

ROADWAY QUANTITIES

SHEET	STA TO STA	0132-6003	0110-6003	0132-2003	0247-6041	0247-6065	0260-6001	0260-6007	0310-2005	0314-6004	0341-6027	0341-6042	0354-6002	0400-6006	0432-6045	0502-6001	0506-6001
		EXCAVATION (SPECIAL)	SUBGRADE WIDENING (ORD COMP)	EMBANKMENT (FINAL)(ORD COMP)(TY B)	FL BS (CMP IN PLC)(TYA GR1-2)(FINAL POS)	FL BS (CMP IN PLC)(TY B GR 1&2) (6")	LIME (HYDRATED LIME (DRY))	LIME TRT (SUBGRADE) (6")	PRIME COAT (MC-30 OR AE-P)	EMULS ASPH (BS OR SUBGR TRT)(CSS-1)	D-GR HMA TY-C SAC-B PG70-22	D-GR HMA TY-D SAC-B PG70-22	PLAN & TEXT ASPH CONC PAV(0" TO 2")	CUT & RESTORING PAV	RIPRAP (MOW STRIP)(4 IN)	BARRICADES, SIGNS AND TRAFFIC HANDLING	ROCK FILTER DAMS (INSTALL) (TY 1)
		CY	STA	CY	CY	SY	TON	SY	GAL	GAL	TON	TON	SY	SY	CY	MO	LF
FAIR OAKS PARKWAY																	
C101	STA 10+00 TO 18+00								279			192		15		12	
C102	STA 18+00 TO 26+00								462			329		9			40
C103	STA 26+00 TO 34+00								489			337					
C104	STA 34+00 TO 42+00								488			335		9			
C105	STA 42+00 TO 50+00								448			308					
C106	STA 50+00 TO 58+00								473			326					
C107	STA 58+00 TO 66+00								487			335		11			4
C108	STA 66+00 TO 74+00								472			324		7			
C109	STA 74+00 TO 82+00								486			344		8			
C110	STA 82+00 TO 89+50								435			305		9			40
C111	STA 89+50 TO 98+00								568			391		24			
C112	STA 98+00 TO 106+50								548			386		39			40
C113	STA 106+50 TO 114+50								608			418					
C114	STA 114+50 TO END								457			319					
	STREET TOTAL	0	0	0	0	0	0	0	6700	0	0	4648	0	131	0	12	124
DIETZ ELKHORN																	
C115	STA 10+00 TO 18+00								277			201					
C116	STA 18+00 TO 26+00								277			191					
C117	STA 26+00 TO 34+00								277			191					
C118	STA 34+00 TO 42+00								277			191					
C119	STA 42+00 TO 50+00								277			191					20
C120	STA 50+00 TO END								84			63					20
	STREET TOTAL	0	0	0	0	0	0	0	1469	0	0	1026	0	0	0	0	40
SCINTILLA ROAD																	
C122	10+00 TO 18+00								315.0			289	2629				
C123	18+00 TO END								152.0			139	1263				
	STREET TOTAL	0	0	0	0	0	0	0	467	0	0	428	3892	0	0	0	0
SOFT WIND CIRCLE																	
C124	10+00 TO END								106			97	880				
	STREET TOTAL	0	0	0	0	0	0	0	106	0	0	97	880	0	0	0	0
SLUMBERWOOD ROAD																	
C121	STA 10+00 TO END								140	2876	160	0	0				
	STREET TOTAL	0	0	0	0	0	0	0	140	2876	160	0	0	0	0	0	0
MEADOW CREEK TRAIL																	
C125	STA 10+00 TO 18+00		8.0		72				271		3155	373					
C126	STA 18+00 TO 26+00		8.0		72				256		2977	352					
C127	STA 26+00 TO 34+00		8.0		72				256		2978	352					
C128	STA 34+00 TO 42+00		8.0		72				256		2981	352					
C129	STA 42+00 TO 50+00		8.0		72				256		2980	352					

REV. NO.	DATE	DESCRIPTION
1	8/10/16	ITEM ADDED/ REVISED QUANTITY



SAN ANTONIO | AUSTIN | HOUSTON | FORT WORTH | DALLAS
 3800 NW LOOP 410 | SAN ANTONIO, TX 78219 | 210.376.5000
 TYPE FIRM REGISTRATION #4100 | TOPIC FIRM REGISTRATION #17000000



FAIR OAKS RANCH ROADWAY RECONSTRUCTION
 AND WATER SYSTEM IMPROVEMENTS

QUANTITY SUMMARIES
 ROADWAY

DESIGNER	DATE	CITY
RS	JULY 2016	FAIR OAKS RANCH
SCD	JOB NO.	
JM	8778-00	C006

File: P:\87178\00\Design\Civil\Sheets\100%_Revised\SUM_QTY_877800_REV_2.dwg

ROADWAY QUANTITIES

SHEET	STA TO STA	0506-6011	0507-6032	0540-6001	0540-6016	0544-6001	0618-6033	0666-6012	0666-6036	0666-6048	0666-6054	0666-6078	0666-6126	0666-6224	0666-6226	0666-6230	0666-6231
		ROCK FILTER DAMS (REMOVE)	SILT FENCE	MTL W-BEAM GD FEN (TIM POST)	DOWNSTREAM ANCHOR TERMINAL SECTION	GUARDRAIL END TREATMENT (INSTALL)	COND (PVC) (SCH 40) (4")	REFL PAV MRK TY I (W)4*(SLD)(100MIL)	REFL PAV MRK TY I (W)8*(SLD)(100MIL)	REFL PAV MRK TY I (W)24*(SLD)(100MIL)	REFL PAV MRK TY I (W)(ARROW)(100MIL)	REFL PAV MRK TY I (W)(WORD)(100MIL)	REFL PAV MRK TY I (Y)4*(SLD)(100MIL)	PAVEMENT SEALER 4"	PAVEMENT SEALER 8"	PAVEMENT SEALER 24"	PAVEMENT SEALER (ARROW)
		LF	LF	LF	EA	EA	LF	LF	LF	LF	EA	EA	LF	LF	LF	LF	EA
FAIR OAKS PARKWAY																	
C101	STA 10+00 TO 18+00							1600					600	2200			
C102	STA 18+00 TO 26+00	40	110				40	1520		14			1470	2990		14	
C103	STA 26+00 TO 34+00							1452					1470	2922			
C104	STA 34+00 TO 42+00						55	1600					1374	2974			
C105	STA 42+00 TO 50+00							1600					1600	3200			
C106	STA 50+00 TO 58+00							1535					1476	3011			
C107	STA 58+00 TO 66+00						62	1535					1476	3011			
C108	STA 66+00 TO 74+00						42	1540					1476	3016			
C109	STA 74+00 TO 82+00						44	1472					1356	2828			
C110	STA 82+00 TO 89+50	40					44	1533					1491	3024			
C111	STA 89+50 TO 98+00		340				130	1416					1422	2838			
C112	STA 98+00 TO 106+50	40					110	1602		60			1440	3042		60	
C113	STA 106+50 TO 114+50							1477	170		3	2	1220	2697	170		3
C114	STA 114+50 TO END							1407	90		1	2	330	1737	90		1
	STREET TOTAL	120	450	0	0	0	527	21289	260	74	4	4	18201	39490	260	74	4
DIETZ ELKHORN																	
C115	STA 10+00 TO 18+00							1600					1600	3200			
C116	STA 18+00 TO 26+00							1600					1600	3200			
C117	STA 26+00 TO 34+00							1600					1600	3200			
C118	STA 34+00 TO 42+00							1600					1600	3200			
C119	STA 42+00 TO 50+00	20						1600					1600	3200			
C120	STA 50+00 TO END	20						556					556	1112			
	STREET TOTAL	40	0	0	0	0	0	8556	0	0	0	0	8556	17112	0	0	0
SCINTILLA ROAD																	
C122	10+00 TO 18+00																
C123	18+00 TO END																
	STREET TOTAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SOFT WIND CIRCLE																	
C124	10+00 TO END																
	STREET TOTAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SLUMBERWOOD ROAD																	
C121	STA 10+00 TO END																
	STREET TOTAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MEADOW CREEK TRAIL																	
C125	STA 10+00 TO 18+00																
C126	STA 18+00 TO 26+00																
C127	STA 26+00 TO 34+00																
C128	STA 34+00 TO 42+00																
C129	STA 42+00 TO 50+00																

REV. NO.	DATE	DESCRIPTION
1	8/10/16	REVISED QUANTITY



PAPE-DAWSON ENGINEERS
 SAN ANTONIO | AUSTIN | HOUSTON | FORT WORTH | DALLAS
 2800 NW LOOP 410 | SAN ANTONIO, TX 78215 | 210.376.5000
 TYPE FIRM REGISTRATION #4100 | TYPE FIRM REGISTRATION #17000000



CITY OF FAIR OAKS RANCH, TEXAS

FAIR OAKS RANCH ROADWAY RECONSTRUCTION AND WATER SYSTEM IMPROVEMENTS

QUANTITY SUMMARIES ROADWAY

DESIGNER: RS	DATE: JULY 2016	CITY: FAIR OAKS RANCH
CHECKED: SCD	JOB NO.	
DRAWN: JM	8778-00	C007

File: P:\87178\00\Design\Civil\Sheets\100%_Revised\SUM_QTY_877800_REV_2.dwg

ROADWAY QUANTITIES

SHEET	STA TO STA	0666-6232	0672-6007	0672-6009	0678-6001	0678-6004	0678-6008	0678-6009	0678-6016	3003	XXX	3003-XXXX	0529-6005	0712-XXXX	110-2001
		PAVEMENT SEALER (WORD)	REFL PAV MRKR TY I-C	REFL PAV MRKR TY II-A-A	PAV SURF PREP FOR MRK (4")	PAV SURF PREP FOR MRK (8")	PAV SURF PREP FOR MRK (24")	PAV SURF PREP FOR MRK (ARROW)	PAV SURF PREP FOR MRK (WORD)	EMULSION TREATMENT (ROAD MIXED)	ASPHALT GEOGRID REINFORCEMENT	CEMENT	TY II CURB	PAVEMENT REPAIR	ROADWAY (EXCAVATION)
		EA	EA	EA	LF	LF	LF	EA	EA	SY	SY	TON	LF	SY	CY
FAIR OAKS PARKWAY															
C101	STA 10+00 TO 18+00		75		2200						3995			133	
C102	STA 18+00 TO 26+00		75		2990		14				3995			173	
C103	STA 26+00 TO 34+00		75		2922						3995			240	
C104	STA 34+00 TO 42+00		75		2974						3995			530	
C105	STA 42+00 TO 50+00		75		3200						3995			335	
C106	STA 50+00 TO 58+00		75		3011						3995			1015	
C107	STA 58+00 TO 66+00		75		3011						3995			1300	
C108	STA 66+00 TO 74+00		75		3016						3995			87	
C109	STA 74+00 TO 82+00		75		2828						3995			715	265
C110	STA 82+00 TO 89+50		75		3024						3995			107	
C111	STA 89+50 TO 98+00		75		2838						3995			285	
C112	STA 98+00 TO 106+50		75		3042		60				3995		700	700	
C113	STA 106+50 TO 114+50	2	75		2697	170		3	2		3995			375	
C114	STA 114+50 TO END	2	31	36	1737	90		1	2		3904			24	
	STREET TOTAL	4	1006	36	39490	260	74	4	4	0	55839	0	700	6020	265
DIETZ ELKHORN															
C115	STA 10+00 TO 18+00				3200										
C116	STA 18+00 TO 26+00				3200										
C117	STA 26+00 TO 34+00				3200										
C118	STA 34+00 TO 42+00				3200										
C119	STA 42+00 TO 50+00				3200										
C120	STA 50+00 TO END				1112										
	STREET TOTAL	0	0	212	17112	0	0	0	0	0	0	0	0	0	0
SCINTILLA ROAD															
C122	10+00 TO 18+00													88	
C123	18+00 TO END													88	
	STREET TOTAL	0	0	0	0	0	0	0	0	0	0	0	0	176	
SOFT WIND CIRCLE															
C124	10+00 TO END														
	STREET TOTAL	0	0	0	0	0	0	0	0	0	0	0	0	711	
SLUMBERWOOD ROAD															
C121	STA 10+00 TO END									1166					
	STREET TOTAL	0	0	0	0	0	0	0	0	1166	0	160	0	0	
MEADOW CREEK TRAIL															
C125	STA 10+00 TO 18+00									2229					
C126	STA 18+00 TO 26+00									2133					
C127	STA 26+00 TO 34+00									2133					
C128	STA 34+00 TO 42+00									2135					
C129	STA 42+00 TO 50+00									2134					

REV. NO.	DATE	DESCRIPTION
1	8/10/16	REVISED QUANTITY



PAPE-DAWSON ENGINEERS
 SAN ANTONIO | AUSTIN | HOUSTON | FORT WORTH | DALLAS
 2800 NW LOOP 410 | SAN ANTONIO, TX 78215 | 210.376.5000
 TYPE FIRM REGISTRATION #4100 | TOLP FIRM REGISTRATION #17000000



CITY OF FAIR OAKS RANCH, TEXAS

FAIR OAKS RANCH ROADWAY RECONSTRUCTION AND WATER SYSTEM IMPROVEMENTS

QUANTITY SUMMARIES ROADWAY

DESIGNER: RS	DATE: JULY 2016	CITY: FAIR OAKS RANCH
CHECKED: SCD	JOB NO.	
DRAWN: JM	8778-00	C008

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ROADWAY QUANTITIES

SHEET	STA TO STA	0132-6003	0110-6003	0132-2003	0247-6041	0247-6065	0260-6001	0260-6007	0310-2005	0314-6004	0341-6027	0341-6042	0354-6002	0400-6006	0432-6045	0502-6001	0506-6001
		EXCAVATION (SPECIAL)	SUBGRADE WIDENING (ORD COMP)	EMBANKMENT (FINAL)(ORD COMP)(TY B)	FL BS (CMP IN PLC)(TYA GR1-2)(FN AL POS)	FL BS (CMP IN PLC)(TY B GR 1&2) (6")	LIME (HYDRATED LIME (DRY))	LIME TRT (SUBGRADE) (6")	PRIME COAT (MC-30 OR AE-P)	EMULS ASPH (BS OR SUBGR TRT)(CSS-1)	D-GR HMA TY-C SAC-B PG70-22	D-GR HMA TY-D SAC-B PG70-22	PLAN & TEXT ASPH CONC PAV(0" TO 2")	CUT & RESTORING PAV	RIPRAP (MOW STRIP)(4 IN)	BARRICADES, SIGNS AND TRAFFIC HANDLING	ROCK FILTER DAMS (INSTALL) (TY 1)
C130	STA 50+00 TO 58+00		8.0		72				256	2979	352						
C131	STA 58+00 TO 66+00		5.0		33				138	1605	190						20
C132	STA 66+00 TO END		5.0		38				151	1760	208						
C133	FULL RECONSTRUCTION	106		688.0		986	3	986	118		163				15		
	STREET TOTAL	106	58	688	503	986	3	986	1958	21415	2694	0	0	0	15	0	20
SILVER SPUR TRAIL																	
C134	STA 10+00 TO 18+00								237	3508	326						
C135	STA 18+00 TO 26+00								235	3477	323						
C136	STA 26+00 TO 34+00								234	3472	322						
C137	STA 34+00 TO 42+00								234	3472	322						
C138	STA 42+00 TO 50+00								235	3474	323						
C139	STA 50+00 TO 58+00								234	3469	322						
C140	STA 58+00 TO 66+00								234	3470	322						
C141	STA 66+00 TO 74+00								235	3479	323						
C142	STA 74+00 TO 82+00								235	3476	323						
C143	STA 82+00 TO 90+00								235	3477	323						
C144	STA 90+00 TO 98+00								235	3475	323						
C145	STA 98+00 TO 106+00								235	3474	323						
C146	STA 106+00 TO END								116	1718	160						
	STREET TOTAL	0	0	0	0	0	0	0	2933	43443	4034	0	0	0	0	0	0
INTREPID DRIVE																	
C147	STA 10+00 TO 18+00								244	4298	223			11			
C148	STA 18+00 TO 26+00								235	4137	215						40
C149	STA 26+00 TO END								106	1802	97		9				
	STREET TOTAL	0	0	0	0	0	0	0	584	10237	536	0	0	20	0	0	40
ROCK OAK CIRCLE																	
C150	STA 10+00 TO 18+00								257	2988.8	235						
C151	STA 18+00 TO END								45	521	41						
	STREET TOTAL	0	0	0	0	0	0	0	302	3509	276	0	0	0	0	0	0
SCARTEEN ROAD/ROLLING ACRES RD																	
C152	STA 10+00 TO 18+00								233	2052	320						
C153	STA 18+00 TO 26+00								235	2069	323						
C154	STA 26+00 TO 34+00								235	2068	323						
C155	STA 34+00 TO 42+00								235	2069	323						
C156	STA 42+00 TO 50+00								235	2068	323						
C157	STA 50+00 TO 58+00								235	2068	323						
C158	STA 58+00 TO 64+00								176	1551	242						
C159	STA 64+00 TO 70+50								191	1681	262						
C160	STA 70+50 TO END								209	1845	288						
	STREET TOTAL	0	0	0	0	0	0	0	1983	17470	2725	0	0	0	0	0	0

REV. NO.	DATE	DESCRIPTION
1	8/10/16	ITEM ADDED/REVISED QUANTITY



SAN ANTONIO | AUSTIN | HOUSTON | FORT WORTH | DALLAS
 3800 NEW LOOP 410 | SAN ANTONIO, TX 78218 | 210.376.3800
 TYPE FIRM REGISTRATION #4100 | TYPE LB FIRM REGISTRATION #17000000



FAIR OAKS RANCH ROADWAY RECONSTRUCTION AND WATER SYSTEM IMPROVEMENTS

QUANTITY SUMMARIES ROADWAY

DESIGNER	DATE	CITY
RS	JULY 2016	FAIR OAKS RANCH
CHECKED	JOB NO.	
SCD		
DRAWN	DATE	CITY
JM	8/7/16	009

File: P:\178\100\Design\Civil\Sheets\100%_Revised\SUM_QTY_877600_REV_2.dwg

ROADWAY QUANTITIES

SHEET	STA TO STA	0666-6232	0672-6007	0672-6009	0678-6001	0678-6004	0678-6008	0678-6009	0678-6016	3003	XXX	3003-XXXX	0529-6005	0712-XXXX	110-2001
		PAVEMENT SEALER (WORD)	REFL PAV MRKR TY I-C	REFL PAV MRKR TY II-A-A	PAV SURF PREP FOR MRK (4")	PAV SURF PREP FOR MRK (8")	PAV SURF PREP FOR MRK (24")	PAV SURF PREP FOR MRK (ARROW)	PAV SURF PREP FOR MRK (WORD)	EMULSION TREATMENT (ROAD MIXED)	ASPHALT GEOGRID REINFORCEMENT	CEMENT	TY II CURB	PAVEMENT REPAIR	ROADWAY (EXCAVATION)
		EA	EA	EA	LF	LF	LF	EA	EA	SY	SY	TON	LF	SY	CY
C130	STA 50+00 TO 58+00									2135					
C131	STA 58+00 TO 66+00									1336					
C132	STA 66+00 TO END									1177					
C133	FULL RECONSTRUCTION														
	STREET TOTAL	0	0	300	0	0	0	0	0	15412	0	0	0	0	
SILVER SPUR TRAIL															
C134	STA 10+00 TO 18+00									1974					
C135	STA 18+00 TO 26+00									1957					
C136	STA 26+00 TO 34+00									1955					
C137	STA 34+00 TO 42+00									1954					
C138	STA 42+00 TO 50+00									1955					
C139	STA 50+00 TO 58+00									1953					
C140	STA 58+00 TO 66+00									1922					
C141	STA 66+00 TO 74+00									1959					
C142	STA 74+00 TO 82+00									1957					
C143	STA 82+00 TO 90+00									1956					
C144	STA 90+00 TO 98+00									1956					
C145	STA 98+00 TO 106+00									1956					
C146	STA 106+00 TO END									966					
	STREET TOTAL	0	0	0	0	0	0	0	0	24420	0	0	0	0	
INTREPID DRIVE															
C147	STA 10+00 TO 18+00									2030					
C148	STA 18+00 TO 26+00									1956					
C149	STA 26+00 TO END									1561					
	STREET TOTAL	0	0	0	0	0	0	0	0	5547	0	0	0	0	
ROCK OAK CIRCLE															
C150	STA 10+00 TO 18+00									2141					
C151	STA 18+00 TO END									373					
	STREET TOTAL	0	0	0	0	0	0	0	0	2514	0	0	0	0	
SCARTEEN ROAD/ROLLING ACRES RD															
C152	STA 10+00 TO 18+00									1940					
C153	STA 18+00 TO 26+00									1956					
C154	STA 26+00 TO 34+00									1834					
C155	STA 34+00 TO 42+00									2062					
C156	STA 42+00 TO 50+00									1956					
C157	STA 50+00 TO 58+00									1956					
C158	STA 58+00 TO 64+00									1467					
C159	STA 64+00 TO 70+50									1584					
C160	STA 70+50 TO END									1745					
	STREET TOTAL	0	0	0	0	0	0	0	0	16500	0	0	0	0	

REV. NO.	DATE	DESCRIPTION
1	8/10/16	REVISED QUANTITY



PAPE-DAWSON ENGINEERS
 SAN ANTONIO | AUSTIN | HOUSTON | FORT WORTH | DALLAS
 3000 NEW LOOP 410 | SAN ANTONIO, TX 78218 | 210.370.3000
 TYPE FIRM REGISTRATION #4100 | TOLPES FIRM REGISTRATION #17000000



