

Date: Jun 11, 2026, 11:00am User ID: drcrfrs
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6/10/2026

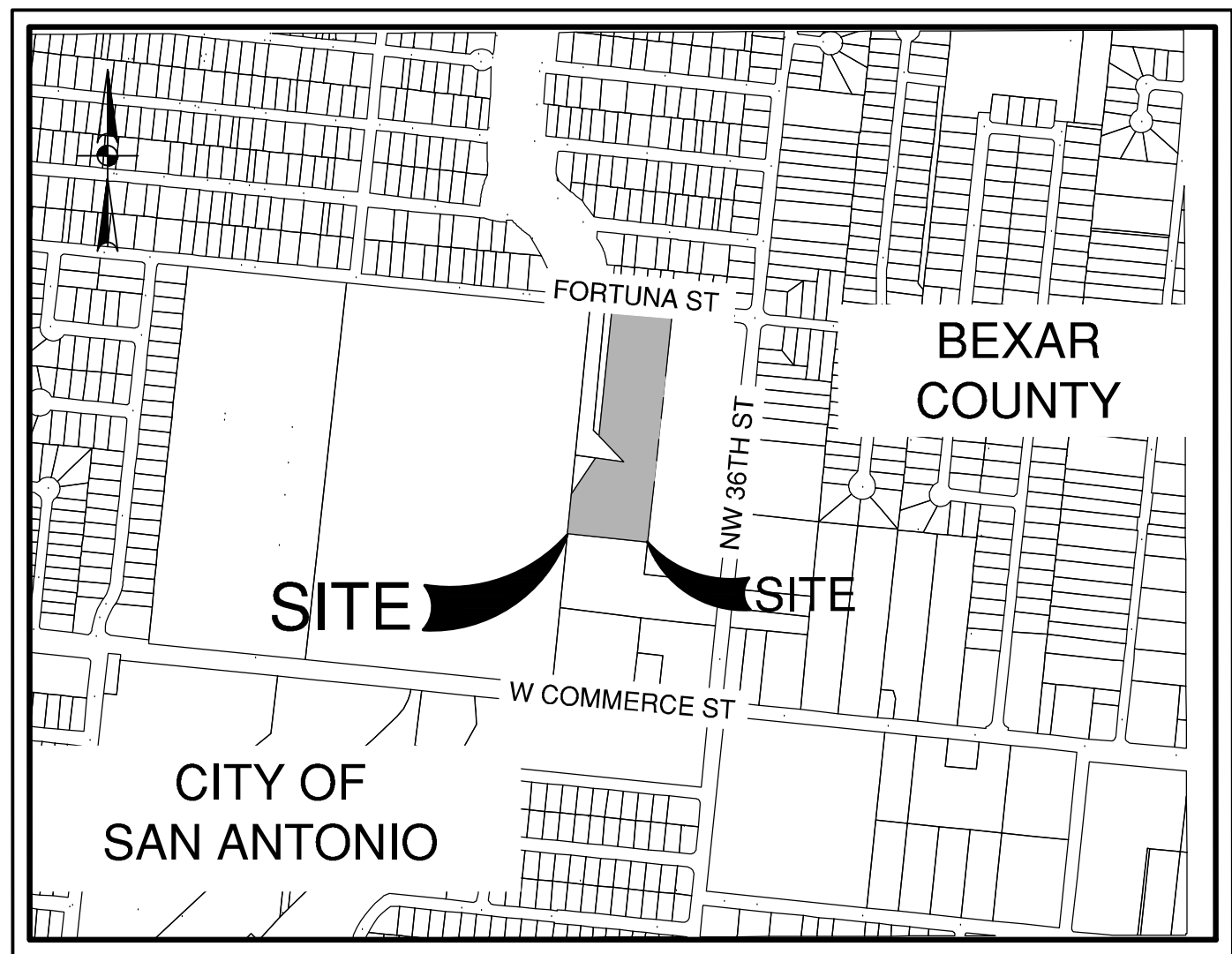
1 UPDATED DEVELOPER NAME
REVISED TOTAL WATER LF

PLAT NO. 25-11800510 PD JOB NO. 13255-01 FORTUNA

FORTUNA

SAN ANTONIO, TEXAS

CIVIL CONSTRUCTION PLANS



LOCATION MAP
NOT-TO-SCALE

PREPARED FOR:

HAND-UP HOMES, LLC
311 PROBANDT STREET
SAN ANTONIO, TEXAS 78204

MARCH 2026

PAPE-DAWSON

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



Brooke Lindholm
6/11/26

WATER (SAWS PRESSURE ZONE 930)

DEVELOPER'S NAME: HAND-UP HOMES, LLC	
ADDRESS: 311 PROBANDT STREET	
CITY: SAN ANTONIO	STATE: TEXAS ZIP: 78204
PHONE# (210) 223-5203	
SAWS BLOCK MAP# 136582 TOTAL EDU'S 28 TOTAL ACREAGE 4.653	
TOTAL LINEAR FOOTAGE OF PIPE: 8" ~ 795 LF PLAT NO. 25-11800510	
NUMBER OF LOTS 28	SAWS JOB NO. 26-1044

SEWER (MIDDLE-CENTRAL SEWERSHED-DOS RIOS/LEON CREEK)

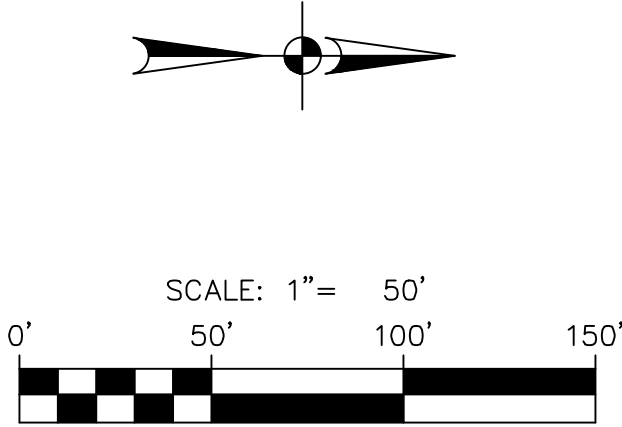
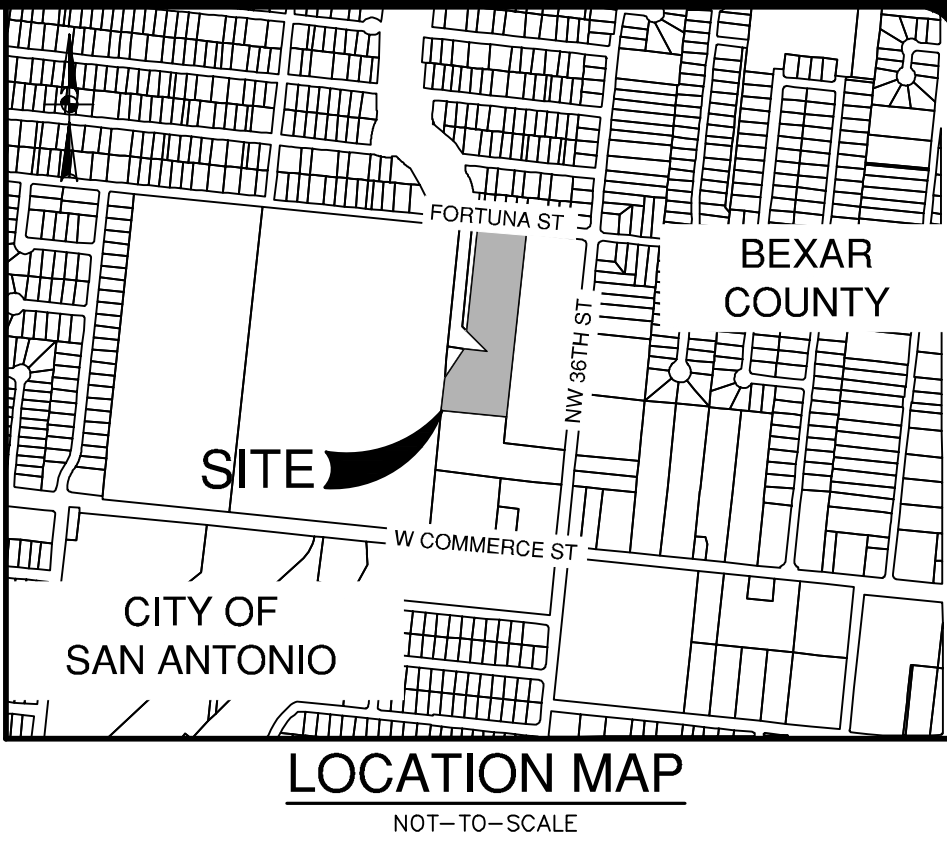
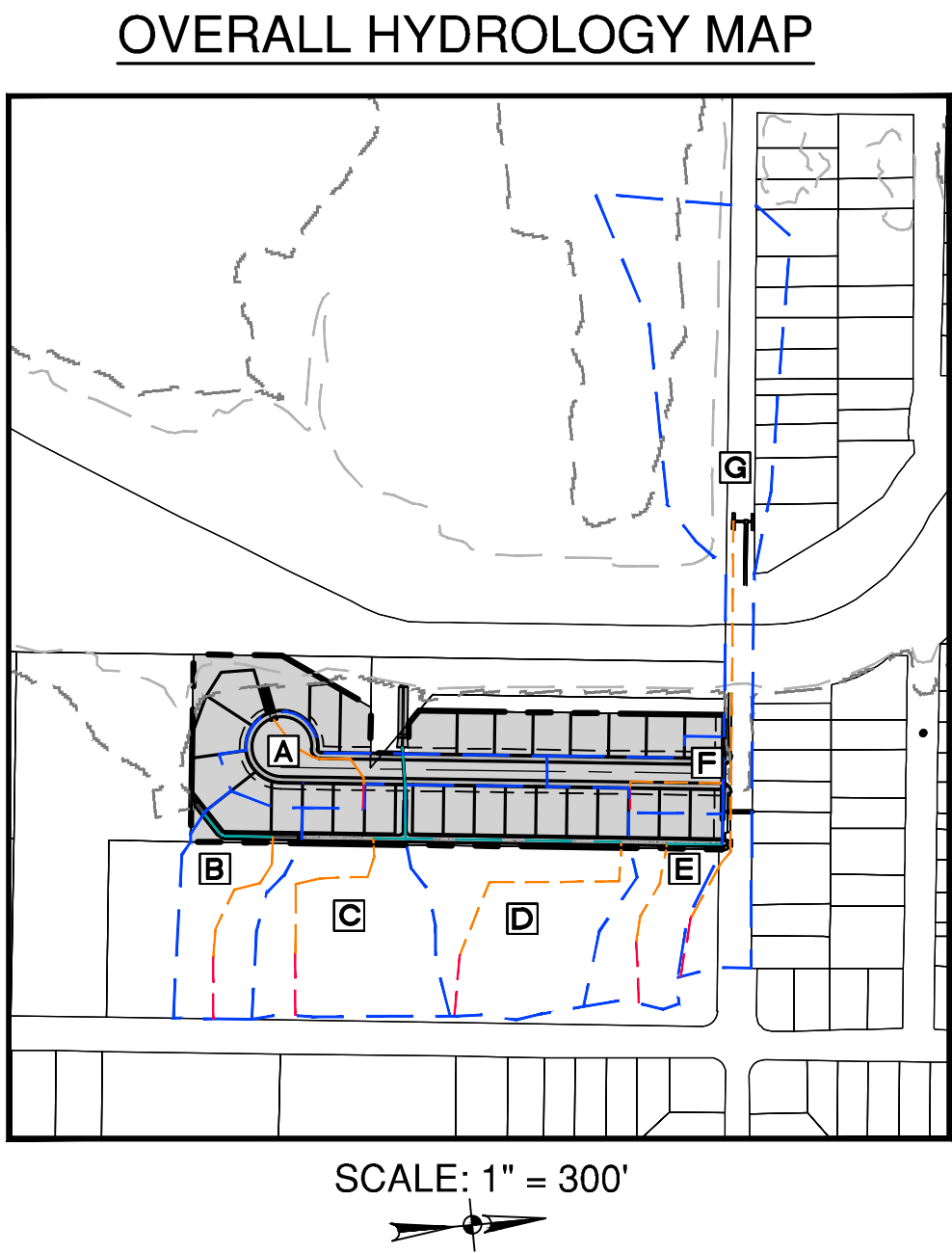
DEVELOPER'S NAME: HAND-UP HOMES, LLC	
ADDRESS: 311 PROBANDT STREET	
CITY: SAN ANTONIO	STATE: TEXAS ZIP: 78204
PHONE# (210) 223-5203	
SAWS BLOCK MAP# 136582 TOTAL EDU'S 28 TOTAL ACREAGE 4.653	
TOTAL LINEAR FOOTAGE OF PIPE: 8" ~ 795 LF PLAT NO. 25-11800510	
NUMBER OF LOTS 28	SAWS JOB NO. 26-1535

Sheet List Table

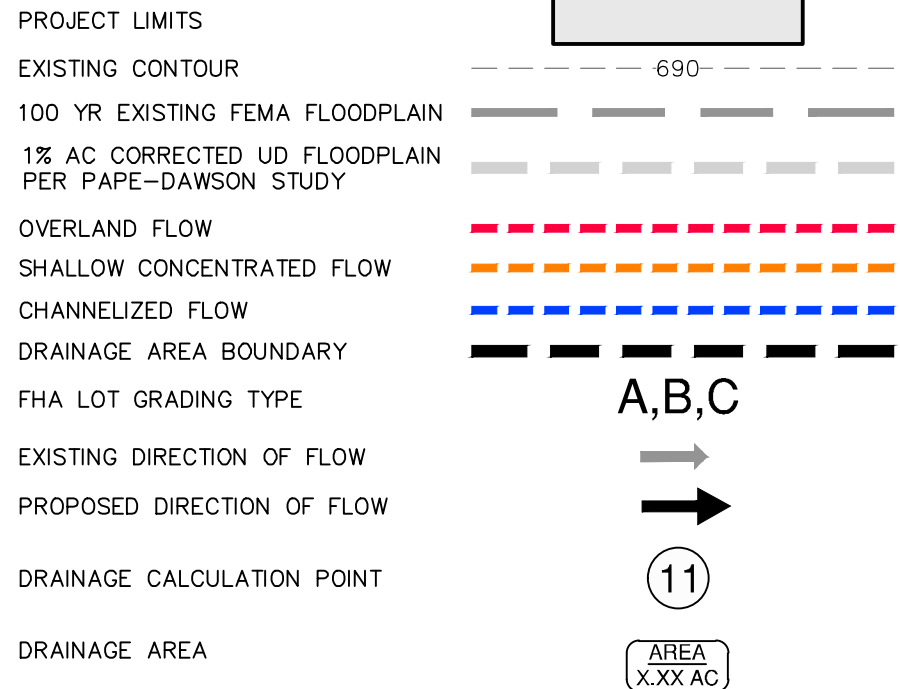
Sheet Number	Sheet Description	Sheet Title
C0.00		COVER SHEET
C1.00		MASTER DRAINAGE
C1.01	(STA. 1+04.96 TO END)	DRAIN A PLAN & PROFILE
C1.02	(STA. 1+05.00 TO END)	DRAIN B PLAN & PROFILE
C1.03	(STA. 1+00.00 TO END)	DRAIN C PLAN & PROFILE
C1.04	(STA. 1+00.00 TO END)	DRAIN D PLAN & PROFILE
C1.05	(STA. 1+12.88 TO END)	DRAIN E PLAN & PROFILE
C1.06	(STA. 1+05.57 TO END)	DRAIN F PLAN & PROFILE
C1.10		DRAINAGE DETAILS
C2.00	(STA. 1+49.91 TO END)	ROSENSTEIN PLAN & PROFILE
C2.10		STREET DETAILS
C2.11		STREET DETAILS
C2.12		STREET DETAILS
C3.00		OVERALL SIGNAGE PLAN
C3.10		SIGNAGE DETAILS
C3.11		SIGNAGE DETAILS
C4.00		OVERALL WATER DISTRIBUTION PLAN
C4.10		WATER DISTRIBUTION PLAN DETAILS
C4.11		WATER DISTRIBUTION PLAN NOTES
C5.00		OVERALL SANITARY SEWER PLAN
C5.01	(STA. 1+00.00 TO END)	SANITARY SEWER LINE A PLAN & PROFILE
C5.10		SANITARY SEWER DETAILS
C5.11		SANITARY SEWER NOTES
C6.00		OVERALL UTILITY PLAN
C7.00		OVERALL GRADING PLAN
C8.00		STORM WATER POLLUTION PREVENTION PLAN
C8.10		STORM WATER POLLUTION PREVENTION PLAN DETAILS

SHEET C0.00

Ref. Point	Structure / Description	Drainage Areas			Total Flowpath (ft)	Overland/Sheet Flow (Seelye)			Shallow Concentrated Flow - 1					Channelized Flow		Tc-TOT	Rational Method Q=CIA				
		#	Area (Ac)	C		L0 (FT)	S0 (ft/ft)	T0* (MIN)	LSC (FT)	Condition***	Slope (ft/ft)	VSC (FPS)	TSC** (MIN)	LCH (FT)	TCH** (MIN)		IDF Curve:	CoSA A14_P3	Return Year	Intensity (in/hr)	Q (cfs)
1	"DRAIN A" - 1 ~ 5' SIDEWALK BOX	A	0.92	0.72	238	40	0.01	10	198	S	0.01	2.8	1.2	-	-	11	5	6.08	4.0		
2	"DRAIN B" - CULVERT	C + D	4.60	0.74	941	100	0.02	13	402	P	0.02	3.0	2.2	439	1.3	11	25	8.50	5.6		
																11	100	10.64	7.0		
																16	5	5.10	17.4		
3	"DRAIN C" - CONCRETE U-CHANNEL	C	2.01	0.74	446	100	0.02	13	294	P	0.01	2.0	2.4	52	0.2	16	25	7.07	24.1		
																16	100	8.79	29.9		
																15	5	5.28	7.9		
4	"DRAIN D" - CONCRETE U-CHANNEL	D	2.59	0.74	853	100	0.01	15	402	P	0.01	2.0	3.3	351	1.7	15	25	7.32	10.9		
																15	100	9.12	13.6		
																19	5	4.68	8.9		
5	"DRAIN E" - 1 ~ 5' REVERSE SIDEWALK BOX	E	0.98	0.74	359	100	0.01	15	169	P	0.01	2.0	1.4	90	0.9	19	25	6.45	12.4		
																19	100	8.00	15.3		
																17	5	4.94	3.6		
6	STREET FLOW	F	0.52	0.72	196	35	0.01	10	161	S	0.01	2.8	1.0	-	-	17	25	6.84	5.0		
																17	100	8.50	6.2		
																10	5	6.30	2.4		
7	"DRAIN F" - V-SWALE	B	1.18	0.74	454	87	0.02	12	235	P	0.024	3.1	1.2	132	1.0	10	25	8.82	3.3		
																10	100	11.05	4.1		
																14	5	5.47	4.8		
8	"DRAIN B" - EARTHEN CHANNEL	C + D	4.60	0.74	1,002	100	0.01	15	402	P	0.01	2.0	3.3	500	3.1	14	25	7.60	6.6		
																14	100	9.48	8.3		
																21	5	4.43	15.1		
9	EXISTING - 2 ~ 25' CURB INLETS IN SAG	E + F + G	5.12	0.75	758	100	0.01	15	658	S	0.01	3.1	3.5	-	-	21	25	6.12	20.8		
																21	100	7.59	25.8		
																18	5	4.80	18.4		
																18	25	6.63	25.5		
																	18	100	8.24	31.6	



MASTER DRAINAGE LEGEND



DATE

NO. REVISION

STATE OF TEXAS

BROOKE LINDHOLM

117104

REGISTERED PROFESSIONAL ENGINEER

Brooke J. Lindholm

3/24/26

PAPE-DAWSON

2000 NW LOOP 4101 SAN ANTONIO, TX 78213 1210.375.9000

TEXAS ENGINEERING FIRM #470 1 TEXAS SURVEYING FIRM #10028800

FORTUNA

SAN ANTONIO, TEXAS

MASTER DRAINAGE

PLAT NO. 25-11800510

JOB NO. 13255-01

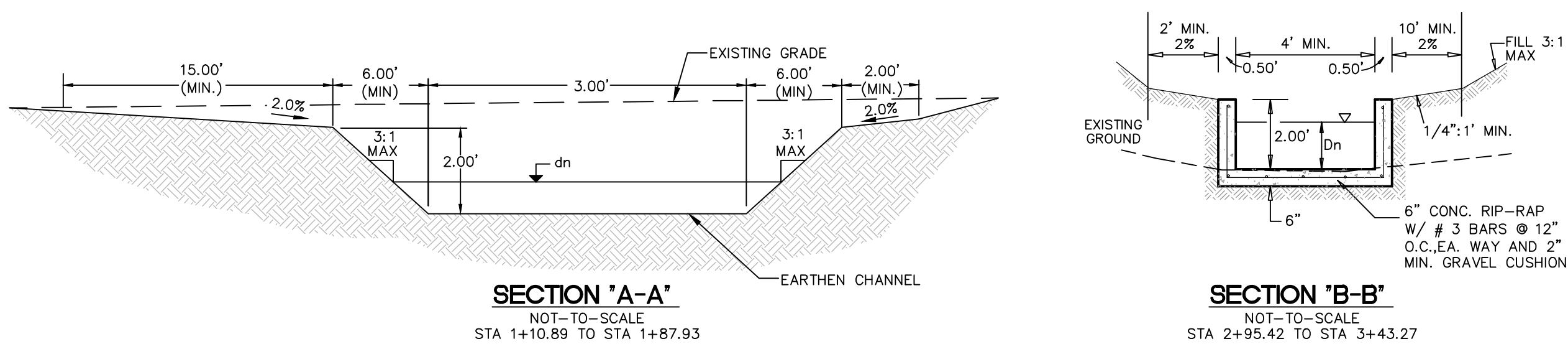
DATE MARCH 2026

DESIGNER RG

CHECKED BL DRAWN AG

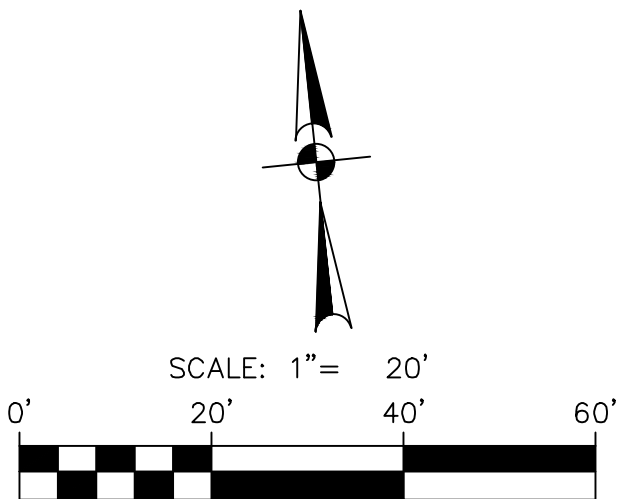
SHEET C1.00

DRAIN A PLAN & PROFILE
(STA. 1+04.96 TO END)



KEYED NOTES:

③ 10' GAS, ELECTRIC, TELEPHONE AND CABLE TV EASEMENT



HYDRAULIC CALCULATIONS
EARTHEN CHANNEL

STA. 1+10.89 TO STA. 1+87.93

Q25 = 20.8 CFS

Bw = 3'

n = 0.035

S = 0.62%

D = 2'

dn = 1.17'

V = 2.72 FPS

T = 0.28 < 1 OK (CLASS C)

HYDRAULIC CALCULATIONS
STORM DRAIN

STA. 2+07.93 TO STA. 2+80.42

Q25 = 24.1 CFS

Sf = 0.35%

Vf = 7.19 FPS

n = 0.013

D = 2.5'

S = 0.62%

Dn = 1.62'

HYDRAULIC CALCULATIONS
CONCRETE U-CHANNEL

STA. 2+95.42 TO STA. 3+43.27

Q25 = 24.1 CFS

Bw = 4'

n = 0.015

S = 0.62%

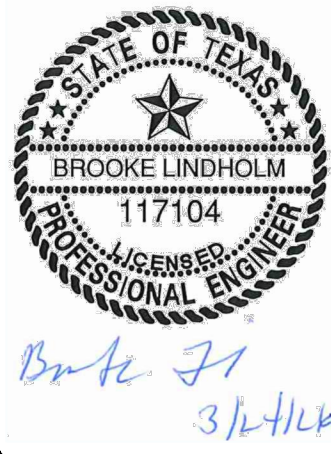
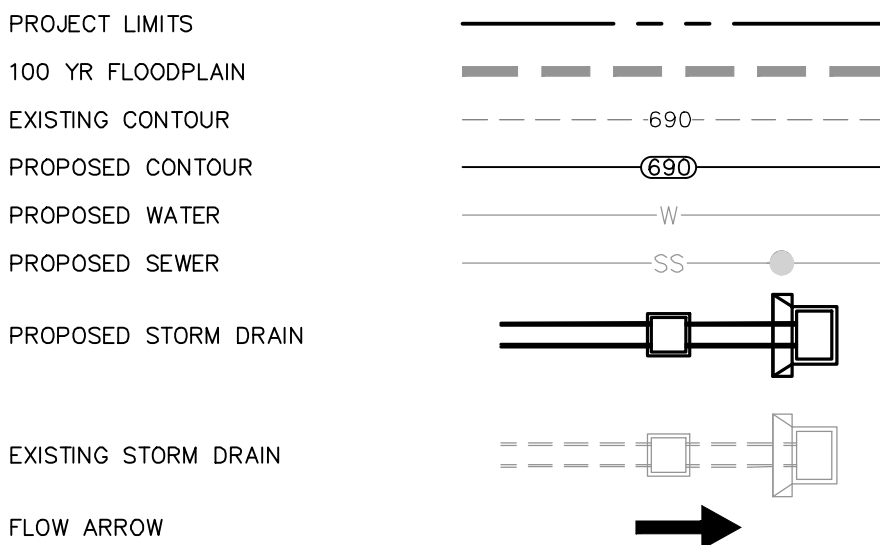
D = 2'

dn = 0.85'

V = 5.82 FPS

T = 0.25 < 25 OK

DRAINAGE LEGEND



PAPE-DAWSON

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

TEXAS ENGINEERING FIRM #470 I TEXAS SURVEYING FIRM #1028800

DRAINAGE & GRADING NOTES:

- A CITY OF SAN ANTONIO ROW PERMIT MUST BE OBTAINED BEFORE WORKING IN THE CITY OF SAN ANTONIO 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.

OPEN EARTHEN CHANNEL NOTE:

CONTRACTOR SHALL REFERENCE TABLE 5.3.8.1 "RETARDATION CLASS FOR LINING MATERIALS" PROVIDED ON SHEET C1.20 AND SUPPLIED RETARDANCE CLASS (RC) FOR CHOICE OF COVER WITHIN OPEN EARTHEN CHANNEL CROSS-SECTIONS.

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.

FORTUNA

SAN ANTONIO, TEXAS

DRAIN B PLAN & PROFILE

(STA. 1+05.00 TO END)

PLAT NO. 25-11800510

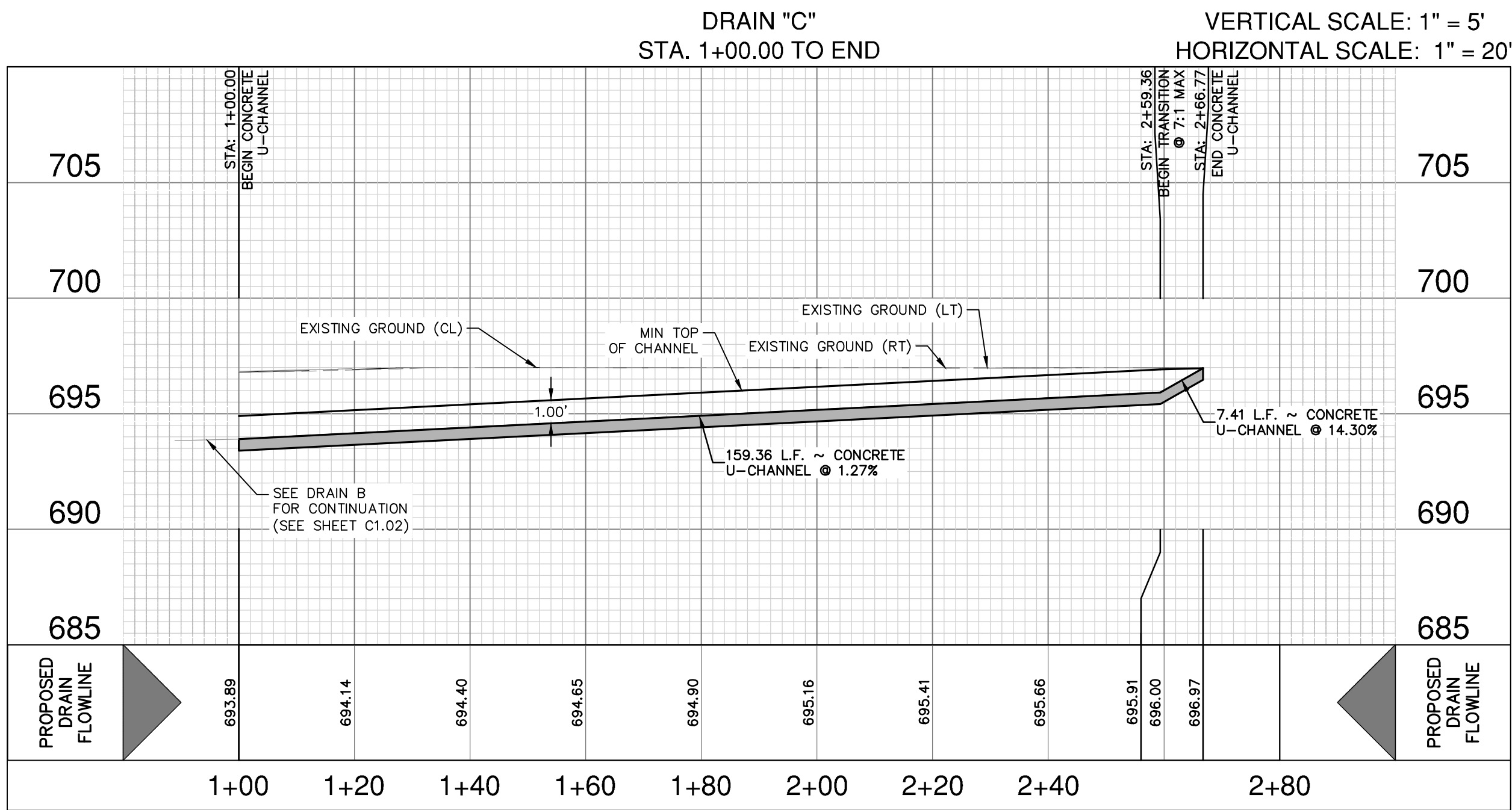
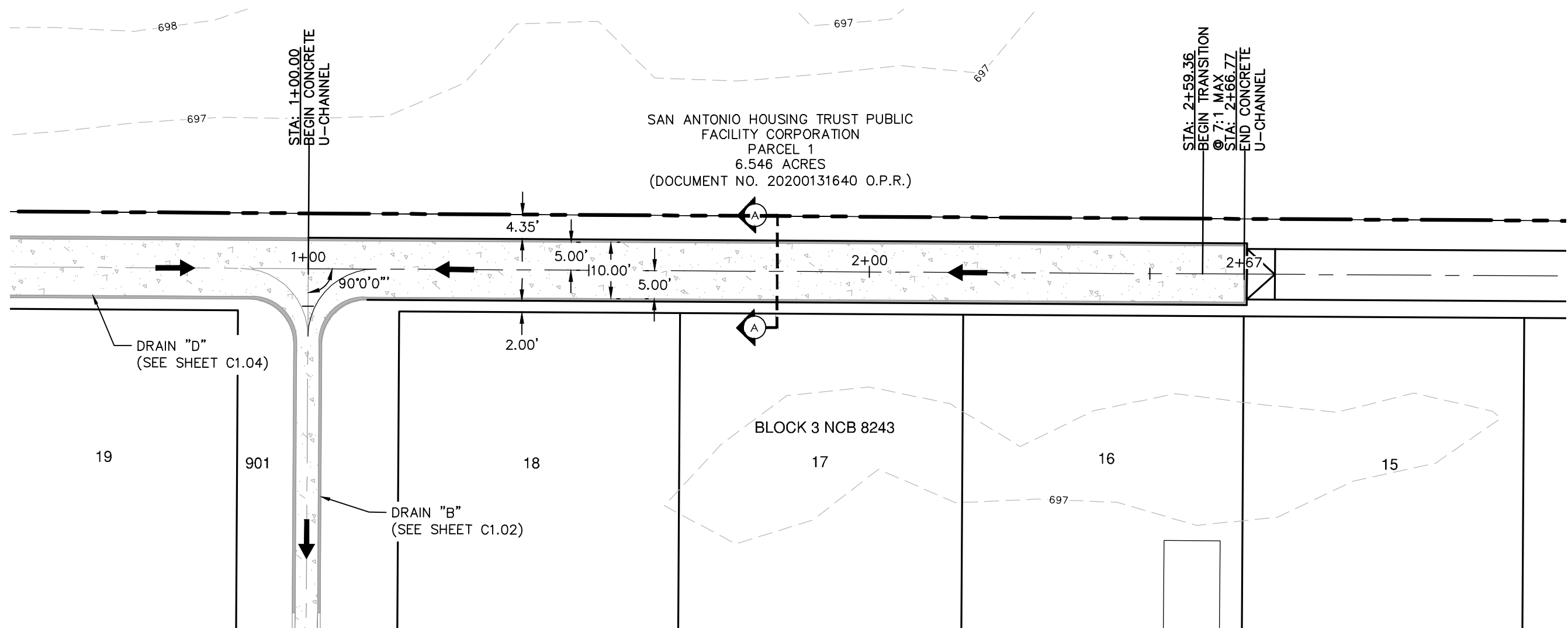
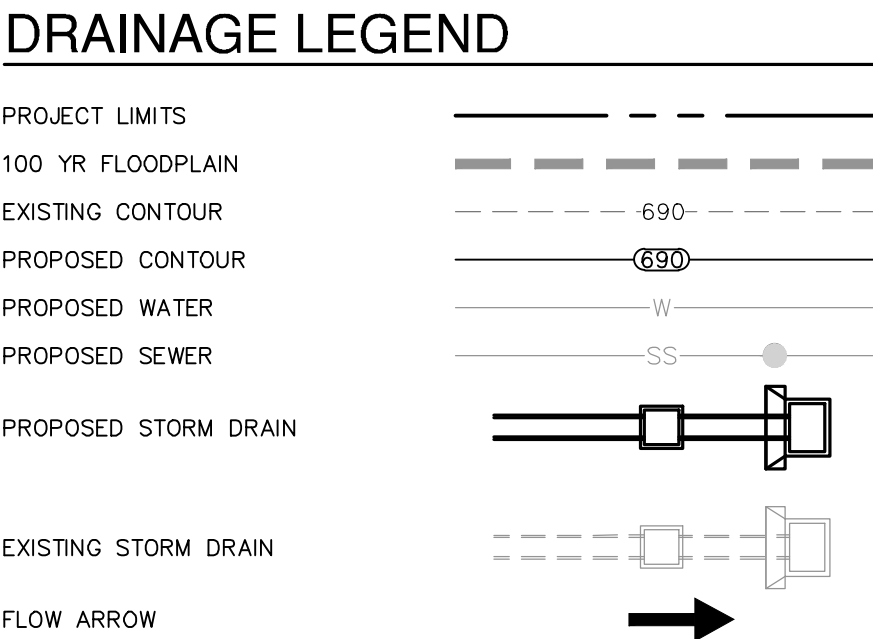
JOB NO. 13255-01

DATE MARCH 2026

DESIGNER RG

CHECKED BL DRAWN AG

SHEET C1.02



- ## 1. DRAINAGE & GRADING NOTES:
1. A CITY OF SAN ANTONIO ROW PERMIT MUST BE OBTAINED BEFORE WORKING IN THE CITY OF SAN ANTONIO ROW. CONTRACTOR SHALL COORDINATE A TRAFFIC CONTROL PLAN FOR ALL WORK WITHIN THE ROW. ADDITIONAL WARNING SIGNS MAY BE RECOMMENDED BY THE ENGINEER ONCE THE ROADWAYS ARE CONSTRUCTED.
 2. THE CONTRACTOR WILL BE RESPONSIBLE FOR DETERMINING EXACT LOCATIONS OF ALL EXISTING UTILITY 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 FOR ANY EXISTING UTILITY FROM PLANS PRIOR TO CONSTRUCTION. ANY DAMAGE TO EXISTING UTILITIES, WHETHER SHOWN ON THE PLANS OR NOT, SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO REPAIR, AT HIS EXPENSE.
 3. ALL CONCRETE FOR TxDOT DRAINAGE STRUCTURES SHALL MEET TxDOT SPECIFICATIONS. ALL OTHER CONCRETE SHALL BE CLASS "A" 3000 PSI CYLINDER STRENGTH IN 28 DAYS.
 4. REFERENCE DRAINAGE DETAILS FOR PIPE TRENCH DETAILS, BOX CULVERT, HEADWALL, AND WINGWALL CONSTRUCTION DETAILS, AND BOX CULVERT BEDDING AND EXCAVATION LIMITS.
 5. CONTRACTOR SHALL GROUT ALL CURB INLETS AND JUNCTION BOXES TO PROVIDE FOR POSITIVE DRAINAGE.
 6. EARTHEN CHANNELS WILL BE VEGETATED BY SEEDING OR SODDING. CONTRACTOR SHALL MAINTAIN THE CHANNELS. THERE MUST HAVE ESTABLISHED VEGETATION BEFORE THE CITY OF SAN ANTONIO WILL ACCEPT.
 7. CONTRACTOR SHALL MATCH TOP OF CHANNEL TO NATURAL GROUND SURFACE. CONTRACTOR SHALL MAINTAIN A MINIMUM CHANNEL DEPTH OF "D" AS SHOWN IN THE PROFILE.

OPEN EARTHEN CHANNEL NOTE:
CONTRACTOR SHALL REFERENCE TABLE 9.3.8.1 - "RETARDATION CLASS FOR LINING MATERIALS" PROVIDED ON SHEET C1.20 AND SUPPLIED RETARDANCE CLASS (RC) FOR CHOICE OF COVER WITHIN OPEN EARTHEN CHANNEL CROSS-SECTIONS.

TRENCH EXCAVATION SAFETY PROTECTION:
CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE FOR STRUCTURAL DESIGN/ GEOTECHNICAL/ SAFETY/EQUIPMENT CONSULTANT, IF ANY, SHALL REVIEW THESE PLANS AND ANY AVAILABLE GEOTECHNICAL INFORMATION AND ADVISE THE CONTRACTOR OF ANY ADVISORY COMMENTS. THE CONTRACTOR 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 SHALL ADVISE ADVISORY COMMENTS TO THE PROJECTS PROGRAMS AND/OR PROCEDURES SHALL PROVIDE FOR ADEQUATE TRENCH EXCAVATION SAFETY PROTECTION THAT COMPLY WITH AS A MINIMUM, OSHA STANDARDS AND REQUIREMENTS. THE CONTRACTOR SHALL ADVISE ADVISORY COMMENTS TO THE PROJECTS PROGRAMS AND/OR PROCEDURES SHALL PROVIDE FOR ADEQUATE TRENCH EXCAVATION SAFETY PROTECTION THAT COMPLY WITH AS A MINIMUM, OSHA STANDARDS AND REQUIREMENTS. THE CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR SAFETY CONSULTANT SHALL IMPLEMENT A TRENCH SAFETY PROGRAM IN ACCORDANCE WITH THE PROJECTS PROGRAMS AND/OR PROCEDURES FOR THE ACTIVITIES OF INDIVIDUALS WORKING IN AND AROUND TRENCH EXCAVATION.

CAUTION!!

