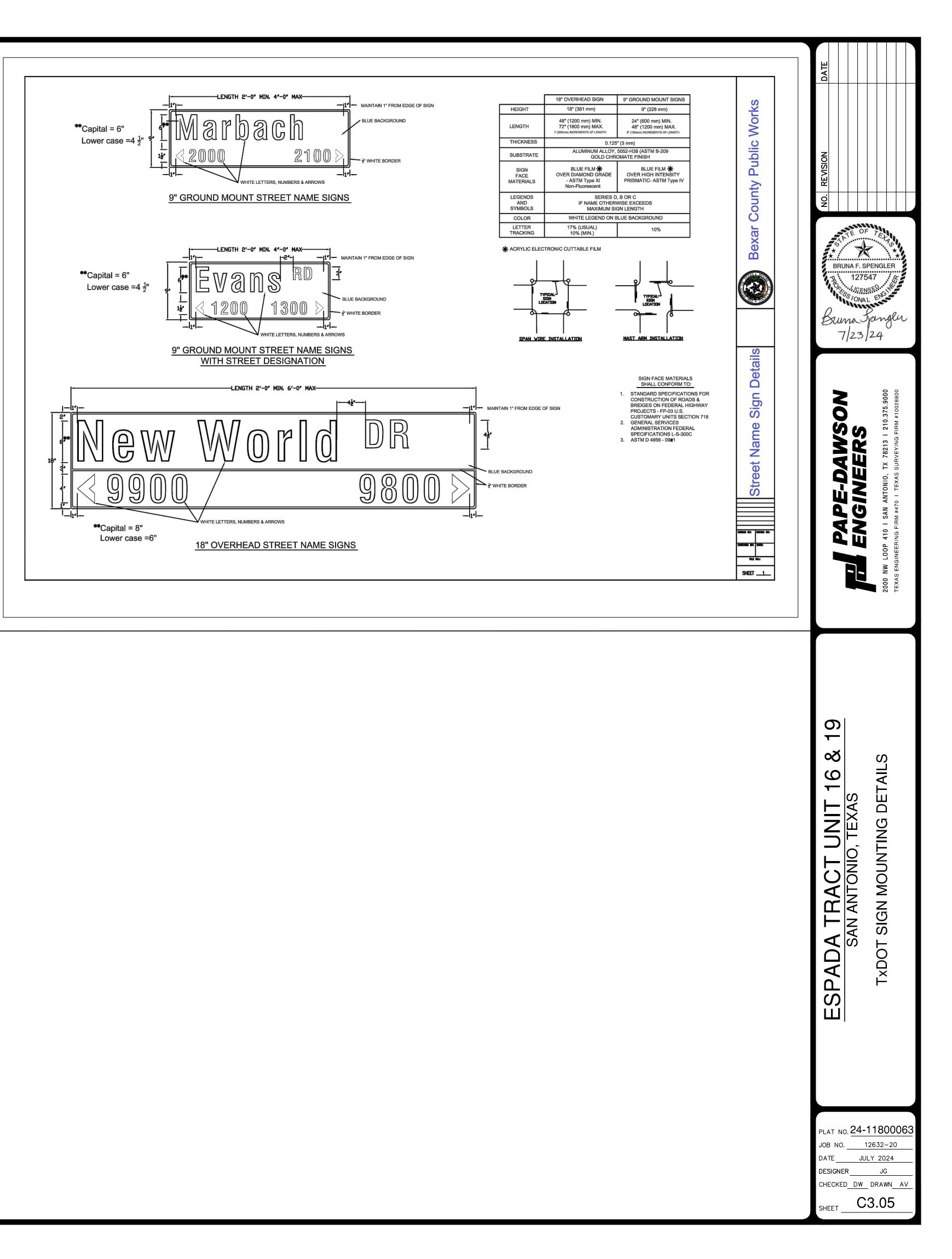
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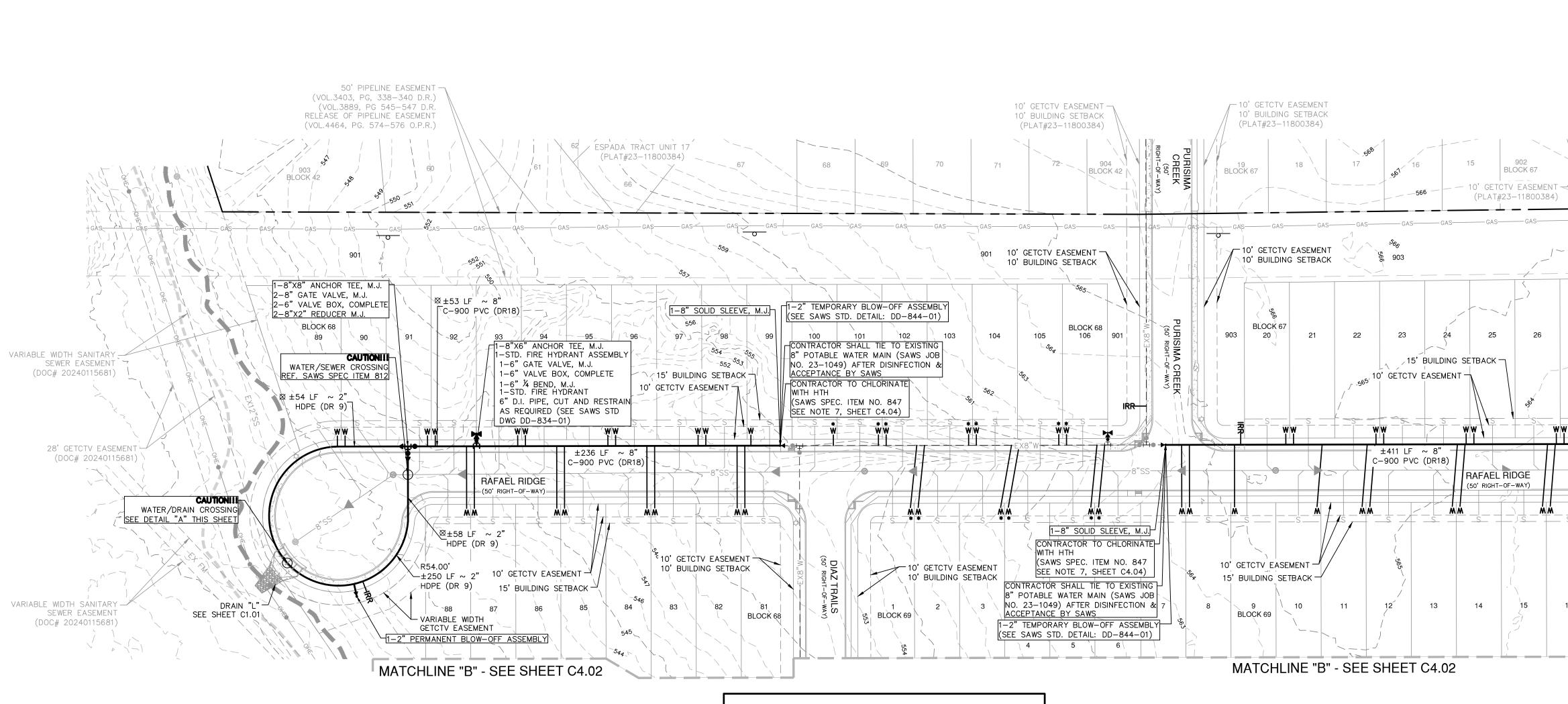


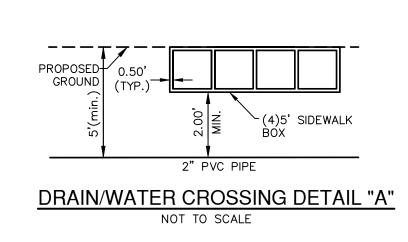
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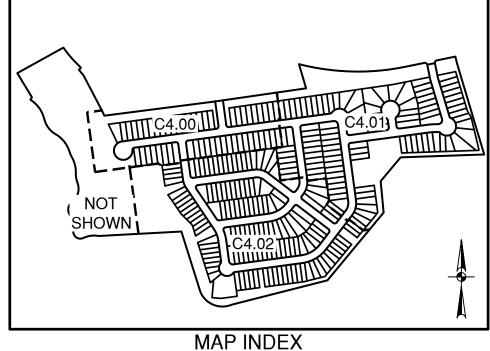
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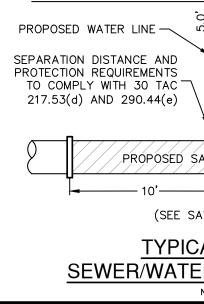


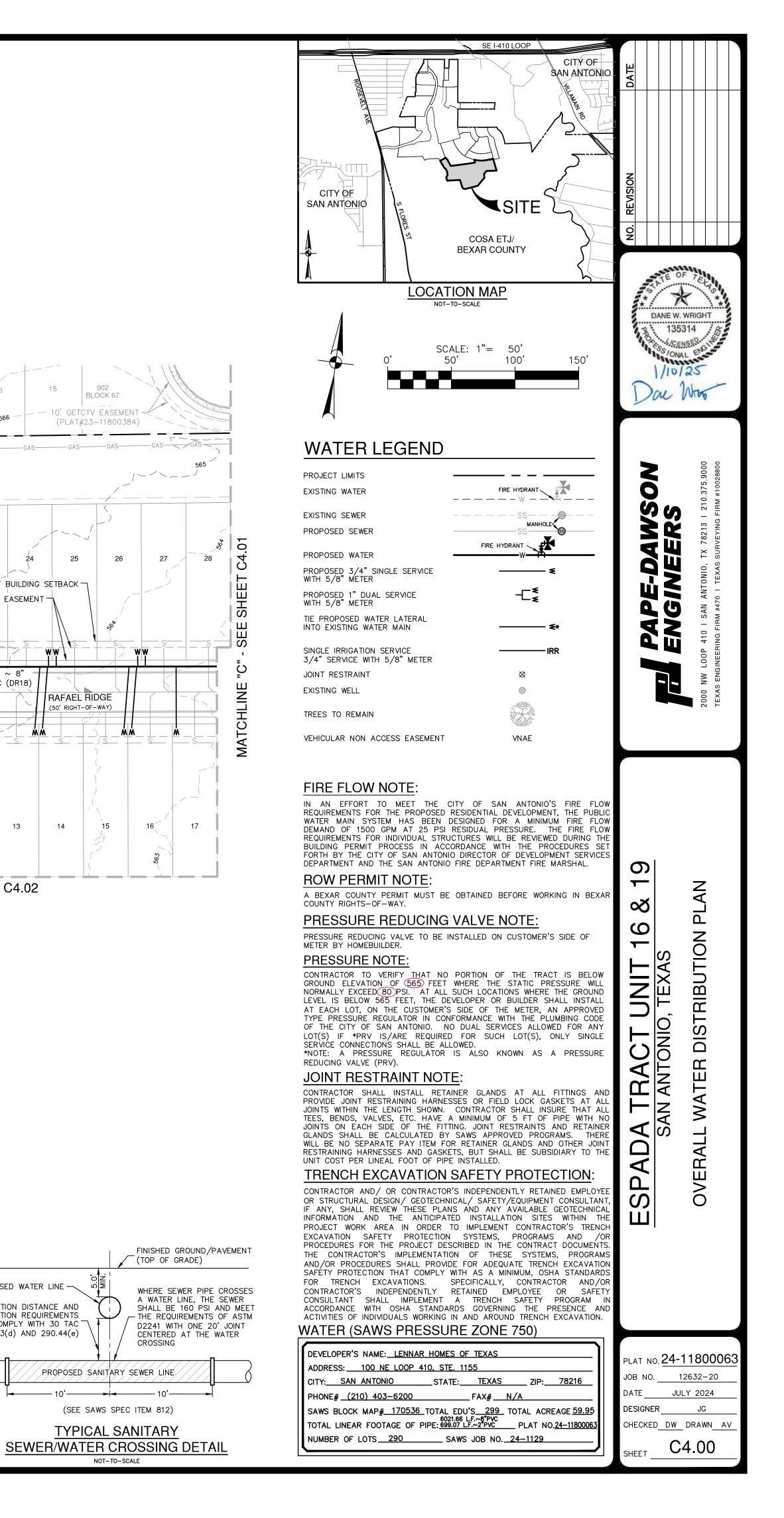


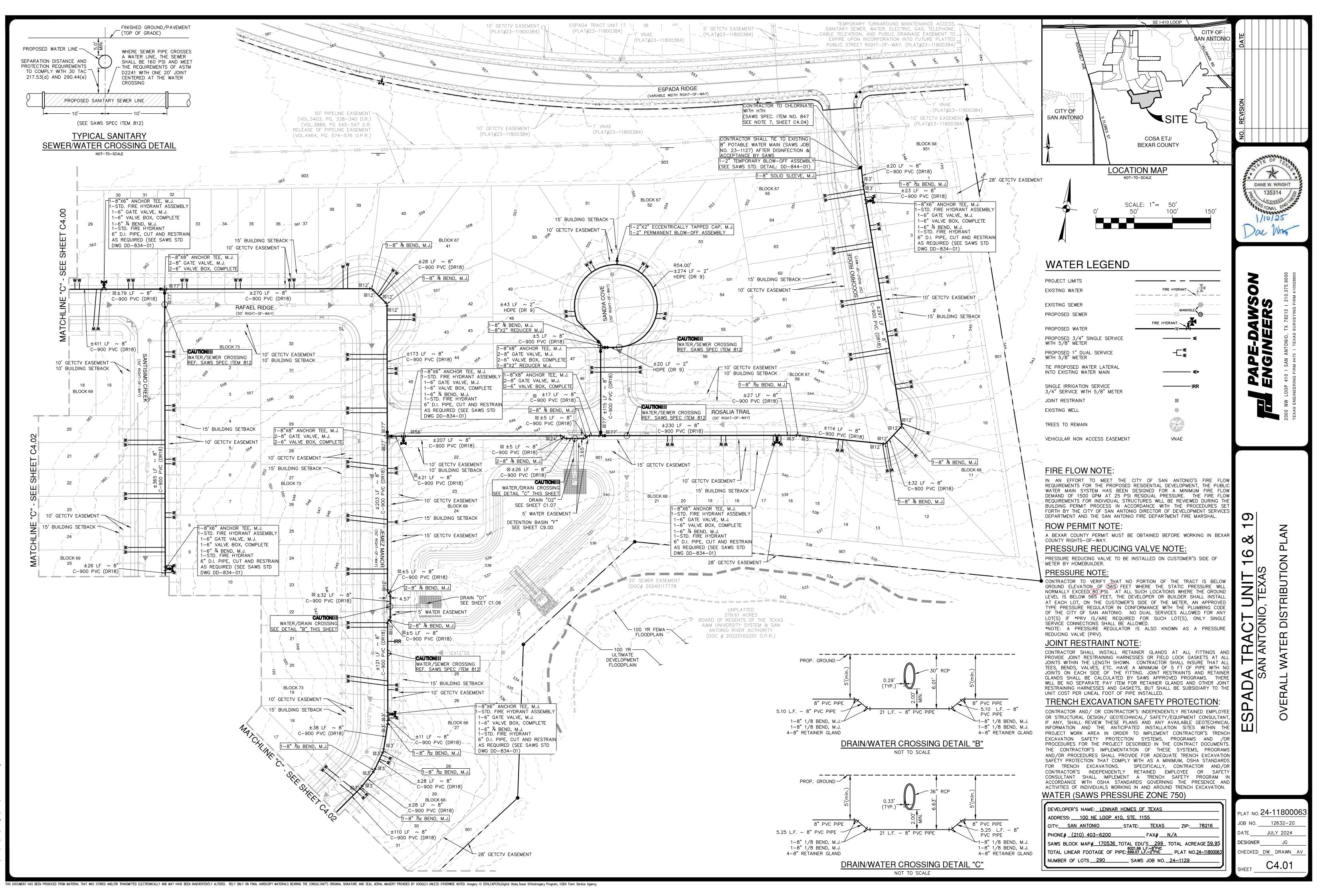
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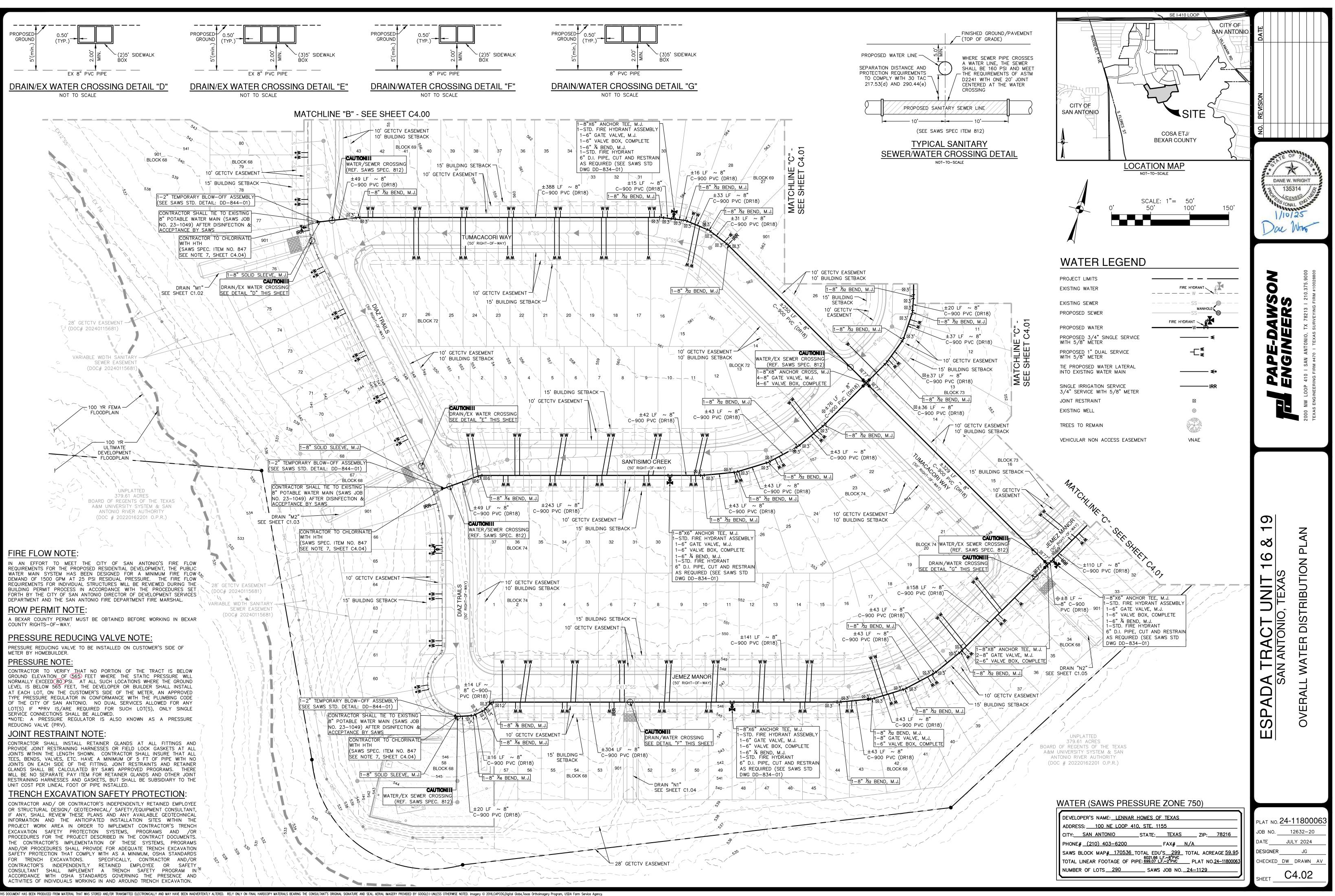
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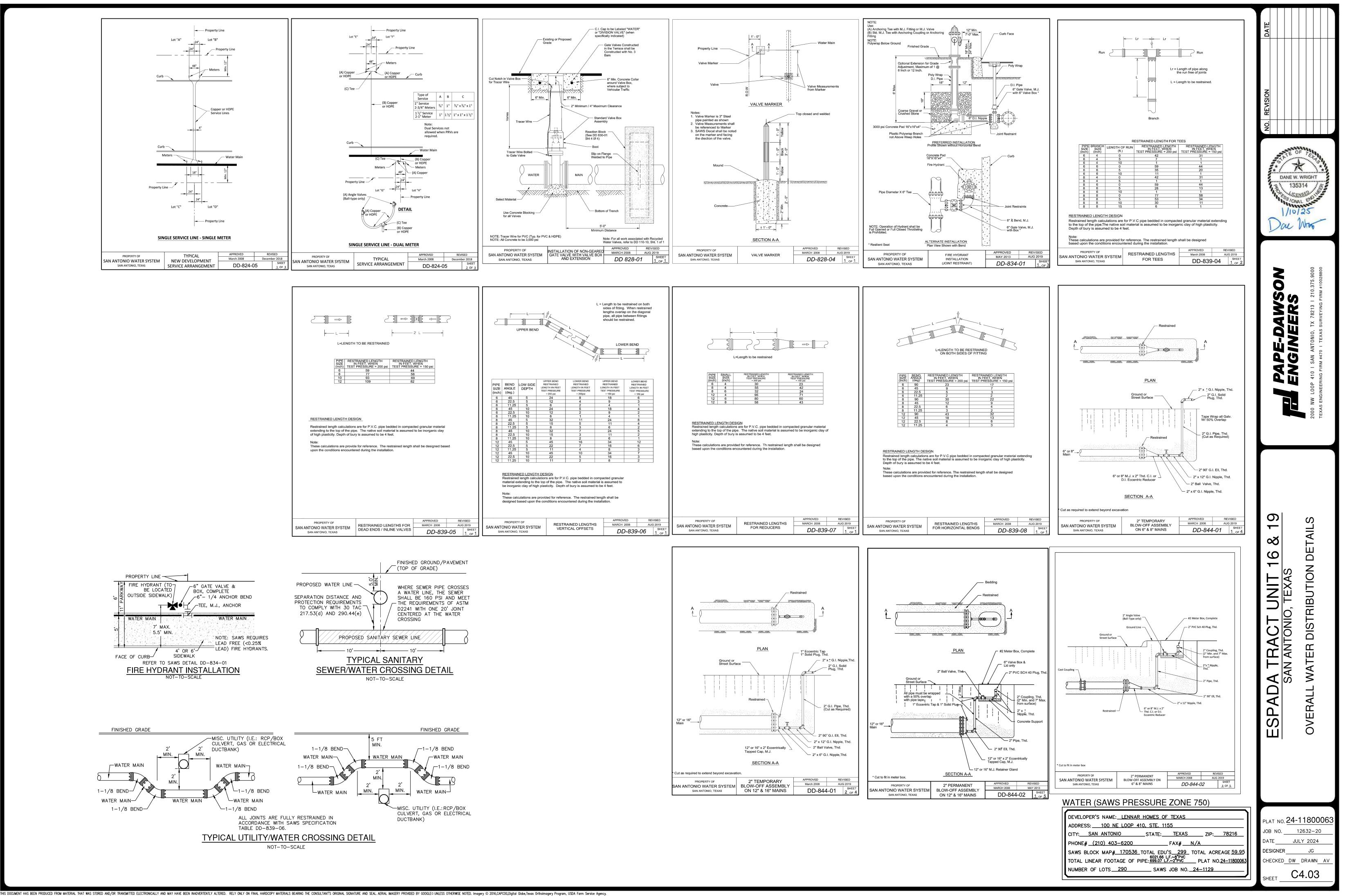


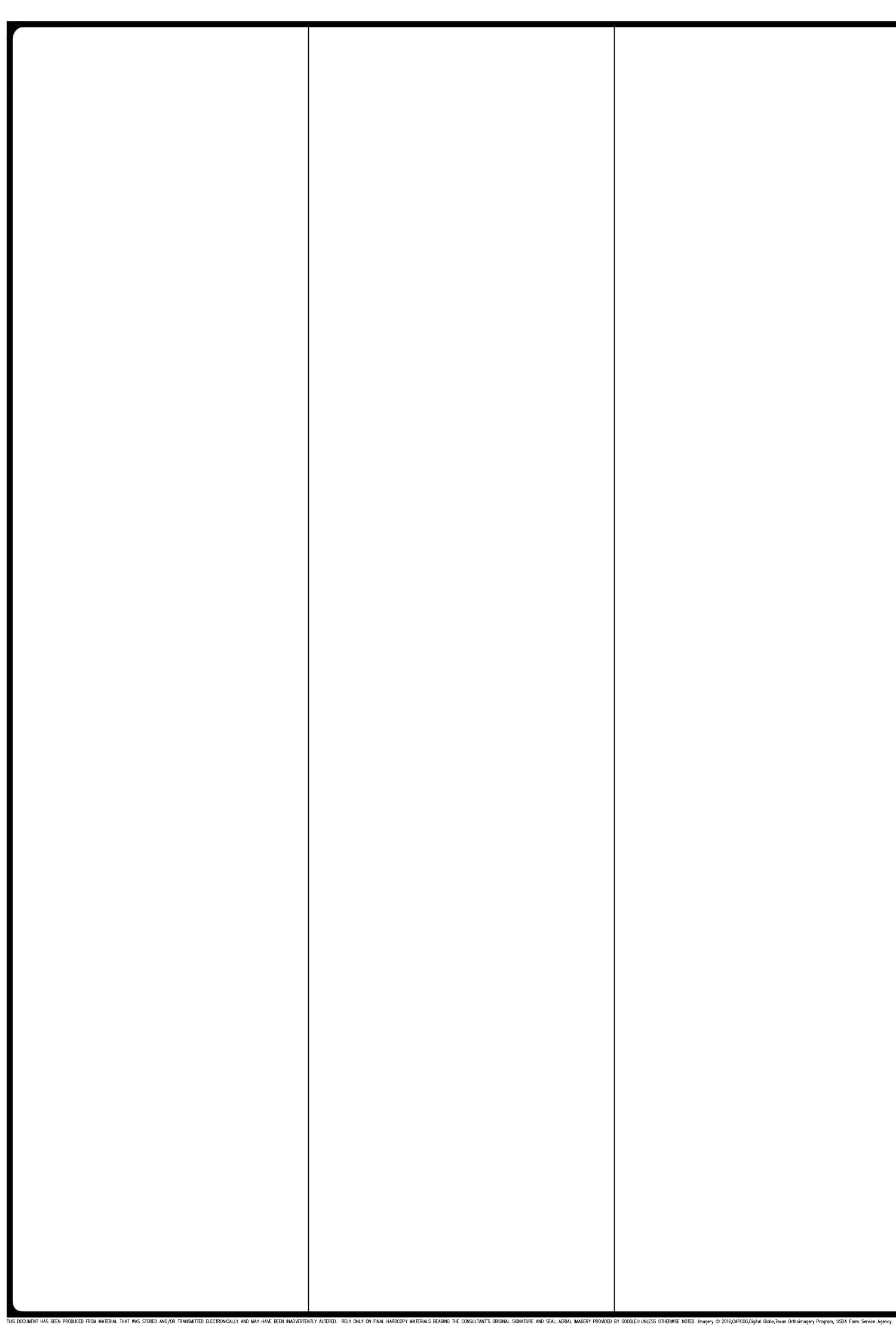




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SAWS CONSTRUCTION NOTES

(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 CENTER (210) 233-2014 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.
- 9. 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 TO CONSTWORKREQ@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@SAWS.ORG.
- ANY AND ALL SAWS UTILITY WORK INSTALLED WITHOUT HOLIDAY/WEEKEND APPROVAL WILL BE SUBJECT TO BE UNCOVERED FOR PROPER INSPECTION.
- 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

- SPECIFICATION FOR HANDLING ASBESTOS CEMENT PIPE".
- VALVE REMOVAL: WHERE THE CONTRACTOR IS TO ABANDON A WATER MAIN. REMOVED AND REPLACED WITH A CAP/PLUG. (NSPI)
- STANDARD SPECIFICATIONS FOR CONSTRUCTION.
- ALL VALVES SHALL READ "OPEN RIGHT".
- 6. PRVS REQUIRED: CONTRACTOR TO VERIFY THAT NO PORTION OF THE TRACT (PRV)
- PROTECT HIS PERSONNEL DURING DISINFECTION OPERATIONS.
- 8. BACKFLOW PREVENTION DEVICES:
- HAVE BACKFLOW PREVENTION DEVICES. BY SAWS PRIOR TO INSTALLATION.
- SAWS HAS RELEASED THE MAIN FOR TIE-IN AND USE.
- BREACH OF ANY WRITTEN SAWS CONTRACT OR PERMIT IN ADDITION TO SUBJECTING THE CONTRACTOR TO LIABILITY FOR ANY AND ALL FINES, FEES
- 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

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

THE CONTROL VALVE LOCATED ON THE ABANDONING BRANCH WILL BE

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

IS BELOW GROUND ELEVATION OF 565 FEET WHERE THE STATIC PRESSURE WILL NORMALLY EXCEED 80 PSI. AT ALL SUCH LOCATIONS WHERE THE GROUND LEVEL IS BELOW 565 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: PRESSURE REGULATOR IS ALSO KNOWN AS A PRESSURE REDUCING VALVE

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

• ALL IRRIGATION SERVICES WITHIN RESIDENTIAL AREAS ARE REQUIRED TO ALL COMMERCIAL BACKFLOW PREVENTION DEVICES MUST BE APPROVED

UNTIL THE WATER MAIN HAS BEEN PRESSURE TESTED, CHLORINATED, AND

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 A DIVISION VALVE WITHOUT THE EXPRESS PRIOR WRITTEN APPROVAL OF THE SAWS DISTRIBUTION AND COLLECTION STAFF WILL CONSTITUTE A MATERIAL

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

PROJECT WATER NOTES

- ALL 8", 12" AND 16" PIPE SHALL BE P.V.C. C-900 CLASS 235 DR 18.
- 3. ALL MAINS SHALL BE HYDROSTATICALLY TESTED BY THE CONTRACTOR, PROVIDED FOR IN THE SPECIAL CONDITIONS.
- THE WATER LINES WILL BE SET FROM THE STREET HUBS BEFORE T CONTRACT BEGINS. STREET CUT SHEETS WILL BE SUPPLIED TO CONTRACTOR. THERE SHOULD BE NO ADDITIONAL STAKES REQUIRED, AND SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO INSPECT THE SITE A VERIFY THAT ALL STAKES REQUIRED FOR HIS WORK ARE IN PLACE AT TIME THE CONSTRUCTION BEGINS. IF ANY STAKES ARE MISSING 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 TI 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 THE CONTRACTOR SO THE METER BOXES CAN BE SET IN PHASE II. ANY L CORNER DESTROYED OR REMOVED BY THE CONTRACTOR, HIS EMPLOYEES, BY ANY OTHER MEANS SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSI
- STREETS WILL HAVE BEEN EXCAVATED DOWN TO SUBGRADE AND TI 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 FRO FACE OF CURB TO CENTER OF THE METER BOX.
- . ALL GARBAGE OR SPOIL MATERIAL FROM THIS WORK SHALL BE REMOVEI FROM THE SITE BY THE CONTRACTOR, AT HIS EXPENSE.
- 10. 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 INCLUD FIRE HYDRANT, 6-INCH GATE VALVE AND 6-INCH VALVE BOX COMPLE 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. THI AREA SHOULD HAVE A MINIMUM DIAMETER OF 3.0' AND BE CLEAN VERTICAL OBSTRUCTIONS, VALVES, AND METER BOXES.
- FINAL CONNECTION TO THE EXISTING WATER MAIN SHALL NOT BE MADE 14. SAWS REQUIRES LEAD FREE (< 0.25%) FIRE HYDRANTS.
 - 15. UNLESS OTHERWISE NOTED ALL SERVICES SHALL BE 3/4" WITH 5/8" METER

