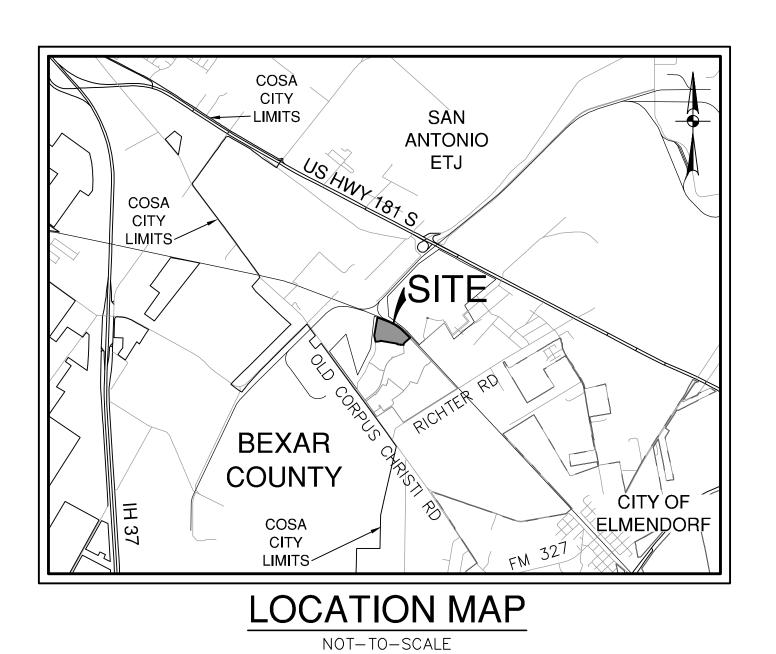
STONE GARDEN - UNIT 3B

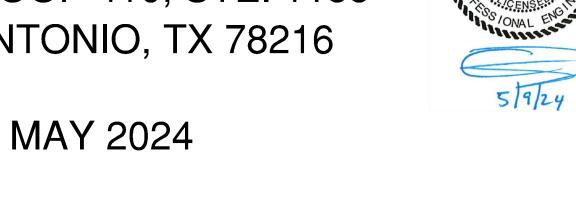
SAN ANTONIO, TEXAS

CIVIL CONSTRUCTION PLANS | Sheet Title | Sh



PREPARED FOR:

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



Number_	Sheet Title
C0.00	COVER SHEET
C1.00	OVERALL DRAINAGE PLAN (ULTIMATE DEVELOPMENT)
C1.01	DRAIN F PLAN & PROFILE (STA. 1+15.00 TO END)
C1.02	DRAIN G PLAN & PROFILE (STA. 1+16.45 TO END)
C1.03	DRAIN H PLAN & PROFILE (STA. 1+15.00 TO END)
C1.04	INTERCEPTOR DRAIN P3 PLAN & PROFILE (STA. 1+15.00 TO 5+00.00)
C1.05	INTERCEPTOR DRAIN P3 PLAN & PROFILE (STA. 5+00.00 TO END)
C1.06	DRAINAGE DETAILS
C2.00	LAMPROITE GARDEN PLAN & PROFILE (STA. 4+77.72 TO END)
C2.01	ICELANDITE WAY PLAN & PROFILE (STA. 3+53.11 TO END)
C2.02	ESSEXITE COVE PLAN & PROFILE (STA. 1+50.00 TO END)
C2.03	DOLOMITE PLACE PLAN & PROFILE (STA. 1+14.68 TO END)
C2.04	GRITSTONE COVE PLAN & PROFILE (STA. 1+51.86 TO END)
C2.05	DIABASE PLACE PLAN & PROFILE (STA. 1+50.00 TO END)
C2.06	STREET DETAILS
C2.07	STREET DETAILS
C2.08	STREET DETAILS
C3.00	OVERALL SIGNAGE PLAN
C3.01	OVERALL SIGNAGE DETAILS
C3.02	OVERALL SIGNAGE DETAILS
C3.03	OVERALL SIGNAGE DETAILS
C4.00	OVERALL WATER DISTRIBUTION PLAN
C4.01	OVERALL WATER DISTRIBUTION DETAILS
C4.02	OVERALL WATER DISTRIBUTION NOTES
C5.00	OVERALL SANITARY SEWER PLAN
C5.01	SANITARY SEWER LINE M PLAN & PROFILE (STA. 27+76.00 TO END)
C5.02	SANITARY SEWER LINE N PLAN & PROFILE (STA. 24+71.00 TO 33+50.00)
C5.03	SANITARY SEWER LINE N PLAN & PROFILE (STA. 33+50.00 TO END)
C5.04	SANITARY SEWER LINE Y PLAN & PROFILE (STA. 1+00.00 TO END)
C5.05	SANITARY SEWER LINE Z PLAN & PROFILE (STA. 1+00.00 TO END)
C5.06	OVERALL SANITARY SEWER DETAILS
C5.07	OVERALL SANITARY SEWER NOTES
C6.00	OVERALL UTILITY PLAN
C7.00	OVERALL GRADING PLAN
C8.00	STORM WATER POLLUTION PREVENTION PLAN
C8.01	STORM WATER POLLUTION PREVENTION DETAILS

PAPE-DAWSON ENGINEERS

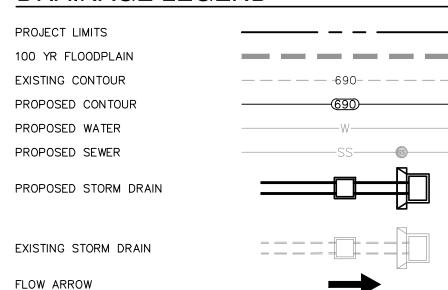
LOWER (EAST SEWERSHED-SALADO CREEK WRC)

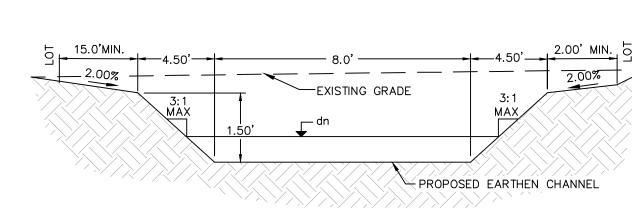
OTAL LINEAR FOOTAGE OF PIPE<u>: 3,614 LF ~ 8" PIPE</u>PLAT NO. <u>23–11800212</u>

WATER (SAWS PRESSURE ZONE 750)

DEVELOPER'S NAME: LENNAR HOMES OF TEXAS TOTAL LINEAR FOOTAGE OF PIPE: 4,076 L.F. ~ 8"PVC PLAT NO.23-1180021:

					Master Draina	ge Plan Calcula Development)	ations														COSA CITY LIMITS	SAN ANTONIO ETJ	DATE
		Structure /	Drainage		Overland/Shee	Shallow Conce	entrated Flow -	Channelized Flov		ational Method Q= urve: CoSA_A14	PA4									COSA CITY LIMITS	Hwyte	318	
P		Description	#	Area (Ac) C	L _O S _O T (FT) (ft/ft) (M	Oonditior Certified (NI)	V _{SC} T _{SC} ** (FPS) (MIN)	L _{CH} V _{CH} T _{CH} (FT) (FPS) (MI	Ret Ye	ear Intensity (in/hr) C	12.7											SITE	
	.00	EXISTING DRAIN A EXISTING	A		72 100 0.04 1			315 6.0 C	13	5 8.12 00 10.14 5 5.61	17.8 22.2 13.1				Tr.	8.					(P)	CHIER RID	EVISION
	00	DRAIN B EXISTING	В		08 100 0.03 1			245 6.0 0		7.82 00 9.76 5 5.42	18.3 22.8 15.7										BEXAR COUNTY	A RIU	ÖŻ ÖŻ
	00 E	DRAIN C EXISTING	D		0 100 0.02 1 0 100 0.02 1		01 1.6 0.6	505 6.0 1	14	7.53 00 9.39 5 5.42 5 7.53	27.8 27.2 12.1 16.8				DRAIN "H" SEE SHEET C1.03	I BANGA				H 37	COSA CITY LIMITS	ELMENDORF FM 327	TE OF TELL
	. OO E	DRAIN D EXISTING	E+P1+P2+P3		05 100 0.02 1			1,105 6.0 3		9.39 5 4.30	78.5 107.9					3.00 AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA					LOCATION NOT-TO-		EUGENE H. DAWSON III
	01 E	DRAIN P EXISTING DRAIN P	P1		05 100 0.02 1			1,105 6.0 3		7.34 5 4.30 5 5.91						AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA	AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA				SCAL 0' 200	LE: 1"= 200' ' 400' 600'	112792 85 1/CENSES
5	. n2	EXISTING DRAIN E	E	8.99 0.77 84	100 0.01 1	5 11 U 0.0	01 1.6 0.1	735 6.0 2	2.0 17 2	7.34 5 4.91 5 6.76	45.7 34.0 46.8			DR SEE SHEE	AIN "G" A C1.02 A A	AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA	BASE PLACE				0′ 200		Minner
5	.03 E	EXISTING DRAIN P2	P2+P3	6.23 0.81 10	50 100 0.01 1	5 40 U 0.0	01 1.6 0.4	910 6.0 2	17	00 8.42 5 4.91 5 6.76	58.3 24.8 34.1			\{\bar{\chi}{\chi}\}	BBB	AREA G 5.02 AC	AAAAA O SOO SOO SEE						2/29/24
5	E 04	EXISTING DRAIN P2	P2	1.57 0.91 38	100 0.03 1	2 225 U 0.0	01 1.6 2.3	60 6.0 0).2 14 2 14 14 14	00 8.42 5 5.42 5 7.53 00 9.39	7.7 10.8			DRAIN "F" SEE SHEET C1.01	A A S A A	BEBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBB		AREA P3 4.66 AC	"P3" HEET C1.04—C1.05	MASTER	R DRAINAG	E LEGEND	00 00
5	5. 05	DRAIN P3	P3	4.66 0.77 32	100 0.01 1	5 10 U 0.0	01 1.6 0.1	215 6.0 0	15	5 5.24 5 7.24 00 9.03	18.8 26.0 32.4					AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA	BBB 333	CC 1 PENE	HEET C1.04-C1.05	PROJECT LIMITS EXISTING CONTOL	JR –		10 .375.900
6	5.00	DRAIN F	F	4.30 0.77 77	75 100 0.02 1	3 120 U 0.0	01 1.6 1.2	555 6.0 1	15 5 1.5 15 2 15 10	5 5.24 5 7.24 00 9.03	17.3 24.0 29.9		(SEE STO 3A CO	EXISTING DRAIN "D" NE GARDEN — UNIT NSTRUCTION PLANS)		AREA F 4.30 AC	A A A A A A A A A A A A A A A A A A A	CC		100 YR UD FLOC 100 YR FEMA FL RUNOFF FLOW PA	OODPLAIN -		FS
7	7.00	DRAIN G	G	5.02 0.77 26	100 0.03 1	2 30 U 0.0	01 1.6 0.3	130 6.0 0		5 5.81 5 8.12 00 10.14	22.5 31.4 39.2		EXISTIN (SEE STONE GAF	G DRAIN "C"	4.00 AREA D 2.90 AC	AAAAABBBB	A A A	AA CC		DRAINAGE AREA FHA LOT GRADIN	BOUNDARY -	——————————————————————————————————————	DAN VEER,
8		DRAIN H	Н	3.97 0.77 50	100 0.04 1	1 90 U 0.0	01 1.6 0.9	310 6.0 0	12 12 10 15 15 15 15 15 15 15 15 15 15 15 15 15	5 5.81 5 8.12 00 10.14 5 5.24	17.8 24.8 31.0		3A CONSTRUC	TION PLANS)	B T S T S T S T S T S T S T S T S T S T	ATITE TRAIL	B B B B A MU	EMERCOCC	6.05	PROPOSED DIRECT			DE G SAN ANTO
1	5.0	EXISTING DRAIN M	М	8.43 0.77 85	100 0.02 1	3 65 U 0.0	01 1.6 0.7	685 6.0 1	1.9 15 2 15 10 14	5 7.24 00 9.03 5 5.42	47.0 58.6 30.0	(SEE S	EXISTING DRAIN "B" STONE GARDEN - UNIT CONSTRUCTION PLANS)		OO AREAC)		A A CELLO		AREA P2 1.57 AC	DRAINAGE CALCU	LATION POINT	(0.00)	P 410 S
1	6.0	EXISTING DRAIN N	N	7.18 0.77 77	70 100 0.02 1	3 20 U 0.0	02 2.3 0.1	650 6.0 1	1.8	5.5 7.53 00 9.39 5 5.06	41.6 51.9 21.4	EXIS (SEE STONE	STING DRAIN "A"		3.76 AC 3.76 AC MARBIE RIDGE	A A A A A A A A A A A A A A A A A A A	A (SEE STONE	KISTING DRAIN "P2" GARDEN - UNIT 2 ISTRUCTION PLANS)	(5.03) (5.03)	DRAINAGE AREA		O.01 AC	NW LOO
	30.0	EXISTING DRAIN S EXISTING	S1+S2		100 0.01 1			285 6.0 0	16 2 16 10 16 10	5 6.99 00 8.71 5 5.06	29.6 36.9 18.6	3A CONSTI	RUCTION PLANS)	200	A A A A A A A A A A A A A A A A A A A		A A A A	AREA P1 7.32 AC	EXISTING DRAIN "E	rank			2000 TEXA
	0.1	DRAIN S ALCULATION	S1		00 100 0.01 1	5 115 U 0.0	02 2.3 0.8		0.8 16 2 16 10 5 5	6.99 00 8.71 5 7.85	25.7 32.0 4.6					GRANITE GANDI EX (SEE STONE	STING DRAIN "E"	545	(SEE STONE GARD CONSTRUCTION PL	EN - UNIT 2 ANS)			
	1 0 E	EXISTING	\$2 	0.73 0.80 84	50 100 0.02 1	3 160 11 00	02 23 12	845 6.0 2	5 10 14 8	10.92 00 13.65 5 5.42 5 7.53	6.4 8.0 19.4 26.9	EXISTING DRAIN "T SEE STONE GARDEN — UNI" 2A CONSTRUCTION PLANS		AREA A 2.84 AC 3.		3A CONS	TONE GARDEN 54545			2 - S			
Ra	ational M	DRAIN T Wethod Time of hart or TR-55 Ed	Concentration ฤก. 3-3 เกings or TR-55 Figu		100 0.02	From TR-55 Fi	igure 3-1**		(10.1.067)	9.39 ed from Mannings)		NG DRAIN "S" RDEN - UNIT	(3 ³) B (21.0) A	OF STATE OF	A A A A A A A A A A A A A A A A A A A	A A Soll A A A A A A A A A A A A A A A A A A	A A A A A A A A A A A A A A A A A A A						
**/	As Calcul	ulated using Man	nings or TR-55 Figu	ıre 3-1 or 6 ft/s		$v = \frac{k}{n} R^{2/3} S_o$ $k = 1.486 ft^{1}$	P: For U: For D : For	Paved: n = 0.025, Unpaved: n = 0.05 Default: v = 6 fps	R = 0.2 5, R = 0.4	ed from Mannings)	ZA CONSTROC	ANON LANS	B 30 C	AREA T 4.64 AC	1.14 AC	545	AREAN A			6.00			
												BBB	(20.1) (AREA S1 4.77 AC)	AREA S2 0.73 AC	B B B		A A A A A A A A A A A A A A A A A A A	C V V			1/2		3B
												B Look /A	B A A	A A A A A A A A A A A A A A A A A A A	B sati	A A S	35.50	EXISTING D (SEE STON CONSTRUC	RAIN "N" E GARDEN — UNIT 2 FION PLANS)	AREA F1 0.86 AC AREA E 2.23 AC			
												A AREAR 5.83 AC	A B A B	A	A A A A A A A A A A A A A A A A A A A	AL AC ARE	AM)	B 930	255				EXAS PMEN
												A A A A A A A A A A A A A A A A A A A	A B B	A	A A A	8.43	AC			SOLA			
												A B	B		A C C C C C C C C C C C C C C C C C C C	A A A A	(5.0)			AREA D by		/	SOUNT DEVI
											B	C A A A	A A	AREA H2 0.95 AC	A C C	A A A A A A A A A A A A A A A A A A A		EXISTING DRAIN "N		C Z			AAF R CC
											AREA Q1	AREA Q2 2.92 AC	B A A A A A A A A A A A A A A A A A A A	A B B	AREA J1 6.34 AC	A A A	55.00	(SEE STONE GARD CONSTRUCTION PL.		REA C11 28 AC	A		AEXA BEXA OVERA
											2.46 AC	AREA 03	335 A	AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA	A A A A A A A A A A A A A A A A A A A	C A A	B		B	633 AF	EA C9 71 AC		
												0.61 AC 0.87	AC B B	AREA I 43 AC	A B A A A A A A A A A A A A A A A A A A	JUDGEMENT CA	IGHT-OF-WAY EASEMENT = SE NO. 2002ED0022 P.C.1 L. 9409, PG. 1205 O.P.R.		AREA C6 0.62 AC	AREA C8 2.46 AC	A AREA CO	10 2	ST
												BBBB	530 A AREA 7.13	530 A A	A STONE	B B	L. 9409, PG. 1205 O.P.R. L. 9428, PG. 2015 O.P.R. \		A A	C C C 540	A A A A A A A A A A A A A A A A A A A		·
ס בי											OR SELECTION OF THE SEL	AREA G1 3.01 AC	CALA	AZ				AREA C5	A CAL	CITE TRAIL	AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA		
											2 ASTIBOLD	AREA G3 2.71 AC	A	A				U.73 AC	530 A AREA C7 6.90 AC		CC	A	
												ARI O.E	AREA G5 0.68 AC 59 AC GIAL	O PLACE			Ai 1	REA C1 05 AC	TO C C C C C DORAT	O RIDGE	A A A A A A A A A A A A A A A A A A A	AREA C4 0.82 AC	DIAT NO 22 11000210
													CCCC	520				AREA C2 5.79 AC			FI BI A	A AREA F2 4.75 AC	JOB NO. 12482-10 DATE FEBRUARY 2024
																			AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA	BIOTITE RIDGE	THE MALE A	T A A	DESIGNER BK CHECKED DW DRAWN JR
· · · · · · · · · · · · · · · · · · ·													~~~~~~_	515.		1,65,		BEREE	ARE 6.37	AB AC	AAAA	N A	SHEET <u>C1.00</u>





SECTION "A-A" NOT-TO-SCALE STA. 1+19.50-2+04.70

HYDRAULIC CALCULATIONS **EARTHEN CHANNEL** STA. 1+15.00 TO 2+04.70

Q25 = 24.0 CFSBw = 8.00'n = 0.035S = 1.20%

D = 1.50dn = 0.73'

V = 3.23 FPS $\tau = 0.44 \text{ LB/FT}^2$

HYDRAULIC **CALCULATIONS ROCK RUBBLE**

STA. 2+04.70 TO 2+14.70

Bw = 8.00'n = 0.038S = 1.00%D = 1.50'dn = 0.80'

Q25 = 24.0 CFS

V = 2.88 FPS $\tau = 0.40 \text{ LB/FT}^2$

HYDRAULIC

CALCULATIONS RIP-RAP STA. 2+14.70 TO 2+24.70 Q25 = 24.0 CFSBw = 8.00'n = 0.015S = 1.00%D = 1.50'dn = 0.48'V = 5.30 FPS $\tau = 0.26 \text{ LB/FT}^2$

HYDRAULIC CALCULATIONS-DRAIN "F" SIDEWALK BOX $Q_{25} = 24.0 \text{ CFS}$

 $Q_{25} = CA\sqrt{2gh}$ (ORIFICE FLOW EQN.) A = L(0.52), h = 0.52, g = 32.2, c = 0.70

 $L = \frac{2.7.5 \cdot 5.5}{(0.70) \cdot (0.52)\sqrt{2 \cdot (32.2) \cdot (0.52)}}$

L = 11.39 FT USE 2 ~ 6 FT SIDEWALK BOX

CHECK WITH WEIR FORMULA h = $\left(\frac{Q}{(CL)}\right)^{2/3} = \left(\frac{24.0}{(3.087)(12)}\right)^{2/3} = 0.75 \text{ FT.}$

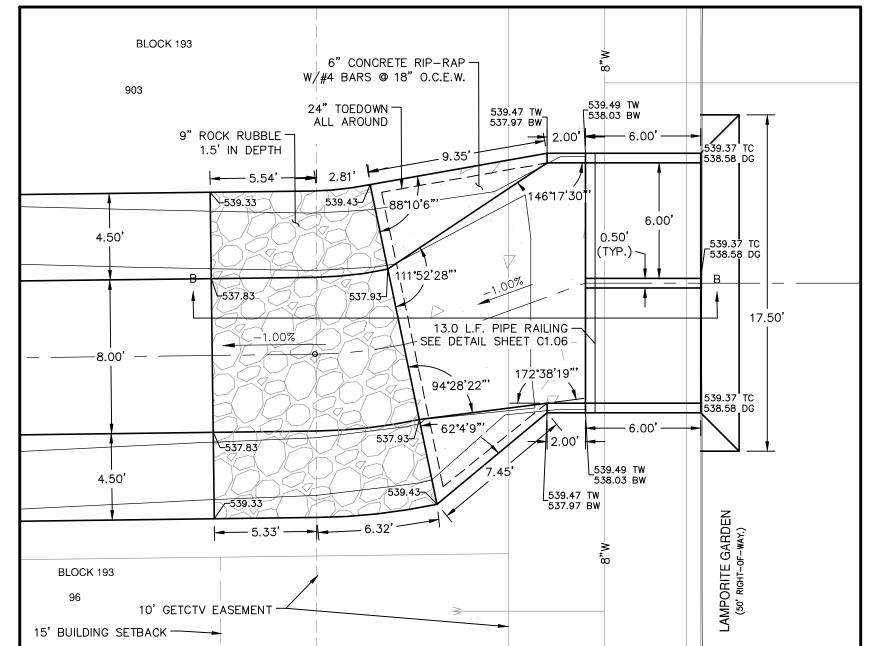
h = 0.75 < 0.79 OK **DRAINAGE & GRADING NOTES:**

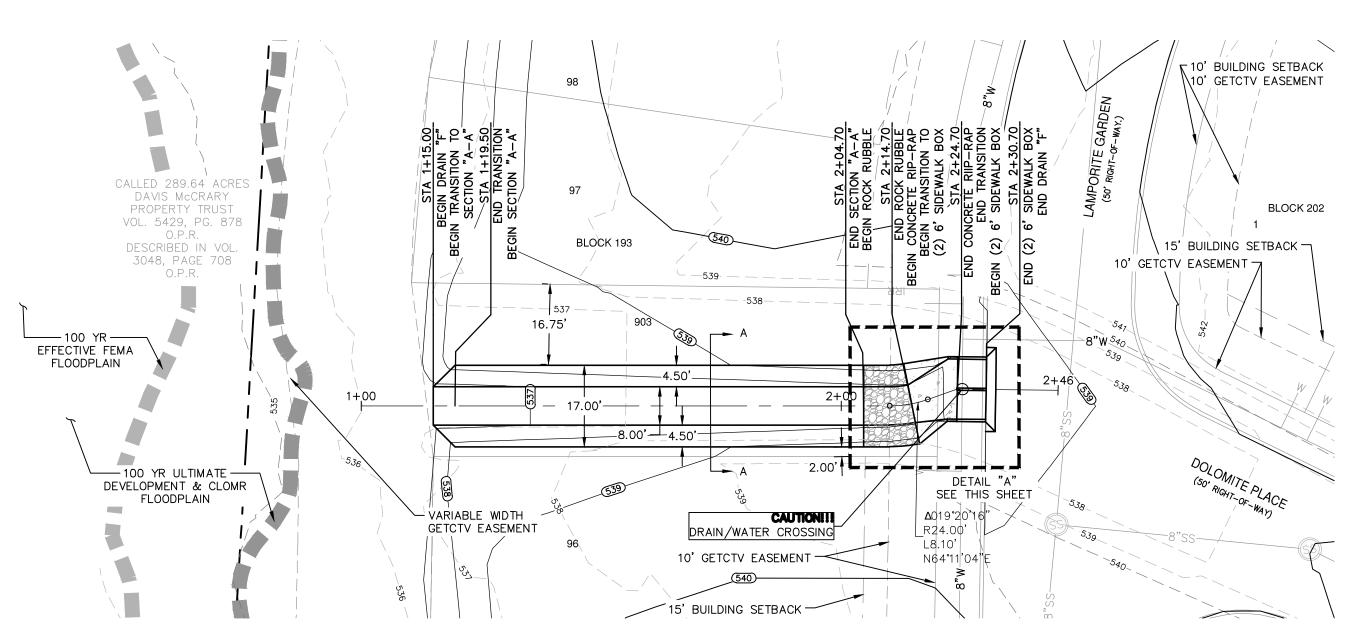
- 1. A BEXAR COUNTY ROW PERMIT MUST BE OBTAINED BEFORE WORKING IN BEXAR COUNTY ROW. CONTRACTOR SHALL COORDINATE A TRAFFIC CONTROL PLAN FOR ALL WORK WITHIN THE ROW. ADDITIONAL WARNING SIGNS MAY BE RECOMMENDED BY THE ENGINEER ONCE THE ROADWAYS ARE CONSTRUCTED.
- 2. THE CONTRACTOR WILL BE RESPONSIBLE FOR 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.
- 3. ALL CONCRETE FOR TXDOT DRAINAGE STRUCTURES SHALL MEET TXDOT SPECIFICATIONS. ALL OTHER CONCRETE SHALL BE CLASS "A" 3000 PSI CYLINDER STRENGTH IN 28 DAYS.
- 4. REFERENCE DRAINAGE DETAILS FOR PIPE TRENCH DETAILS, BOX CULVERT, HEADWALL, AND WINGWALL CONSTRUCTION DETAILS, AND BOX CULVERT BEDDING AND EXCAVATION LIMITS.
- 5. CONTRACTOR SHALL GROUT ALL CURB INLETS AND JUNCTION BOXES TO PROVIDE FOR POSITIVE DRAINAGE.
- 6. EARTHEN CHANNELS WILL BE VEGETATED BY SEEDING OR SODDING. 85% OF THE CHANNEL SURFACE MUST HAVE ESTABLISHED VEGETATION BEFORE THE CITY OF SAN ANTONIO WILL ACCEPT.
- 7. CONTRACTOR SHALL MATCH TOP OF CHANNEL TO NATURAL GROUND AND MAINTAIN A MINIMUM CHANNEL DEPTH OF "D" AS SHOWN IN THE

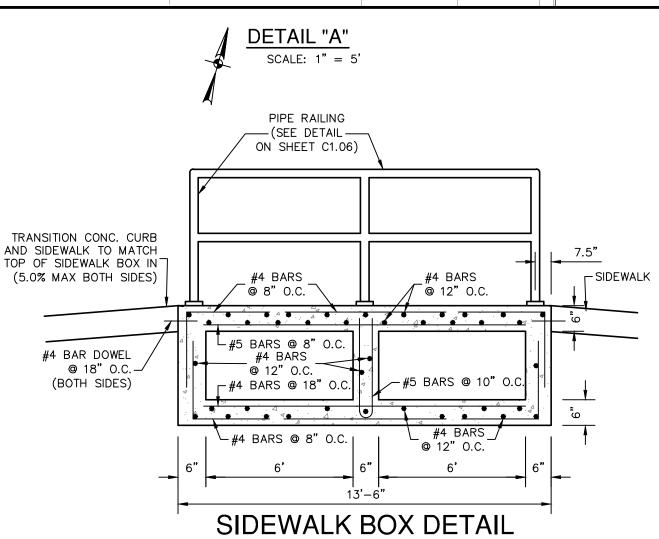
TRENCH EXCAVATION SAFETY PROTECTION

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. CAUTION!!

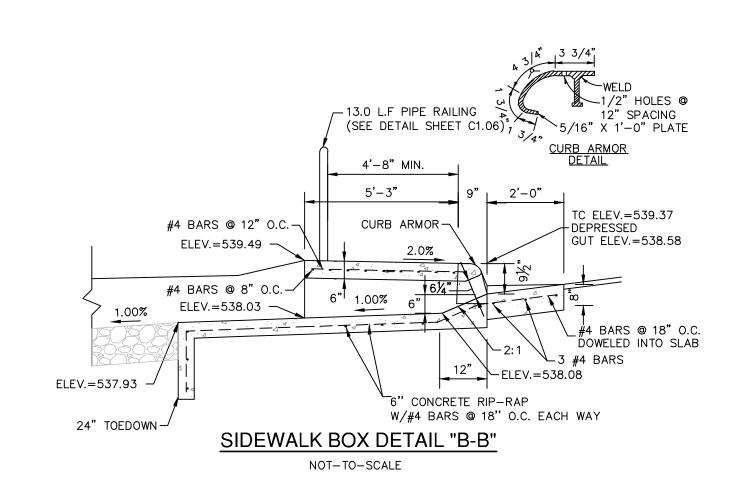
CONTRACTOR SHALL BE REQUIRED TO LOCATE ALL PUBLIC OR PRIVATE UTILITIES INCLUDING BUT NOT LIMITING TO: WATER, SEWER, TELEPHONE AND FIBER OPTIC LINES, SITE LIGHTING ELECTRIC, SECONDARY ELECTRIC. PRIMARY ELECTRICAL DUCTBANKS, LANDSCAPE IRRIGATION FACILITIES, AND GAS LINES. ANY UTILITY CONFLICTS THAT ARISE SHOULD BE COMMUNICATED TO TH 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.

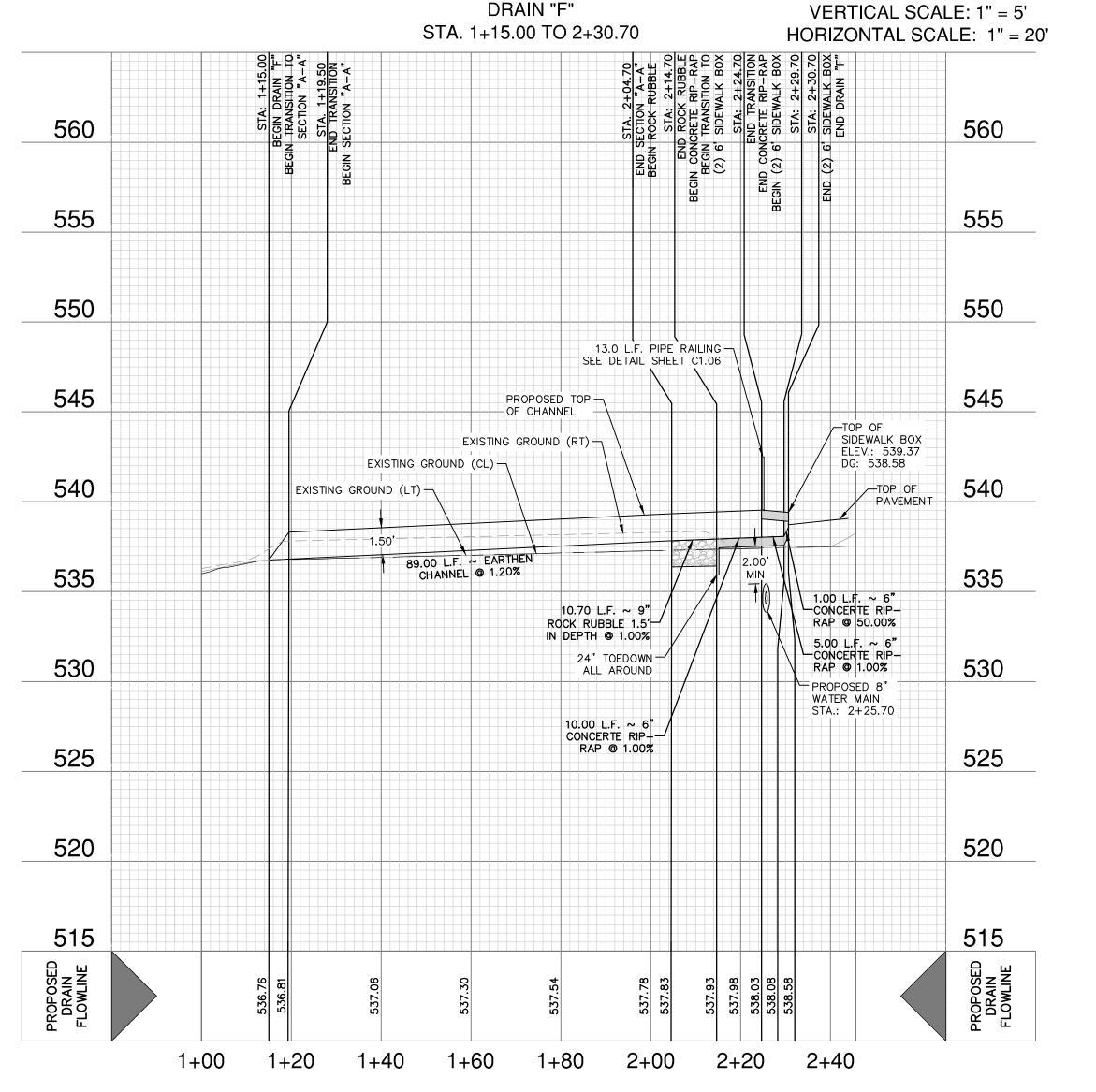






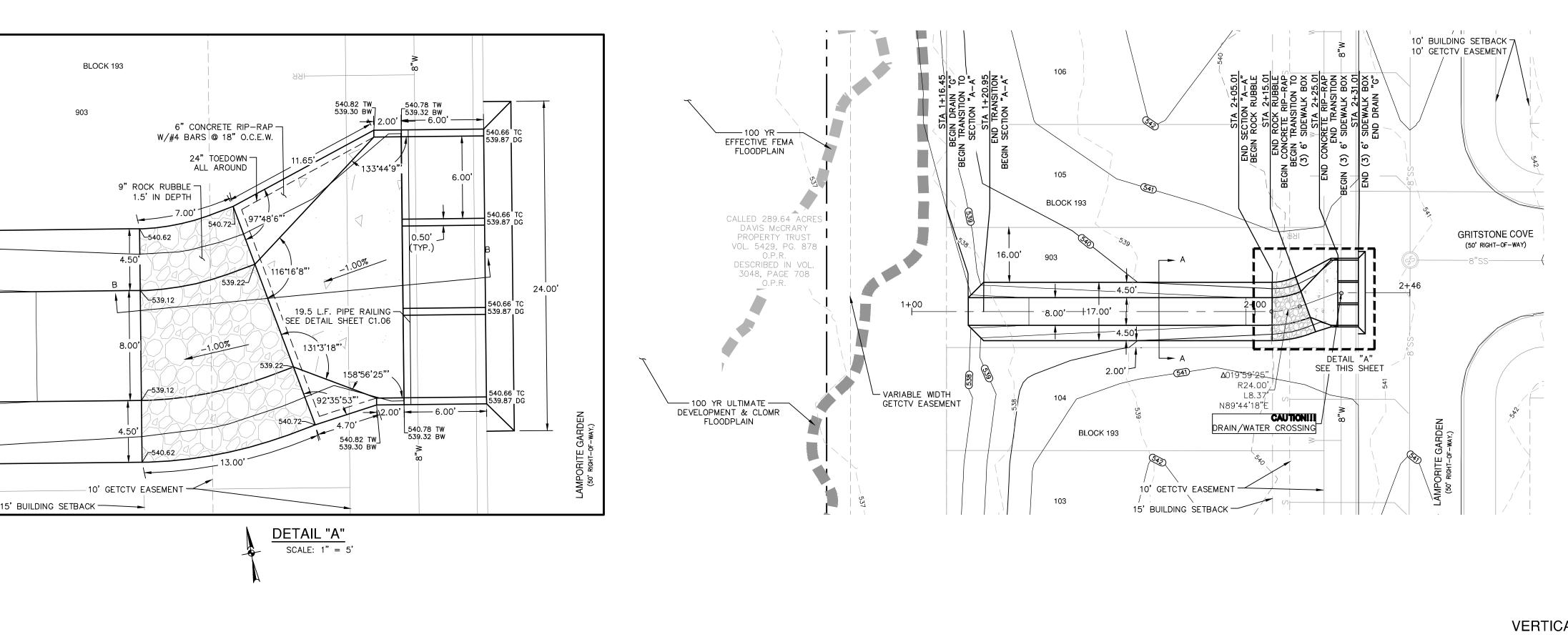
NOT-TO-SCALE



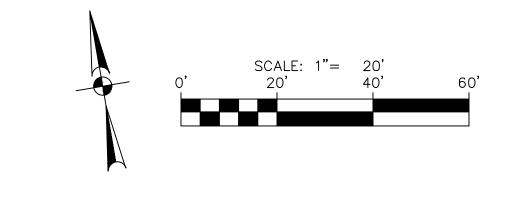


LAT NO. 23-1180021 OB NO. 12482-10 MAY 2024 DESIGNER HECKED DW DRAWN JE C1.01

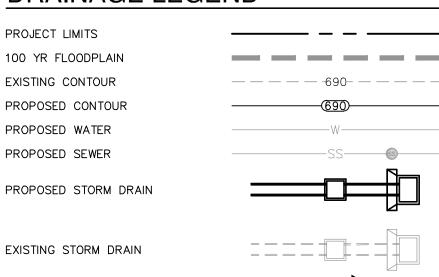
EUGENE H. DAWSON III



565

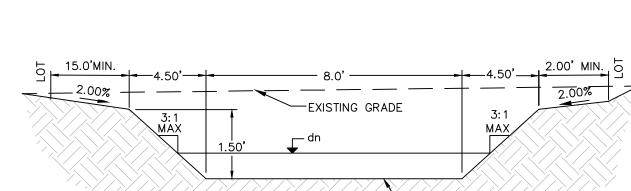


DRAINAGE LEGEND



PROPOSED EARTHEN CHANNEL

EUGENE H. DAWSON III



FLOW ARROW

SECTION "A-A" NOT-TO-SCALE STA. 1+16.45 TO 2+05.01

VERTICAL SCALE: 1" = 5' HORIZONTAL SCALE: 1" = 20'

555

545

535

530

525

520

515

TOP OF

1.00 L.F. ~ 6"

CONCRETE RIP-

RAP @ 50.00%

PROPOSED 8"

- WATER MAIN

STA.: 2+26.01

5.00 L.F. ~ 6"

CONCRETE RIP-

RAP @ 1.00%

2+00

2+20

SIDEWALK BOX

ELEV.: 540.66

TOP OF

PAVEMENT

DG: 539.87

HYDRAULIC CALCULATIONS EARTHEN CHANNEL STA. 1+16.45 TO 2+05.01									
Q25 = 31.4 CFS									
Bw = 8.00'									
n = 0.035									
S = 1.58%									
D = 1.50'									
dn = 0.78'									

CHECK WITH WEIR FORMULA V = 3.89 FPSh = 0.68 < 0.79 OK $\tau = 0.62 \text{ LB/FT}^2$

HYDRAULIC									
CALCULATIONS									
ROCK RUBBLE									
STA. 2+05.01 TO 2+15.01									
Q25 = 31.4 CFS									

Bw = 8.00'n = 0.038S = 1.00%D = 1.50'dn = 0.93'V = 3.13 FPS

 $\tau = 0.45 \text{ LB/FT}^2$

HYDRAULIC CALCULATIONS RIP-RAP STA. 2+15.01 TO 2+25.01 Q25 = 31.4 CFSBw = 8.00'

n = 0.015S = 1.00%D = 1.50'dn = 0.55'

V = 5.92 FPS $\tau = 0.29 \text{ LB/FT}^2$ HYDRAULIC CALCULATIONS-DRAIN "G" SIDEWALK BOX

 $Q_{25} = 31.4 \text{ CFS}$ $Q_{25} = CA\sqrt{2gh}$ (ORIFICE FLOW EQN.)

