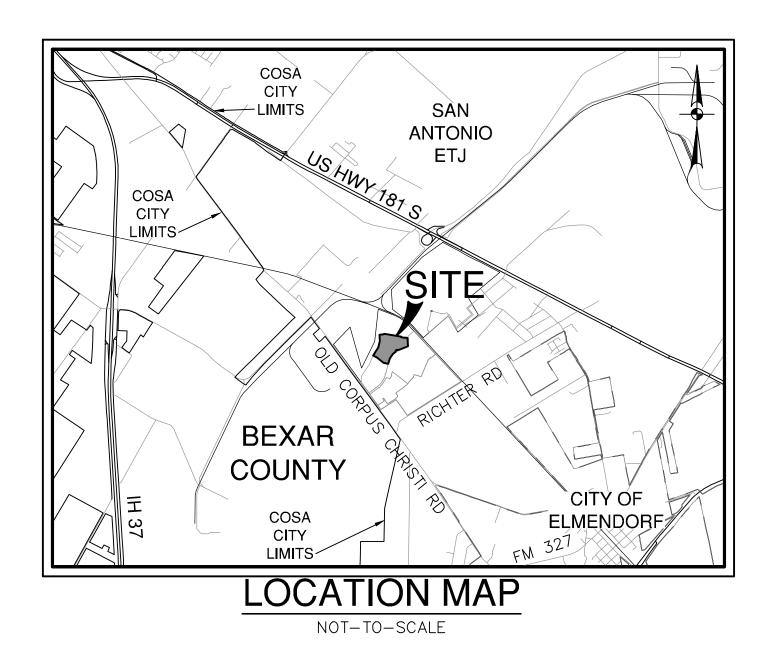
STONE GARDEN - UNIT 3A

SAN ANTONIO, TEXAS

CIVIL CONSTRUCTION PLANS



PREPARED FOR:

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

MAY 2024



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



Sheet List Table

Sheet <u>Number</u>	Sheet Title
C0.00	COVER SHEET
C1.00	OVERALL DRAINAGE PLAN (ULTIMATE DEVELOPMENT)
C1.00A	OVERALL DRAINAGE PLAN (PROPOSED CONDITIONS)
C1.01	DRAIN A PLAN & PROFILE (STA. 1+15.00 TO END)
C1.02	DRAIN B PLAN & PROFILE (STA. 1+15.00 TO END)
C1.03	DRAIN C PLAN & PROFILE (STA. 1+15.00 TO END)
C1.04	DRAIN D PLAN & PROFILE (STA. 1+15.00 TO END)
C1.05	DRAIN E PLAN & PROFILE (STA. 1+05.00 TO END)
C1.06	INTERCEPTOR DRAIN I PLAN & PROFIL (STA. 1+15.00 TO STA. 6+40.00)
C1.07	INTERCEPTOR DRAIN I PLAN & PROFILE (STA. 6+40.00 TO END)
C1.08	INTERCEPTOR DRAIN J PLAN & PROFILE (STA 1+15.00 TO END)
C1.09	DRAINAGE DETAILS
C2.00	GRANITE GARDEN PLAN & PROFILE (STA. 13+39.09 TO END)
C2.01	QUARTZ COVE PLAN & PROFILE (STA. 14+41.31 TO END)
C2.02	NORITE COVE & DINITE RIDGE PLAN & PROFILE (STA. 1+00.00 TO END)
C2.03	MARBLE RIDGE PLAN & PROFILE (STA. 1+49.13 TO 7+44.14)
C2.04	LAMPROITE GARDEN PLAN & PROFILE (STA. 1+48.10 TO END)
C2.05	ICELANDITE WAY PLAN & PROFILE (STA. 1+36.93 TO END)
C2.06	KOMATIITE TRAILS PLAN & PROFILE (STA. 1+14.86 TO END)
C2.00 C2.07	STREET DETAILS
C2.07	STREET DETAILS STREET DETAILS
C2.08 C2.09	STREET DETAILS STREET DETAILS
C2.09	OVERALL SIGNAGE PLAN
C3.00	OVERALL SIGNAGE PLAN OVERALL SIGNAGE PLAN
C3.01	OVERALL SIGNAGE PLAN OVERALL SIGNAGE DETAILS
C3.02	OVERALL SIGNAGE DETAILS OVERALL SIGNAGE DETAILS
C3.03	OVERALL SIGNAGE DETAILS OVERALL SIGNAGE DETAILS
C3.04 C4.00	OVERALL SIGNAGE DETAILS OVERALL WATER DISTRIBUTION PLAN
C4.01	OVERALL WATER DISTRIBUTION PETALLS
C4.02	OVERALL WATER DISTRIBUTION NOTES
C4.03	OVERALL CANITARY SEWER RIAN
C5.00	OVERALL SANITARY SEWER PLAN
C5.01	OVERALL SANITARY SEWER PLAN
C5.02	SANITARY SEWER LINE M PLAN & PROFILE (STA. 13+31.00 TO 19+50.00
C5.03	SANITARY SEWER LINE M PLAN & PROFILE (STA. 19+50.00 TO 27+76.00
C5.04	SANITARY SEWER LINE N PLAN & PROFILE (STA. 14+48.00 TO 24+71.00)
C5.05	SANIATRY SEWER LINE U & V PLAN & PROFILE (STA. 1+00.00 TO END)
C5.06	SANITARY SEWER LINE W PLAN & PROFILE (STA. 1+00.00 TO END)
C5.07	SANITARY SEWER LINE X PLAN & PROFILE (STA. 1+00.00 TO END)
C5.08	OVERALL SANITARY SEWER DETAILS
C5.09	OVERALL SANITARY SEWER NOTES
C6.00	OVERALL UTILITY PLAN
C6.01	OVERALL UTILITY PLAN
C7.00A	OVERALL GRADING PLAN - INDEX
C7.00	OVERALL GRADING PLAN
C7.01	OVERALL GRADING PLAN
	OTODM/MATER ROLL LITION PREVENTION STAN
C8.00	STORM WATER POLLUTION PREVENTION PLAN
C8.00 C8.01	STORM WATER POLLUTION PREVENTION PLAN STORM WATER POLLUTION PREVENTION PLAN

SEWER (LOWER EAST SEWERSHED-DOS RIOS/ LEON CREEK) WATER (SAWS PRESSURE ZONE 750)

	<u>`</u>					
DEVELOF	'ER'S NAME	: LENNAF	R HOMES OF	TEXAS, INC	· ·•	
ADDRES:	s: <u>100 N</u>	IE LOOP 4	10, SUITE 1	155		
CITY:	SAN ANTO	<u> </u>	STATE:	TEXAS	ZIP:	78216
PHONE#	(210) 40	3-6200		FAX# <u>N/</u>	Ά	
SAWS BL	OCK MAP#_	202524 204524	_TOTAL EDU'S	<u>164</u> TO	TAL ACRE	AGE <u>22.70</u>
			PE: 4,140 LF			
l <u></u> _		104		100 110 2	7 1500	

LIT (OAVVOT TILE	SOUTHE ZOINE A	(30)
ELOPER'S NAME: <u>LENNAR</u>	HOMES OF TEXAS	
RESS: 100 NE LOOP 41	10, STE 1155	
: SAN ANTONIO	STATE:TEXAS	ZIP: <u>78216</u>
NE# (210) 403-6200	FAX#N	/A
NE# <u>(210) 403-6200</u> 202524 S BLOCK MAP# <u>204524</u>	TOTAL EDU'S 170 TO	OTAL ACREAGE 22.70
AL LINEAR FOOTAGE OF P	IPE: 4,541 L.F.~8"PVC	PLAT NO. <u>23-11800210</u>
BER OF LOTS 164	SAWS JOB NO2	3-1116

C0.0

e: May 15, 2024, 10:27am User ID: jramos : P:\124\82\09\Design\Civil\CV1248209.dwg

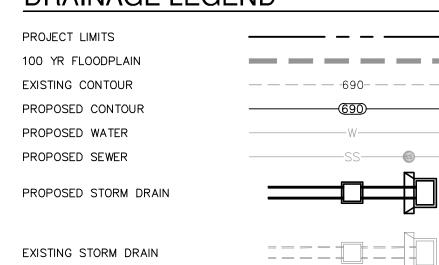
Pile: Market Mar

Master I	Drainage Plan Calculations	COSA CITY LIMITS SAN ANTONIO ETJ	ATE
	(Ultimate Development) and/Sheet Shallow Concentrated Flow - 01	COSA CITY T87 S	
Ref. Structure / Point Description # Area C Lo	Channelized Flow** IDF Curve: CoSA_A14_PA4		
	0.04 11 57 U 0.01 1.6 0.6 315 6.0 0.9 12 25 8.12 17.8		VOISION
2.00 DRAIN B B 3.04 0.77 398 100	0.03 12 53 U 0.01 1.6 0.5 245 6.0 0.7 13 25 7.82 18.3 13 100 9.76 22.8	BEXAR ON TO SERVICE OF THE PROPERTY OF THE PRO	O. G. RE
3.00 DRAIN C C 3.76 0.77 568 100	0.02 13 58 U 0.01 1.6 0.6 410 6.0 1.1 14 5 5.42 15.7 14 100 9.39 27.2	FUTURE DRAIN "H" COSA CITY OF ELMENDORF	TE OF TELL
4.00 DRAIN D D 2.90 0.77 610 100	0.02 13 5 U 0.01 1.6 0.1 505 6.0 1.4 14 5 5.42 12.1 14 14 25 7.53 16.8 14 100 9.39 21.0	LOCATION MAP NOT-TO-SCALE	EUGENE H. DAWSON III
DRAIN P	0.02 13 600 U 0.01 1.6 6.2 1,105 6.0 3.1 22 5 4.30 78.5 22 100 7.34 134.0 26.8	SCALE: 1"= 200"	3 112792 P
5.01 EXISTING DRAIN P P1 7.32 0.85 1805 100	0.02 13 600 U 0.01 1.6 6.2 1,105 6.0 3.1 22 25 5.91 36.8 22 100 7.34 45.7 17 5 4.91 34.0	S A A S PLACE	Minnes
EVICTING	0.01 15 11 U 0.01 1.6 0.1 735 6.0 2.0 17 25 6.76 46.8 17 100 8.42 58.3 17 5 4.91 24.8	AREA G AAA AAAAAAAAAAAAAAAAAAAAAAAAAAAAA	5/1/2024
DRAIN P2 P2+P3 6.23 0.81 1050 100	0.01 15 40 U 0.01 1.6 0.4 910 6.0 2.5 17 25 6.76 34.1 17 100 8.42 42.5 14 5 5.42 7.7 100 8.42 42.5 14 5 5.42 7.7 100 8.42 42.5	FUTURE DRAIN "F" AND BEEN PRODUCTION OF THE PROD	0000
5.05 FUTURE P3 4.66 0.77 325 100	0.03 12 225 U 0.01 1.6 2.3 60 6.0 0.2 14 25 7.53 10.8 0.01 15 10 U 0.01 1.6 0.1 215 6.0 0.6 15 5 5.24 18.8 0.01 15 15 25 7.24 26.0	PROJECT LIMITS EXISTING CONTOUR	10.375.900
DRAIN P3	0.02 13 120 U 0.01 1.6 1.2 555 6.0 1.5 15 100 9.03 32.4 15 5 5.24 17.3 15 5 5.24 17.3 15 25 7.24 24.0	DRAIN "D" SEE SHEET C1.04 100 YR UD FLOODPLAIN 100 YR FEMA FLOODPLAIN RUNOFF FLOW PATH 100 YR UD FLOODPLAIN 100 YR FEMA FLOODPLAIN RUNOFF FLOW PATH	1 KS 1RS 78213 21
ELITURE	0.03 12 35 U 0.01 1.6 0.4 130 6.0 0.4 12 25 8.12 31.4 12 100 10.14 39.2	CEE CHEET OI OZ VIII A NO	VEE ONIO, TX
8.00 FUTURE H 3.97 0.77 500 100	0.04 11 90 U 0.01 1.6 0.9 310 6.0 0.9 12 25 8.12 24.8 12 100 10.14 31.0	EXISTING DRAIN "P2" A A A A A A A A A A A A A A A A A A A	5 AN ANT
15.0 EXISTING DRAIN M M+M1 8.57 0.77 850 100	0.02 13 65 U 0.01 1.6 0.7 685 6.0 1.9 15 5 5.24 34.6 15 15 25 7.24 47.8 15 15 100 9.03 59.6	DRAIN "B" DRAIN "B" DRAIN "B" DRAIN "B" DRAIN "B" DRAIN B A A A A A A A A A A A A A A A A A A	EERING FIF
DRAIN M	0.02 13 65 U 0.01 1.6 0.7 685 6.0 1.9 15 5 5.24 34.0 15 15 100 9.03 58.6 10 10 15 100 9.03 58.6	DRAIN "A" O.01 AC	OO NW LC
15.2 CALCULATION M1 0.14 0.95 130 -	130 6.0 0.4 5 25 10.92 1.5 5 100 13.65 1.8	SEE SHEET C1.01 A A A A A A A A A A A A A A A A A A A	20
DRAININ	0.02 13 20 U 0.02 2.3 0.1 650 6.0 1.8 14 25 7.53 41.6 14 100 9.39 51.9 16 5 5.06 21.4	EXISTING DRAIN "T" AREA B A A A A B C C C (5.2) CONSTRUCTION PLANS) CONSTRUCTION PLANS CONSTRUCTION PLANS (SEE SHEET C1.05)	
DRAIN S 51+52 5.50 0.77 500 100	0.01 15 115 U 0.02 2.3 0.8 285 6.0 0.8 16 25 6.99 29.6 16 100 8.71 36.9 15 115 U 0.02 2.3 0.8 285 6.0 0.8 16 5 5.06 18.6 0.01 15 115 U 0.02 2.3 0.8 285 6.0 0.8 16 25 6.99 25.7	(SEE STONE GARDEN — UNIT 2A CONSTRUCTION PLANS) LIMESTONE GARDEN — LIMESTONE GARDEN — LIMESTONE GARDEN — SASAS A A A A A A A A A A A A A A A A	
CALCULATION S2 0.73 0.80 845	16 100 8.71 32.0 5 5 7.85 4.6	EXISTING DRAIN "S" (SEE STONE GARDEN - UNIT 2 CONSTRUCTION PLANS) (SEE AND A A CONTRUCTION PLANS) (SEE AND A A CONTRUCTION PLANS)	
20.2 POINT 32 0.73 0.80 843 1 2 2 1.0 EXISTING DRAIN T 4.64 0.77 550 100	0.02 13 160 U 0.02 2.3 1.2 290 6.0 0.8 14 25 7.53 26.9	B 20.0 A A A A A A A A A A A A A A A A A A	⋖
Rational Method Time of Concentration *Seelye Chart or TR-55 Eqn. 3-3 **As Calculated using Mannings or TR-55 Figure 3-1 or 6 ft/s	From TR-55 Figure 3-1** $v = \frac{k}{n} R^{2/3} S_o^{1/2}$ S: For Streets: n = 0.018, R = 0.2 (Adapted from Mannings) P: For Paved: n = 0.025, R = 0.2	AREA SI (A.77 AC) (SEE STONE GARDEN - UNIT 2) ()
	$k = 1.486 \ ft^{1/3}/s$ U: For Unpaved: n = 0.05, R = 0.4 D: For Default: v = 6 fps	AREAR A XB	AS LAN
		A A A A A A A A A A A A A A A A A A A	1- L , TEX , GE P
			DEN UNTY RAINA
		$\begin{array}{c} A \\ A \\ A \\ A \end{array}$	ARD COUI
		$\frac{292 \text{AC}}{824 \text{AC}} = \frac{1000 \text{AC}}{1000 \text{AC}} $	XAR RAL
			NE BE,
		AREA Q3 0.61 AC RIGHT-OF-WAY EASEMENT AREA C6 0.93 AC AREA C10 0.93 AC JUDGEMENT CASE NO. 2002ED0022 P.C.1	STC
		WOL. 9409, PG. 1205 O.P.R. VOL. 9428, PG. 2015 O.P.R. VOL. 9428, PG. 2015 O.P.R. VOL. 9438, PG. 2015 O	
		AREA GI 3.01 AC AREA GI 3.01 AC AREA CS	
		0.73 AC	
		AREA G1 C C C C C C C C C C C C C C C C C C	OLAT NO 22 11000
		A A A A A A A A A A A A A A A A A A A	JOB NO 12482-09 DATE MAY 2024
		DESCRIPTION OF THE RIDGE OF THE	DESIGNER BK CHECKED DW DRAWN
		AREA B 6.37 AC B	SHEET <u>C1.00</u>

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Ref. Point Description 1.00 DRAIN A 2.00 DRAIN B 3.00 DRAIN C 4.00 DRAIN D 5.00 EXISTING DRAIN P 5.01 EXISTING DRAIN P 5.02 DRAIN E 5.03 DRAIN P2 5.04 INTERCEPTOR DRAIN J 6.00 INTERCEPTOR DRAIN I 15.00 EXISTING DRAIN M 15.1 EXISTING DRAIN M 15.2 CALCULATION POINT 16.0 EXISTING DRAIN N 20.0 EXISTING DRAIN N 20.1 EXISTING DRAIN N 20.2 CALCULATION POINT	# Area (Ac) C Flow (Seelyel Lo (FT) CM (Seelyel Lo (Seel	To* MMN Lsc Egg Vsc Tsc** (MIN) Lch Vch (PPS) Toh (MIN) 11 57 U 0.01 1.6 0.6 315 6.0 0 12 53 U 0.01 1.6 0.5 245 6.0 0 13 58 U 0.01 1.6 0.6 410 6.0 1 15 205 U 0.01 1.6 2.1 370 6.0 1 15 600 U 0.01 1.6 6.2 930 6.0 2 15 600 U 0.01 1.6 5.2 530 6.0 1 15 600 U 0.01 1.6 6.2 285 6.0 0 15 155 U 0.01 1.6 3.6 460 6.0 1 13 65 U 0.01 1.6 0.7 685 6.0 1	Tc-rot Return	SEE SHEET CI.02 DRAIN "A" SEE SHEET CI.02 DRAIN "A" SEE SHEET CI.01	B A A A A A A A A A A A A A A A A A A A	AREA P2 7.05 AC		PAPE-DAWSON ENGINEERING FIRM #10028800 TEXAS ENGINEERING FIRM #10028800 TEXAS ENGINEERING FIRM #10028800
Rational Method Time of *Seelye Chart or TR-55 E **As Calculated using Mar		From TR-55 Figure 3-1** $v = \frac{k}{n} R^{2/3} S_0^{-1/2}$ $k = 1.486 \ ft^{1/3}/s$ S: For Streets: $n = 0.018$, P: For Paved: $n = 0.025$, U: For Unpaved: $n = 0.05$ D: For Default: $v = 6$ fps		EXISTING DRAIN "TO CONSTRUCTION PLANS) EXISTING DRAIN "S" STONE GARDEN — UNIT 2 CONSTRUCTION PLANS) B	AREA DATE OF DRAW FE SEE SHEET CLOSE SEET CLOSE SEET CLOSE OF THE PLANT OF THE PLAN	EXISTING DRAIN "N" (SEE STONE GARDEN – UNIT 2 CONSTRUCTION PLANS) (6.0	AREA CO AREA CO 1.07 AC 1.07 AC 1.0	STONE GARDEN - UNIT 3A BEXAR COUNTY, TEXAS DESIGNEL BK CHECKED DW DRAINAGE PLAN (PROPOSED CONDITIONS)





PROPOSED EARTHEN CHANNEL

FLOW ARROW

SECTION "A-A" NOT-TO-SCALE STA. 1+19.50 - 2+15.19

HYDRAULIC CALCULATIONS-DRAIN "A" SIDEWALK BOX $Q_{25} = 17.8 \text{ CFS}$

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

A = L(0.52), h = 0.52, g = 32.2, c = 0.70

 $L = \frac{(0.70) (0.52)\sqrt{2 (32.2) (0.52)}}{(0.70) (0.52)\sqrt{2 (32.2) (0.52)}}$ L = 8.45 FT USE 2 ~ 6 FT SIDEWALK BOX

CHECK WITH WEIR FORMULA

h = 0.61 < 0.79 OK

DRAINAGE & GRADING NOTES:

- 1. A BEXAR COUNTY ROW PERMIT MUST BE OBTAINED BEFORE WORKING 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 EXAM 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 TXDO SPECIFICATIONS. ALL OTHER CONCRETE SHALL BE CLASS "A" 3000 P CYLINDER STRENGTH IN 28 DAYS.
- 4. REFERENCE DRAINAGE DETAILS FOR PIPE TRENCH DETAILS. BO CULVERT, HEADWALL, AND WINGWALL CONSTRUCTION DETAILS, AND BOX CULVERT BEDDING AND EXCAVATION LIMITS.
- 5. CONTRACTOR SHALL GROUT ALL CURB INLETS AND JUNCTION BOXES T 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 GROUN

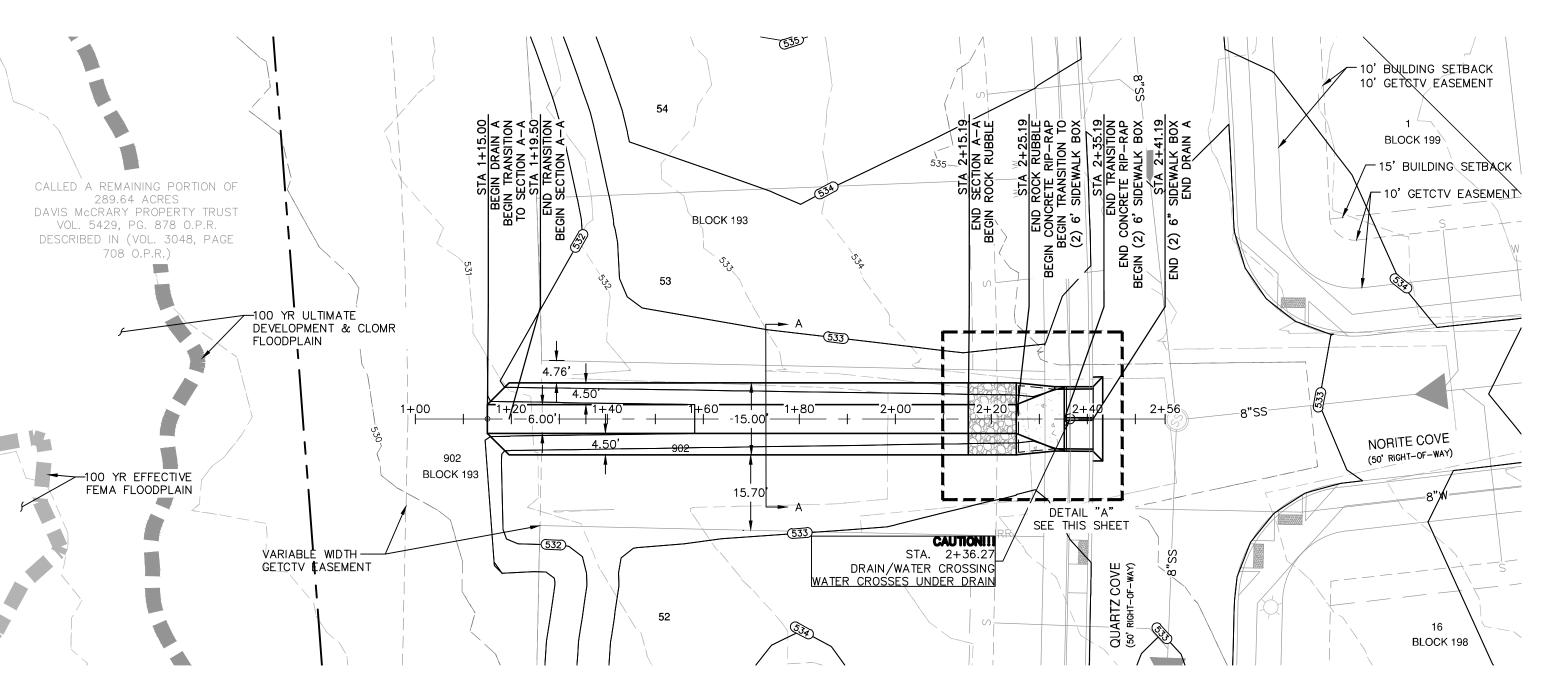
AND MAINTAIN A MINIMUM CHANNEL DEPTH OF "D" AS SHOWN IN THE

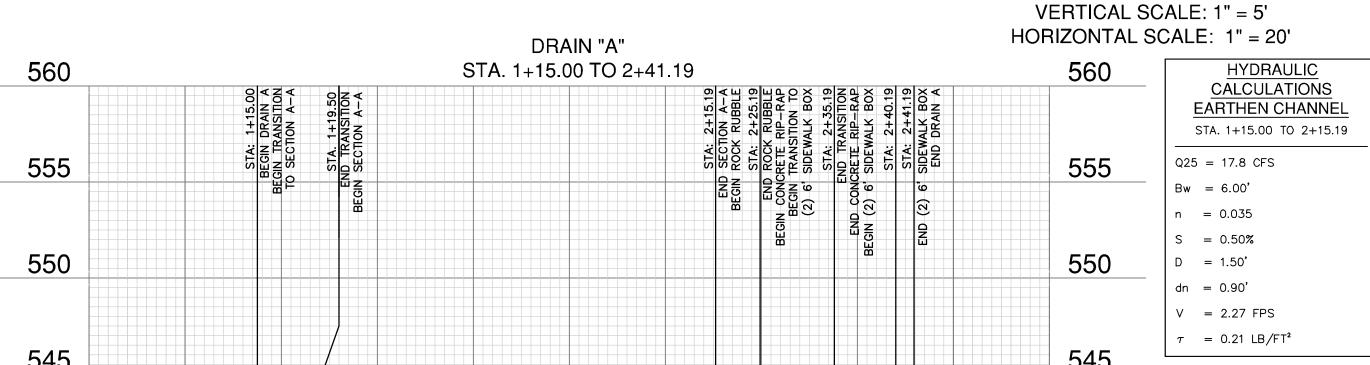
TRENCH EXCAVATION SAFETY PROTECTION:

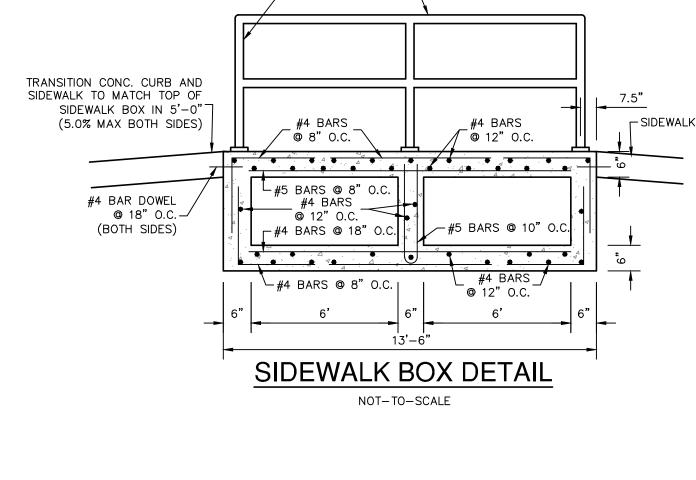
CONTRACTOR AND/ OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYE OR STRUCTURAL DESIGN/ GEOTECHNICAL/ SAFETY/EQUIPMENT CONSULTANT IF ANY, SHALL REVIEW THESE PLANS AND ANY AVAILABLE GEOTECHNICAL INFORMATION AND THE ANTICIPATED INSTALLATION SITES WITHIN THE PROJECT WORK AREA IN ORDER TO IMPLEMENT CONTRACTOR'S TRENC 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 SAFET CONSULTANT SHALL IMPLEMENT A TRENCH SAFETY PROGRAM ACCORDANCE WITH OSHA STANDARDS GOVERNING THE PRESENCE AND ACTIVITIES OF INDIVIDUALS WORKING IN AND AROUND TRENCH EXCAVATION.

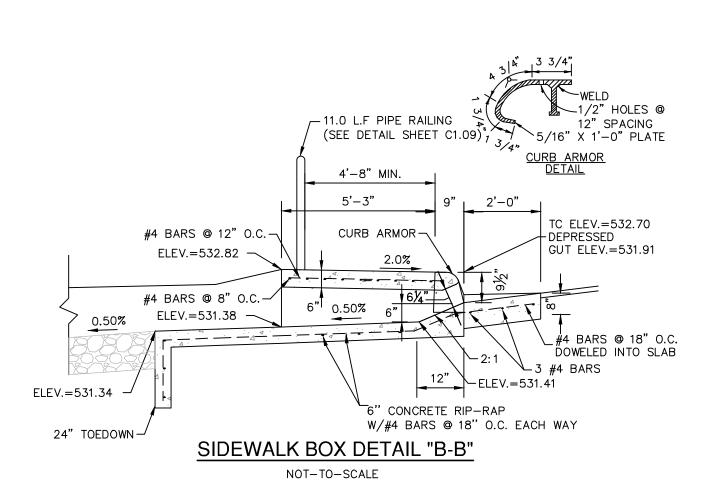
CAUTION!!

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 T ENGINEER IMMEDIATELY AND PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL CONTACT 1-800-DIG-TESS A MINIMUM OF 48 HOURS PRIOR TO TH START OF CONSTRUCTION. ANY DAMAGE TO EXISTING UTILITIES SHALL 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.

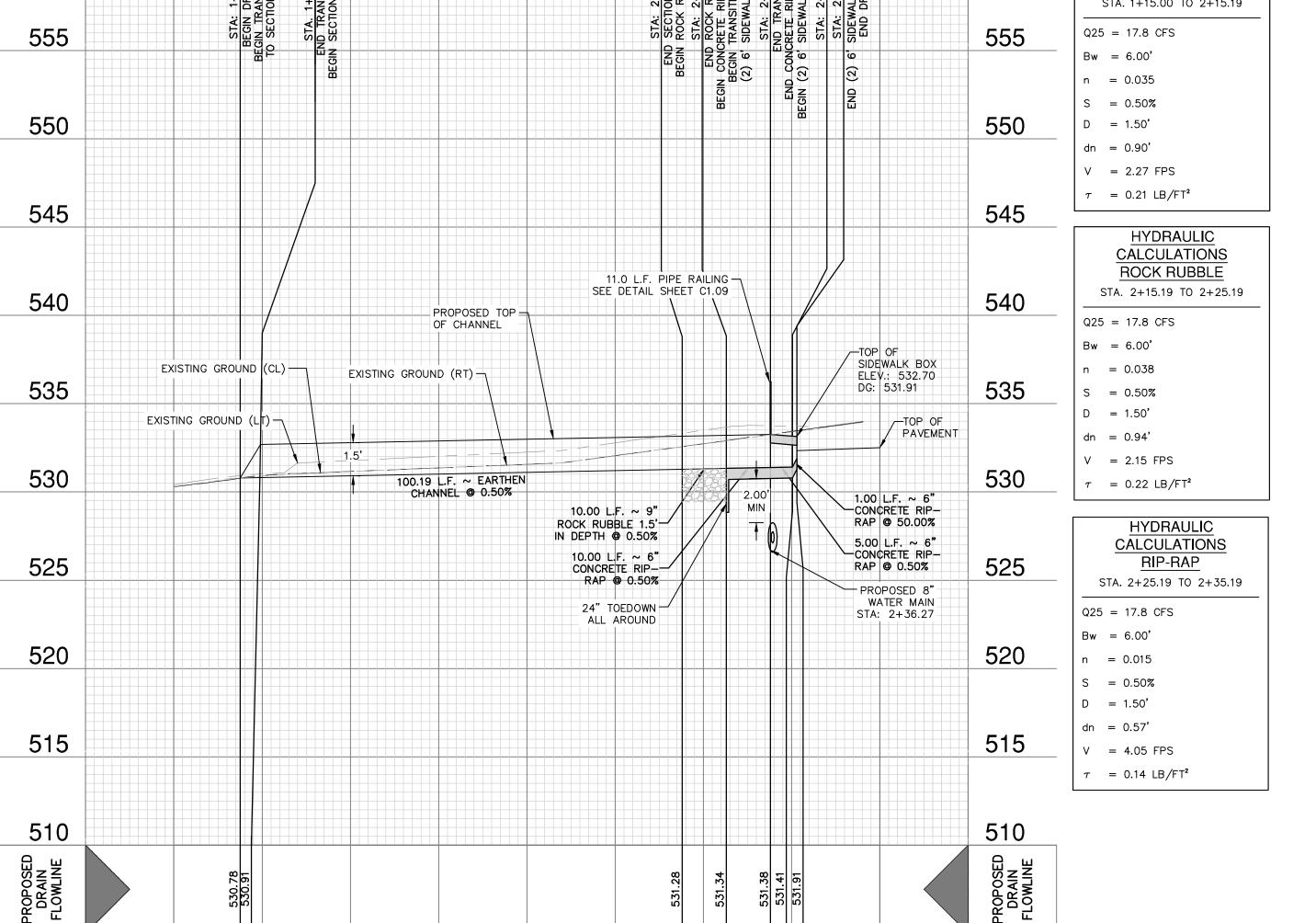








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1+60

1+80

2+00

2+20

1+20

1+40

-9" ROCK RUBBLE 1.5' IN DEPTH ALL AROUND -10' GETCTY EASEMENT DETAIL "A" SCALE: 1" = 5'PIPE RAILING —(SEE DETAIL— ON SHEET C1.09)

- 15' BUILDING SETBACK

24" TOE DOWN -

_{1/}-532.84

11.0 LF PIPE RAILING SEE DETAIL SHEET C1.09

10' GETCTC EASEMENT

532.70 TC √531.91 DG

2+40

NO. 23-11800210 JOB NO. 12482-09 MAY 2024 DESIGNER CHECKED DW DRAWN JF

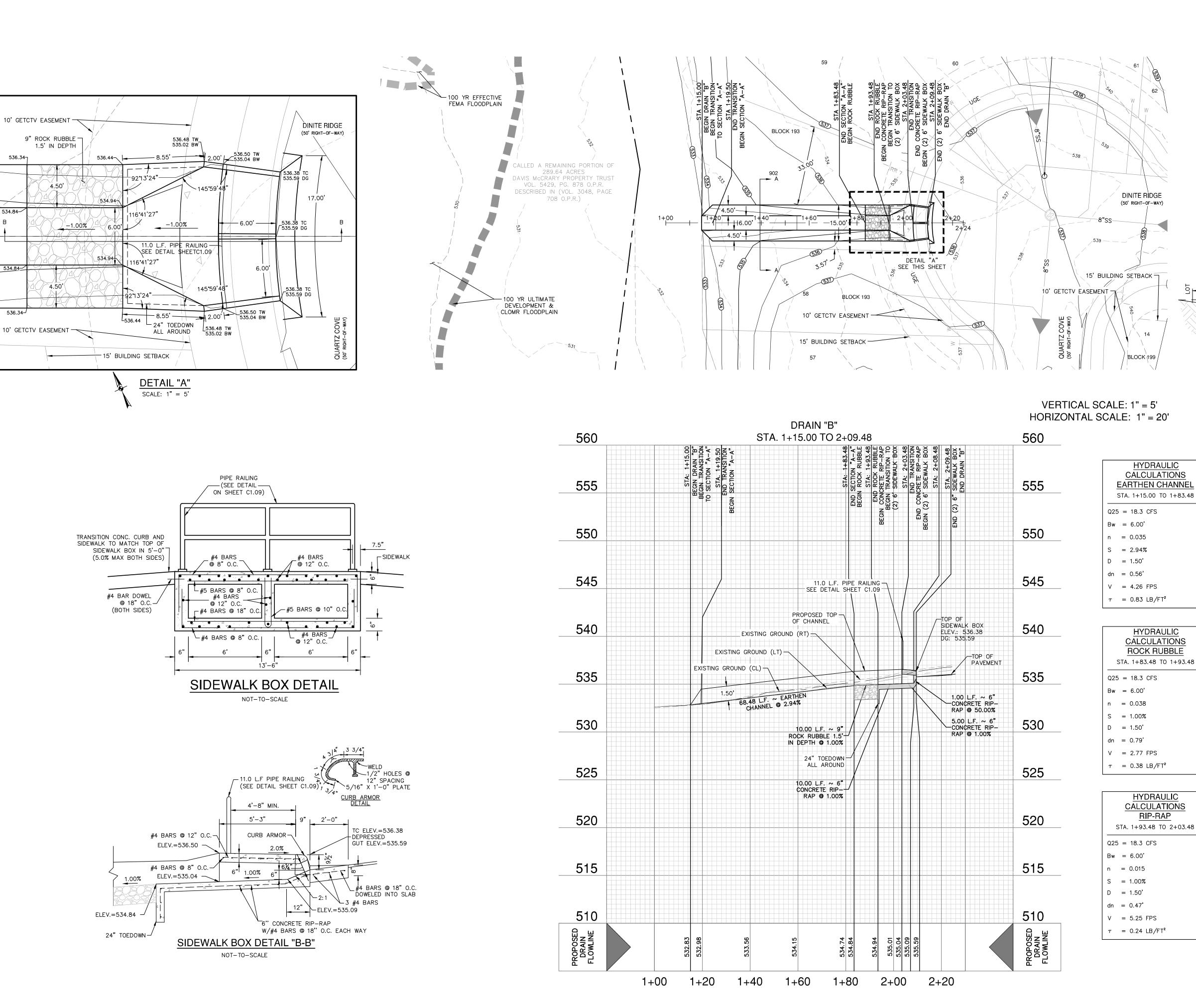
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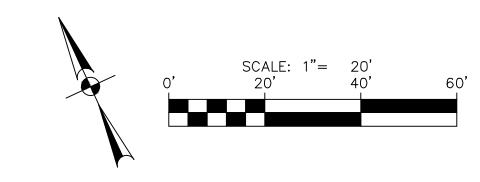
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EUGENE H. DAWSON III

IPE-DAWSC

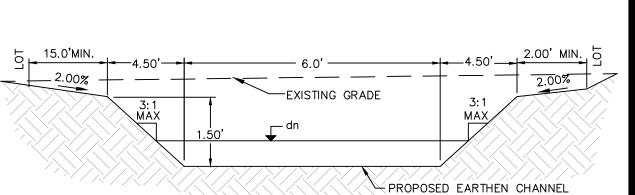
C1.01





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

EUGENE H. DAWSON II



FLOW ARROW

SECTION "A-A"

NOT-TO-SCALE STA. 1+19.50 - 1+83.48

HYDRAULIC CALCULATIONS-DRAIN "B" SIDEWALK BOX

 $Q_{25} = 18.3 \text{ CFS}$ $Q_{25} = CA\sqrt{2gh}$ (ORIFICE FLOW EQN.)

A = L(0.52), h = 0.52, g = 32.2, c = 0.70

 $L = \frac{10.3 \text{ G/s}}{(0.70) (0.52)\sqrt{2 (32.2) (0.52)}}$

L = 8.69 FT USE 2 ~ 6 FT SIDEWALK BOX

CHECK WITH WEIR FORMULA

HYDRAULIC

HYDRAULIC

HYDRAULIC

RIP-RAP

h = $\left(\frac{Q}{(CL)}\right)^{2/3} = \left(\frac{18.3}{(3.087)(12)}\right)^{2/3} = 0.62 \text{ FT.}$

h = 0.62 < 0.79 OK

DRAINAGE & GRADING NOTES:

- 1. A BEXAR COUNTY ROW PERMIT MUST BE OBTAINED BEFORE WORKING 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 EXAC 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 PS 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 TH

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 TRENC EXCAVATION SAFETY PROTECTION SYSTEMS, PROGRAMS AND /C PROCEDURES FOR THE PROJECT DESCRIBED IN THE CONTRACT DOCUMENT 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/OF CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR SAFETY CONSULTANT SHALL IMPLEMENT A TRENCH SAFETY PROGRAM I 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 E THE SOLE RESPONSIBILITY OF THE CONTRACTOR AND THE REPAIR SHALL B AT CONTRACTOR'S SOLE EXPENSE WHETHER THE UTILITY IS SHOWN ON THESE PLANS OR NOT.

DE

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PLAT NO. 23-11800210 JOB NO. 12482-09 MAY 2024 DESIGNER

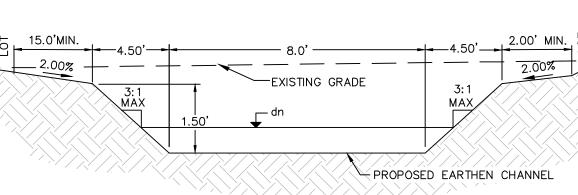
CHECKED DW DRAWN JF C1.02

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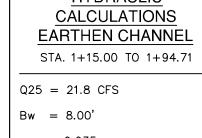
PROJECT LIMITS

EXISTING STORM DRAIN FLOW ARROW



SECTION "A-A" NOT-TO-SCALE STA. 1+19.50-1+94.71

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



n = 0.035S = 1.93%D = 1.50'dn = 0.60'V = 3.71 FPS $\tau = 0.60 \text{ LB/FT}^2$

		HY	DKA	٩UL	_IC	
	(CALC	CUL	4ΤΙ	ONS	ì
		ROC	KR	UB	BLE	
	STA	. 1+9	4.71	ТО	2+04	1
Q25	5 =	21.8	CFS			-
Bw	=	8.00	,			
n	=	0.038	3			
S	=	1.009	7			
D	=	1.50'				
ــــــــــــــــــــــــــــــــــــــ		0.70				

<u>HYDRAULIC</u>							
CALCULATIONS							
RIP-RAP							
STA. 2+04.71 TO 2+14.71							
Q25 = 21.8 CFS							
Bw = 8.00'							

4. REFERENCE DRAINAGE DETAILS FOR PIPE TRENCH DETAILS, BOX CULVERT BEDDING AND EXCAVATION LIMITS. PROVIDE FOR POSITIVE DRAINAGE. $\tau = 0.38 \text{ LB/FT}^2$

CONTRACTOR AND / OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYER OR STRUCTURAL DESIGN/ GEOTECHNICAL/ SAFETY/EQUIPMENT CONSULTANT IF ANY, SHALL REVIEW THESE PLANS AND ANY AVAILABLE GEOTECHNICAL INFORMATION AND THE ANTICIPATED INSTALLATION SITES WITHIN THI PROJECT WORK AREA IN ORDER TO IMPLEMENT CONTRACTOR'S TRENCH EXCAVATION SAFETY PROTECTION SYSTEMS, PROGRAMS AND /OF PROCEDURES FOR THE PROJECT DESCRIBED IN THE CONTRACT DOCUMENTS. THE CONTRACTOR'S IMPLEMENTATION OF THESE SYSTEMS, PROGRAMS AND/OR PROCEDURES SHALL PROVIDE FOR ADEQUATE TRENCH EXCAVATION SAFÉTY PROTECTION THAT COMPLY WITH AS A MINIMUM, OSHA STANDARDS FOR TRENCH EXCAVATIONS. SPECIFICALLY, CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR SAFETY CONSULTANT SHALL IMPLEMENT A TRENCH SAFETY PROGRAM IN ACCORDANCE WITH OSHA STANDARDS GOVERNING THE PRESENCE AND ACTIVITIES OF INDIVIDUALS WORKING IN AND AROUND TRENCH EXCAVATION.

DRAINAGE LEGEND

100 YR FLOODPLAIN EXISTING CONTOUR PROPOSED CONTOUR PROPOSED WATER PROPOSED SEWER PROPOSED STORM DRAIN

√ 10' BUILDING SETBACK \10' GETCTV EASEMENT

BLOCK 200

MARBLE RIDGE

(VARIABLE WIDTH R.O.W.)