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	ESPADA TRACT UNIT 16 & 19 SAN ANTONIO, TEXAS OVERALL WATER DISTRIBUTION NOTES
	PLAT NO. 24-11800063 JOB NO. <u>12632–20</u>

JULY 2024

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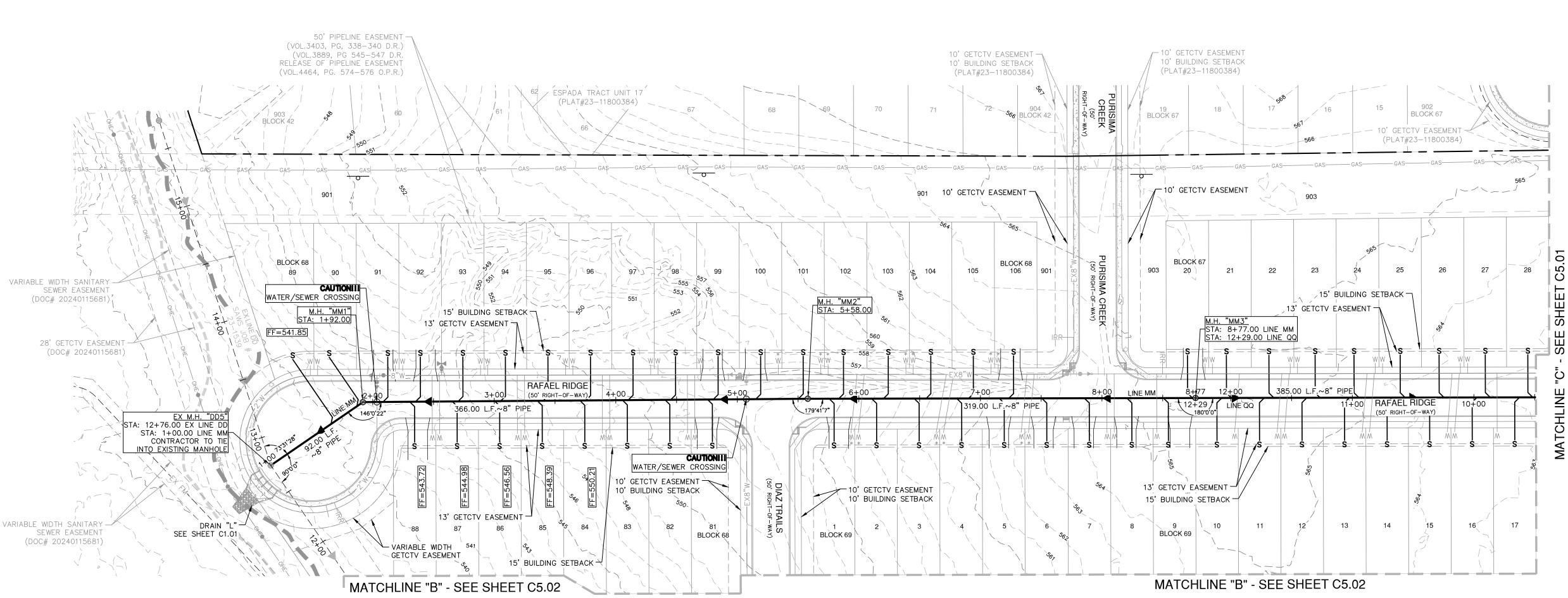
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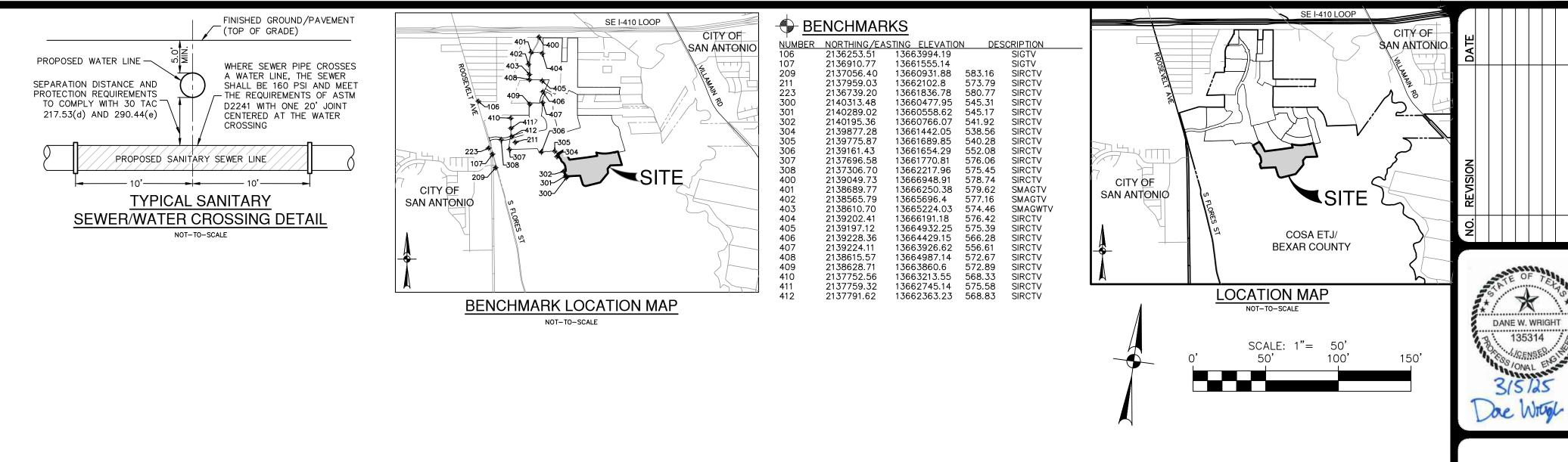
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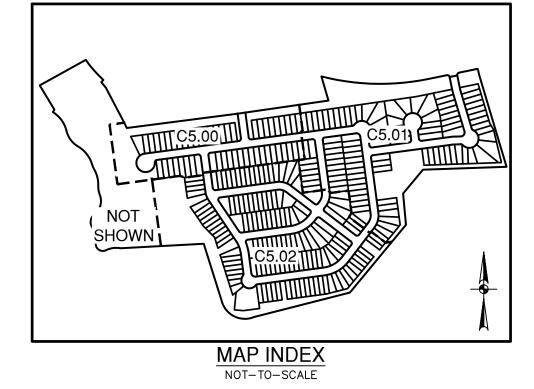
SHEET

WATER (SAWS PRESSURE ZONE 750)

DEVELOPER'S NAME: LENNAR HOMES OF TEXAS
ADDRESS: 100 NE LOOP 410, STE. 1155
CITY: SAN ANTONIO STATE: TEXAS ZIP: 78216
PHONE# (210) 403-6200 FAX# N/A
SAWS BLOCK MAP# 170536 TOTAL FDU'S 299 TOTAL ACREAGE 59.
SAWS BLOCK MAP# <u>170536</u> TOTAL EDU'S <u>299</u> TOTAL ACREAGE 59. 6021.66 L.F.~8"PVC TOTAL LINEAR FOOTAGE OF PIPE: <u>699.07 L.F.~2"PVC</u> PLAT NO.24–11800
NUMBER OF LOTS 290 SAWS JOB NO. 24-1129

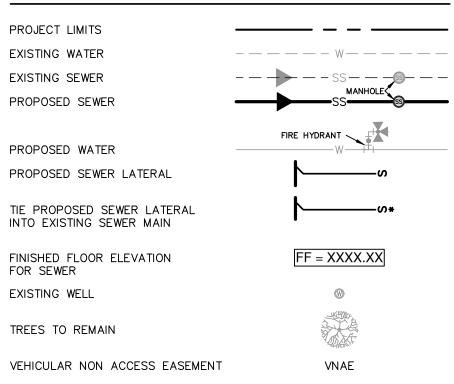






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SEWER LEGEND





CAUTION!!

CONTRACTOR SHALL BE REQUIRED TO LOCATE ALL PUBLIC OR PRIVATE UTILITIES INCLUDING BUT NOT LIMITING TO: WATER, SEWER, TELEPHONE AND FIBER OPTIC LINES, SITE LIGHTING ELECTRIC, SECONDARY ELECTRIC, PRIMARY ELECTRICAL DUCTBANKS, LANDSCAPE IRRIGATION FACILITIES, AND GAS LINES. ANY UTILITY CONFLICTS THAT ARISE SHOULD BE COMMUNICATED TO THE ENGINEER IMMEDIATELY AND PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL CONTACT 1-800-DIG-TESS A MINIMUM OF 48 HOURS PRIOR TO THE START OF CONSTRUCTION. ANY DAMAGE TO EXISTING UTILITIES SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR AND THE REPAIR SHALL BE AT CONTRACTOR'S SOLE EXPENSE WHETHER THE UTILITY IS SHOWN ON THESE PLANS OR NOT.

FINISHED FLOOR NOTES:

- 1. THE FINISHED FLOOR ELEVATIONS (FF) REPRESENT THE MINIMUM POSSIBLE FLOOR ELEVATION TO PROVIDE SANITARY SEWER SERVICE TO EACH LOT. ACTUAL FINISHED FLOOR ELEVATIONS FOR EACH LOT ARE TO BE DETERMINED BY THE BUILDER AND SHALL TAKE INTO CONSIDERATION AS-BUILT CONDITIONS FOR FOUND SEWER SERVICES AND ACTUAL LATERAL PLACEMENT. IT IS THE BUILDER'S SOLE RESPONSIBILITY TO DETERMINE ACTUAL FINISHED FLOOR ELEVATIONS FOR EACH LOT PRIOR TO THE START OF HOME FOUNDATION CONSTRUCTION TAKING INTO CONSIDERATION SITE DRAINAGE, STREET ACCESS AND SANITARY SEWER SERVICE ELEVATIONS.
- 2. THE MINIMUM SANITARY SEWER LATERAL GRADES WERE BASED UPON THE MINIMUM FINISHED FLOOR ELEVATIONS FOR THE LOTS LOCATED ON THE DOWNHILL SIDES OF THE PROPOSED ROADWAYS.

ROW PERMIT NOTE:

A BEXAR COUNTY PERMIT MUST BE OBTAINED BEFORE WORKING IN BEXAR COUNTY RIGHTS-OF-WAY.

TRENCH EXCAVATION SAFETY PROTECTION:

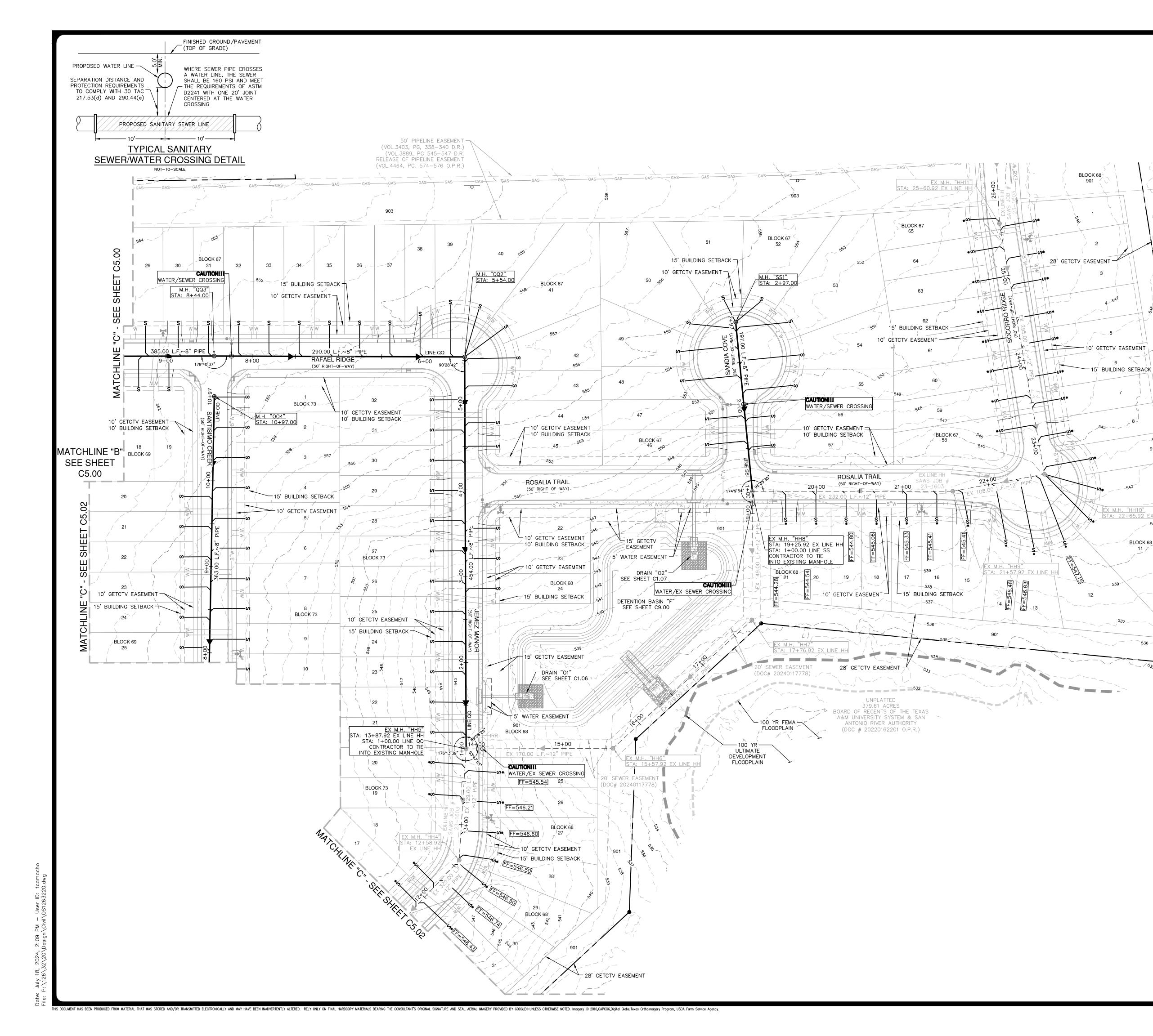
CONTRACTOR AND/ OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR STRUCTURAL DESIGN/ GEOTECHNICAL/ SAFETY/EQUIPMENT CONSULTANT, IF ANY, SHALL REVIEW THESE PLANS AND ANY AVAILABLE GEOTECHNICAL INFORMATION AND THE ANTICIPATED INSTALLATION SITES WITHIN THE PROJECT WORK AREA IN ORDER TO IMPLEMENT CONTRACTOR'S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

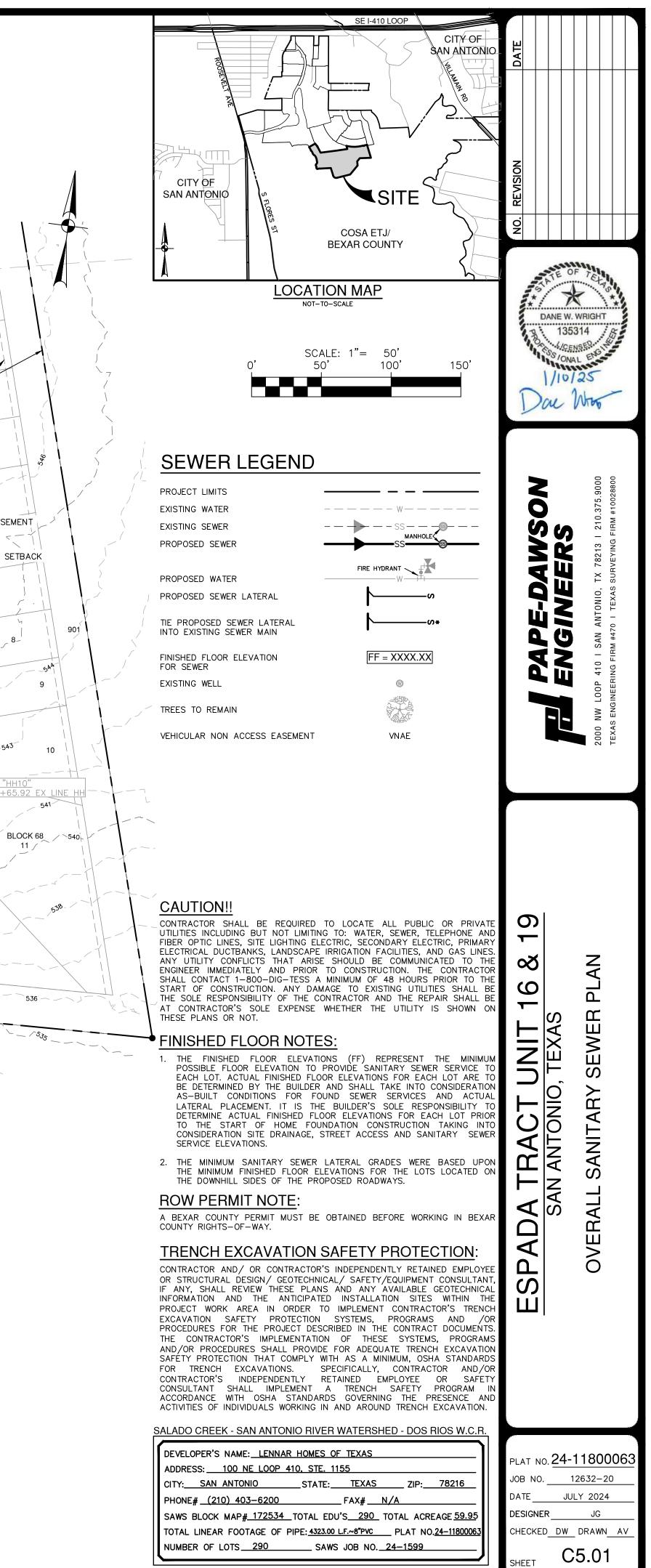
SALADO CREEK - SAN ANTONIO RIVER WATERSHED - DOS RIOS W.C.R.

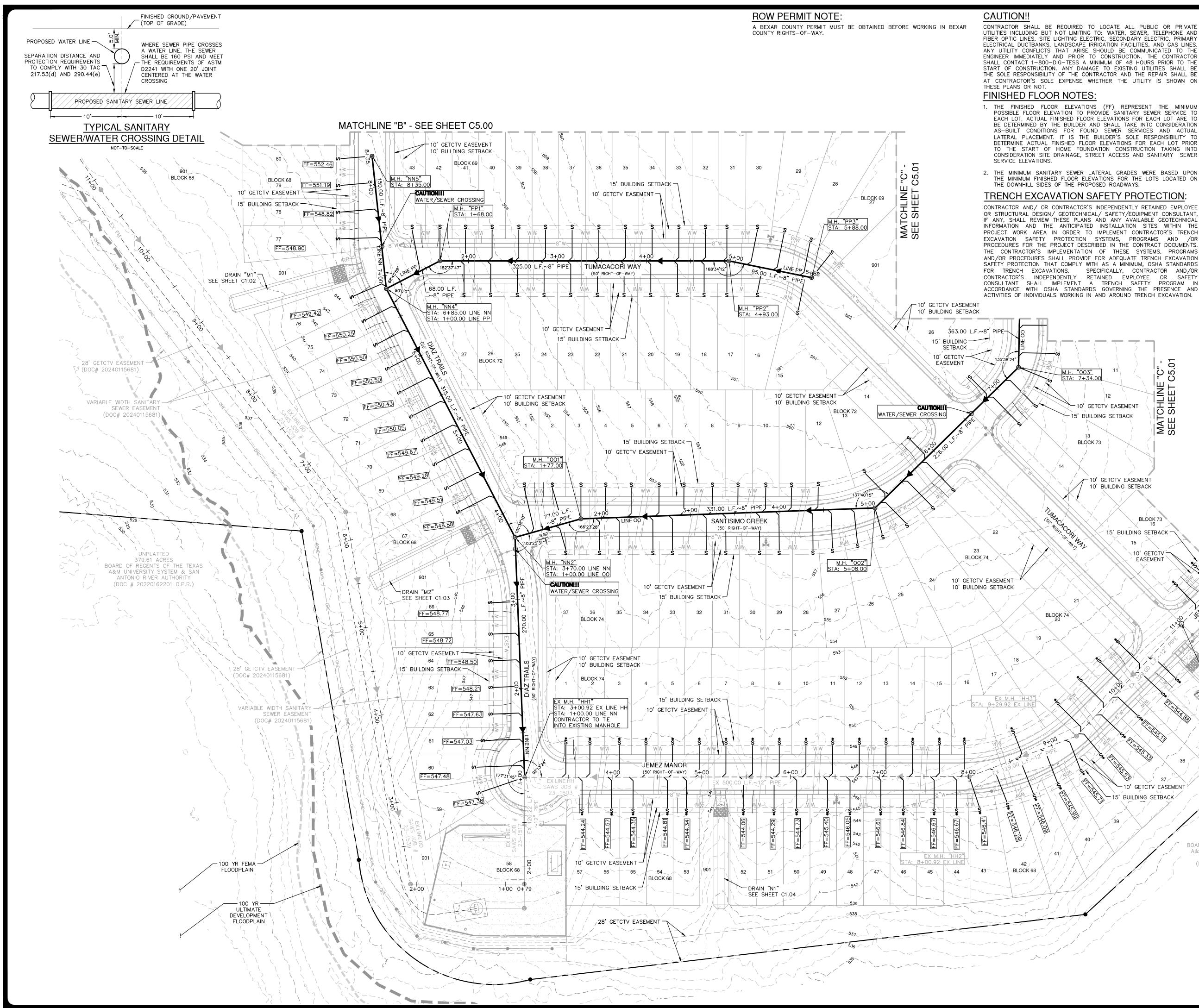
l	DEVELOPER'S NAME: LENNAR HOMES OF TEXAS
l	ADDRESS:
l	CITY: SAN ANTONIO STATE: TEXAS ZIP: 78216
	PHONE# <u>(210) 403–6200</u> FAX# <u>N/A</u>
	SAWS BLOCK MAP# 172534 TOTAL EDU'S 290 TOTAL ACREAGE 59.9
	TOTAL LINEAR FOOTAGE OF PIPE: <u>4323.00 L.F.~8"PVC</u> PLAT NO. <u>24–118000</u>
l	NUMBER OF LOTS 290 SAWS JOB NO. 24-1599
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PLAT NO.	24-11800063
JOB NO.	12632-20
DATE	MARCH 2025
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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 REVIEW THESE PLANS AND ANY AVAILABLE GEOTECHNICAL INFORMATION AND THE ANTICIPATED INSTALLATION SITES WITHIN THE PROJECT WORK AREA IN ORDER TO IMPLEMENT CONTRACTOR'S TRENCH EXCAVATION SAFETY PROTECTION SYSTEMS, PROGRAMS AND /OR PROCEDURES FOR THE PROJECT DESCRIBED IN THE CONTRACT DOCUMENTS. THE CONTRACTOR'S IMPLEMENTATION OF THESE SYSTEMS, PROGRAMS AND/OR PROCEDURES SHALL PROVIDE FOR ADEQUATE TRENCH EXCAVATION SAFÉTY 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.

- 10' GETCTV EASEMENT

5' BUILDING SETBACK

10' GETCTV EASEMENT 10' BUILDING SETBACK

BLOCK 73

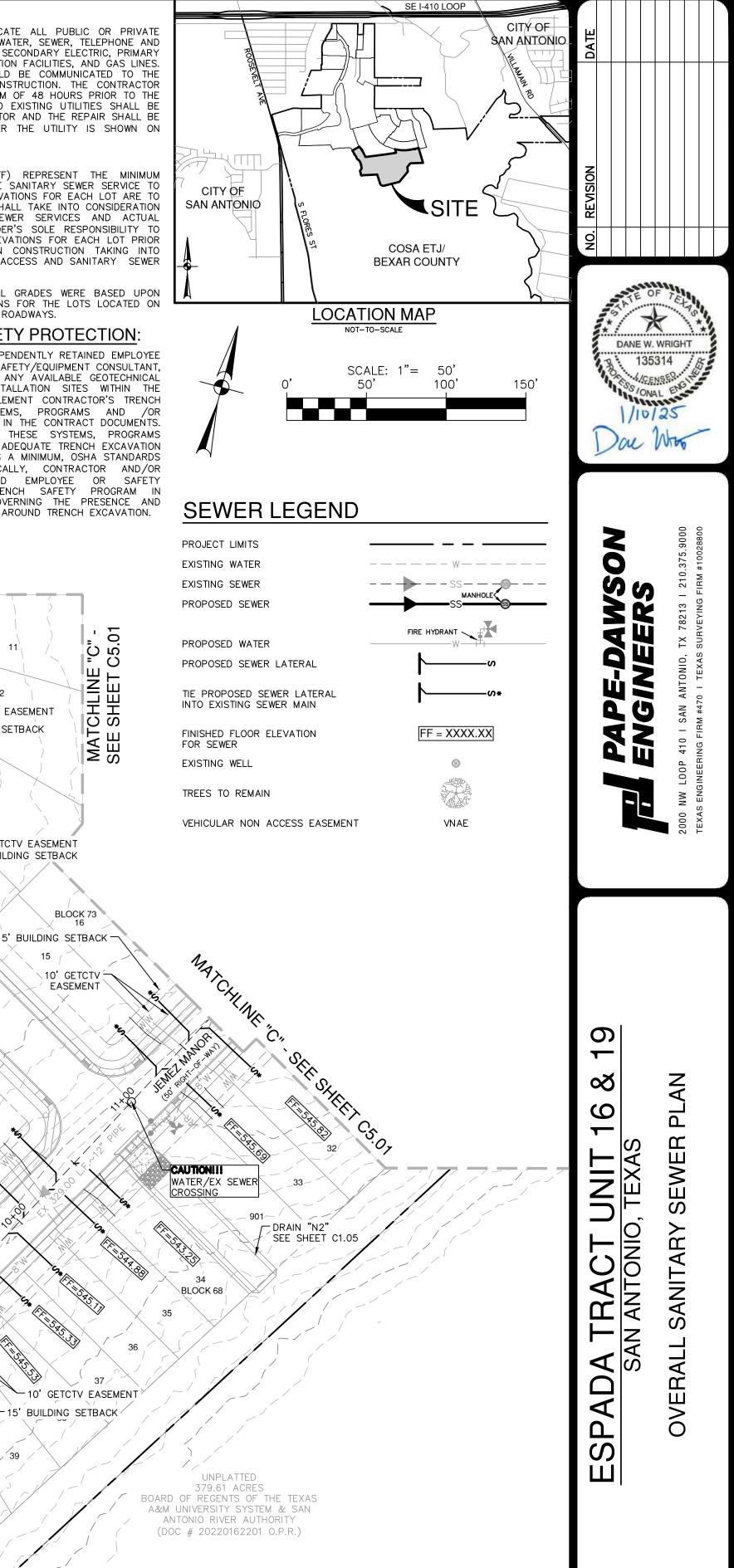
10' GETCTV

EASEMENT

15' BUILDING SETBACK -

BLOCK 73

40-



SALADO CREEK - SAN ANTONIO RIVER WATERSHED - DOS RIOS W.C.R.
DEVELOPER'S NAME: LENNAR HOMES OF TEXAS
ADDRESS: 100 NE LOOP 410, STE. 1155
CITY: SAN ANTONIO STATE: TEXAS ZIP: 78216
PHONE# (210) 403-6200 FAX# N/A
SAWS BLOCK MAP# <u>172534</u> TOTAL EDU'S <u>290</u> TOTAL ACREAGE <u>59.95</u>
TOTAL LINEAR FOOTAGE OF PIPE: 4323.00 L.F.~8"PVC PLAT NO.24-11800063
NUMBER OF LOTS 290 SAWS JOB NO. 24-1599

