SPANISH TRAILS-UNIT 2 EAST

SAN ANTONIO, TEXAS PHASE 2A CIVIL CONSTRUCTION PLANS



Sheet List Table **Sheet Title Sheet Description** Sheet No. COVER SHEET (UNIT-2A) MASTER DRAINAGE PLAN C2.00 ISLAS RD PLAN AND PROFILE PLAN AND PROFILE (STA. 10+00.00 TO 13+41.00) BARRIADA STREET C2.01 PLAN AND PROFILE LA BARISTA DRIVE C2.03 **ALMA DRIVE** WIDENING AND SIDEWALK IMPROVEMENTS C2.06 STREET DETAILS C2.10 OVERALL SIGNAGE PLAN C3.00 SIGNAGE DETAILS SHEET 1 OF 2 SIGNAGE DETAILS SHEET 2 OF 2 C4.00A OVERALL SANITARY SEWER PLAN **OVERALL SANITARY SEWER PLAN** C4.01A SHEET 2 OF 2 PLAN AND PROFILE (STA. 10+00.00 TO 20+50.00) SANITARY SEWER LINE E C4.02 PLAN AND PROFILE (STA. 20+50.00 TO END) SANITARY SEWER LINE E C4.03 SANITARY SEWER LINE F PLAN AND PROFILE C4.04 SANITARY SEWER NOTES C4.10 SANITARY SEWER DETAILS C4.20 OVERALL WATER DISTRIBUTION PLAN C5.00A C5.10 WATER DISTRIBUTION NOTES WATER DISTRIBUTION DETAILS C5.20 **OVERALL UTILITY PLAN** C6.00 **GRADING PLAN** C7.00 STORMWATER POLLUTION PREVENTION PLAN C8.00 STORMWATER POLLUTION PREVENTION DETAILS C8.10

PREPARED FOR:

K.B. HOME LONE STAR, INC. 4800 FREDERICKSBURG RD SAN ANTONIO, TEXAS 78229

MAY 2025



WASTEWATER COLLECTION LOWER WASTEWATER TREATMENT DOS RIOS/LEON CREEK

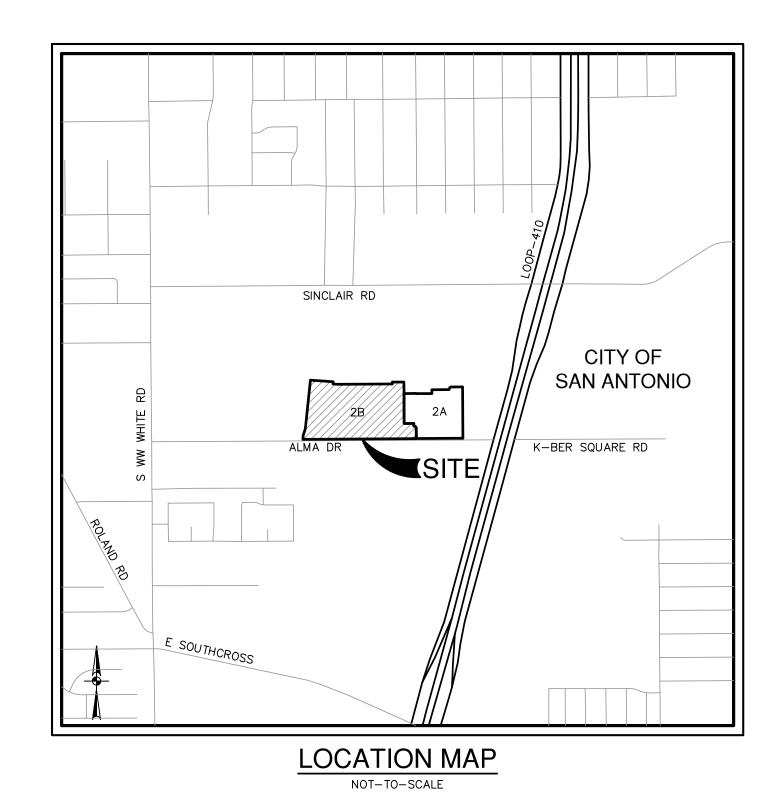
DEVELOPER'S NAME: K.B. HOME LONE STAR, INC.
ADDRESS: 4800 FREDERICKSBURG RD
CITY: SAN ANTONIO STATE: TEXAS ZIP: 78229
PHONE# (210) 301-2886 FAX# (210) 366-2378
SAWS BLOCK MAP# 190562 TOTAL EDU'S 39 TOTAL ACREAGE 20.67
TOTAL LINEAR FOOTAGE OF PIPE: (852- 8"SS) PLAT NO. 22-11800121
NUMBER OF LOTS 39 SAWS JOB NO. 25-1534

WATER (SAWS PRESSURE ZONE 828)

				TAR, INC	,	
SAN	ANTONIO	s	TATE:	TEXAS	ZIP:	78229
NE# <u>(2</u>	<u>10) 301–288</u>	36		FAX#	(210) 366	5-2378
S BLOCK	K MAP# <u>190</u>	<u>562</u> TOT	AL EDU'	s <u>(39</u>)	TOTAL AC	REAGE <u>20.6</u> 7
	\sim		<u> </u>			v *
BER OF	LOTS <u>39</u>		_ SAWS	JOB NO.	<u> </u>	}
	RESS: : SAN NE# <u>(2</u> S BLOCK	RESS: <u>4800 FRED</u> : <u>SAN ANTONIO</u> NE# <u>(210) 301–288</u> S BLOCK MAP# 190 AL LINEAR FOOTAGE	RESS: <u>4800 FREDERICKSBU</u> : <u>SAN ANTONIO</u> S NE# <u>(210) 301-2886</u> S BLOCK MAP# 190562 TOT AL LINEAR FOOTAGE OF PIPE:	RESS: <u>4800 FREDERICKSBURG RD</u> : <u>SAN ANTONIO</u> STATE: NE# <u>(210) 301–2886</u> S BLOCK MAP# <u>190562</u> TOTAL EDU' AL LINEAR FOOTAGE OF PIPE: <u>(12</u>	RESS: <u>4800 FREDERICKSBURG RD</u> : <u>SAN ANTONIO</u> STATE: <u>TEXAS</u> NE# <u>(210) 301–2886</u> FAX# S BLOCK MAP# <u>190562</u> TOTAL EDU'S <u>39</u> AL LINEAR FOOTAGE OF PIPE: <u>(1244 (8"W</u>	ELOPER'S NAME: K.B. HOME LONE STAR, INC. RESS: 4800 FREDERICKSBURG RD : SAN ANTONIO STATE: TEXAS ZIP: NE# (210) 301-2886 FAX# (210) 366 S BLOCK MAP# 190562 TOTAL EDU'S 39 TOTAL ACAL LINEAR FOOTAGE OF PIPE: (1244 (8"W) PLAT NOTAGE OF LOTS 39) SAWS JOB NO. (25-1041)

SPANISH TRAILS-UNIT 2 EAST

SAN ANTONIO, TEXAS PHASE 2B CIVIL CONSTRUCTION PLANS



PREPARED FOR:

K.B. HOME LONE STAR, INC. 4800 FREDERICKSBURG RD SAN ANTONIO, TEXAS 78229



Sheet List Table **Sheet Title Sheet Description** Sheet No. **COVER SHEET (UNIT-2B)** MASTER DRAINAGE PLAN C1.01 DRAIN A PLAN AND PROFILE PLAN AND PROFILE C1.02 DRAIN B AND DRAIN C ALMA DRIVE CULVERT PLAN AND PROFILE C1.03 DRAINAGE DETAILS C1.10 SHEET 1 OF 3 DRAINAGE DETAILS SHEET 2 OF 3 C1.20 SHEET 3 OF 3 C1.30 DRAINAGE DETAILS PLAN AND PROFILE (STA. 10+00.00 TO 13+41.00) C2.01 BARRIADA STREET PLAN AND PROFILE (STA. 19+50.00 TO END) C2.02 BARRIADA STREET PLAN AND PROFILE C2.05 **BINIBECA** PLAN AND PROFILE C2.06 **ALMA DRIVE** WIDENING AND SIDEWALK IMPROVEMENTS STREET DETAILS C2.10 **OVERALL SIGNAGE PLAN** C3.00 SIGNAGE DETAILS SHEET 1 OF 2 C3.10 SHEET 2 OF 2 SIGNAGE DETAILS C3.20 OVERALL SANITARY SEWER PLAN C4.00B C4.02B **EXISTING SANITARY SEWER LINE A** SANITARY SEWER LINE G C4.05 SANITARY SEWER NOTES C4.10 SANITARY SEWER DETAILS C4.20 C5.00B OVERALL WATER DISTRIBUTION PLAN WATER DISTRIBUTION NOTES C5.10 C5.20 WATER DISTRIBUTION DETAILS **OVERALL UTILITY PLAN** C6.00 **GRADING PLAN** C7.00 STORMWATER POLLUTION PREVENTION PLAN C8.00 STORMWATER POLLUTION PREVENTION DETAILS C8.10

MAY 2025



WASTEWATER COLLECTION LOWER WASTEWATER TREATMENT DOS RIOS/LEON CREEK

	10145 1 0115 4	0745 1110		
DEVELOPER'S NAME: K.B.				
ADDRESS: 4800 FREDER				
CITY: SAN ANTONIO				
PHONE# <u>(210) 301-2886</u>			•	
SAWS BLOCK MAP# 19056		_ ~	~	
TOTAL LINEAR FOOTAGE OF	PIPE:	7 <u>11– 8"SS</u>	PLAT NO	. 2 <u>2-1180012</u> 1
NUMBER OF LOTS 81	SAWS	JOB NO.	22-1628	}

WATER (SAWS PRESSURE ZONE 828)

_	,
	DEVELOPER'S NAME: K.B. HOME LONE STAR, INC.
l	ADDRESS: 4800 FREDERICKSBURG RD
l	CITY: SAN ANTONIO STATE: TEXAS ZIP: 78229
l	PHONE# (210) 301-2886 FAX# (210) 366-2378
l	SAWS BLOCK MAP# 190562 TOTAL EDU'S 81 TOTAL ACREAGE 20.67
l	TOTAL LINEAR FOOTAGE OF PIPE: (2060 (8"W)) PLAT NO. 22-1180012
I	NUMBER OF LOTS 81 SAWS JOB NO. 22-1134

Existing Conditions Calculations

		Drain	Araa	_	(ft)	Ove	rland/Sh	neet	Challe	u Can		d Flav	. 4**	Chann	امماناه			Ration	al Method	Q=CIA
		Diali	nage Areas	S	g g	Flo	w (Seely	/e)	Snano	w Con	centrate	a Flow	/ - 1	Chann	elizea	riow		IDF Curve:	CoSA_A	14_PA5
Ref. Point	Structure / Description	#	Area (Ac)	С	Total Flowpa	L _○ (FT)	S _○ (ft/ft)	T _O * (MIN)	L _{SC} (FT)	Condition***	Slope (ft/ft)	V _{SC} (FPS)	T _{SC} ** (MIN)	L _{CH} (FT)	V _{CH} (FPS)	T _{CH} ** (MIN)	Тс-тот	Return Year	Intensity (in/hr)	Q (cfs)
	Curb Inlet/Street																21	5	4.38	16.9
1		D	8.79	0.44	890	185	0.015	17	705	S	0.010	2.8	4.2		-	-	21	25	6.02	23.3
	Capacity																21	100	7.52	29.1
	Curb Inlet/Street																23	5	4.18	17.7
2	Capacity	E	9.62	0.44	1,050	230	0.013	20	820	s	0.016	3.6	3.8		-	-	23	25	5.75	24.3
	Сараспу																23	100	7.17	30.3
																	23	5	4.18	33.9
3	Storm Drain	D+E	18.41	0.44	1,050	230	0.013	20	820	S	0.016	3.6	3.8		-	-	23	25	5.75	46.6
			5														23	100	7.17	58.1

Rational Method Time of Concentration

*Seelye Chart or TR-55 Eqn. 3-3 **As Calculated using Mannings or TR-55 Figure 3-1 or 6 ft/s

 $k = 1.486 ft^{1/3}/s$

From TR-55 Figure 3-1**

S: For Streets: n = 0.018, R = 0.2 (Adapted from Mannings) **P:** For Paved: n = 0.025, R = 0.2 **U:** For Unpaved: n = 0.05, R = 0.4 **D:** For Default: v = 6 fps

Proposed Conditions Calculations

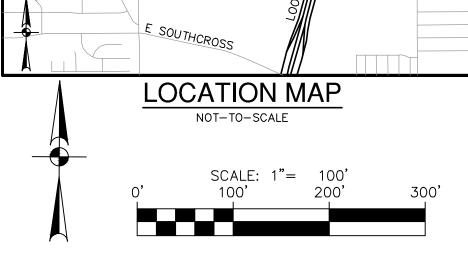
		Drain	nage Areas	<u> </u>	(ft)	Ove	rland/Sh	neet	Shallo	w Con	centrate	d Flow	. 4**	Chann	olizod	Elove**		Rational Method Q=CIA		
_		Dian	iaye Areas	>	돭	Flo	w (Seely	/e)	Silalio	w Con	Ceriti ate	u riow	- 1	Channelized Flow**			IDF Curve:	CoSA_A	14_PA4	
Ref. Point	Structure / Description	#	Area (Ac)	С	Total Flowp	L _O (FT)	S _O (ft/ft)	T _O * (MIN)	L _{SC} (FT)	Condition***	Slope (ft/ft)	V _{SC} (FPS)	T _{SC} ** (MIN)	L _{CH} (FT)	V _{CH} (FPS)	T _{CH} ** (MIN)	Тс-тот	Return Year	Intensity (in/hr)	Q (cfs)
	Curb Inlet/Street																21	5	4.40	29.8
1	Capacity	D	8.79	0.77	890	185	0.015	17	705	S	0.010	2.8	4.2		-	-	21	25	6.05	40.9
	Сараспу																21	100	7.52	50.9
	Curb Inlet/Street																23	5	4.21	31.2
2		Е	9.62	0.77	1,050	230	0.013	20	820	S	0.016	3.6	3.8		-	-	23	25	5.77	42.7
	Capacity																23	100	7.17	53.1
																	23	5	4.21	59.7
3	Storm Drain	D+E	18.41	0.77	1,050	230	0.013	20	820	s	0.016	3.6	3.8		-	-	23	25	5.77	81.8
																	23	100	7.17	101.6

Rational Method Time of Concentration From TR-55 Figure 3-1** *Seelye Chart or TR-55 Eqn. 3-3

**As Calculated using Mannings or TR-55 Figure 3-1 or 6 ft/s

 $k = 1.486 ft^{1/3}/s$

S: For Streets: n = 0.018, R = 0.2 (Adapted from Mannings) **P:** For Paved: n = 0.025, R = 0.2 **U:** For Unpaved: n = 0.05, R = 0.4 **D:** For Default: v = 6 fps



CITY OF SAN ANTONIO

SINCLAIR RD

MASTER DRAINAGE LEGEND

100 YR FEMA FLOODPLAIN DRAINAGE AREA BOUNDARY

OVERLAND FLOW PATH

SHALLOW CONCENTRATED FLOW PATH CONCENTRATED FLOW PATH

EXISTING CONTOUR

LOT GRADING

____ Lsc=246'__ ___ ---Lc=246'---— —690—

DRAINAGE CALCULATION POINT

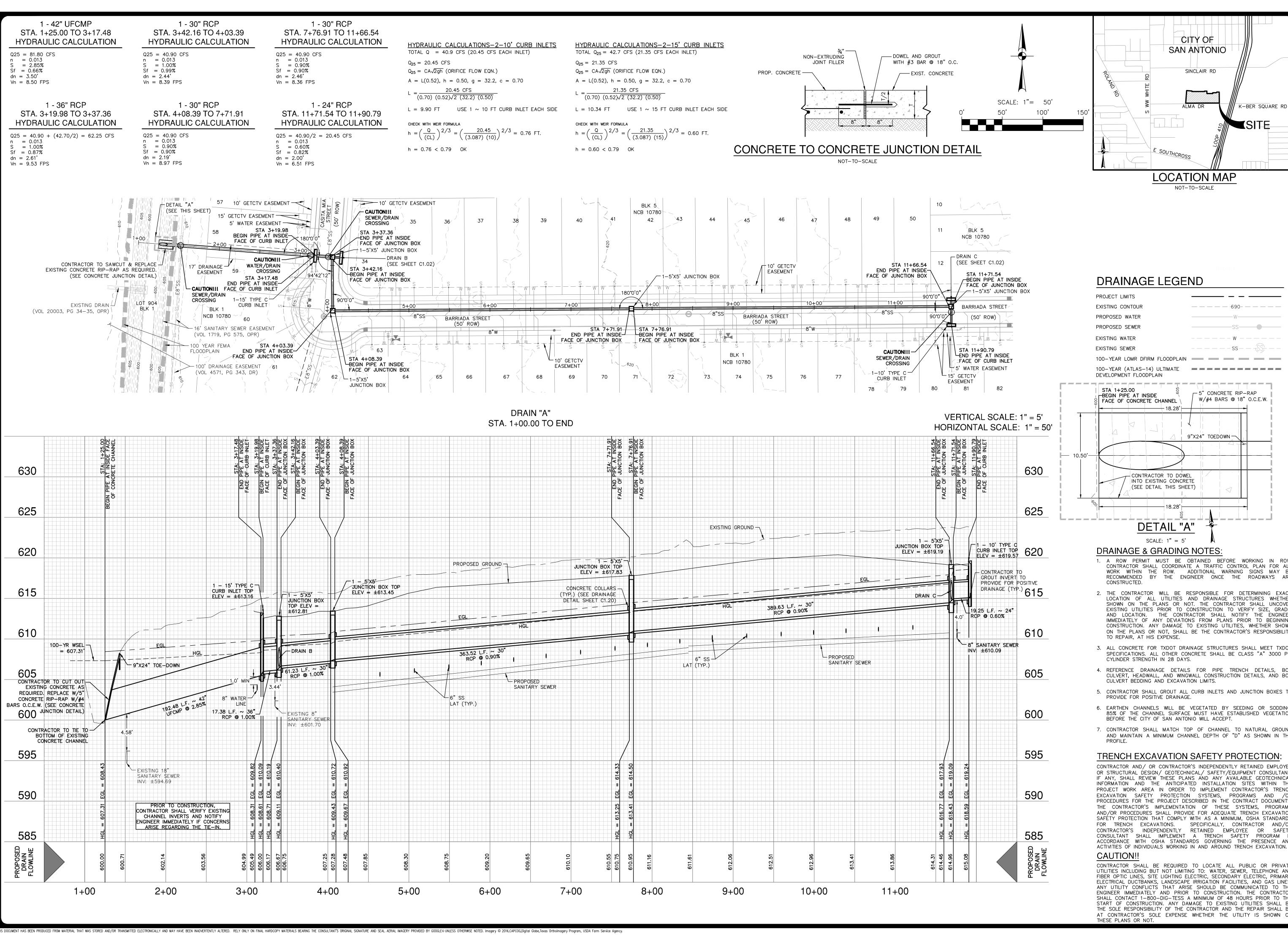
K-BER SQUARE RD

PAPE-DAWSON ENGINEERS

2 SPANISH TRAILS-UNIT SAN ANTONIO, TEXAS

1 PLAT NO. 22-1180012

8.172 AC
REMAINDER OF 52.517 AC
BORALIS USA, INC.
(DOC. 20190165073, OPR) 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 /9 **←** A = 7 🖊 A 100 YR UD WSEL = 609.74 NCB 10780 89.251 AC KB HOME LONE STAR, INC. (DOC NO 20210354816, OPR) 3 🖊 A (50' ROW) \leftarrow B \rightarrow 1 VIA DÈ VENTURA (VARIABLE WIDTH ROW) UNPLATTED
6.606 AC
REMAINDER OF 51.53 AC
BORALIS USA, INC.
(DOC. 20190165074, OPR) 100 YR UD WSEL = 608.57 Lsc=705' BARRIADA STREET ALMA DRIVE
(61' PUBLIC ROW)
(VOL 2805, PG 83, DPR) (61' PUBLIC ROW) (VOL 2805, PG 83, DPR)



CITY OF SAN ANTONIO SINCLAIR RD K-BER SQUARE RD E SOUTHCROSS 3/12/2024 **LOCATION MAP**

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RAIN ND PI

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DRAINAGE LEGEND

100-YEAR LOMR DFIRM FLOODPLAIN

NOT-TO-SCALE

100-YEAR (ATLAS-14) ULTIMATE

- 5" CONCRETE RIP-RAP W/#4 BARS @ 18" O.C.E.W. FACE OF CONCRETE CHANNEL 9"X24" TOEDOWN -CONTRACTOR TO DOWEL INTO EXISTING CONCRETE (SEE DETAIL THIS SHEET) **DETAIL "A"** SCALE: 1" = 5'

DRAINAGE & GRADING NOTES:

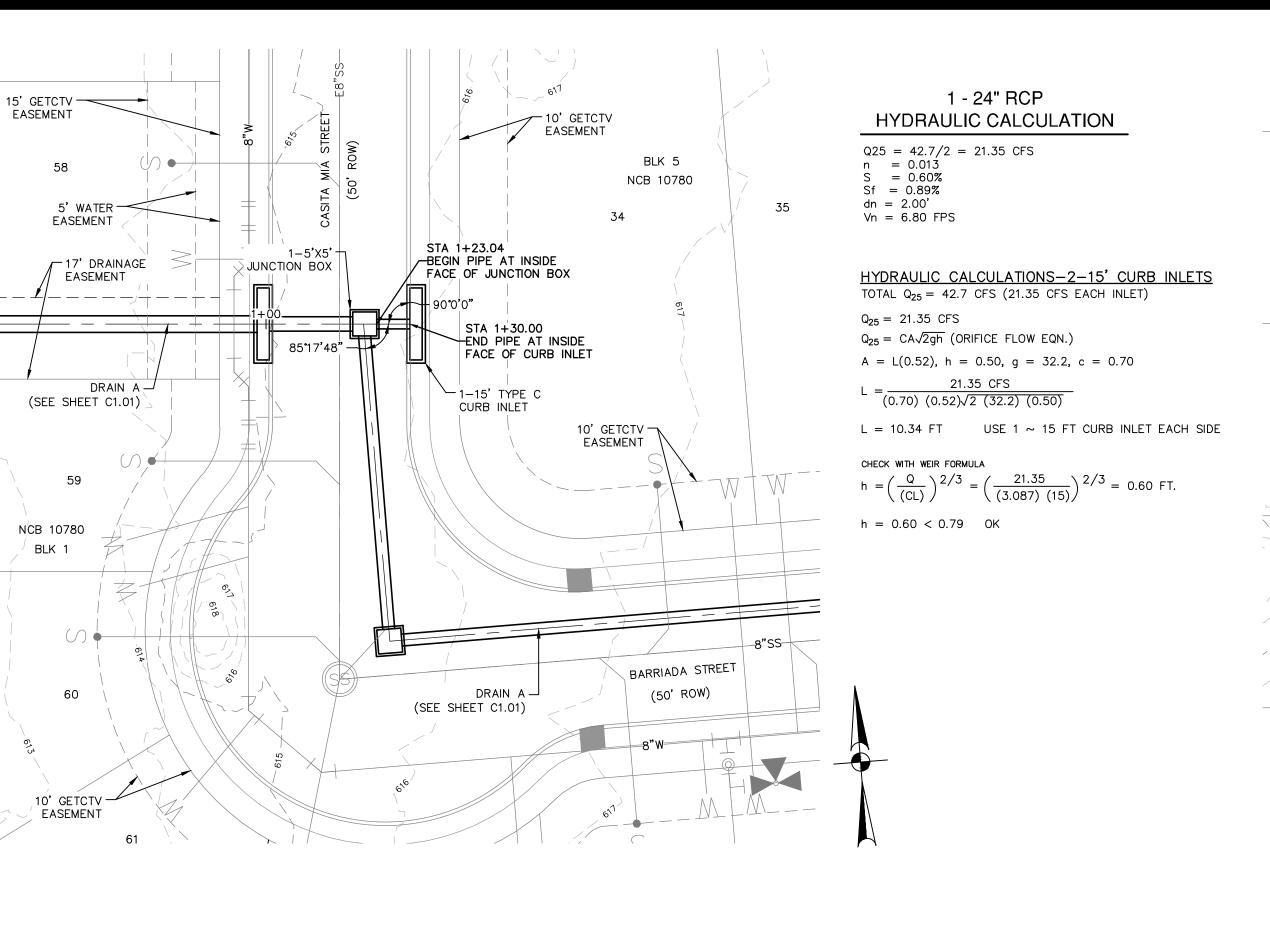
- CONTRACTOR SHALL COORDINATE A TRAFFIC CONTROL PLAN FOR AL WORK WITHIN THE ROW. ADDITIONAL WARNING SIGNS MAY BI RECOMMENDED BY THE ENGINEER ONCE THE ROADWAYS ARE
- 2. THE CONTRACTOR WILL BE RESPONSIBLE FOR DETERMINING EXAM LOCATION OF ALL UTILITIES AND DRAINAGE STRUCTURES WHETHER SHOWN ON THE PLANS OR NOT. THE CONTRACTOR SHALL UNCOVER EXISTING UTILITIES PRIOR TO CONSTRUCTION TO VERIFY SIZE, GRADE, AND LOCATION. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY OF ANY DEVIATIONS FROM PLANS PRIOR TO BEGINNING CONSTRUCTION. ANY DAMAGE TO EXISTING UTILITIES, WHETHER SHOWN ON THE PLANS OR NOT, SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO REPAIR, AT HIS EXPENSE.
- 3. ALL CONCRETE FOR TXDOT DRAINAGE STRUCTURES SHALL MEET TXDOT SPECIFICATIONS. ALL OTHER CONCRETE SHALL BE CLASS "A" 3000 PS CYLINDER STRENGTH IN 28 DAYS.
- CULVERT, HEADWALL, AND WINGWALL CONSTRUCTION DETAILS, AND BOX CULVERT BEDDING AND EXCAVATION LIMITS. 5. CONTRACTOR SHALL GROUT ALL CURB INLETS AND JUNCTION BOXES
- PROVIDE FOR POSITIVE DRAINAGE. 6. EARTHEN CHANNELS WILL BE VEGETATED BY SEEDING OR SODDING 85% OF THE CHANNEL SURFACE MUST HAVE ESTABLISHED VEGETATION
- 7. CONTRACTOR SHALL MATCH TOP OF CHANNEL TO NATURAL GROUND AND MAINTAIN A MINIMUM CHANNEL DEPTH OF "D" AS SHOWN IN TH

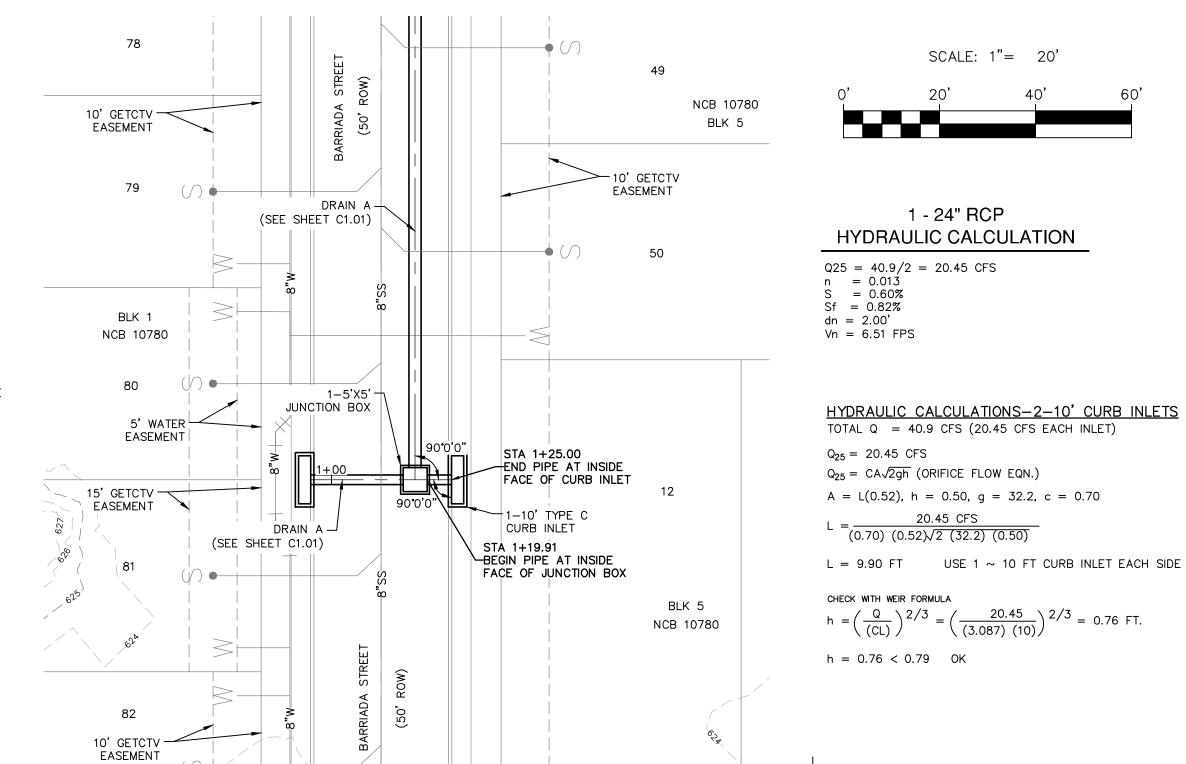
TRENCH EXCAVATION SAFETY PROTECTION:

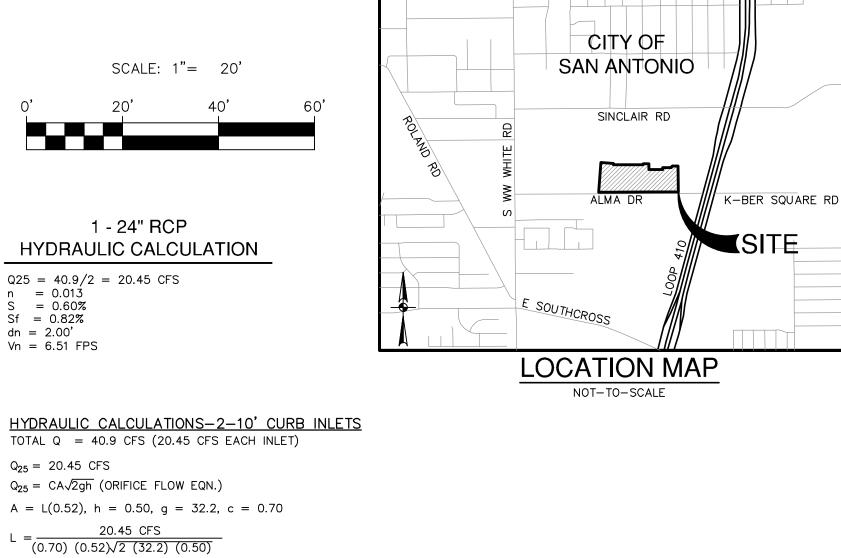
CONTRACTOR AND / OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYE OR STRUCTURAL DESIGN/ GEOTECHNICAL/ SAFETY/EQUIPMENT CONSULTANT, IF ANY, SHALL REVIEW THESE PLANS AND ANY AVAILABLE GEOTECHNICAL INFORMATION AND THE ANTICIPATED INSTALLATION SITES WITHIN TI PROJECT WORK AREA IN ORDER TO IMPLEMENT CONTRACTOR'S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

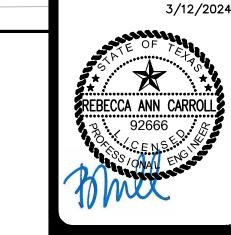
CONTRACTOR SHALL BE REQUIRED TO LOCATE ALL PUBLIC OR PRIVATE UTILITIES INCLUDING BUT NOT LIMITING TO: WATER, SEWER, TELEPHONE AND FIBER OPTIC LINES, SITE LIGHTING ELECTRIC, SECONDARY ELECTRIC, PRIMARY ELECTRICAL DUCTBANKS, LANDSCAPE IRRIGATION FACILITIES, AND GAS LINES ANY UTILITY CONFLICTS THAT ARISE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

NO 22-1180012 12044-05









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PAPE-DAV ENGINEEI

DRAINAGE LEGEND

PROJECT LIMITS

EXISTING CONTOUR

PROPOSED WATER

PROPOSED SEWER

EXISTING WATER

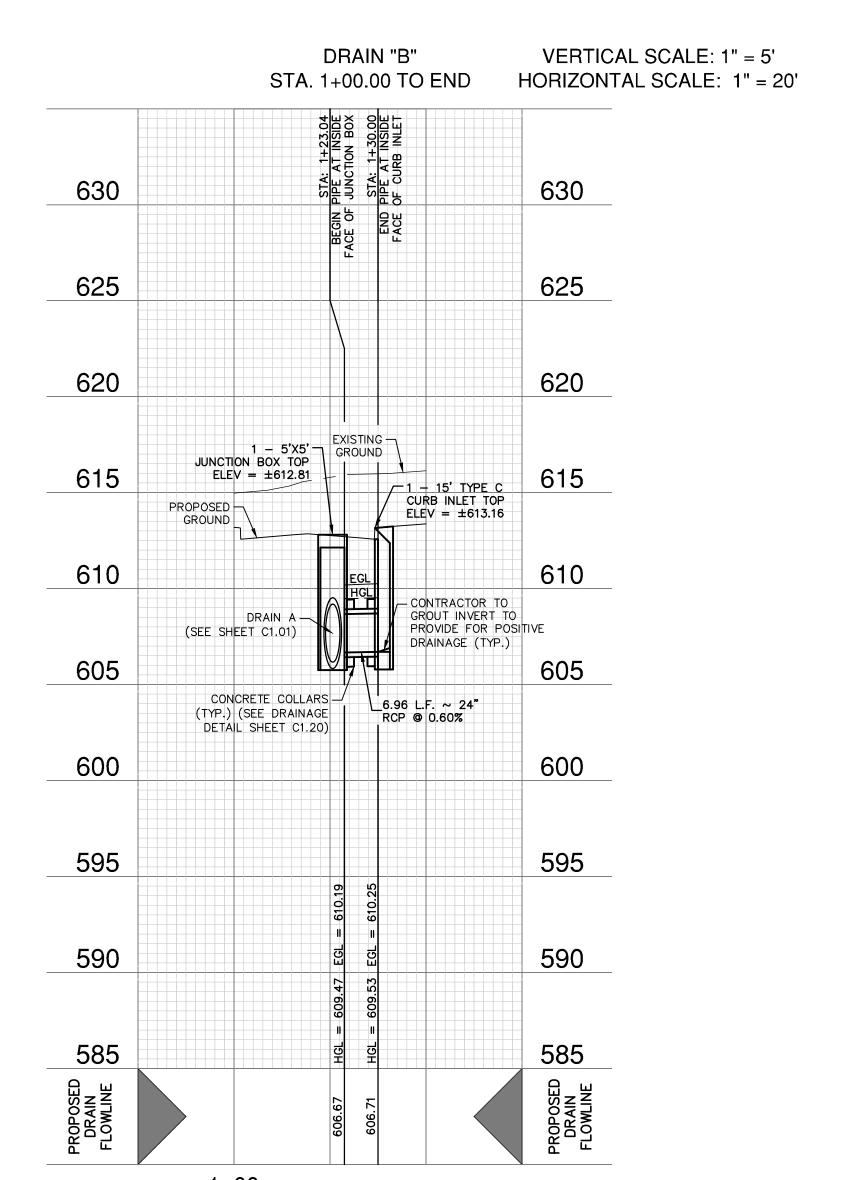
EXISTING WATER

EXISTING SEWER

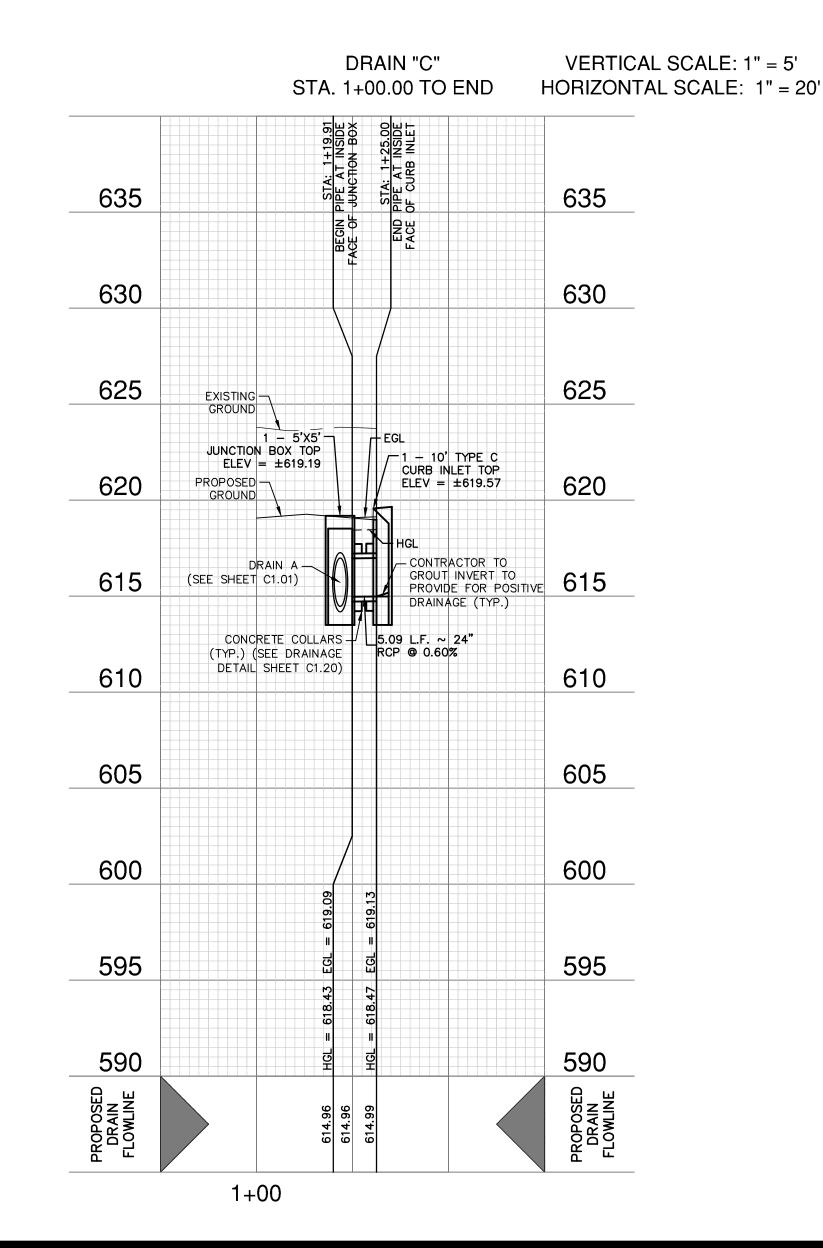
100-YEAR LOMR DFIRM FLOODPLAIN

W

100-YEAR (ATLAS-14) ULTIMATE
DEVELOPMENT FLOODPLAIN



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



DRAINAGE & GRADING NOTES:

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

TRENCH EXCAVATION SAFETY PROTECTION:

