

Date: Sep 06, 2024, 4:00pm User ID: rdh0002
File Path: \\1245616 Design\Chal\CV-1245616.dwg

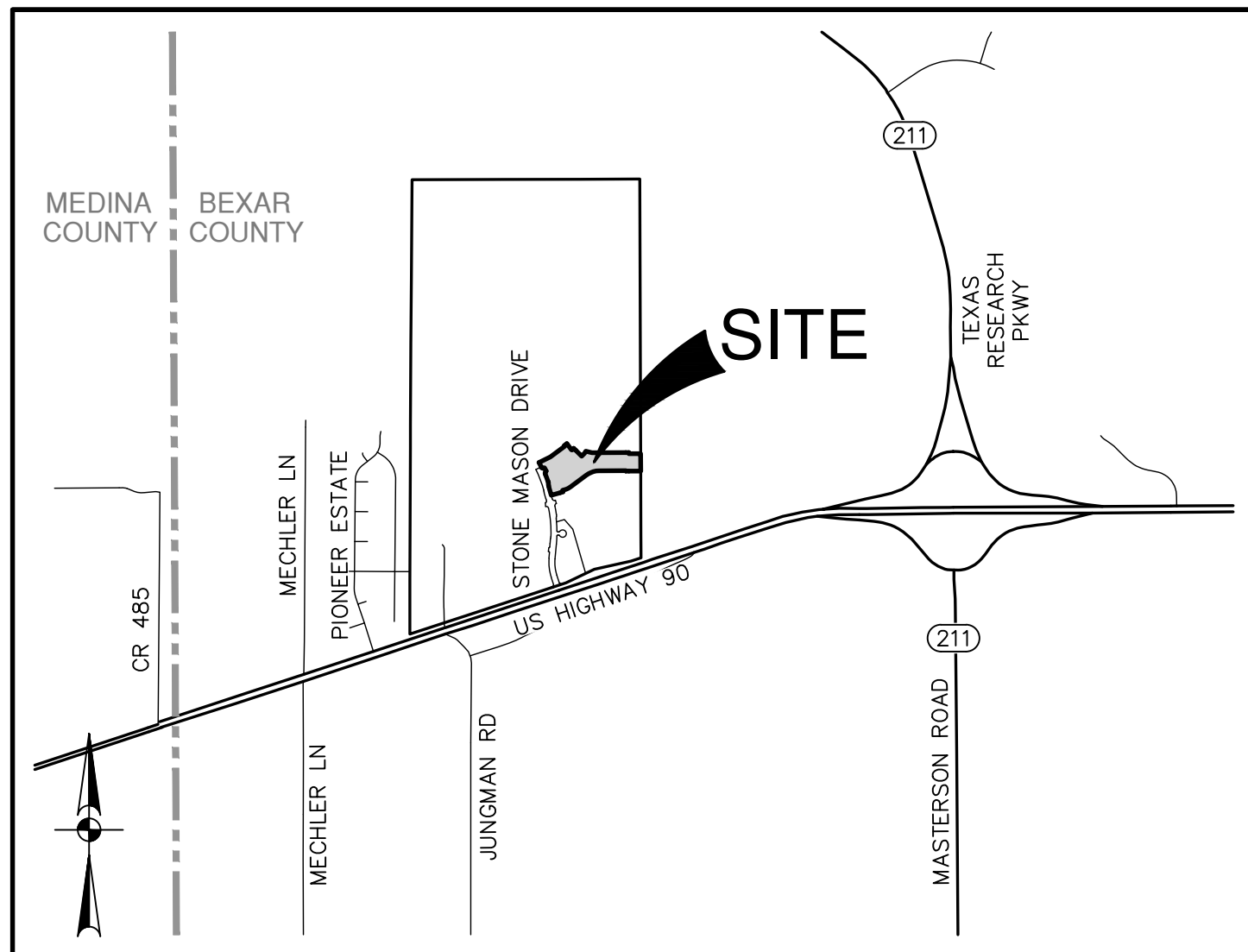
STONEHILL, UNIT-4A

SAN ANTONIO, TEXAS

CIVIL CONSTRUCTION PLANS

SHEET INDEX

Sheet Description	Sheet No.
COVER SHEET	C0.00
OVERALL MASTER DRAINAGE PLAN (ULTIMATE DEVELOPMENT)	C1.00
OVERALL MASTER DRAINAGE PLAN (ULTIMATE DEVELOPMENT)	C1.01
OVERALL MASTER DRAINAGE PLAN (PROPOSED CONDITIONS)	C1.02
DRAIN "B1" ~ STA. 1+07.20 TO END; DRAIN PLAN & PROFILE	C1.03
DRAIN "B2" ~ STA. 1+02.00 TO END; DRAIN PLAN & PROFILE	C1.04
DRAIN "C1" ~ STA. 1+03.55 TO END; DRAIN PLAN & PROFILE	C1.10
DRAIN DETAILS	C1.11
DRAIN DETAILS	C1.12
DRAIN DETAILS	C1.13
GRAYSON MILLS ~ STA. 1+92.36 TO END; STREET PLAN & PROFILE	C2.00
LAMB RIVER ~ STA. 11+98.81 TO END; STREET PLAN & PROFILE	C2.01
WICHITA ROCK ~ STA. 1+34.07 TO END; STREET PLAN & PROFILE	C2.02
KNOX HOOD PASS ~ STA. 1+40.00 TO END; STREET PLAN & PROFILE	C2.03
HANSFORD POINT ~ STA. 35+50.15 TO END; STREET PLAN & PROFILE	C2.04
STREET DETAILS	C2.10
STREET DETAILS	C2.11
STREET DETAILS	C2.12
OVERALL SIGNAGE PLAN	C3.00
SIGNAGE PLAN DETAILS	C3.10
SIGNAGE PLAN DETAILS	C3.11



LOCATION MAP

NOT-TO-SCALE

PREPARED FOR:

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

MAY 2024

PAPE-DAWSON
ENGINEERS

2000 NW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000
TEXAS ENGINEERING FIRM #470 | TEXAS SURVEYING FIRM #10028600



WATER (SAWS PRESSURE ZONE 930)

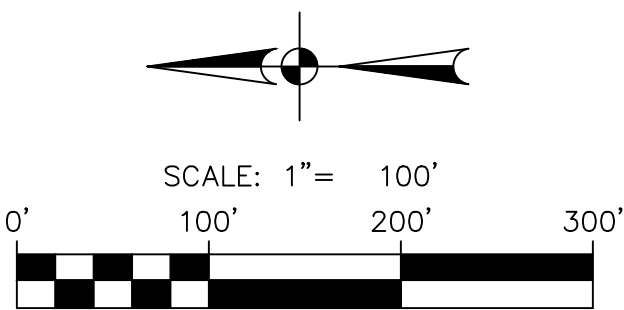
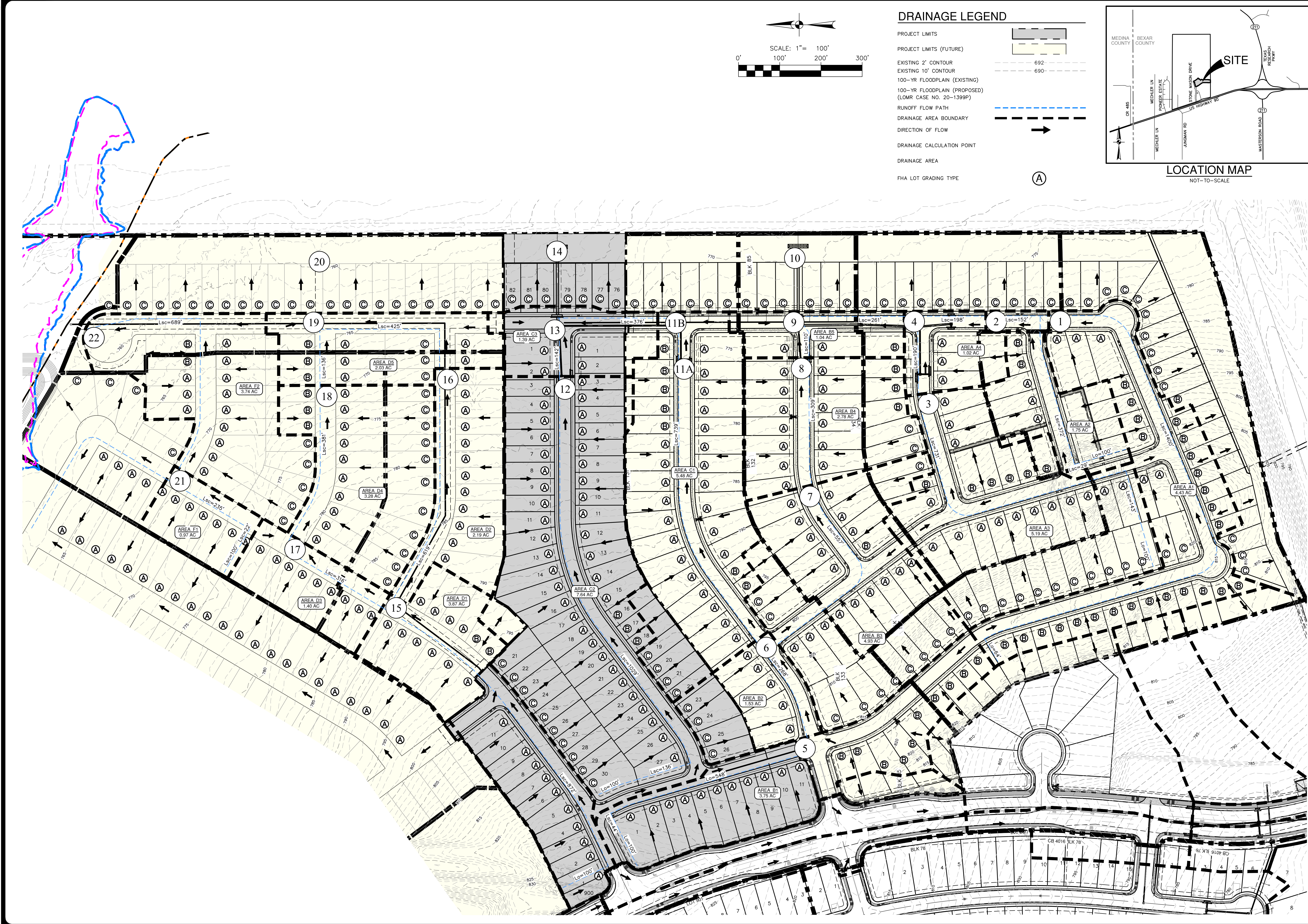
DEVELOPER'S NAME: CONTINENTAL HOMES OF TEXAS, L.P.
ADDRESS: 5419 N LOOP 1604 E
CITY: SAN ANTONIO STATE: TEXAS ZIP: 78247
PHONE# (210) 496-2668 FAX# (210) 496-2668
SAWS BLOCK MAP# 068562 TOTAL EDU'S 92 TOTAL ACREAGE 11.135
TOTAL LINEAR FOOTAGE OF PIPE: 8" ~ 2,791 PLAT NO. 24-11800201
NUMBER OF LOTS 92 SAWS JOB NO. 24-1084

SEWER: (DOS RIOS WRC)

DEVELOPER'S NAME: CONTINENTAL HOMES OF TEXAS, L.P.
ADDRESS: 5419 N LOOP 1604 E
CITY: SAN ANTONIO STATE: TEXAS ZIP: 78247
PHONE# (210) 496-2668 FAX# (210) 496-2668
SAWS BLOCK MAP# 068562 TOTAL EDU'S 92 TOTAL ACREAGE 11.135
TOTAL LINEAR FOOTAGE OF PIPE: 8" ~ 4,441 PLAT NO. 24-11800201
NUMBER OF LOTS 92 SAWS JOB NO. 24-1565

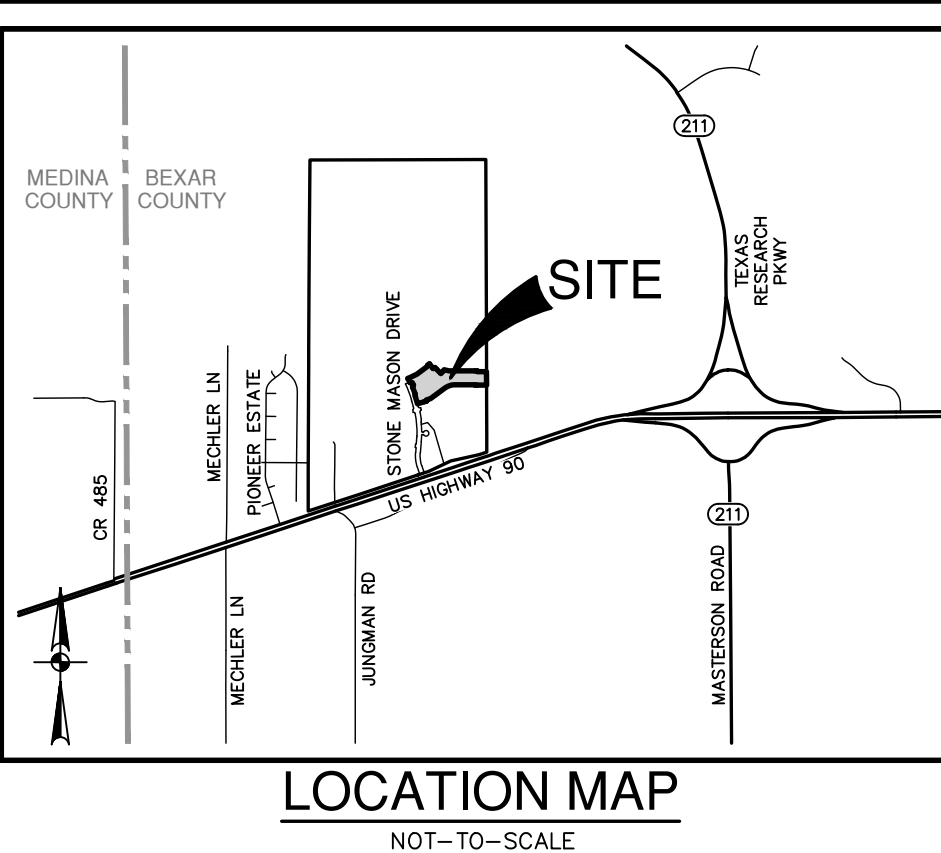
SHEET C0.00

Date: December 19, 2024, 11:00 AM - User ID: rchance
File: P:\1245616 Design\Civil\SDMA-1245616(UD).dwg



DRAINAGE LEGEND

- PROJECT LIMITS
PROJECT LIMITS (FUTURE)
EXISTING 2' CONTOUR
EXISTING 10' CONTOUR
100-YR FLOODPLAIN (EXISTING)
100-YR FLOODPLAIN (PROPOSED)
(LOMR CASE NO. 20-1399P)
RUNOFF FLOW PATH
DRAINAGE AREA BOUNDARY
DIRECTION OF FLOW
DRAINAGE CALCULATION POINT
DRAINAGE AREA
FHA LOT GRADING TYPE



NO. REVISION

DATE

STATE OF TEXAS
CALEB M. CHANCE
LICENSED PROFESSIONAL ENGINEER
98401
12/20/24

PAPE-DAWSON
ENGINEERS

2000 NW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000
TEXAS ENGINEERING FIRM #470 | TEXAS SURVEYING FIRM #10028600

STONEHILL, UNIT-4A
SAN ANTONIO, TEXAS

OVERALL MASTER DRAINAGE PLAN
(ULTIMATE DEVELOPMENT)

PLAT NO. 24-11800201
JOB NO. 12456-16
DATE MAY 2024
DESIGNER CB
CHECKED BL DRAWN CB
SHEET C1.00

Date: April 5, 2024, 5:50 PM - User ID: Gbertyshy
 File: P:\12456\16\Design\Civil\SD04-12456(UD).dwg

THIS 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,CAPCOO\Digital Globa,Texas Orthomography Program, USDA Farm Service Agency.

ULTIMATE CONDITION DRAINAGE SUMMARY TABLE

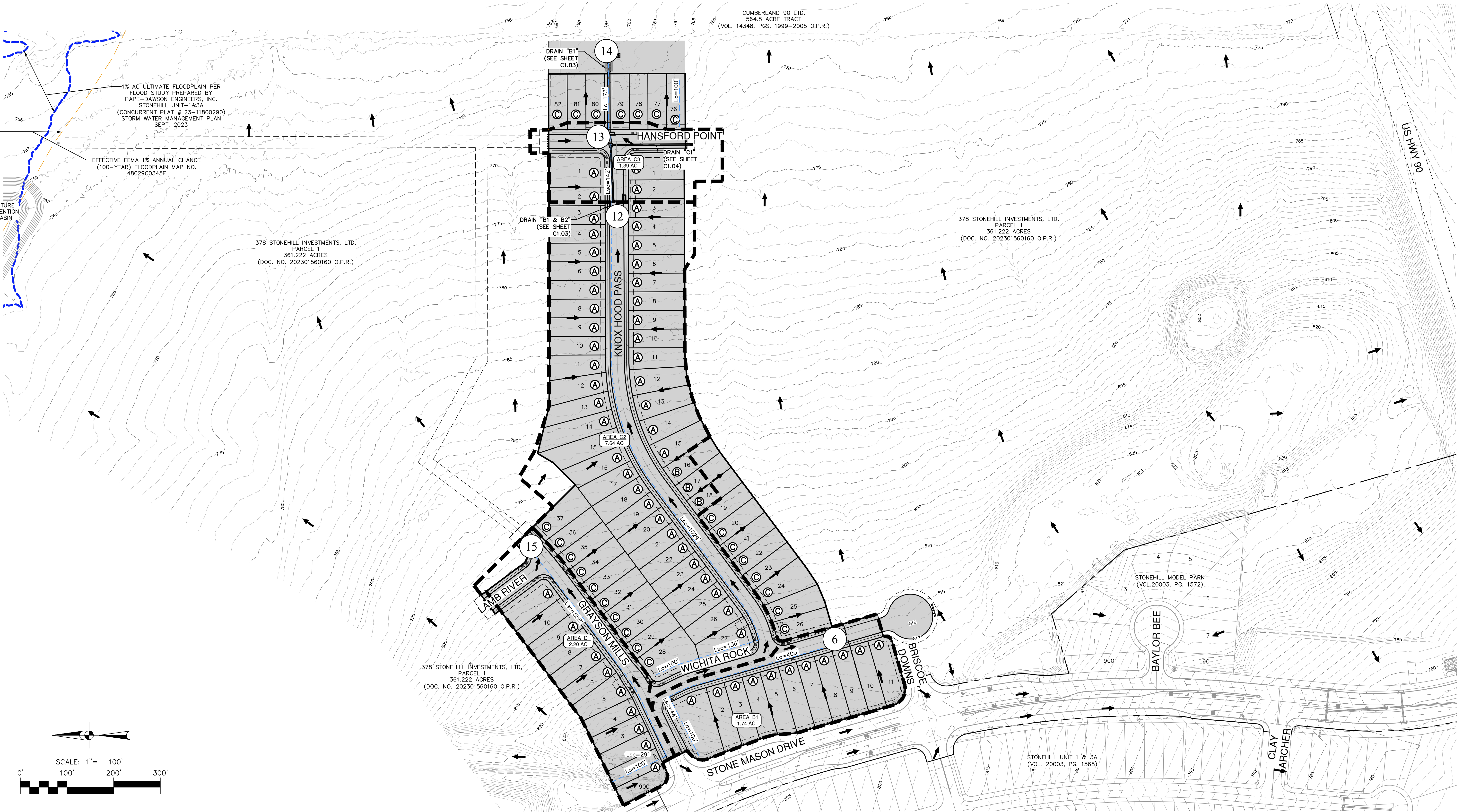
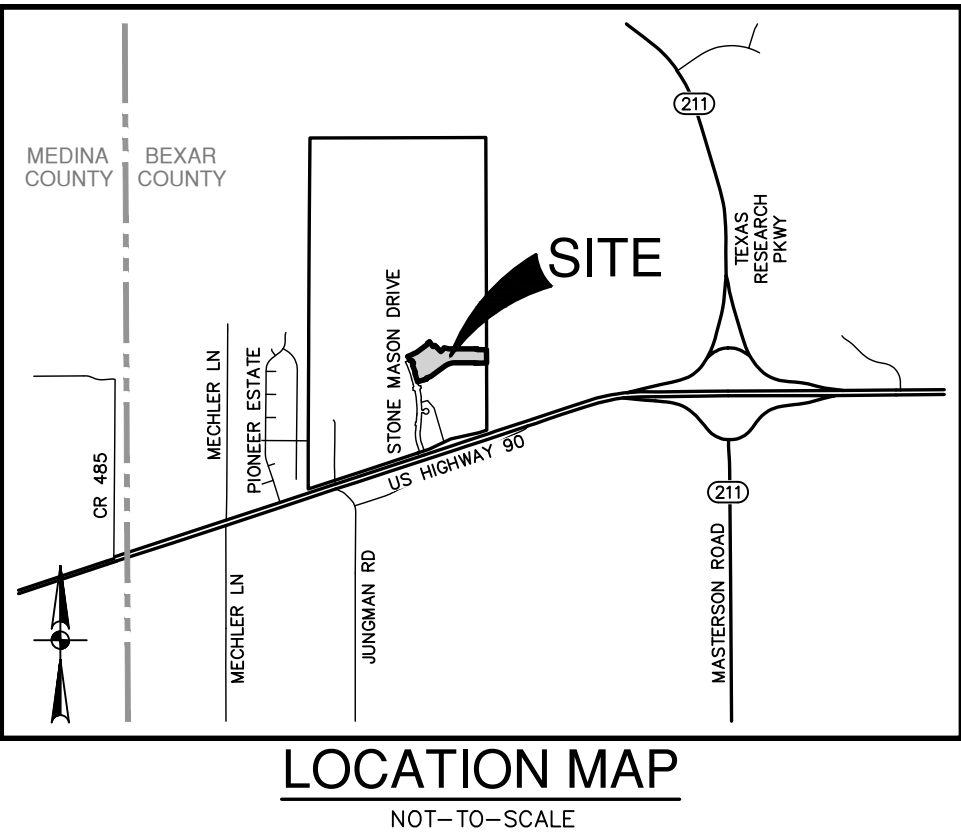
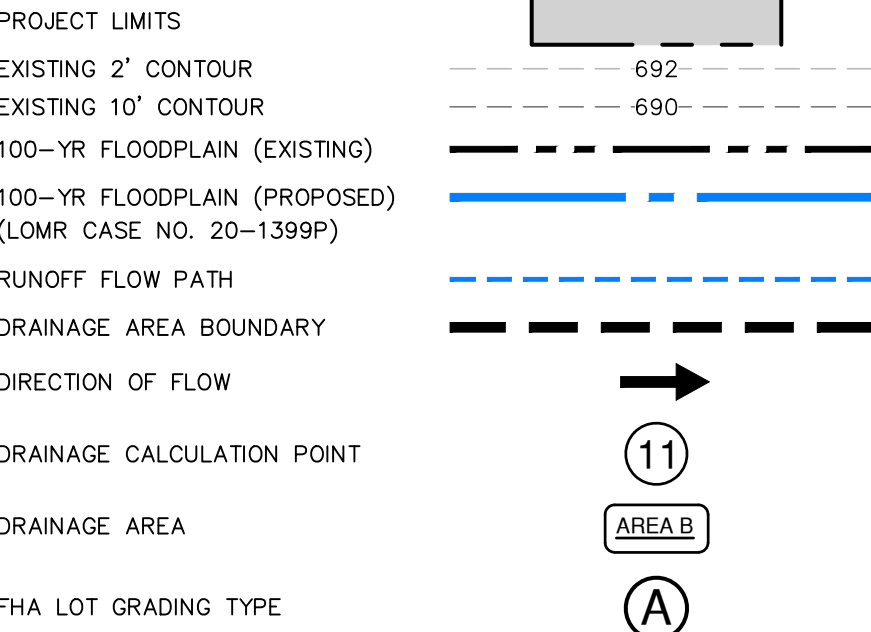
					Overland Flow			STONEHILL UNIT 4A - ULTIMATE CONDITION - DRAINAGE SUMMARY TABLE										Channel Flow			Total							Curb Inlet	
Point	Structure	Area	Total Flow Length (ft)	Total Area (ac)	Character of Ground	Slope %	L (ft)	Tc (min)	Surface	Slope %	L (ft)	Tc (min)	Surface	Slope %	L (ft)	Tc (min)	L (ft)	Tc (min)	Tc (min)	C	I	Q (cfs)	Frequency (yrs)	Total Q ₂₅ (Q-Intercept/Bypass)	Intercept	Bypass			
1	FUTURE STREET CAPACITY	A1	1464	4.43	Avg. Grass	2.0	64	6	Short Grass Pasture	0.0	0	0.0	Paved	2.50	1400	7.29	0	0.0	13	0.72	5.61	17.9	5						
																					7.82	24.9	25						
																					9.76	31.1	100						
2	FUTURE CURB INLETS ON-GRADE	A1+A2	1616	6.18	Avg. Grass	2.0	64	6	Short Grass Pasture	0.0	0	0.0	Paved	2.40	1552	8.34	0	0.0	14	0.72	5.42	24.1	5			12.66	11.44		
																					7.53	33.5	25		13.80	19.71			
																					9.39	41.8	100		14.72	27.08			
3	FUTURE CURB INLETS ON-GRADE	A3	974	5.19	Avg. Grass	2.00	100	8.86	Short Grass Pasture	2.00	143	2.38	Paved	3.00	731	3.48	0	0.00	14	0.72	5.42	20.3	5			11.02	9.28		
																					7.53	28.1	25		11.85	16.25			
																					9.39	35.1	100		12.45	22.65			
4	FUTURE CURB INLETS ON-GRADE	A1+A2+A3+A4	1814	12.39	Avg. Grass	2.00	64	6.2	Short Grass Pasture	0.00	0	0.00	Paved	2.40	1750	9.41	0	0.00	15	0.72	5.24	46.7	5		Q = 46.7 - 12.66 - 11.02 = 23.02	15.50	8.52		
																					7.24	64.6	25		Q = 64.6 - 13.8 - 11.85 = 38.95	17.30	21.65		
																					9.03	80.6	100		Q = 80.6 - 14.72 - 12.45 = 53.43	19.36	34.08		
5	FUTURE STREET CAPACITY	B1	692	3.75	Avg. Grass	2.00	100	8.86	Short Grass Pasture	2.00	44	0.73	Paved	2.50	548	2.85	0	0.00	12	0.72	5.81	15.7	5						
																					8.12	21.9	25						
																					10.14	27.4	100						
6	FUTURE STREET CAPACITY / STREET INTERCEPT	B1+B2	960	5.28	Avg. Grass	2.00	100	8.86	Short Grass Pasture	2.00	44	0.73	Paved	3.30	816	3.68	0	0.00	13	0.72	5.61	21.3	5			4.69	16.61		
																					7.82	29.7	25			5.33	24.37		
																					9.76	37.1	100			5.86	31.24		
7	FUTURE CURB INLETS ON-GRADE	B1+B2+B3	1517	10.21	Avg. Grass	2.00	100	8.86	Short Grass Pasture	2.00	44	0.73	Paved	3.00	1373	6.54	0	0.00	16	0.72	5.06	37.2	5		Q = 37.2 - 16.61 = 20.59	11.30	9.29		
																					6.99	51.4	25		Q = 51.4 - 24.37 = 27.03	11.98	15.05		
																					8.71	64.0	100		Q = 64 - 31.24 = 32.76	12.52	20.24		
8	FUTURE CURB INLETS ON-GRADE	B1+B2+B3+B4	1826	12.99	Avg. Grass	2.00	100	8.86	Short Grass Pasture	2.00	44	0.73	Paved	3.10	1682	7.79	0	0.00	17	0.72	4.91	45.9	5		Q = 45.9 - 16.61 - 11.30 = 17.99	13.94	4.05		
																					6.76	4.0	25		Q = 63.2 - 24.37 - 11.98 = 26.85	15.78	11.05		
																					8.42	78.8	100		Q = 78.8 - 31.24 - 12.52 = 35.04	17.64	17.40		
9	H	A1+A2+A3+A4+B1+B2+B3+B4+B5	1936	26.42	Avg. Grass	2.00	100	8.86	Short Grass Pasture	2.00	44	0.73	Paved	2.90	1792	8.53	0	0.00	18	0.72	4.76	90.5	5		Q = 90.5 - 16.61 - 11.3 - 13.94 - 12.66 - 11.02 - 15.5 = 9.47				
																					6.56	124.8	25		Q = 124.8 - 24.37 - 11.98 - 15.78 - 13.8 - 11.85 - 17.3 = 29.72				
																					8.16	155.2	100		Q = 155.2 - 31.24 - 12.52 - 17.64 - 14.72 - 12.45 - 19.36 = 47.27				
10	FUTURE DRAIN OUTFALL	A1+A2+A3+A4+B1+B2+B3+B4+B5	1936	26.42	Avg. Grass	2.00	100	8.86	Short Grass Pasture	2.00	44	0.73	Paved	2.90	1792	8.53	0	0.00	18	0.72	4.76	90.5	5		Q = 90.5 - 16.61 = 73.94				
																					6.56	124.8	25		Q = 124.8 - 24.37 = 100.42				
																					8.16	155.2	100		Q = 155.2 - 31.24 = 123.98				
11A	FUTURE CURB INLETS ON-GRADE	B1+B2+C1	1699	10.76	Avg. Grass	2.00	100	8.86	Short Grass Pasture	2.00	44	0.73	Paved	3.40	1555	7.00	0	0.00	16	0.72	5.06	39.2	5		Q = 39.2 - 4.69 = 34.51	14.50	20.01		
																					6.99	54.2	25		Q = 54.2 - 5.33 = 48.87	16.20	32.67		
																					8.71	67.5	100		Q = 67.5 - 5.86 = 61.64	17.62	44.02		
11B	FUTURE CURB INLETS ON-GRADE	B1+B2+C1	1699	10.76	Avg. Grass	2.00	100	8.86	Short Grass Pasture	2.00	44	0.73	Paved	3.40	1555	7.00	0	0.00	16	0.72	5.06	39.2	5		Q = 39.2 - 4.69 - 14.5 = 20.01	12.30	7.71		
																					6.99	54.2	25		Q = 54.2 - 5.33 - 16.2 = 32.67	13.92	18.75		
																					8.71	67.5	100		Q = 67.5 - 5.86 - 17.62 = 44.02	15.24	28.78		
12	CURB INLETS ON-GRADE	C2	1265	7.64	Avg. Grass	2.00	100	8.86	Short Grass Pasture	2.00	136	2.27	Paved	4.60	1029	3.90	0	0.00	15	0.72	5.24	28.8	5			13.06	15.74		
																					7.24	39.8	25			14.28	25.52		
																					9.03	49.7	100			15.28	34.42		
13	CURB INLET IN SUMP	B1+B2+C1+C2+C3	2075	19.79	Avg. Grass	2.00	100	8.86	Short Grass Pasture	2.00	44	0.73	Paved	3.10	1931	8.94	0	0.00	18	0.72	4.76	67.8	5		Q = 67.8 - 4.69 - 13.06 - 14.5 - 12.3 = 23.25				
																					6.56	93.5	25		Q = 93.5 - 5.33 - 14.28 - 16.2 - 13.92 = 43.77				
																					8.16	116.3	100		Q = 116.3 - 5.86 - 15.28 - 17.62 - 15.24 = 62.30				
14	DRAIN OUTFALL	B1+B2+C1+C2+C3	2075	19.79	Avg. Grass	2.00	100	8.86	Short Grass Pasture	2.00	44	0.73	Paved	3.10	1931	8.94	0	0.00	18	0.72	4.76	67.8	5		Q = 67.8 - 4.69 = 63.11				
																					6.56	93.5	25		Q = 93.5 - 5.33 = 88.17				
																					8.16	116.3	100		Q = 116.3 - 5.86 = 110.44				
15	FUTURE STREET CAPACITY / STREET INTERCEPT	D1	1001	3.87	Avg. Grass	2.00	100	8.86	Short Grass Pasture	2.00	29	0.48	Paved	5.20	872	3.16	0	0.00	12	0.72	5.81	16.2	5			4.05	12.15		
																					8.12	22.6	25			4.85	17.75		
																					10.14	28.3	100			5.30	23.00		
16	FUTURE CURB INLETS ON-GRADE	D1+D2	1620	6.06	Avg. Grass	2.00	100	8.86	Short Grass Pasture	2.00	29	0.48	Paved	4.20	1491	5.92	0	0.00	15	0.72	5.24	22.9	5		Q = 22.9 - 12.15 = 10.71	10.71	0.00		
																					7.24	31.6	25		Q = 31.6 - 17.75 = 13.84	12.54	1.30		
																					9.03	39.4	100		Q = 39.4 - 23 = 16.4	13.08	3.32		
17	FUTURE STREET CAPACITY	D1+D3	1317	5.27	Avg. Grass	2.00	100	8.86	Short Grass Pasture	2.00	29	0.48	Paved	4.80	1188	4.40	0	0.00	13	0.72	5.61	21.3	5		Q = 21.3 - 4.05 = 17.25				
																					7.82	29.7	25		Q = 29.7 - 4.85 = 24.85				
																					9.76	37.0	100		Q = 37 - 5.3 = 31.70				
18	FUTURE CURB INLETS ON-GRADE	D1+D3+D4	1698	8.55	Avg. Grass	2.00	100	8.86	Short Grass Pasture	2.00	29	0.48	Paved	4.10	1569	6.38	0	0.00	15	0.72	5.24	32.3	5		Q = 32.3 - 4.05 = 28.25	13.00	15.25		
																					7.24	44.6	25		Q = 44.6 - 4.85 = 39.75	14.28	25.47		
																					9.03	55.6	100		Q = 55.6 - 5.3 = 50.30	15.34	34.96		
19	FUTURE CURB INLET IN SUMP	D1+D2+D3+D4+D5	1864	12.77	Avg. Grass	2.00	100	8.86	Short Grass Pasture	2.00	29	0.48	Paved	3.90	1735	7.23	0	0.00	16	0.72	5.06	46.5	5		Q = 46.5 - 13 - 10.71 = 22.79				
																					6.99	64.3	25		Q = 64.3 - 14.28 - 12.54 = 37.48				
																					8.71	80.1	100		Q = 80.1 - 15.34 - 13.08 = 51.68				
20	FUTURE DRAIN OUTFALL	D1+D2+D3+D4+D5	1864	12.77	Avg. Grass	2.00	100	8.86	Short Grass Pasture	2.00	29	0.48	Paved	3.90	1735	7.23	0	0.00	16	0.72	5.06	46.5	5						
																					6.99	64.3	25						
																					8.71	80.1	100						
21	FUTURE STREET CAPACITY / STREET INTERCEPT	F1	357	0.97	Avg. Grass	2.00	100	8.86	Short Grass Pasture	2.00	22	0.37	Paved	1.20	235	1.78	0	0.00	10	0.72	6.24	4.4	5			2.20	2.20		
																					8.76	6.1	25			2.76	3.34		
																					10								

PROPOSED CONDITION DRAINAGE SUMMARY TABLE

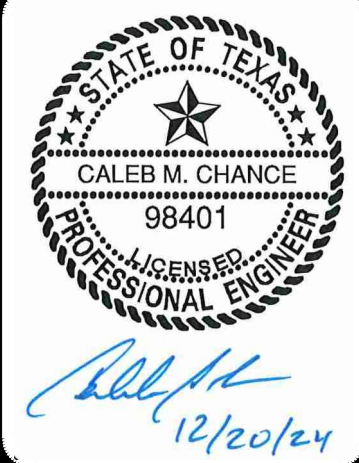
STONEHILL UNIT 4A - PROPOSED CONDITION - DRAINAGE SUMMARY TABLE																										
						Overland Flow			Shallow Concentrated							Channel Flow			Total					Curb Inlet		
Point	Structure	Area	Total Flow Length (ft)	Total Area (ac)	Character of Ground	Slope %	L (ft)	Tc (min)	Surface	Slope %	L (ft)	Tc (min)	Surface	Slope %	L (ft)	Tc (min)	L (ft)	Tc (min)	Tc (min)	C	I	Q (cfs)	Frequency (yrs)	Total Q ₂₅ (Q-Intercept/Bypass)	Intercept	Bypass
6		B1	544	1.74	Avg. Grass	2.00	100	8.86	Short Grass Pasture	2.00	44	0.73	Paved	2.90	400	1.90	0	0.00	11	0.72	6.02	7.5	5			
									8.43												10.6	25				
									10.54												13.2	100				
									5.24												28.8	5				
12		C2	1265	7.64	Avg. Grass	2.00	100	8.86	Short Grass Pasture	2.00	136	2.27	Paved	4.60	1029	3.90	0	0.00	15	0.72	7.24	39.8	25			
									9.03												49.7	100				
									5.24												34.1	5				
									7.24												47.1	25				
13		C2+C3	1407	9.03	Avg. Grass	2.00	100	8.86	Short Grass Pasture	2.00	136	2.27	Paved	4.20	1171	4.65	0	0.00	15	0.72	9.03	58.7	100			
									5.24												34.1	5				
									7.24												47.1	25				
									9.03												58.7	100				
14		C2+C3	1407	9.03	Avg. Grass	2.00	100	8.86	Short Grass Pasture	2.00	136	2.27	Paved	4.20	1171	4.65	0	0.00	15	0.72	5.24	34.1	5			
									7.24												47.1	25				
									9.03												58.7	100				
									6.02												9.5	5				
15		D1	687	2.20	Avg. Grass	2.00	100	8.86	Short Grass Pasture	2.00	29	0.48	Paved	6.10	558	1.86	0	0.00	11	0.72	8.43	13.4	25			
									10.54												16.7	100				

DRAINAGE LEGEND

PROJECT LIMITS
EXISTING 2' CONTOUR
EXISTING 10' CONTOUR
100-YR FLOODPLAIN (EXISTING)
100-YR FLOODPLAIN (PROPOSED)
(LOMR CASE NO. 20-1399P)
RUNOFF FLOW PATH
DRAINAGE AREA BOUNDARY
DIRECTION OF FLOW
DRAINAGE CALCULATION POINT
DRAINAGE AREA
FHA LOT GRADING TYPE



DATE	
NO.	
REVISION	



12/20/24

PAPE-DAWSON ENGINEERS

2000 NW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000
TEXAS ENGINEERING FIRM #470 | TEXAS SURVEYING FIRM #1002800

STONEHILL, UNIT-4A
SAN ANTONIO, TEXAS

OVERALL MASTER DRAINAGE PLAN
(PROPOSED CONDITIONS)

PLAT NO.	24-11800201
JOB NO.	12456-16
DATE	MAY 2024
DESIGNER	CB
CHECKED	BL
DRAWN	CB
SHEET	C1.02

HYDRAULIC CALCULATIONS STORM DRAIN (DRAIN B1) STA. 1+35.00 TO 2+65.74	HYDRAULIC CALCULATIONS STORM DRAIN (DRAIN B1) STA. 2+69.41 TO 2+90.34	HYDRAULIC CALCULATIONS STORM DRAIN (DRAIN B1) STA. 2+97.38 TO 4+12.50	HYDRAULIC CALCULATIONS STORM DRAIN (DRAIN B1) STA. 4+16.51 TO 4+37.03	HYDRAULIC CALCULATIONS STORM DRAIN (DRAIN B2) STA. 1+02.00 TO 1+09.51
Q25 = 88.17 cfs Sf = 0.33% Vf = 7.42 fps n = 0.013 D = 3.00' S = 0.40%	Q25 = 44.40 cfs Sf = 0.07% Vf = 2.97 fps n = 0.013 D = 3.00' S = 0.40%	Q25 = 14.28 cfs Sf = 0.51% Vf = 5.41 fps n = 0.013 D = 2.00' S = 2.00%	Q25 = 7.14 cfs Sf = 0.09% Vf = 2.47 fps n = 0.013 D = 2.00' S = 0.40%	Q25 = 7.14 cfs Sf = 0.10% Vf = 2.27 fps n = 0.013 D = 2.00' S = 0.40%

HYDRAULIC CALCULATIONS—DRAIN B1 "B1-1"
TOTAL Q25 = 43.77 CFS

Q25 = CA/2gn (ORIFICE FLOW EON.)
A = L(0.50), h = 0.54, g = 32.2, c = 0.7
43.77 CFS
L = (0.7) (0.50) $\sqrt{2}$ (32.2) (0.54)

L = 21.21 FT USE 1 ~ 25 FT CURB INLET

CHECK WITH WEIR FORMULA
 $h = \left(\frac{Q}{CL} \right)^{2/3} = \left(\frac{43.77}{(3.087) (25)} \right)^{2/3} = 0.69$ FT.

h = 0.69 < 0.79 OK

HYDRAULIC CALCULATIONS—DRAIN B1 "B1-4"
**REFERENCE STORMWATER MANAGEMENT PLAN FOR ON-GRADE CURB INLET CALCULATIONS

HYDRAULIC CALCULATIONS—DRAIN B2 "B2-1"
**REFERENCE STORMWATER MANAGEMENT PLAN FOR ON-GRADE CURB INLET CALCULATIONS

KEY LEGEND:

- (A) 10' ELEC., GAS, TELE, & CA. T.V. EASEMENT
- (B) 18' PRIVATE DRAINAGE EASEMENT
- (C) CONCRETE COLLARS (SEE SHEET C1.11 FOR DETAIL)
- (D) 4' SIDEWALK
- (E) 4' DEVELOPER SIDEWALK
- (F) 70'X293' DRAINAGE EASEMENT (.471 OF AN ACRE, OFF-LOT, PERMEABLE)
- (G) 5' WATER EASEMENT
- (H) 15' ELEC., GAS, TELE, & CA. T.V. EASEMENT
- (I) CONTRACTOR TO GROUT BOTTOM OF BOX TO ALLOW FOR POSITIVE DRAINAGE

TRENCH EXCAVATION SAFETY PROTECTION:

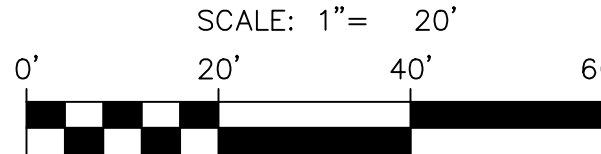
CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR STRUCTURAL DESIGN/ GEOTECHNICAL/ SAFETY/EQUIPMENT CONSULTANT, IF ANY, SHALL REVIEW THESE PLANS AND ANY AVAILABLE GEOTECHNICAL INFORMATION AND THE ANTICIPATED INSTALLATION SITES WITHIN THE PROJECT WORK AREA IN ORDER TO IMPLEMENT CONTRACTOR'S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

CAUTION!!

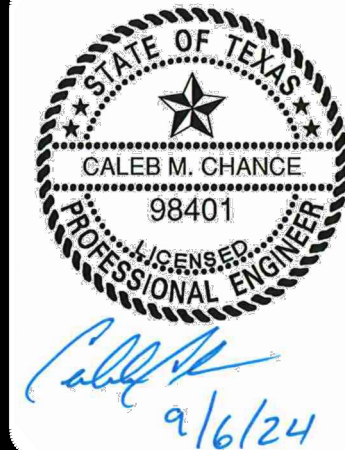
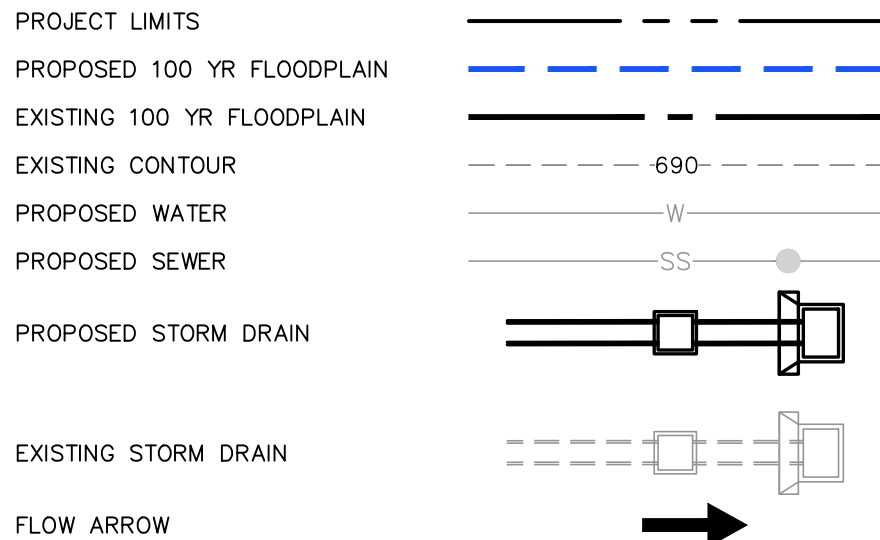
CONTRACTOR SHALL BE REQUIRED TO LOCATE ALL PUBLIC OR PRIVATE UTILITIES INCLUDING BUT NOT LIMITING TO: WATER, SEWER, TELEPHONE AND FIBER OPTIC LINES, SITE LIGHTING ELECTRIC, SECONDARY ELECTRIC, PRIMARY ELECTRICAL DUCTBANKS, LANDSCAPE IRRIGATION FACILITIES, AND GAS LINES. ANY UTILITY CONFLICTS THAT ARISE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

DRAINAGE & GRADING NOTES:

- 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.
- 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.
- ALL CONCRETE FOR TxDOT DRAINAGE STRUCTURES SHALL MEET TxDOT SPECIFICATIONS. ALL OTHER CONCRETE SHALL BE CLASS "A" 3000 PSI CYLINDER STRENGTH IN 28 DAYS.
- REFERENCE DRAINAGE DETAILS FOR PIPE TRENCH DETAILS, BOX CULVERT, HEADWALL, AND WINGWALL CONSTRUCTION DETAILS, AND BOX CULVERT BEDDING AND EXCAVATION LIMITS.
- CONTRACTOR SHALL GROUT ALL CURB INLETS AND JUNCTION BOXES TO PROVIDE FOR POSITIVE DRAINAGE.
- 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.
- CONTRACTOR SHALL MATCH TOP OF CHANNEL TO NATURAL GROUND AND MAINTAIN A MINIMUM CHANNEL DEPTH OF "D" AS SHOWN IN THE PROFILE.



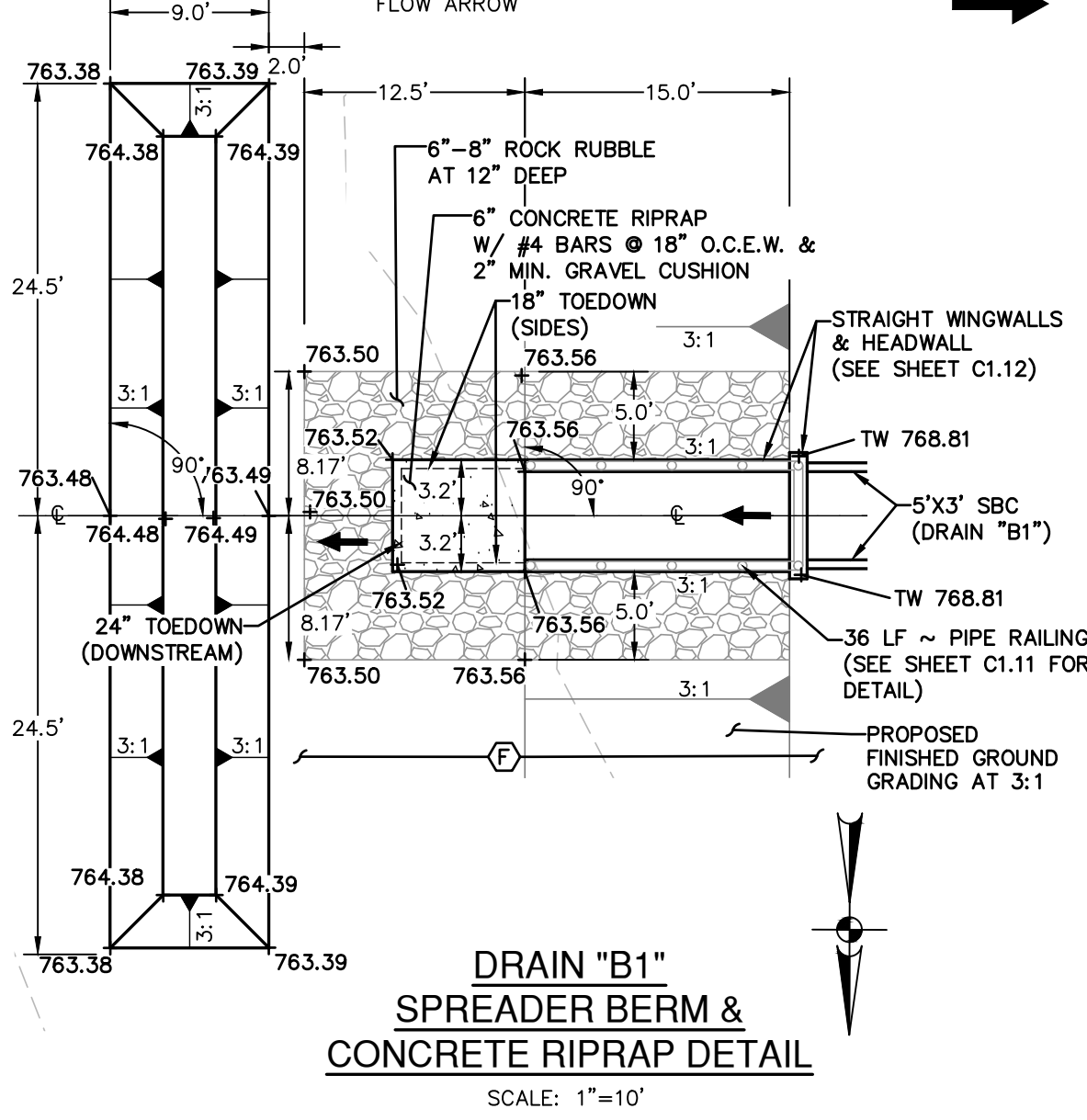
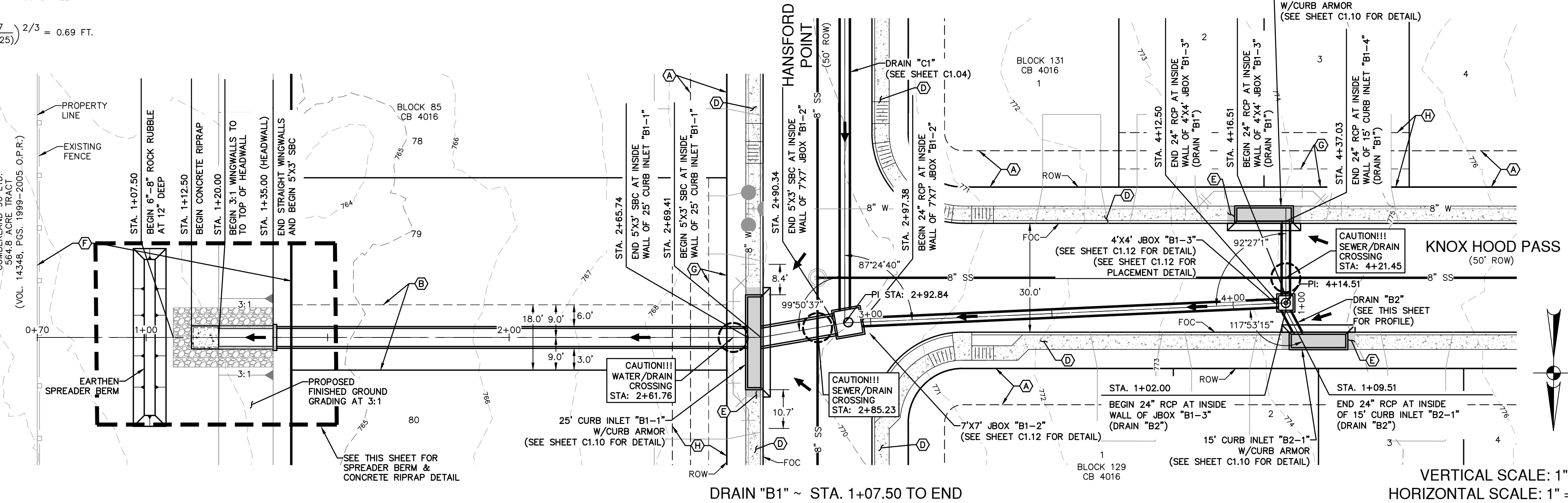
DRAINAGE LEGEND



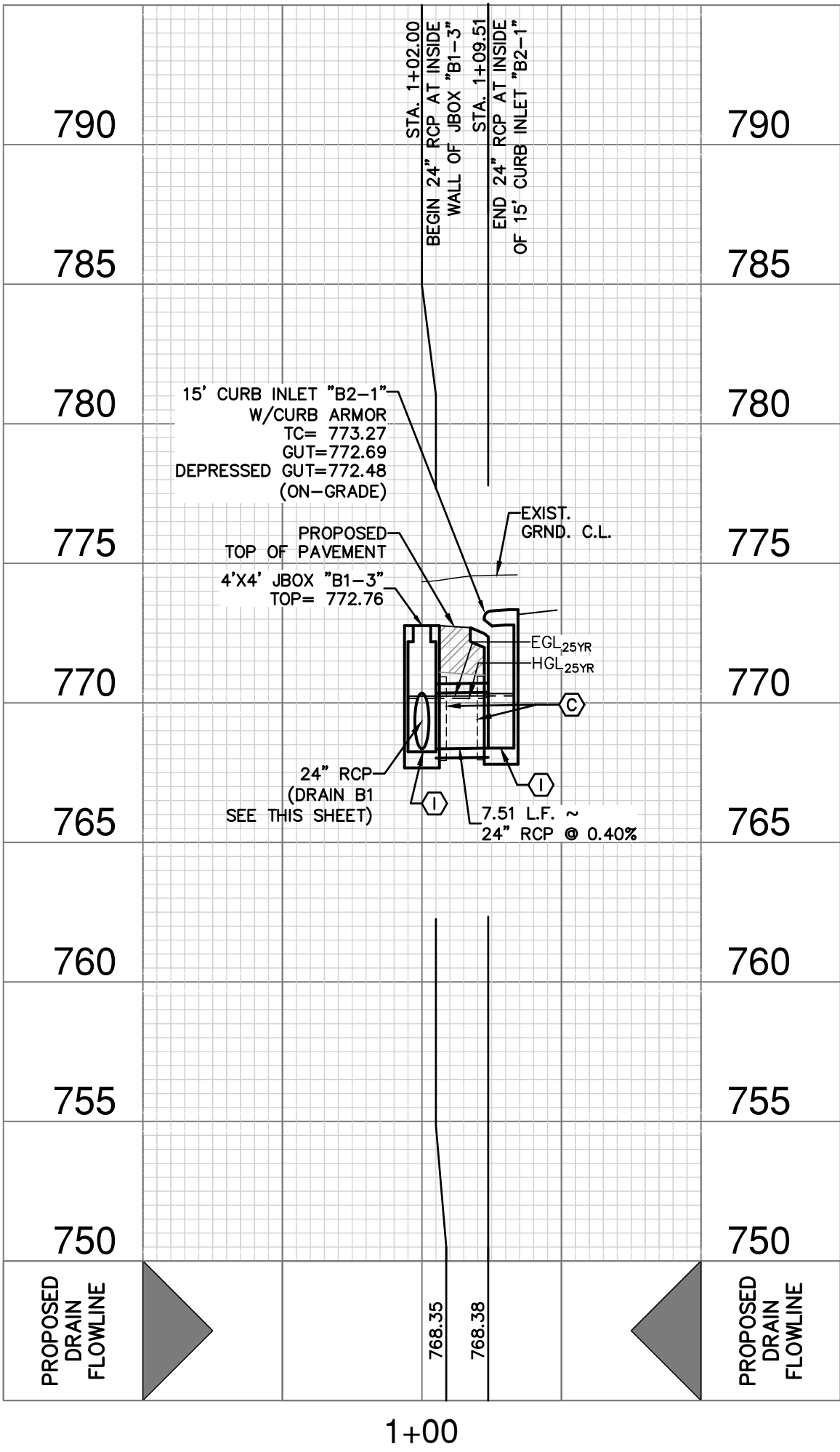
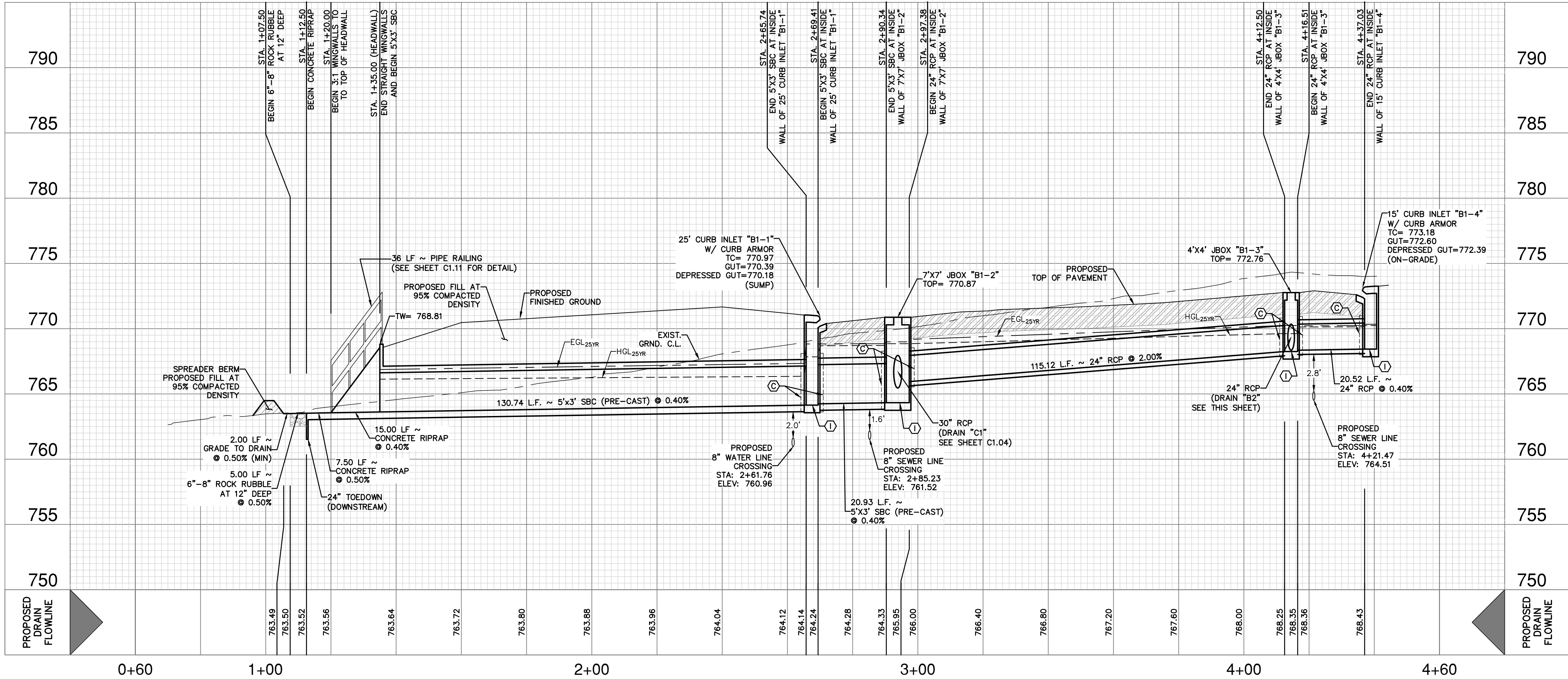
PAPE-DAWSON ENGINEERS
2000 NW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000
TEXAS ENGINEERING FIRM #470 | TEXAS SURVEYING FIRM #10028600

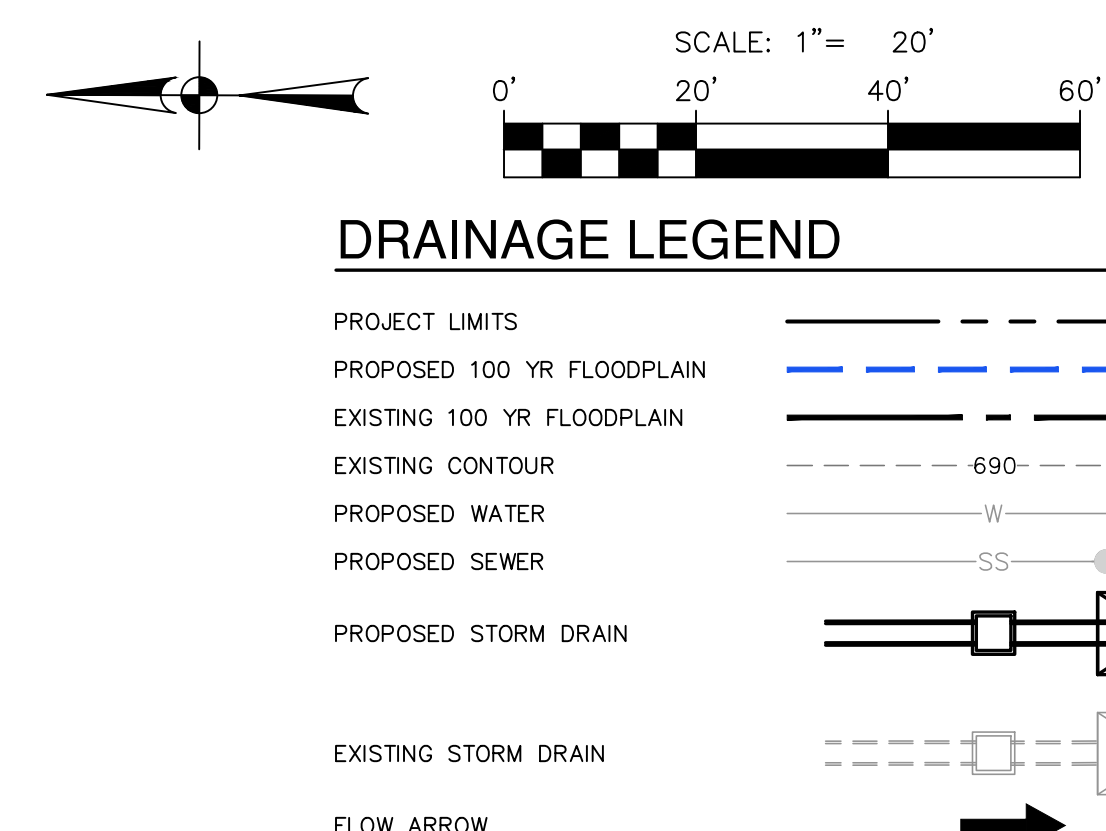
STONEHILL, UNIT-4A
SAN ANTONIO, TEXAS
DRAIN "B1" ~ STA. 1+07.20 TO END
DRAIN "B2" ~ STA. 1+02.00 TO END
DRAIN PLAN & PROFILE

PLAT NO. 24-11800201
JOB NO. 12456-16
DATE MAY 2024
DESIGNER CB
CHECKED BL DRAWN CB
SHEET C1.03

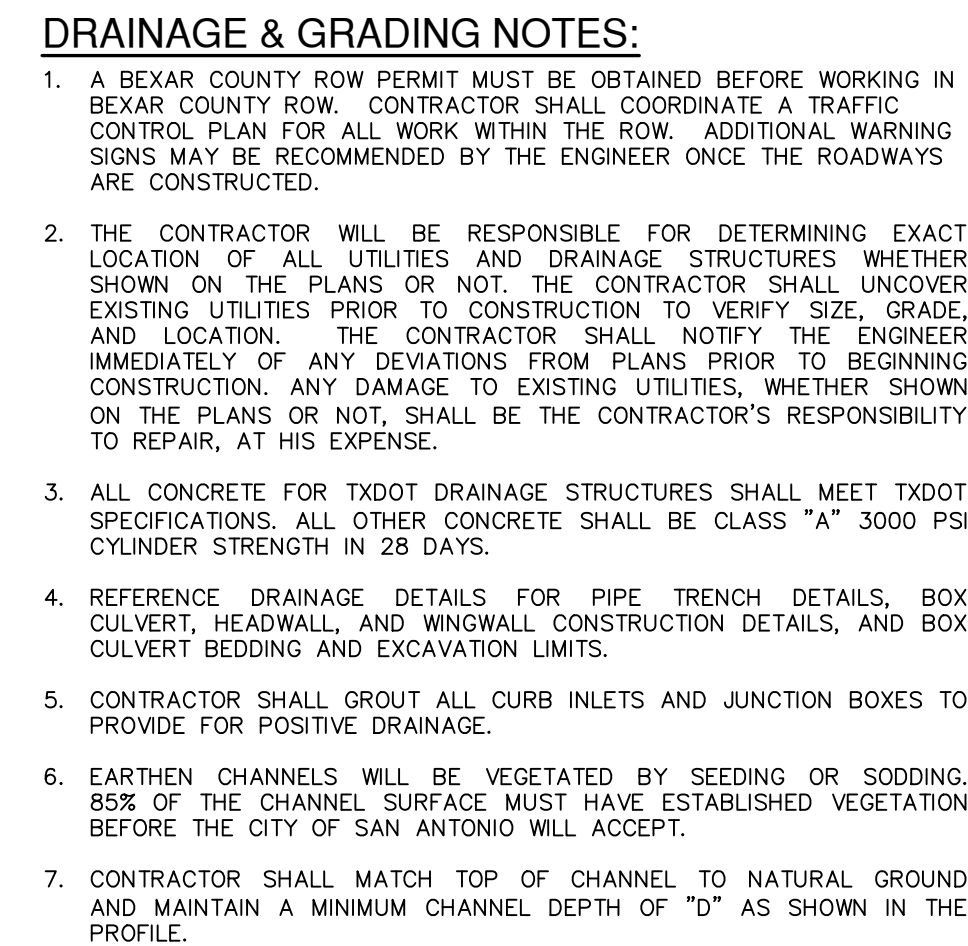


DRAIN "B2" ~ STA. 1+02.00 TO END
VERTICAL SCALE: 1" = 5'
HORIZONTAL SCALE: 1" = 20'





<p align="center">HYDRAULIC CALCULATIONS</p> <p align="center">STORM DRAIN (DRAIN C1)</p> <hr/> <p align="center">STA. 1+03.55 TO 2+70.42</p> <hr/> <p>Q25 = 30.12 cfs</p> <p>Sf = 0.54%</p> <p>Vf = 6.14 fps</p> <p>n = 0.013</p> <p>D = 2.50'</p> <p>S = 0.75%</p>
--



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 PROJECT DESCRIPTION TO DETERMINE THE APPROPRIATE PROJECT WORK AREA IN ORDER TO IMPLEMENT CONTRACTOR'S TRENCH EXCAVATION SAFETY PROTECTION SYSTEMS, PROGRAMS AND/OR PROCEDURES FOR THE PROJECT DESCRIBED IN THE CONTRACT DOCUMENTS. THE CONTRACTOR'S IMPLEMENTATION OF THESE SYSTEMS, PROGRAMS AND/OR PROCEDURES SHALL PROVIDE FOR ADEQUATE TRENCH EXCAVATION SAFETY PROTECTION THAT COMPLY AT A MINIMUM, WITH 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 ALL OSHA STANDARDS COVERING 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 ELECTRIC, DUCTBANKS, LANDSCAPE IRRIGATION FACILITIES, AND GAS LINES PRIOR TO ANY CONSTRUCTION. THE CONTRACTOR SHALL BE REQUIRED TO LOCATE ALL UTILITIES IMMEDIATELY AND PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL CONTACT 1-800-DIG-TESS A MINIMUM OF 48 HOURS PRIOR TO THE START OF CONSTRUCTION. ANY DAMAGE TO EXISTING UTILITIES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND THE REPAIR SHALL BE AT CONTRACTOR'S SOLE EXPENSE. WHETHER THE UTILITY IS SHOWN ON THESE PLANS OR NOT.

