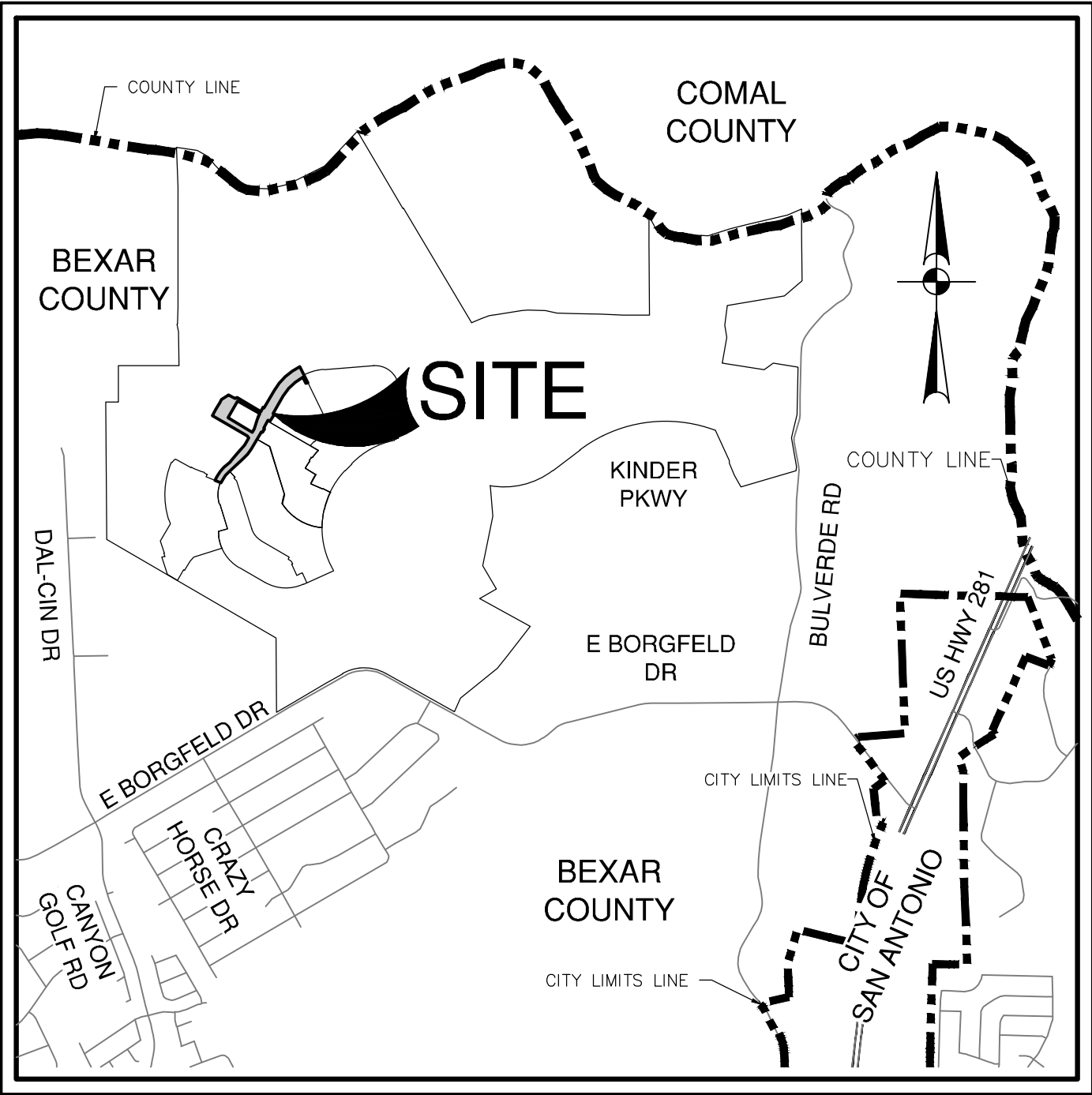


KINDER SUNDAY CREEK - PHASE I

SAN ANTONIO, TEXAS

CIVIL CONSTRUCTION PLANS

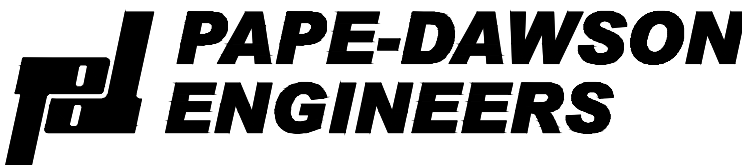


LOCATION MAP
NOT-TO-SCALE

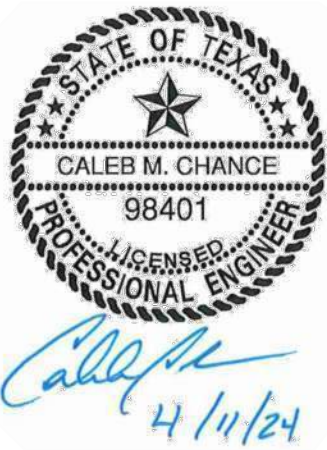
PREPARED FOR:

SA KINDER WEST SUNDAY CREEK
11 LYNN BATTS LANE, SUITE 100
SAN ANTONIO, TEXAS 78218

MARCH 2024



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



Sheet List Table

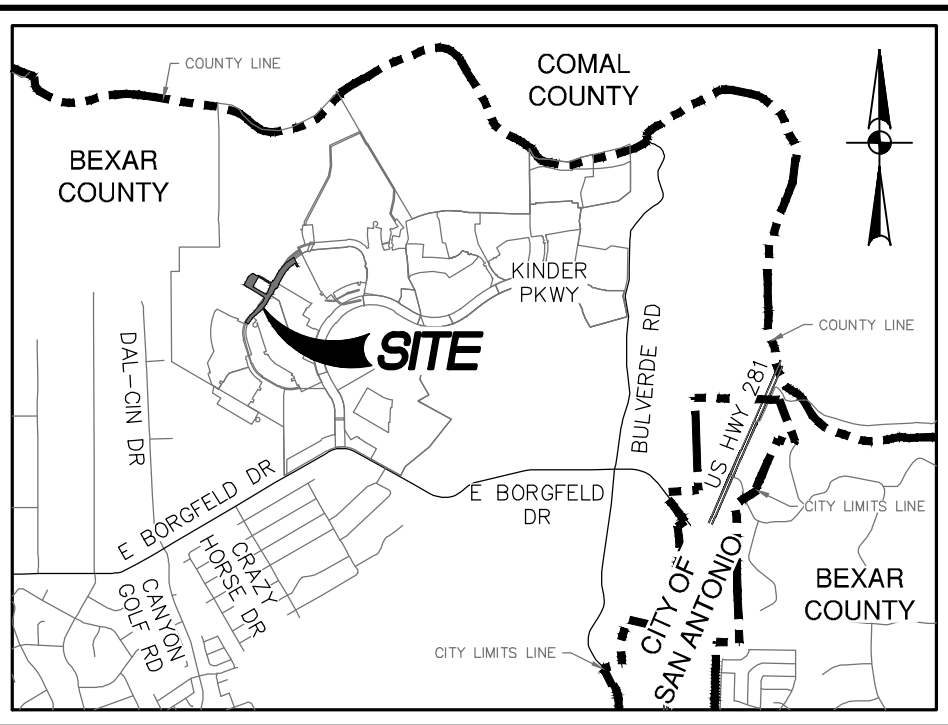
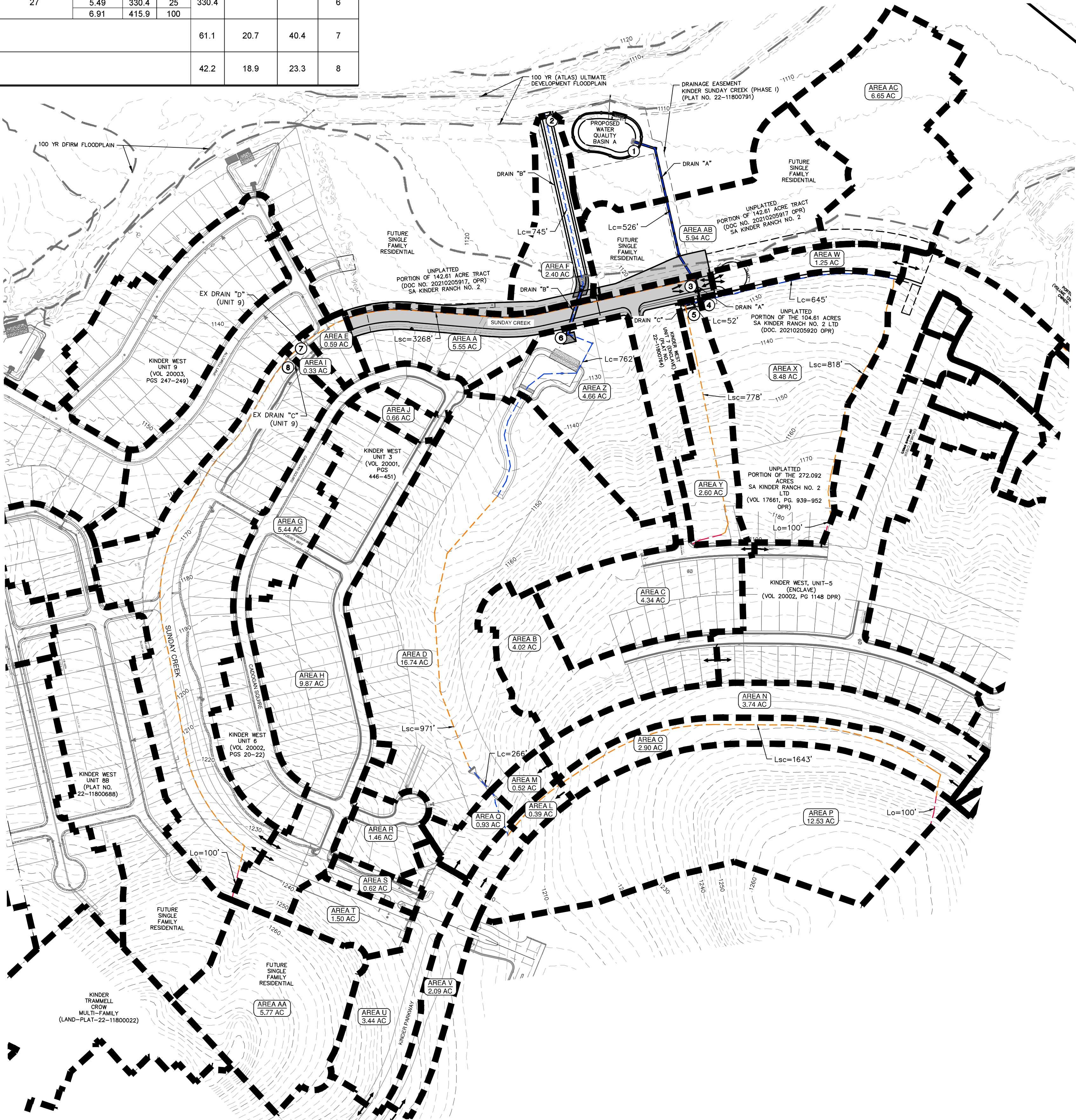
Sheet Description	Sheet Number
COVER SHEET	C0.00
MASTER DRAINAGE PLAN	C1.00
DRAIN "A" PLAN & PROFILE	C1.01
DRAIN "A" & "C" PLAN & PROFILE	C1.02
DRAIN "B" PLAN & PROFILE	C1.03
DRAIN "B" PLAN & PROFILE	C1.04
DRAINAGE DETAILS	C1.10
DRAINAGE DETAILS	C1.11
DRAINAGE DETAILS	C1.12
DRAINAGE DETAILS	C1.13
SUNDAY CREEK PLAN & PROFILE	C2.00
SUNDAY CREEK PLAN & PROFILE	C2.01
STREET DETAILS	C2.10
STREET DETAILS	C2.11
STREET DETAILS	C2.12
OVERALL SIGNAGE PLAN	C3.00
SIGNAGE DETAILS	C3.10
SIGNAGE DETAILS	C3.11
OVERALL WATER DISTRIBUTION PLAN	C4.00
WATER DISTRIBUTION PLAN DETAILS	C4.10
WATER DISTRIBUTION PLAN NOTES	C4.11
OVERALL UTILITY PLAN	C5.00
STORMWATER POLLUTION PREVENTION PLAN	C7.00
STORM WATER POLLUTION PREVENTION PLAN DETAILS	C7.10

WATER (SAWS PRESSURE ZONE 1400 HGL)

DEVELOPER'S NAME:	SA KINDER RANCH NO. 2, LTD.
ADDRESS:	11 LYNN BATTS LANE, SUITE 100
CITY:	SAN ANTONIO
STATE:	TEXAS
ZIP:	78218
PHONE#	(210) 828-6131
FAX#	
SAWS BLOCK MAP#	166688 TOTAL EDU'S 1 TOTAL ACREAGE 8.243
TOTAL LINEAR FOOTAGE OF PIPE	18'-180 LF PLAT NO. 22-11800791
NUMBER OF LOTS	0
SAWS JOB NO.	24-1039

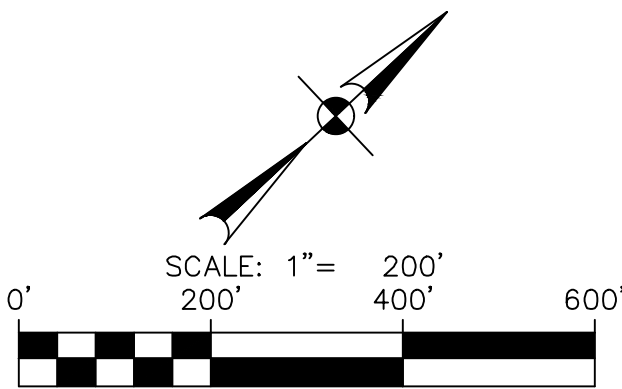
SHEET C0.00

POINT	STRUCTURE	WATERSHED	TOTAL AREA (ACRES)	COMPOSITE C VALUE	OVERLAND FLOW		SHALLOW		CHANNEL FLOW (6 FPS)		TIME OF CONCENTRATION	A14 INTENSITY (PA-1)	FLOW Q	FREQ	CURB INLET/DISCHARGE			POINT				
					LENGTH	TRAVEL TIME	LENGTH	TRAVEL TIME	LENGTH	TRAVEL TIME					Q ₂₅ TOTAL	Q ₂₅ INTERCEPT	Q ₂₅ BYPASS					
																			FEET	MINUTES	FEET	MINUTES
1	PIPE FLOW	A,E,I,K,X,Y	28.99	0.72	100	8.7	3268	17.7	526	1.5	28	3.87	80.8	5	112.5			1				
2	EARTHEN CHANNEL (DRAIN B)	B,C,D,F,G,H,J,L,M,N,O,P,Q,R,S,T,U,V,Z,AA	85.99	0.72	100	8.5	2614	15.5	1773	4.9	29	5.39	112.5	25					327.5			2
												6.78	141.5	100								
												3.81	235.9	5								
												5.29	327.5	25								
												6.66	412.3	100								
3	2-CURB INLETS IN SUMP (15')	A,E,I,K	17.91	0.71	100	8.7	3268	17.7	0	0.0	26	4.02	51.1	5	31.5	31.5	0.0	3				
4	4-WAY INLET (AMENITY)	X,Y	11.08	0.72	100	9.7	818	3.0	645	1.8	14	5.59	71.1	25					61.7	61.7	0.0	4
												7.04	89.5	100								
												5.51	44.0	5								
												7.73	61.7	25								
												9.81	78.3	100								
5	INTERCEPTOR CHANNEL (SOUTH) (DRAIN C)	Y	2.60	0.72	100	12.6	778	2.9	52	0.1	16	5.14	9.6	5	13.4			5				
6	1 ~ 9' X 4' SBC	B,C,D,G,H,J,L,M,N,O,P,Q,R,S,T,U,V,Z,AA	83.59	0.72	100	8.5	2614	15.50	1028	2.9	27	7.18	13.4	25					330.4			6
												9.10	17.0	100								
												3.94	237.1	5								
												5.49	330.4	25								
												6.91	415.9	100								
7	2 - 20' CURB INLETS ON GRADE		KINDER WEST UNIT 8B CALC POINT 1													61.1	20.7	40.4	7			
8	2 - 20' CURB INLETS ON GRADE		KINDER WEST UNIT 8B CALC POINT 11													42.2	18.9	23.3	8			



LOCATION MAP

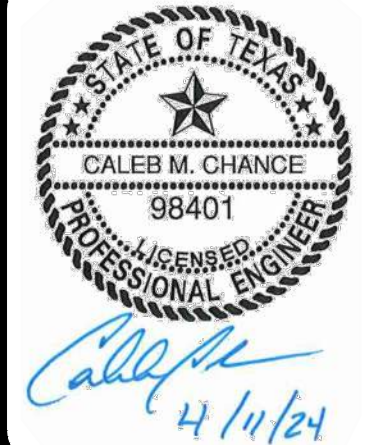
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MASTER DRAINAGE LEGEND

- PROJECT LIMITS
- EXISTING CONTOUR
- RUNOFF FLOW PATH
- 100 YR DFIRM FLOODPLAIN
- 100 YR (ATLAS) ULTIMATE DEVELOPMENT FLOODPLAIN
- DRAINAGE AREA BOUNDARY
- FHA LOT GRADING TYPE
- PROPOSED DIRECTION OF FLOW
- DRAINAGE CALCULATION POINT
- DRAINAGE AREA

NO.	REVISION	DATE



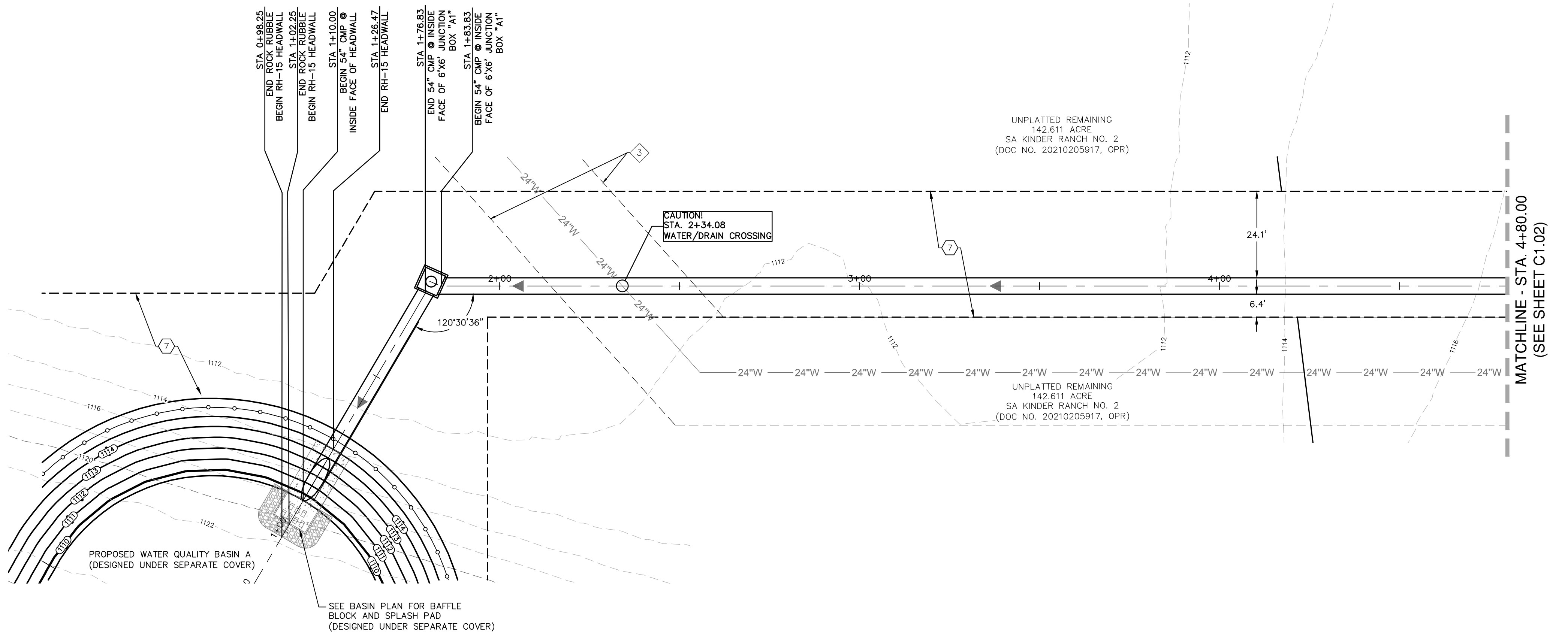
PAPE-DAWSON ENGINEERS
SAN ANTONIO | AUSTIN | HOUSTON | FORT WORTH | DALLAS
2000 HW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000
TEXAS ENGINEERING FIRM #470 | TEXAS SURVEYING FIRM #10088600

KINDER SUNDAY CREEK - PHASE I
SAN ANTONIO, TEXAS
MASTER DRAINAGE PLAN

PLAT NO.	22-11800791
JOB NO.	8802-59
DATE	MARCH 2024
DESIGNER	UV
CHECKED	AS
DRAWN	RD
SHEET	C1.00

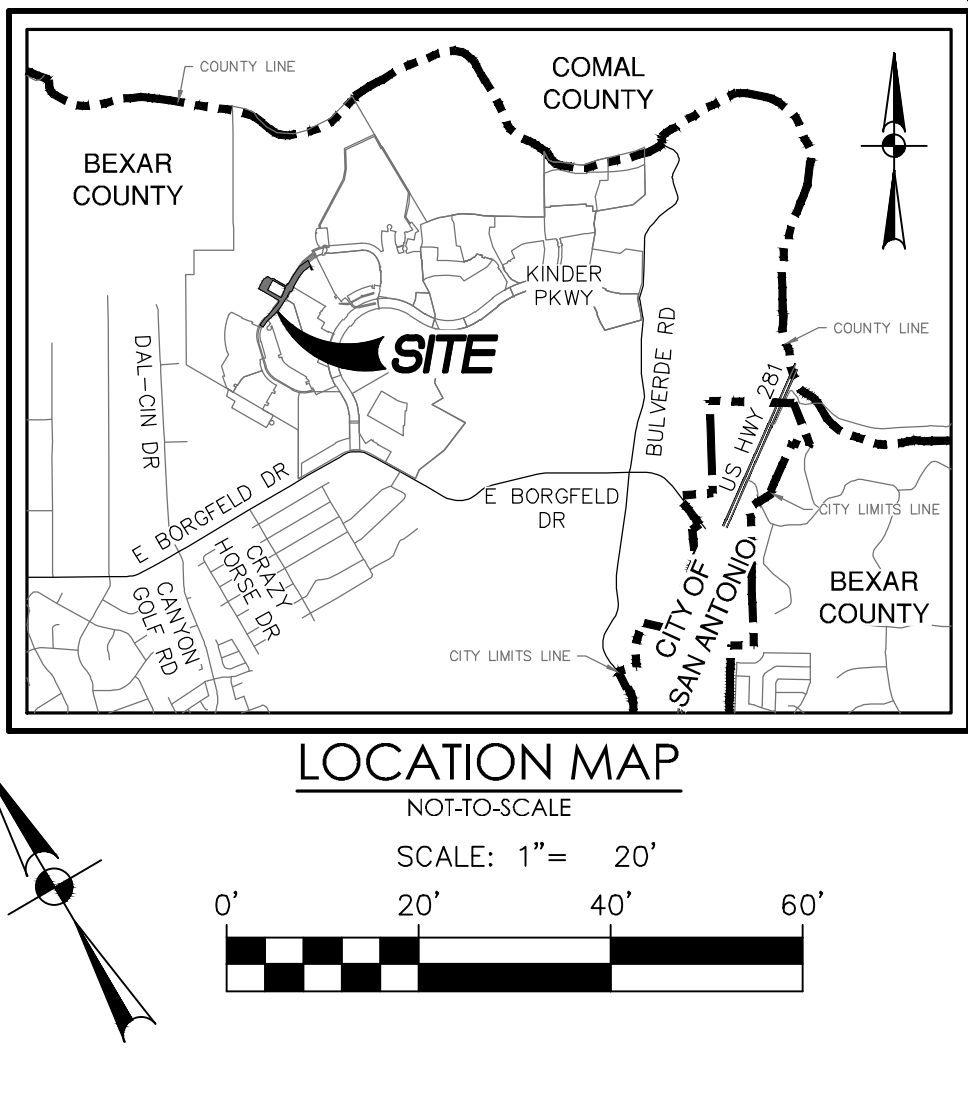
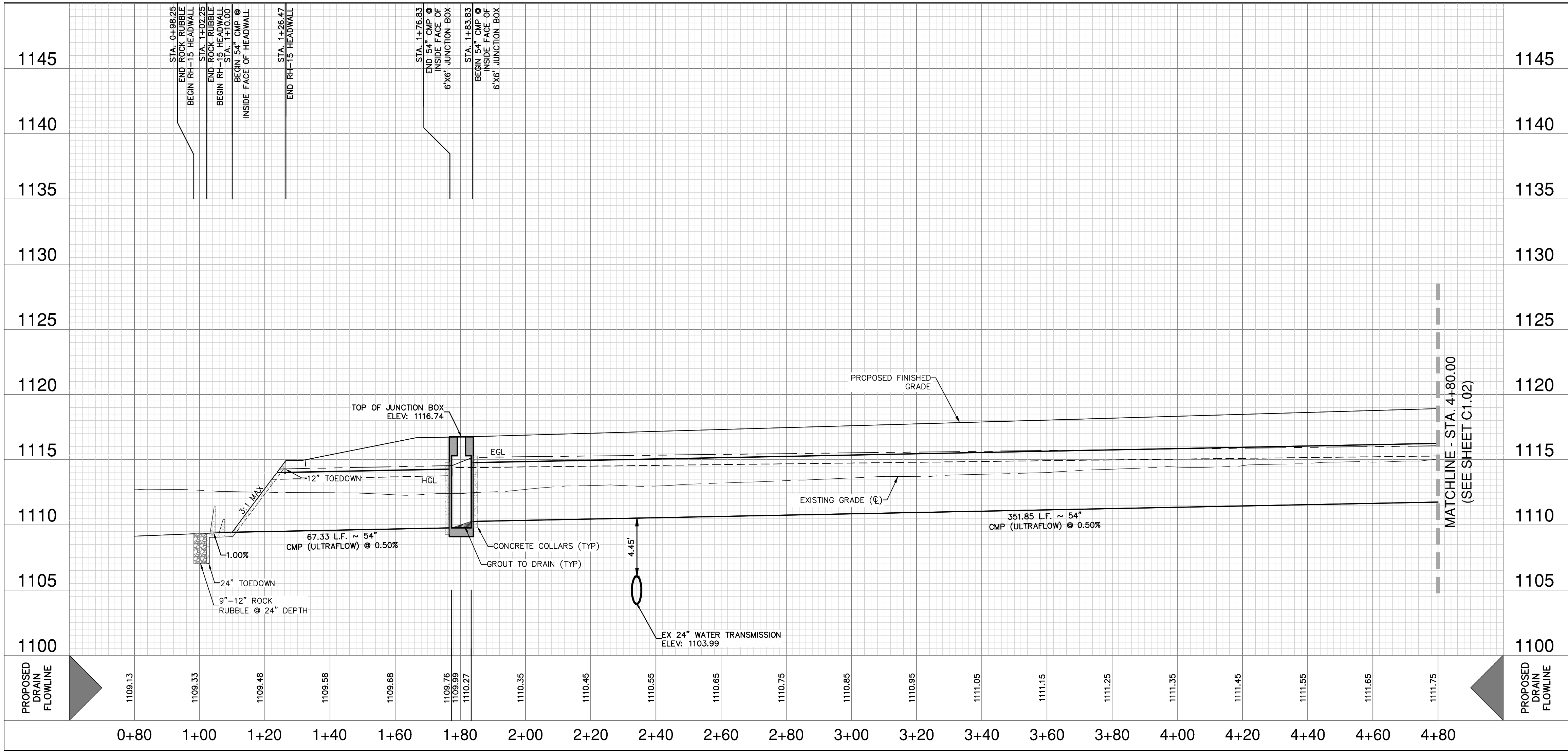
HYDRAULIC CALCULATIONS 54" CMP	
STA. 1+10.00 TO 1+76.83	
Q25 =	112.50
Dn =	3.07
S =	0.50%
V =	7.07
n =	0.013
D =	4.5 FT
Sf =	0.30%
V AFTER ROCK RUBBLE=1.72 FPS	

HYDRAULIC CALCULATIONS 54" CMP	
STA. 1+83.83 TO 5+35.08	
Q25 =	112.50
Dn =	3.07
S =	0.50%
V =	7.07
n =	0.013
D =	4.5 FT
Sf =	0.30%



DRAIN "A"
STA. 0+98.25 TO 4+80.00

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



DRAINAGE LEGEND	
PROJECT LIMITS	---
100 YR FLOODPLAIN	---
EXISTING CONTOUR	---
PROPOSED CONTOUR	---
PROPOSED WATER	---
PROPOSED SEWER	---
PROPOSED STORM DRAIN	---
EXISTING STORM DRAIN	---
FLOW ARROW	---

- KEYED NOTES:**
- ① VARIABLE WIDTH WATER EASEMENT (VOL. 18673, PG. 1851, OPR)
 - ② VARIABLE WIDTH DRAINAGE EASEMENT (PERMEABLE) (OFF LOT) (2.685 OF AN ACRE)

- DRAINAGE & GRADING NOTES:**
- THE CONTRACTOR WILL BE RESPONSIBLE FOR DETERMINING EXACT LOCATION OF ALL UTILITIES AND DRAINAGE STRUCTURES WHETHER SHOWN ON THE PLANS OR NOT. THE CONTRACTOR SHALL UNCOVER EXISTING UTILITIES PRIOR TO CONSTRUCTION TO VERIFY SIZE, GRADE, AND LOCATION. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY OF ANY DEVIATIONS FROM PLANS PRIOR TO BEGINNING CONSTRUCTION. ANY DAMAGE TO EXISTING UTILITIES, WHETHER SHOWN ON THE PLANS OR NOT, SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO REPAIR, AT HIS EXPENSE.
 - ALL CONCRETE FOR TxDOT DRAINAGE STRUCTURES SHALL MEET TxDOT SPECIFICATIONS. ALL OTHER CONCRETE SHALL BE CLASS "A" 3000 PSI CYLINDER STRENGTH IN 28 DAYS.
 - REFERENCE DRAINAGE DETAILS FOR PIPE TRENCH DETAILS, BOX CULVERT, HEADWALL, AND WINGWALL CONSTRUCTION DETAILS, AND BOX CULVERT BEDDING AND EXCAVATION LIMITS.
 - CONTRACTOR SHALL GROUT ALL CURB INLETS AND JUNCTION BOXES TO PROVIDE FOR POSITIVE DRAINAGE.
 - EARTHEN CHANNELS WILL BE VEGETATED BY SEEDING OR SODDING. 55% OF THE CHANNEL SURFACE MUST HAVE ESTABLISHED VEGETATION BEFORE THE CITY OF SAN ANTONIO WILL ACCEPT.
 - CONTRACTOR SHALL MATCH TOP OF CHANNEL TO NATURAL GROUND AND MAINTAIN A MINIMUM CHANNEL DEPTH OF "D" AS SHOWN IN THE PROFILE.

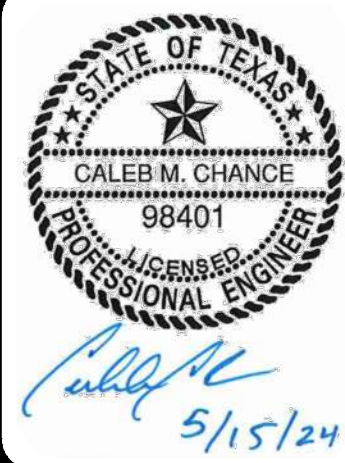
TRENCH EXCAVATION SAFETY PROTECTION:

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

CAUTION!!

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

NO. REVISION	
DATE	



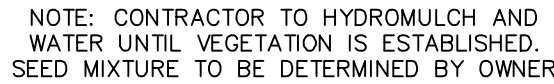
PAPE-DAWSON ENGINEERS

SAN ANTONIO | AUSTIN | HOUSTON | FORT WORTH | DALLAS
2000 HW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000
TEXAS ENGINEERING FIRM #470 | TEXAS SURVEYING FIRM #1008860

KINDER SUNDAY CREEK - PHASE I
SAN ANTONIO, TEXAS

DRAIN "A" PLAN & PROFILE
STA 0+98.25 TO STA 4+80.00

PLAT NO.	22-11800791
JOB NO.	8802-59
DATE	MARCH 2024
DESIGNER	JUV
CHECKED	AS DRAWN RD
SHEET	C1.01

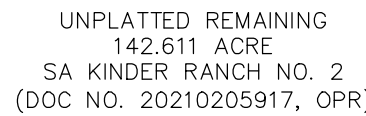


SECTION "A-A"

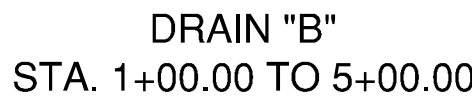
NOT-TO-SCALE
STA 1+10.00 TO STA 6+47.06

HYDRAULIC
CALCULATIONS
EARTHEN CHANNEL
STA. 1+00.00 TO 6+47.00

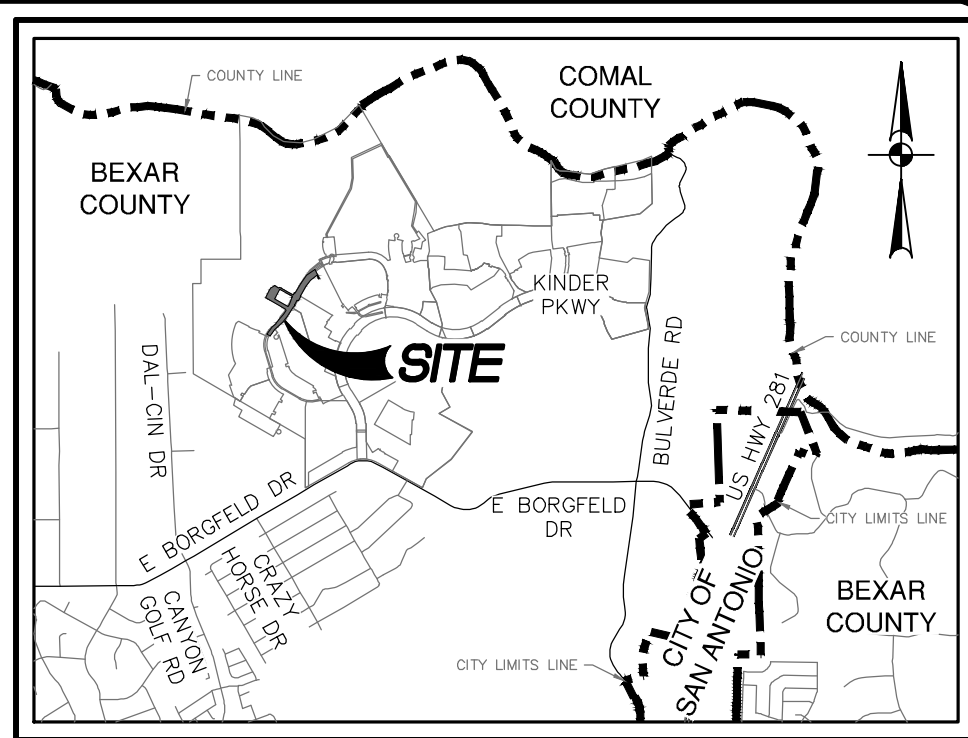
Q25 = 330.40
Bw = 24.0
dn = 1.98
S = 0.90%
V = 5.57
n = 0.035
D = 2.5 FT



UNPLATTED REMAINING
142.611 ACRE
SA KINDER RANCH NO. 2
(DOC NO. 20210205917, OPR

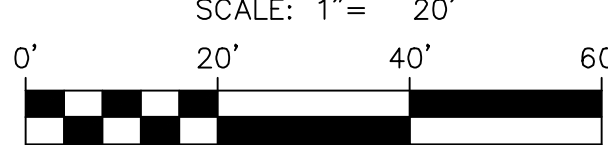


VERTICAL SCALE: 1" = 5'
HORIZONTAL SCALE: 1" = 20'



LOCATION MAP

— — — — —



PROJECT LIMITS

100 YR FLOODPLAIN

EXISTING CONTOUR

PROPOSED CONTOUR

PROPOSED WATER

PROPOSED SEWER

PROPOSED STORM DRAIN

EXISTING STORM DRAIN

FLOW ARROW

690

W

SS

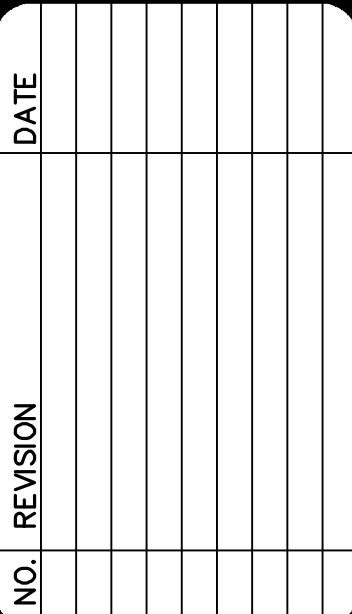
The diagram illustrates the proposed storm drain installation. It shows the project limits, 100-year floodplain, existing and proposed contours, proposed water and sewer lines, and the proposed storm drain. The existing storm drain is shown as a dashed line, and the proposed storm drain is shown as a solid line. A flow arrow indicates the direction of water flow. The proposed storm drain is shown with a manhole and a catch basin. The existing storm drain is shown with a manhole and a catch basin. The proposed storm drain is shown with a manhole and a catch basin. The existing storm drain is shown with a manhole and a catch basin. The proposed storm drain is shown with a manhole and a catch basin.

- 3 VARIABLE WIDTH WATER EASEMENT
(VOL 18673, PG 1851, OPR)
- 10 16' SANITARY SEWER EASEMENT
KINDER WEST, UNIT-3 [ENCLAVE]
(VOL 20001, PGS 446-451, DPR)
- 19 VARIABLE WIDTH ELECTRIC EASEMENT
(OFF-LOT) (0.86 OF AN ACRE)
KINDER WEST, UNIT-3 [ENCLAVE]
(VOL 20001, PGS 446-451, DPR)
- 7 VARIABLE WIDTH DRAINAGE
EASEMENT (PERMEABLE)
(OFF LOT) (2.885 OF AN ACRE)

1. THE CONTRACTOR WILL BE RESPONSIBLE FOR DETERMINING EXACT LOCATION OF ALL UTILITIES AND DRAINAGE STRUCTURES WHETHER SHOWN ON THE PLANS OR NOT. THE CONTRACTOR SHALL UNCOVER EXISTING UTILITIES PRIOR TO CONSTRUCTION TO VERIFY SIZE, GRADE AND LOCATION. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY OF ANY DEVIATIONS FROM PLANS PRIOR TO BEGINNING CONSTRUCTION. ANY DAMAGE TO EXISTING UTILITIES, WHETHER SHOWN ON THE PLANS OR NOT, SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO REPAIR, AT HIS EXPENSE.
2. ALL CONCRETE FOR TxDOT DRAINAGE STRUCTURES SHALL MEET TxDOT SPECIFICATIONS. ALL OTHER CONCRETE SHALL BE CLASS "A" 3000 PSI CYLINDER STRENGTH IN 28 DAYS.
3. REFERENCE DRAINAGE DETAILS FOR PIPE TRENCH DETAILS, BOX CULVERT, HEADWALL, AND WINGWALL CONSTRUCTION DETAILS, AND BOX CULVERT BEDDING AND EXCAVATION LIMITS.
4. CONTRACTOR SHALL GROUT ALL CURB INLETS AND JUNCTION BOXES TO PROVIDE FOR POSITIVE DRAINAGE.
5. EARTHEN CHANNELS WILL BE VEGETATED BY SEEDING OR SODDING. APPROX. 50% OF CITY OF SAN ANTONIO HAS ESTABLISHED VEGETATION BEFORE THE CITY OF SAN ANTONIO WILL ACCEPT.
6. CONTRACTOR SHALL MATCH TOP OF CHANNEL TO NATURAL GROUND AND MAINTAIN A MINIMUM CHANNEL DEPTH OF "D" AS SHOWN IN THE PROFILE.

CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR STRUCTURAL DESIGN/ GEOTECHNICAL/ SAFETY/EQUIPMENT CONSULTANT IF ANY, SHALL REVIEW THESE PLANS AND ANY AVAILABLE GEOTECHNICAL INFORMATION AND/OR RECORDS AND/OR DATA AND/OR INFORMATION AND/OR 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 BE IN ACCORDANCE WITH THE TRENCH SAFETY PROTECTION THAT COMPLY WITH AS A MINIMUM, OSHA STANDARDS FOR TRENCH EXCAVATIONS. SPECIFICALLY CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR SAFETY/EQUIPMENT CONSULTANT SHALL IMPLEMENT TRENCH SAFETY PROGRAM IN ACCORDANCE WITH OSHA STANDARDS DURING THE PRESENCE OF ACTIVITIES OF INDIVIDUALS WORKING IN AND AROUND TRENCH EXCAVATION.

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



**PAPE-DAWSON
ENGINEERS**

SAN ANTONIO | AUSTIN | HOUSTON | FORT WORTH | DALLAS
2000 NW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000
TEXAS ENGINEERING FIRM #470 | TEXAS SURVEYING FIRM #10028800

KINDER SUNDAY CREEK - PHASE I
SAN ANTONIO, TEXAS

SAN ANTONIO, TEXAS

DRAIN "B" PLAN & PROFILE

STA 1+00 TO 5+00

PLAT NO. 22-11800791
 JOB NO. 8802-59
 DATE MARCH 2024
 DESIGNER UV
 CHECKED AS DRAWN RD
 SHEET C1.03

**HYDRAULIC
CALCULATIONS**
STORM DRAIN "B"

STA. 7+13.18 TO 8+43.99

Q25 = 330.40

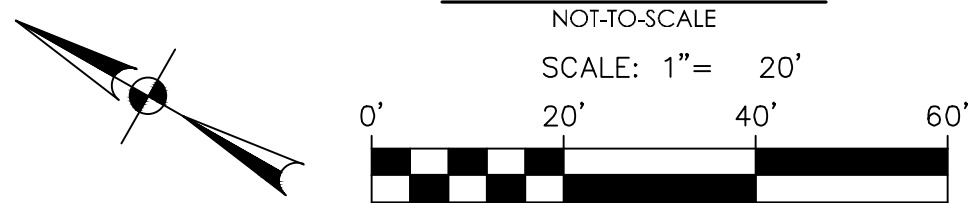
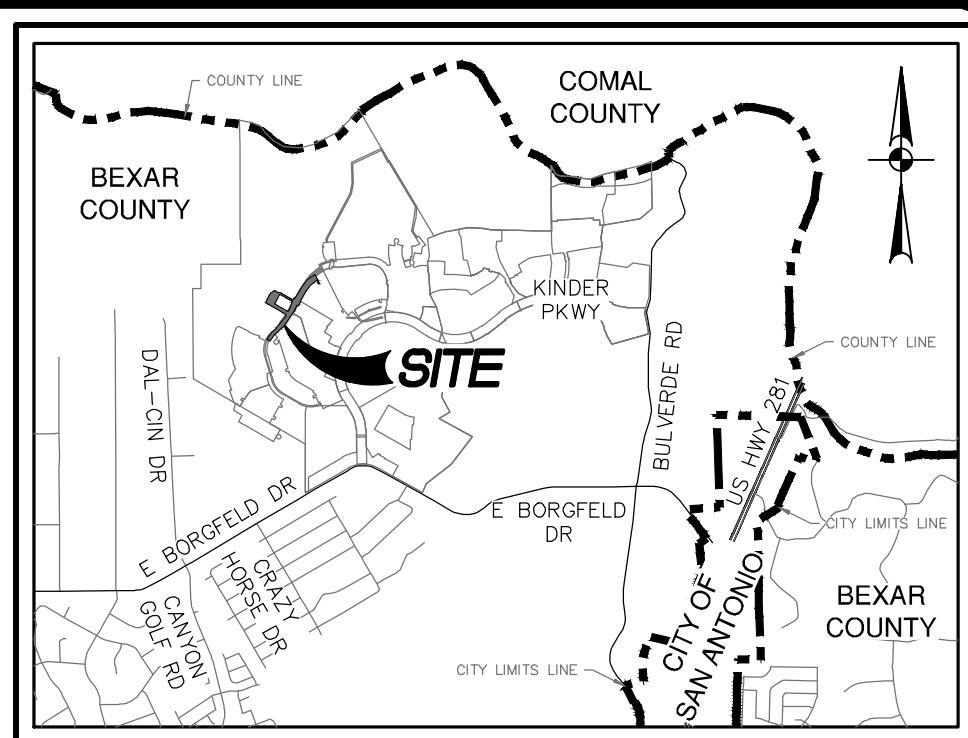
Dn = 3.32

S = 0.40%

V = 11.06

n = 0.013

V AFTER ROCK RUBBLE=1.85 FPS



PROJECT LIMITS

100 YR FLOODPLAIN

EXISTING CONTOUR

PROPOSED CONTOUR

PROPOSED WATER

PROPOSED SEWER

PROPOSED STORM DRAIN

EXISTING STORM DRAIN

FLOW ARROW

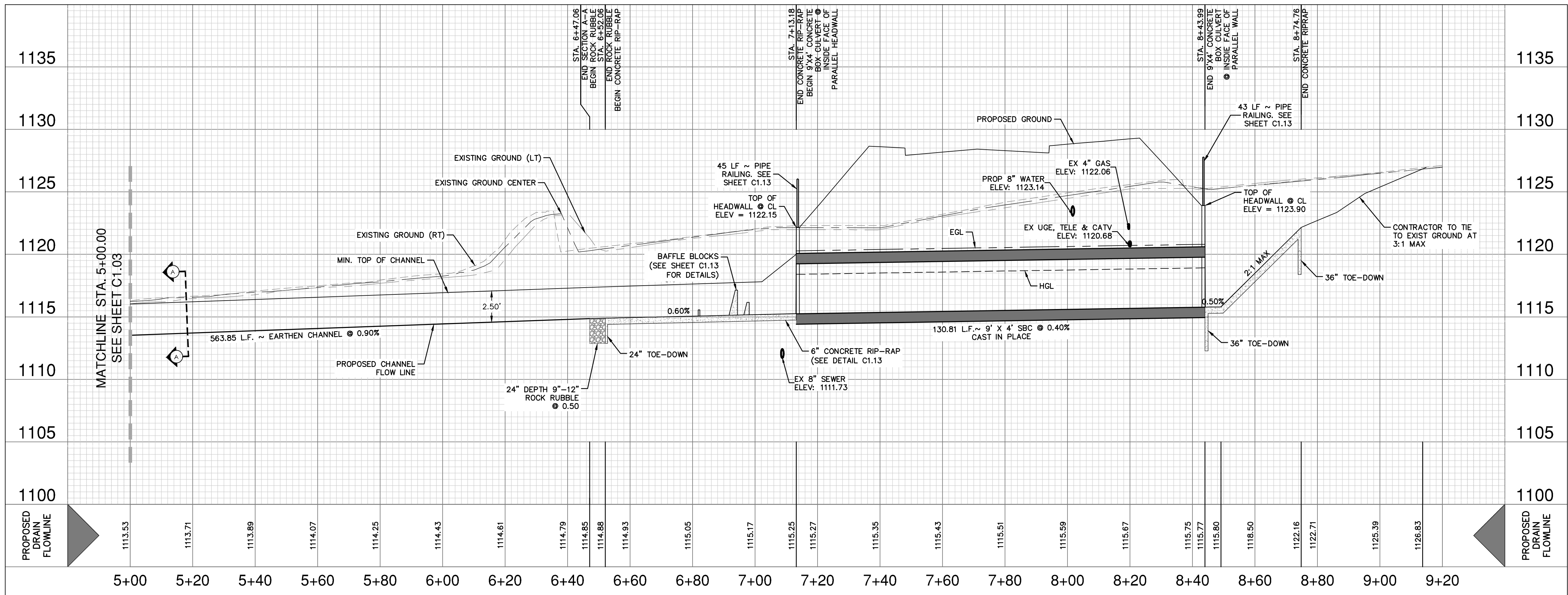
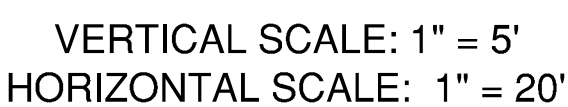
The diagram illustrates the proposed storm drain installation. It shows the project limits, 100-year floodplain, existing and proposed contours, and the locations of proposed water, sewer, and storm drain lines. A flow arrow indicates the direction of water flow.

3 VARIABLE WIDTH WATER EASEMENT
(VOL 18673, PG 1851, OPR)

10 16' SANITARY SEWER EASEMENT
KINDER WEST, UNIT-3 (ENCLAVE)
(VOL 20001, PGS 446-451, DPR)

19 VARIABLE WIDTH ELECTRIC EASEMENT
(OFF-LOT) (0.86 OF AN ACRE)
KINDER WEST, UNIT-3 (ENCLAVE)
(VOL 20001, PGS 446-451, DPR)

7 VARIABLE WIDTH DRAINAGE
EASEMENT (PERMEABLE)
(OFF LOT) (2.685 OF AN ACRE)



1. THE CONTRACTOR WILL BE RESPONSIBLE FOR DETERMINING EXACT LOCATION OF ALL UTILITIES AND DRAINAGE STRUCTURES WHETHER SHOWN ON THE PLANS OR NOT. THE CONTRACTOR SHALL UNCOVER EXISTING UTILITIES AND DRAINAGE STRUCTURE TO VERIFY SIZE, GRADE, AND LOCATION. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY OF ANY DEVIATIONS FROM PLANS PRIOR TO BEGINNING CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL UTILITIES AND DRAINAGE STRUCTURES. THE CONTRACTOR SHALL BE RESPONSIBLE TO REPAIR, AT HIS EXPENSE.
2. ALL CONCRETE FOR TxDOT DRAINAGE STRUCTURES SHALL MEET TxDOT SPECIFICATIONS. ALL OTHER CONCRETE SHALL BE CLASS "A" 3000 PSI CYLINDER STRENGTH IN 28 DAYS.
3. REFERENCE DRAINAGE DETAILS FOR PIPE TRENCH DETAILS, BOX CULVERT, HEADWALL, AND WINGWALL CONSTRUCTION DETAILS, AND BOX CULVERT BEDDING AND EXCAVATION LIMITS.
4. CONTRACTOR SHALL GROUT ALL CURB INLETS AND JUNCTION BOXES TO PROVIDE FOR POSITIVE DRAINAGE.
5. EARTHEN CHANNELS WILL BE VEGETATED BY SEEDING OR SODDING. 80% OF THE CHANNEL SURFACE MUST HAVE ESTABLISHED VEGETATION BEFORE THE CITY OF SAN ANTONIO WILL ACCEPT.
6. CONTRACTOR SHALL MAINTAIN TOP OF CHANNEL TO NATURAL GROUND AND MAINTAIN A MINIMUM CHANNEL DEPTH OF "D" AS SHOWN IN THE PROFILE.

CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR STRUCTURAL DESIGN/ GEOTECHNICAL/ SAFETY/EQUIPMENT CONSULTANT, IF ANY, SHALL REVIEW THESE PLANS AND ANY AVAILABLE GEOTECHNICAL INFORMATION AND/OR RECORDS AND/OR DATA AND/OR INFORMATION AND/OR 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 RESPONSIBILITY WITH THESE SYSTEMS, PROGRAMS AND/OR PROCEDURES SHALL BE TO REVIEW OR ADOPT OR MODIFY OR DEVELOP SAFETY PROTECTION THAT COMPLY WITH 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 FOR TRENCH EXCAVATION ACTIVITIES OF INDIVIDUALS WORKING IN AND AROUND TRENCHES.

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

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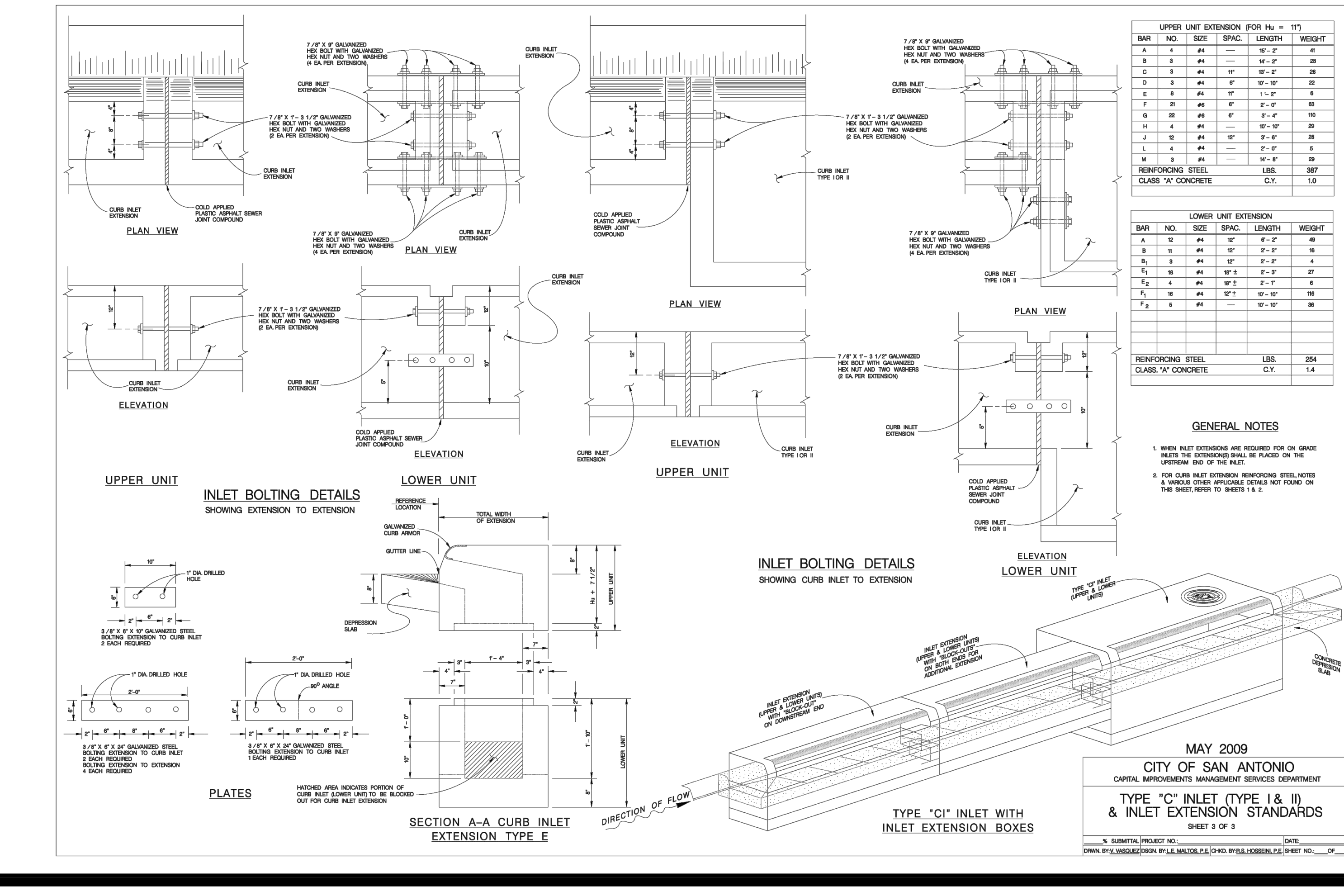
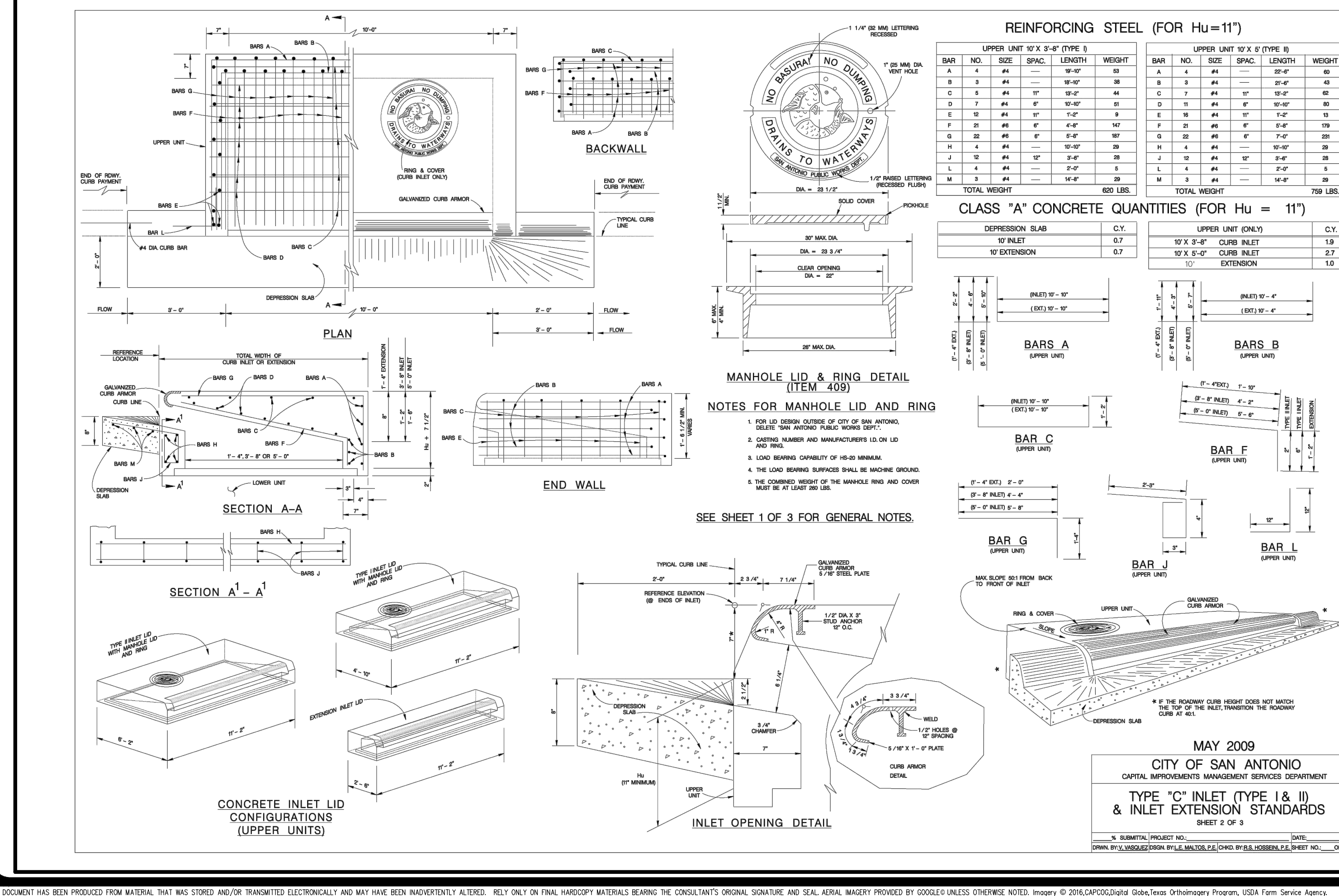
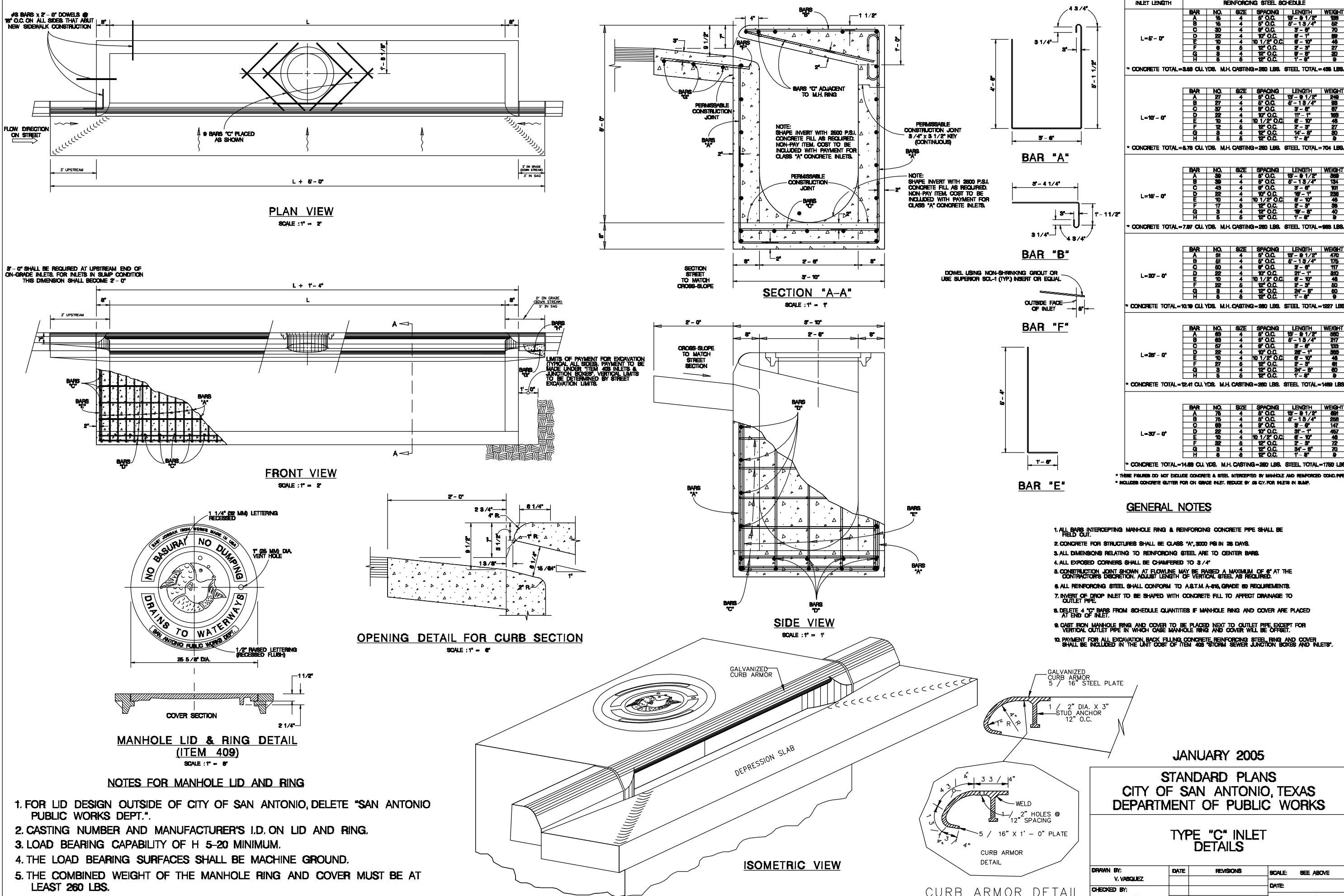
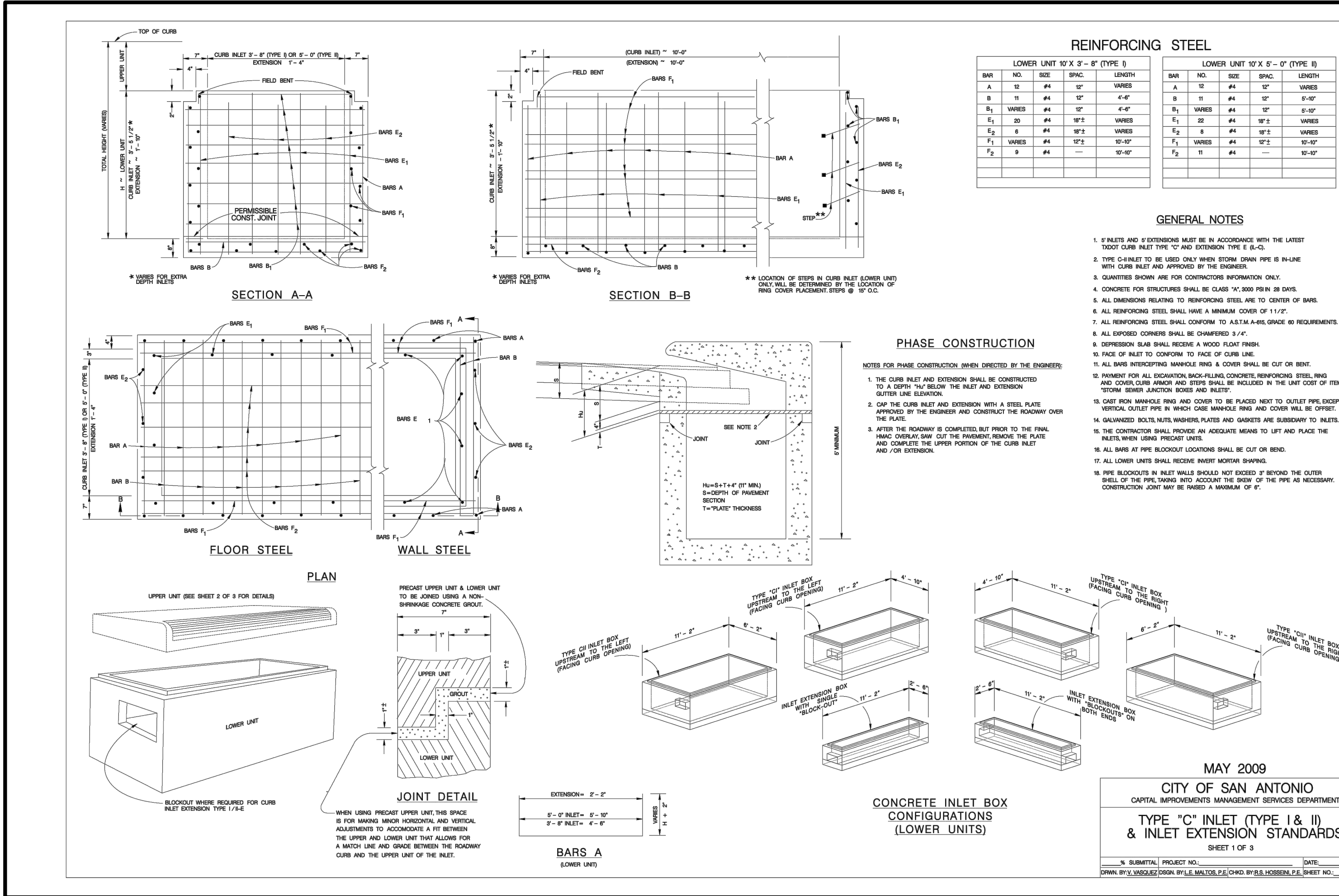
**PAPE-DAWSON
ENGINEERS**

SAN ANTONIO | AUSTIN | HOUSTON | FORT WORTH | DALLAS
2000 NW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000
TEXAS ENGINEERING FIRM #470 | TEXAS SURVEYING FIRM #10028800

KINDER SUNDAY CREEK - PHASE I

DRAIN "B" PLAN & PROFILE
STA 5+00 TO END

PLAT NO. 22-11800791
JOB NO. 8802-59
DATE MARCH 2024
DESIGNER UV
CHECKED AS DRAWN RD
SHEET C1.04



DATE: _____

NO. _____

REVISION _____

STATE OF TEXAS
CALEB M. CHANCE
PROFESSIONAL ENGINEER
98401
5/15/24

PAPE-DAWSON ENGINEERS

SAN ANTONIO | AUSTIN | HOUSTON | FORT WORTH | DALLAS
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TEXAS ENGINEERING FIRM #470 | TEXAS SURVEYING FIRM #1008880

KINDER SUNDAY CREEK - PHASE I

SAN ANTONIO, TEXAS

DRAINAGE DETAILS

PLAT NO. 22-11800791

JOB NO. 8802-59

DATE MARCH 2024

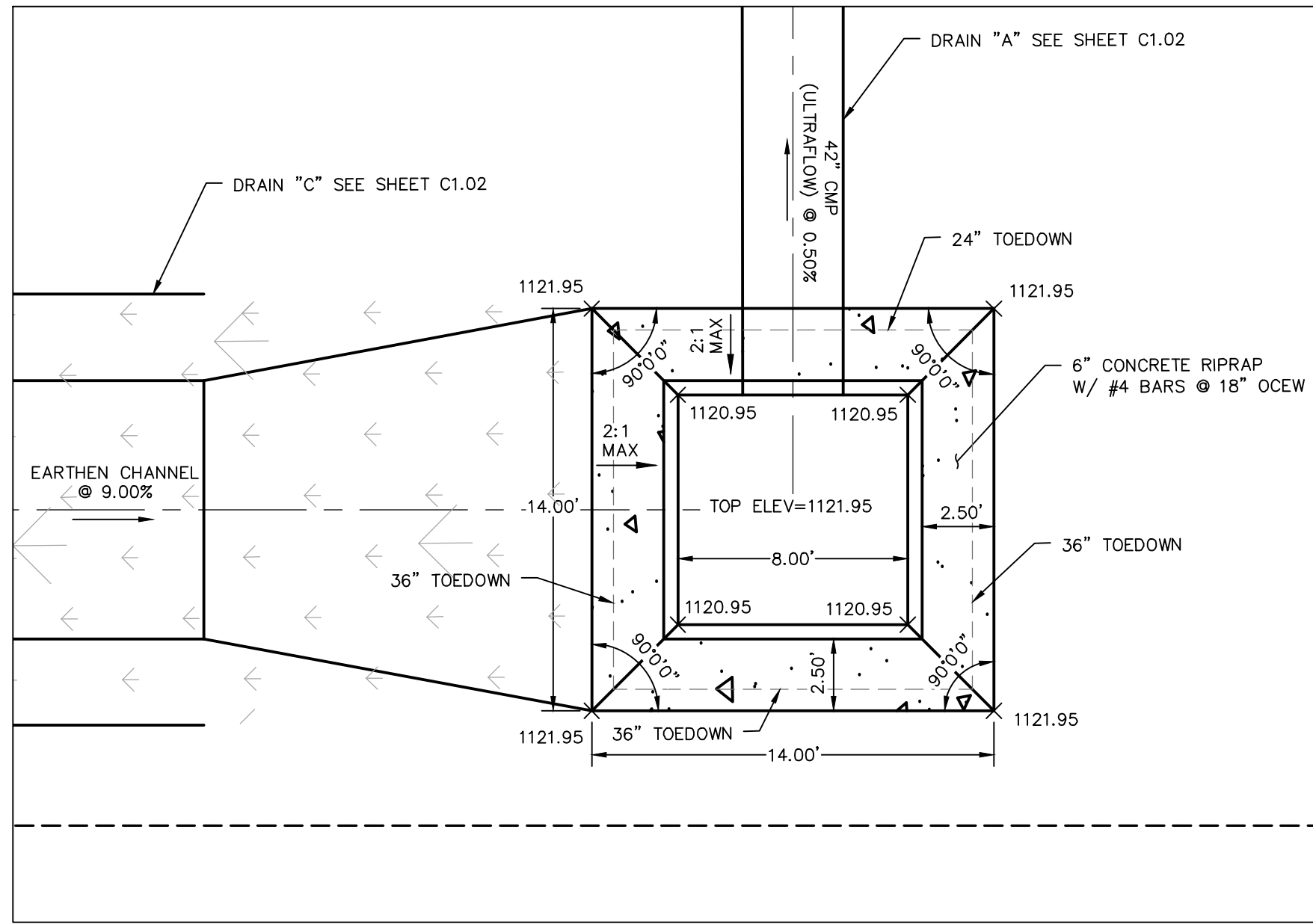
DESIGNER RD

CHECKED AS DRAWN RD

SHEET C1.10

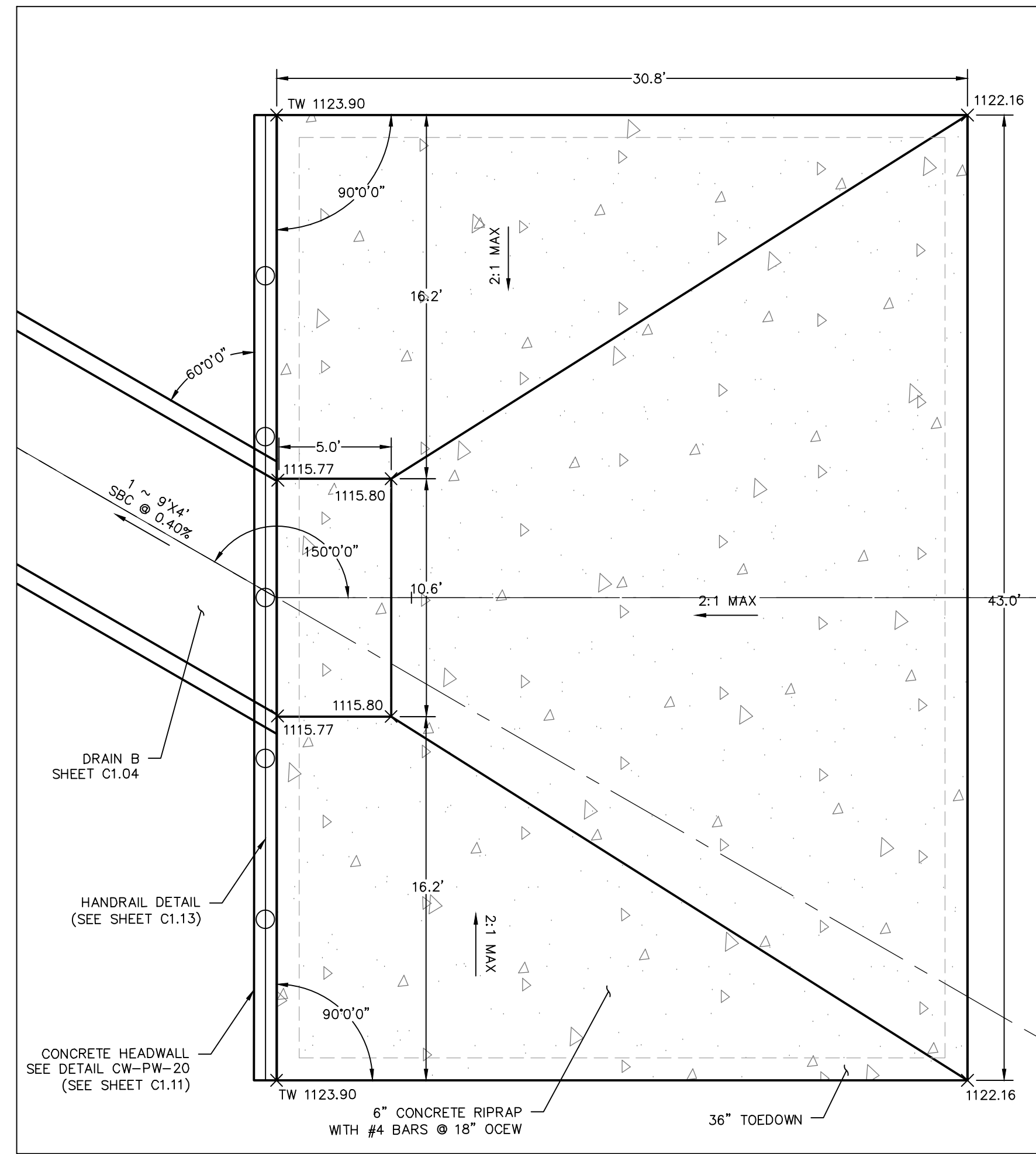
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THIS DOCUMENT HAS BEEN PRODUCED FROM MATERIAL THAT WAS STORED AND/OR TRANSMITTED ELECTRONICALLY AND MAY HAVE BEEN INADVERTENTLY ALTERED. RELY ONLY ON FINAL HARDCOPY MATERIALS BEARING THE CONSULTANT'S ORIGINAL SIGNATURE AND SEAL. AERIAL IMAGERY PROVIDED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



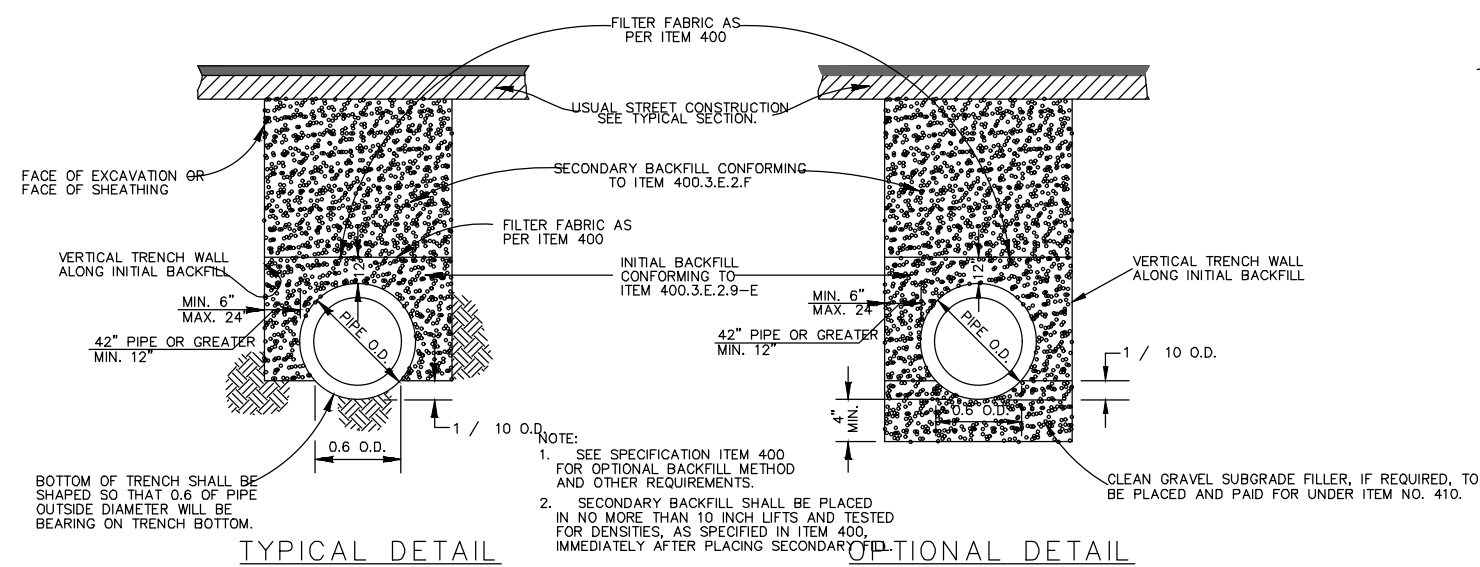
DETAIL "A"

SCALE: 1" = 5'

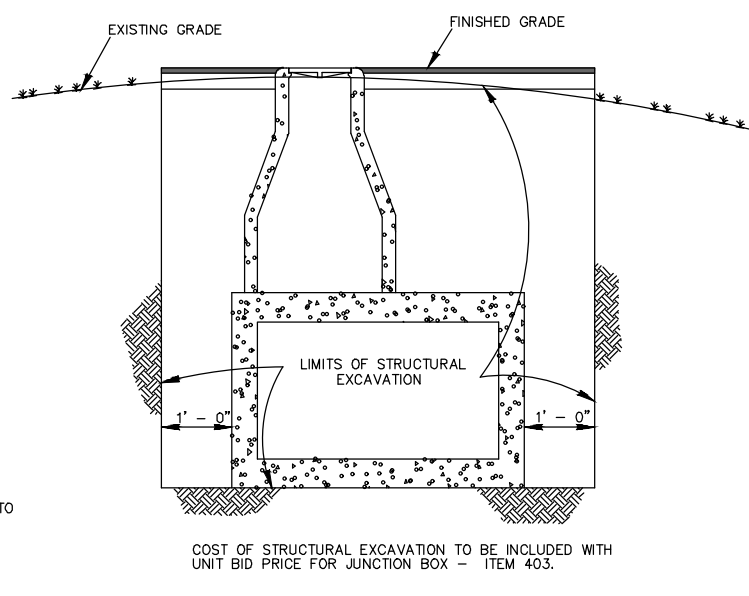


DETAIL "B"

