



EL PASO COMMISSIONER'S COURT

COUNTY JUDGE COMMISSIONER PRECINCT 1

- COMMISSIONER PRECINCT 2
- COMMISSIONER PRECINCT 3
- COMMISSIONER PRECINCT 4



ON SEPTEMBER 21, 2020 ALTERATION OF A SEALED DOCUMENT WITHOUT PROPER NOTIFICATION TO THE RESPONSIBLE ENGINEER IS AN OFFENSE UNDER THE TEXAS ENGINEERING PRACTICE ACT"

GENERAL NOTES

- 1. THE CONTRACTOR SHALL VISIT AND FAMILIARIZE HIMSELF/HERSELF WITH THE PROJECT SITE PRIOR TO SUBMITTING BIDS.
- 2. IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE AUTOMOBILE AND PEDESTRIAN ACCESS AT ALL TIMES, INCLUDING SATURDAY, SUNDAYS AND HOLIDAYS TO AREA RESIDENTS AND FACILITY USERS. THIS INCLUDES. BUT IS NOT LIMITED TO DRIVEWAYS, STREETS AND ALLEYS, THIS REQUIREMENT IS SUBSIDIARY TO THE VARIOUS BID ITEMS. CONTRACTOR SHALL MAINTAIN DUST CONTROL PREVENTIVE MEASURES THROUGHOUT CONSTRUCTION.
- 3. ALL EXISTING WATER AND SANITARY SEWER MAINS (INCLUDING SERVICE CONNECTIONS) CURRENTLY IN SERVICE MUST REMAIN IN SERVICE THROUGHOUT CONSTRUCTION. RESIDENT WILL BE NOTIFIED 48 HRS PRIOR TO ANY SERVICE OUTAGE. SERVICE WILL BE RESTORED WITHIN 4 HOUR OR AS COORDINATED.
- 4. CONTRACTOR IS RESPONSIBLE FOR PROTECTING ALL EXISTING WATER AND SANITARY SEWER (INCLUDING SERVICE CONNECTIONS) FROM DAMAGE AS A RESULT OF CONSTRUCTION ACTIVITIES. EXISTING WATER AND SEWER MAINS (INCLUDING SERVICE CONNECTIONS) DISTURBED DURING CONSTRUCTION SHALL BE REPLACED TO ORIGINAL OR BETTER CONDITION AT NO COST TO THE OWNER.
- 5. IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO SCHEDULE AND PERFORM WORK SO AS TO PROVIDE PROPER PASSAGE OF ANY STORM WATER DURING THE COURSE OF CONTRACTOR OPERATIONS. ALL LABOR, TOOLS, EQUIPMENT AND SUPERVISION REQUIRED TO ASSURE SUCH PROPER PASSAGE OF RUNOFF WATER AND ANY REMOVAL OR HANDLING OF WATER IN ORDER TO MAINTAIN DRY CONDITIONS SHALL BE CONSIDERED AS INCIDENTAL TO THE REMAINDER OF THE WORK AND SHALL BE AT THE EXPENSE OF THE CONTRACTOR. CONTRACTOR SHALL PUMP THE WATER OUT OF THE BASIN AFTER A STORM EVENT. THE PUMPING OPERATIONS AND DISCHARGE POINTS SHALL BE COORDINATED AND APPROVED BY THE COUNTY OF EL PASO. CONTRACTOR IS RESPONSIBLE FOR THE FULL PROJECT SITE ONCE THE NOTICE TO PROCEED IS ISSUED. CONTRACTOR IS RESPONSIBLE FOR THE PROPER PASSAGE RUNOFF FOR THE FULL PROJECT SITE.
- 6. THE CONTRACTOR SHALL COORDINATE THE CONSTRUCTION SCHEDULE WITH ALL UTILITIES AND ALL OTHER AFFECTED AGENCIES.
- 7. THE CONTRACTOR SHALL COMPLY WITH ALL THE STATE STATUTES, MUNICIPAL AND LOCAL ORDINANCES, RULES AND REGULATIONS, PERTAINING TO THE LOCATION OF THESE UTILITY FACILITIES. THE CONTRACTOR IS FULLY RESPONSIBLE FOR ANY AND ALL DAMAGE CAUSED BY HIS FAILURE TO LOCATE, IDENTIFY AND PRESERVE ANY AND ALL EXISTING UTILITIES IN THE PLANNING AND CONDUCTING OF EXCAVATION. THE COUNTY OF EL PASO MAKES NO REPRESENTATION PERTAINING THERE TO AND ASSUMES NO RESPONSIBILITY OF LIABILITY. THEREFORE, IF THE UTILITY FACILITIES ARE DAMAGED DURING CONSTRUCTION ALL PAVEMENT, ADJACENT UTILITIES, STRUCTURES, ETC. DISTURBED OR DAMAGED AS A RESULT OF CONSTRUCTION SHALL BE REPLACED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE COUNTY TO ORIGINAL OR BETTER CONDITION. UNDERGROUND/OVERHEAD UTILITY FACILITIES SHOWN ON THESE DRAWINGS ARE FOR PLANNING DESIGN PURPOSES ONLY. OTHER UTILITY FACILITIES MAY EXIST WHICH ARE NOT SHOWN ON THE DRAWINGS. THE LOCATION, DEPTH, AND SIZE OF THESE UTILITY FACILITIES SHOWN ARE FOR INFORMATION PURPOSES ONLY AND MUST BE VERIFIED BY THE CONTRACTOR. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE THE FACILITY'S EXACT DEPTH AND LOCATION BY SAFE AND ACCEPTABLE MEANS WITHIN THE MARKED FACILITY AREA.
- 8. THE CONTRACTOR MUST VERIFY ALL DIMENSIONS AND GRADES BEFORE PROCEEDING WITH THE WORK. THE CONTRACTOR WILL BE HELD RESPONSIBLE FOR THEIR CORRECTNESS.
- 9. VERTICAL CONTROL FOR THIS PROJECT IS BASED UPON NAVD 88 DATUM. TOPOGRAPHIC SURVEY WAS PERFORMED BY BARRAGAN AND ASSOCIATES INC.
- 10. THE BOUNDARY RIGHT-OF-WAY AND EASEMENT LINES SHOWN AREA BASED ON ACTUAL BOUNDARY SURVEY PERFORMED BY THE SURVEYOR.
- 11. IF THE CONTRACTOR DISTURBS ANY EXISTING COUNTY MONUMENT, IT SHALL BE REPLACED BY A REGISTERED SURVEYOR IN THE STATE OF TEXAS AT NO COST TO THE OWNER. THE CONTRACTOR'S SURVEYOR SHALL FURNISH A CERTIFIED ELEVATION AND LOCATION FOR EACH REPLACED MONUMENT.
- 12. REJECTED/DEFECTIVE CURB MUST BE REPLACED IN 10-FOOT LONG SECTIONS, MINIMUM AND/OR TO THE NEAREST EXPANSION JOINT.
- 13. EXPANSION JOINTS FOR MACHINE LAID CURBS SHALL BE PROVIDED AT CHANGES OF DIRECTION, AT ALL CURB RETURNS, WHERE CURB ABUTS OTHER MASONRY STRUCTURES, AND WHERE MACHINE STARTS AND STOPS LAYING CURB.
- 14. SCORED CONSTRUCTION JOINTS SHALL BE AT LEAST 1/4 THE THICKNESS OF THE CONCRETE SLAB AND SHALL BE PROVIDED EVERY 10 FEET FOR CURB AND GUTTER AND EVERY 5 FEET FOR SIDEWALKS.
- 15. ALL CONCRETE SHALL COMPLY WITH THE STRENGTH SPECIFIED UNDER THE TECHNICAL SPECIFICATIONS.
- 16. DIMENSIONS RELATING TO REINFORCING STEEL ARE TO BE TO THE CENTER OF BARS UNLESS OTHERWISE SHOWN ON THE PLANS.
- 17. COST OF FIELD CUTTING AND BENDING OF REINFORCING STEEL SHALL BE INCIDENTAL TO CONSTRUCTION AND NO ADDITIONAL PAYMENT WILL BE CONSIDERED.
- 18. VIBRATORY ROLLERS WILL NOT BE PERMITTED ON ANY PHASE OF THIS PROJECT.
- 19. THE CONTRACTOR SHALL CONTACT A NOTIFICATION CENTER OR THE PROPER UTILITY COMPANY 48 HRS. PRIOR TO PERFORMING ANY EXCAVATION.

- 20. CONTRACTOR IS EXPECTED TO MAINTAIN A MINIMUM ADDITIONAL COST TO THE OWNER.
- 21. THE CONTRACTOR/EXCAVATOR IS CAUTIONED THAT WEIGHT AND/OR OTHER CHARACTERISTICS.
- 22. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ACQUIRING PERMIT WILL BE AT THE CONTRACTOR'S EXPENSE.
- 23. ALL EXISTING ROADWAYS, SIDEWALKS. SIGNS. THE OWNER.
- 24. THE FOLLOWING LOCAL AGENCY PERSONNEL SHALL BE WORK.

LIST OF UTILITIES AND AGENCIES						
COMPANY NAME	CONTACT PERSON	PHONE NUMBER				
EL PASO ELECTRIC COMPANY (DISTRIBUTION DEPT.)	MARGARET ONTIVEROS	(915) 543–2244				
TEXAS GAS SERVICE	FRANCISCO CAMPA	(915) 680-7275				
AT&T	DIANA McKOWN	(915) 595-5142				
LOWER VALLEY WATER DISTRICT	DANIEL HERNANDEZ	(915) 791–4480				
EMERGENCIES AND HAZMAT	-	911				
DIG TESS	_	(800) 344–8377				

- 25. THE CONTRACTOR SHALL NOTIFY EL PASO COUNTY PUBLIC PROJECT SITE.
- 26. CONTRACTOR SHALL ADJUST ALL MANHOLES, WATER VALVES ETC. TO NEW PAVEMENT ELEVATIONS.
- 27. CONTRACTOR SHALL BE RESPONSIBLE FOR SECURING IT'S WORK AREAS TO PREVENT ANY UNAUTHORIZED ACCESS.
- 28. CONTRACTOR IS RESPONSIBLE FOR ALL REQUIRED SWEEPING, DEBRIS, REMOVAL ETC.
- 29. CONTRACTOR SHALL COORDINATE WITH THE PUBLIC WORKS AND/OR PROPOSED SIGNS.
- 30. CONTRACTOR SHALL COORDINATE AND OBTAIN PERMIT COMMENCEMENT OF ANY DEMOLITION ACTIVITIES.
- 31. COORDINATE WITH THE PUBLIC WORKS COUNTY ENGINEER ROCKWALLS LOCATED WITHIN STREET ROW.
- 32. CONTRACTOR SHALL INSTALL TEMPORARY TRAFFIC CONSTRUCTION AREAS.
- 33. CONTRACTOR IS RESPONSIBLE FOR ANY TEMPORARY RELOCATIONS.

CLEARANCE OF TWO FEET PLUS THE WIDTH OF THE LINE BETWEEN MARKED AND UNEXPOSED FACILITIES AND THE CUTTING EDGE OR POINT OF ANY POWER-OPERATED EXCAVATING OR EARTH-MOVING EQUIPMENT. EXCAVATION SHOULD BE PERFORMED VERY CAREFULLY WITH HAND TOOLS AND WITHOUT DAMAGE AND SHALL BE DONE AT NO

EQUIPMENT MAY DISTURB/DAMAGE FACILITIES BY ITS

PERMITS FROM THE COUNTY OF EL PASO PRIOR TO DEMOLITION AND NEW CONSTRUCTION. THE COST OF THE

LANDSCAPING. DRAINAGE STRUCTURES AND DRIVEWAYS NOT TO BE DISTURBED AFFECTED BY CONSTRUCTION ACTIVITIES SHALL BE RESTORED TO ORIGINAL CONDITION OR BETTER BY CONTRACTOR AT NO ADDITIONAL COST TO

CONTACTED BY CONTRACTOR PRIOR TO COMMENCING

WORKS DEPT. IN WRITING, OF ANY PROPOSED DUMP SITE(S) FOR OVERBURDEN AND ANY CONSTRUCTION DEBRIS FOR REVIEW AND APPROVAL. THE CONTRACTOR SHALL OBTAIN APPROVAL OF IT'S TRUCK ROUTE TO THE DUMP SITE. AS WELL AS FOR THE MATERIALS IT SHALL BE HAULING BEFORE REMOVAL OF OVERBURDEN FROM

ACTIVITIES TO KEEP THE TOTAL PROJECT LIMITS IN A CLEAN AND SAFE CONDITION. SEQUENCING OF WORK DOES NOT RELIEVE THE CONTRACTOR OF HOUSE KEEPING THROUGHOUT THE COMPLETE PROJECT LIMITS. TO INCLUDE, BUT NOT LIMITED TO WATER EXTRACTION, STREET

DEPT. THROUGH THE PROJECT MANAGER FOR REPLACEMENT AND/OR RELOCATION OF ANY EXISTING

APPROVALS FROM OWNER FOR THE REMOVAL/RELOCATION OF ALL ITEMS AS SHOWN ON DRAWINGS PRIOR TO

AT 915-546-2015 PRIOR TO REMOVAL/RELOCATION OF ANY EXISTING FIRE HYDRANTS, MONUMENTS, FENCES AND

CONTROL MEASURES AS DESCRIBED ON THE GENERAL NOTES FOR TRAFFIC CONTROL PLAN (TCP) FOR

RELOCATION OF ANY SURFACE STRUCTURES. CONTRACTOR SHALL ALSO COORDINATE WITH EL PASO COUNTY OR THE ADJACENT PROPERTY OWNER(S) FOR ANY

SPECIFICATION REFERENCE

XX XX XX

SERIES OF NUMBERS ON PLANS USED TO CROSS-REFERENCE THE APPLICABLE TECHNICAL SPECIFICATION SECTION.

SECTION AND DETAIL REFERENCE

-SECTION OR DETAIL IDENTIFICATION NUMBER DETAIL SCALE CXX

-SHEET NUMBER ON WHICH SECTION OR DETAIL IS SHOWN

GENERAL NOTES FOR TRAFFIC CONTROL PLAN FOR CONSTRUCTION AREAS

- 1. TRAFFIC CONTROL PLAN (TCP) FOR THE FULL PROJECT SITE SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- 2. SUBMIT A TRAFFIC CONTROL PLAN TO THE EL PASO COUNTY PUBLIC WORKS DEPT. FOR REVIEW AND APPROVAL 7 DAYS OR SOONER AFTER AWARD OF CONTRACT AND TO COMMENCEMENT OF WORK.
- 3. THE TRAFFIC CONTROL PLAN SHALL BE SEALED BY A LICENSED PROFESSIONAL ENGINEER IN THE STATE OF TEXAS. THE CONTRACTOR SHALL PREPARE BARRICADES AND A TRAFFIC CONTROL PLAN ACCEPTABLE TO AND APPROVED BY THE PUBLIC WORKS DEPARTMENT.
- 4. ERECT PORTABLE MESSAGE SIGNS FOR A PERIOD OF SIX (6) DAYS PRIOR TO COMMENCEMENT OF CONSTRUCTION ACTIVITIES. SIGNS SHALL DISPLAY MESSAGE NOTIFYING TRAVELING PUBLIC OF UPCOMING CONSTRUCTION. CONTACT THE PUBLIC WORKS DEPARTMENT FOR EXACT MESSAGE TO BE DISPLAYED AND EXACT LOCATION OF SIGNS.
- 5. BUSINESSES, RESIDENTS, EMERGENCY FACILITIES, SCHOOLS, E.M.S., AND CITY AGENCIES SHALL BE ADVISED AND/OR CONSULTED BY THE CONTRACTOR DURING REPARATION OF TCP OF TCP AND NOTIFIED PRIOR TO THE START OF CONSTRUCTION.
- 6. ACCESS TO PUBLIC AND PRIVATE PROPERTY LOCAL ACCESS SHALL BE MAINTAINED TO ALL PROPERTIES AT ALL TIMES ON ALL STREETS DURING CONSTRUCTION AND MAINTENANCE ACTIVITIES.
- 7. THE TRAFFIC CONTROL PLAN SHALL SHOW THE HOURS OF THE DAY AND THE TENTATIVE TOTAL NUMBER OF DAYS IT WILL BE IN EFFECT.
- 8. TRAFFIC CONTROL & STREET NAME SIGNS ALL TRAFFIC CONTROL OR STREET NAME SIGNS AND SIGN POSTS ADJACENT TO CONSTRUCTION OR MAINTENANCE WORK SITE SHALL BE PROTECTED FROM DAMAGE, THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO EXISTING TRAFFIC CONTROL PLAN AND STREET NAME SIGNS AND SIGN POST. THE DAMAGE SHALL BE REPAIRED COMPLETELY AND TO THE SATISFACTION OF THE OWNER AND THE CITY ENGINEER WITHIN 24-HRS. AND A TEMPORARY SIGN SHALL BE PROVIDED.

