

STREET AND DRAINAGE CONSTRUCTION PLANS

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GUADALUPE COUNTY MUNICIPAL UTILITY DISTRICT #15

CIVIL CONSTRUCTION DOCUMENTS STETSON RIDGE, UNIT 2

DISTRICT:
GUADALUPE COUNTY MUNICIPAL UTILITY
DISTRICT #15
CONTACT PERSON: JUNIANNE B. KUGLE, SK LAW
1330 POST OAK BLVD, SUITE 2650
HOUSTON, TX 77056
PH: (713) 850-9000

DEVELOPER:
MERITAGE HOMES OF TEXAS, L.L.C.
CONTACT PERSON: TONDA ALEXANDER
2722 W. BITTERS ROAD, SUITE 200
SAN ANTONIO, TX 78248
PH: (210) 298-4294

DESIGN ENGINEER:
CUDE ENGINEERS
CONTACT PERSON: XAVIER VASQUEZ
4122 POND HILL ROAD, SUITE 101
SAN ANTONIO, TEXAS 78231
PHONE :(210) 681-2951

SURVEYOR:
CUDE ENGINEERS
CONTACT PERSON: CHRIS WALTERSCHEIDT
4122 POND HILL ROAD, SUITE 101
SAN ANTONIO, TEXAS 78231
PHONE :(210) 681-2951

DISTRICT ENGINEER:
CUDE ENGINEERS
CONTACT PERSON: JEFFREY McKINNIE
4122 POND HILL ROAD, SUITE 101
SAN ANTONIO, TEXAS 78231
PHONE :(210) 681-2951



DISTRICT NOTES
THE DISTRICT ENGINEER, CUDE ENGINEERS
(JEFFREY McKINNIE, PH:210-681-2951) SHALL BE CONTACTED 48
HOURS PRIOR TO:
i) PRE-CONSTRUCTION MEETINGS;
ii) TESTING OF WATER AND/OR WASTEWATER LINES; AND,
iv) FINAL WALK-THROUGH OF FACILITIES.

LOCATION MAP

N.T.S.

DISTRICT ENGINEER'S APPROVAL

THESE PLANS HAVE BEEN REVIEW AND APPROVED BY _____ ON _____

REVIEW OF THE PLANS BY THE DISTRICT IS LIMITED TO STREETS, WATER, WASTEWATER, AND DRAINAGE AND DOES NOT INDICATE A REVIEW OF THE ADEQUACY OF THE DESIGN FOR THE FACILITIES. IN APPROVING THESE PLANS, THE DISTRICT MUST RELY ON THE ADEQUACY OF THE WORK OF THE DESIGN ENGINEER.

DISTRICT ENGINEER

LEGAL DESCRIPTION:

STETSON RIDGE, UNIT 2

BEING 10.72 ACRES OF LAND OUT OF THE J.M. THOMPSON SURVEY 105, ABSTRACT 312, SITUATED IN GUADALUPE COUNTY, TEXAS, AND BEING ALL OF A CALLED 46.676 ACRE TRACT OF LAND RECORDED VOLUME 599, PAGE 222 OF THE OFFICIAL PUBLIC RECORD OF GUADALUPE COUNTY, TEXAS

4122 Pond Hill Road, Suite 101

San Antonio, Texas 78231

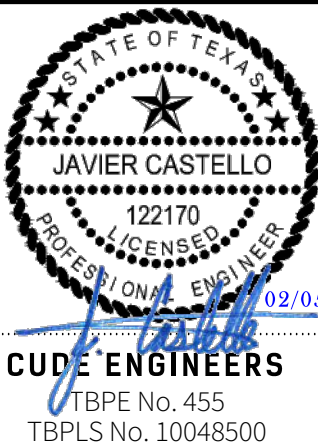
P:(210) 681.2951 F: (210) 523.7112

DRAWN BY
CG/JG/LJ/TCD

CHECKED BY
XV/JC

DATE
02/05/2026

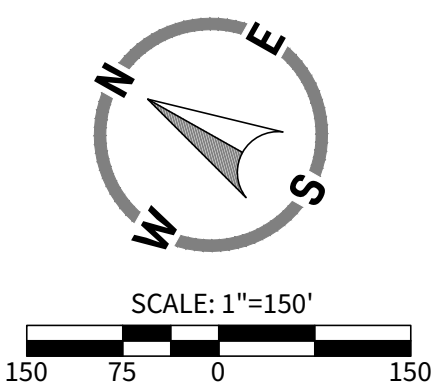
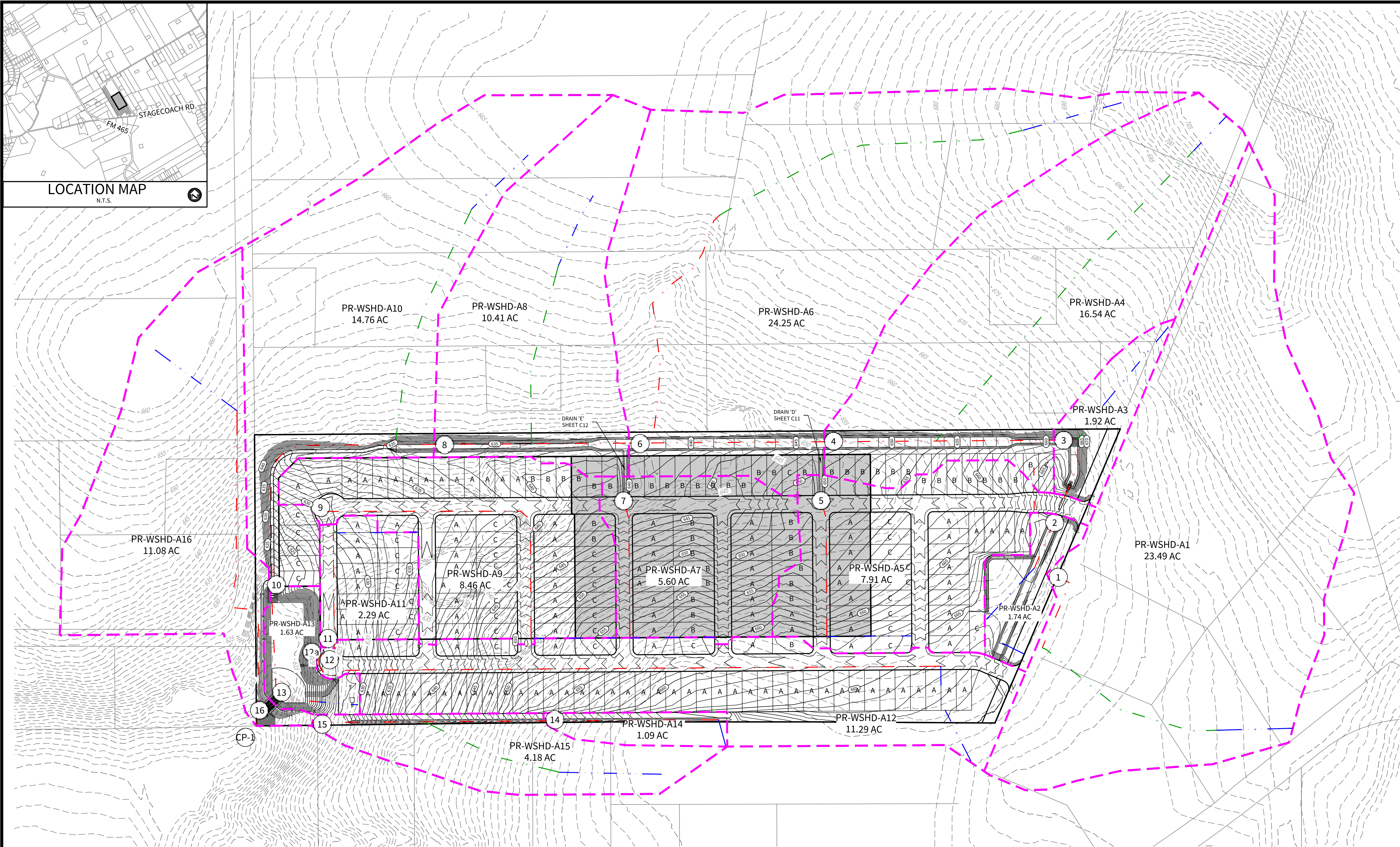
PROJECT NO.
04127.005



CUDE ENGINEERS
TBPE No. 455
TBPLS No. 10048500

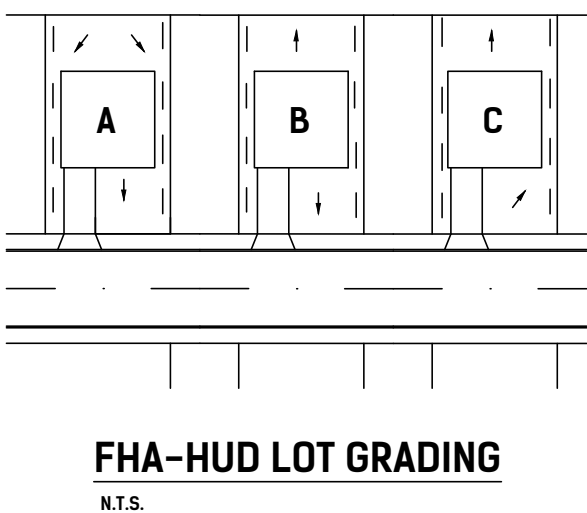
STETSON RIDGE
UNIT 2
CONSTRUCTION PLANS

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LEGEND

- UNIT BOUNDARY
- DRAINAGE AREA BOUNDARY
- SHEET FLOW Tc PATH
- SHALLOW CONC. Tc PATH
- CHANNEL CONC. Tc PATH
- ACCUMULATION POINT

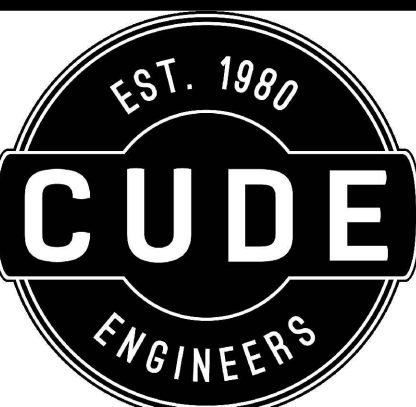


Project Name: Stetson Ridge Subdivision										Precipitation Area Atlas 14 =										PA2					
Calculation Summary for Time of Concentrations & Ultimate Flow																									
HYDROLOGY																									
Drainage Shed/ Computation Point	Shed Area (Ac.)	AREA OF ACCUMULATION (Ac.)	C	Sheet Flow Tc Computations				Shallow Conc. Tc Computations				Concentrated Tc Computations				Overall		INTENSITY				Q FLOW			
				Length - 300'	Manning's (n)	Slope (%)	Time of Concentration	Length	Paved (Y or N)	Slope (%)	Time of Concentration	Length	Velocity (fps)	Time of Concentration	Time of Concentration (min)	I5	I25	I100	Q5	Q25	Q100	Drainage Shed			
A1/1	23.49	= A1	0.65	224.00	0.13	0.95%	19.97	586.00	N	1.29%	5.33	278.00	6	0.77	26.07	4.00	5.54	6.90	61.07	84.59	105.35	A1/1			
A2/-	1.74	= A2	0.65	140.00	0.13	3.49%	8.15		N	0.50%	0.00	409.00	6	1.14	9.28	6.54	9.13	11.56	7.40	10.33	13.07	A2/-			
-/2	25.23	= A1+A2	0.65	224.00	0.13	0.95%	19.97	586.00	N	1.29%	5.33	492.00	6	1.37	26.66	3.95	5.48	6.82	64.78	89.87	111.84	-/2			
A3/-	1.92	= A3	0.65	300.00	0.13	3.56%	14.87	126.00	N	2.99%	0.75	70.00	6	0.19	15.82	5.17	7.19	9.00	6.45	8.97	11.23	A3/-			
-/3	27.15	= 2+A3	0.65	224.00	0.13	0.95%	19.97	586.00	N	1.29%	5.33	794.00	6	2.21	27.50	3.89	5.39	6.72	68.65	95.12	118.59	-/3			
A4/-	16.54	= A4	0.65	140.00	0.13	1.71%	10.84	1143.00	N	4.03%	5.88	328.00	6	0.91	17.63	4.88	6.78	8.48	52.46	72.89	91.17	A4/-			
-/4	43.69	= 3+A4	0.65	224.00	0.13	0.95%	19.97	586.00	N	1.31%	5.29	1469.00	6	4.08	29.34	3.76	5.22	6.50	106.78	148.24	184.59	-/4			
A5/5	7.91	= A5	0.65	200.00	0.15	1.01%	19.95	10.00	N	2.00%	0.07	407.00	6	1.13	21.16	4.44	6.17	7.69	22.83	31.72	39.54	A5/5			
A6/-	24.25	= A6	0.65	300.00	0.13	3.65%	14.72	943.00	N	2.26%	6.48	811.00	6	2.25	23.46	4.22	5.85	7.29	66.52	92.21	114.91	A6/-			
-/6	75.85	= 4+A5+A6	0.65	224.00	0.13	0.95%	19.97	586.00	N	1.31%	5.29	2044.00	6	9.68	30.93	3.66	5.08	6.32	180.45	250.46	311.59	-/6			
A7/7	5.60	= A7	0.65	240.00	0.15	3.10%	14.74	10.00	N	2.00%	0.07	407.00	6	1.13	15.95	5.15	7.16	8.95	18.75	26.06	32.58	A7/7			
A8/-	10.41	= A8	0.65	230.00	0.13	2.14%	14.74	535.00	N	3.90%	2.80	287.00	6	0.80	18.33	4.78	6.64	8.30	32.34	44.93	56.16	A8/-			
-/8	91.86	= 6+A7+A8	0.65	224.00	0.13	0.95%	19.97	586.00	N	1.31%	5.29	2617.00	6	7.27	32.53	3.57	4.95	6.16	213.16	295.56	367.81	-/8			
A9/9	8.46	= A9	0.65	240.00	0.15	2.42%	16.28	10.00	N	2.00%	0.07	984.00	6	2.73	19.08	4.68	6.50	8.12	25.74	35.74	44.65	A9/9			
A10/-	14.76	= A10	0.65	230.00	0.13	2.14%	14.74	736.00	N	2.97%	4.41	782.00	6	2.17	21.32	4.43	6.14	7.66	42.50	58.91	73.49	A10/-			
-/10	115.08	= 8+A9+A10	0.65	224.00	0.13	0.95%	19.97	586.00	N	1.31%	5.29	3469.00	6	9.64	34.89	3.44	4.77	5.94	257.32	356.81	444.32	-/10			
A11/11	2.29	= A11	0.65	240.00	0.15	2.23%	16.82	10.00	N	2.00%	0.07	340.00	6	0.94	17.84	4.85	6.74	8.42	12.22	10.03	12.53	A11/11			
A12/12	11.29	= A12	0.65	300.00	0.13	2.55%	16.99		N	2.00%	0.00	1884.00	6	5.23	22.23	4.33	6.01	7.49	31.78	44.10	54.97	A12/12			
-/12A	13.58	= A11+A12	0.65	300.00	0.13	2.55%	16.99		N	2.00%	0.00	1884.00	6	5.23	22.23	4.33	6.01	7.49	38.22	53.05	66.11	-/12A			
A13/-	1.63	= A13	0.65	116.00	0.13	7.62%	5.13		N	0.50%	0.00	124.00	6	0.34	5.47	7.70	10.79	13.61	8.16	11.43	14.42	A13/-			
-/13	130.29	= 10+A12+A13	0.65	224.00	0.13	0.95%	19.97	586.00	N	1.31%	5.29	3670.00	6	10.19	35.45	3.41	4.73	5.89	288.79	400.58	498.82	-/13			
A14/14	1.09	= A14	0.65	78.25	0.13	0.50%	11.13	0.00	N	2.00%	0.00	315.00	6	1.43	12.56	5.80	8.09	10.19	4.11	5.73	7.22	A14/14			
A15/-	4.18	= A15	0.65	300.00	0.13	2.02%	18.65	426.00	N	4.91%	1.99	330.00	6	0.92	21.56	4.40	6.11	7.61	11.95	16.60	20.68	A15/-			
-/15	5.27	= A14+A15	0.65	300.00	0.13	2.02%	18.65	426.00	N	4.91%	1.99	330.00	6	0.92	21.56	4.40	6.11	7.61	15.07	20.93	26.07	-/15			
A16/16	11.08	= A16	0.65	250.00	0.13	2.50%	14.80		N	2.00%	0.00	1009.00	6	2.80	17.61	4.89	6.79	8.48	35.22	48.90	61.07	A16/16			
CP-1																						CP-1			
*Reference Stetson Ridge SWMP for SCS hydrology calculations																									

*Reference Stetson Ridge SWMP for SCS hydrology calculations

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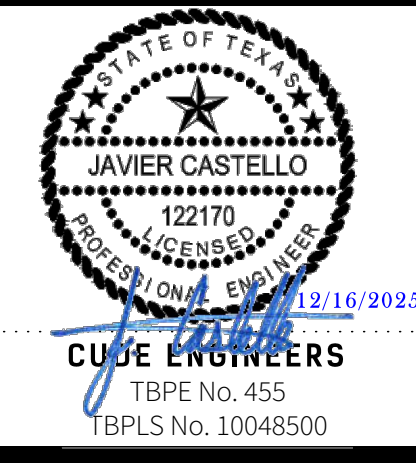
4122 Pond Hill Road, Suite 101
San Antonio, Texas 78231
P: (210) 681.2951 F: (210) 523.7112

STETSON RIDGE
UNIT 2

ULTIMATE MASTER DRAINAGE PLAN

DATE
12/16/2025
PROJECT NO.
04127.005
DRAWN BY
CG/JG/LJ/TC
CHECKED BY
XV/JC

DATE	REVISIONS								
	1	2	3	4	5	6	7	8	9



CUDE ENGINEERS
TBPE No. 455
TBPLS No. 10048500

C1

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KEYNOTES:

- 1

CONTRACTOR TO INSTALL 5' X 5' SIDEWALK PASSING SPACE WITH HOMEBUILDING
- 2

CONTRACTOR TO INSTALL 5' X 5' SIDEWALK PASSING SPACE WITH INFRASTRUCTURE

NOTES:

1. PRIOR TO THE COMMENCEMENT OF ANY WORK, THE COUNTY SHALL ATTEND A PRECONSTRUCTION MEETING INCLUDING (BUT NOT LIMITED TO) THE CITY, ENGINEER, CONTRACTOR, DEVELOPER'S INSPECTION REPRESENTATIVE, AND DEVELOPER'S CONSTRUCTION MATERIAL TESTING REPRESENTATIVE.
2. DURING CONSTRUCTION, NOTIFY THE COUNTY AT CONSTRUCTION@GUADALUPETX.GOV AT LEAST 48 HOURS IN ADVANCE OF ANY WORK TO BE PERFORMED AFFECTING SUBGRADE, BASE, OR PAVEMENT INCLUDING BACKFILL OF ANY PROPOSED UTILITIES UNDERNEATH THE PAVEMENT AND FILL AREAS UPON WHICH PAVEMENT IS PROPOSED TO BE PLACED. SUCH NOTIFICATION IS ALSO REQUIRED BEFORE IMPLEMENTING ANY APPROVED TRAFFIC CONTROL PLANS ON EXISTING COUNTY-MAINTAINED ROADS. FULL CLOSURE OF COUNTY ROADS REQUIRES AT LEAST ONE MONTH ADVANCE NOTICE AND IS SUBJECT TO THE DISCRETION OF THE COUNTY ENGINEER AND POSSIBLE APPROVAL BY GUADALUPE COUNTY COMMISSIONERS COURT PER TRANSPORTATION CODE, CHAPTER 251.
3. DURING CONSTRUCTION, PROVIDE ALL INSPECTION AND TESTING REPORTS TO THE COUNTY AT CONSTRUCTION@GUADALUPETX.GOV AS SOON AS AVAILABLE FOR IDENTIFICATION AND CORRECTION OF ANY EMERGING DEFICIENCIES.
4. PROVIDE AS-BUILT DRAWINGS WITHIN 10 BUSINESS DAYS OF THE COMPLETION OF CONSTRUCTION.
5. CONTRACTOR TO ENSURE STRICT ADHERENCE TO THE PAVEMENT GRADE TO ENSURE CORRECT FLOW. PONDING OF WATER ON THE STREET SURFACE WILL NOT BE ALLOWED.

LEGEND

- PAVEMENT GUTTER LINE
- DRIVEWAY TO BE BUILT WITH HOMEBUILDING
- STREET WASHOUT - SEE DETAIL SHEET C7
- SIDEWALK TO BE CONSTRUCTED WITH INFRASTRUCTURE
- ADA SIDEWALK CURB RAMP - SEE DETAIL SHEET C8
- 5'X5' SIDEWALK PASSING SPACE - SEE DETAIL SHEET C7

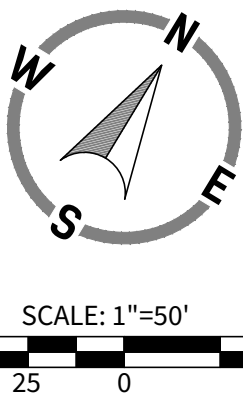
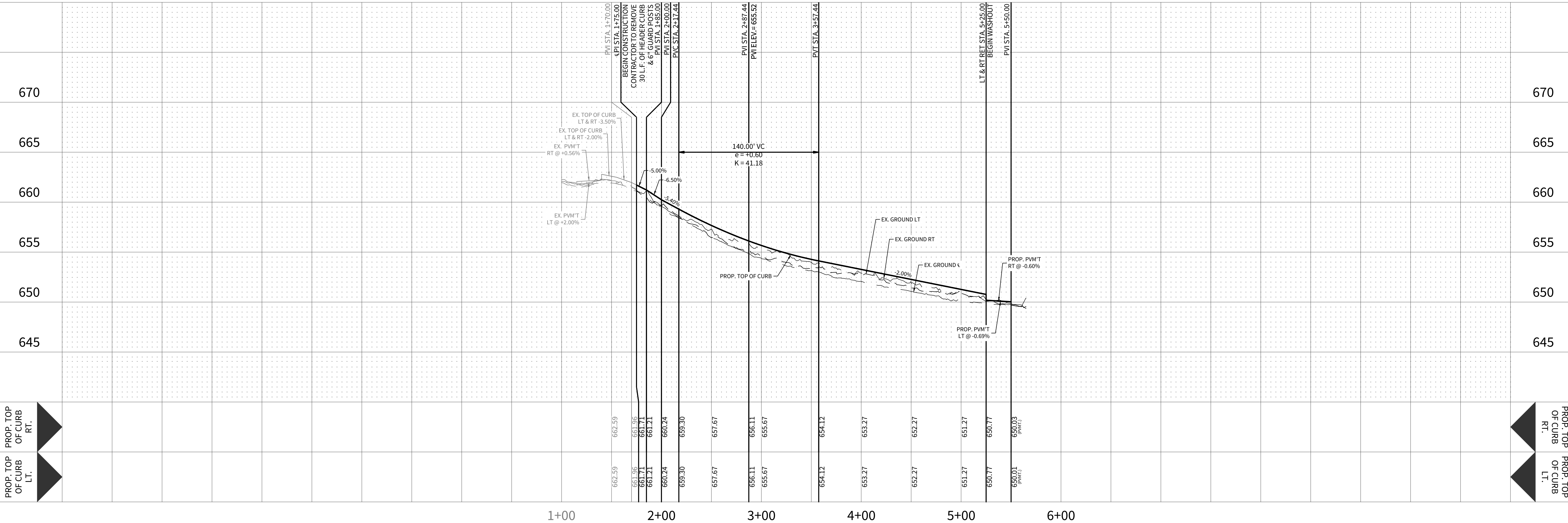
ONLY ADA RAMPS WITH A 900 SERIES OPEN SPACE WILL BE BUILT WITH INFRASTRUCTURE

HARNESS PASS

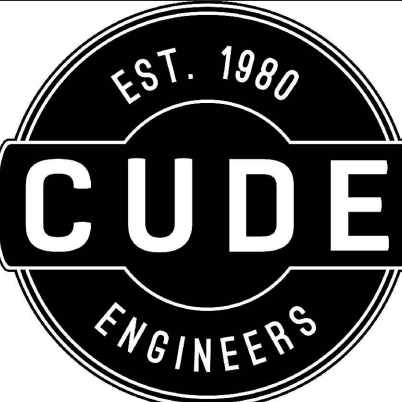
STA. 1+75.00 TO STA. 5+65.00

NOTE: GUADALUPE COUNTY DOES NOT MAINTAIN SIDEWALKS, CURB AND GUTTER, CURB RAMPS, PAVERS, LUMINAIRES, STORM WATER, OR DETENTION APPURTENANCES.

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



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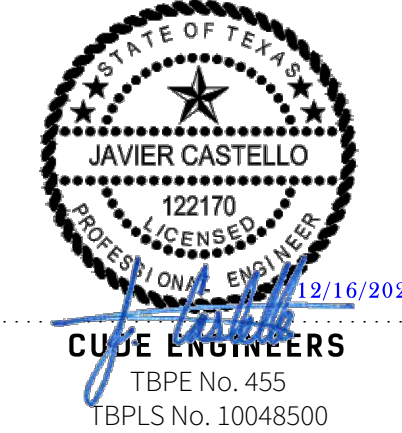
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STETSON RIDGE
UNIT 2

STREET PLAN & PROFILE - HARNES PASS

DATE	12/16/2025
PROJECT NO.	04127.005
DRAWN BY	CG/JG/LJ/TCD
CHECKED BY	XV/JC

REVISIONS	
DATE	
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C3

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KEYNOTES:

- 1
- CONTRACTOR TO INSTALL 5' X 5' SIDEWALK PASSING SPACE WITH HOMEBUILDING
- 2
- CONTRACTOR TO INSTALL 5' X 5' SIDEWALK PASSING SPACE WITH INFRASTRUCTURE

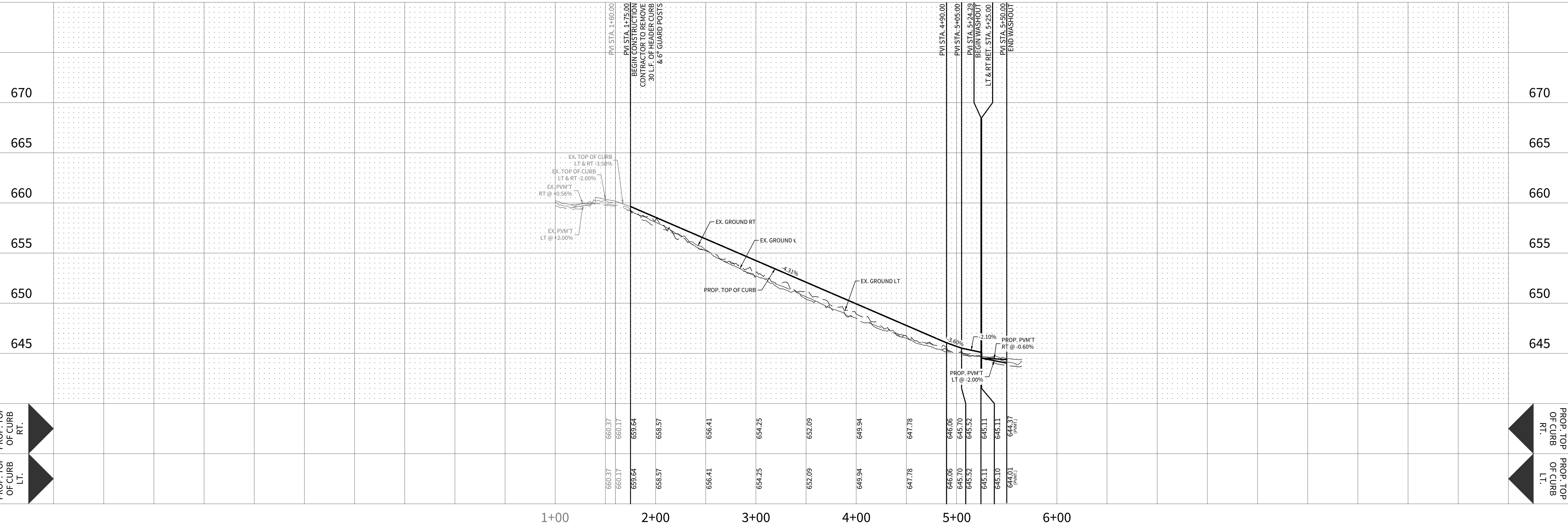
NOTES:

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4. PROVIDE AS-BUILT DRAWINGS WITHIN 10 BUSINESS DAYS OF THE COMPLETION OF CONSTRUCTION.
5. CONTRACTOR TO ENSURE STRICT ADHERENCE TO THE PAVEMENT GRADE TO ENSURE CORRECT FLOW. PONDING OF WATER ON THE STREET SURFACE WILL NOT BE ALLOWED.

LEGEND

- PAVEMENT GUTTER LINE
- DRIVEWAY TO BE BUILT WITH HOMEBUILDING
- STREET WASHOUT - SEE DETAIL SHEET C7
- SIDEWALK TO BE CONSTRUCTED WITH INFRASTRUCTURE
- ADA SIDEWALK CURB RAMP - SEE DETAIL SHEET C8
- 5'X5' SIDEWALK PASSING SPACE - SEE DETAIL SHEET C7

ONLY ADA RAMPS WITH A 900 SERIES OPEN SPACE WILL BE BUILT WITH INFRASTRUCTURE

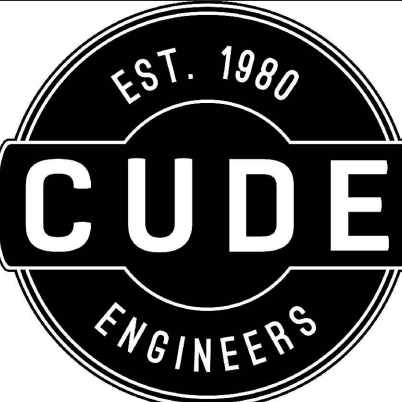
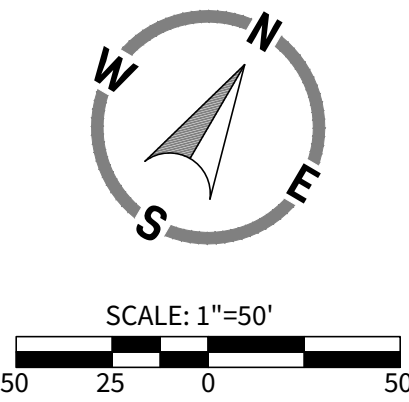


CINCH AVE

STA. 1+75.00 TO STA. 5+65.00

NOTE: GUADALUPE COUNTY DOES NOT MAINTAIN SIDEWALKS, CURB AND GUTTER, CURB RAMPS, PAVERS, LUMINAIRES, STORM WATER, OR DETENTION APPURTENANCES.

HORIZONTAL SCALE: 1" = 50'
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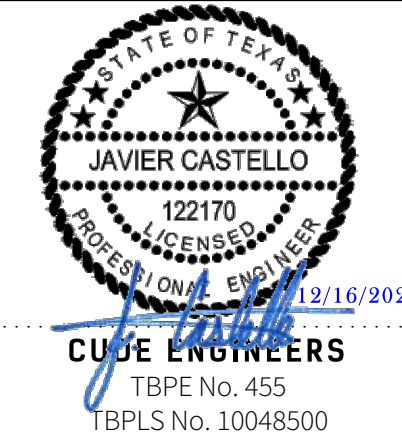
4122 Pond Hill Road, Suite 101
San Antonio, Texas 78231
P:(210) 681.2951 F:(210) 523.7112

STETSON RIDGE
UNIT 2

STREET PLAN & PROFILE - CINCH AVE

DATE	12/16/2025
PROJECT NO.	04127.005
DRAWN BY	CG/JG/LJ/TC
CHECKED BY	XV/JC

REVISIONS	
DATE	1 2 3 4 5 6 7 8 9



C4

KEYNOTES:

- 1

CONTRACTOR TO INSTALL 5' X 5' SIDEWALK PASSING SPACE WITH HOMEBUILDING
- 2

CONTRACTOR TO INSTALL 5' X 5' SIDEWALK PASSING SPACE WITH INFRASTRUCTURE

NOTES:

1.

PRIOR TO THE COMMENCEMENT OF ANY WORK, THE COUNTY SHALL ATTEND A PRECONSTRUCTION MEETING INCLUDING (BUT NOT LIMITED TO) THE CITY, ENGINEER, CONTRACTOR, DEVELOPER'S INSPECTION REPRESENTATIVE, AND DEVELOPER'S CONSTRUCTION MATERIAL TESTING REPRESENTATIVE.
2.

DURING CONSTRUCTION, NOTIFY THE COUNTY AT CONSTRUCTION@GUADALUPETX.GOV AT LEAST 48 HOURS IN ADVANCE OF ANY WORK TO BE PERFORMED AFFECTING SUBGRADE, BASE, OR PAVEMENT INCLUDING BACKFILL OF ANY PROPOSED UTILITIES UNDERNEATH THE PAVEMENT AND FILL AREAS UPON WHICH PAVEMENT IS PROPOSED TO BE PLACED. SUCH NOTIFICATION IS ALSO REQUIRED BEFORE IMPLEMENTING ANY APPROVED TRAFFIC CONTROL PLANS ON EXISTING COUNTY-MAINTAINED ROADS. FULL CLOSURE OF COUNTY ROADS REQUIRES AT LEAST ONE MONTH ADVANCE NOTICE AND IS SUBJECT TO THE DISCRETION OF THE COUNTY ENGINEER AND POSSIBLE APPROVAL BY GUADALUPE COUNTY COMMISSIONERS COURT PER TRANSPORTATION CODE, CHAPTER 251.
3.

DURING CONSTRUCTION, PROVIDE ALL INSPECTION AND TESTING REPORTS TO THE COUNTY AT CONSTRUCTION@GUADALUPETX.GOV AS SOON AS AVAILABLE FOR IDENTIFICATION AND CORRECTION OF ANY EMERGING DEFICIENCIES.
4.

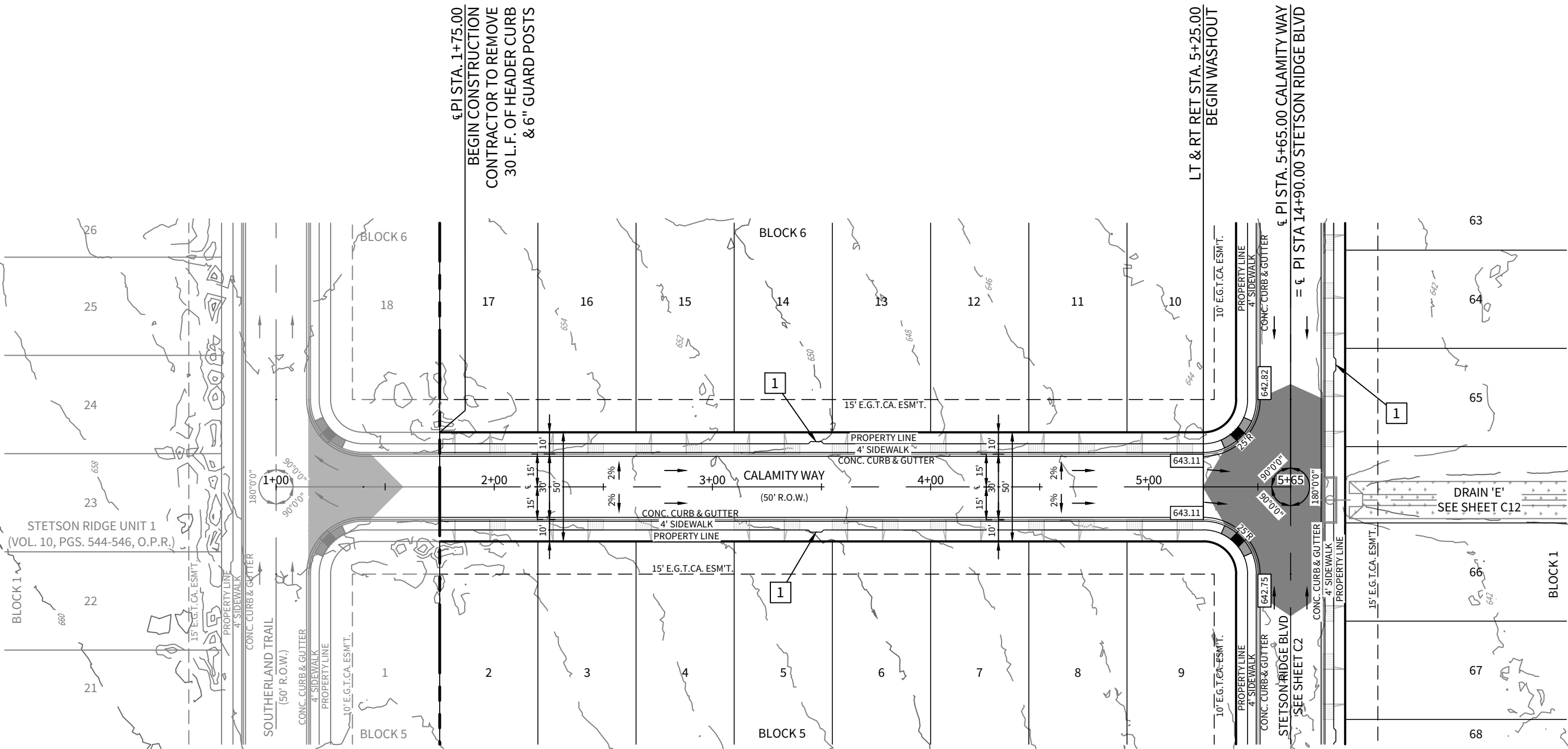
PROVIDE AS-BUILT DRAWINGS WITHIN 10 BUSINESS DAYS OF THE COMPLETION OF CONSTRUCTION.
5.

CONTRACTOR TO ENSURE STRICT ADHERENCE TO THE PAVEMENT GRADE TO ENSURE CORRECT FLOW. PONDING OF WATER ON THE STREET SURFACE WILL NOT BE ALLOWED.

LEGEND

- PAVEMENT GUTTER LINE
- DRIVEWAY TO BE BUILT WITH HOMEBUILDING
- STREET WASHOUT - SEE DETAIL SHEET C7
- SIDEWALK TO BE CONSTRUCTED WITH INFRASTRUCTURE
- ADA SIDEWALK CURB RAMP - SEE DETAIL SHEET C8
- 5'X5' SIDEWALK PASSING SPACE - SEE DETAIL SHEET C7

ONLY ADA RAMPS WITH A 900 SERIES OPEN SPACE WILL BE BUILT WITH INFRASTRUCTURE

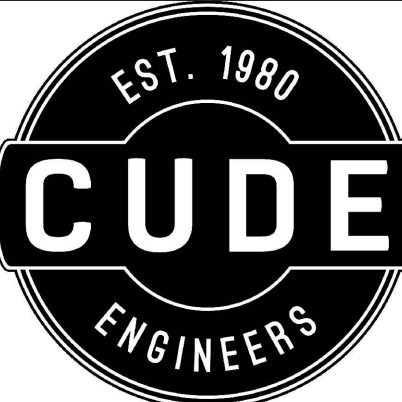
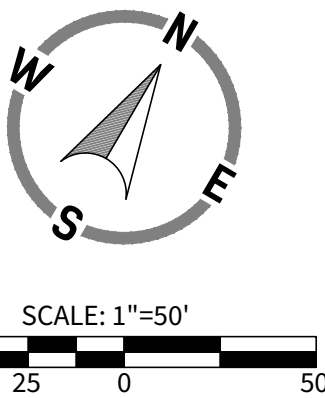
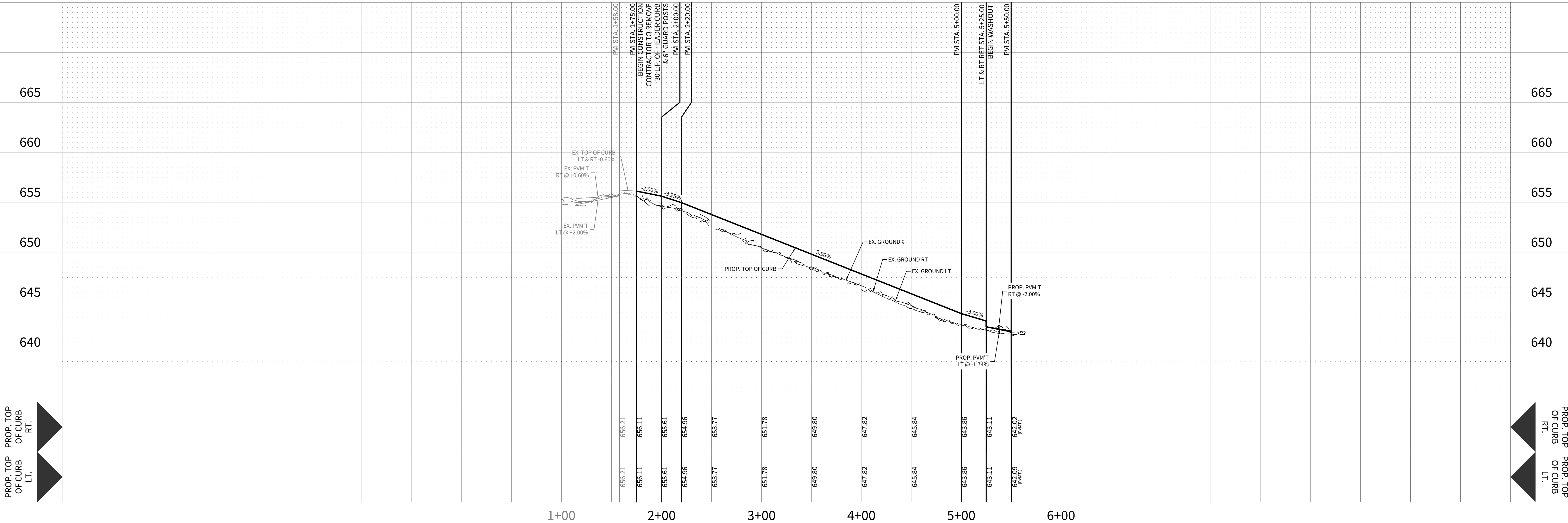


CALAMITY WAY

STA. 1+75.00 TO STA. 5+65.00

NOTE: GUADALUPE COUNTY DOES NOT MAINTAIN SIDEWALKS, CURB AND GUTTER, CURB RAMPS, PAVERS, LUMINAIRES, STORM WATER, OR DETENTION APPURTENANCES.

