

# MESQUITE HILLS UNIT 7

BEING PORTION OF TRACTS 5 AND 6, SECTION 16, BLOCK 80, TOWNSHIP 1, TEXAS AND PACIFIC RAILROAD CO. SURVEYS, CITY OF EL PASO, EL PASO COUNTY, TEXAS CONTAINING: 108.78 ACRES

CURVE	RADIUS	LENGTH	TANGENT	CHORD	BEARING	DELTA
C1	25.00	39.27	25.00	35.36	S45°59'42"E	90°00'00"
C2	528.00	372.97	194.65	365.26	N68°48'08"E	40°28'21"
C3	974.00	16.61	8.31	16.61	S71°51'38"W	0°58'38"
C4	560.00	154.49	77.74	154.00	N81°08'07"E	15°48'23"
C5	560.00	241.08	122.44	239.23	N60°51'56"E	24°39'58"
C6	2000.00	242.35	121.32	242.20	S86°29'31"W	6°58'34"
C7	2000.00	166.95	83.53	166.91	S80°27'45"W	4°46'58"
C8	2000.00	21.53	10.77	21.53	S77°54'45"W	0°37'01"
C9	1000.00	198.69	99.67	198.37	N83°18'47"E	11°23'03"
C10	1000.00	201.66	101.17	201.31	N83°18'47"E	11°23'03"
C11	1000.00	124.46	62.25	124.44	S79°19'40"W	3°45'12"
C12	1900.00	290.46	145.52	290.18	S85°39'02"W	8°45'33"
C13	20.00	31.42	20.00	28.28	S45°59'42"E	90°00'00"
C14	20.00	31.42	19.66	28.04	N44°78'31"E	89°01'26"
C15	1925.00	33.60	16.80	33.60	S88°29'15"W	1°00'00"
C16	1925.00	46.58	23.29	46.58	S87°17'39"W	1°23'11"
C17	1925.00	46.58	23.29	46.58	S85°54'28"W	1°23'11"
C18	1925.00	46.58	23.29	46.58	S84°31'17"W	1°23'11"
C19	1925.00	46.58	23.29	46.58	S83°08'06"W	1°23'11"
C20	1925.00	46.58	23.29	46.58	S81°44'55"W	1°23'11"
C21	1925.00	46.58	23.29	46.58	S80°21'44"W	1°23'11"
C22	1925.00	46.58	23.29	46.58	S78°58'34"W	1°23'11"
C23	1925.00	46.58	23.29	46.58	S77°35'23"W	1°23'11"
C24	1925.00	46.58	23.29	46.58	S76°12'12"W	1°23'11"
C25	1925.00	46.58	23.29	46.58	S74°49'01"W	1°23'11"
C26	1925.00	46.58	23.29	46.58	S73°25'50"W	1°23'11"
C27	1925.00	46.58	23.29	46.58	S72°02'40"W	1°23'11"
C28	1925.00	46.58	23.29	46.58	S70°39'30"W	1°23'11"
C29	1925.00	46.58	23.29	46.58	S69°16'20"W	1°23'11"
C30	1925.00	46.58	23.29	46.58	S67°53'10"W	1°23'11"
C31	1925.00	46.58	23.29	46.58	S66°30'00"W	1°23'11"
C32	1925.00	46.58	23.29	46.58	S65°06'50"W	1°23'11"
C33	1925.00	46.58	23.29	46.58	S63°43'40"W	1°23'11"
C34	1925.00	46.58	23.29	46.58	S62°20'30"W	1°23'11"
C35	1925.00	46.58	23.29	46.58	S60°57'20"W	1°23'11"
C36	1925.00	46.58	23.29	46.58	S59°34'10"W	1°23'11"
C37	1925.00	46.58	23.29	46.58	S58°11'00"W	1°23'11"
C38	1925.00	46.58	23.29	46.58	S56°47'50"W	1°23'11"
C39	1925.00	46.58	23.29	46.58	S55°24'40"W	1°23'11"
C40	1925.00	46.58	23.29	46.58	S54°01'30"W	1°23'11"
C41	1925.00	46.58	23.29	46.58	S52°38'20"W	1°23'11"
C42	1925.00	46.58	23.29	46.58	S51°15'10"W	1°23'11"
C43	1925.00	46.58	23.29	46.58	S49°52'00"W	1°23'11"
C44	1925.00	46.58	23.29	46.58	S48°28'50"W	1°23'11"
C45	1925.00	46.58	23.29	46.58	S47°05'40"W	1°23'11"
C46	1925.00	46.58	23.29	46.58	S45°42'30"W	1°23'11"
C47	1925.00	46.58	23.29	46.58	S44°19'20"W	1°23'11"
C48	1925.00	46.58	23.29	46.58	S42°56'10"W	1°23'11"
C49	1925.00	46.58	23.29	46.58	S41°33'00"W	1°23'11"
C50	1925.00	46.58	23.29	46.58	S40°09'50"W	1°23'11"

CURVE	RADIUS	LENGTH	TANGENT	CHORD	BEARING	DELTA
C80	20.00	39.27	25.00	35.36	S45°59'42"E	90°00'00"
C81	20.00	31.42	20.00	28.28	N44°78'31"E	89°01'26"
C82	20.00	31.42	20.00	28.28	S45°59'42"E	90°00'00"
C83	30.00	47.12	30.00	42.43	S44°00'18"W	90°00'00"
C84	1025.00	46.25	23.13	46.25	N87°24'44"E	2°35'08"
C85	1025.00	46.25	23.13	46.25	N87°24'44"E	2°35'08"
C86	1025.00	46.25	23.13	46.25	N87°24'44"E	2°35'08"
C87	1025.00	46.25	23.13	46.25	N87°24'44"E	2°35'08"
C88	1025.00	46.25	23.13	46.25	N87°24'44"E	2°35'08"
C89	1975.00	29.34	14.67	29.34	S78°02'47"W	0°51'04"
C90	1975.00	49.09	24.55	49.09	S79°11'02"W	1°25'27"
C91	1975.00	49.09	24.55	49.09	S80°19'18"W	1°25'27"
C92	1975.00	49.09	24.55	49.09	S81°27'34"W	1°25'27"
C93	1975.00	49.09	24.55	49.09	S82°35'50"W	1°25'27"
C94	1975.00	49.09	24.55	49.09	S83°44'06"W	1°25'27"
C95	1975.00	49.09	24.55	49.09	S84°52'22"W	1°25'27"
C96	1975.00	49.09	24.55	49.09	S86°00'38"W	1°25'27"
C97	1975.00	49.09	24.55	49.09	S87°08'54"W	1°25'27"
C98	20.00	31.42	20.00	28.28	N45°18'30"W	90°00'00"
C99	20.00	31.42	20.00	28.28	S45°59'42"E	90°00'00"
C100	20.00	31.42	20.00	28.28	S45°59'42"E	90°00'00"
C101	20.00	31.26	19.84	28.17	N44°44'08"E	89°32'39"
C102	2025.00	32.86	16.43	32.86	S89°02'34"W	0°55'46"
C103	2025.00	46.73	22.86	46.72	S87°55'52"W	1°17'38"
C104	2025.00	82.90	41.46	82.90	S86°06'41"W	2°20'45"
C105	20.00	28.52	15.62	24.62	S67°04'05"E	75°59'12"
C106	50.00	21.76	11.06	21.59	N31°38'03"W	24°56'26"
C107	50.00	30.75	15.88	30.27	N61°38'03"W	35°14'17"
C108	50.00	30.75	15.88	30.27	S83°02'40"W	35°14'17"
C109	50.00	30.75	15.88	30.27	S47°53'23"W	35°14'17"
C110	50.00	21.95	11.16	21.78	S17°41'35"W	25°09'18"

CURVE	RADIUS	LENGTH	TANGENT	CHORD	BEARING	DELTA
C111	20.00	26.52	15.62	24.62	N43°06'33"E	75°59'12"
C112	2025.00	65.39	32.70	65.39	S80°10'39"W	1°17'00"
C113	20.00	29.30	17.59	26.75	S58°46'28"E	83°56'47"
C114	20.00	33.42	22.11	30.42	N83°30'36"E	84°43'57"
C115	975.00	40.71	20.36	40.70	N88°08'34"E	2°23'32"
C116	975.00	49.47	24.74	49.46	N82°47'32"E	2°54'25"
C117	975.00	49.46	24.73	49.45	N85°41'56"E	2°54'23"
C118	975.00	28.69	14.34	28.69	N87°59'42"E	1°41'09"
C119	40.00	18.15	9.24	18.00	S78°09'36"E	2°50'15"
C120	70.00	1.49	0.74	1.49	N65°45'59"W	11°30'33"
C121	70.00	42.77	22.08	42.11	N83°24'44"W	33°00'26"
C122	70.00	34.82	17.78	34.46	S84°22'00"W	28°50'07"
C123	70.00	34.82	17.78	34.46	S35°51'53"W	30°00'07"
C124	70.00	36.85	18.86	36.42	S08°32'00"W	30°09'39"
C125	70.00	22.35	11.27	22.25	S17°41'31"E	18°17'23"
C126	40.00	18.04	9.18	17.89	N13°54'57"W	25°50'31"
C127	25.00	39.27	25.00	35.36	S44°00'18"W	90°00'00"
C128	592.00	9.40	4.70	9.40	N85°33'00"E	0°54'37"
C129	592.00	43.73	21.88	43.72	N85°58'43"E	41°35'57"
C130	592.00	43.73	21.88	43.72	N81°44'46"E	41°35'57"
C131	592.00	23.23	11.62	23.23	N78°30'20"E	21°45'55"
C132	25.00	37.44	23.24	34.04	S59°42'36"W	85°49'03"
C133	25.00	37.44	23.24	34.04	S26°06'27"W	85°49'03"
C134	592.00	108.05	54.17	107.90	N63°47'16"E	102°27'25"
C135	592.00	103.80	51.93	103.48	N57°32'45"E	102°31'36"
C136	40.00	20.30	10.37	20.07	N14°34'36"E	29°04'49"
C137	40.00	5.57	2.79	5.57	N33°06'23"W	7°58'45"
C138	70.00	44.23	22.88	43.50	S18°59'44"E	36°12'02"
C139	70.00	34.76	17.75	34.41	S13°19'55"W	28°27'16"
C140	70.00	34.51	17.61	34.16	S41°40'55"W	28°14'44"
C141	70.00	34.51	17.61	34.16	S69°55'39"W	28°14'44"

NOTES:  
 WATER AND SEWER SERVICES WILL BE EXTENDED TO THIS SUBDIVISION (MESQUITE HILLS UNIT 7) FROM EXISTING EL PASO WATER UTILITIES/PUBLIC SERVICE BOARD FACILITIES AND WILL BE CONSTRUCTED AND OPERABLE AS OF...  
 THE INSTRUMENT ASSURING THE CERTIFICATION THAT WATER AND SEWER SERVICES FACILITIES DESCRIBED BY THIS PLAN ARE IN COMPLIANCE WITH THE MODEL RULES ADOPTED UNDER SECTION 16.043, TEXAS WATER CODE IS FILED IN THE OFFICE OF THE COUNTY CLERK, DEED AND RECORD SECTION.  
 INSTRUMENT No. 2014-00353871-92 DATE 5/29/14  
 TAX CERTIFICATE FOR THIS SUBDIVISION ARE FILED IN THE OFFICE OF THE COUNTY CLERK, DEED AND RECORD SECTION.  
 INSTRUMENT No. 2014-00353873 DATE 5/29/14  
 VEHICULAR ACCESS TO THOSE RESIDENTIAL LOTS ABUTTING MESQUITE HILL DRIVE AND BOLD EAGLE LANE SHALL BE FROM OTHER DEDICATED STREETS ONLY. THE INSTRUMENT ASSURING RELEASE OF ACCESS IS FILED IN THE OFFICE OF THE COUNTY CLERK, DEED AND RECORD SECTION.  
 RESTRICTIVE COVENANTS FOR THIS SUBDIVISION ARE FILED IN THE OFFICE OF THE COUNTY CLERK, DEED AND RECORD SECTION.  
 LOT CORNERS WILL BE SET UPON COMPLETION OF CONSTRUCTION OF ROADWAYS AND UTILITIES.  
 U.S. POSTAL SERVICE DELIVERY WILL BE PROVIDED THROUGH NEIGHBORHOOD DELIVERY AND COLLECTION BOX UNITS.  
 SET 1/2" REBAR WITH CAP MARKED TX 5152 AT ALL EXTERIOR BOUNDARY CORNERS UNLESS OTHERWISE NOTED.  
 ACCORDING TO THE FEDERAL EMERGENCY MANAGEMENT AGENCY FLOOD INSURANCE RATE MAP COMMUNITY PANEL NO. 480214-00090, DATED JANUARY 3, 1997, PROPERTY IS IN FLOOD HAZARD ZONE C "AREAS OF MINIMAL FLOODING".  
 STREET CLASSIFICATION:  
 40' R.O.W. = 20' RESIDENTIAL LANE PARKING  
 50' R.O.W. = 30' LOCAL RESIDENTIAL  
 52' R.O.W. = 32' LOCAL RESIDENTIAL  
 64' R.O.W. = NON-RESIDENTIAL 4 LANE COLLECTOR.

CURVE	RADIUS	LENGTH	TANGENT	CHORD	BEARING	DELTA
C142	70.00	30.45	15.47	30.21	N83°28'15"W	24°55'27"
C143	40.00	13.27	6.70	13.21	S80°31'52"E	19°00'40"
C144	40.00	47.12	30.00	42.43	S44°57'48"W	90°00'00"
C145	40.00	15.77	7.99	15.67	N78°40'10"E	22°35'16"
C146	70.00	15.28	7.67	15.25	N78°40'10"E	22°35'17"
C147	70.00	38.16	19.56	37.68	N84°30'18"W	31°34'40"
C148	70.00	35.11	17.93	34.74	N54°31'13"W	28°44'17"
C149	70.00	35.11	17.93	34.74	N25°46'54"W	28°44'22"
C150	70.00	41.60	21.43	40.99	N05°36'42"E	34°02'50"
C151	40.00	1.14	0.57	1.14	S21°49'13"W	1°37'48"
C152	40.00	14.69	7.43	14.61	S10°29'04"W	21°02'31"
C153	30.00	47.12	30.00	42.43	N45°31'12"W	90°00'00"
C154	20.00	31.42	20.00	28.28	N44°57'48"E	90°00'00"
C155	20.00	31.42	20.00	28.28	S45°59'42"E	90°00'00"

CURVE	RADIUS	LENGTH	TANGENT	CHORD	BEARING	DELTA
C156	20.00	31.08	19.67	28.04	N45°31'12"W	89°02'00"
C157	20.00	31.75	20.34	28.52	S44°28'48"W	90°58'07"
C158	30.00	46.62	29.50	42.07	N45°31'12"W	89°02'00"
C159	40.00	13.26	6.69	13.20	N80°27'52"E	18°58'57"
C160	70.00	38.42	19.70	37.94	N87°22'02"W	31°26'36"
C161	70.00	33.58	17.12	33.26	N57°54'08"W	27°29'12"
C162	70.00	33.58	17.12	33.26	N30°24'56"W	27°29'12"
C163	70.00	39.64	20.37	39.11	N00°27'00"W	32°26'40"
C164	70.00	11.08	5.55	11.06	N20°18'20"E	09°03'59"
C165	40.00	18.04	9.18	17.89	S11°55'04"W	25°50'31"
C166	40.00	31.75	20.34	28.52	N44°28'48"E	90°58'07"
C167	20.00	31.75	20.34	28.52	N44°28'	

# MESQUITE HILLS UNIT 7

BEING PORTION OF TRACTS 5 AND 6, SECTION 16, BLOCK 80, TOWNSHIP 1, TEXAS AND PACIFIC RAILROAD Co. SURVEYS, CITY OF EL PASO, EL PASO COUNTY, TEXAS CONTAINING: 108.78 ACRES

1) That no permits, including grading permits, be issued by the City until full provision for water and sewer are available from either PSB or the Developers and service is available for actual use.  
 2) At the time the PSB is able to provide water and sewer and that the development is required to hook up, at their expense, to the PSB water and sewer and that this be recorded in the plat and that a provision be made for the hook up.  
 Impact fees shall be calculated based on the table below:

Chapter 395 of the Texas Local Government Code authorizes the City of El Paso to adopt and impose water and wastewater impact fees. This plat fulfills an obligation mandated by Chapter 395 and sets the assessment of the impact fees in accordance with the impact fee schedule adopted by City Council on set forth below. The collection of the impact fee for this subdivision shall be prior to the time a building permit is issued if development is within the city limits or at the time of the meter connection if development is outside of the city limits.

TRACT 4-B GARDEA, LUIS I BK. 2942 PG. 0657 PROP. ID # 16223

**NORTHEAST SERVICE AREA**

Meter Size	Meter Capacity	*Water (\$)	*Wastewater (\$)
Less than 1"	1.00	1,178.00	291.00
1"	1.67	1,967.00	486.00
1 1/2"	3.33	3,921.00	969.00
2"	5.33	6,276.00	1,551.00
3"	10.00	11,775.00	2,910.00
4"	16.67	19,628.00	4,851.00
6"	33.33	39,246.00	9,699.00
8"	53.33	62,796.00	15,510.00
10"	76.67	90,279.00	22,310.00
12"	143.33	168,771.00	41,709.00

\* Fees do not apply to water meter or connections made for standby fire protection service.

TRACT 4-B GARDEA, LUIS I BK. 2942 PG. 0657 PROP. ID # 16223



**LINE TABLE**

LINE	LENGTH	BEARING
L1	25.33	N89°53'48"E
L2	52.08	N02°59'26"E
L3	19.54	N65°18'40"E
L4	44.12	S70°57'04"W
L5	50.07	S85°56'07"W
L6	42.00	N89°00'18"W
L7	42.00	S89°00'18"W
L8	28.73	N89°57'48"E
L9	29.19	N06°58'46"W
L10	79.21	S89°00'18"W
L11	34.21	S89°57'48"E
L12	34.02	S00°05'12"E
L13	93.26	N08°47'45"W
L14	11.87	S89°57'48"E
L15	42.29	S00°00'12"E
L16	73.48	S07°49'15"E
L17	26.00	S89°54'48"W
L18	29.20	S89°53'48"W
L19	53.40	N89°53'49"E
L20	48.35	N89°58'08"E
L21	48.35	N02°59'26"E
L22	57.00	N00°59'42"W
L23	57.00	N00°59'42"W
L24	50.00	N00°59'42"W
L25	50.00	N00°59'42"W
L26	25.04	S85°56'07"W
L27	25.04	N02°59'26"E
L28	45.33	N02°59'26"E
L29	28.04	N02°59'26"E
L30	28.04	N02°59'26"E
L31	26.04	N78°21'27"E

**NOTES:**  
 LOT CORNERS WILL BE SET UPON COMPLETION OF CONSTRUCTION OF ROADWAYS AND UTILITIES.  
 "U.S. POSTAL SERVICE DELIVERY WILL BE PROVIDED THROUGH NEIGHBORHOOD DELIVERY AND COLLECTION BOX UNITS".  
 SET 1/2" REBAR WITH CAP MARKED TX 5152 AT ALL EXTERIOR BOUNDARY CORNERS UNLESS OTHERWISE NOTED.  
 ACCORDING TO THE FEDERAL EMERGENCY MANAGEMENT AGENCY FLOOD INSURANCE RATE MAP COMMUNITY PLAN NO. 480214-0090, DATED JANUARY 3, 1997, PROPERTY IS IN FLOOD HAZARD ZONE "C" AREAS OF MINIMAL FLOODING".  
**FLOOD CLASSIFICATION:** 40' R.O.W. = 20' RESIDENTIAL LANE NO PARKING.  
 50' R.O.W. = 30' LOCAL RESIDENTIAL LANE.  
 62' R.O.W. = 32' LOCAL RESIDENTIAL LANE.  
 54' R.O.W. = NON-RESIDENTIAL 4 LANE COLLECTOR.

**CURVE TABLE**

CURVE	RADIUS	LENGTH	TANGENT	CHORD	BEARING	DELTA
C186	1475.00	51.13	25.57	51.13	S09°32'57"E	159°11"
C187	1475.00	28.33	14.16	28.32	S11°05'33"E	106°01"
C188	1525.00	18.17	9.09	18.17	S11°18'04"E	040°58"
C189	1525.00	46.15	23.08	46.15	S10°05'34"E	144°02"
C190	1525.00	46.15	23.08	46.15	S08°21'32"E	144°02"
C243	1225.00	52.80	26.41	52.80	S17°52'28"W	228°11"
C244	1225.00	52.80	26.41	52.80	S84°47'27"W	228°11"
C245	1225.00	52.80	26.41	52.80	N88°18'01"E	044°16"
C246	1225.00	37.80	18.90	37.80	S01°40'58"W	148°05"

**CURVE TABLE**

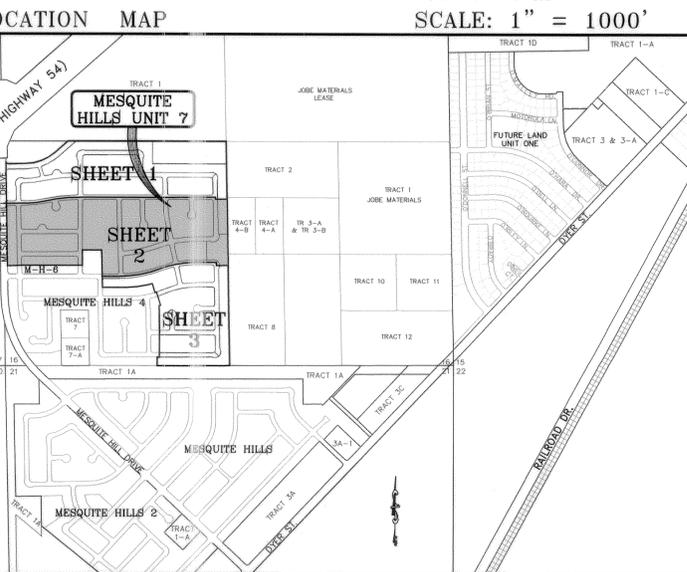
CURVE	RADIUS	LENGTH	TANGENT	CHORD	BEARING	DELTA
C236	1275.00	19.11	9.55	19.11	S89°28'03"W	051°31"
C237	30.00	4.60	30.47	42.78	N44°26'48"E	90°54'00"
C238	40.00	20.03	10.23	8.92	S12°02'48"E	284°106"
C239	70.00	15.85	9.96	15.82	N23°31'05"W	52°58'29"
C240	70.00	15.95	14.69	12.61	N47°55'40"E	129°16'55"
C241	40.00	15.83	8.02	15.72	N78°46'02"W	224°19'50"
C242	1225.00	30.02	16.01	30.02	S89°11'41"W	124°16"

**CURVE TABLE**

CURVE	RADIUS	LENGTH	TANGENT	CHORD	BEARING	DELTA
C60	1875.00	86.72	43.37	86.72	S87°36'54"W	239°00"
C61	1875.00	114.50	57.27	114.48	S84°32'26"W	329°59"
C62	20.00	46.91	47.55	36.87	S15°36'10"W	134°22'36"
C63	50.00	29.40	15.14	28.98	N34°44'29"W	334°11'27"
C64	50.00	36.02	18.86	35.05	N02°44'28"E	411°6'36"
C65	50.00	33.69	17.51	33.06	N42°41'02"E	381°6'33"
C66	50.00	33.69	17.51	33.06	N81°17'35"E	38°36'33"
C67	50.00	33.69	17.51	33.06	S60°05'52"E	38°36'33"
C68	50.00	35.99	18.81	35.22	S20°10'26"E	411°14'18"
C69	50.00	29.28	16.07	28.86	S17°13'10"W	333°32'36"
C70	20.00	46.91	47.55	36.87	N31°13'39"W	134°22'36"
C71	1875.00	70.89	35.45	70.89	N78°29'03"E	209°59"
C72	1025.00	44.70	22.35	44.69	N78°29'01"E	229°59"
C73	1025.00	47.04	23.52	47.03	N81°55'15"E	237°45"
C74	1025.00	47.04	23.52	47.03	N83°33'36"E	236°19"
C75	1025.00	46.61	23.31	46.60	N86°30'39"E	236°19"
C76	1025.00	21.32	10.66	21.32	N88°24'33"E	111°30"
C77	20.00	31.42	20.00	28.28	S44°00'18"E	90°00'00"
C78	20.00	31.42	20.00	28.28	N44°50'18"E	90°00'00"
C79	25.00	39.27	25.00	35.36	S04°33'27"W	90°00'00"
C167	20.00	31.08	19.67	28.04	N45°31'12"W	89°02'00"
C168	20.00	31.75	20.34	28.52	S44°28'48"W	90°58'00"
C169	20.00	17.08	9.10	16.56	S25°27'44"W	48°50'00"
C170	50.00	25.54	13.06	25.27	N35°17'10"W	291°6'08"
C171	50.00	42.03	22.35	40.80	N03°24'53"E	48°09'39"
C172	50.00	36.34	19.02	35.58	N48°19'48"E	90°58'00"
C173	50.00	36.34	19.02	35.58	N68°58'52"E	41°58'53"
C174	50.00	36.34	19.02	35.58	S48°22'16"E	41°58'53"
C175	50.00	42.97	22.91	41.66	S02°55'35"E	491°42'36"
C176	50.00	22.88	11.64	22.68	S34°48'15"W	261°31'14"
C177	20.00	17.08	9.10	16.56	N23°27'20"E	48°50'04"
C178	20.00	31.08	19.67	28.04	N45°31'12"W	89°02'00"
C179	20.00	31.75	20.34	28.52	S44°28'48"W	90°58'00"
C180	20.00	31.08	19.67	28.04	S45°31'12"E	89°02'00"
C181	20.00	31.80	20.39	28.86	S44°24'42"W	91°06'12"
C182	1475.00	51.13	25.57	51.13	S01°52'07"E	172°26"
C183	1475.00	51.13	25.57	51.13	S03°35'25"E	159°11"
C184	1475.00	51.13	25.57	51.13	S05°34'35"E	159°11"
C185	1475.00	51.13	25.57	51.13	S07°33'46"E	159°11"

**CURVE TABLE**

CURVE	RADIUS	LENGTH	TANGENT	CHORD	BEARING	DELTA
C236	1275.00	19.11	9.55	19.11	S89°28'03"W	051°31"
C237	30.00	4.60	30.47	42.78	N44°26'48"E	90°54'00"
C238	40.00	20.03	10.23	8.92	S12°02'48"E	284°106"
C239	70.00	15.85	9.96	15.82	N23°31'05"W	52°58'29"
C240	70.00	15.95	14.69	12.61	N47°55'40"E	129°16'55"
C241	40.00	15.83	8.02	15.72	N78°46'02"W	224°19'50"
C242	1225.00	30.02	16.01	30.02	S89°11'41"W	124°16"
C243	1225.00	52.80	26.41	52.80	S17°52'28"W	228°11"
C244	1225.00	52.80	26.41	52.80	S84°47'27"W	228°11"
C245	1225.00	52.80	26.41	52.80	N88°18'01"E	044°16"
C246	1225.00	37.80	18.90	37.80	S01°40'58"W	148°05"
C247	20.00	31.75	20.34	28.52	S33°50'11"W	90°57'28"
C248	20.00	32.58	21.20	29.09	N58°18'15"W	93°19'26"
C249	1225.00	36.40	18.20	36.40	S74°01'58"W	142°09"
C250	1225.00	49.00	24.50	49.00	S72°11'08"W	217°31"
C251	1225.00	34.74	17.37	34.74	S70°13'38"W	152°29"
C252	1525.00	13.22	6.61	13.22	N83°04'47"E	029°48"
C253	1525.00	45.40	22.70	45.40	N70°45'52"E	142°21"
C254	1525.00	45.40	22.70	45.40	N72°28'13"E	142°21"
C255	1525.00	45.40	22.70	45.40	N74°00'34"E	142°21"
C256	1525.00	45.40	22.70	45.40	N75°52'56"E	142°21"
C257	1525.00	45.40	22.70	45.40	N77°35'16"E	142°21"
C258	1525.00	45.40	22.70	45.40	N79°17'36"E	142°21"
C259	1525.00	45.23	22.61	45.22	N80°59'47"E	141°01"
C260	1075.00	37.25	18.64	37.25	S70°26'21"W	159°07"
C301	1075.00	38.08	19.04	38.07	S72°09'23"W	159°07"
C302	20.00	32.16	20.78	28.28	N57°44'09"W	92°11'11"
C303	20.00	32.16	20.78	28.28	N44°00'28"W	91°48'39"
C304	1075.00	45.08	20.43	40.84	S82°08'56"W	210°37"
C305	1075.00	43.85	26.53	53.07	S84°39'07"W	249°45"
C306	1075.00	53.08	26.53	53.07	S82°24'46"W	249°45"
C307	1075.00	48.75	9.39	18.79	N45°33'12"E	89°08'00"
C308	30.00	16.65	29.53	42.09	N78°33'39"E	224°01'19"
C309	40.00	15.83	8.02	15.72	N78°46'02"W	224°19'50"
C310	70.00	15.85	10.33	15.91	N65°53'21"W	111°46'19"

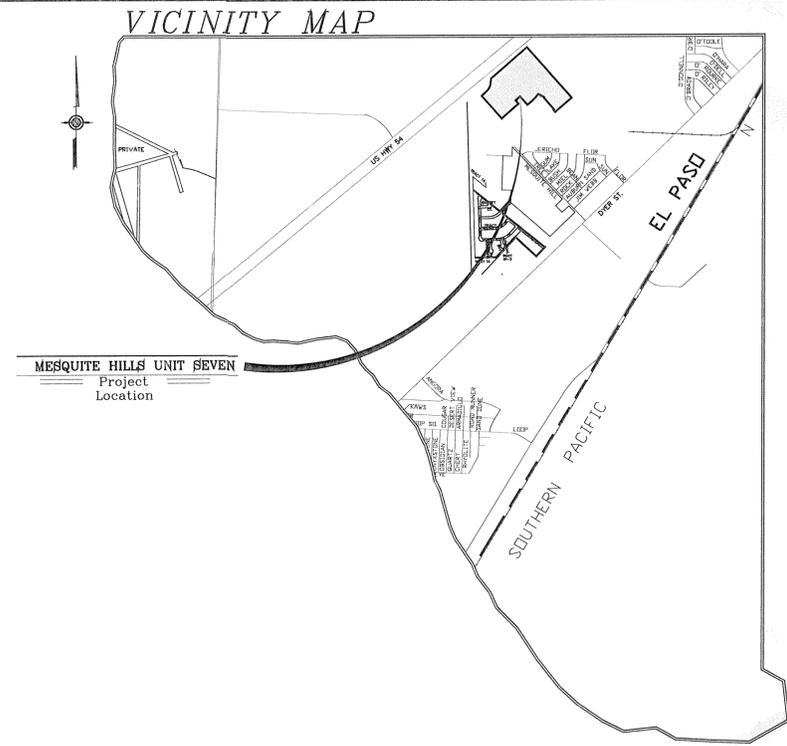
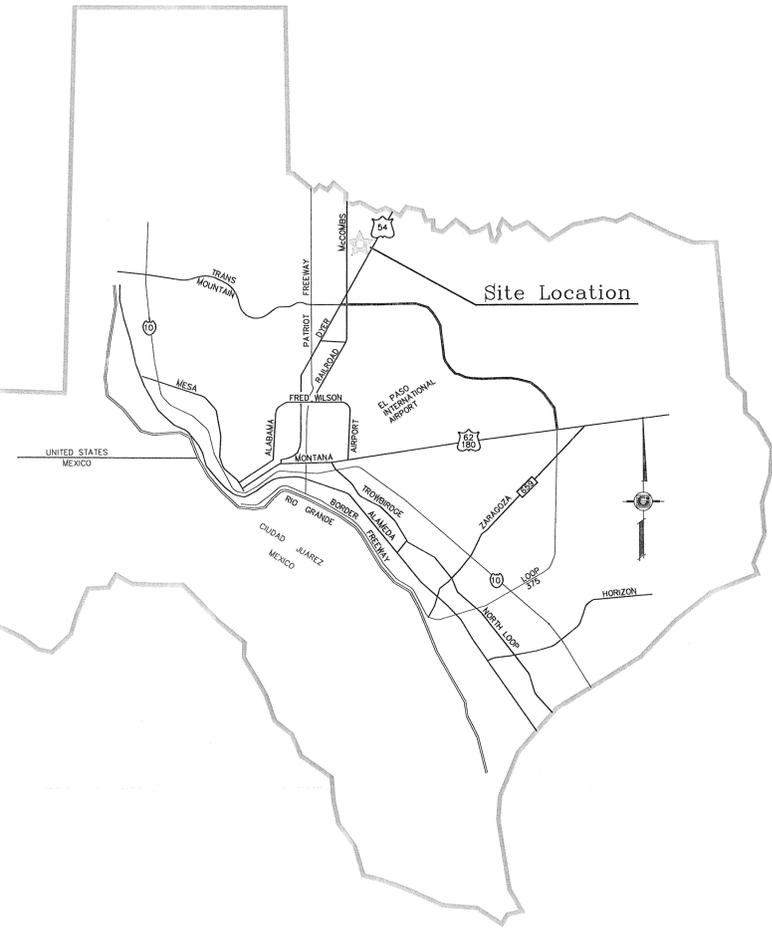