A = L(0.52), h = 0.52, g = 32.2, c = 0.70 $L = \frac{0.70 \times 0.52}{(0.70) \times (0.52)\sqrt{2 \times (32.2) \times (0.52)}}$

L = 14.91 FT USE 3 ~ 6 FT SIDEWALK BOX

h = $\left(\frac{Q}{(CL)}\right)^{2/3} = \left(\frac{31.4}{(3.087)(18)}\right)^{2/3} = 0.68 \text{ FT.}$

DRAINAGE & GRADING NOTES:

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3. ALL CONCRETE FOR TXDOT DRAINAGE STRUCTURES SHALL MEET TXDOT SPECIFICATIONS. ALL OTHER CONCRETE SHALL BE CLASS "A" 3000 PSI CYLINDER STRENGTH IN 28 DAYS.

4. REFERENCE DRAINAGE DETAILS FOR PIPE TRENCH DETAILS, BOX CULVERT, HEADWALL, AND WINGWALL CONSTRUCTION DETAILS, AND BOX

PROVIDE FOR POSITIVE DRAINAGE.

6. EARTHEN CHANNELS WILL BE VEGETATED BY SEEDING OR SODDING. 85% OF THE CHANNEL SURFACE MUST HAVE ESTABLISHED VEGETATION

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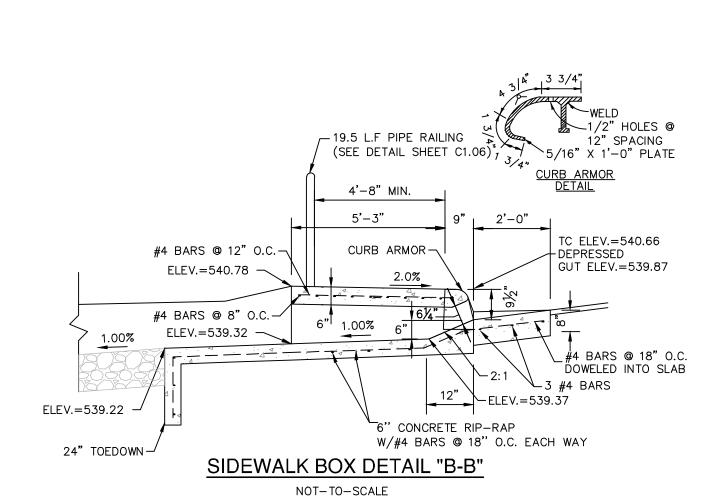
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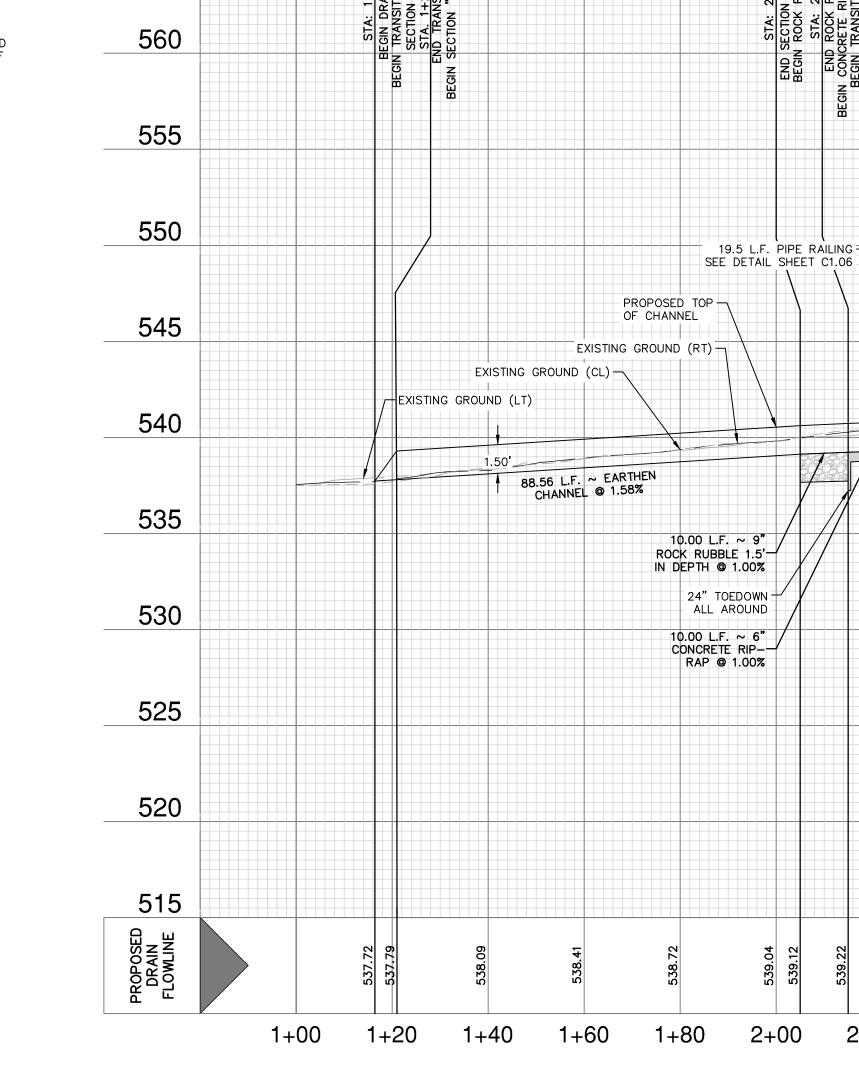
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TO REPAIR, AT HIS EXPENSE. CULVERT BEDDING AND EXCAVATION LIMITS. 5. CONTRACTOR SHALL GROUT ALL CURB INLETS AND JUNCTION BOXES TO BEFORE THE CITY OF SAN ANTONIO WILL ACCEPT. PROFILE. TRENCH EXCAVATION SAFETY PROTECTION

- PIPE RAILING SEE DETAIL, SEE DETAIL, SEE SHEET C1.0 SEE SHEET C1.06 TRANSITION CONC. CURB AND SIDEWALK TO MATCH TOP OF SIDEWALK BOX IN 6'-0" 2'-6" (5.0% MAX BOTH SIDES) _SIDEWALK → BARS + #4 @ 8"O.C. → BARS - #4 @ 12"O BARS - #5 @ 7"O.C. ______ ←BARS - #5 @ 7"O.C. | BARS - #4 @ 12"O.C. ∠BARS − #4 @ 12"O.C. BARS - #4 @ 18"O.C. ∠BARS - #4 @ 18"O.C. BARS - #4 @ 8"O.C. BARS - #4 @ 9"O.C. BARS - #4 @ 12"0.C. 6.0'(TYP.) 6.0'(TYP.) 18.0' CURB OPENING = 19.5' TOTAL SIDEWALK BOX

NOT-TO-SCALE





DRAIN "G"

STA. 1+16.45 TO 2+31.01



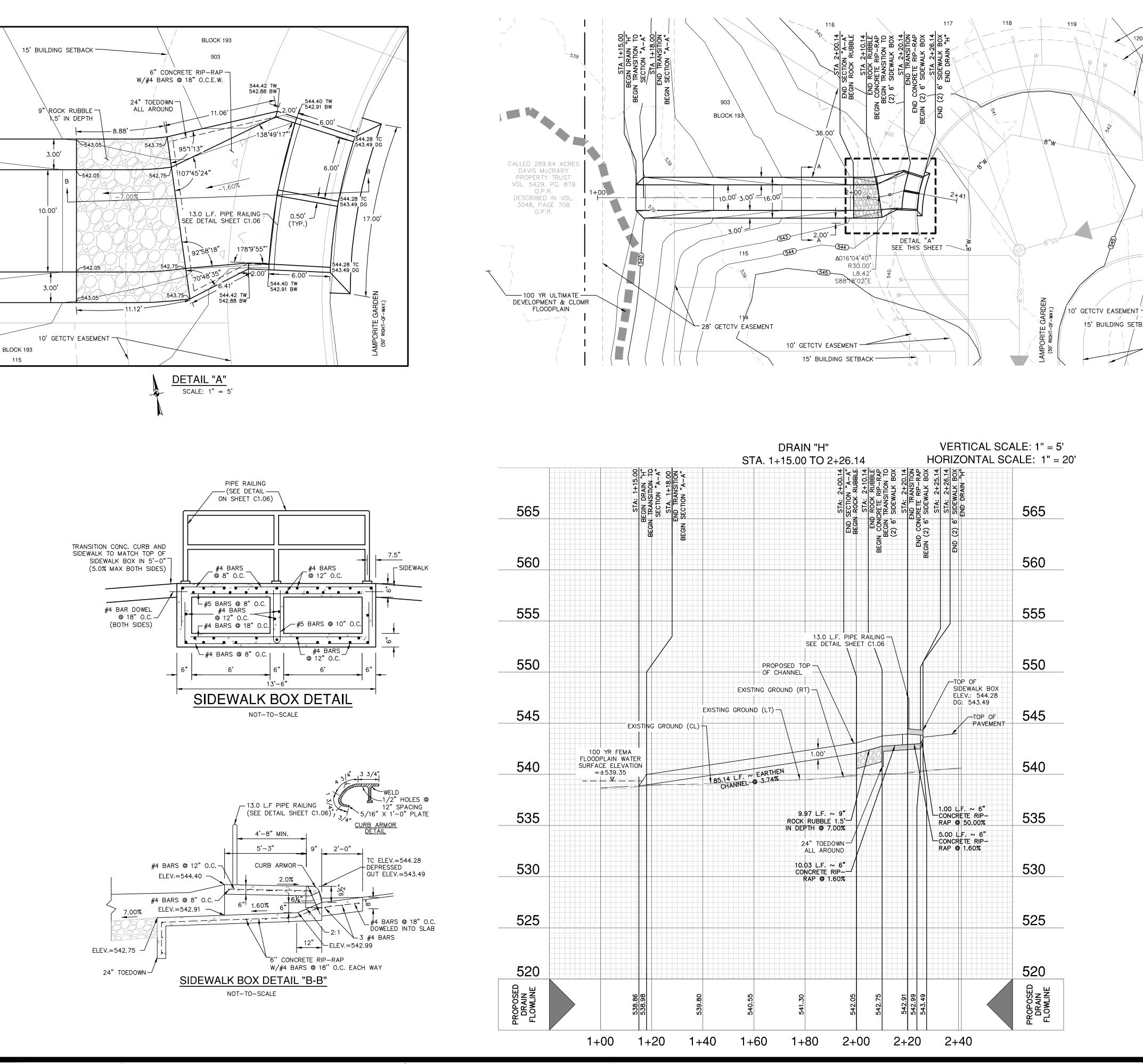
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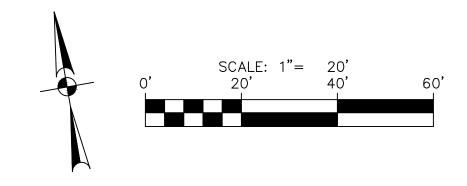
C1.02

T NO. 23-11800212

A ...

DRAIN (STA.





─ 15' BUILDING SETBACK

BLOCK 203

10' BUILDING SETBACK

HYDRAULIC

CALCULATIONS

EARTHEN CHANNE

STA. 1+15.00 TO 2+00.14

Q25 = 24.8 CFS

Bw = 10.00'n = 0.035

S = 3.74%

D = 1.00'

dn = 0.48'

V = 4.52 FPS

Q25 = 24.8 CFS

Bw = 10.00'

n = 0.038

S = 7.00%

D = 1.00'

dn = 0.42'

V = 5.24 FPS

Q25 = 24.8 CFS

Bw = 10.00'

n = 0.015

S = 1.60%

D = 1.00'

dn = 0.38'

V = 5.86 FPS

 $\tau = 0.34 \text{ LB/FT}^2$

 $\tau = 1.63 \text{ LB/FT}^2$

HYDRAULIC

CALCULATIONS

RIP-RAP

STA. 2+10.14 TO 2+20.14

 $\tau = 0.98 \text{ LB/FT}^2$

HYDRAULIC

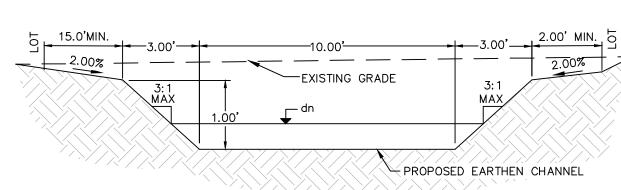
CALCULATIONS

ROCK RUBBLE

STA. 2+00.14 TO 2+10.14

-10' GETCTV EASEMENT

PROJECT LIMITS 100 YR FLOODPLAIN EXISTING CONTOUR PROPOSED CONTOUR PROPOSED WATER PROPOSED SEWER PROPOSED STORM DRAIN EXISTING STORM DRAIN FLOW ARROW



SECTION "A-A"

NOT-TO-SCALE
STA. 1+18.00 - 2+00.14

HYDRAULIC CALCULATIONS—DRAIN "H" SIDEWALK BOX $Q_{25} = 24.8 \text{ CFS}$

 $Q_{25} = CA\sqrt{2gh}$ (ORIFICE FLOW EQN.) A = L(0.52), h = 0.52, g = 32.2, c = 0.70

24.8 CFS $L = \frac{24.6 \text{ G/S}}{(0.70) (0.52)\sqrt{2 (32.2) (0.52)}}$

L = 11.77 FT USE 2 ~ 6 FT SIDEWALK BOX

CHECK WITH WEIR FORMULA

h = $\left(\frac{Q}{(CL)}\right)^{2/3} = \left(\frac{24.8}{(3.087)(12)}\right)^{2/3} = 0.76$ FT.

h = 0.76 < 0.79 OK

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CAUTION!!

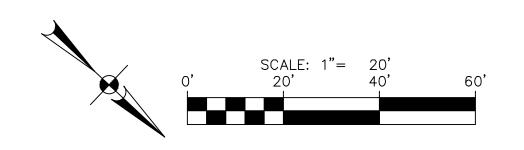
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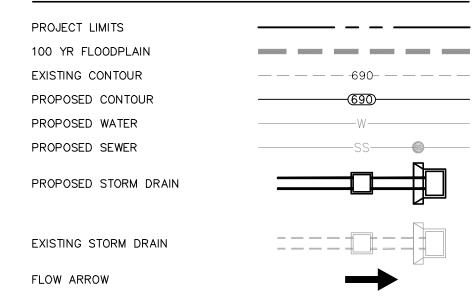
ACTIVITIES OF INDIVIDUALS WORKING IN AND AROUND TRENCH EXCAVATION.

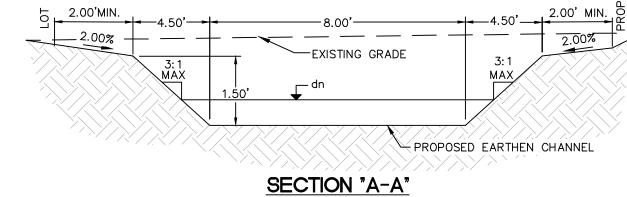
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C1.03

EUGENE H. DAWSON III







NOT-TO-SCALE STA. 1+28.25 - 7+84.53

> HYDRAULIC CALCULATIONS EARTHEN CHANNEL

EARTHEN CHANNEL

STA. 1+15.00 TO 5+80.00

Q25 = 26.0 CFS

Bw = 8.00'

n = 0.035

S = 0.50%

D = 1.50'

dn = 0.97'

V = 2.46 FPS

τ = 0.23 LB/FT²

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EUGENE H. DAWSON III

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NE GARDEN - UNIT 3B BEXAR COUNTY, TEXAS

PLAT NO. 23-11800212

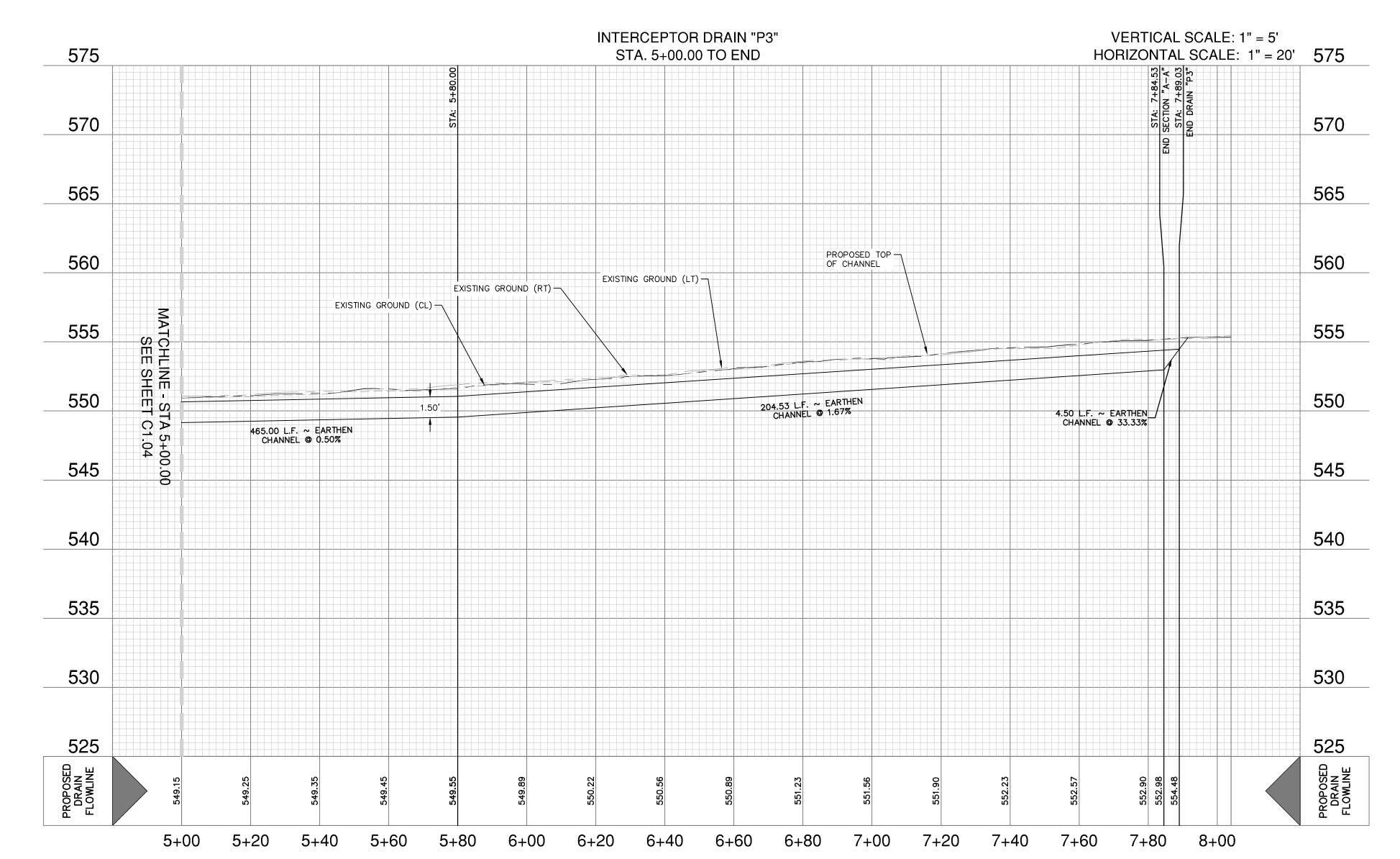
JOB NO. 12482-10

DATE MAY 2024

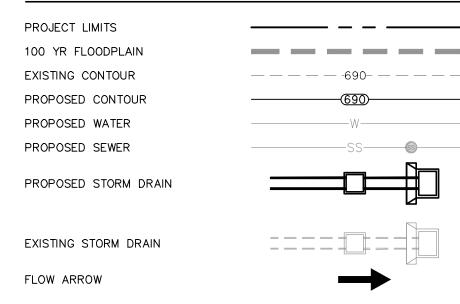
DESIGNER BK
CHECKED DW DRAWN JR

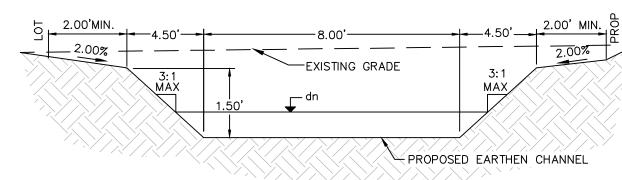
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SECTION "A-A"

NOT-TO-SCALE
STA. 1+28.25 - 7+84.53

HYDRAULIC CALCULATIONS EARTHEN CHANNEL STA. 1+15.00 TO 5+80.00	HYDRAULIC CALCULATIONS EARTHEN CHANNEL STA. 5+80.00 TO 7+84.53				
Q25 = 26.0 CFS	Q25 = 26.0 CFS				
Bw = 8.00'	Bw = 8.00'				
n = 0.035	n = 0.035				
S = 0.50%	S = 1.67%				
D = 1.50'	D = 1.50'				
dn = 0.97'	dn = 0.70'				
V = 2.46 FPS	V = 3.68 FPS				
$\tau = 0.23 \text{ LB/FT}^2$	τ = 0.59 LB/FT ²				

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EUGENE H. DAWSON III

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SAN ANTONIO, TX 78213 I 210.375.9000

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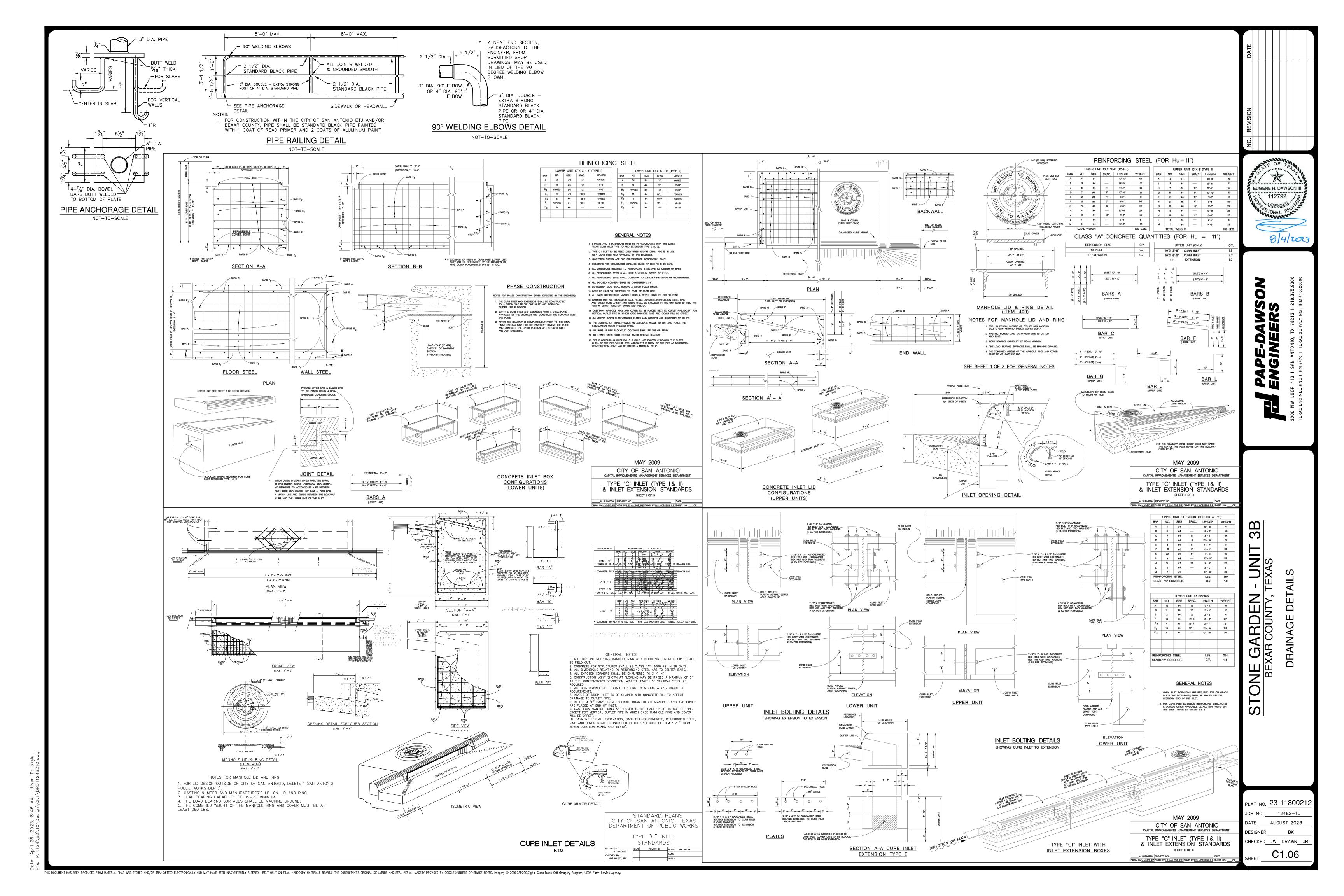
BEXAR COUNTY, TEXAS

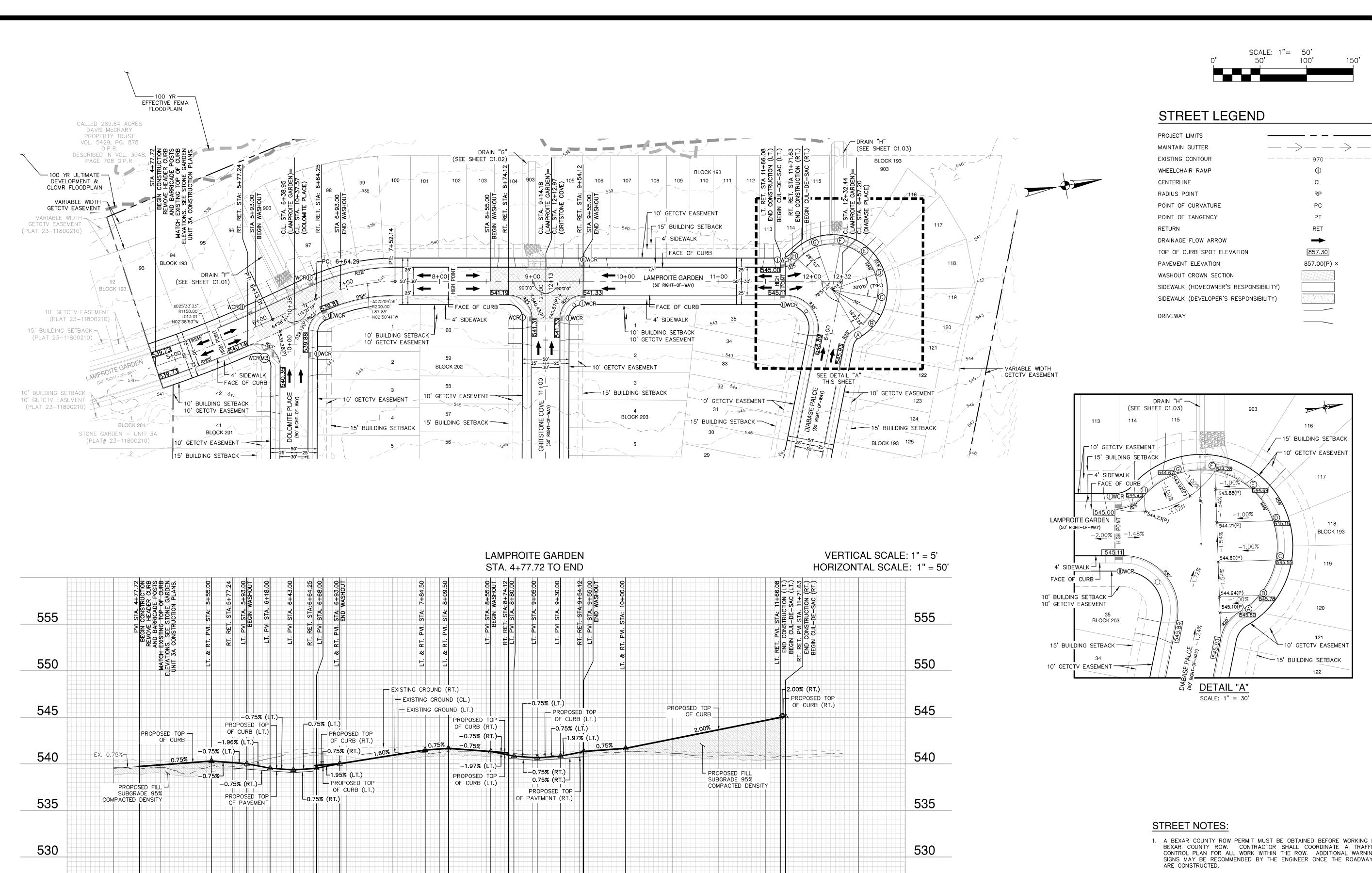
ERCEPTOR DRAIN P3 PLAN & PRO

(STA. 5+00.00 TO END)

PLAT NO. 23-11800212 OB NO. 12482-10 ATE MAY 2024

DESIGNER BK
CHECKED DW DRAWN JR





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- 2. CONTRACTOR SHALL MATCH EXISTING PAVEMENT AT TIE-IN. IF EXISTING PAVEMENT ELEVATION DIFFERS SIGNIFICANTLY, CONTRACTOR SHALL NOTIFY THE ENGINEER PRIOR TO CONTINUING WORK.
- 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 THE CLEAR VISION EASEMENT. CONTRACTOR SHALL GRADE AREAS WITHIN CLEAR VISION EASEMENTS SUCH THAT THE ELEVATION WITHIN TH CLEAR VISION EASEMENT IS NOT HIGHER THAN 3 FEET ABOVE TH 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.

E GARDEN EXAR COUNTY, 1 NE BE

3

PLAN & PF TO END)

AMPROITE GARDEN (STA, 4+77.72

EUGENE H. DAWSON III

PLAT NO. 23-11800212 JOB NO. 12482-10 MAY 2024

DESIGNER HECKED DW DRAWN JR C2.00

6+50 7+00 5+50 6+00 7+50 8+00 9+50 10+00 10+50 11+00 11+50 12+00 12+50 5+00 8+50 9+00 HIS DOCUMENT HAS BEEN PRODUCED FROM MATERIAL THAT WAS STORED AND/OR TRANSMITTED ELECTRONICALLY AND MAY HAVE BEEN INADVERTENTLY ALTERED. RELY ONLY ON FINAL HARDCOPY MATERIALS BEARING THE CONSULTANT'S ORIGINAL SIGNATURE AND SEAL. AERIAL IMAGERY PROVIDED BY GOOGLE® UNLESS OTHERWISE NOTED. Imagery © 2016,CAPCOG,Digital Globe,Texas Orthoimagery Program, USDA Farm Service Agency.

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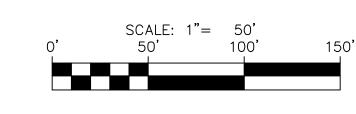
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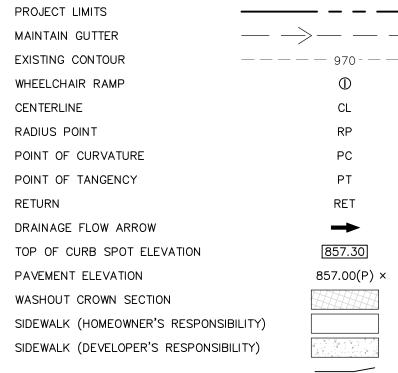
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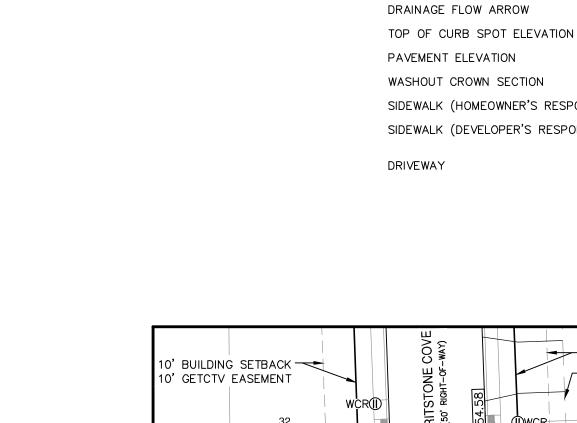
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540.69 540.66



STREET LEGEND





-10' GETCTV EASEMENT

— VARIABLE WIDTH
DRAINAGE EASEMENT

VARIABLE WDITH

GETCTV EASEMENT

- INTERCEPTOR DRAIN "P3"

(SEE SHEETS C1.04-C1.05)

10' BUILDING SETBACK -

VERTICAL SCALE: 1" = 5'

HORIZONTAL SCALE: 1" = 50'

565

560

555

550

545

540

535

530

6+50

10' GETCTV EASEMENT

-10' GETCTV EASEMENT

- 10' BUILDING SETBACK

10' GETCTV EASEMENT

4' SIDEWALK

ICELANDITE WAY

STA. 3+53.11 TO END

FACE OF CURB

¹15' BUILDING SETBACK

10' GETCTV EASEMENT

10' BUILDING SETBACK T

10' GETCTV EASEMENT

BLOCK 201

4' SIDEWALK -

10' GETCTV EASEMENT - (PLAT 23-11800210)

15' BUILDING SETBACK -

(PLAT 23-11800210)

15' BUILDING SETBACK —

10' GETCTV EASEMENT 厌

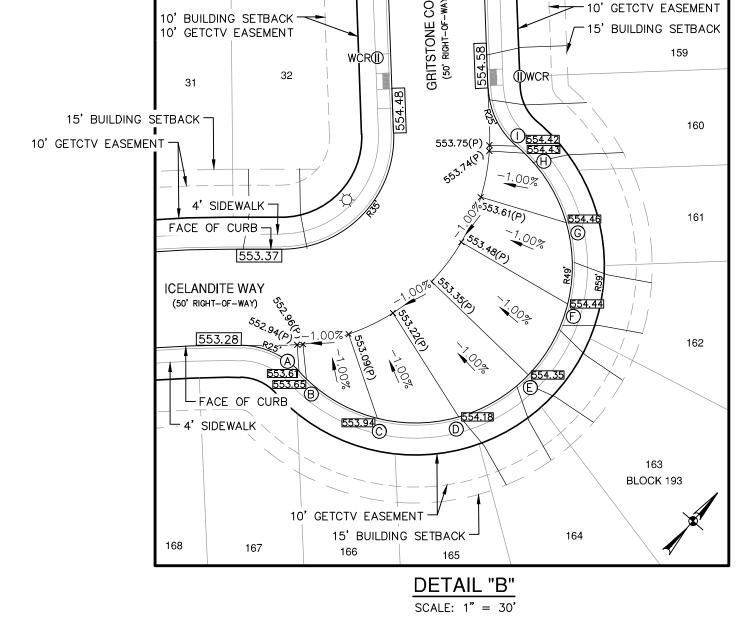
15' BUILDING SETBACK -

(PLAT 23-11800210)

10' GETCTV EASEMENT

565

560



STREET NOTES:

- 1. A BEXAR COUNTY ROW PERMIT MUST BE OBTAINED BEFORE WORKING IN 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 8 FEET ABOVE THE PAVEMENT, INCLUDING STRUCTURES, WALLS, FENCES, AND VEGETATION, SHALL BE CONSTRUCTED OR ALLOWED WITHIN THE 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.

S:

STONE GARI

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I & PROF END)

EUGENE H. DAWSON III

ΓNO.	23-11800212
NO	12482-10
Ξ	MAY 2024

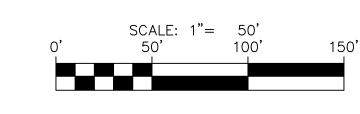
DESIGNER BK

CHECKED DW DRAWN JR

SHEET C2.01

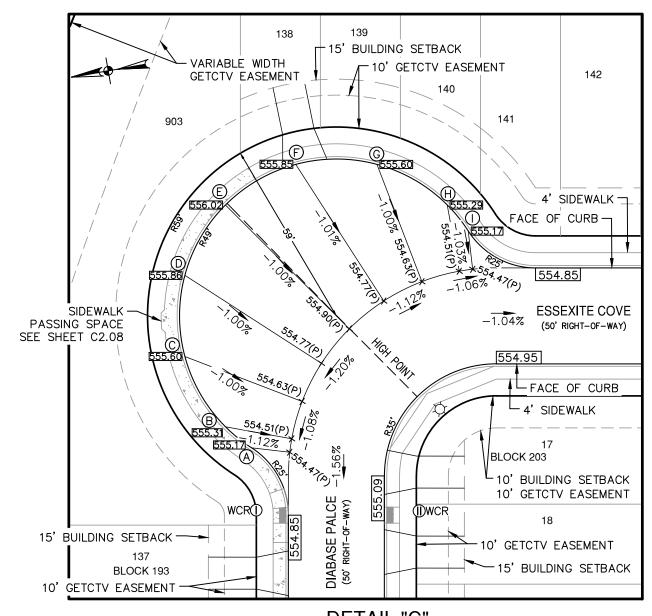
3+50 4+00 4+50 5+00 5+50 6+00 his document has been produced from material that was stored and/or transmitted electronically and may have been inadvertently altered. Rely only on final hardcopy materials bearing the consultant's original signature and seal aerial imagery provided by Google® unless otherwise noted. Imagery © 2016, CAPCOG, Digital Clobe, Texas Orthoimagery Program, USDA Farm Service Agency.