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

PLAT NO. 22-11800121

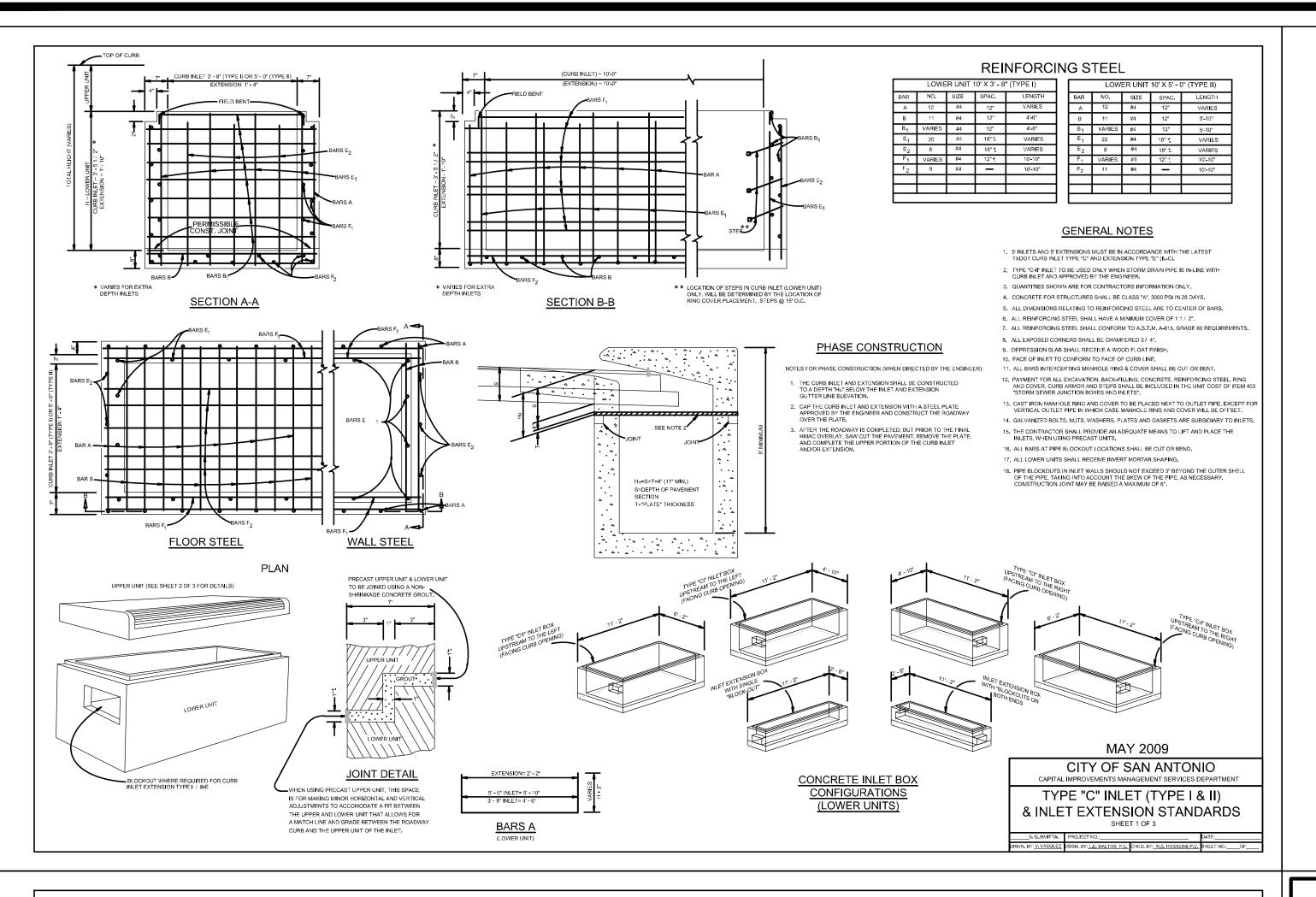
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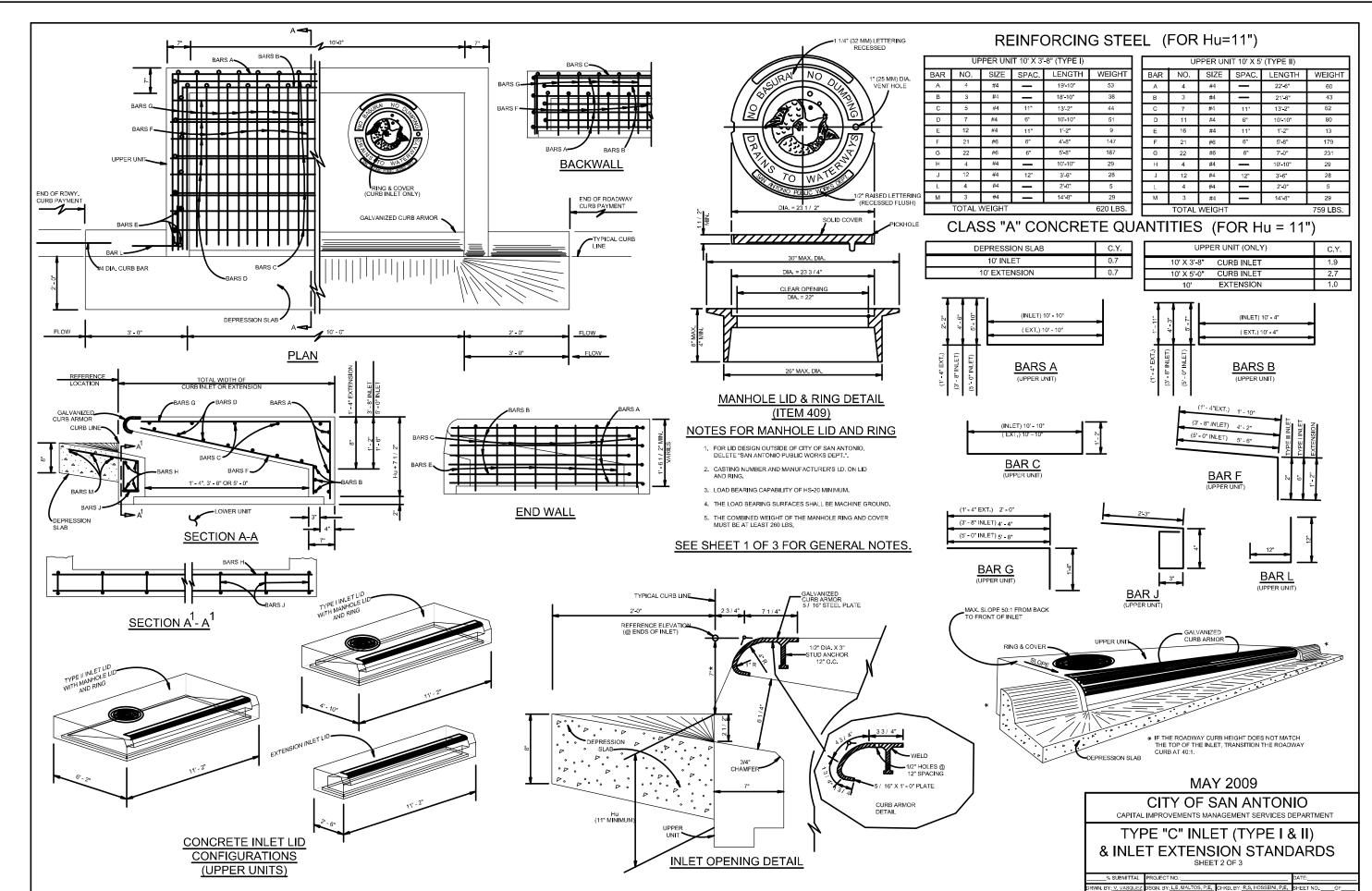
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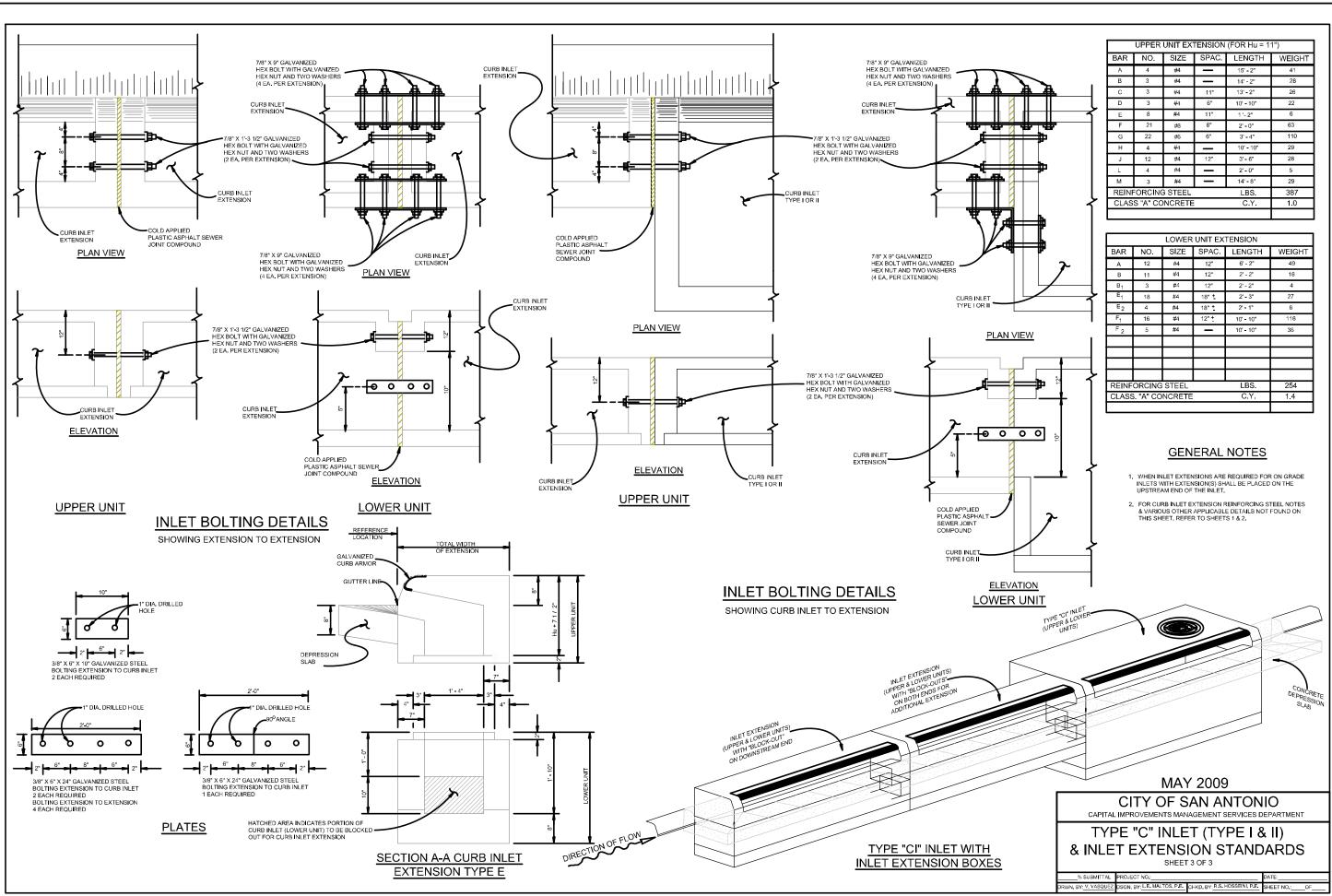
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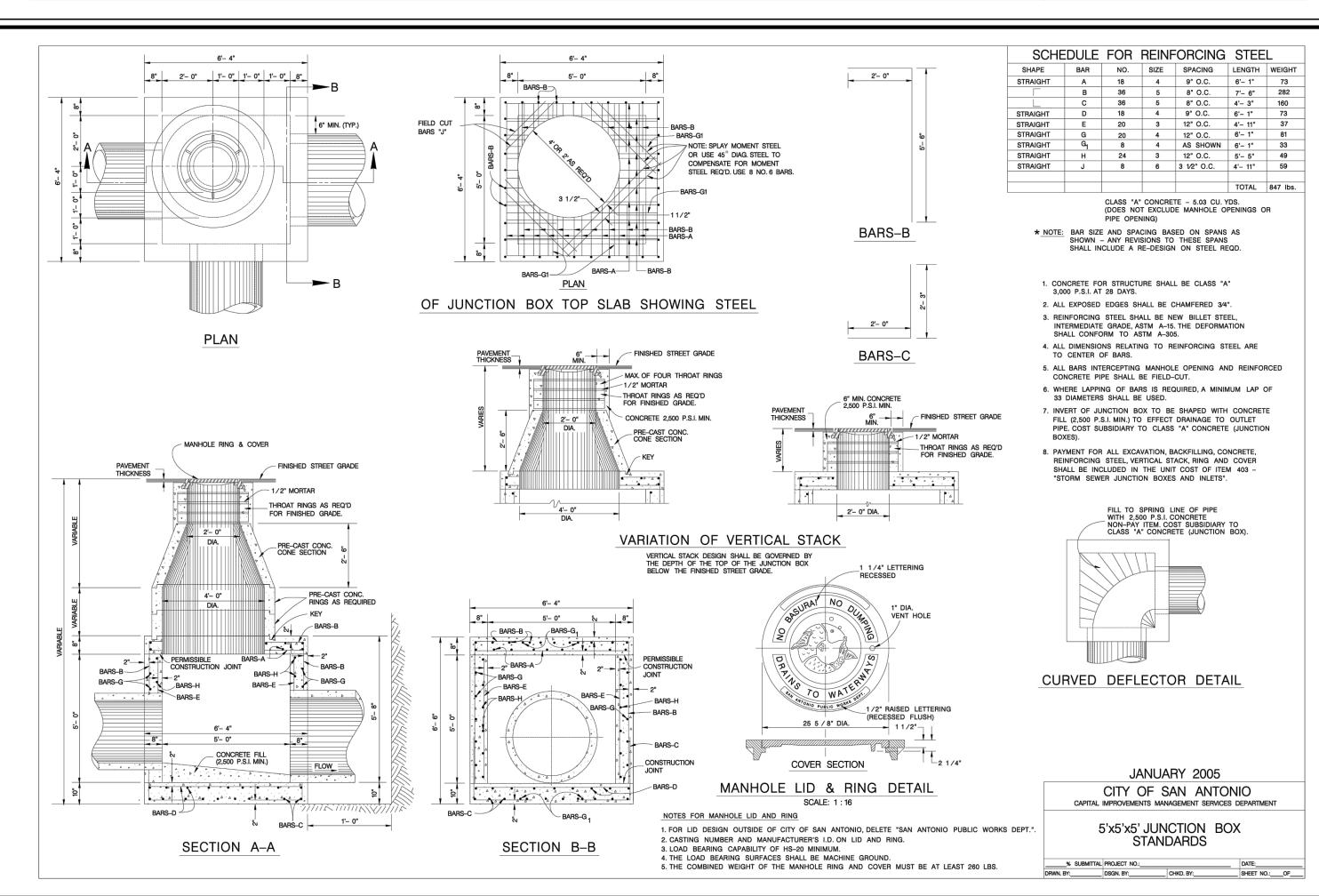
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C1.02









SPANISH TRAILS-UNIT 2 EAST SAN ANTONIO, TEXAS

RAINAGE SHEET 1

12/4/2023

REBECCA ANN CARROL

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WS RS

PLAT NO. 22-11800121

JOB NO. 12044-05

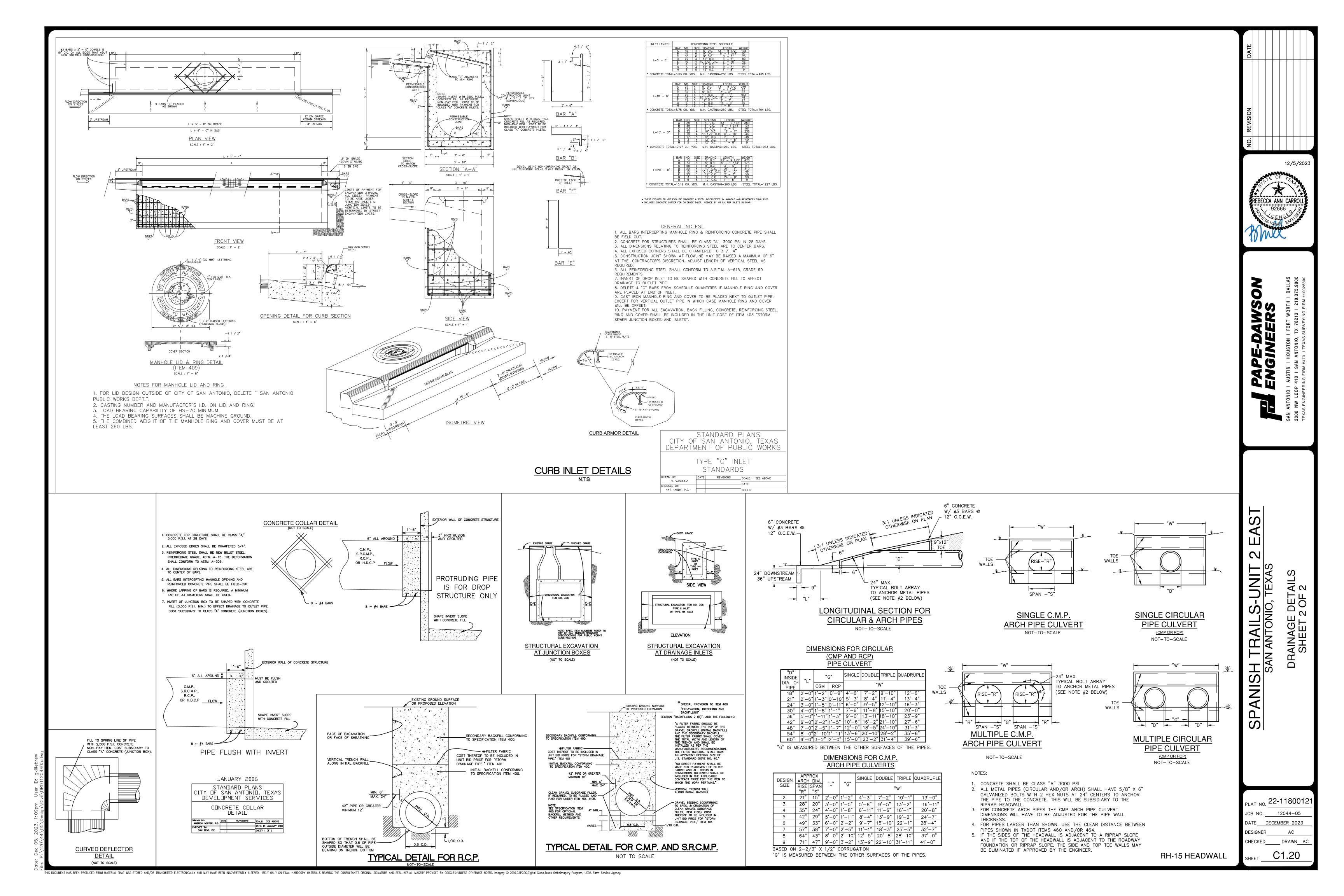
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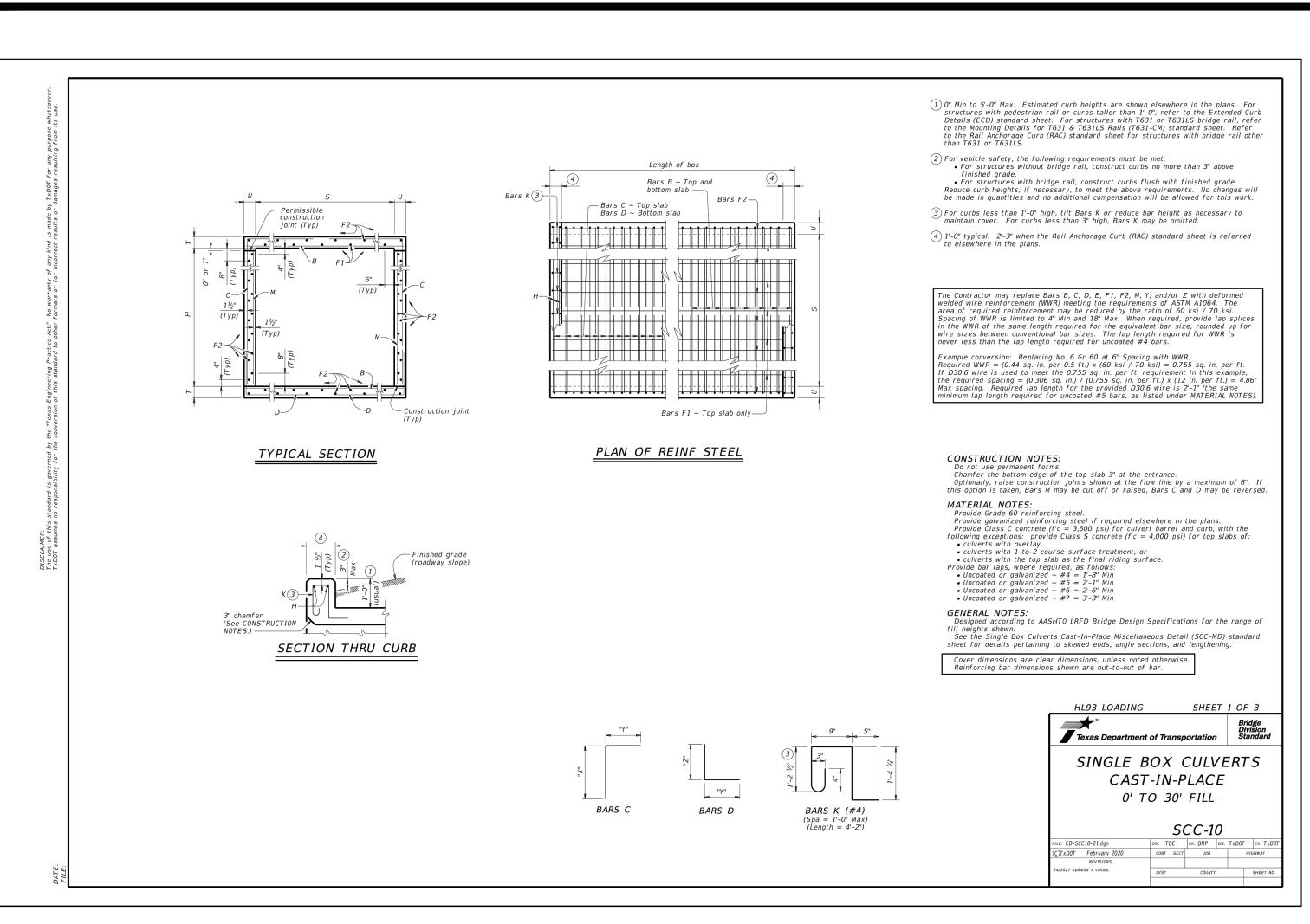
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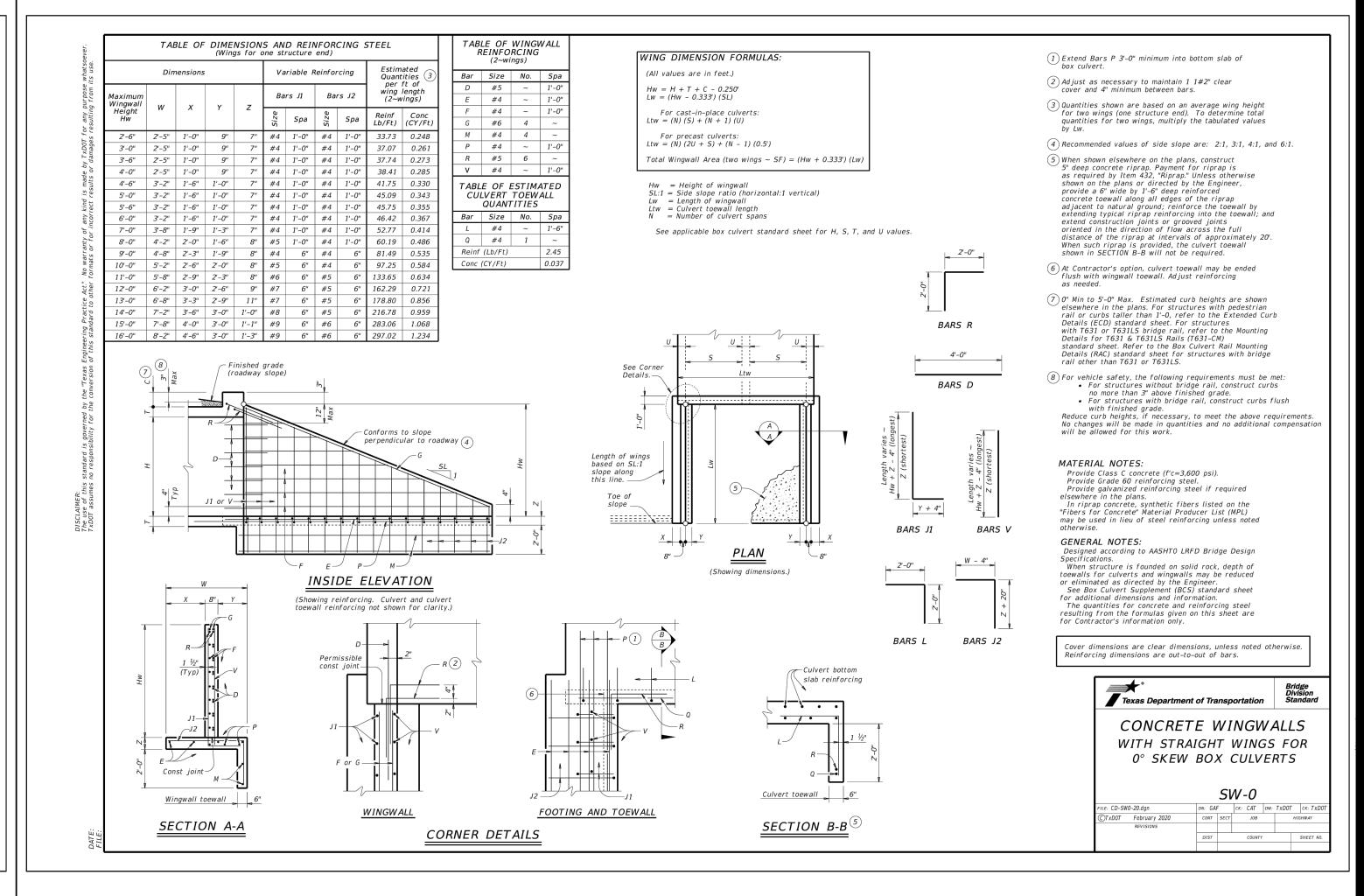
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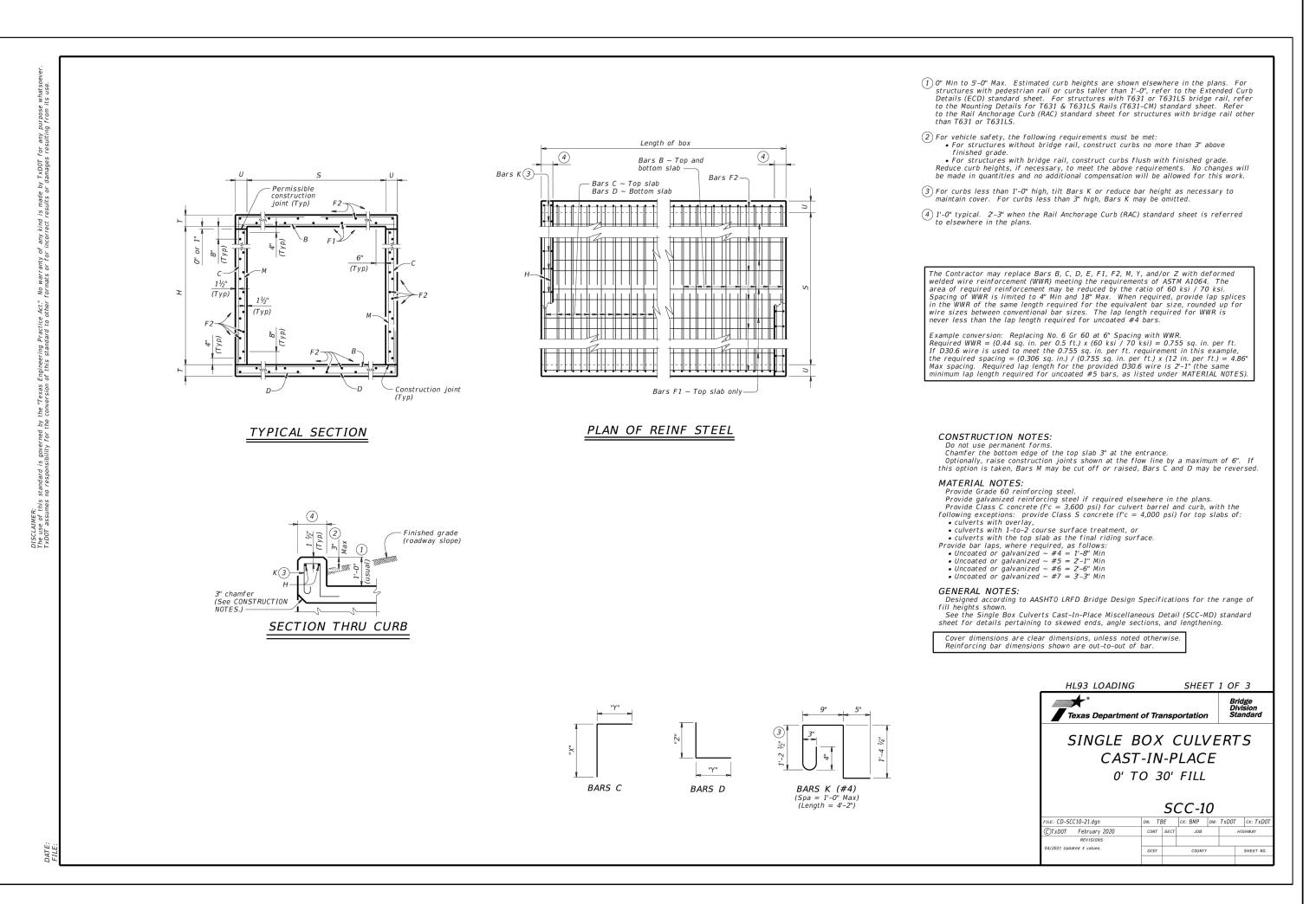
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BILLS OF REINFORCING STEEL (For Box Length = 40 feet)

 162
 #6
 6"
 10'-11"
 2,656
 162
 #6
 6"
 10'-11"
 2,656
 162
 #6
 6"
 10'-11"
 2,656
 162
 #6
 6"
 10'-11"
 2,656
 162
 #6
 6"
 10'-11"
 2,656
 162
 #6
 6"
 10'-11"
 2,656
 162
 #6
 6"
 10'-11"
 2,100
 5'-10"
 3'-2"
 108
 9"
 4'-0"
 289
 7
 39'-9"
 186
 37
 39'-9"
 982
 10'-11"
 29
 24
 67
 0.724
 219.9
 0.8
 96

 162
 #6
 6"
 10'-10"
 162
 #6
 6"
 9'-0"
 2,190
 5'-10"
 3'-2"
 108
 9"
 4'-0"
 289
 7
 39'-9"
 186
 37
 39'-9"
 982
 10'-11"
 29
 24
 67
 0.793
 221.0
 0.8
 96

7 162 #6 6" 11' - 3" 2,737 162 #6 6" 10' - 10" 2,636 #4 - 10" 6' - 0" 162 #6 6" 9' - 5" 2,291 6' - 0" 3' - 5" 108 9" 4' - 0" 289 7 39' - 9" 186 37 39' - 9" 982 11' - 3" 30 26 72 1.074 228.0 0.8 102 43.8 9,223 8" 162 #6 6" 10' - 11" 2,656 #4 - 11" 6' - 0" 162 #6 6" 9' - 6" 2,312 6' - 0" 3' - 6" 108 9" 4' - 0" 289 7 39' - 9" 186 37 39' - 9" 982 11' - 5" 31 26 72 1.294 233.1 0.9 103 52.6 9,428

16' 162 #6 6" 11' -1' 2,697 162 #6 6" 11' -1' 2,697 162 #6 6" 11' -1' 2,899 5' -9" 5' -11" 162 #6 6" 9' -3" 2,251 5' -11" 3' -4" 82 12" 5' -0" 3' -9" 186 41 39' -9" 1,089 11' -1" 30 26 72 1,016 233.4 0.8 102 41.5 9,438 20' 162 #6 6" 11' -1" 2,900 5' -11" 6' -0" 162 #6 6" 9' -6" 2,312 6' -0" 3' -6" 108 9" 5' -0" 361 7 39' -9" 186 41 39' -9" 1,089 11' -5" 31 26 72 1,245 240.7 0.9 103 50.7 9,729

26' 162 #6 6'' 11'-7" 2,819 162 #6 6'' 11'-7" 2,819 162 #6 6'' 13'-1" 3,183 7'-0" 6'-1" 162 #6 6'' 9'-8" 2,352 6'-1" 3'-7" 108 9" 6'-0" 433 7 39'-9" 1,95 11'-7" 31 26 72 1,430 254.2 0.9 103 58.1 10,27 10.

 7° 7°

Bars M ~ #4

SECTION

DIMENSIONS

Bars B

QUANTITIES

Per Foot of Barrel Curb Total

SHEET 2 OF 3

SINGLE BOX CULVERTS

CAST-IN-PLACE

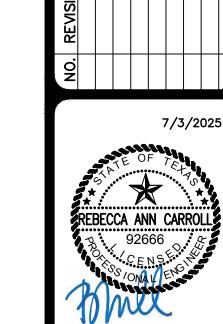
0' TO 30' FILL

SCC-10

HL93 LOADING

CD-SCC10-21.dgn

CTxDOT February 2020
REVISIONS



UNITEXAS Z

DET,

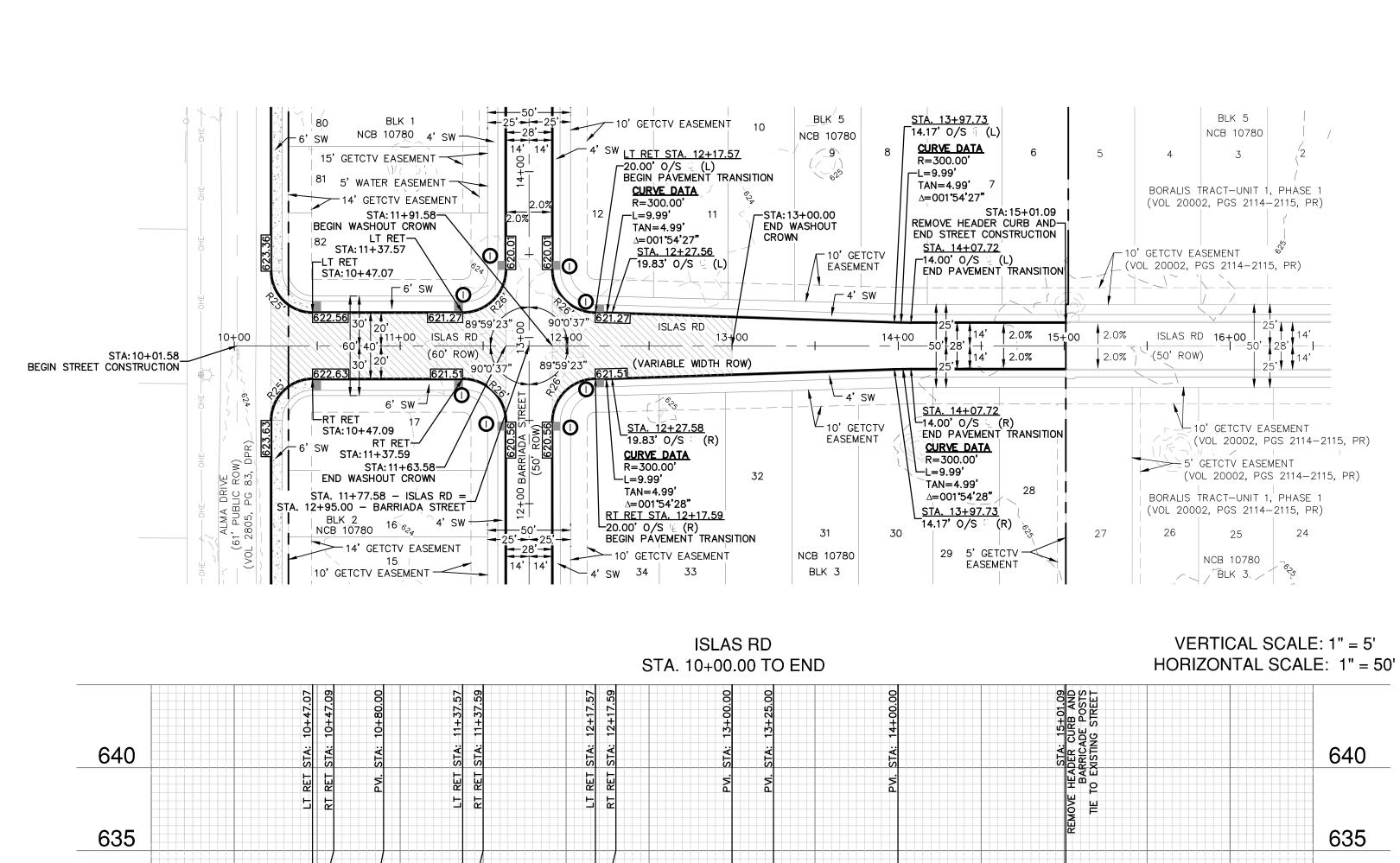
AINAGE SHEET 3

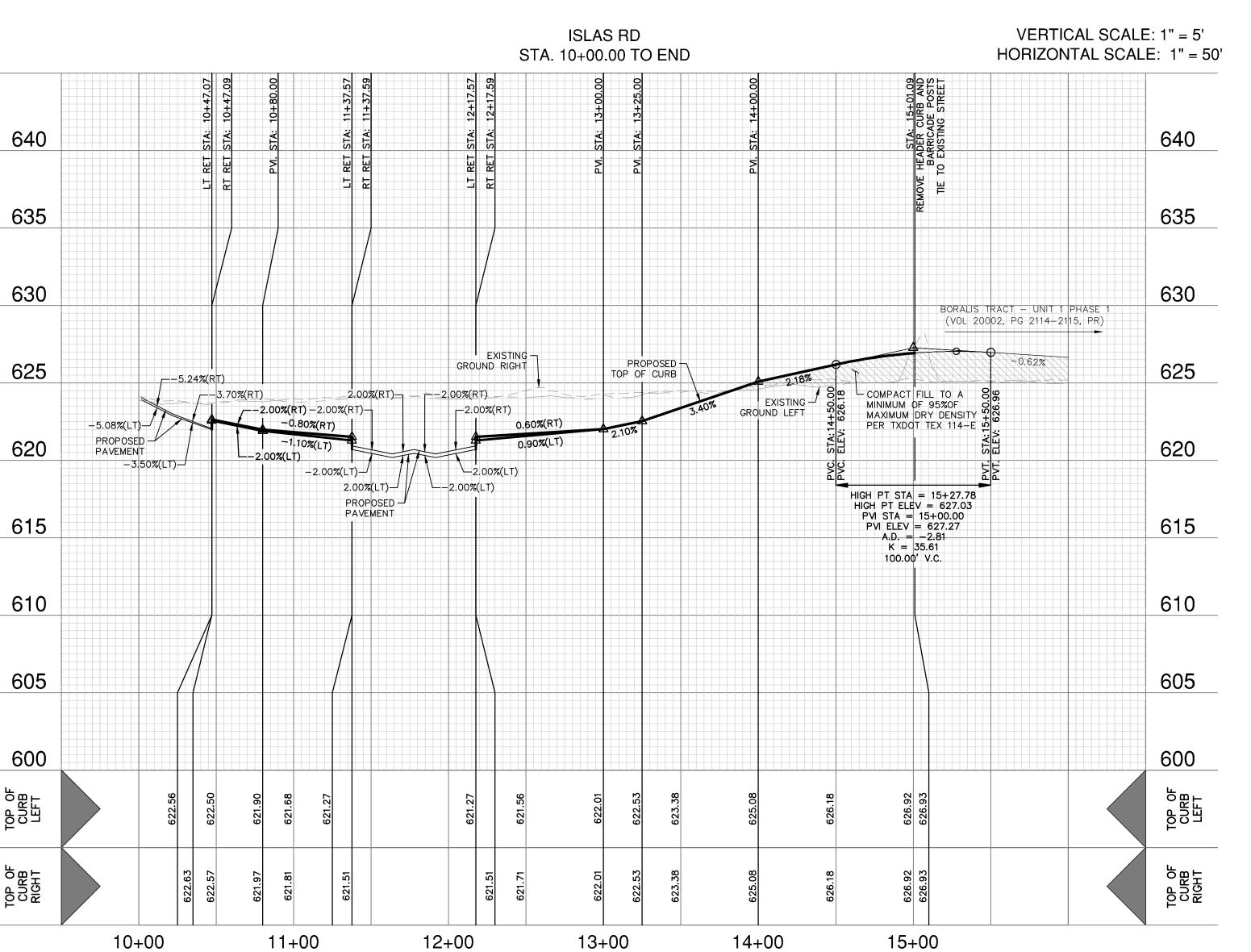
NO 22-1180012 12044-05 JULY 2025 DESIGNER DRAWN A HECKED

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(5) For direct traffic culverts (fill height \leq 2 ft.), identify the required box size and select the option with the minimum fill height.