STONEHILL, UNIT-4A
SAN ANTONIO, TEXAS

PLAT NO. 24-1180020

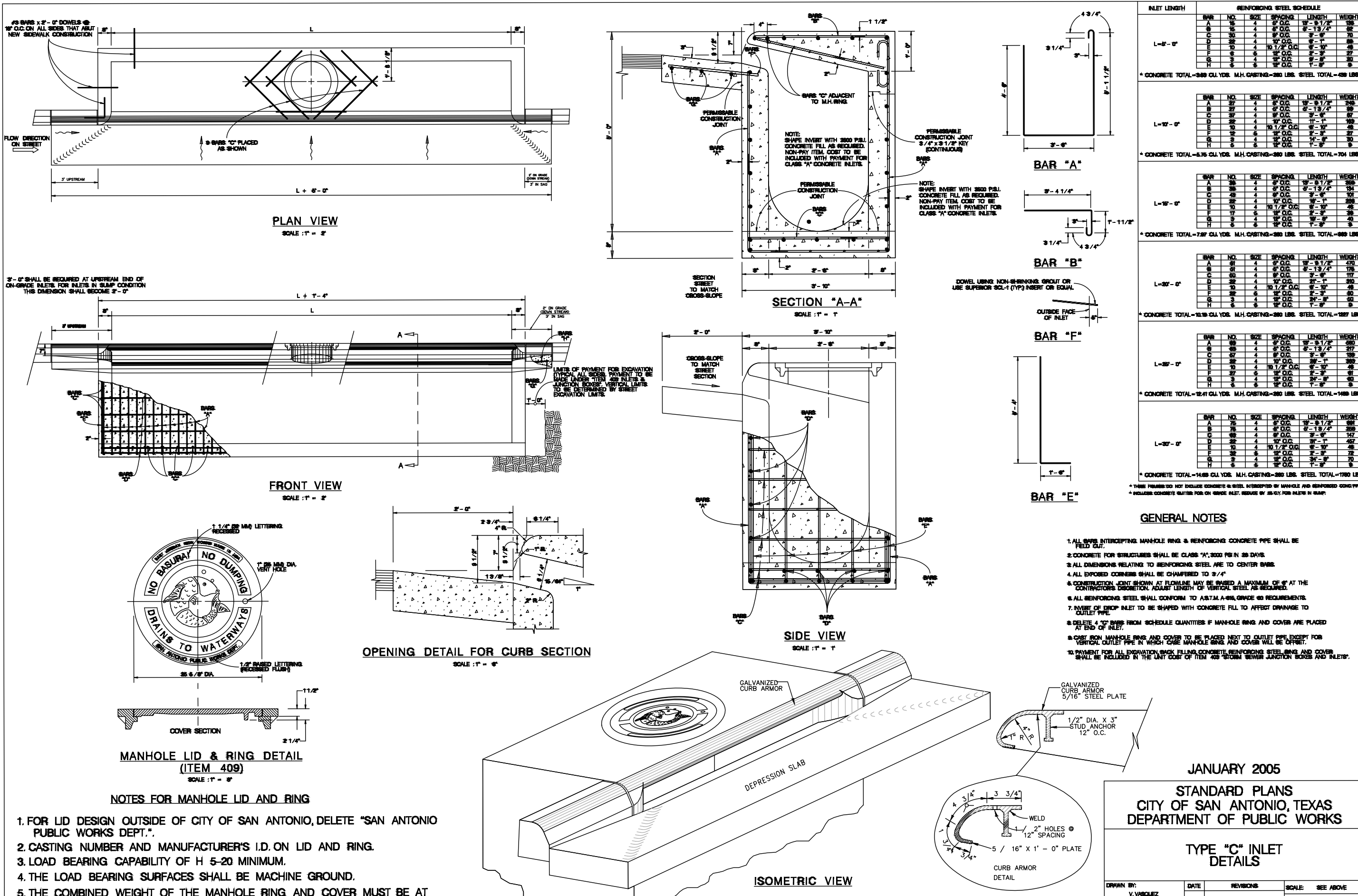
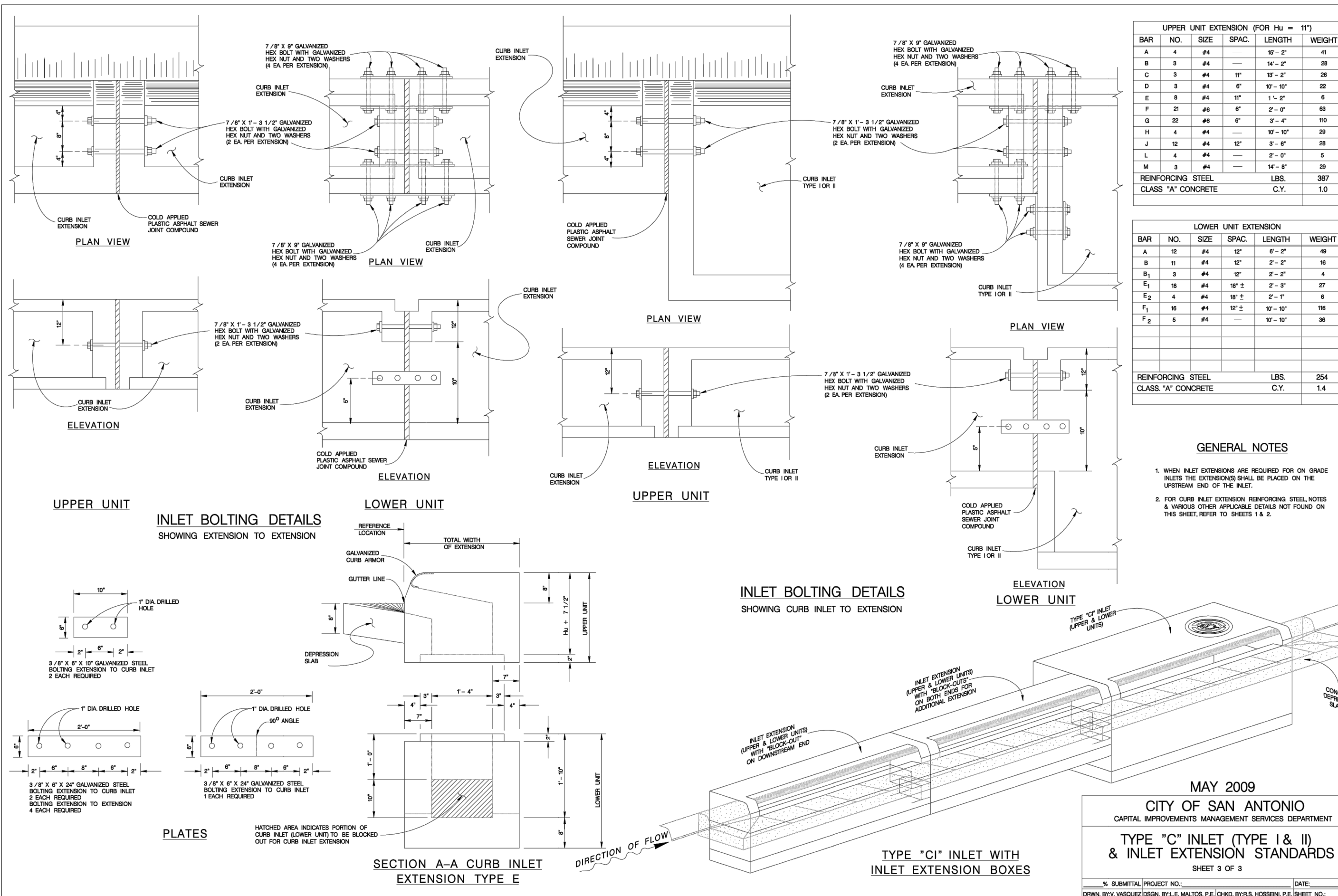
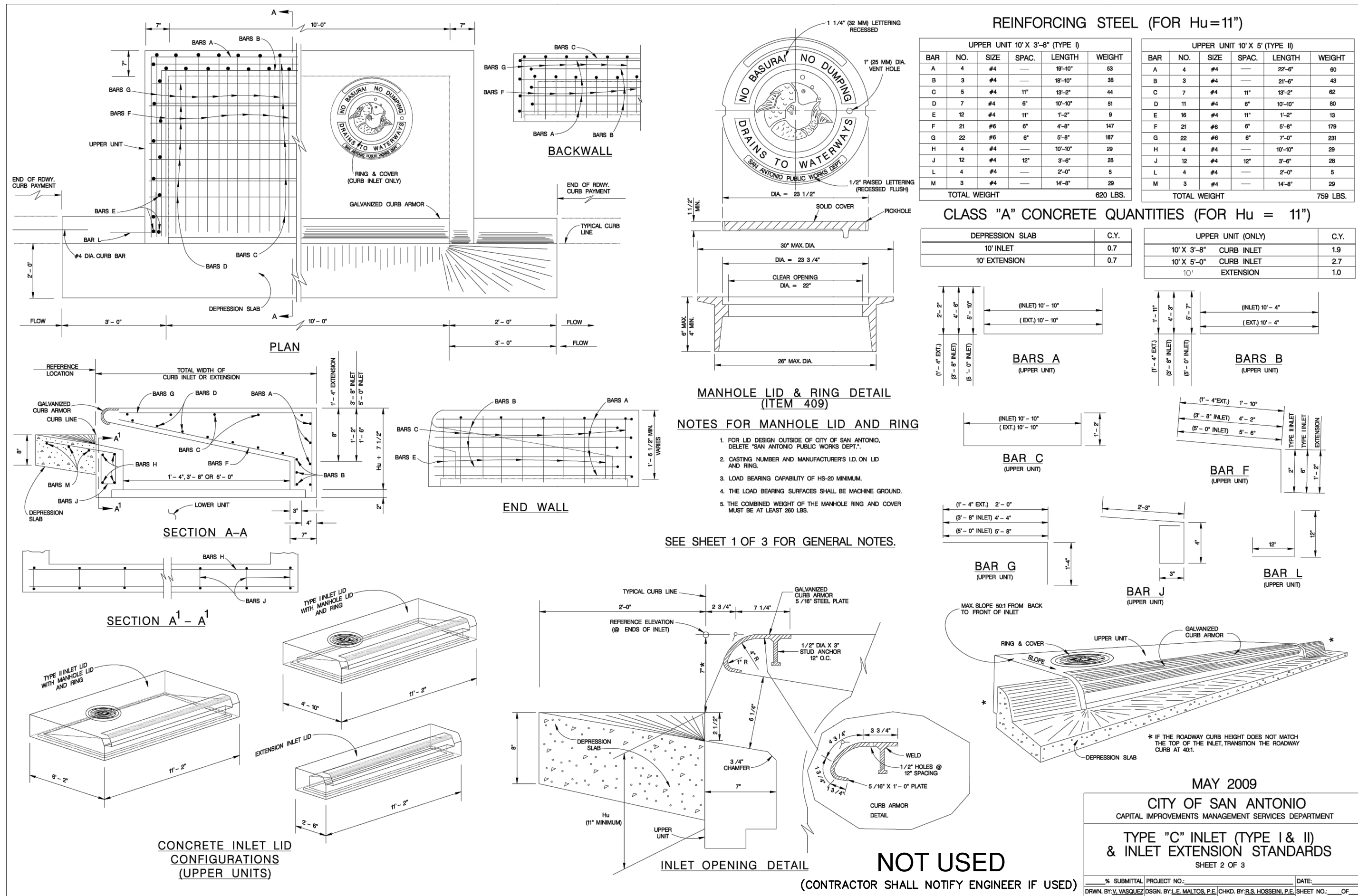
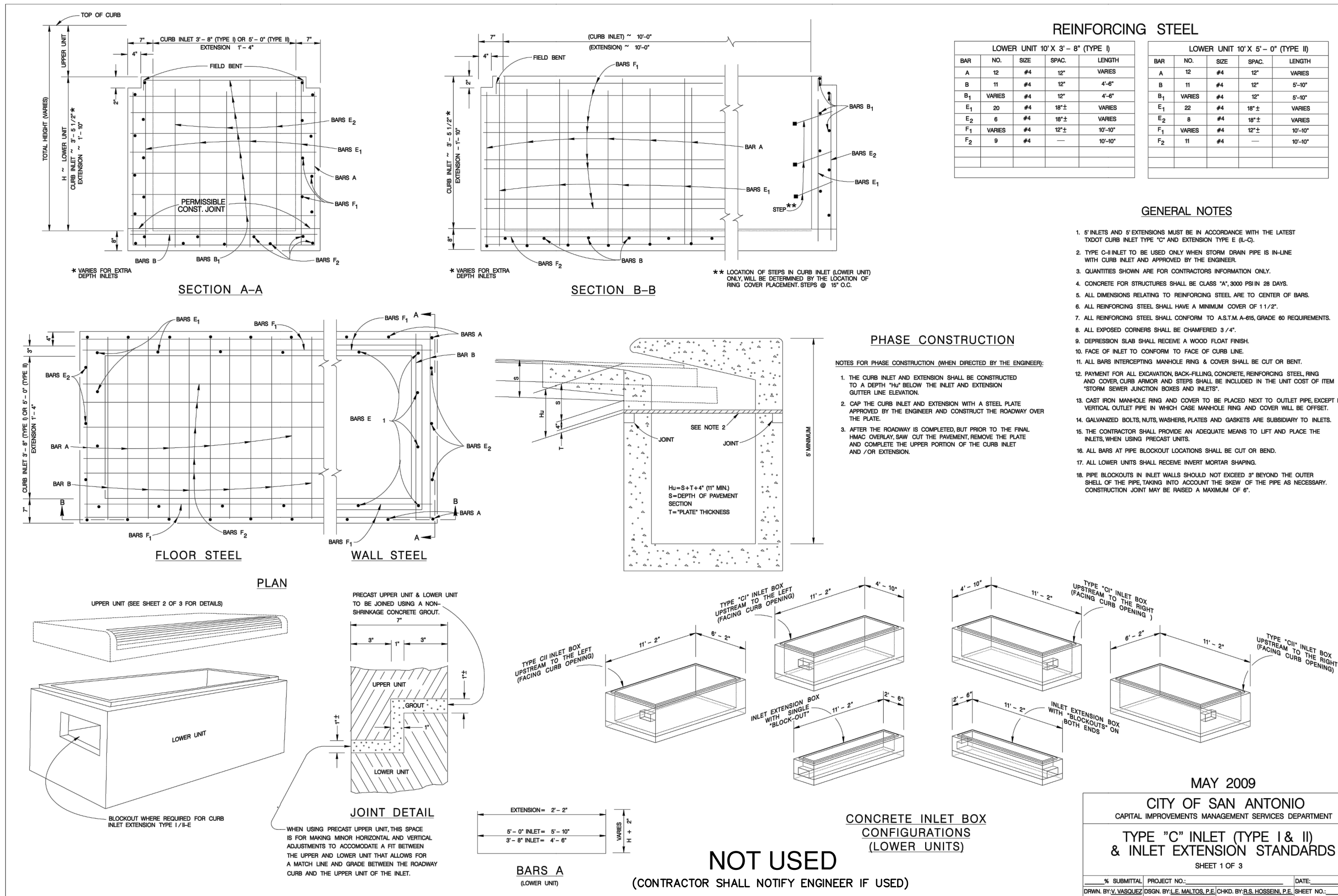
JOB NO. 12456-16

DATE MAY 2024

DESIGNER CB

CHECKED BL DRAWN CB

SHEET C1.04



DATE: _____

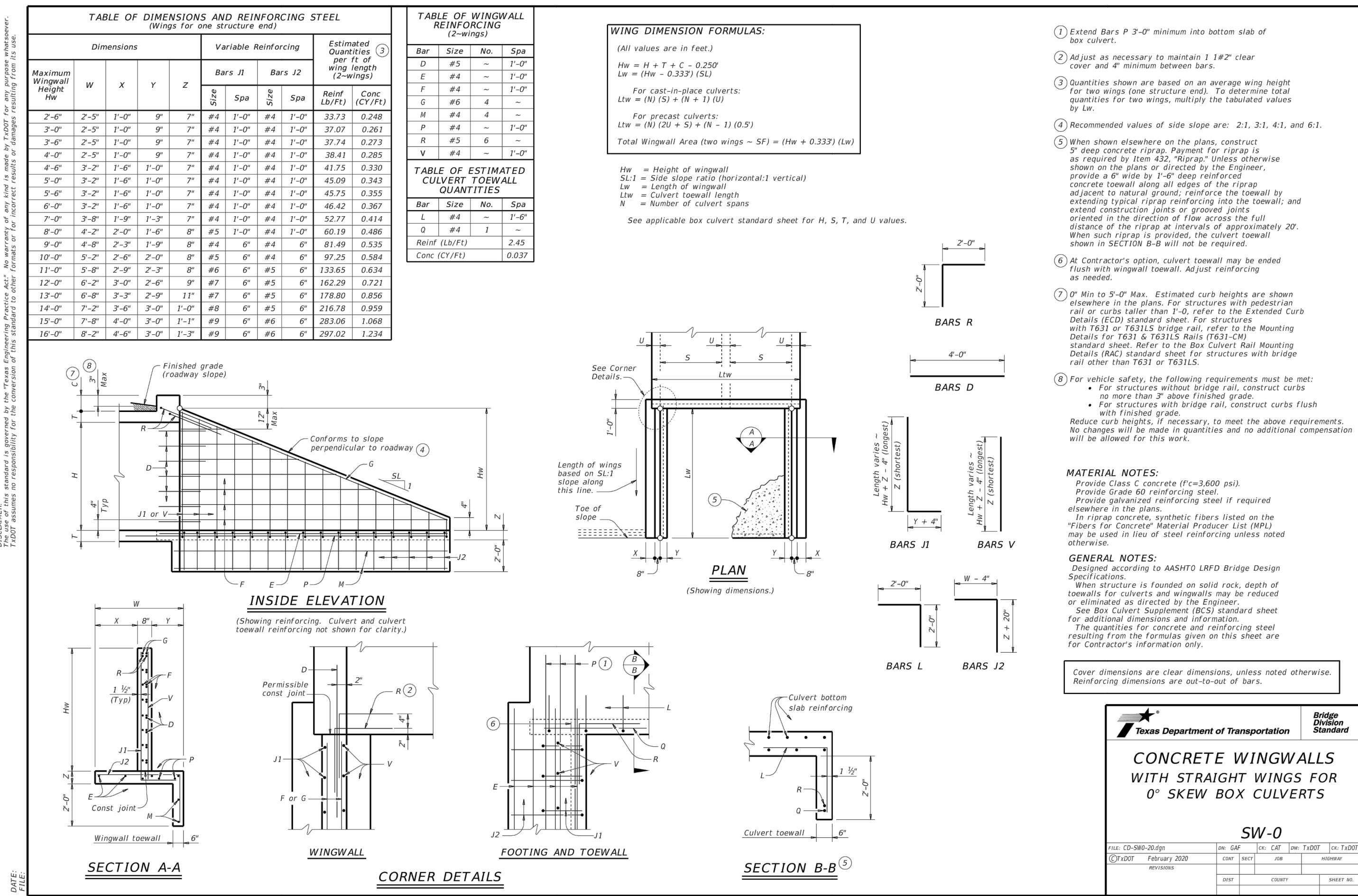
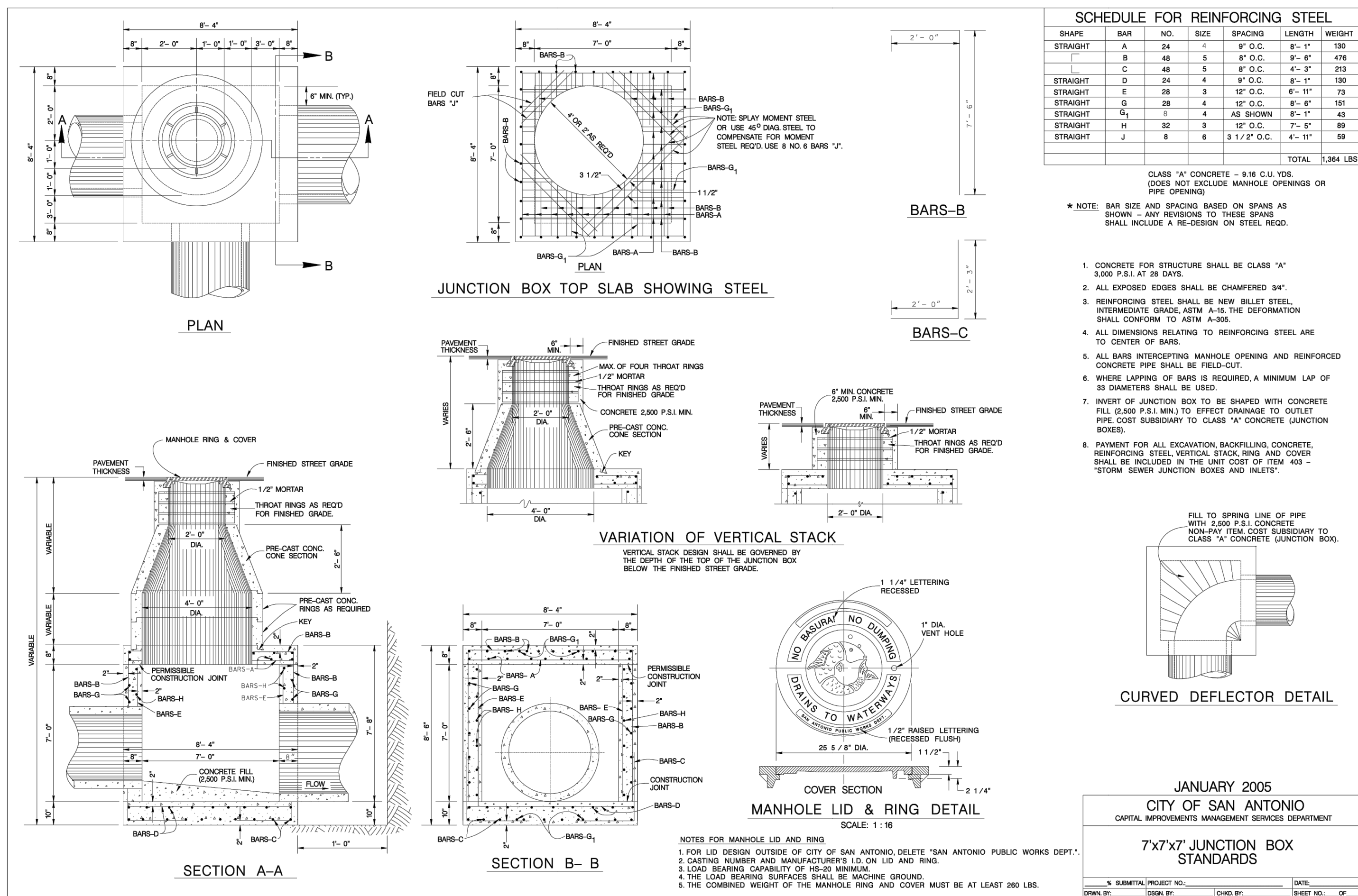
NO. REVISION: _____

STATE OF TEXAS
CALEB M. CHANGE
PROFESSIONAL ENGINEER
98401
9/6/24

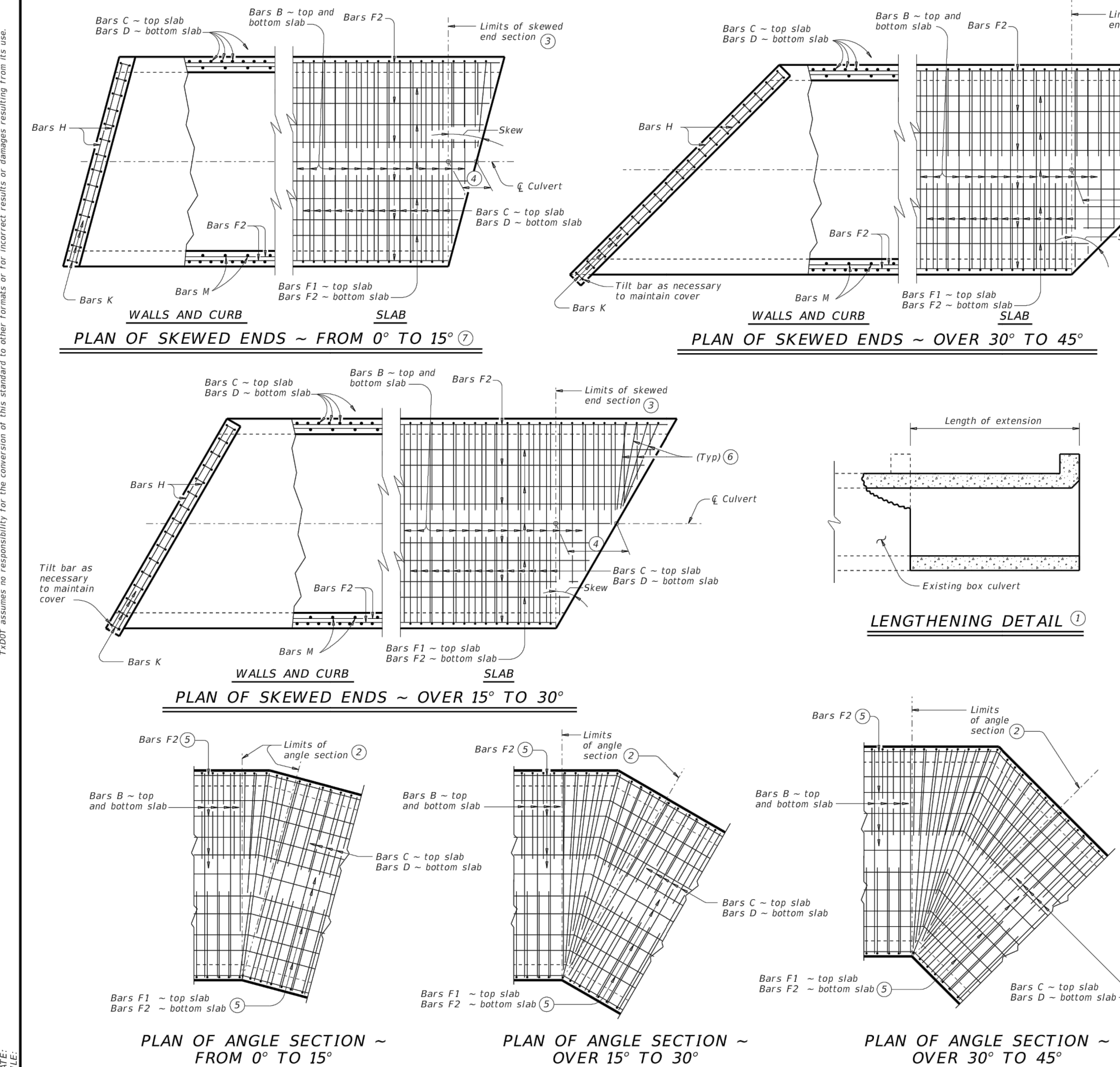
PAPE-DAWSON ENGINEERS
2000 NW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000
TEXAS ENGINEERING FIRM #470 | TEXAS SURVEYING FIRM #10028600

STONEHILL, UNIT-4A
SAN ANTONIO, TEXAS
DRAIN DETAILS

PLAT NO. 24-11800201
JOB NO. 12456-16
DATE MAY 20



DISCLAIMER: This standard is governed by the Texas Engineering Practice Act. No warranty of any kind is made by TxDOT for any purpose whatsoever. TxDOT assumes no responsibility for the conversion of this standard to other formats or for incorrect results or damages resulting from its use.



HL93 LOADING SHEET 2 OF 2

TEXAS DEPARTMENT OF TRANSPORTATION

BRIDGE DIVISION STANDARD

SINGLE BOX CULVERTS CAST-IN-PLACE 0' TO 30' FILL

SCC-5 & 6

FILE: CD-SCC5-21.dgn

DATE: February 2020

BY: [signature]

CHK: [signature]

APP: [signature]

STATE: [blank]

COUNTY: [blank]

SHEET NO: [blank]

HL93 LOADING SHEET 1 OF 2

TEXAS DEPARTMENT OF TRANSPORTATION

BRIDGE DIVISION STANDARD

SINGLE BOX CULVERTS CAST-IN-PLACE 0' TO 30' FILL

SCC-5 & 6

FILE: CD-SCC5-21.dgn

DATE: February 2020

BY: [signature]

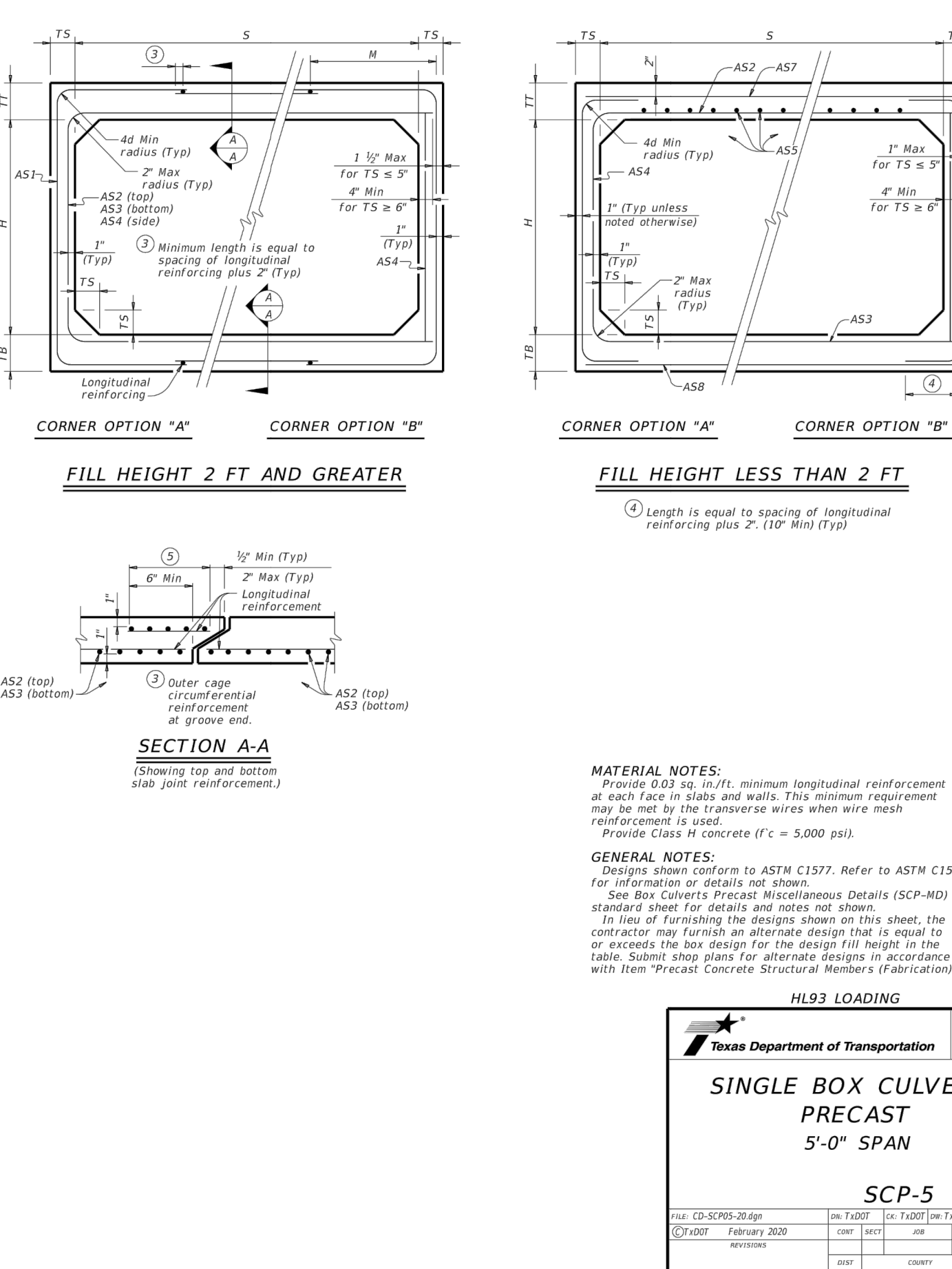
CHK: [signature]

APP: [signature]

STATE: [blank]

COUNTY: [blank]

SHEET NO: [blank]



HL93 LOADING SHEET 1 OF 2

TEXAS DEPARTMENT OF TRANSPORTATION

BRIDGE DIVISION STANDARD

SINGLE BOX CULVERTS CAST-IN-PLACE 0' TO 30' FILL

SCC-5 & 6

FILE: CD-SCC5-21.dgn

DATE: February 2020

BY: [signature]

CHK: [signature]

APP: [signature]

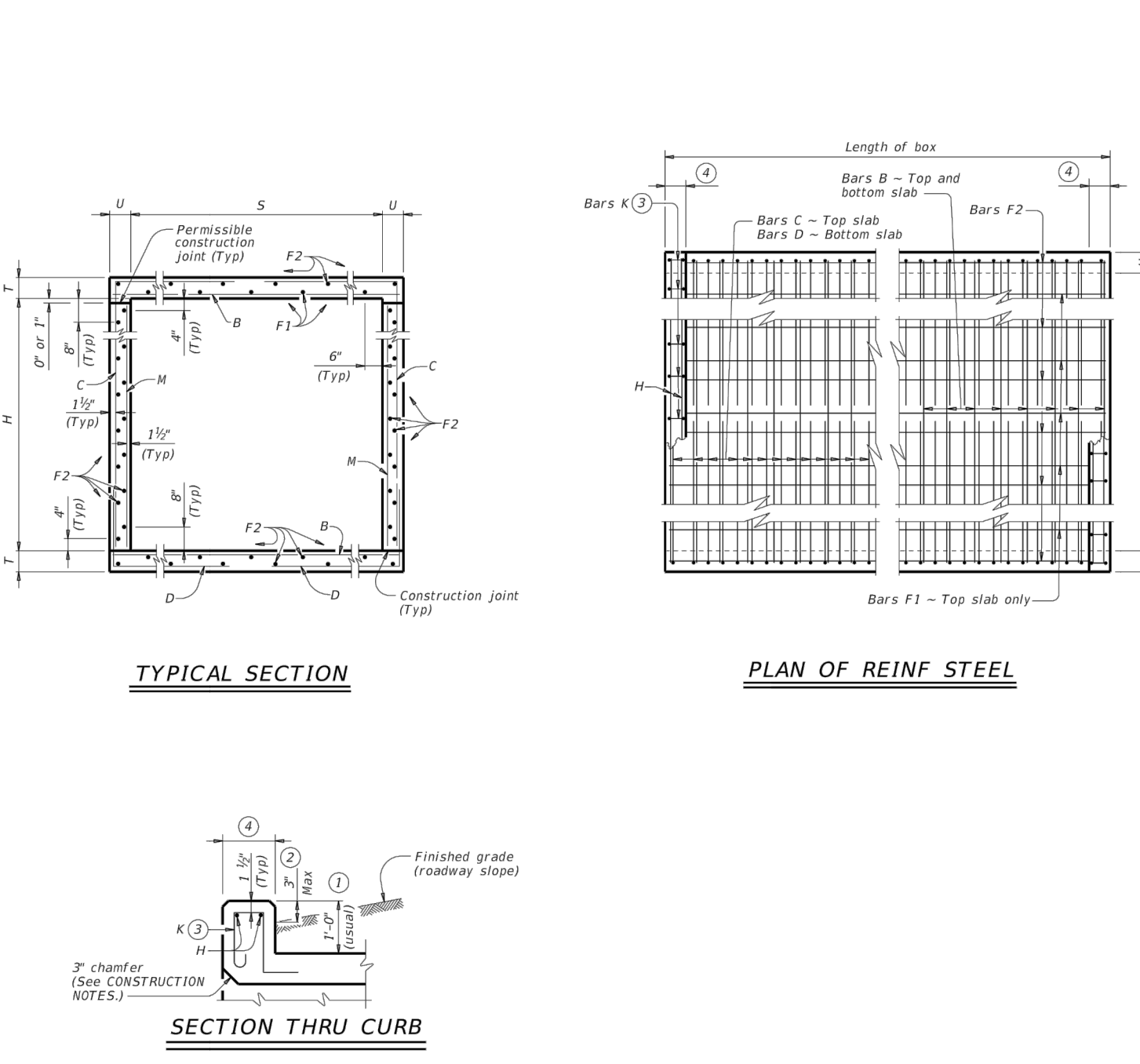
STATE: [blank]

COUNTY: [blank]

SHEET NO: [blank]

SECTION DIMENSIONS				FILL HEIGHT	BILLS OF REINFORCING STEEL (For Box Length = 40 feet)																																								QUANTITIES							
					Bars B				Bars C				Bars D				Bars M - #4				Bars F1 - #4 at 18" Spa				Bars F2 - #4 at 18" Spa				Bars H - #4				Bars K		Per Foot of Barrel		Curb		Total													
S	H	T	U		No.	Size	Length	Weight	No.	Size	Length	Weight	* X *	* Y *	No.	Size	Length	Weight	* Y *	* Z *	No.	Size	Length	Weight	No.	Length	WT	No.	Length	Weight	Length	WT	No.	WT	No.	Cnc (Ct)	Reinf (Lb)	Cnc (Lb)	Reinf (Lb)	Cnc (Lb)	Reinf (Lb)											
5'-0"	2'-0"	8"	7"	26	108	#6	9"	5'-11"	960	108	#5	9"	6'-3"	704	2'-6"	3'-9"	108	#5	9"	6'-5"	723	3'-9"	2'-8"	108	#5	9"	2'-0"	144	4	39	9"	106	22	39	9"	584	5'-11"	16	14	39	0.391	80.5	0.5	55	16.1	3.276						
5'-0"	2'-0"	9"	7"	30	108	#6	9"	5'-11"	960	108	#5	9"	6'-4"	713	2'-7"	3'-9"	108	#5	9"	6'-6"	732	3'-9"	2'-9"	108	#5	9"	2'-0"	144	4	39	9"	106	22	39	9"	584	5'-11"	16	14	39	0.429	81.0	0.5	55	17.6	3.294						
5'-0"	3'-0"	8"	7"	26	108	#6	9"	5'-11"	960	108	#5	9"	7'-4"	826	3'-7"	3'-9"	108	#5	9"	6'-6"	732	3'-9"	2'-8"	108	#5	9"	3'-0"	216	4	39	9"	106	26	39	9"	690	5'-11"	16	14	39	0.434	87.8	0.5	55	17.8	3.567						
5'-0"	3'-0"	9"	7"	30	108	#6	9"	5'-11"	960	108	#5	9"	7'-5"	839	3'-8"	3'-9"	108	#5	9"	6'-7"	743	3'-9"	2'-9"	108	#5	9"	3'-0"	216	4	39	9"	106	26	39	9"	690	5'-11"	16	14	39	0.472	88.3	0.5	55	19.3	3.585						
5'-0"	4'-0"	8"	7"	26	108	#6	9"	5'-11"	960	108	#5	9"	8'-4"	939	4'-7"	3'-9"	108	#5	9"	6'-5"	723	3'-9"	2'-8"	108	#5	9"	4'-0"	289	4	39	9"	106	26	39	9"	690	5'-11"	16	14	39	0.477	92.4	0.5	55	19.5	3.752						
5'-0"	4'-0"	9"	7"	30	108	#6	9"	5'-11"	960	108	#5	9"	8'-5"	952	4'-8"	3'-9"	108	#5	9"	6'-6"	732	3'-9"	2'-9"	108	#5	9"	4'-0"	289	4	39	9"	106	26	39	9"	690	5'-11"	16	14	39	0.515	92.9	0.5	55	21.1	3.771						
5'-0"	5'-0"	8"	7"	26	108	#6	9"	5'-11"	960	108	#5	9"	9'-3"	1,042	5'-6"	3'-9"	108	#5	9"	6'-5"	723	3'-9"	2'-8"	108	#5	9"	5'-0"	361	4	39	9"	106	30	39	9"	797	5'-11"	16	14	39	0.521	99.7	0.5	55	21.3	4.044						
5'-0"	5'-0"	9"	7"	30	108	#6	9"	5'-11"	960	108	#5	9"	9'-4"	1,051	5'-7"	3'-9"	108	#5	9"	6'-6"	732	3'-9"	2'-9"	108	#5	9"	5'-0"	361	4	39	9"	106	30	39	9"	797	5'-11"	16	14	39	0.559	100.2	0.5	55	22.8	4.062						
6'-0"	2'-0"	8"	7"	20	108	#6	9"	6'-11"	1,122	108	#5	9"	6'-7"	742	2'-6"	4'-1"	108	#5	9"	6'-9"	760	4'-1"	2'-8"	108	#5	9"	2'-0"	144	5	39	9"	133	25	39	9"	664	6'-11"	18	16	45	0.440	89.1	0.5	63	18.1	3.628						
6'-0"	2'-0"	9"	7"	26	108	#6	9"	6'-11"	1,122	162	#5	9"	6'-8"	1,126	2'-7"	4'-1"	162	#5	9"	6'-10"	1,155	4'-1"	2'-9"	108	#5	9"	2'-0"	144	5	39	9"	133	25	39	9"	664	6'-11"	18	16	45	0.485	108.6	0.5	63	19.9	4.407						
6'-0"	2'-0"	10"	8"	30	108	#6	9"	6'-11"	1,149	162	#5	9"	6'-10"	1,155	2'-8"	4'-2"	162	#5	9"	6'-11"	1,183	4'-2"	2'-10"	82	12"	4'-0"	219	5	39	9"	133	25	39	9"	664	6'-11"	18	16	45	0.551	109.9	0.5	69	22.6	4.463							
6'-0"	3'-0"	8"	7"	20	108	#6	9"	6'-11"	1,122	108	#5	9"	7'-7"	854	3'-6"	4'-1"	108	#5	9"	6'-9"	760	4'-1"	2'-8"	108	#5	9"	3'-0"	216	5	39	9"	133	29	39	9"	770	6'-11"	18	16	45	0.484	96.4	0.5	63	19.9	3.918						
6'-0"	3'-0"	9"	7"	26	108	#6	9"	6'-11"	1,122	162	#5	9"	7'-8"	1,295	3'-7"	4'-1"	162	#5	9"	6'-10"	1,155	4'-1"	2'-9"	108	#5	9"	3'-0"	216	5	39	9"	133	29	39	9"	770	6'-11"	18	16	45	0.528	117.3	0.5	63	21.6	4.754						
6'-0"	3'-0"	10"	8"	30	108	#6	9"	6'-11"	1,149	162	#5	9"	7'-10"	1,324	3'-8"	4'-2"	162	#5	9"	6'-11"	1,183	4'-2"	2'-10"	82	12"	4'-0"	219	5	39	9"	133	29	39	9"	770	6'-11"	18	16	45	0.601	118.1	0.5	69	24.6	4.752							
6'-0"	4'-0"	8"	7"	20	108	#6	9"	6'-11"	1,122	108	#5	9"	8'-7"	967	4'-6"	4'-1"	108	#5	9"	6'-9"	760	4'-1"	2'-8"	108	#5	9"	4'-0"	289	5	39	9"	133	29	39	9"	770	6'-11"	18	16	45	0.527	101.0	0.5	63	21.6	4.104						
6'-0"	4'-0"	9"	7"	26	108	#6	9"	6'-11"	1,122	162	#5	9"	8'-8"	1,464	4'-7"	4'-1"	162	#5	9"	6'-10"	1,155	4'-1"	2'-9"	108	#5	9"	4'-0"	289	5	39	9"	133	29	39	9"	770	6'-11"	18	16	45	0.571	123.3	0.5	63	23.4	4.996						
6'-0"	4'-0"	10"	8"	30	108	#6	9"	6'-11"	1,149	162	#5	9"	8'-10"	1,493	4'-8"	4'-2"	162	#5	9"	6'-11"	1,183	4'-2"	2'-10"	82	12"	4'-0"	219	5	39	9"	133	29	39	9"	770	6'-11"	18	16	45	0.650	123.7	0.5	69	26.5	5.016							
6'-0"	5'-0"	8"	7"	20	108	#6	9"	6'-11"	1,122	108	#5	9"	9'-7"	1,080	5'-0"	4'-1"	108	#5	9"	6'-9"	760	4'-1"	2'-8"	108	#5	9"	5'-0"	361	5	39	9"	133	33	39	9"	876	6'-11"	18	16	45	0.570	108.3	0.5	63	23.3	4.395						
6'-0"	5'-0"	9"	7"	26	108	#6	9"	6'-11"	1,122	162	#5	9"	9'-8"	1,633	5'-7"	4'-1"	162	#5	9"	6'-10"	1,155	4'-1"	2'-9"	108	#5	9"	5'-0"	361	5	39	9"	133	33	39	9"	876	6'-11"	18	16	45	0.614	132.0	0.5	63	25.1	5.343						
6'-0"	5'-0"	10"	8"	30	108	#6	9"	6'-11"	1,149	162	#5	9"	9'-10"	1,661	5'-8"	4'-2"	162	#5	9"	6'-11"	1,183	4'-2"	2'-10"	82	12"	5'-0"	274	5	39	9"	133	33	39	9"	876	6'-11"	18	16	45	0.700	131.9	0.5	69	28.5	5.345							
6'-0"	6'-0"	8"	7"	20	108	#6	9"	6'-11"	1,122	108	#5	9"	10'-7"	1,192	6'-6"	4'-1"	108	#5	9"	6'-9"	760	4'-1"	2'-8"	108	#5	9"	6'-0"	433	5	39	9"	133	37	39	9"	982	6'-11"	18	16	45	0.613	115.6	0.5	63	25.0	4.685						
6'-0"	6'-0"	9"	7"	26	108	#6	9"	6'-11"	1,122	162	#5	9"	10'-8"	1,802	6'-7"	4'-1"	162	#5	9"	6'-10"	1,155	4'-1"	2'-9"	108	#5	9"	6'-0"	433	5	39	9"	133	37	39	9"	982	6'-11"	18	16	45	0.657	140.7	0.5	63	26.8	5.609						
6'-0"	6'-0"	10"	8"	30	108	#6	9"	6'-11"	1,149	162	#5	9"	10'-10"	1,830	6'-8"	4'-2"	162	#5	9"	6'-11"	1,183	4'-2"	2'-10"	82	12"	6'-0"	329	5	39	9"	133	37	39	9"	982	6'-11"	18	16	45	0.749	140.2	0.5	69	30.5	5.675							

DISCLAIMER: This standard is governed by the Texas Engineering Practice Act. No warranty of any kind is made by TxDOT for any purpose whatsoever. TxDOT assumes no responsibility for the conversion of this standard to other formats or for incorrect results or damages resulting from its use.



CONSTRUCTION NOTES:

Do not use permanent forms.

Chamber the bottom edge of the top slab 3" at the entrance.

Optionally, raise construction joints shown at the flow line by a maximum of 6". If this option is taken, Bars H may be cut off or raised, Bars C and D may be reversed.

MATERIAL NOTES:

Provide Grade 60 reinforcing steel.

Provide galvanized reinforcing steel if required elsewhere in the plans.

Provide Class C concrete ($f'_c = 3,600$ psi) for culvert barrel and curb, with the following exceptions: provide Class S concrete ($f'_c = 4,000$ psi) for top slabs of:

- culverts with overlay,
- culverts with 1-in-2 course surface treatment, or
- culverts with the top slab as the final riding surface.

Provide bar laps, where required, as follows:

- uncoated or galvanized - #4 = 1'-8" Min
- uncoated or galvanized - #5 = 2'-1" Min
- uncoated or galvanized - #6 = 2'-6" Min

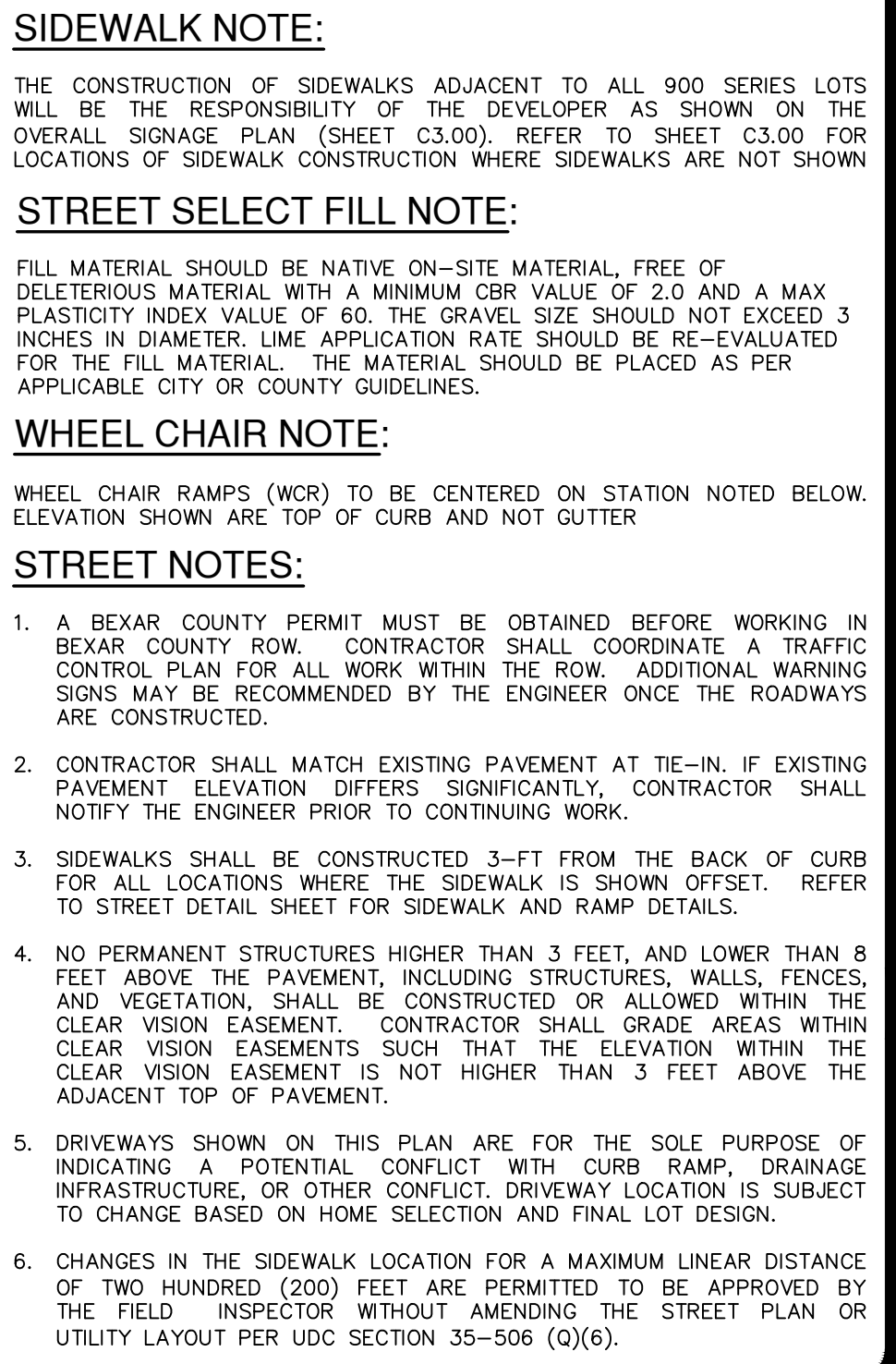
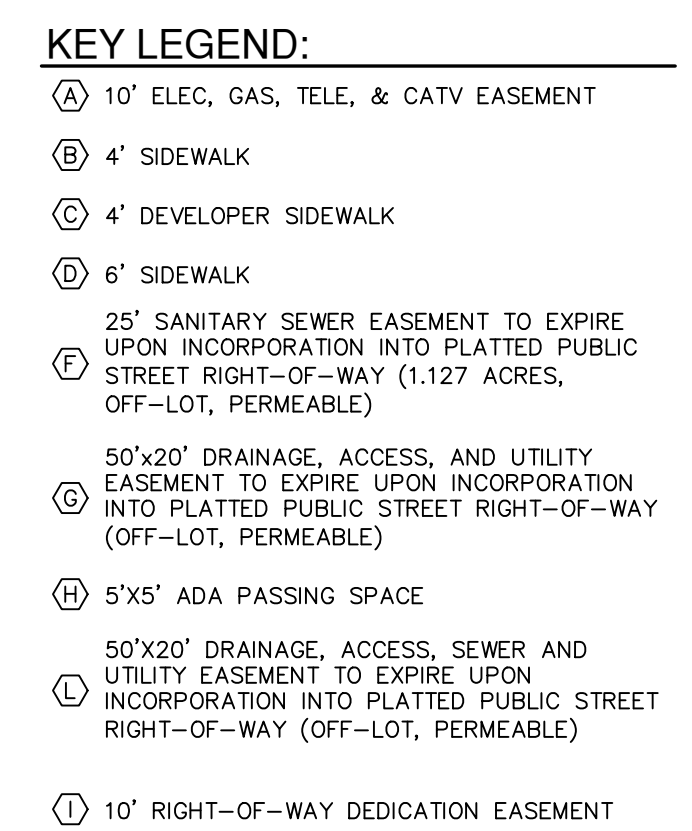
GENERAL NOTES:

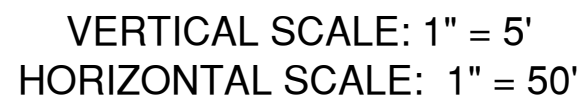
Designed according to AASHTO LRFD Bridge Design Specifications for the range of fill heights shown.

See the Single Box Culverts Cast-In-Place Miscellaneous Detail (SCC-MD) standard sheet for details pertaining to skewed ends, angle sections, and lengthening.

Cover dimensions are clear dimensions, unless noted otherwise.

Reinforcing bar dimensions shown are out-to-out of bar.





(A) 10' ELEC, GAS, TELE, & CATV EASEMENT

(B) 4' SIDEWALK

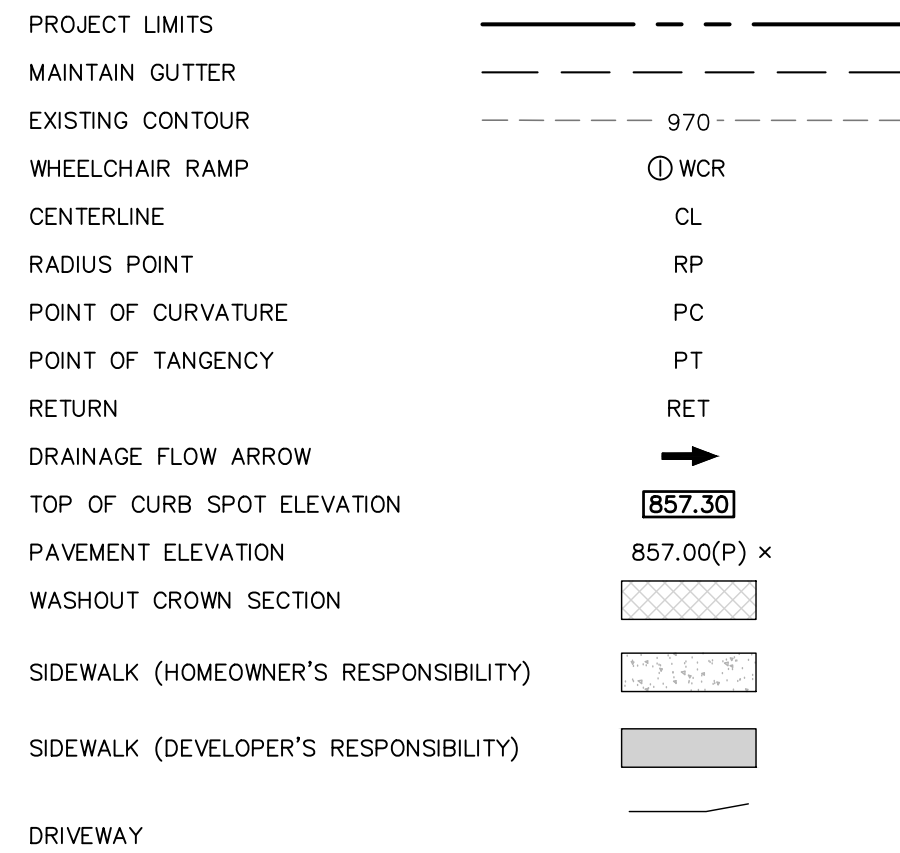
(C) 4' DEVELOPER SIDEWALK

(D) 25' SANITARY SEWER EASEMENT TO EXPIRE UPON INCORPORATION INTO PLATTED PUBLIC STREET RIGHT-OF-WAY (1.127 ACRES, OFF-LOT, PERMEABLE)

(E) 50'x20' DRAINAGE, ACCESS, SEWER AND UTILITY EASEMENT UPON INCORPORATION INTO PLATTED PUBLIC STREET RIGHT-OF-WAY (0.092 OF AN ACRE (COMBINED), OFF-LOT, PERMEABLE)

(F) 5'x5' ADA PASSING SPACE

(G) 50'x20' DRAINAGE, ACCESS, AND UTILITY EASEMENT UPON INCORPORATION INTO PLATTED PUBLIC STREET RIGHT-OF-WAY (0.092 OF AN ACRE (COMBINED), OFF-LOT, PERMEABLE)



1. A BEAR COUNTY PERMIT MUST BE OBTAINED BEFORE WORKING IN BEAR COUNTY ROW. CONTRACTOR SHALL COORDINATE A TRAFFIC CONTROL PLAN FOR ALL WORK WITHIN THE ROW. ADDITIONAL WARNING DEVICES MUST BE COMPLETED BY THE ENGINEER ONCE THE ROADWAY ARE CONSTRUCTED.
2. CONTRACTOR SHALL MATCH EXISTING PAVEMENT AT TIE-IN. IF EXISTING PAVEMENT ELEVATION DIFFERS SIGNIFICANTLY, CONTRACTOR SHALL NOTIFY THE ENGINEER PRIOR TO CONTINUING WORK.
3. SIDEWALKS SHALL BE CONSTRUCTED 3'-FT FROM THE BACK OF CURB FOR ALL LOCATIONS WHERE THE SIDEWALK IS SHOWN OFFSET. REFER TO STREET DETAIL SHEET FOR SIDEWALK AND RAMP DETAILS.
4. NO PERMANENT STRUCTURES HIGHER THAN 3 FEET, AND LOWER THAN 8 FEET ABOVE THE PAVEMENT, INCLUDING STRUCTURES, WALLS, FENCES, AND SIGNAGE, SHALL BE CONSTRUCTED OR ALLOWED WITHIN THE CLEAR VISION EASEMENT. CONTRACTOR SHALL GRADE AREAS WITHIN CLEAR VISION EASEMENTS SUCH THAT THE ELEVATION WITHIN THE CLEAR VISION EASEMENT IS NOT HIGHER THAN 3 FEET ABOVE THE ADJACENT TOP OF PAVEMENT.
5. DRIVEWAYS SHOWN ON THIS PLAN ARE FOR THE SOLE PURPOSE OF INDICATING A POTENTIAL CONFLICT WITH CURB RAMP, DRAINAGE INFRASTRUCTURE, OR OTHER CONFLICT. DRIVEWAY LOCATION IS SUBJECT TO CHANGE BASED ON HOME SELECTION AND FINAL LOT DESIGN.
6. CHANGES IN THE SIDEWALK LOCATION FOR A MAXIMUM LINEAR DISTANCE OF TWO HUNDRED (200) FEET ARE PERMITTED TO BE APPROVED BY THE INSPECTOR. THE INSPECTOR SHALL REVIEW THE STREET PLAN OR UTILITY LAYOUT PER UDC SECTION 356-506 (c)(6).

**PAPE-DAWSON
ENGINEERS**
2000 NW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000
TEXAS ENGINEERING FIRM #470 | TEXAS SURVEYING FIRM #100238600

STONEHILL, UNIT-4A
SAN ANTONIO, TEXAS

PLAT NO. 24-11800201
 JOB NO. 12456-16
 DATE MAY 2024
 DESIGNER CB
 CHECKED BL DRAWN CB
 SHEET C2.01



SIDEWALK NOTE:

THE CONSTRUCTION OF SIDEWALKS ADJACENT TO ALL 900 SERIES LOTS
WILL BE THE RESPONSIBILITY OF THE DEVELOPER AS SHOWN ON THE
OVERALL SIGNAGE PLAN (SHEET C3.00). REFER TO SHEET C3.00 FOR
LOCATIONS OF SIDEWALK CONSTRUCTION WHERE SIDEWALKS ARE NOT SHOWN

STREET SELECT FILL NOTE

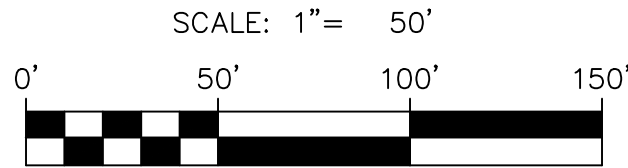
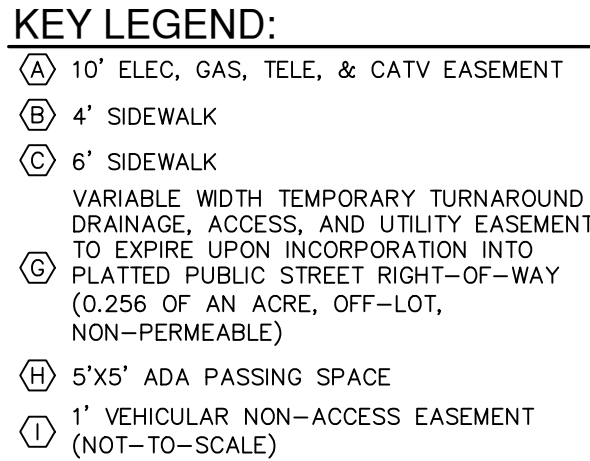
FILL MATERIAL SHOULD BE NATIVE ON-SITE MATERIAL, FREE OF DELETERIOUS MATERIAL WITH A MINIMUM CBR VALUE OF 2.0 AND A MAX PLASTICITY INDEX VALUE OF 60. THE GRAVEL SIZE SHOULD NOT EXCEED 3 INCHES IN DIAMETER. LIME APPLICATION RATE SHOULD BE RE-EVALUATED FOR THE FILL MATERIAL. THE MATERIAL SHOULD BE PLACED AS PER APPLICABLE CITY OR COUNTY GUIDELINES.