PROPOSED 555 GROUND (LT.) PROPOSED GROUND _0.75% (LT.) PROPOSED GROUND LEXISTING GROUND (LT.) 550 EXISTING GROUND (RT.) PROPOSED TOP EXISTING GROUND (CL.) GOF PAVEMENT 0.75% PROPOSED FILL SUBGRADE 95% PROPOSED FILL COMPACTED DENSITY SUBGRADE 95% 545 COMPACTED DENSITY 540 535 530 TOP OF CURB LEFT



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 RESPONSIE	BILITY)
SIDEWALK (DEVELOPER'S RESPONSIBI	LITY)

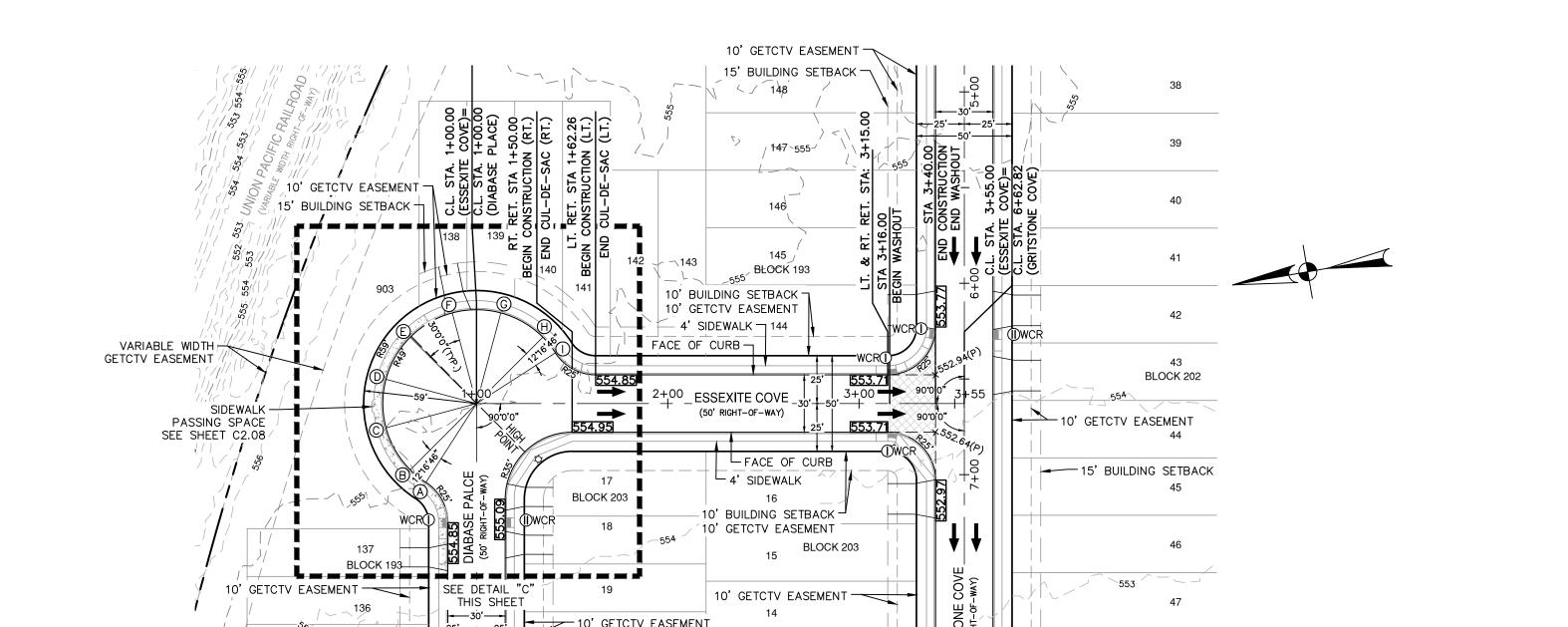


DRIVEWAY

SCALE: 1" = 30'

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- 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.



15' BUILDING SETBACK

15' BUILDING SETBACK

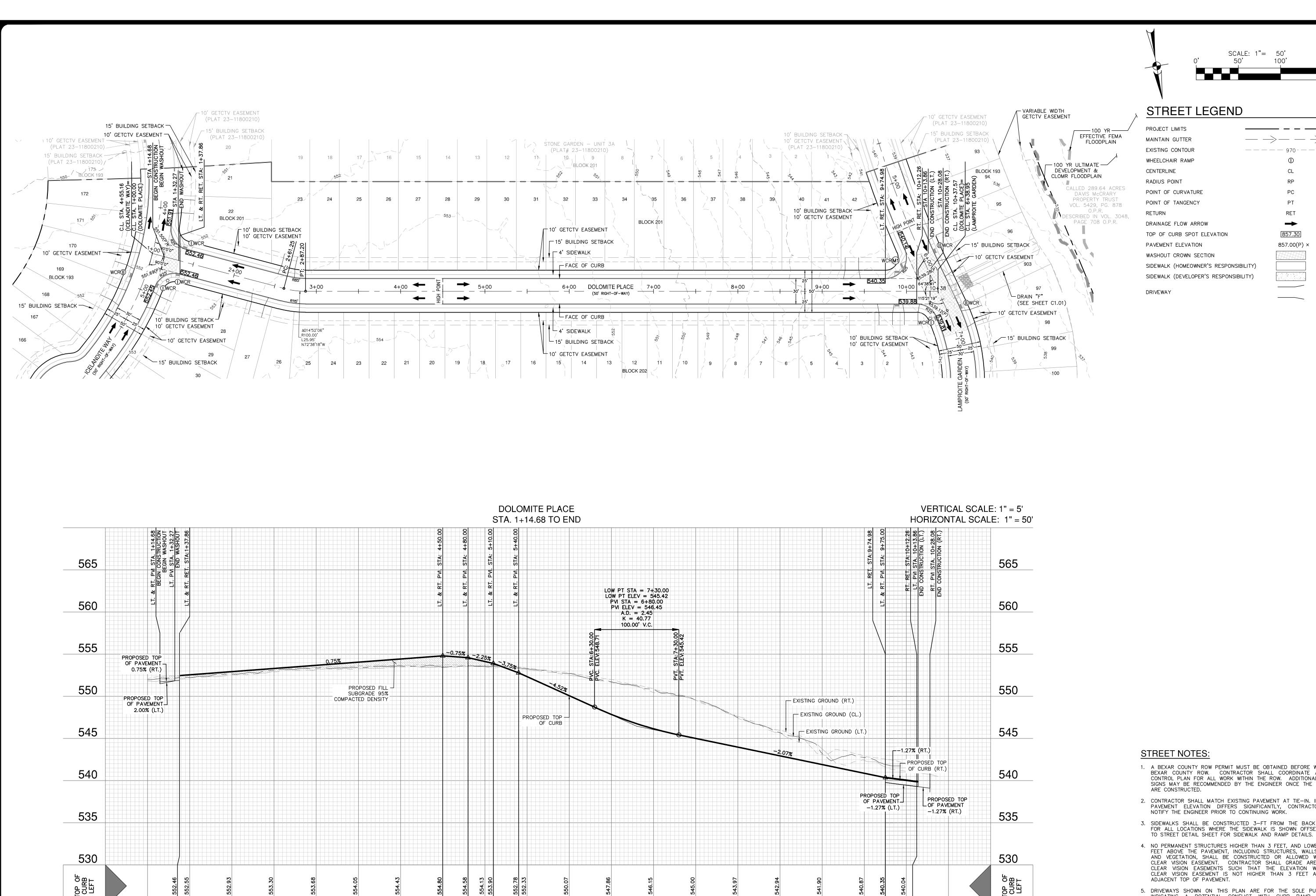
		ESSEXITE COVE A. 1+50.00 TO END		L SCALE: 1" = 5' AL SCALE: 1" = 50
570	RT. RET. PVI STA. 1+50.00 BEGIN CONSTRUCTION (RT.) END CUL-DE-SAC (RT.) LT. RET. PVI, STA: 1+62.26 BEGIN CONSTRUCTION (LT.) END CUL-DE-SAC (LT.)	RT. RET. STA: 3+15.00 RT. PVI. STA: 3+16.00 BEGIN WASHOUT	PVI. STA: 3+40.00 END CONSTRUCTION END WASHOUT	570
565	RT. RET. PVI STA BEGIN CONSTRUC END CUL-DE- LT. RET. PVI. STA BEGIN CONSTRUC END CUL-DE-	LT. & RT. F	8 8 17 18 18 18 18 18 18 18 18 18 18 18 18 18	565
560		EXISTING ODDING (DT.)		560
555		EXISTING GROUND (RT.) EXISTING GROUND (CL.) EXISTING GROUND (LT.)	PROPOSED TOP OF PAVEMENT	555
550	PROPOSED TOP OF CURB (RT.)	PROPOSED TOP OF PAVEMENT—0.75%	PROPOSED TOP OF PAVEMENT -2.00% (RT.)	550
545				545
540				540
535				535
TOP OF CURB	554.85	554.20		TOP OF CURB
TOP OF CURB RIGHT	554.95	554.20 553.82 553.71 553.70		TOP OF CURB
	1+00 1+50 2+00	2+50 3+00	3+50 4+00	

PLAT NO. 23-11800212 JOB NO. 12482-10

& PROFIL END)

EUGENE H. DAWSON III

CHECKED DW DRAWN JR



6+50 7+00 7+50 8+00 8+50

9+00

9+50 10+00 10+50

857.30 857.00(P) ×

EUGENE H. DAWSON III

150'

3 UNIT E GARDEN XAR COUNTY, 1

J & PR(END)

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TOP OF CURB RIGHT

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PLAT NO. 23-11800212 JOB NO. 12482-10 MAY 2024

DESIGNER HECKED DW DRAWN JR C2.03

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3+00

3+50

4+00

4+50

5+00

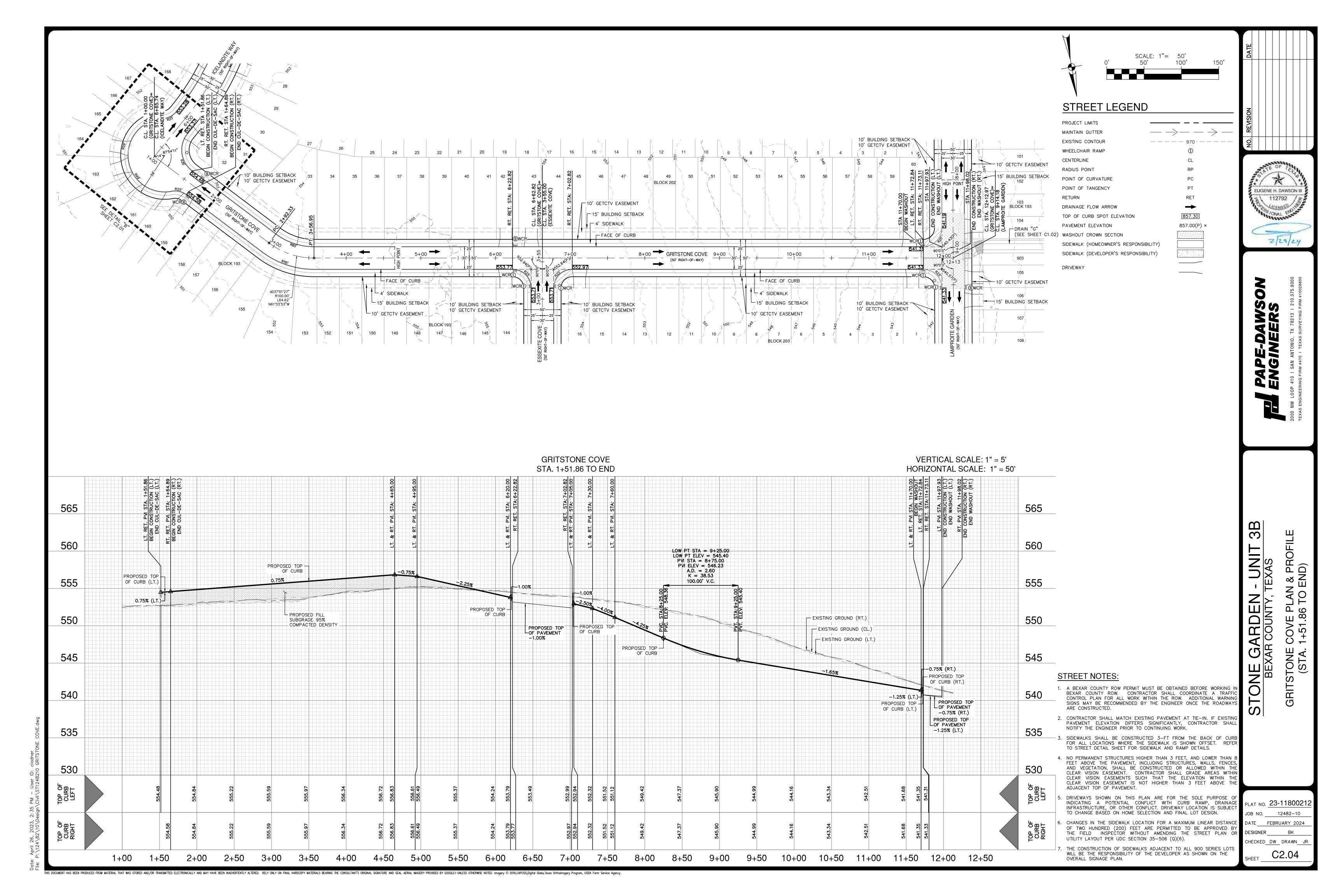
5+50

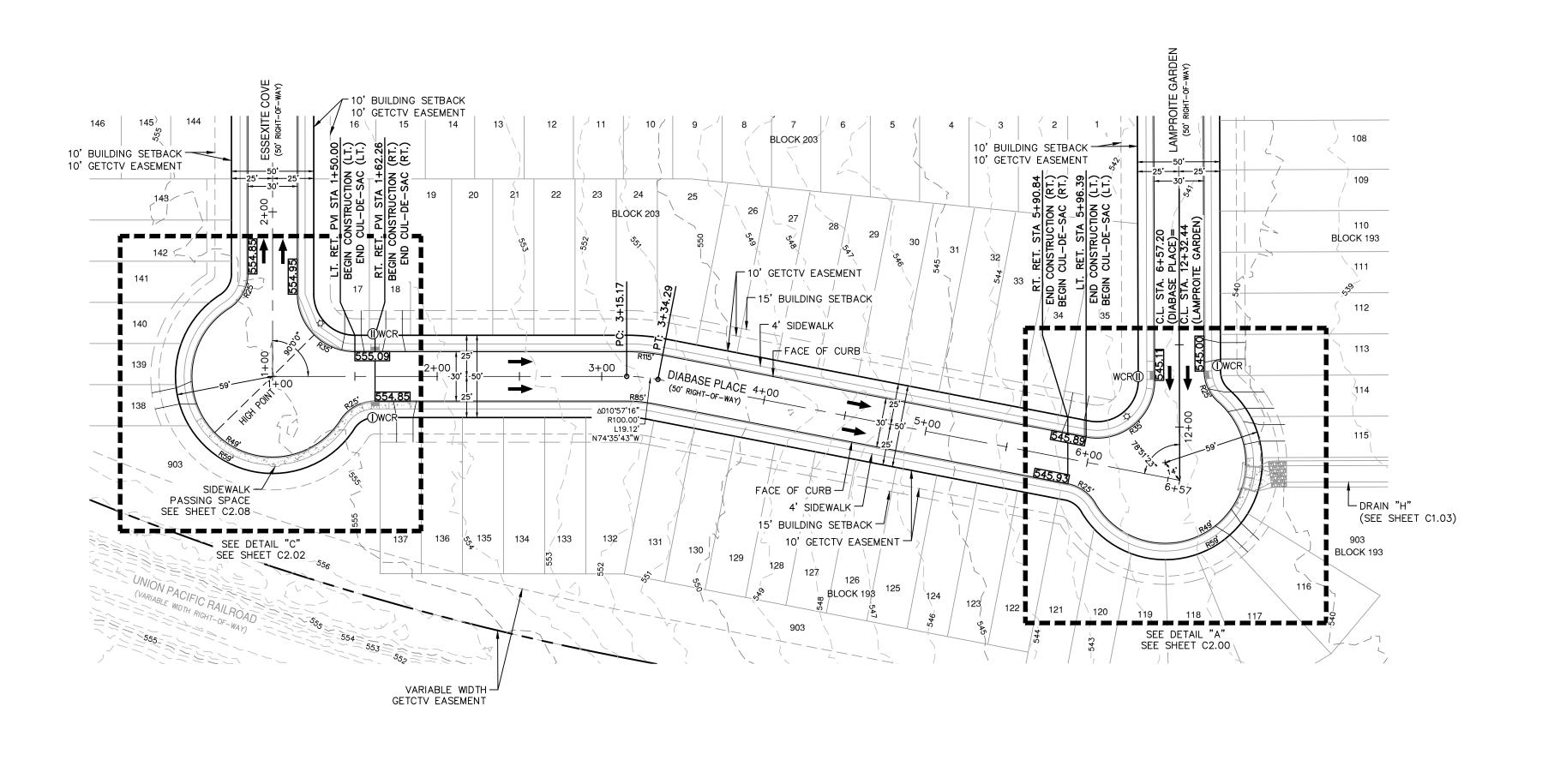
6+00

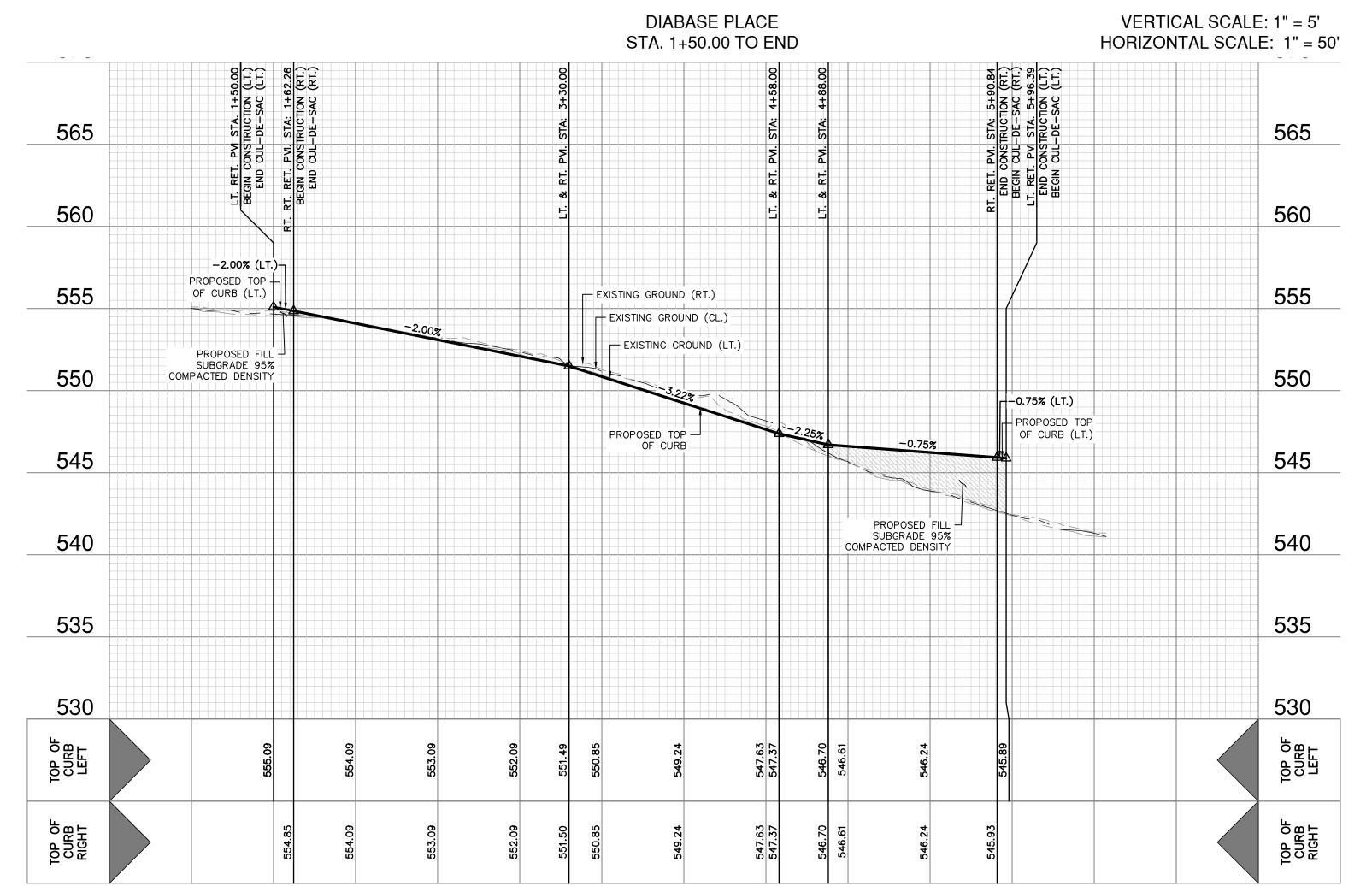
2+50

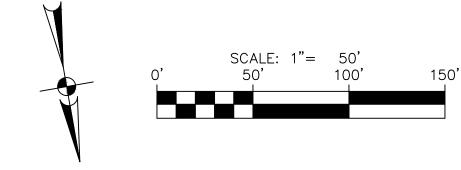
2+00

1+50



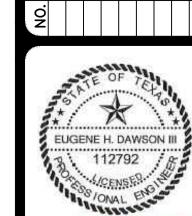






STREET LEGEND

PROJECT LIMITS -	
MAINTAIN GUTTER	\longrightarrow \longrightarrow \longrightarrow
EXISTING CONTOUR ——	970
WHEELCHAIR RAMP	①
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	



2/29/24

3B

& PROF

DIABASE PLACE PLAN (STA. 1+50.00 TO

STREET NOTES:

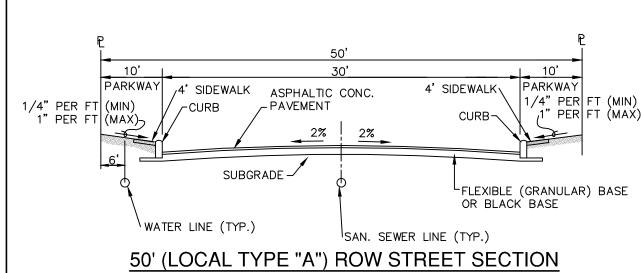
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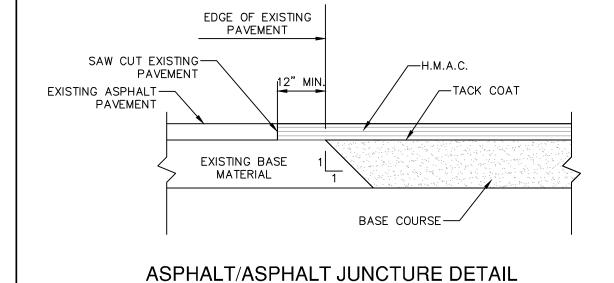
PLAT NO. 23-11800212 JOB NO. 12482-10

CHECKED<u>DW</u> DRAWN_ JR

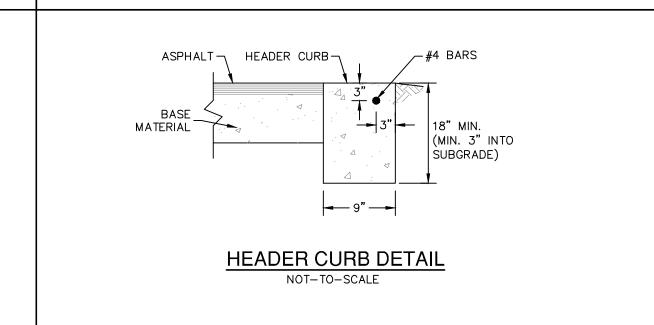
1+50 2+50 3+00 3+50 4+00 4+50 5+00 5+50 6+00 6+50 7+00 2+00

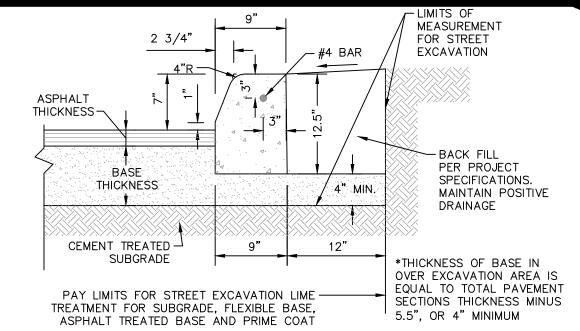
PAVEMENT SECTION DETAIL									
STREET NAME	STATION	TYPE "D" HMAC	TYPE "C" HMAC	GANULAR BASE COURSE	CEMENT TREATED SUBGRADE	GEOGRID (TENSAR TRIAX TX5)	CBR	STRUCTURAL I	NUMBER
LAMPROITE GARDEN	4+77.72 TO END (LOCAL A)	2.0"	_	10"	6"	NO	4.0	2.0(.44) = 0.88 10(.14) = 1.40	2.28
ICELANDITE WAY	3+53.11 TO END (LOCAL A)	2.0"	_	10"	6"	NO	4.0	2.0(.44) = 0.88 10(.14) = 1.40	2.28
ESSEXITE COVE	1+50.00 TO END (LOCAL A)	2.0"	_	10"	6"	NO	4.0	2.0(.44) = 0.88 10(.14) = 1.40	2.28
DOLOMITE PLACE	1+14.68 TO END (LOCAL A)	2.0"	_	10"	6"	NO	4.0	2.0(.44) = 0.88 10(.14) = 1.40	2.28
GRITSTONE COVE	1+51.86 TO END (LOCAL A)	2.0"	_	10"	6"	NO	4.0	2.0(.44) = 0.88 10(.14) = 1.40	2.28
DIABASE PLACE	1+50.00 TO END (LOCAL A)	2.0"	-	10"	6"	NO	4.0	2.0(.44) = 0.88 10(.14) = 1.40	2.28



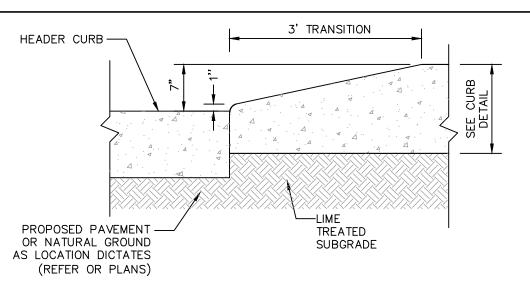


NOT-TO-SCALE

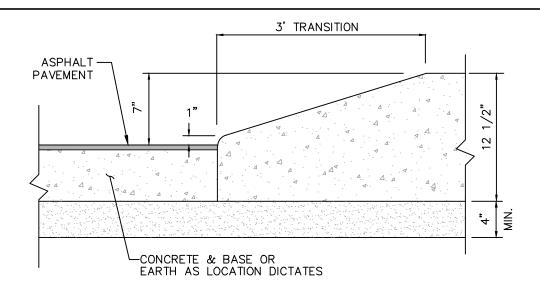




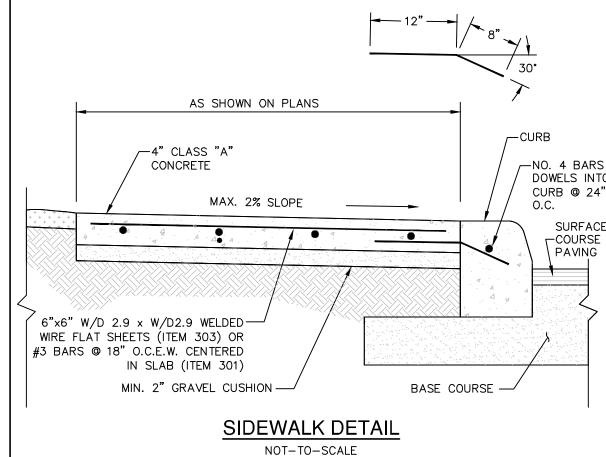
CONCRETE CURB DETAIL NOT-TO-SCALE

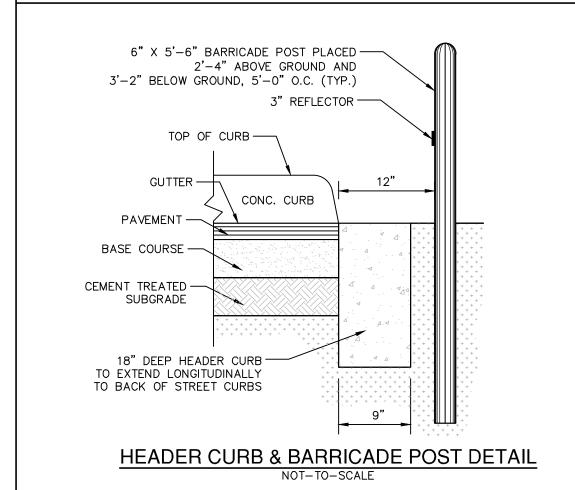


CURB TRANSITION DETAIL (FROM HEADER CURB TO STANDARD CURB NOT-TO-SCALE



CURB TRANSITION DETAIL (FROM PAVEMENT TO STANDARD CURB)





EUGENE H. DAWSON III

7 112792

7 1/CENSED

210.375.9000 IRM #10028800

PAPE-DAWSOL ENGINEERS
2000 NW LOOP 410 I SAN ANTONIO, TX 78213 I 210.375.9

NE GARDEN - UNIT 3B BEXAR COUNTY, TEXAS

STONE GAR

PLAT NO. 23-11800212

JOB NO. 12482-10

DATE MAY 2024

DESIGNER BK

CHECKED DW DRAWN JR

SHEET C2.06

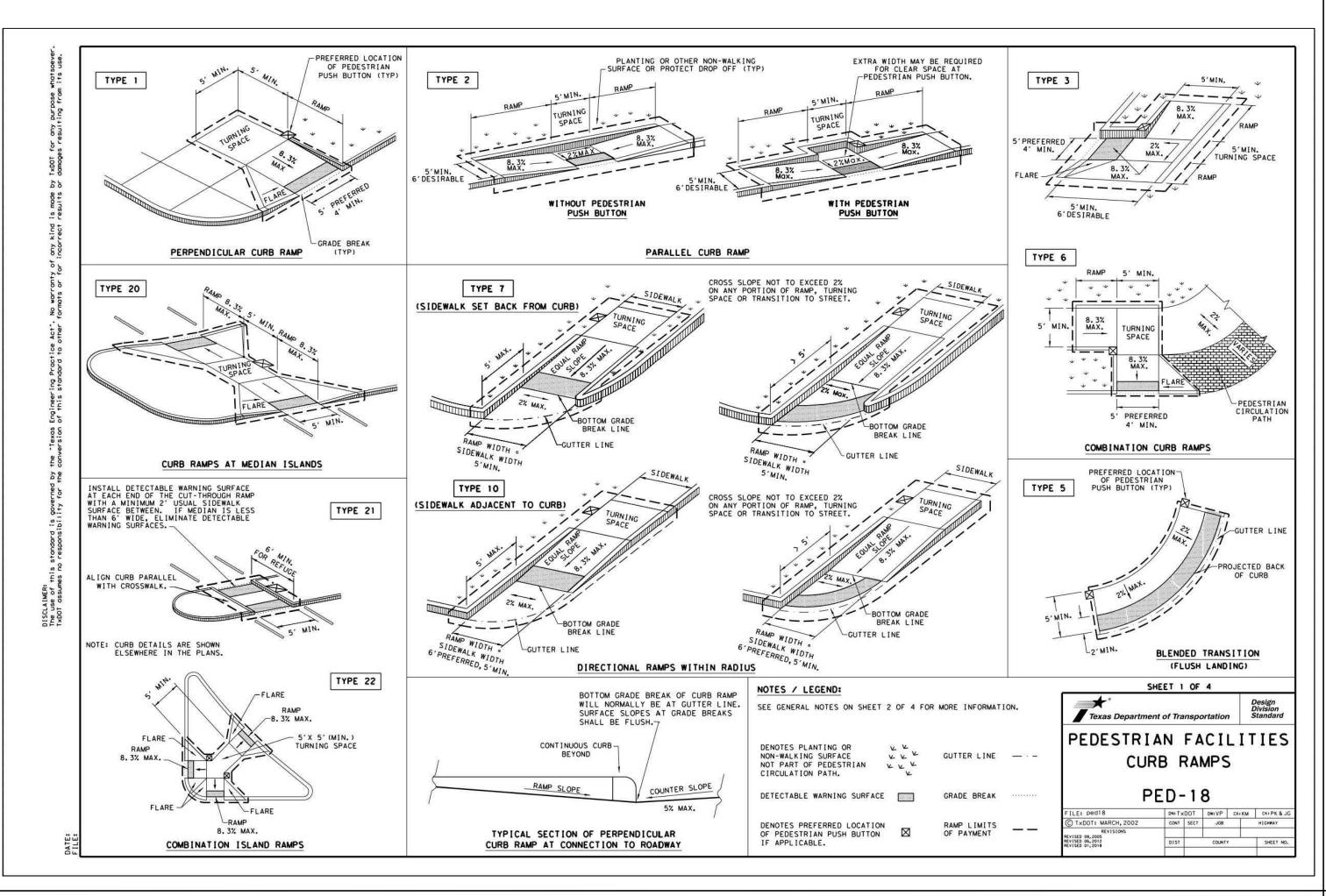
GENERAL NOTES:

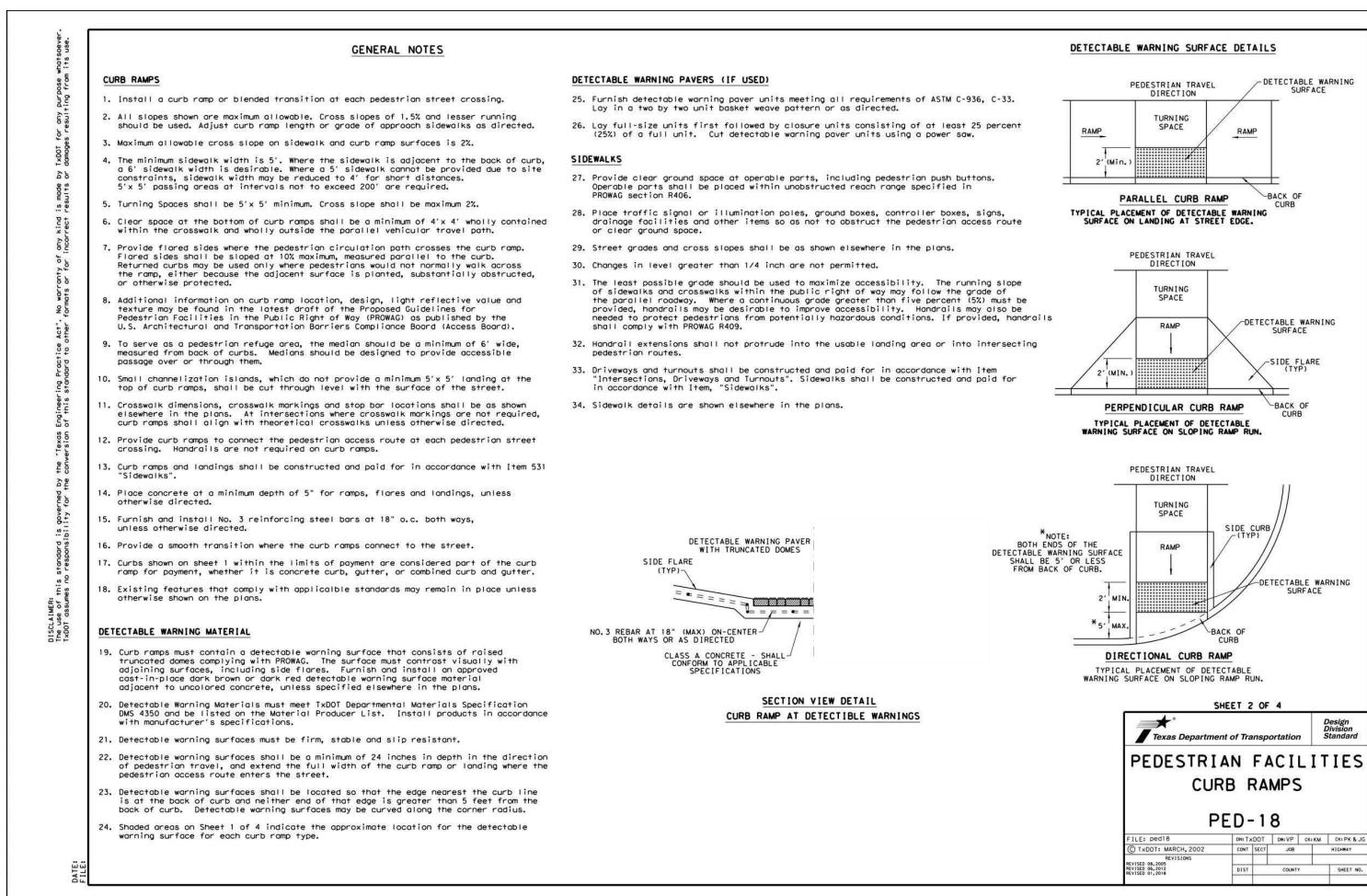
- 1. CONTRACTOR SHALL REFERENCE THE PROJECT PAVEMENT DESIGN REPORT PREPARED BY **TTL, INC.** DATED **MARCH 14, 2024.**
- 2. CONTRACTOR SHALL RETAIN A GEOTECHNICAL ENGINEER TO VERIFY THE SUB GRADE CONDITION PRIOR TO PLACING ANY BASE MATERIAL. GEOTECHNICAL ENGINEER SHALL DETERMINE THE SUB GRADE CONDITION AND IF CEMENT TREATMENT IS REQUIRED.
- 3. GEOTECHNICAL ENGINEER SHOULD VERIFY THE STREET SUBGRADE AT THE TIME OF CONSTRUCTION PRIOR TO PLACEMENT OF AGGREGATE BASE.
- 4. EARTHWORK ACTIVITIES ON THE PROJECT SHOULD BE OBSERVED AND EVALUATED BY TTL PERSONNEL.
 THE EVALUATION SHOULD INCLUDE OBSERVATION AND TESTING OF ALL FILL AND BACKFILL SOILS PLACED
- 5. THE FLEXIBLE BASE COURSE SHOULD BE CRUSHED LIMESTONE CONFORMING TO 2014 TXDOT STANDARD SPECIFICATIONS, ITEM 247, TYPE A, GRADES 1 OR 2.
- 6. THE MOISTURE CONTENT OF THE FILL SHOULD BE MAINTAINED WITHIN THE RANGE OF OPTIMUM WATER CONTENT TO 4 PERCENTAGE POINTS ABOVE THE OPTIMUM MOISTURE CONTENT AND COMPACTED TO 95 PERCENT OF THE MAXIMUM DR DENSITY DETERMINED IN ACCORDANCE WITH THE STANDARD COMPACTION EFFORT (ASTM D 698).
- 7. IN THE EVENT THAT THE CLAY FILL USED IS DIFFERENT THAN THE EXISTING SUBGRADE, THE RECOMMENDATIONS IN THE GEOTECHNICAL REPORT COULD BE INVALIDATED AND THE DESIGN ENGINEER MUST CONSULTED TO DETERMINE IF ADDITIONAL CBR TESTING AND THICKER PAVEMENT SECTIONS ARE
- 8. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING ALL MATERIAL TESTING WITH THE PROJECT GEOTECHNICAL ENGINEER. TESTING SHALL BE PAID FOR BY THE OWNER.
- 9. FILL MATERIAL SHOULD BE FREE OF DELETERIOUS MATERIAL WITH A MINIMUM CBR VALUE OF 4. THE GRAVEL SIZE SHOULD NOT EXCEED 3 INCHES IN DIAMETER. THE PI VALUE FOR COMPACTED FILL SHOULD BE BETWEEN 8 AND 15. LIME OR CEMENT APPLICATION RATES SHOULD BE RE—EVALUATED FOR THE FILL MATERIAL. THE MATERIAL SHOULD BE PLACED AS PER APPLICABLE CITY OR COUNTY GUIDELINES. CONTRACTOR TO REFER TO THE SECTION 4.2 OF THE GEOTECH REPORT FOR REQUIREMENTS FOR THE PLACEMENT OF ON—SITE SOILS AND SELECT FILL MATERIALS.
- 10. A BEXAR COUNTY PERMIT MUST BE OBTAINED BEFORE WORKING IN THE BEXAR COUNTY ROW.