0° 162 #6 6° 10° -11° 2,656 162 #6 6° 14° -4° 3,488 8° -6° 5′ -10° 162 #6 6° 8° -11° 2,170 5′ -10° 3′ -1° 108 9° 8′ -0° 577 7° 3′ 162 #6 6° 11′ -1° 2,697 162 #6 6° 14′ -6° 3,528 8′ -7° 5′ -11° 162 #6 6° 9′ -1° 2,210 5′ -11° 3′ -2° 82 12° 8′ -0° 438 7° 6′ 162 #6 6° 11′ -1° 2,697 162 #6 6° 14′ -7° 3,548 8′ -8° 5′ -11° 162 #6 6° 9′ -2° 2,230 5′ -11° 3′ -3° 82 12° 8′ -0° 438 7° 162 #6 6° 11′ -1° 2,697 162 #6 6° 14′ -7° 3,548 8′ -8° 5′ -11° 162 #6 6° 9′ -2° 2,230 5′ -11° 3′ -3° 82 12° 8′ -0° 438 7° 162 #6 6° 11′ -1° 2,697 162 #6 6° 14′ -7° 3,548 8′ -8° 5′ -11° 162 #6 6° 9′ -2° 2,230 5′ -11° 3′ -3° 82 12° 8′ -0° 438 7° 162 #6 6° 11′ -1° 2,697 162 #6 6°

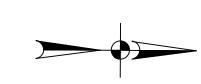


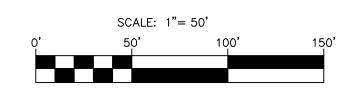


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LOCATION MAP NOT-TO-SCALE





STREET LEGEND

DRIVEWAY

PROJECT LIMITS WHEELCHAIR RAMP POINT OF CURVATURE PC PΤ POINT OF TANGENCY RET RETURN 975.50 TOP OF CURB SPOT ELEVATION WASHOUT CROWN SECTION PROPOSED SIDEWALK [SW] (HOMEBUILDER'S RESPONSIBILITY) PROPOSED CONCRETE SIDEWALK [SW] (CONTRACTOR'S RESPONSIBILITY)

PAPE-DAWS(ENGINEERS

SO

\triangleleft SH TRAILS-UNIT SAN ANTONIO, TEXAS

S

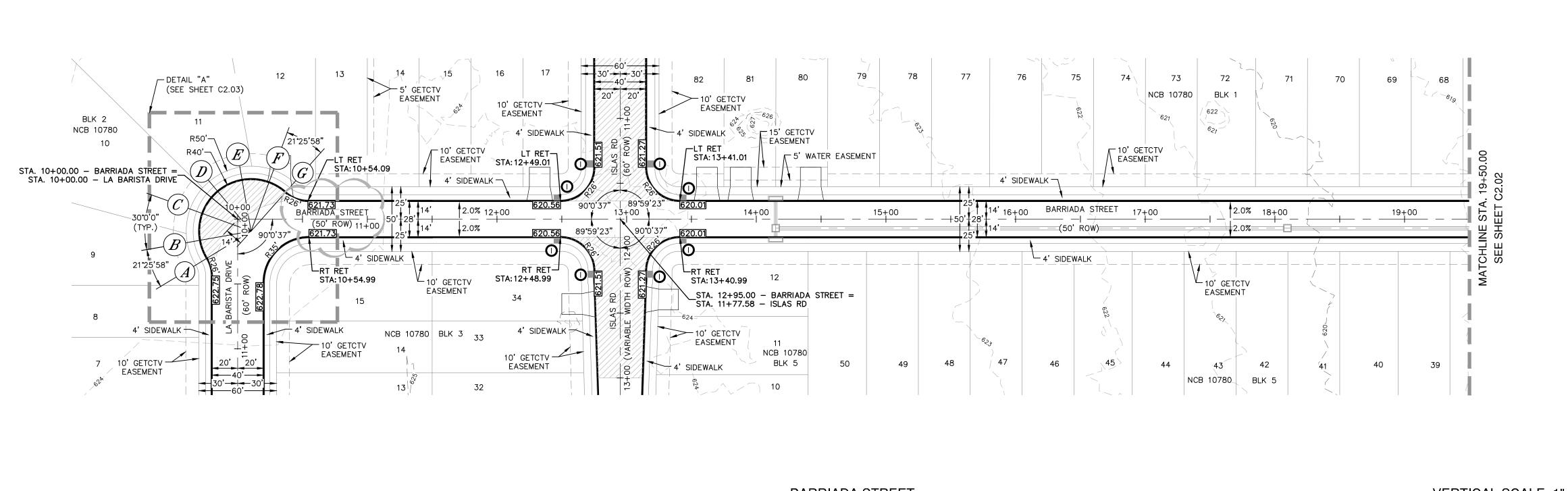
STREET NOTES:

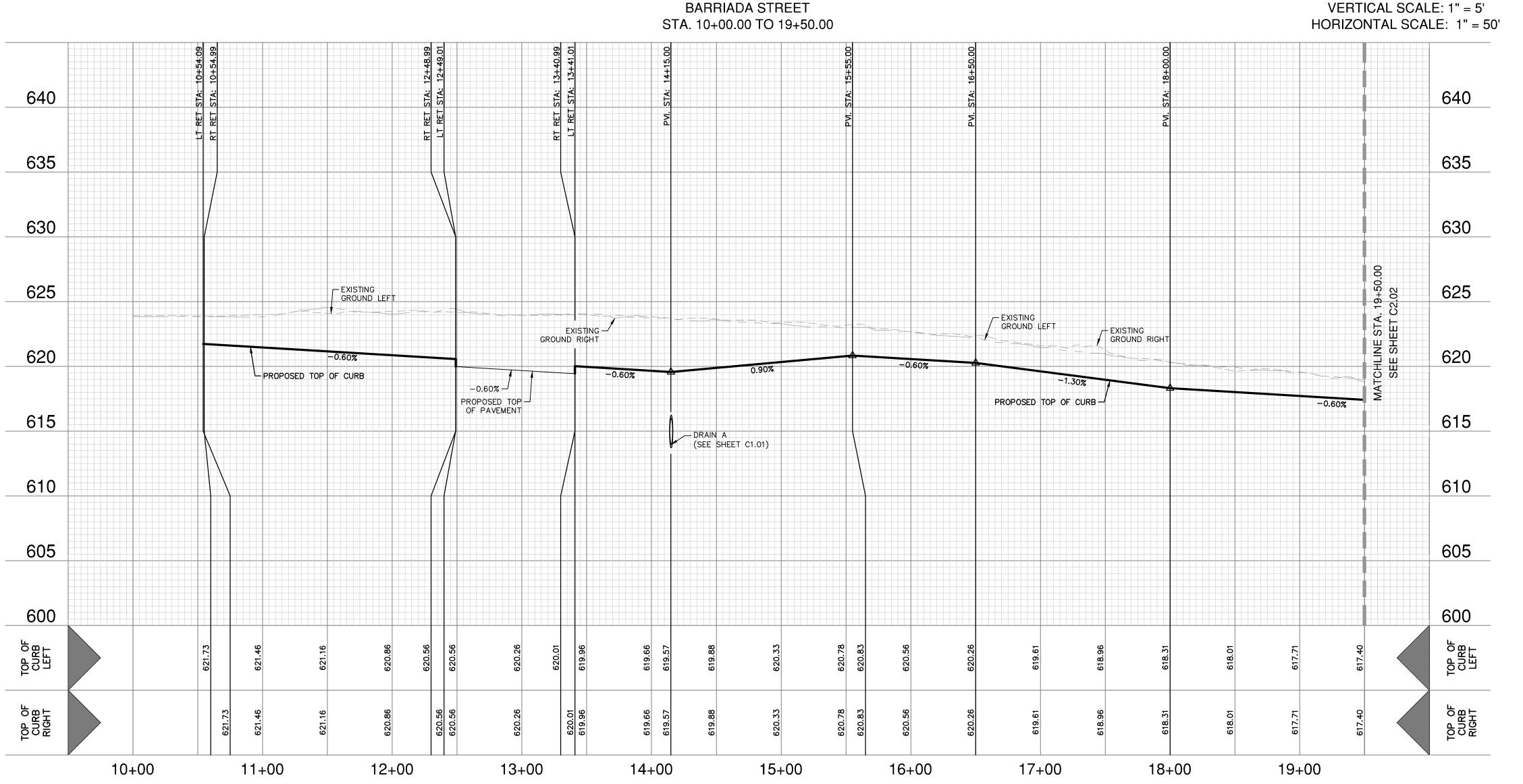
- 1. A ROW PERMIT MUST BE OBTAINED BEFORE WORKING IN ROW CONTRACTOR SHALL COORDINATE A TRAFFIC CONTROL PLAN FOR ALL WORK WITHIN THE ROW. ADDITIONAL WARNING SIGNS MAY E RECOMMENDED BY THE ENGINEER ONCE THE ROADWAYS ARE
- 2. CONTRACTOR SHALL MATCH EXISTING PAVEMENT AT TIE—IN. IF EXISTING PAVEMENT ELEVATION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

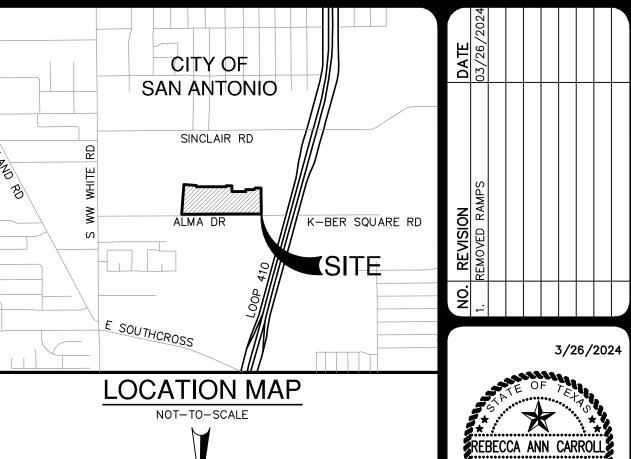
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PLAT NO.	22-11	80012
JOB NO	1204	44-05
DATE	MARCH	2024
DESIGNER		AC
CHECKED	DR	RAWN AC
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C2.00







ON MAP
D-SCALE

REBECCA ANN CA
92666

9267

PROBLES

REBECCA ANN CA
92666

STREET LEGEND

DRIVEWAY

PROJECT LIMITS

WHEELCHAIR RAMP

POINT OF CURVATURE

POINT OF TANGENCY

RETURN

RET

TOP OF CURB SPOT ELEVATION

WASHOUT CROWN SECTION

PROPOSED SIDEWALK [SW]
(HOMEBUILDER'S RESPONSIBILITY)

PROPOSED CONCRETE SIDEWALK [SW]
(CONTRACTOR'S RESPONSIBILITY)

SAN ANTONIO I.

S

80

STREET NOTES:

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- 7. THE CONSTRUCTION OF SIDEWALKS ADJACENT TO ALL 900 SERIES LOTS WILL BE THE RESPONSIBILITY OF THE DEVELOPER AS SHOWN ON THE OVERALL SIGNAGE PLAN.

SPANISH TRAILS-UNIT 2
SAN ANTONIO, TEXAS

BARRIADA (PROFILE (STA.

AND

PLAT NO. 22-11800121

JOB NO. 12044-05

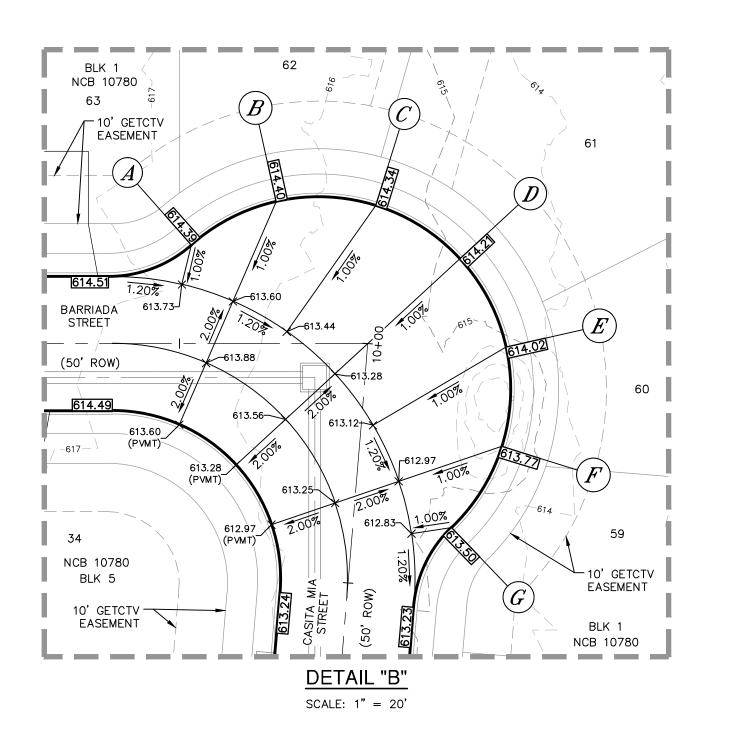
DATE MARCH 2024

DESIGNER AC

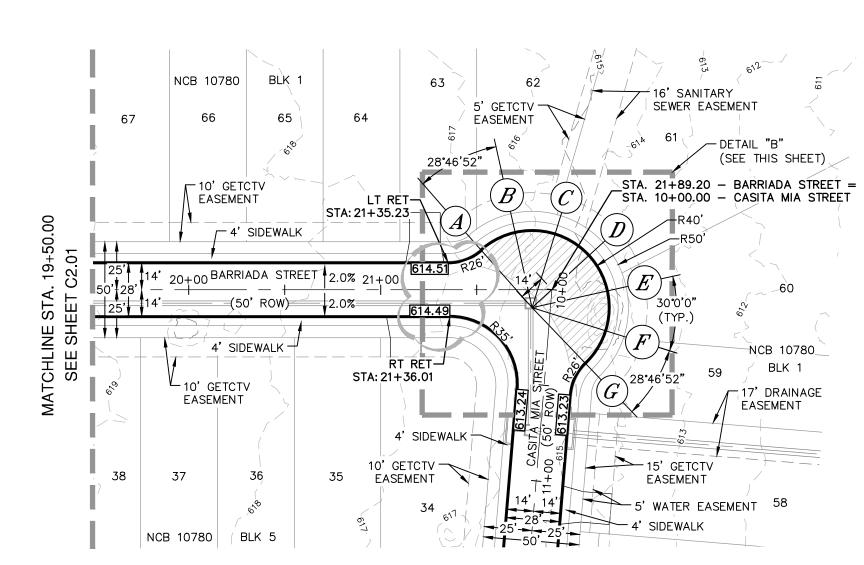
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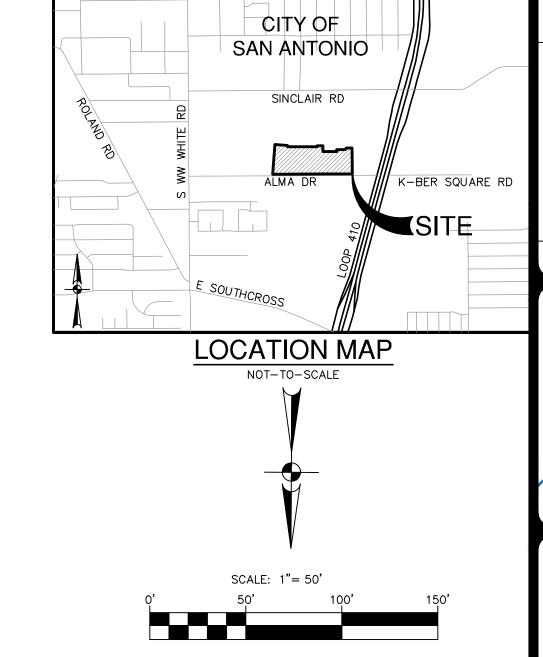
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BARRIADA STREET VERTICAL SCALE: 1" = 5' HORIZONTAL SCALE: 1" = 50' STA. 19+50.00 TO END 635 635 630 630 625 625 620 620 GROUND RIGHT GROUND LEFT 615 615 PROPOSED TOP OF CURB -610 610 605 600 600 595 595 TOP OF CURB LEFT TOP OF CURB RIGHT

21+00

20+00



STREET LEGEND

PROJECT LIMITS

WHEELCHAIR RAMP

POINT OF CURVATURE

PC

POINT OF TANGENCY

RETURN

RET

TOP OF CURB SPOT ELEVATION

WASHOUT CROWN SECTION

PROPOSED SIDEWALK [SW]
(HOMEBUILDER'S RESPONSIBILITY)

PROPOSED CONCRETE SIDEWALK [SW]
(CONTRACTOR'S RESPONSIBILITY)

STREET NOTES:

- A ROW PERMIT MUST BE OBTAINED BEFORE WORKING IN ROW. CONTRACTOR SHALL COORDINATE A TRAFFIC CONTROL PLAN FOR ALL WORK WITHIN THE ROW. ADDITIONAL WARNING SIGNS MAY BE RECOMMENDED BY THE ENGINEER ONCE THE ROADWAYS ARE CONSTRUCTED.
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- 3. SIDEWALKS SHALL BE CONSTRUCTED 3—FT FROM THE BACK OF CURB FOR ALL LOCATIONS WHERE THE SIDEWALK IS SHOWN OFFSET. REFER TO STREET DETAIL SHEET FOR SIDEWALK AND RAMP DETAILS.
- 4. NO PERMANENT STRUCTURES HIGHER THAN 3 FEET, AND LOWER THAN 8 FEET ABOVE THE PAVEMENT, INCLUDING STRUCTURES, WALLS, FENCES, AND VEGETATION, SHALL BE CONSTRUCTED OR ALLOWED WITHIN THE CLEAR VISION EASEMENT. CONTRACTOR SHALL GRADE AREAS WITHIN CLEAR VISION EASEMENTS SUCH THAT THE ELEVATION WITHIN THE CLEAR VISION EASEMENT IS NOT HIGHER THAN 3 FEET ABOVE THE ADJACENT TOP OF PAVEMENT.
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- 6. CHANGES IN THE SIDEWALK LOCATION FOR A MAXIMUM LINEAR DISTANCE OF TWO HUNDRED (200) FEET ARE PERMITTED TO BE APPROVED BY THE FIELD INSPECTOR WITHOUT AMENDING THE STREET PLAN OR UTILITY LAYOUT PER UDC SECTION 35-506 (Q)(6).
- 7. THE CONSTRUCTION OF SIDEWALKS ADJACENT TO ALL 900 SERIES LOTS WILL BE THE RESPONSIBILITY OF THE DEVELOPER AS SHOWN ON THE OVERALL SIGNAGE PLAN.

SPANISH TRAILS-UNIT 2 E/

S

3/26/2024

SO

PLAT NO. 22-11800121

JOB NO. 12044-05

DATE MARCH 2024

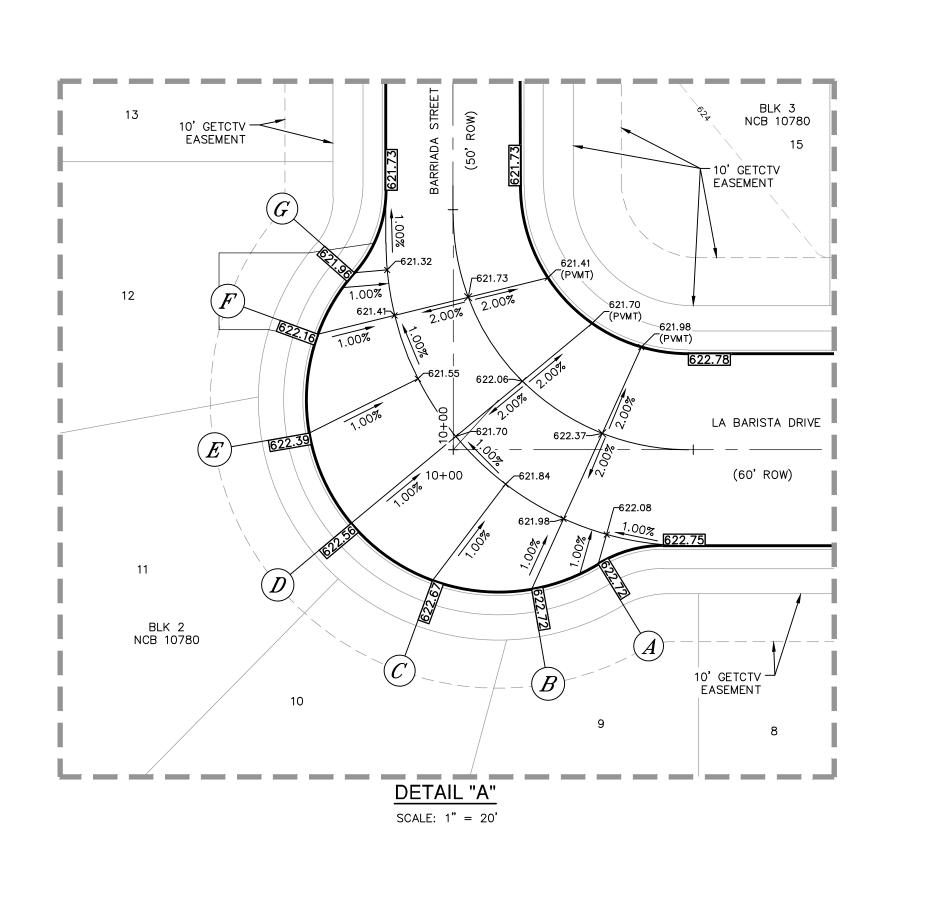
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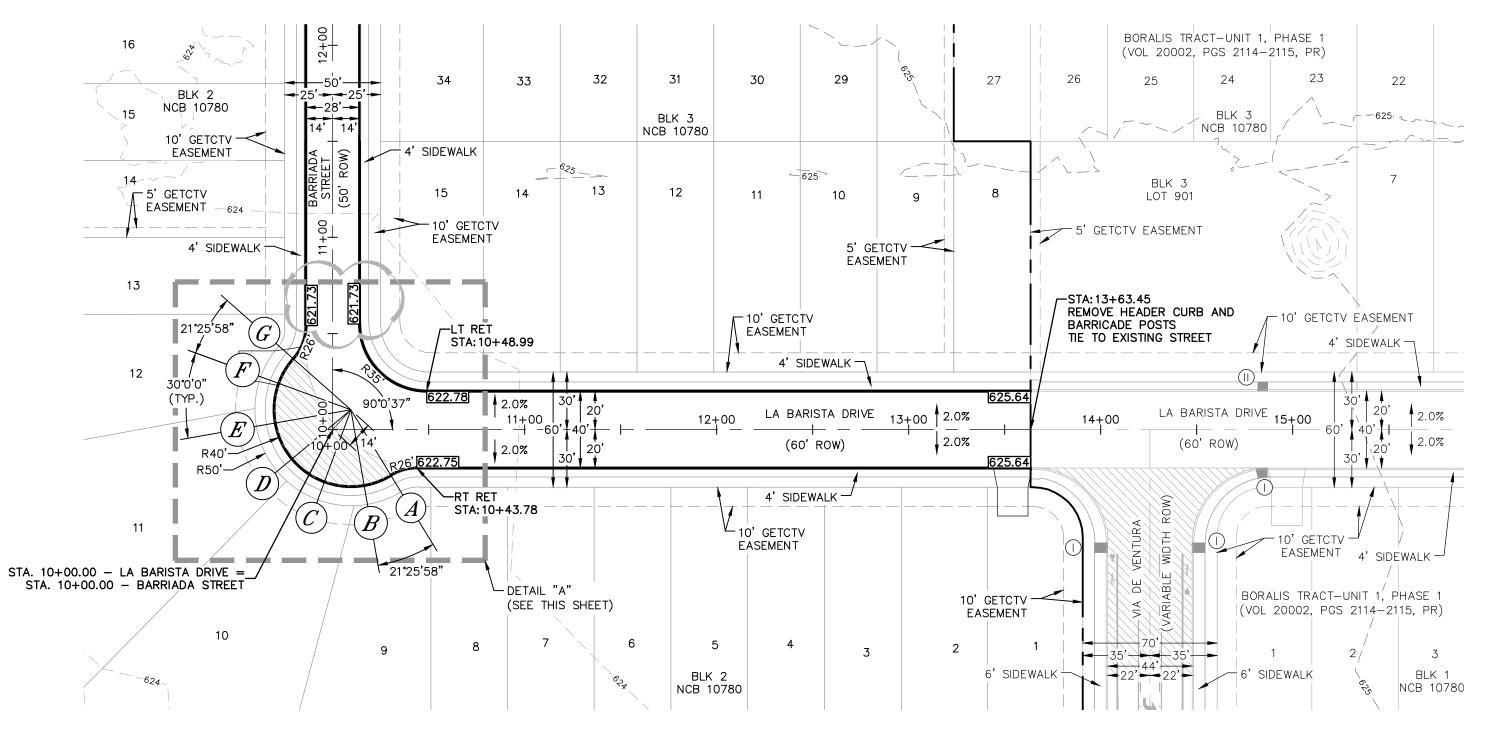
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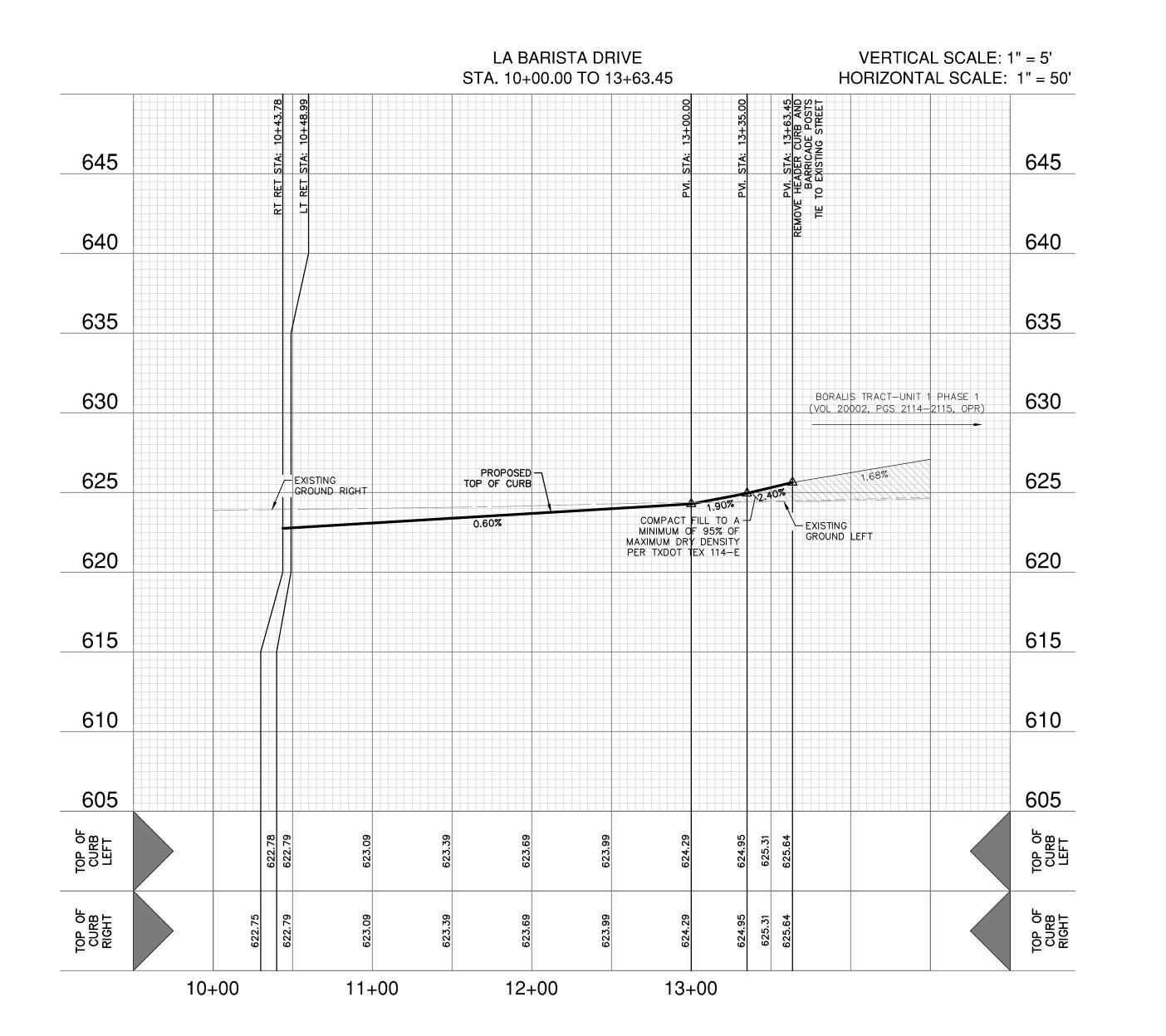
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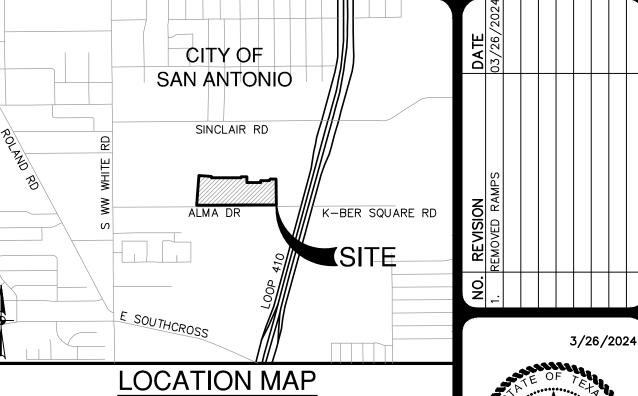
PLAN



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80

SCALE: 1"= 50' 0' 50' 100' 15

NOT-TO-SCALE

STREET LEGEND

STREET NOTES:

PROJECT LIMITS

WHEELCHAIR RAMP

POINT OF CURVATURE

PC

POINT OF TANGENCY

RETURN

RET

TOP OF CURB SPOT ELEVATION

WASHOUT CROWN SECTION

PROPOSED SIDEWALK [SW]
(HOMEBUILDER'S RESPONSIBILITY)

PROPOSED CONCRETE SIDEWALK [SW]
(CONTRACTOR'S RESPONSIBILITY)

PAPE-DAWS ENGINEERS SAN ANTONIO I AUSTIN I HOUSTON I FORT WORTH I 2000 NW LOOP 410 I SAN ANTONIO, TX 78213 I 210.3

ANISH TRAILS-UNIT 2 EAST SAN ANTONIO, TEXAS

LA BARISTA DRIVE PLAN AND PROFILE

SIDEWALKS SHALL BE CONSTRUCTED 3-FT FROM THE BACK OF CURB FOR ALL LOCATIONS WHERE THE SIDEWALK IS SHOWN OFFSET. REFER TO STREET DETAIL SHEET FOR SIDEWALK AND RAMP DETAILS.
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5. DRIVEWAYS SHOWN ON THIS PLAN ARE FOR THE SOLE PURPOSE OF INDICATING A POTENTIAL CONFLICT WITH CURB RAMP, DRAINAGE INFRASTRUCTURE, OR OTHER CONFLICT. DRIVEWAY LOCATION IS SUBJECT TO CHANGE BASED ON HOME SELECTION AND FINAL LOT DESIGN.

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2. CONTRACTOR SHALL MATCH EXISTING PAVEMENT AT TIE—IN. IF EXISTING PAVEMENT ELEVATION DIFFERS SIGNIFICANTLY, CONTRACTOR SHALL

NOTIFY THE ENGINEER PRIOR TO CONTINUING WORK.

ADJACENT TOP OF PAVEMENT.

RECOMMENDED BY THE ENGINEER ONCE THE ROADWAYS ARE

6. CHANGES IN THE SIDEWALK LOCATION FOR A MAXIMUM LINEAR DISTANCE OF TWO HUNDRED (200) FEET ARE PERMITTED TO BE APPROVED BY THE FIELD INSPECTOR WITHOUT AMENDING THE STREET PLAN OR UTILITY LAYOUT PER UDC SECTION 35-506 (Q)(6).

7. THE CONSTRUCTION OF SIDEWALKS ADJACENT TO ALL 900 SERIES LOTS WILL BE THE RESPONSIBILITY OF THE DEVELOPER AS SHOWN ON THE OVERALL SIGNAGE PLAN.

PLAT NO. 22-11800121

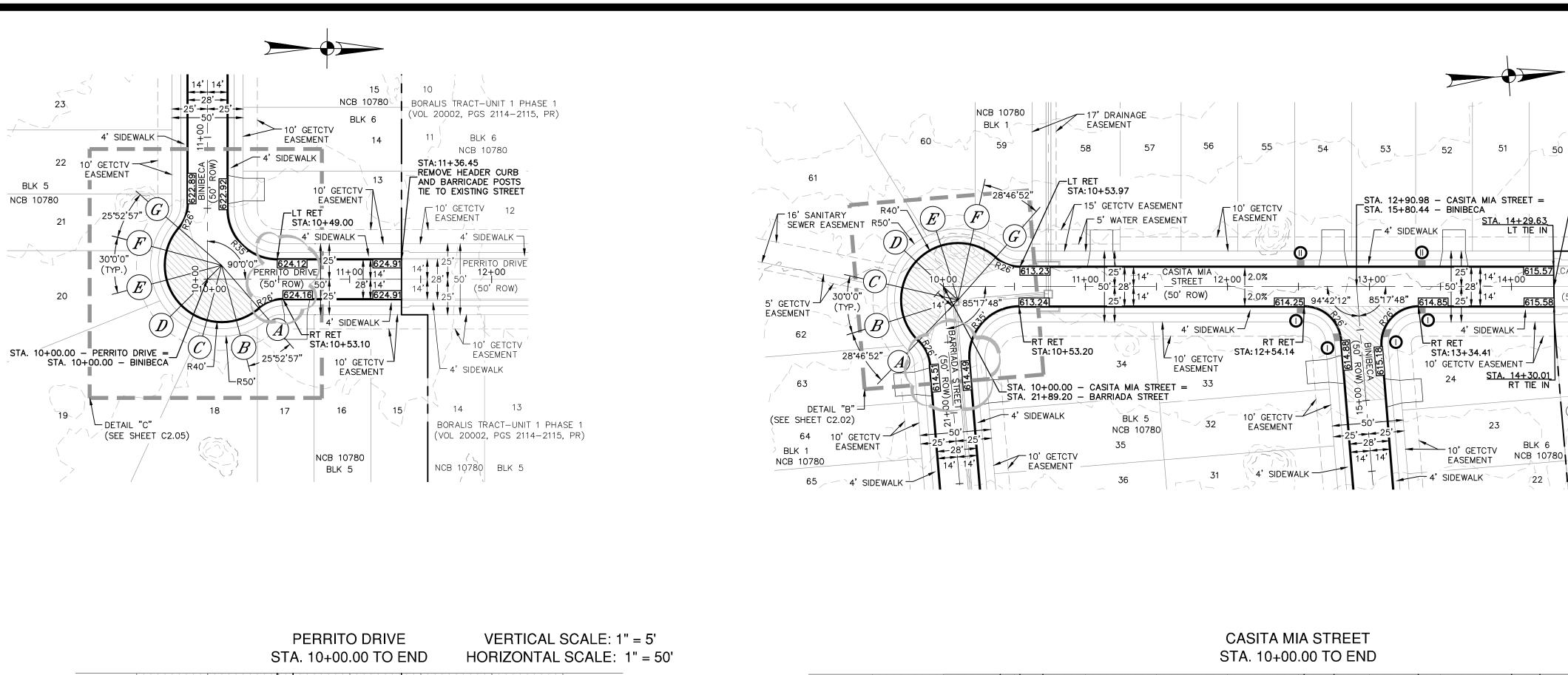
JOB NO. 12044-05

DATE MARCH 2024

DESIGNER AC

CHECKED DRAWN AC

SHEET C2.03



645

640

635

630

620

615

610

605

10+00

11+00

12+00

13+00

14+00

BORALIS TRACT-UNIT 1 PHASE 1

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GROUND RIGHT

TOP OF CURB

11+00

COMPACT FILL TO A — MINIMUM OF 95% OF MAXIMUM DRY DENSITY PER TXDOT TEX 114—E

(VOL 20002, PGS 2114-2115, PR)

645

640

635

630

625

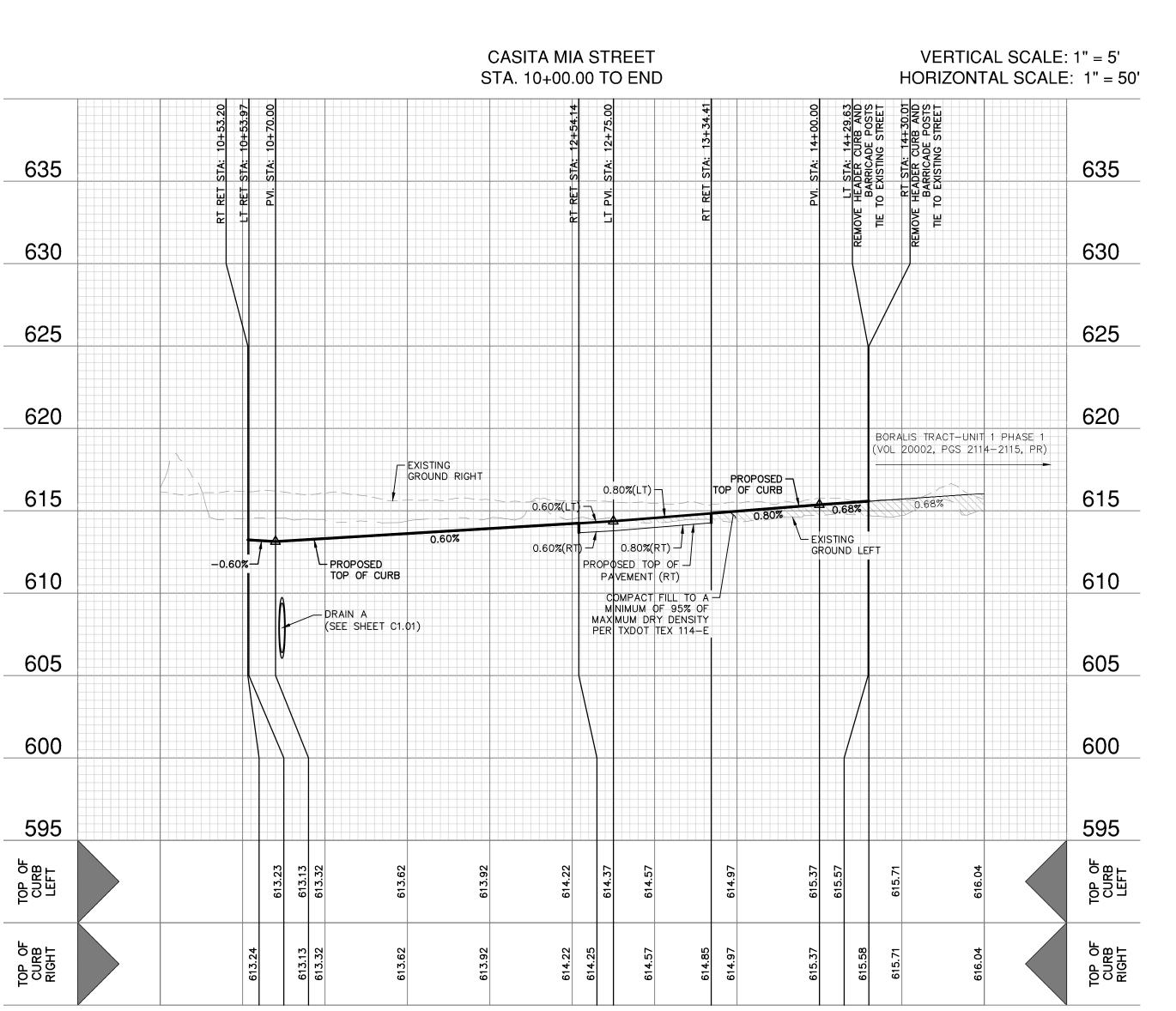
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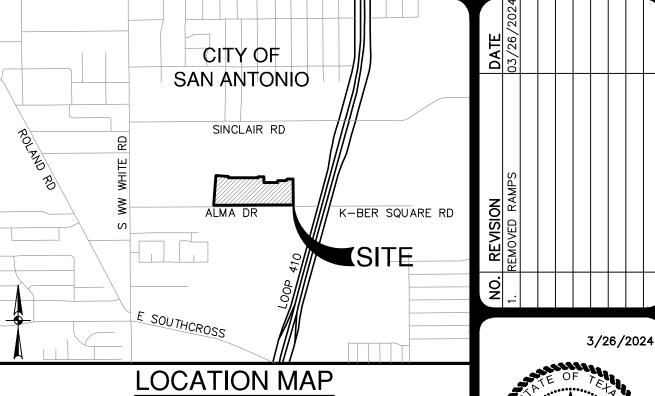
615

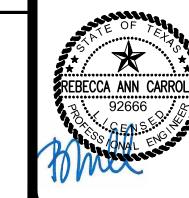
610

605

10+00







0

SCALE: 1"= 50'

NOT-TO-SCALE

STREET LEGEND

STREET NOTES:

NCB 10780 BLK 1

REMOVE HEADER CURB AND BARRICADE POSTS

TIE TO EXISTING STREET

/ EASEMENT

₁ 10' GETCTV

4' SIDEWALK ¬

4' SIDEWALK

V_10' GETCTV

EASEMENT

BLK $6 \frac{2}{3}$

NCB 10780

BLK 6

/22 \

BORALIS TRACT-UNIT 1 PHASE 1

(VOL 20002, PGS 2114-2115, PR)

49

√STA:14+29.82

BORALIS TRACT-UNIT 1 PHASE 1

(VOL 20002, PGS 2114-2115, PR)

PROJECT LIMITS	
PROJECT LIMITS	
WHEELCHAIR RAMP	①
POINT OF CURVATURE	PC
POINT OF TANGENCY	PT
RETURN	RET
TOP OF CURB SPOT ELEVATION	975.50
WASHOUT CROWN SECTION	
PROPOSED SIDEWALK [SW] (HOMEBUILDER'S RESPONSIBILITY)	
PROPOSED CONCRETE SIDEWALK [SW (CONTRACTOR'S RESPONSIBILITY)	
DRIVEWAY	

-UNIT SAN ANTONIO,

* & PERRIT(PROFILE

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MIA STREET PLAN AND I

PLAT NO.	22-11800121
JOB NO	12044-05
DATE	MARCH 2024
DESIGNER	AC
CHECKED_	DRAWNAC_

C2.04

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2. CONTRACTOR SHALL MATCH EXISTING PAVEMENT AT TIE—IN. IF EXISTING PAVEMENT ELEVATION DIFFERS SIGNIFICANTLY, CONTRACTOR SHALL

3. SIDEWALKS SHALL BE CONSTRUCTED 3-FT FROM THE BACK OF CURB FOR ALL LOCATIONS WHERE THE SIDEWALK IS SHOWN OFFSET. REFER

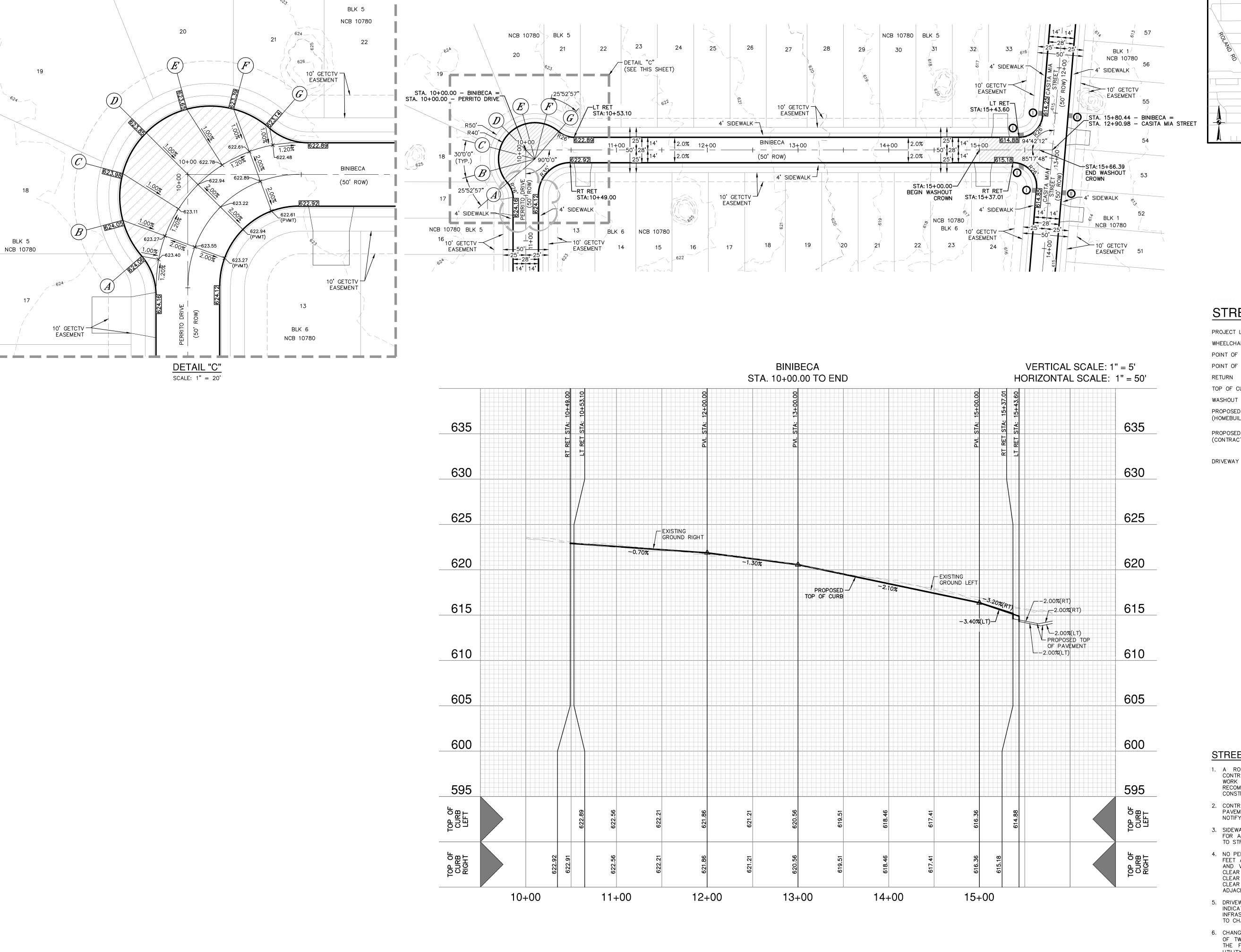
4. NO PERMANENT STRUCTURES HIGHER THAN 3 FEET, AND LOWER THAN FEET ABOVE THE PAVEMENT, INCLUDING STRUCTURES, WALLS, FENCES, AND VEGETATION, SHALL BE CONSTRUCTED OR ALLOWED WITHIN THE CLEAR VISION EASEMENT. CONTRACTOR SHALL GRADE AREAS WITHIN CLEAR VISION EASEMENTS SUCH THAT THE ELEVATION WITHIN TH CLEAR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

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

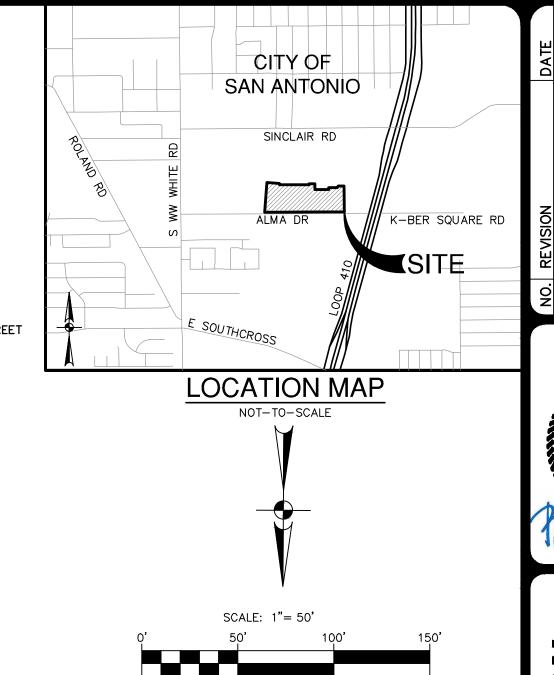
TO STREET DETAIL SHEET FOR SIDEWALK AND RAMP DETAILS.