PLAT NO. 24-1180006

JOB NO. 12632-20

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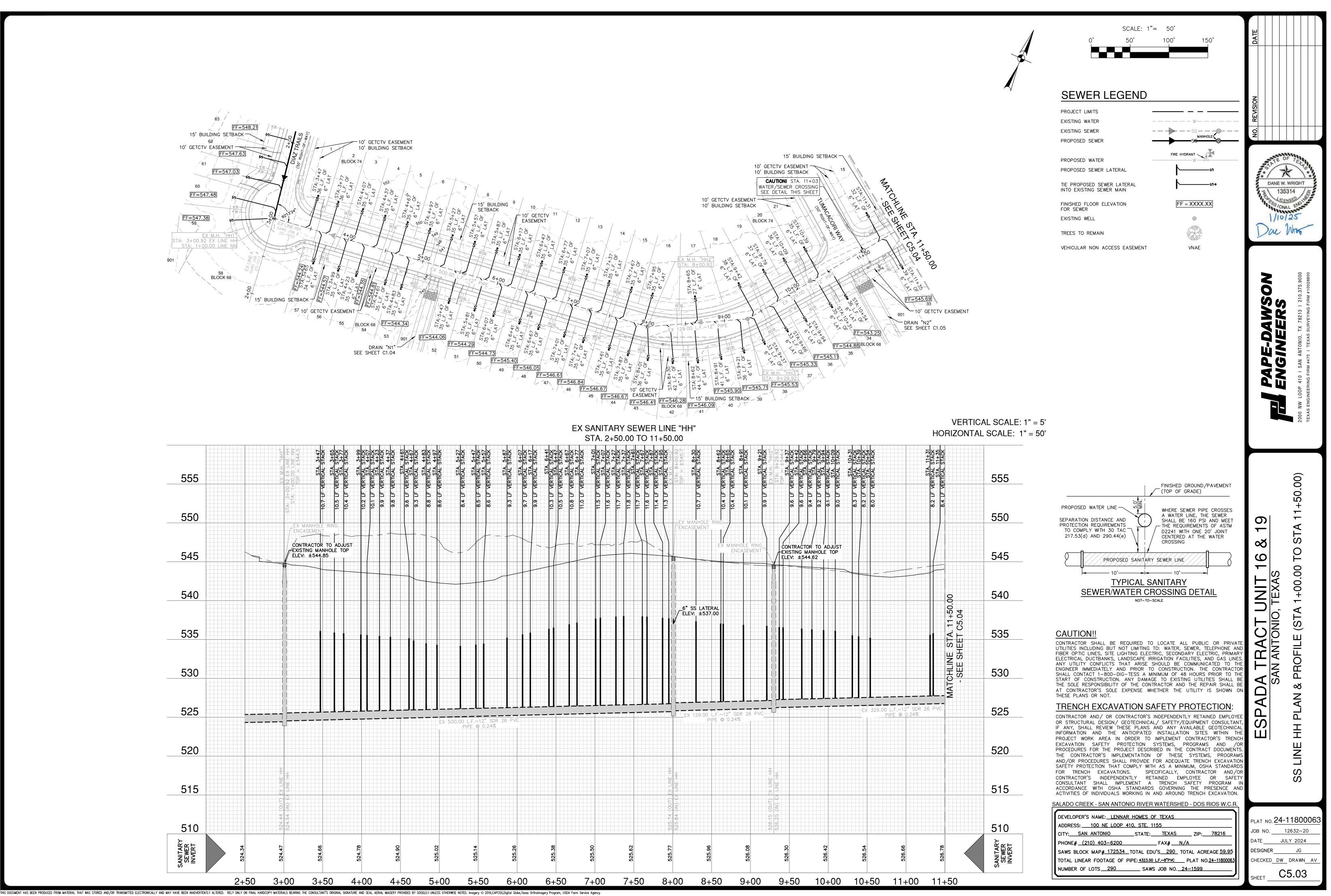
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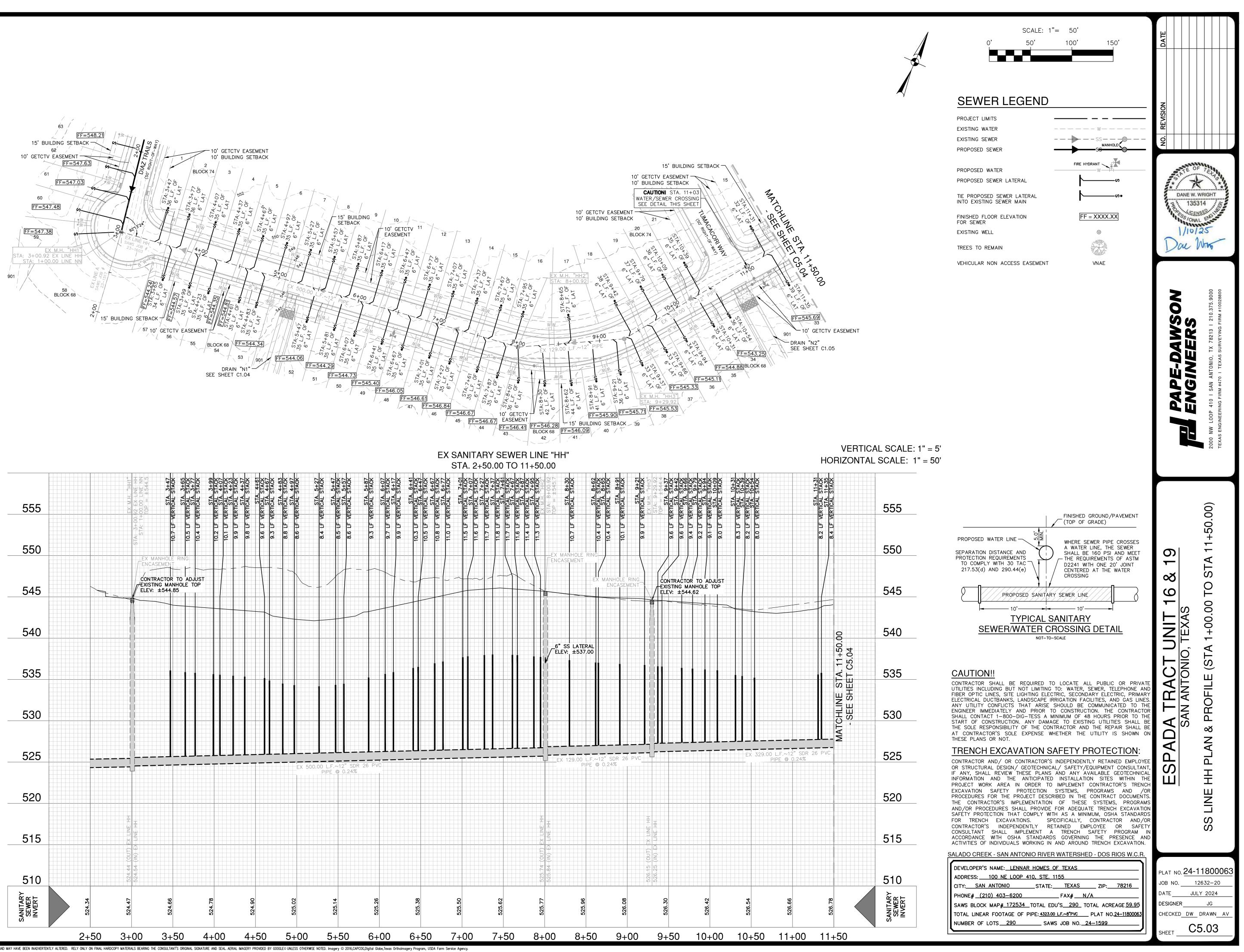
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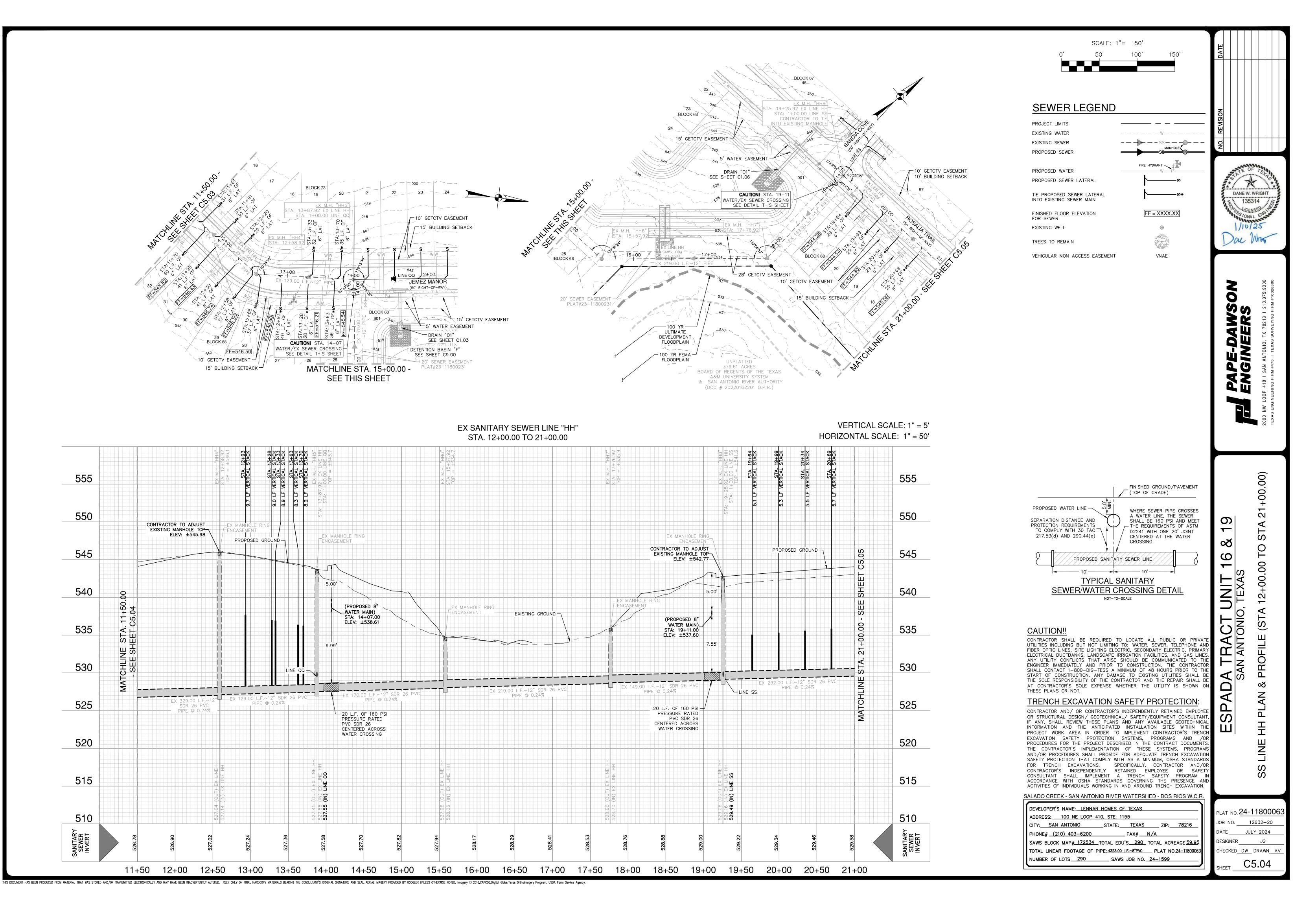
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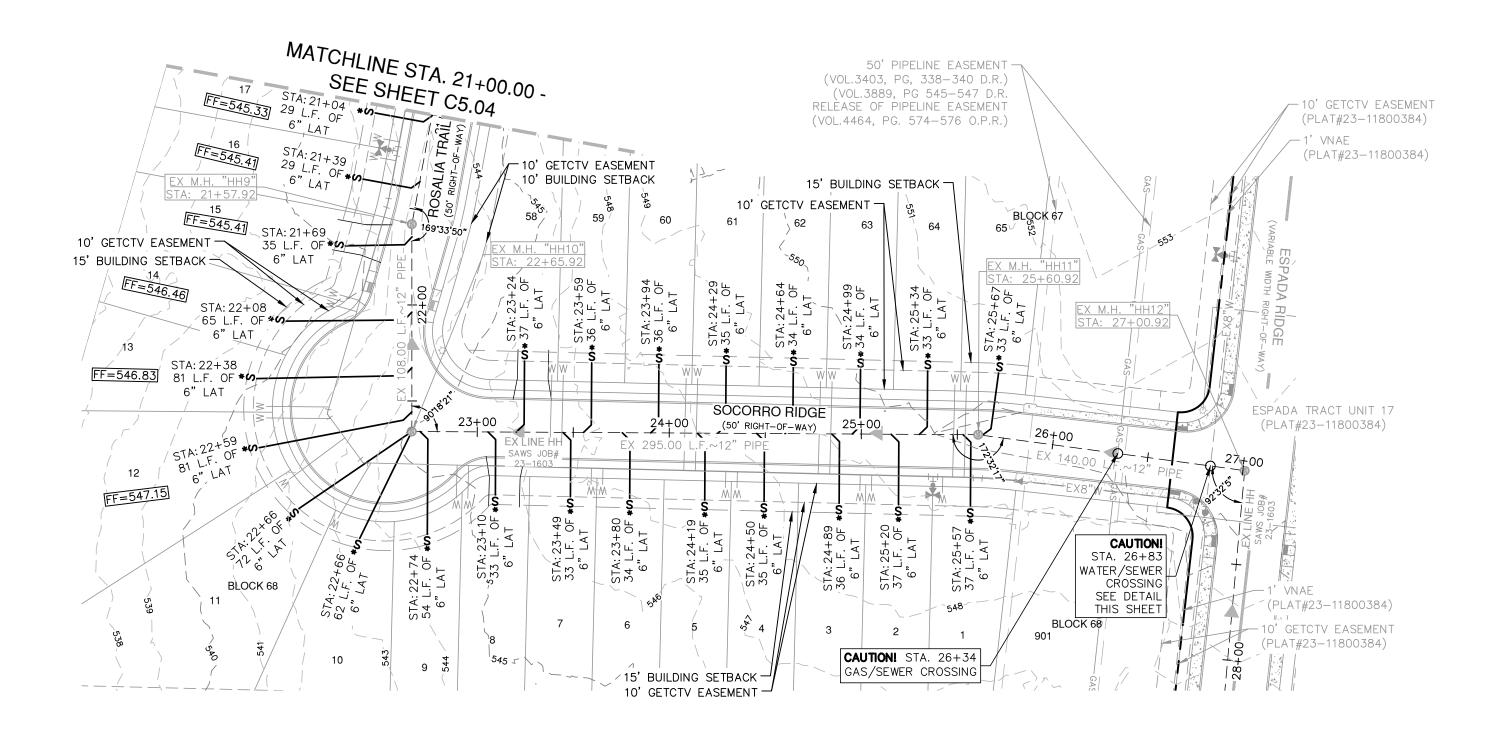
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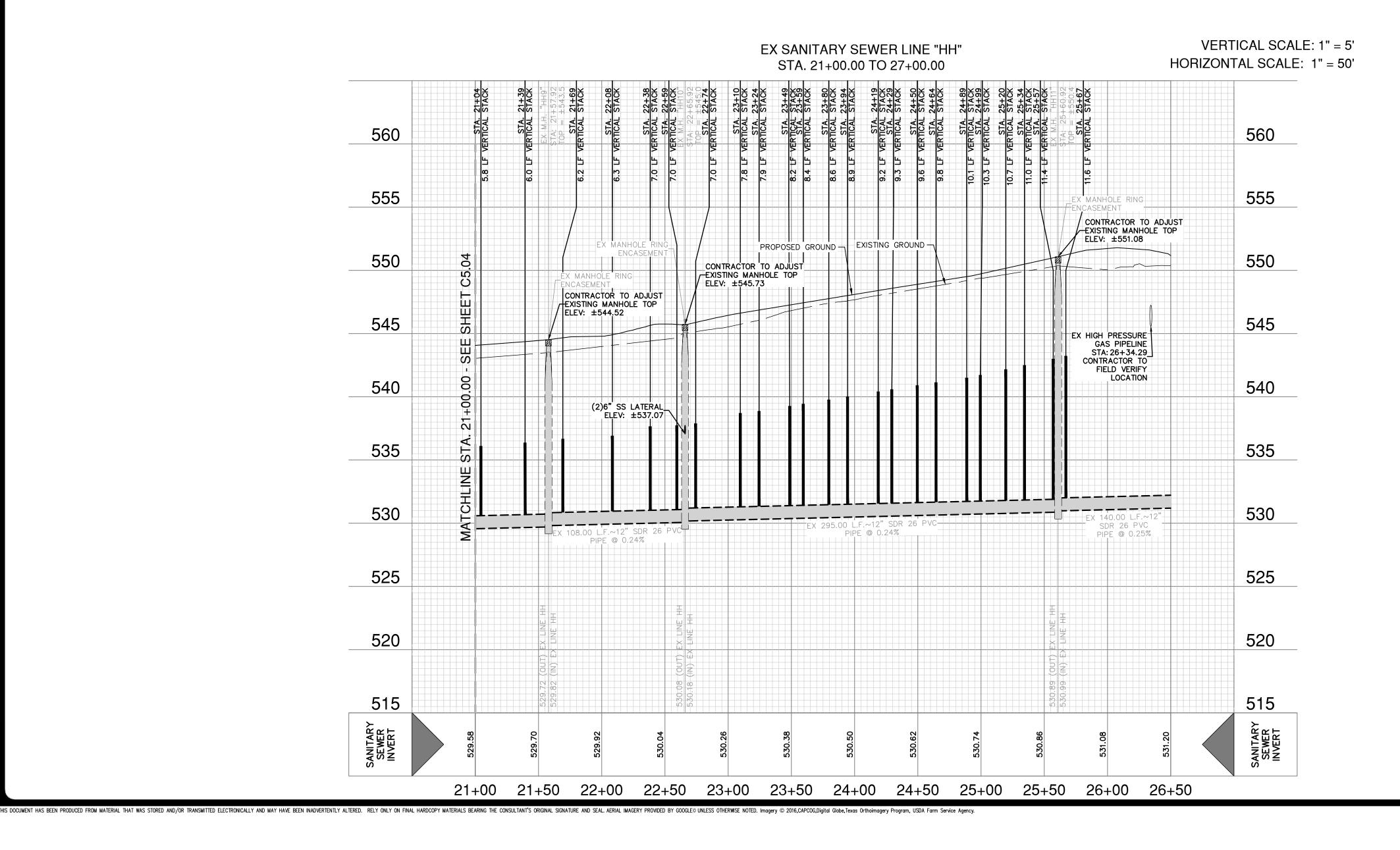
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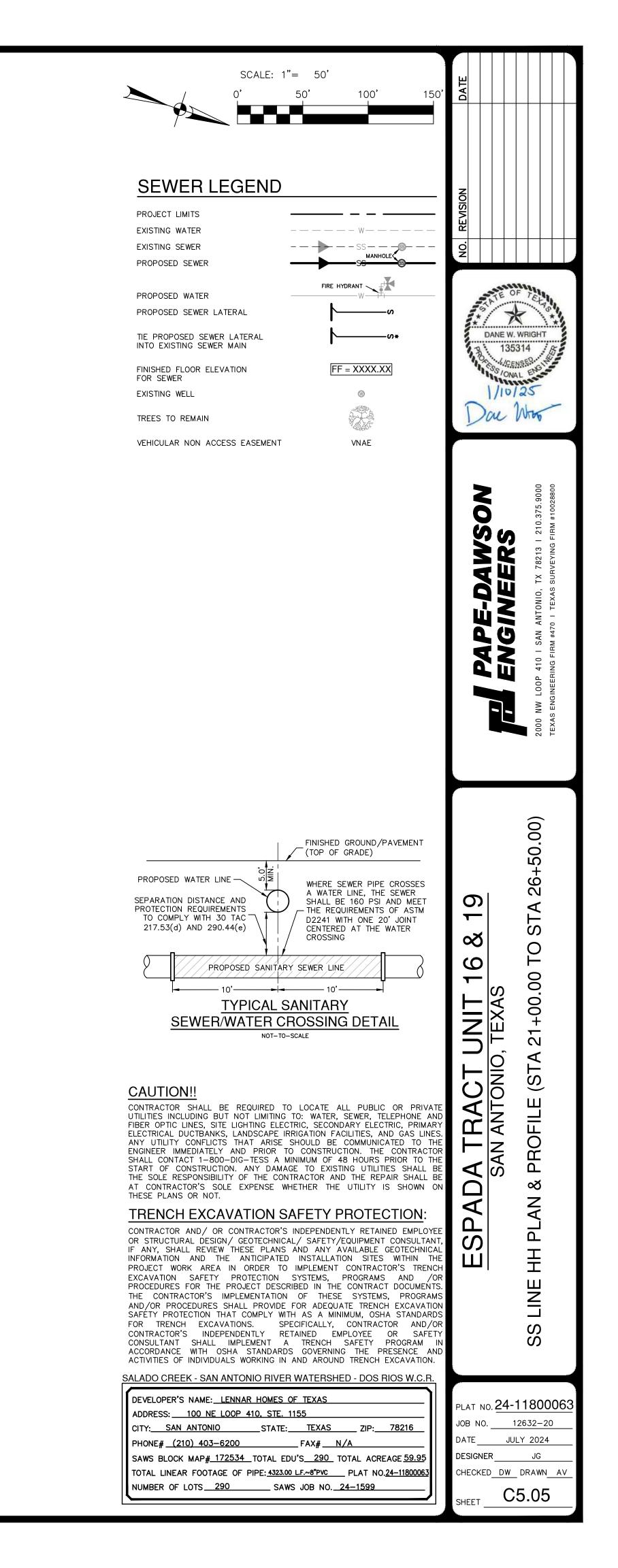


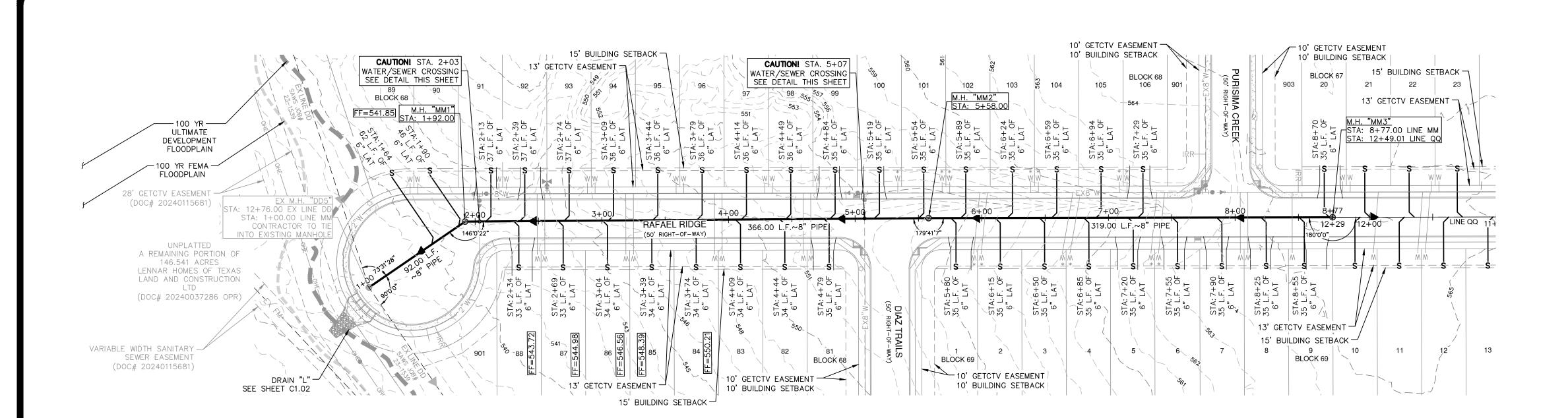


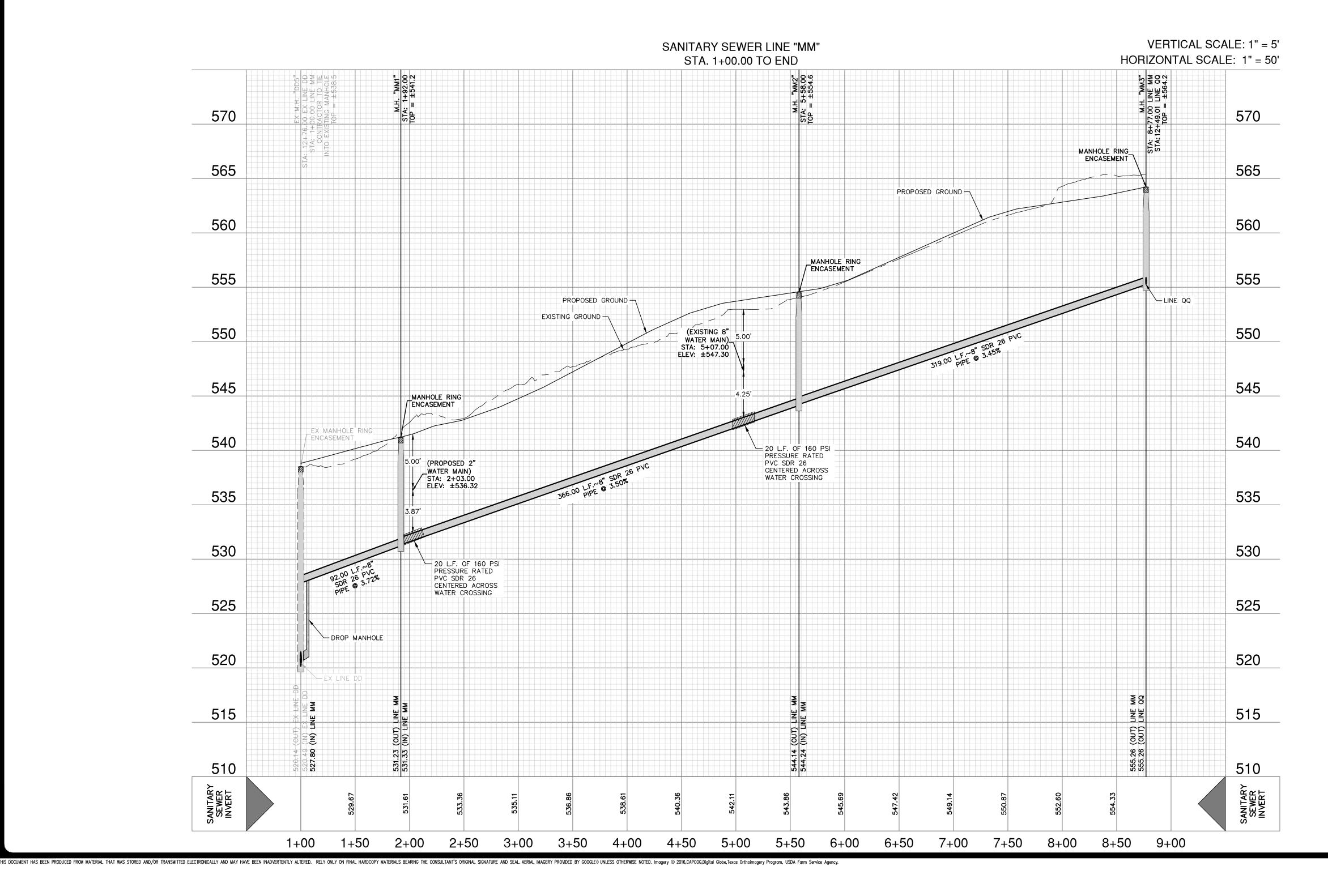


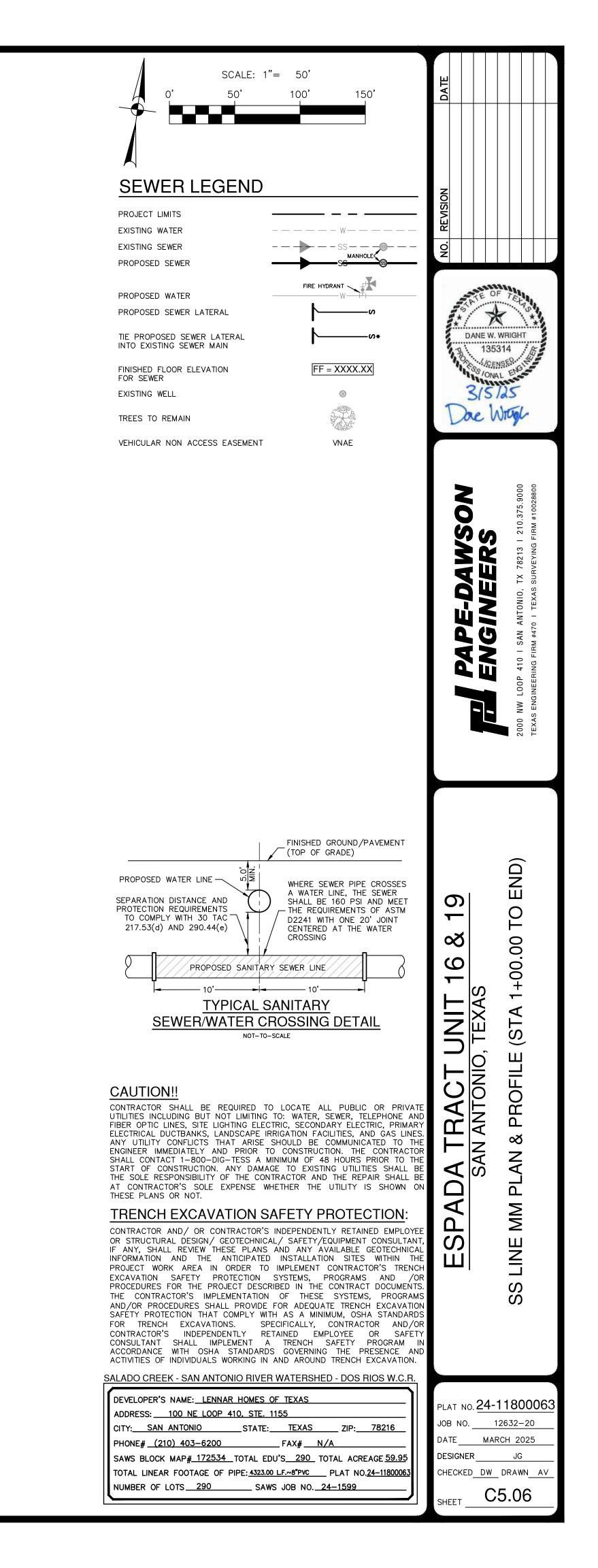


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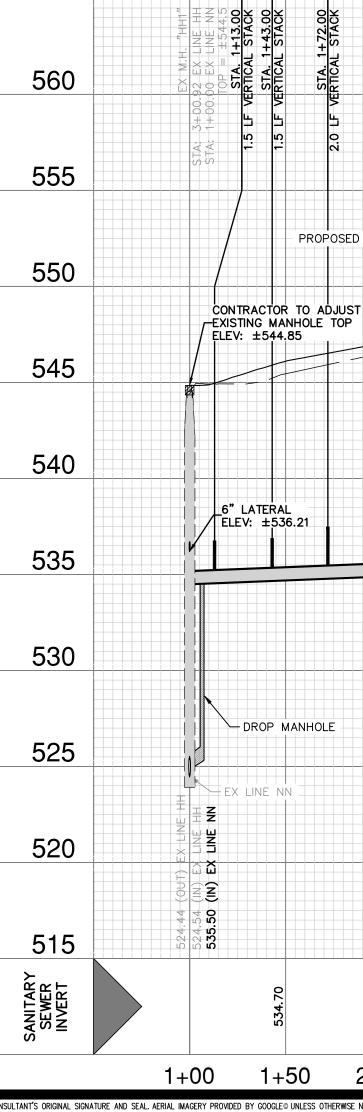