**CURVE TABLE**

CURVE	RADIUS	LENGTH	TANGENT	CHORD	BEARING	DELTA
C1	25.00	39.27	25.00	35.36	S45°59'42"E	300°00'00"
C2	528.00	372.97	194.65	365.26	N68°46'08"E	402°28'21"
C3	974.00	16.61	8.31	16.61	S71°53'38"W	058°38"
C4	560.00	154.49	77.74	154.00	N81°06'07"E	154°28'33"
C5	560.00	241.08	122.44	239.23	N60°51'56"E	249°59'58"
C6	560.00	241.08	122.44	239.23	S86°29'31"W	636°34"
C7	2000.00	166.95	83.53	166.91	S80°17'45"W	445°58"
C8	2000.00	21.53	10.77	21.53	S77°55'45"W	037°01"
C9	1000.00	198.69	99.67	198.37	N83°18'47"E	112°33'03"
C10	1000.00	206.27	103.17	203.31	N83°13'41"E	113°31'14"
C11	1900.00	124.46	62.25	124.44	S79°19'40"W	345°12"
C12	1900.00	290.46	145.52	290.18	S69°50'02"W	845°33"
C13	1000.00	156.08	78.04	156.08	S01°27'01"E	095°33'69"
C14	500.00	59.50	29.78	59.46	S04°24'44"E	649°03"
C15	1000.00	278.54	139.67	278.14	S06°19'22"E	103°28'11"
C16	1250.00	276.61	138.87	276.04	S83°33'27"W	124°04'43"
C17	1250.00	170.24	85.25	170.11	S73°18'59"W	748°11"
C18	1500.00	448.94	226.16	447.27	N77°59'20"E	170°54"
C19	1500.00	47.41	23.71	47.41	N89°00'29"E	144°39"
C20	1500.00	488.41	246.39	486.26	N74°46'28"E	83°59'21"
C21	1100					



*El Paso*

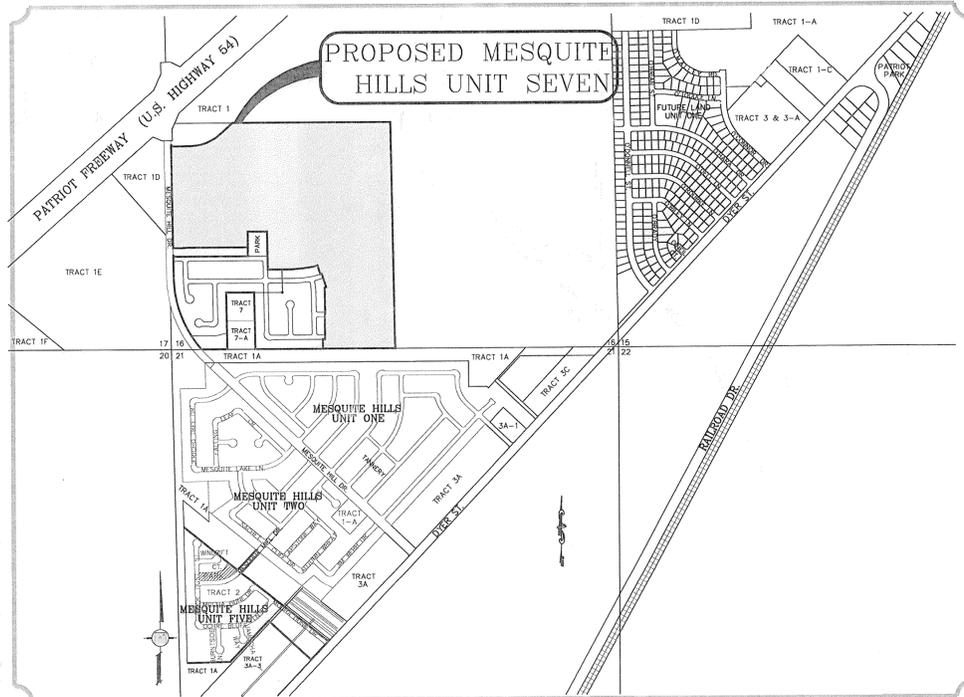


# STREET IMPROVEMENTS

I N D E X

LOCATION MAP

SCALE: 1" = 600'



TITLE	SHEET No.		TITLE	SHEET No.	
COVER SHEET	1	of 80	RED MAN DR.	43-46	of 80
PLAT	2-4	of 80	SPRUCE WOOD CT.	47	of 80
GRADING PLAN	5-7	of 80	TURTLE CREEK CT.	48	of 80
GRADING SECTIONS	8-9	of 80	ZAVI PL. / NORTH SKIES LN.	49-52	of 80
DRAINAGE PLAN	10-12	of 80	PROPOSED POND A	53	of 80
STORM WATER POLLUTION PREVENTION PLAN & NOTES	13-16	of 80	PROPOSED POND B	54	of 80
BOLD EAGLE LN.	17-18	of 80	PROPOSED STRUCTURES 1-4	55-58	of 80
BUCK SKIN PL.	19-20	of 80	PROPOSED CONCRETE SPILLWAY	59	of 80
BUCKSHOT PL. & FOX RUN WAY	21	of 80	TRAFFIC CONTROL AND ILLUMINATION PLAN	60-62	of 80
CHERRY WOOD LN.	22-23	of 80	SANITARY SEWER DISTRIBUTION	63-65	of 80
COPPER CANYON DR.	24	of 80	SANITARY SEWER PROFILES	66-69	of 80
COPPER SKY CT.	25	of 80	WATER DISTRIBUTION	70-72	of 80
COPPER TOWN DR. / PRAIRIE RIDGE ST. / COPPER TRAIL AVE.	26-30	of 80	WATER AND SEWER DETAILS	73-76	of 80
COPPER VALLEY LN. / LONG MEADOW DR. / MIDDLE FORK PL. / DUST STORM PL.	31-38	of 80	STRUCTURE DETAILS	77-78	of 80
DRIFTWOOD LN.	39	of 80	STANDARD DETAILS	79-80	of 80
EAGLE NEST CT.	40	of 80	PROPOSED LANDSCAPE AND IRRIGATION	L1-L8	of 8
EASY JET WAY	41	of 80			
NORTH BREEZE PL.	42	of 80			



*Yuan* 5-7-14

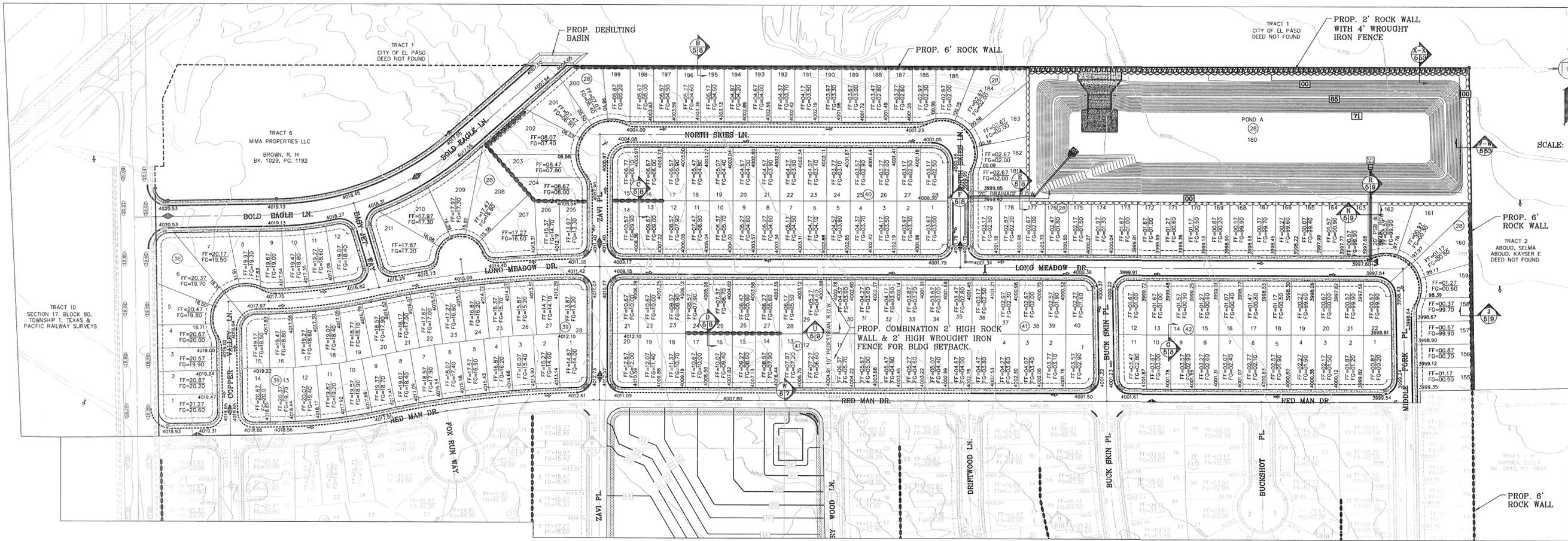
PROJECT NAME  
**MESQUITE HILLS UNIT SEVEN**  
 BEING PORTION OF TRACTS 5 AND 6, SECTION 16, BLOCK 80,  
 TOWNSHIP 1, TEXAS AND PACIFIC RAILROAD Co. SURVEYS,  
 CITY OF EL PASO, EL PASO COUNTY, TEXAS  
 CONTAINING: 108.78 ACRES



ENGINEERING / PLANNING  
 SURVEYING / GPS  
 6080 SURETT DR. SITE 100  
 EL PASO, TEXAS 79905  
 PHONE: (915) 592-0283  
 FAX: (915) 592-0286



COVER SHEET



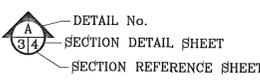
**GRADING STABILIZATION NOTES:**

- A. STABILIZATION MEASURE FOR LOT 181, BLOCK 28 (POND) TO BE HYDROMULCH SLOPES  
**DESIGN:** ROUGHEN SLOPES.  
**MIX:** 85-85 lbs WOOD MULCH/1000 s.f.  
**SEED:** BUFFALO GRASS SEED @ 25 lbs/1000 s.f.  
**WATER:** 30-35 lbs of MULCH PER 100 GALLONS of WATER.  
 WATER SLOPE THEN APPLY HYDROMULCH.  
 TEMPORARY IRRIGATION AND WATER SLOPES TWICE PER WEEK UNTIL VEGETATION ESTABLISHED.

**FLOOD ZONE:**  
 HEREON DESCRIBED TRACT LIES IN FLOOD ZONE C. COMMUNITY PANEL NO. 480214 0009D & PANEL NO. 480214 0016D SEPTEMBER 3, 1997

**NOTE:**  
 ALL RETAINING WALLS EQUAL TO AND/OR HIGHER THAN 4' AND ALL WHEELCHAIR RAMPS TO BE BY DEVELOPER

**SEE SHEET 55-58 FOR DRAINAGE STRUCTURES #1-#4**



**LEGEND**

- FF=0.67, FG=00.00: PROPOSED FINISH FLOOR, PROPOSED FINISH GROUND
- ▲: HIGH POINT
- ▼: LOW POINT
- 4000: EXISTING CONTOUR
- 4000: EXISTING SPOT ELEVATION
- 4000: PROPOSED CONTOUR
- : PROPOSED ROCK WALL
- : PROPOSED RETAINING WALL
- : PROPOSED 2' ROCK WALL WITH 4' WROUGHT IRON FENCE
- XXX: DENOTES AS BUILT CONDITION

**CONSTRUCTION NOTES:**

- ALL CONCRETE FOR STRUCTURES SHALL BE 3000 PSI. UNLESS OTHERWISE NOTED.
- MINIMUM COVER FOR REINFORCING STEEL SHALL BE 2" UNLESS OTHERWISE NOTED.
- 95% COMPACTION REQUIRED FOR STRUCTURES AS PER ASTM D1557.
- REINFORCING SHALL CONFORM TO THE REQUIREMENTS OF ASTM A615 GRADE 60.
- RETAINING WALLS WILL BE REQUIRED WHERE THERE IS A GRADE DIFFERENCE OF 2 OR MORE FEET BETWEEN LOTS AND STREET. RETAINING WALL DESIGN AT TIME OF BUILDING PERMIT. ALL RETAINING ROCK WALLS OVER 4' TO BE BY DEVELOPER

**16.44.220 - PERMIT CLOSURE PROCEDURE:**

AFTER THE PERMITTEE COMPLETES THE GRADING UNDER THE PERMIT, THE PERMIT SHALL BE CLOSED. AS PART OF THE CLOSURE PROCEDURE, THE APPLICANT MUST SUBMIT THE FOLLOWING TO THE CITY:

- A STATEMENT FROM THE ENGINEER OF RECORD THAT STATES "THE GRADING OPERATION HAS BEEN SUBSTANTIALLY COMPLETED AND GENERALLY CONFORMS TO THE APPROVED SET OF PLANS". THE PERMITTEE SHALL CALL THIS PERMIT OFFICIAL TO ESTABLISH THE BEGINNING OF THE WARRANTY PERIOD AND TO NOTIFY THE PERMIT OFFICIAL THAT THE GSP HAS BEEN IMPLEMENTED.
- A COPY OF THE NOTICE OF TERMINATION FILED WITH THE STATE OR DATED CONSTRUCTION SITE NOTICE, IF APPLICABLE, IN ACCORDANCE WITH CHAPTER 16.

**16.44.090 - WARRANTY:**

ANY PERSON ISSUED A PERMIT SHALL AGREE WARRANT AND MAINTAIN THE AREA DESCRIBED IN THE PERMIT FOR A PERIOD OF TWO YEARS AFTER THE PERMIT IS CLOSED BY THE CITY PURSUANT TO SECTION 16.44.220, OR UNTIL A BUILDING PERMIT IS ISSUED FOR THE PURPOSE OF MAINTAINING A STABILIZED SITE IN ACCORDANCE WITH THE APPROVED GSP, WHICHEVER FIRST OCCURS (THE "WARRANTY OR WARRANTY PERIOD"). THE CITY MAY CONDUCT INSPECTIONS OF THE PERMITTED AREA THROUGHOUT THE WARRANTY PERIOD AND REQUIRE MAINTENANCE AND CORRECTION OF THE WORK BY THE PERMIT HOLDER. FAILURE OF THE PERMIT HOLDER TO CORRECT THE WORK SHALL CONSTITUTE A FAILURE TO COMPLY WITH THE PROVISIONS OF THIS CHAPTER.

**CONSTRUCTION ACTIVITY REQUIREMENTS:**

- NO ON-SITE PROCESSING OF MATERIAL FOR COMMERCIAL OR RETAIL SALES SHALL BE ALLOWED. ON-SITE PROCESSING OF MATERIALS TO BE USED FOR PREPARATION OR CONSTRUCTION OF IMPROVEMENTS WITHIN THE SITE COVERED BY THE GRADING PERMIT SHALL BE ALLOWED.
- WORK SHALL BE CONDUCTED IN MANNER THAT PRESERVES AND DOES NOT OBSTRUCT, IMPEDE OR INTERFERE WITH THE FLOW OF STORM WATER IN NATURAL DRAINAGE WAYS, UNIMPROVED CHANNELS OR WATERCOURSES, OR IMPROVED DITCHES, CHANNELS OR CANALS IN SUCH A MANNER AS TO CAUSE FLOODING WHERE IT WOULD NOT OTHERWISE OCCUR
- CONSTRUCTION EQUIPMENT AND FENCING SHALL BE KEPT OUT OF WATERCOURSES EXCEPT WHEN NECESSARY TO PERFORM WORK ON THE APPROVED PLANS. ADEQUATE BY PASSES MEASURES SHALL BE INSTALLED WHERE TEMPORARY DRAINAGE BLOCKAGES WILL OCCUR. WHERE WORK WITHIN A CHANNEL IS DESIGNATED ON APPROVED PLANS, PRECAUTIONS SHALL BE TAKEN TO STABILIZE THE WORK AREA DURING CONSTRUCTION TO MINIMIZE EROSION. THE CHANNEL, INCLUDING BED AND BANKS, SHALL ALWAYS BE RESTORED/REESTABLISHED IMMEDIATELY AFTER IN CHANNEL WORK IS COMPLETED.
- WHERE A DRAINAGE WAY WILL BE CROSSED BY CONSTRUCTION VEHICLES REGULARLY DURING CONSTRUCTION, A TEMPORARY CROSSING SHALL BE CONSTRUCTED.
- MATERIAL STOCKPILING SHALL NOT BE ALLOWED WHEN GRADING OPERATIONS ARE IDLE FOR MORE THAN SEVEN CONSECUTIVE CALENDAR DAYS. STOCKPILING SHALL BE LIMITED TO TEN FEET HIGH WHEN GRADING OPERATIONS ARE BEING CONDUCTED.
- TRAFFIC CONTROL PERMIT AND/OR FLAGMEN MAY BE REQUIRED AS PART OF THE GRADING PERMIT.
- ANY USE OF VIBRATORY EQUIPMENT SHALL BE APPROVED IN WRITING BY THE DIRECTOR IN ADVANCE OF SUCH USE

**GENERAL PARKS AND RECREATION NOTES:**

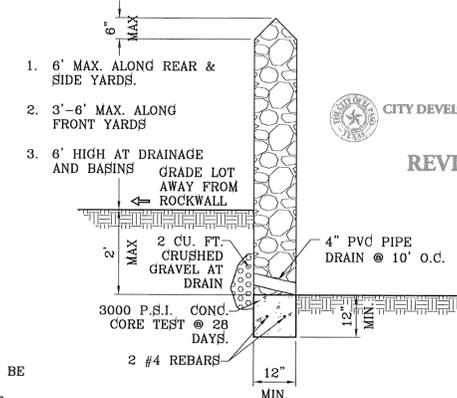
- PROJECT TO BE COORDINATED WITH TDLR TO INSURE COMPLIANCE WITH TAS REQUIREMENTS TO INCLUDE INSPECTION, AND CERTIFICATE OF SUBSTANTIAL COMPLETION; APPROVAL OF THE SUBDIVISION/PARK IMPROVEMENT PLANS IS SUBJECT TO APPLICANT PROVIDING PROOF OF THE PROJECT REGISTRATION - PLD #
- ALL PARK IMPROVEMENTS (SIDEWALKS, RAMPS, ETC.) AND PAVEMENT HIKE/BIKE TRAILS TO BE COMPLIANT WITH REQUIRED ACCESSIBILITY CRITERIA AS SET FORTH IN ADAAG & TAS STANDARDS AS MANDATED BY FEDERAL AND STATE GOVERNMENTS.
- NO SIGNS, FIRE HYDRANTS, LIGHTS, NDCBU'S ELECTRICAL, WATER BOXES, TELEPHONE PEDESTALS, NO OBSTRUCTIONS IN GENERAL, SHALL BE PLACED ALONG PROPOSED PARK SITE PERIMETER.
- WHERE POSSIBLE, UTILITY EASEMENTS SHALL NOT BE PLACED WITHIN PARK SITE.
- ALL UTILITIES SHALL BE AT MINIMUM FIVE FEET DEEP.
- WHERE POSSIBLE AND PREFERABLY, UTILITIES SHALL BE PLACED UNDERNEATH THE PROPOSED 7' SIDEWALK TO AVOID FUTURE CONFLICT WITH THE PROPOSED STREET TREE LINE OR DAMAGE TO THE UTILITIES.
- NO TRANSFORMERS, PEDESTAL, OR JUNCTION BOXES SHALL BE INSTALLED WITHIN PARK SITE.

**ROCKWALL NOTES:**

- STONE FOR ROCKWALLS SHALL BE AS NEARLY UNIFORM IN SECTIONS AS IS PRACTICABLE. THE STONE SHALL BE DENSE AND RESISTANT OF AIR AND WATER.
- MORTAR MUST BE TYPE "S" 1800 P.S.I. AS PER ASTM C270.
- MASONRY WALLS OVER SIX (6) FEET IN HEIGHT AND THOSE USED FOR EARTH RETENTION OVER TWO (2) FEET MUST BE DESIGNED AS STRUCTURAL WALLS.
- WALLS ADJACENT TO PONDING AREAS OR DRAINAGE DITCHES MAY BE CONSTRUCTED OF BRICK, CINDER BLOCK, OR STONE AND SHALL NOT BE LESS THAN SIX (6) FEET HIGH.
- ROCKWALL MORTAR JOINTS MUST NOT EXCEED TWO (2) INCHES.
- PROVIDE ONE (1) INCH EXPANSION JOINTS AT EVERY 100 FEET.
- ALL STONE SHALL BE THOROUGHLY SOAKED BEFORE BEING PLACED.
- NO RIVER ROCK SHALL BE ALLOWED.

**GENERAL PARK SITE NOTES:**

- WHERE POSSIBLE, UTILITY EASEMENTS SHALL NOT BE PLACED WITHIN PARK.
- ALL UTILITIES SHALL BE AT MINIMUM FIVE (5') DEEP
- WHERE POSSIBLE AND PREFERABLY, UTILITIES SHALL BE PLACED UNDERNEATH THE PROPOSED 7' SIDEWALK TO AVOID FUTURE CONFLICT WITH THE PROPOSED STREET TREE LINE OR DAMAGE TO THE UTILITIES.
- NO TRANSFORMERS, PEDESTAL, OR JUNCTION BOXES SHALL BE INSTALLED WITHIN PARK.



**ROCKWALL DETAIL**  
 SCALE: 1"=2'

ENGINEER'S SEAL

S C A L E  
 HORIZ: 1"=100'  
 VERT: ---  
 DATE: DEC. 2012  
 DESIGN BY: YC  
 INITIATED BY: RR  
 CHECKED BY: YC & FC  
 JOB NO.: 512-24

BENCHMARK  
 CITY MONUMENT AT THE CENTERLINE INTERSECTION OF COPPER CANYON DRIVE AND COPPER MINE LANE. ELEVATION 4007.42  
 REVISIONS  
 DATE  
 04/19/13  
 05/15/13  
 2ND SET OF CITY COMMENTS  
 CITY REDLINES AS PER 05/15/13 COMMENTS

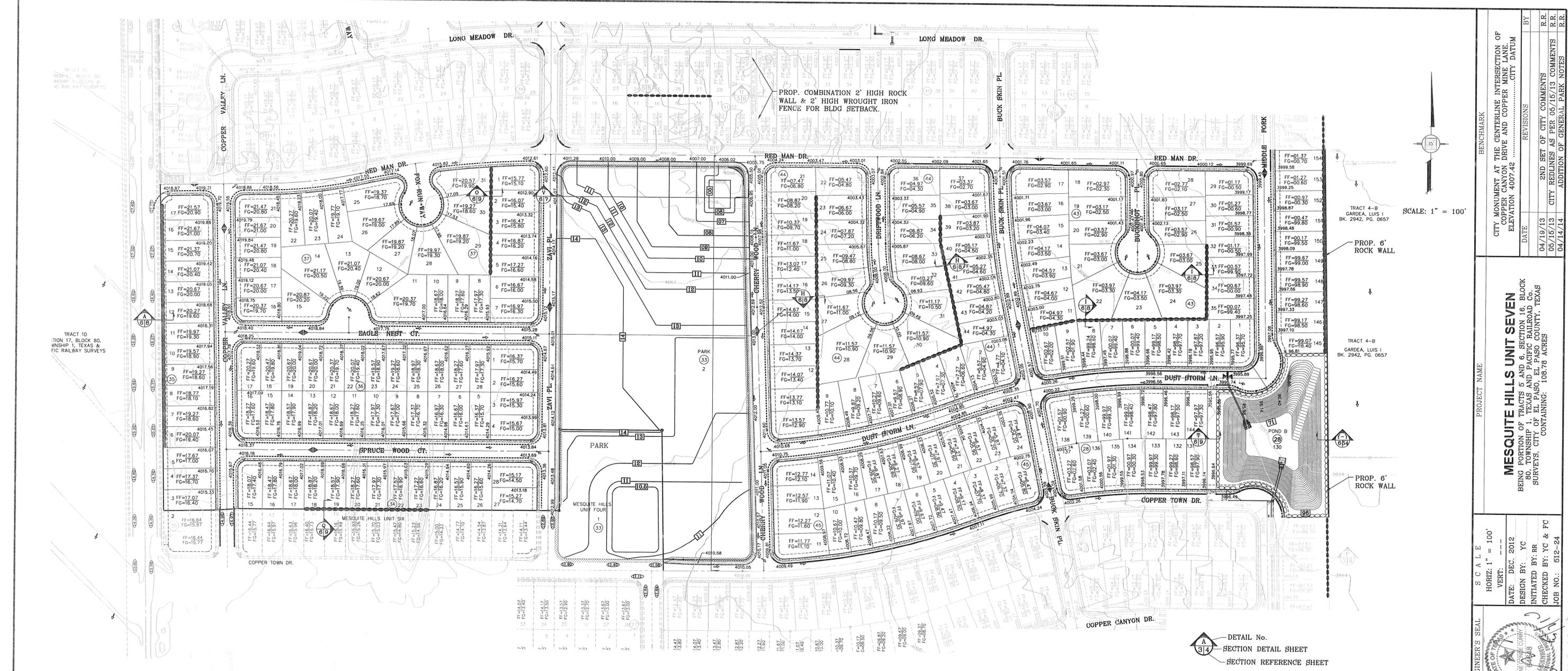
PROJECT NAME  
**MESQUITE HILLS UNIT SEVEN**  
 BEING PORTION OF TRACTS 5 AND 6, SECTION 16, BLOCK 80, TOWNSHIP 1, TEXAS AND PACIFIC RAILROAD CO. SURVEYS. CITY OF EL PASO, EL PASO COUNTY, TEXAS  
 CONTAINING: 108-78 ACRES

CONDE INC.  
 ENGINEERING / PLANNING  
 SURVEYING / GPS  
 6080 SURETY DR. STE. 100  
 EL PASO, TEXAS 79905  
 PHONE: (915) 592-0283  
 FAX: (915) 592-0286

SHEET TITLE  
**GRADING PLAN**

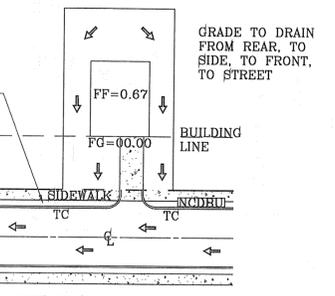
SHT 5 OF 80

FILE: S:\Subdivisions\MESQUITE\_HILLS\_7\DWG\GRD\_PL01.DWG PLOTTED: Thursday, May 01, 2014 4:44:15 PM



**GENERAL PARK NOTES:**

1. WHERE POSSIBLE, UTILITY EASEMENT SHALL NOT BE PLACED WITHIN PARK
2. IF POSSIBLE, UTILITIES TO BE AT A MINIMUM OF 6' DEEP
3. WHERE POSSIBLE, UTILITIES SHALL BE PLACED UNDERNEATH THE PROPOSED 7' WIDE SIDEWALK TO AVOID CONFLICT WITH PROPOSED FIRE LINE OR DAMAGE TO UTILITIES
4. NO TRANSFORMER, PEDESTAL, OR JUNCTION BOXES SHALL BE INSTALLED WITHIN PARK



**TYPICAL LOT GRADING**  
SCALE: 1"=40'

**GENERAL NOTES:**

1. IMPROVEMENT WITHIN CITY R.O.W. SHALL COMPLY WITH TITLE 19-SUBDIVISION ORDINANCE-"SUBDIVISION IMPROVEMENT DESIGN STANDARDS".
2. CONTRACTOR SHALL PROVIDE TEMPORARY MEASURES FOR THE MANAGEMENT OF STORM WATER RUNOFF ENTERING, EXITING AND ON SITE DURING THE COURSE OF THE CONSTRUCTION. TEMPORARY BERMS, DESILTING BASIN, CHECK DAMS, PIPING ETC. SHALL BE PROVIDED AS NECESSARY.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION AND NOTIFICATION WITH ALL APPURTENANT UTILITY COMPANIES WHOSE LINES ARE WITHIN THE CONSTRUCTION CONTRACT AREA. THE CONTRACTOR SHALL NOTIFY UTILITY COMPANIES 48 HOURS PRIOR TO ANY CONSTRUCTION ON SITE. THE CONTRACTOR WILL BE RESPONSIBLE PHYSICALLY AND FINANCIALLY FOR ANY DISRUPTION TO SERVICE EITHER ON SITE OR OFF SITE DUE TO BREAKAGE OF UTILITY LINES.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL DATA SHOWN ON THE PLANS. IF DISCREPANCIES ARE FOUND THE CONTRACTOR SHALL NOTIFY THE OWNER OR ENGINEER IMMEDIATELY SO THAT PROPER CORRECTIONS CAN BE MADE.
5. EQUIPMENT OF A CONDITION AND DESIGN SUFFICIENT TO ENSURE A THOROUGH AND WORKMANLIKE PROSECUTION OF THE PROJECT SHALL BE USED AT ALL TIMES.
6. ALL ELEVATIONS ARE TO CITY DATUM UNLESS OTHERWISE NOTED.
7. ALL WASTE MATERIALS INCLUDING EXCAVATION, CURBING, PAVEMENT, ETC. SHALL BE DISPOSED OF AS DESIGNATED BY THE OWNER OR HIS REPRESENTATIVE.
8. THE CONTRACTOR SHALL NOTIFY THE OWNER, OR HIS REPRESENTATIVE, IN SUFFICIENT TIME IN ADVANCE OF DELIVERY OF MATERIALS TO BE SUPPLIED BY HIM UNDER THIS PROJECT, IN ORDER THAT THE OWNER MAY ARRANGE, IF DESIRED, INSPECTION AND TESTING FOR SAME.
9. SAFE AND REASONABLE ACCESS FOR THIS SITE MUST BE MAINTAINED AT ALL TIMES DURING THE LIFE OF THE PROJECT.
10. ANY CAVITY REMAINING OPEN DURING NONWORKING HOURS MUST BE GUARDED BY FLASHER TYPE BARRICADES WITH STRINGERS PLACED BETWEEN THE TOPS OF THE BARRICADES.
11. DEVELOPER SHALL COMPLY WITH SECTION 13.08.170 "EXCESSIVE PAVING CUTS" AS PER EL PASO MUNICIPAL CODE.