NOTIFY THE ENGINEER PRIOR TO CONTINUING WORK.

ADJACENT TOP OF PAVEMENT.



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STREET LEGEND

PROJECT LIMITS

WHEELCHAIR RAMP

POINT OF CURVATURE

PC

POINT OF TANGENCY

RETURN

RET

TOP OF CURB SPOT ELEVATION

WASHOUT CROWN SECTION

PROPOSED SIDEWALK [SW]
(HOMEBUILDER'S RESPONSIBILITY)

PROPOSED CONCRETE SIDEWALK [SW]
(CONTRACTOR'S RESPONSIBILITY)

SH TRAILS-UNIT SAN ANTONIO, TEXAS

AN

BINIBECA PLAN AND PROFILE

AS

PAPE-DAWS

3/26/2024

STREET NOTES:

- A ROW PERMIT MUST BE OBTAINED BEFORE WORKING IN ROW. CONTRACTOR SHALL COORDINATE A TRAFFIC CONTROL PLAN FOR ALL WORK WITHIN THE ROW. ADDITIONAL WARNING SIGNS MAY BE RECOMMENDED BY THE ENGINEER ONCE THE ROADWAYS ARE CONSTRUCTED.
- 2. CONTRACTOR SHALL MATCH EXISTING PAVEMENT AT TIE—IN. IF EXISTING PAVEMENT ELEVATION DIFFERS SIGNIFICANTLY, CONTRACTOR SHALL NOTIFY THE ENGINEER PRIOR TO CONTINUING WORK.
- 3. SIDEWALKS SHALL BE CONSTRUCTED 3—FT FROM THE BACK OF CURB FOR ALL LOCATIONS WHERE THE SIDEWALK IS SHOWN OFFSET. REFER TO STREET DETAIL SHEET FOR SIDEWALK AND RAMP DETAILS.
- 4. NO PERMANENT STRUCTURES HIGHER THAN 3 FEET, AND LOWER THAN 8 FEET ABOVE THE PAVEMENT, INCLUDING STRUCTURES, WALLS, FENCES, AND VEGETATION, SHALL BE CONSTRUCTED OR ALLOWED WITHIN THE CLEAR VISION EASEMENT. CONTRACTOR SHALL GRADE AREAS WITHIN CLEAR VISION EASEMENTS SUCH THAT THE ELEVATION WITHIN THE CLEAR VISION EASEMENT IS NOT HIGHER THAN 3 FEET ABOVE THE ADJACENT TOP OF PAVEMENT.
- 5. DRIVEWAYS SHOWN ON THIS PLAN ARE FOR THE SOLE PURPOSE OF INDICATING A POTENTIAL CONFLICT WITH CURB RAMP, DRAINAGE INFRASTRUCTURE, OR OTHER CONFLICT. DRIVEWAY LOCATION IS SUBJECT TO CHANGE BASED ON HOME SELECTION AND FINAL LOT DESIGN.
- 6. CHANGES IN THE SIDEWALK LOCATION FOR A MAXIMUM LINEAR DISTANCE OF TWO HUNDRED (200) FEET ARE PERMITTED TO BE APPROVED BY THE FIELD INSPECTOR WITHOUT AMENDING THE STREET PLAN OR UTILITY LAYOUT PER UDC SECTION 35-506 (Q)(6).
- 7. THE CONSTRUCTION OF SIDEWALKS ADJACENT TO ALL 900 SERIES LOTS WILL BE THE RESPONSIBILITY OF THE DEVELOPER AS SHOWN ON THE OVERALL SIGNAGE PLAN.

PLAT NO. 22-11800121

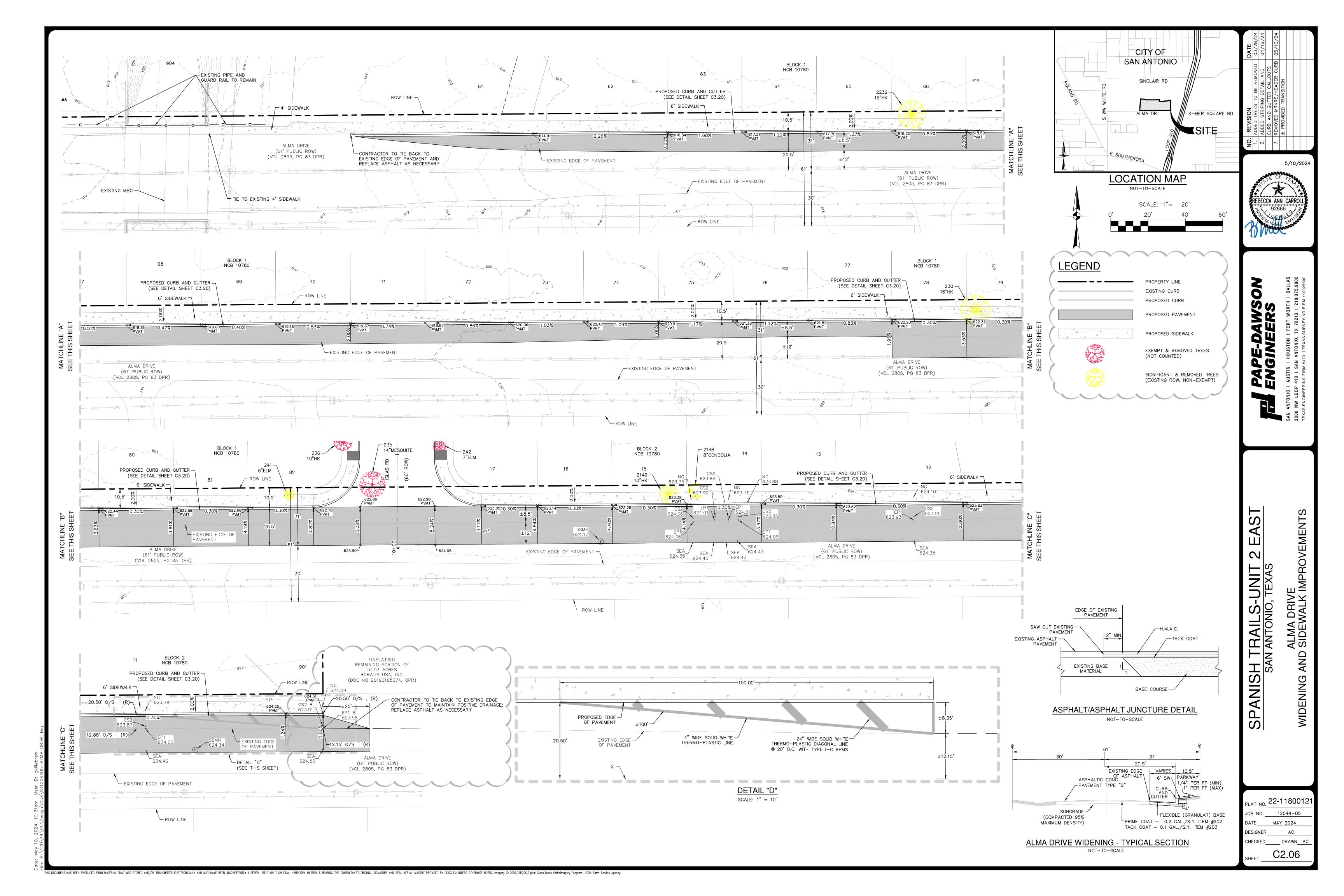
JOB NO. 12044-05

DATE MARCH 2024

DESIGNER AC

CHECKED DRAWN AC

C2.05



RECOMMENDED PAVEMENT SECTION

DESIGN BASED ON THE MINIMUM REQUIREMENTS OF THE UDC AND THE GEOTECH ENGINEERING REPORT PREPARED BY INTEC, PROJECT NO. S201498-P DATED JANUARY 31, 2021. FOR PAVEMENT MATERIAL AND CONSTRUCTION REQUIREMENTS, CONTRACTOR SHALL MEET OR EXCEED ALL PAVEMENT RECOMMENDATIONS.

CONSTRUCTION REQUIREMENTS, CON	INACTOR SHALL	WILL! ON LACEL	D ALL I AVENIENT	RECOMMENDA	110113.
Classification	SURFACE COURSE TXDOT	TYPE "C" HMAC SURFACE COURSE TXDOT ITEM 340, in.	AGGREGATE BASE, in TYPE A1-2 TXDOT ITEM 247	STABILIZED	STRUCTURAL NUMBER
(1) LOCAL A					
BARRIADA STREET ISLAS RD (STA. 11+91.58 TO END) CASITA MIA STREET BINIBECA PERRITO DRIVE	2.0	-	10.0	6*	2.28
(2) LOCAL B					
ISLAS RD (STA. 10+00.00 TO 11+91.5 LA BARISTA DRIVE ALMA DRIVE	58) _{3.0}	_	19.0	6*	3.98

SUBGRADE NOTES (*):

- BASED ON THE SOILS ENCOUNTERED IN THE BORINGS, BROWN CLAY OR TAN MARL ARE ANTICIPATED IN THE PAVEMENT. SUBGRADE AREAS.
- WE ANTICIPATE THE FINAL PAVEMENT SUBGRADE PLASTICITY INDEX VALUE TO BE EITHER LESS THAN OR EQUAL TO 20 OR GREATER THAN 20.
- SUBGRADE TREATMENT IS NOT NEEDED IF:
- •• THE FINAL PAVEMENT SUBGRADE PLASTICITY INDEX VALUES ARE LESS THAN OR EQUAL TO 20 OR ANY SURFICIAL CLAYS ARE REMOVED AND REPLACED WITH FILL MATERIAL WITH PLASTICITY INDEX VALUES LESS THAN OR
- EQUAL TO 20. SUBGRADE TREATMENT, TO A DEPTH OF 6 INCHES, IS NEEDED IF:
- THICKER CLAY (PLASTICITY INDEX VALUES GREATER THAN 20) STRATUM IS ENCOUNTERED.
- THE SUBGRADE SOILS SHOULD BE TESTED FOR SOIL SULFATE CONTENT PRIOR TO TREATMENT. IF THE SOIL SULFATE CONTENT IS OVER 3000 PPM, AN ALTERNATE PROCEDURE WILL BE NEEDED.
- LIME APPLICATION RATE (5 PERCENT) 27 LBS PER SQ YARD FOR 6 INCH DEPTH OF TREATMENT MAY BE USED. CEMENT MAY BE USED IN LIEU OF LIME. PLEASE CONTACT INTEC TO DETERMINE THE CEMENT APPLICATION RATE AT THE TIME OF CONSTRUCTION.

GENERAL NOTES (**):

- INPUT PARAMETERS USED IN PAVEMENT SECTION CALCULATIONS ARE SHOWN IN TABLE NO. 7. PLEASE CALL US TO PROVIDE PAVEMENT RECOMMENDATIONS, IF NEEDED, FOR DIFFERENT INPUT VALUES.
- IF REPETITIVE TRUCK OR HEAVY TRUCK TRAFFIC IS ANTICIPATED, PLEASE CONTACT US FOR REVISED PAVEMENT RECOMMENDATIONS.
- PAVEMENT SECTION RECOMMENDATIONS ARE BASED ON A SUBGRADE CBR VALUE OF 4.0. THE PAVEMENT RECOMMENDATIONS ARE NOT BASED ON THE SHRINK / SWELL CHARACTERISTICS OF THE UNDERLYING SOILS. THE PAVEMENT CAN EXPERIENCE CRACKING AND DEFORMATION DUE TO SHRINKAGE AND SWELLING CHARACTERISTICS OF THE SOILS AS DESCRIBED IN THE VERTICAL MOVEMENTS SECTION OF THIS REPORT.
- IF WATER IS ALLOWED TO GET UNDERNEATH THE ASPHALT OR IF MOISTURE CONTENT OF THE BASE OR SUBGRADE CHANGES SIGNIFICANTLY, THEN PAVEMENT DISTRESS WILL OCCUR. MOISTURE PENETRATION UNDERNEATH THE ASPHALT PAVEMENT SURFACE MAY BE REDUCED BY INSTALLING A VERTICAL MOISTURE BARRIER, SUCH AS DEEPER CURBS; CURBS EXTENDING A MINIMUM OF 6 INCHES INTO SUBGRADE.

FILL MATERIAL:

- FILL USED TO RAISE THE GRADE APPROVED FILL MATERIAL SHOULD HAVE A MINIMUM CBR VALUE OF 4.0 AND A MAXIMUM PLASTICITY INDEX VALUE OF 20. LIME OR CEMENT APPLICATION RATES SHOULD BE RE-EVALUATED AND TESTED FOR SOIL SULFATE CONTENT PRIOR TO USE OF THE FILL MATERIAL.
- THE FILL MATERIAL SHOULD BE APPROVED BY THE GEOTECHNICAL ENGINEER, FREE OF DELETERIOUS MATERIAL, AND THE GRAVEL SIZE SHOULD NOT EXCEED 3 INCHES IN SIZE. THE MATERIAL SHOULD BE PLACED AND COMPACTED AS PER APPLICABLE CITY / COUNTY GUIDELINES.

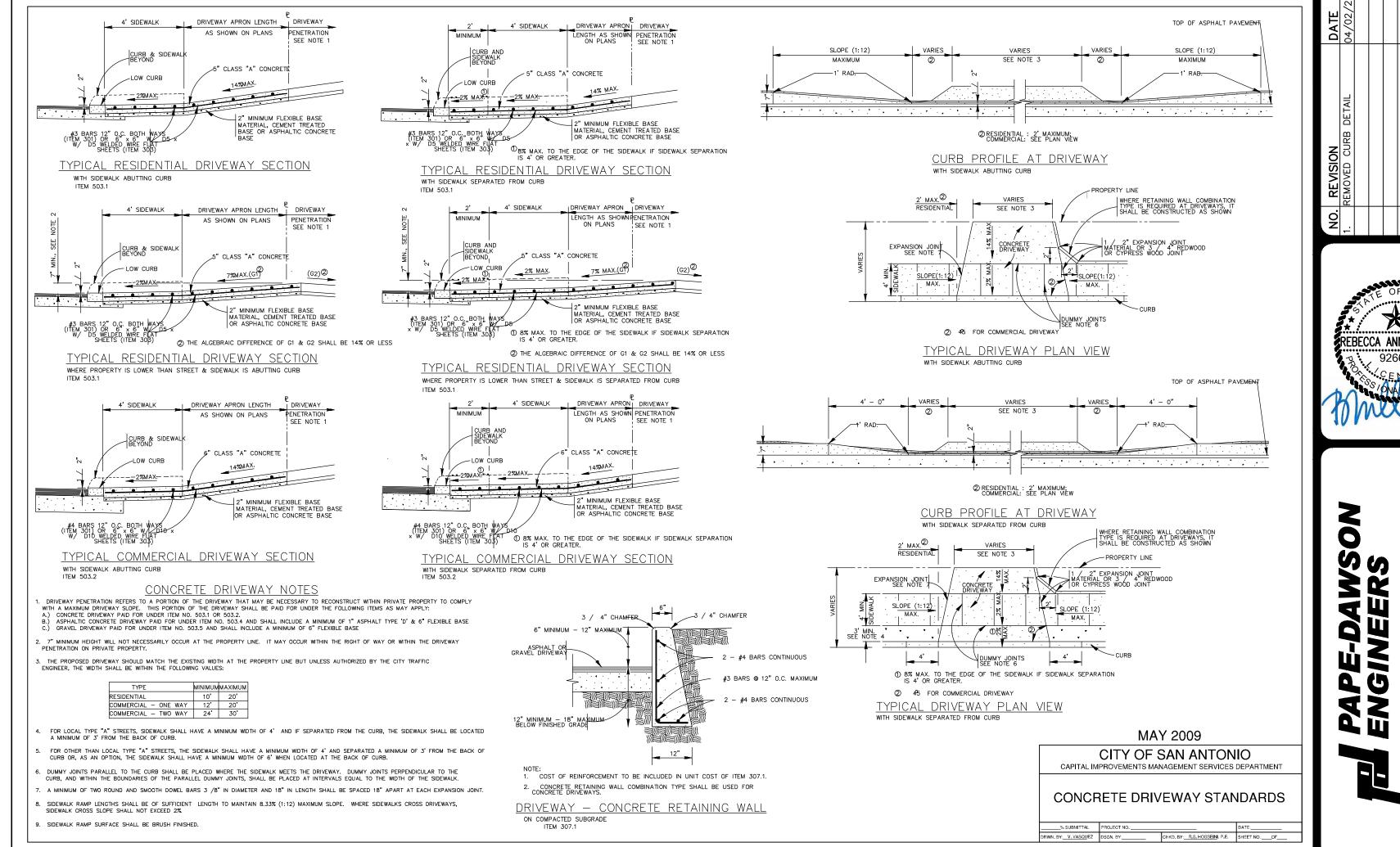
SUBGRADE VERIFICATION:

• AT THE TIME OF CONSTRUCTION, THE FINAL PAVEMENT SUBGRADE SHOULD BE OBSERVED AND VERIFIED BY A REPRESENTATIVE OF INTEC.

GENERAL NOTES:

THE SUBGRADE IS CUT/FILLED TO THE PROPER GRADE.

- 1. PAVEMENT DESIGN THICKNESS BASED ON GEOTECHNICAL REPORT. SEE TABLE FOR STRUCTURAL NUMBER CALCULATION. REFERENCE PROJECT GEOTECHNICAL REPORT AND PROJECT SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS AND ALTERNATE PAVEMENT SECTIONS.
- 2. A GEOTECHNICAL ENGINEERING REPRESENTATIVE SHALL BE RETAINED TO: (1) OBSERVE THE SITE PREPARATION AND SUBGRADE OPERATIONS; (2) EVALUATE THE ACTUAL SUBGRADE MATERIAL CLASSIFICATION; AND (3) VERIFY THAT RECOMMENDATIONS ARE FOLLOWED. THE ACTUAL SUBGRADE CONDITION AT A PARTICULAR LOCATION WILL NEED TO BE EVALUATED DURING CONSTRUCTION ONCE
- 3. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING MATERIAL TESTING. TESTING TO BE PAID
- 4. CONTRACTOR MAY LEAVE VERTICAL CUT BANKS AT R.O.W. LINE AND MEDIANS PROVIDED PROJECT GEOTECHNICAL ENGINEER DETERMINES ROCK IS COMPETENT TO STAND ON ITS OWN.
- 5. IF ALTERNATE PAVEMENT SECTION CHOSEN, BEXAR COUNTY SHALL BE PROVIDED WITH REVISED CONSTRUCTION PLANS INDICATING SELECTED PAVEMENT DESIGN PRIOR TO CONSTRUCTION.
- 6. PAVEMENT SECTIONS ARE SUBJECT TO CHANGE DUE TO RETESTING OF SOIL AFTER STREET EXCAVATION HAS BEEN DONE TO TOP OF CURB.
- 7. CONTRACTOR SHALL CONTACT ENGINEER 24 HRS IN ADVANCE FOR FIELD OBSERVATION DURING STREET CONSTRUCTION. CONTRACTOR WILL BE REQUIRED TO CONTACT ENGINEER FOR INSPECTION OF THE SUBGRADE, BASE, ASPHALT, AND CURB.



4/16/2024

rebecca ann carroi

NO 22-1180012

APRIL 2024

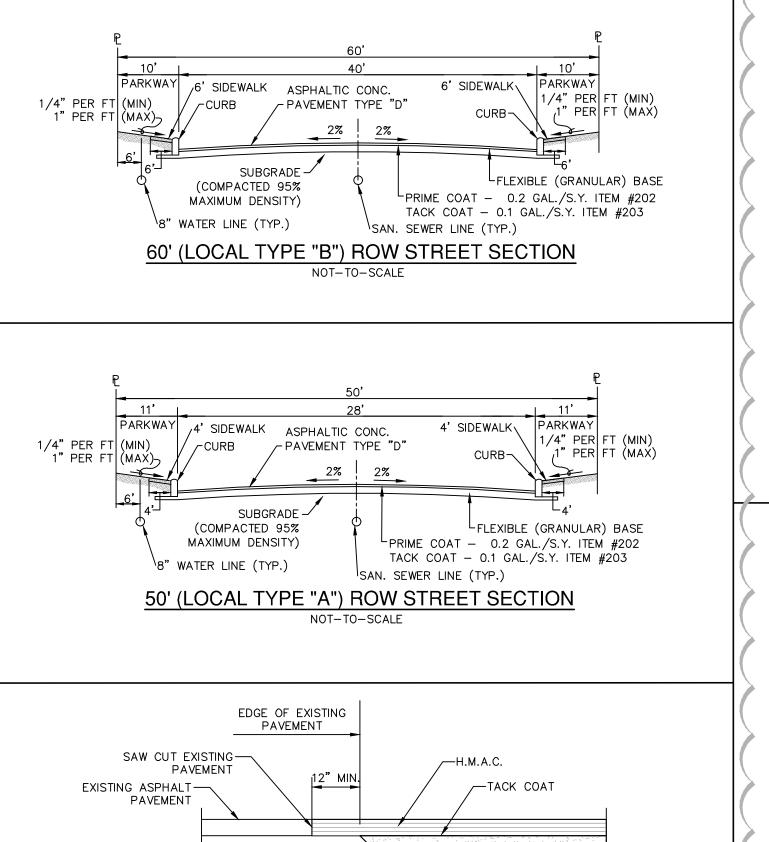
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12044-05

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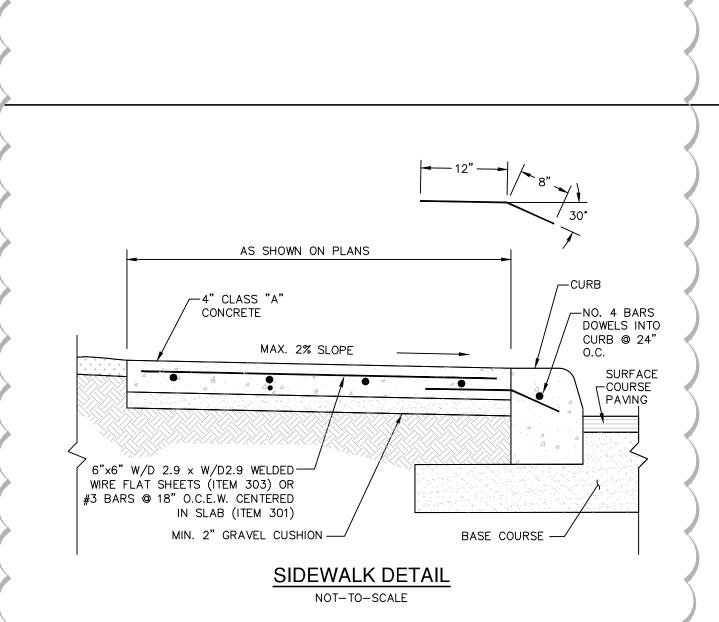
BASE COURSE-

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ASPHALT/ASPHALT JUNCTURE DETAIL

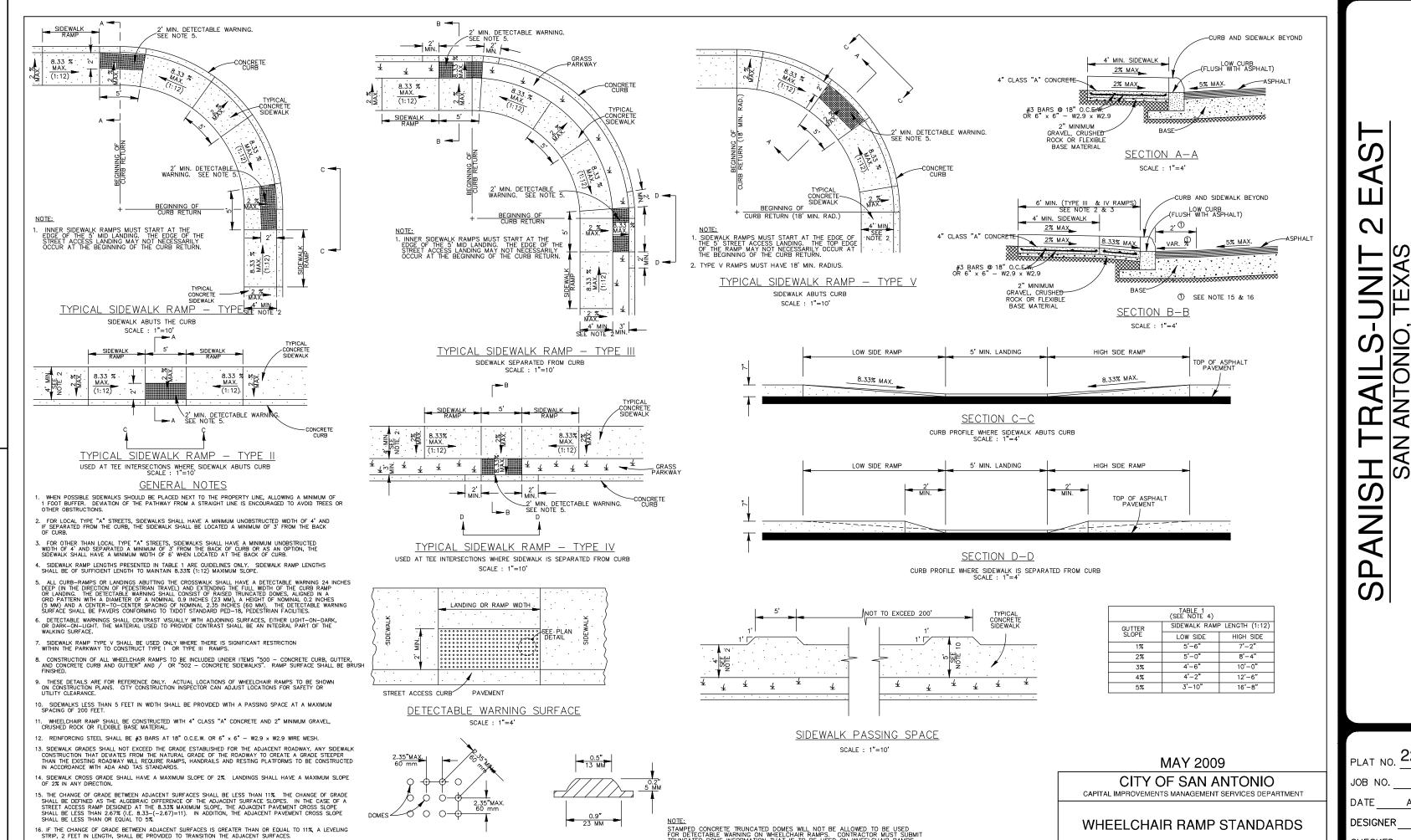
NOT-TO-SCALE

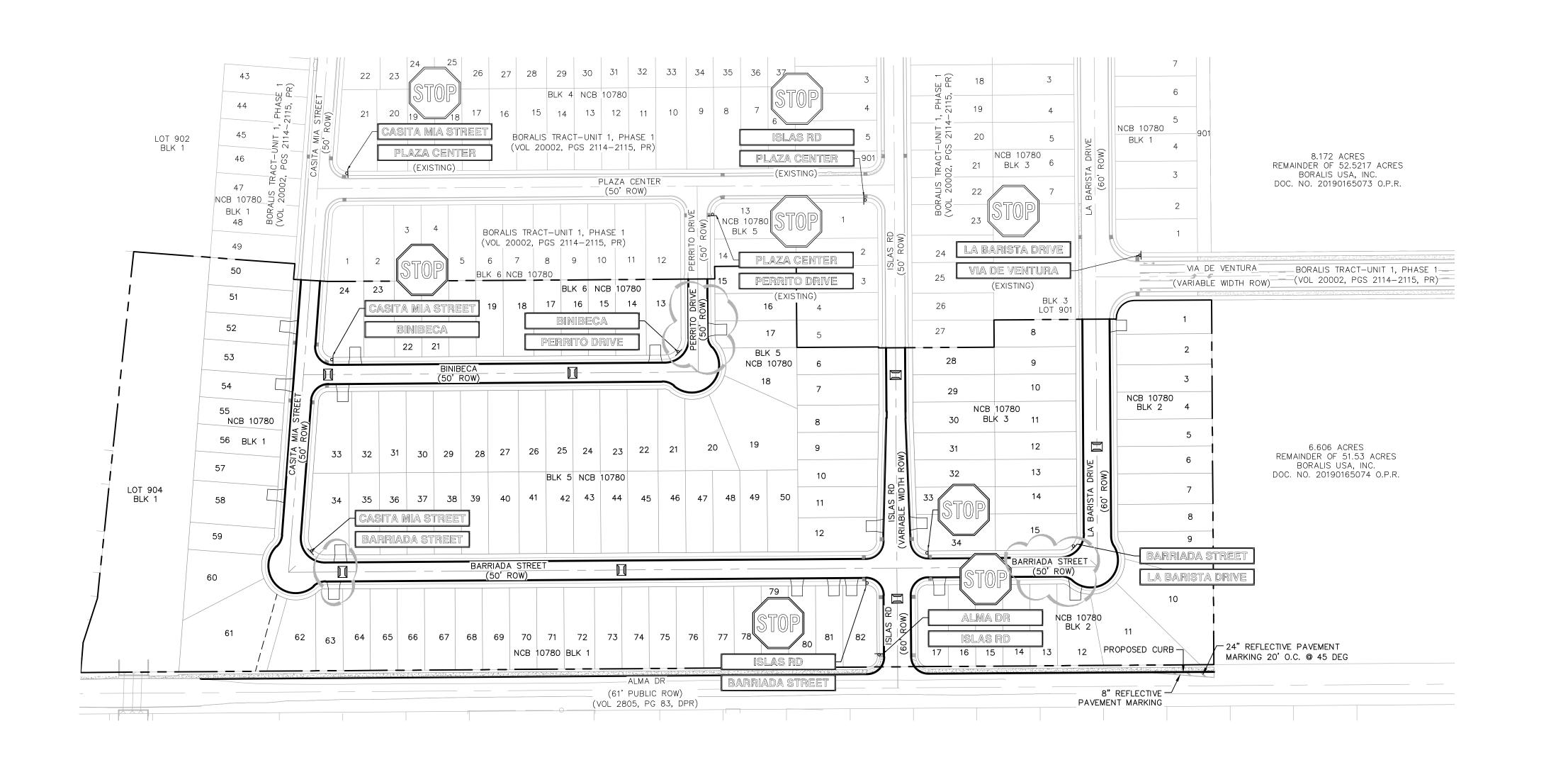
EXISTING BASE



7. ADA COMPLIANCE IN ALTERATIONS INCLUDE ONLY THAT WORK WITHIN THE LIMITS, BOUNDARIES OR SCOPE

<u>PLAN DETAIL</u>







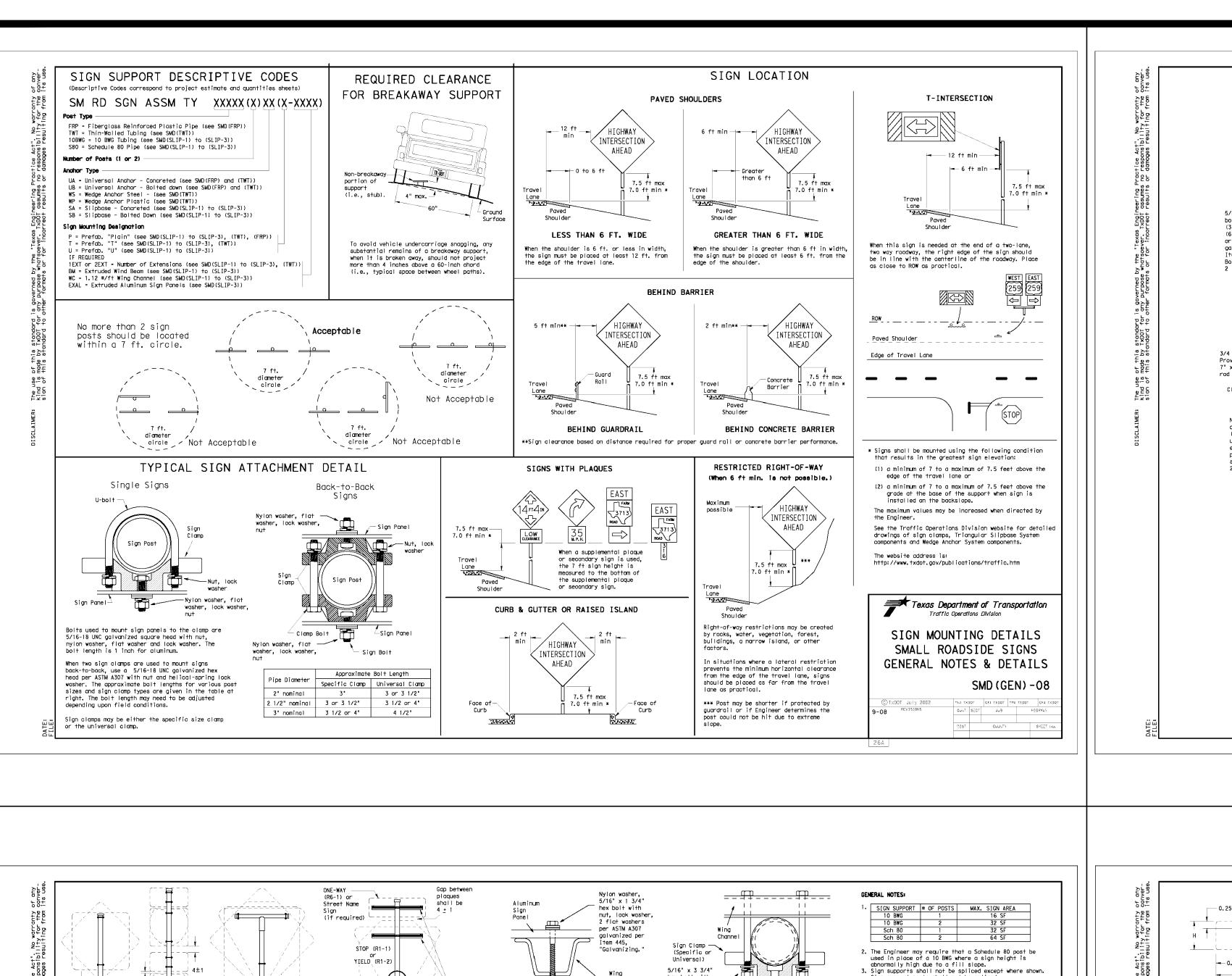
CITY OF SAN ANTONIO

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

EAST

SPANISH TRAILS-UNIT SAN ANTONIO, TEXAS

PLAT NO. 22-1180012 JOB NO. 12044-05 DATE MARCH 2024 DESIGNER CHECKED____ DRAWN_AC $_{\text{SHEET}}$ C3.00



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

per ASTM A307

Detail F

Nylon washer, 5/16" x 1 3/4" hex bolt with

nut, lock washer,

2 flat washers per ASTM A307

galvanized per Item 445,

"Galvanizina."

5/16" x 3/4"

hex bolt with

aalvanized per

"Galvanizing.'

Detail C

nut, lock washer

and 2 flat washers per ASTM A307

TOP VIEW

Extruded

Aluminum Windbeam

Universal)

Detail D

FRICTION CAP DETAIL

Pipe O.D.

-.025"±.010"

Pipe O.D.

+.025"±.010"

(see SMD(2-1)

(through) after

washers and

lock washer. Extender ____

bolt, nut, 2 flat

Extruded Alum. Windbeam

8 Inch piece

Detail A

Sign Panel

(See SMD(2-1))

PLAQUE = 1 - variable length

& 1 - 32 inch piece

—1.12 #/ft Wing Channel

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

SIDE VIEW

3/8" x 3 1/2" square

per ASTM A307 galvanized

"Galvanizing." (Bolt

head bolt, nut, flat

er Item 445

length may vary depending on sign clamp type and

pipe diameter.

Variation

Rolled Crimp to

(See Note 11)

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

All dimensions are in english

unless detailed otherwise.

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

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

nut. lock washer

Splices shall only be allowed behind the sign substrate.

galvanized per Item 445, "Galvanizing."

Top View

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

Item 445 "Galvanizing."

🛚 🖌 A307 galvanized per

U-Bracket

Friction caps may be manufactured from hot rolled

or cold rolled steel sheets. The minimum sheet metal

The rim edges shall be reasonably straight and

thickness shall be 24 gauge for all cap sizes.

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

have no tendency to rock when seated on the pipe.

The depth shall be sufficient to give positive

protection against entrance of rainwater. They

shall be free of sharp creases or indentations

Caps shall have an electrodeposited coating of

zinc in accordance with the requirements of ASTM

and show no evidence of metal fracture.

B633 Class FE/ZN 8.

bolt with nut, lock washer

and 2 flat washers per ASTM

1/2" x 4" heavy

Item 445, "Galvanizing."

Detail

Universal)

washer and 2 flat washers per ASTM A307 galvanized per

Detail B

Sign support posts shall not be spliced.

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

5. Signs that require specific supports due to reasons

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

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

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

when impacted by an errant vehicle.

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

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

off so that it does not extend beyond the sign panel

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

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

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

bottom of sign when possible.