15' BUILDING SETBACK -

10' GETCTV EASEMENT -

HYDRAULIC

HYDRALILIC 04.71

dn = 0.76'V = 2.79 FPS

n = 0.015S = 1.00%

D = 1.50dn = 0.45'V = 5.18 FPS

 $\tau = 0.24 \text{ LB/FT}^2$

MARBLE RIDGE

(VARIABLE WIDTH R.O.W.)

1

EFFECTIVE FEMA

FLOODPLAIN

1+,00

—— 100 YR ULTIMATE DEVELOPMENT & CLOMR

FLOODPLAIN

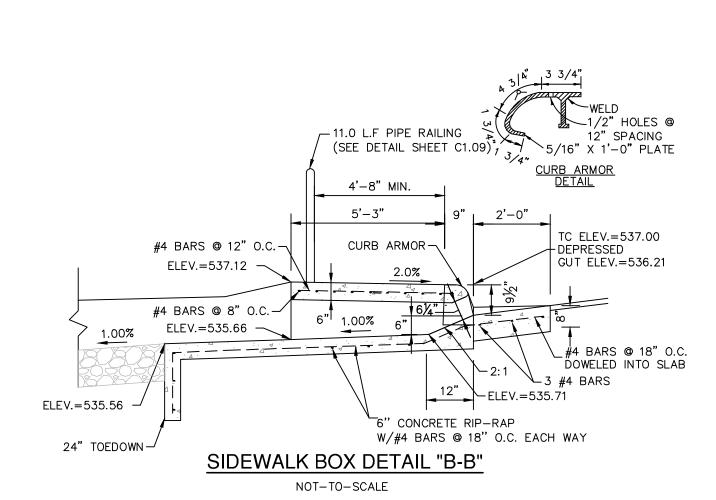
CALLED A REMAINING PORTION OF `

AVIS McCRARY PROPERTY TRUST

ESCRIBED IN (VOL. 3048, PAGE

708 O.P.R.)

VOL. 5429, PG. 878 O.P.R.



∕ 24" TOEDOWN

82°56'57"'

¦114°14'32"'

─10'GETCTV EASEMENT ─

- 15' BUILDING SETBACK

TRANSITION CONC. CURB AND

SIDEWALK TO MATCH TOP OF

SIDEWALK BOX IN 5'-0"

#4 BAR DOWEL

(BOTH SIDES)

@ 18" O.C.*—*∕

(5.0% MAX BOTH SIDES)

ALL AROUND

11.0 L.F. PIPE RAILING SEE DETAIL SHEET C1.09

DETAIL "A"

SCALE: 1" = 5

PIPE RAILING

/—(SEE DETAIL—

ON SHEET C1.09)

′ @ 8" O.C.

-#5 BARS @ 8" O.C.

-#4 BARS @ 18" O.C.

-#4 BARS @ 8" O.C.।

- #+ DAKS @ 12" O.C.

SIDEWALK BOX DETAIL

NOT-TO-SCALE

__ #4 BARS

© 12" O.C.

__#5 BARS @ 10" O.C

© 12" O.C.

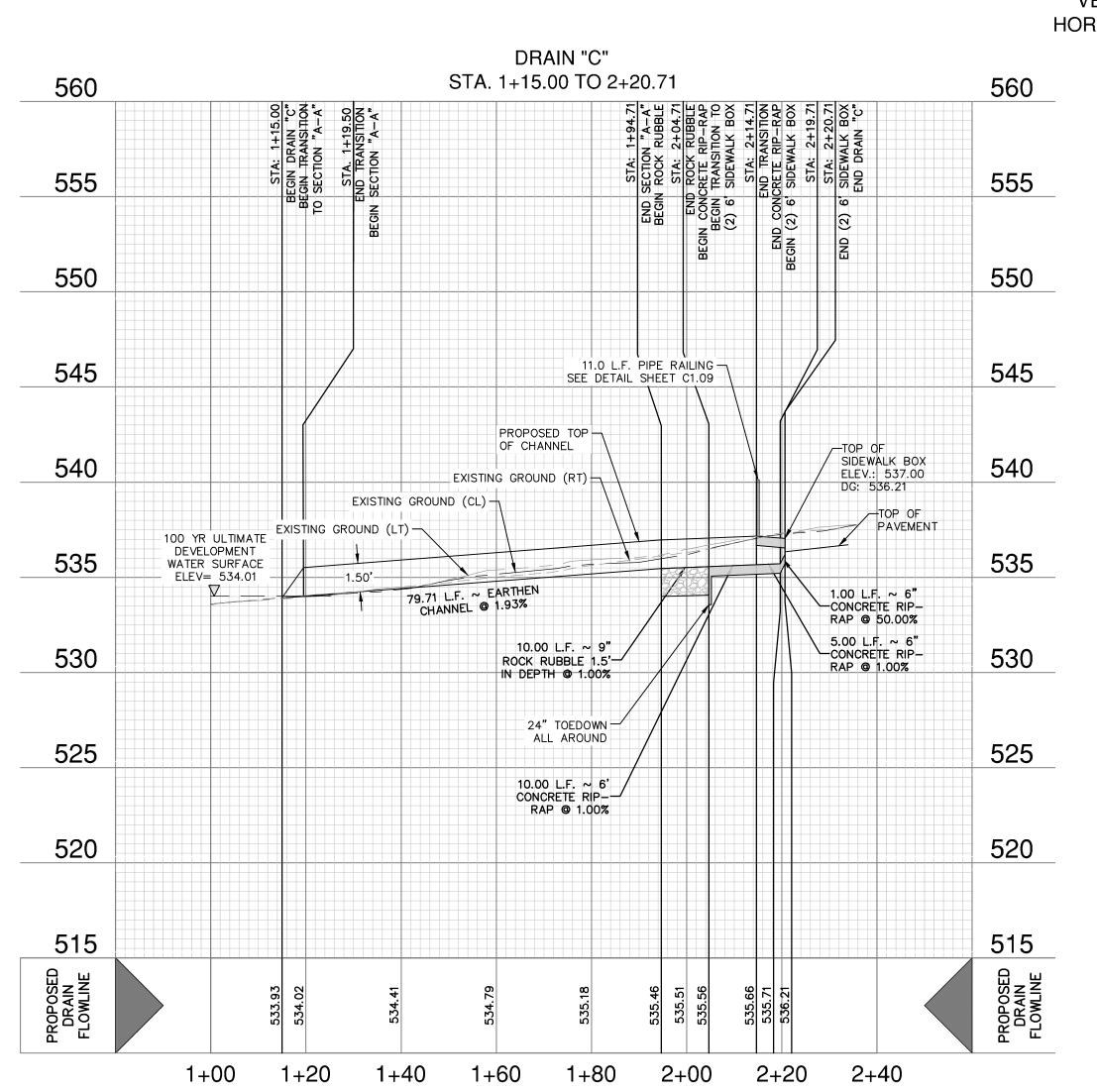
to the second se

BLOCK 193

9" ROCK RUBBLE -

8.00'

1.5' IN DEPTH



DETAIL "A"

SEE THIS SHEET

∆015°31¹06"

\$73°19'01,"E

R24.\00'_

L6.50'

BLOCK 193

/10' GETCTV EASEMENT -

15' BUILDING SETBACK -

HYDRAULIC CALCULATIONS-DRAIN "C" SIDEWALK BOX

 $Q_{25} = 21.8 \text{ CFS}$ $Q_{25} = CA\sqrt{2gh}$ (ORIFICE FLOW EQN.)

A = L(0.52), h = 0.52, g = 32.2, c = 0.7021.8 CFS $L = \frac{21.8 \text{ CFS}}{(0.70) (0.52)\sqrt{2 (32.2) (0.52)}}$

L = 10.35 FT USE 2 ~ 6 FT SIDEWALK BOX

CHECK WITH WEIR FORMULA h = $\left(\frac{Q}{(CL)}\right)^{2/3}$ = $\left(\frac{21.8}{(3.087)(12)}\right)^{2/3}$ = 0.70 FT.

h = 0.70 < 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.

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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.

CULVERT, HEADWALL, AND WINGWALL CONSTRUCTION DETAILS, AND BOX

5. CONTRACTOR SHALL GROUT ALL CURB INLETS AND JUNCTION BOXES TO

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

CAUTION!!

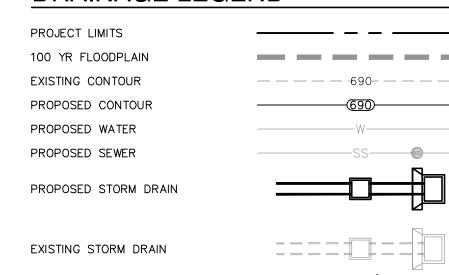
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PLAT NO. 23-11800210 12482-09 MAY 2024 DESIGNER CHECKED DW DRAWN JR

DE

EUGENE H. DAWSON II

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PROPOSED EARTHEN CHANNEL

FLOW ARROW

NOT-TO-SCALE STA. 1+19.50 - 2+04.07

SETBACK

DETAIL "A" SEE THIS SHEET

10' GETCTV EASEMENT

KOMATIITE TRAILS

10' GETCTV EASEMENT

SETBACK

T 10' BUILDING SETBACK 10' GETCTV EASEMENT

> **HYDRAULIC CALCULATIONS EARTHEN CHANNEL** STA. 1+15.00 TO 2+04.07

Q25 = 16.8 CFSBw = 6.00'

n = 0.035S = 2.34%D = 1.50'

dn = 0.57'V = 3.82 FPS

 $\tau = 0.67 \text{ LB/FT}^2$

HYDRAULIC CALCULATIONS ROCK RUBBLE STA. 2+04.07 TO 2+14.07 Q25 = 16.8 CFSBw = 6.00'n = 0.038

S = 1.00%D = 1.50'dn = 0.76'

dn = 0.45'

 $\tau = 0.23 \text{ LB/FT}^2$

V = 2.67 FPS $\tau = 0.36 \text{ LB/FT}^2$

HYDRAULIC CALCULATIONS RIP-RAP STA. 2+14.07 TO 2+24.07 Q25 = 16.8 CFSBw = 6.00'n = 0.015S = 1.00%D = 1.50'

SECTION "A-A"

HYDRAULIC CALCULATIONS-DRAIN "D" SIDEWALK BOX $Q_{25} = 16.8 \text{ CFS}$

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

 $L = \frac{10.0 \text{ s. s.}}{(0.70) (0.52)\sqrt{2 (32.2) (0.52)}}$

L = 7.98 FT USE 2 ~ 6 FT SIDEWALK BOX

CHECK WITH WEIR FORMULA h = $\left(\frac{Q}{(CL)}\right)^{2/3} = \left(\frac{16.8}{(3.087)(12)}\right)^{2/3} = 0.59 \text{ FT.}$

h = 0.59 < 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.

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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 CULVERT BEDDING AND EXCAVATION LIMITS.

5. CONTRACTOR SHALL GROUT ALL CURB INLETS AND JUNCTION BOXES TO PROVIDE FOR POSITIVE DRAINAGE.

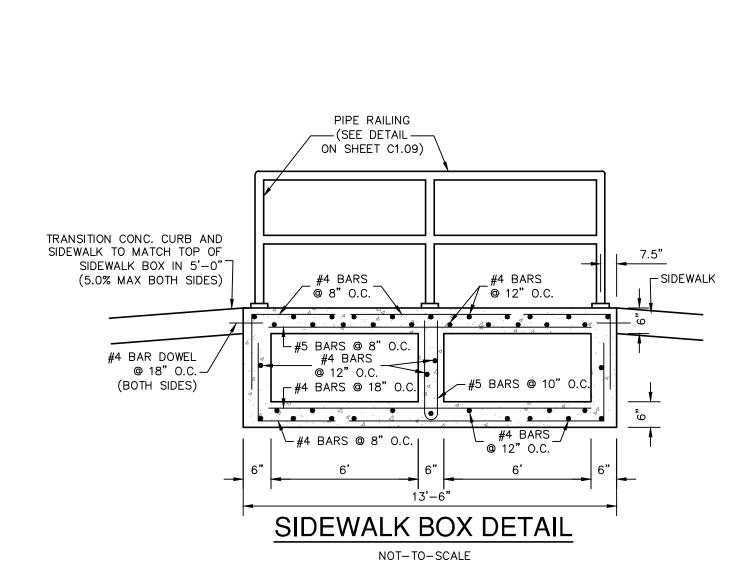
6. EARTHEN CHANNELS WILL BE VEGETATED BY SEEDING OR SODDING. 85% OF THE CHANNEL SURFACE MUST HAVE ESTABLISHED VEGETATION BEFORE THE CITY OF SAN ANTONIO WILL ACCEPT.

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 /OF PROCEDURES FOR THE PROJECT DESCRIBED IN THE CONTRACT DOCUMENTS THE CONTRACTOR'S IMPLEMENTATION OF THESE SYSTEMS, PROGRAMS AND/OR PROCEDURES SHALL PROVIDE FOR ADEQUATE TRENCH EXCAVATION SAFÉTY PROTECTION THAT COMPLY WITH AS A MINIMUM, OSHA STANDARDS FOR TRENCH EXCAVATIONS. SPECIFICALLY, CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR SAFETY CONSULTANT SHALL IMPLEMENT A TRENCH SAFETY PROGRAM IN ACCORDANCE WITH OSHA STANDARDS GOVERNING THE PRESENCE AND ACTIVITIES OF INDIVIDUALS WORKING IN AND AROUND TRENCH EXCAVATION. CAUTION!!

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_ 24" TOEDOWN

536.92-

ALL AROUND

11.0 LF PIPE RAILING -

11°50'54"'

-10' GETCTV EASEMENT

DETAIL "A"

SCALE: 1" = 5

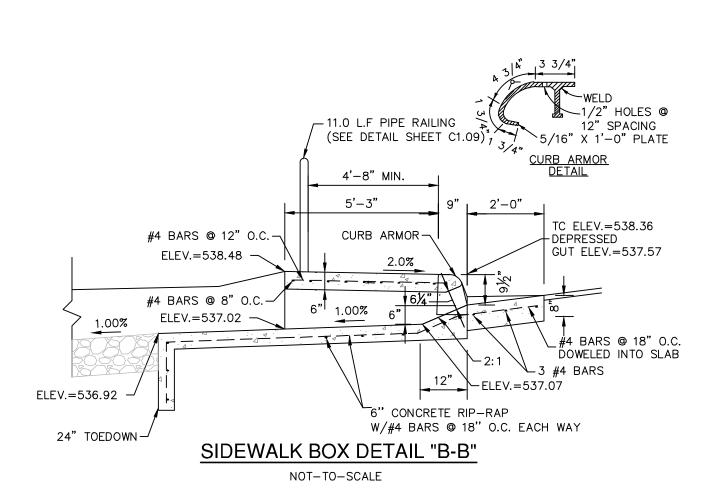
15' BUILDING SETBACK

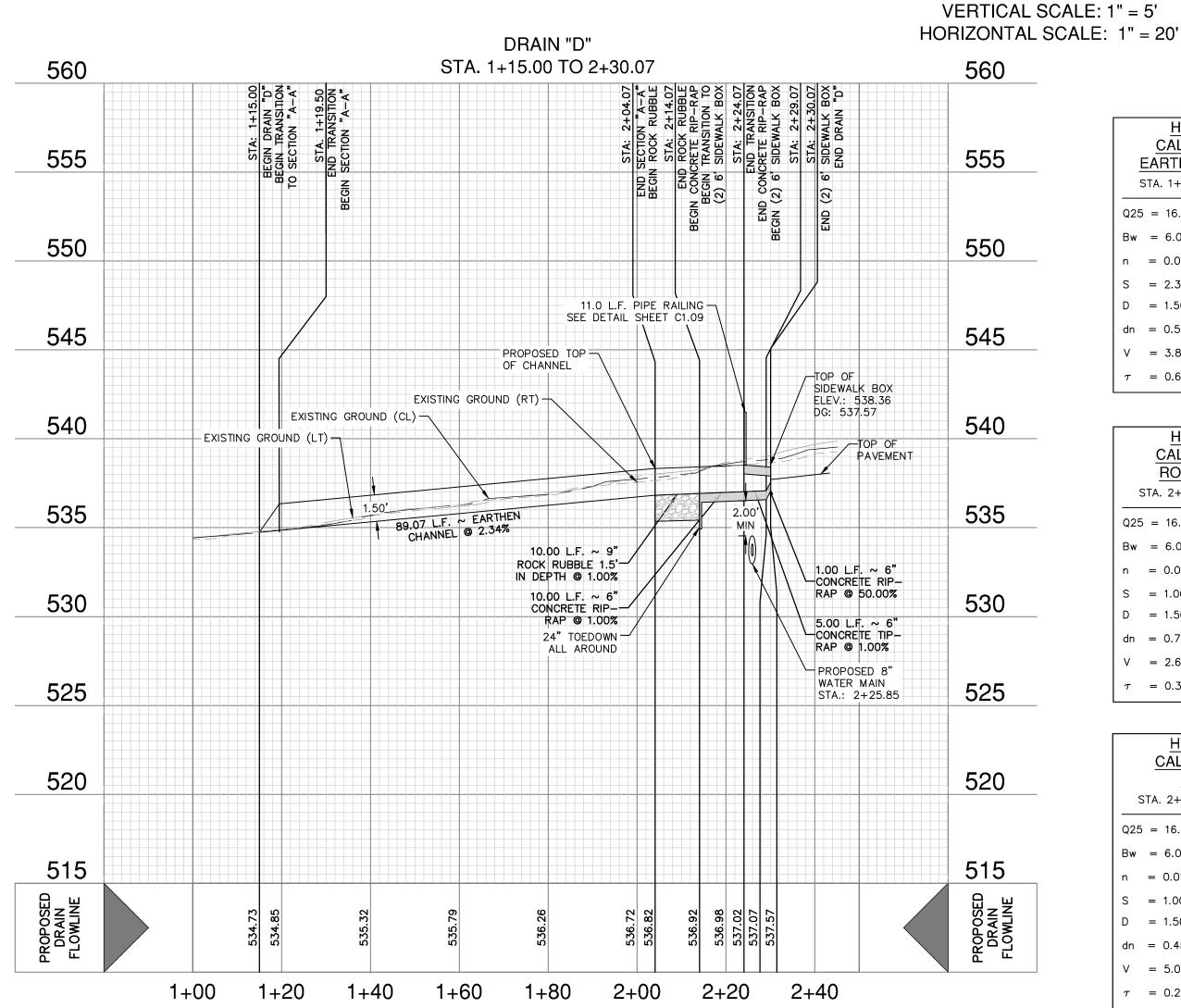
538.48 TW 537.02 BW

9" ROCK RUBBLE -

4.50'

1.5' IN DEPTH





BLOCK 193 Sign

CAUTION!!!

<u>└</u>6.00'−4.50'⁻

-VARIABLE WIDTH GETCTV EASEMENT

V = 5.08 FPS

EUGENE H. DAWSON II

PLAT NO. 23-1180021 12482-09 MAY 2024 DESIGNER CHECKED DW DRAWN JF

C1.04

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289.64 ACRES

DAVIS McCRARY PROPERTY TRUST

VOL. 5429, PG. 878 O.P.R.

- 100 YR ULTIMATE -

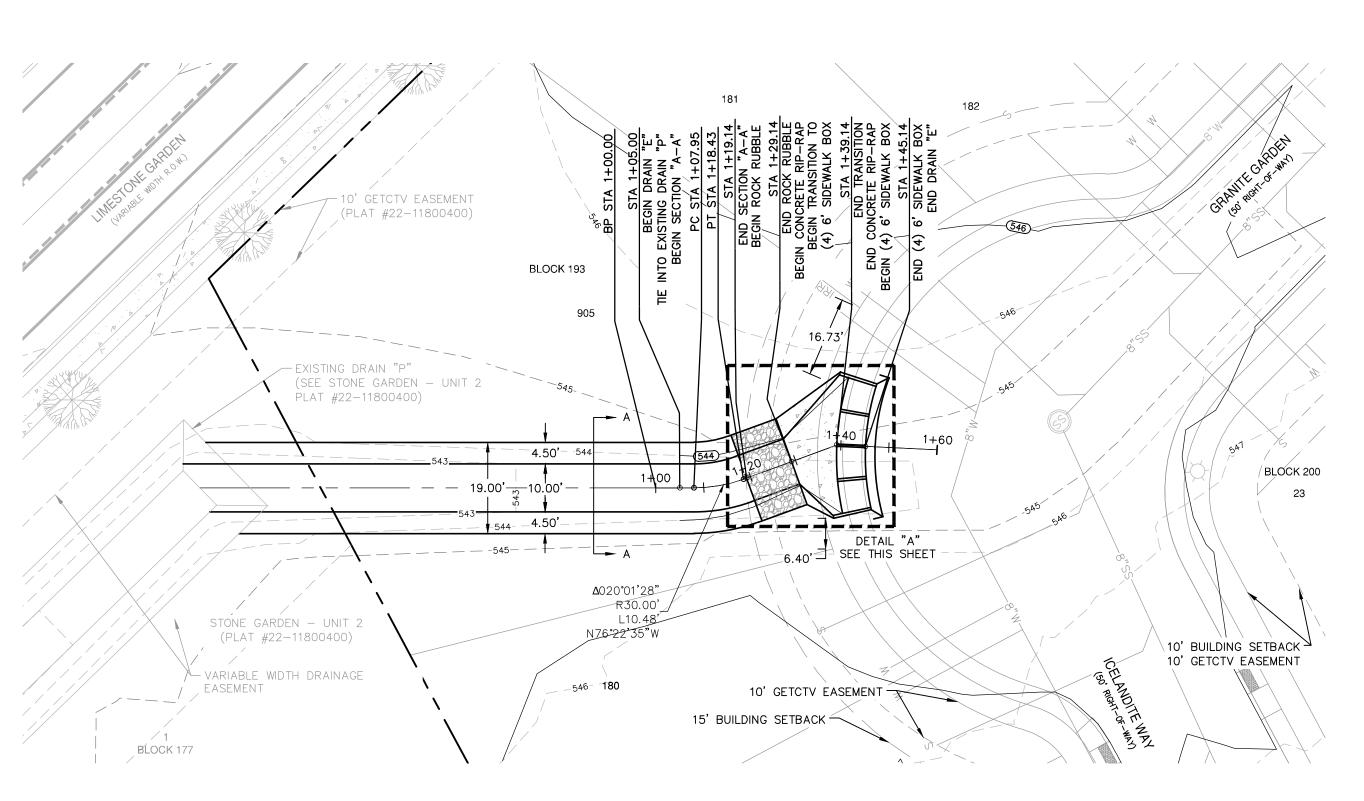
DEVELOPMENT & CLOMR FLOODPLAIN

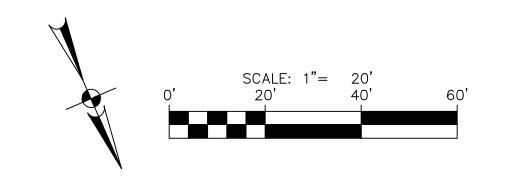
EFFECTIVE FEMA

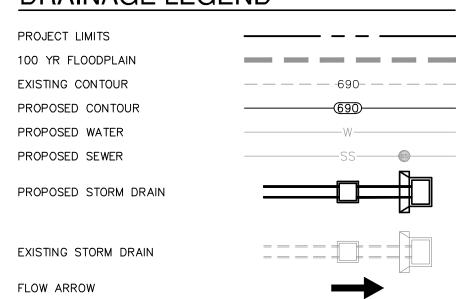
FLOODPLAIN

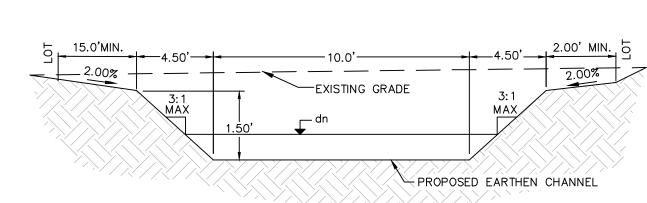
DESCRIBED IN (VOL. 3048, PAGE

708 O.P.R.)









SECTION "A-A" NOT-TO-SCALE STA. 1+05.00 - 1+19.14

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

HYDRAULIC
CALCULATIONS
EARTHEN CHANNEL
 STA. 1+05.00 TO 1+19.14
Q25 = 46.8 CFS

~		•
Bw	= 10.00'	
n	= 0.035	
S	= 1.54%	

D = 1.50'dn = 0.88'

V = 4.21 FPS $\tau = 0.69 \text{ LB/FT}^2$

HYDRAULIC **CALCULATIONS ROCK RUBBLE** STA. 1+19.14 TO 1+29.14

Q25 = 46.8 CFSBw = 10.00'n = 0.038

S = 2.90%D = 1.50'

dn = 0.78'

Bw = 10.00'

 $\tau = 0.26 \text{ LB/FT}^2$

HYDRAULIC CALCULATIONS-DRAIN "E" SIDEWALK BOX $Q_{25} = 46.8 \text{ CFS}$

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

46.8 CFS

 $L = \frac{40.6 \text{ G/S}}{(0.70) (0.52)\sqrt{2 (32.2) (0.52)}}$

L = 22.22 FT USE 4 \sim 6 FT SIDEWALK BOX

CHECK WITH WEIR FORMULA h = $\left(\frac{Q}{(CL)}\right)^{2/3} = \left(\frac{46.8}{(3.087)(24)}\right)^{2/3} = 0.74 \text{ FT.}$

h = 0.74 < 0.79 OK

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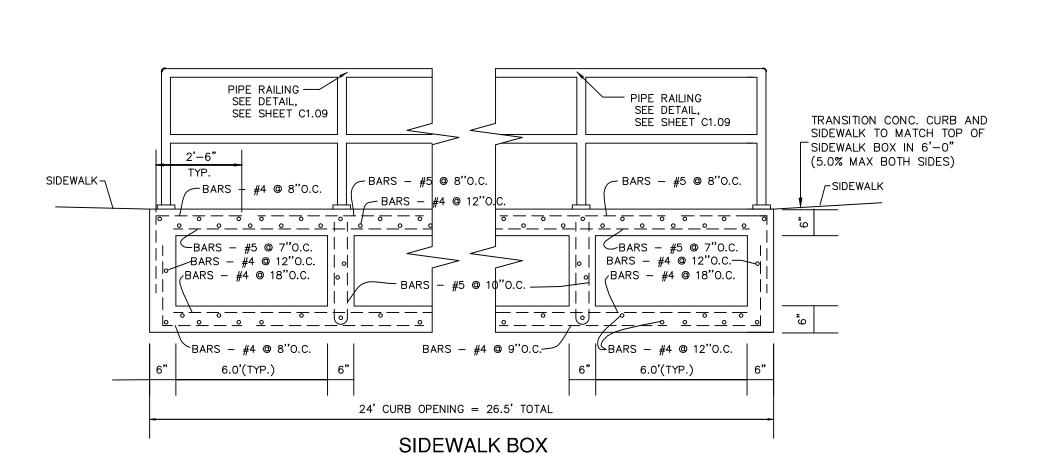
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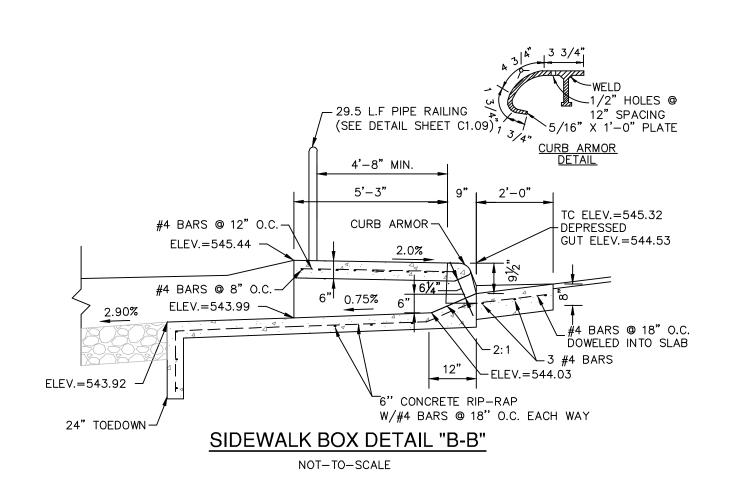
TRENCH EXCAVATION SAFETY PROTECTION

CONTRACTOR AND/ OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR STRUCTURAL DESIGN/ GEOTECHNICAL/ SAFETY/EQUIPMENT CONSULTANT IF ANY, SHALL REVIEW THESE PLANS AND ANY AVAILABLE GEOTECHNICAL INFORMATION AND THE ANTICIPATED INSTALLATION SITES WITHIN THE PROJECT WORK AREA IN ORDER TO IMPLEMENT CONTRACTOR'S TRENCH EXCAVATION SAFETY PROTECTION SYSTEMS, PROGRAMS AND /OR PROCEDURES FOR THE PROJECT DESCRIBED IN THE CONTRACT DOCUMENTS. THE CONTRACTOR'S IMPLEMENTATION OF THESE SYSTEMS, PROGRAMS AND/OR PROCEDURES SHALL PROVIDE FOR ADEQUATE TRENCH EXCAVATION SAFÉTY PROTECTION THAT COMPLY WITH AS A MINIMUM, OSHA STANDARDS FOR TRENCH EXCAVATIONS. SPECIFICALLY, CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR SAFETY CONSULTANT SHALL IMPLEMENT A TRENCH SAFETY PROGRAM IN ACCORDANCE WITH OSHA STANDARDS GOVERNING THE PRESENCE AND ACTIVITIES OF INDIVIDUALS WORKING IN AND AROUND TRENCH EXCAVATION.

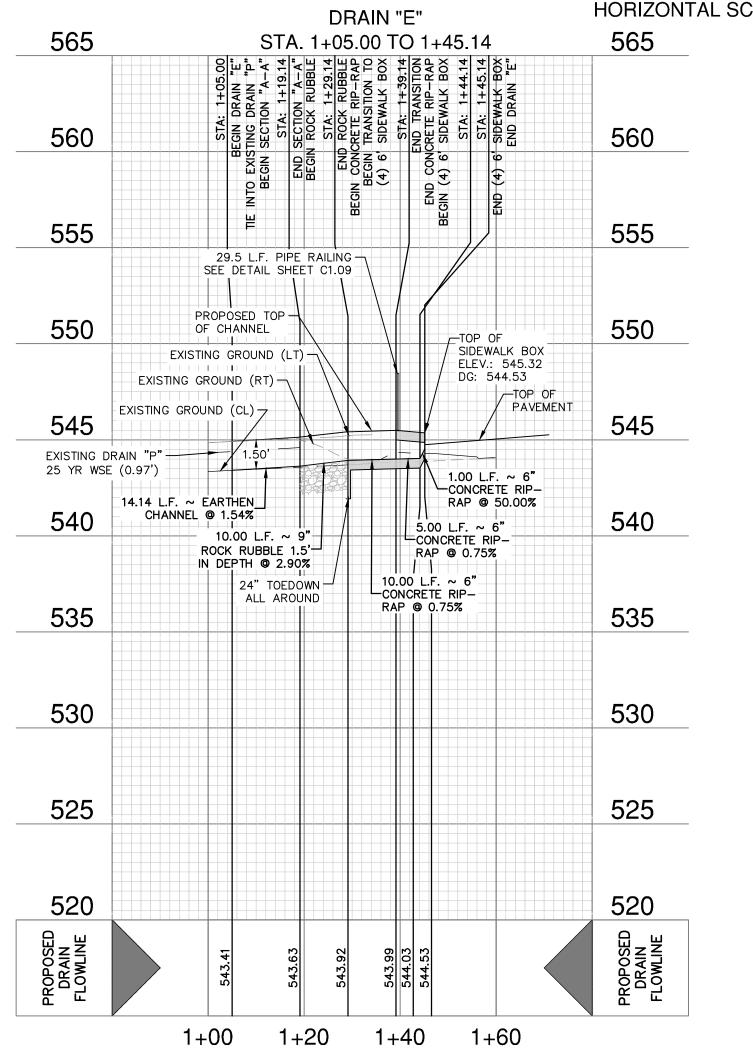
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NOT-TO-SCALE



V = 4.86 FPS $\tau = 1.17 \text{ LB/FT}^2$ HYDRAULIC **CALCULATIONS** RIP-RAP STA. 1+29.14 TO 1+39.14 Q25 = 46.8 CFSn = 0.015S = 0.75%D = 1.50'dn = 0.67'V = 5.82 FPS

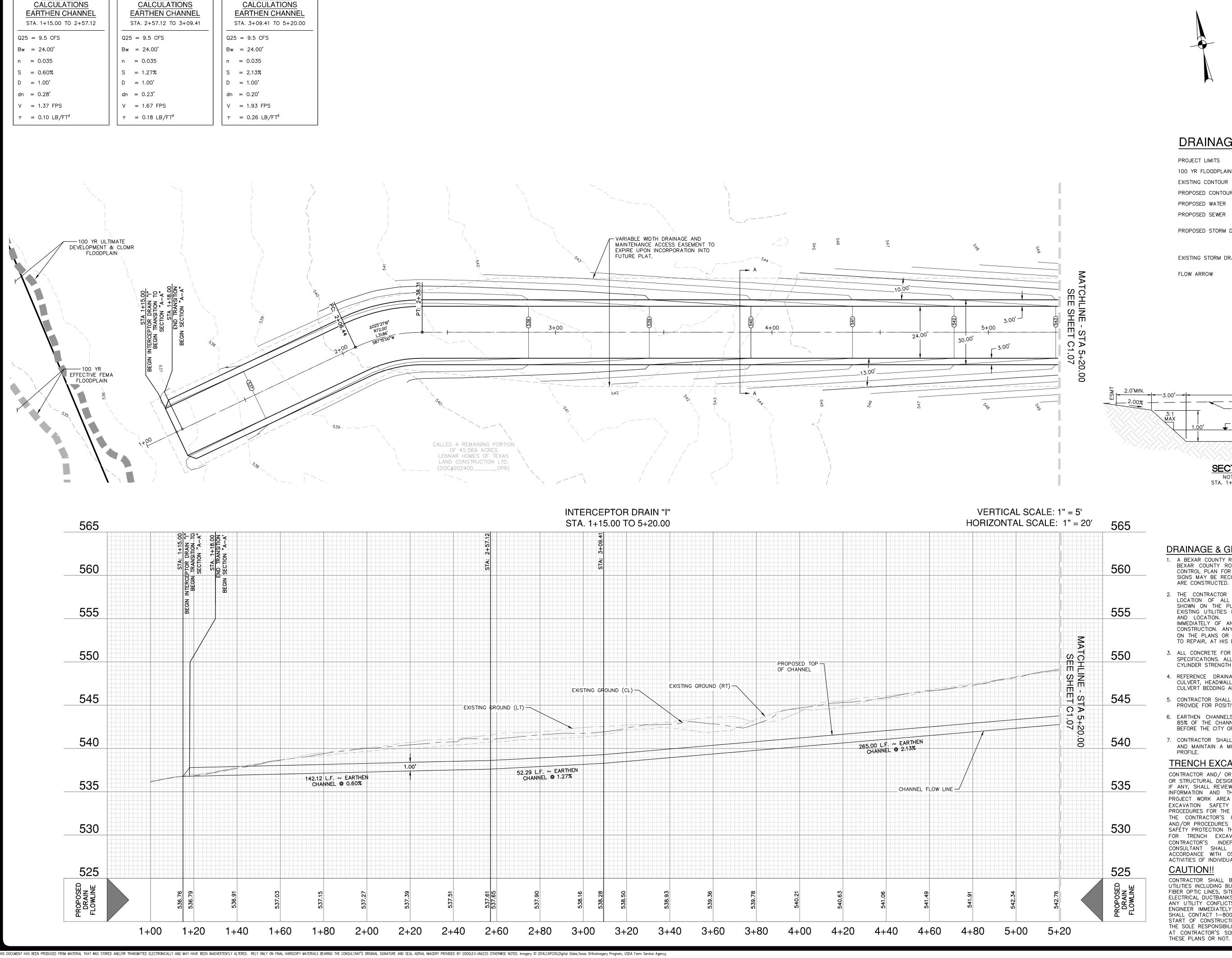
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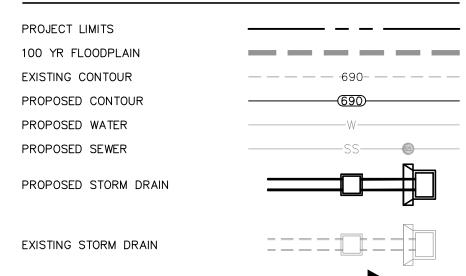
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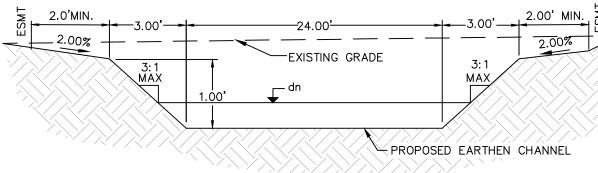
.AT NO. 23-1180021 JOB NO. 12482-09 MAY 2024 DESIGNER HECKED DW DRAWN JE

C1.05

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SECTION "A-A" STA. 1+15.00 - 8+24.71

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 SAFÉTY PROTECTION THAT COMPLY WITH AS A MINIMUM, OSHA STANDARDS FOR TRENCH EXCAVATIONS. SPECIFICALLY, CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR SAFETY CONSULTANT SHALL IMPLEMENT A TRENCH SAFETY PROGRAM IN ACCORDANCE WITH OSHA STANDARDS GOVERNING THE PRESENCE AND ACTIVITIES OF INDIVIDUALS WORKING IN AND AROUND TRENCH EXCAVATION.