CITY OF FAIR OAKS RANCH, TEXAS

FAIR OAKS RANCH ROADWAY RECONSTRUCTION AND WATER SYSTEM IMPROVEMENTS

QUANTITY SUMMARIES ROADWAY

DESIGNER: RS	DATE: JULY 2016	CITY: FAIR OAKS RANCH
CHECKED: SCD	JOB NO.	
DRAWN: JM	8778-00	C011

ROADWAY QUANTITIES

SHEET	STA TO STA	0506-6011	0507-6032	0540-6001	0540-6016	0544-6001	0618-6033	0666-6012	0666-6036	0666-6048	0666-6054	0666-6078	0666-6126	0666-6224	0666-6226	0666-6230	0666-6231
		ROCK FILTER DAMS (REMOVE)	SILT FENCE	MTL W-BEAM GD FEN (TIM POST)	DOWNSTREA M ANCHOR TERMINAL SECTION	GUARDRAIL END TREATMENT (INSTALL)	CONDT (PVC) (SCH 40) (4")	REFL PAV MRK TY I (W)4"(SLD) (100MIL)	REFL PAV MRK TY I (W)8"(SLD) (100MIL)	REFL PAV MRK TY I (W)24"(SLD) (100MIL)	REFL PAV MRK TY I (W)(ARROW) (100MIL)	REFL PAV MRK TY I (W)(WORD) (100MIL)	REFL PAV MRK TY I (Y)4"(SLD) (100MIL)	PAVEMENT SEALER 4"	PAVEMENT SEALER 8"	PAVEMENT SEALER 24"	PAVEMENT SEALER (ARROW)
		LF	LF	LF	EA	EA	LF	LF	LF	LF	EA	EA	LF	LF	LF	LF	EA
WEMBLEY ROAD																	
C161	STA 10+00 TO 18+00																
C162	STA 18+00 TO END																
	STREET TOTAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SKY BLUE RIDGE																	
C163	STA 10+00 TO 18+00																
C164	STA 18+00 TO END																
	STREET TOTAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SUNLAND ROAD																	
C165	STA 10+00 TO 18+00																
C166	STA 18+00 TO END																
	STREET TOTAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
DAPPER DAN DRIVE																	
C167	STA 10+00 TO 18+00																
C168	STA 18+00 TO 26+00																
C169	STA 26+00 TO END																
	STREET TOTAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PIMLICO LANE																	
C170	STA 10+00 TO 18+00						50										
C171	STA 18+00 TO 26+00																
C172	STA 26+00 TO END																
	STREET TOTAL	0	0	0	0	0	50	0	0	0	0	0	0	0	0	0	0
CLYDESDALE CIRCLE																	
C173	STA 10+00 TO END																
	STREET TOTAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TURF PARADISE LANE																	
C174	STA 10+00 TO 18+00																
C175	STA 18+00 TO END																
	STREET TOTAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	TOTAL	220	690	150	2	2	577	29845	260	74	4	4	26757	56602	260	74	4



REV. NO.	DATE	DESCRIPTION
1	8/10/16	REVISED QUANTITY



SAN ANTONIO | AUSTIN | HOUSTON | FORT WORTH | DALLAS
 2800 HWY LOOP 410 | SAN ANTONIO, TX 78218 | 210.376.5000
 TYPE FIRM REGISTRATION #4130 | TYPE LB FIRM REGISTRATION #17000000



FAIR OAKS RANCH ROADWAY RECONSTRUCTION
 AND WATER SYSTEM IMPROVEMENTS

**QUANTITY SUMMARIES
 ROADWAY**

DESIGNER	DATE	CITY
RS	JULY 2016	FAIR OAKS RANCH
CHECKED	JOB NO.	
SCD		
DRAWN	DATE	
JM	8/7/16	C013

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ROADWAY QUANTITIES

SHEET	STA TO STA	0132-6003	0110-6003	0132-2003	0247-6041	0247-6065	0260-6001	0260-6007	0310-2005	0314-6004	0341-6027	0341-6042	0354-6002	0400-6006	0432-6045	0502-6001	0506-6001
		EXCAVATION (SPECIAL)	SUBGRADE WIDENING (ORD COMP)	EMBANKMENT (FINAL)(ORD COMP)(TY B)	FL BS (CMP IN PLC)(TYA GR1-2)(FN AL POS)	FL BS (CMP IN PLC)(TY B GR 1&2) (6")	LIME (HYDRATED LIME (DRY))	LIME TRT (SUBGRADE) (6")	PRIME COAT (MC-30 OR AE-P)	EMULS ASPH (BS OR SUBGR TRT)(CSS-1)	D-GR HMA TY-C SAC-B PG70-22	D-GR HMA TY-D SAC-B PG70-22	PLAN & TEXT ASPH CONC PAV(0" TO 2")	CUT & RESTORING PAV	RIPRAP (MOW STRIP)(4 IN)	BARRICADES, SIGNS AND TRAFFIC HANDLING	ROCK FILTER DAMS (INSTALL) (TY 1)
		CY	STA	CY	CY	SY	TON	SY	GAL	GAL	TON	TON	SY	SY	CY	MO	LF
WEMBLEY ROAD																	
C161	STA 10+00 TO 18+00								252	3561	347						
C162	STA 18+00 TO END								174	2581	240						
	STREET TOTAL	0	0	0	0	0	0	0	426	6142	587	0	0	0	0	0	0
SKY BLUE RIDGE																	
C163	STA 10+00 TO 18+00								245	2852	337						
C164	STA 18+00 TO END								90	1049	124						
	STREET TOTAL	0	0	0	0	0	0	0	335	3901	461	0	0	0	0	0	0
SUNLAND ROAD																	
C165	STA 10+00 TO 18+00								234	2064	322						
C166	STA 18+00 TO END								116	1026	160						
	STREET TOTAL	0	0	0	0	0	0	0	351	3091	482	0	0	0	0	0	0
DAPPER DAN DRIVE																	
C167	STA 10+00 TO 18+00								280	4142	256						
C168	STA 18+00 TO 26+00								256	3790	235						
C169	STA 26+00 TO END								288	4260	264						
	STREET TOTAL	0	0	0	0	0	0	0	824	12192	755	0	0	0	0	0	0
PIMLICO LANE																	
C170	STA 10+00 TO 18+00								276	3650	316		7				
C171	STA 18+00 TO 26+00								256	3385	293						
C172	STA 26+00 TO END								173	2293	199						
	STREET TOTAL	0	0	0	0	0	0	0	705	9328	808	0	0	7	0	0	0
CLYDESDALE CIRCLE																	
C173	STA 10+00 TO END								243	2827	223						
	STREET TOTAL	0	0	0	0	0	0	0	243	2827	223	0	0	0	0	0	0
TURF PARADISE LANE																	
C174	STA 10+00 TO 18+00								264	2325	363						
C175	STA 18+00 TO END								173	1526	238						
	STREET TOTAL	0	0	0	0	0	0	0	437	3851	601	0	0	0	0	0	0
	TOTAL	106	58	688	503	986	3	986	19964	140281	14342	6199	4772	158	15	12	224

REV. NO.	DATE	DESCRIPTION
1	8/10/16	REVISED QUANTITY



SAN ANTONIO | AUSTIN | HOUSTON | FORT WORTH | DALLAS
 3800 HWY LOOP 410 | SAN ANTONIO, TX 78218 | 210.376.5000
 TYPE FIRM REGISTRATION #4100 | TYPE LB FIRM REGISTRATION #17000000



FAIR OAKS RANCH ROADWAY RECONSTRUCTION
 AND WATER SYSTEM IMPROVEMENTS

**QUANTITY SUMMARIES
 ROADWAY**

DESIGNER: RS	DATE	CITY
CHECKED: SCD	JULY 2016	FAIR OAKS RANCH
DRAWN: JM	JOB NO.	
	8778-00	C012

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ROADWAY QUANTITIES

SHEET	STA TO STA	0666-6232	0672-6007	0672-6009	0678-6001	0678-6004	0678-6008	0678-6009	0678-6016	3003	XXX	3003-XXXX	0529-6005	0712-XXXX	110-2001
		PAVEMENT SEALER (WORD)	REFL PAV MRKR TY I-C	REFL PAV MRKR TY II-A-A	PAV SURF PREP FOR MRK (4")	PAV SURF PREP FOR MRK (8")	PAV SURF PREP FOR MRK (24")	PAV SURF PREP FOR MRK (ARROW)	PAV SURF PREP FOR MRK (WORD)	EMULSION TREATMENT (ROAD MIXED)	ASPHALT GEOGRID REINFORCEMENT	CEMENT	TY II CURB	PAVEMENT REPAIR	ROADWAY (EXCAVATION)
		EA	EA	EA	LF	LF	LF	EA	EA	SY	SY	TON	LF	SY	CY
WEMBLEY ROAD															
C161	STA 10+00 TO 18+00									1976					
C162	STA 18+00 TO END									1452					
	STREET TOTAL	0	0	0	0	0	0	0	0	3428	0	0	0	0	
SKY BLUE RIDGE															
C163	STA 10+00 TO 18+00									2038					
C164	STA 18+00 TO END									751					
	STREET TOTAL	0	0	0	0	0	0	0	0	2789	0	0	0	0	
SUNLAND ROAD															
C165	STA 10+00 TO 18+00									1953					
C166	STA 18+00 TO END									970					
	STREET TOTAL	0	0	0	0	0	0	0	0	2923	0	0	0	0	
DAPPER DAN DRIVE															
C167	STA 10+00 TO 18+00									2329					
C168	STA 18+00 TO 26+00									2332					
C169	STA 26+00 TO END									2598					
	STREET TOTAL	0	0	0	0	0	0	0	0	7259	0	0	0	0	
PIMLICO LANE															
C170	STA 10+00 TO 18+00									2299					
C171	STA 18+00 TO 26+00									2133					
C172	STA 26+00 TO END									1442					
	STREET TOTAL	0	0	0	0	0	0	0	0	5874	0	0	0	0	
CLYDESDALE CIRCLE															
C173	STA 10+00 TO END									2029					
	STREET TOTAL	0	0	0	0	0	0	0	0	2029	0	0	0	0	
TURF PARADISE LANE															
C174	STA 10+00 TO 18+00									1198					
C175	STA 18+00 TO END									1443					
	STREET TOTAL	0	0	0	0	0	0	0	0	2641	0	0	0	0	
	TOTAL	4	1006	548	56602	260	74	4	4	92502	55839	160	700	6907	265

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REV. NO.	DATE	DESCRIPTION
1	8/10/16	REVISED QUANTITY



SAN ANTONIO | AUSTIN | HOUSTON | FORT WORTH | DALLAS
 2800 HWY LOOP 410 | SAN ANTONIO, TX 78218 | 210.376.3000
 TYPE FIRM REGISTRATION #4100 | TYPE FIRM REGISTRATION #17000000



FAIR OAKS RANCH ROADWAY RECONSTRUCTION
 AND WATER SYSTEM IMPROVEMENTS

**QUANTITY SUMMARIES
 ROADWAY**

DESIGNER	DATE	CITY
RS	JULY 2016	FAIR OAKS RANCH
CHECKED:SCD	JOB NO.	
DRAWN: JM	8778-00	C014

DRAINAGE QUANTITIES

		0104-6017	0110-6002	0132-6003	0132-2003	0158-XXXX	0160-2003	0164-6003	0168-2001	0169-6001	0169-XXXXX	0400-6006	0401-6001	0402-6001	0420-XXXX	0423-6008
		REMOVING CONC (DRIVEWAYS)	EXCAVATION (CHANNEL)	EXCAVATION (SPECIAL)	EMBANKMENT (FINAL)(ORD COMP)(TY B)	SPECIALIZED EXCAVATION WORK	FURNISHING AND PLACING TOPSOIL(4IN)	BROADCAST SEED(PERM)(RURAL)(CLAY)	VEGETATIVE WATERING	SOIL RETENTION BLANKETS (CL1)(TY A)	TURF REINFORCEMENT MAT LANDLOK 450	CUT & RESTORING PAV	FLOWABLE BACKFILL	TRENCH EXCAVATION PROTECTION	CLASS C CONC (SBC MANHOLE RISER)	RETAINING WALL (CAST - IN - PLACE)
DRAINAGE STRUCTURES		SY	CY	CY	CY	HR	SY	SY	MG	SY	SY	SY	CY	LF	EA	SF
C205	CLVT 1					20						21	53			
C206	CLVT 13					20	14	14	0.2		14	10	15			
C207	CLVT15						34	34	0.5		34	12	11			
C208	CLVT 18					10	130	130	2.0		130		15			
C209	CLVT 23					10	78	78	1.2		78		13			
C210	CLVT 2 & 3					10	123	123	1.9	123						
C211	CLVT 4 & 5					10			0.0							
C212	CLVT 6 & 7					10	253	253	3.9	253						
C213	CLVT 8 & 9					10			0.0							
C214	CLVT 10, 11&12					10	106	106	1.7	106						
C215	CLVT 16					10			0.0							
	CULVERT TOTAL	0	0	0	0	120	738	738	12	482	256	43	107	0	0	0
FOUNTAINS SUBDIVISION LINE A																
C216	STA 9+79 TO 14+00		5		42	80	334	334	0.4	91	243	180	756	400		
C217	STA 14+00 TO END		25			80	205	205	0.3		205	118	373	293		
	FOUNTAINS ALT A TOTAL	0	30	0	42	160	539	539	1	91	448	298	1129	693	0	0
INTREPID DRAINAGE LINE B																
C218	STA 6+30 TO 10+00						460	460	0.6	460				380	1	
C219	STA 10+00 TO 14+00						440	440	0.6	440				380	1	
C220	STA 14+00 TO 18+00	129	30				445	445	0.6	445		31	85	400		
C221	STA 18+00 TO END					20	380	380	0.5	380				300		912
	INTREPID TOTAL	129	30	43	0	20	1725	1725	2	1725	0	31	85	1460	2	912
FOUNTAINS SUBDIVISION LINE C																
C222	STA 10+00 TO 14+20					40	995	995	1.3	995				114		
C223	STA 14+20 TO 18+40					40	995	995	1.3	995				440		
C224	STA 18+40 TO 22+80					40	995	995	1.3	995				440		
C225	STA 22+80 TO END						995	995	1.3	995				23		
	FOUNTAINS ALT TOTAL	0	0	0	0	120	3980	3980	5	3980	0	0	0	1017	0	0
SLUMBERWOOD TRENCH DRAIN																
C226	STA 10+00 TO END															
	SLUMBERWOOD TOTAL	0	0	0	0	0					0	0	0	0	0	0
	DRAINAGE TOTAL (EXCLUDES LINE C)	129	60	43	42	300	3002	3002	14	2298	704	372	1321	2153	2	912

REV. NO.	DATE	DESCRIPTION
1	8/10/16	ITEM ADDED/REVISED QUANTITY

PAPE-DAWSON ENGINEERS
 SAN ANTONIO | AUSTIN | HOUSTON | FORT WORTH | DALLAS
 3800 HWY LOOP 410 | SAN ANTONIO, TX 78218 | 210.376.3000
 TYPE FIRM REGISTRATION #430 | TOLP FIRM REGISTRATION #7000000



FAIR OAKS RANCH ROADWAY RECONSTRUCTION AND WATER SYSTEM IMPROVEMENTS

QUANTITY SUMMARIES DRAINAGE

	DATE	CITY
DESIGNER: RS	JULY 2016	FAIR OAKS RANCH
CHECKED: SCD	JOB NO.	
DRAWN: JM	8778-00	C015

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DRAINAGE QUANTITIES

		0432-6003	0432-6017	0432-6019	0460-6003	0460-6009X	0460-6009	0460-6009A	0460-6010	0460-XXXX	0462-6002	0462-6004	0462-6010	0464-6005	0464-6008	0464-6009	0465-2009	0465-2009	0465-6076
		RIPRAP (CONC)(6 IN)	RIPRAP (STONE TY R)(DRY)(12 IN)	RIPRAP (STONE TY F)(GROUT)(12 IN)	CMP (GAL STL 24 IN)	CMP AR (GAL STL DES 1)	CMP AR (GAL STL DES 2)	CMP AR (GAL STL DES 2A)	CMP AR (GAL STL DES 3)	CMP AR (GAL STL DES 6) REHAB	CONC BOX CULV (3 FT X 3 FT)	CONC BOX CULV (4 FT X 3 FT)	CONC BOX CULV (6 FT X 3 FT)	RC PIPE (CL III)(24 IN)	RC PIPE (CL III)(36 IN)	RC PIPE (CL III)(42 IN)	JCTBOX(CO MPL)(PJB)(R C)(5FTX5FT)	INLET (COMPL)(P SL)(RC)(4FT X4FT)	INLET (COMPL)(P SL)(RC)(6FTX 6FT)
DRAINAGE STRUCTURES		CY	CY	CY	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	EA	EA	EA
C205	CLVT 1			34								70							
C206	CLVT 13			7			4		39										
C207	CLVT15	4		6					42										
C208	CLVT 18										41								
C209	CLVT 23												44						
C210	CLVT 2 & 3							13											
C211	CLVT 4 & 5			15				8											
C212	CLVT 6 & 7					4	4												
C213	CLVT 8 & 9					4													
C214	CLVT 10, 11&12						8												
C215	CLVT 16						4			52									
	CULVERT TOTAL	4	0	62	0	8	33	8	81	52	41	70	0	44	0	0	0	0	0
FOUNTAINS SUBDIVISION LINE A																			
C216	STA 9+79 TO 14+00	17	42												411		1		
C217	STA 14+00 TO END	17													283			2	
	FOUNTAINS ALT A TOTAL	34	42	0	0	0	0	0	0	0	0	0	0	0	694	0	1	2	0
INTREPID DRAINAGE LINE B																			
C218	STA 6+30 TO 10+00																		
C219	STA 10+00 TO 14+00				20						216								
C220	STA 14+00 TO 18+00				21														1
C221	STA 18+00 TO END	81			25														3
	INTREPID TOTAL	81	0	0	66	0	0	0	0	0	0	0	0	0	0	0	0	0	4
FOUNTAINS SUBDIVISION LINE C																			
C222	STA 10+00 TO 14+20	68													114				
C223	STA 14+20 TO 18+40														411			1	1
C224	STA 18+40 TO 22+80														427			2	1
C225	STA 22+80 TO END	34													23				
	FOUNTAINS ALT TOTAL	102	0	0	0	0	0	0	0	0	0	0	0	0	975	0	0	3	2
SLUMBERWOOD TRENCH DRAIN																			
C226	STA 10+00 TO END																		
	SLUMBERWOOD TOTAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
DRAINAGE TOTAL (EXCLUDES LINE C)		119	42	62	66	8	33	8	81	52	41	286	412	44	694	820	1	2	4

REV. NO.	DATE	DESCRIPTION
1	8/10/16	ADDED DRAINAGE TOTALS



SAN ANTONIO | AUSTIN | HOUSTON | FORT WORTH | DALLAS
 3800 HWY LOOP 410 | SAN ANTONIO, TX 78218 | 210.376.5000
 TYPE FIRM REGISTRATION #4100 | TOPOLIS FIRM REGISTRATION #17000000



FAIR OAKS RANCH ROADWAY RECONSTRUCTION AND WATER SYSTEM IMPROVEMENTS

QUANTITY SUMMARIES DRAINAGE

	DATE	CITY
DESIGNER:RS	JULY 2016	FAIR OAKS RANCH
CHECKED:SCD	JOB NO.	
DRAWN:JM	8778-00	C016

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DRAINAGE QUANTITIES

		0465-6127	0465-6135	0466-6109	0466-XXXX	0466-6110	0466-6111	0466-6180	0466-6182	0466-XXXX	0467-634X	0467-XXXX	0467-XXXX	0467-6525	0467-6547	0467-6111	0467-6217
		INLET (COMPL)(PS L)(FG)(4FTX4 FT-3FTX3FT)	INLET (COMPL)(PS L)(FG)(5FTX5 FT-4FTX4FT)	HEADWALL(CH -PW-0)(DES=2)	HEADWALL (CH-PW-0)(DES=2A)	HEADWALL (CH-PW-0)(DES=3)	HEADWALL (CH-PW-0)(DES=4)	WINGWALL (PW - 1) (HW=5 FT)	WINGWALL (PW - 1) (HW=7 FT)	STONE MASONRY	SET (TY II)(18 IN)(CMP)(3:1)	SET (TY II)(DES 1)(CMP)(4:1) (P)	SET (TY II)(DES 1)(CMP)(6:1) (P)	SET (TY II)(DES 2)(CMP)(6:1) (P)	SET (TY II)(DES 4)(CMP)(4:1) ©	SET (TY I)(S=3 FT)(HW= 4 FT)(3:1)(C)	SET (TY I)(S= 6 FT)(HW= 5 FT)(3:1) (C)
DRAINAGE STRUCTURES		EA	EA	EA	EA	EA	EA	EA	EA	SF	EA	EA	EA	EA	EA	EA	EA
C205	CLVT 1							3		468						1	
C206	CLVT 13			2		1				113							
C207	CLVT15					2				78							
C208	CLVT 18								2								
C209	CLVT 23																
C210	CLVT 2 & 3						2			90			2				
C211	CLVT 4 & 5				4					420				2			
C212	CLVT 6 & 7									180		2	2				
C213	CLVT 8 & 9									44		2					
C214	CLVT 10, 11&12			4						255			2				
C215	CLVT 16																
	CULVERT TOTAL	0	0	6	4	3	2	3	2	1648	0	2	2	6	2	1	0
FOUNTAINS SUBDIVISION LINE A																	
C216	STA 9+79 TO 14+00																
C217	STA 14+00 TO END	2															
	FOUNTAINS ALT A TOTAL	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
INTREPID DRAINAGE LINE B																	
C218	STA 6+30 TO 10+00																1
C219	STA 10+00 TO 14+00																1
C220	STA 14+00 TO 18+00										2						
C221	STA 18+00 TO END		1								4						
	INTREPID TOTAL	0	1	0	0	0	0	0	0	0	6	0	0	0	0	0	2
FOUNTAINS SUBDIVISION LINE C																	
C222	STA 10+00 TO 14+20																
C223	STA 14+20 TO 18+40																
C224	STA 18+40 TO 22+80																
C225	STA 22+80 TO END																
	FOUNTAINS ALT TOTAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SLUMBERWOOD TRENCH DRAIN																	
C226	STA 10+00 TO END																
	SLUMBERWOOD TOTAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
DRAINAGE TOTAL (EXCLUDES LINE C)		2	1	6	4	3	2	3	2	1648	6	2	2	6	2	1	2