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



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STETSON RIDGE
UNIT 2

STREET PLAN & PROFILE - CALAMITY WAY

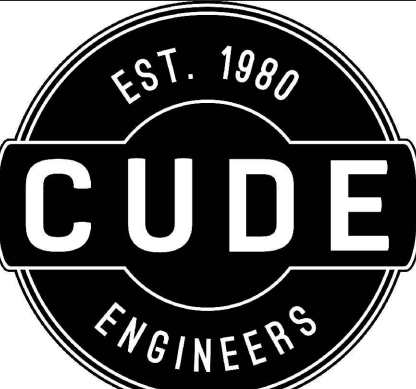
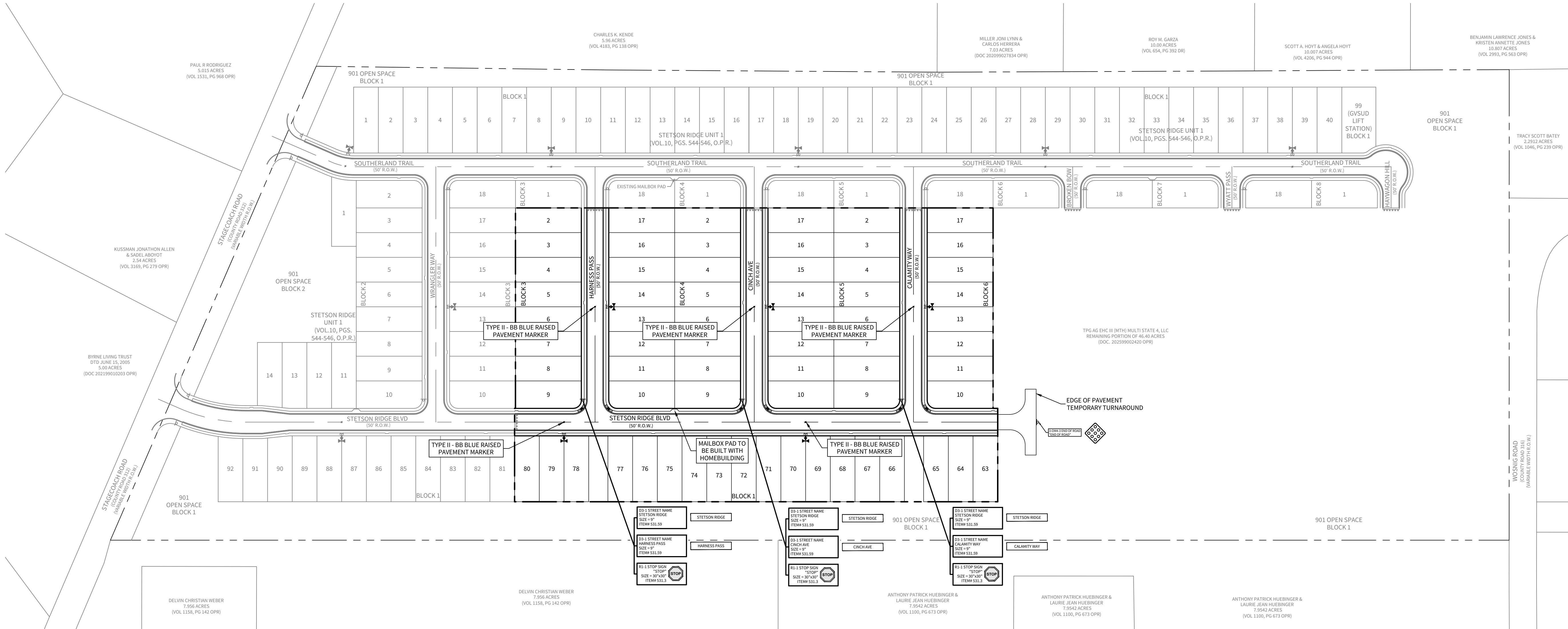
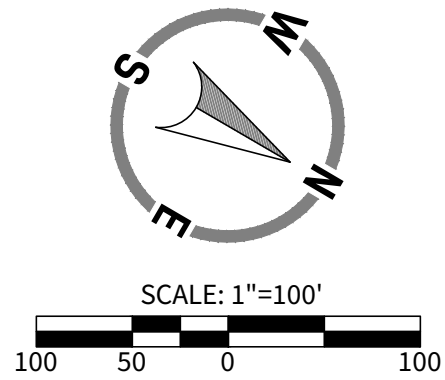
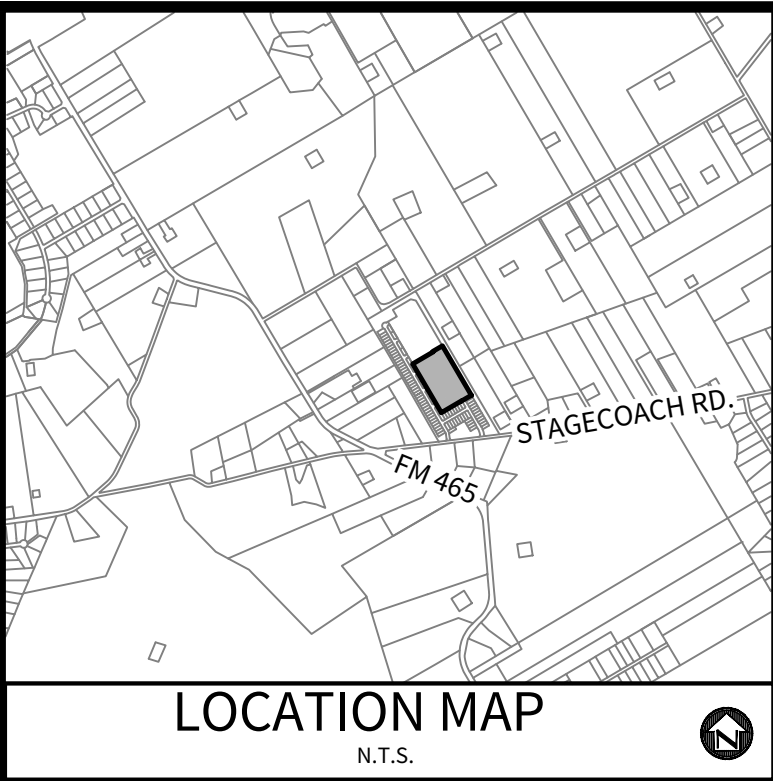
DATE	12/16/2025
PROJECT NO.	04127.005
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CHECKED BY	XV/JC

REVISIONS	
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C5

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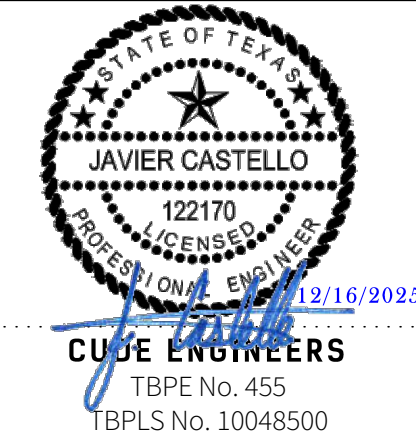


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STETSON RIDGE
UNIT 2
TRAFFIC SIGNAGE PLAN

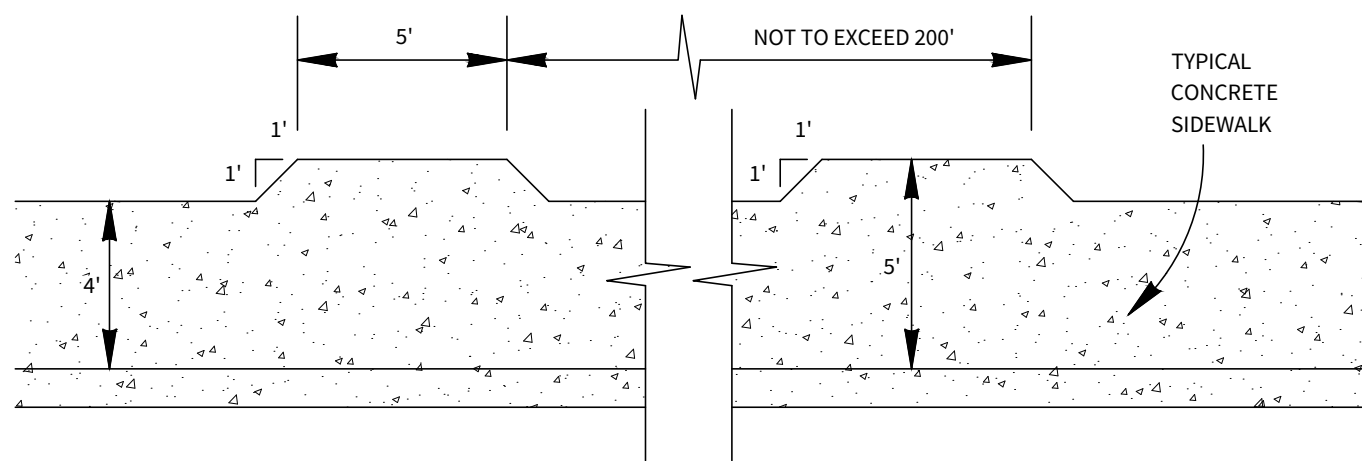
DATE
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PROJECT NO.
04127.005
DRAWN BY
CG/JG/LJ/TC/D
CHECKED BY
XV/JC

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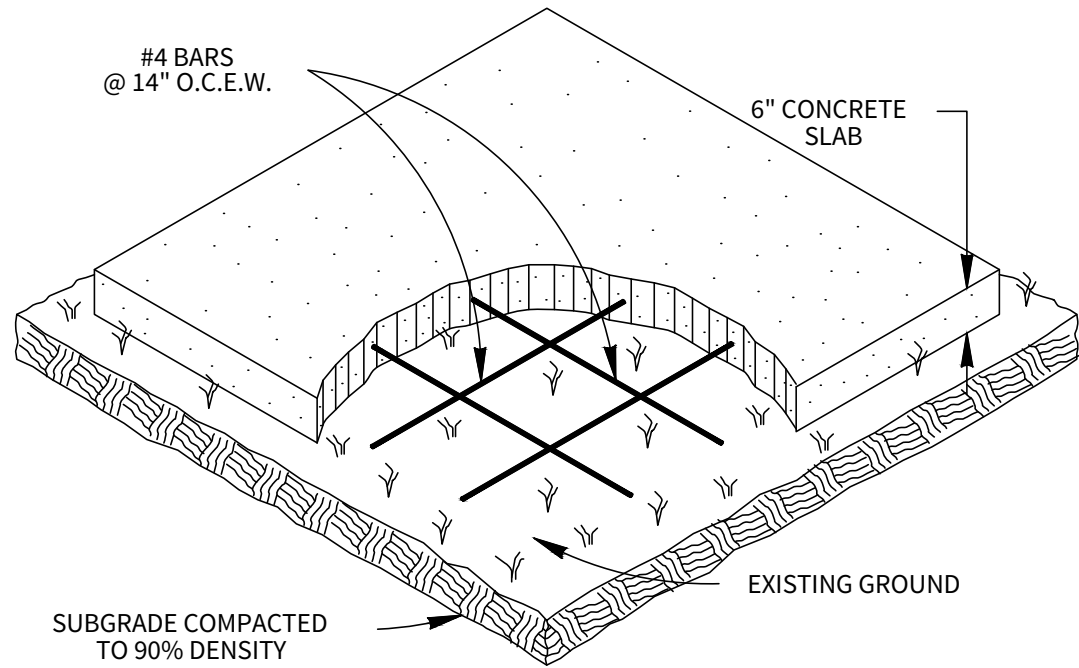
CUDE ENGINEERS
TBPE No. 455
TBPLS No. 10048500

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SIDEWALK PASSING SPACE

- FOR LOCAL TYPE "A" STREETS, SIDEWALKS SHALL HAVE A MINIMUM UNOBSTRUCTED WIDTH OF 4' AND IF SEPARATED FROM THE CURB, THE SIDEWALK SHALL BE LOCATED A MINIMUM OF 3' FROM THE BACK OF CURB.
- SIDEWALKS LESS THAN 5 FEET IN WIDTH SHALL BE PROVIDED WITH A PASSING SPACE AT A MAXIMUM SPACING OF 200 FEET.

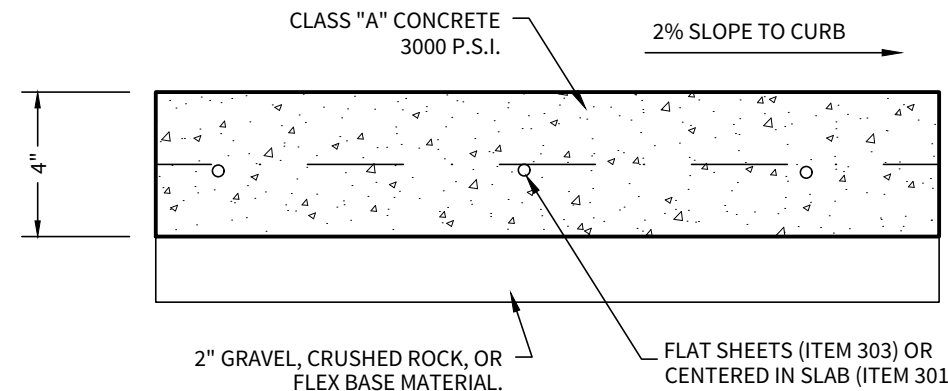
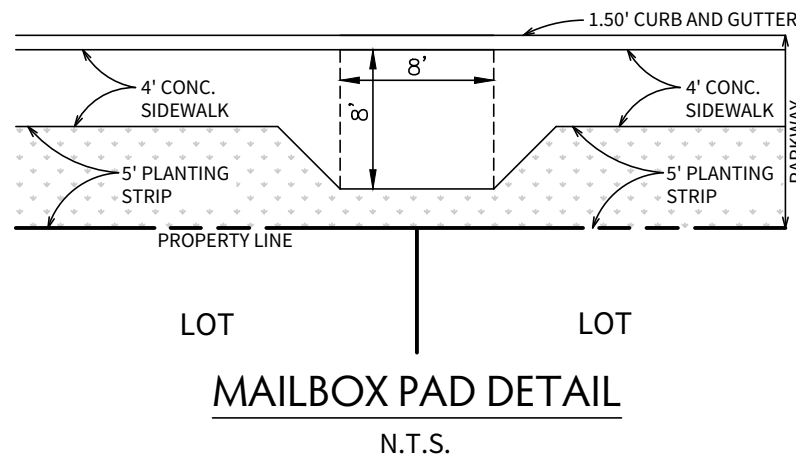


MAIL BOX PAD NOTE:

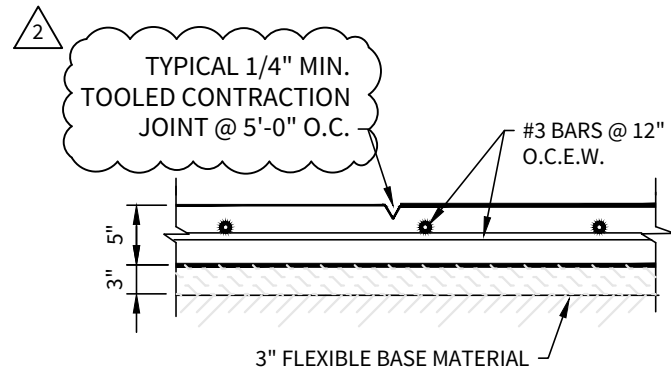
- THE CONTRACTOR WILL CONSTRUCT SLABS FOR "TEMPORARY MAIL BOX COLLECTION PAD" FOR THE UNITED STATES POSTAL SERVICE WITH LOCATIONS AND SIZES SPECIFIED BY THE CITY ENGINEER DURING CONSTRUCTION.
- THE CONSTRUCTION OF SLABS SHALL CONFORM TO ITEM 513 "REMOVING AND RELOCATING MAILBOXES".
- PAYMENT WILL BE MADE UNDER ITEM 513.2 "COMMUNITY MAILBOX SLAB - PER SQUARE YARD".
- UNIT PRICE WILL INCLUDE REMOVAL OF "TEMPORARY MAIL BOX COLLECTION PAD" SLABS AT THE END OF THE PROJECT. NO SEPARATE PAY ITEM.

COMMUNITY MAIL BOX SLAB

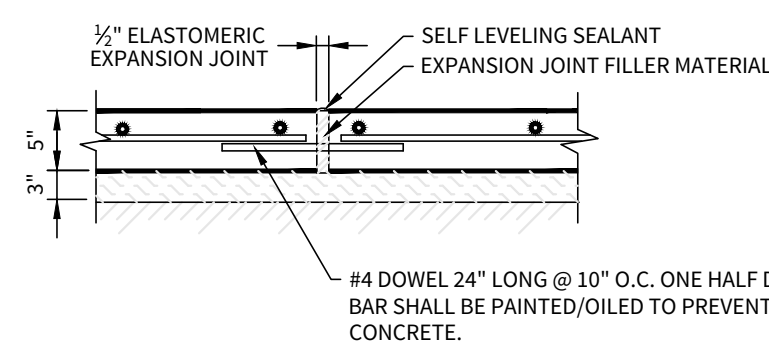
ITEM 513.2



CONCRETE SIDEWALK

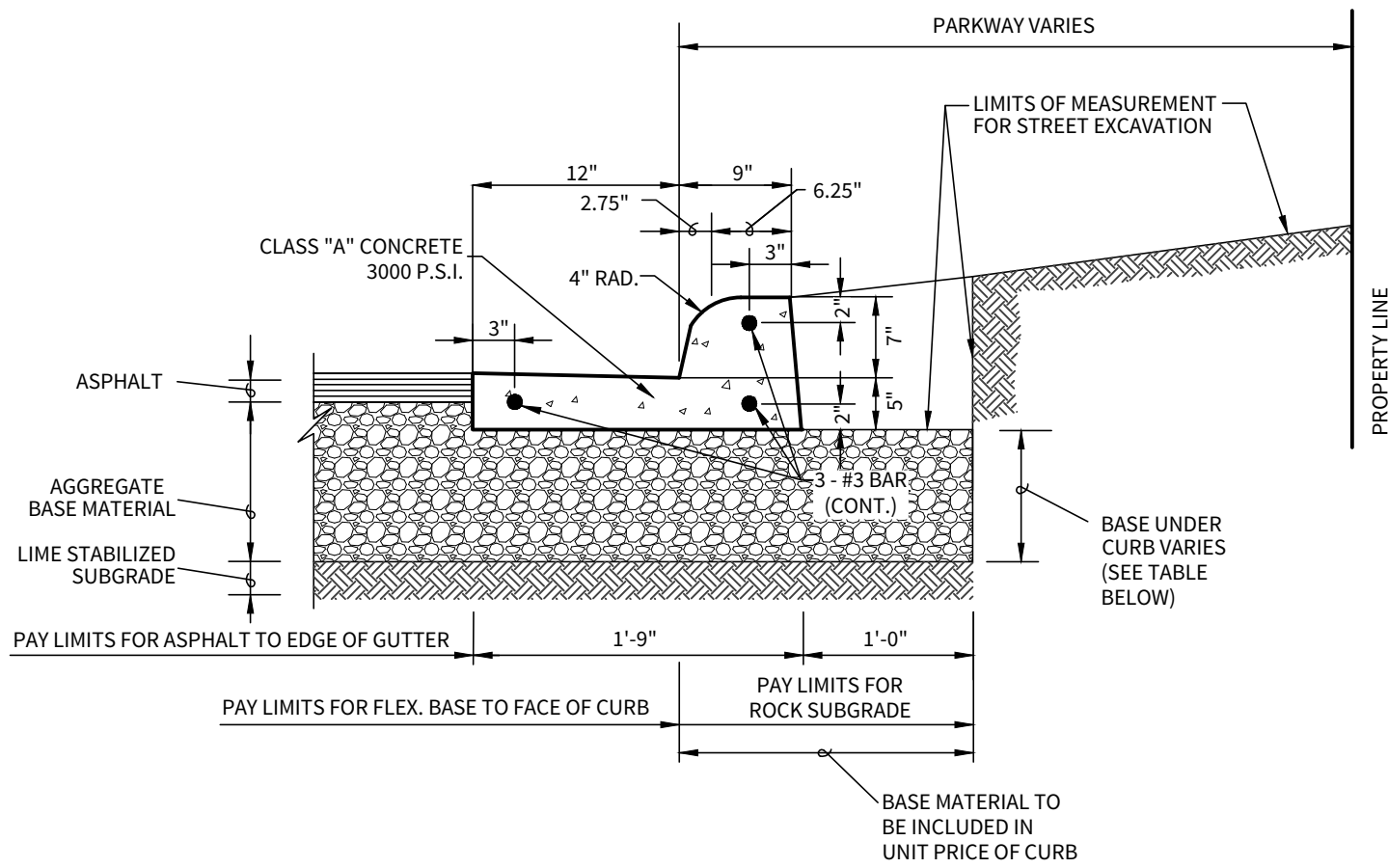


TYPICAL CONTRACTION JOINTS



TYPICAL EXPANSION JOINTS

- GENERAL NOTES FOR CONCRETE SIDEWALKS:
- ALL SIDEWALKS SHALL BE A MINIMUM 3000 PSI CONCRETE WITH NO. 3 BARS AT 12" INCHES ON CENTER.
 - PROVIDE SIDEWALK WITH A HORIZONTAL (CROSS) BRUSH FINISH ON ALL SURFACES.
 - GROOVE CONTRACTION JOINTS SHALL BE SPACED 5 FT. ON CENTERS, WITH 1/2" ELASTOMERIC EXPANSION JOINTS AT EVERY 30 FT.
 - PROVIDE A 1/2" ELASTOMERIC EXPANSION JOINT ALONG NEW BUILDING BETWEEN ALL NEW SIDEWALK.
 - ALL BASE MATERIAL UNDER SIDEWALKS TO BE MOISTURE CONDITIONED AND COMPACTED.

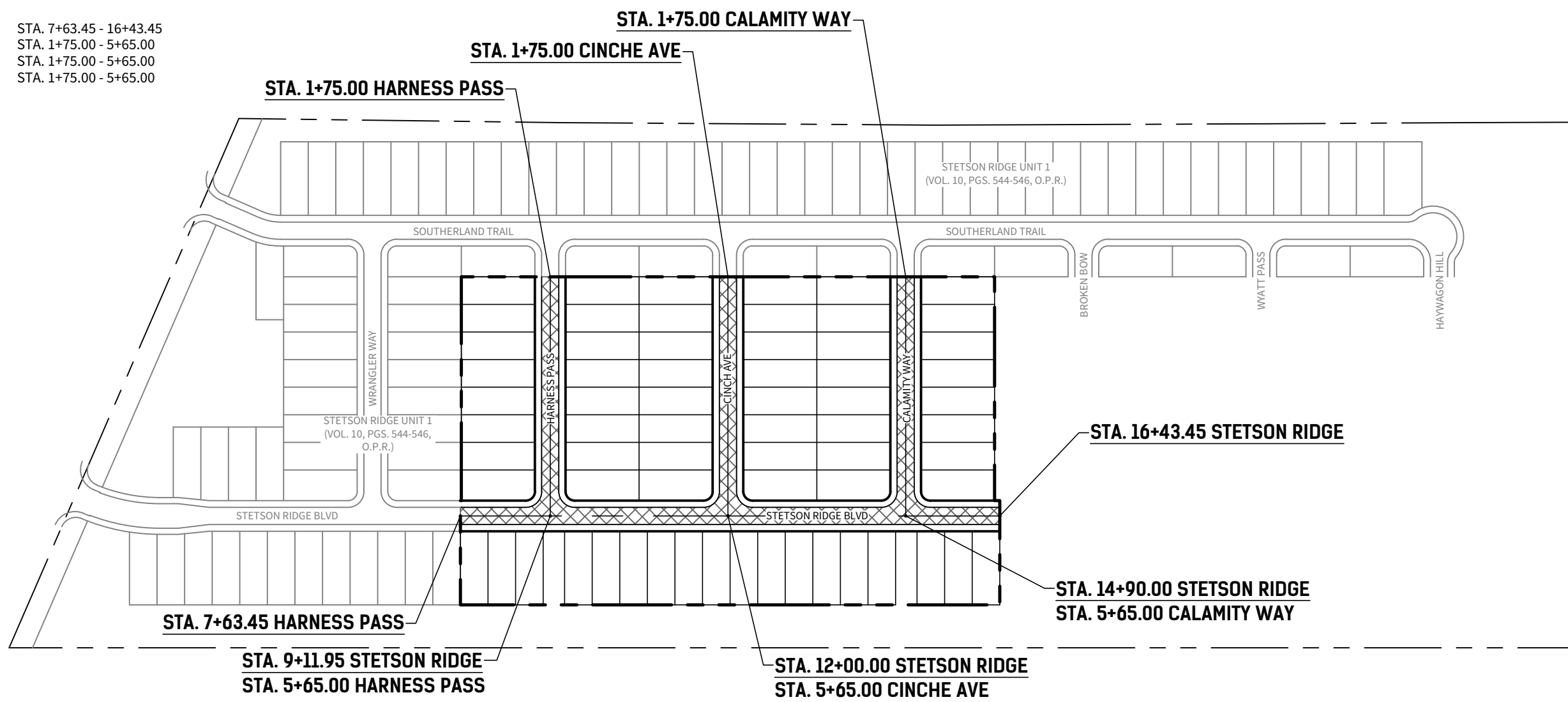


STREET CURB & GUTTER DETAIL

- NOTES:
- CONCRETE CURB AND GUTTER SHALL BE CLASS "A" CONCRETE (3,000 P.S.I.).

LOCAL 'A' STREET
STETSON RIDGE
HARNES PASS
CINCHE AVE
CALAMITY WAY

STA. 7+63.45 - 16+43.45
STA. 1+75.00 - 5+65.00
STA. 1+75.00 - 5+65.00
STA. 1+75.00 - 5+65.00



NOTES:

- PAVEMENT DESIGN THICKNESS BASED ON GEOTECHNICAL REPORT. SEE TABLE NO. 2 PAGE 24 OF THE GEOTECH REPORT FOR STRUCTURAL NUMBER CALCULATION. REFERENCE PROJECT GEOTECHNICAL REPORT AND PROJECT SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS AND ALTERNATE PAVEMENT SECTIONS. (SEE GEOTECH REPORT BY INTEC, PROJECT NO. S231172, DATED 08/08/23)
- ANY AREAS OF CLAY ENCOUNTERED DURING CONSTRUCTION SHALL BE REMOVED DOWN TO THE WEATHERED/FRIABLE MARLSTONE/LIMESTONE AND PROPERLY BACKFILLED WITH MARLSTONE/LIMESTONE MILLINGS HAVING A CBR VALUE DETERMINED BY THE GEOTECHNICAL ENGINEER.
- 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 THE SUBGRADE IS CUT/FILLED TO THE PROPER GRADE.
- CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING MATERIAL TESTING. TESTING TO BE PAID BY OWNER.
- 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. NO VERTICAL CUTS WITHIN GUADALUPE COUNTY R.O.W. UNLESS ROCK ONLY AND COMPETENT AS DETERMINED BY THE GEOTECHNICAL ENGINEER.
- IF ALTERNATE PAVEMENT SECTION CHOSEN, CITY OF MARION SHALL BE PROVIDED WITH REVISED CONSTRUCTION PLANS INDICATING SELECTED PAVEMENT DESIGN PRIOR TO CONSTRUCTION.
- PAVEMENT SECTIONS ARE SUBJECT TO CHANGE DUE TO RETESTING OF SOIL AFTER STREET EXCAVATION HAS BEEN DONE TO TOP OF CURB.
- CONTRACTOR SHALL CONTACT ENGINEER 48 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.
- GENERAL FILL MATERIALS SHOULD CONSIST OF ONSITE SOILS OR CLEAN IMPORTED FILL SOILS WITH EQUAL OR BETTER CBR CHARACTERISTICS TO THE ONSITE SOILS. GENERAL FILL MATERIAL SHOULD BE CLEAN AND FREE OF ANY VEGETATION ROOTS, ORGANIC MATERIALS, TRASH OR GARBAGE, CONSTRUCTION DEBRIS, OR OTHER DELETERIOUS MATERIALS AND SHOULD CONTAIN NO LARGER THAN THREE (3) INCHES IN MAXIMUM DIMENSION.

PAVEMENT DESIGN SCHEMATIC

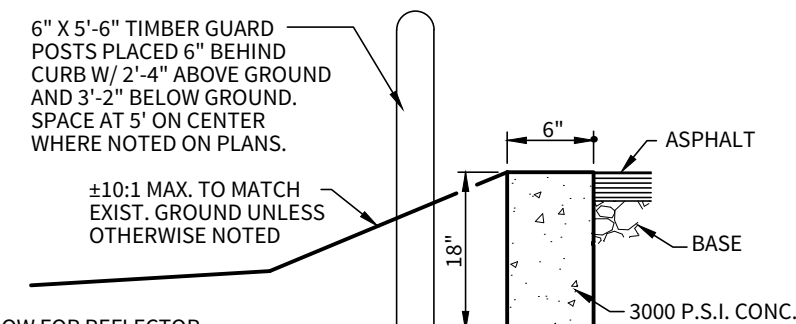
- NOTE:
- REFERENCE GEOTECHNICAL REPORT BY INTEC (S231172, DATED 08/08/23) FOR BORING INFORMATION AND CBR LOCATIONS

LEGEND:	
	TYPICAL "RESIDENTIAL LOCAL 'A' STREET"

STREET TYPE	HMAC TYPE "D"	AGGREGATE BASE	LIME STABILIZED SUBGRADE	BASE UNDER CURB	STRUCTURAL NUMBER
RESIDENTIAL LOCAL 'A' STREET	2.0"	11.0"	6.0" (33 LB/SY)	8.0"	2.90

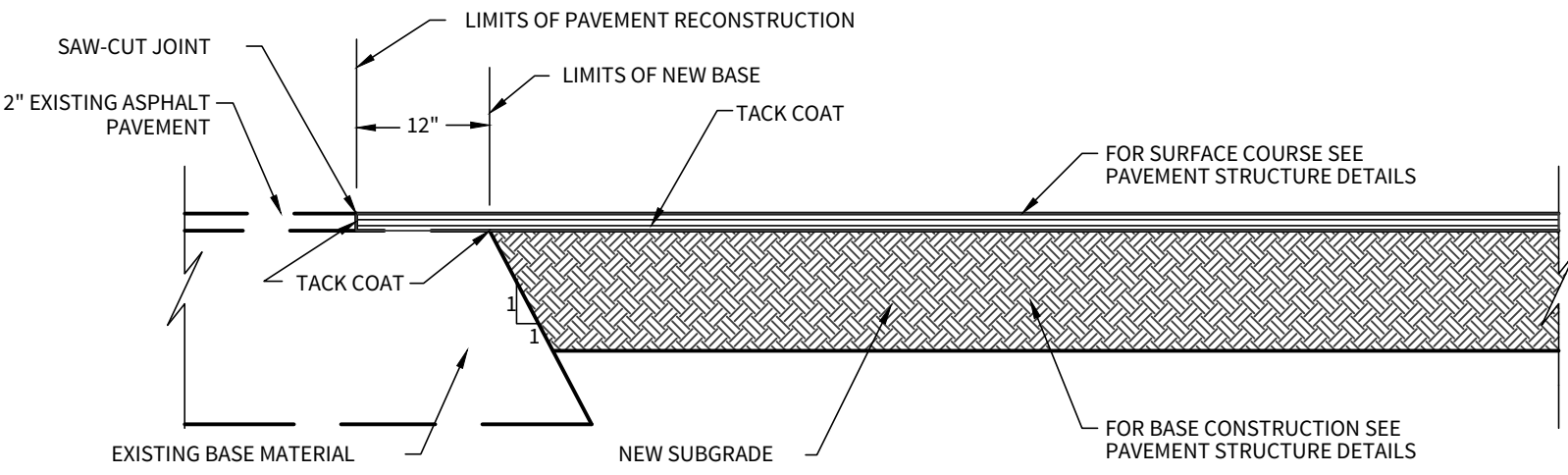
STREET PAVEMENT DESIGN OPTIONS

- SUBGRADE - GEOTECH ENGINEER WILL BE PRESENT TO DETERMINE IF NATIVE MARL/ROCK SUBGRADE IS SUFFICIENT FOR PAVEMENT SECTION LISTED ABOVE.
- CONTRACTOR SHALL APPLY CLAY SUBGRADE PAVEMENT SECTION (SEE GEOTECH REPORT BY INTEC PROJECT NO. S231172, DATED 08/08/23) IF GEOTECH ENGINEER DETERMINES NATIVE MARL/ROCK IS NOT SUFFICIENT. IF LIME TREATMENT IS REPLACED BY NATIVE MARL/ROCK, CITY OF MARION PUBLIC WORKS WILL BE INFORMED OF ALL CHANGES. REVISIONS WILL BE SUBMITTED INDICATING WHERE LIME TREATMENT WAS USED, ALONG WITH STATIONING. CONTRACTOR TO REVIEW GEOTECH RECOMMENDATIONS PRIOR TO FINAL SUBGRADE PREPARATION.
- FILL MATERIAL - CONTRACTOR SHALL OVER-EXCAVATE STREET SUBGRADE AREAS CONTAINING SOILS HAVING A PLASTICITY INDEX GREATER THAN 20 AND REPLACE A MINIMUM OF 6" OF SUBGRADE WITH ON-SITE LIMESTONE MILLINGS THAT HAVE A PLASTICITY INDEX OF LESS THAN 20 OR USE FILL MATERIAL FROM AREAS OF SIMILAR SUBGRADE MATERIAL FOR ROADWAY EMBANKMENTS. GEOTECHNICAL ENGINEER WILL BE PRESENT AT THE TIME OF SUBGRADE PREPARATION TO DETERMINE THE EXTENTS OF APPLICABLE PAVEMENT SECTIONS BASED ON FINAL SUBGRADE.
- RAS OR RAP WILL NOT BE ALLOWED IN ASPHALTIC CONCRETE FOR PAVEMENT FOR STREETS.



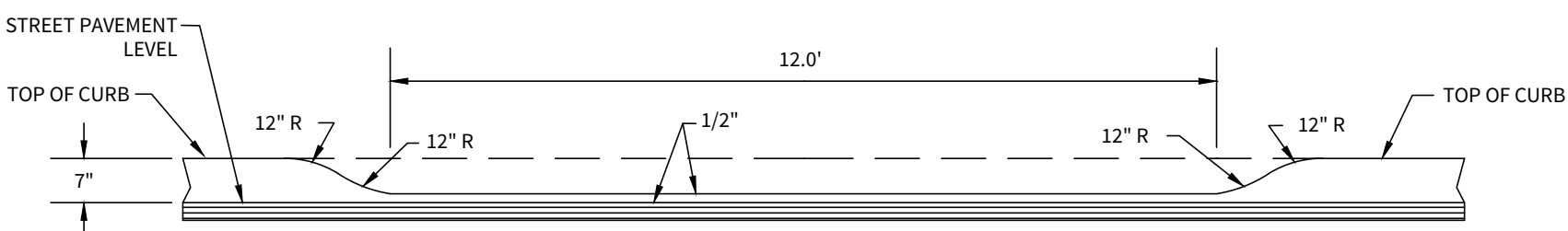
- ALLOW FOR REFLECTOR BUTTONS ON GUARD POSTS. USE ONE 3" BUTTON PER POST.
- POSTS WILL RECEIVE TWO COATS OF ALUMINUM PAINT.

HEADER CURB & BOLLARD DETAIL

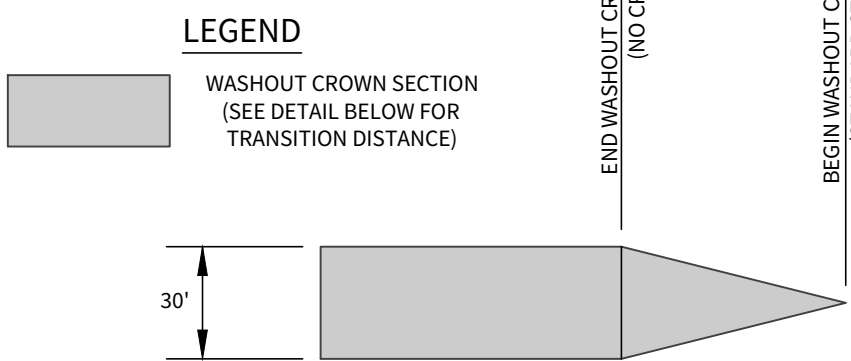


PAVEMENT JUNCTION DETAILS

N.T.S.

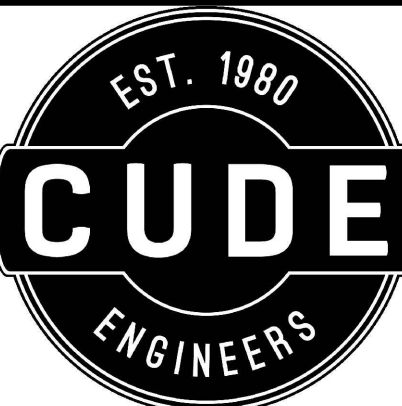


TYPICAL DRIVEWAY CUT SECTION



WASHOUT CROWN TRANSITION DETAIL

DETAILS ON THIS DRAWING ARE NOT TO SCALE



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STETSON RIDGE UNIT 2 CITY OF MARION STANDARD STREET DETAILS

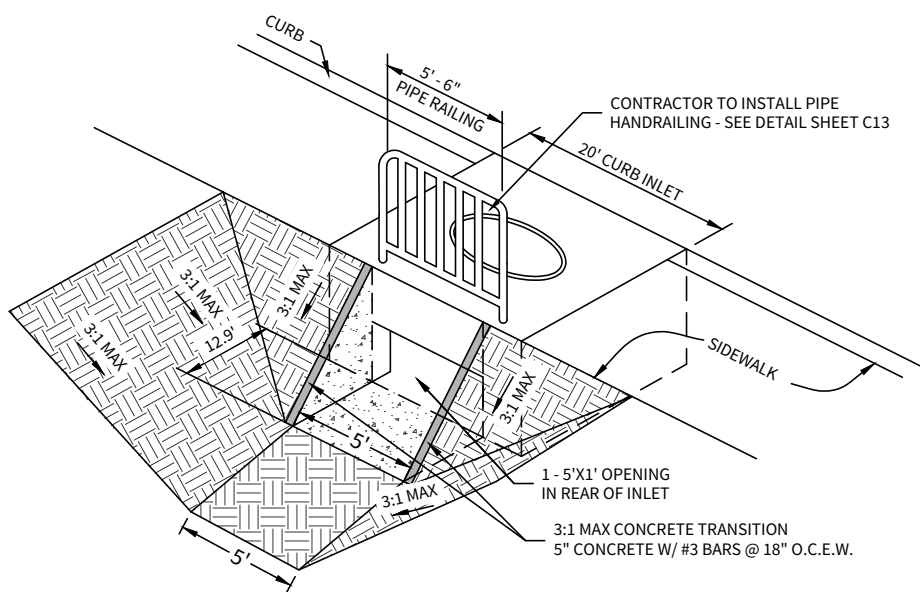
DATE
12/16/2025
PROJECT NO.
04127.005
DRAWN BY
CG/JG/LJ/TCD
CHECKED BY
XV/JC

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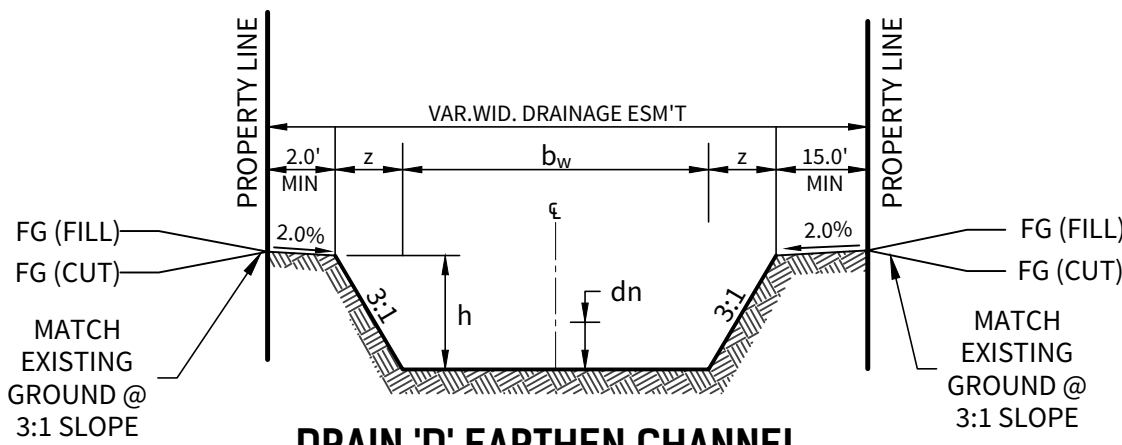
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DRAIN 'D'
CURB INLET & EARTHEN DRAIN DETAIL (N.T.S.)

NOTE: CONTRACTOR TO DOWEL CONC. TRANSITION TO REAR OF INLET WITH #4 DOWELS @ 12" O.C.



DRAIN 'D' EARTHEN CHANNEL

(N.T.S.)
'A-A' STA. 1+20.09 TO STA. 2+55.63

CURB INLET OPENING

$Q_{25} = 31.72 \text{ c.f.s.} / 2.06 = 15.40' \text{ REQ.}$

USED 20' INLET

$A = 5.00 \text{ s.f. (1 - 5' x 1')}$

$V = 6.34 \text{ f.p.s.}$

$H_v = 0.62'$

$1.5H_v = 0.94'$

$H_w = z + y + 1.5H_v$

$H_w = 646.93' + 1.0' + 0.94'$

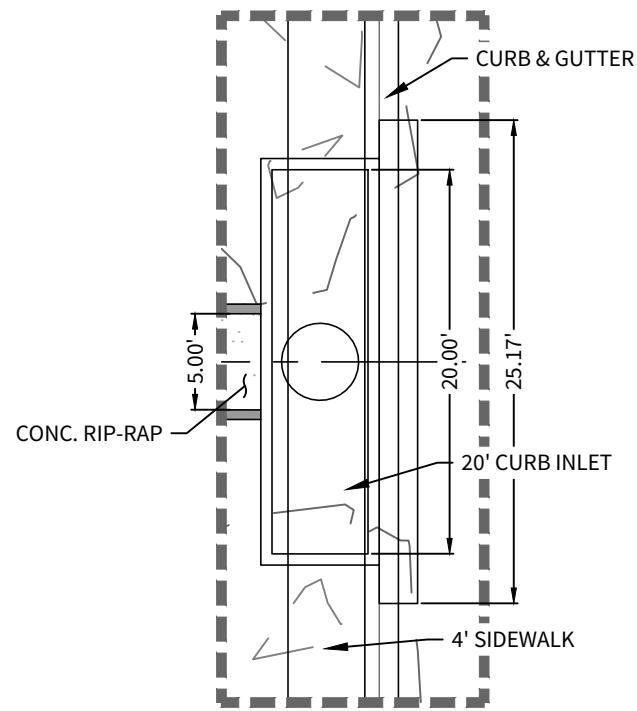
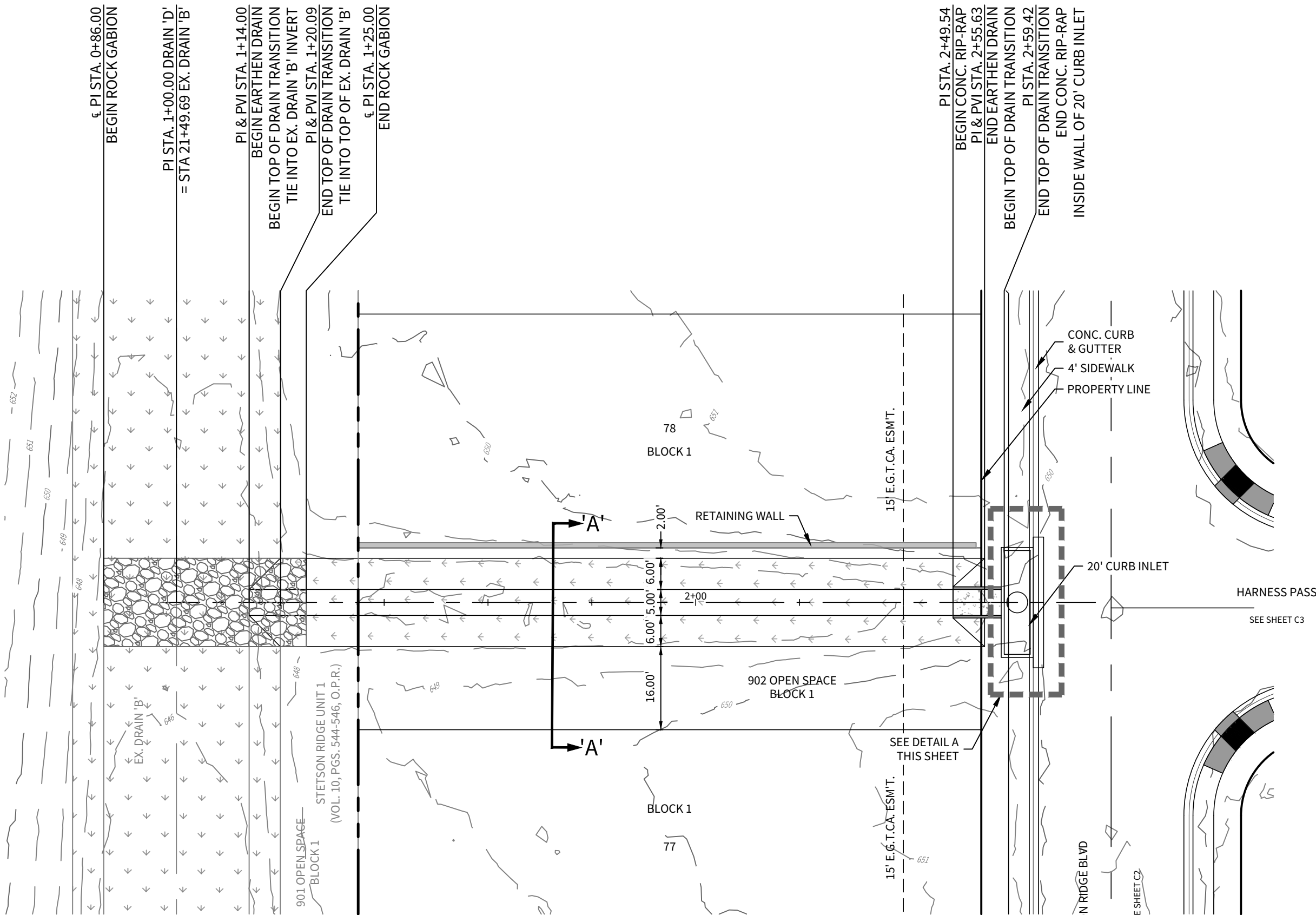
$H_w = 648.87$

GUTTER = 649.19

	'A-A'
Q_{25} (cfs)	31.72
b_w (ft)	5.00'
z (ft)	6.00'
n	0.035
h (ft)	2.00'
S (%)	0.50%
d_b (ft)	1.30'
V (fps)	2.75

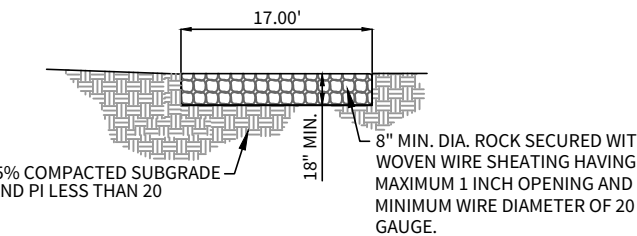
DRAIN 'D'

STA. 1+00.00 TO END



DETAIL A

(SCALE 1" = 10')



GABION STYLE ROCK EROSION CONTROL MATTRESS DETAIL

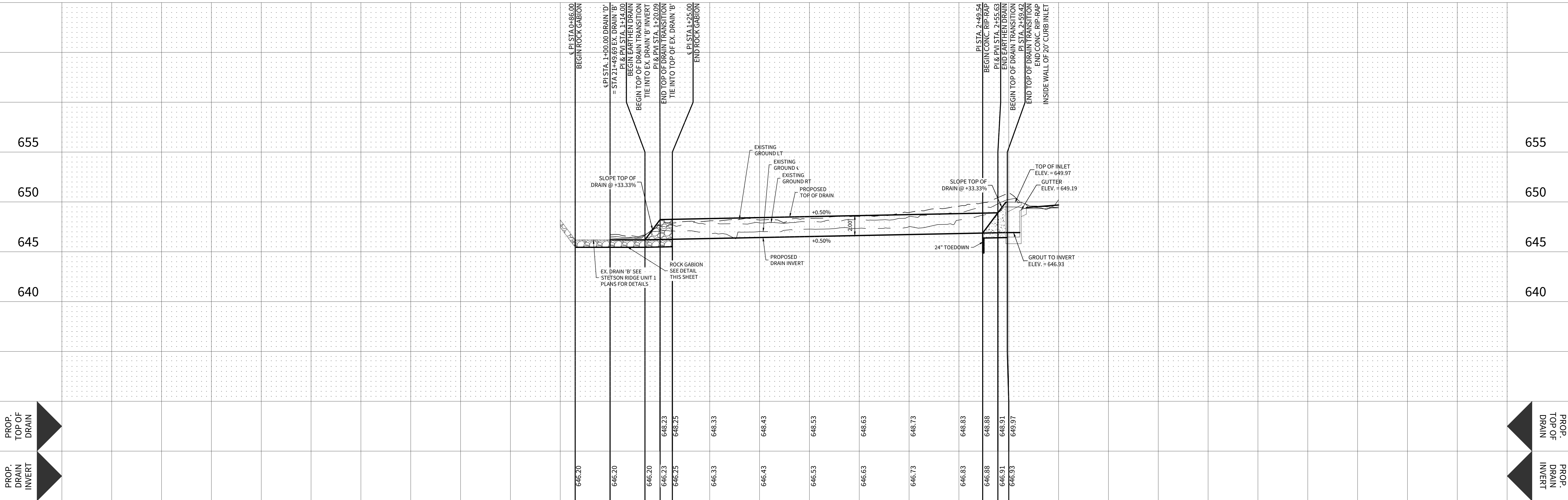
NOTE: GABION MATTRESS TO BE FREE OF GEO-TEXTILE FABRIC LINING.

(N.T.S.)