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

REQUIRED SUPPOR

SIGN DESCRIPTION

48-inch STOP sign (R1-1)

60-inch YIELD sign (R1-2)

48x60-inch signs

48x60-inch signs

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

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

48x48-inch signs (diamond or square)

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

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

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

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

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

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

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

TY 10BWG(1)XX(T)

TY S80(1)XX(T)

TY 10BWG(1)XX(T)

TY S80(1)XX(T)

TY 10BWG(1)XX(T)

TY 10BWG(1)XX(T)

TY 10BWG(1)XX(T)

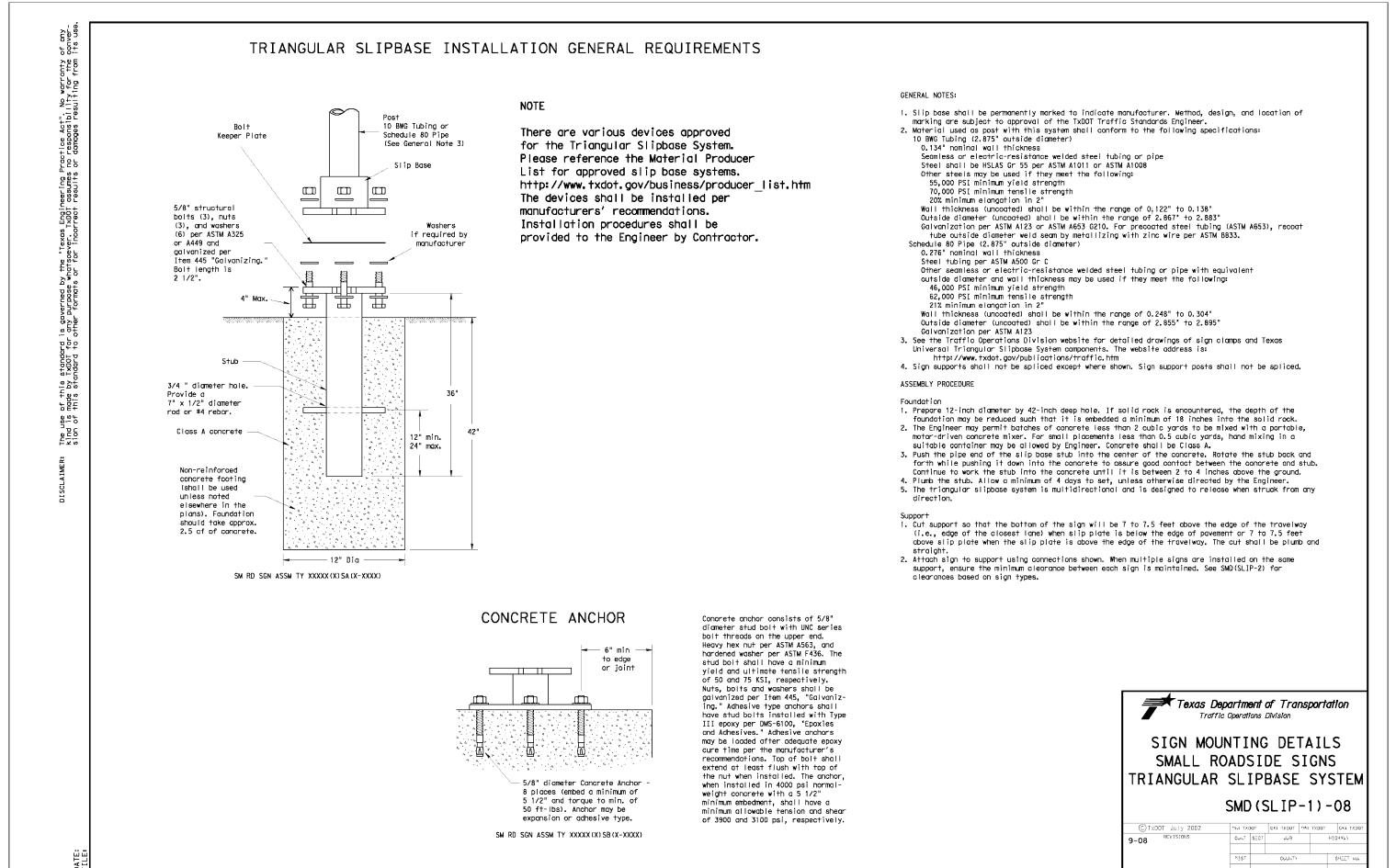
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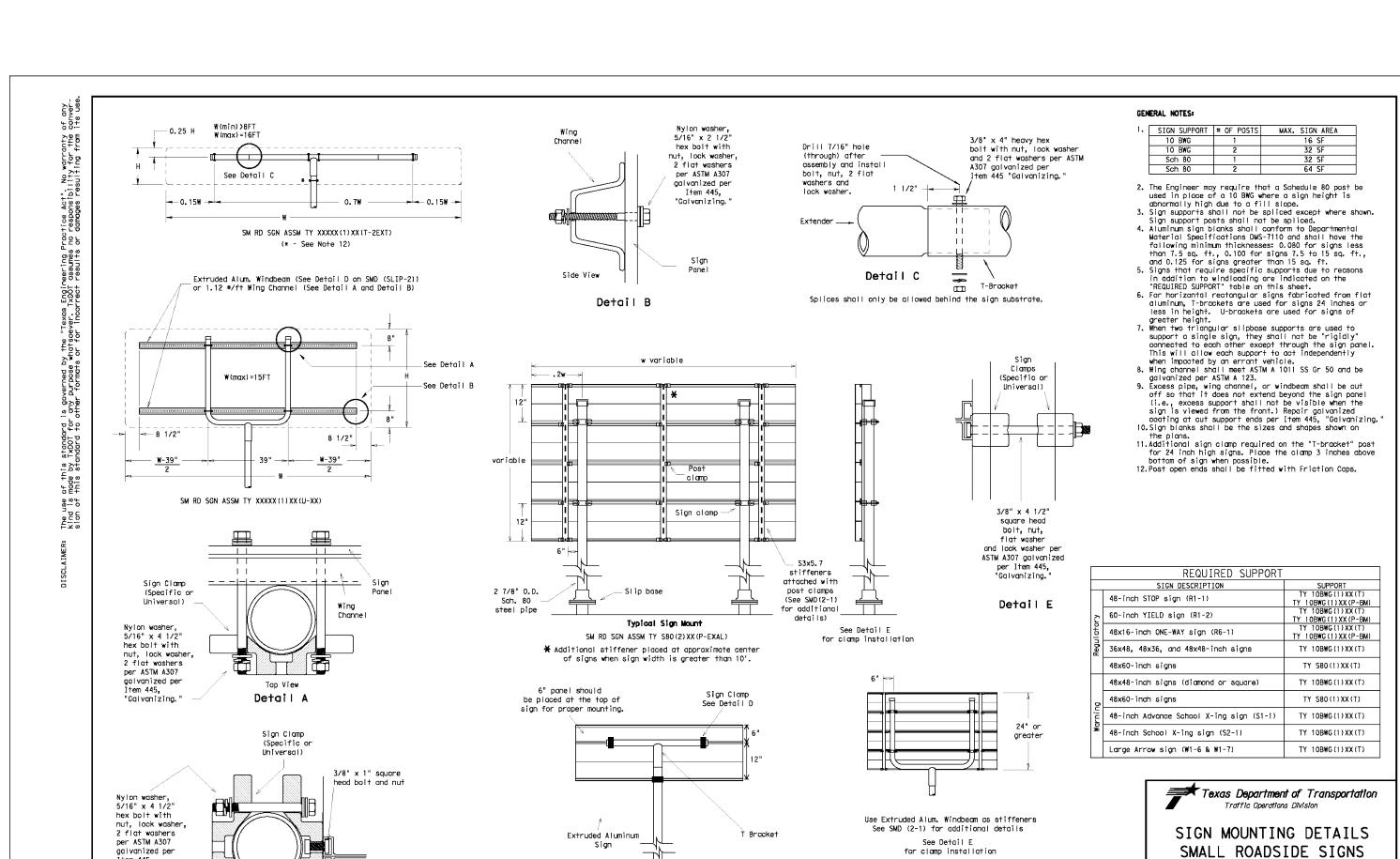
**Texas Department of Transportation

SIGN MOUNTING DETAILS

SMALL ROADSIDE SIGNS

TRIANGULAR SLIPBASE SYSTEM





2 7/8" O.D.

steel pipe

Extruded Aluminum Sign

With T Bracket

Aluminum Panel

EXTRUDED ALUMINUM SIGN WITH T BRACKET



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 \Box \leftarrow

IGNAGE SHEET

12/4/2023

ebecca ann carroi

_{NO} 22-1180012 12044-05 DRAWN A

DATE DECEMBER 2023 DESIGNER

1 ± 1/2

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

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

W(max)=8FT

0.6W - 0.2W -

— 0.25 H

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

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

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

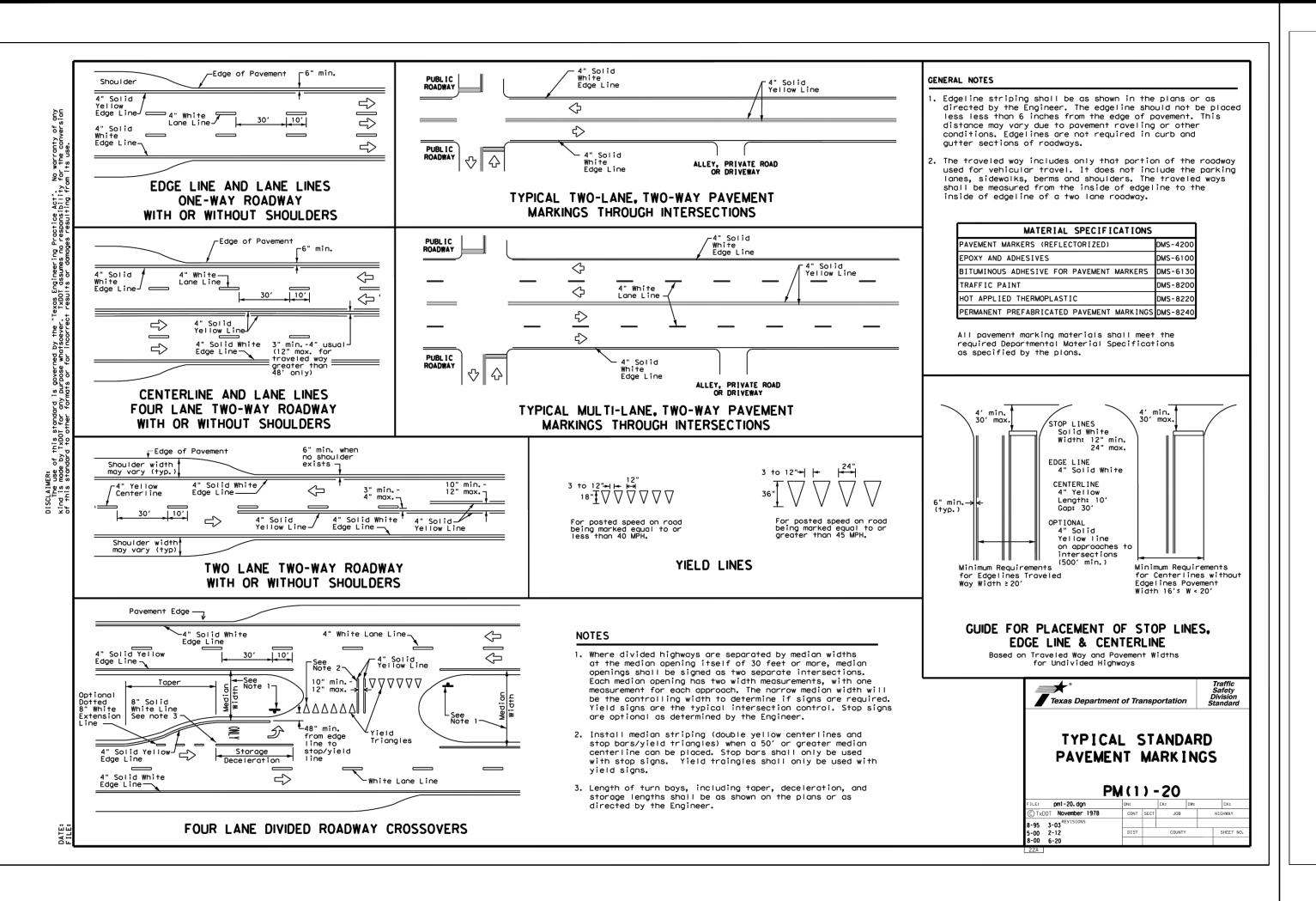
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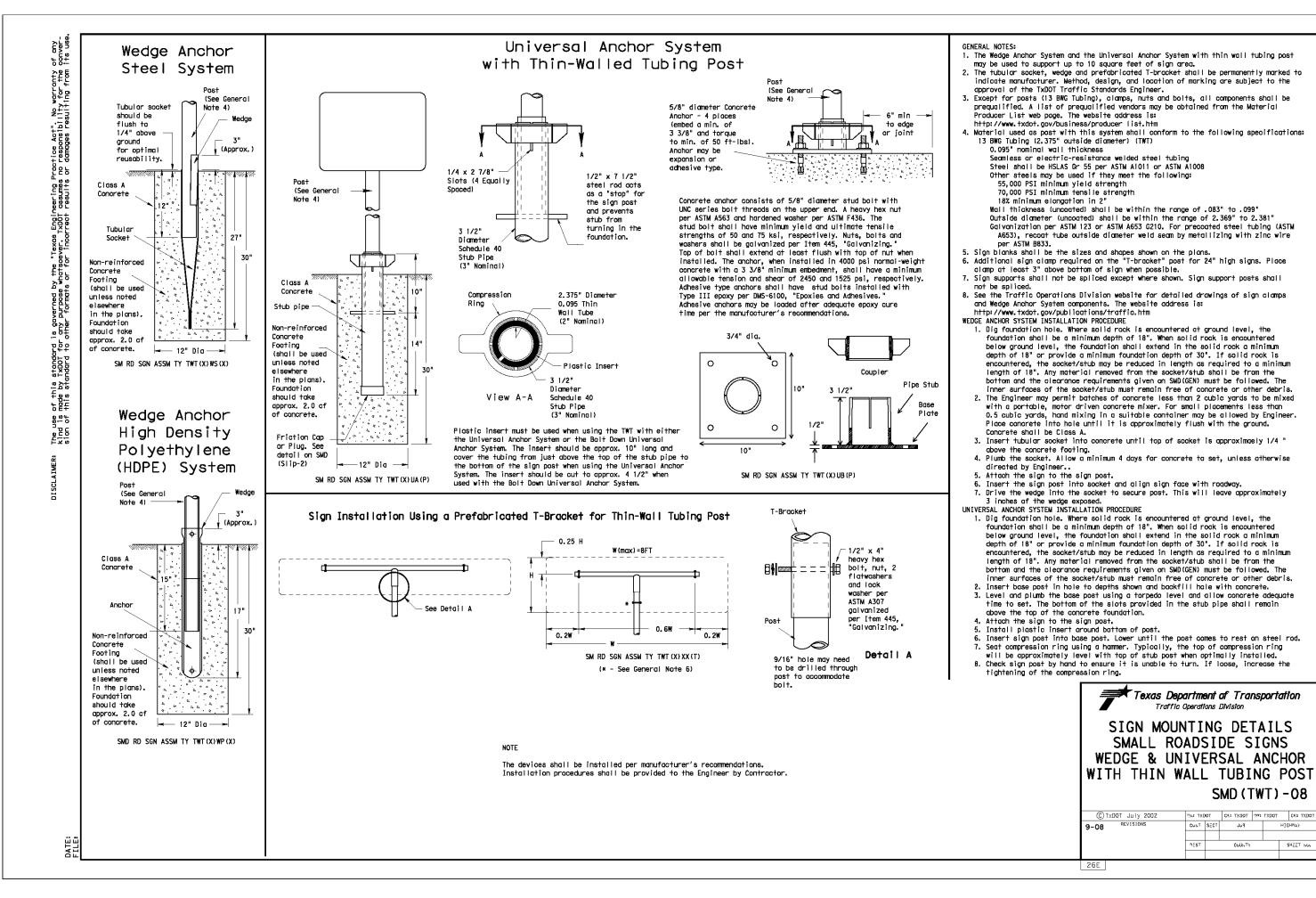
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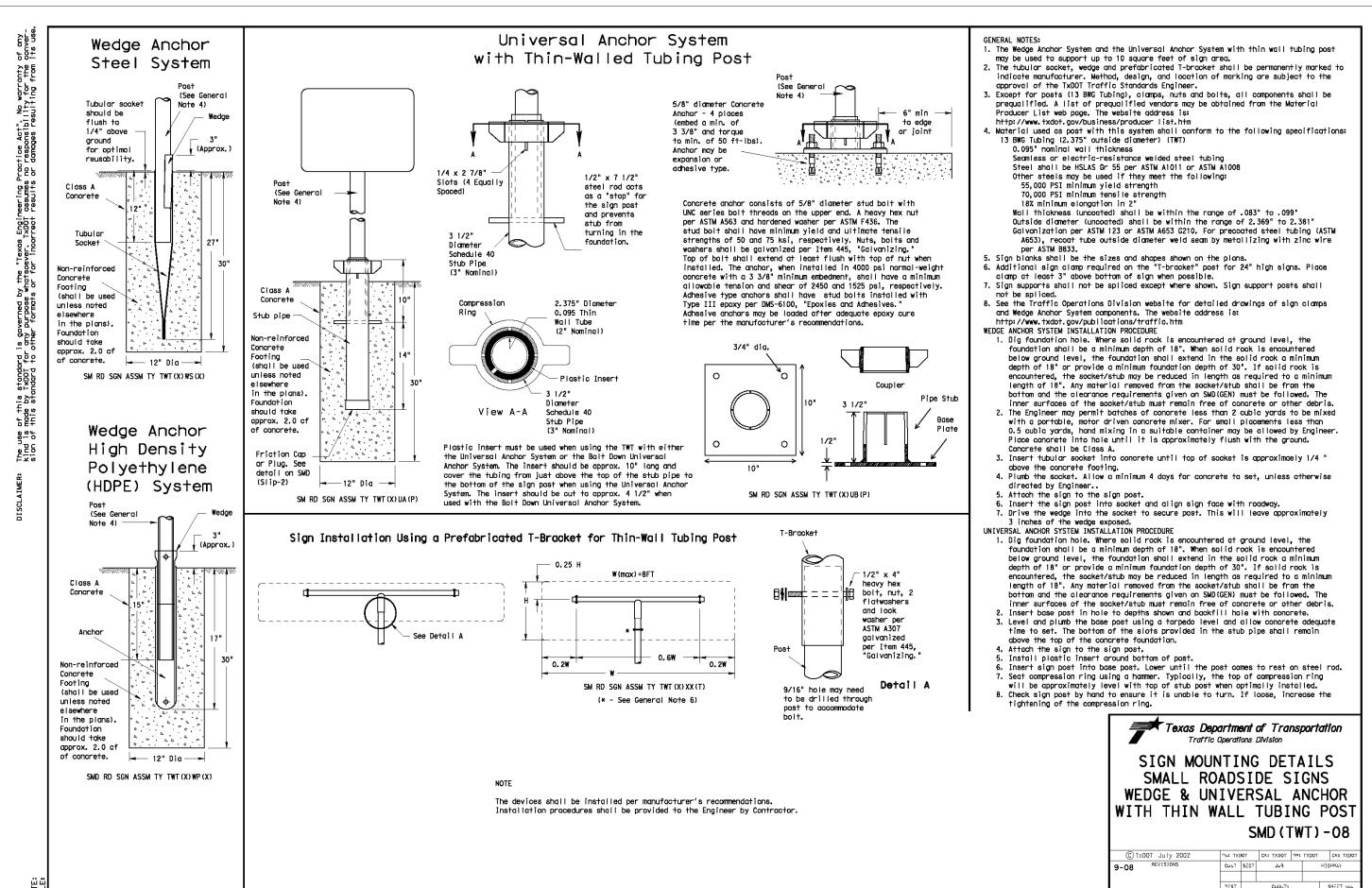
RIANGULAR SLIPBASE SYSTEM

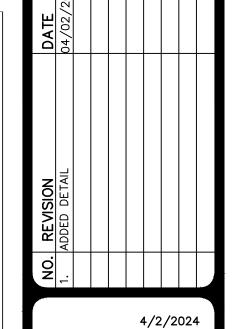
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SHEET









Rebecca ann Carrol 92666

1. Materials shall conform to the requirements of Departmental Material Specification DMS-4410 and will be furnished in a yellow or gray color as

I. Dig foundation hole. Where solid rock is encountered at ground level, the foundation shall be a minimum depth of 18". When solid rock is encountered below ground level, the foundation shall extend in the solid rock a minimum depth of 18" or provide a minimum foundation depth of 30". If solid rock is encountered, the socket/stub may be reduced in length as required to a minimum length of 18°. Any material removed from the socket/stub shall be from the bottom and the clearance requirements given on SMD(GEN) must be followed. The inner surfaces of the socket/stub must remain free of concrete

3. Insert base post in foundation hale to depths shown and fill hole with concrete. Cut base post from bottom and ensure a minimum of 18" embedment if installed in solid rock. 4. Level and plumb the base post with coupler using a torpedo level and let

6. Insert sign post into base post. Lower until the post comes to rest on the 7. Use hammer to ensure the coupler is firmly seated. Top of coupler should be

2. Drill holes into concrete and insert the 5/8" diameter bolts with wedge anchors, and tighten nuts.

4. Insert bottom of sign post into pipe stub.5. Use hammer to ensure the coupler is firmly seated. Top of coupler should be level with top of base post in most instances. 6. Check sign to ensure there is no twist. If loose, increase the tightening of

> **Texas** Department of Transportation SIGN MOUNTING DETAILS SMALL ROADSIDE SIGNS UNIVERSAL ANCHOR SYSTEM WITH FRP POST

SMD (FRP) -08

12044-05 DESIGNER DRAWN A

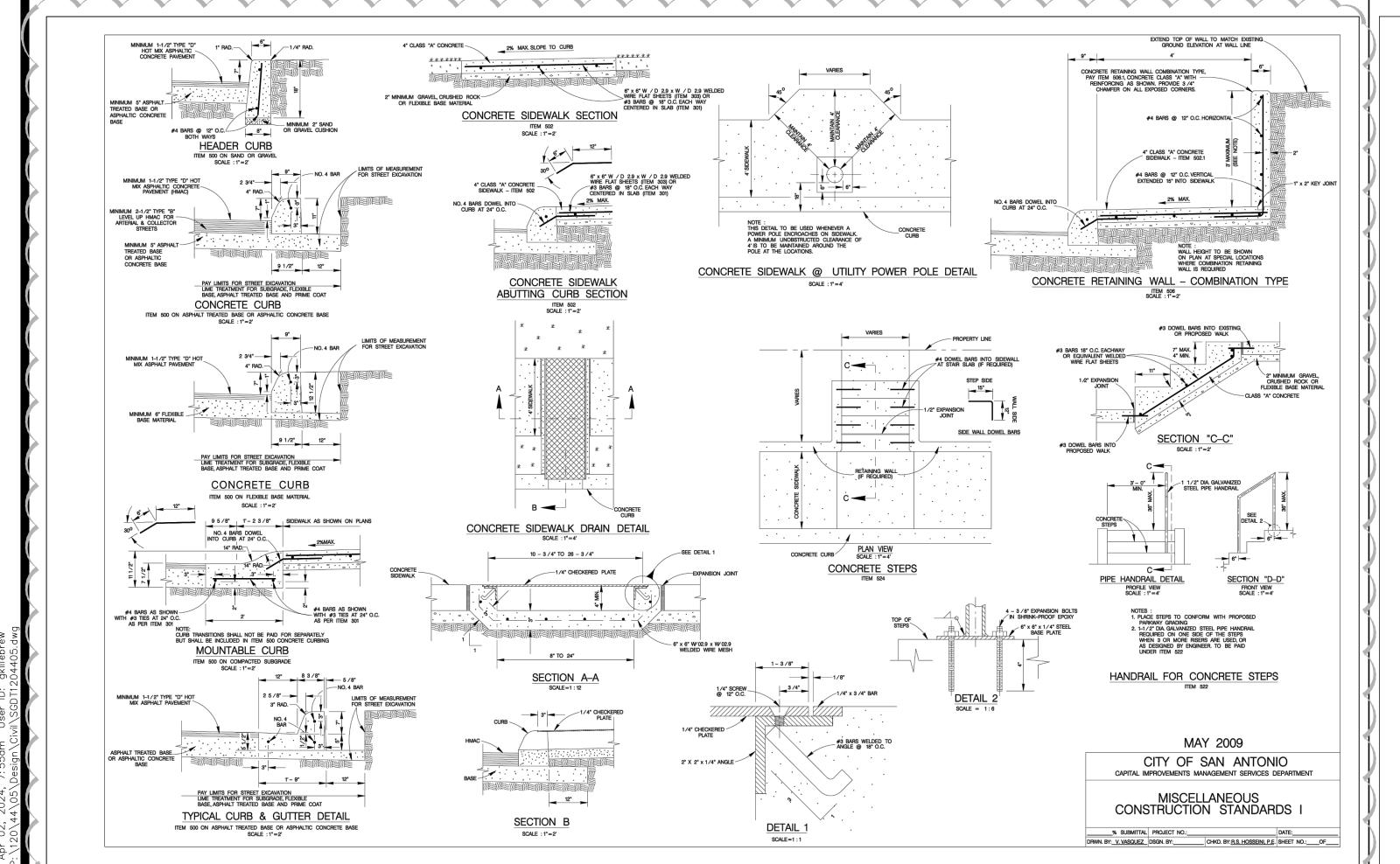
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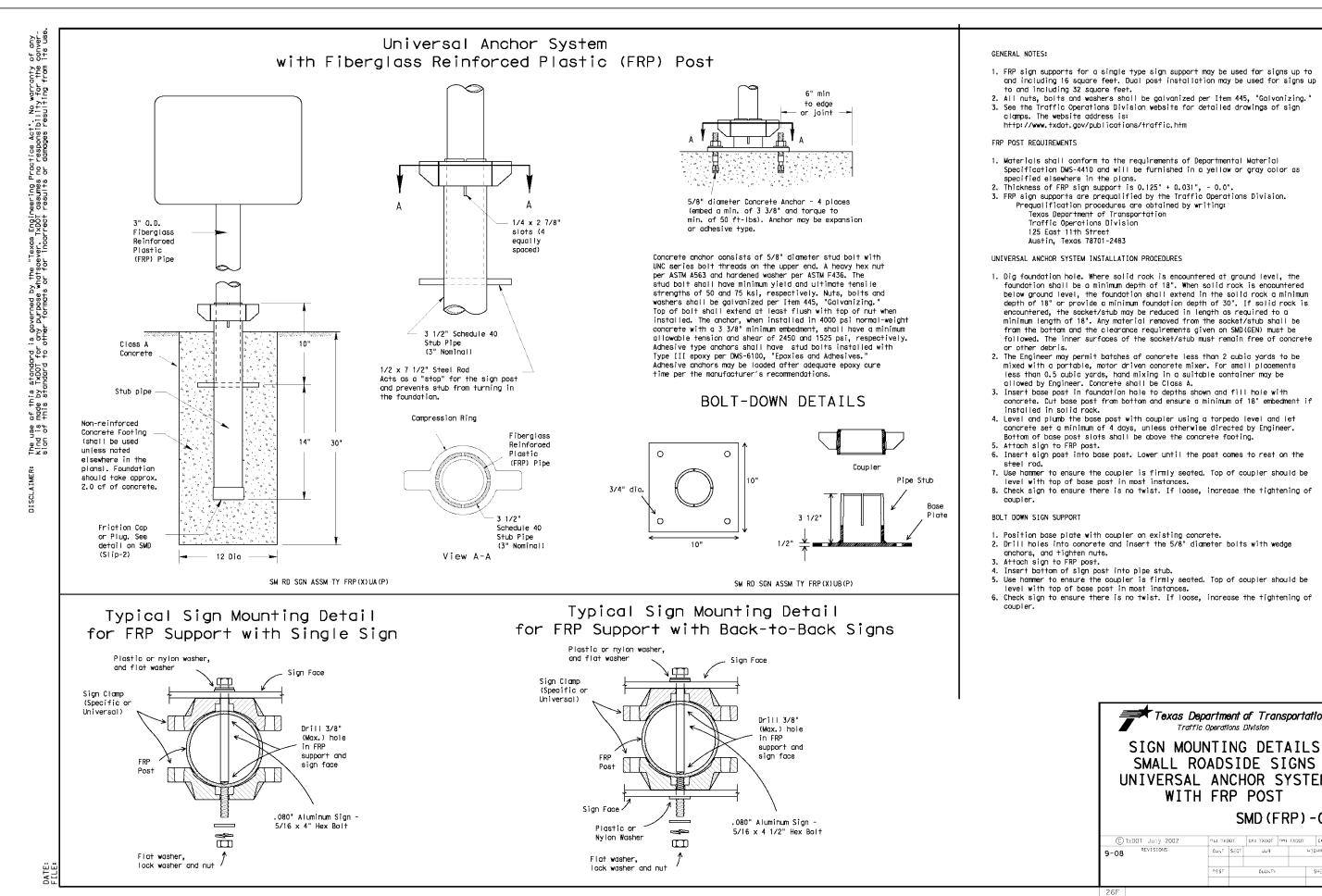
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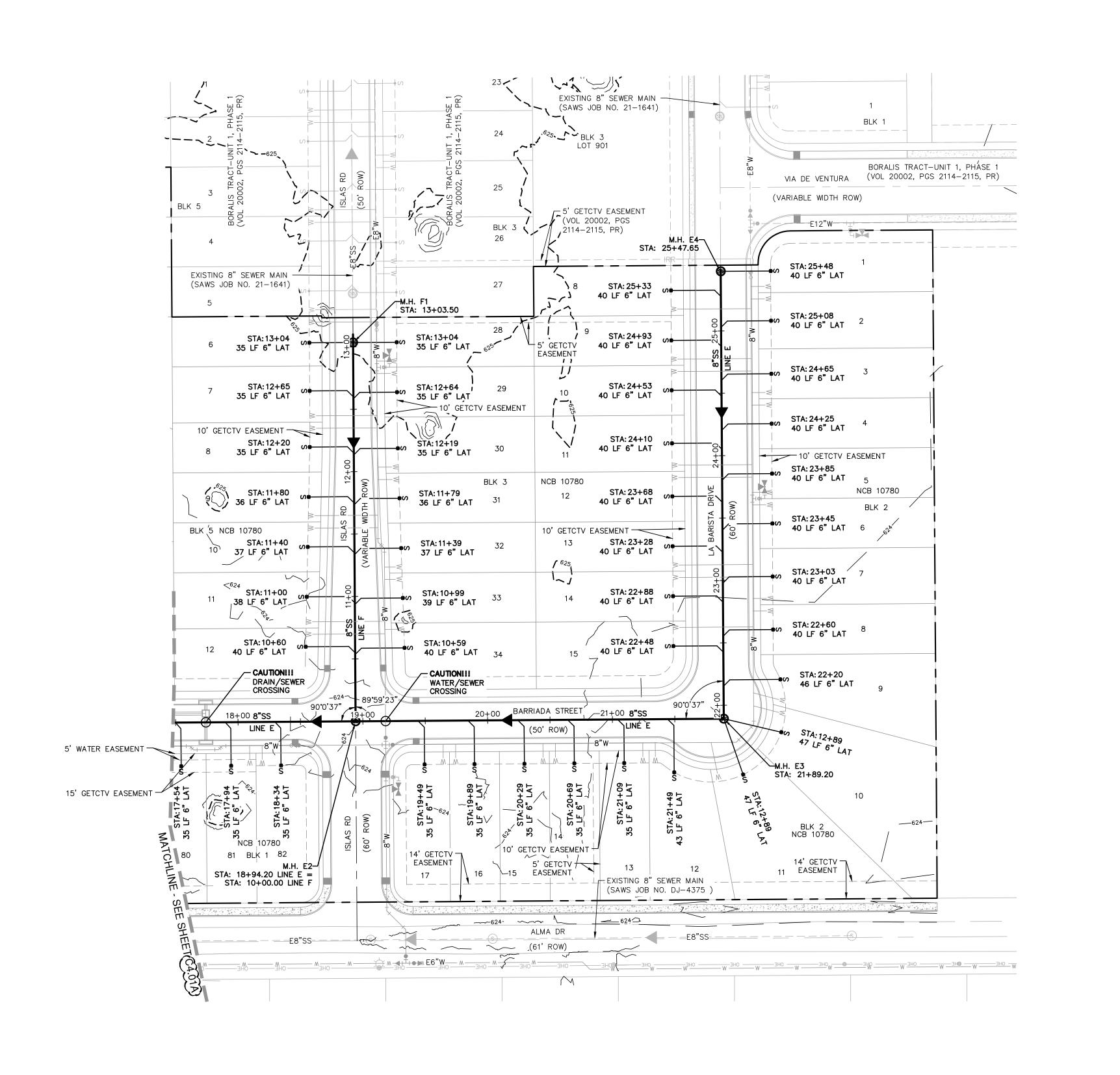
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GNAGE SHEE

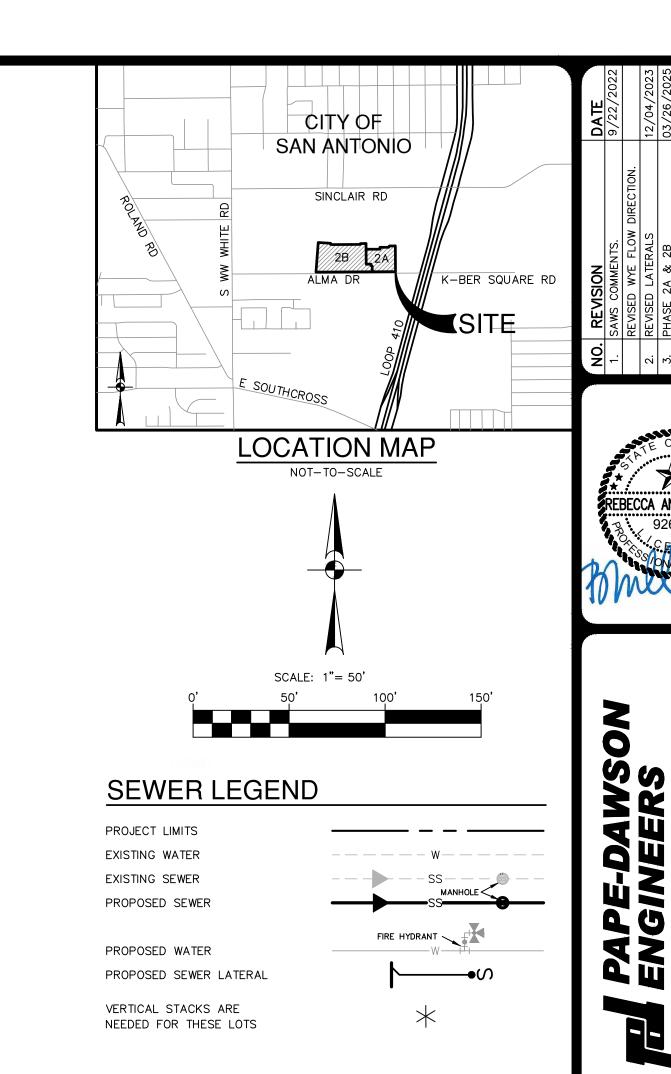


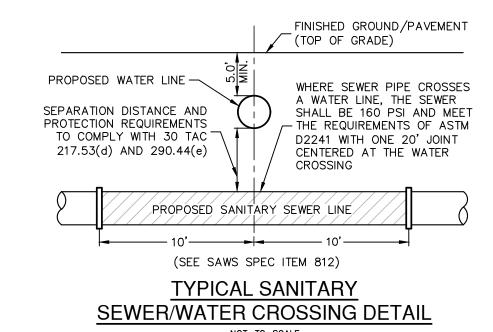
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CAUTION!!

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.

WASTEWATER COLLECTION LOWER WASTEWATER TREATMENT DOS RIOS/LEON CREEK

DEVELOPER'S NAME: K.B. HOME LONE STAR, INC.

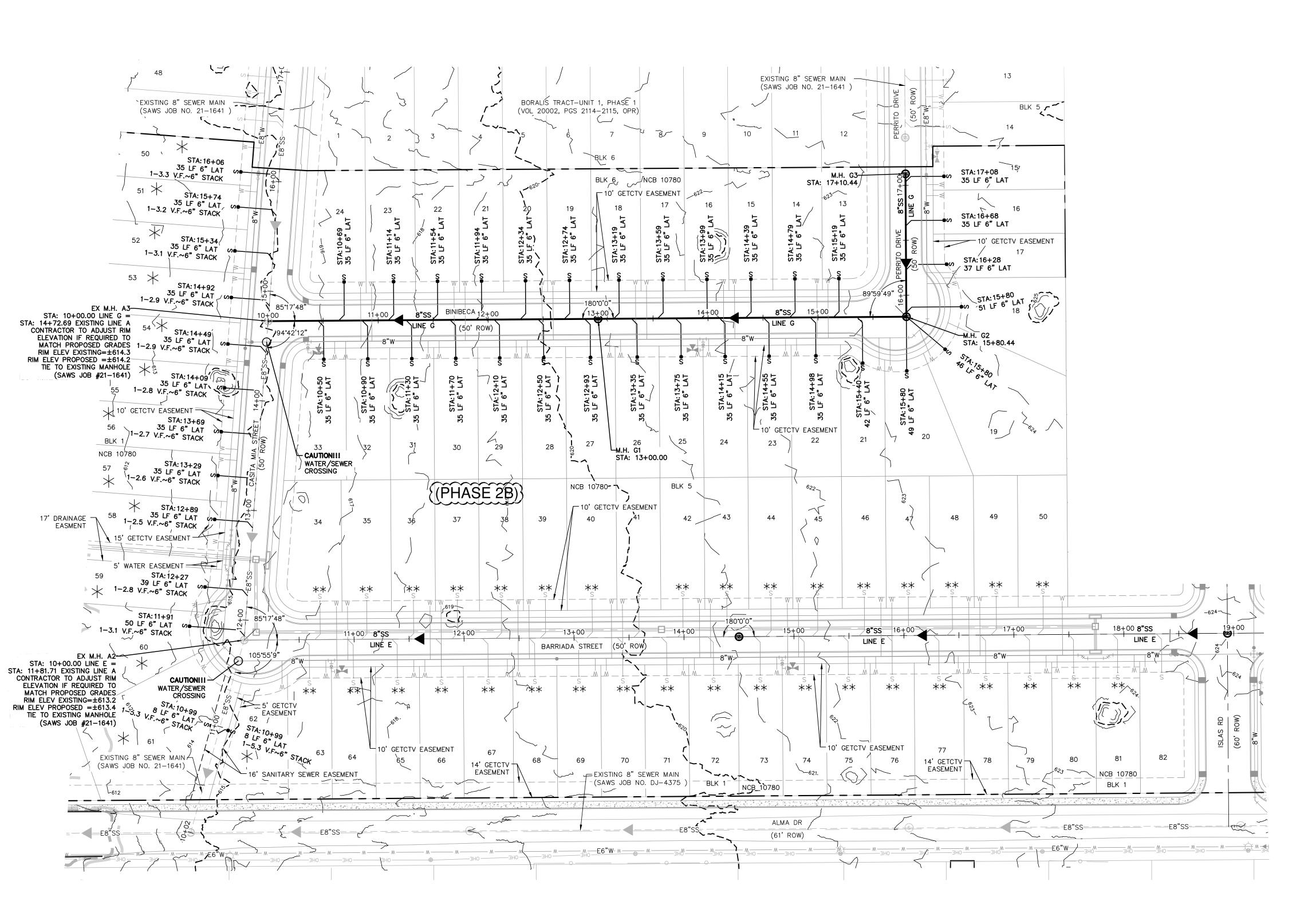
ADDRESS: 4800 FREDERICKSBURG RD

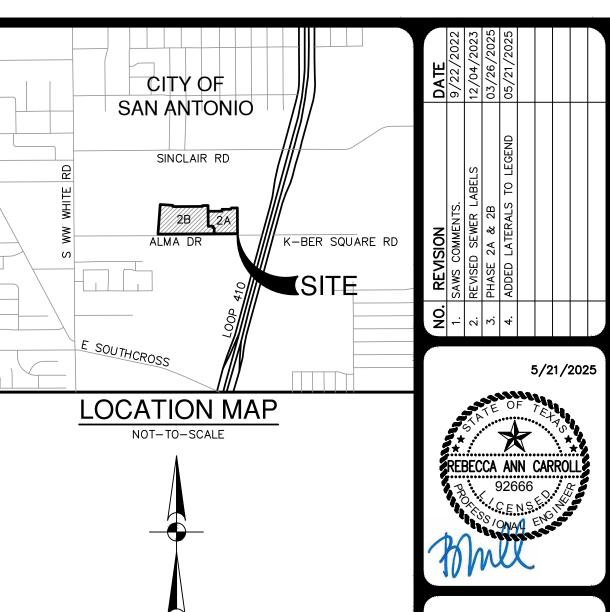
ADDRESS: 4800 FREDERICKS	BURG RD	
CITY: SAN ANTONIO	STATE: TEXAS	_ ZIP: <u>78229</u>
PHONE# (210) 301-2886	FAX# <u>(210</u>)) 366–2378
SAWS BLOCK MAP# 190562 TO		
TOTAL LINEAR FOOTAGE OF PIP		
NUMBER OF LOTS 39	SAWS JOB NO25-	-1534

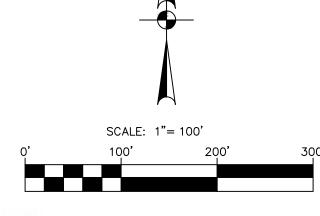
PLAT NO. 22-1180012
JOB NO. 12044-05
DATE MAY 2025
DESIGNER AC

DRAWN A

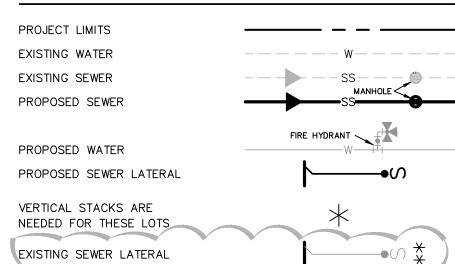
5/21/2025

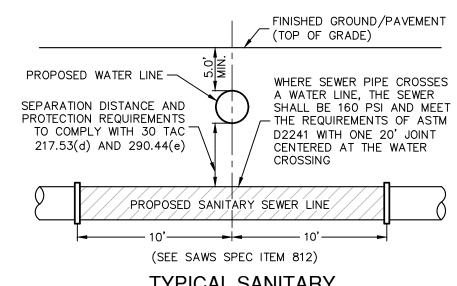






SEWER LEGEND





TYPICAL SANITARY SEWER/WATER CROSSING DETAIL

CAUTION!!