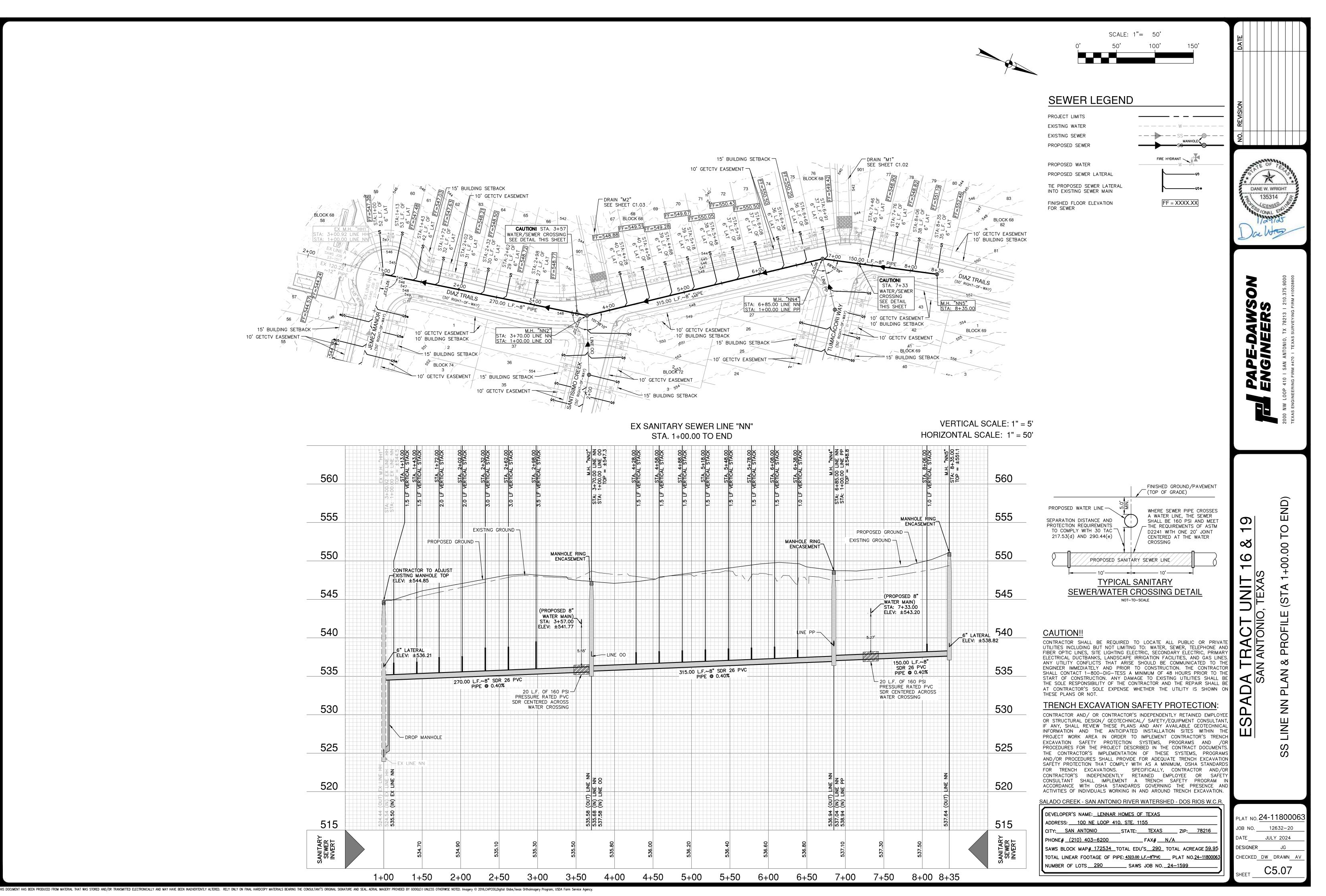


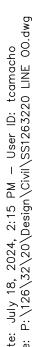


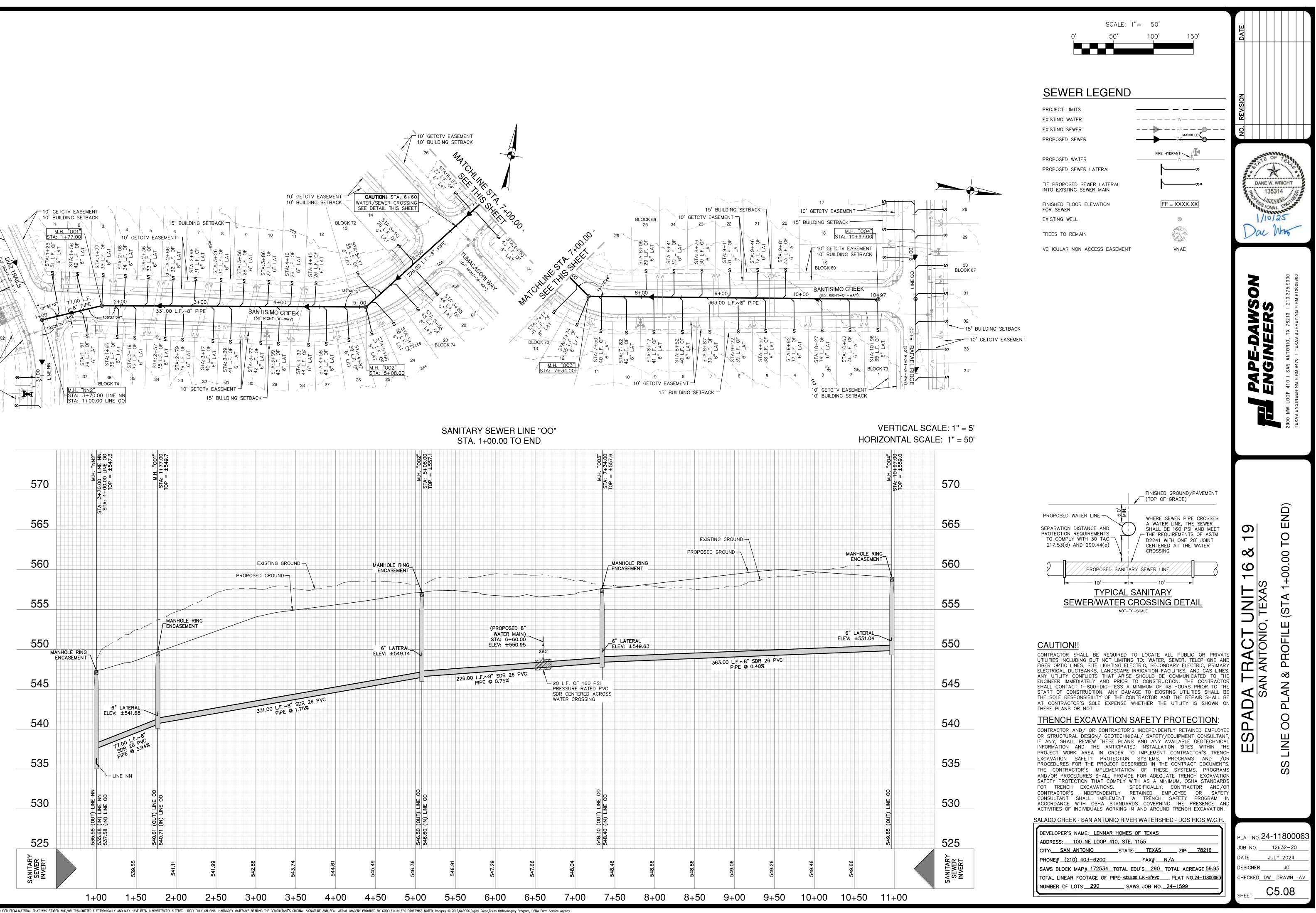


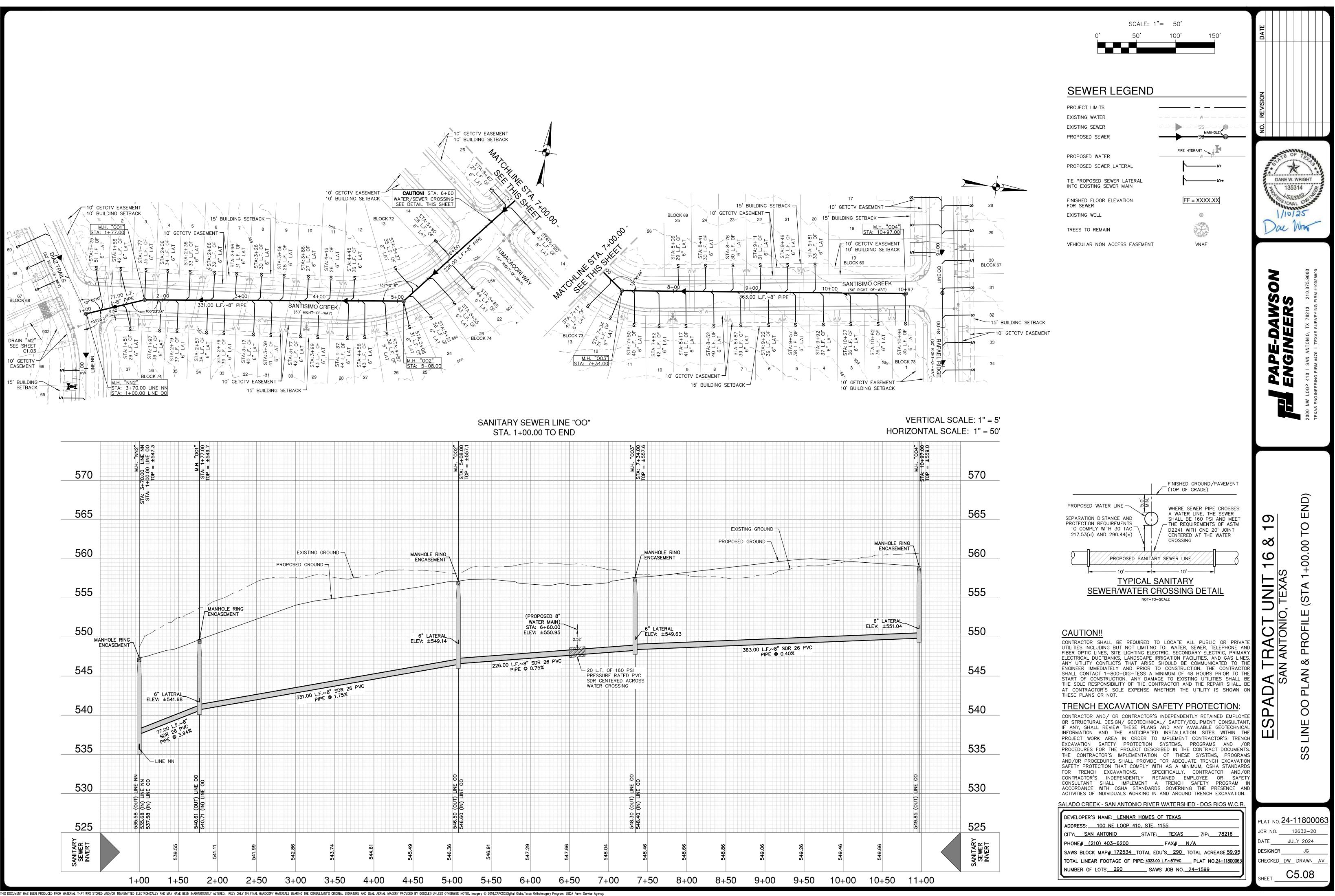
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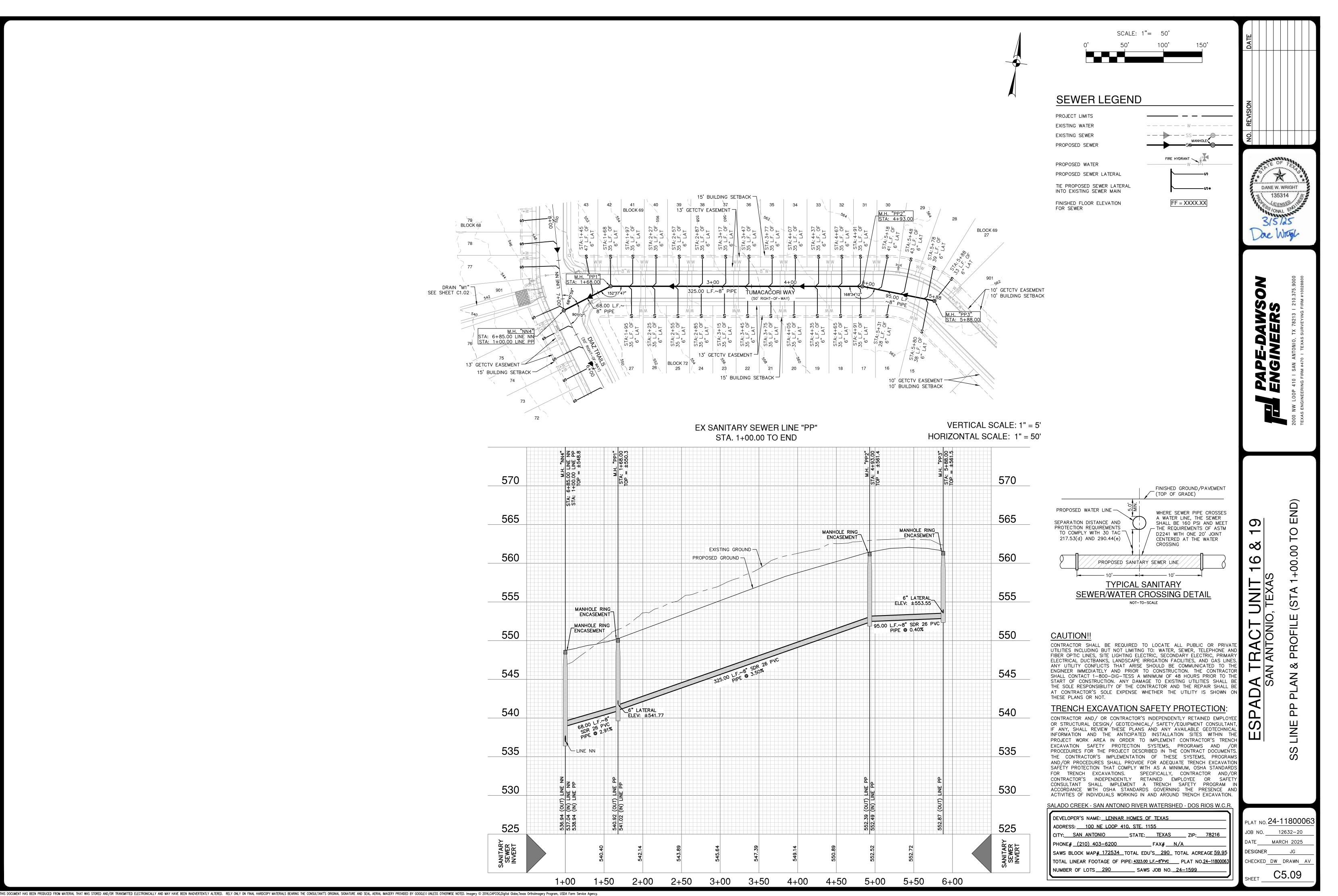