NOTES

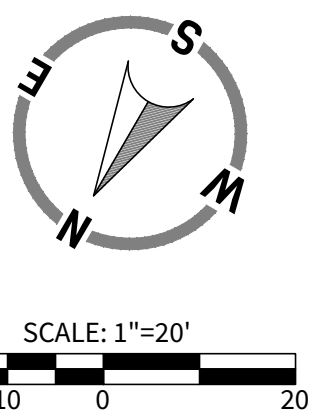
- ALL CONCRETE LINING SHALL DEVELOP A MINIMUM COMPRESSIVE STRENGTH OF 3,000 PSI IN 28 DAYS
- IMPROVED EARTHEN CHANNELS AND DETENTION PONDS WILL BE VEGETATE BY SEEDING OR SODDING, EIGHT-FIVE PERCENT (85%) OF THE CHANNEL SURFACE AREA MUST HAVE ESTABLISHED VEGETATION BEFORE THE DISTRICT WILL ACCEPT THE CHANNEL FOR MAINTENANCE

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



1+00

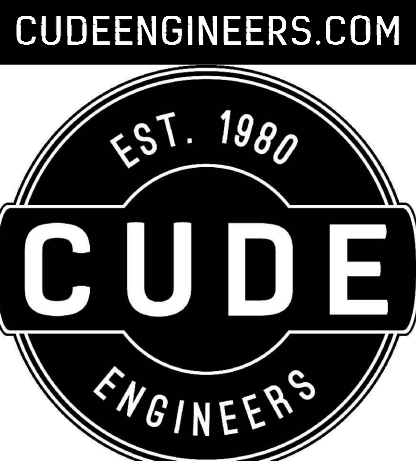
2+00



LEGEND

- PROPERTY BOUNDARY
- PROPOSED LOT LINE
- PROPOSED RIGHT OF WAY
- E.G.T.C.A. EASEMENT
- EXISTING 1' CONTOUR
- EXISTING 5' CONTOUR

- EARTHEN DRAINAGE CHANNEL
- CONCRETE RIP RAP
- ROCK GABION



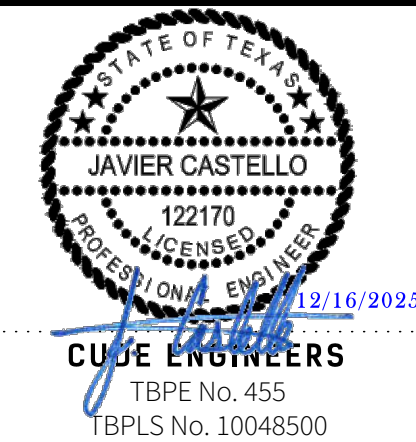
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**STETSON RIDGE
UNIT 2**

DRAIN PLAN & PROFILE - DRAIN 'D'

DATE	12/16/2025
PROJECT NO.	04127.005
DRAWN BY	CG/JG/LJ/TC
CHECKED BY	XV/JC

REVISIONS	
DATE	1 2 3 4 5 6 7 8 9



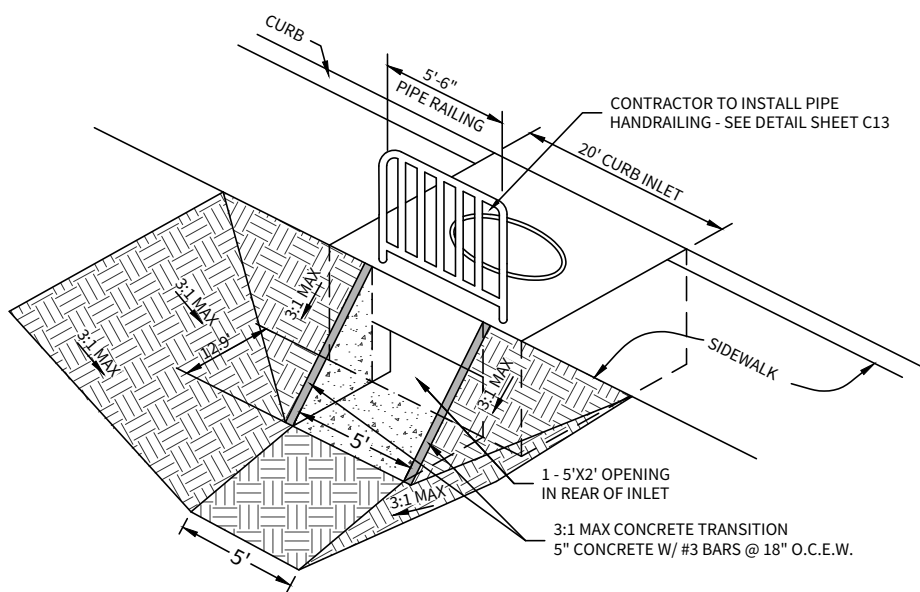
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TBPLS No. 10048500

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CUDEENGINEERS.COM

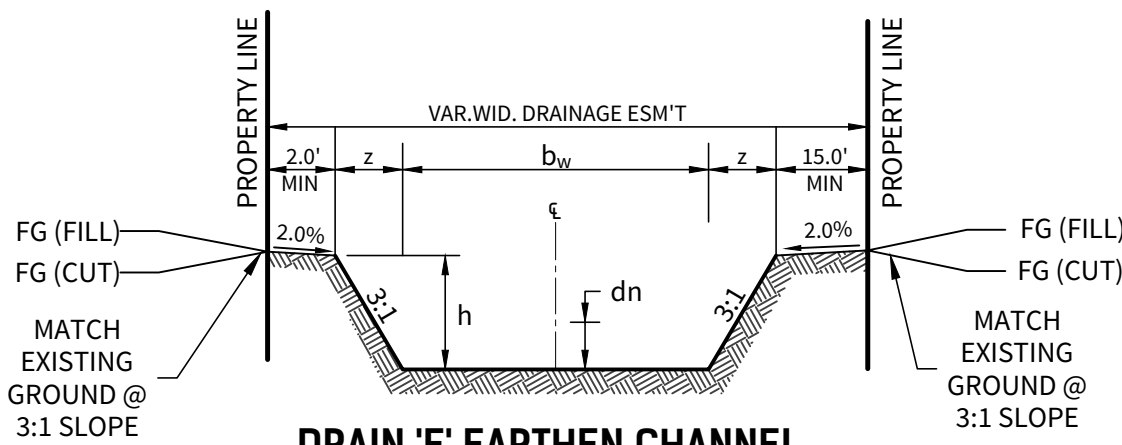
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DRAIN 'E'
CURB INLET & EARTHEN DRAIN DETAIL (N.T.S.)

NOTE: CONTRACTOR TO DOWEL CONC. TRANSITION TO REAR OF INLET WITH #4 DOWELS @ 12" O.C.



DRAIN 'E' EARTHEN CHANNEL

(N.T.S.)
'A-A' STA. 1+20.09 TO STA. 2+53.09

CURB INLET OPENING

$Q_{25} = 26.06 \text{ c.f.s.} / 2.06 = 12.65' \text{ REQ.}$

USED 20" INLET

$A = 10.00 \text{ s.f. (1 - 5' x 2')}$

$V = 2.61 \text{ f.p.s.}$

$H_v = 0.11'$

$1.5H_v = 0.16'$

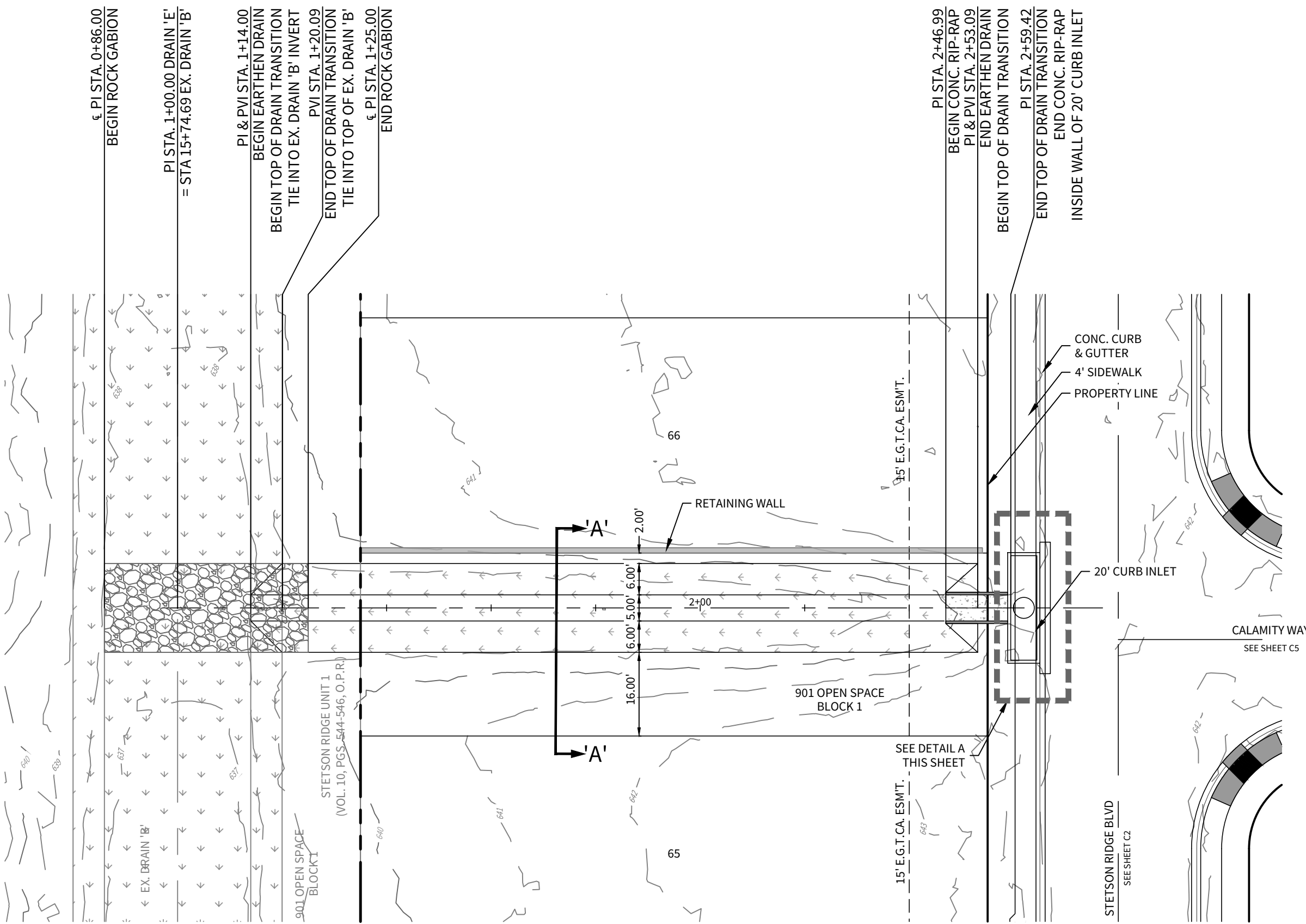
$H_w = z + y + 1.5H_v$

$H_w = 638.12' + 2.0' + 0.16'$

$H_w = 640.28$

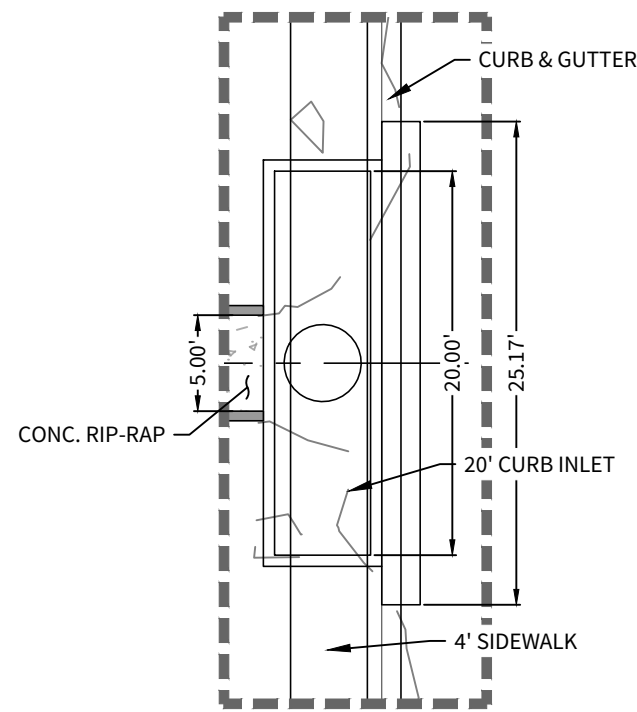
GUTTER = 641.22

	'A-A'
Q_{25} (cfs)	26.06
b_w (ft)	5.00'
z (ft)	6.00'
n	0.035
h (ft)	2.00'
S (%)	0.50%
d_v (ft)	1.17'
V (fps)	2.61



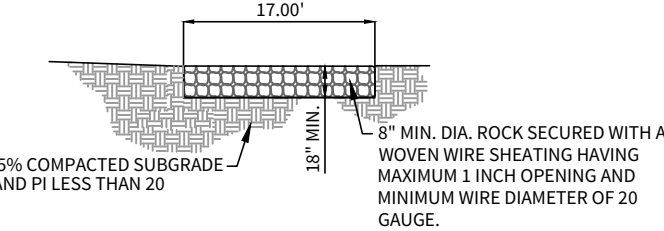
DRAIN 'E'

STA. 1+00.00 TO END



DETAIL A

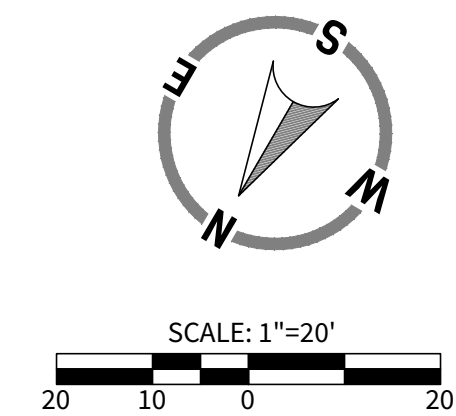
(SCALE 1" = 10')



GABION STYLE ROCK EROSION CONTROL MATTRESS DETAIL

NOTE: GABION MATTRESS TO BE FREE OF GEO-TEXTILE FABRIC LINING.

(N.T.S.)



LEGEND

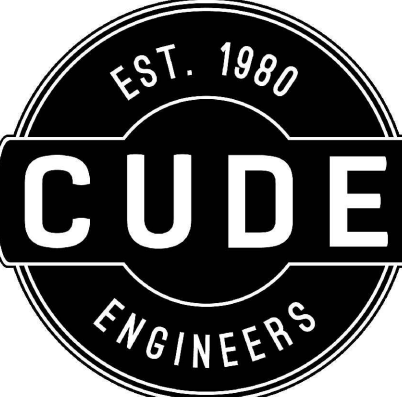
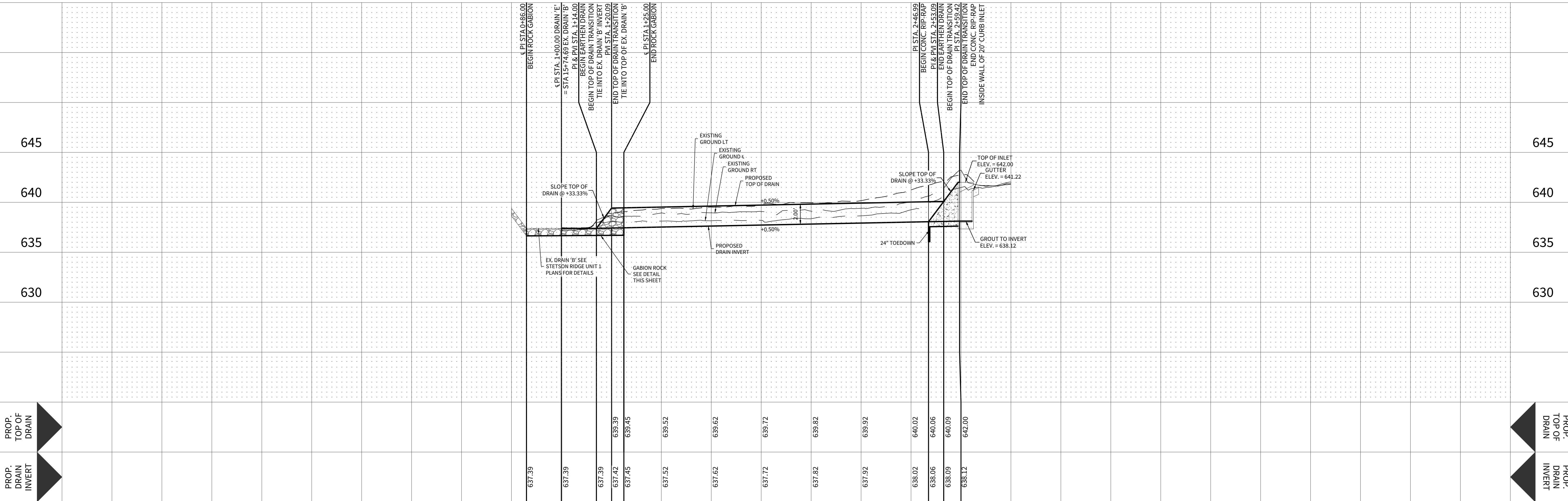
PROPERTY BOUNDARY	---
PROPOSED LOT LINE	---
PROPOSED RIGHT OF WAY	---
E.G.T.CA. EASEMENT	---
EXISTING 1' CONTOUR	---XXX---
EXISTING 5' CONTOUR	---XXX---

EARTHEN DRAINAGE CHANNEL	
CONCRETE RIP RAP	
ROCK GABION	

NOTES

- ALL CONCRETE LINING SHALL DEVELOP A MINIMUM COMPRESSIVE STRENGTH OF 3,000 PSI IN 28 DAYS
- IMPROVED EARTHEN CHANNELS AND DETENTION PONDS WILL BE VEGETATE BY SEEDING OR SODDING. EIGHT-FIVE PERCENT (85%) OF THE CHANNEL SURFACE AREA MUST HAVE ESTABLISHED VEGETATION BEFORE THE DISTRICT WILL ACCEPT THE CHANNEL FOR MAINTENANCE

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



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STETSON RIDGE

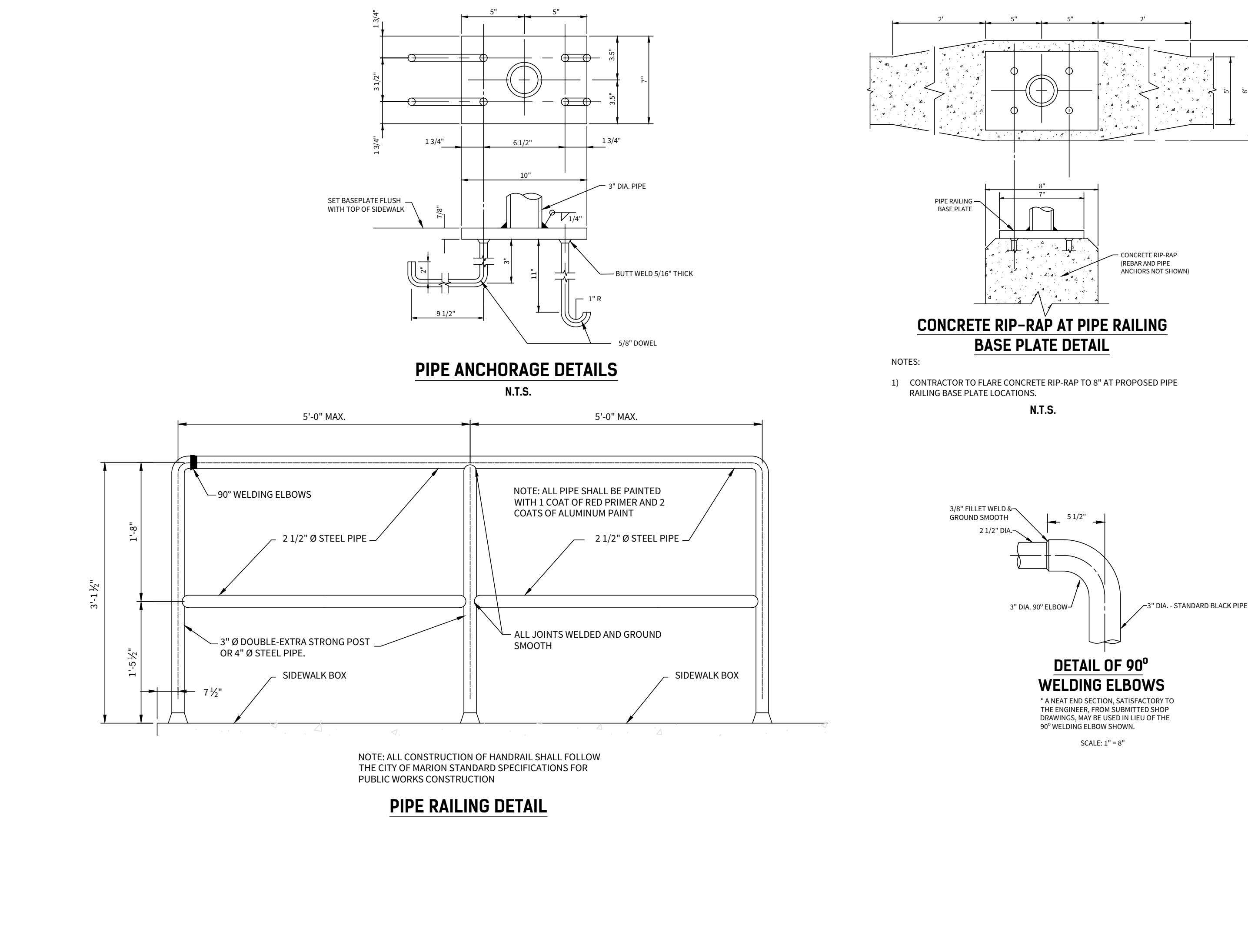
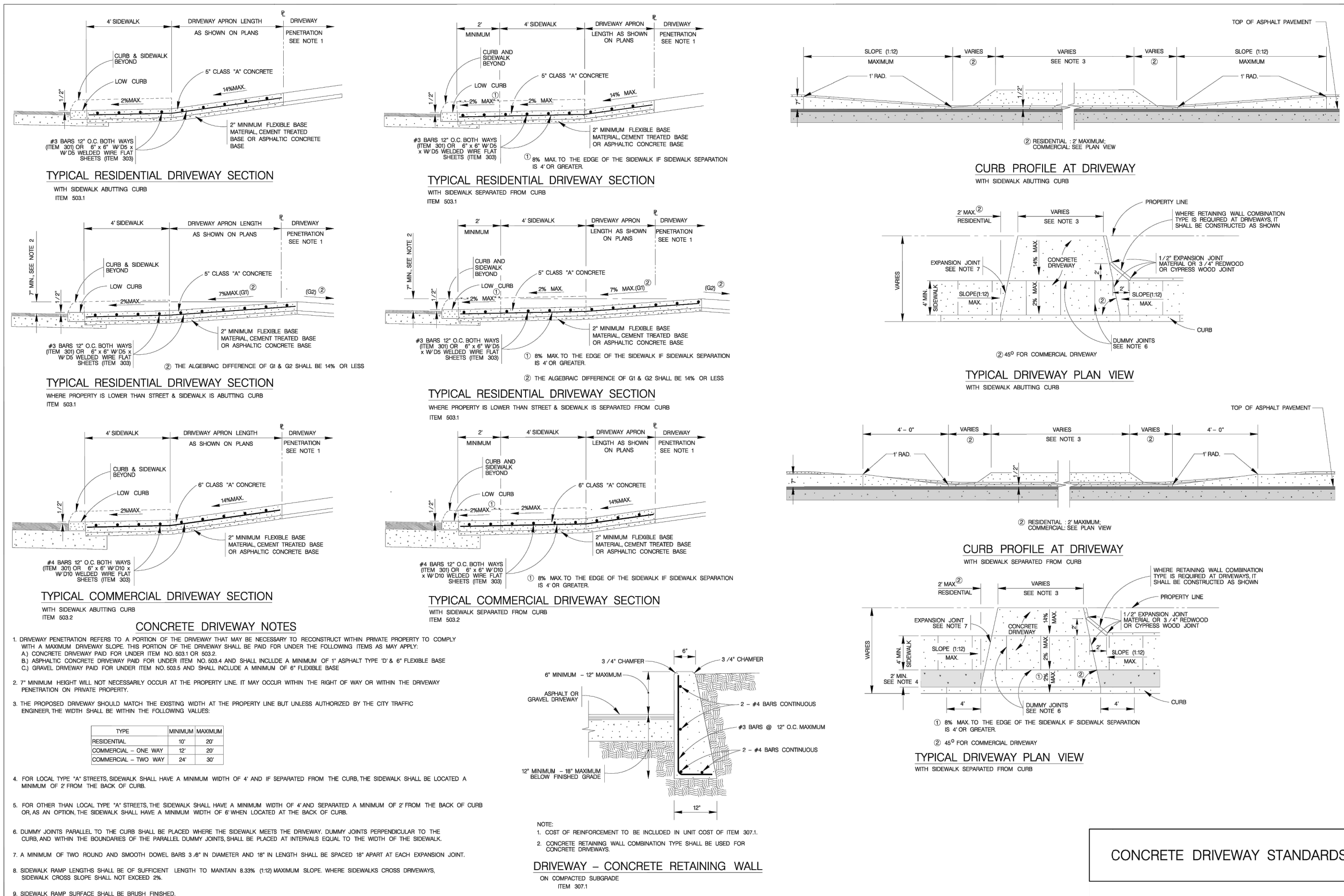
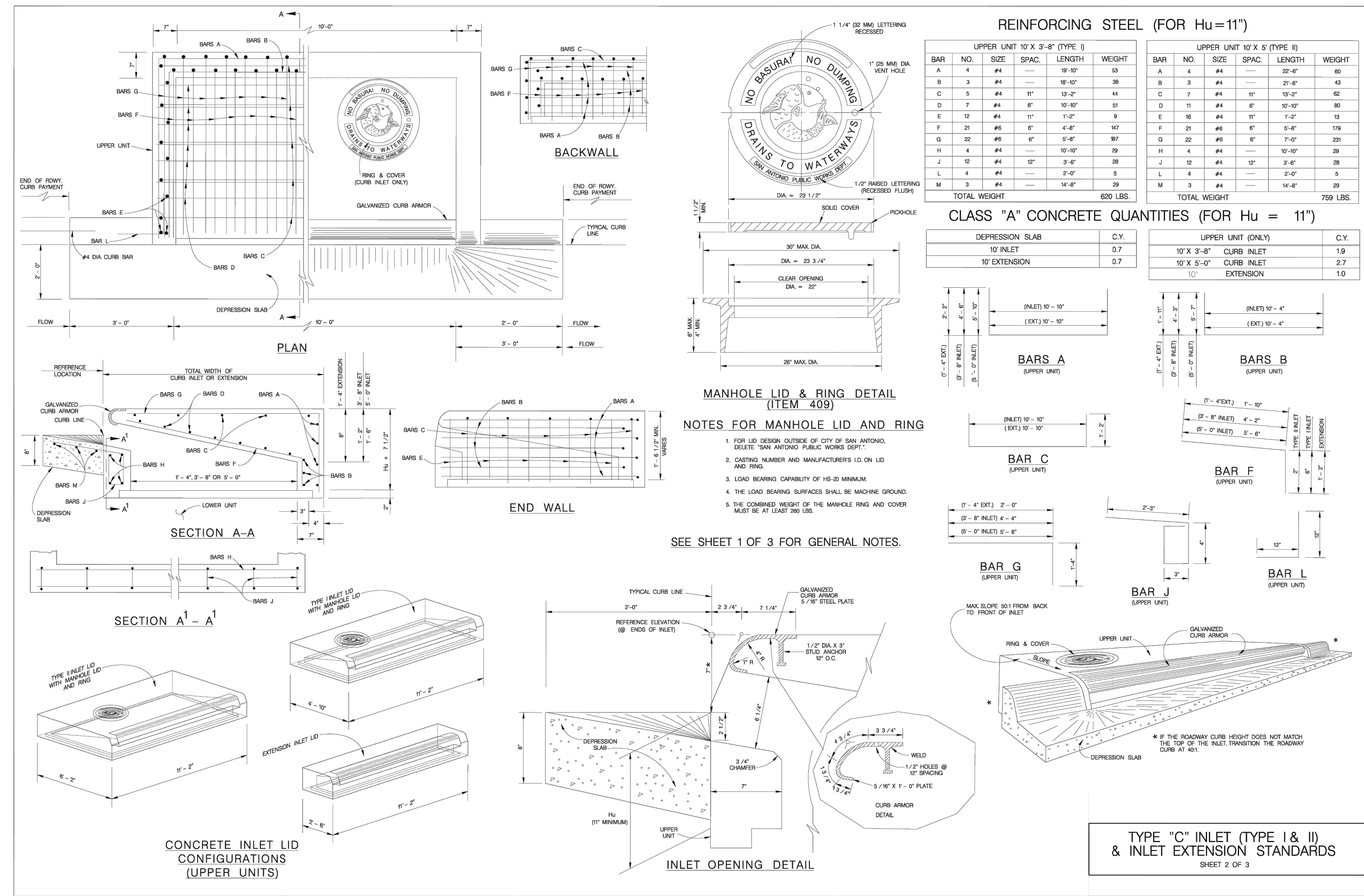
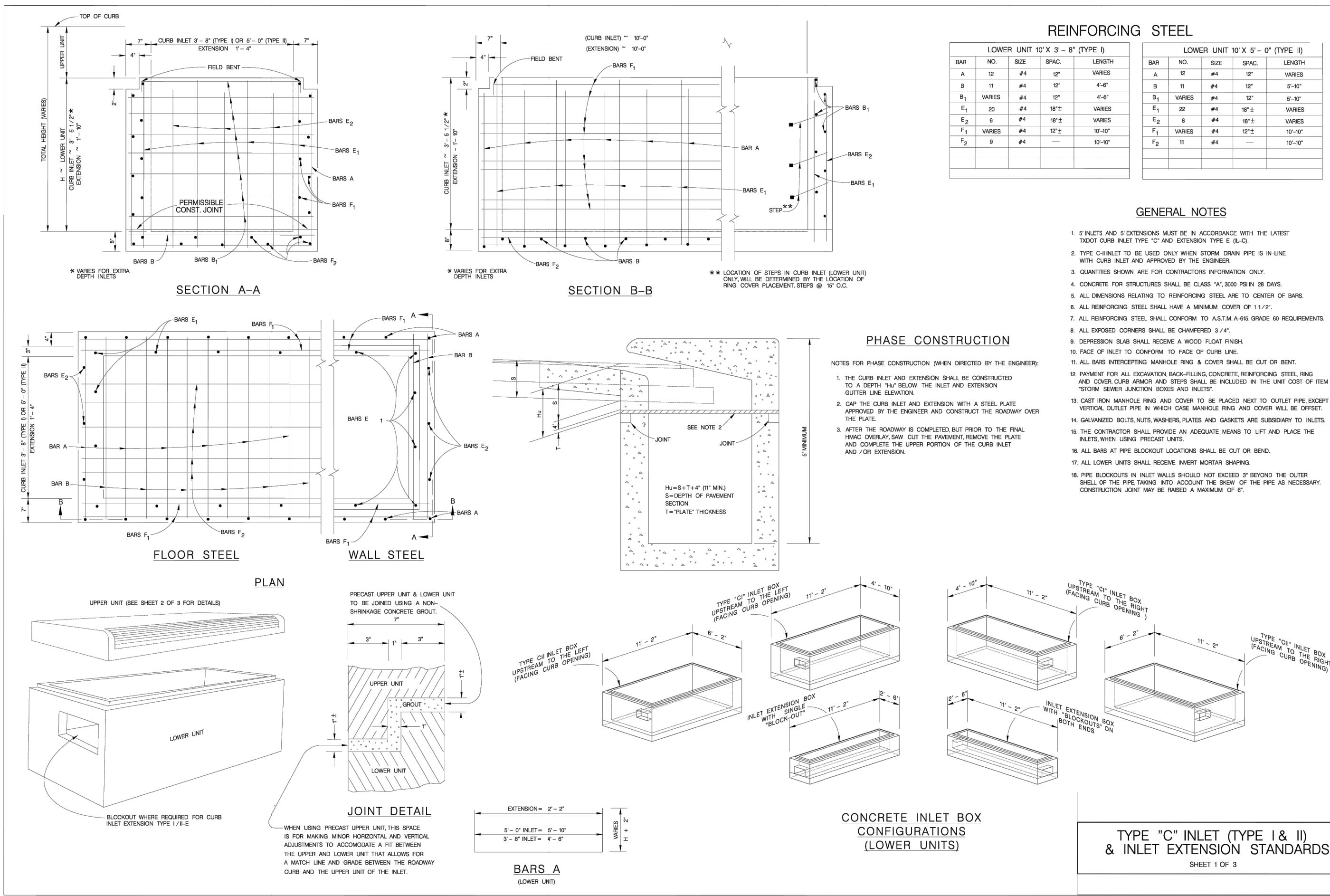
UNIT 2

DRAIN PLAN & PROFILE - DRAIN 'E'

DATE	12/16/2025
PROJECT NO.	04127.005
DRAWN BY	CG/JG/LJ/TC
CHECKED BY	XV/JC

REVISIONS	
DATE	
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STETSON RIDGE UNIT 2 DRAINAGE DETAILS

DATE
12/16/2025

PROJECT NO.
04127.005

DRAWN BY
CG/JG/LJ/TC

CHECKED BY
XV/JC

REVISIONS

DATE

STATE OF TEXAS

JAVIER CASTELLO

121710

12/16/2025

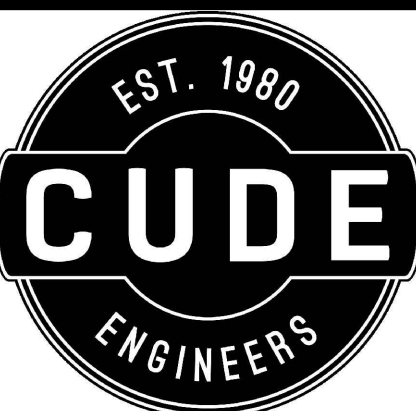
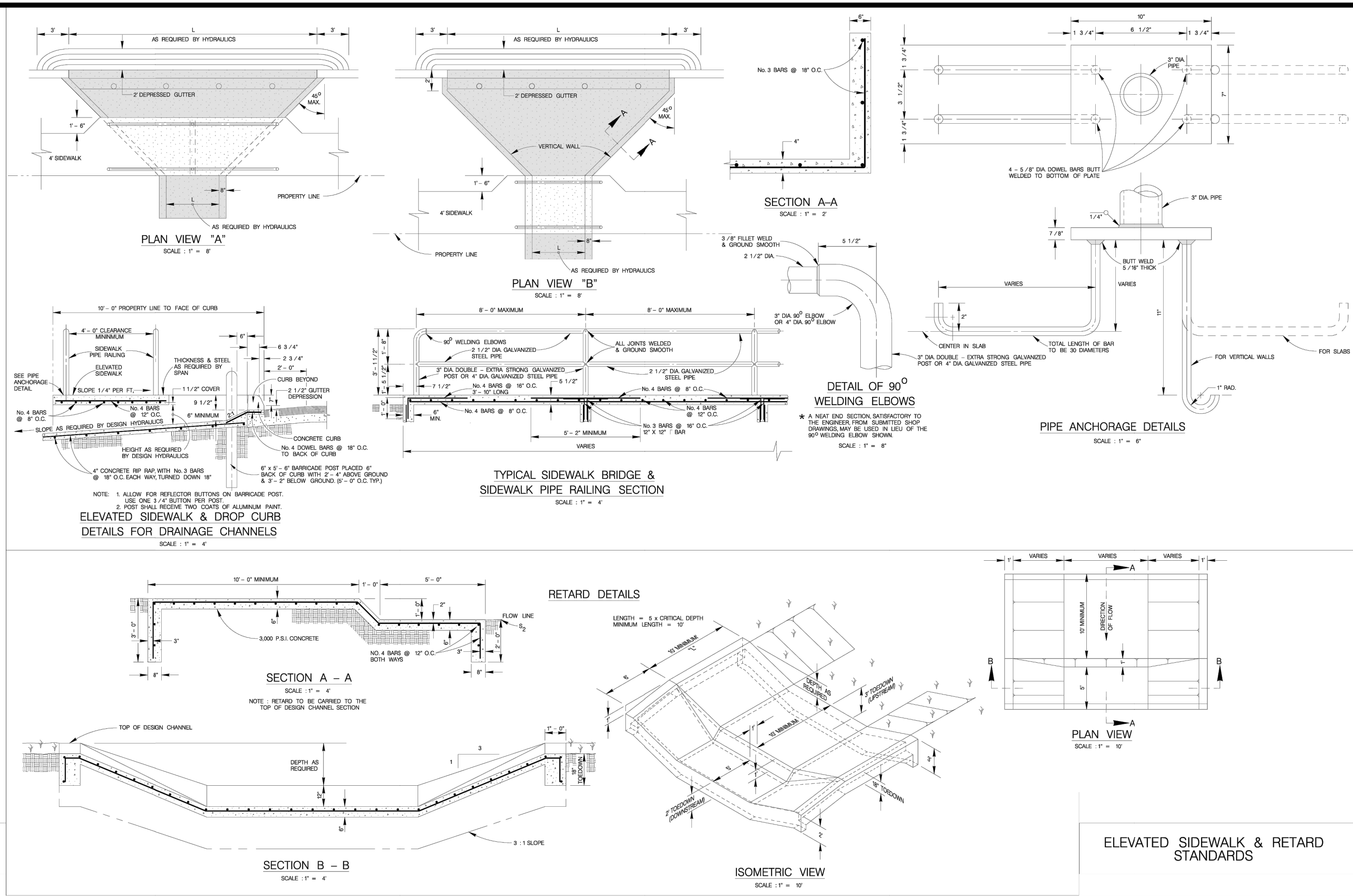
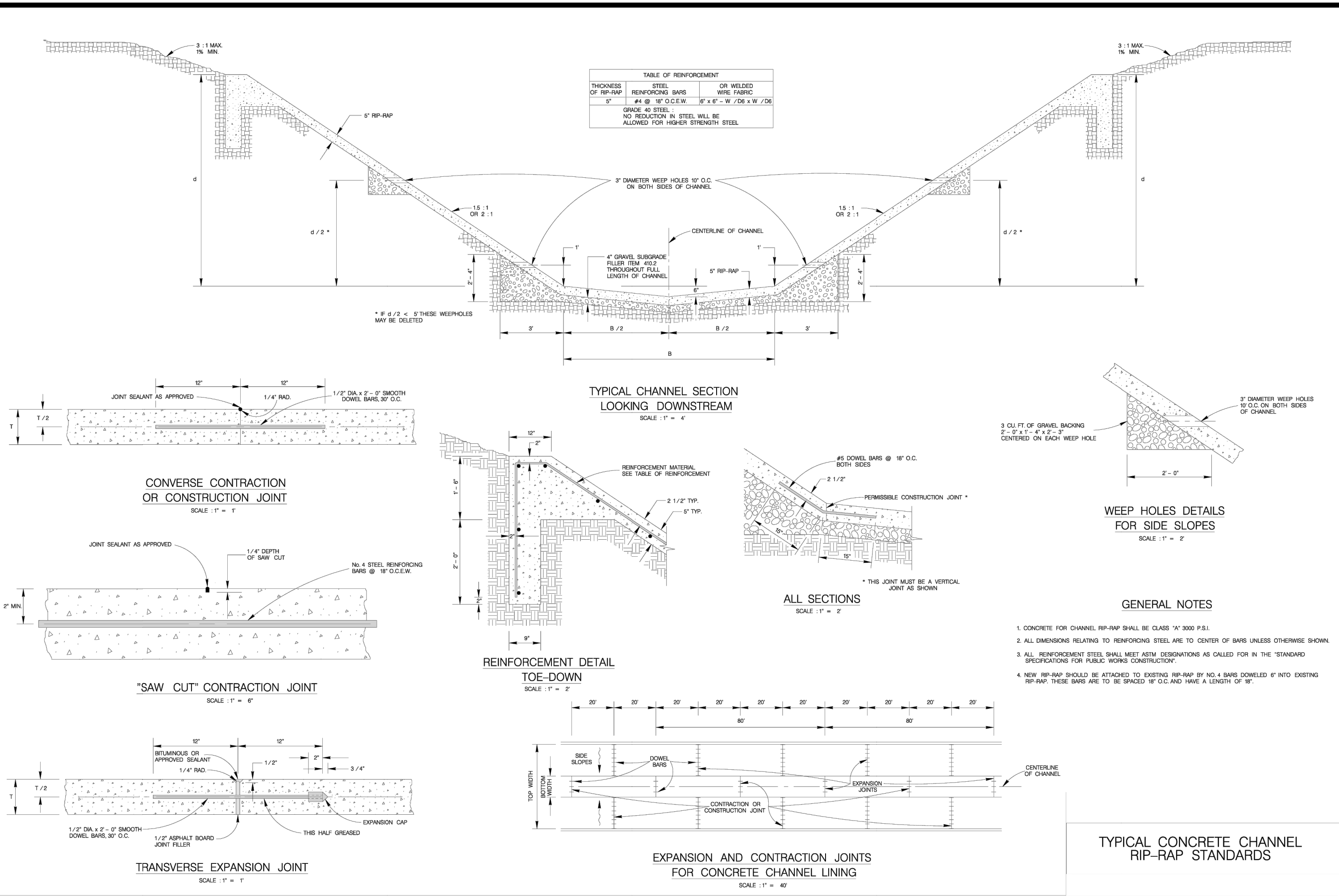
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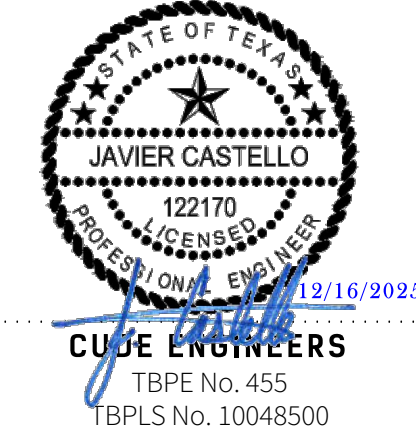
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San Antonio, Texas 78231
P:(210) 681.2951 F:(210) 523.7112

STETSON RIDGE
UNIT 2

DRAINAGE DETAILS

DATE
12/16/2025
PROJECT NO.
04127.005
DRAWN BY
CG/JG/LJ/TC
CHECKED BY
XV/JC

DATE	REVISIONS
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GREEN VALLEY SPECIAL UTILITY DISTRICT
SANITARY SEWER SYSTEM GENERAL NOTES

1. NOISE AND ODOR IMPACTS SHALL BE CONSIDERED IN DESIGN.
2. PIPING FRICTION LOSSES SHALL BE CALCULATED WITH A HAZEN-WILLIAMS COEFFICIENT NO GREATER THAN 130.
3. SANITARY TAPPING SADDLES ARE NOT ALLOWED.
4. LOW PRESSURE SANITARY SEWER COLLECTION SYSTEMS ARE NOT ALLOWED.
5. FORCE MAINS, AND VALVES SHALL BE LOCATED OUTSIDE OF ROADWAYS, PAVEMENT, CURBS, ETC., UNLESS SPECIFICALLY APPROVED OTHERWISE.
6. ALL FORCE MAINS TO BE INSTALLED 4-FEET MINIMUM BEHIND BACK OF CURB.
7. FORCE MAINS SHALL BE INSTALLED IN A 20-FOOT DEDICATED GVSUD SANITARY SEWER EASEMENT. INSTALLATION IN ROW WILL NOT BE ALLOWED.
8. GRAVITY WASTEWATER MAINS MAY BE INSTALLED WITHIN ROADWAYS.
9. ALL PIPING SHALL BE DESIGNED IN STRAIGHT ALIGNMENT. PIPE DEFLECTION IS NOT ALLOWED. GRAVITY MAINS SHALL NOT BE MORE THAN 20-FEET BELOW FINISHED GRADE AS MEASURED FROM PIPE INVERT TO FINISHED GRADE.
10. ALL SANITARY SEWER MAINS AND LATERALS ENTERING MANHOLES AT A DISTANCE OF 24-INCHES OR GREATER FROM PENETRATION TO INVERT SHALL BE EXTERNAL DROP MANHOLES.
11. WASTEWATER PIPE JOINTS SHALL BE CENTERED AT CROSSINGS WITH ALL OTHER UTILITIES. BOTH PIPE JOINTS SHALL BE CENTERED WHERE WATER CROSSES WASTEWATER 10-FEET IN EITHER DIRECTION, INCLUDING WASTEWATER LATERALS.
12. MAINTAIN A MINIMUM OF 10-FEET HORIZONTAL AND 24-INCH VERTICAL CLEARANCE BETWEEN WATER/WASTEWATER AND OTHER UTILITIES. SHARED TRENCHES ARE NOT ALLOWED.
13. WASTEWATER PIPING (INCLUDING MAINS, SERVICES, AND LATERALS) SHALL BE SLEEVED IF LOCATED UNDER BOX CULVERTS, SINGLE BARREL, OR MULTIPLE BARREL STORM SEWER CROSSINGS REGARDLESS OF SIZE.
14. PROFILE ALL WATER, WASTEWATER, AND STORM PIPING REGARDLESS OF SIZE. SHOW ALL UTILITY CROSSINGS ON ALL PROFILES. SHOW WASTEWATER SERVICE LATERALS ON STORM. SHOW/OVERLAY WATER AND STORM PROFILES ONTO WASTEWATER PIPING PROFILES.
15. AIR RELEASE VALVES SHALL BE PROVIDED FOR ALL FORCE MAINS REGARDLESS OF MAIN SIZE.
16. FORCE MAIN DEFLECTION IS NOT ALLOWED. ALL BENDS SHALL BE MJ RESTRAINED AND COATED PER TAC GUIDELINES.
17. FORCE MAIN PLUG VALVES SHALL BE INSTALLED EVERY 2,000-FEET MINIMUM.
18. FORCE MAINS SHALL BE 4-INCH MINIMUM DIAMETER.
19. SERVICE LATERALS SHALL BE 6-INCH MINIMUM DIAMETER.
20. SERVICE LATERAL STUBOUTS FOR HOME SHALL BE 2-FEET AND CAPPED.
21. CLEANOUTS ARE TO BE CENTERED IN LOT AND ON PROPERTY LINE.
22. CLEANOUTS TO BE PROTECTED BY UTILITY DEFENDER SHROUD OR APPROVED EQUIVALENT.
23. ALL MANHOLES ARE TO BE FLOW FILLED 6-INCHES MINIMUM.
24. PROVIDE RESTRAINT LENGTHS AT ALL BENDS.

MATERIALS

1. GRAVITY WASTEWATER PIPE AND FITTINGS SHALL BE GREEN COLOR GASKETED ASTM D3034 SDR26. ALL SANITARY SEWER AND WATER CROSSINGS SHALL BE SDR26 OF AT LEAST 150 PSI PRESSURE CLASS AND WHITE IN COLOR.
2. SANITARY TAPPING SADDLES ARE NOT ALLOWED.
3. FORCE MAIN PIPING SHALL BE GREEN COLOR C900 DR18 MINIMUM. FITTINGS SHALL BE AWWA C153 COMPACT MECHANICAL JOINT DUCTILE IRON WITH FORD UNI-FLANGE SERIES 1500 RESTRAINTS OR APPROVED EQUIVALENT. PIPE BELL JOINT RESTRAINTS SHALL BE FORD UNI-FLANGE SERIES 1300 OR APPROVED EQUIVALENT.
4. ALL FASTENERS SHALL BE 304 STAINLESS-STEEL (E.G. HARDWARE, SCREWS, ANCHOR BOLTS, RODS, FLANGE BOLTS AND NUTS, ETC.). ALL BOLTS AND NUTS SHALL BE HEAVY HEX. FIELD-APPLY NICKEL ANTI-SEIZE COMPOUND PRIOR TO ASSEMBLY. BOLTS AND NUTS SHALL NOT BE PAINTED.
5. ALL BURIED METAL PIPE, FITTINGS, AND VALVES SHALL BE WRAPPED WITH 8MIL POLY.
6. PAINT SHALL BE HIGH-BUILD EPOXY WITH TOPCOAT OF POLYURETHANE.
7. MANHOLE COATINGS SHALL BE SEWPERCOAT OR APPROVED EQUIVALENT. CONCRETE ADDITIVES MAY BE SUBSTITUTED IN LIEU OF COATINGS PER GVSUD APPROVAL.