REV. NO.	DATE	DESCRIPTION
1	8/10/16	ADDED DRAINAGE TOTALS

PAPE-DAWSON ENGINEERS
 SAN ANTONIO | AUSTIN | HOUSTON | FORT WORTH | DALLAS
 3800 HWY LOOP 410 | SAN ANTONIO, TX 78218 | 210.376.5000
 TYPE FIRM REGISTRATION #4100 | TYPE LB FIRM REGISTRATION #17000000



FAIR OAKS RANCH ROADWAY RECONSTRUCTION AND WATER SYSTEM IMPROVEMENTS

QUANTITY SUMMARIES DRAINAGE

	DATE	CITY
DESIGNER: RS	JULY 2016	FAIR OAKS RANCH
CHECKED: SCD	JOB NO.	
DRAWN: JM	8778-00	C017A

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DRAINAGE QUANTITIES

		0752-6005	0752-6006	0752-6007
		TREE REMOVAL (4"-12" DIA)	TREE REMOVAL (12"-18" DIA)	TREE REMOVAL (18"-24" DIA)
DRAINAGE STRUCTURES		EA	EA	EA
C205	CLVT 1			
C206	CLVT 13			
C207	CLVT15			
C208	CLVT 18			
C209	CLVT 23			
C210	CLVT 2 & 3			
C211	CLVT 4 & 5			
C212	CLVT 6 & 7			
C213	CLVT 8 & 9			
C214	CLVT 10, 11&12			
C215	CLVT 16			
	CULVERT TOTAL	0	0	0
FOUNTAINS SUBDIVISION LINE A				
C216	STA 9+79 TO 14+00			
C217	STA 14+00 TO END			
	FOUNTAINS ALT A TOTAL	0	0	0
INTREPID DRAINAGE LINE B				
C218	STA 6+30 TO 10+00			
C219	STA 10+00 TO 14+00			
C220	STA 14+00 TO 18+00			
C221	STA 18+00 TO END			
	INTREPID TOTAL	0	0	0
FOUNTAINS SUBDIVISION LINE C				
C222	STA 10+00 TO 14+20	16	2	2
C223	STA 14+20 TO 18+40	14	1	
C224	STA 18+40 TO 22+80	21	1	
C225	STA 22+80 TO END			
	FOUNTAINS ALT TOTAL	51	4	2
SLUMBERWOOD TRENCH DRAIN				
C226	STA 10+00 TO END			
	SLUMBERWOOD TOTAL	0	0	0
DRAINAGE TOTAL (EXCLUDES LINE C)		0	0	0

REV. NO.	DATE	DESCRIPTION
1	8/10/16	SHEET ADDED TO SET



SAN ANTONIO | AUSTIN | HOUSTON | FORT WORTH | DALLAS
 2800 HWY LOOP 410 | SAN ANTONIO, TX 78218 | 210.376.5000
 TYPE FIRM REGISTRATION #4130 | TYPE-L FIRM REGISTRATION #70000000



FAIR OAKS RANCH ROADWAY RECONSTRUCTION
AND WATER SYSTEM IMPROVEMENTS

QUANTITY SUMMARIES DRAINAGE

	DATE	CITY
DESIGNER: RS	JULY 2016	FAIR OAKS RANCH
CHECKED: SCD	JOB NO.	
DRAWN: JM	6778-00	C017B

WATERLINE QUANTITIES

SHEET	STA TO STA	818.2	824	824.1	824.2	828	828.1	828.2	833	834.1	836	841	840	844.1	846	0400-2006	0500-2009	0164-6003	
		12" PVC WATERLINE	RELAY 2" SHORT SERVICE	NEW 2" LONG SERVICE	NEW 2" SHORT SERVICE	4" GATE VALVES	6" GATE VALVES	12" GATE VALVES	EXISTING METER AND METER BOX RELOCATION	FIRE HYDRANTS	PIPE FITTINGS, ALL SIZES AND TYPES	HYDROSTATIC TESTING OPERATIONS	12" WATER TIE-INS	2" BLOWOFF, TEMPORARY	2" AIR RELEASE ASSEMBLIES	CUT & RESTORING PAV	CONC DRIVEWAY	BROADCAST SEED(PERM)(RURAL)(CLAY)	
		LF		EA	EA	EA	EA	EA	EA	EA	TON	EA	EA	EA	EA	SY	SY	SY	
FAIR OAKS PARKWAY																			
C301	STA 10+00 TO 19+50	950	2			1	1	1			0.3	1	1	1			50	422	
C302	STA 19+50 TO 27+50	800								1	0.2						73	355	
C303	STA 27+50 TO 35+50	800						2	2	1	0.3			1				355	
C304	STA 35+50 TO 44+00	900	1								0.0	1					70	400	
C305	STA 44+00 TO 52+00	800	2				1	2		1	0.1						115	355	
C306	STA 52+00 TO END	455						2			0.4	1	1	1		28		202	
	STREET TOTAL	4705	5	0	0	1	2	7	2	3	1	3	2	2	1	28	308	2089	
SILVER SPUR TRAIL - INTREPID																			
C307	STA 10+00 TO 18+00	800	2					2		1	0.5	1	1	1	1			355	
C308	STA 18+00 TO 26+00	800	1			1		1		1	0.2							355	
C309	STA 26+00 TO 34+00	800	4							1							71	355	
C310	STA 34+00 TO 41+50	750	1			1	1	2			0.6	1			16			333	
C311	STA 41+50 TO 49+00	750	1					1		1	0.3							333	
C312	STA 49+00 TO 57+00	800	4					2		1	0.1						226	355	
C313	STA 57+00 TO END	351	1			1		2			0.2	1	1	1			39	156	
	STREET TOTAL	5051	14	0	0	3	1	10	0	5	2	3	2	2	1	16	336	2243	
AMANN ROAD																			
C314	STA 10+00 TO 18+00	850			1			1			0.2	1	1	1	1	101		377	
	STREET TOTAL	850	0	0	1	0	0	1	0	0	0.2	1	1	1	1	101	0	377	
AMANN ROAD - ROLLING ACRES TRAIL																			
C315	STA 18+00 TO 26+50	850						5		1	0.9			1		165		377	
	STREET TOTAL	850	0	0	0	0	0	5	0	1	1	0	0	1	0	165	0	377	
ROLLING ACRES TRAIL																			
C316	STA 26+50 TO 34+00	750		1	1			1									138	333	
C317	STA 34+00 TO 42+00	800		1	1			2		1							66	355	
C318	STA 42+00 TO 50+00	800		1				1		1							95	355	
	STREET TOTAL	2350	0	3	2	0	0	4	0	2	0	0	0	0	0	0	299	1043	
ROLLING ACRES - MEADOW CREEK TRAIL																			
C319	STA 50+00 TO 58+00	800			2			3		1	0.3			1		6		355	
	STREET TOTAL	800	0	0	2	0	0	3	0	1	0.3	0	0	1	0	6	0	355	
MEADOW CREEK TRAIL																			
C320	STA 58+00 TO 66+50	850		1	1			1		1	0.3						140	377	
C321	STA 66+50 TO 74+00	750		1	1			0			0.1						45	333	
C322	STA 74+00 TO 82+00	800		1	1			1		1								355	
C323	STA 82+00 TO 90+00	800		1	1			1		1								355	
C324	STA 90+00 TO 98+00	800		1	1			2		1								355	
C325	STA 98+00 TO 106+50	850		1	1			0				1	1	1			55	377	
C326	STA 106+50 TO END	225						1				1	1	1			35	100	
	STREET TOTAL	5075	0	6	6	0	0	6	0	4	0.4	1	1	1	0	0	275	2253	
	TOTAL	19681	19	9	11	4	3	36	2	16	5	8	6	8	3	316	1218	8738	

REV. NO.	DATE	DESCRIPTION
1	8/10/16	ITEM ADDED/REVISED QUANTITY



SAN ANTONIO | AUSTIN | HOUSTON | FORT WORTH | DALLAS
 3800 HWY LOOP 410 | SAN ANTONIO, TX 78218 | 210.376.3000
 TYPE FIRM REGISTRATION #4100 | TOLLS FIRM REGISTRATION #17000000



FAIR OAKS RANCH ROADWAY RECONSTRUCTION AND WATER SYSTEM IMPROVEMENTS

QUANTITY SUMMARIES WATERLINE

DESIGNER	DATE	CITY
RS	JULY 2016	FAIR OAKS RANCH
CHECKED	JOB NO.	
SCD		
DRAWN	DATE	
JM	8/7/16	C018A

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THIS DOCUMENT HAS BEEN PRODUCED FROM MATERIAL THAT WAS STORED AND/OR TRANSMITTED ELECTRONICALLY AND MAY HAVE BEEN INADVERTENTLY ALTERED. RELY ONLY ON FINAL HARDCOPY MATERIALS BEARING THE CONSULTANT'S ORIGINAL SIGNATURE AND SEAL.

WATERLINE QUANTITIES

SHEET	STA TO STA	856.1 JACKING, BORING, OR TUNNELING 24"	856.2 12" CARRIER PIPE FOR JACKING, BORING, OR TUNNELING	856.3 CASING OR LINER 24"	192-XXX LANDSCAPE RESTORATION	550 TRENCH EXCAVATION SAFETY PROTECTION	0500-2009 ASPHALT DRIVEWAY
		LF	LF	LF	EA	LF	SY
FAIR OAKS PARKWAY							
C301	STA 10+00 TO 19+50	180	180	180	1	200	74
C302	STA 19+50 TO 27+50				1	200	
C303	STA 27+50 TO 35+50	95	95	95		200	259
C304	STA 35+50 TO 44+00					200	36
C305	STA 44+00 TO 52+00				1	200	
C306	STA 52+00 TO END					200	
	STREET TOTAL	275	275	275	3	1200	369
SILVER SPUR TRAIL - INTREPID							
C307	STA 10+00 TO 18+00					200	211
C308	STA 18+00 TO 26+00					200	38
C309	STA 26+00 TO 34+00				1	200	88
C310	STA 34+00 TO 41+50					200	101
C311	STA 41+50 TO 49+00					200	
C312	STA 49+00 TO 57+00					200	
C313	STA 57+00 TO END				1	200	
	STREET TOTAL				2	1400	438
AMANN ROAD							
C314	STA 10+00 TO 18+00					200	79
	STREET TOTAL					200	79
AMANN ROAD - ROLLING ACRES TRAIL							
C315	STA 18+00 TO 26+50				1	200	100
	STREET TOTAL				1	200	100
ROLLING ACRES TRAIL							
C316	STA 26+50 TO 34+00					200	46
C317	STA 34+00 TO 42+00					200	
C318	STA 42+00 TO 50+00					200	
	STREET TOTAL					600	46
ROLLING ACRES - MEADOW CREEK TRAIL							
C319	STA 50+00 TO 58+00					200	37
	STREET TOTAL					200	37
MEADOW CREEK TRAIL							
C320	STA 58+00 TO 66+50					200	59
C321	STA 66+50 TO 74+00					200	76
C322	STA 74+00 TO 82+00					200	51
C323	STA 82+00 TO 90+00					200	64
C324	STA 90+00 TO 98+00					200	128
C325	STA 98+00 TO 106+50					200	
C326	STA 106+50 TO END					200	
	STREET TOTAL					1400	378
	TOTAL	175	175	175	6	5200	1447

REV. NO.	DATE	DESCRIPTION
1	8/10/16	ITEM ADDED/REVISED QUANTITY



SAN ANTONIO | AUSTIN | HOUSTON | FORT WORTH | DALLAS
 2000 HW LOOP 410 | SAN ANTONIO, TX 78216 | 210.376.5000
 TYPE FIRM REGISTRATION #4130 | TOLPES FIRM REGISTRATION #70000000



FAIR OAKS RANCH ROADWAY RECONSTRUCTION
 AND WATER SYSTEM IMPROVEMENTS

QUANTITY SUMMARIES WATERLINE

DESIGNER	DATE	CITY
RS	JULY 2016	FAIR OAKS RANCH
CHECKED:SCD	JOB NO.	
DRAWN: JM	6778-00	C018B

LANDSCAPE RESTORATION



9044 FAIR OAKS PARKWAY
LANDSCAPE: LARGE ROCKS, MULCH, SMALL TREES AND MAILBOX



8940 FAIR OAKS PARKWAY
LANDSCAPE: 168 L.F. ROCK XERISCAPE, DESERT LANDSCAPE, BUSHES



INTERSECTION OF HERITAGE TRAIL AND FAIR OAKS PARKWAY
LANDSCAPE: MULCH ON CORNERS, HERITAGE TREE



7660 INTREPID DRIVE
LANDSCAPE: 62 L.F. OF XERISCAPE AROUND DRIVEWAY



8626 FAIR OAKS PARKWAY
LANDSCAPE: ROCK/CONCRETE RIPRAP, POTENTIAL IRRIGATION PIPING



INTERSECTION OF ROLLING ACRES TRAIL AND AMMANN ROAD
LANDSCAPE: LARGE ROCK LANDSCAPE WITH DESERT VEGETATION



30911 SILVER SPUR TRAIL
LANDSCAPE: XERISCAPE AND DESERT LANDSCAPE NEXT TO DRIVEWAY

NOTE:

THE ADDRESSES SHOWN HERE, ALONG WITH THE LANDSCAPE ARE AREAS LOCATED BETWEEN THE RIGHT OF WAY AND EXISTING EDGE OF PAVEMENT. THE CITY OF FAIR OAKS RANCH INTENDS FOR THE CONTRACTOR TO REESTABLISH THESE SIX LANDSCAPE AREAS ONCE CONSTRUCTION IS COMPLETED. THESE AREAS HAVE BEEN ITEMIZED (ITEM NO 192-XXX) BY THE EACH ACCORDING TO PROPERTY ADDRESS. THERE WILL NOT BE ANY LANDSCAPE RESTORATION EXCLUDING THESE SIX AREAS WITHIN THE PROJECT LIMITS.

REV. NO.	DATE	DESCRIPTION
1	8/10/16	LANDSCAPING PHOTOS/LOCATIONS ADDED

PAPE-DAWSON ENGINEERS

SAN ANTONIO | AUSTIN | HOUSTON | FORT WORTH | DALLAS
2000 NEW LOOP 410 | SAN ANTONIO, TX 78216 | 210.376.5000
TYPE FIRM REGISTRATION #4130 | TOPOLIS FIRM REGISTRATION #17000000

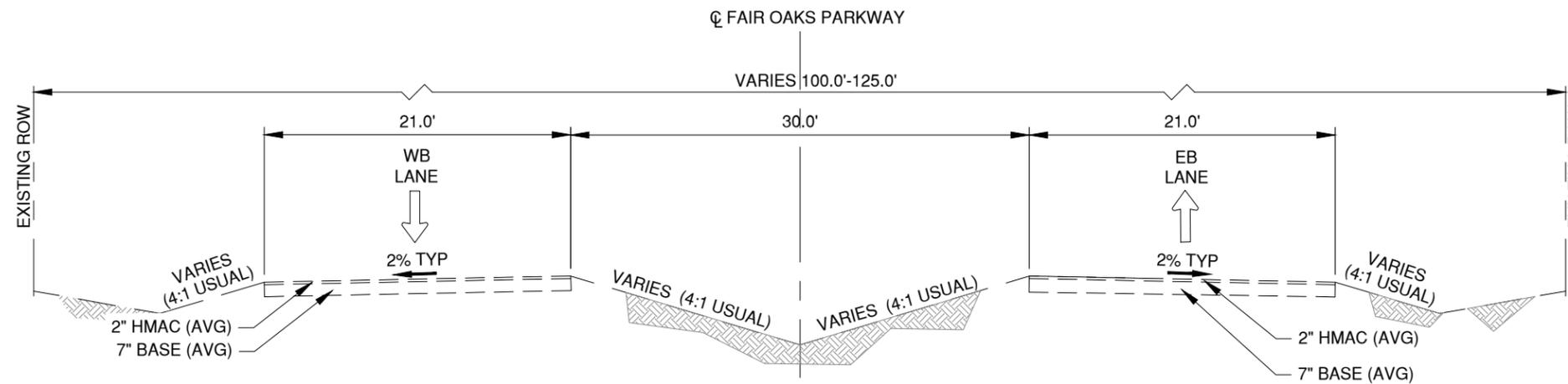


FAIR OAKS RANCH ROADWAY RECONSTRUCTION AND WATER SYSTEM IMPROVEMENTS

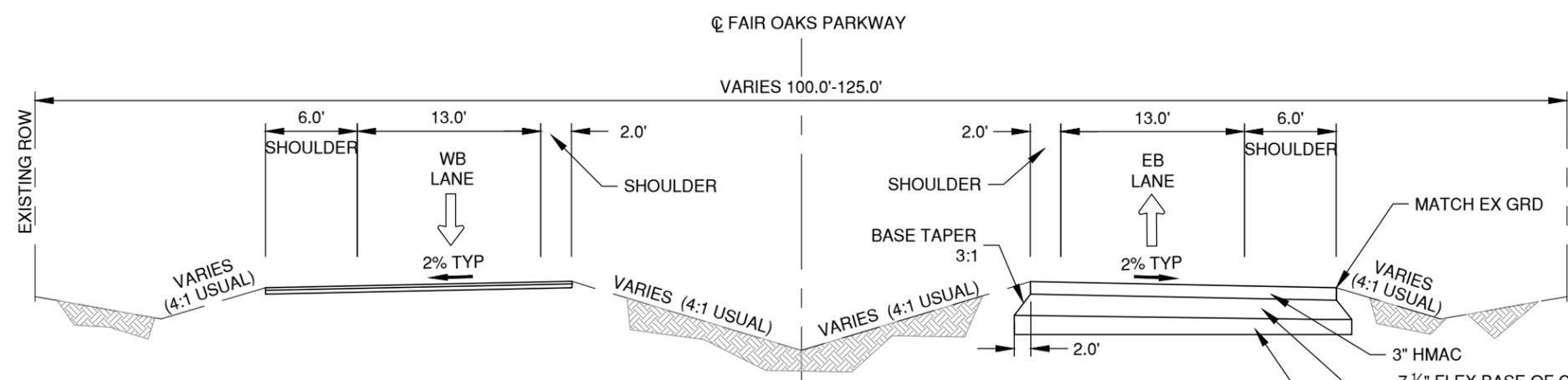
QUANTITY SUMMARIES WATERLINE

	DATE	CITY
DESIGNER:RS	JULY 2016	FAIR OAKS RANCH
CHECKED:SCD	JOB NO.	
DRAWN:JM	6778-00	C018C

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FAIR OAKS PARKWAY EXISTING
STA 10+00.00 TO STA 123+15.00



FAIR OAKS PARKWAY PROPOSED FULL RECONSTRUCTION
STA 77+15 TO STA 80+85



REV. NO.	DATE	DESCRIPTION
1	8/10/16	Revised Stations

PAPE-DAWSON ENGINEERS

SAN ANTONIO | AUSTIN | HOUSTON | FORT WORTH | DALLAS
 2800 NEW LOOP 410 | SAN ANTONIO, TX 78218 | 210.376.5000
 TYPE FIRM REGISTRATION #4130 | TYPE LB FIRM REGISTRATION #17000000



FAIR OAKS RANCH ROADWAY RECONSTRUCTION AND WATER SYSTEM IMPROVEMENTS

ROADWAY TYPICALS FULL RECONSTRUCTION FAIR OAKS PARKWAY

DESIGNER	DATE	CITY
RS	JULY 2016	FAIR OAKS RANCH
SCD	JOB NO.	
JM	8778-00	C045

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NOTES:

CONTRACTOR TO REBUILD ALL EXISTING FEATURES (INCLUDING MAILBOXES) DAMAGED DURING CONSTRUCTION BACK TO PRE-CONSTRUCTION CONDITIONS AT CONTRACTOR'S EXPENSE.

CALL TEXAS STATE WIDE ONE CALL LOCATOR NUMBER 1-800-344-8377, 48 HOURS BEFORE ANY EXCAVATION.

DUE TO FEDERAL REGULATIONS TITLE 49, PART 192.181, THE CONTRACTOR MUST MAINTAIN ACCESS TO ANY GAS VALVES AT ALL TIMES. THE CONTRACTOR MUST PROTECT AND WORK AROUND ANY GAS VALVES THAT ARE IN THE PROJECT AREA.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING OVERHEAD AND UNDERGROUND ELECTRIC FACILITIES IF ADJACENT TO WORK AREAS.