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

NOT-TO-SCALE

TRENCH EXCAVATION SAFETY PROTECTION:

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WASTEWATER COLLECTION LOWER WASTEWATER TREATMENT DOS RIOS/LEON CREEK

DEVELOPER'S NAME: K.B.			•	
ADDRESS: 4800 FREDER	RICKSBURG RE)		
CITY: SAN ANTONIO	STATE:_	TEXAS	ZIP:_	78229
PHONE# <u>(210) 301-2886</u>		_ FAX#	(210) 366-	-2378
SAWS BLOCK MAP# 19050	62_TOTAL ED	J'S <u>(81)</u>	TOTAL ACR	REAGE 20.6
TOTAL LINEAR FOOTAGE OF	F PIPE:	711- 8"SS	PLAT NO	D. 2 <u>2–118001</u>
NUMBER OF LOTS 81	SAWS	JOB NO	22-1628)

UNI ZB) Z

- _{NO.} 22-1180012

MAY 2025

<u>~~~</u> C4.00B

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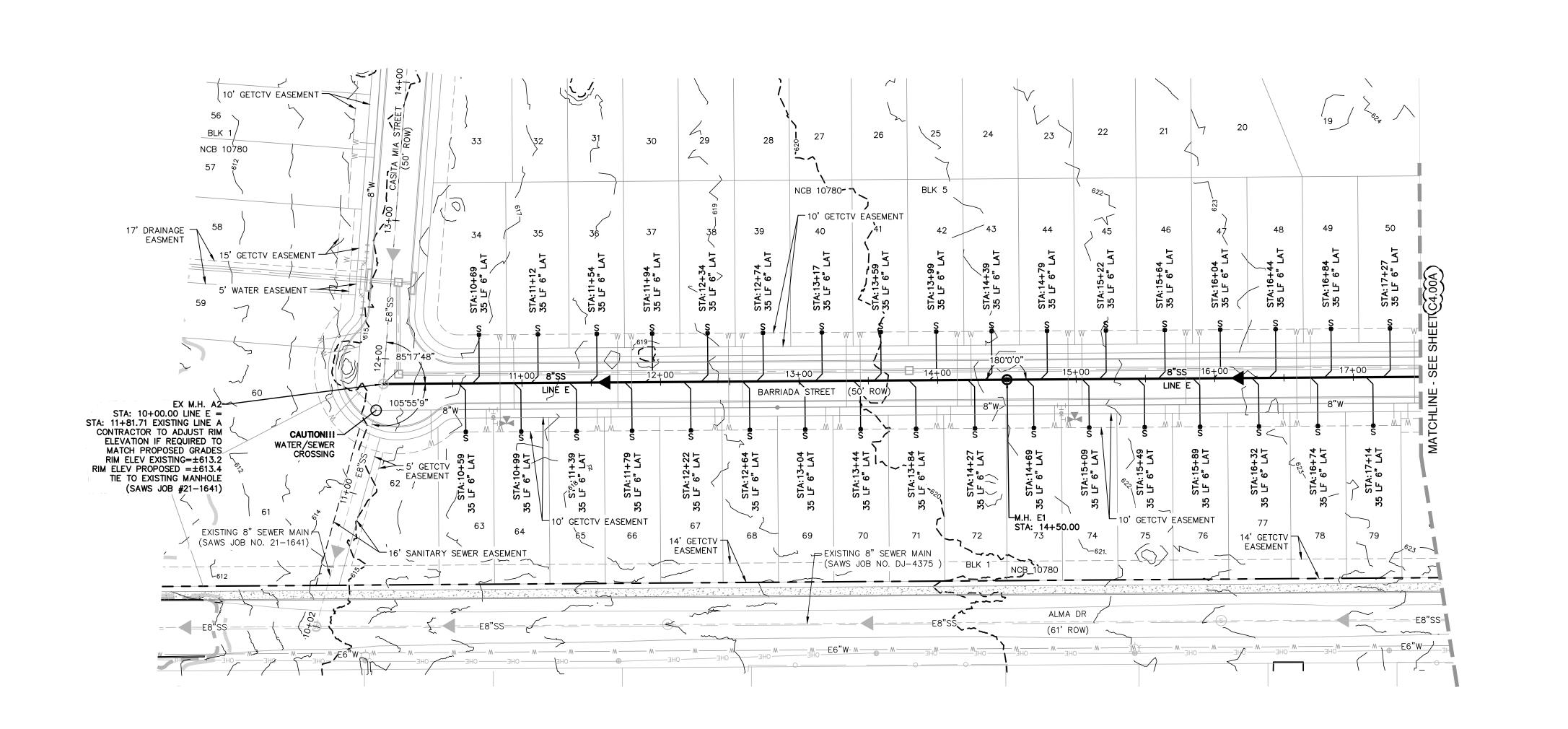
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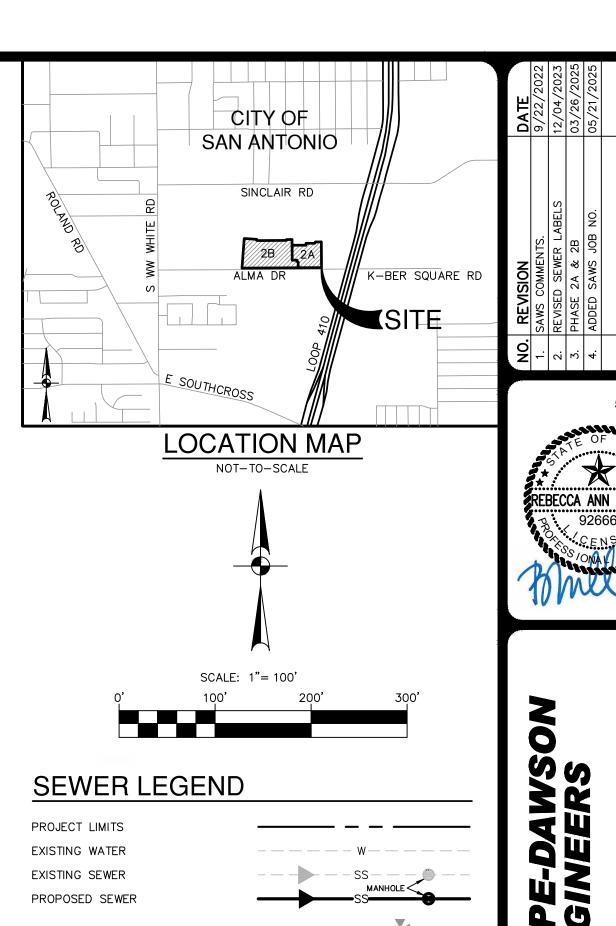
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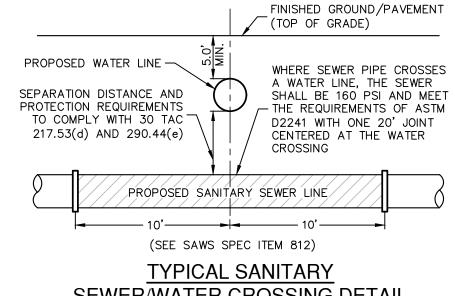
CHECKED

80

PAPE-DAWS(ENGINEERS







SEWER/WATER CROSSING DETAIL

CAUTION!!

PROPOSED WATER

PROPOSED SEWER LATERAL

VERTICAL STACKS ARE NEEDED FOR THESE LOTS

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

TRENCH EXCAVATION SAFETY PROTECTION

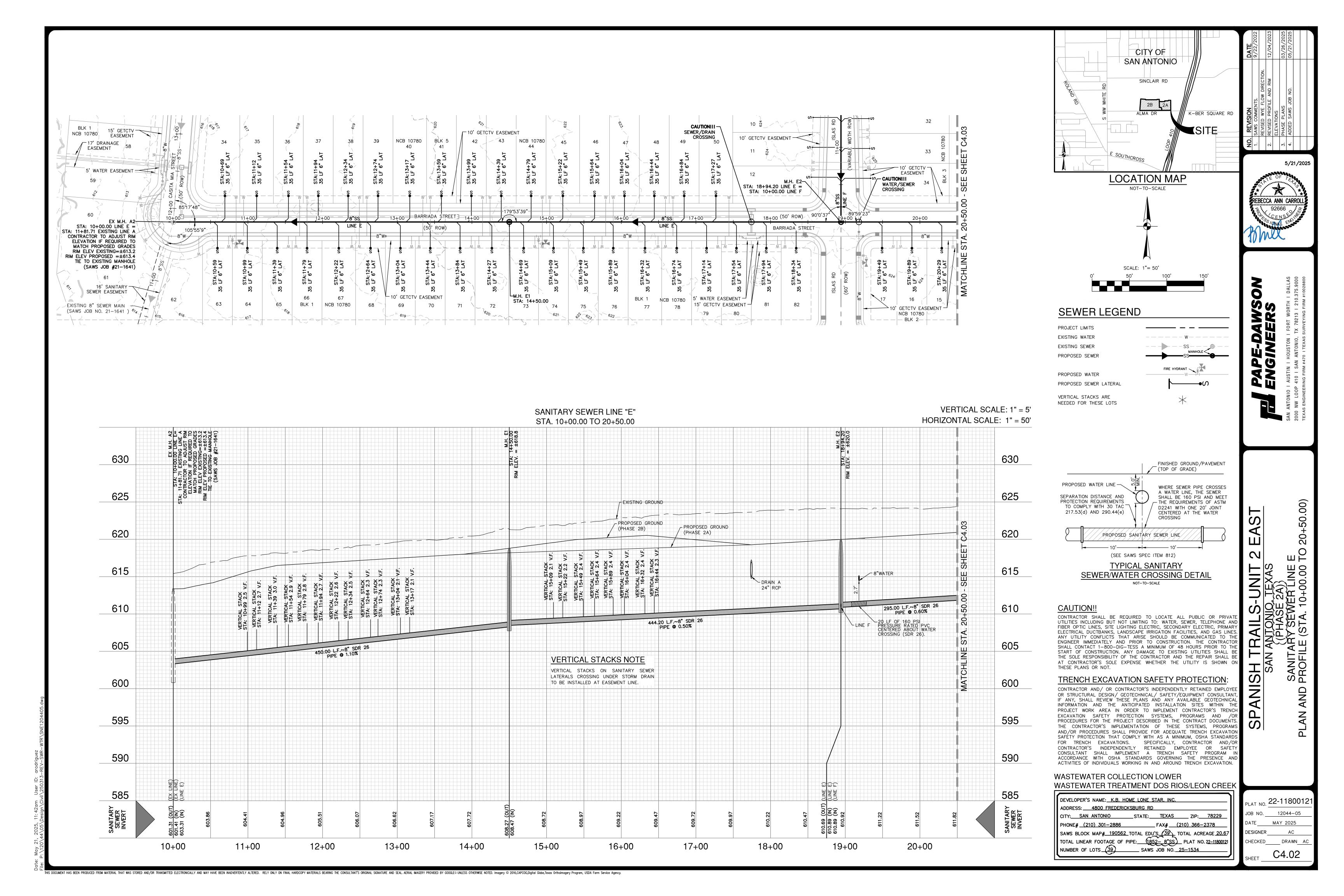
CONTRACTOR AND/ OR CONTRACTOR'S INDEPENDENTLY RETAINED EMP OR STRUCTURAL DESIGN/ GEOTECHNICAL/ SAFETY/EQUIPMENT CONSUL IF ANY, SHALL REVIEW THESE PLANS AND ANY AVAILABLE GEOTECH INFORMATION AND THE ANTICIPATED INSTALLATION SITES WITHIN PROJECT WORK AREA IN ORDER TO IMPLEMENT CONTRACTOR'S TE EXCAVATION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

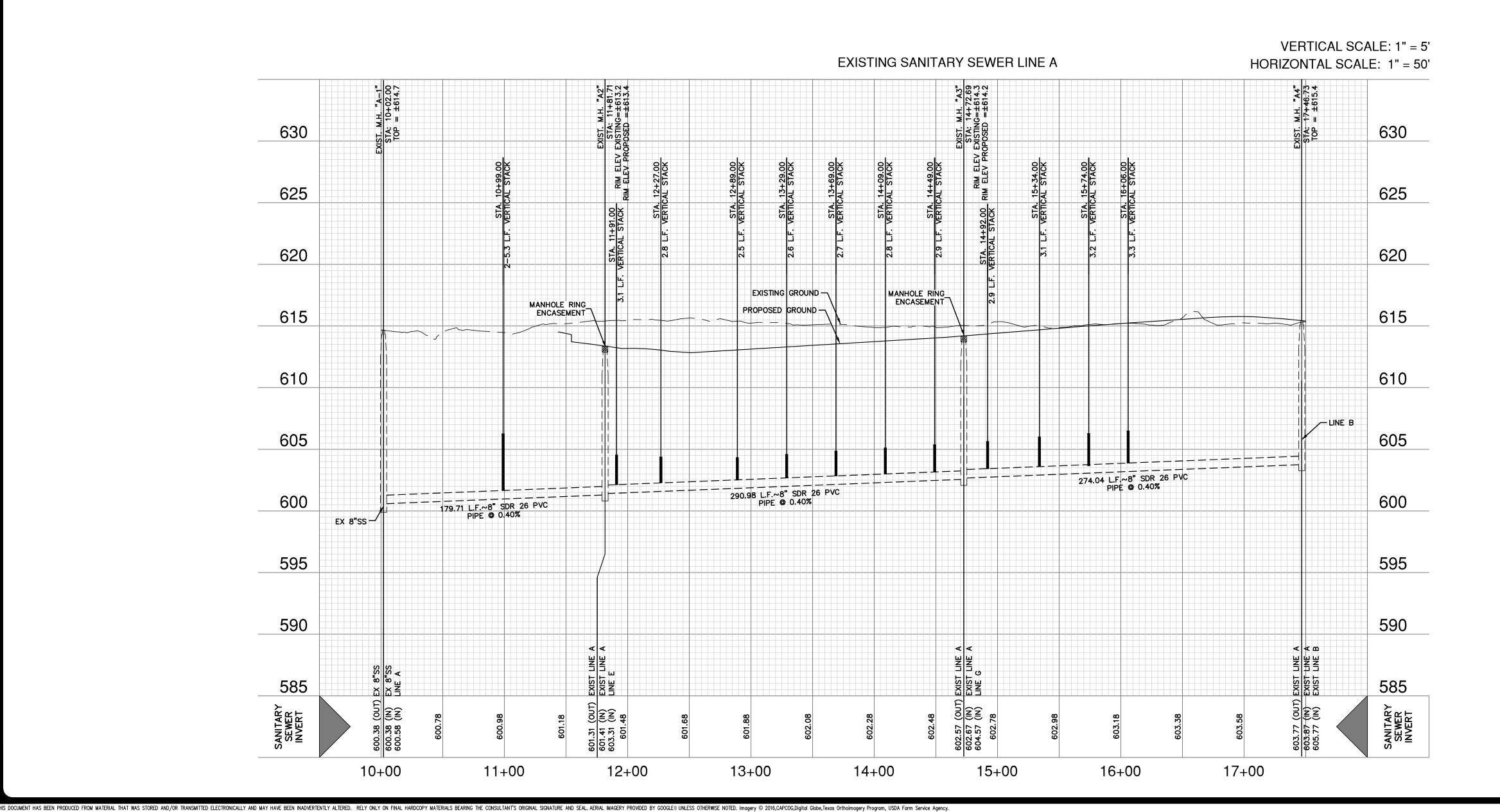
WASTEWATER COLLECTION LOWER

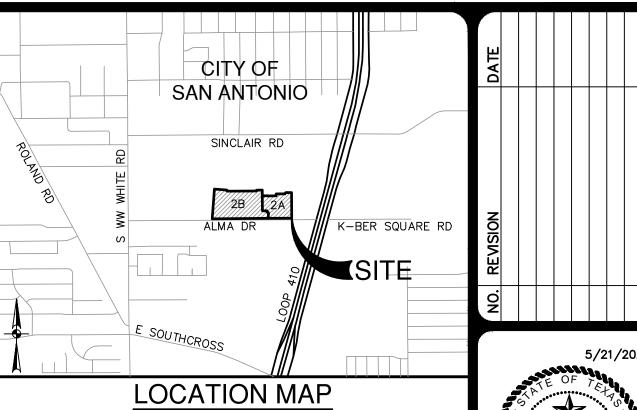
WASTEWATER TREATMENT DOS RIOS/LEON CREEK

DEVELOPER'S NAME: K.B. HOME LONE STAR, INC.	PLAT NO. 22-11800	121
ADDRESS: 4800 FREDERICKSBURG RD		
CITY: SAN ANTONIO STATE: TEXAS ZIP: 78229	JOB NO12044-05	
PHONE# (210) 301-2886 FAX# (210) 366-2378	DATE MAY 2025	
SAWS BLOCK MAP# 190562 TOTAL EDU'S 39 TOTAL ACREAGE 20.67	DESIGNER AC	
TOTAL LINEAR FOOTAGE OF PIPE: (1852- 8"SS) PLAT NO. 22-11800121	CHECKEDDRAWN	AC_
NUMBER OF LOTS 39 SAWS JOB NO. 25-1534 3	$(\widehat{C4} \widehat{O1A})$)
	SHEET (OT.OT)	')

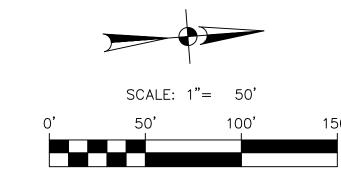
RIVATE E AND RIMARY LINES. O THE ACTOR TO THE ALL BE ALL BE WN ON	H TRAILS-UN	SAN ANTONIO, TEX
PLOYEE LTANT, HNICAL HNICAL NENCH /OR MENTS. GRAMS VATION DARDS ND/OR GAFETY MM IN E AND TION.	SPANIS	



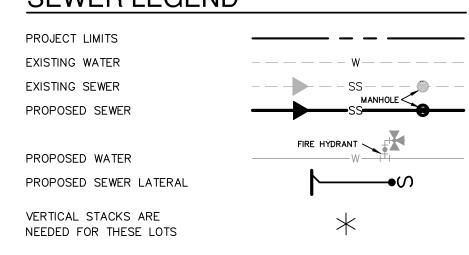


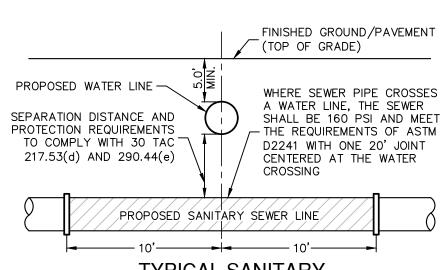






SEWER LEGEND





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

CAUTION!!

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

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WASTEWATER COLLECTION LOWER WASTEWATER TREATMENT DOS RIOS/LEON CREEK

ADDRESS: 4800 FREDERICKSBURG RD CITY: SAN ANTONIO STATE:		 IP∙ 78229
	TEXAS Z	ıp∙ 78229
		" •
PHONE# (210) 301-2886	FAX# <u>(210) 3</u>	366-2378 <u> </u>
SAWS BLOCK MAP# 190562 TOTAL EDU'	'S 81 TOTAL	ACREAGE <u>20.6</u> 7
TOTAL LINEAR FOOTAGE OF PIPE:	11- 8"SS PLAT	T NO. 2 <u>2-1180012</u> 1
NUMBER OF LOTS 81 SAWS	JOB NO. 22-16	28

SAN ANTONIO, TEXAS

(PHASE 2B)

(EXISTING SANITARY SEWER LINE

REBECCA ANN CARRO

80

PAPE-DAWS(ENGINEERS

PLAT NO. 22-1180012

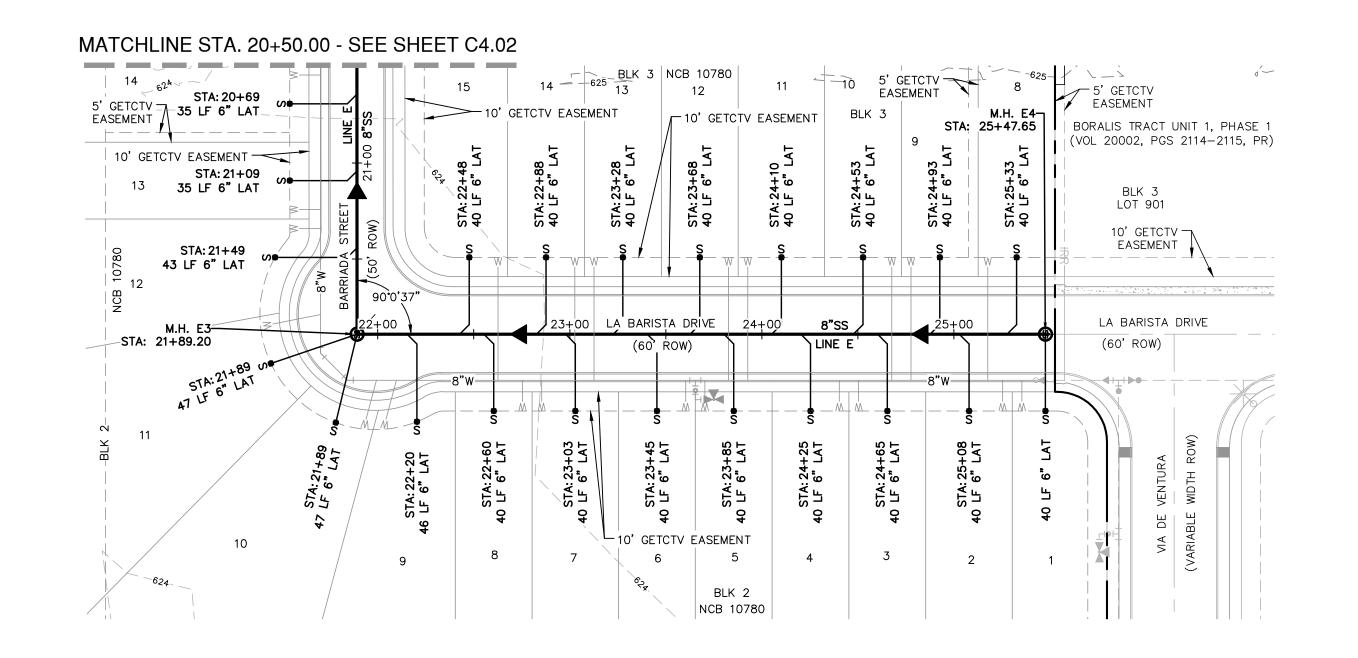
JOB NO. 12044-05

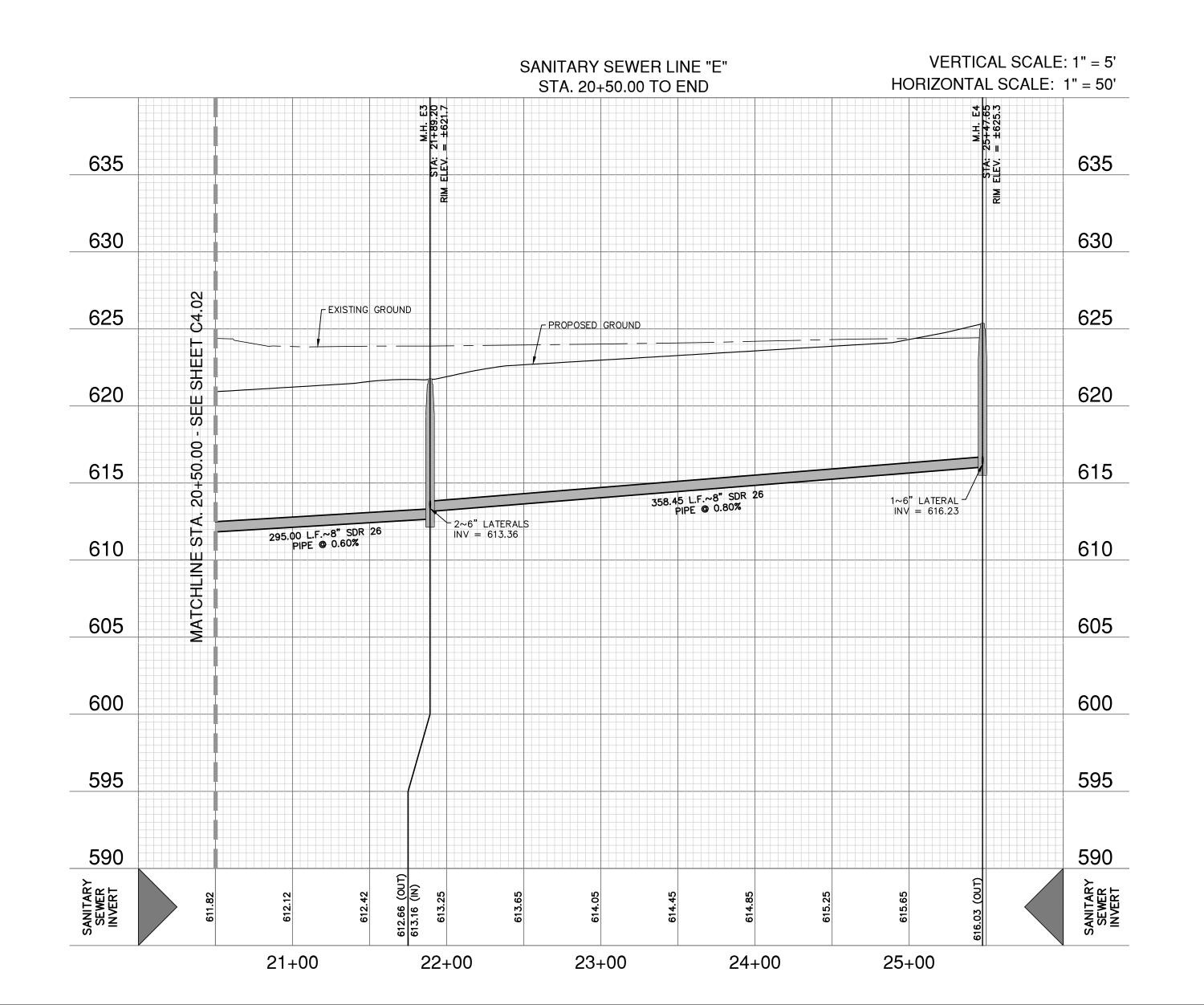
DATE MAY 2025

DESIGNER AC

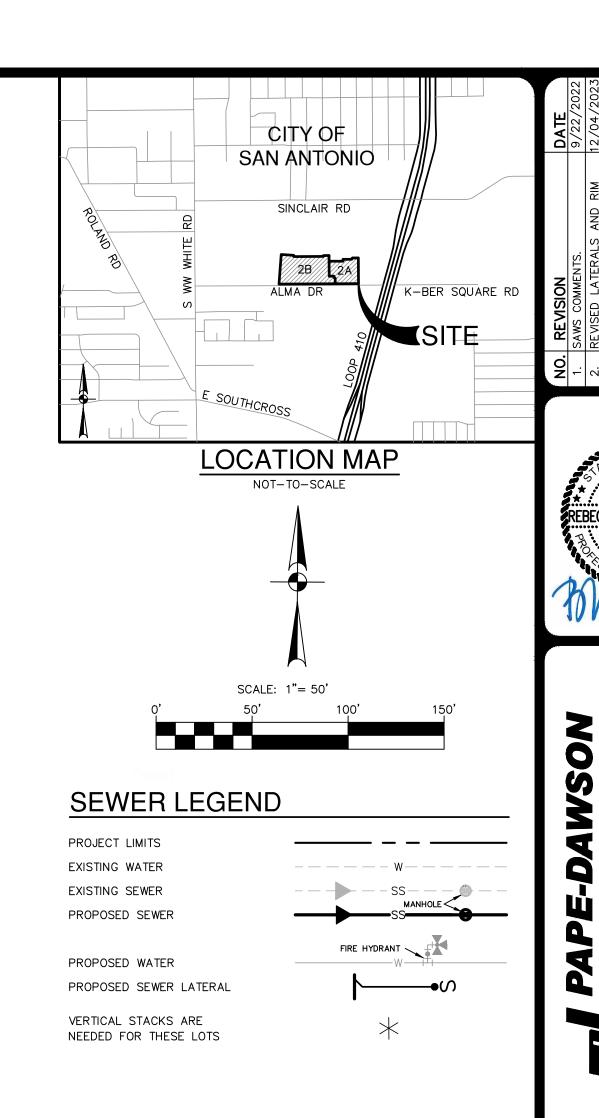
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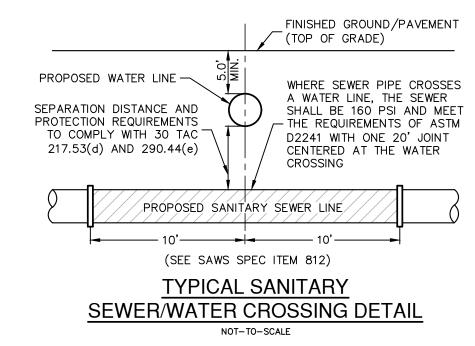
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WASTEWATER COLLECTION LOWER WASTEWATER TREATMENT DOS RIOS/LEON CREEK

DEVELOF	PER'S NAME: K.B.	HOME LONE S	TAR. INC.		
ADDRESS	S: 4800 FREDER	ICKSBURG RD			
CITY:	SAN ANTONIO	STATE:	TEXAS	ZIP:	78229
PHONE#	(210) 301-2886		_FAX#	<u>(210) 366–2</u>	2378
SAWS BI	LOCK MAP# <u>19056</u>	32_TOTAL EDU	's 39	TOTAL ACRE	AGE <u>20.6</u> 7
	INEAR FOOTAGE OF	F PIPE: (185	52- 8"SS	PLAT NO.	. 2 <u>2–1180012</u> 1
NUMBER	OF LOTS (39)	SAWS	JOB NO.	25-1534	

END)

PLAT NO. 22-11800121

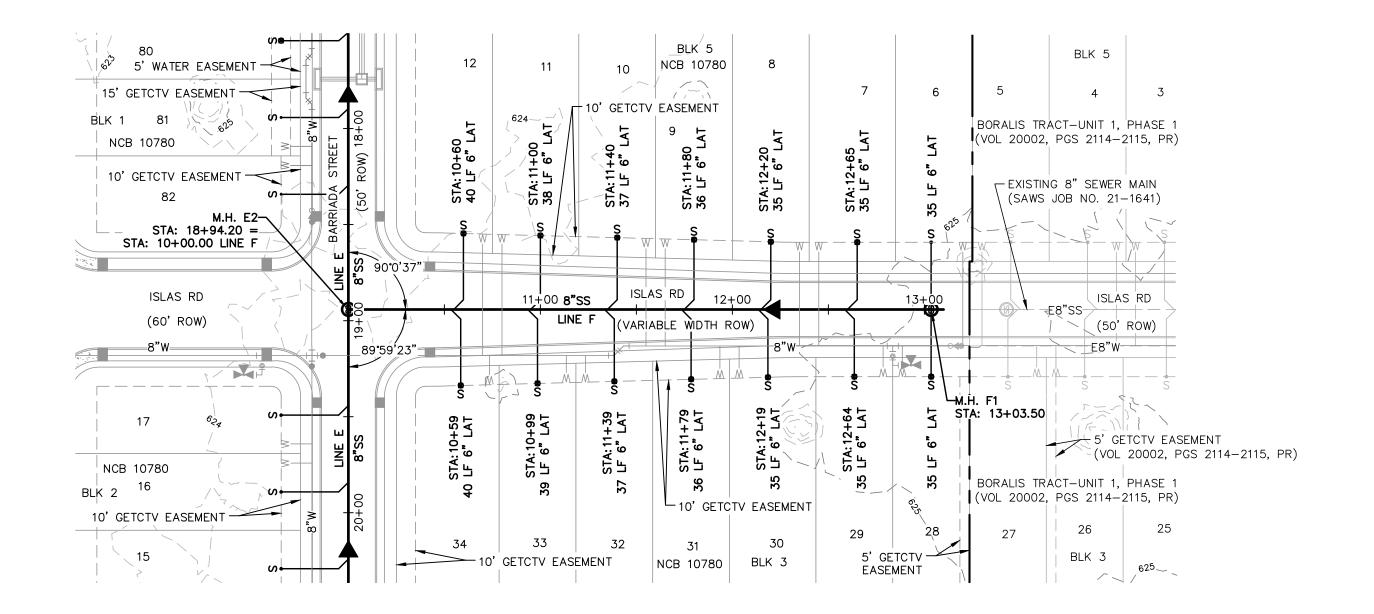
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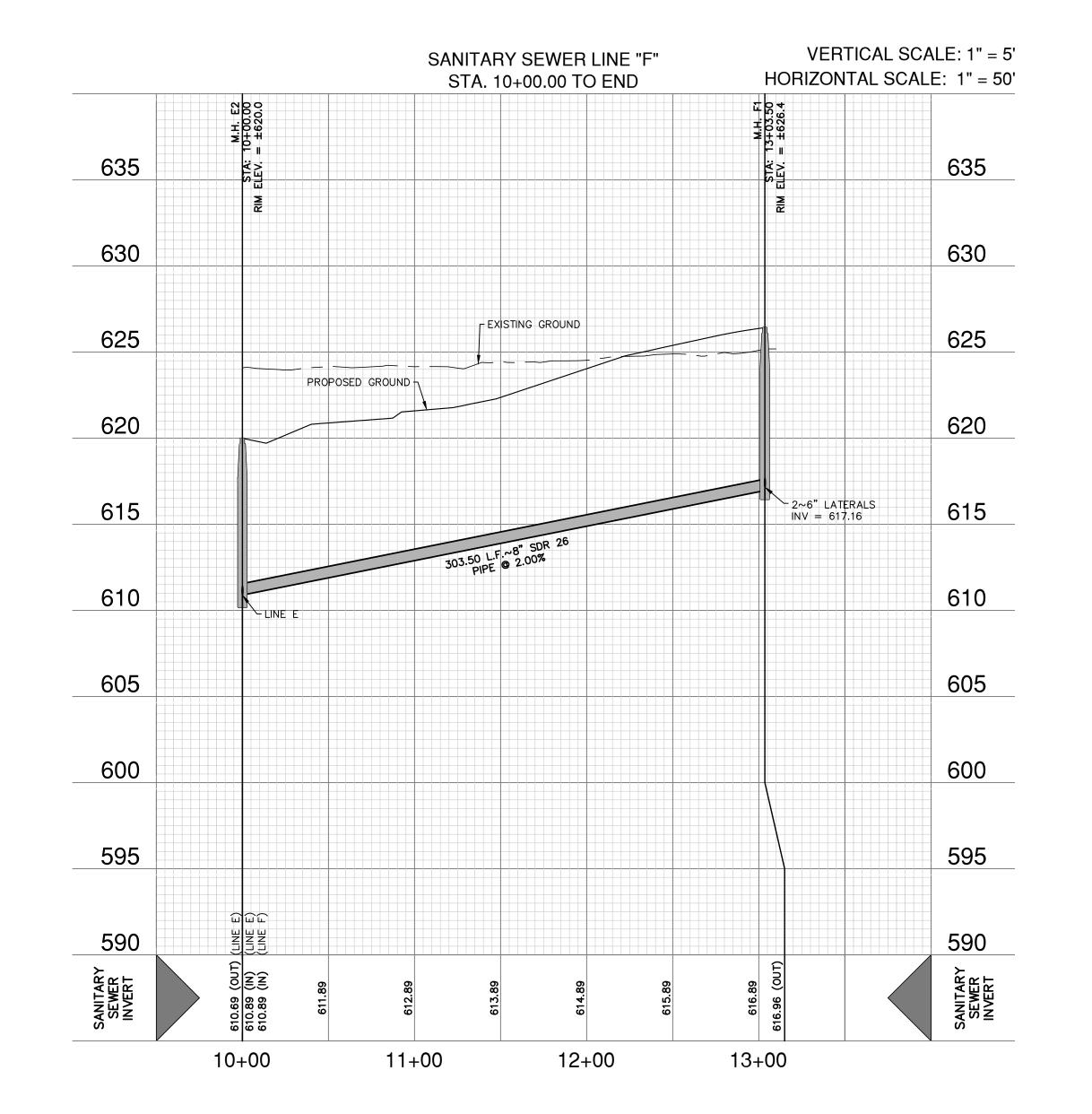
DATE MAY 2025

DESIGNER AC

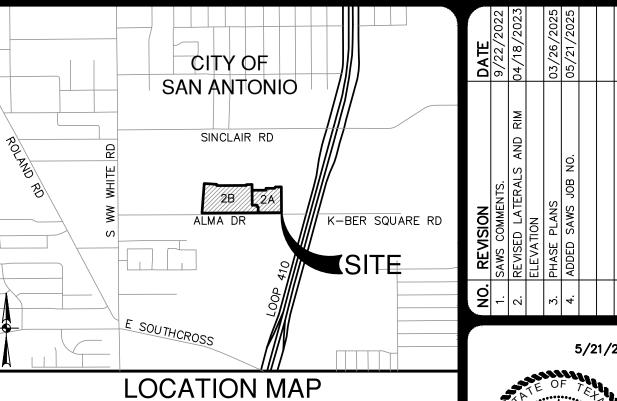
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SHEET C4.03



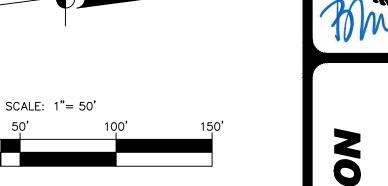


HIS DOCUMENT HAS BEEN PRODUCED FROM MATERIAL THAT WAS STORED AND/OR TRANSMITTED ELECTRONICALLY AND MAY HAVE BEEN INADVERTENTLY ALTERED. RELY ONLY ON FINAL HARDCOPY MATERIALS BEARING THE CONSULTANT'S ORIGINAL SIGNATURE AND SEAL AERIAL IMAGERY PROVIDED BY GOOGLE® UNLESS OTHERWISE NOTED. Imagery © 2016,CAPCOG,Digital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

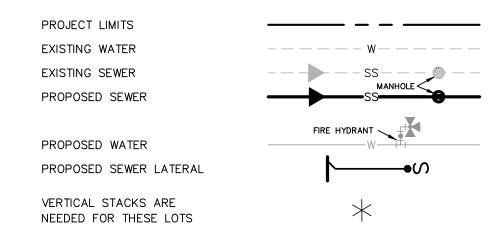


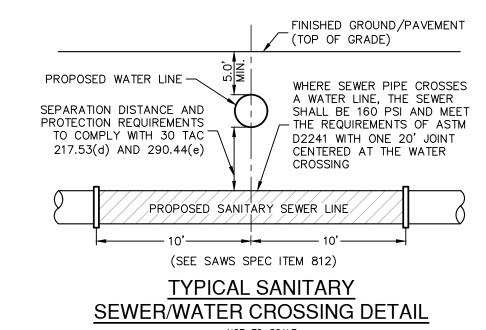
NOT-TO-SCALE





SEWER LEGEND





CAUTION!!

CONTRACTOR SHALL BE REQUIRED TO LOCATE ALL PUBLIC OR PRIVATE UTILITIES INCLUDING BUT NOT LIMITING TO: WATER, SEWER, TELEPHONE AND FIBER OPTIC LINES, SITE LIGHTING 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.

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WASTEWATER COLLECTION LOWER WASTEWATER TREATMENT DOS RIOS/LEON CREEK

	PER'S NAME:			TAR, INC.		
ADDRES	S: <u>4800</u>	<u>FREDERICKS</u>	BURG RD			
CITY:	SAN ANTON	110	STATE:	TEXAS	ZIP:	78229
PHONE#	<u>(210) 301</u>	-2886		FAX#(2	<u>10) 366–</u>	2378
	LOCK MAP#			<u> </u>		
TOTAL I	INEAR FOOT	AGE OF PIP	E: <u>(185</u>	2- 8"SS)	PLAT NO	. 2 <u>2–118001</u>
NUMBER	R OF LOTS_	(39)	SAWS	JOB NO2	5-1534	

SAN ANTONIO, TEXAS

PAPE-DAWS ENGINEERS

PLAT NO. 22-11800121

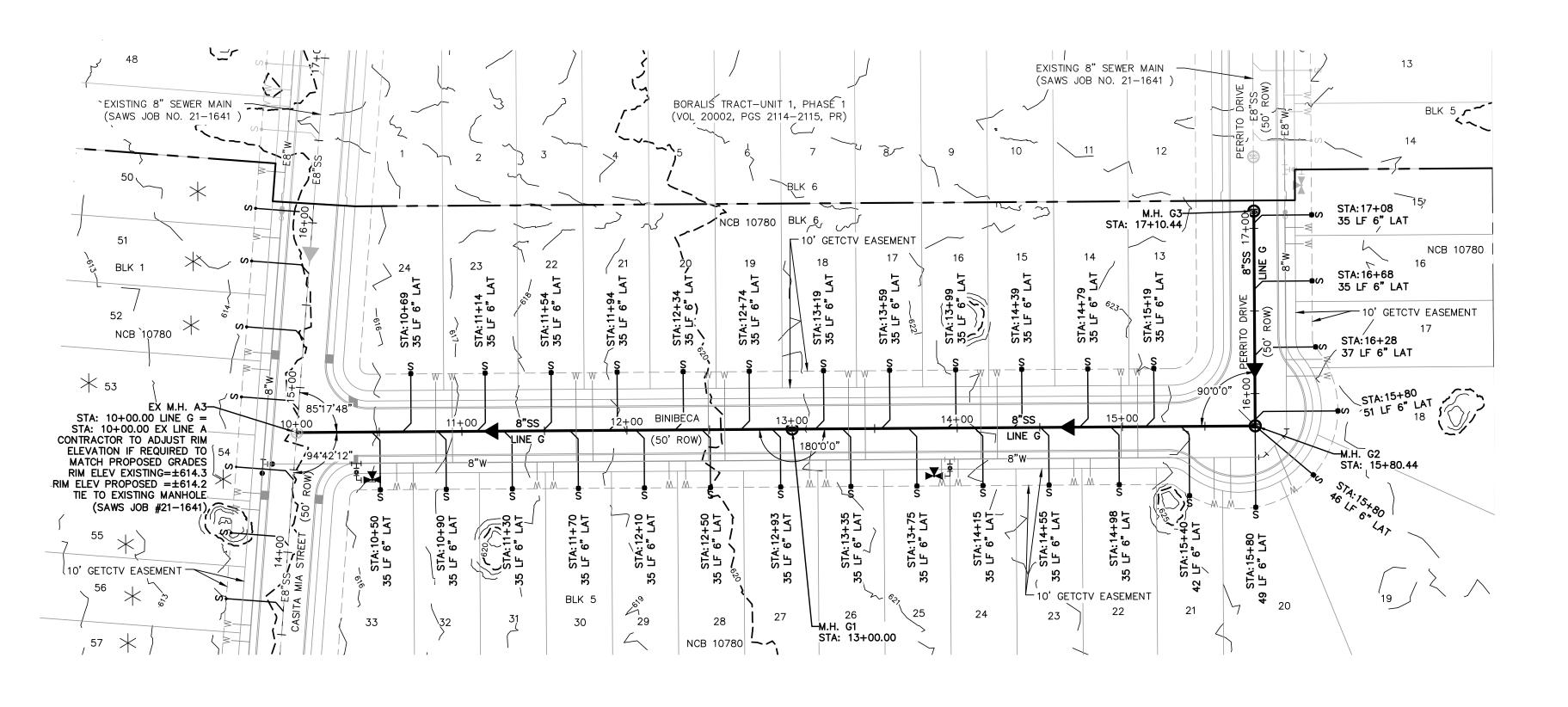
JOB NO. 12044-05

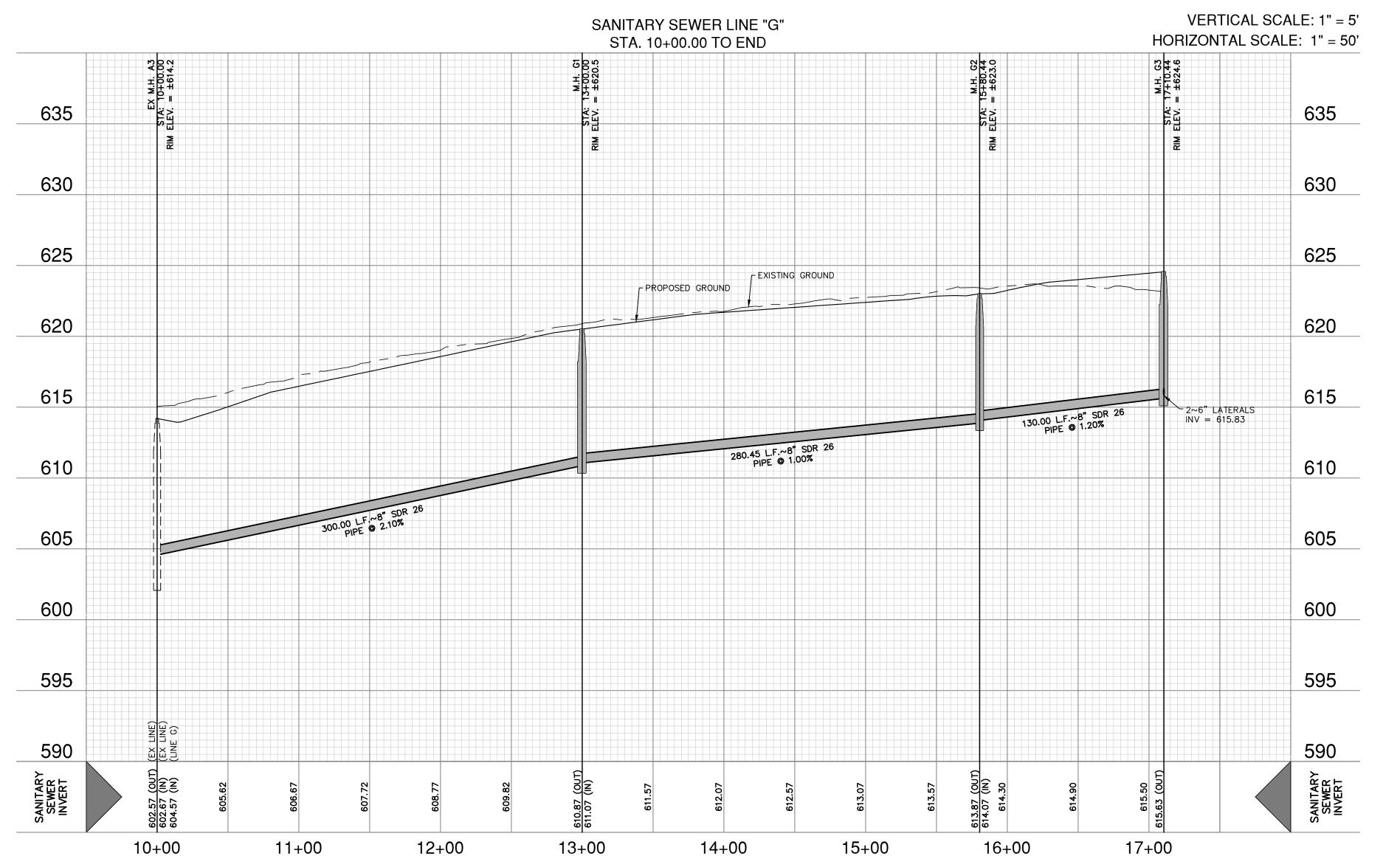
DATE MAY 2025

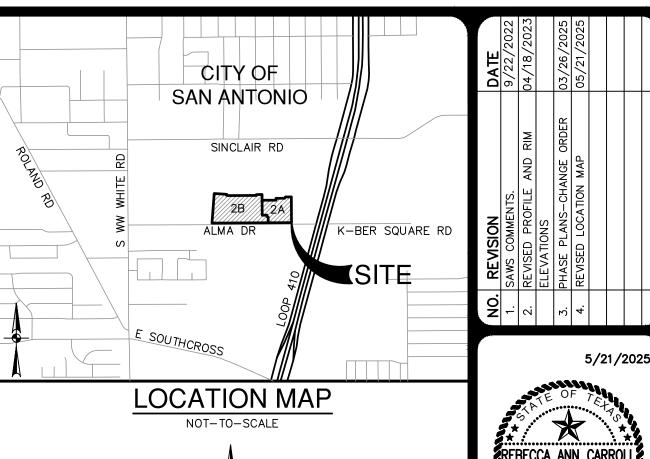
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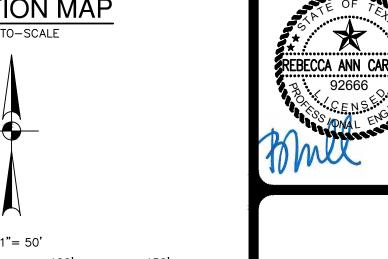
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SHEET C4.04





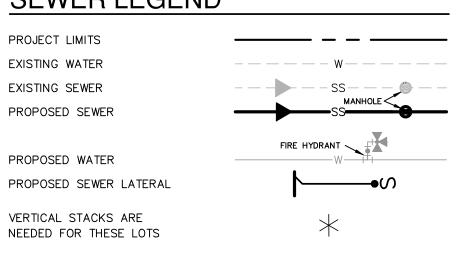


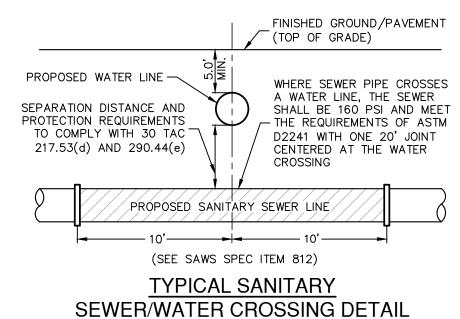


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PAPE-DAWS(ENGINEERS

SEWER LEGEND





CAUTION!!

