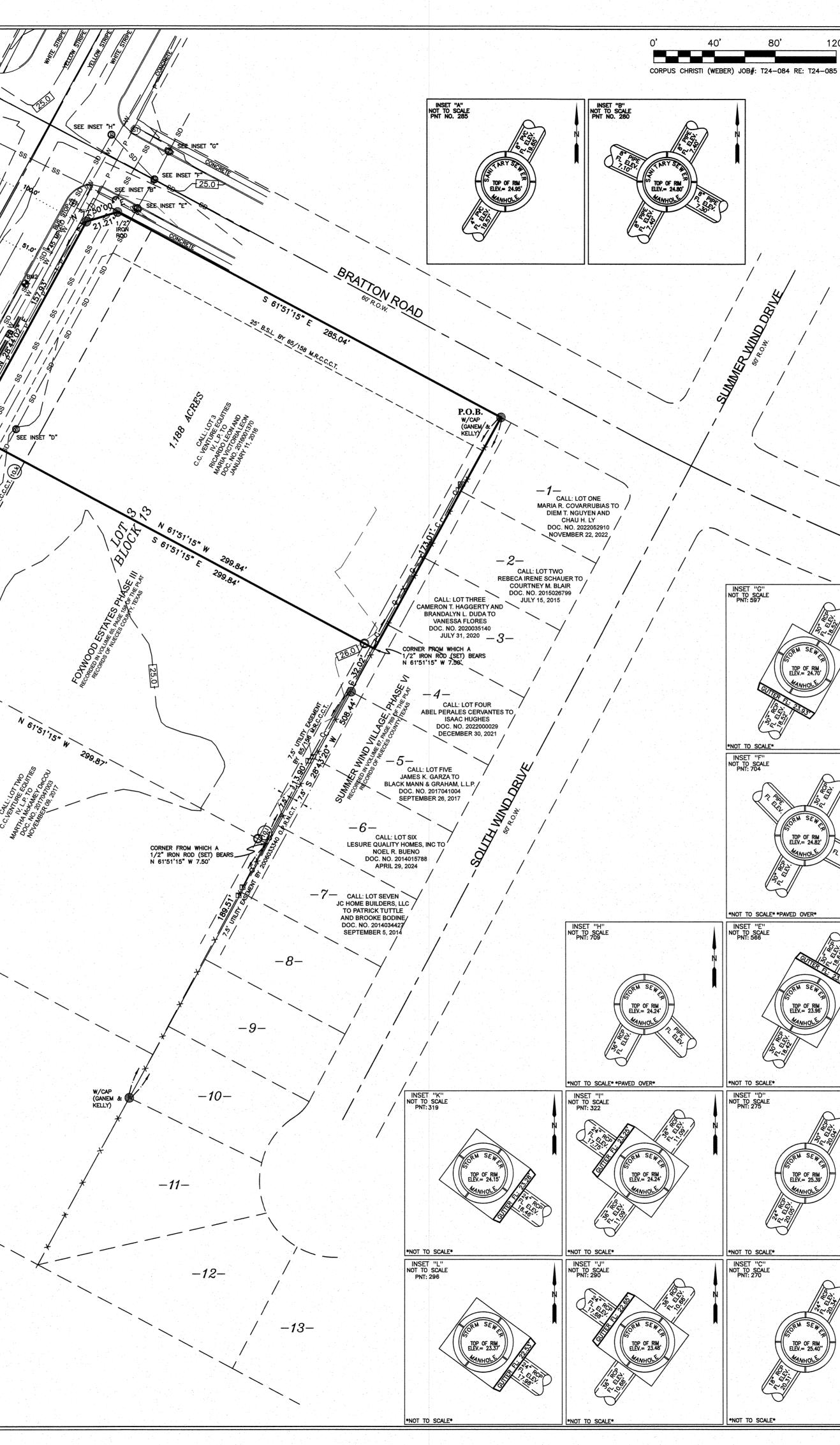


FOR THE OVERL SHOWING PA	D TITLE SURVEY AND GROUP, LLC ART OF THE VILLAREAL	
SURVEY, ABS	TRACT NO. 1, UNTY, TEXAS LEGEND	- SS - SS -
GENERAL NOTES	<ul> <li>5/8" IR FOUND (SURVEYOR)</li> <li>1/2" IR SET W/CAP (J.COWAN &amp; ASSOC.)</li> </ul>	19.0-
LEGAL DESCRIPTION SHOWN HEREON. BEARINGS ARE ORIENTED TO GRID NORTH OF THE TEXAS STATE PLANE COORDINATE SYSTEM, NAD 83, TEXAS SOUTH ZONE 4205, SURVEY FEET.	TEMPORARY BENCHMARK 	
<ul> <li>SITE ELEVATION DATUM IS NAVD 88.</li> <li>CONTOUR INTERVAL = 1.0'</li> <li>SITE BENCHMARK 1</li> </ul>	( GUY WIRE SD	
TOP OF 1/2" IRON ROD (SET) BEING S 38°25'57" W 109.99' FROM THE NORTH CORNER OF TRACT ELEVATION = 24.00'	STORM DRAIN MANHOLE —SS— SANITARY SEWER LINE	
SITE BENCHMARK 2 TOP OF 1/2" IRON ROD (SET) BEING N 16°23'24" E 72.67' FROM THE WEST CORNER OF TRACT ELEVATION = 24.69'	S SEWER MANHOLE W	
	WATER VALVE 	
FLOOD NOTE	FO FIBER OPTIC CABLE UV CABLE VAULT	The second se
THE SUBJECT TRACT LIES IN ZONE "X" AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN, PER EDERAL EMERGENCY MANAGEMENT AGENCY (FEMA), ON FLOOD INSURANCE RATE MAP NO. 48355C0510G WITH A MAP FFECTIVE DATE OF OCTOBER 13, 2022, COUNTY OF NUECES, EXAS.	UDERGROUND CABLE MARKER EB CABLE PEDESTAL II TELEPHONE BOX I SIGN	
ZONING	ST STOP SIGN	
1. LAND USE: VACANT	MRCCCT MAP RECORDS CORPUS CHRISTI COUNTY TEXAS OPRNCT OFFICIAL PUBLIC RECORDS_NUECES	
ALLIANT NATIONAL TITLE INSURANCE COMPANY, INC	COUNTY TEXAS POB POINT OF BEGINNING POC POINT OF COMMENCING	S AND CORNER IN S FIRE HYDRANYT S S S S S S S
TILE COMMITMENT NO: 24-0592 RESTRICTIONS, COVENANTS, TERMS, CONDITIONS, PROVISIONS AND STIPULATIONS RECORDED IN VOLUME 65, PAGES 158 AND 59, PLAT RECORDS; AND RECORDED UNDER COUNTY CLERK'S TILE NO. 2006038052, OFFICIAL PUBLIC RECORDS OF NUECES COUNTY, TEXAS, DO AFFECT THIS TRACT.		
0.f TERMS, CONDITIONS, STIPULATIONS AND OBLIGATIONS OF NSTRUMENT RECORDED IN VOLUME 65, PAGES 158 AND 159, PLAT RECORDS; AND RECORDED UNDER COUNTY CLERK'S FILE NO. 2006038052, OFFICIAL PUBLIC RECORDS OF NUECES COUNTY, TEXAS, DO AFFECT THIS TRACT.		ST SEE INSET "C"
0.h A 25 FOOT YARD REQUIREMENT ALONG THE NORTHEAST SIDE(S), AS SHOWN BY PLAT FILED FOR RECORD UNDER VOLUME 55, PAGES 158 AND 159, PLAT RECORDS OF NUECES COUNTY, TEXAS, DOES NOT AFFECT THIS TRACT.		R <sup>2</sup>
0.I A 20 FOOT YARD REQUIREMENT ALONG THE NORTHWEST SIDE(S), AS SHOWN BY PLAT FILED FOR RECORD UNDER VOLUME 35, PAGES 158 AND 159, PLAT RECORDS OF NUECES COUNTY, TEXAS, DOES AFFECT THIS TRACT AS SHOWN.	W CAP (CANEM &	
0.j A 15 FOOT UTILITY EASEMENT ALONG THE NORTHWEST SIDE(S), AS SHOWN BY PLAT FILED FOR RECORD UNDER VOLUME 15, PAGES 158 AND 159, PLAT RECORDS OF NUECES COUNTY, TEXAS, DOES AFFECT THIS TRACT AS SHOWN.	SEE INSET SEE IN	
0.k A 20 FOOT DRAINAGE EASEMENT ALONG THE NORTHWEST SIDE(S), AS SHOWN BY PLAT FILED FOR RECORD UNDER VOLUME 55, PAGES 158 AND 159, PLAT RECORDS OF NUECES COUNTY, TEXAS, DOES AFFECT THIS TRACT AS SHOWN.	SEE INSET "J" A S	
0.1 A 7.5 FOOT UTILITY EASEMENT ALONG THE SOUTHEAST SIDE(S), AS SHOWN BY PLAT FILED FOR RECORD UNDER VOLUME 55, PAGES 158 AND 159, PLAT RECORDS OF NUECES COUNTY, EXAS, DOES AFFECT THIS TRACT AS SHOWN.		
0.m SHARED VEHICULAR ACCESS ACROSS PROPERTY LINES SHALL NOT BE OBSTRUCTED, AS SHOWN BY PLAT FILED FOR RECORD UNDER VOLUME 65, PAGES 158 AND 159, PLAT RECORDS OF NUECES COUNTY, TEXAS, DOES AFFECT THIS TRACT.	PWP I	
0.n EASEMENTS RECORDED UNDER VOLUME 854, PAGE 290, OF THE DEED RECORDS OF NUECES COUNTY, TEXAS; AND ALSO TERMINATION OF EASEMENT RECORDED UNDER COUNTY CLERK'S FILE NO. 2006038049, OFFICIAL PUBLIC RECORDS OF NUECES COUNTY, TEXAS, DOES NOT AFFECT THIS TRACT.	PWP J	LOT 1
0.0 EASEMENTS RECORDED UNDER VOLUME 854, PAGE 292, OF THE DEED RECORDS OF NUECES COUNTY, TEXAS, CANNOT BE OCATED FROM DESCRIPTION.		
0.p EASEMENTS RECORDED UNDER COUNTY CLERK'S FILE NO. 2006033340, OFFICIAL PUBLIC RECORDS OF NUECES COUNTY, TEXAS, DOES NOT AFFECT THIS TRACT.		
0.q DEFERMENT AGREEMENT, RECORDED UNDER COUNTY CLERK'S FILE NO. 2007036385, OFFICIAL PUBLIC RECORDS OF NUECES COUNTY, TEXAS, DO AFFECT THIS TRACT.		
UTILITY NOTES	MOW RO POLY	
<ol> <li>The contractor(s) shall be responsible for confirming the location (horizontal &amp; vertical) of any buried cables, conduits, pipes, and structures (storm sewer, sanitary sewer and water). The contractor(s) shall be responsible for confirming the location (horizontal &amp; vertical) of gas, television, telephone and other utility easements which impact the construction site. The</li> </ol>	CR 26A BRATTON RD CREAT	
contractor(s) shall notify the owner if any discrepancies are found between the actual conditions and the data contained in the construction plans. Any costs incurred as a result of not verifying the actual location (horizontal & vertical) of said cables, conduits, pipes and structures shall be borne by the contractor(s).	T24-084 CORPUS CHRISTI, TX	
2. Adequate research to determine the location of intended boundary lines was made. In accordance with the Texas Board of Professional Land Surveyors, General Rules and Practices, Section 663.16 (c), research to support the delineation of easements, rights-of-way and restrictive covenants was not performed. The location of utilities shown hereon are from observed evidence of above ground appurtenances only. The surveyor was not provided with underground plans or surface	$\frac{CN}{3}$	
ground markings to determine the location of any subterranean		

VICINITY MAP



### AS SURVEYED LEGAL DESCRIPTION

120'

TOP OF RIM ELEV.= 24.82

TOP OF RIN ELEV.= 23.9

TOP OF RIM ELEV.= 25.39

TOP OF RIM ELEV.= 25.40

J

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All that certain lot, tract, or parcel of land, being a part of the Enriquez Villareal Survey, Abstract No. 1, Nueces County, Texas, and being part of Lot 3, Block 13 of Foxwood Estates, Phase III, as shown by plat of same recorded in Volume 65, Page 158 of the Plat Records of Nueces County, Texas, and being more completely described as follows, to-wit:

BEGINNING at a 5/8" iron rod (found) for the East corner of the above mentioned Lot 3, the North corner of Block 1 of Summer Wind Village, Phase VI, as shown by plat of same recorded in Volume 67, Page 769, in the Southwest right of way of Bratton Road;

THENCE South 28 deg. 43 min. 20 sec. West with the Northwest line of Block 1, the Southeast line of Lot 3, a distance of 173.01 ft. to a corner;

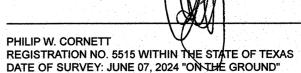
THENCE North 61 deg. 51 min. 15 sec. West, at 7.50 ft. pass a 1/2" iron rod (set) for reference, and continue a total distance of 299.84 ft. to 1/2" iron rod (set) for corner in the Northwest line of Lot 3, the Southeast right of way of Farm to Market Highway No. 43 (Weber Road);

THENCE northeasterly with the Southeast right of way of Farm to Market Highway No. 43, the Northwest line of Lot 3, North 28 deg. 44 min. 02 sec. East a distance of 157.93 ft. to a 1/2" iron rod (found) for corner and North 72 deg. 50 min. 00 sec. East a distance of 21.21 ft. to a 1/2" iron rod (found) for corner in the Southwest right of way of Bratton Road; THENCE South 61 deg. 51 min. 15 sec. East with the Souhwest right of way of Bratton Road, the Northeast line of Lot 3, a

distance of 285.04 ft. to the place of beginning, containing 1.188 acres of land.

ALTA / NSPS LAND TITLE SURVEY

- I, PHILIP W. CORNETT, REGISTERED PROFESSIONAL LAND SURVEYOR DO HEREBY CERTIFY TO THE OVERLAND NATIONAL TITLE INSURANCE COMPANY, INC AND/OR ASSIGNS; RICARDO LEON: MARIA VICTORIA LEON; AND THE ALLIANT NATIONAL TITLE INSURANCE COMPANY, INC AS OF THE DATE HEREOF THAT I HAVE MADE A CAREFUL SURVEY OF A TRACT OF LAND DESCRIBED AS FOLLOWS:
- THE ACCOMPANYING SURVEY WAS MADE ON THE GROUND AND CORRECTLY SHOWS THE LOCATION OF ALL BUILDINGS, STRUCTURES AND OTHER IMPROVEMENTS SITUATED ON THE ABOVE PREMISES AND THE COURSES AND DISTANCES SHOWN THEREON ARE CORRECT, AND THERE ARE NO VISIBLE ENCROACHMENTS ON THE SUBJECT PROPERTY OR UPON ADJACENT AND ABUTTING SAID PROPERTY EXCEPT AS SHOWN HEREON.
- THE TITLE LINES AND THE LINES OF ACTUAL POSSESSION ARE THE SAME, EXCEPT AS SHOWN.
- THE PROPERTY DESCRIBED HEREON IS THE SAME AS THE PROPERTY DESCRIBED IN TITLE COMMITMENT NO. 24-0592 (THE COMMITMENT), WITH AN EFFECTIVE DATE OF MARCH 14, 2024 AND AN ISSUED DATE OF MARCH 21, 2024 THAT ALL EASEMENTS, COVENANTS AND RESTRICTIONS REFERENCED IN SAID TITLE COMMITMENT ARE APPARENT FROM A PHYSICAL INSPECTION OF THE SITE OR OTHERWISE NOTED AS TO THEIR EFFECT ON THE SUBJECT PROPERTY.
- THE SUBJECT TRACT LIES IN ZONE "X" AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN, PER FEDERAL EMERGENCY MANAGEMENT AGENCY (FEMA), ON FLOOD INSURANCE RATE MAP NO. 48355C0510G WITH A MAP EFFECTIVE DATE OF OCTOBER 13, 2022, COUNTY OF NUECES, TEXAS, WHICH IS THE CURRENT FLOOD INSURANCE RATE MAP FOR THE COMMUNITY IN WHICH SAID PREMISES IS SITUATED.
- FARM-TO-MARKET HIGHWAY NO. 43 (WEBER ROAD) IS A PUBLIC DEDICATED RIGHT-OF-WAY AND IS IMMEDIATELY ADJACENT AND SERVES AS DIRECT ACCESS TO THE SUBJECT PROPERTY AND NO STRIPS, GORES OR GAPS ARE PRESENT.
- THE FIELD-MEASURED DESCRIPTION OF THE SUBJECT PROPERTY FORMS A MATHEMATICALLY CLOSED FIGURE.
- 8. THE LEGAL DESCRIPTION SHOWN ON THIS PLAN DESCRIBES THE SAME PROPERTY AS THAT IN THE COMMITMENT.
- 9. THERE ARE NO GAPS, GORES, OR STRIPS IN THE PARCELS OR LOTS THAT CONSTITUTE THE SUBJECT PROPERTY.
- 10. THIS IS TO CERTIFY THAT THIS MAP OR PLAT AND THE SURVEY ON WHICH IT IS BASED WERE MADE IN ACCORDANCE WITH THE "MINIMUM STANDARD DETAIL REQUIREMENTS FOR ALTA/NSPS LAND TITLE SURVEYS," JOINTLY ESTABLISHED AND ADOPTED BY ALTA AND NSPS IN 2021, AND INCLUDES ITEMS 1, 2, 3, 4, 6(A), 6(B), 7(A), 7(B)(1), 8, 9, 11, 13, 16, AND 18 OF TABLE A THEREOF. PURSUANT TO THE ACCURACY STANDARDS AS ADOPTED BY ALTA AND NSPS AND IN EFFECT ON THE DATE OF THIS CERTIFICATION, UNDERSIGNED FURTHER CERTIFIES THAT IN MY PROFESSIONAL OPINION, AS A LAND SURVEYOR REGISTERED IN THE STATE OF TEXAS, THE MAXIMUM RELATIVE POSITIONAL ACCURACY OF THIS SURVEY DOES NOT EXCEED THAT WHICH IS SPECIFIED THEREIN.



DATE OF LAST REVISION: OCTOBER 09, 2024 SURVEY PREPARED BY:

JOHN COWAN & ASSOCIATES, INC. 10147 CR 135, FLINT, TEXAS 75762 PHONE: 903-581-2238

WEBSITE: www.txsurveys.com E-MAIL: pcornett@jcowaninc.com **TEXAS REGISTRATION CERTIFICATION NO. 10025500** 



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COW2 10147 PH: (903) : RM REGIST

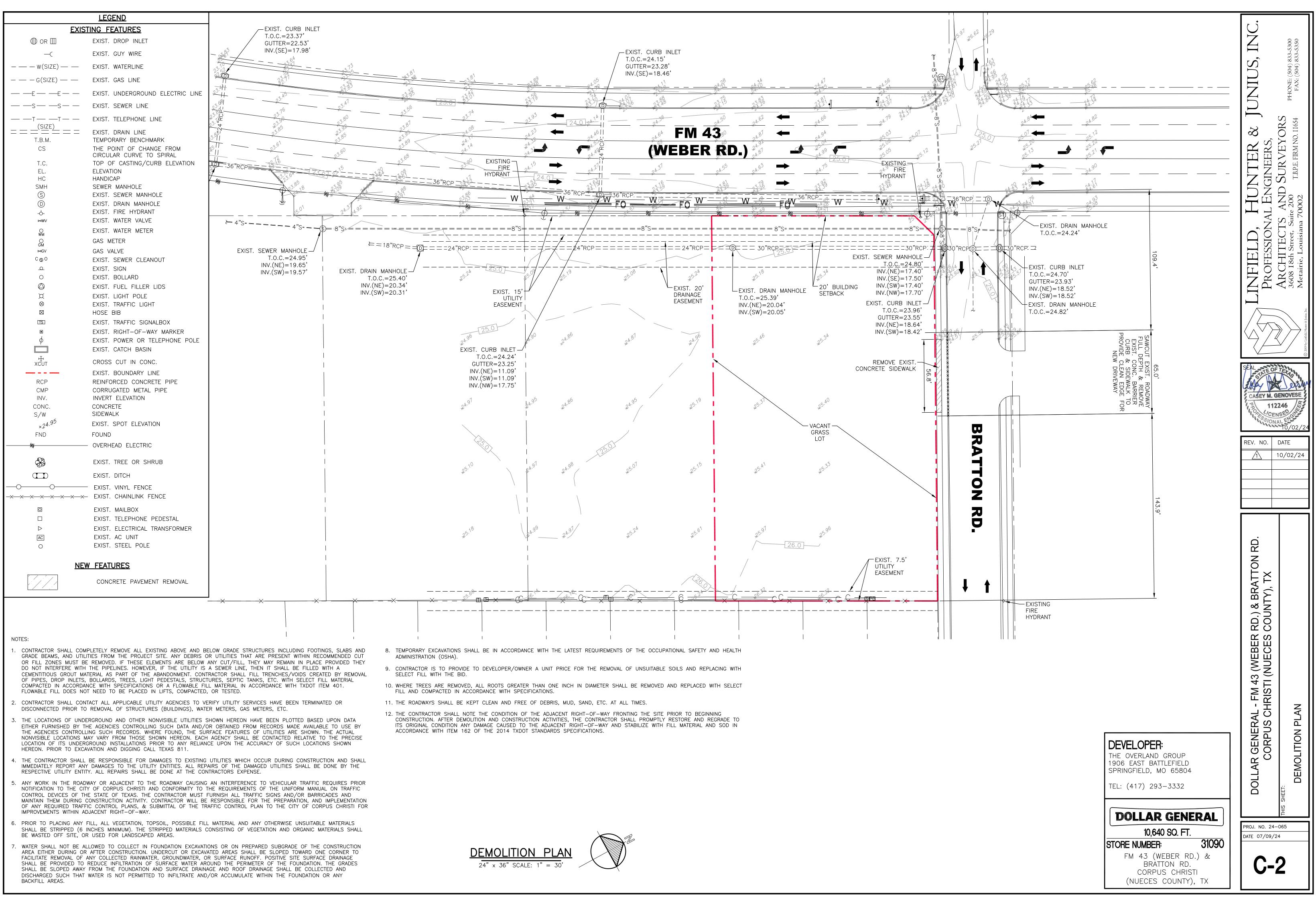
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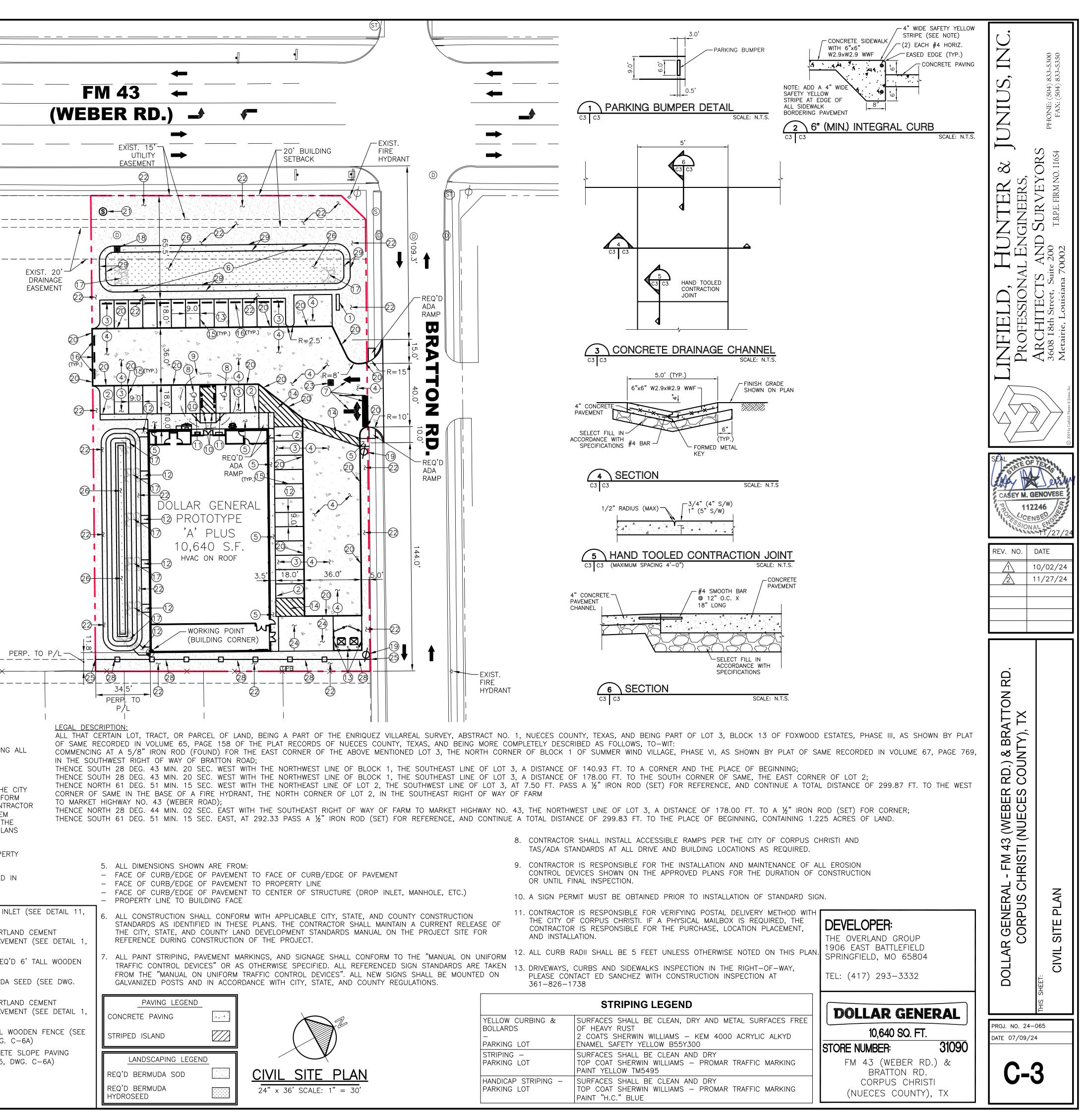
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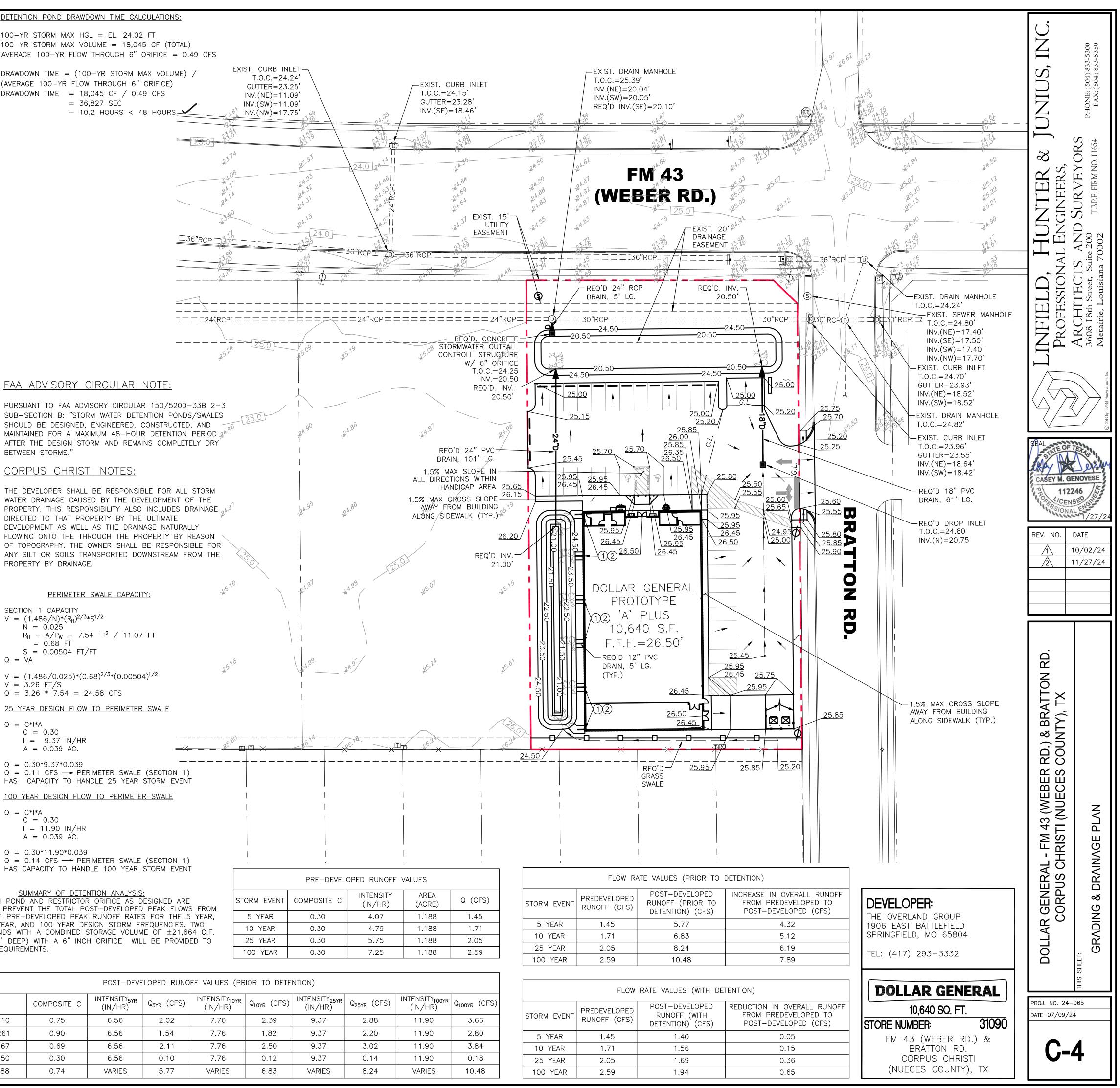
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	<u>LEGEND</u>									
<u>E</u>	XISTING FEATURES									
() or III	EXIST. DROP INLE	Г								
—(	EXIST. GUY WIRE							-		
— — — W(SIZE) — -	— EXIST. WATERLINE							<b></b>		
— — — G(SIZE) — -	— EXIST. GAS LINE									
— — E — — E — ·	- EXIST. UNDERGROU	JND ELECTRIC LINE						· · · · · ·		
— — S — — S — -	- EXIST. SEWER LIN	Ξ	-							
	— EXIST. TELEPHONE	LINE								
= = = = = = =	= EXIST. DRAIN LINE									
T.B.M. CS	TEMPORARY BENC THE POINT OF CH						_₩V	<u> </u>		
T.C.	CIRCULAR CURVE TOP OF CASTING/	TO SPIRAL					÷ Y	<u>)                                    </u>		
EL.	ELEVATION	CORB ELEVATION					<u> </u>			
HC SMH	HANDICAP SEWER MANHOLE		l R	 D						
S	EXIST. SEWER MAN									
© 	EXIST. DRAIN MAN EXIST. FIRE HYDR/									
₩V	EXIST. WATER VAL	VЕ								
С. WM	EXIST. WATER MET	ER								
⊙ GM ⋈GV	GAS METER GAS VALVE									
C © 0	EXIST. SEWER CLE	ANOUT								
<u>0</u>	EXIST. SIGN									
$\bigcirc$	EXIST. BOLLARD EXIST. FUEL FILLE	R LIDS								
X	EXIST. LIGHT POLE	-								
$\otimes$	EXIST. TRAFFIC LIC HOSE BIB	GHT								
TS	EXIST. TRAFFIC SI	GNALBOX								
	EXIST. RIGHT-OF-									
$\phi$	EXIST. POWER OR EXIST. CATCH BAS									
ц. Ч хсит	CROSS CUT IN CO									
	EXIST. BOUNDARY									
RCP	REINFORCED CONC									
CMP INV.	CORRUGATED META INVERT ELEVATION	AL PIPE								
CONC.	CONCRETE SIDEWALK									
S/W		IC								
	EXIST. TREE OR S	HRUB								
	EXIST. DITCH									
	EXIST. DHON	FENCE								
•	FOUND IRON PIPE	:								
0	DENOTES 1/2 IRC	ON ROD SET								
,	NEW FEATURES	_								
φ	REQ'D POWER POL	.E								
	REQ'D RIPRAP									
S	REQ'D DROP INLET REQ'D SEWER MAN			X				X	×	ф×
			]					+		+
<u>SITE PLAN ST</u>	ATISTICS									
EXISTING USE:	VACANT		NOTES	5:						
PROPOSED USE:	RETAIL					BE RESPONSIB				
DG SITE AREA:	1.188 ACRES					D GRADES AND STARTING CONST			REPANCIE	S IU IHE
BUILDING AREA:	10,640 SQ. FT. (GROSS)					ROADWAY OR A				
SALES FLOOR AREA:	8,409 SQ. FT.		0	F CORPUS (	CHRIS	VEHICULAR TRAFI	IITY TO T	HE REQUIRE	MENTS O	F THE UNIF
PARKING REQ'D:	34 SPACES (1/250 S.F.	NET RETAIL)	М	UST FURNISI	H ALL	C CONTROL DEV	AND/OR	BARRICADES	AND MA	INTAIN THE
PARKING PROVIDED:	35 SPACES (33 REGULA	R SPACES)	Ρ	REPARATION	AND	TION ACTIVITY. CO	OF ANY	REQUIRED T		
HANDICAP SPACES						S WITHIN ADJACE				
PROVIDED:	2 W/2 VAN ACCESSIBLE			EFER TO BO NE.	UNDA	RY SURVEY FOR	EXISTING	MONUMENTS	S TO LAY	OUT PROPE
BUILDING HEIGHT PROPOSED:	18'±					JNDER ALL PAVE		TH STRUCTUR	AL FILL	COMPACTED
			A	CCORDANCE	WITH	SPECIFICATIONS.				
TRUCK TYPE:	WB-67	REQ'D PAVEMENT			6	REQ'D CONCRET	E_PARKIN	NG BUMPER	C RE	Q'D DROP II
		DETAILS 1 & 3, E REQ'D HANDICAP			-	(SOLID YELLOW) THIS SHEET)	(SEE DE	ETAIL 1,	-	G. C-6) Q'D 8" PORT
	<u>ON LEGEND</u>	DETAIL 10, DWG.	C-6)	· ·	$\bigcirc$	REQ'D 12" STO			COL	NCRETE PAV
	D INSTALLATION TO	REQ'D HANDICAP (SEE DETAIL 5, D'				(UNDERLAIN W/ IN ACCORDANCE	W/TXDC	DT ITEM 432)		G. C-6A) GIN/END REG
	BY CONTRACTOR GRAL CURB W/ 4"	REQ'D PIPE BOLLA	ARD (	SEE DETAIL	13	REQ'D STORMWA	ATER OUT	FALL	FEN	
WIDE SAFETY YI (SEE DETAIL 2,	ELLOW STRIPÉ	8, DWG. C-6) REQ'D HANDICAP			$\sim$	13, DWG. C-6)	·		<b>6</b> REC L-1	)'D BERMUD I)
3 REQ'D LIGHT DU	-	(SEE DETAIL 4, D' REQ'D CONCRETE			()	REQ'D NEW UTI ELECTRIC COMP	ANY AT		$\sim$	O'D 8" PORT NCRETE PAV
DETAIL 2A, DWG	G. C−6)	CHANNEL (SEE DE				CONTRACTOR'S LOCATION TO B	E DETERN	INED IN	DWO	G. C-6A)
(4) REQ'D HEAVY D CEMENT CONCR	UTY PORTLAND ETE PAVEMENT (SEE 🚺	SHEET) REQ'D DUMPSTER	/ cc	MPACTOR	Ø	THE FIELD, SEE REQ'D FIRE LAN		-	$\sim$	Q'D 6' TALL AIL 4, DWG
DETAIL 2B, DWG	G. C-6)	ENCLOSURE (SEE C-6B)			J	WIDE RED STRIF LETTERS: "NO F	PING) W/	3" WHITE	(9) REC	O CONCRE
(5) REQ'D CONCRET DETAIL 7, DWG.	C-6)	REQ'D 4" WIDE YE	ELLOW	STRIPING	~	TOW AWAY ZON	E"EVERY	25 <b>'</b>	(SE	E DETAIL 5,
6 REQ'D DETENTIC	N POND (SEE DWG. 🕥	@ 45° @ 4' O.C. Req'd 4" wide ye	ELLOW	STRIPING	0	REQ'D SEWER M DETAIL 14, DWC		(SEE		
C-4)	Ũ				<b>(</b> 2)	REQ'D BERMUDA		FF DWG. I-	1)	