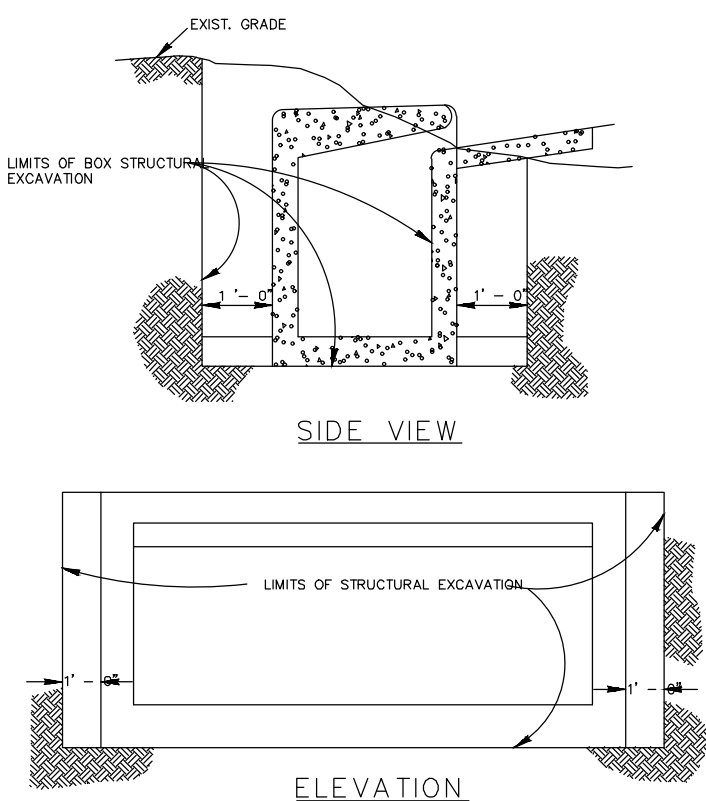
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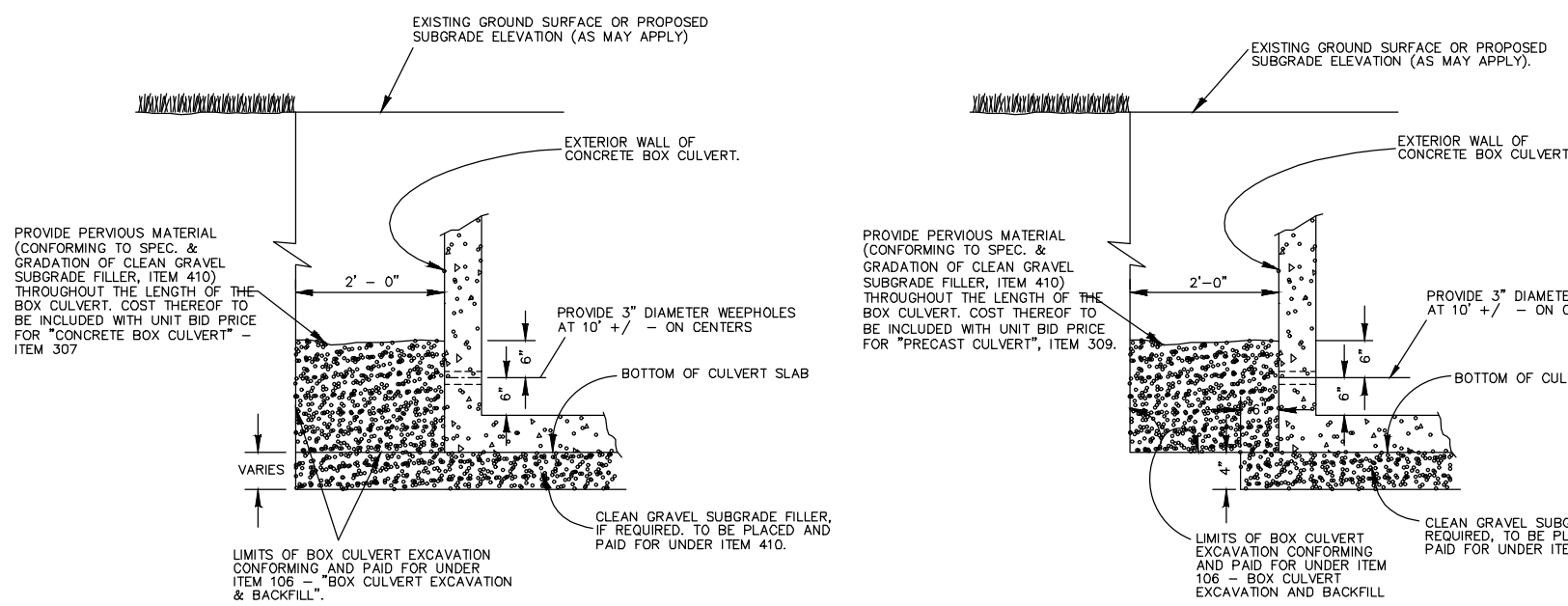
PIPE BEDDING & BACKFILL DETAILS



STRUCTURAL EXCAVATION AT JUNCTION BOXES

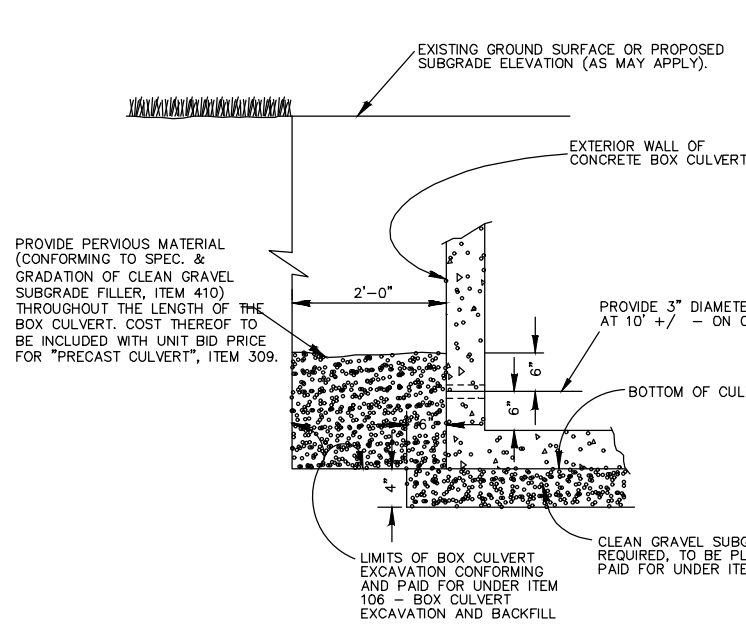


STRUCTURAL EXCAVATIONS AT DRAINAGE INLETS

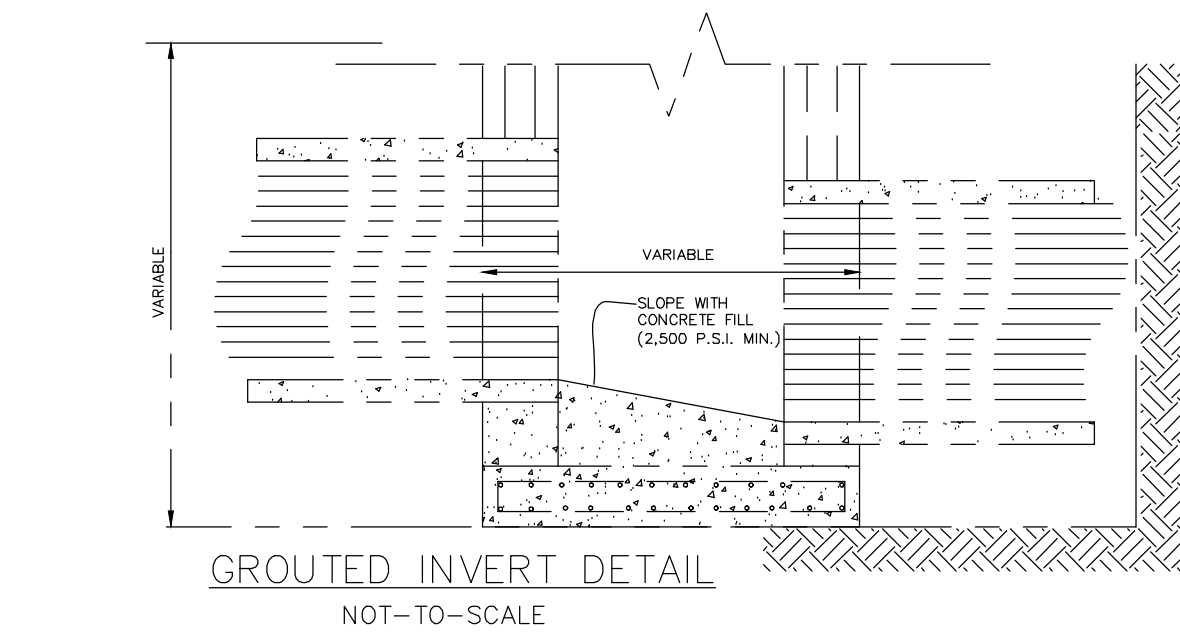


CAST-IN-PLACE BOX CULVERT

CONCRETE BOX CULVERT

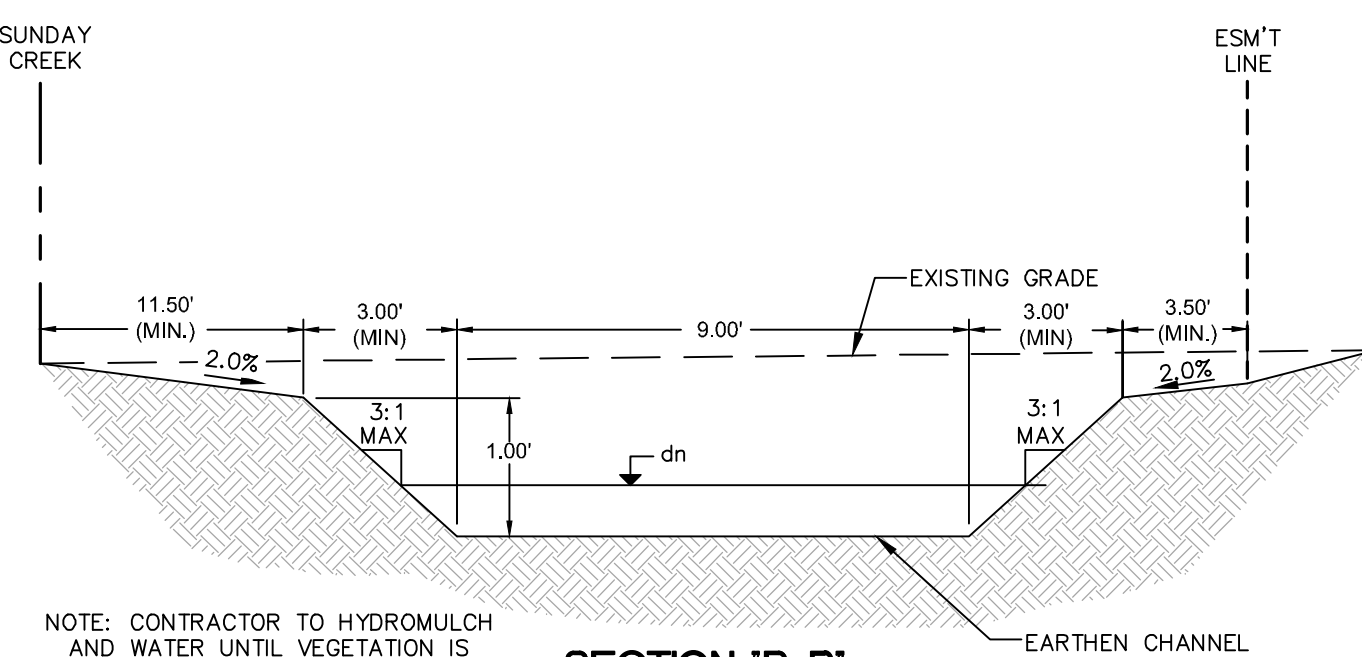


PRECAST BOX CULVERT



GROUTED INVERT DETAIL

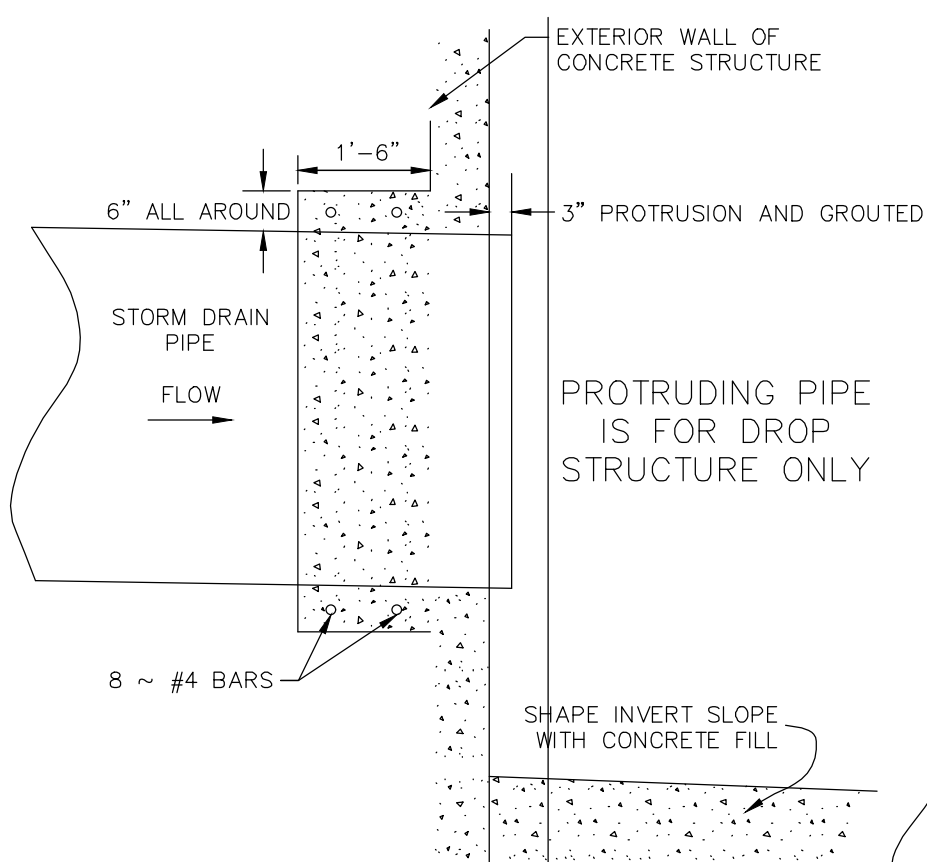
NOT-TO-SCALE



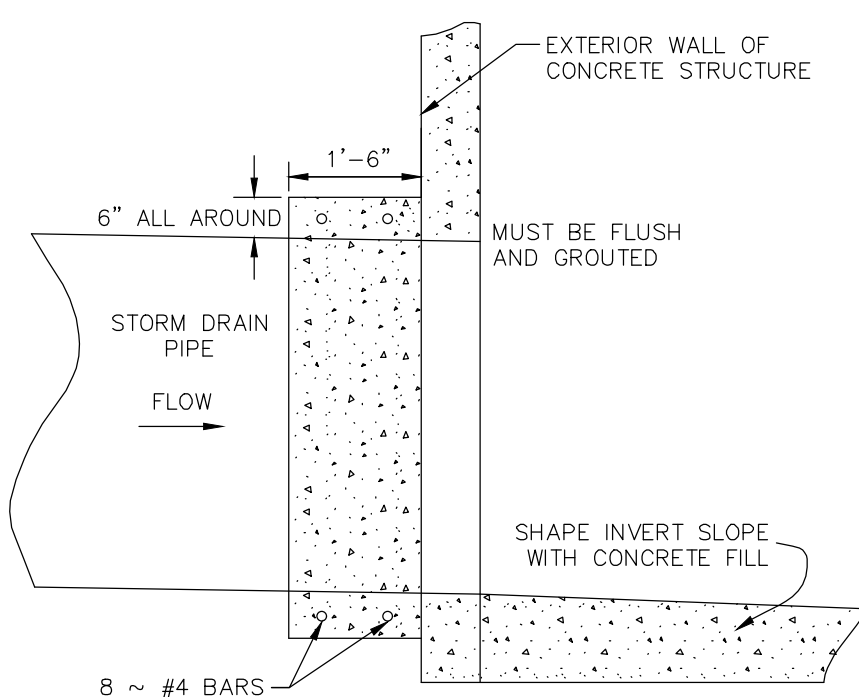
SECTION "B-B"

NOT-TO-SCALE
STA 1+14.00 TO END

NOTE: CONTRACTOR TO HYDROMULCH AND WATER UNTIL VEGETATION IS ESTABLISHED. SEED MIXTURE TO BE DETERMINED BY OWNER

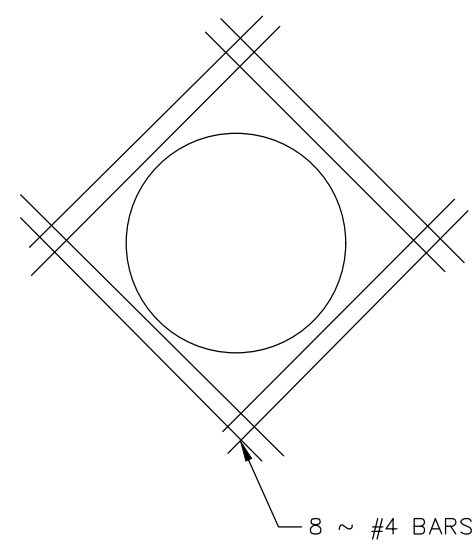


PIPE FLUSH WITH INVERT



CONCRETE COLLAR DETAIL

NOT-TO-SCALE
PROVIDE AT CONNECTION TO ALL STRUCTURES



- NOTES:
1. CONCRETE FOR STRUCTURE SHALL BE CLASS "A", 3,000 P.S.I. AT 28 DAYS.
 2. ALL EXPOSED EDGES SHALL BE CHAMFERED 3/4".
 3. REINFORCING STEEL SHALL BE NEW BILLET STEEL, INTERMEDIATE GRADE, ASTM A-15. THE DEFORMATION SHALL CONFORM TO ASTM. A-305.
 4. ALL DIMENSIONS RELATING TO REINFORCING STEEL ARE TO CENTER OF BARS.
 5. ALL BARS INTERCEPTING MANHOLE OPENING AND REINFORCED CONCRETE PIPE SHALL BE FIELD-CUT.
 6. WHERE LAPPING OF BARS IS REQUIRED, A MINIMUM LAP OF 33 DIAMETERS SHALL BE USED.
 7. INVERT OF JUNCTION BOX TO BE SHAPED WITH CONCRETE FILL (3,000 P.S.I. MIN.) TO EFFECT DRAINAGE TO OUTLET PIPE. COST SUBSIDIARY TO CLASS "A" CONCRETE (JUNCTION BOXES).

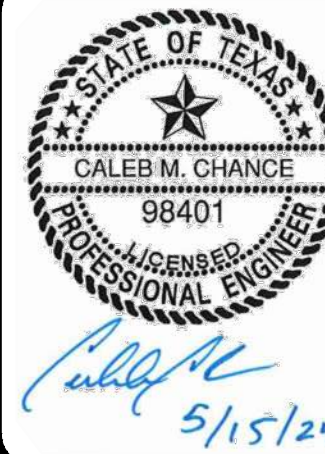
KINDER SUNDAY CREEK - PHASE I
SAN ANTONIO, TEXAS

DRAINAGE DETAILS

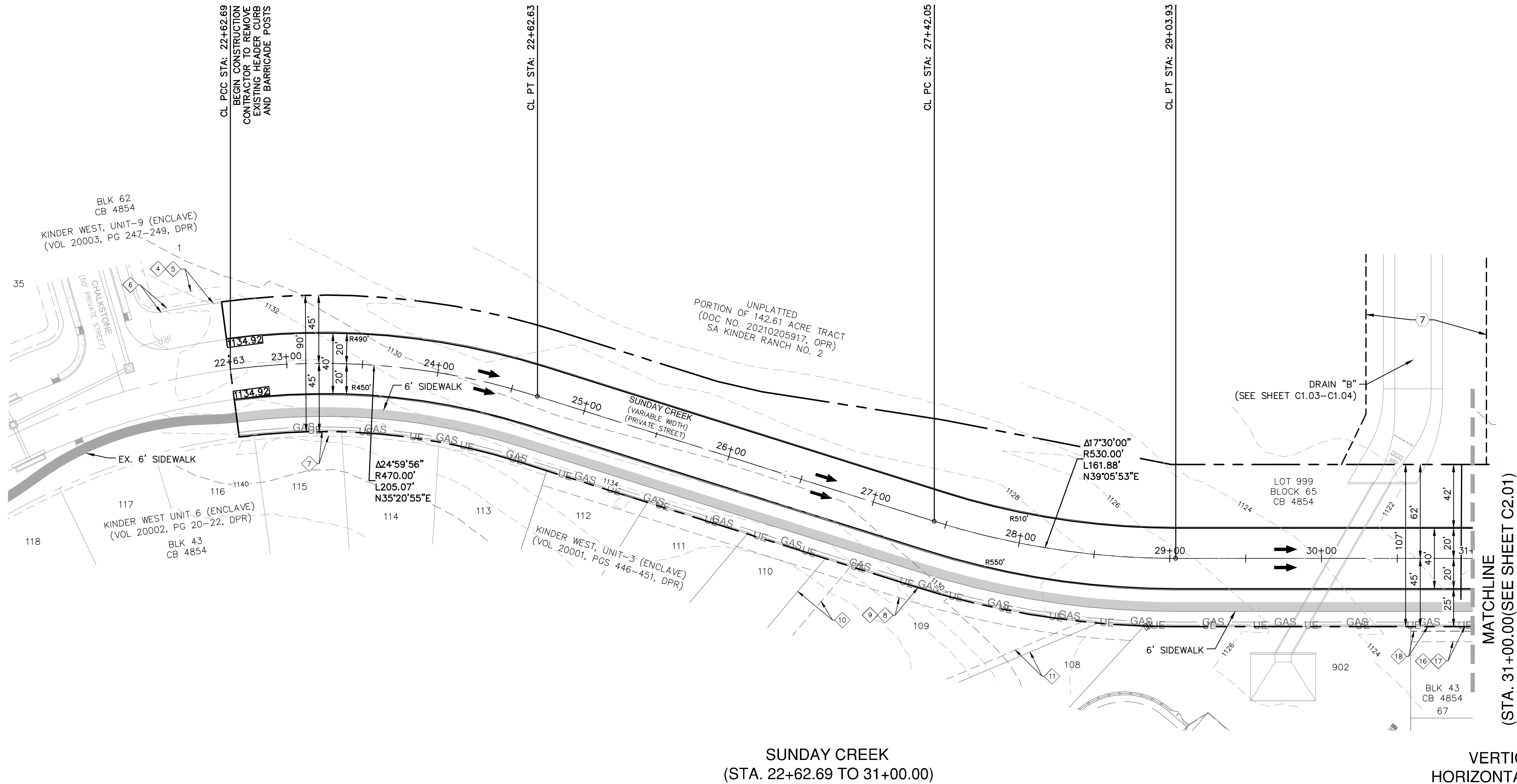
PAPE-DAWSON
ENGINEERS

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2000 HW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000
TEXAS ENGINEERING FIRM #470 | TEXAS SURVEYING FIRM #10028890

NO.	REVISION	DATE

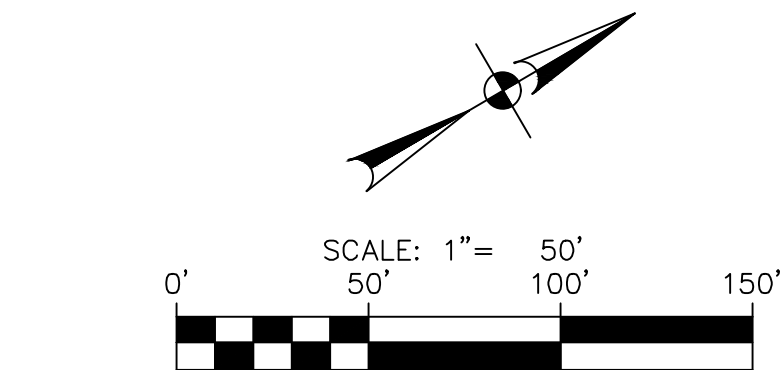
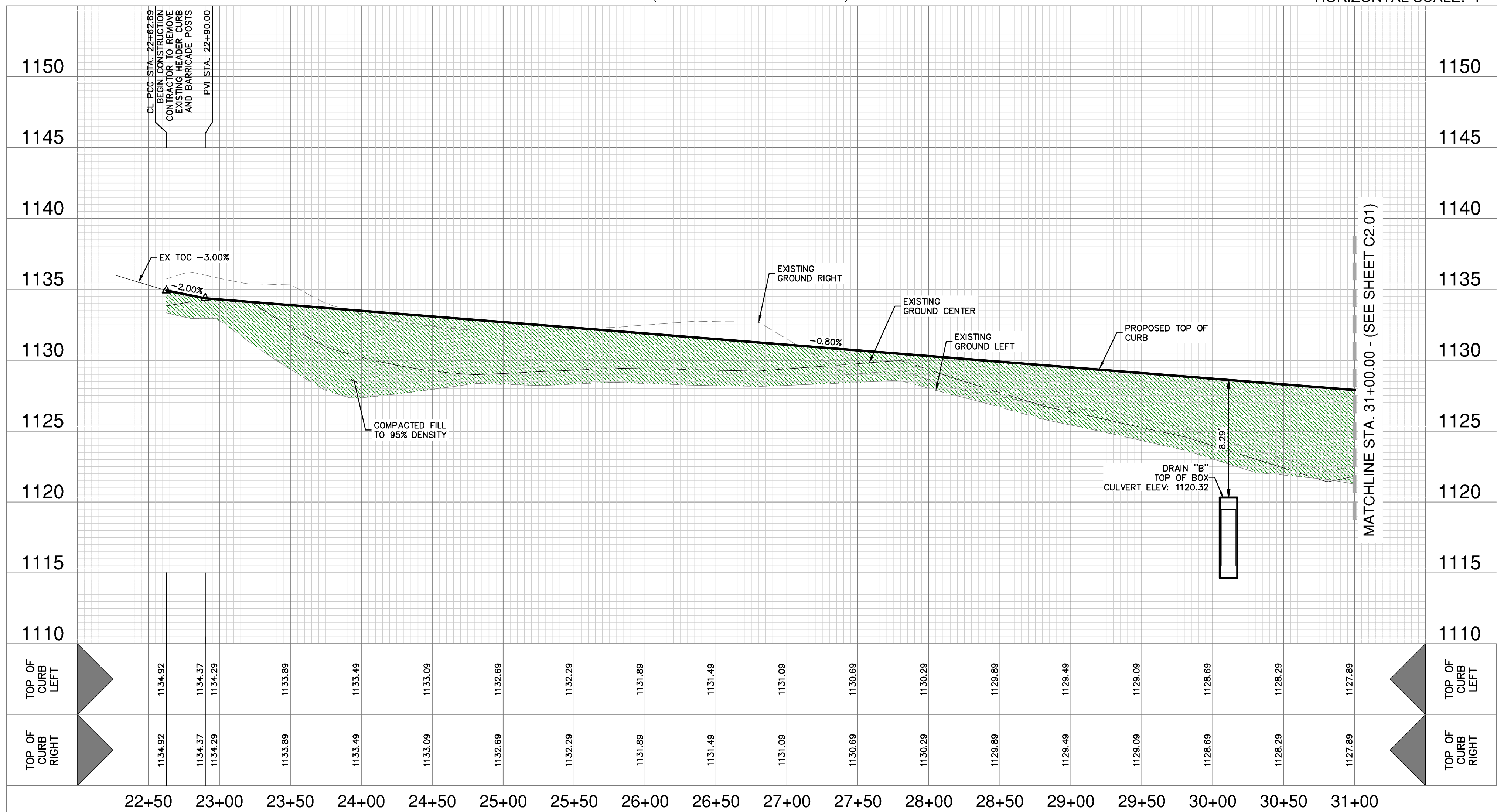


PLAT NO.	22-11800791
JOB NO.	8802-59
DATE	MARCH 2024
DESIGNER	JUV
CHECKED	AS
DRAWN	RD
SHEET	C1.12



SUNDAY CREEK
(STA. 22+62.69 TO 31+00.00)

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



STREET LEGEND

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

- 10' GAS ELECTRIC, TELEPHONE AND CABLE TV EASEMENT (OFF LOT) (2.888 OF AN ACRE) (VOL 20001, PGS 444-451, DPR)
- 10' BUILDING SETBACK (KINDER WEST, UNIT-2 (ENCLAVE) (VOL 9727, PG 7-12, DPR))
- 10' BUILDING SETBACK (KINDER WEST, UNIT-2 (ENCLAVE) (VOL 9727, PG 7-12, DPR))
- VARIABLE WIDTH WATER EASEMENT (VOL 18673, PG 1851, DPR)
- 10' ELECTRIC, GAS, TELEPHONE & CABLE TV EASEMENT (VOL 20003, PGS 247-249, DPR)
- 10' BUILDING SETBACK (KINDER WEST UNIT 9 (ENCLAVE) (VOL 20003, PGS 247-249, DPR))
- 1' VEHICLE NON ACCESS EASEMENT (NOT TO SCALE) (KINDER WEST, UNIT-6 (ENCLAVE) (VOL 20002, PGS 20-22, DPR))
- 10' GAS ELECTRIC, TELEPHONE AND CABLE TV EASEMENT (VOL 20001, PGS 444-451, DPR)
- 10' BUILDING SETBACK (KINDER WEST, UNIT-3 (ENCLAVE) (VOL 20001, PGS 444-451, DPR))
- 15' GAS ELECTRIC, TELEPHONE AND CABLE TV EASEMENT (VOL 20001, PGS 444-451, DPR)
- VARIABLE WIDTH ELECTRIC EASEMENT (OFF LOT) (0.86 OF AN ACRE) (VOL 20001, PGS 444-451, DPR)
- VARIABLE WIDTH ACCESS, SANITARY SEWER, FORCE MAIN, WATER, DRAINAGE, GAS, ELECTRIC, TELEPHONE AND CABLE TV EASEMENT TO EXPIRE UPON INCORPORATION INTO PLATTED PRIVATE STREET (OFF LOT) (5.74 ACRES) (VOLUME 7722, PAGES 49-53 DPR)
- 5' GAS ELECTRIC, TELEPHONE AND CABLE TV EASEMENT (KINDER WEST, UNIT-5 (ENCLAVE) (VOL 20001, PGS 444-451, DPR))
- 1' VEHICLE NON ACCESS EASEMENT (NOT TO SCALE) (KINDER WEST, UNIT-2 (ENCLAVE) (VOL 9727, PGS 7-12, DPR))
- 10' DRAINAGE EASEMENT (PERMEABLE) (OFF LOT) (PLAT NO. 22-11800764) (VOL 20003, PGS 247-249, DPR)
- 10' GAS ELECTRIC, TELEPHONE AND CABLE TV EASEMENT (KINDER WEST, UNIT-7 (ENCLAVE) (PLAT NO. 22-11800764) (VOL 20003, PGS 247-249, DPR))
- 10' BUILDING SETBACK (KINDER WEST, UNIT-7 (ENCLAVE) (PLAT NO. 22-11800764) (VOL 20003, PGS 247-249, DPR))
- 15' GAS ELECTRIC, TELEPHONE AND CABLE TV EASEMENT (KINDER WEST, UNIT-7 (ENCLAVE) (PLAT NO. 22-11800764) (VOL 20003, PGS 247-249, DPR))
- VARIABLE WIDTH ELECTRIC EASEMENT (OFF LOT) (0.86 OF AN ACRE) (VOL 20001, PGS 444-451, DPR)
- VARIABLE WIDTH ACCESS, SANITARY SEWER, FORCE MAIN, WATER, DRAINAGE, GAS, ELECTRIC, TELEPHONE AND CABLE TV EASEMENT TO EXPIRE UPON INCORPORATION INTO PLATTED PRIVATE STREET (OFF LOT) (5.74 ACRES) (VOLUME 7722, PAGES 49-53 DPR)
- VARIABLE WIDTH DRAINAGE EASEMENT (PERMEABLE) (OFF LOT) (2.888 OF AN ACRE) (VOL 20001, PGS 444-451, DPR))
- VARIABLE WIDTH DRAINAGE, TURNAROUND, ACCESS AND UTILITY EASEMENT TO EXPIRE UPON PLATTING OF FUTURE PRIVATE STREET (PERMEABLE) (OFF LOT) (2.437 OF AN ACRE) (VOL 20001, PGS 444-451, DPR))
- 28' PERMANENT ELECTRIC EASEMENT (PERMEABLE) (OFF LOT) (0.268 OF AN ACRE)
- VARIABLE WIDTH PERMANENT GAS, TELEPHONE, ELECTRIC, AND CABLE TV EASEMENT (PERMEABLE) (OFF LOT)

STREET NOTES:

- CONTRACTOR SHALL MATCH EXISTING PAVEMENT AT TIE-IN, IF EXISTING PAVEMENT ELEVATION DIFFERS SIGNIFICANTLY CONTRACTOR SHALL NOTIFY THE ENGINEER PRIOR TO CONTINUING WORK.
- SIDEWALKS SHALL BE CONSTRUCTED 3'-FT FROM THE BACK OF CURB FOR ALL LOCATIONS WHERE THE SIDEWALK IS SHOWN OFFSET. REFER TO STREET DETAIL SHEET FOR SIDEWALK AND RAMP DETAILS.
- NO PERMANENT STRUCTURES HIGHER THAN 3 FEET, AND LOWER THAN 8 FEET ABOVE THE PAVEMENT, INCLUDING STRUCTURES, WALLS, FENCES, AND VEGETATION, SHALL BE CONSTRUCTED OR ALLOWED WITHIN THE CLEAR VISION EASEMENT. CONTRACTOR SHALL GRADE AREAS WITHIN CLEAR VISION EASEMENTS SUCH THAT THE ELEVATION WITHIN THE CLEAR VISION EASEMENT IS NOT HIGHER THAN 3 FEET ABOVE THE ADJACENT TOP OF PAVEMENT.
- DRIVEWAYS SHOWN ON THIS PLAN ARE FOR THE SOLE PURPOSE OF INDICATING A POTENTIAL CONFLICT WITH CURB RAMP, DRAINAGE INFRASTRUCTURE, OR OTHER CONFLICT. DRIVEWAY LOCATION IS SUBJECT TO CHANGE BASED ON HOME SELECTION AND FINAL LOT DESIGN.
- CHANGES IN THE SIDEWALK LOCATION FOR A MAXIMUM LINEAR DISTANCE OF TWO HUNDRED (200) FEET ARE PERMITTED TO BE APPROVED BY THE FIELD INSPECTOR WITHOUT AMENDING THE STREET PLAN OR UTILITY LAYOUT PER UDC SECTION 35-506 (Q)(6).
- THE CONSTRUCTION OF SIDEWALKS ADJACENT TO ALL 900 SERIES LOTS WILL BE THE RESPONSIBILITY OF THE DEVELOPER AS SHOWN ON THE OVERALL SIGNAGE PLAN. SIDEWALKS ARE NOT SHOWN ADJACENT TO ALL PRIVATE STREETS. REFER TO SHEET C3.00 FOR LOCATIONS OF SIDEWALK CONSTRUCTION.
- FILL MATERIAL SHOULD BE NATIVE ON-SITE MATERIAL, FREE OF DELETERIOUS MATERIAL WITH A MINIMUM CBR VALUE OF 5.0 AND A PI MAXIMUM OF 20. THE GRAVEL SIZE SHOULD NOT EXCEED 3 INCHES IN DIAMETER. LIME APPLICATION RATE SHOULD BE RE-EVALUATED FOR THE FILL MATERIAL. THE MATERIAL SHOULD BE PLACED AS PER APPLICABLE CITY OR COUNTY GUIDELINES.