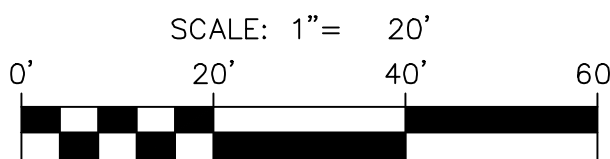
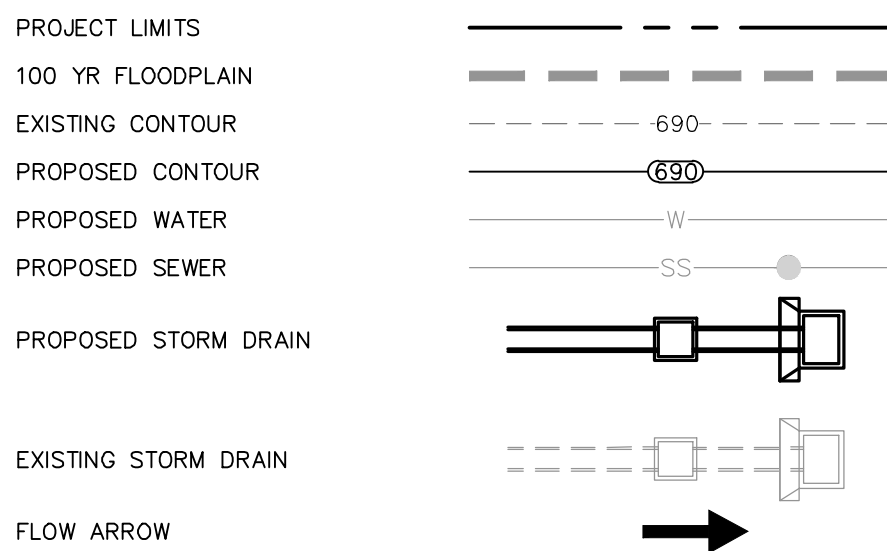
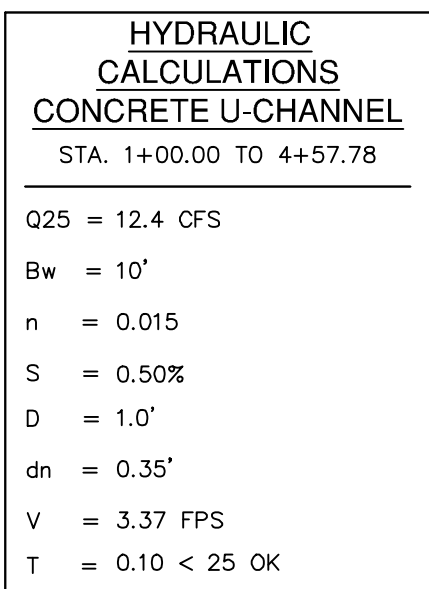
CONTRACTOR SHALL BE REQUIRED TO LOCATE ALL PUBLIC OR PRIVATE UTILITIES INCLUDING BUT NOT LIMITING TO: WATER, SEWER, TELEPHONE AND FIBER OPTIC LINES, SITE LIGHTING ELECTRIC, SECONDARY ELECTRIC, PRIMARY ELECTRICAL DISTRIBUTION, LANDSCAPE IRRIGATION FACILITIES, AND GAS LINES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY 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 REPAIRED BY THE CONTRACTOR AND THE REPAIR SHALL BE AT CONTRACTOR'S SOLE EXPENSE WHETHER THE UTILITY IS SHOWN ON THESE PLANS OR NOT.

[illegible]

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

FORTUNA
SAN ANTONIO, TEXAS
DRAIN C PLAN & PROFILE
(STA. 1+00.00 TO END)

PLAT NO. 25-11800510
JOB NO. 13255-01
DATE MARCH 2026
DESIGNER RG
CHECKED BL DRAWN AG
SHEET C1.03



1. A CITY OF SAN ANTONIO ROAD PERMIT MUST BE OBTAINED BEFORE WORKING IN THE CITY OF SAN ANTONIO ROW. CONTRACTOR SHALL OBTAIN A PLAN FOR A CITY OF SAN ANTONIO ROAD WORK WITHIN THE CITY OF SAN ANTONIO ROW. ADDITIONAL WARNING SIGNS MAY BE RECOMMENDED BY THE ENGINEER ONCE THE ROADWAYS ARE CONSTRUCTED.
2. THE CONTRACTOR WILL BE RESPONSIBLE FOR DETERMINING EXISTING LOCATION OF ALL UTILITIES AND DRAINAGE STRUCTURES WHETHER SHOWN ON THE PLANS OR NOT. THE CONTRACTOR SHALL UNCOVER EXISTING UTILITIES AND DRAINAGE STRUCTURES TO VERIFY SIZE, GRADE AND LOCATION. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY OF ANY DEVIATIONS FROM PLANS PRIOR TO BEGINNING CONSTRUCTION OF ANY NEW UTILITIES. WHETHER SHOWN ON THE PLANS OR NOT, SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO REPAIR, AT HIS EXPENSE.
3. ALL CONCRETE FOR TxDOT DRAINAGE STRUCTURES SHALL MEET TxDOT SPECIFICATIONS. ALL OTHER CONCRETE SHALL BE CLASS "A" 3000 PSI CYLINDER STRENGTH IN 28 DAYS.
4. REFERENCE DRAINAGE DETAILS FOR PIPE TRENCH DETAILS, BOX CULVERT, HEADWALL, AND WINGWALL CONSTRUCTION DETAILS, AND BOX CULVERT BEDDING AND EXCAVATION LIMITS.
5. CONTRACTOR SHALL GROUT ALL CURB INLETS AND JUNCTION BOXES TO PROVIDE FOR POSITIVE DRAINAGE.
6. EARTHEN CHANNELS WILL BE VEGETATED BY SEEDING OR SODDING. 85% OF THE CHANNEL SURFACE MUST HAVE ESTABLISHED VEGETATION BEFORE THE CITY OF SAN ANTONIO WILL ACCEPT.
7. CONTRACTOR SHALL MATCH TOP OF CHANNEL TO NATURAL GROUND AND MAINTAIN A MINIMUM CHANNEL DEPTH OF "D" AS SHOWN IN THE PROFILE.

OPEN EARTHEN CHANNEL NOTE:

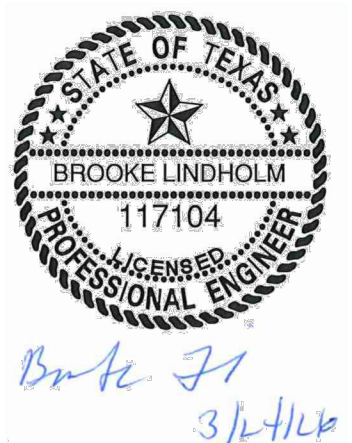
CONTRACTOR SHALL REFERENCE TABLE 9.3.8.1 - "RETARDATION CLASS FOR LINING MATERIALS" PROVIDED ON SHEET C1.20 AND SUPPLIED RETARDANCE CLASS (RC) FOR CHOICE OF COVER WITHIN OPEN EARTHEN CHANNEL CROSS-SECTIONS.

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 AREA AND ADVISE THE CONTRACTOR OF ANY 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 SYSTEMS, PROGRAMS AND/OR PROCEDURES 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 MINIMUM REQUIREMENTS OF THE OSHA 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 EXISTING UTILITIES THAT ARE BEING REMOVED 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.

[illegible]

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

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TEXAS ENGINEERING FIRM #470 | TEXAS SURVEYING FIRM #10028800

FORTUNA
SAN ANTONIO, TEXAS
DRAIN D PLAN & PROFILE
(STA. 1+00.00 TO END)

PLAT NO. 25-11800510
 JOB NO. 13255-01
 DATE MARCH 2026
 DESIGNER RG
 CHECKED BL DRAWN AG
 SHEET C1.04



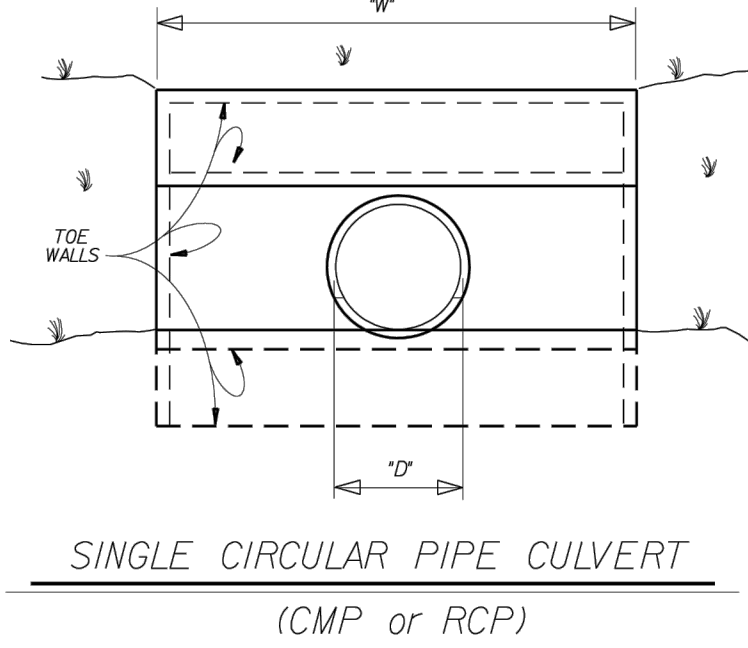
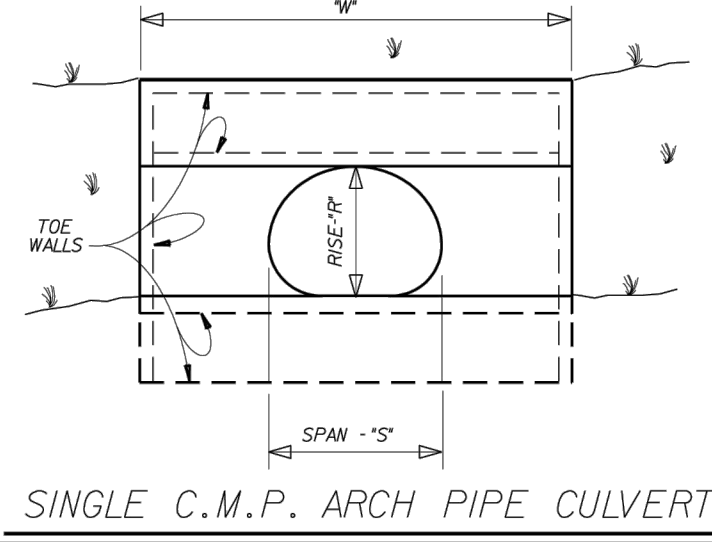
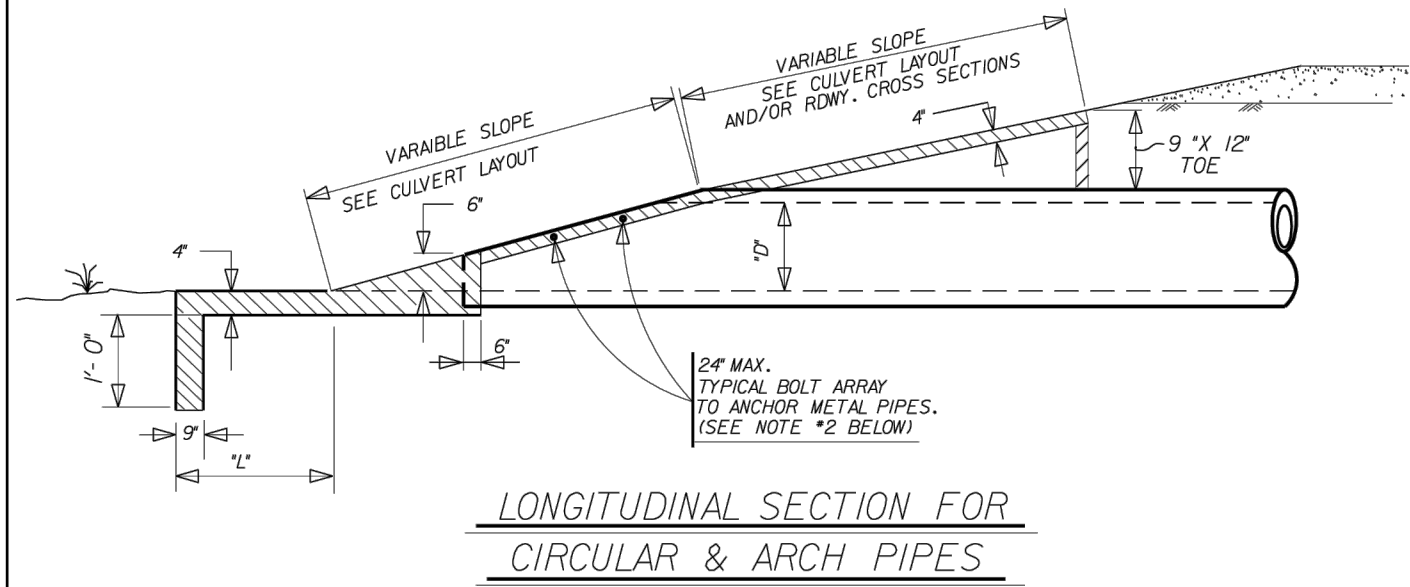


- DRAINAGE & GRADING NOTES:**
- A CITY OF SAN ANTONIO PERMIT MUST BE OBTAINED BEFORE WORKING IN THE CITY OF SAN ANTONIO ROW. CONTRACTOR SHALL COORDINATE A TRAFFIC CONTROL PLAN FOR ALL WORK WITHIN THE ROW. ADDITIONAL WARNING SIGNS MAY BE RECOMMENDED BY THE ENGINEER ONCE THE ROADWAYS ARE CONSTRUCTED.
 - 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.

OPEN EARTHEN CHANNEL NOTE:
CONTRACTOR SHALL REFERENCE TABLE 9.3.8.1 - "RETARDATION CLASS FOR LINING MATERIALS" PROVIDED ON SHEET C1.20 AND SUPPLIED RETARDANCE CLASS (RC) FOR CHOICE OF COVER WITHIN OPEN EARTHEN CHANNEL CROSS-SECTIONS.

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.



DIMENSIONS FOR CIRCULAR (CMP and RCP) PIPE CULVERTS

"I" INSIDE DIA. of PIPE	"I"	"G"		SINGLE	DOUBLE	TRIPLE	QUADRUPLE
		CGM	RCP				
18"	2'-0"	1'-2"	0'-9"	4'-6"	7'-2"	9'-10"	12'-6"
24"	2'-6"	1'-3"	0'-10"	5'-3"	8'-5"	11'-4"	13'-4"
28"	3'-0"	1'-5"	0'-11"	6'-0"	9'-8"	12'-10"	16'-3"
30"	3'-0"	1'-8"	1'-1"	7'-6"	11'-8"	15'-10"	20'-0"
36"	5'-0"	1'-1"	1'-3"	9'-1"	13'-11"	18'-10"	23'-9"
42"	6'-0"	2'-2"	1'-5"	10'-6"	16'-2"	21'-10"	27'-6"
48"	7'-0"	2'-5"	1'-7"	12'-0"	18'-5"	24'-10"	31'-3"
54"	8'-0"	2'-10"	1'-11"	13'-6"	20'-10"	28'-2"	35'-6"
60"	9'-0"	3'-2"	2'-0"	15'-0"	23'-2"	31'-4"	39'-6"

10\"/>

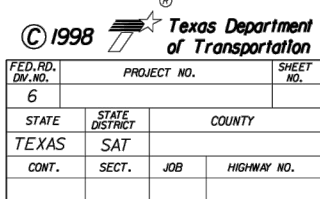
DIMENSIONS FOR C.M.P. ARCH PIPE CULVERTS

DESIGN SIZE	APPROX. ARCH. DIM.		'1'	'0'	SINGLE	DOUBLE	TRIPLE	QUADRUPLE
	SPAN '5"	RISE '10"						
	"W"							
2	2'	15"	2'-0"	1'-2"	4'-3"	7'-2"	10'-1"	13'-0"
3	28"	20"	3'-0"	1'-5"	5'-8"	9'-5"	13'-2"	16'-11"
4	35"	24"	4'-0"	1'-8"	6'-11"	11'-6"	16'-9"	20'-8"
5	42"	29"	5'-0"	1'-11"	8'-4"	13'-1"	19'-2"	24'-7"
6	49"	33"	6'-0"	2'-2"	9'-7"	15'-0"	22'-1"	28'-4"
7	57"	38"	7'-0"	2'-5"	11'-1"	18'-3"	25'-5"	32'-7"
8	64"	43"	8'-0"	2'-8"	12'-5"	20'-8"	28'-10"	37'-0"
9	71"	47"	9'-0"	3'-2"	13'-9"	22'-10"	31'-11"	41'-0"

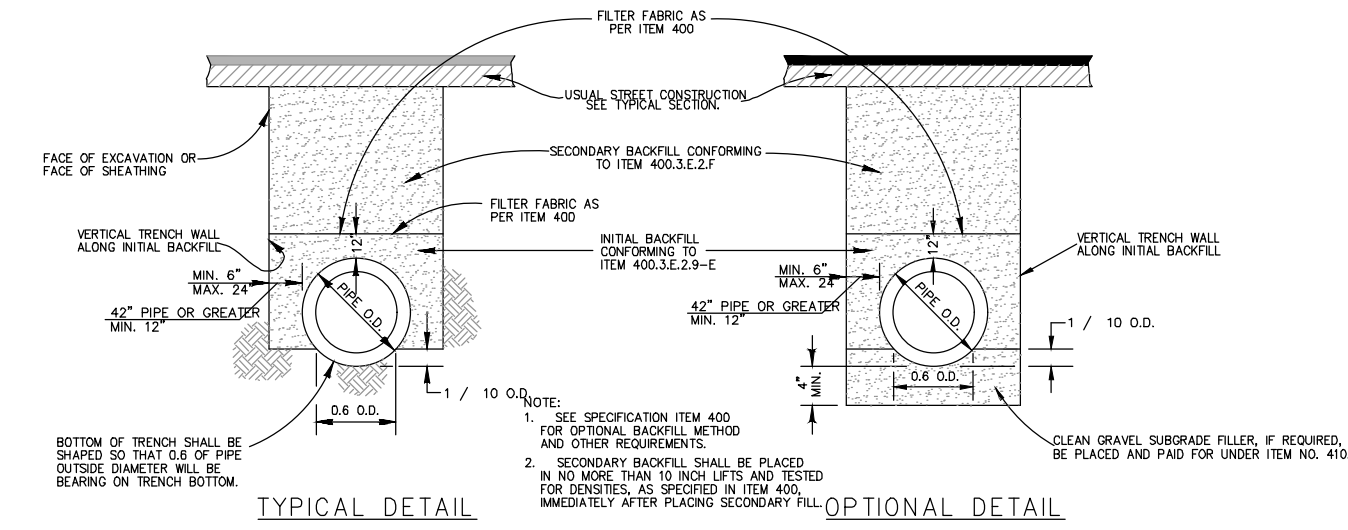
BASED ON 2-2/3\"/>

- NOTES:
- 1.) FOR RIPRAP QUANTITIES AND SLOPES, SEE CULVERT LAYOUT SHEET. CONCRETE SHALL BE CLASS B UNLESS OTHERWISE SHOWN IN THE PLANS.
 - 2.) ALL METAL PIPES (CIRCULAR AND/OR ARCH) SHALL HAVE 5/8\"/>

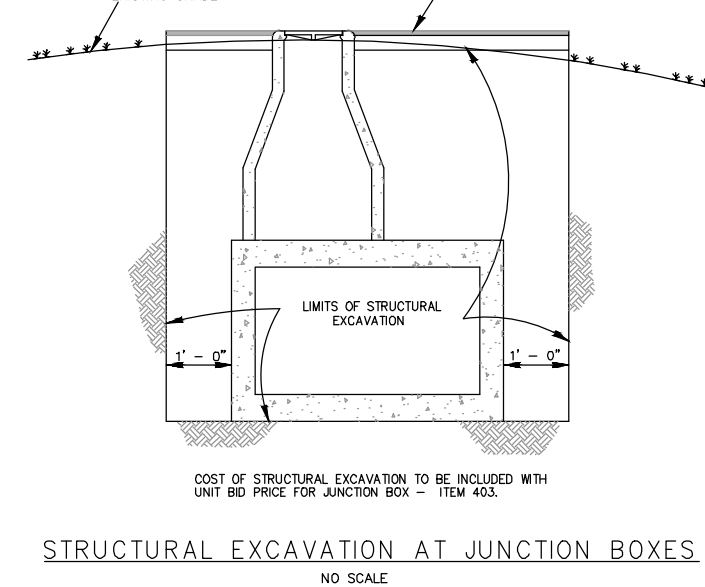
SAN ANTONIO DISTRICT STANDARD RIPRAP HEADWALL



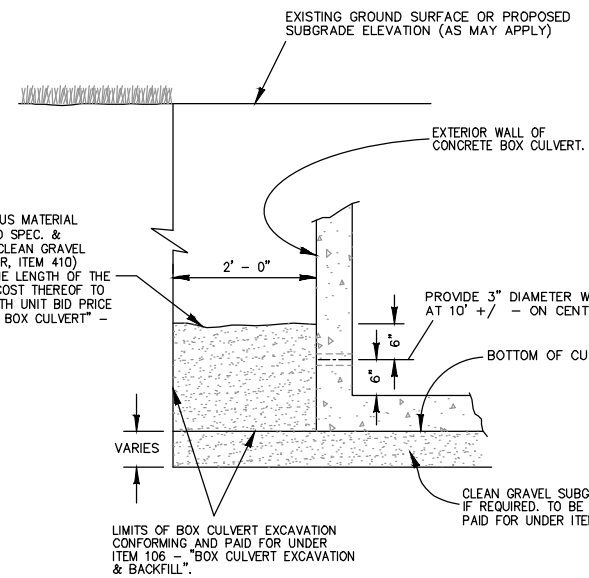
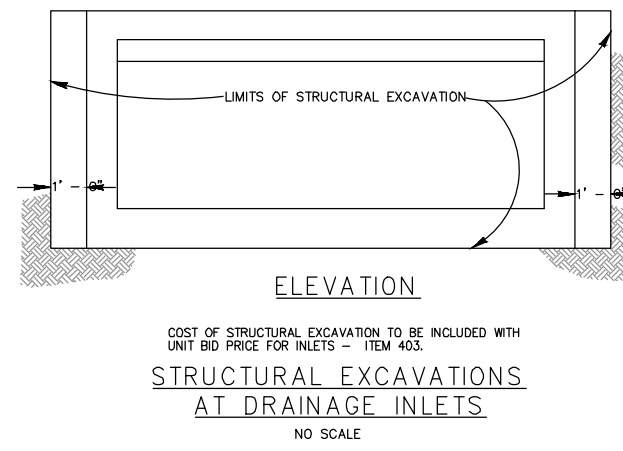
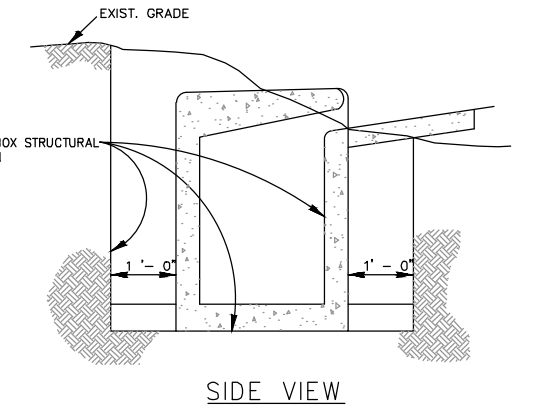
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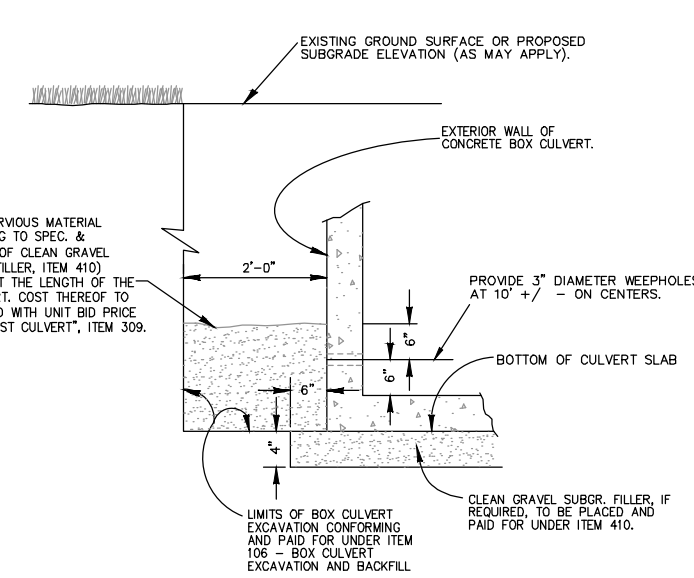
PIPE BEDDING & BACKFILL DETAILS



STRUCTURAL EXCAVATION AT JUNCTION BOXES



CAST-IN-PLACE BOX CULVERT

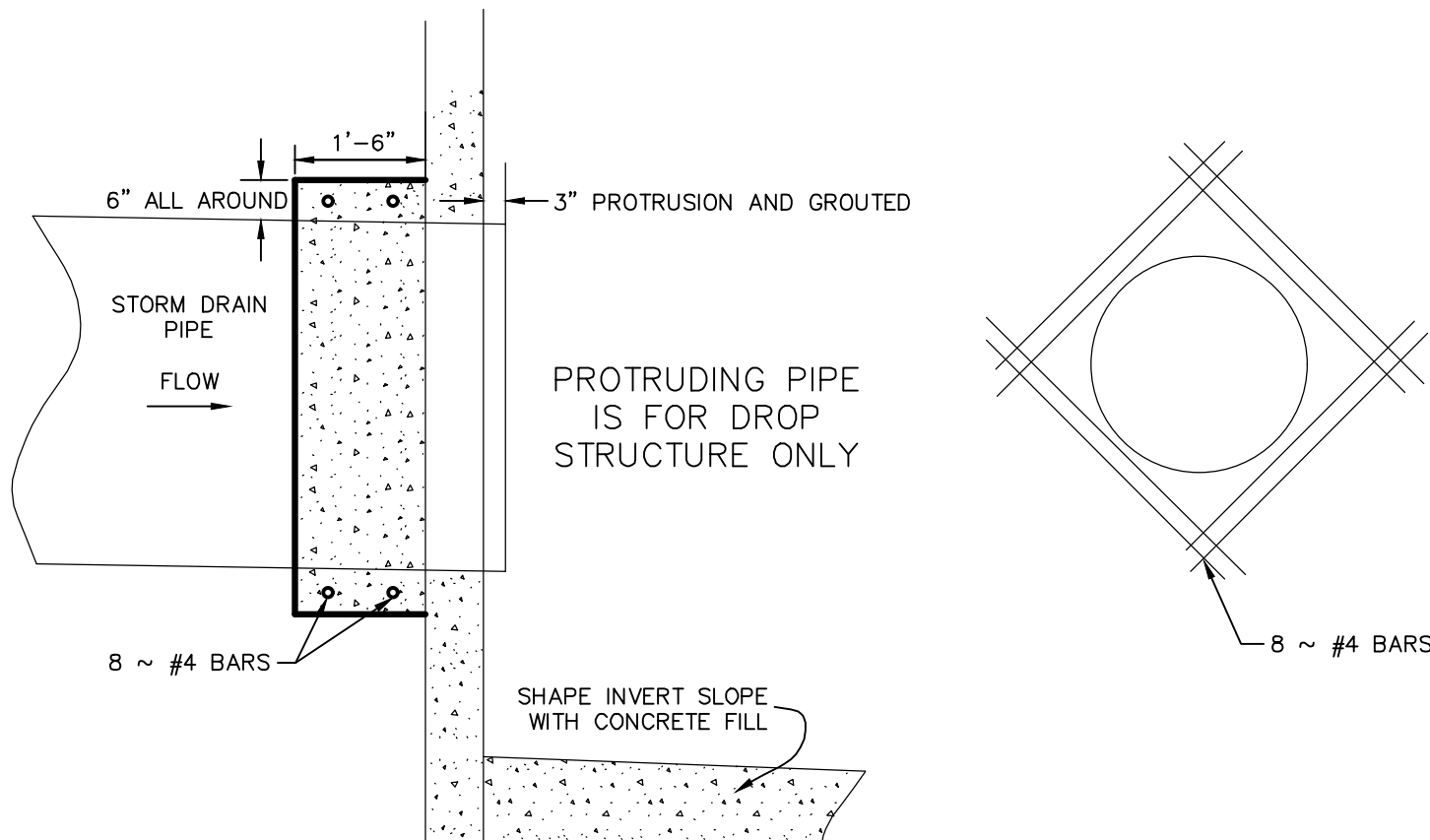


PRECAST BOX CULVERT

CONCRETE BOX CULVERT

MAY 2009

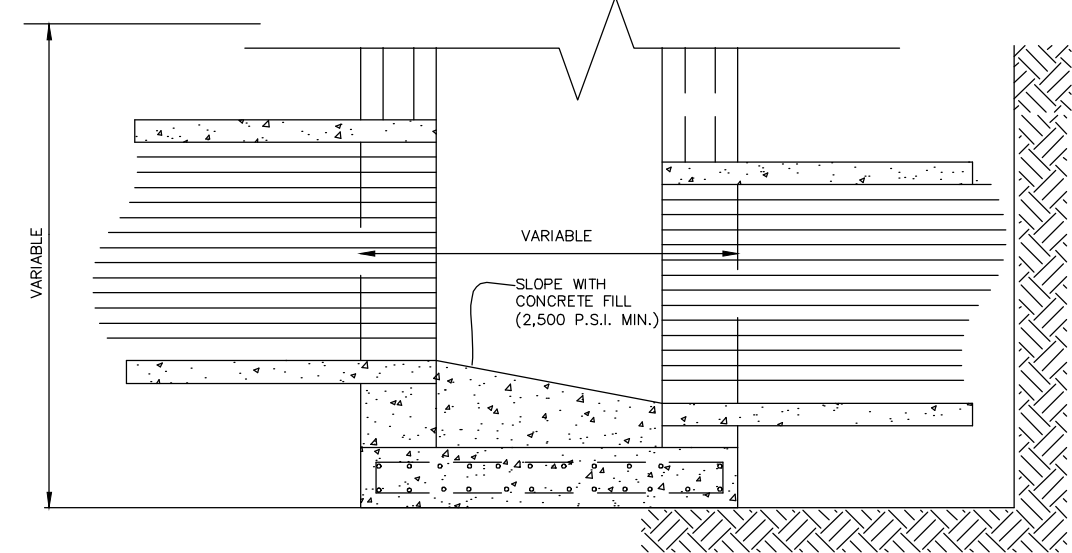
CITY OF SAN ANTONIO
CAPITAL IMPROVEMENTS MANAGEMENT SERVICES DEPARTMENT
PIPE BEDDING & MISCELLANEOUS DRAINAGE DETAILS



PIPE FLUSH WITH INVERT

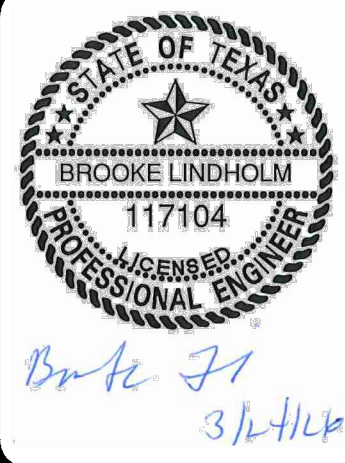
CONCRETE COLLAR DETAIL

NOT-TO-SCALE
PROVIDE AT CONNECTION TO ALL STRUCTURES



GROUTED INVERT DETAIL

NO.	REVISION	DATE



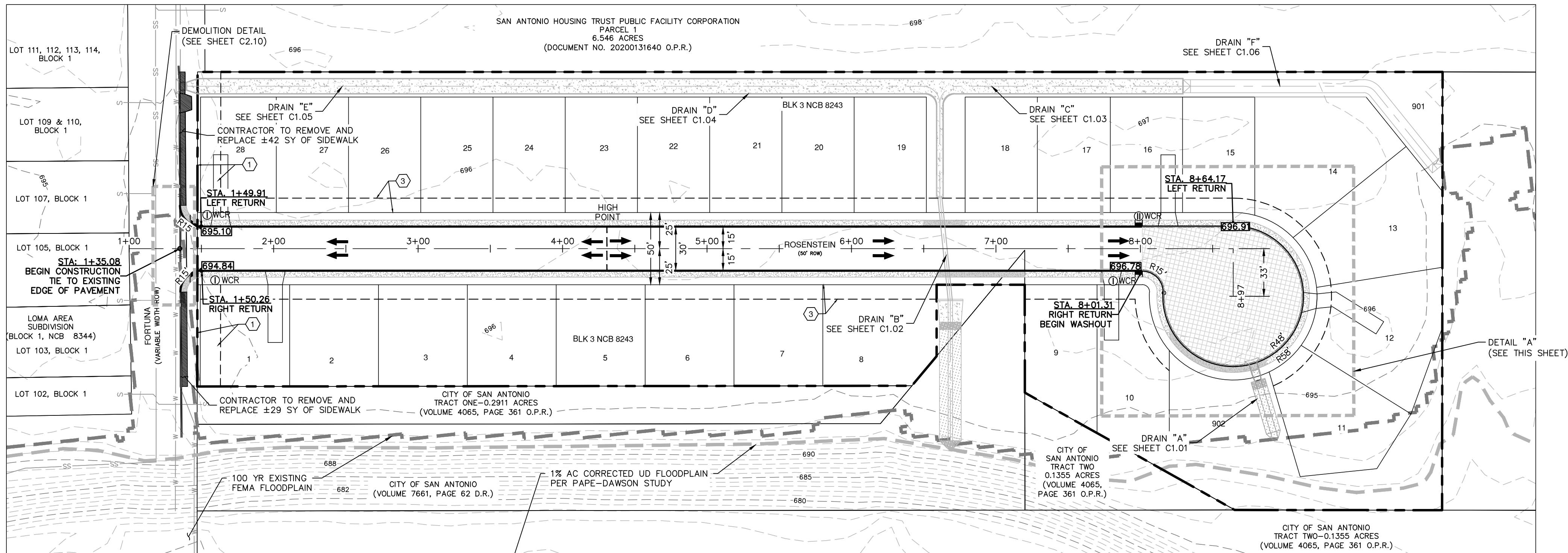
PAPE-DAWSON
2000 NW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000
TEXAS SURVEYING FIRM #470 | TEXAS SURVEYING FIRM #1028800

FORTUNA
SAN ANTONIO, TEXAS
DRAINAGE DETAILS

PLAT NO.	25-11800510
JOB NO.	13255-01
DATE	MARCH 2026
DESIGNER	RG
CHECKED	BL
DRAWN	AG
SHEET	C1.10

Notes: Jul 15, 2025 - 4:45pm User ID: dnmwts
File: P:\12245501\Design\CHS\12245501 (ROSENSTEIN).dwg

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PAVEMENT SECTION DETAIL						
STREET NAME	STATION	TYPE "D" HMAC	CRUSHED LIMESTONE BASE	STABILIZED SUBGRADE	GEOGRID (TENSAR TRIAX TX5)	STRUCTURAL NUMBER
ROSENSTEIN	1+00.00 TO END	2.00"	10.00"	8"	NO	2.92

GENERAL NOTES:

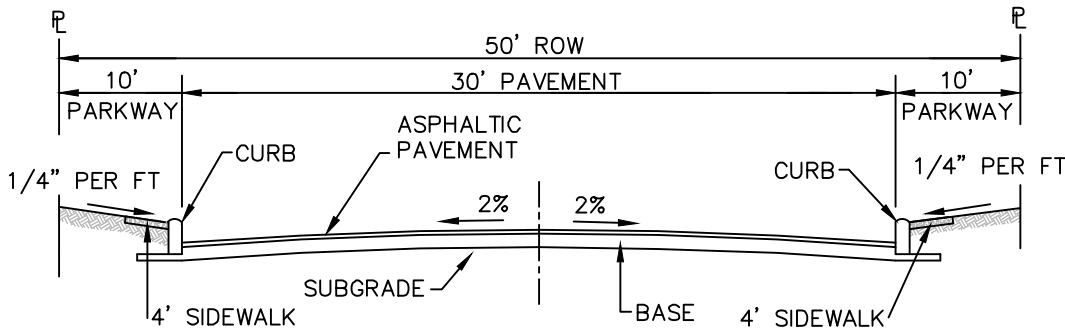
- CONTRACTOR SHALL REFERENCE THE PROJECT PAVEMENT DESIGN REPORT NO. S251107 PREPARED BY INTEC DATED MAY 25, 2025.
- CONTRACTOR SHALL RETAIN A GEOTECHNICAL ENGINEER TO VERIFY THE SUB GRADE CONDITION PRIOR TO PLACING ANY BASE MATERIAL. GEOTECHNICAL ENGINEER SHALL DETERMINE THE SUB GRADE CONDITION AND IF 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 20. 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 CITY OF SAN ANTONIO PERMIT MUST BE OBTAINED BEFORE WORKING IN THE CITY OF SAN ANTONIO 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:

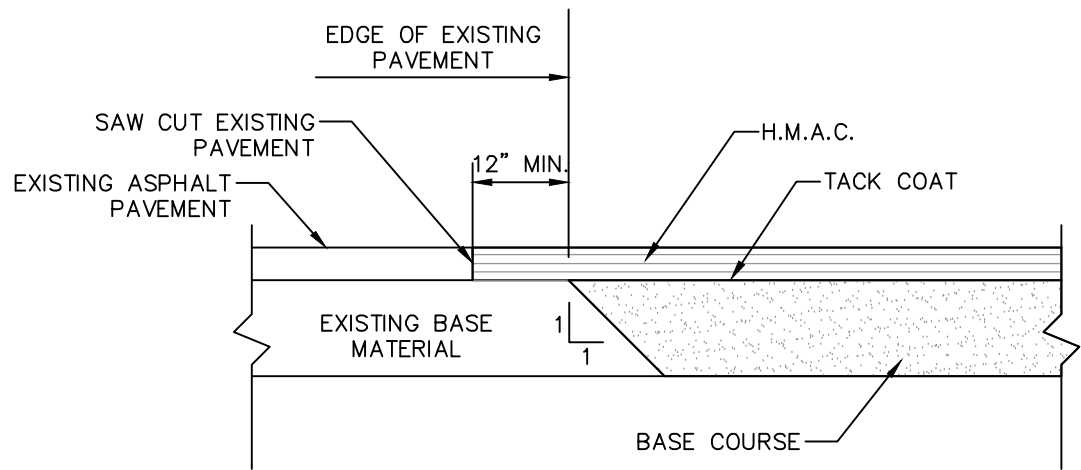
- IF THE STREET SUBGRADE PLASTICITY INDEX VALUE IS GREATER THAN 20, SUBGRADE STABILIZATION IS NEEDED AS PER CITY OF SAN ANTONIO REQUIREMENTS.
- IF THE SUBGRADE PLASTICITY INDEX VALUE IS 20 OR LESS, SUBGRADE STABILIZATION IS NOT NEEDED. THE SUBGRADE SHOULD BE MOISTURE CONDITIONED (COMPACTED TO A MINIMUM OF 95 PERCENT OF THE MAXIMUM DRY DENSITY AT A MINIMUM MOISTURE CONTENT OF OPTIMUM PLUS 2 PERCENT (TEX114E)).
- THE SUBGRADE SHOULD BE STABILIZED USING 6 PERCENT LIME TO A DEPTH OF 8 INCHES AS NOTED ABOVE.
- THE SUBGRADE SOILS SHOULD BE TESTED FOR SOIL SULFATE CONTENT PRIOR TO STABILIZATION. IF THE SOIL SULFATE CONTENT IS HIGH, AN ALTERNATE PROCEDURE / RECOMMENDATION WILL BE NEEDED.
- LIME APPLICATION RATE OF 38 LBS PER SQ YARD FOR 8 INCH DEPTH OF STABILIZATION IS RECOMMENDED.
- APPROVED FILL MATERIAL SHOULD BE USED TO RAISE THE GRADE. THE FILL SHOULD BE FREE OF DELETERIOUS MATERIAL WITH A MINIMUM CBR VALUE OF 2.0. LIME APPLICATION RATES SHOULD BE RE-EVALUATED AND TESTED FOR SULFATE CONTENT PRIOR TO USE OF THE FILL MATERIAL. THE MATERIAL SHOULD BE PLACED AS PER APPLICABLE CITY OR COUNTY GUIDELINES.
- THE SUBGRADE SHOULD BE PROOF ROLLED TO IDENTIFY SOFT AREAS BEFORE STABILIZATION.