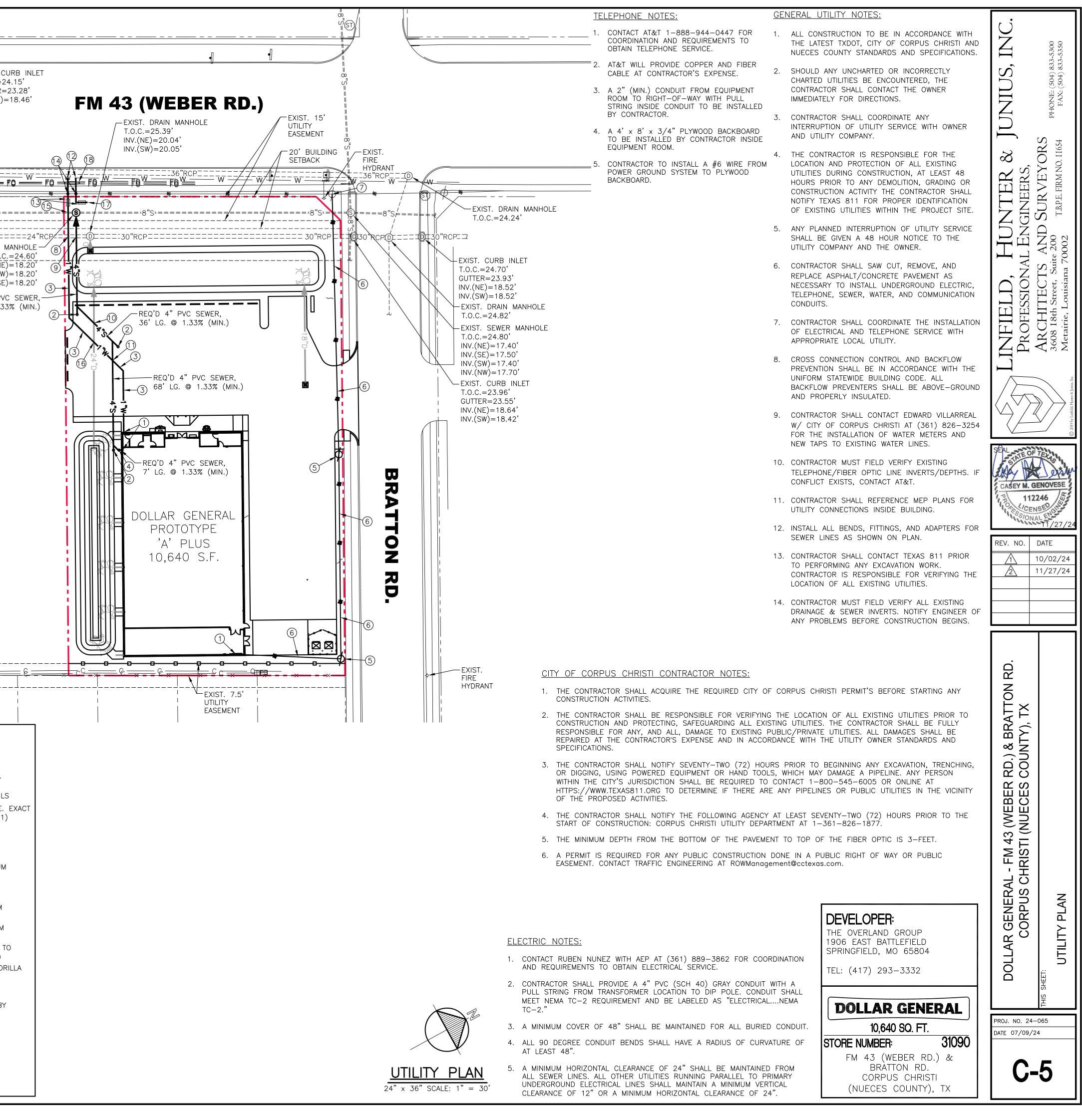


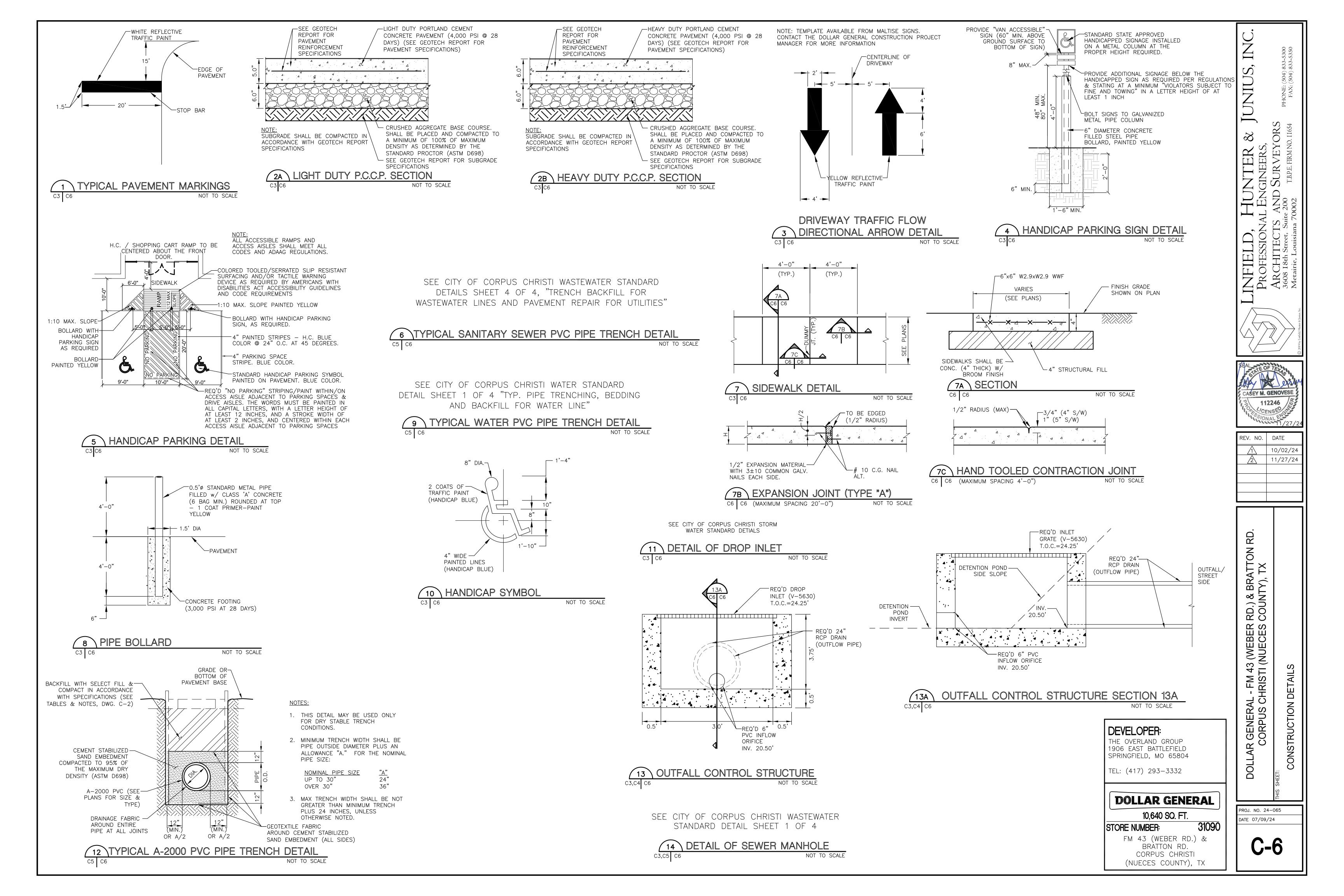
LEGEND	G	ENERAL NOTES:		<u>DETENTI</u>	ON POND
		SEE DRAWING C-3 FOR GEOMETRY ASSOCIATED WI	T11		R STORM N R STORM N
		NEW CONSTRUCTION.			E 100-YR
— ( EXIST. GUY WIRE — — — W(SIZE) — — EXIST. WATERLINE	2.	ELEVATIONS SHOWN REFER TO NAVD88 DATUM.		DRAWDC	OWN TIME
G(SIZE) EXIST. GAS LINE	3.	ALL CONSTRUCTION TO BE IN ACCORDANCE WITH TLATEST CITY OF CORPUS CHRISTI AND STANDARDS	THE	•	GE 100-YF DWN TIME
E		AND SPECIFICATIONS.			
	4.	CONCRETE TO DRAIN AS SHOWN.			
	5.	APPROVAL OF THIS PLAN IS NOT AN AUTHORIZATIC TO GRADE ADJACENT PROPERTIES WHEN FIELD	N		
$= = \underbrace{(SIZE)}_{T.B.M.} = = EXIST. DRAIN LINE TEMPORARY BENCHMARK$		CONDITIONS WARRANT OFF SITE GRADING, PERMISS MUST BE OBTAINED FROM THE AFFECTED PROPERT			
CS THE POINT OF CHANGE FROM CIRCULAR CURVE TO SPIRAL		OWNERS.	I		
T.C. TOP OF CASTING/CURB ELEVATION	6.	CONTRACTOR IS RESPONSIBLE FOR ENSURING	-		
EL. ELEVATION HC HANDICAP		PROPOSED GRADES AND OTHER IMPROVEMENTS AR CONSTRUCTED IN ACCORDANCE WITH ADA & TAS	£		
SMHSEWER MANHOLESEXIST. SEWER MANHOLE		ACCESSIBILITY STANDARDS CRITERIA.			
D EXIST. DRAIN MANHOLE 	7.	OUT THE WORK AND VERIFYING ALL MEASUREMENT			
EXIST. WATER VALVE		AND GRADES AND REPORTING ANY DISCREPANCIES THE ENGINEER BEFORE STARTING CONSTRUCTION.	ТО		
© EXIST. WATER METER © GAS METER	8.	THE GRADE IN THE GRASS AND LANDSCAPED AREA			
GM ⋈GV GAS VALVE		SHALL COME TO THE TOP OF THE PAVEMENT UNLE OTHERWISE SHOWN ON THE DRAWINGS.	ESS		
C (S) OEXIST. SEWER CLEANOUTOEXIST. SIGN	9.	CONTRACTOR SHALL CONFIRM ALL EXISTING SLOPE	S		
O EXIST. BOLLARD		FOR ACCESSIBLE ROUTES AS WELL AS THE ACCESSIBLE PARKING STALLS AND ACCESSIBLE AIS	LES		
<ul><li>EXIST. FUEL FILLER LIDS</li><li>EXIST. LIGHT POLE</li></ul>		WITH A SLOPE METER TO CONFIRM MAXIMUM SLOP ARE NOT EXCEEDED.	PES		
<ul><li>⊗ EXIST. TRAFFIC LIGHT</li><li>⋈ HOSE BIB</li></ul>	10	. CONTRACTOR IS REQUIRED TO PROVIDE AS-BUILT			
EXIST. TRAFFIC SIGNALBOX		SPOT ELEVATIONS ALONG THE ACCESSIBLE ROUTES SHOWN ON THIS PLAN EVERY 10' IN ORDER TO		<u>FAA</u>	ADVISC
$\blacksquare \qquad \qquad$		CONFIRM MAXIMUM (2%) CROSS-SLOPE AND MAXIM	ИИМ		ANT TO F
EXIST. CATCH BASIN		(5%) SLOPES IN THE DIRECTION OF TRAVEL. IN ADDITION, SPOT ELEVATIONS ARE REQUIRED ON AL		SHOUL	D BE DES
中 XCUT CROSS CUT IN CONC.		CORNERS AND MIDPOINTS OF ACCESSIBLE PARKING STALLS AND ACCESSIBLE AISLES TO CONFIRM MAXI	MUM	AFTER	THE DESI
EXIST. BOUNDARY LINERCPREINFORCED CONCRETE PIPE		2% SLOPES ARE NOT EXCEEDED IN ALL DIRECTION THIS INFORMATION SHALL BE PROVIDED A MINIMUM			EN STORM
CMP CORRUGATED METAL PIPE INV. INVERT ELEVATION		4 WEEKS BEFORE STORE TURNOVER.			PUS CH
CONC. CONCRETE S/W SIDEWALK	11.	. AT ADJOINING MATERIALS THERE IS TO BE A SMOC AND LEVEL TRANSITION OF NO MORE THAN 1/4"		WATER	EVELOPER DRAINAGE
$\times 2^{4.95}$ EXIST. SPOT ELEVATION		VERTICAL CHANGE.			RTY. THIS ED TO TH
FND FOUND	12	. CONTRACTOR TO CHECK EXISTING SPOT GRADES A AREAS OF NEW AND ADJACENT EXISTING SIDEWALK			OPMENT AS NG ONTO T
		AND/OR PAVING PRIOR TO BEGINNING OF CONSTRUCTION TO VERIFY THAT COMPLIANCE WITH			POGRAPHY ILT OR SO
EXIST. TREE OR SHRUB		SLOPE LIMITS CAN BE MET.		PROPE	RTY BY DI
EXIST. VINYL FENCE	13	. THE ABOVE MAXIMUM SLOPES ARE BASED OFF THE 2012 TAS/ADA REQUIREMENTS WHILE THE DESIGN			PERI
		PROPOSED AT LESS THAN THE REQUIREMENTS TO ACCOUNT FOR MINOR GRADING ERRORS IN THE FIL		SECTIC	N 1 CAPA
<ul> <li>FOUND IRON PIPE</li> <li>EXIST. MAILBOX</li> </ul>	14	. SEE MEP DRAWINGS FOR UTILITY LOCATIONS.			1.486/N)* = 0.025
EXIST. TELEPHONE PEDESTAL	15	. A TCEQ COMPLIANT STORM WATER POLLUTION			$H = A/P_W$ = 0.68
DEXIST. ELECTRICAL TRANSFORMERACEXIST. AC UNIT		PREVENTION PLAN WILL BE PROVIDED TO THE CITY PRIOR TO ANY CONSTRUCTION ACTIVITIES.	,	Q = V	/A 0.005
O EXIST. STEEL POLE		CONSTRUCTION LEGEND			1.486/0.0 3.26 FT/S
ELEV EXIST. CONTOURS NEW FEATURES		D SEE MEP DRAWINGS FOR UTILITY LOCATION			3.26 * 7.5
DRAINAGE ARROW		2) REQ'D MIN. 5' LONG, 4" PERFORATED LANDSCAPE PIPE STRAPPED TO A 12"X24"			AR DESIGN
25.95GUTTER ELEVATION26.45TOP OF CURB ELEVATION		CONCRETE SPLASH BLOCK (SEE DETAIL 3, DWG. C—6A)			= 0.30
T.O.C. 24.80 TOP OF CASTING ELEVATION					= 9.37 = 0.039
G.L. GRADE LINE					).30*9.37* ).11 CFS -
T.O.C. TOP OF CASTING F.P.G. FINISHED PAVEMENT GRADE					CAPACITY
T.O.D. TOP OF DITCH				$\frac{100 \text{ Ye}}{Q = 0}$	EAR DESIG
B.O.D. BOTTOM OF DITCH				C	= 0.30 = 11.90
P/L	/			A	. = 0.039
	/			Q = C	).30*11.90 ).14 CFS -
11.8' REQ'D SWALE	/			HAS C	ΑΡΑΟΙΤΥ ΤΟ
	/	THE DE	TENTION		MMARY OF
26.32 LOW POINT		AR GENERAL SUFFICIE	ENT TO	PREVEN	NT THE TO
	/ F	DETENTI	ON POI	NDS WIT	ND 100 YE H A COME
26.°		(3.50 MEET TH			) WITH A MENTS.
$ \underbrace{\begin{array}{c c} 1 \\ C4 \end{array} PERIMETER SWALE SECTION 1 \\ SCALE: 1'' = 3' \end{array} } $		DRAINAG	e area		COMPOSI
		DA 1		410	0.75
	1	DA 2 DA 3		261 467	0.90
<u>GRADING &amp; DRAINAGE PLAN</u>		DA 3 DA 4		)50	0.30
24" × 36" SCALE: 1" = 30'		TOTAL	1.1	88	0.74

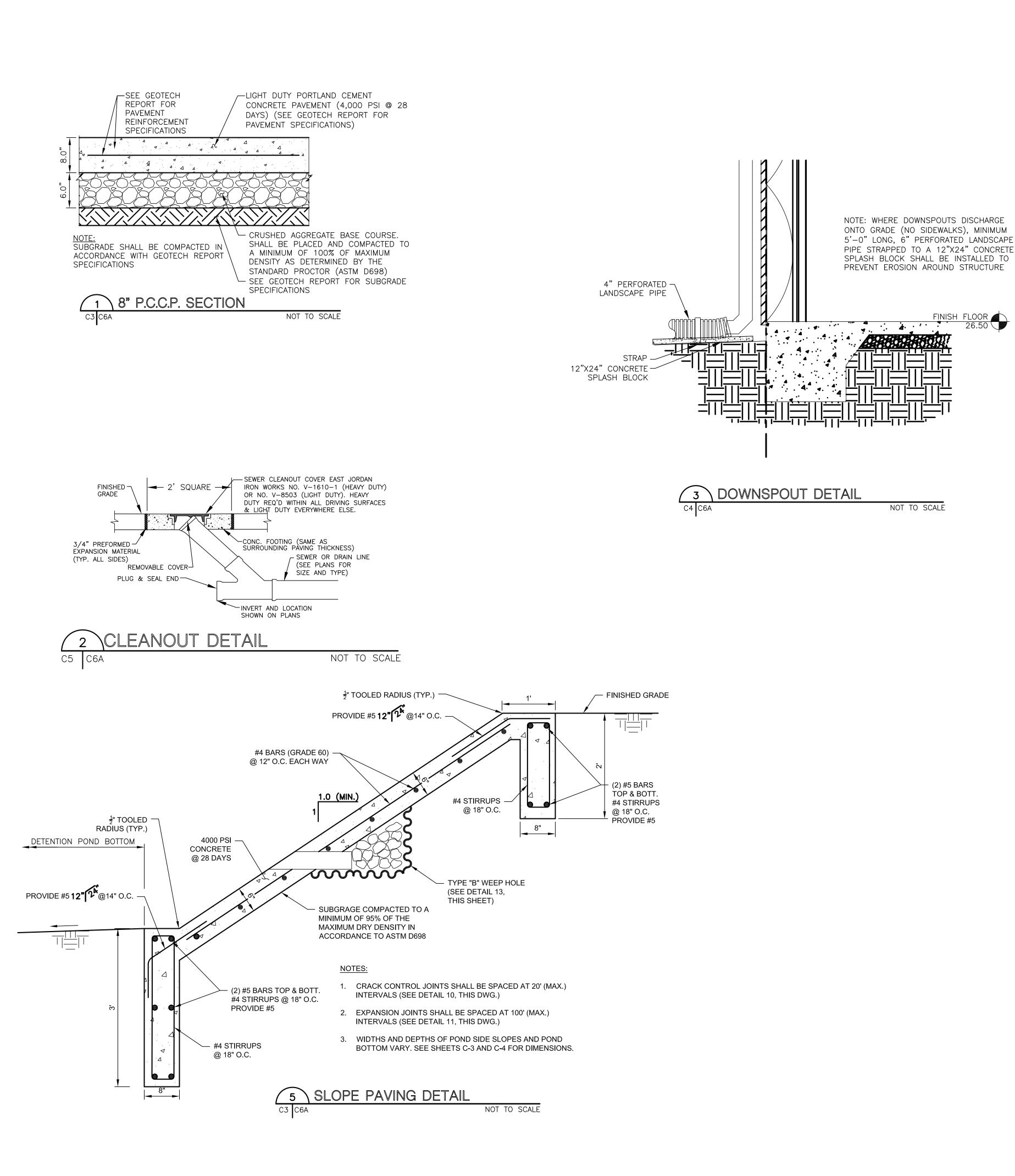


SITE C

	LEGEND	
	TING FEATURES	
	EXIST. DROP INLET	
—(	EXIST. GUY WIRE	
—————W(SIZE)———	EXIST. WATERLINE	EXIST. CU
G(SIZE)	EXIST. GAS LINE	GUTTER=
— — — E — — — E — — —	EXIST. UNDERGROUND ELECTRIC LINE	EXIST. CURB INLET
— — — S — — — S — — — –	EXIST. SEWER LINE	
— — — T — — — T — — — (SIZE)	EXIST. TELEPHONE LINE	INV.(NE)=11.09' INV.(SW)=11.09'
	EXIST. DRAIN LINE	<u>INV.(NW)</u> =17.75'
T.B.M. CS	TEMPORARY BENCHMARK THE POINT OF CHANGE FROM	WWWWWWW
T.C.	CIRCULAR CURVE TO SPIRAL TOP OF CASTING/CURB ELEVATION	
EL.	ELEVATION	
HC SMH	HANDICAP SEWER MANHOLE	======================================
S	EXIST. SEWER MANHOLE	24"RCP====================================
© -&-	EXIST. DRAIN MANHOLE EXIST. FIRE HYDRANT	REQ'D SEWER N
MMA	EXIST. WATER VALVE	T.O.C. INV.(NE)
O WM	EXIST. WATER METER	EXIST. 20' INV.(SW) DRAINAGE INV.(SE)
⊖ GM ⋈GV	GAS METER GAS VALVE	EASEMENT REQ'D 4" PVC
C © 0	EXIST. SEWER CLEANOUT	61' LG. @ 1.33
<u>0</u> O	EXIST. SIGN EXIST. BOLLARD	
$\bigcirc$	EXIST. FUEL FILLER LIDS	
¤	EXIST. LIGHT POLE	
$\otimes$	EXIST. TRAFFIC LIGHT HOSE BIB	
TS	EXIST. TRAFFIC SIGNALBOX	
۵ ط	EXIST. RIGHT-OF-WAY MARKER	
$\phi$	EXIST. POWER OR TELEPHONE POLE EXIST. CATCH BASIN	
ці ХСИТ	CROSS CUT IN CONC.	
	EXIST. BOUNDARY LINE	
RCP CMP	REINFORCED CONCRETE PIPE CORRUGATED METAL PIPE	
INV.	INVERT ELEVATION	
CONC. S/W	CONCRETE SIDEWALK	
× 21.81	EXIST. SPOT ELEVATION	
FND	FOUND	
	OVERHEAD ELECTRIC	
- Alexandre	EXIST. TREE OR SHRUB	
	EXIST. DITCH	
	EXIST. VINYL FENCE	
-xxxxxxxxxxxxxxxx	EXIST. CHAINLINK FENCE	
	EXIST. MAILBOX	
	EXIST. TELEPHONE PEDESTAL EXIST. ELECTRICAL TRANSFORMER	
AC	EXIST. AC UNIT	
Ο	EXIST. STEEL POLE	
NEW	/ FEATURES	
	REQ'D SEWER CLEANOUT	
×*c	REQ'D GAS LINE	
X"D	REQ'D DRAIN LINE	(1) SEE MEP DRAWINGS FOR UTILITY LOCATION
X*S	REQ'D SEWER LINE	(2) REQ'D CLEANOUT (SEE DETAIL 2, DWG. $C-6A$ )
	REQ'D ELECTRICAL CONDUIT REQ'D TELEPHONE CONDUIT	3 REQ'D 1" PVC WATER LINE (SEE DETAIL 9, DWG. C-6) (SEE CITY
	REQ'D WATERLINE	OF CORPUS CHRISTI WATER STANDARD DETAIL SHEET 1 OF 4 "TYP. PIPE TRENCHING, BEDDING AND BACKFILL FOR WATER LINE")
	REQ'D OVERHEAD ELECTRIC	4 REQ'D TWO-WAY SEWER CLEANOUT, SEE MEP DRAWINGS FOR DETAILS
PVC RCP	POLYVINYL CHLORIDE REINFORCED CONCRETE PIPE	(5) REQ'D UTILITY POLE INSTALLED BY AEP AT CONTRACTOR'S EXPENSE. LOCATION TO BE DETERMINED IN THE FIELD. (SEE ELECTRIC NOTE 1)
RCPA	REINFORCED CONCRETE PIPE ARCH	REQ'D OVERHEAD ELECTRIC LINE TO BE INSTALLED BY AEP AT CONTRACTOR'S EXPENSE (SEE ELECTRICAL NOTE 1)
(W) (D)	REQ'D WATER WELL REQ'D DRAIN MANHOLE	DELECTRICAL CONNECTION AT UTILITY POLE TO BE PERFORMED BY
Ø	REQ'D POWER POLE	AEP (SEE ELECTRIC NOTE 1) (B) INSTALL NEW WATER LINE ABOVE EXIST. DRAIN LINE WITH A MINIMUM
CENERAL NOTES		VERTICAL CLEARANCE OF 18"
<u>GENERAL NOTES:</u>		(9) INSTALL NEW SEWER LINE BELOW EXIST. DRAIN LINE WITH A MINIMUM VERTICAL CLEARANCE OF 12"
1. ALL PVC DRAIN PIPE SH C-6)	IALL BE A-2000 (SEE DETAIL 12, DWG.	INSTALL NEW SEWER LINE BELOW NEW DRAIN LINE WITH A MINIMUM VERTICAL CLEARANCE OF 12"
2. ALL RCP DRAIN PIPE SH	IALL BE CLASS IV, WALL TYPE B	() INSTALL NEW SEWER LINE BELOW NEW WATER LINE WITH A MINIMUM
	ES & CONDUITS SHALL BE PROPERLY	VERTICAL CLEARANCE OF 12"
INSULATED		EXISTING 8" WATER MAIN W/ TS&V (SEE GENERAL UTILITY NOTE 9)
<u>GENERAL NOTES FOR D</u> STRUCTURES:	RAIN OR SEWER TIE-IN TO EXIST	REQ'D ABOVE-GROUND 1" RPZ BACKFLOW PREVENTER WITHIN A GOR CAGE ON A 4" CONCRETE PAD (SEE GENERAL UTILITY NOTE 8)
	IRES, CORE-DRILL THE REQUIRED OPEN	NG REQ'D 1" WATER METER & COPPER WATER LINE EXTENSION UP TO METER. METER INSTALLED BY CITY OF CORPUS CHRISTI AT
OR DRILL HOLES AROUN	D THE PERIMETER OF THE REQUIRED TION CAN BE TAKEN OUT WITHOUT DAM	CONTRACTOR'S EXPENSE & METER BOX FURNISHED & INSTALLED BY
TO THE STRUCTURE. FOR	R LARGE STRUCTURES, SAW-CUTTING M. Fhod, allow adequate spacing for	INSTALL NEW WATER LINE ABOVE EXIST. SEWER LINE WITH A MIN.
	ROUT. ANY REINFORCEMENT LEFT IN-PL	ACE VERTICAL CLEARANCE OF 24"
	D IN THE PATCH WORK. FOR THE DRAIN TIE-IN SHALL BE COA	TED INSTALL NEW WATER LINE ABOVE NEW DRAIN LINE WITH A MIN.
WITH AN APPROVED EPO	. FOR THE DRAIN TIE—IN SHALL BE COA XY AND ROLLED IN MORTAR SAND TO RFACE BETWEEN THE OUTER PIPE WALL	REQ'D 1" IRRIGATION STUB
THE PATCH MATERIAL. C	ONTRACTOR HAS THE OPTION OF	AND (B) INSTALL NEW WATER LINE ABOVE/BELOW EXIST. FIBER OPTIC LINE WITH A MINIMUM VERTICAL CLEARANCE OF 18"
SUPPLIERS.	S WITH PREPARED SURFACES FROM	

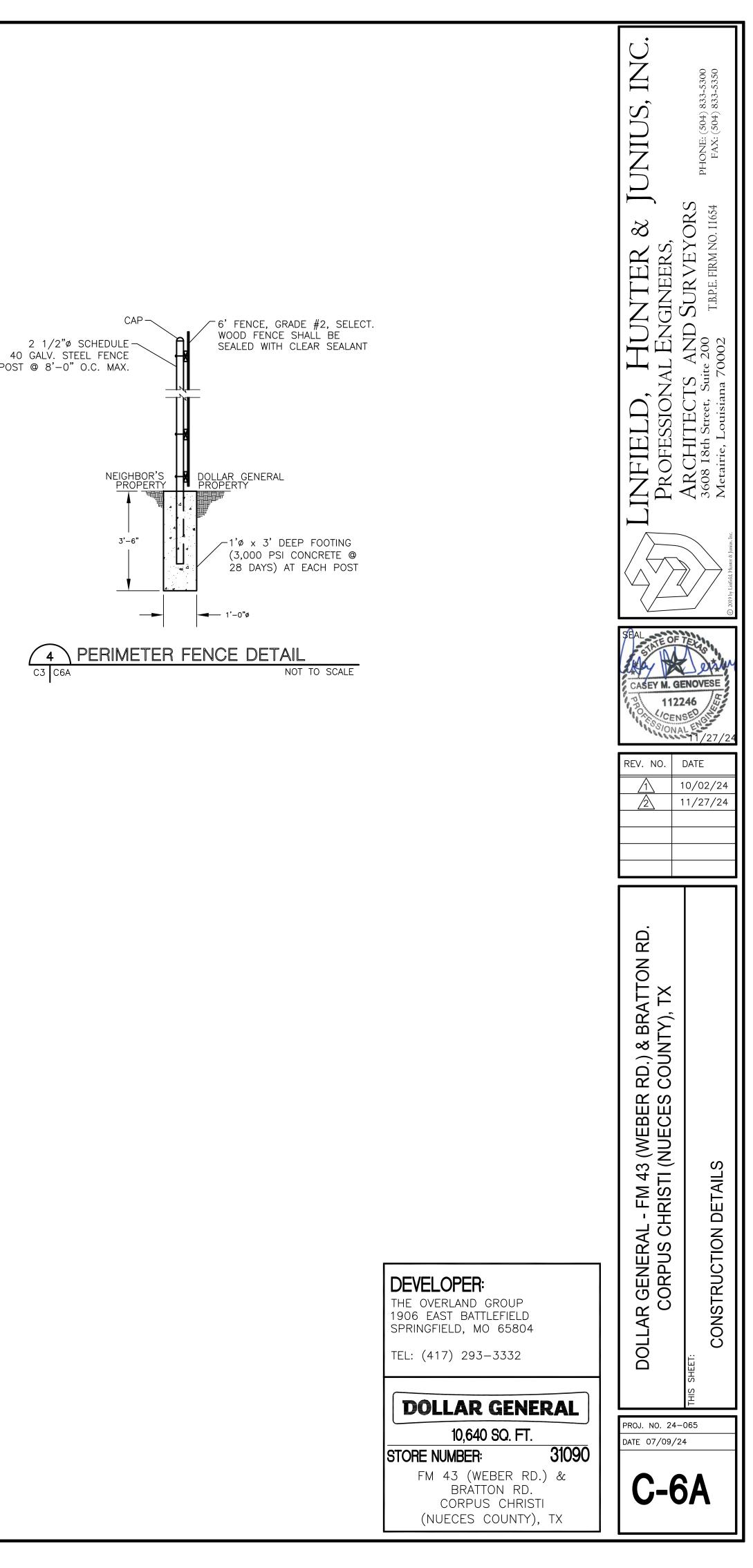


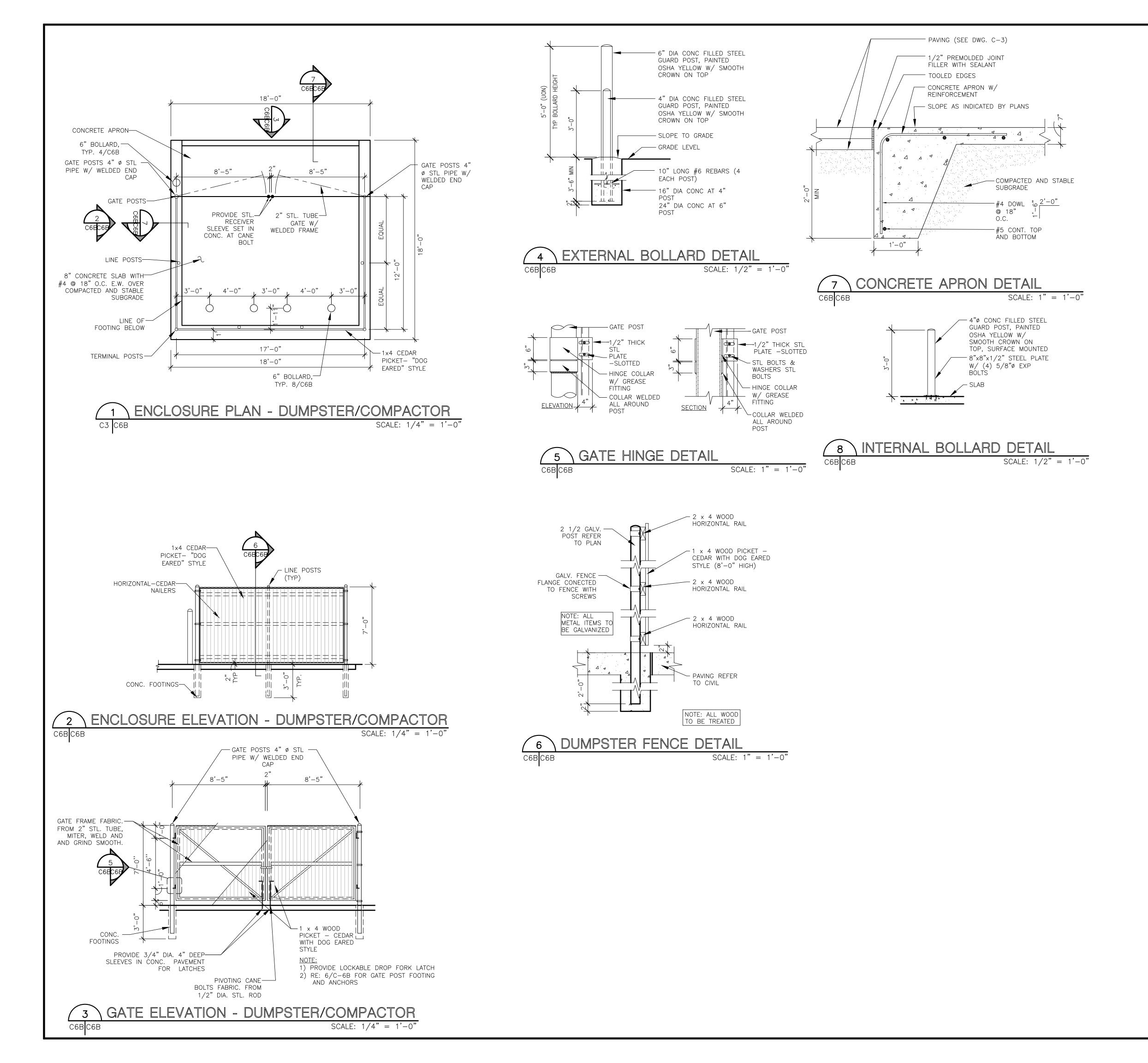


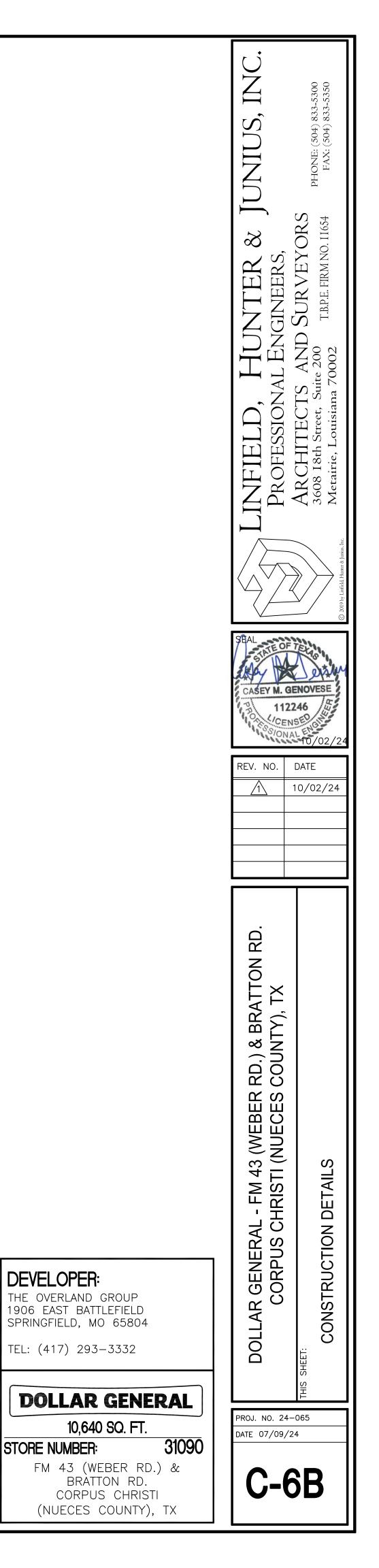


POST @ 8'-0" O.C. MAX.