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PLAT NO. 23-11800210 JOB NO. 12482-09 MAY 2024 DESIGNER CHECKED DW DRAWN JR

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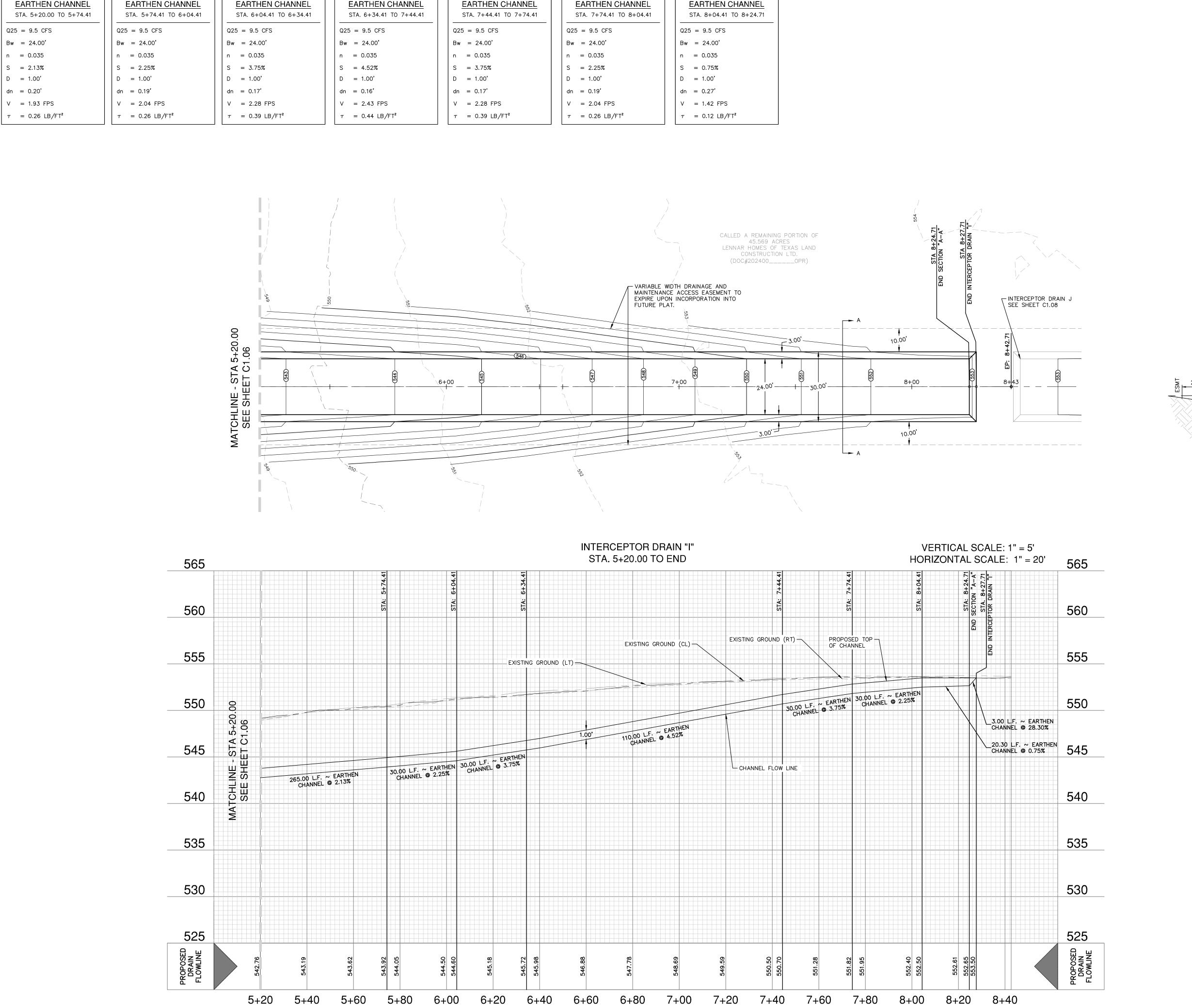
EUGENE H. DAWSON II

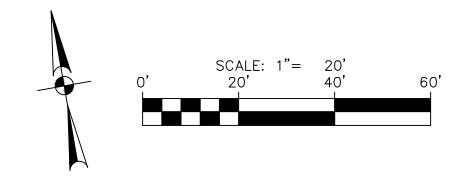
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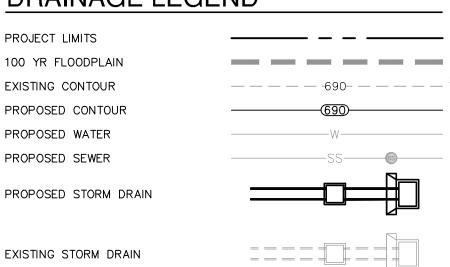
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HYDRAULIC





FLOW ARROW



EUGENE H. DAWSON III

APE-DAW

DRAINAGE & GRADING NOTES:

-EXISTING GRADE

SECTION "A-A" NOT-TO-SCALE STA. 1+15.00 - 8+24.71

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PROPOSED EARTHEN CHANNEL

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- NO. 23-11800210 JOB NO. 12482-09 MAY 2024 DESIGNER HECKED DW DRAWN JR

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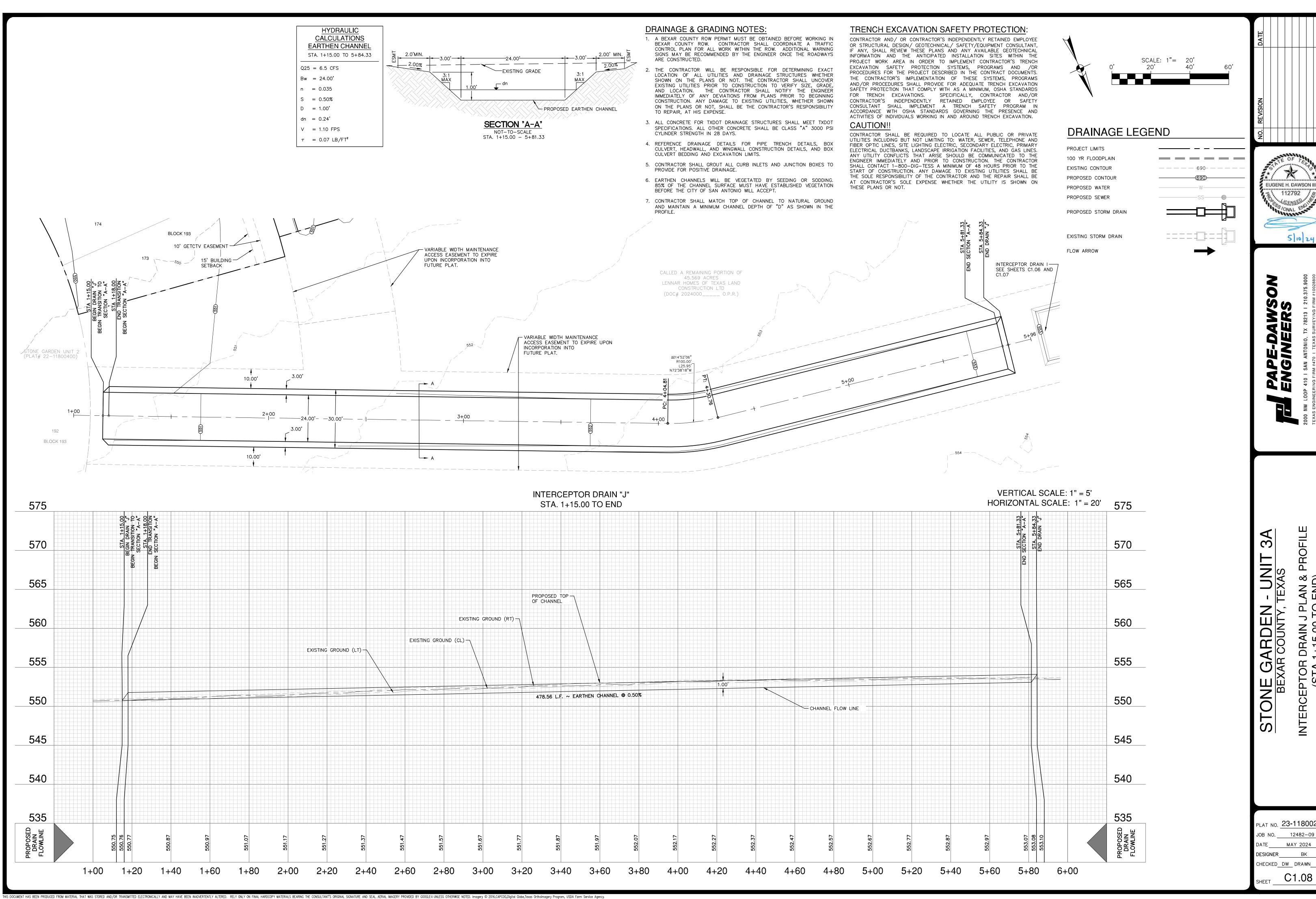
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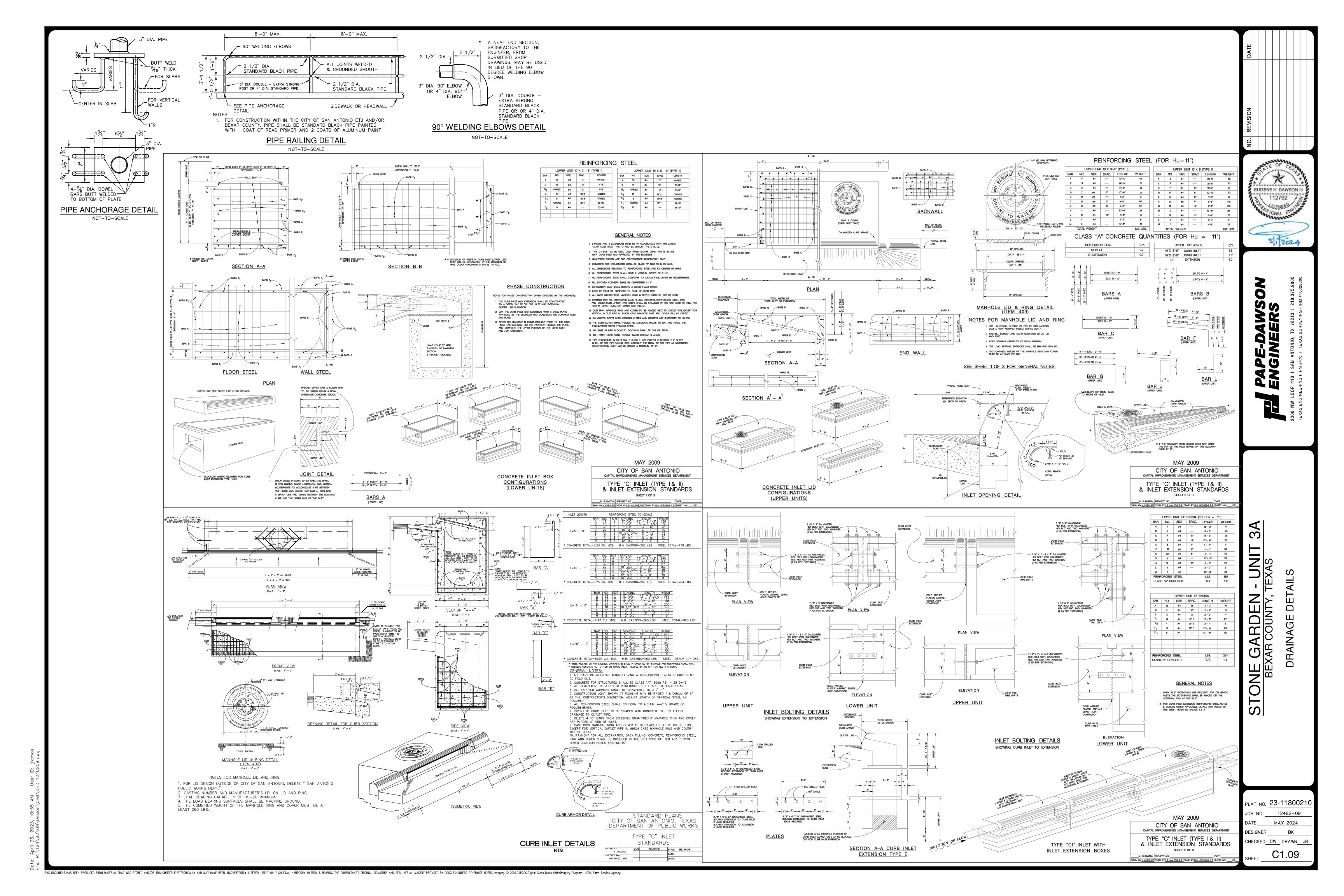
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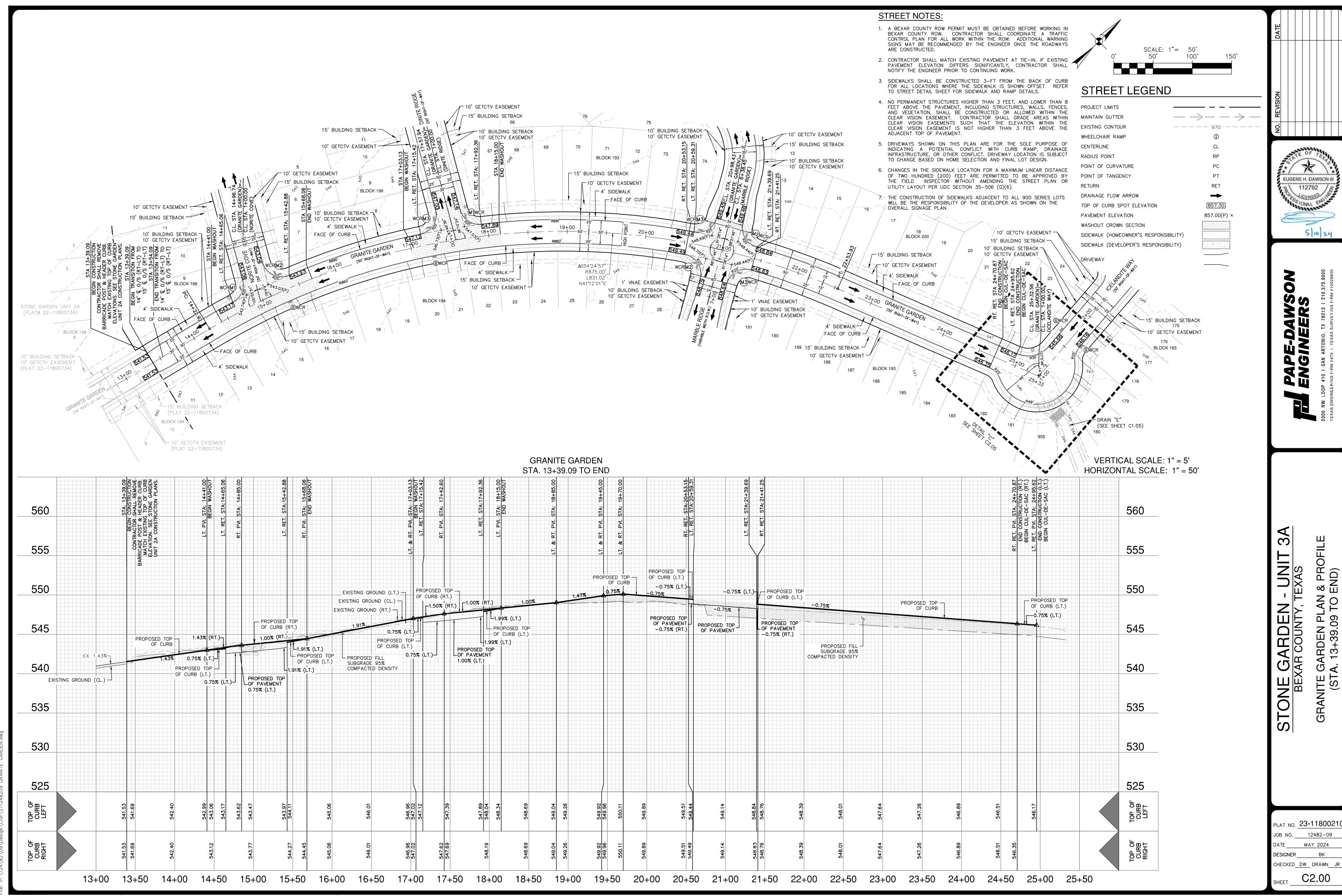


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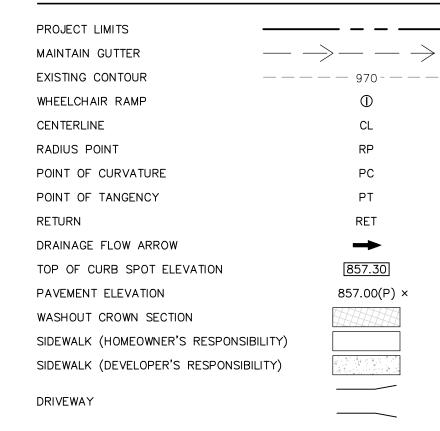
> PLAT NO. 23-1180021 JOB NO. 12482-09

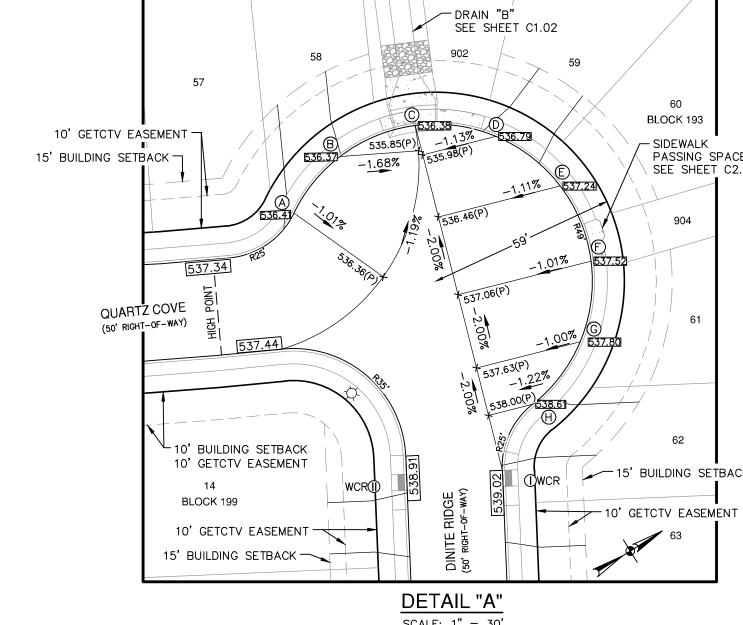
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SIDEWALK PASSING SPACE SEE SHEET C2.09 WCR 15' BUILDING SETBACK SCALE: 1" = 30'

STREET NOTES:

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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.

UNIT

ONE GARDEN
BEXAR COUNTY,

PROI END)

ARTZ (STA.

EUGENE H. DAWSON II

PLAT NO. 23-11800210 OB NO. 12482-09 MAY 2024 DESIGNER HECKED DW DRAWN JR C2.01

QUARTZ COVE VERTICAL SCALE: 1" = 5' STA. 14+41.31 TO END HORIZONTAL SCALE: 1" = 50' 550 550 545 545 540 540 — PROPOSED TOP -EXISTING GROUND (LT.) OF CURB (RT.) PROPOSED TOP -EXISTING GROUND (CL.) OF CURB EXISTING GROUND (RT.) $\overline{}$ PROPOSED TOP PROPOSED TOP OF CURB (RT.) └0.75% (RT.) 535 PROPOSED TOP OF CURB (RT.) 535 0.75% (RT.) 3.75% OF CURB PROPOSED TOP —-0.75% (RT.) 2.25%¬ OF CURB (LT.) 0.75% -0.75% EX. 2.25%─┐ EXISTING GROUND (CL.) PROPOSED TOP PROPOSED TOP OF CURB (LT.) OF CURB (LT.) 530 PROPOSEC FILL 530 1.94% (LT.) SUBGRADE 95% −1.94% (LT.) COMPACTED DENSITY −0.75% (LT.) PROPOSED TOP LOF PAVEMENT PROPOSED TOP 0.75% (RT.) OF PAVEMENT --0.75% (RT.) └0.75% (LT.) 525 525 520 520 515

-014°06'23" _R1150.00'

`N30°29'38"E ∕

15' BUILDING SETBACK

10' GETCTV EASEMENT -

4' SIDEWALK FACE OF CURB

10' BUILDING SETBACK _10' GETCTV EASEMENT

√ 16' SANITARY

SEWER EASEMENT

— SIDEWALK PASSING SPACE

15' BUILDING SETBACK

SEE DETAIL "A"

THIS SHEET

10' GETCTV EASEMENT

537.30

15' BUILDING SETBACK -

SEE SHEET C2.09

L283.13'

QUARTZ COVE (50' RIGHT-OF-WAY)

4' SIDEWALK →

10' GETCTV EASEMENT

16+00 16+50 17+00 17+50 18+00 14+00 14+50 15+00 15+50 IS 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 Orthormagery Program, USDA Farm Service Agency.

10' GETCTV EASEMENT -

FACE OF CURB — 4' SIDEWALK -⊔002°52'58"

_R200.00'

N33°36'40"E

10' BUILDING SETBACK 10' GETCTV EASEMENT

15' BUILDING SETBACK

BLOCK 198

10' GETCTV EASEMENT

_L10.06'

15' BUILDING SETBACK -

10' BUILDING SETBACK

10' GETCTV EASEMENT

(PLAT 22-11800734)

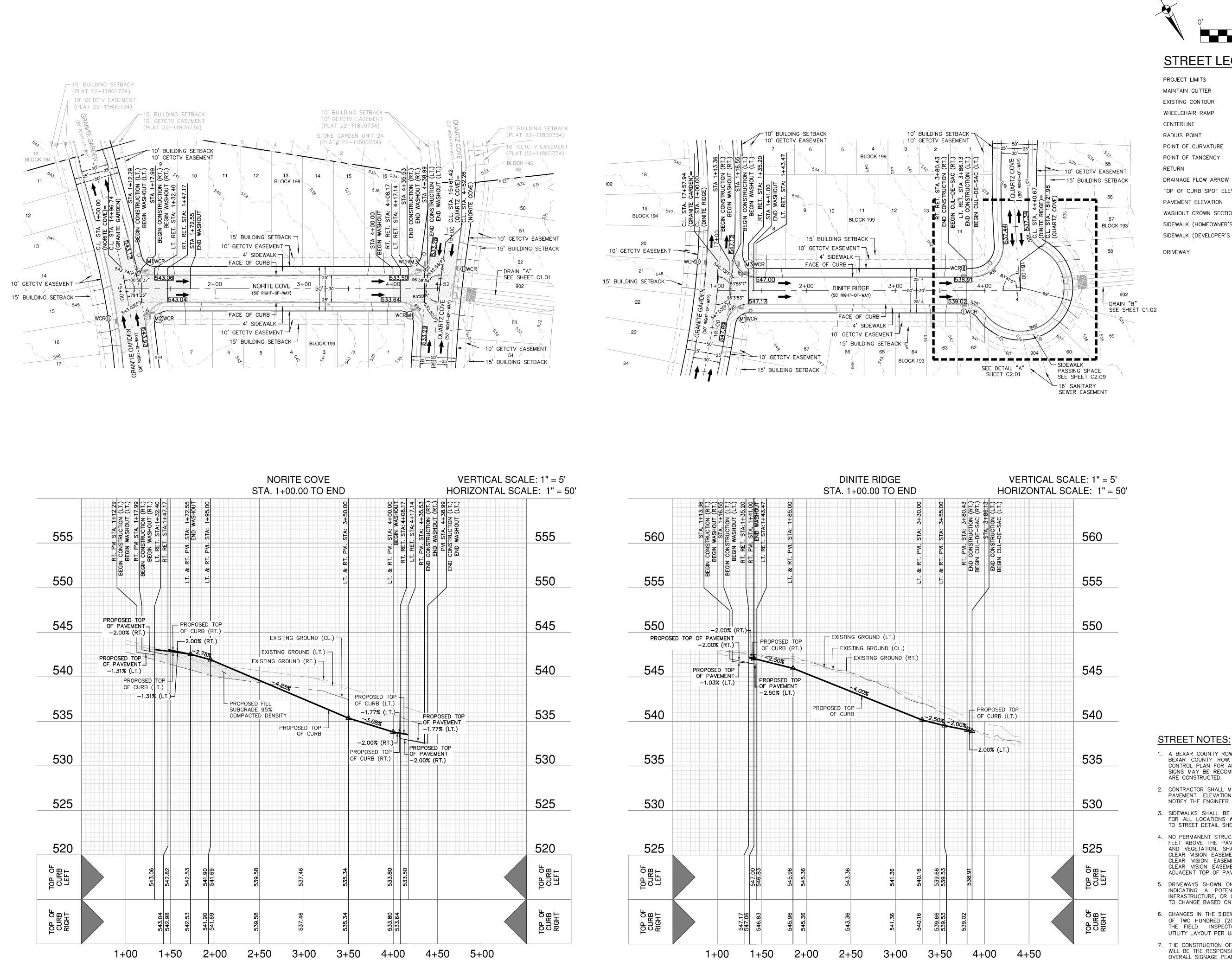
STONE GARDEN UNIT 2A (PLAT# 22-11800734)

BLOCK 198

(PLAT 22-11800734)

10' GETCTV EASEMENT -

(PLAT 22-11800734)





SCALE: 1"= 50'

STREET LEGEND

MAINTAIN GUTTER EXISTING CONTOUR WHEELCHAIR RAMP POINT OF CURVATURE POINT OF TANGENCY RET DRAINAGE FLOW ARROW TOP OF CURB SPOT ELEVATION 857.00(P) × PAVEMENT ELEVATION WASHOUT CROWN SECTION SIDEWALK (HOMEOWNER'S RESPONSIBILITY) SIDEWALK (DEVELOPER'S RESPONSIBILITY)

EUGENE H. DAWSON III

3

ARDEN R COUNTY,

E PLAN END)

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A. 1+00.

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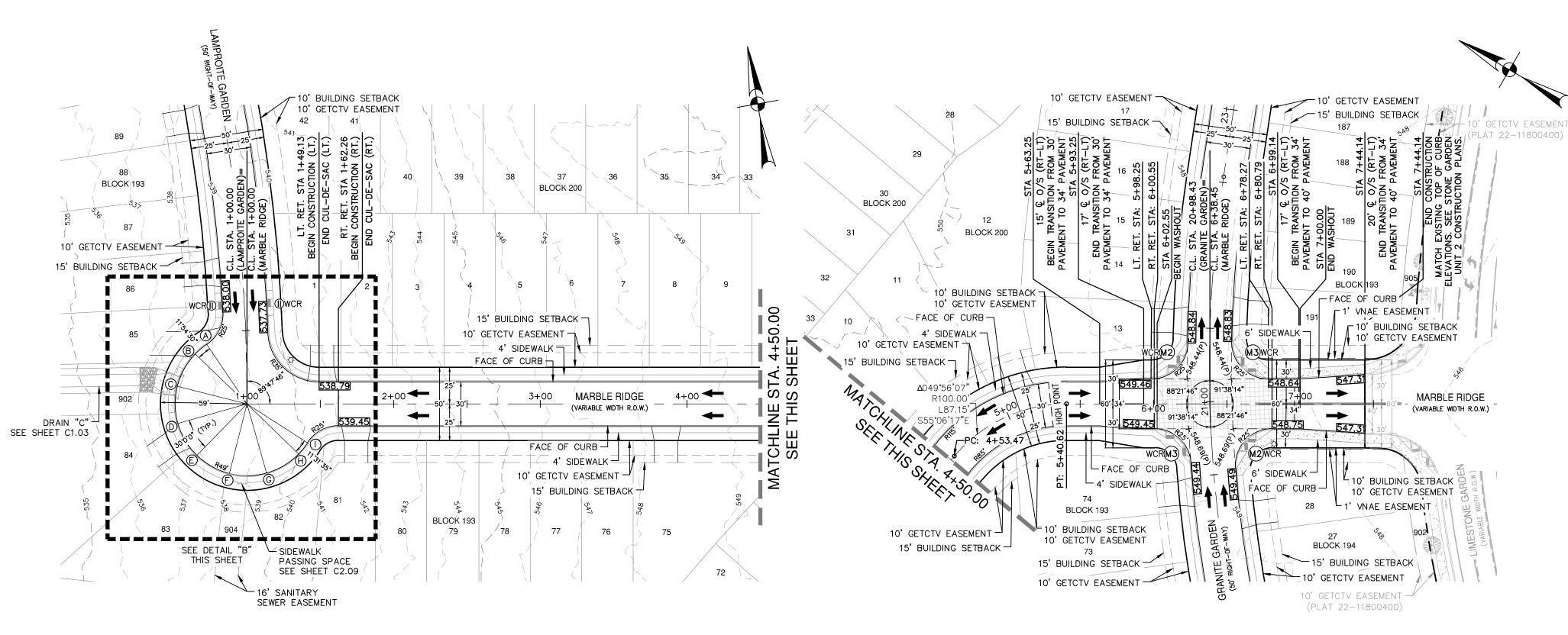
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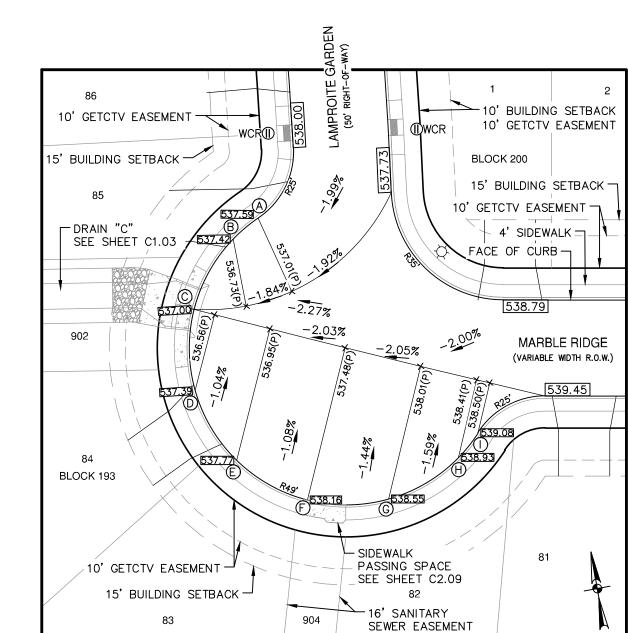
PLAT NO. 23-11800210 OB NO. 12482-09 MAY 2024 DESIGNER

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HECKED DW DRAWN JR

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PROJECT LIMITS

MAINTAIN GUTTER

EXISTING CONTOUR WHEELCHAIR RAMP

POINT OF CURVATURE POINT OF TANGENCY

DRAINAGE FLOW ARROW

PAVEMENT ELEVATION

WASHOUT CROWN SECTION

TOP OF CURB SPOT ELEVATION

SIDEWALK (HOMEOWNER'S RESPONSIBILITY)

SIDEWALK (DEVELOPER'S RESPONSIBILITY)

CENTERLINE RADIUS POINT

RETURN

DRIVEWAY

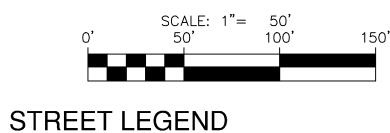
DETAIL "B" SCALE: 1" = 30'

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TO STREET DETAIL SHEET FOR SIDEWALK AND RAMP DETAILS.

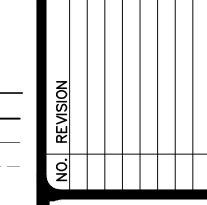
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857.00(P) ×





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PLAT NO. 23-11800210 JOB NO. 12482-09 MAY 2024 DESIGNER

HECKED DW DRAWN JR C2.03

530 1+50 2+00 2+50 3+00 3+50 4+00 4+50 5+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.

5.00% (LT.)

PROPOSED TOP OF CURB (LT.)

PROPOSED TOP —

OF CURB

560

555

550

545

540

535

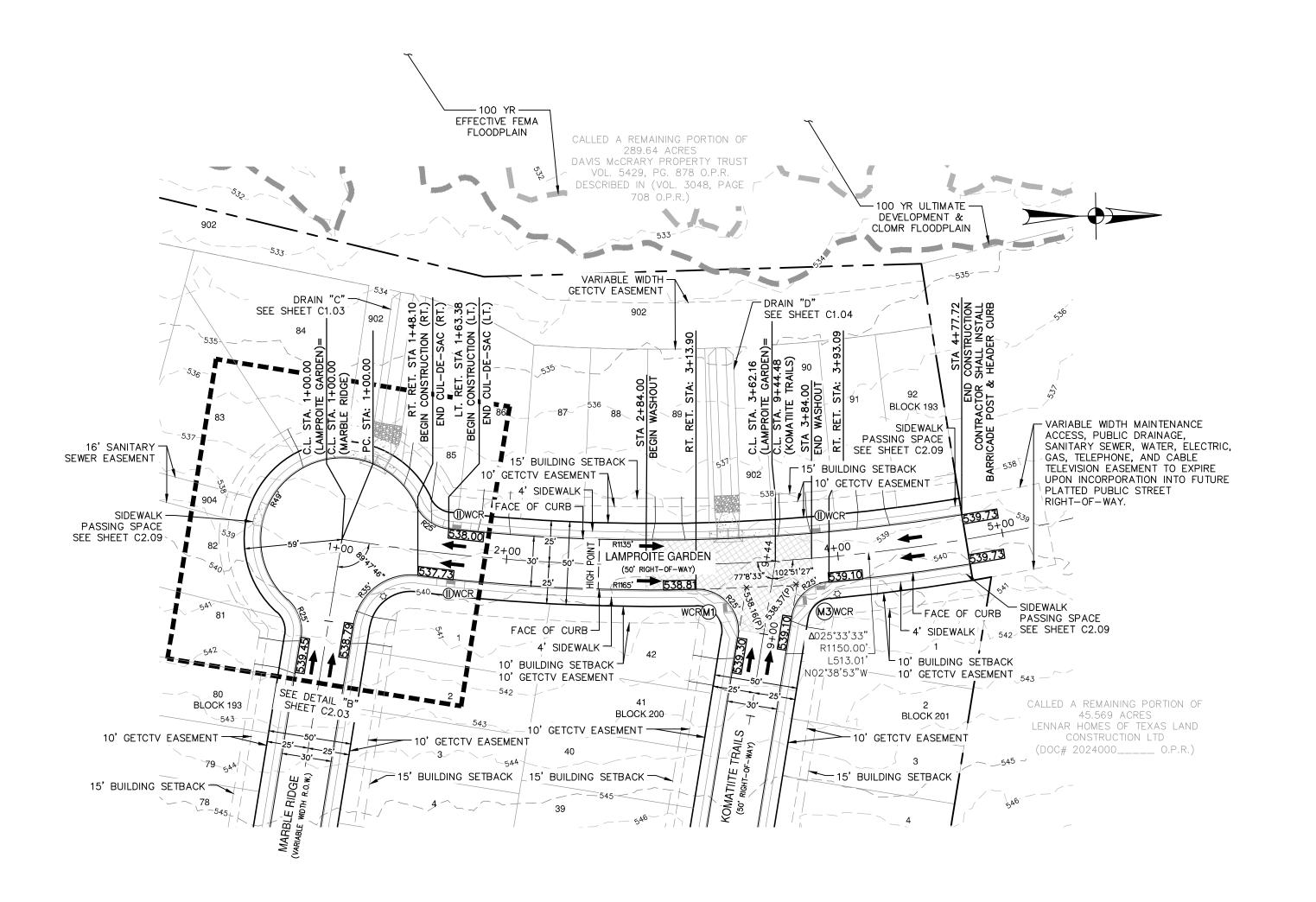
VERTICAL SCALE: 1" = 5' HORIZONTAL SCALE: 1" = 50' 560 555 PROPOSED TOP OF PAVEMENT -1.83% (RT.) |-2.00% (RT.)-−0.75% (RT.)—1.90% _-2.00% (RT.) 550 PROPOSED TOF \pm OF CURB (RT.) −0.75% (LT.)-PROPOSED TOP -2.00% (LT.)-OF CURB (LT.) 545 PROPOSED FILL --1.89% SUBGRADE 95% PROPOSED TOP -1.50% (LT.) COMPACTED DENSITY OF PAVEMENT -1.50% (LT.)-1.90% (LT.)-PROPOSED FILL SUBGRADE 95% 540 COMPACTED DENSITY 535

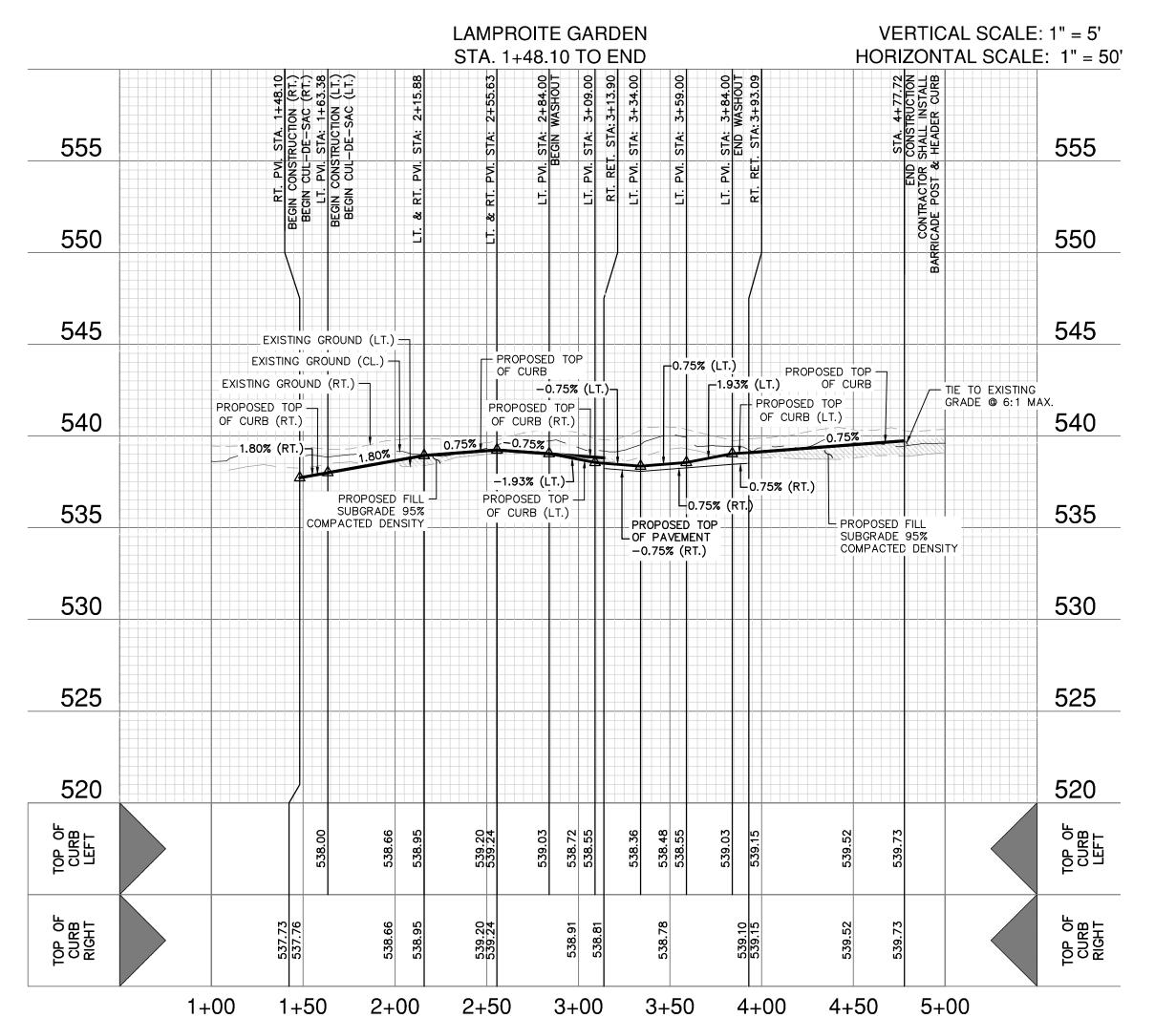
530

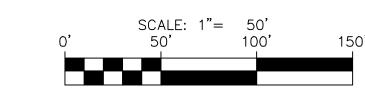
MARBLE RIDGE STA. 1+49.13 TO 7+44.14

EXISTING GROUND (CL.) EXISTING GROUND (LT.) -EXISTING GROUND (RT.) PROPOSED TOP

5+50 6+00 6+50 7+00



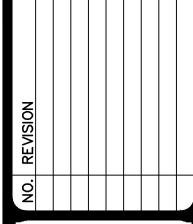


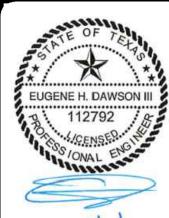


STREET LEGEND

DRIVEWAY

PROJECT LIMITS	
MAINTAIN GUTTER	\longrightarrow — –
EXISTING CONTOUR $$	——— 970 - ——
WHEELCHAIR RAMP	0
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)	





3 E GARDEN EXAR COUNTY, 1 NE BE

PLAN & PF TO END)

AMPROITE GARDEN (STA. 1+48.10

STREET NOTES:

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- 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.
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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.

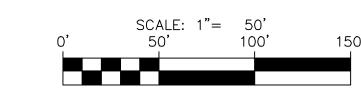
PLAT NO. 23-11800210 JOB NO. 12482-09 MAY 2024

C2.04

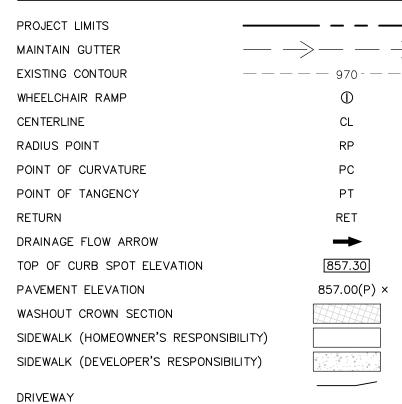
CHECKED DW DRAWN JR

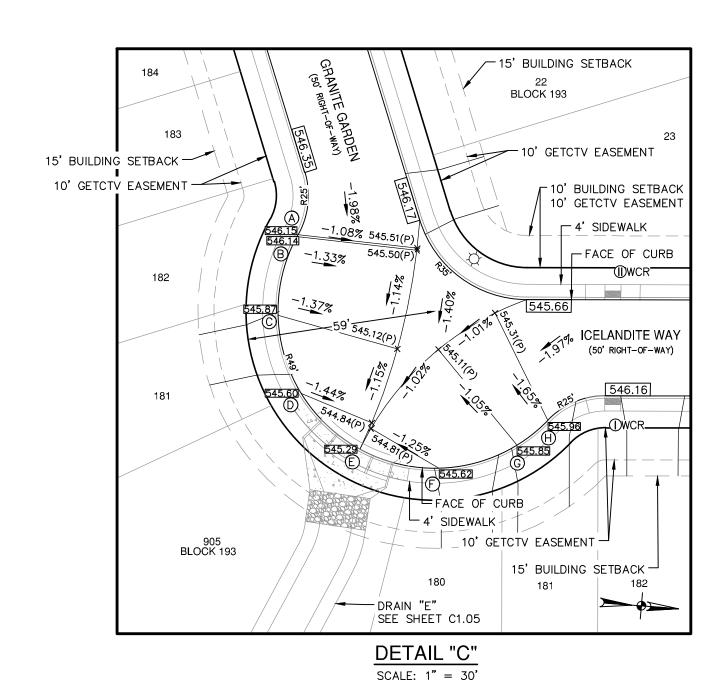
DESIGNER

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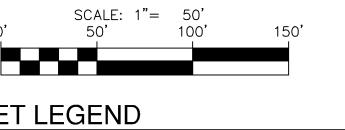
STREET LEGEND





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 \mathfrak{C} & PR(END)

PLAT NO. 23-11800210 JOB NO. 12482-09 MAY 2024 DESIGNER

C2.05

HECKED DW DRAWN JR

PLATTED PUBLIC STREET RIGHT-OF-WAY. SEE DETAIL "C" SEE SHEET C2.09 STONE GARDEN UNIT 2 BLOCK 177 (PLAT# 22-11800400) - DRAIN "P" EASEMENT TO EXPIRE UPON (SEE STONE GARDEN - UNIT 2 INCORPORATION INTO FUTURE PLAT CONSTRUCTION PLANS) (PLAT 22-11800400) VERTICAL SCALE: 1" = 5' ICELANDITE WAY STA. 1+36.93 TO END HORIZONTAL SCALE: 1" = 50" 565 565 560 560 555 555 2.00% (RT.)-TIE TO EXISTING PROPOSED TOP GRADE @ 6:1 MAX. OF CURB (RT.) 3.50% (RT.)-550 PROPOSED TOP _____ 3.69% (RT.)___ OF CURB EXISTING GROUND (LT.) PROPOSED TOP PROPOSED TOP EXISTING GROUND (CL.) OF CURB (LT.) LOF PAVEMENT EXISTING GROUND (RT.) 3.50% (LT.) 545 PROPOSED FILL 545 SUBGRADE 95% COMPACTED DENSITY /2.00% (LT.)→ 540 540 535 535

2+50

3+00

1+50

2+00

15' BUILDING SETBACK

→ DRAIN "E"

(SEE SHEET C1.05)

15' BUILDING SETBACK -

10' GETCTV EASEMENT

(PLAT 22-11800400)

10' GETCTV EASEMENT -

BLOCK 193

530

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GETCTV EASEMENT 🏺

SE SE SEMENT - 10, GELCTA EVENENT -

T. RET. STA 1+36
CONSTRUCTION (
CONS

L, 10, BUILDING SETBACK

10' GETCTV EASEMENT

23

10' GETCTV EASEMENT -

FACE OF CURB -

15' BUILDING SETBACK -

4' SIDEWALK 🗇

(50' RIGHT-OF-WAY)

- \Box 4' SIDEWALK =

`10' GETCTV EASEMENT ^{__/}

 $_{ullet}$ 15' BUILDING SETBACK ullet

_10' BUILDING SETBACK 🔫

- 15' BUILDING SETBACK

CALLED A REMAINING PORTION OF

45.569 ACRES

LENNAR HOMES OF TEXAS LAND

CONSTRUCTION LTD

(DOC# 2024000____ O.P.R.)