SURVEY ABBREVIATIONS

 AC ASV CATV CBC CL CMP CONC DIP DIA EBX FH FM FOMKR FT G GALV GM GV GP GR GU GV HMAC INV IV LP LT MAX MIN MH NOM OC OCEW 	CABLE TV PEDESTAL CONCRETE BOX CULVERT CENTERLINE CORRUGATED METAL PIPE CONCRETE DUCTILE IRON PIPE DIAMETER ELECTRIC BOX FIRE HYDRANT FORCE MAIN FIBER OPTIC MARKER FEET GAS LINE GALVANIZED GAS METER GAS VALVE GUARDPOST NATURAL GROUND GUTTER GAS VALVE HOT MIXED ASPHALTIC CONCRETE INVERT IRRIGATION VALVE LIGHT POLE LEFT MAXIMUM MAILBOX MINIMUM		OD OFF PGL PVC RT ROEO SS SSP AD M BX TD TG H FS SSB TB TD TG H FS SSB TW F W W W W W W W W	OFFSET PEDESTAL PROFILE GRADE LINE PROPERTY LINE POWER POLE POLYVINYL CHLORIDE REINFORCED CONCRETE PIPE RIGHT RIGHT OF WAY RIGHT OF ENTRY SEWER CLEANOUT SANITARY SEWER STORM SEWER STORM SEWER STAINLESS STEEL 0.2'Ø SIGNPOST STATION STANDARD STORM SEWER TEMPORARY BENCHMARK TELEPHONE PEDESTAL TOP OF CURB TOP OF DRIVEWAY TOP OF GROUND TELEPHONE MANHOLE TOP OF SIDEWALK TRAFFIC SIGNAL BOX TOP OF WALL TYPICAL WATER LINE
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SURVEY LEGEND

<u> 301 1</u>			
	SET BIG NAIL	-0	ANCHOR
	ORIGINAL CORNER		IRRIGATION VALVE
•	SET 1/2" REBAR W/CAP "B&A INC" (UNLESS NOTED OTHERWISE)	S	MANHOLE, SEWER
0	CALCULATED POINT (UNABLE TO SET)		MANHOLE
		С)	POWER POLE
	BUILDING	4	TRAFFIC SIGNAL
	BRICK WALL	wv M	WATER VALVE
x	CHAIN LINK FENCE	4.4.4	CONCRETE
	CONCRETE		PAVEMENT
	CURB	000000	SCREENING PAVEMENT
	EDGE OF PAVEMENT	۲	POST – BOLLARD
	ROCK WALL	P.R.E.C.	PLAT RECORDS OF EL
<u> </u>	SIGN		PASO COUNTY, TEXAS
— <i>//</i> —//—//—	WOOD FENCE	Ś	APPARENT STORM MANHOLE
	INLET	wv [×]	APPARENT WATER VALVE

SHEET INDEX

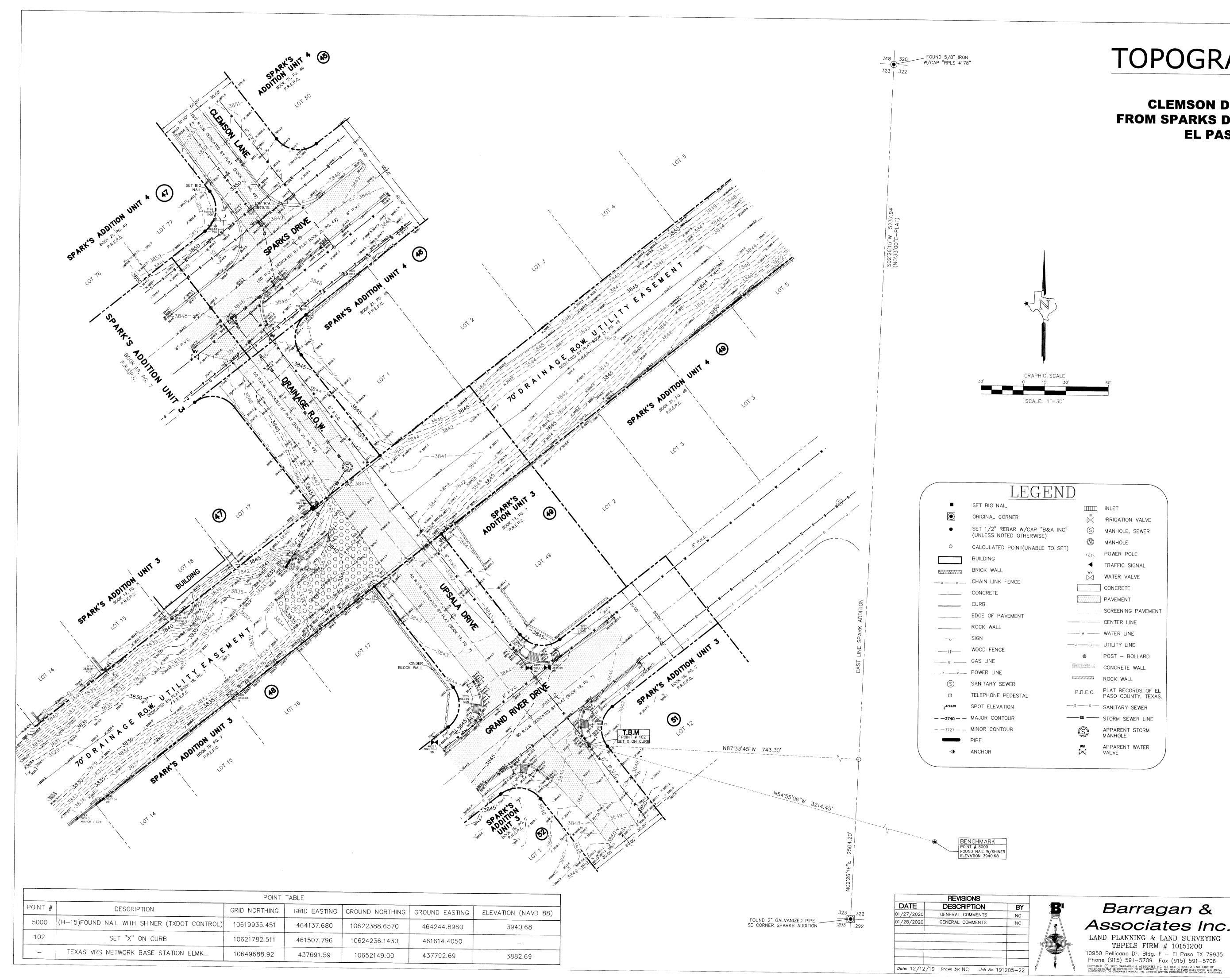
CIVIL

COVER SHEET	G0.0	
GENERAL NOTES & LEGEND	G1.0	
TOPOGRAPHIC SURVEY	V0.0	
TRAFFIC CONTROL PLAN	C1.0	
DEMOLITION PLAN	C2.0	
SITE & HORIZONTAL CONTROL PLAN	C3.0	
GRADING PLAN	C4.0	
GRADING CROSS SECTIONS	C5.0–C5.	.1
OVERALL WATERSHED MAP	C6.0	
TYPICAL DETAILS		.2
DRAINAGE TYPICAL DETAILS	C8.0–C8.	.2
REINFORCED CONCRETE PAYMENT LAYOUT	C9.0	
SW3P PLAN	C10.0	
SW3P GENERAL NOTES	C11.0	
SW3P DETAILS TYPICAL	C12.0	

NO. DATE REVISION REMARKS						
NO. DATE						
	PLANNING.ENGINEEKING.PKOJECT MANAGEMENT	Moreno	Cardenas Inc.	EL PASO • SAN ANTONIO	2505 E. Missouri Ave. El Paso, TX 79903 (915) 532-2091 9601 McAllister Freeway #207, San Antonio TX 78216 (210) 314-3553	Texas Board of Professional Engineers Registration No. F-000554
ENGINEER'S SEAL	9/21/2020	STATE OF LET UN		FERNAN	132581 P. 2	ALL STONAL STORAGE
ENGINEER'S NOTE	"THE SEAL APPEARING ON THIS	DOCUMENT WAS AUTHORIZED BY	FERNANDO SANCHEZ, P.E. #132581	ALTEF	THE RESPONSIBLE ENGINEER IS AN	TEXAS
SCALE		VertN/A	Date SEPT 2020	Design by <u>F.S./E.G</u> . Drawn by <u>E.G.</u>	Chkd. by F.S.	JOB No. <u>19-146</u>
			UPSALA DRIVE	DRAINAGE	MPROVEMENTS	
PROJECT NAME			UPSAL	DRJ	IMPRO	
PROJECT NAME	ELA	A	UPSAL OF	CC	IMPRO	
				CC	TLE	

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w	– w ———	- w	- w

CENTER LINE GAS LINE OVERHEAD POWER LINE SANITARY SEWER STORM DRAIN WATER LINE



		POINT	TABLE			
POINT #	DESCRIPTION	GRID NORTHING	GRID EASTING	GROUND NORTHING	GROUND EASTING	ELEVATION (
5000	(H-15)FOUND NAIL WITH SHINER (TXDOT CONTROL)	10619935.451	464137.680	10622388.6570	464244.8960	3940
102	SET "X" ON CURB	10621782.511	461507.796	10624236.1430	461614.4050	
	TEXAS VRS NETWORK BASE STATION ELMK_	10649688.92	437691.59	10652149.00	437792.69	3882

N:\G COMPUTER\SPARKS DRAINAGE\SPARKS DRAINAGE.dw

TOPOGRAPHIC SURVEY

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CLEMSON DRIVE AND UPSALA DRIVE, FROM SPARKS DRIVE TO GRAND RIVER DRIVE. EL PASO COUNTY, TEXAS,

GENERAL NOTES

- LOCATION OF ALL UTILITIES SHOWN ON THIS PLAN ARE APPROXIMATE. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO CONTACT ALL UTILITY COMPANIES FOR THE EXACT LOCATION OF UNDERGROUND AND OVERHEAD UTILITIES INCLUDING UTILITIES NOT SHOWN ON PLANS. THE CONTRACTOR SHALL PROTECT ALL EXISTING UNDERGROUND AND OVERHEAD UTILITIES AND ANY UTILITIES NOT SHOWN THIS PLAN DURING CONSTRUCTION. THE CONTRACTOR WILL PERFORM ALL UTILITY INSTALLATION. REMOVAL AND RELOCATION'S AS DEEL OCAL
- UTILITY INSTALLATION. REMOVAL AND RELOCATION'S AS PER LOCAL UTILITY CONSTRUCTION SPECIFICATIONS.
- CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL DIMENSIONS, CONDITIONS, AND ELEVATIONS ON SITE AND SHALL CONTACT THE DESIGN ENGINEER AND REPORT ANY DISCREPANCIES, OMISSIONS
- AND/OR ERRORS ON PLANS PRIOR TO COMMENCING WORK.
- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE COUNTY OF EL PASO STANDARD SPECIFICATIONS AND DETAILS. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL PERMITTING NECESSARY FOR EARTHWORK OPERATIONS.
- CONTRACTOR SHALL COORDINATE RELOCATION OF ALL EXISTING
- UTILITIES AND MANHOLE WITH RESPECTIVE UTILITY COMPANIES. CONTRACTOR SHALL PERFORM ALL EARTHWORK REQUIREMENTS AS PER GEOTECHNICAL STUDY REPORT.
- A CALL WAS PLACED TO TEXAS DIG SAFE NUMBER (811) TO ACQUIRE LINE-SPOTS. CONFIRMATION NUMBER IS 1984047848.

SURVEY NOTES

- COORDINATES ARE DERIVED FROM THE APPLICATION OF RTK OBSERVATION, EL PASO RTK NETWORK, NAD83 TEXAS STATE PLANE COORDINATE SYSTEM OF 1983 (1993 ADJUSTMENT) CENTRAL ZONE, (4203) WITH VALUES IN U.S. SURVEY FOOT. DISTANCES ARE GROUND AND MAY BE CONVERTED TO GRID BY DIVIDING BY 1.000231.
- THESE NAVD 88 ELEVATIONS WERE DERIVED FROM APPLICATION OF THE GEOID 2012A MODEL TO RTK CO-OP ELLIPSOID HEIGHTS (ACCURACY ± 0.16') THIS PROPERTY MAY BE SUBJECT TO EASEMENTS WHETHER OF RECORD OR NOT. NO ADDITIONAL RESEARCH WAS PERFORMED BY B&A INC. FOR
- ANY RESERVATION, BUILDING LINE, AND OR EASEMENTS WHICH MAY OR MAY NOT AFFECT SUBJECT PARCEL. THE SURVEYOR MAKES NO GUARANTEE THAT THE UNDERGROUND UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDONED. THE SURVEYOR FURTHER DOES NOT WARRANT THAT THE UNDERGROUND UTILITIES ARE IN THE EXACT LOCATION INDICATED. THEY ARE LOCATED AS ACCURATE AS POSSIBLE FROM INFORMATION AVAILABLE. THE SURVEYOR HAS NOT PHYSICALLY LOCATED THE UNDERGROUND UTILITIES.

BENCHMARK H-15

FOUND NAIL WITH SHINER ON CENTER LINE OF CAMELDALE DRIVE, (See coordinates below) ELEVATION: 3940.68 (NAVD 88 DATUM) (TxDOT CONTROL) (POINT #5000)

DUST AND EROSION CONTROL NOTE

CONTRACTOR SHALL MAKE PROVISIONS FOR TEMPORARY DUST AND EROSION CONTROL WHERE EXTENSIVE DIRT OR DUST OPERATIONS ARE PERFORMED. USE WATER SPRINKLING AND OTHER METHODS TO LIMIT DUST AND DIRT MIGRATION. COMPLY WITH GOVERNING REGULATIONS PERTAINING TO ENVIRONMENTAL PROTECTION.

- BEFORE YOU DIG _
- EL PASO ELECTRIC COMPANY
- AT & T

SPECTRUM

TEXAS GAS SERVICE

SOUTHERN UNION GAS COMPANY EMERGENCY HOT LINE

TEXAS EXCAVATION SAFETY SYSTEM

1-877-213-1053 PUBLIC SERVICE BOARD (WATER&SEWER)

CALL

(915) 544-6300 562-8411/562-2003 (915) 594–5500 1-833-267-6094 1-800-959-5325

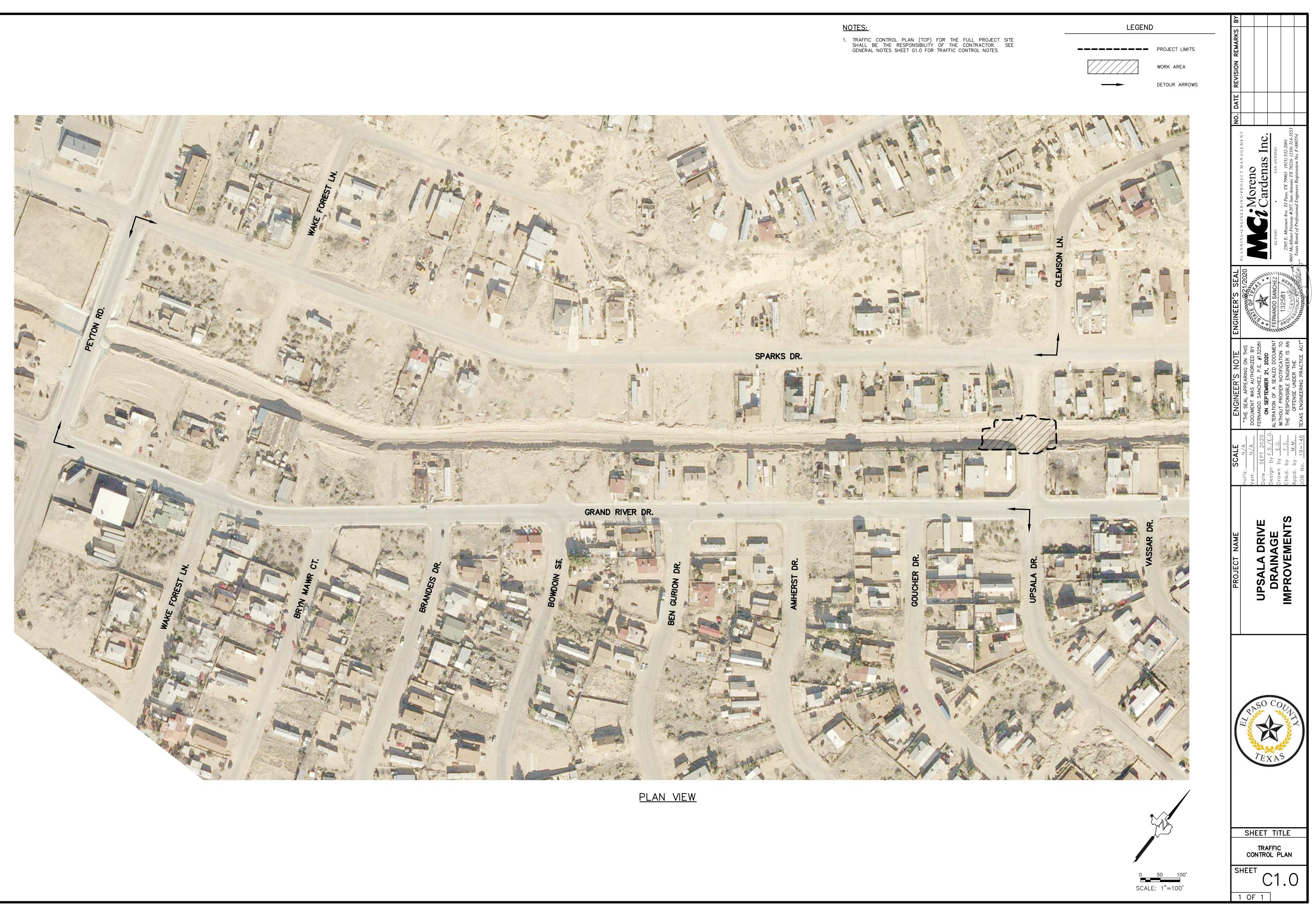
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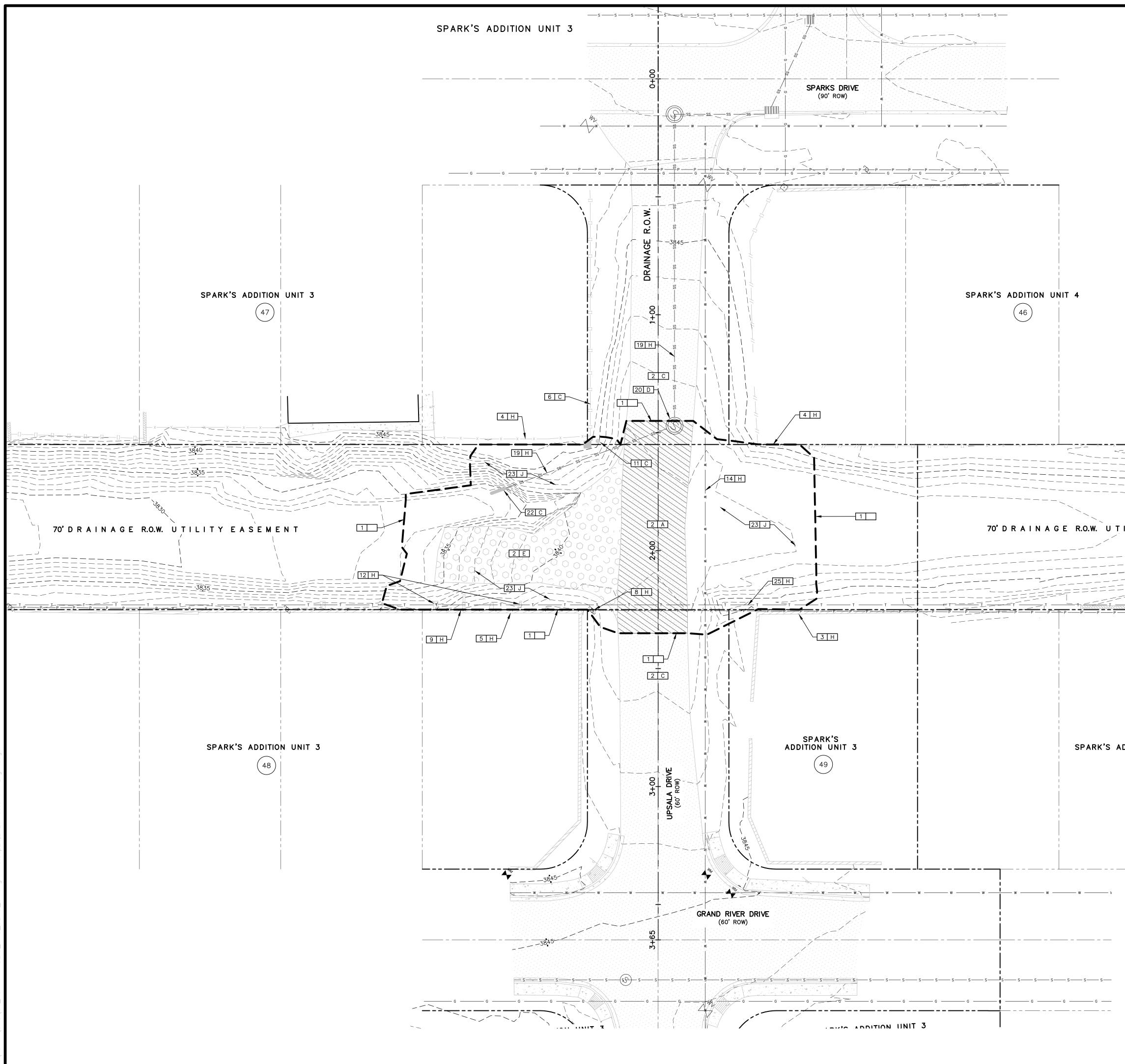
811 HORIZON REGIONAL MUNICIPAL UTILITY DISTRICT (915) 852–3917