PAPE-DAWSON
ENGINEERS

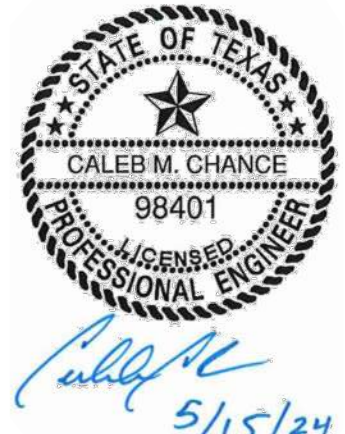
SAN ANTONIO | AUSTIN | HOUSTON | FORT WORTH | DALLAS
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TEXAS ENGINEERING FIRM #470 | TEXAS SURVEYING FIRM #1008860

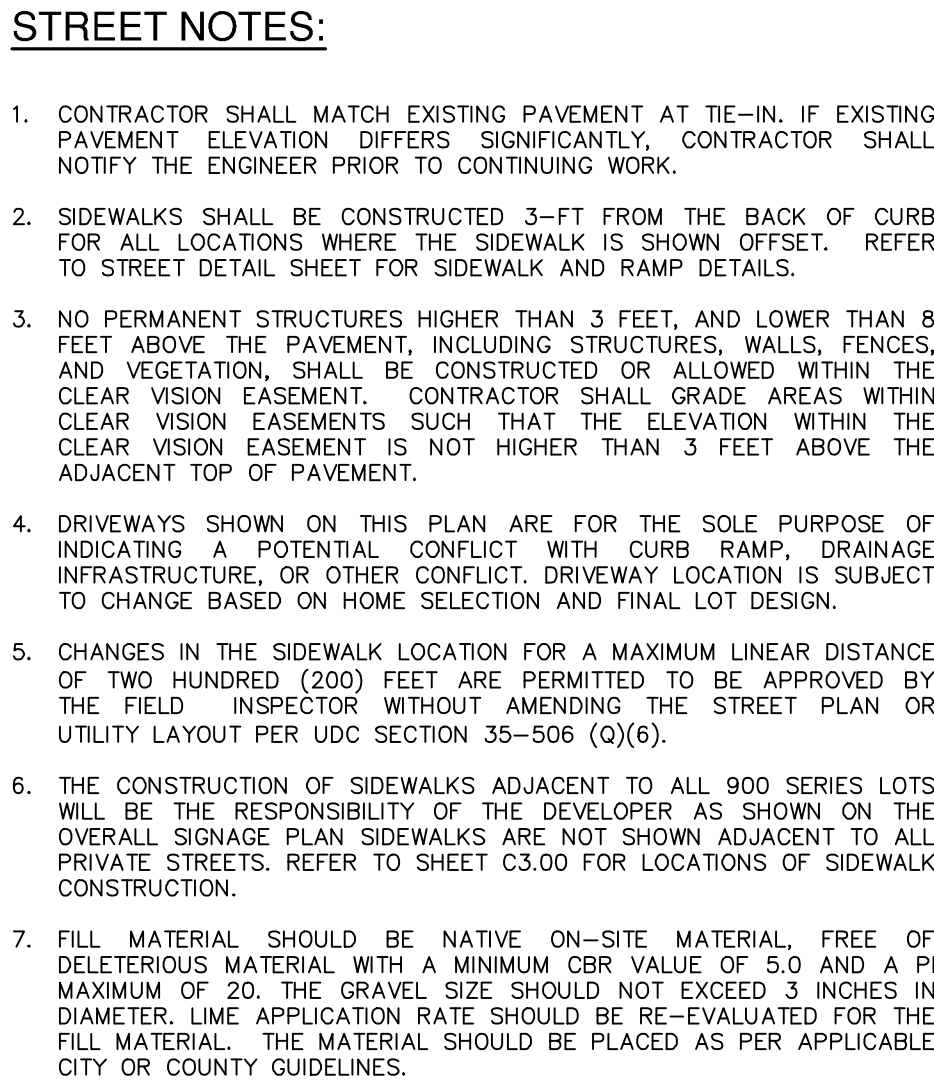
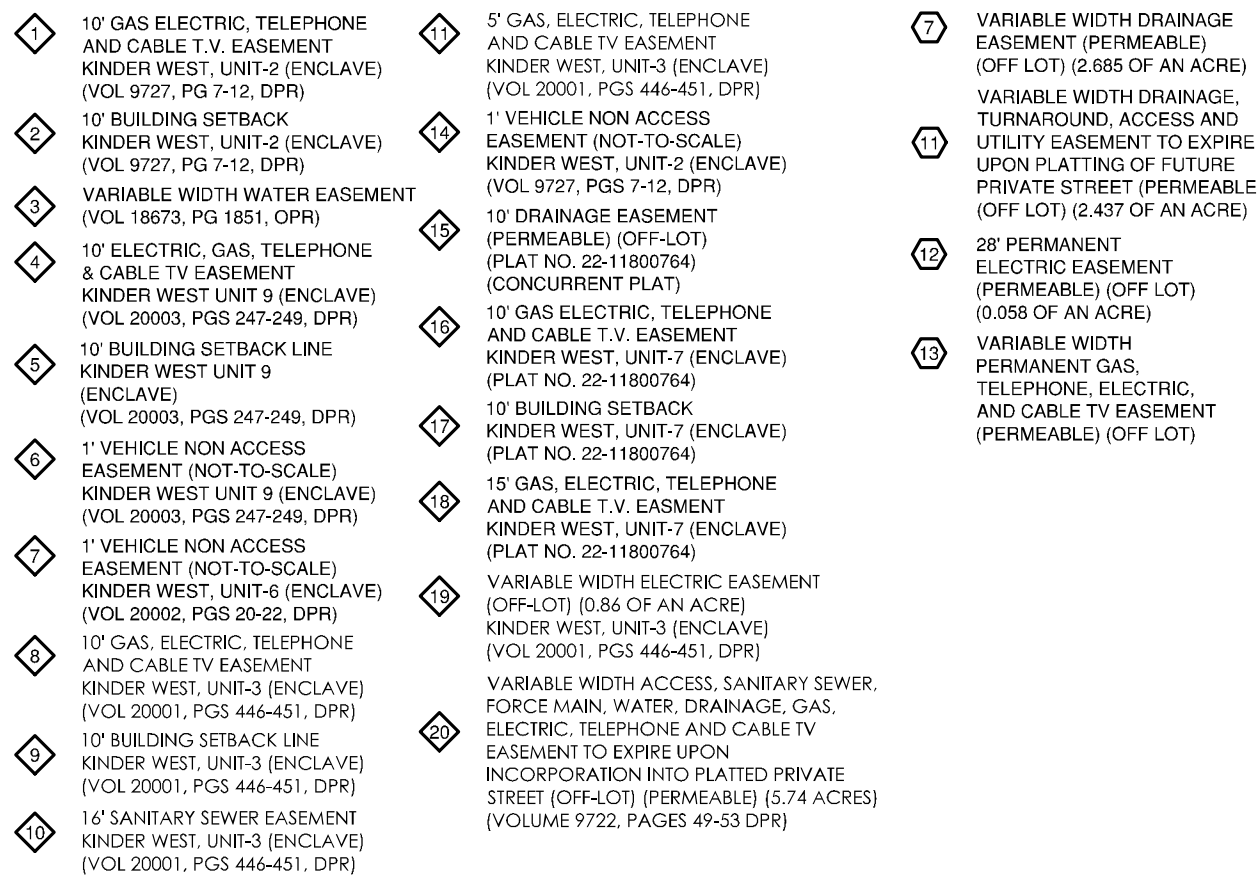
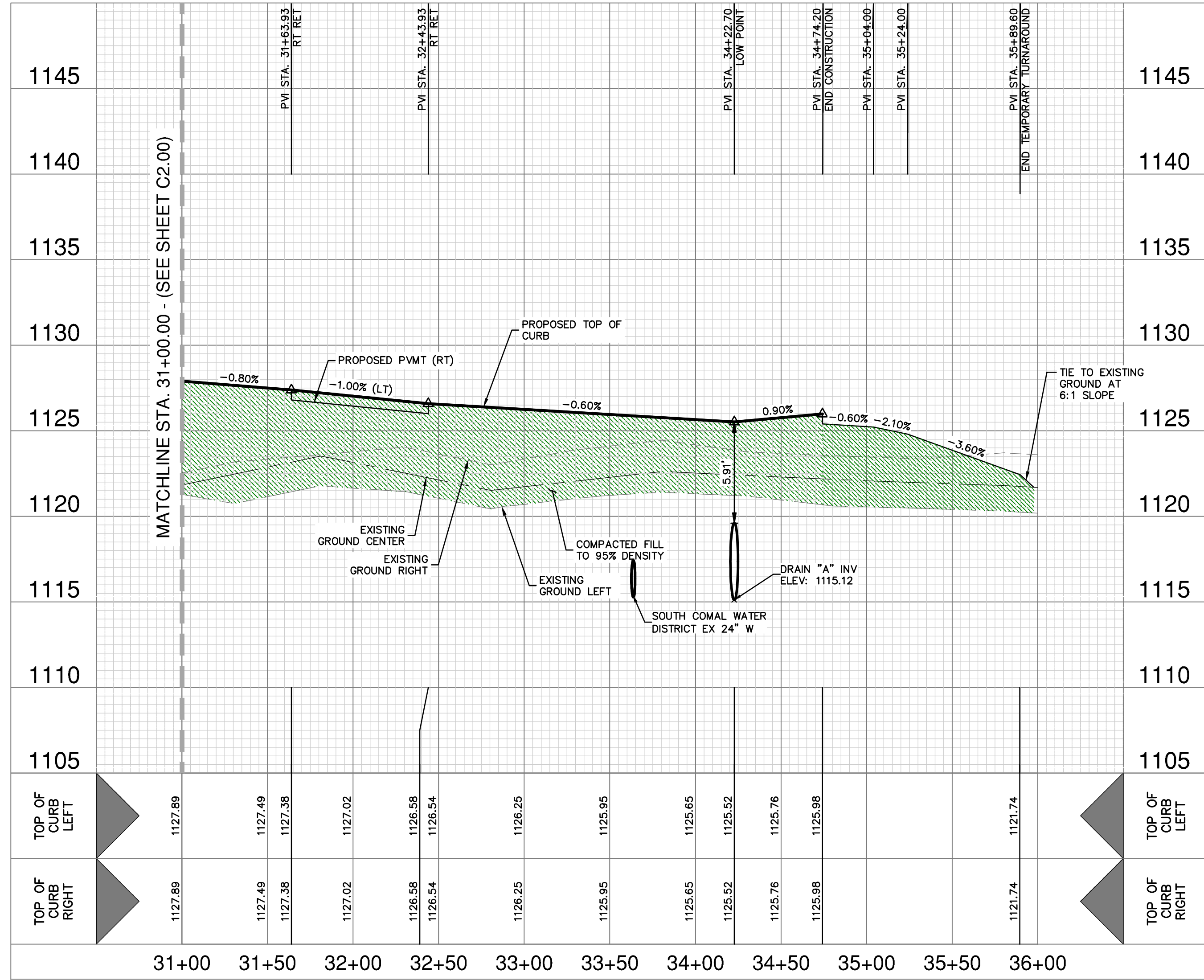
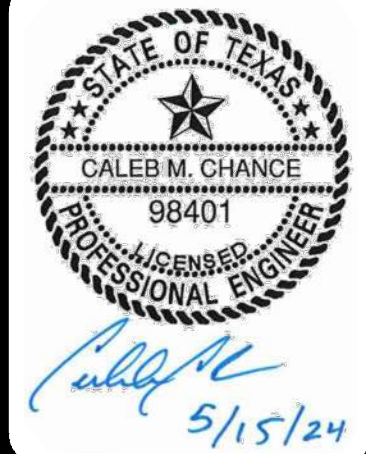
KINDER SUNDAY CREEK - PHASE I
SAN ANTONIO, TEXAS

SUNDAY CREEK PLAN & PROFILE
STA. 22+62.69 TO 31+00.00

PLAT NO. 22-11800791
JOB NO. 8802-59
DATE MARCH 2024
DESIGNER JV
CHECKED AS DRAWN DD
SHEET C2.00

NO.	REVISION	DATE



[illegible]

**PAPE-DAWSON
ENGINEERS**

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2000 NW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000
TEXAS ENGINEERING FIRM #470 | TEXAS SURVEYING FIRM #10028860

KINDER SUNDAY CREEK - PHASE I
SAN ANTONIO, TEXAS

SUNDAY CREEK PLAN & PROFILE
STA. 31+00.00 TO 34+74.20

PLAT NO. 22-11800791
JOB NO. 8802-59
DATE MARCH 2024
DESIGNER UV
CHECKED AS DRAWN DD
SHEET C2.01

PAVEMENT SECTION DETAIL							
STREET NAME	STATION	TYPE "D" HMAc	CRUSHED LIMESTONE BASE	TREATED SUBGRADE	GEOGRID (TENSAR TRIAX TX5)	CBR	STRUCTURAL NUMBER
SUNDAY CREEK (LOCAL B)	22+62.69 TO 34+74.20	3"	17"	*	NO	5.0	3.70
WEVELGLEN (LOCAL A)	1+20.00 TO 1+60.00	2"	10"	*	NO	2.5	2.76

GENERAL NOTES:

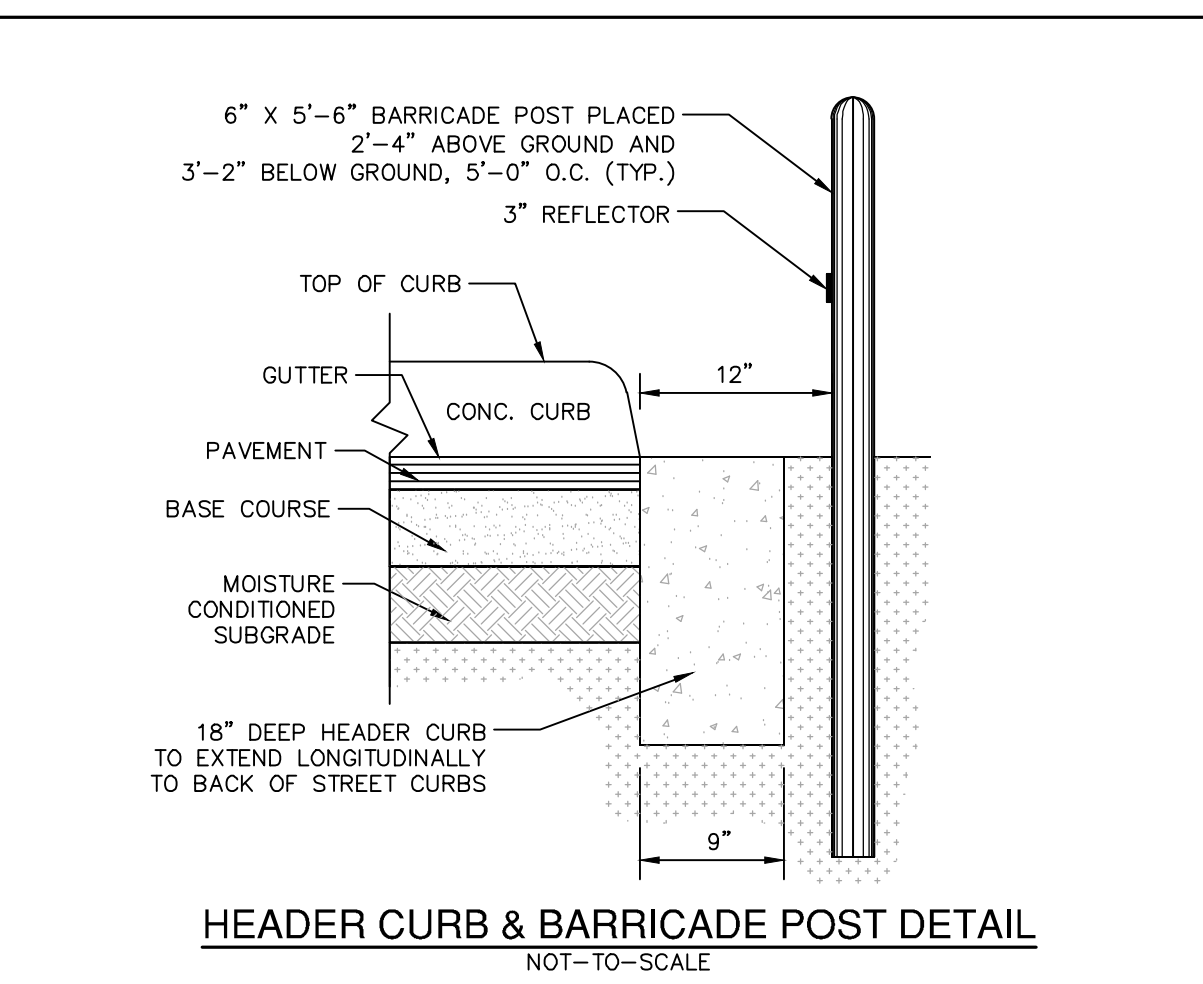
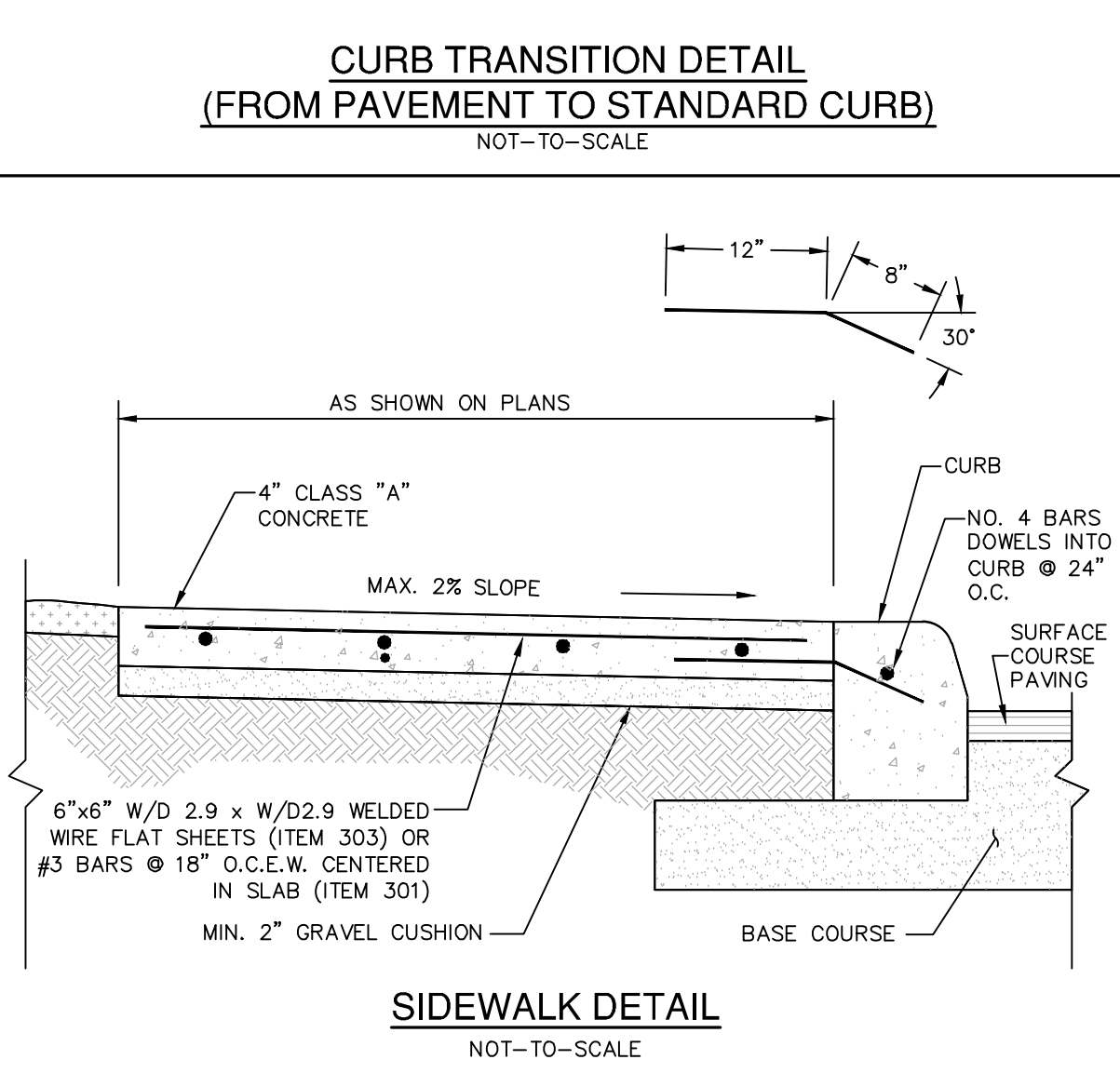
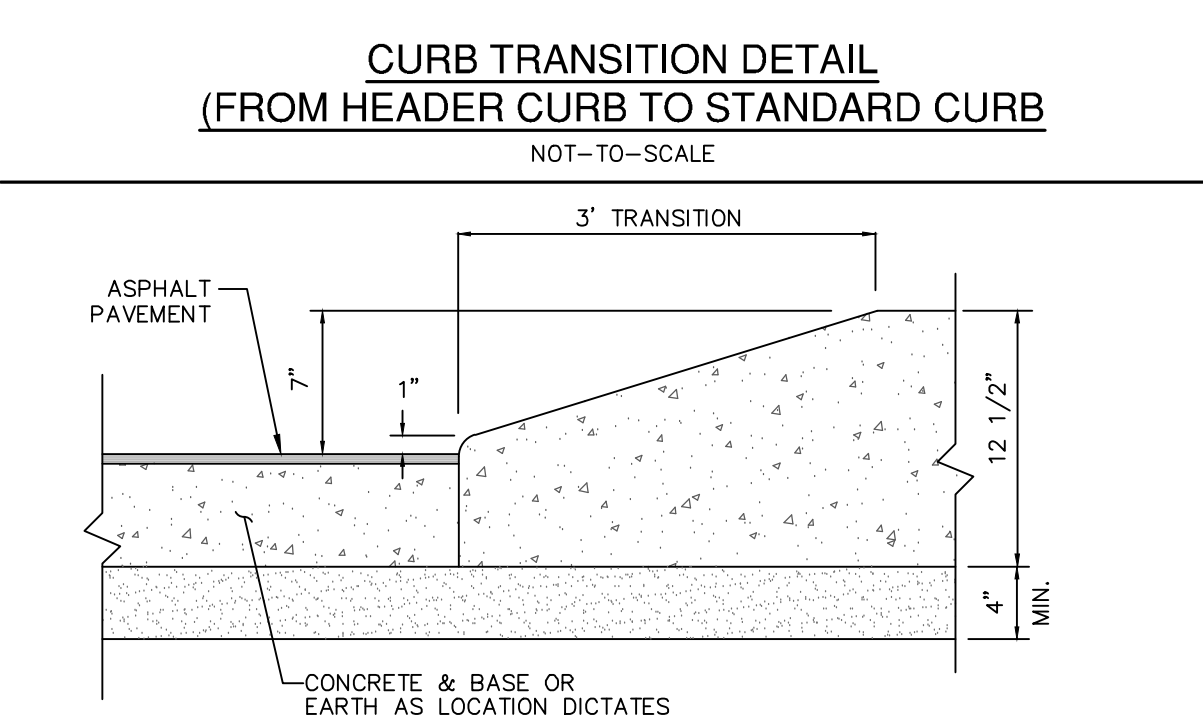
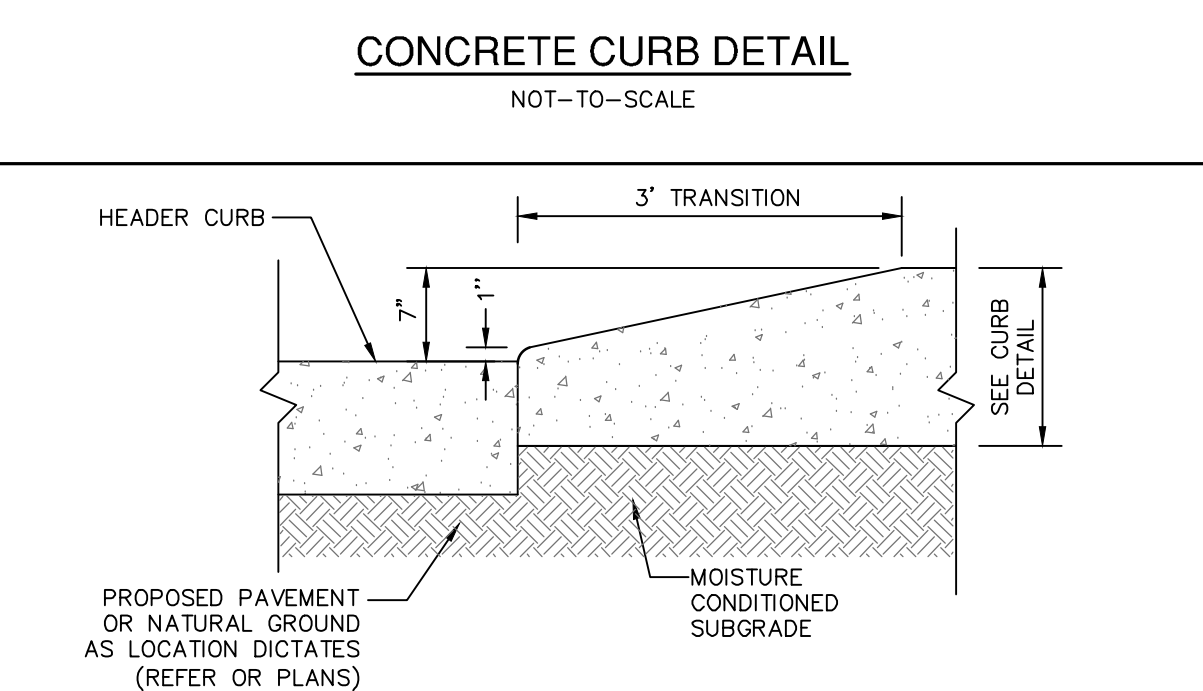
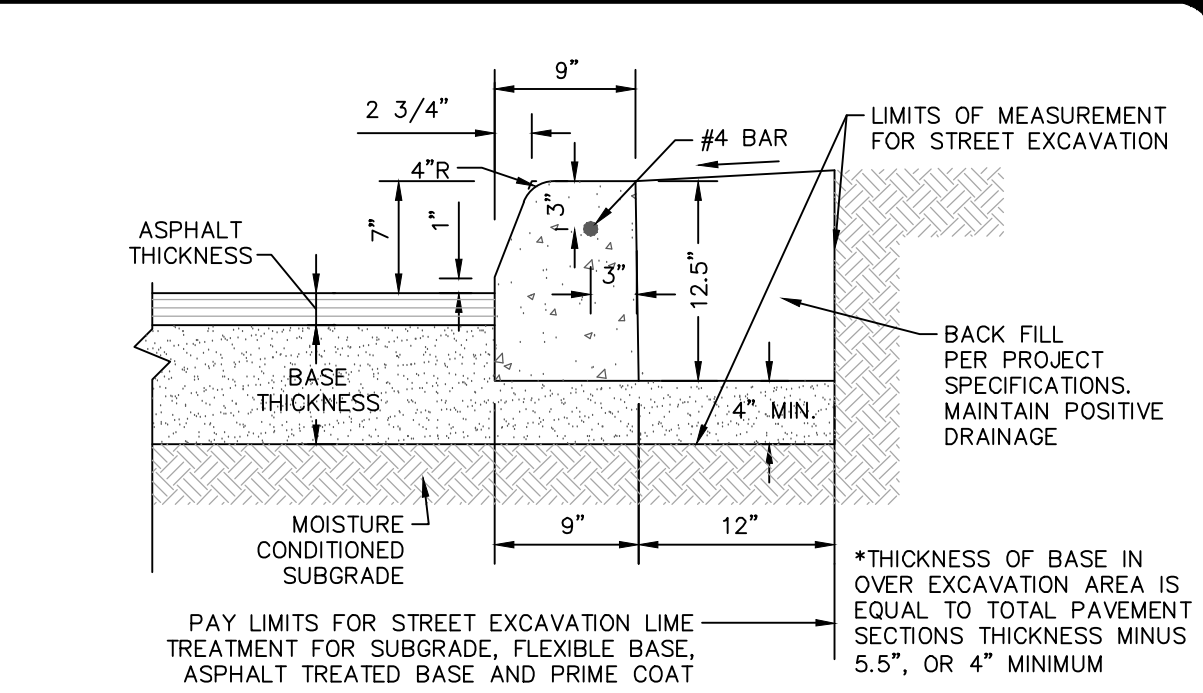
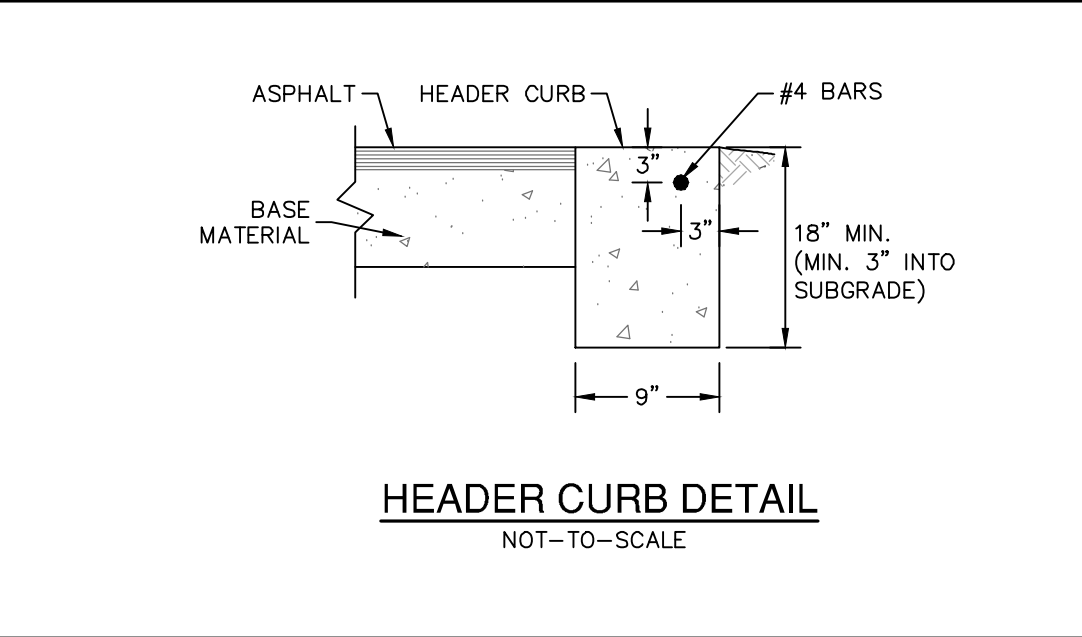
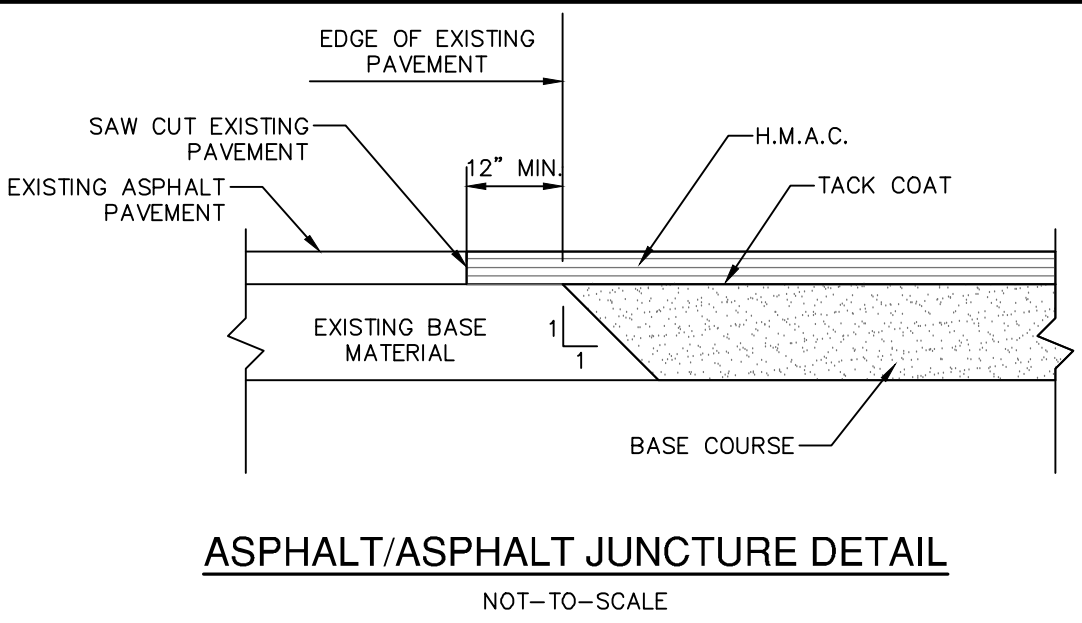
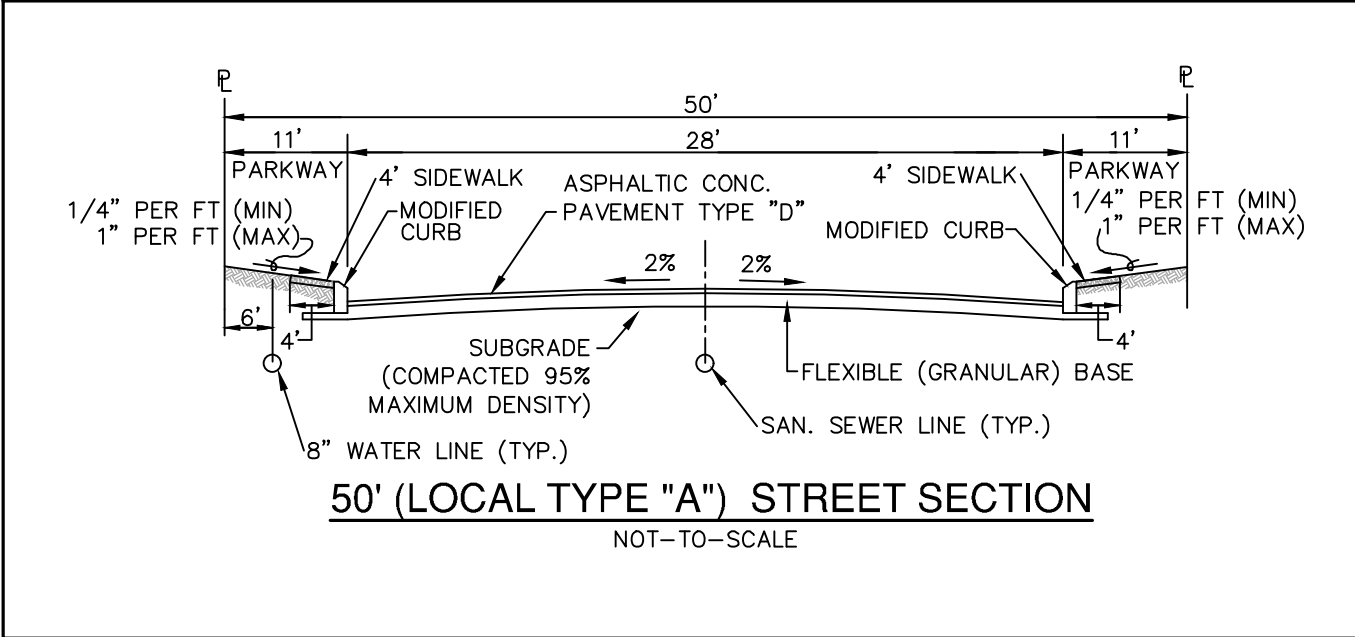
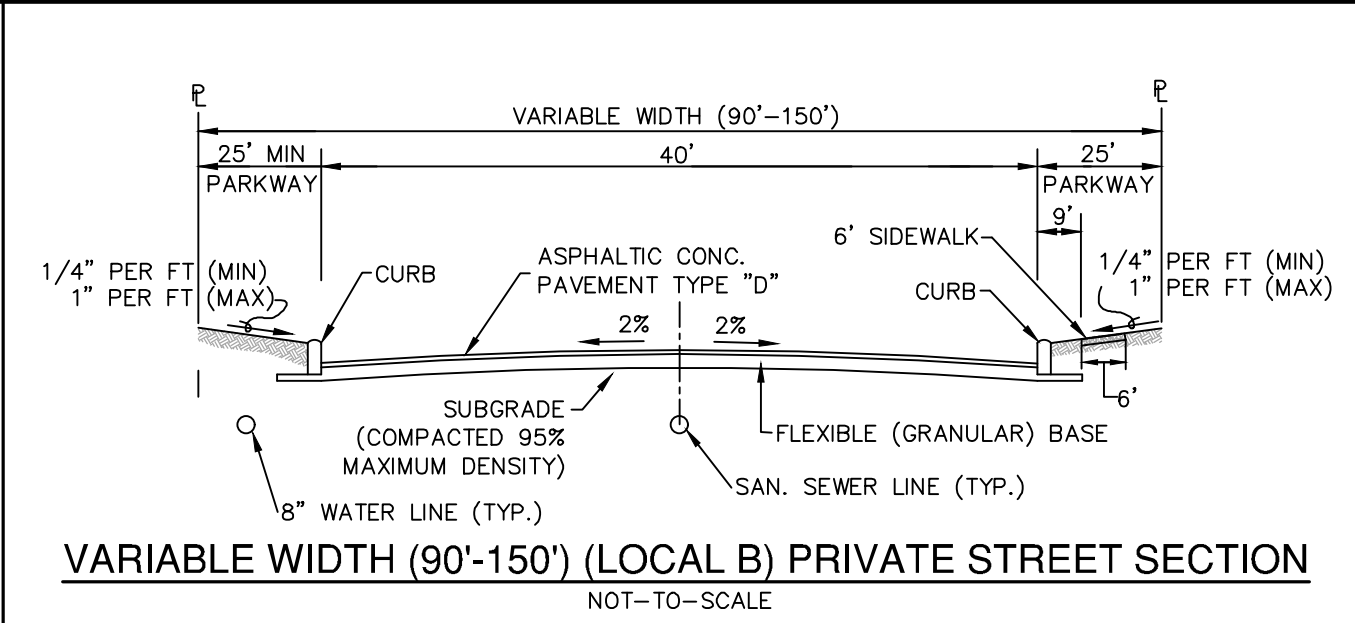
- CONTRACTOR SHALL REFERENCE THE PROJECT PAVEMENT DESIGN REPORT S231114 PREPARED BY INTEC DATED **JANUARY 29, 2024**.
- CONTRACTOR SHALL RETAIN A GEOTECHNICAL ENGINEER TO VERIFY THE SUB GRADE CONDITION PRIOR TO PLACING ANY BASE MATERIAL. GEOTECHNICAL ENGINEER SHALL DETERMINE THE SUB GRADE CONDITION AND IF LIME TREATMENT IS REQUIRED.
- GEOTECHNICAL ENGINEER SHOULD VERIFY THE STREET SUBGRADE AT THE TIME OF CONSTRUCTION PRIOR TO PLACEMENT OF AGGREGATE BASE.
- THE FLEXIBLE BASE COURSE SHOULD BE CRUSHED LIMESTONE CONFORMING TO TxDOT STANDARD SPECIFICATIONS, ITEM 247, TYPE A, GRADES 1 OR 2.
- THE MOISTURE CONTENT OF THE FILL SHOULD BE MAINTAINED WITHIN THE RANGE OF OPTIMUM WATER CONTENT TO 3 PERCENTAGE POINTS ABOVE THE OPTIMUM WATER CONTENT UNTIL PERMANENTLY COVERED.
- IN THE EVENT THAT THE CLAY FILL USED IS DIFFERENT THAN THE EXISTING SUBGRADE, THE RECOMMENDATIONS IN THE GEOTECHNICAL REPORT COULD BE INVALIDATED AND THE DESIGN ENGINEER MUST BE CONSULTED TO DETERMINE IF ADDITIONAL CBR TESTING AND THICKER PAVEMENT SECTIONS ARE REQUIRED.
- WHERE PAVEMENT SUBGRADE IS LOCATED WITHIN 2-FEET OF THE EXISTING GROUND SURFACE (STRATUM 1 CLAYS), MOISTURE CONDITIONED SUBGRADE WILL BE REQUIRED. GEOTECHNICAL ENGINEER SHOULD VERIFY THE STREET SUBGRADE AT THE TIME OF CONSTRUCTION PRIOR TO PLACEMENT OF AGGREGATE BASE TO DETERMINE WHERE THE MOISTURE CONDITIONED SUBGRADE IS NEEDED. REFERENCE GEOTECHNICAL ENGINEERING REPORT FOR MORE INFORMATION.
- THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING ALL MATERIAL TESTING WITH THE PROJECT GEOTECHNICAL ENGINEER. TESTING SHALL BE PAID FOR BY THE OWNER.
- FILL MATERIAL SHOULD BE NATIVE ON-SITE MATERIAL, FREE OF DELETERIOUS MATERIAL WITH A MINIMUM CBR VALUE OF 5.0 AND A PI LESS THAN OR EQUAL TO 20. THE GRAVEL SIZE SHOULD NOT EXCEED 3 INCHES IN DIAMETER. LIME OR CEMENT APPLICATION RATES SHOULD BE RE-EVALUATED FOR THE FILL MATERIAL. THE MATERIAL SHOULD BE PLACED AS PER APPLICABLE CITY OR COUNTY GUIDELINES. CONTRACTOR TO VERIFY EXACT SPECIFICATIONS WITH PROJECT GEOTECHNICAL ENGINEERING REPORT.

STREET SUBGRADE NOTES (*):

- IF THE STREET SUBGRADE PLASTICITY INDEX VALUE IS GREATER THAN 20, SUBGRADE TREATMENT IS NEEDED AS PER CITY OF SAN ANTONIO REQUIREMENTS.
- IF THE SUBGRADE PLASTICITY INDEX VALUE IS 20 OR LESS, SUBGRADE TREATMENT IS NOT NEEDED. THE SUBGRADE SHOULD BE MOISTURE CONDITIONED (COMPACTED TO A MINIMUM OF 95 PERCENT OF THE MAXIMUM DRY DENSITY AT A MINIMUM MOISTURE CONTENT OF OPTIMUM PLUS 2 PERCENT (TEXT114E)).
- THE SUBGRADE SHOULD BE TREATED USING 6 PERCENT LIME TO A DEPTH OF 6 INCHES AS NOTED ABOVE.
- THE SUBGRADE SOILS SHOULD BE TESTED FOR SOIL SULFATE CONTENT PRIOR TO STABILIZATION. IF THE SOIL SULFATE CONTENT IS HIGH, AN ALTERNATE PROCEDURE / RECOMMENDATION WILL BE NEEDED.
- LIME APPLICATION RATE OF 27 LBS PER SQ YARD FOR 6 INCH DEPTH OF TREATMENT IS RECOMMENDED.
- APPROVED FILL MATERIAL SHOULD BE USED TO RAISE THE GRADE. THE FILL SHOULD BE FREE OF DELETERIOUS MATERIAL WITH A MINIMUM CBR VALUE OF 5.0 AND PLASTICITY INDEX VALUES OF 20 OR LESS. LIME APPLICATION RATES SHOULD BE RE-EVALUATED AND TESTED FOR SULFATE CONTENT PRIOR TO USE OF THE FILL MATERIAL. THE MATERIAL SHOULD BE PLACED AS PER APPLICABLE CITY OR COUNTY GUIDELINES.
- THE SUBGRADE SHOULD BE PROOF ROLLED TO IDENTIFY SOFT AREAS BEFORE STABILIZATION.