LIME NOTES:

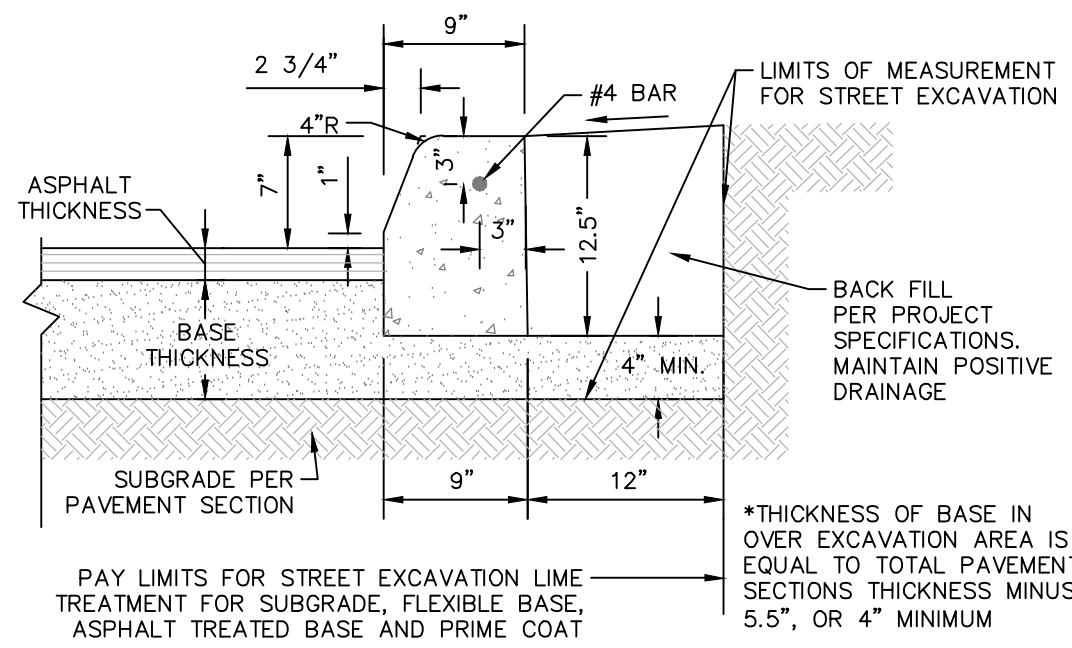
- FOR LIME STABILIZATION CONSTRUCTION VERIFICATION THE FOLLOWING SHALL BE CONDUCTED ON THE FIELD:
- AFTER INITIAL MIXING THE SOIL-LIME MIXTURE SHALL MELLOW FOR A PERIOD OF TWO TO THREE (2-3) DAYS. MAINTAIN MOISTURE DURING MELLOWING.
 - AFTER MELLOWING AND FINAL MIXING, THE PULVERIZATION SHALL BE CHECKED USING THE FOLLOWING CRITERIA (REMOVE NON-SLAKING AGGREGATES RETAINED ON THE 3/4 INCH SIEVE FROM THE SAMPLE):
 - MINIMUM PASSING 1 1/2" SIEVE 100
 - MINIMUM PASSING 3/4" 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.



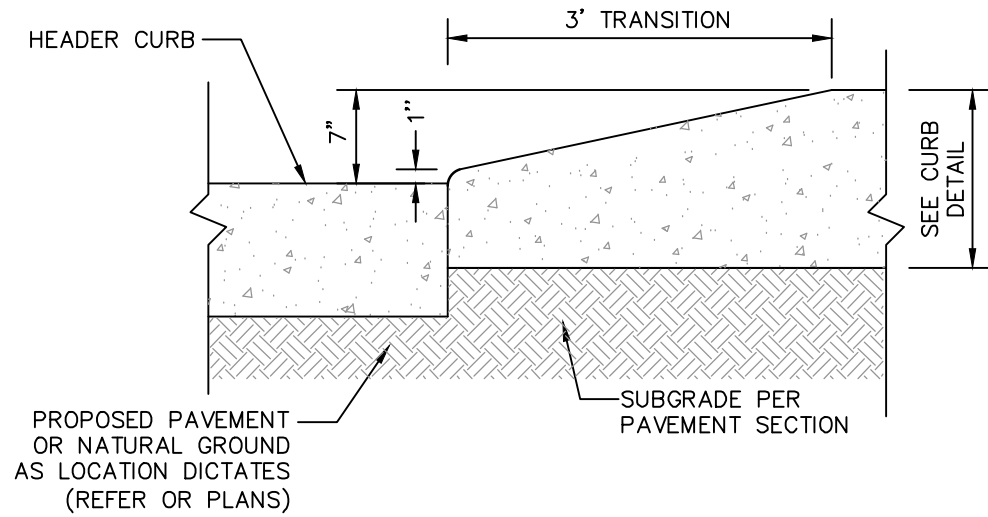
LOCAL A STREET SECTION
NOT-TO-SCALE



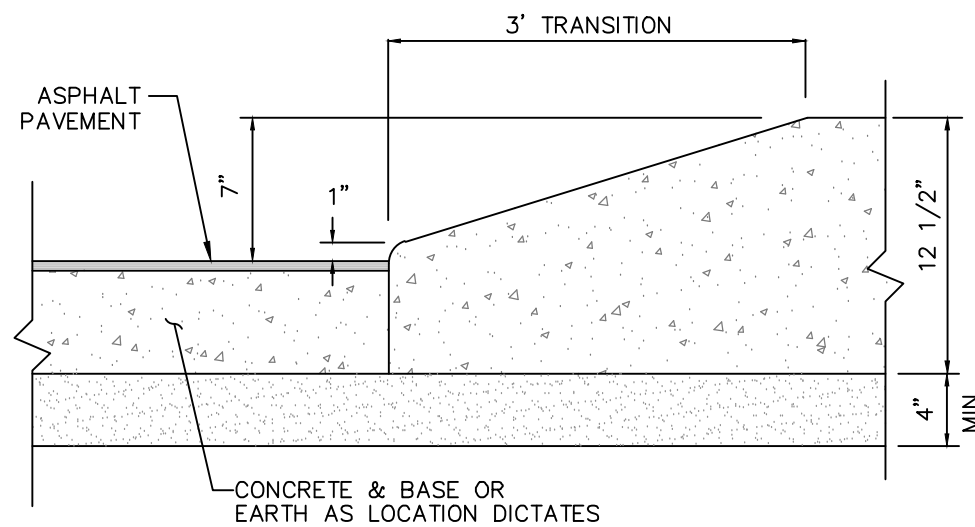
ASPHALT/ASPHALT JUNCTURE DETAIL
NOT-TO-SCALE



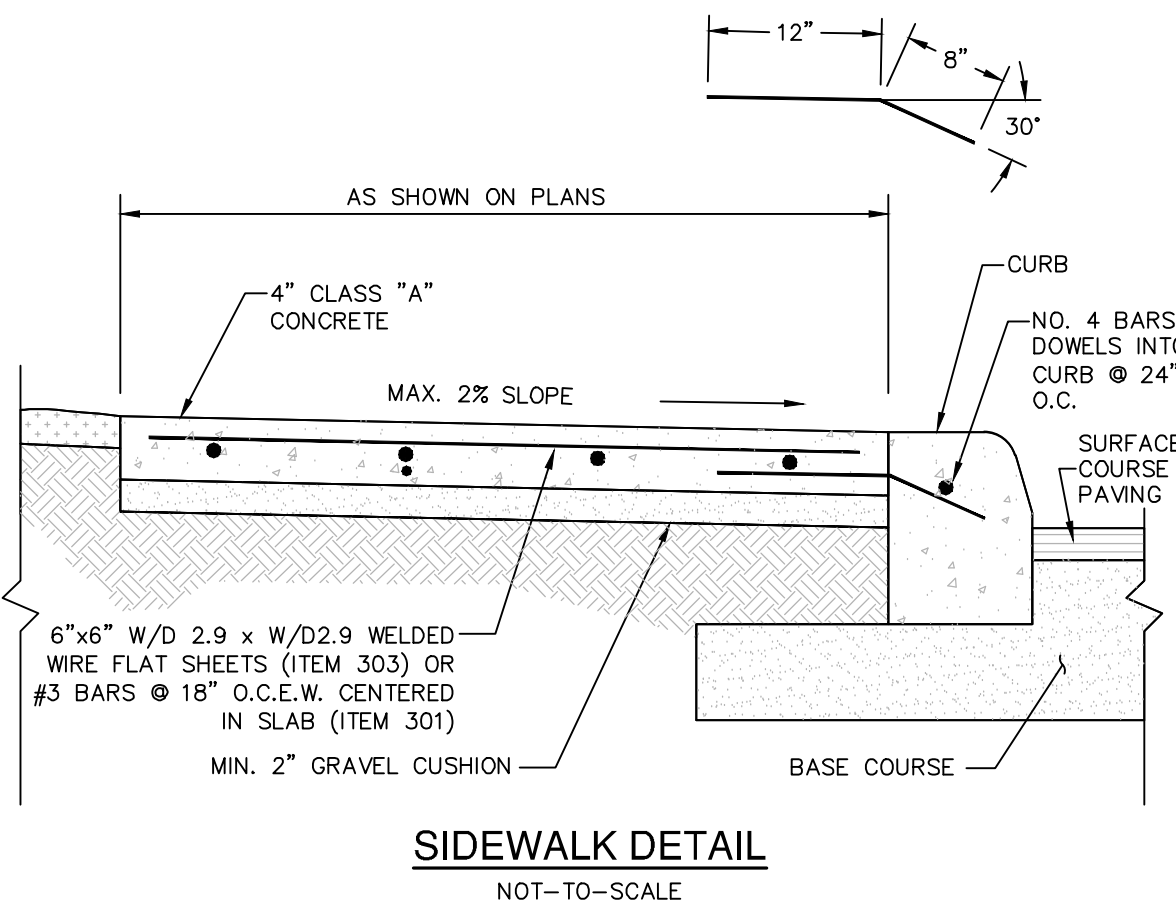
CONCRETE CURB DETAIL
NOT-TO-SCALE



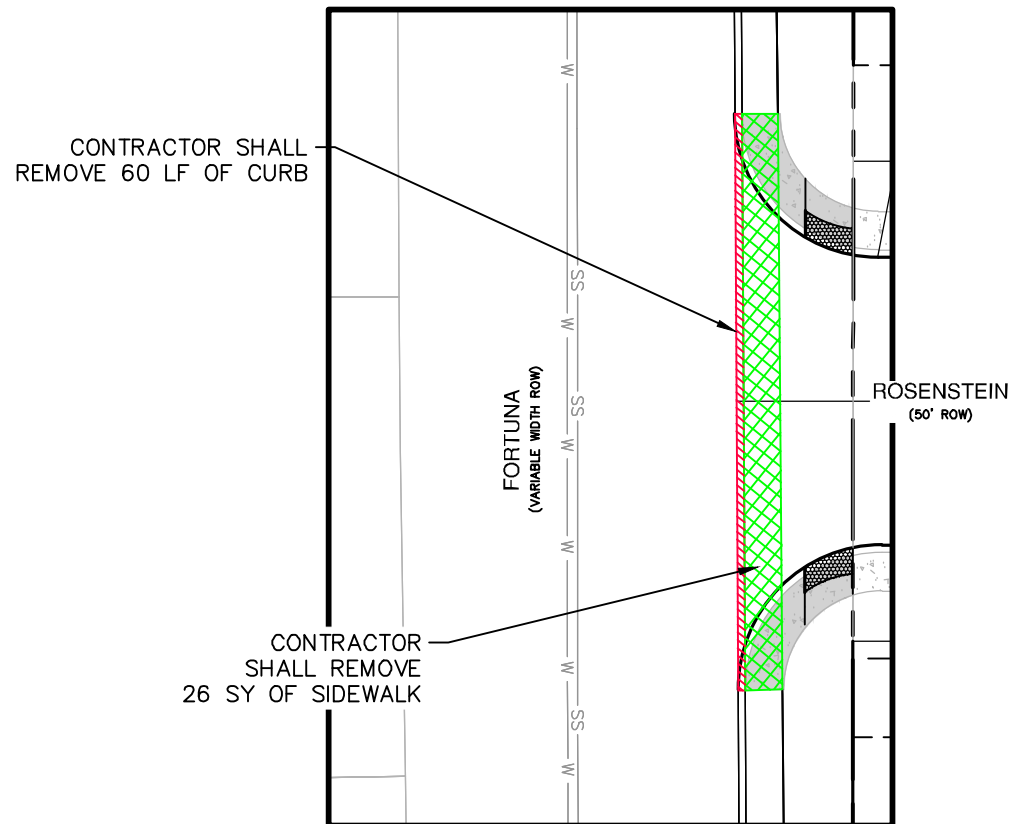
CURB TRANSITION DETAIL
(FROM HEADER CURB TO STANDARD CURB)
NOT-TO-SCALE



CURB TRANSITION DETAIL
(FROM PAVEMENT TO STANDARD CURB)
NOT-TO-SCALE

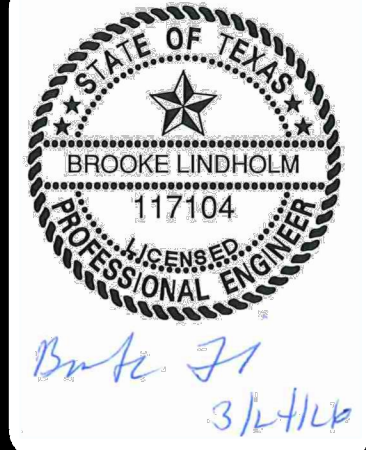


SIDEWALK DETAIL
NOT-TO-SCALE



DEMOLITION DETAIL
SCALE: 1" = 20'

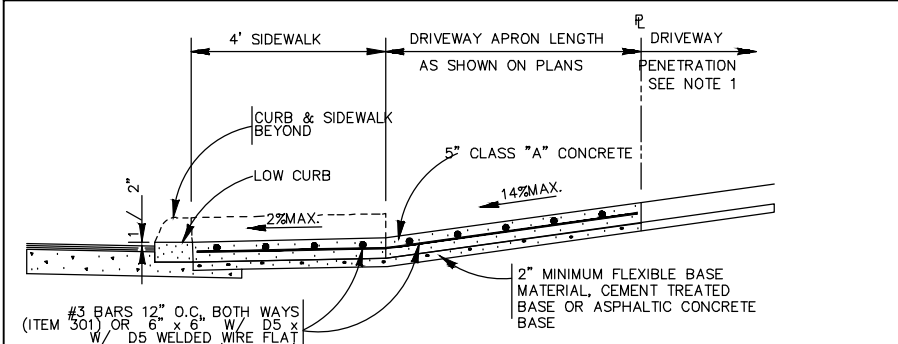
DATE	
NO.	
REVISION	



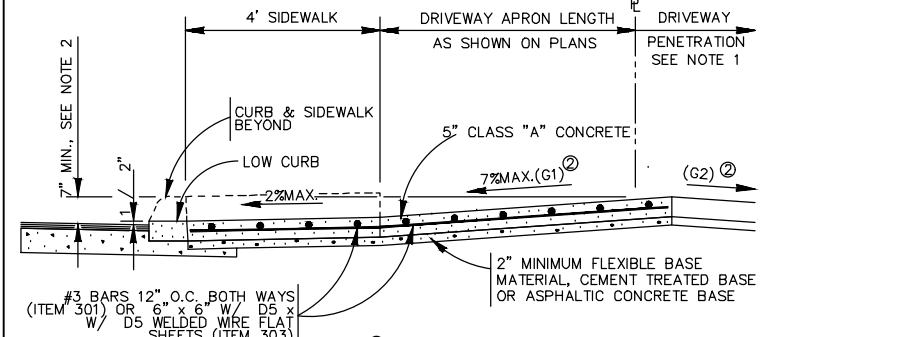
PAPE-DAWSON
2000 NW LOOP 410 I SAN ANTONIO, TX 78213 I 210.375.9000
TEXAS ENGINEERING FIRM #470 I TEXAS SURVEYING FIRM #1022800

FORTUNA
SAN ANTONIO, TEXAS
STREET DETAILS

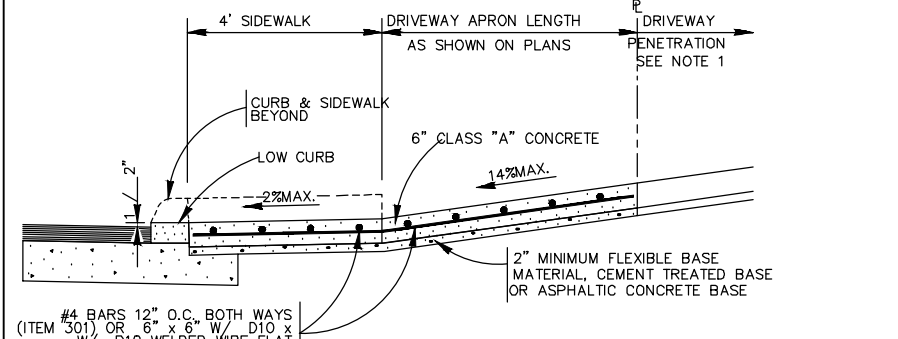
PLAT NO.	25-11800510
JOB NO.	13255-01
DATE	MARCH 2026
DESIGNER	RG
CHECKED	BL
DRAWN	AG
SHEET	C2.10



TYPICAL RESIDENTIAL DRIVEWAY SECTION
WITH SIDEWALK ABUTTING CURB
ITEM 503.1



TYPICAL RESIDENTIAL DRIVEWAY SECTION
WHERE PROPERTY IS LOWER THAN STREET & SIDEWALK IS ABUTTING CURB
ITEM 503.1



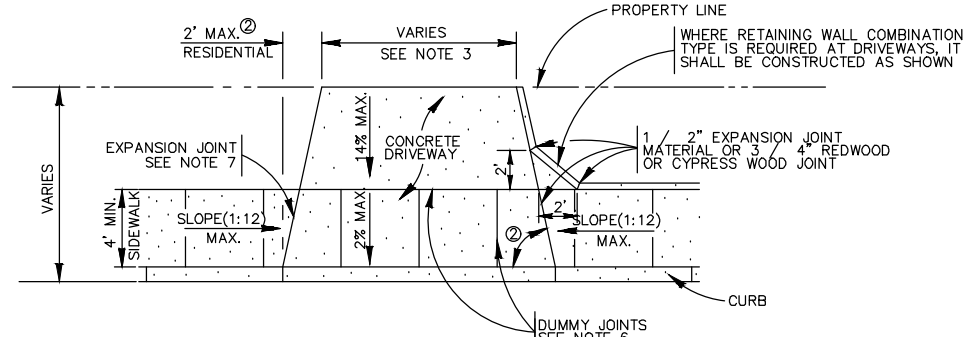
TYPICAL COMMERCIAL DRIVEWAY SECTION
WITH SIDEWALK ABUTTING CURB
ITEM 503.2

- CONCRETE DRIVEWAY NOTES**
1. DRIVEWAY PENETRATION REFERS TO A PORTION OF THE DRIVEWAY THAT MAY BE NECESSARY TO RECONSTRUCT WITHIN PRIVATE PROPERTY TO COMPLY WITH A MAXIMUM DRIVEWAY SLOPE. THE PORTION OF THE DRIVEWAY SHALL BE PAD FOR UNDER THE FOLLOWING ITEMS AS MAY APPLY:
A. 1. CONCRETE DRIVEWAY PAD FOR UNDER ITEM NO. 503.1 OR 503.2.
B. 2. ASPHALT DRIVEWAY PAD FOR UNDER ITEM NO. 503.3 AND SHALL INCLUDE A MINIMUM OF 4" ASPHALT TYPE 'D' & 6" FLEXIBLE BASE.
C. 3. GRAVEL DRIVEWAY PAD FOR UNDER ITEM NO. 503.5 AND SHALL INCLUDE A MINIMUM OF 6" FLEXIBLE BASE.
 2. MINIMUM HEIGHT WILL NOT NECESSARILY OCCUR AT THE PROPERTY LINE. IT MAY OCCUR WITHIN THE RIGHT OF WAY OR WITHIN THE DRIVEWAY PENETRATION ON PRIVATE PROPERTY.
 3. THE PROPOSED DRIVEWAY SHOULD MATCH THE EXISTING WIDTH AT THE PROPERTY LINE BUT UNLESS AUTHORIZED BY THE CITY TRAFFIC ENGINEER, THE WIDTH SHALL BE WITHIN THE FOLLOWING VALUES:

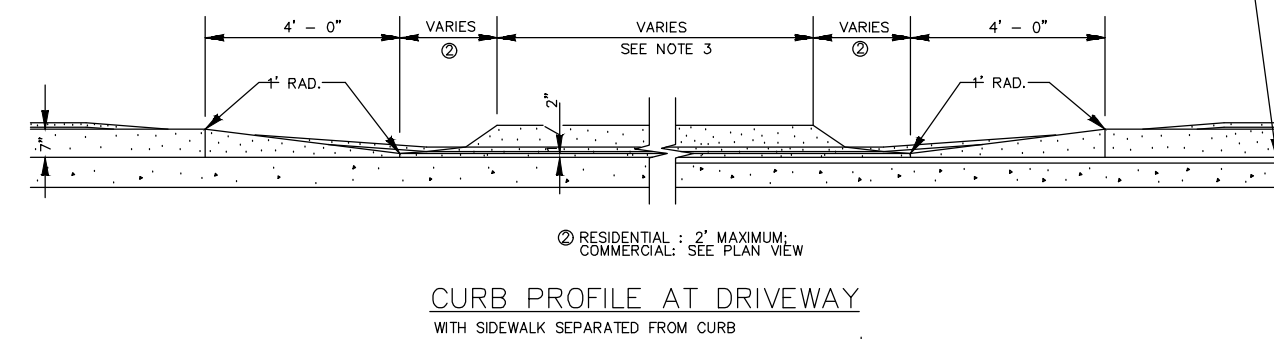
TYPE	MINIMUM	MAXIMUM
RESIDENTIAL	10'	20'
COMMERCIAL - ONE WAY	12'	20'
COMMERCIAL - TWO WAY	24'	30'
 4. FOR LOCAL TYPE "A" STREETS, SIDEWALK SHALL HAVE A MINIMUM WIDTH OF 4' AND IF SEPARATED FROM THE CURB, THE SIDEWALK SHALL BE LOCATED A MINIMUM OF 3' FROM THE BACK OF CURB.
 5. FOR OTHER THAN LOCAL TYPE "A" STREETS, THE SIDEWALK SHALL HAVE A MINIMUM WIDTH OF 4' AND SEPARATED A MINIMUM OF 3' FROM THE BACK OF CURB OR, AS AN OPTION, THE SIDEWALK SHALL HAVE A MINIMUM WIDTH OF 6' WHEN LOCATED AT THE BACK OF CURB.
 6. DUMMY JOINTS PARALLEL TO THE CURB SHALL BE PLACED WHERE THE SIDEWALK MEETS THE DRIVEWAY. DUMMY JOINTS PERPENDICULAR TO THE CURB AND WITHIN THE BOUNDARIES OF THE PARALLEL DUMMY JOINTS SHALL BE PLACED AT INTERVALS EQUAL TO THE WIDTH OF THE SIDEWALK.
 7. A MINIMUM OF TWO ROUND AND SMOOTH DOWEL BARS 3/8" IN DIAMETER AND 18" IN LENGTH SHALL BE SPACED 18" APART AT EACH EXPANSION JOINT.
 8. SIDEWALK RAMP LENGTHS SHALL BE OF SUFFICIENT LENGTH TO MAINTAIN 8.33% (1:12) MAXIMUM SLOPE. WHERE SIDEWALK CROSS DRIVEWAYS, SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2%.
 9. SIDEWALK RAMP SURFACE SHALL BE BRUSH FINISHED.



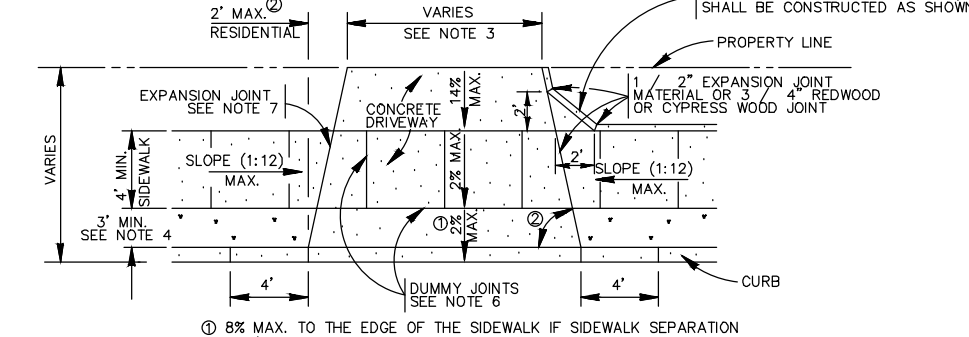
CURB PROFILE AT DRIVEWAY
WITH SIDEWALK ABUTTING CURB



TYPICAL DRIVEWAY PLAN VIEW
WITH SIDEWALK ABUTTING CURB



CURB PROFILE AT DRIVEWAY
WITH SIDEWALK SEPARATED FROM CURB



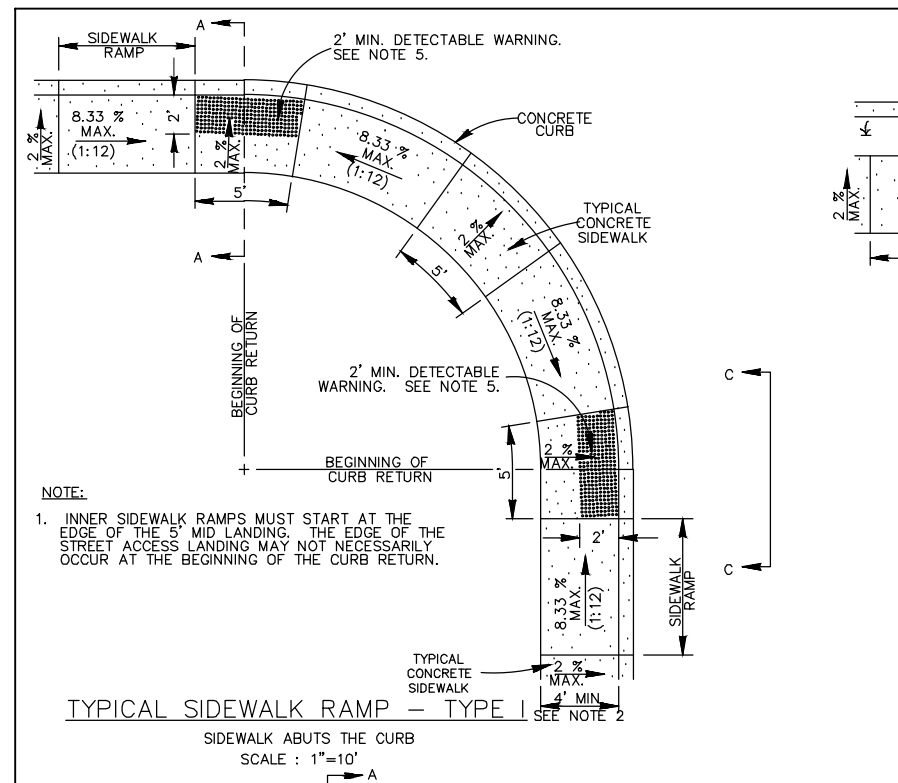
TYPICAL DRIVEWAY PLAN VIEW
WITH SIDEWALK SEPARATED FROM CURB

MAY 2009

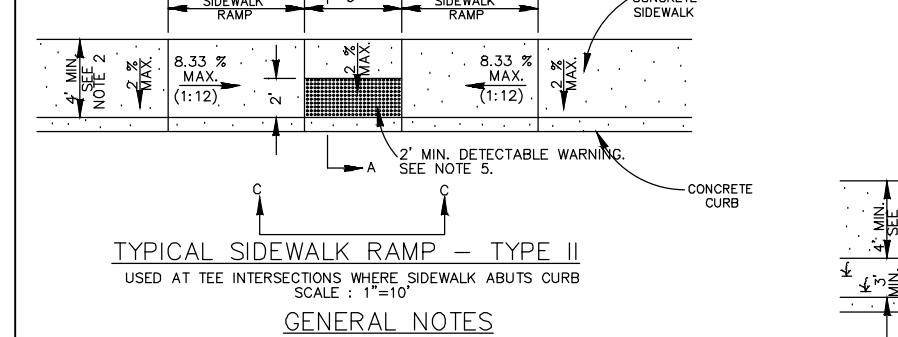
CITY OF SAN ANTONIO
CAPITAL IMPROVEMENTS MANAGEMENT SERVICES DEPARTMENT

CONCRETE DRIVEWAY STANDARDS

REVISION	REVISION NO.	DATE	BY
1	1	05/05/04	CHW/PL/SL/ROSEN/P/L
2	2	05/05/04	CHW/PL/SL/ROSEN/P/L
3	3	05/05/04	CHW/PL/SL/ROSEN/P/L
4	4	05/05/04	CHW/PL/SL/ROSEN/P/L

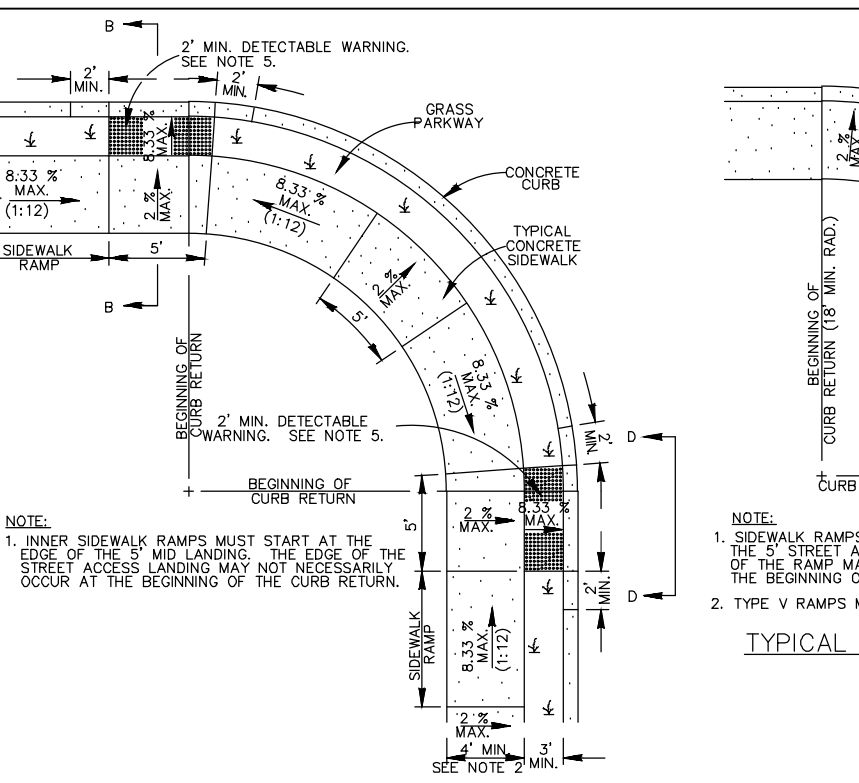


TYPICAL SIDEWALK RAMP - TYPE I
SIDEWALK ABUTS THE CURB
SCALE: 1"=4'

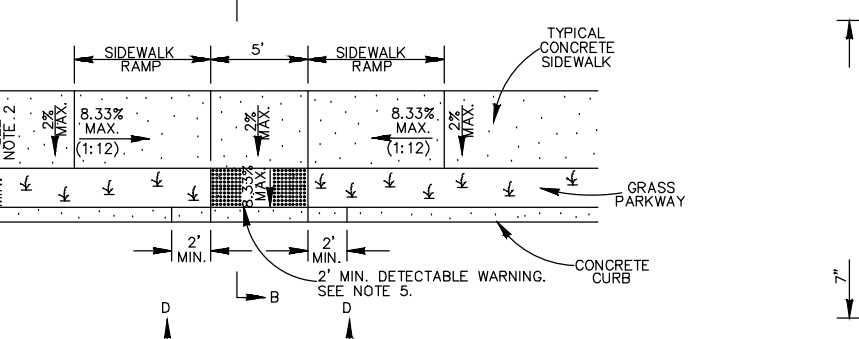


TYPICAL SIDEWALK RAMP - TYPE II
USED AT TEE INTERSECTIONS WHERE SIDEWALK ABUTS CURB
SCALE: 1"=4'

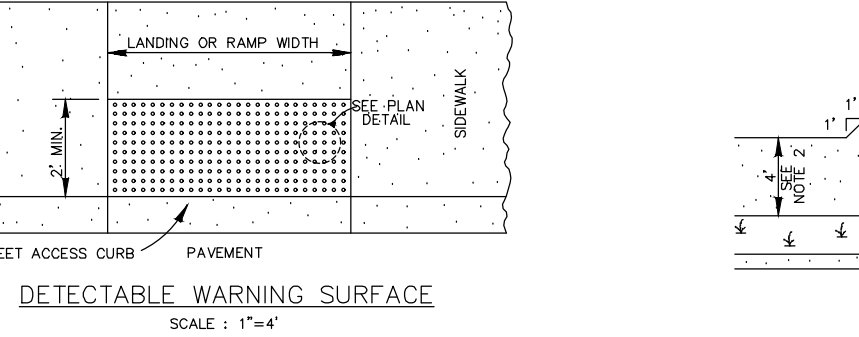
- GENERAL NOTES**
1. WHEN POSSIBLE SIDEWALKS SHOULD BE PLACED NEXT TO THE PROPERTY LINE, ALLOWING A MINIMUM OF 1' FROM THE BACK OF CURB. LOCATION OF THE SIDEWALK FROM A STRAIGHT LINE IS ENCOURAGED TO AVOID TREES OR OTHER OBSTRUCTIONS.
 2. FOR LOCAL TYPE "A" STREETS, SIDEWALKS SHALL HAVE A MINIMUM UNSTRUCTURED WIDTH OF 4' AND IF SEPARATED FROM THE CURB, THE SIDEWALK SHALL BE LOCATED A MINIMUM OF 3' FROM THE BACK OF CURB.
 3. FOR OTHER THAN LOCAL TYPE "A" STREETS, SIDEWALKS SHALL HAVE A MINIMUM UNSTRUCTURED WIDTH OF 4' AND IF SEPARATED FROM THE CURB, THE SIDEWALK SHALL BE LOCATED A MINIMUM OF 3' FROM THE BACK OF CURB.
 4. SIDEWALK RAMP LENGTHS PRESENTED IN TABLE 1 ARE GUIDELINES ONLY. SIDEWALK RAMP LENGTHS SHALL BE OF SUFFICIENT LENGTH TO MAINTAIN 8.33% (1:12) MAXIMUM SLOPE.
 5. ALL CURB-RAMPS OR LANDINGS WITHIN THE CROSSWALK SHALL HAVE A DETECTABLE WARNING 24 INCHES DEEP (ON THE DIRECTION OF PEDESTRIAN TRAVEL) AND EXTENDING THE FULL WIDTH OF THE CURB RAMP OR LANDING. THE DETECTABLE WARNING SHALL BE CONSTRUCTED WITH TRUNCATED CONES ALIGNED IN A ROW AND A CENTER-TO-CENTER SPACING OF NOMINAL 3.33 INCHES (60 MM). THE DETECTABLE WARNING SURFACE SHALL BE FINISHED CONFORMING TO TYPICAL STANDARD FINISH FOR PEDESTRIAN FACILITIES.
 6. DETECTABLE WARNING SURFACES SHALL CONTRAST VISUALLY WITH ADJACENT SURFACES, EITHER LIGHT-ON-DARK, OR DARK-ON-LIGHT. THE MATERIAL USED TO PROVIDE CONTRAST SHALL BE AN INTEGRAL PART OF THE WARNING SURFACE.
 7. SIDEWALK RAMP TYPE V SHALL BE USED ONLY WHERE THERE IS A SIGNIFICANT RESTRICTION WITHIN THE SIDEWALK TO CONSTRUCT TYPE I OR TYPE II RAMP.
 8. CONSTRUCTION OF ALL SIDEWALK RAMP TYPE "V" SHALL BE CONSTRUCTED WITH CONCRETE CURB, OUTER AND CONCRETE CURB AND "V" OR "502" - CONCRETE SIDEWALKS. RAMP SURFACE SHALL BE BRUSH FINISHED.
 9. THESE DETAILS ARE FOR REFERENCE ONLY. ACTUAL LOCATIONS OF SIDEWALK RAMP TYPE "V" SHALL BE SHOWN ON CONSTRUCTION PLANS. CITY CONSTRUCTION INSPECTOR CAN ADJUST LOCATIONS FOR SAFETY OF UTILITY CLEARANCE.
 10. SIDEWALK LESS THAN 8 FEET IN WIDTH SHALL BE PROVIDED WITH A PASSING SPACE AT A MAXIMUM SPACING OF 200 FEET.
 11. SIDEWALK RAMP SHALL BE CONSTRUCTED WITH 4" CLASS "A" CONCRETE AND 2" MINIMUM GRAVEL, CRUSHED ROCK OR FLEXIBLE BASE MATERIAL.
 12. REINFORCING STEEL SHALL BE #3 BARS AT 18" O.C.E.W. OR 6" x 6" - #2.9 x #2.9 WIRE MESH.
 13. SIDEWALK GRADIENT SHALL NOT EXCEED THE GRADIENT ESTABLISHED FOR THE ADJACENT SIDEWALK. ANY SIDEWALK CONSTRUCTION THAT DEVIATES FROM THE MATERIAL GRADE OF THE ADJACENT SIDEWALK, IN THE CASE OF A STREET ACCESS RAMP LOCATED AT THE EXISTING MAXIMUM SLOPE, THE ADJACENT SIDEWALK CROSS SLOPE SHALL BE LESS THAN 2.67% (1:37.5) (2.67-11). IN ADDITION, THE ADJACENT SIDEWALK CROSS SLOPE SHALL BE LESS THAN OR EQUAL TO 2%.
 14. SIDEWALK CROSS GRADIENT SHALL HAVE A MAXIMUM SLOPE OF 2% LANDINGS SHALL HAVE A MAXIMUM SLOPE OF 2% IN ANY DIRECTION.
 15. THE CHANGE OF GRADE BETWEEN ADJACENT SURFACES SHALL BE LESS THAN 1/8". THE CHANGE OF GRADE SHALL BE DEFINED AS THE ALGEBRAIC DIFFERENCE OF THE ADJACENT SURFACE SLOPES. IN THE CASE OF A STREET ACCESS RAMP LOCATED AT THE EXISTING MAXIMUM SLOPE, THE ADJACENT SIDEWALK CROSS SLOPE SHALL BE LESS THAN 2.67% (1:37.5) (2.67-11). IN ADDITION, THE ADJACENT SIDEWALK CROSS SLOPE SHALL BE LESS THAN OR EQUAL TO 2%.
 16. IF THE CHANGE OF GRADE BETWEEN ADJACENT SURFACES IS GREATER THAN OR EQUAL TO 1/8", A LANDING STRIP, 2 FEET IN LENGTH, SHALL BE PROVIDED TO TRANSITION THE ADJACENT SURFACES.
 17. ADA COMPLIANCE IN ALTERATIONS INCLUDE ONLY THAT WORK WITHIN THE LIMITS BOUNDARIES OR SCOPE



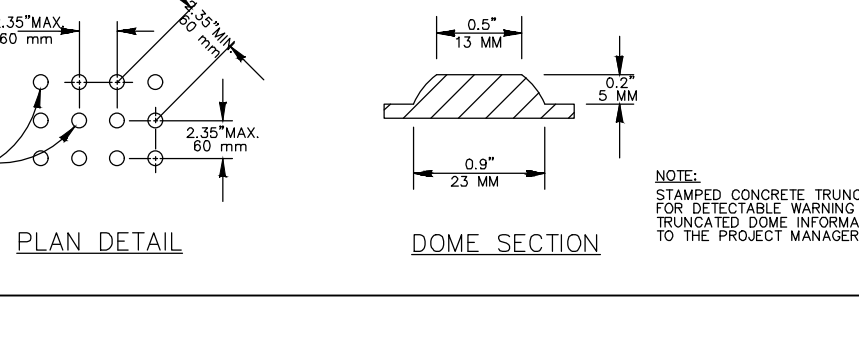
TYPICAL SIDEWALK RAMP - TYPE III
SIDEWALK SEPARATED FROM CURB
SCALE: 1"=10'