PROJECT NAME

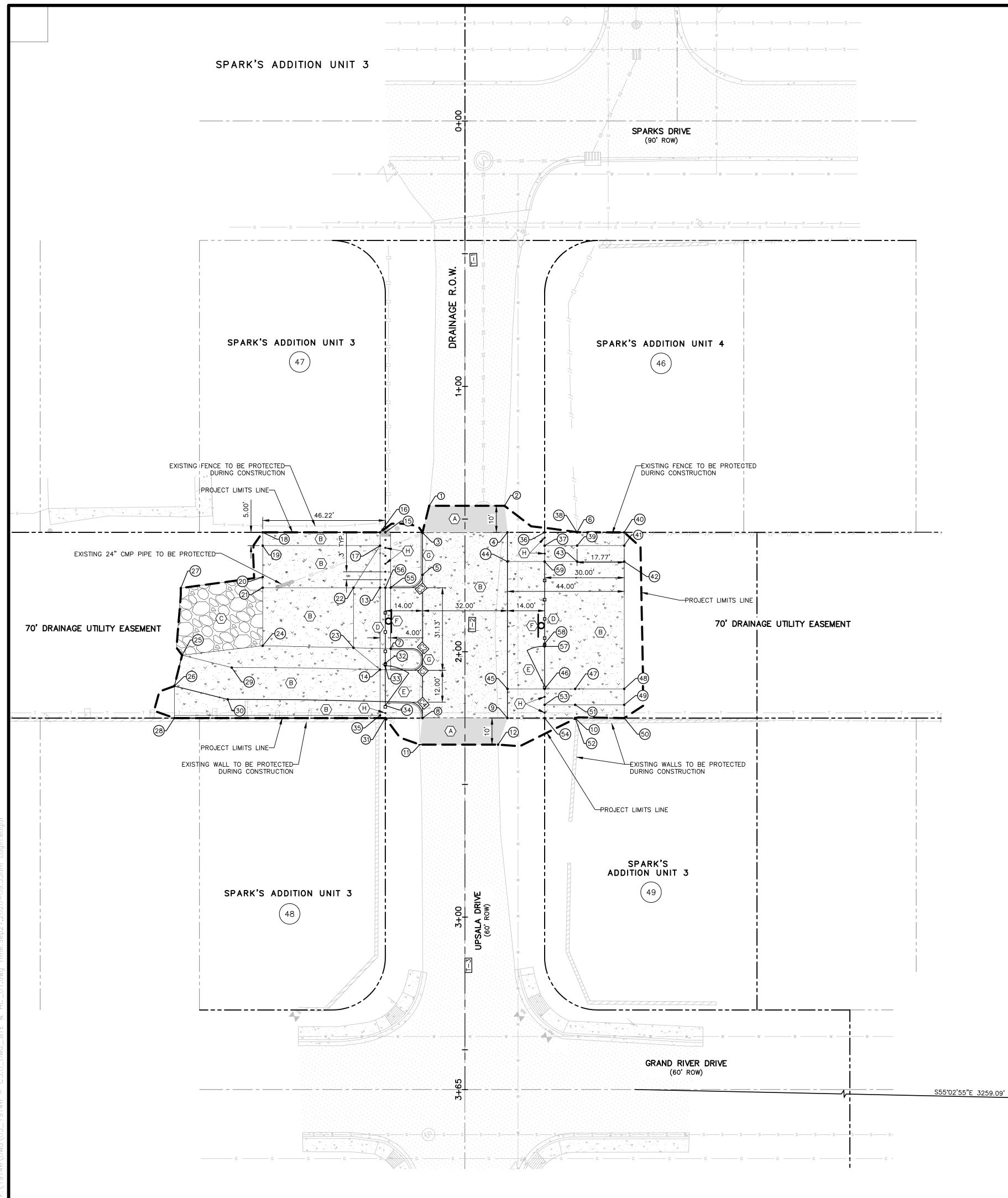
SPARKS DRAINAGE







	KEYED LEGEND	B S
		REMARKS
	— – – – – – – – – – STATIONING AND PROPOSED GRADE CENTERLINE	
	EXISTING RIGHT-OF-WAY	REVISION
	- — — — 3XXX — — — EXISTING MAJOR CONTOUR	REV
	$ 3 \times \times \times -$ EXISTING MINOR CONTOUR	DATE
	EXISTING PAVEMENT TO BE REMOVED	ÖN NAMA
	EXISTING PAVEMENT TO BE REMAIN UNDISTURBED	 E R I N G • P R O J E C T M A N A G E M E N T Moreno Moreno SAN ANTONIO ve. El Paso, TX 79903 (915) 532-2091 ve. El Paso, TX 79903 (915) 532-2091 ve. El Paso, TX 79903 (915) 532-2091
	PPP EXISTING OVERHEAD ELECTRIC LINE	M A N A G E as I v ANTONIO v ANTONIO v 210 222- 200 No. F-
	w W EXISTING DOMESTIC WATER LINE	JE CT MANA CDO SAN ANTC SAN ANTC 79903 (915) 5 tio TX 78216 (Registration N
	sss EXISTING SANITARY SEWER LINE	G • P R O J E C T COTEN arder aso, TX 79903 m Antonio TX agineers Registr
	ssss EXISTING STORM SEWER LINE	e. El Paris
	G G C EXISTING GAS LINE	N G I N E Souri Av
		N I N G • E N G I EL PASO 05 E. Missouri Board of Prof
	KEYED NOTES	PLANNING•ENGINEERING•PROJECT MANAGEMENT PLANNING•ENGINEERING•PROJECT MANAGEMENT PLANG SANDORCHON ELPASO SAN ANTONIO 2505 E. Missouri Ave. El Paso, TX 79903 (915) 532-2091 9601 McAllister Freeway #207, San Antonio TX 78216 (210) 314-3553 Texas Board of Professional Engineers Registration No. F-000554
	00 1 LIMITS OF DEMOLITION, SAW-CUT EXISTING PAVEMENT/SIDEWALK	
	2 EXISTING CONCRETE / ASPHALT PAVEMENT STRUCTURE 3 EXISTING ROCKWALL	SEAL SEAL
	4 EXISTING CHAINLINK FENCE 5 EXISTING CINDER BLOCK WALL	R'S 0 SANO
	6 EXISTING WOODEN FENCE 7 EXISTING SIGN	ENGINEER
	8 EXISTING POWER POLE 9 EXISTING OVERHEAD POWER LINE	
	10 EXISTING GUY WIRE	
	12 EXISTING CONCRETE	
	13 EXISTING BUILDING 14 EXISTING WATERLINE 15 EXISTING WATER METER	S S Z RING Z, P.E ALED OTIFIC OTIFIC OTIFIC
	15 EXISTING WATER METER 16 EXISTING WATER VALVE 17 EXISTING CANITADX CEWED LINE	
	17 EXISTING SANITARY SEWER LINE 18 EXISTING SANITARY SEWER MANHOLE	
	19 EXISTING STORM SEWER LINE 20 EXISTING STORM SEWER MANHOLE	ENGI ENGI "THE SEA DOCUMENT FERNANDO ON SE ON SE ON SE ON SE ON SE OFEE THE RESPO
	21 EXISTING STORM SEWER INLET 22 EXISTING 24" DIA. CMP PIPE	
TILITY EASEMENT	23 CLEAR AND GRUB 24 EXISTING GAS LINE	LE NOTE NOTE NOTE NOTE NOT 20:
	25 EXISTING TELECOMMUNICATION LINE	SCA SCA AS SEP I No. Jy No. Jy
	A REMOVE AND REPLACE B REMOVE AND RELOCATE	Horiz.
	B REMOVE AND RELOCATE C REMAIN UNDISTURBED D ADJUST TO NEW GRADE	
	E REMOVE AND PROPERLY DISPOSE OF	
P P	F REMOVE AND SALVAGE G PROTECT AND COORDINATE WITH EL PASO ELECTRIC COMPANY	
	H PROTECT AND REMAIN UNDISTURBED I REMOVE BY OTHERS	
	J CLEAR AND GRUB	
	1. ALL DEMOLITION WORK SHALL BE KEPT WITHIN THE EXISTING RIGHT-OF-WAY UNLESS OTHERWISE SPECIFIED ON PLANS.	PROJECT PSALA DRAIN PROVE
		ID B
ADDITION UNIT 4		
(49)		
		RASO COUL
		TEXAS
*		
513		
		SHEET TITLE
0 10' 20'		DEMOLITION PLAN
SCALE: 1"=20'		SHEET
		C2.0
		1 OF 1

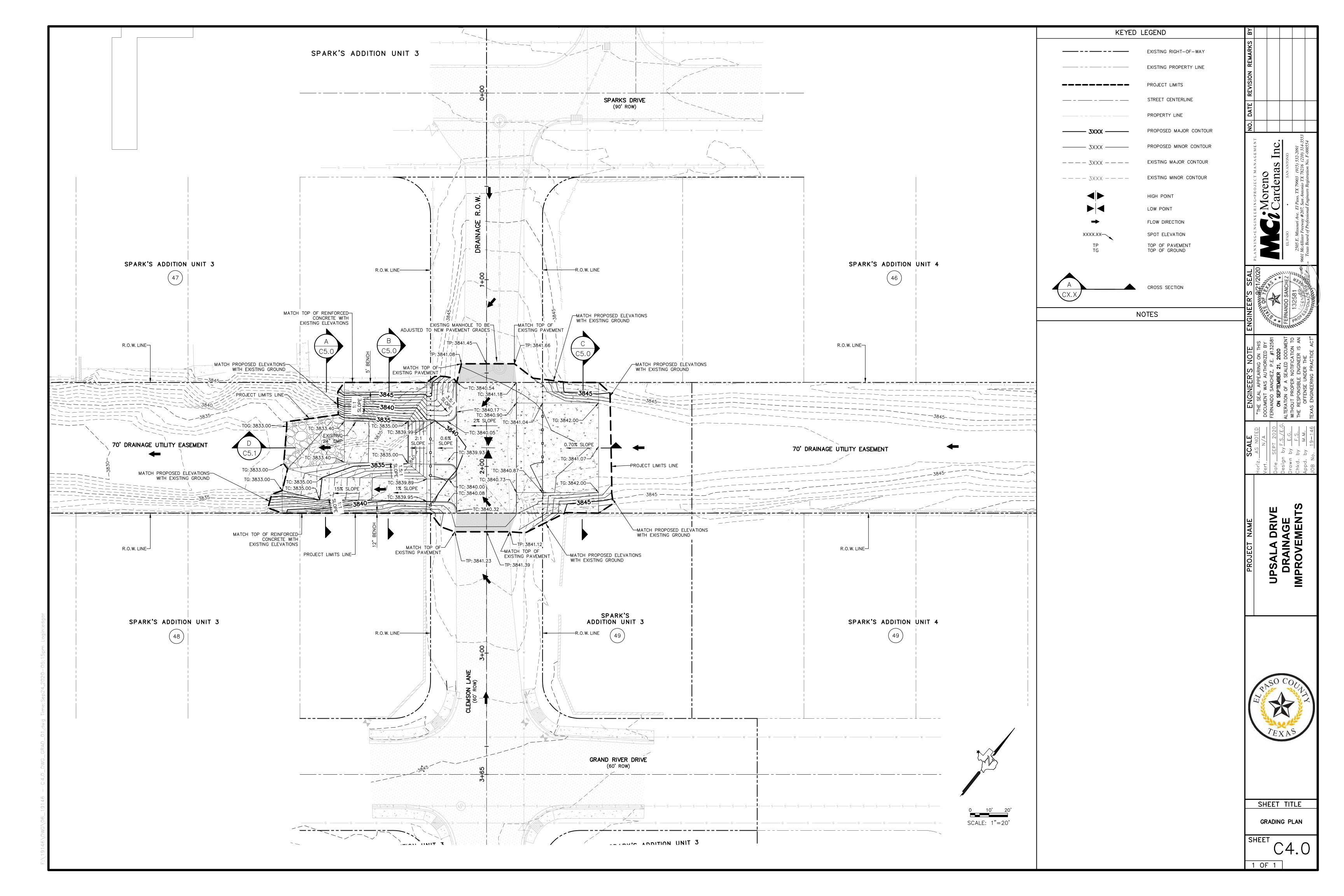


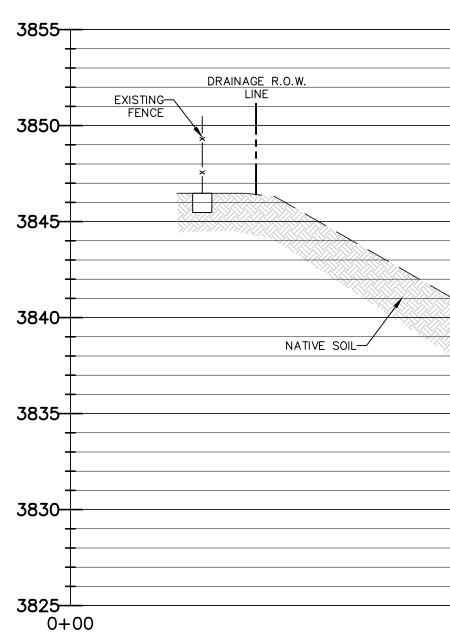
POINT NO.	Image:
2 3 4 5 6 7 8 9 10	TIE TO EXISTING PAVEMENT NEW TOP OF MONOLITHIC CURB NEW TOP OF REINFORCED CONCRETE PAVEMENT NEW TOP OF MONOLITHIC CURB NEW WIRE BARRIER FENCE NEW TOP OF MONOLITHIC CURB
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10	NEW TOP OF REINFORCED CONCRETE PAVEMENT
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	TIE TO EXISTING PAVEMENT
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15	NEW WIRE BARRIER FENCE
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18	NEW TOP OF REINFORCED CONCRETE
19	NEW TOP OF REINFORCED CONCRETE
20	NEW LOOSE ROCK RIP-RAP
21	NEW BOTTOM OF REINFORCED CONCRETE
22	NEW BOTTOM OF REINFORCED CONCRETE
23	NEW BOTTOM OF REINFORCED CONCRETE
24	NEW BOTTOM OF REINFORCED CONCRETE
25	NEW BOTTOM OF REINFORCED CONCRETE RAMP
26	NEW BOTTOM OF REINFORCED CONCRETE RAMP
27	NEW LOOSE ROCK RIP-RAP
28	TOP OF NEW REINFORCED CONCRETE
29	NEW TOP OF REINFORCED CONCRETE RAMP
30	NEW TOP OF REINFORCED CONCRETE RAMP
31	NEW TOP OF REINFORCED CONCRETE
32	NEW GUARD RAIL
33	NEW METAL SWING GATE
34	NEW METAL SWING GATE
35	NEW TOP OF REINFORCED CONCRETE
36	NEW BOTTOM OF REINFORCED CONCRETE
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51	NEW TOP OF REINFORCED CONCRETE
52	NEW TOP OF REINFORCED CONCRETE
53	NEW BOTTOM OF REINFORCED CONCRETE
54	NEW BOTTOM OF REINFORCED CONCRETE
55	NEW TOP OF MONOLOTHIC CURB
56	NEW GUARD RAIL
57	NEW METAL SWING GATE
58	NEW GUARD RAIL
59	NEW GUARD RAIL

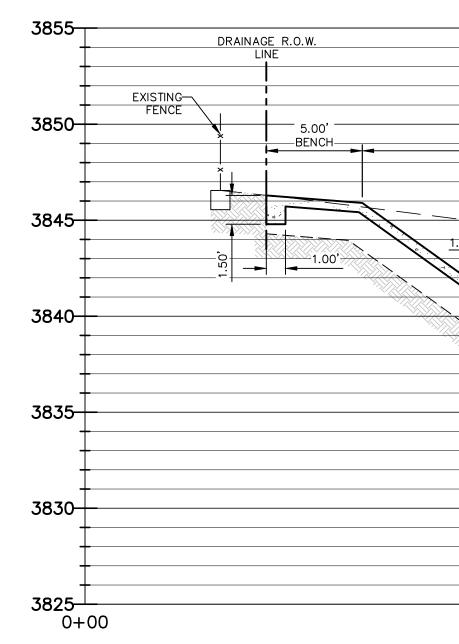
L	LINE DATA TABLE						
LINE ID	LENGTH	BEARING					
T—1	105.06	S40°08'51.15"E					
T-2	170.02	S37° 21' 44.58"E					
T-3	90.01	S39° 17' 27.56"E					

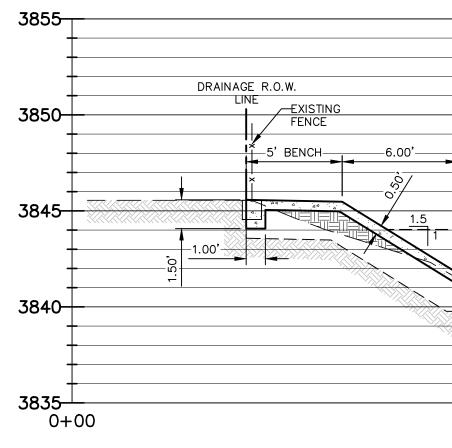
			CURVE D	ράτα τ	ABLE	
CURVE ID	LENGHT	RADIUS	TANGENT	DELTA	CHORD DI	
C1	6.37	4.00	4.09	91.28	S6° 59'	
C2	6.28	C2 6.28	4.00	4.00	90.00	S83° 38'
C3	7.85	5.00	5.00	90.00	N6° 21'	
C4	7.74	5.00	4.89	88.72	S83° 00'	