LIME NOTES:

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



DATE	
NO.	
REVISION	



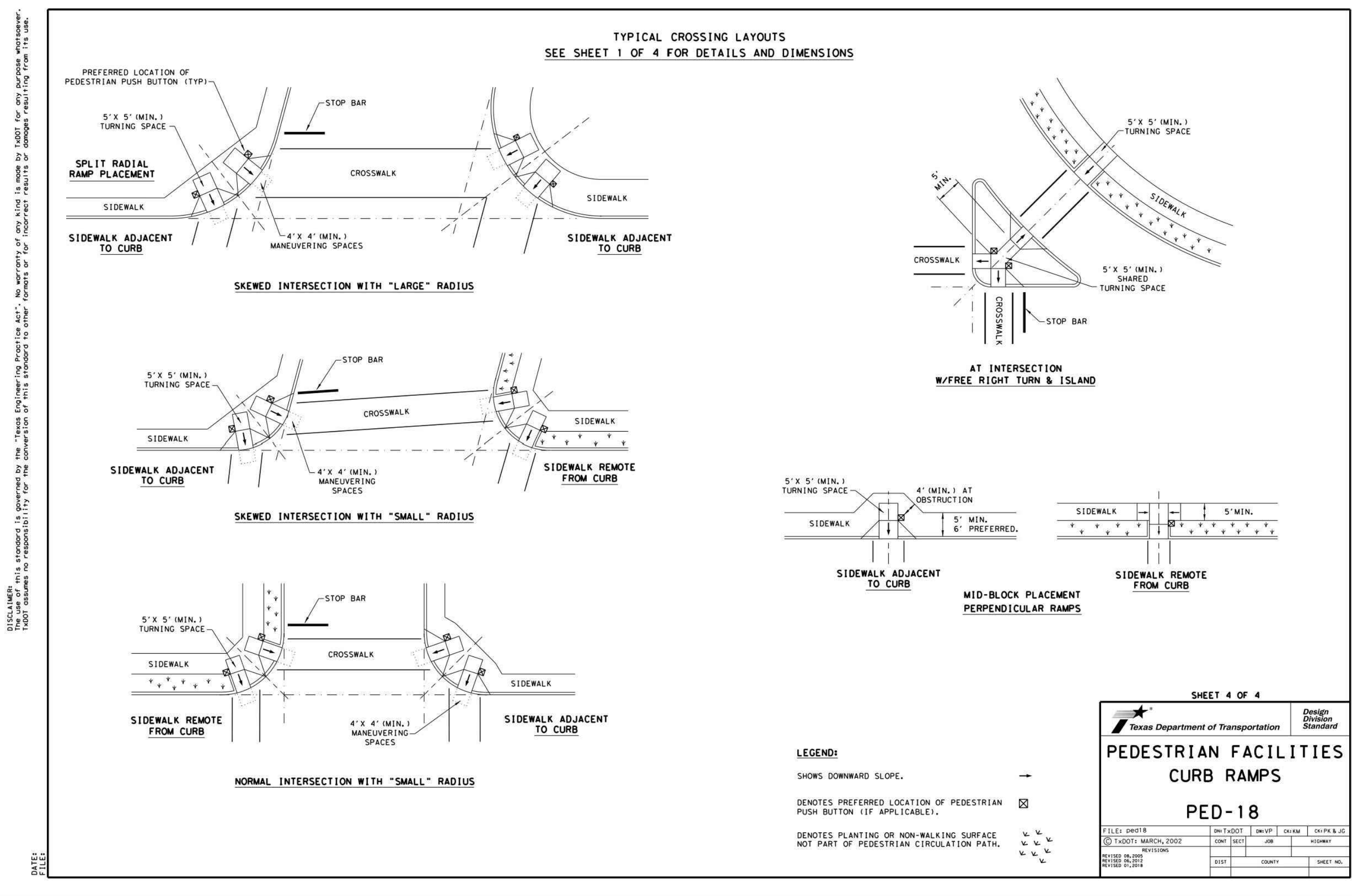
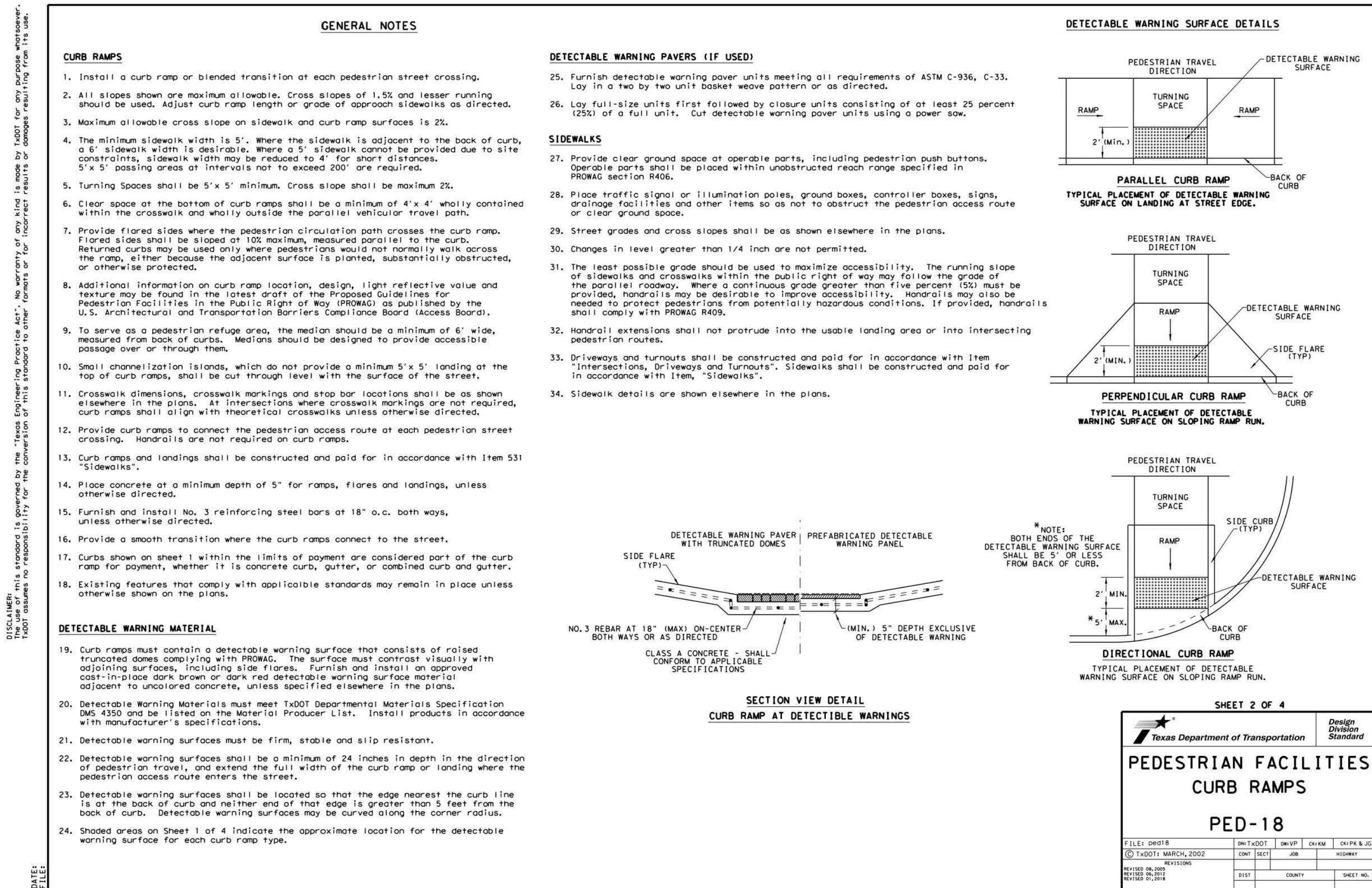
PAPE-DAWSON ENGINEERS

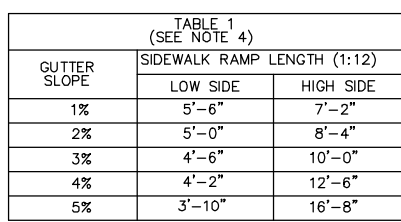
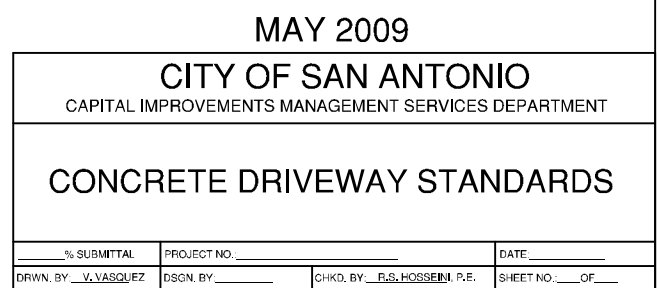
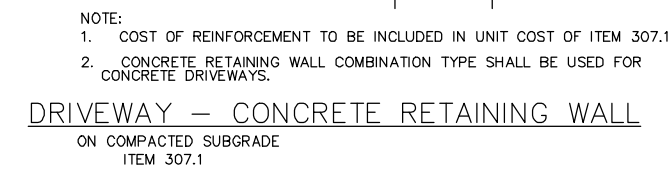
SAN ANTONIO | AUSTIN | HOUSTON | FORT WORTH | DALLAS
2000 HW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000
TEXAS ENGINEERING FIRM #470 | TEXAS SURVEYING FIRM #10028890

KINDER SUNDAY CREEK - PHASE I
SAN ANTONIO, TEXAS

STREET DETAILS

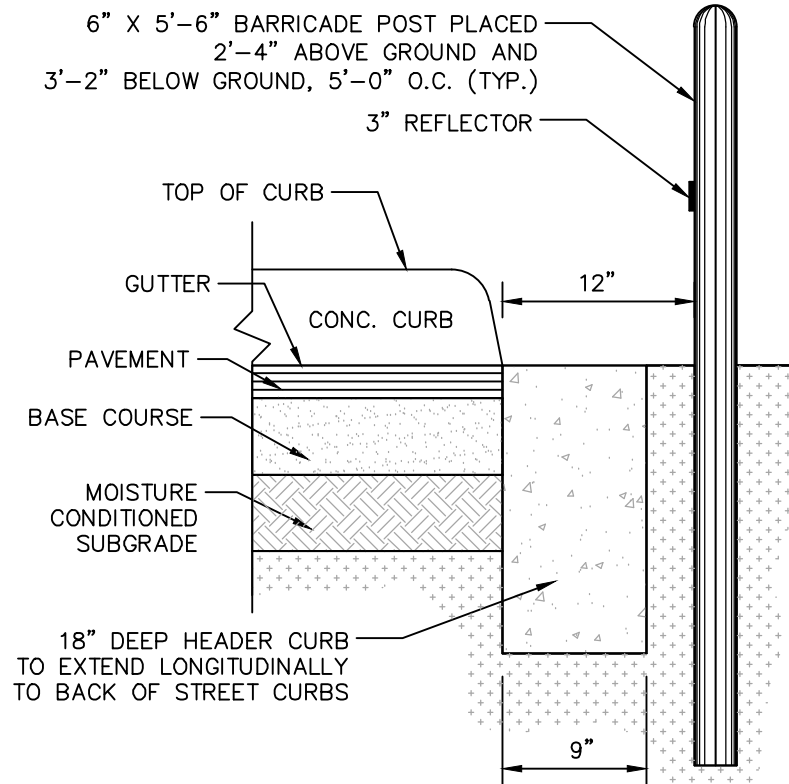
PLAT NO.	22-11800791
JOB NO.	8802-59
DATE	MARCH 2024
DESIGNER	UV
CHECKED	AS
DRAWN	RD
SHEET	C2.10



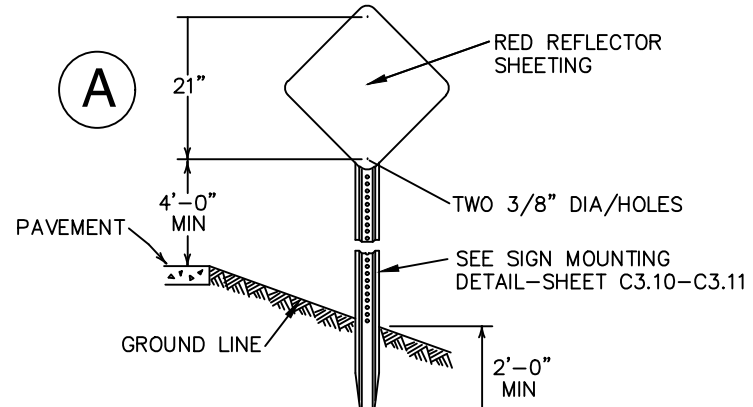


CUTTER SLOPE	SIDEWALK RAMP LENGTH (1:12)	
	LOW SIDE	HIGH SIDE
1%	5'-6"	7'-2"
2%	5'-0"	8'-4"
3%	4'-6"	10'-0"
4%	4'-2"	12'-6"
5%	3'-10"	16'-8"

CUTTER SLOPE	SIDEWALK RAMP LENGTH (1:12)	
	LOW SIDE	HIGH SIDE
1%	5'-6"	7'-2"
2%	5'-0"	8'-4"
3%	4'-6"	10'-0"
4%	4'-2"	12'-6"
5%	3'-10"	16'-8"



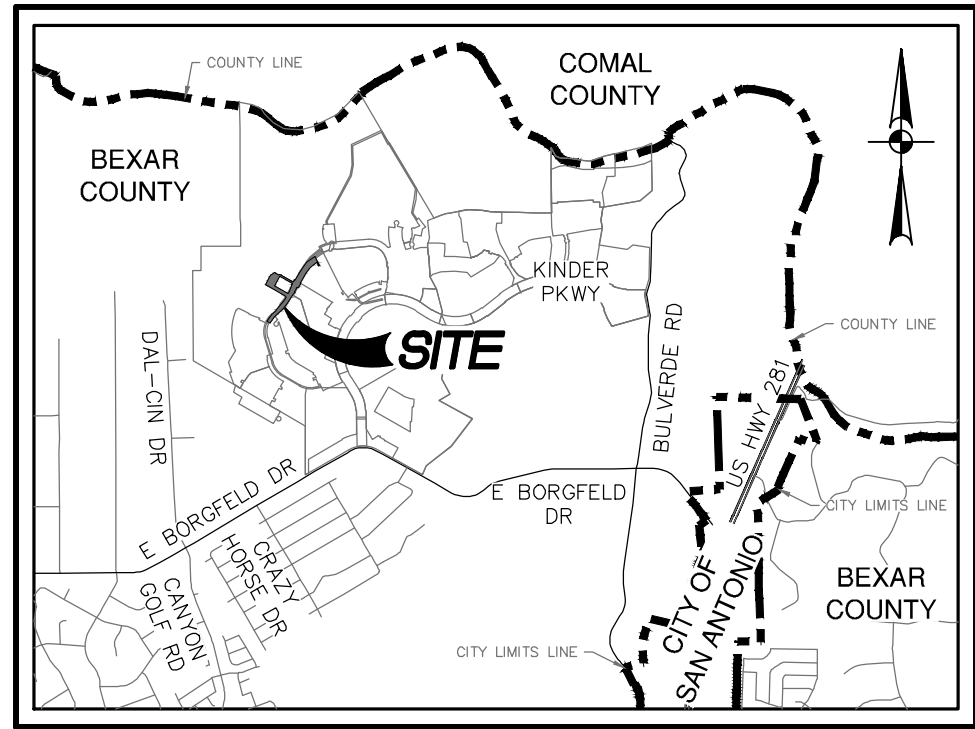
HEADER CURB & BARRICADE POST DETAIL
NOT-TO-SCALE



UNITS MOUNTED ON 0.080" THICK SHEET ALUMINUM
CONFORMING WITH ASTM B-209 ALLOY
6061-T6.

TYPE 4 OM4-3
18" x 18"

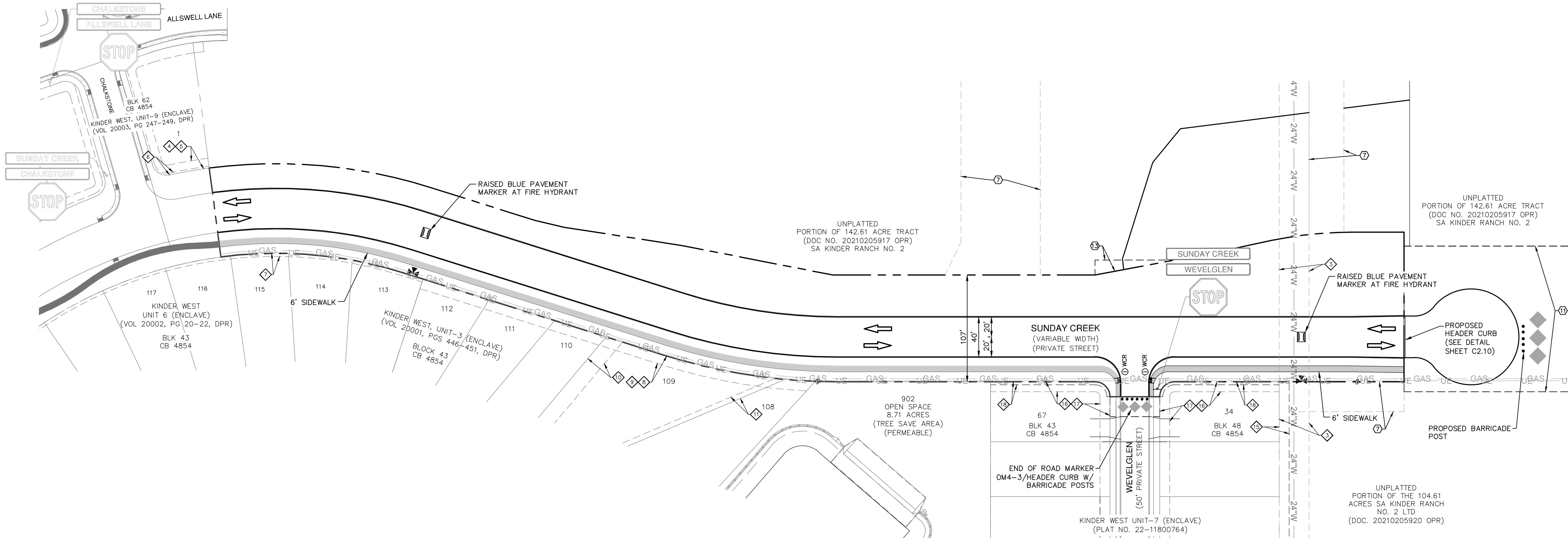
OBJECT MARKER TYPE 4
NOT-TO-SCALE



LOCATION MAP
NOT-TO-SCALE



SYMBOL	ITEM NUMBER
UNIT BOUNDARY	
TYPE II BLUE RAISED PAVEMENT MARKERS - NO SEPARATE PAY ITEM	
END OF ROAD MARKER OM4-3	531.56
HEADER CURB W/ BARRICADE POSTS	
9" STREET SIGN	531.57
PROPOSED DRIVEWAY	
TRAFFIC FLOW ARROW	
R1-1 30"x30"	531.3
SIDEWALK (DEVELOPER RESPONSIBILITY)	



- 10' GAS ELECTRIC, TELEPHONE AND CABLE TV EASEMENT (KINDER WEST, UNIT-2 (ENCLAVE) (VOL 9727, PGS 7-12, DPR))
- 10' BUILDING SETBACK (KINDER WEST, UNIT-2 (ENCLAVE) (VOL 9727, PGS 7-12, DPR))
- VARIABLE WIDTH WATER EASEMENT (VOL 18673, PGS 1-81, DPR)
- 10' ELECTRIC, GAS, TELEPHONE & CABLE TV EASEMENT (KINDER WEST, UNIT-3 (ENCLAVE) (VOL 20003, PGS 247-249, DPR))
- 10' BUILDING SETBACK LINE (KINDER WEST, UNIT-3 (ENCLAVE) (VOL 20003, PGS 247-249, DPR))
- 1' VEHICLE NON ACCESS EASEMENT (NOT-TO-SCALE) (KINDER WEST, UNIT-3 (ENCLAVE) (VOL 20003, PGS 247-249, DPR))
- 1' VEHICLE NON ACCESS EASEMENT (NOT-TO-SCALE) (KINDER WEST, UNIT-6 (ENCLAVE) (VOL 20002, PGS 20-22, DPR))
- 10' GAS, ELECTRIC, TELEPHONE AND CABLE TV EASEMENT (KINDER WEST, UNIT-3 (ENCLAVE) (VOL 20001, PGS 446-451, DPR))
- 10' BUILDING SETBACK LINE (KINDER WEST, UNIT-3 (ENCLAVE) (VOL 20001, PGS 446-451, DPR))
- 12' SANITARY SEWER EASEMENT (KINDER WEST, UNIT-3 (ENCLAVE) (VOL 20001, PGS 446-451, DPR))
- 5' GAS, ELECTRIC, TELEPHONE AND CABLE TV EASEMENT (KINDER WEST, UNIT-3 (ENCLAVE) (VOL 20001, PGS 446-451, DPR))
- 1' VEHICLE NON ACCESS EASEMENT (NOT-TO-SCALE) (KINDER WEST, UNIT-2 (ENCLAVE) (VOL 9727, PGS 7-12, DPR))
- 10' DRAINAGE EASEMENT (PERMEABLE) (OFF-LOT) (PLAT NO. 22-11800764) (CONCURRENT PLAT)
- 10' GAS ELECTRIC, TELEPHONE AND CABLE TV EASEMENT (KINDER WEST, UNIT-7 (ENCLAVE) (PLAT NO. 22-11800764) (CONCURRENT PLAT))
- 10' BUILDING SETBACK (KINDER WEST, UNIT-7 (ENCLAVE) (PLAT NO. 22-11800764) (CONCURRENT PLAT))
- 1' VEHICULAR NON-ACCESS EASEMENT (NOT-TO-SCALE) (PLAT NO. 22-11800764) (CONCURRENT PLAT)
- VARIABLE WIDTH ELECTRIC EASEMENT (OFF-LOT) (0.86 OF AN ACRE) (KINDER WEST, UNIT-3 (ENCLAVE) (VOL 20001, PGS 446-451, DPR))
- VARIABLE WIDTH ACCESS, SANITARY SEWER, FORCE MAIN, WATER, DRAINAGE, GAS, ELECTRIC, TELEPHONE AND CABLE TV EASEMENT TO EXPIRE UPON INCORPORATION INTO PLATTED PRIVATE STREET (OFF-LOT) (PERMEABLE) (5.74 ACRES) (VOLUME 9722, PAGES 49-53 DPR)
- VARIABLE WIDTH DRAINAGE EASEMENT (PERMEABLE) (OFF LOT) (2.885 OF AN ACRE)
- VARIABLE WIDTH DRAINAGE, TURNAROUND, ACCESS AND UTILITY EASEMENT TO EXPIRE UPON PLATTING OF FUTURE PRIVATE STREET (PERMEABLE) (OFF LOT) (2.437 OF AN ACRE)
- 28' PERMANENT ELECTRIC EASEMENT (PERMEABLE) (OFF LOT) (0.058 OF AN ACRE)
- VARIABLE WIDTH PERMANENT GAS, TELEPHONE, ELECTRIC, AND CABLE TV EASEMENT (PERMEABLE) (OFF LOT)

DRIVEWAY NOTE:

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

TRENCH EXCAVATION SAFETY PROTECTION:

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

PAPE-DAWSON
ENGINEERS

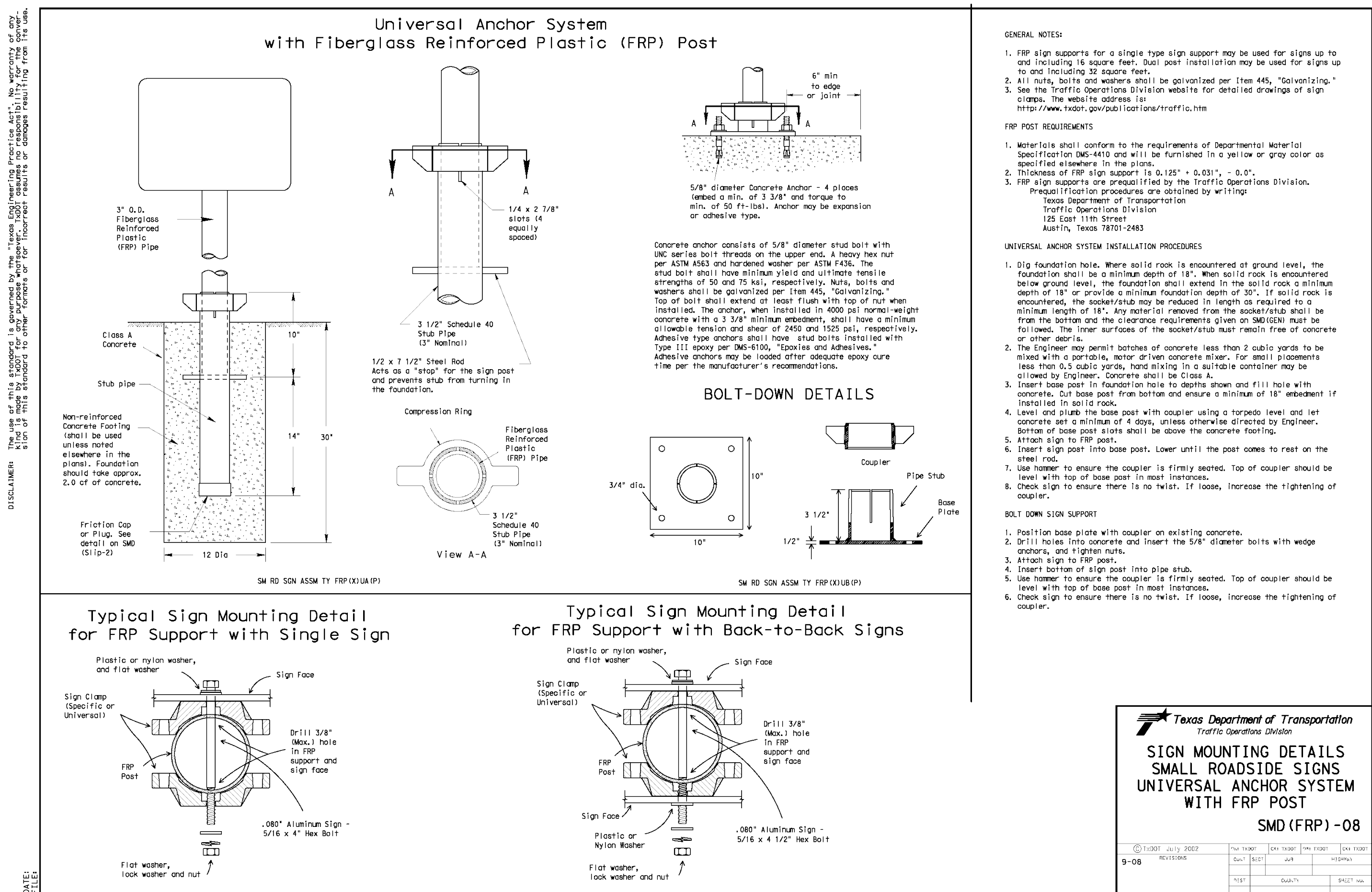
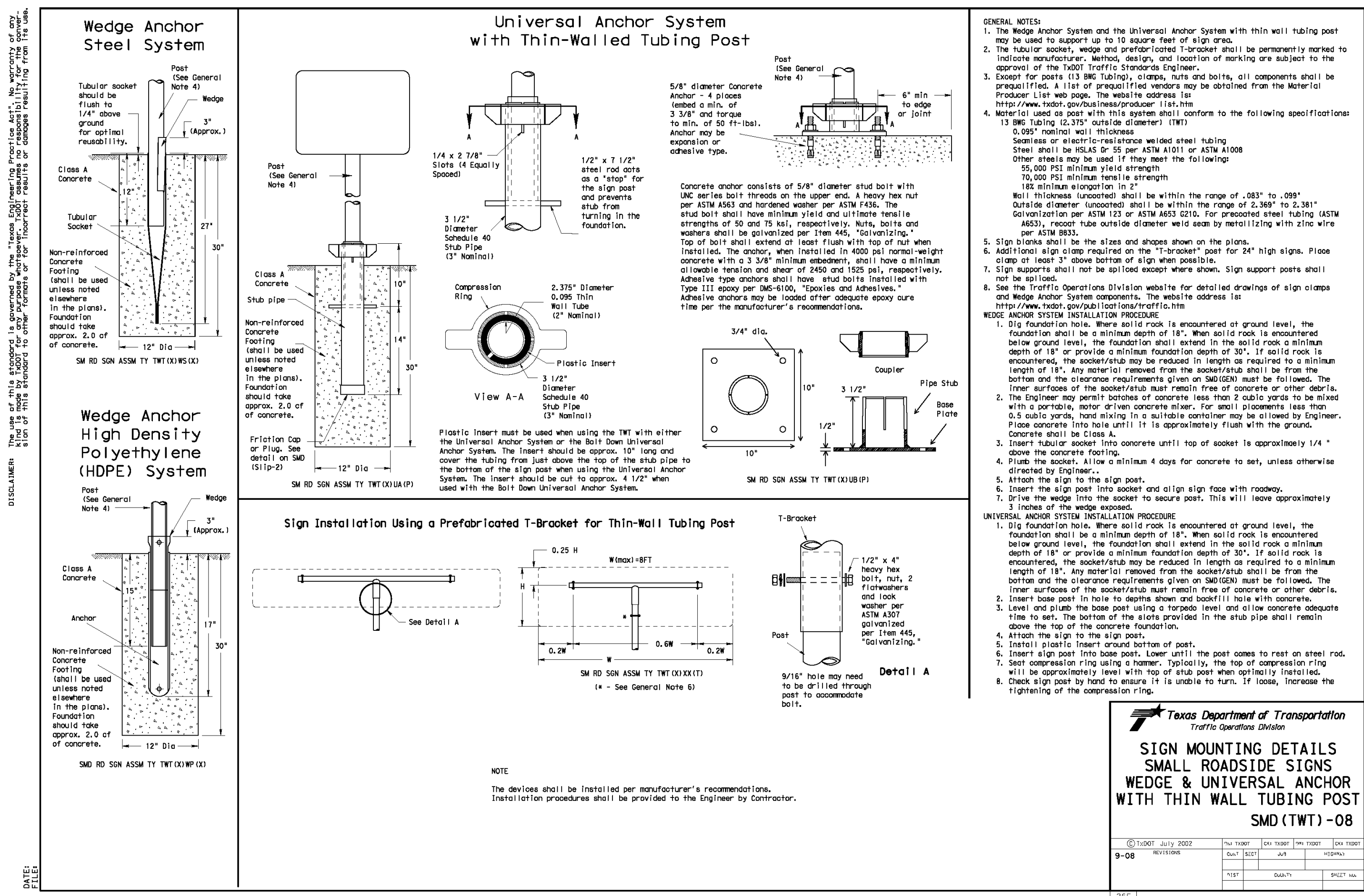
SAN ANTONIO | AUSTIN | HOUSTON | FORT WORTH | DALLAS
2000 HW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000
TEXAS ENGINEERING FIRM #470 | TEXAS SURVEYING FIRM #10028800

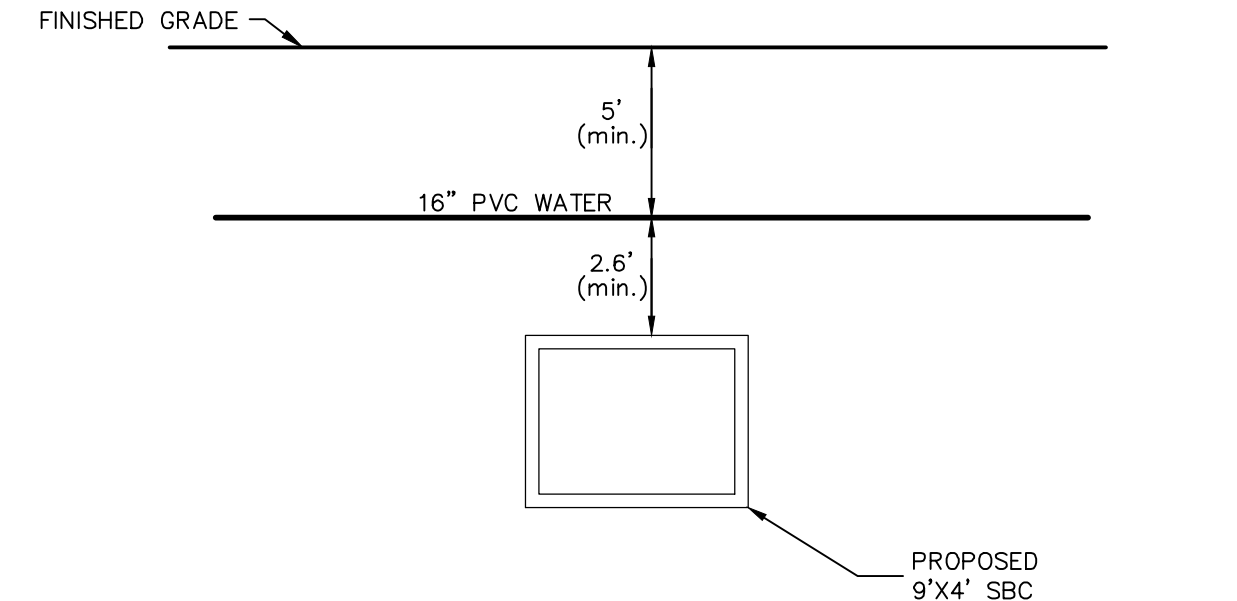
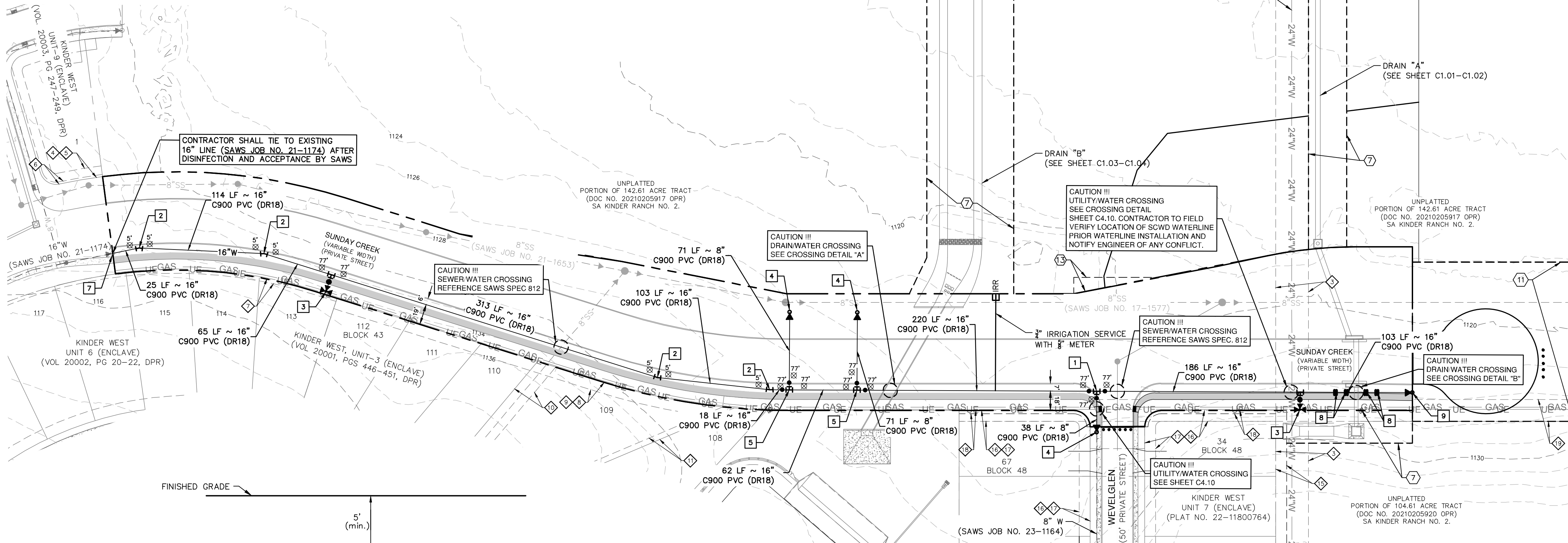
KINDER SUNDAY CREEK - PHASE I

SAN ANTONIO, TEXAS

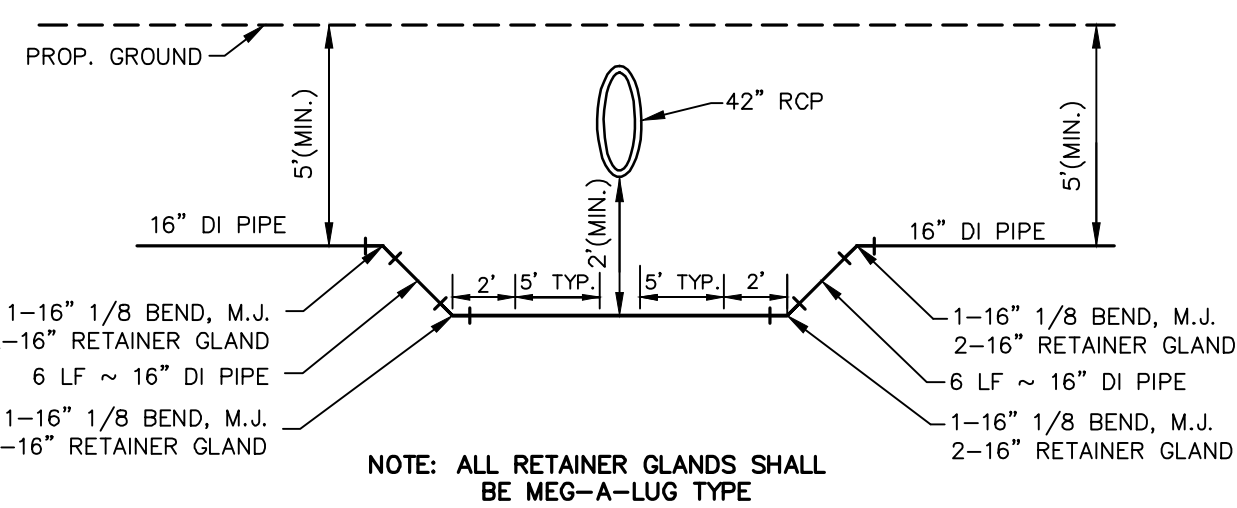
OVERALL SIGNAGE PLAN

PLAT NO.	22-11800791
JOB NO.	8802-59
DATE	MARCH 2024
DRAWN BY	UV
CHECKED BY	AS
DATE	AS
SHEET	C3.00





WATER/DRAIN CROSSING DETAIL "A"
NOT TO SCALE



WATER/DRAIN CROSSING DETAIL "B"