**GENERAL EARTHWORK NOTES:**

1. ALL GRADING SHALL CONFORM TO THE CITY OF EL PASO GRADING ORDINANCE SECTION 10.44.
2. THE CONTRACTOR SHALL CARRY ON HIS WORK WITH SPECIAL CARE AT ALL TIMES TO MAINTAIN THE NATURAL SURROUNDINGS AND EXISTING STRUCTURES IN AN UNDAMAGED CONDITION.
3. NATURAL SUBGRADES TO SUPPORT STRUCTURAL FILL OR PAVEMENTS SHOULD BE STRIPPED OF ALL VEGETATION OR ORGANIC TOPSOIL. THE EXPOSED SUBGRADE SHOULD BE SCARIFIED JUST PRIOR TO FILL PLACEMENT TO A MINIMUM DEPTH OF 8 INCHES AND RECOMPACTED TO A MINIMUM OF 96% OF MAXIMUM DENSITY AS PER ASTM D-1557. ALL BACKFILL MATERIAL TO BE PLACED IN HORIZONTAL LAYERS NOT TO EXCEED EIGHT (8) INCH LIFTS AND COMPACTED AS BEFORE.
4. TEMPORARY DUST AND EROSION CONTROL MEASURES SHALL BE PROVIDED FOR AT ALL TIMES. SEE SHEETS 13-15.
5. ANY EROSION OF THE GRADED SITE DURING THE COURSE OF THE PROJECT SHALL BE CORRECTED PRIOR TO FINALIZATION OF THE PROJECT AT NO COST TO THE OWNER.
6. ALL SLOPES AND SWALES WITHIN LOTS SHALL BE MAINTAINED BY LOT OWNER.

**CONSTRUCTION NOTES:**

1. ALL CONCRETE FOR STRUCTURES SHALL BE 3000 PSI. UNLESS OTHERWISE NOTED.
2. MINIMUM COVER FOR REINFORCING STEEL SHALL BE 2" UNLESS OTHERWISE NOTED.
3. 95% COMPACTION REQUIRED FOR STRUCTURES AS PER ASTM D1557.
4. REINFORCING SHALL CONFORM TO THE REQUIREMENTS OF ASTM A615 GRADE 60.
5. RETAINING WALLS WILL BE REQUIRED WHERE THERE IS A GRADE DIFFERENCE OF 2 OR MORE FEET BETWEEN LOTS AND STREET. RETAINING WALL DESIGN AT TIME OF BUILDING PERMIT. RETAINING WALLS 4' OR GREATER TO BE BY DEVELOPER.

**LEGEND**

- FF=0.67  
FG=00.00
- PROPOSED FINISH FLOOR
- PROPOSED FINISH GROUND
- HIGH POINT
- LOW POINT
- EXISTING CONTOUR
- EXISTING SPOT ELEVATION
- PROPOSED CONTOUR
- PROPOSED ROCK WALL
- PROPOSED RETAINING WALL
- DENOTES AS BUILT CONDITION ONLY

SEE SHEET 55-5B FOR DRAINAGE STRUCTURES #1-#4

**FLOOD ZONE:**  
HEREON DESCRIBED TRACT LIES IN FLOOD ZONE C. COMMUNITY PANEL NO. 480214 0009D & PANEL NO. 480214 0015D SEPTEMBER 3, 1997

**NOTE:**  
ALL RETAINING WALLS EQUAL TO AND/OR HIGHER THAN 4' AND ALL WHEELCHAIR RAMPS TO BE BY DEVELOPER



BENCHMARK	CITY MONUMENT AT THE CENTERLINE INTERSECTION OF COPPER CANYON DRIVE AND COPPER MINE LANE. ELEVATION 4007.42	BY	
REVISIONS		DATE	
2ND SET OF CITY COMMENTS		04/19/13	R.R.
CITY REDLINES AS PER 05/15/13 COMMENTS		05/15/13	R.R.
ADDITION OF GENERAL PARK NOTES		04/14/14	R.R.

**PROJECT NAME**  
MESQUITE HILLS UNIT SEVEN  
BEING PORTION OF TRACTS 5 AND 6, SECTION 16, BLOCK 80, TOWNSHIP 1, TEXAS AND PACIFIC RAILROAD CO. SURVEYS, CITY OF EL PASO, EL PASO COUNTY, TEXAS CONTAINING: 108.78 ACRES

**SCALE**  
HORIZ: 1" = 100'  
VERT: 1" = 100'

DATE: DEC. 2012  
DESIGN BY: YC  
INITIATED BY: RR  
CHECKED BY: YC & FC  
JOB NO.: 512-24



**CONDE INC.**  
ENGINEERING / PLANNING  
SURVEYING / GPS  
6080 SURETY DR. STE 100  
EL PASO, TEXAS 79905  
PHONE: (915) 592-0263  
FAX: (915) 692-0286

**CONDE INC.**  
REGISTRATION NO. FC-2321

**GRADING PLAN**

FILE: S:\Subdivisions\MESQUITE HILLS 7.DWG.GDPL PLOTTED Thursday, May 01, 2014 4:44:26 PM

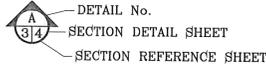
**GENERAL PARK NOTES:**

1. WHERE POSSIBLE, UTILITY EASEMENT SHALL NOT BE PLACED WITHIN PARK
2. IF POSSIBLE, UTILITIES TO BE AT A MINIMUM OF 5' DEEP
3. WHERE POSSIBLE, UTILITIES SHALL BE PLACED UNDERNEATH THE PROPOSED 7' WIDE SIDEWALK TO AVOID CONFLICT WITH PROPOSED FIRE LINE OR DAMAGE TO UTILITIES
4. NO TRANSFORMER, PEDESTAL, OR JUNCTION BOXES SHALL BE INSTALLED WITHIN PARK

SEE SHEET 55-58 FOR DRAINAGE STRUCTURES #1-#4

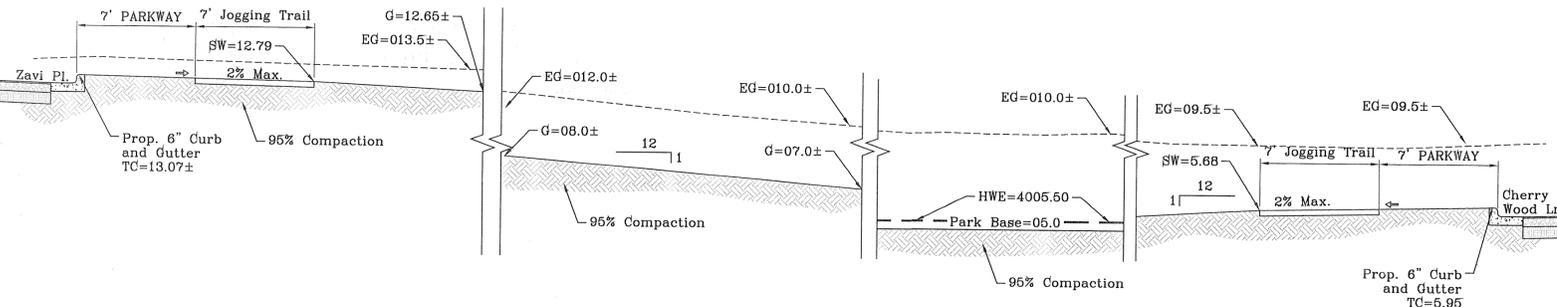
**FLOOD ZONE:**  
HERON DESCRIBED TRACT LIES IN FLOOD ZONE C, COMMUNITY PANEL NO. 480214 0009D & PANEL NO. 480214 0015D SEPTEMBER 3, 1997

**NOTE:**  
ALL RETAINING WALLS EQUAL TO AND/OR HIGHER THAN 4' AND ALL WHEELCHAIR RAMPS TO BE BY DEVELOPER

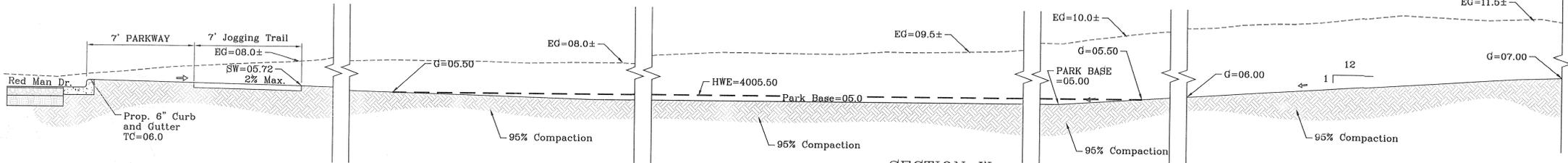


**LEGEND**

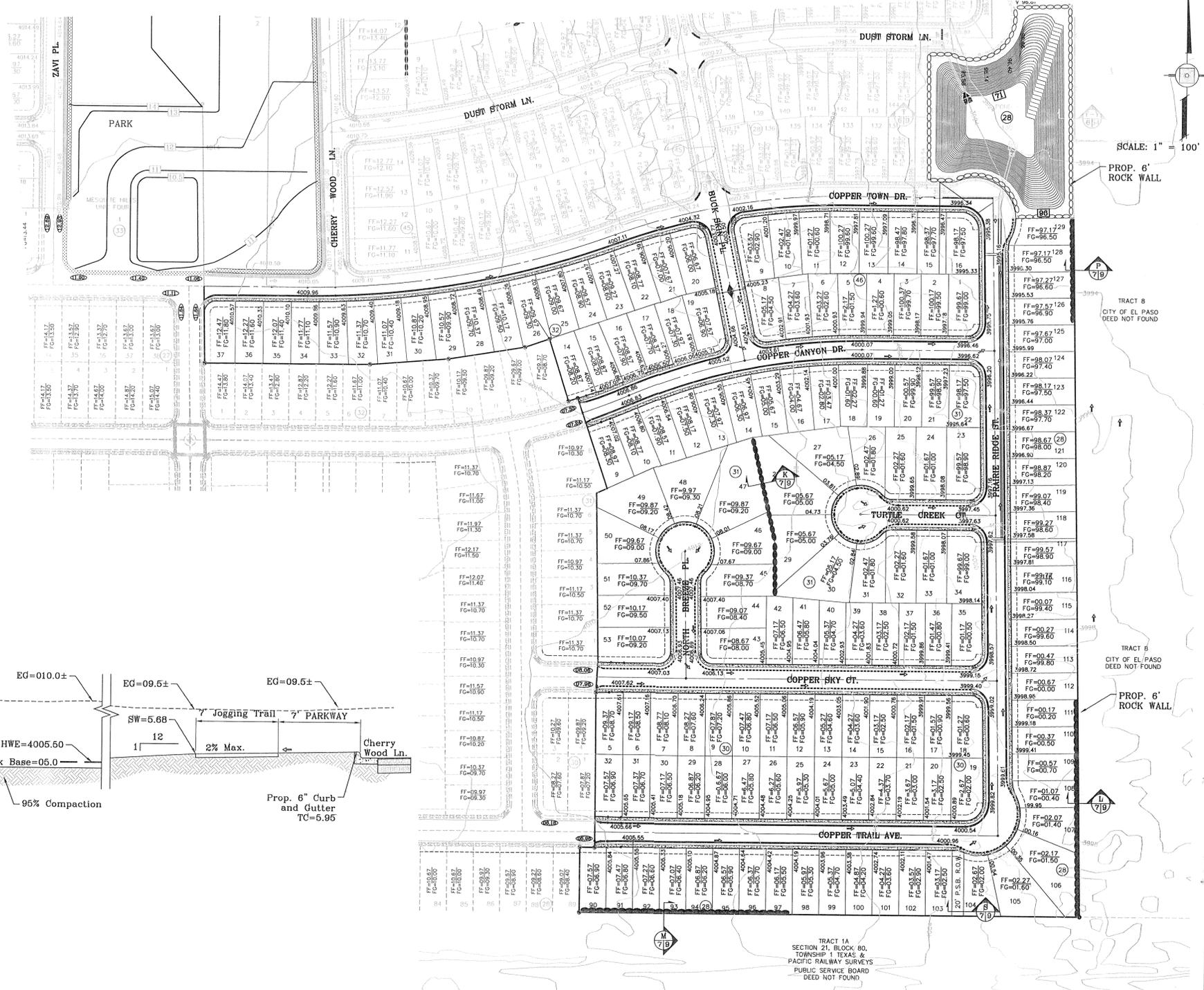
FF=0.67	PROPOSED FINISH FLOOR
FG=00.00	PROPOSED FINISH GROUND
	HIGH POINT
	LOW POINT
	EXISTING CONTOUR
	EXISTING SPOT ELEVATION
	PROPOSED CONTOUR
	PROPOSED ROCK WALL
	PROPOSED RETAINING WALL
	DENOTES AS BUILT CONDITION ONLY



**SECTION V**  
SCALE: 1" = 5'



**SECTION W**  
SCALE: 1" = 4'



SCALE: 1" = 100'

BENCHMARK

CITY MONUMENT AT THE CENTERLINE INTERSECTION OF COPPER CANYON DRIVE AND COPPER CANYON CITY DATUM ELEVATION 4007.42

DATE	REVISIONS	BY
04/19/13	2ND SET OF CITY COMMENTS	R.R.

**MESQUITE HILLS UNIT SEVEN**  
BEING PORTION OF TRACTS 5 AND 6, SECTION 16, BLOCK 80, TOWNSHIP 1, TEXAS AND PACIFIC RAILROAD SURVEYS, CITY OF EL PASO, EL PASO COUNTY, TEXAS CONTAINING: 108.78 ACRES

PROJECT NAME

SCALE

HORIZ: 1" = 100'

VERT: ---

DATE: DEC. 2012

DESIGNED BY: YC

INITIATED BY: BR

CHECKED BY: YC & FC

JOB NO.: 512-24

ENGINEER'S SEAL

**CONDE INC.**  
ENGINEERING / PLANNING  
SURVEYING / GPS  
6080 SURETY DR. SITE 100  
EL PASO, TEXAS 79905  
PHONE: (915) 592-0283  
FAX: (915) 592-0286

**CONDE INC.**  
REGISTRATION NO. FC-221

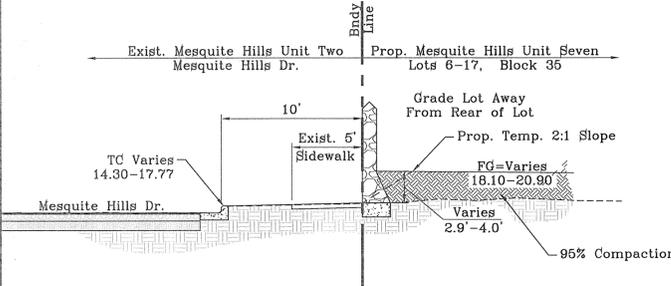
**CITY DEVELOPMENT DEPARTMENT**  
**REVIEWED**

**GRADING PLAN**

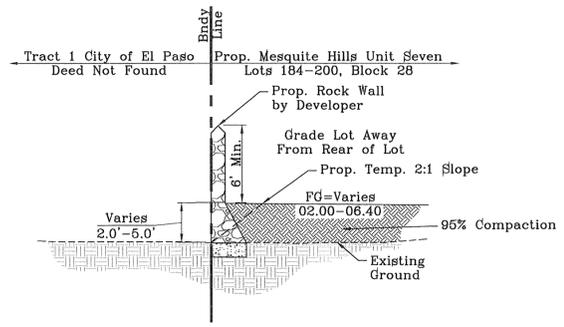
SHT 7 OF 80

FILE: S:\\_Subdivisions\MESQUITE HILLS 7.DWG-SEC. PLOTTED Thursday, May 01, 2014 4:44:46 PM

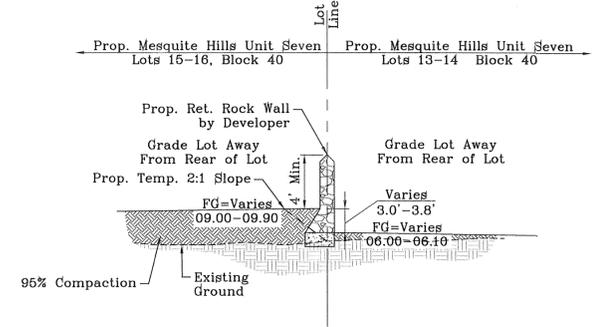
NOTE:  
Retaining Rock Walls 4' or  
Greater to be by Developer



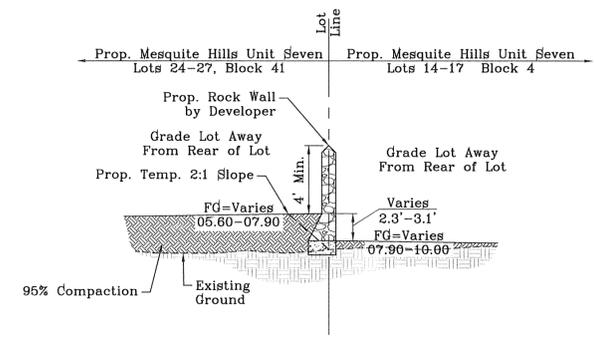
SECTION A  
SCALE: 1" = 6'



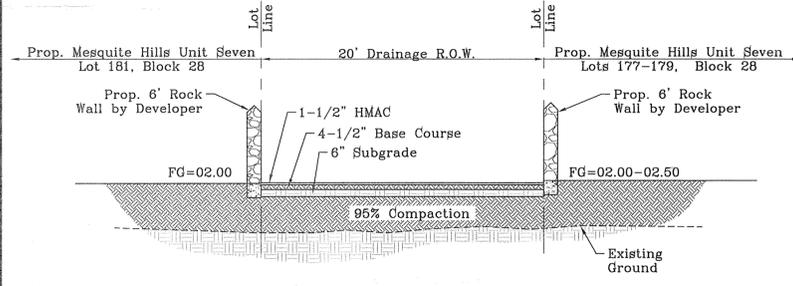
SECTION B  
SCALE: 1" = 6'



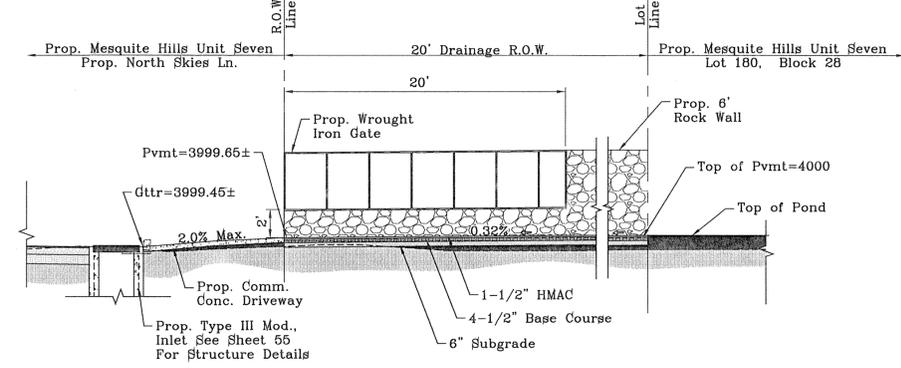
SECTION C  
SCALE: 1" = 6'



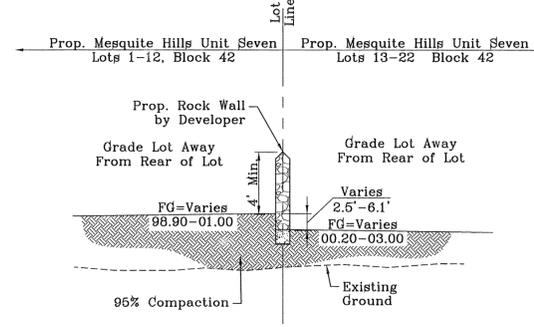
SECTION D  
SCALE: 1" = 6'



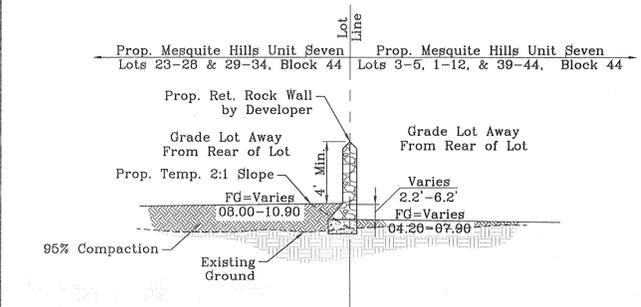
SECTION E  
SCALE: 1" = 6'



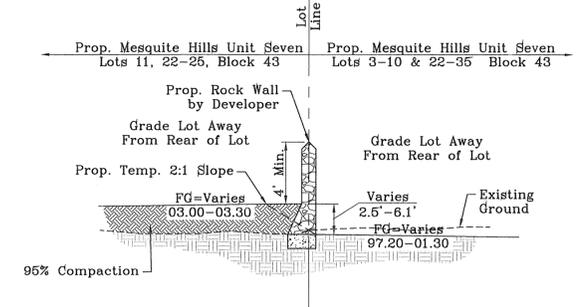
SECTION F  
SCALE: 1" = 6'



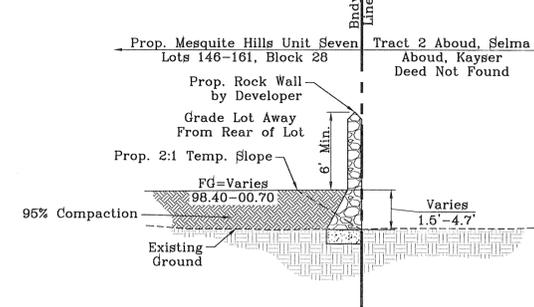
SECTION G  
SCALE: 1" = 6'



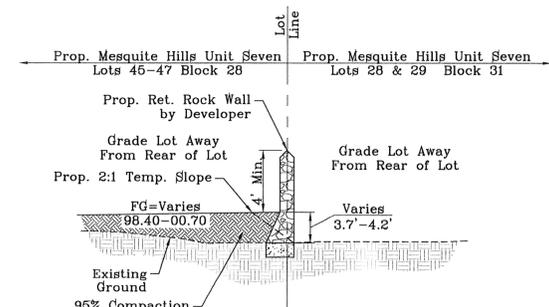
SECTION H  
SCALE: 1" = 6'



SECTION I  
SCALE: 1" = 6'



SECTION J  
SCALE: 1" = 6'



SECTION K  
SCALE: 1" = 6'

NOTE:  
ALL RETAINING WALLS EQUAL TO 4' OR  
MORE ARE TO BE BY DEVELOPER

BENCHMARK	
CITY MONUMENT AT THE CENTERLINE INTERSECTION OF COPPER CANYON DRIVE AND COPPER MINE LANE. ELEVATION 4007.42	.....CITY DATUM
DATE	04/19/13
BY	2ND SET OF CITY COMMENTS
R.R.	

PROJECT NAME  
**MESQUITE HILLS UNIT SEVEN**  
BEING PORTION OF TRACTS 5 AND 6, SECTION 16, BLOCK 80, TOWNSHIP 1, TEXAS AND PACIFIC RAILROAD CO. SURVEYS, CITY OF EL PASO, EL PASO COUNTY, TEXAS CONTAINING: 108.76 ACRES

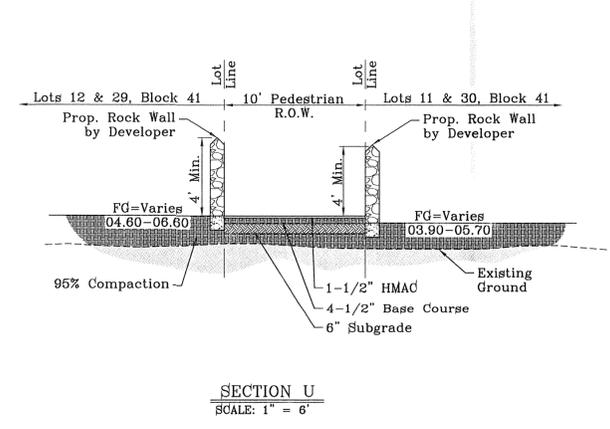
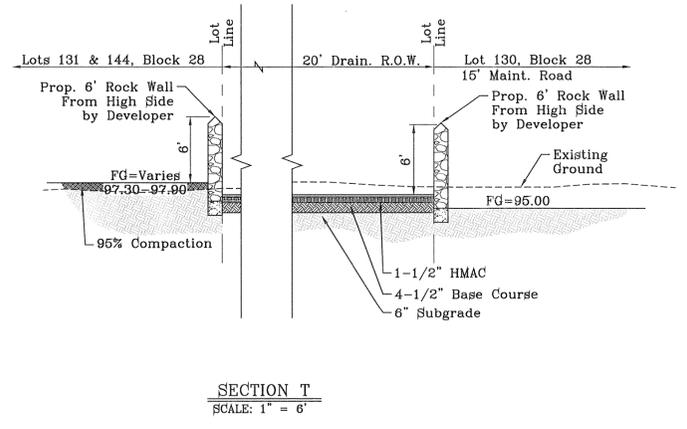
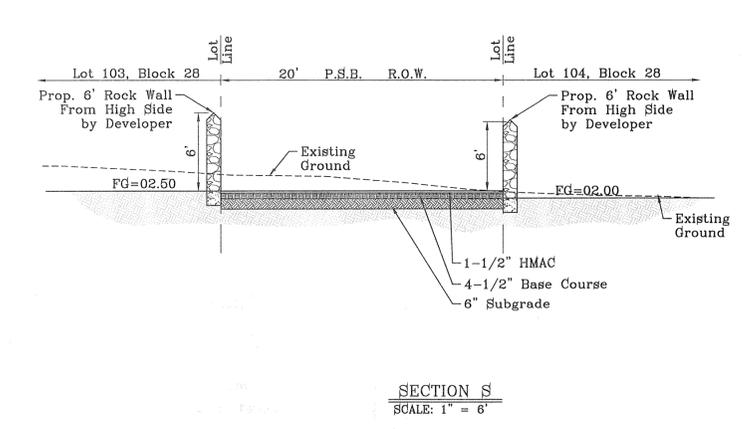
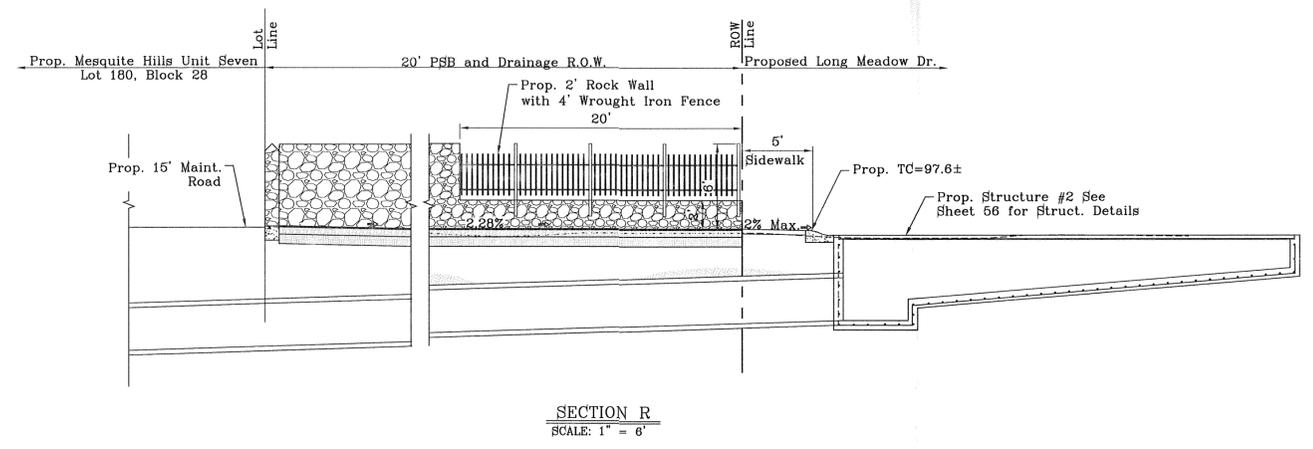
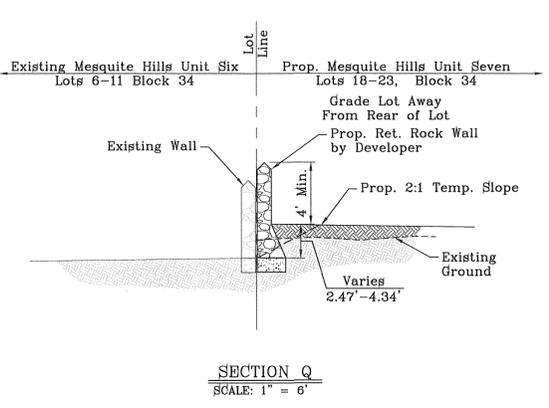
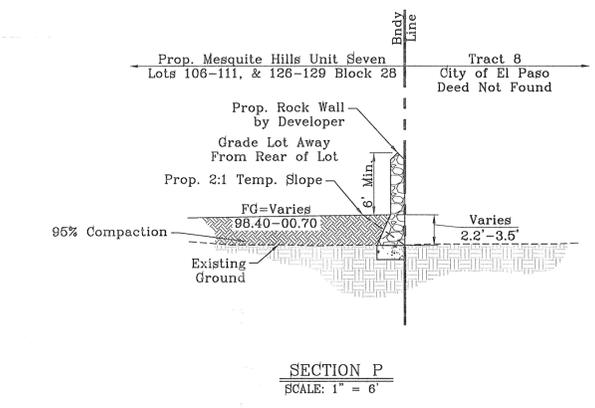
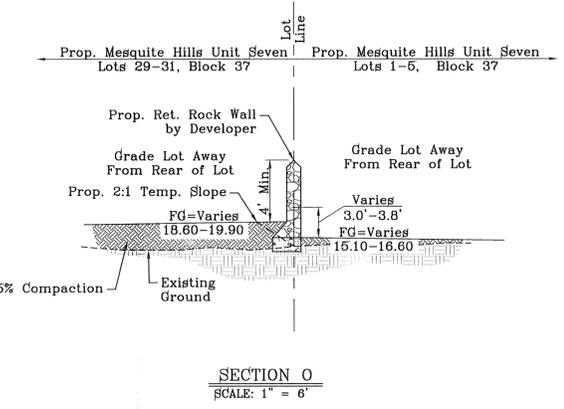
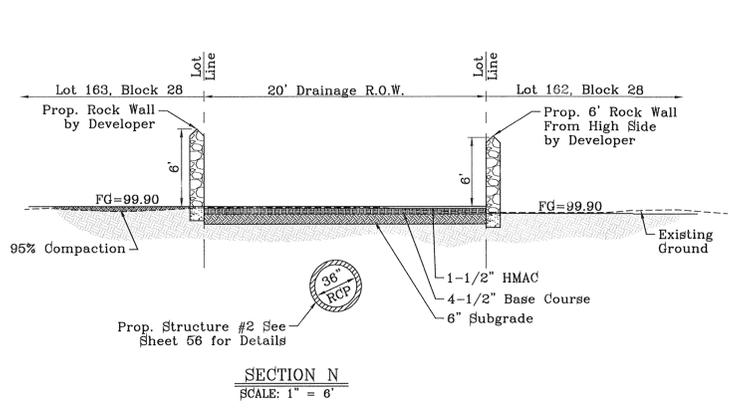
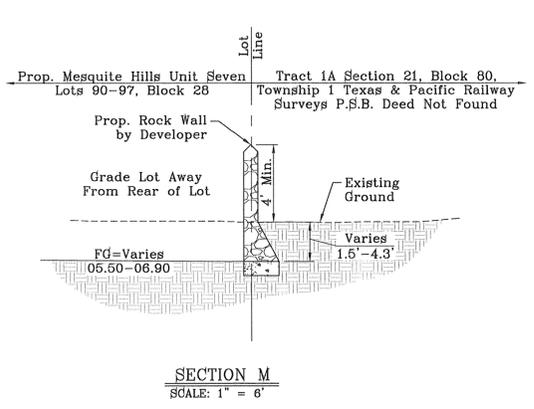
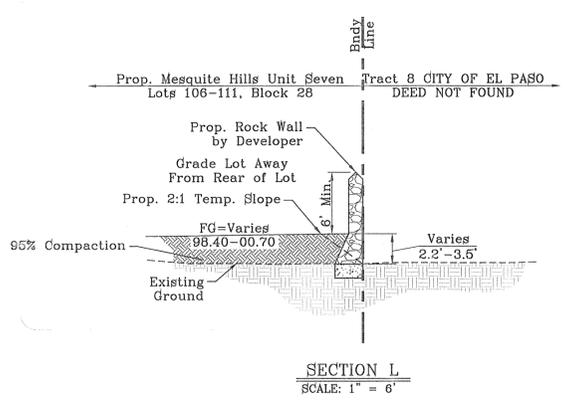
SCALE  
HORIZ: #####  
VERT: ---  
DATE: DEC. 2012  
DESIGN BY: YC  
INITIATED BY: RR  
CHECKED BY: YC & FC  
JOB NO.: 512-24



**CONDE INC.**  
ENGINEERING / PLANNING  
SURVEYING / GPS  
6080 SURVEY DR. STE. 100  
EL PASO, TEXAS 79905  
PHONE: (915) 592-0285  
FAX: (915) 592-0286



FILE S:\Subdivisions\MESQUITE HILLS 7\DWG-SEC PLOTTED Thursday, Nov 01, 2014 4:44:50 PM



**NOTE:**  
ALL RETAINING WALLS EQUAL TO 4' OR MORE ARE TO BE BY DEVELOPER

CITY DEVELOPMENT DEPARTMENT

REVIEWED

MESQUITE HILLS UNIT SEVEN

BENCHMARK	CITY MONUMENT AT THE CENTERLINE INTERSECTION OF COPPER CANYON DRIVE AND COPPER MINE LANE.	BY	
DATE	ELEVATION 4007.42	REVISIONS	
DATE	04/19/13	2ND SET OF CITY COMMENTS	R.R.