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HORIZONTAL CONTROL TABLE				KEYED LEGEND		
DESCRIPTION	NORTHING	EASTING			RK S	
TIE TO EXISTING PAVEMENT	10624419.15	461425.74	1 00	PROJECT LIMITS	EMARKS	
TIE TO EXISTING PAVEMENT	10624436.86	461447.90		- STATIONING AND PROPOSED GRADE CENTERLINE	8	
NEW TOP OF MONOLITHIC CURB	10624409.65	461430.16		- EXISTING RIGHT-OF-WAY	EVISION	
EW TOP OF REINFORCED CONCRETE PAVEMENT	10624429.74	461455.01			E	
NEW TOP OF MONOLITHIC CURB	10624397.25 10624446.11	461440.01 461475.49		NEW HMAC PAVEMENT		
NEW WIRE BARRIER FENCE	10624368.04	461448.00			DATE	
NEW TOP OF MONOLITHIC CURB	10624355.09	461473.71		CONTINUOUSLY REINFORCED CONCRETE PAVEMENT &		
W TOP OF REINFORCED CONCRETE PAVEMENT	10624375.08	461498.71		REINFORCED CONCRETE	ŶŶ	
NEW WIRE BARRIER FENCE	10624391.01	461518.63		$\overline{(2)}$	E	33533
TIE TO EXISTING PAVEMENT	10624346.66	461479.17	(c) 0000000	NEW 8–12 INCH LOOSE ROCK	E N B B	2091 314- 00055
TIE TO EXISTING PAVEMENT	10624365.06	461502.19			Δ G.E.	
EW TOP OF REINFORCED CONCRETE TOE WALL	10624383.48	461430.53	(D)00	NEW GUARD RAIL) V V	Noreno Joreno San Antonio TX 79216 (2 Engineers Registration No.
EW TOP OF REINFORCED CONCRETE TOE WALL	10624359.37	461449.81			E C	SAN
NEW WIRE BARRIER FENCE	10624401.01	461419.08 461417.52		5	PROJE	oren arden Antonio 72 intees Regis
NEW TOP OF REINFORCED CONCRETE	10624395.86	461420.64		NEW METAL SWING GATE	а•с	aso, an At
NEW TOP OF REINFORCED CONCRETE	10624372.15	461382.97		\frown	E R I N	
NEW TOP OF REINFORCED CONCRETE	10624368.25	461386.10	F -	NEW NO TRESPASSING SIGN	N N	EL PASO EL PASO 5 E. Missouri Ave. El Allister Freeway #207, Board of Professional
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NEW BOTTOM OF REINFORCED CONCRETE	10624377.24			\sim	Z	E E McA McA
NEW BOTTOM OF REINFORCED CONCRETE	10624359.55		Ю	NEW METAL GUARD POST	PLA	
NEW BOTTOM OF REINFORCED CONCRETE	10624338.77	461409.66		\bigcirc		000
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NEW LOOSE ROCK RIP-RAP	10624336.50	461372.00	1. FOUND NAIL WITH SHINER (ON CENTERLINE OF CAMELDALE DRIVE.		ANCH ANCH
TOP OF NEW REINFORCED CONCRETE	10624296.72	461400.69	ELEVATION 3940.68' (NAVD TxDOT CONTROL POINT #50	88) 000	R'S	VAL SERVICE
NEW TOP OF REINFORCED CONCRETE RAMP	10624325.07	461405.67			ENGINEER	13 13 13 13
NEW TOP OF REINFORCED CONCRETE RAMP	10624314.77	461411.99			U U	STS + + B
NEW TOP OF REINFORCED CONCRETE	10624346.35	461462.77			Z Ш	NIN INTERNET
NEW GUARD RAIL	10624362.53	461449.84				HIS BY 2581 2581 4 TO 5 AN ACT"
NEW METAL SWING GATE	10624361.73	461450.44			Ш	$F \longrightarrow O \supset G \supseteq $
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NEW TOP OF REINFORCED CONCRETE	10624421.14	461461.88			CAL	
NEW TOP OF REINFORCED CONCRETE	10624383.67	461491.84			Ň	
NEW BOTTOM OF REINFORCED CONCRETE	10624392.41	461502.77				Horiz. Vert Date Drawr Chkd. Appd. JOB N
NEW BOTTOM OF REINFORCED CONCRETE	10624399.60 10624411.14	461511.77 461526.20			\vdash	
NEW TOP OF REINFORCED CONCRETE	10624406.46					
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NEW TOP OF REINFORCED CONCRETE	10624391.01	461518.63				>↓
NEW BOTTOM OF REINFORCED CONCRETE	10624387.72	461506.52			NAME	LA DRIVE NNAGE VEMENTS
NEW BOTTOM OF REINFORCED CONCRETE	10624383.82	461509.64			Ž	ΩĂΣ
NEW TOP OF MONOLOTHIC CURB	10624385.98				5	₹ Ľ ሢ
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NEW GUARD RAIL	10624429.88					UPS, DF MPR
		J				
EXISTING CONTROL DATA TABI	F					
POINT NO. DESCRIPTION NORTHING						
EB-1 EXISTING BENCHMARK 10622388.66					\vdash	
LINE DATA TABLE	7					
LINE ID LENGTH BEARING	1					
T-1 105.06 S40°08'51.15"E						
T-2 170.02 S37° 21' 44.58"E						
T-3 90.01 S39° 17' 27.56"E					-	
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CURVE DATA TABLE						
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		L'W				SHEET TITLE
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						HORIZONTAL CONTROL
		/			SL	IFFT
		0 <u>10'2</u> 0'			ן ר	°°° C3.0
		SCALE: 1"=20'			1	OF 1

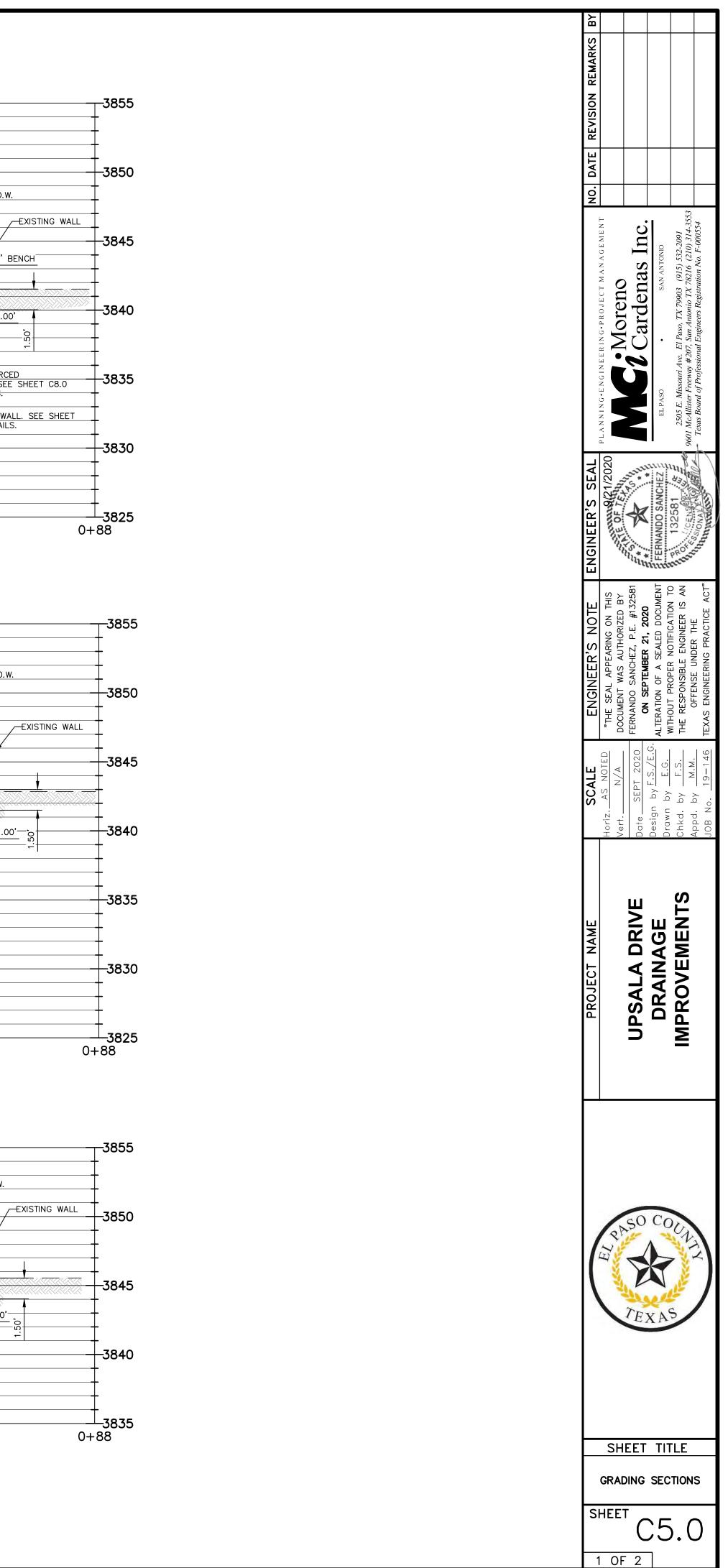








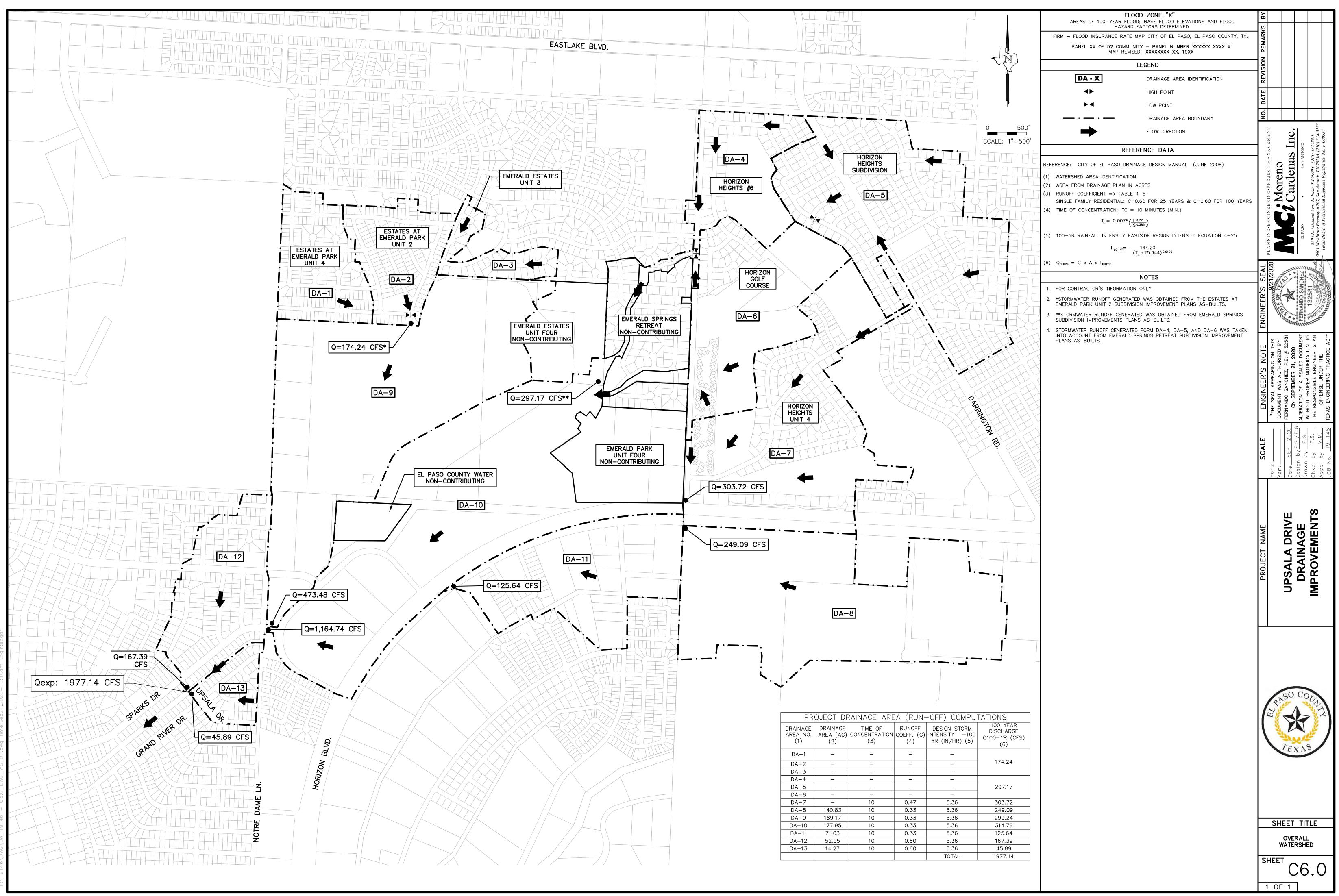
							DRAIN	IAGE R.C LINE
-EXISTING GROUND TO REMAIN UNDISTURBED				6.94' > <	12.00' ACCESS ROAD		6.00'	
NEW 8"-12" LOOS		OXIMATE EXISTING GROUND- HIGH WATER ELEV.=3835.50			NEW REINFORCED CONCRETE RAMP		CON	REINFO CRETE. S DETAILS
	COMPACT TO A OF 95% OF MA	A MINIMUM XIMUM DRY R ASTM D1557		1.00'	NEW REINFORCED CONCRETE. SEE SHEET C8.0 FOR DETAILS.	OF 95%	NEW 2 C8.0 F T TO A MINIMUM OF MAXIMUM DRY AS PER ASTM D1:	4" END OR DET,
		SCALE: HOR	TION IZONTAL 1"=5 /ERTICAL 1"=5	5' 5'				
15.85' > <	22	2.41'		_8.00'	12.00' ACCESS ROAE) >	5.71'	NAGE R.C
	APPROXIMATE EXIS	STING GROUND		, , , , , , , , , , ,	NEW REINFORCE CONCRETE RAMP SEE SHEET C8.0 FO DETAILS	2		
	NEW REINFORCED CONCRETE. SEE SHEET C8.0 FOR DETAILS.	HIGH WATER ELEV.=3835.50						
		COMPACT TO A MINIMUM DF 95% OF MAXIMUM DRY DENSITY AS PER ASTM D1557			24" END WALL			
			TION					
		C5.0 SCALE: HOR	IZONTAL 1"=: /ERTICAL 1"=:	5,				
		-48.00'				6.00'	DRAINA L	GE R.O.V
NEW REIN CONCRET SHEET CA	E. SEE 3.1 FOR DETAILS.	HIGH WATER ELEV.=3844.03		MATE EXISTING GR	OUND	000 000 1.5		1.0
	COMP/ OF 95	ACT TO A MINIMUM % OF MAXIMUM DRY TY AS PER ASTM D1557		NEW 24" EN	ND WALL. C8.1 FOR DETAILS.			
		C SEC C5.0 SCALE: HOR	TION IZONTAL 1"=5 (ERTICAL 1"=5	5' 5'				

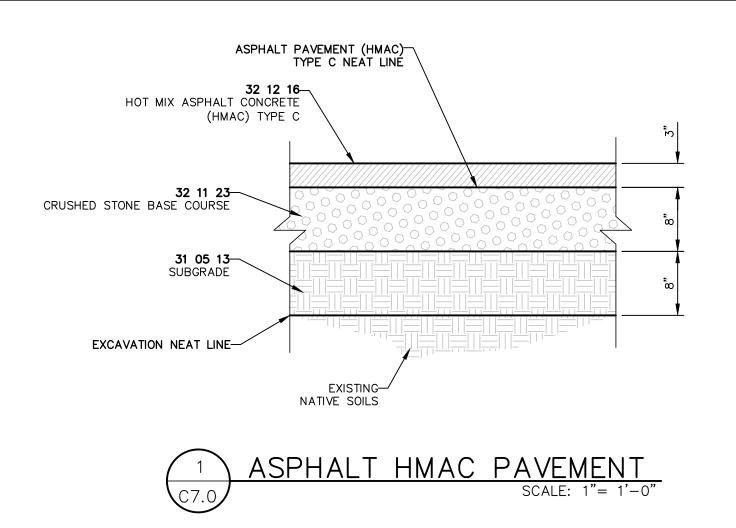


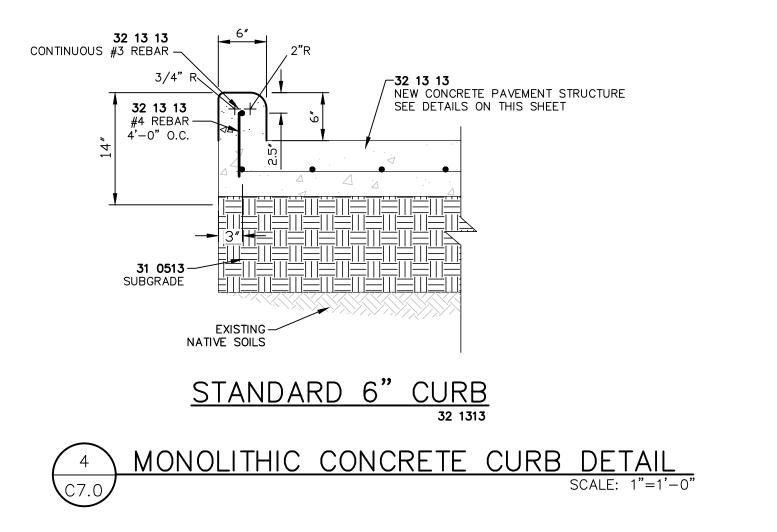
3865 | 3860 3855 3850 —31.70'— —34.22'—— 3845 NEW REINFORCED CONC 3840 MATCH PROPOSED GRADE NEW 8"-12" LOOSE WITH EXISTING GRADE ROCK RIP-RAP _____ ____ 3.80% SLOPE 3835 4.50% SLOPE -/ NEW END WALL 3830 3825 3820 3815 3810 0+00

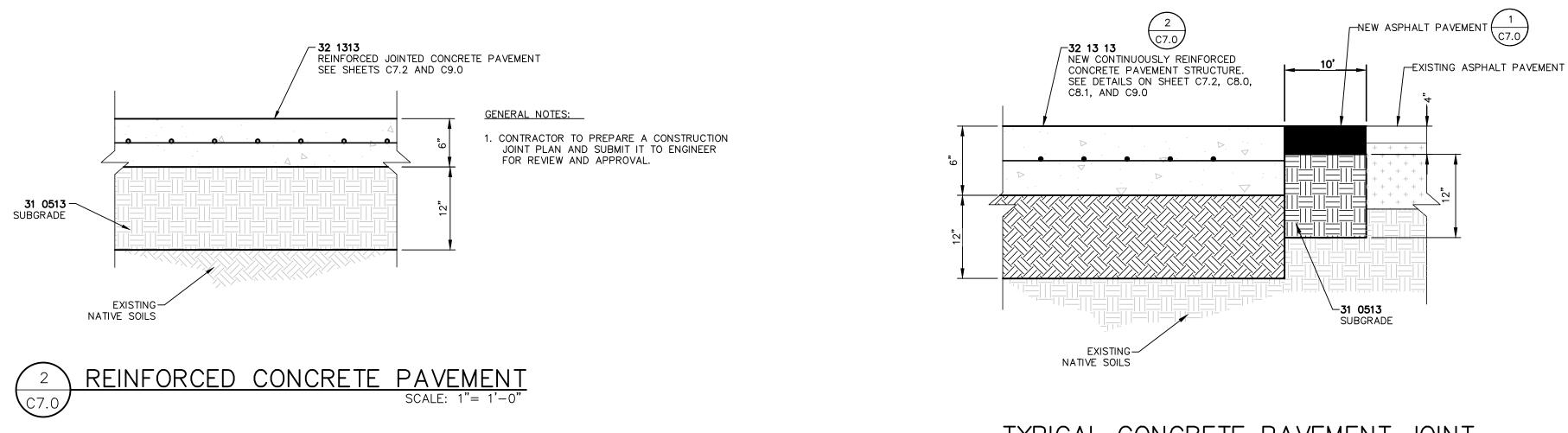
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RETE. TAILS. COMPACT TO A MOF 95% OF MAXI DENSITY AS PER		-32.00'-	APPROXIMATE EXISTING GROUND	-44.00'- -44.00'- 	MATCH EX 0.70% 0.70% NEW END W/ NEW END W/ DRY M D1557	<u>SLOPE</u>		Horiz. AS NOTED "THE SEAL APPEARING ON THIS Vert. N/A Vert. N/A Vert. N/A Date SEPT 2020 Design by F.S./E.G. PERNANDO SANCHEZ, P.E. #132581 Design by F.S./E.G. ON SEPTEMBER 21, 2020 Drawn by E.G. ATTERATION OF A SEALED DOCUMENT Appd. by M.M. THE RESPONSIBLE ENGINEER IS AN OFFENSE UNDER THE THE RESPONSIBLE ENGINEER IS AN
	D S	1+00 ECTION HORIZONTAL 1"=6' VERTICAL 1"=6'					3820 	UPSALA DRAIN/ IMPROVEI
								SHEET TITLE GRADING SECTIONS SHEET C5.1