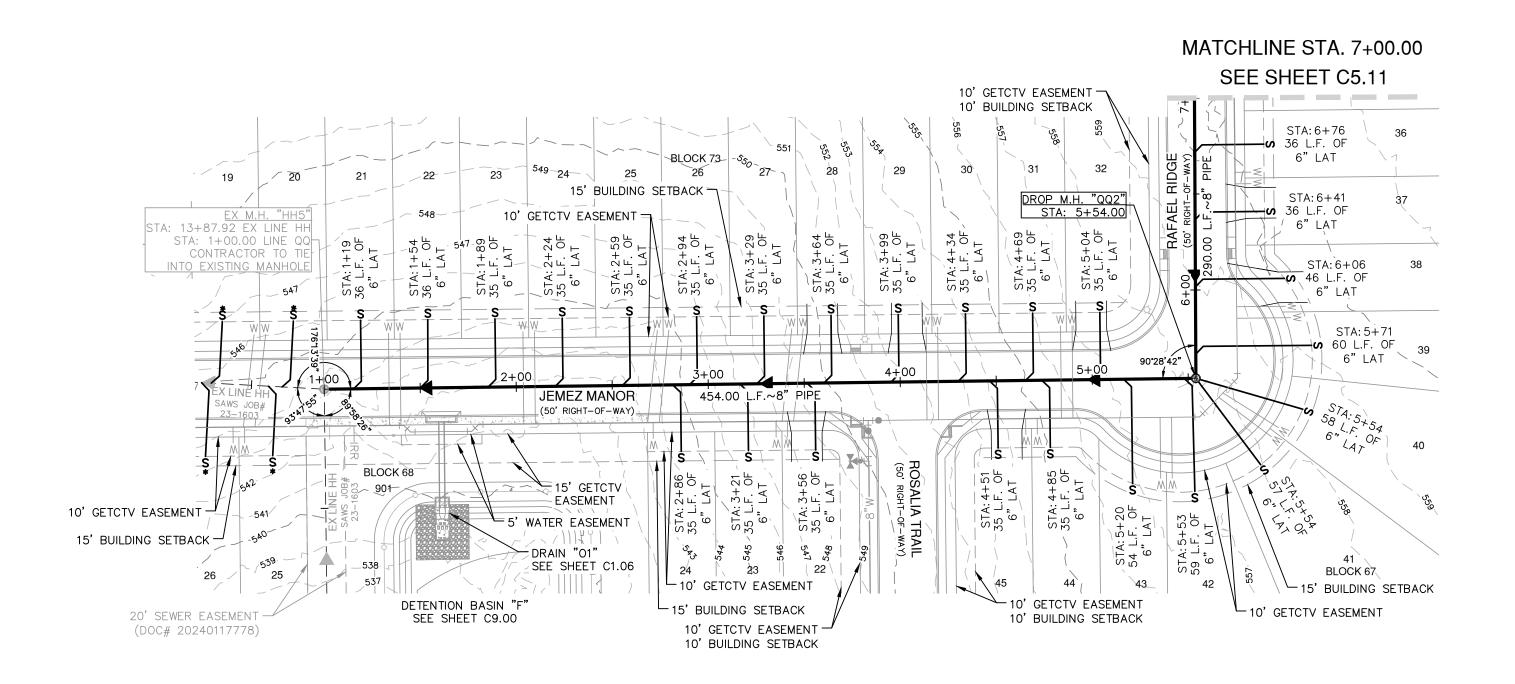


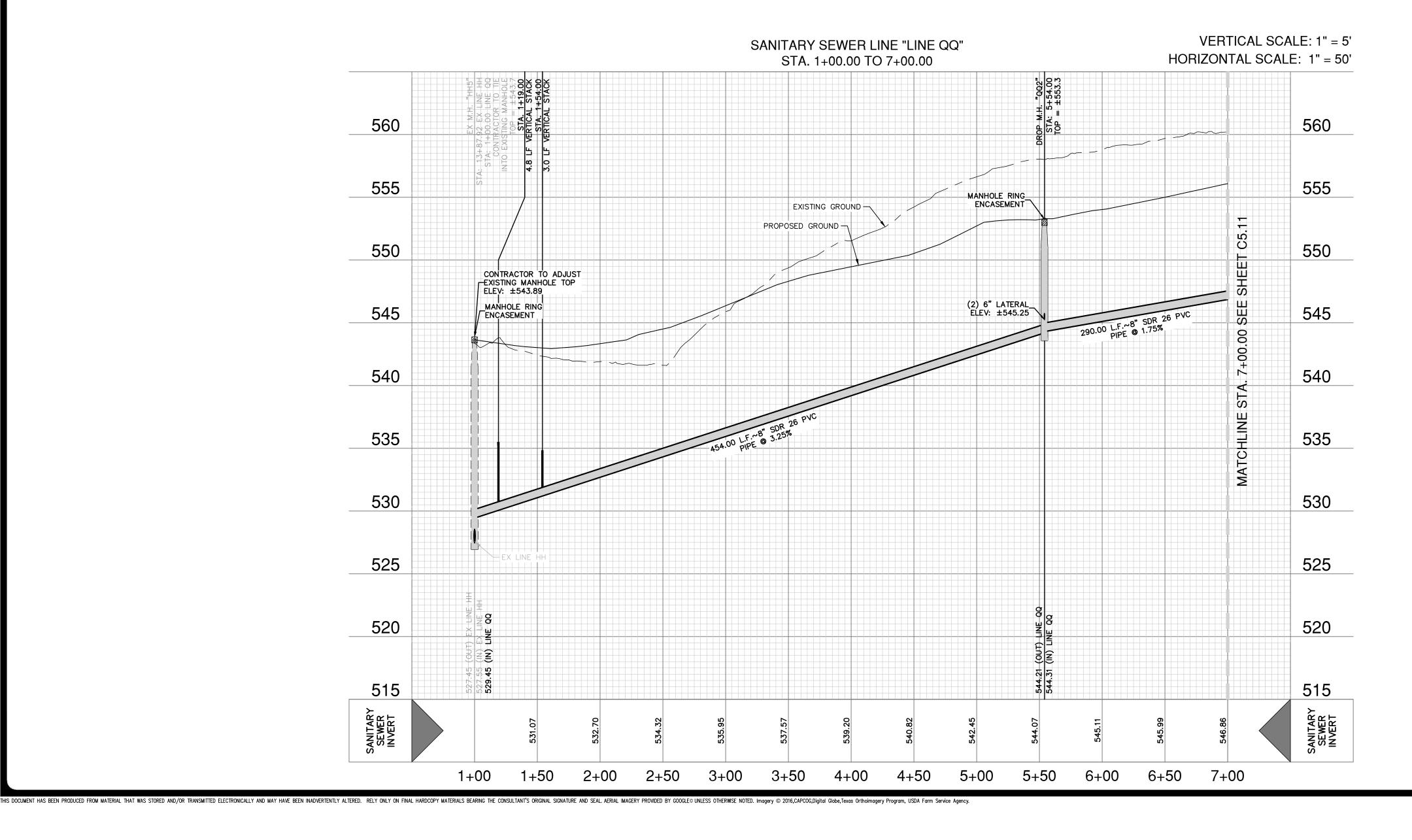


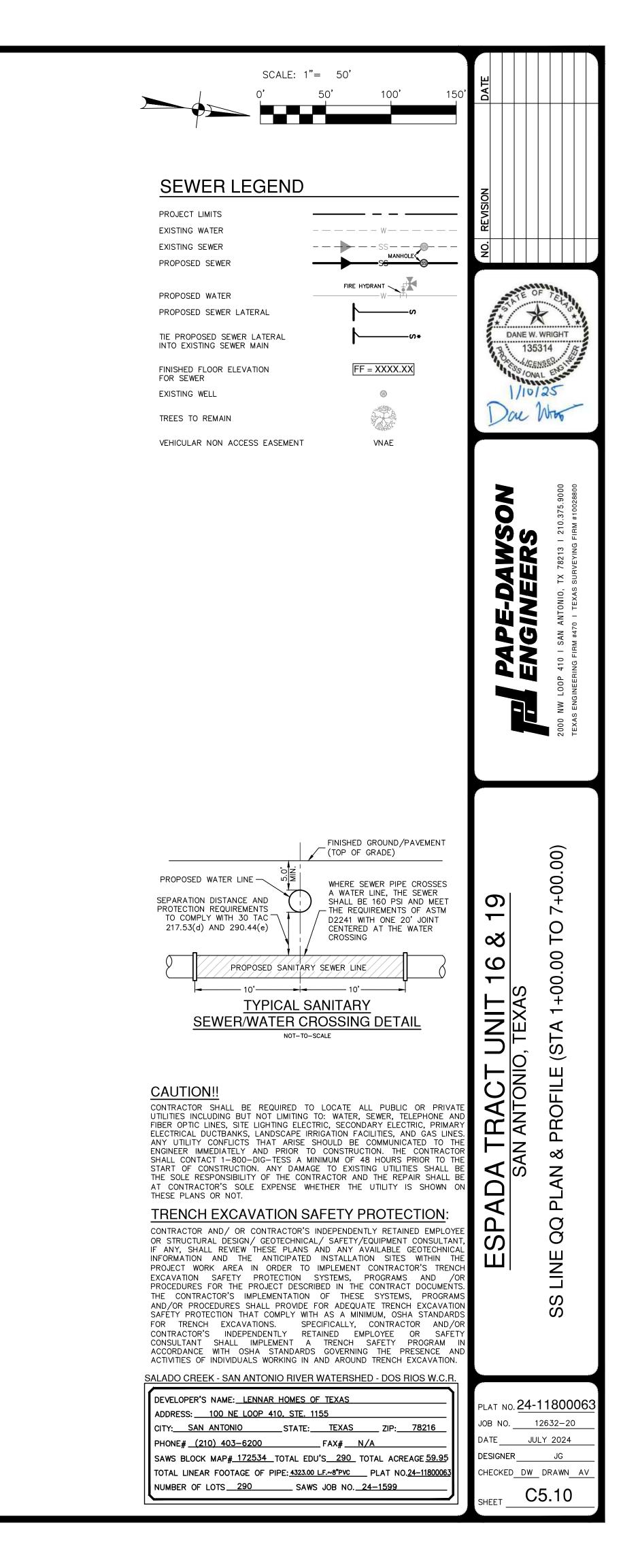


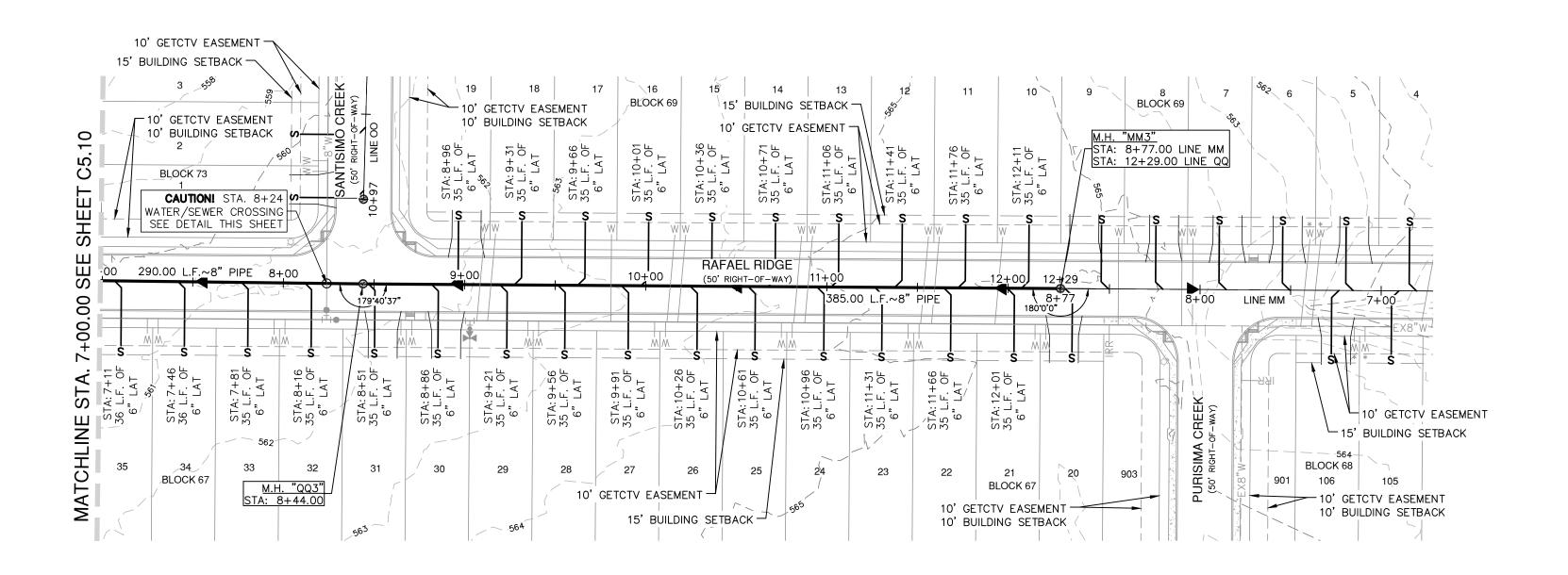


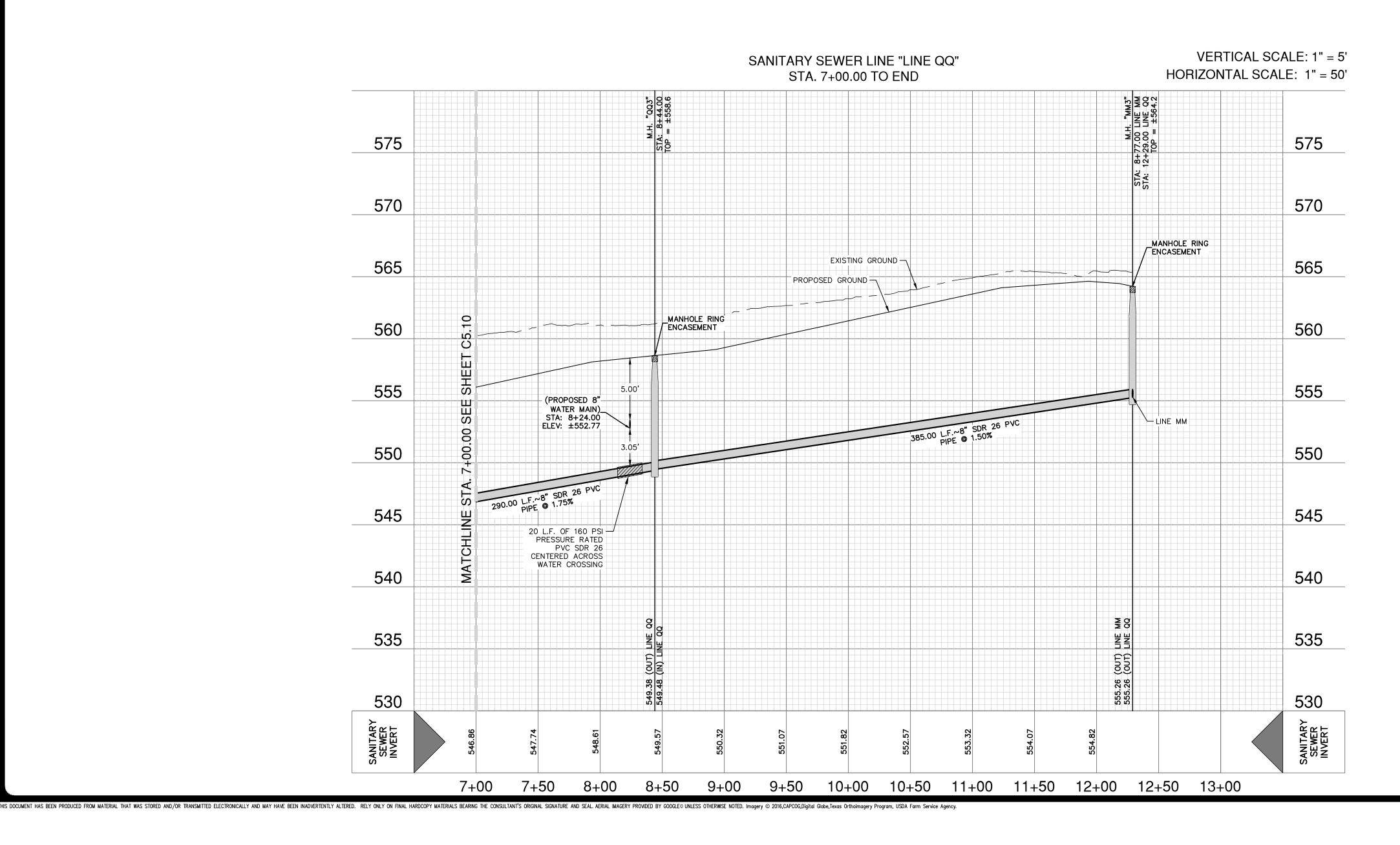


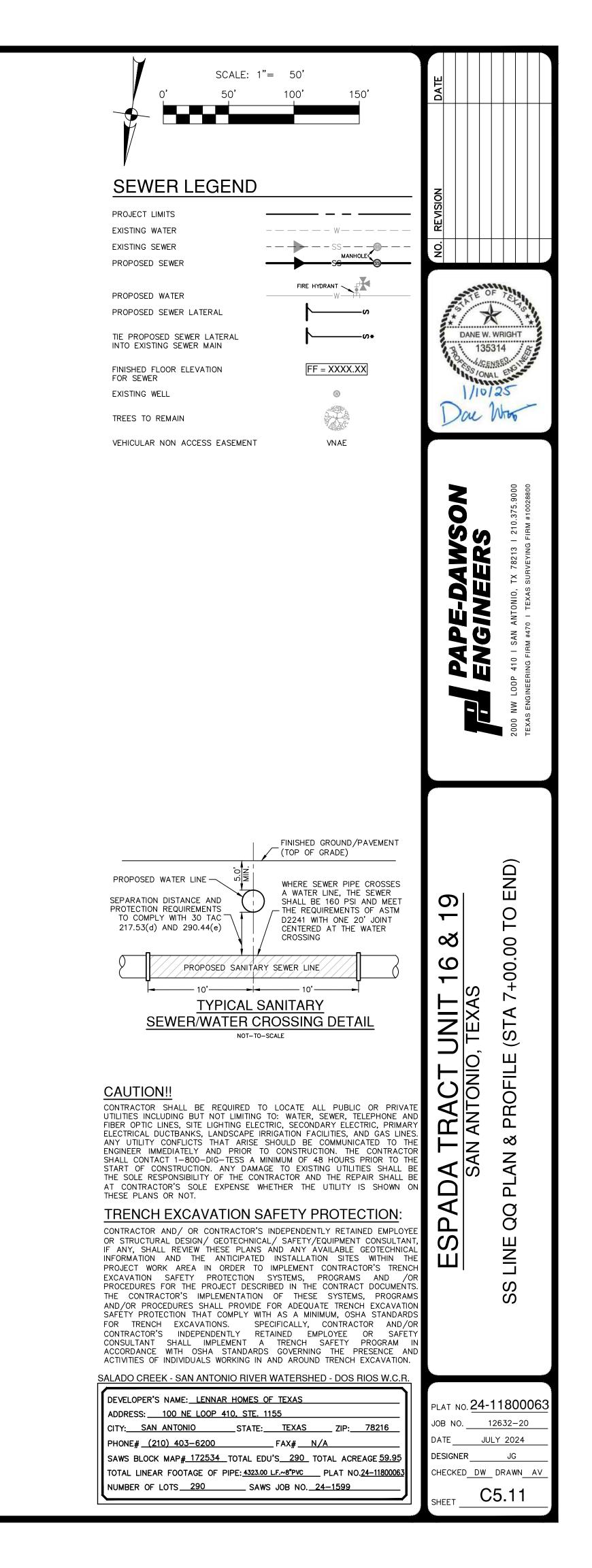


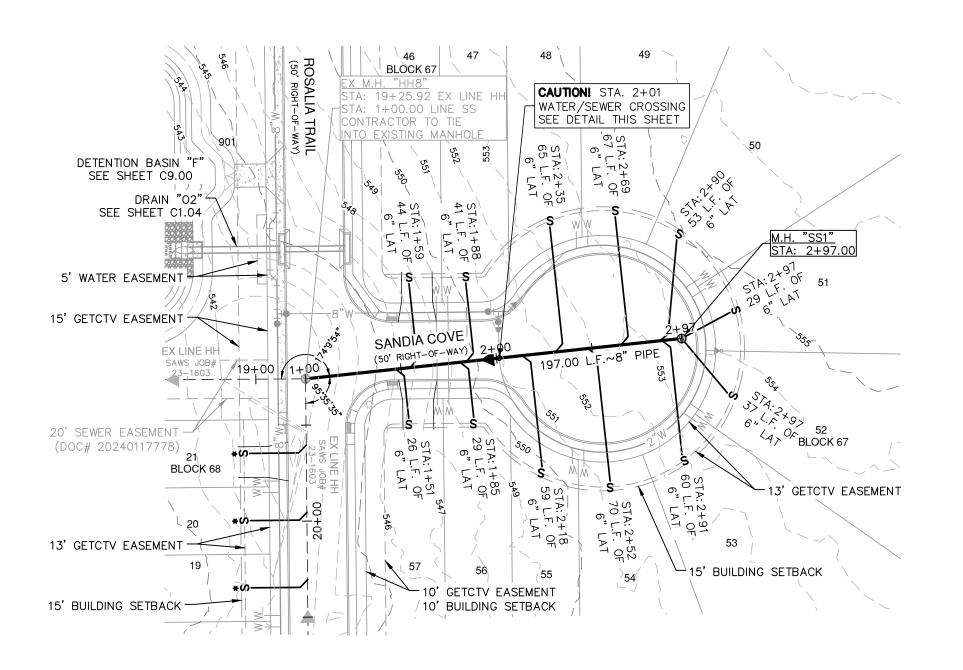


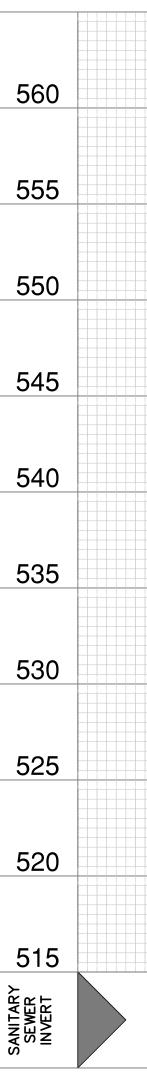


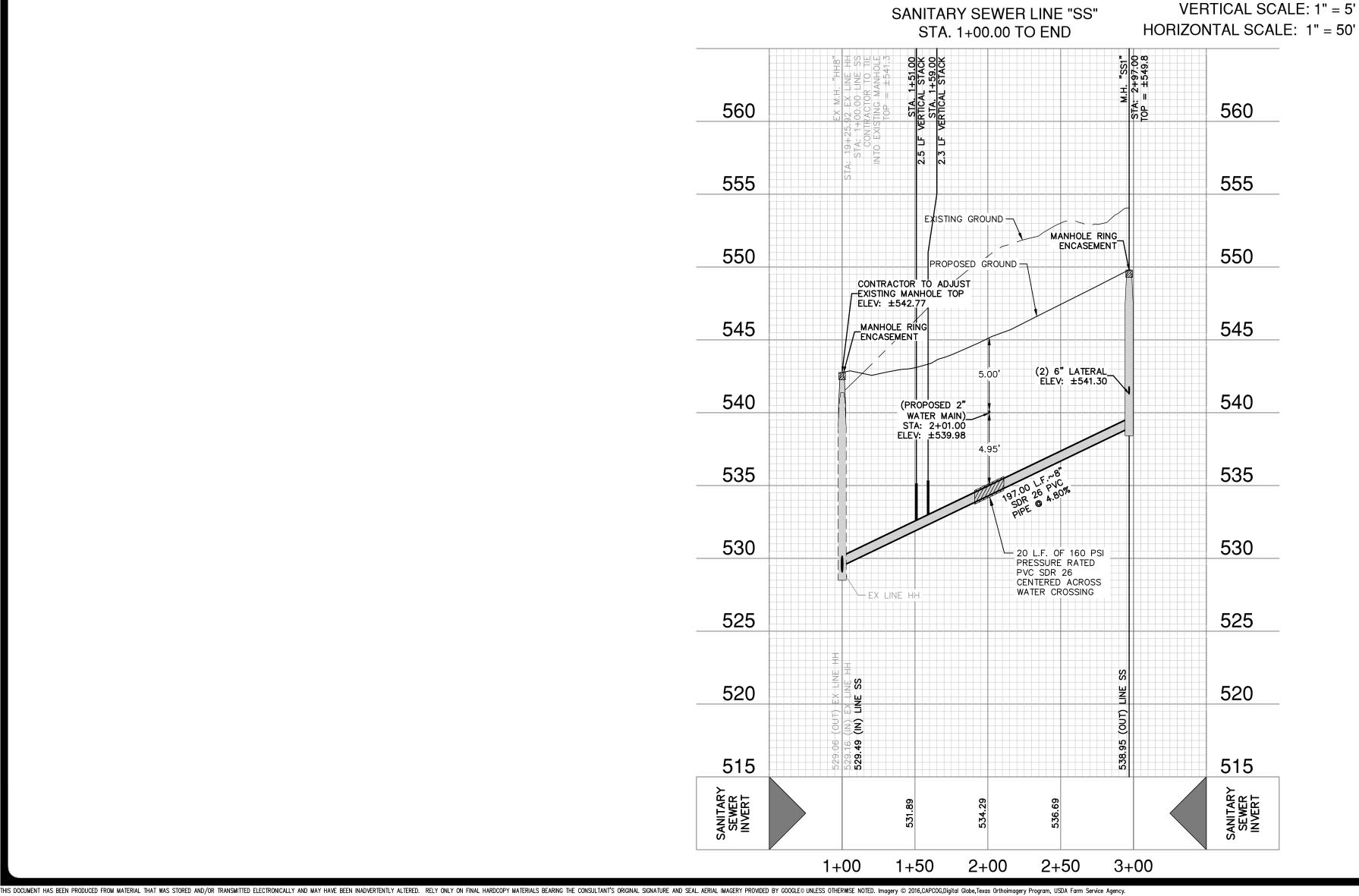


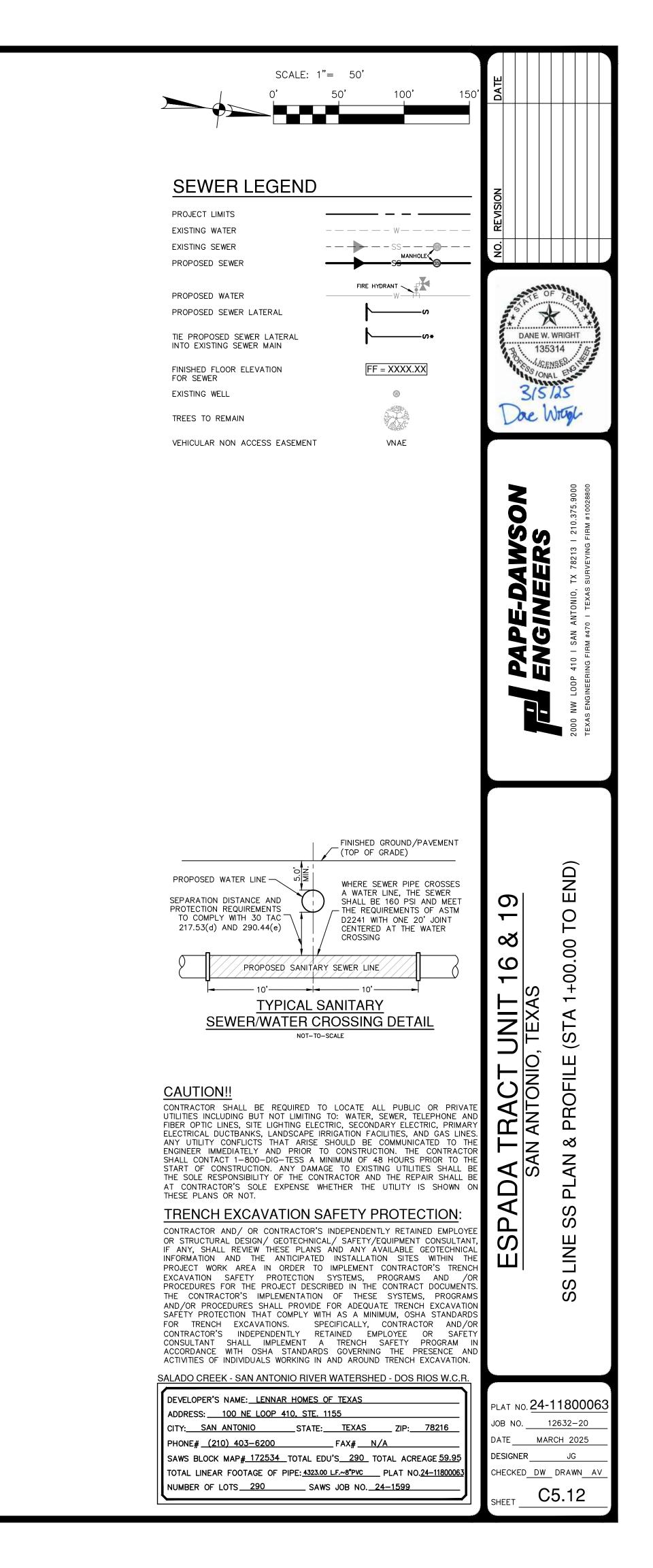


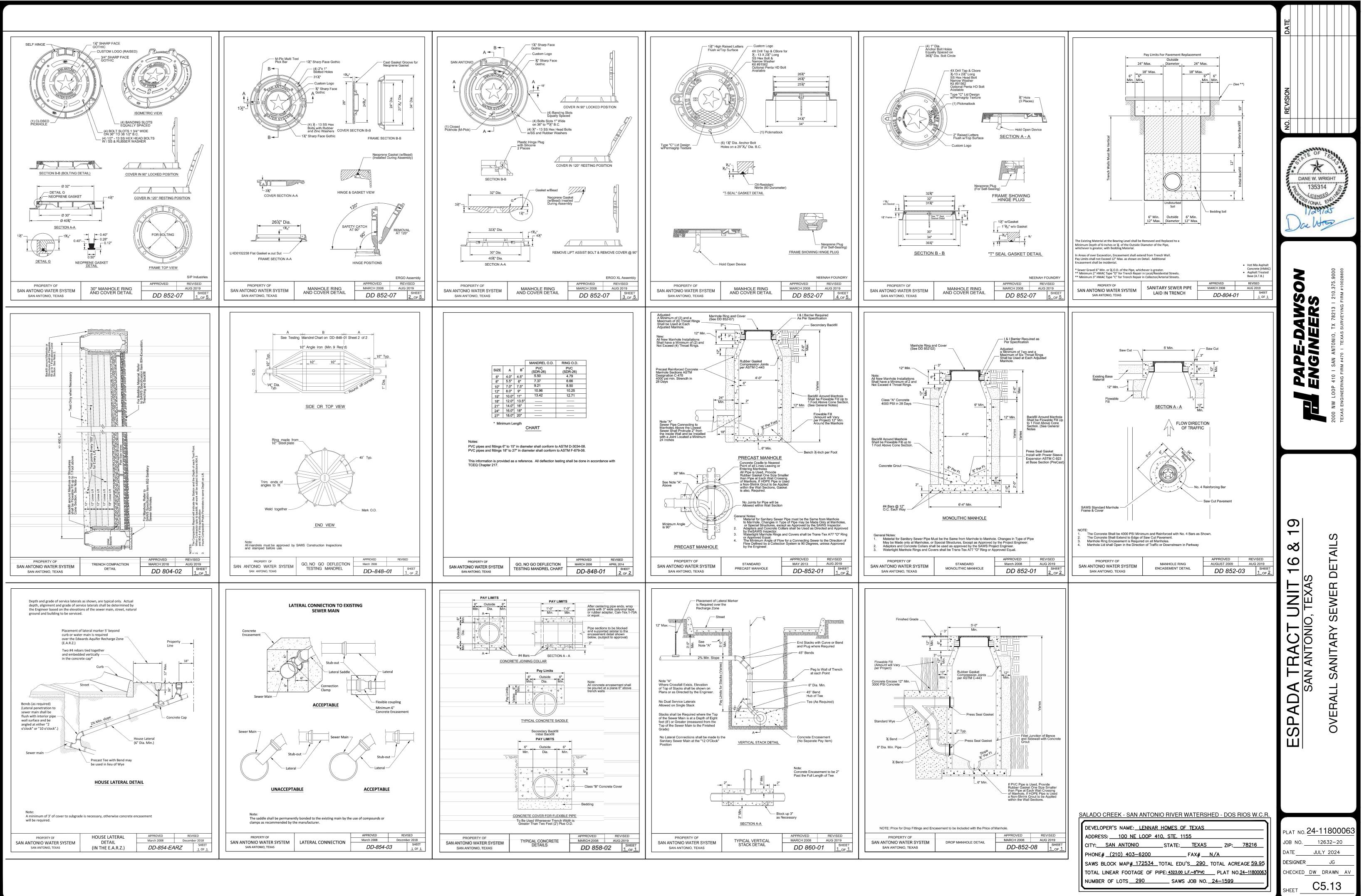


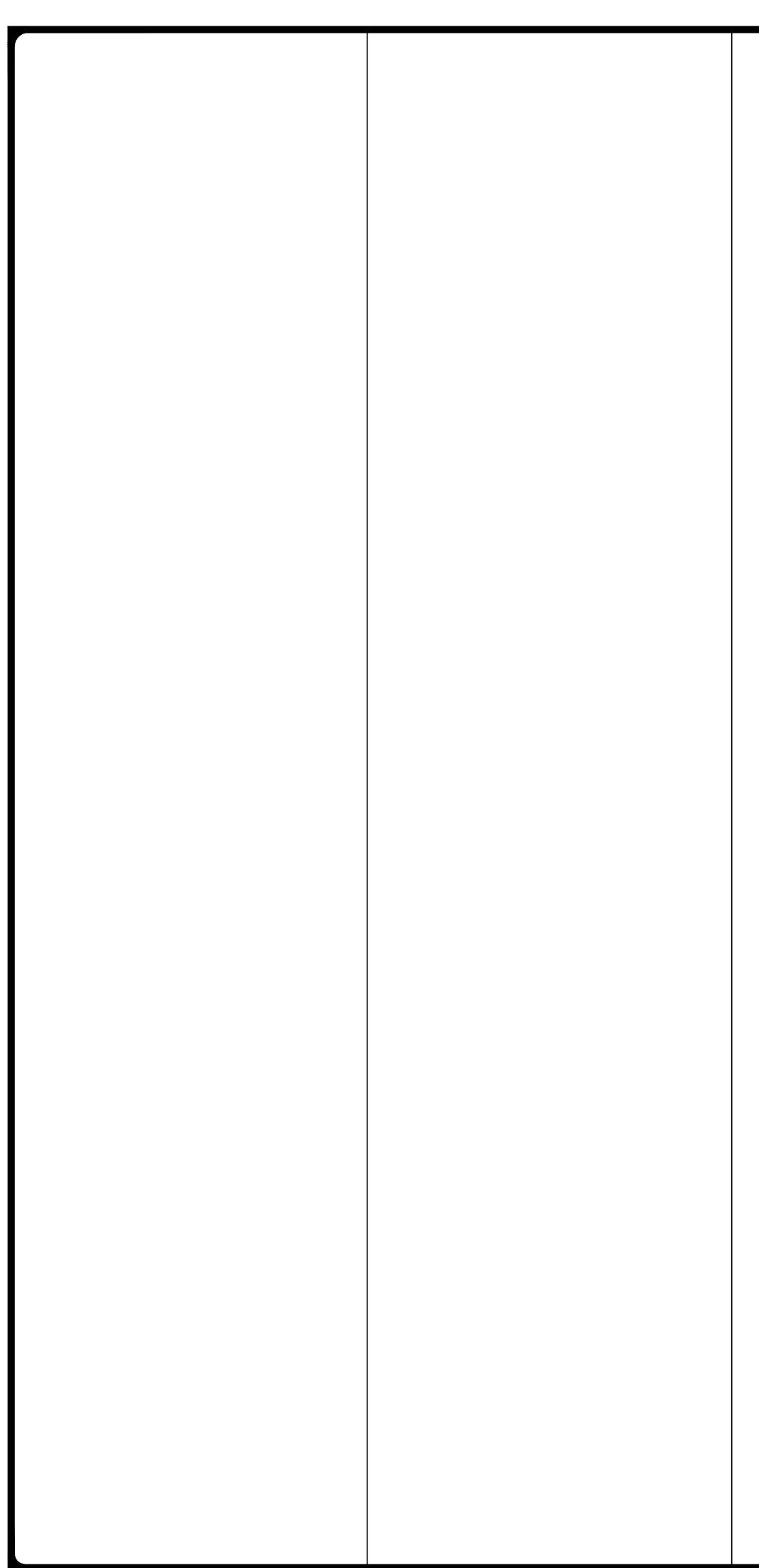












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SAWS CONSTRUCTION NOTES (LAST REVISED JANUARY 2022)

SAWS GENERAL SECTION

- FOLLOWING AS APPLICABLE:
- WATER", TAC TITLE 30 PART 1 CHAPTER 290.
- HIGHWAYS, STREETS AND DRAINAGE".
- WATER AND SANITARY SEWER CONSTRUCTION"
- WORKS CONSTRUCTION".

(UECM).

- NOTED WITHIN THE DESIGN PLANS.
- INSPECTION DIVISION AT BEGINNING ANY WORK.
- DURING CONSTRUCTION AT NO COST TO SAWS.
- 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
- PROJECT'S CONSTRUCTION.
- CONSTRUCTION SPECIFICATIONS AND PERMIT REQUIREMENTS.
- . THE CONTRACTOR SHALL NOT PLACE ANY WASTE MATERIALS IN THE 100-YEAR FLOOD PLAIN WITHOUT FIRST OBTAINING AN APPROVED FLOOD PLAIN PERMIT.
- SAWS RECOGNIZED HOLIDAYS. REQUEST SHOULD BE SENT TO CONSTWORKREQ@SAWS.ORG.
- WEEKEND WORK: CONTRACTORS ARE REQUIRED TO NOTIFY THE SAWS INSPECTION REQUEST SHOULD BE SENT TO CONSTWORKREQ@SAWS.ORG.
- ANY AND ALL SAWS UTILITY WORK INSTALLED WITHOUT HOLIDAY/WEEKEND APPROVAL WILL BE SUBJECT TO BE UNCOVERED FOR PROPER INSPECTION.
- PROVIDING ALL NECESSARY DOCUMENTED TEST RESULTS.
- INSPECTION DIVISION.

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

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 B.CURRENT TXDOT "STANDARD SPECIFICATIONS FOR CONSTRUCTION OF

C.CURRENT "SAN ANTONIO WATER SYSTEM STANDARD SPECIFICATIONS FOR D.CURRENT CITY OF SAN ANTONIO "STANDARD SPECIFICATIONS FOR PUBLIC

E. CURRENT CITY OF SAN ANTONIO "UTILITY EXCAVATION CRITERIA MANUAL"

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

(210) 233-2973, ON NOTIFICATION PROCEDURES THAT WILL BE USED TO NOTIFY AFFECTED HOME RESIDENTS AND/OR PROPERTY OWNERS 48 HOURS PRIOR TO

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

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. TH

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

8. ALL WORK IN TEXAS DEPARTMENT OF TRANSPORTATION (TXDOT) AND/OR BEXAR COUNTY RIGHT-OF-WAY SHALL BE DONE IN ACCORDANCE WITH RESPECTIVE

. THE CONTRACTOR SHALL COMPLY WITH CITY OF SAN ANTONIO OR OTHER GOVERNING MUNICIPALITY'S TREE ORDINANCES WHEN EXCAVATING NEAR TREES.

CONSTRUCTION DEPARTMENT 48 HOURS IN ADVANCE TO REQUEST WEEKEND WORK.

2. 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

13. A COPY OF ALL TESTING REPORTS SHALL 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.

- THE CONTRACTOR IS TO MAKE ARRANGEMENTS 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.
 - . ALL PVC PIPE OVER 14 FEET OF COVER SHALL BE EXTRA STRENGTH WITH MINIMUM PIPE STIFFNESS OF 115 PSI.

HOLIDAY WORK: CONTRACTORS WILL NOT BE 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 C5.13 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.
- . 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 FIFVATIONS 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.

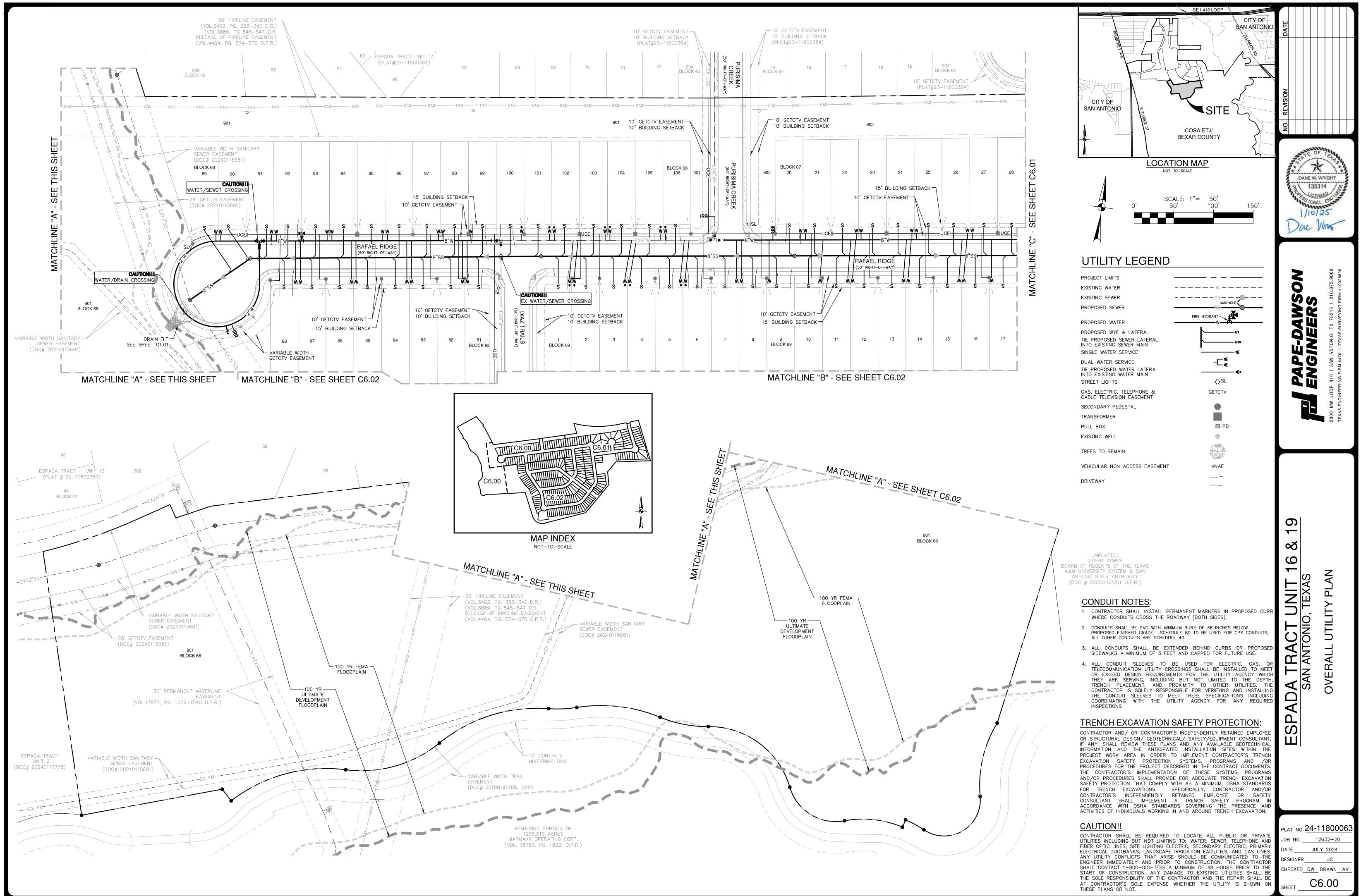
SALADO CREEK - SAN ANTONIO RIVER WATERSHED - DOS RIOS W.C.R.