**4** ` C3 C6A

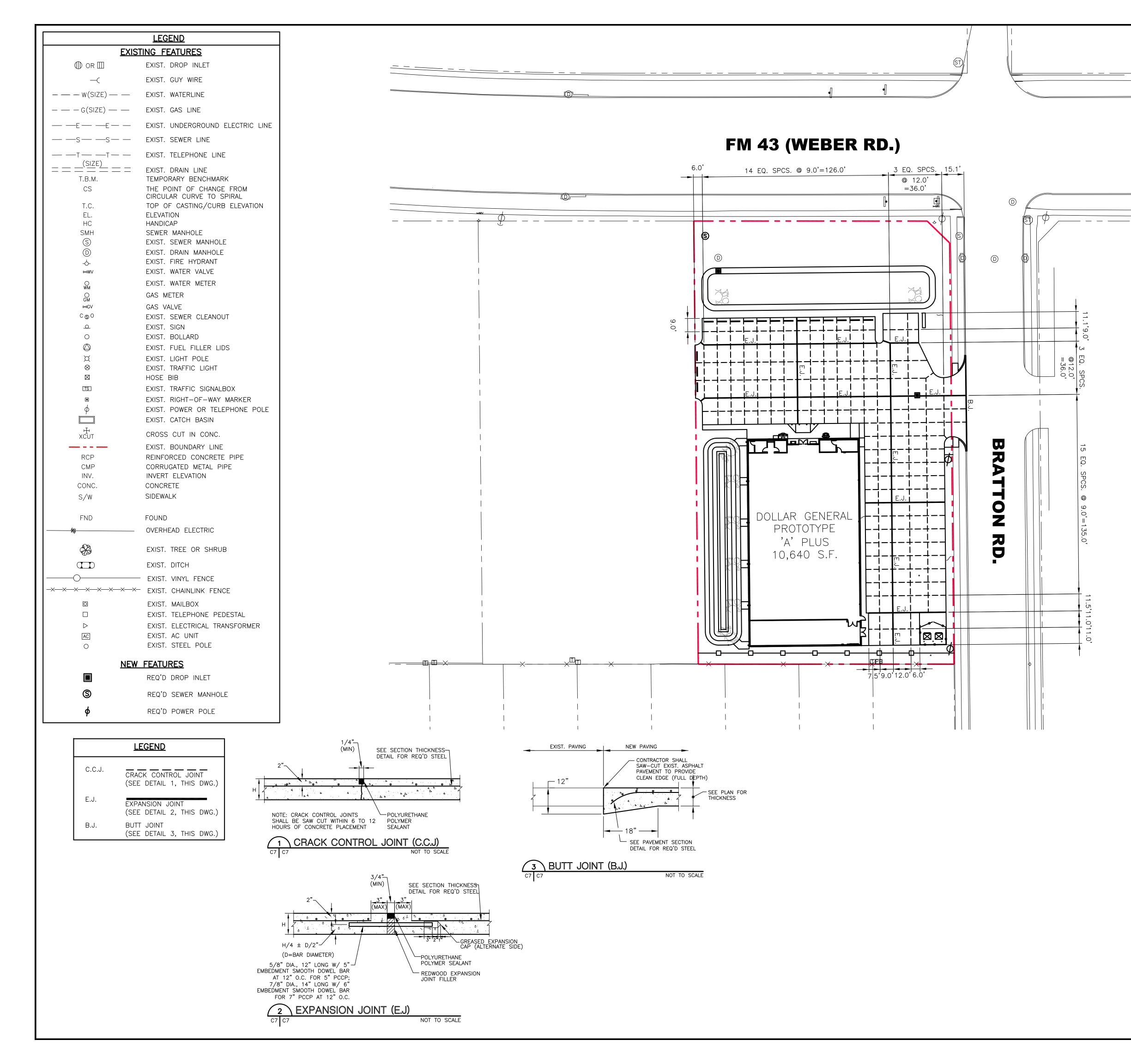


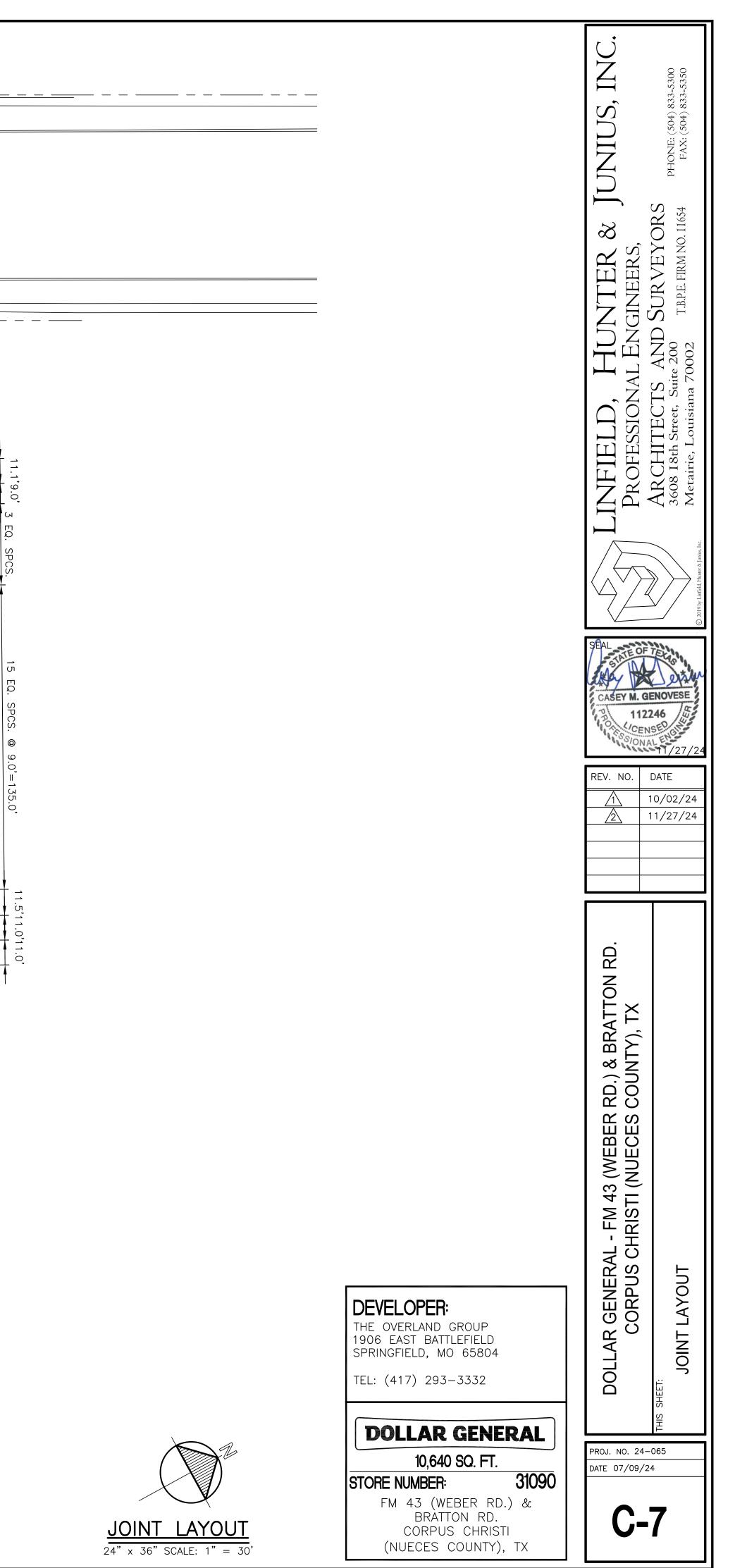




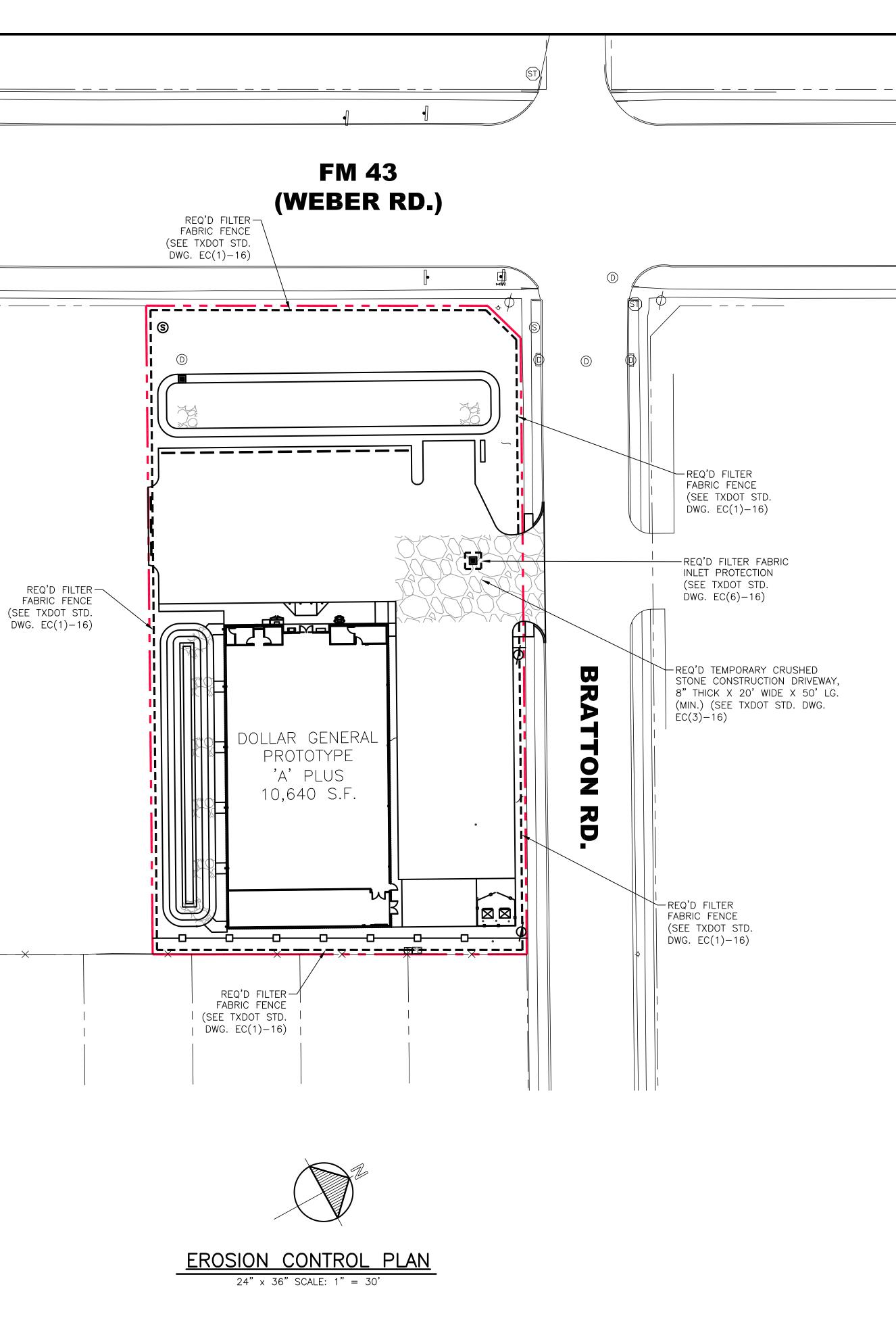
DEVELOPER:

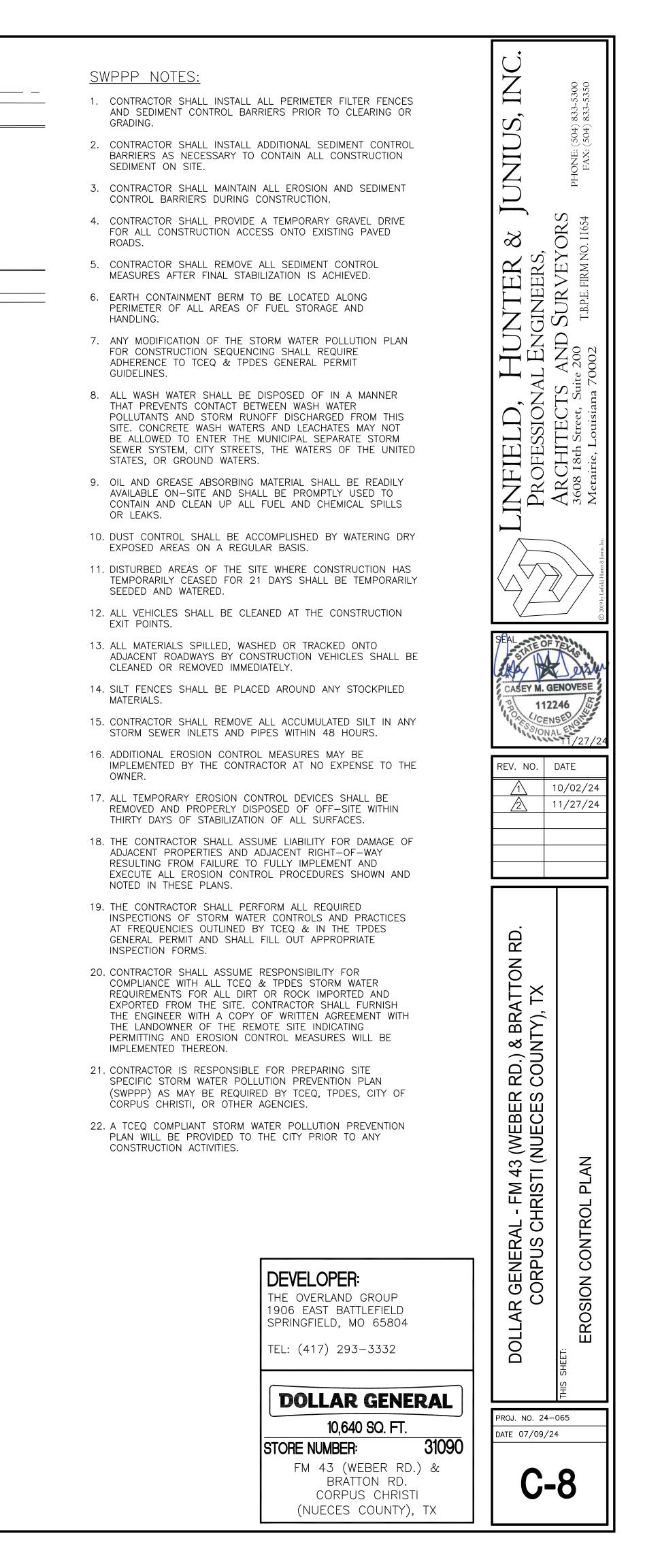
STORE NUMBER:

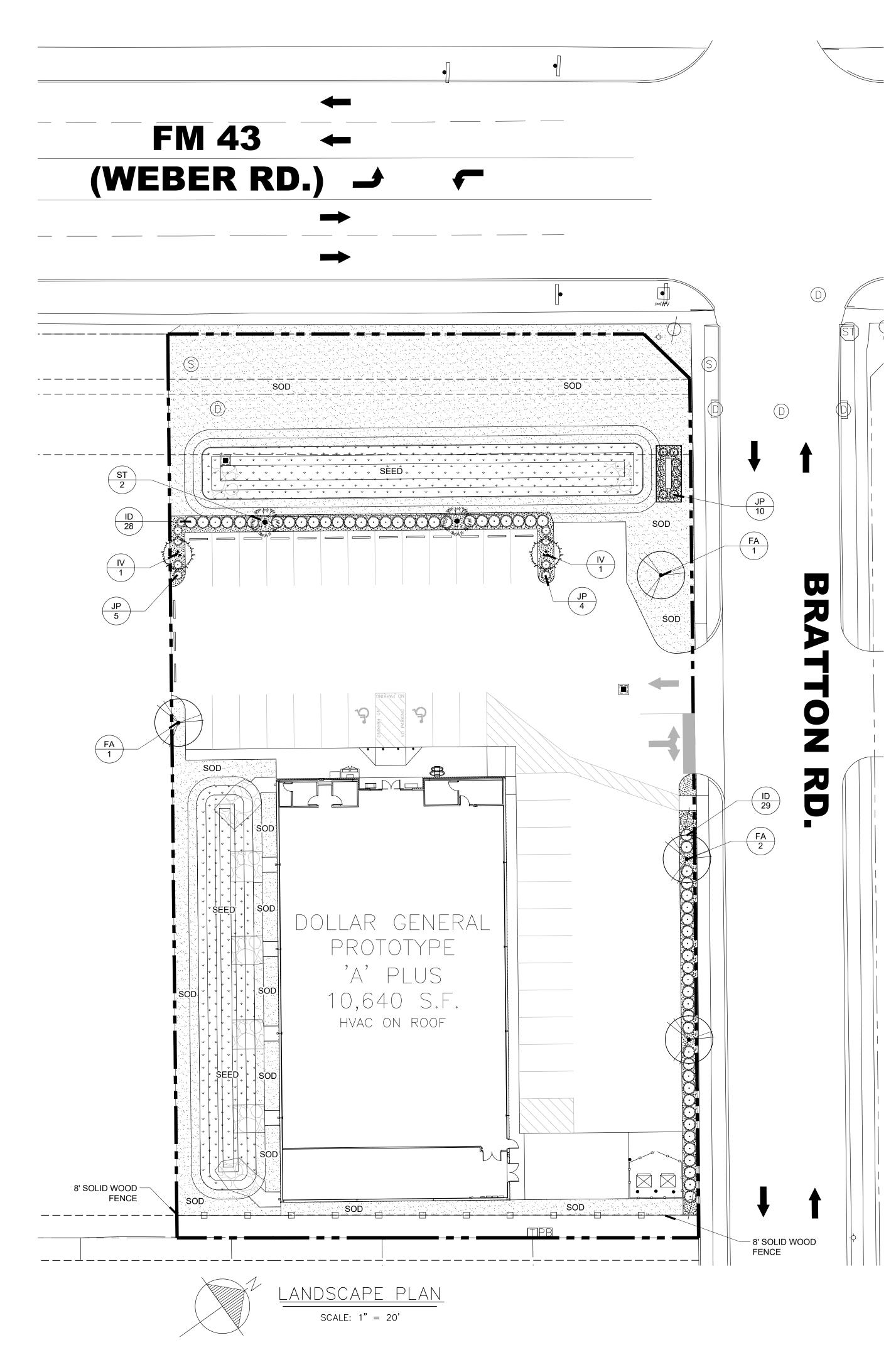


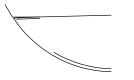


	<u>LEGEND</u>	
<u>EXIS</u>	TING FEATURES	
⊕ OR Ⅲ	EXIST. DROP INLET	
—(	EXIST. GUY WIRE	
— — — W(SIZE) — —	EXIST. WATERLINE	
— — — G(SIZE) — —	EXIST. GAS LINE	
— —E— —E— —	EXIST. UNDERGROUND ELECTRIC LINE	
— — S — — S — —	EXIST. SEWER LINE	
— — T — — T — —	EXIST. TELEPHONE LINE	
(SIZE)	EXIST. DRAIN LINE	
T.B.M.	TEMPORARY BENCHMARK	
CS	THE POINT OF CHANGE FROM CIRCULAR CURVE TO SPIRAL	
T.C.	TOP OF CASTING/CURB ELEVATION	
EL.	ELEVATION	
HC SMH	HANDICAP SEWER MANHOLE	
S	EXIST. SEWER MANHOLE	
$\bigcirc$	EXIST. DRAIN MANHOLE	
-0- >ww	EXIST. FIRE HYDRANT EXIST. WATER VALVE	
o ₩M	EXIST. WATER METER	
$\overline{(\cdot)}$	GAS METER	
GM ⋈GV	GAS VALVE	
C	EXIST. SEWER CLEANOUT	
<u>0</u>	EXIST. SIGN	
$\circ$	EXIST. BOLLARD EXIST. FUEL FILLER LIDS	
X	EXIST. LIGHT POLE	
$\otimes$	EXIST. TRAFFIC LIGHT	
$\boxtimes$	HOSE BIB	
TS	EXIST. TRAFFIC SIGNALBOX	
$\overset{\blacksquare}{\phi}$	EXIST. RIGHT-OF-WAY MARKER EXIST. POWER OR TELEPHONE POLE	
	EXIST. CATCH BASIN	
Ч ХСUТ	CROSS CUT IN CONC.	
	EXIST. BOUNDARY LINE	
RCP	REINFORCED CONCRETE PIPE	
CMP INV.	CORRUGATED METAL PIPE INVERT ELEVATION	
CONC.	CONCRETE	
S/W 70.81	SIDEWALK	
× 1 <sup>330.81</sup>	EXIST. SPOT ELEVATION	
FND	FOUND	
	OVERHEAD ELECTRIC	
	EXIST. TREE OR SHRUB	
	EXIST. DITCH	
 O	- EXIST. CHAINLINK FENCE	
×—×—×—×—×—×—××		
O	EXIST. MAILBOX	
	EXIST. TELEPHONE PEDESTAL	
$\triangleright$	EXIST. ELECTRICAL TRANSFORMER	
AC	EXIST. AC UNIT	
0	EXIST. STEEL POLE	-x
<u>N</u>	EW FEATURES REQ'D FILTER FABRIC FENCE	
	- NLY U FILIER FADRIG FENGE	









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PLANT	SCHE	DULE								Ž	5350
	CODE	QTY	BOTANICAL / COMMON NAME	CONT	CAL	SIZE	POINTS	TOTAL		Š.	833-5 833-5 833-5
TREES		<u> </u>			<u></u>	<u> </u>				Ũ	(504) 8 (504) 8
	FA	4	Fraxinus velutina `Arizona` / Velvet Ash	Gallon or B&B	2.50" Cal, Single Trunk	10` - 12` Ht.	40	160		Z	
and the second s						-					PHON FA.
	IV	2	llex vomitoria / Yaupon Holly	Gallon or B&B	1" Cal. per Trunk 3 Trunk Min.	8` Min. Ht.	40	80		S S	ORS 0.11654
MAN AN MAN	ST	2	Sabal texana / Texas Palmetto	Gallon or B&B	5` C.T.	Matching	100	200		S, S, S	JURVEYORS phone: T.B.P.E. FIRM NO. 11654 FAX:
Rind W	01	L			0 0.11					EF ER	E FIRM
	CODE	QTY	BOTANICAL / COMMON NAME	CONT	SIZE					ΗĪ	<b>JUR</b> T.B.P.E
SHRUBS	ID	57	llex cornuta `Dwarf Burford` / Dwarf Burford Holly	7-Gal.	2` ht. at the time of planting		3	165			<u> </u>
have a start	JP	19	Juniperus chinensis `Parsonii` / Parsoni Juniper	3-Gal.	12"ht. 12"spd.		2	38			AN iite 200 70002
	CODE	QTY	BOTANICAL / COMMON NAME	CONT	REMARKS		SPACING	643 TOTAL POINTS		ZA	LS Suite na 70
GROUND C			BOTANICAL / COMMON NAME								EC creet, uisia
	SEED	4,422 sf	Cynodon dactylon / Bermuda Grass Seed	SF	Hydroseeding					EL	HLT sth St e, Lo
	SOD	12,350 sf	Cynodon dactylon / Bermuda Grass	Squares or Mini Rolls	Class `A`					E C E	CF 38 18 stairi
	MULCH	989 sf	Mulch Area / Gravel Mulch	Round Brown Gravel	4" Depth with Filter Fabric					Z 4	AR 3608 Meta
											Junius, Inc.
											Hunter &
										$\langle \bigtriangleup \rangle \rangle$	v Linfield.
				,							© 2019 t
			Landscape Calculations (S						Γ	SEAL	CAD
			Primary Street Yard: We 26,138 Square Feet	ber Rodd						State Dayse BA	CIT ROCK
			.02 Points per Square Fo	ot							
			522 Required Points						1	ALE OF	TETR
										accor.	55 <sup>50</sup>
			522 Total Required Point	s (50% Points S	hall Re Trees)				F	REV. NO.	DATE
			643 Provided Points (See		· · · · · · · · · · · · · · · · · · ·				-		
			Vehicle Use Areas (Scree	n)					-		
			Required:	,	Provideo	1:			-		
			Continuous 5' Avg. Width	Screen	Continue	ous 5' Avg.	Width Screen		L		
			Vehicle Use Areas (Parkin	g)							
			Required:	<u> </u>	Provideo	l:					
			35 Parking Spaces		8,474 S	quare Feet					
			20 Square Feet per Spac							<u> </u>	
			700 Square Feet Required	]						R R (,	$\geq$
			Buffer Yard							JNT JNT	N V V
			Required: Buffer Yard B - 5' Wide		Provided		Sereening Fore	a 10 Deinte		(WEBER RD.) S COUNTY), TX	
			Buller lara B — 5 Wide	;	0 001	20110 10000	Screening Fenc			43 ( ES	$\bigcirc$
				he manified in						РМ ЛЕС	ANTING
			Irrigation: Irrigation will	be provided vid	an automatea irrigati	on system.				'N ר	
										ER⊿ STI	
										GENERAL - FM 43 ( CHRISTI (NUECES	
										പ്ര പ	
									—	DOLLA CORPU	$\triangleleft$
								DEVELOPER: The overland group		DO	S S
								1906 EAST BATTLEFIELD SPRINGFIELD, MO 65804		•	AND E
								TEL: (417) 293–3332			
											S SHEET:

NICAL / COMMON NAME	CONT	CAL	SIZE	POINTS	TOTAL	IUS, INC.	(504) 833-5300 (504) 833-5350
us velutina `Arizona` / Velvet Ash	Gallon or B&B	2.50" Cal, Single Trunk	10` - 12` Ht.	40	160		PHONE: (50 FAX: (50
mitoria / Yaupon Holly	Gallon or B&B	1" Cal. per Trunk 3 Trunk Min.	8` Min. Ht.	40	80	لا ال	ORS PH( D. 11654
texana / Texas Palmetto	Gallon or B&B	5` C.T.	Matching	100	200	ERS,	ORVEYORS T.B.P.E. FIRM NO. 11654
NICAL / COMMON NAME	CONT	SIZE					SUR T.B.P.E. F
rnuta `Dwarf Burford` / Dwarf Burford Holly	7-Gal.	2` ht. at the time of planting		3	165	ENCE	$\square$
rus chinensis `Parsonii` / Parsoni Juniper	3-Gal.	12"ht. 12"spd.		2			Suite 200 Taylor 200
ANICAL / COMMON NAME	CONT	REMARKS		SPACING	643 TOTAL POINTS	D, SION,	'ECTS treet, Su vuisiana
on dactylon / Bermuda Grass Seed	SF	Hydroseeding				ESS	IIT) h Sti , Lou
on dactylon / Bermuda Grass	Squares or Mini Rolls	Class `A`					CT 18t
Area / Gravel Mulch	Round Brown Gravel	4" Depth with Filter Fabric					ARCH 3608 18 Metairi
Landscape Calculations (S Primary Street Yard: We 26,138 Square Feet .02 Points per Square Fo	eber Road					SEAL SEAL AND	A Degraphic Co
522 Required Points						ADE OI	TETR
						REV. NO.	DATE
522 Total Required Point 643 Provided Points (See		· · · · · · · · · · · · · · · · · · ·					
Vehicle Use Areas (Scree		,					
Required:	(i) (i)	Provided	۰.				
Continuous 5' Avg. Width	Screen			Width Screen			
Vehicle Use Areas (Parkin							
Required:	-97	Provided	1:				
35 Parking Spaces			Square Feet				
20 Square Feet per Spac	e.						
700 Square Feet Required	d					RD.) (), T)	
Buffer Yard							V V V
Required:		Provided					l îl
Buffer Yard B - 5' Wide	5			Screening Fen	ce-10 Points	(WEBER RE COUNTY),	
		an automated irrigati			<b>DEVELOPER:</b> THE OVERLAND GROUP 1906 EAST BATTLEFIELD SPRINGFIELD, MO 65804 TEL: (417) 293–3332	DOLLAR GENERAL - FM 43 ( CORPUS CHRISTI (NUECES	ANDSCAPE PLANTING
							S SHEET:

**DOLLAR GENERAL** 10,640 SQ. FT. 00000 STORE NUMBER: FM 43 (WEBER RD.) CORPUS CHRISTI

PROJ. NO. 24-065

 $\frown$ 

DATE 10/22/24

(NUECES COUNTY), TX

### SECTION 02900 - LANDSCAPING

### 1.1 GENERAL

A. Submittals: In addition to product certificates, submit the following where applicable:

1. Certification of grass seed/sod from seed/sod vendor for each seed mixture, or for sod. 2. List of plant suppliers and anticipated delivery dates.

- 3. Provide sample or product data of planting mix, top soil, fertilizers, pre-emergent and mulch or any other amendment required for project.
- B. Quality Assurance: Provide trees, shrubs, ground covers, and plants of quality, size, genus, species, and variety indicated, complying with applicable requirements of ANSI Z60.1 "American Standard for Nursery Stock." Materials that do not meet the afore mentioned requirements may be rejected.
- C. Special Warranty: Warrant trees, shrubs and ground covers for a period of one year after date of Substantial Completion, against defects including death and unsatisfactory growth, except for defects resulting from lack of adequate maintenance, neglect, or abuse by Owner, abnormal weather conditions unusual for warranty period, or incidents which are beyond Contractor's control.

1. Remove and replace any unhealthy and dead trees and shrubs within the warranty period.

D. Maintain and establish lawns by watering, fertilizing, weeding, mowing, trimming, replanting, and other operations to produce a uniformly smooth lawn for not less than the following:

1. Sodded Lawns: 30 days after date of Substantial Completion.

### 1.2 PRODUCTS

A. Trees and Shrubs: Well-shaped, fully branched, healthy, vigorous nursery-grown stock of sizes and grades indicated, free of disease, insects, eggs, larvae, and defects, conforming to ANSI Z60.1.

1. Provide balled and burlapped trees and shrubs (as per plan), or

- 2. Provide container grown trees and shrubs (as per plan)
- B. Ground Covers and Plants: Established and well rooted in removable containers or integral peat pots and with not less than the minimum number and length of runners required by ANSI Z60.1 for the pot size indicated.
- C. Sod: Certified turfgrass sod complying with ASPA specifications for machine-cut thickness, size, strength, moisture content, and mowed height, and free of weeds and undesirable native grasses. Provide viable sod of uniform density, color, and texture, strongly rooted, and capable of vigorous growth and development when planted.
  - 1. Species: Provide sod grass species and varieties, proportions by weight, and minimum percentages of purity, germination, and maximum percentage of weed seed as indicated per plans.
- D. Planting mix: ASTM D 5268, pH range of 5.5 to 7, 4 percent organic material minimum, free of stones 1 inch (25 mm) or larger in any dimension, and other extraneous materials harmful to plant growth.