- VARIABLE WIDTH MAINTENANCE ACCESS,

PUBLIC DRAINAGE, SANITARY SEWER, WATER, ELECTRIC, GAS, TELEPHONE, AND

CABLE TELEVISION EASEMENT TO EXPIRE

UPON INCORPORATION INTO FUTURE

530

PASSING SPACE SEE SHEET C2.09

10' GETCTV EASEMENT

// 10' BUILDING SETBACK

10' GETCTV EASEMENT

__ 15' BUILDING SETBACK

/ 4' SIDEWALK

└PC: 2+83.90 **─**

∆053°32'24'

_ L313.04'

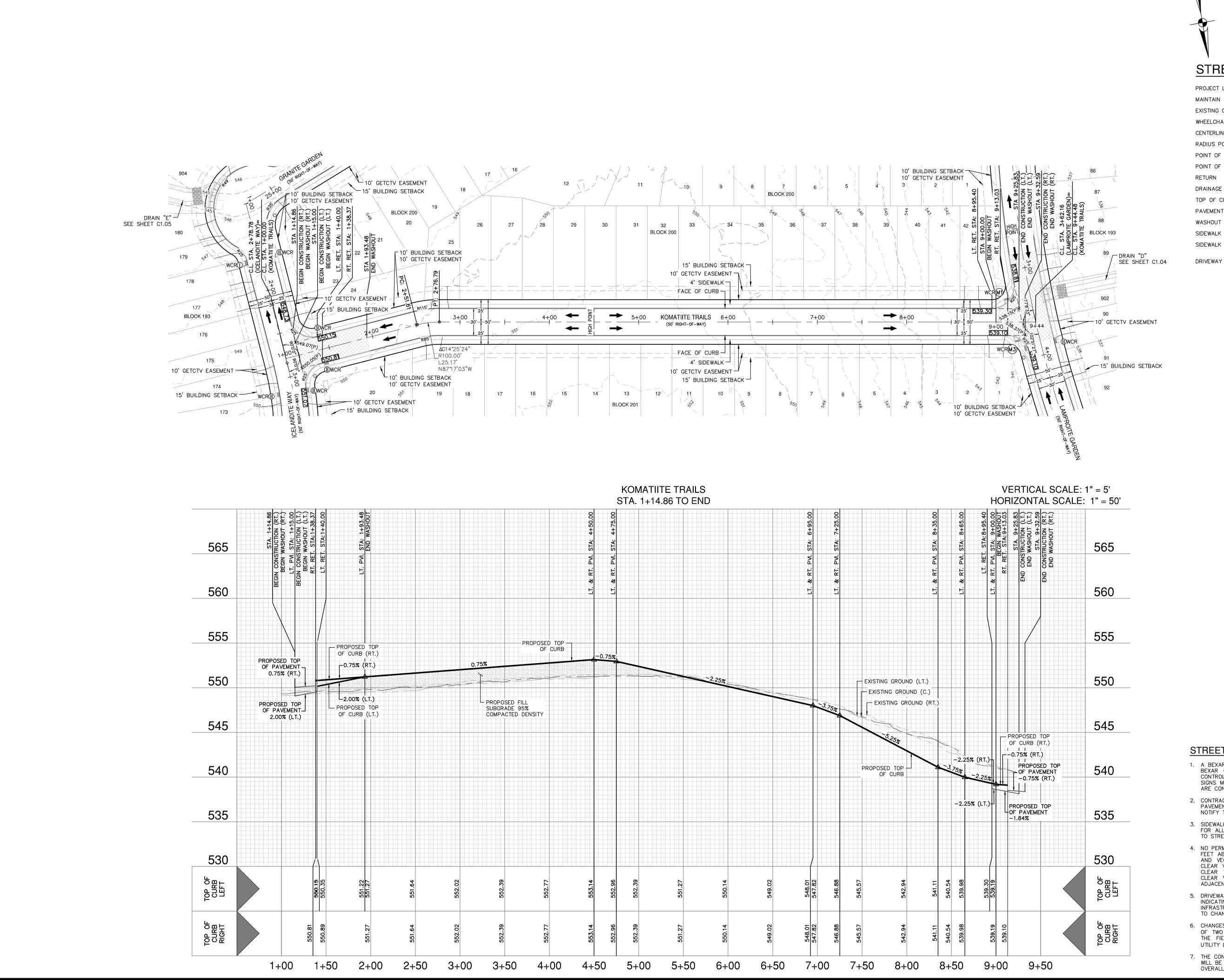
PASSING SPACE

N22°16'27"E

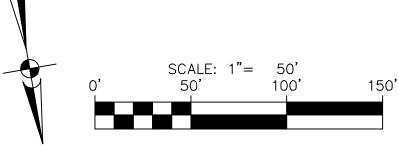
SIDEWALK —

↓ 10' GETCTV EASEMENT

FACE OF CURB



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STREET LEGEND

PROJECT LIMITS MAINTAIN GUTTER EXISTING CONTOUR WHEELCHAIR RAMP CENTERLINE RADIUS POINT POINT OF CURVATURE POINT OF TANGENCY RETURN DRAINAGE FLOW ARROW 857.30 TOP OF CURB SPOT ELEVATION 857.00(P) × PAVEMENT ELEVATION WASHOUT CROWN SECTION SIDEWALK (HOMEOWNER'S RESPONSIBILITY) SIDEWALK (DEVELOPER'S RESPONSIBILITY)

EUGENE H. DAWSON II

3

S PLAN & PR 1.86 TO END)

STREET NOTES:

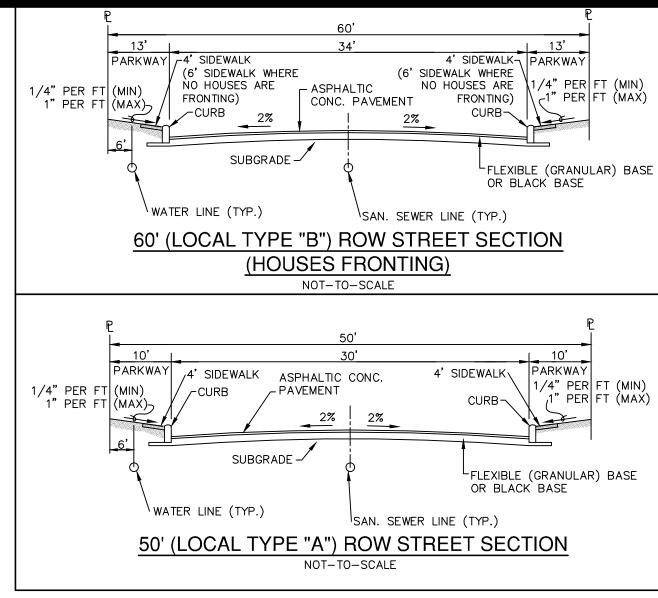
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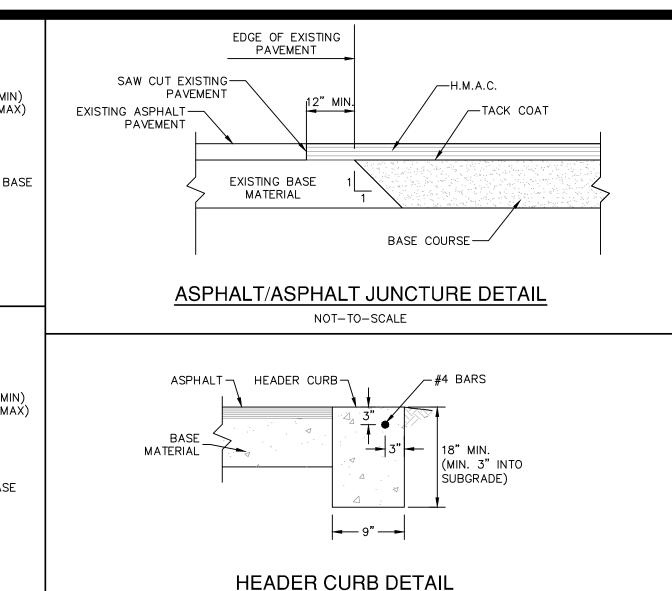
PLAT NO. 23-11800210 JOB NO. 12482-09 MAY 2024 DESIGNER

C2.06

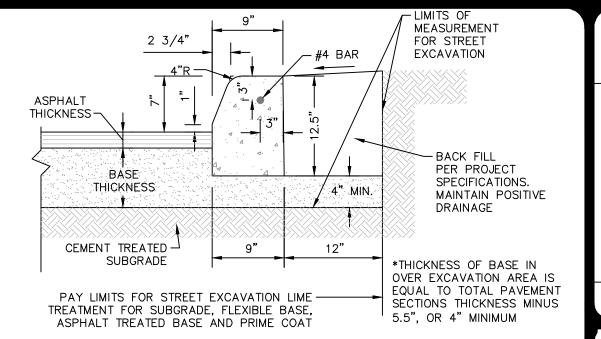
HECKED DW DRAWN JR

			PAVEMEN	T SECTIOI	N DETAIL				
STREET NAME	STATION	TYPE "D" HMAC	TYPE "B" HMAC	GANULAR BASE COURSE	CEMENT TREATED SUBGRADE	GEOGRID (TENSAR TRIAX TX5)	CBR	STRUCTURAL	NUMBER
GRANITE GARDEN	13+39.09 TO END (LOCAL A)	2.0"	-	10"	6"	NO	4.0	2.0(.44) = 0.88 10(.14) = 1.40	2.28
QUARTZ COVE	14+41.31 TO END (LOCAL A)	2.0"	-	10"	6"	NO	4.0	2.0(.44) = 0.88 10(.14) = 1.40	2.28
NORITE COVE	1+00.00 TO END (LOCAL A)	2.0"	-	10"	6"	NO	4.0	2.0(.44) = 0.88 10(.14) = 1.40	2.28
DINITE RIDGE	1+00.00 TO END (LOCAL A)	2.0"	_	10"	6"	NO	4.0	2.0(.44) = 0.88 10(.14) = 1.40	2.28
MARBLE RIDGE	1+49.13 TO 5+93.25 (LOCAL A)	2.0"	_	10"	6"	NO	4.0	2.0(.44) = 0.88 10(.14) = 1.40	2.28
MARBLE RIDGE	5+93.25 TO 7+44.14 (LOCAL B)	3.0"	6"	8"	6"	NO	4.0	3.0(.44) = 1.32 6(.38) = 2.28 8(.14) = 1.12	4.72
LAMPROITE GARDEN	1+48.10 TO END (LOCAL A)	2.0"	_	10"	6"	NO	4.0	2.0(.44) = 0.88 10(.14) = 1.40	2.28
ICELANDITE WAY	1+36.93 TO END (LOCAL A)	2.0"	-	10"	6"	NO	4.0	3.0(.44) = 1.32 10(.14) = 1.40	2.28
KOMATIITE TRAILS	1+14.86 TO END (LOCAL A)	2.0"	-	10"	6"	NO	4.0	2.0(.44) = 0.88 10(.14) = 1.40	2.28

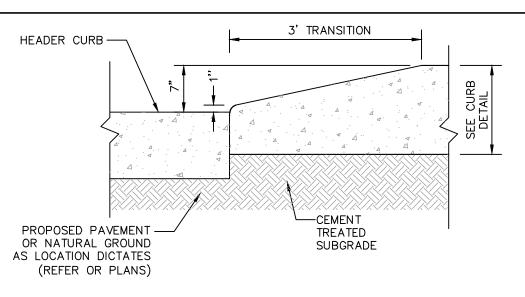




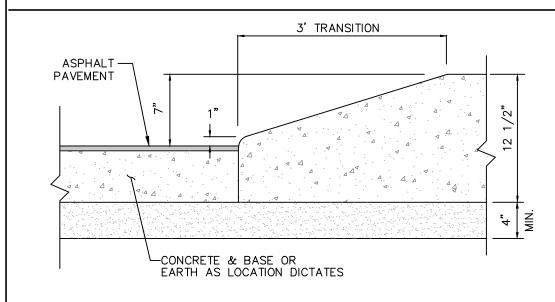
NOT-TO-SCALE



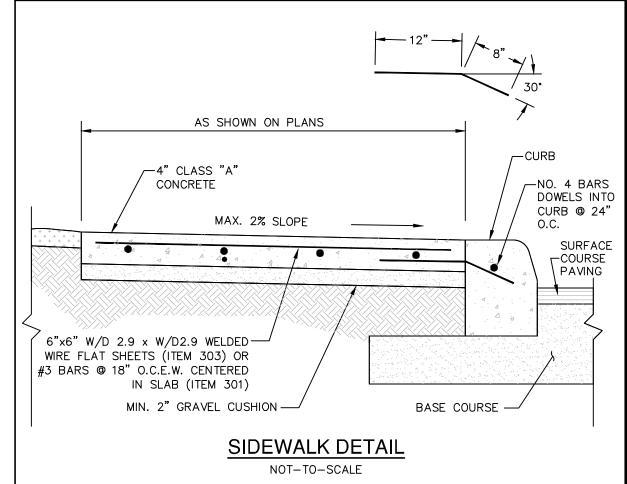
CONCRETE CURB DETAIL NOT-TO-SCALE

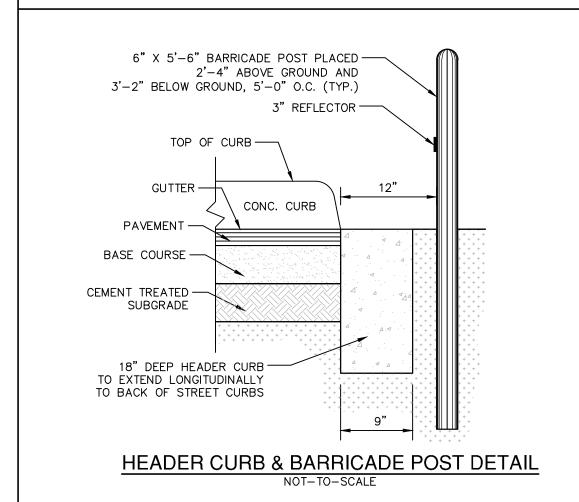


CURB TRANSITION DETAIL (FROM HEADER CURB TO STANDARD CURB NOT-TO-SCALE



CURB TRANSITION DETAIL (FROM PAVEMENT TO STANDARD CURB)





EUGENE H. DAWSON III

112792

SONAL ENGINEERS

5 10 24

FAFE-DAMSON
ENGINEERS
410 I SAN ANTONIO, TX 78213 I 210.375.9000

PAI PAI ENC

FONE GARDEN - UNIT 3A BEXAR COUNTY, TEXAS

PLAT NO. 23-11800210

JOB NO. 12482-09

DATE MAY 2024

DESIGNER BK

CHECKED DW DRAWN JR

SHEET C2.07

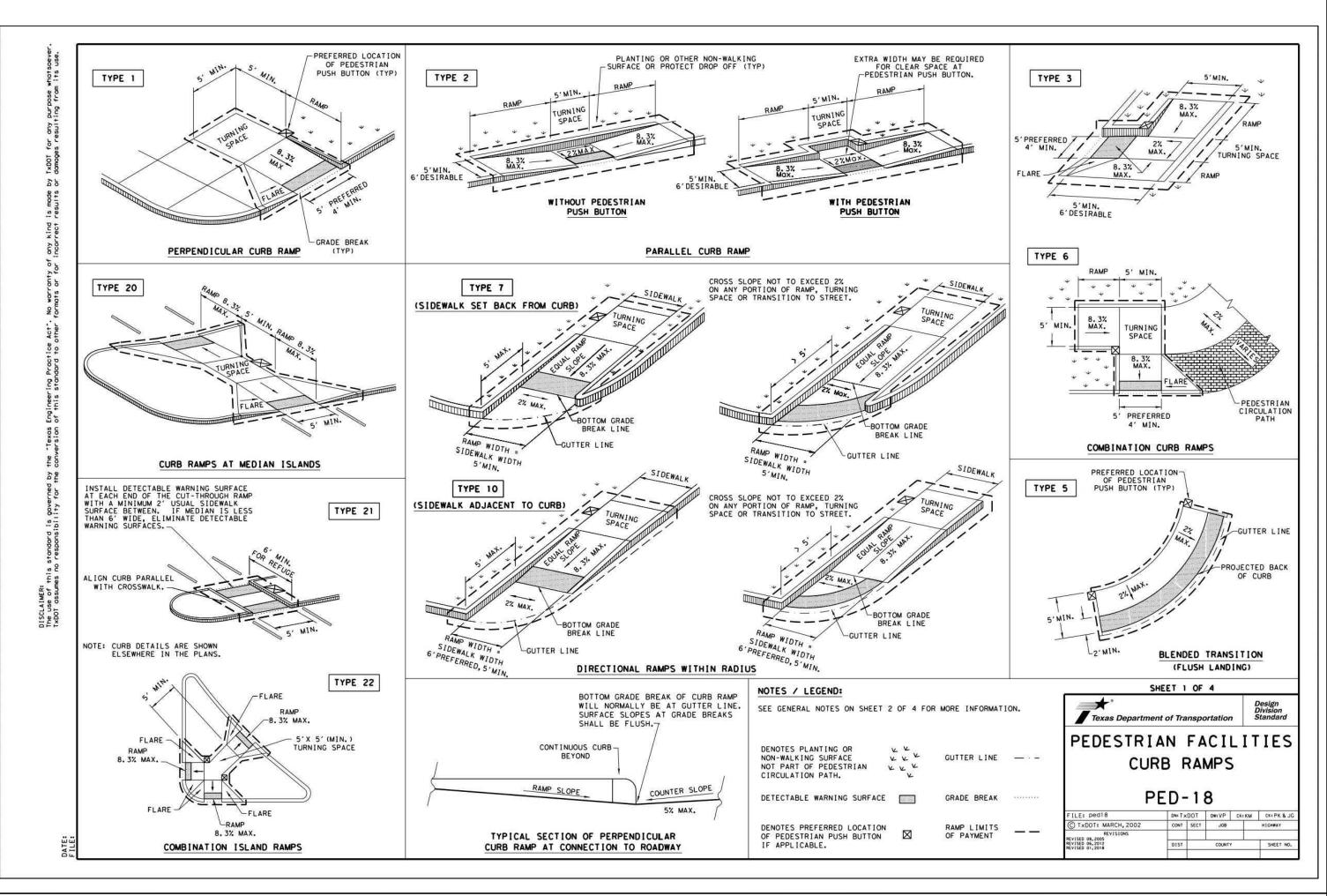
GENERAL NOTES:

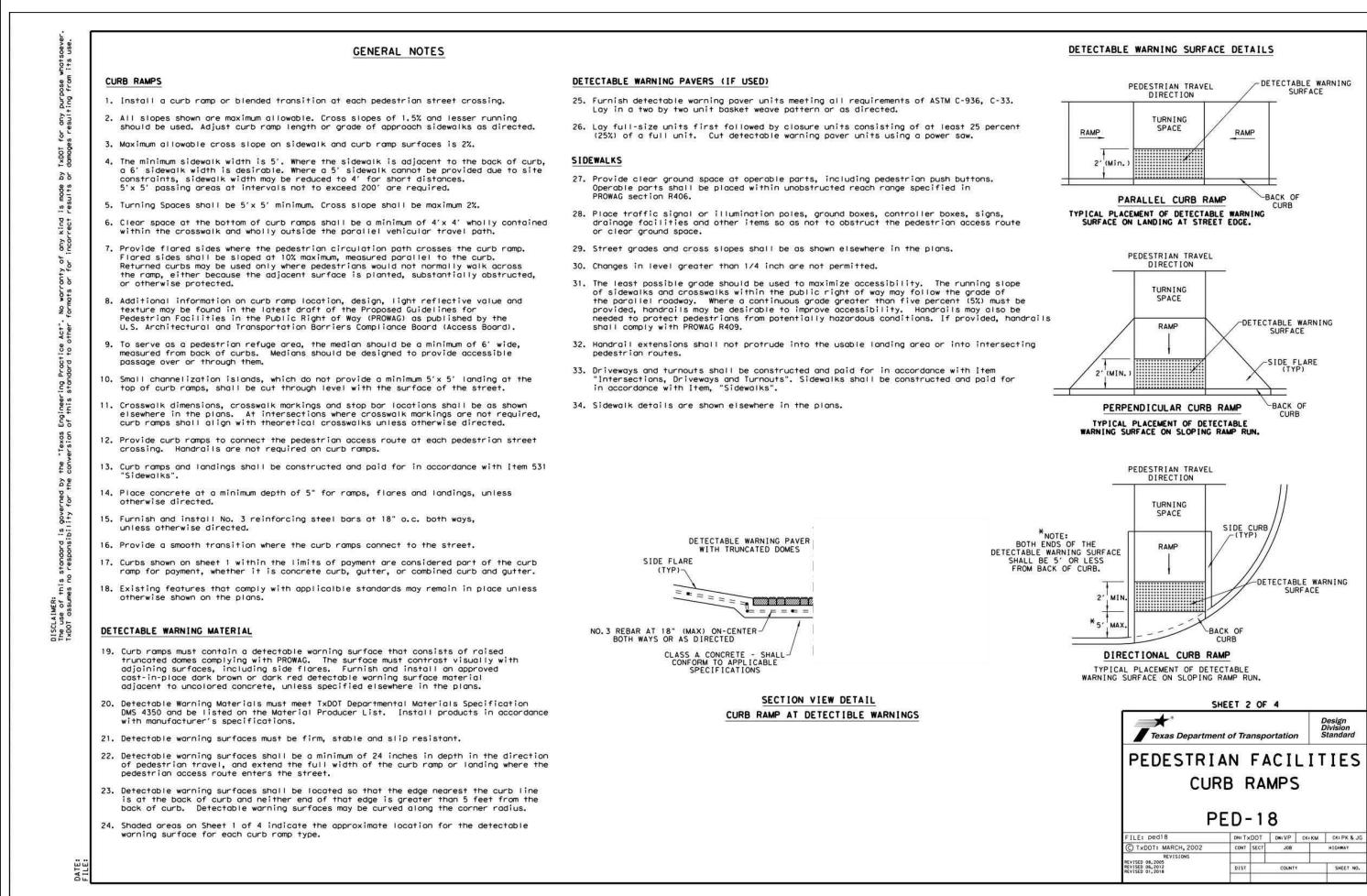
- 1. CONTRACTOR SHALL REFERENCE THE PROJECT PAVEMENT DESIGN REPORT PREPARED BY **TTL, INC.** DATED **MARCH 14, 2024.**
- CONTRACTOR SHALL RETAIN A GEOTECHNICAL ENGINEER TO VERIFY THE SUB GRADE CONDITION PRIOR TO PLACING ANY BASE MATERIAL. GEOTECHNICAL ENGINEER SHALL DETERMINE THE SUB GRADE CONDITION 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 BE 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.

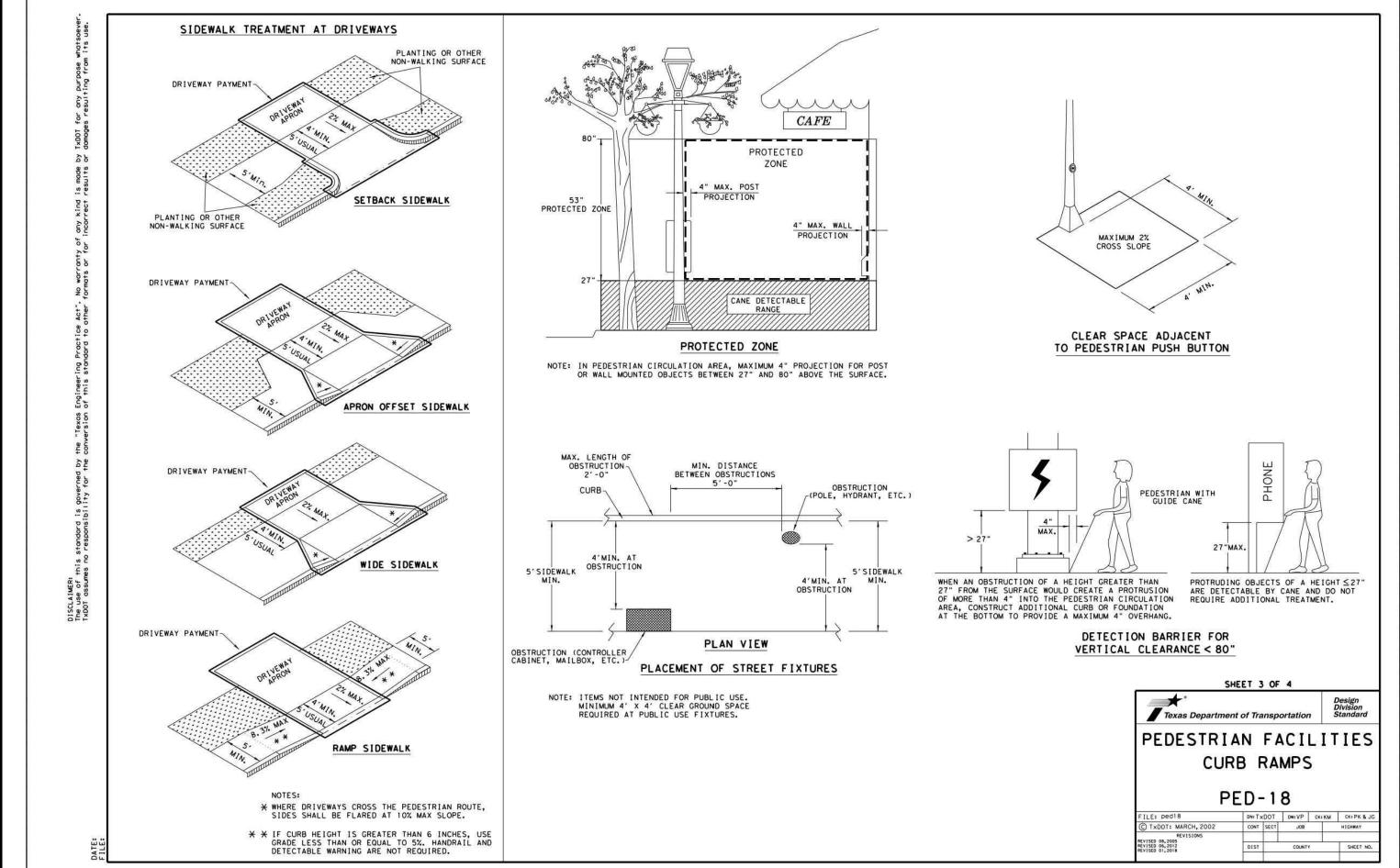
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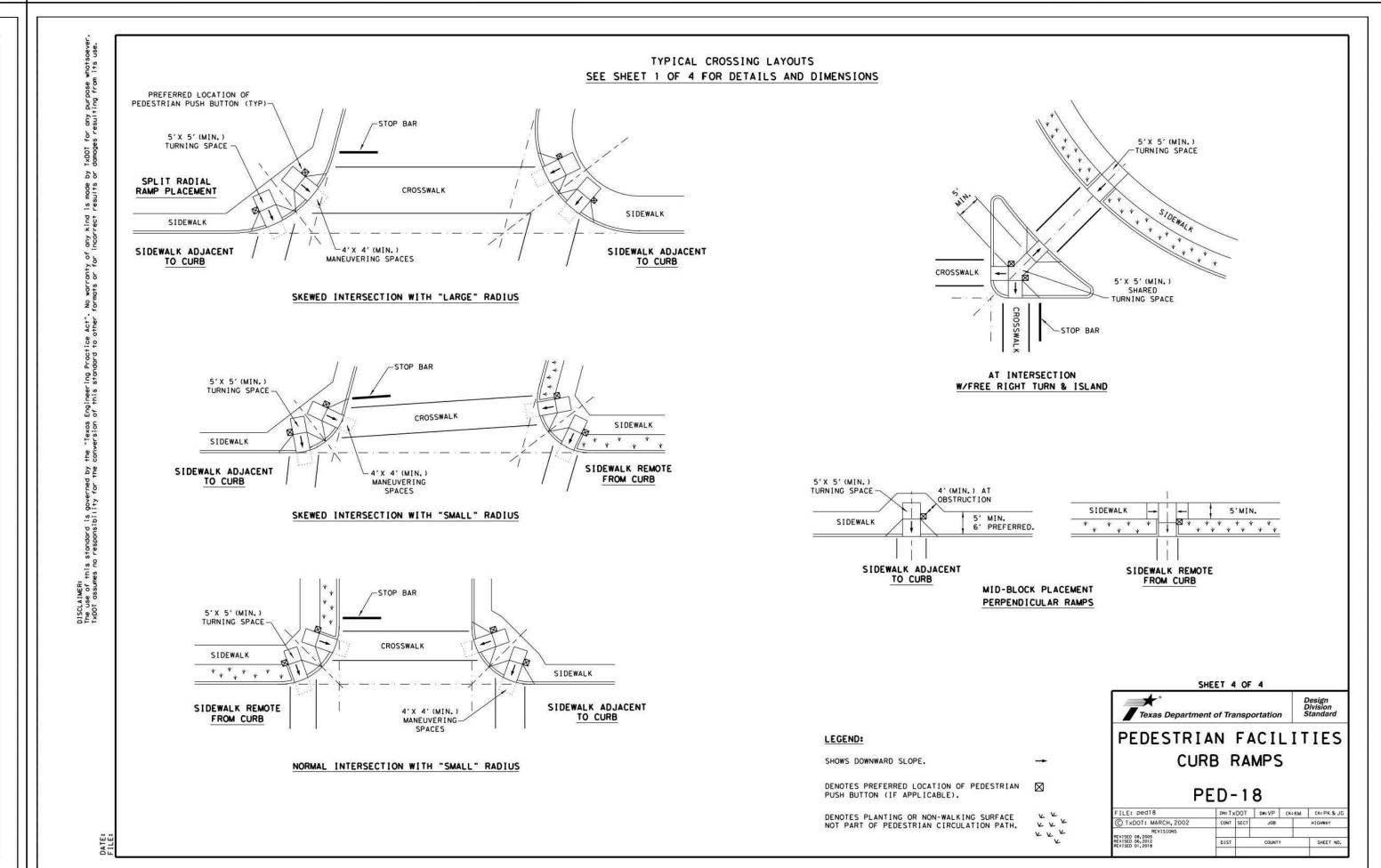
STREET SUBGRADE NOTES:

- 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
- 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.









STONE GARDEN - UNIT 3A
BEXAR COUNTY, TEXAS

EUGENE H. DAWSON I

PLAT NO. 23-11800210

JOB NO. 12482-09

DATE MAY 2024

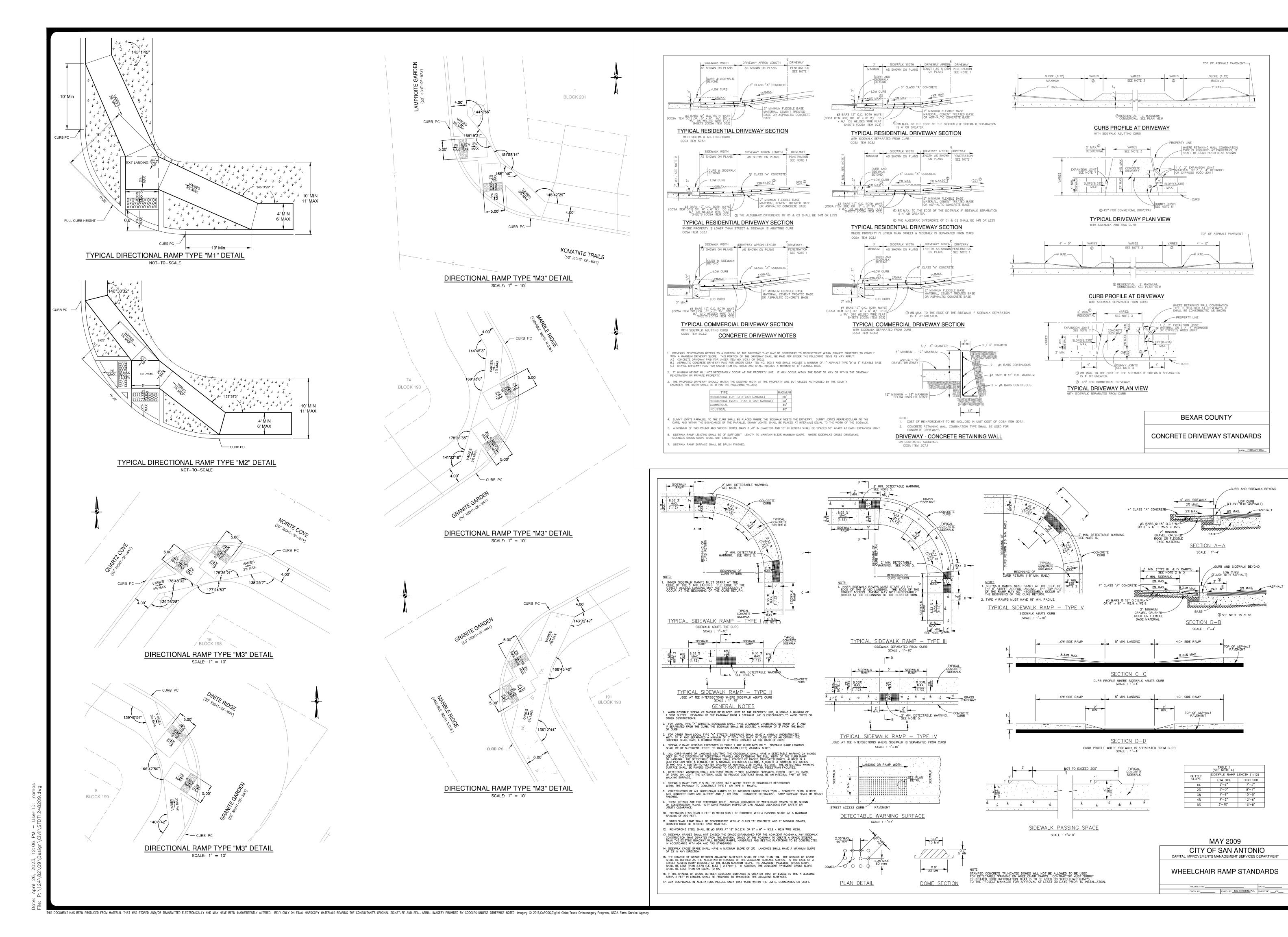
DESIGNER BK

CHECKED DW DRAWN JI

SHEET <u>C2.08</u>

26, 2023, 11:09 AM 4\82\09\Design\Civil`

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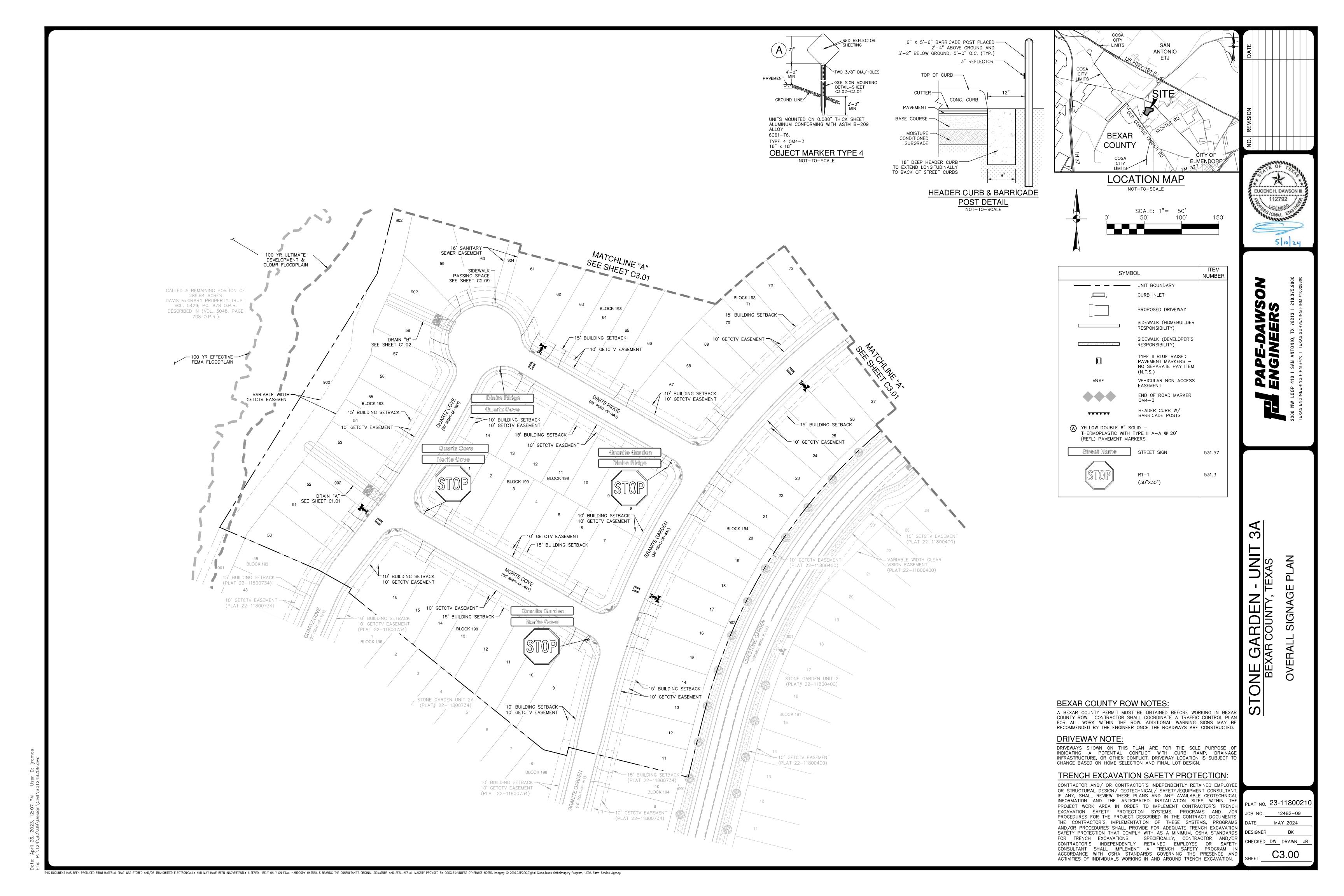
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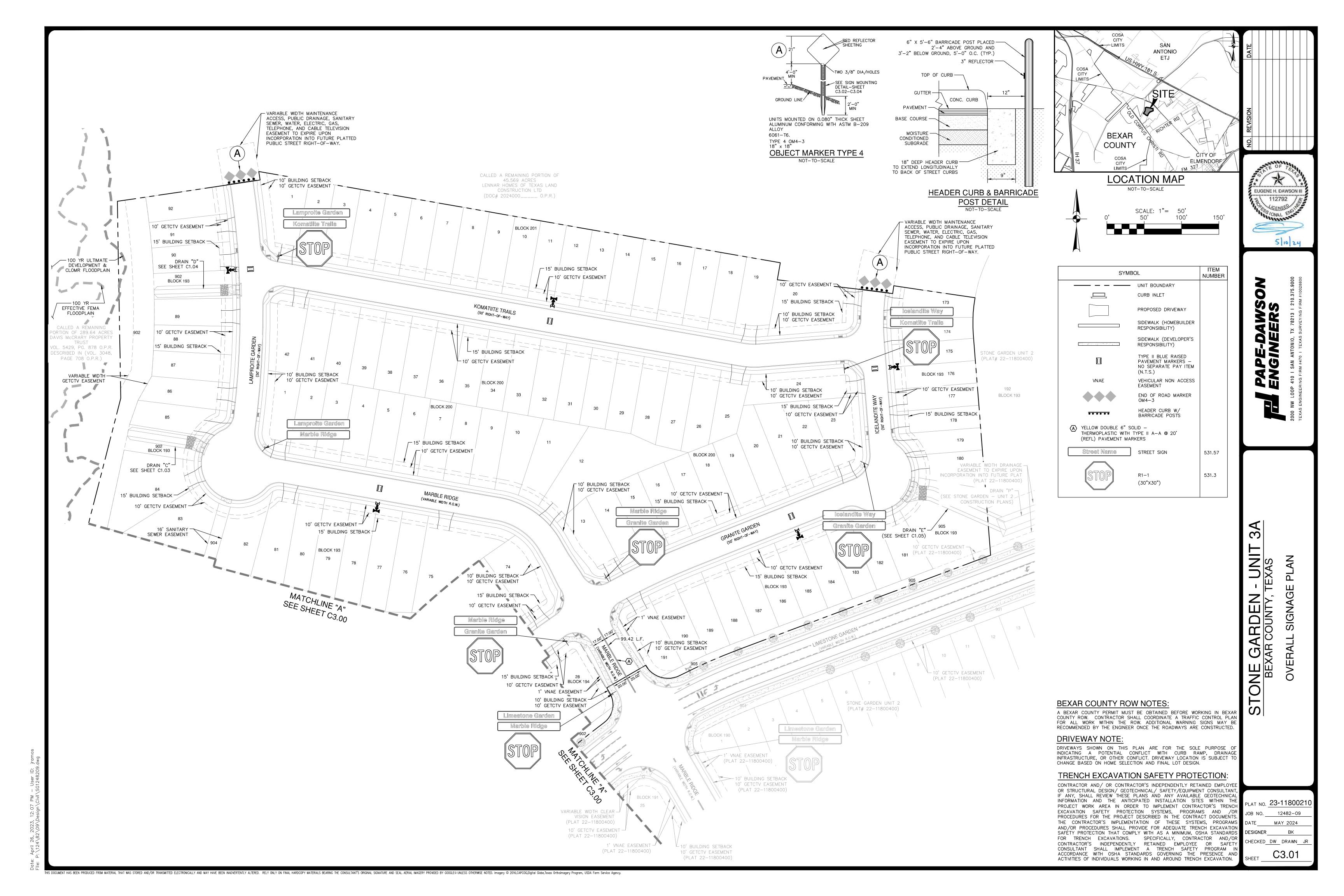
EUGENE H. DAWSON III

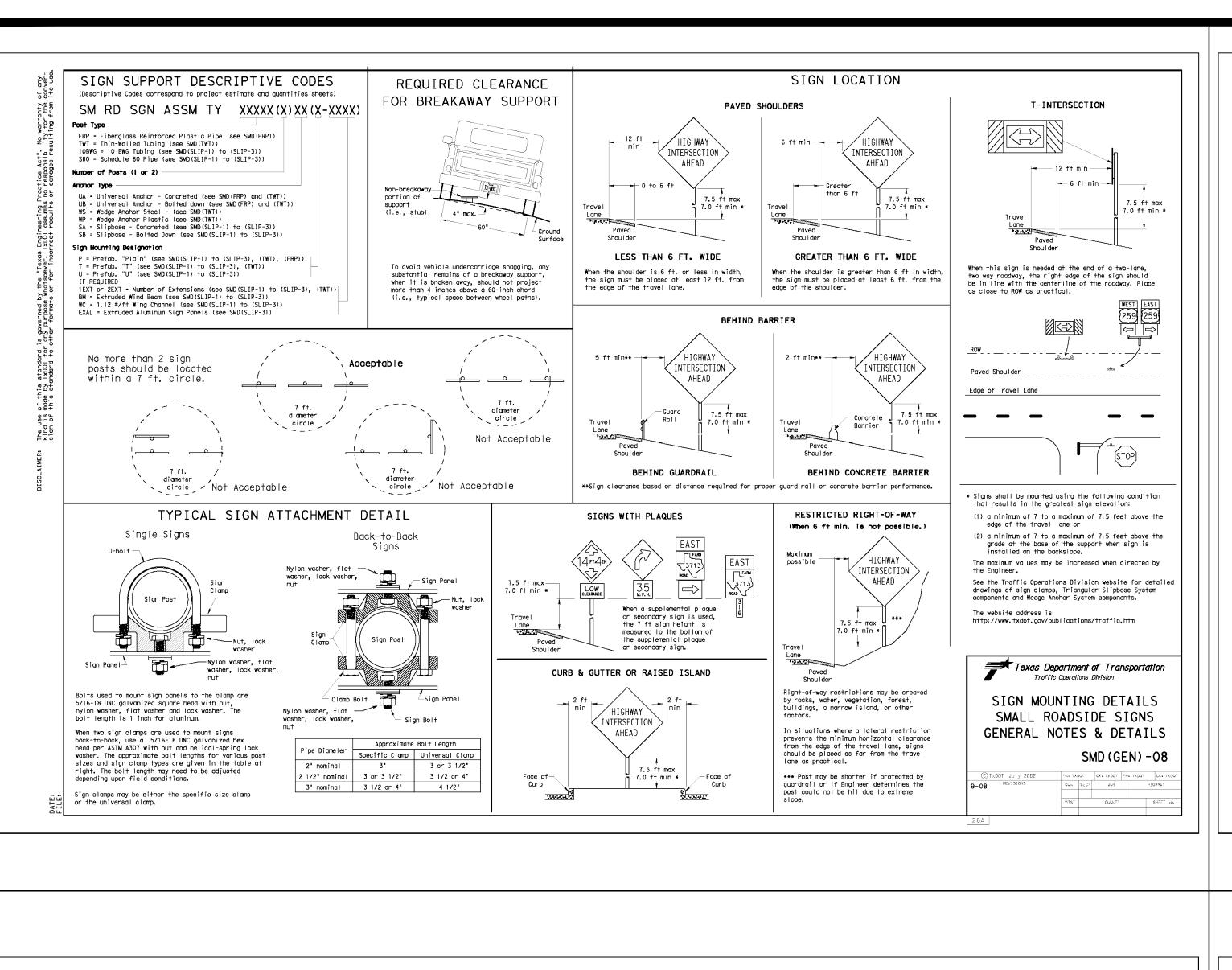
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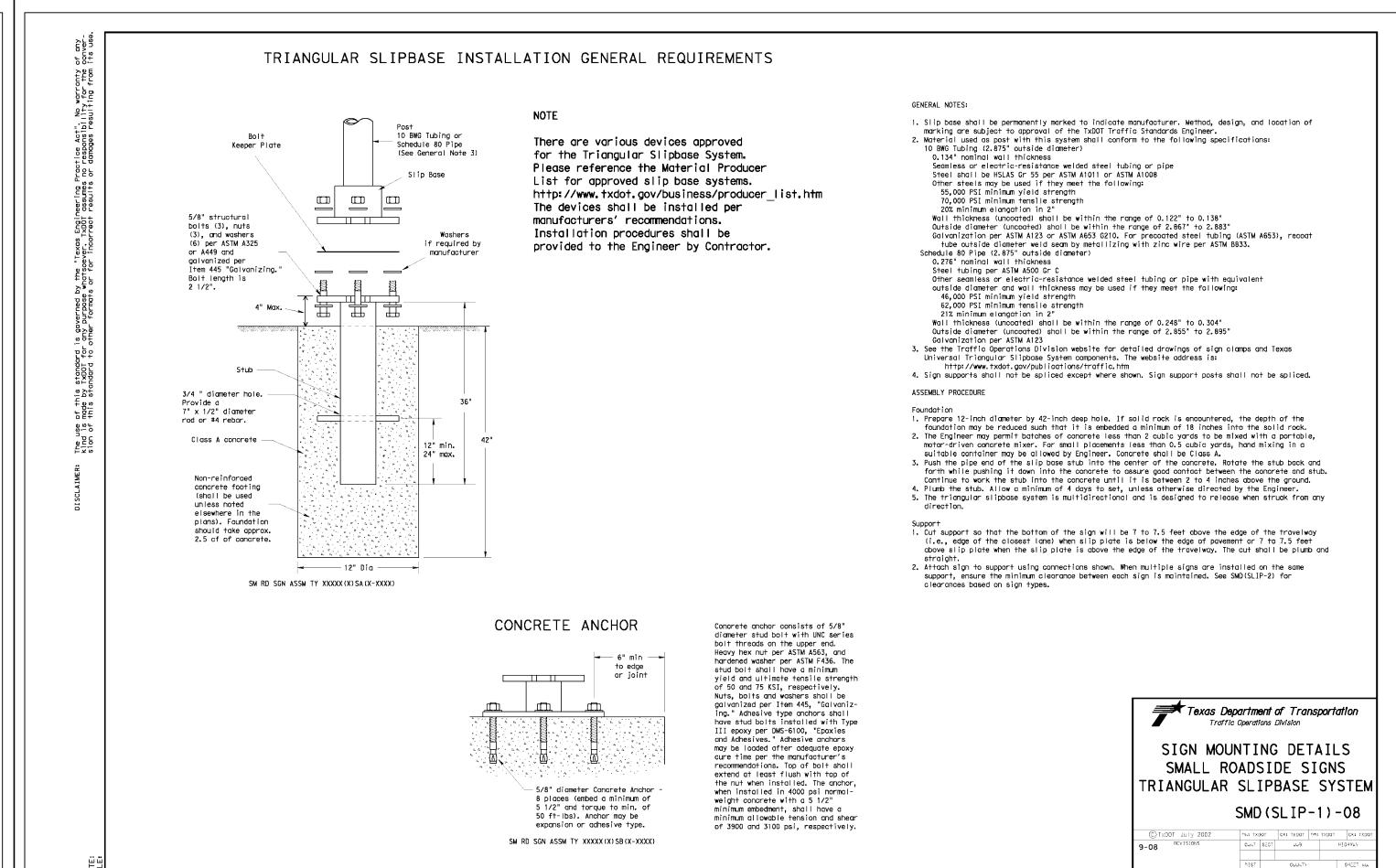
> PLAT NO. 23-11800210 12482-09 MAY 2024 DESIGNER CHECKED<u>DW</u> DRAWN<u>J</u>F