DEVELOPER'S NAME: LENNAR HOMES OF TEXAS
ADDRESS: 100 NE LOOP 410, STE. 1155
CITY: SAN ANTONIO STATE: TEXAS ZIP: 78216
PHONE# <u>(210) 403–6200</u> FAX# <u>N/A</u>
SAWS BLOCK MAP# 172534 TOTAL EDU'S 290 TOTAL ACREAGE 59.9
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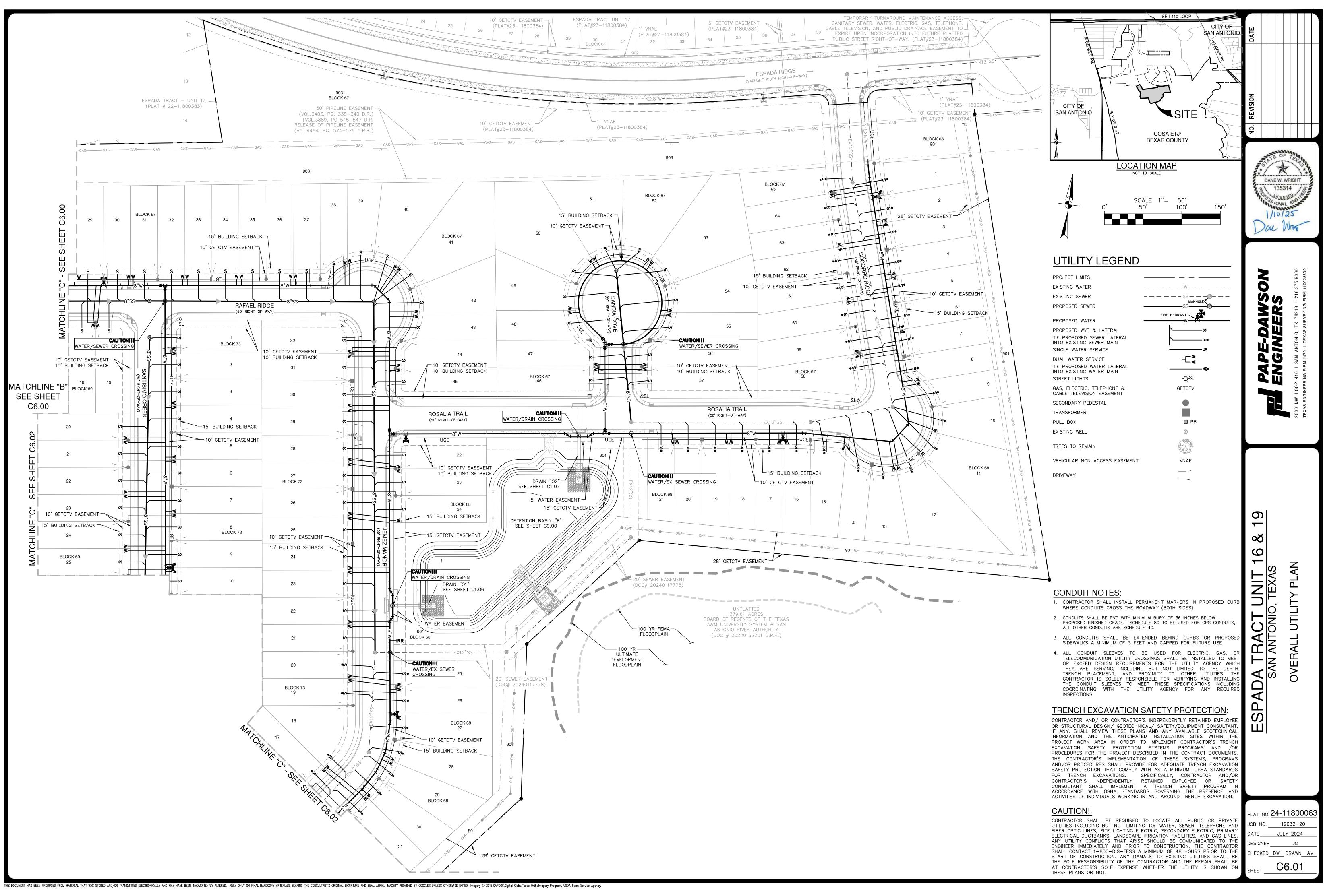
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JOB N DATE_	01	_Y 2024	3

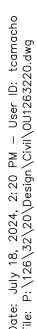
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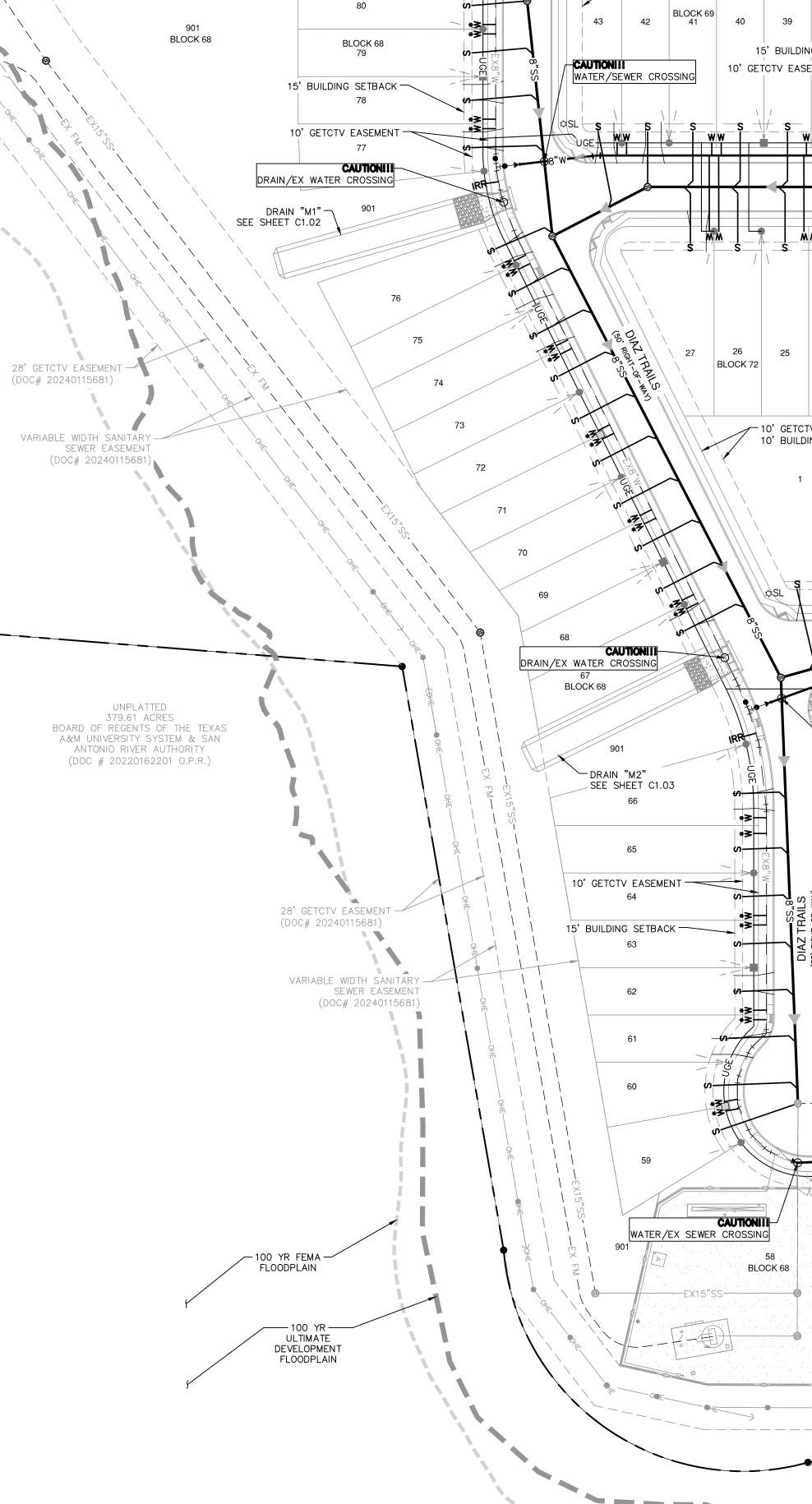
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CAUTION!!

THESE PLANS OR NOT.

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MATCHLINE "B" - SEE SHEET C6.00

10' GETCTV EASEMENT

10' BUILDING SETBACK

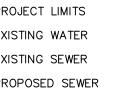


CONDUITS CROSS THE ROADWAY (BOTH SIDES).

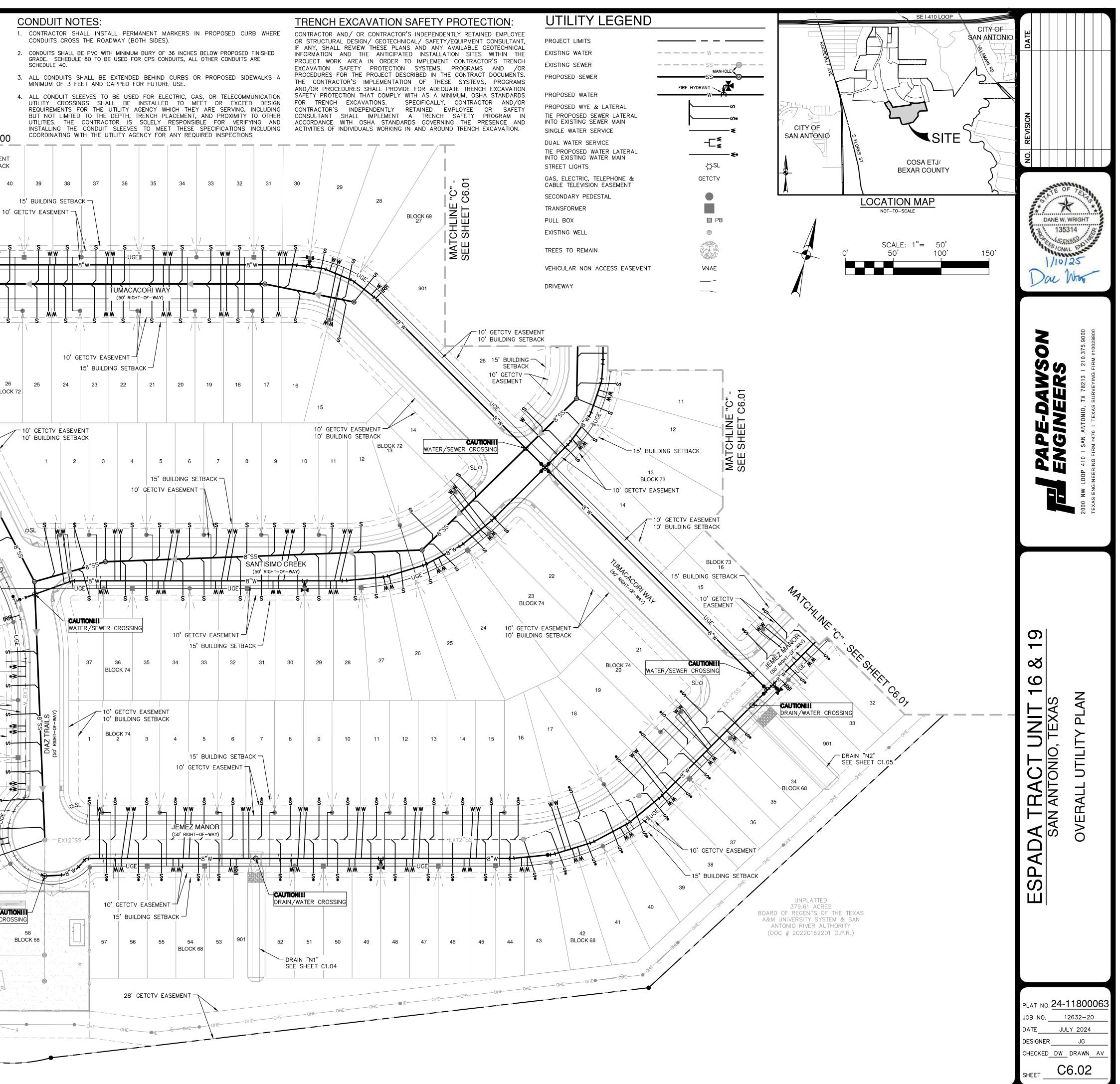
GRADE. SCHEDULE 80 TO BE USED FOR CPS CONDUITS, ALL OTHER CONDUITS ARE SCHEDULE 40.

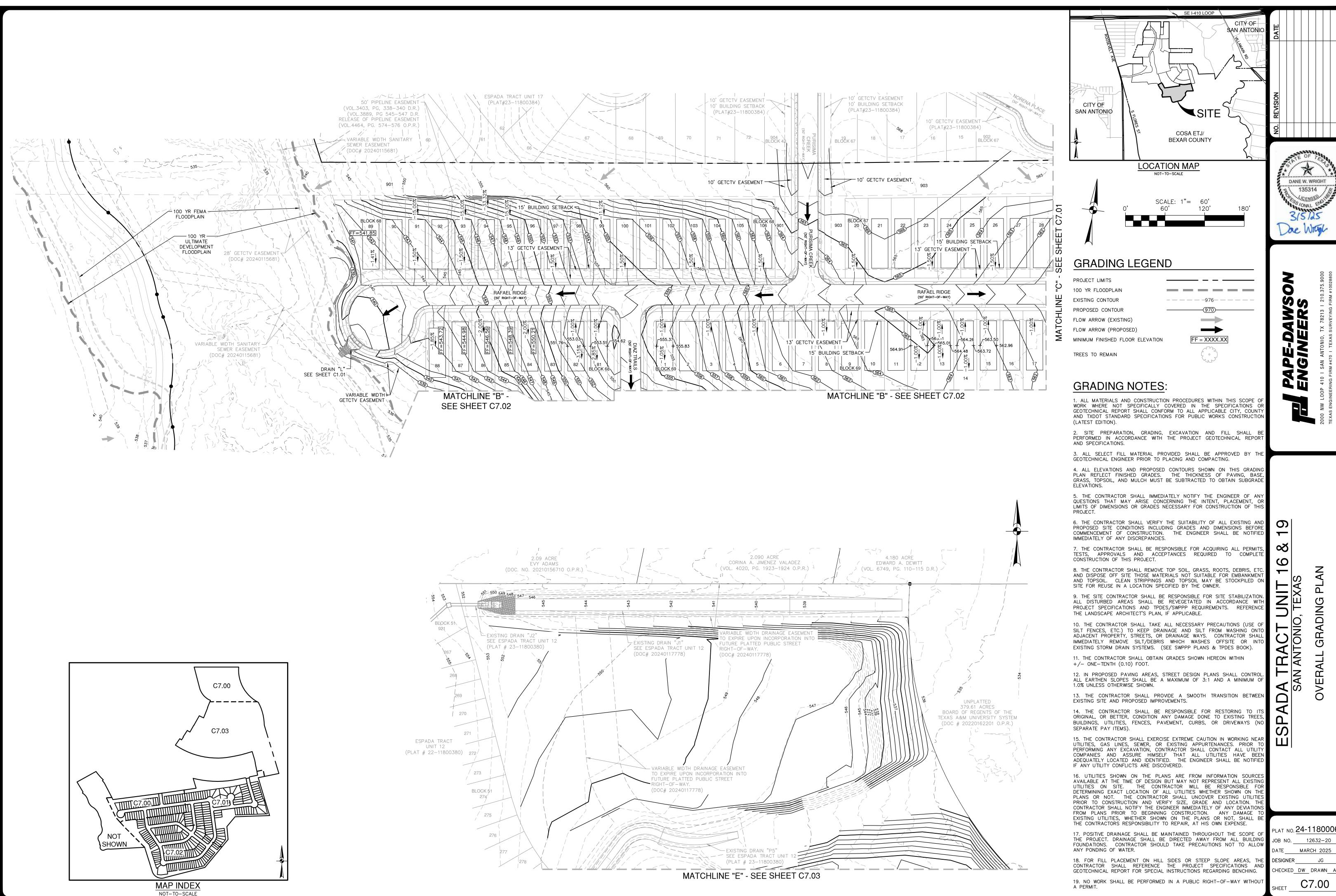
MINIMUM OF 3 FEET AND CAPPED FOR FUTURE USE.

BUT NOT LIMITED TO THE DEPTH, TRENCH PLACEMENT, AND PROXIMITY TO OTHER COORDINATING WITH THE UTILITY AGENCY FOR ANY REQUIRED INSPECTIONS



SINGLE WATER SERVICE DUAL WATER SERVICE STREET LIGHTS SECONDARY PEDESTAL TRANSFORMER PULL BOX EXISTING WELL TREES TO REMAIN

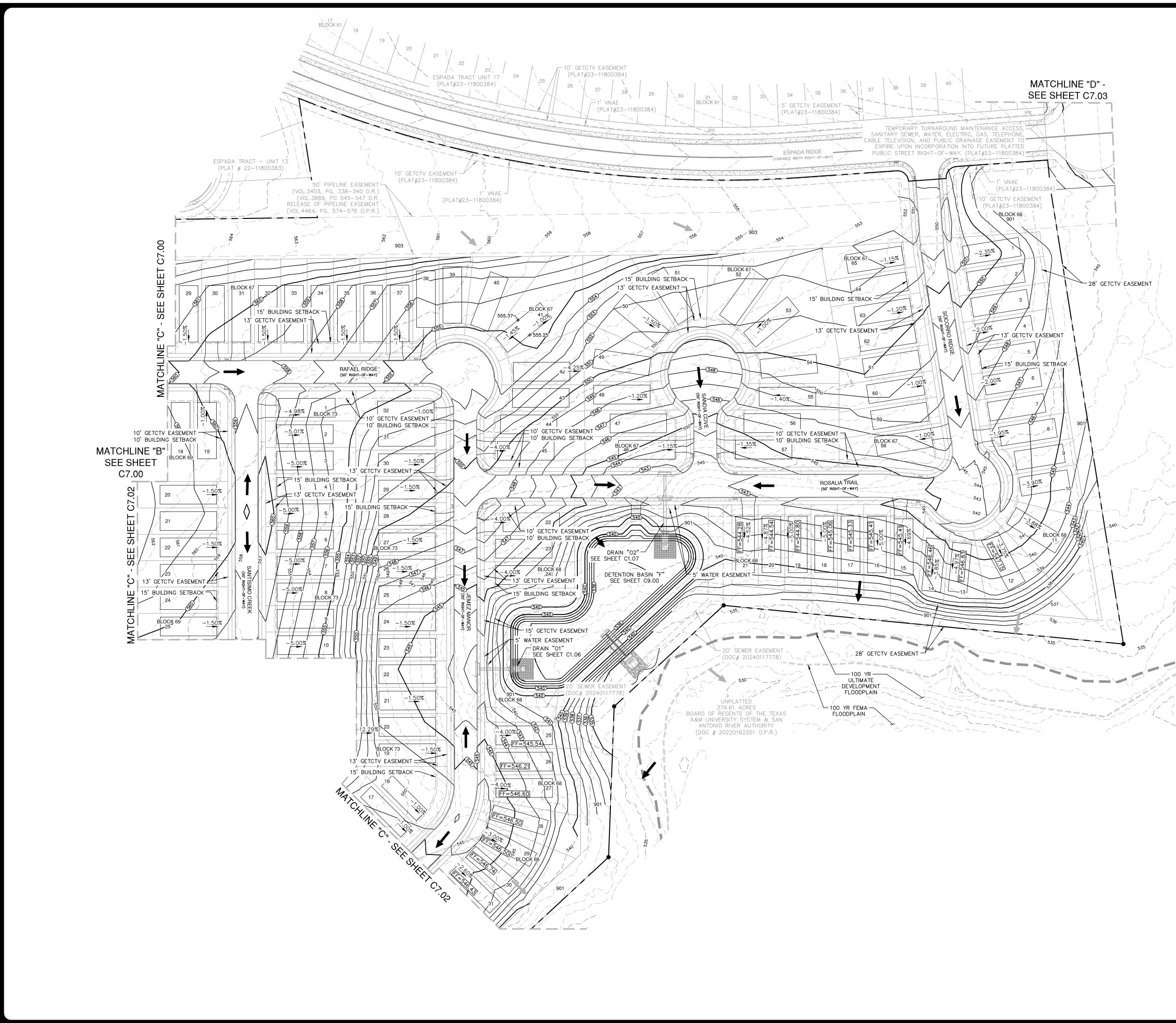


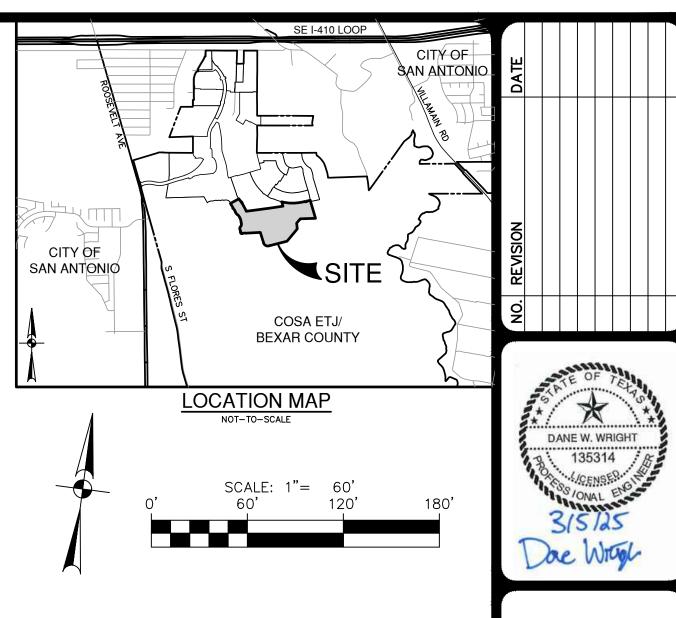


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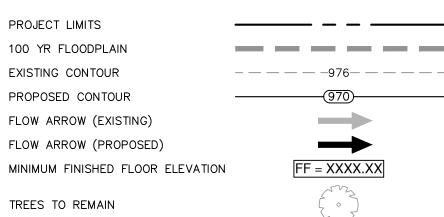
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ESPADA I RACI UNII 16	SAN ANTONIO, TEXAS	OVERALL GRADING PLAN	
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PLAT NO.	24-	11800	<u>063</u>
JOB NO	1	2632-20)
DATE	MAF	RCH 2025	5
DESIGNER		JG	
CHECKED_	DW	DRAWN_	AV
SHEET	С	7.00	





GRADING LEGEND



GRADING NOTES:

1. ALL MATERIALS AND CONSTRUCTION PROCEDURES WITHIN THIS SCOPE OF WORK WHERE NOT SPECIFICALLY COVERED IN THE SPECIFICATIONS OR GEOTECHNICAL REPORT SHALL CONFORM TO ALL APPLICABLE CITY, COUNTY AND TXDOT STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION (LATEST EDITION).

2. SITE PREPARATION, GRADING, EXCAVATION AND FILL SHALL BE PERFORMED IN ACCORDANCE WITH THE PROJECT GEOTECHNICAL REPORT AND SPECIFICATIONS.

3. ALL SELECT FILL MATERIAL PROVIDED SHALL BE APPROVED BY TH GEOTECHNICAL ENGINEER PRIOR TO PLACING AND COMPACTING.

4. ALL ELEVATIONS AND PROPOSED CONTOURS SHOWN ON THIS GRADIN PLAN REFLECT FINISHED GRADES. THE THICKNESS OF PAVING, BAS GRASS, TOPSOIL, AND MULCH MUST BE SUBTRACTED TO OBTAIN SUBGRADE ELEVATIONS.

5. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER OF ANY QUESTIONS THAT MAY ARISE CONCERNING THE INTENT, PLACEMENT, OF LIMITS OF DIMENSIONS OR GRADES NECESSARY FOR CONSTRUCTION OF THIS PROJECT.

6. THE CONTRACTOR SHALL VERIFY THE SUITABILITY OF ALL EXISTING AND PROPOSED SITE CONDITIONS INCLUDING GRADES AND DIMENSIONS BEFORE COMMENCEMENT OF CONSTRUCTION. THE ENGINEER SHALL BE NOTIFIED IMMEDIATELY OF ANY DISCREPANCIES.

7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ACQUIRING ALL PERMITS, TESTS, APPROVALS AND ACCEPTANCES REQUIRED TO COMPLETE CONSTRUCTION OF THIS PROJECT.

8. THE CONTRACTOR SHALL REMOVE TOP SOIL, GRASS, ROOTS, DEBRIS, E AND DISPOSE OFF SITE THOSE MATERIALS NOT SUITABLE FOR EMBANKMENT AND TOPSOIL. CLEAN STRIPPINGS AND TOPSOIL MAY BE STOCKPILED ON SITE FOR REUSE IN A LOCATION SPECIFIED BY THE OWNER.

9. THE SITE CONTRACTOR SHALL BE RESPONSIBLE FOR SITE STABILIZATION ALL DISTURBED AREAS SHALL BE REVEGETATED IN ACCORDANCE WITH PROJECT SPECIFICATIONS AND TPDES/SWPPP REQUIREMENTS. REFERENCE THE LANDSCAPE ARCHITECT'S PLAN, IF APPLICABLE.

10. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS (USE O SILT FENCES, ETC.) TO KEEP DRAINAGE AND SILT FROM WASHING ONTO ADJACENT PROPERTY, STREETS, OR DRAINAGE WAYS. CONTRACTOR SHALL IMMEDIATELY REMOVE SILT/DEBRIS WHICH WASHES OFFSITE OR INT EXISTING STORM DRAIN SYSTEMS. (SEE SWPPP PLANS & TPDES BOOK).

11. THE CONTRACTOR SHALL OBTAIN GRADES SHOWN HEREON WITHIN +/- ONE-TENTH (0.10) FOOT.

12. IN PROPOSED PAVING AREAS, STREET DESIGN PLANS SHALL CONTROL. ALL EARTHEN SLOPES SHALL BE A MAXIMUM OF 3:1 AND A MINIMUM OF 1.0% UNLESS OTHERWISE SHOWN.

13. THE CONTRACTOR SHALL PROVIDE A SMOOTH TRANSITION BETWEEN EXISTING SITE AND PROPOSED IMPROVEMENTS.

14. THE CONTRACTOR SHALL BE RESPONSIBLE FOR RESTORING TO IT ORIGINAL, OR BETTER, CONDITION ANY DAMAGE DONE TO EXISTING TREES BUILDINGS, UTILITIES, FENCES, PAVEMENT, CURBS, OR DRIVEWAYS (NO SEPARATE PAY ITEMS).

15. THE CONTRACTOR SHALL EXERCISE EXTREME CAUTION IN WORKING NEAR UTILITIES, GAS LINES, SEWER, OR EXISTING APPURTENANCES. PRIOR T PERFORMING ANY EXCAVATION, CONTRACTOR SHALL CONTACT ALL UTILIT COMPANIES AND ASSURE HIMSELF THAT ALL UTILITIES HAVE BEEN ADEQUATELY LOCATED AND IDENTIFIED. THE ENGINEER SHALL BE NOTIFIED IF ANY UTILITY CONFLICTS ARE DISCOVERED.

16. UTILITIES SHOWN ON THE PLANS ARE FROM INFORMATION SOURCES AVAILABLE AT THE TIME OF DESIGN BUT MAY NOT REPRESENT ALL EXISTING UTILITIES ON SITE. THE CONTRACTOR WILL BE RESPONSIBLE FOR DETERMINING EXACT LOCATION OF ALL UTILITIES WHETHER SHOWN ON TH PLANS OR NOT. THE CONTRACTOR SHALL UNCOVER EXISTING UTILITIES PRIOR TO CONSTRUCTION AND VERIFY SIZE, GRADE AND LOCATION. TH 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 B THE CONTRACTORS RESPONSIBILITY TO REPAIR, AT HIS OWN EXPENSE.

17. POSITIVE DRAINAGE SHALL BE MAINTAINED THROUGHOUT THE SCOPE OF THE PROJECT. DRAINAGE SHALL BE DIRECTED AWAY FROM ALL BUILDING FOUNDATIONS. CONTRACTOR SHOULD TAKE PRECAUTIONS NOT TO ALLOW ANY PONDING OF WATER.

18. FOR FILL PLACEMENT ON HILL SIDES OR STEEP SLOPE AREAS, T CONTRACTOR SHALL REFERENCE THE PROJECT SPECIFICATIONS AN GEOTECHNICAL REPORT FOR SPECIAL INSTRUCTIONS REGARDING BENCHING. 19. NO WORK SHALL BE PERFORMED IN A PUBLIC RIGHT-OF-WAY WITHOUT

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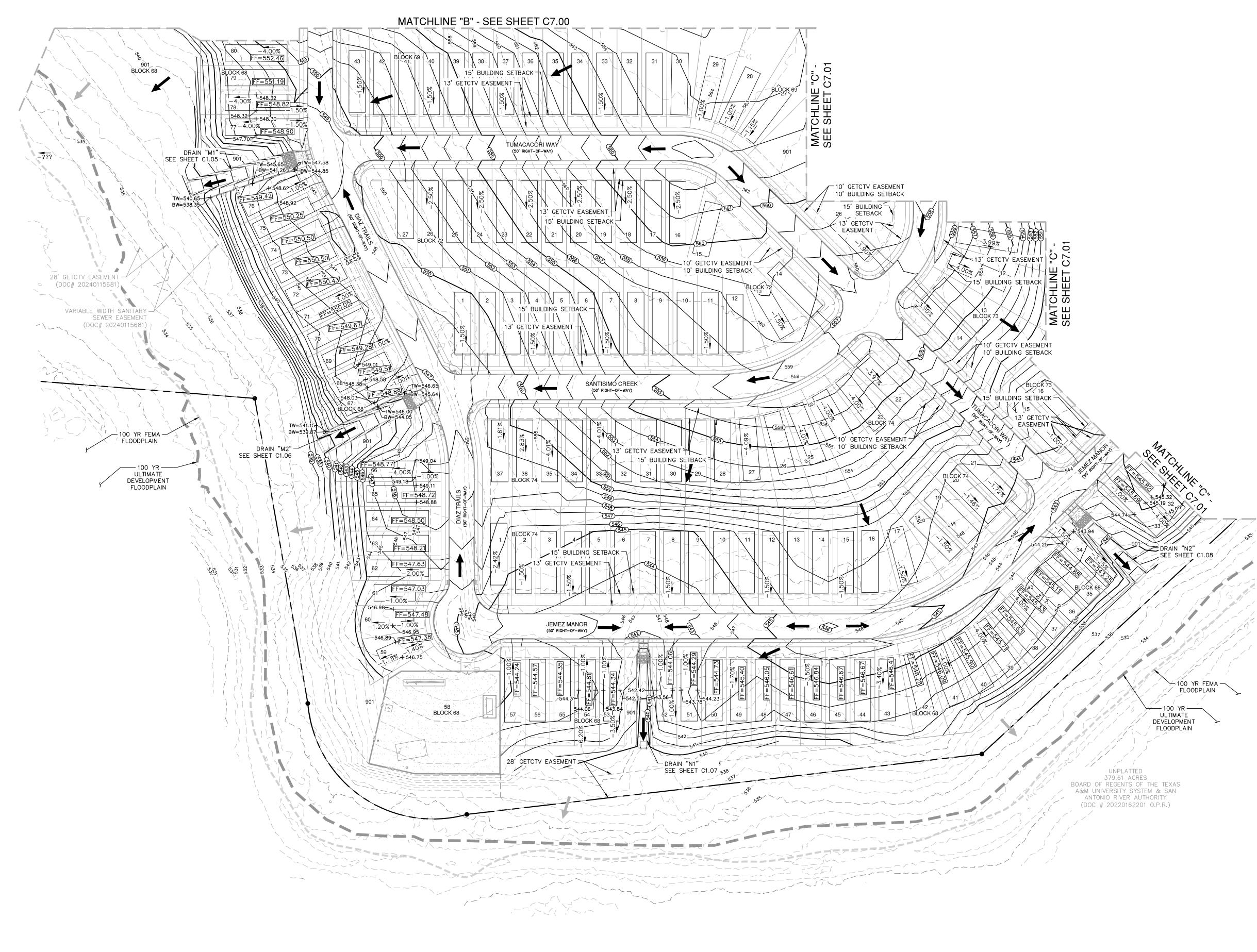
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SE I-410 LOOP CITY OF SAN ANTONI CITY OF SAN ANTONIÓ SITE COSA ETJ/ BEXAR COUNTY LOCATION MAP NOT-TO-SCALE DANE W. WRIGHT SCALE: 1'' = 60'180 315 Dae Wrigh **GRADING LEGEND** PROJECT LIMITS 100 YR FLOODPLAIN EXISTING CONTOUR PROPOSED CONTOUR FLOW ARROW (EXISTING) FLOW ARROW (PROPOSED) MINIMUM FINISHED FLOOR ELEVATION FF = XXXX.XXTREES TO REMAIN **GRADING NOTES:** 1. ALL MATERIALS AND CONSTRUCTION PROCEDURES WITHIN THIS SCOPE WORK WHERE NOT SPECIFICALLY COVERED IN THE SPECIFICATIONS C GEOTECHNICAL REPORT SHALL CONFORM TO ALL APPLICABLE CITY, COUNTY AND TXDOT STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION (LATEST EDITION). 2. SITE PREPARATION, GRADING, EXCAVATION AND FILL SHALL E PERFORMED IN ACCORDANCE WITH THE PROJECT GEOTECHNICAL REPORT AND SPECIFICATIONS. 3. ALL SELECT FILL MATERIAL PROVIDED SHALL BE APPROVED BY THE GEOTECHNICAL ENGINEER PRIOR TO PLACING AND COMPACTING. 4. ALL ELEVATIONS AND PROPOSED CONTOURS SHOWN ON THIS GRADIN PLAN REFLECT FINISHED GRADES. THE THICKNESS OF PAVING, BASE GRASS, TOPSOIL, AND MULCH MUST BE SUBTRACTED TO OBTAIN SUBGRADE ELEVATIONS. 5. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER OF ANY QUESTIONS THAT MAY ARISE CONCERNING THE INTENT, PLACEMENT, OF LIMITS OF DIMENSIONS OR GRADES NECESSARY FOR CONSTRUCTION OF THIS PROJECT. 6. THE CONTRACTOR SHALL VERIFY THE SUITABILITY OF ALL EXISTING AND တ PROPOSED SITE CONDITIONS INCLUDING GRADES AND DIMENSIONS BEFORE COMMENCEMENT OF CONSTRUCTION. THE ENGINEER SHALL BE NOTIFIED IMMEDIATELY OF ANY DISCREPANCIES. ∞ 7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ACQUIRING ALL PERMITS, TESTS, APPROVALS AND ACCEPTANCES REQUIRED TO COMPLETE CONSTRUCTION OF THIS PROJECT. 8. THE CONTRACTOR SHALL REMOVE TOP SOIL, GRASS, ROOTS, DEBRIS, ET AND DISPOSE OFF SITE THOSE MATERIALS NOT SUITABLE FOR EMBANKMENT AND TOPSOIL. CLEAN STRIPPINGS AND TOPSOIL MAY BE STOCKPILED ON SITE FOR REUSE IN A LOCATION SPECIFIED BY THE OWNER. 9. THE SITE CONTRACTOR SHALL BE RESPONSIBLE FOR SITE STABILIZATION ALL DISTURBED AREAS SHALL BE REVEGETATED IN ACCORDANCE WITH PROJECT SPECIFICATIONS AND TPDES/SWPPP REQUIREMENTS. REFERENCE THE LANDSCAPE ARCHITECT'S PLAN, IF APPLICABLE. _ 10. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS (USE OF ONIC SILT FENCES, ETC.) TO KEEP DRAINAGE AND SILT FROM WASHING ONTO ADJACENT PROPERTY, STREETS, OR DRAINAGE WAYS. CONTRACTOR SHALL IMMEDIATELY REMOVE SILT/DEBRIS WHICH WASHES OFFSITE OR INT EXISTING STORM DRAIN SYSTEMS. (SEE SWPPP PLANS & TPDES BOOK). ANT 11. THE CONTRACTOR SHALL OBTAIN GRADES SHOWN HEREON WITHIN Ω +/- ONE-TENTH (0.10) FOOT.