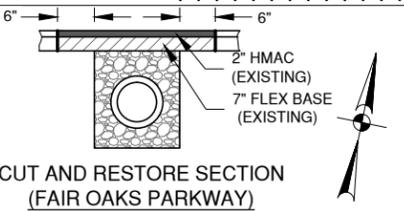
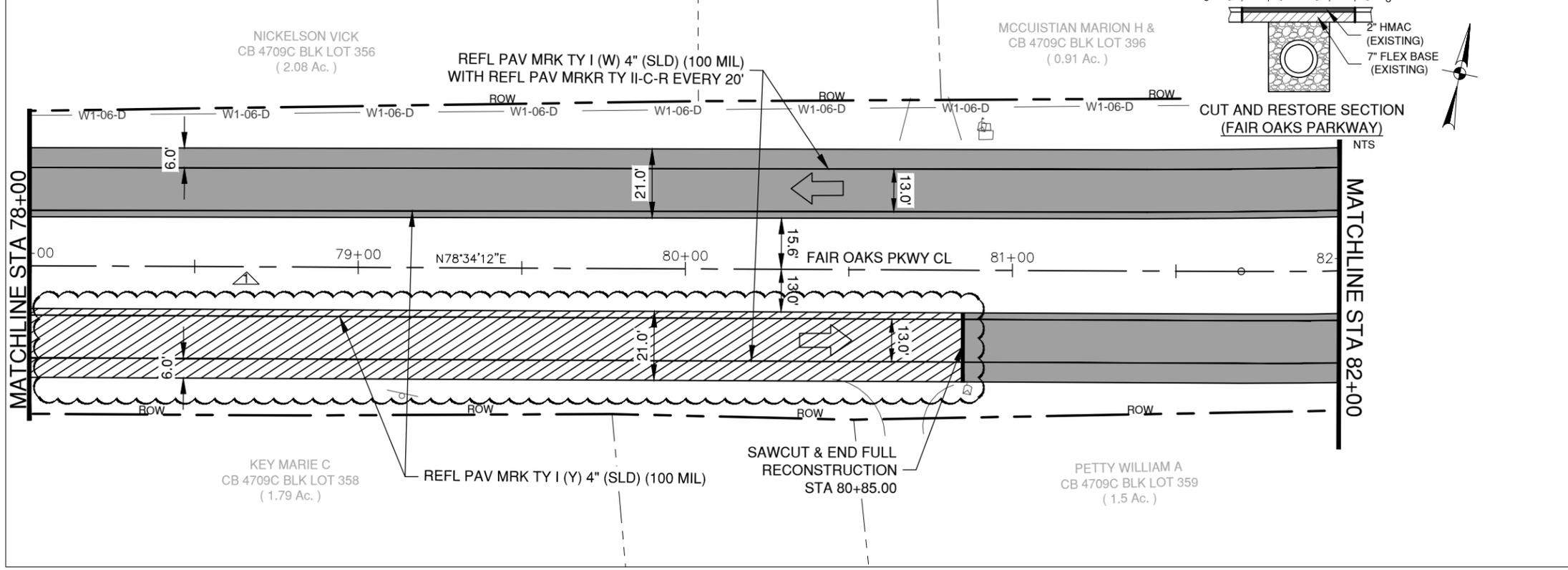
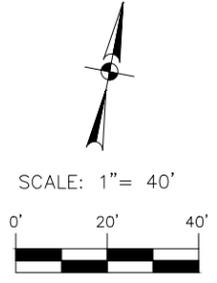
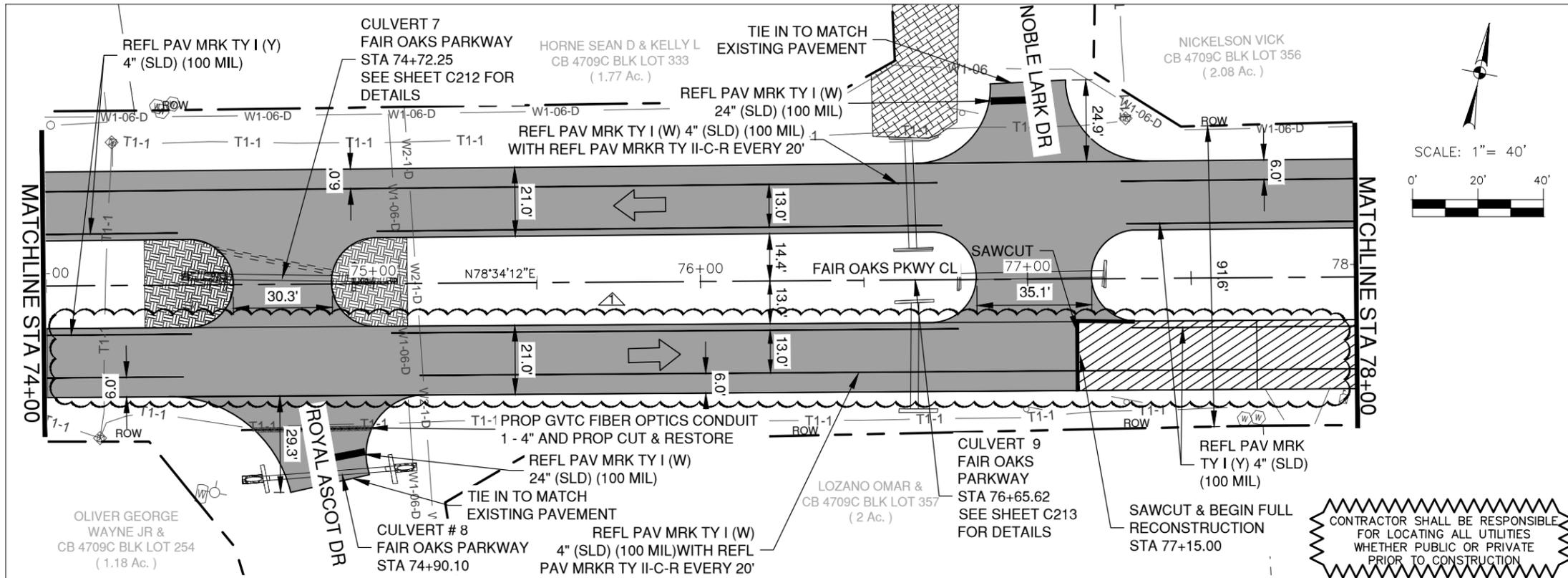
THE CONTRACTOR SHALL BE RESPONSIBLE TO CONTACT UTILITY COMPANIES FOR ACCURATE LOCATION, UTILITIES SHOWN ON PLANS ARE APPROXIMATE ONLY.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING AND BRACING ALL UTILITY POLES DURING INSTALLATION OF DRAINAGE FACILITIES. NO SEPARATE PAY ITEM.

A 2'0" CUT BACK WILL BE MADE FOR ALL SET'S TO BE REPLACED, THE 2.0' IS MEASURED FROM THE FACE OF EXISTING HEADWALL/SET.

THE CONTRACTOR SHALL INSTALL DROUGHT TOLERANT SEEDING AS PER TXDOT ITEM #164 (SA DISTRICT) FOR ALL TRENCH RESTORATION. EROSION CONTROL SODDING (ITEM #162) WILL BE USED ONLY IN THE DOWNSTREAM PORTION OF CULVERT 13 (THE FOUNTAINS).

THE CONTRACTOR WILL PROVIDE NORTHING AND EASTING FOR ALL GVTC CONDUIT LOCATIONS.



REV. NO.	DATE	DESCRIPTION
1	8/10/16	AREA OF FULL RECONSTRUCTION REVISED



PAPE-DAWSON ENGINEERS
 SAN ANTONIO | AUSTIN | HOUSTON | FORT WORTH | DALLAS
 2800 NEW LOOP 410 | SAN ANTONIO, TX 78218 | 210.376.5000
 TYPE FIRM REGISTRATION #410 | TYPE L.F. REGISTRATION #17000000

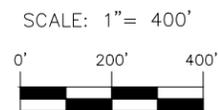


FAIR OAKS RANCH ROADWAY RECONSTRUCTION AND WATER SYSTEM IMPROVEMENTS
 ROADWAY PLAN OVERLAY

FAIR OAKS PARKWAY
 STA 74+00 TO 82+00

DESIGNER:	DATE:	CITY:
RS	JULY 2016	FAIR OAKS RANCH
SCD	JOB NO.	
JM	8778-00	C109

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MATCHLINE STA 65+00



PAVEMENT REPAIR NOTES:

POTHOLE AND PATCHWORK FAILING REPAIR (REF. SHEET C187)
 SAW CUT AND REMOVE DAMAGED AREA MATERIAL (APPROXIMATELY 3" LATERALLY BEYOND AND 1" DEEPER). BACKFILL HOLE WITH HMAC AND BASE MATERIALS (IF NEEDED) DESCRIBED IN SHEET C045. BASE MATERIAL TO BE USED UP TO 2" BELOW GRADE.

CRACKING (ALLIGATOR, LONGITUDINAL, TRANSVERSE)
 REMOVE DAMAGED AREA (APPROXIMATE DIMENSIONS GIVEN IN SHEETS C187 AND C188 TABLE) MATERIAL DOWN TO SUBGRADE, APPROXIMATELY 9" ON AVERAGE.
 PREPARE SUBGRADE AND BACKFILL HOLE WITH HMAC AND BASE MATERIALS AS DESCRIBED IN SHEET C045. BASE MATERIAL TO BE USED UP TO 2" BELOW GRADE.



Steven C. Dean
 STEVEN C. DEAN, P.E.
 DATE

REV. NO.	DATE	DESCRIPTION
1	8/10/16	NOTE ADDED

Pape-Dawson Engineers

SAN ANTONIO | AUSTIN | HOUSTON | FORT WORTH | DALLAS
 2800 NEW LOOP 410 | SAN ANTONIO, TX 78218 | 210.376.5000
 TYPE FIRM REGISTRATION #410 | TOPIC FIRM REGISTRATION #17000000



FAIR OAKS RANCH ROADWAY RECONSTRUCTION
 AND WATER SYSTEM IMPROVEMENTS

**PAVEMENT REPAIR
 ITEM DESCRIPTION**

	DATE	CITY
DESIGNER: RS	JULY 2016	FAIR OAKS RANCH
CHECKED: SCD	JOB NO.	
DRAWN: JM	8778-00	C184

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MATCHLINE STA 65+00



SCALE: 1" = 400'



PAVEMENT REPAIR NOTES:

POTHOLE AND PATCHWORK FAILING REPAIR (REF. SHEET C187)
 SAW CUT AND REMOVE DAMAGED AREA MATERIAL
 (APPROXIMATELY 3" LATERALLY BEYOND AND 1" DEEPER).
 BACKFILL HOLE WITH HMAC AND BASE MATERIALS (IF
 NEEDED) DESCRIBED IN SHEET C045. BASE MATERIAL TO BE
 USED UP TO 2" BELOW GRADE.

CRACKING (ALLIGATOR, LONGITUDINAL, TRANSVERSE)
 REMOVE DAMAGED AREA (APPROXIMATE DIMENSIONS GIVEN
 IN SHEETS C187 AND C188 TABLE) MATERIAL DOWN TO
 SUBGRADE, APPROXIMATELY 9" ON AVERAGE.
 PREPARE SUBGRADE AND BACKFILL HOLE WITH HMAC AND
 BASE MATERIALS AS DESCRIBED IN SHEET C045. BASE
 MATERIAL TO BE USED UP TO 2" BELOW GRADE.



Steven C. Dean
 STEVEN C. DEAN, P.E.
 8/10/2016
 DATE

REV. NO.	DATE	DESCRIPTION
1	8/10/16	NOTE ADDED



SAN ANTONIO | AUSTIN | HOUSTON | FORT WORTH | DALLAS
 2000 NEW LOOP 410 | SAN ANTONIO, TX 78215 | 210.370.5000
 TYPE FIRM REGISTRATION #4100 | TYPE FIRM REGISTRATION #17000000

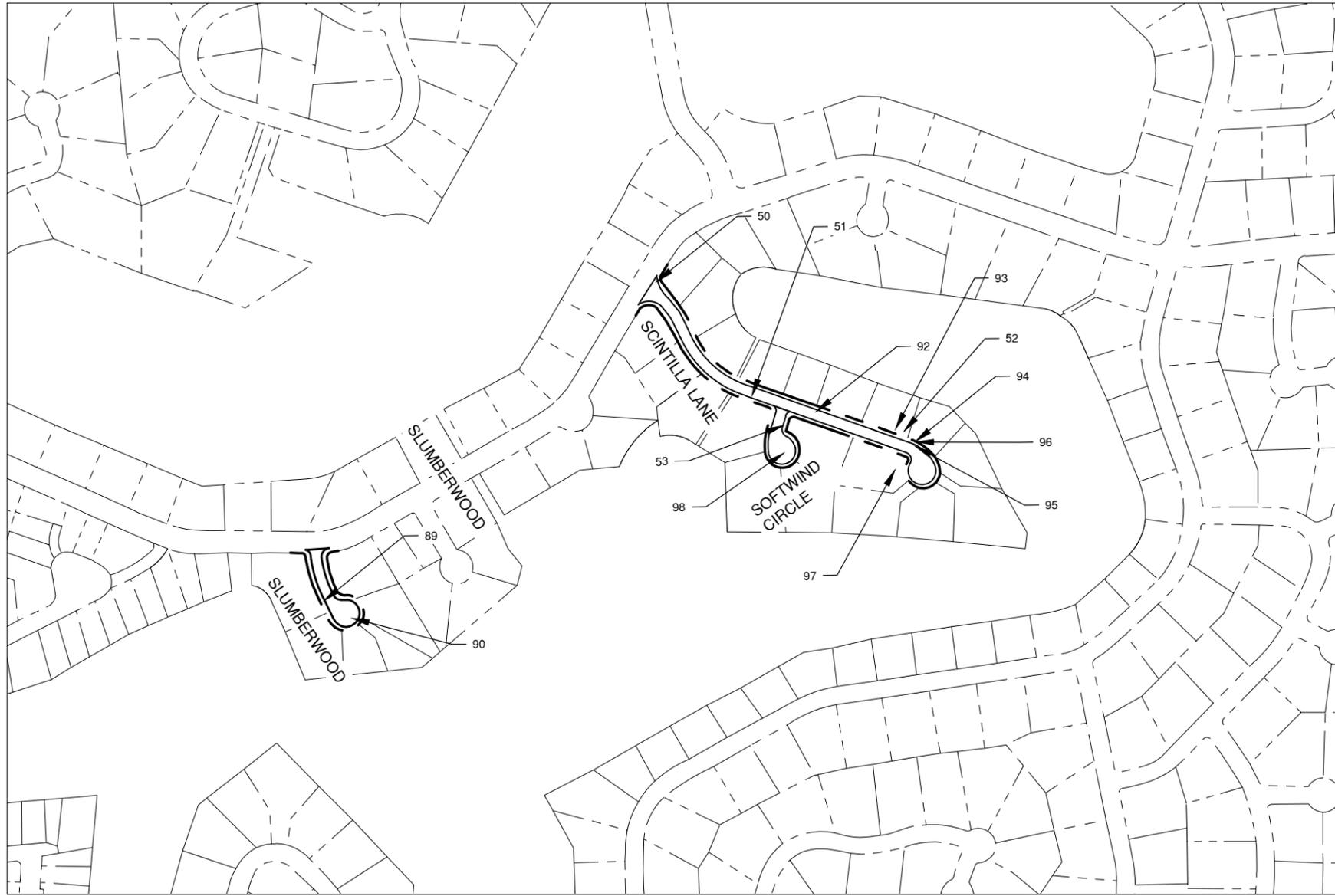
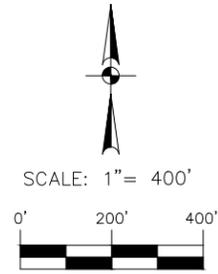


FAIR OAKS RANCH ROADWAY RECONSTRUCTION
 AND WATER SYSTEM IMPROVEMENTS

PAVEMENT REPAIR
 ITEM DESCRIPTION

	DATE	CITY
DESIGNER: RS	JULY 2016	FAIR OAKS RANCH
CHECKED: SCD	JOB NO.	
DRAWN: JM	8778-00	C185

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PAVEMENT REPAIR NOTES:

POTHOLE AND PATCHWORK FAILING REPAIR (REF. SHEET C187)
 SAW CUT AND REMOVE DAMAGED AREA MATERIAL (APPROXIMATELY 3" LATERALLY BEYOND AND 1" DEEPER). BACKFILL HOLE WITH HMAC AND BASE MATERIALS (IF NEEDED) DESCRIBED IN SHEET C045. BASE MATERIAL TO BE USED UP TO 2" BELOW GRADE.

CRACKING (ALLIGATOR, LONGITUDINAL, TRANSVERSE)
 REMOVE DAMAGED AREA (APPROXIMATE DIMENSIONS GIVEN IN SHEETS C187 AND C188 TABLE) MATERIAL DOWN TO SUBGRADE, APPROXIMATELY 9" ON AVERAGE.
 PREPARE SUBGRADE AND BACKFILL HOLE WITH HMAC AND BASE MATERIALS AS DESCRIBED IN SHEET C045. BASE MATERIAL TO BE USED UP TO 2" BELOW GRADE.

Steven C. Dean
 STEVEN C. DEAN, P.E. 8/10/2016
 DATE

REV. NO.	DATE	DESCRIPTION
1	8/10/16	NOTE ADDED

Pape-Dawson ENGINEERS

SAN ANTONIO | AUSTIN | HOUSTON | FORT WORTH | DALLAS
 2000 NEW LOOP 410 | SAN ANTONIO, TX 78218 | 210.370.5000
 TYPE FIRM REGISTRATION #4100 | TOLLS FIRM REGISTRATION #17000000



FAIR OAKS RANCH ROADWAY RECONSTRUCTION
 AND WATER SYSTEM IMPROVEMENTS

**PAVEMENT REPAIR
 ITEM DESCRIPTION**

	DATE	CITY
DESIGNER: RS	JULY 2016	FAIR OAKS RANCH
CHECKED: SCD	JOB NO.	
DRAWN: JM	8778-00	C186

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PAVEMENT REPAIR ITEM DESCRIPTION TABLE

Point Number	Approximate Location		Approximate Dimensions		General Description
	Northing	Easting	Width (ft)	Length (ft)	
1	13809963.17	2075712.27	4	4	EB, pothole and pumping on shoulder and north wheel path
2	13810048.35	2075828.41	6	60	EB, alligator cracking with pumping on north wheel path and patching
3	13810151.73	2075949.78	6	80	EB, alligator cracking with pumping between coordinate locations
4	13810188.29	2076018.44			
5	13810303.99	2076208.54	6	12	EB, previous patch work is failing, pumping on south side
6	13810463.45	2076853.46	4	4	EB, previous repair is failing
7	13810487.8	2076890.41	6	20	EB, cracking along left shoulder and lane
8	13810518.39	2076990.83	4	4	EB, alligator cracking and pumping on south side
9	13810634.42	2077292.02	14	50	EB, alligator cracking with pumping
10	13810786.74	2077566.65	14	140	EB, alligator cracking with pumping between coordinate locations
11	13810859.76	2077666.94			
12	13810945.02	2077804.23	14	70	EB, utility cut patchwork failing between coordinate locations
13	13810987.55	2077841.13			
14	13811030.07	2077872.75	4	4	EB, pothole patch failing with alligator cracking
15	13811182.27	2078105.05	18	6	EB, cracking over utility line
16	13811297.91	2078273.99	14	350	EB, potholes and failures around previous patchwork between coordinate locations
17	13811444.24	2078569.78			
18	13811380.75	2079633.22	8	30	EB, alligator cracking on right side with repaired longitudinal cracking in middle
19	29 43.506	-98 38.832	6	40	EB, alligator cracking with pumping on north wheel path
20	29 43.508	-98 38.803	8	70	EB, failures near patchwork between coordinate locations
21	29 43.511	-98 38.793			
22	29 43.512	-98 38.783	6	20	EB, alligator cracking and pumping on north wheel path
24	13811500.68	2081219.81			EB, previous patches, pumping, and rutting between coordinate locations
25	13813521.25	2082007.10	18	50	EB, alligator cracking and pumping at intersection
26	13813781.82	2081995.72	4	40	EB, longitudinal and alligator cracking
27	13813933.27	2081974.10	6	30	EB, failures around patch
28	13814078.62	2081941.92	10	80	EB, slight alligator cracking with pumping in areas on north side between coordinate locations
29	13814151.25	2081909.96			
30	13814556.64	2081691.86	6	10	WB, alligator cracking at entrance of Raintree Woods
31	13814435.5	2081713.39	8	20	WB, slight alligator cracking and pumping, looks as if drainage is causing water to get under pavement
32	13814011.76	2081878.65	16	6	WB, transverse cracking with pumping
33	13813939.1	2081900.03	14	8	WB, transverse cracking with pumping
34	13813660.41	2081932.62	18	120	WB, alligator cracking occurring at and before intersection, between coordinate locations
35	13813569.51	2081932.90			
36	13812217.59	2081799.50	6	10	WB, alligator cracking and pumping
37	13812041.74	2081768.30	30	80	WB, intersection generally contains block cracking with some alligator cracking developing
38	13811554.81	2081082.11	18	8	WB, alligator cracking at transition
39	13811518.17	2080992.29	6	250	WB, edge distress including rutting on south side between coordinate locations
40	13811481.09	2080754.36			
41	13811382.49	2080215.10	18	16	WB, alligator and transverse cracking
42	13811477.67	2079617.06	14	18	WB, alligator cracking
43	13811495.44	2079479.48	14	100	WB, alligator cracking between coordinate locations
44	13811513.35	2079389.50			
45	13811525.12	2079273.09	14	350	WB, failed patches, failures around patches, and edge cracking on south lane between coordinate locations
46	13811536.28	2078950.37			
47	13811419.41	2078368.84	18	40	WB, alligator cracking over culvert
48	13811011.53	2077751.13	6	20	WB, alligator cracking with pumping and block cracking
49	13810425.48	2076303.41	14	10	WB, alligator cracking with pumping
50	13816236.1	2085812.26	8	20	Pothole over utility backfill
51	13815909.68	2086083.04	6	10	Alligator cracking
52	13815789.88	2086527.72	4	4	Pothole at low area
53	13815825.12	2086173.23	4	4	Pothole at previously patched location
54	13809689.33	2075326.89	14	10	EB, transverse cracking starting at culvert and extending east between coordinate locations
55	13809689.3	2075316.31			
56	13809713.69	2075369.14	8	10	EB, longitudinal cracks on south side
57	13809768.47	2075448.33	14	60	EB, transverse cracking between coordinate locations
58	13809798.91	2075495.85			
59	13810273.54	2076155.73	18	6	EB, transverse cracking with slight pumping over culvert
60	13810340.65	2076308.95	14	6	EB, alligator cracking before asphalt transition
61	13810371.06	2076345.89	10	30	EB, asphalt bleeding and raveling
62	13810414.28	2076620.84	14	70	EB, alligator cracking between coordinate locations
63	13810426.59	2076684.28			
64	13810542.88	2077075.40	14	180	EB, several transverse cracks between coordinate locations
65	13810604	2077249.79			
66	13811475.71	2078961.13	18	310	EB, intermittent transverse cracks with longitudinal and alligator cracks near culvert between coordinate locations
67	13811452.4	2079273.30			
68	13811446.56	2079347.38	18	6	EB, transverse and alligator cracking
69	13811434.79	2079463.79	4	4	

PAVEMENT REPAIR NOTES:

POTHOLE AND PATCHWORK FAILING REPAIR (REF. SHEET C187)
 SAW CUT AND REMOVE DAMAGED AREA MATERIAL (APPROXIMATELY 3" LATERALLY BEYOND AND 1" DEEPER). BACKFILL HOLE WITH HMAC AND BASE MATERIALS (IF NEEDED) DESCRIBED IN SHEET C045. BASE MATERIAL TO BE USED UP TO 2" BELOW GRADE.