WHEEL CHAIR NOTE

WHEEL CHAIR RAMPS (WCR) TO BE CENTERED ON STATION NOTED BELOW
ELEVATION SHOWN ARE TOP OF CURB AND NOT GUTTER

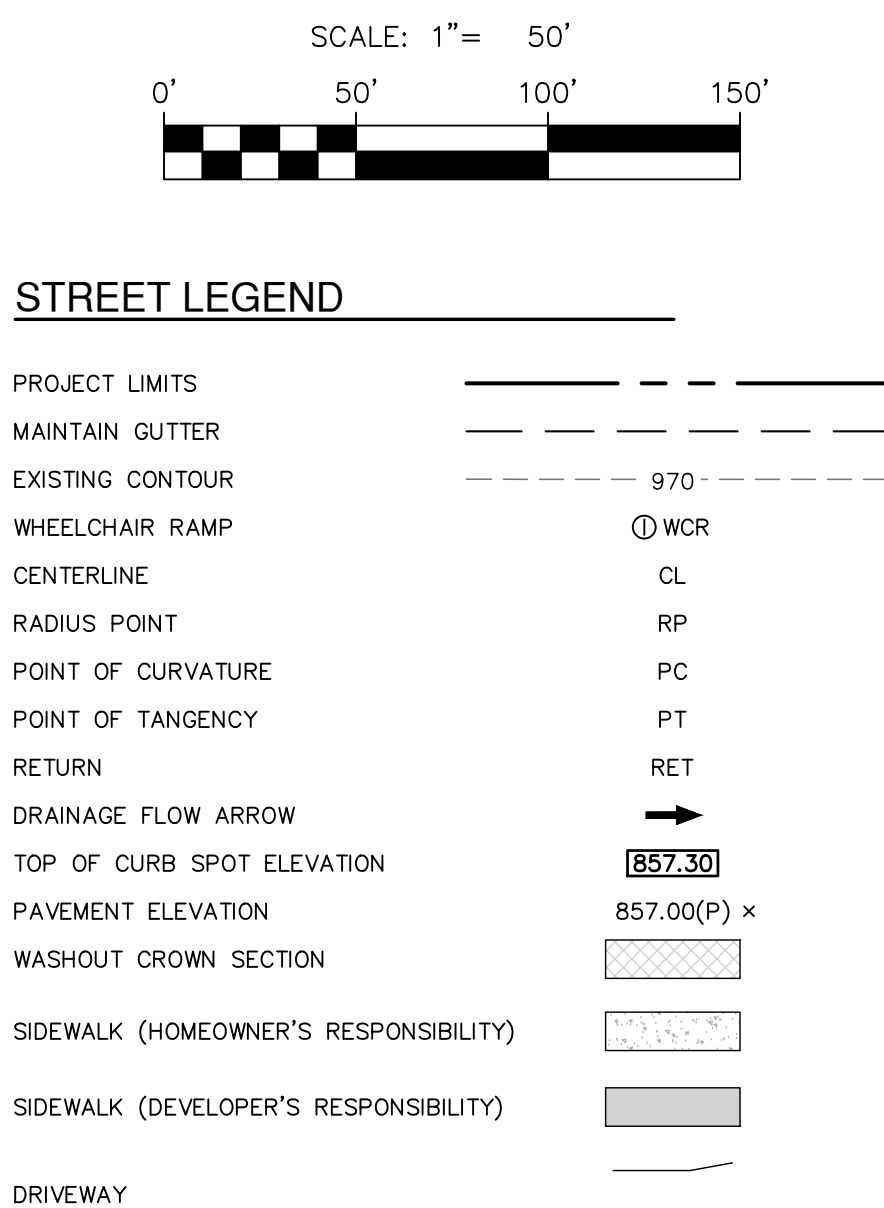
STREET NOTES:

1. A BEAR COUNTY PERMIT MUST BE OBTAINED BEFORE WORKING IN BEAR COUNTY ROW. CONTRACTOR SHALL COORDINATE A TRAFFIC CONTROL PLAN WITH THE BEAR COUNTY ENGINEER. ADDITIONAL WARNING SIGNS MAY BE RECOMMENDED BY THE ENGINEER ONCE THE ROADWAYS ARE CONSTRUCTED.
2. CONTRACTOR SHALL MATCH EXISTING PAVEMENT AT THE-IN. IF EXISTING PAVEMENT ELEVATION DIFFERS SIGNIFICANTLY, CONTRACTOR SHALL NOTIFY THE ENGINEER PRIOR TO CONTINUING WORK.
3. SIDEWALKS SHALL BE CONSTRUCTED 3'-FT FROM THE BACK OF CURB FOR ALL LOCATIONS WHERE THE SIDEWALK IS SHOWN OFFSET. REFER TO STREET DETAIL SHEET FOR SIDEWALK AND RAMP DETAILS.
4. NO PERMANENT STRUCTURES HIGHER THAN 3 FEET, AND LOWER THAN 8 FEET, SHALL BE ALLOWED WITHIN THE STRUCTURE EASEMENT, FENCES, AND VEGETATION. SHALL BE CONSTRUCTED OR ALLOWED WITHIN THE CLEAR VISION EASEMENT. CONTRACTOR SHALL GIVE AREAS WITHIN CLEAR VISION EASEMENTS SUCH THAT THE ELEVATION WITHIN THE CLEAR VISION EASEMENT IS NOT HIGHER THAN 3 FEET ABOVE THE ADJACENT TOP OF PAVEMENT.
5. DRIVEWAYS SHOWN ON THIS PLAN ARE FOR THE SOLE PURPOSE OF INDICATING A POTENTIAL CONFLICT WITH CURB RAMP, DRAINAGE INFRASTRUCTURE, OR OTHER CONFLICT. DRIVEWAY LOCATION IS SUBJECT TO CHANGE BASED ON HOME SELECTION AND FINAL LOT DESIGN.
6. CHANGES IN THE SIDEWALK LOCATION FOR A MAXIMUM LINEAR DISTANCE OF TWO HUNDRED (200) FEET ARE PERMITTED TO BE APPROVED BY THE BEAR COUNTY INSPECTOR. THE SIDEWALK LOCATION ON THE STREET PLAN AND UTILITY LAYOUT PER UDC SECTION 356-506 (c)(6).



STREET LEGEND

PROJECT LIMITS	
MAINTAIN GUTTER	_____
EXISTING CONTOUR	----- 970 -----
WHEELCHAIR RAMP	① WCR
CENTERLINE	CL
RADIUS POINT	RP
POINT OF CURVATURE	PC
POINT OF TANGENCY	PT
RETURN	RET
DRAINAGE FLOW ARROW	➡
TOP OF CURB SPOT ELEVATION	[857.30]
PAVEMENT ELEVATION	857.00(P) ×
WASHOUT CROWN SECTION	
SIDEWALK (HOMEOWNER'S RESPONSIBILITY)	
SIDEWALK (DEVELOPER'S RESPONSIBILITY)	
DRIVEWAY	



- (A) 10' ELEC, GAS, TELE, & CATV EASEMENT
- (B) 4' SIDEWALK
- (C) 4' DEVELOPER SIDEWALK
- 25' SANITARY SEWER EASEMENT TO EXPIRE
(F) UPON INCORPORATION INTO PLATTED PUBLIC
STREET RIGHT OF WAY (1.127 ACRES,
OFF-LOT, PERMEABLE)
- 50'x20' DRAINAGE, ACCESS, SEWER AND
(G) UTILITY EASEMENT TO EXPIRE UPON
INCORPORATION INTO PUBLIC STREET RIGHT OF
WAY (OFF-LOT)
- (H) 5'x5' ADA PASSING SPACE
- (I) 18' PRIVATE DRAINAGE EASEMENT
- (J) 15' ELEC, GAS, TELE, & CATV EASEMENT
- (K) 5' WATER EASEMENT

THE CONSTRUCTION OF SIDEWALKS ADJACENT TO ALL 900 SERIES LOTS WILL BE THE RESPONSIBILITY OF THE DEVELOPER AS SHOWN ON THE OVERALL SIGNAGE PLAN (SHEET C3.00). REFER TO SHEET C3.00 FOR LOCATIONS OF SIDEWALK CONSTRUCTION WHERE SIDEWALKS ARE NOT SHOWN

FILL MATERIAL SHOULD BE NATIVE ON-SITE MATERIAL, FREE OF DELETERIOUS MATERIAL WITH A MINIMUM CBR VALUE OF 2.0 AND A MAX PLASTICITY INDEX VALUE OF 60. THE GRAVEL SIZE SHOULD NOT EXCEED 3 INCHES IN DIAMETER. LIME APPLICATION RATE SHOULD BE RE-EVALUATED FOR THE FILL MATERIAL. THE MATERIAL SHOULD BE PLACED AS PER APPLICABLE CITY OR COUNTY GUIDELINES.

WHEEL CHAIR RAMPS (WCR) TO BE CENTERED ON
STATION NOTED BELOW. ELEVATION SHOWN ARE TOP
OF CURB AND NOT GUTTER

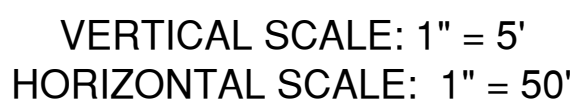
1. A BEXAR COUNTY PERMIT MUST BE OBTAINED BEFORE WORKING IN BEXAR COUNTY ROW. CONTRACTOR SHALL COORDINATE A TRAFFIC CONTROL PLAN FOR ALL WORK WITHIN THE ROW. ADDITIONAL WARNING SIGNS MAY BE RECOMMENDED BY THE ENGINEER ONCE THE ROADWAYS ARE CONSTRUCTED.

2. CONTRACTOR SHALL MATCH EXISTING PAVEMENT AT TIE-IN. IF EXISTING PAVEMENT ELEVATION DIFFERS SIGNIFICANTLY, CONTRACTOR SHALL NOTIFY THE ENGINEER PRIOR TO CONTINUING WORK.

3. SIDEWALKS SHALL BE CONSTRUCTED 3-FT FROM THE BACK OF CURB FOR ALL LOCATIONS WHERE THE SIDEWALK IS SHOWN OFFSET. REFER TO STREET DETAIL SHEET FOR SIDEWALK AND RAMP DETAILS.

4. NO PERMANENT STRUCTURES HIGHER THAN 3 FEET AND LOWER THAN 3 FEET ABOVE THE PAVEMENT, INCLUDING STRUCTURES, WALLS, FENCES, AND VEGETATION, SHALL BE CONSTRUCTED OR ALLOWED WITHIN THE CLEAR VISION EASEMENT. CONTRACTOR SHALL GRADE AREAS WITHIN CLEAR VISION EASEMENTS SUCH THAT THE ELEVATION WITHIN THE CLEAR VISION EASEMENT IS NOT HIGHER THAN 3 FEET ABOVE THE ADJACENT TOP OF PAVEMENT.

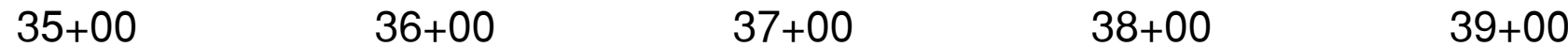
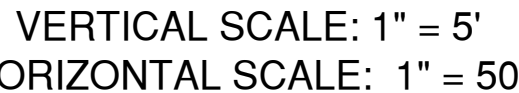
5. DRIVEWAYS SHOWN ON THIS PLAN ARE FOR THE SOLE PURPOSE OF INDICATING A POTENTIAL CONFLICT WITH CURB RAMP, DRAINAGE INFRASTRUCTURE, OR OTHER CONFLICT. DRIVEWAY LOCATION IS SUBJECT TO CHANGE BASED ON HOME SELECTION AND FINAL LOT DESIGN.
6. CHANGES IN THE SIDEWALK LOCATION FOR A MAXIMUM LINEAR DISTANCE OF TWO HUNDRED (200) FEET ARE PERMITTED TO BE APPROVED BY THE FIELD INSPECTOR WITHOUT AMENDING THE STREET PLAN OR UTILITY LAYOUT PER UDC SECTION 35-506 (Q)(6).



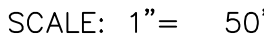
THIS DOCUMENT HAS BEEN PRODUCED FROM MATERIAL THAT WAS STORED AND/OR TRANSMITTED ELECTRONICALLY AND MAY HAVE BEEN INADVERTENTLY ALTERED. RELY ONLY ON FINAL HARD-COPY MATERIALS BEARING THE CONSULTANT'S ORIGINAL SIGNATURE AND SEAL. AFRICAL IMAGES PROVIDED BY GOOGLE/UNLESS OTHERWISE NOTED. Imasevery © 2016 CAPCO Digital Globe Teens Orthomemory Program. IISDA. From Service. Asesvany.

STONEHILL, UNIT-4A
SAN ANTONIO, TEXAS

PLAT NO. 24-11800201
JOB NO. 12456-16
DATE MAY 2024
DESIGNER CB
CHECKED BL DRAWN CB
SHEET C2.03



- (A) 10' ELEC, GAS, TELE, & CATV EASEMENT
- (B) 4' SIDEWALK
- (C) 4' DEVELOPER SIDEWALK
- (D) 25' SANITARY SEWER EASEMENT TO EXPIRE UPON INCORPORATION INTO PLATTED PUBLIC STREET RIGHT-OF-WAY (1.127 ACRES, OFF-LOT, PERMEABLE)
- (E) 50'x20' DRAINAGE, ACCESS, SEWER AND UTILITY EASEMENT TO EXPIRE UPON INCORPORATION INTO PLATTED PUBLIC STREET RIGHT-OF-WAY (0.089 OF AN ACRE (COMBINED), OFF-LOT, PERMEABLE)
- (F) 5'X5' ADA PASSING SPACE
- (G) 18' PRIVATE DRAINAGE EASEMENT
- (H) 15' ELEC, GAS, TELE, & CATV EASEMENT
- (I) 5' WATER EASEMENT



PROJECT LIMITS	
MAINTAIN GUTTER	
EXISTING CONTOUR	970
WHEELCHAIR RAMP	Ⓐ WCR
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) x
WASHOUT CROWN SECTION	
SIDEWALK (HOMEOWNER'S RESPONSIBILITY)	
SIDEWALK (DEVELOPER'S RESPONSIBILITY)	
DRIVEWAY	

THE CONSTRUCTION OF SIDEWALKS ADJACENT TO ALL 900 SERIES LOTS WILL BE THE RESPONSIBILITY OF THE DEVELOPER AS SHOWN ON THE OVERALL SIGNAGE PLAN (SHEET C3.00). REFER TO SHEET C3.00 FOR LOCATIONS OF SIDEWALK CONSTRUCTION WHERE SIDEWALKS ARE NOT SHOWN

FILL MATERIAL SHOULD BE NATIVE ON-SITE MATERIAL, FREE OF DELETERIOUS MATERIAL WITH A MINIMUM CBR VALUE OF 2.0 AND A MAX PLASTICITY INDEX VALUE OF 60. THE GRAVEL SIZE SHOULD NOT EXCEED 3 INCHES IN DIAMETER. LIME APPLICATION RATE SHOULD BE RE-EVALUATED FOR THE FILL MATERIAL. THE MATERIAL SHOULD BE PLACED AS PER APPLICABLE CITY OR COUNTY GUIDELINES.

WHEEL CHAIR RAMPS (WCR) TO BE CENTERED ON
STATION NOTED BELOW. ELEVATION SHOWN ARE TOP
OF CURB AND NOT GUTTER

1. A BEAR COUNTY PERMIT MUST BE OBTAINED BEFORE WORKING IN BEAR COUNTY ROW. CONTRACTOR SHALL COORDINATE TRAFFIC CONTROL PLAN FOR ANY WORK WITHIN THE ROW. ADDITIONAL WARNING SIGNS MAY BE RECOMMENDED BY THE ENGINEER ONCE THE ROADWAYS ARE CONSTRUCTED.
2. CONTRACTOR SHALL MATCH EXISTING PAVEMENT AT TIE-IN. IF EXISTING PAVEMENT ELEVATION IS NOT KNOWN, CONTRACTOR SHALL NOTIFY THE ENGINEER PRIOR TO CONTINUING WORK.
3. SIDEWALKS SHALL BE CONSTRUCTED 3'-FT FROM THE BACK OF CURB FOR ALL LOCATIONS WHERE THE SIDEWALK IS SHOWN OFFSET. REFER TO STANDARD DETAIL SHEET FOR SIDEWALK AND RAMP DETAILS.
4. NO PERMANENT STRUCTURES HIGHER THAN 3 FEET, AND LOWER THAN 8 FEET ABOVE THE PAVEMENT, INCLUDING STRUCTURES, WALLS, FENCES, AND VEGETATION, SHALL BE CONSTRUCTED OR MAINTAINED WITHIN THE CLEAR VISION EASEMENT. CONTRACTOR SHALL GRADE AREAS WITHIN CLEAR VISION EASEMENTS SUCH THAT THE ELEVATION WITHIN THE CLEAR VISION EASEMENT IS NO HIGHER THAN 8 FEET ABOVE THE ADJACENT TOP OF PAVEMENT.
5. DRIVEWAYS SHOWN ON THIS PLAN ARE FOR THE SOLE PURPOSE OF INDICATING A POTENTIAL CONFLICT WITH CURB RAMP, DRAINAGE INFRASTRUCTURE, OR OTHER COMPLICATED DRIVEWAY. LOCATION IS SUBJECT TO CHANGE BASED ON HOME SELECTION AND FINAL LOT DESIGN.
6. CHANGES IN THE SIDEWALK LOCATION FOR A MAXIMUM LINEAR DISTANCE OF TWO HUNDRED (200) FEET ARE PERMITTED TO BE APPROVED BY THE FIELD INSPECTOR WITHOUT AMENDING THE PLAN. AN ANNUAL UTILITY LAYOUT PER UDC SECTION 35-506 (Q)(6) IS REQUIRED.

PAVEMENT SECTION DETAIL									
STREET NAME	STATION	REINFORCED CONCRETE	TYPE "D" HMAC	TYPE "C" HMAC	CRUSHED LIMESTONE BASE	STABILIZED SUBGRADE	GEOGRID (TENSAR TRIAX TX5)	CBR	STRUCTURAL NUMBER
GRAYSON MILLS (LOCAL B)	1+92.36 TO 4+53.00	—	1.5"	2.5"	18.5"	8"	NO	2.0	4.99
GRAYSON MILLS (LOCAL A)	4+53.00 TO END	—	2"	—	10"	8"	NO	2.0	2.92
LAMB RIVER	11+98.81 TO END	—	2"	—	10"	8"	NO	2.0	2.92
WCHITA ROCK	1+34.07 TO END	—	2"	—	10"	8"	NO	2.0	2.92
KNOX HOOD PASS	1+40.00 TO END	—	2"	—	10"	8"	NO	2.0	2.92
HANSFORD POINT	35+50.15 TO END	—	2"	—	10"	8"	NO	2.0	2.92

GENERAL NOTES:

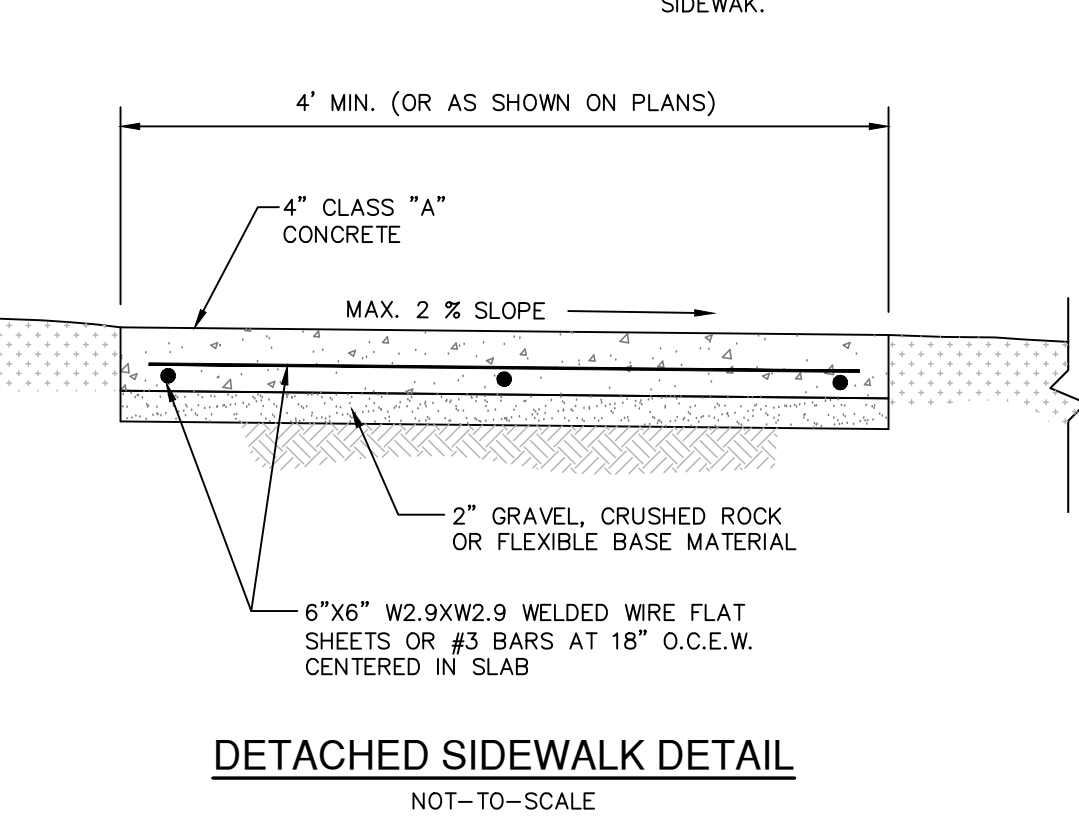
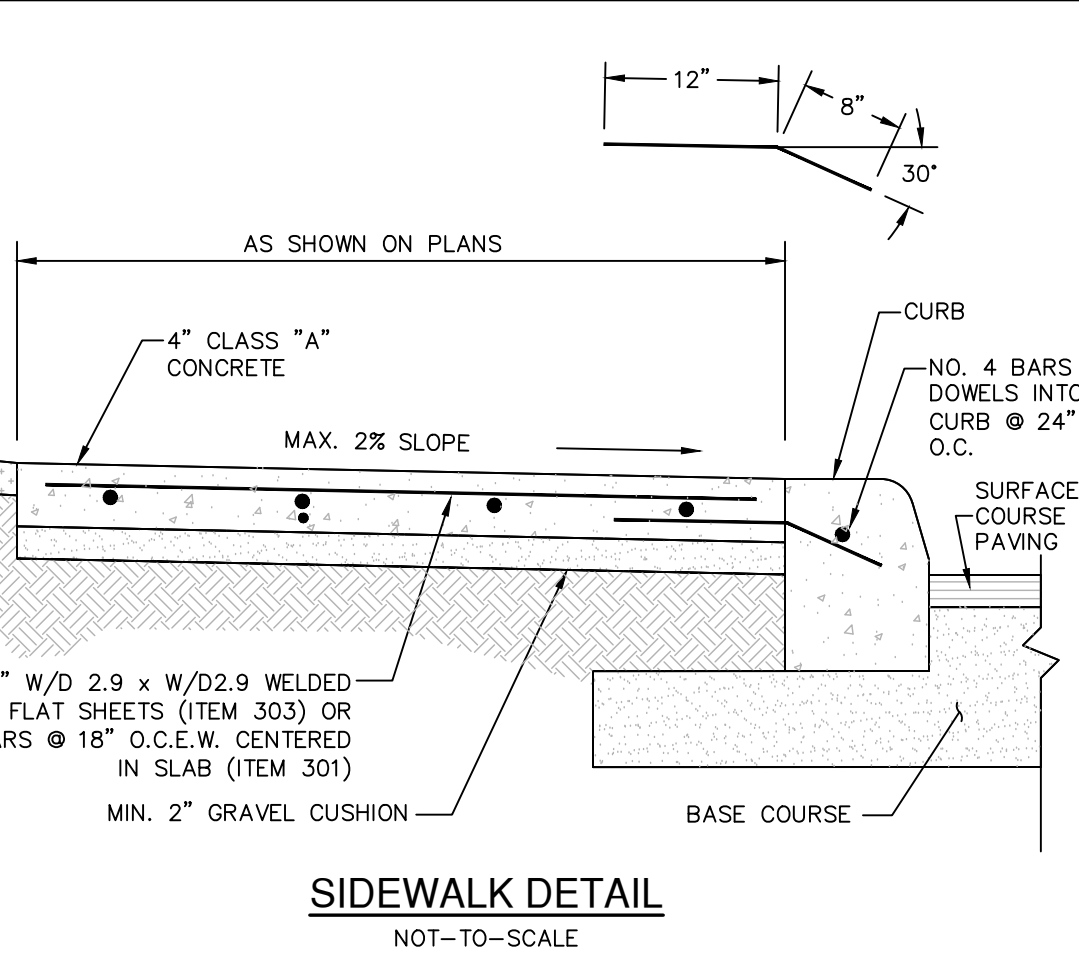
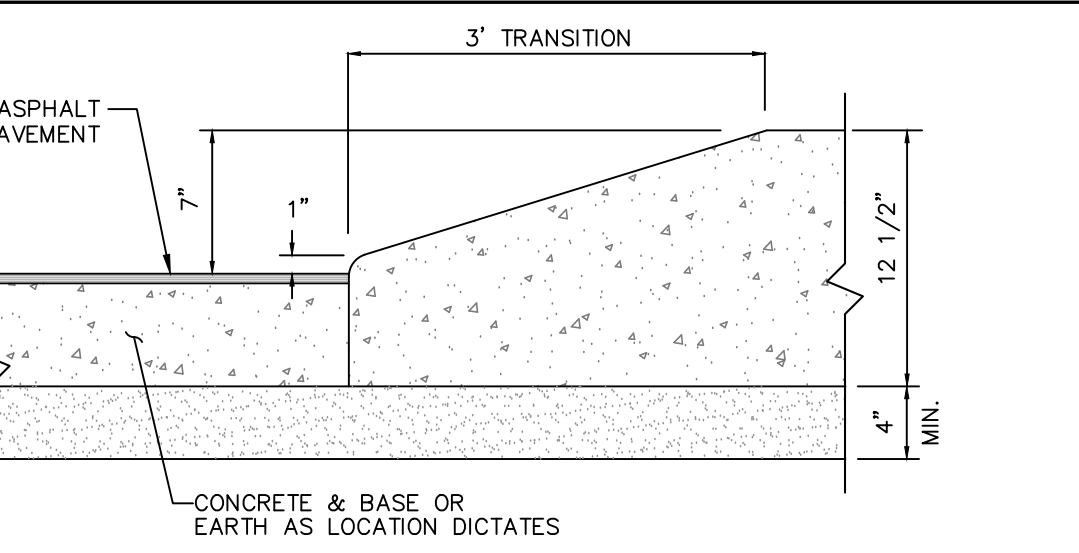
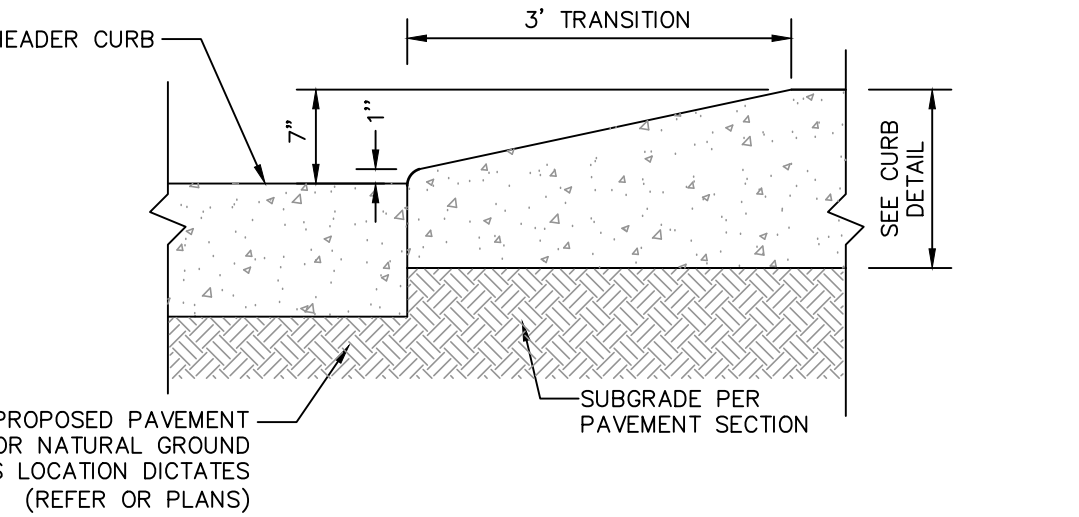
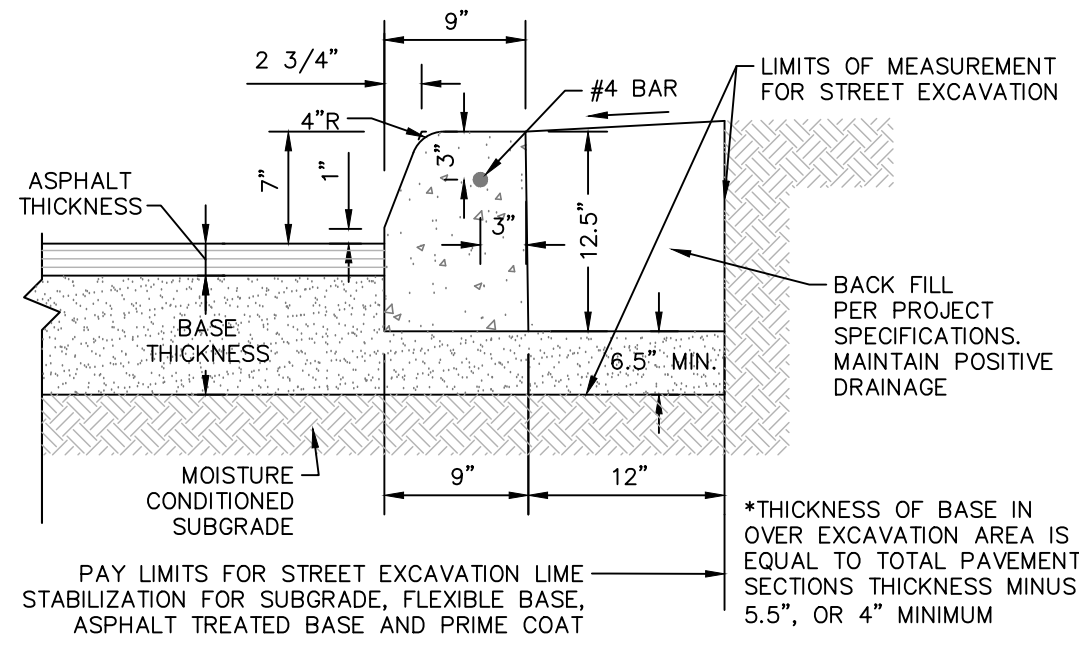
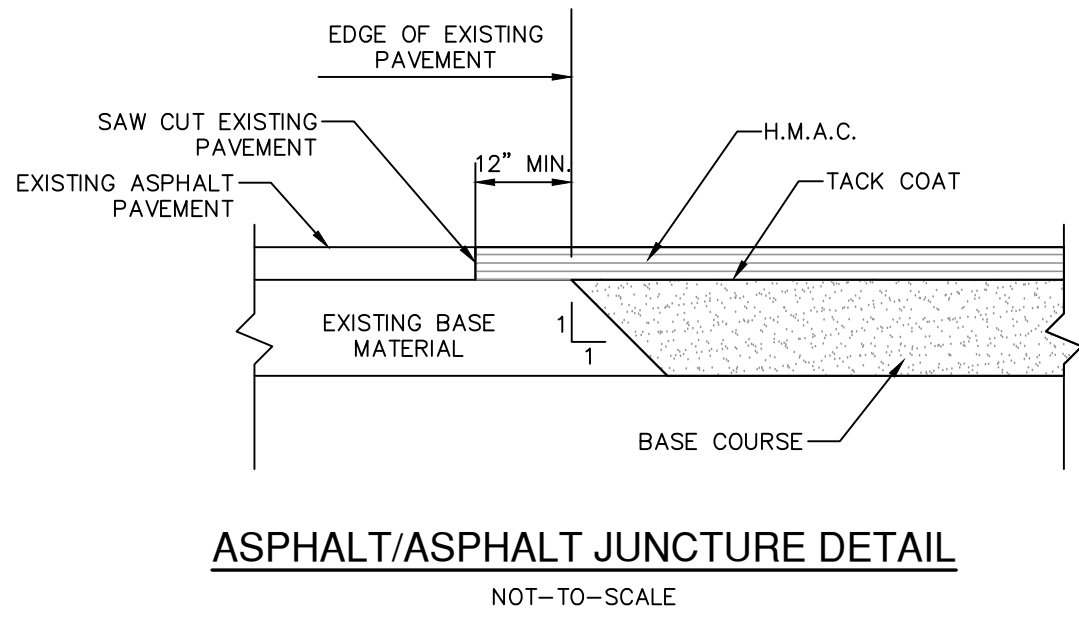
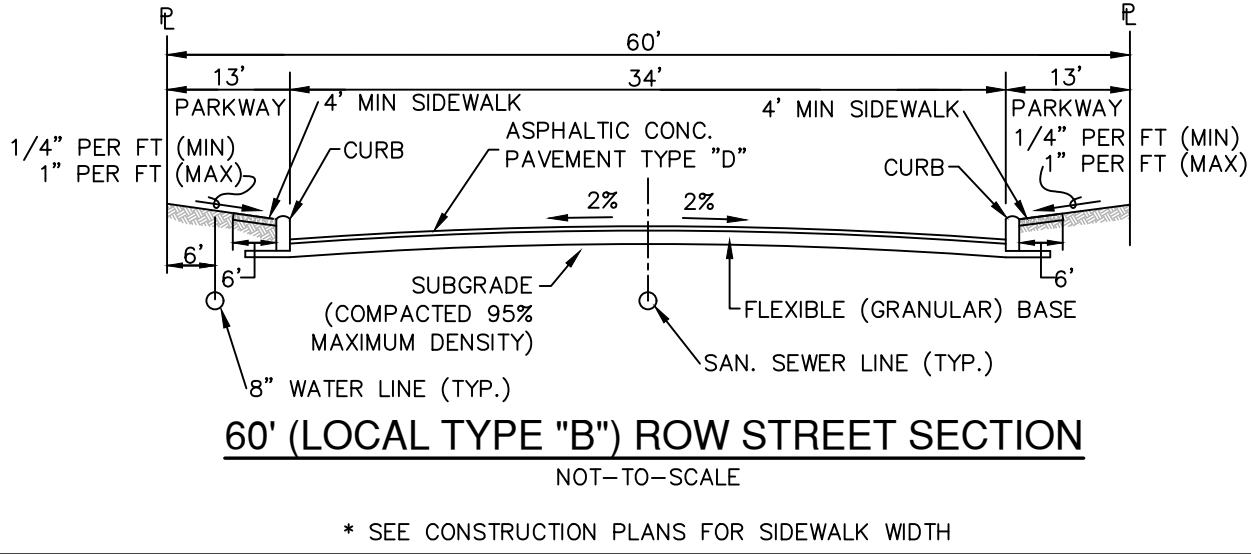
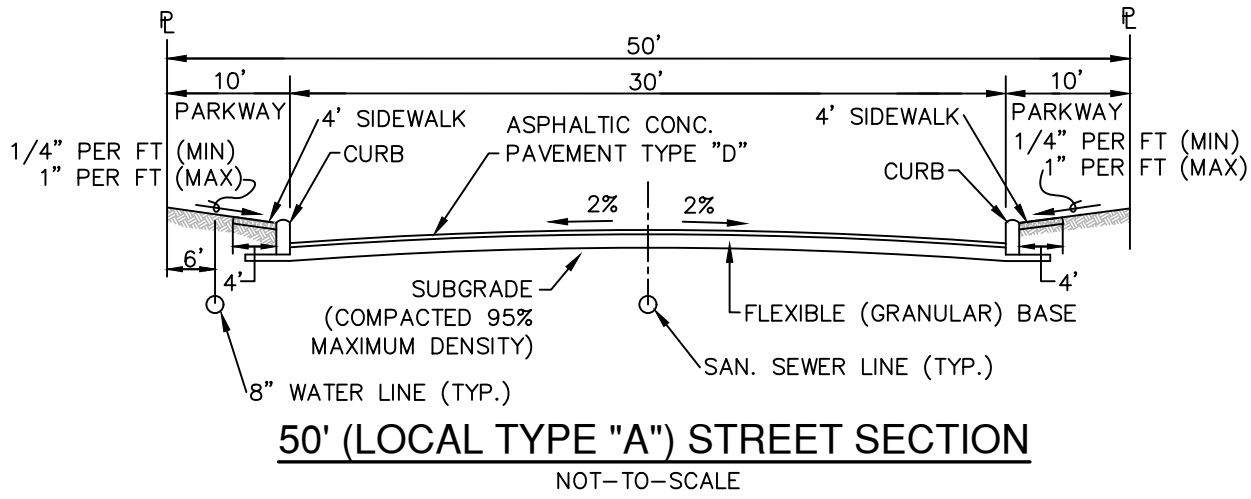
- CONTRACTOR SHALL REFERENCE THE PROJECT PAVEMENT DESIGN REPORTS PREPARED BY INTEC DATED 01/31/2024 (INTEC PROJECT# S231361) **Subsurface Exploration and Pavement Analysis, Proposed New Streets, Stonehill, Units 2B, 4A, 6A, 6B, 8, 9.**
- CONTRACTOR SHALL RETAIN A GEOTECHNICAL ENGINEER TO VERIFY THE SUB GRADE CONDITION PRIOR TO PLACING ANY BASE MATERIAL. GEOTECHNICAL ENGINEER SHALL DETERMINE THE SUB GRADE CONDITION AND IF LIME STABILIZATION IS REQUIRED.
- GEOTECHNICAL ENGINEER SHOULD VERIFY THE STREET SUBGRADE AT THE TIME OF CONSTRUCTION PRIOR TO PLACEMENT OF AGGREGATE BASE.
- THE FLEXIBLE BASE COURSE SHOULD BE CRUSHED LIMESTONE CONFORMING TO TXDOT STANDARD SPECIFICATIONS, ITEM 247, TYPE A, GRADES 1 OR 2.
- THE MOISTURE CONTENT OF THE FILL SHOULD BE MAINTAINED WITHIN THE RANGE OF OPTIMUM WATER CONTENT TO 3 PERCENTAGE POINTS ABOVE THE OPTIMUM WATER CONTENT UNTIL PERMANENTLY COVERED.
- IN THE EVENT THAT THE CLAY FILL USED IS DIFFERENT THAN THE EXISTING SUBGRADE, THE RECOMMENDATIONS IN THE GEOTECHNICAL REPORT COULD BE INVALIDATED AND THE DESIGN ENGINEER MUST BE CONSULTED TO DETERMINE IF ADDITIONAL CBR TESTING AND THICKER PAVEMENT SECTIONS ARE REQUIRED.
- WHERE PAVEMENT SUBGRADE IS LOCATED WITHIN 2- FEET OF THE EXISTING GROUND SURFACE (STRATUM 1 CLAYS), MOISTURE CONDITIONED SUBGRADE WILL BE REQUIRED. GEOTECHNICAL ENGINEER SHOULD VERIFY THE STREET SUBGRADE AT THE TIME OF CONSTRUCTION PRIOR TO PLACEMENT OF AGGREGATE BASE TO DETERMINE WHERE THE MOISTURE CONDITIONED SUBGRADE IS NEEDED. REFERENCE GEOTECHNICAL ENGINEERING REPORT FOR MORE INFORMATION.
- THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING ALL MATERIAL TESTING WITH THE PROJECT GEOTECHNICAL ENGINEER. TESTING SHALL BE PAID FOR BY THE OWNER.
- FILL MATERIAL SHOULD BE NATIVE ON-SITE MATERIAL, FREE OF DELETERIOUS MATERIAL WITH A MINIMUM CBR VALUE OF 2 AND A PI WITHIN RANGE OF 5 AND 60. THE GRAVEL SIZE SHOULD NOT EXCEED 3 INCHES IN DIAMETER. 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 VERIFY EXACT SPECIFICATIONS WITH PROJECT GEOTECHNICAL ENGINEERING REPORT.
- A BEXAR COUNTY PERMIT MUST BE OBTAINED BEFORE WORKING IN THE 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.

STREET SUBGRADE NOTES:

- CUT AND FILL DATA ARE NOT AVAILABLE AT THIS TIME
- FILL USED TO RAISE THE GRADE:
 - APPROVED FILL MATERIAL FREE SHOULD HAVE A MINIMUM CBR VALUE OF 2.0 AND A MAXIMUM PLASTICITY INDEX VALUE OF 60 (ON SITE MATERIAL). LIME APPLICATION RATES SHOULD BE RE-EVALUATED AND TESTED FOR SULFATE CONTENT PRIOR TO USE OF THE FILL MATERIAL.
 - THE FILL MATERIAL SHOULD BE APPROVED BY THE GEOTECHNICAL ENGINEER, FREE OF DELETERIOUS MATERIAL, AND THE GRAVEL SIZE SHOULD NOT EXCEED 3 INCHES IN SIZE. THE MATERIAL SHOULD BE PLACED AND COMPACTED AS PER APPLICABLE CITY / COUNTY GUIDELINES.
 - THE SUBGRADE, PRIOR TO PLACEMENT OF FILL, SHOULD BE PROOF ROLLED TO IDENTIFY WEAK AREAS. ANY IDENTIFIED WEAK AREAS SHOULD BE RECOMPACTED.
- BASED ON THE THICKNESS OF THE CLAYS ENCOUNTERED IN THE BORINGS, WE ANTICIPATE THE FINAL PAVEMENT SUBGRADE PLASTICITY INDEX VALUE TO BE GREATER THAN 20. AS PER BEXAR COUNTY/CITY OF SAN ANTONIO REQUIREMENTS, SUBGRADE STABILIZATION IS NEEDED WHEN THE PLASTICITY INDEX VALUES ARE GREATER THAN 20.
- IF THE SUBGRADE PLASTICITY INDEX VALUES ARE LESS THAN OR EQUAL TO 20, AS PER CITY OF SAN ANTONIO OR BEXAR COUNTY REQUIREMENTS, SUBGRADE STABILIZATION IS NOT NEEDED.
- IF THE FINAL STREET SUBGRADE PLASTICITY INDEX VALUES ARE GREATER THAN 20, THEN THE SUBGRADE SHOULD BE STABILIZED.
 - STABILIZE THE SUBGRADE:
 - STABILIZED TO A DEPTH OF 8 INCHES USING 8 PERCENT LIME CONTENT.
 - THE SUBGRADE SOILS SHOULD BE TESTED FOR SOIL SULFATE CONTENT PRIOR TO STABILIZATION. IF THE SOIL SULFATE CONTENT IS HIGHER THAN 3000 PPM, AN ALTERNATE PROCEDURE WILL BE NEEDED.
 - LIME APPLICATION RATE OF 45.5 LBS PER SQ YARD FOR 8-INCH DEPTH OF STABILIZATION IS RECOMMENDED.

LIME NOTES:

- FOR LIME STABILIZATION CONSTRUCTION VERIFICATION THE FOLLOWING SHALL BE CONDUCTED ON THE FIELD:
- AFTER INITIAL MIXING THE SOIL-LIME MIXTURE SHALL MELLOW FOR A PERIOD OF TWO TO THREE (2-3) DAYS. MAINTAIN MOISTURE DURING MELLOWING.
 - AFTER MELLOWING AND FINAL MIXING, THE PULVERIZATION SHALL BE CHECKED USING THE FOLLOWING CRITERIA (REMOVE NON-SLAKING AGGREGATES RETAINED ON THE 3/8 INCH SIEVE FROM THE SAMPLE):
 - MINIMUM PASSING 1/2" SIEVE 100
 - MINIMUM PASSING 3/8" SIEVE 85
 - MINIMUM PASSING NO. 4 SIEVE 60
 - SAMPLE SOIL-LIME MIXTURE FOR DETERMINATION OF MAXIMUM DRY DENSITY (MDD), IN THE LABORATORY. MOLD SPECIMENS TO 95% OF MDD AT OPTIMUM MOISTURE CONTENT AND VERIFY UCS TO BE AT LEAST 160 PSI IN ACCORDANCE WITH PROCEDURE OUTLINED IN THE BEXAR COUNTY FLEXIBLE PAVEMENT DESIGN CRITERIA GUIDE FOR MIXTURE DESIGN.
 - COMPACT AND CHECK FIELD DENSITY (MINIMUM OF 95% OF MDD REQUIRED).
 - CURE FOR AN ADDITIONAL 2 TO 5 DAYS (TOTAL MELLOWING AND CURING TIME SHOULD TOTAL AT LEAST 5 DAYS).
 - VERIFY DEPTH OF LIME STABILIZED LAYER TO DEPTH AS NOTED ON PLAN TO WITHIN +/- 1.0 INCH.



DATE

NO. REVISION

STATE OF TEXAS
CALEB M. CHANCE
98401
LICENSED PROFESSIONAL ENGINEER
12/20/24

PAPE-DAWSON
ENGINEERS

2000 NW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000
TEXAS ENGINEERING FIRM #470 | TEXAS SURVEYING FIRM #10028600

STONEHILL, UNIT-4A
SAN ANTONIO, TEXAS

STREET DETAILS

PLAT NO. 24-11800201

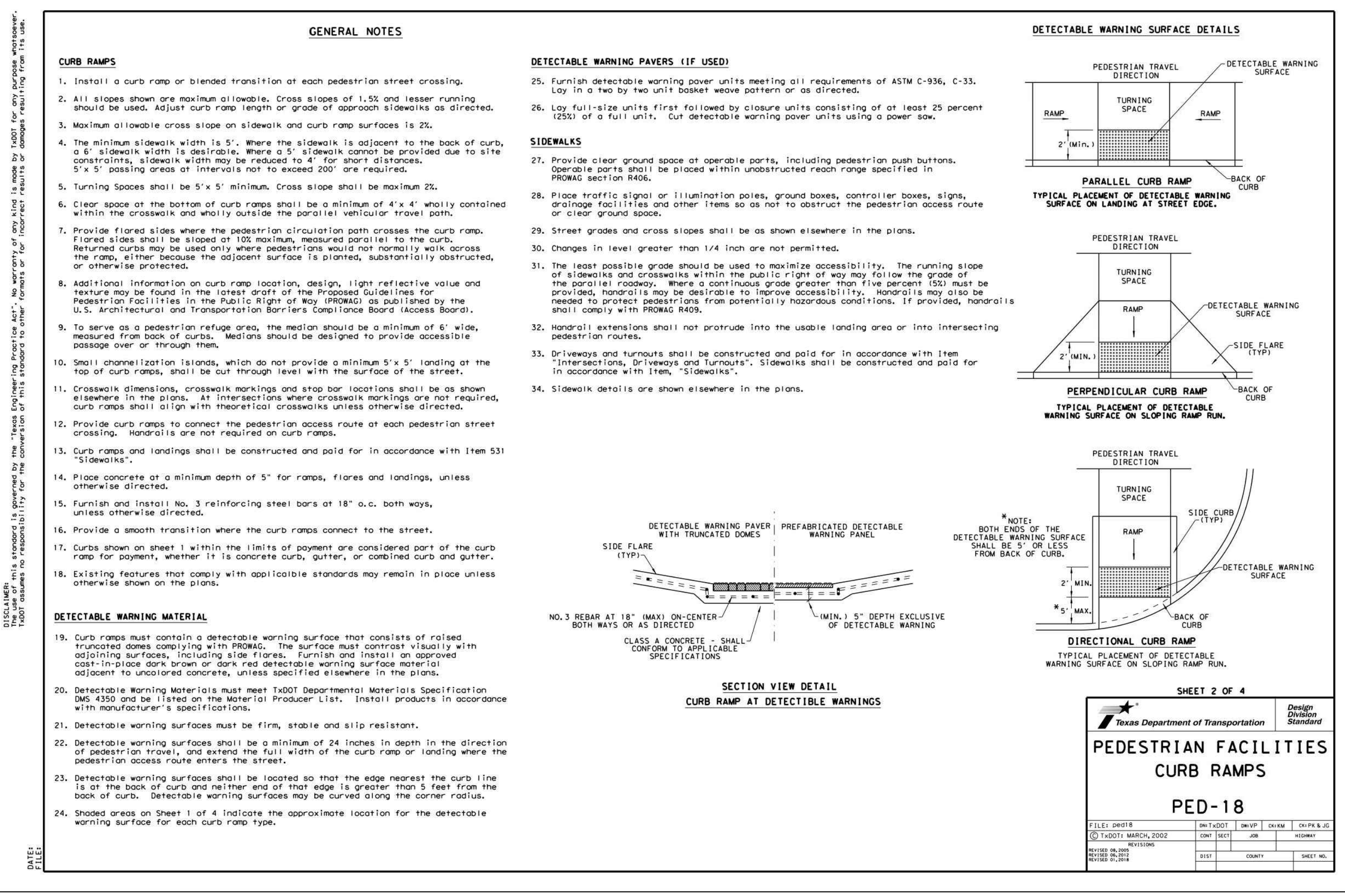
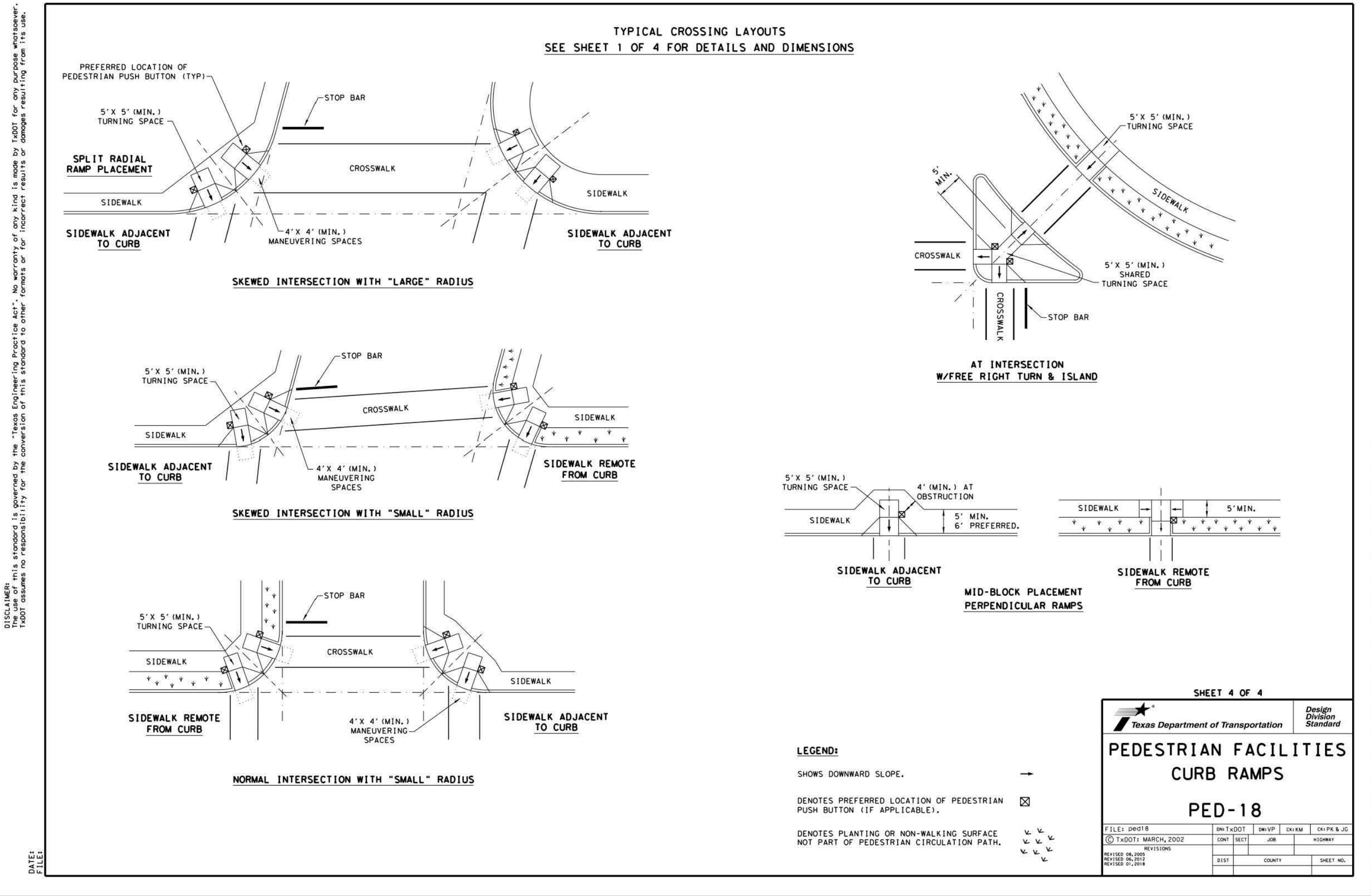
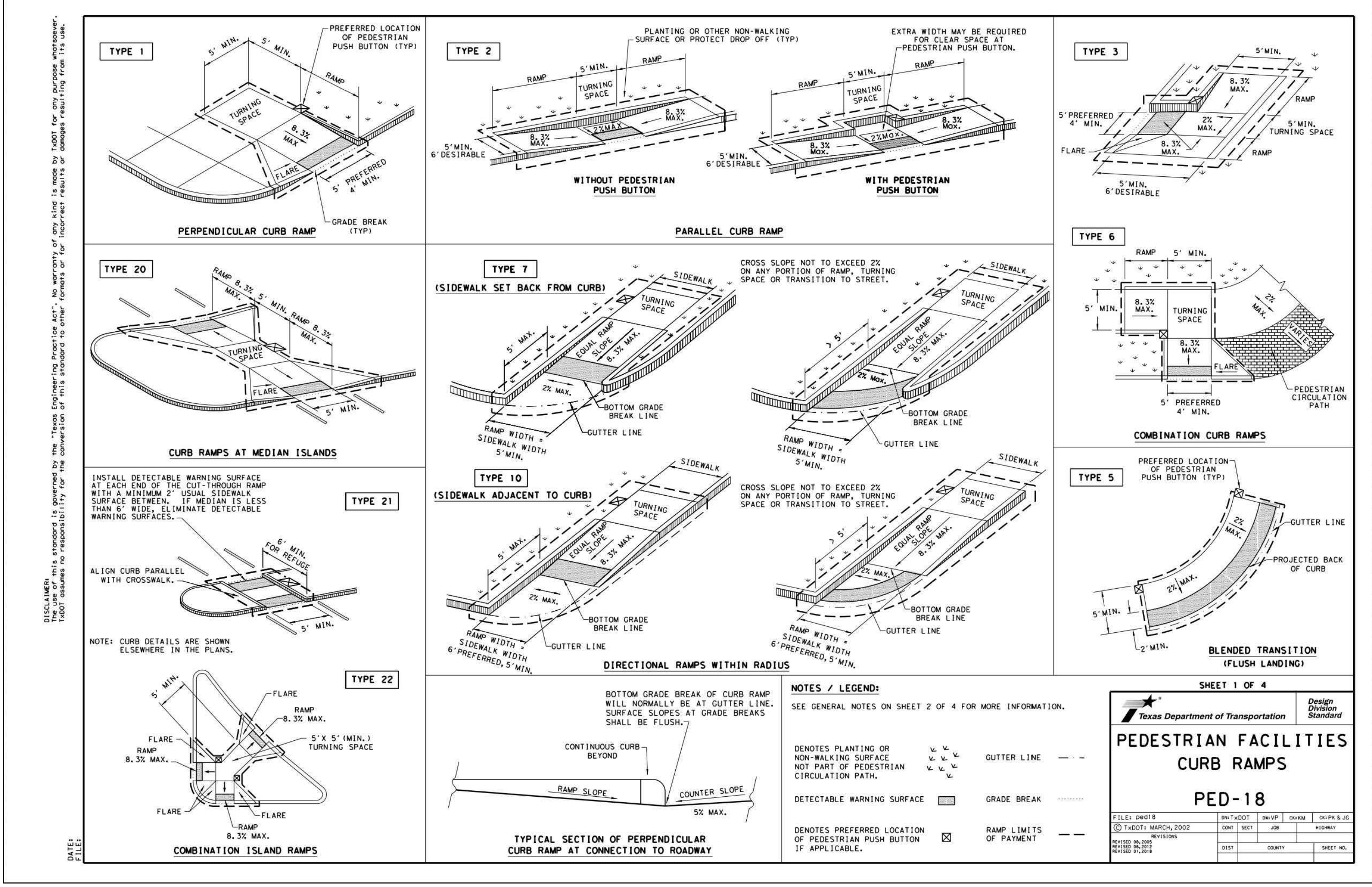
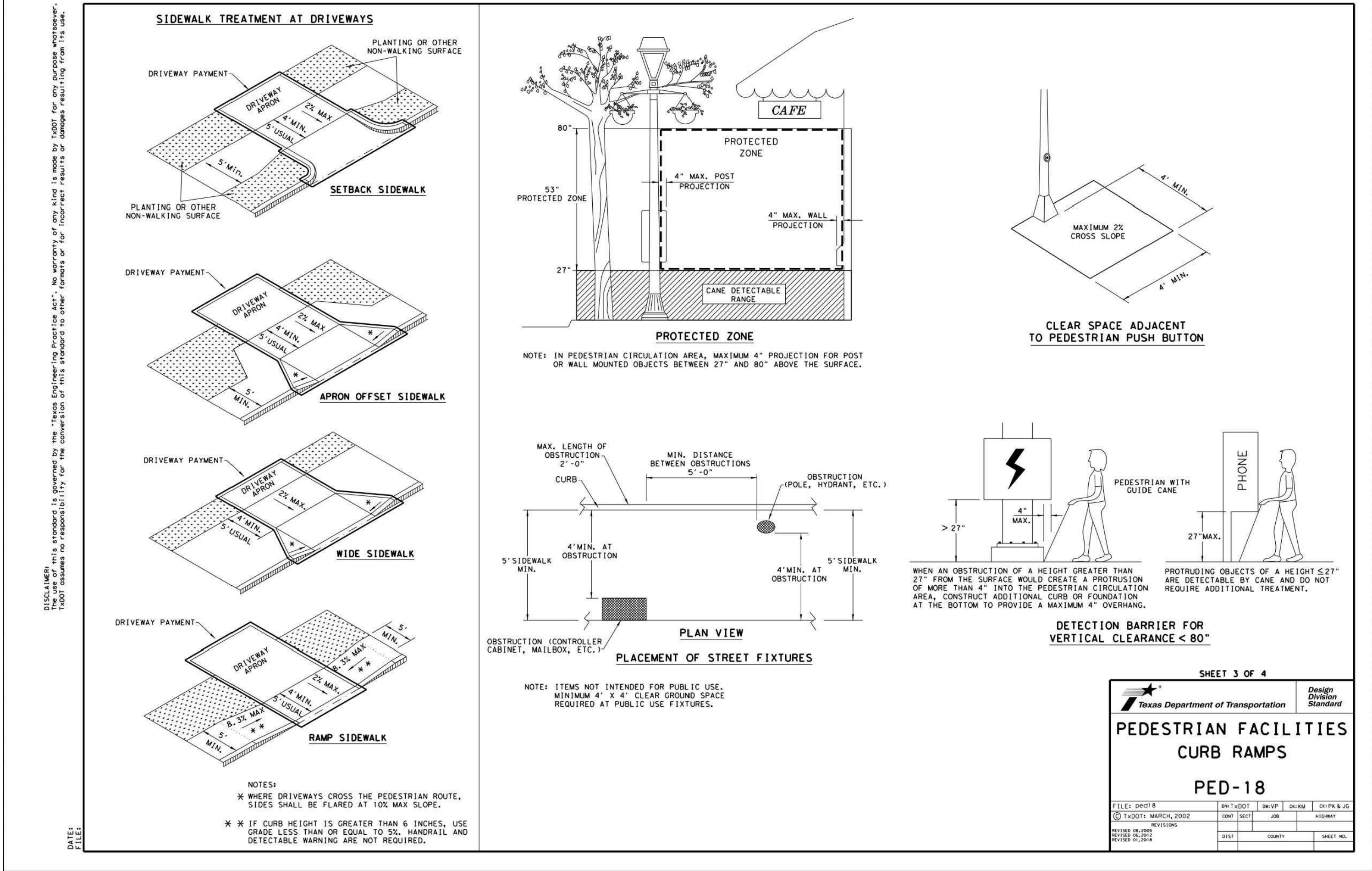
JOB NO. 12456-16

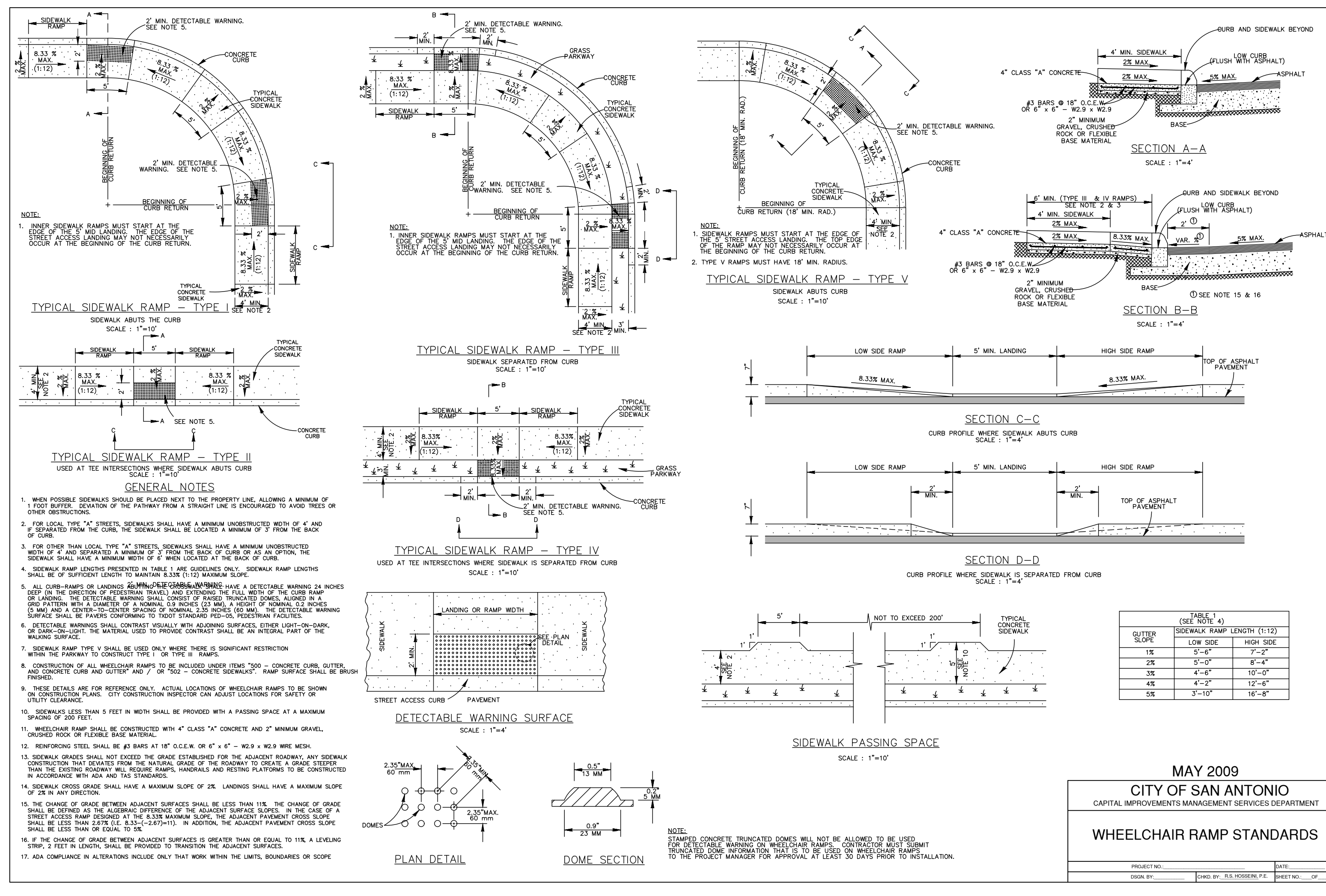
DATE MAY 2024

DESIGNER CB

CHECKED BL DRAWN CB

SHEET C2.10





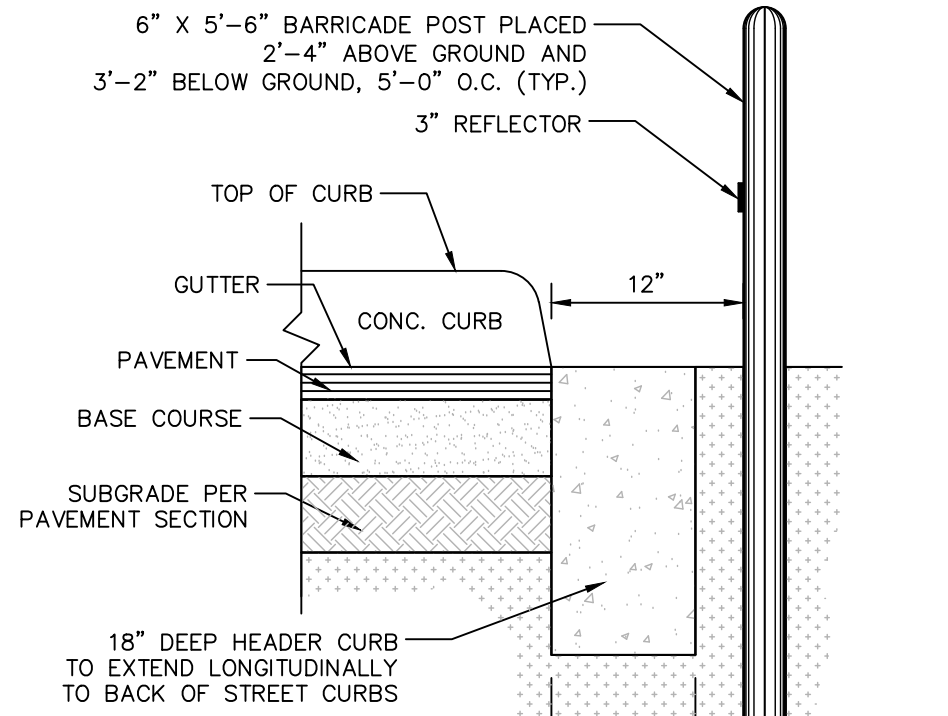
Date: December 19, 2024, 11:03 AM - User ID: rdhanez
File: P:\12415616\Design\Civil\SSGA-1245616.dwg

THIS 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, CAPCOOL Digital Globe, Texas Orthomography Program, USDA Farm Service Agency.