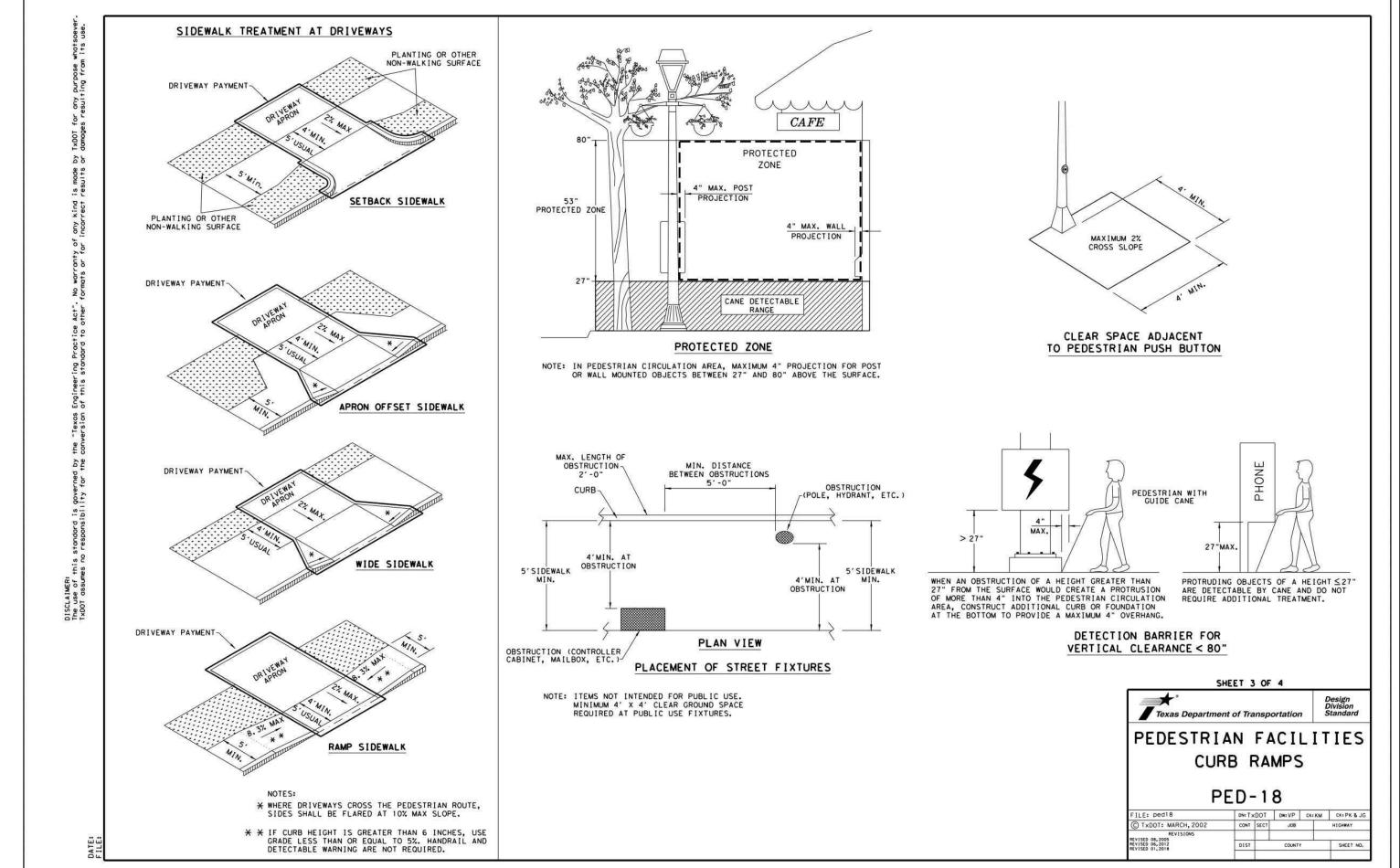
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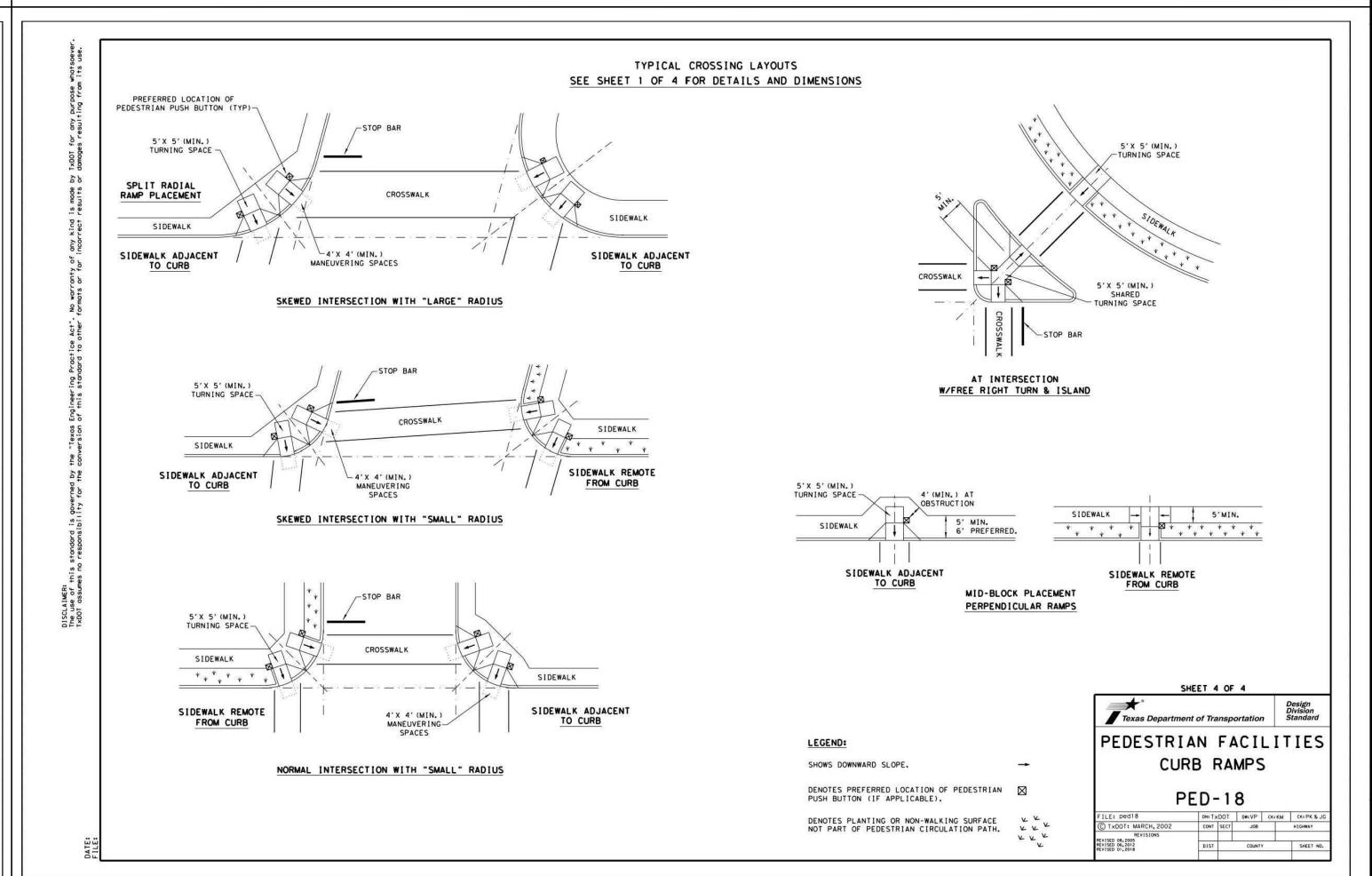
STREET SUBGRADE NOTES:

- 1. IF THE STREET SUBGRADE PLASTICITY INDEX VALUE IS GREATER THAN 20, SUBGRADE TREATMENT IS NEEDED AS PER BEXAR COUNTY REQUIREMENTS.
- 2. IF THE SUBGRADE PLASTICITY INDEX VALUE IS 20 OR LESS. SUBGRADE TREATMENT IS NOT NEEDED. THE SUBGRADE SHOULD BE MOISTURE CONDITIONED (COMPACTED TO A MINIMUM OF 95 PERCENT OF THE MAXIMUM DRY DENSITY AT A MINIMUM MOISTURE CONTENT OF OPTIMUM PLUS 2 PERCENT (TEX114E)).
- 3. THE SUBGRADE SHOULD BE TREATED USING 6 PERCENT CEMENT TO A DEPTH OF 6 INCHES AS NOTED ABOVE.
- 4. THE SUBGRADE SOILS SHOULD BE TESTED FOR SOIL SULFATE CONTENT PRIOR TO TREATMENT. IF THE SOIL SULFATE CONTENT IS HIGH, AN ALTERNATE PROCEDURE / RECOMMENDATION WILL BE NEEDED.
- 5. CEMENT APPLICATION RATE OF 33 LBS PER SQ YARD FOR 6 INCH DEPTH OF TREATMENT IS RECOMMENDED.
- 6. APPROVED FILL MATERIAL SHOULD BE USED TO RAISE THE GRADE. THE FILL SHOULD BE FREE OF DELETERIOUS MATERIAL WITH A MINIMUM CBR VALUE OF 4. THE PI VALUE FOR COMPACTED FILL SHOULD BE BETWEEN 8 AND 15. CEMENT APPLICATION RATES SHOULD BE RE—EVALUATED AND TESTED FOR SULFATE CONTENT PRIOR TO USE OF THE FILL MATERIAL. THE MATERIAL SHOULD BE PLACED AS PER APPLICABLE CITY OR COUNTY GUIDELINES. CONTRACTOR TO REFER TO THE SECTION 4.2 OF THE GEOTECH REPORT FOR REQUIREMENTS FOR THE PLACEMENT OF ON—SITE SOILS AND SELECT FILL MATERIALS.
- 7. THE SUBGRADE SHOULD BE PROOF ROLLED TO IDENTIFY SOFT AREAS BEFORE TREATMENT.

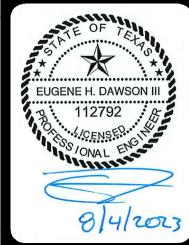








NO. REVISION DATE



PAPE-DAWSON
ENGINEERS
2000 NW LOOP 410 I SAN ANTONIO, TX 78213 I 210.375.9000

STONE GARDEN - UNIT 3B
BEXAR COUNTY, TEXAS

PLAT NO. 23-11800212

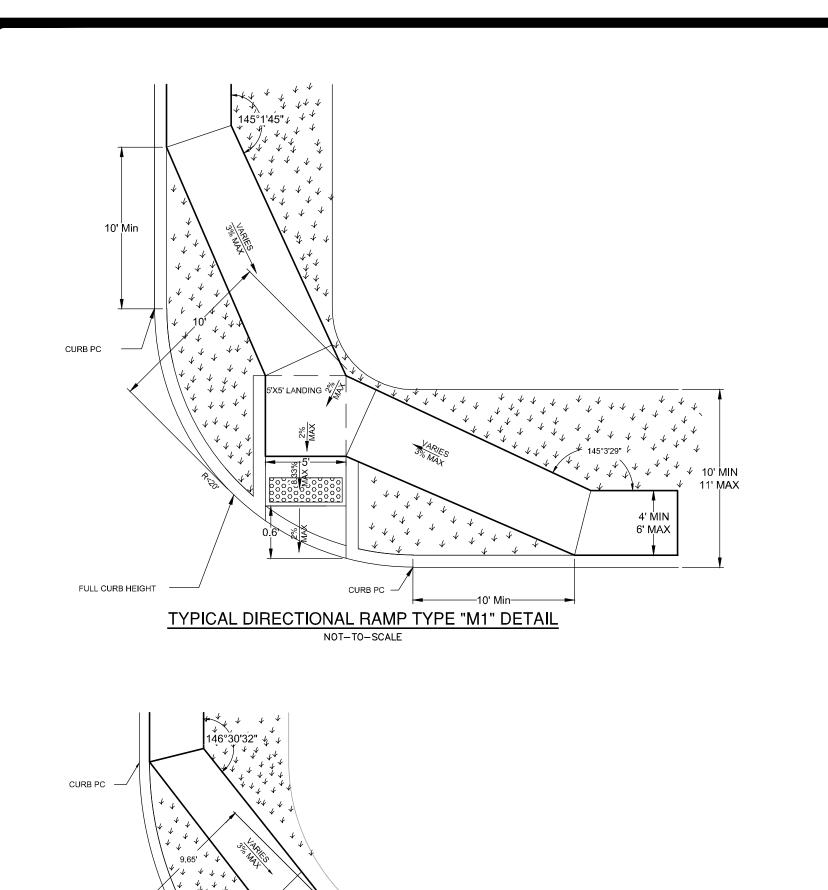
JOB NO. 12482-10

DATE AUGUST 2023

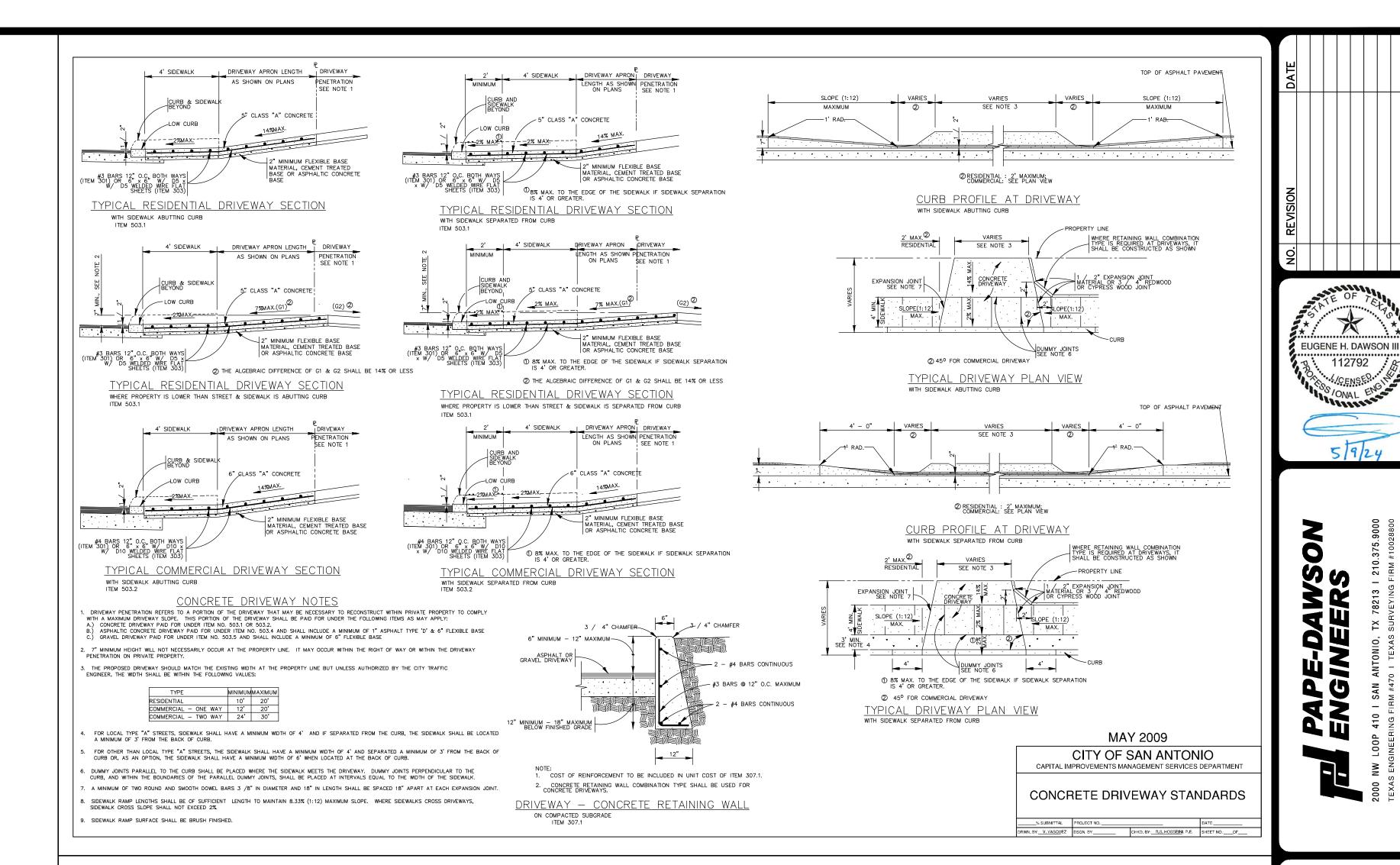
DESIGNER BK

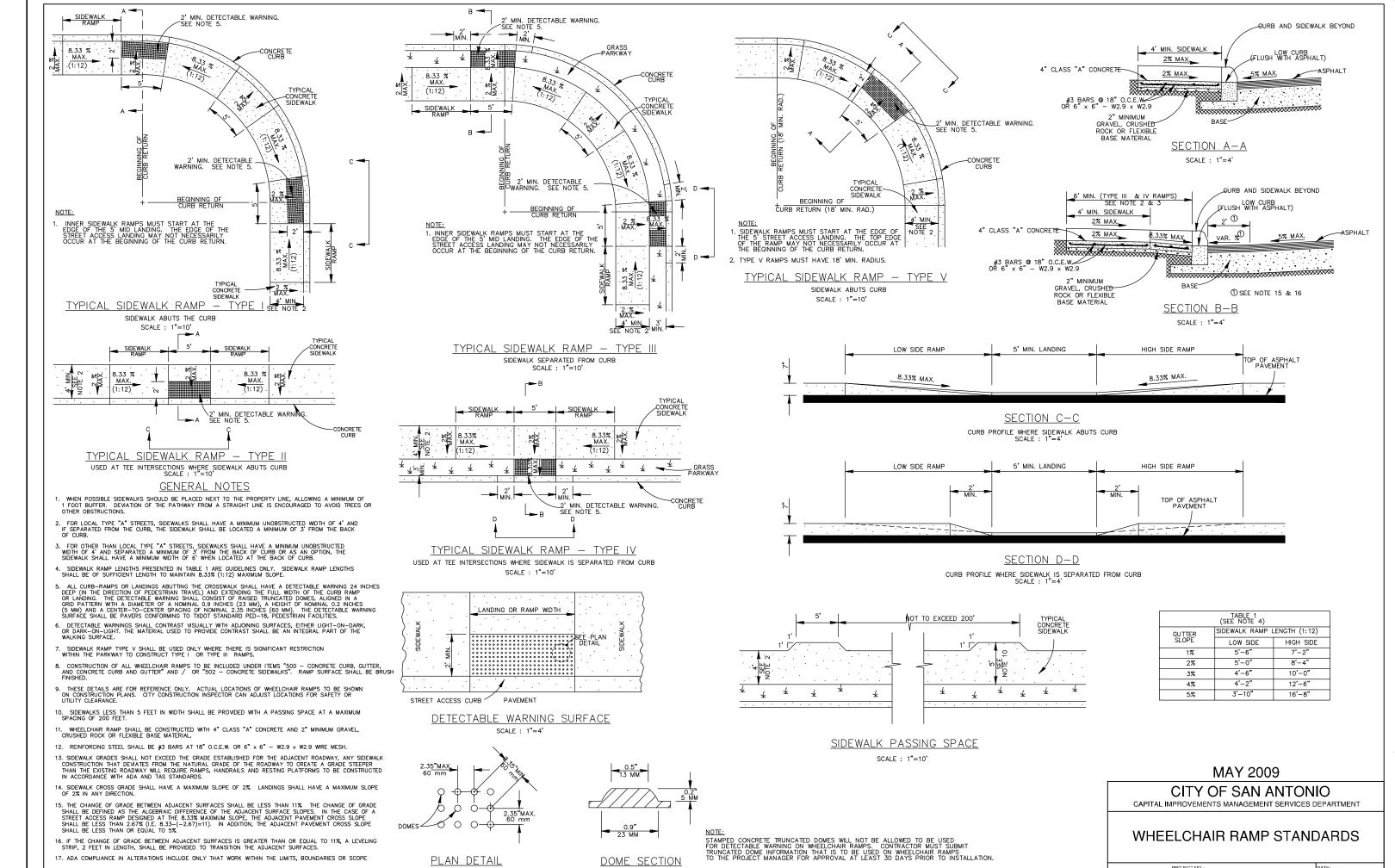
CHECKED DW DRAWN JR

C2.07



TYPICAL DIRECTIONAL RAMP TYPE "M3" DETAIL





PLAT NO. 23-11800212 JOB NO. 12482-10 MAY 2024

11' MAX

6' MAX

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DOME SECTION

CHKD. BY: R.S. HOSSEINI, P.E. SHEET NO.:

DESIGNER

 \mathfrak{C}

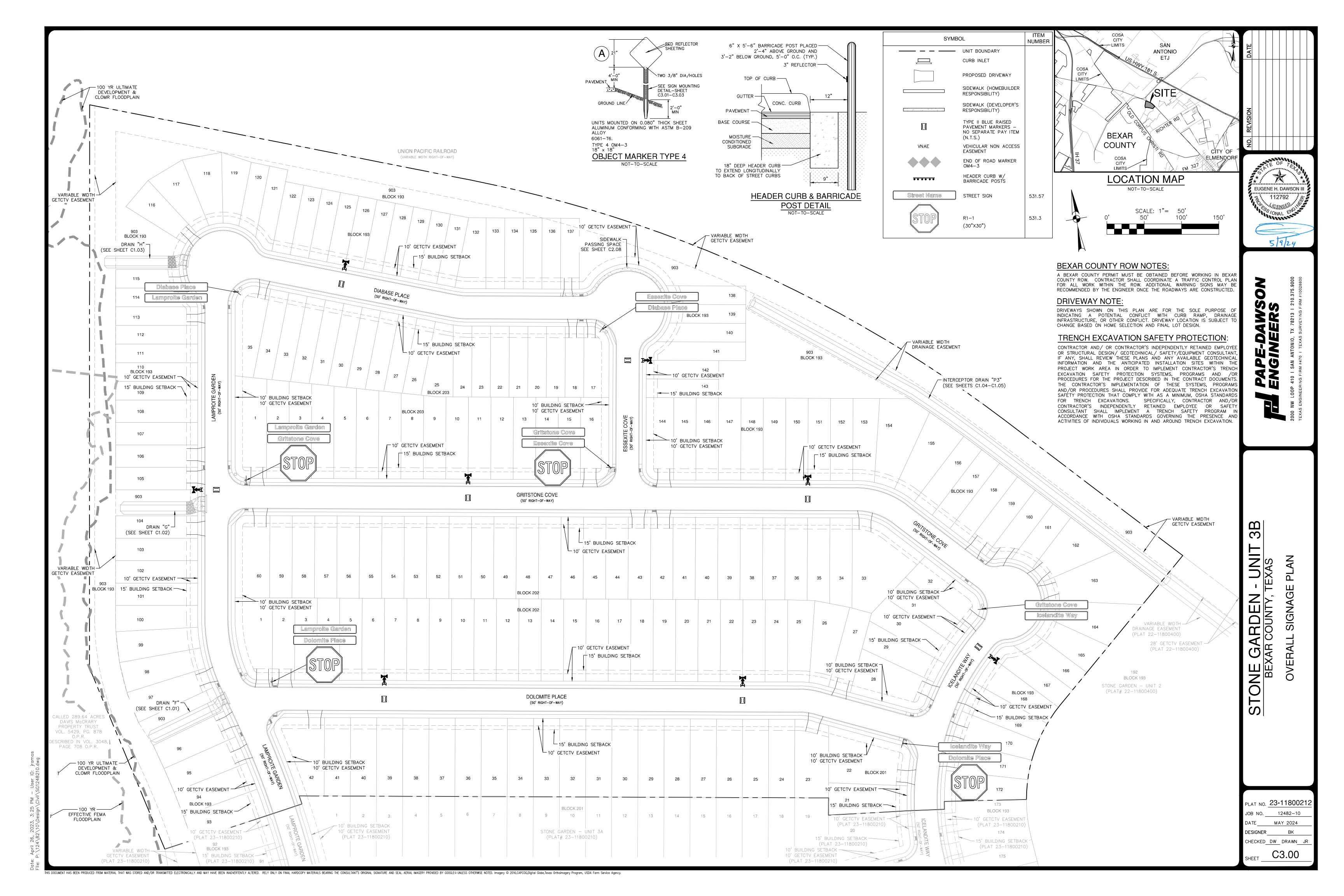
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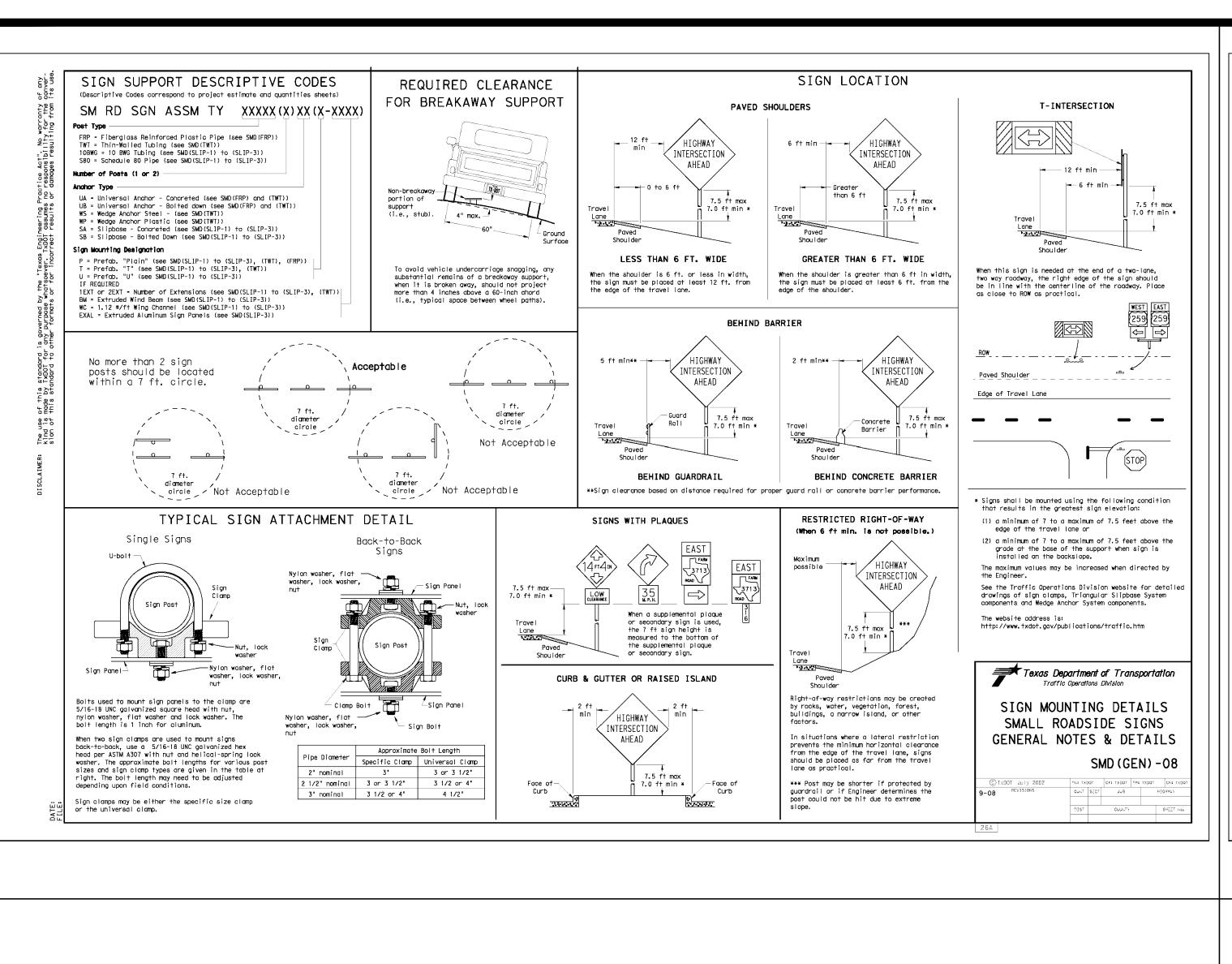
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GARDEI XAR COUNT

TONE

CHECKED<u>DW</u> DRAWN<u>J</u>F C2.08





Aluminum

Detail A

Sign Panel

Extruded Alum. Windbeam

8 Inch piece

(See SMD(2-1)) PLAQUE = 1 - variable length

& 1 - 32 inch piece

—1.12 #/ft Wing Channel

SM RD SGN ASSM TY XXXXX(1)XX(U-WC)

(See Note 11)

SM RD SGN ASSYM TY XXXXX(2)XX(P)

All dimensions are in english

unless detailed otherwise.

SM RD SGN ASSM TY XXXXX(1)XX(T)

SM RD SGN ASSM TY XXXXX(1)XX(P-BM)

Sign (if required)

SM RD SGN ASSM TY XXXXX(1)XX(T)

SM RD SGN ASSM TY XXXXX(1)XX(U)

SM RD SGN ASSM TY S80(1)XX(U-2EXT)

W(max)=6FT

1 ± 1/2

SM RD SGN ASSM TY XXXXX(1)XX(U)

SM RD SGN ASSM TY S80(1)XX(U-1EXT)

W(max)=8FT

0.6W -- 0.2W -

— 0.25 H

hex bolt with

per ASTM A307

galvanized per Item 445,

"Galvanizing.

(through) after

washers and

lock washer. Extender ____

bolt, nut, 2 flat

nut, lock washer

Universal)

5/16" x 3 3/4" hex bolt with

per ASTM A307

Detail F

Nylon washer, 5/16" x 1 3/4"

nut, lock washer,

2 flat washers per ASTM A307

galvanized per Item 445,

"Galvanizina."

5/16" x 3/4"

hex bolt with

aalvanized per

"Galvanizing.'

Detail C

nut, lock washer

and 2 flat washers per ASTM A307

TOP VIEW

Extruded

Aluminum Windbeam

Universal)

Detail D

FRICTION CAP DETAIL

Pipe O.D.

-.025"±.010"

Pipe O.D.

+.025"±.010"

(see SMD(2-1)

nut. lock washer

Splices shall only be allowed behind the sign substrate.

galvanized per Item 445, "Galvanizing."

Top View

3/8" x 3 1/2" heavy hex

Item 445 "Galvanizing."

🛚 🖌 A307 galvanized per

U-Bracket

Friction caps may be manufactured from hot rolled

or cold rolled steel sheets. The minimum sheet metal

The rim edges shall be reasonably straight and

thickness shall be 24 gauge for all cap sizes.

smooth. Caps shall be sized and formed in such a manner as to produce a drive-on friction fit and

have no tendency to rock when seated on the pipe.

The depth shall be sufficient to give positive

protection against entrance of rainwater. They

shall be free of sharp creases or indentations

Caps shall have an electrodeposited coating of

zinc in accordance with the requirements of ASTM

and show no evidence of metal fracture.

B633 Class FE/ZN 8.

bolt with nut, lock washer

and 2 flat washers per ASTM

1/2" x 4" heavy

Item 445, "Galvanizing."

Detail

Universal)

washer and 2 flat washers per ASTM A307 galvanized per

Detail B

GENERAL NOTES:

| SIGN SUPPORT # OF POSTS | MAX. SIGN AREA | 10 BWG | 1 | 16 SF | 10 BWG | 2 | 32 SF |

. The Engineer may require that a Schedule 80 post be

A Aluminum sign blanks shall conform to Departmental Material Specifications DMS-7110 and shall have the following minimum thicknesses: 0.080 for signs less than 7.5 sq. ft., 0.100 for signs 7.5 to 15 sq. ft., and 0.125 for signs greater than 15 sq. ft.

5. Signs that require specific supports due to reasons

in addition to windloading are indicated on the "REQUIRED SUPPORT" table on this sheet.
6. For horizontal rectangular signs fabricated from flat aluminum, T-brackets are used for signs 24 inches or

less in height. U-brackets are used for signs of greater height.

7. When two triangular slipbase supports are used to support a single sign, they shall not be "rigidly" connected to each other except through the sign panel. This will allow each support to act independently when impacted by an errort vehicle.

when impacted by an errant vehicle.

8. Wing channel shall meet ASTM A 1011 SS Gr 50 and be galvanized per ASTM A 123.

9. Excess pipe, wing channel, or windbeam shall be cut

off so that it does not extend beyond the sign panel

(i.e., excess support shall not be visible when the sign is viewed from the front.) Repair galvanized coating at cut support ends per Item 445, "Galvanizing."

10. Additional route markers may be added vertically, provided the total sign area does not exceed the maximum allowable amount per Note 1.

11. Additional sign clamp required on the "T-bracket" post for 24 inch height signs. Place the clamp 3 inches above

bottom of sign when possible.

12.Post open ends shall be fitted with Friction Caps.

REQUIRED SUPPOR

SIGN DESCRIPTION

48-inch STOP sign (R1-1)

60-inch YIELD sign (R1-2)

48x60-inch signs

48x60-inch signs

48x16-inch ONE-WAY sign (R6-1)

36x48, 48x36, and 48x48-inch signs

48x48-inch signs (diamond or square)

48-inch Advance School X-ing sign (S1-

48-inch School X-ing sign (S2-1)

Large Arrow sign (W1-6 & W1-7)

13. Sign blanks shall be the sizes and shapes shown on the

' 10BWG(1)XX(P-BM) TY 10BWG(1)XX(T)

Y 10BWG(1)XX(P-BM) TY 10BWG(1)XX(T)

10BWG (1) XX (P-BM)

TY 10BWG(1)XX(T)

TY S80(1)XX(T)

TY 10BWG(1)XX(T)

TY S80(1)XX(T)

TY 10BWG(1)XX(T)

TY 10BWG(1)XX(T)

TY 10BWG(1)XX(T)

SMD (SLIP-2) -08

**Texas Department of Transportation

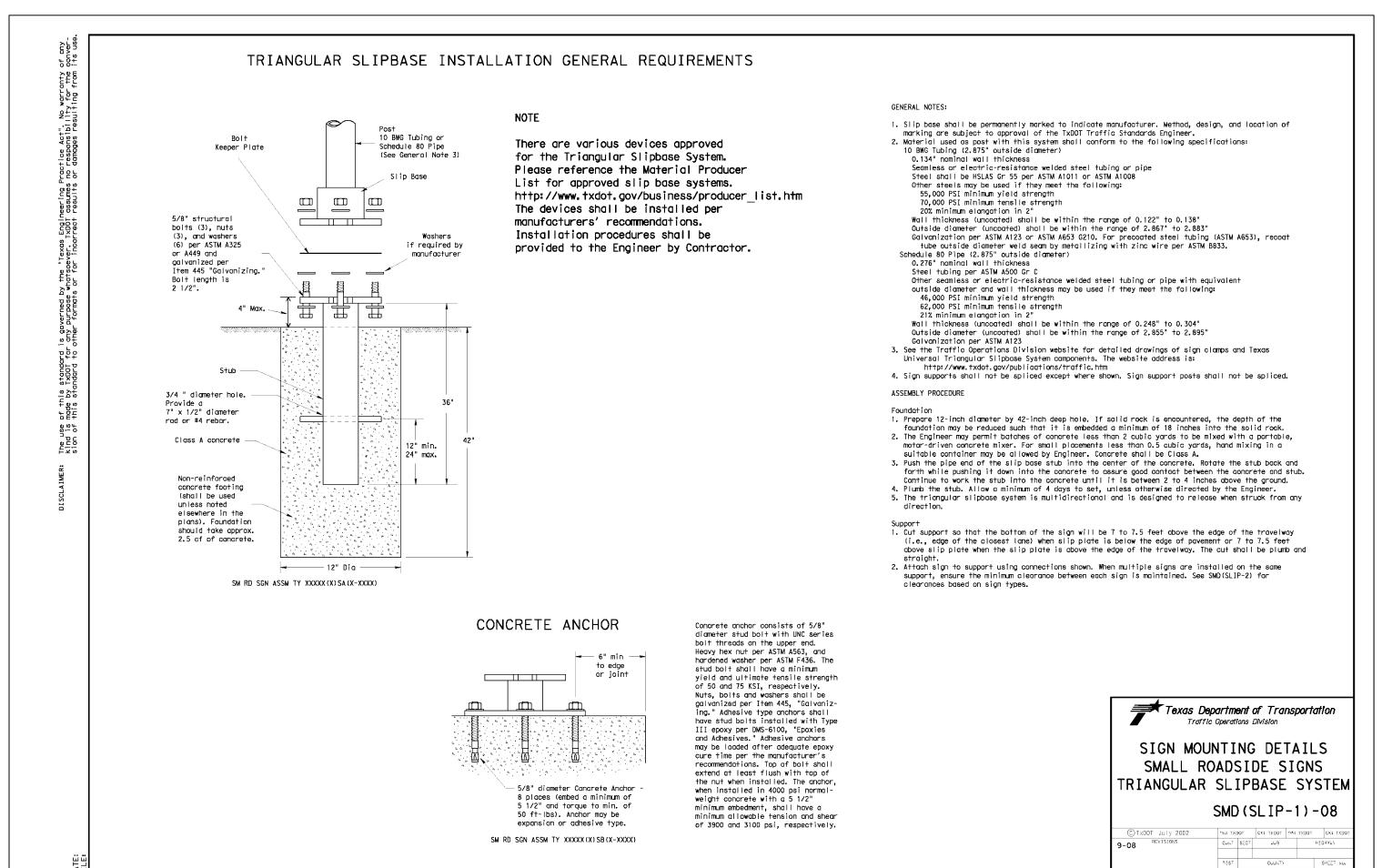
SIGN MOUNTING DETAILS

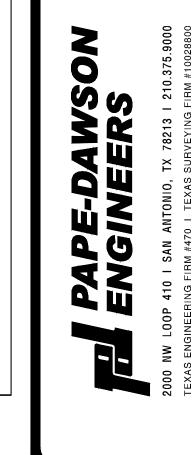
SMALL ROADSIDE SIGNS

TRIANGULAR SLIPBASE SYSTEM

used in place of a 10 BWG where a sign height is abnormally high due to a fill slope.
Sign supports shall not be spliced except where shown

Sign support posts shall not be spliced.