**PROJECT NAME**  
MESQUITE HILLS UNIT SEVEN  
BEING PORTION OF TRACTS 5 AND 6, SECTION 06, BLOCK 28, TOWNSHIP 1 TEXAS & PACIFIC RAILWAY SURVEYS, CITY OF EL PASO, EL PASO COUNTY, TEXAS CONTAINING: 108.78 ACRES

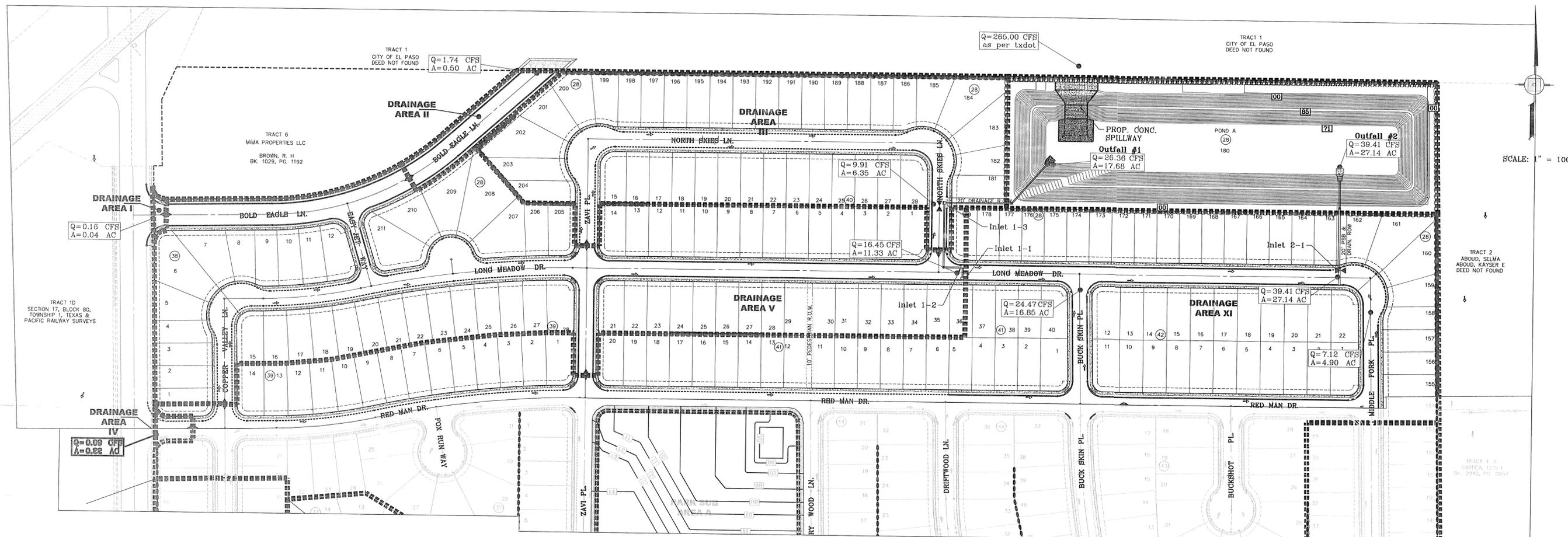
**SCALE**  
HORIZ: #####  
VERT: ---  
DATE: DEC. 2012  
DESIGN BY: YC  
INITIATED BY: RR  
CHECKED BY: YC & FC  
JOB NO.: 512-24



**CONDE INC.**  
ENGINEERING / PLANNING  
SURVEYING / GPS  
6080 SURETY DR. STE 100  
EL PASO, TEXAS 79905  
PHONE: (915) 592-0283  
FAX: (915) 592-0286



SHEET TITLE  
**GRADING SECTIONS**



SCALE: 1" = 100'

INLET DATA						
INLET No.	INLET TYPE	No. GRATES	Qd <sub>60</sub> yr. cfs	Qd <sub>100</sub> yr. cfs	Qc cfs	
1-1	III	2	8.22	9.42	15.44	
1-2	III Mod.	2	8.22	9.42	15.44	
1-3	III Mod.	3	9.91	11.24	23.16	
2-1	II MOD.	10	39.41	45.11	77.20	
3-1	II-MOD.	9	13.42	15.36	69.48	
4-1	II-MOD.	10	43.42	45.95	77.20	
4-2	II-MOD.	10	47.96	49.87	77.20	
4-3	III-MOD.	7	32.10	38.02	86.56	

CLOGGING FACTOR = 2/3

**LEGEND**

- Q RUN-OFF QUANTITY (CUBIC Ft./Sec)
- A WATERSHED AREA (ACRES)
- High Point Symbol HIGH POINT
- Low Point Symbol LOW POINT
- Arrow Symbol DRAINAGE FLOW
- Dashed Line Symbol PROPOSED DRAINAGE AREA

**NOTES:**

- ALL RETAINING WALLS EQUAL TO AND/OR HIGHER THAN 4' AND ALL WHEELCHAIR RAMP TO BE BY DEVELOPER
- ALL VOLUMETRIC FLOW RATES (Q) ARE PER 50 YEAR STORM COMPUTATIONS.

**FLOOD ZONE:**  
HEREON DESCRIBED TRACT LIES IN FLOOD ZONE C. COMMUNITY PANEL NO. 480214 0009D & PANEL NO. 480214 0015D SEPTEMBER 3, 1997

SEE SHEET 55-58 FOR DRAINAGE STRUCTURES #1-#4

ON SITE PARK PONDING CALCULATIONS							
PARK SUB AREA	LOT NO.	BLOCK NO.	PARK AREA (AC)	REQUIRED CAPACITY (ac. ft.)	AVAILABLE CAPACITY (ac. ft.)	HIGH WATER SURFACE ELEV. (ft)	FREE BOARD (ft)
A	2	33	3.23	0.43	0.50	4005.93	0.07'
B	2	33	5.14	0.69	0.69	4010.98	0.02'
PARK SUB AREA - A				PARK SUB AREA - B			
$Q = \frac{ARC}{12} = \frac{3.23(4)(0.4)}{12} = 0.43$				$Q = \frac{ARC}{12} = \frac{5.14(4)(0.4)}{12} = 0.69$			
ELEVATION FT	AREA SQ-FT	CONIC VOL. AC-FT	VOLUME CAP. AC-FT	ELEVATION FT	AREA SQ-FT	CONIC VOL. AC-FT	VOLUME CAP. AC-FT
4005.00	52360	0.50	0.50	4011.00	66850	0.69	0.69
4005.50	36020	0.00	0.00	4010.50	49450	0.00	0.00

TOP SOIL SHALL COMPLY WITH CITY OF EL PASO PARKS & RECREATION DEPARTMENT PARK DESIGN GUIDELINES AND STANDARDS, SODDING SPECIFICATION 1.02C.

SEE LANDSCAPE AND IRRIGATION PLANS FOR DETAILS

STREET CARRYING CAPACITY-FLAT SECTION-50 YR STORM					
STREET NAME	STATION	Q <sub>o</sub> CFS	Q <sub>o</sub> CFS @ 5"	Velocity	Depth
LONG MEADOW DR.	31+50	39.41	51.11	3.76	0.39'
BUCKSKIN PL.	12+50	24.47	51.11	3.03	0.32'

BASIN CALCS.					
BASIN No.	REQUIRED CAPACITY (ac. ft.)	AVAILABLE CAPACITY (ac. ft.)	PEAK INFLOW (cfs)	HIGH WATER SURFACE ELEV. (ft)	FREE BOARD (ft)
A	63.79	68.47	340.19	3994.80	1.20'
B	14.60	16.05	124.40	3992.97	2.03'

DRAINAGE CALCULATION TABLE							
DRAINAGE AREA	AREA (acres)	T <sub>c</sub> (min)	C	I <sub>100</sub> (in/hr)	Q <sub>100</sub> (cfs)	I <sub>100</sub> (in/hr)	Q <sub>100</sub> (cfs)
I	0.04	5	0.95	4.23	0.16	4.74	0.18
II	0.50	10	0.95	3.67	1.74	4.13	1.96
III	6.35	26	0.60	2.60	9.91	2.95	11.24
IV	0.09	5	0.95	4.23	0.36	4.74	0.41
V	11.33	30	0.60	2.42	16.45	2.77	18.83
VI	4.41	25	0.60	2.64	6.99	3.00	7.94
VII	6.97	30	0.60	2.42	10.12	2.77	11.58
VIII	9.24	30	0.60	2.42	13.42	2.77	15.35
IX	7.75	29	0.60	2.46	11.44	2.80	13.02
X	21.15	30	0.60	2.42	30.71	2.77	35.15
XI	27.14	30	0.60	2.42	39.41	2.77	45.11
POND A	5.33	SEE POND SHEET FOR CALCS.					
POND B	1.61	SEE POND SHEET FOR CALCS.					

FILE SA Subdivisions\MESQUITE HILLS 7\DWG\GDRP\_PL\DTED Thurs 05/07/01 2:04:44:58 PM

BENCHMARK	CITY MONUMENT AT THE CENTERLINE INTERSECTION OF COPPER CANYON DRIVE AND COPPER MINE LANE ELEVATION 4007.42
DATE	04/19/13
REVISIONS	
BY	
R.R.	

**PROJECT NAME**  
MESQUITE HILLS UNIT SEVEN  
BEING PORTION OF TRACTS 5 AND 6, SECTION 16, BLOCK 80, TOWNSHIP 1, TEXAS AND PACIFIC RAILROAD CO. SURVEYS, CITY OF EL PASO, EL PASO COUNTY, TEXAS CONTAINING: 108.78 ACRES

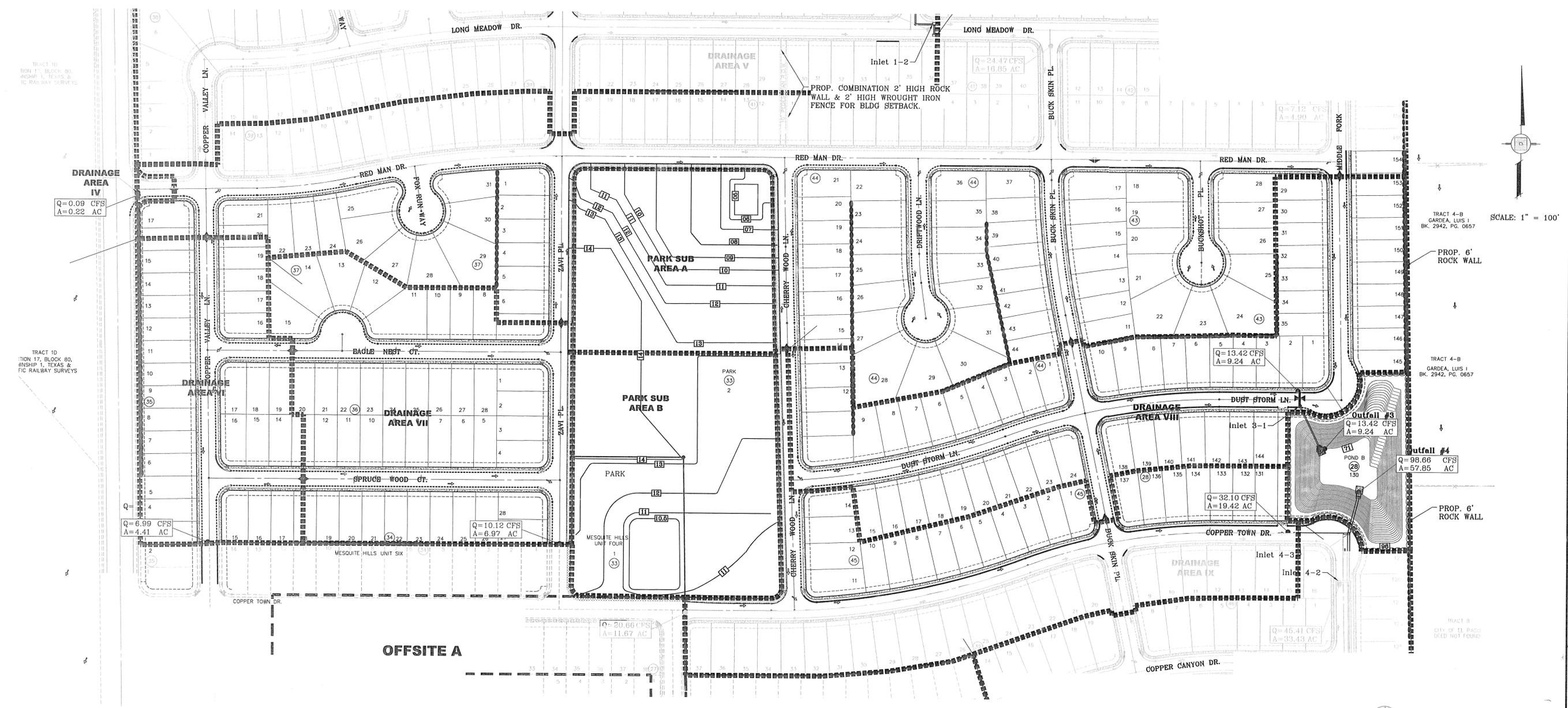
**SCALE**  
HORIZ: 1" = 100'  
VERT: 1" = 100'

DATE: DEC. 2012  
DESIGN BY: YC  
INITIATED BY: RR  
CHECKED BY: YC & FC  
JOB NO.: 512-24

**CONDE INC.**  
ENGINEERING / PLANNING  
SURVEYING / GFS  
6080 SURETY DR. STE 100  
EL PASO, TEXAS 79905  
PHONE: (915) 592-0283  
FAX: (915) 592-0286

**CONDE INC.**  
REGISTRATION No. F-221

FILE: S:\Subdivisions\MESQUITE HILLS 7.DWG.GBPL PLOTTED Thursday, May 01, 2014 4:45:08 PM



SCALE: 1" = 100'

BENCHMARK

CITY MONUMENT AT THE CENTERLINE INTERSECTION OF COPPER CANYON DRIVE AND COPPER MINE LANE. ELEVATION 4007.42 ..... CITY DATUM

DATE	REVISIONS	BY	R.R.
04/19/13	END SET OF CITY COMMENTS		

PROJECT NAME

**MESQUITE HILLS UNIT SEVEN**

BEING PORTION OF TRACTS 5 AND 6, SECTION 16, BLOCK 80, TOWNSHIP 1, TEXAS AND PACIFIC RAILROAD CO. SURVEYS, CITY OF EL PASO, EL PASO COUNTY, TEXAS CONTAINING: 108.76 ACRES

SCALE

HORIZ: 1" = 100'

VERT: ---

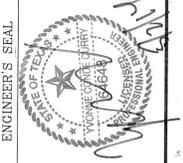
DATE: DEC. 2012

DESIGN BY: YC

INITIATED BY: RR

CHECKED BY: YC & FC

JOB NO.: 612-24



CITY DEVELOPMENT DEPARTMENT

REVIEWED

**LEGEND**

Q	RUN-OFF QUANTITY (CUBIC Ft./Sec)
A	WATERSHED AREA (ACRES)
▲	HIGH POINT
▼	LOW POINT
→	DRAINAGE FLOW
---	PROPOSED DRAINAGE AREA

SEE SHEET 55-58 FOR DRAINAGE STRUCTURES #1-#4

**FLOOD ZONE:**  
HEREON DESCRIBED TRACT LIES IN FLOOD ZONE C. COMMUNITY PANEL NO. 480214 0009D & PANEL NO. 480214 0015D SEPTEMBER 3, 1997

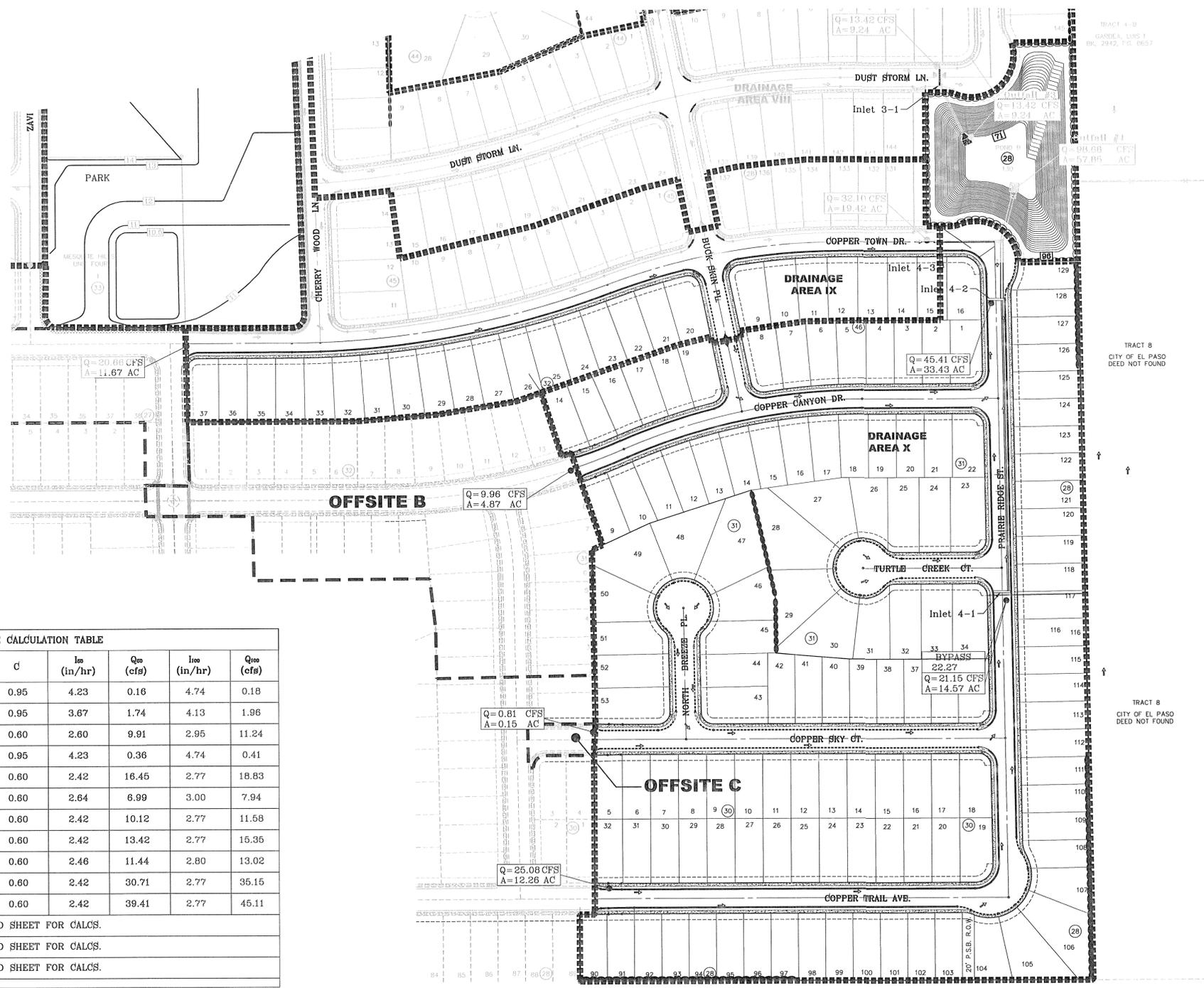
**NOTES:**

- ALL RETAINING WALLS EQUAL TO AND/OR HIGHER THAN 4" AND ALL WHEELCHAIR RAMPS TO BE BY DEVELOPER
- ALL VOLUMETRIC FLOW RATES (Q) ARE PER 50 YEAR STORM COMPUTATIONS.

**DRAINAGE CALCULATION TABLE**

DRAINAGE AREA	AREA (acres)	Tc (min)	C	I <sub>50</sub> (in/hr)	Q <sub>50</sub> (cfs)	I <sub>100</sub> (in/hr)	Q <sub>100</sub> (cfs)
I	0.04	5	0.95	4.23	0.16	4.74	0.18
II	0.50	10	0.95	3.67	1.74	4.13	1.96
III	6.35	26	0.80	2.60	9.91	2.95	11.24
IV	0.09	5	0.95	4.23	0.36	4.74	0.41
V	11.33	30	0.60	2.42	16.45	2.77	18.83
VI	4.41	25	0.60	2.64	6.99	3.00	7.94
VII	6.97	30	0.60	2.42	10.12	2.77	11.58
VIII	9.24	30	0.60	2.42	13.42	2.77	16.35
IX	7.75	29	0.60	2.46	11.44	2.80	13.02
X	21.15	30	0.60	2.42	30.71	2.77	35.15
XI	27.14	30	0.60	2.42	39.41	2.77	45.11
POND A	5.33	SEE POND SHEET FOR CALCS.					
POND B	1.61	SEE POND SHEET FOR CALCS.					
PARK	6.87	SEE POND SHEET FOR CALCS.					

FILE: S:\Subdivisions\MESQUITE HILLS 7\DWG\DWG\_PLOTTED\_Thursday, May 01, 2014 4:45:15 PM



DRAINAGE CALCULATION TABLE							
DRAINAGE AREA	AREA (acres)	Tc (min)	C	I <sub>100</sub> (in/hr)	Q <sub>100</sub> (cfs)	I <sub>100</sub> (in/hr)	Q <sub>100</sub> (cfs)
I	0.04	5	0.95	4.23	0.16	4.74	0.18
II	0.50	10	0.95	3.87	1.74	4.13	1.96
III	6.35	28	0.60	2.60	9.91	2.95	11.24
IV	0.09	5	0.95	4.23	0.36	4.74	0.41
V	11.33	30	0.60	2.42	16.45	2.77	18.83
VI	4.41	25	0.60	2.64	6.99	3.00	7.94
VII	6.97	30	0.60	2.42	10.12	2.77	11.58
VIII	9.24	30	0.60	2.42	13.42	2.77	15.35
IX	7.75	29	0.60	2.46	11.44	2.80	13.02
X	21.15	30	0.60	2.42	30.71	2.77	35.15
XI	27.14	30	0.60	2.42	39.41	2.77	45.11
POND A	5.33	SEE POND SHEET FOR CALCS.					
POND B	1.61	SEE POND SHEET FOR CALCS.					
PARK	6.87	SEE POND SHEET FOR CALCS.					

**LEGEND**

- Q RUN-OFF QUANTITY (CUBIC Ft./Sec)
- A WATERSHED AREA (ACRES)
- High Point
- Low Point
- ↓ DRAINAGE FLOW
- PROPOSED DRAINAGE AREA

SEE SHEET 55-58 FOR DRAINAGE STRUCTURES #1-#4

**FLOOD ZONE:**  
HEREON DESCRIBED TRACT LIES IN FLOOD ZONE C. COMMUNITY PANEL NO. 480214 0009D & PANEL NO. 480214 0015D SEPTEMBER 3, 1997

**NOTE:**  
ALL RETAINING WALLS EQUAL TO AND/OR HIGHER THAN 4" AND ALL WHEELCHAIR RAMPS TO BE BY DEVELOPER

BENCHMARK  
CITY MONUMENT AT THE CENTERLINE INTERSECTION OF COPPER CANYON DRIVE AND COPPER MINE LANE ELEVATION 4007.42  
DATE 04/19/13  
BY R.R.  
REVISIONS  
2ND SET OF CITY COMMENTS

SCALE: 1" = 100'

PROJECT NAME  
**MESQUITE HILLS UNIT SEVEN**  
BEING PORTION OF TRACTS 5 AND 6, SECTION 16, BLOCK 80, TOWNSHIP 1, TEXAS AND PACIFIC RAILROAD CO. SURVEYS, CITY OF EL PASO, EL PASO COUNTY, TEXAS CONTAINING: 108.78 ACRES

SCALE  
HORIZ: 1" = 100'  
VERT: ---  
DATE: DEC. 2012  
DESIGN BY: YC  
INITIATED BY: RR  
CHECKED BY: YC & FC  
JOB NO.: 512-24

ENGINEER'S SEAL  
CONDE INC.  
REGISTRATION NO. F-2221

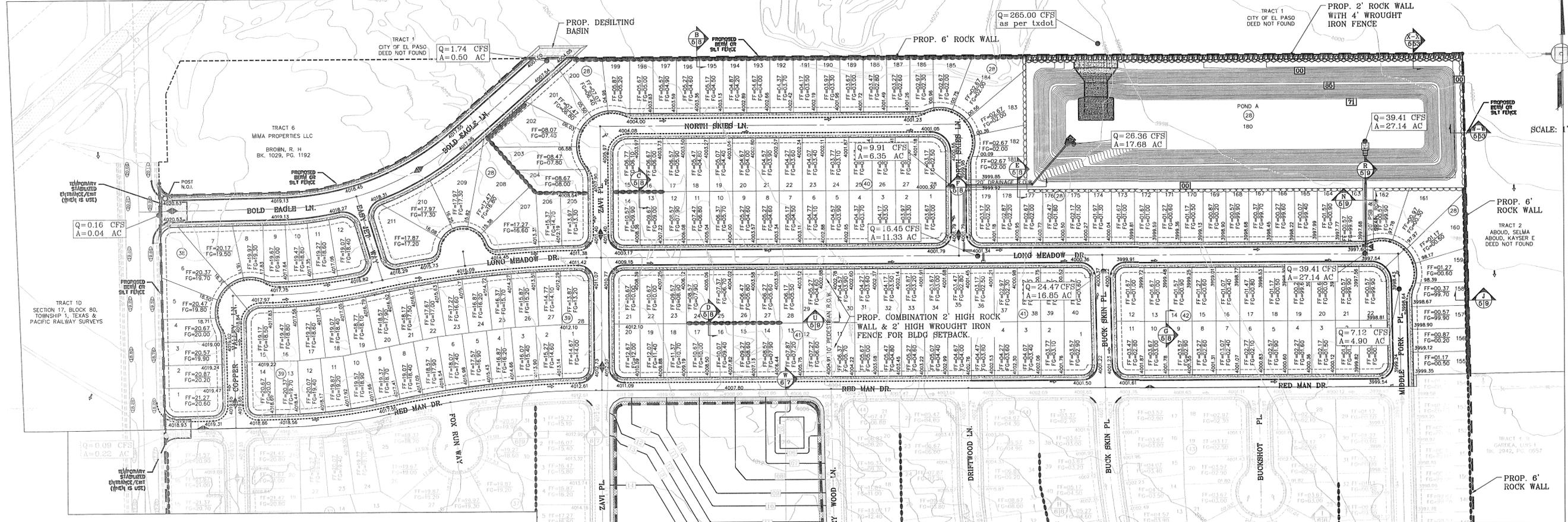
**CONDE INC.**  
ENGINEERING / PLANNING  
SURVEYING / GPS  
6080 SURETY DR. STE. 100  
EL PASO, TEXAS 79905  
PHONE: (915) 692-0283  
FAX: (915) 692-0286

**CONDE INC.**  
REGISTRATION NO. F-2221  
SHEET TITLE

**DRAINAGE PLAN**  
SHT 12 OF 80

CITY DEVELOPMENT DEPARTMENT  
**REVIEWED**

MESQUITE HILLS UNIT SEVEN



**PARK NOTES:**

- SILT FENCE THROUGHOUT THE PERIMETER OF THE PARK SITE.
- SILT FENCE IS TO BE MAINTAINED INTACT AND IN PLACE UNTIL THE SURROUNDING DEVELOPMENT IS COMPLETED.