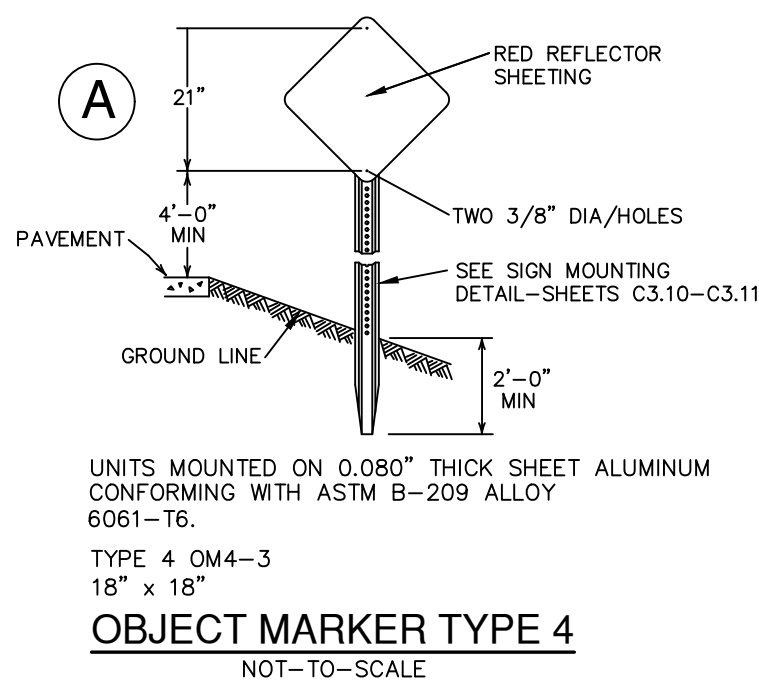
SYMBOL	ITEM NUMBER
	UNIT BOUNDARY
	TRAFFIC FLOW ARROW
	SIDEWALK (HOMEBUILDER RESPONSIBILITY)
	SIDEWALK (SITWORK CONTRACTOR RESPONSIBILITY)
	PROPOSED DRIVEWAY
	TYPE II BLUE RAISED PAVEMENT MARKERS NO SEPARATE PAY ITEM (N.T.S.)
	END OF ROAD MARKER OM4-3
	HEADER CURB W/ BARRICADE POSTS
	STREET SIGN 9"x24"
	R1-1 30"x30"
	5'x5' ADA PASSING SPACE (DEVELOPER'S RESPONSIBILITY)
	5'x5' ADA PASSING SPACE (HOMEOWNER'S RESPONSIBILITY)

KEY LEGEND:

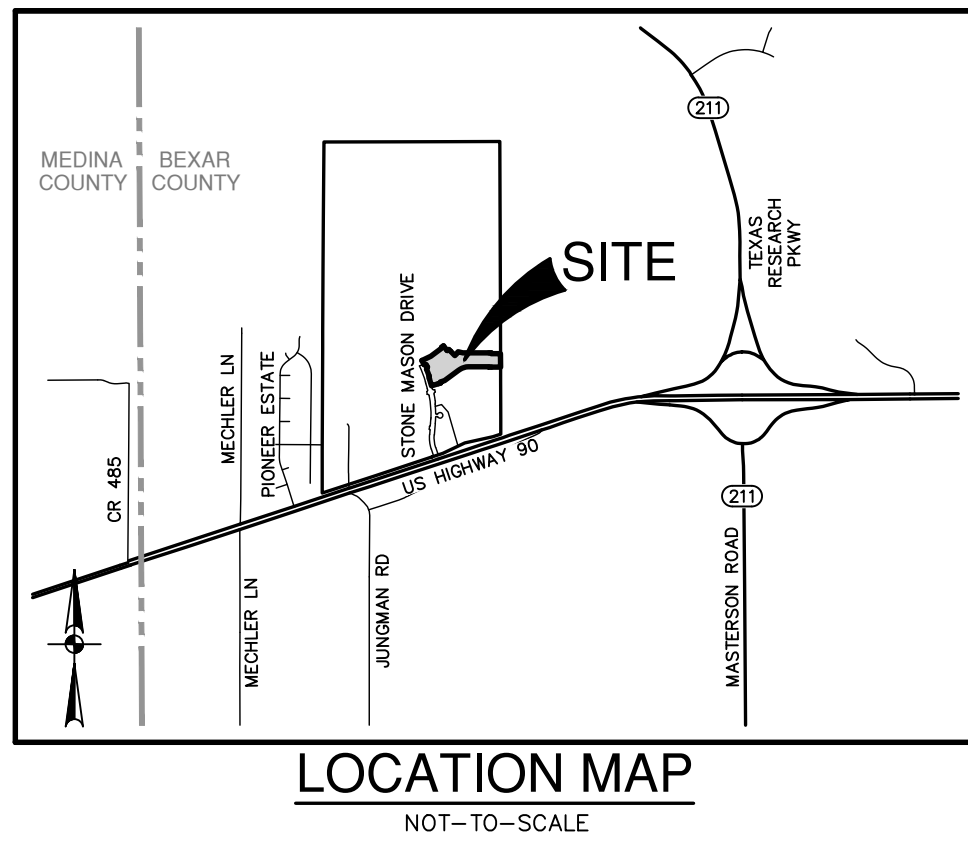
- (A) 10' ELEC. GAS, TELE, & CATV EASEMENT
(B) 4' SIDEWALK
(D) 6' SIDEWALK
(F) 25' SANITARY SEWER EASEMENT TO EXPIRE UPON INCORPORATION INTO PLATTED PUBLIC STREET RIGHT-OF-WAY AND 900 LOTS.(OFF-LOT)
(G) 50'x20' DRAINAGE, ACCESS, SEWER AND UTILITY EASEMENT TO EXPIRE UPON INCORPORATION INTO PLATTED PUBLIC STREET RIGHT-OF-WAY (0.092 OF AN ACRE (COMBINED), OFF-LOT, PERMEABLE)
(I) 18' PRIVATE DRAINAGE EASEMENT
(J) 15' ELEC. GAS, TELE, & CATV EASEMENT
(K) 5' WATER EASEMENT
(L) 70' x 293' DRAINAGE EASEMENT (OFF-LOT, PERMEABLE)
(M) 1' VEHICLE NON-ACCESS EASEMENT
(N) 50'x20' DRAINAGE, ACCESS, SEWER AND UTILITY EASEMENT TO EXPIRE UPON INCORPORATION INTO PLATTED PUBLIC STREET RIGHT-OF-WAY (0.092 OF AN ACRE (COMBINED), OFF-LOT, PERMEABLE)
(O) 10' RIGHT-OF-WAY DEDICATION EASEMENT



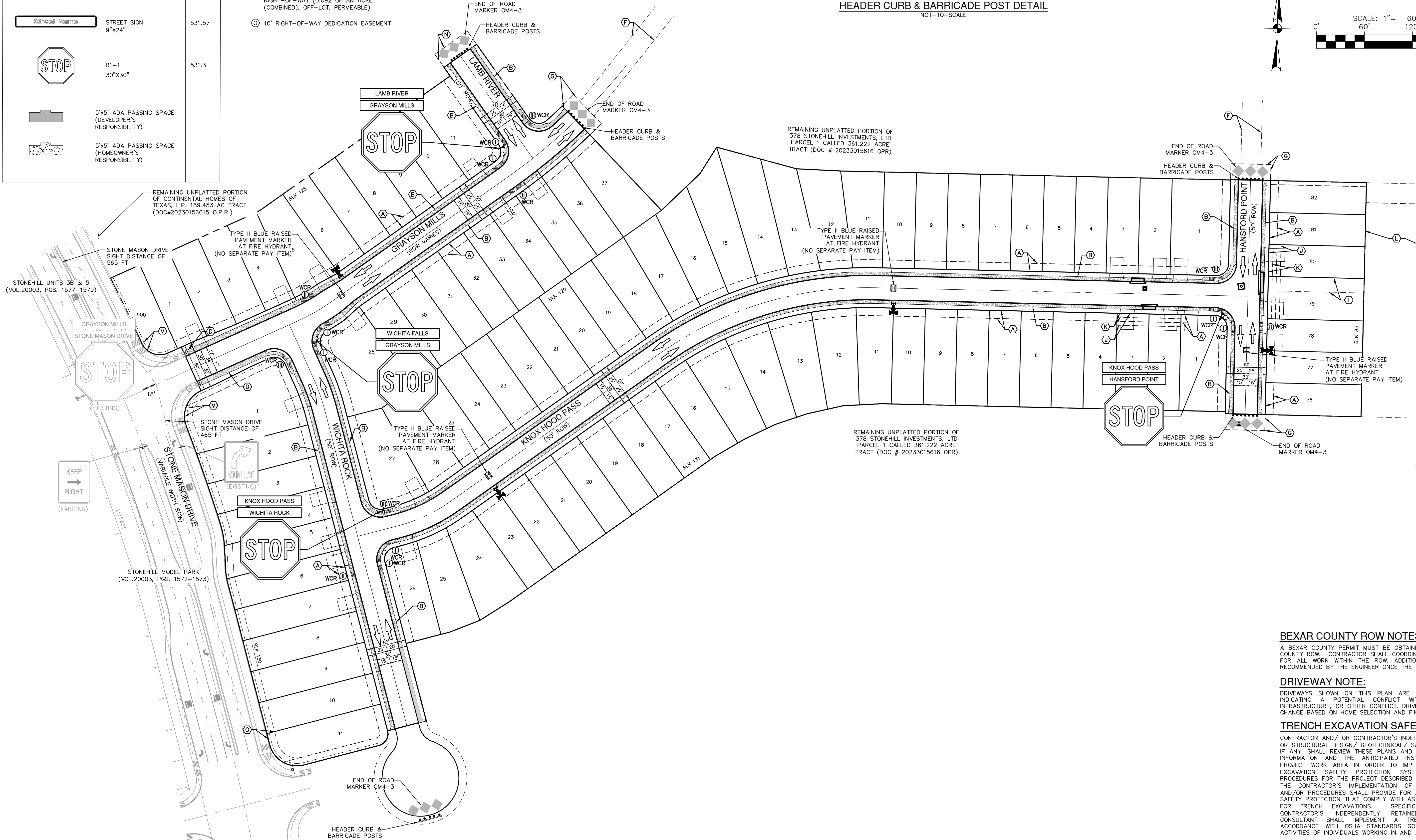
HEADER CURB & BARRICADE POST DETAIL
NOT-TO-SCALE



OBJECT MARKER TYPE 4
NOT-TO-SCALE



LOCATION MAP
NOT-TO-SCALE



BEXAR COUNTY ROW NOTES:

A BEXAR COUNTY 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.

DRIVEWAY NOTE:

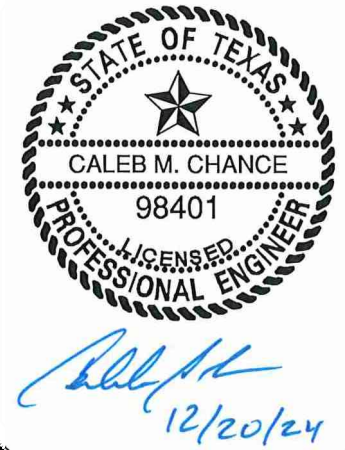
DRIVEWAYS SHOWN ON THIS PLAN ARE FOR THE SOLE PURPOSE OF INDICATING A POTENTIAL CONFLICT WITH CURB RAMP, DRAINAGE INFRASTRUCTURE, OR OTHER CONFLICT. DRIVEWAY LOCATION IS SUBJECT TO CHANGE BASED ON HOME SELECTION AND FINAL LOT DESIGN.

TRENCH EXCAVATION SAFETY PROTECTION:

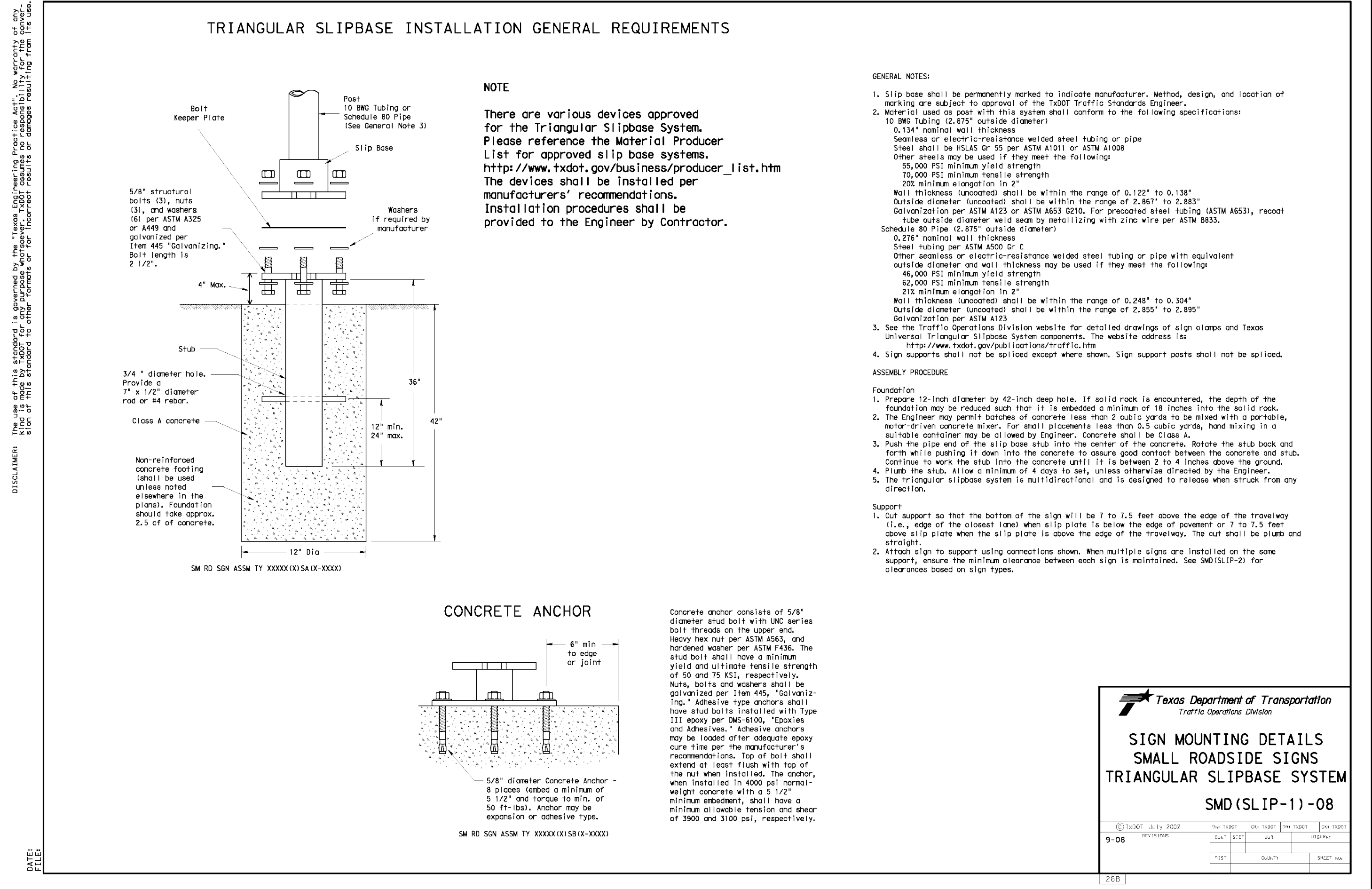
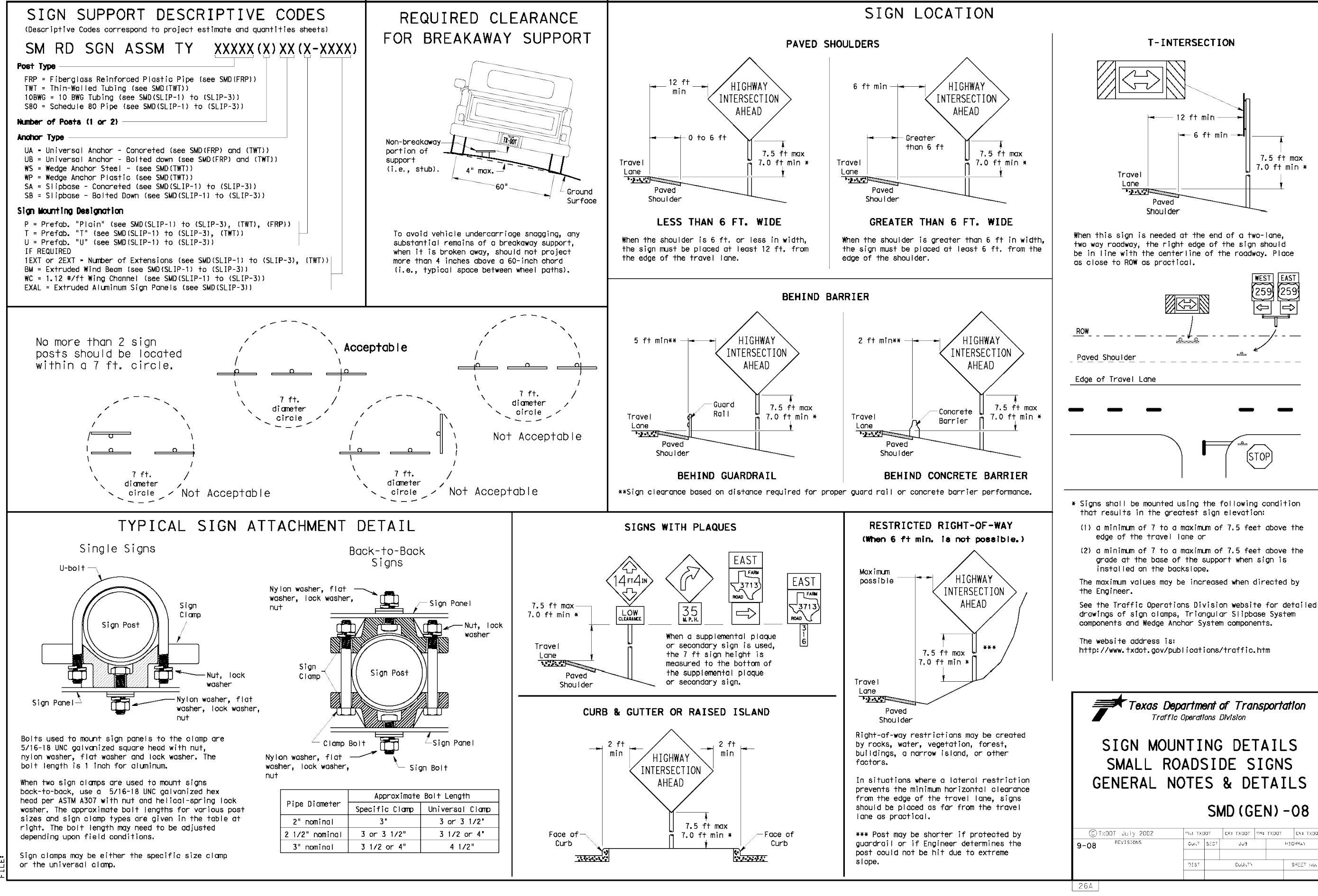
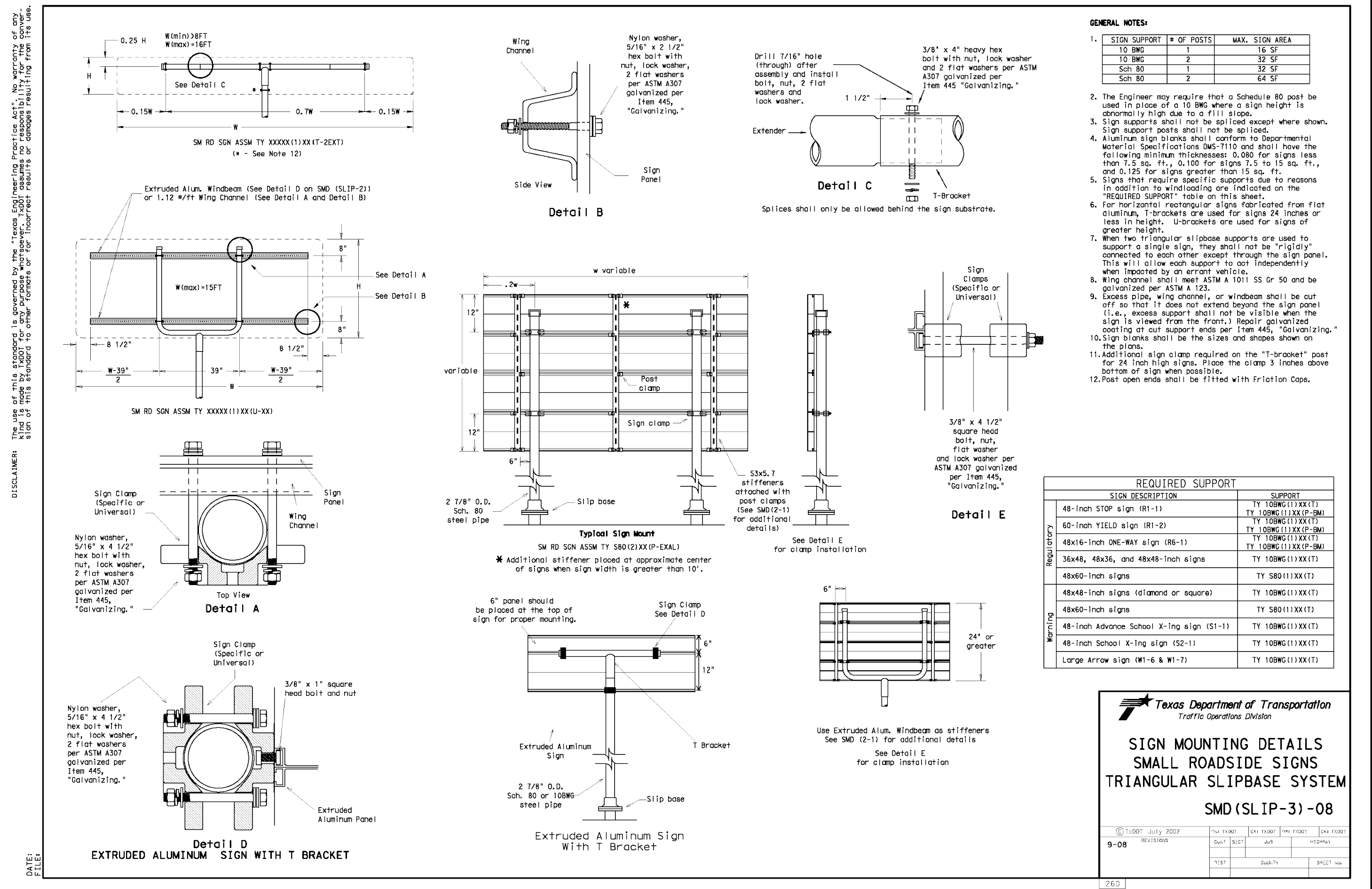
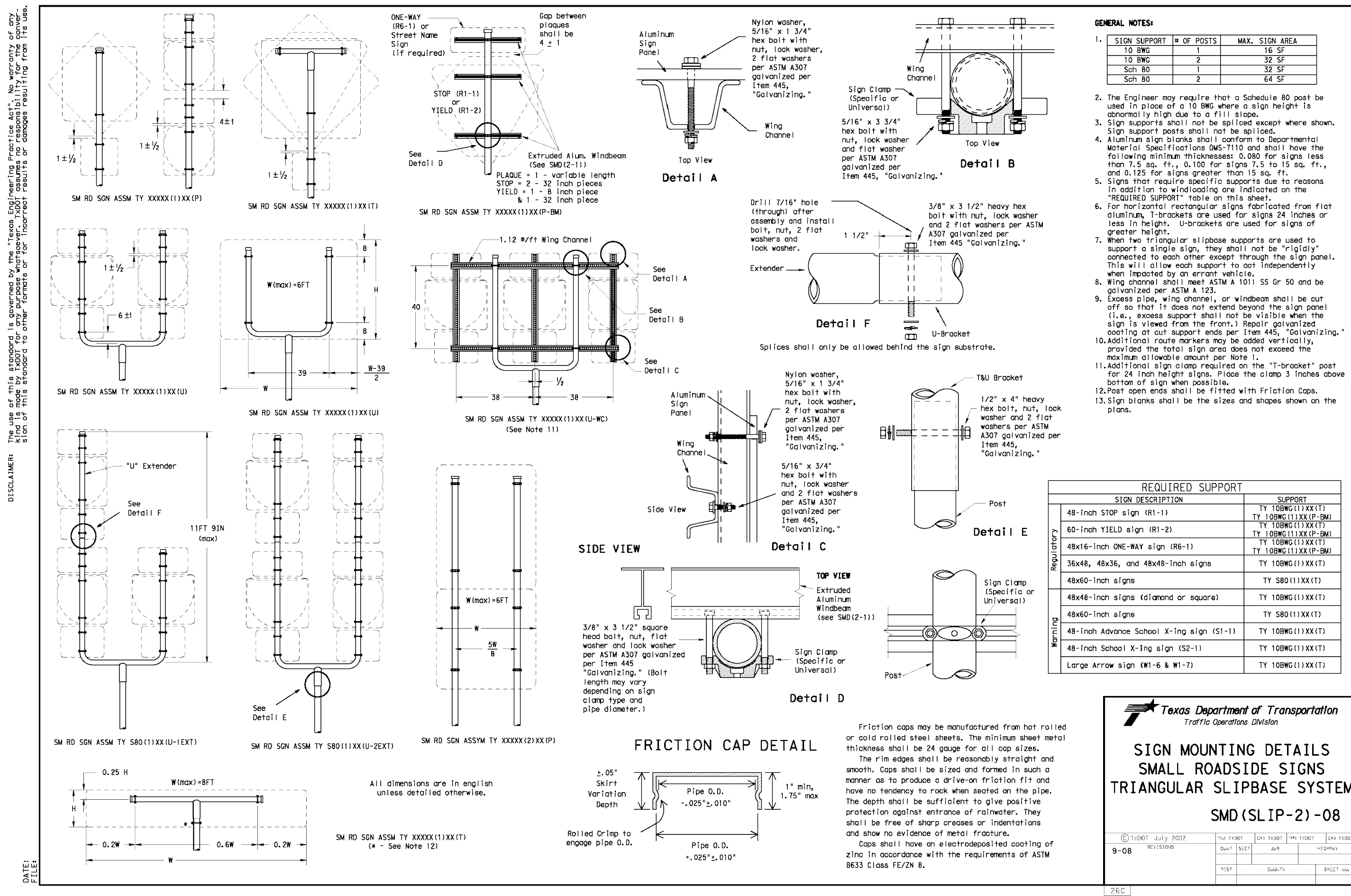
CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR STRUCTURAL DESIGN/ GEOTECHNICAL/ SAFETY/EQUIPMENT CONSULTANT, IF ANY, SHALL REVIEW THESE PLANS AND ANY AVAILABLE GEOTECHNICAL INFORMATION AND THE ANTICIPATED INSTALLATION SITES WITHIN THE PROJECT WORK AREA IN ORDER TO IMPLEMENT CONTRACTOR'S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

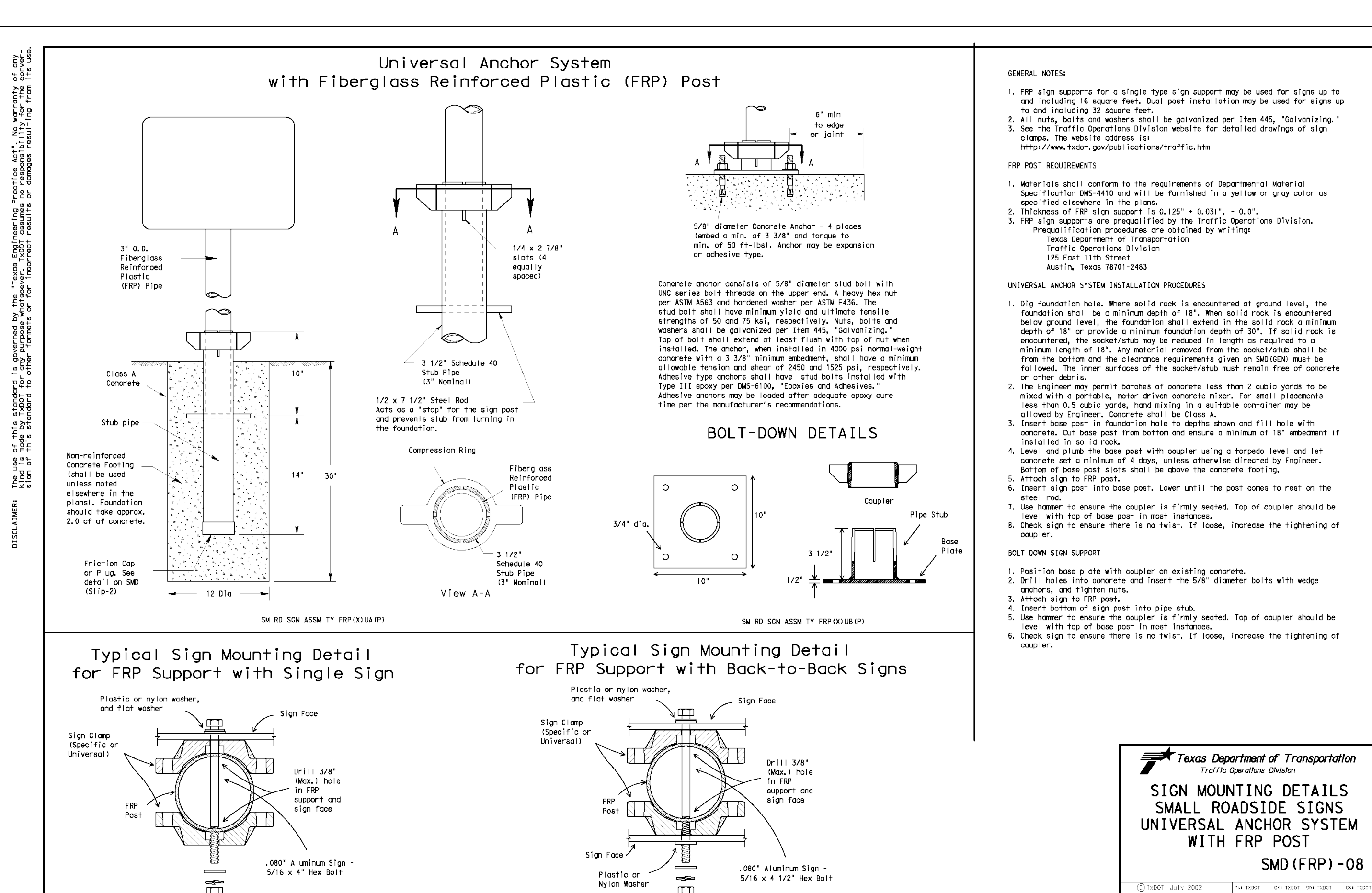
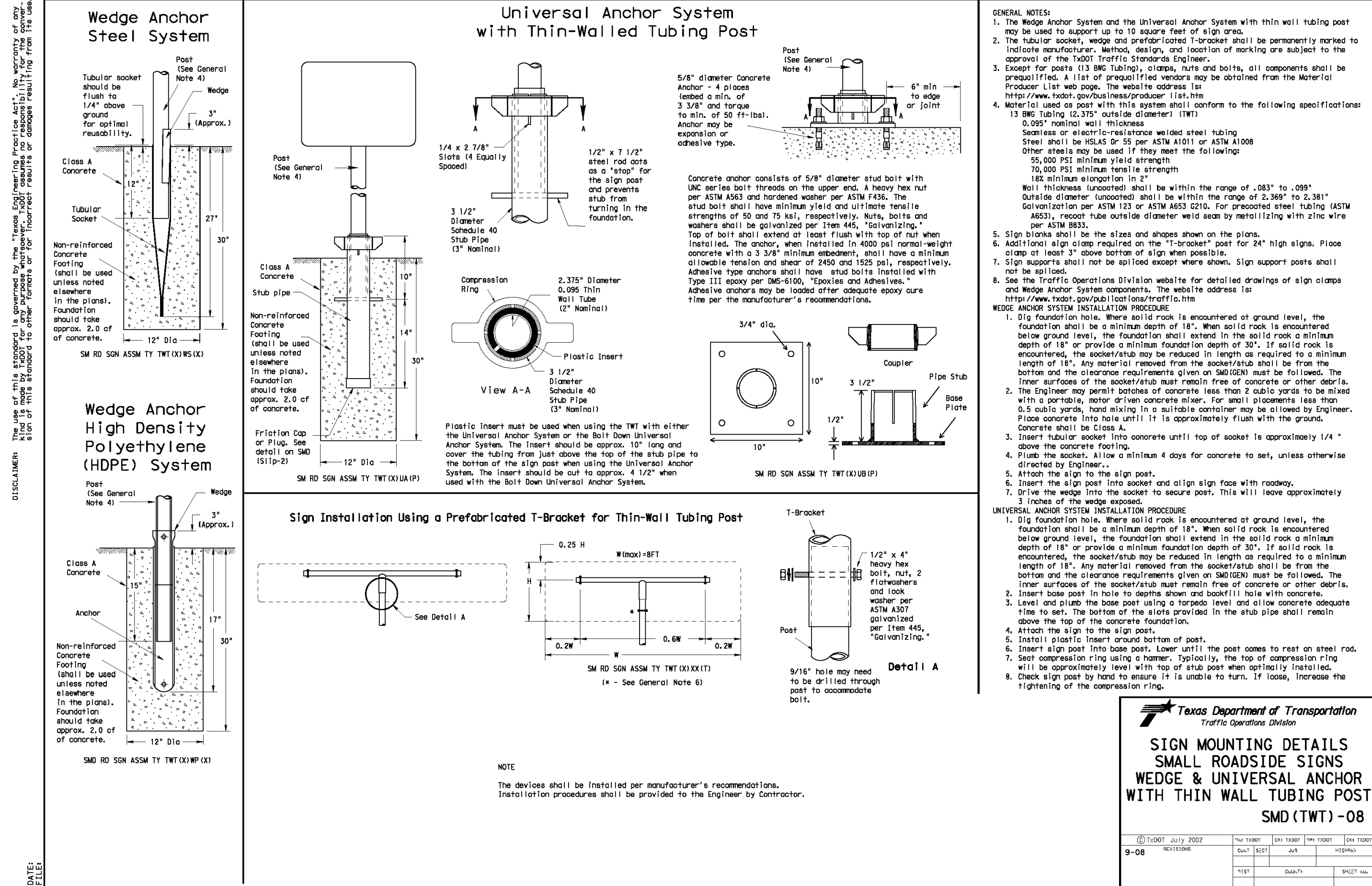
STONEHILL, UNIT-4A
SAN ANTONIO, TEXAS
OVERALL SIGNAGE PLAN

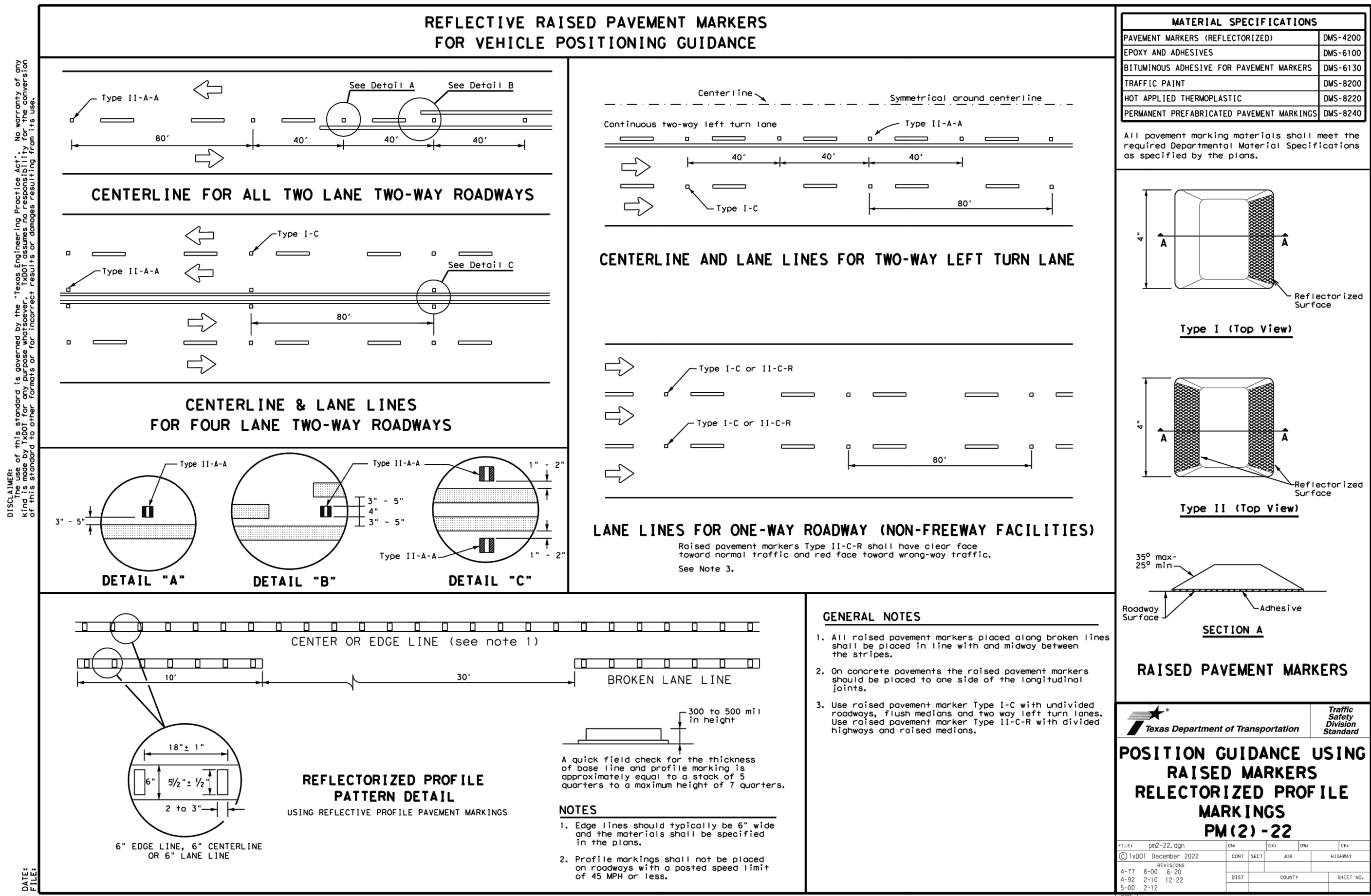
PLAT NO.	24-11800201
JOB NO.	12456-16
DATE	MAY 2024
DESIGNER	CB
CHECKED	BL
DRAWN	KC
SHEET	C3.00

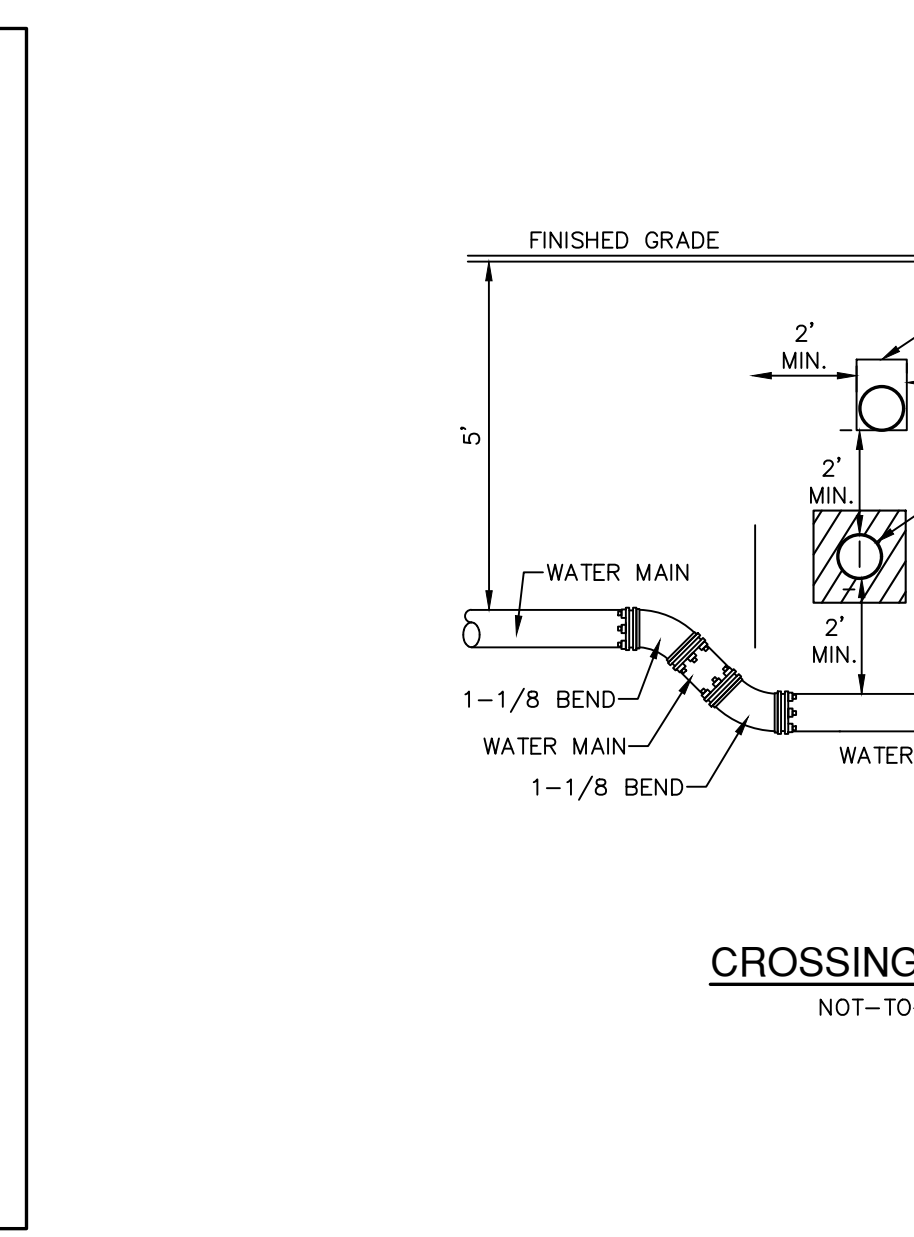
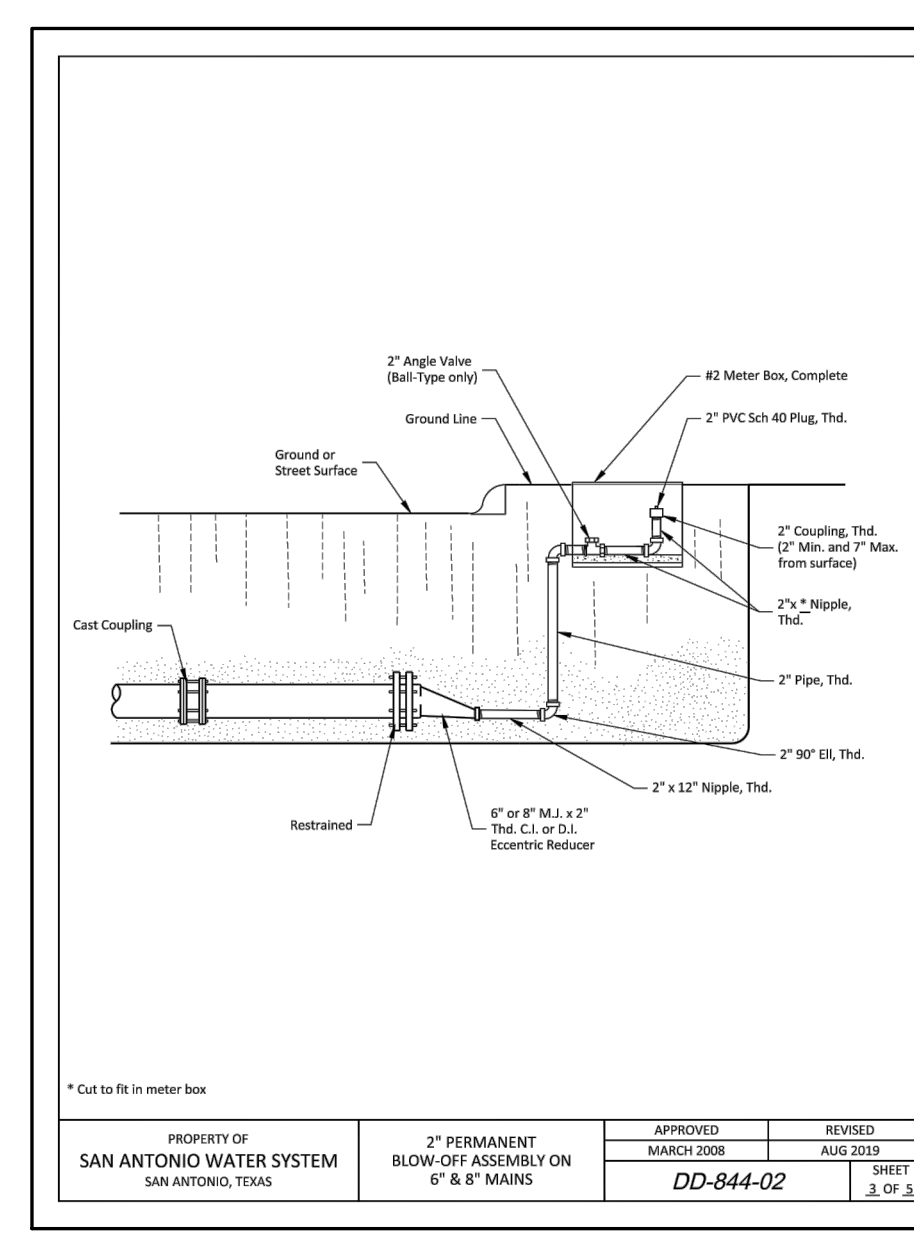
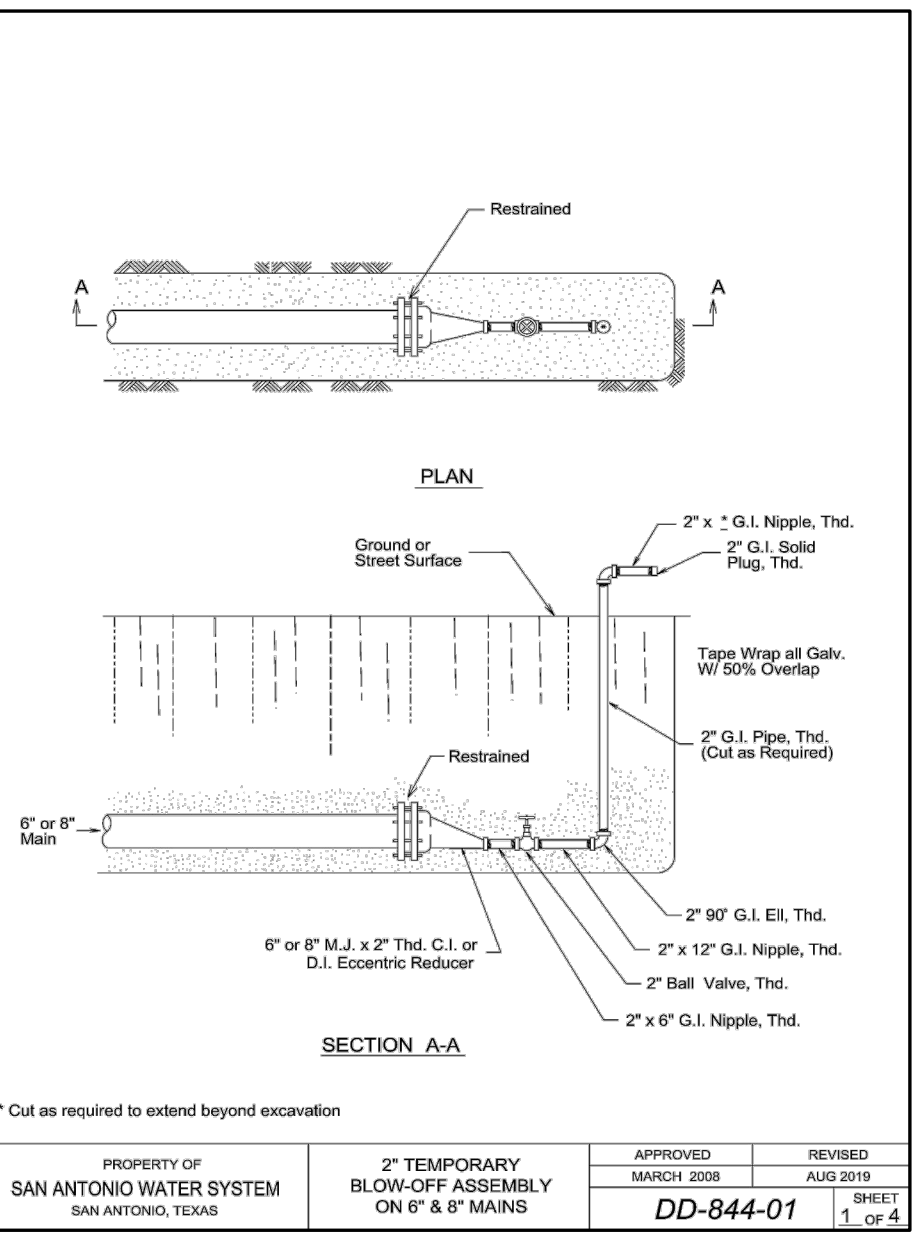
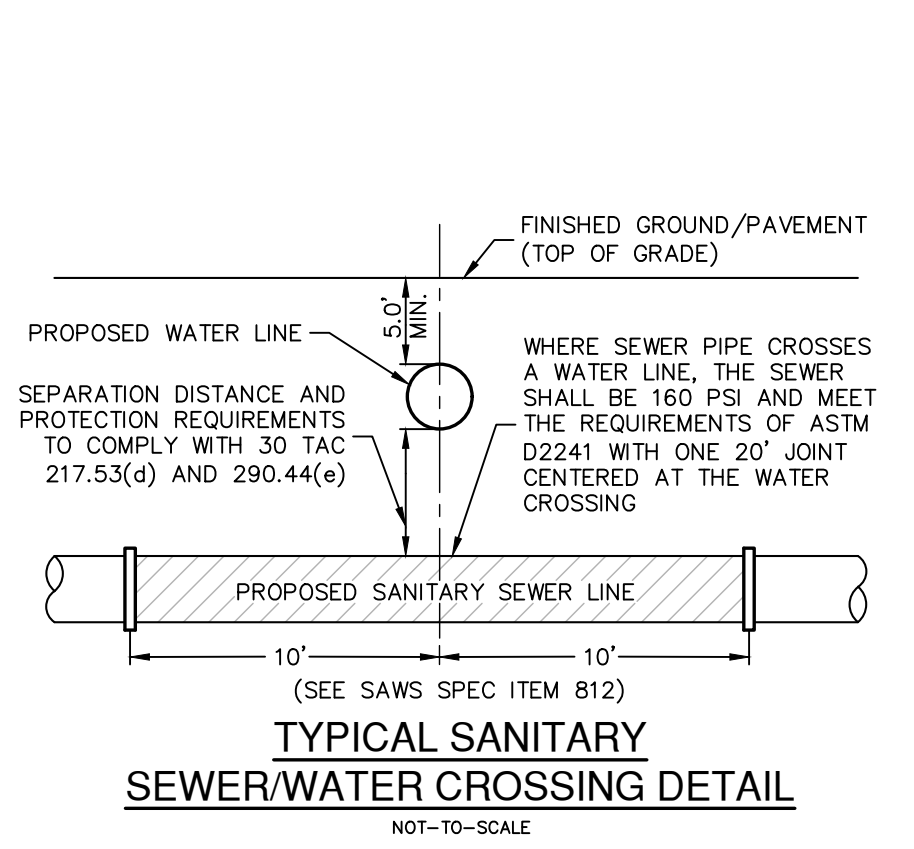
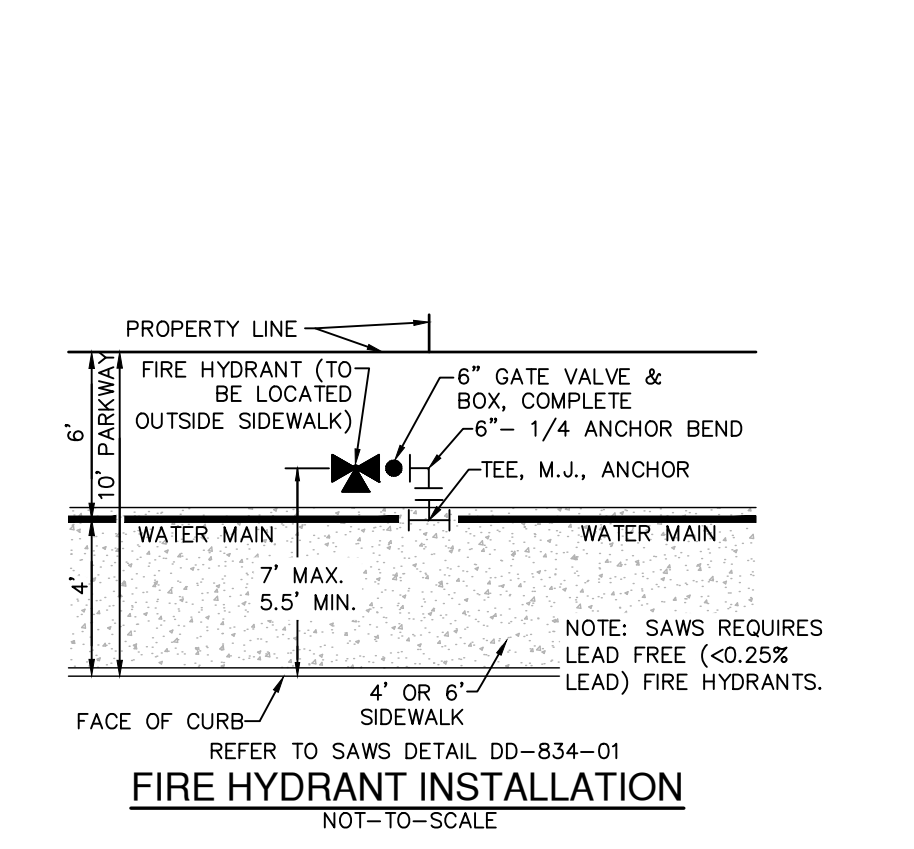
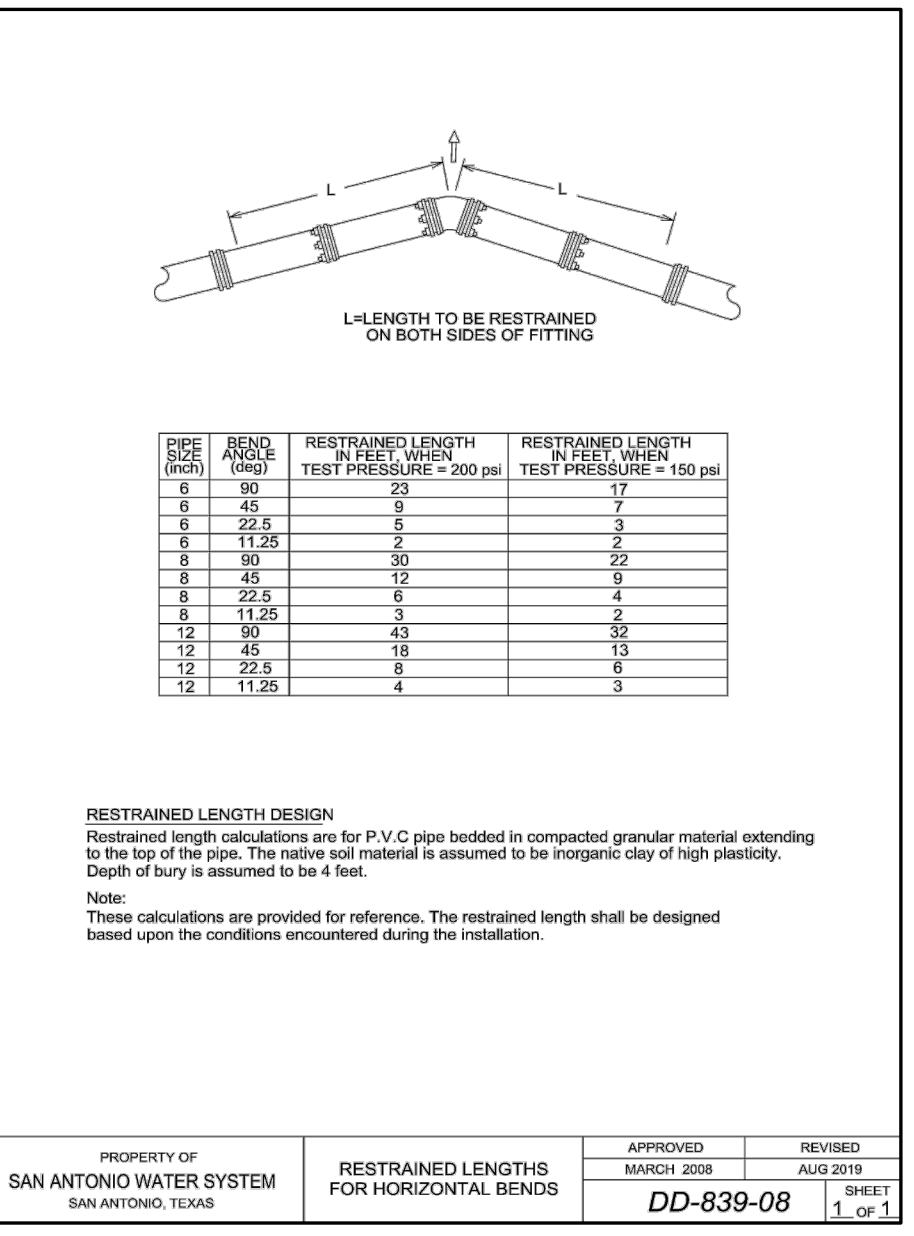
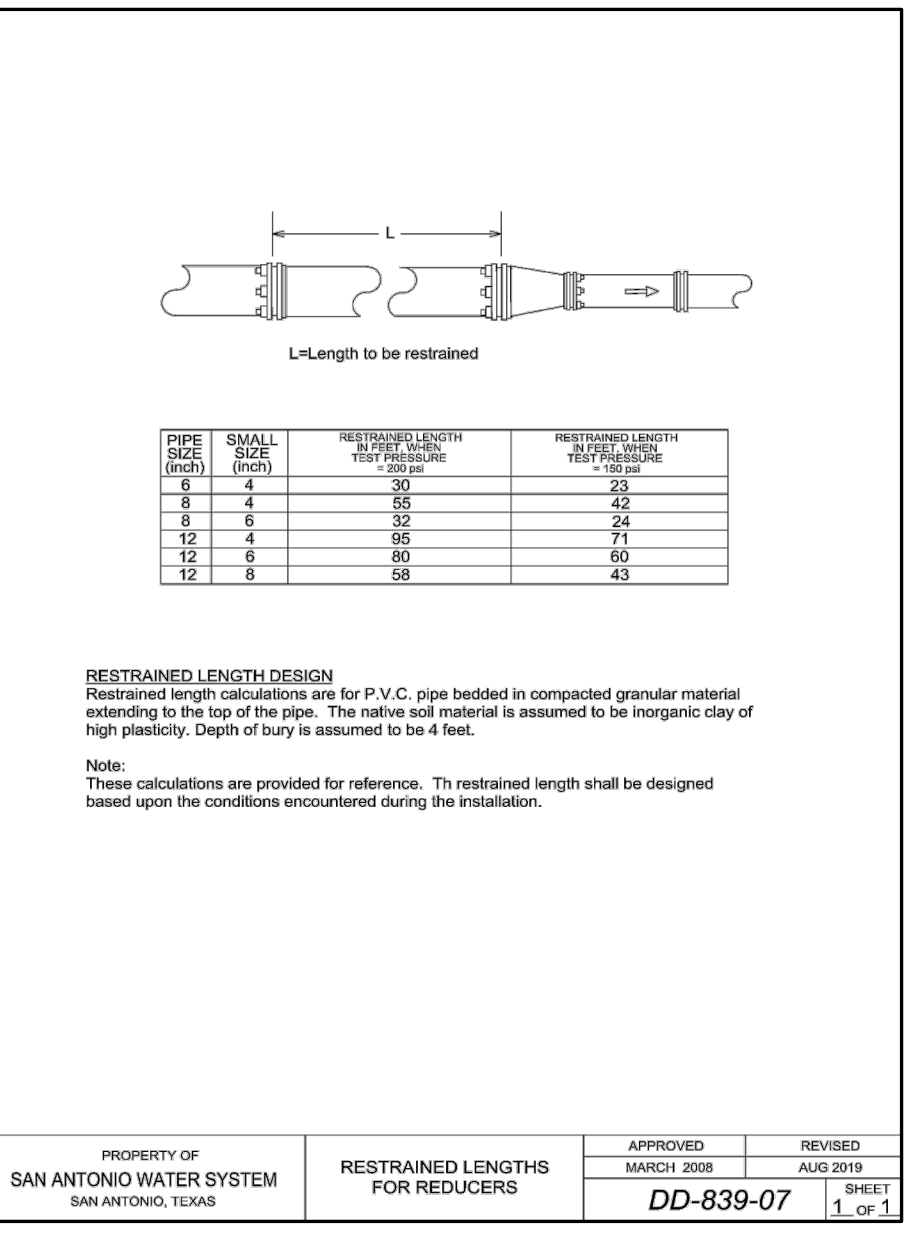
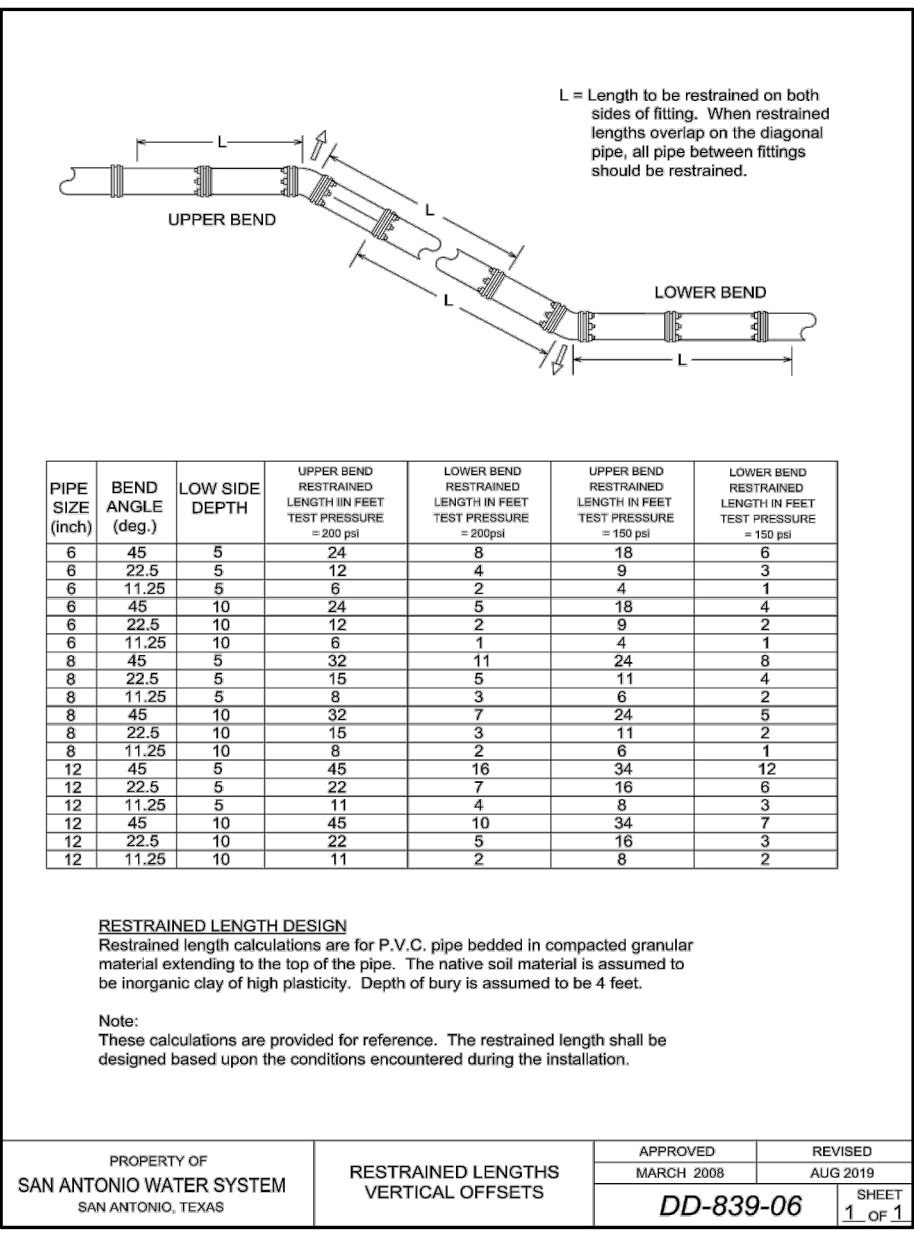
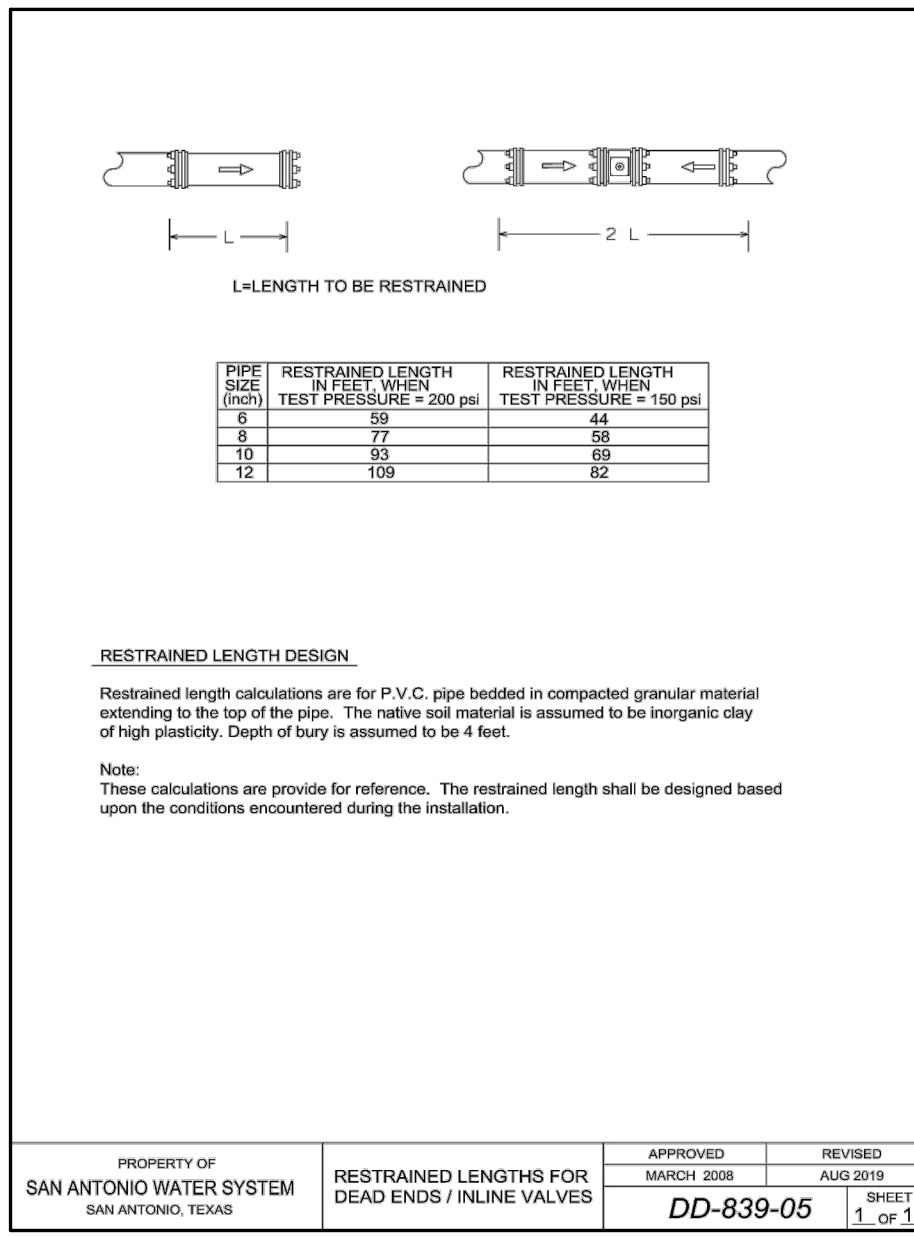
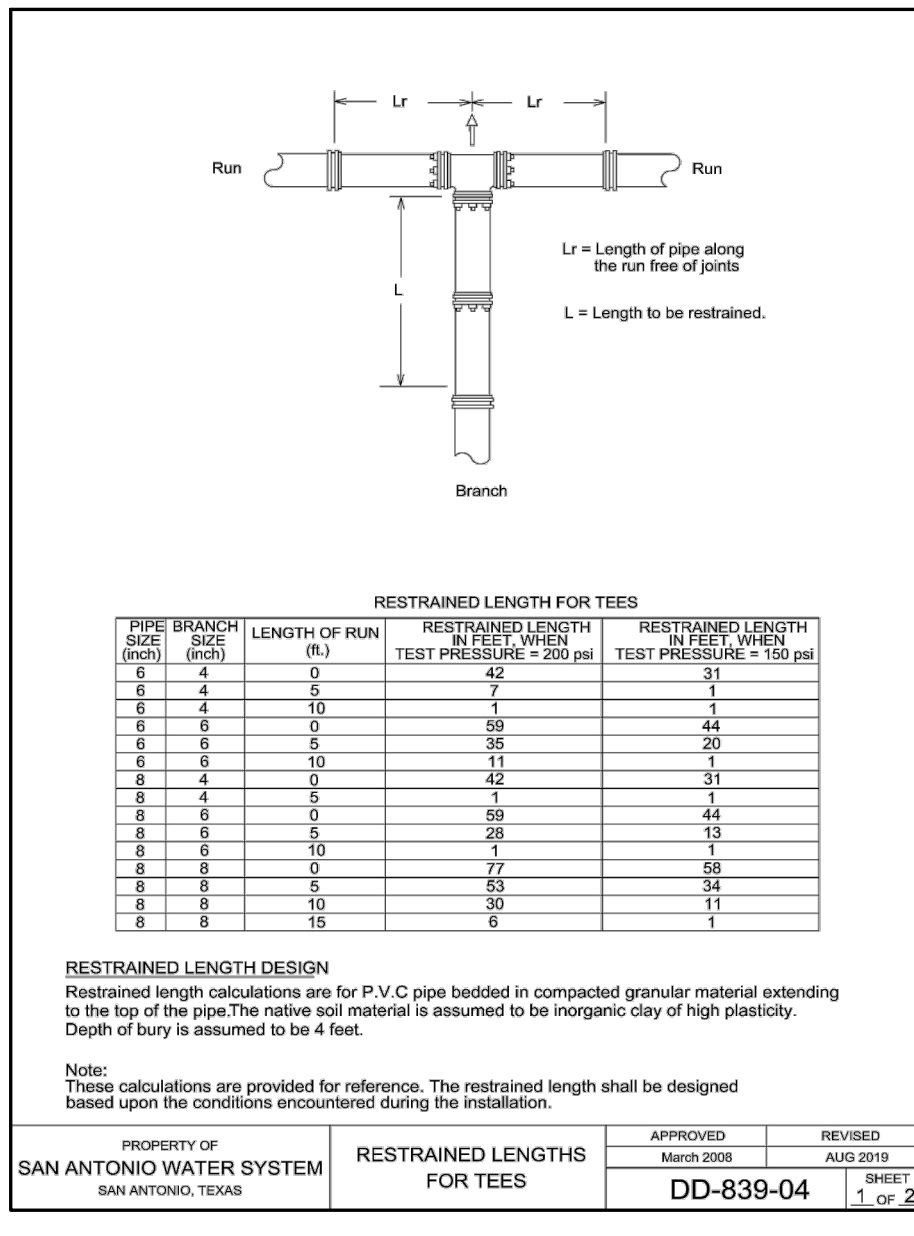
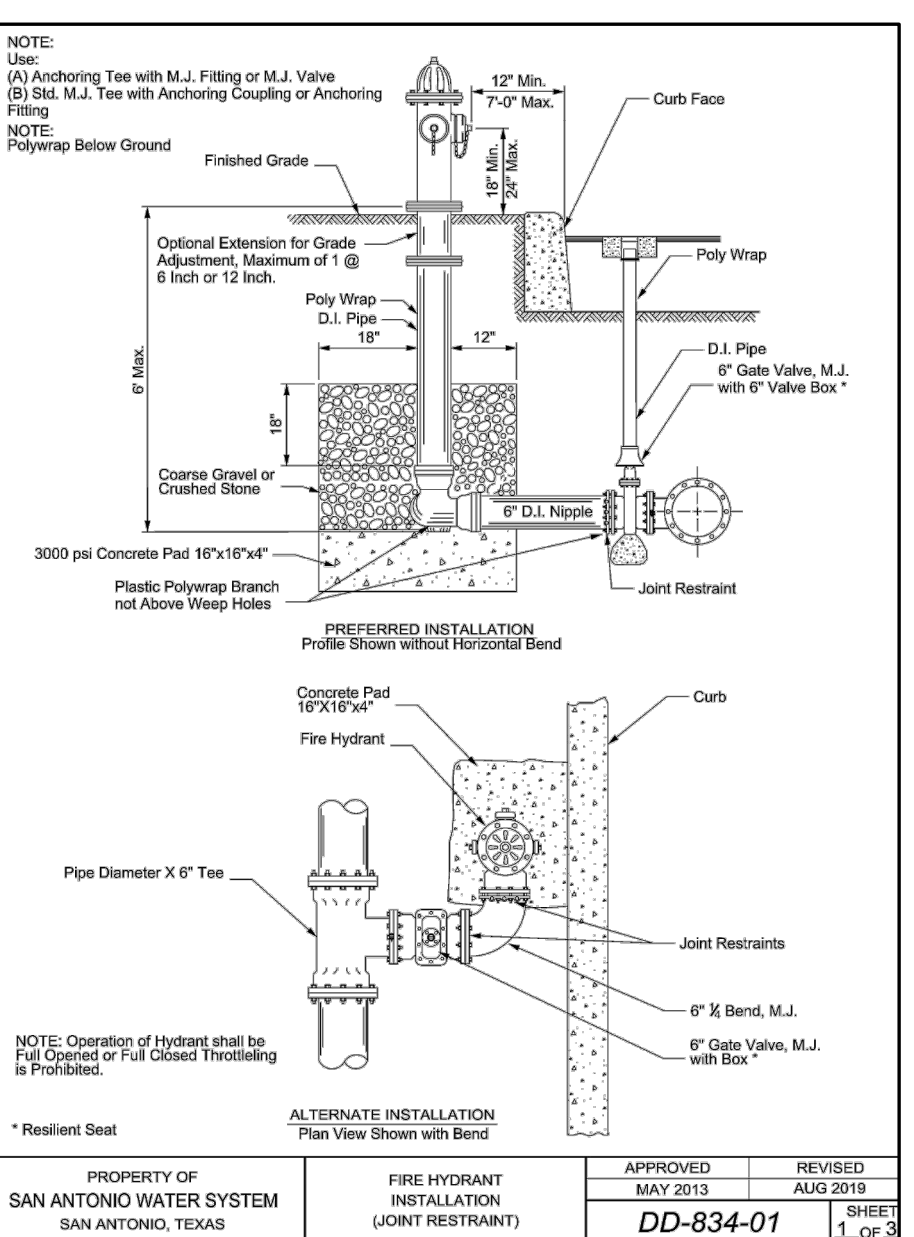
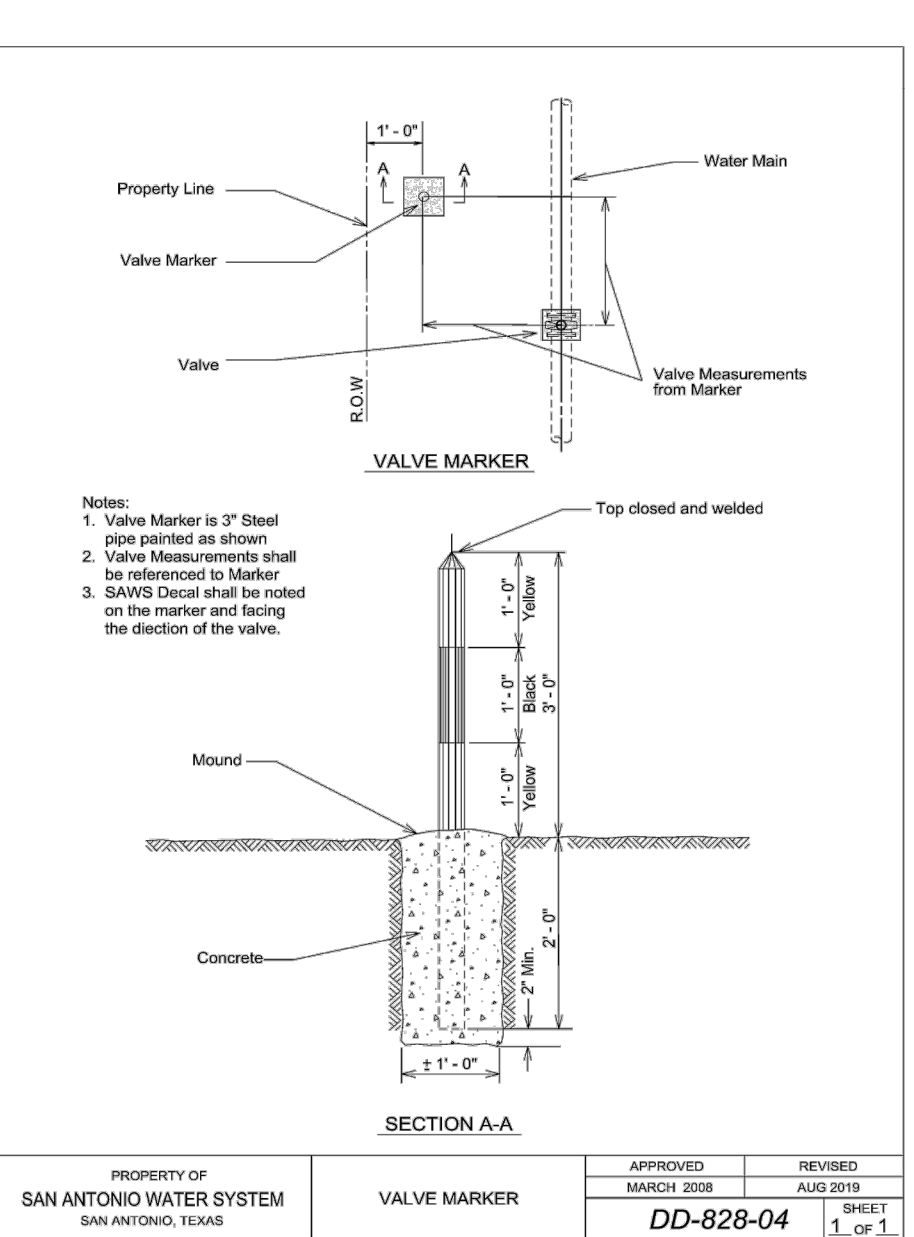
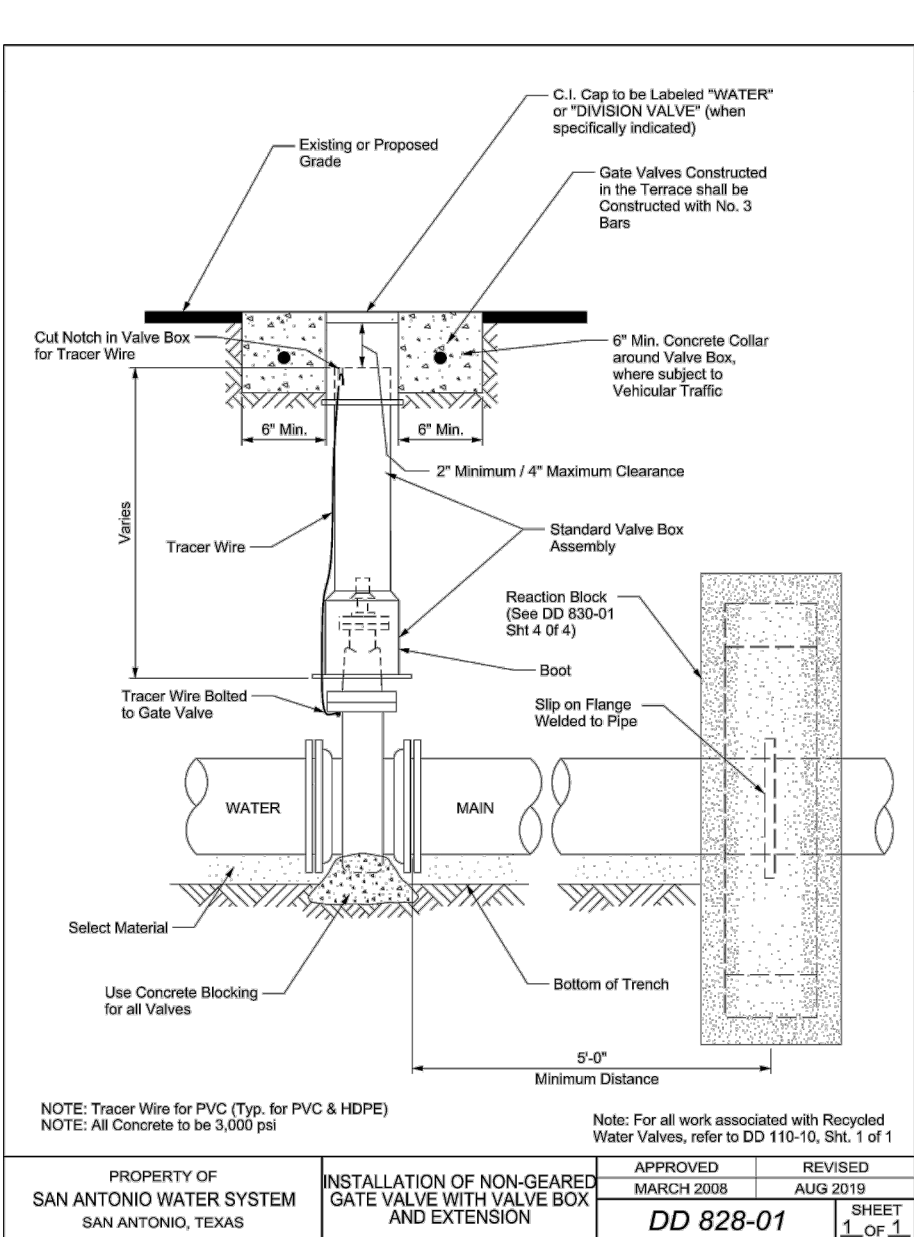
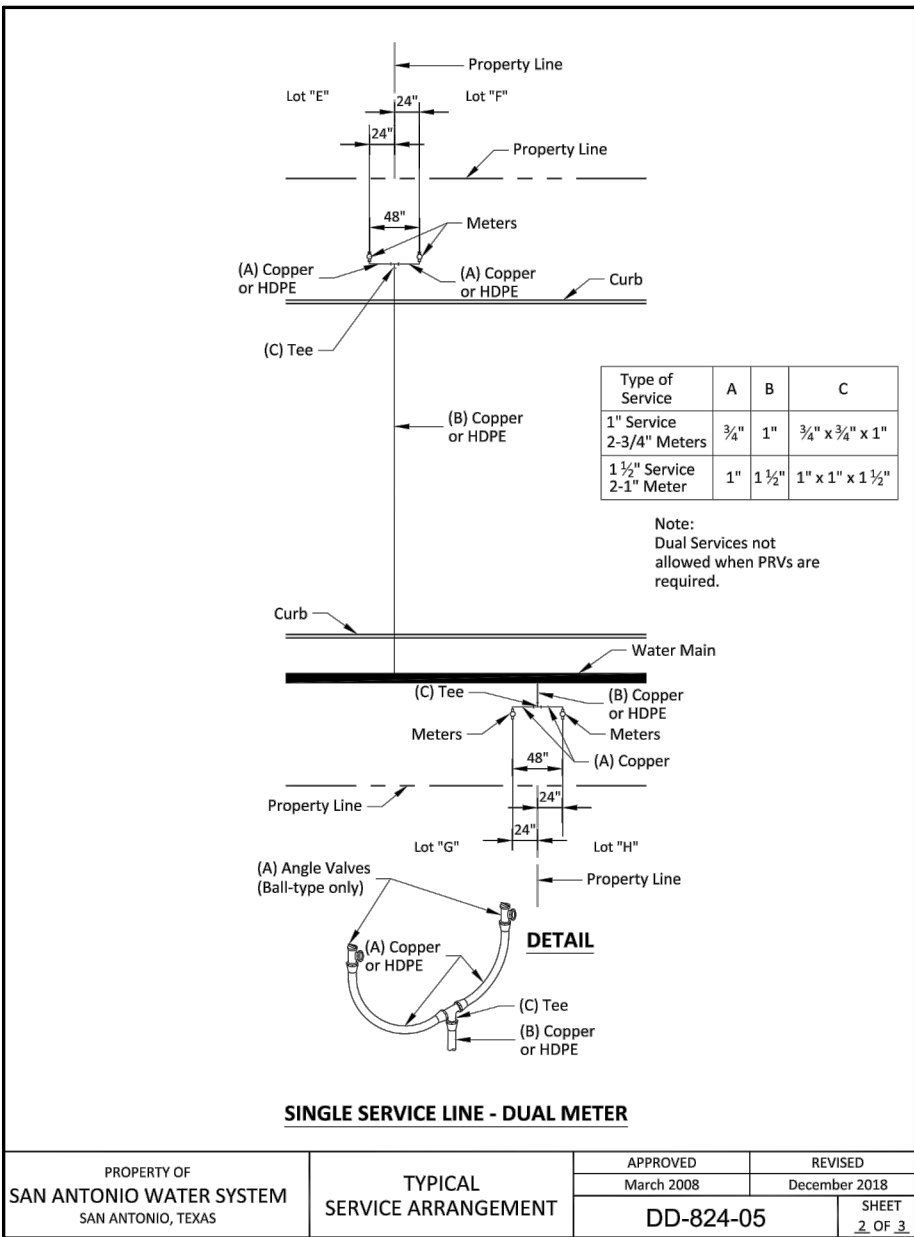
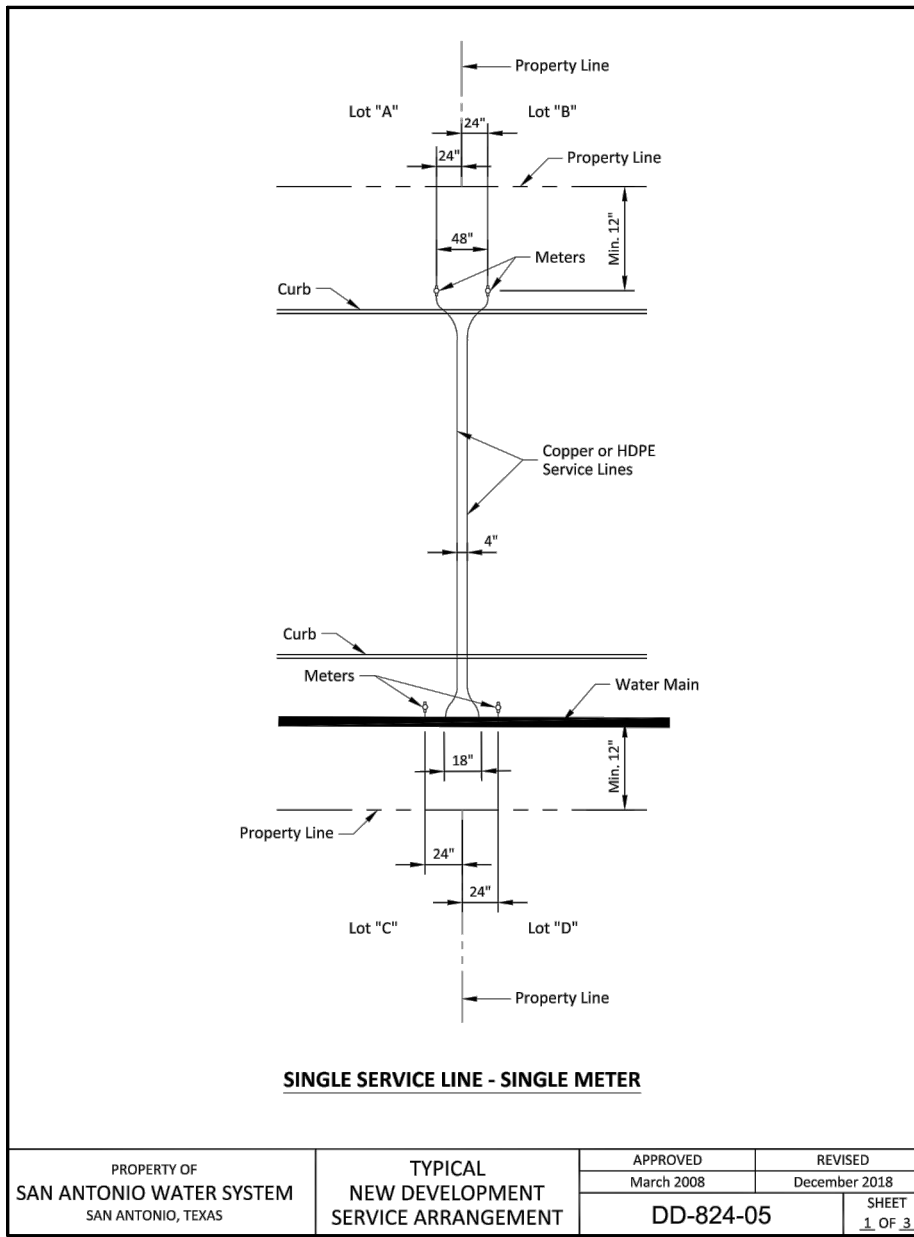