TESTING

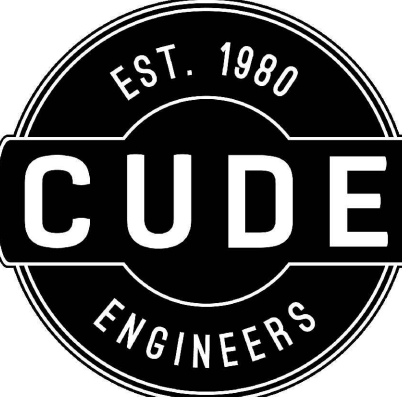
1. ALL TESTING SHALL BE ARRANGED AND PAID FOR BY THE CONTRACTOR AND WITNESSED BY GVSUD.
2. ALL TESTING MUST BE COMPLETE PRIOR TO PAVING STREETS.
3. THE CONTRACTOR SHALL PROVIDE GVSUD COPIES OF ALL TEST RESULTS PRIOR TO ACCEPTANCE OF THE PROJECT.
4. ALL TESTING MUST BE COMPLETE PRIOR TO PERFORMING TIE-INS TO EXISTING WASTEWATER SYSTEMS.
5. ALL OTHER UTILITIES MUST BE COMPLETE AND OFFSITE PRIOR TO PERFORMING WASTEWATER PRESSURE TESTING.
6. CONTRACTOR SHALL PERFORM PRE-TESTING TO VERIFY PASSING RESULTS PRIOR TO REQUESTING GVSUD INSPECTION. PROVIDE CONNECTION POINT FOR GVSUD DIGITAL TEST GAUGE (QUICK CONNECT).
7. PERFORM TRENCH BACKFILL DENSITY TESTING AT INTERVALS SPECIFIED BY THE DESIGN ENGINEER. EXACT LOCATIONS TO BE DESIGNATED BY INSPECTOR. SCHEDULE WITH GVSUD TO WITNESS 48 HOURS PRIOR TO TEST. PROVIDE COPIES OF REPORTS TO GVSUD.
8. ALL GRAVITY WASTEWATER PIPING SHALL BE SUBJECT TO LOW PRESSURE AIR TESTING IN ACCORDANCE WITH TCEQ REQUIREMENTS. INFILTRATION AND EXFILTRATION TESTING ARE NOT ALLOWED.
9. MANDREL SHALL BE PULLED BY HAND THROUGH ALL GRAVITY WASTEWATER MAINS PRIOR TO INSTALLATION OF CORROSION RESISTANT MANHOLE LINING, BUT NO EARLIER THAN 30 DAYS AFTER BACKFILLING IS COMPLETE.
10. ALL MANHOLES, REGARDLESS OF VEHICULAR TRAFFIC DETOURING, SHALL BE VACUUM TESTED AFTER COMPLETION OF BACKFILL, COMPACTION, AND FINAL GRADING OF ROAD BASE BUT PRIOR TO INSTALLATION OF ASPHALT PAVING AND PRIOR TO INSTALLATION OF CORROSION RESISTANT MANHOLE LINING. VACUUM TESTING SHALL BE PERFORMED WITH A PLATE TYPE TEST HEAD PLACED ON TOP OF COMPLETED MANHOLE METAL CASTING RING WHICH HAS BEEN INSTALLED AND ENCASED IN CONCRETE AT FINAL GRADE. MANHOLES SHALL BE TESTED AT 10-INCHES OF MERCURY FOR 2 MINUTES DURATION. ALLOWABLE LOSS IS 1-INCH OF MERCURY. INFILTRATION AND EXFILTRATION TESTING ARE NOT ALLOWED.
11. WIPING OF INTERNAL SEAMS IS NOT ALLOWED.
12. PERFORM VIDEO INSPECTION OF GRAVITY WASTEWATER PIPING AFTER APPLICATION OF CORROSION RESISTANT MANHOLE LINING. FLOOD SYSTEM WITH WATER IMMEDIATELY PRIOR TO PERFORMING VIDEO INSPECTION. HANG AND DRAG A GOLF BALL IN FRONT OF CAMERA. PIPE GRADE IS OUT OF TOLERANCE IF WATER LEVEL IS MORE THAN A FULL GOLF BALL. SCHEDULE GVSUD TO WITNESS VIDEO INSPECTION. PROVIDE PDF AND WRITTEN REPORTS TO GVSUD.
13. FOLLOW TCEQ PIPE TESTING PROCEDURES AND ALLOWABLE LEAKAGE FOR FORCE MAINS. TEST EVERY VALVE SECTION (I.E. TEST AGAINST EVERY VALVE IN CLOSED POSITION). TEST PRESSURE SHALL BE THE MAXIMUM RATING OF MATERIAL INSTALLED.

CONSTRUCTION NOTES

1. ALL WORK SHALL BE IN ACCORDANCE WITH GVSUD STANDARDS AS PUBLISHED AT THE FOLLOWING WEBSITE: [HTTP://WWW.GVSUD.ORG/](http://www.gvsud.org/)
2. MATERIAL SUBMITTALS SHALL BE PROVIDED FOR GVSUD REVIEW AND APPROVAL. ALLOW 21 CALENDAR DAYS FOR REVIEW.
3. ALL WASTEWATER INSTALLATIONS MUST BE INSPECTED AND APPROVED BY GVSUD PRIOR TO BACKFILLING OR OTHERWISE COVERING THE WORK. GVSUD WILL REJECT ANYTHING BACKFILLED PRIOR TO GVSUD APPROVAL. THIS INCLUDES CROSSINGS OF WATER AND WASTEWATER BY OTHER UTILITIES. GVSUD WILL PERFORM A MAXIMUM OF ONE (1) INSPECTION DAILY FOR ONE (1) HOUR DURATION BETWEEN 7:30AM AND 4:00PM EXCLUDING WEEKENDS AND HOLIDAYS. CALL TO SCHEDULE INSPECTIONS (48-HOURS ADVANCE NOTICE IS REQUIRED FOR ALL INSPECTIONS).
4. TRENCH EXCAVATION AND PIPE INSTALLATION WILL NOT BE PERMITTED UNTIL SUBGRADE HAS BEEN ESTABLISHED. SURVEY STAKING MUST BE INSTALLED PRIOR TO AND MAINTAINED DURING TRENCH EXCAVATION AND PIPE INSTALLATION. SURVEY STAKING SHALL INCLUDE HORIZONTAL AND VERTICAL CONTROL AT A MINIMUM OF 50-FOOT STATION INTERVALS. SURVEY STAKING SHALL BE PERFORMED BY THE CONTRACTOR.
5. PROPER SHORING AND/OR BENCHING MUST BE PRESENT AT ALL TIMES FOR ANYTHING 4-FEET IN DEPTH OR DEEPER. GVSUD WILL STOP WORK UNTIL PROPER SAFETY PROTOCOLS HAVE BEEN ESTABLISHED.
6. BACKFLOW PREVENTION IN THE FORM OF A REDUCED PRESSURE ZONE BACKFLOW ASSEMBLY MUST BE PROVIDED FOR TEMPORARY CONNECTIONS TO EXISTING WATER LINES. BACKFLOW PREVENTION ASSEMBLIES SHALL BE TESTED AND SUBMITTED TO GVSUD BY A LICENSED BACKFLOW PREVENTION ASSEMBLY TESTER.
7. SANITARY TAPPING SADDLES ARE NOT ALLOWED.
8. ALL MANHOLE SECTIONS SHALL BE GROUTED. GATOR TAPE SHALL NOT BE PERMITTED.
9. PIPE BELLS SHALL BE INSTALLED IN UPSTREAM DIRECTION.
10. ALL PIPING SHALL BE INSTALLED IN STRAIGHT ALIGNMENT. PIPE DEFLECTION IS NOT ALLOWED.
11. INSTALL CONCRETE THRUST BLOCKING AND MECHANICAL JOINT RESTRAINTS FOR PRESSURE PIPING SYSTEMS.
12. WASTEWATER PIPE SHALL BE INSTALLED BELOW ALL WATER AND ALL JOINTS SHALL BE CENTERED AT CROSSINGS WITH ALL OTHER UTILITIES. PIPE JOINTS SHALL BE CENTERED WHERE WATER CROSSES WASTEWATER 10-FEET IN EITHER DIRECTION, INCLUDING WASTEWATER LATERALS.
13. MAINTAIN A MINIMUM OF 10-FEET HORIZONTAL AND 24-INCH VERTICAL CLEARANCE BETWEEN WATER AND WASTEWATER AND OTHER UTILITIES. SHARED TRENCHES ARE NOT ALLOWED.
14. WASTEWATER PIPING SHALL BE SLEEVED IF LOCATED UNDER BOX CULVERTS, SINGLE BARREL, OR MULTIPLE BARREL STORM SEWER CROSSINGS REGARDLESS OF SIZE.
15. VALVE BOXES AND APPURTENANCES SHALL BE PAINTED. PROVIDE PAINTED CURB CUT MARKINGS AT VALVES AND SERVICES. SAFETY GREEN FOR SEWER, SAFETY PURPLE FOR RECLAIMED.
16. ALL EXPOSED VERTICAL AND HORIZONTAL CONCRETE EDGES SHALL BE FORMED WITH ¾" CHAMFER STRIPS. CONCRETE IN UNPAVED AREAS SHALL BE 2-INCHES ABOVE FINISH GRADE.
17. EXISTING MANHOLES THAT ARE DISTURBED SHALL BE RESTORED TO BE IN FULL COMPLIANCE WITH CURRENT STANDARDS INCLUDING TESTING, CORROSION RESISTANT LINING, RINGS AND COVERS, ETC.
18. THE CONTRACTOR SHALL PROVIDE A COMPETENT AND QUALIFIED SUPERINTENDENT TO SUPERVISE ALL WORK. THE SUPERINTENDENT SHALL BE PRESENT DURING ALL CONSTRUCTION ACTIVITIES, INCLUDING INSPECTIONS.
19. NO SEPARATE PAY WILL BE GIVEN TO DE-WATER TRENCHES OR OTHER EXCAVATED AREAS.

CRITERIA FOR SEWER MAIN CONSTRUCTION IN THE VICINITY OF WATER MAINS

- I. WHERE A SEWER MAIN CROSSES OVER A WATER MAIN AND THE SEPARATION DISTANCE IS LESS THAN NINE (9) FEET, ALL PORTIONS OF THE SEWER MAIN WITHIN NINE (9) FEET OF THE WATER LINE SHALL BE CONSTRUCTED USING 150 PSI PRESSURE RATED PIPE AT LEAST EIGHTEEN (18) FEET IN LENGTH MAY BE CENTERED ON THE WATER MAIN IN LIEU OF PIPE CONNECTION REQUIREMENTS (NO SEPARATE PAY ITEM)
- II. WHERE SEMI-RIGID OR RIGID SEWER MAIN CROSSES UNDER A WATER MAIN AND THE SEPARATION DISTANCE IS LESS THAN NINE FEET BUT GREATER THAN TWO FEET, THE INITIAL BACKFILL SHALL BE CEMENT STABILIZED SAND (TWO OR MORE BAGS OF CEMENT PER CUBIC YARD OF SAND) FOR ALL SECTIONS OF THE SEWER WITHIN NINE FEET OF THE WATER MAIN.
- III. WHERE A SEWER MAIN CROSSES UNDER A WATER MAIN AND THE SEPARATION DISTANCE IS LESS THAN TWO FEET, THE SEWER MAIN SHALL BE CONSTRUCTED OF CAST IRON, DUCTILE IRON, OR PVC WITH A MINIMUM PRESSURE RATING OF 150 PSI WITHIN NINE FEET OF THE WATER MAIN, SHALL BE PLACED NO CLOSER THAN SIX (6") INCHES BETWEEN OUTER DIAMETERS, AND SHALL BE JOINED WITH PRESSURE RING GASKET CONNECTIONS OR CORROSION PROTECTED MECHANICAL COUPLING DEVICES OR A CAST IRON OR DUCTILE IRON MATERIAL. A SECTION OF PSI PRESSURE RATE PIPE OF A LENGTH GREATER THAN EIGHTEEN (18) FEET MAY BE CENTERED ON THE WATER MAIN IN LIEU OF PIPE CONNECTION REQUIREMENTS. (NO SEPARATE PAY ITEM).
- IV. WHERE A SEWER MAIN PARALLELS A WATER MAIN AND THE SEPARATION DISTANCE IS LESS THAN NINE FEET, THE SEWER MAIN SHALL BE BELOW THE WATER MAIN. SHALL BE CONSTRUCTED OF CAST IRON, DUCTILE IRON OR PVC WITH A MINIMUM PRESSURE RATING OF 150 PSI FOR BOTH PIPE AND JOINTS FOR A DISTANCE OF NINE FEET BEYOND THE POINT OF CONFLICT, SHALL MAINTAIN A MINIMUM SEPARATION DISTANCE BETWEEN OUTER DIAMETERS OF TWO FEET VERTICALLY AND FOUR FEET HORIZONTALLY, AND SHALL BE JOINED WITH PRESSURE RING GASKET CONNECTIONS OR CORROSION PROTECTED MECHANICAL COUPLING DEVICES OF A CAST IRON OF DUCTILE IRON MATERIALS.
- V. SANITARY SEWER MANHOLES SHALL NOT BE INSTALLED ANY CLOSER THAN NINE FEET TO WATER MAINS.
- VI. PLAN AND PROFILE MUST SHOW TYPE OF CROSSING AND MATERIAL TO USE.



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STETSON RIDGE
UNIT 2
SANITARY SEWER GENERAL NOTES

DATE
12/16/2025

PROJECT NO.
04127.005

DRAWN BY
CG/JG/LJ/TCD

CHECKED BY
XV/JC

REVISIONS

DATE

1. 2025-12-16

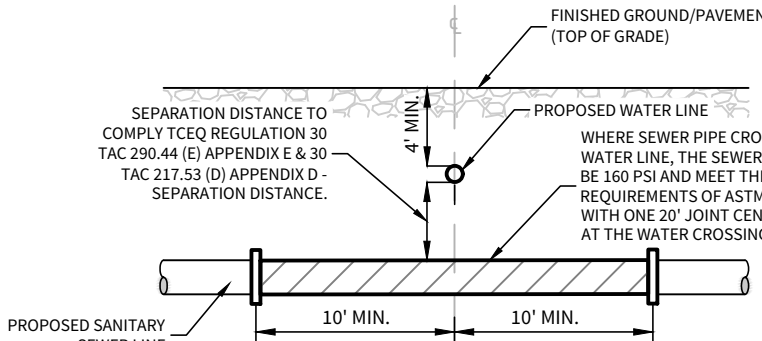
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TYPICAL SANITARY SEWER/ WATER CROSSING DETAIL
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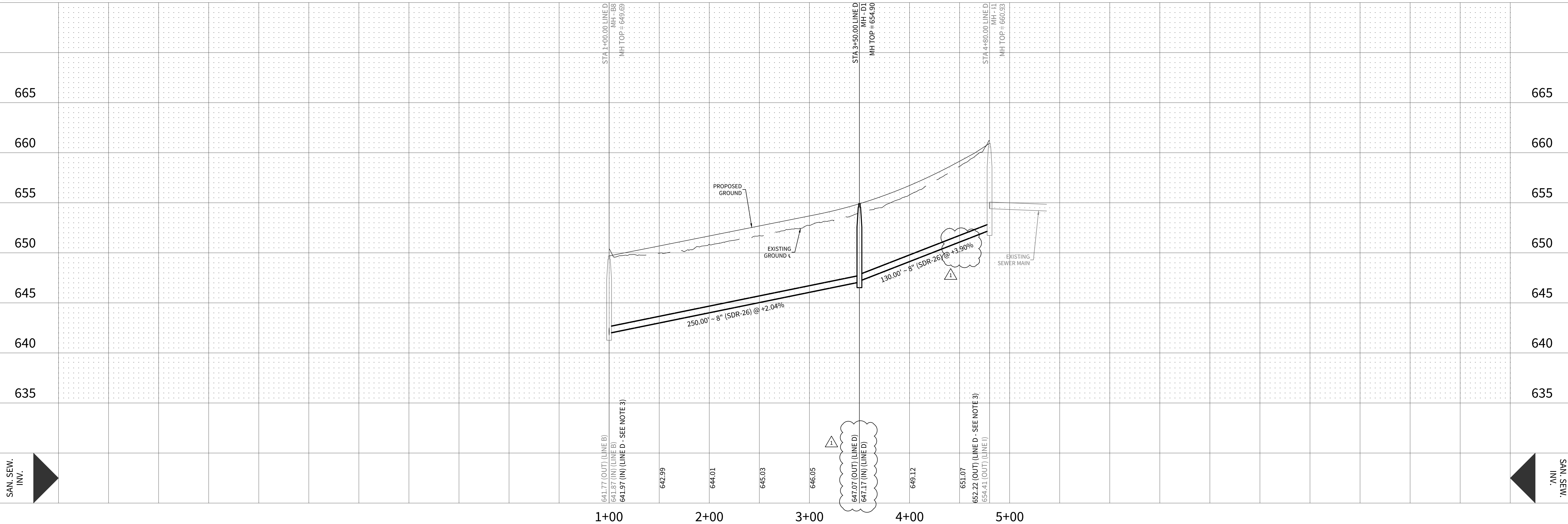
NOTES:

1. CONTRACTOR TO INSTALL WATERTIGHT MANHOLES WITH 30" OPENING AND INTERIOR WALL COATED WITH A GVSUD APPROVED SEWER STRUCTURE FOR ALL MANHOLES WITHIN THIS DEVELOPMENT.
2. ALL SEWER LATERALS AND PROPERTY LINE CLEANOUTS ARE TO BE LOCATED OUTSIDE OF DRIVEWAY PAVED AREAS.
3. CONTRACTOR TO CORE EX. MANHOLE AT INVERT SHOWN ON PROFILE.

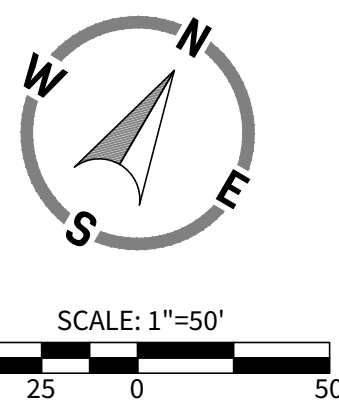
CONTRACTOR SHALL VERIFY THE EXACT LOCATION OF UNDERGROUND UTILITIES AND OTHER UNDERGROUND STRUCTURES WHETHER SHOWN ON THE PLANS OR NOT. CONTRACTOR WILL NOTIFY ALL UTILITY COMPANIES AT LEAST 72 HOURS PRIOR TO EXCAVATION.	
CITY OF MARION	(830) 914-2391
GVSUD	(830) 914-2330
GVC	(830) 885-4411
GVEC	1-800-401-8345
DIG TESS	1-800-344-8377
TEXAS STATE WIDE ONE CALL LOCATORS	1-800-545-6005 OR 811

TRENCH EXCAVATION PROTECTION

CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR STRUCTURAL DESIGN/GEOTECHNICAL/SAFETY/EQUIPMENT CONSULTANT, IF ANY, SHALL REVIEW THESE PLANS AND AVAILABLE GEOTECHNICAL INFORMATION AND THE ANTICIPATED INSTALLATION SITE(S) 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.



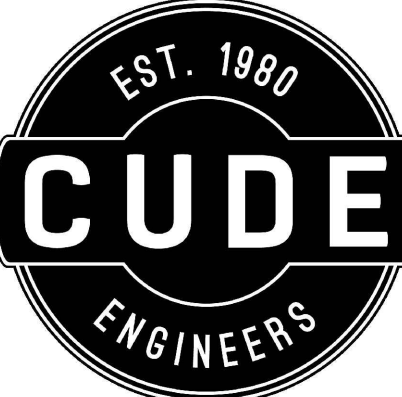
HORIZONTAL SCALE: 1" = 50'
VERTICAL SCALE: 1" = 5'



LEGEND

- OVERALL UNIT BOUNDARY
- PROPOSED LOT LINE
- PROPOSED RIGHT OF WAY
- E.G.T.C.A. EASEMENT
- EXISTING 2' CONTOUR
- EXISTING 10' CONTOUR
- PROPOSED WATER LINE
- PROPOSED SEWER MAIN
- PROPOSED MANHOLE
- EXISTING WATER LINE
- EXISTING SEWER LINE
- EXISTING MANHOLE

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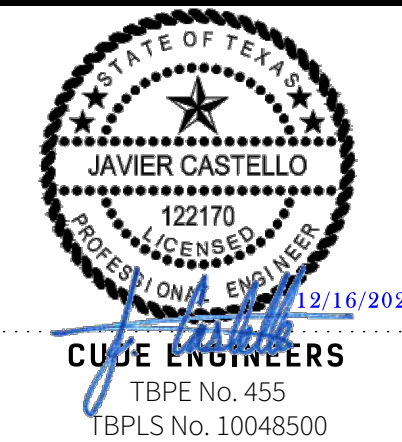
STETSON RIDGE
UNIT 2

SANITARY SEWER PLAN & PROFILE - LINE D

DATE
12/16/2025
PROJECT NO.
04127.005
DRAWN BY
CG/JG/LJ/TC
CHECKED BY
XV/JC

REVISIONS

DATE	REVISIONS
2025-12-16	1. 2. 3. 4. 5. 6. 7. 8. 9.

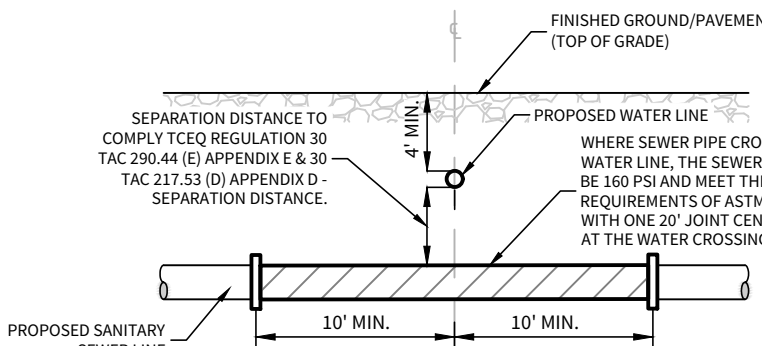


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TYPICAL SANITARY SEWER/ WATER CROSSING DETAIL
N.T.S.

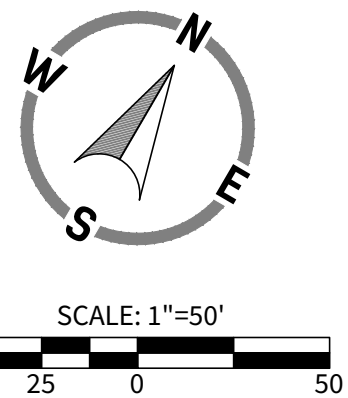
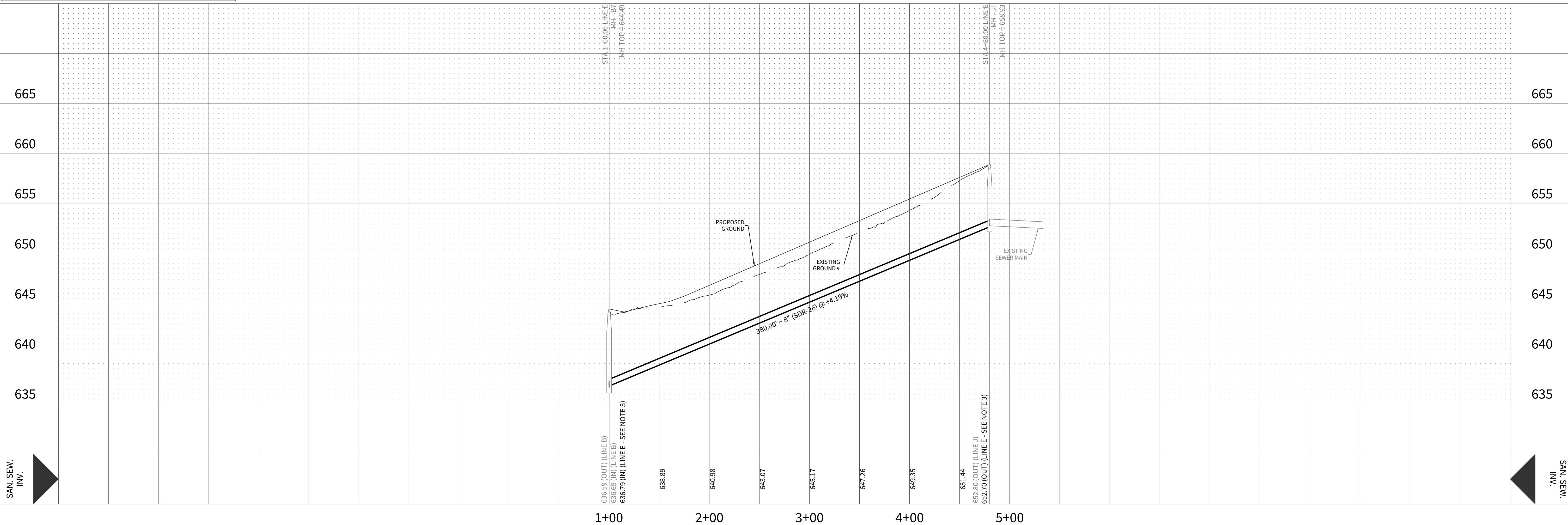
- NOTES:**
- CONTRACTOR TO INSTALL WATERTIGHT MANHOLES WITH 30" OPENING AND INTERIOR WALL COATED WITH A GVSUD APPROVED SEWER STRUCTURE FOR ALL MANHOLES WITHIN THIS DEVELOPMENT.
 - ALL SEWER LATERALS AND PROPERTY LINE CLEANOUTS ARE TO BE LOCATED OUTSIDE OF DRIVEWAY PAVED AREAS.
 - CONTRACTOR TO CORE EX. MANHOLE AT INVERT SHOWN ON PROFILE.

CONTRACTOR SHALL VERIFY THE EXACT LOCATION OF UNDERGROUND UTILITIES AND OTHER UNDERGROUND STRUCTURES WHETHER SHOWN ON THE PLANS OR NOT. CONTRACTOR WILL NOTIFY ALL UTILITY COMPANIES AT LEAST 72 HOURS PRIOR TO EXCAVATION.

CITY OF MARION	(830) 914-2391
GVSUD	(830) 914-2330
GVC	(830) 885-4411
GVEC	1-800-401-8345
DIG TESS	1-800-344-8377
TEXAS STATE WIDE ONE CALL LOCATORS	1-800-545-6005 OR 811

TRENCH EXCAVATION PROTECTION

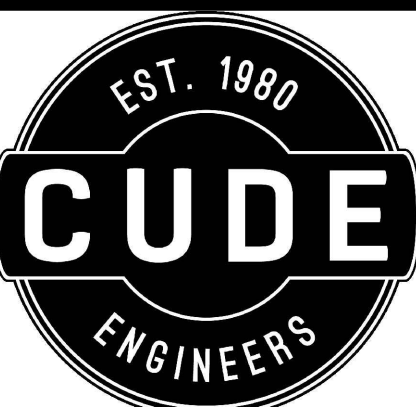
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LEGEND

- OVERALL UNIT BOUNDARY ---
- PROPOSED LOT LINE ---
- PROPOSED RIGHT OF WAY ---
- E.G.T.C.A. EASEMENT ---
- EXISTING 2' CONTOUR ---
- EXISTING 10' CONTOUR ---
- PROPOSED WATER LINE --- W ---
- PROPOSED SEWER MAIN --- SS ---
- PROPOSED MANHOLE --- ● ---
- EXISTING WATER LINE --- Wx ---
- EXISTING SEWER LINE --- Ssx ---
- EXISTING MANHOLE --- ● ---

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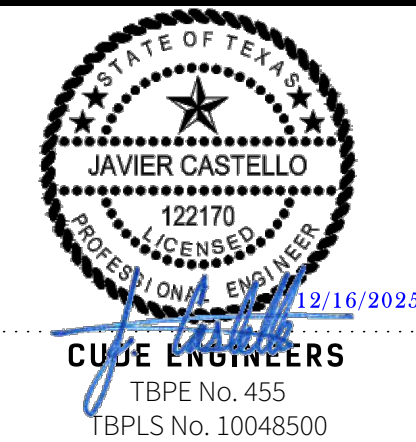


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STETSON RIDGE
UNIT 2
SANITARY SEWER PLAN & PROFILE - LINE E

DATE
12/16/2025
PROJECT NO.
04127.005
DRAWN BY
CG/JG/LJ/TC
CHECKED BY
XV/JC

DATE	REVISIONS
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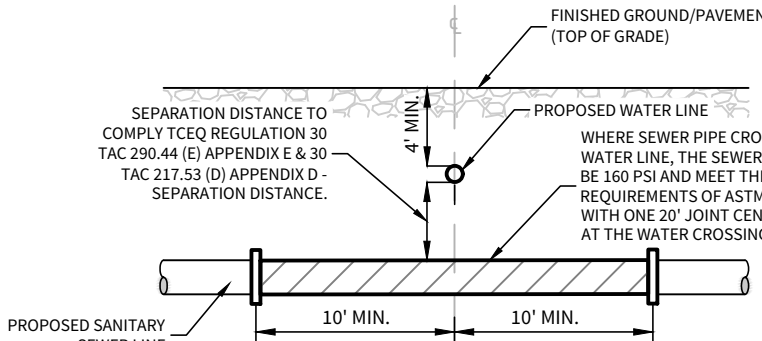
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TYPICAL SANITARY SEWER/ WATER CROSSING DETAIL
N.T.S.

NOTES:

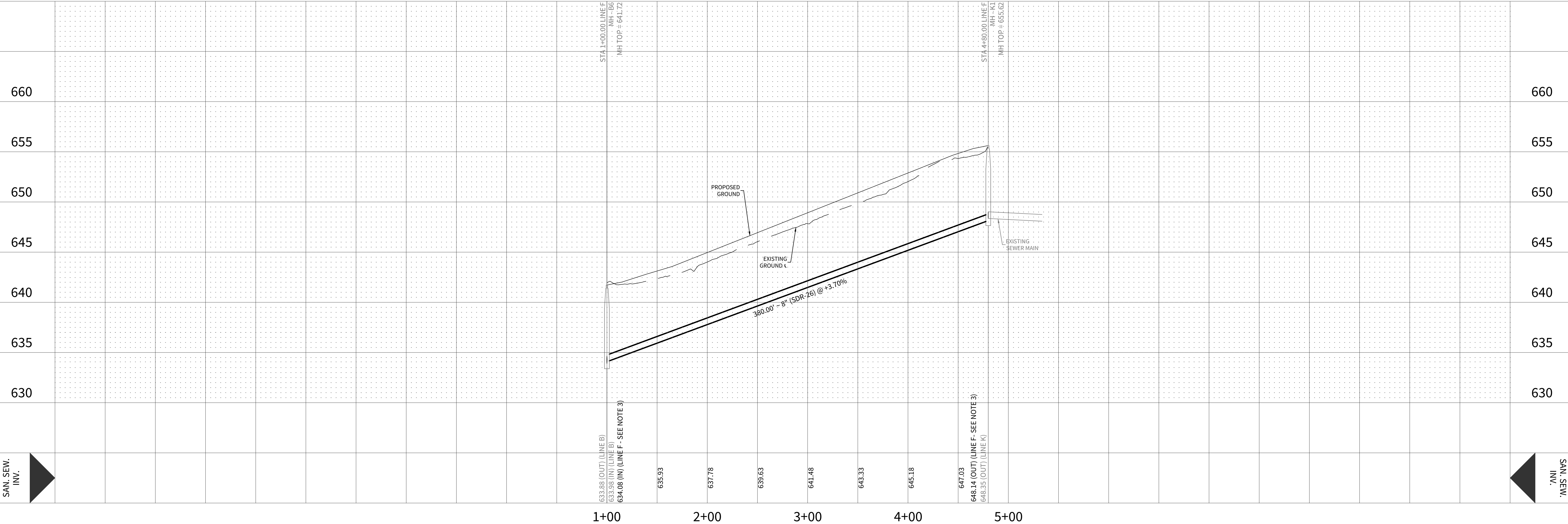
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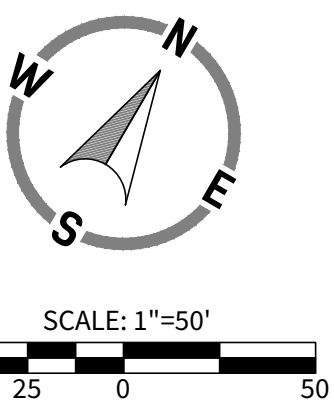
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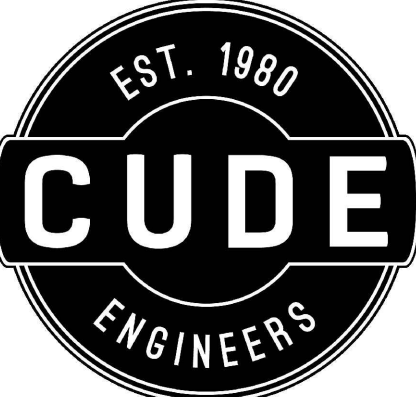
HORIZONTAL SCALE: 1" = 50'
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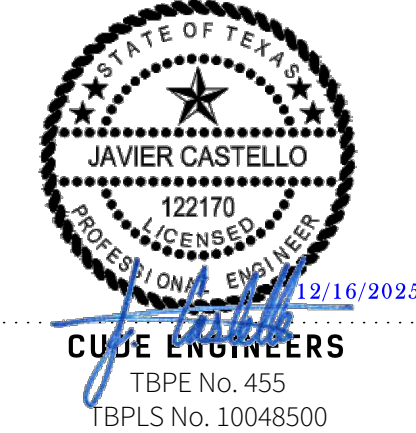
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San Antonio, Texas 78231
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STETSON RIDGE
UNIT 2

SANITARY SEWER PLAN & PROFILE - LINE F

DATE	12/16/2025
PROJECT NO.	04127.005
DRAWN BY	CG/JG/LJ/TCD
CHECKED BY	XV/JC

REVISIONS	
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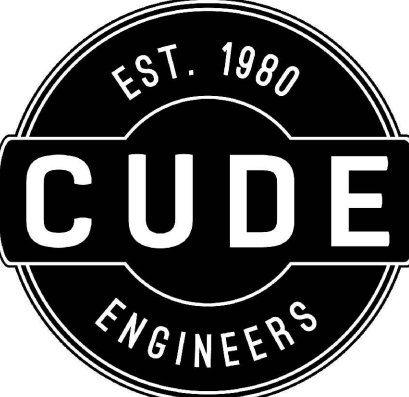
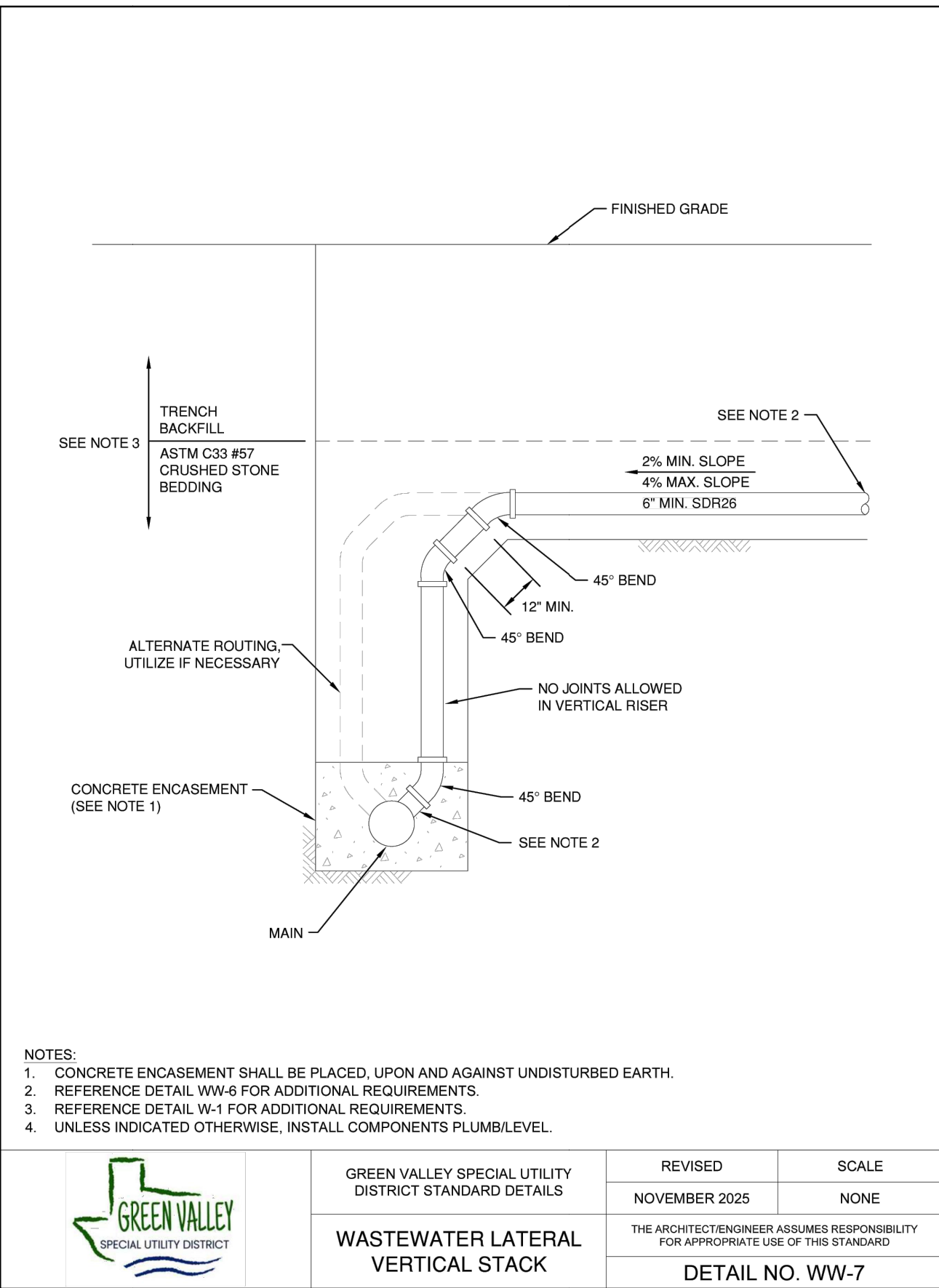
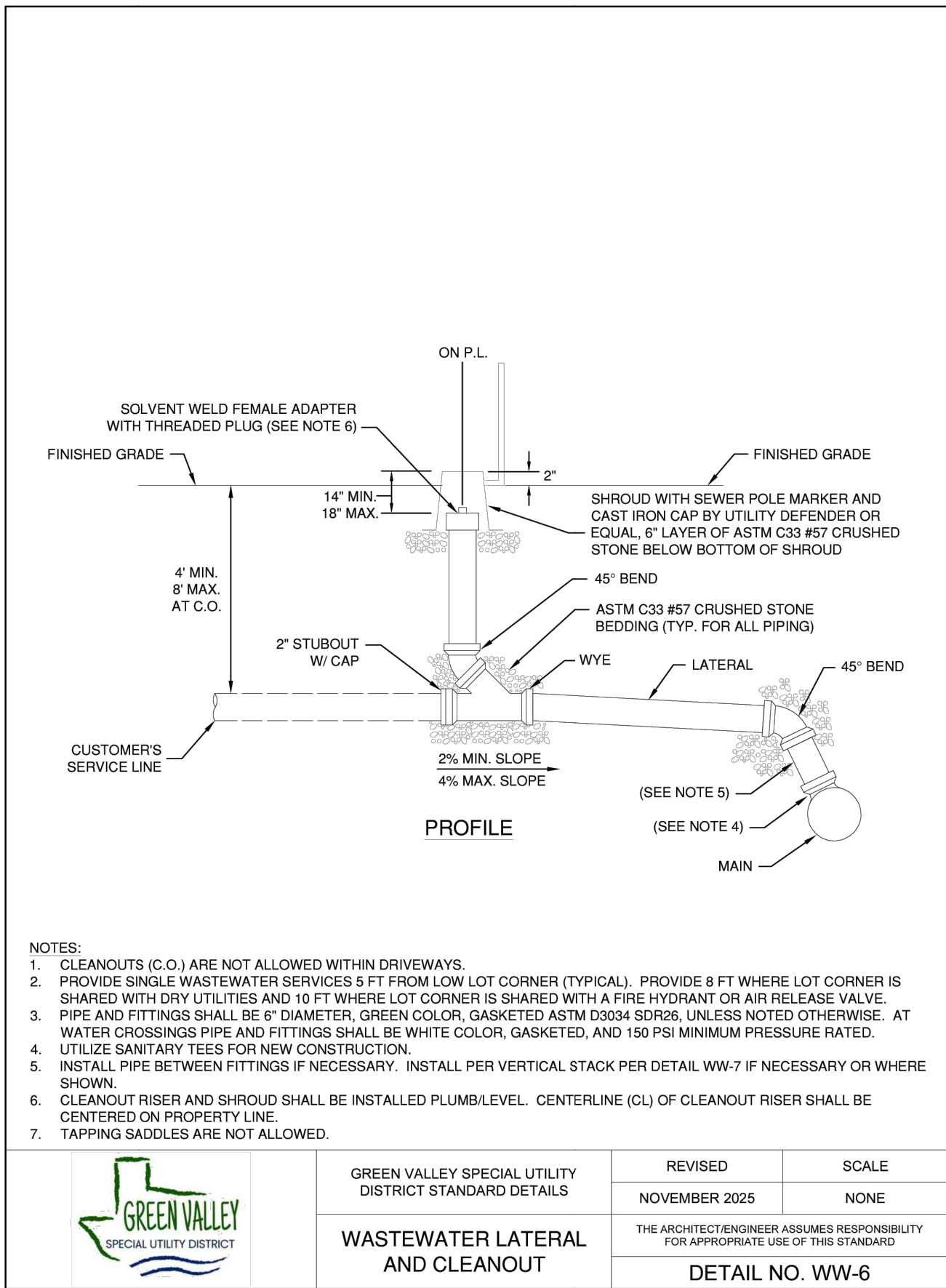
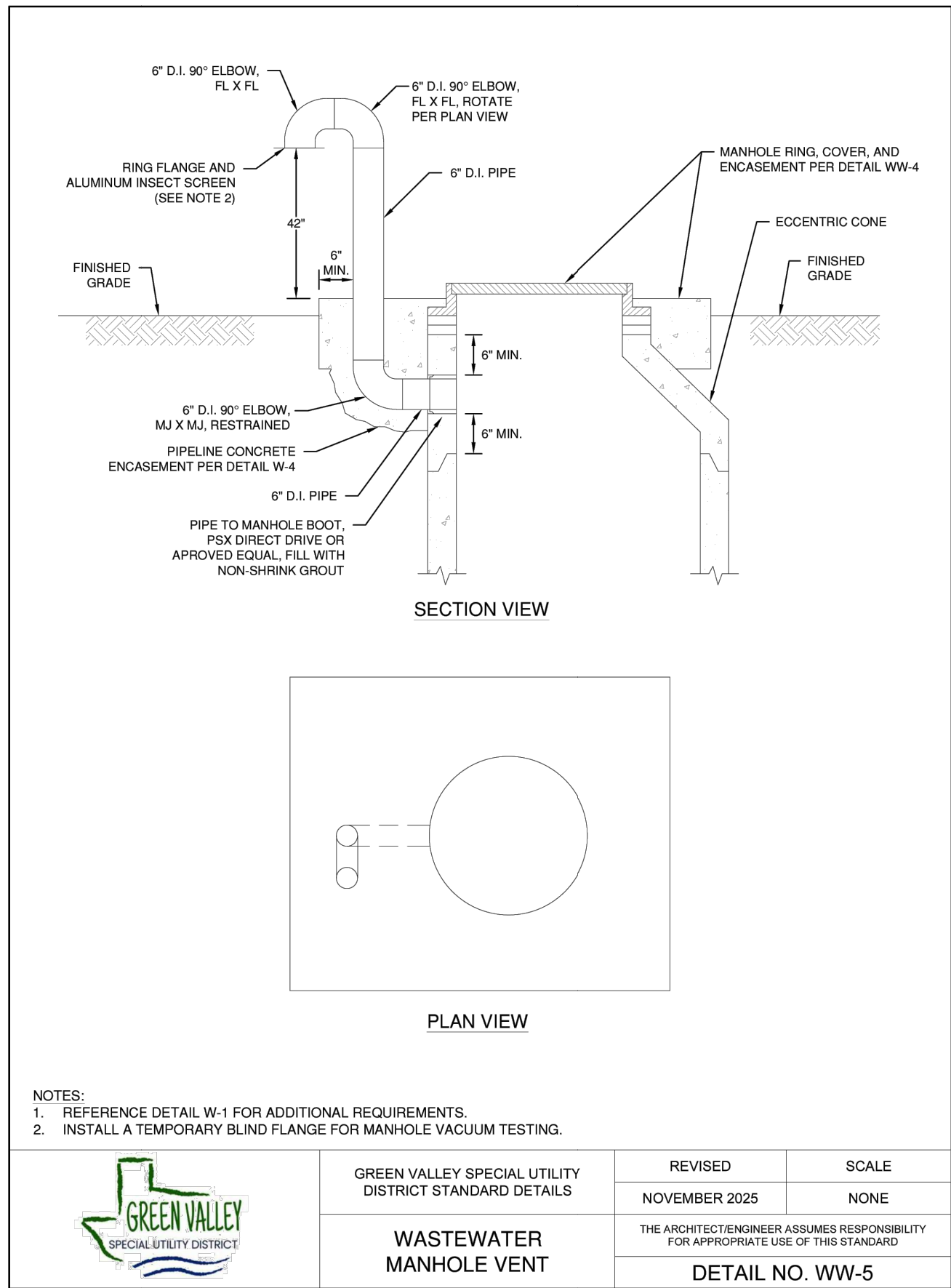
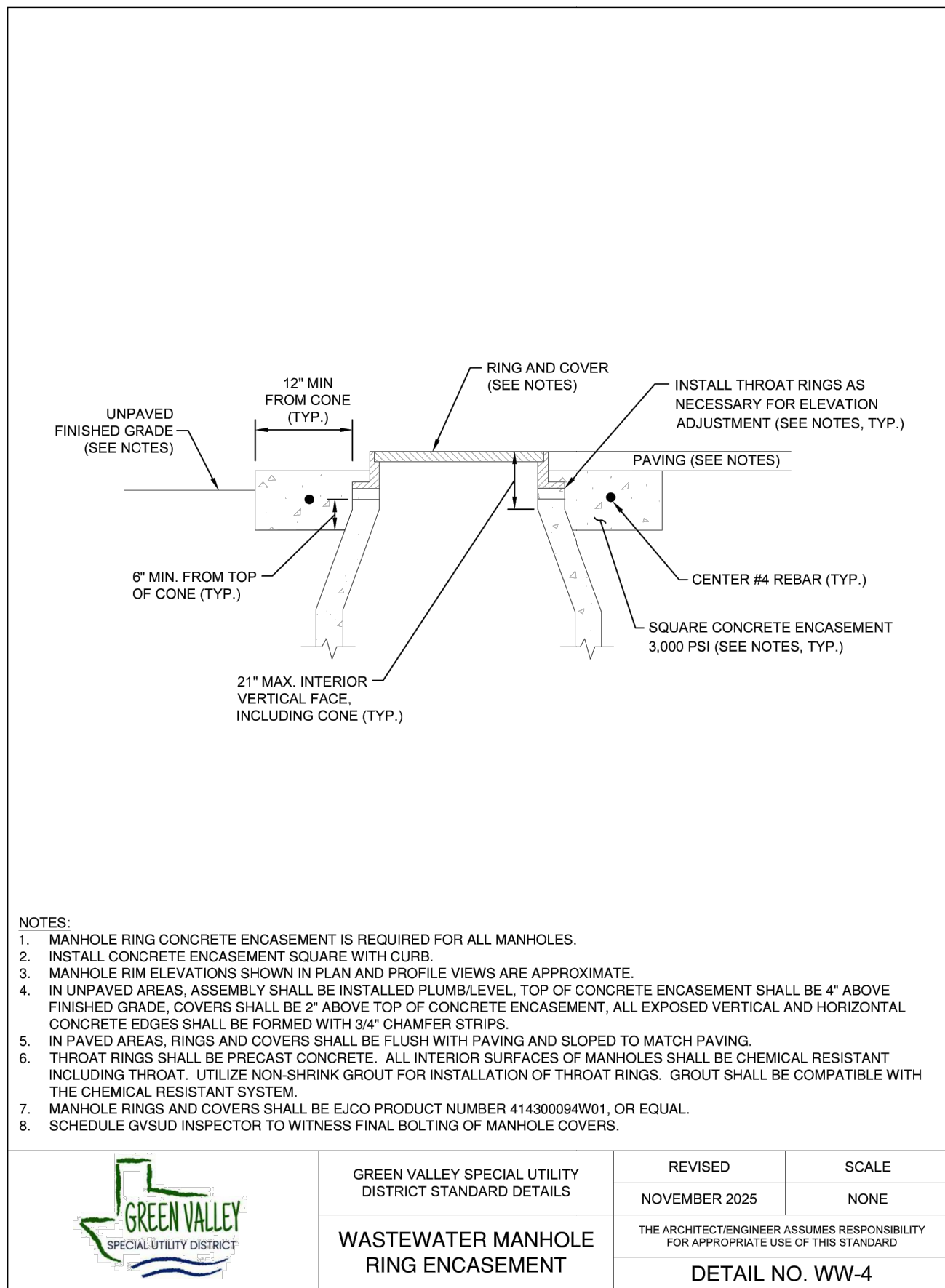
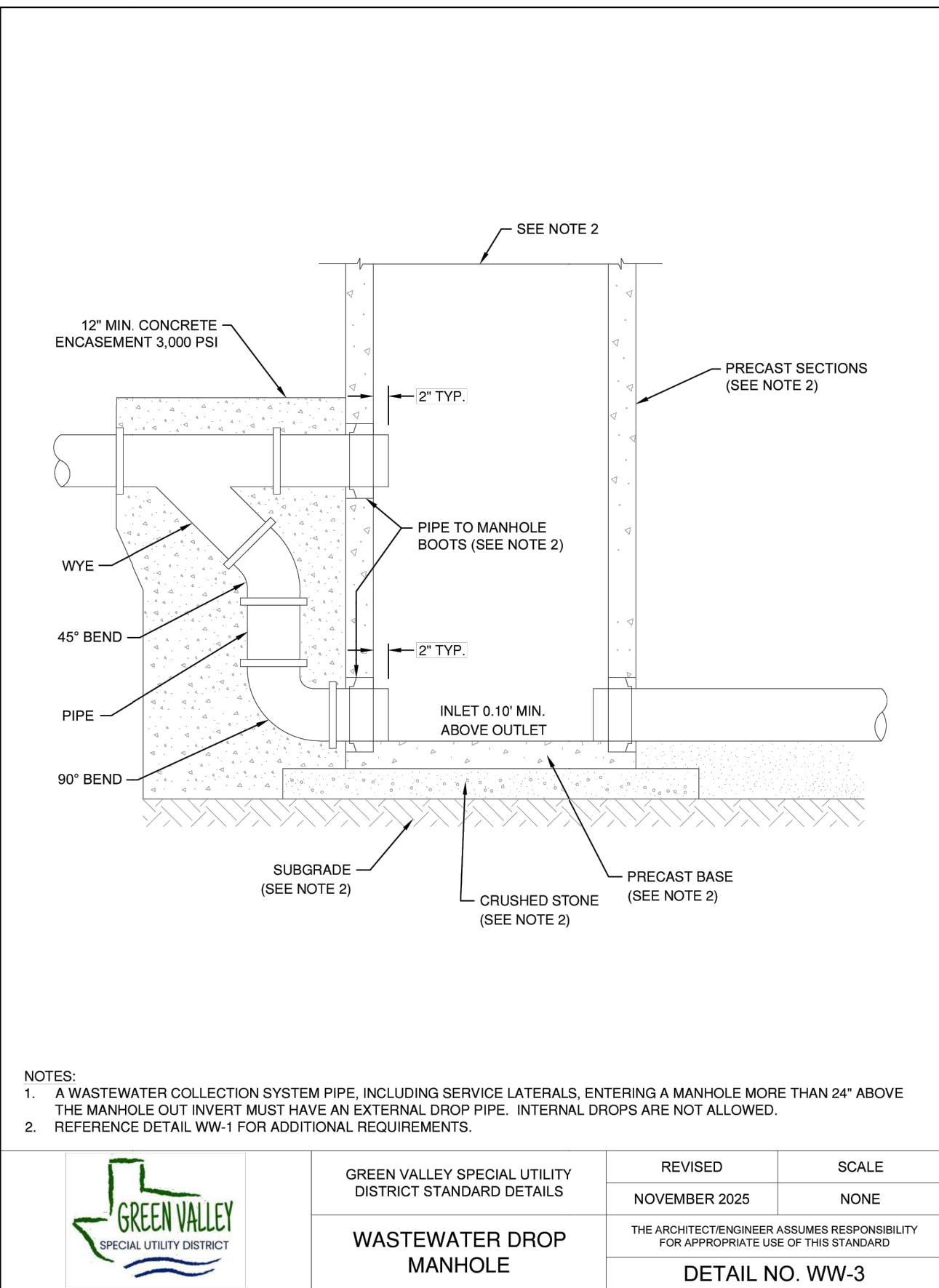
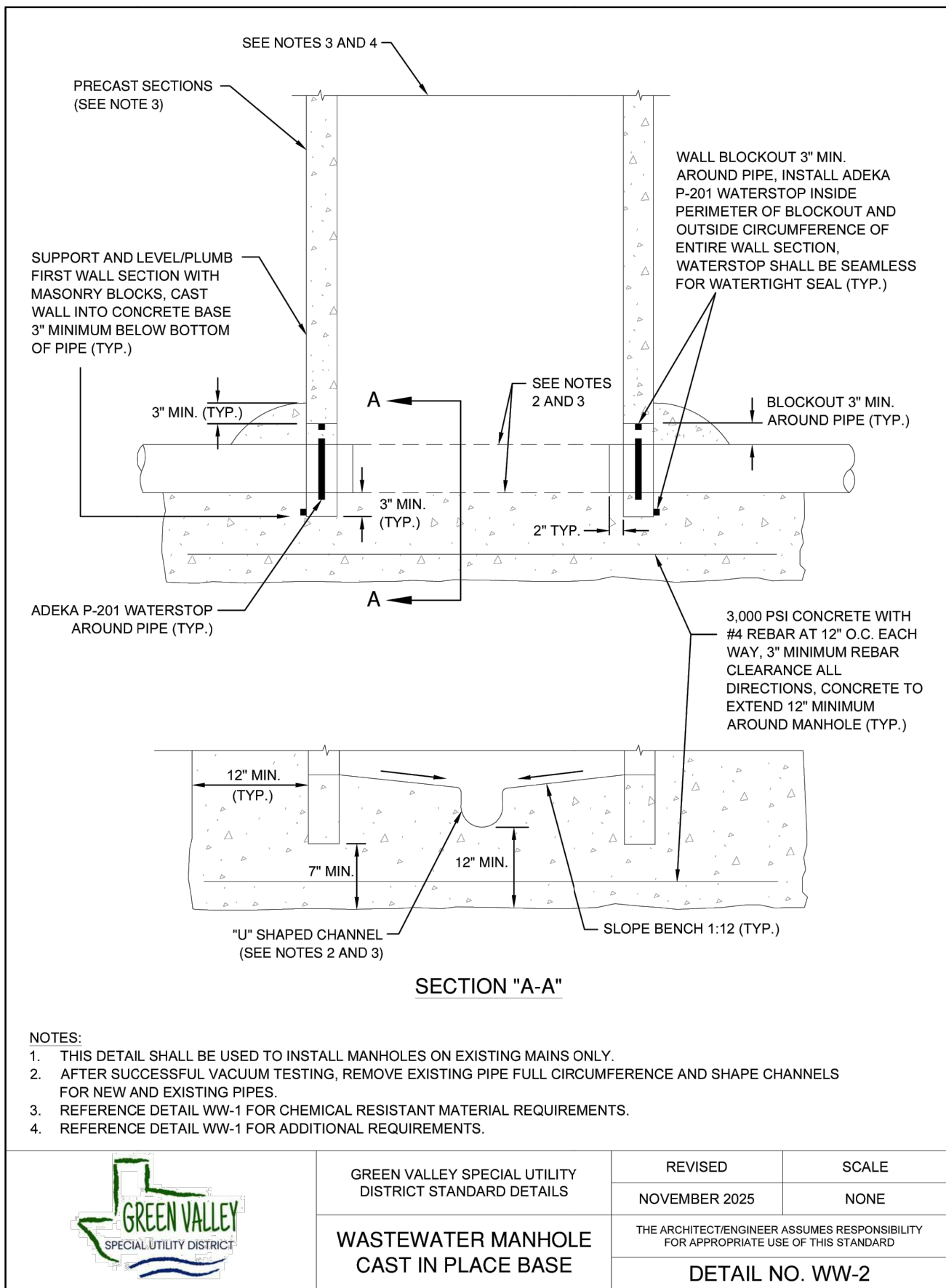
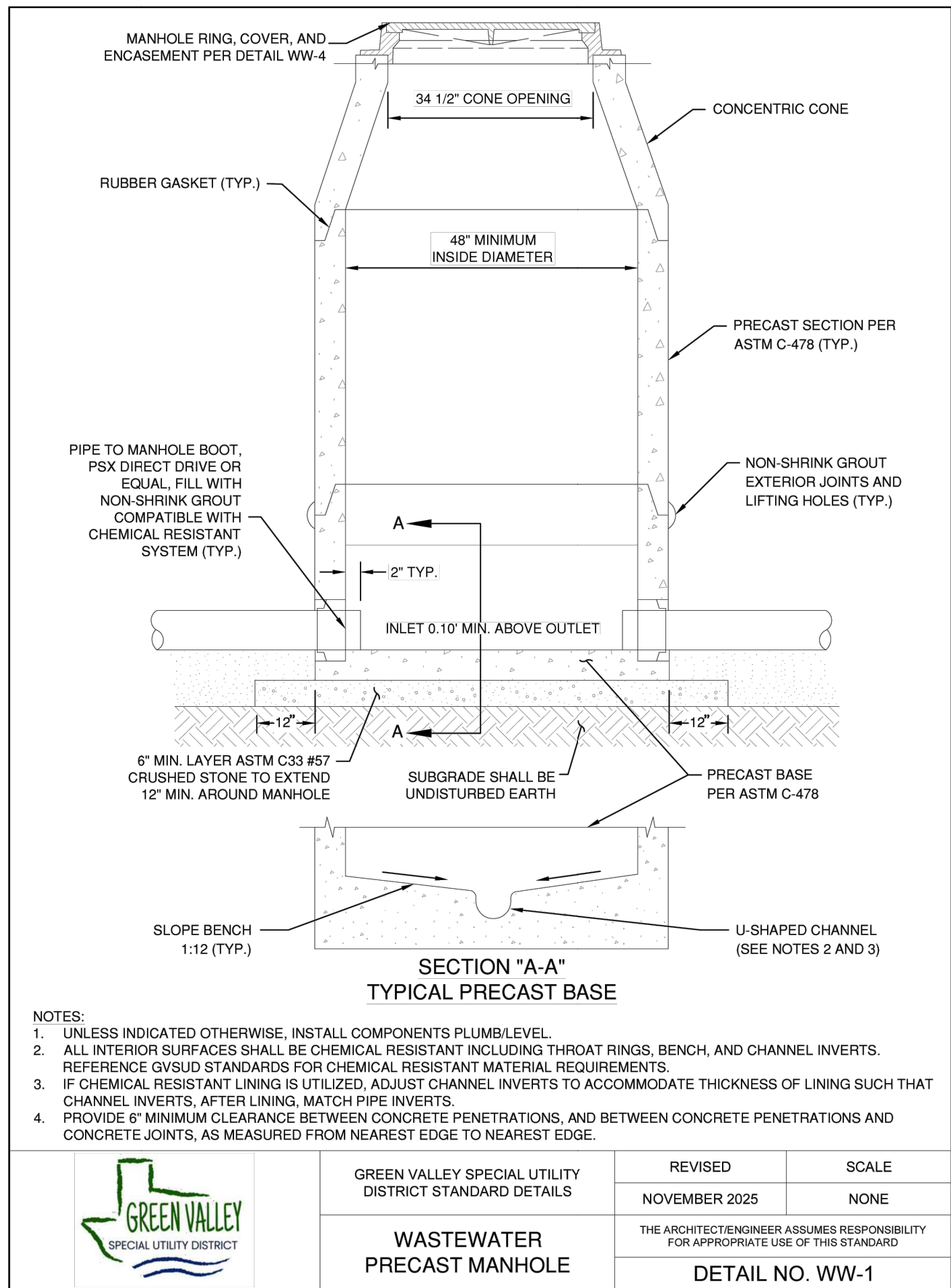