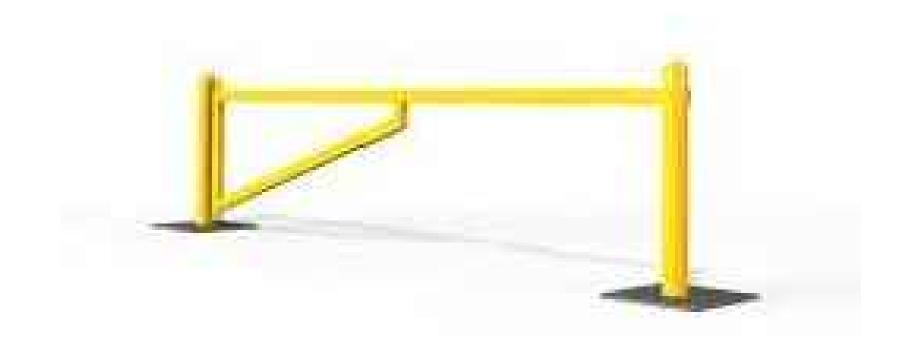




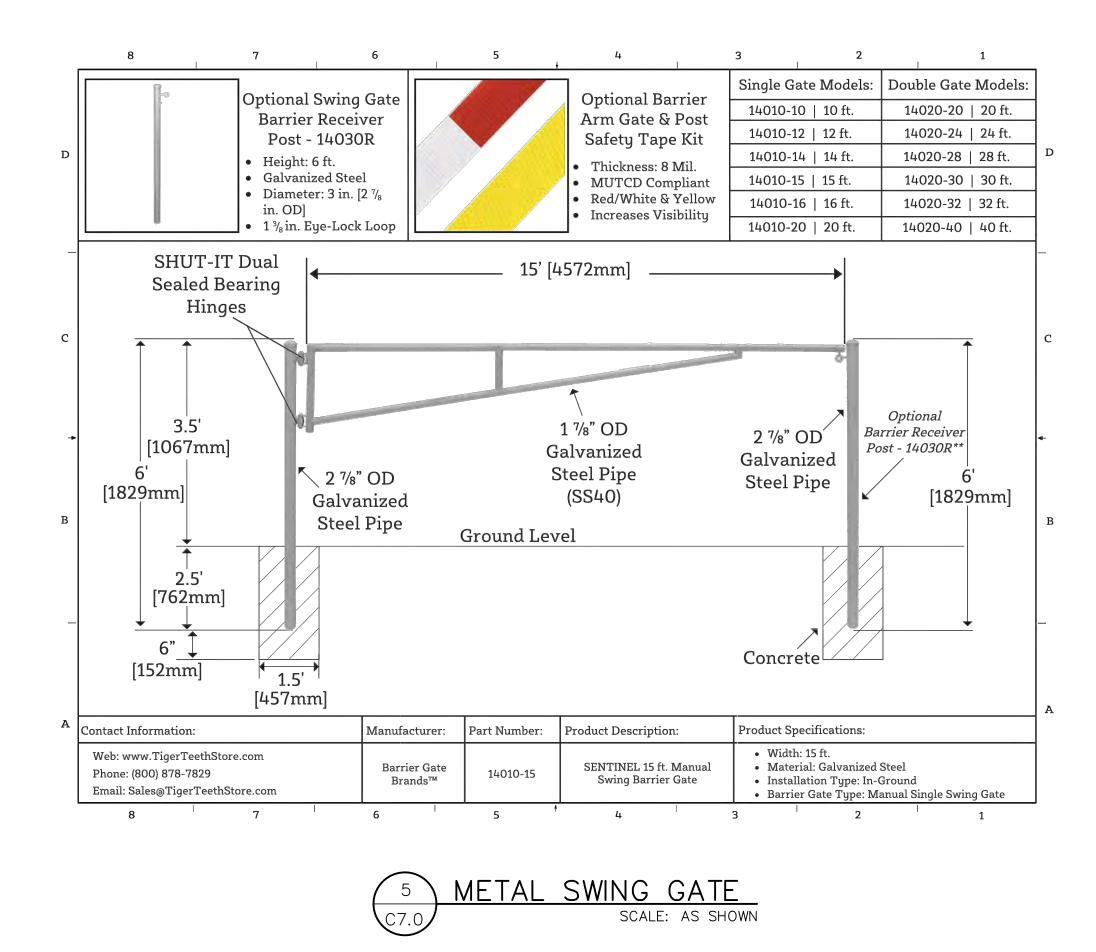








C7.C

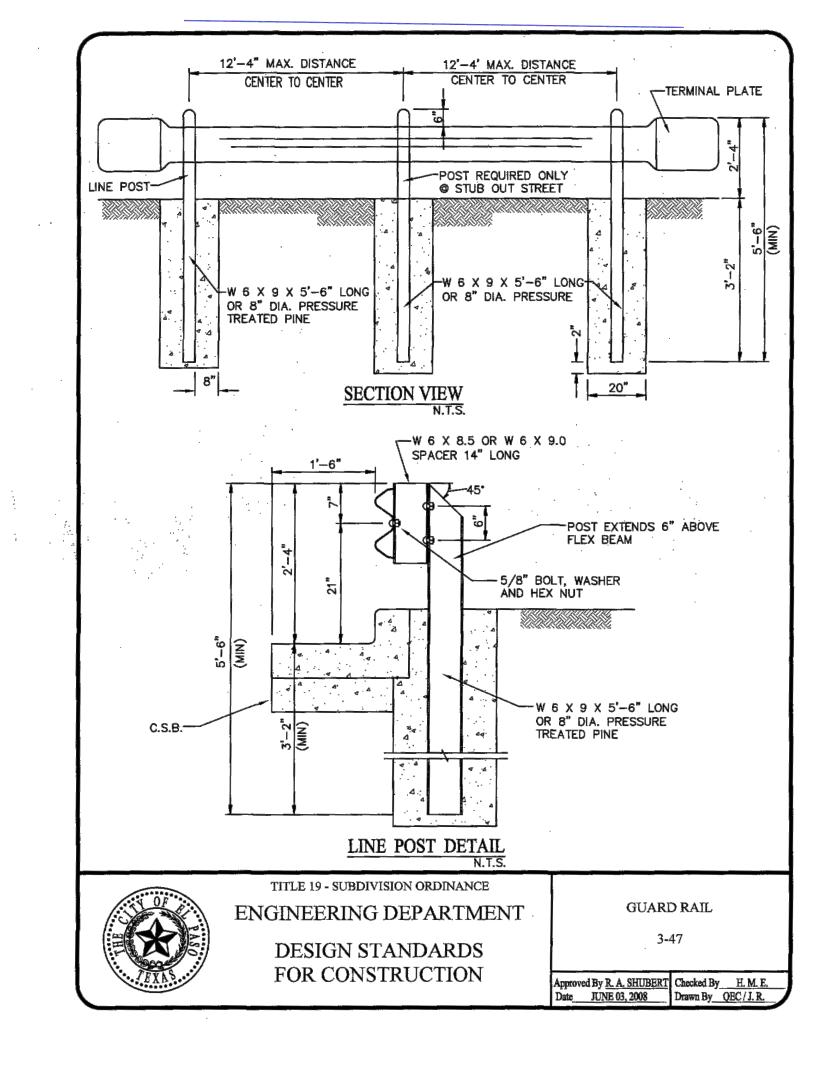


TYPICAL CONCRETE PAVEMENT JOINT <u>TO EXISTING ASPHALT PAVEMENT</u> SCALE: 1"=1'-0"

PASO 27	PROJECT NAME UPSALA DRIVE	Horiz. N/A Vert. N/A Date SEPT 2020	ENGINEER'S NOTE "THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY FERNANDO SANCHEZ, P.E. #132581 ON SEPTEMBER 21. 2020	ENGINEER'S SEAL	PLANNING FERING PROJECT MANAGEMENT Moreno Cardenas Inc.	NO. DATE REVISION REMARKS BY
CC	DRAINAGE	Design by <u>F.S./E.G</u> . Drawn by <u>E.G.</u>	ALTER	FERNANDO SANCHEZ	EL PASO • SAN ANTONIO	
UN	IMPROVEMENTS	Chkd. by F.S. Apped by M.M.	THE RESPONSIBLE ENGINEER IS AN	132581 / 2	2505 E. Missouri Ave. El Paso, TX 79903 (915) 532-2091 9601 McAllister Freeway #207, San Antonio TX 78216 (210) 314-3553	
A.V.		JOB No. <u>19-146</u>	TEXAS	ALL STON A FURTHING	 Texas Board of Professional Engineers Registration No. F-000554 	

<u>GENERAL NOTES:</u>

- 1. THE TYPE OF POST (STEEL POST) WILL BE AS SHOWN IN THE PLANS. THE EXACT POSITION OF MBGF SHALL BE SHOWN IN THE PLANS OR AS DIRECTED BY THE ENGINEER. STEEL POSTS TO BE GALVANIZED IN ACCORDANCE WITH "GALVANIZING SPEC."
- 2. RAIL ELEMENT SHALL MEET THE REQUIREMENTS OF SPEC NO. 05 53 00," METAL BEAM GUARD FENCE" EXCEPT AS MODIFIED IN THE PLANS. THE CONTRACTOR MAY FURNISH RAIL ELEMENTS OF 25'- 0", OR 12'- 6" (NOM.) LENGTHS. RAIL ELEMENTS MAY HAVE SLOTTED HOLES AT 3'-11/2" C-C OR 6'-3" C-C. A SPECIAL LENGTH OF RAIL MAY BE MANUFACTURED TO ACCOMMODATE THE DOWNSTREAM ANCHOR TERMINAL (DAT) AND THE TRANSITION SECTIONS OF GUARDRAIL.
- 3. BUTTON HEAD "POST" BOLTS (ASTM A307) SHALL BE OF SUFFICIENT LENGTH TO EXTEND THROUGH THE FULL THICKNESS OF THE NUT (ASTM A563) AND TYPE A (1 3/4" O.D.) WASHER AND NOT MORE THAN 1" BEYOND IT. BUTTON HEAD "SPLICE" BOLTS (ASTM A307) ARE 5/8" x 1 1/4" (OR 2" LONG AT TRIPLE RAIL SPLICES) WITH A 5/8" DOUBLE RECESSED NUT (ASTM A563). THRIE BEAM "CONNECTION" 7/8" DIA. (ASTM A325) HEX BOLTS SHALL BE OF SUFFICIENT LENGTH TO EXTEND THROUGH THE FULL THICKNESS OF THE RAIL, WASHERS, AND NUTS.
- 4. FITTINGS (BOLTS, NUTS, AND WASHERS) SHALL BE GALVANIZED IN ACCORDANCE WITH "GALVANIZING SPEC." FITTINGS SHALL BE SUBSIDIARY TO THE BID ITEM.
- 5. CROWN SHALL BE WIDENED TO ACCOMMODATE THE METAL BEAM GUARD FENCE.
- 6. THE LATERAL APPROACH TO THE GUARD FENCE, SHALL HAVE A MAXIMUM SLOPE OF 1V:10H.
- 7. IF SHOWN ELSEWHERE IN THE PLANS OR AS DIRECTED BY THE ENGINEER, THE GUARD FENCE MAY BE FLARED AT A RATE OF 25:1 OR FLATTER.
- 8. UNLESS OTHERWISE SHOWN IN THE PLANS, GUARD FENCE PLACED IN THE VICINITY OF CURBS SHALL BE POSITIONED SO THAT THE FACE OF CURB IS LOCATED DIRECTLY BELOW OR BEHIND THE FACE OF THE RAIL. RAIL PLACED OVER CURBS SHALL BE INSTALLED SO THAT THE POST BOLT IS LOCATED APPROXIMATELY 25 INCHES ABOVE THE GUTTER PAN OR EDGE OF SHOULDER.





9. IF SOLID ROCK IS ENCOUNTERED WITHIN 0 TO 18" OF THE FINISHED GRADE, DRILL A 22" DIA. HOLE, OR DRILL TWO 12" DIA. FRONT TO BACK OVERLAPPING HOLES, 24" INTO THE ROCK. IF SOLID ROCK IS ENCOUNTERED BELOW 18", DRILL A 12" DIA. HOLE, 12" INTO THE ROCK OR TO THE STANDARD EMBEDMENT DEPTH, WHICHEVER MAYBE LESS. ANY EXCESS POST LENGTH, AFTER MEETING THESE DEPTHS, MAY BE FIELD CUT TO ENSURE PROPER GUARDRAIL MOUNTING HEIGHT. BACKFILL WITH A COHESION LESS MATERIAL.

150 FT. RADIUS.

CONCRETE RAIL.

10. POSTS SHALL NOT BE SET IN CONCRETE, OF ANY DEPTH.

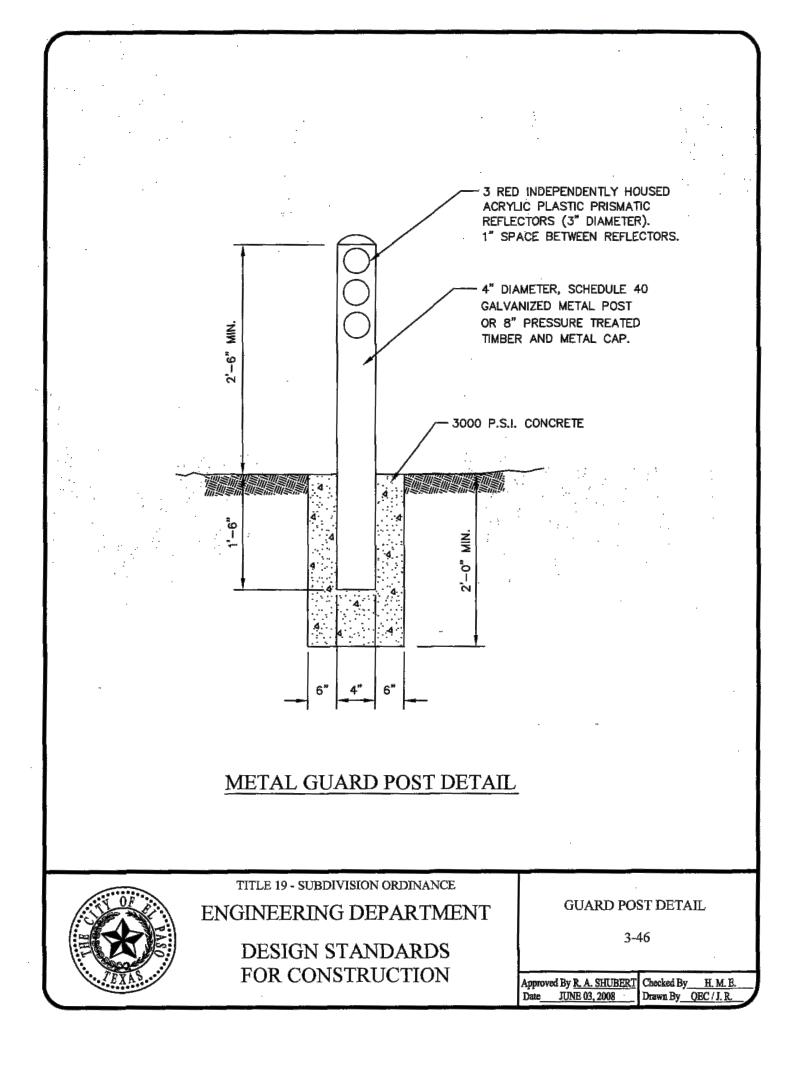
11. SPECIAL FABRICATION WILL BE REQUIRED AT INSTALLATIONS HAVING A CURVATURE OF LESS THAN

12. THE DETAIL SHOWN IS THE MINIMUM LENGTH OF NEED (LON) FOR A DAT CONNECTED TO A

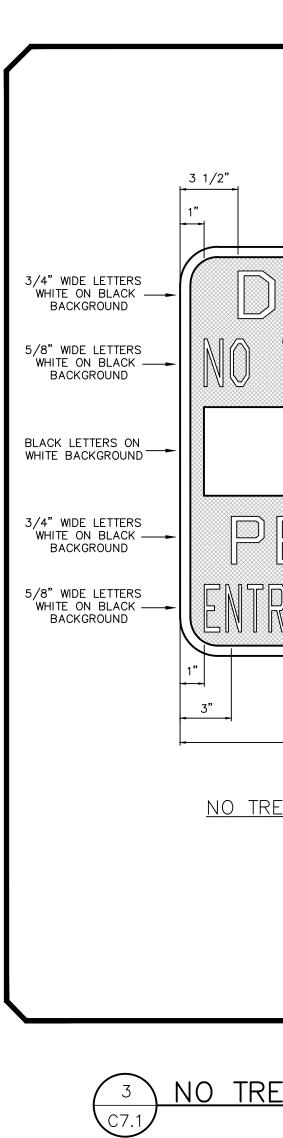
13. HALF ANGLE BRACKET. THE RAIL ELEMENT IS NOT ATTACHED TO THE END POST.