PAPE-DAWSON ENGINEERS
2000 NW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000
TEXAS ENGINEERING FIRM #470 | TEXAS SURVEYING FIRM #1002800









WATER (SAWS PRESSURE ZONE 930)

DEVELOPER'S NAME: CONTINENTAL HOMES OF TEXAS, L.P.

ADDRESS: 5419 N LOOP 1604 E

CITY: SAN ANTONIO STATE: TEXAS ZIP: 78247

PHONE# (210) 496-2668 FAX# (210) 496-2668

SAWS BLOCK MAP# 068562 TOTAL EDU'S .92 TOTAL ACREAGE 11.135

TOTAL LINEAR FOOTAGE OF PIPE: 8" ~ 2,791 PLAT NO. 24-11800201

NUMBER OF LOTS .92 SAWS JOB NO. 24-1084

PAPE-DAWSON ENGINEERS

2000 HW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000

TEXAS ENGINEERING FIRM #470 | TEXAS SURVEYING FIRM #1008800

STONEHILL, UNIT-4A

SAN ANTONIO, TEXAS

WATER DISTRIBUTION PLAN DETAILS

PLAT NO. 24-11800201

JOB NO. 12456-16

DATE MAY 2024

DESIGNER CB

CHECKED BL DRAWN JF

SHEET C4.10

SAWS CONSTRUCTION NOTES
(LAST REVISED JANUARY 2022)

SAWS GENERAL SECTION

1. ALL MATERIALS AND CONSTRUCTION PROCEDURES WITHIN THE SCOPE OF THIS CONTRACT SHALL BE APPROVED BY THE SAN ANTONIO WATER SYSTEM (SAWS) AND COMPLY WITH THE PLANS, SPECIFICATIONS, GENERAL CONDITIONS AND WITH THE FOLLOWING AS APPLICABLE:
- A.CURRENT TEXAS COMMISSION ON ENVIRONMENTAL QUALITY (TCEQ) "DESIGN CRITERIA FOR DOMESTIC WASTEWATER SYSTEM" TEXAS ADMINISTRATIVE CODE (TAC) TITLE 30 PART 1 CHAPTER 217 AND "PUBLIC DRINKING WATER" TAC TITLE 30 PART 1 CHAPTER 290.
- B.CURRENT TXDOT "STANDARD SPECIFICATIONS FOR CONSTRUCTION OF HIGHWAYS, STREETS AND DRAINAGE".
- C.CURRENT "SAN ANTONIO WATER SYSTEM STANDARD SPECIFICATIONS FOR WATER AND SANITARY SEWER CONSTRUCTION".
- D.CURRENT CITY OF SAN ANTONIO "STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION".
- E.CURRENT CITY OF SAN ANTONIO "UTILITY EXCAVATION CRITERIA MANUAL" (UECM).
2. 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.
3. THE CONTRACTOR SHALL OBTAIN THE SAWS STANDARD DETAILS FROM THE SAWS WEBSITE, [HTTP://WWW.SAWS.ORG/BUSINESS_CENTER/SPECS](http://www.saws.org/business_center/specs). UNLESS OTHERWISE NOTED WITHIN THE DESIGN PLANS.
4. THE CONTRACTOR IS TO MAKE ARRANGEMENTS WITH THE SAWS CONSTRUCTION INSPECTION DIVISION WILL BE THE UTILITY MAINS. IT WILL BE THE UTILITY (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.
5. LOCATION AND DEPTH OF EXISTING UTILITIES AND SERVICE LATERALS SHOWN ON THE PLANS ARE UNDERSTOOD TO BE APPROXIMATE. ACTUAL LOCATIONS AND DEPTHS MUST BE FIELD VERIFIED BY THE CONTRACTOR AT LEAST 1 WEEK PRIOR TO CONSTRUCTION. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO LOCATE UTILITY SERVICE LINES AS REQUIRED FOR CONSTRUCTION AND TO PROTECT THEM DURING CONSTRUCTION AT NO COST TO SAWS.
6. 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 MARKERS LOCATION MARKERS ON SAWS FACILITIES. THE FOLLOWING CONTACT INFORMATION ARE SUPPLIED FOR VERIFICATION PURPOSES:
- SAWS UTILITY LOCATES: [HTTP://WWW.SAWS.ORG/SERVICE/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
7. 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.
8. ALL WORK IN TEXAS DEPARTMENT OF TRANSPORTATION (TXDOT) AND/OR BEXAR COUNTY RIGHT-OF-WAY SHALL BE DONE IN ACCORDANCE WITH RESPECTIVE CONSTRUCTION SPECIFICATIONS AND PERMIT REQUIREMENTS.
9. THE CONTRACTOR SHALL COMPLY WITH CITY OF SAN ANTONIO OR OTHER GOVERNING MUNICIPALITY'S TREE ORDINANCES WHEN EXCAVATING NEAR TREES.
10. THE CONTRACTOR SHALL NOT PLACE ANY WASTE MATERIALS IN THE 100-100' FLOOD PLAIN WITHOUT FIRST OBTAINING AN APPROVED FLOOD PLAIN PERMIT.
- HOLIDAY WORK: CONTRACTORS WILL NOT BE ALLOWED TO PERFORM SAWS WORK ON SAWS RECOGNIZED HOLIDAYS. REQUEST SHOULD BE SENT TO CONSTWORKREQ@SAWS.ORG.
- WEEKEND WORK: CONTRACTORS ARE REQUIRED TO NOTIFY THE SAWS INSPECTION CONSTRUCTION DEPARTMENT 48 HOURS IN ADVANCE TO REQUEST WEEKEND WORK. REQUEST SHOULD BE SENT TO CONSTWORKREQ@SAWS.ORG.
11. ANY AND ALL SAWS UTILITY WORK INSTALLED WITHOUT HOLIDAY/WEEKEND APPROVAL WILL BE SUBJECT TO BE UNCOVERED FOR PROPER INSPECTION.
12. COMPACTION NOTE (ITEM 804): THE CONTRACTOR SHALL BE RESPONSIBLE FOR MEETING THE COMPACTION REQUIREMENTS ON ALL TRENCH BACKFILL AND FOR PAYING FOR THE TESTS PERFORMED BY A THIRD PARTY. COMPACTION TESTS WILL BE DONE AT ONE LOCATION POINT RANDOMLY SELECTED, OR AS INDICATED BY THE SAWS INSPECTOR AND/OR THE TEST ADMINISTRATOR, PER EACH 12-INCH LOOSE LIFT PER 400 LINEAR FEET AT A MINIMUM. THIS PROJECT WILL NOT BE ACCEPTED AND FINALIZED BY SAWS WITHOUT THIS REQUIREMENT BEING MET AND VERIFIED BY PROVIDING ALL NECESSARY DOCUMENTED TEST RESULTS.
13. A COPY OF ALL TESTING REPORTS SHALL BE FORWARDED TO SAWS CONSTRUCTION INSPECTION DIVISION.

SAWS WATER NOTES

1. 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 RESPONSIBILITY OF THE CONTRACTOR TO SEQUENCE THE WORK ACCORDINGLY.
- FOR WATER MAINS 12" OR HIGHER: SAWS EMERGENCY OPERATIONS CENTER (210) 233-2014
2. 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".
3. 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. (NSP)
4. 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 745 FEET WHERE THE STATIC PRESSURE WILL NORMALLY EXCEED 80 PSI. AT ALL SUCH LOCATIONS WHERE THE GROUND LEVEL IS BELOW 745 FEET, THE DEVELOPER OR BUILDER SHALL INSTALL AT EACH LOT, ON THE CUSTOMER'S SIDE OF THE METER, AN APPROVED TYPE PRESSURE REGULATOR IN CONFORMANCE WITH THE PLUMBING CODE OF THE CITY OF SAN ANTONIO. NO DUAL SERVICES ALLOWED FOR ANY LOT(S) IF *PRV IS/ARE REQUIRED FOR SUCH LOT(S), ONLY SINGLE SERVICE CONNECTIONS SHALL BE ALLOWED. *NOTE: A PRESSURE REGULATOR IS ALSO KNOWN AS A PRESSURE REDUCING VALVE (PRV).
7. PIPE DISINFECTION WITH DRY HTH FOR PROJECTS LESS THAN 800 LINEAR FEET. (ITEM NO. 847.3): MAINS SHALL BE DISINFECTED WITH DRY HTH WHERE SHOWN IN THE CONTRACT DOCUMENTS OR AS DIRECTED BY THE INSPECTOR, AND SHALL NOT EXCEED A TOTAL LENGTH OF 800 FEET THIS METHOD OF DISINFECTION WILL ALSO BE FOLLOWED FOR MAIN REPAIRS. 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.
9. FINAL CONNECTION TO THE EXISTING WATER MAIN SHALL NOT BE MADE 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

1. MACHINE CHLORINATION BY THE S.A.W.S.
2. ALL 8", 12" AND 16" PIPE SHALL BE P.V.C. C-900 CLASS 235 DR 18.
3. ALL MAINS SHALL BE HYDROSTATICALLY TESTED BY THE CONTRACTOR, AS PROVIDED FOR IN THE SPECIAL CONDITIONS.
4. 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 IT 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.
5. THE CONTRACTOR SHALL FURNISH THE ENGINEER WITH ALL THE FINAL MEASUREMENTS, TAPS AND LENGTH OF SERVICE CONNECTIONS.
6. 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.
7. 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.
8. WATER METER BOXES IF APPLICABLE SHALL BE INSTALLED NINE FEET FROM FACE OF CURB TO CENTER OF THE METER BOX.
9. ALL GARBAGE OR SPOIL MATERIAL FROM THIS WORK SHALL BE REMOVED FROM THE SITE BY THE CONTRACTOR, AT HIS EXPENSE.
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.
11. 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).
12. 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.
14. SAWS REQUIRES LEAD FREE (< 0.25%) FIRE HYDRANTS.
15. UNLESS OTHERWISE NOTED ALL SERVICES SHALL BE 3/4" WITH 5/8" METER.

PAPE-DAWSON
ENGINEERS

2000 NW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000
TEXAS ENGINEERING FIRM #470 | TEXAS SURVEYING FIRM #10028800

STONEHILL, UNIT-4A
SAN ANTONIO, TEXAS

WATER DISTRIBUTION PLAN NOTES

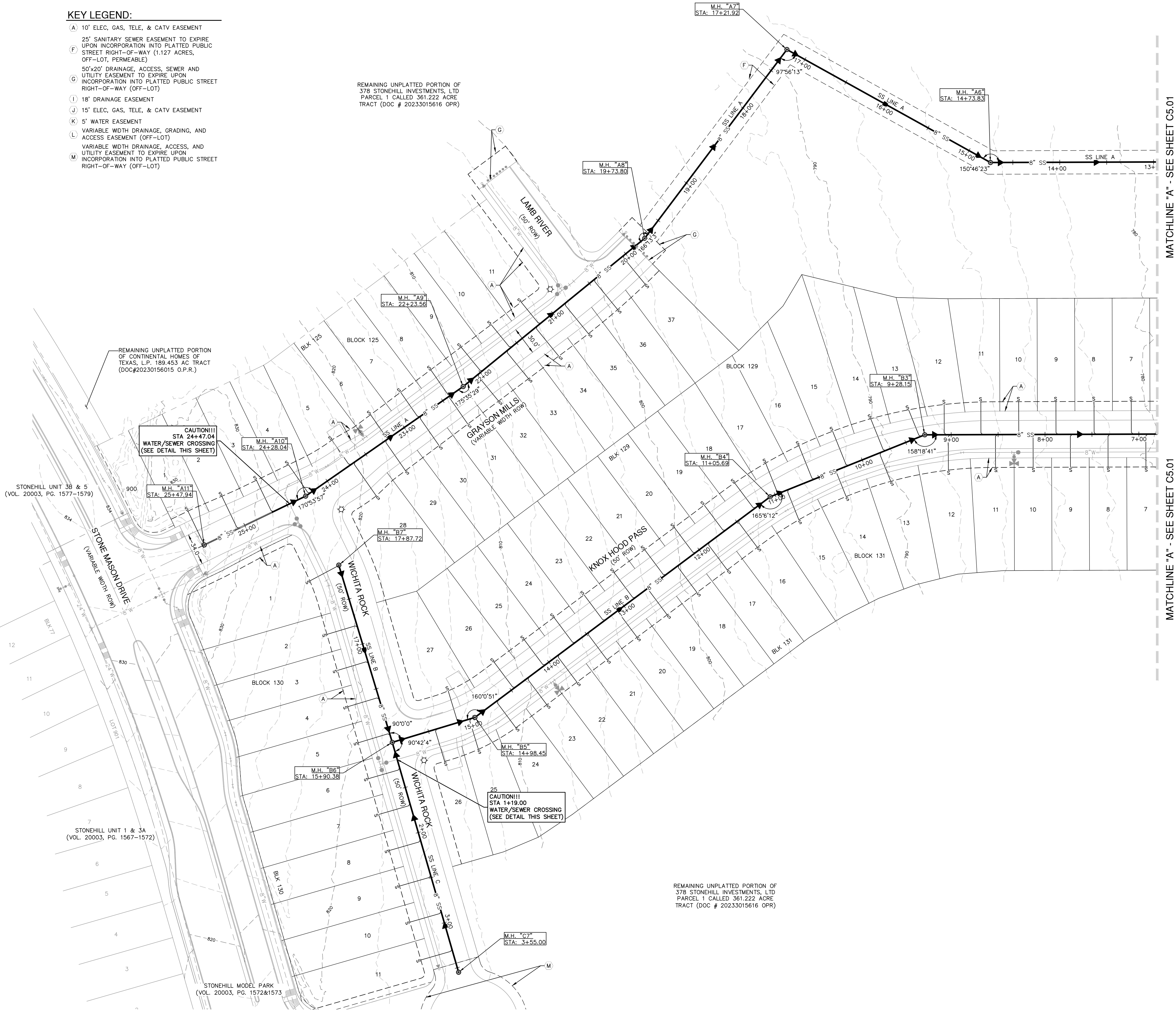
PLAT NO.	24-11800201
JOB NO.	12456-16
DATE	MAY 2024
DESIGNER	CB
CHECKED	BL DRAWN
SHEET	C4.11

NO.	REVISION	DATE



Date: August 14, 2024, 11:22 AM - User ID: rolvonez
File: P:\12456\18\Design\Civil\SSA-12456.dwg

THIS 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/© 2016 CARPOOL/2016 Digital Globe/2016 Texas Orthomography Program, USDA Farm Service Agency.



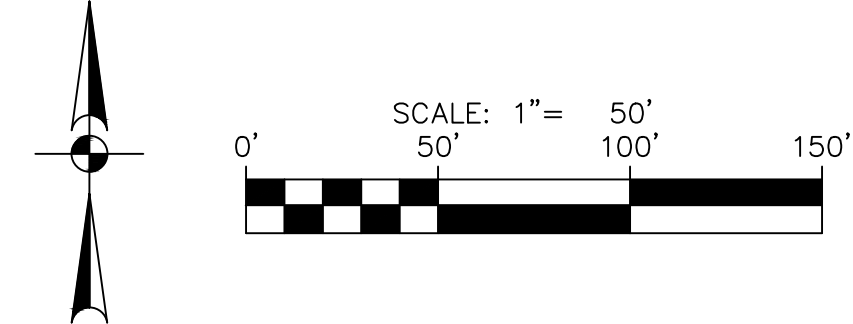
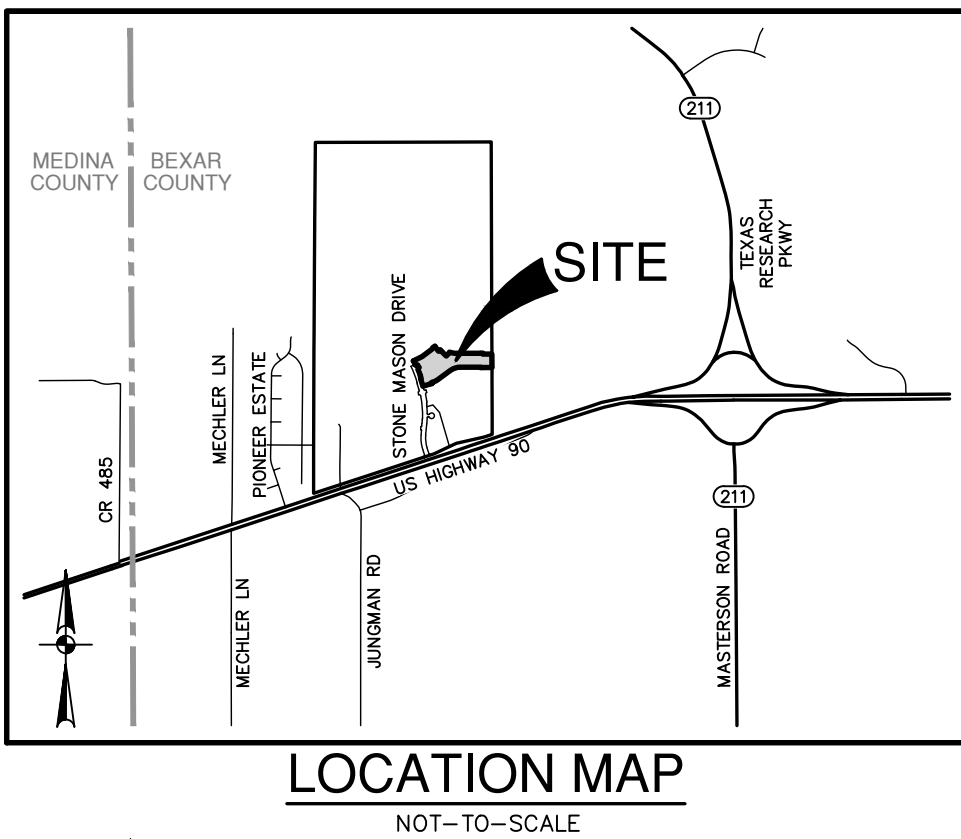
KEY LEGEND:

- A) 10' ELEC, GAS, TELE, & CATV EASEMENT
- 25' SANITARY SEWER EASEMENT TO EXPIRE UPON INCORPORATION INTO PLATTED PUBLIC STREET RIGHT-OF-WAY (1.127 ACRES, OFF-LOT, PERMEABLE)
- 50'x20' DRAINAGE, ACCESS, SEWER AND UTILITY EASEMENT TO EXPIRE UPON INCORPORATION INTO PLATTED PUBLIC STREET RIGHT-OF-WAY (OFF-LOT)
- 1) 18' DRAINAGE EASEMENT
- J) 15' ELEC, GAS, TELE, & CATV EASEMENT
- K) 5' WATER EASEMENT
- L) VARIABLE WIDTH DRAINAGE, GRADING, AND ACCESS EASEMENT (OFF-LOT)
- M) VARIABLE WIDTH DRAINAGE, ACCESS, AND UTILITY EASEMENT TO EXPIRE UPON INCORPORATION INTO PLATTED PUBLIC STREET RIGHT-OF-WAY (OFF-LOT)

REMAINING UNPLATTED PORTION OF 378 STONEHILL INVESTMENTS, LTD PARCEL 1 CALLED 361.222 ACRE TRACT (DOC # 20233015616 OPR)

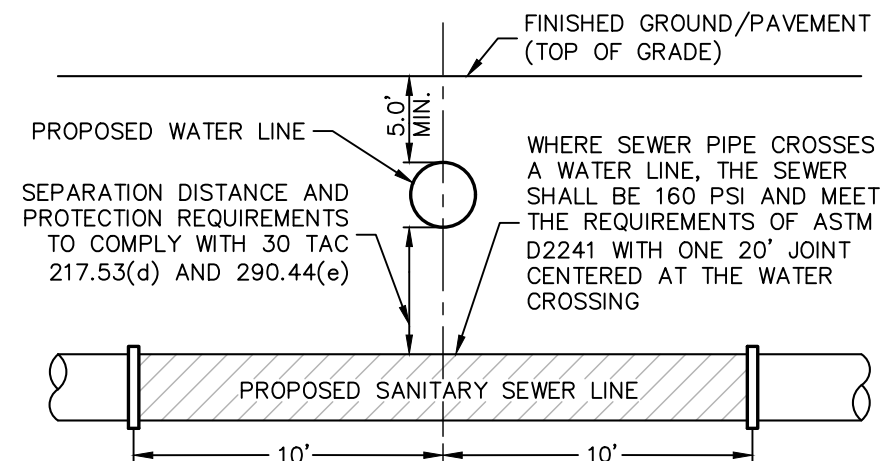
REMAINING UNPLATTED PORTION OF CONTINENTAL HOMES OF TEXAS, L.P. 189.453 AC TRACT (DOC#20230156015 O.P.R.)

REMAINING UNPLATTED PORTION OF 378 STONEHILL INVESTMENTS, LTD PARCEL 1 CALLED 361.222 ACRE TRACT (DOC # 20233015616 OPR)



SEWER LEGEND

- PROJECT LIMITS
- EXISTING WATER
- EXISTING SEWER
- PROPOSED SEWER
- PROPOSED WATER
- PROPOSED SEWER LATERAL
- FINISHED FLOOR ELEVATION FOR SEWER



TYPICAL SANITARY SEWER/WATER CROSSING DETAIL

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, SECONDARY ELECTRIC, PRIMARY ELECTRICAL DUCTBANKS, LANDSCAPE IRRIGATION FACILITIES, AND GAS LINES. ANY UTILITY CONFLICTS THAT ARISE SHOULD BE COMMUNICATED TO THE ENGINEER IMMEDIATELY AND PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL CONTACT 1-800-DIG-TESS A MINIMUM OF 48 HOURS PRIOR TO THE START OF CONSTRUCTION. ANY DAMAGE TO EXISTING UTILITIES SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR AND THE REPAIR SHALL BE AT CONTRACTOR'S SOLE EXPENSE WHETHER THE UTILITY IS SHOWN ON THESE PLANS OR NOT.

FINISHED FLOOR NOTES:

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

ROW PERMIT NOTE:

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

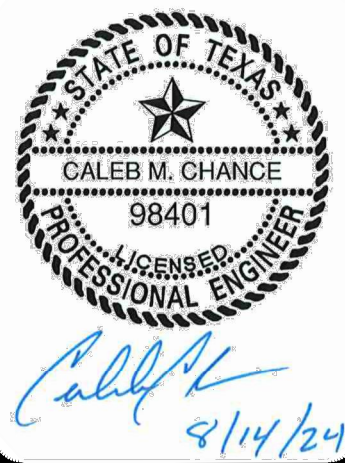
TRENCH EXCAVATION SAFETY PROTECTION:

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

SEWER: (DOS RIOS WRC)

DEVELOPER'S NAME: CONTINENTAL HOMES OF TEXAS, L.P.			
ADDRESS: 5419 N LOOP 1604 E			
CITY: SAN ANTONIO	STATE: TEXAS	ZIP: 78247	
PHONE# (210) 496-2668	FAX# (210) 496-2668		
SAWS BLOCK MAP# 068562 TOTAL EDU'S .92 TOTAL ACREAGE 11.135			
TOTAL LINEAR FOOTAGE OF PIPE: 8" ~ 4,441' PLAT NO. 24-11800201			
NUMBER OF LOTS .92 SAWS JOB NO. 24-1565			

DATE
NO.
REVISION



PAPE-DAWSON ENGINEERS
2000 NW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000
TEXAS ENGINEERING FIRM #470 | TEXAS SURVEYING FIRM #1008800

STONEHILL, UNIT-4A
SAN ANTONIO, TEXAS
OVERALL SANITARY SEWER PLAN

PLAT NO.	24-11800201
JOB NO.	12456-16
DATE	MAY 2024
DESIGNER	CB
CHECKED	BL
DRAWN	JF
SHEET	C5.00

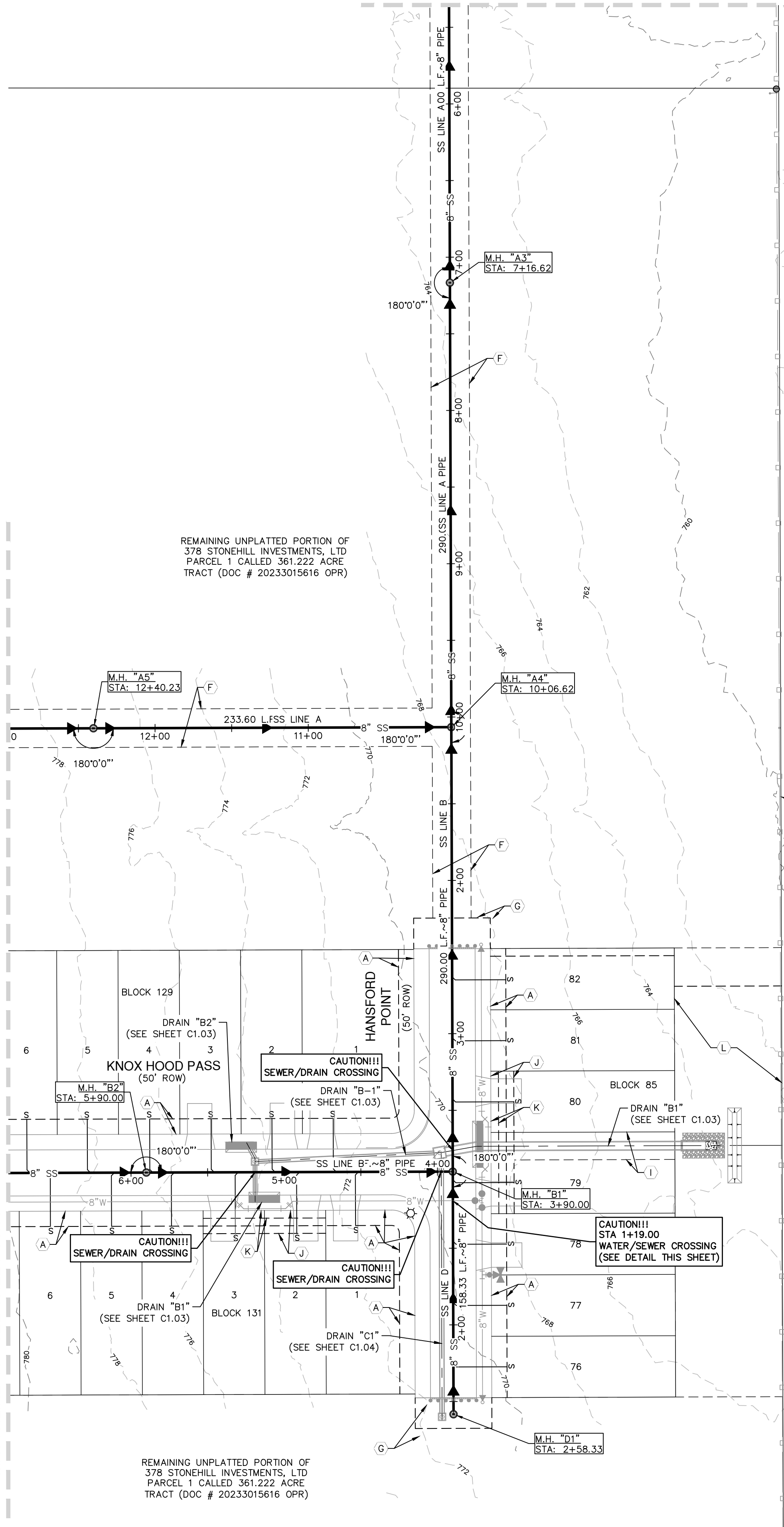
Date: September 6, 2024, 4:08 PM - User: rd-rehman
File: P:\1245616\Design\Civil\SS04-1245616.dwg

THIS 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, CAPCO, Digital Globe, Texas Orthomosaic Program, USDA Farm Service Agency.

MATCHLINE "B" - SEE THIS SHEET

MATCHLINE "A" - SEE SHEET C5.00

MATCHLINE "A" - SEE SHEET C5.00



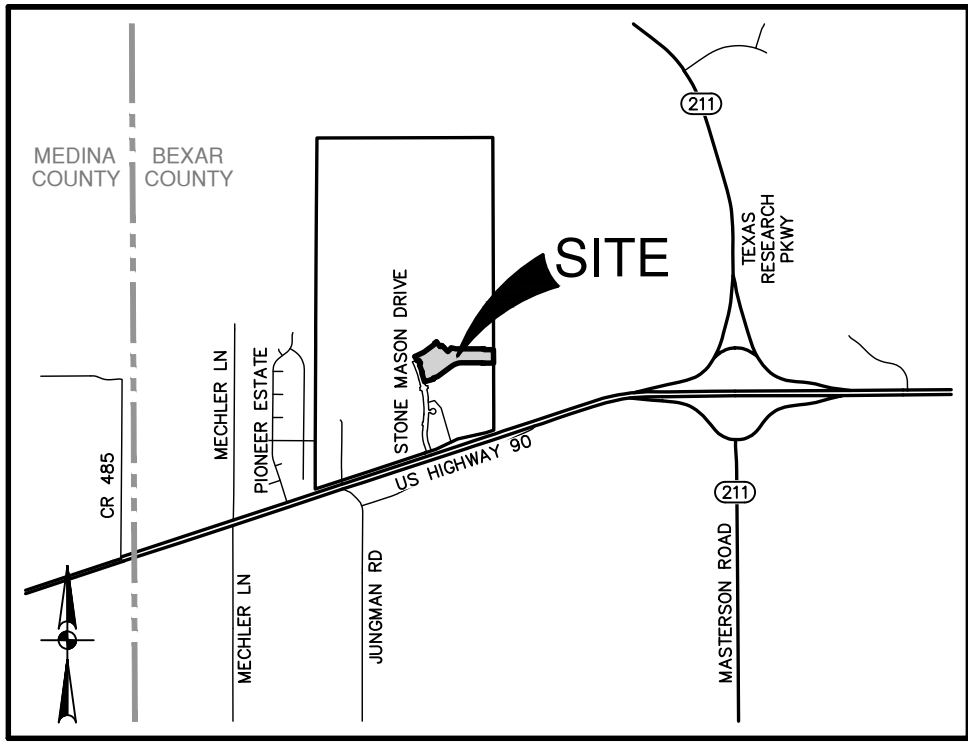
CUMBERLAND 90 LTD.
564.8 ACRE TRACT
VOL. 14348, PGS.
1999-2005 O.P.R.)

CUMBERLAND 90 LTD.
564.8 ACRE TRACT
VOL. 14348, PGS.
1999-2005 O.P.R.)

CUMBERLAND 90 LTD.
564.8 ACRE TRACT
VOL. 14348, PGS.
1999-2005 O.P.R.)

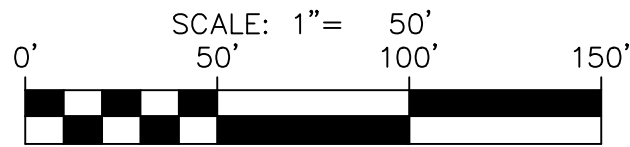
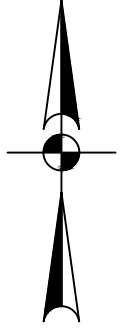
KEY LEGEND:

- (A) 10' ELEC, GAS, TELE, & CATV EASEMENT
- (F) 25' SANITARY SEWER EASEMENT TO EXPIRE UPON INCORPORATION INTO PLATTED PUBLIC STREET RIGHT-OF-WAY (1.127 ACRE, OFF-LOT, PERMEABLE)
- (G) 50'x20' DRAINAGE, ACCESS, SEWER AND UTILITY EASEMENT INCORPORATION INTO PLATTED PUBLIC STREET RIGHT-OF-WAY (OFF-LOT)
- (I) 18' DRAINAGE EASEMENT
- (J) 15' ELEC, GAS, TELE, & CATV EASEMENT
- (K) 5' WATER EASEMENT
- (L) VARIABLE WIDTH DRAINAGE, GRADING, AND ACCESS EASEMENT (OFF-LOT)

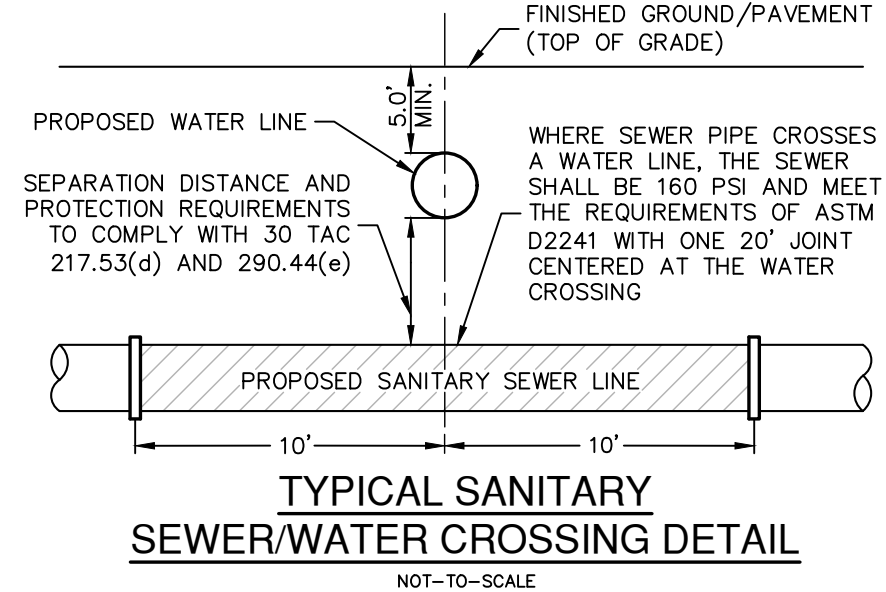
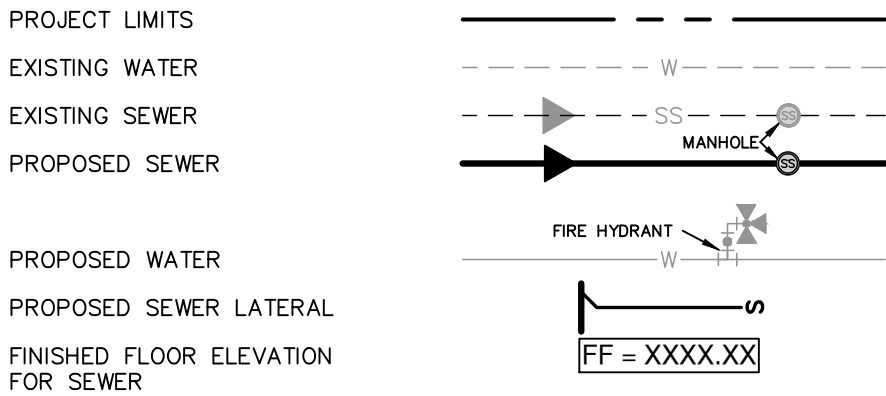


LOCATION MAP

NOT-TO-SCALE



SEWER LEGEND



CAUTION!!

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

FINISHED FLOOR NOTES:

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

ROW PERMIT NOTE:

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

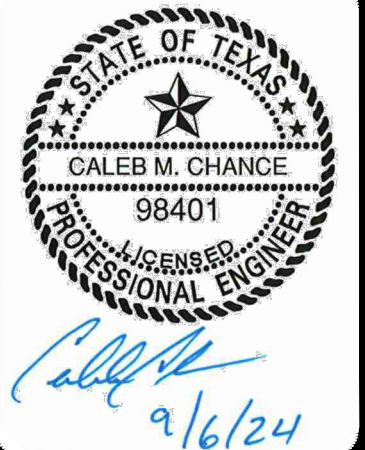
TRENCH EXCAVATION SAFETY PROTECTION:

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

SEWER: (DOS RIOS WRC)

DEVELOPER'S NAME: CONTINENTAL HOMES OF TEXAS, L.P.			
ADDRESS: 5419 N LOOP 1604 E			
CITY: SAN ANTONIO	STATE: TEXAS	ZIP: 78247	
PHONE# (210) 496-2668	FAX# (210) 496-2668		
SAWS BLOCK MAP# 068562 TOTAL EDU'S .92 TOTAL ACREAGE 11.135			
TOTAL LINEAR FOOTAGE OF PIPE: 8" ~ 4,441 PLAT NO. 24-11800201			
NUMBER OF LOTS .92 SAWS JOB NO. 24-1565			

NO.	REVISION	DATE



PAPE-DAWSON
ENGINEERS

2000 NW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000
TEXAS ENGINEERING FIRM #470 | TEXAS SURVEYING FIRM #10028000

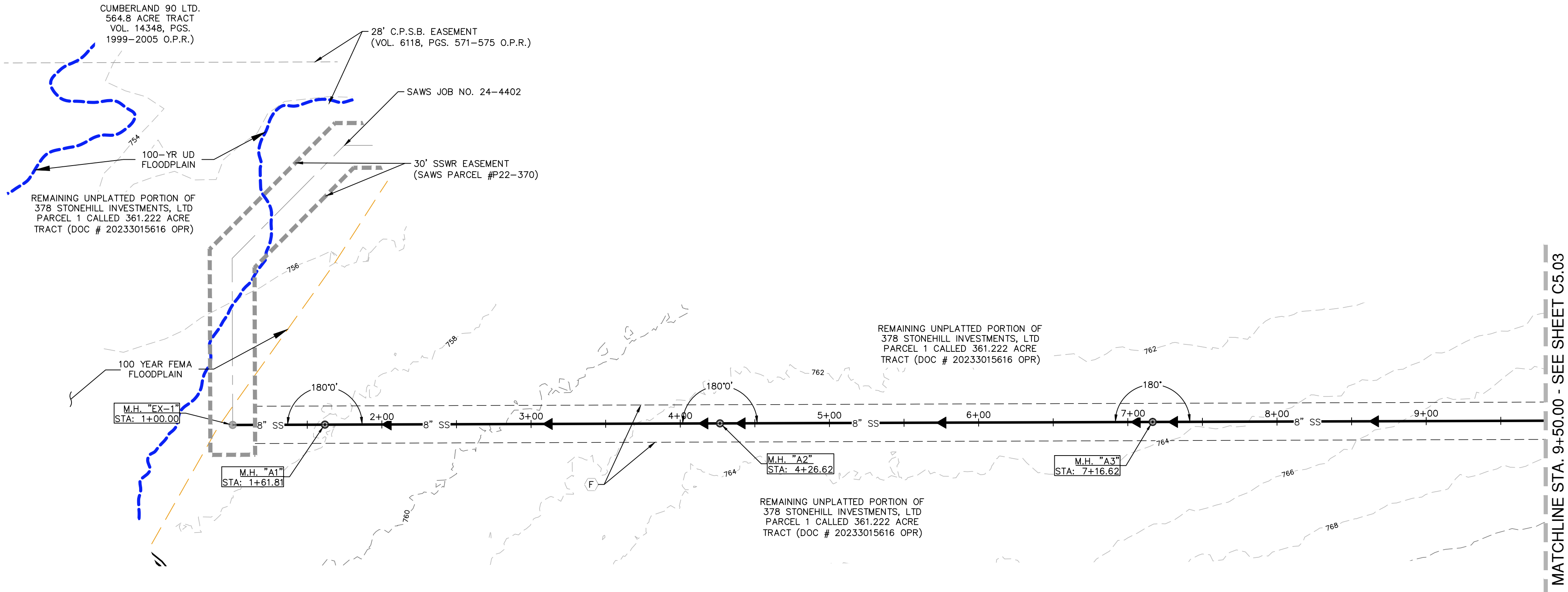
STONEHILL, UNIT-4A
SAN ANTONIO, TEXAS

OVERALL SANITARY SEWER PLAN

PLAT NO.	24-11800201
JOB NO.	12456-16
DATE	MAY 2024
DESIGNER	CB
CHECKED	BL
DRAWN	JF
SHEET	C5.01

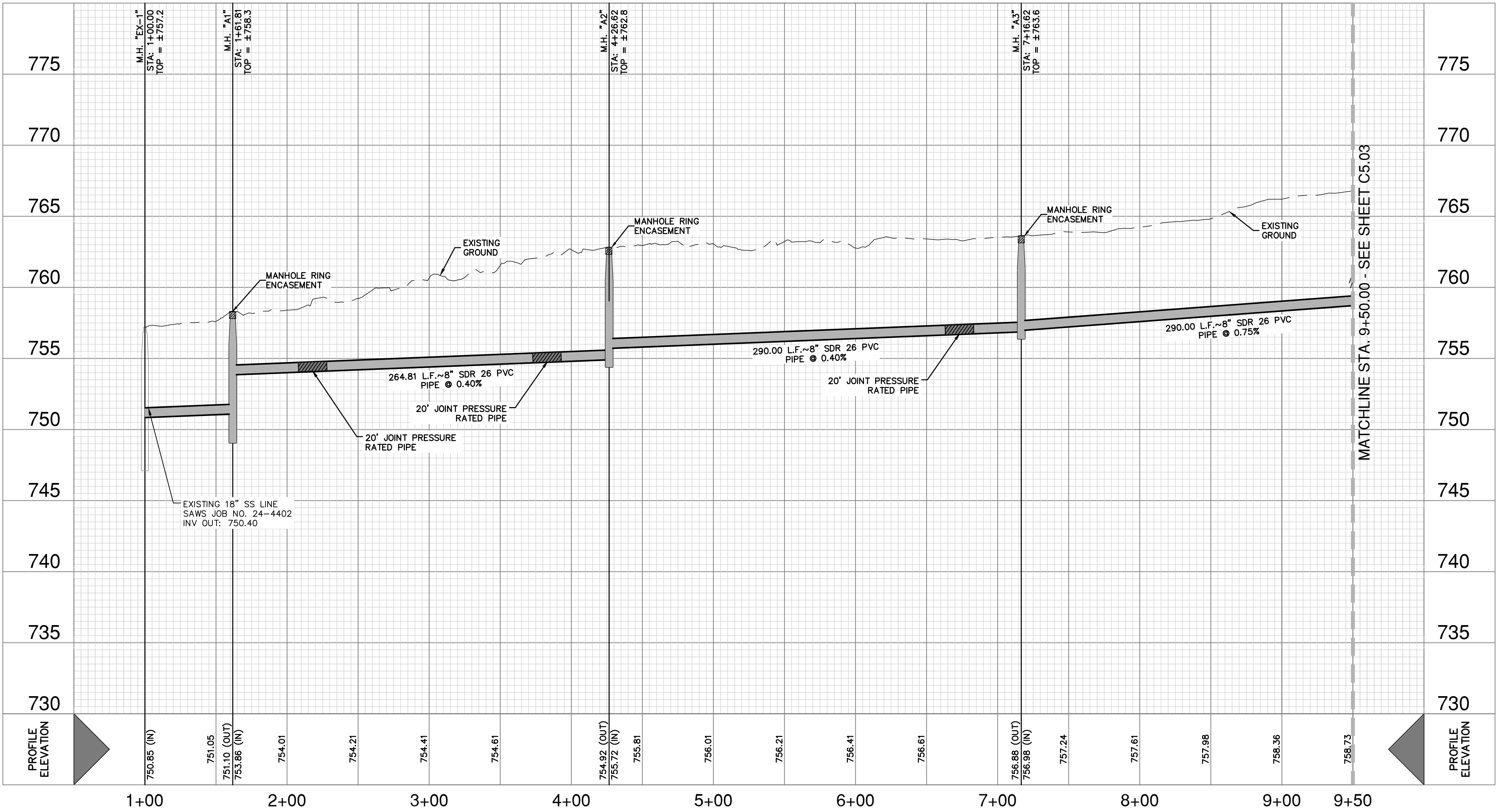
Date: September 6, 2024, 4:09 PM - User ID: colaruez
File: P:\12456\16_Design\Civil\SSA1-1245616.dwg

THIS 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, CARPOOL, Digital Globe, Texas Orthology Program, USDA Farm Service Agency.