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STETSON RIDGE
UNIT 2
SANITARY SEWER DETAILS

DATE

12/16/2025

PROJECT NO.

04127.005

DRAWN BY

CG/JG/LJ/TC

CHECKED BY

XV/JC

REVISIONS

DATE

1. 2025-12-16

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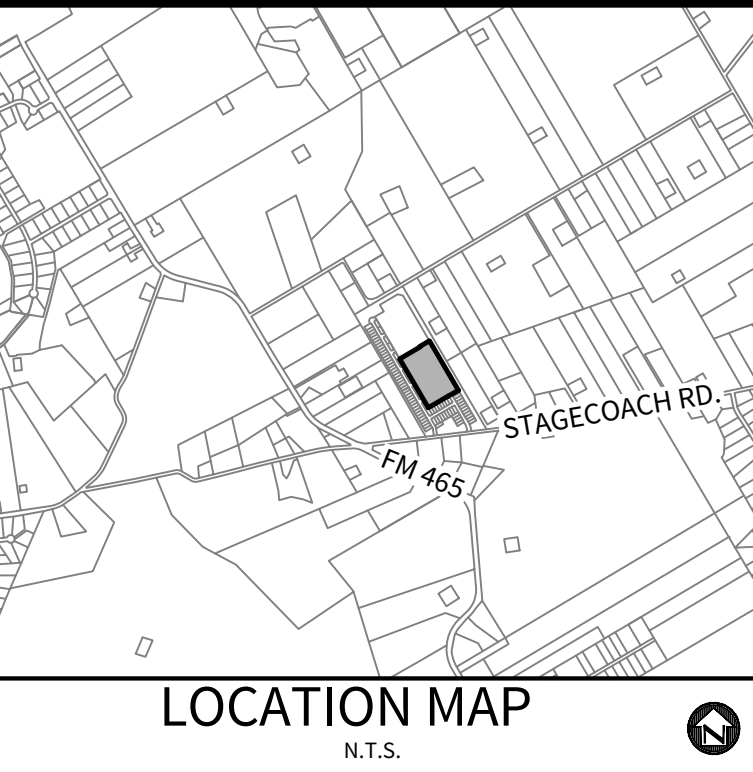
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OWNER/DEVELOPER:
MERITAGE HOMES OF TEXAS, L.L.C.
CONTACT PERSON: TONDA ALEXANDER
2722 WEST BITTERS ROAD, SUITE 200
SAN ANTONIO, TX 78248
TEL: (210) 681-2951
FAX: (210) 298-4294

CIVIL ENGINEER:
M.W. CUDE ENGINEERS, L.L.C.
CONTACT PERSON: XAVIER VASQUEZ
4122 POND HILL ROAD, SUITE 101
SAN ANTONIO, TX 78231
TEL: (210) 681-2951
FAX: (210) 523-7112

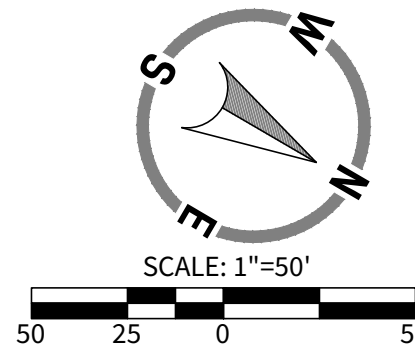
- NOTES:**
1. MOISTURE DENSITY COMPACTION TESTING FREQUENCY- WATER MAIN TRENCHES REQUIRED EVERY 300 LF FOR EACH VERTICAL FOOT OF COMPACTED BACKFILL. SERVICES RANDOMLY SELECTED AS REQUIRED BY GVSUD INSPECTOR.
 2. ALL DUCTILE IRON PIPE TO BE AMERICAN, ZINC COATED, ANW/ANSI C-151.
 3. FIRE HYDRANTS SHALL BE MUELLER OR EJ TYPE AND SHALL BE 1" MINIMUM AND 7" MAXIMUM FROM THE BACK OF CURB.
 4. DISINFECTION SHALL BE BY MACHINE CHLORINATION.
 5. ALL TESTING AND TEST REPORTS SHALL BE COORDINATED WITH GVSUD INSPECTOR BY CONTRACTOR.
 6. CONTRACTOR TO UTILIZE APPROVED WATER LINE STOPS AND/OR MUELLER INSERTION-VALVES TO MINIMIZE WATER OUTAGES AS REQUIRED BY GVSUD DURING CONSTRUCTION.
 7. CONTRACTOR TO INSTALL 24" C-909 CASING AROUND THE WATER MAIN WHEN UNDER PAVEMENT AT ALL PAVEMENT CROSSINGS. SEE GVSUD DETAIL W-8 SHEET C24
 8. ALL STREET CROSSINGS TO BE Cased FROM EDGE OF IMPERMEABLE COVER TO EDGE OF IMPERMEABLE COVER.
 9. ALL METERS TO SIT IN EASEMENT SEE GVSUD DETAIL W-22 SHEET C26
 10. NO PRESSURIZED FITTING TO LIE BENEATH IMPERMEABLE COVER.

STETSON RIDGE UNIT 2 - WATER DISTRIBUTION ESTIMATED QUANTITY TAKE-OFF (CONTRACTOR RESPONSIBLE FOR DETERMINING ACTUAL QUANTITIES REQUIRED)			
Item No.	Description	Quantity	Units
1	8" PVC C-909 PC 235	2,084	LF
2	8" GATE VALVES	20	EA
3	FIRE HYDRANTS	5	EA
4	PIPE FITTINGS, ALL SIZES AND TYPES	1.65	TON
5	2" BLOWOFF, PERMANENT	1	EA
6	1" SINGLE LONG SERVICE (5/8" METER)	24	EA
7	1" SINGLE SHORT SERVICE (5/8" METER)	42	EA

STETSON RIDGE UNIT 2 - WATER DISTRIBUTION ESTIMATED QUANTITY TAKE-OFF (CONTRACTOR RESPONSIBLE FOR DETERMINING ACTUAL QUANTITIES REQUIRED)			
Item No.	Description	Quantity	Units
8	TRENCH EXCAVATION SAFETY PROTECTION	2,084	LF
9	HYDROSTATIC TESTING	1	EA
10	METER BOX (NON-STANDARD METER BOX)	66	EA
11	TIE INTO EXISTING WATER MAIN	4	EA
12	24" STEEL CASING	60	LF
13	24" C-909 CASING	150	LF

TOTAL AVERAGE	10.72
TOTAL EDU'S	66
TOTAL NUMBER OF LOTS	66

SEWER/WATER LINE CROSSINGS	
LINE	STATION
EX. "B"	14+55.52
EX. "B"	17+45.52
EX. "B"	20+35.52



LEGEND

- OVERALL UNIT BOUNDARY ---
- PROPOSED LOT LINE ---
- PROPOSED RIGHT OF WAY ---
- E.G.T.C.A. EASEMENT ---
- EXISTING 2' CONTOUR ---
- EXISTING 10' CONTOUR ---
- EXISTING WATER LINE ---
- EXISTING SEWER LINE ---
- EXISTING MANHOLE ---
- PROPOSED WATER LINE ---
- PROPOSED WATER SERVICE ---
- PROPOSED FIRE HYDRANT ---
- PROPOSED SEWER MAIN ---
- PROPOSED SEWER FORCE MAIN ---
- PROPOSED MANHOLE ---
- PROPOSED SEWER SERVICE ---
- PROPOSED STREET LIGHT ---
- PROPOSED JOINT RESTRAINT ---
- JOINT RESTRAINT ENTIRE LENGTH ---

CONTRACTOR SHALL VERIFY THE EXACT LOCATION OF UNDERGROUND UTILITIES AND OTHER UNDERGROUND STRUCTURES WHETHER SHOWN ON THE PLANS OR NOT. CONTRACTOR WILL NOTIFY ALL UTILITY COMPANIES AT LEAST 72 HOURS PRIOR TO EXCAVATION.

CITY OF MARION (830) 914-2391
GVSUD (830) 914-2320
GVIC (830) 885-4411
GVCC 1-800-401-8345
DIG TESS 1-800-344-8377
TEXAS STATE WIDE ONE CALL LOCATORS 1-800-545-6005 OR 811

NOTE:

THE CONTRACTOR SHALL BE RESPONSIBLE FOR MEETING 98% COMPACTION ON ALL TRENCH BACKFILL AND PAYING FOR THE TESTS TO BE PERFORMED BY A THIRD PARTY. COMPACTION TEST WILL BE DONE AT ONE LOCATION POINT RANDOMLY SELECTED OR AS INDICATED BY THE GVSUD INSPECTOR/TEST ADMINISTER, PER EACH 12-INCH LOOSE LIFT PER 40 LINEAR FEET AT A MINIMUM. THIS PROJECT WILL NOT BE ACCEPTED AND FINALIZED BY GVSUD WITHOUT THIS REQUIREMENT BEING MET AND VERIFIED BY PROVIDING ALL NECESSARY DOCUMENTED TEST RESULTS.

TRENCH EXCAVATION PROTECTION

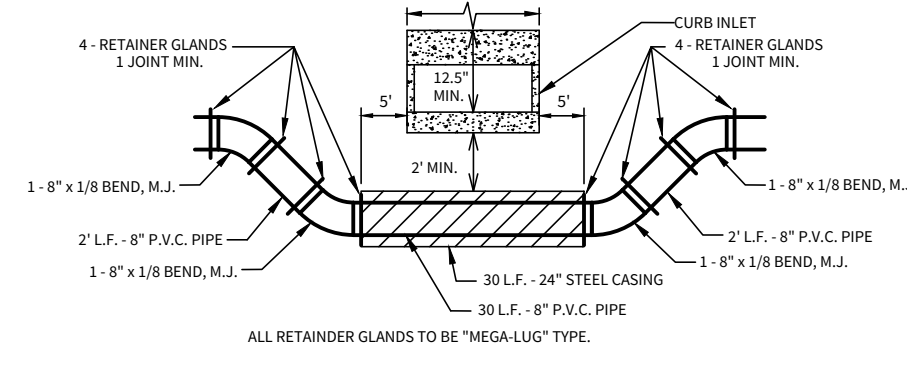
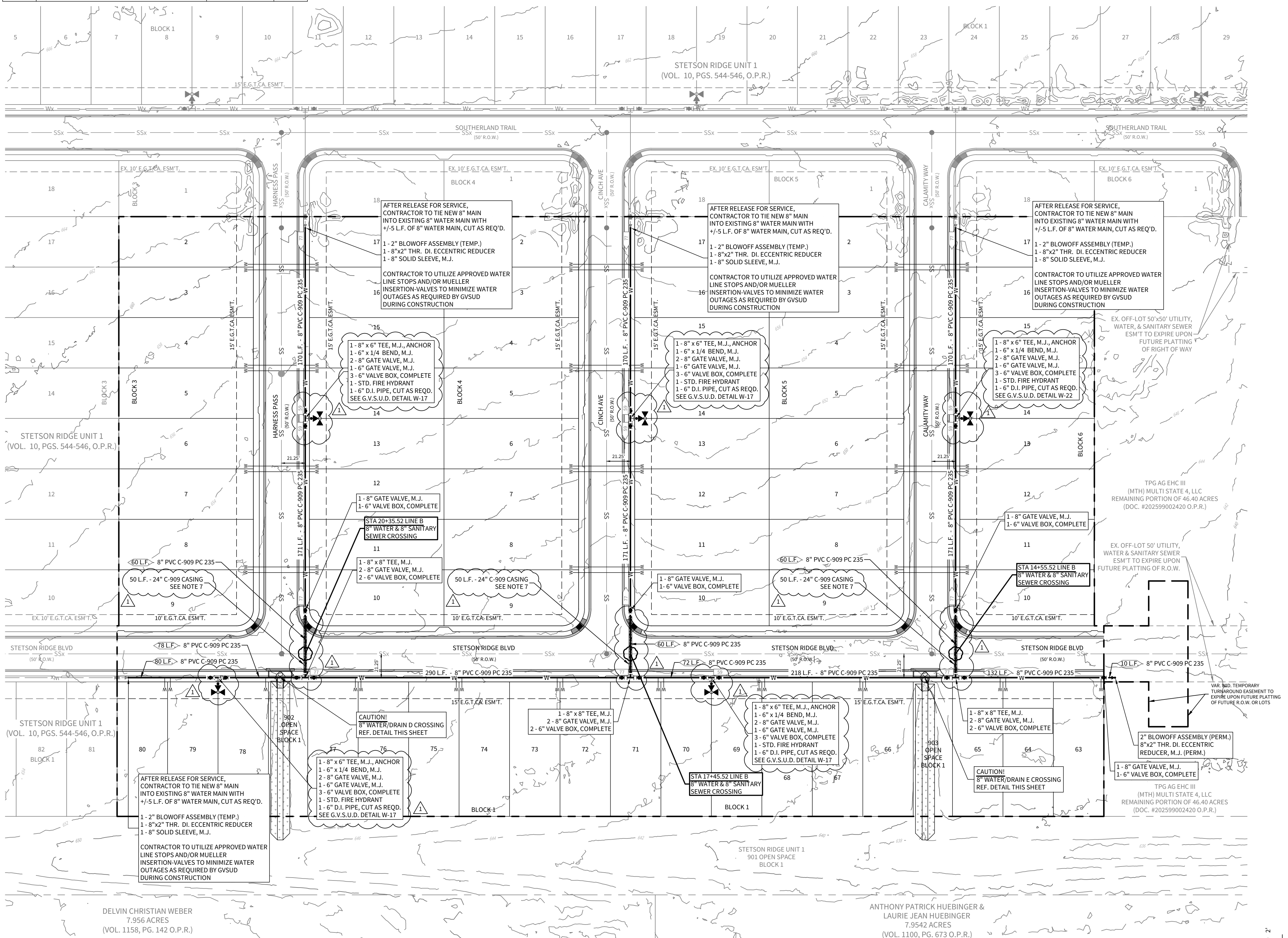
CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR STRUCTURAL DESIGN/GEOTECHNICAL/SAFETY/EQUIPMENT CONSULTANT, IF ANY, SHALL REVIEW THESE PLANS AND AVAILABLE GEOTECHNICAL INFORMATION AND THE ANTICIPATED INSTALLATION SITES) WITHIN THE PROJECT WORK AREA IN ORDER TO IMPLEMENT CONTRACTOR'S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

CAUTION!!

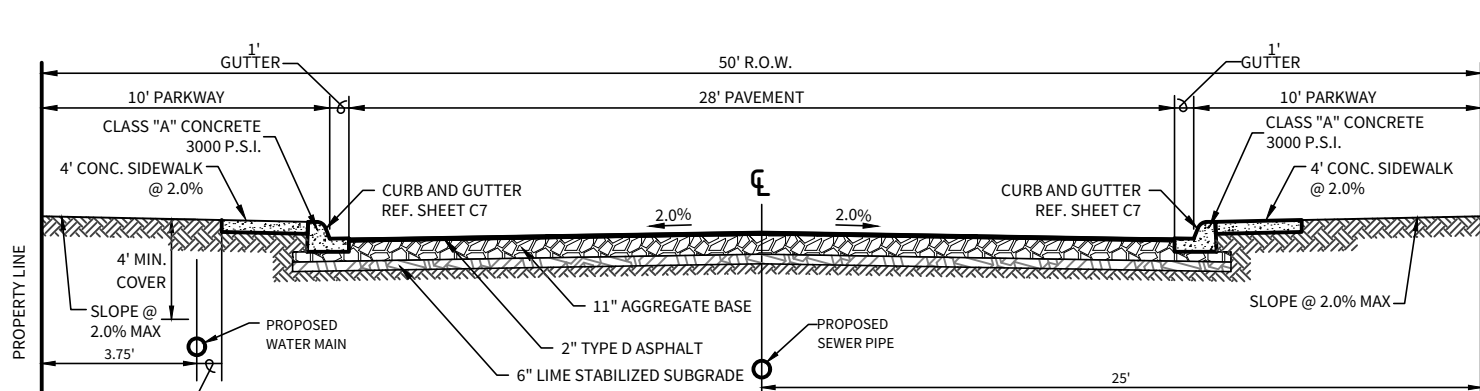
EXISTING UTILITIES ARE WITHIN THE LIMITS OF CONSTRUCTION. CONTRACTORS SHALL EXERCISE EXTRA CARE IN DIGGING ANY TRENCH FOR PROPOSED UTILITIES. THE CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE, VERIFY THE EXACT LOCATION & IDENTIFY AREA OF CONFLICTS WITH EXISTING UTILITIES AND SHALL NOTIFY THE ENGINEER IF CONFLICT IS FOUND.

CAUTION!!

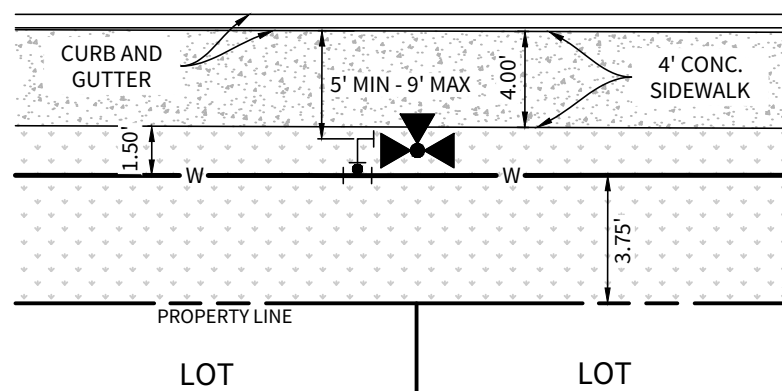
THE CONTRACTOR SHALL BE AWARE THAT OVERHEAD ELECTRIC LINES EXIST WITHIN THE VICINITY OF THE SITE. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO HAVE THESE UTILITIES LOCATED PRIOR TO COMMENCING CONSTRUCTION. THE CONTRACTOR SHALL USE EXTREME CAUTION WHEN WORKING IN THIS AREA. ANY DAMAGE DONE TO THESE EXISTING FACILITIES WILL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO REPAIR.



WATER / DRAIN D & E CROSSING DETAIL
SIDE VIEW (THIS DETAIL IS VERTICAL ONLY, NOT HORIZONTAL) [N.T.S.]

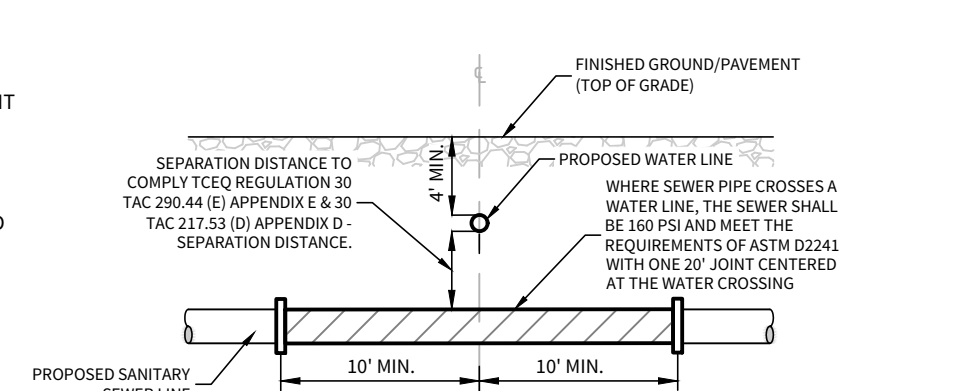


LOCAL 'A' STREET CROSS-SECTION (50' R.O.W.)
N.T.S.

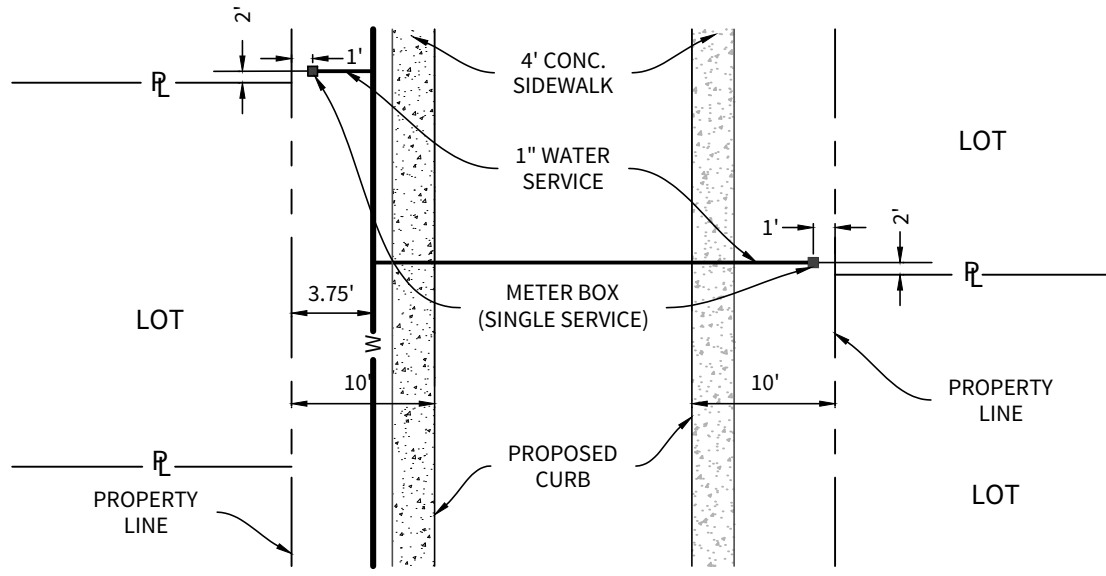


LOCAL RESIDENTIAL FIRE HYDRANT DETAIL (4' SIDEWALK)
N.T.S.

- NOTE:**
1. EXCLUSIVE OF THE TEE, PAYMENT FOR THE FIRE HYDRANT SHALL INCLUDE ALL FITTINGS, 6\"/>
 2. FIRE HYDRANT TO BE INSTALLED OUTSIDE OF THE LIMITS OF ALL PROPOSED SIDEWALKS.



TYPICAL SANITARY SEWER/ WATER CROSSING DETAIL
N.T.S.



WATER METER BOX LOCATION (50' R.O.W.)
N.T.S.

**STETSON RIDGE
UNIT 2**

ONSITE WATER DISTRIBUTION PLAN

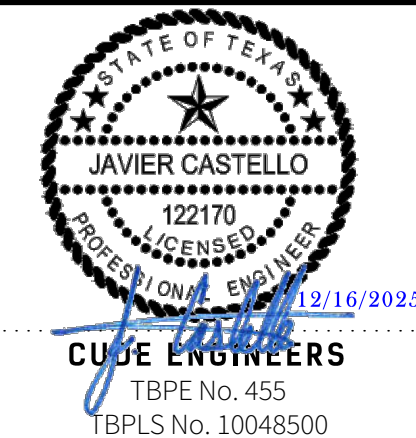
DATE
12/16/2025

PROJECT NO.
04127.005

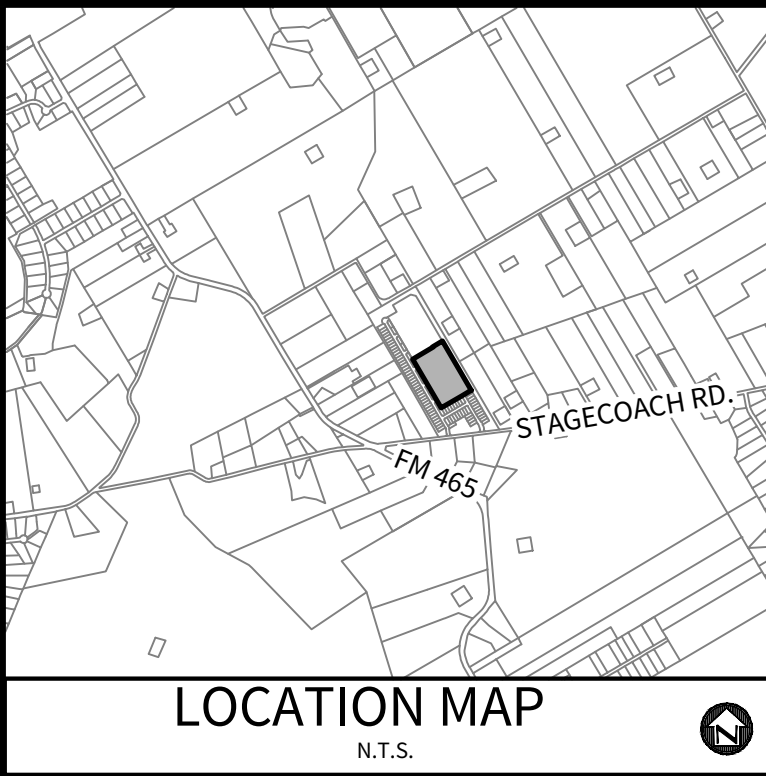
DRAWN BY
CG/JG/LJ/TC

CHECKED BY
XV/JC

REVISIONS	
DATE	
2025-12-16	04127.005 COMMENTS 12
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STETSON RIDGE UNIT 2 - OFF SITE WATER DISTRIBUTION ESTIMATED QUANTITY TAKE-OFF (CONTRACTOR RESPONSIBLE FOR DETERMINING ACTUAL QUANTITIES REQUIRED)

Item No.	Description	Quantity	Units
1	16" PVC C-909 PC 235	1,098	LF
2	16" GATE VALVES	4	EA
3	8" GATE VALVES	1	EA
4	PIPE FITTINGS, ALL SIZES AND TYPES	1.61	TON
5	16" x 8" TEE CUT IN	1	EA
6	TRENCH EXCAVATION SAFETY PROTECTION	1,098	LF
7	HYDROSTATIC TESTING	1	EA
8	TIE INTO EXISTING WATER MAIN	2	EA
9	JACK, BORE AND TUNNEL, COMPLETE WITH 30" STEEL CASING	57	LF

TOTAL AGERAGE	10.72
TOTAL EDUS	66
TOTAL NUMBER OF LOTS	66

- NOTES:
1. MOISTURE DENSITY COMPACTION TESTING FREQUENCY- WATER MAIN TRENCHES REQUIRED EVERY 300 LF FOR EACH VERTICAL FOOT OF COMPACTED BACKFILL. SERVICES RANDOMLY SELECTED AS REQUIRED BY GVSUD INSPECTOR.
 2. ALL DUCTILE IRON PIPE TO BE AMERICAN, ZINC COATED, AWWA/ANSI C-151.
 3. FIRE HYDRANTS SHALL BE MUELLER OR EJ TYPE AND SHALL BE 1' MINIMUM AND 7' MAXIMUM FROM THE BACK OF CURB.
 4. DISINFECTION SHALL BE BY MACHINE CHLORINATION.
 5. ALL TESTING AND TEST REPORTS SHALL BE COORDINATED WITH GVSUD INSPECTOR BY CONTRACTOR.
 6. CONTRACTOR TO UTILIZE APPROVED WATER LINE STOPS AND/OR MUELLER INSERTION-VALVES TO MINIMIZE WATER OUTAGES AS REQUIRED BY GVSUD DURING CONSTRUCTION.
 7. CONTRACTOR IS RESPONSIBLE TO COORDINATE ACCESS TO GVSUD PROPERTY AND COORDINATE TIE IN TO THE EXISTING WATER TOWER.
 8. ALL PERMITS MUST BE OBTAINED FROM GUADALUPE COUNTY BEFORE STARTING ANY WORK WITHIN THE GUADALUPE COUNTY R.O.W.

TRENCH EXCAVATION PROTECTION

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

CAUTION!!

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CAUTION!!

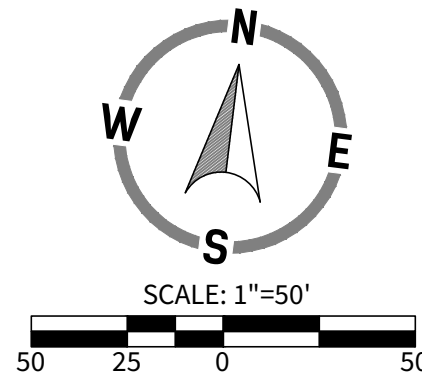
THE CONTRACTOR SHALL BE AWARE THAT OVERHEAD ELECTRIC LINES EXIST WITHIN THE VICINITY OF THE SITE. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO HAVE THESE UTILITIES LOCATED PRIOR TO COMMENCING CONSTRUCTION. THE CONTRACTOR SHALL USE EXTREME CAUTION WHEN WORKING IN THIS AREA. ANY DAMAGE DONE TO THESE EXISTING FACILITIES WILL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO REPAIR.