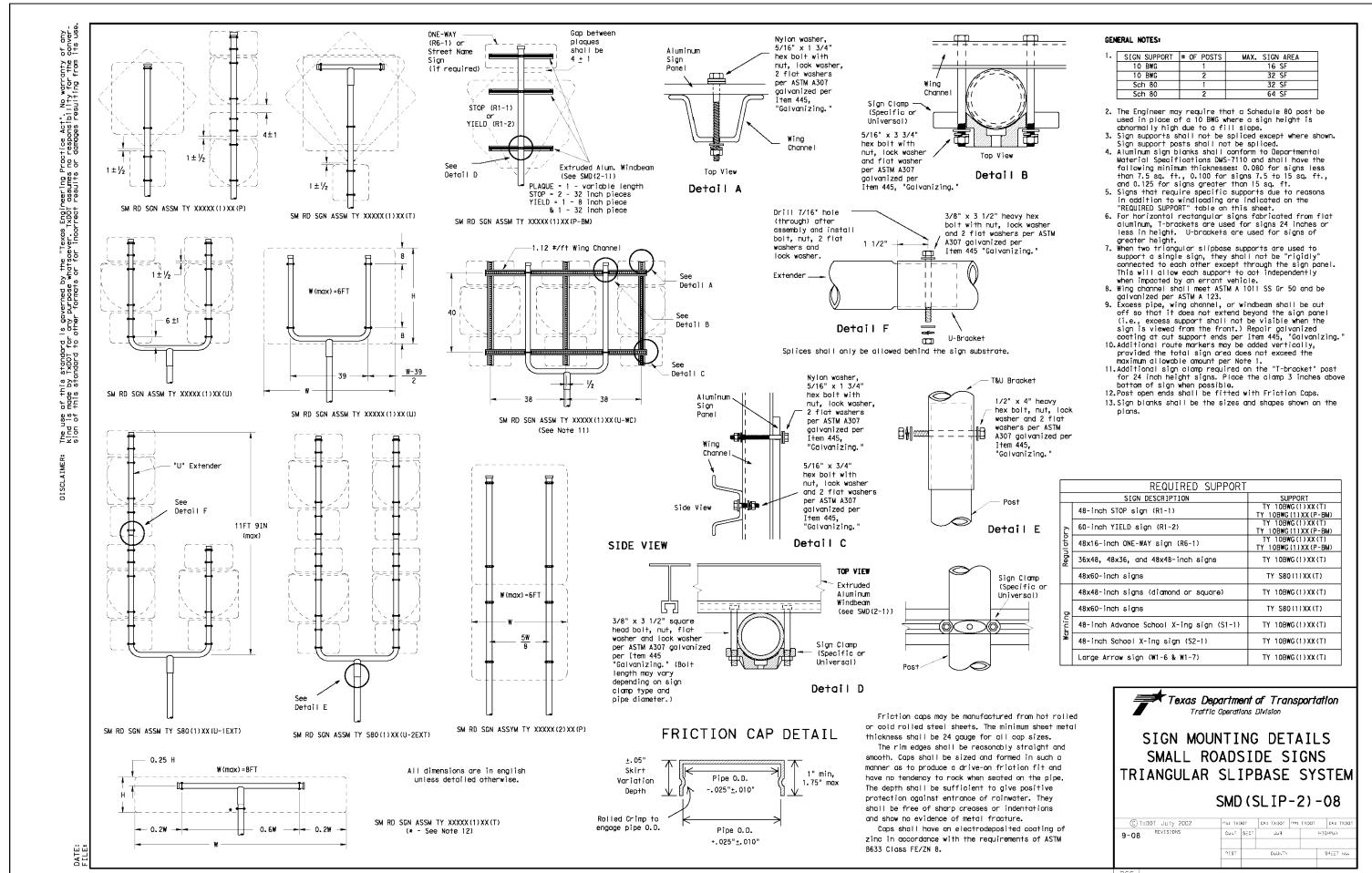
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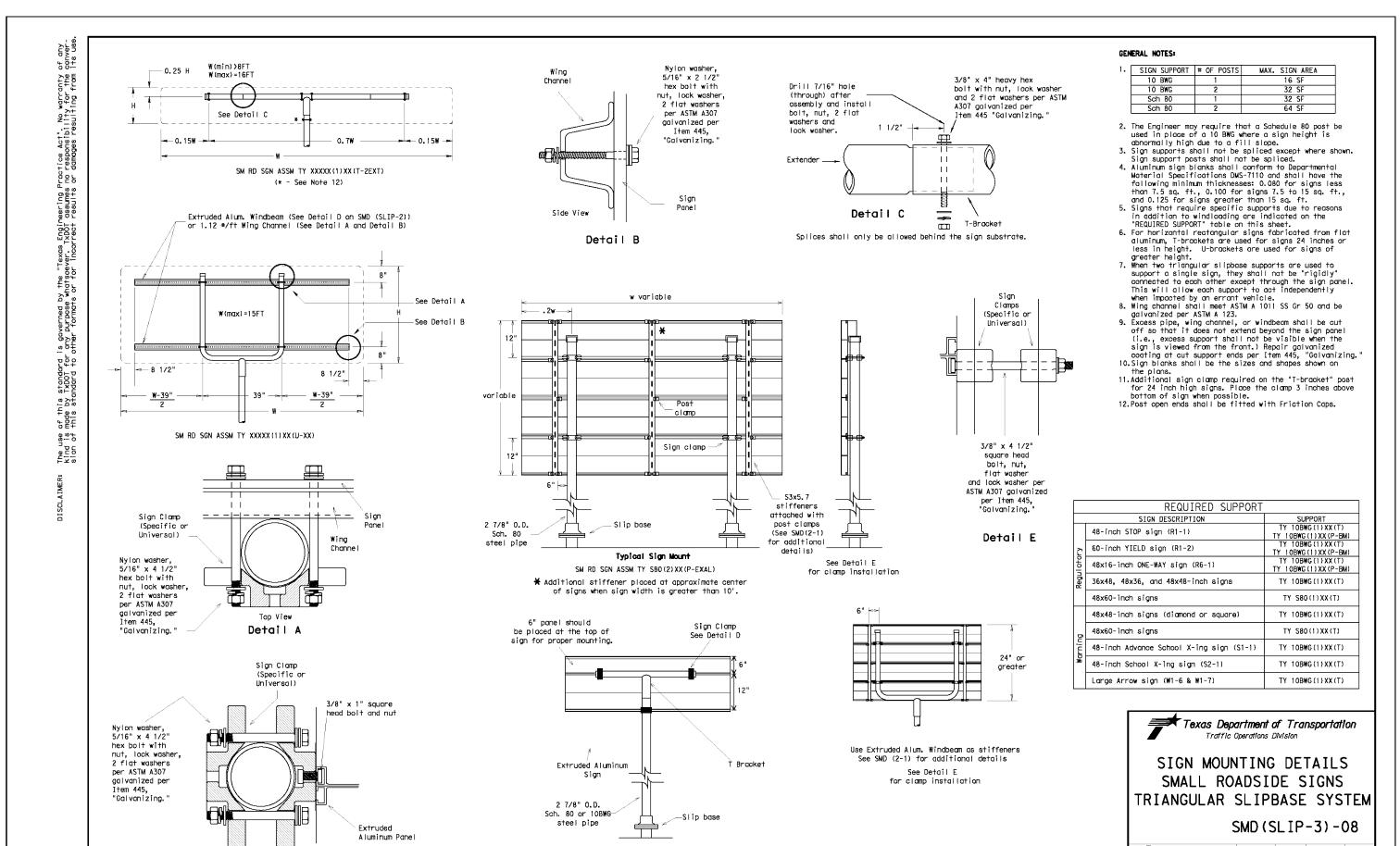












Extruded Aluminum Sign

With T Bracket

EXTRUDED ALUMINUM SIGN WITH T BRACKET

STONE GARDEN - UNIT 3A BEXAR COUNTY, TEXAS

EUGENE H. DAWSON II

PLAT NO. 23-11800210

JOB NO. 12482-09

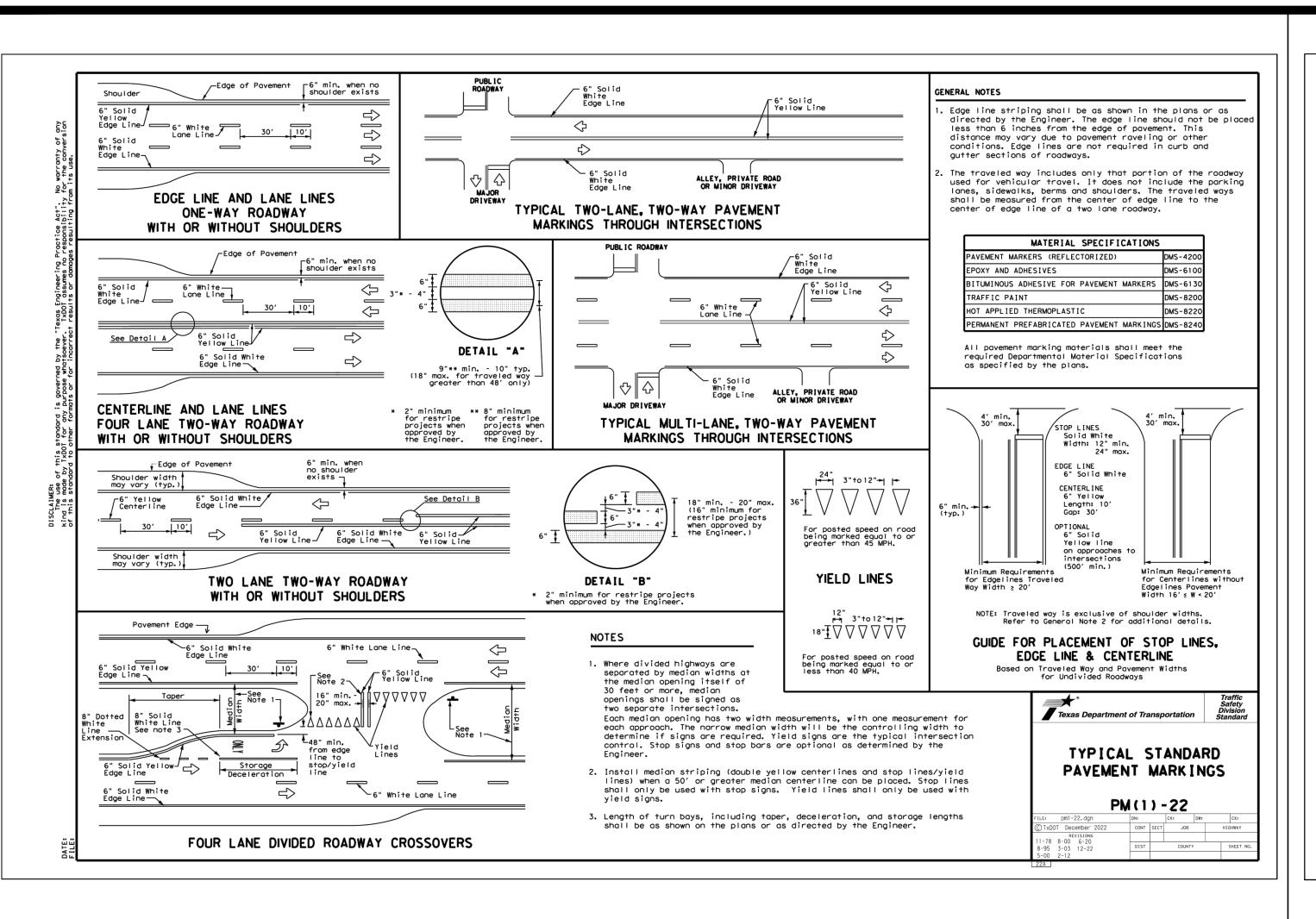
DATE MAY 2024

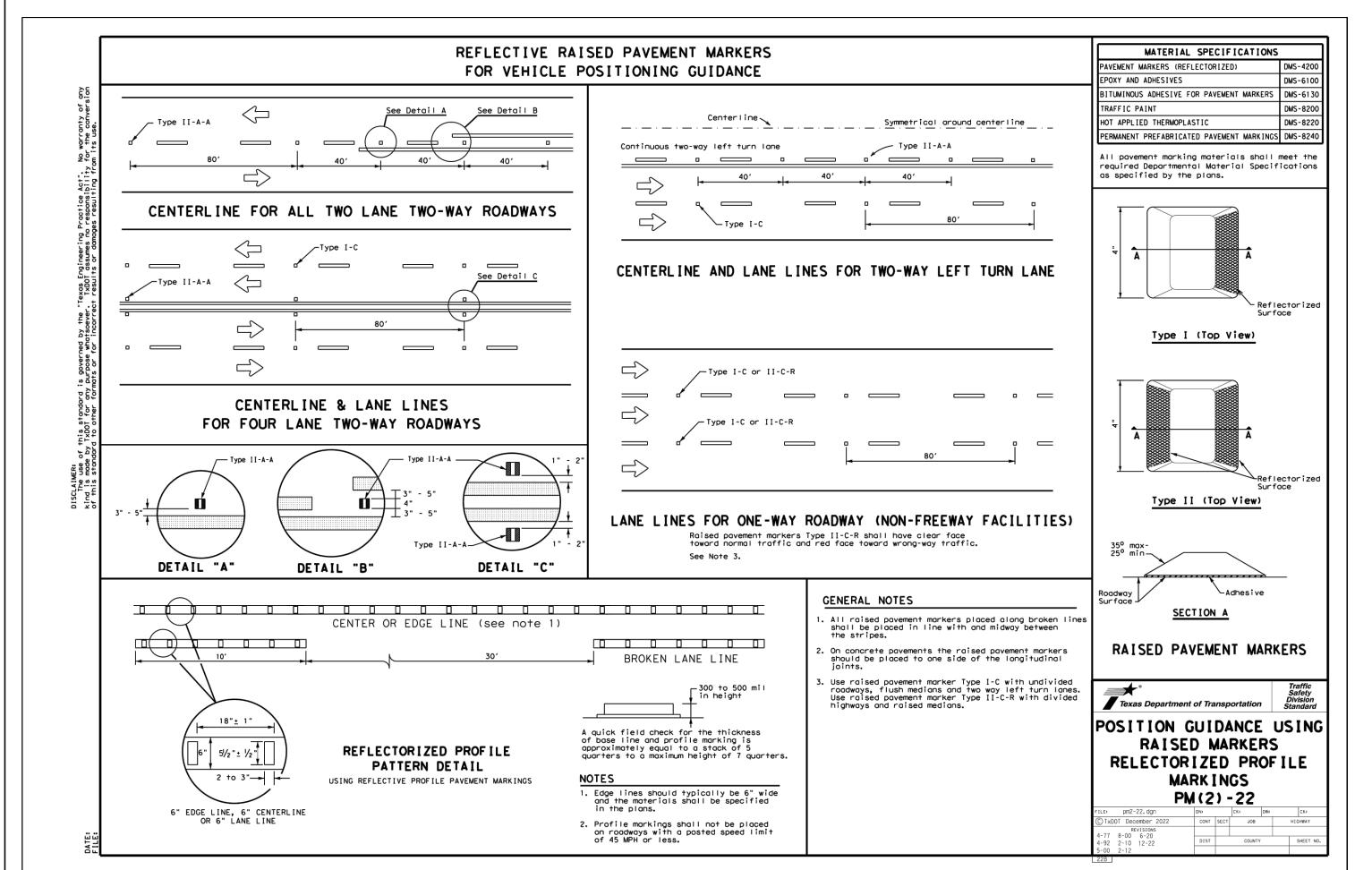
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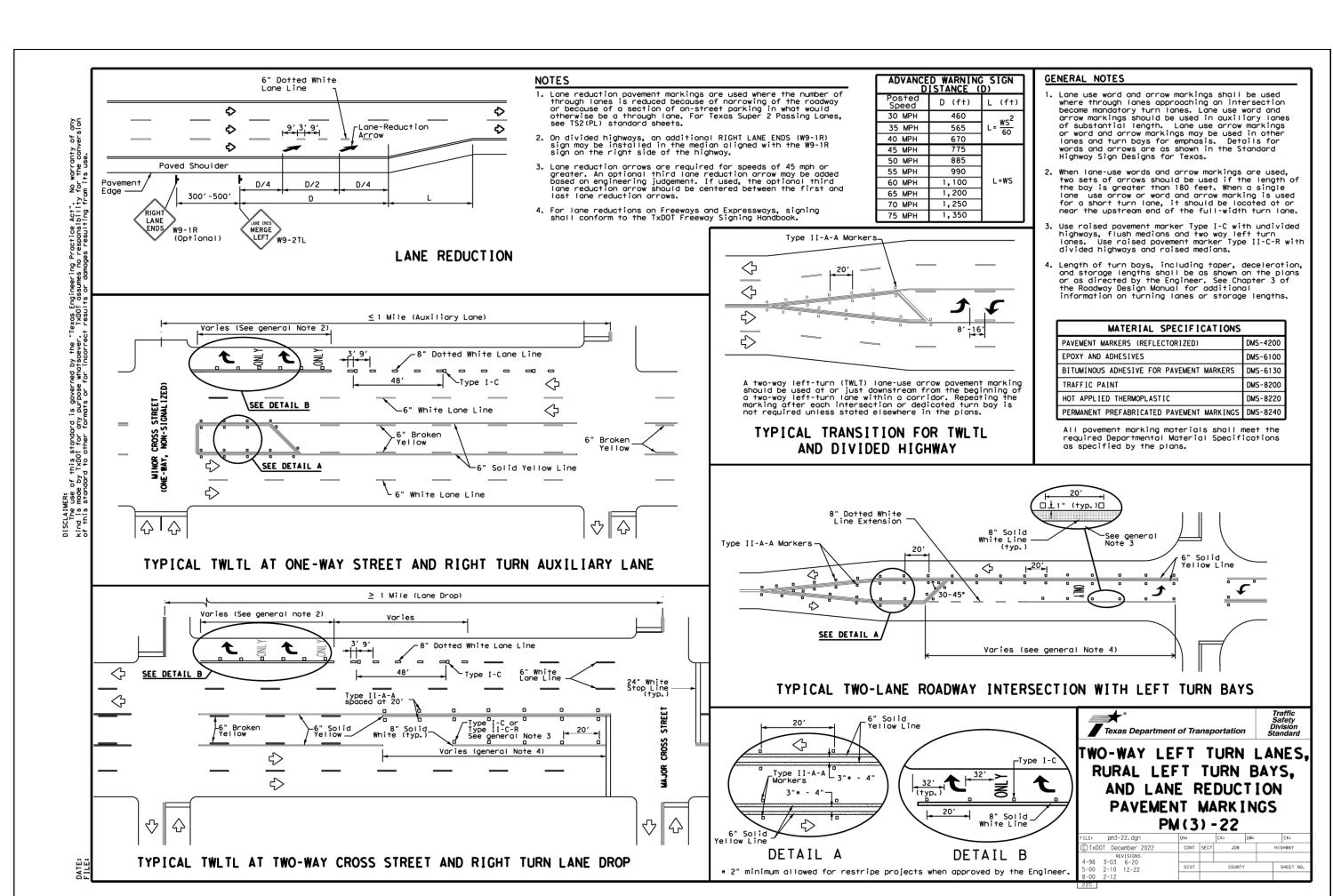
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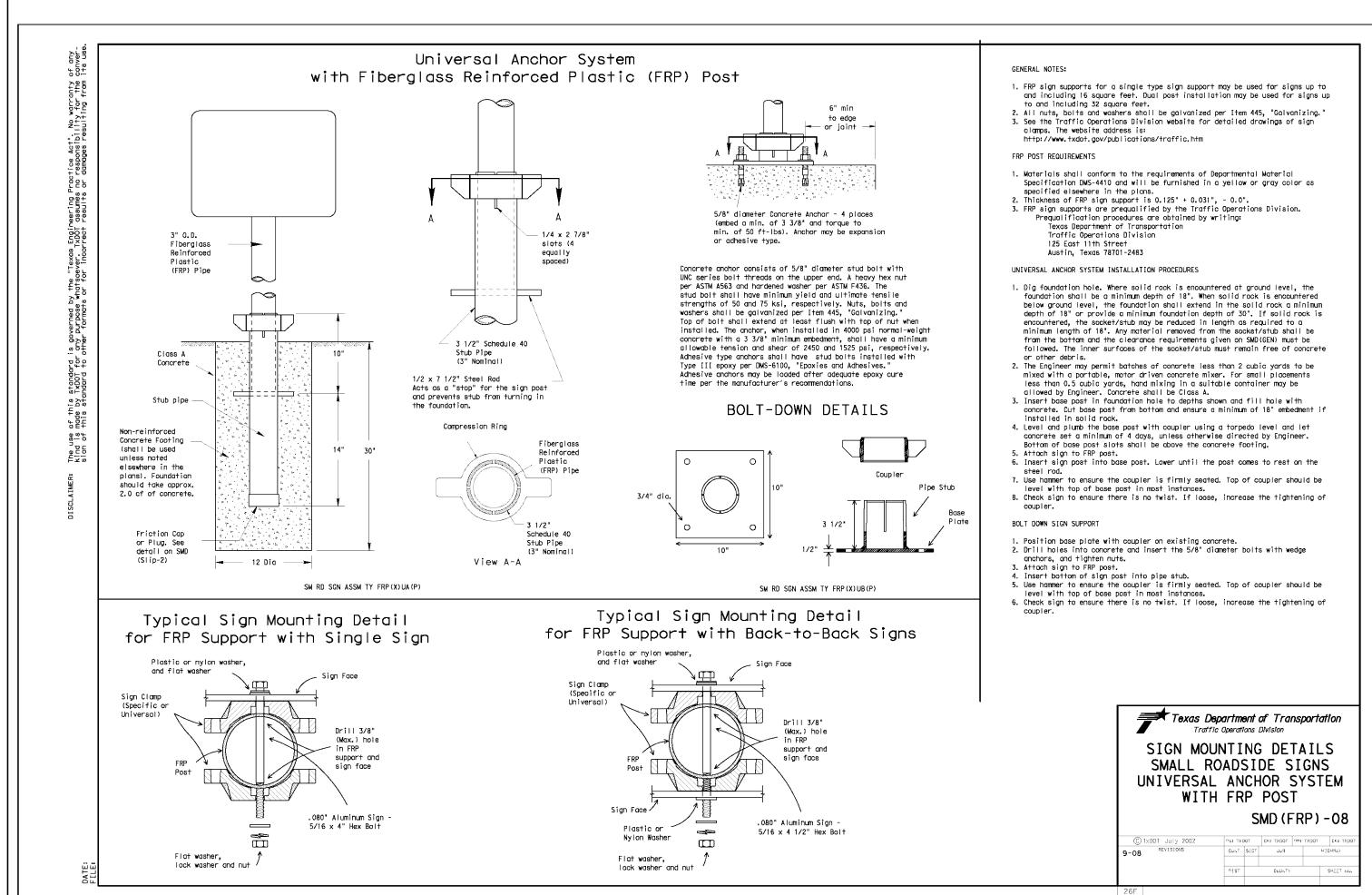
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FAPELDAWSON

ENGINEERING FIRM #470 I TEXAS SURVEYING FIRM #10028800

ONE GARDEN - UNIT 3A BEXAR COUNTY, TEXAS

PLAT NO. 23-11800210

JOB NO. 12482-09

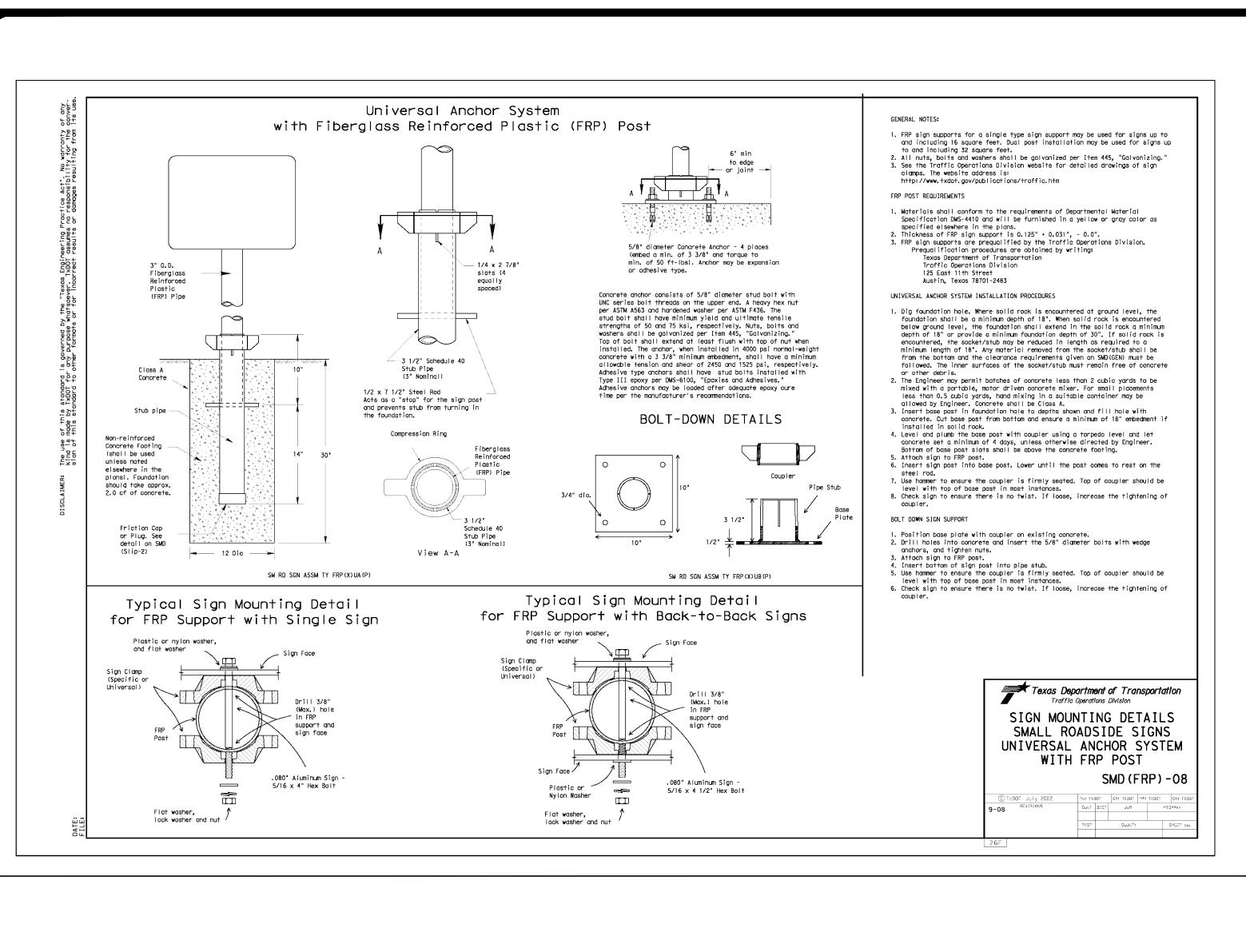
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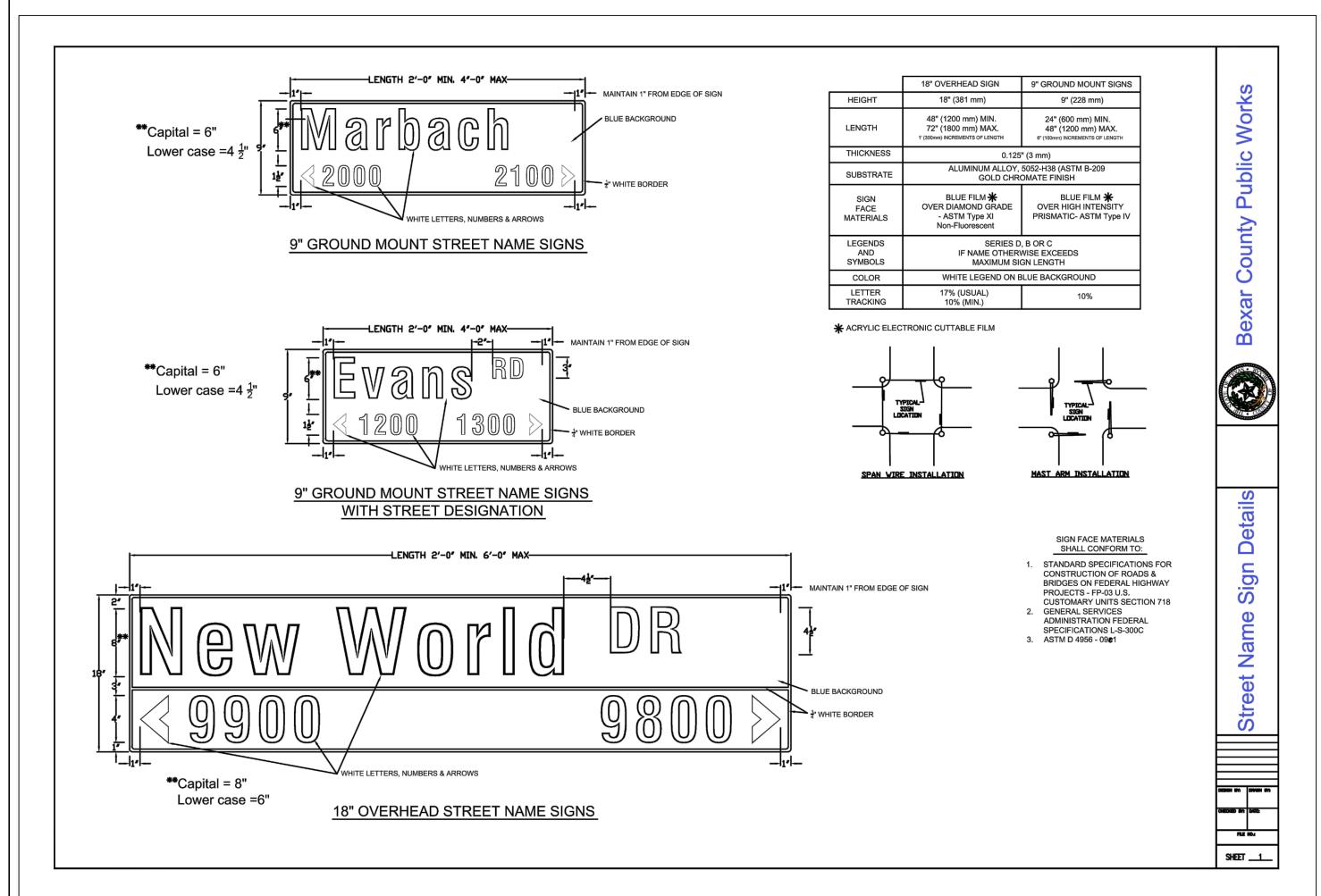
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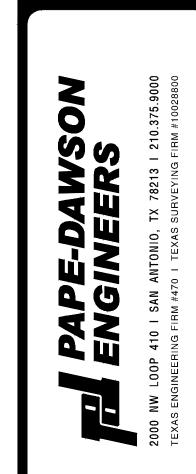
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EUGENE H. DAWSON II

STONE GARDEN - UNIT 3A BEXAR COUNTY, TEXAS

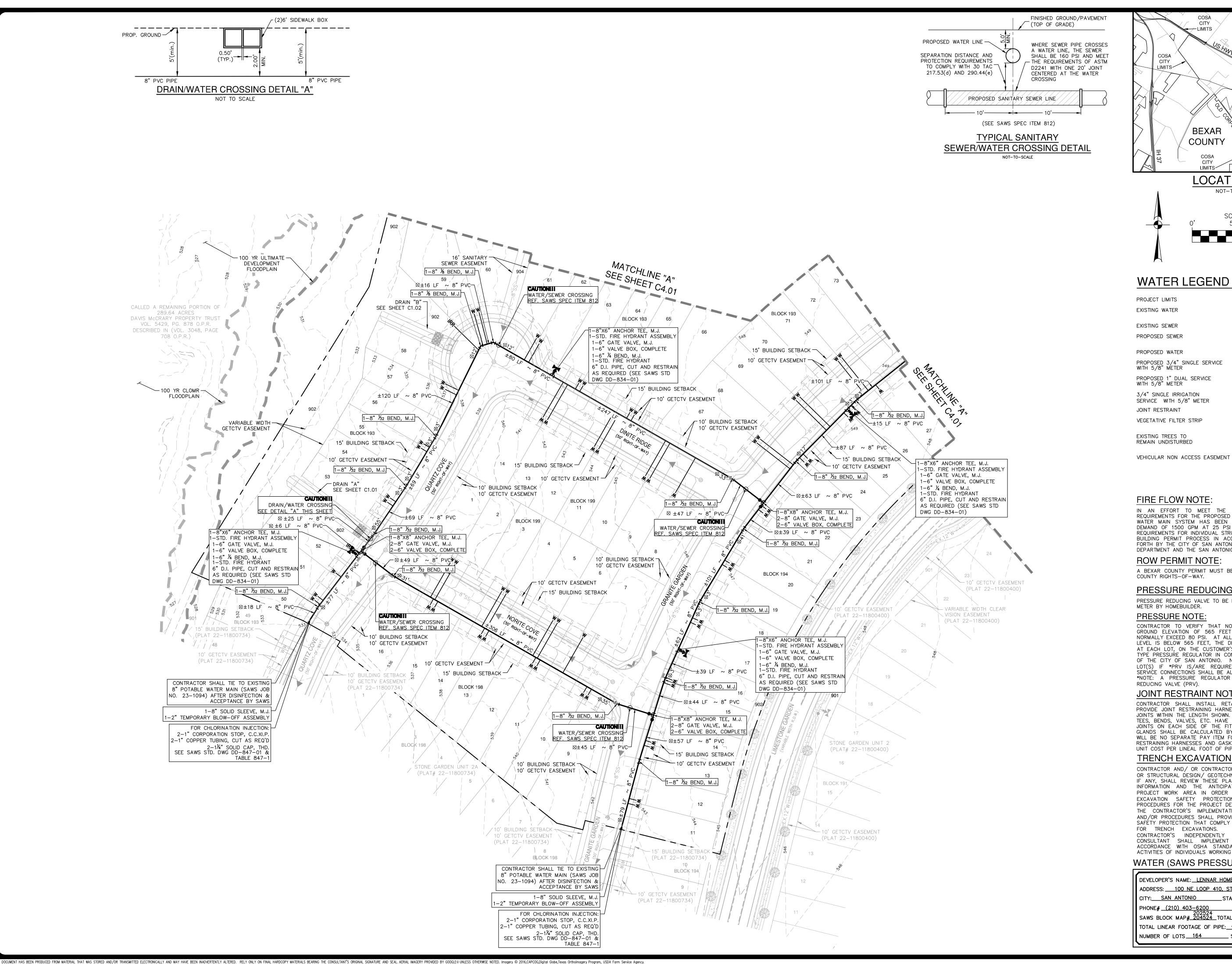
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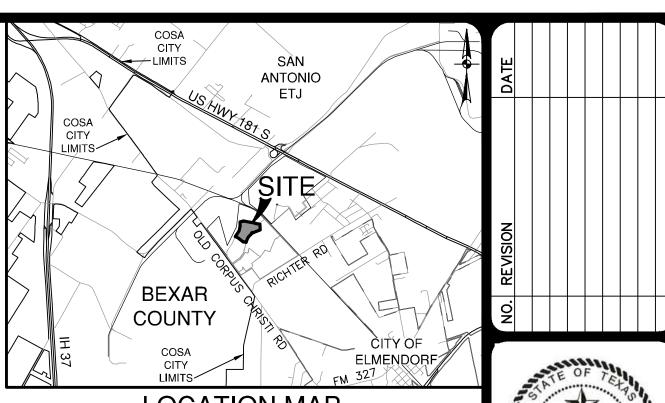
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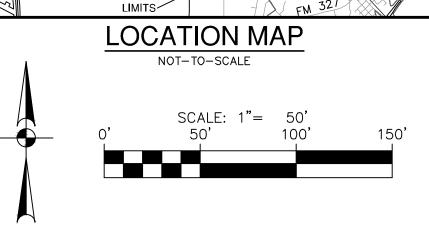
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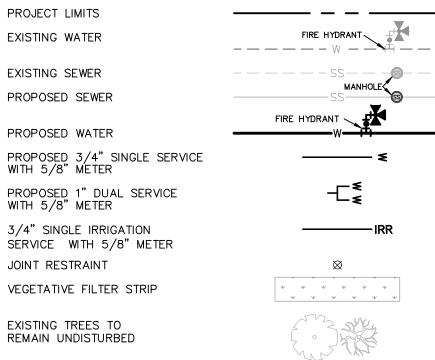
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WATER LEGEND



FIRE FLOW NOTE:

IN AN EFFORT TO MEET THE CITY OF SAN ANTONIO'S FIRE FLOW REQUIREMENTS FOR THE PROPOSED RESIDENTIAL DEVELOPMENT, THE PUBLIC WATER MAIN SYSTEM HAS BEEN DESIGNED FOR A MINIMUM FIRE FLOW DEMAND OF 1500 GPM AT 25 PSI RESIDUAL PRESSURE. THE FIRE FLOW REQUIREMENTS FOR INDIVIDUAL STRUCTURES WILL BE REVIEWED DURING TO BUILDING PERMIT PROCESS IN ACCORDANCE WITH THE PROCEDURES SE FORTH BY THE CITY OF SAN ANTONIO DIRECTOR OF DEVELOPMENT SERVICES DEPARTMENT AND THE SAN ANTONIO FIRE DEPARTMENT FIRE MARSHAL.

VNAE

ROW PERMIT NOTE:

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

PRESSURE REDUCING VALVE NOTE:

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

CONTRACTOR TO VERIFY THAT NO PORTION OF THE TRACT IS BELOW GROUND ELEVATION OF 565 FEET WHERE THE STATIC PRESSURE WILL NORMALLY EXCEED 80 PSI. AT ALL SUCH LOCATIONS WHERE THE GROUND LEVEL IS BELOW 565 FEET, THE DEVELOPER OR BUILDER SHALL INSTALL AT EACH LOT, ON THE CUSTOMER'S SIDE OF THE METER, AN APPROVED TYPE PRESSURE REGULATOR IN CONFORMANCE WITH THE PLUMBING CODE OF THE CITY OF SAN ANTONIO. NO DUAL SERVICES ALLOWED FOR ANY LOT(S) IF *PRV IS/ARE REQUIRED FOR SUCH LOT(S), ONLY SINGLE SERVICE CONNECTIONS SHALL BE ALLOWED. *NOTE: A PRESSURE REGULATOR IS ALSO KNOWN AS A PRESSURE

JOINT RESTRAINT NOTE:

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

TRENCH EXCAVATION SAFETY PROTECTION:

CONTRACTOR AND / OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOY OR STRUCTURAL DESIGN/ GEOTECHNICAL/ SAFETY/EQUIPMENT CONSULTANT IF ANY, SHALL REVIEW THESE PLANS AND ANY AVAILABLE GEOTECHNICA INFORMATION AND THE ANTICIPATED INSTALLATION SITES WITHIN TI PROJECT WORK AREA IN ORDER TO IMPLEMENT CONTRACTOR'S TRENCI EXCAVATION SAFETY PROTECTION SYSTEMS, PROGRAMS AND / PROCEDURES FOR THE PROJECT DESCRIBED IN THE CONTRACT DOCUMENTS THE CONTRACTOR'S IMPLEMENTATION OF THESE SYSTEMS, PROGRAMS AND/OR PROCEDURES SHALL PROVIDE FOR ADEQUATE TRENCH EXCAVATION SAFÉTY PROTECTION THAT COMPLY WITH AS A MINIMUM, OSHA STANDARDS FOR TRENCH EXCAVATIONS. SPECIFICALLY, CONTRACTOR AND/OF CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR SAFETY CONSULTANT SHALL IMPLEMENT A TRENCH SAFETY PROGRAM ACCORDANCE WITH OSHA STANDARDS GOVERNING THE PRESENCE ANI ACTIVITIES OF INDIVIDUALS WORKING IN AND AROUND TRENCH EXCAVATION.