14. THE FOUNDATION TUBES SHALL NOT PROJECT MORE THAN 3 3/4" ABOVE THE FINISHED GRADE.

15. ALL HARDWARE FOR DAT SHALL BE ASTM A307 UNLESS OTHERWISE SHOWN.

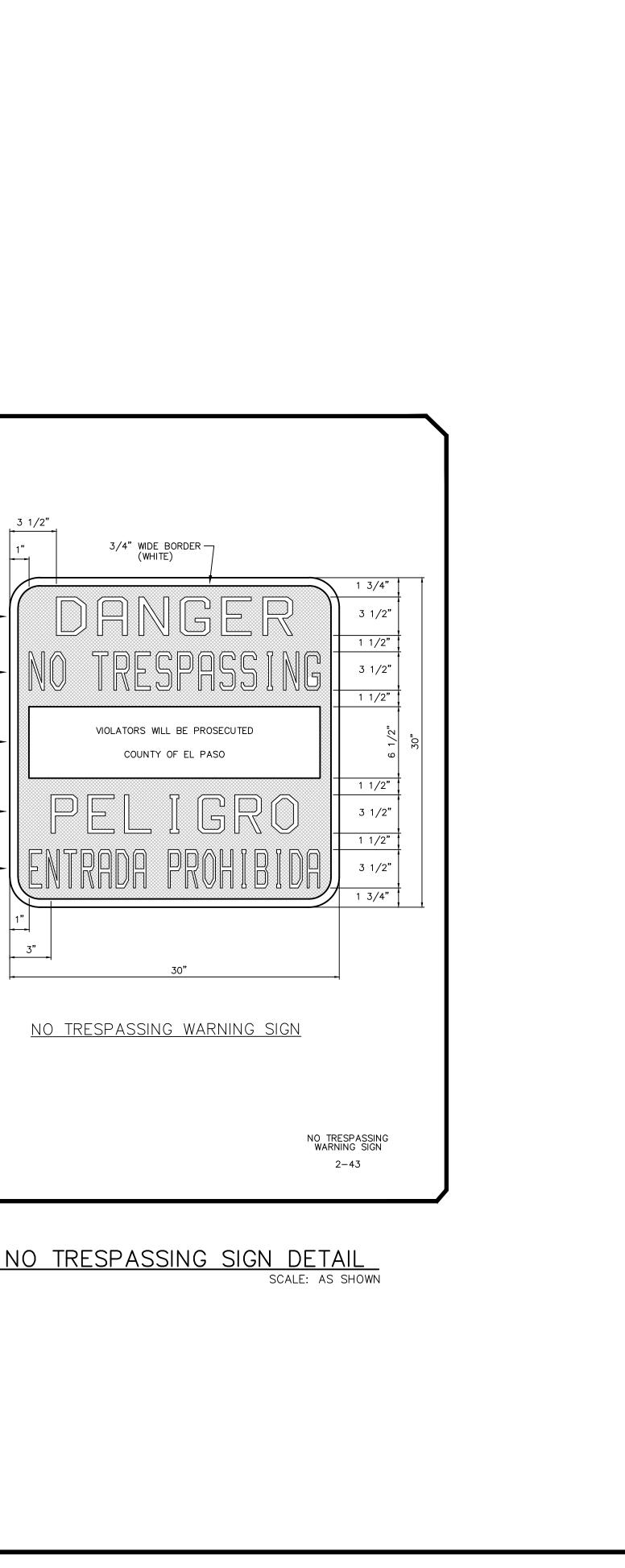




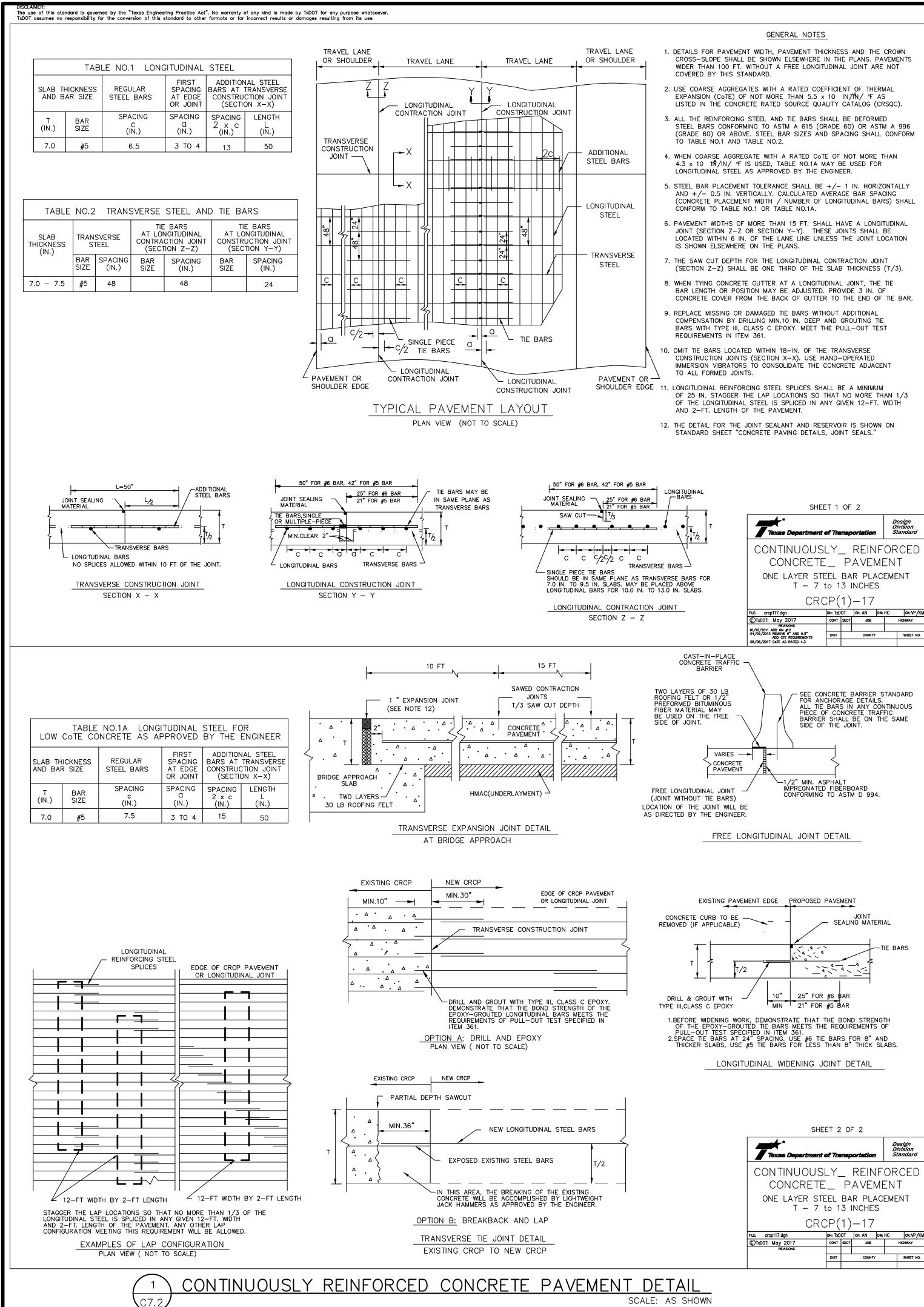


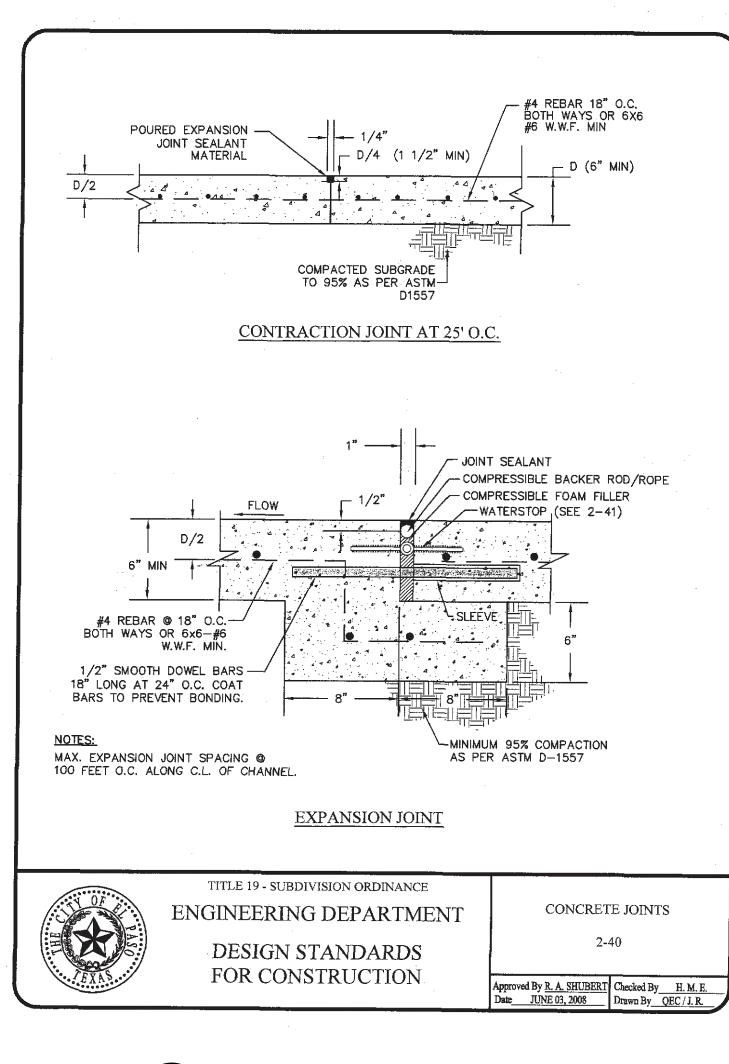
(WHITE)

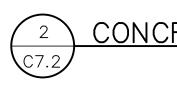
30"



PROJECT NAME SCALE ENGINEER'S NOTE ENGINEER'S SEAL Proj: N/A Poriz: N/A Proj: N/A Proj: N/A Poriz: N/A Proj: Poriz: N/A Poriz:	S BY					
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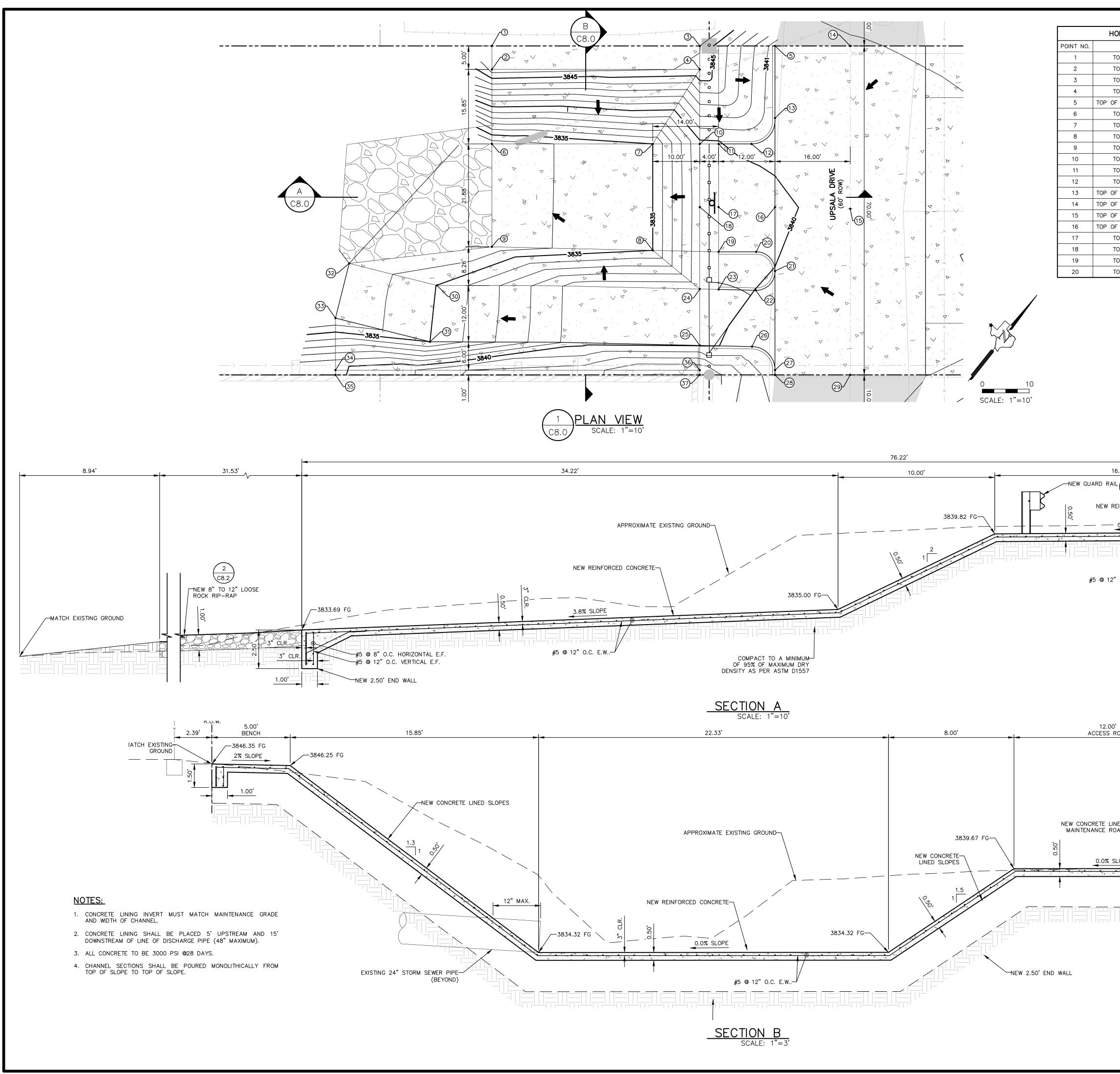






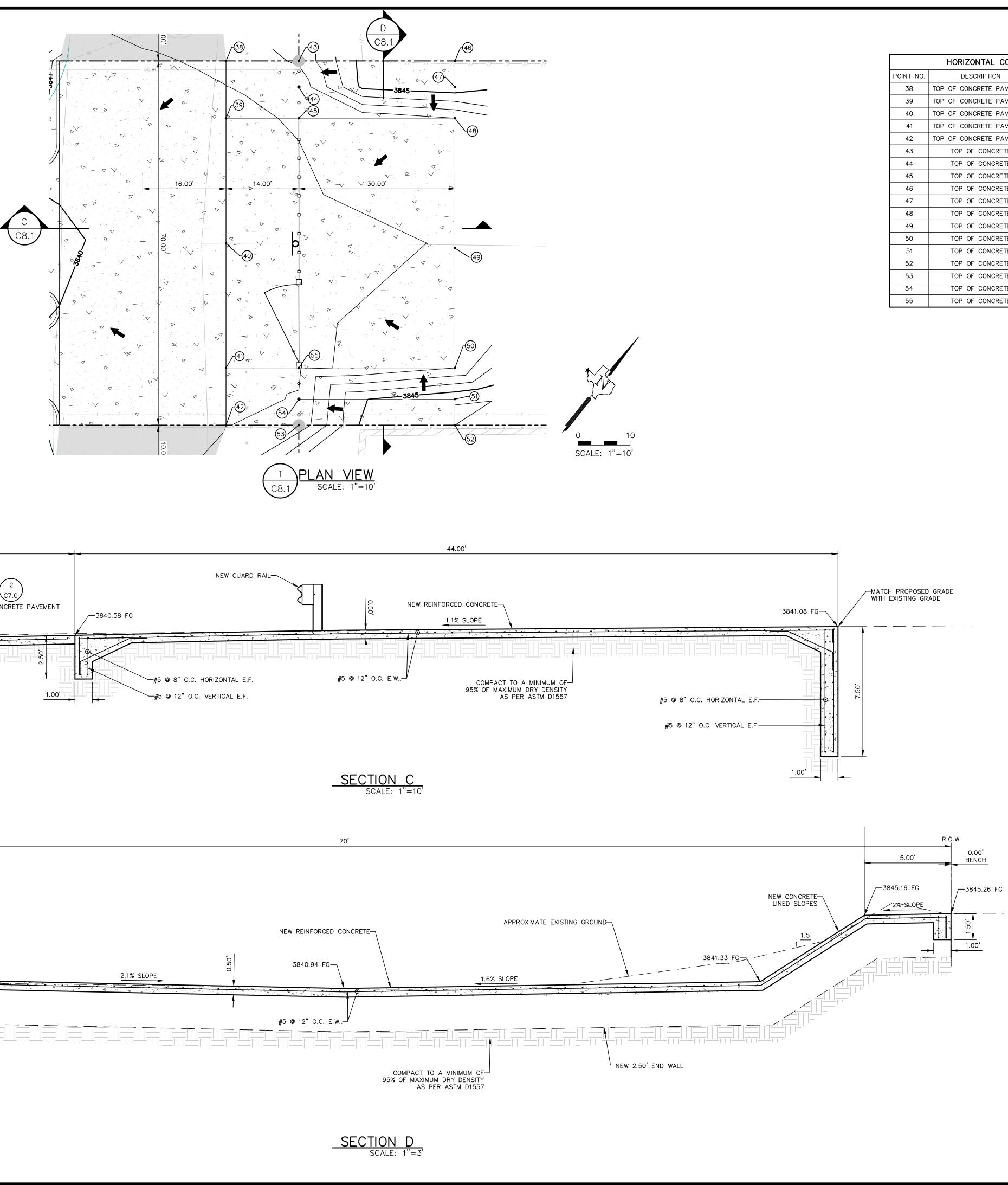
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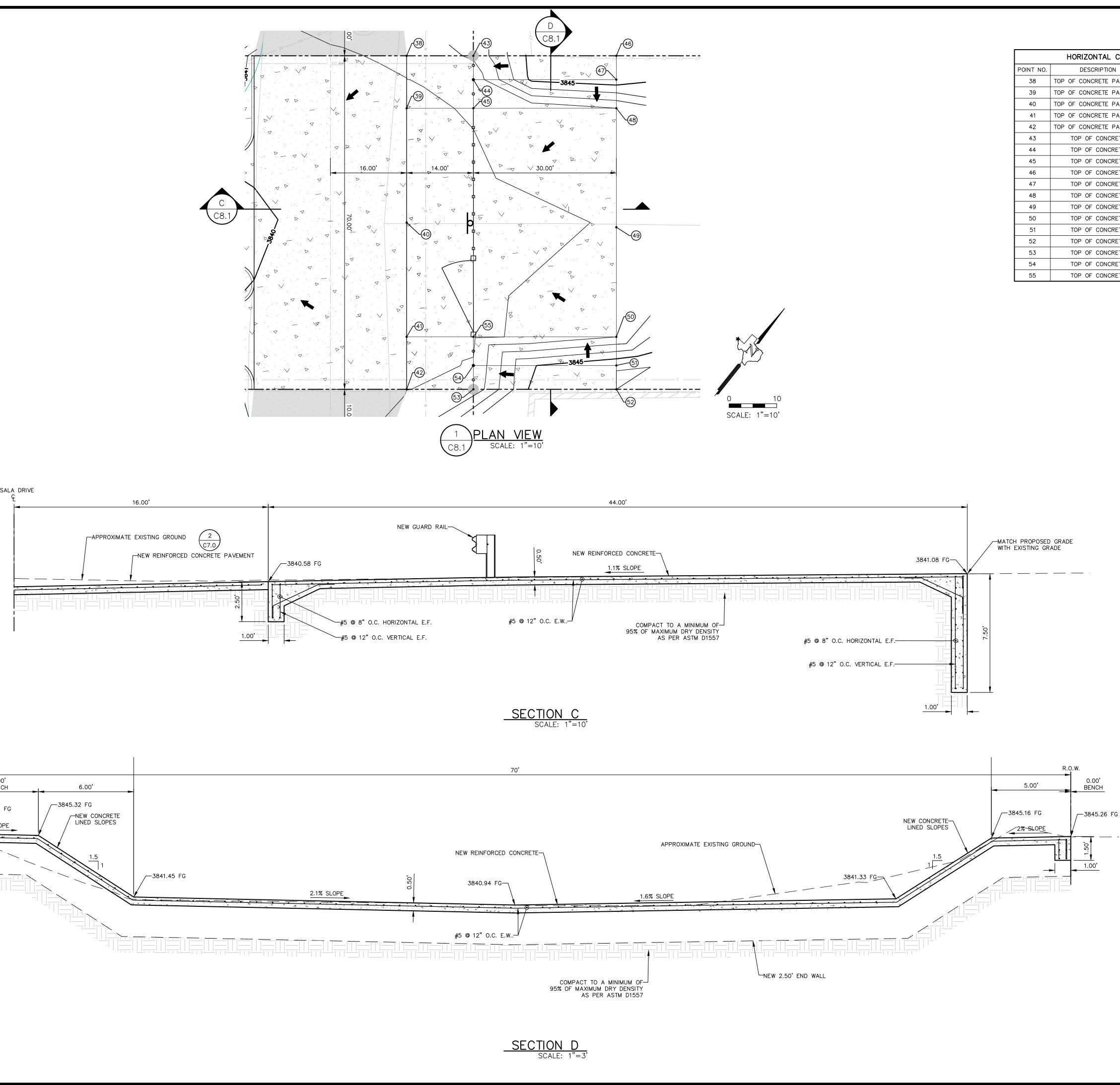
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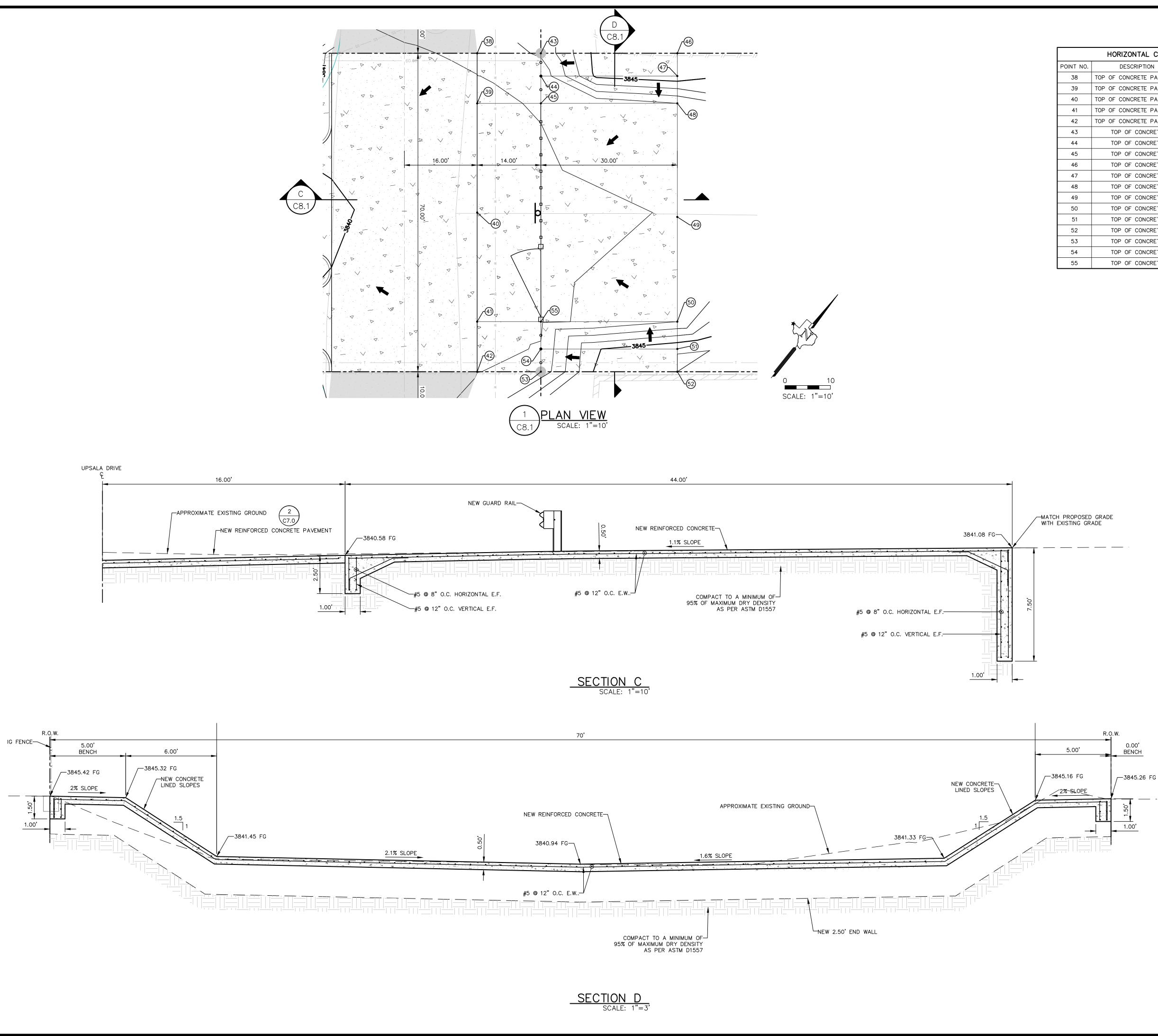