1. Planting mix: Equal parts of sharp sand, peat moss and composted bark.

- E. Lime: ASTM C 602, Class T, agricultural limestone. Add 1,000 2,000 lbs/acre as required according to soil sample.
- F. Peat Humus: Finely divided or granular texture, with a pH range of 6 to 7.5, composed of partially decomposed moss peat (other than sphagnum), peat humus, or reed-sedge peat.
- G. Sawdust or Ground-Bark Humus: Decomposed, nitrogen-treated, of uniform texture, free of chips, stones, sticks, soil, or toxic materials.
- H. Bonemeal: Commercial, raw, finely ground; minimum of 4 percent nitrogen and 20 percent phosphoric acid. Regulate Ph as needed via soil sample.
- I. Superphosphate: Commercial, phosphate mixture, soluble; minimum of 20 percent available phosphoric acid. Regulate Ph as needed via soil sample.
- J. Lawn fertilizer: Once lawn is established, apply 1-1-1 commercial-grade guick release fertilizer. Apply according to manufacturer's recommendations.
- K. Planting bed fertilizer: Osmacote classic 13-13-13 8 to 9 month longevity or Siera Tabs at planting. Apply in accordance to manufacturer's specifications.
- L. Pre-Emergent Herbicide: FreeHand, Barricade G, Pendulum 2G, or Sanpshot. Apply according to manufacturer's recommendations for pre and post planting.
- M. Organic Mulch: Organic mulch, free from deleterious materials and suitable as a top dressing, consisting of ground or shredded bark, wood or bark chips, or pine straw, or shredded hardwood.
- N. Mineral Mulch: Hard, durable riverbed gravel or crushed stone, washed free of loam, sand, clay, and other foreign substances.

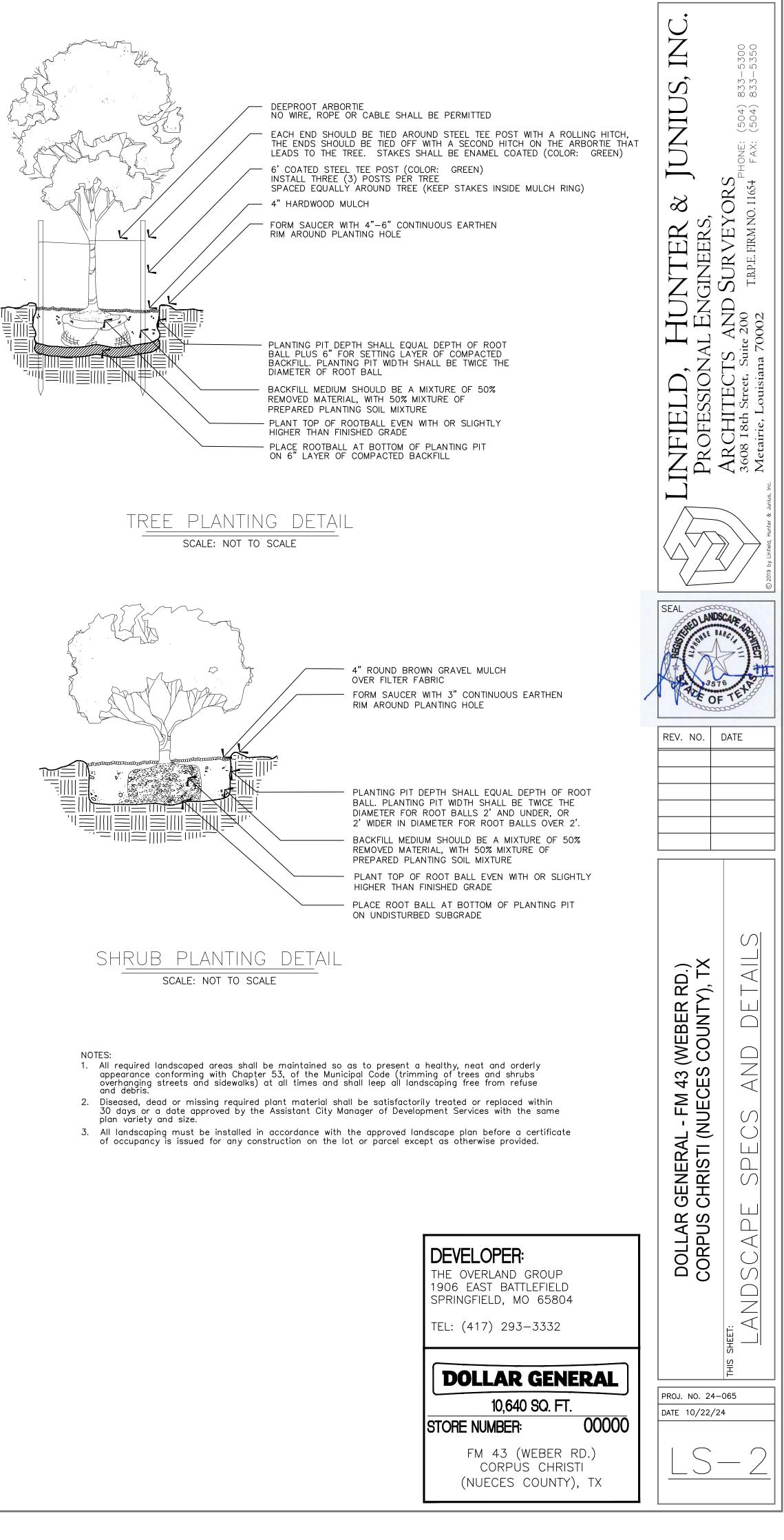
1. Size Range: 1-1/2 inches (38 mm) maximum, 3/4 inch (19 mm) minimum.

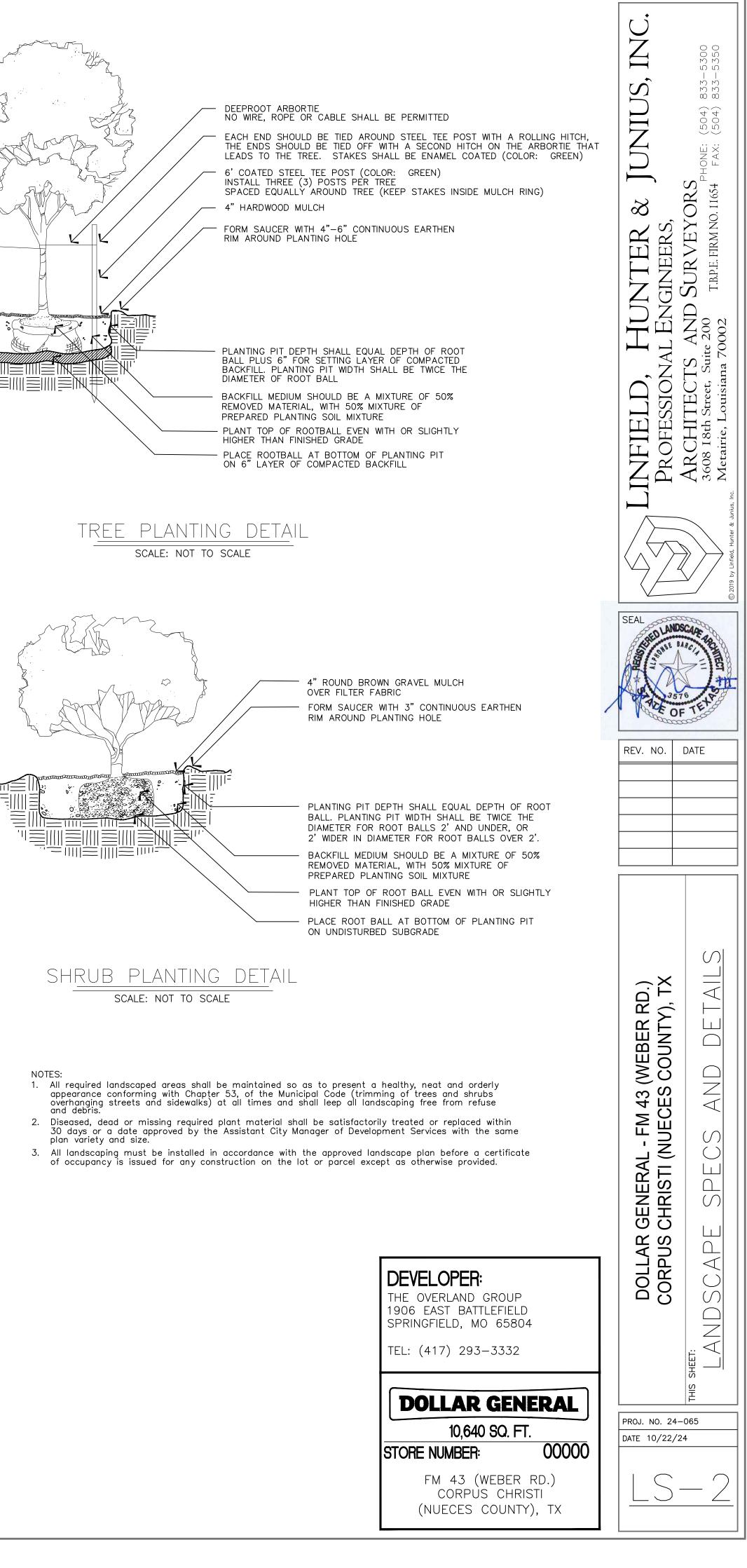
O. Steel Edging: ASTM A 569 (ASTM A 569M), standard painted comercial grade steel edging and accessories, fabricated in sections with loops stamped from or welded to face of sections approximately 30 inches (760 mm) apart to receive stakes. Cuts required to install edging to be sanded and painted to match factory finish.

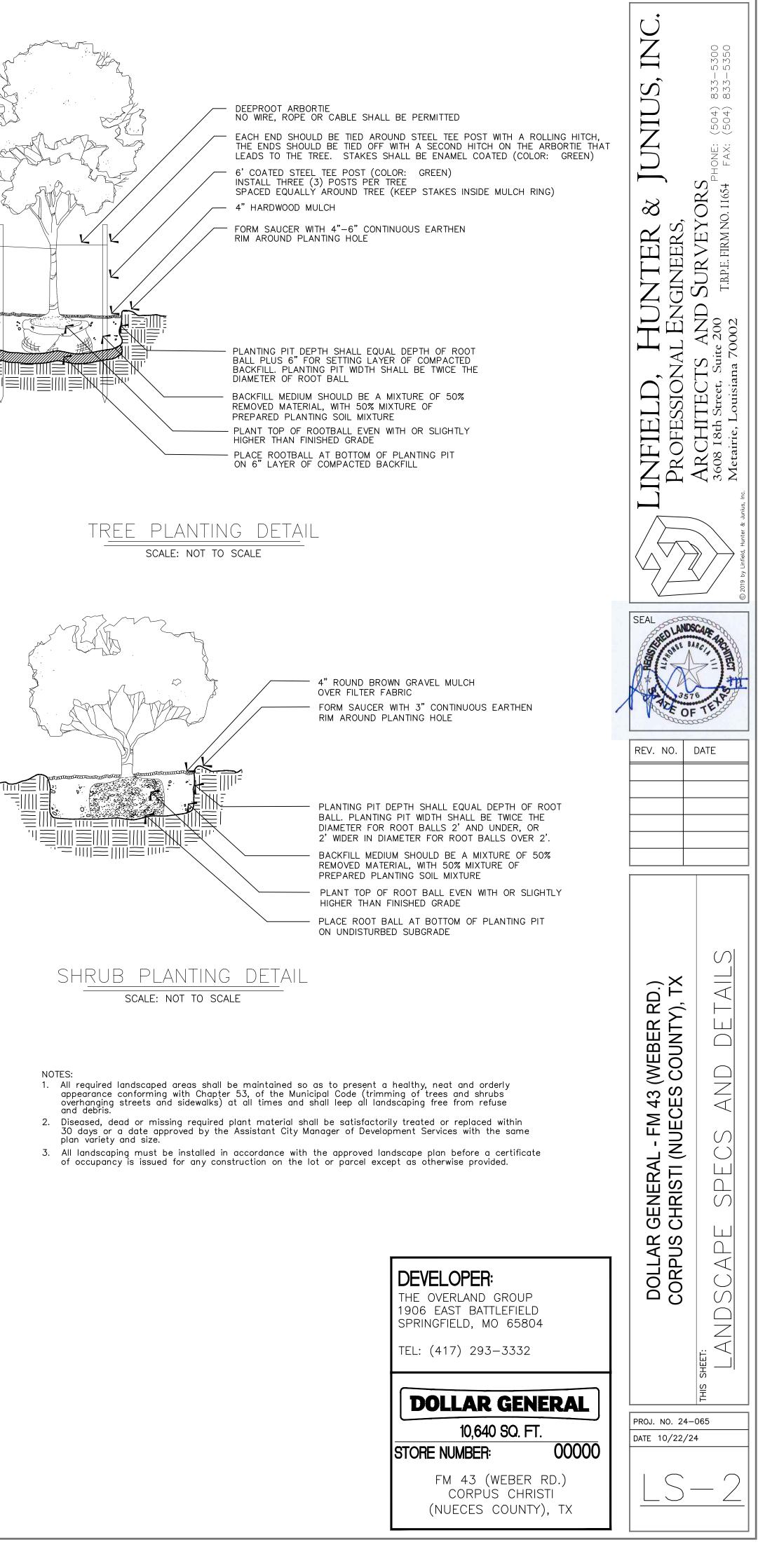
1. Edging Size: 3/16 inch (4.8 mm) wide by 4 inches (102 mm) deep.

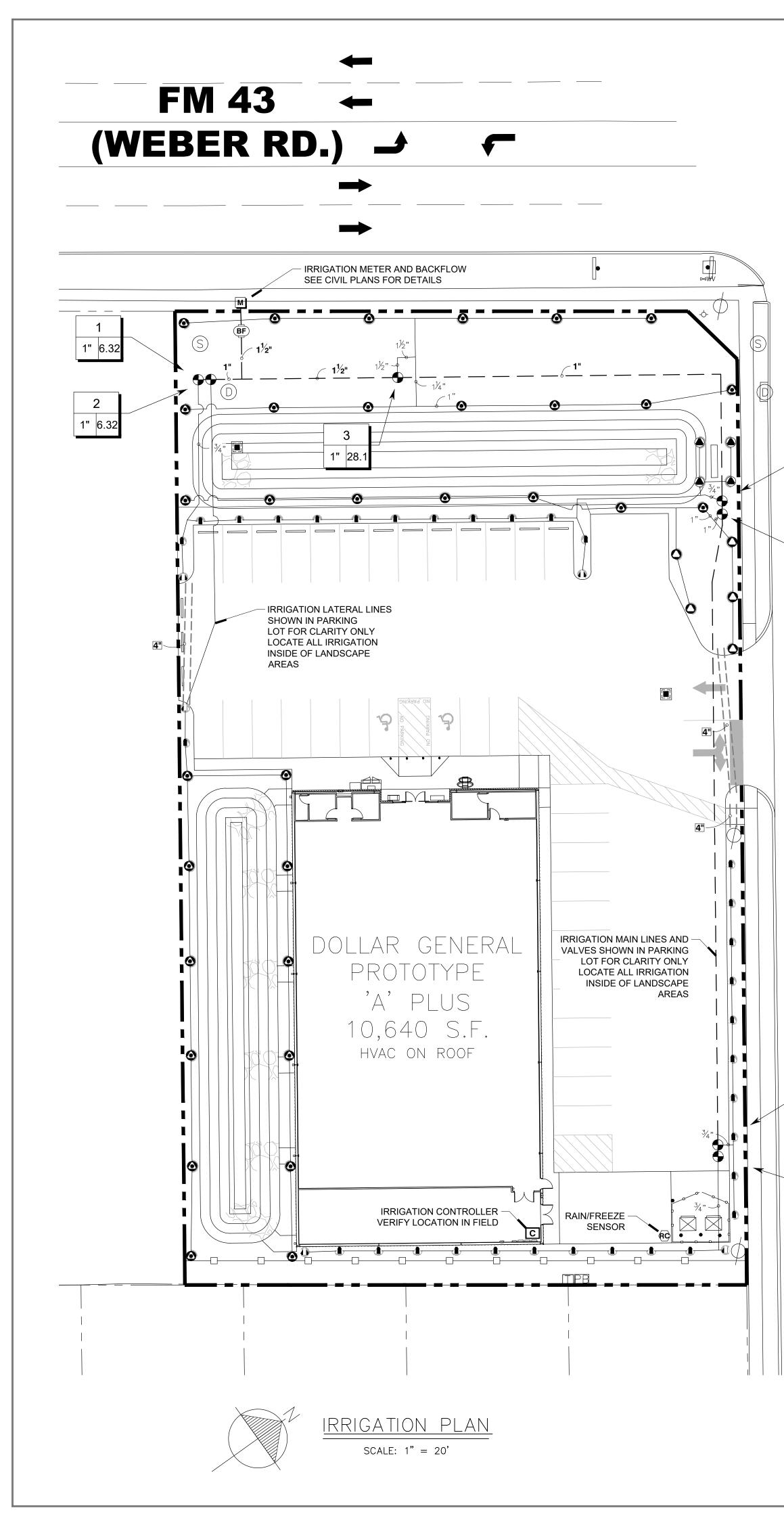
- 1.3 EXECUTION
- A. Planting Mix Preparation: Before mixing, clean topsoil of roots, plants, sods, stones, clay lumps, and other extraneous materials harmful to plant growth. Mix soil amendments and fertilizers with topsoil at rates indicated.
- Lawn Planting Preparation (Distrurbed): Loosen subgrade to a minimum depth of 6 inches (150 mm). Remove stones larger than 1-1/2 inches (38 mm) in any dimension and sticks, roots, rubbish, and other extraneous materials.
- 1. Incorporate topsoil soil mixture into existing soil to depth required to meet thickness, grades, and elevations shown, after light rolling and natural settlement. Do not spread if planting soil or subgrade is frozen.
- 2. Till surface soil to a depth of at least 6 inches (150 mm). Apply soil amendments and initial fertilizers and mix thoroughly into top 6 inches (150 mm) of soil. Trim high areas and fill in depressions. Till soil to a homogenous mixture of fine texture.
- C. Lawn Planting Preparation (Undisturbed): Where lawns are to be planted in areas unaltered or undisturbed by excavating, grading, or surface soil stripping operations, remove and dispose of existing grass, vegetation, and turf.
  - 1. Till surface soil to a depth of at least 6 inches (150 mm). Apply soil amendments and initial fertilizers and mix thoroughly into top 6 inches (150 mm) of soil. Trim high areas and fill in depressions. Till soil to a homogenous mixture of fine texture.
- D. Moisten prepared lawn areas before planting when soil is dry and allow surface to dry before planting.
- E. Ground Cover and Plant Bed Preparation: Loosen subgrade of planting bed areas to a minimum depth of 6 inches (150 mm). Remove stones larger than 1-1/2 inches (38 mm) in any dimension and sticks, roots, rubbish, and other extraneous materials.
  - 1. Spread planting soil mixture to depth required to meet thickness, grades, and elevations shown, after light rolling and natural settlement. Place approximately 1/2 the thickness of planting soil mixture required. Work into top of loosened subgrade to create a transition layer and then place remainder of planting soil mixture.
- F. Excavation for Trees and Shrubs: Excavate pits with vertical sides and with bottom of excavation slightly raised at center to assist drainage. Excavate approximately 1-1/2 times as wide as ball diameter and deep enough to allow placing of root ball on a setting layer of planting soil. Loosen hard subsoil in bottom of excavation.
- G. Planting Trees and Shrubs: Set stock plumb and in center of pit or trench with top of ball raised above adjacent finish grades.
  - 1. Place a setting layer of compacted planting soil.
  - 2. Cut burlap and wire baskets from tops of balls and pull partially from sides, but do not remove from under balls. Do not use planting stock if ball is cracked or broken before or during planting operation.
  - 3. Place backfill around ball in layers, tamping to settle backfill and eliminate voids and air pockets.
  - Dish and tamp top of backfill to form a 3-inch- (75-mm-) high mound around the rim of the pit. Do not cover top of root ball with backfill.
- H. Tree and Shrub Pruning: Prune, thin, and shape trees and shrubs according to standard horticultural practice. Prune trees to retain required height and spread. Do not cut tree leaders; remove only injured or dead branches from flowering trees. Prune shrubs to retain natural character. Shrub sizes indicated are size after pruning.
- I. Planting Ground Cover and Plants: Plant spacing according to plan, unless otherwise indicated. Dig holes large enough to allow spreading of roots, and backfill with planting soil. Work soil around roots to eliminate air pockets and leave a slight saucer indentation around plants to hold water. Water thoroughly after planting, taking care not to cover plant crowns with wet soil.
- J. Planting Bed Fertilizer: Install per manufactures recommendations.
- K. Pre-Emergent Herbicide: Install per manufactures recommendations.
- L. Mulching: Completely cover area to be mulched. Apply mulch and finish level with adjacent finish grades. Do not place mulch against trunks or stems.
- 1. Mulch Type and Thickness: Hardwood Mulch (Trees only), 4 inch depth Gravel Mulch (Bed areas) 4 inch depth
- M. Sodding Lawns: Lay sod to form a solid mass with tightly fitted joints within 24 hours of stripping. Butt ends and sides of sod; do not stretch or overlap. Stagger sod strips or pads to offset joints in adjacent courses. Avoid damage to subgrade or sod during installation. Tamp and roll lightly to ensure contact with subgrade, eliminate air pockets, and form a smooth surface. Work sifted soil or fine sand into minor cracks between pieces of sod; remove excess to avoid smothering sod and adjacent grass.
  - 1. Anchor sod on slopes exceeding 1:6 with wood pegs spaced as recommended by sod manufacturer.
  - 2. Saturate sod with fine water spray within 2 hours of planting. During first week, water daily or more frequently as necessary to maintain moist soil to a minimum depth of 1-1/2 inches (38 mm) below the sod.
- N. Edgings: Install edgings where indicated and anchor with stakes driven below top elevation of edging according to manufacturer's recommendations.
- 0. Disposal: Remove surplus soil and waste material, including excess subsoil, unsuitable soil, trash, and debris, and legally dispose of it off the Owner's property.

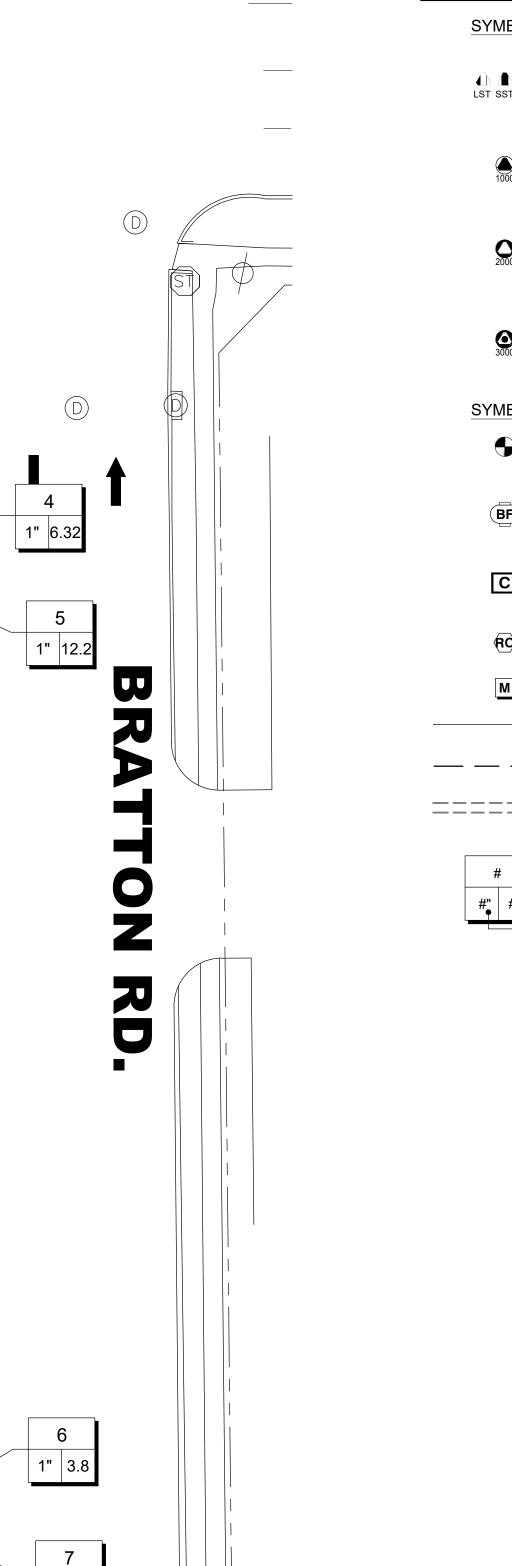
END OF SECTION 02900











1" 4.18

# **IRRIGATION SCHEDULE**

	SHEDGEE		
MBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY	PSI
SST RST	Hunter MP Strip PROS-06-PRS30-CV Turf Rotator, 6in. pop-up with factory installed check valve, pressure regulated to 30 psi, MP Rotator nozzle on PRS30 body. LST=Ivory left strip, SST=Brown side strip, RST=Copper right strip.	38	30
1000	Hunter MP1000 PROS-06-PRS30-CV Turf Rotator, 6in. pop-up with check valve, pressure regulated to 30 psi, MP Rotator nozzle on PRS30 body. M=Maroon adj arc 90 to 210, L=Light Blue 210 to 270 arc, O=Olive 360 arc.	4	30
2000	Hunter MP2000 PROS-06-PRS30-CV Turf Rotator, 6in. pop-up with factory installed check valve, pressure regulated to 30 psi, MP Rotator nozzle on PRS30 body. K=Black adj arc 90-210, G=Green adj arc 210-270, R=Red 360 arc.	5	30
<b>0</b>	Hunter MP3000 PROS-06-PRS30-CV Turf Rotator, 6in. pop-up with factory installed check valve, pressure regulated to 30 psi, MP Rotator nozzle on PRS30 body. B=Blue adj arc 90-210, Y=Yellow adj arc 210-270, A=Gray 360 arc.	32	30
MBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY	
•	Rain Bird DVF Standard configuration, electric remote control valve. Plastic residential in 1in With Flow Control.	7	
BF	Febco 765 1" Pressure Vacuum Breaker, brass with ball valve SOV. Install 12in. above highest downstream outlet and the highest point in the downstream piping.	1	
С	Rain Bird ESP4ME3 with (1) ESP-SM3 7 Station, Hybrid Modular Outdoor Controller. For Residential or Light Commercial Use. LNK WiFi Module and Flow Sensor Ready.	1	
RC	Rain Bird WR2-RFC Wireless Rain and Freeze Sensor Combo, includes 1 receiver and 1 rain/freeze sensor transmitter.	1	
М	Water Meter 1"	1	
	Irrigation Lateral Line: PVC Class 200 SDR 21	1,626 l.f.	
	Irrigation Mainline: PVC Class 200 SDR 21	425.7 l.f.	
	Pipe Sleeve: PVC Schedule 40	44.3 l.f.	
<b>_</b> V	'alve Callout		
# •	Valve Number		
#•	Valve Flow		
	——— Valve Size		

# VALVE SCHEDULE

NUMBER	MODEL	SIZE	TYPE	<u>GPM</u>	WIRE	PSI	PSI @ POC	PRECIP
1	Rain Bird DVF	1"	Turf Rotary	6.32	464.5	36.0	39.8	0.52 in/h
2	Rain Bird DVF	1"	Turf Rotary	6.32	460.6	35.8	39.6	0.52 in/h
3	Rain Bird DVF	1"	Turf Rotary	28.14	403.1	38.1	48.9	0.28 in/h
4	Rain Bird DVF	1"	Turf Rotary	6.32	264.5	35.2	39.8	0.52 in/h
5	Rain Bird DVF	1"	Turf Rotary	12.22	260.5	37.0	45.0	0.23 in/h
6	Rain Bird DVF	1"	Turf Rotary	3.8	66.0	33.9	38.2	0.69 in/h
7	Rain Bird DVF Common Wire	1"	Turf Rotary	4.18	66.0 425.7	34.5	39.0	0.75 in/h

Generated:	2024-10-22 13:13
P.O.C. NUMBER: 01 Water Source Information:	
FLOW AVAILABLE	
Water Meter Size:	1"
Flow Available	37.5 GPM
PRESSURE AVAILABLE	
Static Pressure at POC:	55 PSI
Elevation Change:	5.00 ft
Service Line Size:	3"
Length of Service Line:	20 ft
Pressure Available:	53 PSI
DESIGN ANALYSIS	
Maximum Station Flow:	28.14 GPM
Flow Available at POC:	37.5 GPM
Residual Flow Available:	9.36 GPM
Design Pressure:	30 PSI
Friction Loss:	1.8 PSI
Fittings Loss:	0.18 PSI
Elevation Loss:	0 PSI
Loss through Valve:	6.16 PSI
Pressure Req. at Critical Station:	38.1 PSI
Loss for Fittings:	0.11 PSI
Loss for Main Line:	1.11 PSI
Loss for POC to Valve Elevation:	0 PSI
Loss for Backflow:	4.79 PSI
Loss for Water Meter:	4.7 PSI
Critical Station Pressure at POC:	48.9 PSI
Pressure Available:	53 PSI

Residual Pressure Available:

4.15 PSI

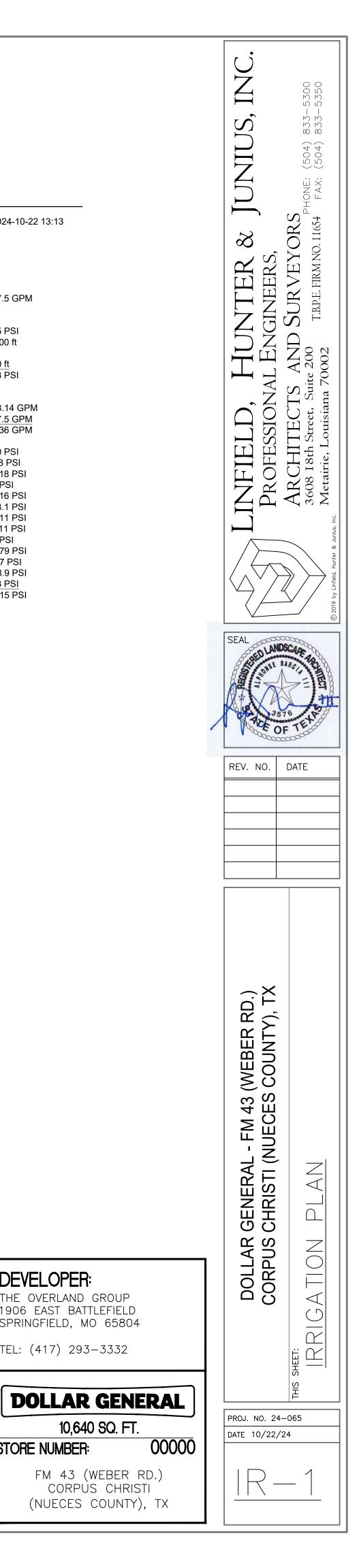
DEVELOPER:

STORE NUMBER:

THE OVERLAND GROUP 1906 EAST BATTLEFIELD SPRINGFIELD, MO 65804

TEL: (417) 293-3332

10,640 SQ. FT.



SECTION 02810- LANDSCAPE IRRIGATION

- 1.0 GENERAL
- 1.1 DESCRIPTION OF WORK:
- A. Furnish all labor, materials, equipment and services necessary for the complete installation of a landscape irrigation system to provide 100% coverage of the landscape areas identified on the plans as specified. The work includes, but is not limited to:
- 1. Trenching, backfill and compaction for irrigation lines. 2. Automatically controlled landscape irrigation system: Backflow prevention; water tap; water meter; pressure regulator; drain valves and isolation gate valves; piping and sleeves under paving and sidewalks, repair of paving, main and lateral lines; electrical valves and wiring, valve boxes and controllers; sprinklers, couplings, connectors and fittings.
- 3. Test all systems and make operative.
- Submit Record Drawings. 5. One-year Guarantee Period.
- 1.2 QUALITY CONTROL:
- A. Installer Qualifications: Firms experienced in the successful installation of a minimum of five projects within the past five years similar in scope, quality, and contract value to that indicated for this project. Firm shall have sufficient manpower, equipment and financial resources to complete the Work of the Section.
- B. The Owner and the Landscape Architect reserve the right to reject any and all materials and workmanship which they deem to be not in accordance with the Specifications. Rejected materials and work shall be removed from site immediately and replaced with that of the specified quality.
- C. Applicable Standards: ASTM
- D2241-Poly (Vinyl Chloride) (PVC) Plastic Pipe, SDR/PR, Class 200 and 160.
- D1785-Poly (Vinyl Chloride) (PVC) Plastic Pipe, Schedule 40. D2464-Poly (Vinyl Chloride) (PVC) Plastic Pipe Fittings, Threaded, Schedule 40. D2466-Poly (Vinyl Chloride) (PVC) Plastic Pipe Fittings, Socket Type, Schedule 40.
- D2564-Solvent Cements for Poly (Vinyl Chloride) (PVC) Plastic Pipe and Fittings. D. Applicable Codes:
- Most current edition of Uniform Plumbing Code.
- Applicable Building Code. All applicable local codes and ordinances.
- National Electrical Code.
- Should Specification's requirements differ from local requirements, consider Contract Document requirements to be minimum acceptable and comply with any more stringent local requirements.
- E. Permits and Fees:
- 1. Obtain all permits and pay required fees to any agency having jurisdiction over the work. Arrange inspections required by local ordinances during the course of construction.
- Upon completion of the work, furnish satisfactory evidence to show that all work has been installed in accordance with the ordinances and code requirements. F. Testing:
- 1. Perform testing and inspections required by specifications and by regulating authorities
- 2. Give 24 hours notice that such tests are to be conducted.
- 1.3 SUBMITTALS:
- A. Product Data: Include pressure rating, rated capacity, settings, and electrical data of selected models for the following: 1. Valves. Include above ground and underground; general-duty, manual and automatic control, and quick-coupler types.
  - Valve boxes.
  - Sprinklers. Specialties. Include emitters, drip tubes, and other devices.
- Controllers. Include wiring diagrams.
- B. Record Drawings: 1. Prepare and submit a reproducible Record Drawing showing the complete layout of the main line pipe, controller location, valve locations, and all sprinkler head locations. Record Drawings shall also indicate and show all materials, and manufacturer's name and catalog number and name.
- 1.5 SITE INSPECTION
- A. Become familiar with all site conditions.
- B. Locate all existing utilities prior to start of construction. Make necessary adjustments in the layout as may be required, 1) to connect to existing stubouts (should such stubs not be located exactly as shown) or 2) to work around existing work. Such adjustments shall be make with no increase in cost to the Owner.
- 1.6 PROTECTION OF EXISTING CONDITIONS:

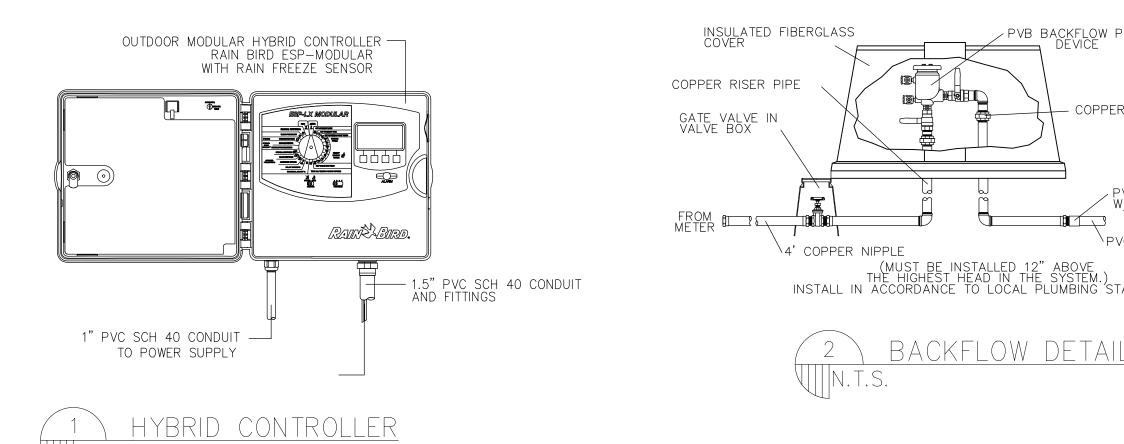
N.T.S.