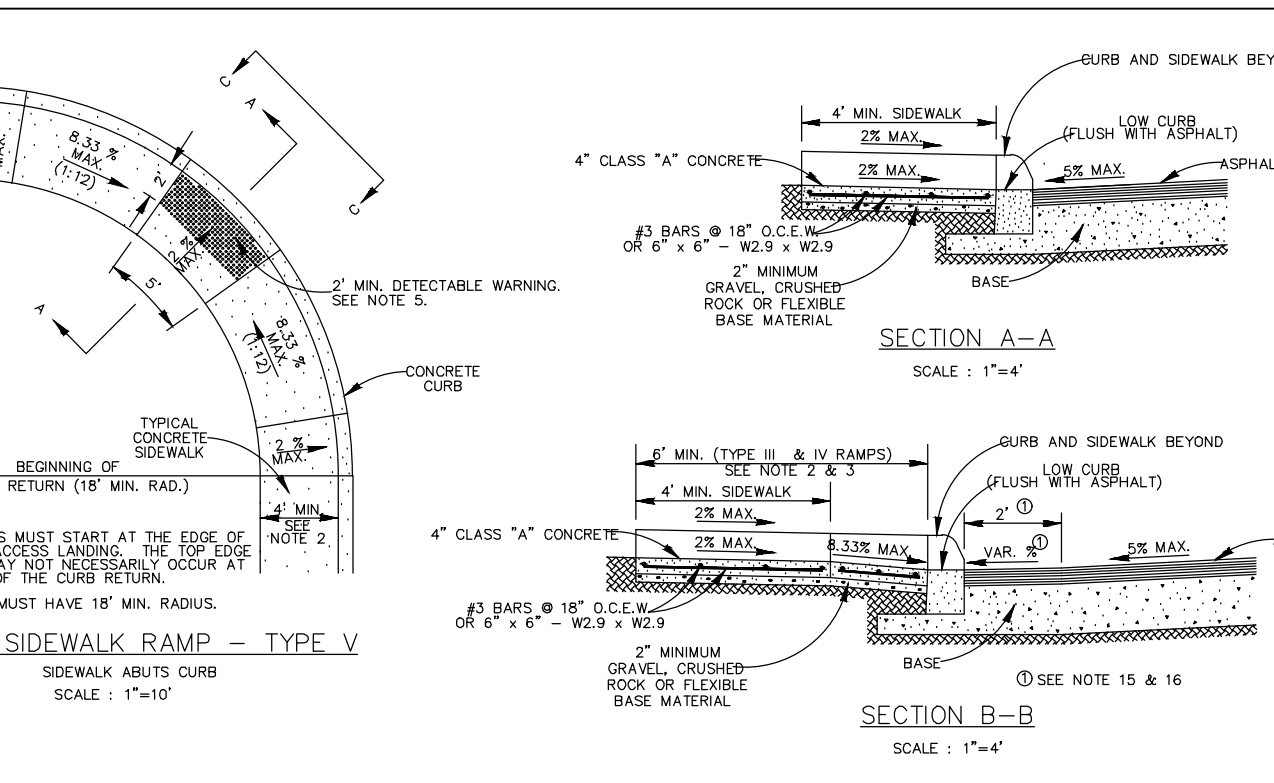
TYPICAL SIDEWALK RAMP - TYPE IV
USED AT TEE INTERSECTIONS WHERE SIDEWALK IS SEPARATED FROM CURB
SCALE: 1"=10'



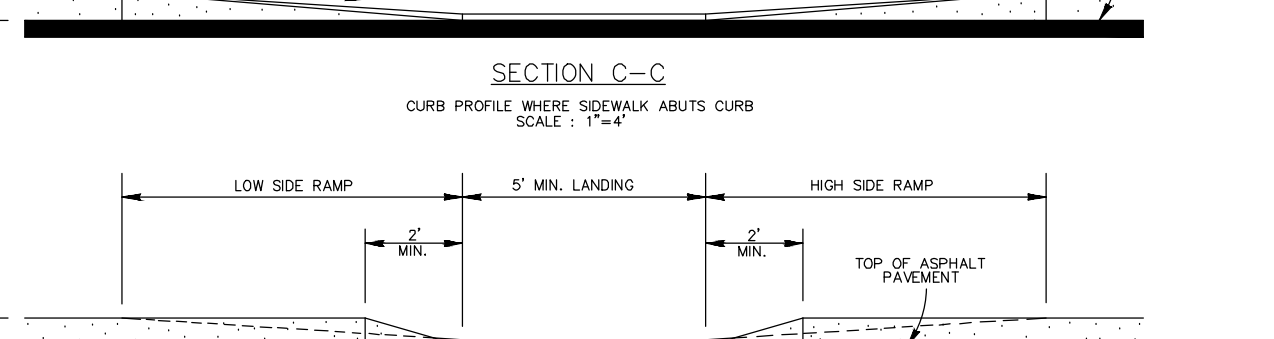
TYPICAL SIDEWALK RAMP - TYPE V
SIDEWALK ABUTS CURB
SCALE: 1"=4'



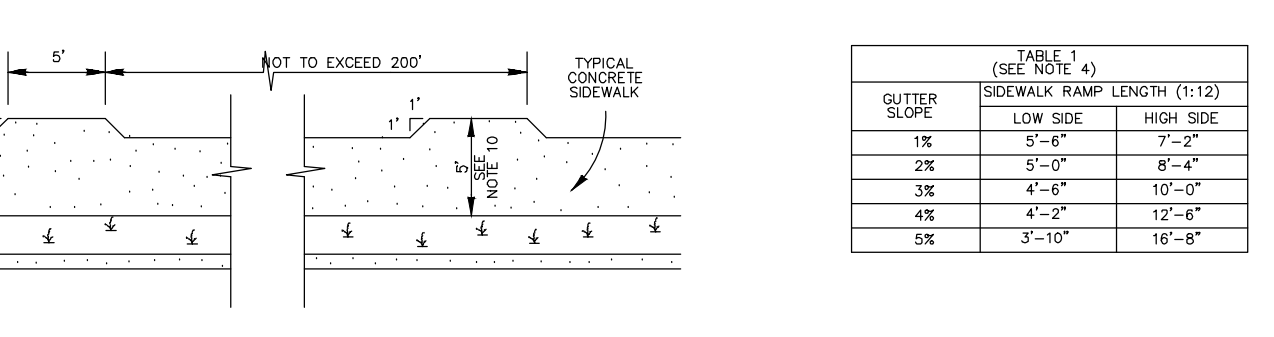
TYPICAL SIDEWALK RAMP - TYPE VI
SIDEWALK ABUTS CURB
SCALE: 1"=4'



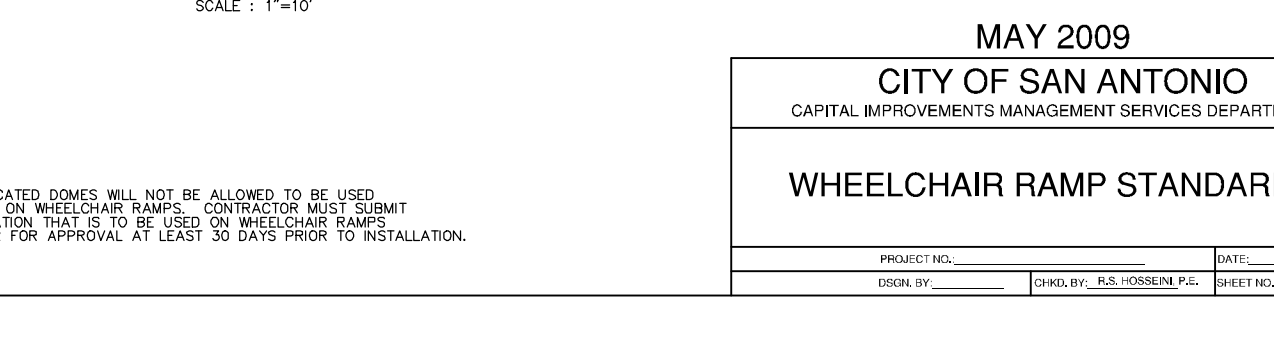
TYPICAL SIDEWALK RAMP - TYPE VII
SIDEWALK ABUTS CURB
SCALE: 1"=4'



TYPICAL SIDEWALK RAMP - TYPE VIII
SIDEWALK ABUTS CURB
SCALE: 1"=4'



TYPICAL SIDEWALK RAMP - TYPE IX
SIDEWALK ABUTS CURB
SCALE: 1"=4'



TYPICAL SIDEWALK RAMP - TYPE X
SIDEWALK ABUTS CURB
SCALE: 1"=4'

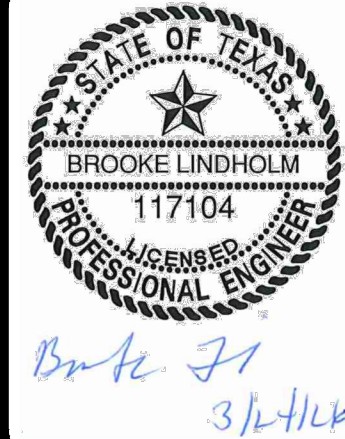
MAY 2009

CITY OF SAN ANTONIO
CAPITAL IMPROVEMENTS MANAGEMENT SERVICES DEPARTMENT

WHEELCHAIR RAMP STANDARDS

REVISION	REVISION NO.	DATE	BY
1	1	05/05/04	CHW/PL/SL/ROSEN/P/L
2	2	05/05/04	CHW/PL/SL/ROSEN/P/L
3	3	05/05/04	CHW/PL/SL/ROSEN/P/L
4	4	05/05/04	CHW/PL/SL/ROSEN/P/L

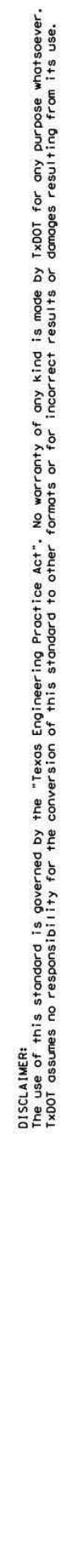
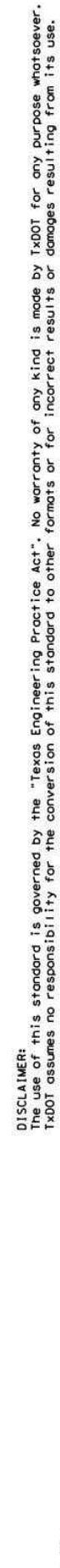
DATE	
NO.	
REVISION	



PAPE-DAWSON
2000 NW LOOP #101 SAN ANTONIO, TX 78213 | 210.375.9000
TEXAS SURVEYING FIRM #1022800

FORTUNA
SAN ANTONIO, TEXAS
STREET DETAILS

PLAT NO.	25-11800510
JOB NO.	13255-01
DATE	MARCH 2026
DESIGNER	RG
CHECKED	BL
DRAWN	AG
SHEET	C2.11



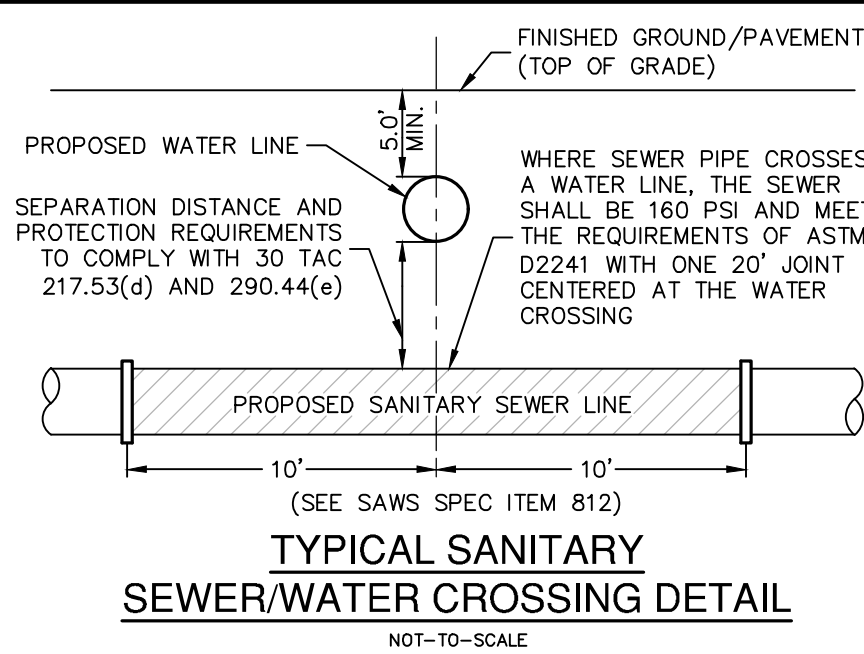
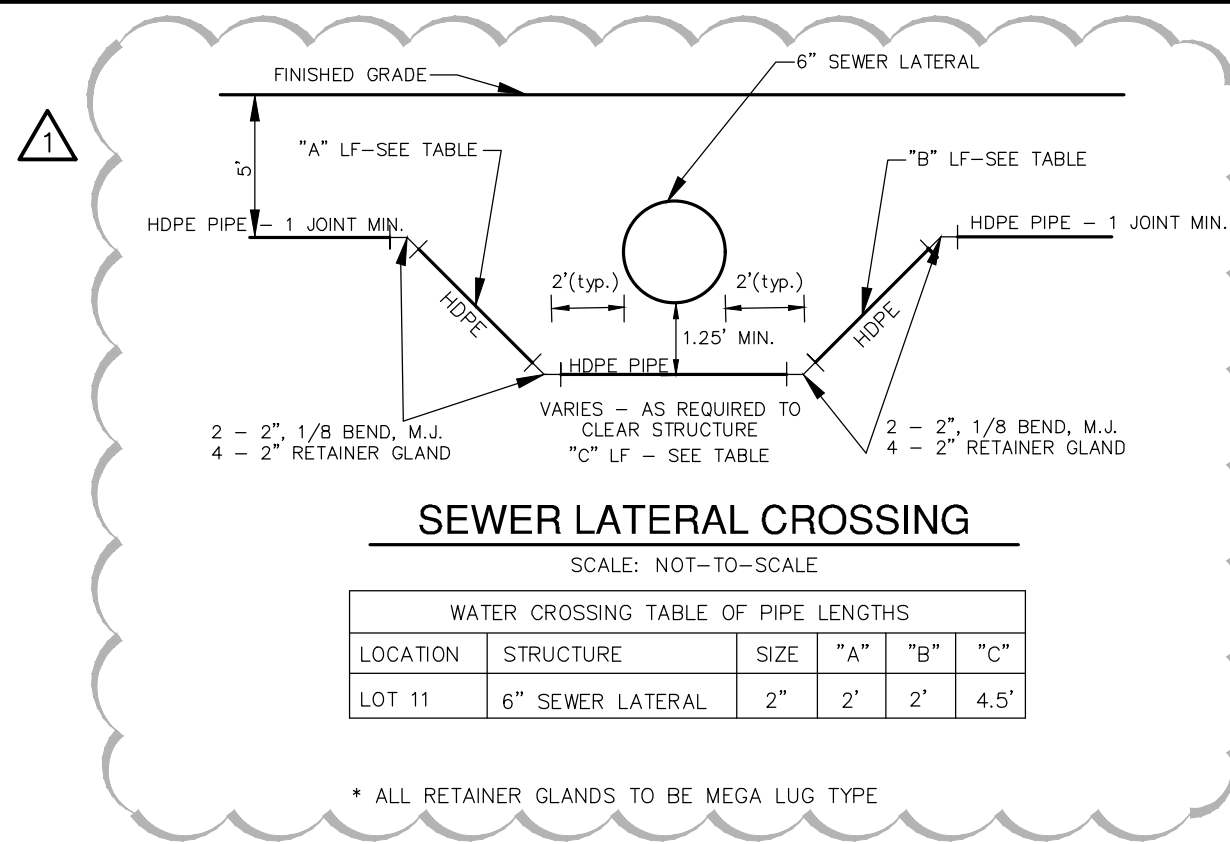
- 1 ~ STANDARD FIRE HYDRANT
1 ~ 8" X 6" ANCHOR TEE, M.J.
6" D.I. PIPE, CUT AS REQ'D
1 ~ 6" 1/4" ANCHOR BEND, M.J.
1 ~ 6" GATE VALVE, M.J.
1 ~ 6" VALVE BOX, COMPLETE
(SEE SAWS DETAIL DD-834-01 SHEET 2 OF 2)

- FOR CHLORINATION INJECTION
2 ~ 1" CORPORATION STOP, C.C.X.P.
1 ~ 1" COPPER TUBING, CUT AS REQUIRED
2 ~ 1" COMP. 1 1/4" COUPLING, CORP. STOP
2 ~ 1 1/4" THD. SOLID CAPS, THR.
1 ~ 8" SOLID SLEEVE, MJ

- 1 ~ 16"X8" CUT IN TEE, M.J.
2 ~ 16" GATE VALVE, M.J.
1 ~ 8" GATE VALVE, M.J.
3 ~ 6" VALVE BOX, COMPLETE

CONTRACTOR SHALL TIE TO EXISTING 16"
(SAWS JOB NO. 95-5008)
AFTER DISINFECTION BY CONTRACTOR AND
ACCEPTANCE BY SAWS

2" TEMPORARY BLOWOFF ASSEMBLY
SEE SAWS DWG DD-844-01 SHEET 1 OF 4

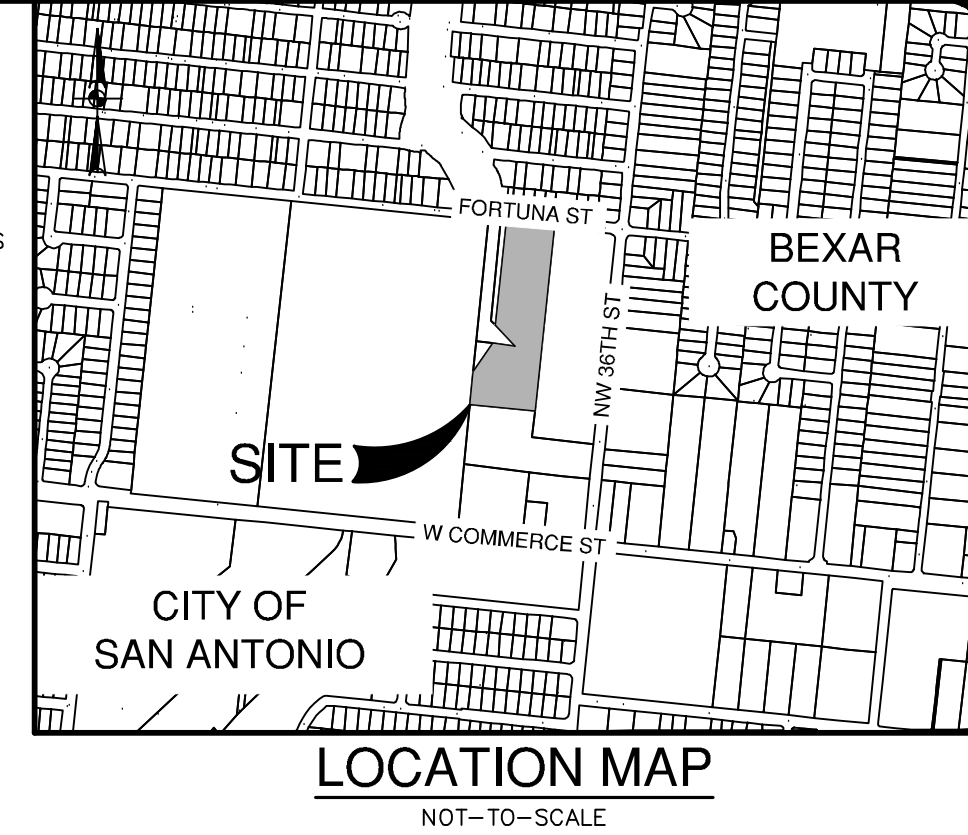


FIRE FLOW NOTE:

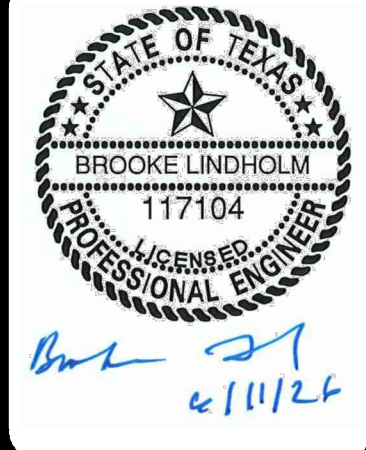
IN AN EFFORT TO MEET THE CITY OF SAN ANTONIO'S FIRE FLOW
REQUIREMENTS FOR THE PROPOSED RESIDENTIAL DEVELOPMENT, THE PUBLIC
WATER MAIN SYSTEM HAS BEEN DESIGNED FOR A MINIMUM FIRE FLOW
DEMAND OF 1000 GPM AT 25 PSI RESIDUAL PRESSURE. THE FIRE FLOW
REQUIREMENTS FOR INDIVIDUAL STRUCTURES WILL BE REVIEWED DURING THE
BUILDING PERMIT PROCESS IN ACCORDANCE WITH THE PROCEDURES SET
FORTH BY THE CITY OF SAN ANTONIO DIRECTOR OF DEVELOPMENT SERVICES
DEPARTMENT AND THE SAN ANTONIO FIRE DEPARTMENT FIRE MARSHAL.

ROW PERMIT NOTE:

A CITY OF SAN ANTONIO PERMIT MUST BE OBTAINED BEFORE WORKING IN
CITY OF SAN ANTONIO RIGHTS-OF-WAY.



NO.	REVISION	DATE
1	UPDATED DEVELOPER NAME	6/10/2026
	REVISED TOTAL WATER LF	
	ADDED LATERAL CROSSING	
	DETAIL	



PAPE-DAWSON

2000 NW LOOP 410 I SAN ANTONIO, TX 78213 1210.375.9000

TEXAS ENGINEERING FIRM #470 1 TEXAS SURVEYING FIRM #1028800

FORTUNA

SAN ANTONIO, TEXAS

OVERALL WATER DISTRIBUTION PLAN

WATER LEGEND

PROJECT LIMITS	---
EXISTING WATER	---
EXISTING SEWER	---
PROPOSED SEWER	---
PROPOSED WATER	---
PROPOSED 3/4" SINGLE SERVICE WITH 5/8" METER	---
PROPOSED 1" DUAL SERVICE WITH 5/8" METER	---
SINGLE IRRIGATION SERVICE (REF. PLAN VIEW FOR SIZE)	---
JOINT RESTRAINT	---

KEYED NOTES:

- ① 14' GAS, ELECTRIC, TELEPHONE
AND CABLE TV EASEMENT
- ② 10' GAS, ELECTRIC, TELEPHONE
AND CABLE TV EASEMENT
- ③

PRESSURE REDUCING VALVE NOTE:

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

PRESSURE NOTE:

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 1100 FEET, THE DEVELOPER OR BUILDER SHALL INSTALL
AT EACH LOT, ON THE CUSTOMER'S SIDE OF THE METER, AN APPROVED
TYPE PRESSURE REGULATOR IN CONFORMANCE WITH THE PLUMBING CODE
OF THE CITY OF SAN ANTONIO. NO DUAL SERVICES ALLOWED FOR ANY
LOT(S) IF *PRV IS/ARE REQUIRED FOR SUCH LOT(S), ONLY SINGLE
SERVICE CONNECTIONS SHALL BE ALLOWED.
*NOTE: A PRESSURE REGULATOR IS ALSO KNOWN AS A PRESSURE
REDUCING VALVE (PRV).

JOINT RESTRAINT NOTE:

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

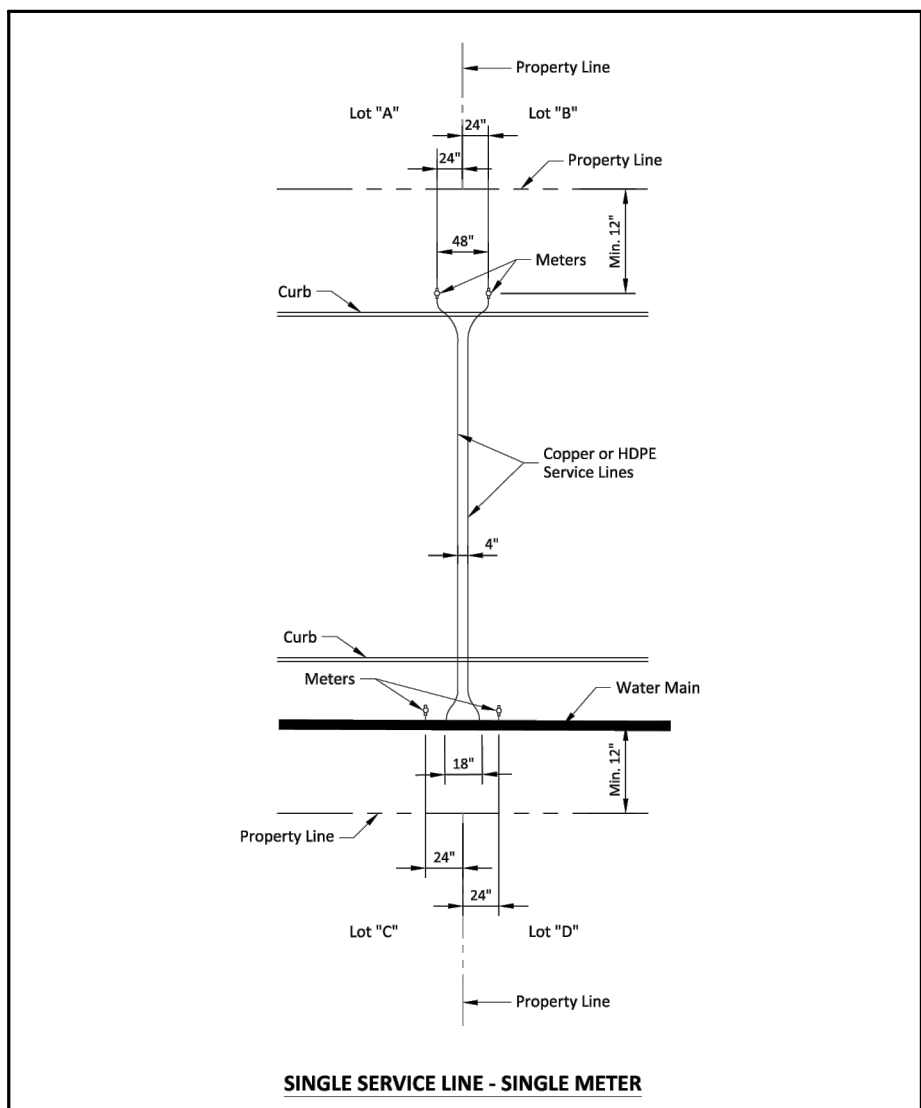
TRENCH EXCAVATION SAFETY PROTECTION:

CONTRACTOR AND/ OR CONTRACTOR'S INDEPENDENTLY RETAINED 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.

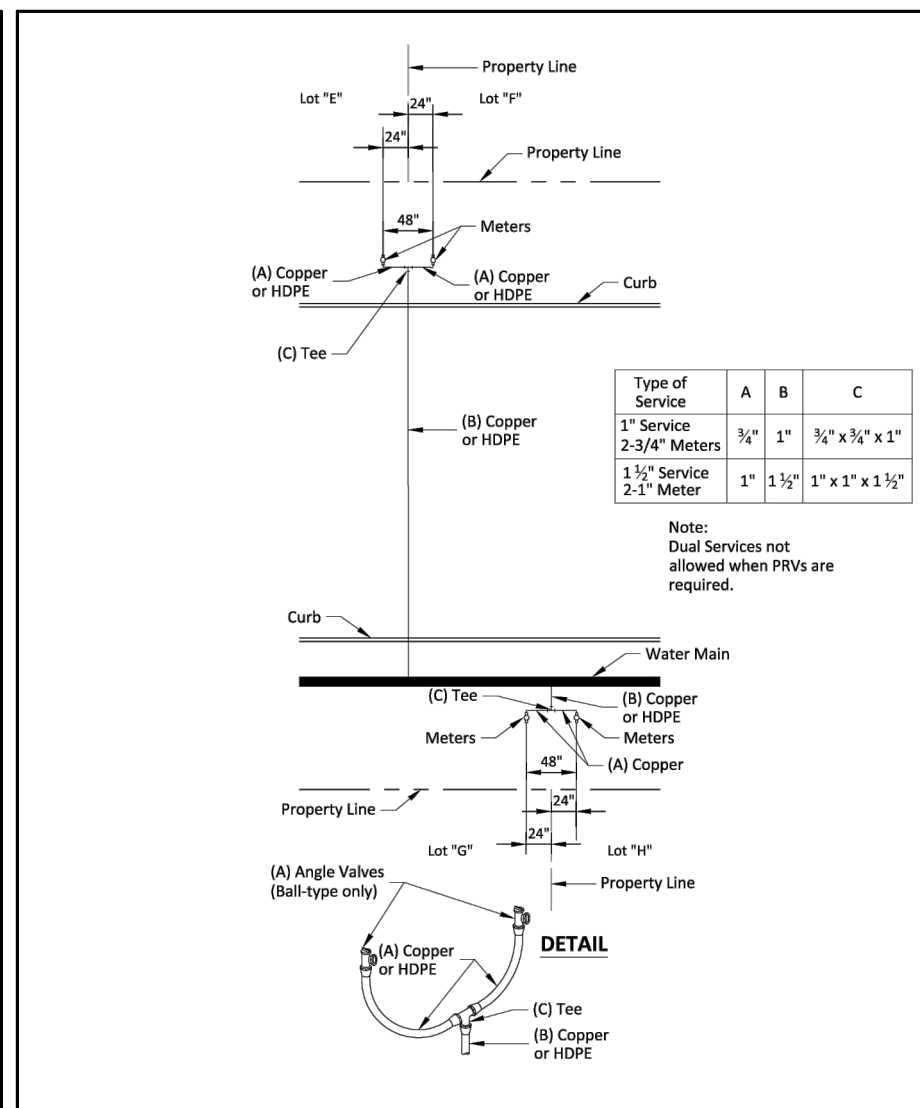
WATER (SAWS PRESSURE ZONE 930)

DEVELOPER'S NAME: HAND-UP HOMES, LLC
ADDRESS: 311 PROBANDT STREET
CITY: SAN ANTONIO STATE: TEXAS ZIP: 78204
PHONE# (210) 223-5203
SAWS BLOCK MAP# 136582 TOTAL EDU'S 28 TOTAL ACREAGE 4.653
TOTAL LINEAR FOOTAGE OF PIPE: 8" ~ 676 LF PLAT NO. 25-11800510
NUMBER OF LOTS 28 SAWS JOB NO. 26-1044

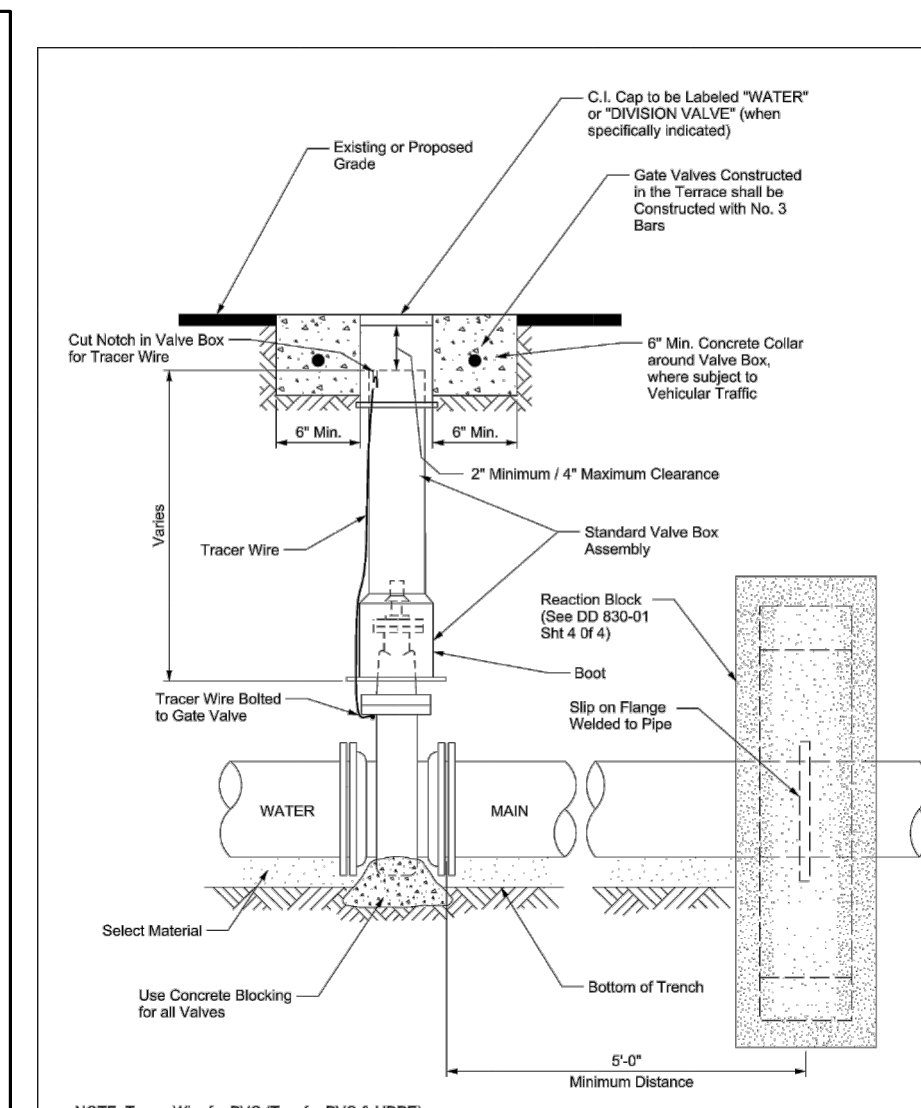
PLAT NO.	25-11800510
JOB NO.	13255-01
DATE	MARCH 2026
DESIGNER	RG
CHECKED	BL DRAWN
SHEET	C4.00



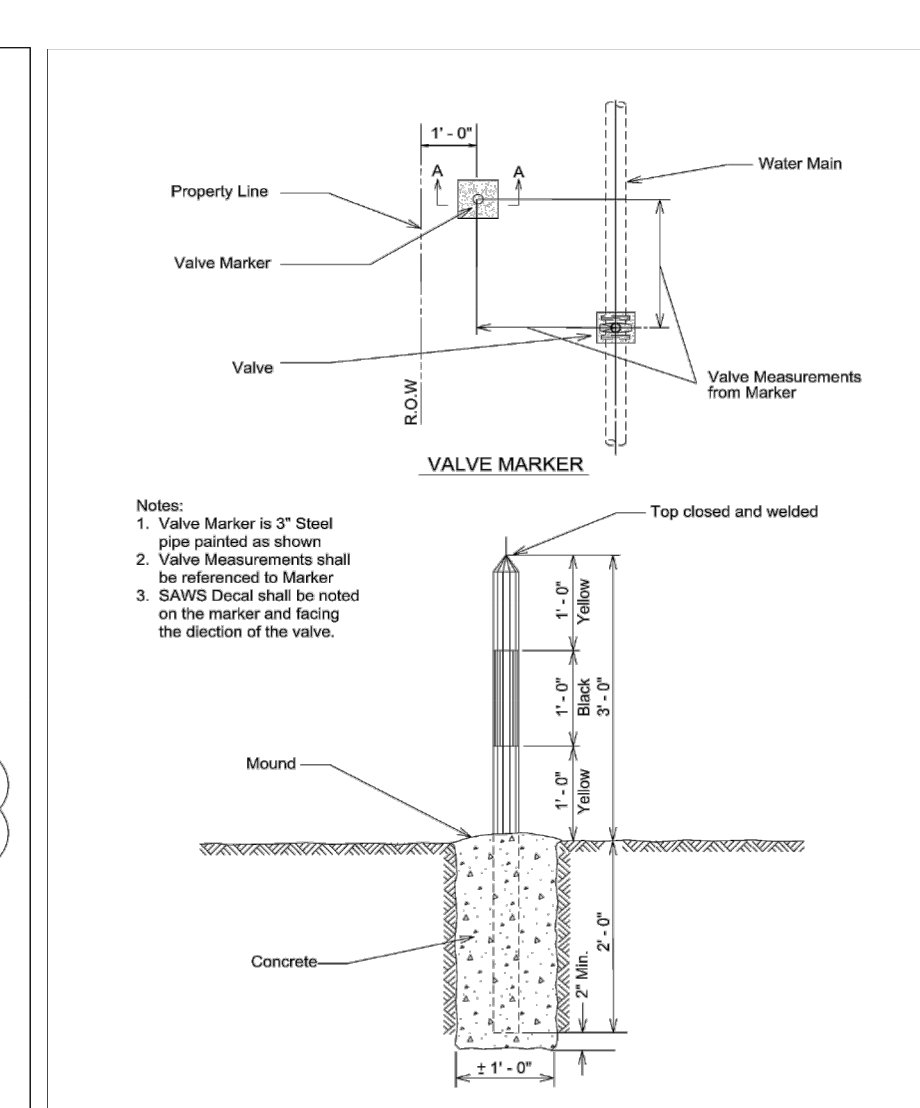
PROPERTY OF	TYPICAL	APPROVED	REVISED
SAN ANTONIO WATER SYSTEM	NEW DEVELOPMENT	March 2008	August 2019
SAN ANTONIO, TEXAS	SERVICE ARRANGEMENT	DD-824-05	SHEET 1 OF 3



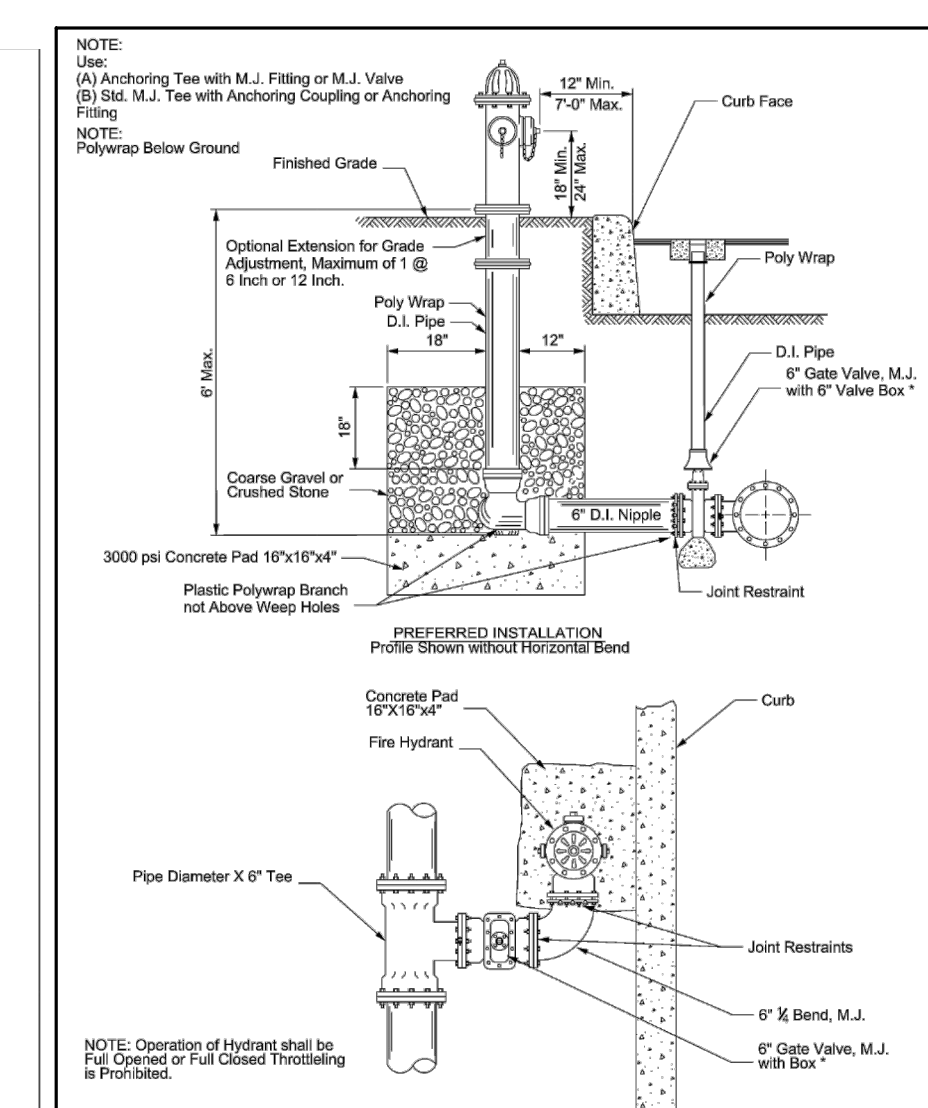
PROPERTY OF	TYPICAL	APPROVED	REVISED
SAN ANTONIO WATER SYSTEM	SERVICE ARRANGEMENT	March 2008	August 2019
SAN ANTONIO, TEXAS	SERVICE ARRANGEMENT	DD-824-05	SHEET 2 OF 3