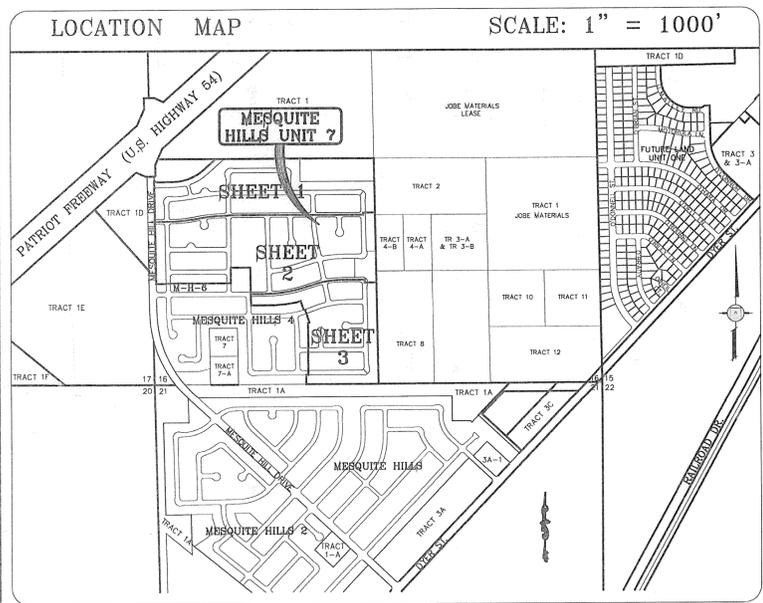
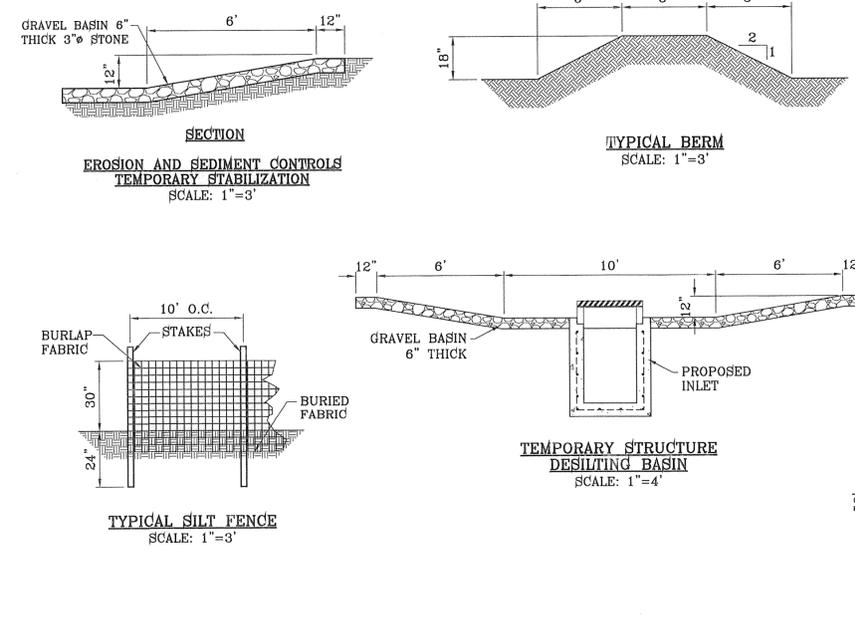
**NOTES:**

- T.P.D.E.S. PERMIT- AS REQUIRED BY CONTRACTOR
- STORM WATER AS PER N.P.D.E.S. PERMIT

**LEGEND**

FF=0.67	PROPOSED FINISH FLOOR
FG=0.00	PROPOSED FINISH GROUND
	HIGH POINT
	LOW POINT
	EXISTING CONTOUR
	EXISTING SPOT ELEVATION
	PROPOSED CONTOUR
	PROPOSED ROCK WALL
	PROPOSED RETAINING WALL
	PROPOSED 2' ROCK WALL WITH 4' WROUGHT IRON FENCE
	PROPOSED SILT FENCE
	DENOTES AS BUILT CONDITION ONLY

- STABILIZED ENTRANCE EROSION CONTROL NOTES**
- SILT FENCING OR TEMPORARY BERMS SHALL BE INSTALLED AT TIME OF CONSTRUCTION.
  - TEMPORARY SWALES AND DESILTING BASINS WILL BE PLACED WHERE NECESSARY IN ORDER TO CONVEY STORM WATER RUN-OFF.
  - A STABILIZED CONSTRUCTION ENTRANCE WILL BE PROVIDED TO HELP REDUCE VEHICLE TRACKING OF SEDIMENTS. THE PAVED STREET ADJACENT TO THE SITE ENTRANCE WILL BE SWEEPED WEEKLY TO REMOVE ANY EXCESS MUD, DIRT OR ROCK TRACKED FROM THE SITE.
  - THE OWNER SHALL BE RESPONSIBLE FOR INSURING THAT ALL EROSION CONTROL METHODS ARE INSPECTED ON A MONTHLY BASIS OR AFTER EVERY ERODIBLE RAINFALL (1/2" OR MORE). ANY NECESSARY REPAIRS OR CLEANUP TO MAINTAIN THE EFFECTIVENESS OF THE EROSION CONTROL SHALL BE MADE AT THE TIME.
  - A TEMPORARY BERM SHALL BE PROVIDED AT THE TOE OF SLOPE AND LOT LINE AT TIME OF GRADING PRIOR TO ROCKWALL CONSTRUCTION.
  - SILT FENCE TO BE INSTALLED AND MAINTAINED ALONG THE PERIMETER OF THE PARK SITE UNTIL ALL ABUTTING RESIDENCES ARE DEVELOPED.



BENCHMARK

CITY MONUMENT AT THE CENTERLINE INTERSECTION OF COPPER CANYON DRIVE AND COPPER MINE LANE	BY
ELEVATION 4007.42	DATE
..... CITY DATUM	REVISIONS
	04/19/13
	2ND SET OF CITY COMMENTS
	R.R.

**MESQUITE HILLS UNIT SEVEN**

BEING PORTION OF TRACTS 5 AND 6, SECTION 16, BLOCK 80, TOWNSHIP 11, TEXAS AND PACIFIC RAILROAD CO. SURVEYS, CITY OF EL PASO COUNTY, TEXAS CONTAINING: 108.78 ACRES

SCALE: 1" = 100'

VERT: ---

DATE: DEC. 2012

DESIGN BY: YC

INITIATED BY: RR

CHECKED BY: YC & FC

JOB NO.: 619-24



**CONDE INC.**

ENGINEERING / PLANNING  
SURVEYING / GPS

6080 SURETY DR. STE 100  
EL PASO, TEXAS 79905  
PHONE: (915) 592-0283  
FAX: (915) 592-0286



SHEET TITLE

**STORM WATER POLLUTION PREVENTION PLAN**

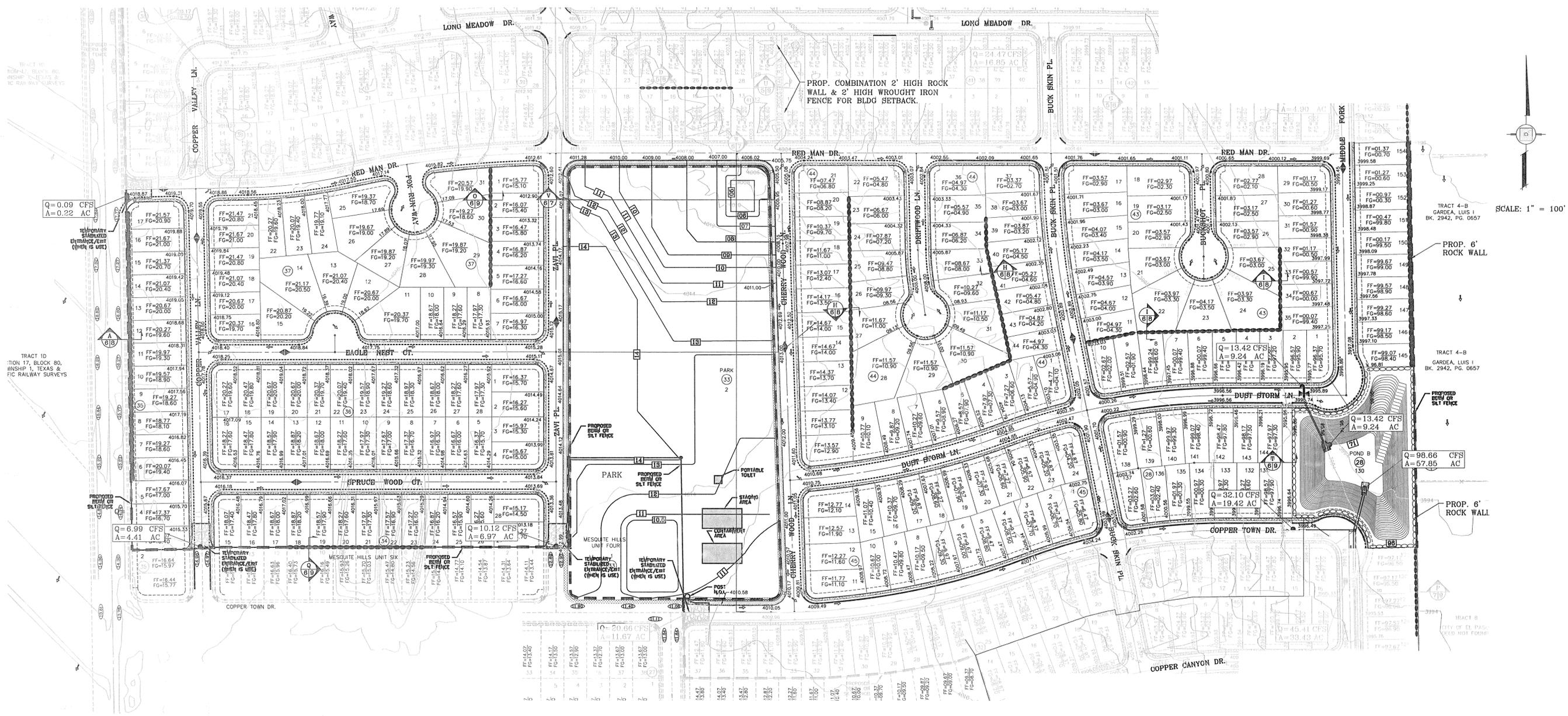
SHT 13 OF 80

CITY DEVELOPMENT DEPARTMENT

**REVIEWED**

MESQUITE HILLS UNIT SEVEN

FILE S:\Subdivisions\MESQUITE HILLS 7.DWG.GDPL PLOTTED Thursday, May 01, 2014 4:45:53 PM



SCALE: 1" = 100'

**LEGEND**

FF=0.67	PROPOSED FINISH FLOOR
FG=00.00	PROPOSED FINISH GROUND
▲	HIGH POINT
▼	LOW POINT
— 4000 —	EXISTING CONTOUR
— 4000 —	EXISTING SPOT ELEVATION
— 4000 —	PROPOSED CONTOUR
— [ ] —	PROPOSED ROCK WALL
— [ ] —	PROPOSED RETAINING WALL
— [ ] —	PROPOSED SILT FENCE
○	DENOTES AS BUILT CONDITION ONLY

BENCHMARK	
CITY MONUMENT AT THE CENTERLINE INTERSECTION OF COPPER CANYON DRIVE AND COPPER WINE LANE	
ELEVATION 4007.42	
DATE	04/19/13
REVISIONS	
BY	
R.R.	

**MESQUITE HILLS UNIT SEVEN**  
 BEING PORTION OF TRACTS 5 AND 6, SECTION 16, BLOCK 10, LOT 10, TOWNSHIP 11N, RANGE 14E, COUNTY OF EL PASO, TEXAS  
 SURVEYED BY: J. C. CURRY, LICENSE NO. 44643  
 CONTAINING: 108.78 ACRES

SCALE: 1" = 100'  
 HORIZ: 1" = 100'  
 VERT: 1" = 100'  
 DATE: DEC. 2012  
 DESIGN BY: JC  
 INITIATED BY: RR  
 CHECKED BY: JC & FC  
 JOB NO.: 612-24

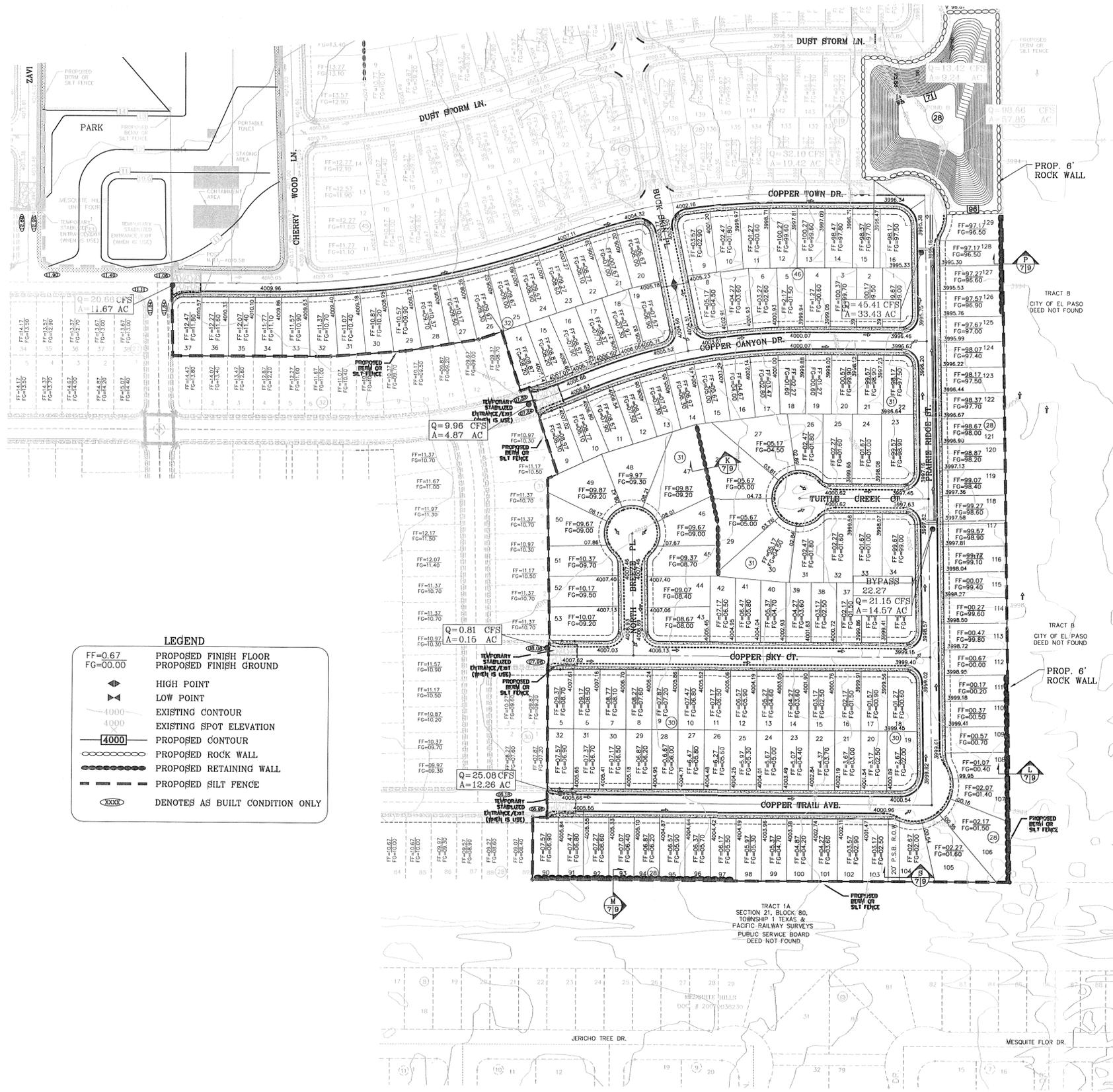


**CONDE INC.**  
 ENGINEERING / PLANNING  
 SURVEYING / GPS  
 6080 SURETY DR. STE 100  
 EL PASO, TEXAS 79905  
 PHONE: (915) 592-0283  
 FAX: (915) 592-0286

**CONDE INC.**  
 REGISTRATION NO. F-2311  
 SHEET TITLE

**STORM WATER POLLUTION PREVENTION PLAN**





**LEGEND**

- FF=0.67  
FG=00.00      PROPOSED FINISH FLOOR  
                         PROPOSED FINISH GROUND
- ▲                      HIGH POINT
- ▼                      LOW POINT
- 4000                  EXISTING CONTOUR
- 4000                  EXISTING SPOT ELEVATION
- 4000                  PROPOSED CONTOUR
- PROPOSED ROCK WALL
- PROPOSED RETAINING WALL
- PROPOSED SILT FENCE
- XXXX                 DENOTES AS BUILT CONDITION ONLY

SCALE: 1" = 100'



BENCHMARK

CITY MONUMENT AT THE CENTERLINE INTERSECTION OF COPPER CANYON DRIVE AND COPPER MINE LANE.  
ELEVATION 4007.42 ..... CITY DATUM

DATE	REVISIONS	BY
04/19/13	2ND SET OF CITY COMMENTS	R.R.

PROJECT NAME

**MESQUITE HILLS UNIT SEVEN**

BEING PORTION OF TRACTS 5 AND 6, SECTION 16, BLOCK 80, TOWNSHIP 1, TEXAS AND PACIFIC RAILROAD CO. SURVEYS, CITY OF EL PASO, EL PASO COUNTY, TEXAS  
CONTAINING: 108.78 ACRES

S C A L E

HORIZ. 1" = 100'

VERT. ---

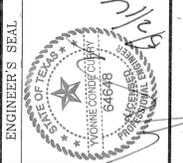
DATE: DEC. 2012

DESIGN BY: YC

INITIATED BY: RR

CHECKED BY: YC & FC

JOB NO.: 512-24



**CONDE INC.**

ENGINEERING / PLANNING  
SURVEYING / GPS

6080 SURETY DR. STE 100  
EL PASO, TEXAS 79905  
PHONE: (915) 592-0283  
FAX: (915) 592-0286



SHEET TITLE

**STORM WATER POLLUTION PREVENTION PLAN**

SHT 15 OF 80

CITY DEVELOPMENT DEPARTMENT

**REVIEWED**

**SITE DESCRIPTION: PROJECT DESCRIPTION**

1. NO ASPHALT BATCH PLANTS FOR THIS SITE.

**BEST MANAGEMENT PRACTICES**

- 1. STRUCTURAL CONTROL MEASURES SHALL BE MAINTAINED THROUGHOUT THE LIFE OF THE PROJECT IN EFFECTIVE OPERATING CONDITION.
2. DOCUMENTATION OF MAINTENANCE ACTIVITIES INCLUDING FREQUENCY, LOT DESIGNATION, INSPECTION OF: STRUCTURAL CONTROLS, MATERIAL STORAGE AREAS, VEHICLES ENTRANCE AND EXITS: ACTIONS TAKEN AND INSPECTORS NAME.
3. CONSTRUCTION SITE NOTICE WILL BE MAINTAINED ON SITE.
4. COPY OF SWPPP SHALL BE KEPT ON SITE.
5. PERMITTEE MUST RETAIN THE SWP3, NOI AND INSPECTION LOG FOR A MINIMUM OF THREE YEARS FROM TERMINATION AND FINAL STABILIZATION OF PROJECT.

**I. WASTE MATERIALS**

ALL WASTE MATERIALS, INCLUDING CONSTRUCTION DEBRIS, SHALL BE COLLECTED AND STORED IN A SECURELY LIDDED METAL DUMPSTER. NO CONSTRUCTION MATERIAL SHALL BE BURIED ON SITE. THE DUMPSTER SHALL BE EMPTIED AS NECESSARY OR AS REQUIRED BY ORDINANCE 9.04 (SOLID WASTE MANAGEMENT) AND THE TRASH 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 STABILIZATIONS, 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 NMED.

**III. SANITARY WASTE**

ALL SANITARY WASTE SHALL BE COLLECTED FROM THE CONSTRUCTION PORTABLE UNITS AS NECESSARY 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.

**A. 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.

**B. HAZARDOUS PRODUCTS:**

PRACTICES USED TO REDUCE RISKS:

- A. KEEP PRODUCTS IN THEIR ORIGINAL CONTAINER IF AT ALL POSSIBLE
B. RETAIN ORIGINAL LABELS, PRODUCT INFORMATION AND MATERIAL SAFETY DATA SHEETS (MSDS)
C. DISPOSE SURPLUS PRODUCT IN ACCORDANCE WITH MANUFACTURER'S OR LOCAL AND STATE RECOMMENDED METHODS

**C. PETROLEUM PRODUCTS:**

PRODUCTS SHALL BE STORED IN TIGHTLY SEALED CONTAINERS WHICH ARE CLEARLY LABELED. ANY ASPHALT SUBSTANCES USED ON-SITE SHALL BE APPLIED ACCORDING TO THE MANUFACTURER'S RECOMMENDATION.

**V. SPILL CONTROL PRACTICES:**

- A. MANUFACTURER'S RECOMMENDED METHODS FOR SPILL CLEANUP SHALL BE CLEARLY POSTED AND SITE PERSONNEL SHALL BE MADE AWARE OF THE PROCEDURES.
B. MATERIALS AND EQUIPMENT NECESSARY FOR SPILL CLEANUP SHALL BE KEPT IN THE MATERIAL STORAGE AREA ON-SITE.
C. ALL SPILLS SHALL BE CLEANED UP IMMEDIATELY AFTER DISCOVERY.
D. SPILL AREA SHALL BE WELL VENTILATED AND APPROPRIATE CLOTHING WILL BE WORN.
E. ANY SPILL SHALL BE REPORTED TO THE APPROPRIATE GOVERNMENTAL AGENCY.
F. MEASURES SHALL BE TAKEN TO PREVENT A SPILL FROM REOCCURRING

**VI. MAINTENANCE AND INSPECTION PROCEDURES**

ALL POLLUTION PREVENTION MEASURES SHALL BE INSPECTED AT LEAST ONCE EVERY 14 DAYS AND FOLLOWING A STORM EVENT OF 0.5 INCHES OR MORE. BEST MANAGEMENT PRACTICES AND POLLUTION CONTROL PROCEDURES SHALL BE INSPECTED FOR ADEQUACY. A RECORD OF THE RESULTS OF THE INSPECTIONS OF THE SITE SHALL BE KEPT ON SITE.

**VII. REMARKS**

DISPOSAL AREAS, STOCKPILES, AND HAUL ROADS SHALL BE CONSTRUCTED IN A MANNER THAT WILL MINIMIZE AND CONTROL THE AMOUNT OF SEDIMENT THAT MAY ENTER RECEIVING WATERS. CONSTRUCTION STAGING AREAS AND VEHICLE MAINTENANCE AREAS SHALL BE CONSTRUCTED BY THE CONTRACTOR IN A MANNER TO MINIMIZE THE RUNOFF OF POLLUTANTS.

**STORM WATER POLLUTION PREVENTION PLAN**

**GENERAL CONTRACTOR CERTIFICATION**

I CERTIFY UNDER PENALTY OF LAW THAT I UNDERSTAND THE TERMS AND CONDITIONS OF THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) GENERAL PERMIT THAT AUTHORIZES STORM WATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITY FROM THE CONSTRUCTION SITE IDENTIFIED AS PART OF THIS CERTIFICATION.

ROBERT F. FOSTER, INC.
COMPANY:

SIGNED: 6080 SURETY DRIVE, SUITE 300
ADDRESS:

TITLE: PRESIDENT 915-595-2775
TELEPHONE:
JAN. 28, 2013
DATE:

**OWNER CERTIFICATION**

I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHERED AND EVALUATED THE INFORMATION SUBMITTED. BASED ON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM, OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION, THE INFORMATION SUBMITTED IS, TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS.

OWNER: (SIGNED) DATE: JAN. 28, 2013
NEWMAN RANCH PARTNERS, L.P. BY NEWMAN RANCH, L.L.C.
OWNER: (NAME)
ITS GENERAL PARTNER
BY: DOUGLAS A. SCHWARTZ, MANAGER
PHONE NUMBER:

**NARRATIVE-SEQUENCE OF CONSTRUCTION (STORM WATER MANAGEMENT) ACTIVITIES:**

ESTIMATED BEGINNING CONSTRUCTION DATE: JANUARY 2013

- 1. BEGIN CONSTRUCTION/MOBILIZATION (5 DAYS)
2. INSTALL INITIAL STORMWATER POLLUTION PREVENTIONS (SWPP) MEASURES AS INDICATED ON SWPP PLAN ( DAYS)
3. CLEAR AND GRUB
4. SITE GRADING
5. PERFORM PERIODIC INSPECTIONS OF THE SWPP STRUCTURES, PERFORM MAINTENANCE AND REPLACEMENTS AS NEEDED (DURATION OF CONSTRUCTION).
6. EXCAVATION FOR SITE UTILITIES AND STORM SEWER
7. CONSTRUCTION OF SITE IMPROVEMENTS AND STORM SEWER
8. END CONSTRUCTION - FINAL STABILIZATION, DEMOBILIZATION, REMOVAL OF SWPPP CONTROLS, AND SUBMIT NOTICE OF TERMINATION.

ESTIMATED CONSTRUCTION COMPLETION DATE: JANUARY 2014

CONSTRUCTION ACTIVITIES LOG
Table with columns: ACTIVITIES, DATE, SIGNATURE. Multiple empty rows.

**INSPECTION AND MAINTENANCE REPORT**

I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHERED AND EVALUATED THE INFORMATION SUBMITTED. BASED ON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM, OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION, THE INFORMATION SUBMITTED IS, TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWN VIOLATIONS.

SIGNED: DATE:

SWPPP COORDINATOR NAME: JAVIER NAVARRO
PHONE NUMBER: (915) 494-4066

LOG OF ACTIVITIES AVAILABLE: SWPPP COORDINATOR.
INSPECTION LOG AVAILABLE: SWPPP COORDINATOR
SCHEDULE OF ACTIVITIES AVAILABLE: SWPPP COORDINATOR

SITE DESCRIPTION: PROJECT DESCRIPTION
THE EXISTING SITE IS UNDEVELOPED DESERT. THERE ARE NO SURFACE WATERS ON THE SITE ITSELF OR ADJACENT TO THE SITE. THE SITE DISTURBANCE AREA IS 108.78 ACRES.

THE SITE MAP SHOWS THE PROPERTY BOUNDARIES WITH THE PROPOSED LOCATION OF THE ROADWAYS, LOTS, STORM INLETS AND RETENTION BASINS. THIS SITE WILL BE GRADED, ROADWAYS PAVED AND DRAINAGE STRUCTURES CONSTRUCTED. THE GRADED LOTS WILL DRAIN TO THE GRADED STREETS AND THEN TO THE STORM INLETS WHICH WILL CONDUCT THE STORM RUNOFF VIA UNDERGROUND STRUCTURES TO A RETENTION BASIN.

INTERIM STABILIZATION MEASURES ARE AS FOLLOWS: PERIMETER TEMPORARY EARTHEN BERMS, TEMPORARY STABILIZED CONSTRUCTION SITE EXIT, TEMPORARY DESILTING BASINS

FINAL STABILIZATION WILL BE PERFORMED BY THE HOME BUILDERS WHICH WILL CONSTRUCT A SINGLE BUILDING ON EACH LOT AND PLACE LANDSCAPING ON EXPOSED SURFACES.

THE RECEIVING WATERS ARE PONDING AREA AT LOT 130 and 181 BLOCK 2B

STORM WATER SAMPLING DATA IS NOT AVAILABLE FOR THIS SITE.

NO CONCRETE OR BATCH PLANTS ON THIS SITE.

NO APPARENT ENDANGERED SPECIES ON SITE. NO HISTORIC PROPERTIES ON SITE.

**STORM WATER CONTAMINANTS ON SITE**

THE FOLLOWING ARE THE POTENTIAL STORM WATER POLLUTANTS (CHECKED ITEMS ONLY):
CLEANING SOLVENTS \_\_\_\_\_ EQUIP. CLEANING WASTEWATER \_\_\_\_\_
ASPHALT \_\_\_\_\_ HYDRAULIC OIL/FLUIDS \_\_\_\_\_
CONCRETE \_\_\_\_\_ GASOLINE \_\_\_\_\_
PAINTS \_\_\_\_\_ DIESEL FUEL \_\_\_\_\_
CURING COMPOUNDS \_\_\_\_\_ ANTIFREEZE/COOLANT \_\_\_\_\_

THE CONTAINMENT AREA FOR THESE ITEMS IS LOCATED: AS SHOWN ON PLAN

THE STAGING AREA FOR THIS SITE IS LOCATED: AS SHOWN ON PLAN

THE PORTABLE TOILET FOR THIS SITE IS LOCATED: AS SHOWN ON PLAN

NON STORM WATER DISCHARGES ON SITE (CHECKED ITEMS ONLY).
FIRE HYDRANT FLUSHING \_\_\_\_\_ WATER LINE FLUSHING WATER \_\_\_\_\_
VEHICLE WASH WATER \_\_\_\_\_ LANDSCAPE IRRIGATION \_\_\_\_\_
DUST CONTROL WATER \_\_\_\_\_ PAVEMENT WASH WATERS \_\_\_\_\_

ALL STAGING AREAS, PORTABLE TOILETS AND POLLUTANT AREAS WILL INCORPORATE SECONDARY CONTAINMENT MEASURES SUCH AS BERMS OR SEDIMENT TRAPS/BARRIERS.

**GRADING STABILIZATION ACTIVITY PLAN**

**GRADING STABILIZATION PLAN**

- 1. SEDIMENT CAUSED BY EXCESSIVE EROSION SHALL BE REMOVED FROM RUNOFF WATER BEFORE LEAVING THE SITE
2. PROJECT AREAS PHYSICALLY DISTURBED DURING DEVELOPMENT SHALL BE EXPOSED TO EROSION PRODUCING INFLUENCES FOR THE SHORTEST PERIOD OF TIME.
3. AFTER COMPLETION OF THE SITE GRADING THE PROJECT AREAS SHALL BE WATERED AS REQUIRED TO CONTROL WIND EROSION.
4. SITE MONITORING SHALL BE PERFORMED BY THE PERMITTEE RESPONSIBLE FOR THE GRADING. ALL STABILIZATION MEASURES SHALL BE CHECKED ON A MONTHLY BASIS AND SHALL CONTINUE TO BE MAINTAINED.
5. A MONITORING AND INSPECTION PROGRAM SHALL BE IMPLEMENTED UNTIL A STABILIZED SITE IS ACHIEVED OF BUILDING RESUMES. INACTIVE/IDLE SITES SHALL BE INSPECTED AND MAINTAINED ON ONE OF THE FOLLOWING SCHEDULES: A. AT LEAST ONCE EVERY 14 CALENDAR DAYS AND WITHIN 24 HOURS OF A WIND EVENT B. AT LEAST ONCE EVERY 7 CALENDAR DAYS ON A SET SPECIFIC DAY
6. AFTER PERMITTEE COMPLETES THE GRADING THE PERMIT SHALL BE CLOSED. AS PART OF THE CLOSEOUT PROCEDURES, THE APPLICANT MUST SUBMIT THE FOLLOWING:

a. A STATEMENT FROM THE ENGINEER OF RECORD THAT STATES THE GRADING OPERATION HAS BEEN SUBSTANTIALLY COMPLETED AND GENERALLY CONFORMS TO THE APPROVED SET OF PLANS.
THE PERMITTEE SHALL CALL THE PERMIT OFFICIAL TO ESTABLISH THE BEGINNING OF THE WARRANTY PERIOD AND NOTIFY THE PERMIT OFFICIAL GSP HAS BEEN IMPLEMENTED.
b. SHALL SUBMIT A COPY OF THE NOTICE OF TERMINATION FILED WITH THE STATE.