- A. Take necessary precautions to protect site conditions to remain.
- B. Should damage be incurred, repair the work to its original condition at no additional cost to the Owner.
- 2.0 PRODUCTS
- 2.1 PIPE AND FITTINGS:
- A. Pipe sizes shall conform to those shown on the drawings. No substitutions of smaller pipe sizes will be permitted, but substitutions of larger size may be approved. All pipe damaged or rejected because of defects shall be removed or the site at the time of said rejection.
- B. All Piping three inch (3") and larger will be equipped with gaskets.C. All fittings for pipes three inches (3") or larger will be equipped with gaskets. D. All piping downstream of electric valves, sizes (3) inches and smaller, shall be rigid unplasticized PVC-Class 200 PSI working pressure extruded from virgin parent material of the type specified on the drawings. The pipe shall be homogenous throughout and free from visible cracks, holes, foreign materials, blisters, wrinkles and permanently marked with the manufacturer's name, material size, and schedule type. Pipe must bear the NFS seal.

- hereinafter specified.
- 2.2 SLEEVES:

- existing conditions.
- 2.3 CONTROL SYSTEM:
- freeze or rain.
- electrical panel installation.
- 2.4 CONTROL WIRE:
- larger solid core twisted wire.
- 2.5 IRRIGATION VALVES: A. Zone Control Valves
  - adjustment in each valve.
- 2.6 VALVE BOXES:
- Manufacturer- Ametek or approved equal. foundation and drainage.
- 2.7 THRUST BLOCKS:
- diameter and larger.

- 3.0 EXECUTION
- 3.1 EXCAVATION AND BACKFILL: to its original density.
- 3.2 INSTALLATION OF PLASTIC PIPE: A. Plastic pipe shall be installed in a manner that permits expansion and contraction as recommended by the manufacturer.
- instructed by the pipe manufacturer. The Contractor shall assume full responsibility
- for the correct installation.



E. All mainline piping and underground piping under continuous pressure shall be rigid unplasticized PVC-Class 200 PSI working pressure extruded from virgin parent material of the type specified on the drawings. The pipe shall be homogenous throughout and free from visible cracks, holes, and foreign materials, blisters, wrinkles and dents. F. All plastic fittings to be installed shall be molded fittings manufactured of the same material as the pipe and shall be suitable for solvent weld, slip joint ring tight seal, or screwed connections NO fitting made of other material shall be used except as

G. Slip fitting socket tapers shall be so sized that a dry unsoftened pipe end conforming to these special provisions can be inserted no more than halfway into the socket. Plastic saddle and flange fittings will not be permitted. Only schedule 80 pipe may be threaded.

A. All sleeves shall be Schedule 40 PVC or stronger. All sleeves are required at every crossing indicated on drawings. (Size Noted) B. All sleeves shall be installed under proposed pavement areas prior to subgrade and base.

C. Sleeves shall have a minimum horizontal separation of 18" and a maximum of twentyfour (24) inch clearance below bottom of curb. D. The location of all sleeves shown on the plans is schematic. The contractor shall make any adjustments necessary to accommodate existing vegetation, utilities, or other

E. If the road crossings are designated as being bore locations the bore must be ample size to accommodate the size sleeve specified.

A. The automatic controller shall be made by the same manufacturer as valves. B. Install a wireless weather station device to override the control timer in the event of C. 120-volt power shall be supplied by the Owner or General Contractor as part of the

A. Control wire shall be type UF, UL approved, for direct burial and shall be gauge 14 or B. Joining of underground wires shall be made with watertight connectors in valve boxes. No splicing between boxes is acceptable. Only use 3M DBR/Y-6 waterproof connectors. C. All wire connections in valve boxes.

Globe-type diaphragm valves of normally closed design, with PVC bodies and covers. Operation accomplished by means of an integrally mounted heavy-duty 24 volt AC solenoid complying with National Electrical Code, Class II Circuit, solenoid coil potted in epoxy resin within a plastic-coated stainless steel housing: Solenoids shall be completely waterproof, suitable for direct underground burial. Provide a flow stem

A. All valves shall be installed in thermoplastic valve access boxes of the size required to permit access to the valve. Valve boxes shall include black thermoplastic locking covers. B. All valve boxes shall be installed on at least a two (2) cubic foot gravel base to provide C. All value box elevations shall be 1/2" below finished grade.

A. Place one cubic ft. of concrete for each inch of pipe diameter for thrust block. Thrust shall not allow vertical or horizontal movement of pipe in any direction unless otherwise noted on design. Thrust blocking shall be provided on all piping three (3) inch

2.8 SURGE PROTECTION: Contractor to provide electrical surge protection for the system controller.

2.9 BACKFLOW PREVENTION: As determined by Municipality/Local regulations.

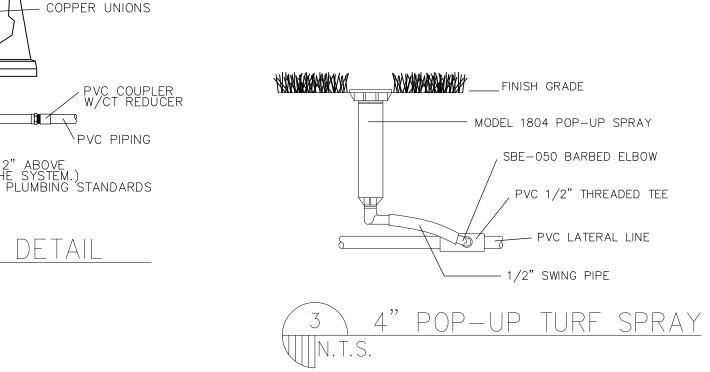
2.10 PRESSURE REGULATOR: As determined by Contractor.

A. Trenches for pipe sprinkler lines shall be excavated of sufficient depth and width to permit proper handling and installation by any other method the Contractor may desire if approved by the Owner, pipe manufacturer, and Designer. The backfill shall be thoroughly compacted and evened off with the adjacent soil level. Selected fill dirt or sand shall be used if soil conditions are rocky. In rocky areas the trenching depth shall be two (2) inches below normal trenching depth to allow for this bedding. The fill dirt or sand shall be used in filling (4) inches above the pipe. The remainder of the backfill shall contain no lumps or rocks larger than three (3) inches. The top twelve (12) inches of backfill shall be topsoil, free of rocks, subsoil, or trash. Any open trenches or partially backfilled trenches left overnight or left unsupervised shall be barricaded to prevent undue hazard to the public space. The Contractor shall backfill in six (6) inch compacted lifts as needed to bring the soil

B. Plastic pipe shall be cut with a handsaw or hacksaw with the assistance of a square in sawing vice or in a manner so as to ensure a square cut. Burrs at cut ends shall be removed prior to installation so that a smooth unobstructed flow will be obtained. C. All plastic-to-plastic joints shall be solvent weld joints or slip seal joints. Only the solvent recommended for the pipe and fittings shall be installed as outlined and

D. The joints shall be allowed to set at least twenty-four (24) hours before pressure is applied to the system on PVC pipe.

> PVB BACKFLOW PREVENTION
\_\_\_\_\_ DEVICE



3.3 CONTROLLER AND ELECTRICAL CONNECTIONS:

- A. All electrical connections shall conform to the National Electrical Code, latest edition. B. Control wires installed beneath walks, drives, or other permanent surfaces shall be placed in sleeves.
- C. Wires shall be spliced only at valve boxes. D. Leave twenty-four (24) inch loop of wire at each valve for expansion/contraction and
- servicina.
- equal) F. 120 VAC electrical power supply to the controller location shall be supplied by others.

3.4 FLUSHING AND TESTING:

- A. After all new sprinkler piping and risers are in place and connected for a given section and all necessary division work has been completed and prior to the installation of sprinkler heads all control valves shall be opened and a full head of water used to flush out the system.
- B. Sprinkler main shall be tested under normal water pressure for a period of twelve (12) hours. If leaks occur, repair and repeat the test. Give Landscape Architect fortyeight hours notice prior to testing.
- in good working order before final payment by the Owner.
- the guarantee period will be made by the Owner. E. After completion, testing, and acceptance of the system, the Contractor will instruct the
- 4.1 SUBSTANTIAL COMPLETION:
- A. Submit request for inspection for Substantial completion to the Landscape Architect at least forty-eight hours prior to anticipated date of inspection and testing (refer to Paragraph 3.3 TESTING, herein).
- B. Submit Record Drawings and Maintenance Manual to the Landscape Architect with request for inspection (refer to Paragraph 3.4 FLUSHING AND TESTING, herein).
- Completion.
- E. The date of Substantial Completion will constitute the beginning date of the One-Year

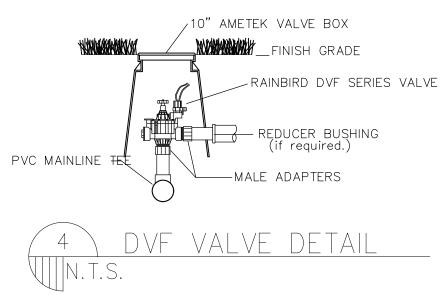
Guarantee. 4.2 GUARANTEE:

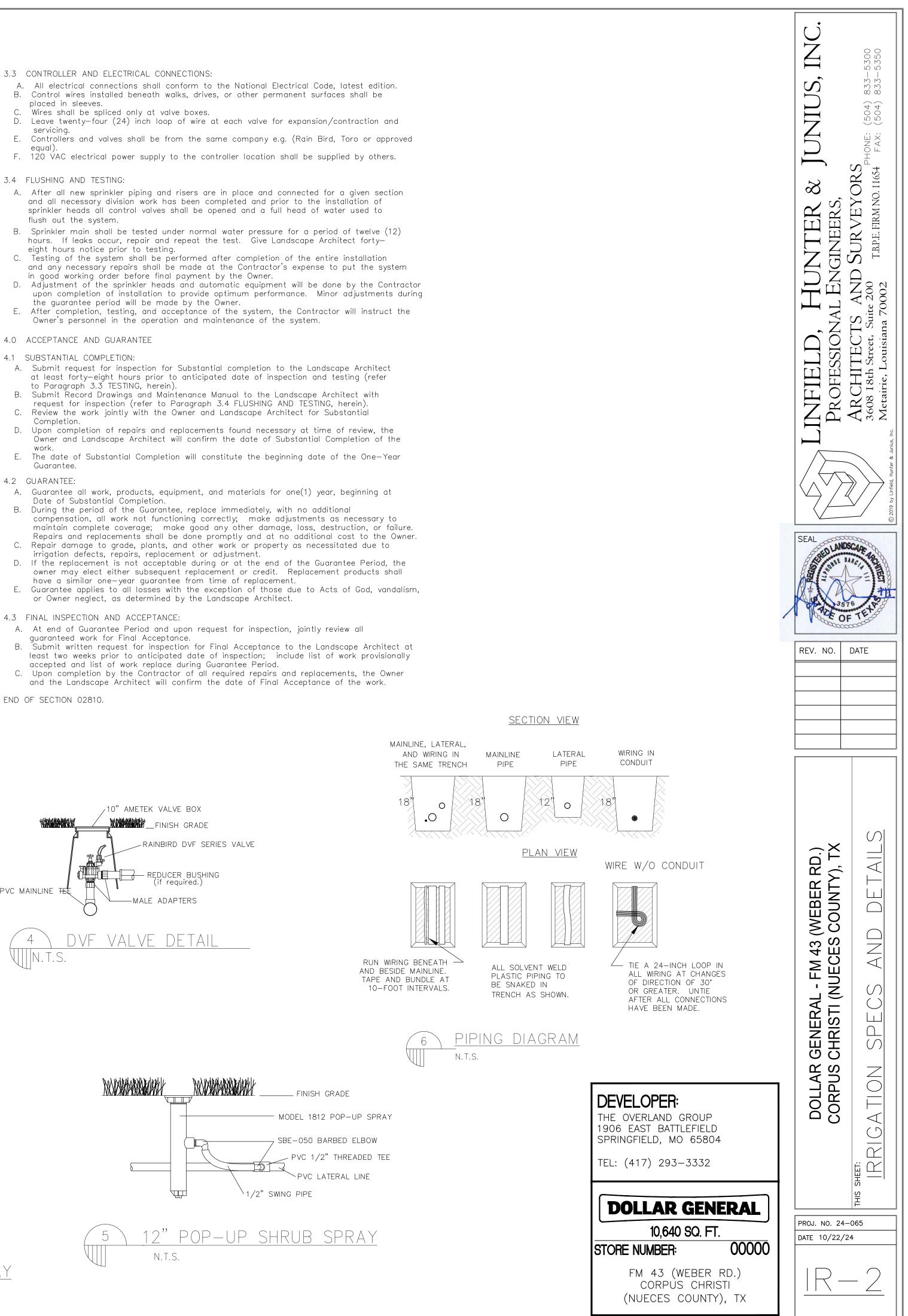
- A. Guarantee all work, products, equipment, and materials for one(1) year, beginning at Date of Substantial Completion.
- B. During the period of the Guarantee, replace immediately, with no additional C. Repair damage to grade, plants, and other work or property as necessitated due to
- irrigation defects, repairs, replacement or adjustment. D. If the replacement is not acceptable during or at the end of the Guarantee Period, the
- have a similar one-year guarantee from time of replacement. or Owner neglect, as determined by the Landscape Architect.

4.3 FINAL INSPECTION AND ACCEPTANCE:

- A. At end of Guarantee Period and upon request for inspection, jointly review all guaranteed work for Final Acceptance.
- accepted and list of work replace during Guarantee Period. C. Upon completion by the Contractor of all required repairs and replacements, the Owner and the Landscape Architect will confirm the date of Final Acceptance of the work.

END OF SECTION 02810.





SITE DESCRIPTION	
ROJECT LIMITS: GEO ID: 2608-0013-0030 SOUTH CORNER OF FM 43 (WEBER	SOIL
RD. & BRATTON RD., CORPUS CHRISTI, TX PART OF LOT 3, BLOCK 13 OF FOXWOOD ESTATES, PHASE 3 – 1.188 AC.	
PROJECT IS LOCATED INSIDE OF CITY OF CORPUS CHRISTI LIMITS	
ROJECT DESCRIPTION: CONSTRUCTION OF A NEW 10,640 S.F. DOLLAR GENERAL STORE	
ON THE SOUTH CORNER OF FM 43 (WEBER RD.) & BRATTON RD. IN CORPUS CHRISTI, TX. CONSTRUCTION TO INCLUDE DETENTION POND, CONCRETE PARKING PARKING LOT,	
COMMERCIAL DRIVEWAY OFF OF BRATTON RD., STORM WATER DRAIN LINES, TIE- IN NEW 1" PVC TIE-IN INTO EXIST. 8" WATER LINE	
<u>TIE-IN NEW 4" SEWER LINE INTO NEW SANITARY SEWER MANHOLE INSTALLED ON EXIS</u> T. 8" SEWER MAIN LOCATED WITHIN THE PROJECT SITE NEAR THE WEST PROPERTY LINE	
	STR
AJOR SOIL DISTURBING ACTIVITIES: <u>INSTALLATION OF EROSION AND SEDIMENT CONTROLS:</u> CLEARING, GRUBBING, AND EXCAVATION OF THE EXISTING SOIL & VEGETATIVE GROUND	
COVER FOR NEW BUILDING FOUNDATION AND NEW PAVEMENT SUBGRADES WILL BE PERFORMED. UTILITY TRENCHES WILL BE EXCAVATED FOR INSTALLATION OF UTILITIES	
& STORM DRAINAGE.	
TAL PROJECT AREA: 1.118 ACRES	
TAL AREA TO BE DISTURBED: 1.118 ACRES	
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EROSION	AND	SEDIMENT	CONTROLS

# STABILIZATION PRACTICES:

- TEMPORARY SEEDING
- PERMANENT PLANTING, SODDING, OR SEEDING MULCHING
- SOIL RETENTION BLANKET
- BUFFER ZONES
- PRESERVATION OF NATURAL RESOURCES

## CTURAL PRACTICES:

Х	SILT FENCES
	HAY BALES
	ROCK BERMS
	DIVERSION, INTERCEPTOR, OR PERIMETER DIKES
Х	DIVERSION, INTERCEPTOR, OR PERIMETER SWALES
	DIVERSION DIKE AND SWALE COMBINATIONS
	PIPE SLOPE DRAINS
<u> </u>	PAVED FLUMES
Х	ROCK BEDDING AT CONSTRUCTION EXIT
	TIMBER MATTING AT CONSTRUCTION EXIT
	CHANNEL LINERS
	SEDIMENT TRAPS
	SEDIMENT BASINS
	STORM INLET SEDIMENT TRAP
V	
<u> </u>	STONE OUTLET STRUCTURES
<u> </u>	CURBS AND GUTTERS
Х	STORM SEWERS
	VELOCITY CONTROL DEVICES
	EROSION CONTROL LOGS

R: RIP-RAP PLACED IN THE DETENTION POND WHERE THE DRAINAGE PIPE FROM BUILDING DOWNSPOUTS OUTFALLS INTO THE DETENTION POND.

### VE - SEQUENCE OF CONSTRUCTION (STORM WATER MANAGEMENT) ACTIVITIES:

E FIRST PHASE OF THE PROJECT WILL BE THE INSTALLATION OF EROSION EVENTION AND SEDIMENT CONTROLS. THESE EROSION PREVENTION AND SEDIMENT NTROLS WILL BE IN PLACE AND FUNCTIONAL BEFORE EARTH MOVING OPERATIONS BEGIN. STATE TPDES PERMITS SHALL BE OBTAINED BEFORE ANY LAND IS DISTURBED. E ALL EXISTING FEATURES HAVE BEEN DEMOLISHED AND REMOVED, CLEARING, JBBING, & EXCAVATION OF THE EXISTING SOIL & VEGETATIVE GROUND COVER FOR BUILDING FOUNDATION AND NEW PAVEMENT SUBGRADES WILL BE PERFORMED. -CONSTRUCTION VEGETATIVE GROUND COVER SHALL NOT BE DESTROYED, REMOVED DISTURBED MORE THAN 15 DAYS PRIOR TO GRADING OR EARTH MOVING UNLESS AREA IS SEEDED AND/OR MULCHED.

T, THE BUILDING FOUNDATION WILL BE FORMED UP/CONSTRUCTED AND ALL UTILITY NCHES WILL BE EXCAVATED FOR PLACEMENT OF NEW UTILITY LINES (TELEPHONE NNAGE, ELECTRIC, WATER AND SEWER) AND DRAIN INLETS WILL BE INSTALLED. BUILDING STRUCTURE AND ALL OF THE ARCHITECTURAL ELEMENTS WILL N BE CONSTRUCTED. ONCE ALL UTILITIES AND STRUCTURES ARE IN PLACE, THE NEW NCRETE PAVEMENT WILL BE POURED FOR THE SITE. FINALLY, SITE LANDSCAPING \_ BE PLANTED ONCE ALL PAVEMENT HAS BEEN POURED. ANY MODIFICATION OF STORM WATER POLLUTION PREVENTION PLAN FOR CONSTRUCTION SEQUENCING LL REQUIRE ADHERENCE TO THE TCEQ'S TPDES GENERAL PERMIT GUIDELINES.

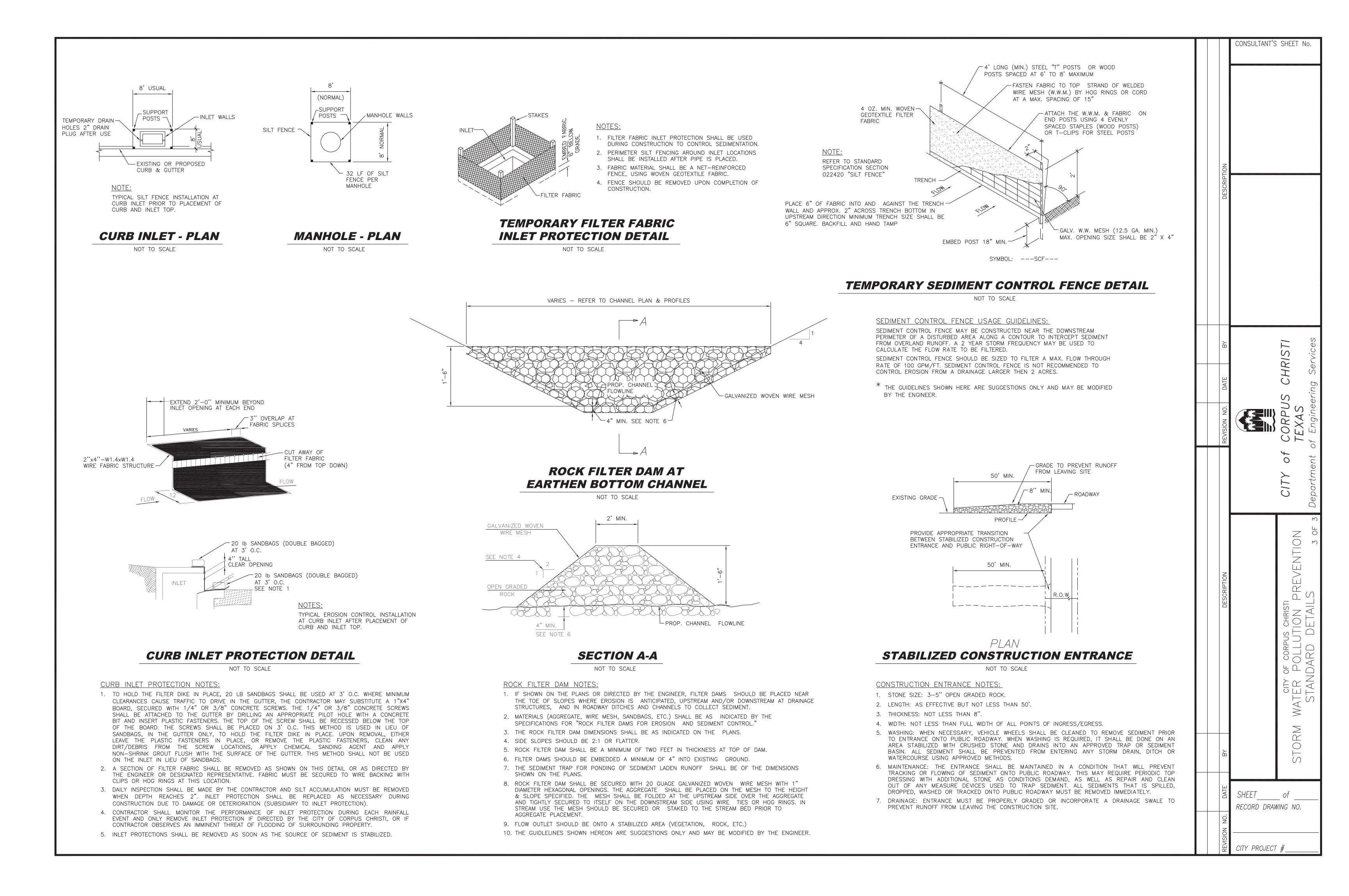
NATER MANAGEMENT: THE USAGE OF A ±6,609 CUBIC FOOT DETENTION POND & A 0,375 CUBIC FOOT DETENTION POND TO DETAIN POST DEVELOPED RUNOFF. THE DETENTION PONDS AND 8" RESTRICTOR ORIFICE AS DESIGNED ARE SUFFICIENT TO VENT THE TOTAL POST-DEVELOPED PEAK FLOWS FROM EXCEEDING THE PRE-ELOPED PEAK RUNOFF RATE FOR THE 5 YEAR, 10 YEAR, 25 YEAR, AND 100 YEAR GN STORM FREQUENCIES.

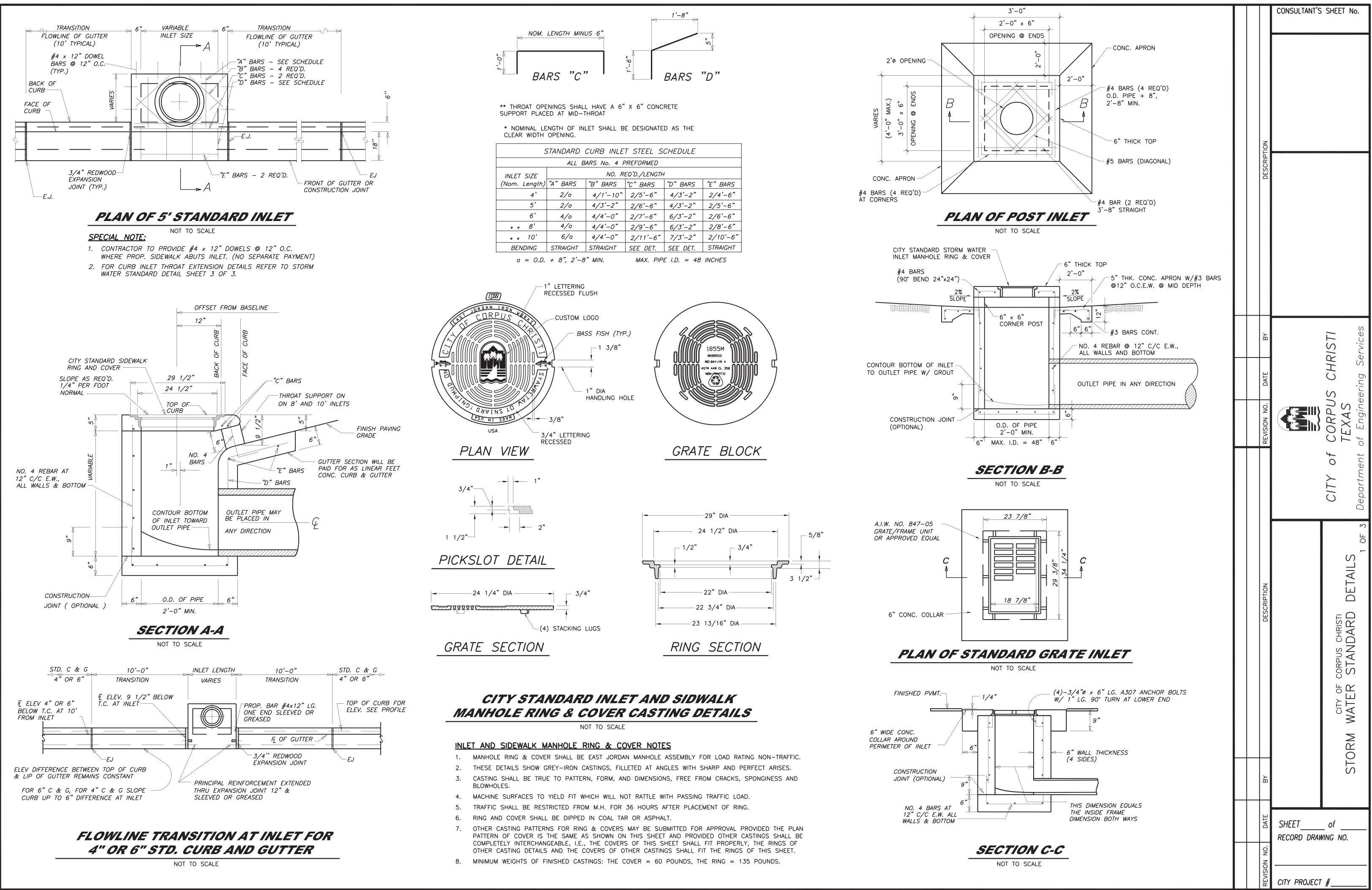
ENT CONTROLS		CONSULTANT'S SHEET No.	
OTHER EROSION AND SEDIMENT CONTROLS:			
MAINTENANCE: ANY DAMAGE TO STRUCTURAL PRACTICES INCLUDING SILT FENCES, DIVERSION, INTERCEPTOR OR PERIMETER SWALES, ROCK BEDDING AT CONSTRUCTION EXIT.			
STONE OUTLET STRUCTURES SHALL BE REPAIRED AS SOON AS POSSIBLE.			
INSPECTION: VISUAL INSPECTION OF THE DETENTION BASIN & EROSION AND SEDIMENT	PTION		
<u>STRUCTURAL PRACTICES TO OCCUR WEEKLY WITH ON-GOING CONSTRUCTION.</u> QUALIFIED PERSONNEL SHALL INSPECT DISTURBED AREAS OF THE CONSTRUCTION SITE THAT HAVE NOT BEEN FINALLY STABILIZED, AREAS USED FOR STORAGE OF MATERIALS THAT ARE	DESCRIPTION		
EXPOSED TO PRECIPITATION, STRUCTURAL CONTROL MEASURES, LOCATIONS WHERE VEHICLES ENTER OR EXIT THE SITE, AND EACH OUTFALL.			
WASTE MATERIALS: <u>All construction waste &amp; trash generated by the contractor &amp;</u> HIS SUBCONTRACTORS SHALL BE COLLECTED & STORED IN A SECURELY LIDDED METAL DUMPSTER APPROVED BY THE CITY OF CORPUS CHRISTI, PLACED AWAY FROM STORMWATER			
CONVEYANCES & DRAINS, & MEETING ALL LOCAL & STATE SOLID WASTE MANAGEMENT REGULATIONS. ALL WASTE/DEBRIS SHALL BE CLEANED UP AFTER EACH SPECIFIC JOB HAS COMPLETED & AT THE END OF EACH WORK WEEK, WHICHEVER COMES FIRST. NO			
CONSTRUCTION WASTE MATERIALS SHALL BE BURIED ON ANY PROPERTY.			
HAZARDOUS WASTE (INCLUDING SPILL REPORTING): <u>All Hazardous Waste Materials</u> Such as oil filters, petroleum products, paint & equipment maintenance fluids	BY		S O S
SHALL BE STORED IN STRUCTURALLY SOUND & SEALED SHIPPING CONTAINERS, WITHIN THE HAZARDOUS MATERIALS STORAGE AREA. HAZARDOUS WASTE MATERIALS SHALL BE STORED IN APPROPRIATE & CLEARLY MARKED CONTAINERS & SEGREGATED FROM OTHER		HRIST	Services
NON-WASTE MATERIALS.	DATE	()	rıng
SANITARY WASTE: <u>TEMPORARY SANITARY FACILITIES (PORTABLE TOILETS) SHALL BE PROVIDE</u> D	°. NO.		gineering
AT THE SITE IN THE COMBINED STAGING AREA. THE TOILETS SHALL BE PLACED AWAY FROM CONCENTRATED FLOW PATHS & TRAFFIC FLOW & SHALL HAVE COLLECTION PANS UNDERNEATH AS SECONDARY CONTAINMENT. ALL SANITARY WASTE SHALL BE COLLECTED FROM THE	REVISION		ot En
PORTABLE TOILETS A MINIMUM OF THREE TIMES PER WEEK. THE TOILETS SHALL BE INSPECTED WEEKLY FOR EVIDENCE OF LEAKING HOLDING TANKS. TOILETS WITH LEAKING HOLDING TANKS SHALL BE REMOVED FROM THE SITE & REPLACED W/NEW PORTABLE TOILETS.		f f	t
OFFSITE VEHICLE TRACKING:			Departmen
$\underline{\times}$ HAUL ROADS DAMPENED FOR DUST CONTROL $\underline{\times}$ LOADED HAUL TRUCKS TO BE COVERED WITH TARPAULIN $\underline{\times}$ EXCESS DIRT ON ROAD REMOVED DAILY			<b>3</b> Del
$\underline{\times}$ STABILIZED CONSTRUCTION ENTRANCE			1 OF ;
OTHER:			-
	DESCRIPTION	REVE	
REMARKS:	DESCI	CHRISTI	$\mathcal{C}$
		CORPUS N ND	
		CITY OF □ □ □	
PERMITS:		VATE	
CONTRACTOR SHALL UTILIZE THE STORM WATER POLLUTION PREVENTION PLAN AND SHALL OBTAIN ALL PERMITS AND FULFILL ALL PERMIT REQUIREMENTS, INCLUDING FEES, FOR T.C.E.Q. GENERAL PERMIT NO. TXR 150000 RELATING TO DISCHARGES		N N N N N N N N	
FROM CONSTRUCTION ACTIVITIES. THESE ACTIVITIES INCLUDE, BUT ARE NOT LIMITED TO NOTICE OF INTENT (NOI, REQUIRED SITE POSTINGS AND NOTICE OF TERMINATION (NOT). ALL ACTIVITIES WILL BE PERFORMED AT THE MILESTONES REQUIRED BY THE	BY	U L S L O L S	
T.C.E.Q. NO SEPARATE PAYMENT WILL BE MADE FOR SUCH PERMITS.			
	DATE	SHEET of RECORD DRAWING NO.	
	ON NO.		
	REVISION	CITY PROJECT #	