CITY OF MARION
GVSUD
GVTC
GVEC
DIG TESS
TEXAS STATE WIDE ONE CALL LOCATORS

(830) 914-2391
(830) 914-2330
(830) 685-4411
1-800-401-8345
1-800-344-8377
1-800-545-6005 OR 811

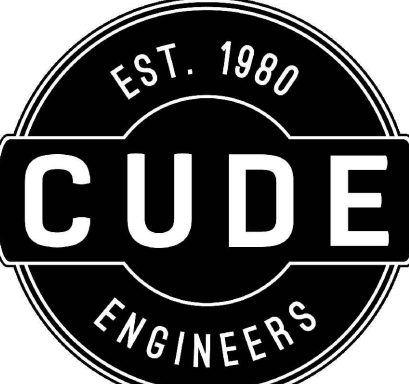
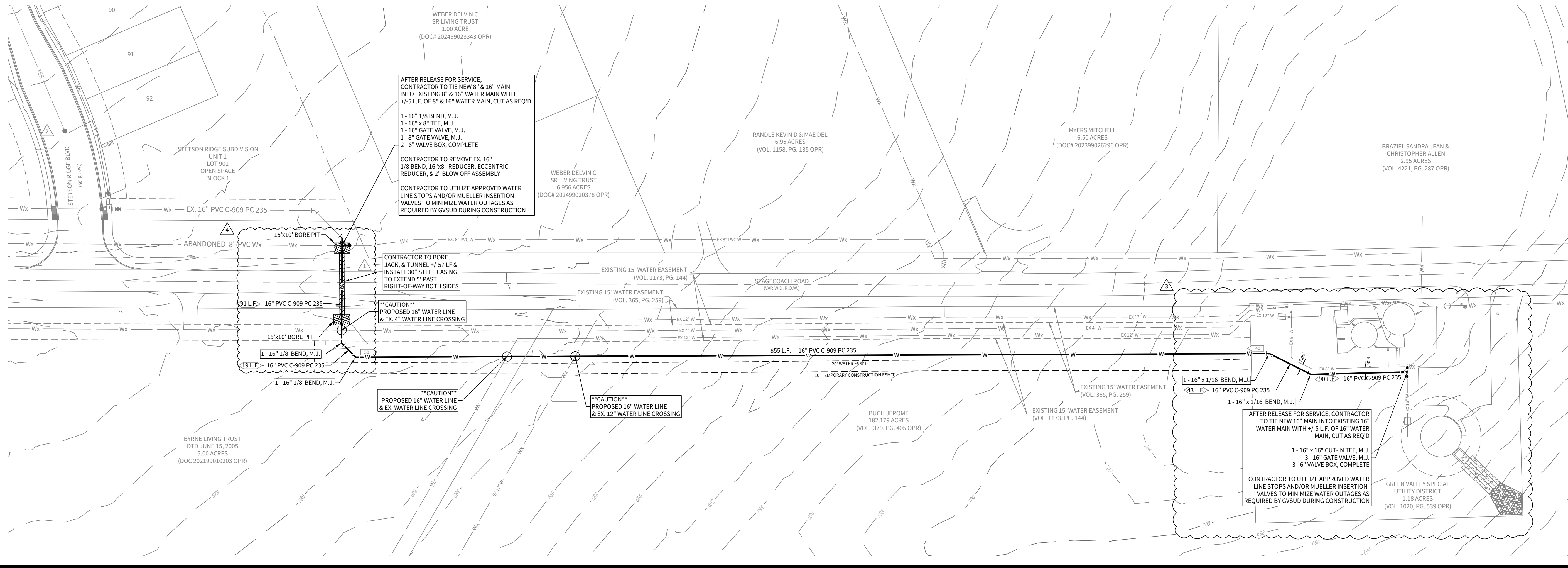
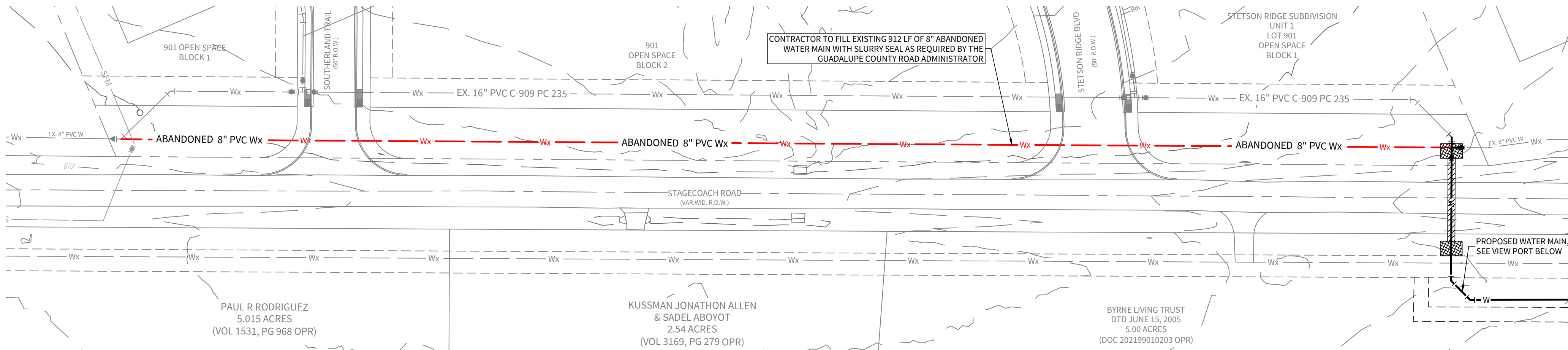
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LEGEND

- EXISTING UNIT BOUNDARY
- EXISTING LOT LINE
- EXISTING RIGHT OF WAY
- EXISTING EASEMENT
- EXISTING 2' CONTOUR
- EXISTING 10' CONTOUR
- EXISTING WATER LINE
- PROPOSED WATER LINE
- EXISTING FIRE HYDRANT
- PROPOSED JOINT RESTRAINT
- JOINT RESTRAINT ENTIRE LENGTH
- EXISTING 1/8 (45°) BEND
- EXISTING TEE
- EXISTING GATE VALVE
- PROPOSED 1/8 (45°) BEND
- PROPOSED TEE
- PROPOSED GATE VALVE



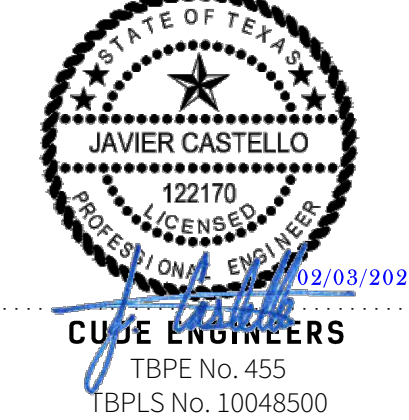
4122 Pond Hill Road, Suite 101
San Antonio, Texas 78231
P:(210) 681.2951 F:(210) 523.7112

STETSON RIDGE UNIT 2

OFFSITE WATER DISTRIBUTION PLAN

DATE
02/05/2026
PROJECT NO.
04127.005
DRAWN BY
CG/JG/LJ/TC
CHECKED BY
XV/JC

DATE	REVISIONS
1. 2025-12-16	1. REVISIONS
2. 2025-12-04	2. CORRECTIONS
3. 2025-01-13	3. CORRECTIONS
4. 2025-02-03	4. CORRECTIONS
5. 2025-02-03	5. CORRECTIONS
6. 2025-02-03	6. CORRECTIONS
7. 2025-02-03	7. CORRECTIONS
8. 2025-02-03	8. CORRECTIONS
9. 2025-02-03	9. CORRECTIONS



CUDE ENGINEERS
TBPE No. 455
TBPLS No. 10048500

GREEN VALLEY SPECIAL UTILITY DISTRICT
WATER SYSTEM GENERAL NOTES

- PVC MAINS 12-INCHES AND BELOW SHALL CONFORM TO AWWA C-909 PRESSURE CLASS 235 OR ABOVE. PVC MAIN GREATER THAN 12-INCHES SHALL CONFORM TO AWWA C-900 DR 18 OR ABOVE. WATER MAINS SHALL HAVE AN ABSOLUTE MINIMUM DEPTH OF 48-INCHES IN ALL AREAS.
- ALL WATER PIPE SHALL BE INSTALLED MINIMUM 4-FEET BEYOND BACK OF CURB.
- ALL WATER MAINS TO BE INSTALLED 4-FEET MINIMUM BEHIND BACK OF CURB.
- NO PRESSURIZED FITTINGS UNDER ROADWAYS, PAVEMENT, OR SIDEWALKS.
- ALL WATER MAIN DUCTILE IRON FITTINGS SHALL BE MECHANICAL JOINT AND CONFORM TO ANSI/AWWA C-153 OR C-110. ALL BOLTS SHALL HAVE COPPER ANTI-SEIZE CORROSION RESISTANT COATING. VALVES SHALL BE ATTACHED TO TEES BY FOSTER ADAPTOR OR ANCHOR NIPPLE. FOSTER ADAPTER, ANCHOR NIPPLE, OR FORD UNI-FLANGE RETAINER GLANDS AND THRUST BLOCKS SHALL BE USED ON ALL FITTINGS AND VALVES.
- TRACER WIRE SHALL BE INSTALLED ON ALL PIPELINES INCLUDING SERVICE LINES AND BROUGHT INTO VALVE AND METER BOXES FOR LOCATING PURPOSES. INSULATED WATER PROOF CONNECTORS SHALL BE USED TO SPLICE WIRES TOGETHER. A 6-INCH OR 12-INCH-WIDE DETECTABLE METAL TAPE SHALL BE PLACED ABOVE BEDDING INITIAL BACKFILL.
- OVER INSERTING BELL JOINTS AND PASSING THE INSERTION REFERENCE MARK IS PROHIBITED AND WILL REQUIRE REMOVAL AND REINSTALLATION.
- STANDARD FIRE HYDRANT SHALL INCLUDE HYDRANT, 6-INCH RESILIENT WEDGE GATE VALVE AND BOX, ANCHOR FITTINGS, DUCTILE IRON PIPE, AND ALL APPURTENANCES. HYDRANTS SHALL BE LIMITED TO THOSE MANUFACTURED BY MUELLER, AVK, AMERICAN FLOW, CLOW, OR EAST JORDAN. ONLY MUELLER HYDRANTS AND EJ SHALL BE USED IN CITY OF CIBOLA JURISDICTION. HYDRANT UPPER BARREL SHALL BE FACTORY PAINTED RED. HYDRANTS SHALL HAVE A STORTZ CONNECTION ON STEAMER NOZZLE. FITTINGS FOR PLUG SHALL BE FULLY RESTRAINED AND TIED TO VALVE.
- ALL FIRE HYDRANT ASSEMBLIES SHALL HAVE AN IN-LINE UPSTREAM AND DOWNSTREAM VALVE.
- ALL TEES SHALL INCLUDE THREE (3) VALVES.
- VALVES SHALL BE AWWA APPROVED RESILIENT WEDGE SEATED GATE VALVE, OPEN LEFT, AND LIMITED TO THOSE MANUFACTURED BY MUELLER, AVK, AMERICAN FLOW, CLOW, OR EAST JORDAN.
- VALVES ARE PROHIBITED IN ADA RAMPS, CURBS, AND ROADWAYS. VALVES ARE PROHIBITED IN SIDEWALKS IN CITY OF NEW BRAUNFELS.
- METER BOXES ARE PROHIBITED IN ANY SIDEWALKS, DRIVEWAYS, OR ROADWAYS.
- SMALL SERVICE TAPS SHALL BE 1-INCH REHAU MUNICOMPLEX W/ CTS 200 PSI PLASTIC INSERT OR 2-INCH YELOMINE PVC ASTM D1784 WITH HARCO FITTINGS OR APPROVED EQUIVALENT. SMALL SERVICE TAPS TO BE MADE WITH SINGLE BRASS STRAP TAPPING SADDLE OR DUAL BANDED STAINLESS-STEEL FLAT-STRAP EPOXY SADDLE WITH IRON PIPE THREADS.
- CASING REQUIRED FOR ALL LONG SMALL SERVICES. 1-INCH SERVICE REQUIRES 3-INCH CASING AND 2-INCH SERVICE REQUIRES 4-INCH CASING. CASING SHALL BE WHITE COLOR PVC SCHEDULE 40 OR APPROVED EQUAL.
- 5/8" & 3/4" METER BOXES SHALL BE DFW36C 16" X 11". ALL METER BOXES SHALL BE PLASTIC WITH LIDS AND KNOCKOUT.
- DUAL SERVICES ARE NOT PERMITTED.
- TAPPING MACHINES MUST RETAIN COUPON.
- CONTRACTOR TO CURB CUT VS FOR VALVES AND X'S FOR METERS AND PAINT BLUE.
- WATER LINES CROSSING CUL-DE-SACS SHALL BE FULLY RESTRAINED UNDER PAVEMENT AND CASED.
- ALL STREET CROSSINGS ARE TO BE CASED FROM EDGE OF IMPERMEABLE COVER TO EDGE OF IMPERMEABLE COVER.
- ALL BENDS, FITTINGS, AND VALVES SHALL HAVE ONE (1) RESTRAINT UPSTREAM AND DOWNSTREAM REGARDLESS OF LENGTH.
- CONTRACTOR SHALL CHLORINATE NEW MAINS PER TCEQ AND ANSI/AWWA C651 AND DECHLORINATE DURING FLUSHING PER ANSI/AWWA C655; THE CONTRACTOR SHALL COORDINATE WITH THE GVSUD INSPECTOR TO WITNESS CHLORINATING AND PRESSURE TESTING OF NEW MAINS. ALL TEST RESULTS MUST BE PROVIDED TO GVSUD.
- OPERATION OF EXISTING VALVES IN THE GVSUD WATER DISTRIBUTION SYSTEM SHALL BE OPERATED BY GVSUD PERSONNEL ONLY, UNLESS APPROVED BY GVSUD INSPECTOR.
- NEW WATER MAINS AND APPURTENANCES SHALL PASS PRESSURE TESTING AND PASS THE MINIMUM PUBLIC HEALTH STANDARDS FOR BACTERIOLOGICAL QUALITY TESTING PRIOR TO ANY TIE IN TO THE EXISTING GVSUD WATER SYSTEM AS REQUIRED BY TCEQ AND ANSI/AWWA.
- HYDROSTATIC PRESSURE TESTING SHALL BE EVERY 1200 LF (MAX) OF WATER LINE OR AS APPROVED BY THE ENGINEER. ALL ERRORS OF WORKMANSHIP SHALL BE CORRECTED IMMEDIATELY. ALL PARTS OF THE PIPELINE SHALL BE BACKFILLED AND BRACED SUFFICIENTLY TO PREVENT MOVEMENT UNDER PRESSURE.
- THE CONTRACTOR SHALL PROVIDE THE ENGINEER WITH ALL THE INFORMATION AS REQUIRED SO THAT THE ENGINEER CAN SUPPLY GVSUD THE GIS PACKAGE FOR APPROVAL.
- A FINAL WALK THROUGH FOR FIELD ACCEPTANCE WILL BE SCHEDULED WITH THE CONTRACTOR AFTER THE PRELIMINARY WALK-THROUGH PUNCH LIST ITEMS HAVE BEEN COMPLETED.
- PROVIDE RESTRAINT LENGTHS AT ALL BENDS, VALVES, TEES, AND ALL OTHER FITTINGS.
- ALL MASTER METERED DISTRIBUTION LINES SHALL BE PROTECTED BY AN RPZ BACKFLOW PREVENTER.
- ALL NON-CHEMICAL FIRE LINES SHALL BE PROTECTED BY A DCDA BACKFLOW PREVENTER.
- ALL CHEMICALLY INJECTED FIRE LINES SHALL BE PROTECTED BY AN RPZ BACKFLOW PREVENTER.

MATERIALS

- PVC MAINS 12-INCHES AND BELOW SHALL CONFORM TO AWWA C-909 PRESSURE CLASS 235 OR ABOVE. PVC MAIN GREATER THAN 12-INCHES SHALL CONFORM TO AWWA C-900 DR 18 OR ABOVE. WATER MAINS SHALL HAVE AN ABSOLUTE MINIMUM DEPTH OF 48 INCHES IN ALL AREAS.
- 2-INCH SERVICE CROSSINGS SHALL BE YELOMINE ASTM D2241 OR APPROVED EQUIVALENT.
- TAPPING SADDLES SHALL BE SINGLE BRASS STRAP OR DUAL BANDED STAINLESS-STEEL FLAT-STRAP EPOXY SADDLE WITH IRON PIPE THREADS.
- ALL FASTENERS SHALL BE 304 STAINLESS-STEEL (E.G. HARDWARE, SCREWS, ANCHOR BOLTS, RODS, FLANGE BOLTS AND NUTS, ETC.). ALL BOLTS AND NUTS SHALL BE HEAVY HEX. FIELD-APPLY NICKEL ANTI-SEIZE COMPOUND PRIOR TO ASSEMBLY. BOLTS AND NUTS SHALL NOT BE PAINTED.
- ALL BURIED METAL PIPE, FITTINGS, AND VALVES SHALL BE WRAPPED WITH 8MIL POLY.
- PAINT SHALL BE HIGH-BUILD EPOXY WITH TOPCOAT OF POLYURETHANE.
- ALL FIRE HYDRANT LEADS SHALL BE DUCTILE IRON C151 OR APPROVED EQUIVALENT.

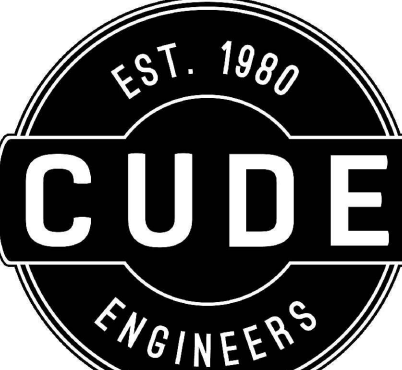
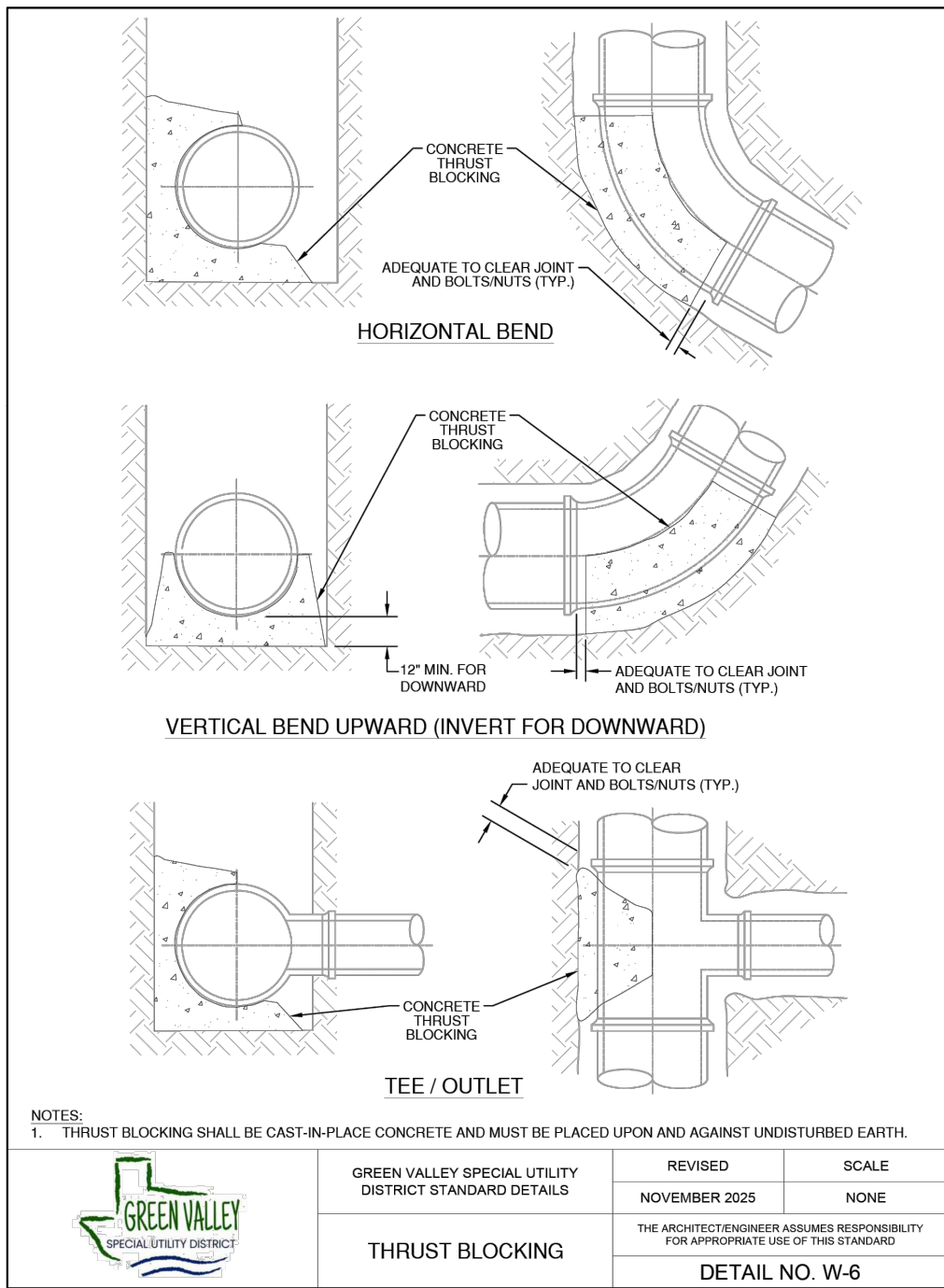
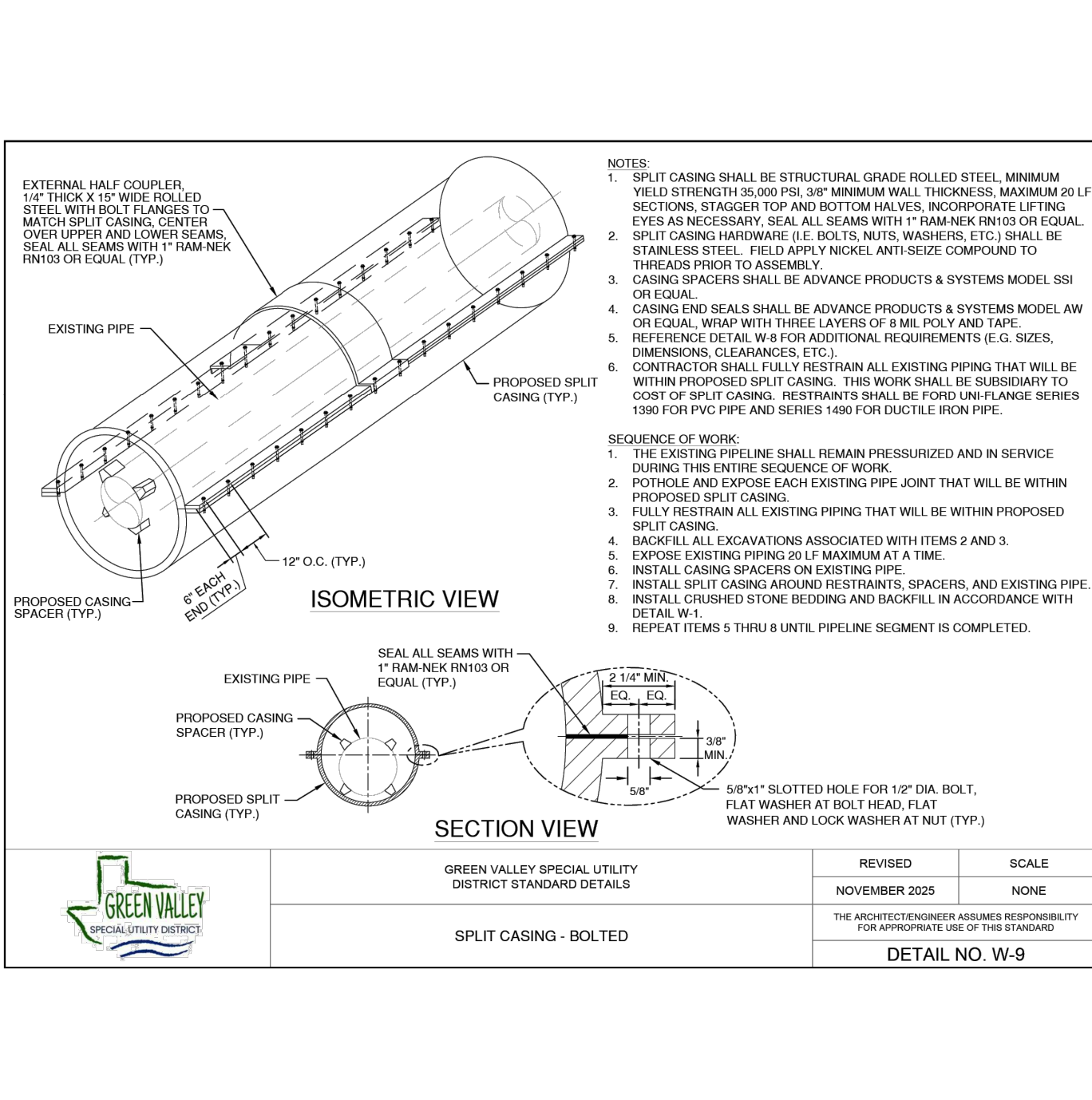
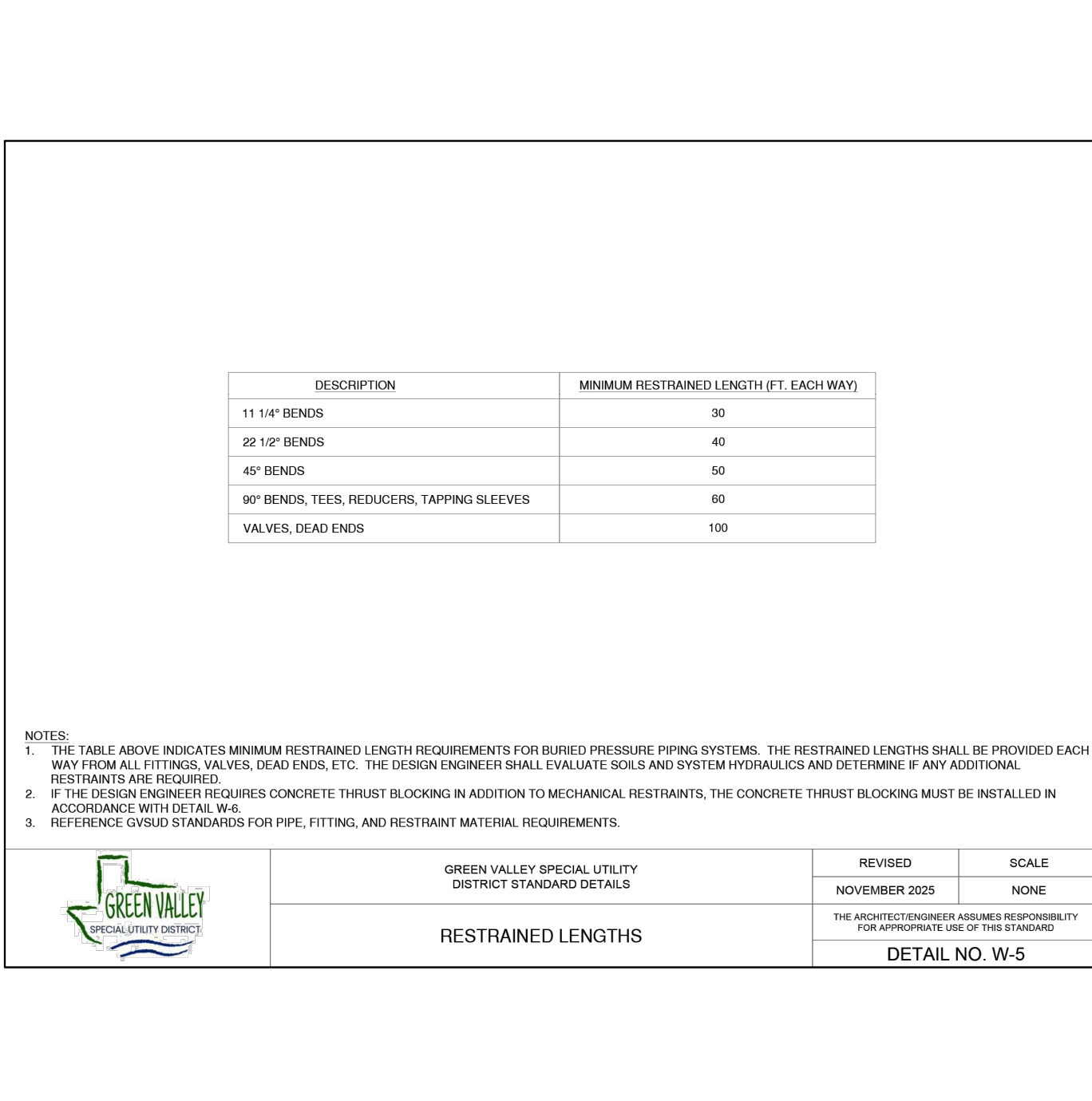
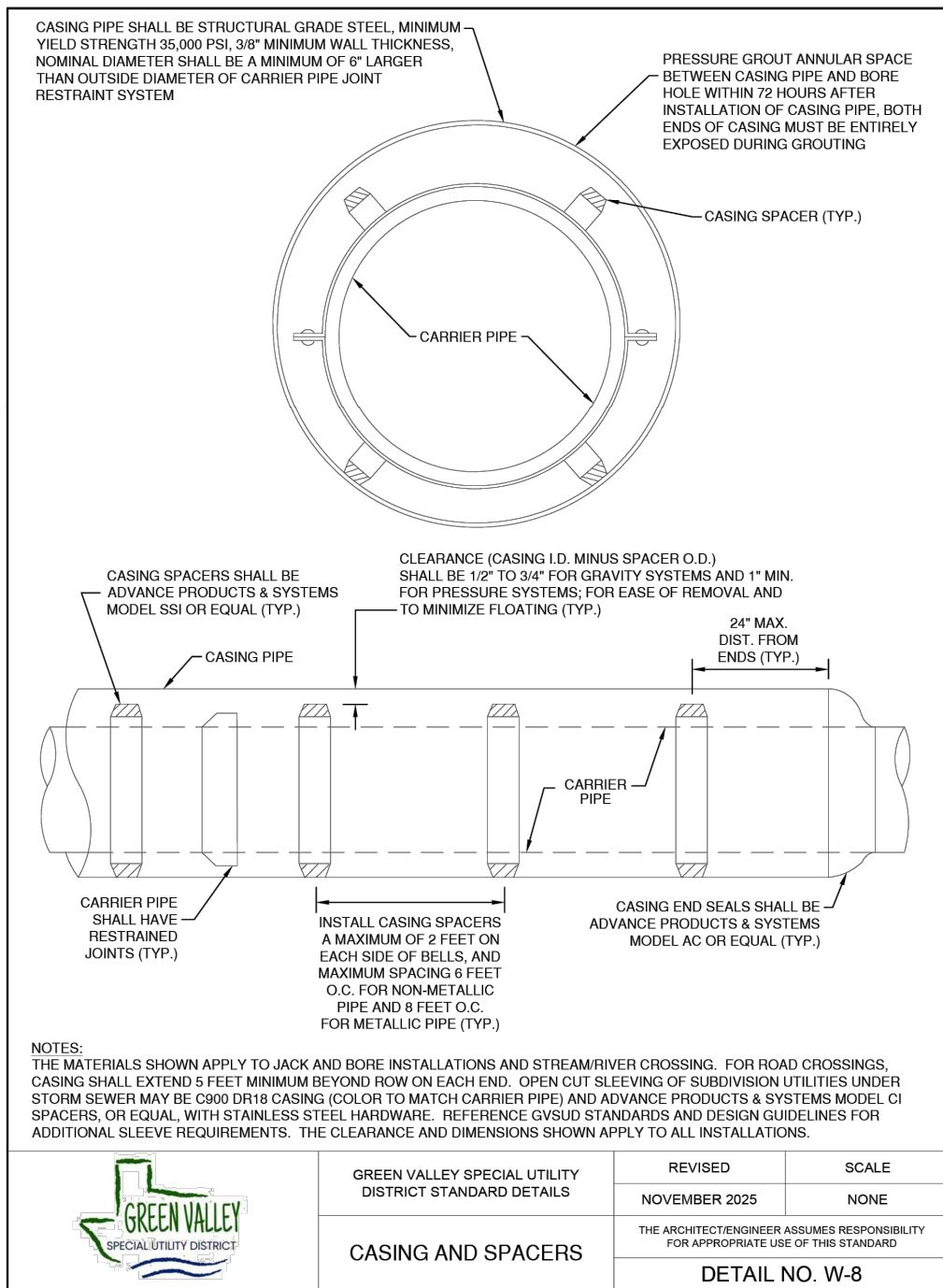
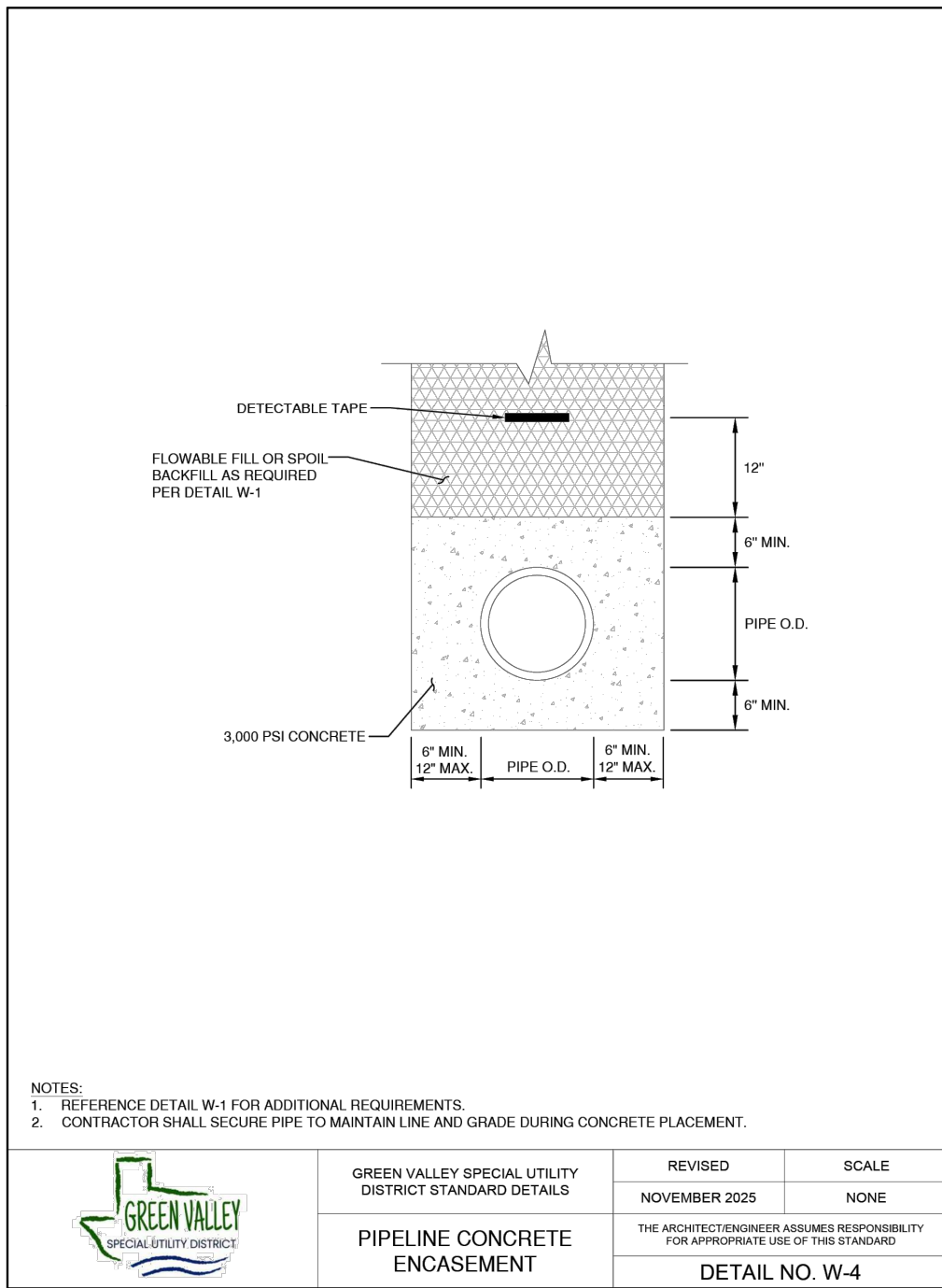
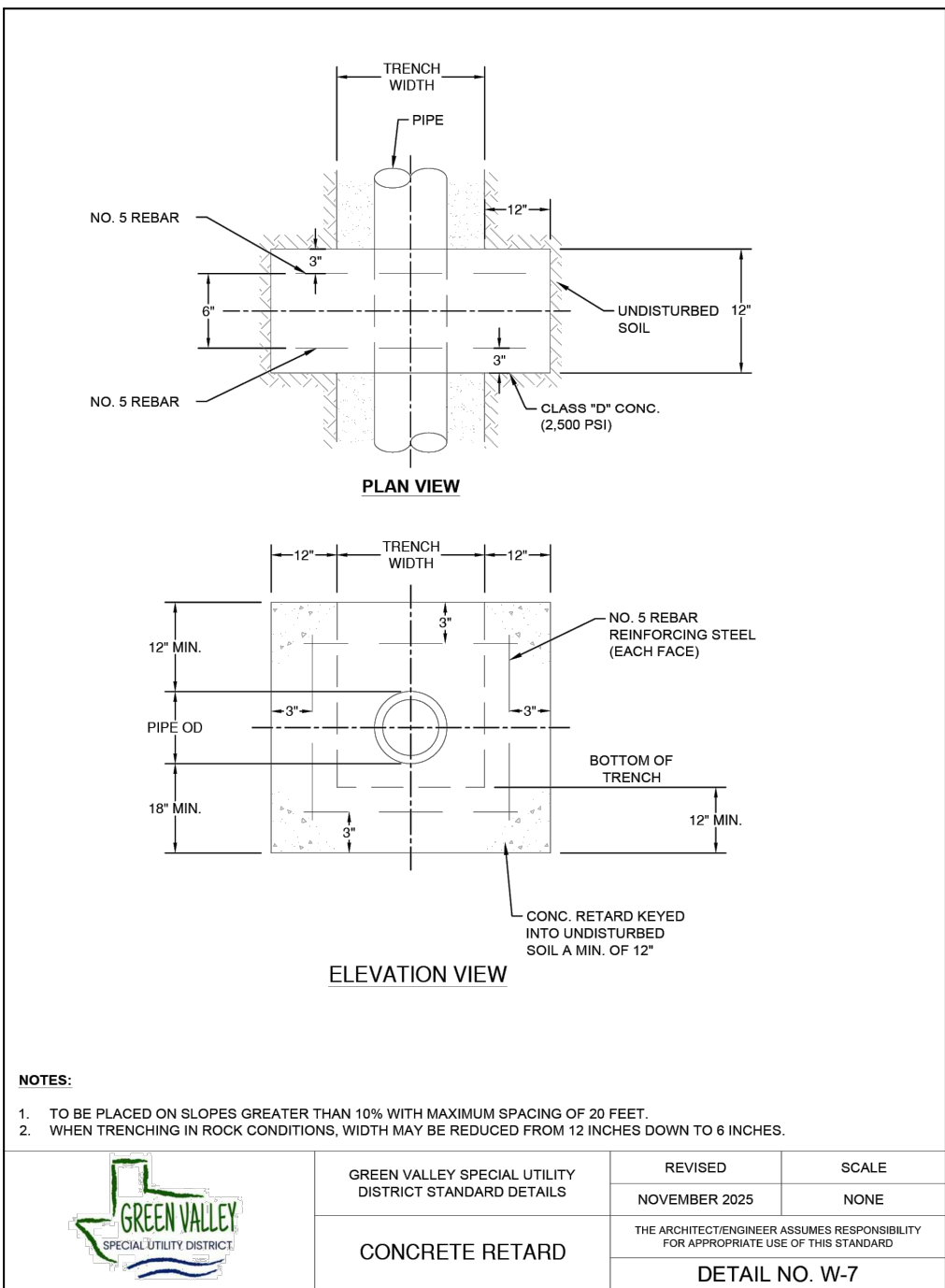
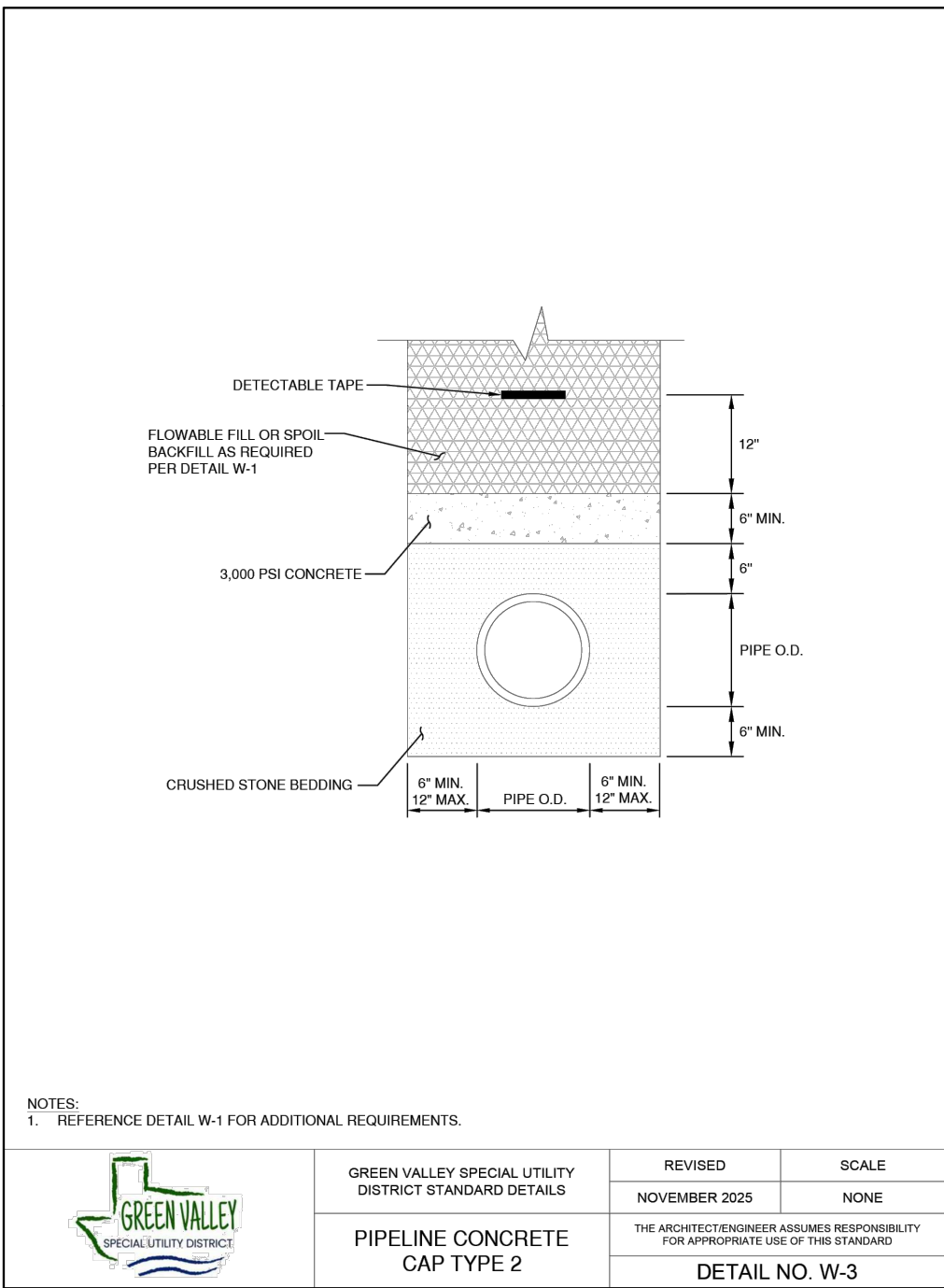
TESTING

- ALL TESTING SHALL BE ARRANGED AND PAID FOR BY THE CONTRACTOR AND WITNESSED BY GVSUD.
- ALL TESTING MUST BE COMPLETE PRIOR TO PAVING STREETS.
- THE CONTRACTOR SHALL PROVIDE GVSUD COPIES OF ALL TEST RESULTS PRIOR TO ACCEPTANCE OF THE PROJECT.
- ALL TESTING MUST BE COMPLETE PRIOR TO PERFORMING TIE-INS TO EXISTING WATER SYSTEMS.
- ALL OTHER UTILITIES MUST BE COMPLETE AND OFFSITE PRIOR TO PERFORMING HYDROSTATIC PRESSURE TESTING.
- CONTRACTOR SHALL PERFORM SPIKE TEST AT 200 PSI FOR 15 MINUTES THEN REDUCE PRESSURE TO 150 PSI FOR 2 HOURS.
- CONTRACTOR SHALL PERFORM PERM TEST-TESTING TO VERIFY PASSING RESULTS PRIOR TO REQUESTING GVSUD INSPECTION. PROVIDE CONNECTION POINT FOR GVSUD DIGITAL TEST GAUGE (QUICK CONNECT).
- PERFORM TRENCH BACKFILL DENSITY TESTING AT INTERVALS SPECIFIED BY THE DESIGN ENGINEER, EXACT LOCATIONS TO BE DESIGNATED BY INSPECTOR. SCHEDULE WITH GVSUD TO WITNESS 48 HOURS PRIOR TO TEST. PROVIDE COPIES OF REPORTS TO GVSUD.
- HYDROSTATIC PRESSURE TESTING SHALL BE EVERY 1200 LF (MAX) OF WATER LINE OR AS APPROVED BY THE ENGINEER. ALL ERRORS OF WORKMANSHIP SHALL BE CORRECTED IMMEDIATELY. ALL PARTS OF THE PIPELINE SHALL BE BACKFILLED AND BRACED SUFFICIENTLY TO PREVENT MOVEMENT UNDER PRESSURE.

CONSTRUCTION NOTES

- ALL WORK SHALL BE IN ACCORDANCE WITH GVSUD STANDARDS AS PUBLISHED AT THE FOLLOWING WEBSITE: [HTTP://WWW.GVSUD.ORG/](http://www.gvsud.org/)
- MATERIAL SUBMITTALS SHALL BE PROVIDED FOR GVSUD REVIEW AND APPROVAL. ALLOW 21 CALENDAR DAYS FOR REVIEW.
- ALL WATER INSTALLATIONS MUST BE INSPECTED AND APPROVED BY GVSUD PRIOR TO BACKFILLING OR OTHERWISE COVERING THE WORK. GVSUD WILL REJECT ANYTHINGS BACKFILLED PRIOR TO GVSUD APPROVAL. THIS INCLUDES CROSSINGS OF WATER AND WASTEWATER BY OTHER UTILITIES. GVSUD WILL PERFORM A MAXIMUM OF ONE (1) INSPECTION DAILY FOR ONE (1) HOUR DURATION BETWEEN 7:30AM AND 4:00PM EXCLUDING WEEKENDS AND HOLIDAYS. CALL TO SCHEDULE INSPECTIONS (48-HOURS ADVANCE NOTICE IS REQUIRED FOR ALL INSPECTIONS).
- TRENCH EXCAVATION AND PIPE INSTALLATION WILL NOT BE PERMITTED UNTIL SUBGRADE HAS BEEN ESTABLISHED. SURVEY STAKING MUST BE INSTALLED PRIOR TO AND MAINTAINED DURING TRENCH EXCAVATION AND PIPE INSTALLATION. SURVEY STAKING SHALL INCLUDE HORIZONTAL AND VERTICAL CONTROL AT A MINIMUM OF 50-FOOT STATION INTERVALS. SURVEY STAKING SHALL BE PERFORMED BY THE CONTRACTOR.
- PROPER SHORING AND/OR BENCHING MUST BE PRESENT AT ALL TIMES FOR ANYTHING 4-FEET IN DEPTH OR DEEPER. GVSUD WILL STOP WORK UNTIL PROPER SAFETY PROTOCOLS HAVE BEEN ESTABLISHED.
- BACKFLOW PREVENTION IN THE FORM OF A REDUCED PRESSURE ZONE BACKFLOW PREVENTION ASSEMBLY MUST BE PROVIDED FOR TEMPORARY CONNECTIONS TO EXISTING WATER LINES. BACKFLOW PREVENTION ASSEMBLIES SHALL BE TESTED BY A LICENSED BACKFLOW PREVENTION ASSEMBLY TESTER.
- ALL PIPING SHALL BE INSTALLED IN STRAIGHT ALIGNMENT. PIPE DEFLECTION IS NOT ALLOWED.
- INSTALL CONCRETE THRUST BLOCKING AND MECHANICAL RESTRAINTS FOR PRESSURIZED PIPING SYSTEMS.
- WATER PIPE SHALL BE INSTALLED ABOVE WASTEWATER AND ALL PIPE JOINTS SHALL BE CENTERED AT CROSSINGS WITH ALL OTHER UTILITIES. BOTH PIPE JOINTS SHALL BE CENTERED WHERE WATER CROSSES WASTEWATER MAINS AND LATERALS 10-FEET IN EITHER DIRECTION.
- MAINTAIN A MINIMUM OF 10-FEET HORIZONTAL AND 24-INCH VERTICAL CLEARANCE BETWEEN WATER AND WASTEWATER AND OTHER UTILITIES. SHARED TRENCHES ARE NOT ALLOWED.
- WATER PIPING SHALL BE SLEEVED IF LOCATED UNDER BOX CULVERTS, SINGLE BARREL, OR MULTIPLE BARREL STORM SEWER CROSSINGS REGARDLESS OF SIZE.
- VALVE BOXES AND APPURTENANCES SHALL BE PAINTED. PROVIDE PAINTED CURB CUT MARKINGS AT VALVES AND SERVICES.
- ALL EXPOSED VERTICAL AND HORIZONTAL CONCRETE EDGES SHALL BE FORMED WITH 1/2" CHAMFER STRIPS. CONCRETE IN UNPAVED AREAS SHALL BE 2" ABOVE FINISH GRADE.
- THE CONTRACTOR SHALL PROVIDE A COMPETENT AND QUALIFIED SUPERINTENDENT TO SUPERVISE ALL WORK. THE SUPERINTENDENT SHALL BE PRESENT DURING ALL CONSTRUCTION ACTIVITIES, INCLUDING INSPECTIONS.

NO SEPARATE PAY WILL BE GIVEN TO DE-WATER TRENCHES OR OTHER EXCAVATED AREAS.