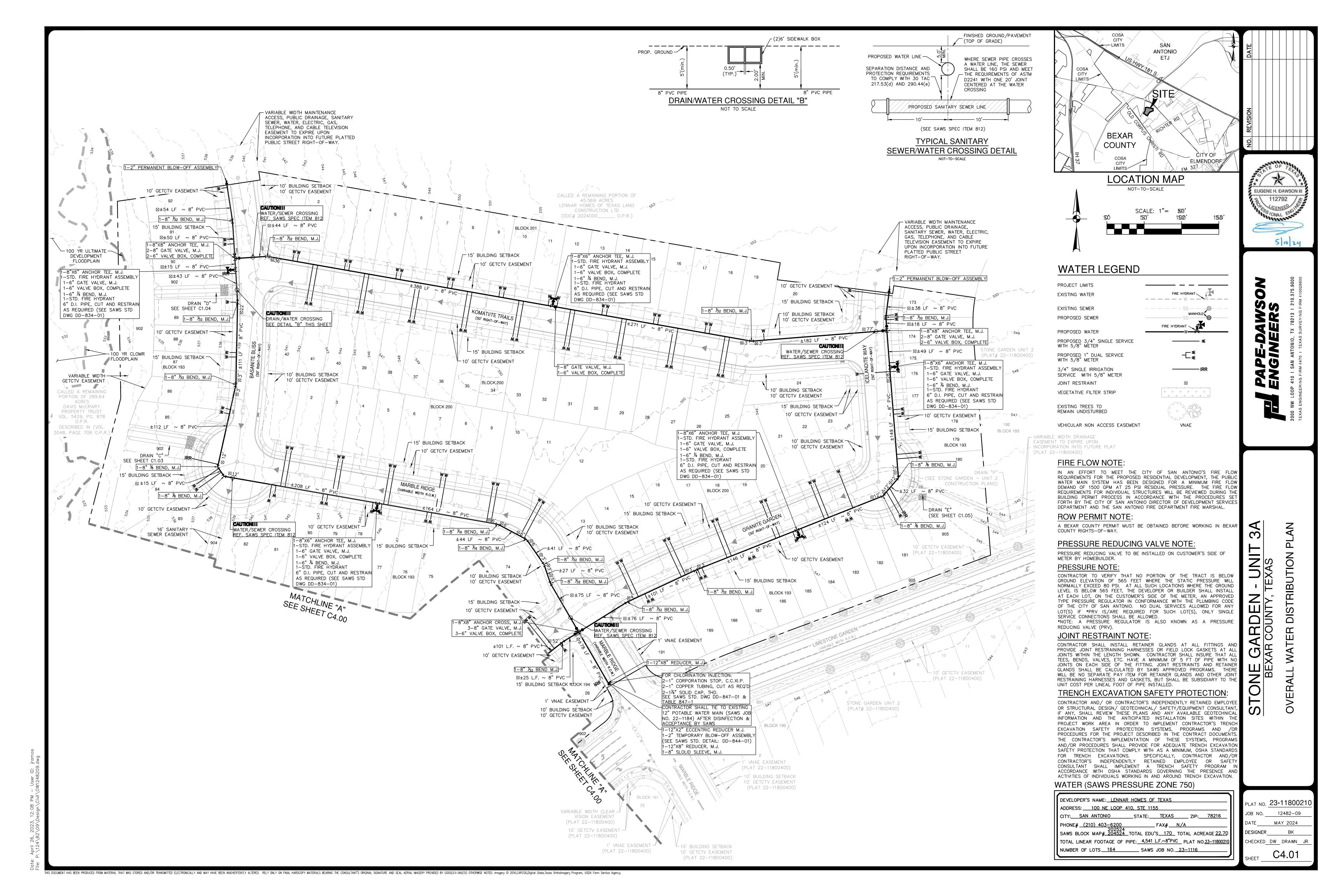
WATER (SAWS PRESSURE ZONE 750)

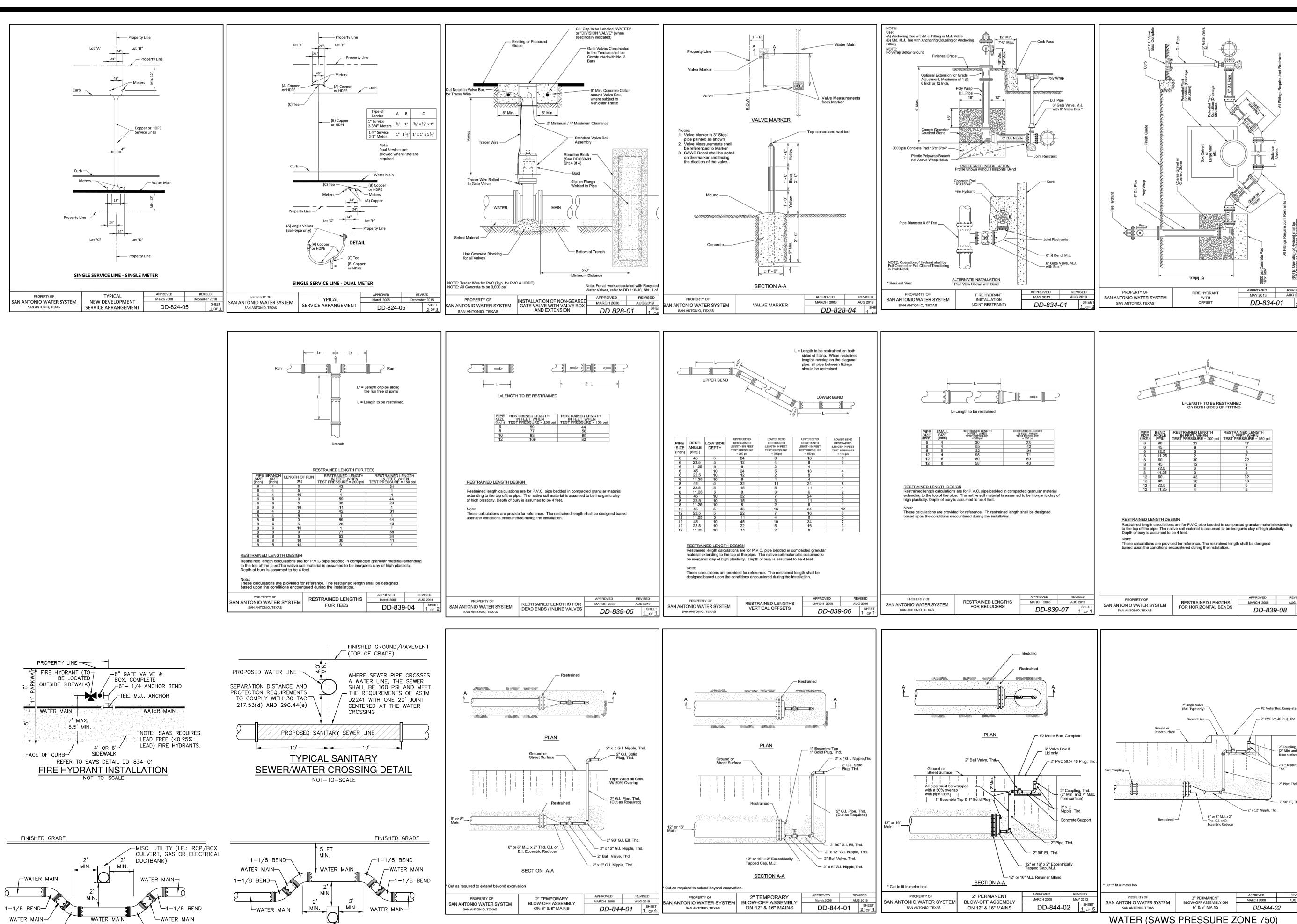
DEVELOPER'S NAME: LENNAR HOMES OF TEXAS
ADDRESS: 100 NE LOOP 410, STE 1155
CITY: SAN ANTONIO STATE: TEXAS ZIP: 78216
PHONE# (210) 403-6200 FAX# N/A
202524 SAWS BLOCK MAP <u># 204524</u> TOTAL EDU'S <u>170</u> TOTAL ACREAGE <u>22.7</u>
TOTAL LINEAR FOOTAGE OF PIPE: 4,541 L.F.~8"PVC PLAT NO.23-118002
NUMBER OF LOTS 164 SAWS JOB NO. 23-1116

INN

EUGENE H. DAWSON III 112792

PLAT NO. 23-1180021 JOB NO. 12482-09 DATE MAY 2024 DESIGNER CHECKED DW DRAWN JF





3

EUGENE H. DAWSON III

REVISED AUG 2019

MAY 2013

DD-834-01

MARCH 2008

DD-839-08

- #2 Meter Box, Complete

– 2" PVC Sch 40 Plug, Thd.

2" Coupling, Thd. — (2" Min. and 7" Max from surface)

- NO. 23-1180021 12482-09 MAY 2024

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ALL JOINTS ARE FULLY RESTRAINED IN

TABLE DD-839-06.

ACCORDANCE WITH SAWS SPECIFICATION

TYPICAL UTILITY/WATER CROSSING DETAIL

NOT-TO-SCALE

-1-1/8 BEND

1-1/8 BEND-

-MISC. UTILITY (I.E.: RCP/BOX

DUCTBANK)

CULVERT, GAS OR ELECTRICAL

DEVELOPER'S NAME: LENNAR HOMES OF TEXAS ADDRESS: 100 NE LOOP 410, STE 1155 CITY: SAN ANTONIO STATE: TEXAS ZIP: 78216 PHONE# (210) 403-6200 SAWS BLOCK MAP# 204524 TOTAL EDU'S 170 TOTAL ACREAGE 22.70 TOTAL LINEAR FOOTAGE OF PIPE: 4,541 L.F.~8"PVC PLAT NO.23-11800210 NUMBER OF LOTS 164 SAWS JOB NO. 23-1116

DD-844-02

DESIGNER CHECKED_DW DRAWN J

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SAWS CONSTRUCTION NOTES (LAST REVISED JANUARY 2022)

WS GENERAL SECTION

- ALL MATERIALS AND CONSTRUCTION PROCEDURES WITHIN THE SCOPE OF THIS CONTRACT SHALL BE APPROVED BY THE SAN ANTONIO WATER SYSTEM (SAWS) AND COMPLY WITH THE PLANS, SPECIFICATIONS, GENERAL CONDITIONS AND WITH THE FOLLOWING AS APPLICABLE:
 - A.CURRENT TEXAS COMMISSION ON ENVIRONMENTAL QUALITY (TCEQ) 'DESIGN CRITERIA FOR DOMESTIC WASTEWATER SYSTEM", TEXAS ADMINISTRATIVE CODE (TAC) TITLE 30 PART 1 CHAPTER 217 AND "PUBLIC DRINKING WATER", TAC TITLE 30 PART 1 CHAPTER 290.
 - B.CURRENT TXDOT "STANDARD SPECIFICATIONS FOR CONSTRUCTION OF HIGHWAYS, STREETS AND DRAINAGE" C.CURRENT "SAN ANTONIO WATER SYSTEM STANDARD SPECIFICATIONS FOR WATER AND SANITARY SEWER CONSTRUCTION". D.CURRENT CITY OF SAN ANTONIO "STANDARD SPECIFICATIONS FOR PUBLIC
 - WORKS CONSTRUCTION" E. CURRENT CITY OF SAN ANTONIO "UTILITY EXCAVATION CRITERIA MANUAL"
- THE CONTRACTOR SHALL NOT PROCEED WITH ANY PIPE INSTALLATION WORK UNTIL THEY OBTAIN A COPY OF THE APPROVED COUNTER PERMIT OR GENERAL CONSTRUCTION PERMIT (GCP) FROM THE CONSULTANT AND HAS BEEN NOTIFIED BY SAWS CONSTRUCTION INSPECTION DIVISION TO PROCEED WITH THE WORK AND HAS ARRANGED A MEETING WITH THE INSPECTOR AND CONSULTANT FOR THE WORK REQUIREMENTS. WORK COMPLETED BY THE CONTRACTOR WITHOUT AN APPROVED COUNTER PERMIT AND/OR A GCP WILL BE SUBJECT TO REMOVAL AND REPLACEMENT AT THE EXPENSE OF THE CONTRACTORS AND/OR THE DEVELOPER.
- THE CONTRACTOR SHALL OBTAIN THE SAWS STANDARD DETAILS FROM THE SAWS WEBSITE, HTTP: //WWW.SAWS.ORG/BUSINESS_CENTER/SPECS. UNLESS OTHERWISE
- THE CONTRACTOR IS TO MAKE ARRANGEMENTS WITH THE SAWS CONSTRUCTION (210) 233-2973, ON NOTIFICATION PROCEDURES THAT WILL BE USED TO NOTIFY AFFECTED HOME RESIDENTS AND/OR PROPERTY OWNERS 48 HOURS PRIOR TO BEGINNING ANY WORK.
- LOCATION AND DEPTH OF EXISTING UTILITIES AND SERVICE LATERALS SHOWN ON THE PLANS ARE UNDERSTOOD TO BE APPROXIMATE. ACTUAL LOCATIONS AND DEPTHS MUST BE FIFID VERIFIED BY THE CONTRACTOR AT LEAST 1 WEEK PRIOR TO CONSTRUCTION. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO LOCATE UTILITY SERVICE LINES AS REQUIRED FOR CONSTRUCTION AND TO PROTECT THEM DURING CONSTRUCTION AT NO COST TO SAWS.
- THE CONTRACTOR SHALL VERIFY THE EXACT LOCATION OF UNDERGROUND UTILITIES AND DRAINAGE STRUCTURES AT LEAST 1-2 WEEKS PRIOR TO CONSTRUCTION WHETHER SHOWN ON PLANS OR NOT. PLEASE ALLOW UP TO 7 BUSINESS DAYS FOR LOCATES REQUESTING PIPE LOCATION MARKERS ON SAWS FACILITIES. THE FOLLOWING CONTACT INFORMATION ARE SUPPLIED FOR VERIFICATION PURPOSES:
- SAWS UTILITY LOCATES: HTTP://WWW.SAWS.ORG/SERVICE/LOCATES
- COSA DRAINAGE (210) 207-0724 OR (210) 207-6026 COSA TRAFFIC SIGNAL OPERATIONS (210) 206-8480
- COSA TRAFFIC SIGNAL DAMAGES (210) 207-3951 ■ TEXAS STATE WIDE ONE CALL LOCATOR 1-800-545-6005 OR 811
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR RESTORING EXISTING FENCES, CURBS, STREETS, DRIVEWAYS, SIDEWALKS, LANDSCAPING AND STRUCTURES TO ITS ORIGINAL OR BETTER CONDITION IF DAMAGES ARE MADE AS A RESULT OF THE PROJECT'S CONSTRUCTION.
- ALL WORK IN TEXAS DEPARTMENT OF TRANSPORTATION (TXDOT) AND/OR BEXAR COUNTY RIGHT-OF-WAY SHALL BE DONE IN ACCORDANCE WITH RESPECTIVE CONSTRUCTION SPECIFICATIONS AND PERMIT REQUIREMENTS.
- THE CONTRACTOR SHALL COMPLY WITH CITY OF SAN ANTONIO OR OTHER GOVERNING MUNICIPALITY'S TREE ORDINANCES WHEN EXCAVATING NEAR TREES.
- THE CONTRACTOR SHALL NOT PLACE ANY WASTE MATERIALS IN THE 100—YEAR FLOOD PLAIN WITHOUT FIRST OBTAINING AN APPROVED FLOOD PLAIN PERMIT.
- HOLIDAY WORK: CONTRACTORS WILL NOT BE ALLOWED TO PERFORM SAWS WORK ON SAWS RECOGNIZED HOLIDAYS, REQUEST SHOULD BE SENT TO CONSTWORKREQ@SAWS.ORG.

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

ANY AND ALL SAWS UTILITY WORK INSTALLED WITHOUT HOLIDAY/WEEKEND APPROVAL WILL BE SUBJECT TO BE UNCOVERED FOR PROPER INSPECTION.

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

SAWS WATER NOTES

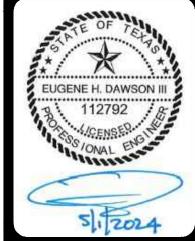
- PRIOR TO TIE-INS, ANY SHUTDOWNS OF EXISTING MAINS OF ANY SIZE MUST BE COORDINATED WITH THE SAWS CONSTRUCTION INSPECTION DIVISION AT LEAST ONE WEEK IN ADVANCE OF THE SHUTDOWN. THE CONTRACTOR MUST ALSO PROVIDE A SEQUENCE OF WORK AS RELATED TO THE TIE-INS; THIS IS AT NO ADDITIONAL COST TO SAWS OR THE PROJECT AND IT IS THE ACCORDINGLY.
 - FOR WATER MAINS 12" OR HIGHER: SAWS EMERGENCY OPERATIONS CENTER (210) 233-2014
- ASBESTOS CEMENT (AC) PIPE, ALSO KNOWN AS TRANSITE PIPE WHICH IS KNOWN TO CONTAIN ASBESTOS- CONTAINING MATERIAL (ACM), MAY BE LOCATED WITHIN THE PROJECT LIMITS. SPECIAL WASTE MANAGEMENT PROCEDURES AND HEALTH AND SAFETY REQUIREMENTS WILL BE APPLICABLE WHEN REMOVAL AND/OR DISTURBANCE OF THIS PIPE OCCURS. SUCH WORK IS TO BE MADE UNDER SPECIAL SPECIFICATION ITEM NO. 3000, "SPECIAL SPECIFICATION FOR HANDLING ASBESTOS CEMENT PIPE".
- VALVE REMOVAL: WHERE THE CONTRACTOR IS TO ABANDON A WATER MAIN, THE CONTROL VALVE LOCATED ON THE ABANDONING BRANCH WILL BE REMOVED AND REPLACED WITH A CAP/PLUG. (NSPI)
- SUITABLE ANCHORAGE/THRUST BLOCKING OR JOINT RESTRAINT SHALL BE PROVIDED AT ALL OF THE FOLLOWING MAIN LOCATIONS: DEAD ENDS, PLUGS, CAPS, TEES, CROSSES, VALVES, AND BENDS, IN ACCORDANCE WITH THE STANDARD DRAWINGS DD-839 SERIES AND ITEM NO. 839, IN THE SAWS STANDARD SPECIFICATIONS FOR CONSTRUCTION.
- 5. ALL VALVES SHALL READ "OPEN RIGHT".
- 6. PRVS REQUIRED: CONTRACTOR TO VERIFY THAT NO PORTION OF THE TRACT IS BELOW GROUND ELEVATION OF 565 FEET WHERE THE STATIC PRESSURE WILL NORMALLY EXCEED 80 PSI. AT ALL SUCH LOCATIONS WHERE THE GROUND LEVEL IS BELOW 565 FEET, THE DEVELOPER OR BUILDER SHALL INSTALL AT EACH LOT, ON THE CUSTOMER'S SIDE OF THE METER, AN APPROVED TYPE PRESSURE REGULATOR IN CONFORMANCE WITH THE PLUMBING CODE OF THE CITY OF SAN ANTONIO. NO DUAL SERVICES ALLOWED FOR ANY LOT(S) IF *PRV IS/ARE REQUIRED FOR SUCH LOT(S), ONLY SINGLE SERVICE CONNECTIONS SHALL BE ALLOWED. *NOTE: 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.
- FINAL CONNECTION TO THE EXISTING WATER MAIN SHALL NOT BE MADE | 14. SAWS REQUIRES LEAD FREE (< 0.25%) FIRE HYDRANTS. UNTIL THE WATER MAIN HAS BEEN PRESSURE TESTED, CHLORINATED, AND SAWS HAS RELEASED THE MAIN FOR TIE-IN AND USE.
- 10. DIVISION VALVES: DIVISION VALVES SHOWN ON PLANS OR NOT SHOWN ON PLANS BUT FOUND IN THE FIELD SHALL ONLY BE OPERATED BY SAWS DISTRIBUTION AND COLLECTION STAFF AND ONLY WITH PRIOR WRITTEN APPROVAL OF THE SAWS DIRECTOR OF PRODUCTION AND OPERATIONS AND PROPER COORDINATION WITH ALL SAWS DEPARTMENTS. CONTRACTOR SHALL PROVIDE WRITTEN NOTIFICATION TO THE INSPECTOR A MINIMUM OF TWO WEEKS IN ADVANCE TO START THE COORDINATION PROCESS AND WILL BE INFORMED BY THE INSPECTOR WHEN THE DIVISION VALVE WILL BE OPERATED BY THE SAWS DISTRIBUTION AND COLLECTION STAFF. THE DIVISION VALVE CAN ONLY BE OPERATED BY SAWS DISTRIBUTION AND COLLECTION STAFF MEMBER NOT THE INSPECTOR OR THE CONTRACTOR. OPERATION OF 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.
- 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 CONTRACTOR, HIS EMPLOYEE OR ANY OTHER MEANS, SUCH STAKES, MARKS, ETC., SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.
 - THE CONTRACTOR SHALL FURNISH THE ENGINEER WITH ALL THE FINAL MEASUREMENTS, TAPS AND LENGTH OF SERVICE CONNECTIONS.
 - THE LOT CORNERS WILL BE SET BY THE ENGINEER FOR INSTALLATION OF 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.

 - 15. UNLESS OTHERWISE NOTED ALL SERVICES SHALL BE 3/4" WITH 5/8" METER.



3

ADDRESS: 100 NE LOOP 410, STE 1155 CITY: SAN ANTONIO

NUMBER OF LOTS 164 SAWS JOB NO. 23-1116

DESIGNER CHECKED DW DRAWN

- _{NO.} 23-1180021

12482-09

WATER (SAWS PRESSURE ZONE 750)

DEVELOPER'S NAME: <u>LENNAR HOMES OF TEXAS</u>

SAWS BLOCK MAP# 204524 TOTAL EDU'S 170 TOTAL ACREAGE 22.70 TOTAL LINEAR FOOTAGE OF PIPE: 4,541 L.F.~8"PVC PLAT NO.23-11800210



EUGENE H. DAWSON III 112792

SEWER LEGEND

FF = XXXX.XX

ANTONIO

ČITY OF ELMENDORF

VNAE FINISHED GROUND/PAVEMENT (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 CROSSING PROPOSED SANITARY SEWER LINE

> TYPICAL SANITARY SEWER/WATER CROSSING DETAIL

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

ANY UTILITY CONFLICTS THAT ARISE SHOULD BE COMMUNICATED TO THE ENGINEER IMMEDIATELY AND PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL CONTACT 1-800-DIG-TESS A MINIMUM OF 48 HOURS PRIOR TO THE START OF CONSTRUCTION. ANY DAMAGE TO EXISTING UTILITIES SHALL B THE SOLE RESPONSIBILITY OF THE CONTRACTOR AND THE REPAIR SHALL B AT CONTRACTOR'S SOLE EXPENSE WHETHER THE UTILITY IS SHOWN OF

FINISHED FLOOR NOTES:

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

A BEXAR COUNTY PERMIT MUST BE OBTAINED BEFORE WORKING IN BEXAF

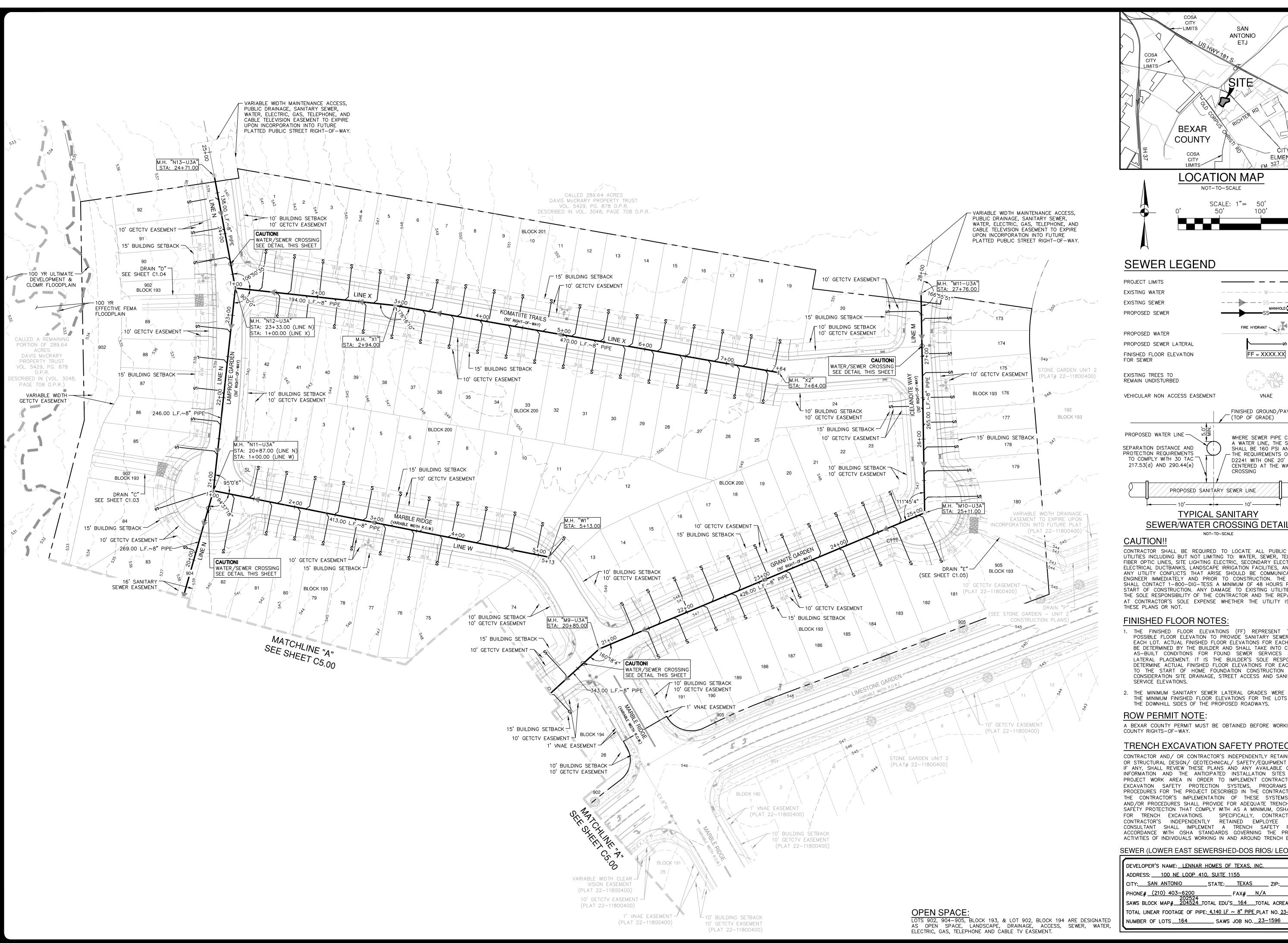
TRENCH EXCAVATION SAFETY PROTECTION:

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 TI 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/OF CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR SAFETY CONSULTANT SHALL IMPLEMENT A TRENCH SAFETY PROGRAM I ACCORDANCE WITH OSHA STANDARDS GOVERNING THE PRESENCE AN ACTIVITIES OF INDIVIDUALS WORKING IN AND AROUND TRENCH EXCAVATION.

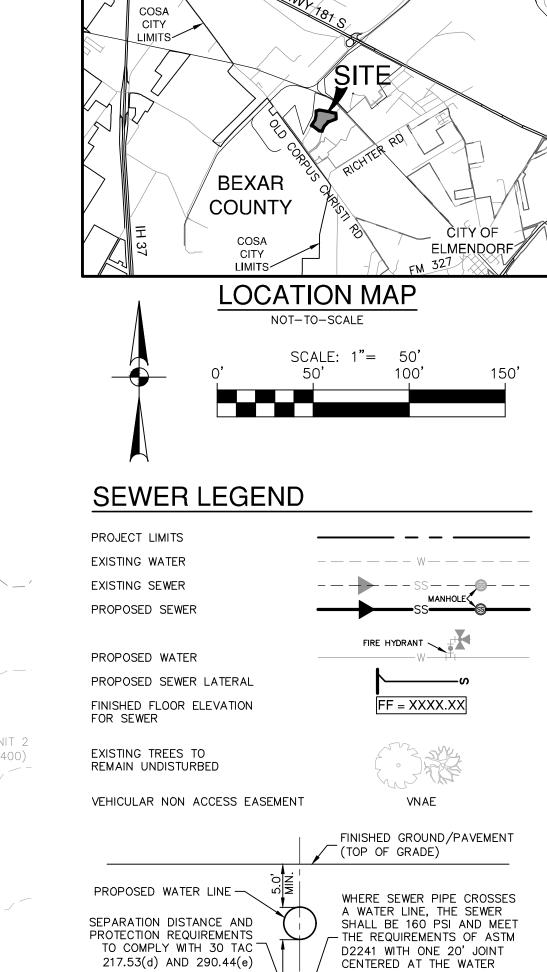
SEWER (LOWER EAST SEWERSHED-DOS RIOS/ LEON CREEK)

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
SAWS BLOCK MAP# 204524 TOTAL EDU'S 164 TOTAL ACREAGE 22.70
TOTAL LINEAR FOOTAGE OF PIPE: 4,140 LF ~ 8" PIPE PLAT NO. 23-11800210
NUMBER OF LOTE 164 SAWS JOR NO. 23-1596

_AT NO. 23-1180021 12482-09 DESIGNER CHECKED DW DRAWN J



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.



COSA CITY -LIMITS ,

ANTONIO

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TYPICAL SANITARY

NOT-TO-SCALE

CROSSING

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ROW PERMIT NOTE:

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

TRENCH EXCAVATION SAFETY PROTECTION

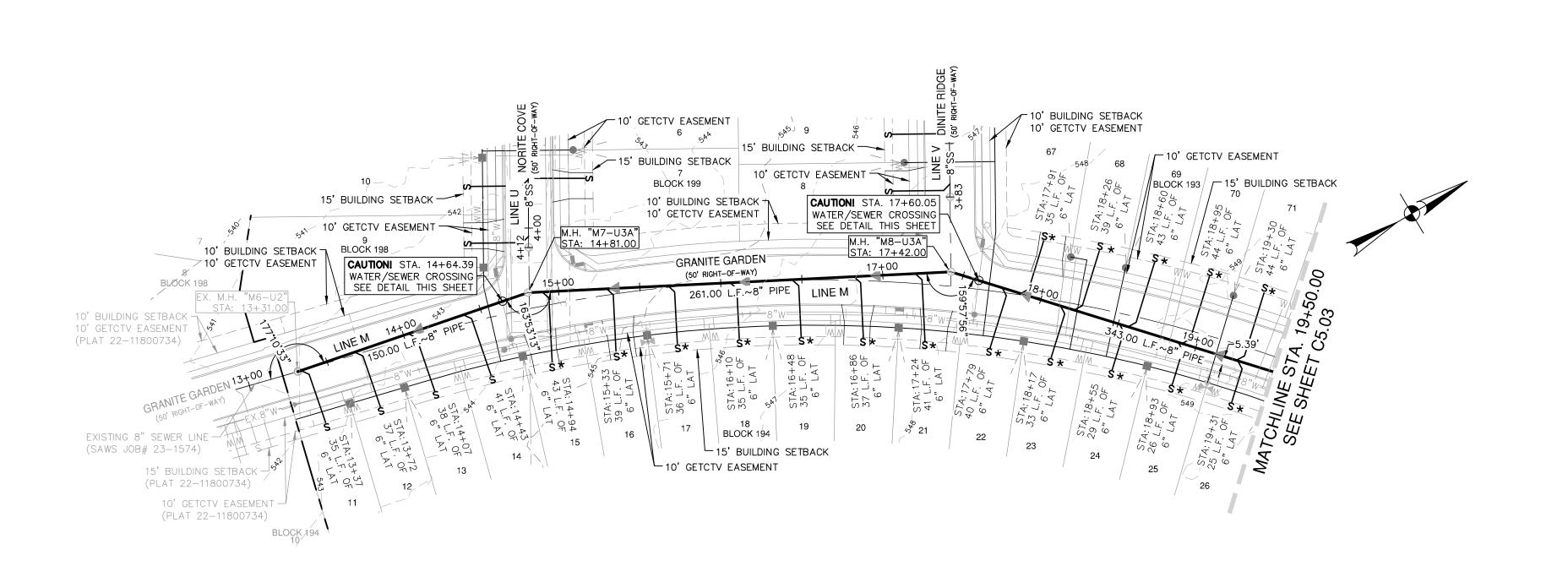
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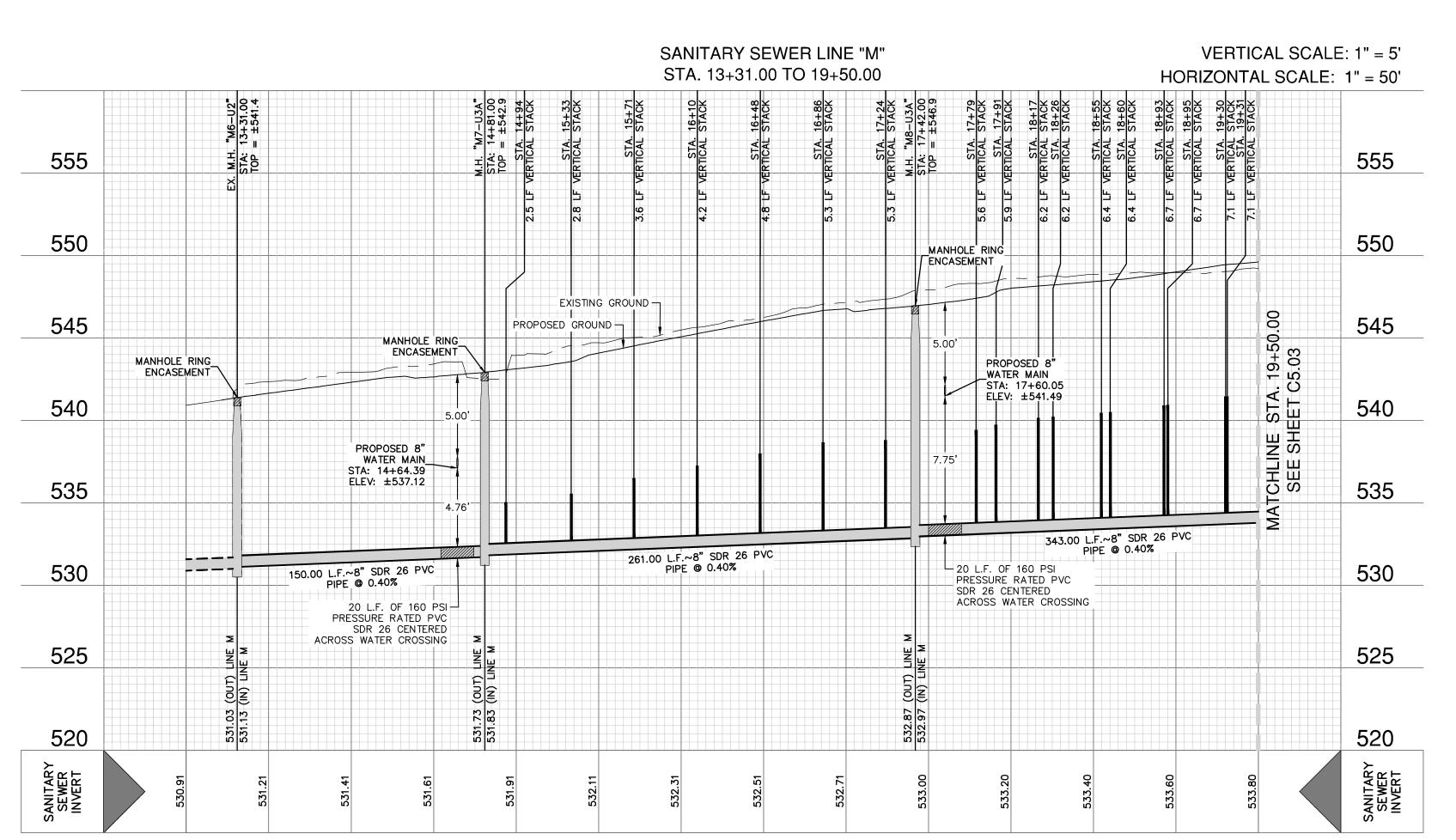
SEWER (LOWER EAST SEWERSHED-DOS RIOS/ LEON CREEK)

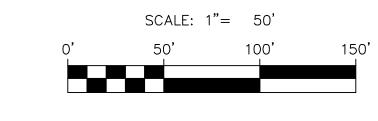
	DEVELOPER'S NAME: LENNAR HOMES OF TEXAS, INC.
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	TOTAL LINEAR FOOTAGE OF PIPE: 4,140 LF ~ 8" PIPE PLAT NO. 23-11800210
)	NUMBER OF LOTS 164 SAWS JOB NO. 23-1596

EUGENE H. DAWSON III

PLAT NO. 23-1180021 12482-09 MAY 2024 DESIGNER CHECKED DW DRAWN J







SEWER LEGEND

PROJECT LIMITS EXISTING WATER EXISTING SEWER PROPOSED SEWER

F = XXXX.XX

VNAE

PROPOSED SEWER LATERAL FINISHED FLOOR ELEVATION FOR SEWER

PROPOSED WATER

EXISTING TREES TO REMAIN UNDISTURBED

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



EUGENE H. DAWSON III

3

ER LINE M -31.00 TO

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 NOT-TO-SCALE

CAUTION!!

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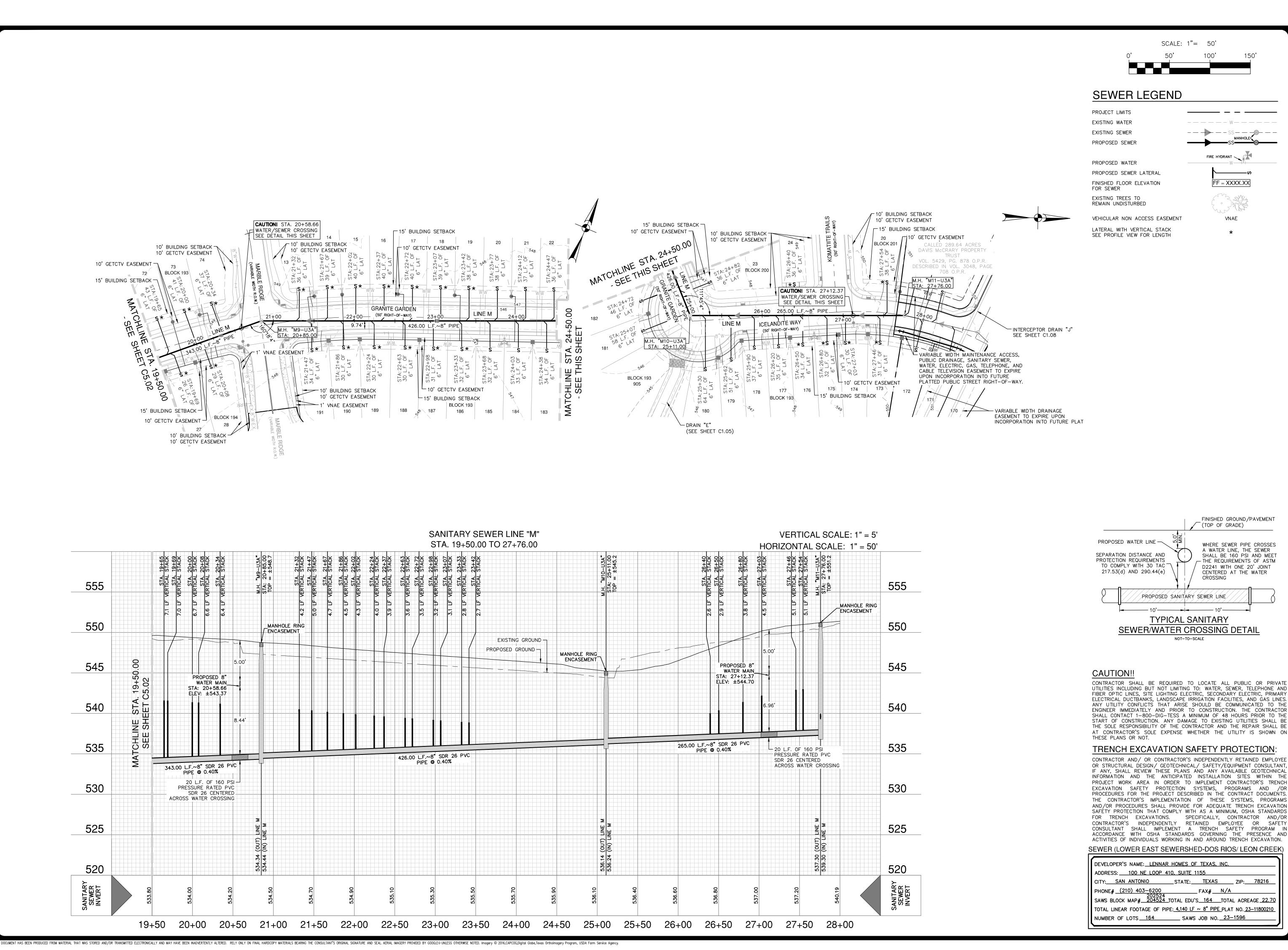
SEWER (LOWER EAST SEWERSHED-DOS RIOS/ LEON CREEK)

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 164 TOTAL ACREAGE 22.70 TOTAL LINEAR FOOTAGE OF PIPE: 4,140 LF ~ 8" PIPE PLAT NO. 23-11800210

NUMBER OF LOTS 164 SAWS JOB NO. 23-1596

PLAT NO. 23-1180021 12482-09 MAY 2024 DESIGNER CHECKED DW DRAWN JF

13+00 13+50 14+00 14+50 15+00 15+50 16+00 16+50 17+00 17+50 18+00 18+50 19+00 19+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.