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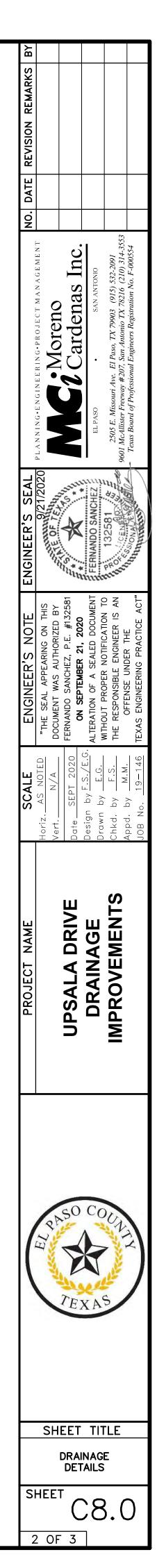
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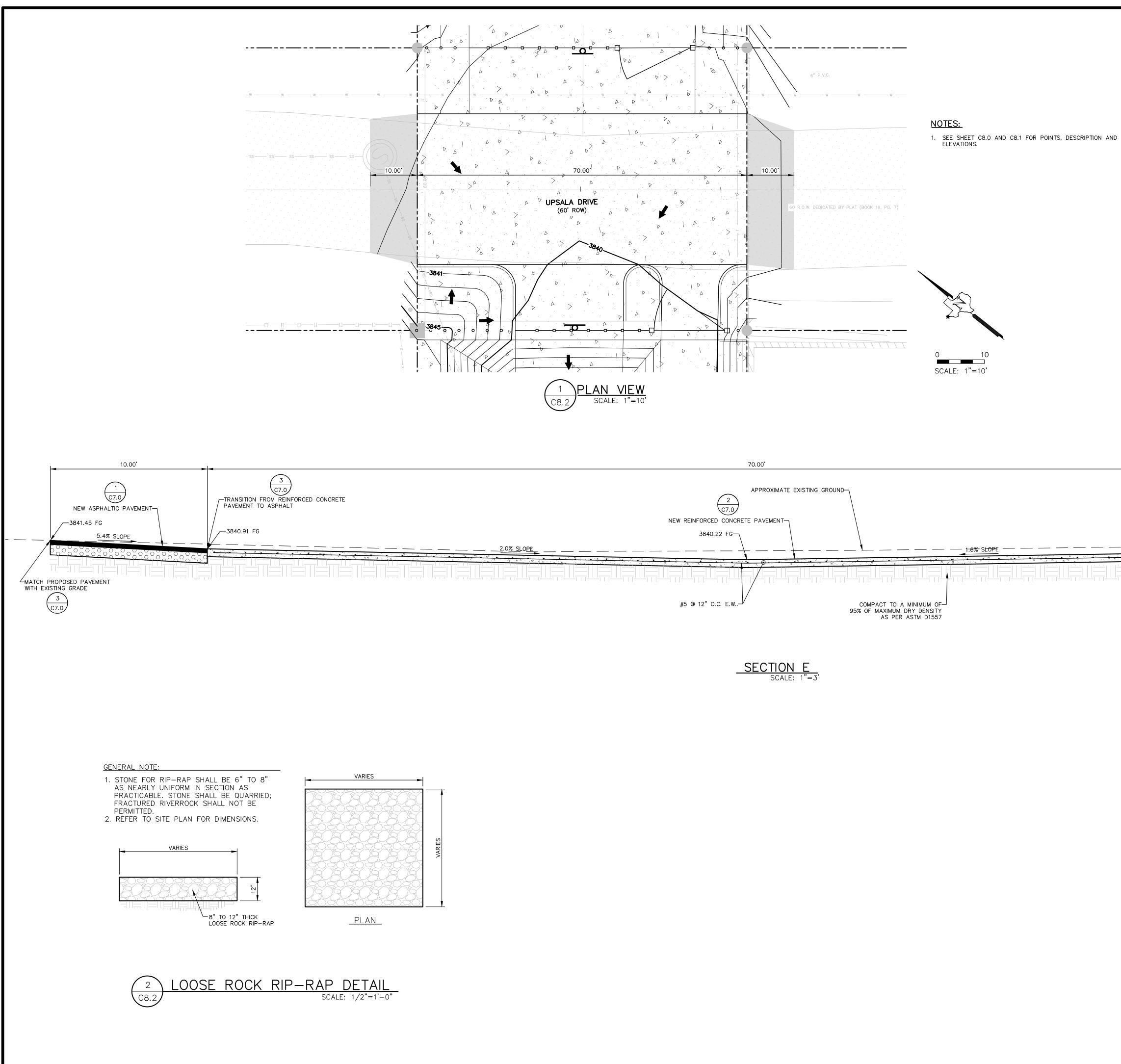






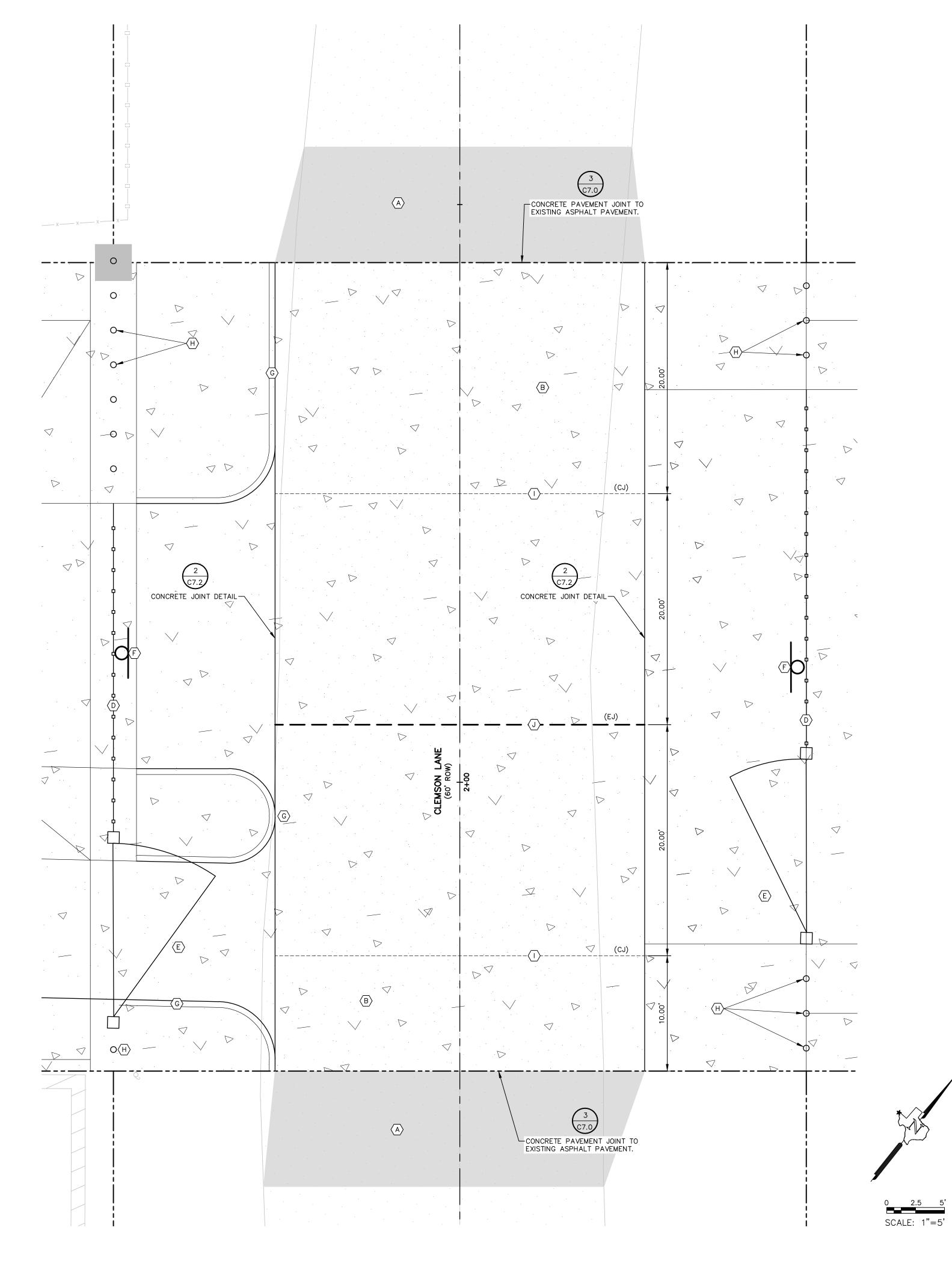
	HORIZONTAL CONTROL	TABLE	
POINT NO.	DESCRIPTION	NORTHING	EASTING
38	TOP OF CONCRETE PAVEMENT	10624429.74	461455.01
39	TOP OF CONCRETE PAVEMENT	10624421.14	461461.88
40	TOP OF CONCRETE PAVEMENT	10624402.40	461476.86
41	TOP OF CONCRETE PAVEMENT	10624383.67	461491.84
42	TOP OF CONCRETE PAVEMENT	10624375.08	461498.71
43	TOP OF CONCRETE	10624438.48	461465.94
44	TOP OF CONCRETE	10624434.57	461469.07
45	TOP OF CONCRETE	10624429.88	461472.82
46	TOP OF CONCRETE	10624457.21	461489.38
47	TOP OF CONCRETE	10624453.31	461492.50
48	TOP OF CONCRETE	10624448.62	461496.24
49	TOP OF CONCRETE	10624429.11	461511.84
50	TOP OF CONCRETE	10624411.14	461526.20
51	TOP OF CONCRETE	10624406.46	461529.95
52	TOP OF CONCRETE	10624402.55	461533.07
53	TOP OF CONCRETE	10624383.82	461509.64
54	TOP OF CONCRETE	10624387.72	461506.52
55	TOP OF CONCRETE	10624392.41	461502.77