GRADING STABILIZATION MAINTENANCE AND SCHEDULE PLAN
Table with columns: STABILIZATION MEASURES, INSPECTION DATE, MAINT. DATE, MAINTAINANCE TYPE. Rows include: WATERING OF SITE, WEED PREVENTION AND MOWING, RE-GRADE OF SITE DUE TO EROSION, SEDIMENT FROM EROSION SHALL BE REMOVED FROM SITE, ASSURE MAINTENANCE OF SWPPP MEASURES.

**PERMITTEE CERTIFICATION**

I CERTIFY AND AGREE TO WARRANT AND MAINTAIN THE SITE AS DESCRIBED IN THIS GSP UNTIL BUILDING PERMIT IS ISSUED OR THE CITY CLOSES THE PERMIT AS SPECIFIED IN MUNICIPAL CODE SECTION 18.44.090.

PERMITTEE: (SIGNED) DATE: JANUARY 28, 2013
NEWMAN RANCH PARTNERS, L.P. BY NEWMAN RANCH, L.L.C.
OWNER: (NAME) ITS GENERAL PARTNER
(915) 592-0290 BY: DOUGLAS A. SCHWARTZ, MANAGER
PHONE NUMBER:



REVIEWED

Vertical information on the right edge including 'BENCHMARK', 'CITY MONUMENT AT THE CENTERLINE INTERSECTION OF COPPER CANYON DRIVE AND COPPER MOUNTAIN DRIVE', 'ELEVATION 4007.42', 'PROJECT NAME: MESQUITE HILLS UNIT SEVEN', 'BEING PORTION OF TRACTS 5 AND 6, SECTION 16, BLOCK 80, TOWNSHIP 1, TEXAS AND PACIFIC RAILROAD CO., SURVEYS, CITY OF EL PASO, EL PASO COUNTY, TEXAS', 'CONTAINING: 108.78 ACRES', 'DATE: 04/19/13', '2ND SET OF CITY COMMENTS', 'BY: REVISIONS', 'R.R.'.

S C A L E
HORIZ: ---
VERT: ---
DATE: DEC. 2012
DESIGN BY: JC
INITIATED BY: RR
CHECKED BY: YC & FC
JOB NO.: 512-24



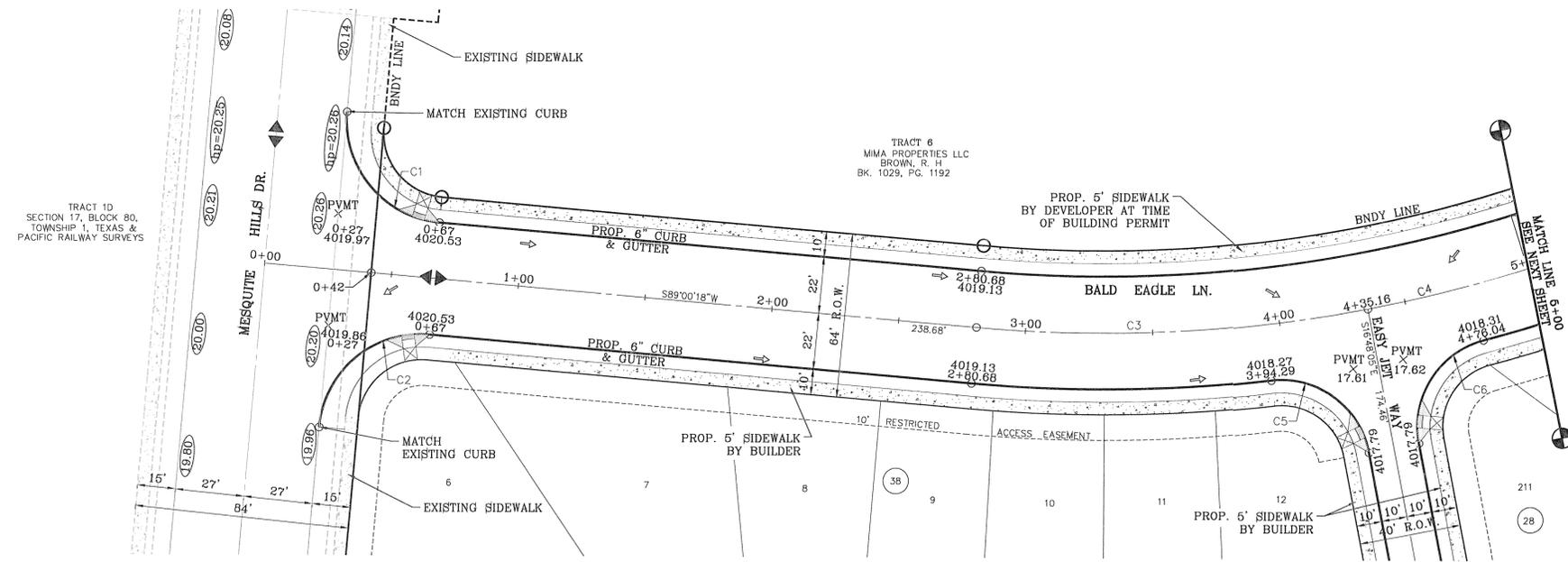
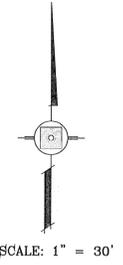
CONDE INC.
ENGINEERING / PLANNING
SURVEYING / GPS
6080 SURETY DRIVE, SUITE 100
EL PASO, TEXAS 79905
PHONE: (915) 592-0283
FAX: (915) 592-0286

CONDE INC. REGISTRATION No. F-2321
SHEET TITLE
STORM WATER POLLUTION PREVENTION & GRADING STABILIZATION NOTES
SHT 16 OF 80

FILE: S:\Subdivisions\MESQUITE HILLS 7\DWG\GDRP\_PLTTED Thursday, May 01, 2014 4:45:45 PM

FILE S:\Subdivisions\MESQUITE HILLS 7.DWG\APP-BALD EAGLE PLDTED Thursday, May 01, 2014 4:45:55 PM

CURVE TABLE						
CURVE	RADIUS	LENGTH	TANGENT	CHORD	BEARING	DELTA
C1	40.00'	62.83'	40.00'	56.57'	S45°59'42"E	90°00'00"
C2	40.00'	62.83'	40.00'	56.57'	S44°00'18"W	90°00'00"
C3	560.00'	154.49'	77.74'	154.00'	N81°06'07"E	15°48'23"
C4	560.00'	241.08'	122.44'	239.23'	N60°51'56"E	24°39'58"
C5	35.00'	52.42'	32.53'	47.66'	N59°42'36"W	85°49'03"
C6	35.00'	52.42'	32.53'	47.66'	S26°06'27"W	85°49'03"



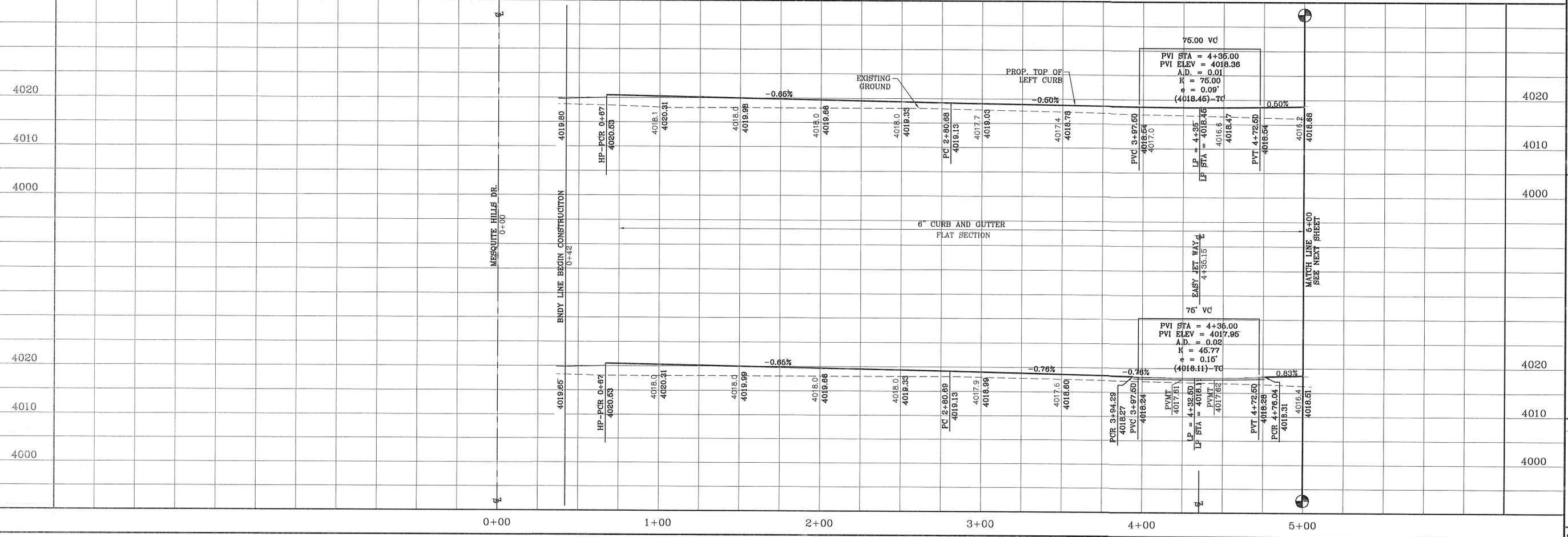
DENOTES AS BUILT CONDITIONS

CITY DEVELOPMENT DEPARTMENT  
REVIEWED

NOTE:  
ALL WHEELCHAIR RAMPS  
TO BE BY DEVELOPER

BENCHMARK	CITY MONUMENT AT THE CENTERLINE INTERSECTION OF COPPER CANYON DRIVE AND COPPER MINE LANE. ELEVATION 4007.42
DATE	04/19/13
BY	REVISIONS
R.R.	2ND SET OF CITY COMMENTS

PROJECT NAME  
**MESQUITE HILLS UNIT SEVEN**  
BEING PORTION OF TRACTS 5 AND 6, SECTION 16, BLOCK 100, TOWNSHIP 17S, RANGE 10E, PACIFIC RAILROAD CO. SURVEYS, CITY OF EL PASO, TEXAS COUNTY, TEXAS CONTAINING: 108.78 ACRES



SCALE  
HORIZ: 1" = 30'  
VERT: 1" = 10'  
DATE: DEC. 2012  
DESIGN BY: YC  
INITIATED BY: RR  
CHECKED BY: YC & FC  
JOB NO.: 612-24

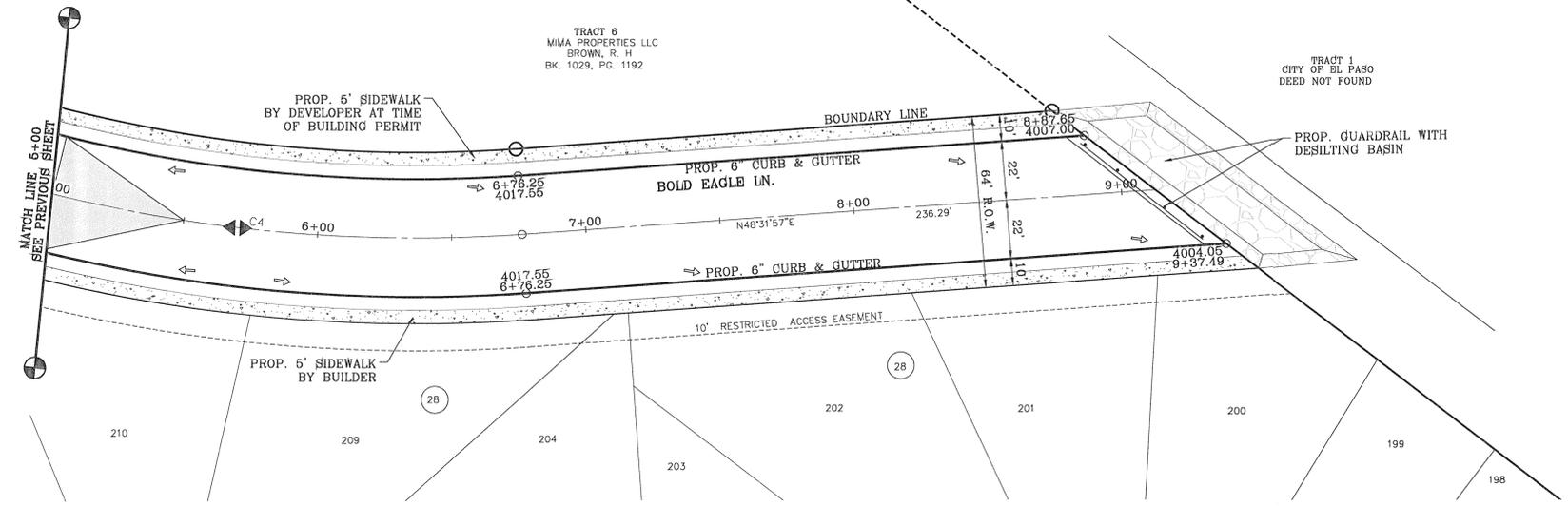


**CONDE INC.**  
ENGINEERING / PLANNING  
SURVEYING / GPS  
6080 SURETY DR. STE 100  
EL PASO, TEXAS 79905  
PHONE: (915) 592-0283  
FAX: (915) 592-0286



SHEET TITLE  
**BALD EAGLE LN.**  
STA: 0+00  
TO  
STA: 5+00

CURVE TABLE						
CURVE	RADIUS	LENGTH	TANGENT	CHORD	BEARING	DELTA
C4	560.00'	241.08'	122.44'	239.23'	N60°51'56"E	24°39'58"



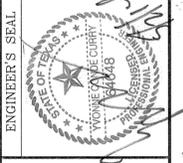
CITY DEVELOPMENT DEPARTMENT  
**REVIEWED**

**NOTE:**  
 ALL WHEELCHAIR RAMP  
 TO BE BY DEVELOPER

BENCHMARK	
CITY MONUMENT AT THE CENTERLINE INTERSECTION OF COPPER CANYON DRIVE AND COPPER MINE LANE ELEVATION 4007.42	.....CITY DATUM
DATE	REVISIONS
04/19/13	2ND SET OF CITY COMMENTS
BY	R.R.

PROJECT NAME  
**MESQUITE HILLS UNIT SEVEN**  
 BEING PORTION OF TRACTS 5 AND 6, SECTION 16, BLOCK 8C, TOWNSHIP 1, TEXAS AND PACIFIC RAILROAD CO. SURVEY, CITY OF EL PASO, EL PASO COUNTY, TEXAS CONTAINING: 106.76 ACRES

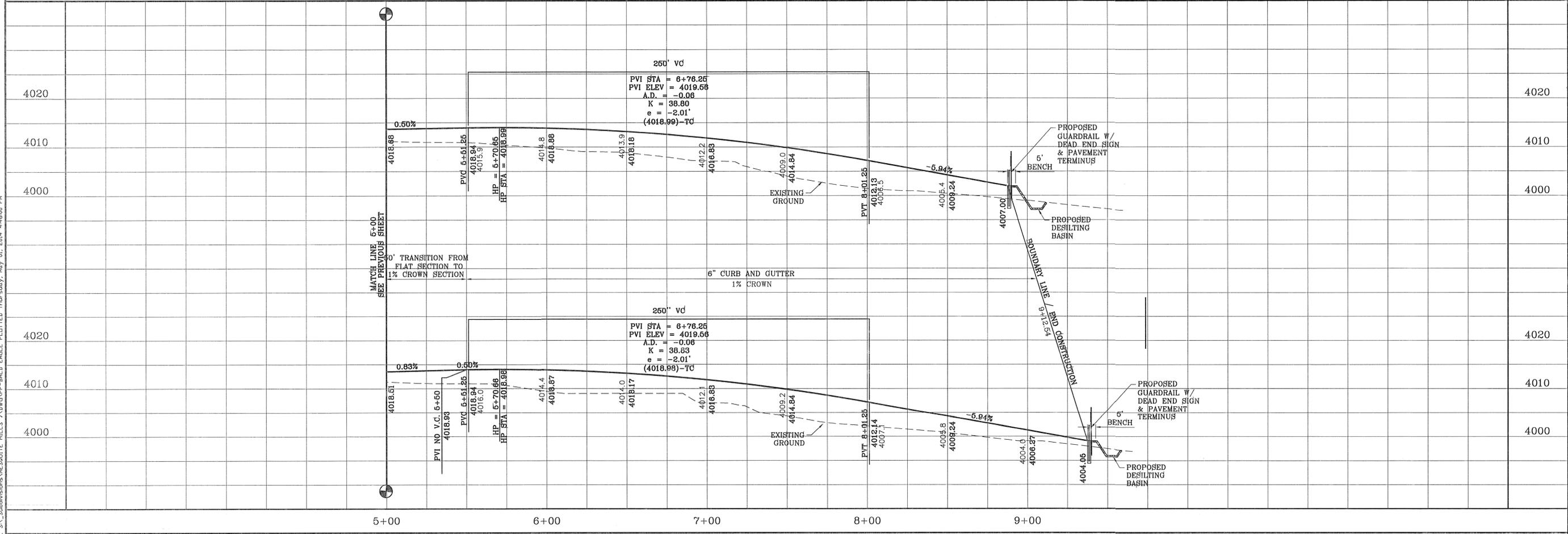
SCALE  
 HORIZ: 1" = 30'  
 VERT: 1" = 10'  
 DATE: DEC. 2012  
 DESIGN BY: YC  
 INITIATED BY: RR  
 CHECKED BY: YC & FC  
 JOB NO.: 512-24



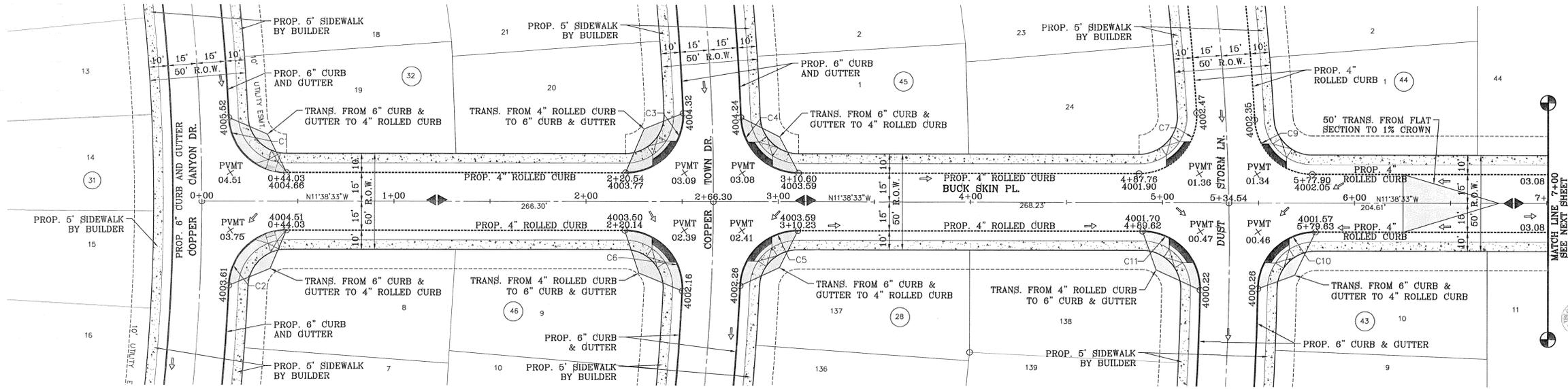
**CONDE INC.**  
 ENGINEERING / PLANNING  
 SURVEYING / GPS  
 6080 SURETY DR. SITE 100  
 EL PASO, TEXAS 79905  
 PHONE: (915) 592-0283  
 FAX: (915) 592-0286

SHEET TITLE  
**STREET PLAN-PROFILE**  
**BALD EAGLE LN.**  
 STA: 5+00 TO 9+12.54

FILE: S:\Subdivisions\MESQUITE\_HILLS\_7\DWG\VP-BALD\_EAGLE\_PLOTTED\_Thursday, May 01, 2014 4:46:00 PM



CURVE TABLE						
CURVE	RADIUS	LENGTH	TANGENT	CHORD	BEARING	DELTA
C1	30.00'	45.83'	28.73'	41.50'	N32°07'24"E	87°31'55"
C2	30.00'	45.83'	28.73'	41.50'	S55°24'31"E	87°31'55"
C3	30.00'	48.27'	31.17'	43.23'	N57°44'09"W	92°11'11"
C4	30.00'	46.07'	28.96'	41.67'	N32°21'01"E	87°59'08"
C5	30.00'	45.82'	28.72'	41.49'	S55°23'51"E	87°30'35"
C6	30.00'	48.54'	31.45'	43.42'	S34°42'32"W	92°42'11"
C7	30.00'	48.86'	31.79'	43.64'	N58°18'15"W	93°19'25"
C9	30.00'	45.50'	28.42'	41.27'	N31°48'41"E	86°54'28"
C10	30.00'	46.66'	29.54'	42.10'	S56°11'49"E	89°06'32"
C11	30.00'	47.63'	30.51'	42.78'	S33°50'11"W	90°57'28"



NOTE:  
ALL WHEELCHAIR RAMPS  
TO BE BY DEVELOPER

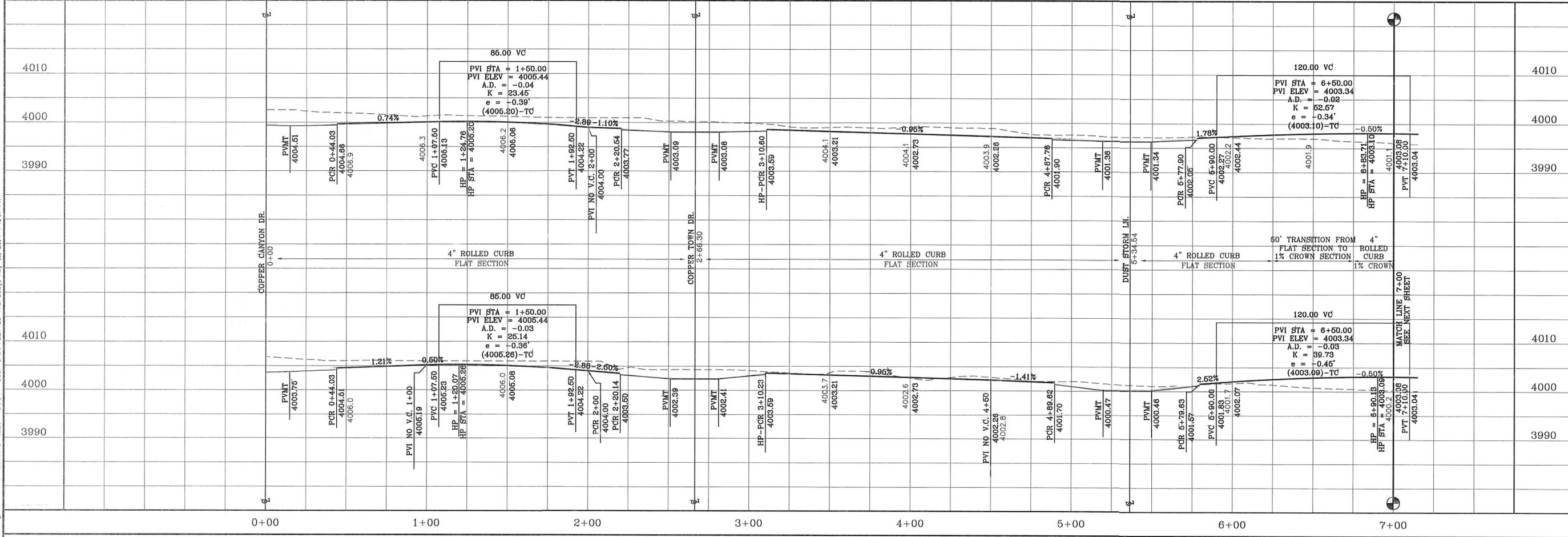
CITY DEVELOPMENT DEPARTMENT  
REVIEWED

REVISIONS	
DATE	BY
04/19/13	

2ND SET OF CITY COMMENTS

PROJECT NAME  
MESQUITE HILLS UNIT SEVEN  
BEING PORTION OF TRACTS 5 AND 6, SECTION 16, BLOCK 11, PHASE 2, AN UNINCORPORATED RAILROAD CROSSING SURVEYED BY E. PASARIC & ASSOCIATES, P.C., SURVEYERS, CITY OF EL PASO, TEXAS  
CONTAINING: 108.76 ACRES

FILE S:\Subdivisions\MESQUITE HILLS 7ADWGP-PP-BUCK SKIN PLOTTED Thursday, May 01, 2014 4:46:17 PM



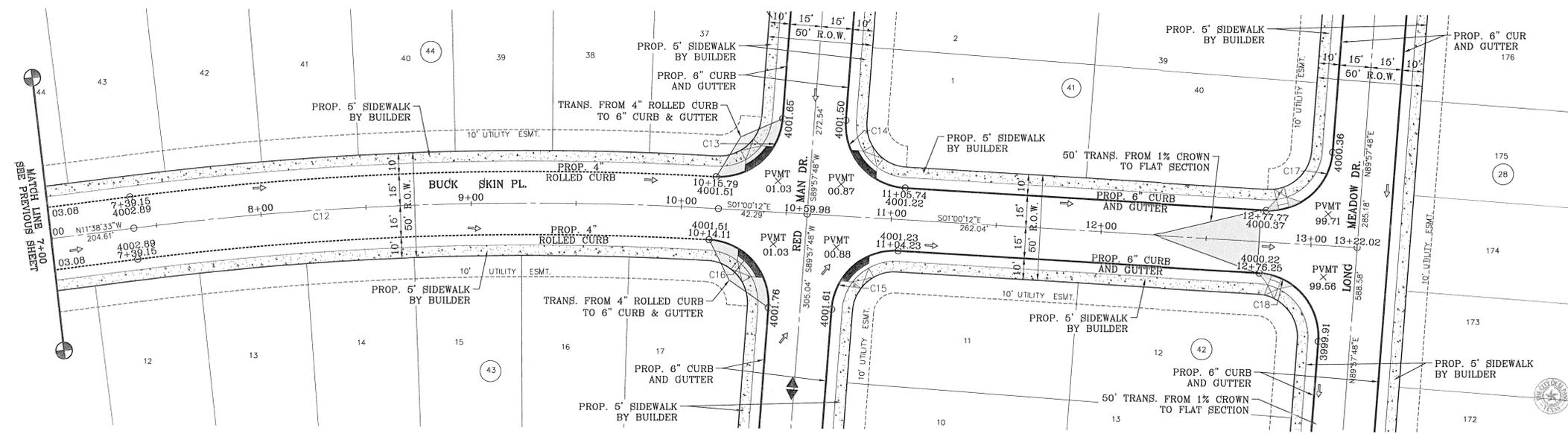
ENGINEER'S SEAL  
CONDE INC. ENGINEERING / PLANNING SURVEYING / GFS  
6080 SURETY DR. STE 100  
EL PASO, TEXAS 79905  
PHONE: (915) 592-0283  
FAX: (915) 592-0266

SHEET TITLE  
STREET  
PLAN-PROFILE  
**BUCK SKIN  
PL.**  
STA: 0+00  
TO  
STA: 7+00

SHT 19 OF 80  
MESQUITE HILLS UNIT SEVEN

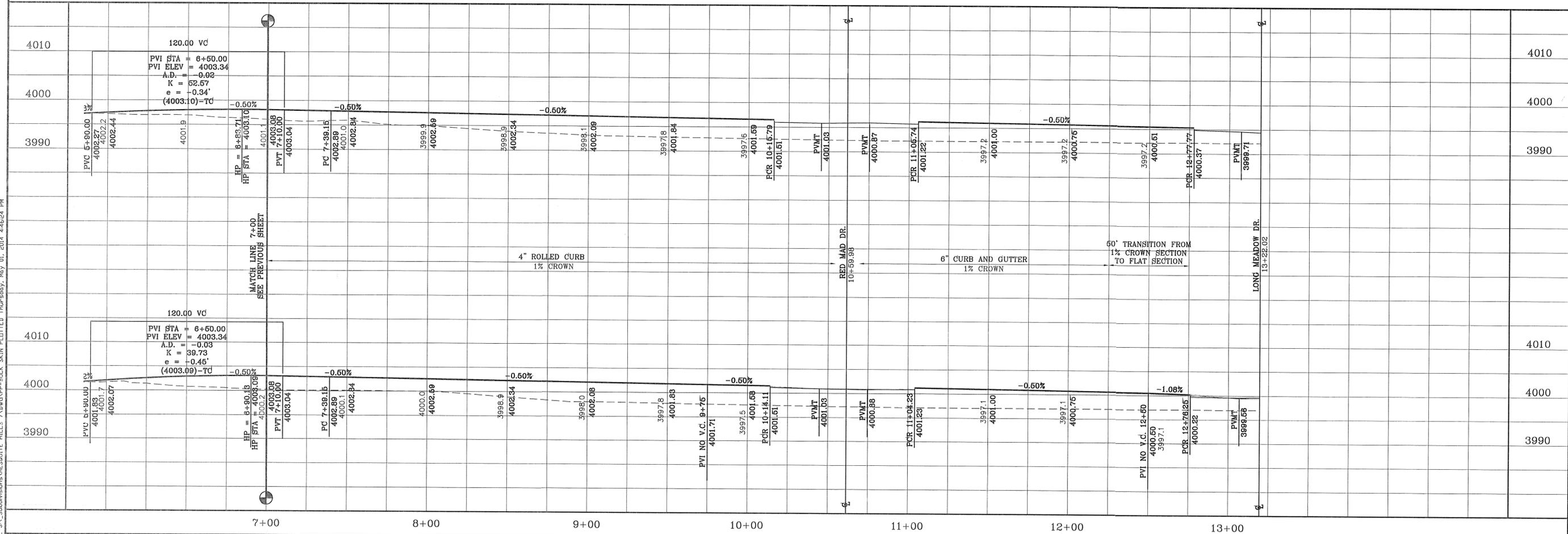
CURVE TABLE						
CURVE	RADIUS	LENGTH	TANGENT	CHORD	BEARING	DELTA
C12	1500.00'	278.54'	139.67'	278.14'	S6°19'22"E	10°38'21"
C13	30.00'	46.58'	29.46'	42.04'	N45°33'22"W	88°57'39"
C14	30.00'	47.63'	30.51'	42.78'	N44°28'48"E	90°58'00"
C15	30.00'	46.62'	29.50'	42.07'	S45°31'12"E	89°02'00"
C16	30.00'	47.70'	30.58'	42.83'	S44°24'42"W	91°06'12"
C17	30.00'	46.62'	29.50'	42.07'	N45°31'12"W	89°02'00"
C18	30.00'	47.63'	30.51'	42.78'	S44°28'48"W	90°58'00"

SCALE: 1" = 30'



REVIEWED

NOTE:  
ALL WHEELCHAIR RAMPS  
TO BE BY DEVELOPER



DATE	BY	REVISIONS
04/19/13	YC & RR	2ND SET OF CITY COMMENTS

**MESQUITE HILLS UNIT SEVEN**  
 BEING PORTION OF TRACTS 5 AND 6, SECTION 16, BLOCK 80, TOWNSHIP 1, TEXAS AND PACIFIC RAILROAD CO. SURVEYS, CITY OF EL PASO, EL PASO COUNTY, TEXAS CONTAINING: 108.78 ACRES