- | | | | | | | | |
|-----|---|-----|---|-----|---|----|---|
| 10" | GAS, ELECTRIC, TELEPHONE AND CABLE T.V. EASEMENT KINDER WEST, UNIT-2 (ENCLAVE) (VOL 9727, PG 7-12, DPR) | 5" | GAS, ELECTRIC, TELEPHONE AND CABLE T.V. EASEMENT KINDER WEST, UNIT-3 (ENCLAVE) (VOL 2001, PGS 444-451, DPR) | 5' | VARIABLE WIDTH DRAINAGE EASEMENT (PERMEABLE) (OFF LOT) (2.885 OF AN ACRE) | 5' | 1-6" GATE VALVE, MJ
1-16" GATE VALVE, MJ
2-6" VALVE BOX, COMPLETE |
| 10" | 1" BUILDING SETBACK KINDER WEST, UNIT-2 (ENCLAVE) (VOL 9727, PG 7-12, DPR) | 1" | 1" VEHICLE NO ACCESS EASEMENT (NOT-TO SCALE) KINDER WEST, UNIT-2 (ENCLAVE) (VOL 9727, PGS 7-12, DPR) | 1" | VARIABLE WIDTH DRAINAGE, TURNAROUND ACCESS AND UTILITY EASEMENT TO EXPIRE UPON PLATTING OF FUTURE PRIVATE STREET (PERMANENT) (OFF LOT) (2.437 OF AN ACRE) | 6" | 1-16"x8" CROSS, MJ
1-6" GATE VALVE, MJ
2-16" GATE VALVE, MJ
3-6" VALVE BOX, COMPLETE |
| 10" | VARIABLE WIDTH WATER EASEMENT (VOL 18673, PG 1851, DPR) | 10" | 10" DRAINAGE EASEMENT (PERMEABLE) (OFF-LOT) (PLAT NO. 22-11800784) (CONCURRENT PLAT) | 10" | 28' PERMANENT ELECTRIC EASEMENT (PERMEABLE) (OFF LOT) (0.058 OF AN ACRE) | 7' | FOR CHLORINATION INJECTION: 2-1" CORPORATION STOP, C.C. x I.P.
2-1" COPPER TUBING, CUT AS REQUIRED
2-1" COMP. x 1 1/4" COUPLING, CORP.
2-1 1/4" THD SOLID CAPS, THRU
1-2" TEMPORARY BLOW OFF (SEE SAWS STD. DWG DD-844-01)
1-16" SLOD SLEEVE, MJ |
| 10" | 10" ELECTRIC, GAS, TELEPHONE & CABLE T.V. EASEMENT KINDER WEST UNIT 9 (ENCLAVE) (VOL 2003, PGS 247-249, DPR) | 10" | 10" GAS ELECTRIC, TELEPHONE AND CABLE T.V. EASEMENT KINDER WEST, UNIT-7 (ENCLAVE) (PLAT NO. 22-11800784) (CONCURRENT PLAT) | 10" | VARIABLE WIDTH PERMANENT GAS, TELEPHONE, ELECTRIC, AND CABLE T.V. EASEMENT (PERMEABLE) (OFF LOT) (0.014 OF AN ACRE) | 8" | 1-16" 1/81 VERTICAL BEND, MJ |
| 10" | 10" BUILDING SETBACK KINDER WEST UNIT 9 (ENCLAVE) (VOL 2003, PGS 247-249, DPR) | 1" | 1" BUILDING SETBACK KINDER WEST, UNIT-7 (ENCLAVE) (PLAT NO. 22-11800784) (CONCURRENT PLAT) | 1" | 1-16"x8" ANCHOR TEE, MJ
2-16" GATE VALVE, MJ
3-6" VALVE BOX, COMPLETE | 9" | 1-16"x2" ECC. TAPPED CAP, MJ
1-2" PERMANENT BLOW-OFF ASSEMBLY (SEE SAWS STD DETAIL DD-844-02) |
| 1" | 1" VEHICLE NO ACCESS EASEMENT (NOT-TO SCALE) KINDER WEST, UNIT-9 (ENCLAVE) (VOL 2003, PGS 247-249, DPR) | 1" | 1" VEHICLE NO ACCESS EASEMENT (NOT-TO SCALE) KINDER WEST, UNIT-6 (ENCLAVE) (VOL 2002, PGS 20-22, DPR) | 1" | 2-16" 1/32 BEND, MJ | | |
| 1" | 1" VEHICLE NO ACCESS EASEMENT (NOT-TO SCALE) KINDER WEST, UNIT-6 (ENCLAVE) (VOL 2002, PGS 20-22, DPR) | 1" | 1" VEHICLE NO ACCESS EASEMENT (NOT-TO SCALE) KINDER WEST, UNIT-5 (ENCLAVE) (VOL 2001, PGS 444-451, DPR) | 2" | 1-16"x8" ANCHOR TEE, MJ
1-STD. FIRE HYDRANT ASSEMBLY
1-6" GATE VALVE, MJ
1-6" 1/2 BEND, MJ
1-STD. FIRE HYDRANT
6" D.I. PIPE, CUT AND RESTRAIN AS REQUIRED (SEE SAWS STD DWG DD-834-01) | | |
| 10" | 10" GAS, ELECTRIC, TELEPHONE AND CABLE T.V. EASEMENT KINDER WEST, UNIT-5 (ENCLAVE) (VOL 2001, PGS 444-451, DPR) | 10" | VARIABLE WIDTH ELECTRIC EASEMENT (OFF-LOT) (0.86 OF AN ACRE) KINDER WEST, UNIT-5 (ENCLAVE) (VOL 2001, PGS 444-451, DPR) | 3" | 1-16"x2" BEND, MJ | | |
| 10" | 10" BUILDING SETBACK LINE KINDER WEST, UNIT-3 (ENCLAVE) (VOL 2001, PGS 444-451, DPR) | 10" | VARIABLE WIDTH ACCESS, SANITARY SEWER, FORCE MAIN, WATER, DRAINAGE, GAS, ELECTRIC, TELEPHONE AND CABLE T.V. EASEMENT TO EXPIRE UPON INCORPORATION INTO PLATTED PRIVATE STREET (OFF-LOT) (PERMEABLE) (5.74 ACRES) (VOLUME 9722, PAGES 49-53 DPR) | 4" | 1-8"x2" ECC. REDUCER, MJ
1-2" PERMANENT BLOW OFF ASSEMBLY (SEE SAWS STD DETAIL DD-844-02) | | |
| 10" | 5' SANITARY SEWER EASEMENT KINDER WEST, UNIT-3 (ENCLAVE) (VOL 2001, PGS 444-451, DPR) | | | | | | |

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

PRIVATE STREET NOTE:

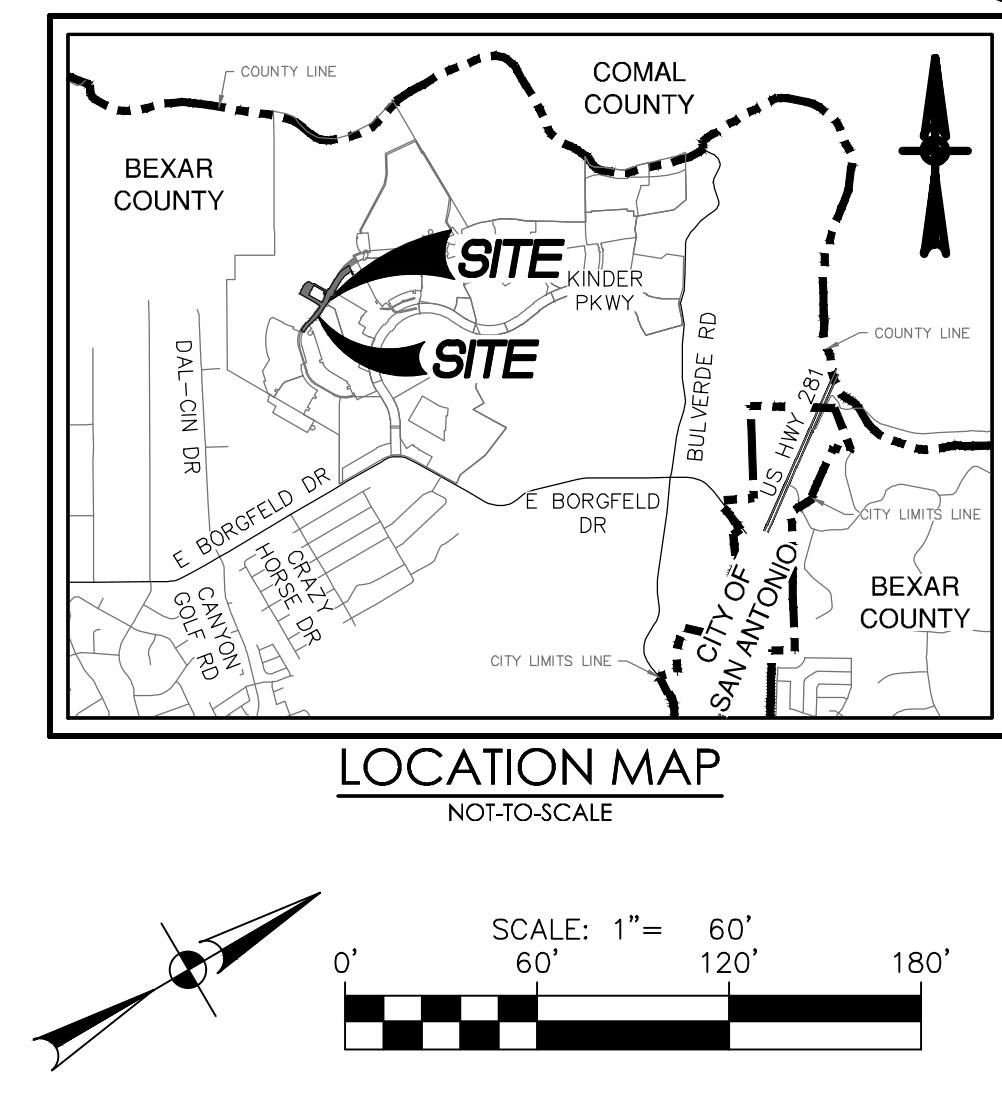
THE LOT 999, BLOCK 65, COUNTY BLOCK 4854, (**SUNDAY CREEK**) IS A PRIVATE STREET AND IS ALSO DESIGNATED AS AN UNDERGROUND ELECTRIC GAS, TELEPHONE, CABLE TV, DRAINAGE, WATER, PEDESTRIAN AND/OR SANITARY SEWER EASEMENT, THEREFORE, SUCH AREAS SHALL BE DEEMED TO HAVE BEEN DEDICATED TO THE PUBLIC FOR SUCH EASEMENTS AND PRIVATE STREETS.

FIRE FLOW NOTE:

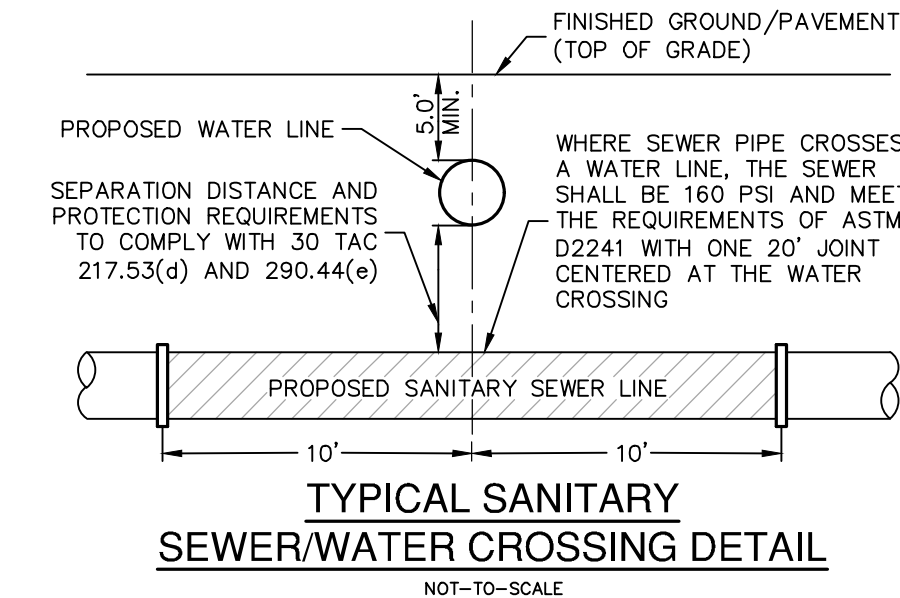
IN AN EFFORT TO MEET THE CITY OF SAN ANTONIO'S FIRE FLOW REQUIREMENTS FOR THE PROPOSED RESIDENTIAL DEVELOPMENT, THE PUBLIC WATER MAIN SYSTEM HAS BEEN DESIGNED FOR A MINIMUM FIRE FLOW DEMAND OF 1500 GPM AT 25 PSI RESIDUAL PRESSURE. THE FIRE FLOW REQUIREMENTS FOR INDIVIDUAL STRUCTURES WILL BE REVIEWED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

JOINT RESTRAINT NOTE:

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



WATER LEGEND

[illegible]

PRESSURE NOTE:

CONTRACTOR TO VERIFY THAT NO PORTION OF THE TRACT IS BELOW GROUND ELEVATION OF 1215 FEET WHERE THE STATIC PRESSURE WILL NORMALLY EXCEED 80 PSI. AT ALL SUCH LOCATIONS WHERE THE GROUND LEVEL IS BELOW 1215 FEET, THE DEVELOPER OR BUILDER SHALL INSTALL A PRESSURE REGULATOR ON THE CUSTOMER'S SIDE OF THE METER. AN APPROVED TYPE PRESSURE REGULATOR IN CONFORMANCE WITH THE PLUMBING CODE OF THE CITY OF SAN ANTONIO, NO DUAL SERVICES ALLOWED FOR ANY LOT(S) IF *PRV IS/ARE REQUIRED FOR SUCH LOT(S), ONLY SINGLE SERVICE CONNECTIONS SHALL BE ALLOWED.

*NOTE: A PRESSURE REGULATOR IS ALSO KNOWN AS A PRESSURE REDUCING VALVE (PRV).

TRENCH EXCAVATION SAFETY PROTECTION:

CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR STRUCTURAL DESIGN/ GEOTECHNICAL/ SAFETY/EQUIPMENT CONSULTANT IF ANY, SHALL REVIEW THESE PLANS AND ANY AVAILABLE GEOTECHNICAL INFORMATION AND THE NATIONAL INSTALLATION MANUAL WITHIN THE CONTRACT AREA IN ORDER TO IDENTIFY CONTRACTOR'S RESPONSIBILITIES FOR 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 FRENCH EXCAVATION SAFETY PROTECTION EMPLOYEES, SPECIFICALLY TRAINED AND CERTIFIED FOR FRENCH EXCAVATIONS. SPECIFICALLY, CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR SAFETY CONSULTANT SHALL IMPLEMENT A FRENCH SAFETY PROGRAM WHICH INCLUDES, BUT IS NOT LIMITED TO, THE PROTECTION OF THE ACTIVITIES OF INDIVIDUALS WORKING IN AND AROUND FRENCH EXCAVATION.

WATER (SAWS PRESSURE ZONE 1400 HGL)

DEVELOPER'S NAME: SA KINDER RANCH NO. 2 LTD
ADDRESS: 11 LYNN BATTS LANE, SUITE 100
CITY: SAN ANTONIO STATE: TEXAS ZIP: 78218
PHONE# (210) 828-6131 FAX# _____
SAWS BLOCK MAP# 166686 TOTAL EDU'S 1 TOTAL ACREAGE 0.243
TOTAL LINEAR FOOTAGE OF PIPE: 16' ~ 1210 LF PLAT NO. 22-11800791
NUMBER OF LOTS 0 SAWS JOB NO. 24-1039

[illegible]