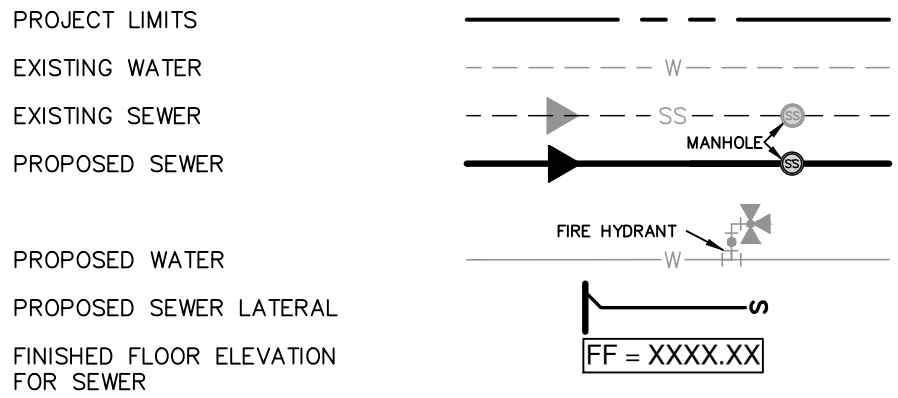


SANITARY SEWER LINE "A"
STA. 1+00.00 TO STA. 9+50.00

VERTICAL SCALE: 1" = 5'
HORIZONTAL SCALE: 1" = 50'

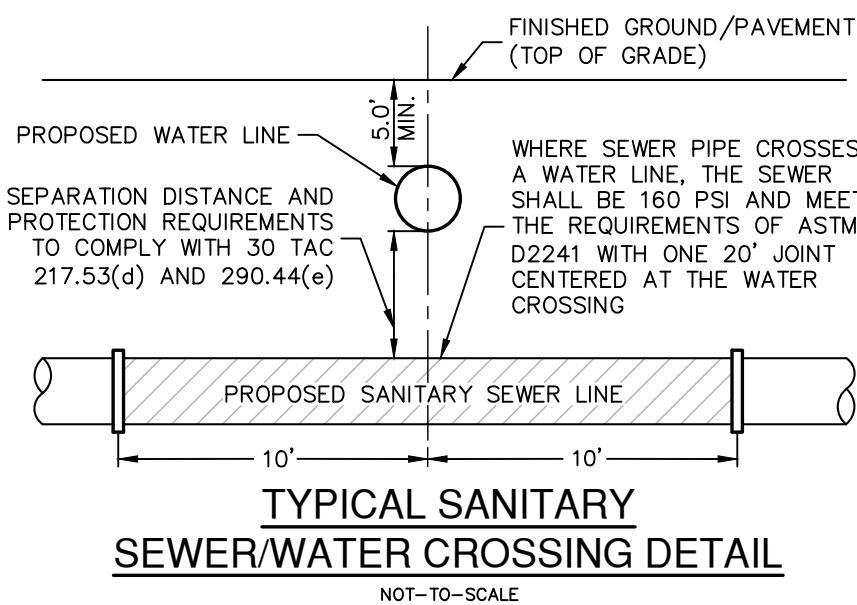


SEWER LEGEND



KEY LEGEND:

25' SANITARY SEWER EASEMENT TO EXPIRE
UPON INCORPORATION INTO PLATTED PUBLIC
STREET RIGHT-OF-WAY AND 900
LOTS.(OFF-LOT)



CAUTION!!

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

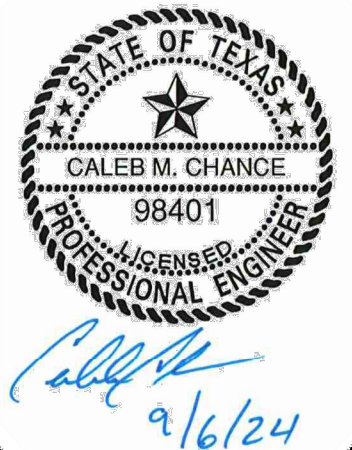
TRENCH EXCAVATION SAFETY PROTECTION:

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

SEWER: (DOS RIOS WRC)

DEVELOPER'S NAME: CONTINENTAL HOMES OF TEXAS, L.P.			
ADDRESS: 5419 N LOOP 1604 E			
CITY: SAN ANTONIO	STATE: TEXAS	ZIP: 78247	
PHONE# (210) 496-2668	FAX# (210) 496-2668		
SAWS BLOCK MAP# 068562, TOTAL EDU'S .92, TOTAL ACREAGE 11.135			
TOTAL LINEAR FOOTAGE OF PIPE: 8" ~ 4,441, PLAT NO. 24-11800201			
NUMBER OF LOTS .92, SAWS JOB NO. 24-1565			

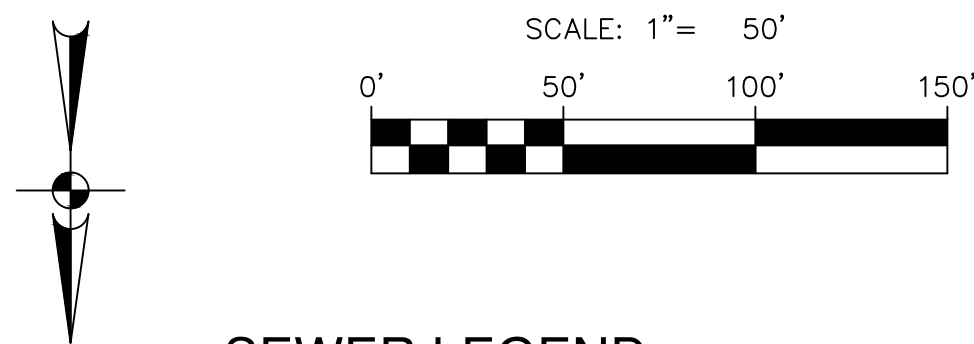
NO.	REVISION	DATE



PAPE-DAWSON ENGINEERS
2000 NW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000
TEXAS ENGINEERING FIRM #470 | TEXAS SURVEYING FIRM #1008800

STONEHILL, UNIT-4A
SAN ANTONIO, TEXAS
SANITARY SEWER PLAN & PROFILE (LINE A)
STA. 1+00.00 TO STA. 9+50.00

PLAT NO.	24-11800201
JOB NO.	12456-16
DATE	MAY 2024
DESIGNER	CB
CHECKED	BL
DRAWN	JF
SHEET	C5.02



PROJECT LIMITS

EXISTING WATER

EXISTING SEWER

PROPOSED SEWER

MANHOLE

PROPOSED WATER

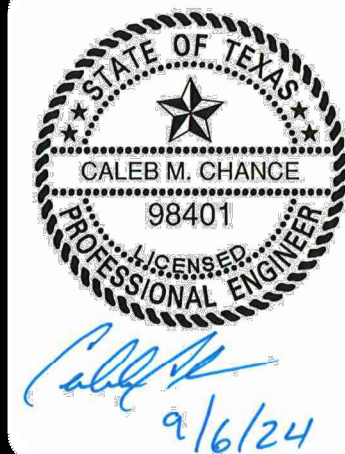
PROPOSED SEWER LATERAL

FINISHED FLOOR ELEVATION
FOR SEWER

FF = XXXX.XX

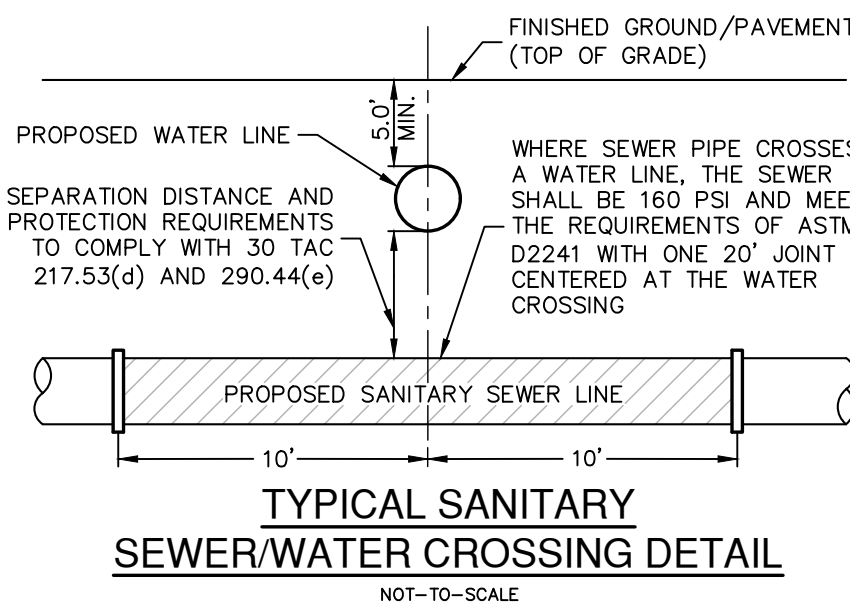
KEY LEGEND:

(F) 25' SANITARY SEWER EASEMENT TO EXPIRE
UPON INCORPORATION INTO PLATTED PUBLIC
STREET RIGHT-OF-WAY AND 900
LOTS.(OFF-LOT)



**PAPE-DAWSON
ENGINEERS**

2000 NW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000
TEXAS ENGINEERING FIRM #470 | TEXAS SURVEYING FIRM #10028800



CAUTION!!

CONTRACTOR SHALL BE REQUIRED TO LOCATE ALL PUBLIC OR PRIVATE UTILITIES INCLUDING BUT NOT LIMITING TO: WATER, SEWER, TELEPHONE AND CABLE TELEVISION, GAS, FIBER OPTIC LINES, SITE LIGHTING ELECTRIC, SECONDARY ELECTRIC, PRIMARY ELECTRIC, 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-ITESS A MINIMUM OF 48 HOURS PRIOR TO THE START OF ANY EXCAVATION OR EXISTING UTILITIES SHOWN ON THE PLANS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPAIR SHALL BE THE CONTRACTOR'S SOLE EXPENSE WHETHER THE UTILITY IS SHOWN ON THESE PLANS OR NOT.

TRENCH EXCAVATION SAFETY PROTECTION

CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR STRUCTURAL DESIGN/ GEOTECHNICAL/ SAFETY/EQUIPMENT CONSULTANT SHALL REVIEW AND APPROVE ALL TRENCH EXCAVATION PLANS AND ALL SUCH INFORMATION, SHALL REVIEW THESE PLANS AND ANY AVAILABLE GEOTECHNICAL INFORMATION AND THE ANTICIPATED INSTALLATION SITES WITHIN THE PROJECT AREA AND THE TRENCH EXCAVATION SITES, AND THE TRENCH EXCAVATION SAFETY PROTECTION SYSTEMS, PROGRAMS AND/OR PROCEDURES FOR THE PROJECT DESCRIBED IN THE CONTRACT DOCUMENTS. THE CONTRACTOR'S IMPLEMENTATION OF THESE SYSTEMS, PROGRAMS AND/OR PROCEDURES SHALL PROVIDE FOR ADEQUATE TRENCH EXCAVATION SAFETY PROTECTION SYSTEMS, PROGRAMS AND/OR PROCEDURES FOR ALL TRENCH EXCAVATIONS. SPECIFICALLY, CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR SAFETY CONSULTANT SHALL IMPLEMENT A TRENCH SAFETY PROGRAM AND PROCEDURES TO PROTECT INDIVIDUALS WORKING IN AND AROUND TRENCH EXCAVATION.

EWER: (DOS RIOS WRC)

DEVELOPER'S NAME: CONTINENTAL HOMES OF TEXAS, L.P.
ADDRESS: 5419 N LOOP 1604 E
CITY: SAN ANTONIO STATE: TEXAS ZIP: 78247
PHONE# (210) 496-2668 FAX# (210) 496-2668
SAWS BLOCK MAP# 068562 TOTAL EDU'S 4.41 TOTAL ACREAGE 11.13
TOTAL LINEAR FOOTAGE OF PIPE: 8" ~ 922 PLAT NO 24-1180020 ACRES
NUMBER OF LOTS 92 SAWS JOB NO. 24-1565

STONEHILL, UNIT-4A
SAN ANTONIO, TEXAS

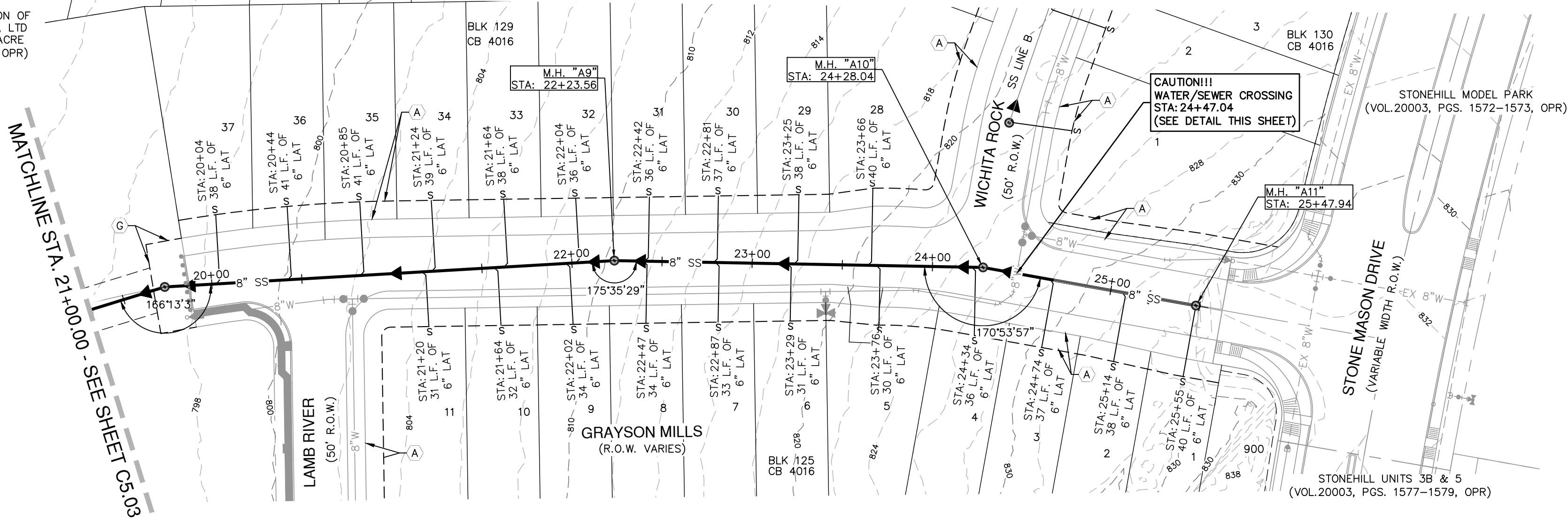
SANITARY SEWER PLAN & PROFILE (LINE A)
STA. 9+50.00 TO STA. 19+00.00

PLAT NO. 24-1180020
JOB NO. 12456-16
DATE MAY 2024
DESIGNER CB
CHECKED BL DRAWN JF
SHEET C5.03

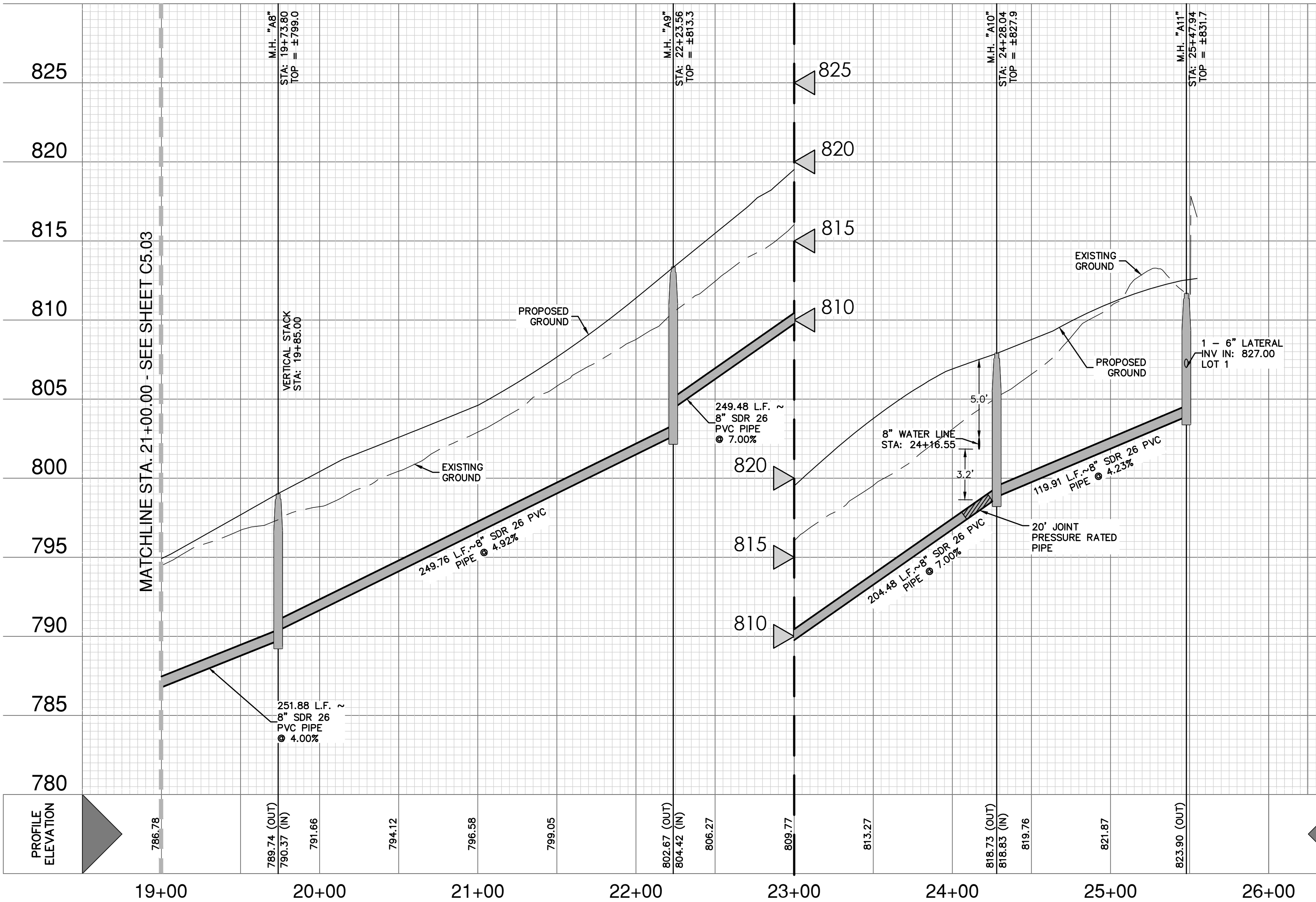
Date: August 14, 2024, 11:24 AM - User ID: rolvarez
File: P:\24\56\16\Design\Civil\SSA-1245616.dwg

THIS 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, CARPOOL/Digital Globe, Texas Orthology Program, USDA Farm Service Agency.

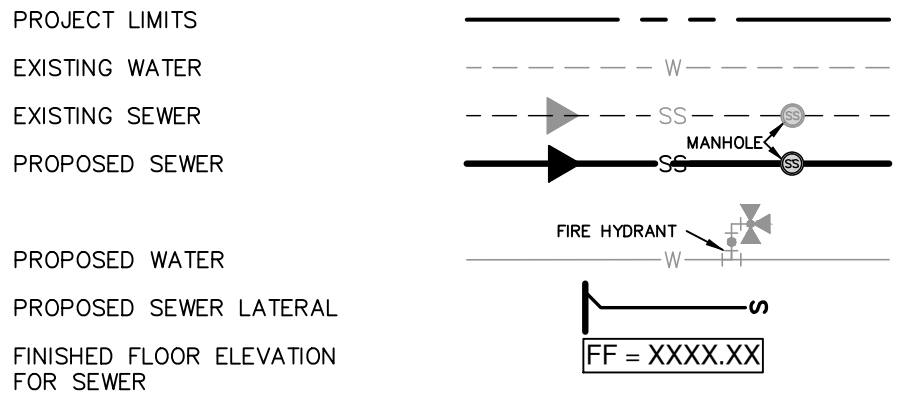
REMAINING UNPLATTED PORTION OF
378. STONEHILL INVESTMENTS, LTD
PARCEL 1 CALLED 361.222 ACRE
TRACT (DOC # 20233015616 OPR)



SANITARY SEWER LINE "A"
STA. 21+00.00 TO END
VERTICAL SCALE: 1" = 5'
HORIZONTAL SCALE: 1" = 50'

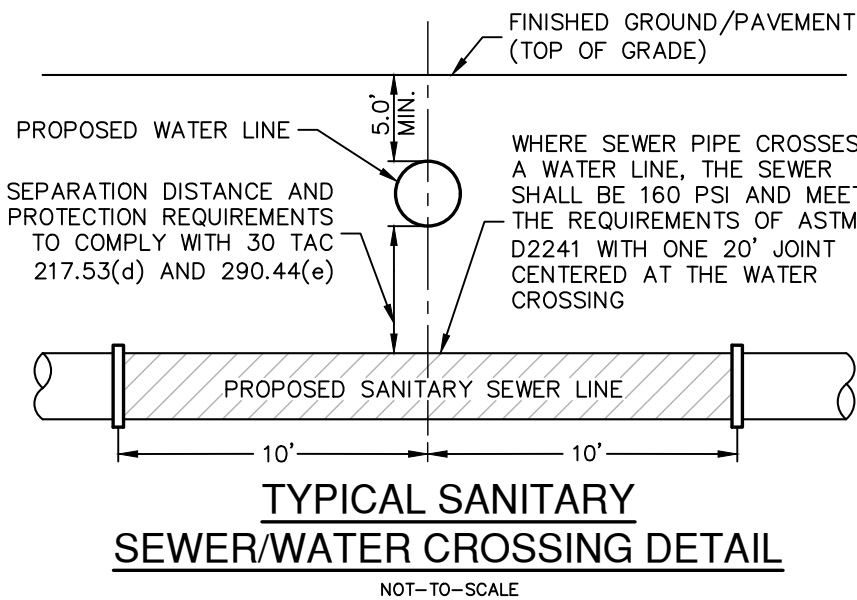


SEWER LEGEND



KEY LEGEND:

- A 10' ELEC, GAS, TELE, & CATV EASEMENT
- 50'x20' DRAINAGE, ACCESS, SEWER AND UTILITY EASEMENT INCORPORATION INTO PLATTED PUBLIC STREET RIGHT-OF-WAY (OFF-LOT)



CAUTION!!

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

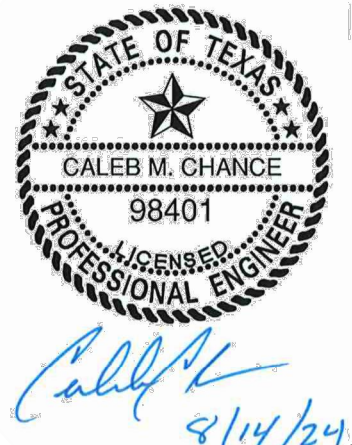
TRENCH EXCAVATION SAFETY PROTECTION:

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

SEWER: (DOS RIOS WRC)

DEVELOPER'S NAME: CONTINENTAL HOMES OF TEXAS, L.P.			
ADDRESS: 5419 N LOOP 1604 E			
CITY: SAN ANTONIO	STATE: TEXAS	ZIP: 78247	
PHONE# (210) 496-2668	FAX# (210) 496-2668		
SAWS BLOCK MAP# 068562 TOTAL EDU'S .92 TOTAL ACREAGE 11.135			
TOTAL LINEAR FOOTAGE OF PIPE: 8' ~ 4,441' PLAT NO. 24-11800201			
NUMBER OF LOTS .92 SAWS JOB NO. 24-1565			

NO.	REVISION	DATE



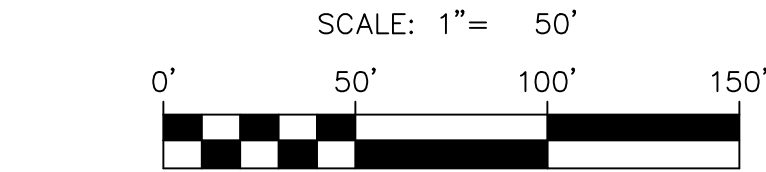
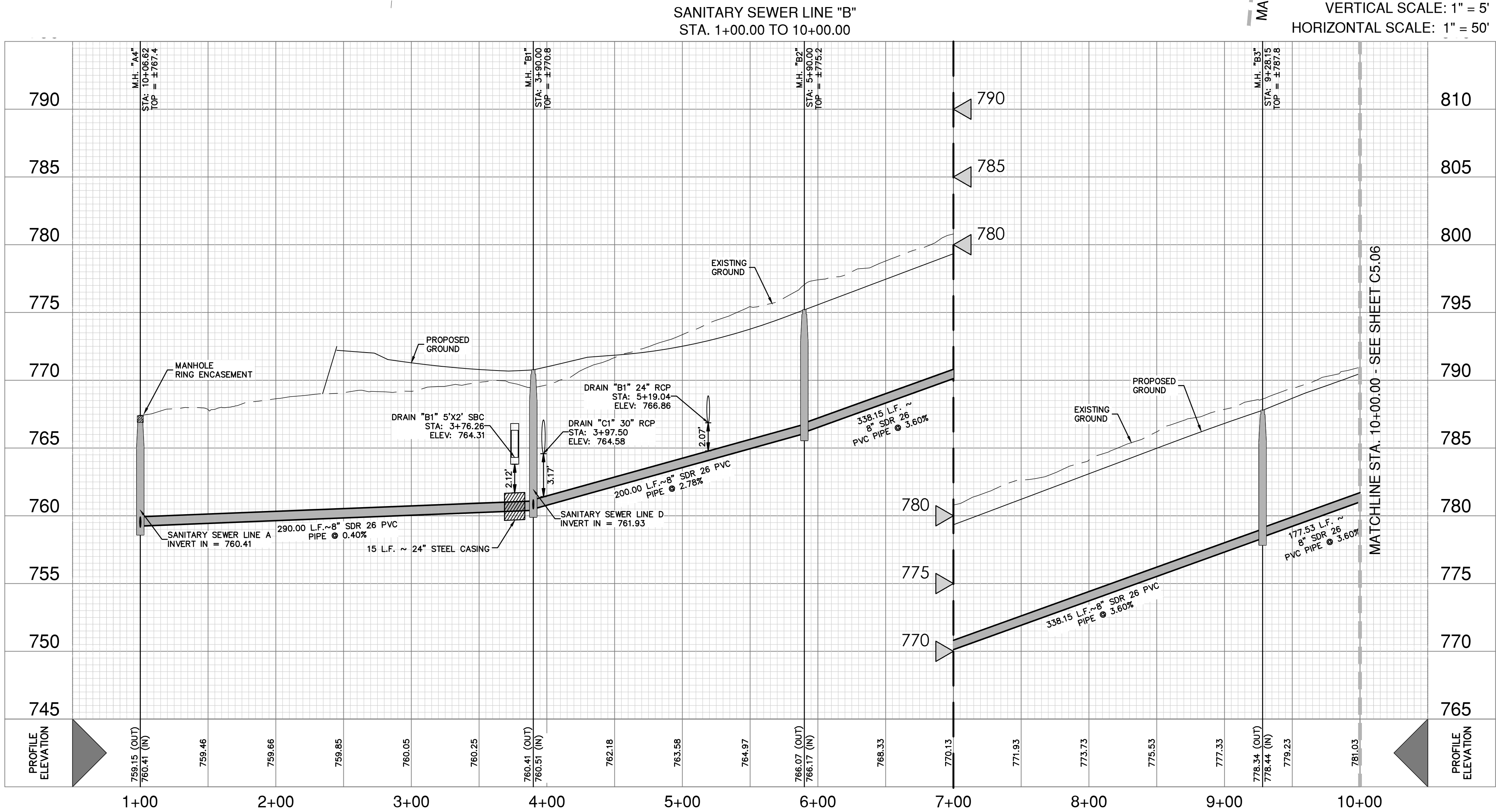
PAPE-DAWSON
ENGINEERS
2000 NW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000
TEXAS ENGINEERING FIRM #470 | TEXAS SURVEYING FIRM #1008800

STONEHILL, UNIT-4A
SAN ANTONIO, TEXAS
SANITARY SEWER PLAN & PROFILE (LINE A)
STA. 19+00.00 TO END

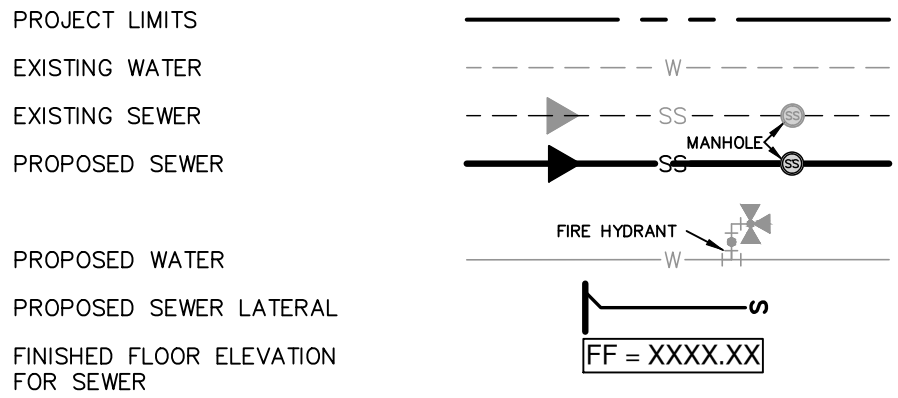
PLAT NO.	24-11800201
JOB NO.	12456-16
DATE	MAY 2024
DESIGNER	CB
CHECKED	BL
DRAWN	JF
SHEET	C5.04

Date: September 6, 2024, 4:10 PM -- User: ID: calvaroz
File: P:\12456\16\Design\Civil\SSA-1245616.dwg

THIS DOCUMENT HAS BEEN PRODUCED FROM MATERIAL THAT WAS STORED AND/OR TRANSMITTED ELECTRONICALLY AND MAY HAVE BEEN INADVERTENTLY ALTERED. RELY ONLY ON FINAL HARD COPY MATERIALS BEARING THE CONSULTANT'S ORIGINAL SIGNATURE AND SEAL. AERIAL IMAGERY PROVIDED BY GOOGLE/UNLESS OTHERWISE NOTED. Imagery © 2016, CARPOOL/Google, Texas Orthophotography Program, USDA Farm Service Agency.

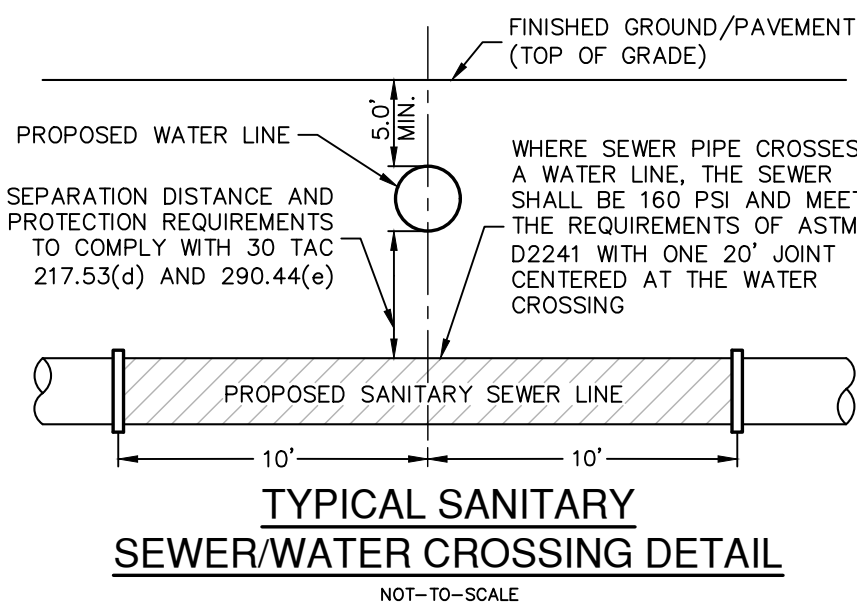


SEWER LEGEND



KEY LEGEND:

- (A) 10' ELEC, GAS, TELE, & CATV EASEMENT
(B) 25' SANITARY SEWER EASEMENT TO EXPIRE UPON INCORPORATION INTO PLATTED PUBLIC STREET RIGHT-OF-WAY AND 900 LOTS(OFF-LOT)
(C) 50'x20' DRAINAGE, ACCESS, SEWER AND UTILITY EASEMENT INCORPORATION INTO PLATTED PUBLIC STREET RIGHT-OF-WAY (OFF-LOT)
(D) 18' DRAINAGE & ACCESS EASEMENT
(E) 15' ELEC, GAS, TELE, & CATV EASEMENT
(F) 5' WATER EASEMENT



CAUTION!!

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

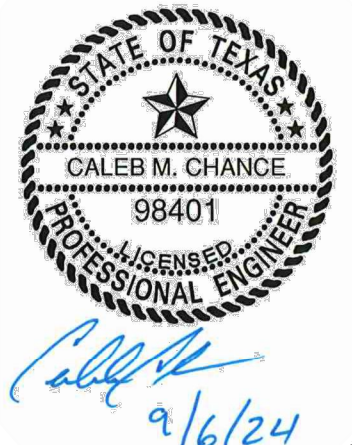
TRENCH EXCAVATION SAFETY PROTECTION:

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

SEWER: (DOS RIOS WRC)

DEVELOPER'S NAME: CONTINENTAL HOMES OF TEXAS, L.P.			
ADDRESS: 5419 N LOOP 1604 E			
CITY: SAN ANTONIO	STATE: TEXAS	ZIP: 78247	
PHONE# (210) 496-2668	FAX# (210) 496-2668		
SAWS BLOCK MAP# 068562 TOTAL EDU'S .92 TOTAL ACREAGE 11.135			
TOTAL LINEAR FOOTAGE OF PIPE: 8" ~ 4,441 PLAT NO. 24-11800201			
NUMBER OF LOTS .92 SAWS JOB NO. 24-1565			

NO.	REVISION	DATE



PAPE-DAWSON ENGINEERS

2000 NW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000
TEXAS ENGINEERING FIRM #470 | TEXAS SURVEYING FIRM #1008800

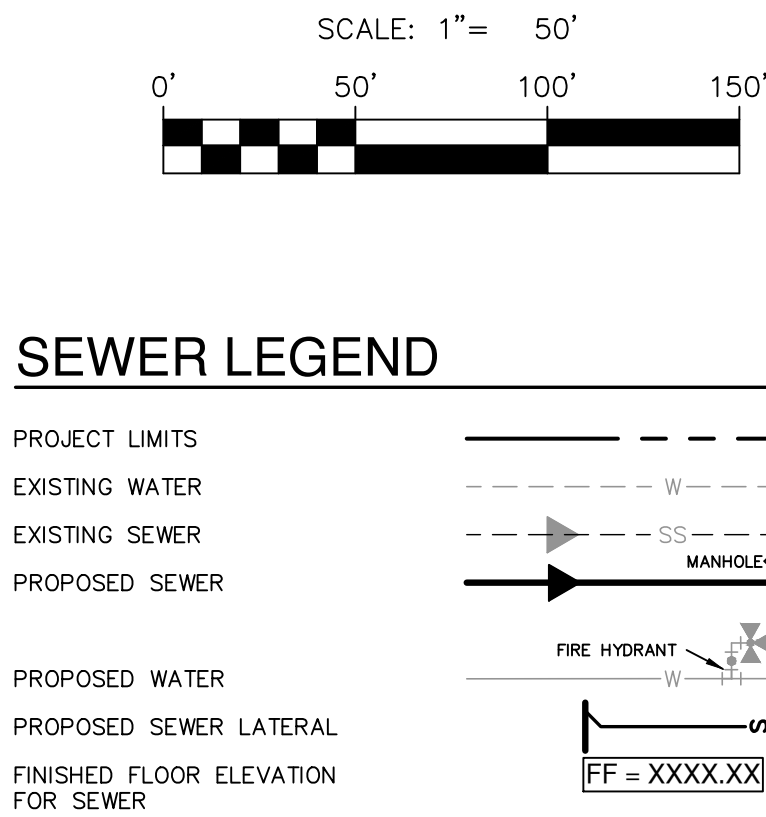
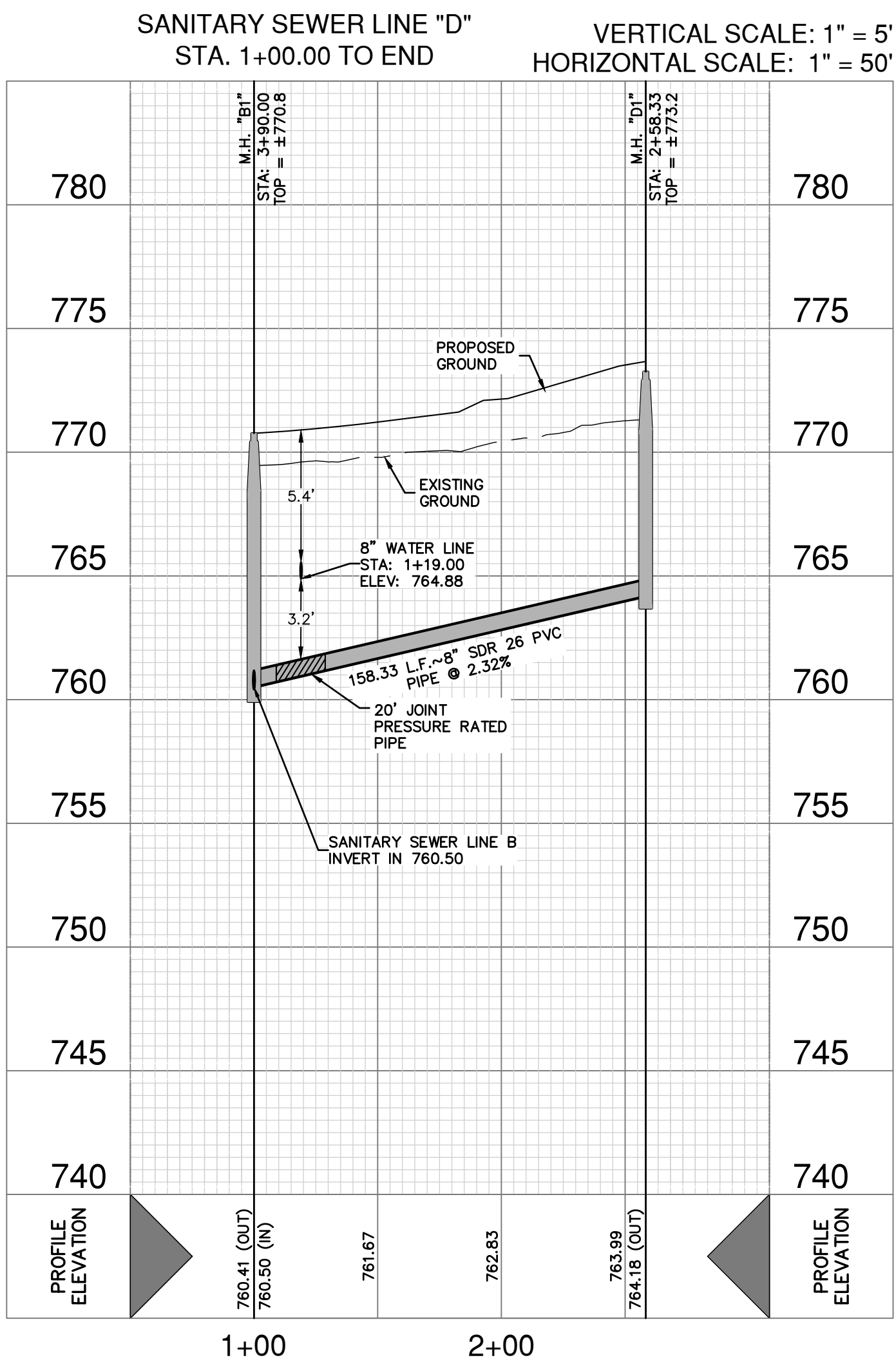
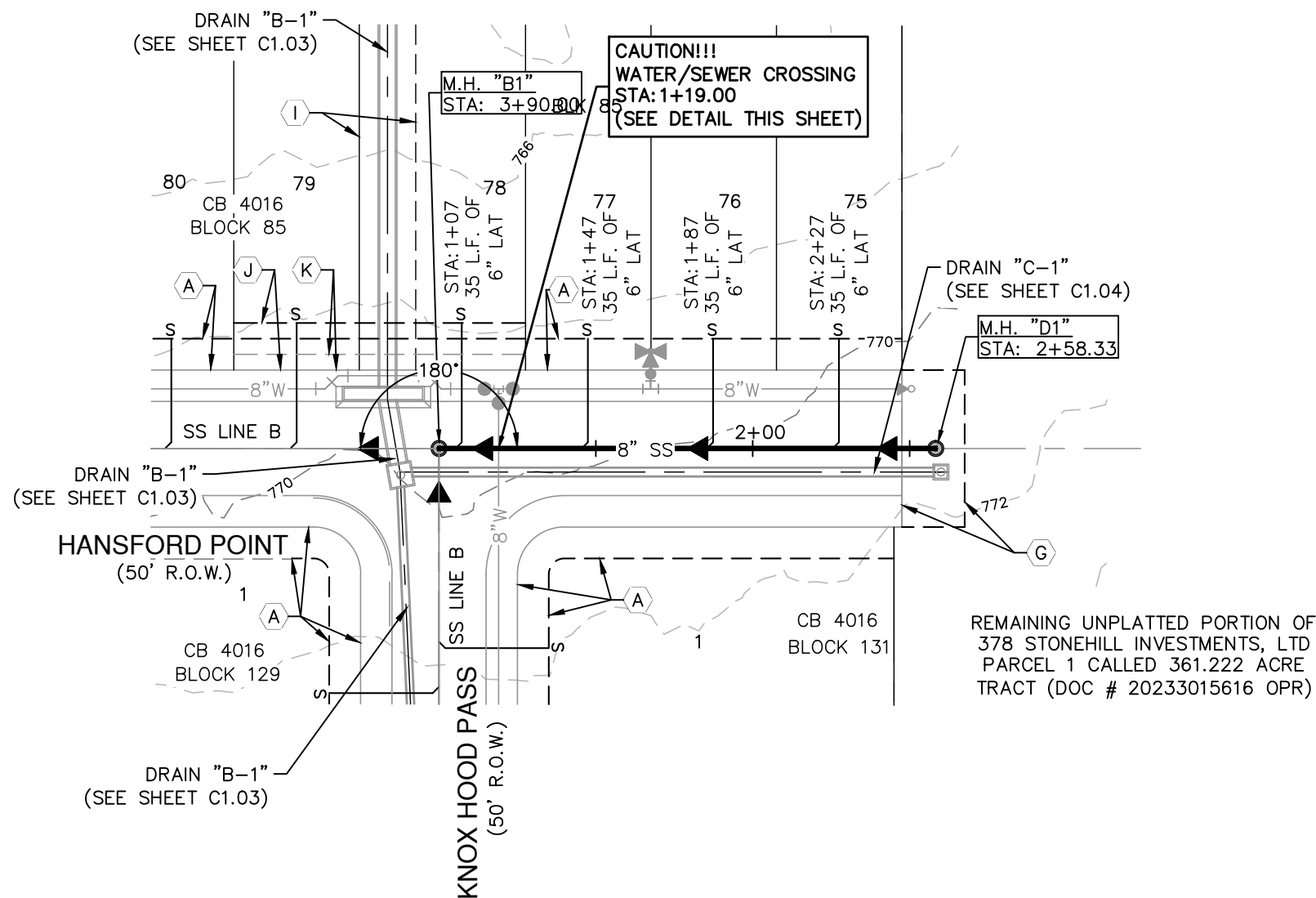
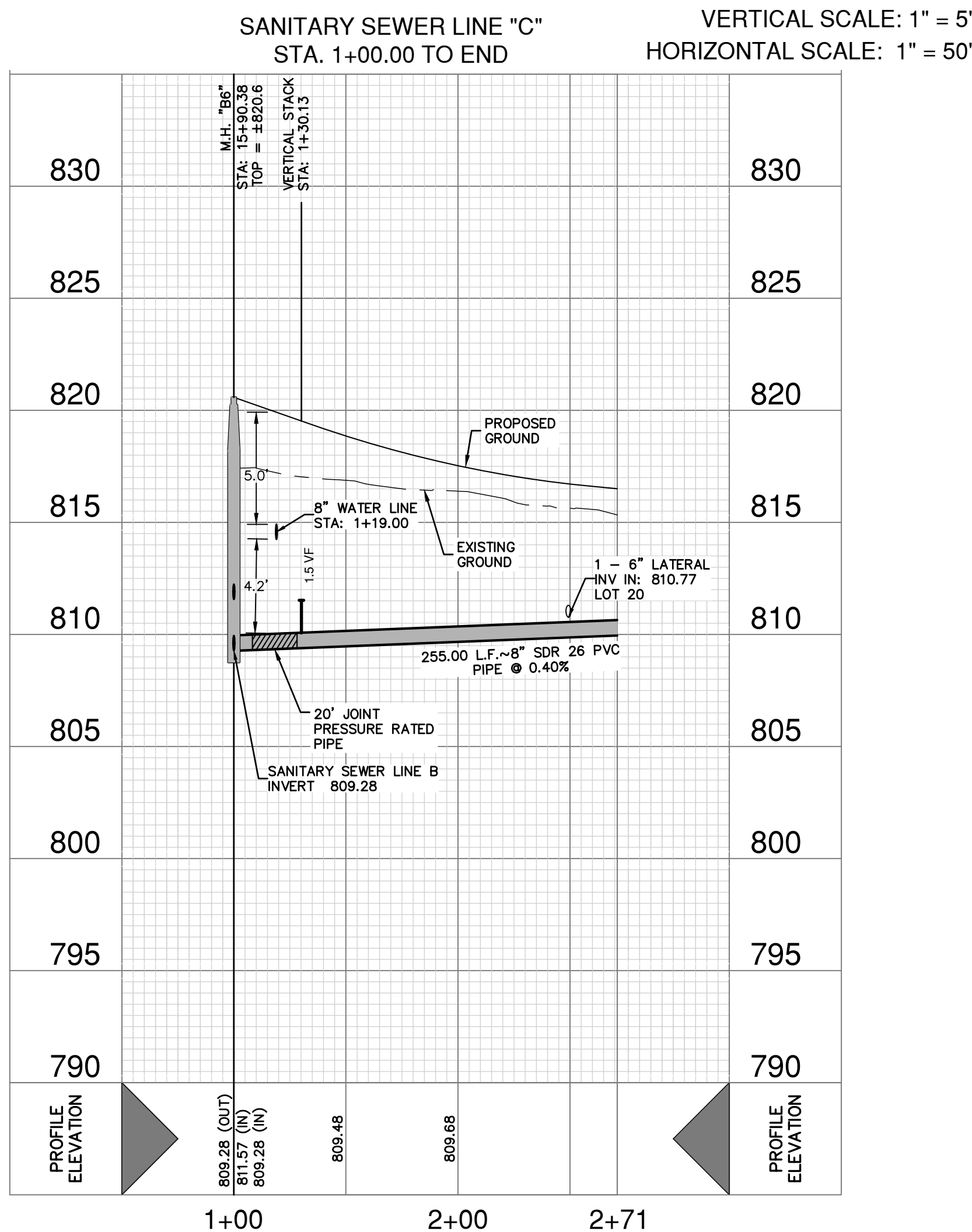
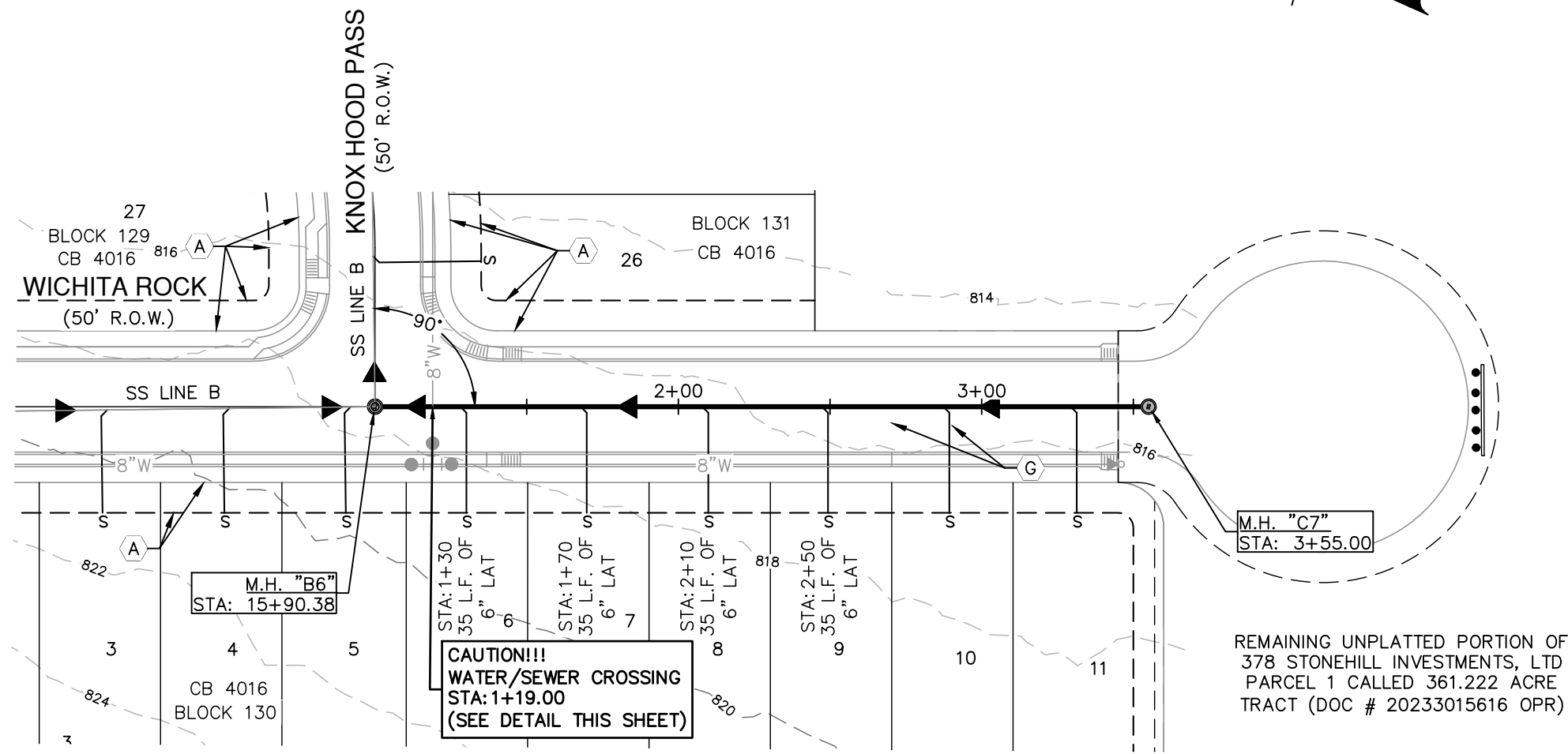
STONEHILL, UNIT-4A
SAN ANTONIO, TEXAS

SANITARY SEWER PLAN & PROFILE (LINE B)
LINE B ~ STA. 1+00.00 TO STA. 10+00.00

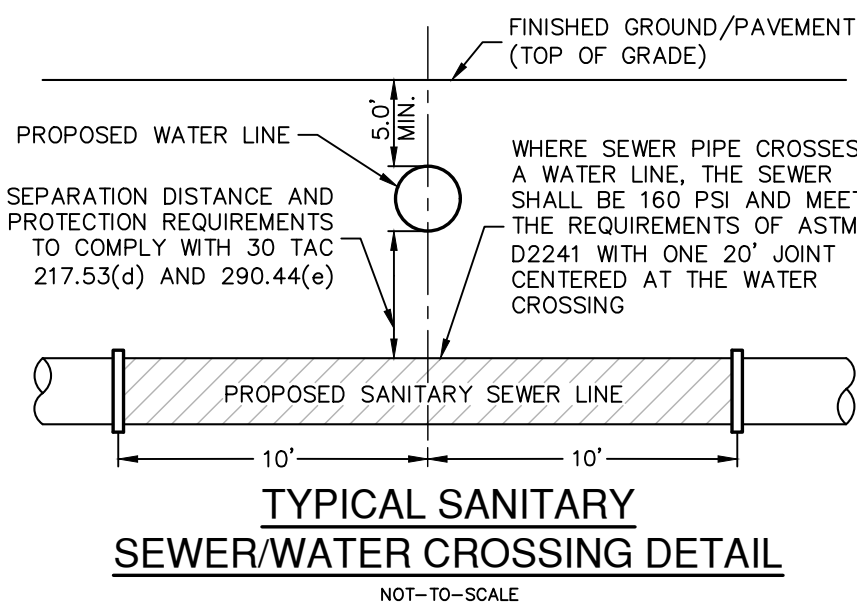
PLAT NO.	24-11800201
JOB NO.	12456-16
DATE	MAY 2024
DESIGNER	CB
CHECKED	BL
DRAWN	JF
SHEET	C5.05

Date: August 14, 2024, 11:25 AM - User: JD - rolvarez
File: P:\12456\12456\Design\Civil\SSA-1245616.dwg

THIS 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, CARPOOL2D, Digital Globe, Texas Orthoimagery Program, USDA Farm Service Agency.