EUGENE H. DAWSON II



- NO. 23-1180021 12482-10 DESIGNER HECKED DW DRAWN

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SIDE VIEW

3/8" x 3 1/2" square

per ASTM A307 galvanized

"Galvanizing." (Bolt

head bolt, nut, flat

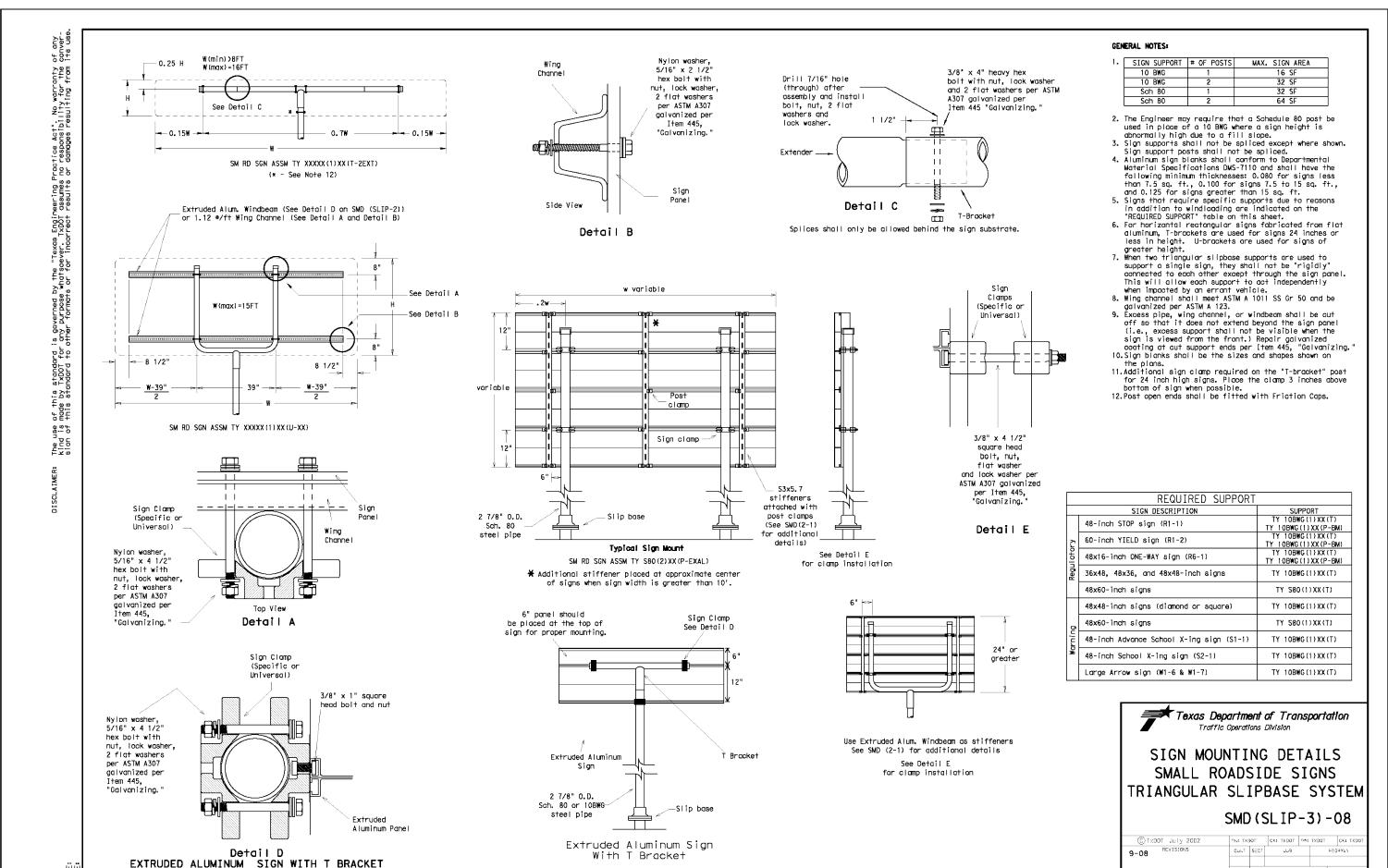
er Item 445

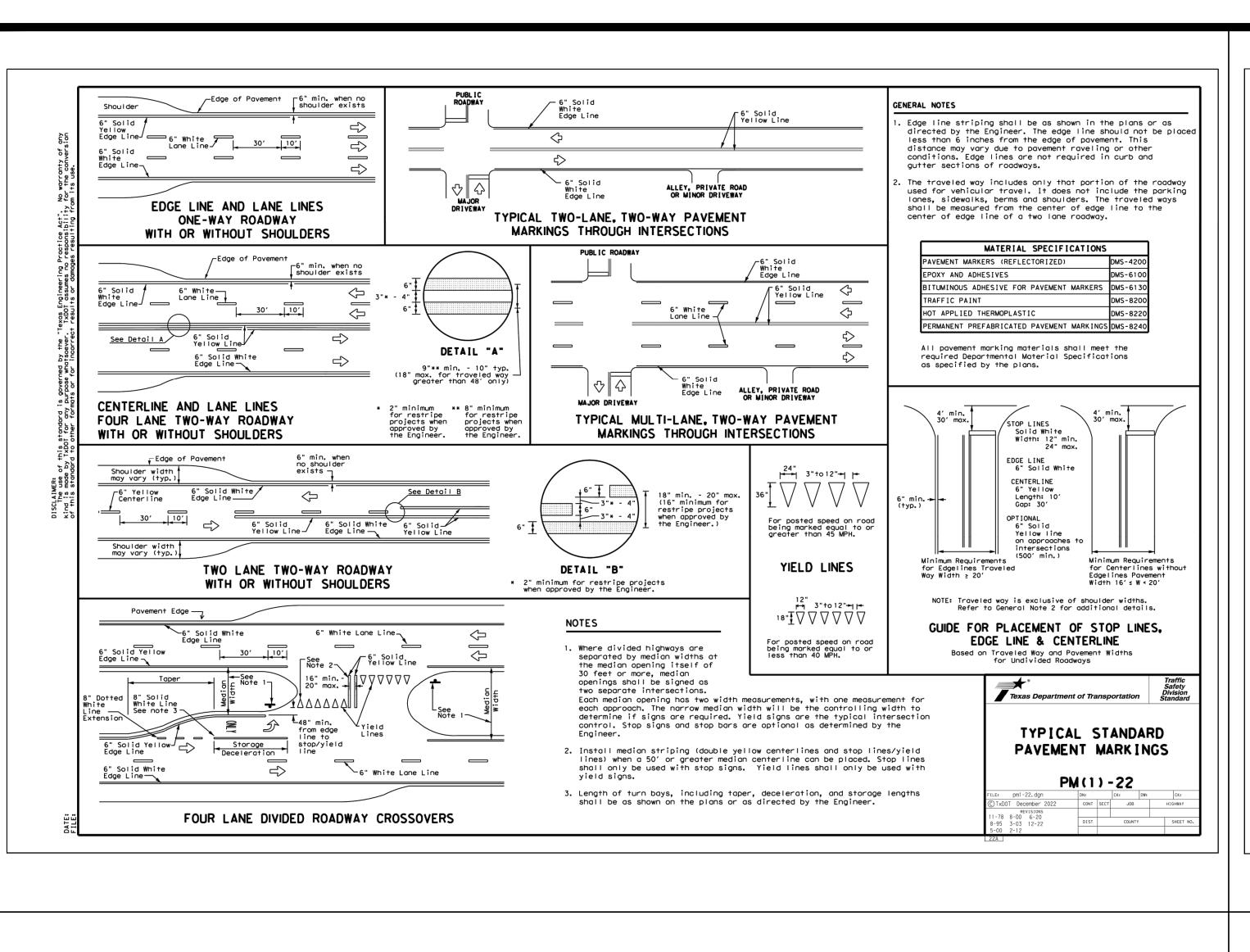
length may vary depending on sign clamp type and

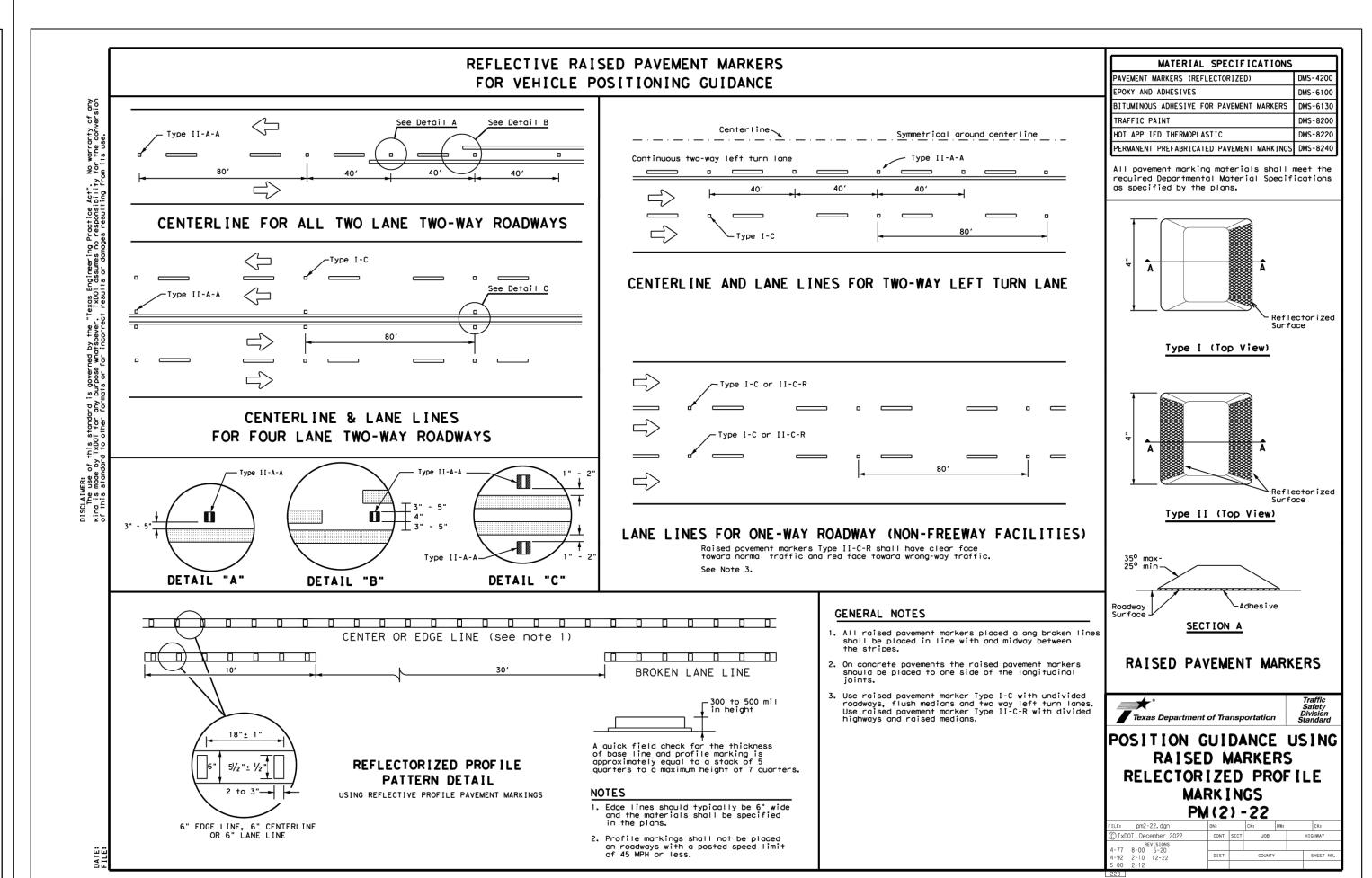
pipe diameter.

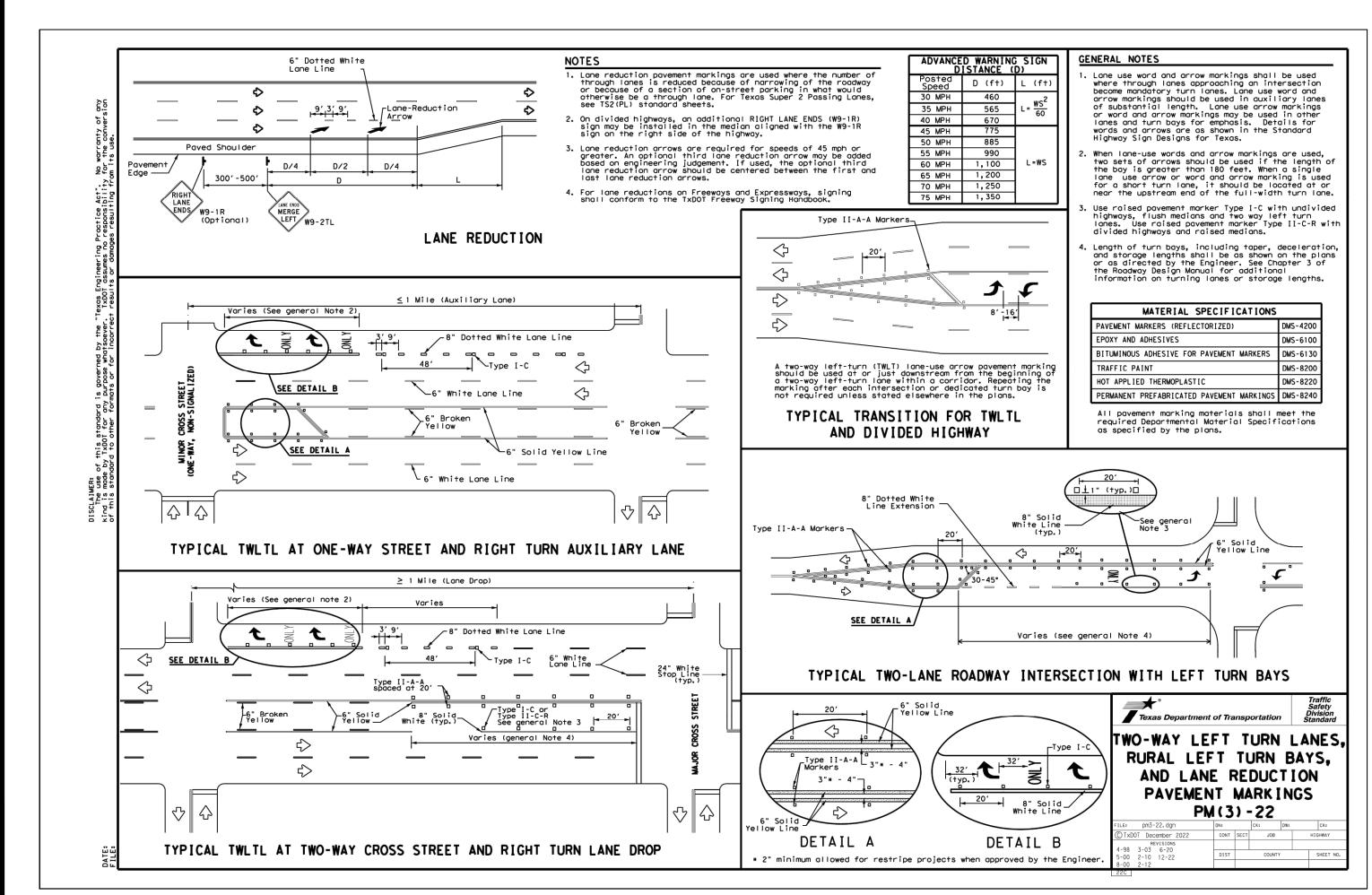
Variation

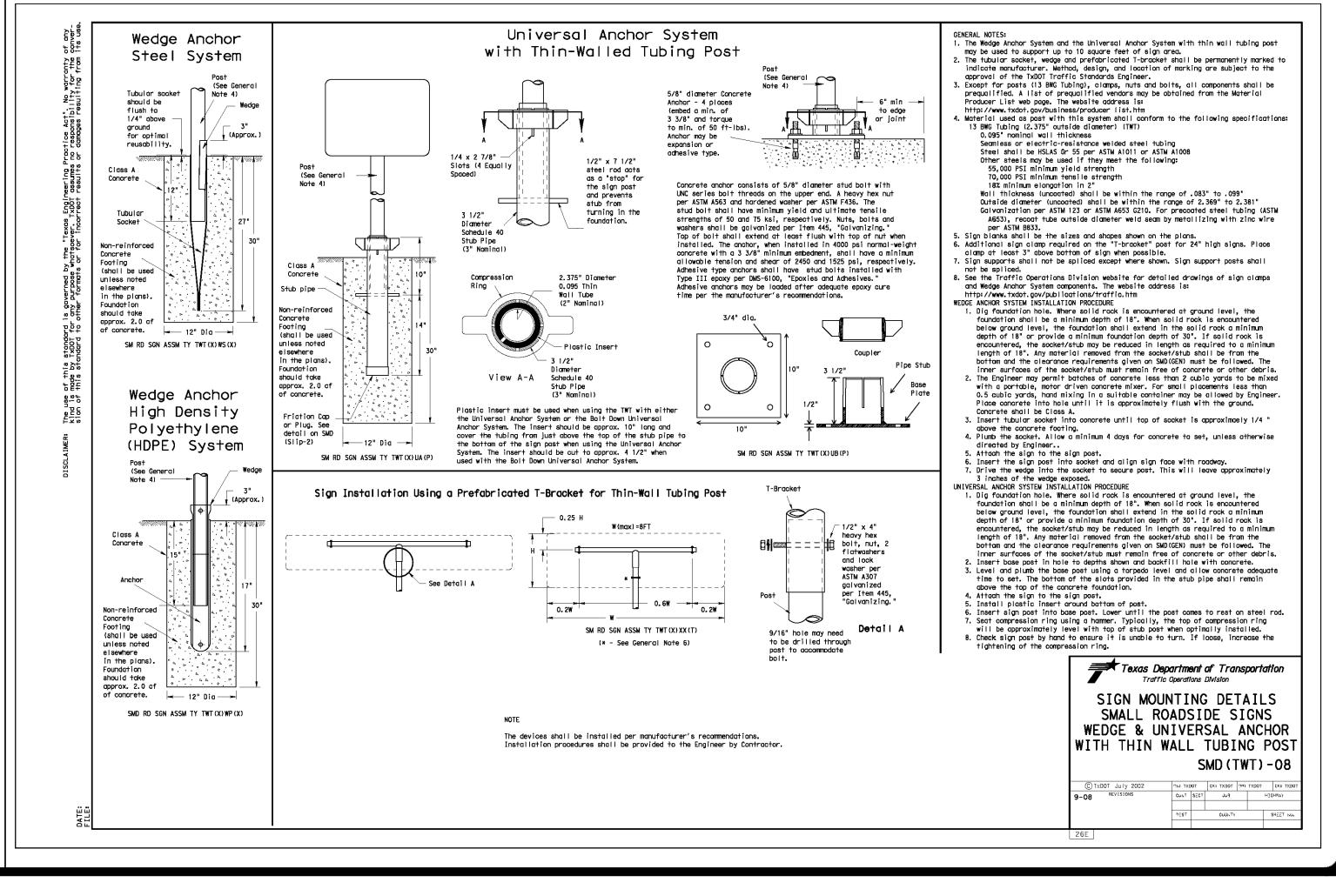
Rolled Crimp to











PAPE-DAWSON

FILE ENGINEERS

2000 NW LOOP 410 I SAN ANTONIO, TX 78213 I 210.375.9000

EUGENE H. DAWSON III

2/29/24

ONE GARDEN - UNIT 3B

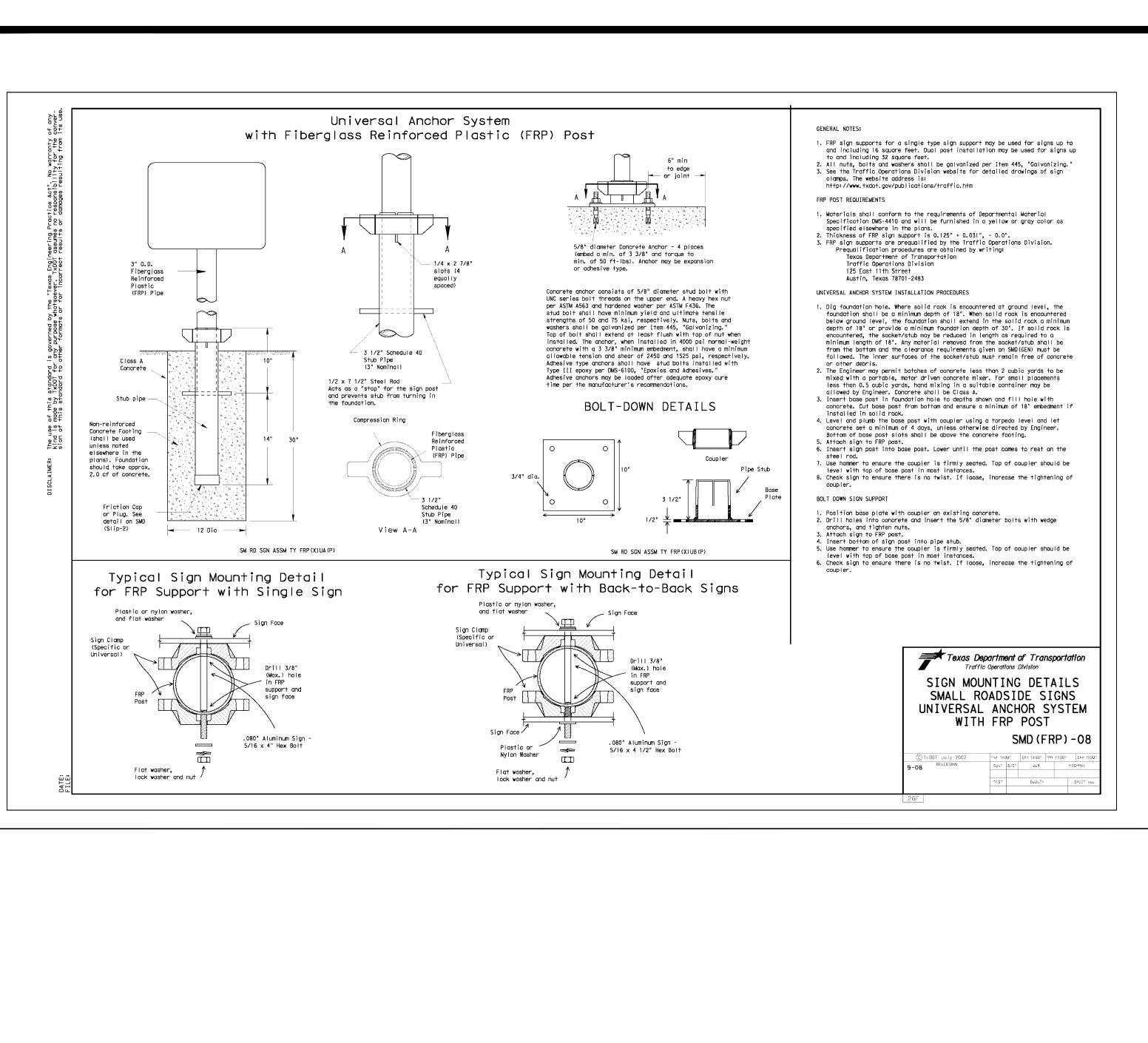
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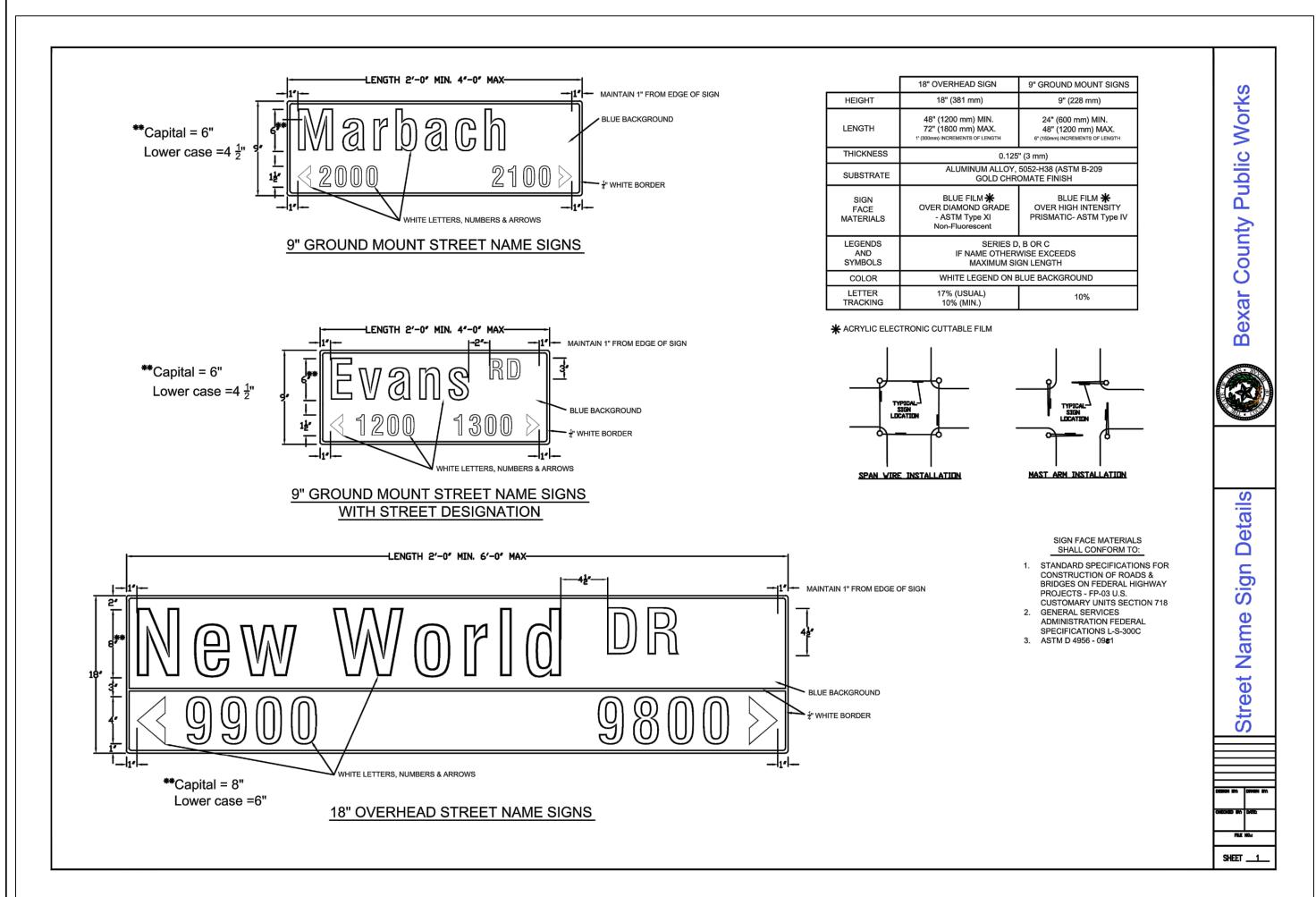
JOB NO. 12482-10

DATE FEBRUARY 2024

DESIGNER BK

CHECKED DW DRAWN JR







EUGENE H. DAWSON III

2/29/24

STONE GARDEN - UNIT 3B
BEXAR COUNTY, TEXAS

BEXAR COUNTY, TE

PLAT NO. 23-11800212

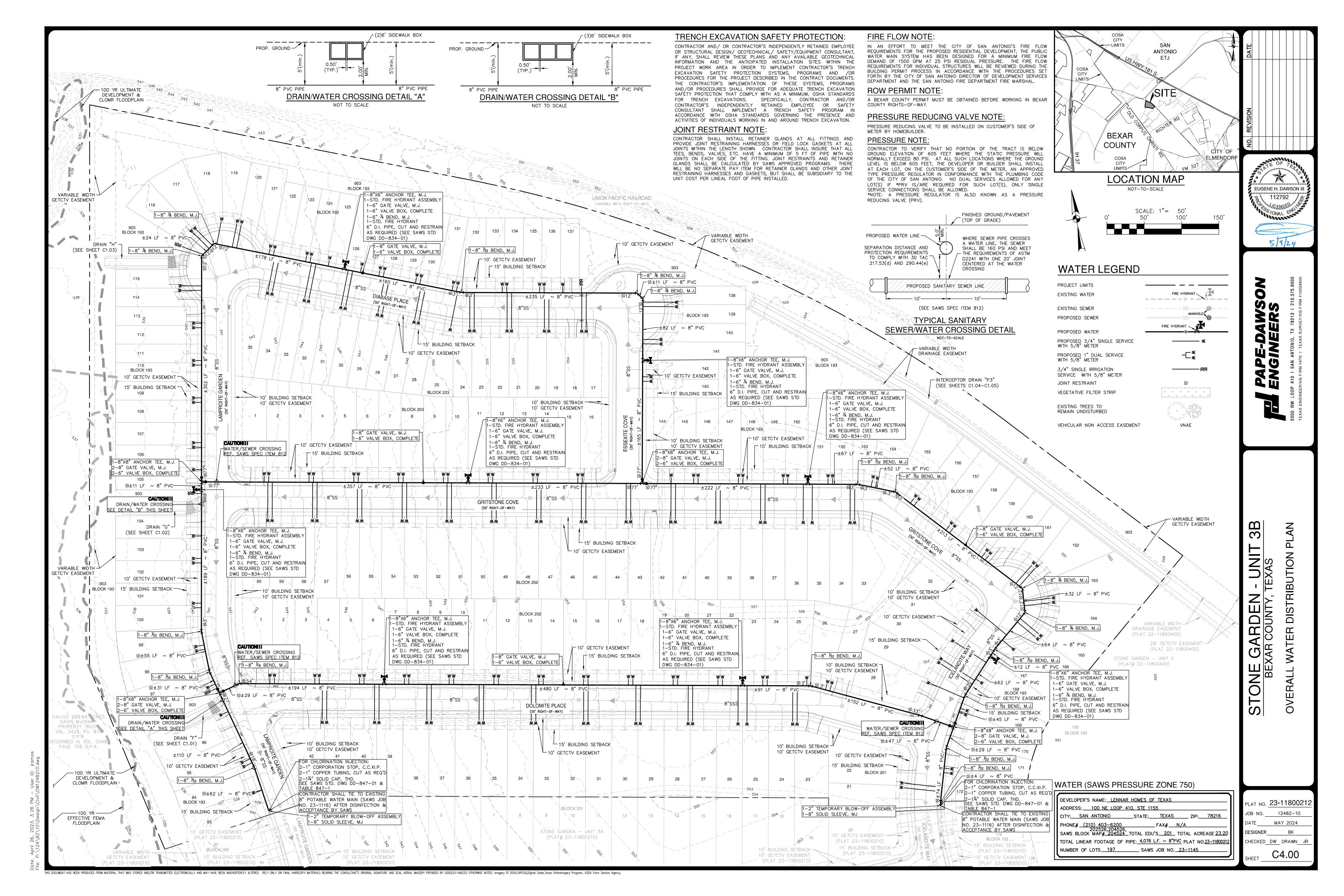
JOB NO. 12482-10

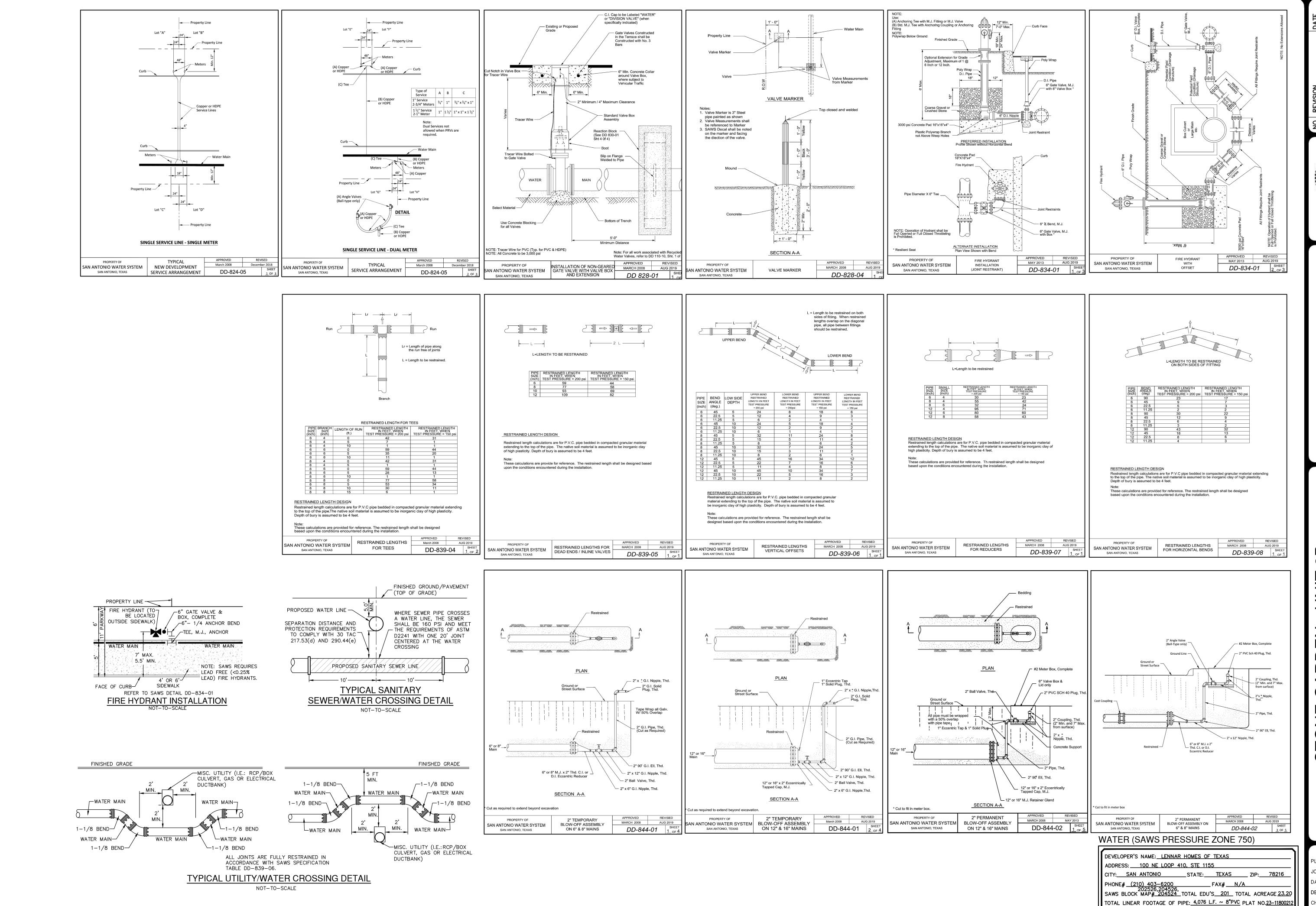
DATE FEBRUARY 2024

DESIGNER BK

CHECKED DW DRAWN JR

C3.03





3B

EUGENE H. DAWSON III

2/29/24

PLAT NO. 23-1180021 12482-10 DATE FEBRUARY 2024 DESIGNER CHECKED DW DRAWN J

NUMBER OF LOTS 197 SAWS JOB NO. 23-1145

	SAWS CONSTRUCTION NOT (LAST REVISED JANUARY 2022)
	SAWS GENERAL SECTION
	ALL MATERIALS AND CONSTRUCTION PROCEDURES WITHIN CONTRACT SHALL BE APPROVED BY THE SAN ANTONIO WATER COMPLY WITH THE PLANS, SPECIFICATIONS, GENERAL CONDITIONS OF THE PLANS OF THE PLA
	A. CURRENT TEXAS COMMISSION ON ENVIRONMENTAL QUALIT CRITERIA FOR DOMESTIC WASTEWATER SYSTEM", TEXAS CODE (TAC) TITLE 30 PART 1 CHAPTER 217 AND WATER", TAC TITLE 30 PART 1 CHAPTER 290. B. CURRENT TXDOT "STANDARD SPECIFICATIONS FOR CHICHWAYS, STREETS AND DRAINAGE". C. CURRENT "SAN ANTONIO WATER SYSTEM STANDARD SPECIFICAT WATER AND SANITARY SEWER CONSTRUCTION". D. CURRENT CITY OF SAN ANTONIO "STANDARD SPECIFICAT WORKS CONSTRUCTION". E. CURRENT CITY OF SAN ANTONIO "UTILITY EXCAVATION (UECM).
	2. THE CONTRACTOR SHALL NOT PROCEED WITH ANY PIPE INSTA THEY OBTAIN A COPY OF THE APPROVED COUNTER F CONSTRUCTION PERMIT (GCP) FROM THE CONSULTANT AND HA SAWS CONSTRUCTION INSPECTION DIVISION TO PROCEED WITH ARRANGED A MEETING WITH THE INSPECTOR AND CONSULT REQUIREMENTS. WORK COMPLETED BY THE CONTRACTOR WI' COUNTER PERMIT AND/OR A GCP WILL BE SUBJECT REPLACEMENT AT THE EXPENSE OF THE CONTRACTORS AND/O
	3. THE CONTRACTOR SHALL OBTAIN THE SAWS STANDARD DETA WEBSITE, HTTP://WWW.SAWS.ORG/BUSINESS_CENTER/SPECS. NOTED WITHIN THE DESIGN PLANS.
	4. THE CONTRACTOR IS TO MAKE ARRANGEMENTS WITH THE INSPECTION DIVISION AT (210) 233-2973, ON NOTIFICATION PROCEDURES THAT WILL IN AFFECTED HOME RESIDENTS AND/OR PROPERTY OWNERS 48 BEGINNING ANY WORK.
	5. LOCATION AND DEPTH OF EXISTING UTILITIES AND SERVICE THE PLANS ARE UNDERSTOOD TO BE APPROXIMATE. ACT DEPTHS MUST BE FIELD VERIFIED BY THE CONTRACTOR AT LEA CONSTRUCTION. IT SHALL BE THE CONTRACTOR'S RESPON UTILITY SERVICE LINES AS REQUIRED FOR CONSTRUCTION AN DURING CONSTRUCTION AT NO COST TO SAWS.
	6. THE CONTRACTOR SHALL VERIFY THE EXACT LOCATION OF UN AND DRAINAGE STRUCTURES AT LEAST 1—2 WEEKS PRIO WHETHER SHOWN ON PLANS OR NOT. PLEASE ALLOW UP TO 7 LOCATES REQUESTING PIPE LOCATION MARKERS ON SAFOLLOWING CONTACT INFORMATION ARE SUPPLIED FOR VERIFICA
	 SAWS UTILITY LOCATES: HTTP: //www.saws.org/service/ 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
	7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR RESTORIN CURBS, STREETS, DRIVEWAYS, SIDEWALKS, LANDSCAPING AND ORIGINAL OR BETTER CONDITION IF DAMAGES ARE MADE AS PROJECT'S CONSTRUCTION.
	8. ALL WORK IN TEXAS DEPARTMENT OF TRANSPORTATION (TX COUNTY RIGHT-OF-WAY SHALL BE DONE IN ACCORDANCE CONSTRUCTION SPECIFICATIONS AND PERMIT REQUIREMENTS.
	9. THE CONTRACTOR SHALL COMPLY WITH CITY OF SAN GOVERNING MUNICIPALITY'S TREE ORDINANCES WHEN EXCAVATING
	10. THE CONTRACTOR SHALL NOT PLACE ANY WASTE MATERIAL FLOOD PLAIN WITHOUT FIRST OBTAINING AN APPROVED FLOOD
	11. HOLIDAY WORK: CONTRACTORS WILL NOT BE ALLOWED TO PER SAWS RECOGNIZED HOLIDAYS. REQUEST SHOULD BE SENT TO CONSTWORKREQ@SAWS.ORG.
	WEEKEND WORK: CONTRACTORS ARE REQUIRED TO NOTIFY I CONSTRUCTION DEPARTMENT 48 HOURS IN ADVANCE TO REQ REQUEST SHOULD BE SENT TO CONSTWORKREQ@SAWS.ORG.
	ANY AND ALL SAWS UTILITY WORK INSTALLED WITHOU APPROVAL WILL BE SUBJECT TO BE UNCOVERED FOR PROPER
	12. COMPACTION NOTE (ITEM 804): THE CONTRACTOR SHALL E MEETING THE COMPACTION REQUIREMENTS ON ALL TRENCH PAYING FOR THE TESTS PERFORMED BY A THIRD PARTY. COI BE DONE AT ONE LOCATION POINT RANDOMLY SELECTED, OR SAWS INSPECTOR AND/OR THE TEST ADMINISTRATOR, PER E LIFT PER 400 LINEAR FEET AT A MINIMUM. THIS PROJECT WI AND FINALIZED BY SAWS WITHOUT THIS REQUIREMENT BEING I PROVIDING ALL NECESSARY DOCUMENTED TEST RESULTS.
	13. A COPY OF ALL TESTING REPORTS SHALL BE FORWARDED TO INSPECTION DIVISION.