**PAPE-DAWSON
ENGINEERS**

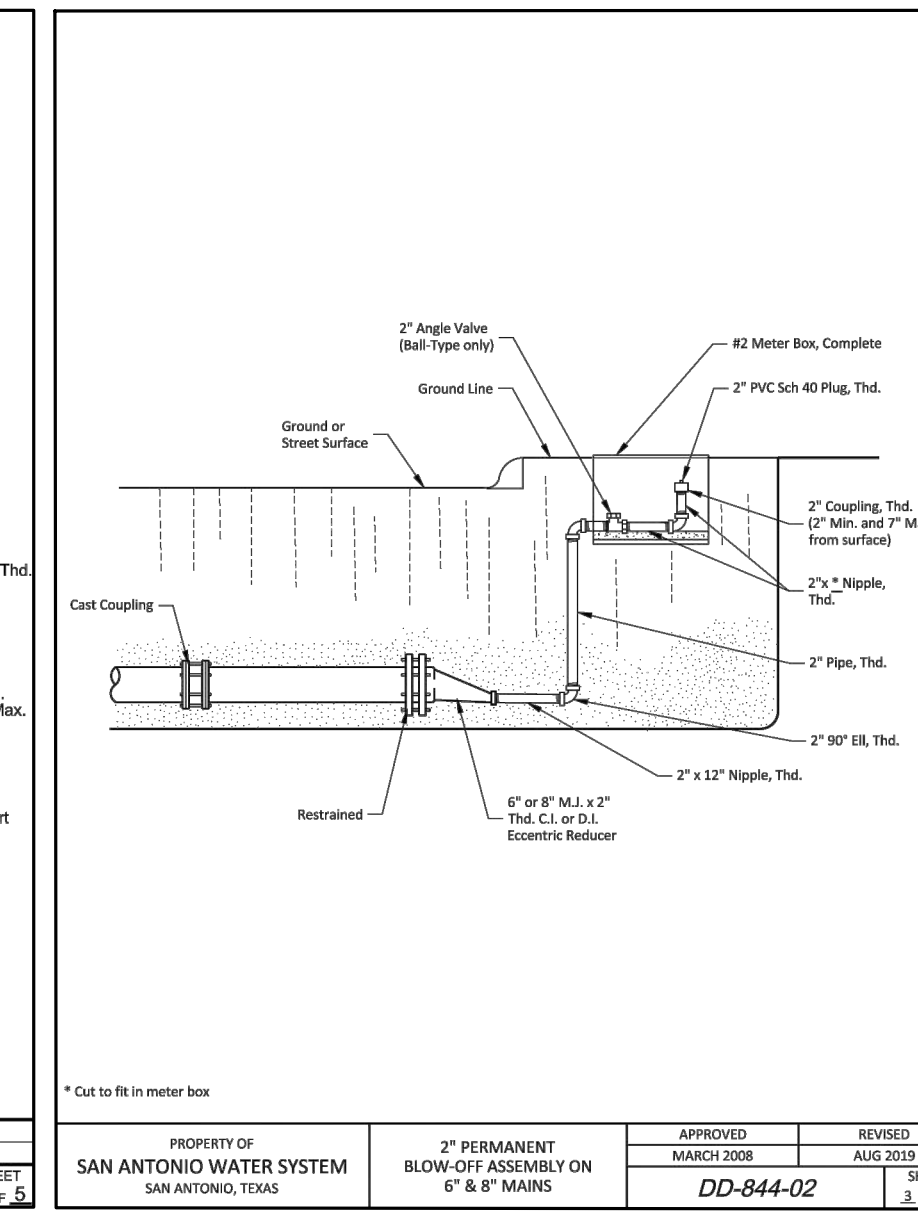
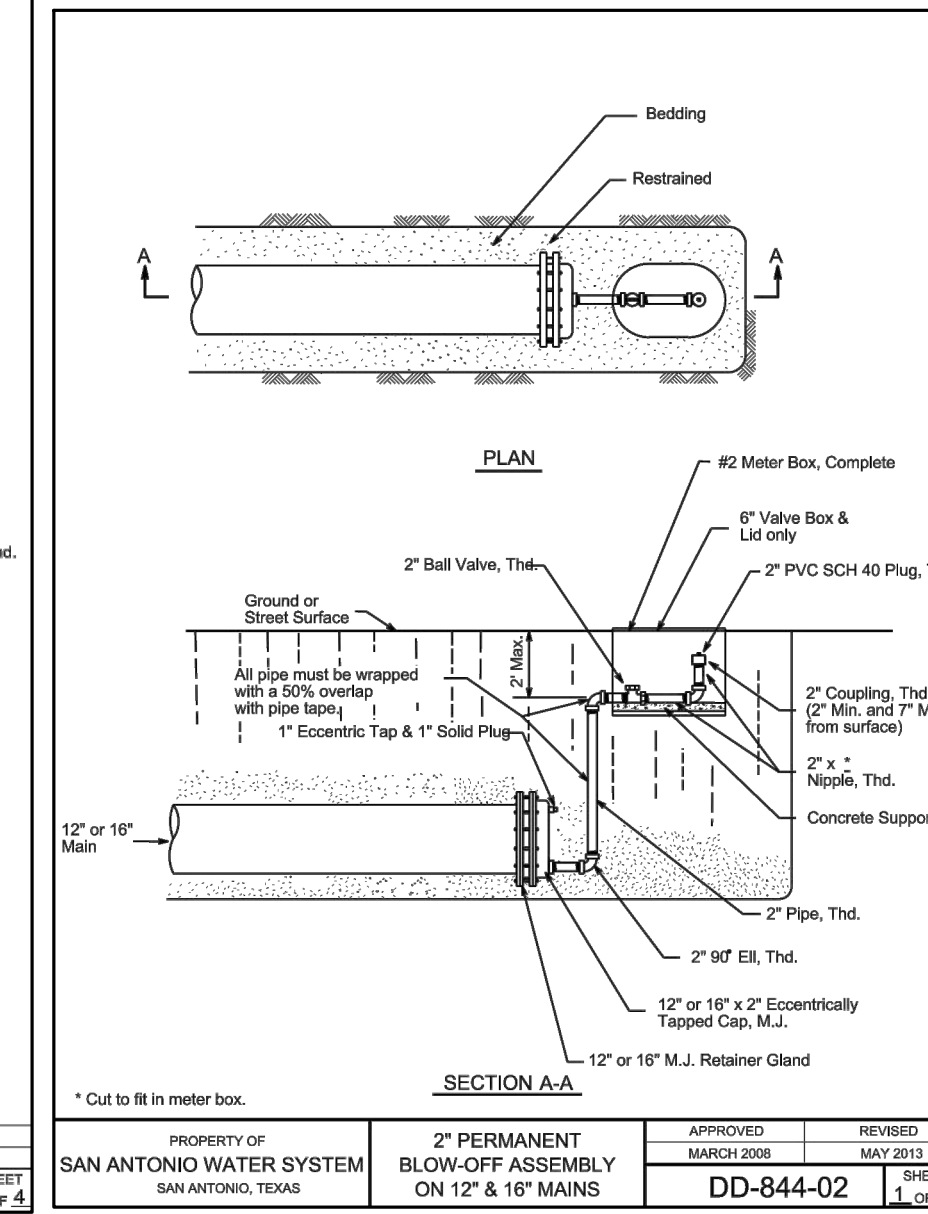
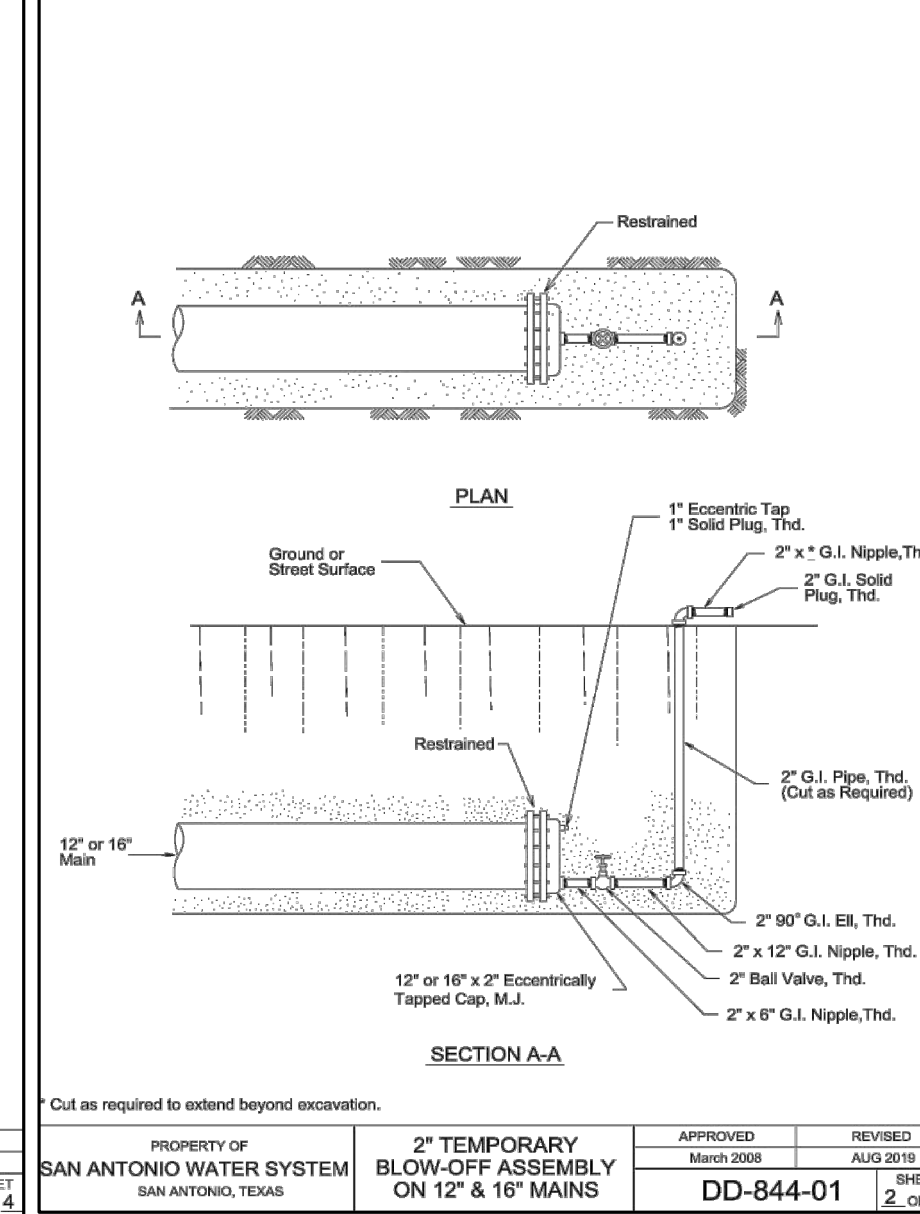
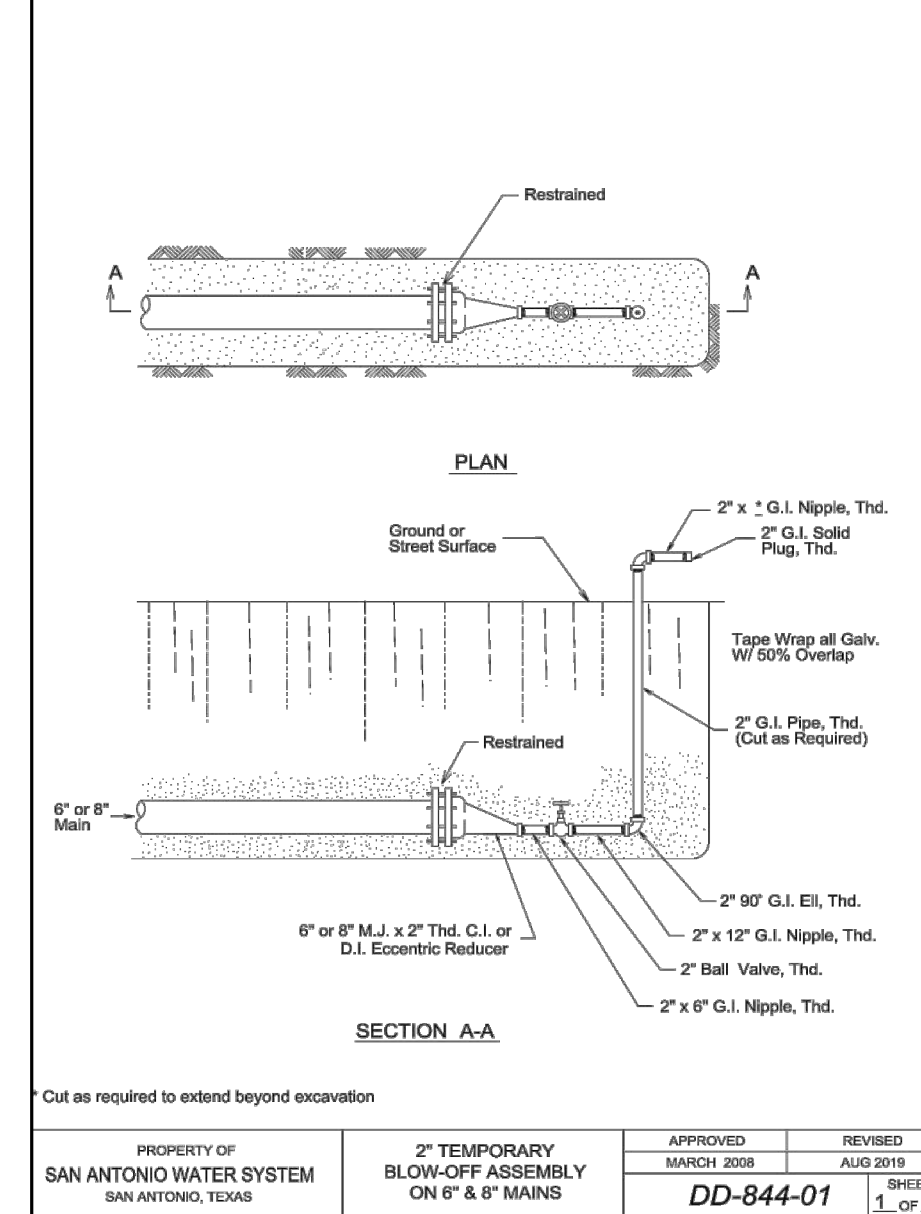
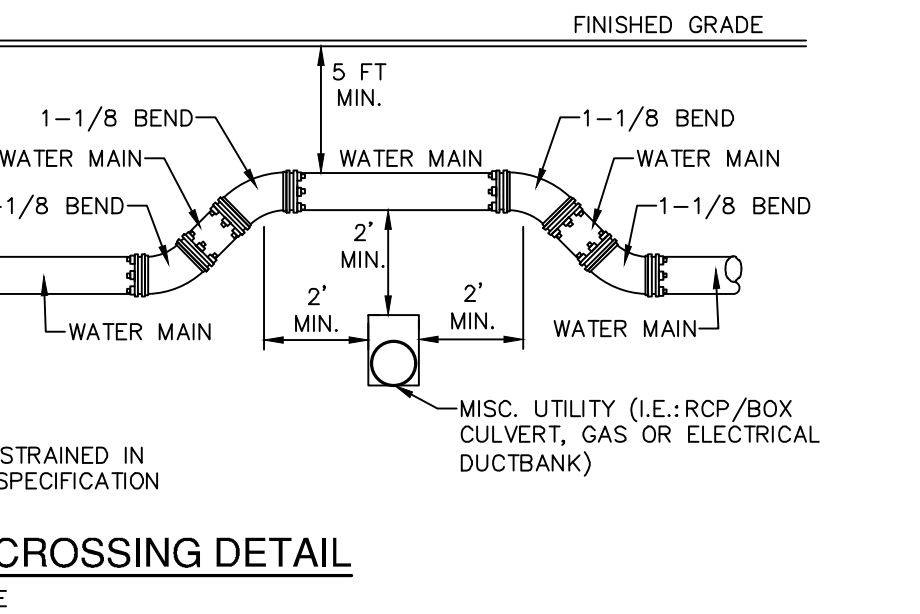
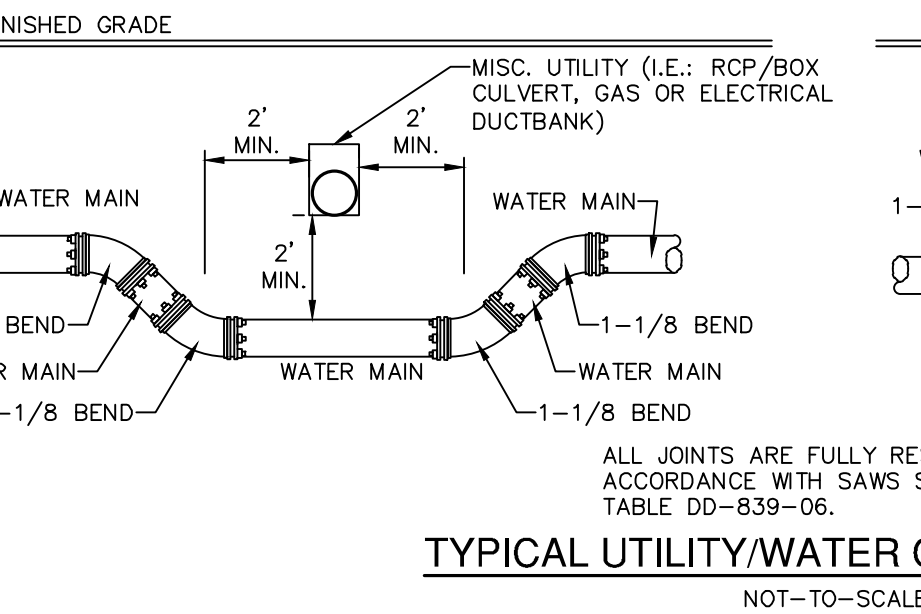
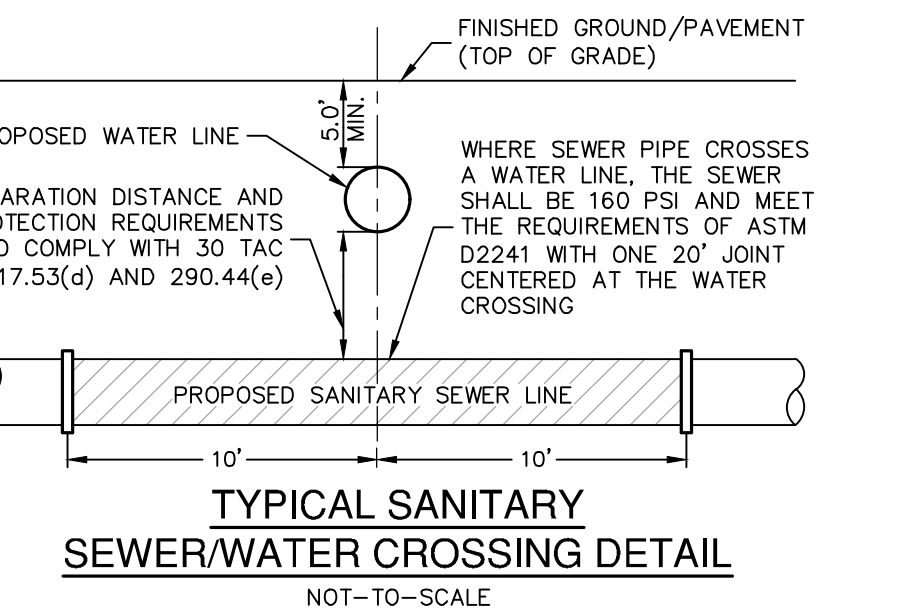
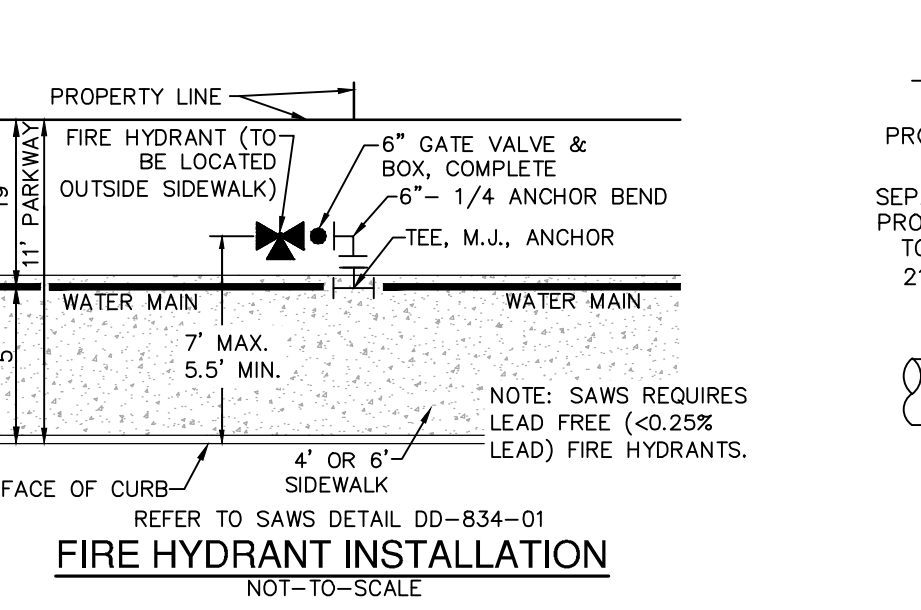
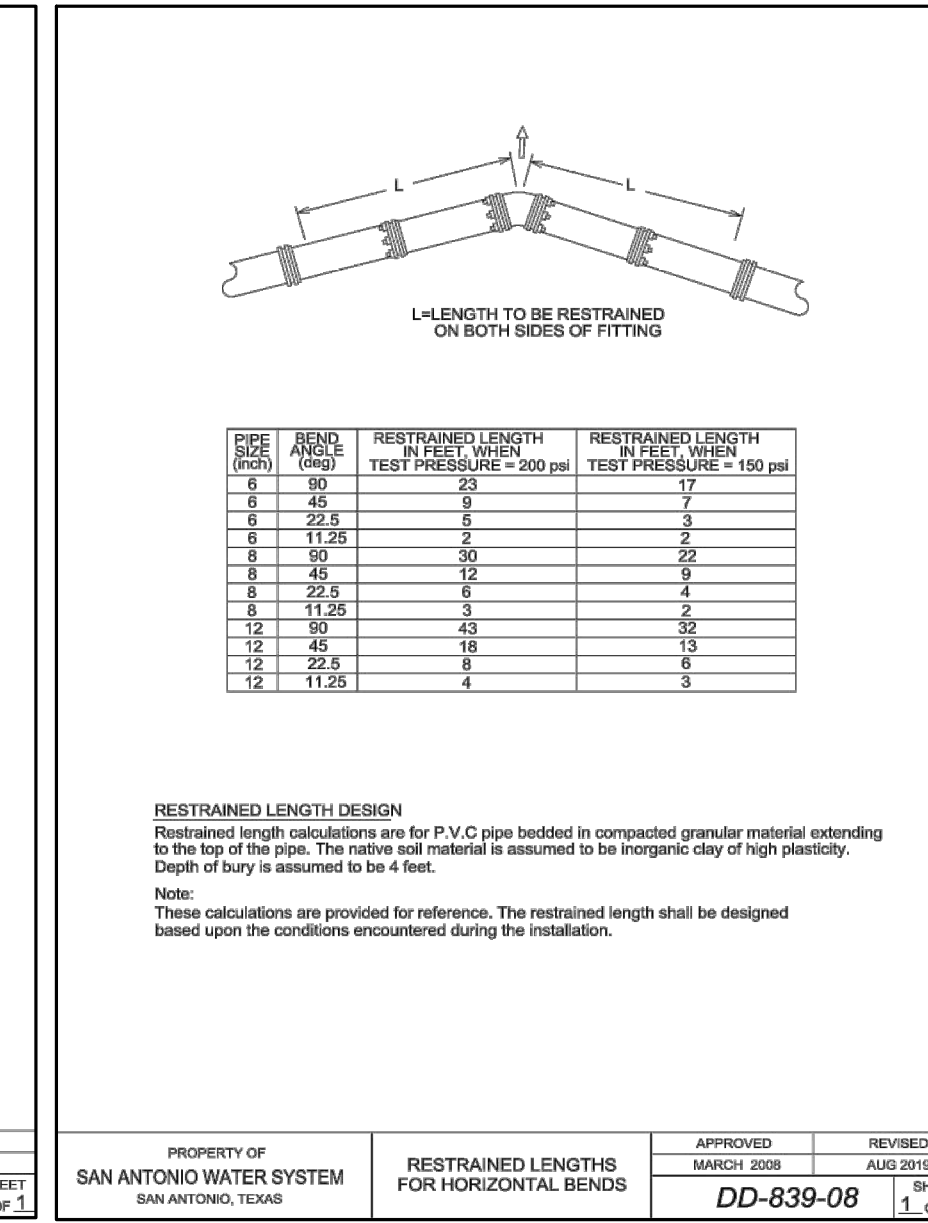
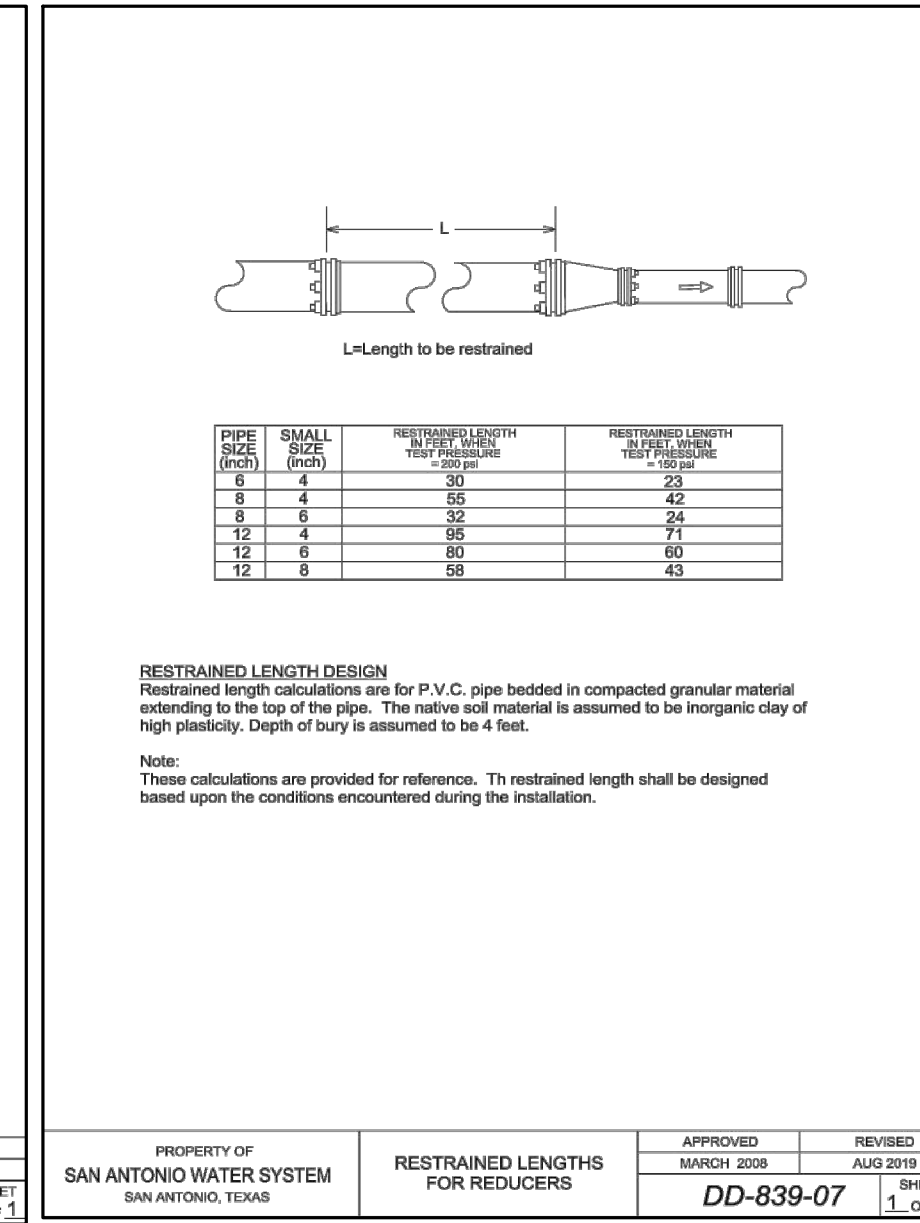
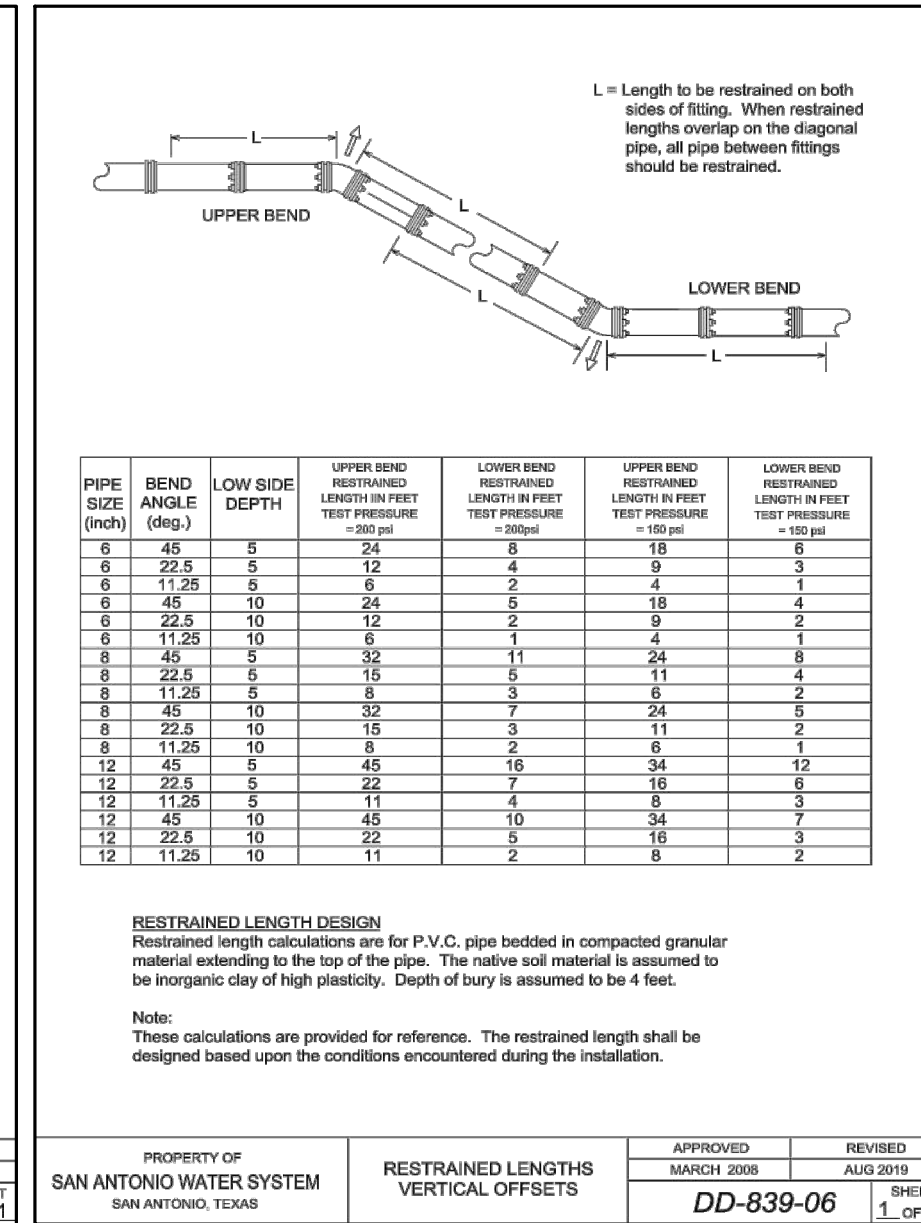
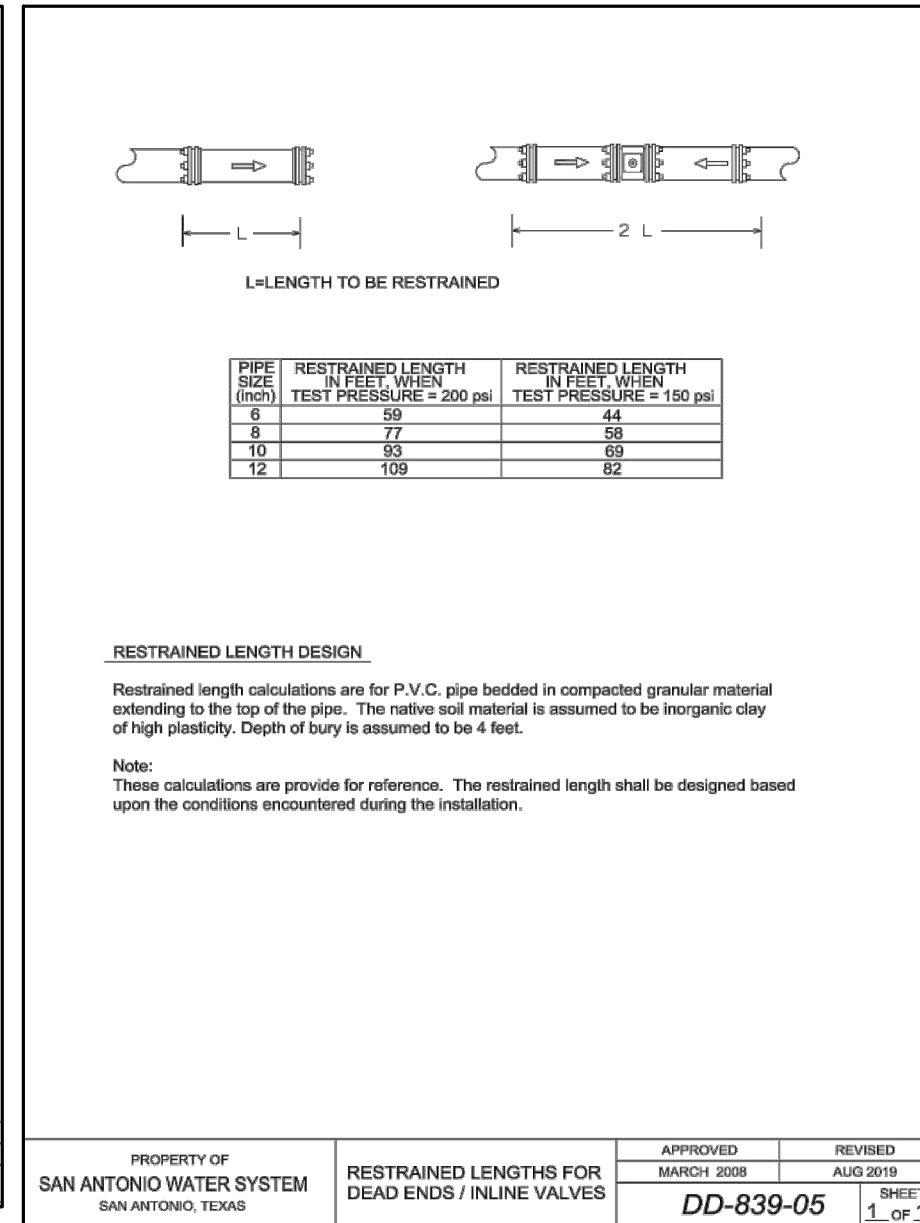
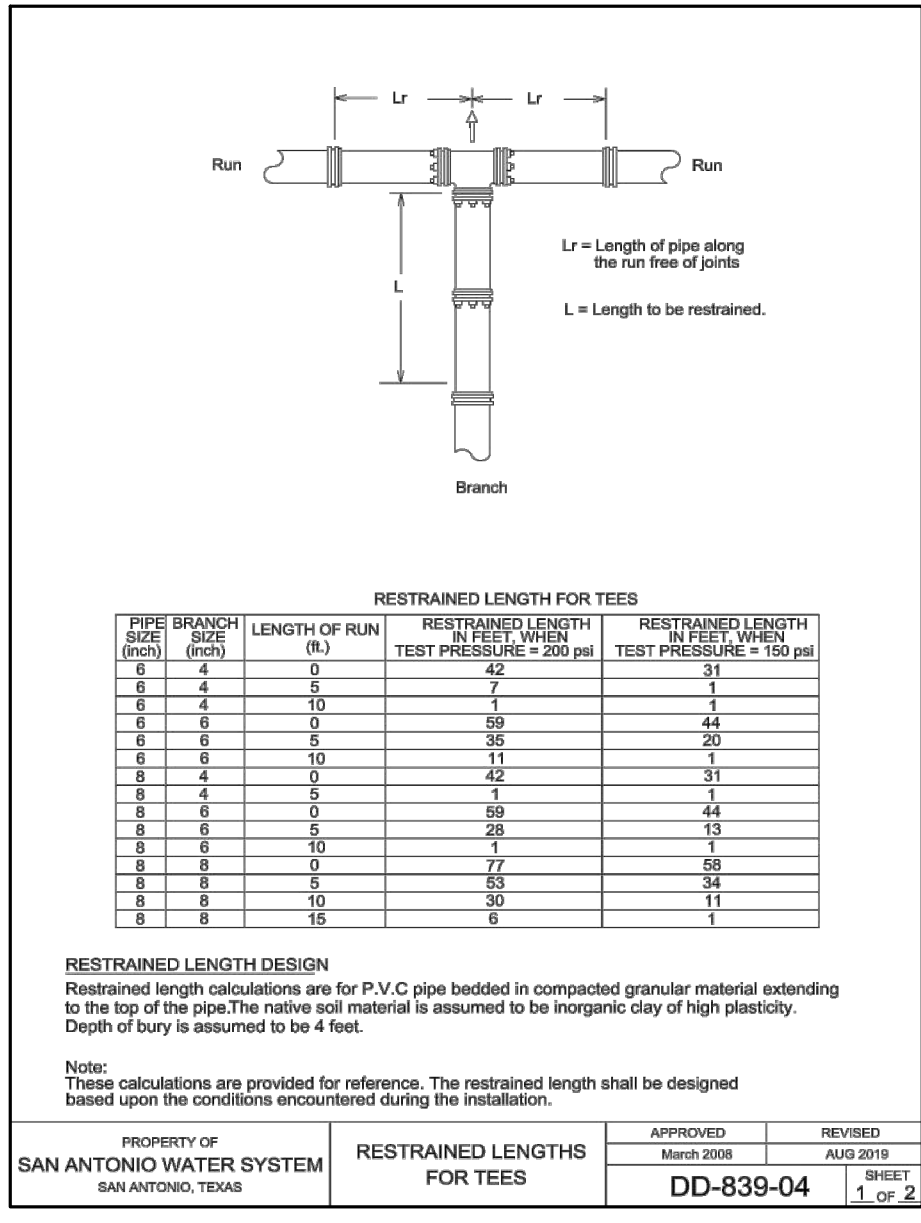
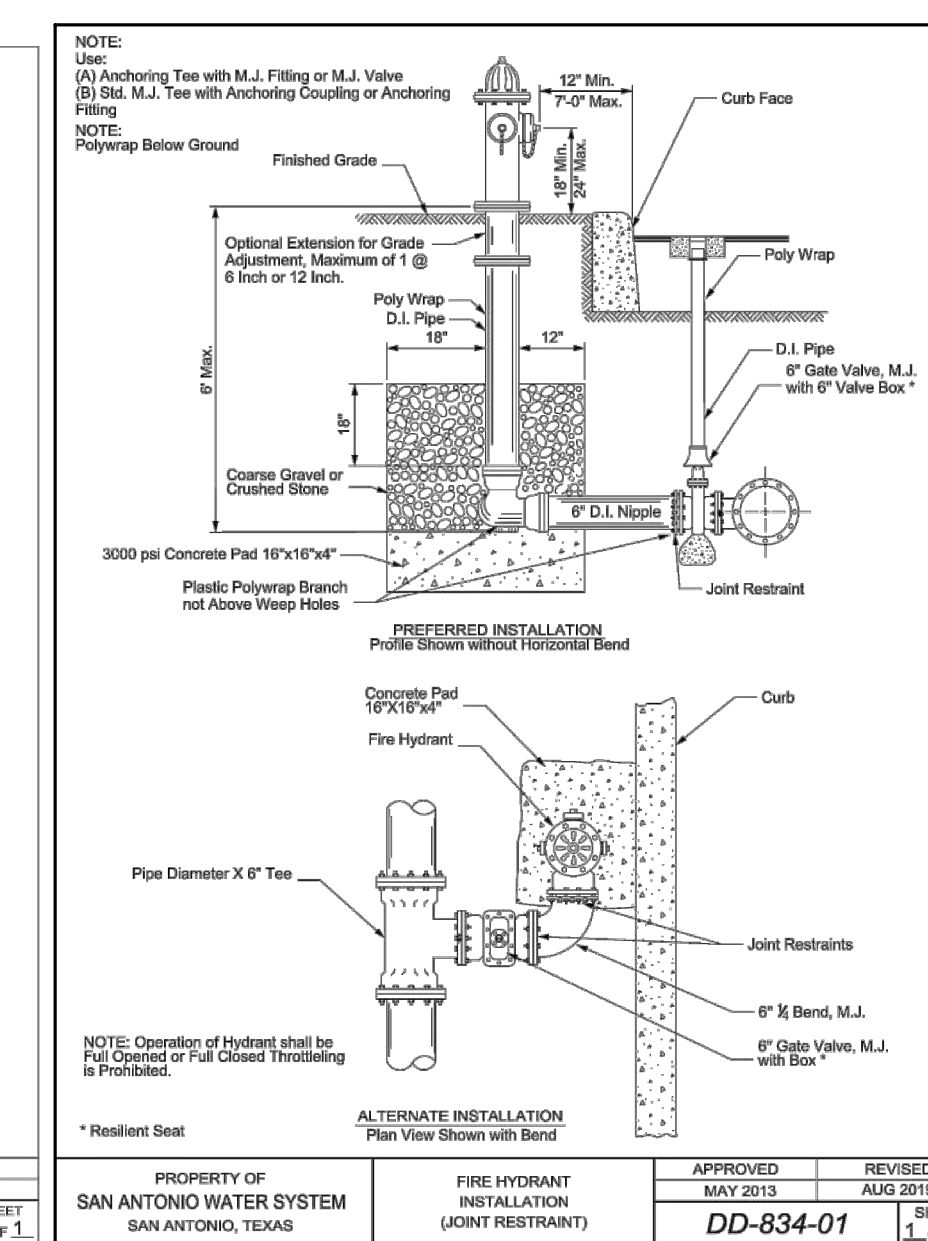
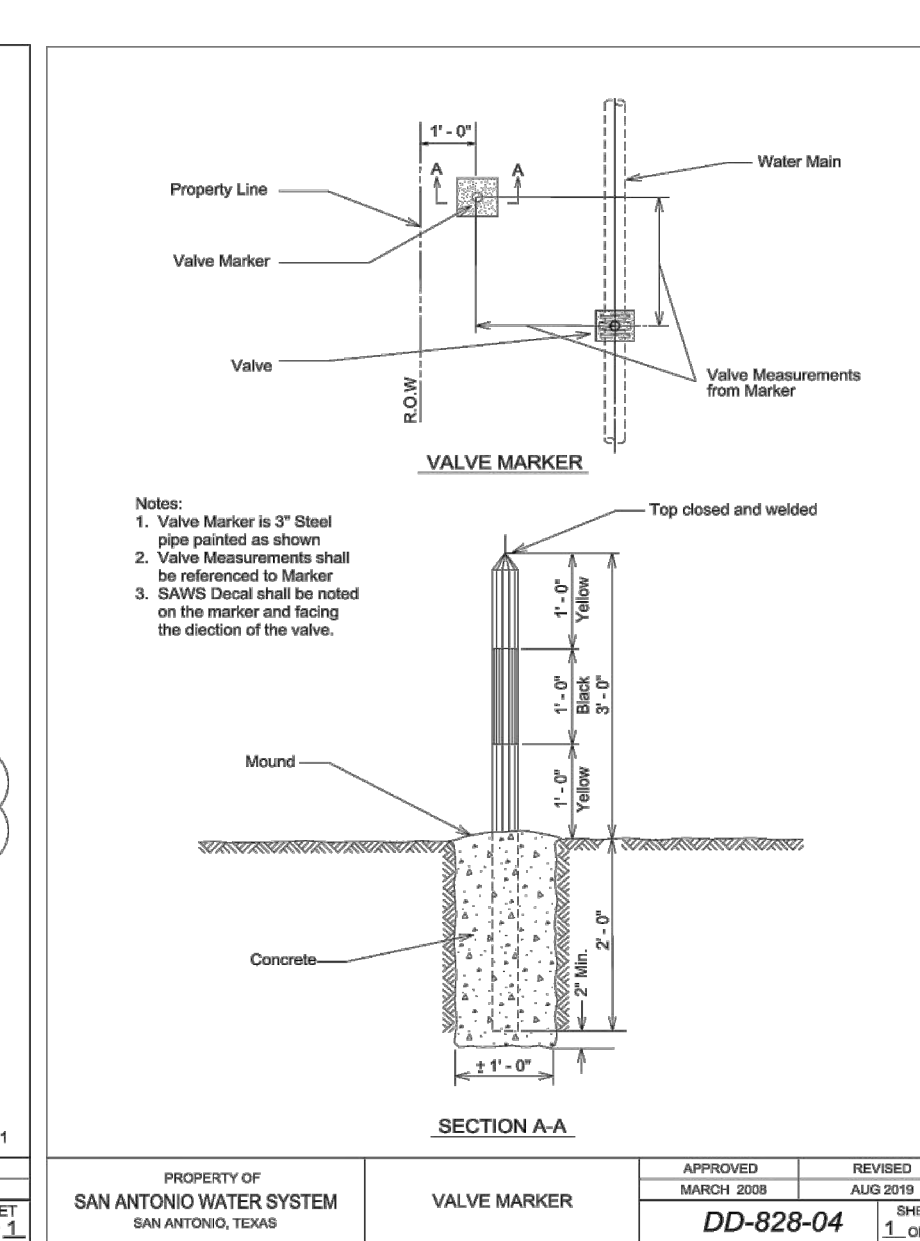
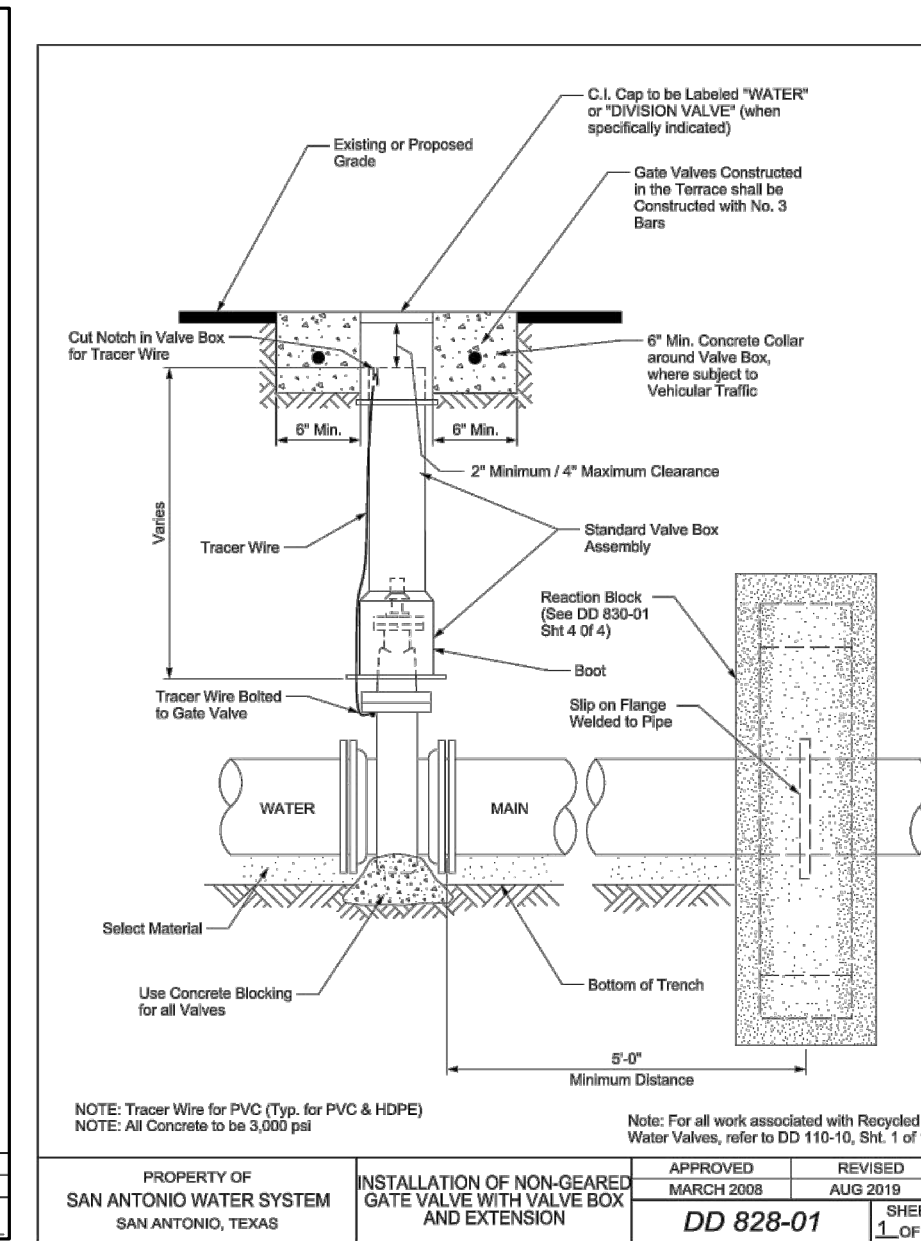
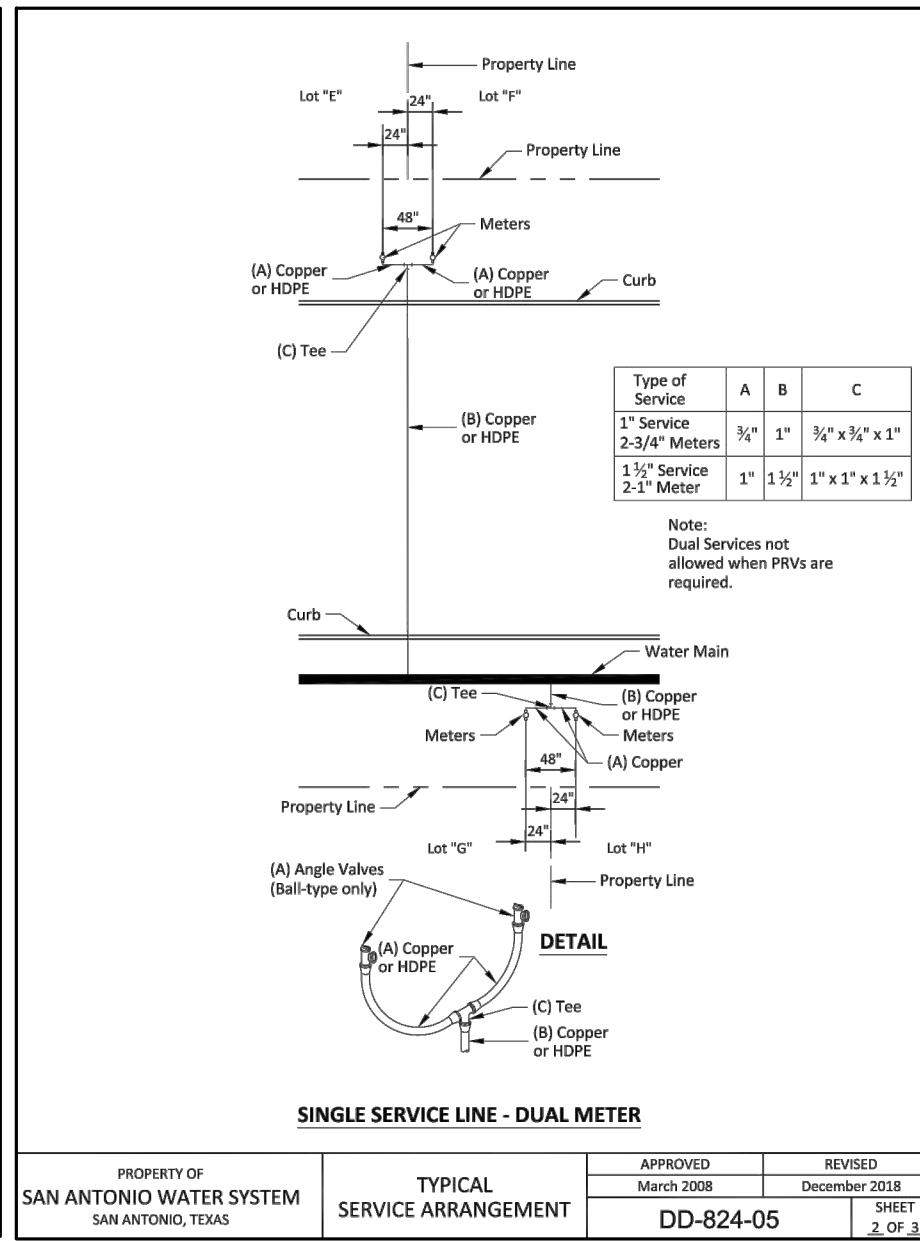
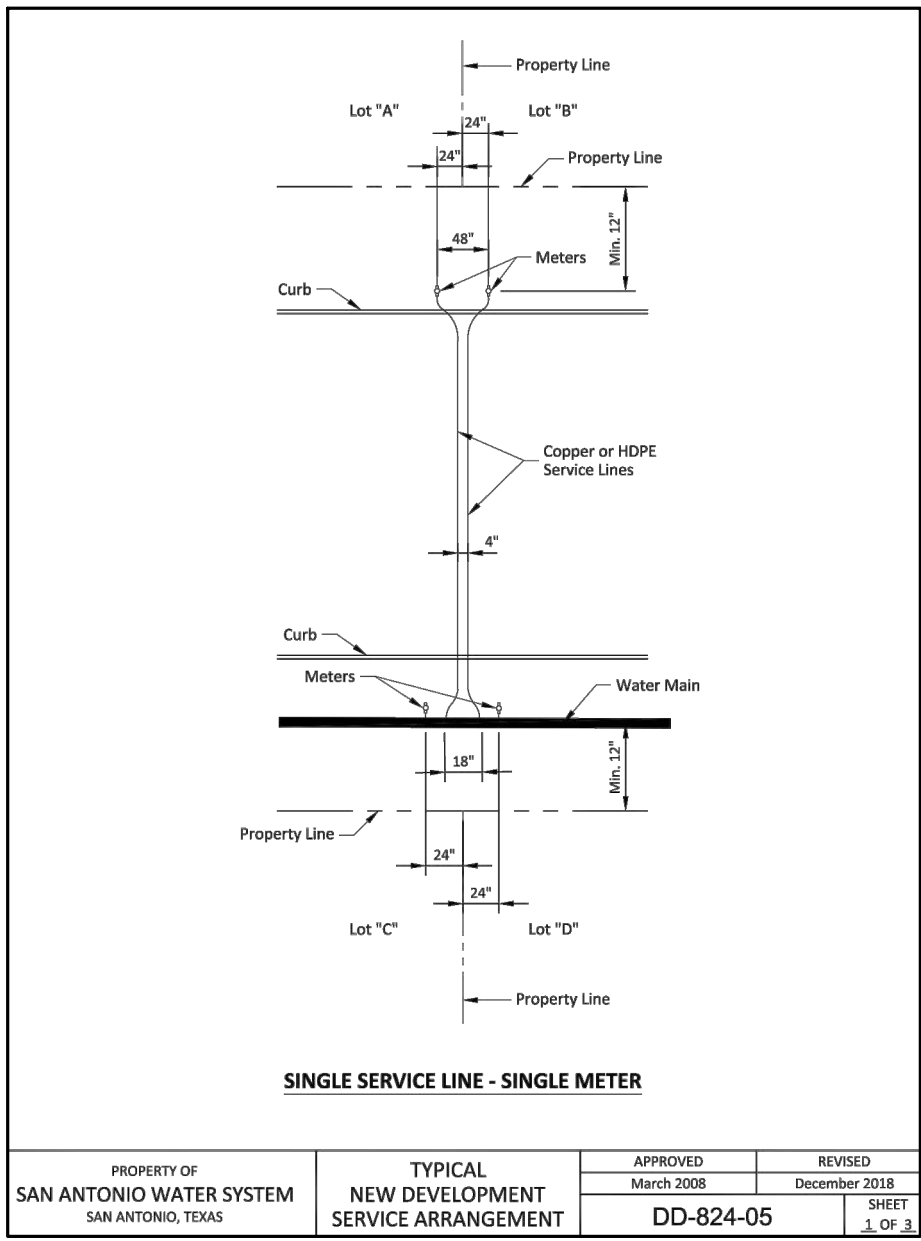
SAN ANTONIO | AUSTIN | HOUSTON | FORT WORTH | DALLAS
2000 HW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.5000
TEXAS ENGINEERING FIRM #470 | TEXAS SURVEYING FIRM #1028600

KINDER SUNDAY CREEK - PHASE I

SAN ANTONIO, TEXAS

OVERALL WATER DISTRIBUTION PLAN

PLAT NO. 22-11800791
JOB NO. 8802-59
DATE MARCH 2024
DESIGNER UV
CHECKED AS DRAWN DD
SHEET C4.00



WATER (SAWS PRESSURE ZONE 1400 HGL)

DEVELOPER'S NAME: SA KINDER RANCH NO. 2, LTD

ADDRESS: 11 LYNN BATTIS LANE, SUITE 100

CITY: SAN ANTONIO STATE: TEXAS ZIP: 78218

PHONE# (210) 828-6131 FAX#

SAWS BLOCK MAP# 166686 TOTAL EDU'S 1 TOTAL ACREAGE 8.243

TOTAL LINEAR FOOTAGE OF PIPE: 16,210 LF PLAT NO. 22-11800791

NUMBER OF LOTS 0 SAWS JOB NO. 24-1039

DATE

NO. REVISION

STATE OF TEXAS
CALEB M. CHANCE
98401
PROFESSIONAL ENGINEER
4/11/24

KINDER SUNDAY CREEK - PHASE I
SAN ANTONIO, TEXAS

WATER DISTRIBUTION PLAN DETAILS

SA ANTONIO | AUSTIN | HOUSTON | FORT WORTH | DALLAS
2000 HW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000
TEXAS ENGINEERING FIRM #470 | TEXAS SURVEYING FIRM #1008860

PLAT NO. 22-11800791
JOB NO. 8802-59
DATE MARCH 2024
DESIGNER UV
CHECKED AS DRAWN DD
SHEET C4.10

SAWS CONSTRUCTION NOTES
(LAST REVISED JANUARY 2022)

SAWS GENERAL SECTION

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

SAWS WATER NOTES

1. PRIOR TO TIE-INS, ANY SHUTDOWNS OF EXISTING MAINS OF ANY SIZE MUST BE COORDINATED WITH THE SAWS CONSTRUCTION INSPECTION DIVISION AT LEAST ONE WEEK IN ADVANCE OF THE SHUTDOWN. THE CONTRACTOR MUST ALSO PROVIDE A SEQUENCE OF WORK AS RELATED TO THE TIE-INS. THIS IS AT NO ADDITIONAL COST TO SAWS OR THE PROJECT AND IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO SEQUENCE THE WORK ACCORDINGLY.
- FOR WATER MAINS 12" OR HIGHER: SAWS EMERGENCY OPERATIONS CENTER (210) 233-2014
2. ASBESTOS CEMENT (AC) PIPE, ALSO KNOWN AS TRANSITE PIPE WHICH IS KNOWN TO CONTAIN ASBESTOS- CONTAINING MATERIAL (ACM), MAY BE LOCATED WITHIN THE PROJECT LIMITS. SPECIAL WASTE MANAGEMENT PROCEDURES AND HEALTH AND SAFETY REQUIREMENTS WILL BE APPLICABLE WHEN REMOVAL AND/OR DISTURBANCE OF THIS PIPE OCCURS. SUCH WORK IS TO BE MADE UNDER SPECIAL SPECIFICATION ITEM NO. 3000, "SPECIAL SPECIFICATION FOR HANDLING ASBESTOS CEMENT PIPE".
3. VALVE REMOVAL: WHERE THE CONTRACTOR IS TO ABANDON A WATER MAIN, THE CONTROL VALVE LOCATED ON THE ABANDONING BRANCH WILL BE REMOVED AND REPLACED WITH A CAP/PLUG. (NSP)
4. SUITABLE ANCHORAGE/THRUST BLOCKING OR JOINT RESTRAINT SHALL BE PROVIDED AT ALL OF THE FOLLOWING MAIN LOCATIONS: DEAD ENDS, PLUGS, CAPS, TEES, CROSSES, VALVES, AND BENDS. IN ACCORDANCE WITH THE STANDARD DRAWINGS DD-839 SERIES AND ITEM NO. 839, IN THE SAWS STANDARD SPECIFICATIONS FOR CONSTRUCTION.
5. ALL VALVES SHALL READ "OPEN RIGHT".
6. PRVS REQUIRED: CONTRACTOR TO VERIFY THAT NO PORTION OF THE TRACT IS BELOW GROUND ELEVATION OF 1215 FEET WHERE THE STATIC PRESSURE WILL NORMALLY EXCEED 80 PSI. AT ALL SUCH LOCATIONS WHERE THE GROUND LEVEL IS BELOW 1215 FEET, THE DEVELOPER OR BUILDER SHALL INSTALL AT EACH LOT, ON THE CUSTOMER'S SIDE OF THE METER, AN APPROVED TYPE PRESSURE REGULATOR IN CONFORMANCE WITH THE PLUMBING CODE OF THE CITY OF SAN ANTONIO. NO DUAL SERVICES ALLOWED FOR ANY LOT(S) IF *PRV IS/ARE REQUIRED FOR SUCH LOT(S), ONLY SINGLE SERVICE CONNECTIONS SHALL BE ALLOWED. *NOTE: A PRESSURE REGULATOR IS ALSO KNOWN AS A PRESSURE REDUCING VALVE (PRV).
7. PIPE DISINFECTION WITH DRY HTH FOR PROJECTS LESS THAN 800 LINEAR FEET. (ITEM NO. 847.3): MAINS SHALL BE DISINFECTED WITH DRY HTH WHERE SHOWN IN THE CONTRACT DOCUMENTS OR AS DIRECTED BY THE INSPECTOR, AND SHALL NOT EXCEED A TOTAL LENGTH OF 800 FEET. THIS METHOD OF DISINFECTION WILL ALSO BE FOLLOWED FOR MAIN REPAIRS. THE CONTRACTOR SHALL UTILIZE ALL APPROPRIATE SAFETY MEASURE TO PROTECT HIS PERSONNEL DURING DISINFECTION OPERATIONS.
8. BACKFLOW PREVENTION DEVICES:
- ALL IRRIGATION SERVICES WITHIN RESIDENTIAL AREAS ARE REQUIRED TO HAVE BACKFLOW PREVENTION DEVICES.
 - ALL COMMERCIAL BACKFLOW PREVENTION DEVICES MUST BE APPROVED BY SAWS PRIOR TO INSTALLATION.
9. FINAL CONNECTION TO THE EXISTING WATER MAIN SHALL NOT BE MADE UNTIL THE WATER MAIN HAS BEEN PRESSURE TESTED, CHLORINATED, AND SAWS HAS RELEASED THE MAIN FOR TIE-IN AND USE.
10. DIVISION VALVES: DIVISION VALVES SHOWN ON PLANS OR NOT SHOWN ON PLANS BUT FOUND IN THE FIELD SHALL ONLY BE OPERATED BY SAWS DISTRIBUTION AND COLLECTION STAFF AND ONLY WITH PRIOR WRITTEN APPROVAL OF THE SAWS DIRECTOR OF PRODUCTION AND OPERATIONS AND PROPER COORDINATION WITH ALL SAWS DEPARTMENTS. CONTRACTOR SHALL PROVIDE WRITTEN NOTIFICATION TO THE INSPECTOR A MINIMUM OF TWO WEEKS IN ADVANCE TO START THE COORDINATION PROCESS AND WILL BE INFORMED BY THE INSPECTOR WHEN THE DIVISION VALVE WILL BE OPERATED BY THE SAWS DISTRIBUTION AND COLLECTION STAFF. THE DIVISION VALVE CAN ONLY BE OPERATED BY SAWS DISTRIBUTION AND COLLECTION STAFF MEMBER NOT THE INSPECTOR OR THE CONTRACTOR. OPERATION OF A DIVISION VALVE WITHOUT THE EXPRESS PRIOR WRITTEN APPROVAL OF THE SAWS DISTRIBUTION AND COLLECTION STAFF WILL CONSTITUTE A MATERIAL BREACH OF ANY WRITTEN SAWS CONTRACT OR PERMIT IN ADDITION TO SUBJECTING THE CONTRACTOR TO LIABILITY FOR ANY AND ALL FINES, FEES, OR OTHER DAMAGES, DIRECT OR CONSEQUENTIAL, THAT MAY ARISE FROM OR BE CAUSED BY THE OPERATION OF THE VALVE WITHOUT PRIOR WRITTEN PERMISSION. PLEASE BE INFORMED THAT THE APPROVAL OF THE OPERATION OR OPENING OR CLOSING OF A DIVISION VALVE CAN TAKE SEVERAL WEEKS FOR APPROVAL. DIVISION VALVES WILL ALSO HAVE A VALVE LID LABELED DIVISION VALVE AND A LOCKING MECHANISM INSTALLED WITH A KEY. THE LOCK AND KEY MECHANISM WILL BE PAID FOR BY THE CONTRACTOR BUT WILL BE INSTALLED BY SAWS DISTRIBUTION AND COLLECTION STAFF.