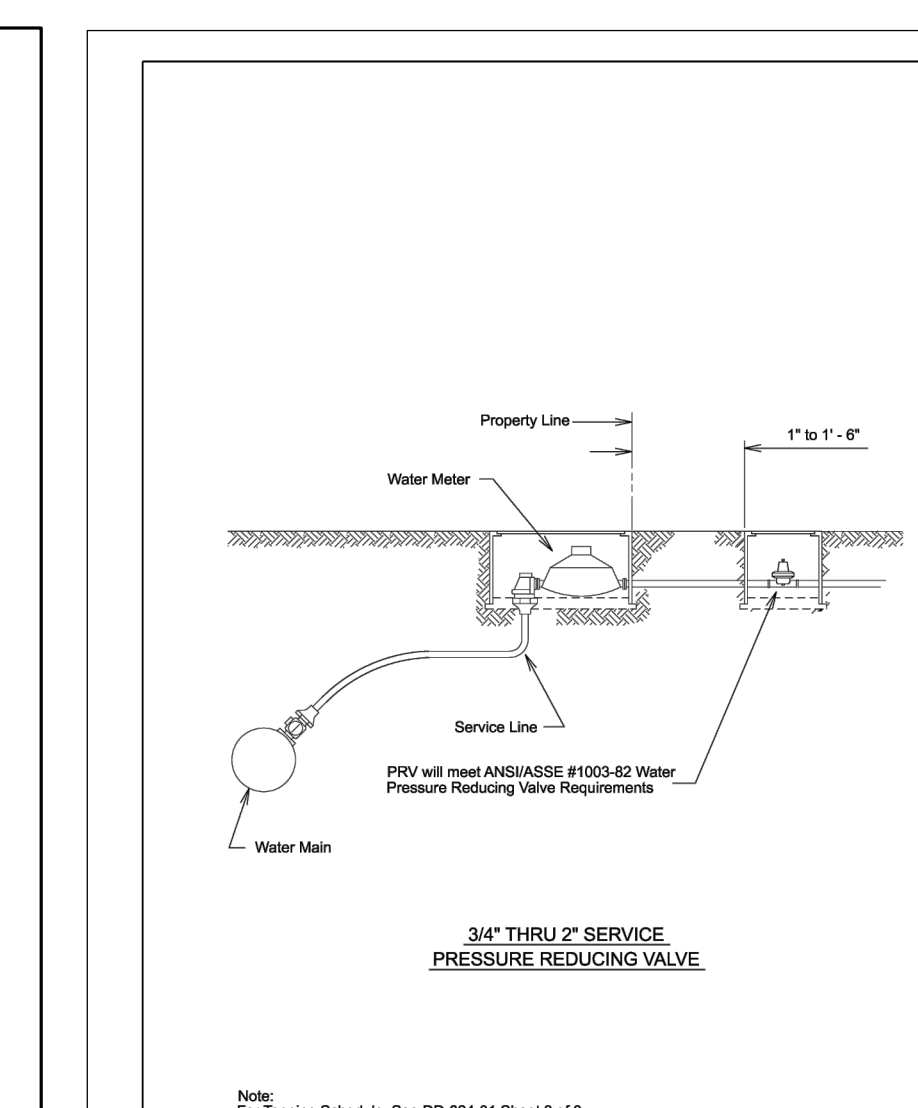
PROPERTY OF	TYPICAL	APPROVED	REVISED
SAN ANTONIO WATER SYSTEM	SERVICE ARRANGEMENT	March 2008	August 2019
SAN ANTONIO, TEXAS	SERVICE ARRANGEMENT	DD-828-01	SHEET 1 OF 1



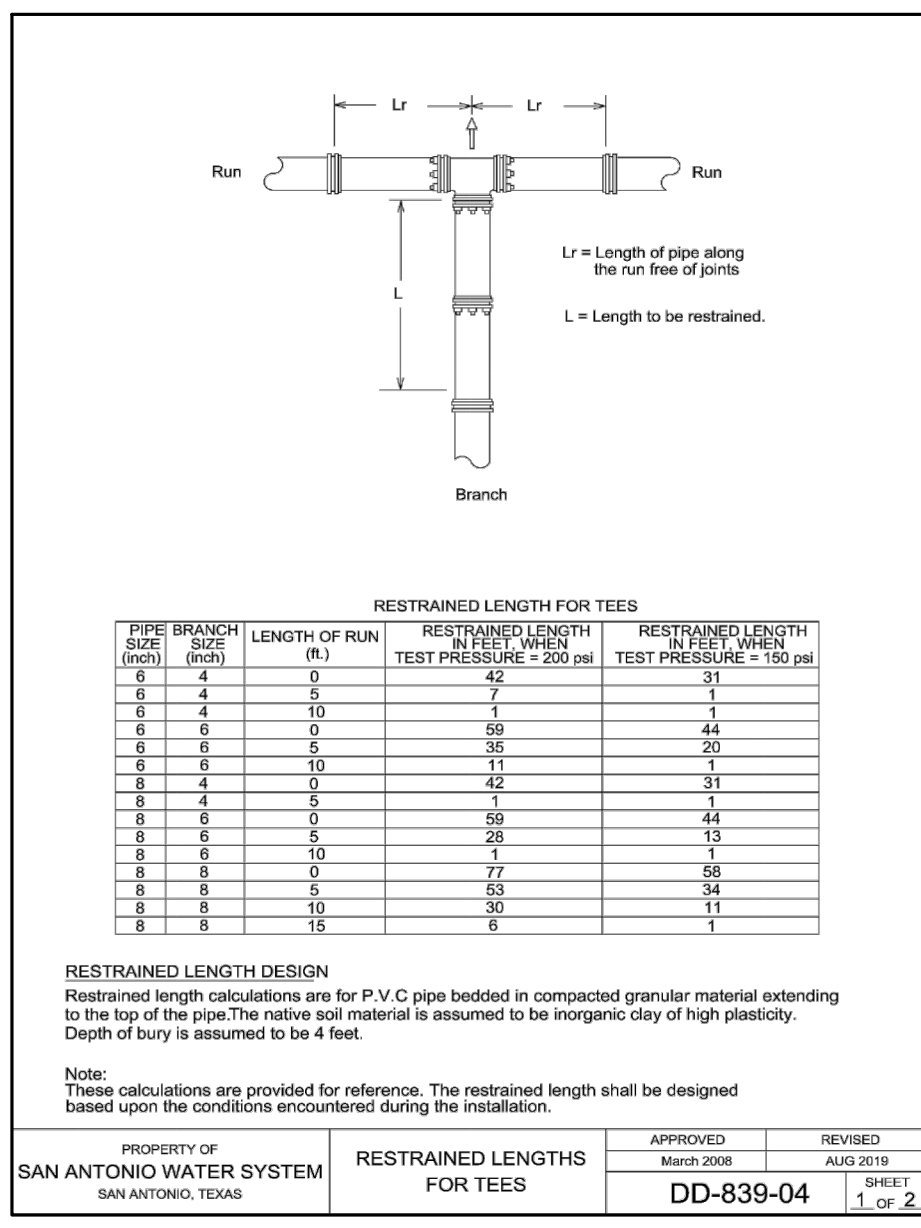
PROPERTY OF	TYPICAL	APPROVED	REVISED
SAN ANTONIO WATER SYSTEM	SERVICE ARRANGEMENT	March 2008	August 2019
SAN ANTONIO, TEXAS	SERVICE ARRANGEMENT	DD-828-04	SHEET 1 OF 1



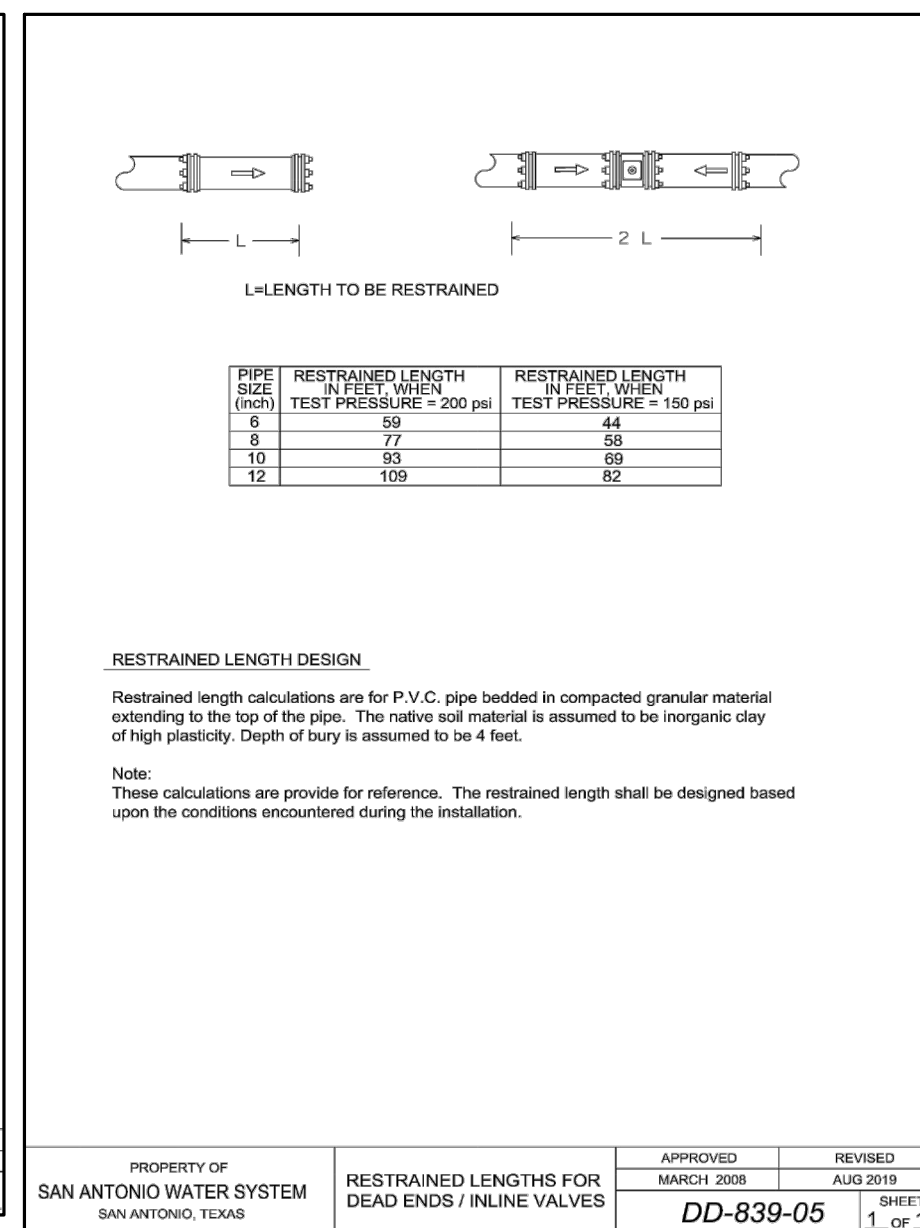
PROPERTY OF	TYPICAL	APPROVED	REVISED
SAN ANTONIO WATER SYSTEM	SERVICE ARRANGEMENT	March 2008	August 2019
SAN ANTONIO, TEXAS	SERVICE ARRANGEMENT	DD-834-01	SHEET 1 OF 3



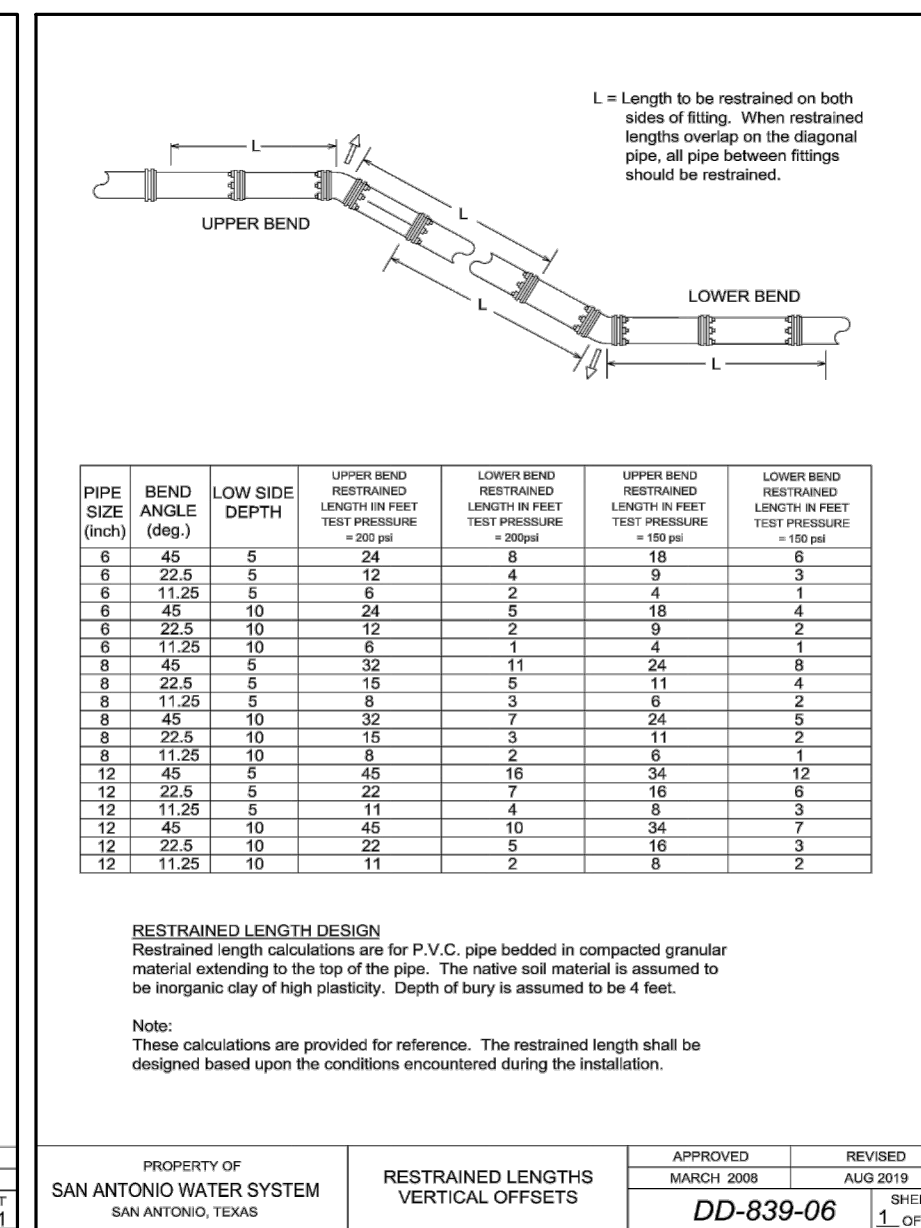
PROPERTY OF	TYPICAL	APPROVED	REVISED
SAN ANTONIO WATER SYSTEM	SERVICE ARRANGEMENT	March 2008	August 2019
SAN ANTONIO, TEXAS	SERVICE ARRANGEMENT	DD-833-03	SHEET 1 OF 3



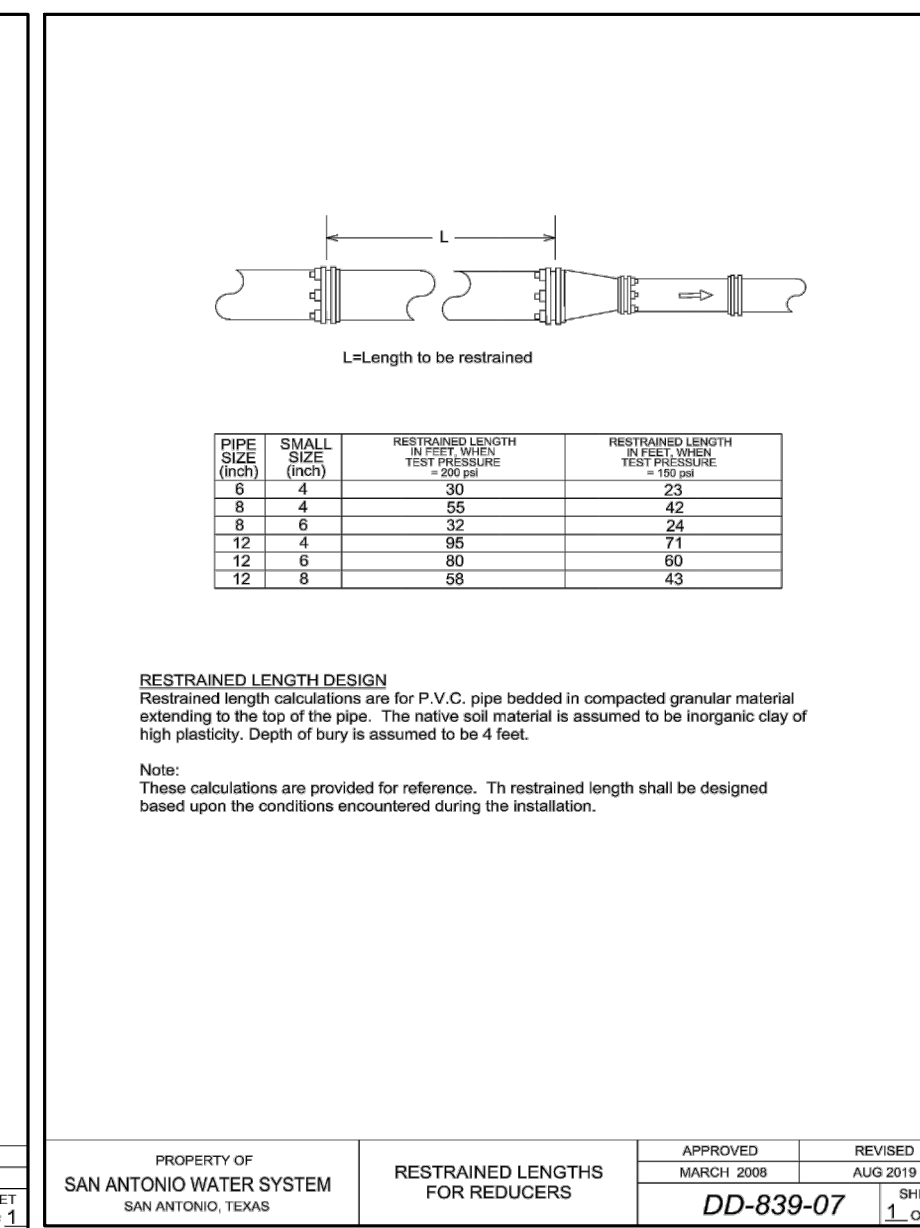
PROPERTY OF	TYPICAL	APPROVED	REVISED
SAN ANTONIO WATER SYSTEM	SERVICE ARRANGEMENT	March 2008	August 2019
SAN ANTONIO, TEXAS	SERVICE ARRANGEMENT	DD-839-04	SHEET 1 OF 2



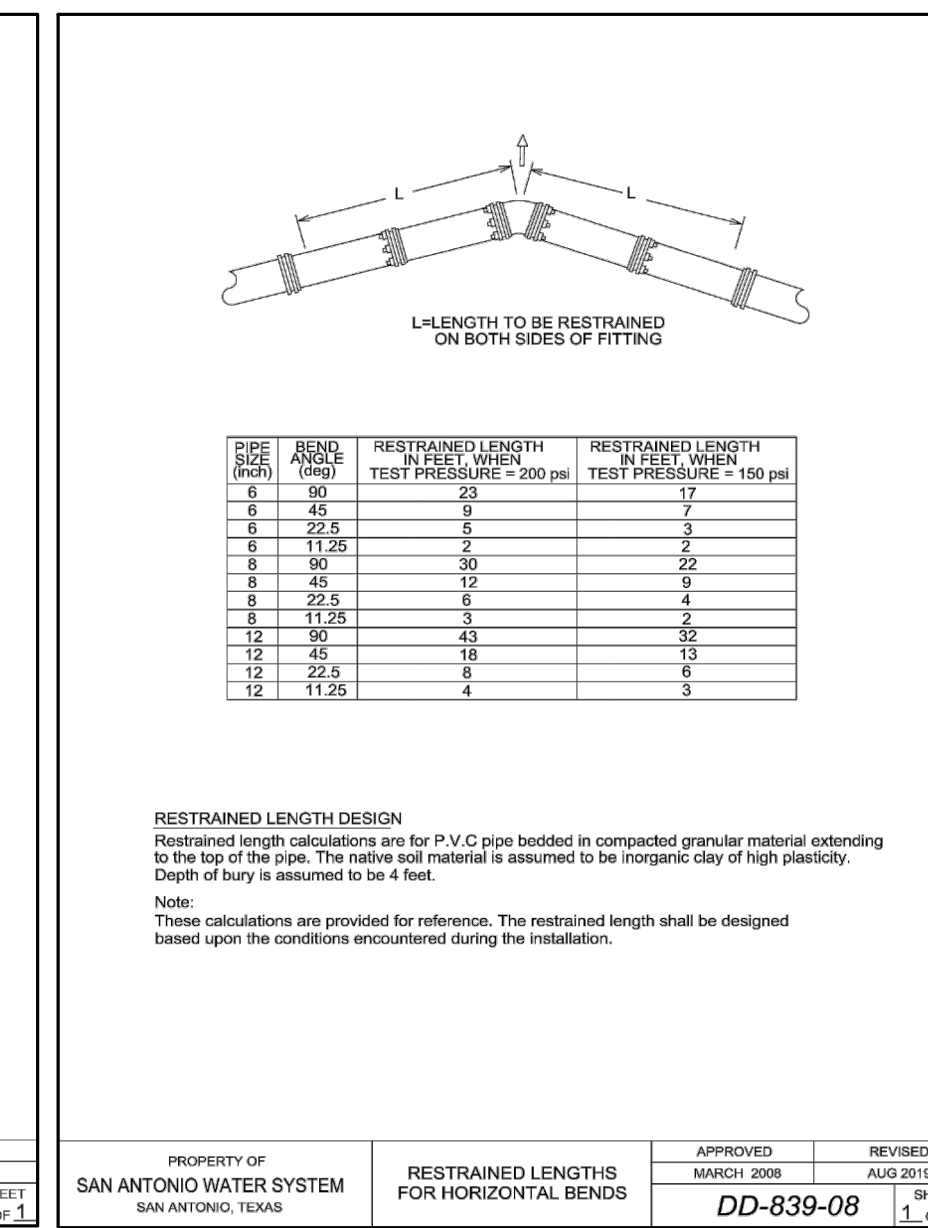
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SAN ANTONIO WATER SYSTEM	SERVICE ARRANGEMENT	March 2008	August 2019
SAN ANTONIO, TEXAS	SERVICE ARRANGEMENT	DD-839-05	SHEET 1 OF 1



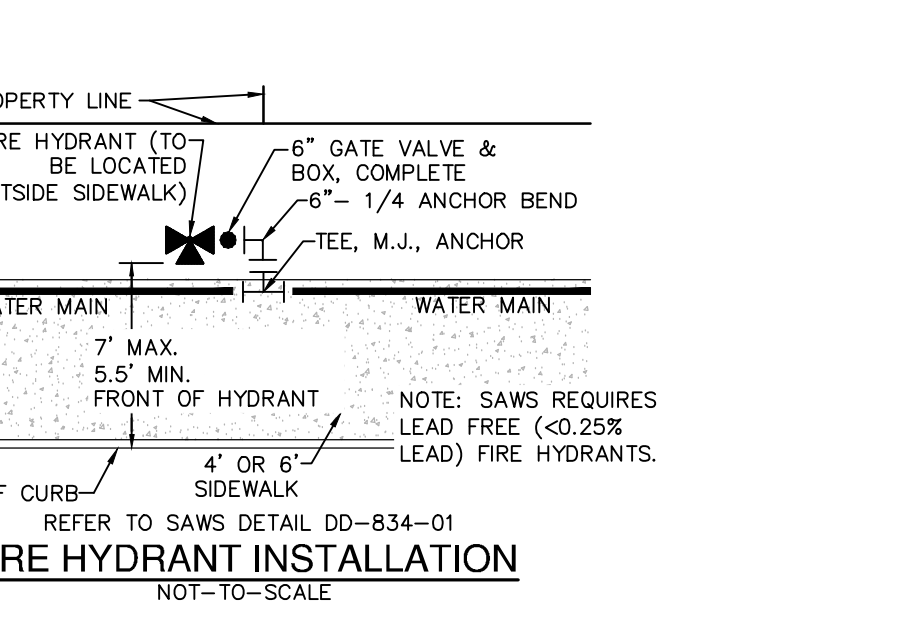
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SAN ANTONIO, TEXAS	SERVICE ARRANGEMENT	DD-839-06	SHEET 1 OF 1



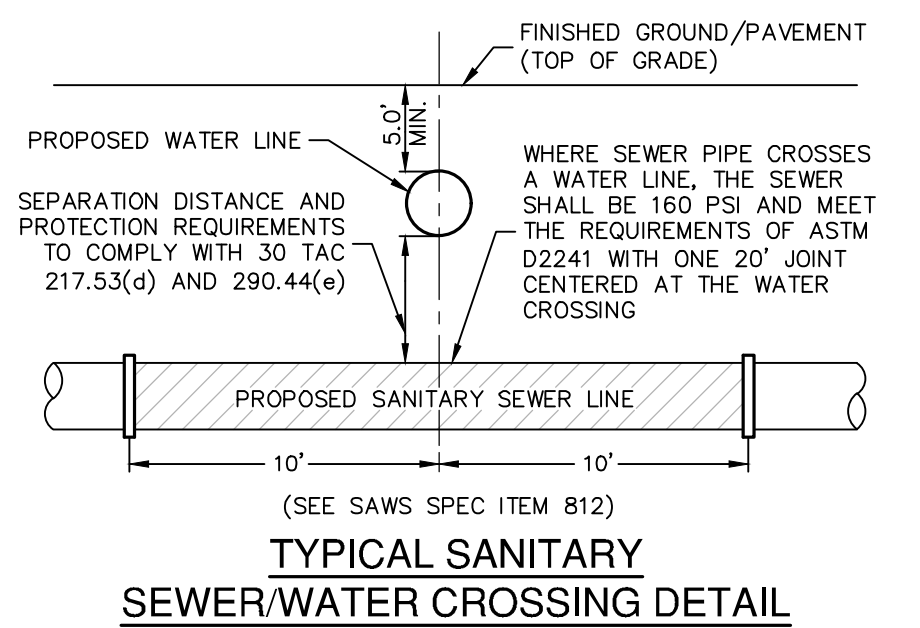
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SAN ANTONIO, TEXAS	SERVICE ARRANGEMENT	DD-839-07	SHEET 1 OF 1



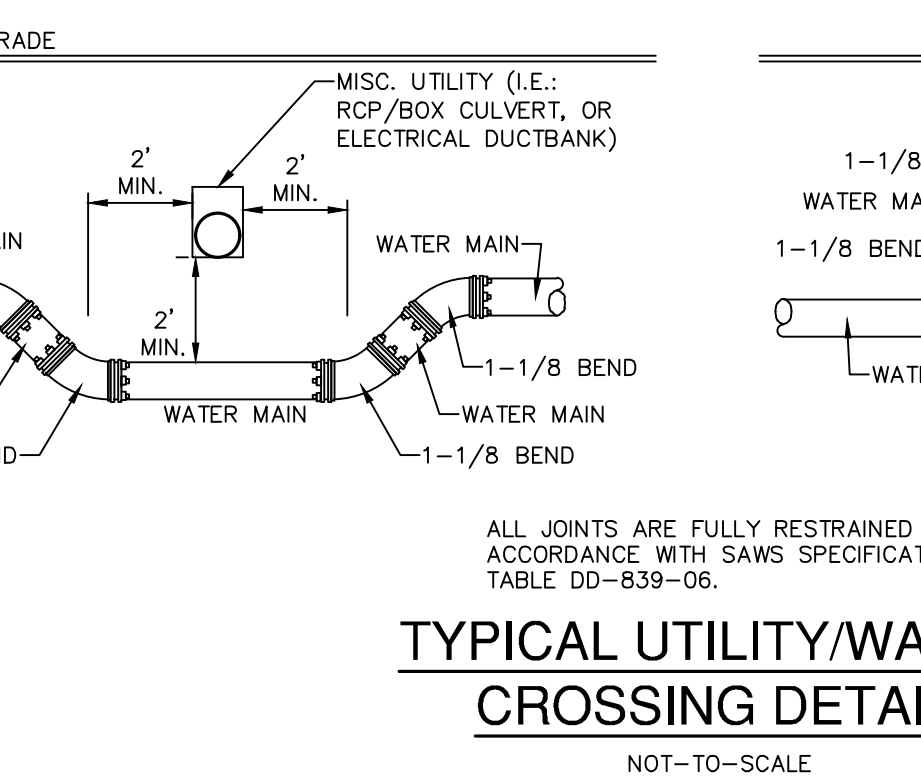
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SAN ANTONIO, TEXAS	SERVICE ARRANGEMENT	DD-839-08	SHEET 1 OF 1



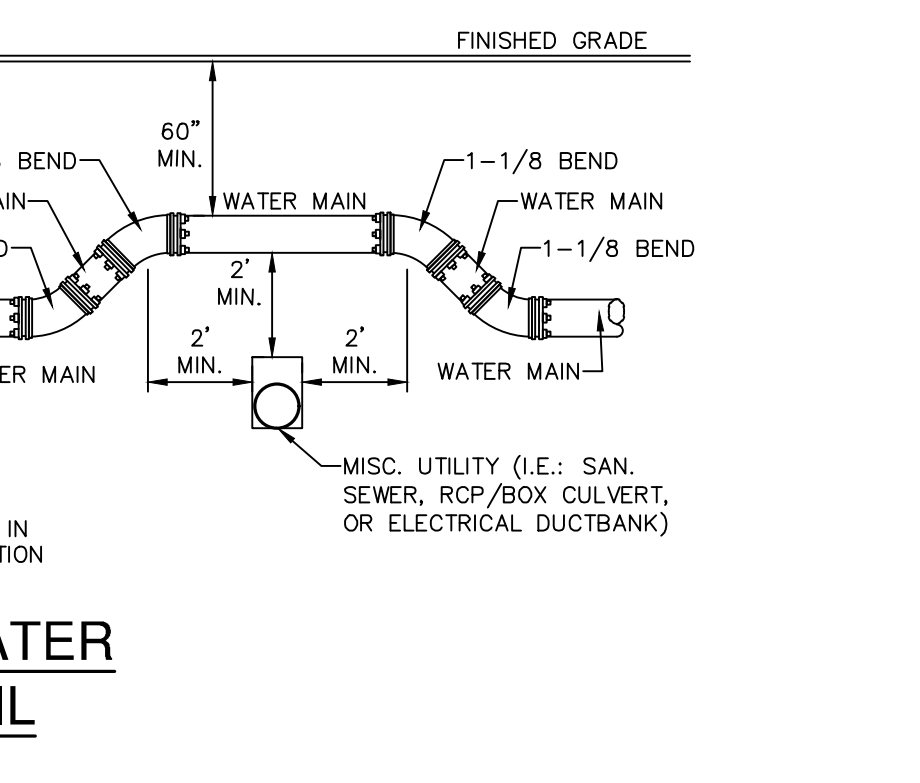
PROPERTY OF	TYPICAL	APPROVED	REVISED
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SAN ANTONIO, TEXAS	SERVICE ARRANGEMENT	DD-834-01	SHEET 1 OF 1



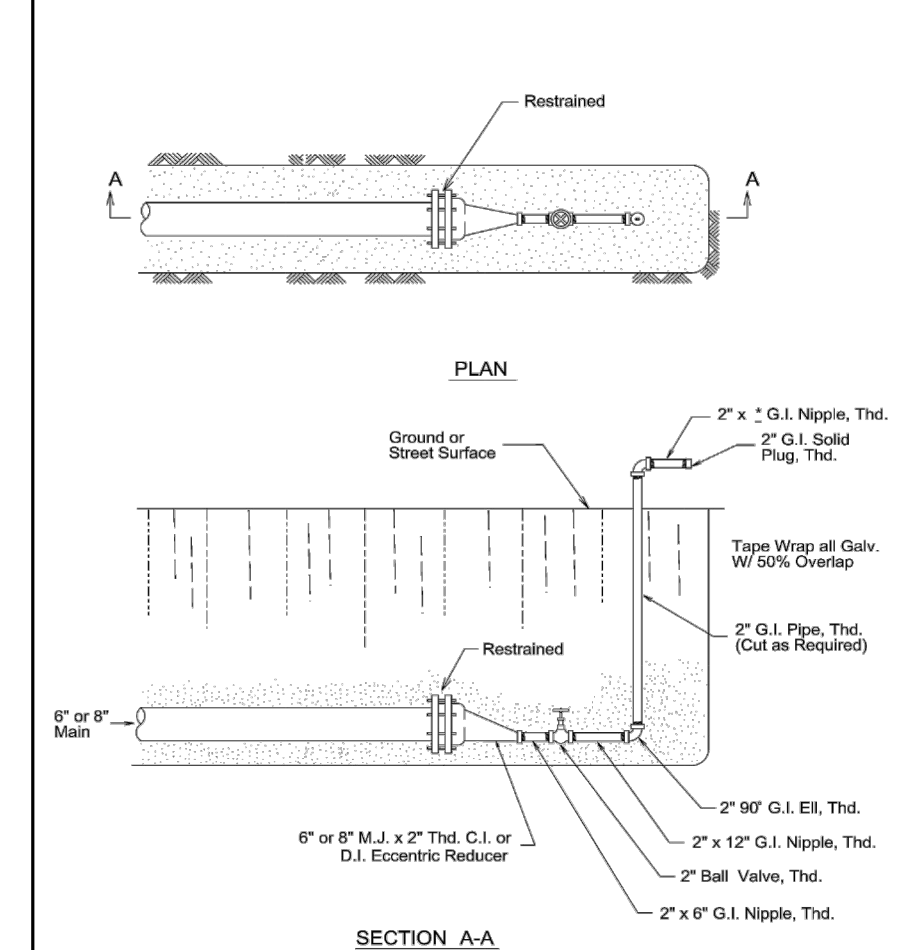
PROPERTY OF	TYPICAL	APPROVED	REVISED
SAN ANTONIO WATER SYSTEM	SERVICE ARRANGEMENT	March 2008	August 2019
SAN ANTONIO, TEXAS	SERVICE ARRANGEMENT	DD-844-01	SHEET 1 OF 4



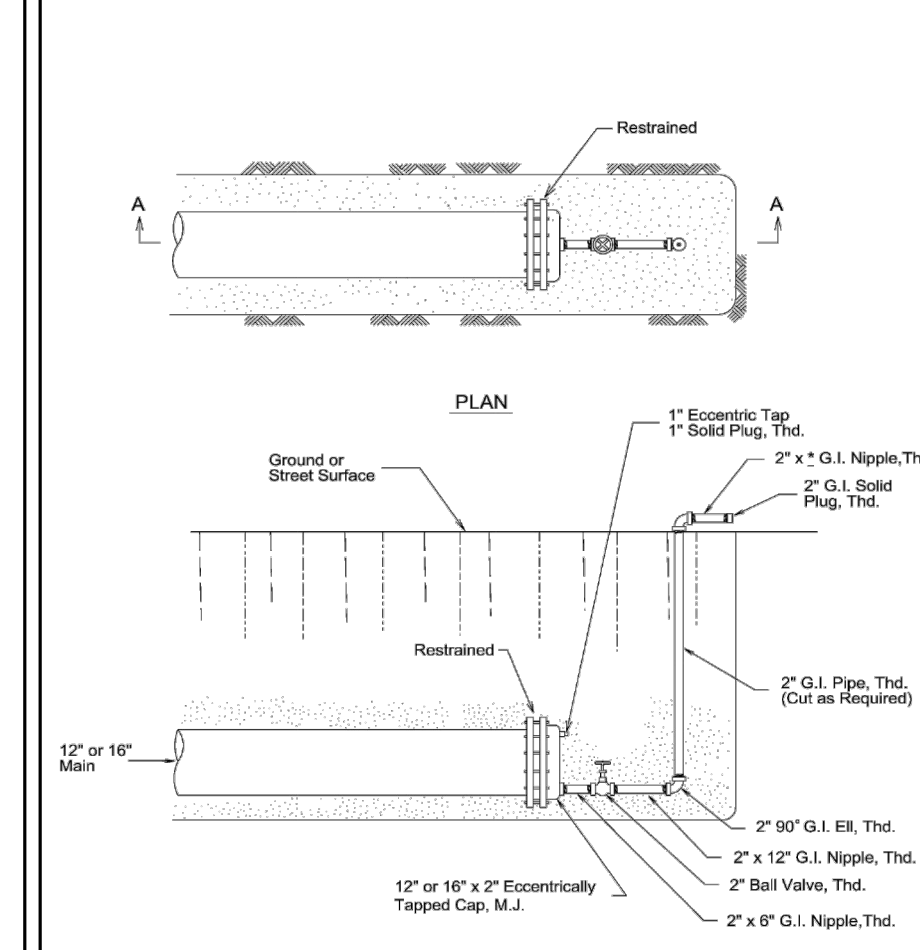
PROPERTY OF	TYPICAL	APPROVED	REVISED
SAN ANTONIO WATER SYSTEM	SERVICE ARRANGEMENT	March 2008	August 2019
SAN ANTONIO, TEXAS	SERVICE ARRANGEMENT	DD-844-02	SHEET 1 OF 3



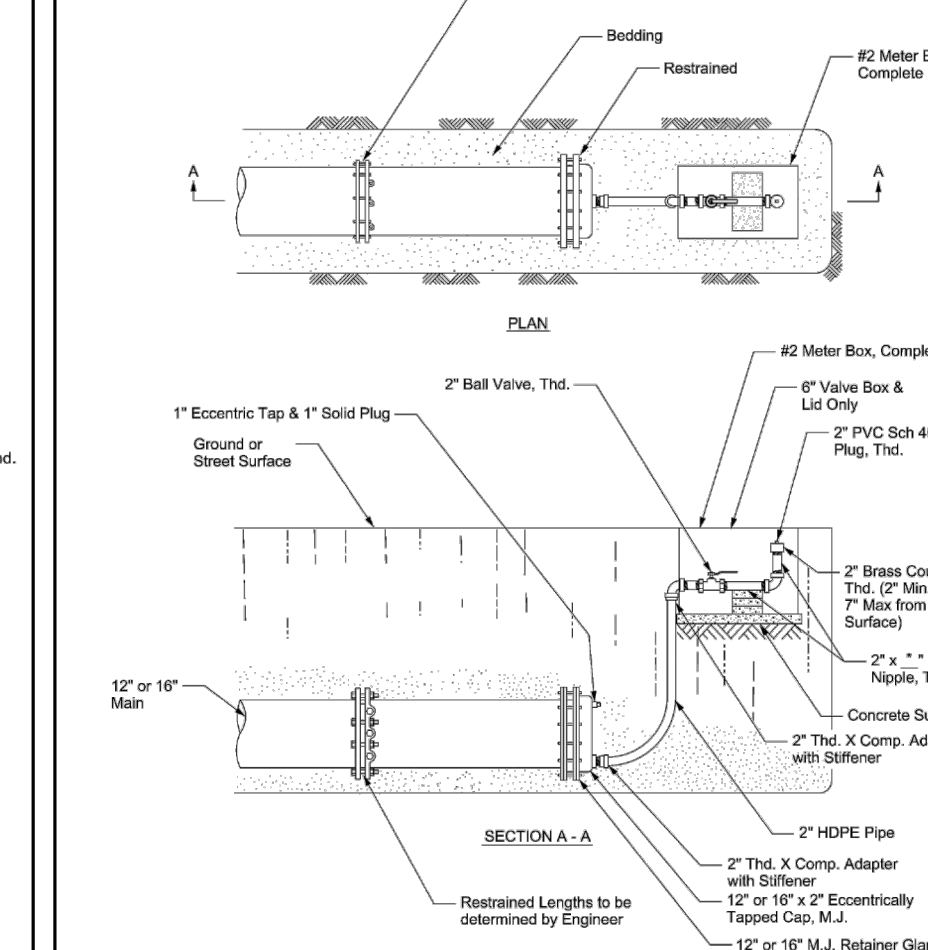
PROPERTY OF	TYPICAL	APPROVED	REVISED
SAN ANTONIO WATER SYSTEM	SERVICE ARRANGEMENT	March 2008	August 2019
SAN ANTONIO, TEXAS	SERVICE ARRANGEMENT	DD-844-02	SHEET 2 OF 3