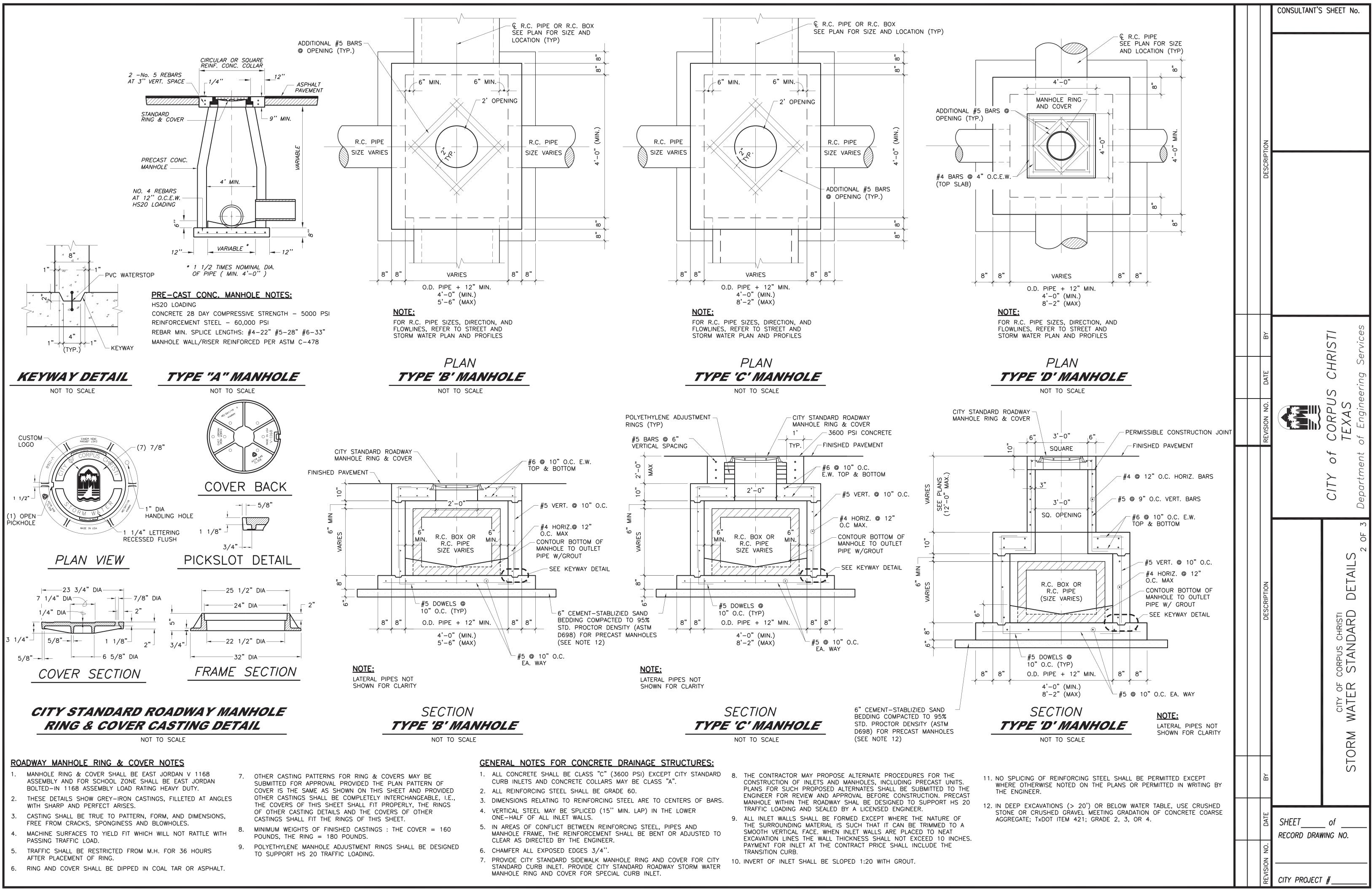
NT CONTROLS			CONSULTANT'S	SHEET No.
HER EROSION AND SEDIMENT CONTROLS: ntenance: Any damage to structural practices including silt fences,				
ERSION, INTERCEPTOR OR PERIMETER SWALES, ROCK BEDDING AT CONSTRUCTION EXIT, ONE OUTLET STRUCTURES SHALL BE REPAIRED AS SOON AS POSSIBLE.				
PECTION: VISUAL INSPECTION OF THE DETENTION BASIN & EROSION AND SEDIMENT RUCTURAL PRACTICES TO OCCUR WEEKLY WITH ON-GOING CONSTRUCTION. ALIFIED PERSONNEL SHALL INSPECT DISTURBED AREAS OF THE CONSTRUCTION SITE THAT /E NOT BEEN FINALLY STABILIZED, AREAS USED FOR STORAGE OF MATERIALS THAT ARE POSED TO PRECIPITATION, STRUCTURAL CONTROL MEASURES, LOCATIONS WHERE VEHICLES IER OR EXIT THE SITE, AND EACH OUTFALL.		DESCRIPTION		
STE MATERIALS: <u>ALL CONSTRUCTION WASTE &amp; TRASH GENERATED BY THE CONTRACTOR &amp;</u> S SUBCONTRACTORS SHALL BE COLLECTED & STORED IN A SECURELY LIDDED METAL MPSTER APPROVED BY THE CITY OF CORPUS CHRISTI, PLACED AWAY FROM STORMWATER NVEYANCES & DRAINS, & MEETING ALL LOCAL & STATE SOLID WASTE MANAGEMENT GULATIONS. ALL WASTE/DEBRIS SHALL BE CLEANED UP AFTER EACH SPECIFIC JOB HAS				
GULATIONS. ALL WASTE/DEBRIS SHALL BE CLEANED UP AFTER EACH SPECIFIC JOB HAS MPLETED & AT THE END OF EACH WORK WEEK, WHICHEVER COMES FIRST. NO NSTRUCTION WASTE MATERIALS SHALL BE BURIED ON ANY PROPERTY.				
ZARDOUS WASTE (INCLUDING SPILL REPORTING): <u>All Hazardous Waste Materials</u> CH as oil filters, petroleum products, paint & equipment maintenance fluids All be stored in structurally sound & sealed shipping containers, within		ž		<b>HRISTI</b> Services
E HAZARDOUS MATERIALS STORAGE AREA. HAZARDOUS WASTE MATERIALS SHALL BE DRED IN APPROPRIATE & CLEARLY MARKED CONTAINERS & SEGREGATED FROM OTHER N—WASTE MATERIALS.		DATE		g Cl
NITARY WASTE: TEMPORARY SANITARY FACILITIES (PORTABLE TOILETS) SHALL BE PROVIDED THE SITE IN THE COMBINED STAGING AREA. THE TOILETS SHALL BE PLACED AWAY FROM NCENTRATED FLOW PATHS & TRAFFIC FLOW & SHALL HAVE COLLECTION PANS UNDERNEAT SECONDARY CONTAINMENT. ALL SANITARY WASTE SHALL BE COLLECTED FROM THE	н			<b>CORPUS</b> <b>TEXAS</b> of Engineerin
RTABLE TOILETS A MINIMUM OF THREE TIMES PER WEEK. THE TOILETS SHALL BE PECTED WEEKLY FOR EVIDENCE OF LEAKING HOLDING TANKS. TOILETS WITH LEAKING LDING TANKS SHALL BE REMOVED FROM THE SITE & REPLACED W/NEW PORTABLE TOILET ISITE VEHICLE TRACKING:	S.			<b>CITY of</b> partment
X       HAUL ROADS DAMPENED FOR DUST CONTROL         X       LOADED HAUL TRUCKS TO BE COVERED WITH TARPAULIN         X       EXCESS DIRT ON ROAD REMOVED DAILY         X       STABILIZED CONSTRUCTION ENTRANCE				DN <b>CI</b> <b>1 OF 3</b> Depa
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ONTRACTOR SHALL UTILIZE THE STORM WATER POLLUTION PREVENTION PLAN ND SHALL OBTAIN ALL PERMITS AND FULFILL ALL PERMIT REQUIREMENTS, INCLUDING EES, FOR T.C.E.Q. GENERAL PERMIT NO. TXR 150000 RELATING TO DISCHARGES				law M
ROM CONSTRUCTION ACTIVITIES. THESE ACTIVITIES INCLUDE, BUT ARE NOT LIMITED O NOTICE OF INTENT (NOI, REQUIRED SITE POSTINGS AND NOTICE OF TERMINATION NOT). ALL ACTIVITIES WILL BE PERFORMED AT THE MILESTONES REQUIRED BY THE .C.E.Q. NO SEPARATE PAYMENT WILL BE MADE FOR SUCH PERMITS.		ž		STORM
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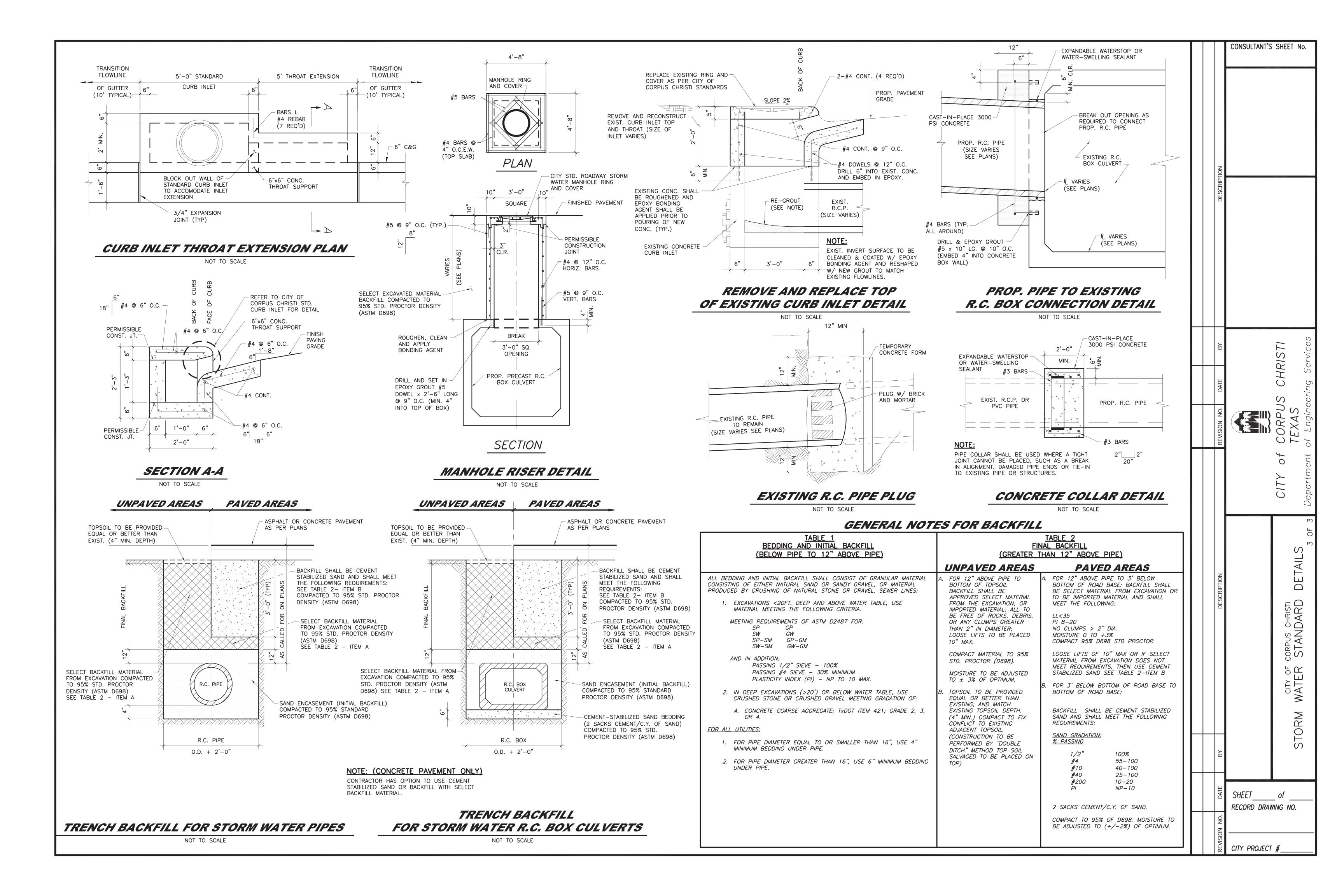
	- Clean Water Act Section 402	armit required for	III. <u>Cultural Resources</u>	VI. <u>Hazardous Materials or Contamination Issu</u>
	harge Permit or Construction General P bed soil. Projects with any disturbed s n.	•	In the event historical issues or archeological artifacts (bones, burnt rock, flint, pottery, etc.) are found during construction, cease work in the immediate area and contact the Engineer immediately.	General (applies to all projects): Comply with the Hazard Communication A materials by conducting safety meetings potential hazards in the workplace. Ensure
X No Action Required	Required Action		No Action Required Required Action	equipment appropiate for any hazardous r Obtain and keep on-site Material Safety I
Action No.			Action No.	project, which may include, but are not li asphalt products, chemical additives, fuels
1. Prevent stormwater pollution by c with TPDES Permit TXR 150000	ontrolling erosion and sedimentation in a	accordance	1.	protected storage, off bare ground and c product labelling as required by the Act.
2. Comply with the SW3P and revise the Engineer.	when necessary to control pollution or	required by	2.	Maintain an adequate supply of on-site s of a spill, take actions to mitigate the sp practices, and contact the District Spill C for the proper containment and cleanup of
	SN) with SW3P information on or near t	he site,	3.	Contact the Engineer if any of the follwin
accessible to the public and TCEC	•		4.	* Dead or distressed vegetation (no
4. When Contractor project specific acres or more, submit NOI to TC	locations (PSL's) increase disturbed soil EQ and the Engineer.	area to 5	5.	<ul> <li>Trash piles, drums, canister, barre</li> <li>Undesirable smells or odors</li> <li>Evidence of leaching or seepage of</li> </ul>
	erbodies and Wetlands Clean Wate	er Act Sections	IV. <u>Vegetation Resources</u>	• Any other evidence indicating possible haz
401 & 404 No Permit Required			Preserve native vegetation to the extent practical.	Hazardous Materials or Contamination
USACE Permit required for filling creeks, streams, wetlands or we	g, dredging, excavating or other w et areas.	vork in any water bodies, rivers,	No Action Required Required Action	
The Contractor must adhere to a	all of the terms and conditions ass	ociated with the following permit(s):	Action No.	$\overline{X}$ No Action Required
			1.	Action No.
	Required (less than 1/10th acre waters			1.
Nationwide Permit 14 - PCN Requestion Nationwide Permit 14 - PCN Requestion Nationwide 404 Permit Required	uired (1/10 to <1/2 acre, 1/3 in tidal wa	ters)	2.	2.
Other Nationwide Permit Required	: NWP+		3.	
Required Actions: List waters of	the US permit applies to, location i	n project and check	4.	3.
Best Management Practices planne	ed to control erosion, sedimentation	and post-project TSS.		4.
1.			V. Federal Listed, and Proposed Threatened and Endangered Species, Critical Habitat,	VII. Other Environmental Issues
2.			State Listed Species, Candidate Species and Migratory Birds.	(Include applicable regional or site specific
3.			No Action Required     □ Required Action	🗙 No Action Required
4.			Action No.	Action No.
			1.	1.
Best Management Practices	:		2.	2.
Erosion	Sedimentation	Post-Construction TSS	7	7
X Temporary Vegetation	X Silt Fence	Vegetative Filter Strips	3.	5.
Blankets/Matting	🗌 Rock Berm 🗍 Triangular Filter Dike	─ Retention/Irrigation Systems ─ Extended Detention Basin	4.	4.
∑ Sodding	Sand Bag Berm	Constructed Wetlands		
Interceptor Swale Diversion Dike	🗌 Straw Bale Dike 🥅 Brush Berms	☐ Wet Basin ☐ Erosion Control Compost		
Erosion Control Compost	Erosion Control Compost	Mulch Filter Berm and Socks	If any of the listed species are observed, cease work in the immediate area, do not disturb species or habitat and contact the Engineer immediately. The work may not remove active nests from bridges and	
Mulch Filter Berm and Socks	Mulch Filter Berm and Socks	Compost Filter Berm and Socks	other structures during nesting season of the birds associated with the nests. If caves or sinkholes are discovered, cease work in the immediated area, and contact the Engineer immediately.	
Compost Filter Berm and Socks	Compost Filter Berm and Socks	✓ Vegetation Lined Ditches ✓ Sand Filter Systems		
	Sediment Basins			

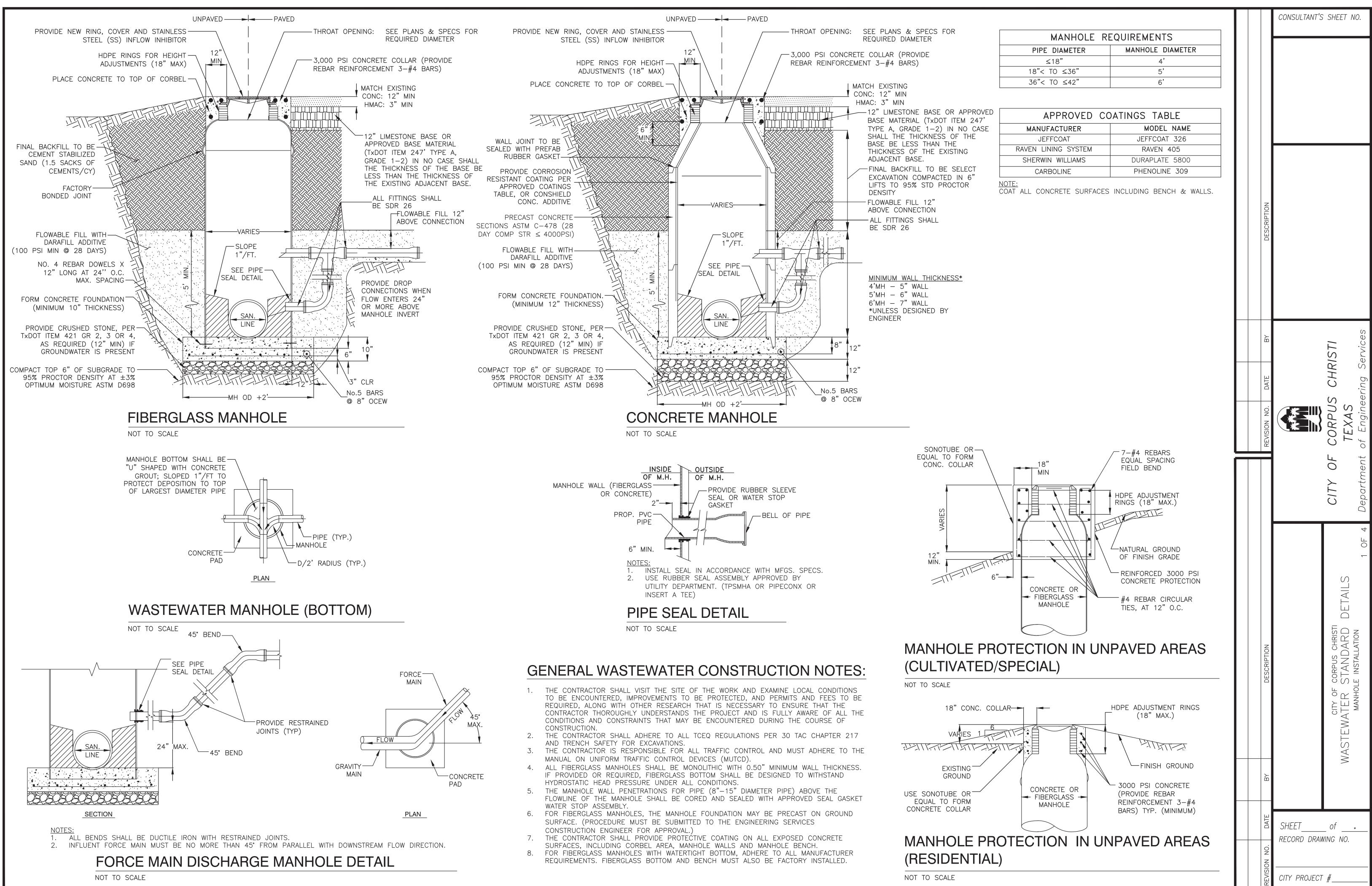
		CONSULTANT'S	S SHEET No.
sues			
Act (the Act) for personnel who will be working with hazardous prior to beginning construction and making workers aware of re that all workers are provided with personal protective materials used.			
Data Sheets, (MSDS) for all hazardous products used on the limited to the following categories: Paints, acids, solvents, Is and concrete curing compounds or additives. Provide covered, for products which may be hazardous. Maintain			
spill response materials, as indicated in the MSDS. In the event spill as indicated in the MSDS, in accordance with safe work Coordinator immediately. The Contractor shall be responsible of all product spills.	DESCRIPTION		
ing are detected:			
ot identified as normal) rels, etc.			
of substances			
azardous materials or contamination discoverd on site.			
tion Issues Specific to this Project:			
Required Action			<b>HRISTI</b> Services
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Required Action			
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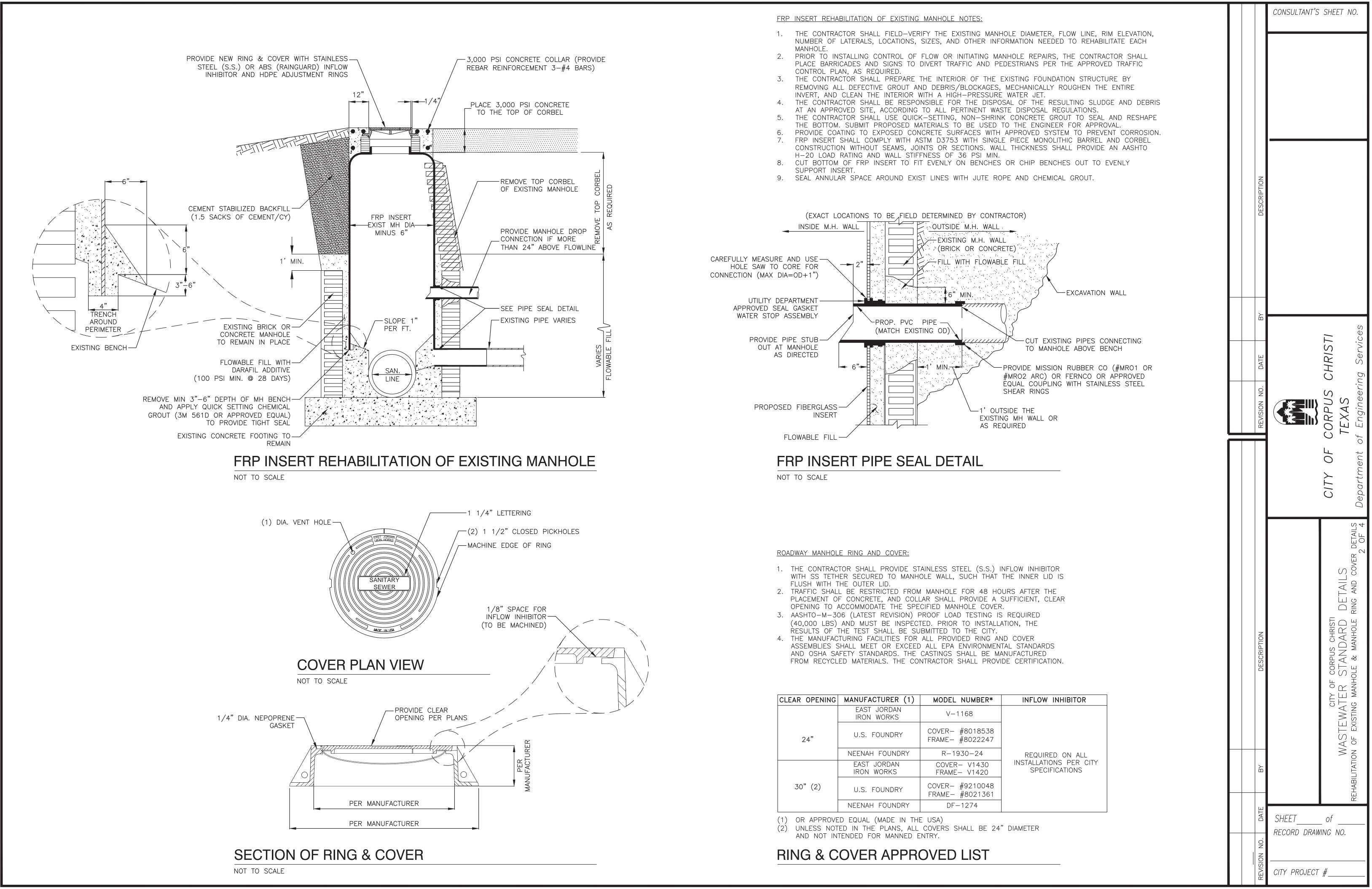