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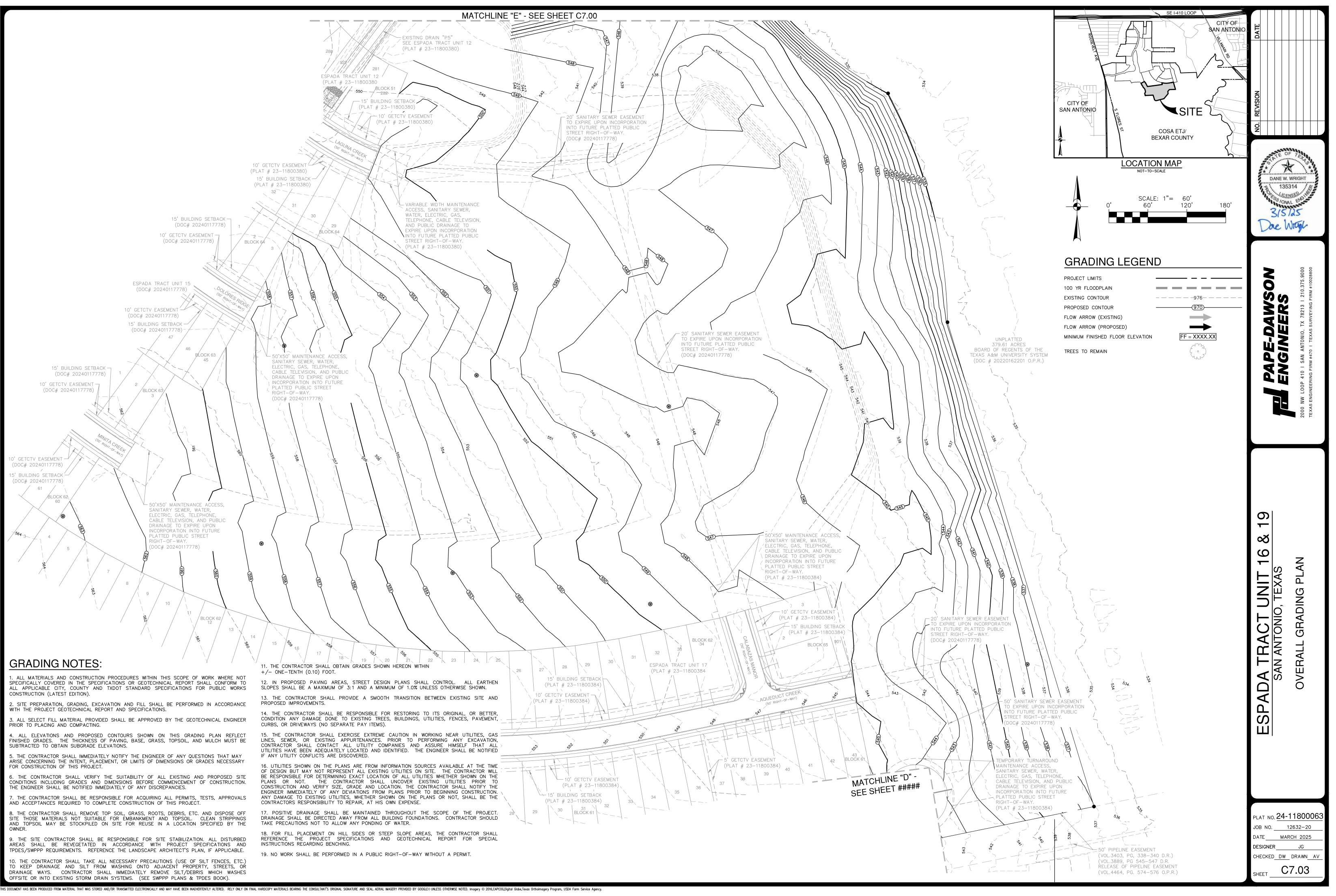
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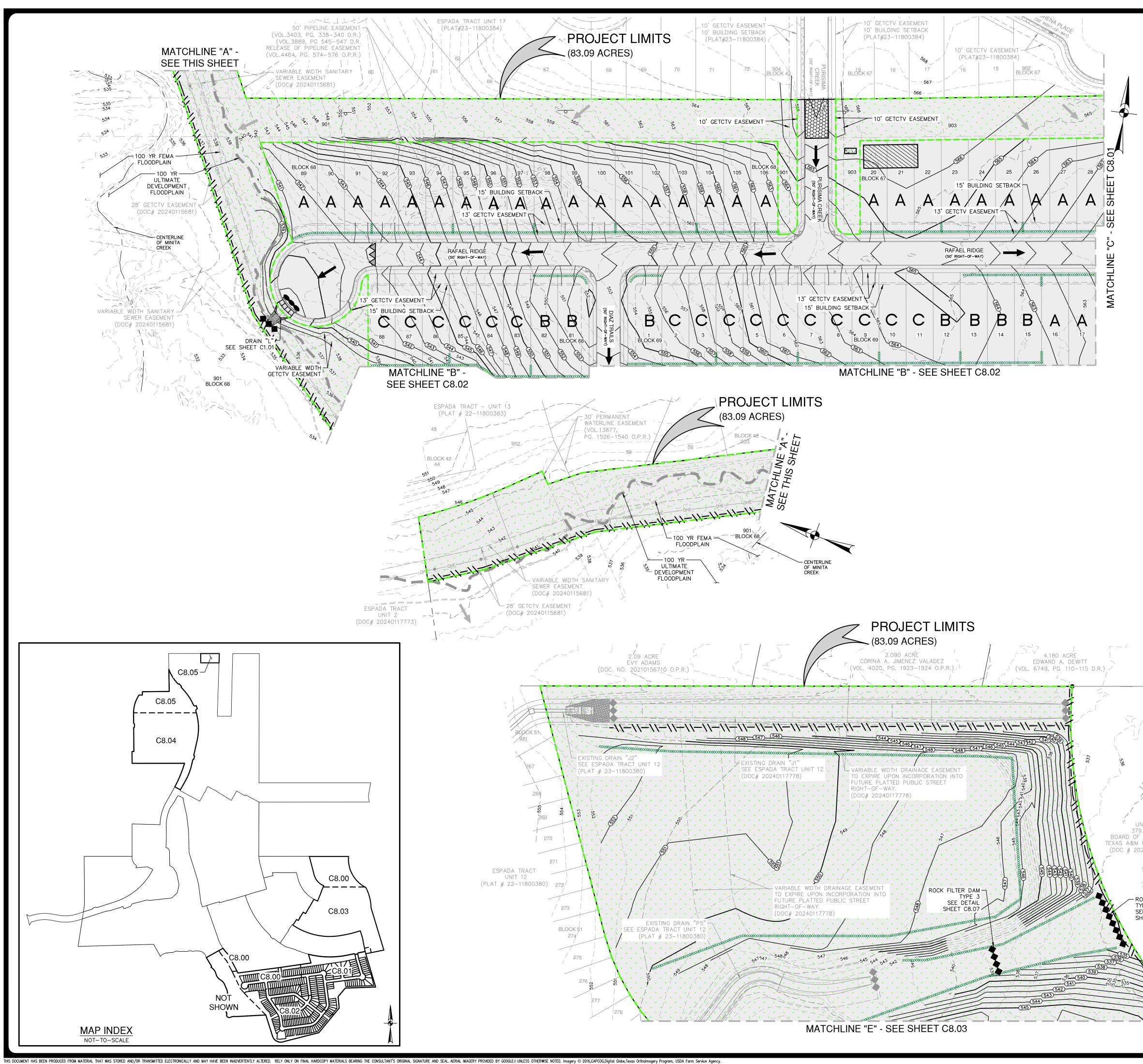
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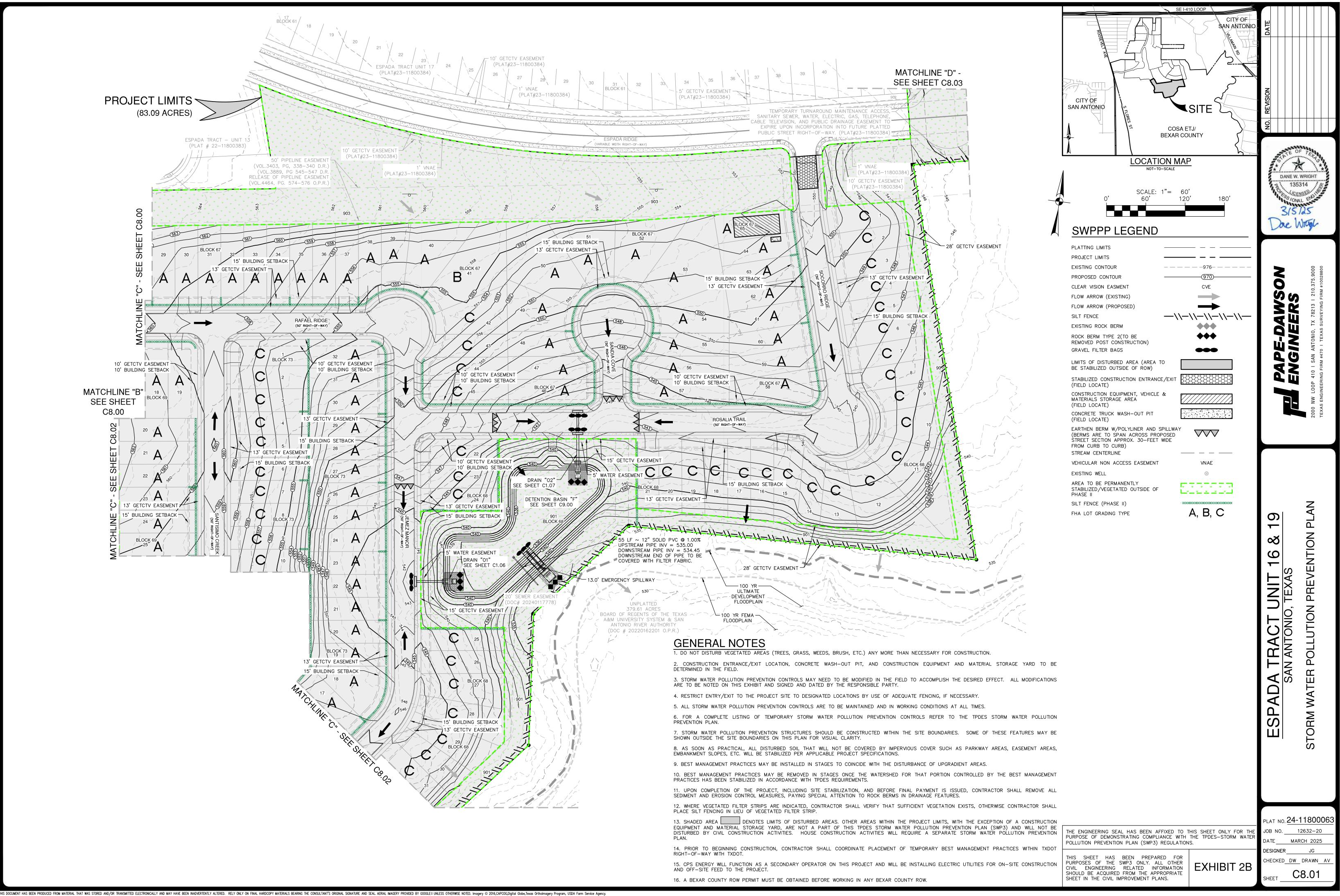
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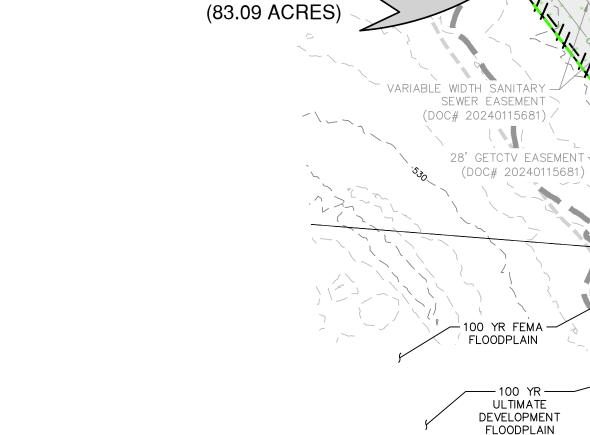
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MATCHLINE	PLATTING LIMITS	970	Loe wrige
	PROPOSED CONTOUR CLEAR VISION EASMENT FLOW ARROW (EXISTING) FLOW ARROW (PROPOSED) SILT FENCE EXISTING ROCK BERM ROCK BERM TYPE 2(TO BE REMOVED POST CONSTRUCTION) GRAVEL FILTER BAGS LIMITS OF DISTURBED AREA (AREA TO BE STABILIZED OUTSIDE OF ROW) STABILIZED CONSTRUCTION ENTRANCE/EXIT (FIELD LOCATE) CONSTRUCTION EQUIPMENT, VEHICLE & MATERIALS STORAGE AREA (FIELD LOCATE) CONCRETE TRUCK WASH-OUT PIT		PAPE-DAWSON ENGINEERS 2000 NW LOOP 410 I SAN ANTONIO, TX 78213 I 210.375.9000 texas engineering firm #470 I texas surveying firm #10028800
	(FIELD LOCATE) EARTHEN BERM W/POLYLINER AND SPILLWAY (BERMS ARE TO SPAN ACROSS PROPOSED STREET SECTION APPROX. 30-FEET WIDE FROM CURB TO CURB) STREAM CENTERLINE		2000 NW TEXAS ENG
UNPLATTED 379.61 ACRES BOARD OF REGENTS OF THE TEXAS A&M UNIVERSITY SYSTEM (DOC # 20220162201 O.P.R.) ROCK FILTER DAM TYPE 3 SEE DETAIL SHEET C8.07	 FHA LOT GRADING TYPE FHA LOT GRADING TYPE GENERAL NOTES I. DO NOT DISTURB VEGETATED AREAS (TREES, GRASS, WEEDS, THAN NECESSARY FOR CONSTRUCTION. CONSTRUCTION ENTRANCE/EXIT LOCATION, CONCRETE CONSTRUCTION EQUIPMENT AND MATERIAL STORAGE YARD TO FIELD. STORM WATER POLLUTION PREVENTION CONTROLS MAY NEED FIELD TO ACCOMPLISH THE DESIRED EFFECT. ALL MODIFICATION THIS EXHIBIT AND SIGNED AND DATED BY THE RESPONSIBLE PAR' RESTRICT ENTRY/EXIT TO THE PROJECT SITE TO DESIGNATE ADEQUATE FENCING, IF NECESSARY. ALL STORM WATER POLLUTION PREVENTION CONTROLS ARE TWORKING CONDITIONS AT ALL TIMES. FOR A COMPLETE LISTING OF TEMPORARY STORM WATER CONTROLS REFER TO THE TPDES STORM WATER POLLUTION PREVENTION STRUCTURES SHOULD THE SITE BOUNDARIES. SOME OF THESE FEATURES MAY BE SOUNDARIES ON THIS PLAN FOR VISUAL CLARITY. AS SOON AS PRACTICAL, ALL DISTURED SOIL THAT WIL MYPERVIOS COVER SUCH AS PARKWAY AREAS, EASEMENT ARE ETC. WILL BE STABILIZED PER APPLICABLE PROJECT SPECIFICATION DEST MANAGEMENT PRACTICES MAY BE INSTALLED IN STAGE DISTURBANCE OF UPGRADIENT AREAS. BEST MANAGEMENT PRACTICES MAY BE INSTALLED IN STAGE DISTURBANCE OF UPGRADIENT AREAS. BEST MANAGEMENT PRACTICES MAY BE INSTALLED IN STAGE DISTURBANCE OF UPGRADIENT AREAS. BEST MANAGEMENT PRACTICES MAY BE INSTALLED IN STAGE DISTURBANCE OF UPGRADIENT AREAS. BEST MANAGEMENT PRACTICES MAY BE INSTALLED IN STAGE DISTURBANCE OF UPGRADIENT AREAS. BEST MANAGEMENT PRACTICES MAY BE INSTALLED IN STAGE STABILIZED IN ACCORDANCE WITH TPDES REQUIREMENTS. UPON COMPLETION OF THE PROJECT, INCLUDING SITE STABILIZ PAYMENT IS ISSUED, CONTRACTOR SHALL REMOVE ALL SEDIMENT MEASURES, PAYING SPECIAL ATTENTION TO ROCK BERMS IN DRAIN ULL OF VEGETATED FILTER STRIPS ARE INDICATED, CONTRACTOR SHALL LEU OF VEGETATED FILTER STRIPS ARE INDICATED, CONTRUCTION STORAGE YARD, ARE NOT A PART OF THIS TPDES STORM WATE PROJECT INMITS, WITH THE EXCEPTION OF A CONSTRUCTION	WASH-OUT PIT, AND BE DETERMINED IN THE O TO BE MODIFIED IN THE NS ARE TO BE NOTED ON TY. D LOCATIONS BY USE OF TO BE MAINTAINED AND IN R POLLUTION PREVENTION ENTION PLAN. BE CONSTRUCTED WITHIN SHOWN OUTSIDE THE SITE L NOT BE COVERED BY AS, EMBANKMENT SLOPES, NS. ES TO COINCIDE WITH THE ES ONCE THE WATERSHED IT PRACTICES HAS BEEN CATION, AND BEFORE FINAL IT AND EROSION CONTROL NAGE FEATURES. CTOR SHALL VERIFY THAT L PLACE SILT FENCING IN EAS. OTHER AREAS WITHIN EQUIPMENT AND MATERIAL ER POLLUTION PREVENTION CTION ACTIVITIES. HOUSE TORM WATER POLLUTION CORDINATE PLACEMENT OF OF-WAY WITH TXDOT. N THIS PROJECT AND WILL I AND OFF-SITE FEED TO	ESPADA TRACT UNIT 16 & 19 SAN ANTONIO, TEXAS STORM WATER POLLUTION PREVENTION PLAN
	THE ENGINEERING SEAL HAS BEEN AFFIXED TO T PURPOSE OF DEMONSTRATING COMPLIANCE WITH POLLUTION PREVENTION PLAN (SWP3) REGULATION THIS SHEET HAS BEEN PREPARED FOR	THIS SHEET ONLY FOR THE THE TPDES-STORM WATER	PLAT NO. 24-11800063 JOB NO. 12632-20 DATE MARCH 2025 DESIGNER JG
	PURPOSES OF THE SWP3 ONLY. ALL OTHER CIVIL ENGINEERING RELATED INFORMATION SHOULD BE ACQUIRED FROM THE APPROPRIATE SHEET IN THE CIVIL IMPROVEMENT PLANS.	EXHIBIT 2A	CHECKED DW DRAWN AV





PROJECT LIMITS

GENERAL NOTES

1. DO NOT DISTURB VEGETATED AREAS (TREES, GRASS, WEEDS, BRUSH, ETC.) ANY MORE THAN NECESSARY FOR CONSTRUCTION. 2. CONSTRUCTION ENTRANCE/EXIT LOCATION, CONCRETE WASH-OUT PIT, AND CONSTRUCTION

EQUIPMENT AND MATERIAL STORAGE YARD TO BE DETERMINED IN THE FIELD. 3. STORM WATER POLLUTION PREVENTION CONTROLS MAY NEED TO BE MODIFIED IN THE FIELD TO ACCOMPLISH THE DESIRED EFFECT. ALL MODIFICATIONS ARE TO BE NOTED ON THIS EXHIBIT AND SIGNED AND DATED BY THE RESPONSIBLE PARTY.

4. RESTRICT ENTRY/EXIT TO THE PROJECT SITE TO DESIGNATED LOCATIONS BY USE OF ADEQUATE FENCING, IF NECESSARY. 5. ALL STORM WATER POLLUTION PREVENTION CONTROLS ARE TO BE MAINTAINED AND IN WORKING

CONDITIONS AT ALL TIMES. 5. FOR A COMPLETE LISTING OF TEMPORARY STORM WATER POLLUTION PREVENTION CONTROLS REFER TO THE TPDES STORM WATER POLLUTION PREVENTION PLAN.

STORM WATER POLLUTION PREVENTION STRUCTURES SHOULD BE CONSTRUCTED WITHIN THE SITE BOUNDARIES. SOME OF THESE FEATURES MAY BE SHOWN OUTSIDE THE SITE BOUNDARIES ON THIS PLAN FOR VISUAL CLARITY.

8. AS SOON AS PRACTICAL, ALL DISTURBED SOIL THAT WILL NOT BE COVERED BY IMPERVIOUS COVER SUCH AS PARKWAY AREAS, EASEMENT AREAS, EMBANKMENT SLOPES, ETC. WILL BE STABILIZED PER APPLICABLE PROJECT SPECIFICATIONS. 9. BEST MANAGEMENT PRACTICES MAY BE INSTALLED IN STAGES TO COINCIDE WITH THE

DISTURBANCE OF UPGRADIENT AREAS. 10. BEST MANAGEMENT PRACTICES MAY BE REMOVED IN STAGES ONCE THE WATERSHED FOR THAT PORTION CONTROLLED BY THE BEST MANAGEMENT PRACTICES HAS BEEN STABILIZED IN ACCORDANCE WITH TPDES REQUIREMENTS.

11. UPON COMPLETION OF THE PROJECT, INCLUDING SITE STABILIZATION, AND BEFORE FINAL PAYMENT IS ISSUED, CONTRACTOR SHALL REMOVE ALL SEDIMENT AND EROSION CONTROL MEASURES, PAYING SPECIAL ATTENTION TO ROCK BERMS IN DRAINAGE FEATURES.

WHERE VEGETATED FILTER STRIPS ARE INDICATED, CONTRACTOR SHALL VERIFY THAT SUFFICIENT VEGETATION EXISTS, OTHERWISE CONTRACTOR SHALL PLACE SILT FENCING IN LIEU OF VEGETATED FILTER STRIP.

I.3. SHADED AREA ______ DENOTES LIMITS OF DISTURBED AREAS. OTHER AREAS WITHIN THE PROJECT LIMITS, WITH THE EXCEPTION OF A CONSTRUCTION EQUIPMENT AND MATERIAL STORAGE YARD. ARE NOT A PART OF THIS TPDES STORM WATER POLLUTION PREVENTION PLAN (SWP3) AND WILL NOT BE DISTURBED BY CIVIL CONSTRUCTION ACTIVITIES. HOUSE CONSTRUCTION ACTIVITIES WILL REQUIRE A SEPARATE STORM WATER POLLUTION PREVENTION PLAN.

14. PRIOR TO BEGINNING CONSTRUCTION, CONTRACTOR SHALL COORDINATE PLACEMENT OF TEMPORARY BEST MANAGEMENT PRACTICES WITHIN TXDOT RIGHT-OF-WAY WITH TXDOT.

15. CPS ENERGY WILL FUNCTION AS A SECONDARY OPERATOR ON THIS PROJECT AND WILL BE INSTALLING ELECTRIC UTILITIES FOR ON-SITE CONSTRUCTION AND OFF-SITE FEED TO THE PROJECT. I6. A BEXAR COUNTY ROW PERMIT MUST BE OBTAINED BEFORE WORKING IN ANY BEXAR COUNTY ROW.