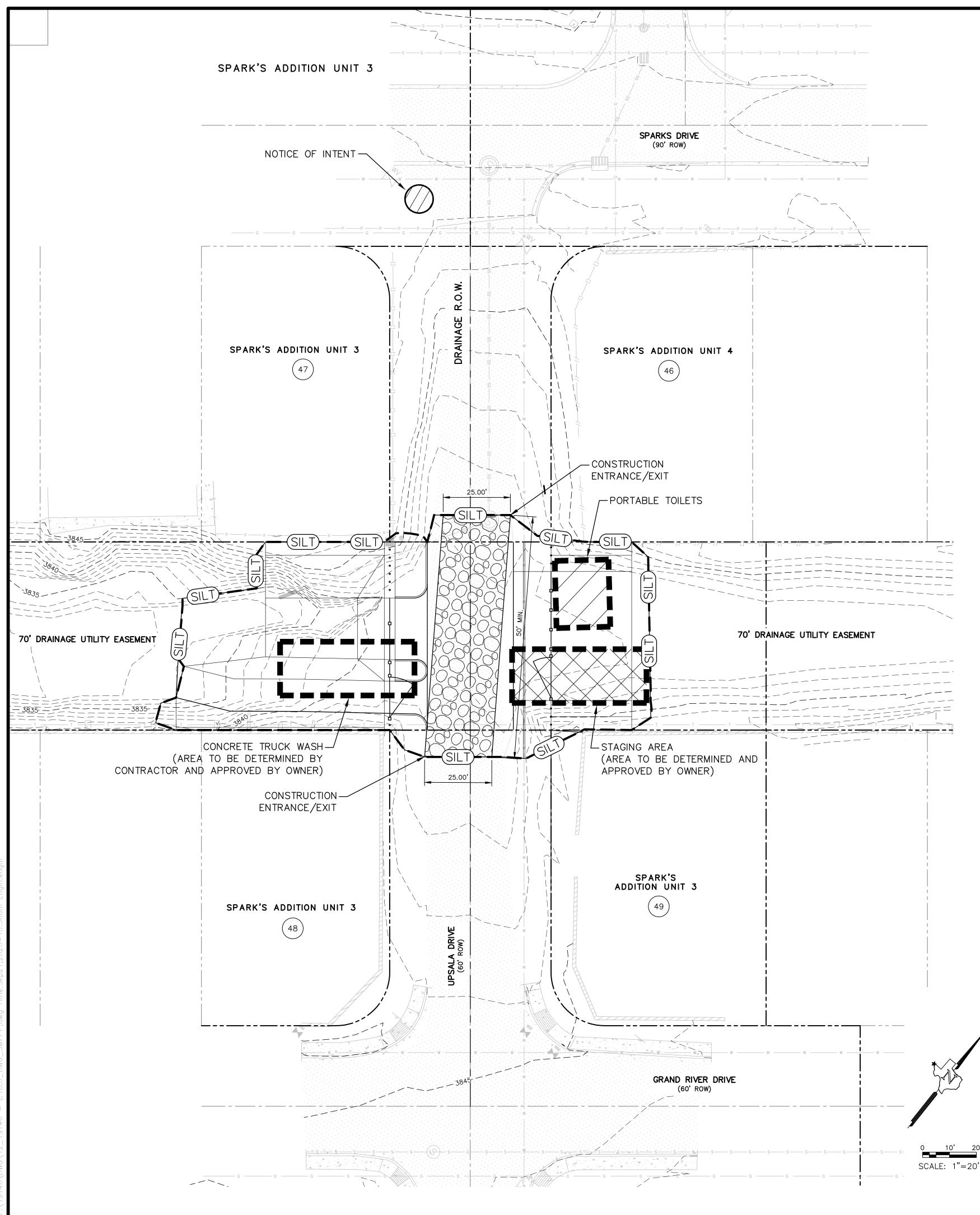


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	FLOOD ZONE "AE"	<u>ک</u>
	BASE FLOOD ELEVATIONS DETERMINED.	RKS
	FIRM - FLOOD INSURANCE RATE MAP CITY OF EL PASO, EL PASO COUNTY, TX.	REMARKS
	THIS PROJECT IS LOCATED WITHIN ZONE "AE" AS DESIGNATED IN PANEL NO. 480212–0237 B, DATED SEPTEMBER 4, 1991 OF THE FLOOD INSURANCE RATE MAPS IN THE AREAS OF CITY OF EL PASO, EL PASO COUNTY, TEXAS.	REVISION
	LEGEND	REVIS
		DATE
	FLOW DIRECTION	- · · · · · · · · · · · · · · · · · · ·
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		A G E M E N T Inc. ONIO 532-2091 (210) 314-3553 to. F-000554
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		A N N I N G • I EL PASC 2505 E. M Cexas Board of
	STAGING AREA	PLAN 9601 M
	STACING AREA	EAL STORE
	STAGING AREA CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING AN AREA TO BE USED FOR STAGING.	SSANCH
\vdash	NOTES	
	1. STABILIZED CONSTRUCTION EXITS TO BE PLACED AT ACCESS POINTS	ENGINE ERNAN
	COORDINATED WITH AND APPROVED BY THE STREET DEPARTMENT. 2. SW3P SIGN SHALL BE LOCATED WITHIN ON-SITE OFFICE.	
	 CONTRACTOR TO POST T.C.E.Q. CONSTRUCTION SITE NOTICE ON THE JOB SITE. SEDIMENT CONTROL FENCE AND ROCK FILTER DAMS TO BE LOCATED 	
	 SEDIMENT CONTROL FENCE AND ROCK FILTER DAMS TO BE LOCATED DOWNSTREAM ROW LINE OR AT PROPOSED GRADING LIMITS OR AS PER DIRECTION OF THE ENGINEER. 	S S N RING RING A 21, P.E A 21, IOTIFIC DER TH PRAC
	5. LOCATION OF CONSTRUCTION EXITS ARE PRELIMINARY AND ARE TO BE LOCATED AS PER DIRECTION OF THE ENGINEER.	R A S A S A S A S A S A S A S A S A S A
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		STORMWATER POLLUTION
		PREVENTION PLAN
		^{SHEET} C10.0
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PROJECT NAME	
	EAST EL PASO COUNTY, TEXAS, THE PROJECT LIES NEAR THE RESIDENTIAL AREA KNOWN AS
SPARKS, AP	PROXIMATELY 4,500 FEET NORTH OF THE I-10.
	RIPTION:THE PROPOSED PROJECT CONSISTS OF THE REPAIR AND IMPROVEMENT OF THE
EXISTING DR	AINAGE CROSSING ACROSS UPSALA DRIVE.
EXISTING CONE	DITIONS: THE CROSSING CONSISTS OF NATURAL ARROYO.
	AM OPENING LIES DIRECTLY ON THE GROUND AND CONVEYS THE WATER ACROSS UPSALA
	HE DOWNSTREAM END, THE OPENING THE ROADWAY IS EARTHEN EMBANKMENT WITHOUT ANY AND/OR RIP RAP THUS RESULTING IN EROSION OF THE EMBANKMENT. UPSALA DRIVE DOES
	ANY CURB OR GUTTER AND CONTRIBUTES TO THE EROSION OF THE EMBANKMENT AND LOSS
	S AT RUNOFF CONCENTRATION POINTS.
MAJOR SOIL D'	ISTURBING ACTIVITIES: MAJOR SOIL DISTURBING ACTIVITIES WILL CONSIST OF GRADING ALONG
	(NENTS ON BOTH SIDES OF UPSALA DRIVE.
	$\tau_{AD} = 0.40$ ACRES +
TOTAL PROJEC	T AREA:0.40 ACRES ±
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JCTURAL F	PRACTICES:	VI.	HAZAR
X	_ SILT FENCES		PRACTIC
	- HAY BALES		A. KE B. RE
	_ ROCK BERMS		B. KE SA
	DIVERSION, INTERCEPTOR, OR PERIMETER DIKES		C. DIS OR
	DIVERSION, INTERCEPTOR, OR PERIMETER SWALES		
	_ DIVERSION DIKE AND SWALE COMBINATION	VII.	PETRO ALL ON-
	_ PIPE SLOPE DRAINS		MAINTEN
	_ CONCRETE FLUMES		IN TIGHT USED OI
X	_ ROCK BEDDING AT CONSTRUCTION EXIT (TEMPORARY)		
	_ TIMBER MATTING AT CONSTRUCTION EXIT	VIII.	SPILL
	_ CHANNEL LINERS		A. MA PC
	_ SEDIMENT TRAPS		B. MA
	_ SEDIMENT BASINS		MA
X	_ STORM INLET SEDIMENT TRAP		C. AL D. SP
	_ STONE OUTLET STRUCTURES		D. SP BE
X			E. AN
X	_ STORM DRAINS		F. ME
	_ VELOCITY CONTROL DEVICES	IX.	MAINTE
	_ VEGETATED SWALES & NATURAL DEPRESSIONS		ALL POL
			WITHIN 2 OF 0.5
OTHER:			WILL BE
	SEQUENCE OF CONSTRUCTION (STORM WATER MANAGEMENT) ACTIVITIES:		PROCED
	1. INSTALL TEMPORARY EROSION AND SEDIMENT CONTROLS (e.g. SILT FENCE AND/OR	Х.	REMARK
	STABILIZED CONSTRUCTION ENTRANCE).		DISPOSA
	2. CLEARING, DEMOLITION AND EXCAVATION OF PROJECT AREA,		MINIMIZE AREAS S
			ANLAS -

XI.

3. SUBGRADE PREPARATION,
4. NEW CURB AND GUTTER, HEADWALLS WITH WING WALLS, GABION BASKETS,
5. WHEN ALL CONSTRUCTION ACTIVITY RELATED IN DEVELOPMENT OF THE SITE IS
COMPLETE, REMOVE TEMPORARY CONTROLS IN 1. ABOVE
BEGIN DATE: 10–2020 (APPROXIMATE)
END DATE: 03-2021 (APPROXIMMATE)

BEST MANAGEMENT PRACTICES CONTROLS

WASTE MATERIALS:

1.

ALL WASTE MATERIALS, INCLUDING CONSTRUCTION DEBRIS, SHALL BE COLLECTED AND STORED IN A SECURELY LIDDED METAL DUMPSTER. NO CONSTRUCTION WASTE MATERIAL SHALL BE BURIED ON SITE. THE TRANSIT DUMPSTER SHALL COMPLY WITH ORDINANCE 18.52.010 (ENCLOSURE AND REMOVAL OF WASTE MATERIALS DURING CONSTRUCTION). THE DUMPSTER SHALL BE EMPTIED AS NECESSARY OR AS REQUIRED BY ORDINANCE 9.04 (SOLID WASTE MANAGEMENT) AND THE TRASH SHALL BE HAULED TO A LICENSED LANDFILL.

II. HAZARDOUS WASTE:

AT A MINIMUM, ANY PRODUCTS IN THE FOLLOWING CATEGORIES SHALL BE CONSIDERED HAZARDOUS: PAINT, ACIDS FOR CLEANING MASONRY SURFACES, CLEANING SOLVENTS, ASPHALT PRODUCTS, CHEMICAL ADDITIVES FOR SPILL STABILIZATION, CURING COMPOUNDS AND ADDITIVES. IN THE EVENT OF A SPILL WHICH MAY BE HAZARDOUS, THE CONTRACTOR SHALL TAKE IMMEDIATE ACTION AND CONTACT THE FIRE DEPT. AND TNRCC.

III. SANITARY WASTE:

ALL SANITARY WASTE SHALL BE COLLECTED FROM THE CONSTRUCTION PORTABLE UNITS AS NECESSARY OR AS REQUIRED, CHAPTER 18.08 (BUILDING CODE), BY A LICENSED SANITARY WASTE MANAGEMENT CONTRACTOR. ALL WASTE MATERIAL SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

IV. SPILL PREVENTION:

THE FOLLOWING PRACTICES SHALL BE USED TO REDUCE THE RISK OF SPILLS OR OTHER ACCIDENTAL EXPOSURES OF MATERIALS TO STORM WATER RUNOFF.

V. GOOD HOUSEKEEPING:

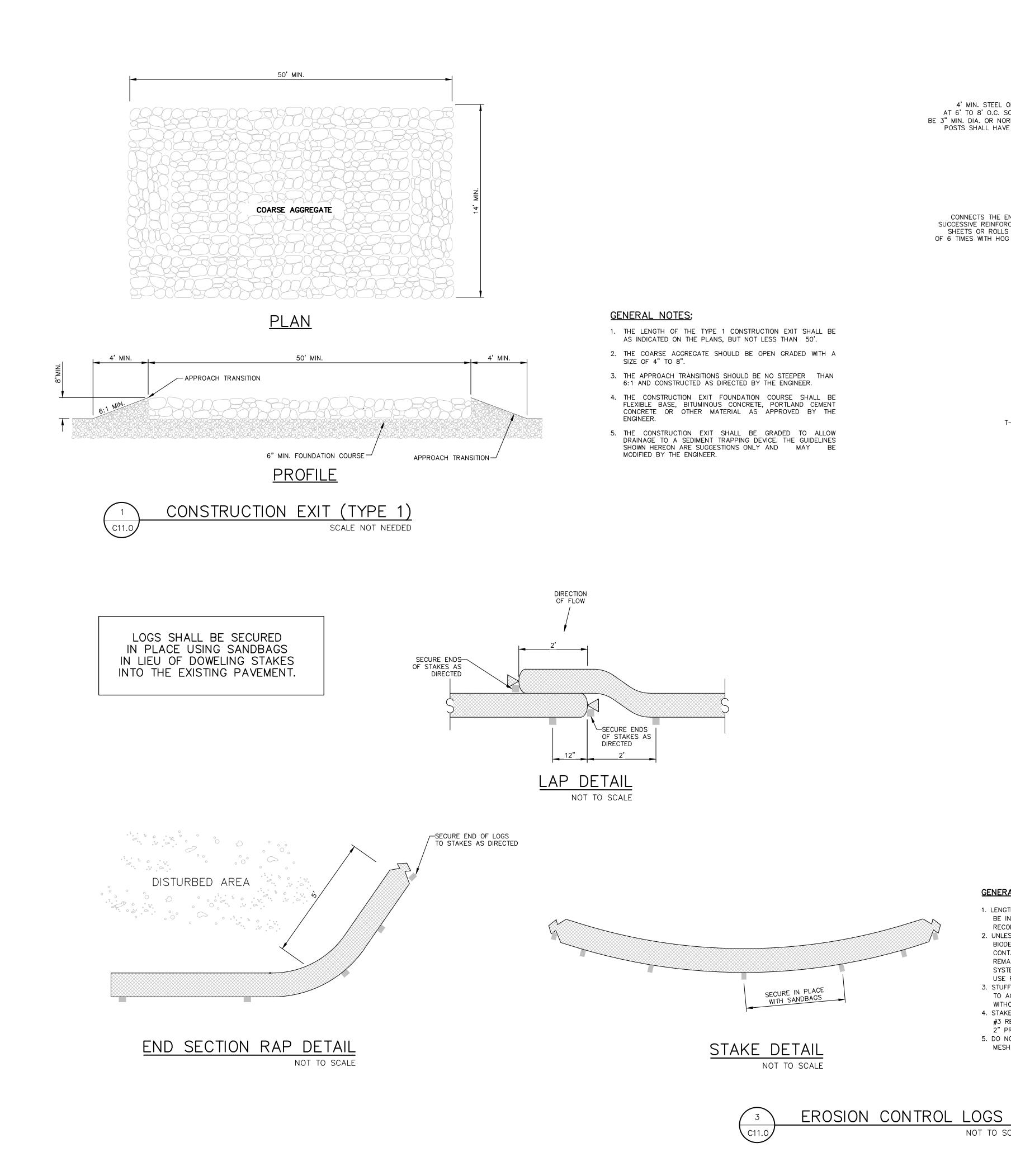
A. STORE ONLY ENOUGH PRODUCTS REQUIRED TO DO THE JOB

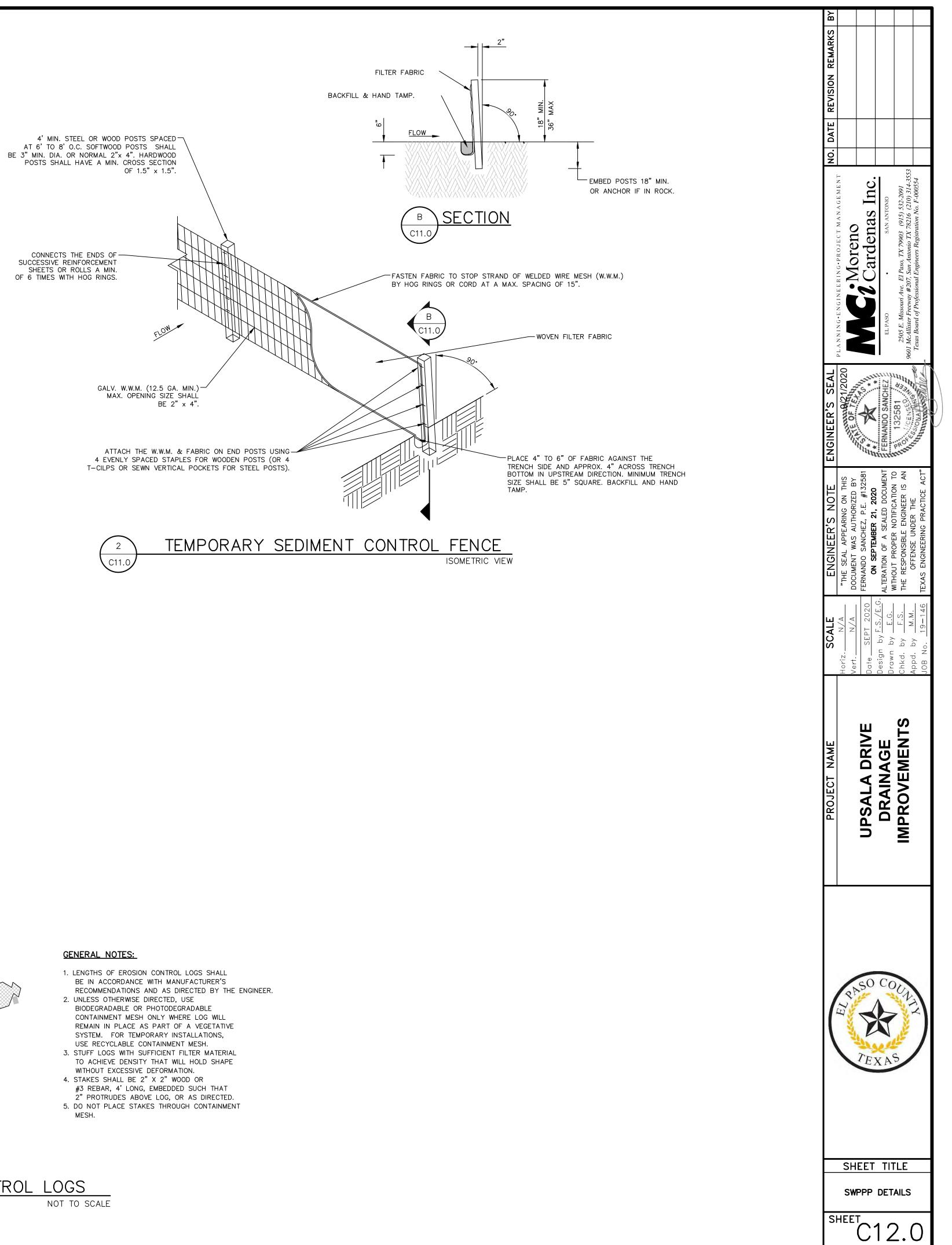
- B. NEATLY STORE MATERIALS ON-SITE IN AN ORDERLY MANNER
- C. KEEP PRODUCTS IN THEIR ORIGINAL CONTAINER
- D. DO NOT MIX SUBSTANCES WITH ONE ANOTHER, UNLESS OTHERWISE RECOMMENDED BY THE MANUFACTURER
- E. USE ENTIRE CONTENTS OF A PRODUCT BEFORE DISPOSING THE CONTAINER
- F. FOLLOW MANUFACTURER'S RECOMMENDATIONS FOR PROPER USE AND DISPOSAL

ARDOUS PRODUCTS: TICES USED TO REDUCE RISKS: KEEP PRODUCTS IN THEIR ORIGINAL CONTAINER IF AT ALL POSSIBLE RETAIN ORIGINAL LABELS, PRODUCT INFORMATION AND MATERIAL SAFETY DATA SHEETS (MSDS) DISPOSE SURPLUS PRODUCT IN ACCORDANCE WITH MANUFACTURER'S OR LOCAL & STATE RECOMMENDED METHODS ROLEUM PRODUCTS: U U DN-SITE VEHICLES SHALL BE MONITORED FOR LEAKS AND RECEIVE REGULAR PREVENTIVE In ENANCE TO REDUCE THE CHANCE OF LEAKAGE. PETROLEUM PRODUCTS SHALL BE STORED CHTLY SEALED CONTAINERS WHICH ARE CLEARLY LABELED. ANY ASPHALT SUBSTANCES S foreno ardena ON-SITE SHALL BE APPLIED ACCORDING TO THE MANUFACTURER'S RECOMMENDATION. LL CONTROL PRACTICES: MANUFACTURER'S RECOMMENDED METHODS FOR SPILL CLEANUP SHALL BE CLEARLY ΣŨ POSTED AND SITE PERSONNEL SHALL BE MADE AWARE OF THE PROCEDURES: MATERIALS AND EQUIPMENT NECESSARY FOR CLEANUP SHALL BE KEPT IN THE MATERIAL STORAGE AREA ON-SITE: ALL SPILLS SHALL BE CLEANED UP IMMEDIATELY AFTER DISCOVERY SPILL AREA SHALL BE WELL VENTILATED AND APPROPRIATE CLOTHING WILL BE WORN: ANY SPILL SHALL BE REPORTED TO THE APPROPRIATE GOVERNMENTAL AGENCY MEASURES SHALL BE TAKEN TO PREVENT A SPILL FROM REOCCURRING ITENANCE AND INSPECTION PROCEDURES: OLLUTION PREVENTION MEASURES SHALL BE INSPECTED AT LEAST ONCE A MONTH OR 1 24-HOURS PRIOR TO ANTICIPATED STORM EVENT AND FOLLOWING A STORM EVENT 5 INCHES OR MORE. INSPECTION IN FINAL STABILIZED AREAS OR DURING ARID PERIODS BE CONDUCTED MONTHLY, BEST MANAGEMENT PRACTICES AND POLLUTION CONTROL EDURES SHALL BE INSPECTED FOR ADEQUACY. **RKS**: SAL AREAS, STOCKPILES, AND HAUL ROADS SHALL BE CONSTRUCTED IN A MANNER THAT WILL IZE AND CONTROL THE AMOUNT OF SEDIMENT THAT MAY ENTER RECEIVING WATERS. DISPOSAL AREAS SHALL NOT BE LOCATED IN ANY WETLAND, WATERBODY OR STREAMBED. CONSTRUCTION STAGING AREAS AND VEHICLE MAINTENANCE AREAS SHALL BE CONSTRUCTED BY THE CONTRACTOR IN A MANNER TO MINIMIZE THE RUNOFF OF POLLUTANTS. ALL WATERWAYS SHALL BE CLEANED AS SOON AS PRACTICABLE OF TEMPORARY EMBANKMENT, TEMPORARY BRIDGES, MATTING, FALSEWORK, PILING DEBRIS OR OTHER OBSTRUCTIONS PLACED DURING CONSTRUCTION OPERATIONS THAT ARE NOT A PART OF THE FINISHED WORK. _J ≥ F OFFSITE VEHICLE TRACKING: IN ADDITION TO THE STABILIZED CONSTRUCTION ENTRANCES, THE FOLLOWING MEASURES SHALL BE OBSERVED DURING CONSTRUCTION: - HAUL ROADS SHALL BE DAMPENED FOR DUST CONTROL - LOADED HAUL TRUCKS SHALL BE COVERED WITH TARPAULIN Api Ch - EXCESS DIRT ON ROAD SHALL BE REMOVED IMMEDIATELY - STABILIZED CONSTRUCTION ENTRANCE – OTHER: _____ S Πď Б Σ



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