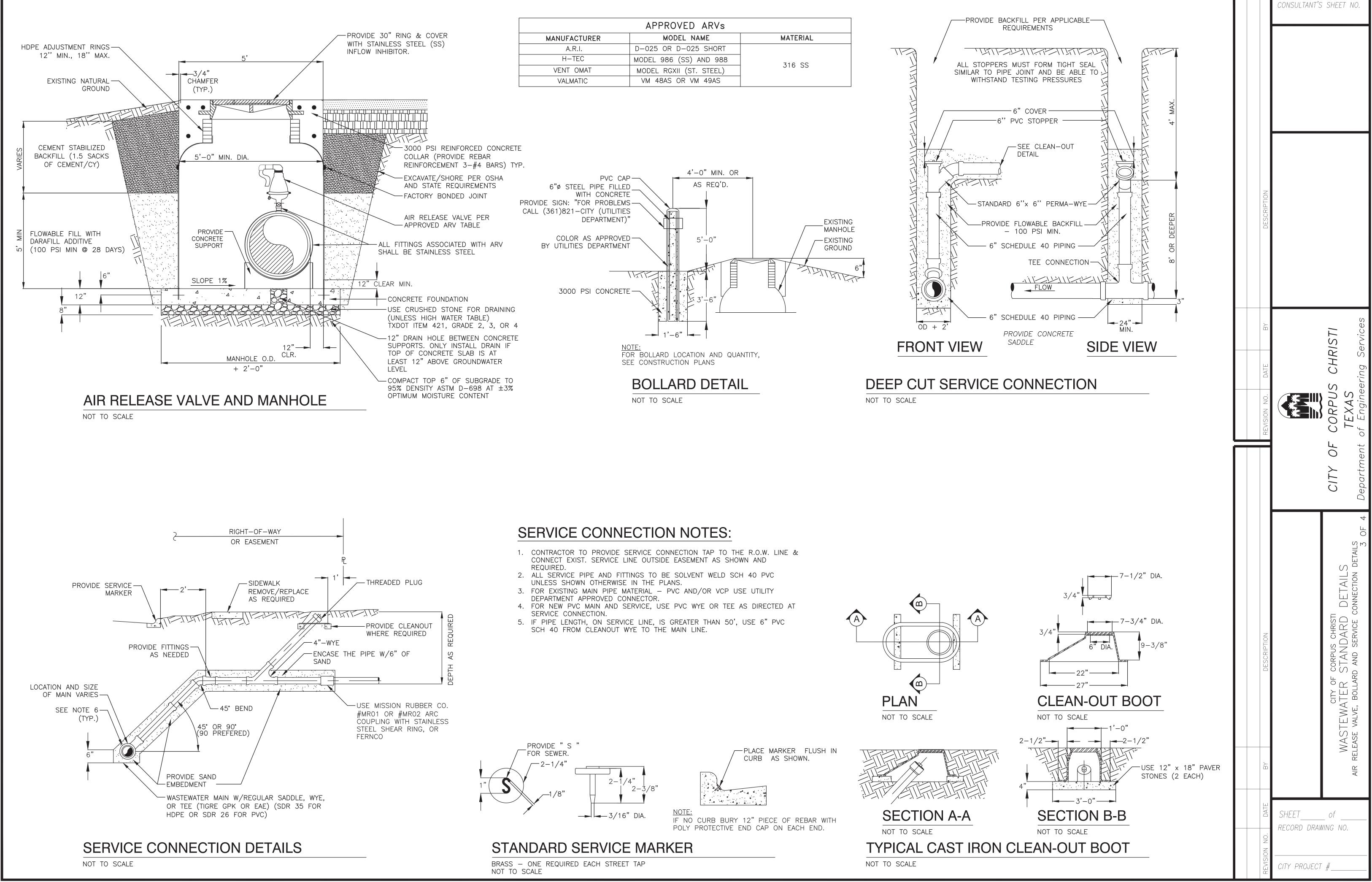


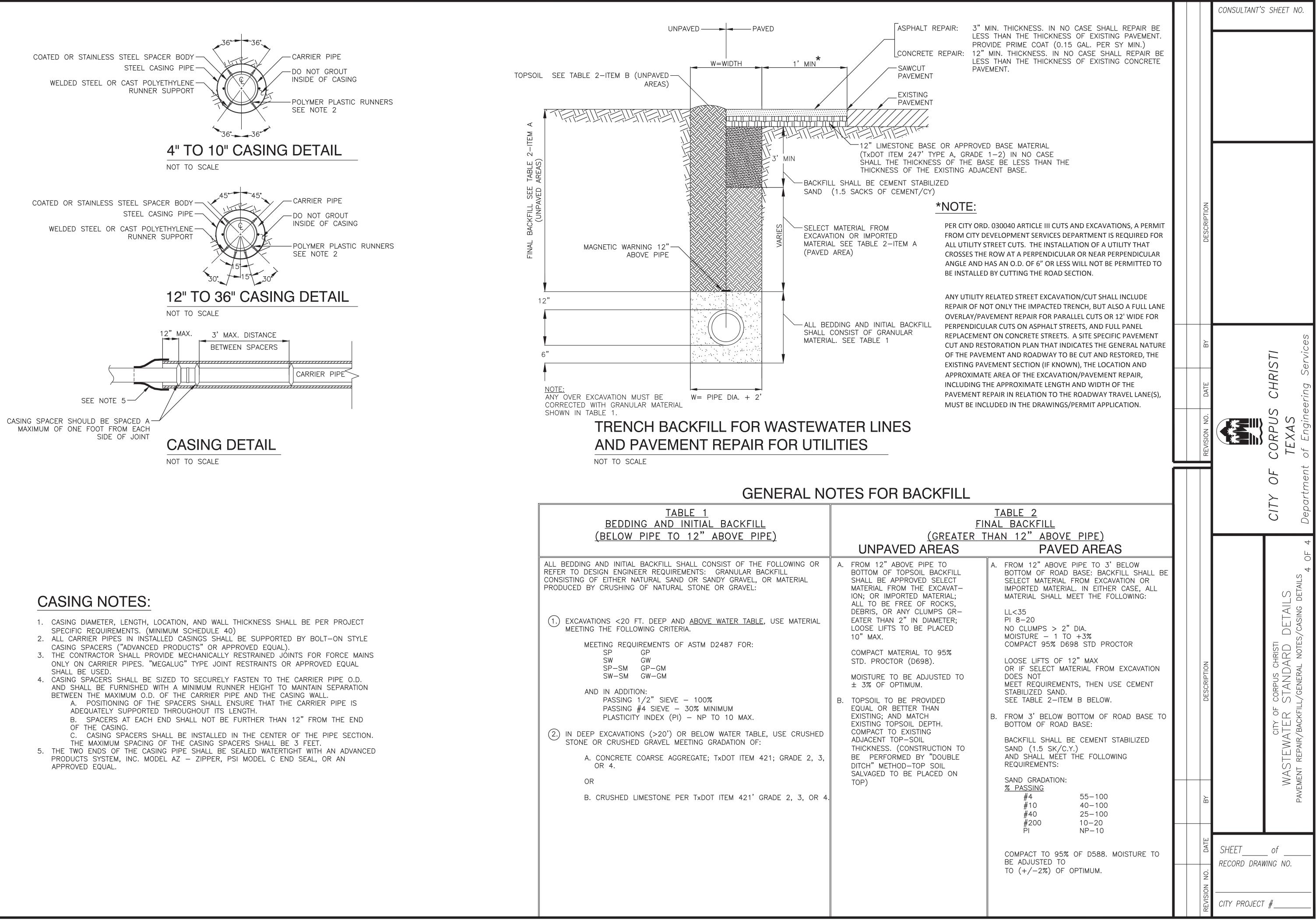










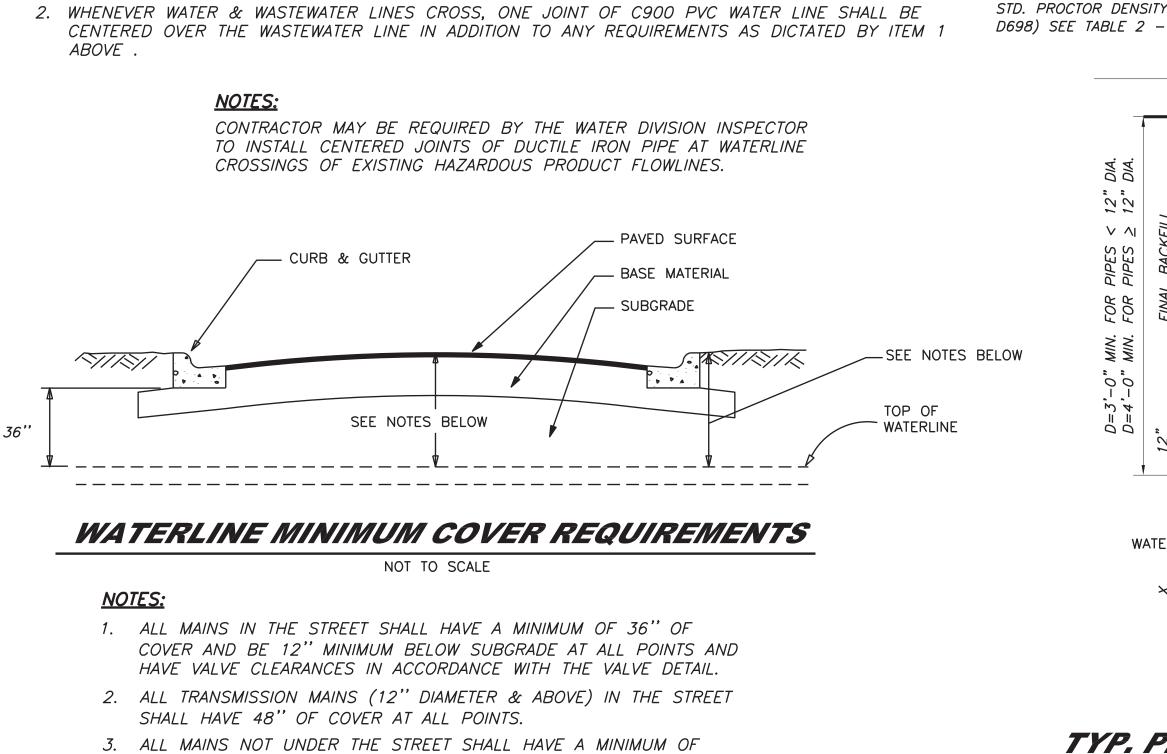


## WATER DISTRIBUTION SYSTEM GENERAL NOTES

- PROPOSED WATER DISTRUBUTION SYSTEM SHALL BE INSTALLED IN ACCORDANCE WITH CITY OF CORPUS CHRISTI WATER DIVISION DISTRIBUTION SYSTEM STANDARDS.
- 2. THE CITY RESERVES THE RIGHT TO ACCEPT THE SYSTEM FOR OPERATION AT ANY TIME, BUT THE DATE OF OFFICIAL ACCEPTANCE OF THE SYSTEM WILL BE UPON COMPLETION OF THE PROJECT AND SATISFACTORY TEST RESULTS.
- THE EXISTING SYSTEM SHALL REMAIN IN SERVICE UNTIL THE PROPOSED SYSTEM IS PUT INTO SERVICE. 3. THE CONTRACTOR SHALL PROTECT THE EXISTING SYSTEM UNTIL IT IS TAKEN OUT OF SERVICE.
- 4. THE CONTRACTOR SHALL FURNISH ALL MATERIAL, LABOR AND EQUIPMENT REQUIRED TO INSTALL THE PROPOSED SYSTEM.
- 5. TESTING OF LINES (STERILIZATION AND PRESSURED) SHALL BE DONE BY THE CONTRACTOR UNDER THE SUPERVISION OF THE WATER DIVISION. WATER FOR FILLING THE NEW WATER LINE AND PERFORMING TESTS WILL BE FURNISHED TO THE CONTRACTOR BY THE CITY OF CORPUS CHRISTI THROUGH A STANDARD WATER CONSTRUCTION METER CONNECTION. STANDARD WATER CONSTRUCTION METER AND GAUGE WILL BE SUPPLIED BY THE CITY AFTER THE CONTRACTOR HAS PAID ALL APPLICABLE FEES FOR THE WATER CONSTRUCTION METER. ALL WATER DISCHARGE MUST BE DECHLORINATED IN ACCORDANCE WITH TNRCC & NPDES REGULATIONS.
- 6. THE CONTRACTOR SHALL RECOVER AND STOCK-PILE AT A LOCATION DESIGNATED BY THE WATER DIVISION INSPECTOR. ALL FIRE HYDRANTS. VALVES. AND FITTINGS THAT ARE TAKEN OUT OF SERVICE . THESE MATERIALS MAY BE SALVAGED BY THE CITY . HOWEVER, ALL ITEMS NOT CLAIMED BY THE CITY PRIOR TO THE FINAL INSPECTION SHALL BE DISPOSED OF BY THE CONTRACTOR.
- THE CONTRACTOR SHALL BEAR ALL COST ASSOCIATED WITH WATERLINE REPAIRS (WHICH RESULT FROM 7. DAMAGE CAUSED BY THE CONTRACTOR) UPON COMPLETION OF PROJECTS. ALL WATER LINES SHALL BE FREE OF ALL PATCHES AND SPLICES.
- ALL PHYSICAL TIES OF THE PROPOSED SYSTEM INTO THE EXISTING WATERLINE SHALL BE RECONNECTED AND 8 BE MADE UNDER SUPERVISION OF THE WATER DIVISION INSPECTOR. THE CONTRACTOR SHALL FURNISH ALL MATERIALS AND ALL EQUIPMENT THAT IS REQUIRED TO MAKE TIE-INS. CITY WATER DIVISION CREWS WILL MAKE TAPS ON CITY MAINS ARRANGED THROUGH WATER DIVISION INSPECTOR (72 HOUR NOTIFICATION).
- 9. ALL EXISTING SERVICE CONNECTIONS TIED ONTO THE EXISTING WATERLINE SHALL BE RECONNECTED BY THE CONTRACTOR, INCLUDING RELOCATING EXISTING WATER METERS. IT SHALL BE THE CONTRACTOR'S SOLE RESPONSIBILITY TO NOTIFY AND COORDINATE WITH THE WATER DIVISION INSPECTOR SAID RECONNECTIONS / RELOCATIONS IN ADVANCE OF CONSTRUCTION TO AVOID DELAYS. (NO SEPARATE COSTS)
- 10. MINOR LENGTH OF DUCTILE IRON PIPE ADJACENT TO FITTINGS MAY BE REQUIRED AS DIRECTED BY THE WATER DIVISION INSPECTOR BASED ON CONDITIONS ENCOUNTERED IN THE FIELD. THE CONTRACTOR SHALL USE D.I.P. AS DIRECTED AND SHALL BE PAID AT THE UNIT PRICE BID FOR THE APPROPRIATE SIZE WATERLINE. A MINOR LENGTH IS DEFINED AS A SINGLE LOCATION REQUIRING THE USE OF TWO JOINTS OR LESS.
- 11. MINOR ADJUSTMENTS IN THE LOCATIONS OF FITTINGS, VALVES, FIRE HYDRANTS, ETC. CAN BE ANTICIPATED. THE CONTRACTOR SHALL MAKE SAID MINOR ADJUSTMENTS AS DIRECTED BY THE ENGINEER AND/OR WATER DIVISION INSPECTOR AT NO INCREASE OF CONTRACT PRICE. WATER DIVISION WILL BE NOTIFIED PRIOR TO ALL CHANGES.
- 12. ALL NIPPLES BETWEEN FITTINGS AND VALVES ALONG MAINS SHALL BE DUCTILE IRON.
- 13. ALL DUCTILE IRON PIPES, VALVES, AND FITTINGS SHALL BE WRAPPED WITH (2) THICKNESSES OF 8 MIL. POLYETHYLENE AND SHALL BE RESTRAINED WITH "MEGALUG", MECHANICAL JOINT RESTRAINT OR ENGINEER APPROVED EQUAL AT ALL FITTINGS. CONCRETE THRUST BLOCKS SHALL BE PLACED BEHIND ALL FITTINGS EXCEPT WHERE LOCKING OR SWIVEL FITTINGS ARE UTILIZED, UNLESS OTHERWISE SPECIFIED BY THE WATER DIVISION ENGINEER.
- 14. ALL OFFSETS ARE TO BE DUCTILE IRON PIPE ASSEMBLIES LOCKED TOGETHER BY RETAINER GLANDS. DUCTILE IRON BENDS SHALL BE UTILIZED FOR ANY CHANGES IN ALIGNMENT OR GRADE.
- 15. IF A WATER LINE IS TO BE ABANDONED. THE CONTRACTOR WILL FILL WITH CONTROLLED LOW STRENGTH MATERIAL, "DARAFILL" BRAND OR ENGINEER APPROVED EQUAL, VALVES WILL BE REMOVED OR FILLED AS REQUIRED BY WATER DIVISION INSPECTOR.
- 16. CONTRACTOR SHALL COORDINATE WITH WATER DIVISION INSPECTOR AND NOTIFY ALL AFFECTED CUSTOMERS 24 HOURS PRIOR TO KILLOUT OF EXISTING WATER SYSTEM.
- 17. WATER DISTRIBUTION SYSTEM STANDARDS CALL FOR MAXIMUM 48" COVER ON WATERLINES. WHEN DEPTHS EXCEED 48" COVER TO AVOID OBSTRUCTION, THE USES OF BENDS COULD BE REQUIRED.
- 18. CONTRACTOR SHALL KEEP ALL EXISTING VALVES ACCESSIBLE DURING ALL PHASES OF CONSTRUCTION.
- 19. ALL NEW WATER MAINS SHALL BE INSTALLED SO THAT PIPE IDENTIFICATION MARKINGS ARE LOCATED ON THE TOP OF THE PIPE.
- 20. ALL SERVICE LINES UNDER PAVEMENT SHALL BE ONE INCH, INSIDE DIAMETER, MINIMUM.

## SPECIAL NOTE:

ENGINEER SHALL CONTACT THE UTILITY DEPARTMENT FOR WATER VAULT DESIGN COORDINATION.



3. ALL MAINS NOT UNDER THE STREET SHALL HAVE A MINIMUM OF 36" OF COVER AT ALL POINTS.

SEPARATION OF WATER AND WASTEWATER LINES

1. THE SEPARATION OF WATER AND WASTEWATER LINES AND THE MATERIAL USED SHALL BE IN

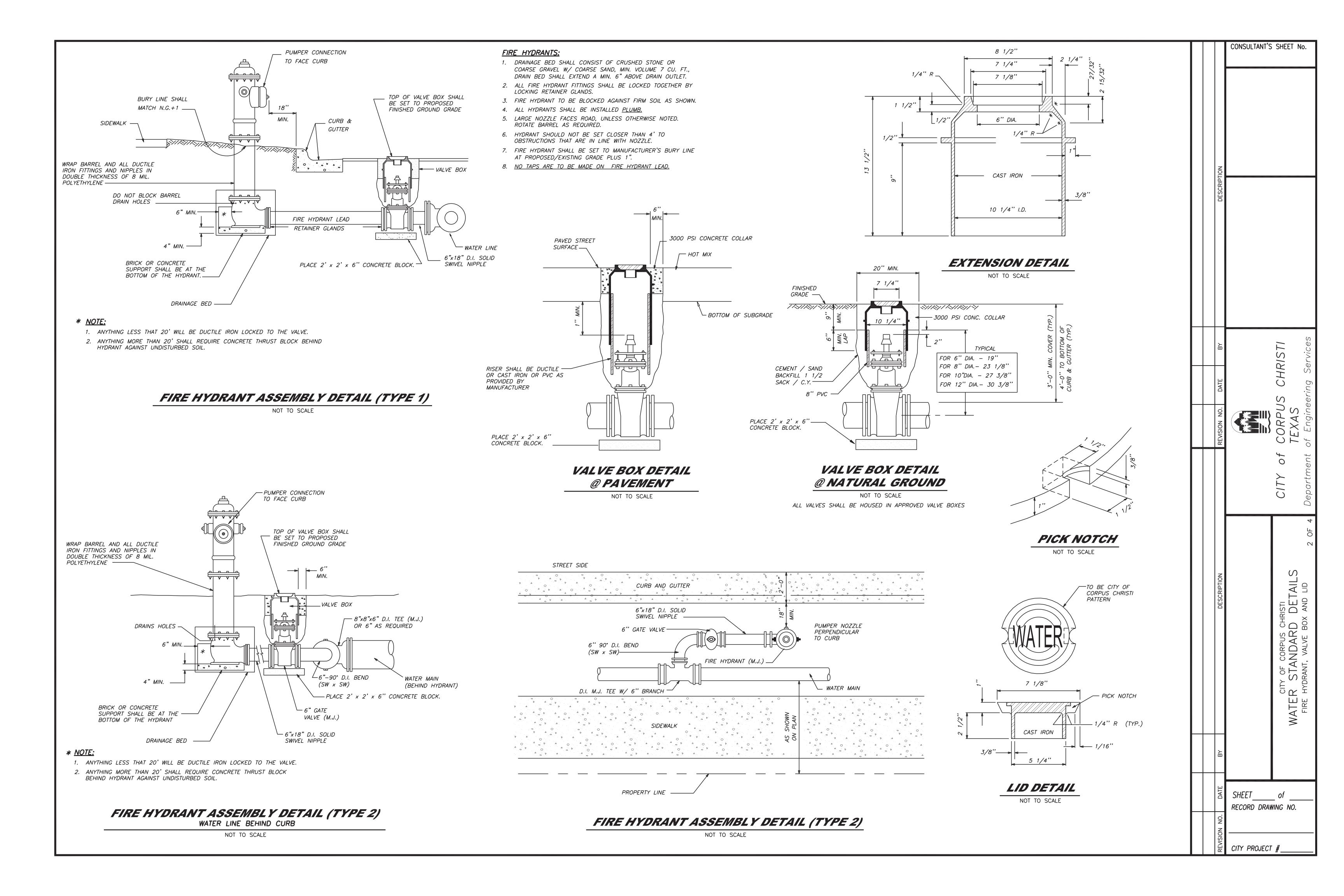
RESOURCE CONSERVATION COMMISSION AND THE CITY WATER DETAILS .

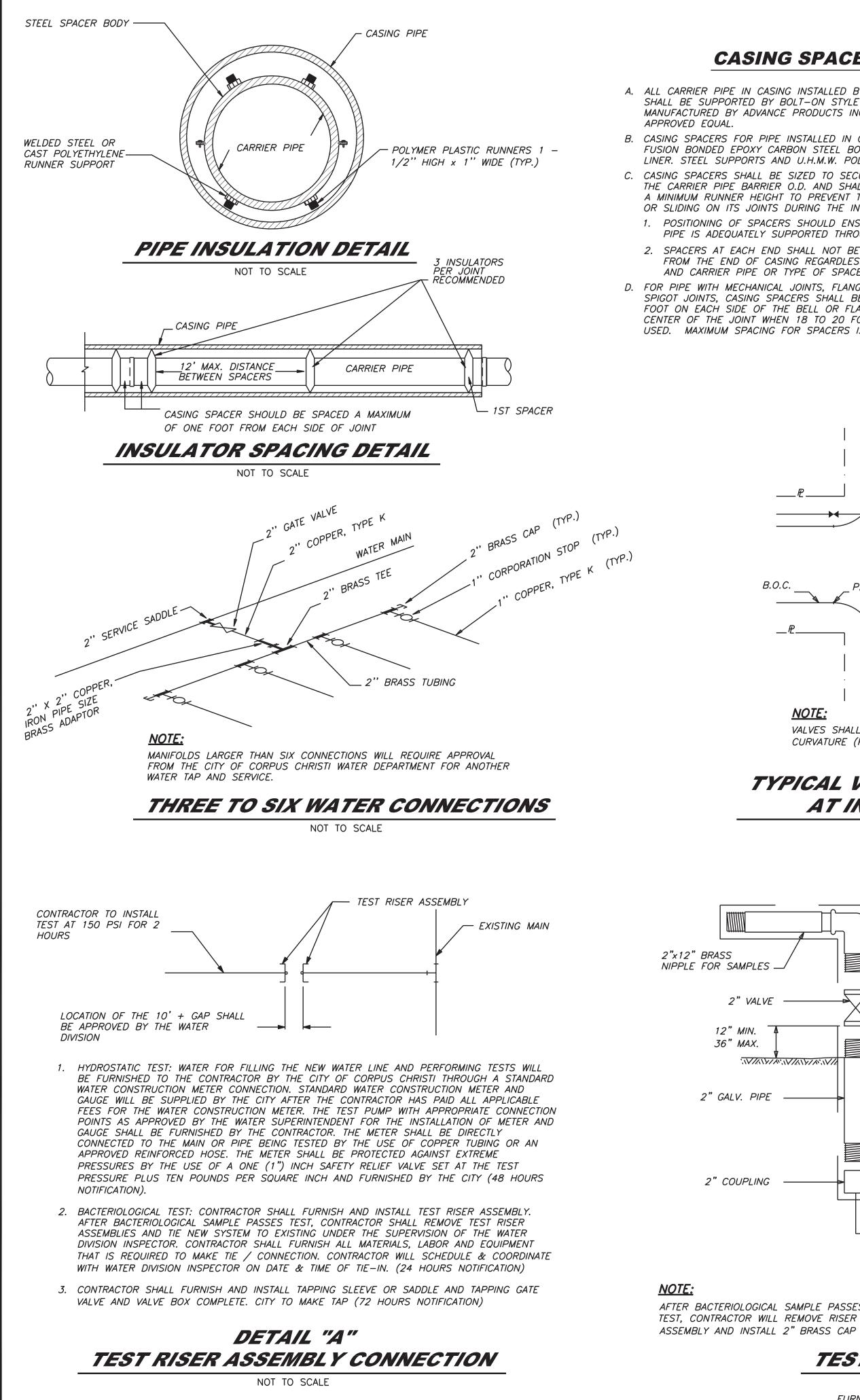
ACCORDANCE WITH THE "RULES & REGULATIONS FOR PUBLIC WATER SYSTEMS" OF TEXAS NATURAL

GENERAL NOTES

<u>TABLE 1</u> <u>BEDDING AND INITIAL BACKFILL</u> (BELOW PIPE TO 12" ABOVE PIPE)				
ALL BEDDING AND INITIAL BACKFILL SHALL CONSIST OF THE FOLLOWING OR REFER TO DESIGN ENGINEER REQUIREMENTS: GRANULAR BACKFILL CONSISTING OF EITHER NATURAL SAND OR SANDY GRAVEL, OR MATERIAL PRODUCED BY CRUSHING OF NATURAL STONE OR GRAVEL.	A.			
WATER LINES:				
1. EXCAVATIONS <20FT. DEEP AND <u>ABOVE WATER TABLE</u> , USE MATERIAL MEETING THE FOLLOWING CRITERIA.				
MEETING REQUIREMENTS OF ASTM D2487 FOR: SP GP SW GW SP-SM GP-GM SW-SM GW-GM				
AND IN ADDITION: PASSING 1/2" SIEVE – 100% PASSING #4 SIEVE – 30% MINIMUM PLASTICITY INDEX (PI) – NP TO 10 MAX.	В.			
2. IN DEEP EXCAVATIONS (>20') OR BELOW WATER TABLE, USE CRUSHED STONE OR CRUSHED GRAVEL MEETING GRADATION OF:				
A. CONCRETE COARSE AGGREGATE; TxDOT ITEM 421; GRADE 2, 3, OR 4.				

UNPAVED AREAS	PAVED AREAS		
CT BACKFILL MATERIAL FROM VATION COMPACTED TO 95% PROCTOR DENSITY (ASTM 2) SEE TABLE 2 – ITEM A	- TOPSOIL TO BE PROVIDED EQUAL OR BETTER THAN EXIST. (4" MIN. DEPTH) - ASPHALT OR CONCRETE PAVEMENT SECTION	SCRIPTION	
D=3'-0" MIN. FOR PIPES < 12" DIA. D=4'-0" MIN. FOR PIPES < 12" DIA. 12" FINAL BACKFILL	CEMENT-STABILIZED SAND (2 SACKS CEMENT/C.Y. OF SAND) COMPACTED TO 95% STD. PROCTOR DENSITY (ASTM D698) SEE TABLE 2 - ITEM B "O"" "O" "DENSITY (ASTM D698) SEE TABLE 2 - ITEM B "O"" "DENSITY (ASTM D698) SEE TABLE 2 - ITEM B	DESCRIF	
WATERLINE	DIPE SAND ENCASE	B	RISTI
	X = 8"  MIN. FOR PIPES < 16" DIA. $X = 12"  MIN. FOR PIPES $ 16" DIA.$	DATE	RPUS CHRIST
BACKFILL FO	HING, BEDDING AND OR WATERLINE	EVISION NO.	CORPU
NUT	TO SCALE <u>NOTE: (CONCRETE PAVEMENT ONLY)</u> CONTRACTOR WAS OPTION TO USE CEMENT	<u>۳</u>	
NOTES FOR BACKFI	<b>NOTE: (CONCRETE PAVEMENT ONLY)</b> CONTRACTOR HAS OPTION TO USE CEMENT STABILIZED SAND OR BACKFILL WITH SELECT BACKFILL MATERIAL		CITY of C
NOTES FOR BACKFIA         (GREATE)         UNPAVED AREA         NG OR       A. FOR 12" ABOVE PIPE TO BOTTOM OF TOPSOIL         DY OR       A. FOR 12" ABOVE PIPE TO BOTTOM OF TOPSOIL         BACKFILL SHALL BE APPROVED SELECT MATERIAL FROM THE EXCAVATION; OR IMPORTED MATERIAL; ALL TO BE FREE OF ROCKS, DEBRUS OR ANY CLUMPS GREATER THAN 2" IN DIAMETER; LOOSE LIFTS TO BE PLACED 10" MAX.         COMPACT MATERIAL TO 95% STD. PROCTOR (D698).         MOISTURE TO BE ADJUSTED TO ± 3% OF OPTIMUM.         B. TOPSOIL TO BE PROVIDED EQUAL OR BETTER THAN EXISTING; AND MATCH EXISTING ADJACENT TOPSOIL. (CONSTRUCTION TO BE PERFORMED BY "DOUBLD DITCH" METHOD TOP SOIL SALVAGED TO BE PLACED O	NOTE: (CONCRETE PAVEMENT ONLY)         CONTRACTOR HAS OPTION TO USE CEMENT STABILIZED SAND OR BACKFILL WITH SELECT BACKFILL MATERIAL         NATE:         NAME         MALE         NAME         NAME         NAME         NOTE:         CONTRACTOR HAS OPTION TO USE CEMENT STABILIZED SAND OR BACKFILL WITH SELECT BACKFILL WITH SELECT         NAME         Stabilized Sandor Pripe TO 3' BELOW         BOTTOM OF ROAD BASE: BACKFILL SHALL         BE SELECT MATERIAL FROM EXCAVATION OR         TO BE IMPORTED MATERIAL IN EITHER         CASE, ALL MATERIAL SHALL MEET THE         FOLLOWING:         LL<35         PI 8–20         NO CLUMPS > 2" DIA.         MOISTURE 0 TO +3%         COMPACT 95% DE98 STD PROCTOR         LOOSE LIFTS OF 10" MAX OR IF SELECT         MATERIAL FROM EXCAVATION DOES NOT         MET REQUIREMENTS, THEN USE CEMENT	DESCRIPTION	CITY OF CORPUS CHRISTI WATER STANDARD DETAILS DISTRIBUTION SYSTEM GENERAL NOTES & BACKFILL
NOTES FOR BACKF/         (GREATE)         UNPAVED AREA         NG OR       A. FOR 12" ABOVE PIPE TO BOTTOM OF TOPSOIL         BACKFILL SHALL BE         APPROVED SELECT MATERIAL FROM THE EXCAVATION; OR IMPORTED MATERIAL; ALL TO BE FREE OF ROCKS, DEBRU OR ANY CLUMPS GREATER THAN 2" IN DIAMETER; LOOSE LIFTS TO BE PLACED 10" MAX.         COMPACT MATERIAL TO 95% STD. PROCTOR (D698).         MOISTURE TO BE ADJUSTED TO ± 3% OF OPTIMUM.         B. TOPSOIL TO BE PROVIDED EQUAL OR BETTER THAN EXISTING; AND MATCH EXISTING TOPSOIL DEPTH, COMPACT TO FIX CONFLICT TO EXISTING ADJACENT TOPSOIL. (CONSTRUCTION TO BE PERFORMED BY "DOUBLD DITCH" METHOD TOP SOIL	NOTE: (CONCRETE PAVEMENT ONLY)         CONTRACTOR HAS OPTION TO USE CEMENT STABILIZED SAND OR BACKFILL WITH SELECT BACKFILL MATERIAL         NOTE:       TABLE 2 SAND OR BACKFILL WITH SELECT BACKFILL MATERIAL         NOTE:       TABLE 2         FINAL BACKFILL       PAVED AREAS         S       PAVED AREAS         A. FOR 12" ABOVE PIPE TO 3' BELOW BOTTOM OF ROAD BASE: BACKFILL SHALL BE SELECT MATERIAL FROM EXCAVATION OR TO BE IMPORTED MATERIAL IN EITHER CASE, ALL MATERIAL SHALL MEET THE FOLLOWING:         S.       LL<35         PI 8-20       NO CLUMPS > 2" DIA. MOISTURE 0 TO +3% COMPACT 95% D698 STD PROCTOR         LOSE LIFTS OF 10" MAX OR IF SELECT MATERIAL FROM EXCAVATION DOES NOT MEET REQUIREMENTS, THEN USE CEMENT STABILIZED SAND SEE TABLE 2-ITEM B BELOW (OR PER DESIGN ENGINEER)         B. FOR 3' BELOW BOTTOM OF ROAD BASE TO BOTTOM OF ROAD BASE:         B. FOR 3' BELOW BOTTOM OF ROAD BASE TO BOTTOM OF ROAD BASE:	E BY DESCRIPTION	OF CORPUS CHRISTI STANDARD DETAILS SYSTEM GENERAL NOTES & BACKFILL





# CASING SPACERS

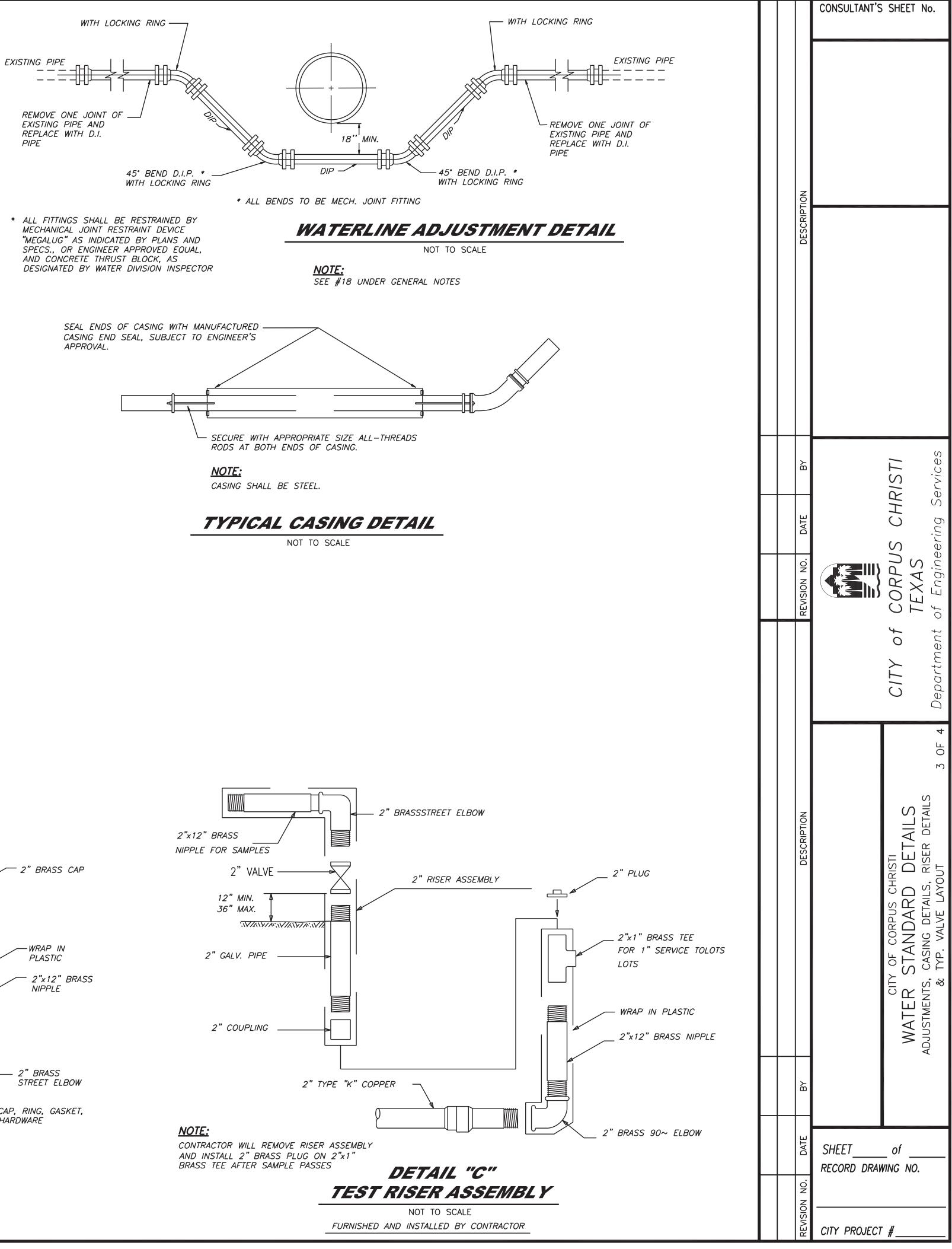
A. ALL CARRIER PIPE IN CASING INSTALLED BY JACKING OR BORING SHALL BE SUPPORTED BY BOLT-ON STYLE CASING SPACERS, AS MANUFACTURED BY ADVANCE PRODUCTS INC. OR ENGINEER

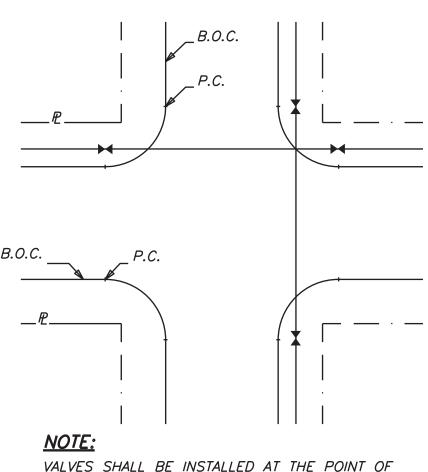
B. CASING SPACERS FOR PIPE INSTALLED IN CASING SHALL HAVE A FUSION BONDED EPOXY CARBON STEEL BODY, NEOPRENE OR PVC LINER. STEEL SUPPORTS AND U.H.M.W. POLYETHYLENE RUNNERS. C. CASING SPACERS SHALL BE SIZED TO SECURELY FASTEN ON TO THE CARRIER PIPE BARRIER O.D. AND SHALL BE FURNISHED WITH A MINIMUM RUNNER HEIGHT TO PREVENT THE PIPE FROM RESTING OR SLIDING ON ITS JOINTS DURING THE INSTALLATION.

1. POSITIONING OF SPACERS SHOULD ENSURE THAT THE CARRIER PIPE IS ADEQUATELY SUPPORTED THROUGHOUT ITS LENGTH. 2. SPACERS AT EACH END SHALL NOT BE FURTHER THAN 6" FROM THE END OF CASING REGARDLESS OF SIZE OF CASING

AND CARRIER PIPE OR TYPE OF SPACER USED. D. FOR PIPE WITH MECHANICAL JOINTS, FLANGES OR BELL AND

SPIGOT JOINTS, CASING SPACERS SHALL BE INSTALLED WITHIN ONE FOOT ON EACH SIDE OF THE BELL OR FLANGE AND ONE IN THE CENTER OF THE JOINT WHEN 18 TO 20 FOOT LONG JOINTS ARE USED. MAXIMUM SPACING FOR SPACERS IS 12 FEET.

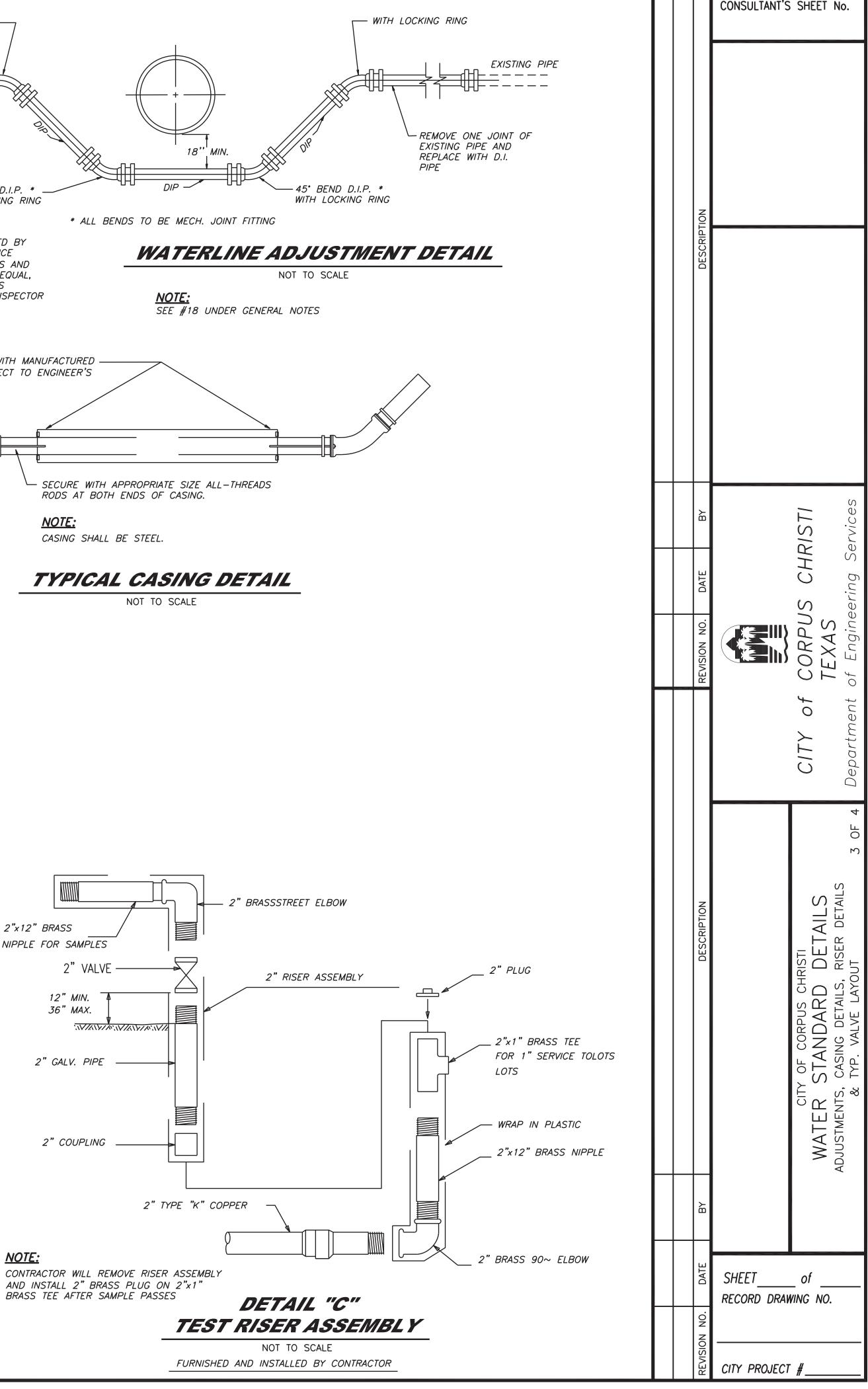


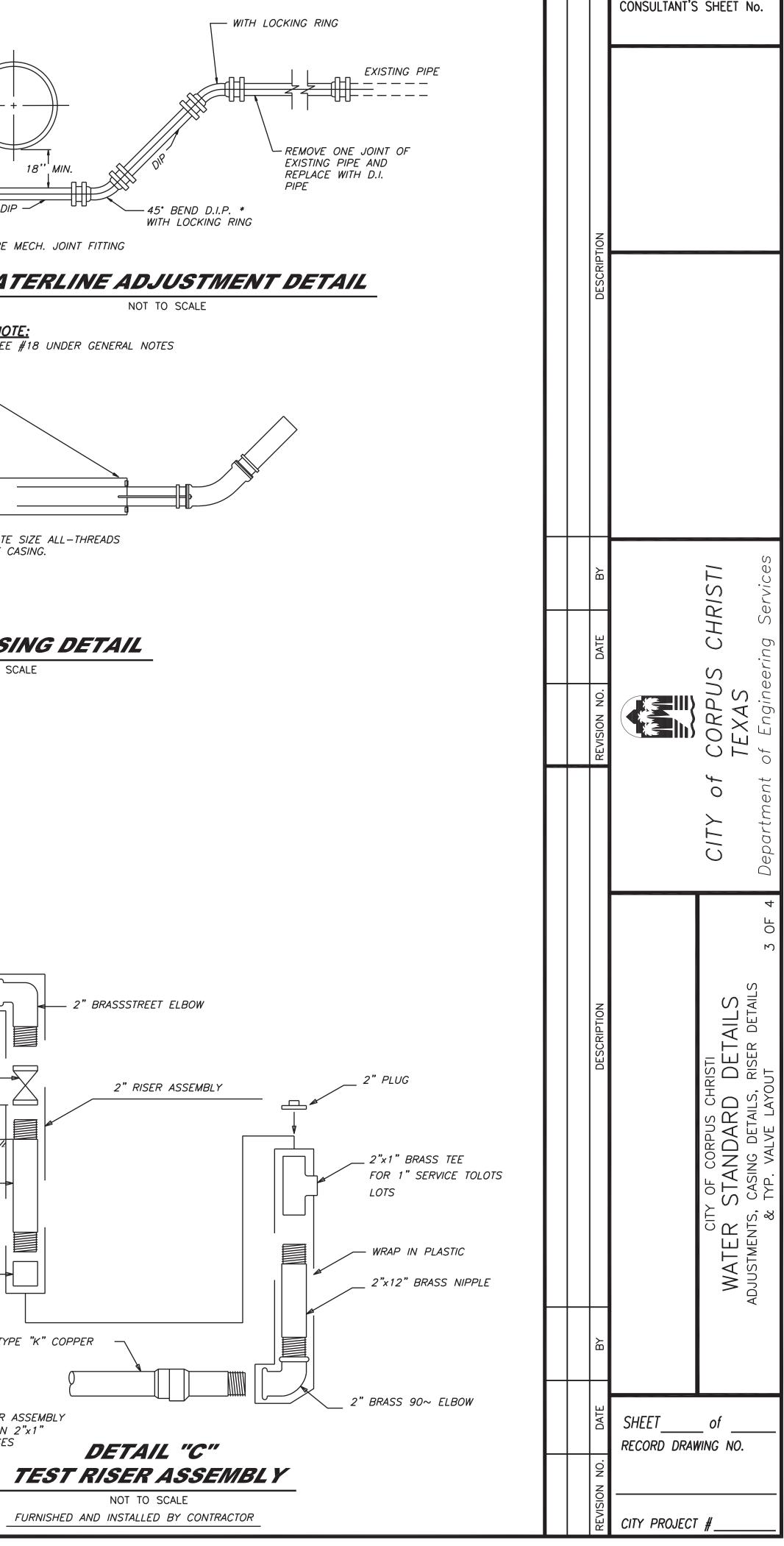


VALVES SHALL BE INSTALLED AT THE POINT OF CURVATURE (P.C.) OF THE CURB WHENEVER POSSIBLE.