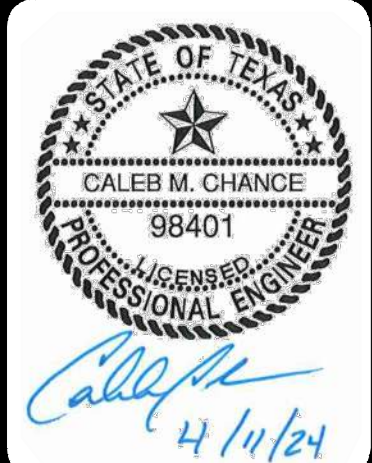
PROJECT WATER NOTES

1. MACHINE CHLORINATION BY THE S.A.W.S.
2. ALL 8", 12" AND 16" PIPE SHALL BE P.V.C. C-900 CLASS 235 DR 18.
3. ALL MAINS SHALL BE HYDROSTATICALLY TESTED BY THE CONTRACTOR, AS PROVIDED FOR IN THE SPECIAL CONDITIONS.
4. THE WATER LINES WILL BE SET FROM THE STREET HUBS BEFORE THE CONTRACT BEGINS. STREET CUT SHEETS WILL BE SUPPLIED TO THE CONTRACTOR. THERE SHOULD BE NO ADDITIONAL STAKES REQUIRED, AND IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO INSPECT THE SITE AND VERIFY THAT ALL STAKES REQUIRED FOR HIS WORK ARE IN PLACE AT THE TIME THE CONSTRUCTION BEGINS. IF ANY STAKES ARE MISSING THE ENGINEER SHOULD BE NOTIFIED IMMEDIATELY. AFTER CONSTRUCTION BEGINS, ALL CONSTRUCTION STAKES, MARKS, ETC., SHALL BE CAREFULLY PRESERVED BY THE CONTRACTOR, AND IN CASE OF DESTRUCTION OR REMOVAL BY THE CONTRACTOR, HIS EMPLOYEE OR ANY OTHER MEANS, SUCH STAKES, MARKS, ETC., SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.
5. THE CONTRACTOR SHALL FURNISH THE ENGINEER WITH ALL THE FINAL MEASUREMENTS, TAPS AND LENGTH OF SERVICE CONNECTIONS.
6. THE LOT CORNERS WILL BE SET BY THE ENGINEER FOR INSTALLATION OF ALL WATER SERVICES. THESE LOT CORNERS SHALL BE CAREFULLY PRESERVED BY THE CONTRACTOR SO THE METER BOXES CAN BE SET IN PHASE II. ANY LOT CORNER DESTROYED OR REMOVED BY THE CONTRACTOR, HIS EMPLOYEES, OR BY ANY OTHER MEANS SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.
7. STREETS WILL HAVE BEEN EXCAVATED DOWN TO SUBGRADE AND THE PARKWAY WILL BE CUT DOWN TO TOP OF CURB BY THE STREET CONTRACTOR, PRIOR TO CONSTRUCTION OF THE WATER MAINS. IT WILL BE THE UTILITY CONTRACTOR'S RESPONSIBILITY TO PROVIDE A PAD FOR HIS EQUIPMENT.
8. WATER METER BOXES IF APPLICABLE SHALL BE INSTALLED NINE FEET FROM FACE OF CURB TO CENTER OF THE METER BOX.
9. ALL GARBAGE OR SPOIL MATERIAL FROM THIS WORK SHALL BE REMOVED FROM THE SITE BY THE CONTRACTOR, AT HIS EXPENSE.
10. FINAL CONNECTION TO THE EXISTING WATER MAIN SHALL NOT BE MADE UNTIL WATER MAIN HAS BEEN PRESSURE TESTED, CHLORINATED AND THE S.A.W.S. RELEASES THE MAIN FOR TIE-IN AND USE.
11. UNIT PRICE BID FOR "STANDARD FIRE HYDRANT ASSEMBLY" SHALL INCLUDE FIRE HYDRANT, 6-INCH GATE VALVE AND 6-INCH VALVE BOX COMPLETE, ANCHOR BEND, AND ALL 6-INCH DI PIPE REQUIRED (DI PIPE REQUIRED SHALL INCLUDE ALL PIPE FROM THE TEE ON THE MAIN LINE TO THE FIRE HYDRANT).
12. WHEN SEWER LINES ARE INSTALLED IN THE VICINITY OF WATER MAINS, SUCH INSTALLATION SHALL BE IN STRICT ACCORDANCE WITH THE TEXAS NATURAL RESOURCE CONSERVATION COMMISSION "RULES AND REGULATIONS FOR PUBLIC WATER SYSTEMS" (1988 OR ANY REVISIONS THERETO).
13. A CLEAR SPACE SHALL BE PROVIDED AROUND ALL FIRE HYDRANTS. THIS AREA SHOULD HAVE A MINIMUM DIAMETER OF 3.0' AND BE CLEAN OF VERTICAL OBSTRUCTIONS, VALVES, AND METER BOXES.
14. SAWS REQUIRES LEAD FREE (< 0.25%) FIRE HYDRANTS.
15. UNLESS OTHERWISE NOTED ALL SERVICES SHALL BE 3/4" WITH 5/8" METER.

WATER (SAWS PRESSURE ZONE 1400 HGL)

DEVELOPER'S NAME: SA KINDER RANCH NO. 2, LTD	
ADDRESS: 11 LYNN BATTS LANE, SUITE 100	
CITY: SAN ANTONIO	STATE: TEXAS ZIP: 78218
PHONE# (210) 828-6131	FAX#
SAWS BLOCK MAP# 166686 TOTAL EDU'S 1 TOTAL ACREAGE 8.243	
TOTAL LINEAR FOOTAGE OF PIPE: 16'-180 LF PLAT NO. 22-11800791	
NUMBER OF LOTS 0	SAWS JOB NO. 24-1039

DATE	NO.	REVISION



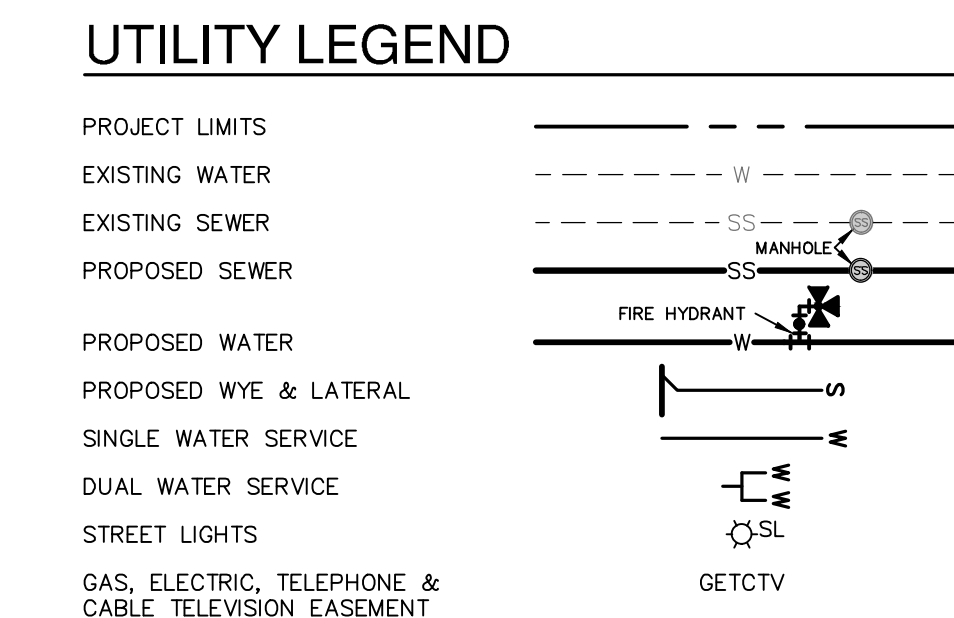
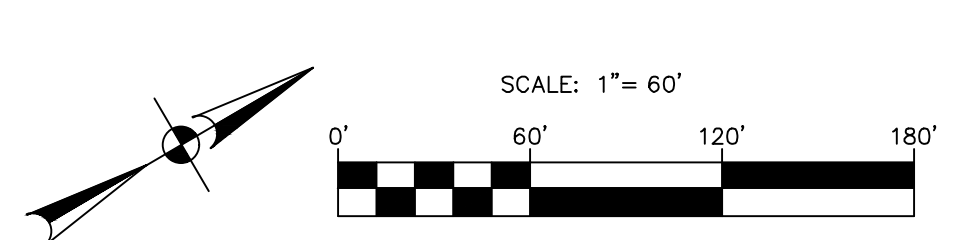
PAPE-DAWSON
ENGINEERS

SAN ANTONIO | AUSTIN | HOUSTON | FORT WORTH | DALLAS
2000 HW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000
TEXAS ENGINEERING FIRM #470 | TEXAS SURVEYING FIRM #1008860

KINDER SUNDAY CREEK - PHASE I
SAN ANTONIO, TEXAS

WATER DISTRIBUTION PLAN NOTES

PLAT NO.	22-11800791
JOB NO.	8802-59
DATE	MARCH 2024
DESIGNER	UV
CHECKED	AS DRAWN RD
SHEET	C4.11



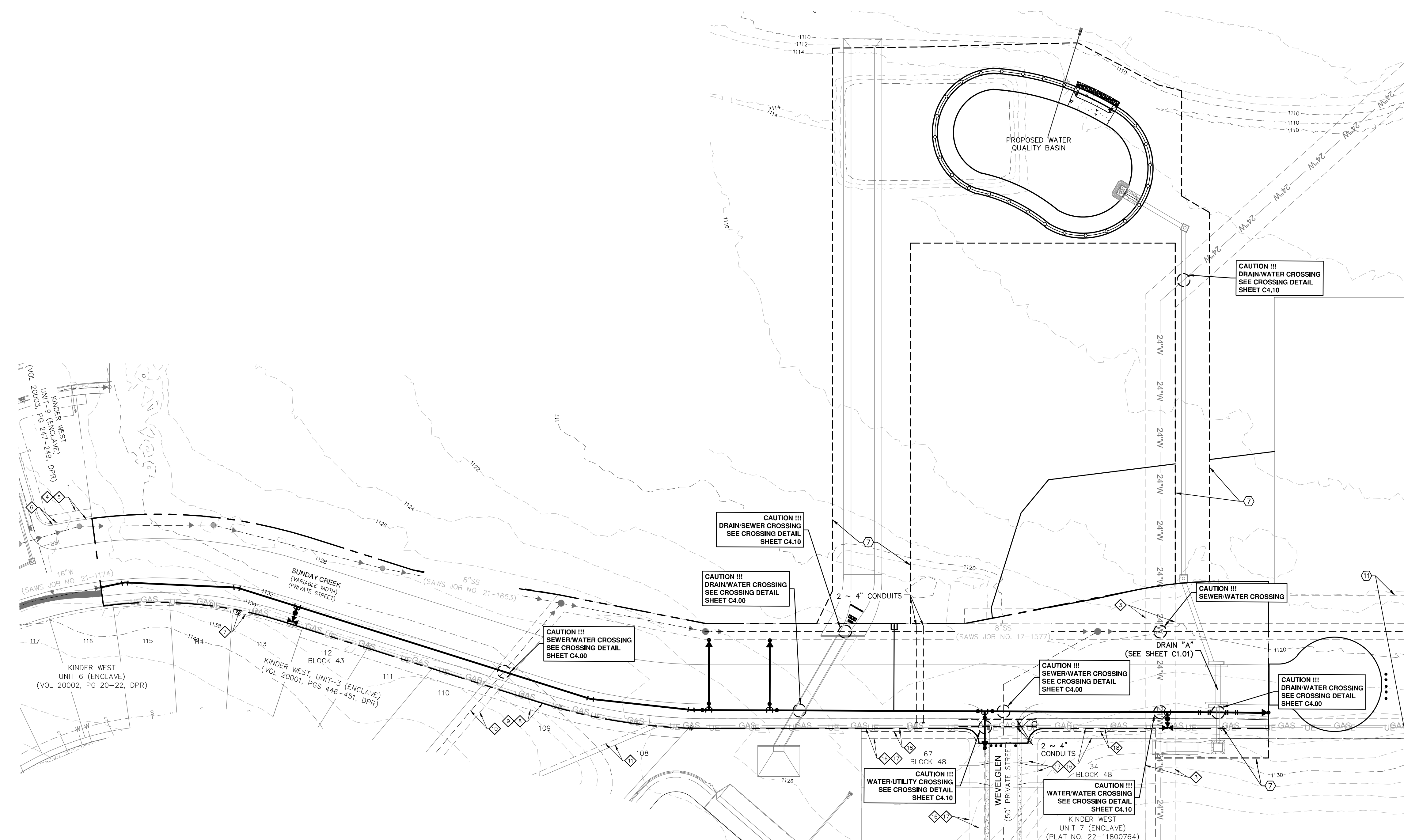
**PAPE-DAWSON
ENGINEERS**

KINDER SUNDAY CREEK - PHASE I

SAN ANTONIO, TEXAS

OVERALL UTILITY PLAN

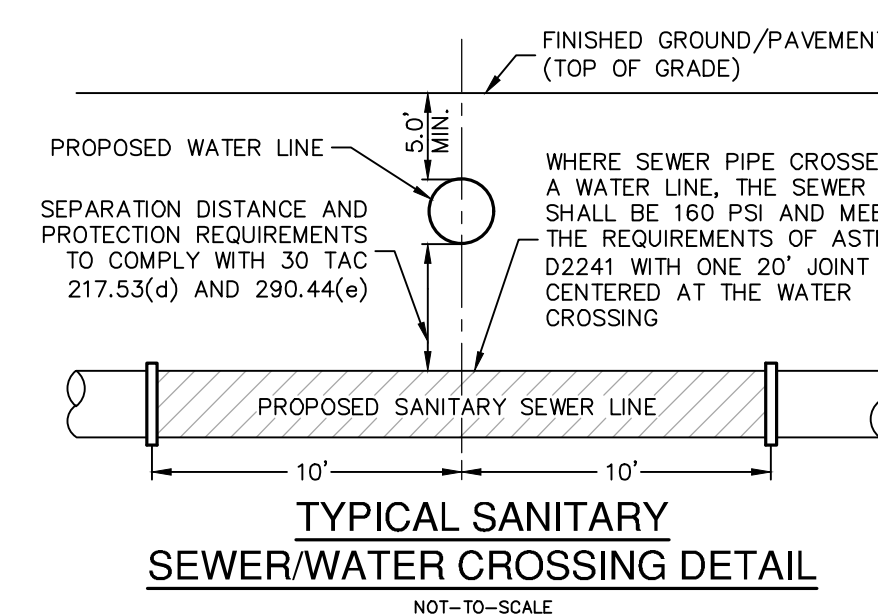
PLAT NO. 22-11800791
JOB NO. 8802-59
DATE MARCH 2024
DESIGNER UV
CHECKED AS DRAWN RD
SHEET C5.00



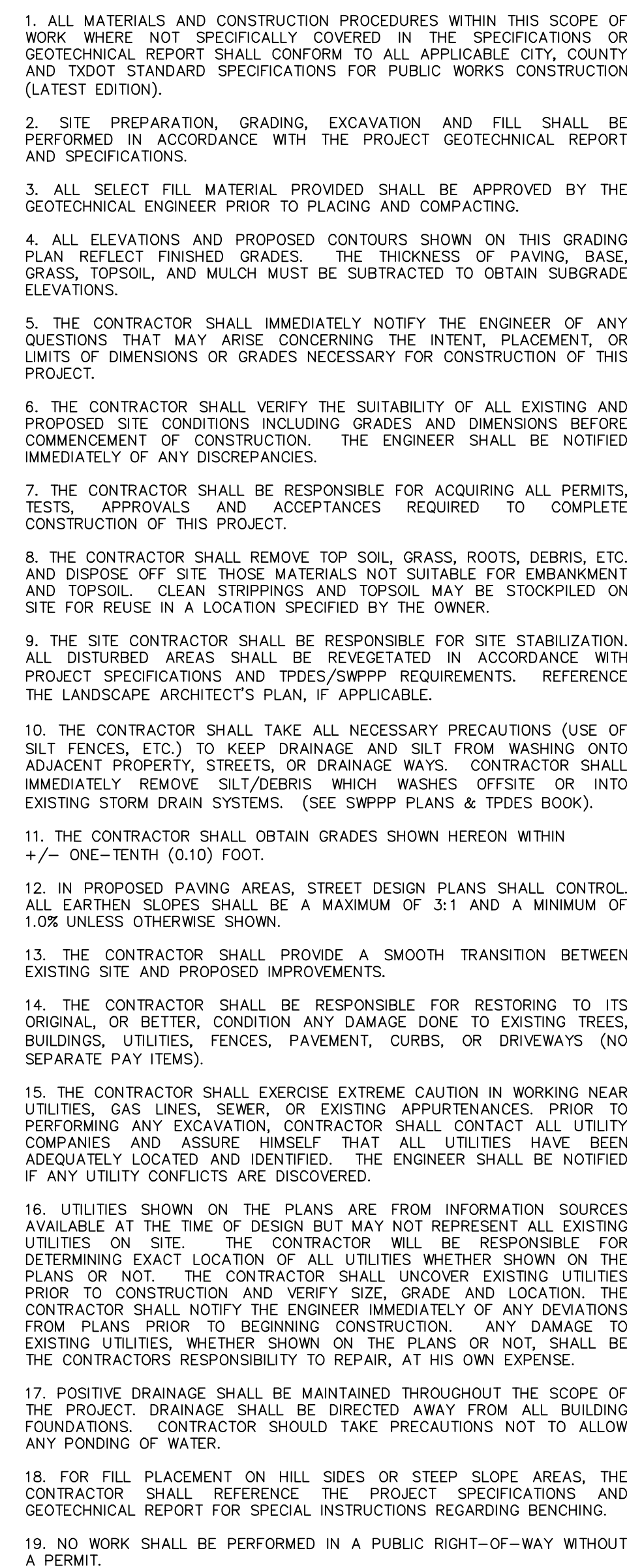
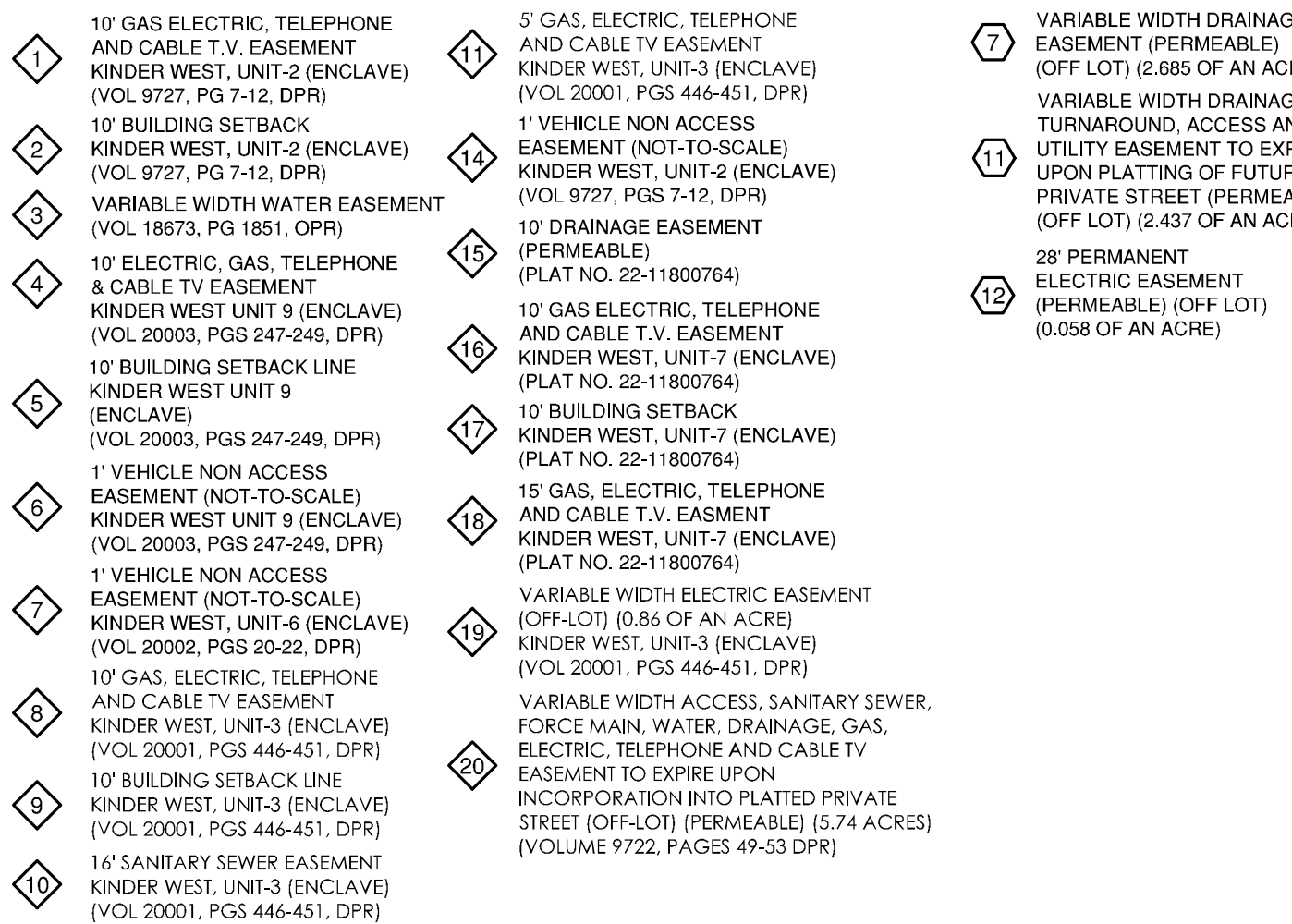
1. CONTRACTOR SHALL INSTALL PERMANENT MARKERS IN PROPOSED CURBS WHERE CONDUITS CROSS THE ROADWAY (BOTH SIDES).
2. CONDUITS SHALL BE PVC WITH MINIMUM BURST OF 36 INCHES BELOW PROPOSED FINISHED GRADE. SCHEDULE 80 TO BE USED FOR CPS CONDUITS. ALL OTHER CONDUITS ARE SCHEDULE 40.
3. ALL CONDUITS SHALL BE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

CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYED OR STRUCTURAL DESIGN/ GEOTECHNICAL/ SAFETY/EQUIPMENT CONSULTANT, IF ANY, SHALL REVIEW THESE PLANS AND ANY AVAILABLE GEOTECHNICAL INFORMATION AND THE ANTICIPATED INSTALLATION SITES WITHIN THE PROJECT WORK AREA IN ORDER TO IMPLEMENT CONTRACTOR'S TRENCH AND SHIELDING SAFETY PROCEDURES AND TO DEVELOP THE PROJECT SAFETY PLAN. CONTRACTOR'S PROCEDURES FOR THE PROJECT DESCRIBED IN THE CONTRACT DOCUMENTS AND THE CONTRACTOR'S IMPLEMENTATION OF THESE SYSTEMS, PROGRAMS AND/OR PROCEDURES SHALL PROVIDE FOR ADEQUATE TRENCH EXCAVATION SAFETY PROTECTIVE MEASURES EMPLOYED TO PROTECT THE PROJECT AND FOR TRENCH EXCAVATIONS. SPECIFICALLY, CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYER OR SAFETY CONSULTANT SHALL IMPLEMENT A TRENCH SAFETY PROGRAM IN ACCORDANCE WITH OSHA REGULATIONS AND THE PROJECT SAFETY PLAN. CONTRACTOR SHALL BE RESPONSIBLE FOR THE SAFETY OF ALL INDIVIDUALS WORKING IN AND AROUND TRENCH EXCAVATION.

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



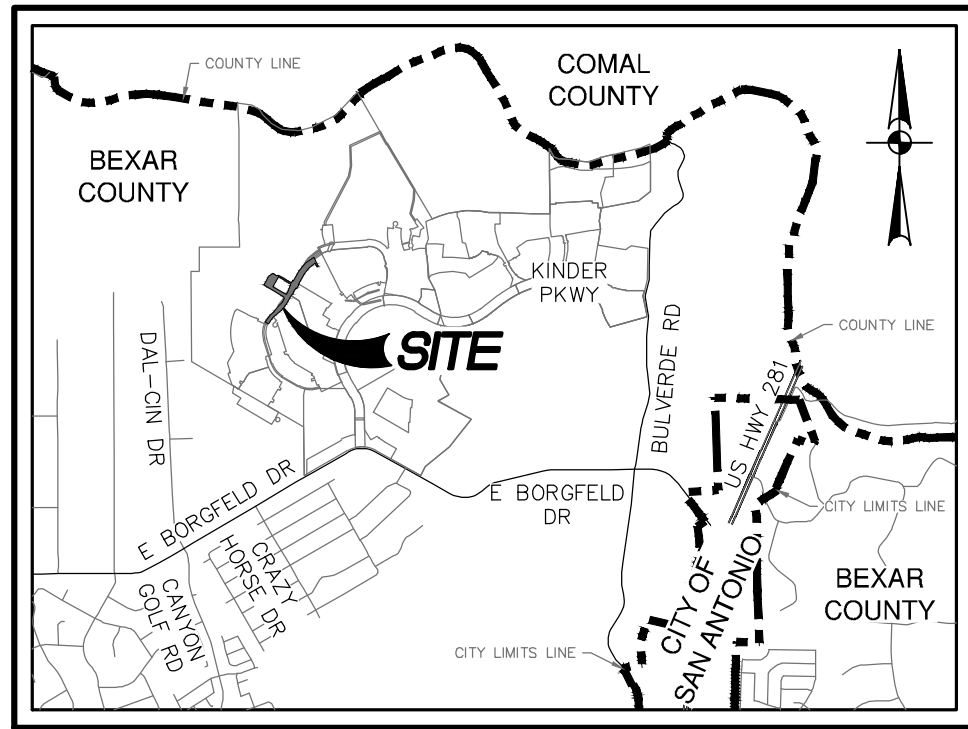
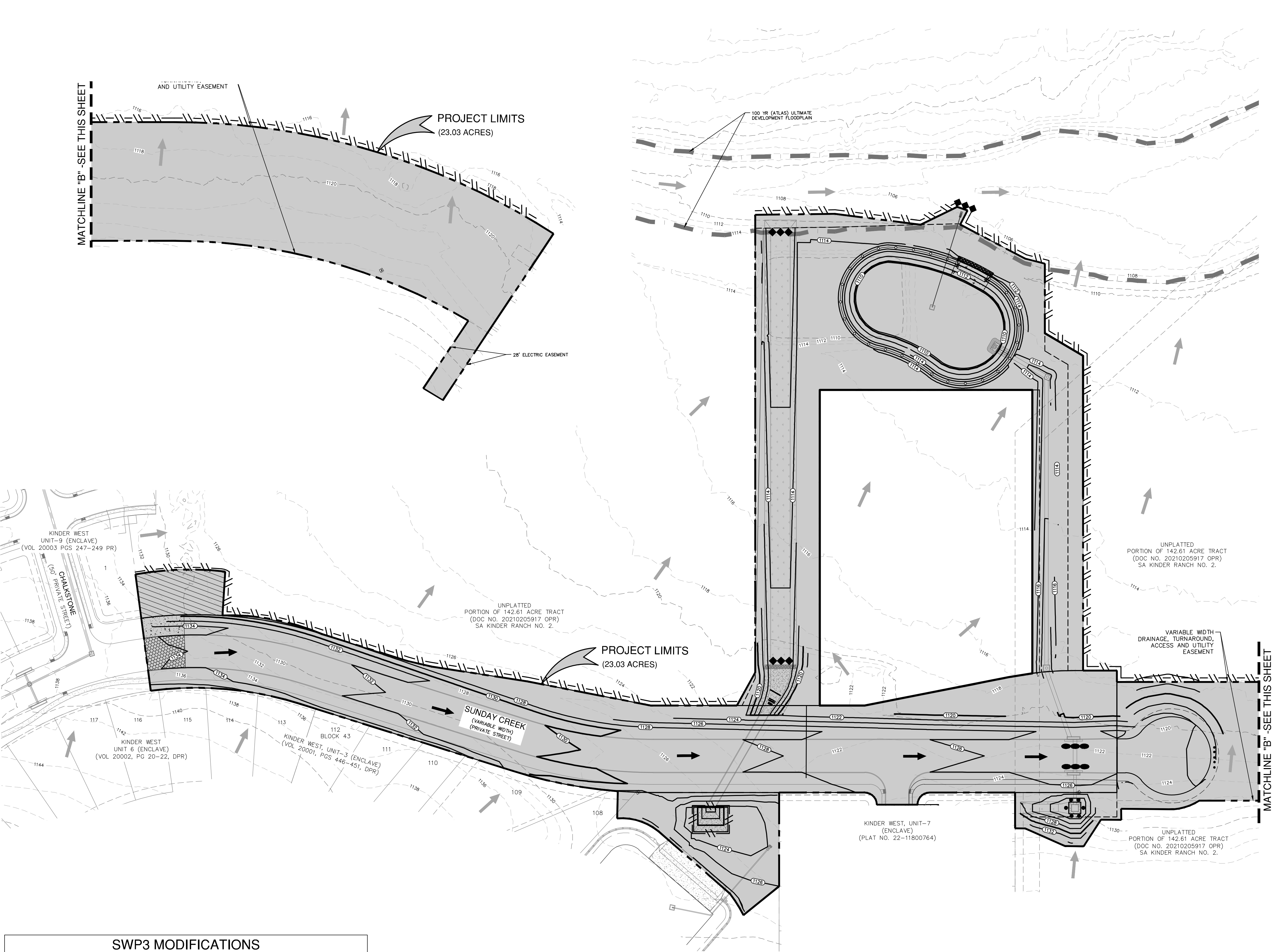
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|----|--|----|--|----|---|
| 10 | 10' GAS ELECTRIC, TELEPHONE AND CABLE T.V. EASEMENT
KINDER WEST, UNIT-2 [ENCLAVE]
[VOL 9727, PG 7-12, DPR] | 15 | 5' GAS ELECTRIC, TELEPHONE AND CABLE TV EASEMENT
KINDER WEST, UNIT-3 [ENCLAVE]
[VOL 20001, PGS 446-451, DPR] | 27 | VARIABLE WIDTH DRAINAGE EASEMENT (PERMEABLE)
(OFF LOT) 2.685 OF AN ACRE |
| 10 | 10' BUILDING SETBACK
KINDER WEST, UNIT-3 [ENCLAVE]
[VOL 9727, PG 7-12, DPR] | 15 | VEHICLE NON ACCESS EASEMENT (NOT-TO-SCALE)
KINDER WEST, UNIT-2 [ENCLAVE]
[VOL 9727, PGS 7-12, DPR] | 17 | VARIABLE WIDTH DRAINAGE TURNAROUND, ACCESS AND UTILITY EASEMENT TO EXPIRE UPON PLATTING OF FUTURE PRIVATE STREET (PERMEABLE) (OFF LOT) 2.437 OF AN ACRE |
| 10 | VARIABLE WIDTH WATER EASEMENT
[VOL 18673, PG 1851, OPRI] | 15 | 10' DRAINAGE EASEMENT (PERMEABLE) (OFF-LOT)
(PLAT NO. 22-11800764)
(CONCURRENT PLAT) | 28 | PERMANENT ELECTRIC EASEMENT (PERMEABLE) (OFF LOT)
(0.058 OF AN ACRE) |
| 10 | 10' GAS, GAS, TELEPHONE & CABLE TV EASEMENT
KINDER WEST UNIT 3 [ENCLAVE]
[VOL 20003, PGS 247-249, DPR] | 15 | 10' GAS ELECTRIC, TELEPHONE AND CABLE T.V. EASEMENT
KINDER WEST, UNIT-7 [ENCLAVE]
(PLAT NO. 22-11800764)
(CONCURRENT PLAT) | | |
| 10 | 10' BUILDING SETBACK LINE
KINDER WEST UNIT 9 [ENCLAVE]
[VOL 20003, PGS 247-249, DPR] | 15 | 10' BUILDING SETBACK
KINDER WEST, UNIT-7 [ENCLAVE]
(PLAT NO. 22-11800764)
(CONCURRENT PLAT) | | |
| 10 | 1' VEHICLE NON ACCESS EASEMENT (NOT-TO-SCALE)
KINDER WEST UNIT 9 [ENCLAVE]
[VOL 20003, PGS 247-249, DPR] | 15 | 15' GAS, ELECTRIC, TELEPHONE AND CABLE T.V. EASEMENT
KINDER WEST, UNIT-7 [ENCLAVE]
(PLAT NO. 22-11800764)
(CONCURRENT PLAT) | | |
| 10 | 1' VEHICLE NON ACCESS EASEMENT (NOT-TO-SCALE)
KINDER WEST, UNIT-6 [ENCLAVE]
[VOL 20002, PGS 20-22, DPR] | 15 | VARIABLE WIDTH ELECTRIC EASEMENT (OFF-LOT) (0.86 OF AN ACRE)
KINDER WEST, UNIT-3 [ENCLAVE]
[VOL 20001, PGS 446-451, DPR] | | |
| 10 | 10' GAS, ELECTRIC, TELEPHONE AND CABLE TV EASEMENT
KINDER WEST, UNIT-3 [ENCLAVE]
[VOL 20001, PGS 446-451, DPR] | 15 | VARIABLE WIDTH ACCESS, SANITARY SEWER, FORCE MAIN, WATER, DRAINAGE, GAS, ELECTRIC, TELEPHONE AND CABLE TV EASEMENT TO EXPIRE UPON INCORPORATION INTO PLATTED PRIVATE STREET (OFF-LOT) (PERMEABLE) (5.74 ACRES)
[VOLUME 9722, PAGES 49-53 DPR] | | |
| 10 | 10' BUILDING SETBACK LINE
KINDER WEST, UNIT-3 [ENCLAVE]
[VOL 20001, PGS 446-451, DPR] | 20 | | | |
| 10 | 12' SANITARY SEWER EASEMENT
KINDER WEST, UNIT-3 [ENCLAVE]
[VOL 20001, PGS 446-451, DPR] | | | | |



Date: Apr 11, 2024, 12:14pm User ID: u10100000000000000000
File: P:\88\02\59\Design\GIS\SWP3\SWP3MODIFICATIONS.dwg

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SWP3 MODIFICATIONS		
DATE	SIGNATURE	DESCRIPTION

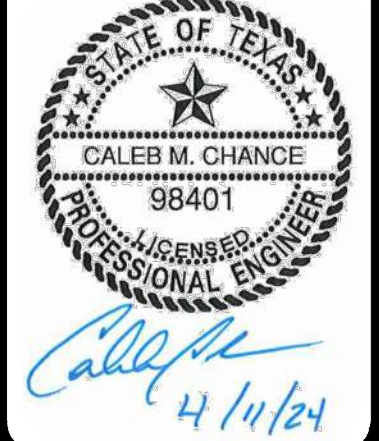


SWPPP LEGEND	
PROJECT LIMITS	---
EXISTING CONTOUR	- - - - -
PROPOSED CONTOUR	- - - - -
FLOW ARROW (EXISTING)	→
FLOW ARROW (PROPOSED)	→
SILT FENCE	
ROCK BERM	
GRAVEL FILTER BAGS	
GRATE INLET PROTECTION	
SEDIMENT CONTROL ROLLS	
LIMITS OF DISTURBED AREA	
STABILIZED CONSTRUCTION ENTRANCE/EXIT (FIELD LOCATE)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

- ### GENERAL NOTES
- DO NOT DISTURB VEGETATED AREAS (TREES, GRASS, WEEDS, BRUSH, ETC.) ANY MORE THAN NECESSARY FOR CONSTRUCTION.
 - CONSTRUCTION ENTRANCE/EXIT LOCATION, CONCRETE WASH-OUT PIT, AND CONSTRUCTION EQUIPMENT AND MATERIAL STORAGE YARD TO BE DETERMINED IN THE FIELD.
 - STORM WATER POLLUTION PREVENTION CONTROLS MAY NEED TO BE MODIFIED IN THE FIELD TO ACCOMPLISH THE DESIRED EFFECT. ALL MODIFICATIONS ARE TO BE NOTED ON THIS EXHIBIT AND SIGNED AND DATED BY THE RESPONSIBLE PARTY.
 - RESTRICT ENTRY/EXIT TO THE PROJECT SITE TO DESIGNATED LOCATIONS BY USE OF ADEQUATE FENCING, IF NECESSARY.
 - BEST STORM WATER POLLUTION PREVENTION CONTROLS ARE TO BE MAINTAINED AND IN WORKING CONDITIONS AT ALL TIMES.
 - FOR A COMPLETE LISTING OF TEMPORARY STORM WATER POLLUTION PREVENTION CONTROLS REFER TO THE TPDES STORM WATER POLLUTION PREVENTION PLAN.
 - STORM WATER POLLUTION PREVENTION STRUCTURES SHOULD BE CONSTRUCTED WITHIN THE SITE BOUNDARIES. SOME OF THESE FEATURES MAY BE SHOWN OUTSIDE THE SITE BOUNDARIES ON THIS PLAN FOR VISUAL CLARITY.
 - AS SOON AS PRACTICAL, ALL DISTURBED SOIL THAT WILL NOT BE COVERED BY IMPERVIOUS COVER SUCH AS PARKWAY AREAS, EASEMENT AREAS, EMBANKMENT SLOPES, ETC. WILL BE STABILIZED PER APPLICABLE PROJECT SPECIFICATIONS.
 - BEST MANAGEMENT PRACTICES MAY BE INSTALLED IN STAGES TO CONSIDER WITH THE DISTURBANCE OF UPGRADE AREAS.
 - BEST MANAGEMENT PRACTICES MAY BE REMOVED IN STAGES ONCE THE WATERSHED FOR THAT PORTION CONTROLLED BY THE BEST MANAGEMENT PRACTICES HAS BEEN STABILIZED IN ACCORDANCE WITH TPDES REQUIREMENTS.
 - UPON COMPLETION OF THE PROJECT, INCLUDING SITE STABILIZATION, AND BEFORE FINAL PAYMENT IS ISSUED, CONTRACTOR SHALL REMOVE ALL SEDIMENT AND EROSION CONTROL MEASURES, PAYING SPECIAL ATTENTION TO ROCK BERMS IN DRAINAGE FEATURES.
 - WHERE VEGETATED FILTER STRIPS ARE INDICATED, CONTRACTOR SHALL VERIFY THAT SUFFICIENT VEGETATION EXISTS. OTHERWISE, CONTRACTOR SHALL PLACE SILT FENCING IN LIEU OF VEGETATED FILTER STRIP.
 - SHADED AREA DENOTES LIMITS OF DISTURBED AREAS. OTHER AREAS WITHIN THE PROJECT LIMITS, WITH THE EXCEPTION OF A CONSTRUCTION EQUIPMENT AND MATERIAL STORAGE YARD, ARE NOT A PART OF THIS TPDES STORM WATER POLLUTION PREVENTION PLAN (SWP3) AND WILL NOT BE DISTURBED BY CIVIL CONSTRUCTION ACTIVITIES. HOUSE CONSTRUCTION ACTIVITIES WILL REQUIRE A SEPARATE STORM WATER POLLUTION PREVENTION PLAN.
 - PRIOR TO BEGINNING CONSTRUCTION, CONTRACTOR SHALL COORDINATE PLACEMENT OF TEMPORARY BEST MANAGEMENT PRACTICES WITHIN TxDOT RIGHT-OF-WAY WITH TxDOT.
 - CPS ENERGY WILL FUNCTION AS A SECONDARY OPERATOR ON THIS PROJECT AND WILL BE INSTALLING ELECTRIC UTILITIES FOR ON-SITE CONSTRUCTION AND OFF-SITE FEED TO THE PROJECT.

THE ENGINEERING SEAL HAS BEEN AFFIXED TO THIS SHEET ONLY FOR THE PURPOSE OF DEMONSTRATING COMPLIANCE WITH THE TPDES-STORM WATER POLLUTION PREVENTION PLAN (SWP3) REGULATIONS.	
THIS SHEET HAS BEEN PREPARED FOR PURPOSES OF THE SWP3 ONLY. ALL OTHER CIVIL ENGINEERING RELATED INFORMATION SHOULD BE ACQUIRED FROM THE APPROPRIATE SHEET IN THE CIVIL IMPROVEMENT PLANS.	EXHIBIT 2

NO.	REVISION	DATE



PAPE-DAWSON ENGINEERS
SAN ANTONIO | AUSTIN | HOUSTON | FORT WORTH | DALLAS
2000 HW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000
TEXAS ENGINEERING FIRM #470 | TEXAS SURVEYING FIRM #10088600

KINDER SUNDAY CREEK - PHASE I
SAN ANTONIO, TEXAS
STORMWATER POLLUTION PREVENTION PLAN

PLAT NO.	22-11800791
JOB NO.	8802-59
DATE	MARCH 2024
DESIGNER	UV
CHECKED	AS
DRAWN	DD
SHEET	C7.00