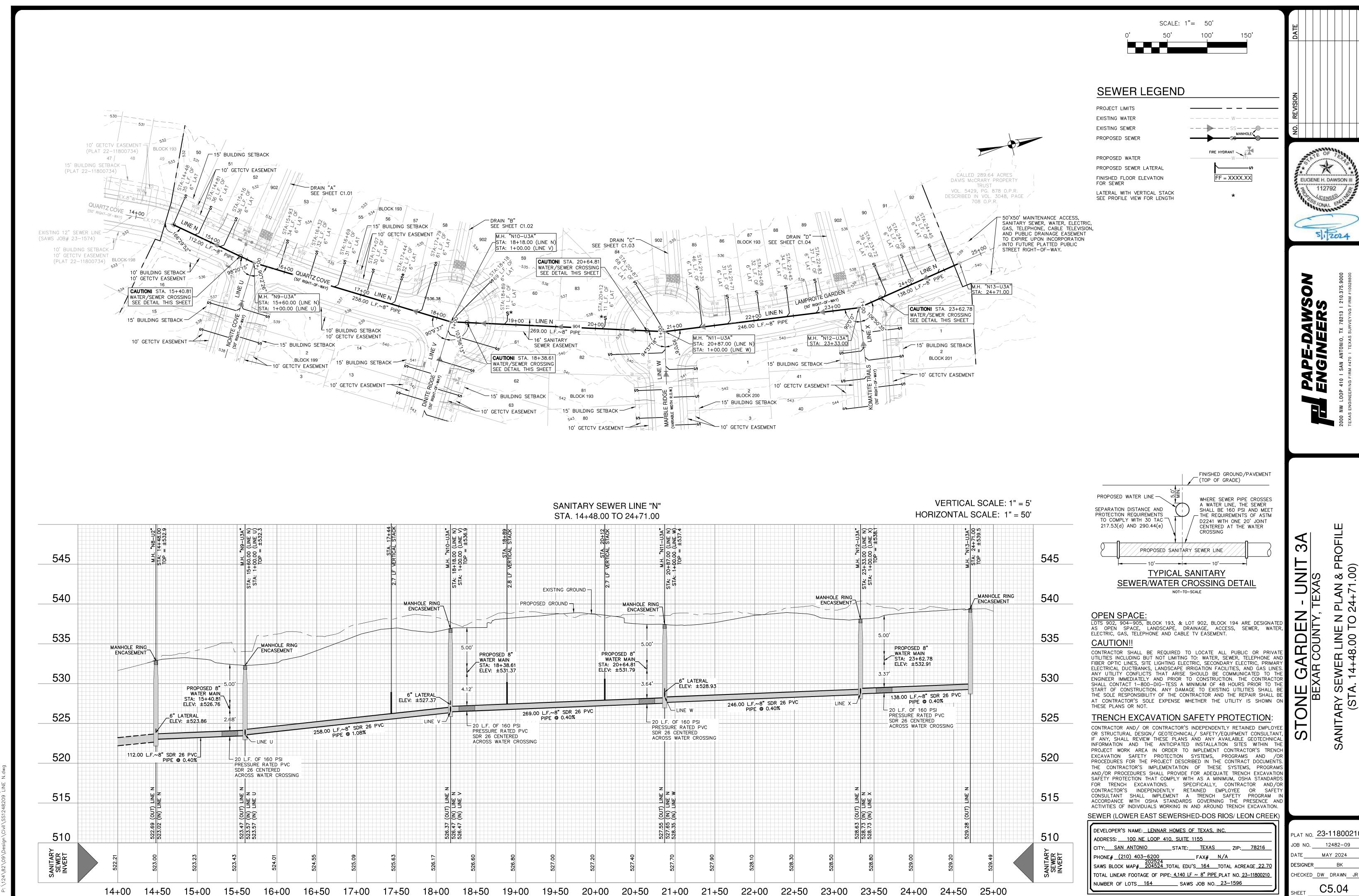


3

ER LINE M -50.00 TO 2

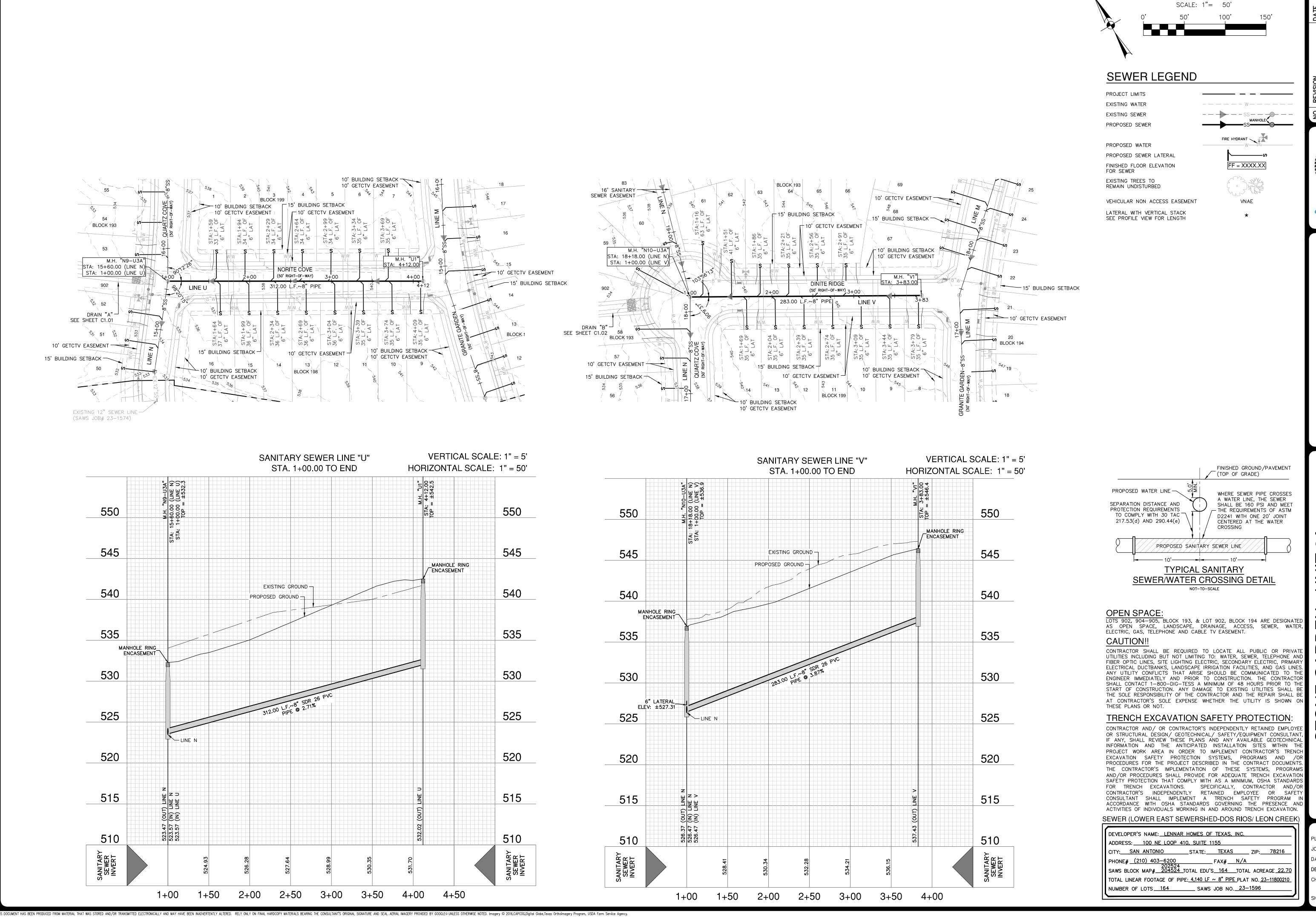
PLAT NO. 23-1180021 12482-09 MAY 2024 DESIGNER

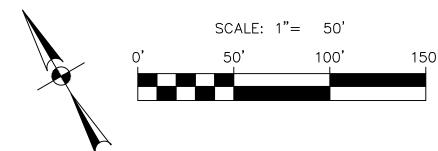
CHECKED DW DRAWN JF



MAY 2024 CHECKED DW DRAWN JF

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.



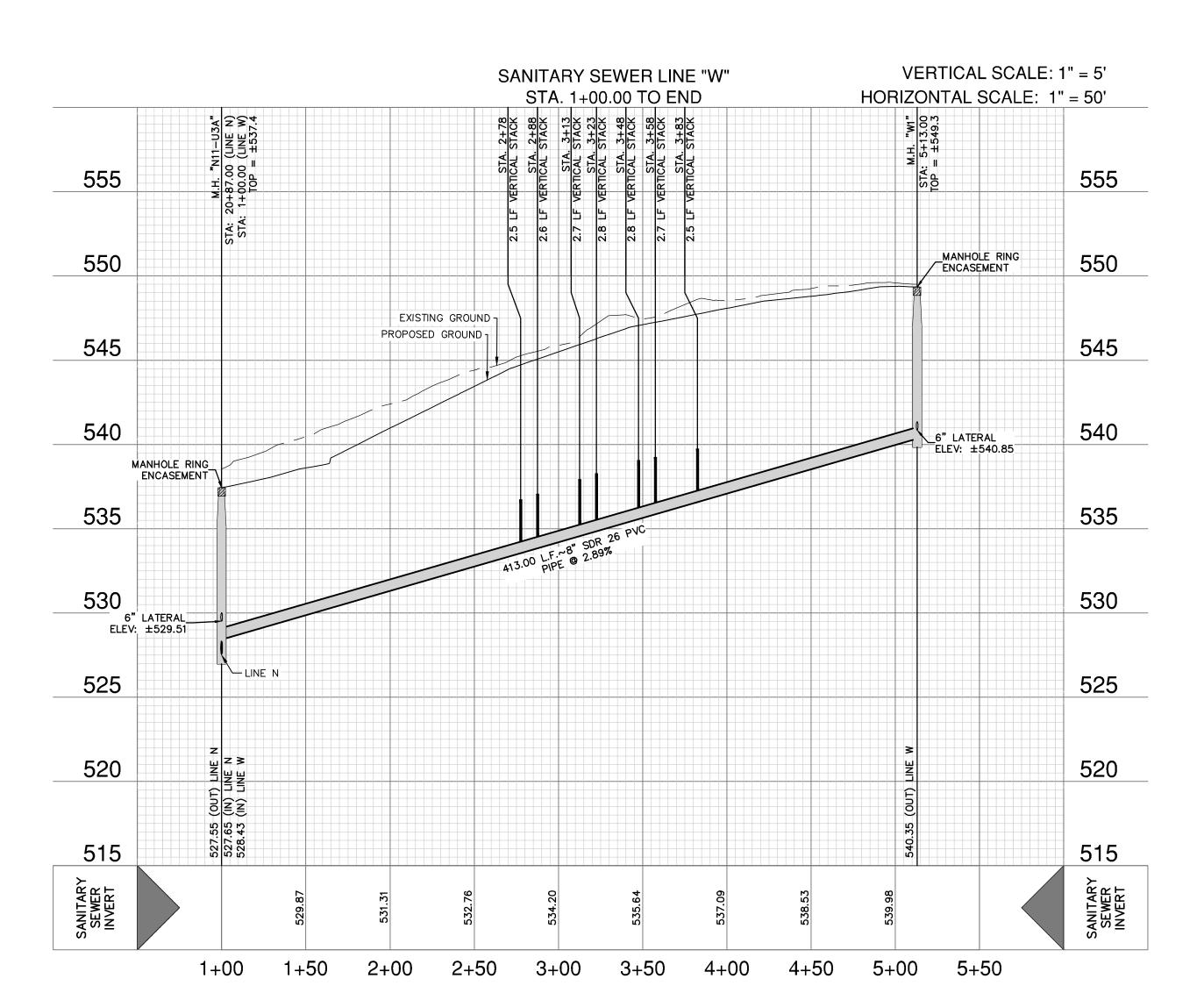


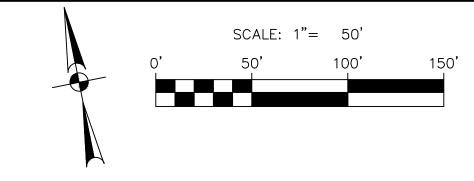
EUGENE H. DAWSON I

3 PLAN END) DE

PLAT NO. 23-1180021 12482-09 MAY 2024

DESIGNER CHECKED DW DRAWN JR





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

FF = XXXX.XX

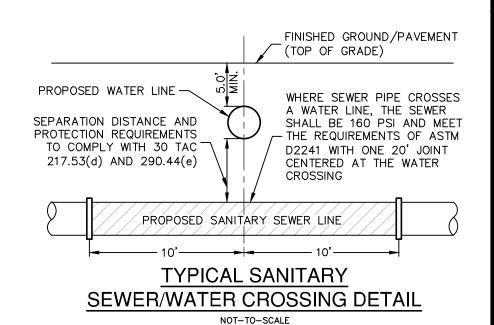
VNAE

EUGENE H. DAWSON II

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ANIT

LAN 8 END)



OPEN SPACE: LOTS 902, 904-905, BLOCK 193, & LOT 902, BLOCK 194 ARE DESIGNATED AS OPEN SPACE, LANDSCAPE, DRAINAGE, ACCESS, SEWER, WATER, ELECTRIC, GAS, TELEPHONE AND CABLE TV EASEMENT. CAUTION!!

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SEWER (LOWER EAST SEWERSHED-DOS RIOS/ LEON CREEK)

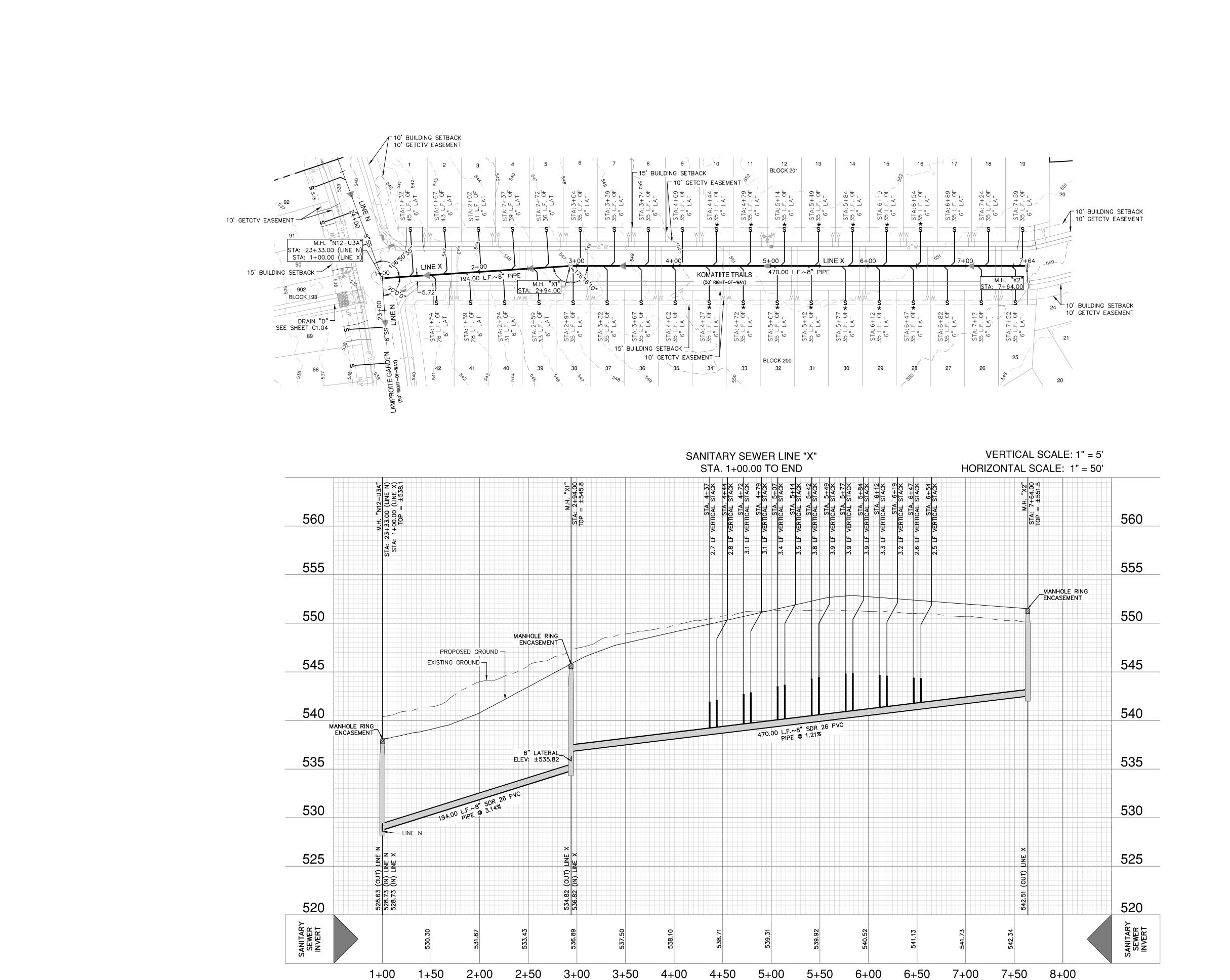
_____ SAWS JOB NO. 23-1596

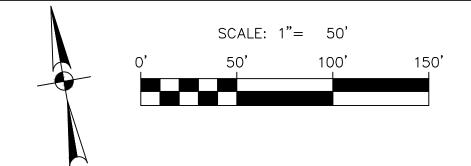
DEVELOPER'S NAME: <u>LENNAR HOMES OF TEXAS, INC.</u> ADDRESS: <u>100 NE LOOP 410, SUITE 1155</u>
ADDRESS: 100 NE LOOP 410, SUITE 1155
CITY: SAN ANTONIO STATE: TEXAS ZIP: 78216
PHONE# (210) 403-6200 FAX# N/A
SAWS BLOCK MAP# 204524 TOTAL EDU'S 164 TOTAL ACREAGE 22.70
PHONE# (210) 403-6200 FAX# N/A SAWS BLOCK MAP# 204524 TOTAL EDU'S 164 TOTAL ACREAGE 22.70 TOTAL LINEAR FOOTAGE OF PIPE: 4,140 LF ~ 8" PIPE PLAT NO. 23-11800210

NUMBER OF LOTS 164

PLAT NO. 23-11800210 12482-09 MAY 2024 DESIGNER CHECKED DW DRAWN JF

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.





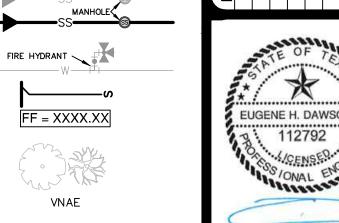
SEWER LEGEND

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

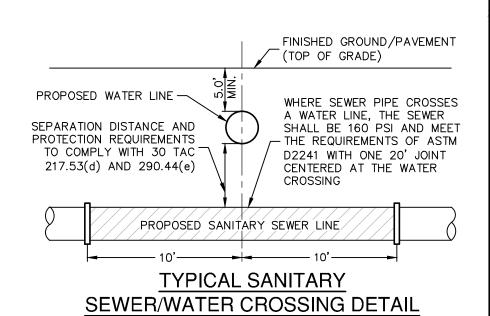


EUGENE H. DAWSON III

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X PLAN & TO END)

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SEWER (LOWER EAST SEWERSHED-DOS RIOS/ LEON CREEK)

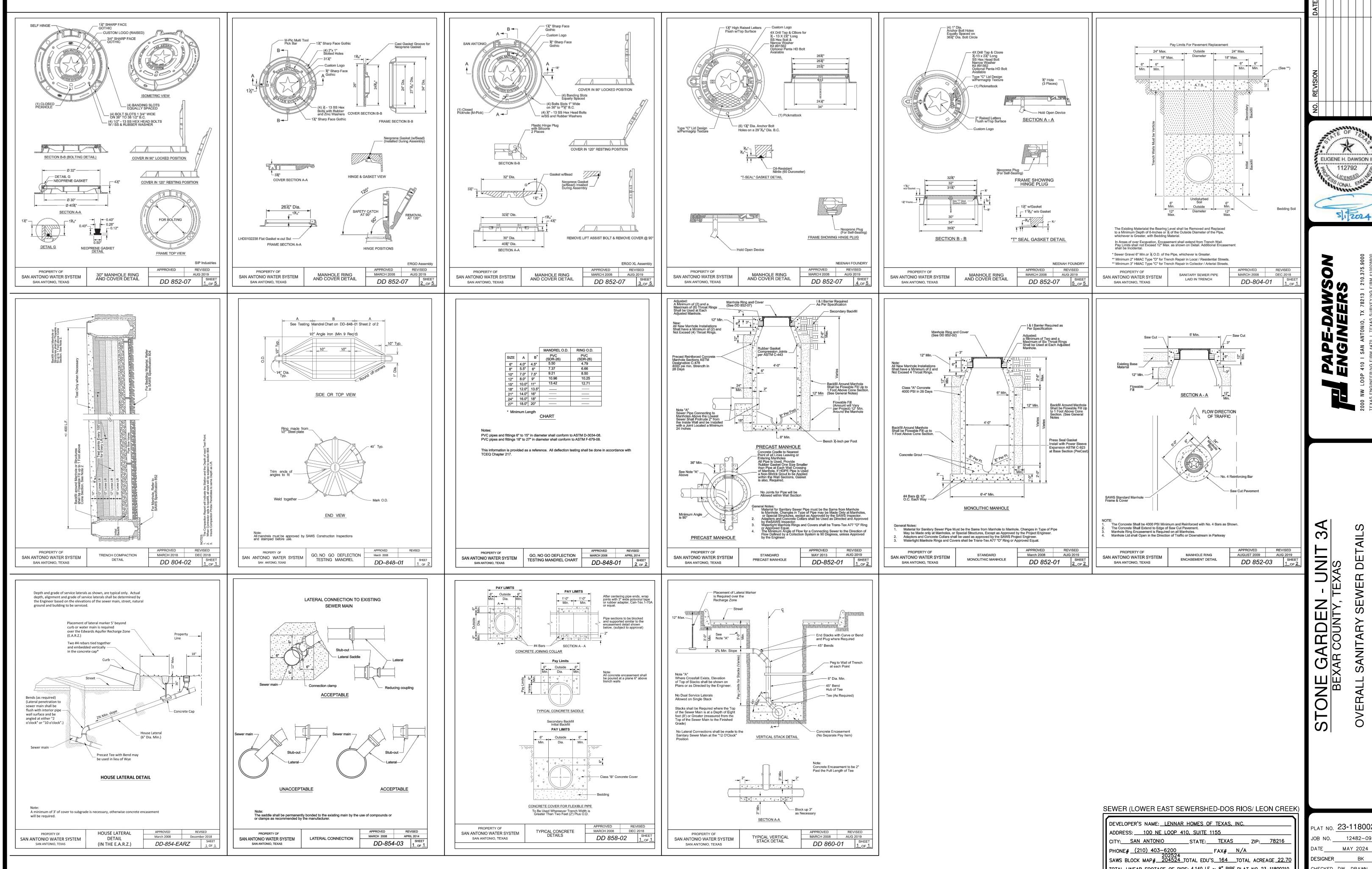
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CITY: SAN ANTONIO STATE: TEXAS ZIP: 78216						
PHONE# (210) 403-6200 FAX# N/A						
SAWS BLOCK MAP# 204524 TOTAL EDU'S 164 TOTAL ACREAGE 22.70						
TOTAL LINEAR FOOTAGE OF PIPE: 4,140 LF ~ 8" PIPE PLAT NO. 23-11800210						

NUMBER OF LOTS 164 SAWS JOB NO. 23-1596

PLAT NO. 23-1180021 12482-09 MAY 2024 DESIGNER

CHECKED DW DRAWN JF

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		B. CURREN HIGHWA` C. CURREN WATER
		WATER D. CURREN WORKS E. CURREN (UECM).
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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.

SAWS CONSTRUCTION NOTES (LAST REVISED JANUARY 2022)

GENERAL SECTION

- FERIALS AND CONSTRUCTION PROCEDURES WITHIN THE SCOPE OF THIS CT SHALL BE APPROVED BY THE SAN ANTONIO WATER SYSTEM (SAWS) AND WITH THE PLANS, SPECIFICATIONS, GENERAL CONDITIONS AND WITH THE NG AS APPLICABLE:
 - RRENT TEXAS COMMISSION ON ENVIRONMENTAL QUALITY (TCEQ) 'DESIGN TERIA FOR DOMESTIC WASTEWATER SYSTEM", TEXAS ADMINISTRATIVE (TAC) TITLE 30 PART 1 CHAPTER 217 AND "PUBLIC DRINKING TER", TAC TITLE 30 PART 1 CHAPTER 290.
 - RRENT TXDOT "STANDARD SPECIFICATIONS FOR CONSTRUCTION OF HWAYS, STREETS AND DRAINAGE". RRENT "SAN ANTONIO WATER SYSTEM STANDARD SPECIFICATIONS FOR
- TER AND SANITARY SEWER CONSTRUCTION" RRENT CITY OF SAN ANTONIO "STANDARD SPECIFICATIONS FOR PUBLIC RKS CONSTRUCTION". RRENT CITY OF SAN ANTONIO "UTILITY EXCAVATION CRITERIA MANUAL"
- NTRACTOR SHALL NOT PROCEED WITH ANY PIPE INSTALLATION WORK UNTIL
- BTAIN A COPY OF THE APPROVED COUNTER PERMIT OR GENERAL JCTION PERMIT (GCP) FROM THE CONSULTANT AND HAS BEEN NOTIFIED BY NSTRUCTION INSPECTION DIVISION TO PROCEED WITH THE WORK AND HAS D A MEETING WITH THE INSPECTOR AND CONSULTANT FOR THE WORK MENTS. WORK COMPLETED BY THE CONTRACTOR WITHOUT AN APPROVED PERMIT AND/OR A GCP WILL BE SUBJECT TO REMOVAL AND EMENT AT THE EXPENSE OF THE CONTRACTORS AND/OR THE DEVELOPER.
- NTRACTOR SHALL OBTAIN THE SAWS STANDARD DETAILS FROM THE SAWS HTTP: //WWW.SAWS.ORG/BUSINESS_CENTER/SPECS. UNLESS OTHERWISE
- NTRACTOR IS TO MAKE ARRANGEMENTS WITH THE SAWS CONSTRUCTION 233-2973, ON NOTIFICATION PROCEDURES THAT WILL BE USED TO NOTIFY ED HOME RESIDENTS AND/OR PROPERTY OWNERS 48 HOURS PRIOR TO NG ANY WORK.
- AND DEPTH OF EXISTING UTILITIES AND SERVICE LATERALS SHOWN ON ANS ARE UNDERSTOOD TO BE APPROXIMATE. ACTUAL LOCATIONS AND MUST BE FIELD VERIFIED BY THE CONTRACTOR AT LEAST 1 WEEK PRIOR TO UCTION. 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.
- NTRACTOR SHALL VERIFY THE EXACT LOCATION OF UNDERGROUND UTILITIES RAINAGE STRUCTURES AT LEAST 1-2 WEEKS PRIOR TO CONSTRUCTION SHOWN ON PLANS OR NOT. PLEASE ALLOW UP TO 7 BUSINESS DAYS FOR REQUESTING PIPE LOCATION MARKERS ON SAWS FACILITIES. THE
 - NG CONTACT INFORMATION ARE SUPPLIED FOR VERIFICATION PURPOSES: WS UTILITY LOCATES: HTTP://WWW.SAWS.ORG/SERVICE/LOCATES
 - A DRAINAGE (210) 207-0724 OR (210) 207-6026 A TRAFFIC SIGNAL OPERATIONS (210) 206-8480 TRAFFIC SIGNAL DAMAGES (210) 207-3951
 - (AS STATE WIDE ONE CALL LOCATOR 1-800-545-6005 OR 811
- ITRACTOR SHALL BE RESPONSIBLE FOR RESTORING EXISTING FENCES, STREETS, DRIVEWAYS, SIDEWALKS, LANDSCAPING AND STRUCTURES TO ITS OR BETTER CONDITION IF DAMAGES ARE MADE AS A RESULT OF THE 'S CONSTRUCTION.
- RK IN TEXAS DEPARTMENT OF TRANSPORTATION (TXDOT) AND/OR BEXAR RIGHT-OF-WAY SHALL BE DONE IN ACCORDANCE WITH RESPECTIVE JCTION SPECIFICATIONS AND PERMIT REQUIREMENTS.
- NTRACTOR SHALL COMPLY WITH CITY OF SAN ANTONIO OR OTHER ING MUNICIPALITY'S TREE ORDINANCES WHEN EXCAVATING NEAR TREES.
- NTRACTOR SHALL NOT PLACE ANY WASTE MATERIALS IN THE 100-YEAR PLAIN WITHOUT FIRST OBTAINING AN APPROVED FLOOD PLAIN PERMIT.
- ECOGNIZED HOLIDAYS. REQUEST SHOULD BE SENT TO RKREQ@SAWS.ORG.

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

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

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

SAWS SEWER NOTES

- THE CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT NO SANITARY SEWER OVERFLOW (SSO) OCCURS AS A RESULT OF THEIR WORK. ALL CONTRACTOR PERSONNEL RESPONSIBLE FOR SSO PREVENTION AND CONTROL SHALL BE TRAINED ON PROPER RESPONSE. SHOULD AN SSO OCCUR, THE CONTRACTOR SHALL:
- A. IDENTIFY THE SOURCE OF THE SSO AND NOTIFY SAWS EMERGENCY OPERATIONS CENTER (EOC) IMMEDIATELY AT (210) 233-2014. PROVIDE THE ADDRESS OF THE SPILL AND AN ESTIMATED VOLUME OR FLOW.
- B.ATTEMPT TO ELIMINATE THE SOURCE OF THE SSO. C.CONTAIN SEWAGE FROM THE SSO TO THE EXTENT OF PREVENTING A POSSIBLE CONTAMINATION OF WATERWAYS.
- D.CLEAN UP SPILL SITE (RETURN CONTAINED SEWAGE TO THE
- COLLECTION SYSTEM IF POSSIBLE) AND PROPERLY DISPOSE OF CONTAMINATED SOIL/MATERIALS.
- E.CLEAN THE AFFECTED SEWER MAINS AND REMOVE ANY DEBRIS. F.MEET ALL POST-SSO REQUIREMENTS AS PER THE EPA CONSENT DECREE, INCLUDING LINE CLEANING AND TELEVISING THE AFFECTED SEWER MAINS (AT SAWS DIRECTION) WITHIN 24 HOURS.

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

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

. IF BYPASS PUMPING IS REQUIRED, THE CONTRACTOR SHALL PERFORM SUCH WORK IN ACCORDANCE WITH SAWS STANDARD SPECIFICATION FOR WATER AND SANITARY SEWER CONSTRUCTION, ITEM NO. 864, "BYPASS PUMPING".

PRIOR TO TIE-INS, ANY SHUTDOWNS OF EXISTING FORCE MAINS OF ANY SIZE MUST BE COORDINATED WITH THE SAWS CONSTRUCTION INSPECTION DIVISION AT (210) 233-2973 AT LEAST ONE WEEK IN ADVANCE OF THE SHUTDOWN. THE CONTRACTOR MUST ALSO PROVIDE A SEQUENCE OF WORK AS RELATED TO THE TIE-INS; THIS IS AT NO ADDITIONAL COST TO SAWS OR THE PROJECT AND IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO SEQUENCE THE WORK ACCORDINGLY.

SEWER PIPE WHERE WATER LINE CROSSES SHALL BE 160 PSI AND MEET THE REQUIREMENTS OF ASTM D2241, TAC 217.53 AND TCEQ 290.44(E)(4)(B). CONTRACTOR SHALL CENTER A 20' JOINT OF 160 PSI PRESSÙRÉ RÀTED 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.
- . ALL PVC PIPE OVER 14 FEET OF COVER SHALL BE EXTRA STRENGTH WITH MINIMUM PIPE STIFFNESS OF 115 PSI.

WORK: CONTRACTORS WILL NOT BE ALLOWED TO PERFORM SAWS WORK ON PROJECT SEWER NOTES

TO THE PROPERTY LINE.

- ALL RESIDENTIAL SEWER SERVICE LATERALS ARE 6" DIA. AND SHALL BE EXTENDED TO 10' PAST THE PROPERTY LINE AND CAPPED AND SEALED. CONTRACTOR SHALL INSTALL A 2" X 4" STAKE, FOUR (4) FEET LONG, TWO 2) FEET DEEP INTO THE GROUND AT THE END OF EACH SERVICE. NO SEPARATE PAY ITEM.
- CONTRACTOR TO INSTALL CLEANOUTS AT THE R.O.W. 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 MIN. 2% GRADE FROM THE MAIN
- WHEN HORIZONTAL DISTANCE BETWEEN SEWER PIPES AND WATER MAIN IS LESS THAN 9 FOOT OF SEPARATION, SEWER MAIN SHALL BE INSTALLED WITH 150 PSI (MIN) PRESSURE PIPE AND FITTINGS IN ACCORDANCE WITH SAWS CONSTRUCTION CRITERIA FOR CONSTRUCTION OF SEWER MAINS IN THE VICINITY OF WATER MAINS.
- . CONTRACTOR SHALL ENSURE THAT MANHOLES OUTSIDE OF PAVED AREAS ARE SET WITH TOP ELEVATIONS 6" ABOVE FINISHED GRADE WITH CONCRETE
- 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. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY OF ANY DEVIATIONS FROM PLANS PRIOR TO BEGINNING CONSTRUCTION. ANY DAMAGE TO EXISTING UTILITIES, WHETHER SHOWN ON THE PLANS OR NOT, SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO REPAIR, AT HIS EXPENSE.
- I. CONCRETE RING ENCASEMENT TO BE INSTALLED ON ALL MANHOLES AND, WITHIN LIMITS OF PAVEMENT, BE INSTALLED TO THE TOP OF THE BASE LAYER WITH A MINIMUM OF 2" FLUSH 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.

SEWER (LOWER EAST SEWERSHED-DOS RIOS/ LEON CREEK)

DEVELOPER'S NAME: LENNAR HOMES OF TEXAS, INC ADDRESS: 100 NE LOOP 410, SUITE 1155 CITY: SAN ANTONIO STATE: TEXAS ZIP: 78216

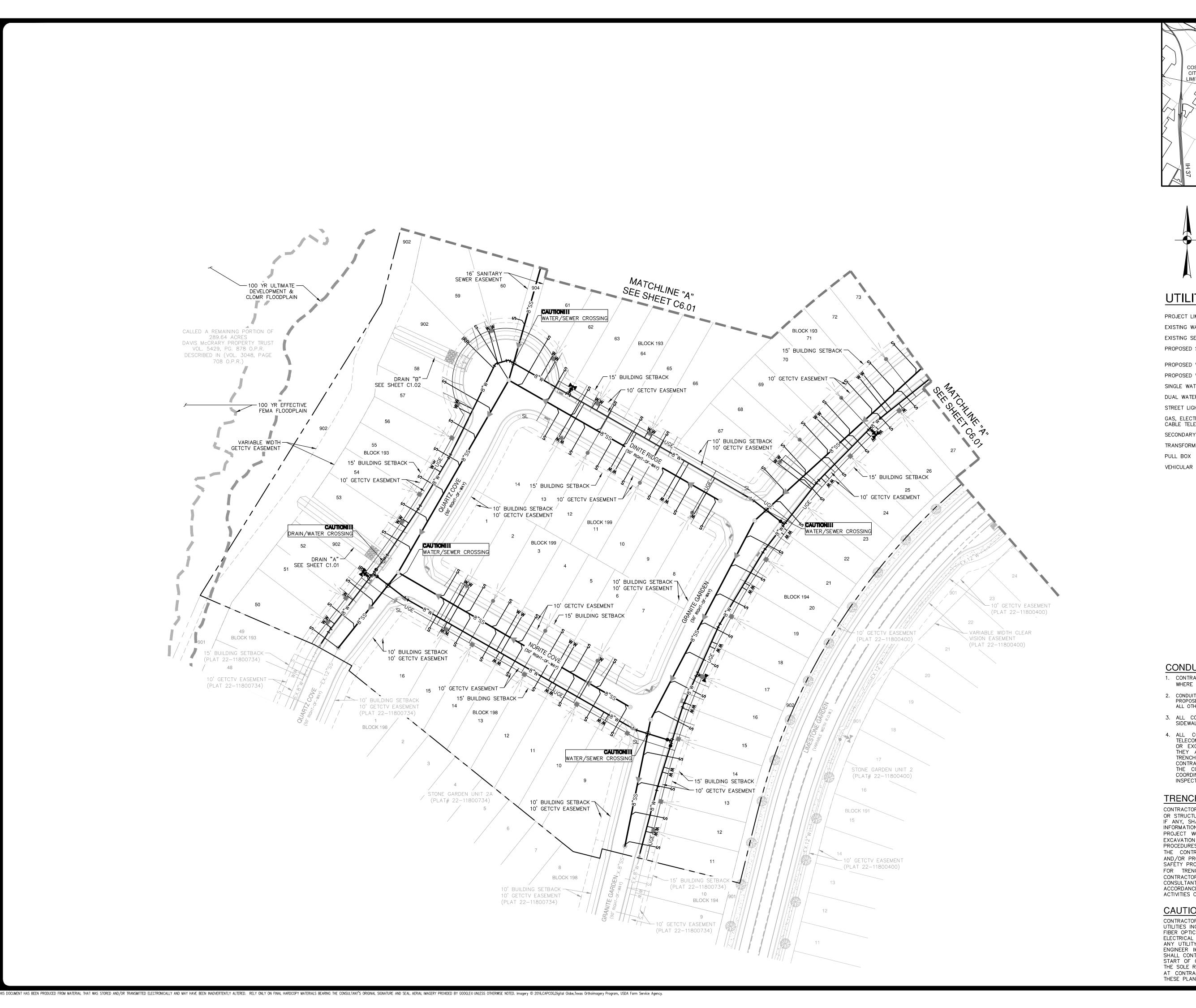
SAWS BLOCK MAP# 204524 TOTAL EDU'S 164 TOTAL ACREAGE 22.70 TOTAL LINEAR FOOTAGE OF PIPE: 4,140 LF ~ 8" PIPE PLAT NO. 23-11800210 NUMBER OF LOTS 164 SAWS JOB NO. 23-1596

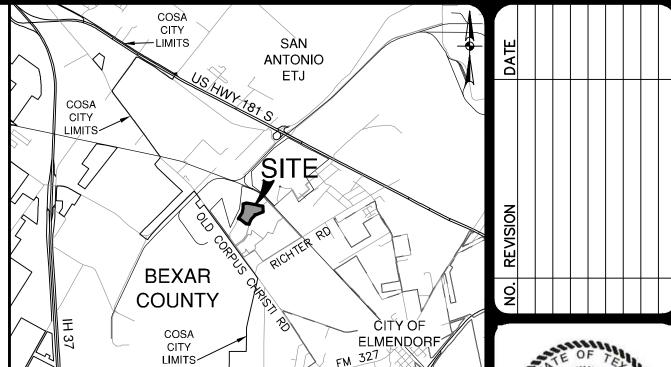
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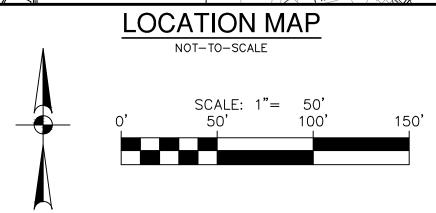
EUGENE H. DAWSON II

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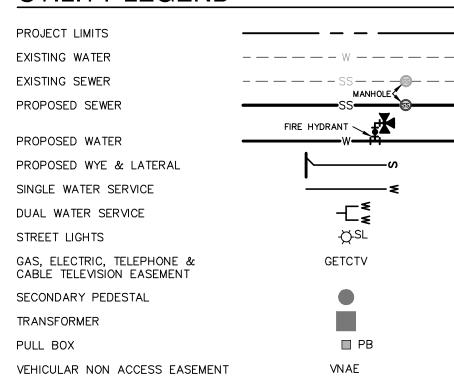
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UTILITY LEGEND



3

EUGENE H. DAWSON III

CONDUIT NOTES:

1. CONTRACTOR SHALL INSTALL PERMANENT MARKERS IN PROPOSED CURI WHERE CONDUITS CROSS THE ROADWAY (BOTH SIDES).

- 2. CONDUITS SHALL BE PVC WITH MINIMUM BURY OF 36 INCHES BELOW PROPOSED FINISHED GRADE. SCHEDULE 80 TO BE USED FOR CPS CONDUITS, ALL OTHER CONDUITS ARE SCHEDULE 40.
- 3. ALL CONDUITS SHALL BE EXTENDED BEHIND CURBS OR PROPOSED SIDEWALKS A MINIMUM OF 3 FEET AND CAPPED FOR FUTURE USE.
- 4. ALL CONDUIT SLEEVES TO BE USED FOR ELECTRIC, GAS, C TELECOMMUNICATION UTILITY CROSSINGS SHALL BE INSTALLED TO MEET OR EXCEED DESIGN REQUIREMENTS FOR THE UTILITY AGENCY WHICH THEY ARE SERVING, INCLUDING BUT NOT LIMITED TO THE DEPTH, TRENCH PLACEMENT, AND PROXIMITY TO OTHER UTILITIES. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR VERIFYING AND INSTALLING THE CONDUIT SLEEVES TO MEET THESE SPECIFICATIONS INCLUDING COORDINATING WITH THE UTILITY AGENCY FOR ANY REQUIRED INSPECTIONS

TRENCH EXCAVATION SAFETY PROTECTION:

CONTRACTOR AND/ OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR STRUCTURAL DESIGN/ GEOTECHNICAL/ SAFETY/EQUIPMENT CONSULTANT, IF ANY, SHALL REVIEW THESE PLANS AND ANY AVAILABLE GEOTECHNICAL INFORMATION AND THE ANTICIPATED INSTALLATION SITES WITHIN THE PROJECT WORK AREA IN ORDER TO IMPLEMENT CONTRACTOR'S TRENCH EXCAVATION SAFETY PROTECTION SYSTEMS, PROGRAMS AND /OR PROCEDURES FOR THE PROJECT DESCRIBED IN THE CONTRACT DOCUMENTS. THE CONTRACTOR'S IMPLEMENTATION OF THESE SYSTEMS, PROGRAMS AND/OR PROCEDURES SHALL PROVIDE FOR ADEQUATE TRENCH EXCAVATION SAFÉTY PROTECTION THAT COMPLY WITH AS A MINIMUM, OSHA STANDARDS FOR TRENCH EXCAVATIONS. SPECIFICALLY, CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR SAFETY CONSULTANT SHALL IMPLEMENT A TRENCH SAFETY PROGRAM IN ACCORDANCE WITH OSHA STANDARDS GOVERNING THE PRESENCE AND ACTIVITIES OF INDIVIDUALS WORKING IN AND AROUND TRENCH EXCAVATION.

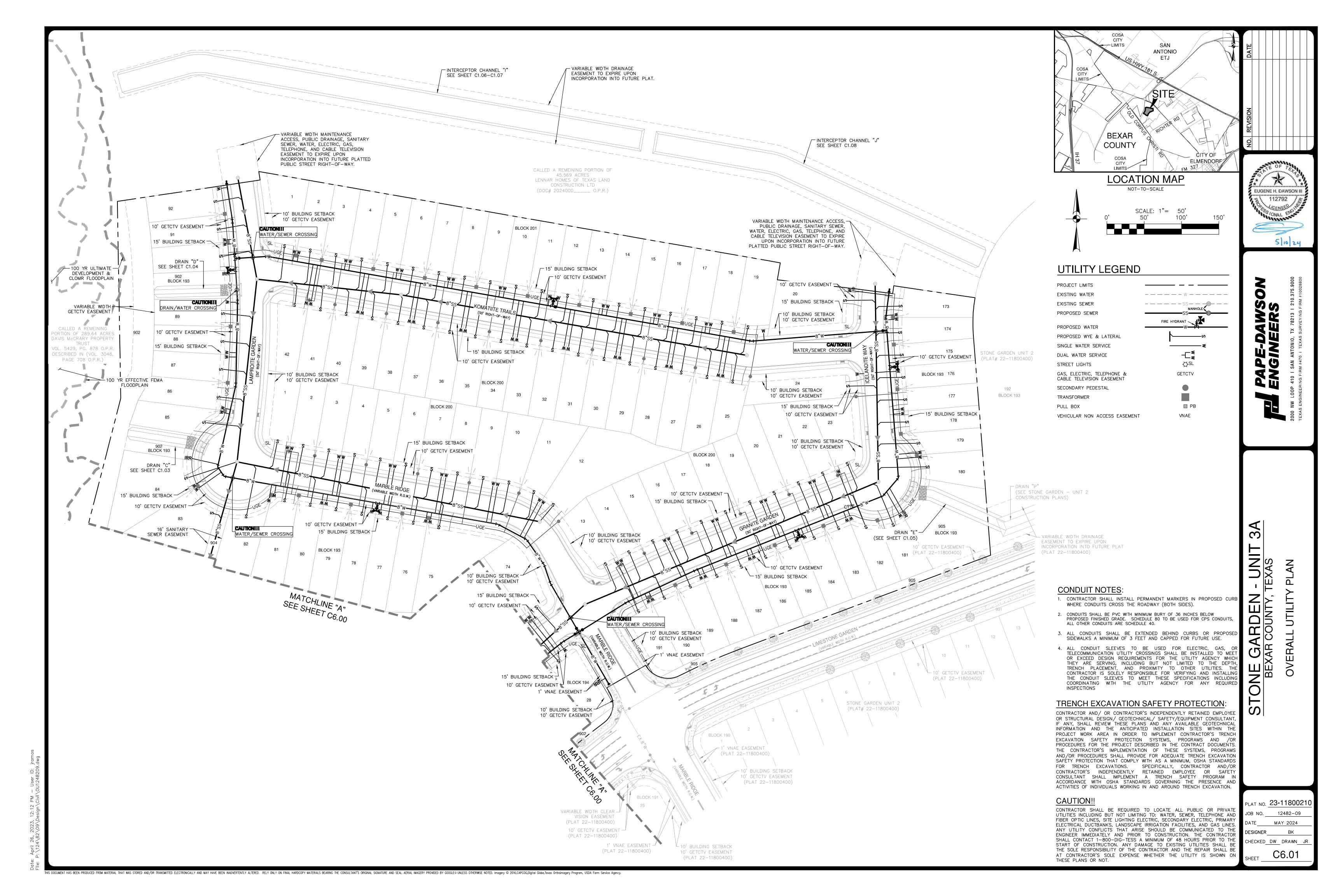
CAUTION!!