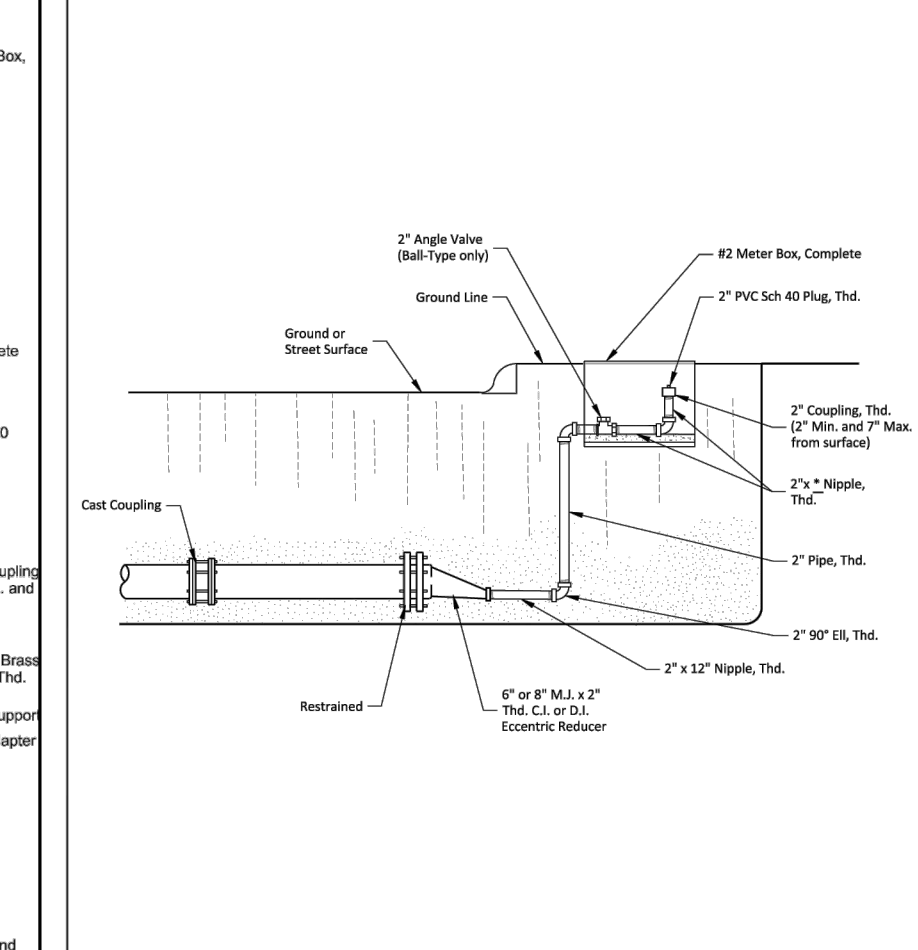
PROPERTY OF	TYPICAL	APPROVED	REVISED
SAN ANTONIO WATER SYSTEM	SERVICE ARRANGEMENT	March 2008	August 2019
SAN ANTONIO, TEXAS	SERVICE ARRANGEMENT	DD-844-02	SHEET 3 OF 3



PROPERTY OF	TYPICAL	APPROVED	REVISED
SAN ANTONIO WATER SYSTEM	SERVICE ARRANGEMENT	March 2008	August 2019
SAN ANTONIO, TEXAS	SERVICE ARRANGEMENT	DD-844-02	SHEET 4 OF 4



PROPERTY OF	TYPICAL	APPROVED	REVISED
SAN ANTONIO WATER SYSTEM	SERVICE ARRANGEMENT	March 2008	August 2019
SAN ANTONIO, TEXAS	SERVICE ARRANGEMENT	DD-844-02	SHEET 5 OF 5



PROPERTY OF	TYPICAL	APPROVED	REVISED
SAN ANTONIO WATER SYSTEM	SERVICE ARRANGEMENT	March 2008	August 2019
SAN ANTONIO, TEXAS	SERVICE ARRANGEMENT	DD-844-02	SHEET 6 OF 6

WATER (SAWS PRESSURE ZONE 930)

DEVELOPER'S NAME: HAND-UP HOMES, LLC

ADDRESS: 311 PROBANDT STREET

CITY: SAN ANTONIO STATE: TEXAS ZIP: 78204

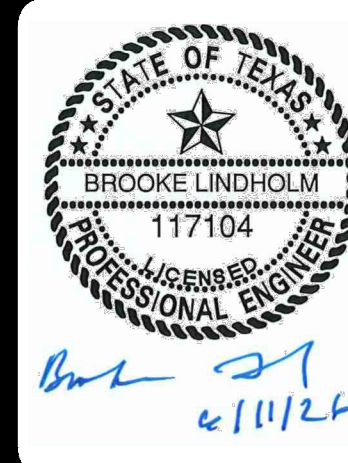
PHONE: (210) 223-5203

SAWS BLOCK MAP: 145882 TOTAL EDU'S: 28 TOTAL ACREAGE: 4.653

TOTAL LINEAR FOOTAGE OF PIPE: 8' ~ 676 LF PLAT NO. 25-11800510

NUMBER OF LOTS: 28 SAWS JOB NO. 26-1044

DATE	REVISION	UPDATED DEVELOPER NAME
6/10/2026	1	WATER LF
		REVISED TOTAL



PAPE-DAWSON

2000 NW LOOP #110 I SAN ANTONIO, TX 78213 I 210.375.9000

TEXAS ENGINEERING FIRM #470 I TEXAS SURVEYING FIRM #10028600

FORTUNA

SAN ANTONIO, TEXAS

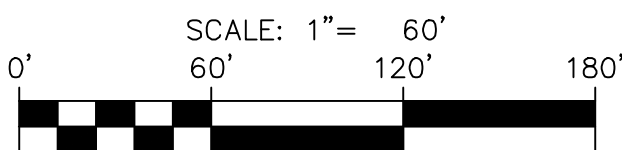
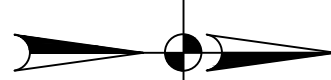
WATER DISTRIBUTION PLAN DETAILS

PLAT NO.	25-11800510
JOB NO.	13255-01
DATE	MARCH 2026
DESIGNER	RG
CHECKED	BL
DRAWN	AG
SHEET	C4.10



LOCATION MAP

NOT-TO-SCALE



SEWER LEGEND

PROJECT LIMITS

EXISTING WATER

PROPOSED SEWER

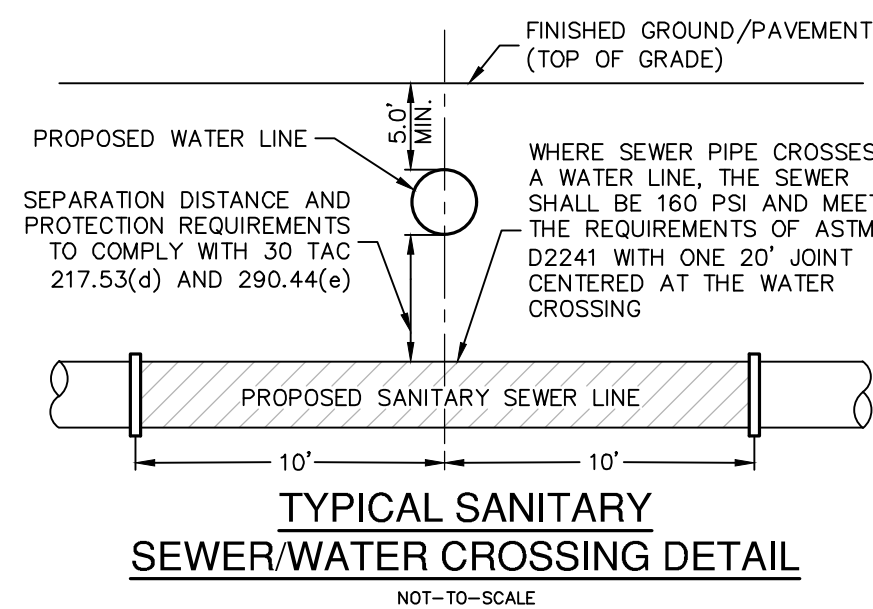
PROPOSED WATER

PROPOSED SEWER LATERAL

FINISHED FLOOR ELEVATION
FOR GEMER

KEYED NOTES:

- 1 14' GAS, ELECTRIC, TELEPHONE
AND CABLE TV EASEMENT
- 3 10' GAS, ELECTRIC, TELEPHONE
AND CABLE TV 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 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 DIG-TEST A MINIMUM OF 4 FEET 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 OF THE TRENCH SAFETY PROJECT WORK AREA IN ORDER TO DETERMINE THE 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 BE BASED ON THE CONTRACTOR'S TRENCH EXCAVATION SAFETY PROTECTION THE COMPLY WITH AS A MINIMUM, THE STANDARD PRACTICES 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 OSHA TRENCHING AND SHIELDING STANDARDS, ACTIVITIES OF INDIVIDUALS WORKING IN AND AROUND TRENCH EXCAVATION.

SEWER (MIDDLE-CENTRAL SEWERSHED-DOS RIOS/LEON CREEK)

DEVELOPER'S NAME: HAND-UP HOMES, LLC 
ADDRESS: 311 PROBANDT STREET
CITY: SAN ANTONIO STATE: TEXAS ZIP: 78204
PHONE# (210) 223-8203
SAWS BLOCK MAP# 136582 TOTAL EDU'S 28 TOTAL ACREAGE 4.653
TOTAL LINEAR FOOTAGE OF PIPE: 8" = 795 LF PLAT NO. 25-11800510
NUMBER OF LOTS 28 SAWS JOB NO. 26-1535

[illegible]

Book 27
11/11/26

PAPE-DAWSON

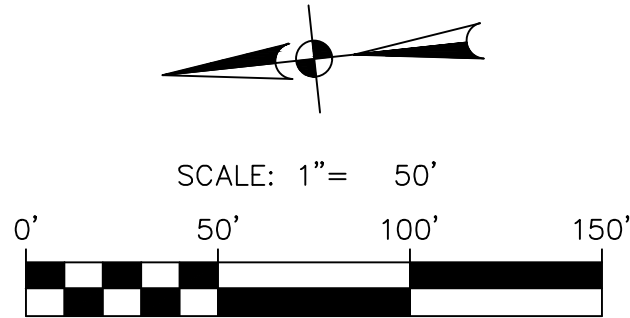
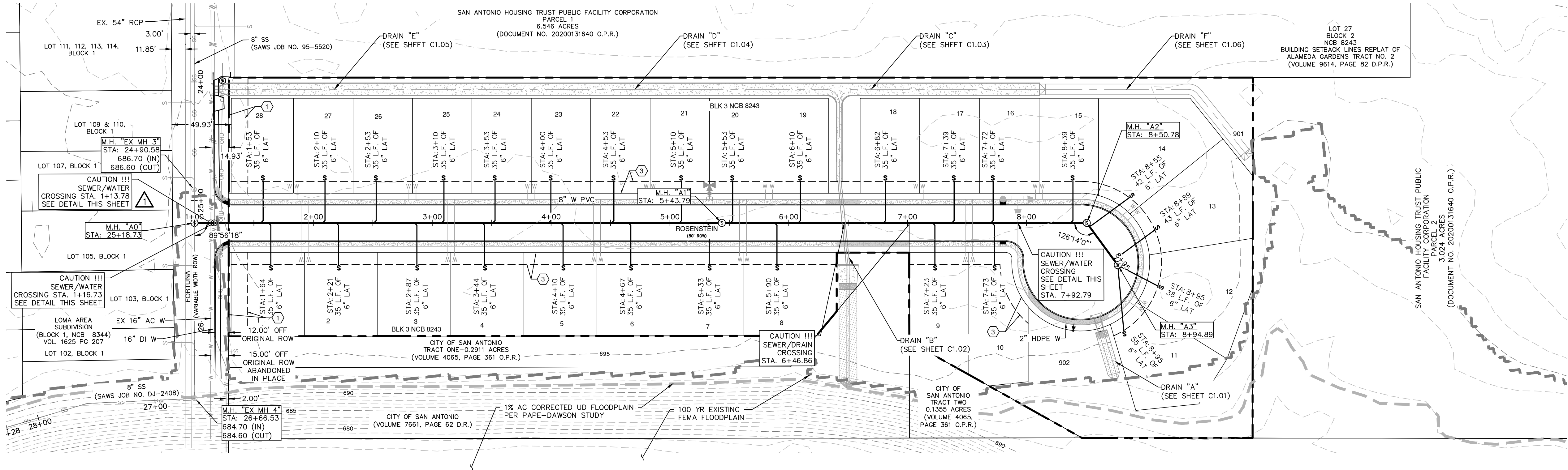
2000 NW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000
TEXAS ENGINEERING FIRM #470 | TEXAS SURVEYING FIRM #10028800

OVERALL SANITARY SEWER PLAN

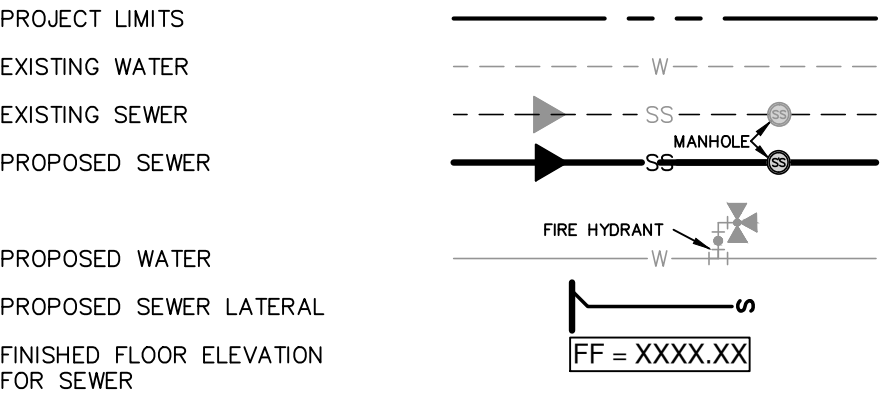
FORTUNA
SAN ANTONIO, TEXAS

OVERALL SANITARY SEWER PLAN

PLAT NO. 25-11800510
JOB NO. 13255-01
DATE MARCH 2026
DESIGNER RG
CHECKED BL DRAWN AG
SHEET C5.00



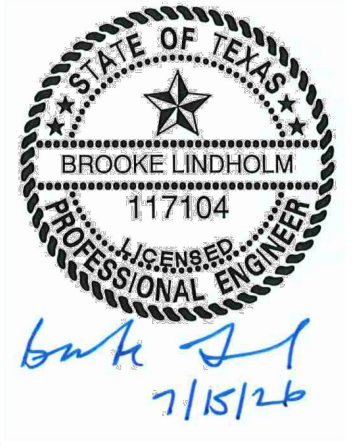
SEWER LEGEND



KEYED NOTES:

- 1 14" GAS, ELECTRIC, TELEPHONE AND CABLE TV EASEMENT
- 3 10" GAS, ELECTRIC, TELEPHONE AND CABLE TV EASEMENT

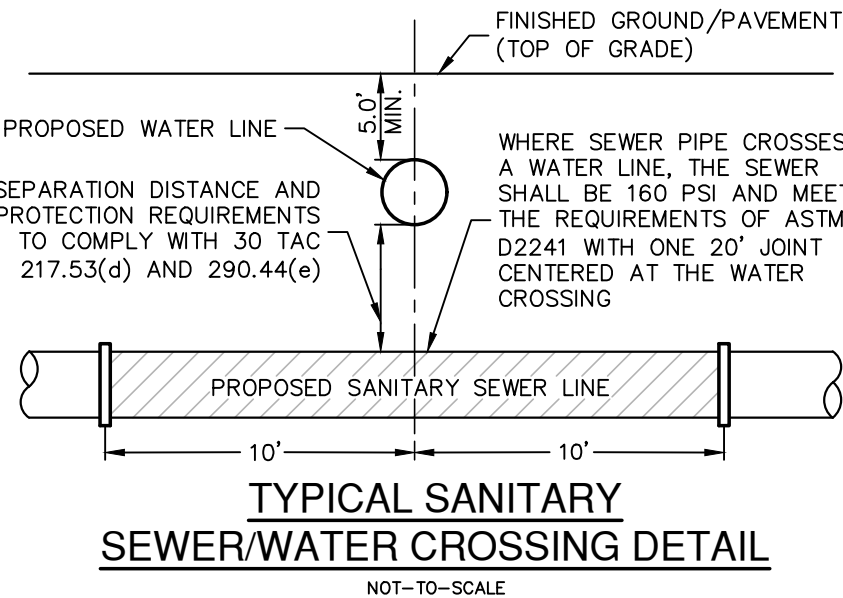
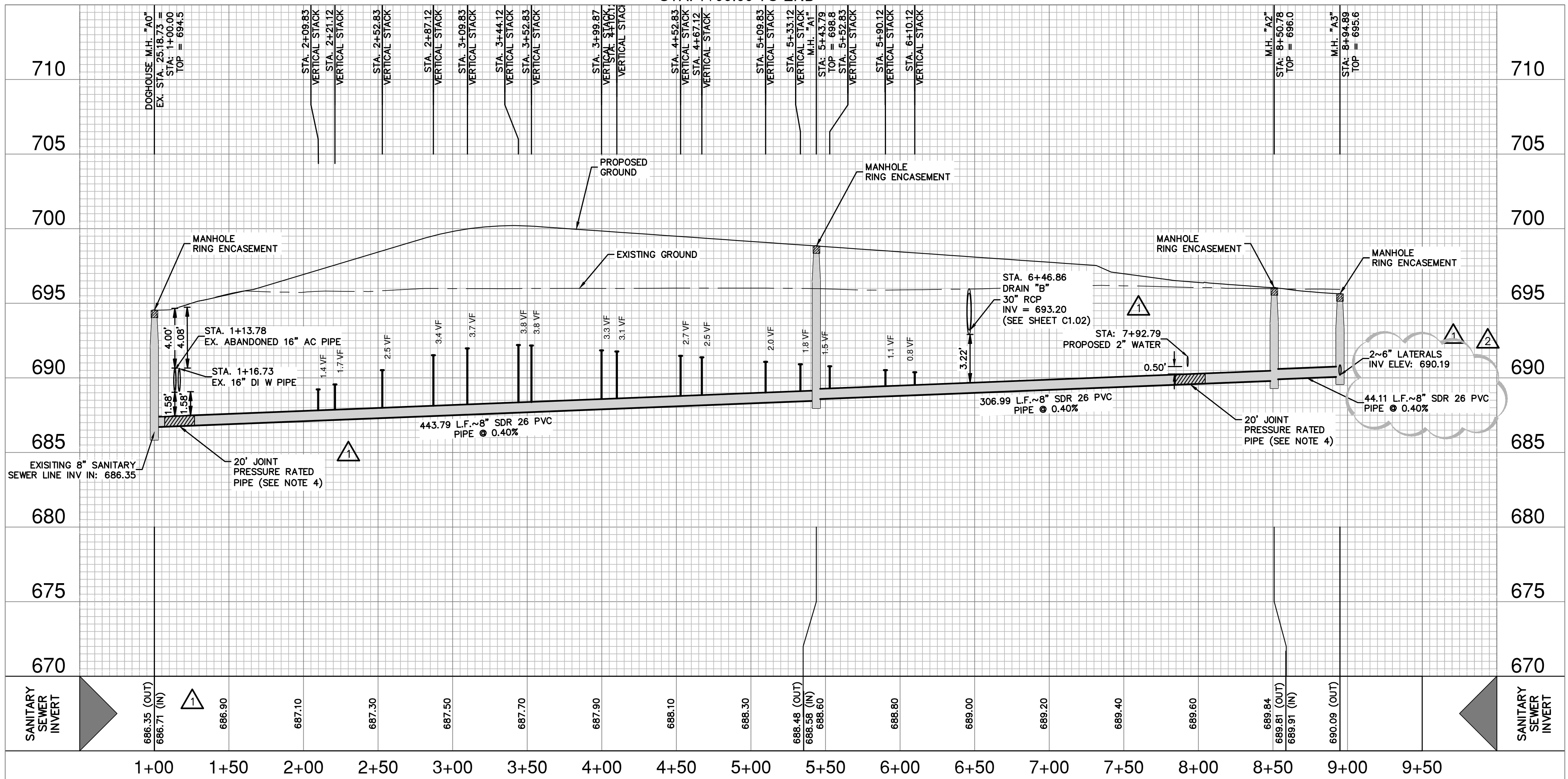
NO.	REVISION	DATE
1	UPDATED DEVELOPER NAME	6/10/2026
1	REVISED SEWER FLOWLINE/TIE	
	ADDED LATERAL INV.	
	REVISED WATER CROSSING	
2	ADDED LATERAL INV.	7/15/2026
	REVISED PROPOSED GROUND	
	ADDED PIPE LABEL	



PAPE-DAWSON
2000 NW LOOP 410 I SAN ANTONIO, TX 78213 I 210.375.9000
TEXAS ENGINEERING FIRM #470 I TEXAS SURVEYING FIRM #1028800

SANITARY SEWER LINE "A" STA. 1+00.00 TO END

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



NOTE TO CONTRACTOR:
EXISTING SANITARY SEWER MAIN TO REMAIN IN SERVICE AT ALL TIMES.

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 (MIDDLE-CENTRAL SEWERSHED-DOS RIOS/LEON CREEK)