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

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.

WASTEWATER COLLECTION LOWER WASTEWATER TREATMENT DOS RIOS/LEON CREEK

DEVELOPER'S NAME: K.B. HOME LONE STAR, INC.
ADDRESS: 4800 FREDERICKSBURG RD
CITY: SAN ANTONIO STATE: TEXAS ZIP: 78229
PHONE# <u>(210) 301-2886</u> FAX# <u>(210) 366-2378</u>
SAWS BLOCK MAP# 190562 TOTAL EDU'S 81 TOTAL ACREAGE 20.67
TOTAL LINEAR FOOTAGE OF PIPE: 711-8"SS PLAT NO. 22-11800121
NUMBER OF LOTS (81) SAWS JOB NO. 22-1628

SPANIONIO, TEXAS SAN ANTONIO, TEXAS SAN ANTONIO, TEXAS SAN ANTONIO, TEXAS

PLAT NO. 22-1180012

JOB NO. 12044-05

CHECKED DRAWN AC

DESIGNER

MAY 2025

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

SAWS CONSTRUCTION NOTES (LAST REVISED JULY 2017)

SAWS GENERAL SECTION

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

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

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

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

SAWS SEWER NOTES

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

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

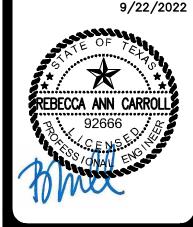
NO SEPARATE MEASUREMENT OR PAYMENT SHALL BE MADE FOR THIS WORK. ALL WORK SHALL BE DONE ACCORDING TO GUIDELINES SET BY THE TCEQ

- . IF BYPASS PUMPING IS REQUIRED. THE CONTRACTOR SHALL PERFORM SUCH WORK IN ACCORDANCE WITH SAWS STANDARD SPECIFICATION FOR WATER AND SANITARY SEWER CONSTRUCTION, ITEM NO. 864, "BYPASS PUMPING".
- PRIOR TO TIE-INS, ANY SHUTDOWNS OF EXISTING FORCE MAINS OF ANY SIZE MUST BE COORDINATED WITH THE SAWS CONSTRUCTION INSPECTION DIVISION AT (210) 233-2973 AT LEAST ONE WEEK IN ADVANCE OF THE SHUTDOWN. THE CONTRACTOR MUST ALSO PROVIDE A SEQUENCE OF WORK AS RELATED TO THE TIE-INS; THIS IS AT NO ADDITIONAL COST TO SAWS OR THE PROJECT AND IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO SEQUENCE THE WORK ACCORDINGLY.
- 4. SEWER PIPE WHERE WATER LINE CROSSES SHALL BE 160 PSI AND MEET THE REQUIREMENTS OF ASTM D2241, TAC 217.53 AND TCEQ 290.44(E)(4)(B). CONTRACTOR SHALL CENTER A 20' JOINT OF 160 PSI PRESSURÉ RATED PVC AT THE PROPOSED WATER CROSSING.
- 5. ELEVATIONS POSTED FOR TOP OF MANHOLES ARE FOR REFERENCE ONLY: IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO MAKE ALLOWANCES AND ADJUSTMENTS FOR TOP OF MANHOLES TO MATCH THE FINISHED GRADE OF THE PROJECT'S IMPROVEMENTS. (NSPI)
- 6. SPILLS, OVERFLOWS, OR DISCHARGES OF WASTEWATER: ALL SPILLS, OVERFLOWS, OR DISCHARGES OF WASTEWATER, RECYCLED WATER, PETROLEUM PRODUCTS, OR CHEMICALS MUST BE REPORTED IMMEDIATELY TO THE SAWS INSPECTOR ASSIGNED TO THE COUNTER PERMIT OR GENERAL CONSTRUCTION PERMIT (GCP). THIS REQUIREMENT APPLIES TO EVERY SPILL, OVERFLOW, OR DISCHARGE RÉGARDLESS OF SIZE.
- MANHOLE AND ALL PIPE TESTING (INCLUDING THE TV INSPECTION) MUST BE PERFORMED AND PASSED PRIOR TO FINAL FIELD ACCEPTANCE BY SAWS CONSTRUCTION INSPECTION DIVISION, AS PER THE SAWS SPECIFICATIONS FOR WATER AND SANITARY SEWER CONSTRUCTION.
- 8. ALL PVC PIPE OVER 14 FEET OF COVER SHALL BE EXTRA STRENGTH WITH MINIMUM PIPE STIFFNESS OF 115 PSI.

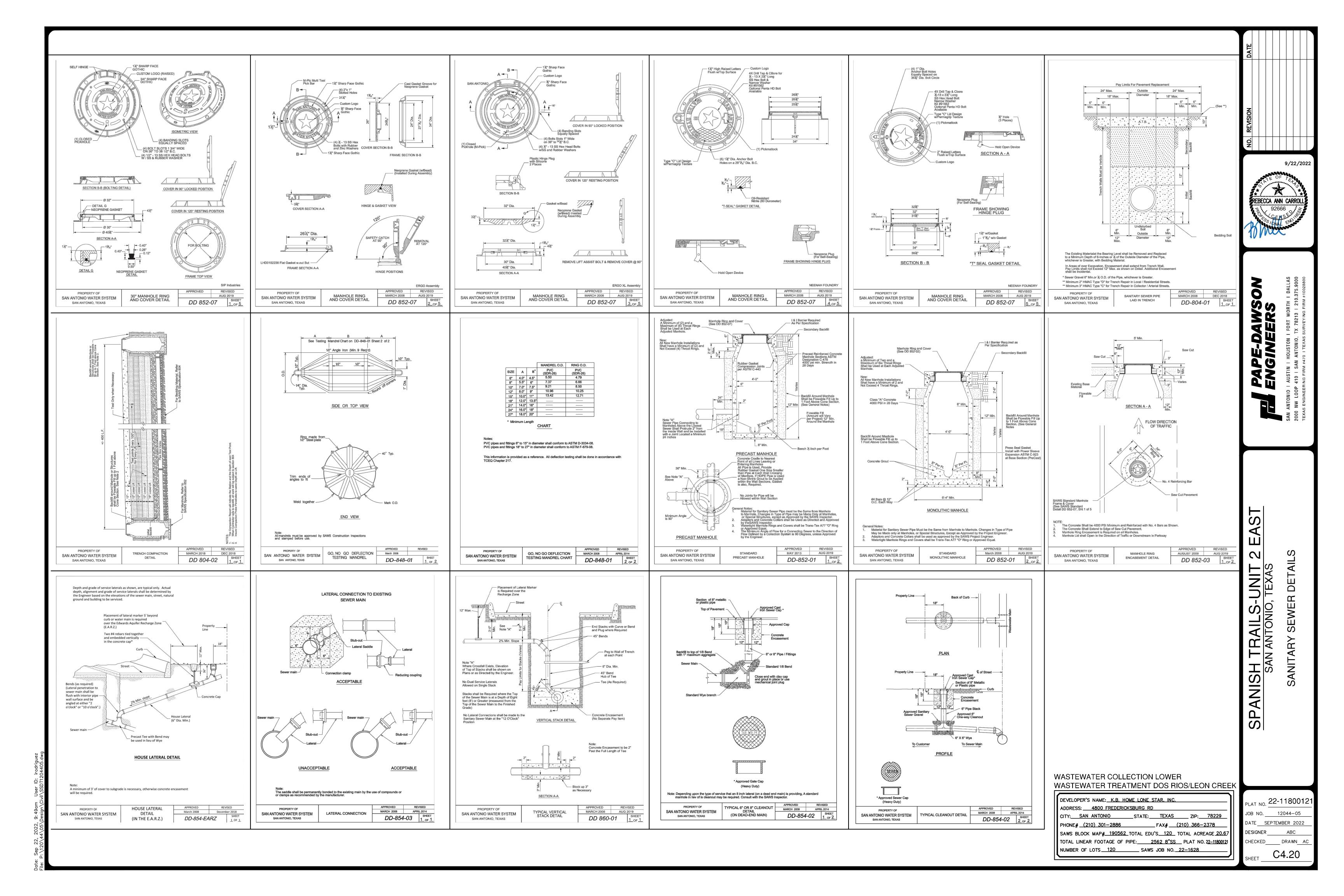
- ALL RESIDENTIAL SEWER SERVICE LATERALS ARE 6" DIA. AND SHALL BE EXTENDED TO 10' PAST THE PROPERTY LINE AND CAPPED AND SEALED. CONTRACTOR SHALL INSTALL A 2" X 4" STAKE, FOUR (4) FEET LONG, TWO (2) FEET DEEP INTO THE GROUND AT THE END OF EACH SERVICE. NO SEPARATE PAY ITEM.
- 2. CONTRACTOR TO INSTALL CLEANOUTS AT THE END OF ALL SEWER LATERALS, PER LATERAL DETAIL SHEET C4.20.
- 3. NO VERTICAL STACKS ALLOWED FOR ANY LOTS UNLESS OTHERWISE SPECIFIED BY THE ENGINEER.
- ALL 6" SEWER LATERALS WILL BE SET AT 2% GRADE FROM THE MAIN TO THE PROPERTY LINE.
- WHEN HORIZONTAL DISTANCE BETWEEN SEWER PIPES AND WATER MAIN IS LESS THAN 9 FOOT OF SEPARATION, SEWER MAIN SHALL BE INSTALLED WITH 150 PSI (MIN) PRESSURE PIPE AND FITTINGS IN ACCORDANCE WITH SAWS CONSTRUCTION CRITERIA FOR CONSTRUCTION OF SEWER MAINS IN THE VICINITY OF WATER MAINS.
- 6. CONTRACTOR SHALL ENSURE THAT MANHOLES OUTSIDE OF PAVED AREAS ARE SET WITH TOP ELEVATIONS 6" ABOVE FINISHED GRADE WITH CONCRETE
- 7. ALL SEWER PIPES SHALL BE 8" PVC (SDR 26), UNLESS OTHERWISE NOTED.
- 8. CONTRACTOR IS TO VERIFY EXISTING INVERT OF EXISTING SANITARY SEWER MAINS AND ALERT ENGINEER IMMEDIATELY OF ANY DIFFERENCE FROM INVERT SHOWN ON PLANS.
- 9. CONTRACTOR SHALL PROTECT ALL EXISTING FENCES. ANY FENCE DAMAGED BY THE CONTRACTOR SHALL BE REPAIRED BY THE CONTRACTOR AT THEIR
- 10. THE CONTRACTOR WILL BE RESPONSIBLE FOR DETERMINING EXACT LOCATION OF ALL UTILITIES AND DRAINAGE STRUCTURES WHETHER SHOWN ON THE PLANS OR NOT. THE CONTRACTOR SHALL UNCOVER EXISTING UTILITIES PRIOR TO CONSTRUCTION TO VERIFY SIZE, GRADE, AND LOCATION. TH CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY OF ANY DEVIATIONS FROM PLANS PRIOR TO BEGINNING CONSTRUCTION. ANY DAMAGE TO EXISTING UTILITIES, WHETHER SHOWN ON THE PLANS OR NOT, SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO REPAIR, AT HIS EXPENSE.
- 11. CONCRETE RING ENCASEMENT TO BE INSTALLED ON ALL MANHOLES AND, WITHIN LIMITS OF PAVEMENT, BE INSTALLED TO THE TOP OF THE BASE LAYER WITH A MINIMUM OF 2" OF ASPHALT ON TOP OF THE RING
- 12. MANHOLE OPENING INCREASED TO 30" AS PER TAC CHAPTER 217.55.
- 13. ALL SEWER PIPE LATERALS SHALL BE SDR 26 (CLASS 160) PVC PIPE.
- 14. IF THE GIVEN TOP OF MANHOLE ELEVATION DOES NOT AGREE ON ACTUAL GROUND SURFACE OR FINISH PAVEMENT, THE CONTRACTOR SHALL ADJUST ELEVATIONS SUCH THAT THE TOP OF MANHOLE SHALL BE 0.5' ABOVE EXISTING GROUND, OR FLUSH TO FINISH ASPHALT PAVEMENT.
- 15. ALL MANHOLES CONSTRUCTED OVER THE EDWARDS AQUIFER RECHARGE ZONE SHOULD BE WATERTIGHT.

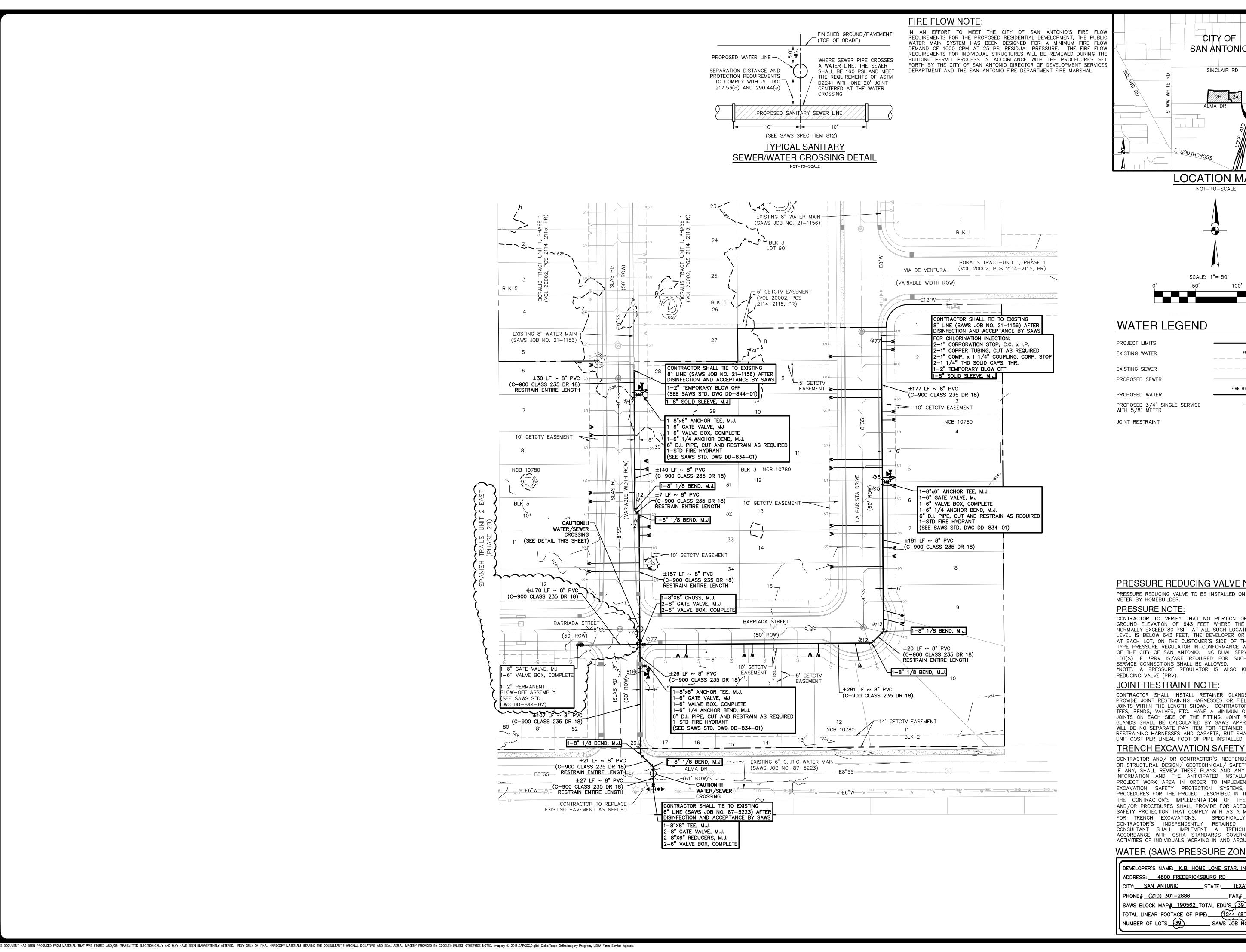
WASTEWATER COLLECTION LOWER WASTEWATER TREATMENT DOS RIOS/LEON CREEK

DEVELOPER'S NAME: K.B. HOME LONE STAR. INC. ADDRESS: 4800 FREDERICKSBURG RD CITY: SAN ANTONIO STATE: TEXAS ZIP: 78229 PHONE# (210) 301-2886 FAX# (210) 366-2378 SAWS BLOCK MAP# 190562 TOTAL EDU'S 120 TOTAL ACREAGE 20.6 TOTAL LINEAR FOOTAGE OF PIPE: <u>2562 8"SS</u> PLAT NO. 2<u>2-1180012</u>1 NUMBER OF LOTS <u>120</u> SAWS JOB NO. <u>22-1628</u>



NO 22-1180012 12044-05 DATE SEPTEMBER 2022 DESIGNER





CITY OF SAN ANTONIO SINCLAIR RD 2B 2A

LOCATION MAP NOT-TO-SCALE

5/21/2025

SCALE: 1"= 50'

WATER LEGEND

FIRE HYDRANT ---PROPOSED 3/4" SINGLE SERVICE WITH 5/8" METER

PRESSURE REDUCING VALVE NOTE:

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

PRESSURE NOTE:

CONTRACTOR TO VERIFY THAT NO PORTION OF THE TRACT IS BELOW GROUND ELEVATION OF 643 FEET WHERE THE STATIC PRESSURE WILL NORMALLY EXCEED 80 PSI. AT ALL SUCH LOCATIONS WHERE THE GROUND LEVEL IS BELOW 643 FEET, THE DEVELOPER OR BUILDER SHALL INSTALL AT EACH LOT, ON THE CUSTOMER'S SIDE OF THE METER, AN APPROVED TYPE PRESSURE REGULATOR IN CONFORMANCE WITH THE PLUMBING CODE OF THE CITY OF SAN ANTONIO. NO DUAL SERVICES ALLOWED FOR ANY LOT(S) IF *PRV IS/ARE REQUIRED FOR SUCH LOT(S), ONLY SINGLE SERVICE CONNECTIONS SHALL BE ALLOWED. *NOTE: A PRESSURE REGULATOR IS ALSO KNOWN AS A PRESSURE

JOINT RESTRAINT NOTE:

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

TRENCH EXCAVATION SAFETY PROTECTION:

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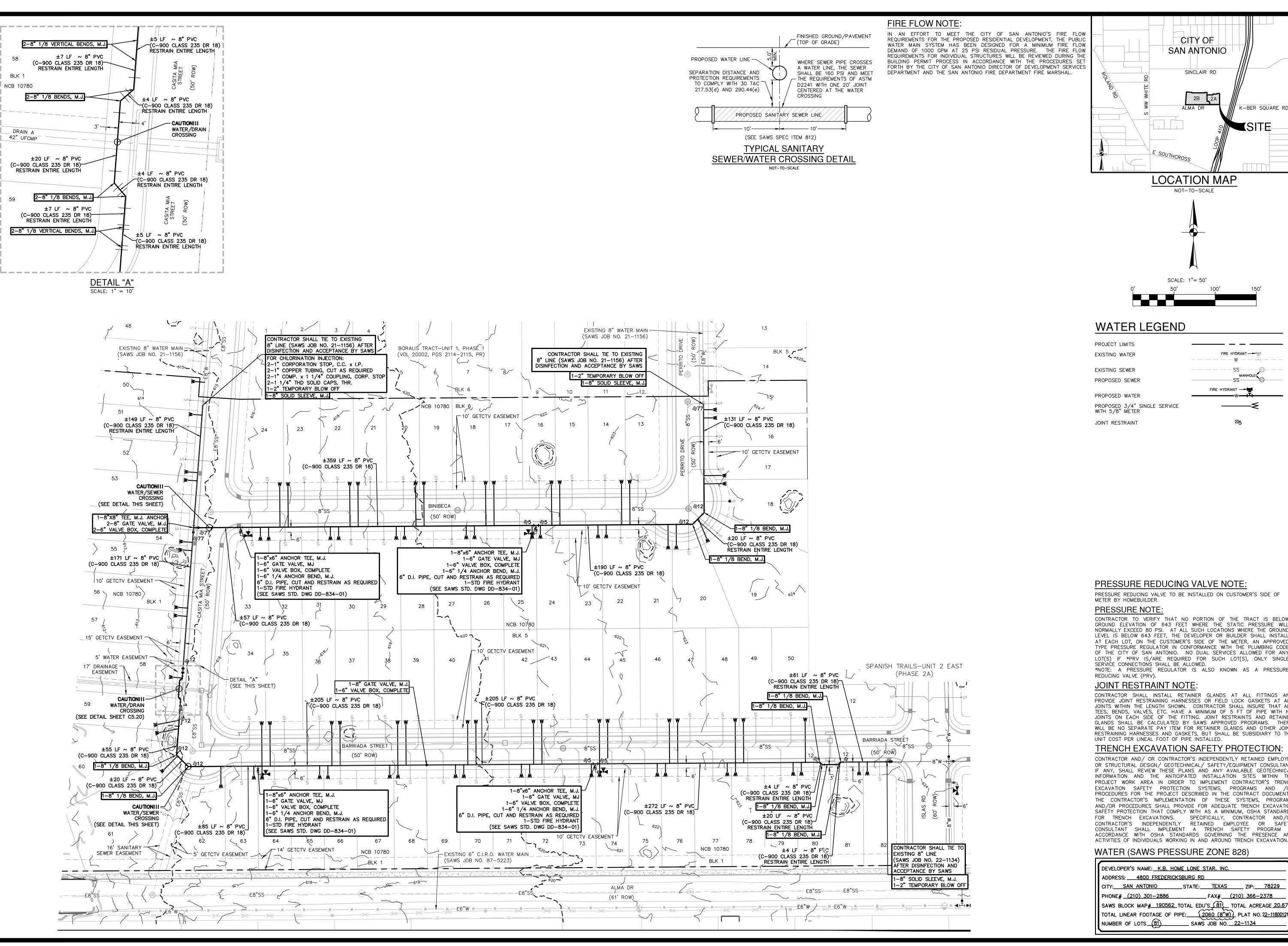
WATER (SAWS PRESSURE ZONE 828)

DEVELOPER'S NAME: K.B. HOME LONE STAR, INC.	$\ \ $
ADDRESS: 4800 FREDERICKSBURG RD	.
CITY: SAN ANTONIO STATE: TEXAS ZIP: 78229	╌║╿
PHONE# <u>(210) 301–2886</u> FAX# <u>(210) 366–2378</u>	.
SAWS BLOCK MAP# 190562 TOTAL EDU'S 39 TOTAL ACREAGE 20.6	<u> </u>
TOTAL LINEAR FOOTAGE OF PIPE: (1244 (8"W)) PLAT NO. 22-118001	
NUMBER OF LOTS 39 SAWS JOB NO. (25-1041)	╻║┃
	<u>ال</u> الم

PLAT NO. 22-1180012

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JOB NO. 12044-05 DATE MAY 2025 DESIGNER CHECKED DRAWN A



CITY OF SAN ANTONIO SINCLAIR RD 28/****2A **LOCATION MAP**

NOT-TO-SCALE



S

5/21/2025

WATER LEGEND

PROJECT LIMITS FIRE HYDRANT ---EXISTING WATER EXISTING SEWER PROPOSED SEWER PROPOSED WATER PROPOSED 3/4" SINGLE SERVICE WITH 5/8" METER JOINT RESTRAINT

PRESSURE REDUCING VALVE NOTE:

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

PRESSURE NOTE

CONTRACTOR TO VERIFY THAT NO PORTION OF THE TRACT IS BELOW GROUND ELEVATION OF 643 FEET WHERE THE STATIC PRESSURE WILL NORMALLY EXCEED 80 PSI. AT ALL SUCH LOCATIONS WHERE THE GROUND LEVEL IS BELOW 643 FEET, THE DEVELOPER OR BUILDER SHALL INSTALL AT EACH LOT, ON THE CUSTOMER'S SIDE OF THE METER, AN APPROVED TYPE PRESSURE REGULATOR IN CONFORMANCE WITH THE PLUMBING CODE OF THE CITY OF SAN ANTONIO. NO DUAL SERVICES ALLOWED FOR ANY LOT(S) IF *PRV IS/ARE REQUIRED FOR SUCH LOT(S), ONLY SINGLE SERVICE CONNECTIONS SHALL BE ALLOWED. *NOTE: A PRESSURE REGULATOR IS ALSO KNOWN AS A PRESSURE

JOINT RESTRAINT NOTE:

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TRENCH EXCAVATION SAFETY PROTECTION:

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

WATER (SAWS PRESSURE ZONE 828)

DEVELOPER'S NAME: K.B. HOME LONE STAR, INC ADDRESS: 4800 FREDERICKSBURG RD CITY: SAN ANTONIO STATE: TEXAS ZIP: 78229 __FAX#<u>(210) 366-2378</u> PHONE# <u>(210) 301-2886</u> SAWS BLOCK MAP# 190562 TOTAL EDU'S 81 TOTAL ACREAGE 20.6 TOTAL LINEAR FOOTAGE OF PIPE: (2060 (8"W)) PLAT NO. 22-11800121 NUMBER OF LOTS 81 _ SAWS JOB NO. 22-1134

NO. 22-1180012 12044-05 MAY 2025

DRAWN A <u>~~~~~</u> C5.00B

	SAWS CONSTRUCTION NOTES (LAST REVISED JULY 2017)
	SAWS GENERAL SECTION
	1. ALL MATERIALS AND CONSTRUCTION PROCEDURES WITHIN THE SCOPE OF THIS CONTRACT SHALL BE APPROVED BY THE SAN ANTONIO WATER SYSTEM (SAWS) AND COMPLY WITH THE PLANS, SPECIFICATIONS, GENERAL CONDITIONS AND WITH THE FOLLOWING AS APPLICABLE:
	A. CURRENT TEXAS COMMISSION ON ENVIRONMENTAL QUALITY (TCEQ) "DESIGN CRITERIA FOR DOMESTIC WASTEWATER SYSTEM", TEXAS ADMINISTRATIVE CODE (TAC) TITLE 30 PART 1 CHAPTER 217 AND "PUBLIC DRINKING WATER", TAC TITLE 30 PART 1 CHAPTER 290. B. CURRENT TXDOT "STANDARD SPECIFICATIONS FOR CONSTRUCTION OF HIGHWAYS, STREETS AND DRAINAGE". C. CURRENT "SAN ANTONIO WATER SYSTEM STANDARD SPECIFICATIONS FOR WATER AND SANITARY SEWER CONSTRUCTION". D. CURRENT CITY OF SAN ANTONIO "STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION". E. CURRENT CITY OF SAN ANTONIO "UTILITY EXCAVATION CRITERIA MANUAL" (UECM).
	2. THE CONTRACTOR SHALL NOT PROCEED WITH ANY PIPE INSTALLATION WORK UNTIL THEY OBTAIN A COPY OF THE APPROVED COUNTER PERMIT OR GENERAL CONSTRUCTION PERMIT (GCP) FROM THE CONSULTANT AND HAS BEEN NOTIFIED BY SAWS CONSTRUCTION INSPECTION DIVISION TO PROCEED WITH THE WORK AND HAS ARRANGED A MEETING WITH THE INSPECTOR AND CONSULTANT FOR THE WORK REQUIREMENTS. WORK COMPLETED BY THE CONTRACTOR WITHOUT AN APPROVED COUNTER PERMIT AND/OR A GCP WILL BE SUBJECT TO REMOVAL AND REPLACEMENT AT THE EXPENSE OF THE CONTRACTORS AND/OR THE DEVELOPER.
	3. THE CONTRACTOR SHALL OBTAIN THE SAWS STANDARD DETAILS FROM THE SAWS WEBSITE, HTTP://www.saws.org/business_center/specs. unless otherwise noted within the design plans.
	4. THE CONTRACTOR IS TO MAKE ARRANGEMENTS WITH THE SAWS CONSTRUCTION INSPECTION DIVISION AT (210) 233-2973, ON NOTIFICATION PROCEDURES THAT WILL BE USED TO NOTIFY AFFECTED HOME RESIDENTS AND/OR PROPERTY OWNERS 48 HOURS PRIOR TO BEGINNING ANY WORK.
	5. LOCATION AND DEPTH OF EXISTING UTILITIES AND SERVICE LATERALS SHOWN ON THE PLANS ARE UNDERSTOOD TO BE APPROXIMATE. ACTUAL LOCATIONS AND DEPTHS MUST BE FIELD VERIFIED BY THE CONTRACTOR AT LEAST 1 WEEK PRIOR TO CONSTRUCTION. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO LOCATE UTILITY SERVICE LINES AS REQUIRED FOR CONSTRUCTION AND TO PROTECT THEM DURING CONSTRUCTION AT NO COST TO SAWS.
	6. THE CONTRACTOR SHALL VERIFY THE EXACT LOCATION OF UNDERGROUND UTILITIES AND DRAINAGE STRUCTURES AT LEAST 1-2 WEEKS PRIOR TO CONSTRUCTION WHETHER SHOWN ON PLANS OR NOT. PLEASE ALLOW UP TO 7 BUSINESS DAYS FOR LOCATES REQUESTING PIPE LOCATION MARKERS ON SAWS FACILITIES. THE FOLLOWING CONTACT INFORMATION ARE SUPPLIED FOR VERIFICATION PURPOSES:
	 SAWS UTILITY LOCATES: HTTP: //WWW.SAWS.ORG/SERVICE/LOCATES COSA DRAINAGE (210) 207-0724 OR (210) 207-6026 COSA TRAFFIC SIGNAL OPERATIONS (210) 206-8480 COSA TRAFFIC SIGNAL DAMAGES (210) 207-3951 TEXAS STATE WIDE ONE CALL LOCATOR 1-800-545-6005 OR 811
	7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR RESTORING EXISTING FENCES, CURBS, STREETS, DRIVEWAYS, SIDEWALKS, LANDSCAPING AND STRUCTURES TO ITS ORIGINAL OR BETTER CONDITION IF DAMAGES ARE MADE AS A RESULT OF THE PROJECT'S CONSTRUCTION.
	8. ALL WORK IN TEXAS DEPARTMENT OF TRANSPORTATION (TXDOT) AND/OR BEXAR COUNTY RIGHT-OF-WAY SHALL BE DONE IN ACCORDANCE WITH RESPECTIVE CONSTRUCTION SPECIFICATIONS AND PERMIT REQUIREMENTS.
	9. THE CONTRACTOR SHALL COMPLY WITH CITY OF SAN ANTONIO OR OTHER GOVERNING MUNICIPALITY'S TREE ORDINANCES WHEN EXCAVATING NEAR TREES.
	10. THE CONTRACTOR SHALL NOT PLACE ANY WASTE MATERIALS IN THE 100—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. 11. ANY AND ALL SAWS UTILITY WORK INSTALLED WITHOUT HOLIDAY/WEEKEND
	APPROVAL WILL BE SUBJECT TO BE UNCOVERED FOR PROPER INSPECTION. 12. COMPACTION NOTE (ITEM 804): THE CONTRACTOR SHALL BE RESPONSIBLE FOR
	MEETING THE COMPACTION RÉQUIREMENTS ON ALL TRENCH BACKFILL AND FOR PAYING FOR THE TESTS PERFORMED BY A THIRD PARTY. COMPACTION TESTS WILL BE DONE AT ONE LOCATION POINT RANDOMLY SELECTED, OR AS INDICATED BY THE SAWS INSPECTOR AND/OR THE TEST ADMINISTRATOR, PER EACH 12—INCH LOOSE LIFT PER 400 LINEAR FEET AT A MINIMUM. THIS PROJECT WILL NOT BE ACCEPTED AND FINALIZED BY SAWS WITHOUT THIS REQUIREMENT BEING MET AND VERIFIED BY PROVIDING ALL NECESSARY DOCUMENTED TEST RESULTS.
	13. A COPY OF ALL TESTING REPORTS SHALL BE FORWARDED TO SAWS CONSTRUCTION INSPECTION DIVISION.

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SAWS CONSTRUCTION NOTES (LAST REVISED JULY 2017)

ENERAL SECTION

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

SAWS WATER NOTES

- PRIOR TO TIE-INS, ANY SHUTDOWNS OF EXISTING MAINS OF ANY SIZE MUST | 1. MACHINE CHLORINATION BY THE S.A.W.S. BE COORDINATED WITH THE SAWS CONSTRUCTION INSPECTION DIVISION AT LEAST ONE WEEK IN ADVANCE OF THE SHUTDOWN. THE CONTRACTOR MUST ALSO PROVIDE A SEQUENCE OF WORK AS RELATED TO THE TIE-INS; THIS IS AT NO ADDITIONAL COST TO SAWS OR THE PROJECT AND IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO SEQUENCE THE WORK 3. ALL MAINS SHALL BE HYDROSTATICALLY TESTED BY THE CONTRACTOR, AS ACCORDINGLY.
 - FOR WATER MAINS 12" OR HIGHER: SAWS EMERGENCY OPERATIONS CENTER (210) 233-2014
- ASBESTOS CEMENT (AC) PIPE, ALSO KNOWN AS TRANSITE PIPE WHICH IS KNOWN TO CONTAIN ASBESTOS- CONTAINING MATERIAL (ACM), MAY BE LOCATED WITHIN THE PROJECT LIMITS. SPECIAL WASTE MANAGEMENT PROCEDURES AND HEALTH AND SAFETY REQUIREMENTS WILL BE APPLICABLE WHEN REMOVAL AND/OR DISTURBANCE OF THIS PIPE OCCURS. SUCH WORK IS TO BE MADE UNDER SPECIAL SPECIFICATION ITEM NO. 3000, "SPECIAL SPECIFICATION FOR HANDLING ASBESTOS CEMENT PIPE".
- VALVE REMOVAL: WHERE THE CONTRACTOR IS TO ABANDON A WATER MAIN, THE CONTROL VALVE LOCATED ON THE ABANDONING BRANCH WILL BE REMOVED AND REPLACED WITH A CAP/PLUG. (NSPI)
- SUITABLE ANCHORAGE/THRUST BLOCKING OR JOINT RESTRAINT SHALL BE PROVIDED AT ALL OF THE FOLLOWING MAIN LOCATIONS: DEAD ENDS, PLUGS, CAPS, TEES, CROSSES, VALVES, AND BENDS, IN ACCORDANCE WITH THE STANDARD DRAWINGS DD-839 SERIES AND ITEM NO. 839, IN THE SAWS STANDARD SPECIFICATIONS FOR CONSTRUCTION.
- 5. ALL VALVES SHALL READ "OPEN RIGHT".
- 3. PRVS REQUIRED: CONTRACTOR TO VERIFY THAT NO PORTION OF THE TRACT IS BELOW GROUND ELEVATION OF 643 FEET WHERE THE STATIC PRESSURE WILL NORMALLY EXCEED 80 PSI. AT ALL SUCH LOCATIONS WHERE THE GROUND LEVEL IS BELOW 643 FEET, THE DEVELOPER OR BUILDER SHALL INSTALL AT EACH LOT, ON THE CUSTOMER'S SIDE OF THE METER, AN APPROVED TYPE PRESSURE REGULATOR IN CONFORMANCE WITH THE PLUMBING CODE OF THE CITY OF SAN ANTONIO. NO DUAL SERVICES ALLOWED FOR ANY LOT(S) IF *PRV IS/ARE REQUIRED FOR SUCH LOT(S), ONLY SINGLE SERVICE CONNECTIONS SHALL BE ALLOWED. *NOTE: A PRESSURE REGULATOR IS ALSO KNOWN AS A PRESSURE REDUCING VALVE
- PIPE DISINFECTION WITH DRY HTH FOR PROJECTS LESS THAN 800 LINEAR (ITEM NO. 847.3): MAINS SHALL BE DISINFECTED WITH DRY HTH WHERE SHOWN IN THE CONTRACT DOCUMENTS OR AS DIRECTED BY THE INSPECTOR, AND SHALL NOT EXCEED A TOTAL LENGTH OF 800 FEET. THIS METHOD OF DISINFECTION WILL ALSO BE FOLLOWED FOR MAIN REPAIRS. THE CONTRACTOR SHALL UTILIZE ALL APPROPRIATE SAFETY MEASURE TO PROTECT HIS PERSONNEL DURING DISINFECTION OPERATIONS.
- 8. BACKFLOW PREVENTION DEVICES:
- ALL IRRIGATION SERVICES WITHIN RESIDENTIAL AREAS ARE REQUIRED TO HAVE BACKFLOW PREVENTION DEVICES.
- ALL COMMERCIAL BACKFLOW PREVENTION DEVICES MUST BE APPROVED BY SAWS PRIOR TO INSTALLATION.
- FINAL CONNECTION TO THE EXISTING WATER MAIN SHALL NOT BE MADE 14. SAWS REQUIRES LEAD FREE (< 0.25%) FIRE HYDRANTS. UNTIL THE WATER MAIN HAS BEEN PRESSURE TESTED, CHLORINATED, AND SAWS HAS RELEASED THE MAIN FOR TIE-IN AND USE.

PROJECT WATER NOTES

PROVIDED FOR IN THE SPECIAL CONDITIONS.