4122 Pond Hill Road, Suite 101
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STETSON RIDGE
UNIT 2

WATER DISTRIBUTION PLAN DETAILS

DATE
12/16/2025

PROJECT NO.
04127.005

DRAWN BY
CG/JG/LJ/TC

CHECKED BY
XV/JC

REVISIONS

DATE
2025-12-16

CHANGED COMMENTS

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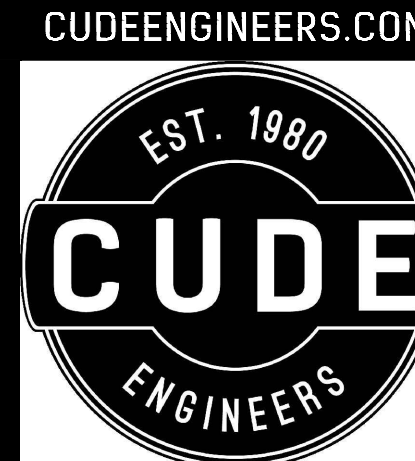
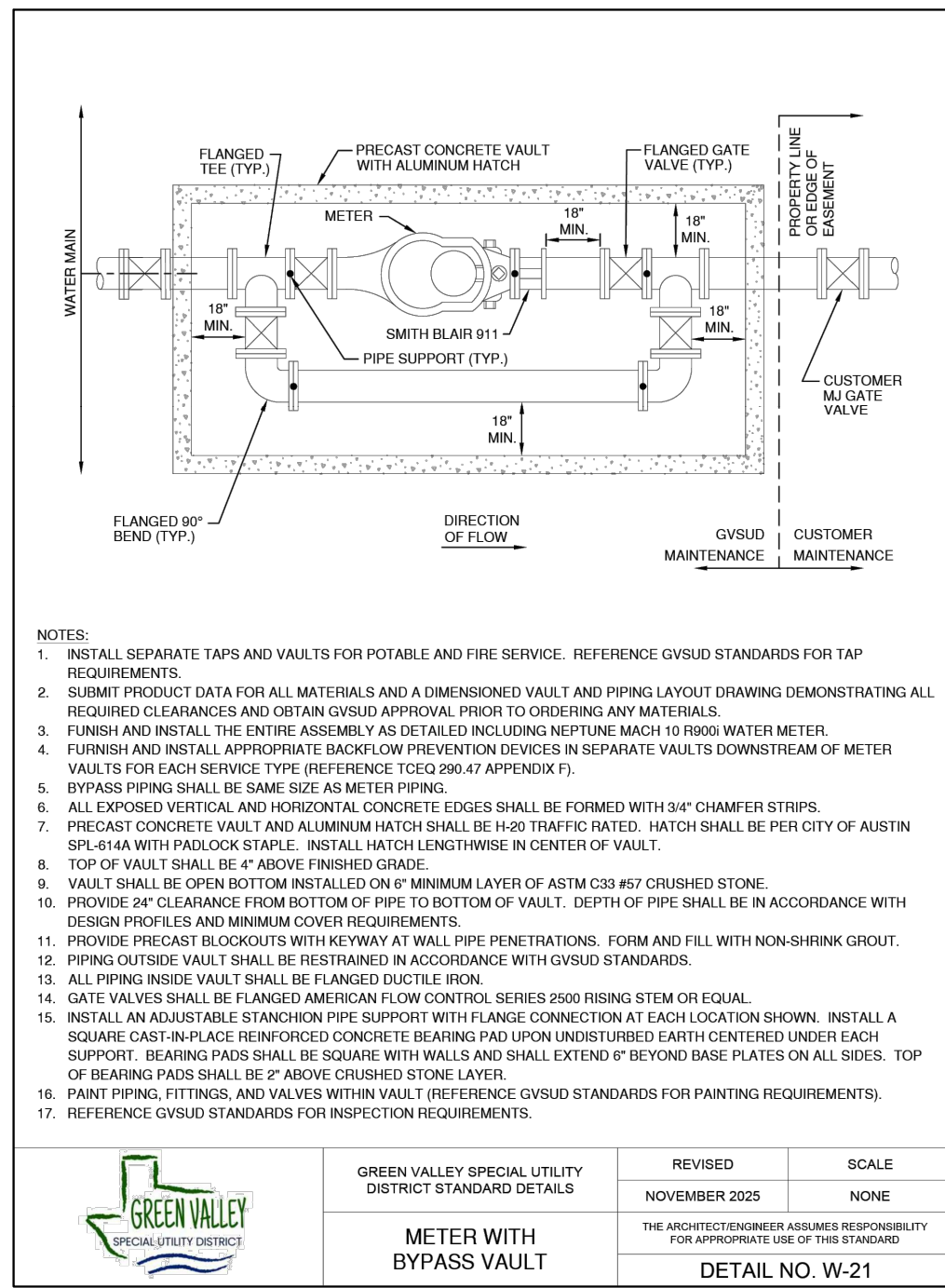
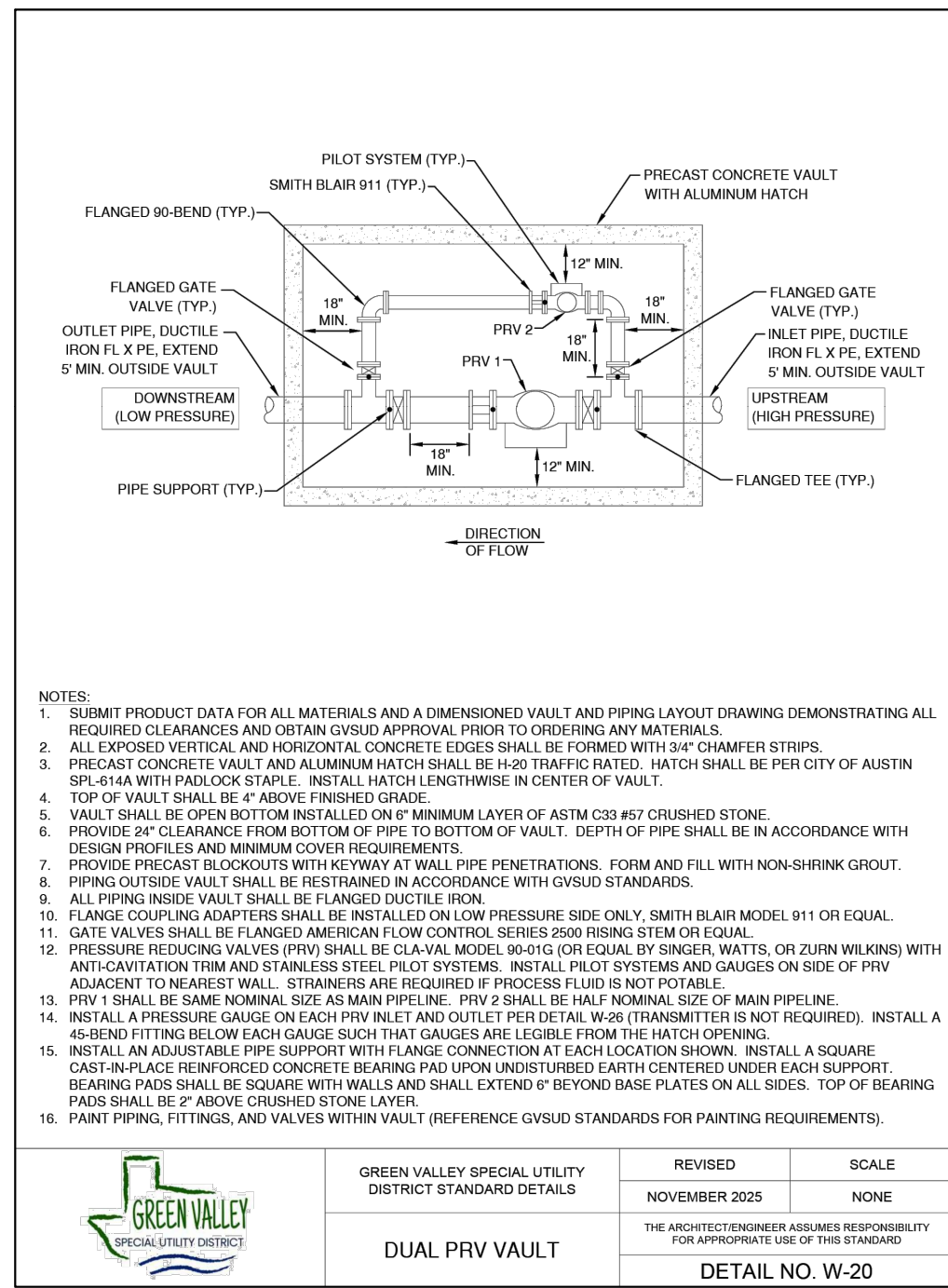
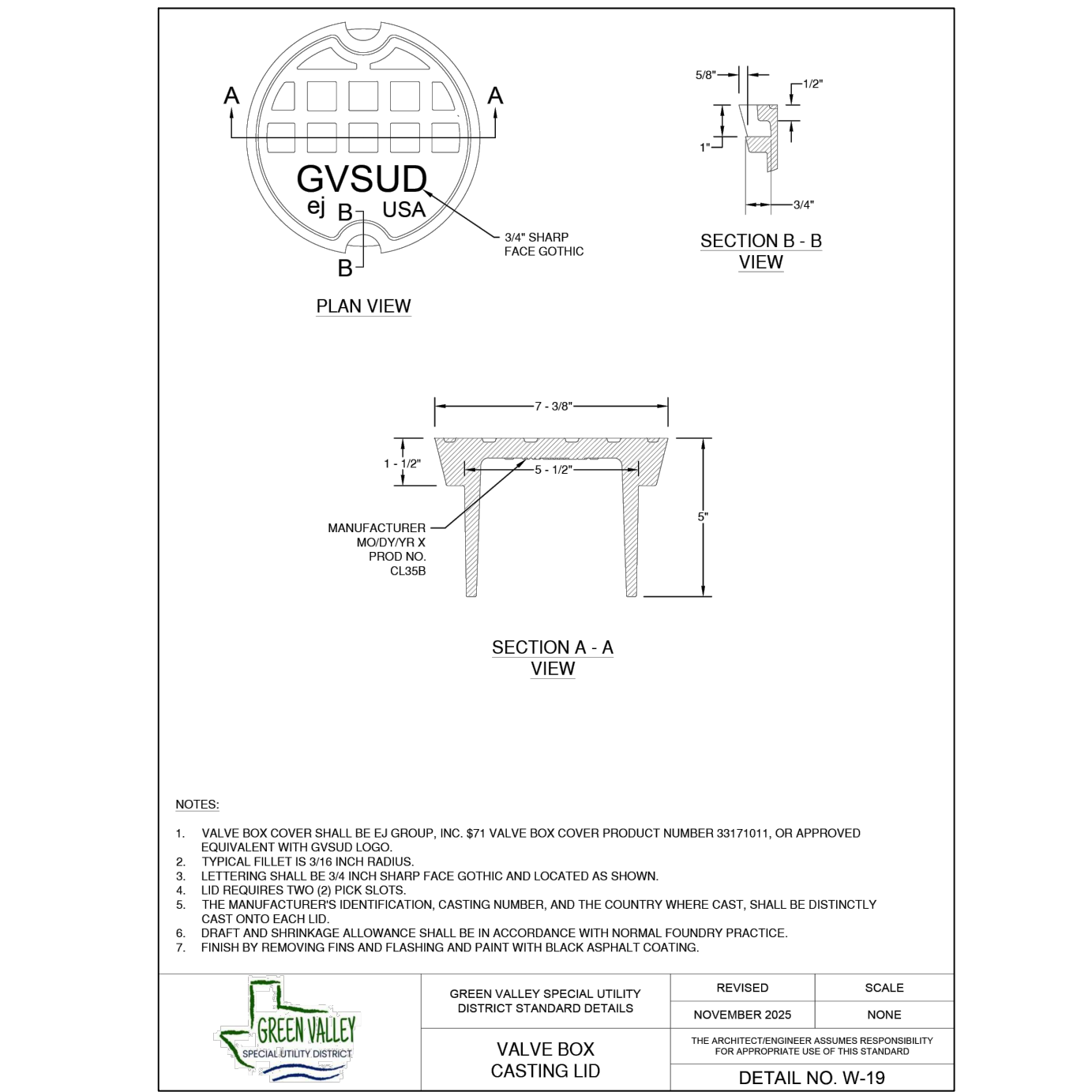
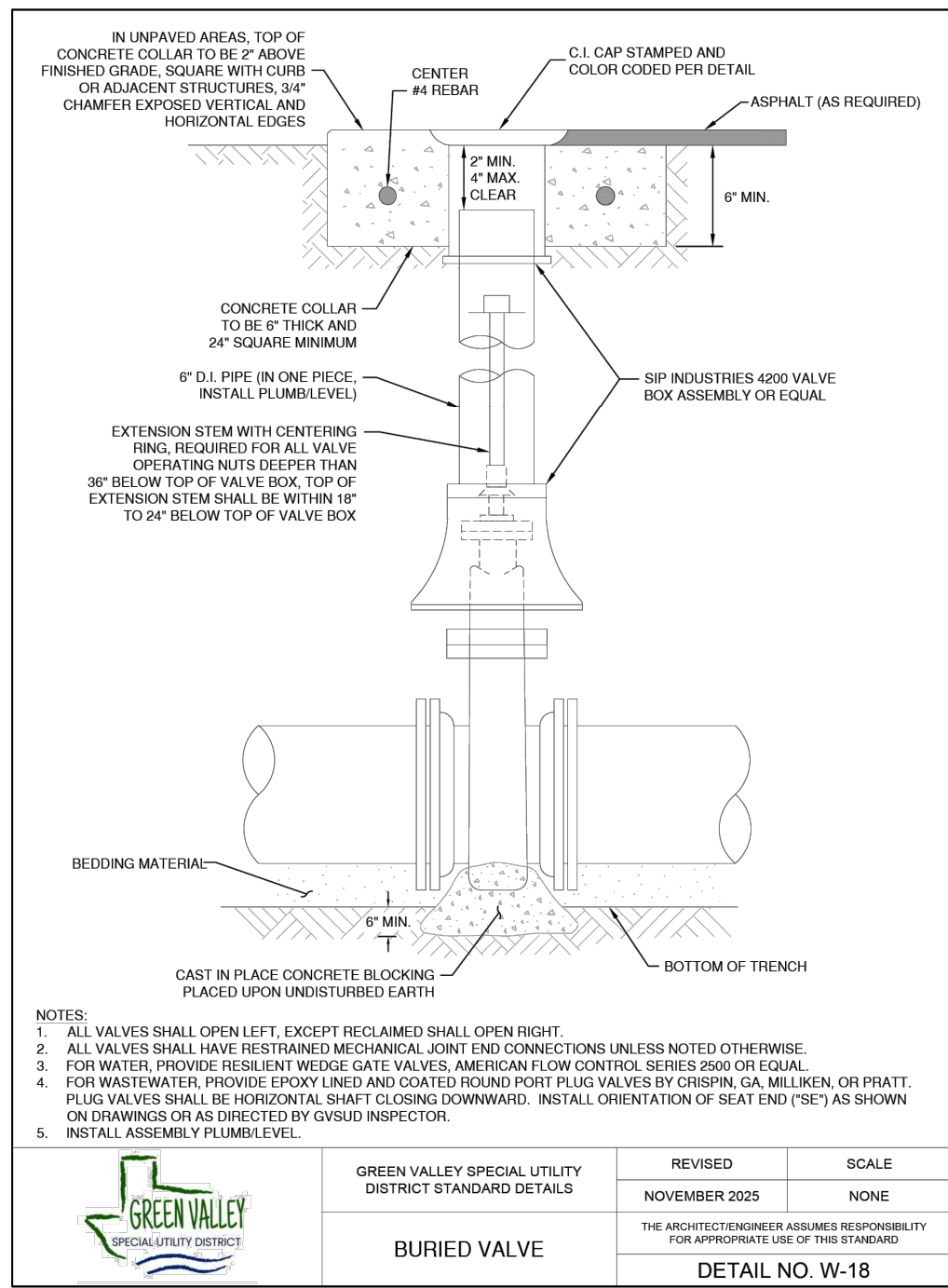
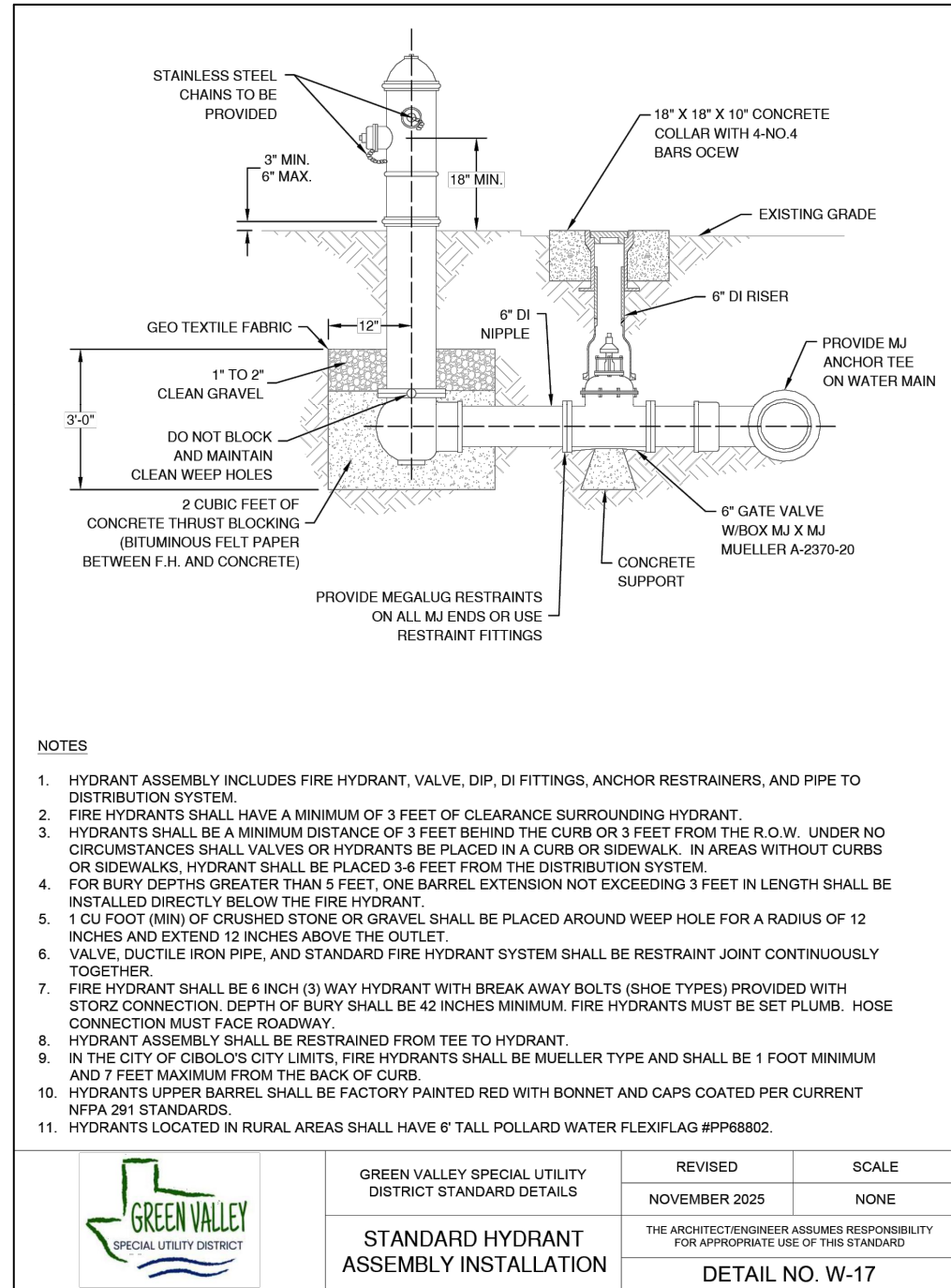
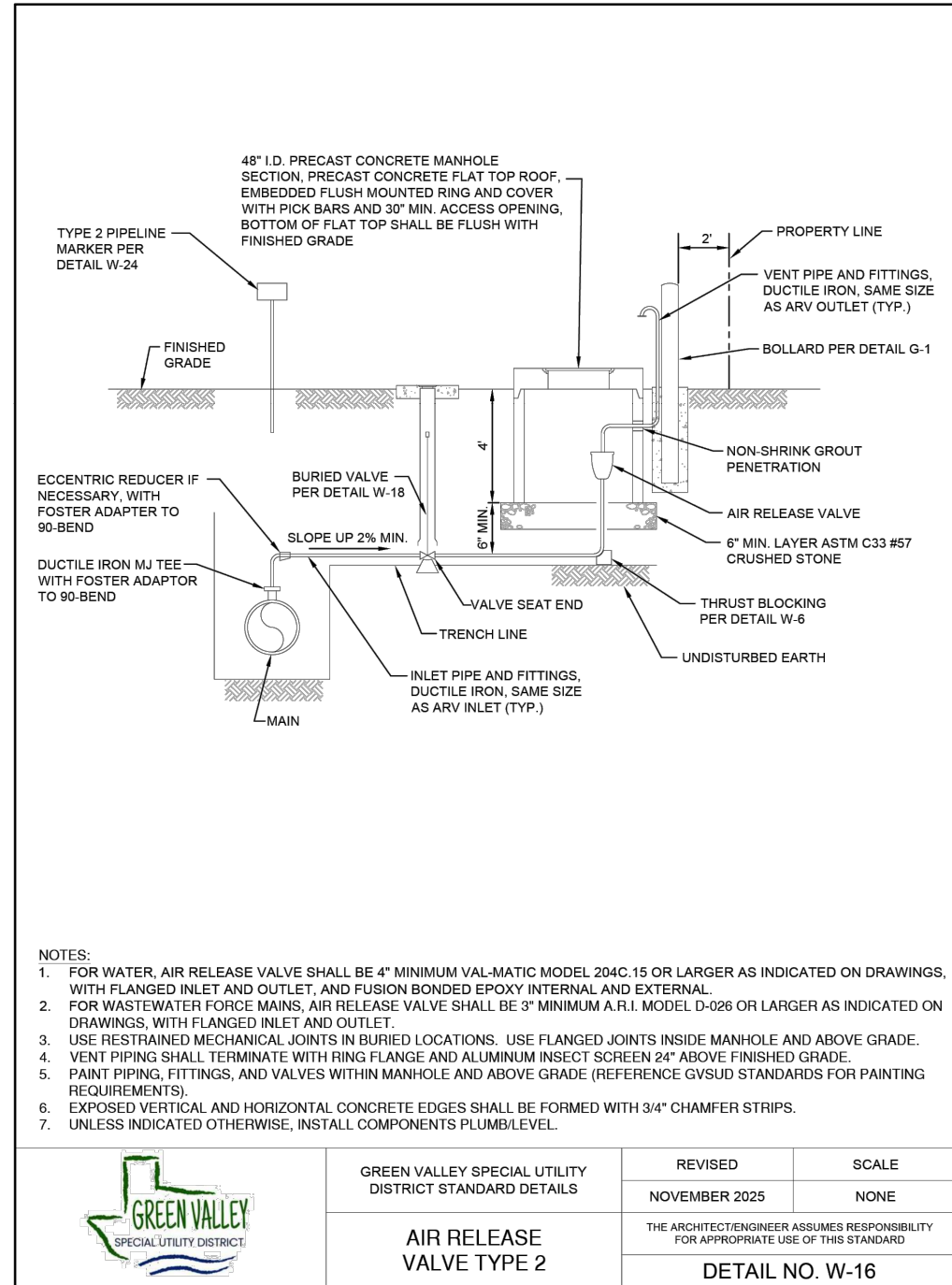
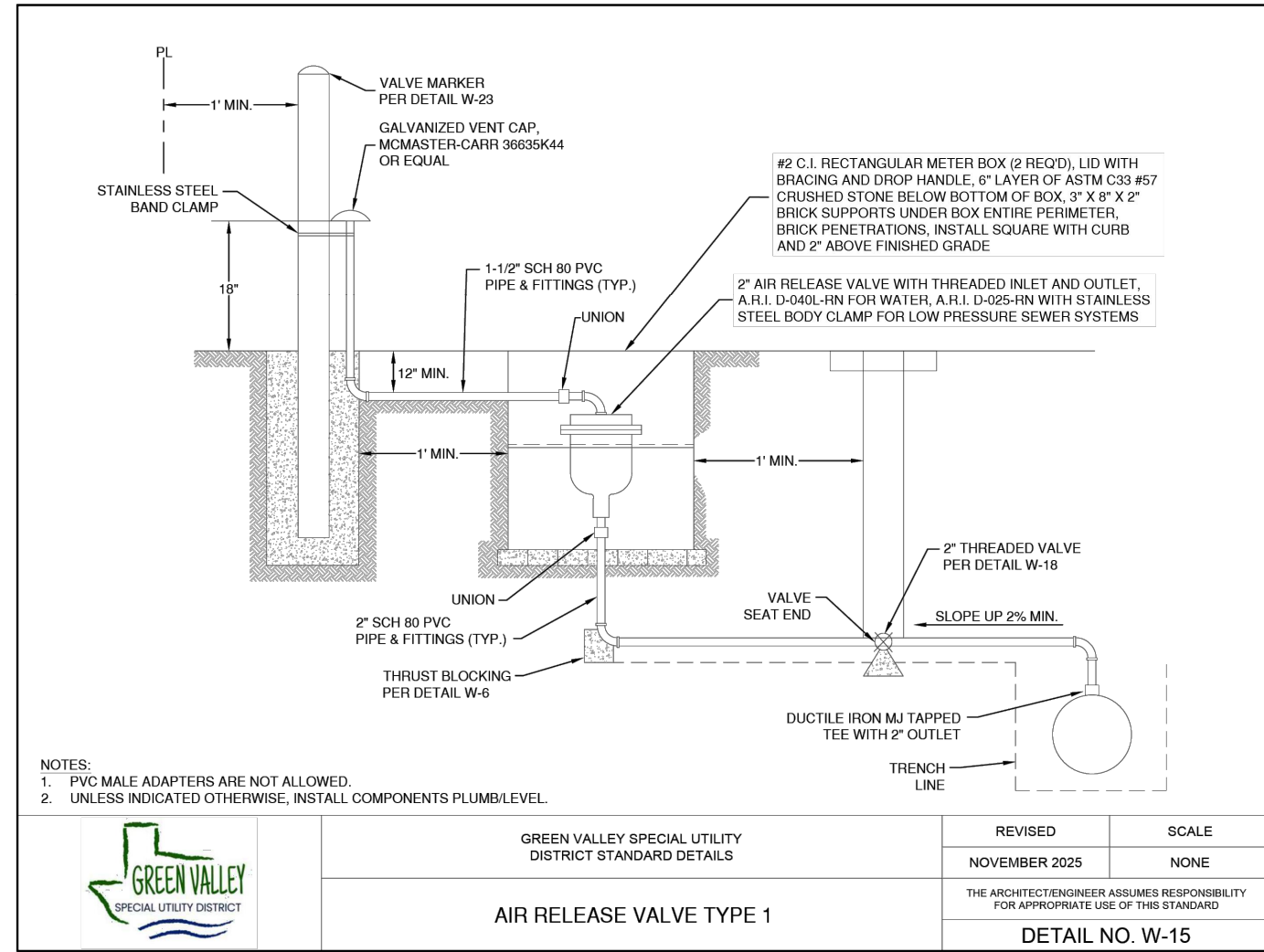
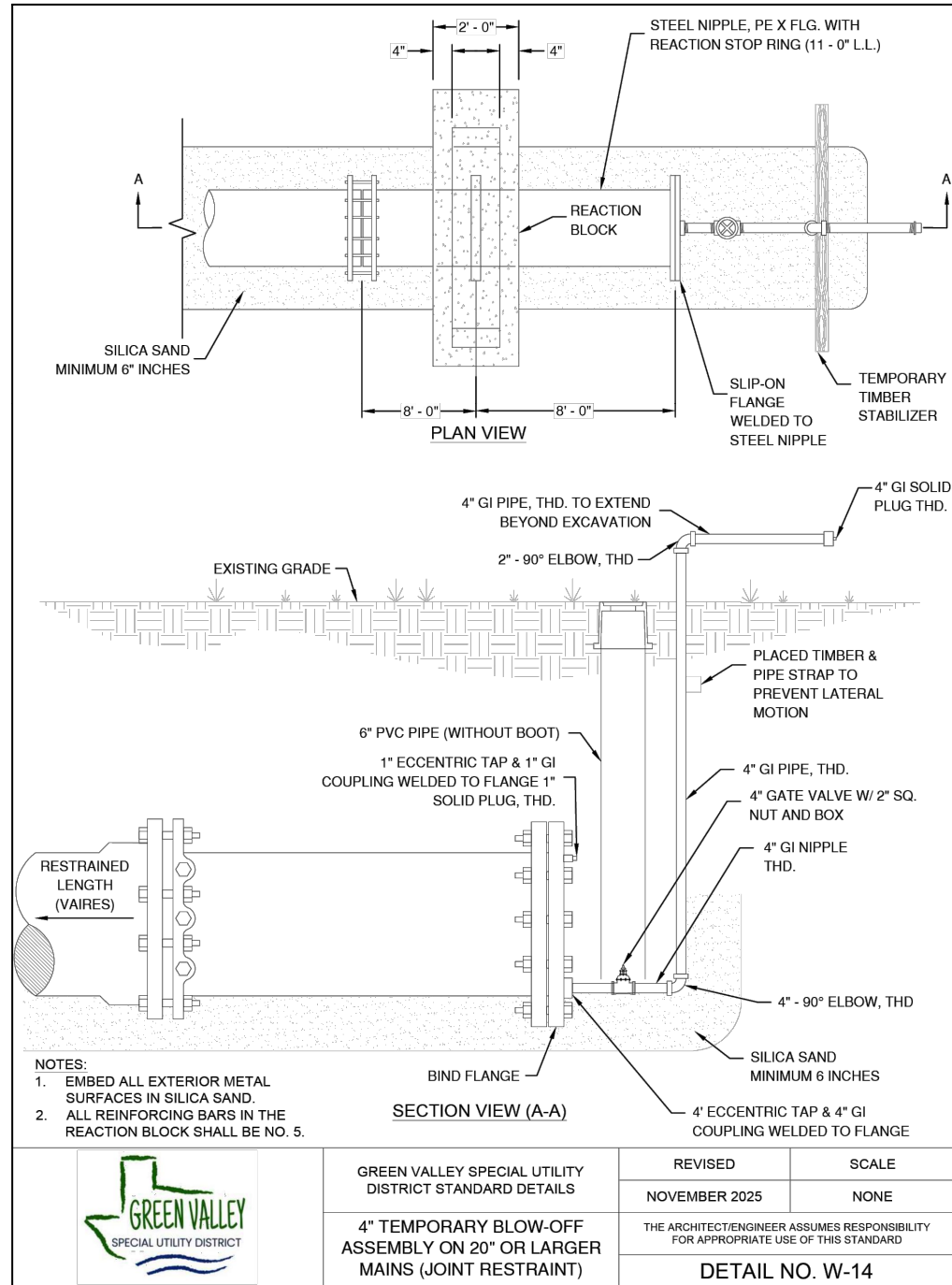
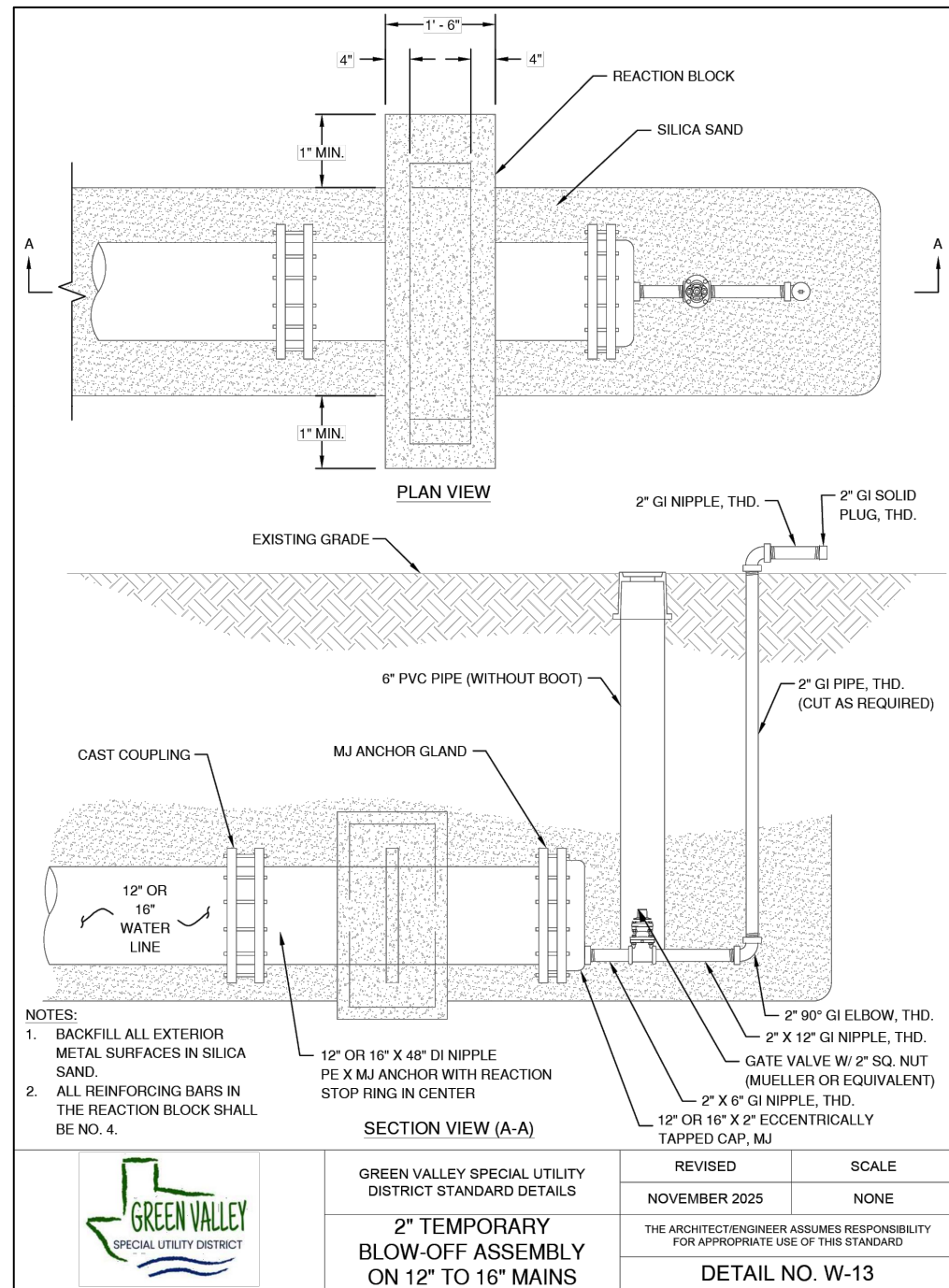
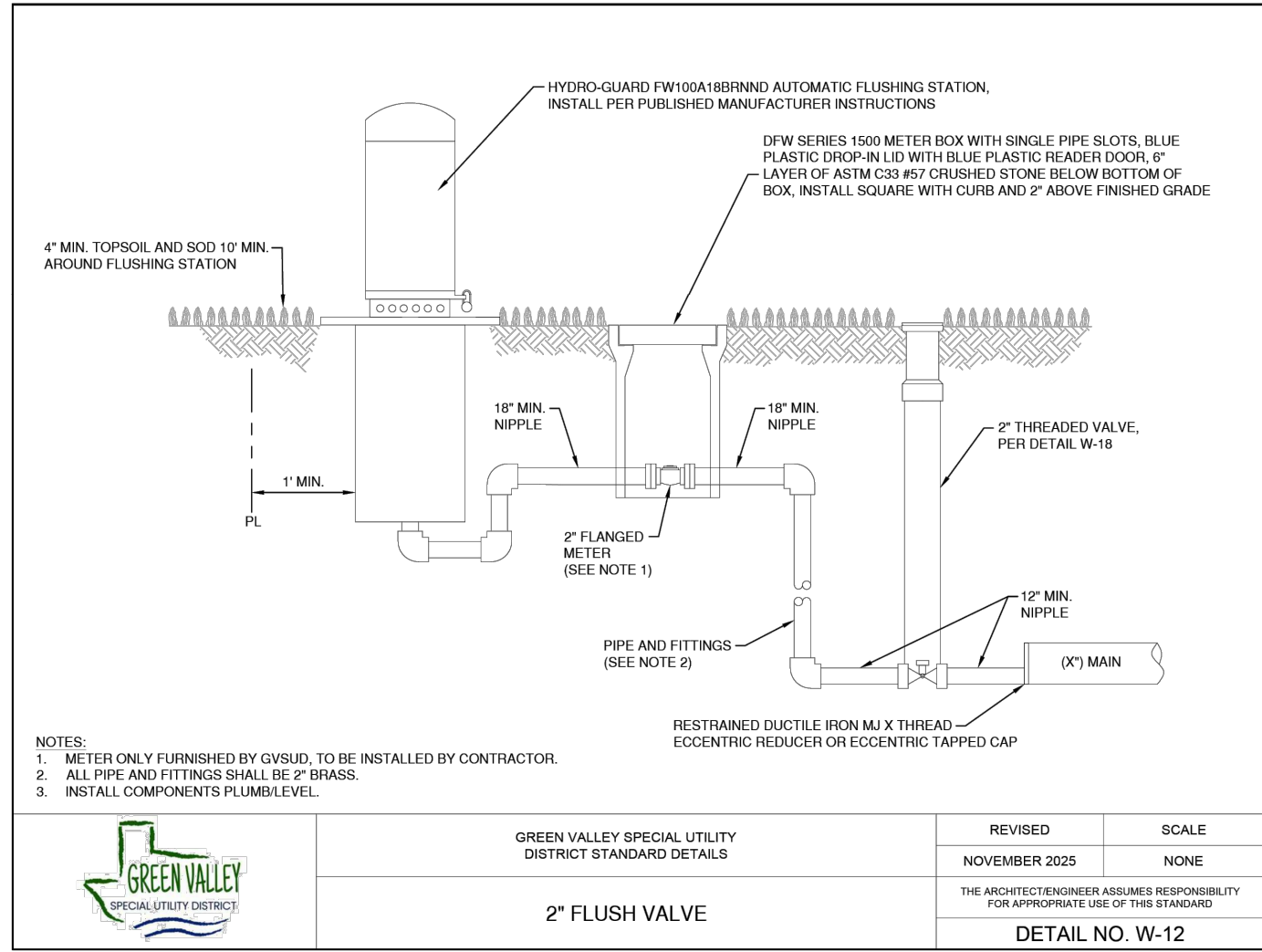
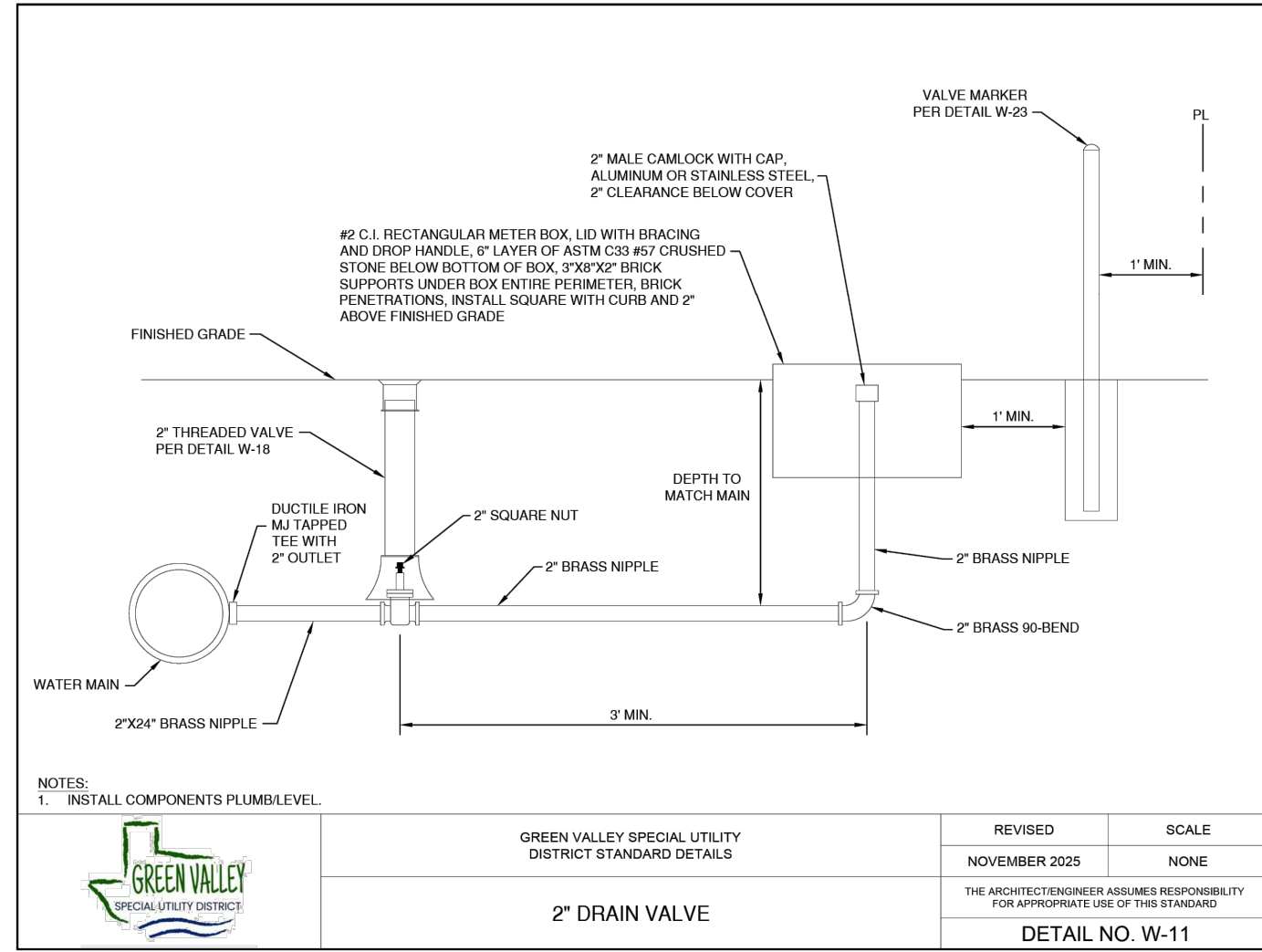
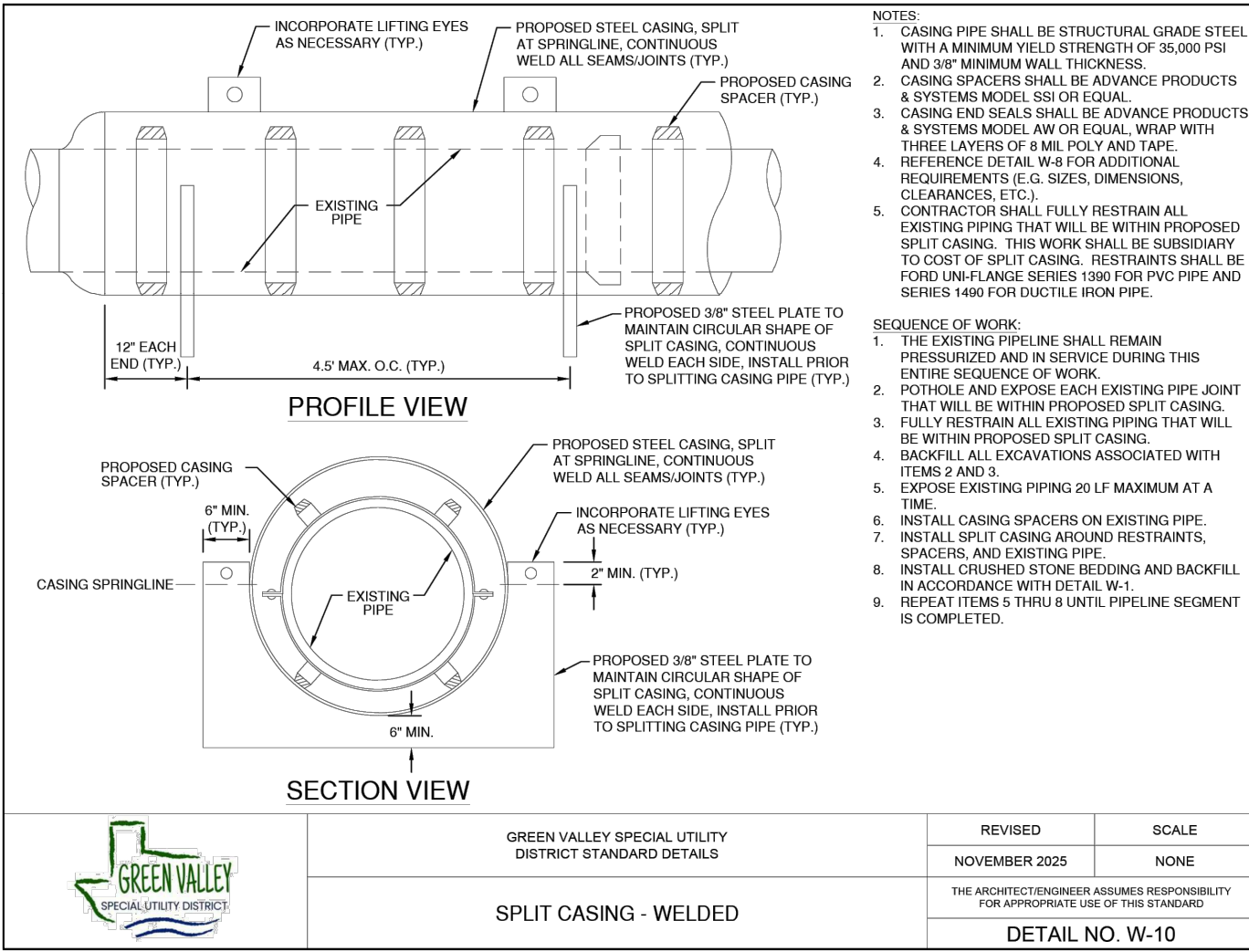
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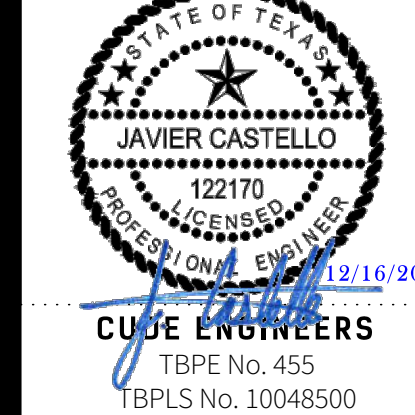