DESIGN BY: YC  
 INITIATED BY: RR  
 CHECKED BY: YC & FC  
 JOB NO.: 512-24



**CONDE INC.**  
 ENGINEERING / PLANNING  
 SURVEYING / GPS  
 6080 SURETY DR. STE 100  
 EL PASO, TEXAS 79905  
 PHONE: (915) 592-0283  
 FAX: (915) 592-0286

**BUCK SKIN PL.**  
 STA: 7+00  
 TO  
 STA: 13+22.02

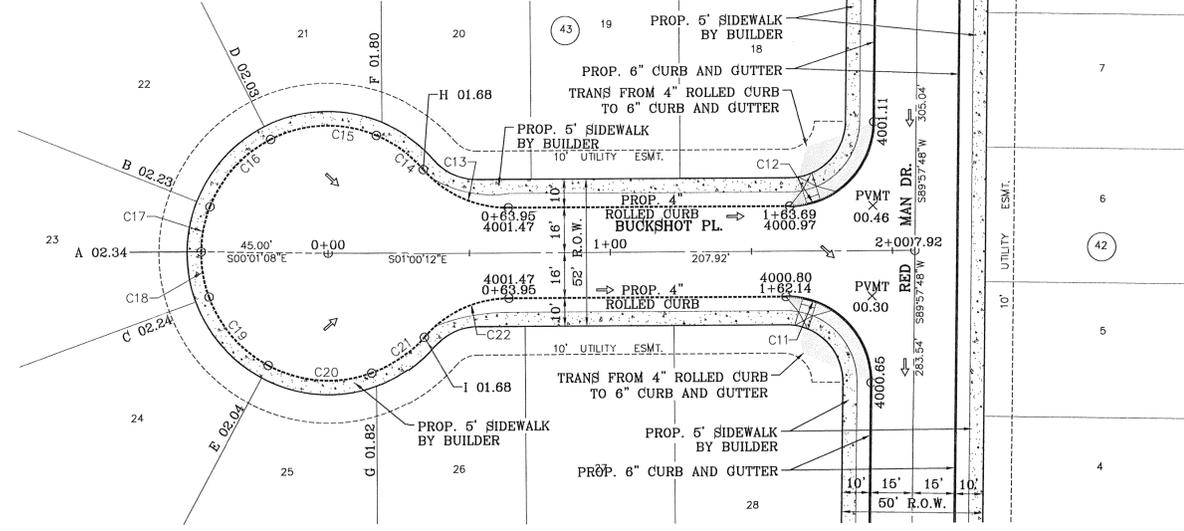
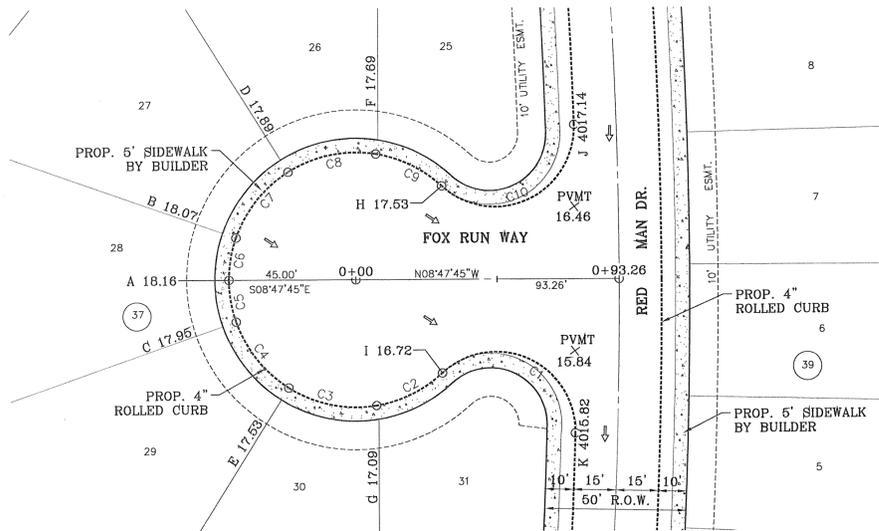
FILE: S:\Subdivisions\MESQUITE HILLS 7\DWG\PP-BUCK SKIN PL.DWG, Thursday, May 01, 2014, 4:46:24 PM

CURVE TABLE						
CURVE	RADIUS	LENGTH	TANGENT	CHORD	BEARING	DELTA
C1	28.00'	65.65'	66.51'	51.61'	S15°41'31"W	134°20'12"
C2	45.00'	26.37'	13.58'	26.00'	N34°41'13"W	33°34'44"
C3	45.00'	32.42'	16.95'	31.72'	N2°44'28"E	41°16'36"
C4	45.00'	30.32'	15.76'	29.75'	N42°41'02"E	38°36'33"
C5	45.00'	15.09'	7.62'	15.02'	N71°35'47"E	19°12'57"

CURVE TABLE						
CURVE	RADIUS	LENGTH	TANGENT	CHORD	BEARING	DELTA
C6	45.00'	15.23'	7.69'	15.16'	S89°05'56"E	19°23'36"
C7	45.00'	30.32'	15.76'	29.75'	S60°05'52"E	38°36'33"
C8	45.00'	32.39'	16.93'	31.69'	S20°10'26"E	41°14'18"
C9	45.00'	26.26'	13.52'	25.89'	S17°09'54"W	33°26'23"
C10	28.00'	65.65'	66.51'	51.61'	N33°17'00"W	134°20'12"

CURVE TABLE						
CURVE	RADIUS	LENGTH	TANGENT	CHORD	BEARING	DELTA
C11	30.00'	47.63'	30.51'	42.78'	S44°28'48"W	90°58'00"
C12	30.00'	46.62'	29.50'	42.07'	N45°31'12"W	89°02'00"
C13	40.00'	34.06'	18.14'	33.04'	N23°23'30"E	48°47'23"
C14	45.00'	20.49'	10.43'	20.32'	S34°44'25"W	26°05'34"
C15	45.00'	38.67'	20.62'	37.49'	S2°55'35"E	49°14'26"
C16	45.00'	32.71'	17.12'	31.99'	S48°22'15"E	41°38'53"

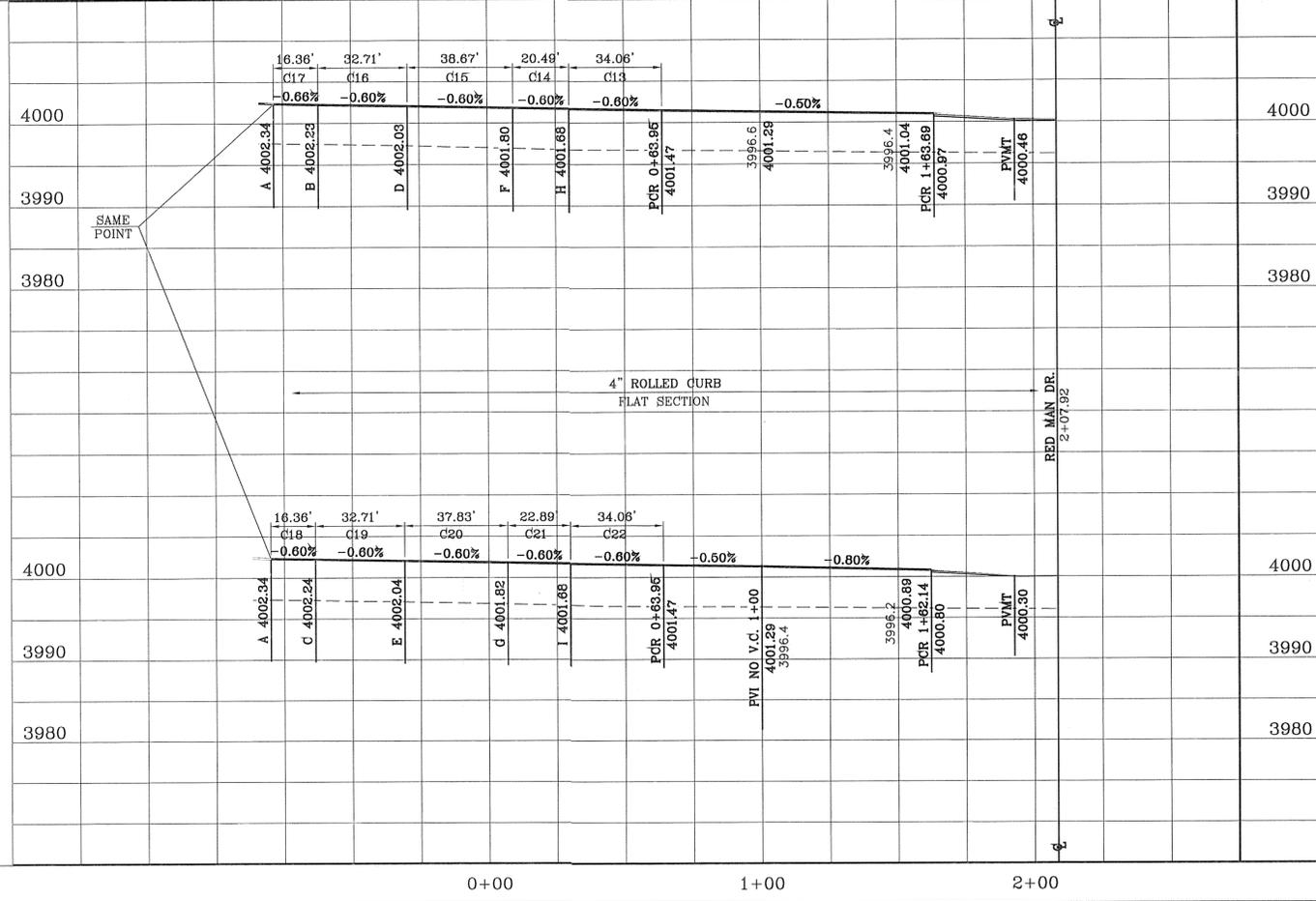
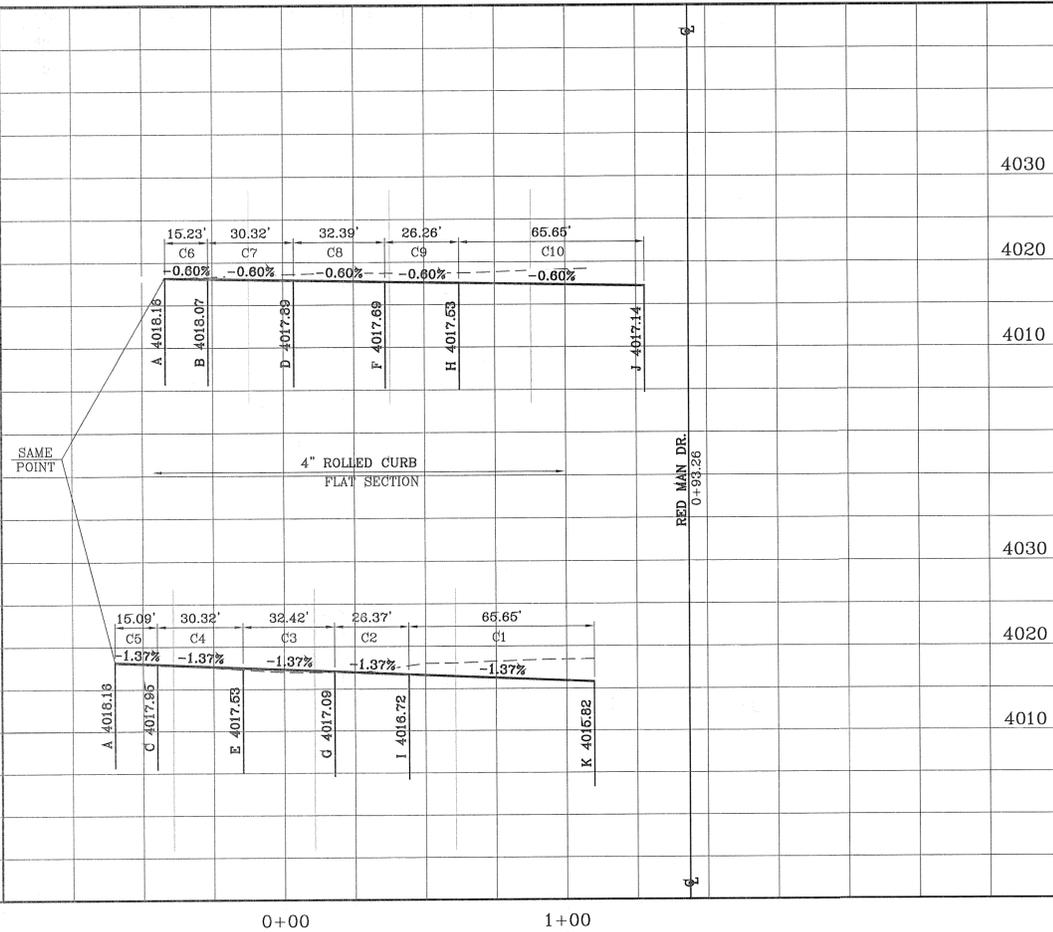
CURVE TABLE						
CURVE	RADIUS	LENGTH	TANGENT	CHORD	BEARING	DELTA
C17	45.00'	16.36'	8.27'	16.27'	S79°36'25"E	20°49'27"
C18	45.00'	16.36'	8.27'	16.27'	N79°34'09"E	20°49'27"
C19	45.00'	32.71'	17.12'	31.99'	N48°19'59"E	41°38'53"
C20	45.00'	37.83'	20.11'	36.72'	N3°25'43"E	48°09'39"
C21	45.00'	22.89'	11.70'	22.64'	N35°13'21"W	29°08'28"
C22	40.00'	34.06'	18.14'	33.04'	S25°23'53"E	48°47'23"



CITY DEVELOPMENT DEPARTMENT  
REVIEWED

NOTE:  
ALL WHEELCHAIR RAMPS  
TO BE BY DEVELOPER

FILE: S:\Subdivisions\VESQUITE HILLS 7\DWG\PP-BUCKSHOT-FOX RUN PLOTTED Thursday, May 01, 2014 4:46:39 PM



BENCHMARK  
CITY MONUMENT AT THE CENTERLINE INTERSECTION OF  
COPPER CANYON DRIVE AND COPPER MINE LANE.  
ELEVATION 4007.42  
BY: ..... CITY DATUM  
REVISIONS  
DATE 04/19/13  
2ND SET OF CITY COMMENTS  
R.R.

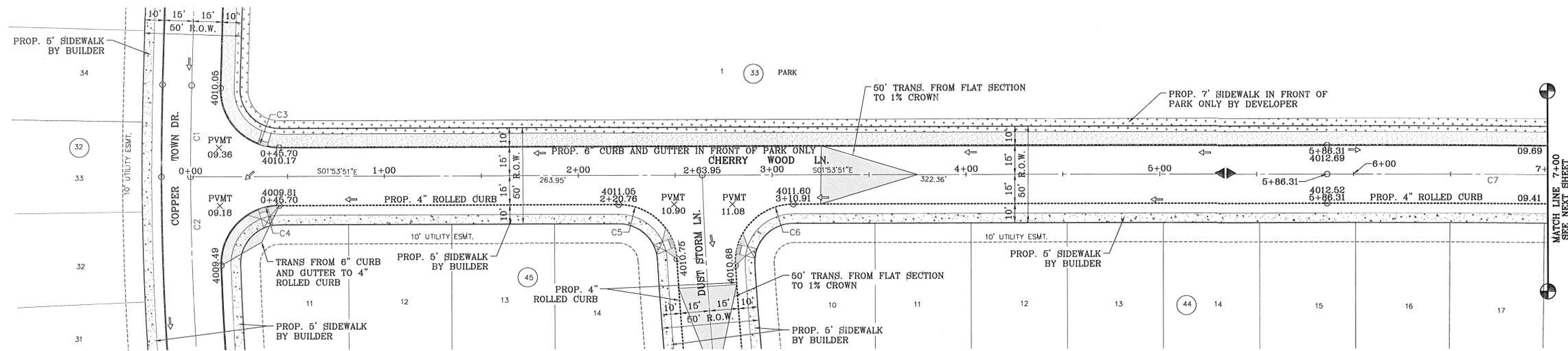
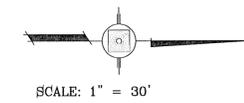
PROJECT NAME  
**MESQUITE HILLS UNIT SEVEN**  
BEING PORTION OF TRACTS 5 AND 6, SECTION 16, BLOCK  
80, TOWNSHIP 1, TEXAS AND PACIFIC RAILROAD CO.  
SURVEYS, CITY OF EL PASO, EL PASO COUNTY, TEXAS  
CONTAINING: 108.78 ACRES

SCALE  
HORIZ: 1" = 30'  
VERT: 1" = 10'  
DATE: DEC. 2012  
DESIGN BY: YC  
INITIATED BY: RR  
CHECKED BY: YC & FC  
JOB NO.: 612-24

ENGINEER'S SEAL  
CONDE INC.  
ENGINEERING / PLANNING  
SURVEYING / GPS  
6080 SURETY DR. STE 100  
EL PASO, TEXAS 79905  
PHONE: (915) 592-0283  
FAX: (915) 592-0286

SHEET TITLE  
**STREET  
PLAN - PROFILE  
FOX RUN  
WAY /  
BUCKSHOT  
PL.  
IN THEIR  
ENTIRETY**  
SHT 21 OF 80  
MESQUITE HILLS UNIT SEVEN

CURVE TABLE						
CURVE	RADIUS	LENGTH	TANGENT	CHORD	BEARING	DELTA
C1	1500.00'	47.41'	23.71'	47.41'	N89°00'29"E	1'48'39"
C2	1500.00'	488.41'	246.39'	486.26'	N78°46'28"E	18°39'21"
C3	30.00'	48.07'	30.96'	43.09'	N44°00'29"E	91°48'39"
C4	30.00'	48.05'	30.94'	43.08'	S47°47'01"E	91°46'20"
C5	30.00'	45.47'	28.39'	41.24'	S41°31'12"W	86°50'07"
C6	30.00'	48.88'	31.81'	43.65'	S48°34'41"E	93°21'39"



CITY DEVELOPMENT DEPARTMENT  
**REVIEWED**

**NOTE:**  
ALL WHEELCHAIR RAMP  
TO BE BY DEVELOPER

BENCHMARK	CITY MONUMENT AT THE CENTERLINE INTERSECTION OF COPPER CANYON DRIVE AND COPPER MINE LANE ELEVATION 4007.42
DATE	04/19/13
REVISIONS	
BY	
R.R.	2ND SET OF CITY COMMENTS

**PROJECT NAME**  
MESQUITE HILLS UNIT SEVEN  
BEING PORTION OF TRACTS 5 AND 6, SECTION 16, BLOCK 80, TOWNSHIP 04 NORTH AND RANGE 01 WEST, COUNTY, TEXAS SURVEYS, CONTAINING: 108.78 ACRES

**SCALE**  
HORIZ: 1" = 30'  
VERT: 1" = 10'

DATE: DEC. 2012  
DESIGN BY: YC  
INITIATED BY: RR  
CHECKED BY: YC & FC  
JOB NO.: 512-24

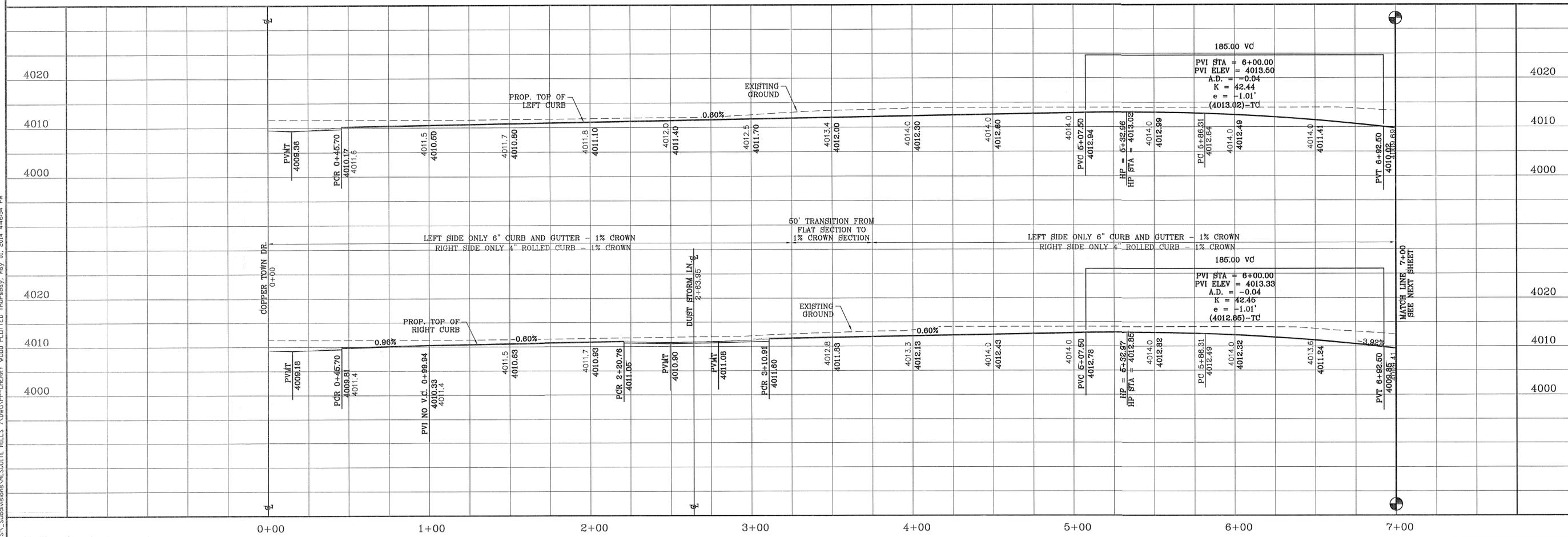


**CONDE INC.**  
ENGINEERING / PLANNING  
SURVEYING / GPS  
6080 SURETY DR. STE 100  
EL PASO, TEXAS 79905  
PHONE: (915) 592-0283  
FAX: (915) 592-0286



**SHEET TITLE**  
STREET  
PLAN-PROFILE  
**CHERRY  
WOOD LN.**  
STA: 0+00  
TO  
STA: 7+00

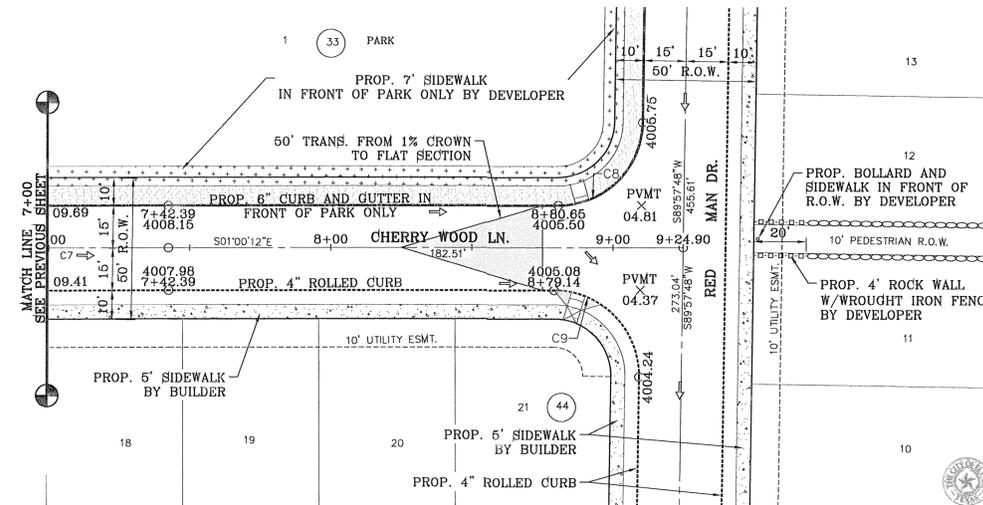
FILE: S:\Subdivisions\MESQUITE HILLS 7\DWG\PP-CHERRY WOOD PLOTTED Thursday, Nov 01, 2014 4:45:54 PM



FILE S:\\_Subdivisions\MESQUITE HILLS 7\DWG\PP-CHERRY WOOD PLOTTED Thursday, May 01, 2014 4:47:00 PM

CURVE TABLE						
CURVE	RADIUS	LENGTH	TANGENT	CHORD	BEARING	DELTA
C7	10000.00'	156.08'	78.04'	156.08'	S1°27'01"E	0°53'39"
C8	30.00'	46.62'	29.50'	42.07'	N45°31'12"W	89°02'00"
C9	30.00'	47.63'	30.51'	42.78'	S44°28'48"W	90°58'00"

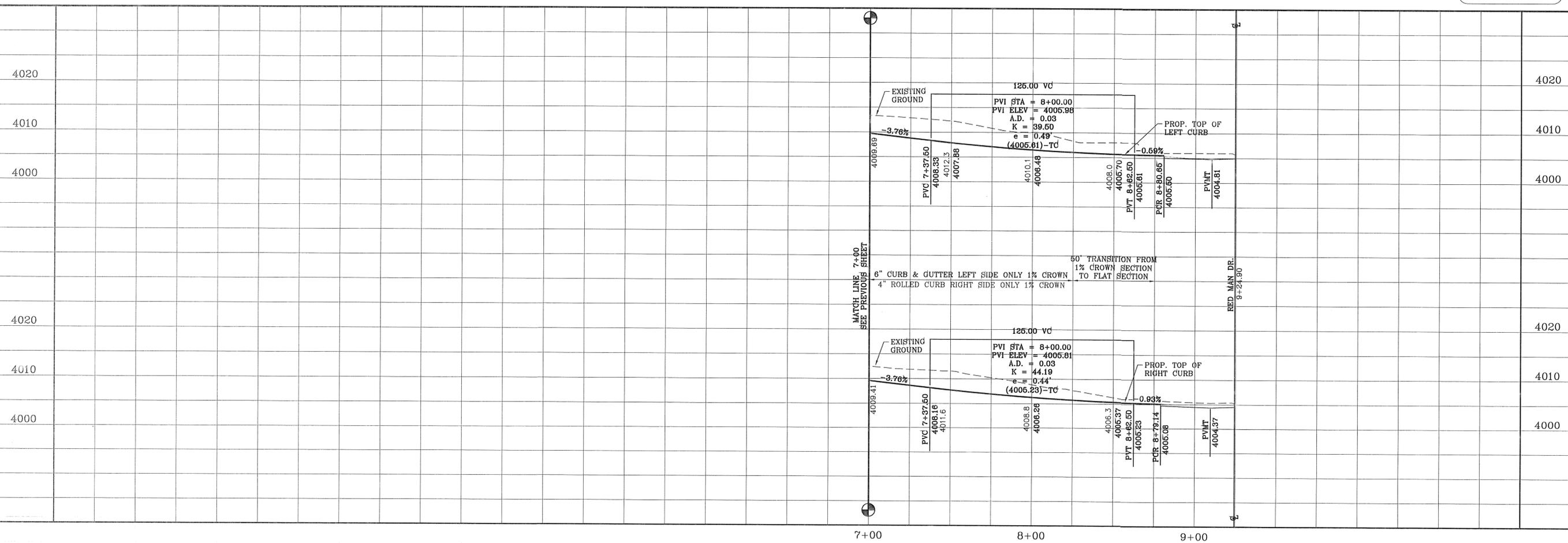
SCALE: 1" = 30'



CITY DEVELOPMENT DEPARTMENT

REVIEWED

NOTE:  
ALL WHEELCHAIR RAMPS  
TO BE BY DEVELOPER



BENCHMARK	
CITY MONUMENT AT THE CENTERLINE INTERSECTION OF COPPER CANYON DRIVE AND COPPER MINE LANE	ELEVATION 4007.42
DATE	04/19/13
BY	REVISIONS
BY	2ND SET OF CITY COMMENTS
R.R.	