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

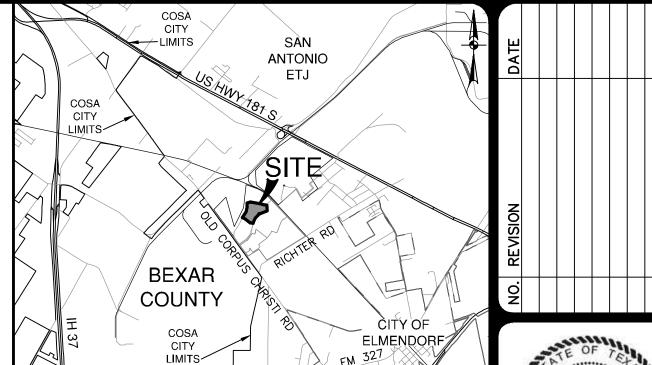
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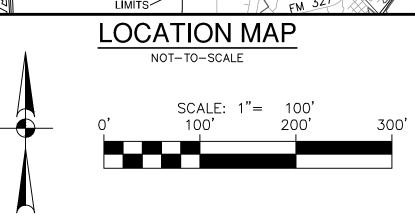
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GRADING LEGEND

PROJECT LIMITS

100 YR FLOODPLAIN

EXISTING CONTOUR

PROPOSED CONTOUR

FLOW ARROW (EXISTING)

FLOW ARROW (EXISTING)
FLOW ARROW (PROPOSED)
MINIMUM FINISHED FLOOR ELEVATION

TREES TO REMAIN

GRADING NOTES:

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

FF = XXXX.XX

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

18. FOR FILL PLACEMENT ON HILL SIDES OR STEEP SLOPE AREAS, THE CONTRACTOR SHALL REFERENCE THE PROJECT SPECIFICATIONS AND GEOTECHNICAL REPORT FOR SPECIAL INSTRUCTIONS REGARDING BENCHING.

19. NO WORK SHALL BE PERFORMED IN A PUBLIC RIGHT-OF-WAY WITHOUT

STONE GARDEN - UNIBEXAR COUNTY, TEXAS

EUGENE H. DAWSON II

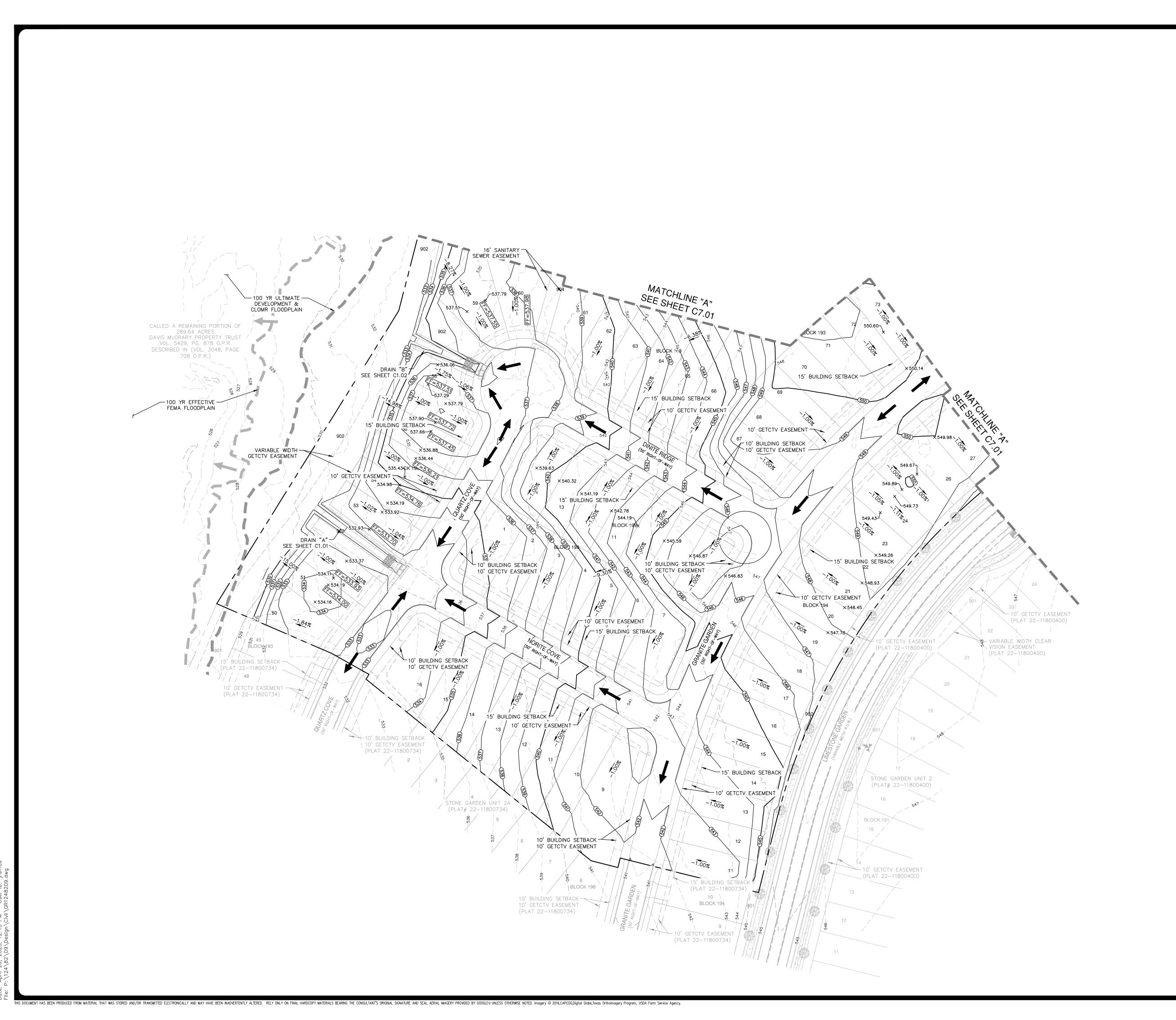
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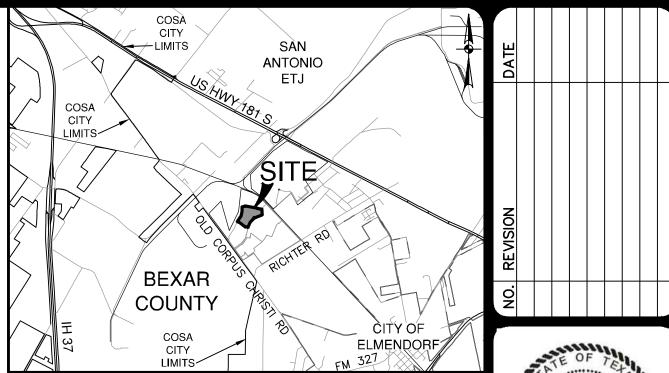
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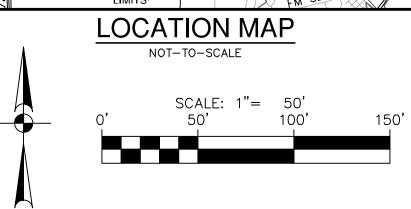
DATE MAY 2024

DESIGNER BK

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EUGENE H. DAWSON III

GRADING LEGEND

PROJECT LIMITS 100 YR FLOODPLAIN EXISTING CONTOUR PROPOSED CONTOUR FLOW ARROW (EXISTING) FLOW ARROW (PROPOSED) MINIMUM FINISHED FLOOR ELEVATION FF = XXXX.XX TREES TO REMAIN

GRADING NOTES:

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

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

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

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

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

IMMEDIATELY OF ANY DISCREPANCIES.

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

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

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

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

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

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

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

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

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

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

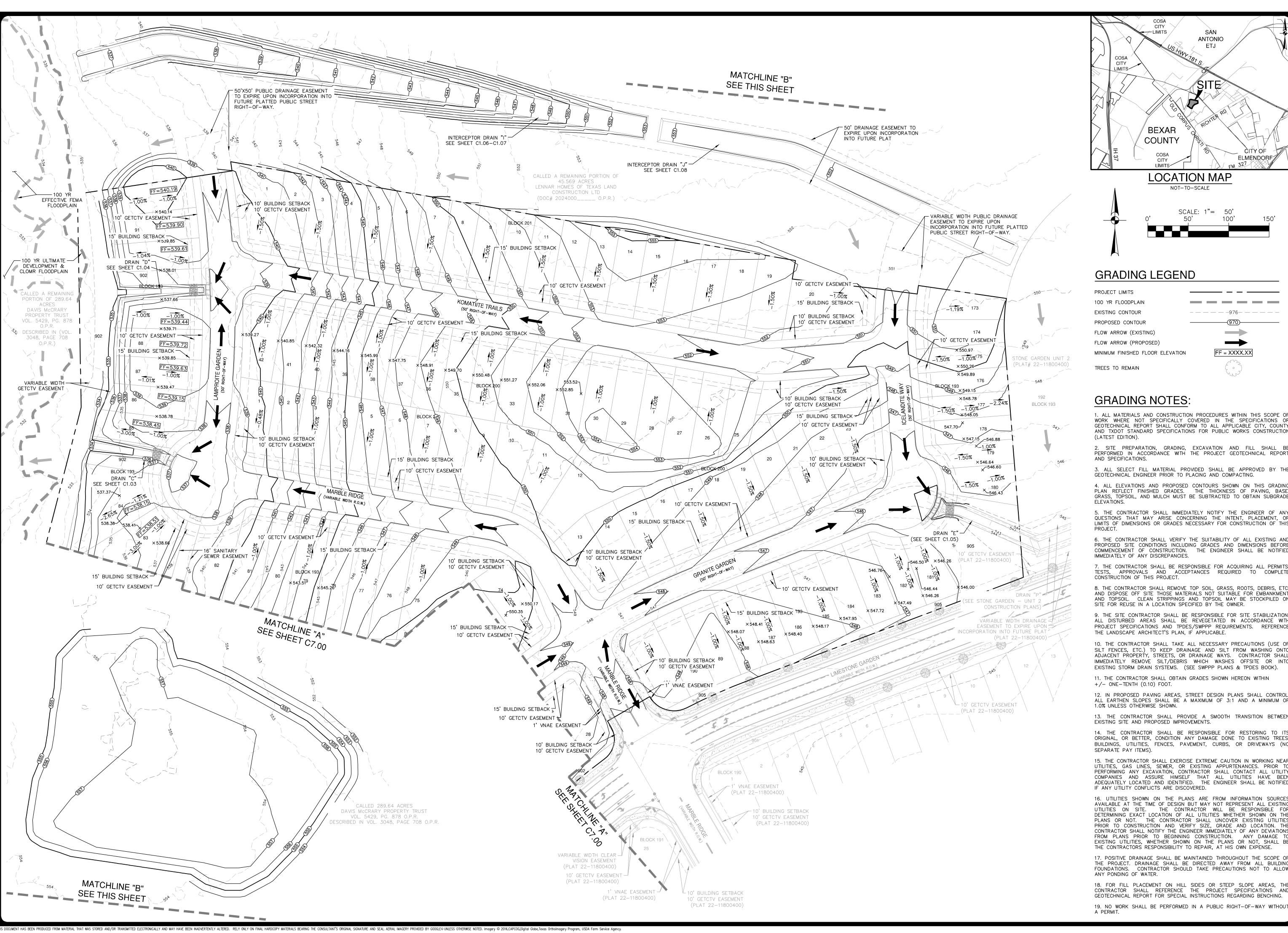
17. POSITIVE DRAINAGE SHALL BE MAINTAINED THROUGHOUT THE SCOPE OF THE PROJECT. DRAINAGE SHALL BE DIRECTED AWAY FROM ALL BUILDING FOUNDATIONS. CONTRACTOR SHOULD TAKE PRECAUTIONS NOT TO ALLOW ANY PONDING OF WATER.

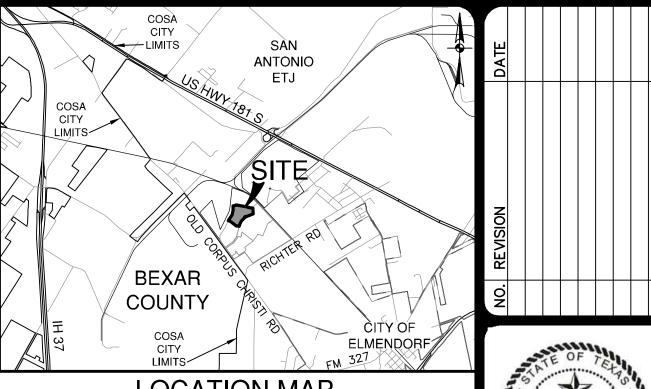
18. FOR FILL PLACEMENT ON HILL SIDES OR STEEP SLOPE AREAS, TI

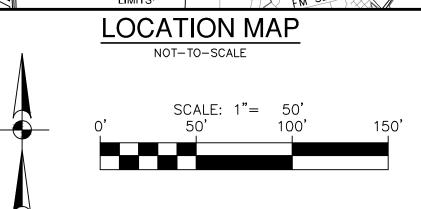
CONTRACTOR SHALL REFERENCE THE PROJECT SPECIFICATIONS AN GEOTECHNICAL REPORT FOR SPECIAL INSTRUCTIONS REGARDING BENCHING. 19. NO WORK SHALL BE PERFORMED IN A PUBLIC RIGHT-OF-WAY WITHOUT

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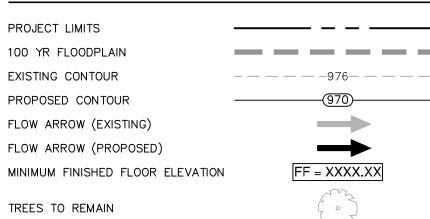
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GRADING LEGEND



GRADING NOTES

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

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

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

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

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

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

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

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

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

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

+/- ONE-TENTH (0.10) FOOT.

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

EXISTING SITE AND PROPOSED IMPROVEMENTS.

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

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GEOTECHNICAL REPORT FOR SPECIAL INSTRUCTIONS REGARDING BENCHING. 19. NO WORK SHALL BE PERFORMED IN A PUBLIC RIGHT-OF-WAY WITHOUT

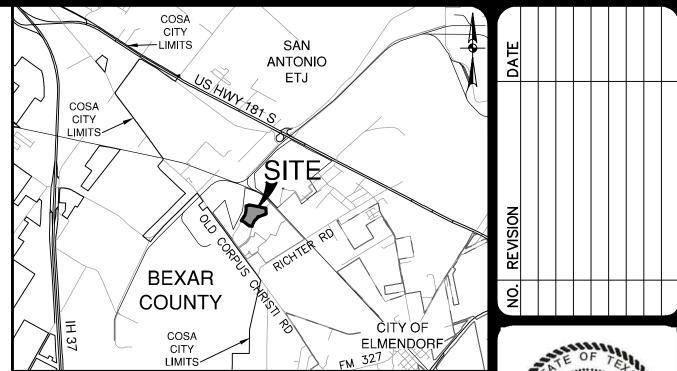
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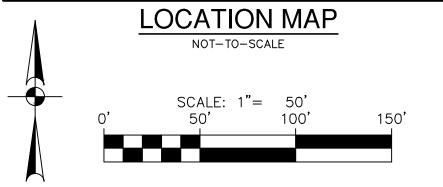
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EUGENE H. DAWSON III 112792



SWPPP LEGEND

PROJECT LIMITS EXISTING CONTOUR PROPOSED CONTOUR FLOW ARROW (EXISTING) FLOW ARROW (PROPOSED)

-//-//-//-//-SILT FENCE ROCK BERM (TO BE REMOVED POST CONSTRUCTION) GRAVEL FILTER BAGS

GRAVEL BAG BERM (CAN BE REMOVED ONCE CHANNEL IS STABILIZED OR RIP-RAP IS IN

STABILIZED CONSTRUCTION ENTRANCE/EXIT (FIELD LOCATE) CONSTRUCTION EQUIPMENT, VEHICLE &

LIMITS OF DISTURBED AREA

MATERIALS STORAGE AREA

(FIELD LOCATE)

 ∞

CONCRETE TRUCK WASH-OUT PIT (FIELD LOCATE) EARTHEN BERM W/POLYLINER AND SPILLWAY (BERMS ARE TO SPAN ACROSS PROPOSED STREET SECTION APPROX. 30-FEET WIDE FROM CURB TO CURB)

GENERAL NOTES

STREAM CENTERLINE

SILT FENCE (PHASE II)

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

AND CONSTRUCTION EQUIPMENT AND MATERIAL STORAGE YARD TO BE DETERMINED IN THE FIELD. 3. STORM WATER POLLUTION PREVENTION CONTROLS MAY NEED TO BE

MODIFIED IN THE FIELD TO ACCOMPLISH THE DESIRED EFFECT. AL MODIFICATIONS ARE TO BE NOTED ON THIS EXHIBIT AND SIGNED AND DATED BY THE RESPONSIBLE PARTY.

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

MAINTAINED AND IN WORKING CONDITIONS AT ALL TIMES. 6. FOR A COMPLETE LISTING OF TEMPORARY STORM WATER POLLUTION PREVENTION CONTROLS REFER TO THE TPDES STORM WATER POLLUTION PREVENTION PLAN.

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

8. AS SOON AS PRACTICAL, ALL DISTURBED SOIL THAT WILL NOT E COVERED BY IMPERVIOUS COVER SUCH AS PARKWAY AREAS, EASEMENT AREAS, EMBANKMENT SLOPES, ETC. WILL BE STABILIZED PER APPLICABLE PROJECT SPECIFICATIONS.

9. BEST MANAGEMENT PRACTICES MAY BE INSTALLED IN STAGES T COINCIDE WITH THE DISTURBANCE OF UPGRADIENT AREAS.

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

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

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

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

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

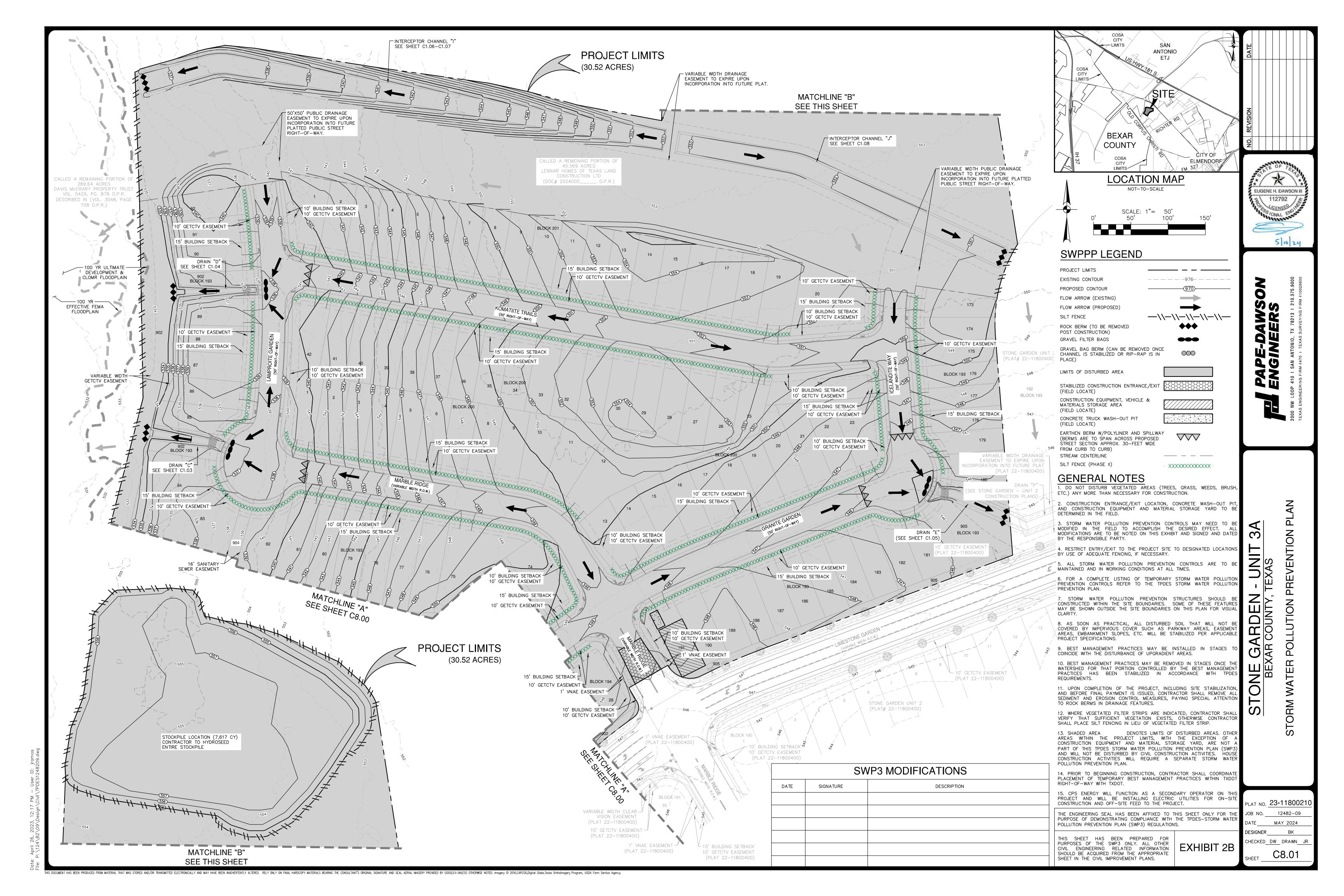
15. CPS ENERGY WILL FUNCTION AS A SECONDARY OPERATOR ON TH PROJECT AND WILL BE INSTALLING ELECTRIC UTILITIES FOR ON-SITE CONSTRUCTION AND OFF-SITE FEED TO THE PROJECT.

THE ENGINEERING SEAL HAS BEEN AFFIXED TO THIS SHEET ONLY FOR TH 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.

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SCHEMATIC OF TEMPORARY CONSTRUCTION ENTRANCE/EXIT

MATERIALS 1. THE AGGREGATE SHOULD CONSIST OF 4-INCH TO 8-INCH WASHED STONE OVER A STABLE FOUNDATION AS SPECIFIED IN THE PLAN.

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.

2. THE AGGREGATE SHOULD BE PLACED WITH A MINIMUM THICKNESS OF

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

8-INCHES.

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.

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.

3. THE CONSTRUCTION ENTRANCE SHOULD BE AT LEAST 50 FEET LONG.

5. PLACE GEOTEXTILE FABRIC AND GRADE FOUNDATION TO IMPROVE STABILITY, ESPECIALLY WHERE WET CONDITIONS ARE ANTICIPATED.

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

LAY SOD IN A STAGGERED PATTERN. BUTT

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

AUTOMATIC SOD CUTTER MUST BE MATCHED

ANGLED ENDS CAUSED BY THE

ENDS AND TRIMMING PIECES.

MATERIALS

OF 36 HOURS.

SHOOT GROWTH AND THATCH.

SITE PREPARATION

6. PLACE STONE TO DIMENSIONS AND GRADE SHOWN ON PLANS. LEAVE

STABILIZE FOUNDATION SECTION "A-A" OF A

CONSTRUCTION ENTRANCE/EXIT

GEOTEXTILE FABRIC TO

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.

. 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.

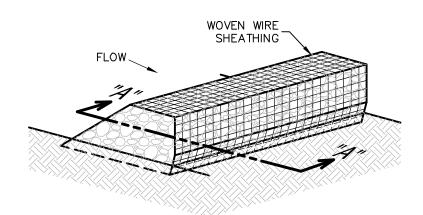
INSPECTION AND MAINTENANCE GUIDELINES THE ENTRANCE SHOULD BE MAINTAINED IN A CONDITION. WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS

CONDITIONS DEMAND AND REPAIR AND/OR CLEANOUT OF ANY MEASURES LISED 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

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



ISOMETRIC PLAN VIEW

ROCK BERMS

SILT FENCE

AREAS OF CONCENTRATED FLOW.

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

INSTALLATION

SHOULD BE 6 FEET.

AT ANY TIME.

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

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

INSTALLATIONS IN STREAMBEDS, ADDITIONAL DAILY INSPECTIONS SHOULD BE

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

3. REPAIR ANY LOOSE WIRE SHEATHING. 4. THE BERM SHOULD BE RESHAPED AS NEEDED DURING INSPECTION

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

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

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

THE PURPOSE OF A SILT FENCE IS TO INTERCEPT AND DETAIN WATER-BORN

SEDIMENT FROM UNPROTECTED AREAS OF A LIMITED EXTENT. SILT FENCE IS

USED DURING THE PERIOD OF CONSTRUCTION NEAR THE PERIMETER OF A

DISTURBED AREA TO INTERCEPT SEDIMENT WHILE ALLOWING WATER TO

PERCOLATE THROUGH. THIS FENCE SHOULD REMAIN IN PLACE UNTIL THE

DISTURBED AREA IS PERMANENTLY STABILIZED. SILT FENCE SHOULD NOT BE

USED WHERE THERE IS A CONCENTRATION OF WATER IN A CHANNEL OR DRAINAGE WAY. IF CONCENTRATED FLOW OCCURS AFTER INSTALLATION.

CORRECTIVE ACTION MUST BE TAKEN SUCH AS PLACING A ROCK BERM IN THE

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

I. 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%,

. 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

1. STEEL POSTS, WHICH SUPPORT THE SILT FENCE, SHOULD BE INSTALLED ON

A SLIGHT ANGLE TOWARD THE ANTICIPATED RUNOFF SOURCE. POSTS MUST

BE EMBEDDED A MINIMUM OF 1-FOOT DEEP AND SPACED NOT MORE THAN 8

FEET ON CENTER. WHERE WATER CONCENTRATES, THE MAXIMUM SPACING

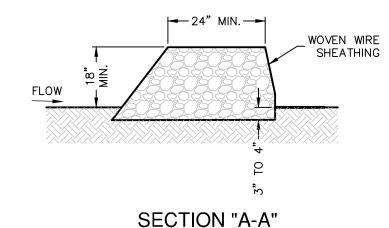
2. LAY OUT FENCING DOWN-SLOPE OF DISTURBED AREA, FOLLOWING THE

CONTOUR AS CLOSELY AS POSSIBLE. THE FENCE SHOULD BE SITED SO THAT

THE MAXIMUM DRAINAGE AREA IS 1/4 ACRE/100 FEET OF FENCE.

AND MINIMUM APPARENT OPENING SIZE OF U.S. SIEVE NUMBER 30.

INSTALLED, SILT FENCES ARE NOT LIKELY TO BE EFFECTIVE.



MATERIALS THE BERM STRUCTURE SHOULD BE SECURED WITH A WOVEN WIRE

SHEATHING HAVING MAXIMUM OPENING OF 1 INCH AND A MINIMUM WIRE DIAMETER OF 20 GAUGE GALVANIZED AND SHOULD BE SECURED WITH SHOAT 2. CLEAN, OPEN GRADED 3-INCH TO 5-INCH DIAMETER ROCK SHOULD BE

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

INSTALLATION

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

2. BERM SHOULD HAVE A TOP WIDTH OF 2 FEET MINIMUM WITH SIDE SLOPES BEING 2:1 (H:V) OR FLATTER. 3. PLACE THE ROCK ALONG THE SHEATHING AS SHOWN IN THE DIAGRAM TO A HEIGHT NOT LESS THAN 18".

4. WRAP THE WIRE SHEATHING AROUND THE ROCK AND SECURE WITH TIE WIRE SO THAT THE ENDS OF THE SHEATHING OVERLAP AT LEAST 2 INCHES. AND THE BERM RETAINS ITS SHAPE WHEN WALKED UPON. 5. BERM SHOULD BE BUILT ALONG THE CONTOUR AT ZERO PERCENT GRADE

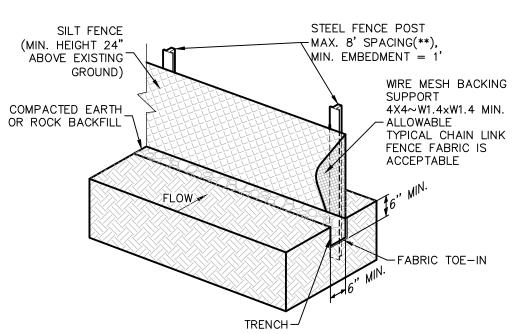
6. THE ENDS OF THE BERM SHOULD BE TIED INTO EXISTING UPSLOPE GRADE AND THE BERM SHOULD BE BURIED IN A TRENCH APPROXIMATELY 3 TO 4 INCHES DEEP TO PREVENT FAILURE OF THE CONTROL.

COMMON TROUBLE POINTS

OR AS NEAR AS POSSIBLE.

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

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



**STEEL POSTS, WHICH SUPPORT THE SILT FENCE, SHOULD BE INSTALLED ON A SLIGHT ANGLE TOWARD THE ANTICIPATED RUNOFF SOURCE. POST MUST BE FMBEDDED A MINIMUM OF 1-FOOT DEEP AND SPACED NOT MORE THAN 8 FEET ON CENTER. WHERE WATER CONCENTRATES, THE MAXIMUM SPACING SHOULD BE 6 4X4~W1.4xW1.4 MIN. FEET. (RG-348, SECTION 1.4.3)

ROCK BERM DETAIL

NOT-TO-SCALE

GRASS SHOULD BE GREEN AND - THATCH- GRASS CLIPPINGS AND DEAD LEAVES, UP TO 1/2" THICK. -ROOT ZONE - SOIL AND ROOTS. SHOULD BE 1/2"-3/4" THICK, WITH DENSE ROOT MAT FOR STRENGTH. INCORRECT

 ROLL SOD IMMEDIATELY TO ACHIEVE FIRM CONTACT WITH THE SOIL.

APPEARANCE OF GOOD SOD

STABILIZED CONSTRUCTION ENTRANCE/EXIT DETAIL

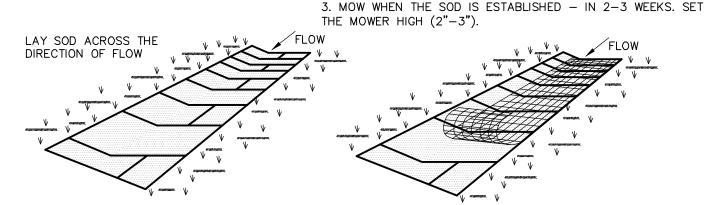
NOT-TO-SCALE

SEDIMENT BASIN

SHOOTS OR GRASS BLADES.

HEALTHY; MOWED AT A 2"-3"

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



2. PIECES OF SOD SHOULD BE CUT TO THE SUPPLIER'S STANDARD WIDTH AND

STANDARD SIZE SECTIONS OF SOD SHOULD BE STRONG ENOUGH TO

SUPPORT THEIR OWN WEIGHT AND RETAIN THEIR SIZE AND SHAPE WHEN

4. SOD SHOULD BE HARVESTED, DELIVERED, AND INSTALLED WITHIN A PERIOD

PRIOR TO SOIL PREPARATION, AREAS TO BE SODDED SHOULD BE BROUGHT

THE SURFACE SHOULD BE CLEARED OF ALL TRASH, DEBRIS AND OF ALL

FERTILIZE ACCORDING TO SOIL TESTS. FERTILIZER NEEDS CAN BE

CAN BE MADE BY COUNTY AGRICULTURAL EXTENSION AGENTS. FERTILIZER

SHOULD BE WORKED INTO THE SOIL TO A DEPTH OF 3 INCHES WITH A DISC,

SOD STRIPS IN WATERWAYS SHOULD BE LAID PERPENDICULAR TO THE

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

2. 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

FINAL HARROWING OR DISCING OPERATION SHOULD BE ON THE CONTOUR.

ROOTS, BRUSH, WIRE, GRADE STAKES AND OTHER OBJECTS THAT WOULD

TORN OR UNEVEN PADS SHOULD NOT BE ACCEPTABLE.

SUSPENDED FROM A FIRM GRASP ON ONE END OF THE SECTION.

TO FINAL GRADE IN ACCORDANCE WITH THE APPROVED PLAN.

INSTALLATION IN CHANNELS

TIGHTLY (SEE FIGURE ABOVE).

INTERFERE WITH PLANTING, FERTILIZING OR MAINTENANCE OPERATIONS.

IN CRITICAL AREAS, SECURE SOD WITH NETTING, USE STAPLES,

WITH THE GROUND.

1. SOD SHOULD BE MACHINE CUT AT A UNIFORM SOIL THICKNESS OF 3/4" INCH CONSERVATION, 1992 (± 1/4" INCH) AT THE TIME OF CUTTING. THIS THICKNESS SHOULD EXCLUDE

> REDUCE ROOT BURNING AND DIEBACK. FIRST ROW OF SOD SHOULD BE LAID IN A STRAIGHT LINE WITH 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

> 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

> 5. AS SODDING OF CLEARLY DEFINED AREAS IS COMPLETED, SOD SHOULD BE ROLLED OR TAMPED TO PROVIDE FIRM CONTACT BETWEEN ROOTS AND SOIL. 6. AFTER ROLLING, SOD SHOULD BE IRRIGATED TO A DEPTH SUFFICIENT THAT

DETERMINED BY A SOIL TESTING LABORATORY OR REGIONAL RECOMMENDATIONS UNTIL SUCH TIME A GOOD ROOT SYSTEM BECOMES DEVELOPED, IN THE SPRINGTOOTH HARROW OR OTHER SUITABLE EQUIPMENT. ON SLOPING LAND, THE ABSENCE OF ADEQUATE RAINFALL, WATERING SHOULD BE PERFORMED AS OFTEN AS NECESSARY TO MAINTAIN MOIST SOIL TO A DEPTH OF AT LEAST 4

> 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 LEAF SHOULD BE REMOVED AT ANY ONE CUTTING.

INSPECTION AND MAINTENANCE GUIDELINES SOD SHOULD BE INSPECTED WEEKLY AND AFTER EACH RAIN EVENT TO

STAPLE USE PEGS OR STAPLES TO FASTEN SOD FIRMLY - AT THE ENDS OF STRIPS AND IN THE CENTER, OR EVERY 3-4 FEET IF THE STRIPS ARE LONG. WHEN READY TO MOW, DRIVE PEGS OR STAPLES FLUSH

SOD INSTALLATION

GENERAL INSTALLATION (VA. DEPT. OF

SOD SHOULD NOT BE CUT OR LAID IN EXCESSIVELY WET OR DRY WEATHER. SOD ALSO SHOULD NOT BE LAID ON SOIL SURFACES THAT ARE FROZEN. 2. DURING PERIODS OF HIGH TEMPERATURE, THE SOIL SHOULD BE LIGHTLY LENGTH, WITH A MAXIMUM ALLOWABLE DEVIATION IN ANY DIMENSION OF 5%. IRRIGATED IMMEDIATELY PRIOR TO LAYING THE SOD, TO COOL THE SOIL AND

> IN ORDER TO PREVENT VOIDS WHICH WOULD CAUSE DRYING OF THE ROOTS (SEE FIGURE ABOVE).

PERPENDICULAR TO THE SLOPE (ON CONTOUR).

THE UNDERSIDE OF THE SOD PAD AND THE SOIL 4 INCHES BELOW THE SOD IS

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

SILT FENCE DETAIL

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

4. THE TRENCH MUST BE A MINIMUM OF 6 INCHES DEEP AND 6 INCHES WIDE TO ALLOW FOR THE SILT FENCE FABRIC TO BE LAID IN THE GROUND AND BACKFILLED WITH COMPACTED MATERIAL. SILT FENCE SHOULD BE SECURELY FASTENED TO EACH STEEL SUPPORT POST OR TO WOVEN WIRE, WHICH IS IN TURN ATTACHED TO THE STEEL FENCE

POST. THERE SHOULD BE A 3-FOOT OVERLAP, SECURELY FASTENED WHERE ENDS OF FABRIC MEET 6. SILT FENCE SHOULD BE REMOVED WHEN THE SITE IS COMPLETELY STABILIZED SO AS NOT TO BLOCK OR IMPEDE STORM FLOW OR DRAINAGE.

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

2. FABRIC NOT SEATED SECURELY TO GROUND (RUNOFF PASSING UNDER FENCE). 3. FENCE NOT INSTALLED PERPENDICULAR TO FLOW LINE (RUNOFF ESCAPING

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

INSPECTION AND MAINTENANCE GUIDELINES 1. INSPECT ALL FENCING WEEKLY.

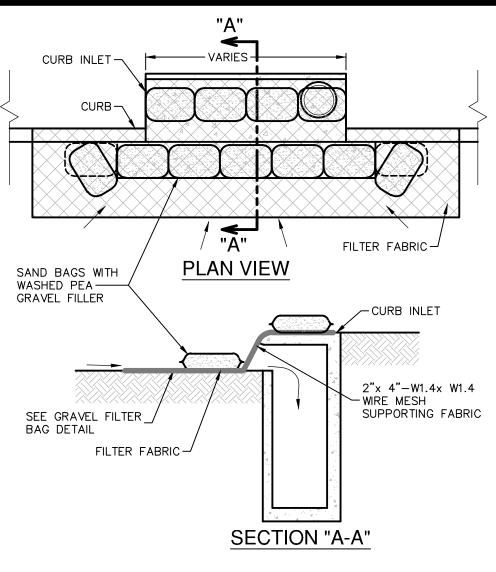
REMOVE SEDIMENT WHEN BUILDUP APPROACHES 6 INCHES, BUT NOT TO EXCEED 50% OF HEIGHT. 3. REPLACE TORN FABRIC OR INSTALL A SECOND LINE OF FENCING PARALLEL

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

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

TO THE TORN SECTION.

SEEPING UNDER FENCE.



GENERAL NOTES

CONTRACTOR TO INSTALL 2"x4"-W1.4xW1.4 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 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.

INSPECTION AND MAINTENANCE GUIDELINES . INSPECTION SHOULD BE MADE WEEKLY. REPAIR OR REPLACEMENT SHOULD BE MADE PROMPTLY AS NEEDED BY THE CONTRACTOR.

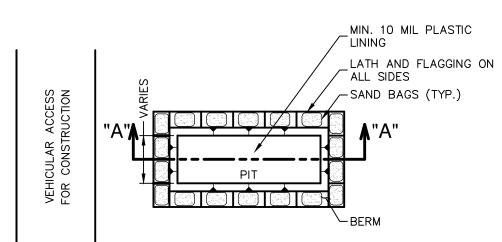
REMOVE SEDIMENT WHEN BUILDUP REACHES A DEPTH OF 3 INCHES. REMOVED SEDIMENT SHOULD BE DEPOSITED IN A SUITABLE AREA AND IN SUCH A MANNER THAT IT WILL NOT ERODE.

3. CHECK PLACEMENT OF DEVICE TO PREVENT GAPS BETWEEN DEVICE AND

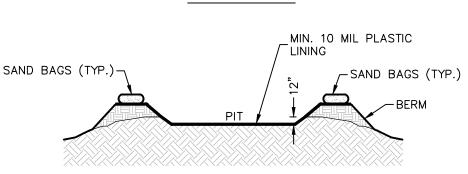
4. INSPECT FILTER FABRIC AND PATCH OR REPLACE IF TORN OR MISSING STRUCTURES SHOULD BE REMOVED AND THE AREA STABILIZED ONLY AFTER THE REMAINING DRAINAGE AREA HAS BEEN PROPERLY STABILIZED.

BAGGED GRAVEL CURB INLET PROTECTION DETAIL

NOT-TO-SCALE



PLAN VIEW



SECTION "A-A'

GENERAL NOTES . DETAIL ABOVE ILLUSTRATES MINIMUM DIMENSIONS. PIT CAN BE INCREASED IN

SIZE DEPENDING ON EXPECTED FREQUENCY OF USE. 2. WASHOUT PIT SHALL BE LOCATED IN AN AREA EASILY ACCESSIBLE TO CONSTRUCTION TRAFFIC.

WASHOUT PIT SHALL NOT BE LOCATED IN AREAS SUBJECT TO INUNDATION FROM STORM WATER RUNOFF. 4. LOCATE WASHOUT AREA AT LEAST 50 FEET FROM SENSITIVE FEATURES, 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.

MATERIALS

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.

MAINTENANCE

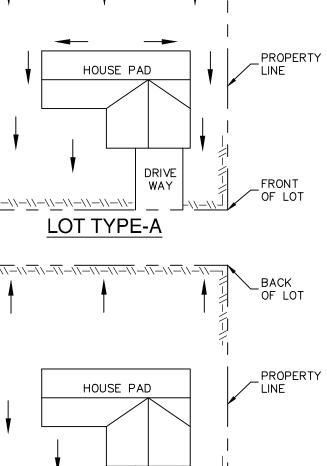
WHEN TEMPORARY CONCRETE WASHOUT FACILITIES ARE NO LONGER REQUIRED FOR THE WORK, THE HARDENED CONCRETE SHOULD BE REMOVED AND DISPOSED OF. MATERIALS USED TO CONSTRUCT TEMPORARY CONCRETE WASHOUT

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

FACILITIES SHOULD BE REMOVED FROM THE SITE OF THE WORK AND DISPOSED

CONCRETE TRUCK WASHOUT

PIT DETAIL NOT-TO-SCALE

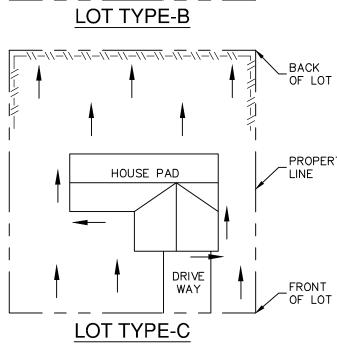


BACK

OF LOT

EUGENE H. DAWSON I

WAY

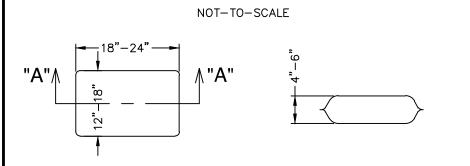


LEGENI

SECTION "A-A"

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

SHOWN ON THE OVERALL SITE PLAN. TYPICAL HOUSE LOT LAYOUTS



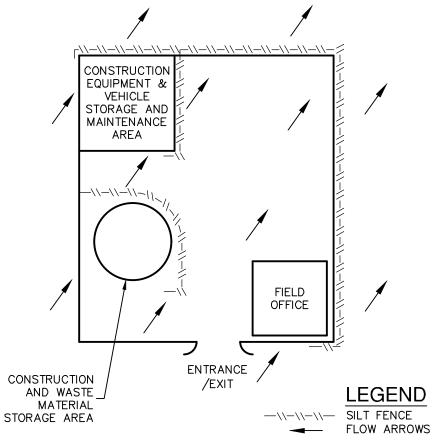
THE FILTER BAG MATERIAL SHALL BE MADE OF POLYPROPYLENE. POLYETHYLENE OR POLYAMIDE WOVEN FABRIC, MIN. UNIT WEIGHT OF 4 OUNCES/SY, HAVE A MULLEN BURST STRENGTH EXCEEDING 300 PSI AND ULTRAVIOLET STABILITY EXCEEDING 70%. THE FILTER BAG SHALL BE FILLED WITH CLEAN, MEDIUM WASHED PEA

PLAN VIEW

GRAVEL TO COARSE GRAVEL (0.31 TO 0.75 INCH DIAMETER). 3. SAND SHALL <u>NOT</u> BE USED TO FILL THE FILTER BAGS.

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.

SHEET IN THE CIVIL IMPROVEMENT PLANS.

THIS SHEET HAS BEEN PREPARED FOR PURPOSES OF THE SWP3 ONLY. ALL OTHER CIVIL ENGINEERING RELATED INFORMATION SHOULD BE ACQUIRED FROM THE APPROPRIATE

HECKED DW DRAWN

SIGNER

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MAY 2024

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NOT-TO-SCALE

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