SAWS CONSTRUCTION NOTES (LAST REVISED JANUARY 2022)

GENERAL SECTION

- ATERIALS AND CONSTRUCTION PROCEDURES WITHIN THE SCOPE OF THIS
- ACT SHALL BE APPROVED BY THE SAN ANTONIO WATER SYSTEM (SAWS) AND Y WITH THE PLANS, SPECIFICATIONS, GENERAL CONDITIONS AND WITH THE
- JRRENT TEXAS COMMISSION ON ENVIRONMENTAL QUALITY (TCEQ) "DESIGN RITERIA FOR DOMESTIC WASTEWATER SYSTEM", TEXAS ADMINISTRATIVE DDE (TAC) TITLE 30 PART 1 CHAPTER 217 AND "PUBLIC DRINKING" ATER", TAC TITLE 30 PART 1 CHAPTER 290.
- JRRENT TXDOT "STANDARD SPECIFICATIONS FOR CONSTRUCTION OF GHWAYS, STREETS AND DRAINAGE" JRRENT "SAN ANTONIO WATER SYSTEM STANDARD SPECIFICATIONS FOR ATER AND SANITARY SEWER CONSTRUCTION". JRRENT CITY OF SAN ANTONIO "STANDARD SPECIFICATIONS FOR PUBLIC
- ORKS CONSTRUCTION". JRRENT CITY OF SAN ANTONIO "UTILITY EXCAVATION CRITERIA MANUAL"
- ONTRACTOR SHALL NOT PROCEED WITH ANY PIPE INSTALLATION WORK UNTIL OBTAIN A COPY OF THE APPROVED COUNTER PERMIT OR GENERAL RUCTION PERMIT (GCP) FROM THE CONSULTANT AND HAS BEEN NOTIFIED BY CONSTRUCTION INSPECTION DIVISION TO PROCEED WITH THE WORK AND HAS GED A MEETING WITH THE INSPECTOR AND CONSULTANT FOR THE WORK EMENTS. WORK COMPLETED BY THE CONTRACTOR WITHOUT AN APPROVED ER PERMIT AND/OR A GCP WILL BE SUBJECT TO REMOVAL AND CEMENT AT THE EXPENSE OF THE CONTRACTORS AND/OR THE DEVELOPER.
- ONTRACTOR SHALL OBTAIN THE SAWS STANDARD DETAILS FROM THE SAWS HTTP://WWW.SAWS.ORG/BUSINESS_CENTER/SPECS. UNLESS OTHERWISE
- ONTRACTOR IS TO MAKE ARRANGEMENTS WITH THE SAWS CONSTRUCTION 233-2973, ON NOTIFICATION PROCEDURES THAT WILL BE USED TO NOTIFY TED HOME RESIDENTS AND/OR PROPERTY OWNERS 48 HOURS PRIOR TO
- ION AND DEPTH OF EXISTING UTILITIES AND SERVICE LATERALS SHOWN ON PLANS ARE UNDERSTOOD TO BE APPROXIMATE. ACTUAL LOCATIONS AND 3 MUST BE FIELD VERIFIED BY THE CONTRACTOR AT LEAST 1 WEEK PRIOR TO RUCTION. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO LOCATE SERVICE LINES AS REQUIRED FOR CONSTRUCTION AND TO PROTECT THEM CONSTRUCTION AT NO COST TO SAWS.
- ONTRACTOR SHALL VERIFY THE EXACT LOCATION OF UNDERGROUND UTILITIES DRAINAGE STRUCTURES AT LEAST 1-2 WEEKS PRIOR TO CONSTRUCTION ER SHOWN ON PLANS OR NOT. PLEASE ALLOW UP TO 7 BUSINESS DAYS FOR S REQUESTING PIPE LOCATION MARKERS ON SAWS FACILITIES. THE ING CONTACT INFORMATION ARE SUPPLIED FOR VERIFICATION PURPOSES:
- AWS UTILITY LOCATES: HTTP://WWW.SAWS.ORG/SERVICE/LOCATES DSA DRAINAGE (210) 207-0724 OR (210) 207-6026
- OSA TRAFFIC SIGNAL OPERATIONS (210) 206-8480
- DSA TRAFFIC SIGNAL DAMAGES (210) 207-3951 XAS STATE WIDE ONE CALL LOCATOR 1-800-545-6005 OR 811
- CONTRACTOR SHALL BE RESPONSIBLE FOR RESTORING EXISTING FENCES, STREETS, DRIVEWAYS, SIDEWALKS, LANDSCAPING AND STRUCTURES TO ITS AL OR BETTER CONDITION IF DAMAGES ARE MADE AS A RESULT OF THE CT'S CONSTRUCTION.
- ORK IN TEXAS DEPARTMENT OF TRANSPORTATION (TXDOT) AND/OR BEXAR RIGHT-OF-WAY SHALL BE DONE IN ACCORDANCE WITH RESPECTIVE RUCTION SPECIFICATIONS AND PERMIT REQUIREMENTS.
- CONTRACTOR SHALL COMPLY WITH CITY OF SAN ANTONIO OR OTHER NING MUNICIPALITY'S TREE ORDINANCES WHEN EXCAVATING NEAR TREES.
- ONTRACTOR SHALL NOT PLACE ANY WASTE MATERIALS IN THE 100-YEAR PLAIN WITHOUT FIRST OBTAINING AN APPROVED FLOOD PLAIN PERMIT.
- Y WORK: CONTRACTORS WILL NOT BE ALLOWED TO PERFORM SAWS WORK ON RECOGNIZED HOLIDAYS. REQUEST SHOULD BE SENT TO WORKREQ@SAWS.ORG.
- END WORK: CONTRACTORS ARE REQUIRED TO NOTIFY THE SAWS INSPECTION JCTION DEPARTMENT 48 HOURS IN ADVANCE TO REQUEST WEEKEND WORK.
- AND ALL SAWS UTILITY WORK INSTALLED WITHOUT HOLIDAY/WEEKEND VAL WILL BE SUBJECT TO BE UNCOVERED FOR PROPER INSPECTION.
- CTION NOTE (ITEM 804): THE CONTRACTOR SHALL BE RESPONSIBLE FOR G THE COMPACTION REQUIREMENTS ON ALL TRENCH BACKFILL AND FOR FOR THE TESTS PERFORMED BY A THIRD PARTY COMPACTION TESTS WILL NE AT ONE LOCATION POINT RANDOMLY SELECTED. OR AS INDICATED BY THE INSPECTOR AND/OR THE TEST ADMINISTRATOR, PER EACH 12-INCH LOOSE ER 400 LINEAR FEET AT A MINIMUM. THIS PROJECT WILL NOT BE ACCEPTED NALIZED BY SAWS WITHOUT THIS REQUIREMENT BEING MET AND VERIFIED BY ING ALL NECESSARY DOCUMENTED TEST RESULTS.
- Y OF ALL TESTING REPORTS SHALL BE FORWARDED TO SAWS CONSTRUCTION

SAWS WATER NOTES

- PRIOR TO TIE-INS, ANY SHUTDOWNS OF EXISTING MAINS OF ANY SIZE MUST 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 ACCORDINGLY.
 - FOR WATER MAINS 12" OR HIGHER: SAWS EMERGENCY OPERATIONS | 4. CENTER (210) 233-2014
- ASBESTOS CEMENT (AC) PIPE, ALSO KNOWN AS TRANSITE PIPE WHICH IS KNOWN TO CONTAIN ASBESTOS- CONTAINING MATERIAL (ACM), MAY BE LOCATED WITHIN THE PROJECT LIMITS. SPECIAL WASTE MANAGEMENT PROCEDURES AND HEALTH AND SAFETY REQUIREMENTS WILL BE APPLICABLE WHEN REMOVAL AND/OR DISTURBANCE OF THIS PIPE OCCURS. SUCH WORK IS TO BE MADE UNDER SPECIAL SPECIFICATION ITEM NO. 3000, "SPECIAL SPECIFICATION FOR HANDLING ASBESTOS CEMENT PIPE".
- VALVE REMOVAL: WHERE THE CONTRACTOR IS TO ABANDON A WATER MAIN, THE CONTROL VALVE LOCATED ON THE ABANDONING BRANCH WILL BE REMOVED AND REPLACED WITH A CAP/PLUG. (NSPI)
- SUITABLE ANCHORAGE/THRUST BLOCKING OR JOINT RESTRAINT SHALL BE PROVIDED AT ALL OF THE FOLLOWING MAIN LOCATIONS: DEAD ENDS. PLUGS. CAPS. TEES. CROSSES. VALVES. AND BENDS. IN ACCORDANCE WITH THE STANDARD DRAWINGS DD-839 SERIES AND ITEM NO. 839, IN THE SAWS STANDARD SPECIFICATIONS FOR CONSTRUCTION.
- 5. ALL VALVES SHALL READ "OPEN RIGHT".
- PRVS REQUIRED: CONTRACTOR TO VERIFY THAT NO PORTION OF THE TRACT IS BELOW GROUND ELEVATION OF 605 FEET WHERE THE STATIC PRESSURE WILL NORMALLY EXCEED 80 PSI. AT ALL SUCH LOCATIONS WHERE THE GROUND LEVEL IS BELOW 605 FEET, THE DEVELOPER OR BUILDER SHALL INSTALL AT EACH LOT, ON THE CUSTOMER'S SIDE OF THE METER, AN APPROVED TYPE PRESSURE REGULATOR IN CONFORMANCE WITH THE PLUMBING CODE OF THE CITY OF SAN ANTONIO. NO DUAL SERVICES ALLOWED FOR ANY LOT(S) IF *PRV IS/ARE REQUIRED FOR SUCH LOT(S), ONLY SINGLE SERVICE CONNECTIONS SHALL BE ALLOWED. *NOTE: A PRESSURE REGULATOR IS ALSO KNOWN AS A PRESSURE REDUCING VALVE
- PIPE DISINFECTION WITH DRY HTH FOR PROJECTS LESS THAN 800 LINEAR (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. THE CONTRACTOR SHALL UTILIZE ALL APPROPRIATE SAFETY MEASURE TO PROTECT HIS PERSONNEL DURING DISINFECTION OPERATIONS.
- 8. BACKFLOW PREVENTION DEVICES:
- ALL IRRIGATION SERVICES WITHIN RESIDENTIAL AREAS ARE REQUIRED TO HAVE BACKFLOW PREVENTION DEVICES.
- ALL COMMERCIAL BACKFLOW PREVENTION DEVICES MUST BE APPROVED BY SAWS PRIOR TO INSTALLATION.
- UNTIL THE WATER MAIN HAS BEEN PRESSURE TESTED, CHLORINATED, AND SAWS HAS RELEASED THE MAIN FOR TIE-IN AND USE.
- 10. DIVISION VALVES: DIVISION VALVES SHOWN ON PLANS OR NOT SHOWN ON PLANS BUT FOUND IN THE FIELD SHALL ONLY BE OPERATED BY SAWS DISTRIBUTION AND COLLECTION STAFF AND ONLY WITH PRIOR WRITTEN APPROVAL OF THE SAWS DIRECTOR OF PRODUCTION AND OPERATIONS AND PROPER COORDINATION WITH ALL SAWS DEPARTMENTS. CONTRACTOR SHALL PROVIDE WRITTEN NOTIFICATION TO THE INSPECTOR A MINIMUM OF TWO WEEKS IN ADVANCE TO START THE COORDINATION PROCESS AND WILL BE INFORMED BY THE INSPECTOR WHEN THE DIVISION VALVE WILL BE OPERATED BY THE SAWS DISTRIBUTION AND COLLECTION STAFF. THE DIVISION VALVE CAN ONLY BE OPERATED BY SAWS DISTRIBUTION AND COLLECTION STAFF MEMBER NOT THE INSPECTOR OR THE CONTRACTOR. OPERATION OF A DIVISION VALVE WITHOUT THE EXPRESS PRIOR WRITTEN APPROVAL OF THE SAWS DISTRIBUTION AND COLLECTION STAFF WILL CONSTITUTE A MATERIAL BREACH OF ANY WRITTEN SAWS CONTRACT OR PERMIT IN ADDITION TO SUBJECTING THE CONTRACTOR TO LIABILITY FOR ANY AND ALL FINES, FEES, OR OTHER DAMAGES, DIRECT OR CONSEQUENTIAL, THAT MAY ARISE FROM OR BE CAUSED BY THE OPERATION OF THE VALVE WITHOUT PRIOR WRITTEN PERMISSION. PLEASE BE INFORMED THAT THE APPROVAL OF THE OPERATION OR OPENING OR CLOSING OF A DIVISION VALVE CAN TAKE SEVERAL WEEKS FOR APPROVAL. DIVISION VALVES WILL ALSO HAVE A VALVE LID LABELED DIVISION VALVE AND A LOCKING MECHANISM INSTALLED WITH A KEY. THE LOCK AND KEY MECHANISM WILL BE PAID FOR BY THE CONTRACTOR BUT

WILL BE INSTALLED BY SAWS DISTRIBUTION AND COLLECTION STAFF.

PROJECT WATER NOTES

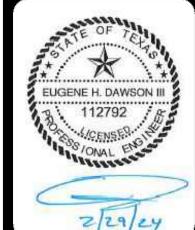
- MACHINE CHLORINATION BY THE S.A.W.S.
- ALL 8", 12" AND 16" PIPE SHALL BE P.V.C. C-900 CLASS 235 DR 18.

ETC., SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.

- RESPONSIBILITY OF THE CONTRACTOR TO SEQUENCE THE WORK | 3. ALL MAINS SHALL BE HYDROSTATICALLY TESTED BY THE CONTRACTOR, AS PROVIDED FOR IN THE SPECIAL CONDITIONS.
 - . THE WATER LINES WILL BE SET FROM THE STREET HUBS BEFORE THIS CONTRACT BEGINS. STREET CUT SHEETS WILL BE SUPPLIED TO THE CONTRACTOR. THERE SHOULD BE NO ADDITIONAL STAKES REQUIRED, AND I SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO INSPECT THE SITE AND VERIFY THAT ALL STAKES REQUIRED FOR HIS WORK ARE IN PLACE AT THE TIME THE CONSTRUCTION BEGINS. IF ANY STAKES ARE MISSING THE ENGINEER SHOULD BE NOTIFIED IMMEDIATELY. AFTER CONSTRUCTION BEGINS, ALL CONSTRUCTION STAKES, MARKS, ETC., SHALL BE CAREFULLY PRESERVED BY THE CONTRACTOR, AND IN CASE OF DESTRUCTION OR REMOVAL BY THE
 - THE CONTRACTOR SHALL FURNISH THE ENGINEER WITH ALL THE FINAL MEASUREMENTS, TAPS AND LENGTH OF SERVICE CONNECTIONS.

CONTRACTOR, HIS EMPLOYEE OR ANY OTHER MEANS, SUCH STAKES, MARKS,

- THE LOT CORNERS WILL BE SET BY THE ENGINEER FOR INSTALLATION OF ALL WATER SERVICES. THESE LOT CORNERS SHALL BE CAREFULLY PRESERVED BY THE CONTRACTOR SO THE METER BOXES CAN BE SET IN PHASE II. ANY LOT CORNER DESTROYED OR REMOVED BY THE CONTRACTOR, HIS EMPLOYEES, OR BY ANY OTHER MEANS SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.
- STREETS WILL HAVE BEEN EXCAVATED DOWN TO SUBGRADE AND THE PARKWAY WILL BE CUT DOWN TO TOP OF CURB BY THE STREET CONTRACTOR, PRIOR TO CONSTRUCTION OF THE WATER MAINS. IT WILL BE THE UTILITY CONTRACTOR'S RESPONSIBILITY TO PROVIDE A PAD FOR HIS EQUIPMENT.
- WATER METER BOXES IF APPLICABLE SHALL BE INSTALLED NINE FEET FROM FACE OF CURB TO CENTER OF THE METER BOX.
- ALL GARBAGE OR SPOIL MATERIAL FROM THIS WORK SHALL BE REMOVED FROM THE SITE BY THE CONTRACTOR, AT HIS EXPENSE.
- 10. FINAL CONNECTION TO THE EXISTING WATER MAIN SHALL NOT BE MADE UNTIL 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 INCLUDE FIRE HYDRANT, 6-INCH GATE VALVE AND 6-INCH VALVE BOX COMPLETE, ANCHOR BEND, AND ALL 6-INCH DI PIPE REQUIRED (DI PIPE REQUIRED SHALL INCLUDE ALL PIPE FROM THE TEE ON THE MAIN LINE TO THE FIRE HYDRANT).
- . WHEN SEWER LINES ARE INSTALLED IN THE VICINITY OF WATER MAINS, SUCH INSTALLATION SHALL BE IN STRICT ACCORDANCE WITH THE TEXAS NATURAL RESOURCE CONSERVATION COMMISSION "RULES AND REGULATIONS FOR PUBLIC WATER SYSTEMS" (1988 OR ANY REVISIONS THERETO).
- 13. A CLEAR SPACE SHALL BE PROVIDED AROUND ALL FIRE HYDRANTS. THIS AREA SHOULD HAVE A MINIMUM DIAMETER OF 3.0' AND BE CLEAN OF VERTICAL OBSTRUCTIONS, VALVES, AND METER BOXES.
- 9. 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.



3

DEVELOPER'S NAME: LENNAR HOMES OF TEXAS ADDRESS: 100 NE LOOP 410, STE 1155 CITY: SAN ANTONIO

NUMBER OF LOTS 197 SAWS JOB NO. 23-1145

DESIGNER

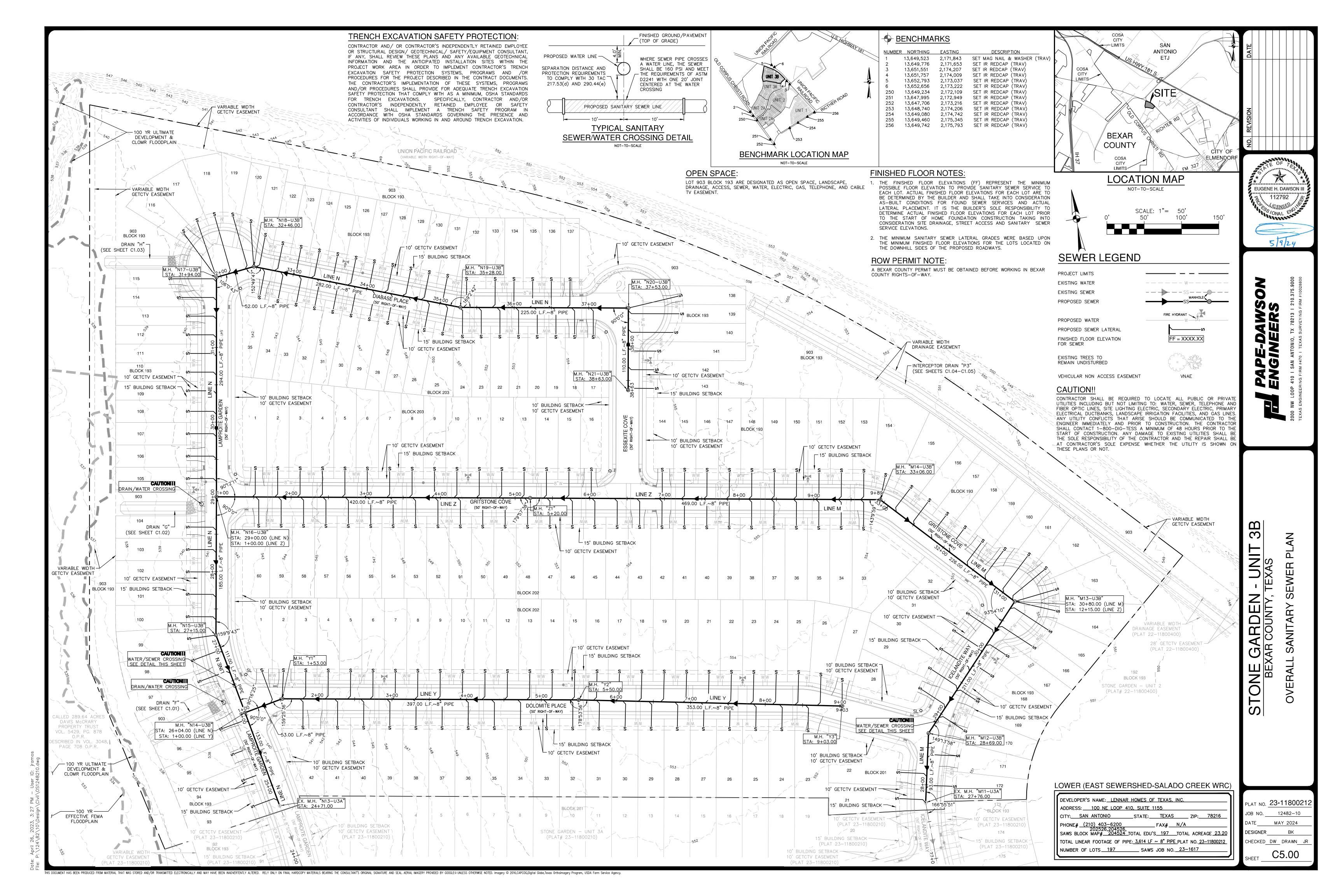
LAT NO. 23-1180021

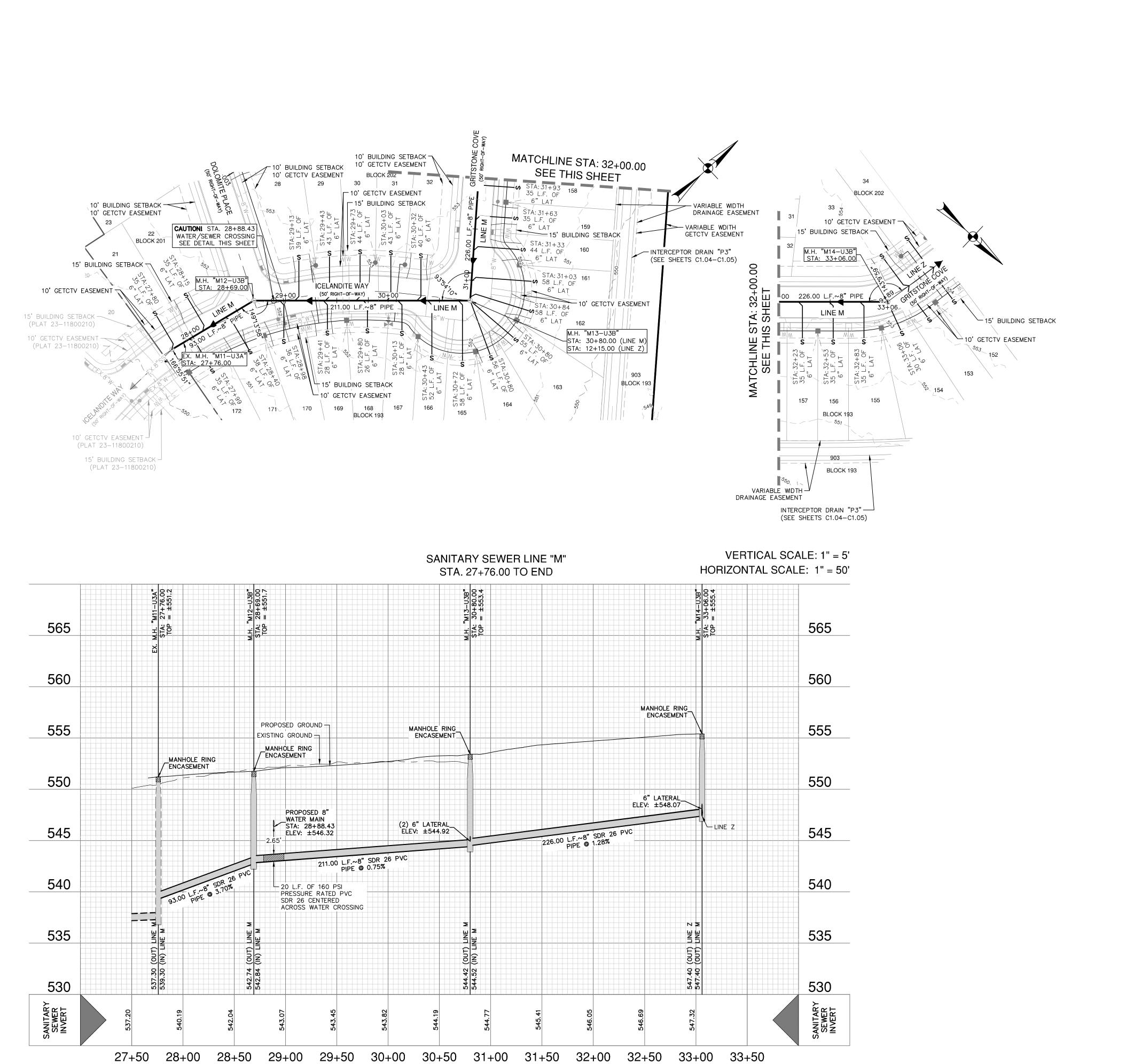
DATE FEBRUARY 2024

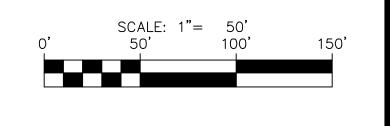
CHECKED DW DRAWN J

WATER (SAWS PRESSURE ZONE 750)

PHONE# (210) 403-6200 SAWS BLOCK MAP# 204524 TOTAL EDU'S 201 TOTAL ACREAGE 23.20 TOTAL LINEAR FOOTAGE OF PIPE: 4,076 L.F. ~ 8"PVC PLAT NO.23-11800212







FIRE HYDRANT >

FF = XXXX.XX

VNAE

SEWER LEGEND

PROJECT LIMITS EXISTING WATER EXISTING SEWER PROPOSED SEWER

PROPOSED WATER PROPOSED SEWER LATERAL

FINISHED FLOOR ELEVATION

EXISTING TREES TO REMAIN UNDISTURBED

FOR SEWER

VEHICULAR NON ACCESS EASEMENT LATERAL WITH VERTICAL STACK SEE PROFILE VIEW FOR LENGTH

EUGENE H. DAWSON III

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Y SEWER I (STA. 27+

FINISHED GROUND/PAVEMENT (TOP OF GRADE) PROPOSED WATER LINE -WHERE SEWER PIPE CROSSES A WATER LINE, THE SEWER SEPARATION DISTANCE AND SHALL BE 160 PSI AND MEET PROTECTION REQUIREMENTS THE REQUIREMENTS OF ASTM TO COMPLY WITH 30 TAC D2241 WITH ONE 20' JOINT CENTERED AT THE WATER 217.53(d) AND 290.44(e) CROSSING PROPOSED SANITARY SEWER LINE

TYPICAL SANITARY SEWER/WATER CROSSING DETAIL NOT-TO-SCALE

CAUTION!!

CONTRACTOR SHALL BE REQUIRED TO LOCATE ALL PUBLIC OR PRIVAT 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 E THE SOLE RESPONSIBILITY OF THE CONTRACTOR AND THE REPAIR SHALL E AT CONTRACTOR'S SOLE EXPENSE WHETHER THE UTILITY IS SHOWN (THESE PLANS OR NOT.

TRENCH EXCAVATION SAFETY PROTECTION:

CONTRACTOR AND/ OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYE OR STRUCTURAL DESIGN/ GEOTECHNICAL/ SAFETY/EQUIPMENT CONSULTANT, IF ANY, SHALL REVIEW THESE PLANS AND ANY AVAILABLE GEOTECHNICAL INFORMATION AND THE ANTICIPATED INSTALLATION SITES WITHIN THE PROJECT WORK AREA IN ORDER TO IMPLEMENT CONTRACTOR'S TRENCH EXCAVATION SAFETY PROTECTION SYSTEMS, PROGRAMS AND /C 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 STANDARD FOR TRENCH EXCAVATIONS. SPECIFICALLY, CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR SAFETY CONSULTANT SHALL IMPLEMENT A TRENCH SAFETY PROGRAM II ACCORDANCE WITH OSHA STANDARDS GOVERNING THE PRESENCE AND ACTIVITIES OF INDIVIDUALS WORKING IN AND AROUND TRENCH EXCAVATION. OPEN SPACE:

LOT 903 BLOCK 193 ARE DESIGNATED AS OPEN SPACE, LANDSCAPE, DRAINAGE, ACCESS, SEWER, WATER, ELECTRIC, GAS, TELEPHONE, AND CABLE

LOWER (EAST SEWERSHED-SALADO CREEK WRC)

DEVELOPER'S	S NAME: <u>LEN</u>	NAR HOMES O	F TEXAS.	INC.		
ADDRESS:	100 NE LOO	NAR HOMES OF P 410, SUITE	1155			
CITY: SAN	ANTONIO	STATE:_	TEXAS	<u> </u>	ZIP:	78216
SAWS BLOCK	202526,2045 MAP# 2045	0 226, 224 TOTAL EDU'	s 197	TOTAL	ACRE	AGE 23.20

NUMBER OF LOTS 197 SAWS JOB NO. 23-1617

TOTAL LINEAR FOOTAGE OF PIPE: 3,614 LF ~ 8" PIPE PLAT NO. 23-11800212

PLAT NO. 23-11800212 12482-10 MAY 2024 DESIGNER CHECKED DW DRAWN JF C5.01

SHEET



SEWER LEGEND

PROJECT LIMITS EXISTING WATER EXISTING SEWER

PROPOSED SEWER

PROPOSED WATER

EXISTING TREES TO

REMAIN UNDISTURBED

FOR SEWER

PROPOSED SEWER LATERAL

FINISHED FLOOR ELEVATION

FIRE HYDRANT

VEHICULAR NON ACCESS EASEMENT LATERAL WITH VERTICAL STACK SEE PROFILE VIEW FOR LENGTH

FF = XXXX.XX VNAE

EUGENE H. DAWSON III

(TOP OF GRADE) WHERE SEWER PIPE CROSSES A WATER LINE, THE SEWER SHALL BE 160 PSI AND MEET THE REQUIREMENTS OF ASTM D2241 WITH ONE 20' JOINT CENTERED AT THE WATER 3 SEWER/WATER CROSSING DETAIL

FINISHED GROUND/PAVEMENT

CAUTION!!

PROPOSED WATER LINE —

SEPARATION DISTANCE AND PROTECTION REQUIREMENTS

TO COMPLY WITH 30 TAC

217.53(d) AND 290.44(e)

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 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 E THE SOLE RESPONSIBILITY OF THE CONTRACTOR AND THE REPAIR SHALL E AT CONTRACTOR'S SOLE EXPENSE WHETHER THE UTILITY IS SHOWN O THESE PLANS OR NOT.

PROPOSED SANITARY SEWER LINE

TYPICAL SANITARY

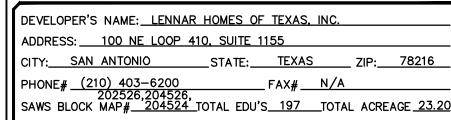
TRENCH EXCAVATION SAFETY PROTECTION:

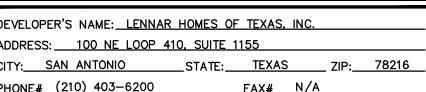
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OPEN SPACE:

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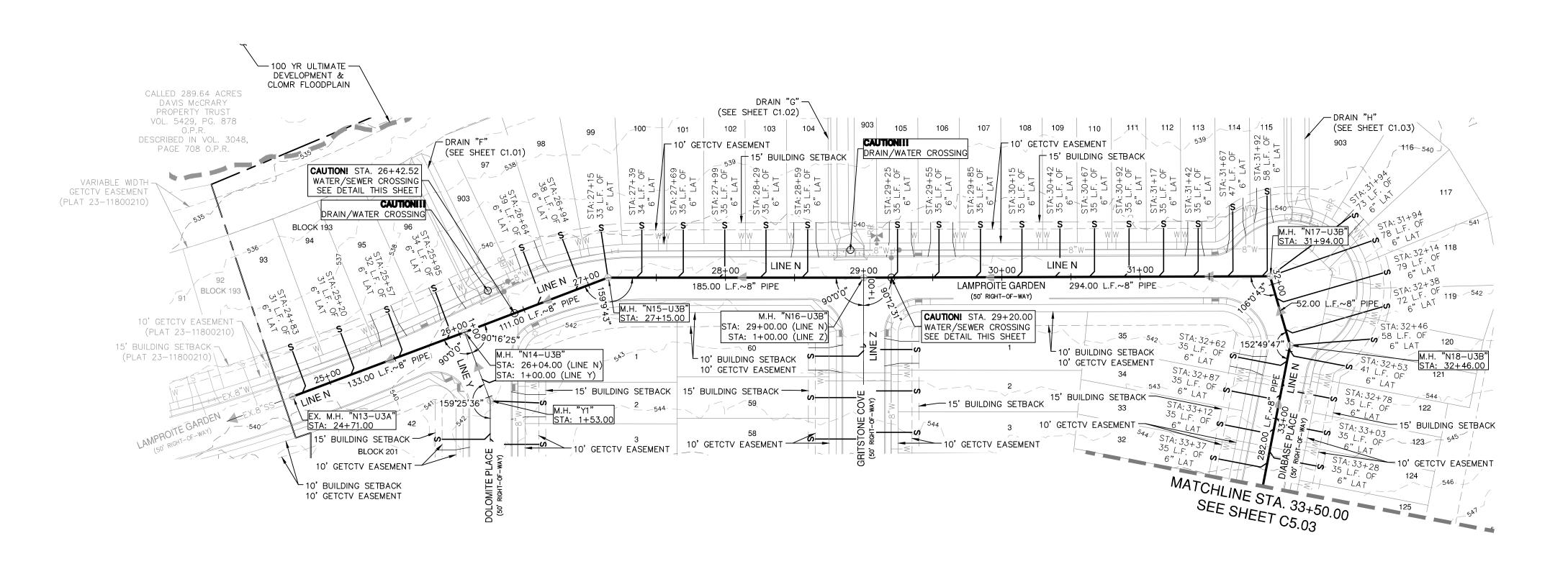
LOWER (EAST SEWERSHED-SALADO CREEK WRC)

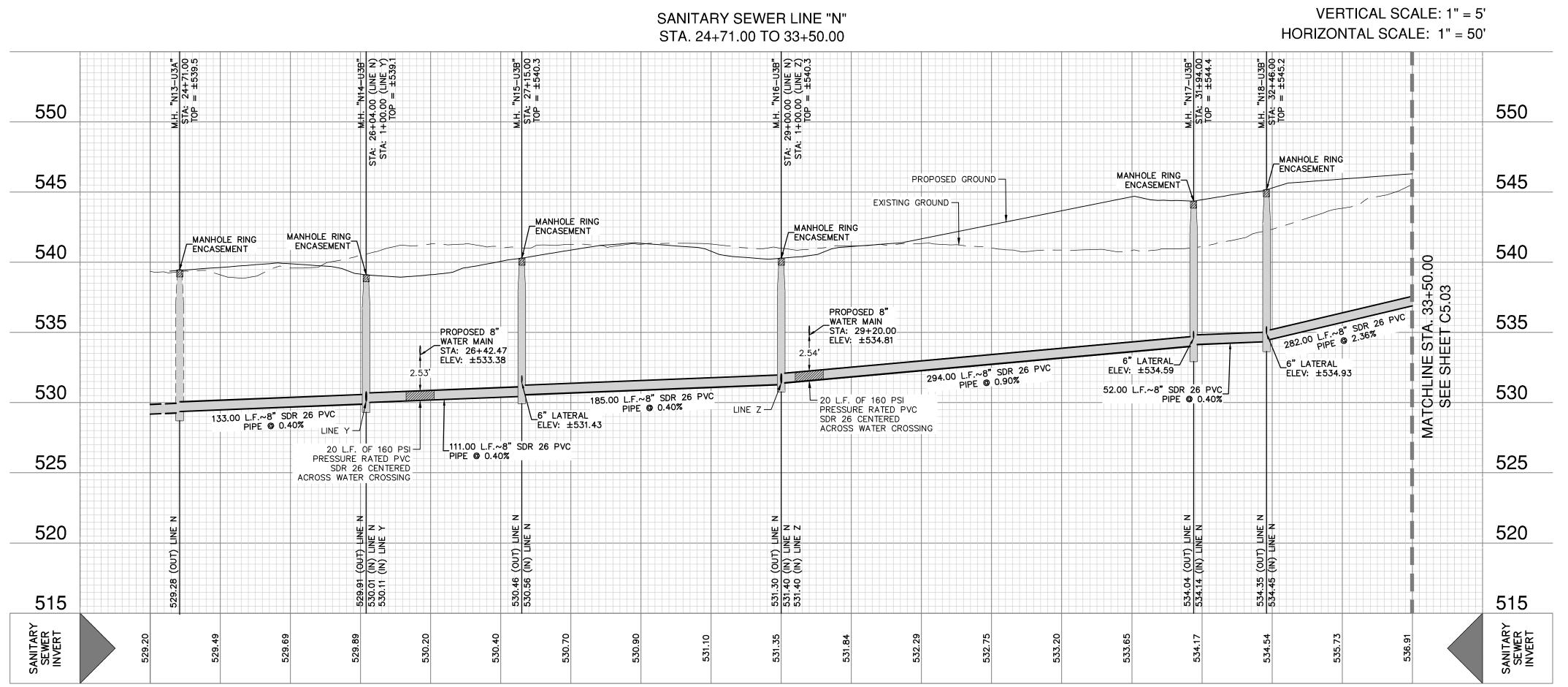




TOTAL LINEAR FOOTAGE OF PIPE: 3,614 LF ~ 8" PIPE PLAT NO. 23-11800212 NUMBER OF LOTS 197 SAWS JOB NO. 23-1617

24+50 25+00 25+50 26+00 26+50 27+00 27+50 28+00 28+50 29+00 29+50 30+00 30+50 31+00 31+50 32+00 32+50 33+00 33+50