CRACKING (ALLIGATOR, LONGITUDINAL, TRANSVERSE)
 REMOVE DAMAGED AREA (APPROXIMATE DIMENSIONS GIVEN IN SHEETS C187 AND C188 TABLE) MATERIAL DOWN TO SUBGRADE, APPROXIMATELY 9" ON AVERAGE.
 PREPARE SUBGRADE AND BACKFILL HOLE WITH HMAC AND BASE MATERIALS AS DESCRIBED IN SHEET C045. BASE MATERIAL TO BE USED UP TO 2" BELOW GRADE.



REV. NO.	DATE	DESCRIPTION
1	8/10/16	NOTE ADDED
2	8/10/16	TABLE UPDATED



FAIR OAKS RANCH ROADWAY RECONSTRUCTION
AND WATER SYSTEM IMPROVEMENTS

PAVEMENT REPAIR ITEM DESCRIPTION

DESIGNER: RS	DATE: JULY 2016	CITY: FAIR OAKS RANCH
CHECKED: SCD	JOB NO.	
DRAWN: JM	8778-00	C187

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PAVEMENT REPAIR ITEM DESCRIPTION TABLE

Point Number	Approximate Location		Approximate Dimensions		General Description
	Northing	Easting	Width (ft)	Length (ft)	
71	13811738.36	2081652.85	8	8	EB, alligator cracking developing
72	13812126.88	2081863.25	8	8	EB, failures near previous repairs
73	13812527.07	2081925.50	6	16	EB, edge and longitudinal cracking developing
74	13813230.17	2081949.80	8	30	WB, block and irregular shape cracking
75	13813066.48	2081934.44	8	650	WB, long longitudinal cracks between coordinate locations
76	13812441.96	2081841.13			
77	13811640.68	2081420.39	6	150	WB, edge cracking
78	13812527.07	2081925.50	14	170	WB, block cracking transitioning into alligator cracking between coordinate locations
79	13811523.19	2078622.45			
80	13811462.22	2078500.96	8	20	WB, edge cracking on south side
81	13811334.11	2078215.69	10	60	WB, alligator cracking at intersection
82	13811218.49	2078057.34	14	20	WB, block cracking transitioning to alligator cracking
83	13810621.76	2077106.91	14	60	WB, block cracking
84	13810566.74	2076943.08	6	110	WB, edge distress between coordinate locations
85	13810536.16	2076847.95			
86	13809822.97	2075432.30	6	20	WB, edge cracking on south side
87	13809725.51	2075263.30	6	200	WB, edge distress on north side between coordinate locations
88	13809628.03	2075083.72			
89	13815324.02	2084863.08	6	10	Low spot
90	13815275.79	2084942.57	65	65	Cul-de-sac is rough and bumpy with recent patchwork, but no significant cracks or failures
91	13815903.89	2086167.69	45	4	Bump within utility backfill area
92	13815867.85	2086268.30	4	10	Rough area at joint
93	13815808.03	2086517.08	16	50	Longitudinal cracking
94	13815777.83	2086548.91	8	8	Rough surface
95	13815765.71	2086548.95	6	6	Bump from elevated manhole
96	13815777.85	2086554.20	8	20	Longitudinal cracking
97	13815698.86	2086490.98	10	8	Low spot
98	13815746.33	2086173.48	80	80	Cul-de-sac is rough and bumpy, but no significant cracks or failures
99	13811380.75	2079633.22			EB, alligator cracking on right side with repaired longitudinal cracking in middle

PAVEMENT REPAIR NOTES:

POTHOLE AND PATCHWORK FAILING REPAIR (REF. SHEET C187)
 SAW CUT AND REMOVE DAMAGED AREA MATERIAL (APPROXIMATELY 3" LATERALLY BEYOND AND 1" DEEPER). BACKFILL HOLE WITH HMAC AND BASE MATERIALS (IF NEEDED) DESCRIBED IN SHEET C045. BASE MATERIAL TO BE USED UP TO 2" BELOW GRADE.

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REV. NO.	DATE	DESCRIPTION
1	8/10/16	NOTE ADDED

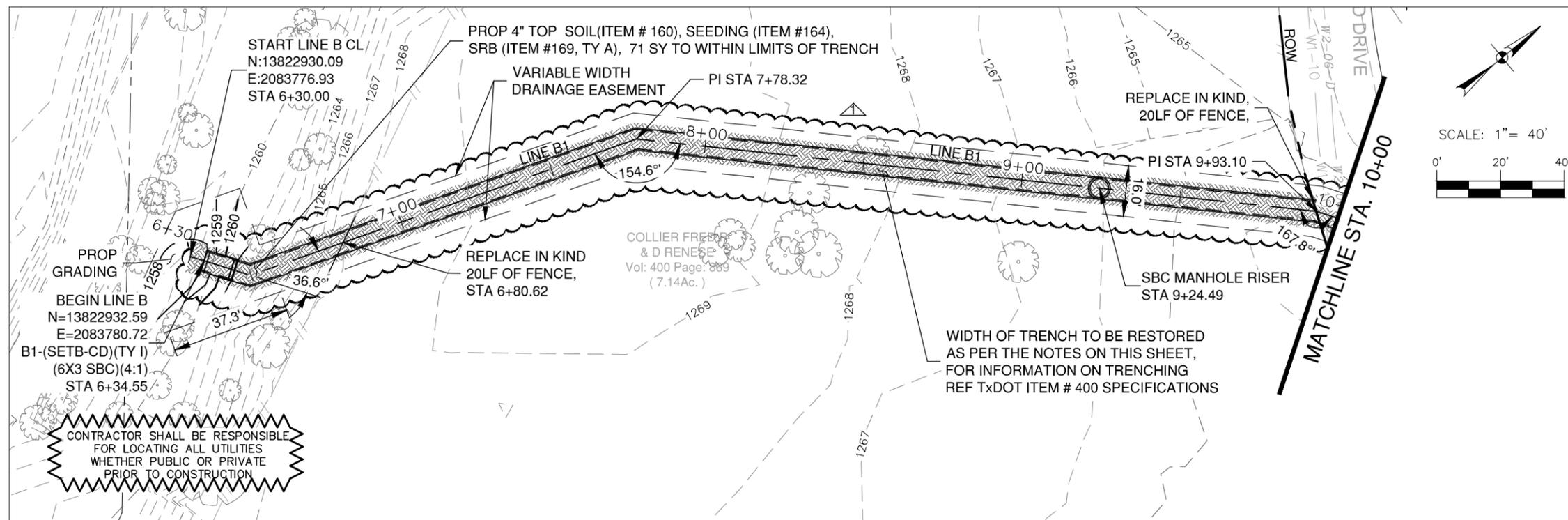


FAIR OAKS RANCH ROADWAY RECONSTRUCTION AND WATER SYSTEM IMPROVEMENTS

PAVEMENT REPAIR ITEM DESCRIPTION

DESIGNER:	DATE:	CITY:
RS	JULY 2016	FAIR OAKS RANCH
CHECKED:SCD	JOB NO.	
DRAWN: JM	6778-00	C188

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NOTES:

CONTRACTOR TO REBUILD ALL EXISTING FEATURES (INCLUDING MAILBOXES) DAMAGED DURING CONSTRUCTION BACK TO PRE-CONSTRUCTION CONDITIONS AT CONTRACTOR'S EXPENSE.

CALL TEXAS STATE WIDE ONE CALL LOCATOR NUMBER 1-800-344-8377, 48 HOURS BEFORE ANY EXCAVATION.

DUE TO FEDERAL REGULATIONS TITLE 49, PART 192.181, THE CONTRACTOR MUST MAINTAIN ACCESS TO ANY GAS VALVES AT ALL TIMES. THE CONTRACTOR MUST PROTECT AND WORK AROUND ANY GAS VALVES THAT ARE IN THE PROJECT AREA.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING OVERHEAD AND UNDERGROUND ELECTRIC FACILITIES IF ADJACENT TO WORK AREAS.

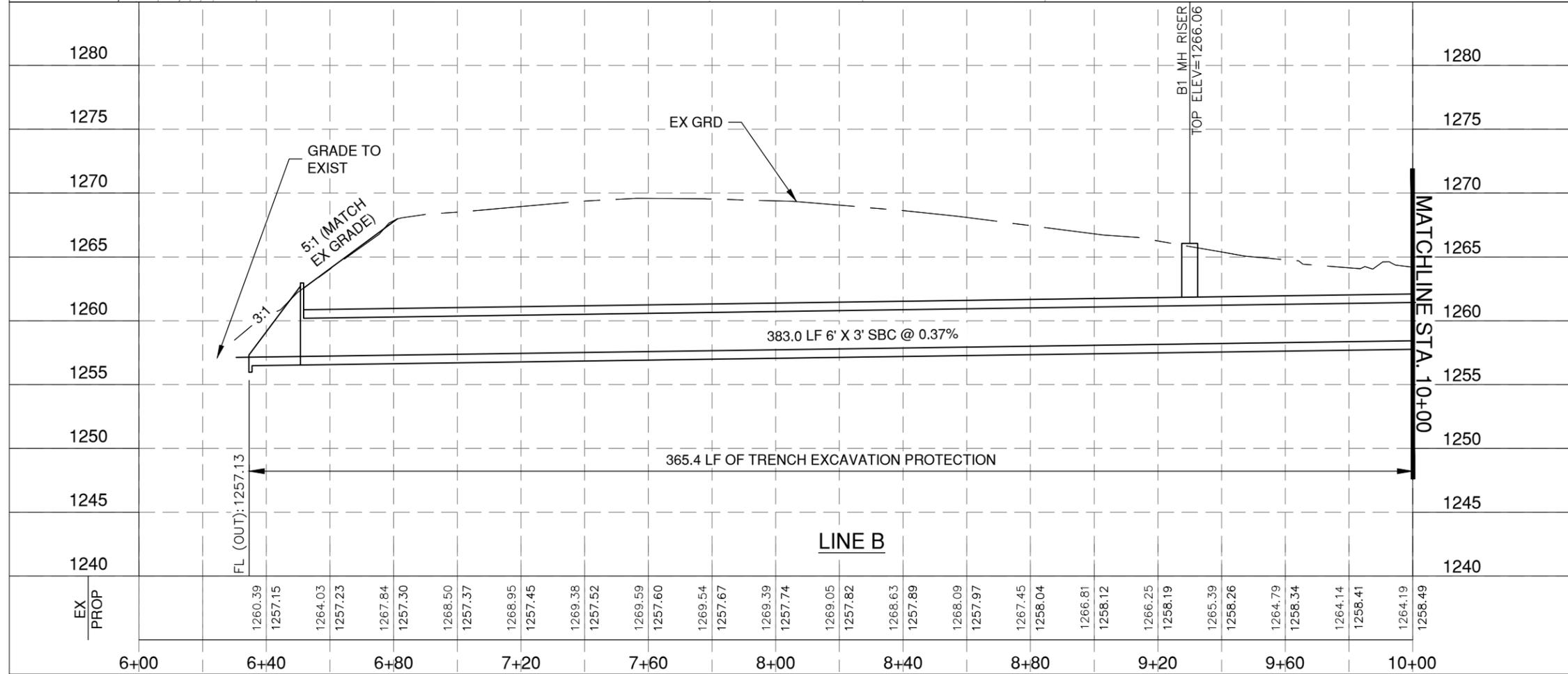
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A 2'0" CUT BACK WILL BE MADE FOR ALL SET'S TO BE REPLACED, THE 2.0' IS MEASURED FROM THE FACE OF EXISTING HEADWALL/SET.

THE CONTRACTOR SHALL INSTALL DROUGHT TOLERANT SEEDING AS PER TXDOT ITEM #164 (SA DISTRICT) FOR ALL TRENCH RESTORATION. EROSION CONTROL SODDING (ITEM #162) WILL BE USED ONLY IN THE DOWNSTREAM PORTION OF CULVERT 13 (THE FOUNTAINS).

THE CONTRACTOR WILL PROVIDE NORTHING AND EASTING FOR ALL GVTC CONDUIT LOCATIONS.



STATE OF TEXAS
STEVEN C. DEAN
83905
LICENSED PROFESSIONAL ENGINEER

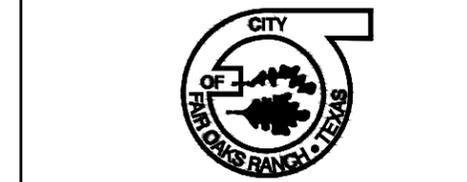
Steven C. Dean
STEVEN C. DEAN, P.E.
8/10/2016
DATE

H: 1" = 40'
V: 1" = 10'

REV. NO.	DATE	DESCRIPTION
1	8/10/16	HATCH ADDED FOR SRB

PAPE-DAWSON ENGINEERS

SAN ANTONIO | AUSTIN | HOUSTON | FORT WORTH | DALLAS
2800 NW LOOP 410 | SAN ANTONIO, TX 78213 | 210.376.5000
TYPE FIRM REGISTRATION #4130 | TOP/LR FIRM REGISTRATION #17000000



FAIR OAKS RANCH ROADWAY RECONSTRUCTION AND WATER SYSTEM IMPROVEMENTS
DRAINAGE PLAN
LINE B
INTREPID
STA 6+30 TO 10+00

DESIGNER	DATE	CITY
RS	JULY 2016	FAIR OAKS RANCH
CHECKED	JOB NO.	
SCD		
DRAWN	DATE	
JM	8/7/16	C218

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NOTES:

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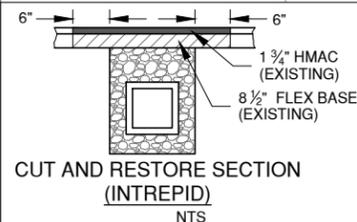
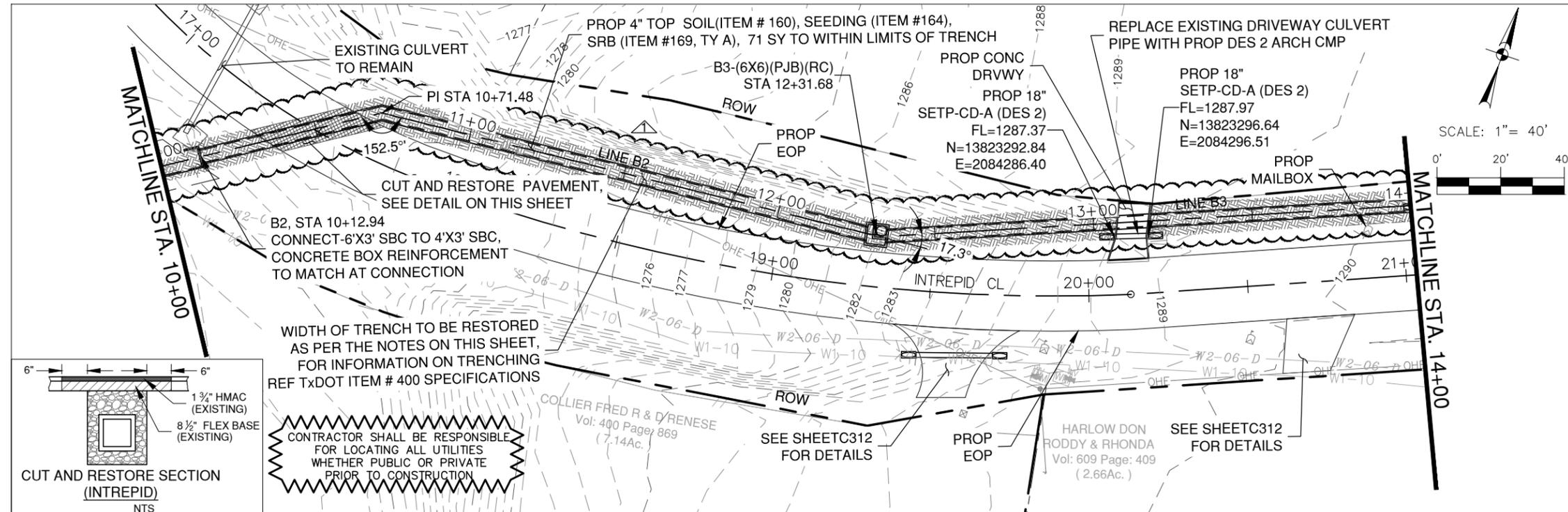
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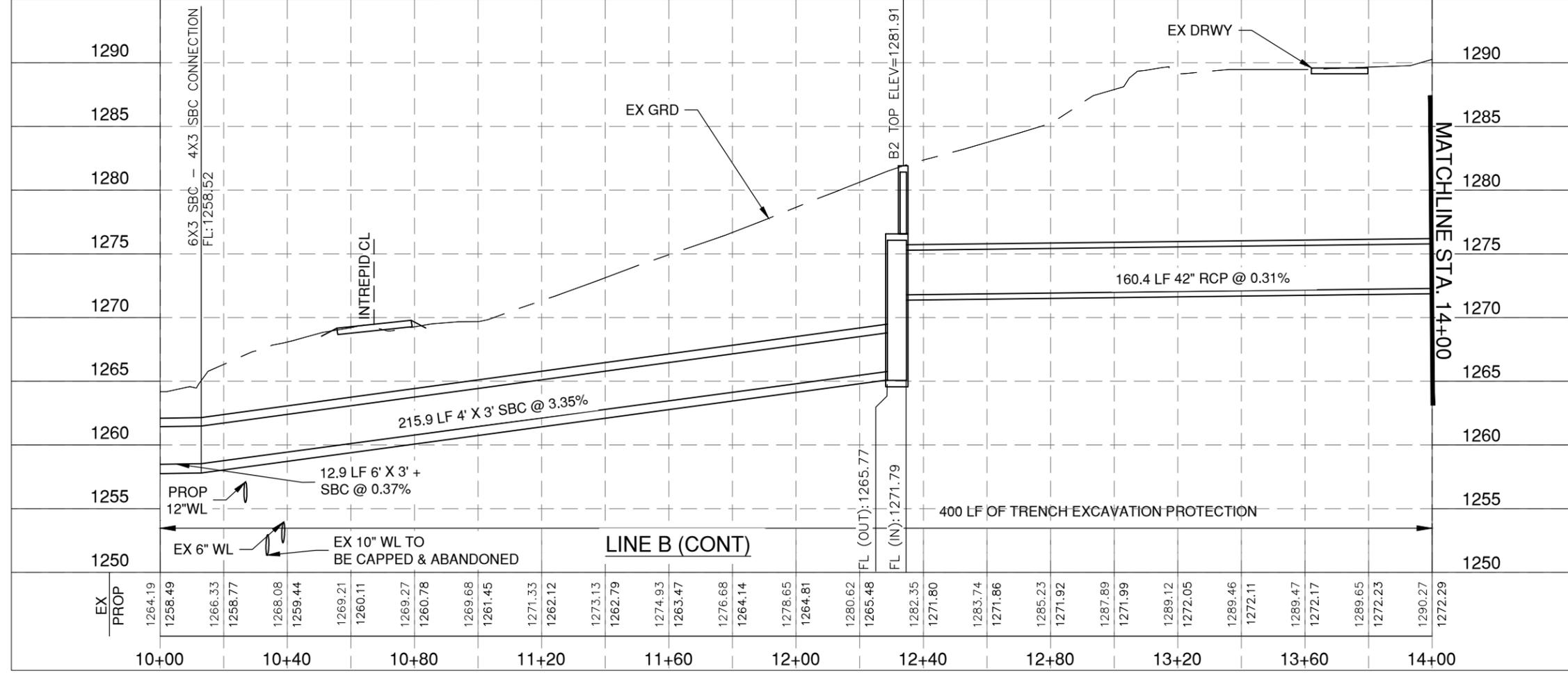
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THE CONTRACTOR WILL PROVIDE NORTHING AND EASTING FOR ALL GVTC CONDUIT LOCATIONS.



CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL UTILITIES WHETHER PUBLIC OR PRIVATE PRIOR TO CONSTRUCTION



H: 1" = 40'
V: 1" = 10'

REV. NO.	DATE	DESCRIPTION
1	8/10/16	HATCH ADDED FOR SRB

PAPE-DAWSON ENGINEERS

SAN ANTONIO | AUSTIN | HOUSTON | FORT WORTH | DALLAS
2800 NW LOOP 410 | SAN ANTONIO, TX 78201 | 210.376.5000
TYPE FIRM REGISTRATION #410 | TYPE L FIRM REGISTRATION #1000000



FAIR OAKS RANCH ROADWAY RECONSTRUCTION AND WATER SYSTEM IMPROVEMENTS
DRAINAGE PLAN

**LINE B
INTREPID
STA 10+00 TO 14+00**

DESIGNER	DATE	CITY
RS	JULY 2016	FAIR OAKS RANCH
CHECKED	JOB NO.	
SCD		
DRAWN	DATE	
JM	8/7/16	C219

NOTES:

CONTRACTOR TO REBUILD ALL EXISTING FEATURES (INCLUDING MAILBOXES) DAMAGED DURING CONSTRUCTION BACK TO PRE-CONSTRUCTION CONDITIONS AT CONTRACTOR'S EXPENSE.

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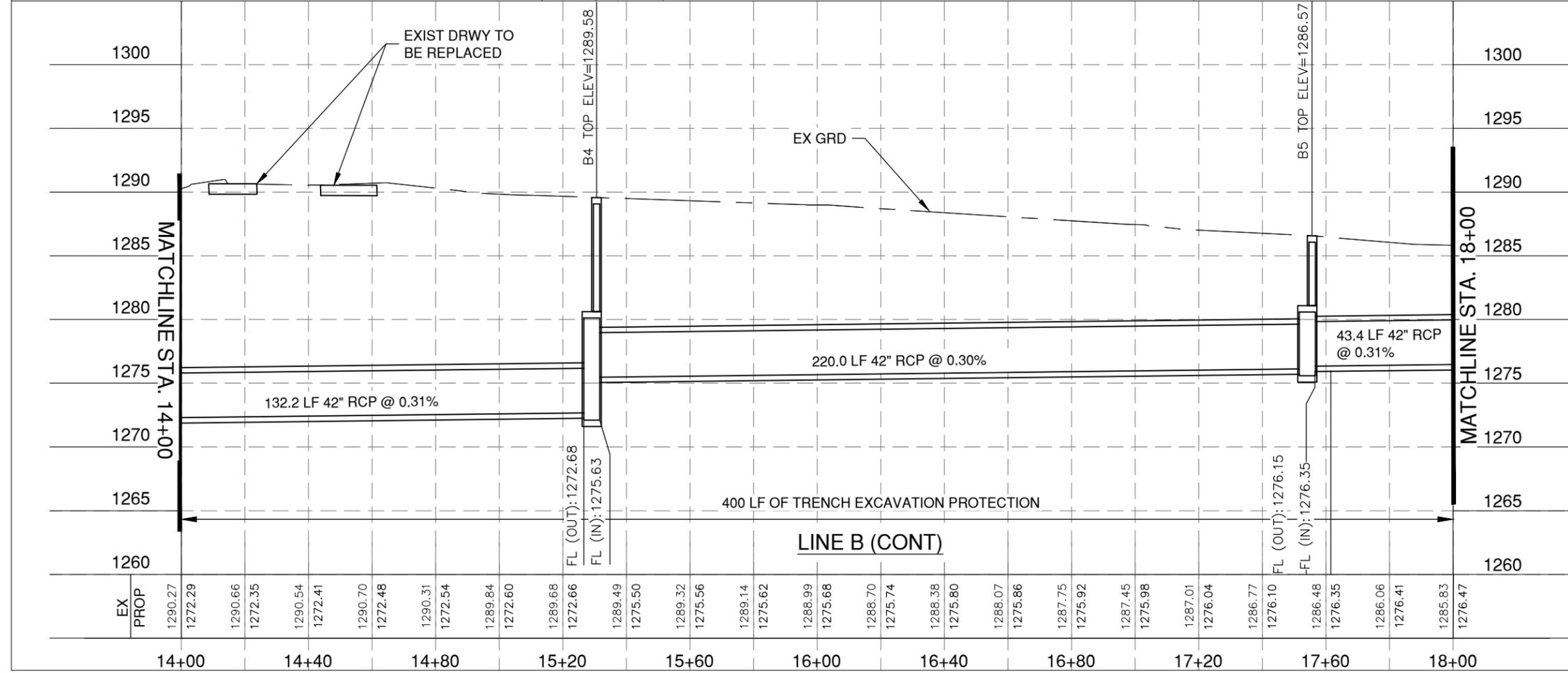
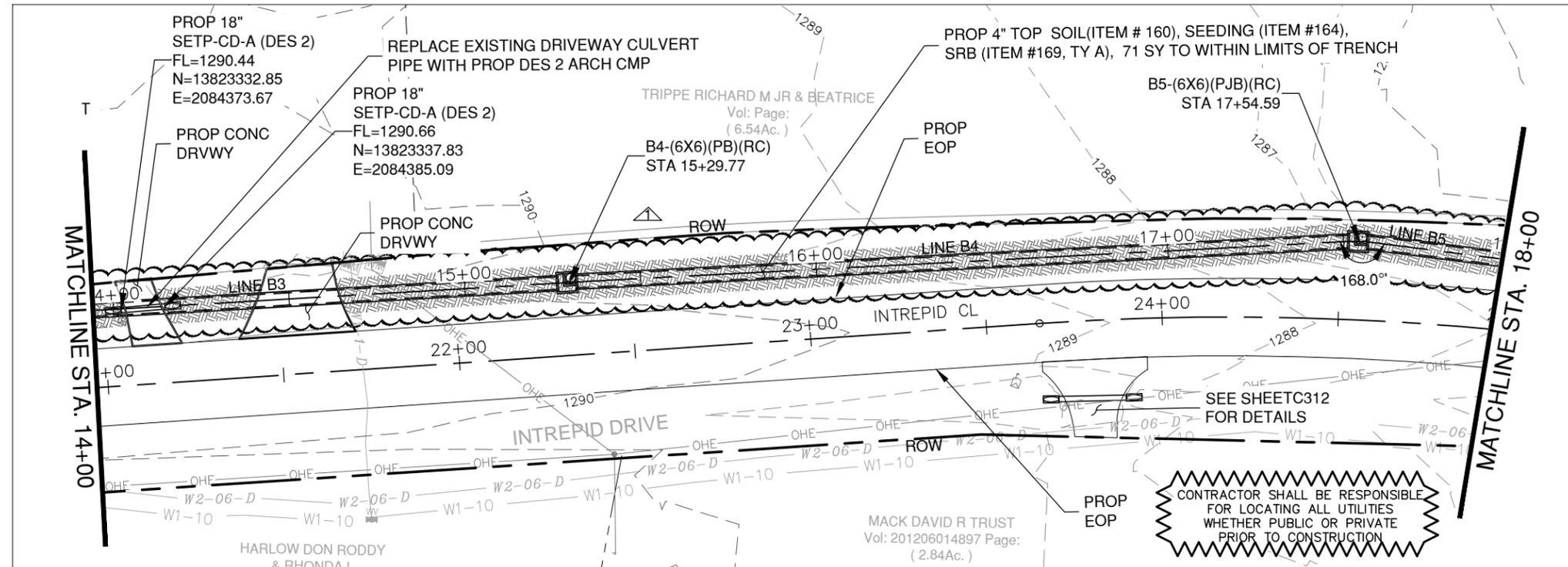
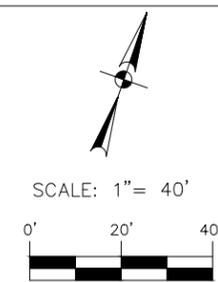
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THE CONTRACTOR SHALL INSTALL DROUGHT TOLERANT SEEDING AS PER TXDOT ITEM #164 (SA DISTRICT) FOR ALL TRENCH RESTORATION. EROSION CONTROL SODDING (ITEM #162) WILL BE USED ONLY IN THE DOWNSTREAM PORTION OF CULVERT 13 (THE FOUNTAINS).

THE CONTRACTOR WILL PROVIDE NORTHING AND EASTING FOR ALL GVTC CONDUIT LOCATIONS.



H: 1" = 40'
V: 1" = 10'

REV. NO.	DATE	DESCRIPTION
1	8/10/16	HATCH ADDED FOR SRB



3000 HW LOOP 410 | SAN ANTONIO, TX 78218 | 210.376.3000
TYPE FIRM REGISTRATION #4100 | TOP-LEVEL FIRM REGISTRATION #17000000

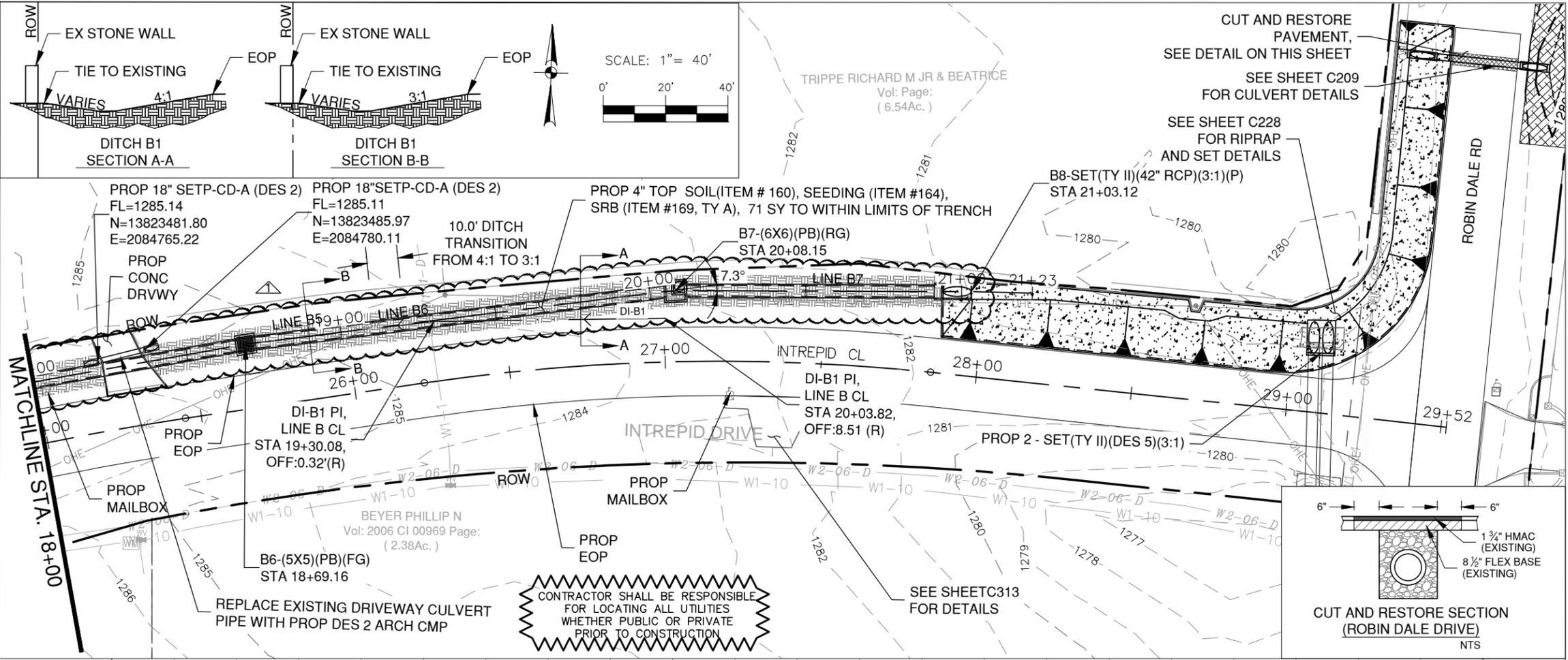


FAIR OAKS RANCH ROADWAY RECONSTRUCTION AND WATER SYSTEM IMPROVEMENTS
DRAINAGE PLAN

LINE B
INTREPID
STA 14+00 TO 18+00

DESIGNER	DATE	CITY
RS	JULY 2016	FAIR OAKS RANCH
CHECKED	JOB NO.	
SCD		
DRAWN	DATE	
JM	8/7/16	C220

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NOTES:
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 CALL TEXAS STATE WIDE ONE CALL LOCATOR NUMBER 1-800-344-8377, 48 HOURS BEFORE ANY EXCAVATION.
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 THE CONTRACTOR WILL PROVIDE NORTHING AND EASTING FOR ALL GVTC CONDUIT LOCATIONS.

STATE OF TEXAS
 STEVEN C. DEAN
 83905
 LICENSED PROFESSIONAL ENGINEER
 STEVEN C. DEAN, P.E.
 8/10/2016
 DATE

H: 1" = 40'
V: 1" = 10'

REV. NO.	DATE	DESCRIPTION
1	8/10/16	HATCH ADDED FOR SRB
2	8/10/16	STATIONS REVISED

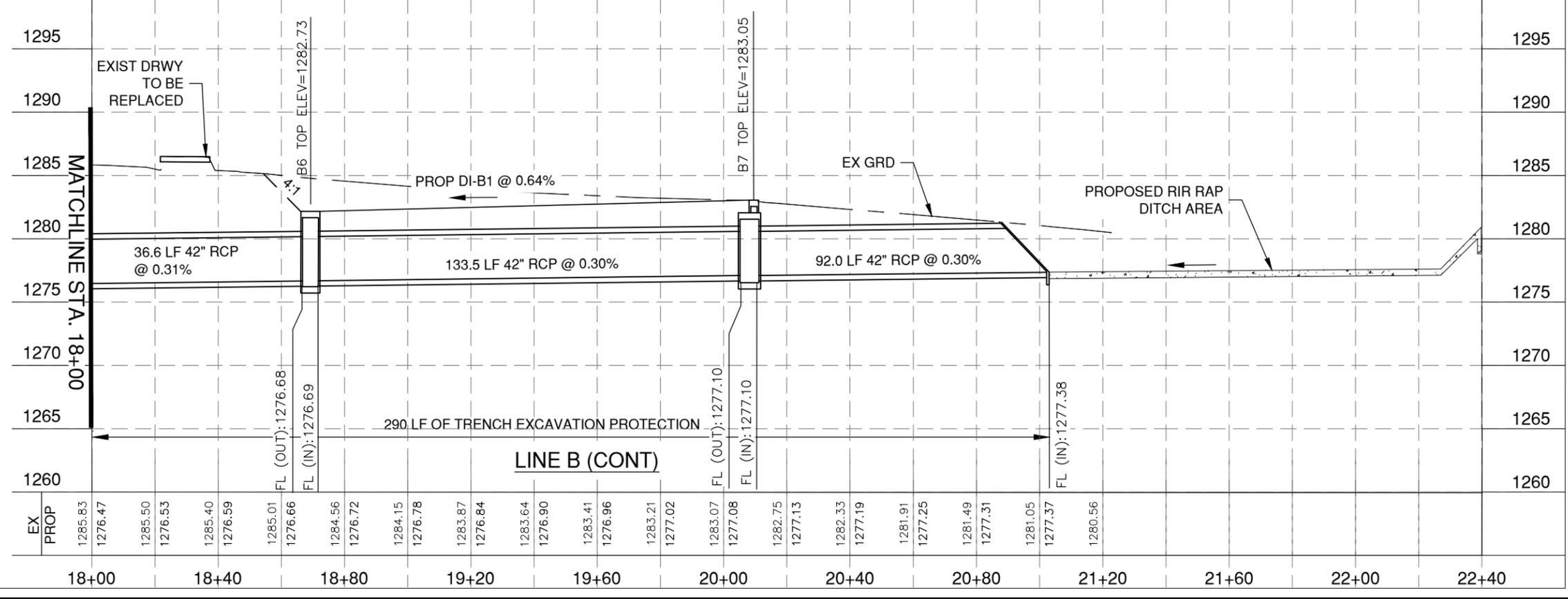
PAPE-DAWSON ENGINEERS
 SAN ANTONIO | AUSTIN | HOUSTON | FORT WORTH | DALLAS
 2800 NW LOOP 410 | SAN ANTONIO, TX 78201 | 210.376.5000
 TYPE FIRM REGISTRATION #4100 | TYPE L.F. REGISTRATION #17000000



FAIR OAKS RANCH ROADWAY RECONSTRUCTION AND WATER SYSTEM IMPROVEMENTS
 DRAINAGE PLAN

LINE B
 INTREPID
 STA 18+00 TO END

DESIGNER	DATE	CITY
RS	JULY 2016	FAIR OAKS RANCH
CHECKED	JOB NO.	
SCD		
DRAWN	DATE	
JM	8/7/16	C221



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NOTES:

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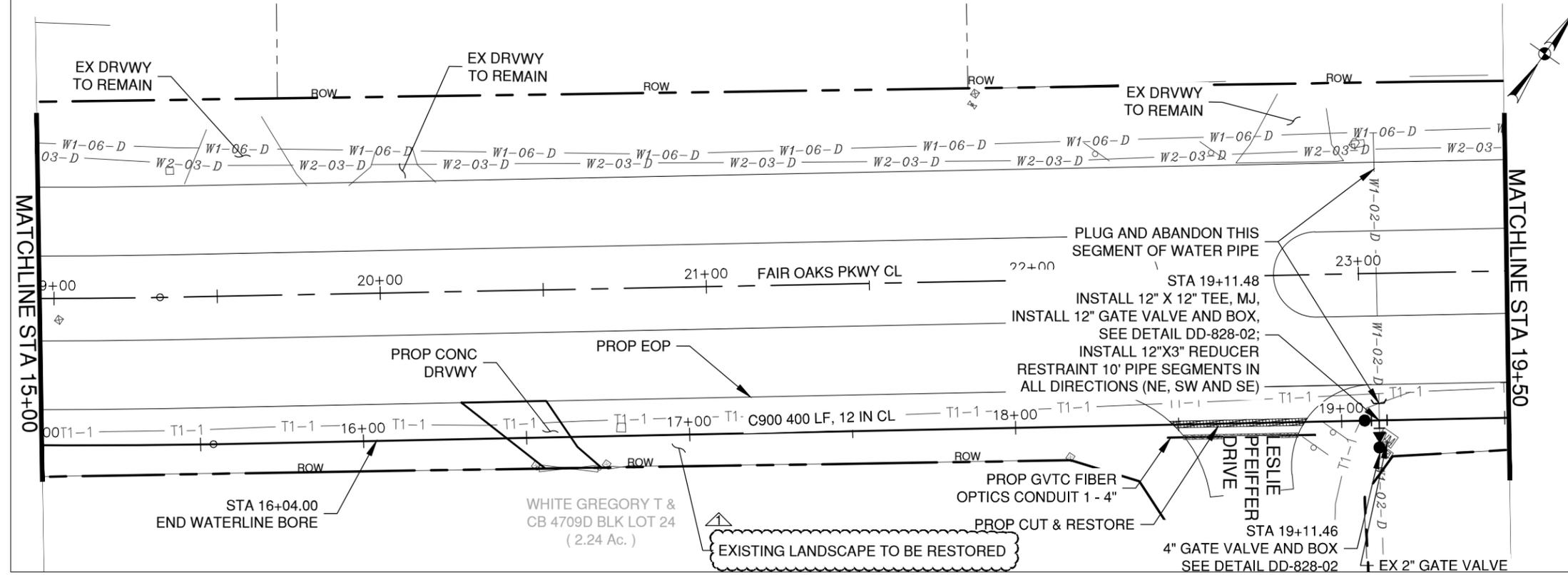
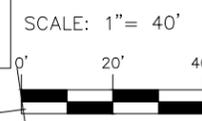
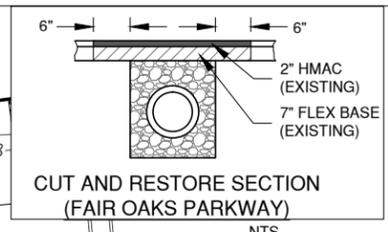
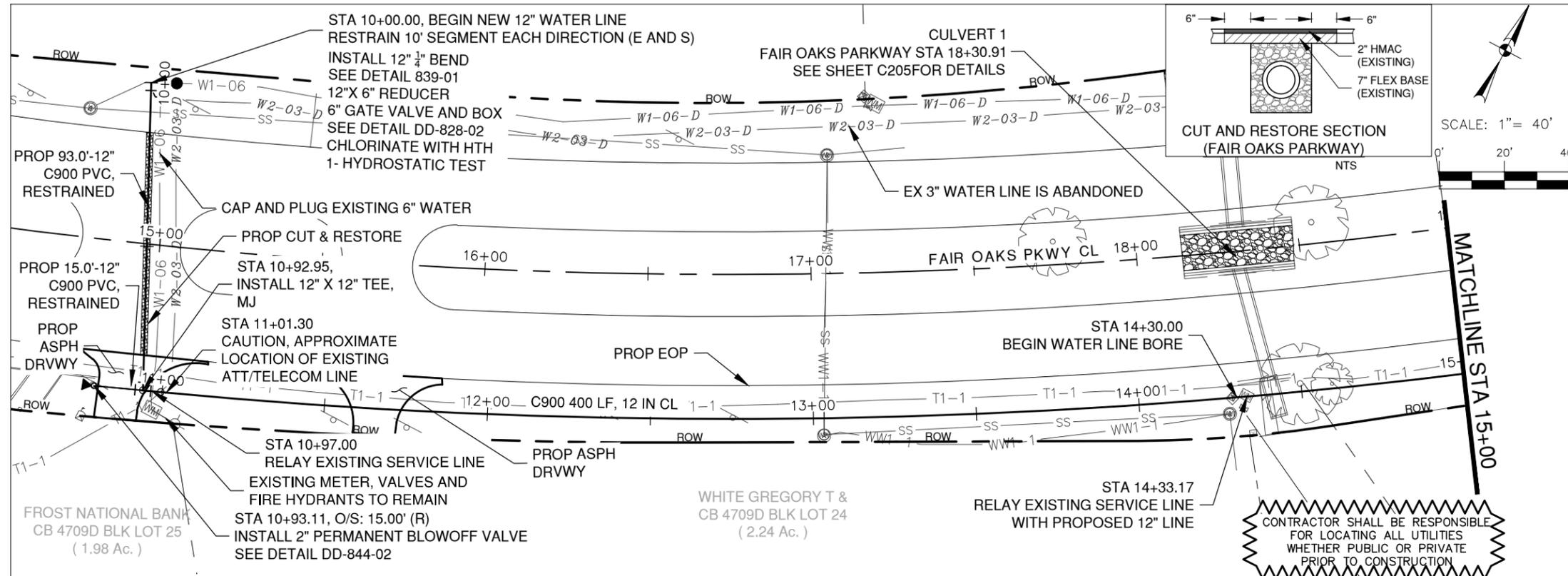
CONTRACTOR TO TIE IN WATER MAIN AFTER IT HAS BEEN APPROVED FOR SERVICE

ALL VALVES AND FIRE HYDRANTS ARE TO OPEN TO THE LEFT. ALL VALVES ARE TO BE INSTALLED WITHIN A 24" BY 24" CONCRETE PAD (TY B RIPRAP).