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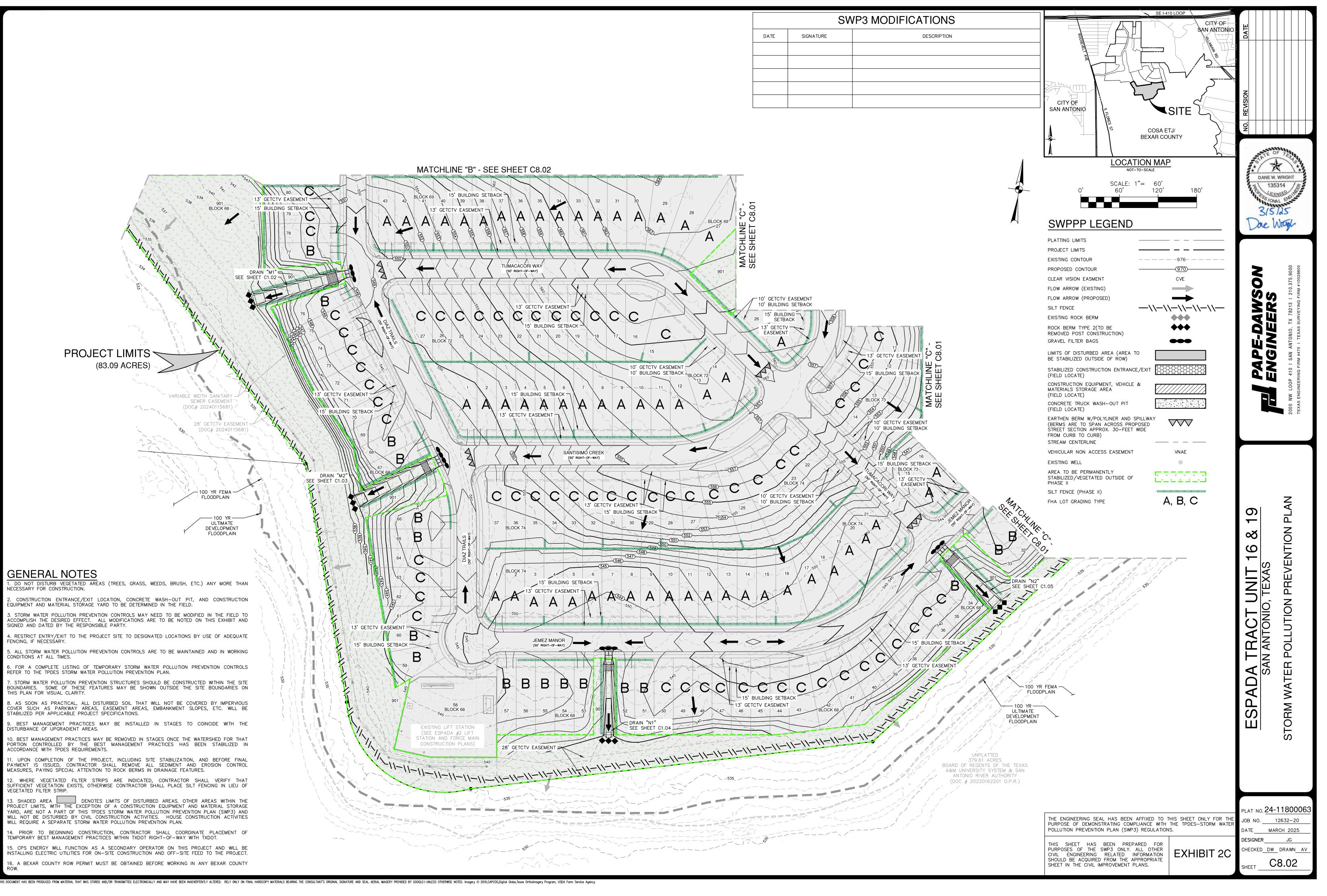
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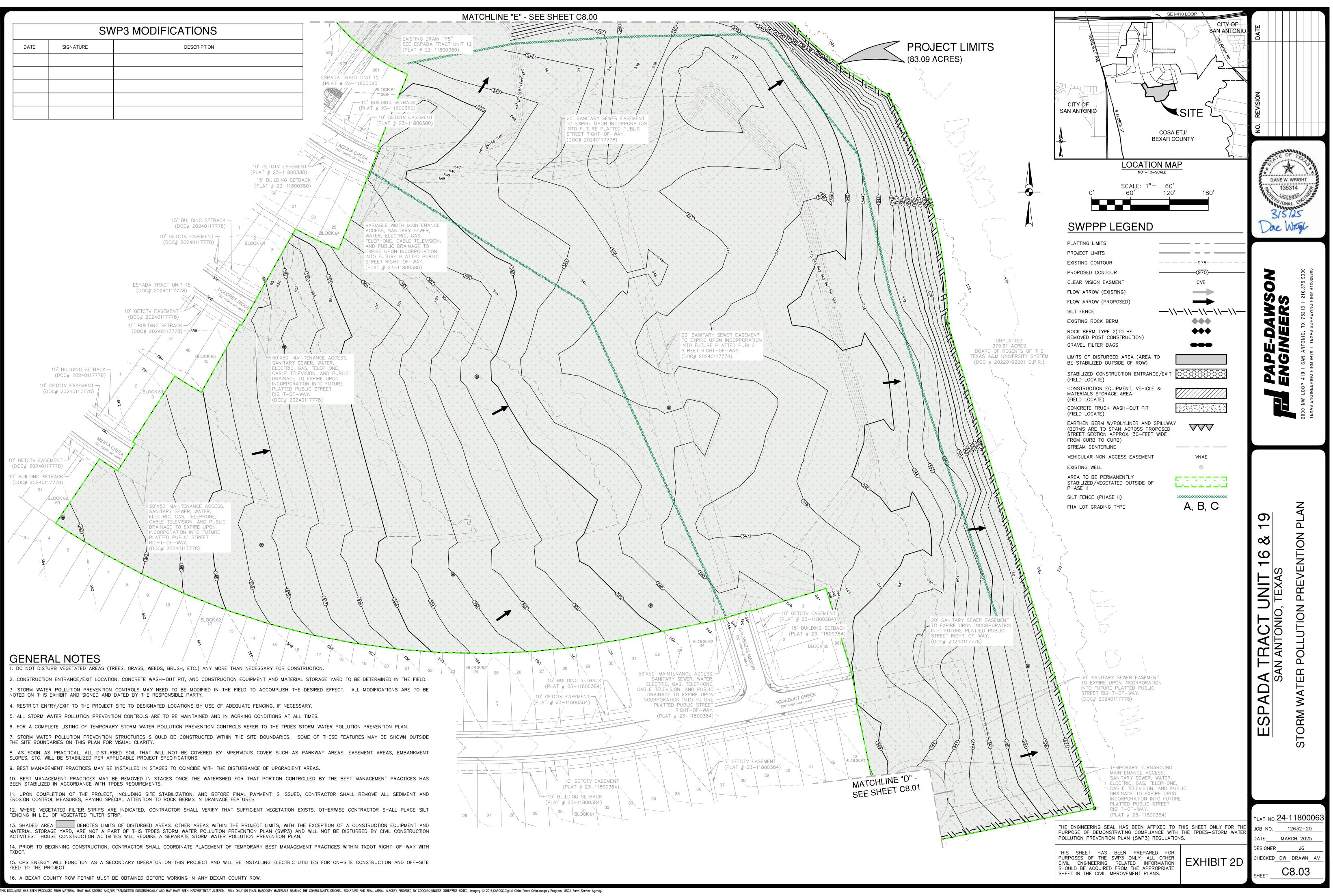
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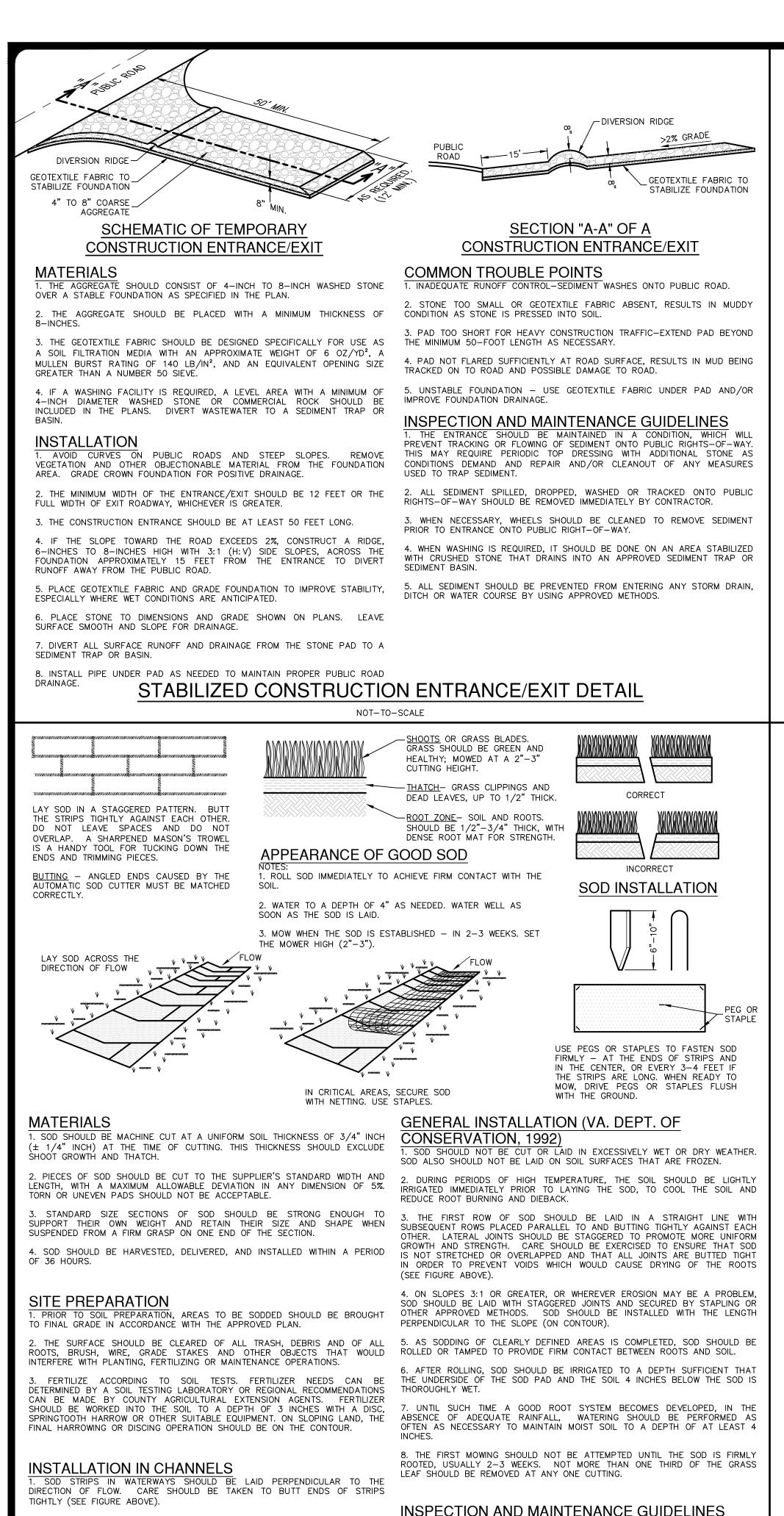
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AFTER ROLLING OR TAMPING, SOD SHOULD BE PEGGED OR STAPLED TO RESIST WASHOUT DURING THE ESTABLISHMENT PERIOD. MESH OR OTHER NETTING MAY BE PEGGED OVER THE SOD FOR EXTRA PROTECTION IN CRITICAL AREAS.

SOD INSTALLATION DETAIL

LOCATE AND REPAIR ANY DAMAGE.

SOON AS PRACTICAL.

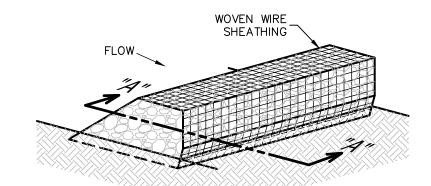
SOD SHOULD BE INSPECTED WEEKLY AND AFTER EACH RAIN EVENT TO

. DAMAGE FROM STORMS OR NORMAL CONSTRUCTION ACTIVITIES SUCH AS TIRE

RUTS OR DISTURBANCE OF SWALE STABILIZATION SHOULD BE REPAIRED AS

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NOT-TO-SCALE



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 BY THE RESPONSIBLE PARTY. FOR INSTALLATIONS IN STREAMBEDS, ADDITIONAL DAILY INSPECTIONS SHOULD BE

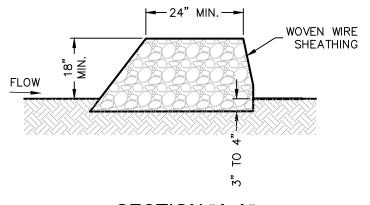
MADE. . REMOVE SEDIMENT AND OTHER DEBRIS WHEN BUILDUP REACHES 6 INCHES AND DISPOSE OF THE ACCUMULATED SILT IN AN APPROVED MANNER THAT

WILL NOT CAUSE ANY ADDITIONAL SILTATION. 3. REPAIR ANY LOOSE WIRE SHEATHING.

4. THE BERM SHOULD BE RESHAPED AS NEEDED DURING INSPECTION

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

I. 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.

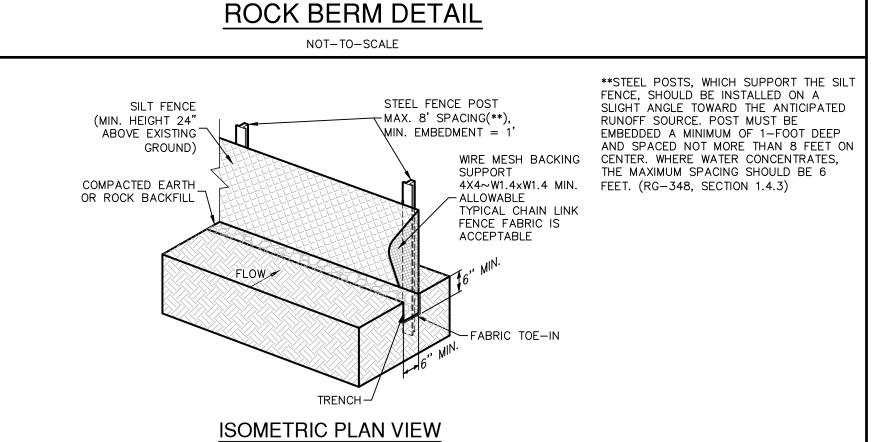
5. BERM SHOULD BE BUILT ALONG THE CONTOUR AT ZERO PERCENT GRADE OR AS NEAR AS POSSIBLE

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).



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

. 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

1. INSPECT ALL FENCING WEEKLY.

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).

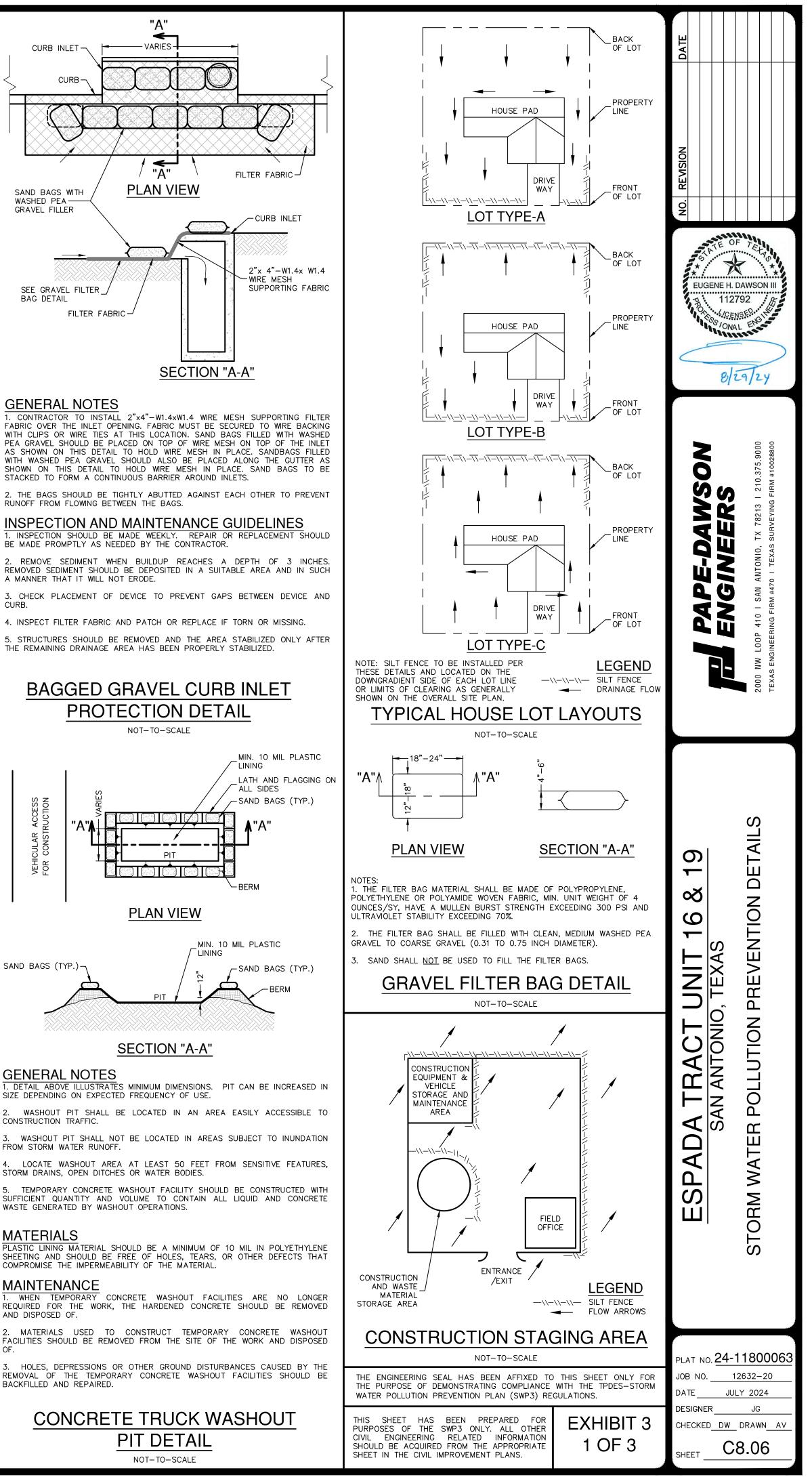
INSPECTION AND MAINTENANCE GUIDELINES

REMOVE SEDIMENT WHEN BUILDUP APPROACHES 6 INCHES, BUT NOT TO EXCEED 50% OF HEIGHT.

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.



SAND BAGS (TYP.)

FROM STORM WATER RUNOFF.

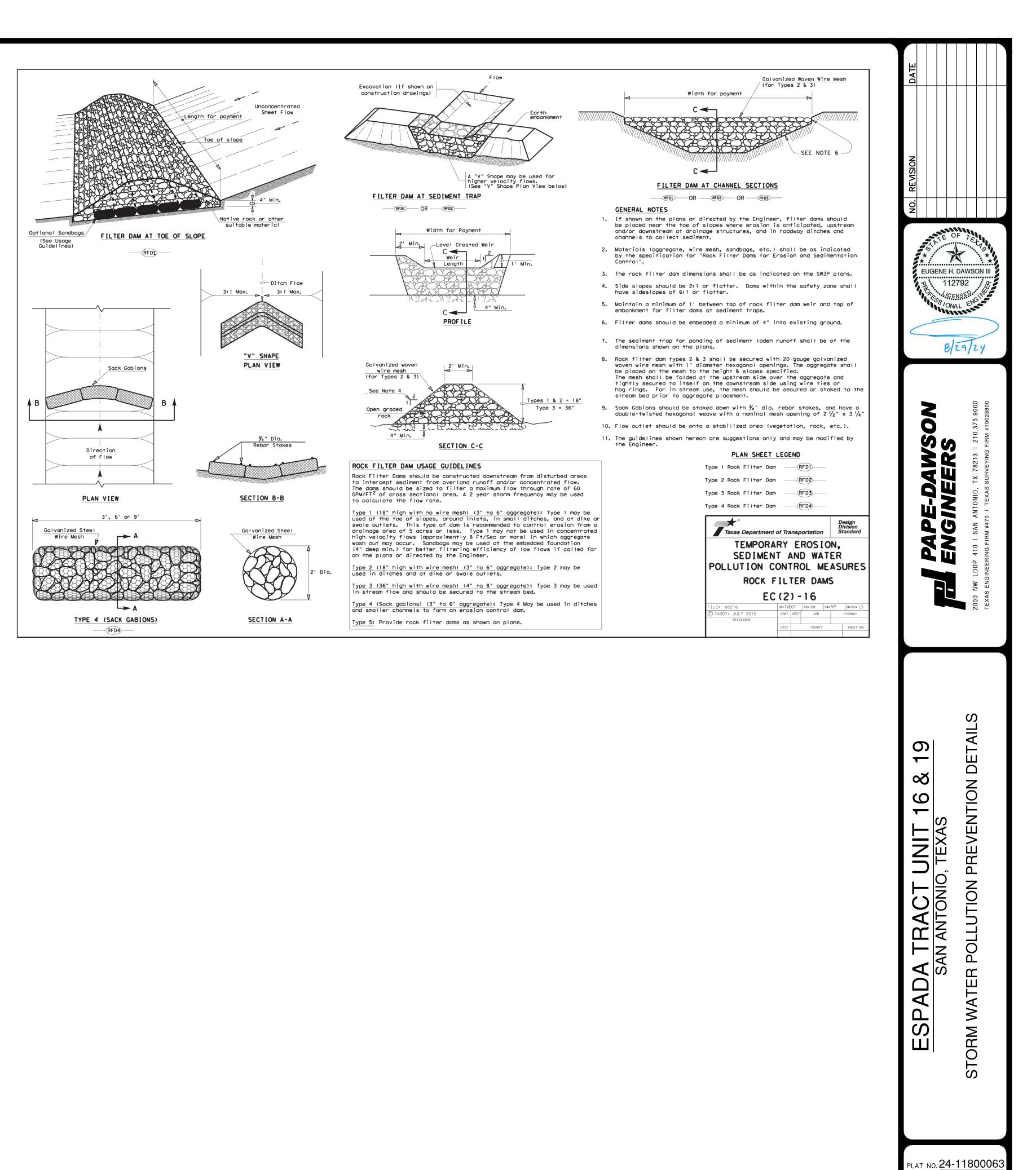
MATERIALS

MAINTENANCE

BACKFILLED AND REPAIRED.

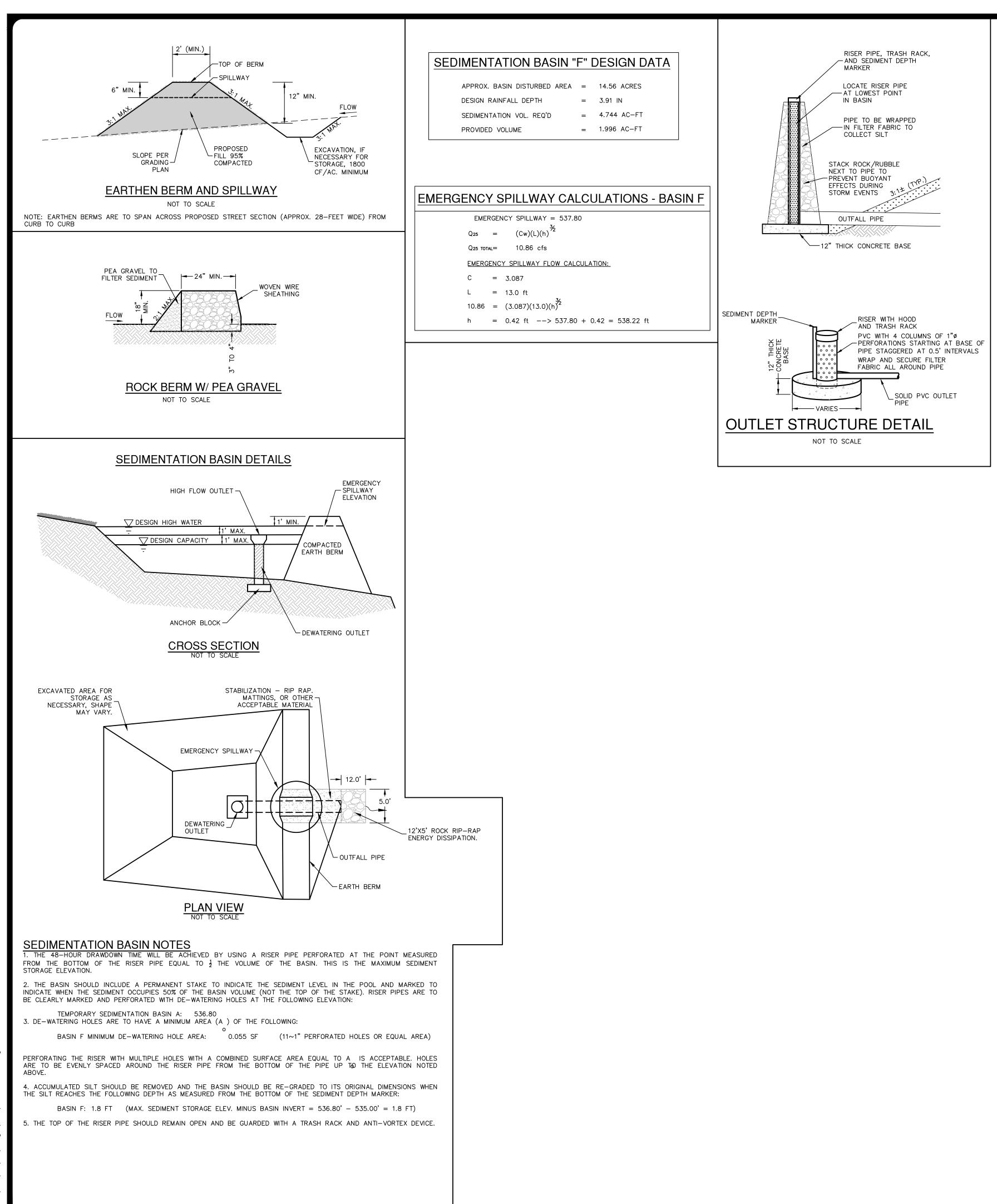
SILT FENCE DETAIL

NOT-TO-SCALE



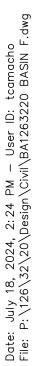
HE ENGINEERING SEAL HAS BEEN AFFIXED TO THIS SHEET ONLY FOR			12632-20	
HE PURPOSE OF DEMONSTRATING COMPLIANCE WITH THE TPDES-STORM VATER POLLUTION PREVENTION PLAN (SWP3) REGULATIONS.		DATE	JULY 2024	
		DESIGNER	JG	
HIS SHEET HAS BEEN PREPARED FOR URPOSES OF THE SWP3 ONLY, ALL OTHER	EXHIBIT 3	- CHECKED_	DW_DRAWN_	4V
IVIL ENGINEERING RELATED INFORMATION HOULD BE ACQUIRED FROM THE APPROPRIATE	2 OF 3		C8.07	
HEET IN THE CIVIL IMPROVEMENT PLANS.	2010	SHEET	00.07	

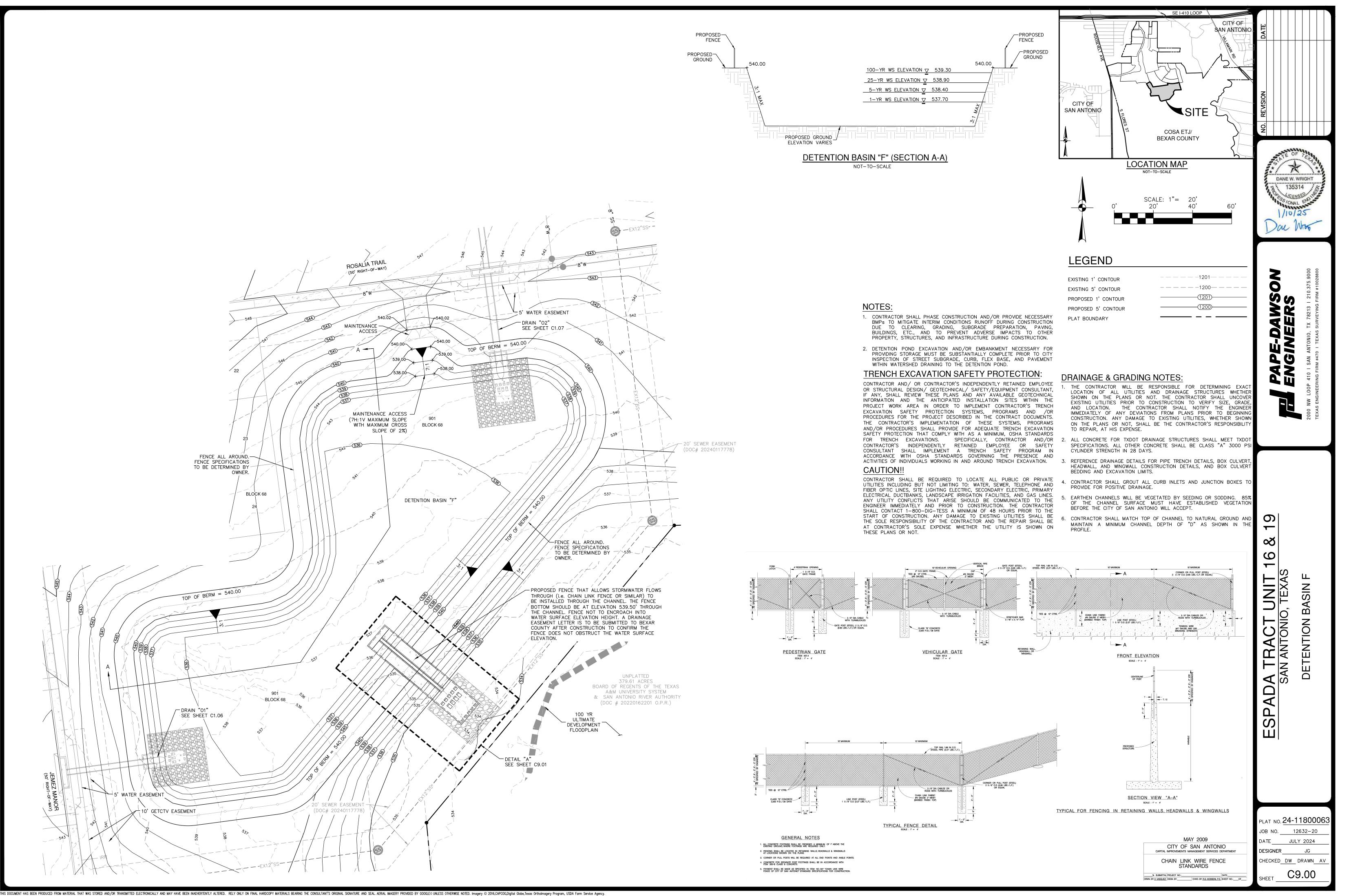
CIVIL ENGINEERING RELATED INFORMATION SHOULD BE ACQUIRED FROM THE APPROPRIATE SHEET IN THE CIVIL IMPROVEMENT PLANS.

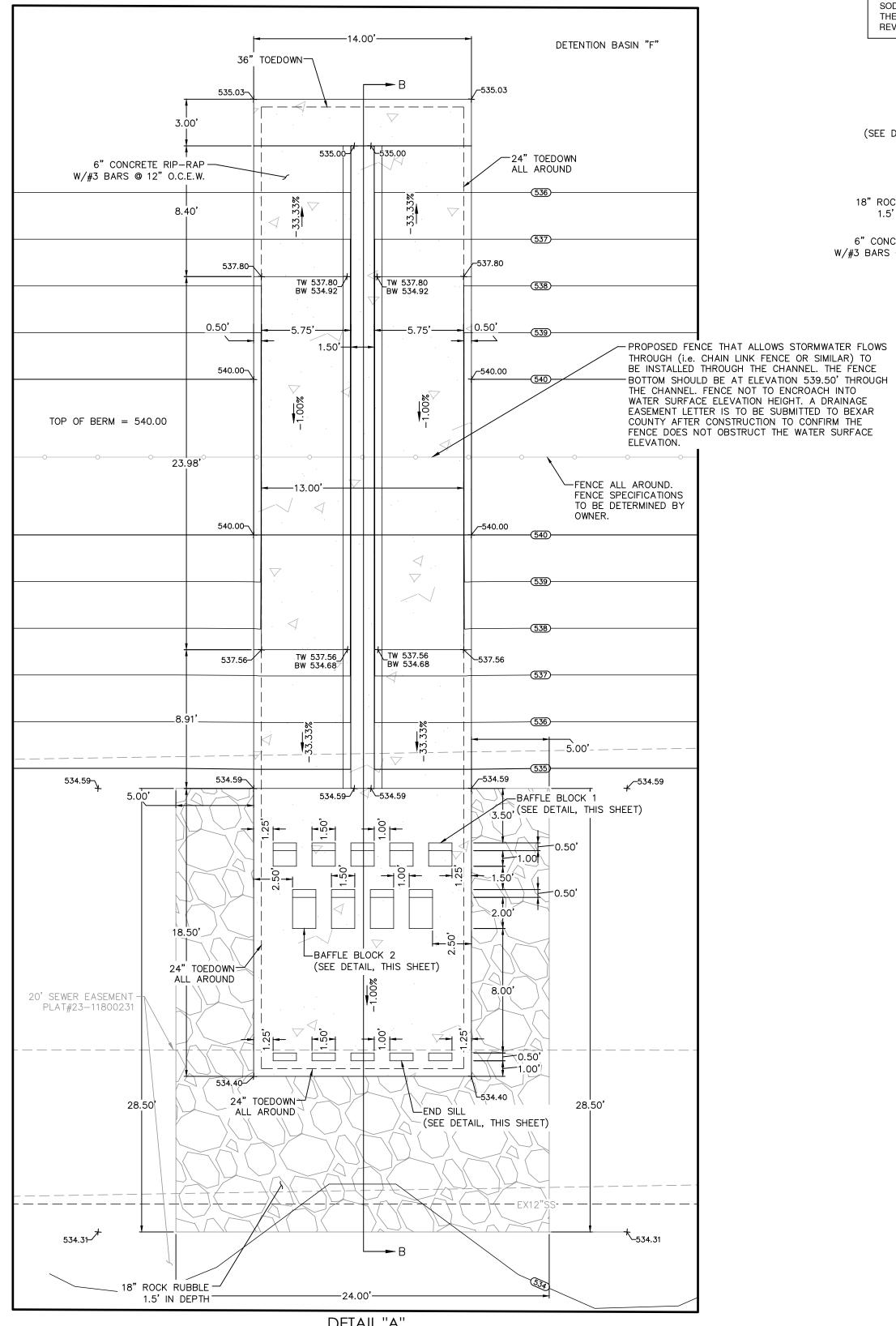


		OF 754 A DAWSON III 2792 ENSEP- VAL ENG VAL ENG
	FI FAPE-DAWSON	2000 NW LOOP 410 I SAN ANTONIO, TX 78213 I 210.375.9000 TEXAS ENGINEERING FIRM #470 I TEXAS SURVEYING FIRM #10028800
	ESPADA TRACT UNIT 16 & 19 SAN ANTONIO, TEXAS	STORM WATER POLLUTION PREVENTION DETAILS
RV	JOB NO DATEJ DESIGNER CHECKEDDW	ULY 2024

THE ENGINEERING SEAL HAS BEEN AFFIXED TO	
THE ENGINEERING SEAL HAS BEEN AFFIAED TO THE PURPOSE OF DEMONSTRATING COMPLIANCE WATER POLLUTION PREVENTION PLAN (SWP3) RE	WITH THE TPDES-STOR
THIS SHEET HAS BEEN PREPARED FOR PURPOSES OF THE SWP3 ONLY. ALL OTHER CIVIL ENGINEERING RELATED INFORMATION SHOULD BE ACQUIRED FROM THE APPROPRIATE SHEET IN THE CIVIL IMPROVEMENT PLANS.	EXHIBIT 3 3 OF 3







DETAIL "A" SCALE: 1" = 5'

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