- KEY LEGEND:**
- A 10' ELEC, GAS, TELE, & CATV EASEMENT
 - 50'x20' DRAINAGE, ACCESS, SEWER AND UTILITY EASEMENT INCORPORATION INTO PLATTED PUBLIC STREET RIGHT-OF-WAY (OFF-LOT)
 - 18' DRAINAGE & ACCESS EASEMENT
 - 15' ELEC, GAS, TELE, & CATV EASEMENT
 - 5' WATER EASEMENT



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

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

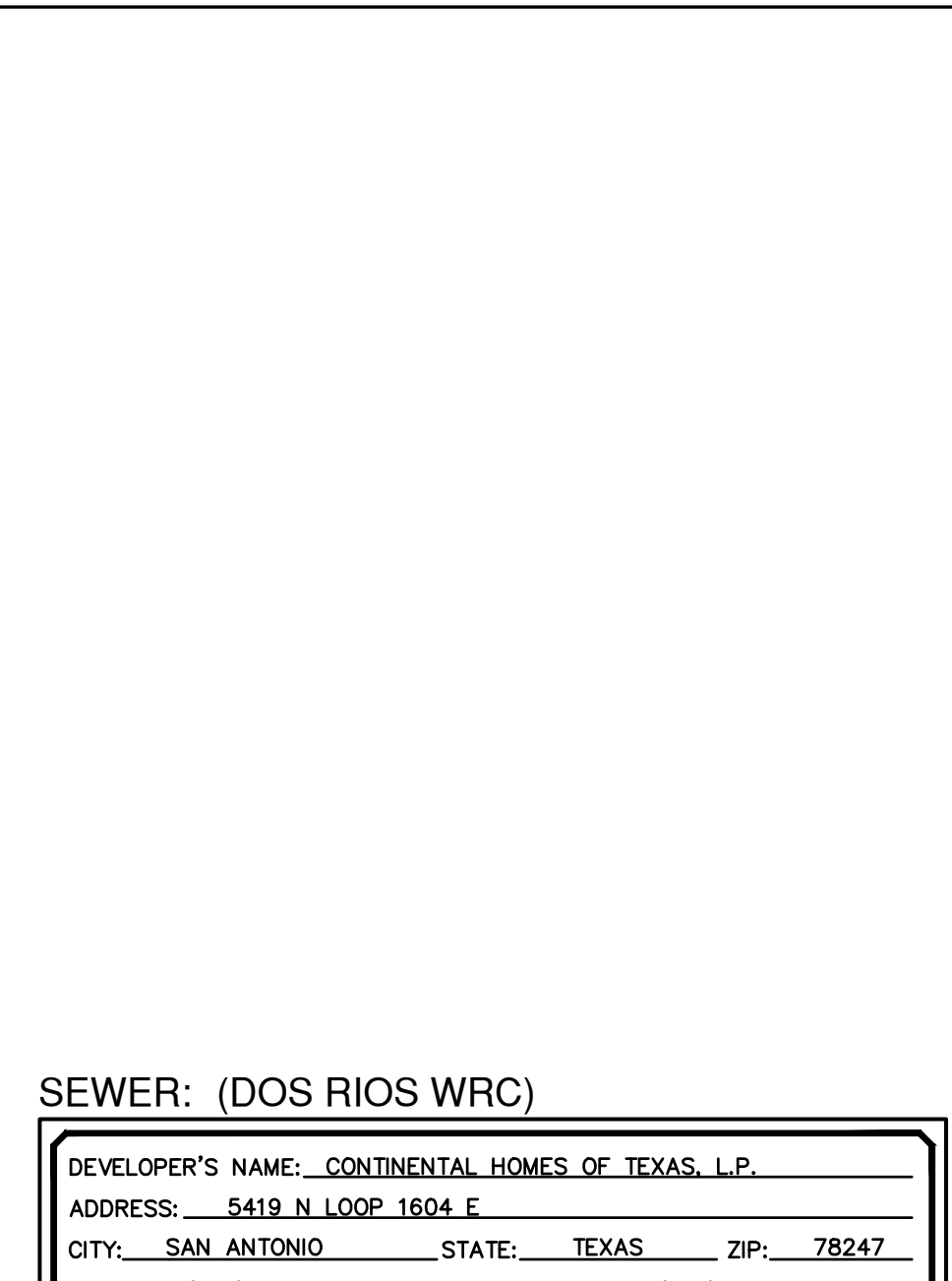
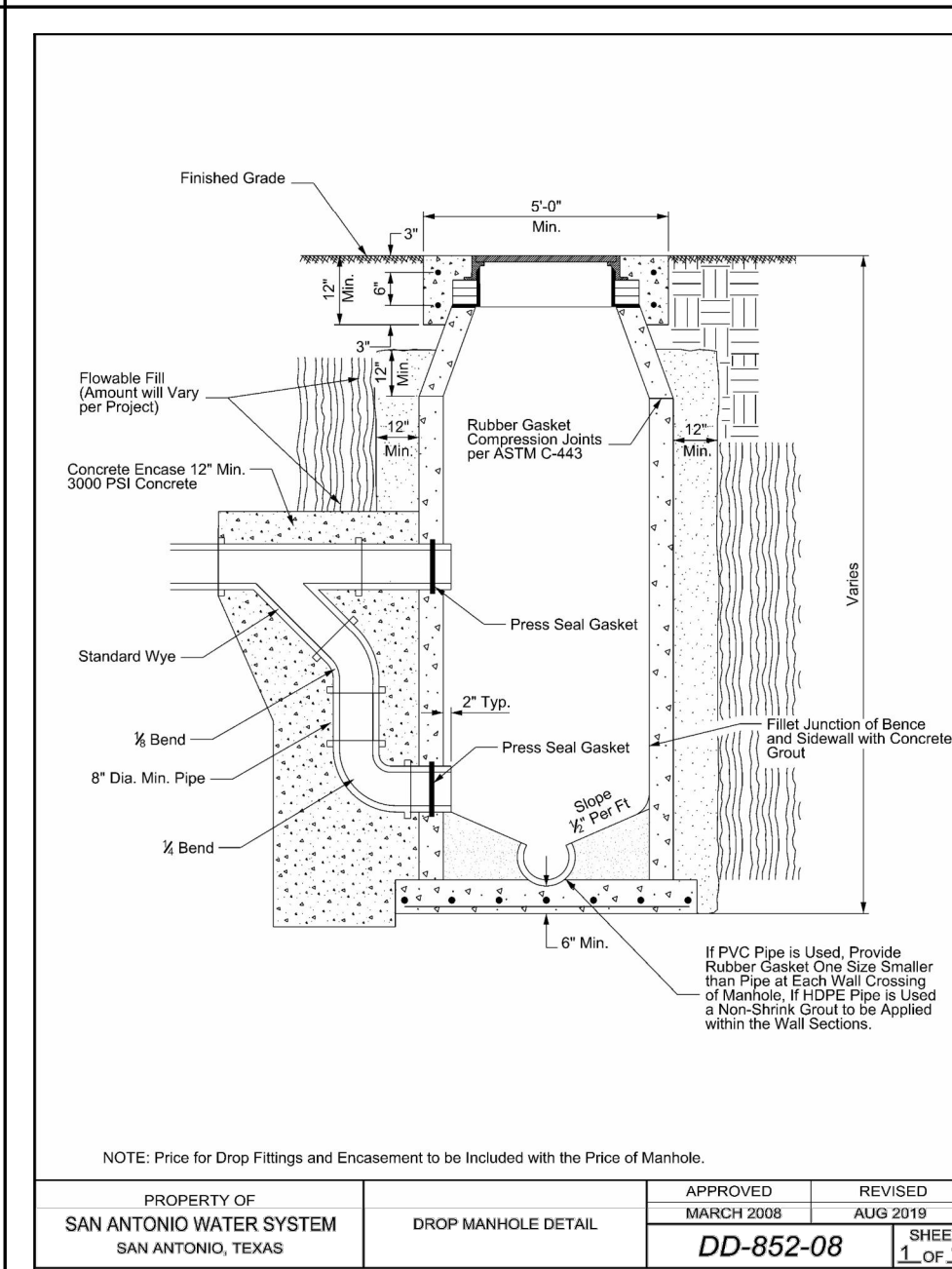
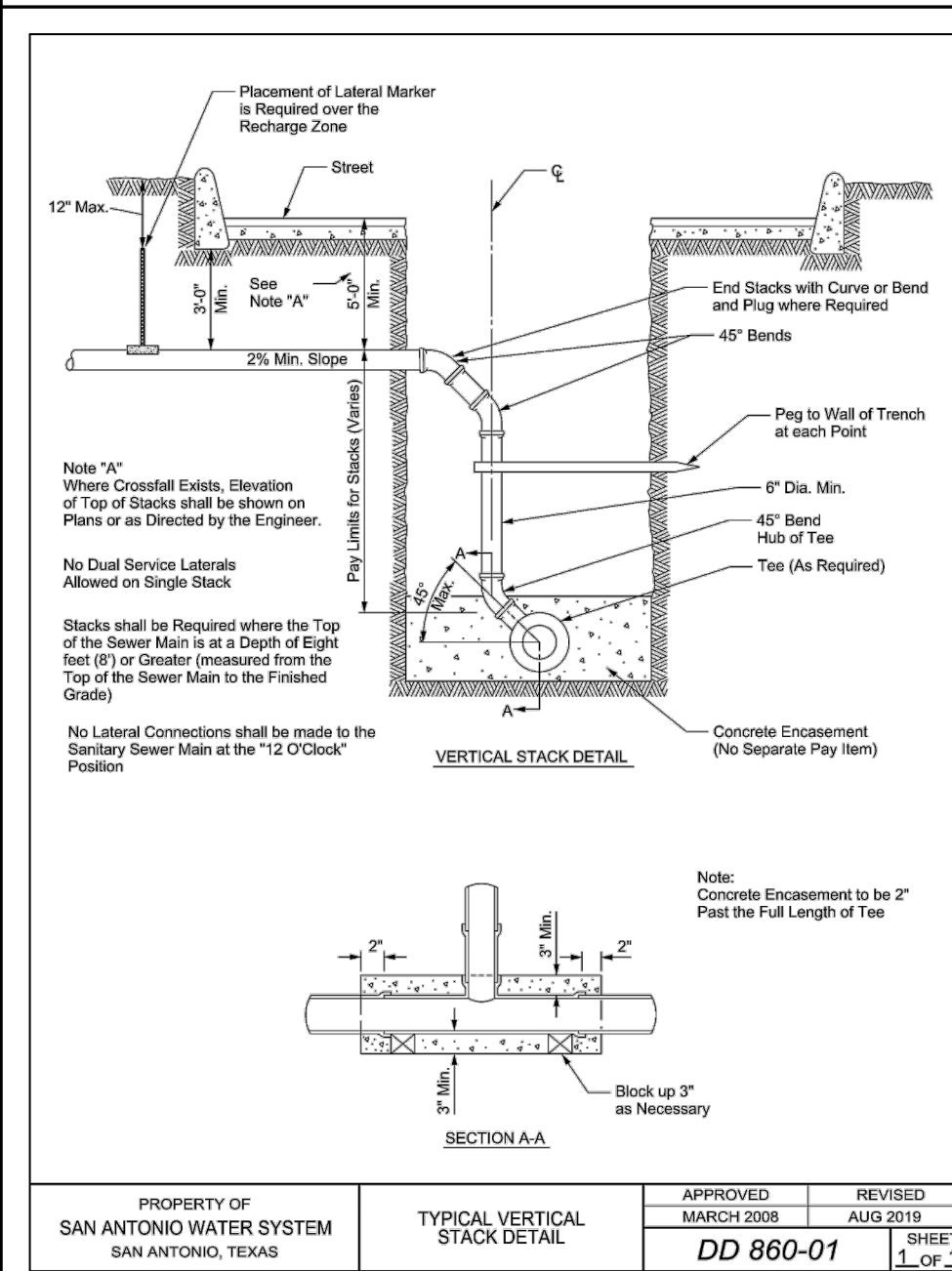
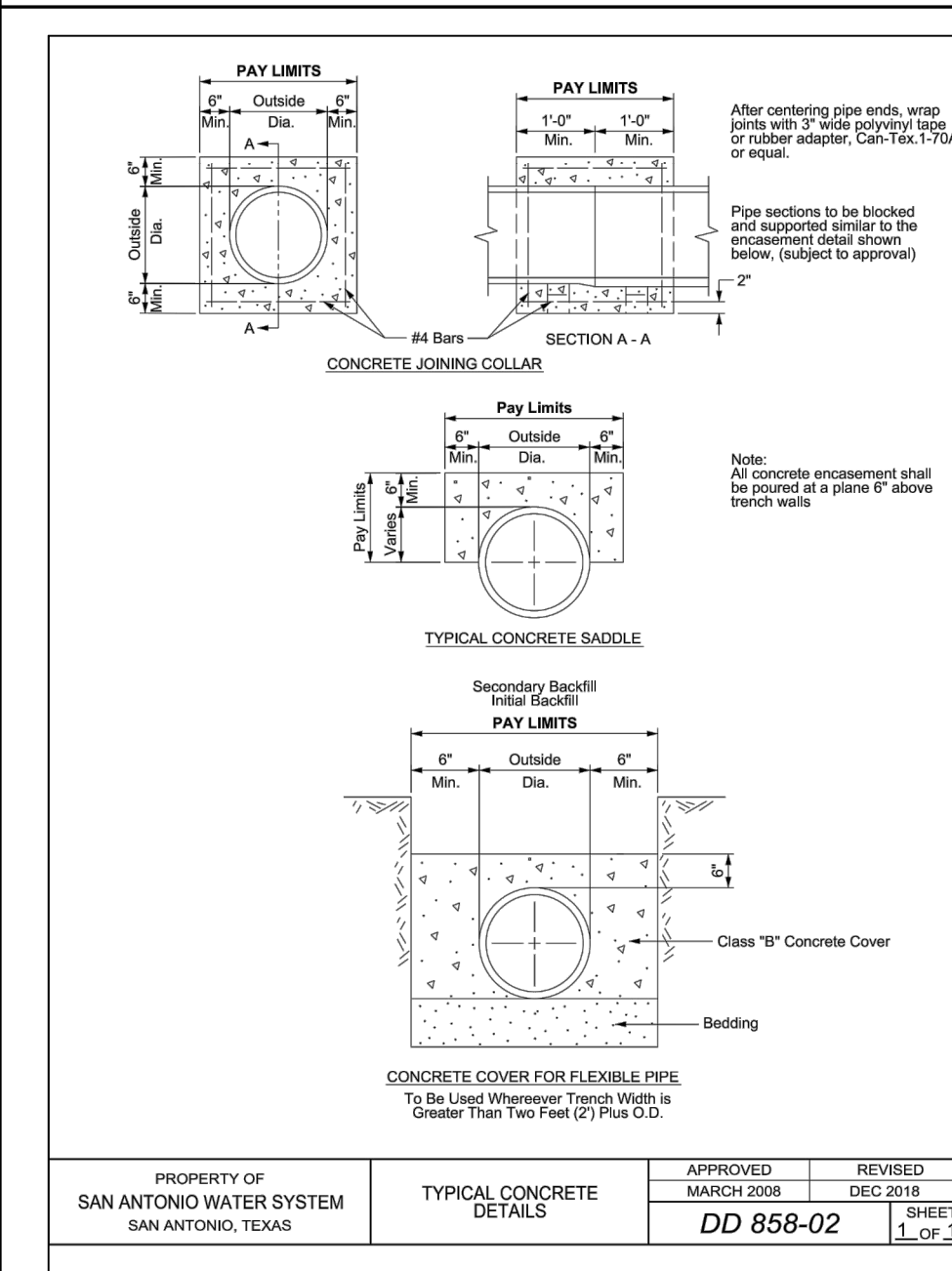
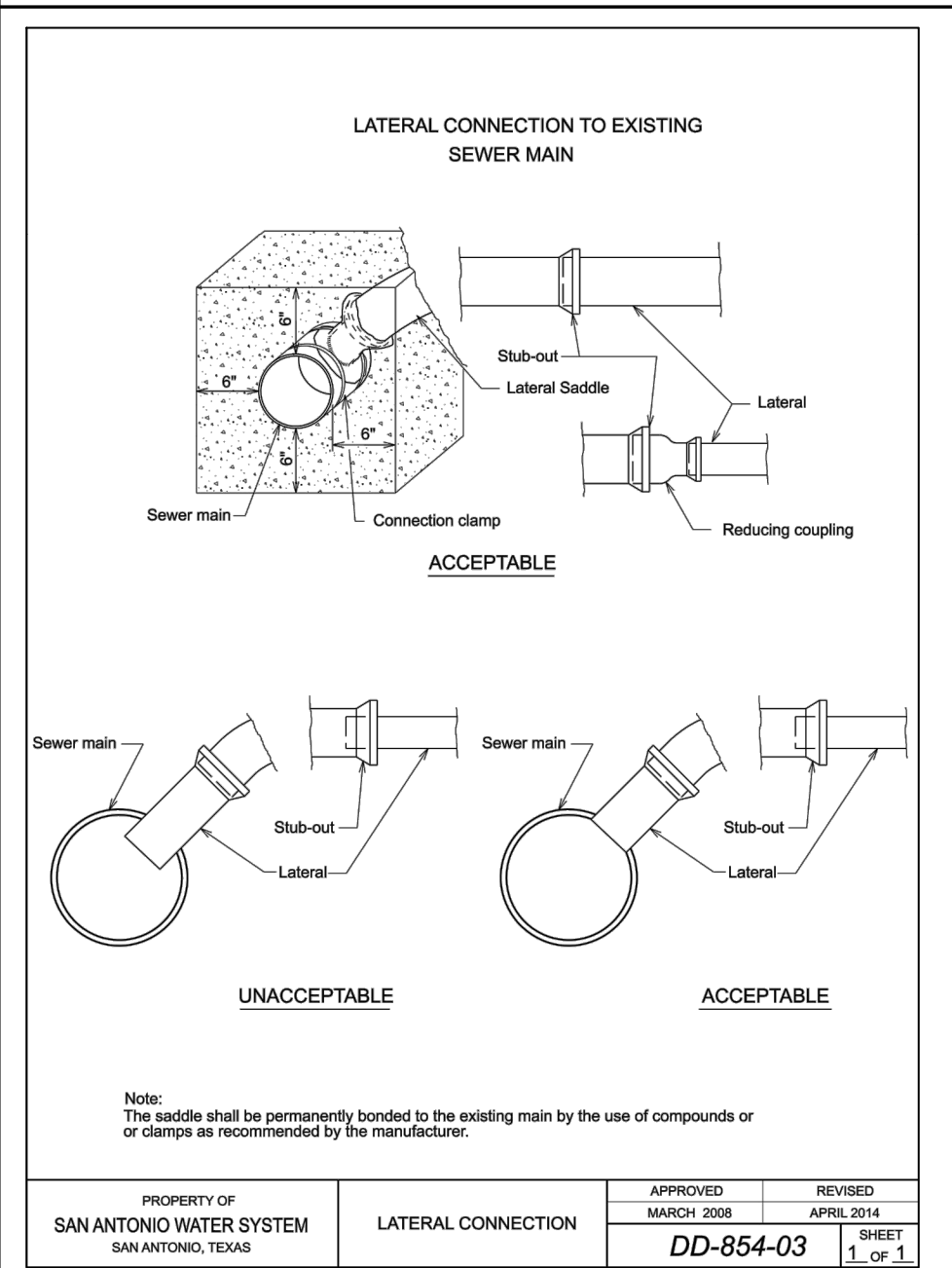
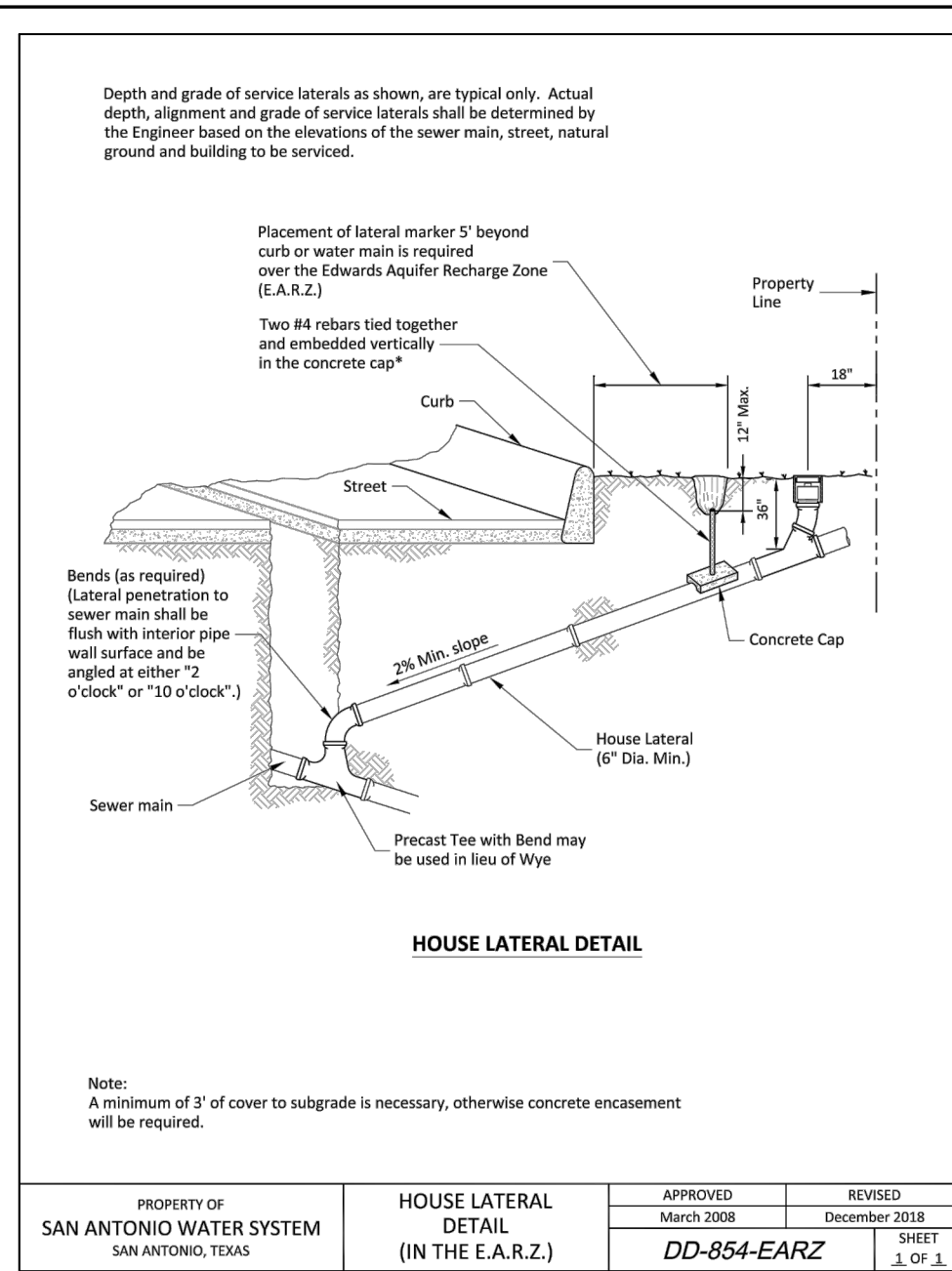
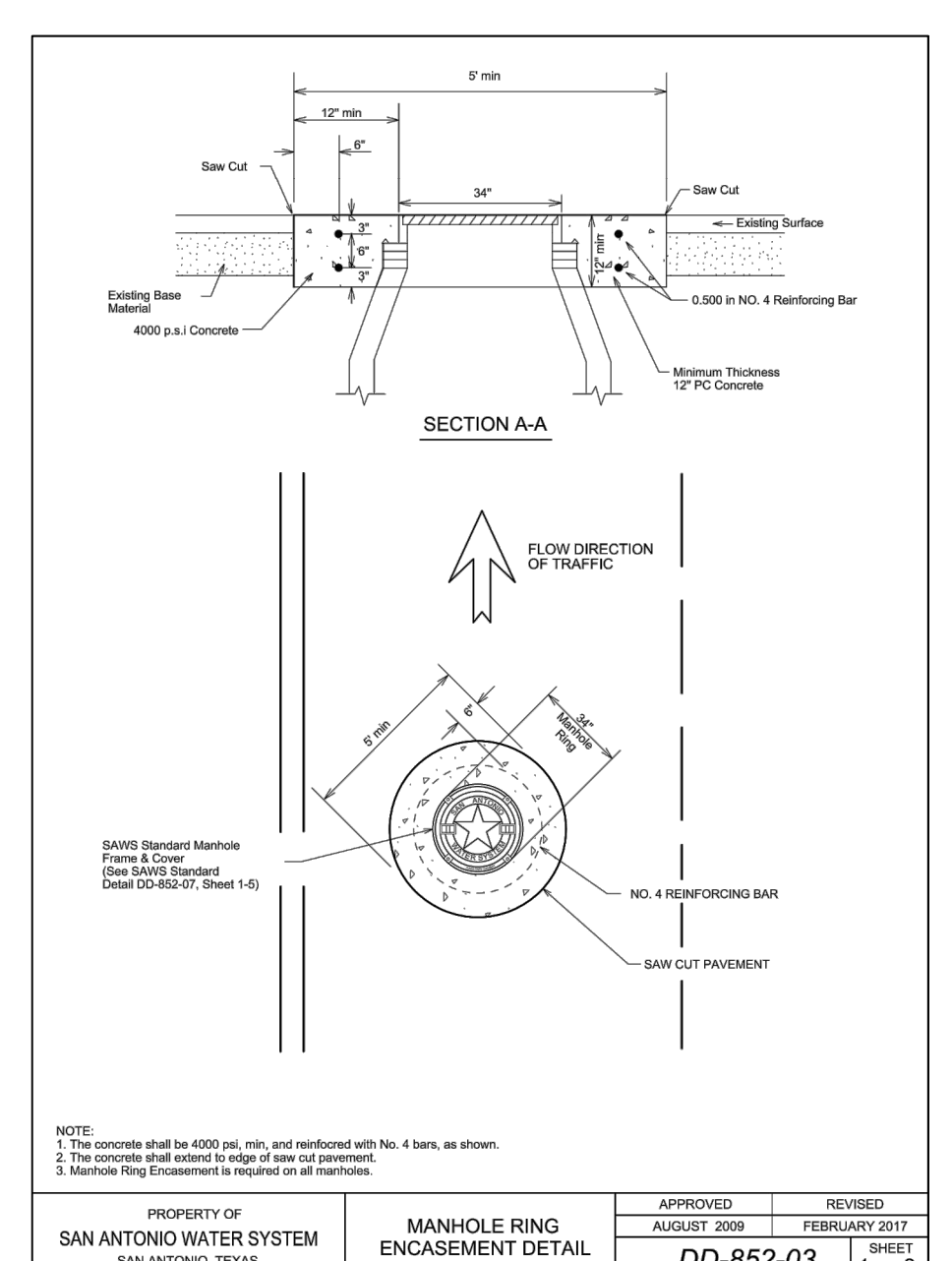
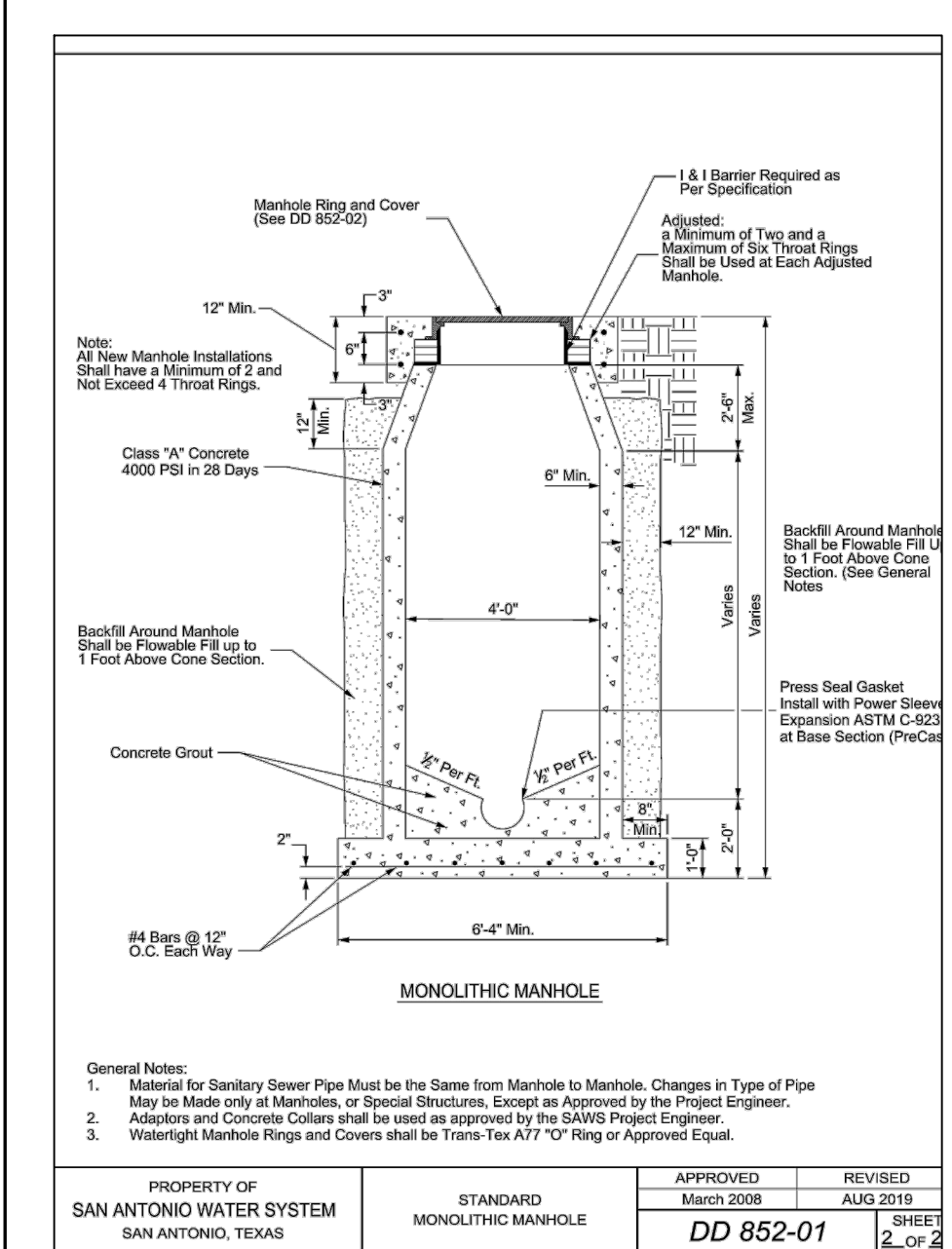
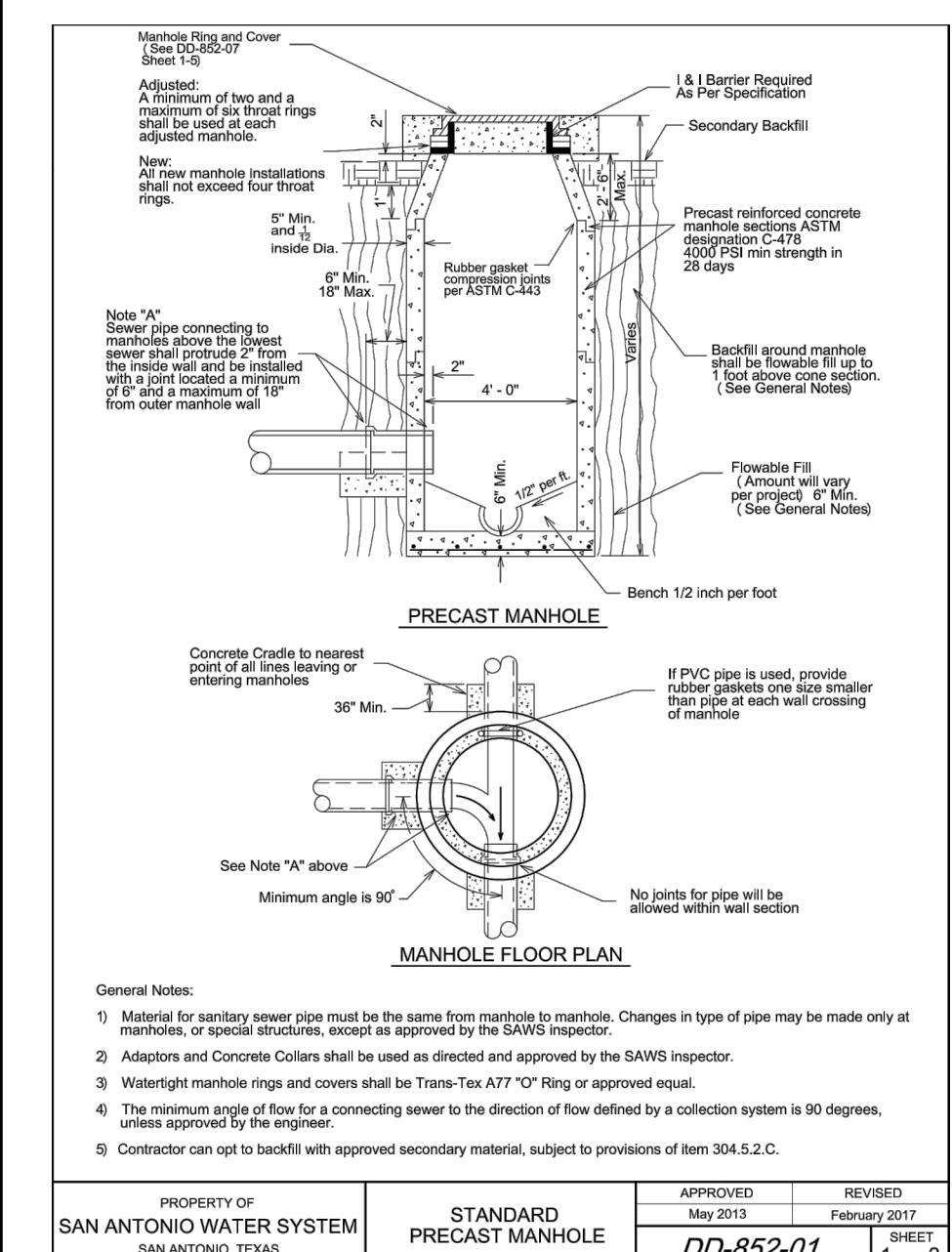
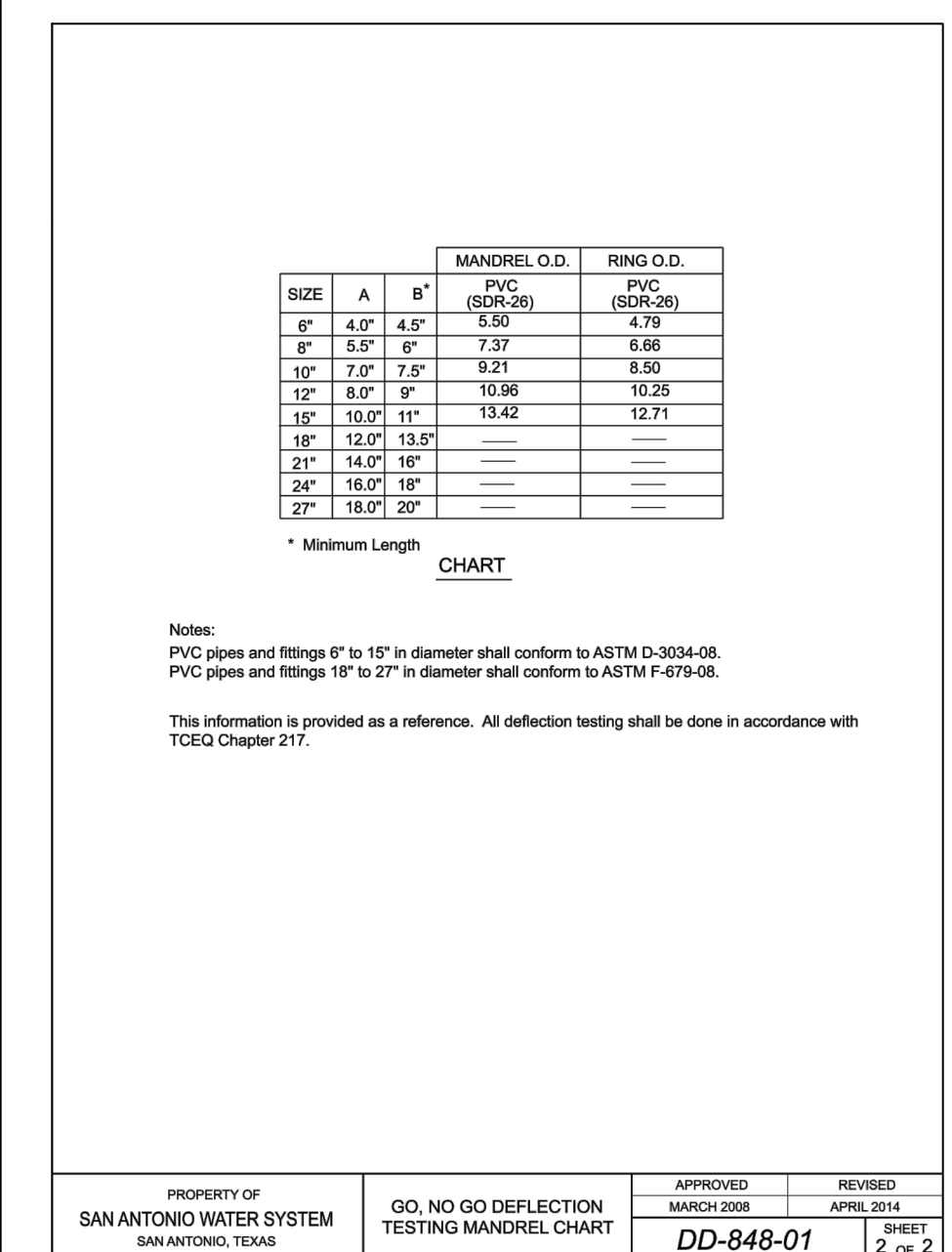
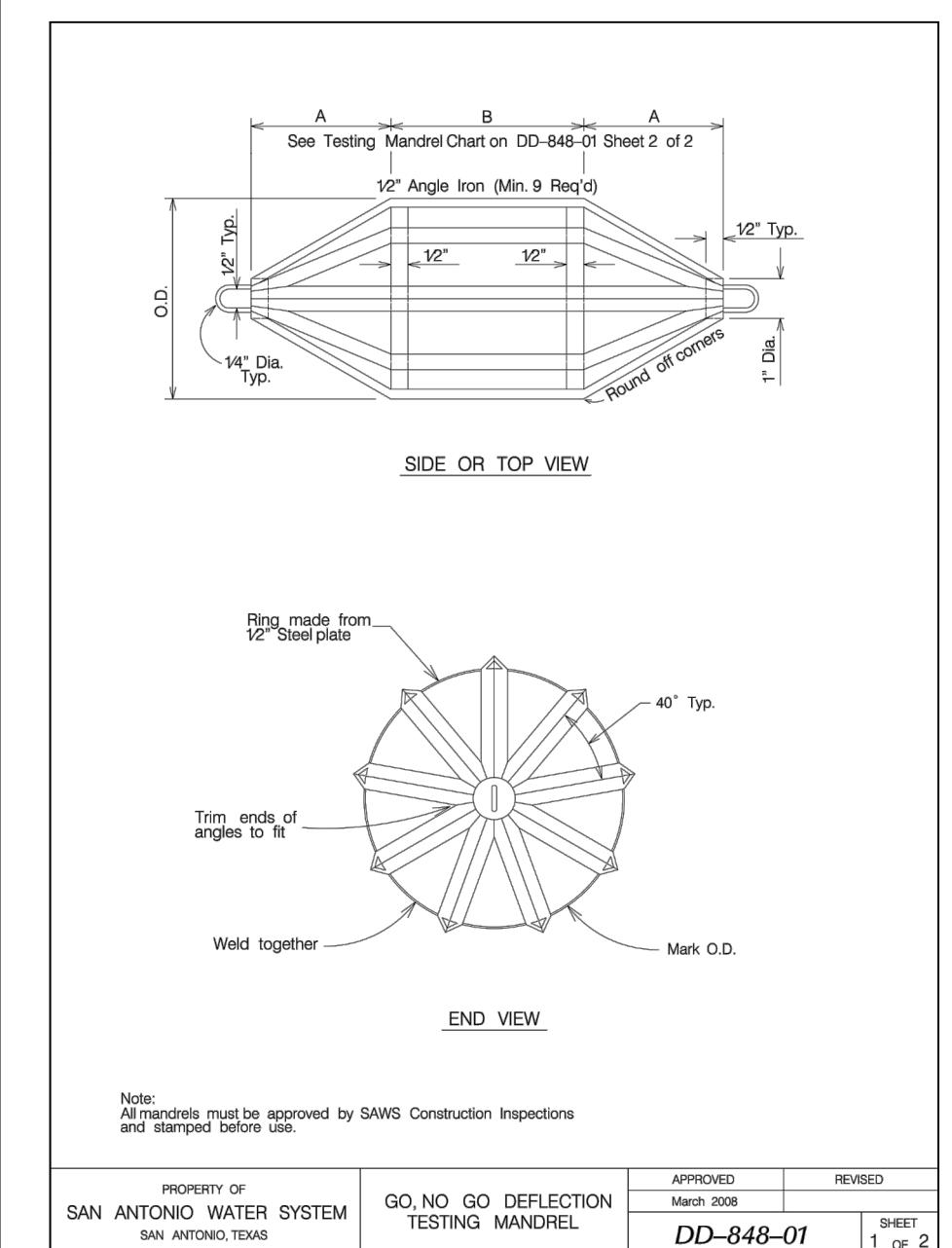
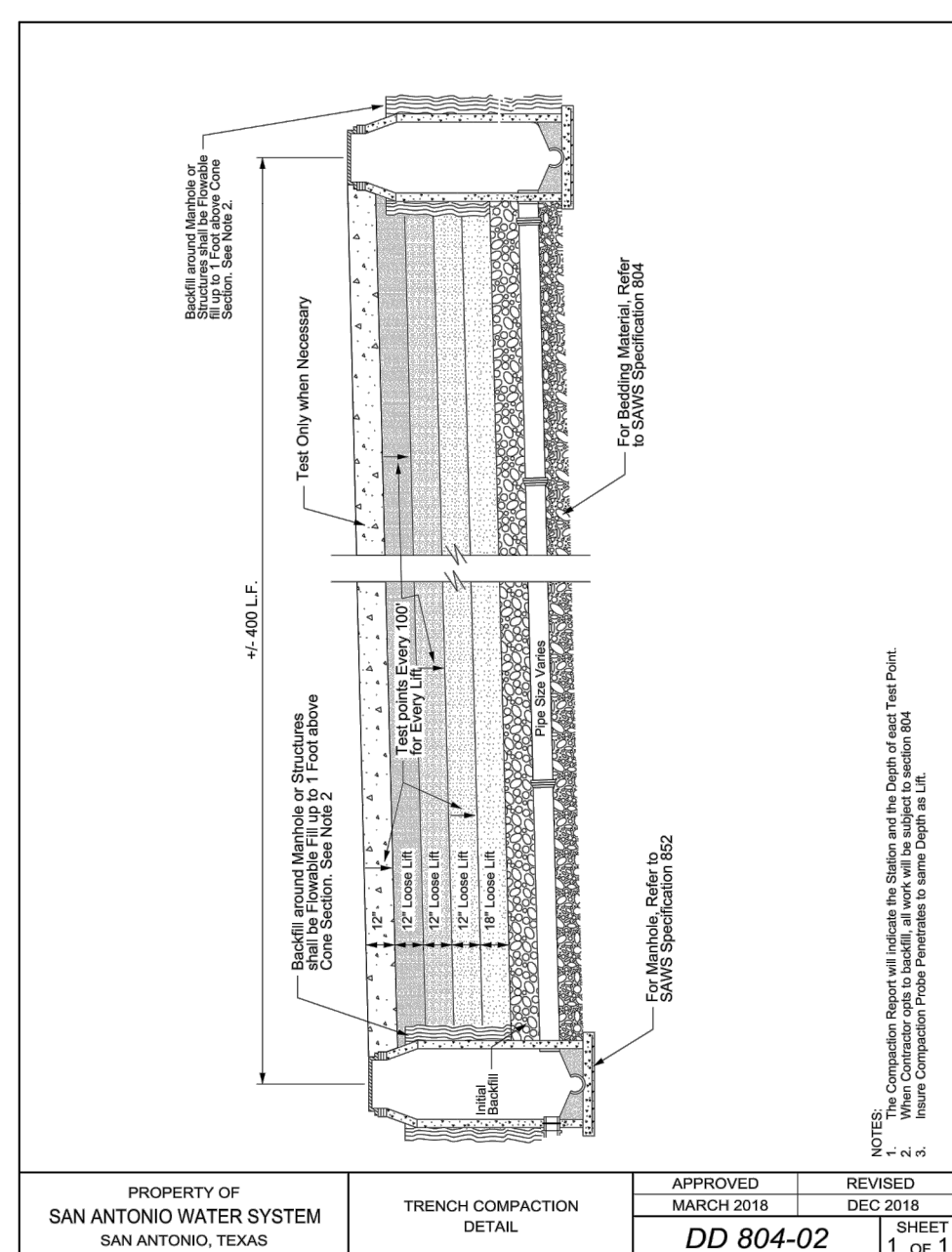
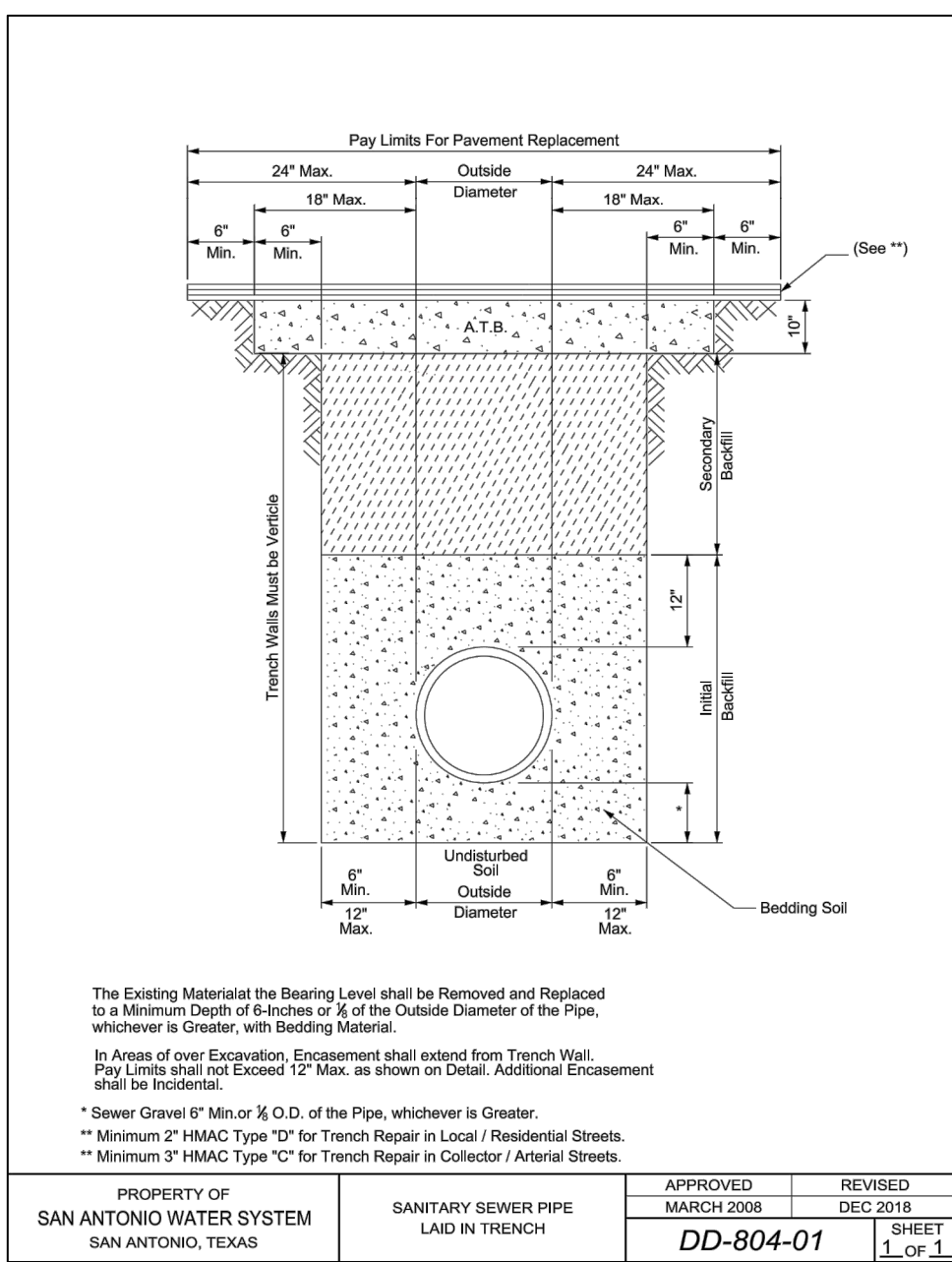
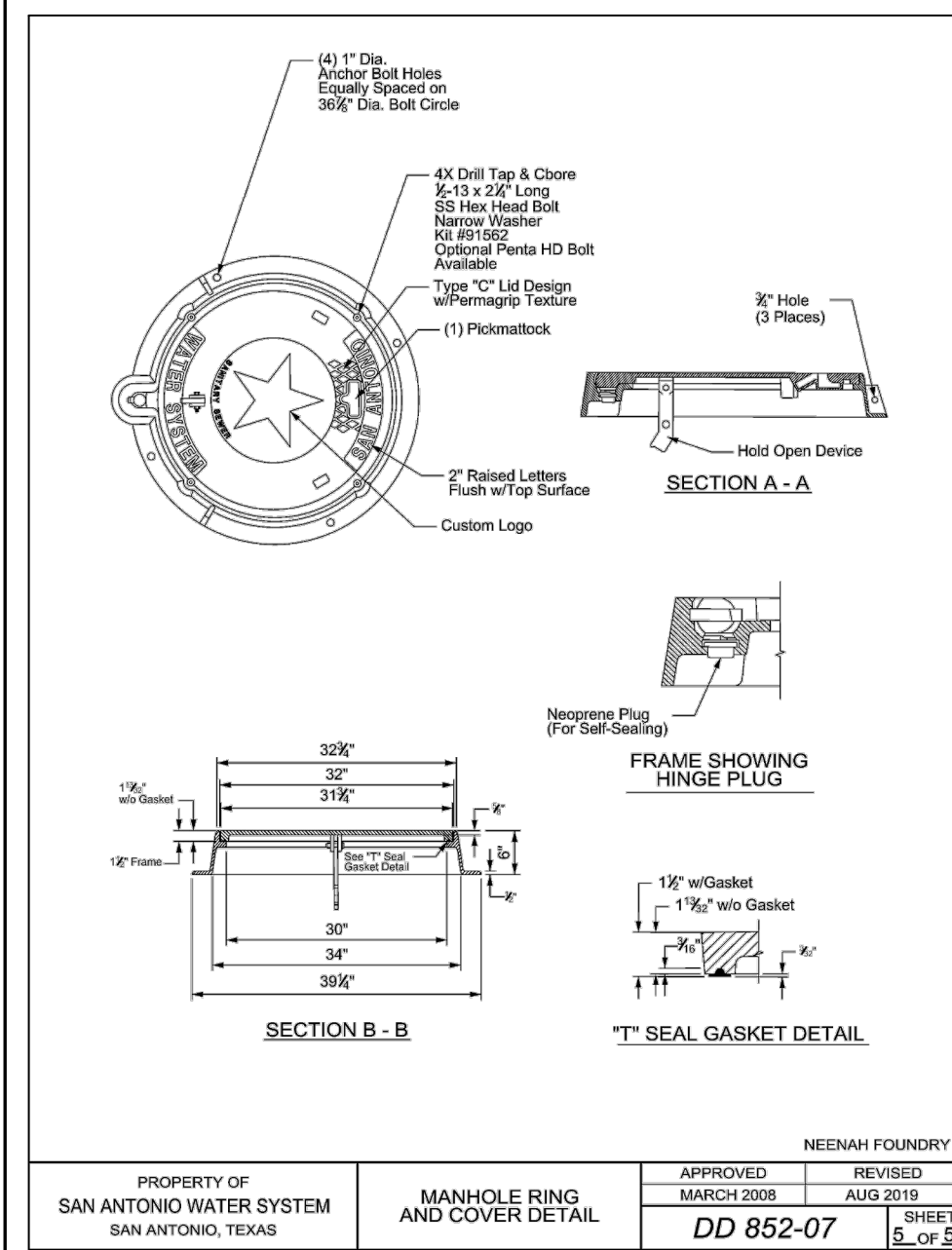
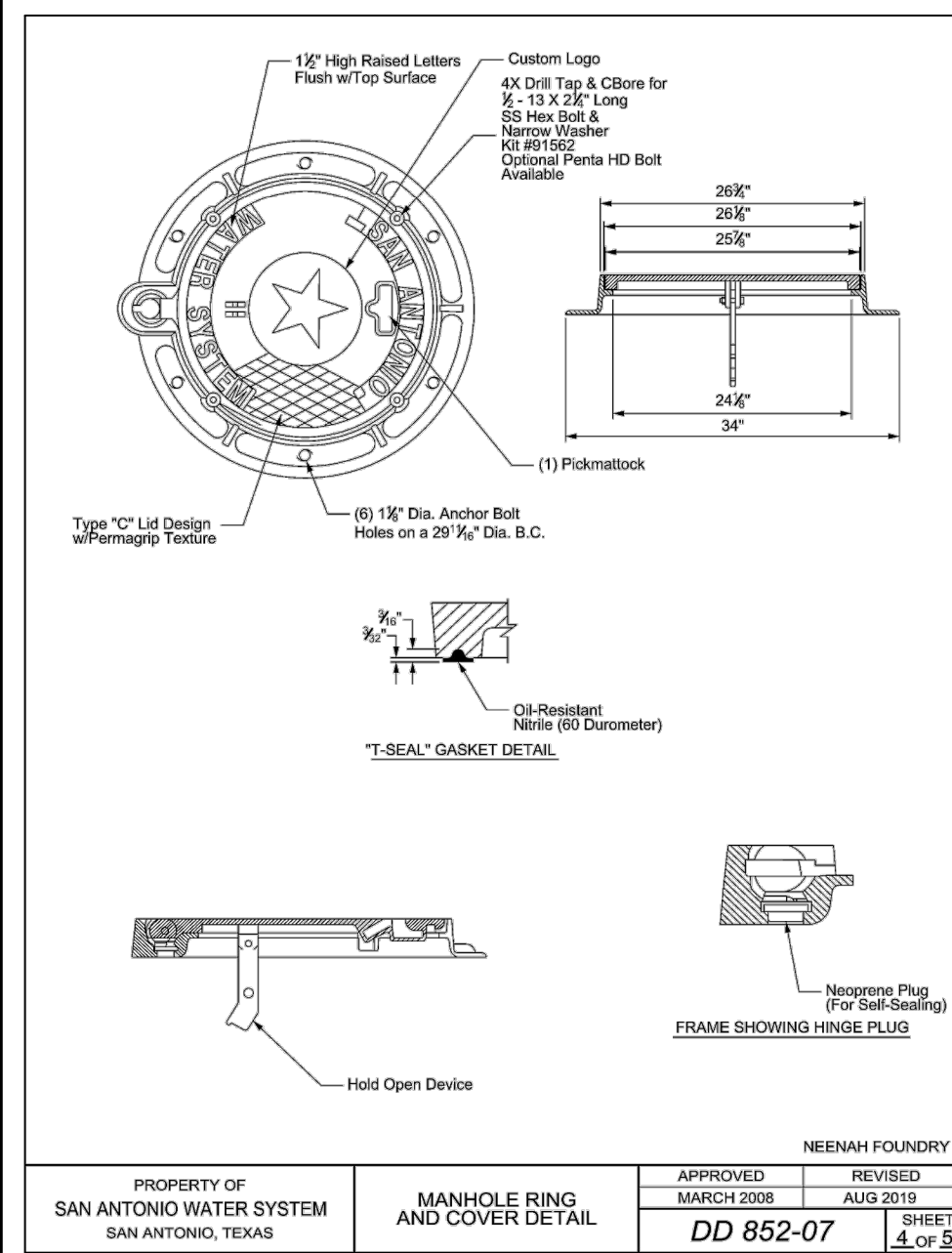
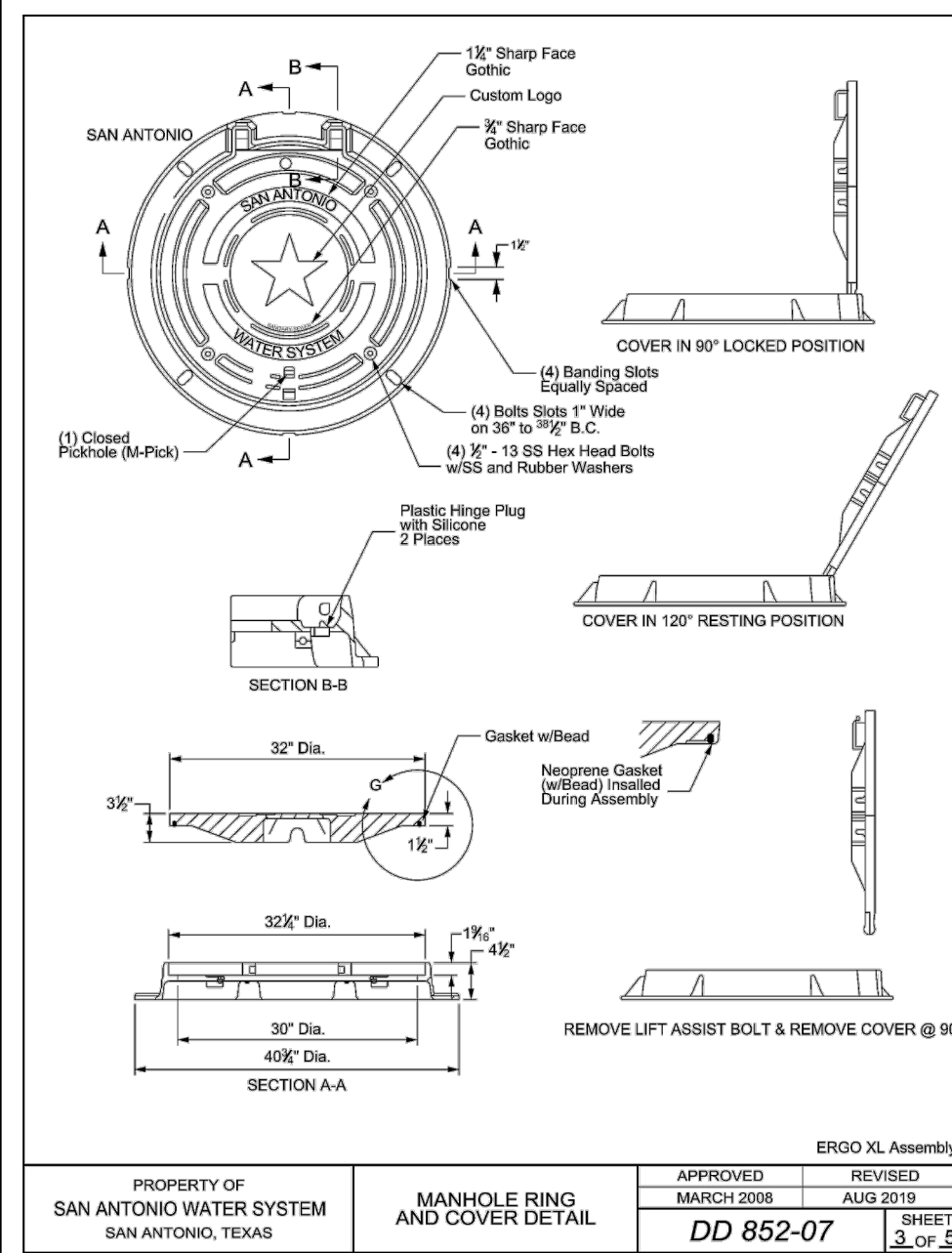
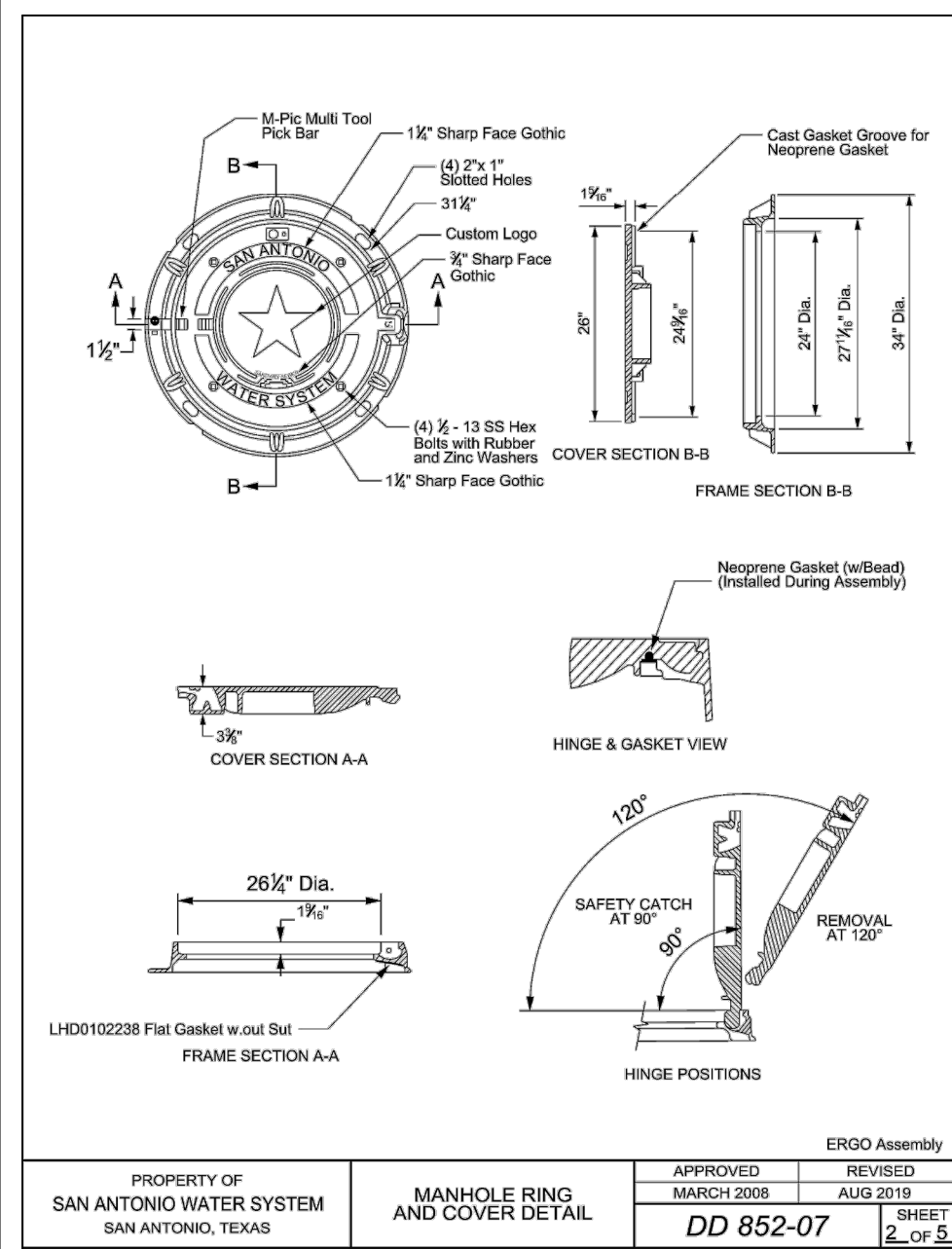
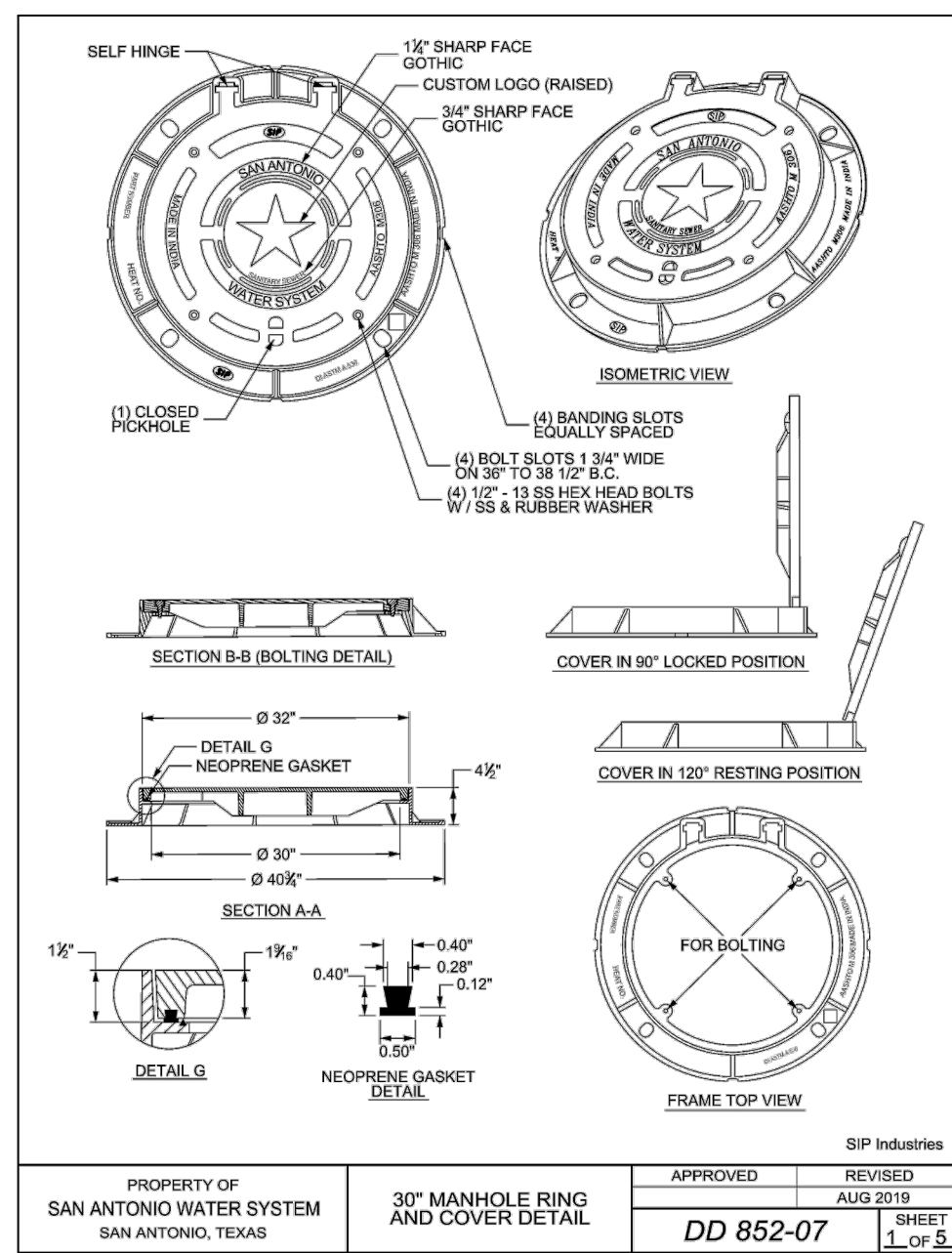
SEWER: (DOS RIOS WRC)

DEVELOPER'S NAME: CONTINENTAL HOMES OF TEXAS, L.P.
ADDRESS: 5419 N LOOP 1604 E
CITY: SAN ANTONIO STATE: TEXAS ZIP: 78247
PHONE# (210) 496-2668 FAX# (210) 496-2668
SAWS BLOCK MAP# 068562 TOTAL EDU'S .92 TOTAL ACREAGE 11.135
TOTAL LINEAR FOOTAGE OF PIPE: 8" ~ 4,441 PLAT NO. 24-11800201
NUMBER OF LOTS 92 SAWS JOB NO. 24-1565

PAPE-DAWSON ENGINEERS
2000 NW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000
TEXAS ENGINEERING FIRM #470 | TEXAS SURVEYING FIRM #1008800

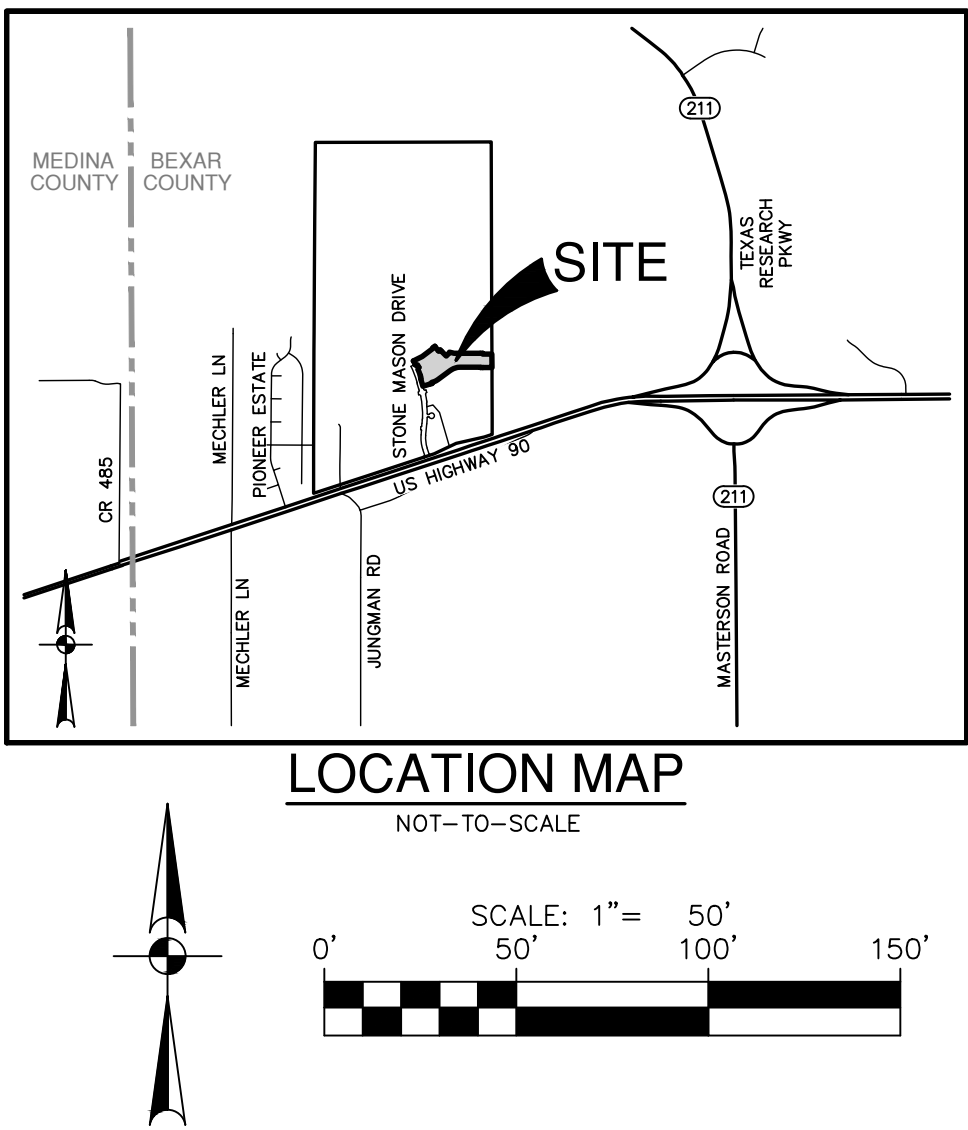
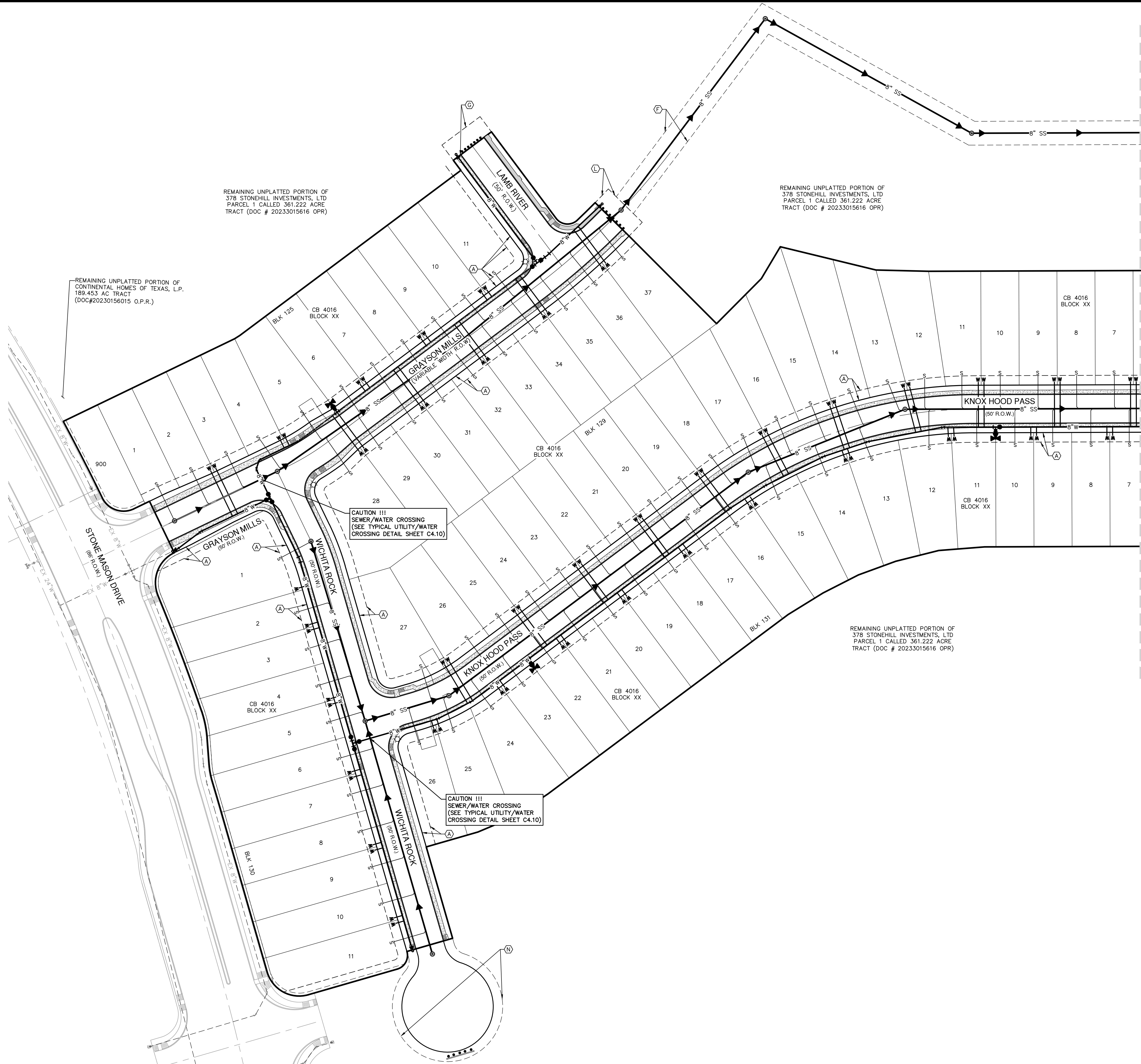
STONEHILL, UNIT-4A
SAN ANTONIO, TEXAS
SANITARY SEWER PLAN & PROFILE (LINE C & LINE D)
LINE C ~ STA. 1+00.00 TO END
LINE D ~ STA. 1+00.00 TO END

PLAT NO. 24-11800201
JOB NO. 12456-16
DATE MAY 2024
DESIGNER CB
CHECKED BL DRAWN JF
SHEET C5.07

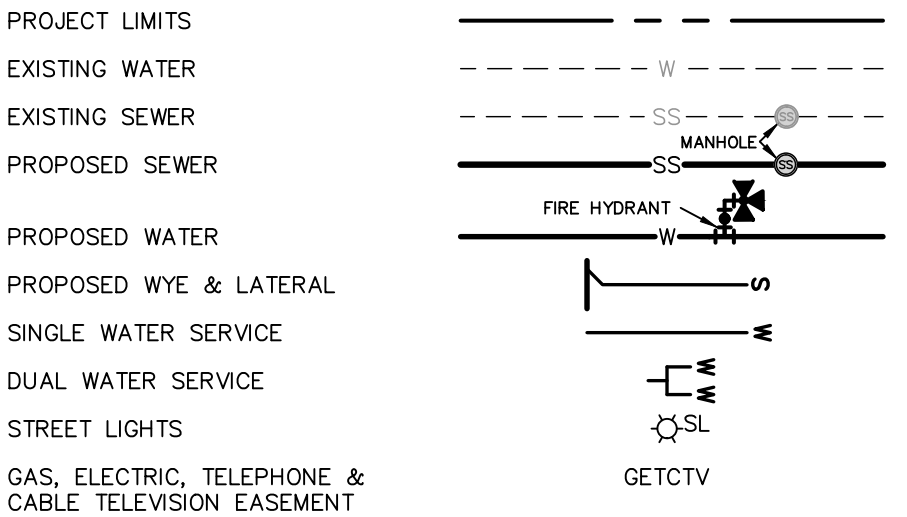


Date: July 22, 2024, 11:18 AM - User: ID: rlvancez
File: P:\24\5616\Design\Civil\UTDA-1245616.dwg

THIS 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, CARPOOL/Digital Globe, Texas Orthomography Program, USDA Farm Service Agency.