RIGHT OF WAY (ROW) SHOWN IS ONLY "APPARENT ROW" DRAWN FROM AERIAL AND BEST AVAILABLE DATA.

CONTRACTOR TO PERFORM BORING FOR CRUCIAL AREAS AROUND TREES AS SPECIFIED ON THE PLANS.

ALL WATERLINES TO BE INSTALLED AT DEPTHS RANGING FROM 4' MIN TO 7' MAX.



STATE OF TEXAS
 STEVEN C. DEAN
 83905
 LICENSED PROFESSIONAL ENGINEER
 STEVEN C. DEAN, P.E.
 8/10/2016
 DATE

REV. NO.	DATE	DESCRIPTION
1	8/10/16	LANDSCAPING ADDED

PAPE-DAWSON ENGINEERS
 SAN ANTONIO | AUSTIN | HOUSTON | FORT WORTH | DALLAS
 2000 NEW LOOP 410 | SAN ANTONIO, TX 78215 | 210.376.0000
 TYPE FIRM REGISTRATION #4190 | TYPE FIRM REGISTRATION #1000000



FAIR OAKS RANCH ROADWAY RECONSTRUCTION AND WATER SYSTEM IMPROVEMENTS
 WATER PLAN

FAIR OAKS PARKWAY
 STA 10+00 TO 19+50

DESIGNER	DATE	CITY
RS	JULY 2016	FAIR OAKS RANCH
SCD	JOB NO.	
JM	8778-00	C301

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NOTES:

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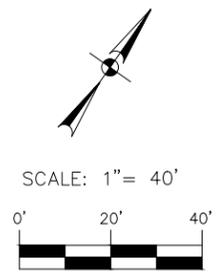
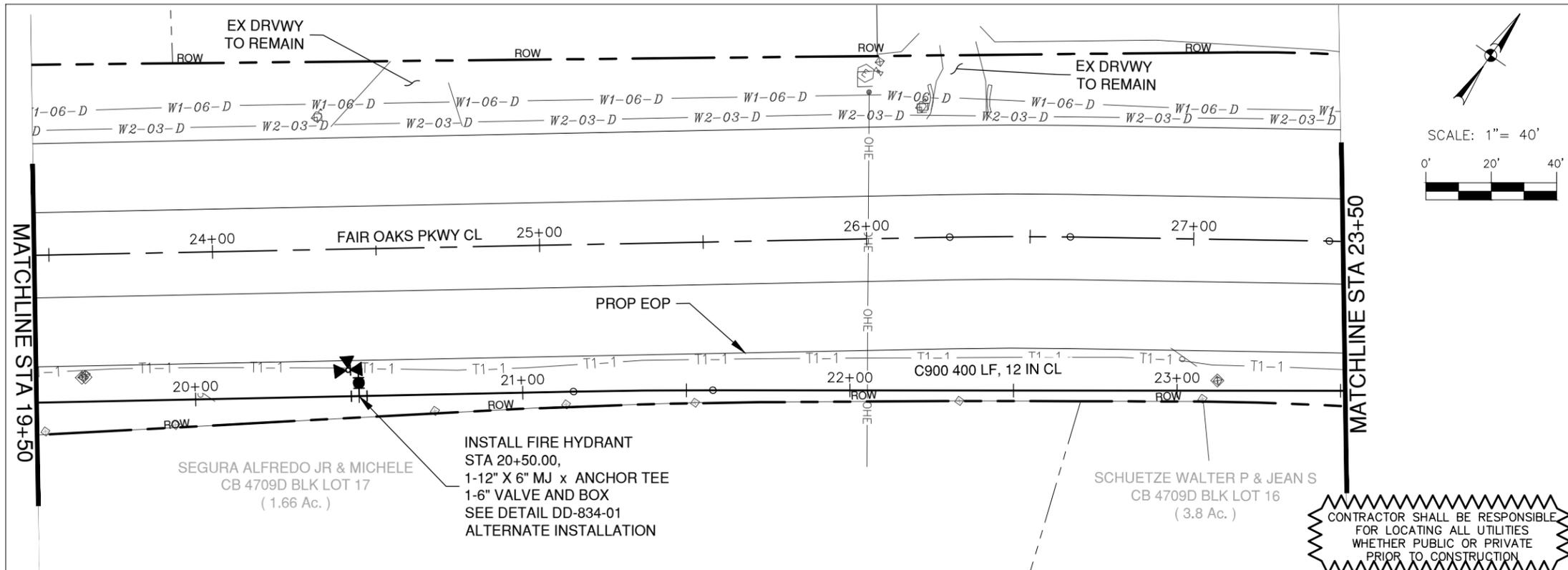
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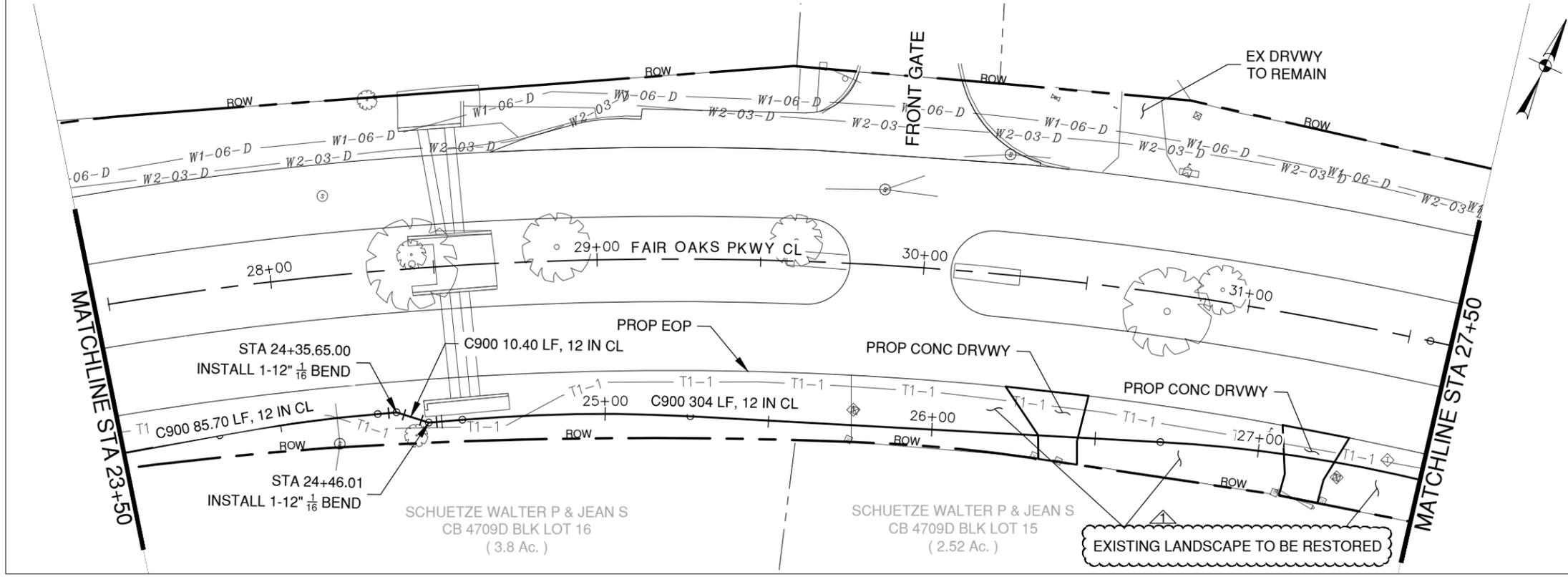
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CONTRACTOR TO PERFORM BORING FOR CRUCIAL AREAS AROUND TREES AS SPECIFIED ON THE PLANS.

ALL WATERLINES TO BE INSTALLED AT DEPTHS RANGING FROM 4' MIN TO 7' MAX.



CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL UTILITIES WHETHER PUBLIC OR PRIVATE PRIOR TO CONSTRUCTION



REV. NO.	DATE	DESCRIPTION
1	8/10/16	LANDSCAPING ADDED

Pape-Dawson Engineers
 SAN ANTONIO | AUSTIN | HOUSTON | FORT WORTH | DALLAS
 2000 NEW LOOP 410 | SAN ANTONIO, TX 78215 | 210.376.0000
 TYPE FIRM REGISTRATION #4790 | TYPE B FIRM REGISTRATION #1000000



FAIR OAKS RANCH ROADWAY RECONSTRUCTION AND WATER SYSTEM IMPROVEMENTS
 WATER PLAN

FAIR OAKS PARKWAY
 STA 19+50 TO 27+50

DESIGNER	DATE	CITY
RS	JULY 2016	FAIR OAKS RANCH
SCD	JOB NO.	
JM	8778-00	C302

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NOTES:

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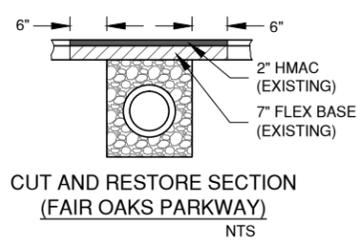
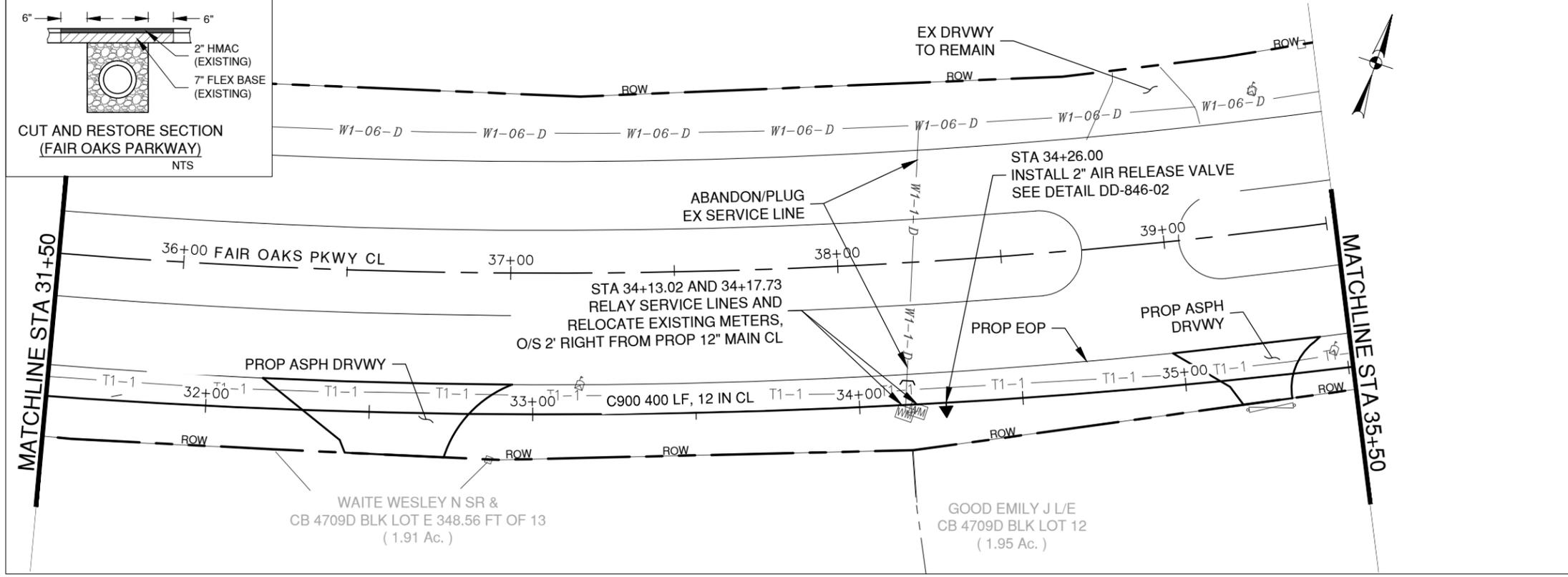
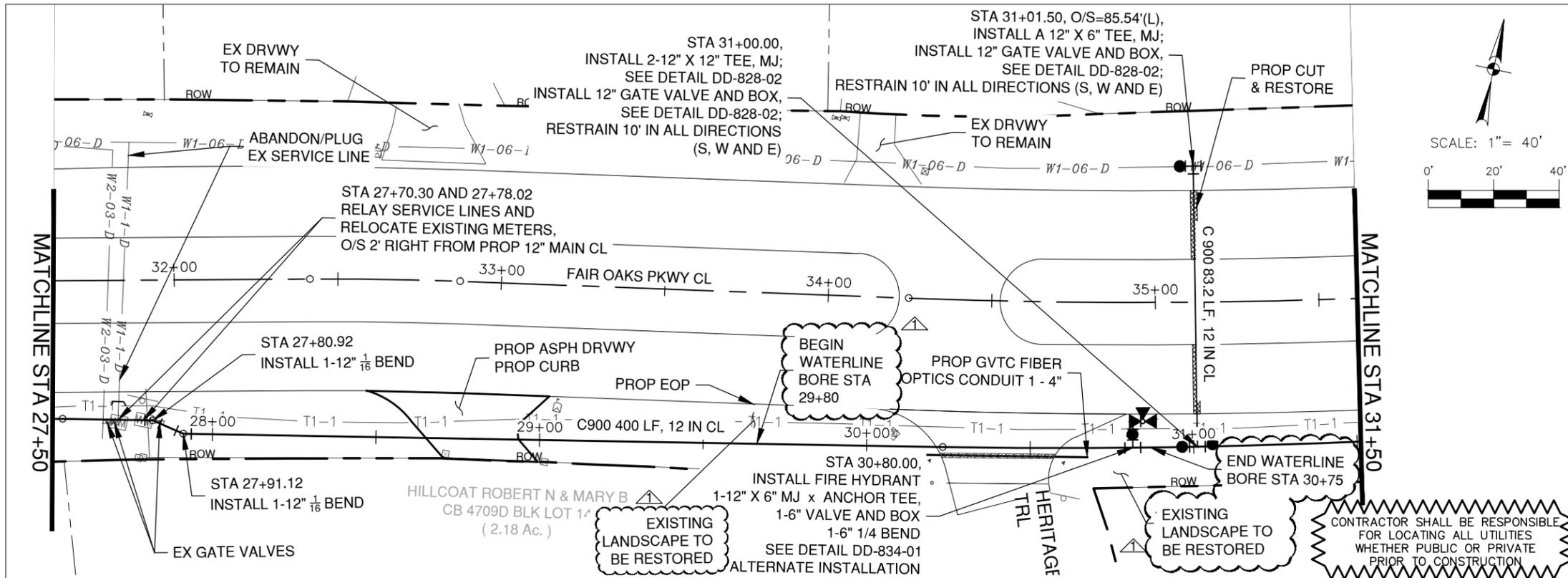
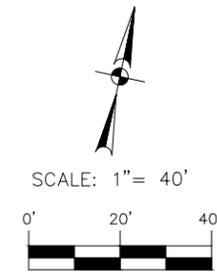
CONTRACTOR TO TIE IN WATER MAIN AFTER IT HAS BEEN APPROVED FOR SERVICE

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ALL WATERLINES TO BE INSTALLED AT DEPTHS RANGING FROM 4' MIN TO 7' MAX.



Professional Engineer Seal for Steven C. Dean, State of Texas, License No. 83905. Signature of Steven C. Dean. Date: 8/10/2016.

REV. NO.	DATE	DESCRIPTION
1	8/10/16	LANDSCAPING ADDED
2	8/10/16	BORING ADDED

PAPE-DAWSON ENGINEERS

SAN ANTONIO | AUSTIN | HOUSTON | FORT WORTH | DALLAS
 2000 NEW LOOP 410 | SAN ANTONIO, TX 78215 | 210.370.0000
 TYPE FIRM REGISTRATION #4470 | TYPE FIRM REGISTRATION #1000000

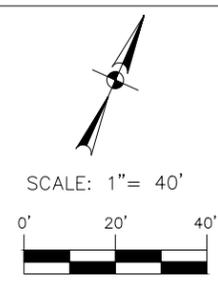
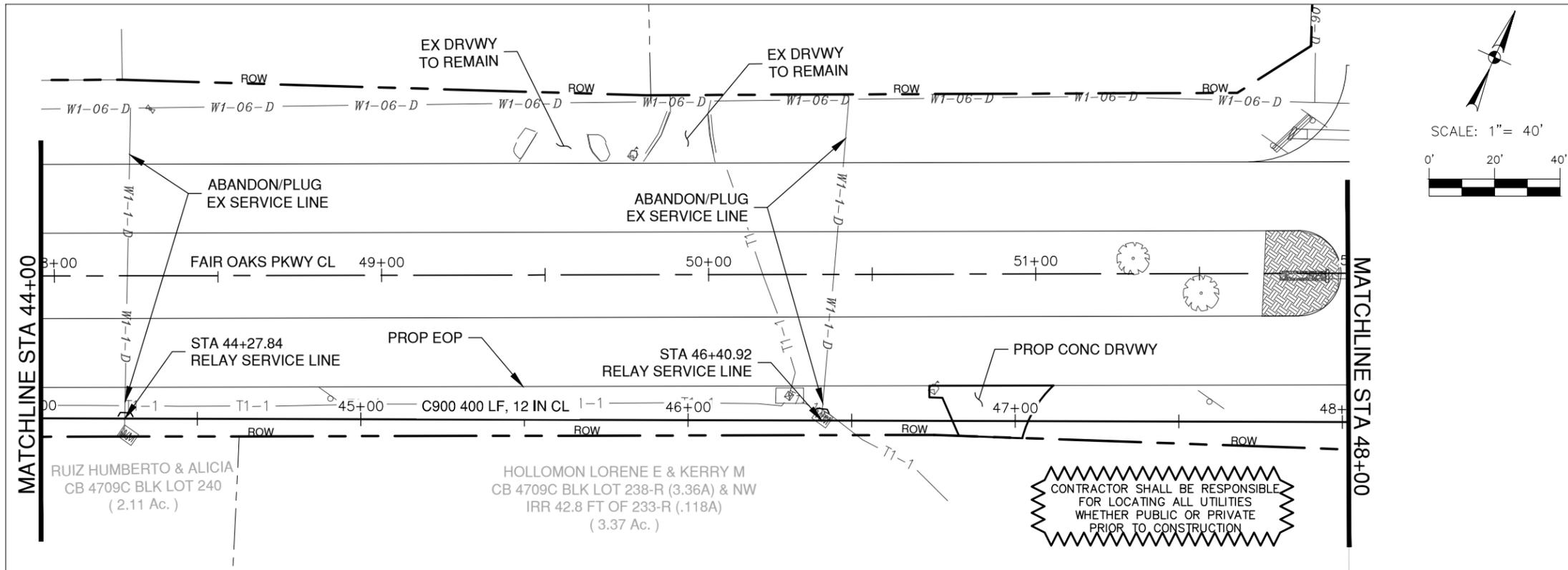