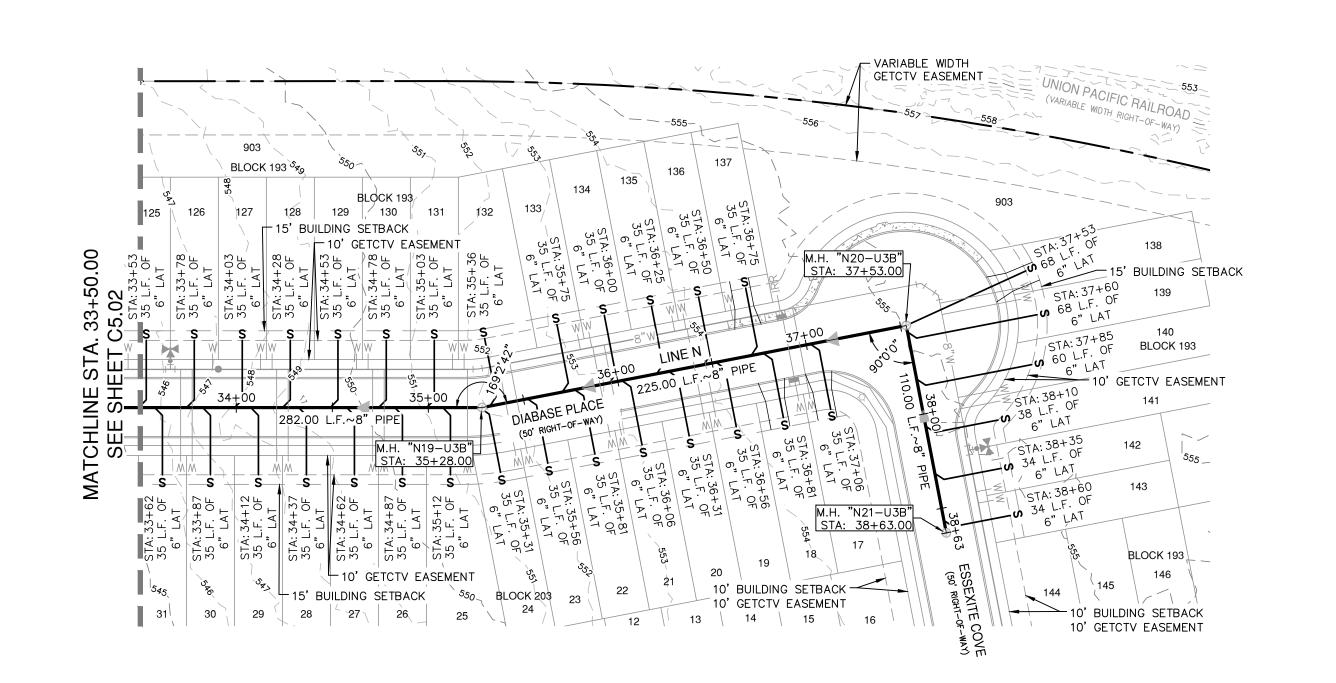


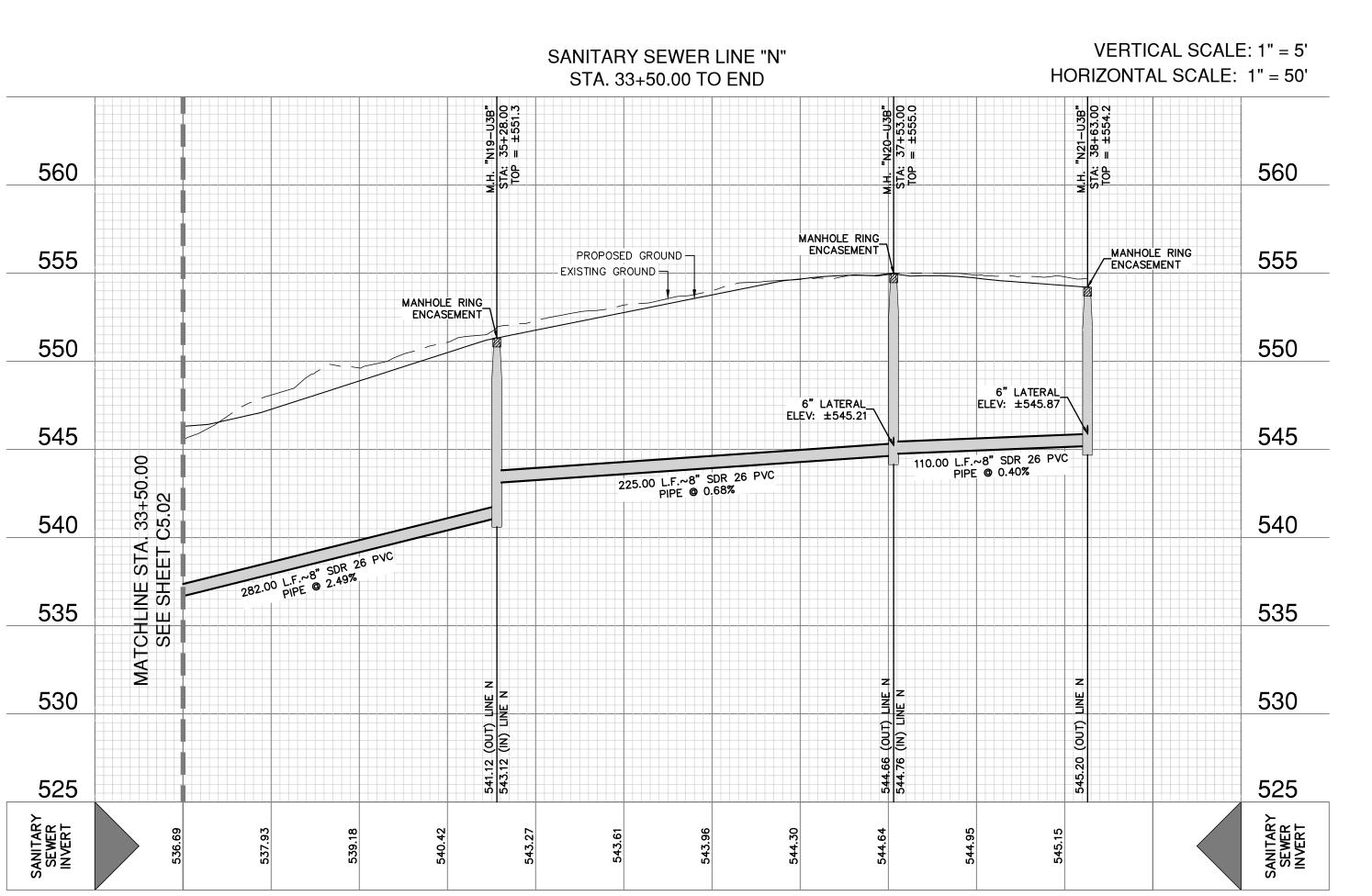


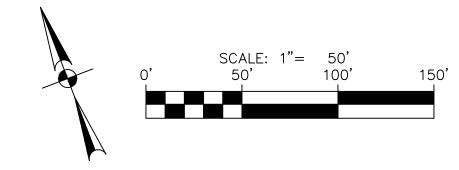
5 DOCUMENT HAS BEEN PRODUCED FROM MATERIAL THAT WAS STORED AND/OR TRANSMITTED ELECTRONICALLY AND MAY HAVE BEEN INADVERTENTLY ALTERED. RELY ONLY ON FINAL HARDCOPY MATERIALS BEARING THE CONSULTANT'S ORIGINAL SIGNATURE AND SEAL. AERIAL IMAGERY PROVIDED BY GOOGLE® UNLESS OTHERWISE NOTED. Imagery © 2016,CAPCOG,Digital Globe,Texas Orthoimagery Program, USDA Farm Service Agency.

No. 23-1180021 12482-10 MAY 2024 DESIGNER

CHECKED DW DRAWN JF







SEWER LEGEND

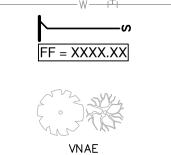
PROJECT LIMITS EXISTING WATER EXISTING SEWER

FOR SEWER

PROPOSED SEWER PROPOSED WATER PROPOSED SEWER LATERAL FINISHED FLOOR ELEVATION

EXISTING TREES TO REMAIN UNDISTURBED

VEHICULAR NON ACCESS EASEMENT LATERAL WITH VERTICAL STACK SEE PROFILE VIEW FOR LENGTH



FIRE HYDRANT

EUGENE H. DAWSON III

2/29/24

PROFIL

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FINISHED GROUND/PAVEMENT (TOP OF GRADE) PROPOSED WATER LINE — WHERE SEWER PIPE CROSSES A WATER LINE, THE SEWER SHALL BE 160 PSI AND MEET SEPARATION DISTANCE AND PROTECTION REQUIREMENTS THE REQUIREMENTS OF ASTM TO COMPLY WITH 30 TAC D2241 WITH ONE 20' JOINT CENTERED AT THE WATER 217.53(d) AND 290.44(e) CROSSING PROPOSED SANITARY SEWER LINE

TYPICAL SANITARY SEWER/WATER CROSSING DETAIL

CAUTION!!

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OPEN SPACE:

LOT 903 BLOCK 193 ARE DESIGNATED AS OPEN SPACE, LANDSCAPE, DRAINAGE, ACCESS, SEWER, WATER, ELECTRIC, GAS, TELEPHONE, AND CABLE

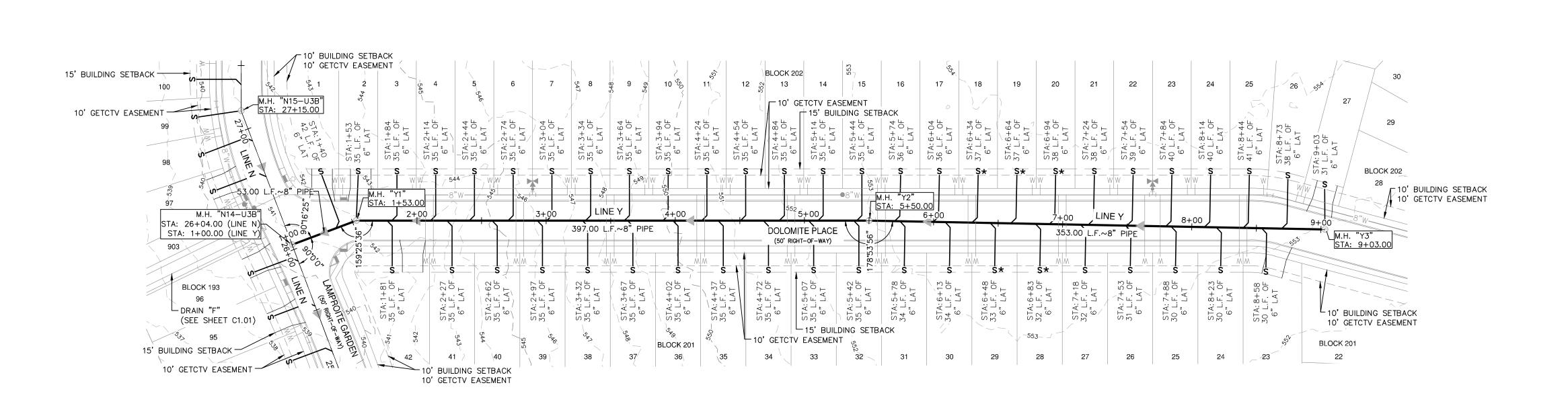
LOWER (EAST SEWERSHED-SALADO CREEK WRC)

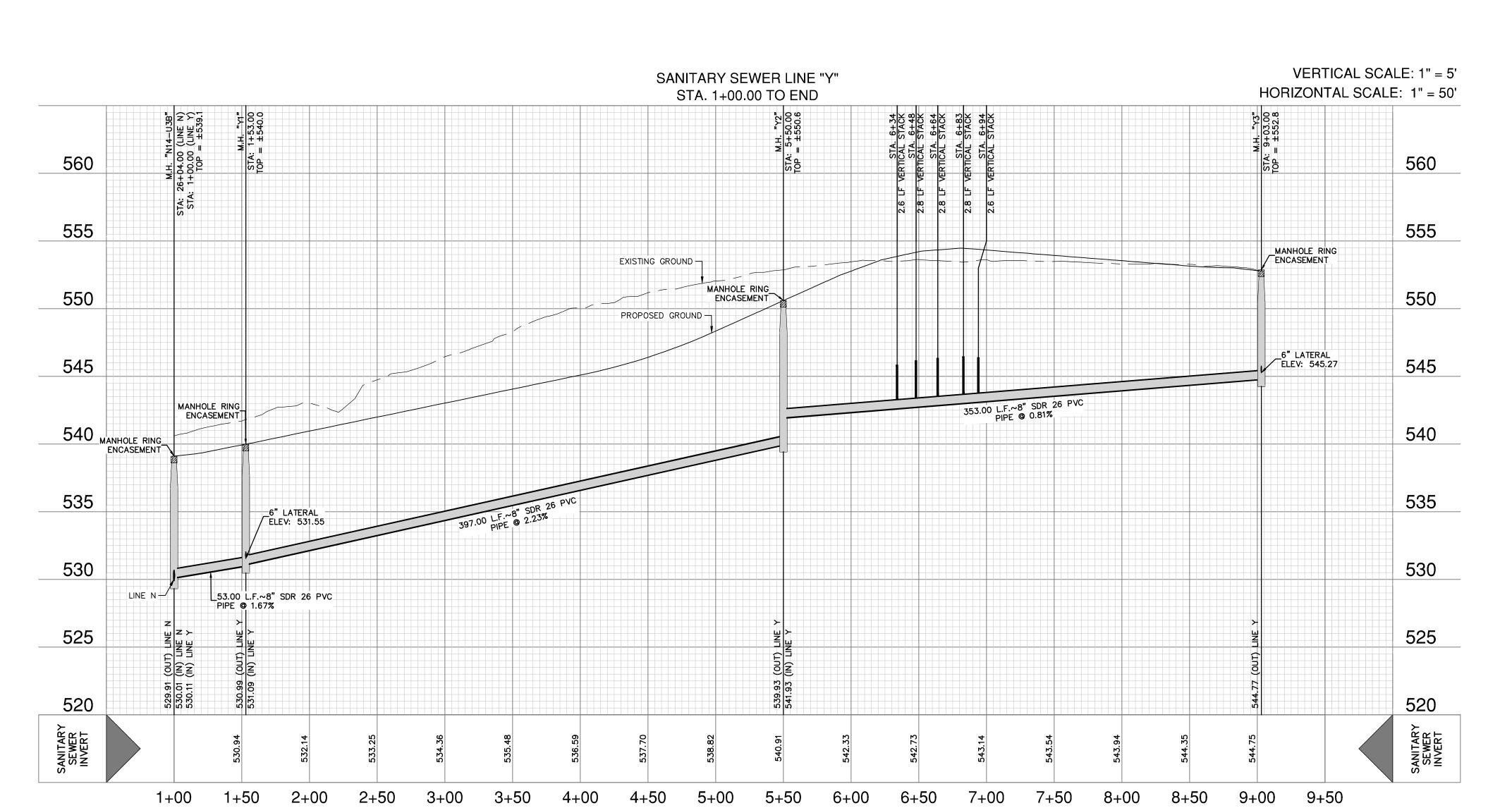
DEVELOPER'S NAME: LENNAR HOMES OF TEXAS, INC. ADDRESS: 100 NE LOOP 410, SUITE 1155 CITY: SAN ANTONIO STATE: TEXAS ZIP: 78216 PHONE# (210) 403-6200

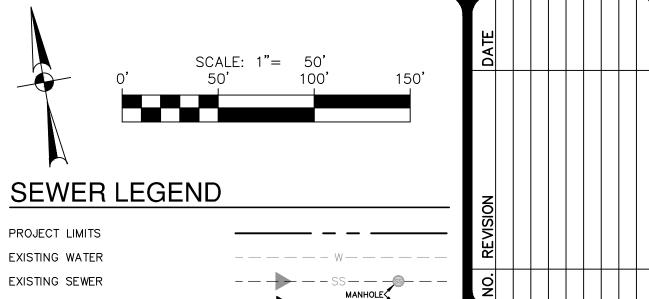
SAWS BLOCK MAP# 204524 TOTAL EDU'S 197 TOTAL ACREAGE 23.20 TOTAL LINEAR FOOTAGE OF PIPE: 3,614 LF ~ 8" PIPE PLAT NO. 23-11800212 NUMBER OF LOTS 197 SAWS JOB NO. 23-1617

PLAT NO. 23-11800212 12482-10 DATE FEBRUARY 2024 DESIGNER CHECKED DW DRAWN JF

33+50 34+00 34+50 35+00 35+50 36+00 36+50 37+00 37+50 38+00 38+50 39+00





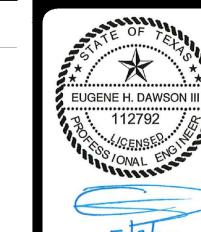


VNAE

PROPOSED SEWER FIRE HYDRANT PROPOSED WATER PROPOSED SEWER LATERAL FF = XXXX.XX FINISHED FLOOR ELEVATION FOR SEWER

EXISTING TREES TO REMAIN UNDISTURBED

VEHICULAR NON ACCESS EASEMENT LATERAL WITH VERTICAL STACK SEE PROFILE VIEW FOR LENGTH



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FINISHED GROUND/PAVEMENT (TOP OF GRADE) PROPOSED WATER LINE — WHERE SEWER PIPE CROSSES A WATER LINE, THE SEWER SHALL BE 160 PSI AND MEET SEPARATION DISTANCE AND PROTECTION REQUIREMENTS THE REQUIREMENTS OF ASTM D2241 WITH ONE 20' JOINT CENTERED AT THE WATER TO COMPLY WITH 30 TAC 217.53(d) AND 290.44(e) PROPOSED SANITARY SEWER LINE

TYPICAL SANITARY SEWER/WATER CROSSING DETAIL NOT-TO-SCALE

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 T 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 E 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.

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OPEN SPACE:

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LOWER (EAST SEWERSHED-SALADO CREEK WRC)

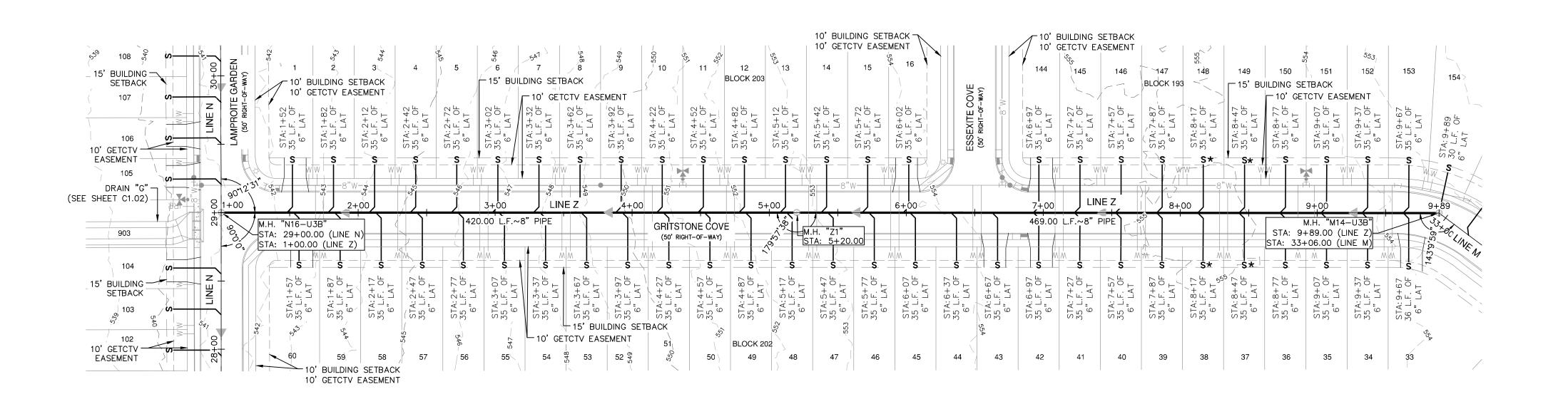
DEVELOPER'S NAME: LENNAR HOMES OF TEXAS, INC.
ADDRESS: 100 NE LOOP 410, SUITE 1155
CITY: SAN ANTONIO STATE: TEXAS ZIP: 78216
PHONE# (210) 403-6200 FAX# N/A
PHONE# (210) 403-6200 FAX# N/A 202526,204526, SAWS BLOCK MAP# 204524 TOTAL EDU'S 197 TOTAL ACREAGE 23.20

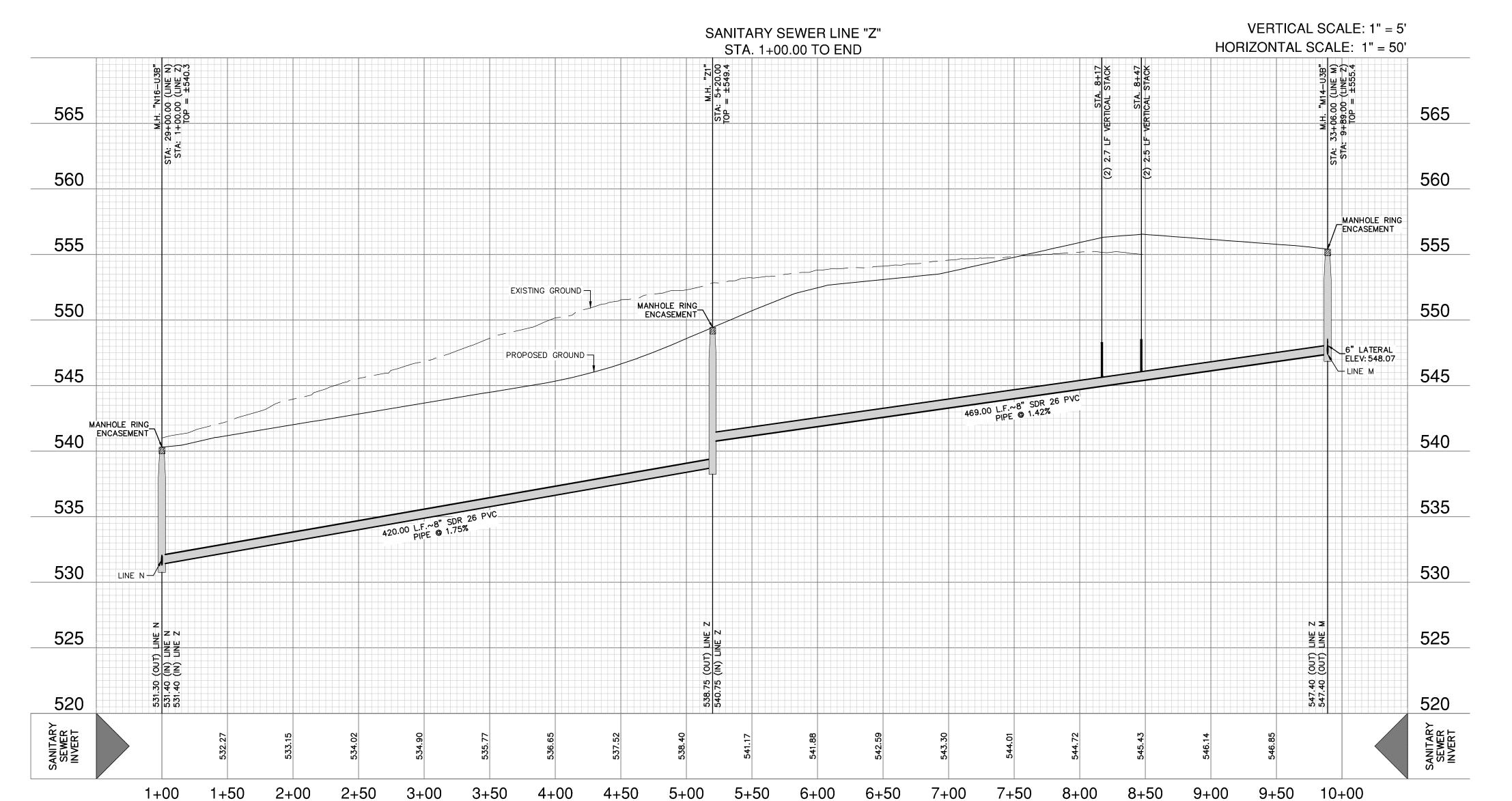
TOTAL LINEAR FOOTAGE OF PIPE: 3,614 LF ~ 8" PIPE PLAT NO. 23-11800212

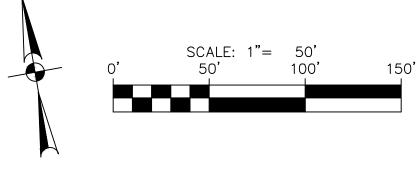
NUMBER OF LOTS 197 SAWS JOB NO. 23-1617

PLAT NO. 23-1180021 12482-10 MAY 2024 DESIGNER

CHECKED DW DRAWN JF







FIRE HYDRANT >

FF = XXXX.XX

VNAE

SEWER LEGEND

PROJECT LIMITS EXISTING WATER EXISTING SEWER PROPOSED SEWER

PROPOSED WATER PROPOSED SEWER LATERAL

FINISHED FLOOR ELEVATION FOR SEWER

EXISTING TREES TO REMAIN UNDISTURBED

VEHICULAR NON ACCESS EASEMENT LATERAL WITH VERTICAL STACK SEE PROFILE VIEW FOR LENGTH

EUGENE H. DAWSON III

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Z PLAN & TO END)

FINISHED GROUND/PAVEMENT (TOP OF GRADE) PROPOSED WATER LINE -WHERE SEWER PIPE CROSSES A WATER LINE, THE SEWER SEPARATION DISTANCE AND SHALL BE 160 PSI AND MEET PROTECTION REQUIREMENTS THE REQUIREMENTS OF ASTM TO COMPLY WITH 30 TAC D2241 WITH ONE 20' JOINT CENTERED AT THE WATER 217.53(d) AND 290.44(e) CROSSING PROPOSED SANITARY SEWER LINE TYPICAL SANITARY SEWER/WATER CROSSING DETAIL

NOT-TO-SCALE

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OPEN SPACE:

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LOWER (EAST SEWERSHED-SALADO CREEK WRC)

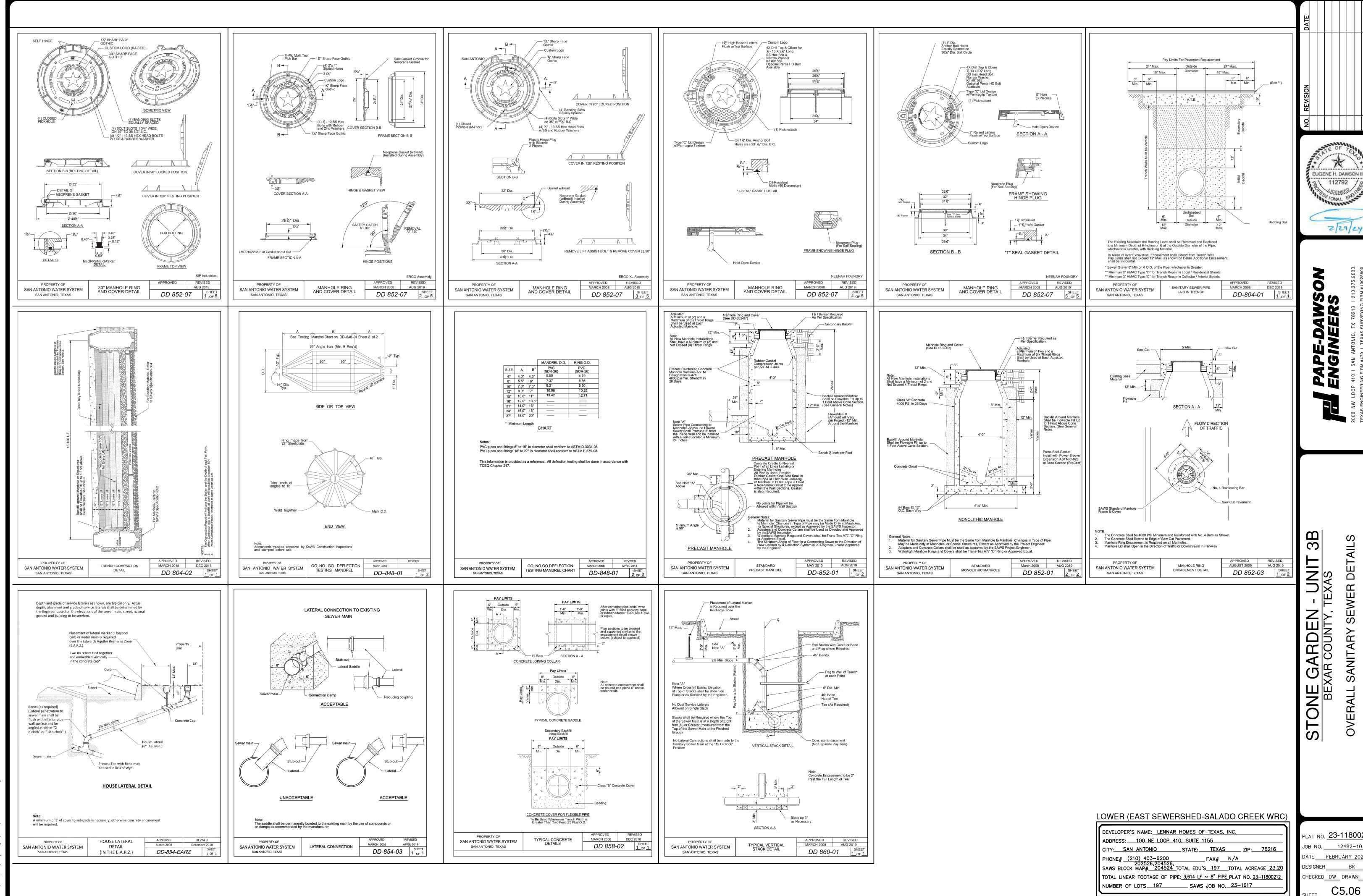
DEVELOPER'S NAME: LENNA			INC.		
ADDRESS: 100 NE LOOP	410, SUITE 1	155			
CITY: SAN ANTONIO	STATE:	TEXAS	;	ZIP:	78216
PHONE# <u>(210) 403-6200</u> 202526,204526		.FAX#	N/A		
202526,204526 SAWS BLOCK MAP# <u>204524</u>	, _TOTAL EDU'S			_ ACRE	AGE <u>23.20</u>
"					

TOTAL LINEAR FOOTAGE OF PIPE: 3,614 LF ~ 8" PIPE PLAT NO. 23-11800212

___ SAWS JOB NO. <u>23-1617</u>

PLAT NO. 23-1180021 12482-10 MAY 2024 DESIGNER

CHECKED_DW DRAWN J



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PLAT NO. 23-1180021 12482-10 DATE FEBRUARY 2024 DESIGNER CHECKED DW DRAWN J

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	SAWS GENE
	1. ALL MATERIALS CONTRACT SHALI COMPLY WITH T FOLLOWING AS A
	A.CURRENT TE CRITERIA FO CODE (TAC) WATER", TAC B.CURRENT THIRD HIGHWAYS, S
	WATER", TAG B. CURRENT T HIGHWAYS, S C. CURRENT "S WATER AND
	WATER AND D.CURRENT CI WORKS CON E.CURRENT CI (UECM).
	2. THE CONTRACTOR THEY OBTAIN
	CONSTRUCTION F SAWS CONSTRUCT ARRANGED A M REQUIREMENTS. COUNTER PERM REPLACEMENT AT
	3. THE CONTRACTO WEBSITE, HTTP:, NOTED WITHIN TH
	4. THE CONTRACTO INSPECTION DIVIS (210) 233-2973 AFFECTED HOME BEGINNING ANY
	5. LOCATION AND I THE PLANS AR DEPTHS MUST BE CONSTRUCTION. UTILITY SERVICE DURING CONSTRU
	6. THE CONTRACTOI AND DRAINAGE WHETHER SHOWN LOCATES REQUE FOLLOWING CONT
	- SAWS UTILIT - COSA DRAIN - COSA TRAFF
	• COSA TRAFF • TEXAS STAT
	7. THE CONTRACTO CURBS, STREETS ORIGINAL OR BE PROJECT'S CONS
	8. ALL WORK IN T COUNTY RIGHT— CONSTRUCTION S
	9. THE CONTRACTO GOVERNING MUNI
	10. THE CONTRACTO FLOOD PLAIN WIT
	11. HOLIDAY WORK: SAWS RECOGNIZE CONSTWORKREQ@
	WEEKEND WORK: CONSTRUCTION E REQUEST SHOULE
	ANY AND ALL SA APPROVAL WILL
	12. COMPACTION NO MEETING THE C PAYING FOR THE
	12. COMPACTION NO MEETING THE C PAYING FOR THE BE DONE AT ON SAWS INSPECTOR LIFT PER 400 LI AND FINALIZED E PROVIDING ALL N
	13. A COPY OF ALL INSPECTION DIVIS

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SAWS CONSTRUCTION NOTES (LAST REVISED JANUARY 2022)

ENERAL SECTION

- ALS AND CONSTRUCTION PROCEDURES WITHIN THE SCOPE OF THIS SHALL BE APPROVED BY THE SAN ANTONIO WATER SYSTEM (SAWS) AND H THE PLANS, SPECIFICATIONS, GENERAL CONDITIONS AND WITH THE
- TEXAS COMMISSION ON ENVIRONMENTAL QUALITY (TCEQ) DESIGN FOR DOMESTIC WASTEWATER SYSTEM", TEXAS ADMINISTRATIVE (TAC) TITLE 30 PART 1 CHAPTER 217 AND "PUBLIC DRINKING" TAC TITLE 30 PART 1 CHAPTER 290.
- TXDOT "STANDARD SPECIFICATIONS FOR CONSTRUCTION OF YS, STREETS AND DRAINAGE". "SAN ANTONIO WATER SYSTEM STANDARD SPECIFICATIONS FOR AND SANITARY SEWER CONSTRUCTION".
- CITY OF SAN ANTONIO "STANDARD SPECIFICATIONS FOR PUBLIC CONSTRUCTION".
- I CITY OF SAN ANTONIO "UTILITY EXCAVATION CRITERIA MANUAL"
- ACTOR SHALL NOT PROCEED WITH ANY PIPE INSTALLATION WORK UNTIL IN A COPY OF THE APPROVED COUNTER PERMIT OR GENERAL ON PERMIT (GCP) FROM THE CONSULTANT AND HAS BEEN NOTIFIED BY TRUCTION INSPECTION DIVISION TO PROCEED WITH THE WORK AND HAS MEETING WITH THE INSPECTOR AND CONSULTANT FOR THE WORK TS. WORK COMPLETED BY THE CONTRACTOR WITHOUT AN APPROVED PERMIT AND/OR A GCP WILL BE SUBJECT TO REMOVAL AND T AT THE EXPENSE OF THE CONTRACTORS AND/OR THE DEVELOPER.
- ACTOR SHALL OBTAIN THE SAWS STANDARD DETAILS FROM THE SAWS TTP://www.saws.org/business_center/specs. unless otherwise
- ACTOR IS TO MAKE ARRANGEMENTS WITH THE SAWS CONSTRUCTION 2973, ON NOTIFICATION PROCEDURES THAT WILL BE USED TO NOTIFY HOME RESIDENTS AND/OR PROPERTY OWNERS 48 HOURS PRIOR TO ANY WORK.
- ND DEPTH OF EXISTING UTILITIES AND SERVICE LATERALS SHOWN ON ARE UNDERSTOOD TO BE APPROXIMATE. ACTUAL LOCATIONS AND IT BE FIELD VERIFIED BY THE CONTRACTOR AT LEAST 1 WEEK PRIOR TO IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO LOCATE VICE LINES AS REQUIRED FOR CONSTRUCTION AND TO PROTECT THEM STRUCTION AT NO COST TO SAWS.
- ACTOR SHALL VERIFY THE EXACT LOCATION OF UNDERGROUND UTILITIES AGE STRUCTURES AT LEAST 1-2 WEEKS PRIOR TO CONSTRUCTION OWN ON PLANS OR NOT. PLEASE ALLOW UP TO 7 BUSINESS DAYS FOR EQUESTING PIPE LOCATION MARKERS ON SAWS FACILITIES. THE
 - CONTACT INFORMATION ARE SUPPLIED FOR VERIFICATION PURPOSES: ITILITY LOCATES: HTTP://WWW.SAWS.ORG/SERVICE/LOCATES
 - PRAINAGE (210) 207-0724 OR (210) 207-6026 RAFFIC SIGNAL OPERATIONS (210) 206-8480
 - RAFFIC SIGNAL DAMAGES (210) 207-3951 STATE WIDE ONE CALL LOCATOR 1-800-545-6005 OR 811
- ACTOR SHALL BE RESPONSIBLE FOR RESTORING EXISTING FENCES, EETS, DRIVEWAYS, SIDEWALKS, LANDSCAPING AND STRUCTURES TO ITS BETTER CONDITION IF DAMAGES ARE MADE AS A RESULT OF THE CONSTRUCTION.
- IN TEXAS DEPARTMENT OF TRANSPORTATION (TXDOT) AND/OR BEXAR SHT-OF-WAY SHALL BE DONE IN ACCORDANCE WITH RESPECTIVE ON SPECIFICATIONS AND PERMIT REQUIREMENTS.
- ACTOR SHALL COMPLY WITH CITY OF SAN ANTONIO OR OTHER MUNICIPALITY'S TREE ORDINANCES WHEN EXCAVATING NEAR TREES.
- ACTOR SHALL NOT PLACE ANY WASTE MATERIALS IN THE 100-YEAR I WITHOUT FIRST OBTAINING AN APPROVED FLOOD PLAIN PERMIT.
- RK: CONTRACTORS WILL NOT BE ALLOWED TO PERFORM SAWS WORK ON PROJECT SEWER NOTES GNIZED HOLIDAYS. REQUEST SHOULD BE SENT TO REQ@SAWS.ORG.

ORK: CONTRACTORS ARE REQUIRED TO NOTIFY THE SAWS INSPECTION N DEPARTMENT 48 HOURS IN ADVANCE TO REQUEST WEEKEND WORK. OULD BE SENT TO CONSTWORKREQ@SAWS.ORG.

SAWS UTILITY WORK INSTALLED WITHOUT HOLIDAY/WEEKEND VILL BE SUBJECT TO BE UNCOVERED FOR PROPER INSPECTION.

- NOTE (ITEM 804): THE CONTRACTOR SHALL BE RESPONSIBLE FOR COMPACTION RÉQUIREMENTS ON ALL TRENCH BACKFILL AND FOR THE TESTS PERFORMED BY A THIRD PARTY. COMPACTION TESTS WILL ONE LOCATION POINT RANDOMLY SELECTED, OR AS INDICATED BY THE CTOR AND/OR THE TEST ADMINISTRATOR, PER EACH 12-INCH LOOSE O LINEAR FEET AT A MINIMUM. THIS PROJECT WILL NOT BE ACCEPTED 'ED BY SAWS WITHOUT THIS REQUIREMENT BEING MET AND VERIFIED BY LL NECESSARY DOCUMENTED TEST RESULTS.
- 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

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

DECREE, INCLUDING LINE CLEANING AND TELEVISING THE AFFECTED

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

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

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 PRESSURÉ 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 REGARDLESS OF SIZE.

MANHOLE AND ALL PIPE TESTING (INCLUDING THE TV INSPECTION) MUST BE PERFORMED AND PASSED PRIOR TO FINAL FIELD ACCEPTANCE BY SAWS CONSTRUCTION INSPECTION DIVISION, AS PER THE SAWS SPECIFICATIONS FOR WATER AND SANITARY SEWER CONSTRUCTION.

8. ALL PVC PIPE OVER 14 FEET OF COVER SHALL BE EXTRA STRENGTH WITH MINIMUM PIPE STIFFNESS OF 115 PSI.

SEQUENCE THE WORK ACCORDINGLY.

- 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 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 C5.08
- 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
- 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
- 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. 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 BE THE CONTRACTOR'S RESPONSIBILITY TO REPAIR, AT HIS EXPENSE.
- . 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
- 12. MANHOLE OPENING INCREASED TO 30" AS PER TAC CHAPTER 217.55.
- 13. ALL SEWER PIPE LATERALS SHALL BE SDR 26 (CLASS 160) PVC PIPE.
- 14. IF THE GIVEN TOP OF MANHOLE ELEVATION DOES NOT AGREE ON ACTUAL GROUND SURFACE OR FINISH PAVEMENT, THE CONTRACTOR SHALL ADJUST ELEVATIONS SUCH THAT THE TOP OF MANHOLE SHALL BE 0.5' ABOVE EXISTING GROUND, OR FLUSH TO FINISH ASPHALT PAVEMENT.
- 15. ALL MANHOLES CONSTRUCTED OVER THE EDWARDS AQUIFER RECHARGE ZONE SHOULD BE WATERTIGHT.