UTILITY LEGEND



KEY LEGEND:

- (A) 10' ELEC, GAS, TELE, & CATV EASEMENT
- (S) 25' SANITARY SEWER EASEMENT TO EXPIRE UPON INCORPORATION INTO PLATTED PUBLIC STREET RIGHT-OF-WAY AND 900 LOTS (OFF-LOT)
- (D) 50'x20' DRAINAGE, ACCESS, SEWER AND UTILITY EASEMENT INCORPORATION INTO PLATTED PUBLIC STREET RIGHT-OF-WAY (OFF-LOT)
- (I) 18' DRAINAGE EASEMENT
- (J) 15' ELEC, GAS, TELE, & CATV EASEMENT
- (K) 5' WATER EASEMENT
- (L) 50'x20' DRAINAGE, ACCESS, SANITARY SEWER, WATER, GAS, ELECTRIC, TELEPHONE AND CABLE TV EASEMENT TO EXPIRE UPON INCORPORATION INTO PLATTED PUBLIC STREET RIGHT-OF-WAY AND LOTS (OFF-LOT)
- (M) VARIABLE WIDTH DRAINAGE, GRADING, AND ACCESS EASEMENT (OFF-LOT)
- (N) VARIABLE WIDTH TURNAROUND, DRAINAGE, SEWER, AND WATER EASEMENT TO EXPIRE UPON INCORPORATION INTO PLATTED ROW

CONDUIT NOTES:

- CONTRACTOR SHALL INSTALL PERMANENT MARKERS IN PROPOSED CURB WHERE CONDUITS CROSS THE ROADWAY (BOTH SIDES).
- CONDUITS SHALL BE PVC WITH MINIMUM BURY OF 36 INCHES BELOW PROPOSED FINISHED GRADE. SCHEDULE 80 TO BE USED FOR GPS CONDUITS, ALL OTHER CONDUITS ARE SCHEDULE 40.
- ALL CONDUITS SHALL BE EXTENDED BEHIND CURBS OR PROPOSED SIDEWALKS A MINIMUM OF 3 FEET AND CAPPED FOR FUTURE USE.
- ALL CONDUIT SLEEVES TO BE USED FOR ELECTRIC, GAS, OR 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 SAFETY PROTECTION THAT COMPLY WITH AS A MINIMUM, OSHA STANDARDS FOR TRENCH EXCAVATIONS. SPECIFICALLY, CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR SAFETY CONSULTANT SHALL IMPLEMENT A TRENCH SAFETY PROGRAM IN ACCORDANCE WITH OSHA STANDARDS GOVERNING THE PRESENCE AND ACTIVITIES OF INDIVIDUALS WORKING IN AND AROUND TRENCH EXCAVATION.

CAUTION!!

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

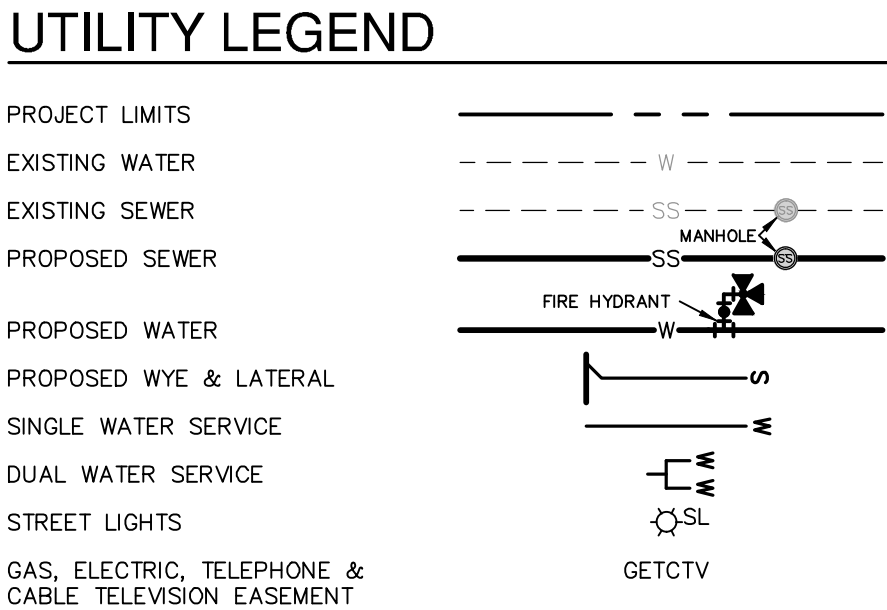
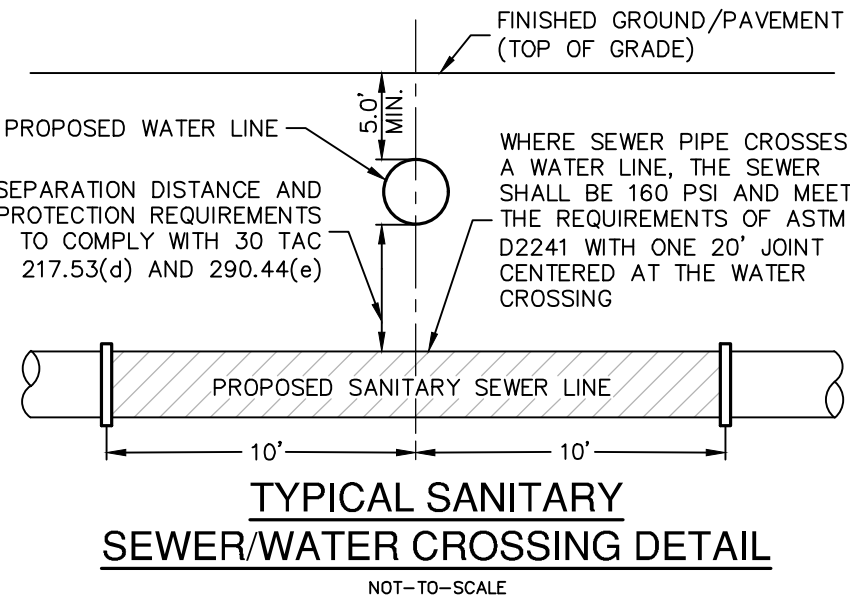
NO.	REVISION	DATE



PAPE-DAWSON ENGINEERS
2000 NW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000
TEXAS ENGINEERING FIRM #470 | TEXAS SURVEYING FIRM #10028800

STONEHILL, UNIT-4A
SAN ANTONIO, TEXAS
OVERALL UTILITY PLAN

PLAT NO.	24-11800201
JOB NO.	12456-16
DATE	MAY 2024
DESIGNER	CB
CHECKED	BL
DRAWN	JF
SHEET	C6.00



- ## KEY LEGEND:
- | | |
|-----|--|
| (A) | 10' ELEC, GAS, TELE, & CATV EASEMENT |
| (F) | 25' SANITARY SEWER EASEMENT TO EXPIRE UPON INCORPORATION INTO PLATTED PUBLIC STREET RIGHT-OF-WAY AND 900 LOTS, (OFF-LOT) |
| (G) | 50"x20" DRAINAGE, ACCESS, SEWER AND UTILITY EASEMENT INCORPORATION INTO PLATTED PUBLIC STREET RIGHT-OF-WAY (OFF-LOT) |
| (J) | 18' DRAINAGE EASEMENT |
| (J) | 15' ELEC, GAS, TELE, & CATV EASEMENT |
| (K) | 5' WATER EASEMENT |
| (L) | VARIABLE WATER DRAINAGE, GRADING, AND ACCESS EASEMENT (OFF-LOT) |
| (M) | 5' GETCTV EASEMENT |
| (N) | 25' GETCTV EASEMENT (OFF-LOT) |

1. CONTRACTOR SHALL INSTALL PERMANENT MARKERS IN PROPOSED CURBS WHERE CONDUITS CROSS THE ROADWAY (BOTH SIDES).
2. CONDUITS SHALL BE PVC WITH MINIMUM BURY OF 36 INCHES BELOW PROPOSED FINISHED GRADE. SCHEDULE 40 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, OR TELECOMMUNICATION UTILITY CROSSINGS SHALL BE INSTALLED TO MEET OR EXCEED DESIGN REQUIREMENTS FOR THE UTILITY AGENCY WHICH IS THE PRIMARY AGENCY INVOLVED. NOT LIMITED TO THE DEPTH OF 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.

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 DATA AND/OR RECORDS, AND/OR ADJUSTED TO THE SITE 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. CONTRACTOR'S IMPLEMENTATION OF THESE SYSTEMS, PROGRAMS AND/OR PROCEDURES SHALL PROVIDE FOR ADEQUATE TRENCH EXCAVATION SAFETY PROTECTION THAT IS COMPLY WITH 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 THE FOLLOWING: 1. TRENCH SAFETY PLAN, ACTIVITIES OF INDIVIDUALS WORKING IN AND AROUND TRENCH EXCAVATION,

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 ELECTRIC 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 BE RESPONSIBLE TO OBTAIN A MINIMUM OF 4 WEEKS PRIOR TO THE START OF CONSTRUCTION, ANY DAMAGE TO EXISTING UTILITIES SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR AND THE REPAIR SHALL BE AT CONTRACTOR'S SOLE EXPENSE WHETHER THE UTILITY IS SHOWN ON THESE PLANS OR NOT.

PAPE-DAWSON
PE ENGINEERS

2000 NW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000
TEXAS ENGINEERING FIRM #470 | TEXAS SURVEYING FIRM #10028800

STONEHILL, UNIT-4A
SAN ANTONIO, TEXAS
OVERALL UTILITY PLAN

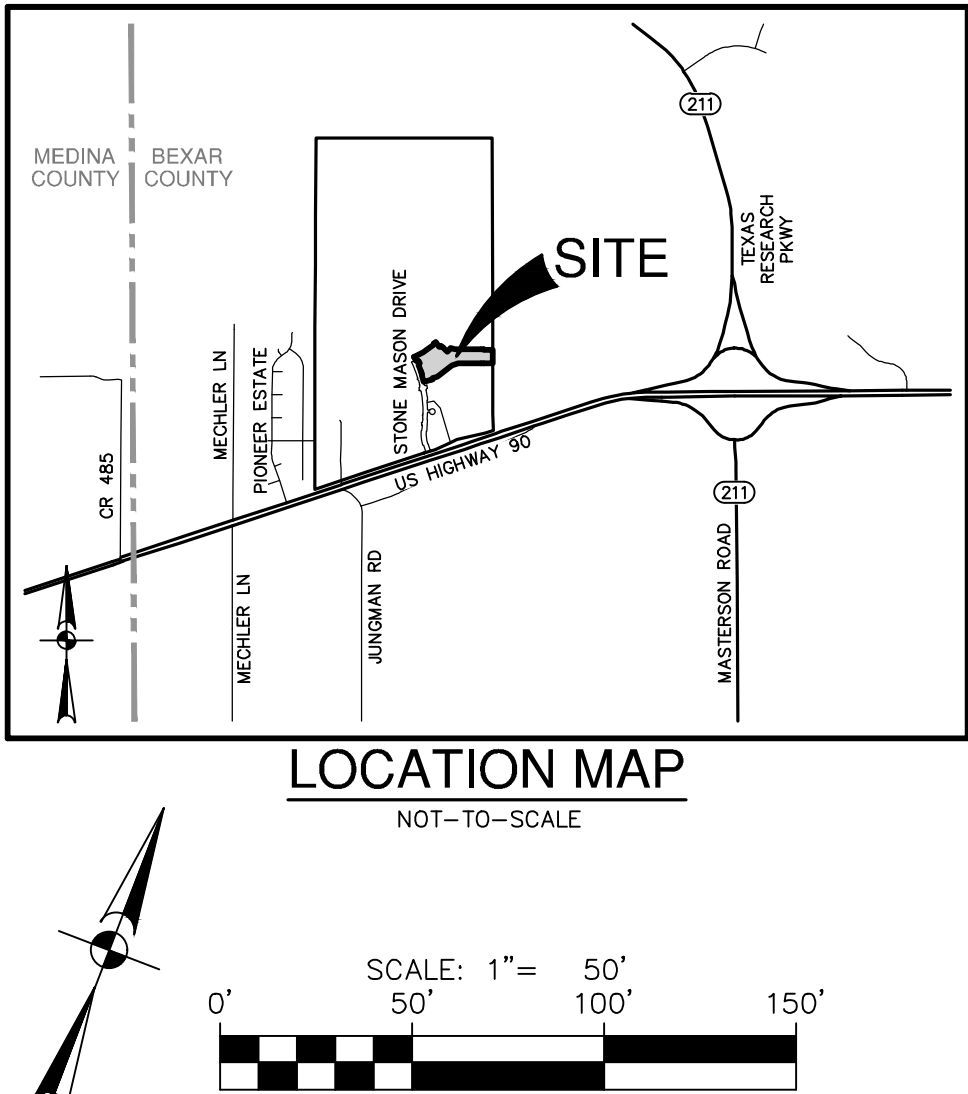
OVERALL UTILITY PLAN

OVERALL UTILITY PLAN

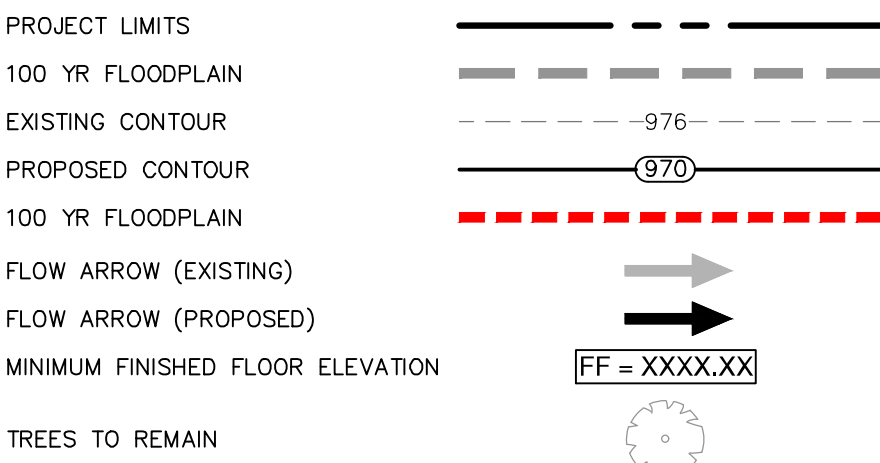
GRADING NOTES:

1. ALL MATERIALS AND CONSTRUCTION PROCEDURES WITHIN THIS SCOPE OF WORK WHERE NOT SPECIFICALLY COVERED IN THE SPECIFICATIONS OR GEOTECHNICAL REPORT SHALL CONFORM TO ALL APPLICABLE CITY, COUNTY AND TxDOT STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION (LATEST EDITION).
2. SITE PREPARATION, GRADING, EXCAVATION, AND FILL SHALL BE PERFORMED IN ACCORDANCE WITH THE PROJECT GEOTECHNICAL REPORT AND SPECIFICATIONS.
3. ALL SELECT FILL MATERIAL PROVIDED SHALL BE APPROVED BY 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 PROJECT.
6. THE CONTRACTOR SHALL VERIFY THE SUITABILITY OF ALL EXISTING AND PROPOSED SITE CONDITIONS INCLUDING GRADES AND DIMENSIONS BEFORE COMMENCEMENT OF CONSTRUCTION. THE ENGINEER SHALL BE NOTIFIED IMMEDIATELY OF ANY DISCREPANCIES.
7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ACQUIRING ALL PERMITS, TESTS, APPROVALS AND ACCEPTANCES REQUIRED TO COMPLETE CONSTRUCTION OF THIS PROJECT.
8. THE CONTRACTOR SHALL REMOVE TOP SOIL, GRASS, ROOTS, DEBRIS, 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 +/- 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 FLOODING 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 A PERMIT.

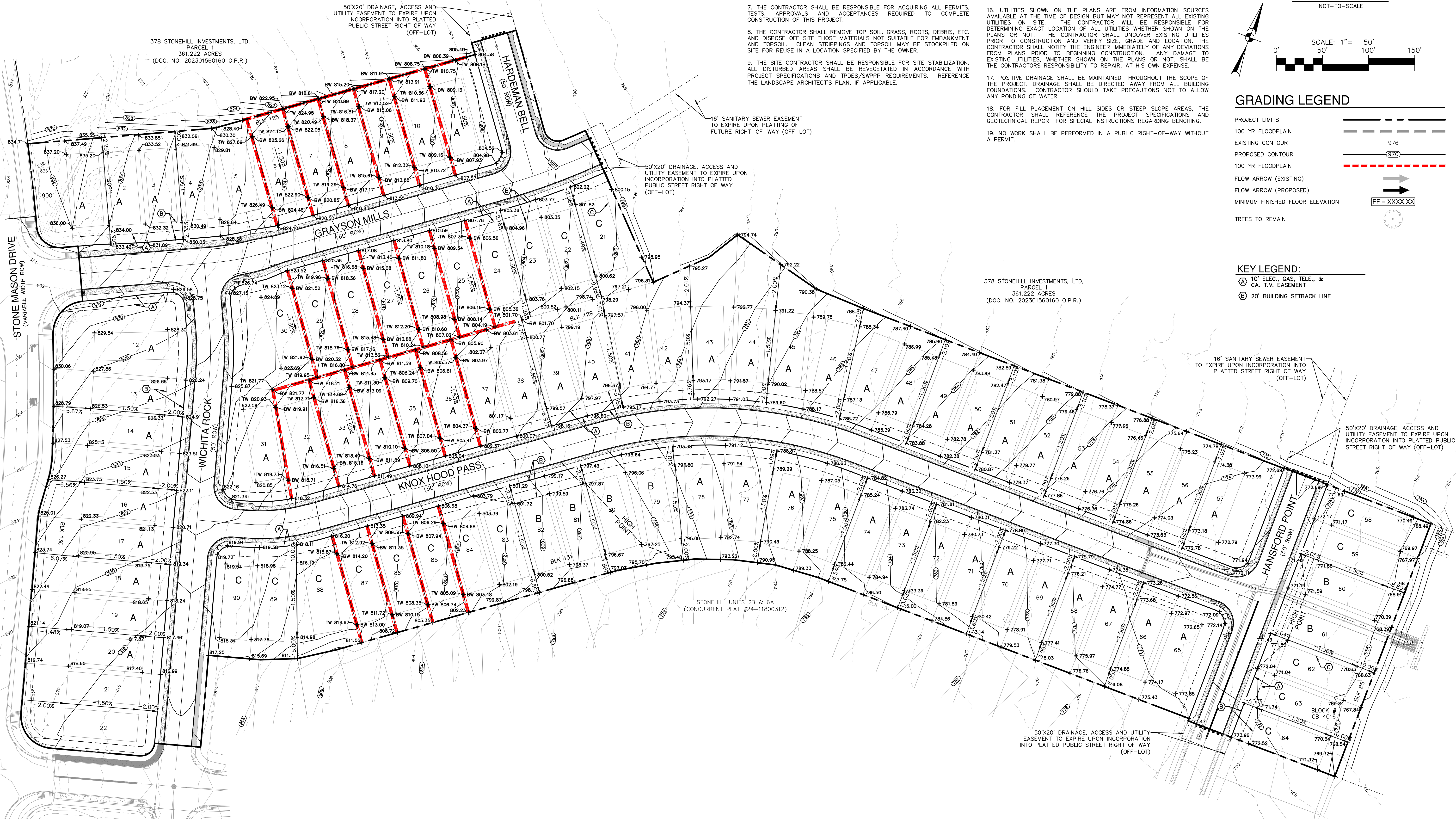


GRADING LEGEND



KEY LEGEND:

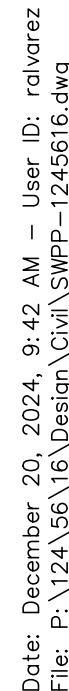
- (A) 10' ELEC., GAS, TELE., & CA. TV EASEMENT
- (B) 20' BUILDING SETBACK LINE



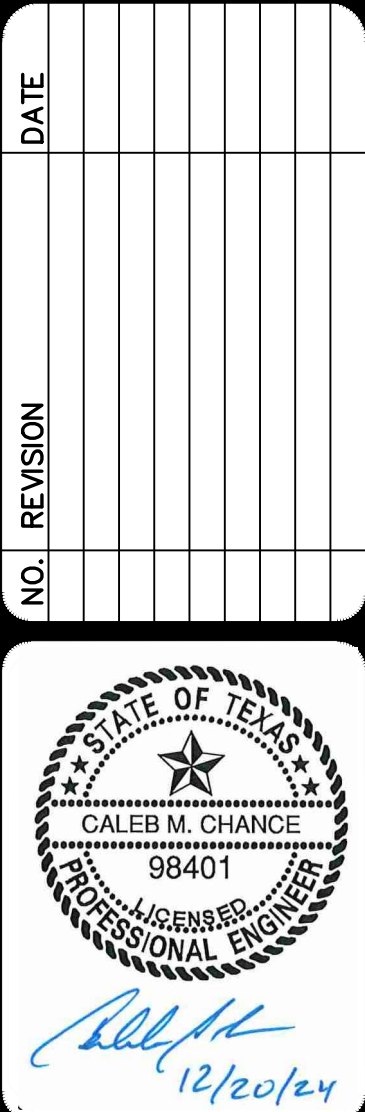
PAPE-DAWSON ENGINEERS
2000 HW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000
TEXAS ENGINEERING FIRM #470 | TEXAS SURVEYING FIRM #1008800

STONEHILL, UNIT-4A
SAN ANTONIO, TEXAS
OVERALL GRADING PLAN


PLAT NO.	24-11800201
JOB NO.	12456-16
DATE	MAY 2024
DESIGNER	CB
CHECKED	BL
DRAWN	CB
SHEET	C7.00



THIS 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.



STONEHILL, UNIT-4A
SAN ANTONIO, TEXAS

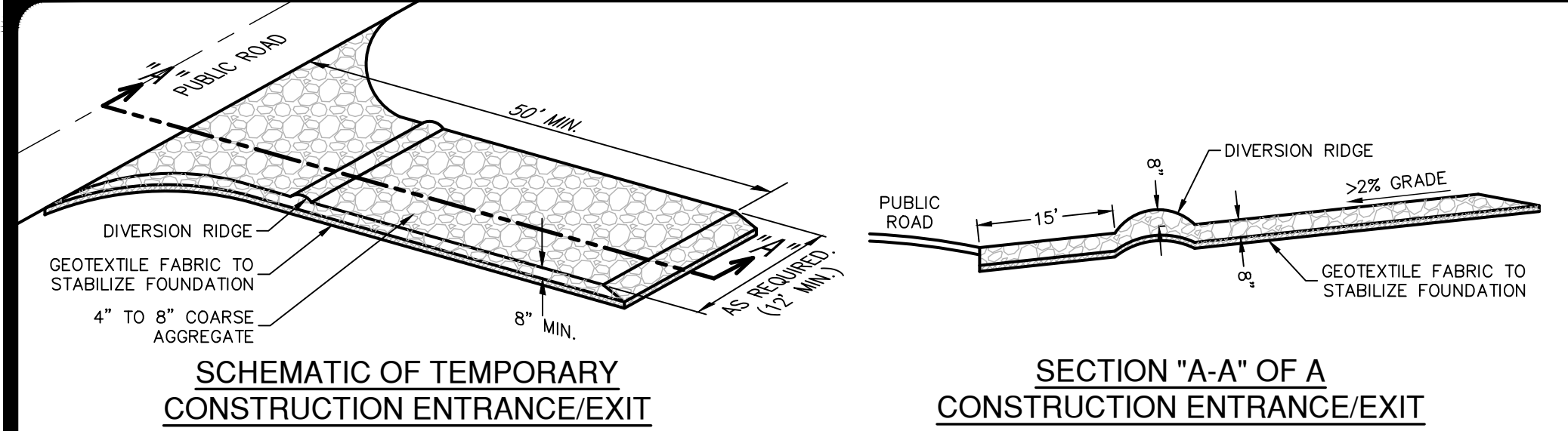
- # GENERAL NOTES
1. DO NOT DISTURB VEGETATED AREAS (TREES, GRASS, WEEDS, BRUSH, ETC.) ANY MORE THAN NECESSARY FOR CONSTRUCTION.
 2. CONSTRUCTION ENTRANCE/EXIT LOCATION, CONCRETE WASH-OUT PITS, CONSTRUCTION EQUIPMENT AND MATERIAL STORAGE YARD TO BE DETERMINED IN THE FIELD.
 3. STORM WATER POLLUTION PREVENTION CONTROLS MAY NEED TO BE MODIFIED IN THE FIELD TO ACCOMPLISH THE DESIRED EFFECT. ANY 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 LOCATION 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 BE CONSTRUCTED WITHIN THE SITE BOUNDARIES. SOME OF THESE FEATURES MAY BE SHOWN OUTSIDE THE SITE BOUNDARIES ON THIS PLAN FOR VISUAL CLARITY.
 8. AS SOON AS PRACTICAL, ALL DISTURBED SOIL THAT WILL NOT BE COVERED BY IMPERVIOUS COVER SUCH AS PARKWAY AREAS, EASEMENTS, EMBANKMENT SLOPES, ETC. WILL BE STABILIZED PER APPLICABLE PROJECT SPECIFICATIONS.
 9. BEST MANAGEMENT PRACTICES MAY BE INSTALLED IN STAGES TO COINCIDE WITH THE DISTURBANCE OF UPGRADIENT AREAS.
 10. BEST MANAGEMENT PRACTICES MAY BE REMOVED IN STAGES ONCE THE DISTURBANCE OF 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 BERM 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 CONSTRUCTION EQUIPMENT AND MATERIAL STORAGE YARD, ARE NOT TO BE DISTURBED. CONSTRUCTION POLLUTION PREVENTION SHALL BE MAINTAINED AND WILL NOT BE DISTURBED BY CIVIL CONSTRUCTION ACTIVITIES. WHEN CONSTRUCTION ACTIVITIES WILL REQUIRE A SEPARATE STORM WATER POLLUTION PREVENTION PLAN.
 14. PRIOR TO BEGINNING CONSTRUCTION, CONTRACTOR SHALL COORDINATE WITH THE AGENCY TO PLACE ALL BEST MANAGEMENT PRACTICES WITHIN TWO (2) FEET OF THE PROJECT LINE WITH TYPDOT.
 15. OPS ENERGY WILL FUNCTION AS A SECONDARY OPERATOR ON THE PROJECT AND WILL BE INSTALLING ELECTRIC UTILITIES FOR ON-SITE CONSTRUCTION AND OFF-SITE TO THE PROJECT.
 16. A BEXAR COUNTY ROW PERMIT MUST BE OBTAINED BEFORE WORKING WITHIN A BEXAR COUNTY ROW.

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

EXHIBIT 2

PLAT NO. 24-11800201
 JOB NO. 12456-16
 DATE MAY 2024
 DESIGNER XX
 CHECKED XX DRAWN XX
 SHEET C8.00

Date: August 14, 2024, 11:26 AM - User: JD, c:\dwg2
File: P:\124156\1\Design\Civil\SWP-1245616.dwg



MATERIALS

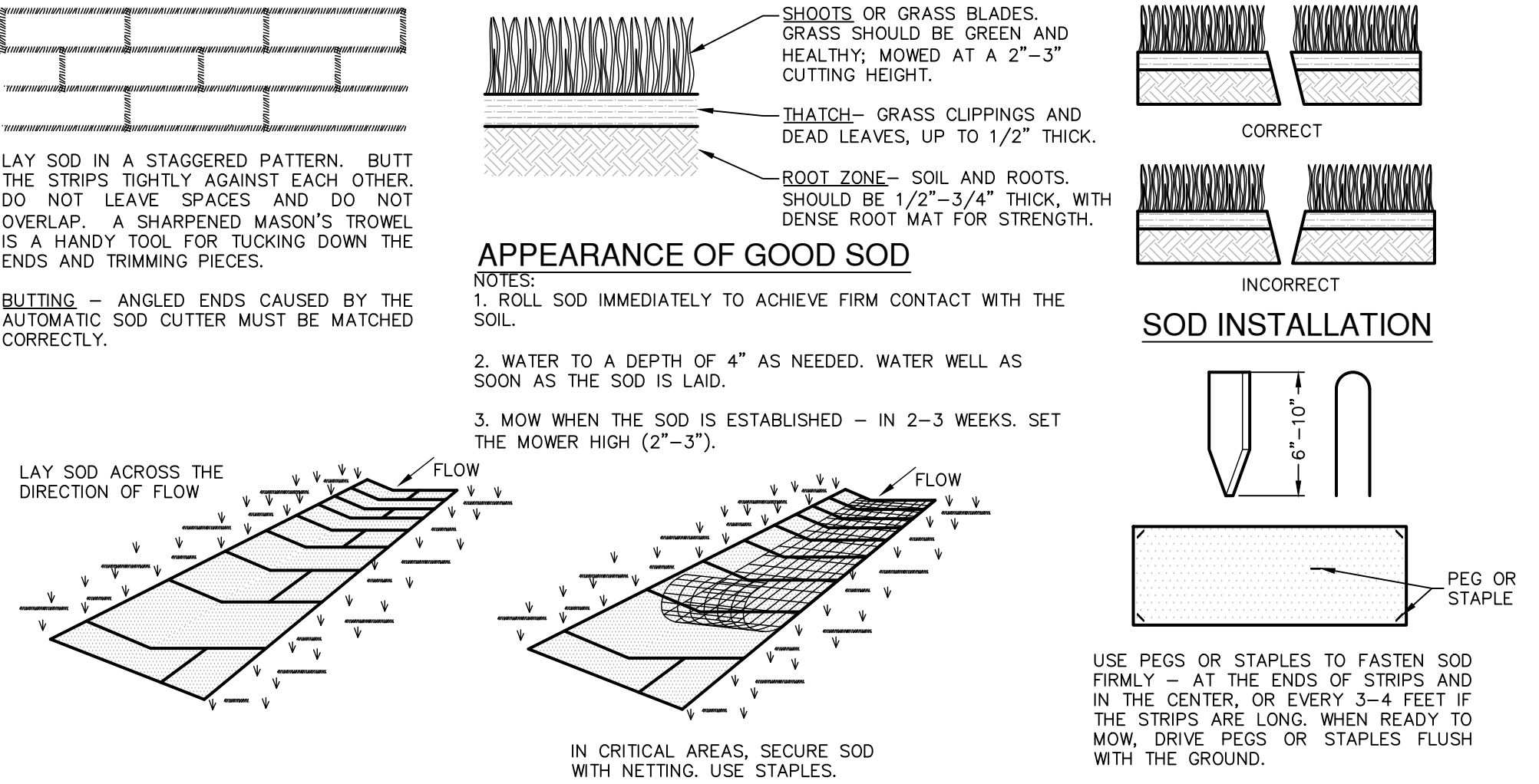
1. THE AGGREGATE SHOULD CONSIST OF 4-INCH TO 8-INCH WASHED STONE OVER A STABLE FOUNDATION AS SPECIFIED IN THE PLAN.
2. THE AGGREGATE SHOULD BE PLACED WITH A MINIMUM THICKNESS OF 8-INCHES.
3. THE GEOTEXTILE FABRIC SHOULD BE DESIGNED SPECIFICALLY FOR USE AS A SOIL FILTRATION MEDIA WITH AN APPROXIMATE WEIGHT OF 6 OZ/YD², A MULLEN BURST RATING OF 140 LB/IN², AND AN EQUIVALENT OPENING SIZE GREATER THAN A NUMBER 50 SIEVE.
4. IF A WASHING FACILITY IS REQUIRED, A LEVEL AREA WITH A MINIMUM OF 4-INCH DIAMETER WASHED STONE OR COMMERCIAL ROCK SHOULD BE INCLUDED IN THE PLANS. DIVERT WASTEWATER TO A SEDIMENT TRAP OR BASIN.

INSTALLATION

1. AVOID CURVES ON PUBLIC ROADS AND STEEP SLOPES. REMOVE VEGETATION AND OTHER OBJECTIONABLE MATERIAL FROM THE FOUNDATION AREA. GRADE CROWN FOUNDATION FOR POSITIVE DRAINAGE.
2. THE MINIMUM WIDTH OF THE ENTRANCE/EXIT SHOULD BE 12 FEET OR THE FULL WIDTH OF EXIT ROADWAY, WHICHEVER IS GREATER.
3. THE CONSTRUCTION ENTRANCE SHOULD BE AT LEAST 50 FEET LONG.
4. IF THE SLOPE TOWARD THE ROAD EXCEEDS 2%, CONSTRUCT A RIDGE, 6-INCHES TO 8-INCHES HIGH WITH 3:1 (H:V) SIDE SLOPES, ACROSS THE FOUNDATION APPROXIMATELY 15 FEET FROM THE ENTRANCE TO DIVERT RUNOFF AWAY FROM THE PUBLIC ROAD.
5. PLACE GEOTEXTILE FABRIC AND GRADE FOUNDATION TO IMPROVE STABILITY, ESPECIALLY WHERE WET CONDITIONS ARE ANTICIPATED.
6. PLACE STONE TO DIMENSIONS AND GRADE SHOWN ON PLANS. LEAVE SURFACE SMOOTH AND SLOPE FOR DRAINAGE.
7. DIVERT ALL SURFACE RUNOFF AND DRAINAGE FROM THE STONE PAD TO A SEDIMENT TRAP OR BASIN.
8. INSTALL PIPE UNDER PAD AS NEEDED TO MAINTAIN PROPER PUBLIC ROAD DRAINAGE.

STABILIZED CONSTRUCTION ENTRANCE/EXIT DETAIL

NOT-TO-SCALE



MATERIALS

1. SOD SHOULD BE MACHINE CUT AT A UNIFORM SOIL THICKNESS OF 3/4" INCH (± 1/4" INCH) AT THE TIME OF CUTTING. THIS THICKNESS SHOULD EXCLUDE SHOOT GROWTH AND THATCH.
2. PIECES OF SOD SHOULD BE CUT TO THE SUPPLIER'S STANDARD WIDTH AND LENGTH, WITH A MAXIMUM ALLOWABLE DEVIATION IN ANY DIMENSION OF 5%. TORN OR UNEVEN PADS SHOULD NOT BE ACCEPTABLE.
3. STANDARD SIZE SECTIONS OF SOD SHOULD BE STRONG ENOUGH TO SUPPORT THEIR OWN WEIGHT, MAINTAIN THEIR SIZE AND SHAPE WHEN SUBSEQUENT ROWS PLACED PARALLEL TO AND BUTTING TIGHTLY AGAINST EACH OTHER. LATERAL JOINTS SHOULD BE STAGGERED TO PROMOTE MORE UNIFORM GROWTH AND STRENGTH. CARE SHOULD BE EXERCISED TO ENSURE THAT SOD IS NOT STRETCHED OR OVERLAPPED AND THAT ALL JOINTS ARE BUTTED TIGHT IN ORDER TO PREVENT VOIDS WHICH WOULD CAUSE DRYING OF THE ROOTS (SEE FIGURE ABOVE).
4. SOD SHOULD BE HARVESTED, DELIVERED, AND INSTALLED WITHIN A PERIOD OF 36 HOURS.

SITE PREPARATION

1. PRIOR TO SOD PREPARATION, AREAS TO BE SODDED SHOULD BE BROUGHT TO FINAL GRADE IN ACCORDANCE WITH THE APPROVED PLAN.
2. THE SURFACE SHOULD BE CLEARED OF ALL TRASH, DEBRIS AND OF ALL ROOTS, BRUSH, WIRE, GRADE STAKES AND OTHER OBJECTS THAT WOULD INTERFERE WITH PLANTING, FERTILIZING OR MAINTENANCE OPERATIONS.
3. FERTILIZE ACCORDING TO SOIL TESTS. FERTILIZER NEEDS CAN BE DETERMINED BY A SOIL TESTING LABORATORY OR REGIONAL RECOMMENDATIONS CAN BE MADE BY COUNTY AGRICULTURAL EXTENSION AGENTS. FERTILIZER SHOULD BE WORKED INTO THE SOIL TO A DEPTH OF 3 INCHES WITH A DISC, SPRINGTOOTH HARROW OR OTHER SUITABLE EQUIPMENT. ON SLOPING LAND, THE FINAL HARROWING OR DISCING OPERATION SHOULD BE ON THE CONTOUR.

INSTALLATION IN CHANNELS

1. SOD STRIPS IN WATERWAYS SHOULD BE LAID PERPENDICULAR TO THE DIRECTION OF FLOW. CARE SHOULD BE TAKEN TO BUTT ENDS OF STRIPS TIGHTLY (SEE FIGURE ABOVE).
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 AREAS.

SOD INSTALLATION DETAIL

NOT-TO-SCALE

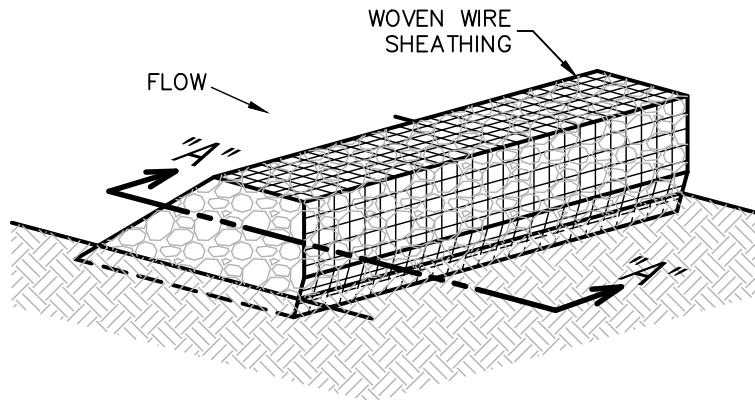
COMMON TROUBLE POINTS

1. INADEQUATE RUNOFF CONTROL-SEDIMENT WASHES ONTO PUBLIC ROAD.
2. STONE TOO SMALL OR GEOTEXTILE FABRIC ABSENT, RESULTS IN MUDDY CONDITION AS STONE IS PRESSED INTO SOIL.
3. 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.

INSPECTION AND MAINTENANCE GUIDELINES

1. THE ENTRANCE SHOULD BE MAINTAINED IN A CONDITION, WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT.
2. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHTS-OF-WAY SHOULD BE REMOVED IMMEDIATELY BY CONTRACTOR.
3. WHEN NECESSARY, WHEELS SHOULD BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTRANCE ONTO PUBLIC RIGHT-OF-WAY.
4. WHEN WASHING IS REQUIRED, IT SHOULD BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE THAT DRAINS INTO AN APPROVED SEDIMENT TRAP OR SEDIMENT BASIN.
5. ALL SEDIMENT SHOULD BE PREVENTED FROM ENTERING ANY STORM DRAIN, DITCH OR WATER COURSE BY USING APPROVED METHODS.

ISOMETRIC PLAN VIEW



ROCK BERMS

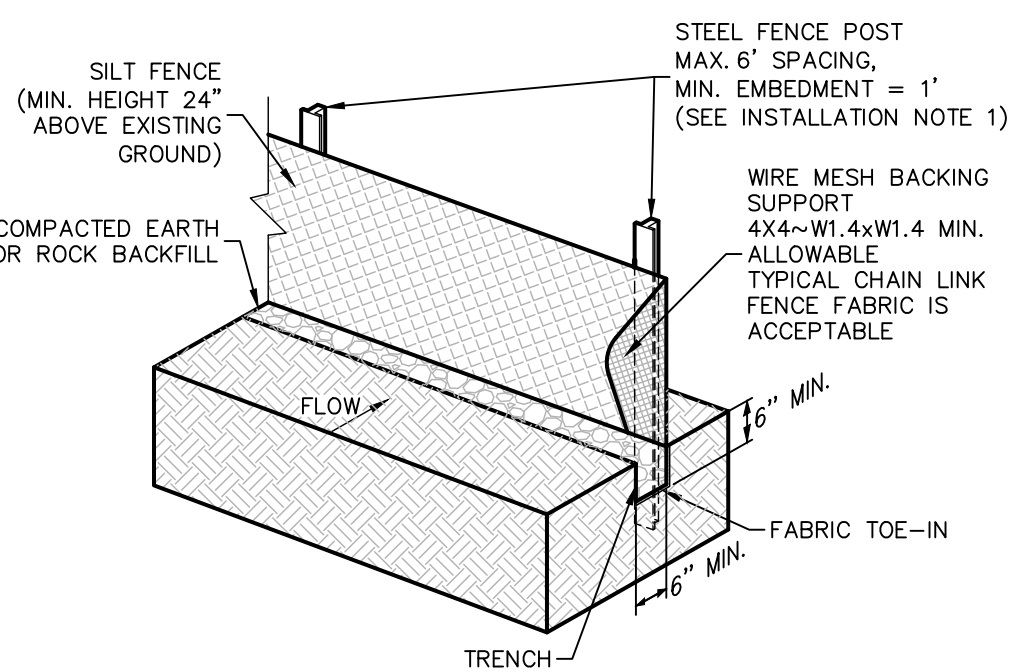
THE PURPOSE OF A ROCK BERM IS TO SERVE AS A CHECK DAM IN AREAS OF CONCENTRATED FLOW, TO INTERCEPT SEDIMENT-LADEN RUNOFF, DETAIN THE SEDIMENT AND RELEASE THE WATER IN SHEET FLOW. THE ROCK BERM SHOULD BE USED WHEN THE CONTRIBUTING DRAINAGE AREA IS LESS THAN 5 ACRES. ROCK BERMS ARE USED IN AREAS WHERE THE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

INSPECTION AND MAINTENANCE GUIDELINES

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

ROCK BERM DETAIL

NOT-TO-SCALE



ISOMETRIC PLAN VIEW

SILT FENCE

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

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

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

MATERIALS

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

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

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

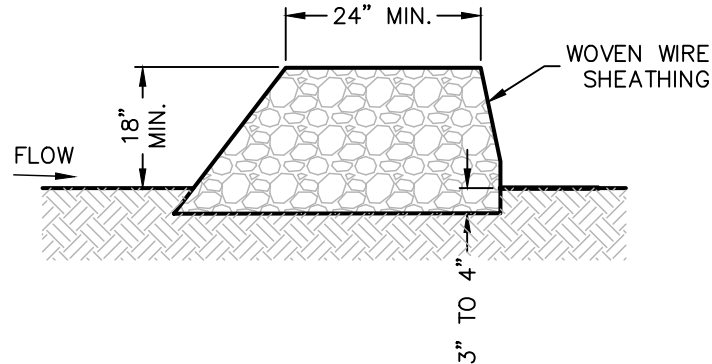
INSTALLATION

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

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 ¼ ACRE/100 FEET OF FENCE.

SILT FENCE DETAIL

NOT-TO-SCALE



SECTION "A-A"

MATERIALS

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

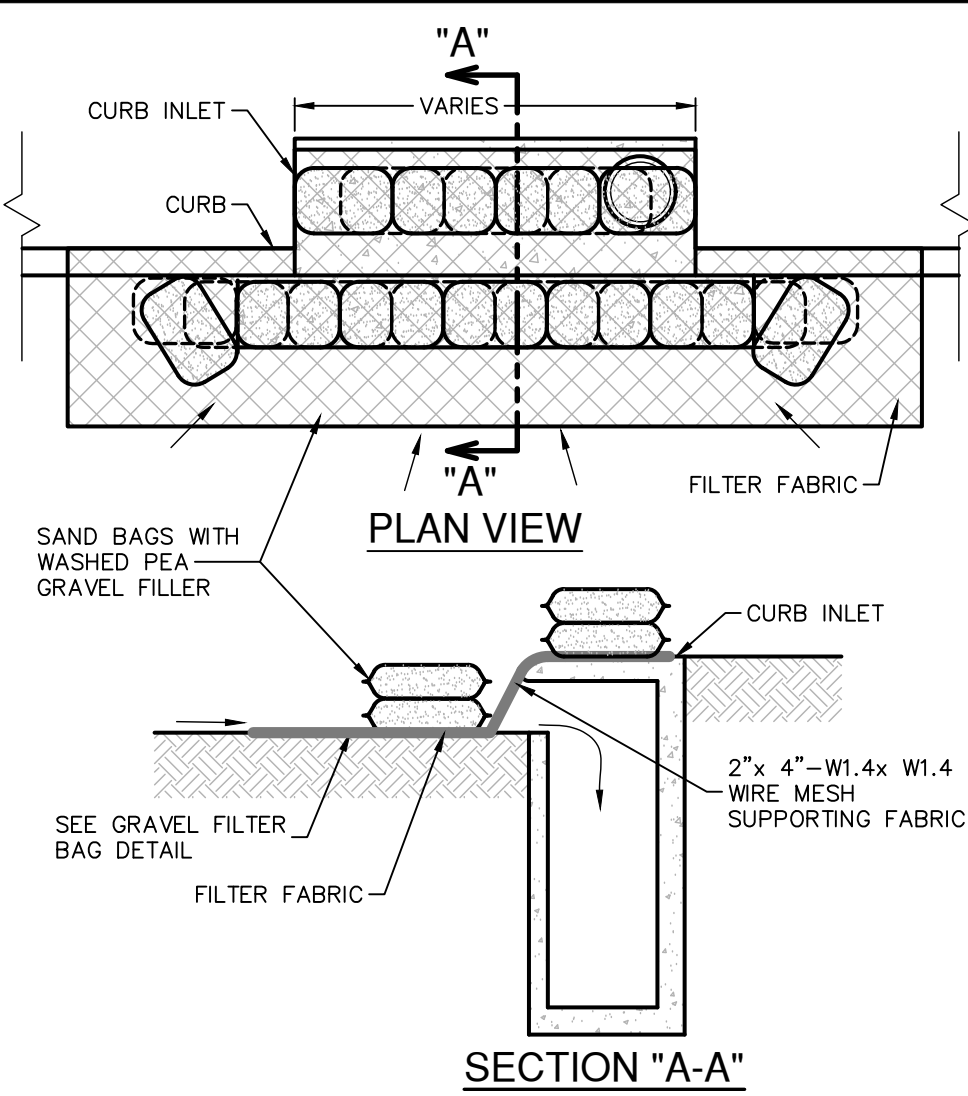
2. CLEAN, OPEN GRADED 3-INCH TO 5-INCH DIAMETER ROCK SHOULD BE USED, EXCEPT IN AREAS WHERE HIGH VELOCITIES OR LARGE VOLUMES OF FLOW ARE EXPECTED, WHERE 5-INCH TO 8-INCH DIAMETER ROCKS MAY BE USED.

INSTALLATION

1. LAY OUT THE WOVEN WIRE SHEATHING PERPENDICULAR TO THE FLOW LINE. THE SHEATHING SHOULD BE 20 GAUGE WOVEN WIRE MESH WITH 1 INCH OPENINGS.
2. BERM SHOULD HAVE A TOP WIDTH OF 2 FEET MINIMUM WITH SIDE SLOPES BEING 2:1 (H:V) OR FLATTER.
3. PLACE THE ROCK ALONG THE SHEATHING AS SHOWN IN THE DIAGRAM TO A HEIGHT NOT LESS THAN 18".
4. WRAP THE WIRE SHEATHING AROUND THE ROCK AND SECURE WITH TIE WIRE SO THAT THE ENDS OF THE SHEATHING OVERLAP AT LEAST 2 INCHES, AND THE BERM RETAINS ITS SHAPE WHEN WALKED UPON.
5. BERM SHOULD BE BUILT ALONG THE CONTOUR AT ZERO PERCENT GRADE OR AS NEAR AS POSSIBLE.
6. THE ENDS OF THE BERM SHOULD BE TIED INTO EXISTING UPSLOPE GRADE AND THE BERM SHOULD BE BURIED IN A TRENCH APPROXIMATELY 3 TO 4 INCHES DEEP TO PREVENT FAILURE OF THE CONTROL.

COMMON TROUBLE POINTS

1. 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).



GENERAL NOTES

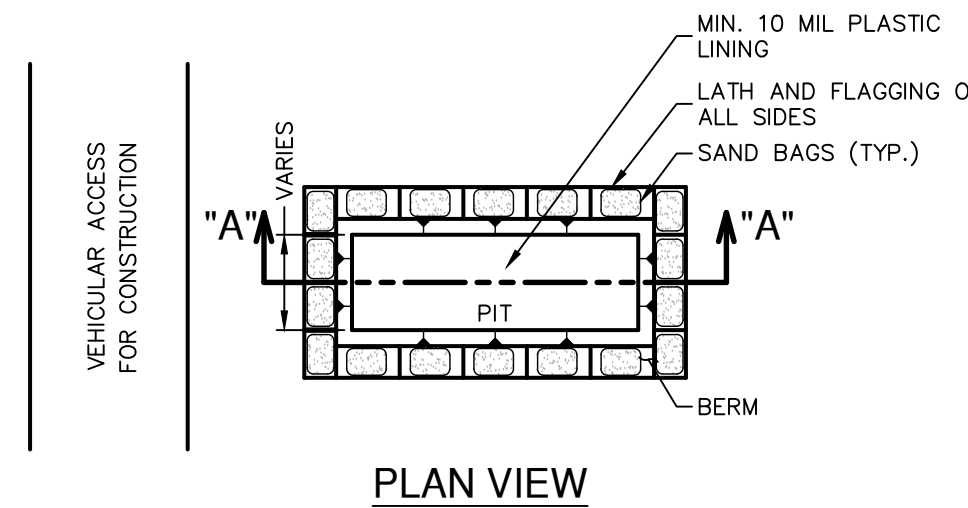
1. CONTRACTOR TO INSTALL 2"x4"-W1.4xW1.4 WIRE MESH SUPPORTING FILTER FABRIC OVER THE INLET OPENING. FABRIC MUST BE SECURED TO WIRE BACKING WITH CLIPS OR WIRE TIES AT THIS LOCATION. SAND BAGS FILLED WITH WASHED PEA GRAVEL SHOULD BE PLACED ON TOP OF WIRE MESH ON TOP OF THE INLET AS SHOWN ON THIS DETAIL TO HOLD WIRE MESH IN PLACE. SANDBAGS FILLED WITH WASHED PEA GRAVEL SHOULD ALSO BE PLACED ALONG THE CUTTER 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 AROUND EACH OTHER TO PREVENT RUNOFF FROM FLOWING BETWEEN THE BAGS.

INSPECTION AND MAINTENANCE GUIDELINES

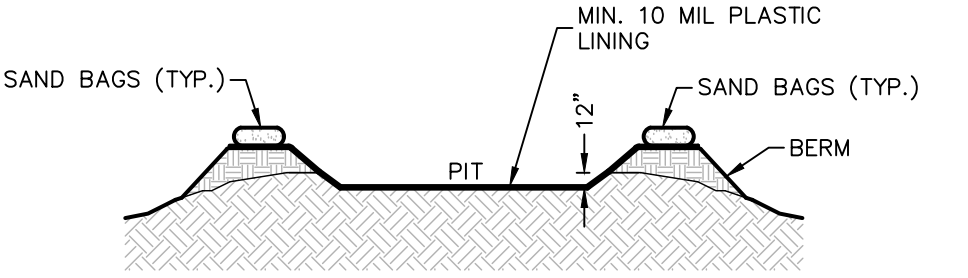
1. INSPECTION SHOULD BE MADE WEEKLY AND AFTER EACH RAINFALL. REPAIR OR REPLACEMENT SHOULD BE MADE PROMPTLY AS NEEDED BY THE CONTRACTOR.
2. REMOVE SEDIMENT WHEN BUILDUP REACHES A DEPTH OF 3 INCHES. REMOVED SEDIMENT SHOULD BE DEPOSITED IN A SUITABLE AREA AND IN SUCH A MANNER THAT IT WILL NOT ERODE.
3. CHECK PLACEMENT OF DEVICE TO PREVENT GAPS BETWEEN DEVICE AND CURB.
4. INSPECT FILTER FABRIC AND PATCH OR REPLACE IF TORN OR MISSING.
5. 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

1. 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.
3. 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.
5. 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.

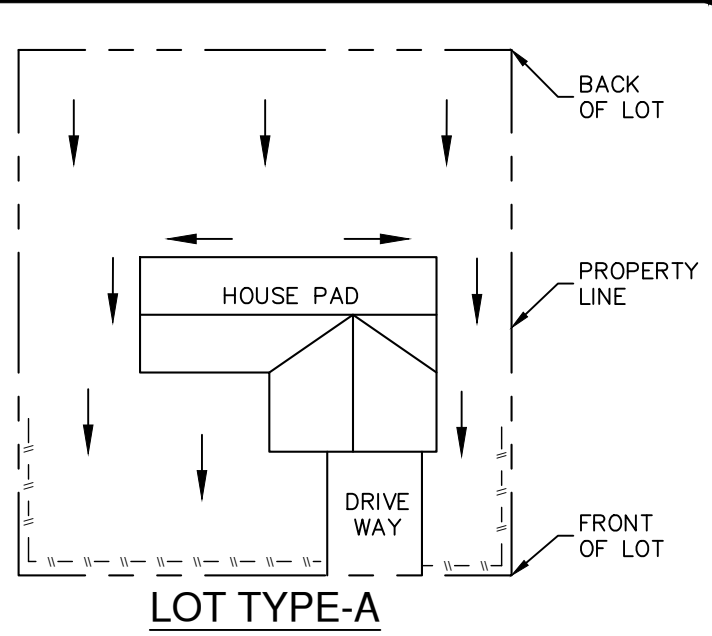
MAINTENANCE

1. WHEN TEMPORARY CONCRETE WASHOUT FACILITIES ARE NO LONGER REQUIRED FOR THE WORK, THE HARDENED CONCRETE SHOULD BE REMOVED AND DISPOSED OF.
2. MATERIALS USED TO CONSTRUCT TEMPORARY CONCRETE WASHOUT FACILITIES SHOULD BE REMOVED FROM THE SITE OF THE WORK AND DISPOSED OF.
3. HOLES, DEPRESSIONS OR OTHER GROUND DISTURBANCES CAUSED BY THE REMOVAL OF THE TEMPORARY CONCRETE WASHOUT FACILITIES SHOULD BE BACKFILLED AND REPAIRED.

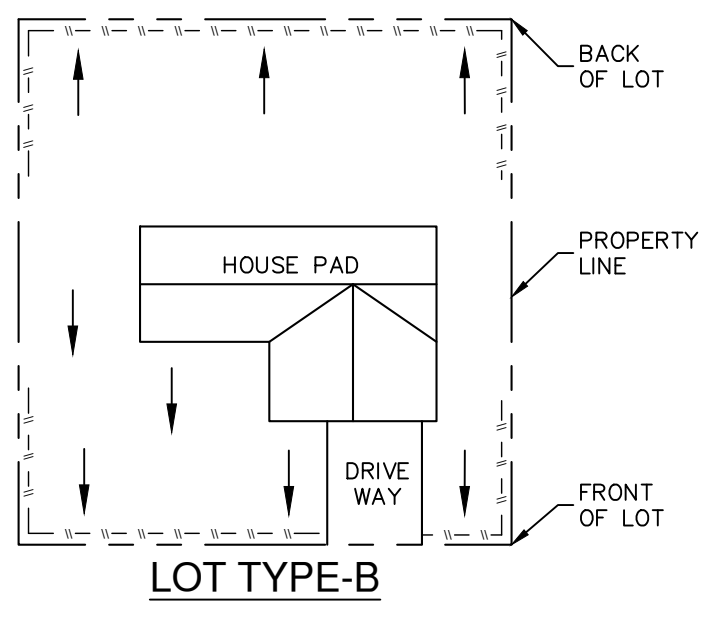
CONCRETE TRUCK WASHOUT

PIT DETAIL

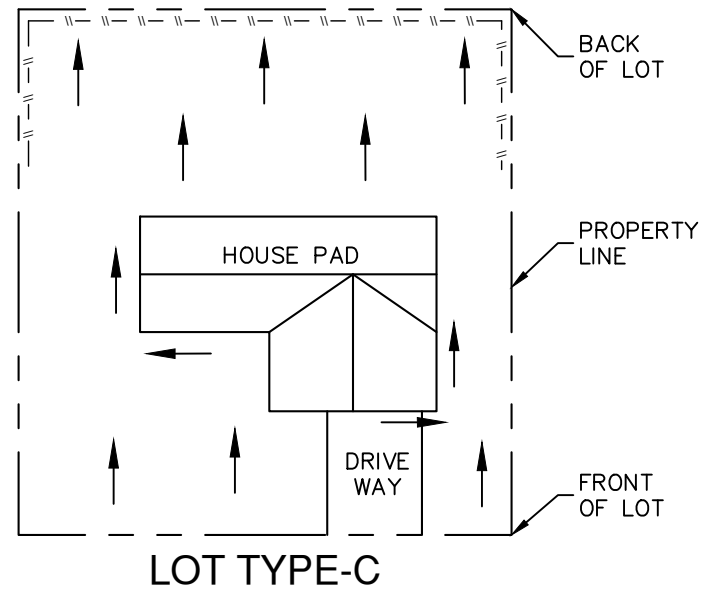
NOT-TO-SCALE



LOT TYPE-A



LOT TYPE-B



LOT TYPE-C

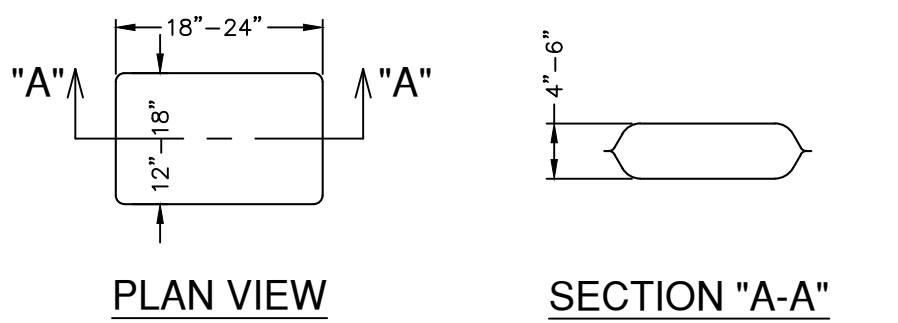
NOTE: SILT FENCE TO BE INSTALLED PER THESE DETAILS AND LOCATED ON THE DOWNGRADE SIDE OF EACH LOT LINE OR LIMITS OF CLEARING AS GENERALLY SHOWN ON THE OVERALL SITE PLAN.

LEGEND

--- SILT FENCE
--- DRAINAGE FLOW

TYPICAL HOUSE LOT LAYOUTS

NOT-TO-SCALE



PLAN VIEW

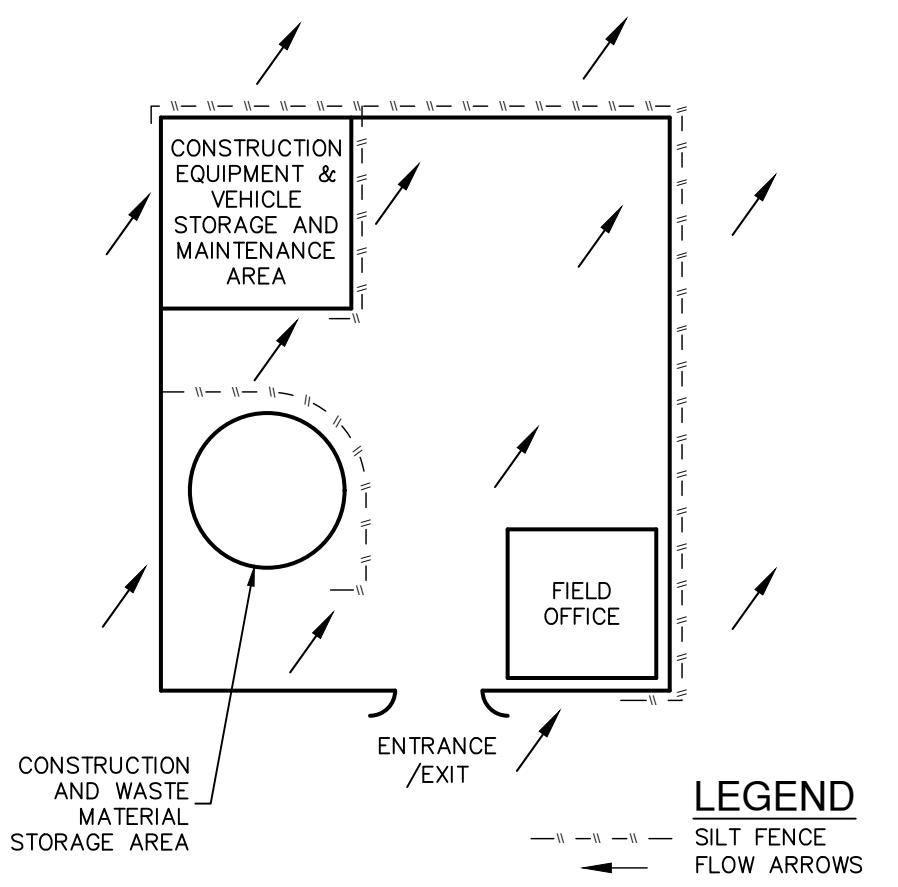
SECTION "A-A"

NOTES:
1. 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%.

2. THE FILTER BAG SHALL BE FILLED WITH CLEAN, MEDIUM WASHED PEA GRAVEL TO COARSE GRAVEL (0.31 TO 0.75 INCH DIAMETER).
3. SAND SHALL NOT BE USED TO FILL THE FILTER BAGS.

GRAVEL FILTER BAG DETAIL

NOT-TO-SCALE



LEGEND

--- SILT FENCE
--- FLOW ARROWS

CONSTRUCTION STAGING AREA

NOT-TO-SCALE

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

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

EXHIBIT 3

DATE	
NO.	
REVISION	



PAPE-DAWSON ENGINEERS
2000 NW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000
TEXAS ENGINEERING FIRM #470 | TEXAS SURVEYING FIRM #10038600

STONEHILL, UNIT-4A
SAN ANTONIO, TEXAS

STORM WATER POLLUTION PREVENTION DETAILS

PLAT NO.	24-11800201
JOB NO.	12456-16
DATE	MAY 2024
DESIGNER	RA
CHECKED	BL
DRAWN	RA
SHEET	C8.10