FAIR OAKS RANCH ROADWAY RECONSTRUCTION AND WATER SYSTEM IMPROVEMENTS
 WATER PLAN

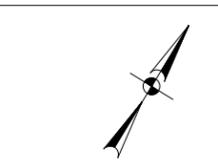
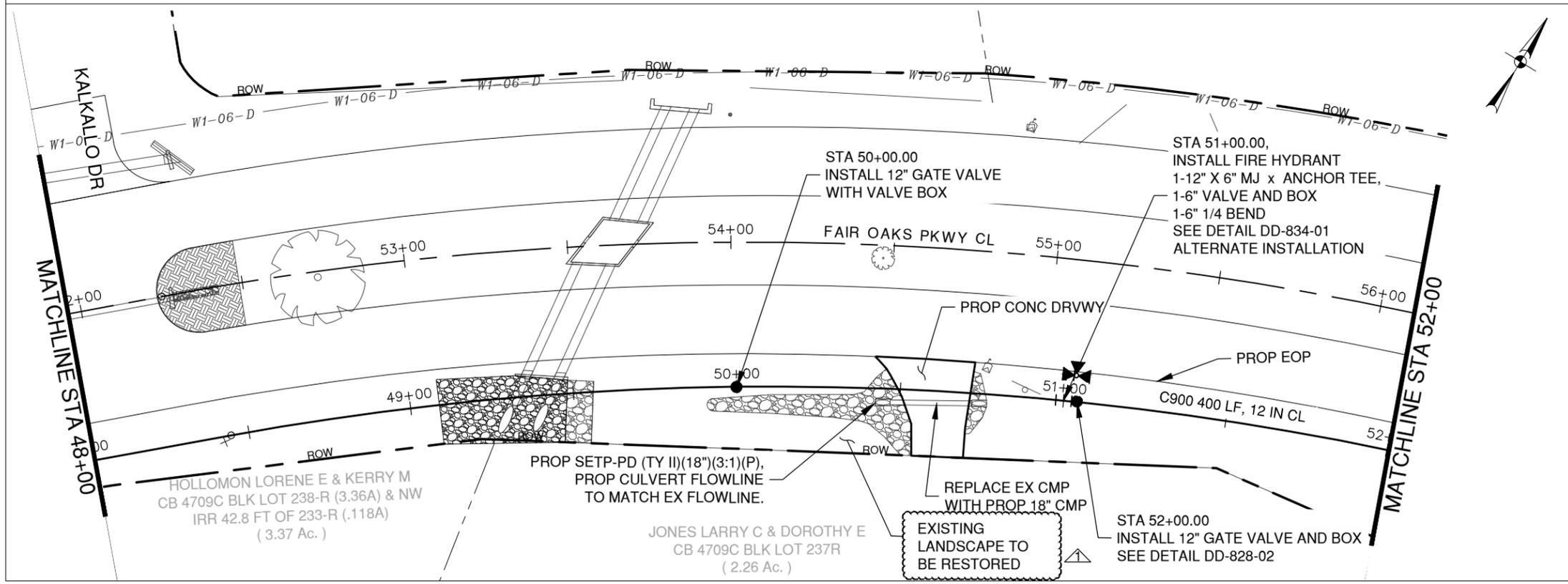
FAIR OAKS PARKWAY
 STA 27+50 TO 35+50

DESIGNER	DATE	CITY
RS	JULY 2016	FAIR OAKS RANCH
SCD	JOB NO.	
JM	8778-00	C303

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- NOTES:
- CONTRACTOR TO REBUILD ALL EXISTING FEATURES (INCLUDING MAILBOXES) DAMAGED DURING CONSTRUCTION BACK TO PRE-CONSTRUCTION CONDITIONS AT CONTRACTOR'S EXPENSE.
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 STEVEN C. DEAN, P.E. 8/10/2016 DATE

REV. NO.	DATE	DESCRIPTION
1	8/10/16	LANDSCAPING ADDED



PAPE-DAWSON ENGINEERS

 SAN ANTONIO | AUSTIN | HOUSTON | FORT WORTH | DALLAS

 2000 NEW LOOP 410 | SAN ANTONIO, TX 78212 | 210.370.0000

 TYPE FIRM REGISTRATION #4190 | TYPE FIRM REGISTRATION #1000000



FAIR OAKS RANCH ROADWAY RECONSTRUCTION AND WATER SYSTEM IMPROVEMENTS WATER PLAN

**FAIR OAKS PARKWAY
STA 44+00 TO 52+00**

DESIGNER	DATE	CITY
RS	JULY 2016	FAIR OAKS RANCH
SCD	JULY 2016	
JM	8/7/16	C305

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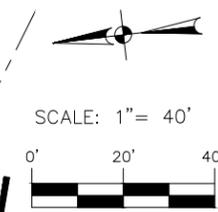
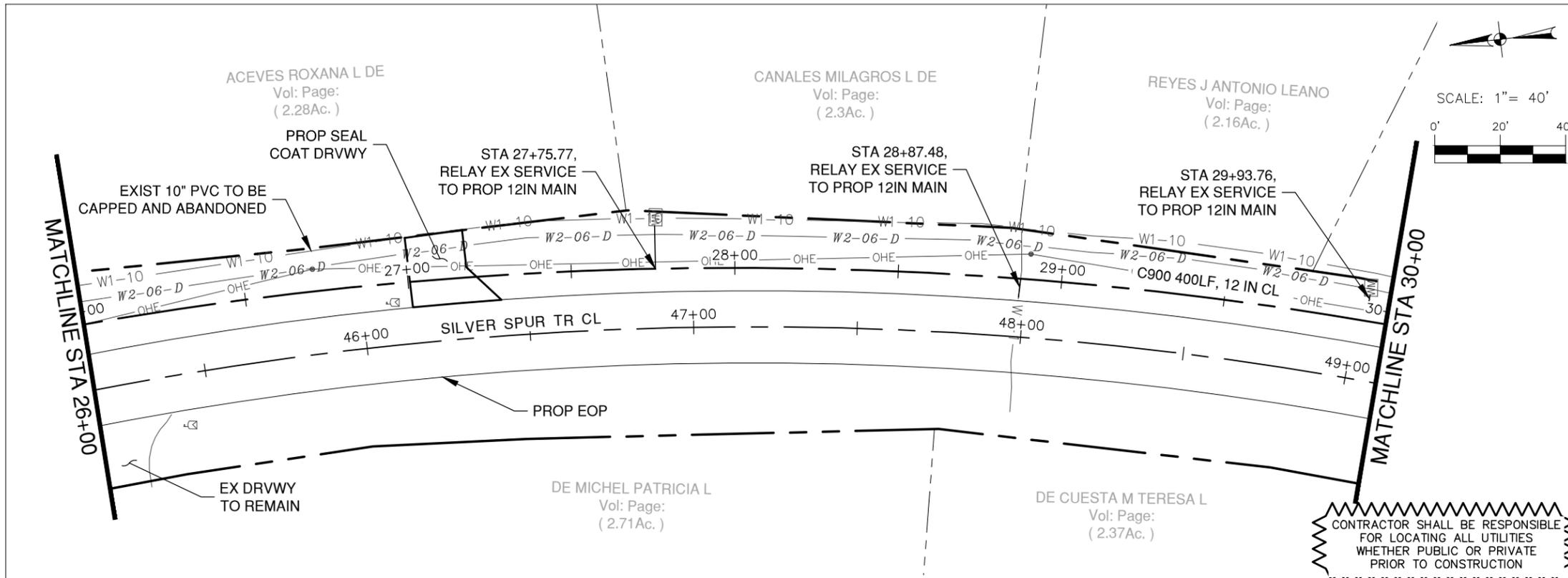
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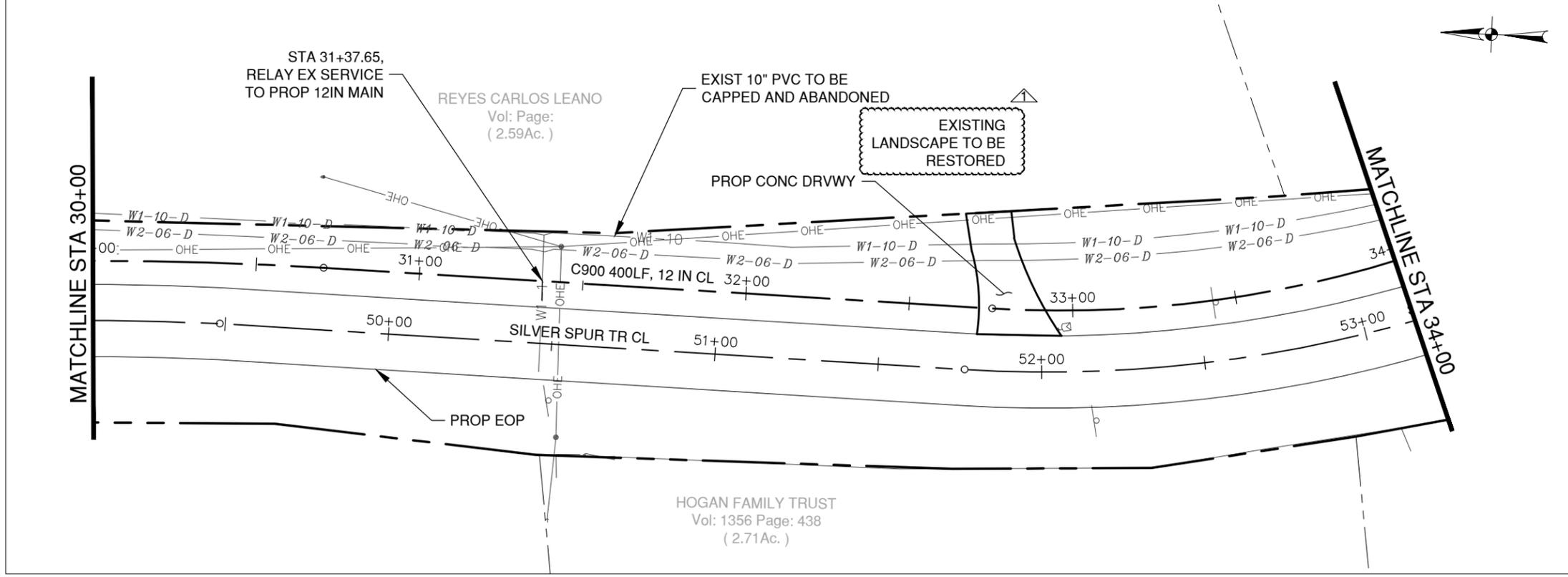
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REV. NO.	DATE	DESCRIPTION
1	8/10/16	LANDSCAPING ADDED

PAPE-DAWSON ENGINEERS

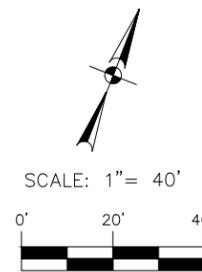
SAN ANTONIO | AUSTIN | HOUSTON | FORT WORTH | DALLAS
 2000 NEW LOOP 410 | SAN ANTONIO, TX 78218 | 210.376.0000
 TYPE FIRM REGISTRATION #4190 | TYPE FIRM REGISTRATION #1000000



FAIR OAKS RANCH ROADWAY RECONSTRUCTION AND WATER SYSTEM IMPROVEMENTS
 WATER PLAN
SILVER SPUR TRAIL - INTREPID
 STA 26+00 TO 34+00

DESIGNER	DATE	CITY
RS	JULY 2016	FAIR OAKS RANCH
SCD	JOB NO.	
JM	8778-00	C309

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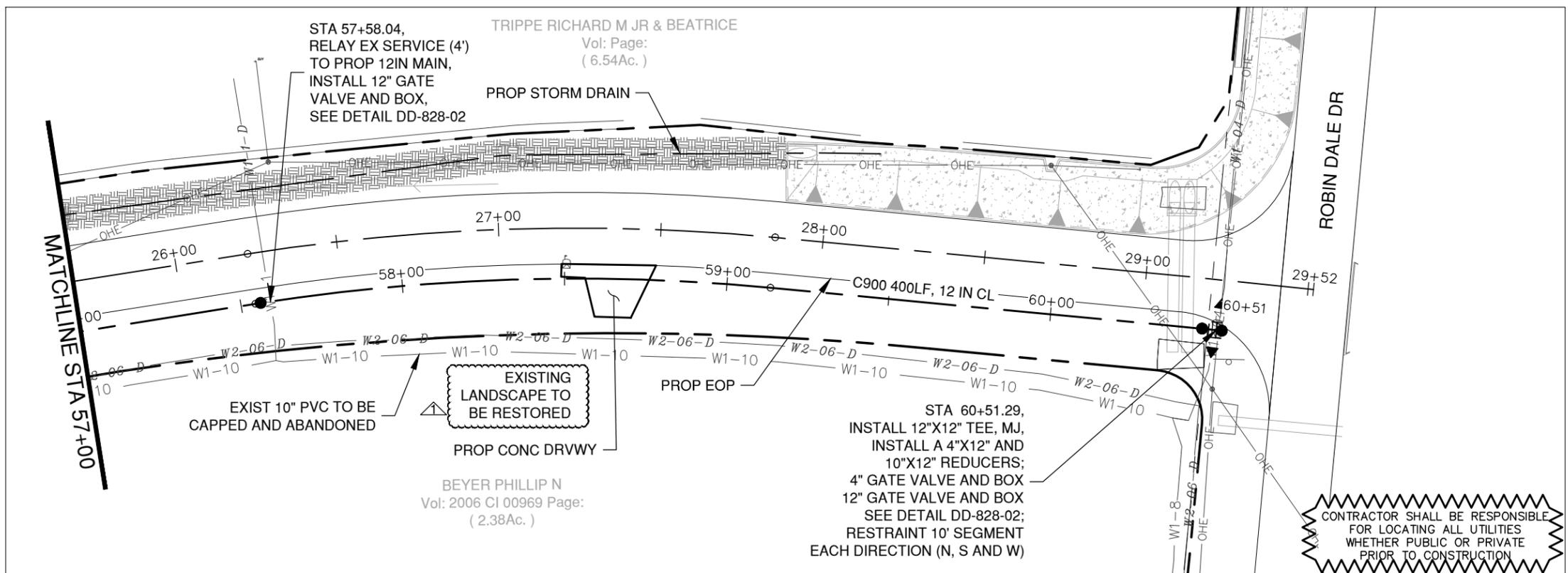
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STATE OF TEXAS
 STEVEN C. DEAN
 83905
 LICENSED PROFESSIONAL ENGINEER
Steven C. Dean
 STEVEN C. DEAN, P.E. 8/10/2016
 DATE

REV. NO.	DATE	DESCRIPTION
1	8/10/16	LANDSCAPING ADDED

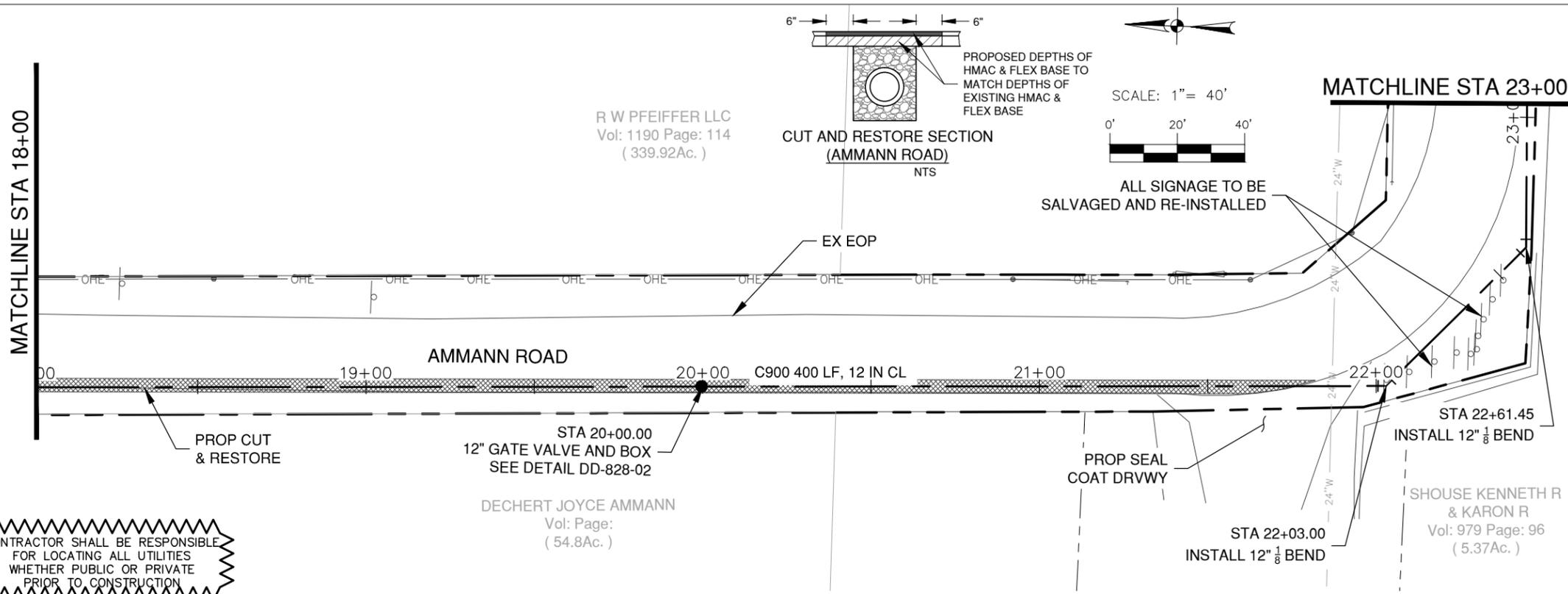
Pape-Dawson
ENGINEERS
 SAN ANTONIO | AUSTIN | HOUSTON | FORT WORTH | DALLAS
 2000 NEW LOOP 410 | SAN ANTONIO, TX 78215 | 210-370-0800
 TYPE FIRM REGISTRATION #4490 | TYPE FIRM REGISTRATION #1000000



FAIR OAKS RANCH ROADWAY RECONSTRUCTION
 AND WATER SYSTEM IMPROVEMENTS
 WATER PLAN
 SILVER SPUR TRAIL - INTREPID
 STA 57+00 TO END

	DATE	CITY
DESIGNER: RS	JULY 2016	FAIR OAKS RANCH
CHECKED: SCD	JOB NO.	
DRAWN: JM	8778-00	C313

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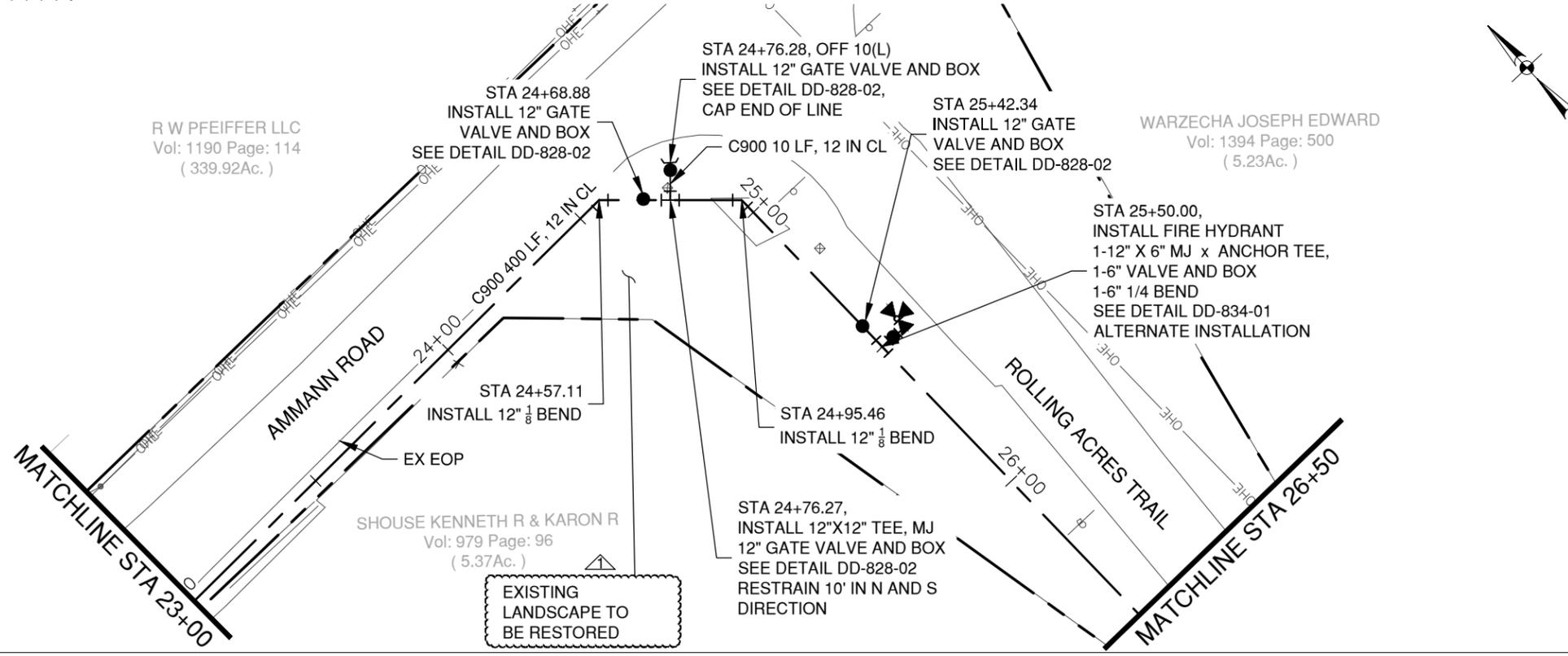
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STATE OF TEXAS
 STEVEN C. DEAN
 83905
 LICENSED PROFESSIONAL ENGINEER
 STEVEN C. DEAN, P.E.
 8/10/2016
 DATE

REV. NO.	DATE	DESCRIPTION
1	8/10/16	LANDSCAPING ADDED

PAPE-DAWSON ENGINEERS

SAN ANTONIO | AUSTIN | HOUSTON | FORT WORTH | DALLAS
 2000 NEW LOOP 410 | SAN ANTONIO, TX 78215 | 210-370-0800
 TYPE FIRM REGISTRATION #4790 | TYPE FIRM REGISTRATION #1000000



FAIR OAKS RANCH ROADWAY RECONSTRUCTION AND WATER SYSTEM IMPROVEMENTS
 WATER PLAN
 AMMANN ROAD - ROLLING ACRES
 STA 18+00 TO 26+50

DESIGNER	DATE	CITY
RS	JULY 2016	FAIR OAKS RANCH
SCD	JOB NO.	
JM	8778-00	C315

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