LOWER (EAST SEWERSHED-SALADO CREEK WRC)

DEVELOPER'S NAME: LENNAR HOMES OF TEXAS, INC ADDRESS: 100 NE LOOP 410, SUITE 1155

CITY: SAN ANTONIO STATE: TEXAS ZIP: 78216 PHONE# (210) 403-6200

SAWS BLOCK MAP# 204524 TOTAL EDU'S 197 TOTAL ACREAGE 23.20 TOTAL LINEAR FOOTAGE OF PIPE: 3,614 LF \sim 8" PIPE PLAT NO. 23-11800212 NUMBER OF LOTS 197 SAWS JOB NO. 23-1617

PLAT NO. 23-11800212

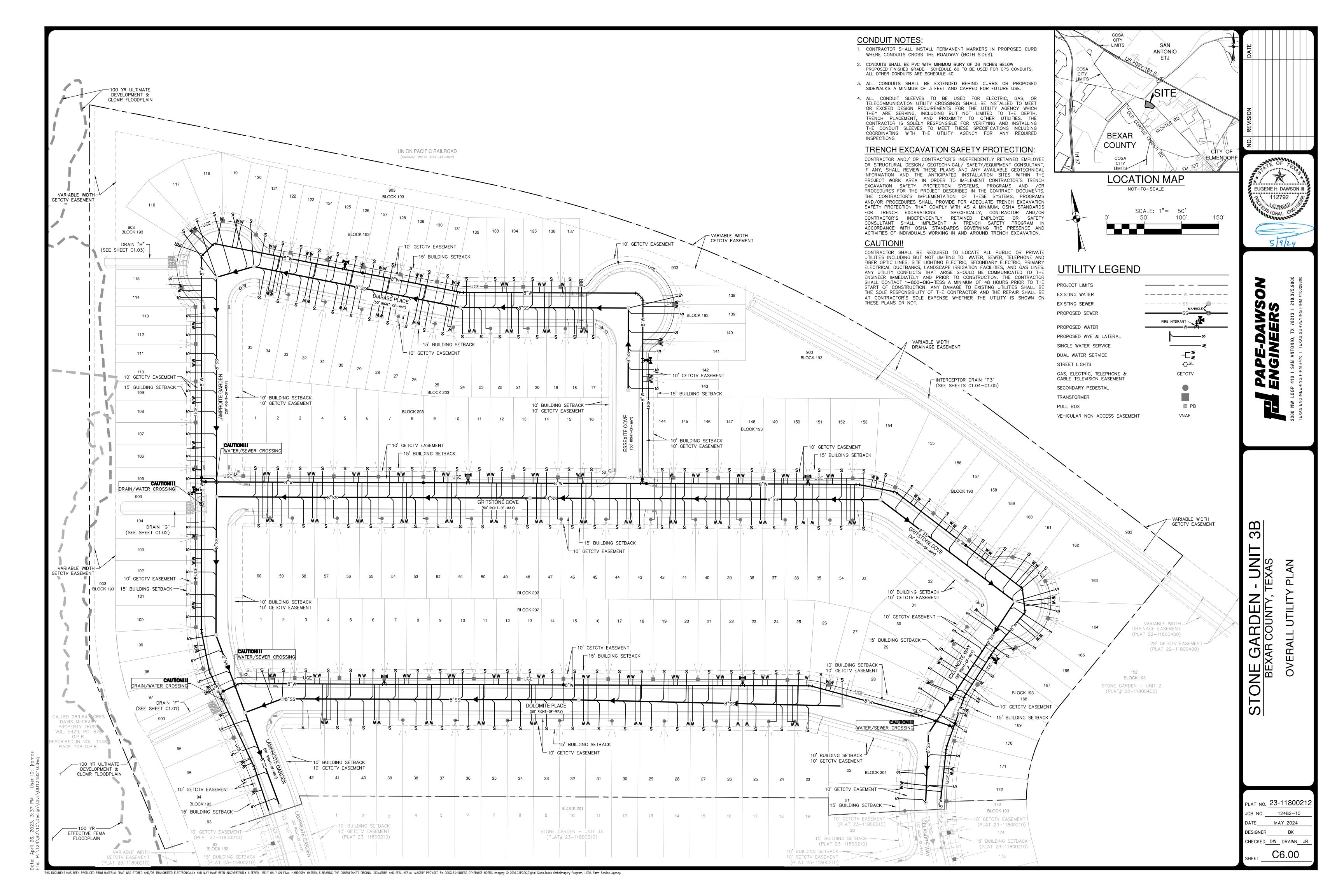
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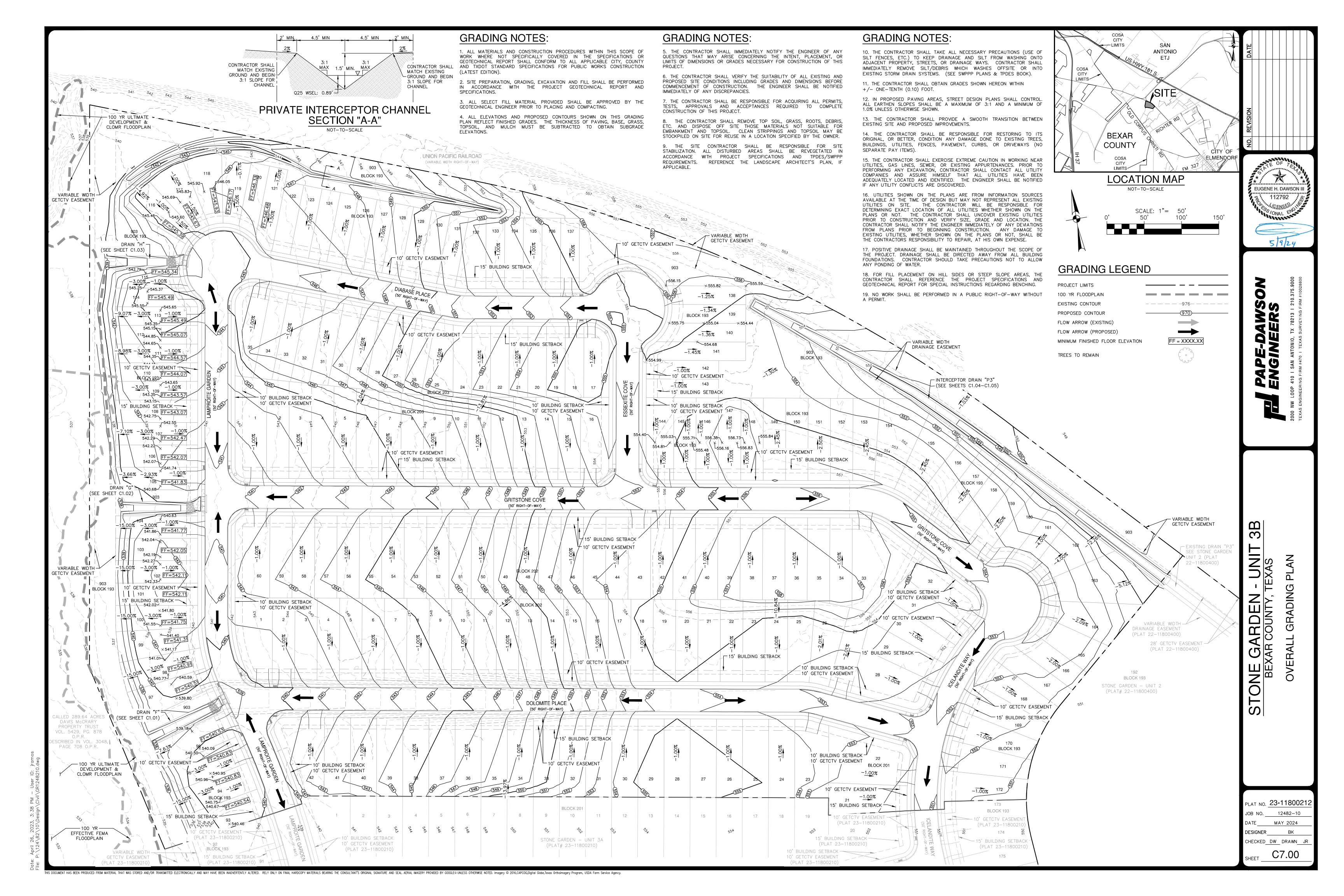
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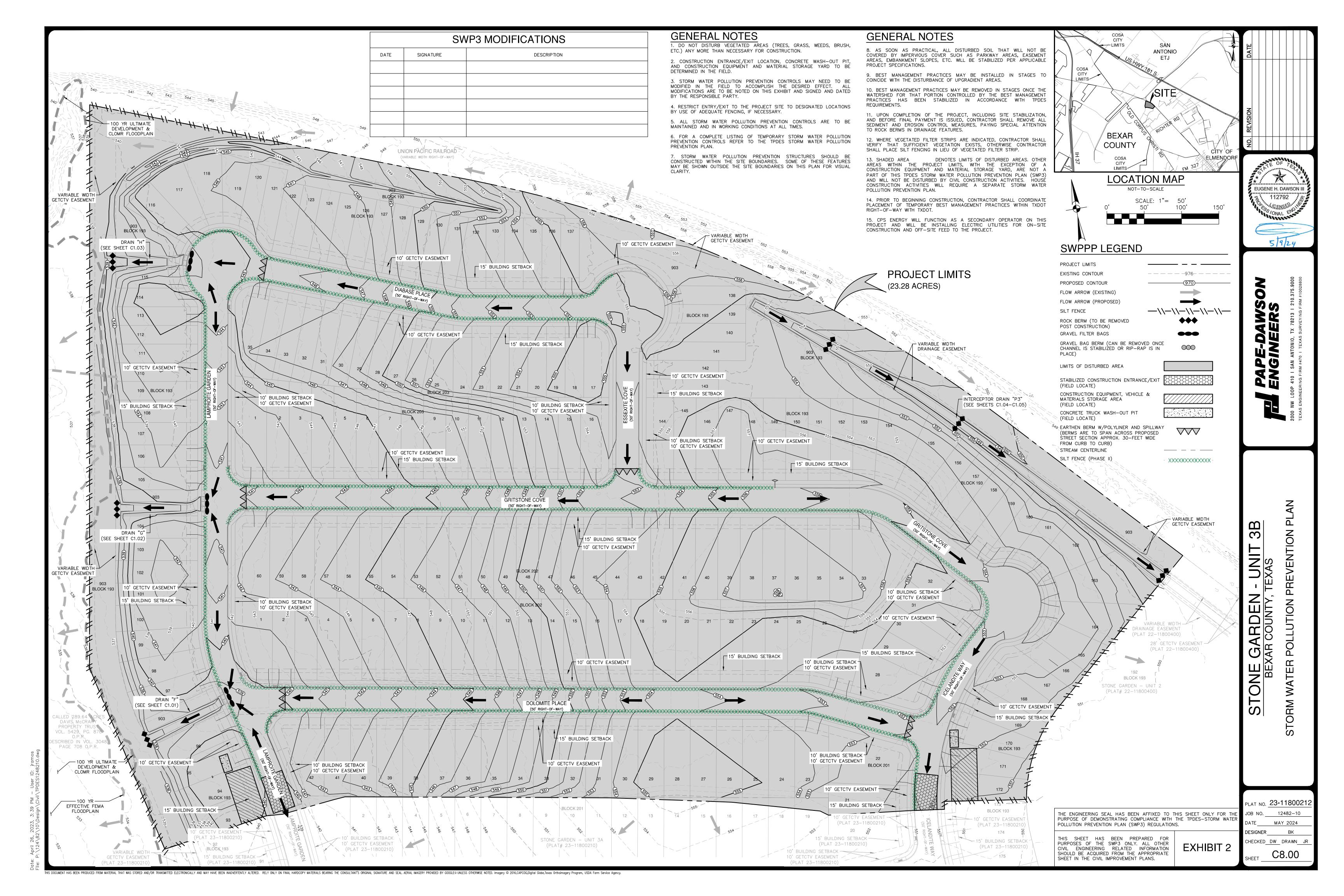
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SCHEMATIC OF TEMPORARY CONSTRUCTION ENTRANCE/EXIT

MATERIALS

8-INCHES.

1. THE AGGREGATE SHOULD CONSIST OF 4-INCH TO 8-INCH WASHED STONE OVER A STABLE FOUNDATION AS SPECIFIED IN THE PLAN. 2. THE AGGREGATE SHOULD BE PLACED WITH A MINIMUM THICKNESS OF

3. THE GEOTEXTILE FABRIC SHOULD BE DESIGNED SPECIFICALLY FOR USE AS A SOIL FILTRATION MEDIA WITH AN APPROXIMATE WEIGHT OF 6 OZ/YD2, A MULLEN BURST RATING OF 140 LB/IN2, AND AN EQUIVALENT OPENING SIZE GREATER THAN A NUMBER 50 SIEVE.

4. IF A WASHING FACILITY IS REQUIRED, A LEVEL AREA WITH A MINIMUM OF 4-INCH DIAMETER WASHED STONE OR COMMERCIAL ROCK SHOULD BE INCLUDED IN THE PLANS. DIVERT WASTEWATER TO A SEDIMENT TRAP OF

INSTALLATION

1. AVOID CURVES ON PUBLIC ROADS AND STEEP SLOPES. REMOVE VEGETATION AND OTHER OBJECTIONABLE MATERIAL FROM THE FOUNDATION AREA. GRADE CROWN FOUNDATION FOR POSITIVE DRAINAGE.

2. THE MINIMUM WIDTH OF THE ENTRANCE/EXIT SHOULD BE 12 FEET OR THE FULL WIDTH OF EXIT ROADWAY, WHICHEVER IS GREATER

3. THE CONSTRUCTION ENTRANCE SHOULD BE AT LEAST 50 FEET LONG. 4. IF THE SLOPE TOWARD THE ROAD EXCEEDS 2%, CONSTRUCT A RIDGE 6-INCHES TO 8-INCHES HIGH WITH 3:1 (H:V) SIDE SLOPES, ACROSS THE

FOUNDATION APPROXIMATELY 15 FEET FROM THE ENTRANCE TO DIVERT RUNOFF AWAY FROM THE PUBLIC ROAD. 5. PLACE GEOTEXTILE FABRIC AND GRADE FOUNDATION TO IMPROVE STABILITY,

ESPECIALLY WHERE WET CONDITIONS ARE ANTICIPATED.

6. PLACE STONE TO DIMENSIONS AND GRADE SHOWN ON PLANS. LEAVE SURFACE SMOOTH AND SLOPE FOR DRAINAGE.

7. DIVERT ALL SURFACE RUNOFF AND DRAINAGE FROM THE STONE PAD TO A SEDIMENT TRAP OR BASIN.

8. INSTALL PIPE UNDER PAD AS NEEDED TO MAINTAIN PROPER PUBLIC ROAD

SECTION "A-A" OF A CONSTRUCTION ENTRANCE/EXIT

GEOTEXTILE FABRIC T

STABILIZE FOUNDATION

COMMON TROUBLE POINTS 1. INADEQUATE RUNOFF CONTROL-SEDIMENT WASHES ONTO PUBLIC ROAD.

. STONE TOO SMALL OR GEOTEXTILE FABRIC ABSENT, RESULTS IN MUDDY CONDITION AS STONE IS PRESSED INTO SOIL.

5. PAD TOO SHORT FOR HEAVY CONSTRUCTION TRAFFIC-EXTEND PAD BEYOND THE MINIMUM 50-FOOT LENGTH AS NECESSARY. 4. PAD NOT FLARED SUFFICIENTLY AT ROAD SURFACE, RESULTS IN MUD BEING

TRACKED ON TO ROAD AND POSSIBLE DAMAGE TO ROAD. 5. UNSTABLE FOUNDATION - USE GEOTEXTILE FABRIC UNDER PAD AND/OR IMPROVE FOUNDATION DRAINAGE.

INSPECTION AND MAINTENANCE GUIDELINES

THE ENTRANCE SHOULD BE MAINTAINED IN A CONDITION, WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT.

2. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHTS-OF-WAY SHOULD BE REMOVED IMMEDIATELY BY CONTRACTOR. 3. WHEN NECESSARY, WHEELS SHOULD BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTRANCE ONTO PUBLIC RIGHT-OF-WAY.

4. WHEN WASHING IS REQUIRED, IT SHOULD BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE THAT DRAINS INTO AN APPROVED SEDIMENT TRAP OR SEDIMENT BASIN

5. ALL SEDIMENT SHOULD BE PREVENTED FROM ENTERING ANY STORM DRAIN, DITCH OR WATER COURSE BY USING APPROVED METHODS.

CORRECT

INCORRECT

SOD INSTALLATION

USE PEGS OR STAPLES TO FASTEN SOD

FIRMLY - AT THE ENDS OF STRIPS AND

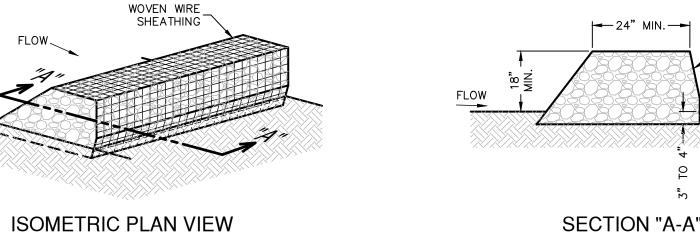
IN THE CENTER, OR EVERY 3-4 FEET IF

MOW. DRIVE PEGS OR STAPLES FLUSH

THE STRIPS ARE LONG. WHEN READY TO

STAPLE

AT ANY TIME.



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.

INSPECTION AND MAINTENANCE GUIDELINES I. INSPECTION SHOULD BE MADE WEEKLY BY THE RESPONSIBLE PARTY. FOR

EROSION AND SEDIMENT CONTROL MEASURES FARTHER UP THE WATERSHED.

INSTALLATIONS IN STREAMBEDS, ADDITIONAL DAILY INSPECTIONS SHOULD BE

3. REPAIR ANY LOOSE WIRE SHEATHING.

WILL NOT CAUSE ANY ADDITIONAL SILTATION.

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

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

MATERIALS

SHEATHING HAVING MAXIMUM OPENING OF 1 INCH AND A MINIMUM WIRE DIAMETER OF 20 GAUGE GALVANIZED AND SHOULD BE SECURED WITH SHOAT

USED, EXCEPT IN AREAS WHERE HIGH VELOCITIES OR LARGE VOLUMES OF FLOW ARE EXPECTED, WHERE 5-INCH TO 8-INCH DIAMETER ROCKS MAY BE

INSTALLATION

THE SHEATHING SHOULD BE 20 GAUGE WOVEN WIRE MESH WITH 1 INCH

BEING 2:1 (H: V) OR FLATTER.

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,

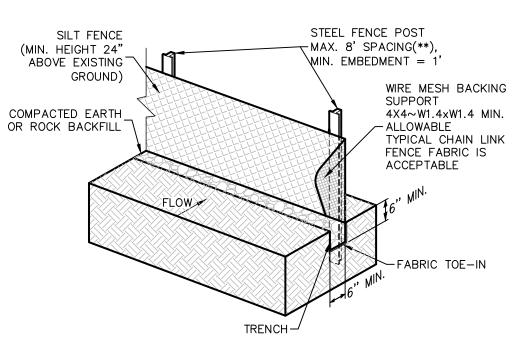
6. THE ENDS OF THE BERM SHOULD BE TIED INTO EXISTING UPSLOPE GRADE AND THE BERM SHOULD BE BURIED IN A TRENCH APPROXIMATELY 3 TO 4 INCHES DEEP TO PREVENT FAILURE OF THE CONTROL.

1. INSUFFICIENT BERM HEIGHT OR LENGTH (RUNOFF QUICKLY ESCAPES OVER

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

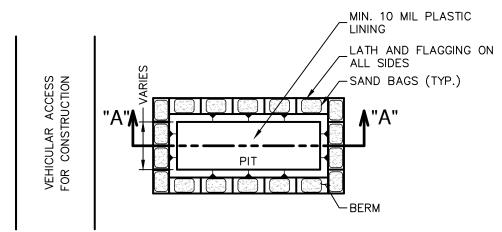
ROCK BERM DETAIL

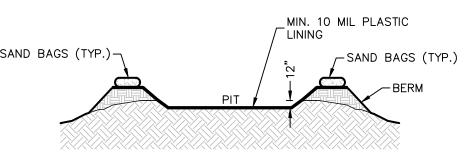
NOT-TO-SCALE



AND SPACED NOT MORE THAN 8 FEET OF THE MAXIMUM SPACING SHOULD BE 6 FEET. (RG-348, SECTION 1.4.3)

THE REMAINING DRAINAGE AREA HAS BEEN PROPERLY STABILIZED.





SIZE DEPENDING ON EXPECTED FREQUENCY OF USE. WASHOUT PIT SHALL BE LOCATED IN AN AREA EASILY ACCESSIBLE TO CONSTRUCTION TRAFFIC. FROM STORM WATER RUNOFF.

STORM DRAINS, OPEN DITCHES OR WATER BODIES. . TEMPORARY CONCRETE WASHOUT FACILITY SHOULD BE CONSTRUCTED WITH SUFFICIENT QUANTITY AND VOLUME TO CONTAIN ALL LIQUID AND CONCRETE WASTE GENERATED BY WASHOUT OPERATIONS.

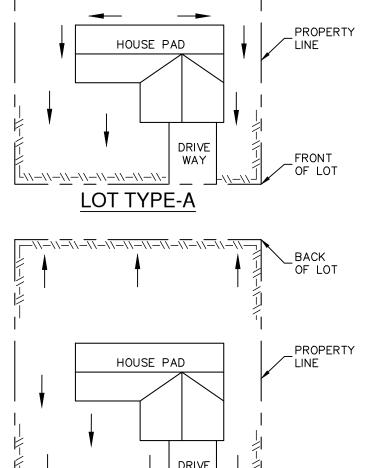
LOCATE WASHOUT AREA AT LEAST 50 FEET FROM SENSITIVE FEATURES,

PLASTIC LINING MATERIAL SHOULD BE A MINIMUM OF 10 MIL IN POLYETHYLENE SHEETING AND SHOULD BE FREE OF HOLES, TEARS, OR OTHER DEFECTS THAT COMPROMISE THE IMPERMEABILITY OF THE MATERIAL.

REQUIRED FOR THE WORK, THE HARDENED CONCRETE SHOULD BE REMOVED AND DISPOSED OF. MATERIALS USED TO CONSTRUCT TEMPORARY CONCRETE WASHOUT FACILITIES SHOULD BE REMOVED FROM THE SITE OF THE WORK AND DISPOSED

HOLES, DEPRESSIONS OR OTHER GROUND DISTURBANCES CAUSED BY THE REMOVAL OF THE TEMPORARY CONCRETE WASHOUT FACILITIES SHOULD BE BACKFILLED AND REPAIRED.

PIT DETAIL



WAY

WAY

LOT TYPE-B

HOUSE PAD

2/29/24

EUGENE H. DAWSON

PROPERT

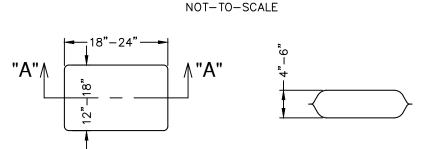
BACK

OF LOT

LOT TYPE-C NOTE: SILT FENCE TO BE INSTALLED PER THESE DETAILS AND LOCATED ON THE DOWNGRADIENT SIDE OF EACH LOT LINE OR LIMITS OF CLEARING AS GENERALL'S

LEGENI -\\-\\- SILT FENCE ■ DRAINAGE FLOW

SHOWN ON THE OVERALL SITE PLAN. TYPICAL HOUSE LOT LAYOUTS



SECTION "A-A"

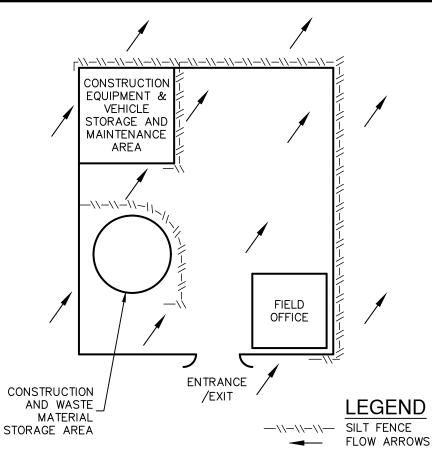
POLYETHYLENE OR POLYAMIDE WOVEN FABRIC, MIN. UNIT WEIGHT OF 4 DUNCES/SY, HAVE A MULLEN BURST STRENGTH EXCEEDING 300 PSI AND JLTRAVIOLET STABILITY EXCEEDING 70%. THE FILTER BAG SHALL BE FILLED WITH CLEAN, MEDIUM WASHED PEA

GRAVEL TO COARSE GRAVEL (0.31 TO 0.75 INCH DIAMETER). S. SAND SHALL <u>NOT</u> BE USED TO FILL THE FILTER BAGS.

THE FILTER BAG MATERIAL SHALL BE MADE OF POLYPROPYLENE,

GRAVEL FILTER BAG DETAIL

NOT-TO-SCALE



CONSTRUCTION STAGING AREA

NOT-TO-SCALE

THE ENGINEERING SEAL HAS BEEN AFFIXED TO THIS SHEET ONLY FOR THE PURPOSE OF DEMONSTRATING COMPLIANCE WITH THE TPDES-STORM WATER POLLUTION PREVENTION PLAN (SWP3) REGULATIONS.

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.

1. SOD SHOULD BE MACHINE CUT AT A UNIFORM SOIL THICKNESS OF 3/4" INCH (± 1/4" INCH) AT THE TIME OF CUTTING. THIS THICKNESS SHOULD EXCLUDE SHOOT GROWTH AND THATCH.

STANDARD SIZE SECTIONS OF SOD SHOULD BE STRONG ENOUGH TO SUPPORT THEIR OWN WEIGHT AND RETAIN THEIR SIZE AND SHAPE WHEN

SUSPENDED FROM A FIRM GRASP ON ONE END OF THE SECTION. 4. SOD SHOULD BE HARVESTED, DELIVERED, AND INSTALLED WITHIN A PERIOD

ROOTS, BRUSH, WIRE, GRADE STAKES AND OTHER OBJECTS THAT WOULD ROLLED OR TAMPED TO PROVIDE FIRM CONTACT BETWEEN ROOTS AND SOIL. INTERFERE WITH PLANTING, FERTILIZING OR MAINTENANCE OPERATIONS.

DETERMINED BY A SOIL TESTING LABORATORY OR REGIONAL RECOMMENDATIONS CAN BE MADE BY COUNTY AGRICULTURAL EXTENSION AGENTS. FERTILIZEF SHOULD BE WORKED INTO THE SOIL TO A DEPTH OF 3 INCHES WITH A DISC SPRINGTOOTH HARROW OR OTHER SUITABLE EQUIPMENT. ON SLOPING LAND, THE FINAL HARROWING OR DISCING OPERATION SHOULD BE ON THE CONTOUR.

INSTALLATION IN CHANNELS

TIGHTLY (SEE FIGURE ABOVE).

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

WITH NETTING. USE STAPLES.

2. DURING PERIODS OF HIGH TEMPERATURE, THE SOIL SHOULD BE LIGHTLY IRRIGATED IMMEDIATELY PRIOR TO LAYING THE SOD, TO COOL THE SOIL AND REDUCE ROOT BURNING AND DIEBACK.

SUBSEQUENT ROWS PLACED PARALLEL TO AND BUTTING TIGHTLY AGAINST EACH OTHER. LATERAL JOINTS SHOULD BE STAGGERED TO PROMOTE MORE UNIFORM GROWTH AND STRENGTH. CARE SHOULD BE EXERCISED TO ENSURE THAT SOD IS NOT STRETCHED OR OVERLAPPED AND THAT ALL JOINTS ARE BUTTED TIGHT IN ORDER TO PREVENT VOIDS WHICH WOULD CAUSE DRYING OF THE ROOTS

PERPENDICULAR TO THE SLOPE (ON CONTOUR).

THE UNDERSIDE OF THE SOD PAD AND THE SOIL 4 INCHES BELOW THE SOD IS THOROUGHLY WET. UNTIL SUCH TIME A GOOD ROOT SYSTEM BECOMES DEVELOPED, IN THE

OFTEN AS NECESSARY TO MAINTAIN MOIST SOIL TO A DEPTH OF AT LEAST 4

LEAF SHOULD BE REMOVED AT ANY ONE CUTTING.

INSPECTION AND MAINTENANCE GUIDELINES SHOULD BE INSPECTED WEEKLY AND AFTER EACH RAIN EVENT TO LOCATE AND REPAIR ANY DAMAGE.

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

SOD INSTALLATION DETAIL

NOT-TO-SCALE

IN CRITICAL AREAS, SECURE SOD

1. ROLL SOD IMMEDIATELY TO ACHIEVE FIRM CONTACT WITH THE

STABILIZED CONSTRUCTION ENTRANCE/EXIT DETAIL

NOT-TO-SCALE

APPEARANCE OF GOOD SOD

SHOOTS OR GRASS BLADES.

GRASS SHOULD BE GREEN AND

- THATCH- GRASS CLIPPINGS AND

ROOT ZONE - SOIL AND ROOTS.

DEAD LEAVES, UP TO 1/2" THICK.

SHOULD BE 1/2"-3/4" THICK, WITH

DENSE ROOT MAT FOR STRENGTH.

HEALTHY: MOWED AT A 2"-3"

CUTTING HEIGHT

3. MOW WHEN THE SOD IS ESTABLISHED - IN 2-3 WEEKS. SET THE MOWER HIGH (2"-3").

2. WATER TO A DEPTH OF 4" AS NEEDED. WATER WELL AS SOON AS THE SOD IS LAID.

LAY SOD IN A STAGGERED PATTERN. BUTT

LAY SOD ACROSS THE DIRECTION OF FLOW

2. PIECES OF SOD SHOULD BE CUT TO THE SUPPLIER'S STANDARD WIDTH AND LENGTH, WITH A MAXIMUM ALLOWABLE DEVIATION IN ANY DIMENSION OF 5%. TORN OR UNEVEN PADS SHOULD NOT BE ACCEPTABLE.

. PRIOR TO SOIL PREPARATION, AREAS TO BE SODDED SHOULD BE BROUGHT TO FINAL GRADE IN ACCORDANCE WITH THE APPROVED PLAN.

FERTILIZE ACCORDING TO SOIL TESTS. FERTILIZER NEEDS CAN BE

DIRECTION OF FLOW. CARE SHOULD BE TAKEN TO BUTT ENDS OF STRIPS

GENERAL INSTALLATION (VA. DEPT. OF

SOD ALSO SHOULD NOT BE LAID ON SOIL SURFACES THAT ARE FROZEN.

FIRST ROW OF SOD SHOULD BE LAID IN A STRAIGHT LINE WITH

(SEE FIGURE ABOVE). 4. ON SLOPES 3:1 OR GREATER, OR WHEREVER EROSION MAY BE A PROBLEM SOD SHOULD BE LAID WITH STAGGERED JOINTS AND SECURED BY STAPLING OF OTHER APPROVED METHODS. SOD SHOULD BE INSTALLED WITH THE LENGTH

AFTER ROLLING, SOD SHOULD BE IRRIGATED TO A DEPTH SUFFICIENT THAT

8. THE FIRST MOWING SHOULD NOT BE ATTEMPTED UNTIL THE SOD IS FIRMLY ROOTED, USUALLY 2-3 WEEKS. NOT MORE THAN ONE THIRD OF THE GRASS

SITE PREPARATION

SOD STRIPS IN WATERWAYS SHOULD BE LAID PERPENDICULAR TO THE

SOD SHOULD NOT BE CUT OR LAID IN EXCESSIVELY WET OR DRY WEATHER.

WITH THE GROUND.

THE SURFACE SHOULD BE CLEARED OF ALL TRASH, DEBRIS AND OF ALL 5. AS SODDING OF CLEARLY DEFINED AREAS IS COMPLETED, SOD SHOULD BE

ABSENCE OF ADEQUATE RAINFALL, WATERING SHOULD BE PERFORMED AS

THE STRIPS TIGHTLY AGAINST EACH OTHER. DO NOT LEAVE SPACES AND DO NOT OVERLAP. A SHARPENED MASON'S TROWEL IS A HANDY TOOL FOR TUCKING DOWN THE ENDS AND TRIMMING PIECES.

 ANGLED ENDS CAUSED BY THE AUTOMATIC SOD CUTTER MUST BE MATCHED

MATERIALS

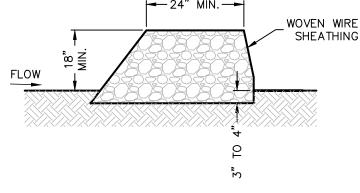
OF 36 HOURS.

HIS DOCUMENT HAS BEEN PRODUCED FROM MATERIAL THAT WAS STORED AND/OR TRANSMITTED ELECTRONICALLY AND MAY HAVE BEEN INADVERTENTLY ALTERED. RELY ONLY ON FINAL HARDCOPY MATERIALS BEARING THE CONSULTANT'S ORIGINAL SIGNATURE AND SEAL. AERIAL IMAGERY PROVIDED BY GOOGL® UNLESS OTHERWISE NOTED. Imagery © 2016,CAPCOG,Digital Globe,Texas Orthormagery Program, USDA Farm Service Agency

ROCK BERMS

THE PURPOSE OF A ROCK BERM IS TO SERVE AS A CHECK DAM IN AREAS 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

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



THE BERM STRUCTURE SHOULD BE SECURED WITH A WOVEN WIRE

2. CLEAN, OPEN GRADED 3-INCH TO 5-INCH DIAMETER ROCK SHOULD BE

1. LAY OUT THE WOVEN WIRE SHEATHING PERPENDICULAR TO THE FLOW LINE.

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

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

COMMON TROUBLE POINTS

THE TOP OR AROUND THE SIDES OF BERM).

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

USED WHERE THERE IS A CONCENTRATION OF WATER IN A CHANNEL OR 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

DISTURBED AREA IS PERMANENTLY STABILIZED. SILT FENCE SHOULD NOT BE

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

3. WOVEN WIRE BACKING TO SUPPORT THE FABRIC SHOULD BE GALVANIZED

2" X 4" WELDED WIRE, 12 GAUGE MINIMUM.

I. 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.

2. 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

TO ALLOW FOR THE SILT FENCE FABRIC TO BE LAID IN THE GROUND AND BACKFILLED WITH COMPACTED MATERIAL. SILT FENCE SHOULD BE SECURELY FASTENED TO EACH STEEL SUPPORT POST OR TO WOVEN WIRE, WHICH IS IN TURN ATTACHED TO THE STEEL FENCE

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

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

INSPECTION AND MAINTENANCE GUIDELINES

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

ITSELF SHOULD BE DISPOSED OF IN AN APPROVED LANDFILL.

SILT FENCE DETAIL

NOT-TO-SCALE

1. INSPECT ALL FENCING WEEKLY.

FENCE).

2. BERM SHOULD HAVE A TOP WIDTH OF 2 FEET MINIMUM WITH SIDE SLOPES AND THE BERM RETAINS ITS SHAPE WHEN WALKED UPON.

BE MADE PROMPTLY AS NEEDED BY THE CONTRACTOR.

**STEEL POSTS, WHICH SUPPORT THE SILT FENCE, SHOULD BE INSTALLED ON A SLIGHT ANGLE TOWARD THE ANTICIPATED RUNOFF SOURCE. POST MUST BE FMBFDDFD A MINIMUM OF 1-FOOT DFFF CENTER. WHERE WATER CONCENTRATES,

ISOMETRIC PLAN VIEW

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

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.

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

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

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

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

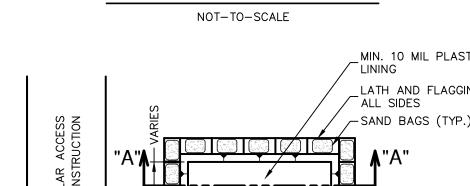
FILTER FABRIC-**PLAN VIEW** -CURB INLET -WIRE MESH SUPPORTING FABRIC

GENERAL NOTES . CONTRACTOR TO INSTALL $2" imes4"- exttt{W1.4} imes exttt{W1.4}$ WIRE MESH SUPPORTING FILTER FABRIC OVER THE INLET OPENING. FABRIC MUST BE SECURED TO WIRE BACKING WITH CLIPS OR WIRE TIES AT THIS LOCATION. SAND BAGS FILLED WITH WASHED PEA GRAVEL SHOULD BE PLACED ON TOP OF WIRE MESH ON TOP OF THE INLET AS SHOWN ON THIS DETAIL TO HOLD WIRE MESH IN PLACE. SANDBAGS FILLED

INSPECTION AND MAINTENANCE GUIDELINES . INSPECTION SHOULD BE MADE WEEKLY. REPAIR OR REPLACEMENT SHOULD

2. REMOVE SEDIMENT WHEN BUILDUP REACHES A DEPTH OF 3 INCHES.

3. CHECK PLACEMENT OF DEVICE TO PREVENT GAPS BETWEEN DEVICE AND 4. INSPECT FILTER FABRIC AND PATCH OR REPLACE IF TORN OR MISSING.



PLAN VIEW SAND BAGS (TYP.)

GENERAL NOTES . DETAIL ABOVE ILLUSTRATES MINIMUM DIMENSIONS. PIT CAN BE INCREASED IN WASHOUT PIT SHALL NOT BE LOCATED IN AREAS SUBJECT TO INUNDATION

MATERIALS

WHEN TEMPORARY CONCRETE WASHOUT FACILITIES ARE NO LONGER

CONCRETE TRUCK WASHOUT

SAND BAGS WITH WASHED PEA ---GRAVEL FILLER SEE GRAVEL FILTER FILTER FABRIC-

BAG DETAIL SECTION "A-A'

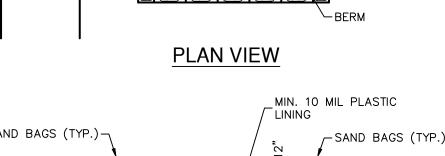
WITH WASHED PEA GRAVEL SHOULD ALSO BE PLACED ALONG THE GUTTER AS SHOWN ON THIS DETAIL TO HOLD WIRE MESH IN PLACE. SAND BAGS TO BE

STACKED TO FORM A CONTINUOUS BARRIER AROUND INLETS. 2. THE BAGS SHOULD BE TIGHTLY ABUTTED AGAINST EACH OTHER TO PREVENT RUNOFF FROM FLOWING BETWEEN THE BAGS.

REMOVED SEDIMENT SHOULD BE DEPOSITED IN A SUITABLE AREA AND IN SUCH A MANNER THAT IT WILL NOT ERODE.

BAGGED GRAVEL CURB INLET PROTECTION DETAIL

5. STRUCTURES SHOULD BE REMOVED AND THE AREA STABILIZED ONLY AFTER



SECTION "A-A'

MAINTENANCE

NOT-TO-SCALE

PLAN VIEW

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