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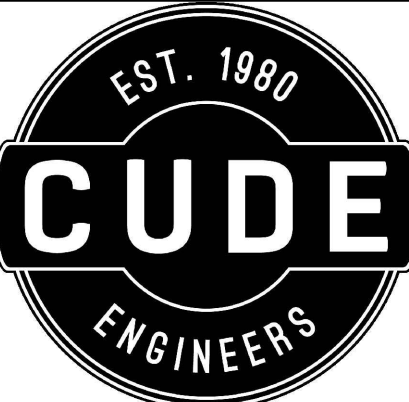
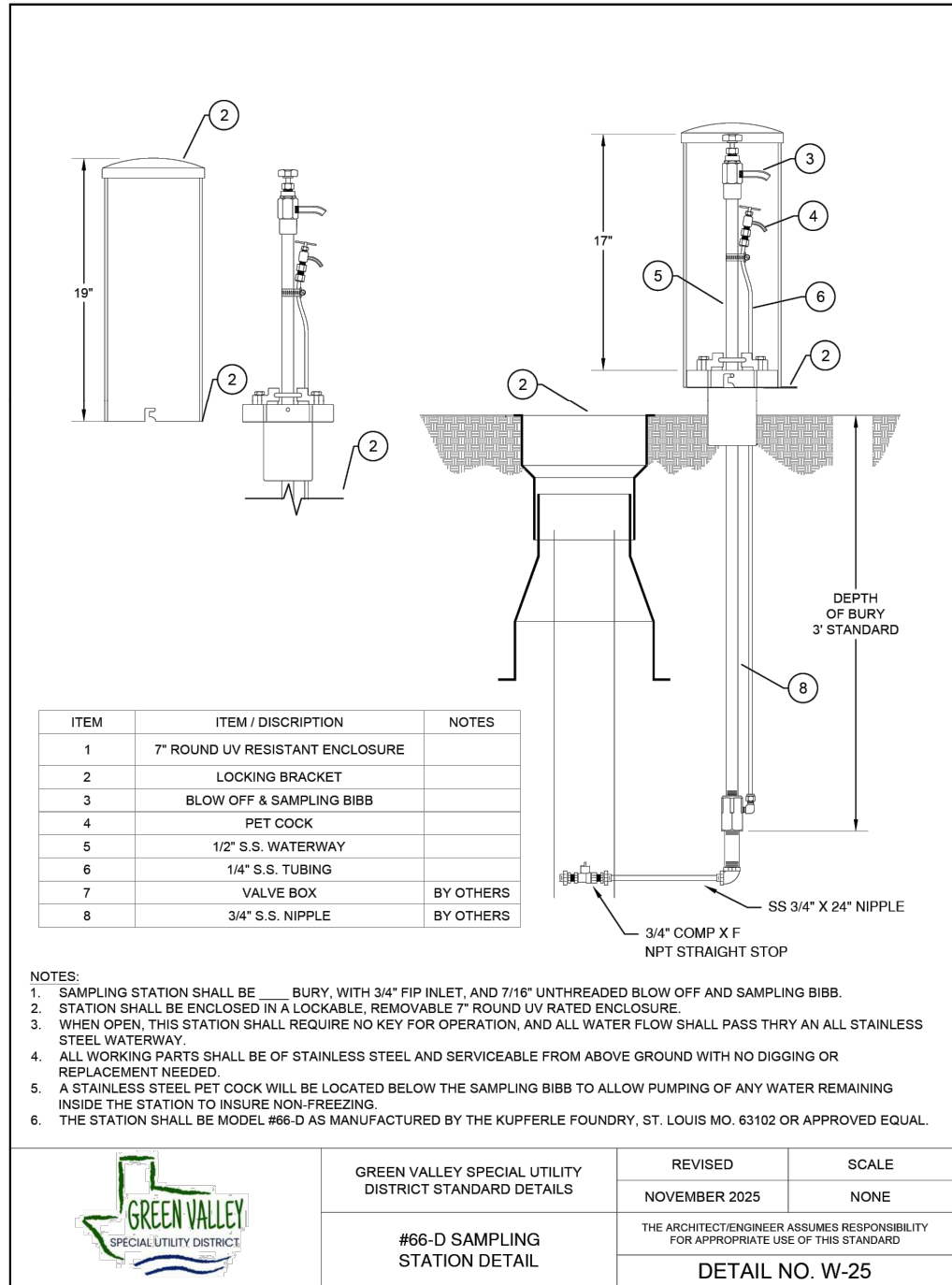
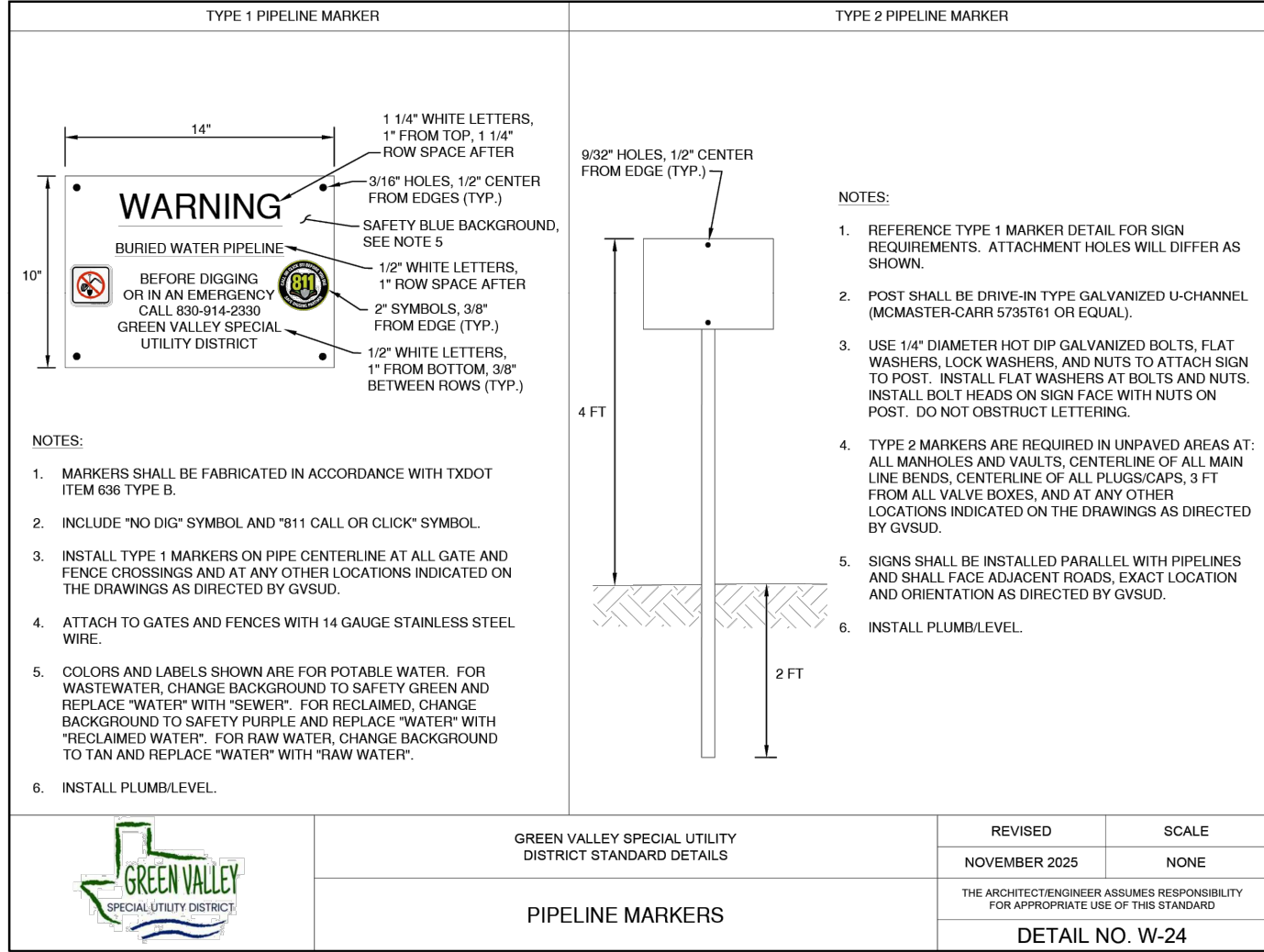
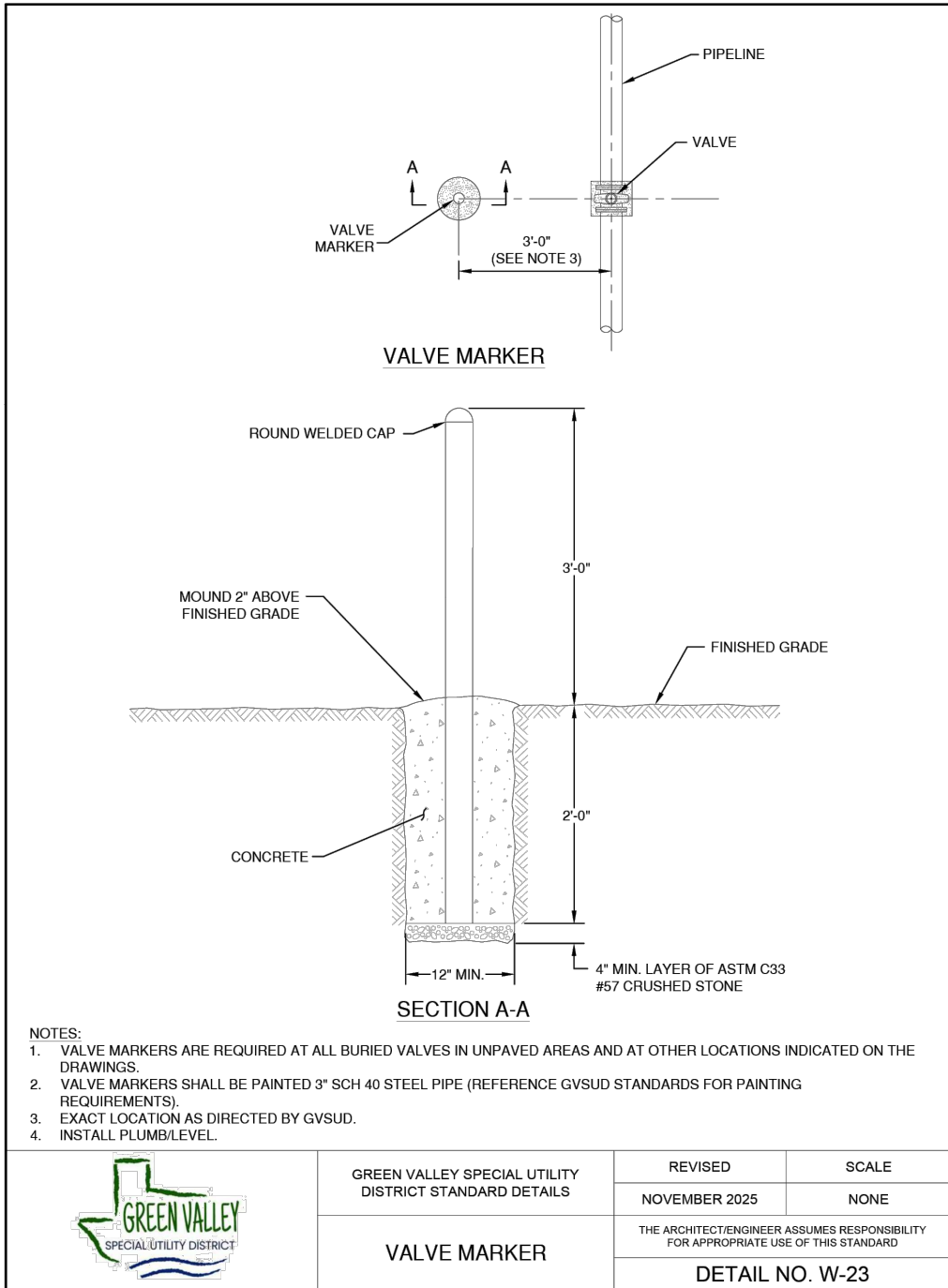
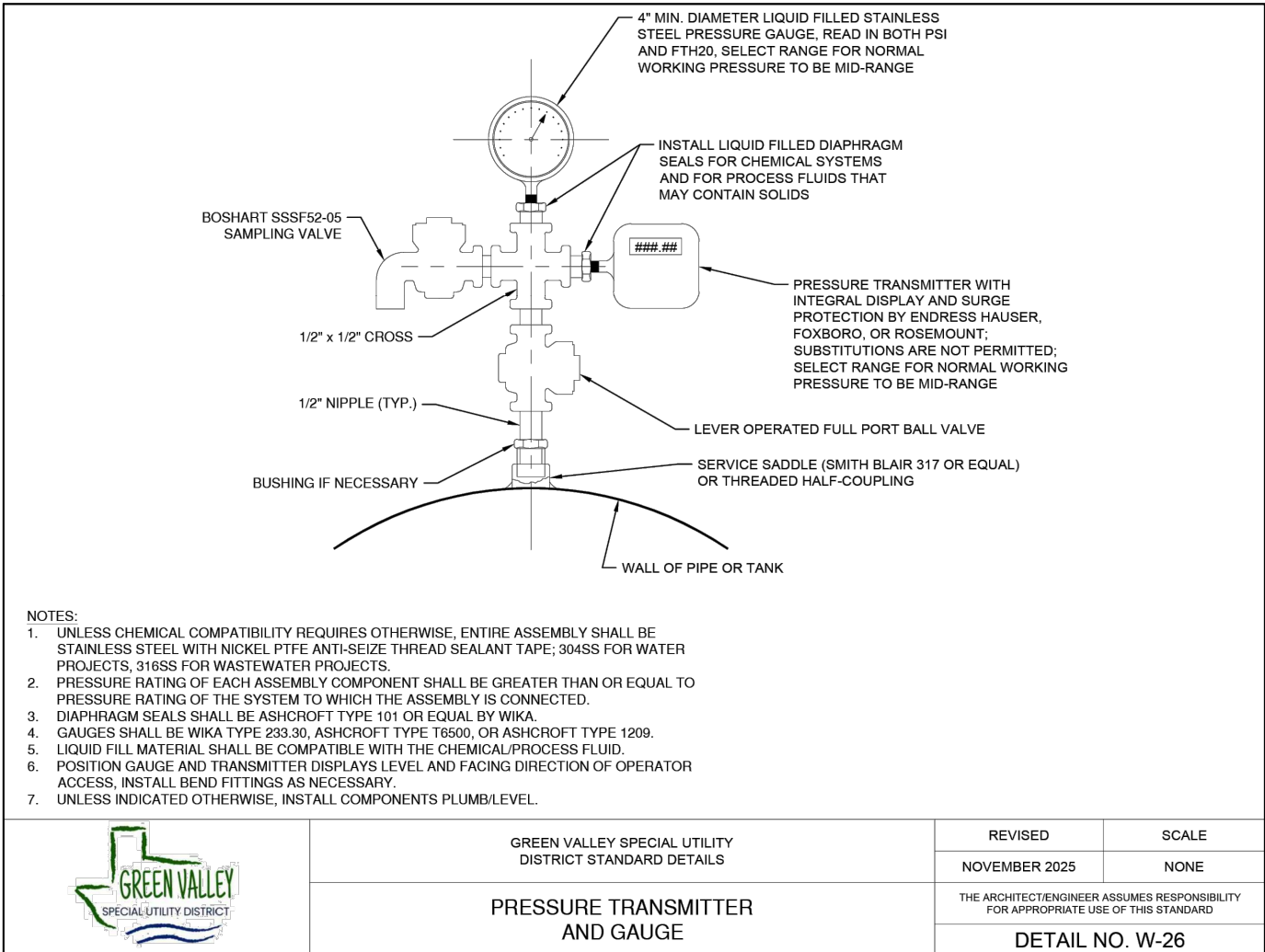
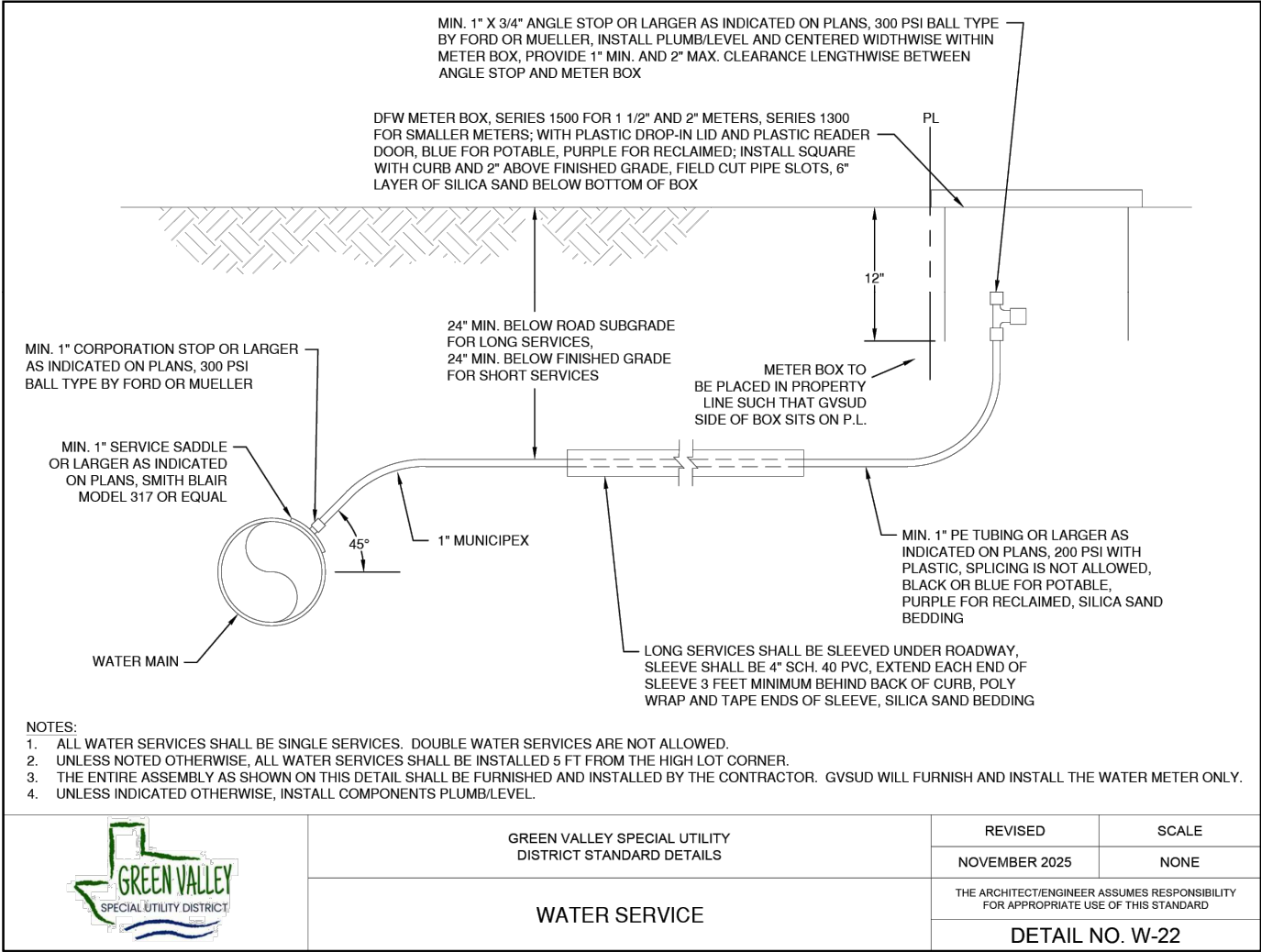
STETSON RIDGE UNIT 2 WATER DISTRIBUTION PLAN DETAILS

DATE
12/16/2025
PROJECT NO.
04127.005
DRAWN BY
CG/JG/LJ/TC
CHECKED BY
XV/JC

REVISIONS	DATE	DESCRIPTION
1	2025-12-16	QUAD CORRECTIONS



CUDE ENGINEERS
TBPE No. 455
TBPLS No. 10048500



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San Antonio, Texas 78231
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STETSON RIDGE
UNIT 2

WATER DISTRIBUTION PLAN DETAILS

DATE
12/16/2025

PROJECT NO.
04127.005

DRAWN BY
CG/JG/LJ/TC

CHECKED BY
XV/JC

REVISIONS

DATE

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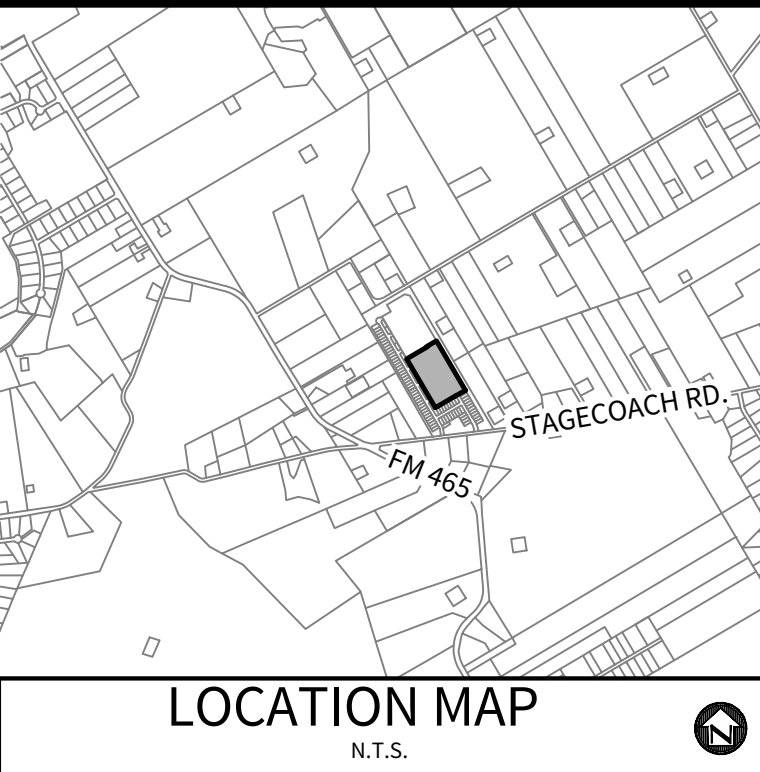
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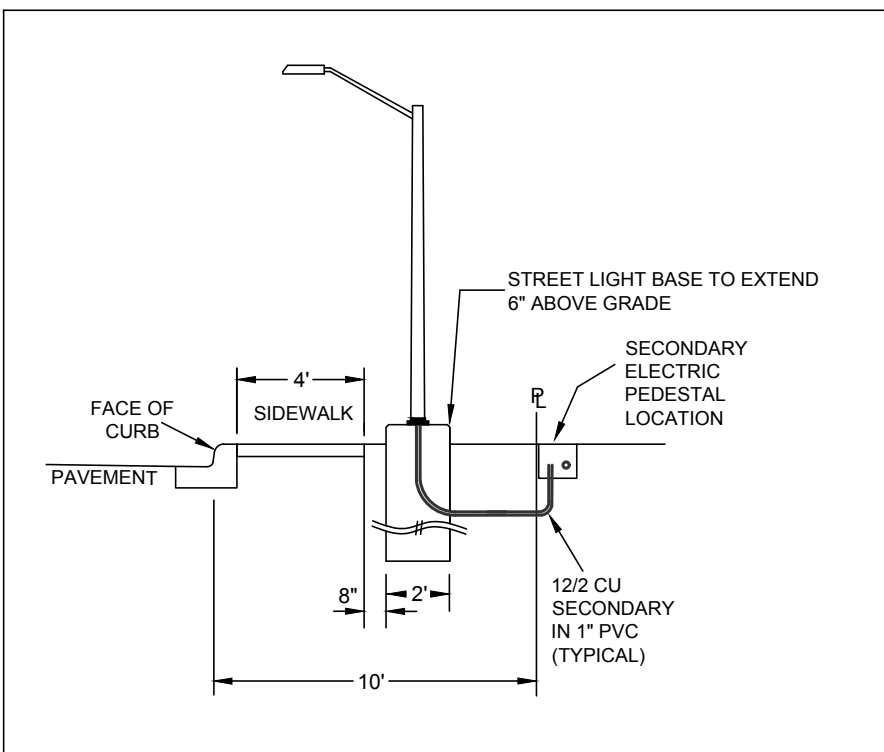
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OWNER/DEVELOPER:
MERITAGE HOMES OF TEXAS, L.L.C.
CONTACT PERSON: TONDA ALEXANDER
2722 WEST BITTERS ROAD, SUITE 200
SAN ANTONIO, TX 78248
TEL: (210) 298-4294

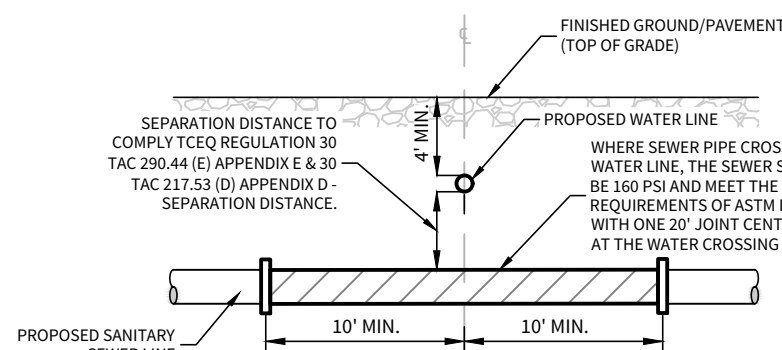
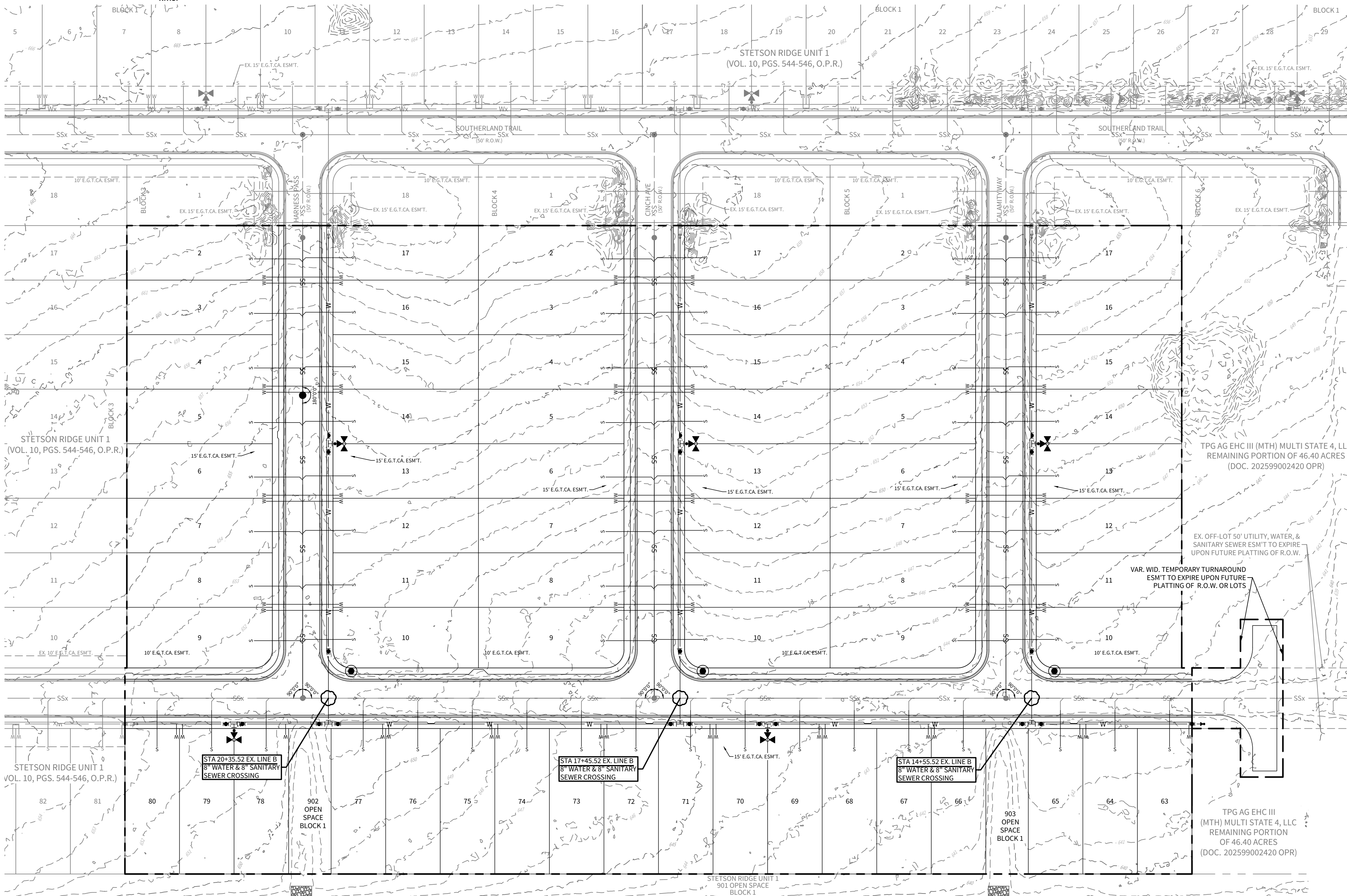
CIVIL ENGINEER:
M.W. CUDE ENGINEERS, L.L.C.
CONTACT PERSON: XAVIER VASQUEZ
4122 POND HILL ROAD, SUITE 101
SAN ANTONIO, TX 78231
TEL: (210) 681-2951
FAX: (210) 523-7112



STREET LIGHT NOTE:
CONT. ----- (-) STREET LIGHTS, USE FLUSH-MOUNT PEDESTALS.

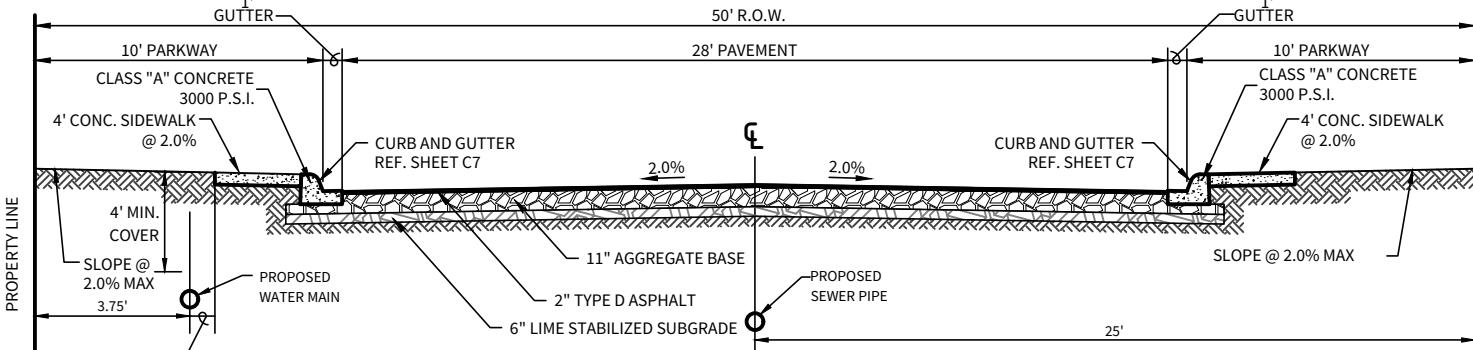
GVEC STREET LIGHT DETAIL

N.T.S.



TYPICAL SANITARY SEWER/ WATER CROSSING DETAIL

N.T.S.



LOCAL 'A' STREET CROSS-SECTION (50' R.O.W.)

N.T.S.

SEWER/WATER LINE CROSSINGS	
LINE	STATION
"EX. B"	14+55.52
"EX. B"	17+45.52
"EX. B"	20+35.52

LEGEND

OVERALL UNIT BOUNDARY	---
PROPOSED LOT LINE	---
PROPOSED RIGHT OF WAY	---
E.G.T.CA. EASEMENT	---
EXISTING 2' CONTOUR	---
EXISTING 10' CONTOUR	---
EXISTING WATER LINE	---
EXISTING SEWER LINE	---
EXISTING MANHOLE	●
PROPOSED WATER LINE	W
PROPOSED WATER SERVICE	W
PROPOSED FIRE HYDRANT	W
PROPOSED SEWER MAIN	SS
PROPOSED SEWER FORCE MAIN	SFM
PROPOSED MANHOLE	●
PROPOSED SEWER SERVICE	W
PROPOSED STREET LIGHT	●

CONTRACTOR SHALL VERIFY THE EXACT LOCATION OF UNDERGROUND UTILITIES AND OTHER UNDERGROUND STRUCTURES WHETHER SHOWN ON THE PLANS OR NOT. CONTRACTOR WILL NOTIFY ALL UTILITY COMPANIES AT LEAST 72 HOURS PRIOR TO EXCAVATION.

CITY OF MARION	(830) 914-2391
GVSD	(830) 914-2330
GVTC	(830) 885-4411
GVEC	1-800-401-8345
DIG TESS	1-800-344-9377
TEXAS STATE WIDE ONE CALL LOCATORS	1-800-545-6005 OR 811

NOTE:

THE CONTRACTOR SHALL BE RESPONSIBLE FOR MEETING 98% COMPACTION ON ALL TRENCH BACKFILL AND PAYING FOR THE TESTS TO BE PERFORMED BY A THIRD PARTY. COMPACTION TEST WILL BE DONE AT ONE LOCATION POINT RANDOMLY SELECTED OR AS INDICATED BY THE GVSD INSPECTOR/TEST ADMINISTRATOR. PER EACH 12-INCH LODGE LIFT PER 400 LINEAR FEET AT A MINIMUM. THIS PROJECT WILL NOT BE ACCEPTED AND FINALIZED BY GVSD WITHOUT THIS REQUIREMENT BEING MET AND VERIFIED BY PROVIDING ALL NECESSARY DOCUMENTED TEST RESULTS.

TRENCH EXCAVATION PROTECTION

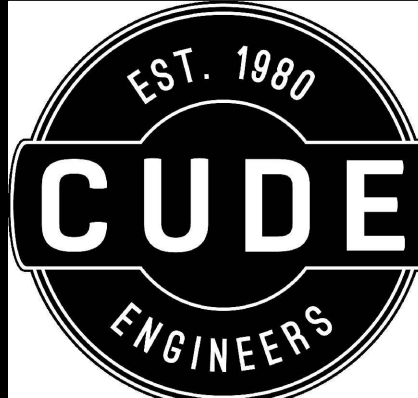
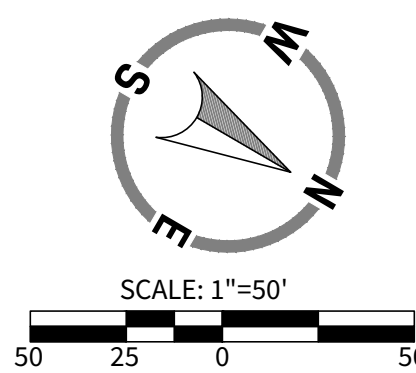
CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR STRUCTURAL DESIGN/GEOTECHNICAL/SAFETY/EQUIPMENT CONSULTANT, IF ANY, SHALL REVIEW THESE PLANS AND AVAILABLE GEOTECHNICAL INFORMATION AND THE ANTICIPATED INSTALLATION SITE(S) WITHIN THE PROJECT WORK AREA IN ORDER TO IMPLEMENT CONTRACTOR'S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

CAUTION!!

EXISTING UTILITIES ARE WITHIN THE LIMITS OF CONSTRUCTION. CONTRACTORS SHALL EXERCISE EXTRA CARE IN DIGGING ANY TRENCH FOR PROPOSED UTILITIES. THE CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE, VERIFY THE EXACT LOCATION & IDENTIFY AREA OF CONFLICTS WITH EXISTING UTILITIES AND SHALL NOTIFY THE ENGINEER IF CONFLICT IS FOUND.

CAUTION!!

THE CONTRACTOR SHALL BE AWARE THAT OVERHEAD ELECTRIC LINES EXIST WITHIN THE VICINITY OF THE SITE. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO HAVE THESE UTILITIES LOCATED PRIOR TO COMMENCING CONSTRUCTION. THE CONTRACTOR SHALL USE EXTREME CAUTION WHEN WORKING IN THIS AREA. ANY DAMAGE DONE TO THESE EXISTING FACILITIES WILL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO REPAIR.



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STETSON RIDGE UNIT 2

UTILITY LAYOUT PLAN

DATE
12/16/2025
PROJECT NO.
04127.005

DRAWN BY
CG/JG/LJ/TC/D
CHECKED BY
XV/JC

REVISIONS

DATE	DESCRIPTION
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CUDE ENGINEERS
TBPE No. 455
TBPLS No. 10048500

C27

[illegible]

SWPPP MODIFICATIONS

DATE	SIGNATURE	DESCRIPTION

- TEMPORARY BEST MANAGEMENT PRACTICES AND MEASURES
SEQUENCE OF INSTALLATION DURING CONSTRUCTION PROCESS:
- STORM WATER MANAGEMENT FACILITIES MUST BE INSTALLED PRIOR TO SITE CONSTRUCTION. SUBD. ORD. 6.01.003
 - THE TEMPORARY CONSTRUCTION ENTRANCE/EXIT (ITEM 2) SHALL BE INSTALLED PRIOR TO DISTURBING ANY SOIL EXCEPT AT THE LOCATION OF THE TEMPORARY CONSTRUCTION ENTRANCE/EXIT. IT SHALL STAY IN PLACE AND BE MAINTAINED UNTIL THE END OF THE INFRASTRUCTURE CONSTRUCTION.
 - SILT FENCE (ITEM 4) SHALL BE INSTALLED ALONG THE DOWN-GRADIENT BOUNDARY OF THE SITE PRIOR TO ANY DISTURBANCE OF THE SITE AS SHOWN ON THE SITE PLAN.
 - BAGGED GRAVEL INLET FILTERS (ITEM 6) SHALL BE PLACED AROUND ALL INLETS FOLLOWING INSTALLATION.
 - ROCK BERMS (ITEM 5) SHALL BE INSTALLED AROUND THE PERIMETER OF THE PROJECT AT NATURAL LOW POINTS FOLLOWING ROUGH GRADING OF THE SITE AND SHALL BE REMOVED ONCE GRADING TO THE ON-SITE STORMWATER DRAINAGE SYSTEM WITH BAGGED GRAVEL INLET FILTERS IN SUMP IS COMPLETE, ROCK BERMS WILL ALSO BE UTILIZED AT THE OUTLET OF THE POND WHILE IT IS BEING CONSTRUCTED.

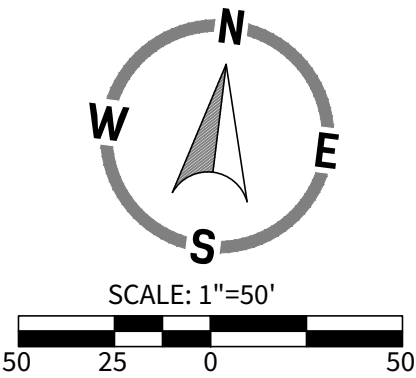
INSPECTIONS:

DESIGNATED AND QUALIFIED PERSON(S) SHALL INSPECT POLLUTION CONTROL MEASURES EVERY SEVEN DAYS AND WITHIN 24 HOURS AFTER A STORM EVENT GREATER THAN 0.5 INCHES OF RAINFALL. AN INSPECTION REPORT THAT SUMMARIZES THE SCOPE OF THE INSPECTION, NAMES AND QUALIFICATIONS OF PERSONNEL CONDUCTING THE INSPECTION, DATE OF THE INSPECTION, MAJOR OBSERVATIONS, AND ACTIONS TAKEN AS A RESULT OF THE INSPECTION SHALL BE RECORDED AND MAINTAINED AS PART OF STORM WATER TPDES DATA FOR A PERIOD OF THREE YEARS AFTER THE DATE OF THE INSPECTION. COPY OF THE INSPECTION REPORT FORM IS PROVIDED IN THIS STORM WATER POLLUTION PREVENTION PLAN.

AS A MINIMUM, THE INSPECTOR SHALL OBSERVE: (1) SIGNIFICANT DISTURBED AREAS FOR EVIDENCE OF EROSION, (2) STORAGE AREAS FOR EVIDENCE OF LEAKAGE FROM THE EXPOSED STORED MATERIALS, (3) STRUCTURAL CONTROLS (ROCK BERM OUTLETS, SILT FENCES, DRAINAGE SWALES, ETC.) FOR EVIDENCE OF FAILURE OR EXCESS SILTATION (OVER 6 INCHES DEEP), (4) VEHICLE EXIT POINT FOR EVIDENCE OF OFF-SITE SEDIMENT TRACKING, (5) VEHICLE STORAGE AREAS FOR SIGNS OF LEAKING EQUIPMENT OR SPILLS, AND (6) CONCRETE TRUCK RINSE-OUT PIT FOR SIGNS OF POTENTIAL FAILURE. DEFICIENCIES NOTED DURING THE INSPECTION WILL BE CORRECTED AND DOCUMENTED WITHIN SEVEN (7) CALENDAR DAYS FOLLOWING THE INSPECTION OR BEFORE THE NEXT ANTICIPATED STORM EVENT IF PRACTICABLE.

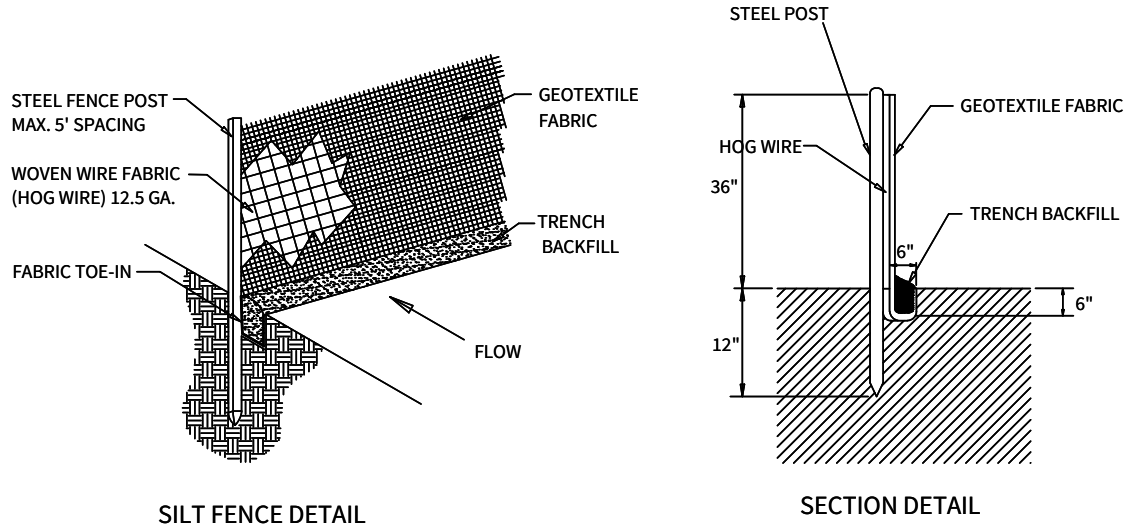
NOTES

- ALL SILT FENCES AND/OR ROCK BERMS AND TEMPORARY CONSTRUCTION ENTRANCES/EXITS SHALL BE PLACED AT THE MOST DOWN-GRADIENT POINT OF CONSTRUCTION AS SHOWN ON THIS SITE PLAN. CONTRACTOR SHALL TAKE INTO CONSIDERATION ANY PROPOSED CONSTRUCTION THAT MAY TAKE PLACE AT THESE LOCATIONS. ANY RELOCATION OF THE SILT FENCE, ROCK BERMS AND/OR TEMPORARY CONSTRUCTION ENTRANCES/EXITS SHALL BE AT THE CONTRACTOR'S EXPENSE.
- AREA OF SOIL DISTURBANCES INCLUDE STREET RIGHT-OF-WAYS, EASEMENTS AND LOTS.
- THE CONTRACTOR IS REQUIRED TO MAINTAIN EROSION CONTROLS THROUGHOUT THE DURATION OF THE PROJECT.
- THE CITY AND/OR COUNTY INSPECTOR HAS THE AUTHORITY TO HAVE THE CONTRACTOR MODIFY THE EROSION CONTROLS AT THE DEVELOPER'S EXPENSE. THE DEVELOPER SHALL BE NOTIFIED OF THESE MODIFICATIONS PRIOR TO COMMENCEMENT OF MODIFICATIONS.



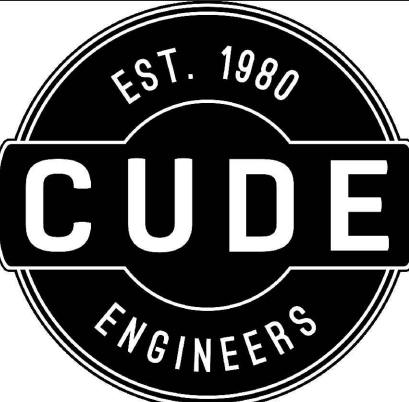
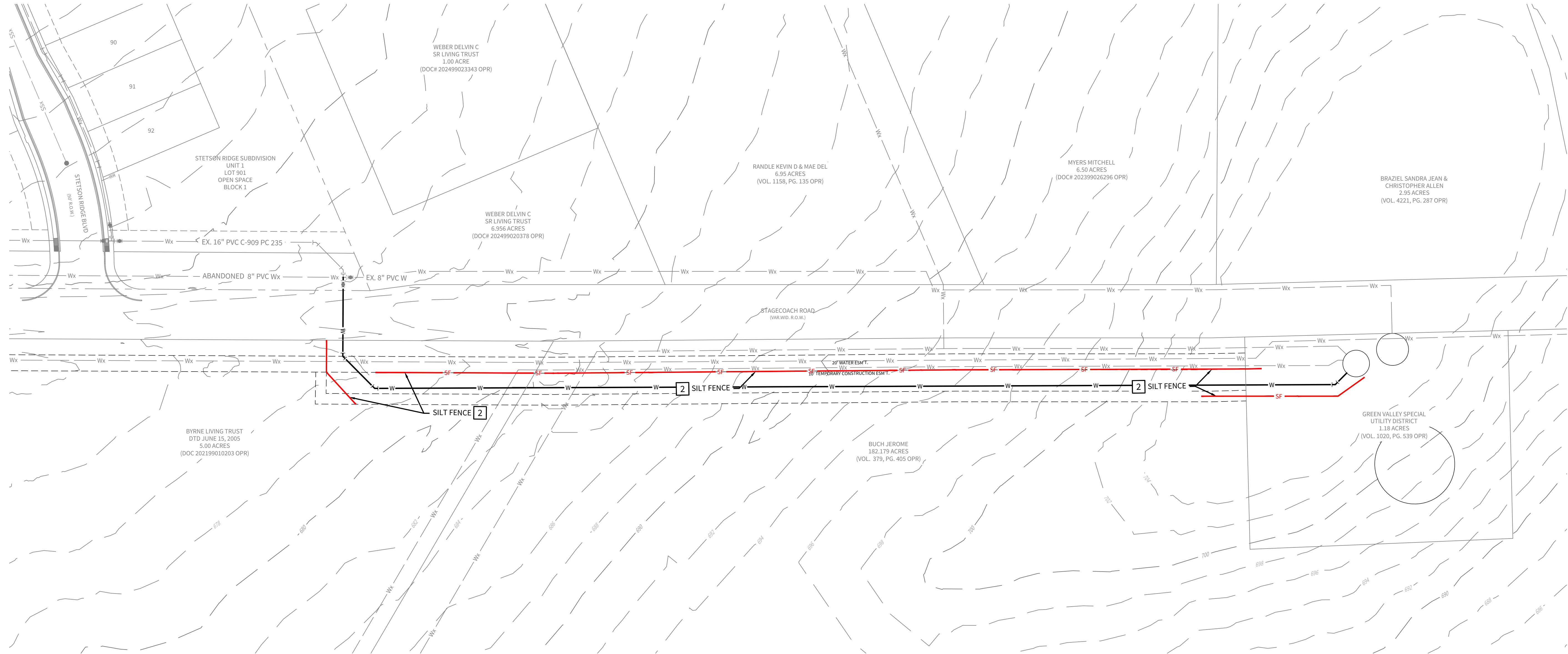
LEGEND

- OVERALL UNIT BOUNDARY --- -- -- --
- PROPOSED LOT LINE _____
- PROPOSED RIGHT OF WAY _____
- E.G.T.CA. EASEMENT _____
- EXISTING 2' CONTOUR --- XXX ---
- EXISTING 10' CONTOUR --- XXX ---
- PROPOSED 1' CONTOUR --- (XXX) ---
- PROPOSED 5' CONTOUR --- (XXX) ---
- BMP ITEM NUMBER **1**
- PROPOSED SILT FENCE --- SF ---



2 STANDARD SILT FENCE

N.T.S.
NOTE: DOTTED LINE PLACE INSTALL SILT FENCE AT BACK OF CURB, PLACE POSITION 3' BEHIND CURB WITH AN EROSION CONTROL BLANKET OR SODDING BETWEEN THE SILT FENCE AND THE CURB TO PREVENT WATER INTRUSION INTO EXPENSIVE SOIL. SUBGRADE PRIOR TO FINAL ESTABLISHMENT OF LOT VEGETATION.



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STETSON RIDGE
UNIT 2

OFFSITE STORM WATER POLLUTION PREVENTION PLAN

DATE

12/16/2025
PROJECT NO.
04127.005

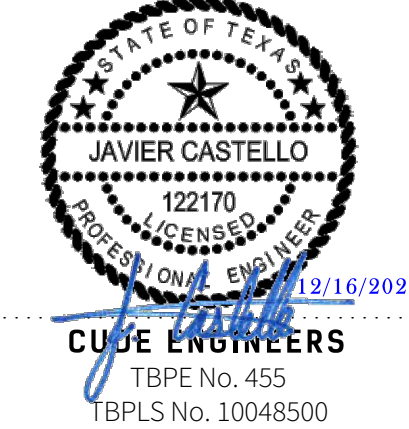
DRAWN BY
CG/JG/LJ/TC/D

CHECKED BY
XV/JC

REVISIONS

DATE

1 2 3 4 5 6 7 8 9



CUDE ENGINEERS
TBPE No. 455
TBPLS No. 10048500

C29