DEVELOPER'S NAME: HAND-UP HOMES, LLC	
ADDRESS: 311 PROBANDT STREET	
CITY: SAN ANTONIO	STATE: TEXAS ZIP: 78204
PHONE# (210) 223-5203	
SAWS BLOCK MAP# 136582 TOTAL EDU'S 28 TOTAL ACREAGE 4.653	
TOTAL LINEAR FOOTAGE OF PIPE: 8" ~ 795 LF PLAT NO. 25-11800510	
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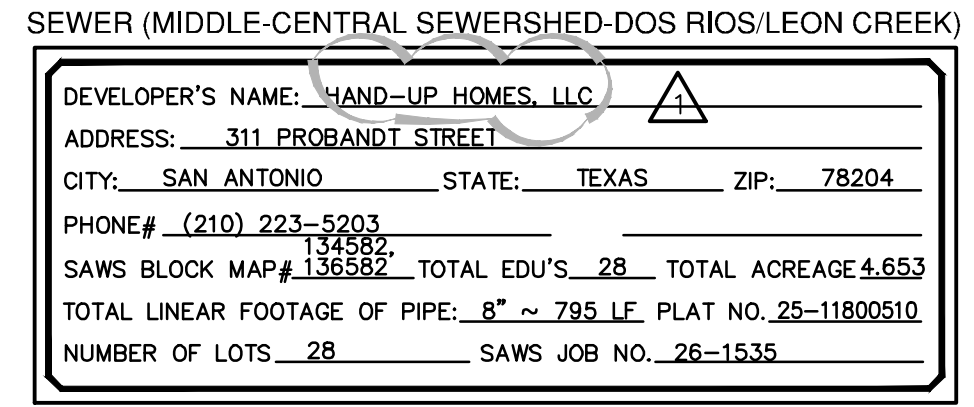
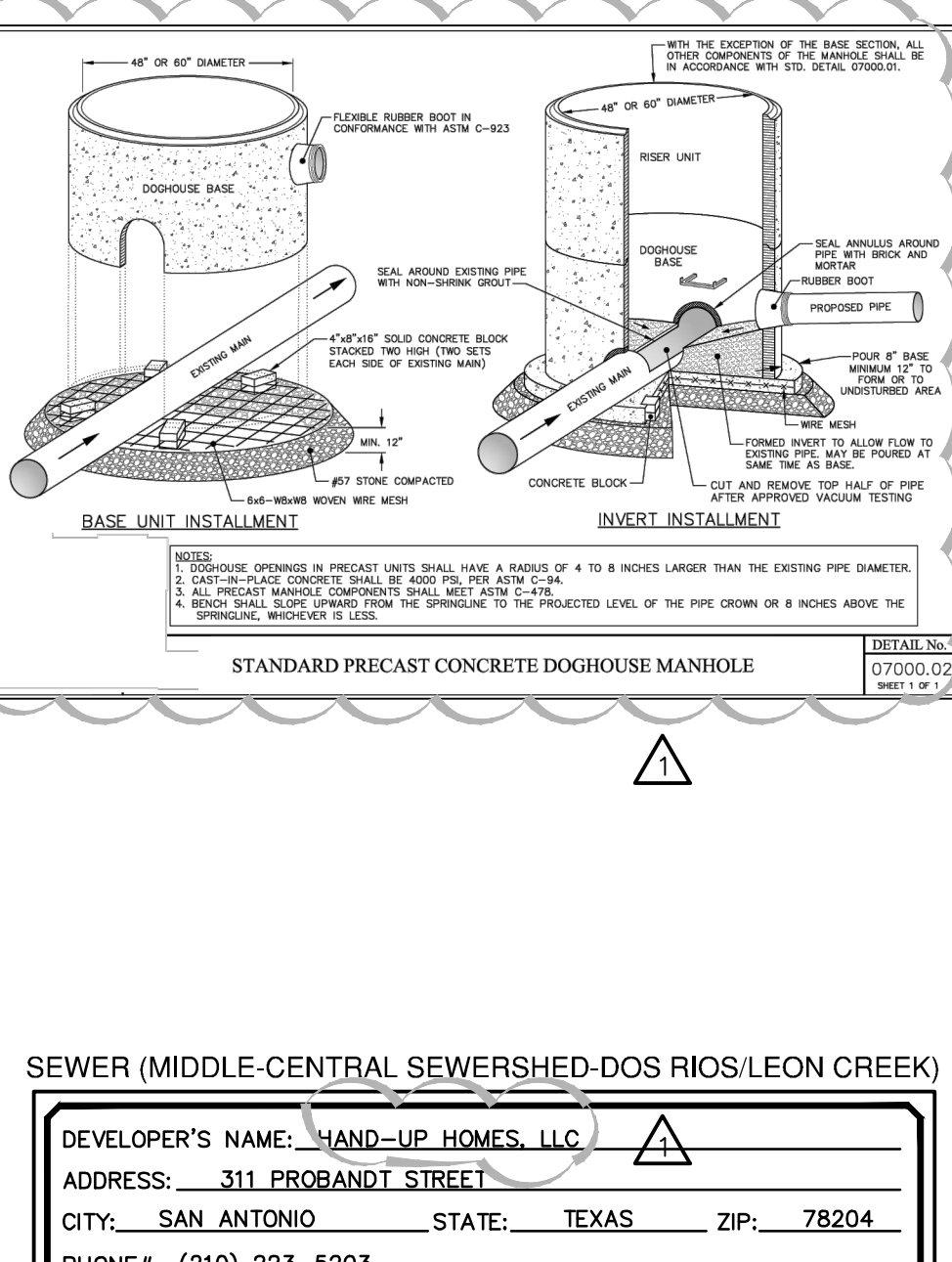
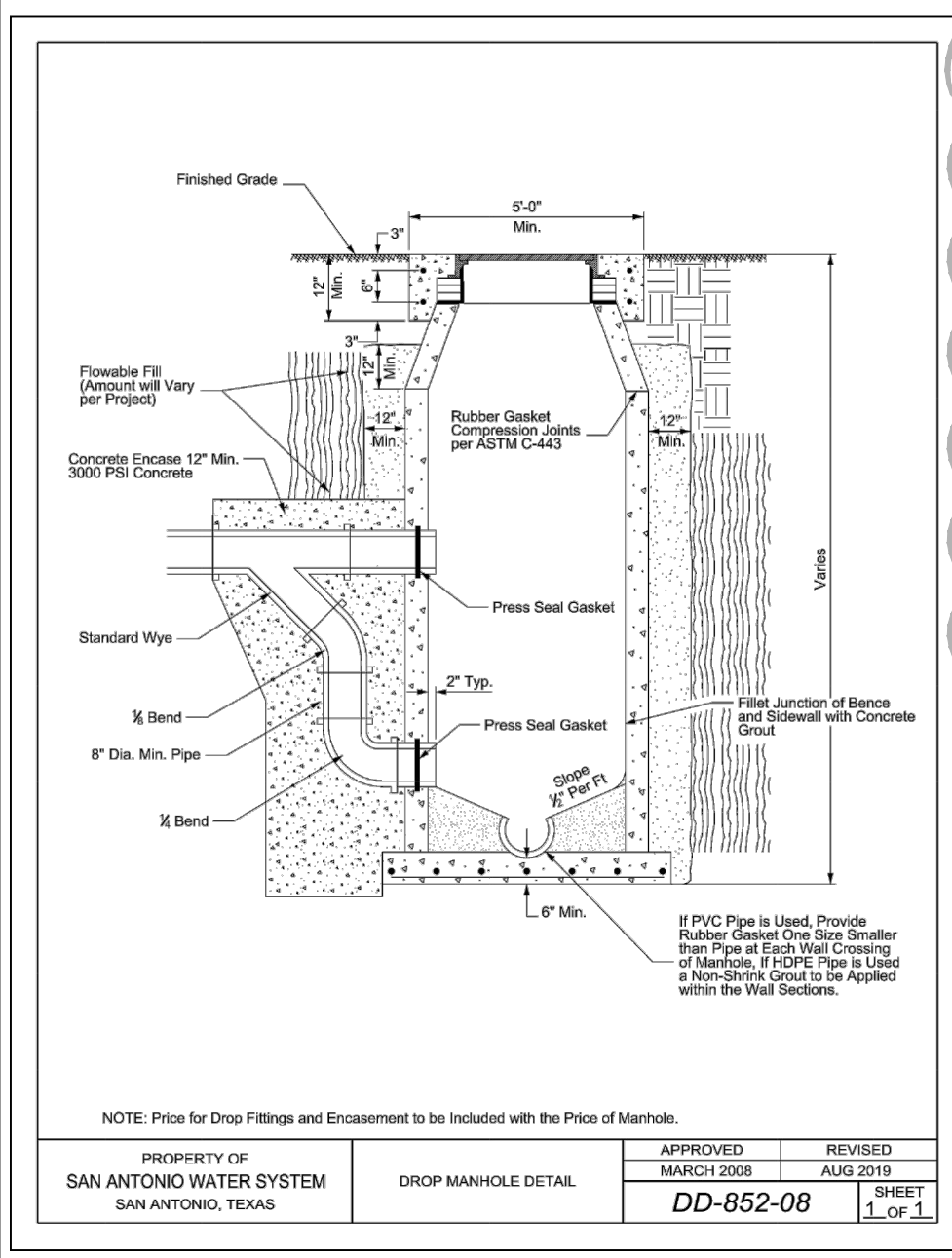
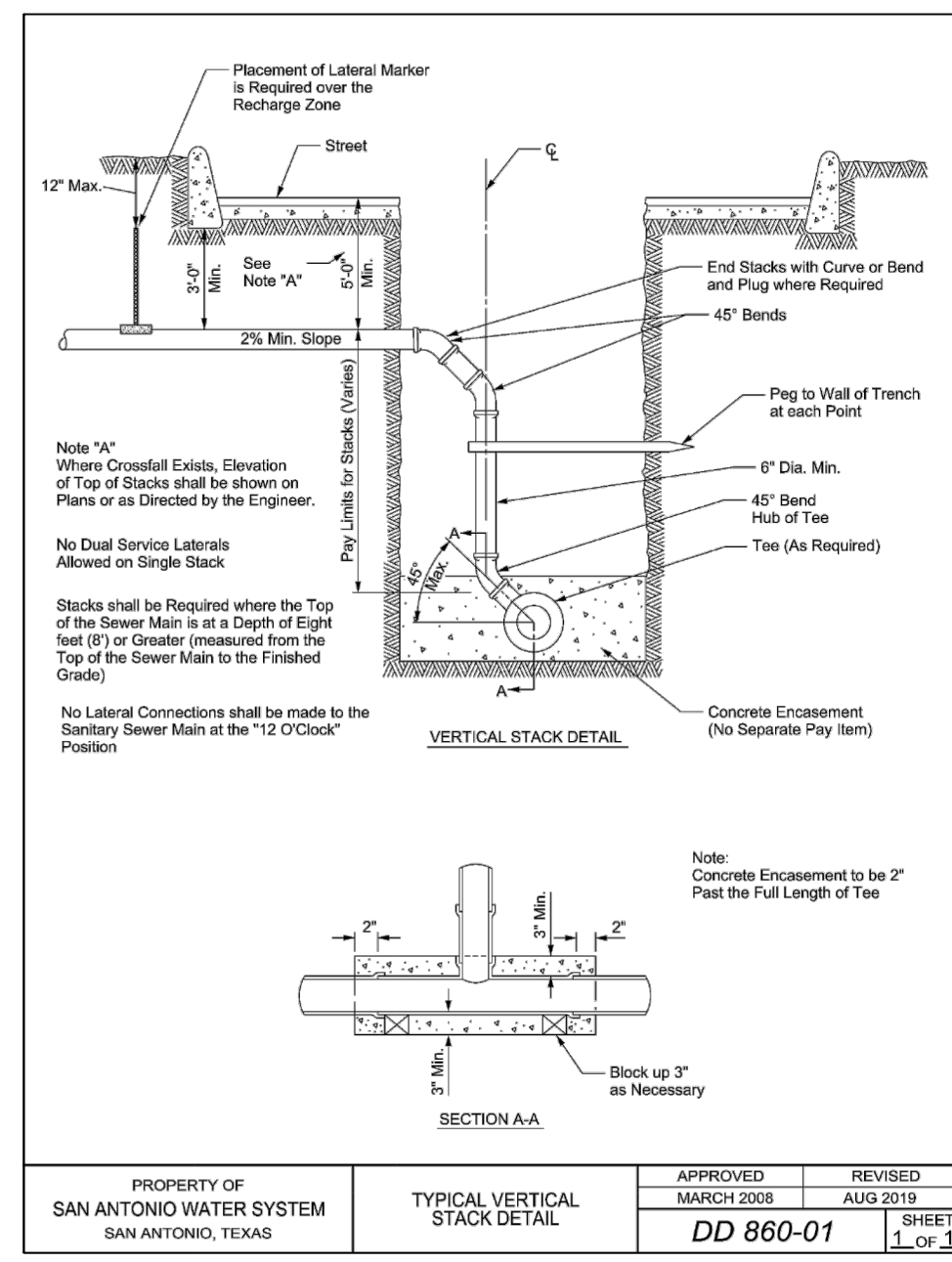
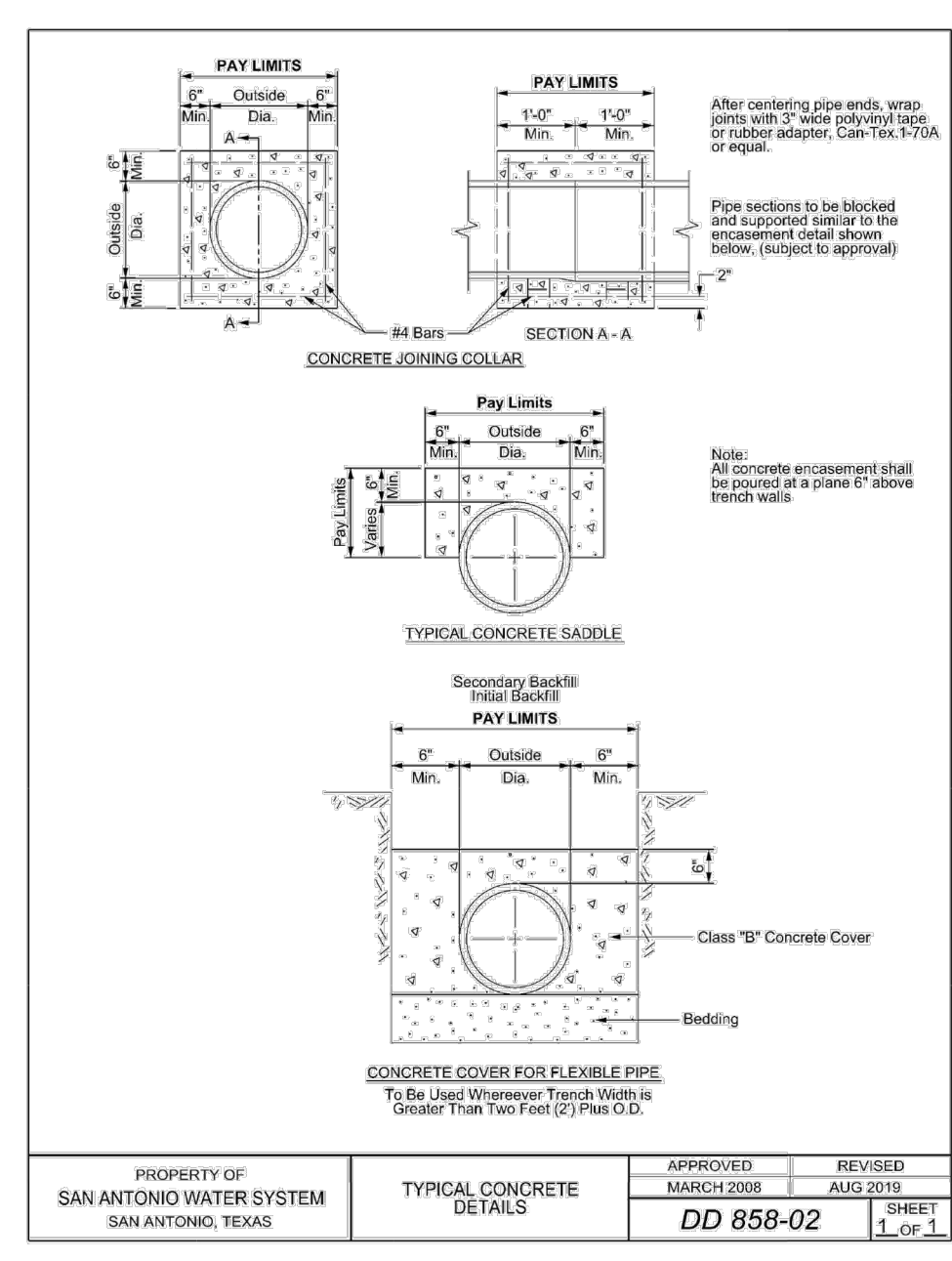
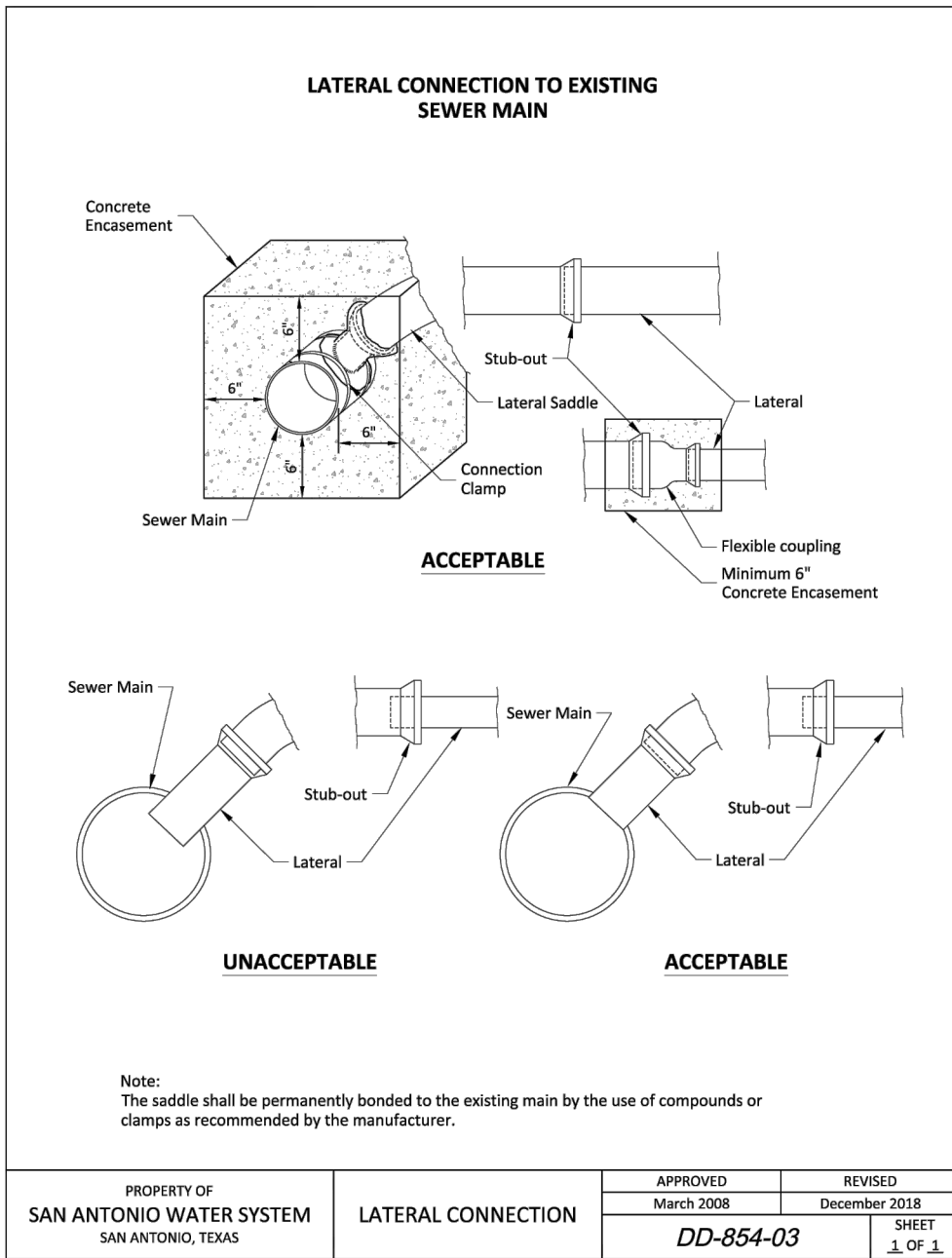
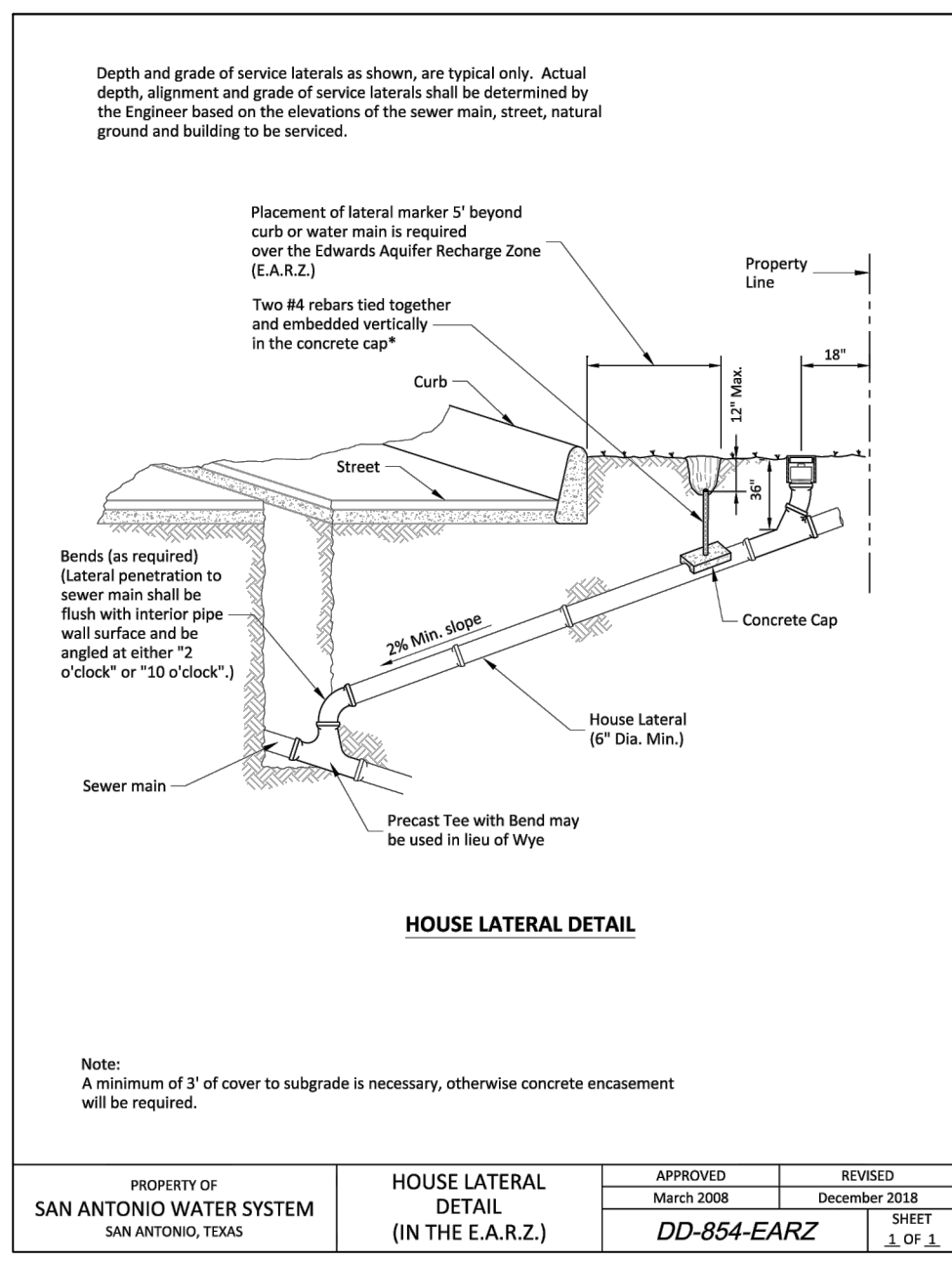
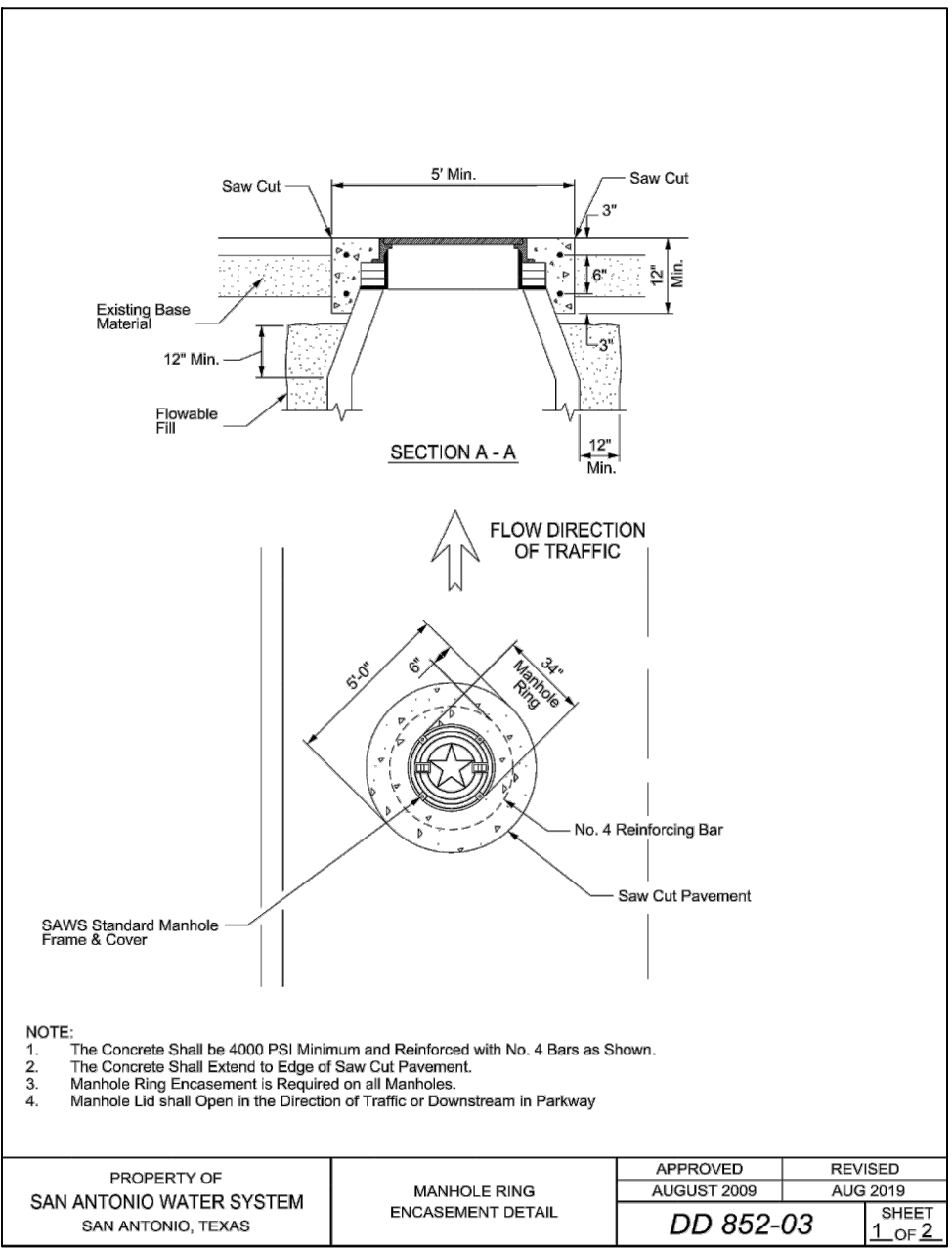
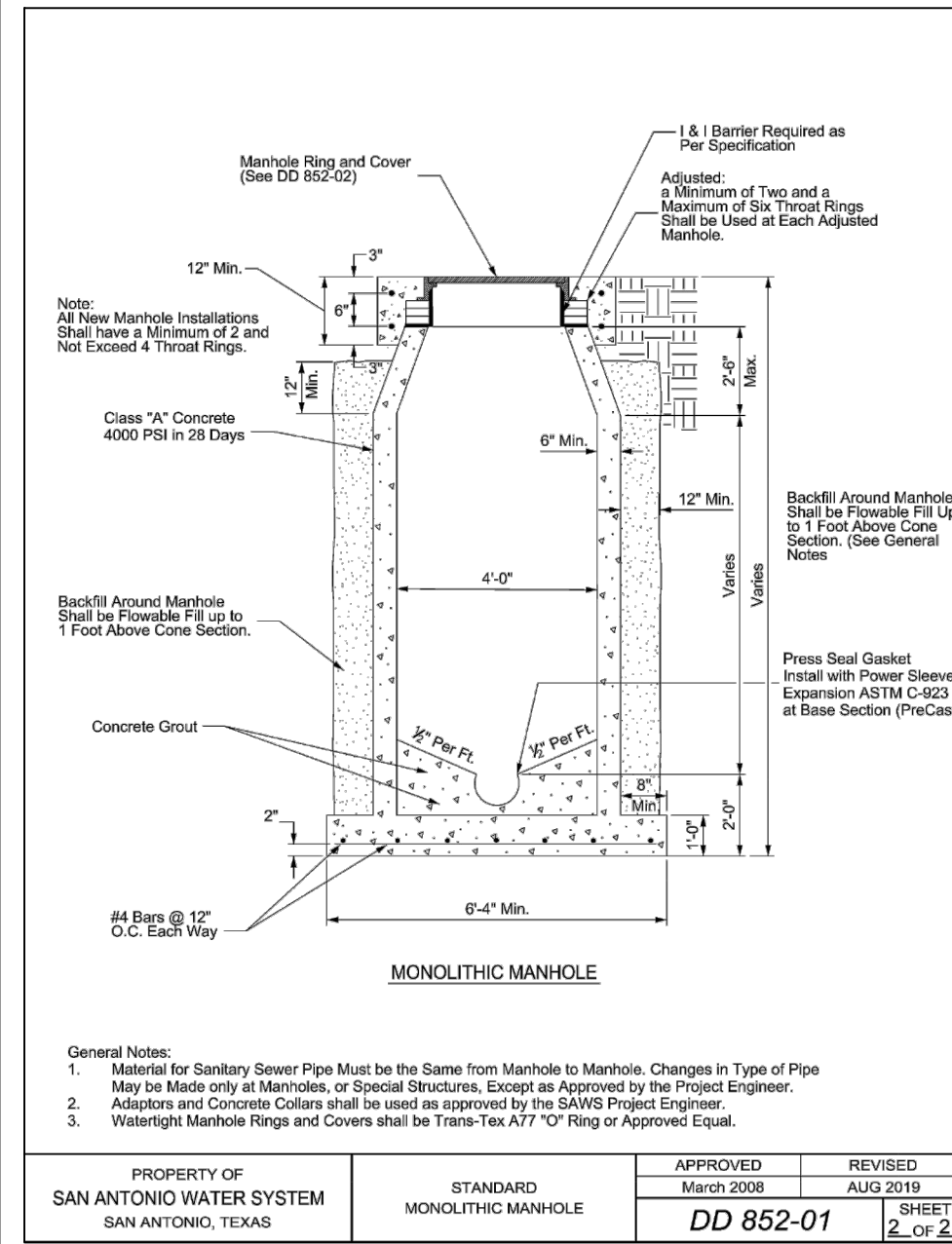
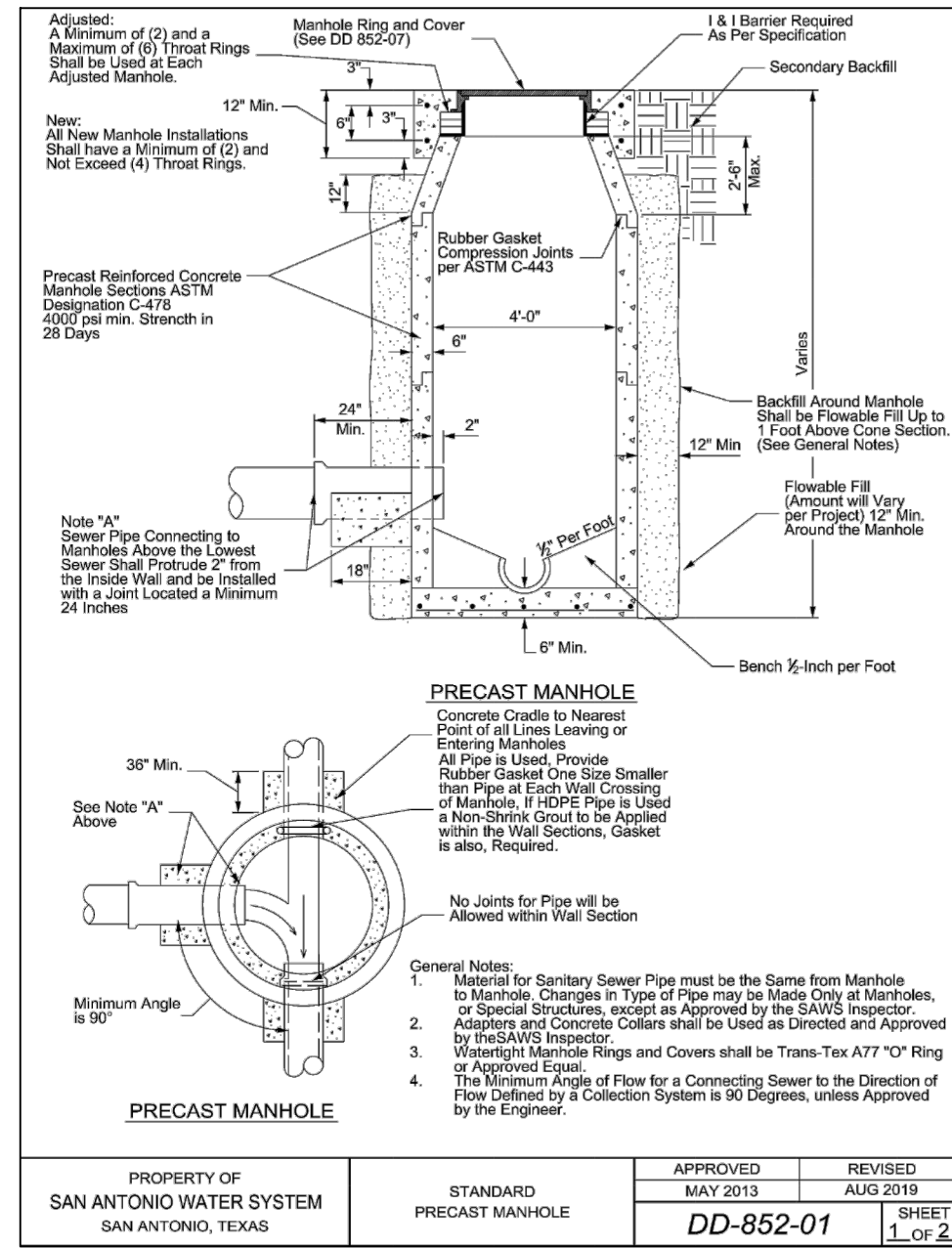
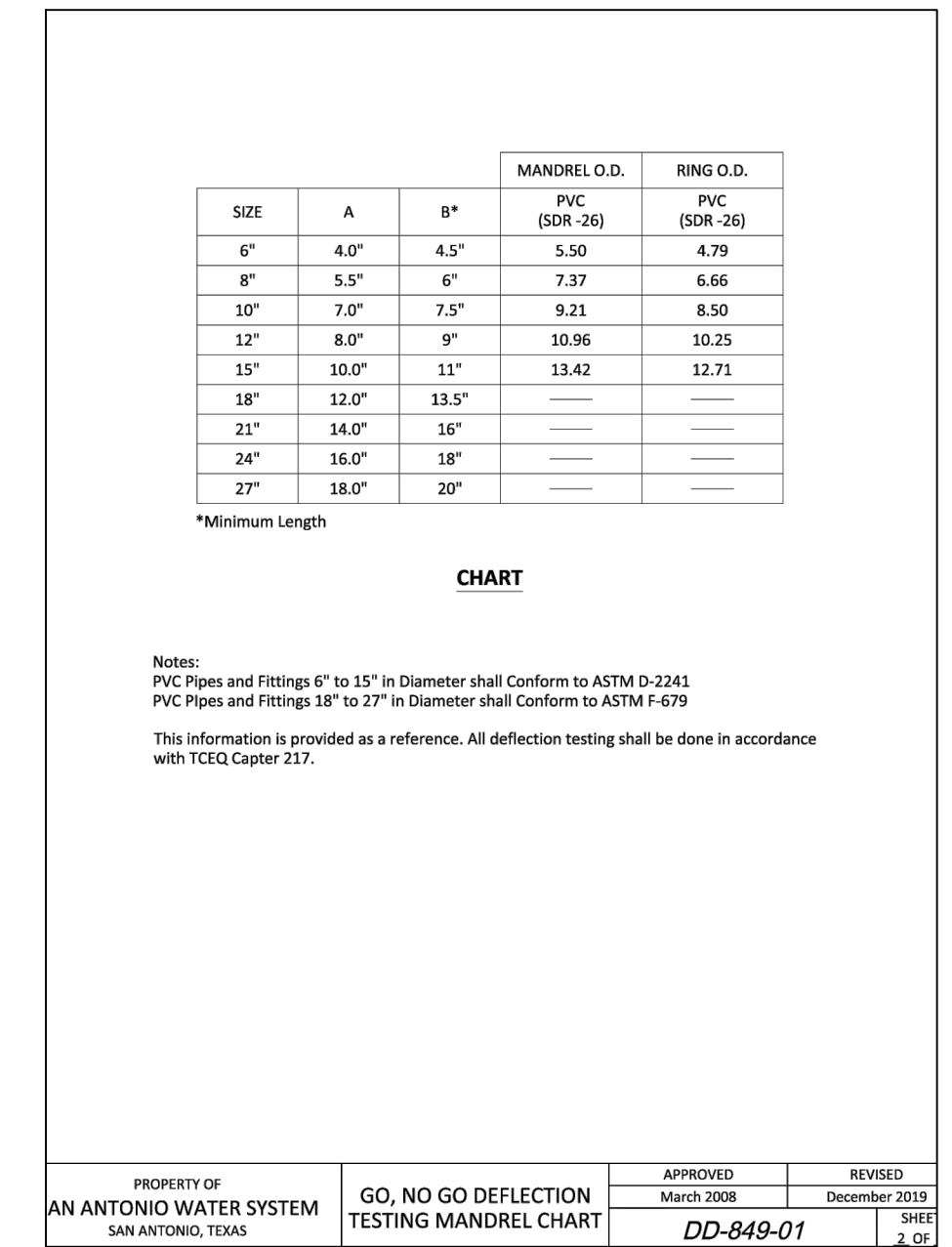
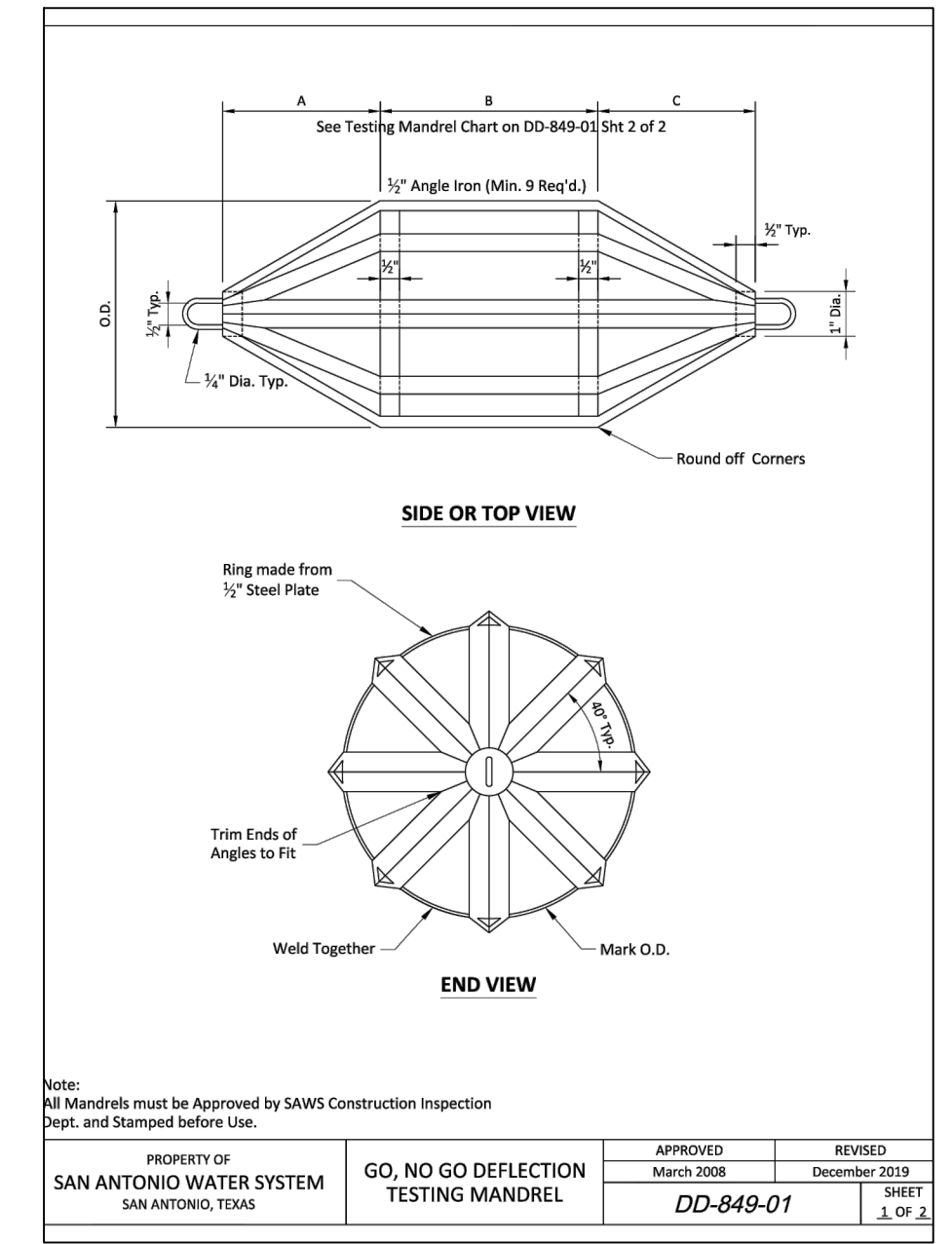
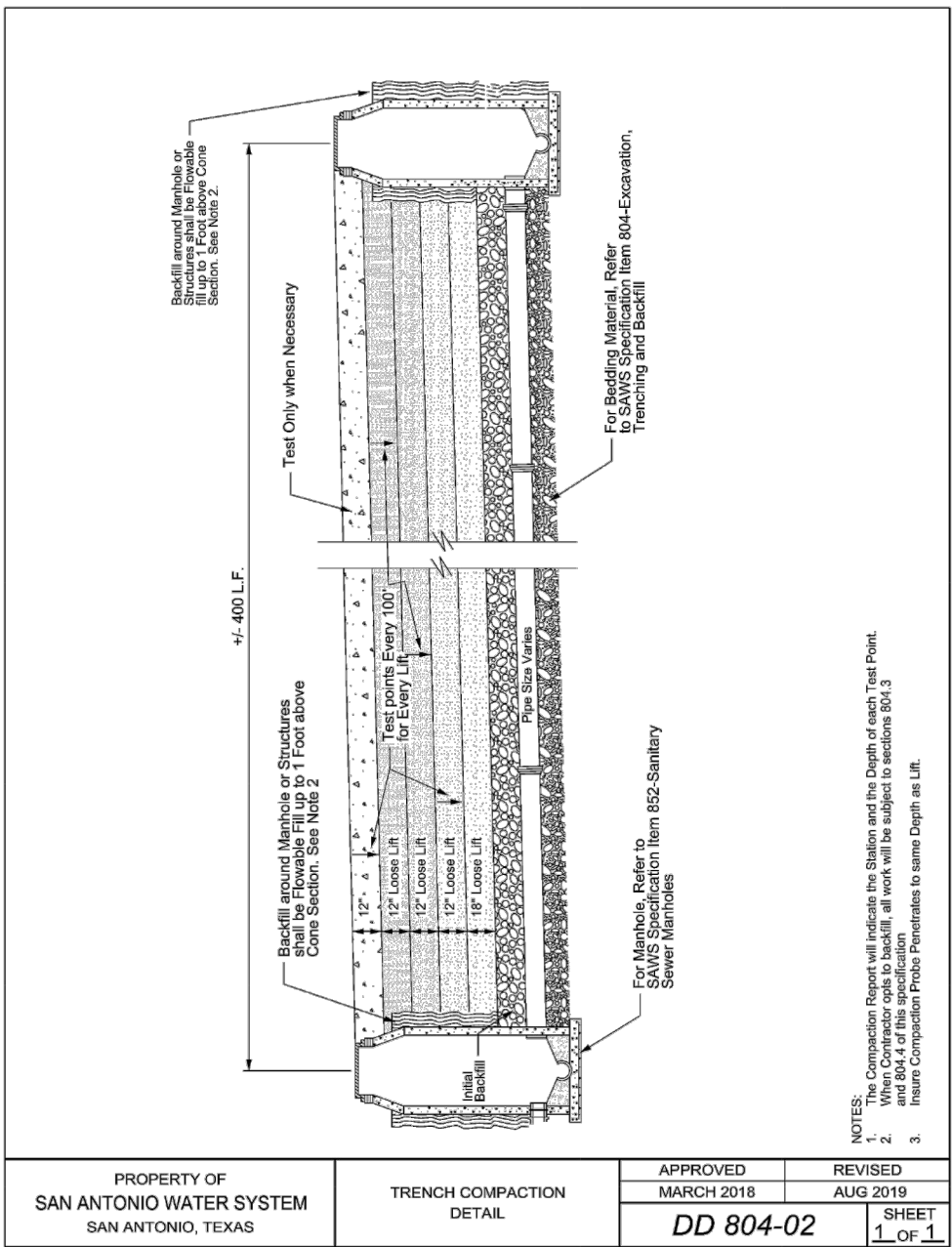
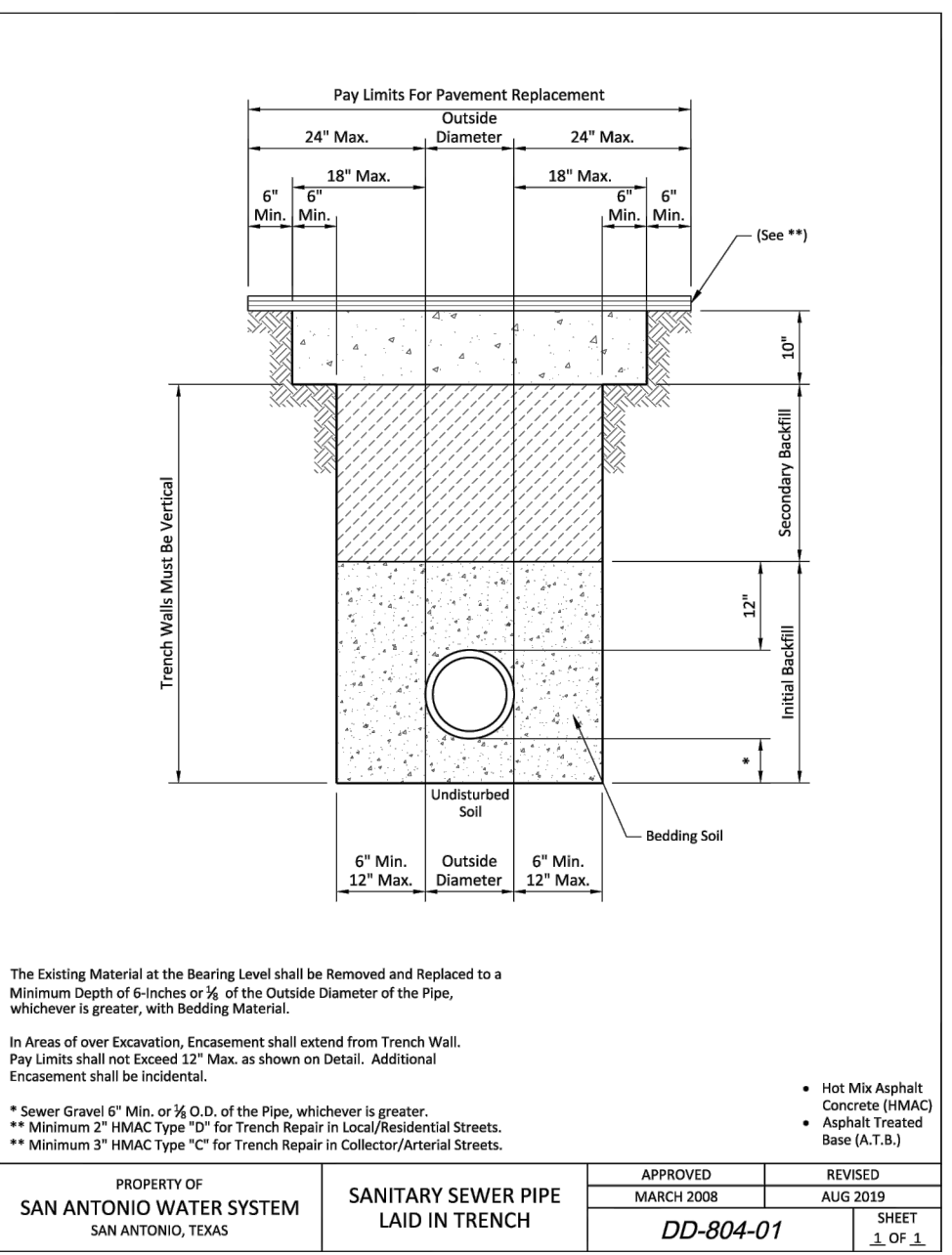
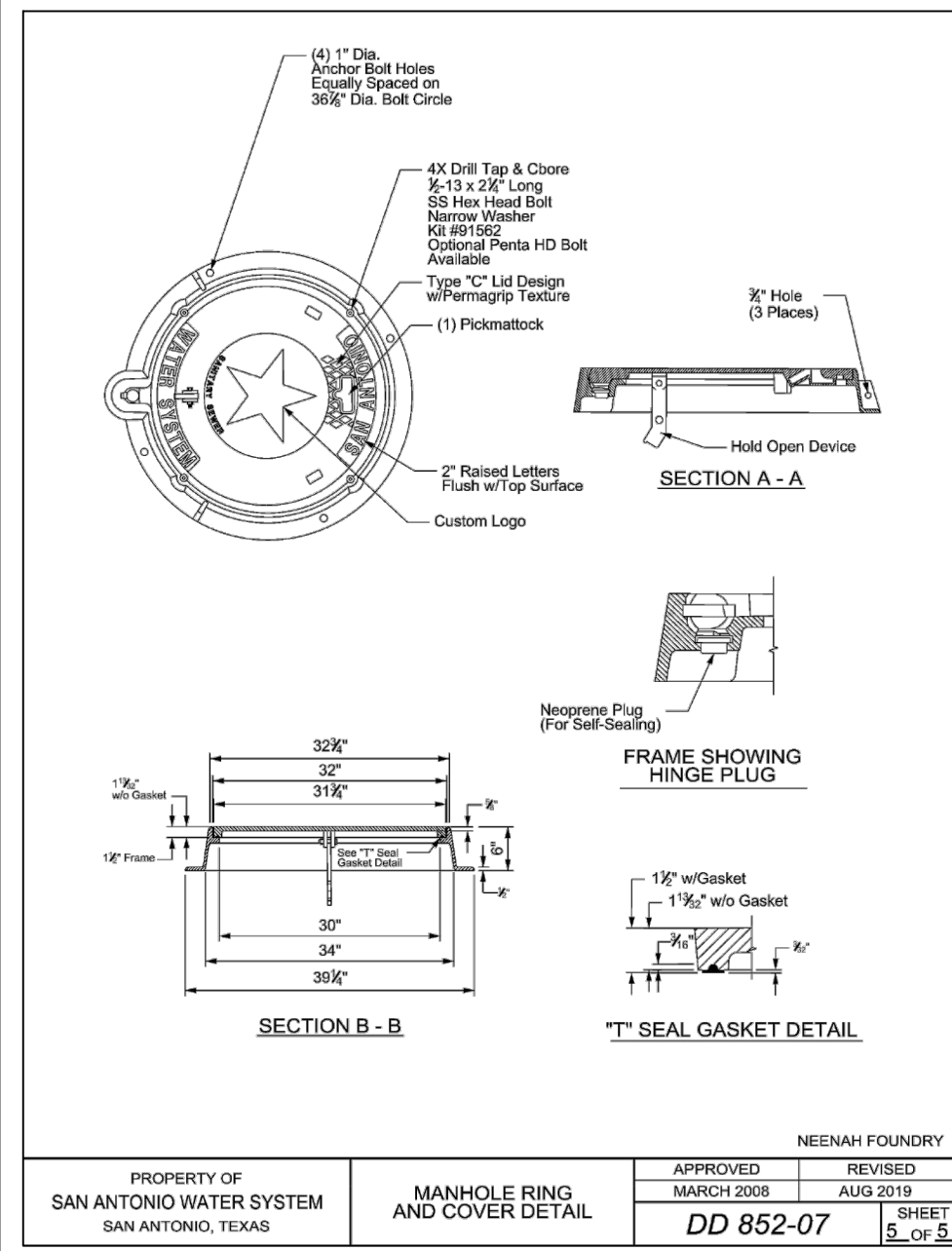
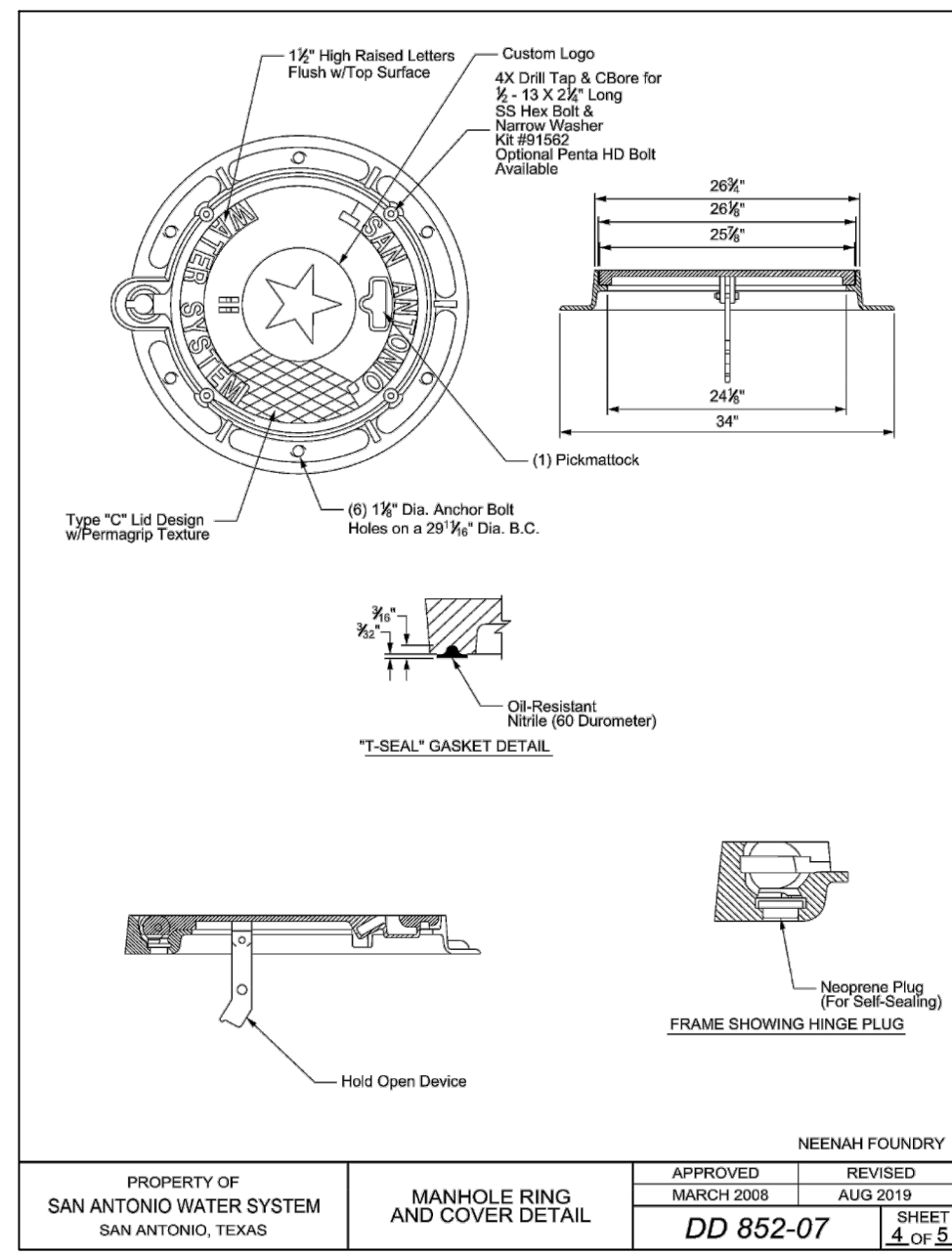
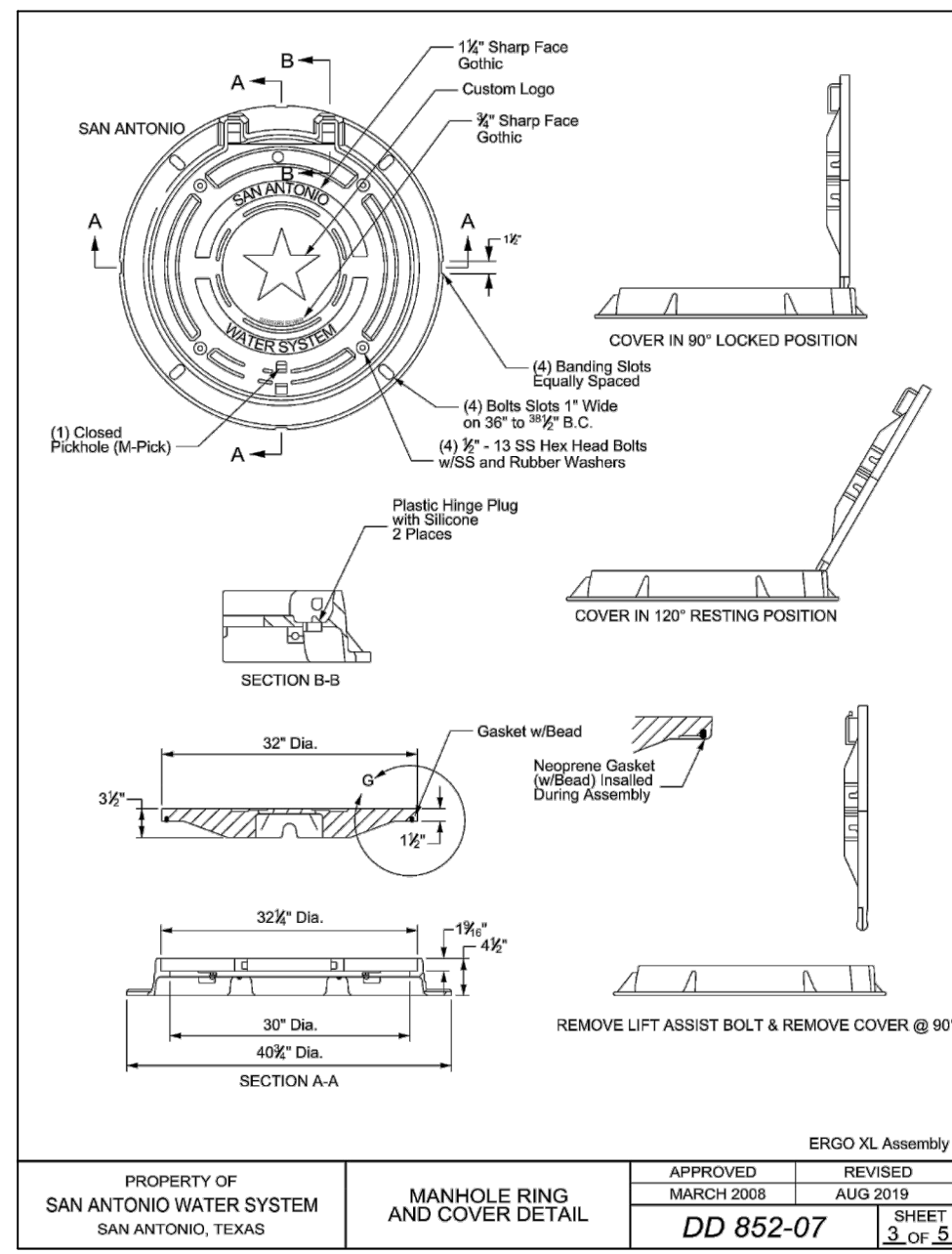
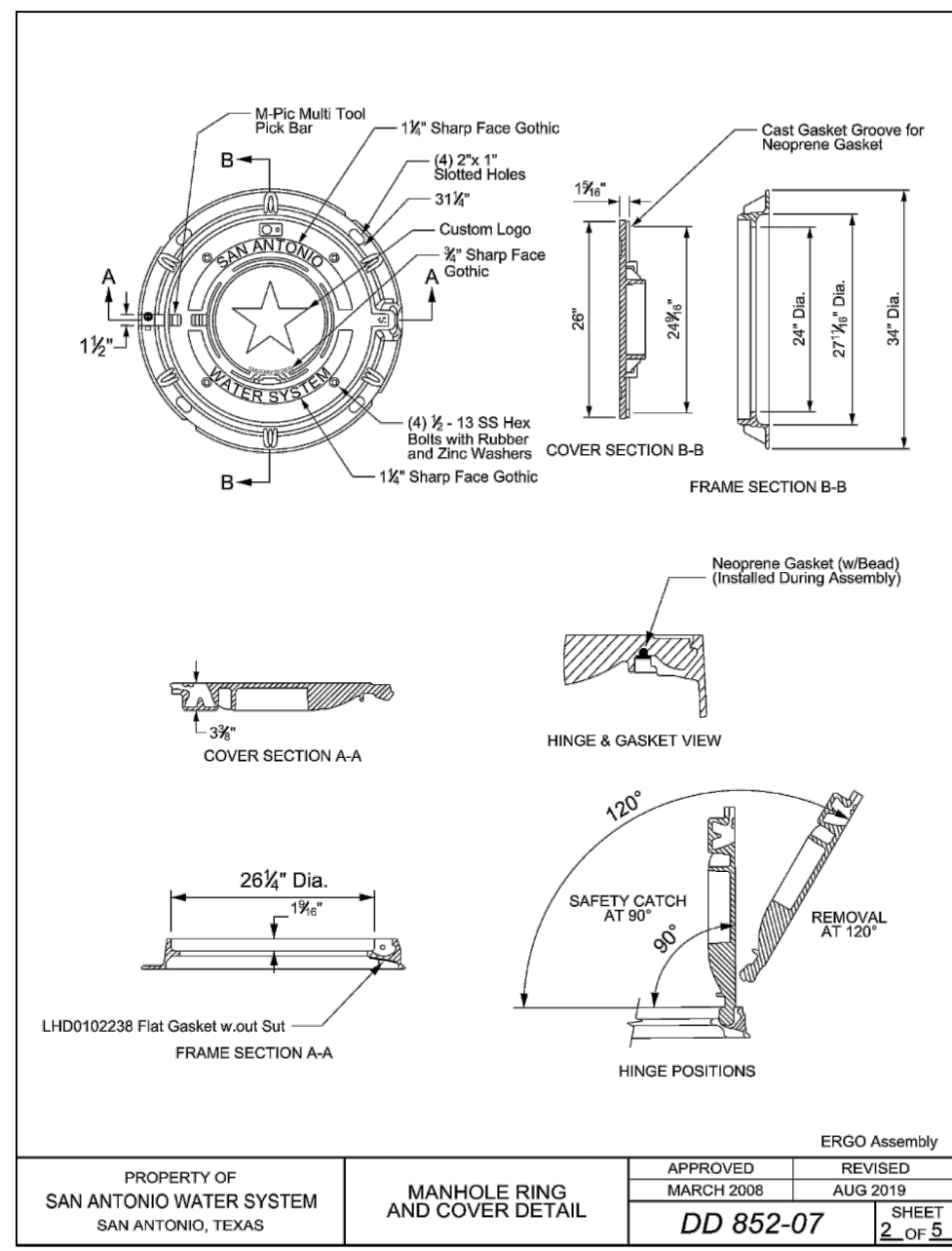
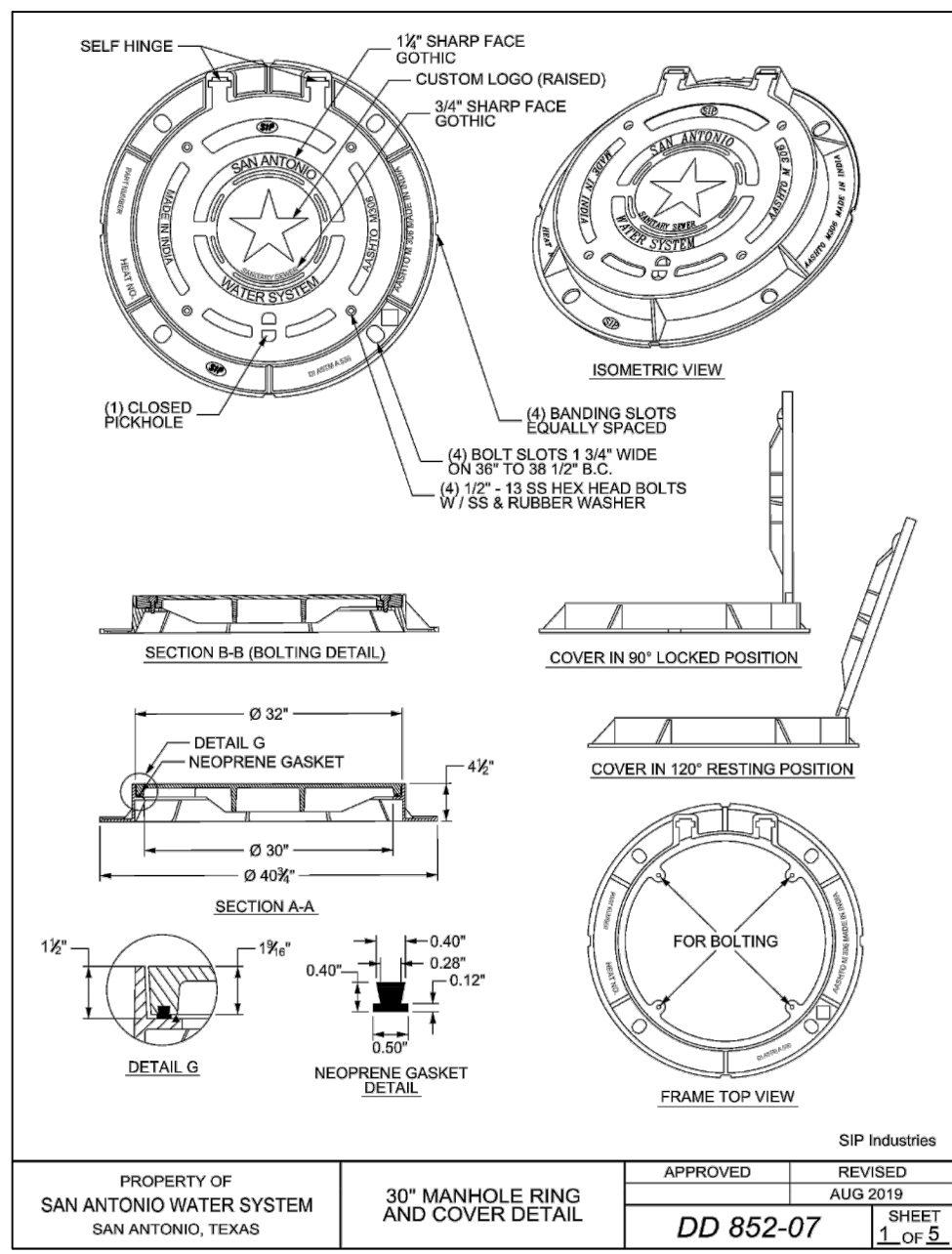
FORTUNA
SAN ANTONIO, TEXAS