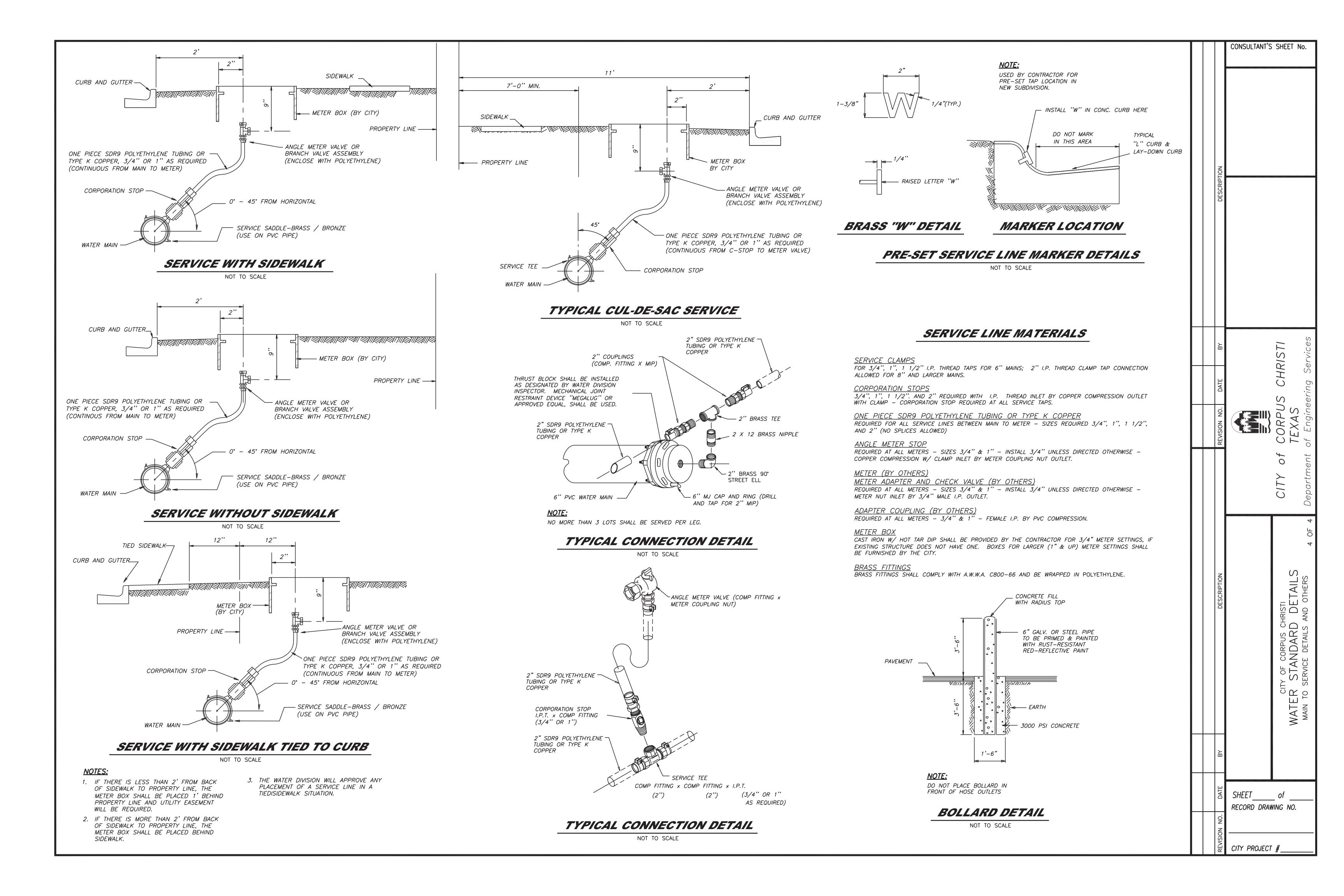
- 2" BRASSSTREET ELBOW 2" RISER ASSEMBLY 2" VALVE  $\square$ 12" MIN. 36" MAX. 2" GALV. PIPE 2" COUPLING M.J. CAP, RING, GASKET, AND HARDWARE AFTER BACTERIOLOGICAL SAMPLE PASSES TEST, CONTRACTOR WILL REMOVE RISER DETAIL "B"

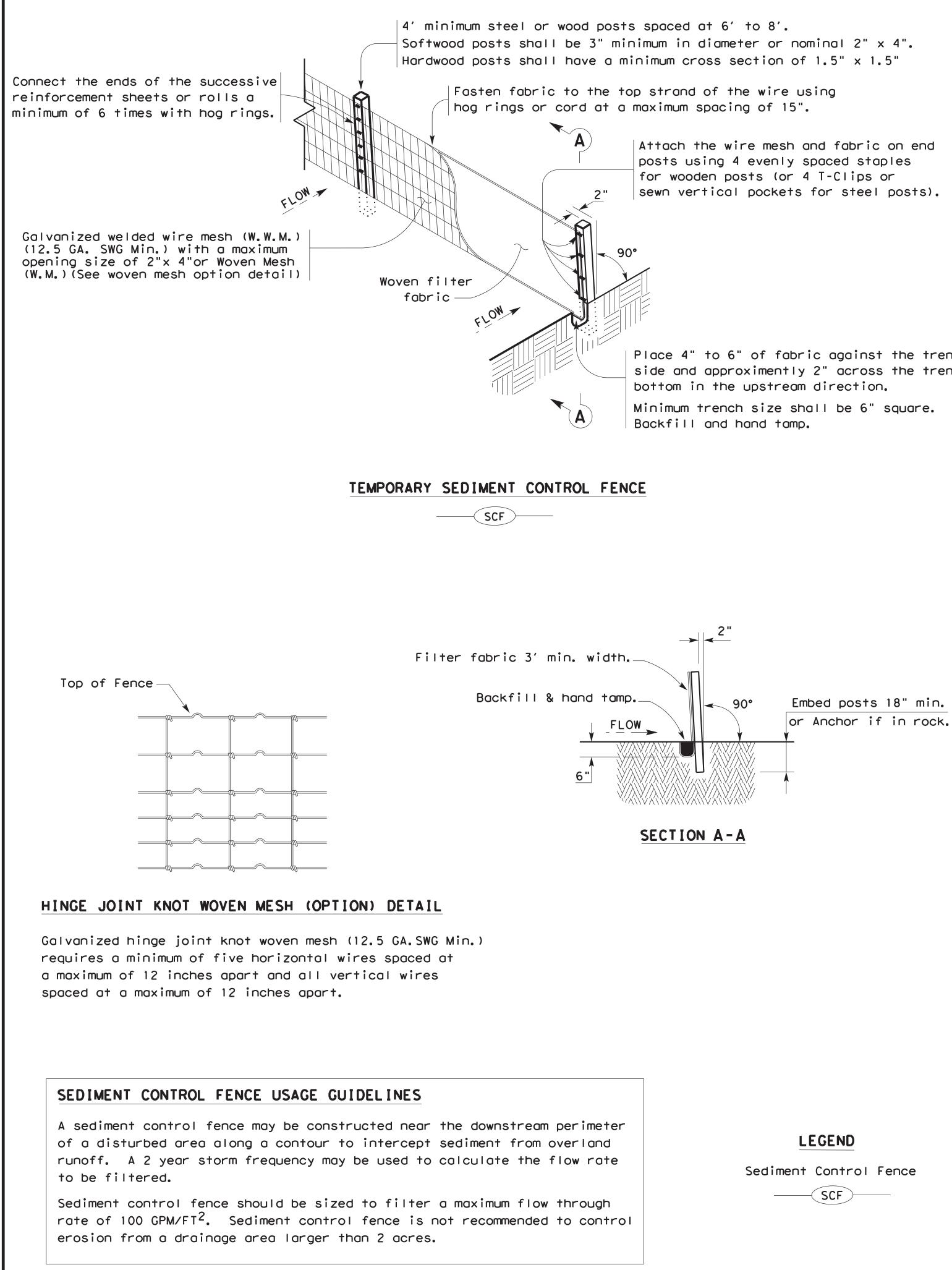




NOT TO SCALE FURNISHED AND INSTALLED BY CONTRACTOR

TEST RISER ASSEMBLY





DA TE F I L E

Attach the wire mesh and fabric on end posts using 4 evenly spaced staples for wooden posts (or 4 T-Clips or sewn vertical pockets for steel posts).

Place 4" to 6" of fabric against the trench side and approximently 2" across the trench bottom in the upstream direction. Minimum trench size shall be 6" square.

Sediment Control Fence

## GENERAL NOTES

- unless otherwise approved.

Dozer tracks create track imprints parallel to the slope contour.



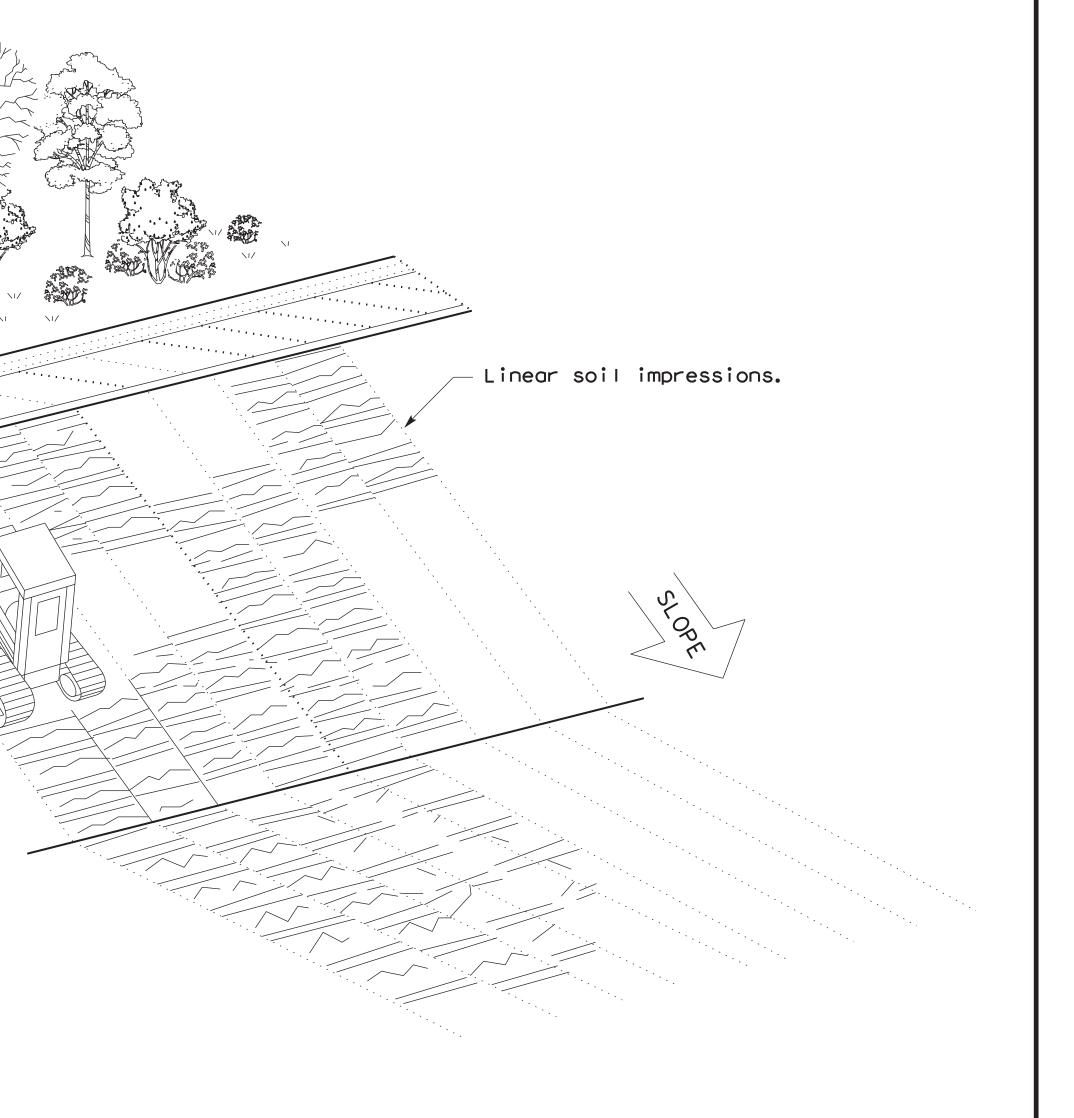
1. Vertical tracking is required on projects where soil distributing activities have occurred

2. Perform vertical tracking on slopes to temporarily stabilize soil.

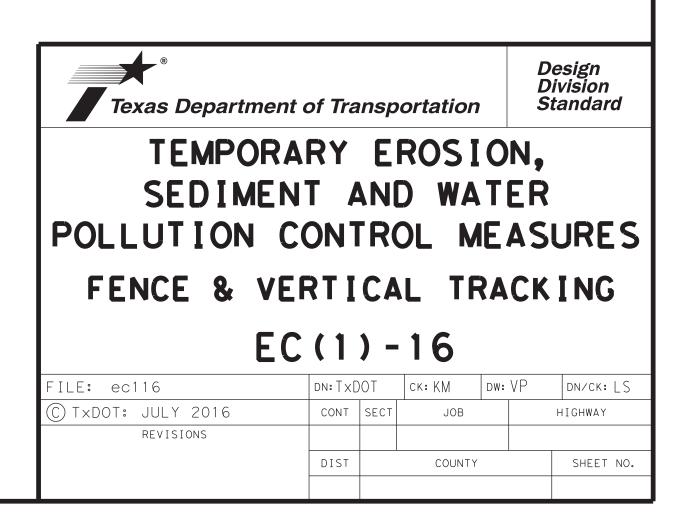
3. Provide equipment with a track undercarriage capable of producing linear soil impressions measuring a minimum of 12" in length by 2" to 4" in width by 1/2" to 2" in depth.

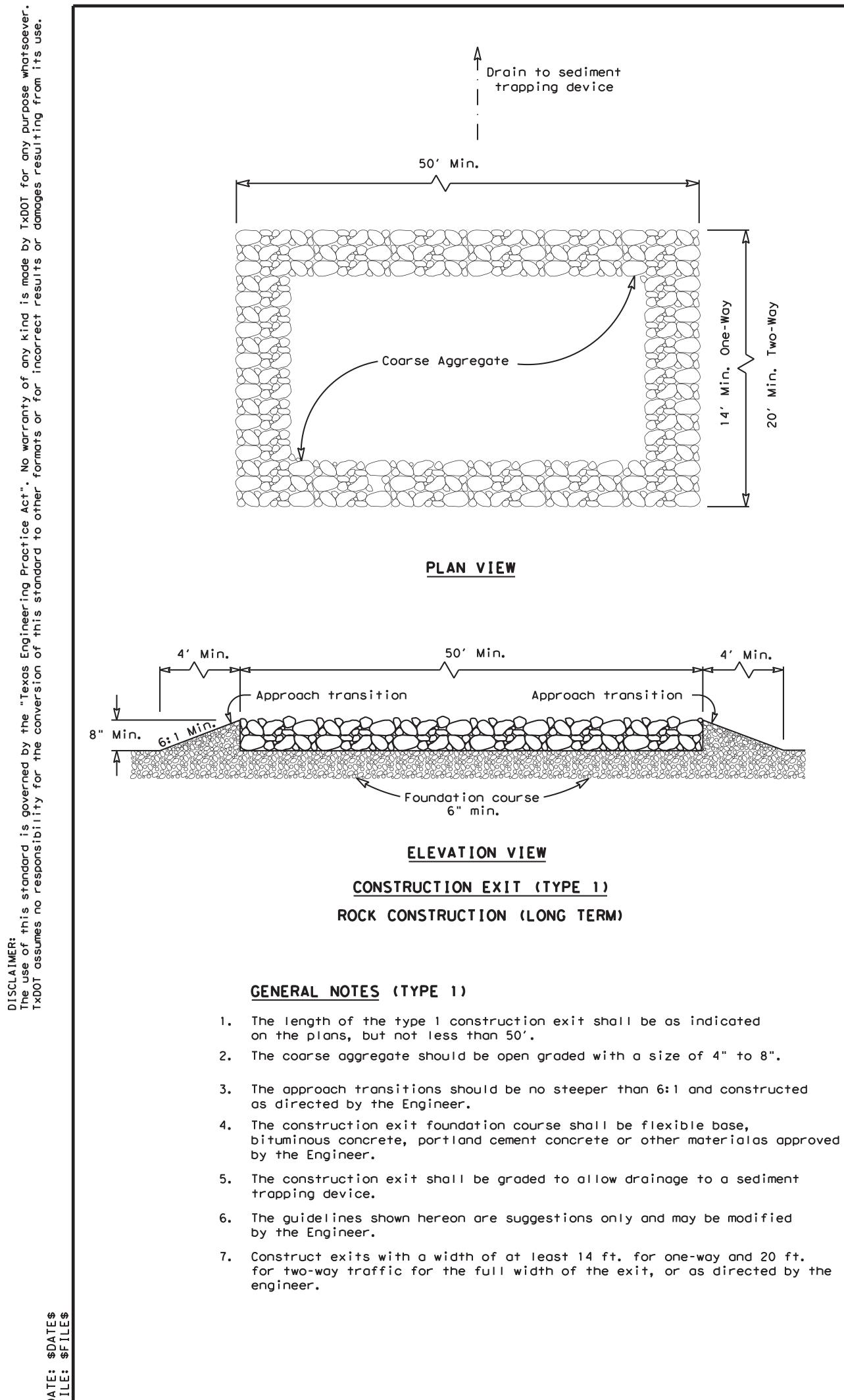
4. Do not exceed 12" between track impressions.

5. Install continous linear track impressions where the minimum 12" length impressions are perpendicular to the slope or direction of water flow.

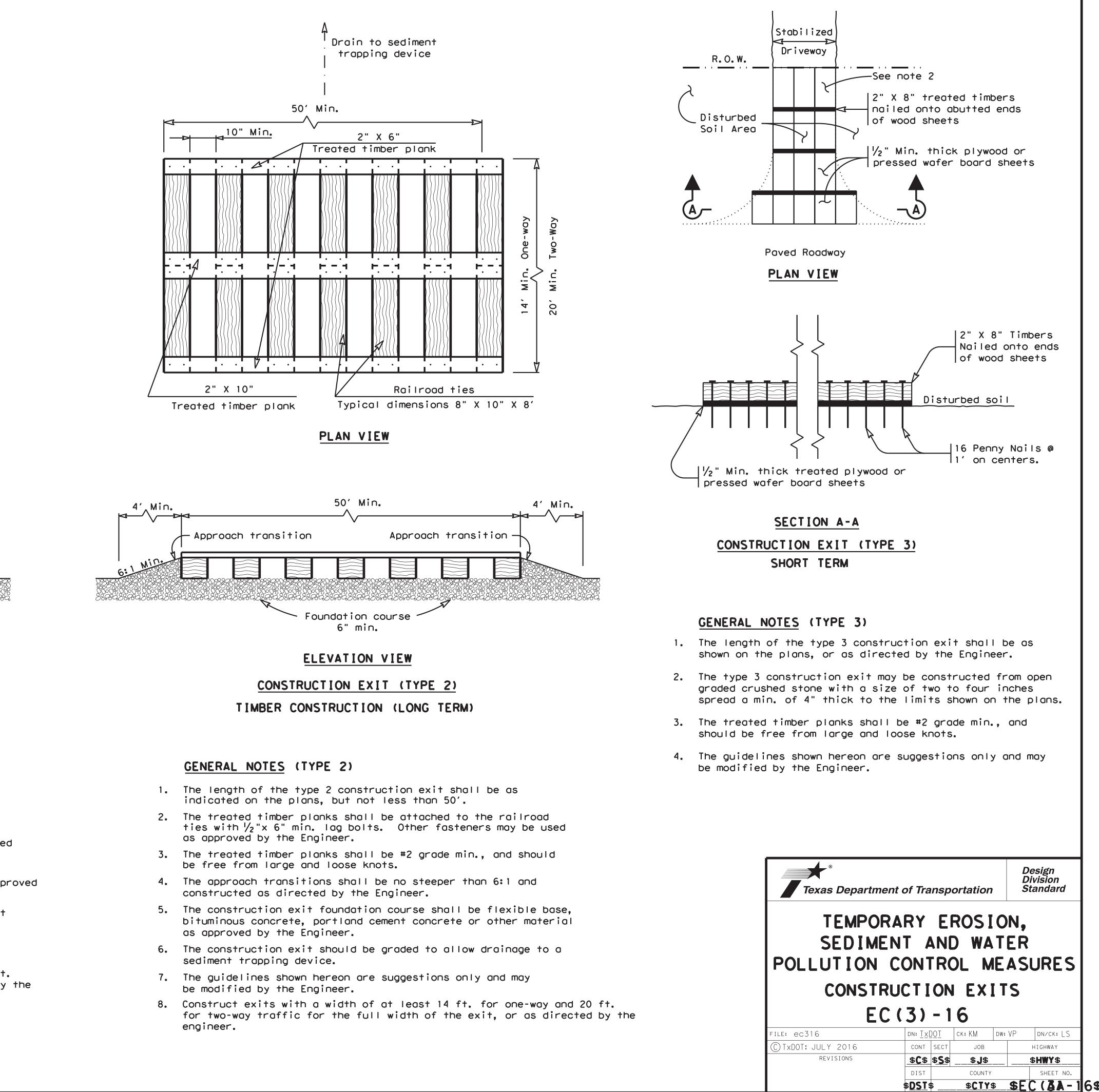


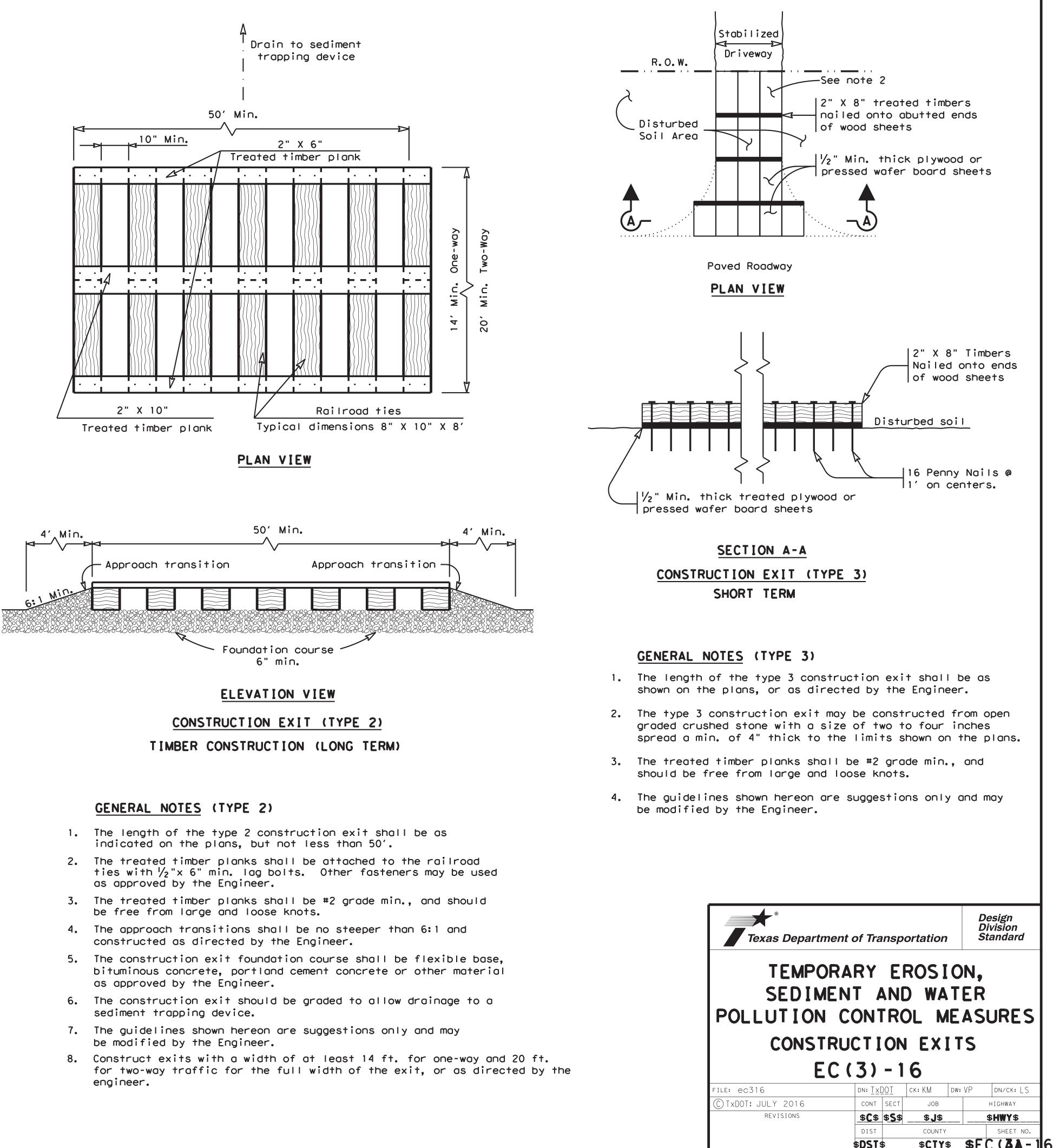
VERTICAL TRACKING

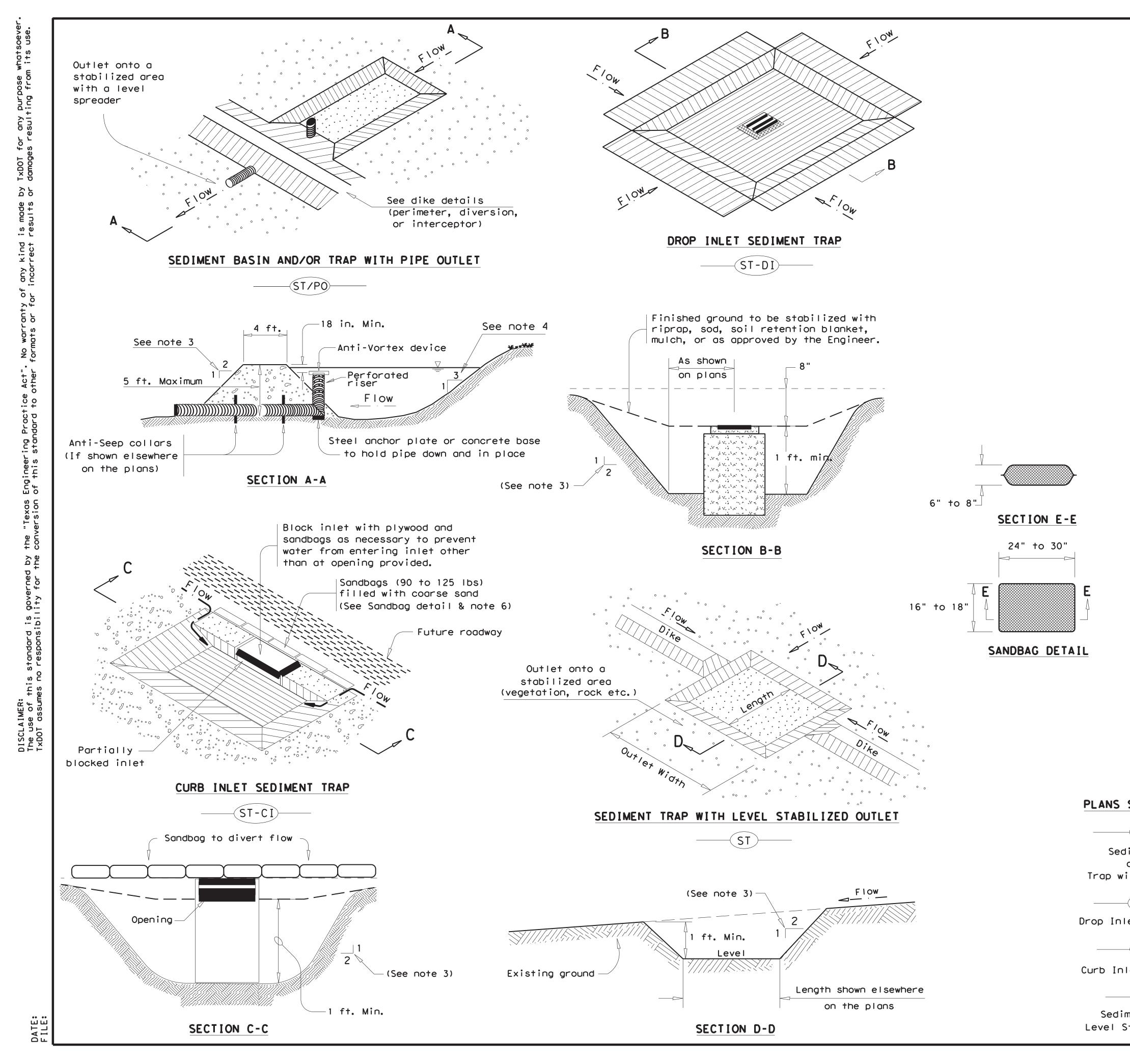




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### GENERAL NOTES

- 1. Pipe outlet material shall conform to the Item "Pipe Underdrains" or as accepted by the Engineer.
- 2. All pipe connections shall be watertight.
- 3. Side slopes within the safety clear zone of a roadway shall be 6:1 or flatter. Protect the traveling public from inlet stacks within the clear zone.
- 4. Sediment basins shall have side slopes of 3:1 or flatter.
- 5. The dimensions and limits of excavation for sediment basins and traps will be as shown elsewhere on the plans.
- 6. The sandbag material shall be made of polypropylene, polyethylene or polyamide woven fabric, min. unit weight 4 ounces /SY, Mullen burst strength exceeding 300 psi and ultraviolet stability exceeding 70%.
- 7. The guidelines shown hereon are suggestions only and may be modified by the Engineer.

### SEDIMENT BASIN & TRAP USAGE GUIDELINES

A sediment basin and/or trap may be used to precipitate sediment out of runoff draining from an unstabilized area.

<u>Basins</u>: The drainage area for a sediment basin should not exceed 100 acres. The basin capacity shall be at least 1800 CF/Acre of drainage area (0.5" over the drainage area). If the disturbed area draining to the basin is larger than 10 acres, the basin capacity should be 3600 CF/Acre (1.0" over the drainage area).

The basin should have a 40 hour draw-down time with an emergency spillway. The spillway may be designed to pass the peak rate of runoff from a 25 year frequency storm. The 100 year storm should be investigated to consider possible flooding impacts.

The entrance into the basin should be protected from erosion. The basin should be cleaned when the capacity has been reduced by 1/3.

<u>Traps</u>: The drainage area for a sediment trap should not exceed 5 acres. The trap capacity should be 1800 CF/Acre (0.5" over the drainage area).

Sediment traps should be placed in the following locations:

- 1. Within drainage ditches spaced @ 500' ± on center
- 2. Immediately preceding ditch inlets
- Just before the drainage enters a water course
   Just before the drainage leaves the right of way

The trap outlet may either be through a perforated riser and pipe assembly designed to achieve a 40 hour draw-down time or over a level stabilized area (vegetation, rock, etc.).

The trap should be cleaned when the capacity has been reduced by  $\frac{1}{2}$  or the sediment has accumulated to a depth of 1', whichever is less.

### PLANS SHEET LEGEND

ST/PO Sediment Basin	Texas Departmen	nt of Tra	nsp	ortatior	7	Design Division Standard
and / or Trap with Pipe Outlet	TEMPORARY EROSION,					
Drop Inlet Sediment Trap	SEDIMEN POLLUTION		_			
ST-CI	SEDIMENT E					
Curb Inlet Sediment Trap	E	C (6)	) –	16		
CT	FILE: ec616	DN: TX[	)OT	ск: КМ	dw: VP	DN/CK: LS
(ST)	C TXDOT: JULY 2016	CONT	SECT	JOB		HIGHWAY
Sediment Trap with	REVISIONS					
Level Stabilized Outlet		DIST		COUNT	(	SHEET NO.