- ALL 8", 12" AND 16" PIPE SHALL BE P.V.C. C-900 CLASS 235 DR 18.
- THE WATER LINES WILL BE SET FROM THE STREET HUBS BEFORE THIS CONTRACT BEGINS. STREET CUT SHEETS WILL BE SUPPLIED TO THE CONTRACTOR. THERE SHOULD BE NO ADDITIONAL STAKES REQUIRED, AND I SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO INSPECT THE SITE AND VERIFY THAT ALL STAKES REQUIRED FOR HIS WORK ARE IN PLACE AT THE TIME THE CONSTRUCTION BEGINS. IF ANY STAKES ARE MISSING THE ENGINEER SHOULD BE NOTIFIED IMMEDIATELY. AFTER CONSTRUCTION BEGINS, ALL CONSTRUCTION STAKES, MARKS, ETC., SHALL BE CAREFULLY PRESERVED BY THE CONTRACTOR, AND IN CASE OF DESTRUCTION OR REMOVAL BY THE CONTRACTOR, HIS EMPLOYEE OR ANY OTHER MEANS, SUCH STAKES, MARKS, ETC., SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.
- THE CONTRACTOR SHALL FURNISH THE ENGINEER WITH ALL THE FINAL MEASUREMENTS, TAPS AND LENGTH OF SERVICE CONNECTIONS.
- THE LOT CORNERS WILL BE SET BY THE ENGINEER FOR INSTALLATION OF ALL WATER SERVICES. THESE LOT CORNERS SHALL BE CAREFULLY PRESERVED BY THE CONTRACTOR SO THE METER BOXES CAN BE SET IN PHASE II. ANY LOT CORNER DESTROYED OR REMOVED BY THE CONTRACTOR, HIS EMPLOYEES, OR BY ANY OTHER MEANS SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.
- STREETS WILL HAVE BEEN EXCAVATED DOWN TO SUBGRADE AND TH PARKWAY WILL BE CUT DOWN TO TOP OF CURB BY THE STREET CONTRACTOR, PRIOR TO CONSTRUCTION OF THE WATER MAINS. IT WILL BE THE UTILITY CONTRACTOR'S RESPONSIBILITY TO PROVIDE A PAD FOR HIS EQUIPMENT.
- 8. WATER METER BOXES IF APPLICABLE SHALL BE INSTALLED NINE FEET FROM FACE OF CURB TO CENTER OF THE METER BOX.
- 9. ALL GARBAGE OR SPOIL MATERIAL FROM THIS WORK SHALL BE REMOVED FROM THE SITE BY THE CONTRACTOR, AT HIS EXPENSE.
- O. FINAL CONNECTION TO THE EXISTING WATER MAIN SHALL NOT BE MADE UNTIL WATER MAIN HAS BEEN PRESSURE TESTED, CHLORINATED AND THE S.A.W.S. RELEASES THE MAIN FOR TIE-IN AND USE.
- UNIT PRICE BID FOR "STANDARD FIRE HYDRANT ASSEMBLY" SHALL INCLUDE FIRE HYDRANT, 6-INCH GATE VALVE AND 6-INCH VALVE BOX COMPLETE, ANCHOR BEND, AND ALL 6-INCH DI PIPE REQUIRED (DI PIPE REQUIRED SHALL INCLUDE ALL PIPE FROM THE TEE ON THE MAIN LINE TO THE FIRE HYDRANT).
- 2. WHEN SEWER LINES ARE INSTALLED IN THE VICINITY OF WATER MAINS, SUCH INSTALLATION SHALL BE IN STRICT ACCORDANCE WITH THE TEXAS NATURAL RESOURCE CONSERVATION COMMISSION "RULES AND REGULATIONS FOR PUBLIC WATER SYSTEMS" (1988 OR ANY REVISIONS THERETO).
- 13. A CLEAR SPACE SHALL BE PROVIDED AROUND ALL FIRE HYDRANTS. THIS AREA SHOULD HAVE A MINIMUM DIAMETER OF 3.0' AND BE CLEAN OF VERTICAL OBSTRUCTIONS, VALVES, AND METER BOXES.
- 15. UNLESS OTHERWISE NOTED ALL SERVICES SHALL BE 3/4" WITH 5/8" METER.

9/22/2022



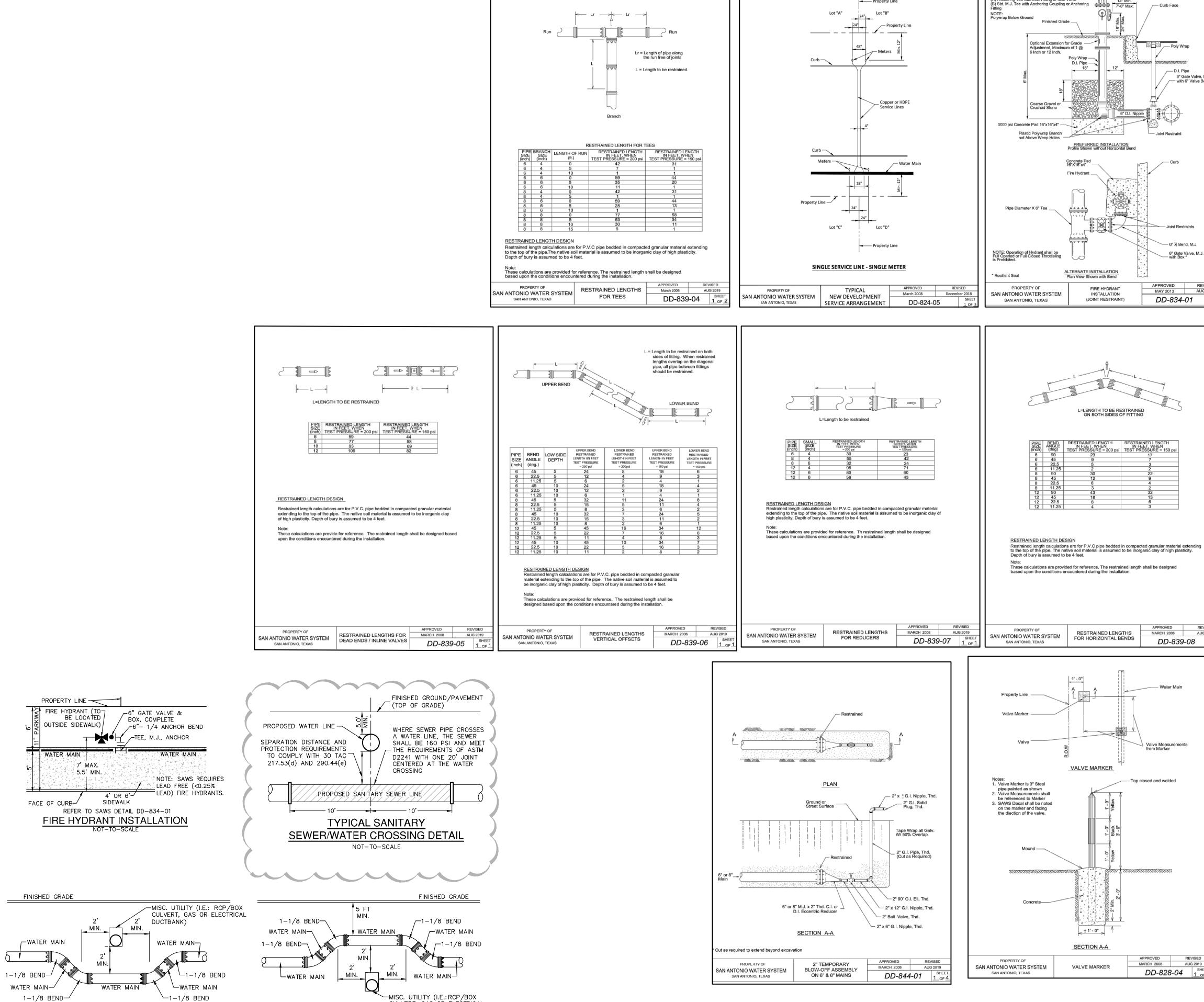
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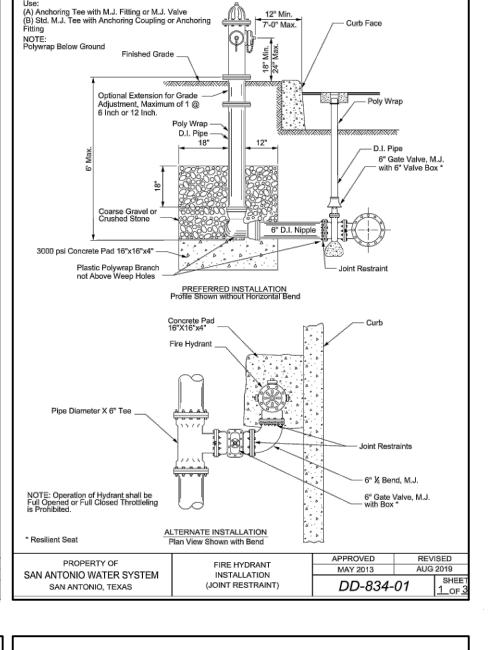
WATER (SAWS PRESSURE ZONE 828)

DEVELOPER'S NAME: K.B. HOME LONE STAR. INC ADDRESS: 4800 FREDERICKSBURG RD CITY: SAN ANTONIO STATE: TEXAS ZIP: 78229 PHONE# (210) 301-2886 FAX# (210) 366-2378 SAWS BLOCK MAP# 190562 TOTAL EDU'S 120 TOTAL ACREAGE 20.67 TOTAL LINEAR FOOTAGE OF PIPE: 3304 8"W PLAT NO. 22-11800121

NUMBER OF LOTS 120 SAWS JOB NO. 22-1134

NO 22-1180012 12044-05





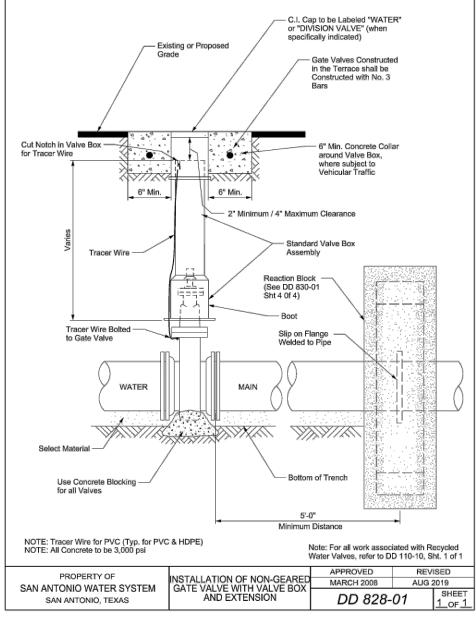
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_{NO.} 22-1180012 DEVELOPER'S NAME: K.B. HOME LONE STAR. INC. ADDRESS: 4800 FREDERICKSBURG RD 12044-05 DATE SEPTEMBER 2022 _____FAX# <u>(210) 366–2378</u> DESIGNER DRAWN A

CITY: SAN ANTONIO STATE: TEXAS ZIP: 78229 PHONE# (210) 301-2886 SAWS BLOCK MAP# 190562 TOTAL EDU'S 120 TOTAL ACREAGE 20.67 TOTAL LINEAR FOOTAGE OF PIPE: 3304 8"W PLAT NO. 22-1180012 NUMBER OF LOTS 120 SAWS JOB NO. 22-1134

WATER (SAWS PRESSURE ZONE 828)

ALL JOINTS ARE FULLY RESTRAINED IN

TABLE DD-839-06.

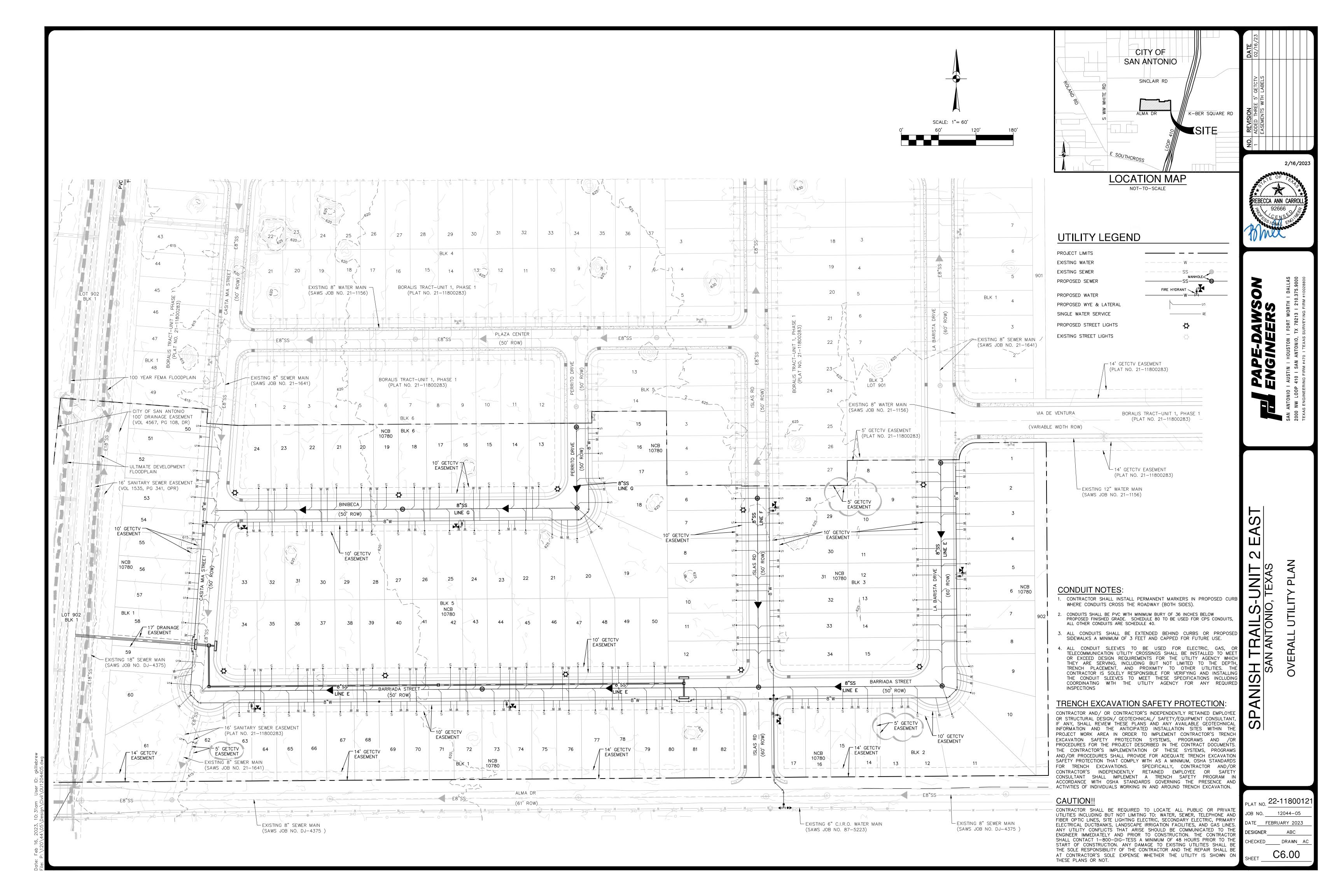
ACCORDANCE WITH SAWS SPECIFICATION

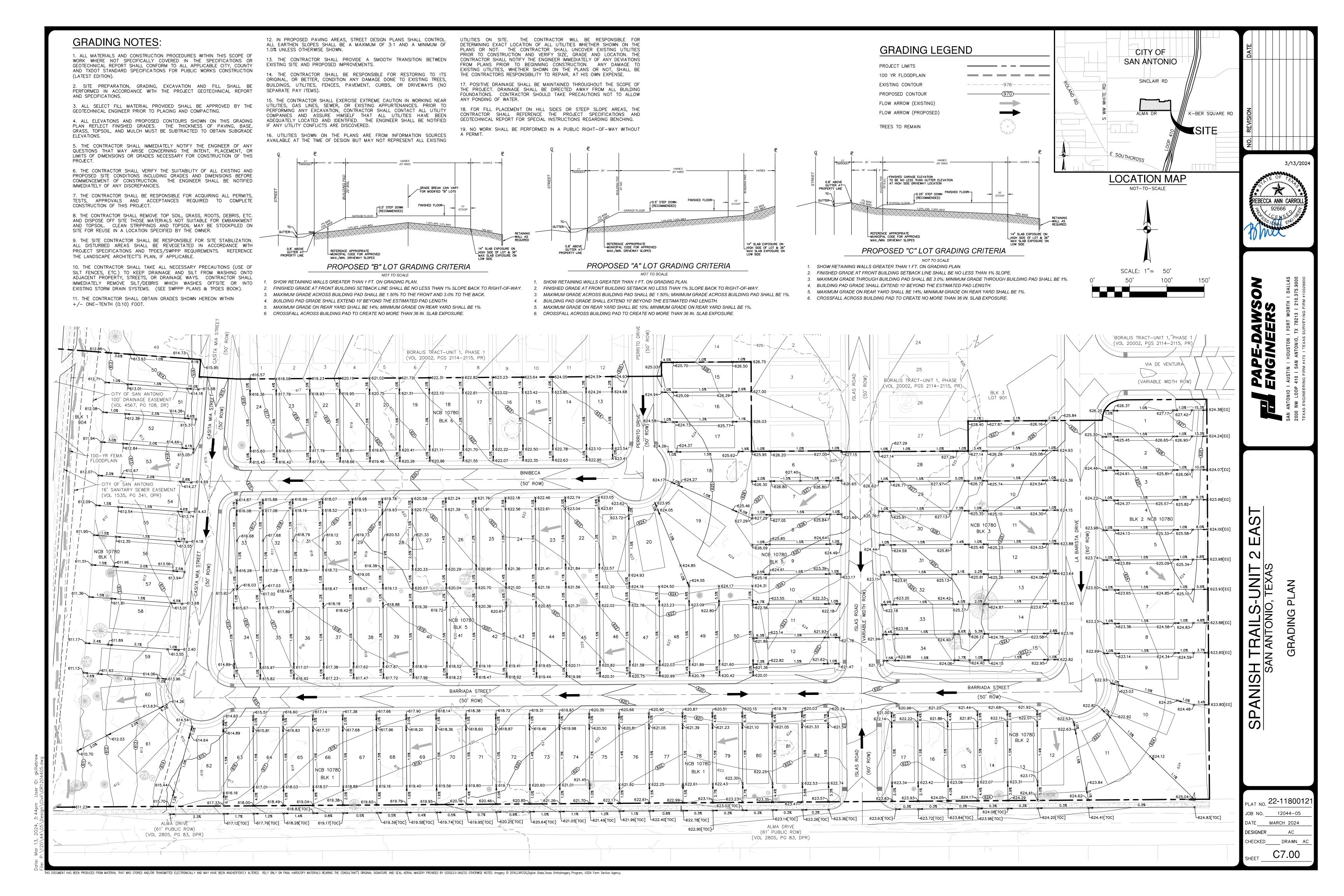
TYPICAL UTILITY/WATER CROSSING DETAIL

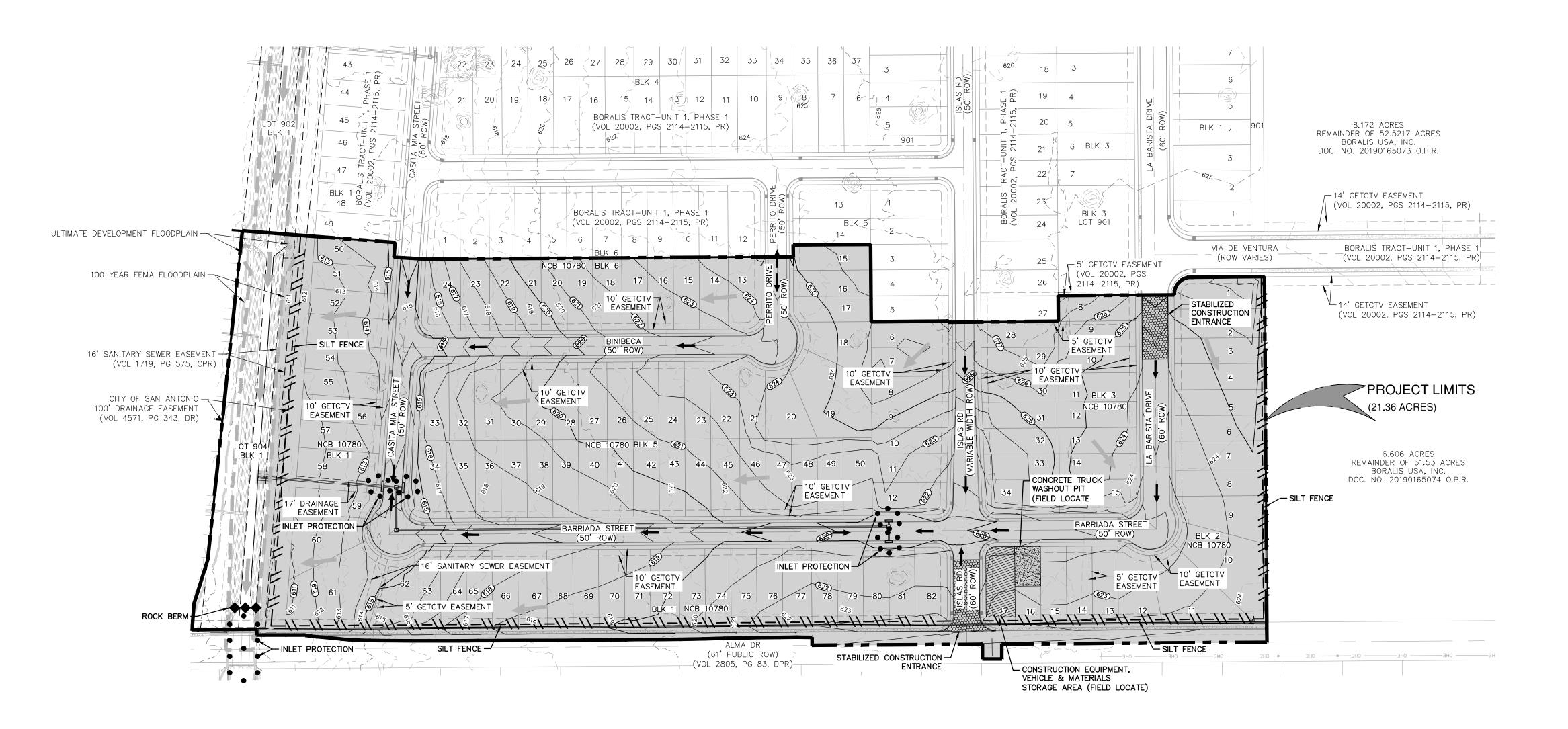
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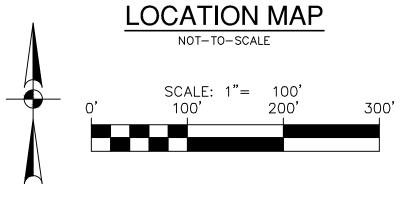
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SWPPP LEGEND

	_
PROJECT LIMITS	
UNIT BOUNDARY	
EXISTING CONTOUR	
PROPOSED CONTOUR	
FLOW ARROW (EXISTING)	-
FLOW ARROW (PROPOSED)	→
SILT FENCE	-//-//-//-//-
ROCK BERM	***
GRAVEL FILTER BAGS	•••
GRATE INLET PROTECTION	• •
VERTS OF STAFURBEREAREA (±20.21	AC)

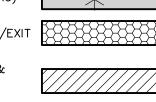
MATE OF STATUS BEBEAREA (±20.21 AC)
NEEDED FOR THESE LOTS

STABILIZED CONSTRUCTION ENTRANCE/EXIT
(FIELD LOCATE)

STABILIZED CONSTRUCTION ENTRANCE/EX (FIELD LOCATE)

CONSTRUCTION EQUIPMENT, VEHICLE &
MATERIALS STORAGE AREA
(FIELD LOCATE)

CONCRETE TRUCK WASH-OUT PIT
(FIELD LOCATE)



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 POLLUTIC PREVENTION CONTROLS REFER TO THE TPDES STORM WATER POLLUTIC 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 COINCIDE WITH THE DISTURBANCE OF UPGRADIENT AREAS.

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

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

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

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

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.

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SCHEMATIC OF TEMPORARY CONSTRUCTION ENTRANCE/EXIT

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

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

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

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

INSTALLATION

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

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

3. THE CONSTRUCTION ENTRANCE SHOULD BE AT LEAST 50 FEET LONG. 4. IF THE SLOPE TOWARD THE ROAD EXCEEDS 2%, CONSTRUCT A RIDGE 6-INCHES TO 8-INCHES HIGH WITH 3:1 (H:V) SIDE SLOPES. ACROSS THE FOUNDATION APPROXIMATELY 15 FEET FROM THE ENTRANCE TO DIVERT RUNOFF AWAY FROM THE PUBLIC ROAD.

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

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

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

PIPE UNDER PAD AS NEEDED TO MAINTAIN PROPER PUBLIC ROAD

GEOTEXTILE FABRIC TO STABILIZE FOUNDATION

ISOMETRIC PLAN VIEW

WOVEN WIRE

SHEATHING

WOVEN WIRE SHEATHING

SECTION "A-A"

ROCK BERMS

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

INSPECTION AND MAINTENANCE GUIDELINES . INSPECTION SHOULD BE MADE WEEKLY AND AFTER EACH RAINFALL BY THE

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

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

3. REPAIR ANY LOOSE WIRE SHEATHING.

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

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

MATERIALS THE BERM STRUCTURE SHOULD BE SECURED WITH A WOVEN WIRE

SHEATHING HAVING MAXIMUM OPENING OF 1 INCH AND A MINIMUM WIRE DIAMETER OF 20 GAUGE GALVANIZED AND SHOULD BE SECURED WITH SHOAT 2. CLEAN, OPEN GRADED 3-INCH TO 5-INCH DIAMETER ROCK SHOULD BE USED, EXCEPT IN AREAS WHERE HIGH VELOCITIES OR LARGE VOLUMES OF FLOW ARE EXPECTED, WHERE 5-INCH TO 8-INCH DIAMETER ROCKS MAY BE

INSTALLATION

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

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

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

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

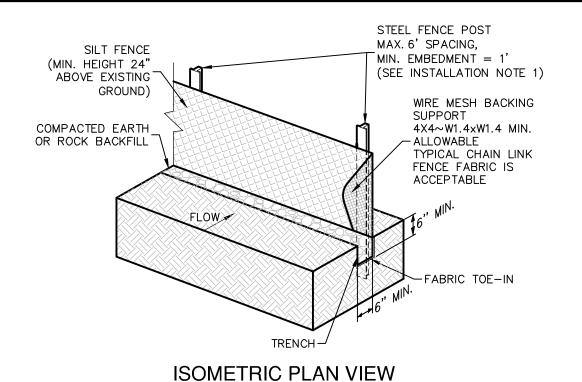
COMMON TROUBLE POINTS

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

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

ROCK BERM DETAIL

NOT-TO-SCALE



STABILIZED CONSTRUCTION ENTRANCE/EXIT DETAIL

NOT-TO-SCALE

LAY SOD IN A STAGGERED PATTERN. BUTT THE STRIPS TIGHTLY AGAINST EACH OTHER. DO NOT LEAVE SPACES AND DO NOT

ENDS AND TRIMMING PIECES. ANGLED ENDS CAUSED BY THE AUTOMATIC SOD CUTTER MUST BE MATCHED

MATERIALS

OF 36 HOURS.

SHOOT GROWTH AND THATCH.

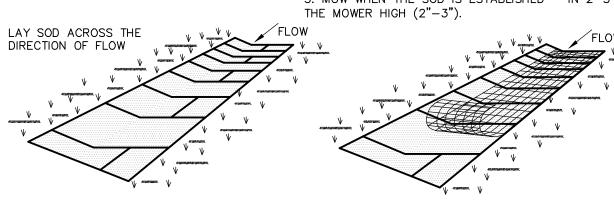
SITE PREPARATION

OVERLAP. A SHARPENED MASON'S TROWEL IS A HANDY TOOL FOR TUCKING DOWN THE APPEARANCE OF GOOD SOD

 ROLL SOD IMMEDIATELY TO ACHIEVE FIRM CONTACT WITH THE SOIL.

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

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



1. SOD SHOULD BE MACHINE CUT AT A UNIFORM SOIL THICKNESS OF 3/4" INCH

(± 1/4" INCH) AT THE TIME OF CUTTING. THIS THICKNESS SHOULD EXCLUDE

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

STANDARD SIZE SECTIONS OF SOD SHOULD BE STRONG ENOUGH TO

SUPPORT THEIR OWN WEIGHT AND RETAIN THEIR SIZE AND SHAPE WHEN

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

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

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

FERTILIZE ACCORDING TO SOIL TESTS. FERTILIZER NEEDS CAN BE

DETERMINED BY A SOIL TESTING LABORATORY OR REGIONAL RECOMMENDATIONS CAN BE MADE BY COUNTY AGRICULTURAL EXTENSION AGENTS. FERTILIZER

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

FINAL HARROWING OR DISCING OPERATION SHOULD BE ON THE CONTOUR.

SPRINGTOOTH HARROW OR OTHER SUITABLE EQUIPMENT. ON SLOPING LAND, THE

SOD STRIPS IN WATERWAYS SHOULD BE LAID PERPENDICULAR TO THE

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

2. AFTER ROLLING OR TAMPING, SOD SHOULD BE PEGGED OR STAPLED TO

RESIST WASHOUT DURING THE ESTABLISHMENT PERIOD. MESH OR OTHER

NETTING MAY BE PEGGED OVER THE SOD FOR EXTRA PROTECTION IN CRITICAL

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

TORN OR UNEVEN PADS SHOULD NOT BE ACCEPTABLE.

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

TO FINAL GRADE IN ACCORDANCE WITH THE APPROVED PLAN.

INSTALLATION IN CHANNELS

TIGHTLY (SEE FIGURE ABOVE).

INTERFERE WITH PLANTING, FERTILIZING OR MAINTENANCE OPERATIONS.

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

GENERAL INSTALLATION (VA. DEPT. OF CONSERVATION, 1992

REDUCE ROOT BURNING AND DIEBACK.

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

SECTION "A-A" OF A

CONSTRUCTION ENTRANCE/EXIT

. STONE TOO SMALL OR GEOTEXTILE FABRIC ABSENT, RESULTS IN MUDDY

. PAD TOO SHORT FOR HEAVY CONSTRUCTION TRAFFIC—EXTEND PAD BEYOND

4. PAD NOT FLARED SUFFICIENTLY AT ROAD SURFACE, RESULTS IN MUD BEING

5. UNSTABLE FOUNDATION - USE GEOTEXTILE FABRIC UNDER PAD AND/OR

THE ENTRANCE SHOULD BE MAINTAINED IN A CONDITION. WHICH WILL

PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY.

THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS

CONDITIONS DEMAND AND REPAIR AND/OR CLEANOUT OF ANY MEASURES

2. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC

3. WHEN NECESSARY, WHEELS SHOULD BE CLEANED TO REMOVE SEDIMENT

4. WHEN WASHING IS REQUIRED. IT SHOULD BE DONE ON AN AREA STABILIZED

WITH CRUSHED STONE THAT DRAINS INTO AN APPROVED SEDIMENT TRAP OR

5. ALL SEDIMENT SHOULD BE PREVENTED FROM ENTERING ANY STORM DRAIN,

INCORRECT

SOD INSTALLATION

USE PEGS OR STAPLES TO FASTEN SOD

FIRMLY - AT THE ENDS OF STRIPS AND

IN THE CENTER, OR EVERY 3-4 FEET IF

THE STRIPS ARE LONG. WHEN READY TO

RIGHTS-OF-WAY SHOULD BE REMOVED IMMEDIATELY BY CONTRACTOR.

INSPECTION AND MAINTENANCE GUIDELINES

1. INADEQUATE RUNOFF CONTROL-SEDIMENT WASHES ONTO PUBLIC ROAD.

COMMON TROUBLE POINTS

CONDITION AS STONE IS PRESSED INTO SOIL.

IMPROVE FOUNDATION DRAINAGE.

LISED TO TRAP SEDIMENT

SHOOTS OR GRASS BLADES.

GRASS SHOULD BE GREEN AND

- THATCH- GRASS CLIPPINGS AND

-ROOT ZONE - SOIL AND ROOTS.

DEAD LEAVES, UP TO 1/2" THICK.

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

DENSE ROOT MAT FOR STRENGTH.

HEALTHY; MOWED AT A 2"-3"

SEDIMENT BASIN

THE MINIMUM 50-FOOT LENGTH AS NECESSARY.

TRACKED ON TO ROAD AND POSSIBLE DAMAGE TO ROAD.

PRIOR TO ENTRANCE ONTO PUBLIC RIGHT-OF-WAY.

DITCH OR WATER COURSE BY USING APPROVED METHODS.

FIRST ROW OF SOD SHOULD BE LAID IN A STRAIGHT LINE WITH SUBSEQUENT ROWS PLACED PARALLEL TO AND BUTTING TIGHTLY AGAINST EACH OTHER. LATERAL JOINTS SHOULD BE STAGGERED TO PROMOTE MORE UNIFORM GROWTH AND STRENGTH. CARE SHOULD BE EXERCISED TO ENSURE THAT SOD IS NOT STRETCHED OR OVERLAPPED AND THAT ALL JOINTS ARE BUTTED TIGHT IN ORDER TO PREVENT VOIDS WHICH WOULD CAUSE DRYING OF THE ROOTS (SEE FIGURE ABOVE).

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

5. AS SODDING OF CLEARLY DEFINED AREAS IS COMPLETED, SOD SHOULD BE ROLLED OR TAMPED TO PROVIDE FIRM CONTACT BETWEEN ROOTS AND SOIL. 6. AFTER ROLLING, SOD SHOULD BE IRRIGATED TO A DEPTH SUFFICIENT THAT THE UNDERSIDE OF THE SOD PAD AND THE SOIL 4 INCHES BELOW THE SOD IS

UNTIL SUCH TIME A GOOD ROOT SYSTEM BECOMES DEVELOPED, IN THE ABSENCE OF ADEQUATE RAINFALL, WATERING SHOULD BE PERFORMED AS OFTEN AS NECESSARY TO MAINTAIN MOIST SOIL TO A DEPTH OF AT LEAST 4

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

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

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

SOD INSTALLATION DETAIL

WHEN PROPERLY USED. SILT FENCES CAN BE HIGHLY EFFECTIVE AT MOW, DRIVE PEGS OR STAPLES FLUSH CONTROLLING SEDIMENT FROM DISTURBED AREAS. THEY CAUSE RUNOFF TO WITH THE GROUND. POND, ALLOWING HEAVIER SOLIDS TO SETTLE OUT. IF NOT PROPERLY INSTALLED, SILT FENCES ARE NOT LIKELY TO BE EFFECTIVE. THE PURPOSE OF A SILT FENCE IS TO INTERCEPT AND DETAIN WATER-BORN

STAPLE

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

A SILT FENCE IS A BARRIER CONSISTING OF GEOTEXTILE FABRIC SUPPORTED

BY METAL POSTS TO PREVENT SOIL AND SEDIMENT LOSS FROM A SITE.

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

SILT FENCE

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

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

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

INSTALLATION

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

2. LAY OUT FENCING DOWN-SLOPE OF DISTURBED AREA, FOLLOWING THE CONTOUR AS CLOSELY AS POSSIBLE. THE FENCE SHOULD BE SITED SO THAT THE MAXIMUM DRAINAGE AREA IS 1/4 ACRE/100 FEET OF FENCE.

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

TO ALLOW FOR THE SILT FENCE FABRIC TO BE LAID IN THE GROUND AND BACKFILLED WITH COMPACTED MATERIAL. 5. SILT FENCE SHOULD BE SECURELY FASTENED TO EACH STEEL SUPPORT POST OR TO WOVEN WIRE, WHICH IS IN TURN ATTACHED TO THE STEEL FENCE POST. THERE SHOULD BE A 3-FOOT OVERLAP, SECURELY FASTENED WHERE

4. THE TRENCH MUST BE A MINIMUM OF 6 INCHES DEEP AND 6 INCHES WIDE

ENDS OF FABRIC MEET 6. SILT FENCE SHOULD BE REMOVED WHEN THE SITE IS COMPLETELY STABILIZED SO AS NOT TO BLOCK OR IMPEDE STORM FLOW OR DRAINAGE.

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

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

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

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

INSPECTION AND MAINTENANCE GUIDELINES 1. INSPECT ALL FENCING WEEKLY, AND AFTER RAINFALL.

2. REMOVE SEDIMENT WHEN BUILDUP REACHES 6 INCHES.

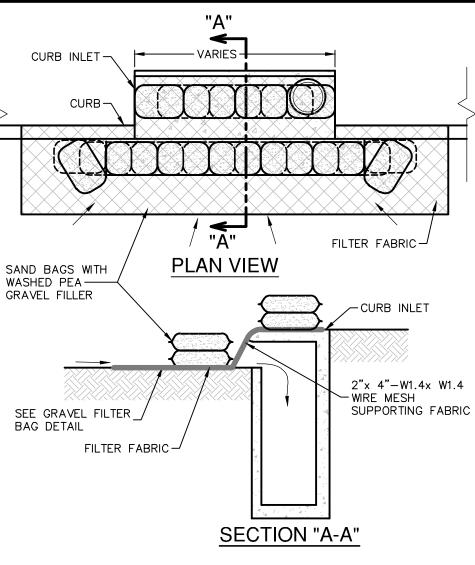
3. REPLACE TORN FABRIC OR INSTALL A SECOND LINE OF FENCING PARALLEL TO THE TORN SECTION.

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

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

SILT FENCE DETAIL

NOT-TO-SCALE



GENERAL NOTES

A MANNER THAT IT WILL NOT ERODE.

CONTRACTOR TO INSTALL 2"x4"-W1.4xW1.4 WIRE MESH SUPPORTING FILTER FABRIC OVER THE INLET OPENING. FABRIC MUST BE SECURED TO WIRE BACKING WITH CLIPS OR WIRE TIES AT THIS LOCATION. SAND BAGS FILLED WITH WASHED PEA GRAVEL SHOULD BE PLACED ON TOP OF WIRE MESH ON TOP OF THE INLET AS SHOWN ON THIS DETAIL TO HOLD WIRE MESH IN PLACE. SANDBAGS FILLED WITH WASHED PEA GRAVEL SHOULD ALSO BE PLACED ALONG THE GUTTER AS SHOWN ON THIS DETAIL TO HOLD WIRE MESH IN PLACE. SAND BAGS TO BE STACKED TO FORM A CONTINUOUS BARRIER AROUND INLETS.

2. THE BAGS SHOULD BE TIGHTLY ABUTTED AGAINST EACH OTHER TO PREVENT RUNOFF FROM FLOWING BETWEEN THE BAGS.

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

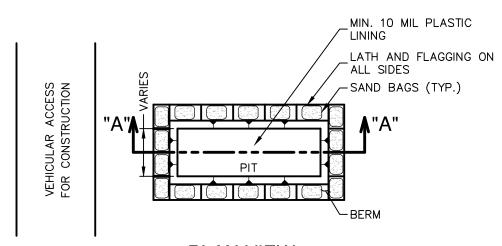
2. REMOVE SEDIMENT WHEN BUILDUP REACHES A DEPTH OF 3 INCHES REMOVED SEDIMENT SHOULD BE DEPOSITED IN A SUITABLE AREA AND IN SUCH

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

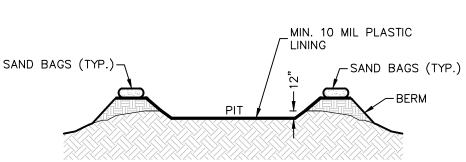
4. INSPECT FILTER FABRIC AND PATCH OR REPLACE IF TORN OR MISSING. . STRUCTURES SHOULD BE REMOVED AND THE AREA STABILIZED ONLY AFTER THE REMAINING DRAINAGE AREA HAS BEEN PROPERLY STABILIZED.

BAGGED GRAVEL CURB INLET PROTECTION DETAIL

NOT-TO-SCALE



PLAN VIEW



SECTION "A-A'

GENERAL NOTES

. DETAIL ABOVE ILLUSTRATES MINIMUM DIMENSIONS. PIT CAN BE INCREASED IN SIZE DEPENDING ON EXPECTED FREQUENCY OF USE. 2. WASHOUT PIT SHALL BE LOCATED IN AN AREA EASILY ACCESSIBLE TO CONSTRUCTION TRAFFIC.

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

TEMPORARY CONCRETE WASHOUT FACILITY SHOULD BE CONSTRUCTED WITH SUFFICIENT QUANTITY AND VOLUME TO CONTAIN ALL LIQUID AND CONCRETE WASTE GENERATED BY WASHOUT OPERATIONS.

MATERIALS

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

MAINTENANCE

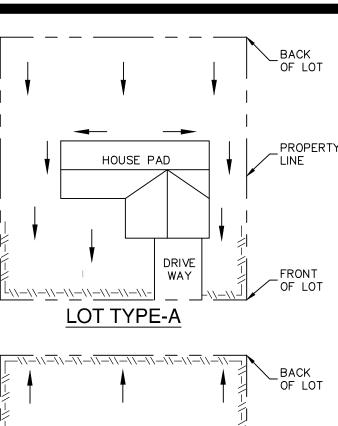
WHEN TEMPORARY CONCRETE WASHOUT FACILITIES ARE NO LONGER REQUIRED FOR THE WORK, THE HARDENED CONCRETE SHOULD BE REMOVED AND DISPOSED OF. MATERIALS USED TO CONSTRUCT TEMPORARY CONCRETE WASHOUT

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

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

CONCRETE TRUCK WASHOUT

PIT DETAIL NOT-TO-SCALE



HOUSE PAD

LOT TYPE-B

HOUSE PAD

LOT TYPE-C

NOTE: SILT FENCE TO BE INSTALLED PER

DOWNGRADIENT SIDE OF EACH LOT LINE

THESE DETAILS AND LOCATED ON THE

OR LIMITS OF CLEARING AS GENERALL'S

SHOWN ON THE OVERALL SITE PLAN.

WAY

WAY

PROPERT'

LEGENI

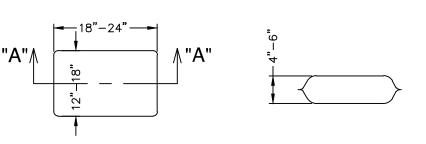
-\\-\\- SILT FENCE

→ DRAINAGE FLOW





TYPICAL HOUSE LOT LAYOUTS NOT-TO-SCALE



PLAN VIEW SECTION "A-A' THE FILTER BAG MATERIAL SHALL BE MADE OF POLYPROPYLENE. POLYETHYLENE OR POLYAMIDE WOVEN FABRIC, MIN. UNIT WEIGHT OF 4

ULTRAVIOLET STABILITY EXCEEDING 70%. THE FILTER BAG SHALL BE FILLED WITH CLEAN, MEDIUM WASHED PEA GRAVEL TO COARSE GRAVEL (0.31 TO 0.75 INCH DIAMETER).

OUNCES/SY, HAVE A MULLEN BURST STRENGTH EXCEEDING 300 PSI AND

3. SAND SHALL <u>NOT</u> BE USED TO FILL THE FILTER BAGS.

GRAVEL FILTER BAG DETAIL NOT-TO-SCALE

CONSTRUCTION EQUIPMENT & VEHICLE STORAGE AN MAINTENANCE AREA OFFICE

-\\-\\- SILT FENCE STORAGE AREA → FLOW ARROWS CONSTRUCTION STAGING AREA

ENTRANCE

NOT-TO-SCALE

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

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

CONSTRUCTION

AND WASTE

MATERIAL

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Z

LEGEND

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NOT-TO-SCALE

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