SANITARY SEWER LINE A PLAN & PROFILE
(STA. 1+00.00 TO END)

PLAT NO. 25-11800510
JOB NO. 13255-01
DATE MARCH 2026
DESIGNER RG
CHECKED BL DRAWN AG
SHEET C5.01

Notes: Jan. 11, 2026, 11:01am, User: ID: dms010, File: P:\13245301\Design\CA\13245301.dwg

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DATE
6/10/2026

NO. 1

REVISION

UPDATED DEVELOPER NAME
ADDED DOGHOUSE DETAIL

STATE OF TEXAS
BROCKE LINDHOLM
117104
LICENSED PROFESSIONAL ENGINEER

Brocke Lindholm
6/11/26

PAPE-DAWSON
2000 NW LOOP 410 I SAN ANTONIO, TX 78213 | 210.375.9000
TEXAS ENGINEERING FIRM #470 1 TEXAS SURVEYING FIRM #1028800

FORTUNA
SAN ANTONIO, TEXAS
SANITARY SEWER DETAILS

PLAT NO. 25-11800510

JOB NO. 13255-01

DATE MARCH 2026

DESIGNER RG

CHECKED BL DRAWN AG

SHEET C5.10

Dates: Jun 11, 2026, 14:07am User ID: dmcrc03
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SAWS CONSTRUCTION NOTES
(LAST REVISED JANUARY 2022)

SAWS GENERAL SECTION

- ALL MATERIALS AND CONSTRUCTION PROCEDURES WITHIN THE SCOPE OF THIS CONTRACT SHALL BE APPROVED BY THE SAN ANTONIO WATER SYSTEM (SAWS) AND COMPLY WITH THE PLANS, SPECIFICATIONS, GENERAL CONDITIONS AND WITH THE FOLLOWING AS APPLICABLE:

A. CURRENT TEXAS COMMISSION ON ENVIRONMENTAL QUALITY (TCEQ) "DESIGN CRITERIA FOR DOMESTIC WASTEWATER SYSTEM", TEXAS ADMINISTRATIVE CODE (TAC) TITLE 30 PART 1 CHAPTER 217 AND "PUBLIC DRINKING WATER", TAC TITLE 30 PART 1 CHAPTER 290.

B. CURRENT TXDOT STANDARD SPECIFICATIONS FOR CONSTRUCTION OF HIGHWAYS, STREETS AND DRAINAGE."

C. CURRENT "SAN ANTONIO WATER SYSTEM STANDARD SPECIFICATIONS FOR WATER AND SANITARY SEWER CONSTRUCTION".

D. CURRENT CITY OF SAN ANTONIO "STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION".

E. CURRENT CITY OF SAN ANTONIO "UTILITY EXCAVATION CRITERIA MANUAL" (UECM).
- THE CONTRACTOR SHALL NOT PROCEED WITH ANY PIPE INSTALLATION WORK UNTIL THEY OBTAIN A COPY OF THE APPROVED COUNTER PERMIT OR GENERAL CONSTRUCTION PERMIT (GCP) FROM THE CONSULTANT AND HAS BEEN NOTIFIED BY SAWS CONSTRUCTION INSPECTION DIVISION TO PROCEED WITH THE WORK AND HAS ARRANGED A MEETING WITH THE INSPECTOR AND CONSULTANT FOR THE WORK REQUIREMENTS. WORK COMPLETED BY THE CONTRACTOR WITHOUT AN APPROVED COUNTER PERMIT, AND/OR A GCP WILL BE SUBJECT TO REMOVAL AND REPLACEMENT AT THE EXPENSE OF THE CONTRACTORS AND/OR THE DEVELOPER.
- THE CONTRACTOR SHALL OBTAIN THE SAWS STANDARD DETAILS FROM THE SAWS WEBSITE, [HTTP://WWW.SAWS.ORG/BUSINESS_CENTER/SPECS](http://www.saws.org/business_center/specs). UNLESS OTHERWISE NOTED WITHIN THE DESIGN PLANS.
- THE CONTRACTOR IS TO MAKE ARRANGEMENTS WITH THE SAWS CONSTRUCTION (210) 233-2973, ON NOTIFICATION PROCEDURES THAT WILL BE USED TO NOTIFY AFFECTED HOME RESIDENTS AND/OR PROPERTY OWNERS 48 HOURS PRIOR TO BEGINNING ANY WORK.
- LOCATION AND DEPTH OF EXISTING UTILITIES AND SERVICE LATERALS SHOWN ON THE PLANS ARE UNDERSTOOD TO BE APPROXIMATE. ACTUAL LOCATIONS AND DEPTHS MUST BE FIELD VERIFIED BY THE CONTRACTOR AT LEAST 1 WEEK PRIOR TO CONSTRUCTION. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO LOCATE UTILITY SERVICE LINES AS REQUIRED FOR CONSTRUCTION AND TO PROTECT THEM DURING CONSTRUCTION AT NO COST TO SAWS.
- THE CONTRACTOR SHALL VERIFY THE EXACT LOCATION OF UNDERGROUND UTILITIES AND DRAINAGE STRUCTURES AT LEAST 1-2 WEEKS PRIOR TO CONSTRUCTION WHETHER SHOWN ON PLANS OR NOT. PLEASE ALLOW UP TO 7 BUSINESS DAYS FOR LOCATES. REQUEST PIPE 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
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR RESTORING EXISTING FENCES, CURBS, STREETS, DRIVEWAYS, SIDEWALKS, LANDSCAPING AND STRUCTURES TO ITS ORIGINAL OR BETTER CONDITION IF DAMAGES ARE MADE AS A RESULT OF THE PROJECT'S CONSTRUCTION.
- ALL WORK IN TEXAS DEPARTMENT OF TRANSPORTATION (TXDOT) AND/OR BEXAR COUNTY RIGHT-OF-WAY SHALL BE DONE IN ACCORDANCE WITH RESPECTIVE CONSTRUCTION SPECIFICATIONS AND PERMIT REQUIREMENTS.
- THE CONTRACTOR SHALL COMPLY WITH CITY OF SAN ANTONIO OR OTHER GOVERNING MUNICIPALITY'S TREE ORDINANCES WHEN EXCAVATING NEAR TREES.
- THE CONTRACTOR SHALL NOT PLACE ANY WASTE MATERIALS IN THE 100-YEAR FLOOD PLAIN WITHOUT FIRST OBTAINING AN APPROVED FLOOD PLAIN PERMIT.
- HOLIDAY WORK: CONTRACTORS WILL NOT BE ALLOWED TO PERFORM SAWS WORK ON SAWS RECOGNIZED HOLIDAYS. REQUEST SHOULD BE SENT TO CONSTWORKREQ@SAWS.ORG.

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

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

SAWS SEWER NOTES

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

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

B. ATTEMPT TO ELIMINATE THE SOURCE OF THE SSO.

C. CONTAIN SEWAGE FROM THE SSO TO THE EXTENT OF PREVENTING A POSSIBLE CONTAMINATION OF WATERWAYS.

D. CLEAN UP SPILL SITE (RETURN CONTAINED SEWAGE TO THE COLLECTION SYSTEM IF POSSIBLE) AND PROPERLY DISPOSE OF CONTAMINATED SOIL/MATERIALS.

E. CLEAN THE AFFECTED SEWER MAINS AND REMOVE ANY DEBRIS.

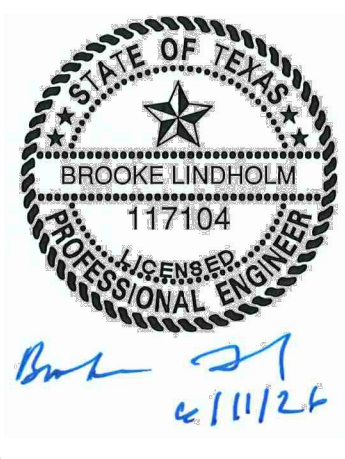
F. MEET ALL POST-SSO REQUIREMENTS AS PER THE EPA CONSENT DECREE, INCLUDING LINE CLEANING AND TELEVISIONING THE AFFECTED SEWER MAINS (AT SAWS DIRECTION) WITHIN 24 HOURS.
- SHOULD THE CONTRACTOR FAIL TO ADDRESS AN SSO IMMEDIATELY AND TO SAWS SATISFACTION, THEY WILL BE RESPONSIBLE FOR ALL COSTS INCURRED BY SAWS, INCLUDING ANY FINES FROM EPA, TCEQ AND/OR ANY OTHER FEDERAL, STATE OR LOCAL AGENCIES.
- NO SEPARATE MEASUREMENT OR PAYMENT SHALL BE MADE FOR THIS WORK. ALL WORK SHALL BE DONE ACCORDING TO GUIDELINES SET BY THE TCEQ AND SAWS.
- IF BYPASS PUMPING IS REQUIRED, THE CONTRACTOR SHALL PERFORM SUCH WORK IN ACCORDANCE WITH SAWS STANDARD SPECIFICATION FOR WATER AND SANITARY SEWER CONSTRUCTION, ITEM NO. 864, "BYPASS PUMPING".
- PRIOR TO TIE-INS, ANY SHUTDOWNS OF EXISTING FORCE MAINS OF ANY SIZE MUST BE COORDINATED WITH THE SAWS CONSTRUCTION INSPECTION DIVISION AT (210) 233-2973 AT LEAST ONE WEEK IN ADVANCE OF THE SHUTDOWN. THE CONTRACTOR MUST ALSO PROVIDE A SEQUENCE OF WORK AS RELATED TO THE TIE-INS; THIS IS AT NO ADDITIONAL COST TO SAWS OR THE PROJECT AND IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO SEQUENCE THE WORK ACCORDINGLY.
- SEWER PIPE WHERE WATER LINE CROSSES SHALL BE 160 PSI AND MEET THE REQUIREMENTS OF ASTM D2241, TAC 217.53 AND TCEQ 290.44C(4)(b). CONTRACTOR SHALL CENTER A 20" JOINT OF 160 PSI PRESSURE RATED PVC AT THE PROPOSED WATER CROSSING.
- ELEVATIONS POSTED FOR TOP OF MANHOLES ARE FOR REFERENCE ONLY: IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO MAKE ALLOWANCES AND ADJUSTMENTS FOR TOP OF MANHOLES TO MATCH THE FINISHED GRADE OF THE PROJECT'S IMPROVEMENTS. (NSPI)
- SPILLS, OVERFLOWS, OR DISCHARGES OF WASTEWATER: ALL SPILLS, OVERFLOWS, OR DISCHARGES OF WASTEWATER, RECYCLED WATER, PETROLEUM PRODUCTS, OR CHEMICALS MUST BE REPORTED IMMEDIATELY TO THE SAWS INSPECTOR ASSIGNED TO THE COUNTER PERMIT OR GENERAL CONSTRUCTION PERMIT (GCP). THIS REQUIREMENT APPLIES TO EVERY SPILL, OVERFLOW, OR DISCHARGE REGARDLESS OF SIZE.
- MANHOLE AND ALL PIPE TESTING (INCLUDING THE TV INSPECTION) MUST BE PERFORMED AND PASSED PRIOR TO FINAL FIELD ACCEPTANCE BY SAWS CONSTRUCTION INSPECTION DIVISION, AS PER THE SAWS SPECIFICATIONS FOR WATER AND SANITARY SEWER CONSTRUCTION.
- ALL PVC PIPE OVER 14 FEET OF COVER SHALL BE EXTRA STRENGTH WITH MINIMUM PIPE STIFFNESS OF 115 PSI.

PROJECT SEWER NOTES

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

SEWER (MIDDLE-CENTRAL SEWERSHED-DOS RIOS/LEON CREEK)

DEVELOPER'S NAME: <u>HAND-UP HOMES, LLC</u>			
ADDRESS: <u>311 PROBANDT STREET</u>			
CITY: <u>SAN ANTONIO</u>	STATE: <u>TEXAS</u>	ZIP: <u>78204</u>	
PHONE# <u>(210) 223-5203</u>			
SAWS BLOCK MAP# <u>134582</u> TOTAL EDU'S <u>28</u> TOTAL ACREAGE <u>4.653</u>			
TOTAL LINEAR FOOTAGE OF PIPE: <u>8" ~ 795 LF</u> PLAT NO. <u>25-11800510</u>			
NUMBER OF LOTS <u>28</u>		SAWS JOB NO. <u>26-1535</u>	

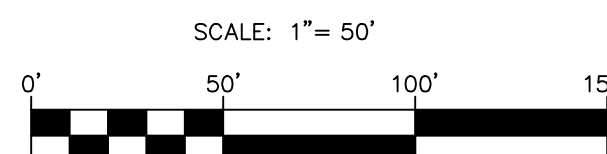
DATE									
NO.	REVISION								
									

PAPE – DAWSON
2000 NW LOOP #110 | SAN ANTONIO, TX 78213 | 210.375.9000
TEXAS ENGINEERING FIRM #470 | TEXAS SURVEYING FIRM #10028800

FORTUNA
SAN ANTONIO, TEXAS
SANITARY SEWER NOTES

PLAT NO.	<u>25-11800510</u>
JOB NO.	<u>13255-01</u>
DATE	<u>MARCH 2026</u>
DESIGNER	<u>RG</u>
CHECKED	<u>BL</u> DRAWN <u>AG</u>
SHEET	C5.11

3 10' GAS, ELECTRIC, TELEPHONE
AND CABLE TV EASEMENT



PROJECT LIMITS

EXISTING WATER

EXISTING SEWER

PROPOSED SEWER

PROPOSED WATER

PROPOSED WYE & LATERAL

SINGLE WATER SERVICE

DUAL WATER SERVICE

PROPOSED STREET LIGHTS

EXISTING STREET LIGHTS

GAS, ELECTRIC, TELEPHONE &
CABLE TELEVISION EASEMENT

W

SS

SS

FIRE HYDRANT

W

SS

W

W

W

SL

SL

GETCTV

1 14' GAS, ELECTRIC, TELEPHONE
AND CABLE TV EASEMENT

3 10' GAS, ELECTRIC, TELEPHONE
AND CABLE TV EASEMENT

1. CONTRACTOR SHALL INSTALL PERMANENT MARKERS IN PROPOSED CURBS WHERE CONDUITS CROSS THE ROADWAY (BOTH SIDES).
2. CONDUITS SHALL BE PVC WITH MINIMUM BURIAL OF 36 INCHES BELOW PROPOSED FINISHED GRADE. SCHEDULE 80 TO BE USED FOR CPS CONDUITS. ALL OTHER CONDUITS ARE SCHEDULE 40.
3. ALL CONDUITS SHALL BE EXTENDED BEHIND CURBS OR PROPOSED SIDEWALKS A MINIMUM OF 3 FEET AND CAPPED FOR FUTURE USE.
4. ALL CONDUIT SLEEVES TO BE USED FOR ELECTRIC, GAS, 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 OF INSTALLATION, PLACEMENT 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 INFORMATION AND THE ANTICIPATED INSTALLATION SITES WITHIN THE PROJECT AREA AND WORK AREA TO IDENTIFY AND REPORT TO THE OWNER ANY PRELIMINARY 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 EMPLOYMENT AND TRAINING OF THE CONTRACTOR FOR TRENCH EXCAVATIONS. SPECIFICALLY, CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR SAFETY/EQUIPMENT CONSULTANT SHALL IMPLEMENT A TRENCH SAFETY PROGRAM IN ACCORDANCE WITH OSHA STANDARDS AND OTHER APPLICABLE REGULATORY 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 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 AND SHALL BE RESPONSIBLE FOR THE UTILITY SHOWN ON THIS CONTRACT. 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.

[illegible]

Buck Ji
5/13/26

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TEXAS ENGINEERING FIRM #470 | TEXAS SURVEYING FIRM #10028800

FORTUNA
SAN ANTONIO, TEXAS
OVERALL UTILITY PLAN

PLAT NO. 25-11800510
JOB NO. 13255-01
DATE MARCH 2026
DESIGNER RG
CHECKED BL DRAWN AG
SHEET **C6.00**



-
- Map of the site location in San Antonio, Texas. The map shows the intersection of Fortuna St and W Commerce St. A shaded area labeled 'SITE' is located on the east side of W Commerce St, between Fortuna St and NW 26TH ST. The map also shows surrounding streets like NW 26TH ST and NW 27TH ST, and the proximity to Bexar County and the City of San Antonio.

A circular professional engineer seal for the State of Texas. The outer ring contains the text "STATE OF TEXAS" at the top and "PROFESSIONAL ENGINEER" at the bottom, separated by two stars on each side. Inside the ring is a five-pointed star. Below the star, the text "BROOKE LINDHOLM" and "117104" are printed. At the bottom of the seal, the words "LICENSED" and "ENGINEER" are printed, with "LICENSED" above "ENGINEER".

Brake 71
3/24/14

PROJECT LIMITS

100 YR FLOODPLAIN

EXISTING CONTOUR

976

PROPOSED CONTOUR

970

FLOW ARROW (EXISTING)

FLOW ARROW (PROPOSED)

MINIMUM FINISHED FLOOR ELEVATION

FF = XXXX.XX

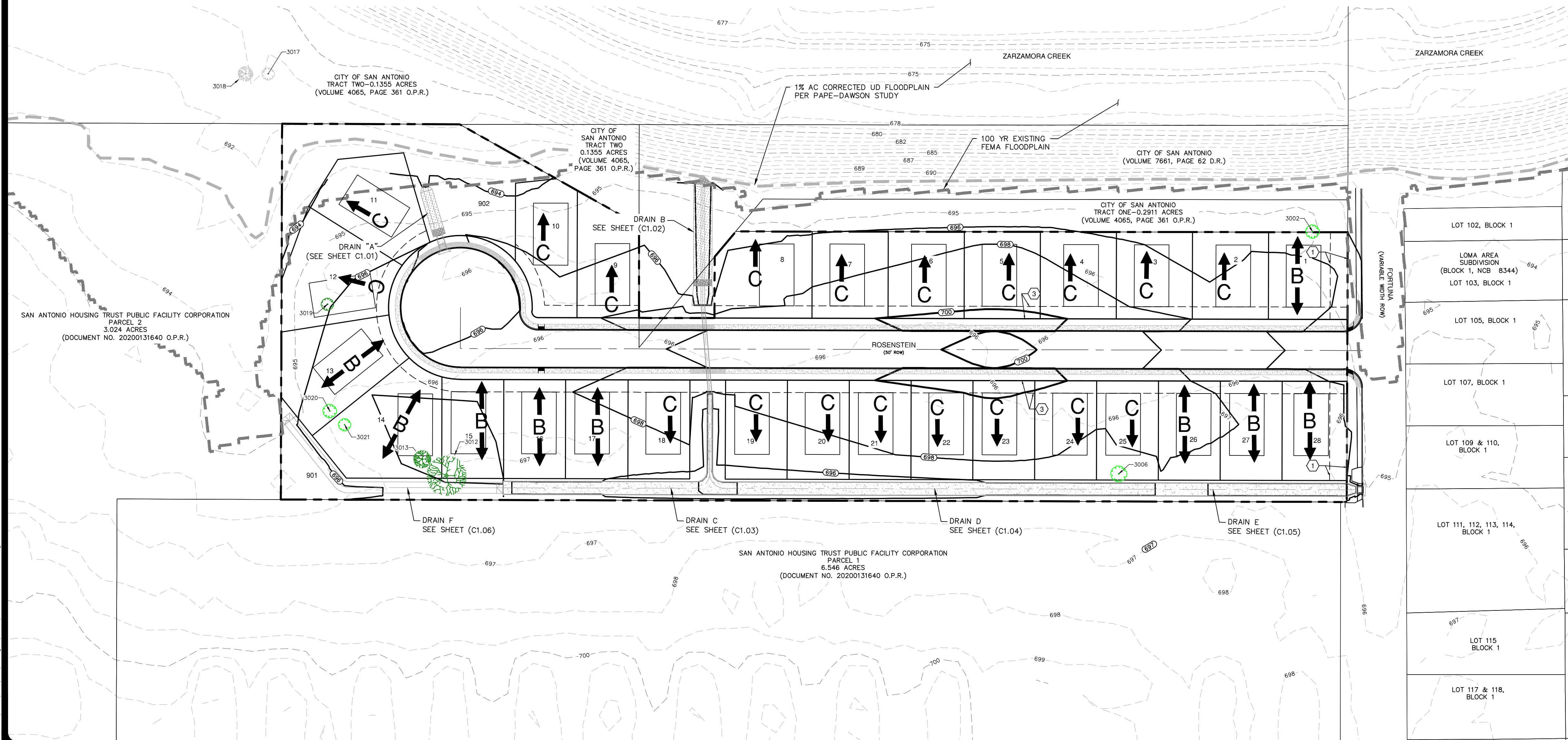
TREES TO REMAIN

1. ALL MATERIALS AND CONSTRUCTION PROCEDURES WITHIN THIS SCOPE OF WORK WHERE NOT SPECIFICALLY COVERED IN THE SPECIFICATIONS OR NOT SPECIFICALLY COVERED IN THE CITY OF CHICAGO ORDINANCES, ORDINANCES 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 MUCH 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 DIMENSIONS OR GRADES NECESSARY FOR CONSTRUCTION OF THE 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., TO A DEPTH OF 12" BELOW THE FINISHED GRADE FOR EMPAVEMENTS 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 OFF-ROAD OR INTO EXISTING STORM DRAIN SYSTEMS. (SEE SWPPP PLANS & TPDES BOOK).
11. THE CONTRACTOR SHALL OBTAIN GRADES SHOWN WITHIN $\pm 1/2$ " ONE-TENTH (0.10) FOOT.
12. IN PROPOSED PAVING AREAS, STREET DESIGN PLANS SHALL CONTROL. EXISTING GRADES 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 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.
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 LOCATING AND IDENTIFYING ALL EXISTING UTILITIES 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 THE 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 BUILDINGS AND DRIVEWAYS. THE CONTRACTOR SHOULD TAKE PRECAUTIONS NOT TO ALLOW ANY PONDING OF WATER.
18. FOR FILL PLACEMENT ON HILL SIDES OR STEEP SLOPE AREAS, THE CONTRACTOR SHALL REFERENCE THE PROJECT SPECIFICATIONS AND GEOTECHNICAL REPORT FOR SPECIAL INSTRUCTIONS REGARDING BENCHING.
19. NO WORK SHALL BE PERFORMED IN PUBLIC RIGHT-OF-WAY WITHOUT A PERMIT.

PAPE-DAWSON
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TEXAS ENGINEERING FIRM #470 | TEXAS SURVEYING FIRM #10028800

FORTUNA
SAN ANTONIO, TEXAS

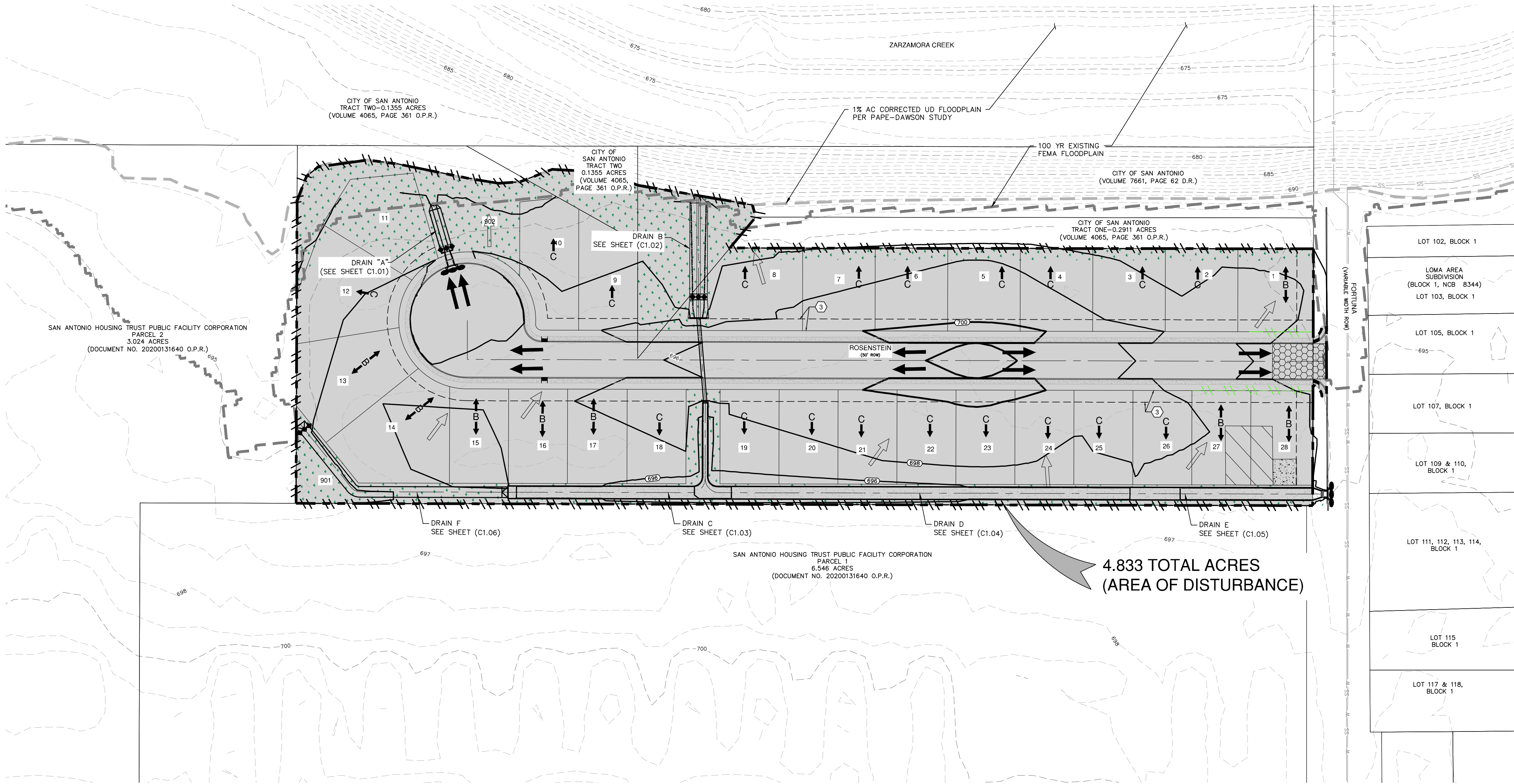
PLAT NO. 25-11800510
JOB NO. 13255-01
DATE MARCH 2026
DESIGNER RG
CHECKED BL DRAWN AC
SHEET C7.00



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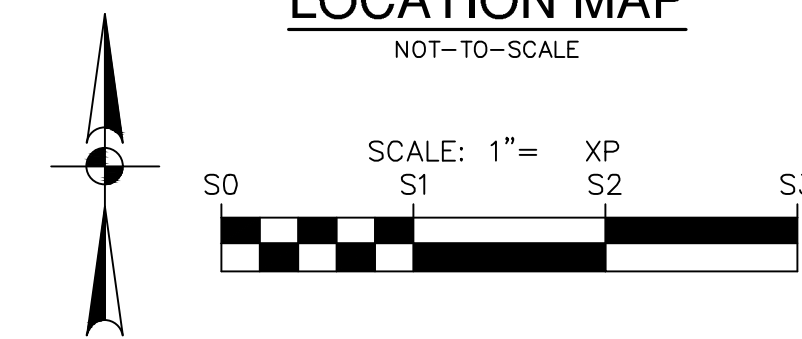
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SWP3 MODIFICATIONS		
DATE	SIGNATURE	DESCRIPTION



KEYED NOTES:

- ① 14" GAS, ELECTRIC, TELEPHONE AND CABLE TV EASEMENT
② 10" GAS, ELECTRIC, TELEPHONE AND CABLE TV EASEMENT



SWPPP LEGEND

- PROJECT LIMITS
EXISTING CONTOUR
PROPOSED CONTOUR
FLOW ARROW (EXISTING)
FLOW ARROW (PROPOSED)
SILT FENCE
PHASE II SILT FENCE
ROCK BERM
GRAVEL FILTER BAGS
GRATE INLET PROTECTION
SEDIMENT CONTROL ROLLS
LIMITS OF DISTURBED AREA
STABILIZED CONSTRUCTION ENTRANCE/EXIT (FIELD LOCATE)
CONSTRUCTION EQUIPMENT, VEHICLE & MATERIALS STORAGE AREA (FIELD LOCATE)
CONCRETE TRUCK WASH-OUT PIT (FIELD LOCATE)
REVEGETATION

GENERAL NOTES

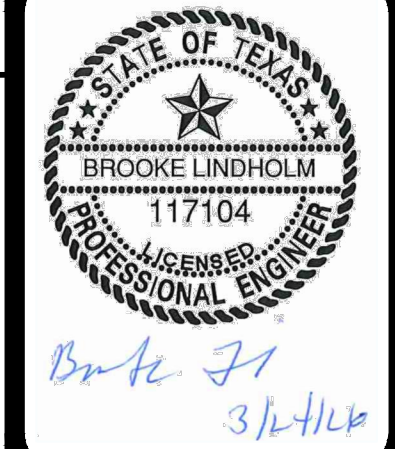
1. DO NOT DISTURB VEGETATED AREAS (TREES, GRASS, WEEDS, BRUSH, ETC.) ANY MORE THAN NECESSARY FOR CONSTRUCTION.
2. CONSTRUCTION ENTRANCE/EXIT LOCATION, CONCRETE WASH-OUT PIT, AND CONSTRUCTION EQUIPMENT AND MATERIAL STORAGE YARD TO BE DETERMINED IN THE FIELD.
3. STORM WATER POLLUTION PREVENTION CONTROLS MAY NEED TO BE MODIFIED IN THE FIELD TO ACCOMPLISH THE DESIRED EFFECT. ALL MODIFICATIONS ARE TO BE NOTED ON THIS EXHIBIT AND SIGNED AND DATED BY THE RESPONSIBLE PARTY.
4. RESTRICT ENTRY/EXIT TO THE PROJECT SITE TO DESIGNATED LOCATIONS BY USE OF ADEQUATE FENCING, IF NECESSARY.
5. ALL STORM WATER POLLUTION PREVENTION CONTROLS ARE TO BE MAINTAINED AND IN WORKING CONDITIONS AT ALL TIMES.
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, EASEMENT AREAS, EMBANKMENT SLOPES, ETC. WILL BE STABILIZED PER APPLICABLE PROJECT SPECIFICATIONS.
9. BEST MANAGEMENT PRACTICES MAY BE INSTALLED IN STAGES TO CONCOIDE WITH THE DISTURBANCE OF UPGRADE AREAS.
10. BEST MANAGEMENT PRACTICES MAY BE REMOVED IN STAGES ONCE THE WATERSHED FOR THAT PORTION CONTROLLED BY THE BEST MANAGEMENT PRACTICES HAS BEEN STABILIZED IN ACCORDANCE WITH TPDES REQUIREMENTS.
11. UPON COMPLETION OF THE PROJECT, INCLUDING SITE STABILIZATION, AND BEFORE FINAL PAYMENT IS ISSUED, CONTRACTOR SHALL REMOVE ALL SEDIMENT AND EROSION CONTROL MEASURES, PAYING SPECIAL ATTENTION TO ROCK BERMS IN DRAINAGE FEATURES.
12. WHERE VEGETATED FILTER STRIPS ARE INDICATED, CONTRACTOR SHALL VERIFY THAT SUFFICIENT VEGETATION EXISTS, OTHERWISE CONTRACTOR SHALL PLACE SILT FENCING IN LIEU OF VEGETATED FILTER STRIP.
13. SHADED AREA [] DENOTES LIMITS OF DISTURBED AREAS. OTHER AREAS WITHIN THE PROJECT LIMITS, WITH THE EXCEPTION OF A CONSTRUCTION EQUIPMENT AND MATERIAL STORAGE YARD, ARE NOT A PART OF THIS TPDES STORM WATER POLLUTION PREVENTION PLAN (SWP3) AND WILL NOT BE DISTURBED BY CIVIL CONSTRUCTION ACTIVITIES. HOUSE CONSTRUCTION ACTIVITIES WILL REQUIRE A SEPARATE STORM WATER POLLUTION PREVENTION PLAN.
14. ANY SLURRY AND CUTTINGS GENERATED FROM SAWCUTTING OPERATIONS SHALL NOT BE ALLOWED TO DRAIN TO THE STORM DRAIN SYSTEM, SWALE, STREAM OR OTHER WATER BODY AND SHALL NOT BE ALLOWED TO REMAIN ON THE PAVEMENT TO DRY OUT.
15. CPS ENERGY WILL FUNCTION AS A SECONDARY OPERATOR ON THIS PROJECT AND WILL BE INSTALLING ELECTRIC UTILITIES FOR ON-SITE CONSTRUCTION AND OFF-SITE FEED TO THE PROJECT.
16. A CITY OF SAN ANTONIO ROW PERMIT MUST BE OBTAINED BEFORE WORKING IN ANY CITY OF SAN ANTONIO ROW.

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 2

NO.	REVISION	DATE



PAPE-DAWSON
2000 NW LOOP 410 I SAN ANTONIO, TX 78213 I 210.375.9000
TEXAS ENGINEERING FIRM #470 I TEXAS SURVEYING FIRM #1028800

FORTUNA
SAN ANTONIO, TEXAS
STORM WATER POLLUTION PREVENTION PLAN

PLAT NO.	25-11800510
JOB NO.	13255-01
DATE	MARCH 2026
DESIGNER	RG
CHECKED	BL
DRAWN	AG
SHEET	C8.00