PROJECT NAME  
**MESQUITE HILLS UNIT SEVEN**  
BEING PORTION OF TRACTS 5 AND 6 SECTION 16, BLOCK 80, TOWNSHIP 1, TEXAS AND PACIFIC RAILROAD SURVEYS, CITY OF EL PASO, EL PASO COUNTY, TEXAS CONTAINING: 108.78 ACRES

SCALE  
HORIZ: 1" = 30'  
VERT: 1" = 10'  
DATE: DEC. 2012  
DESIGN BY: YC  
INITIATED BY: RR  
CHECKED BY: YC & JC  
JOB NO.: 612-24



**CONDE INC.**  
ENGINEERING / PLANNING  
SURVEYING / GPS  
6080 SUBBURY DR STE 100  
EL PASO, TEXAS 79905  
PHONE: (915) 592-0283  
FAX: (915) 592-0286

SHEET TITLE  
**CHERRY WOOD LN.**  
STA: 7+00  
TO  
STA: 9+24.90

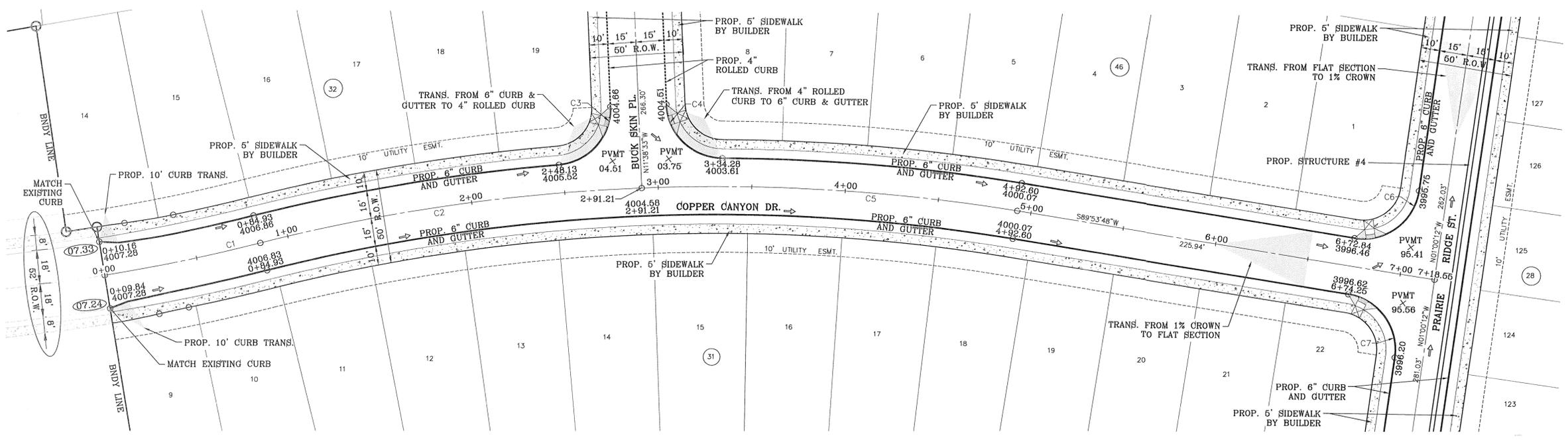
FILE S:\Subdivisions\MESQUITE HILLS 74DVCV-PP-COPPER CANYON PLATTED Thursday, May 01, 2014 4:47:14 PM

CURVE TABLE						
CURVE	RADIUS	LENGTH	TANGENT	CHORD	BEARING	DELTA
C1	1000.00'	84.93'	42.49'	84.91'	N68°58'19"E	4°51'59"
C2	1000.00'	206.27'	103.50'	205.91'	S72°26'54"W	11°49'07"
C3	30.00'	45.83'	28.73'	41.50'	N32°07'24"E	87°31'55"
C4	30.00'	45.83'	28.73'	41.50'	S55°24'31"E	87°31'55"

CURVE TABLE						
CURVE	RADIUS	LENGTH	TANGENT	CHORD	BEARING	DELTA
C5	1000.00'	201.40'	101.04'	201.06'	S84°07'38"W	11°32'21"
C6	30.00'	47.60'	30.47'	42.76'	N44°26'48"E	90°54'00"
C7	30.00'	46.65'	29.53'	42.09'	N45°33'12"W	89°06'00"



SCALE: 1" = 30'



DENOTES AS BUILT CONDITION



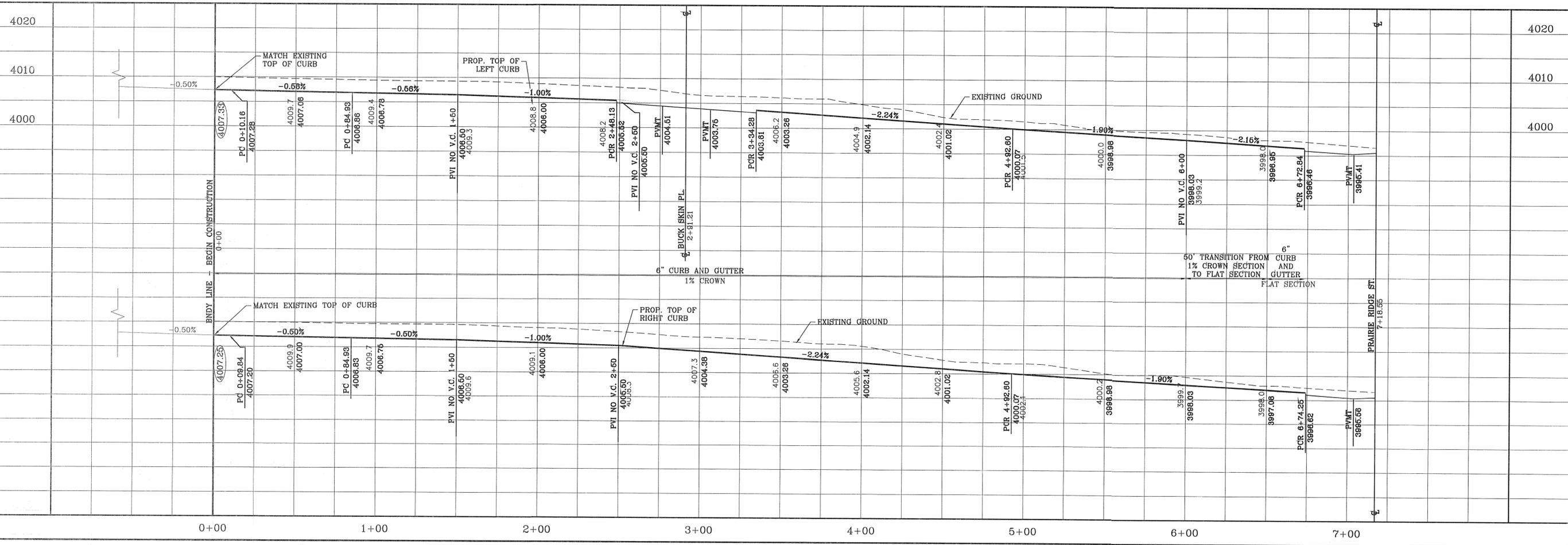
REVIEWED

NOTE: ALL WHEELCHAIR RAMPS TO BE BY DEVELOPER

BENCHMARK CITY MONUMENT AT THE CENTERLINE INTERSECTION OF COPPER CANYON DRIVE AND COPPER MINE LANE ELEVATION 4007.42 CITY DATUM

DATE	REVISIONS	BY	R.R.
04/19/13	2ND SET OF CITY COMMENTS		

**MESQUITE HILLS UNIT SEVEN**  
 BEING PORTION OF TRACTS 5 AND 6, SECTION 16, BLOCK 80, TOWNSHIP 1, TEXAS AND PACIFIC RAILROAD CO. SURVEYS, CITY OF EL PASO, EL PASO COUNTY, TEXAS CONTAINING: 108.78 ACRES



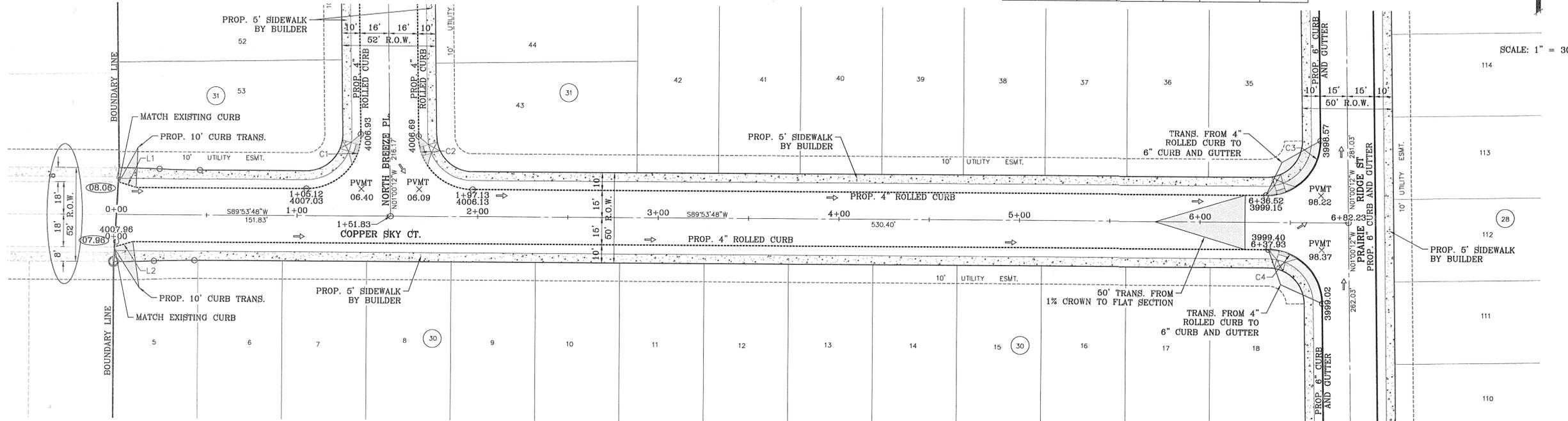
SCALE  
 HORIZ: 1" = 30'  
 VERT: 1" = 10'  
 DATE: DEC. 2012  
 DESIGN BY: YC  
 INITIATED BY: RR  
 CHECKED BY: YC & FC  
 JOB NO.: 512-24

**CONDE INC.**  
 ENGINEERING / PLANNING  
 SURVEYING / GPS  
 6080 SUPREMY DR. STE 100  
 EL PASO, TEXAS 79905  
 PHONE: (915) 592-0283  
 FAX: (915) 592-0286



SHEET TITLE  
**COPPER CANYON DR.**  
 STA: 0+00  
 TO  
 STA: 7+18.55

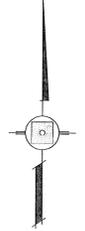
FILE S:\Subdivisions\MESQUITE HILLS 7\DWG\PP-COPPER SKY PLATTED Thursday, May 01, 2014 4:47:27 PM



LINE TABLE		
LINE	LENGTH	BEARING
L1	44.811	S86°15'52.37"E
L2	44.811	N86°03'28.81"E

CURVE TABLE						
CURVE	RADIUS	LENGTH	TANGENT	CHORD	BEARING	DELTA
C1	30.00'	47.60'	30.47'	42.76'	N44°26'48"E	90°54'00"
C2	30.00'	46.65'	29.53'	42.09'	S45°33'12"E	89°06'00"
C3	30.00'	47.60'	30.47'	42.76'	N44°26'48"E	90°54'00"
C4	30.00'	46.65'	29.53'	42.09'	N45°33'12"W	89°06'00"

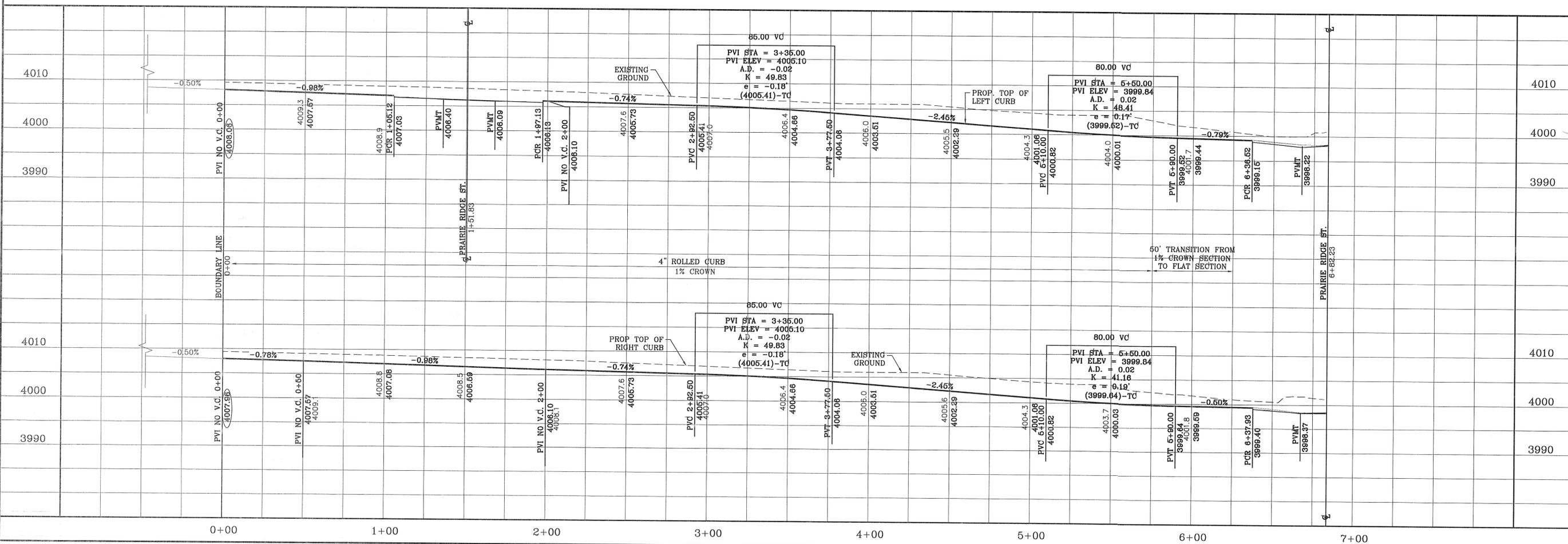
SCALE: 1" = 30'



DENOTES AS BUILT CONDITION

CITY DEVELOPMENT DEPARTMENT  
REVIEWED

NOTE:  
ALL WHEELCHAIR RAMPS  
TO BE BY DEVELOPER



BENCHMARK	CITY MONUMENT AT THE CENTERLINE INTERSECTION OF COPPER CANYON DRIVE AND COPPER MINE LANE. ELEVATION 4007.42	CITY DATUM
BY	DATE	REVISIONS
	04/19/13	2ND SET OF CITY COMMENTS
		R.R.

PROJECT NAME  
**MESQUITE HILLS UNIT SEVEN**  
BEING PORTION OF TRACTS 5 AND 6, SECTION 16, BLOCK 80, TOWNSHIP 1, TEXAS AND PACIFIC RAILROAD CO. SURVEYS, CITY OF EL PASO, EL PASO COUNTY, TEXAS CONTAINING: 108.78 ACRES

SCALE	HORIZ. 1" = 30' VERT. 1" = 10'
DATE	DEC. 2012
DESIGN BY	YC
INITIATED BY	RR
CHECKED BY	YC & TC
JOB NO.	612-24

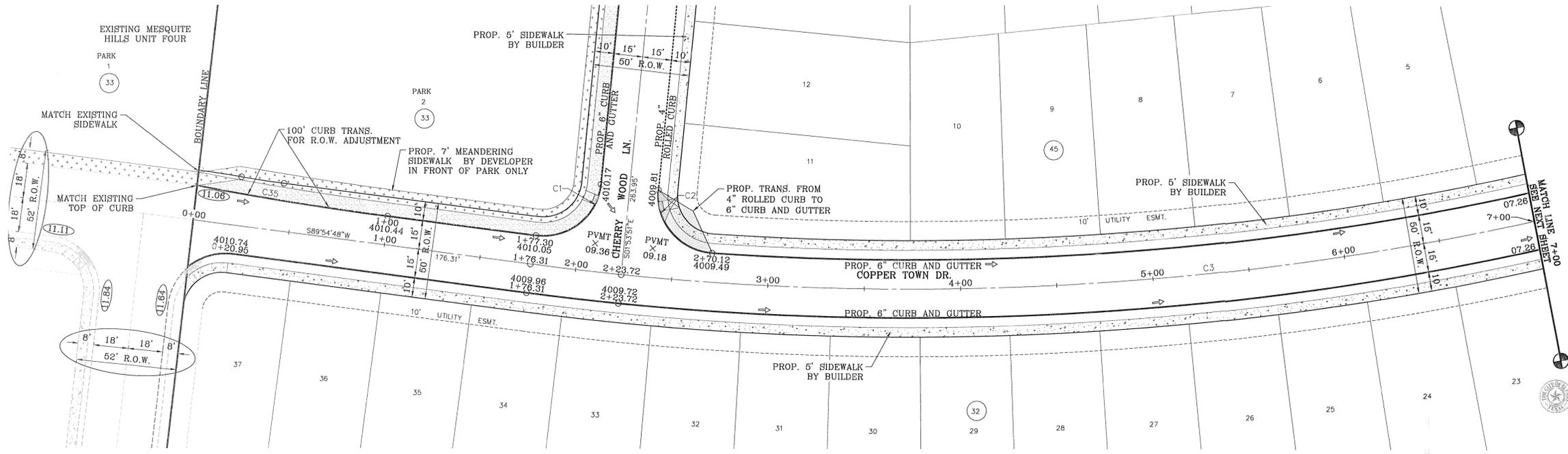
ENGINEER'S SEAL  
CONDE INC.  
ENGINEERING / PLANNING  
SURVEYING / GPS  
6080 SURETY DR. STE 100  
EL PASO, TEXAS 79905  
PHONE: (915) 592-0283  
FAX: (915) 592-0286

SHEET TITLE  
**COPPER SKY CT. IN ITS ENTIRETY**

LINE TABLE		
LINE	LENGTH	BEARING
L1	44.683	S86°14'12.81"E

CURVE TABLE						
CURVE	RADIUS	LENGTH	TANGENT	CHORD	BEARING	DELTA
C1	30.00'	48.07'	30.96'	43.09'	N44°00'29"E	91°48'39"
C2	30.00'	48.05'	30.94'	43.08'	S47°47'01"E	91°46'20"
C3	1500.00'	488.41'	246.39'	486.26'	N78°46'28"E	18°39'21"
C3S	1696.24'	100.35'	50.19'	100.34'	S88°22'24"E	3°23'23"

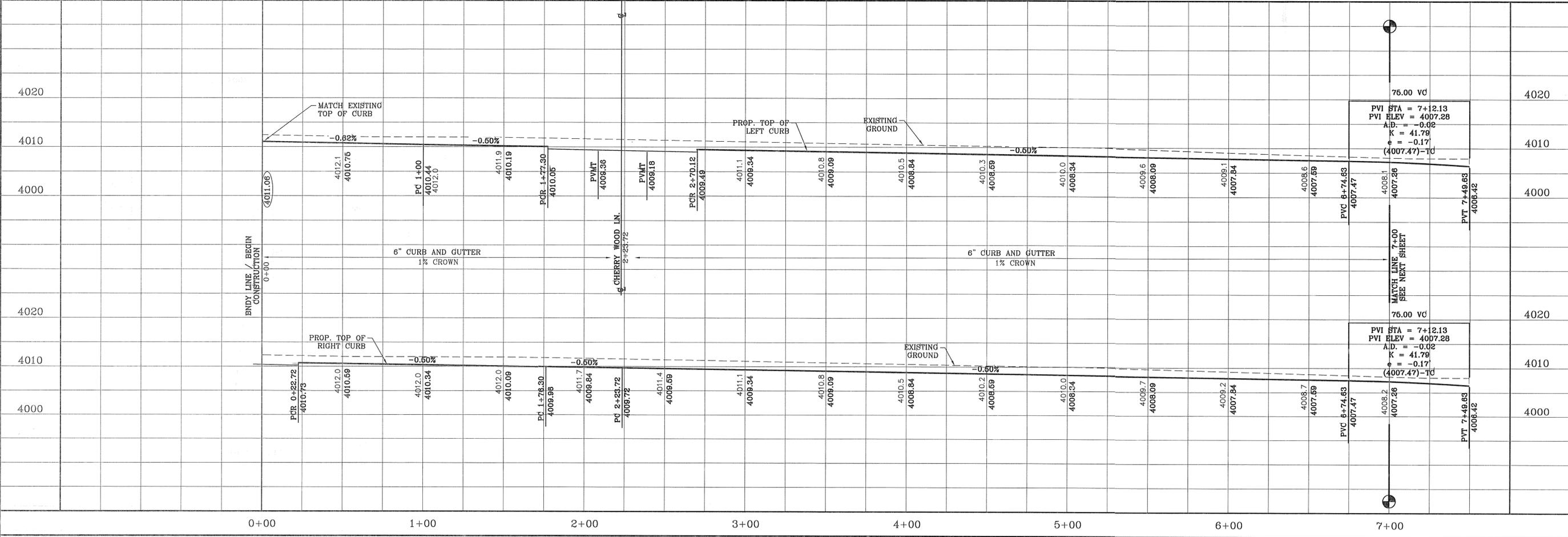
SCALE: 1" = 30'



DENOTES AS BUILT CONDITION

NOTE:  
ALL WHEELCHAIR RAMP TO BE BY DEVELOPER

CITY DEVELOPMENT DEPARTMENT  
**REVIEWED**



**CONDE INC.**  
ENGINEERING / PLANNING  
SURVEYING / GPS  
6090 SURVEY DR. STE. 100  
EL PASO, TEXAS 79905  
PHONE: (915) 592-0283  
FAX: (915) 592-0286

**PROJECT NAME**  
MESQUITE HILLS UNIT SEVEN  
BEING PORTION OF TRACTS 5 AND 6, SECTION 16, BLOCK 80, TOWNSHIP 1, TEXAS AND PACIFIC RAILROAD CO. SURVEYS, CITY OF EL PASO, EL PASO COUNTY, TEXAS  
CONTAINING: 108.78 ACRES

**ENGINEER'S SEAL**  
[Professional Seal]

**REVISIONS**

DATE	BY	REVISIONS
04/19/13	2ND SET OF CITY COMMENTS	
05/16/13	CITY REDLINES AS PER 05/16/13 COMMENTS	

**BENCHMARK**  
CITY MONUMENT AT THE CENTERLINE INTERSECTION OF COPPER CANYON DRIVE AND COPPER MINE LANE. ELEVATION 4007.42 ..... CITY DATUM

**SCALE**  
HORIZ: 1" = 30'  
VERT: 1" = 10'  
DATE: DEC. 2012  
DESIGN BY: YC  
INITIATED BY: RR  
CHECKED BY: YC & FC  
JOB NO.: 512-24

**SHEET TITLE**  
STREET  
PLAN-PROFILE  
**COPPER TOWN DR.**  
STA: 0+00  
TO  
STA: 7+00

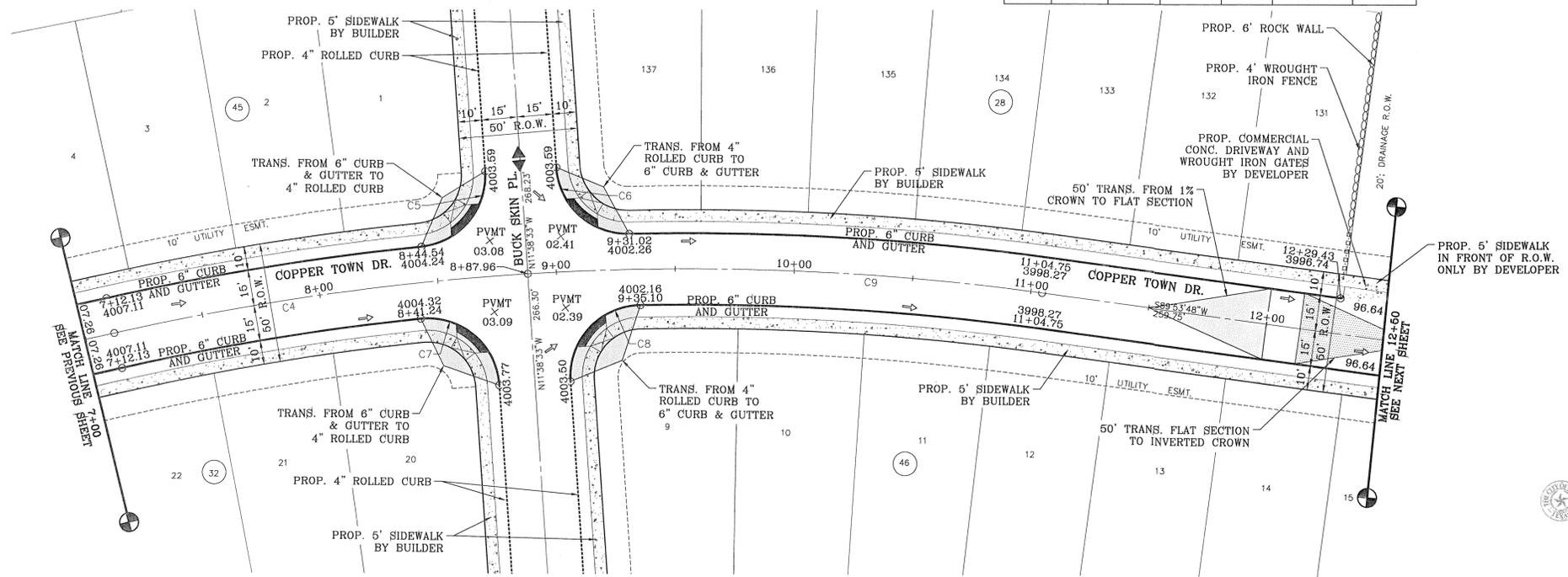
**SHT 26 OF 80**

FILE: S:\Subdivisions\MESQUITE HILLS 7-DWG\PP-COPPER TOWN PLOTTED Thursday, May 01, 2014 4:47:46 PM

CURVE	RADIUS	LENGTH	TANGENT	CHORD	BEARING	DELTA
C4	1100.00'	175.83'	88.10'	175.64'	S74°01'33"W	9°09'30"
C5	30.00'	46.07'	28.96'	41.67'	N32°21'01"E	87°59'08"
C6	30.00'	45.82'	28.72'	41.49'	S55°23'51"E	87°30'35"
C7	30.00'	48.27'	31.17'	43.23'	N57°44'09"W	92°11'11"
C8	30.00'	48.54'	31.45'	43.42'	S34°42'32"W	92°42'11"
C9	1100.00'	216.79'	108.75'	216.44'	S84°15'03"W	11°17'30"



SCALE: 1" = 30'



CITY DEVELOPMENT DEPARTMENT  
**REVIEWED**

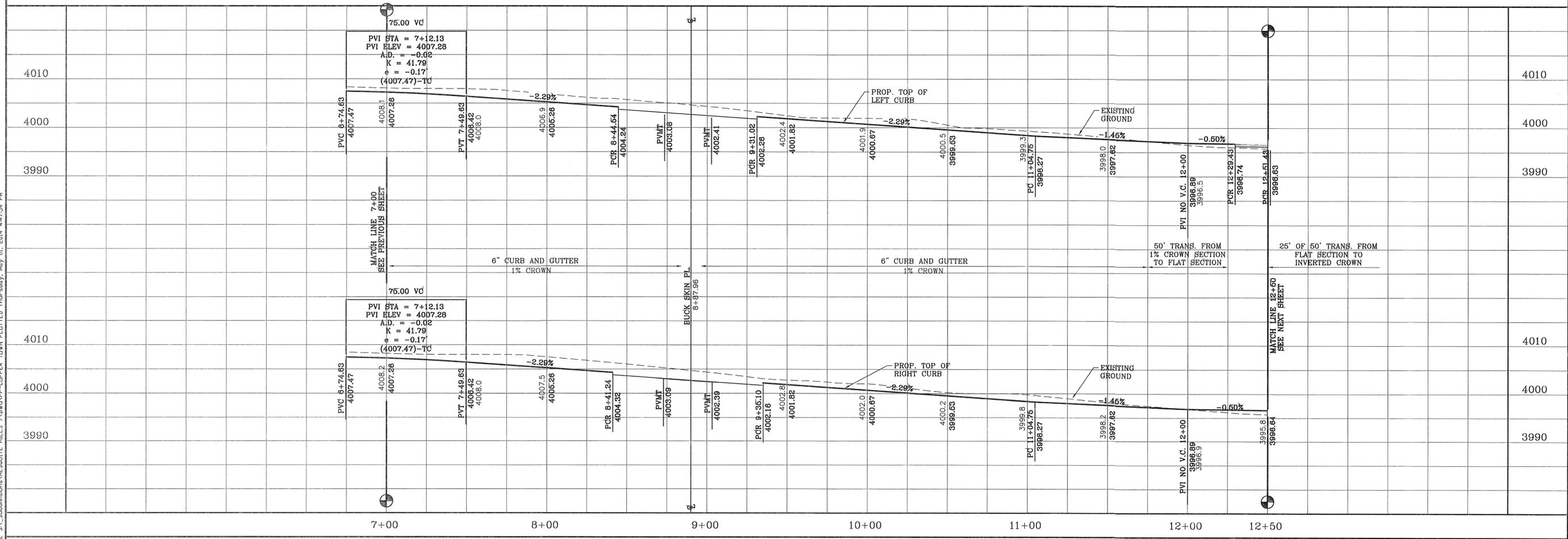
**NOTE:**  
ALL WHEELCHAIR RAMPS  
TO BE BY DEVELOPER

REVISIONS	DATE	BY	R.R.
	04/19/13		

BENCHMARK  
CITY MONUMENT AT THE CENTERLINE INTERSECTION OF  
COPPER CANYON DRIVE AND COPPER MINE LANE.  
ELEVATION 4007.42

PROJECT NAME  
**MESQUITE HILLS UNIT SEVEN**  
BEING PORTION OF TRACTS 5 AND 6, SECTION 16, BLOCK  
80, TOWNSHIP 1, TEXAS AND PACIFIC RAILROAD CO.  
SURVEYS, CITY OF EL PASO, EL PASO COUNTY, TEXAS  
CONTAINING: 106.76 ACRES

FILE: S:\Subdivisions\MESQUITE\_HILLS\_7\DWG\PP-COPPER\_TOWN\_PLOTTED\_Thursday, Nov 01, 2014 4:47:54 PM



SCALE  
HORIZ: 30'  
VERT: 10'

DATE: DEC. 2012  
DESIGN BY: YC  
INITIATED BY: RR  
CHECKED BY: YC & FC  
JOB NO.: 512-24



**CONDE INC.**  
ENGINEERING / PLANNING  
SURVEYING / GFS  
6080 SURETY DR. STE 100  
EL PASO, TEXAS 79905  
PHONE: (915) 592-0283  
FAX: (915) 592-0286

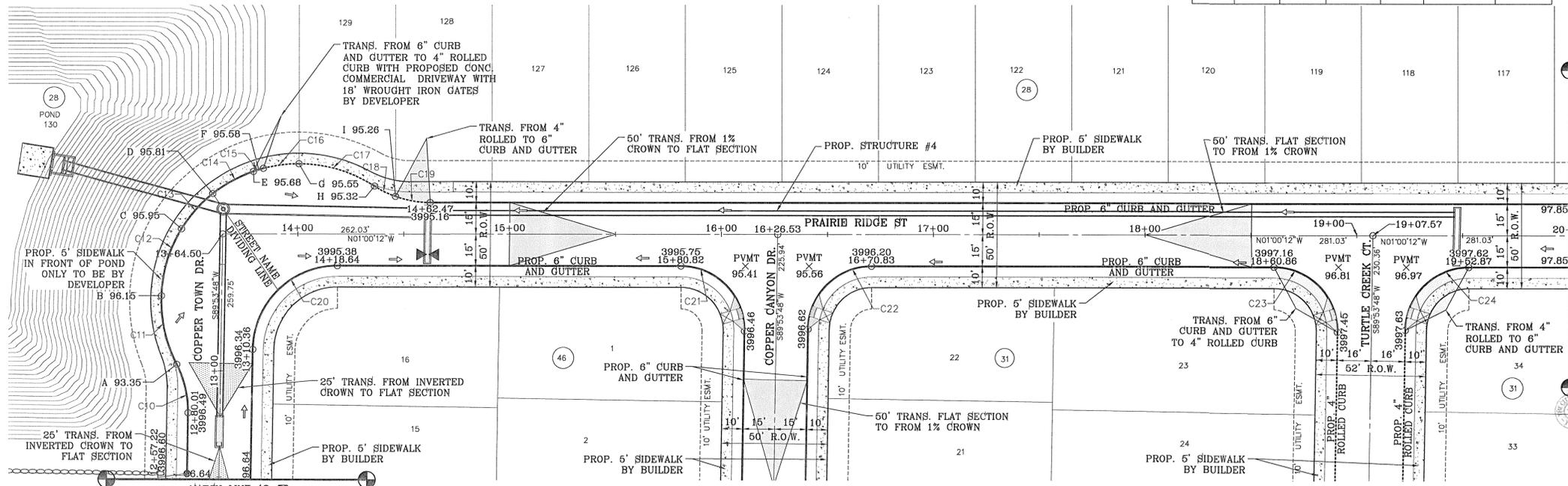
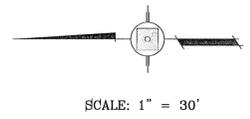


SHEET TITLE  
**STREET  
PLAN-PROFILE  
COPPER  
TOWN DR.  
STA: 7+00  
TO  
STA: 12+50**

FILE S:\\_Subdivisions\MESQUITE HILLS TOWNDRIVE\COPPER TOWN PLOTTED Thursday, May 01, 2014 4:48:05 PM

CURVE TABLE						
CURVE	RADIUS	LENGTH	TANGENT	CHORD	BEARING	DELTA
C10	48.00'	23.70'	12.10'	23.46'	N75°45'00"E	28°17'37"
C11	65.00'	33.39'	17.07'	33.02'	S76°19'08"W	29°25'52"
C12	65.00'	33.39'	17.07'	33.02'	N74°15'00"W	29°25'52"
C13	65.00'	22.44'	11.33'	22.32'	N49°38'46"W	19°46'36"
C14	65.00'	21.98'	11.10'	21.88'	N30°04'09"W	19°22'38"
C15	65.00'	5.00'	2.50'	5.00'	N18°10'34"W	4°24'31"
C16	65.00'	16.98'	8.54'	16.93'	N8°29'15"W	14°58'07"

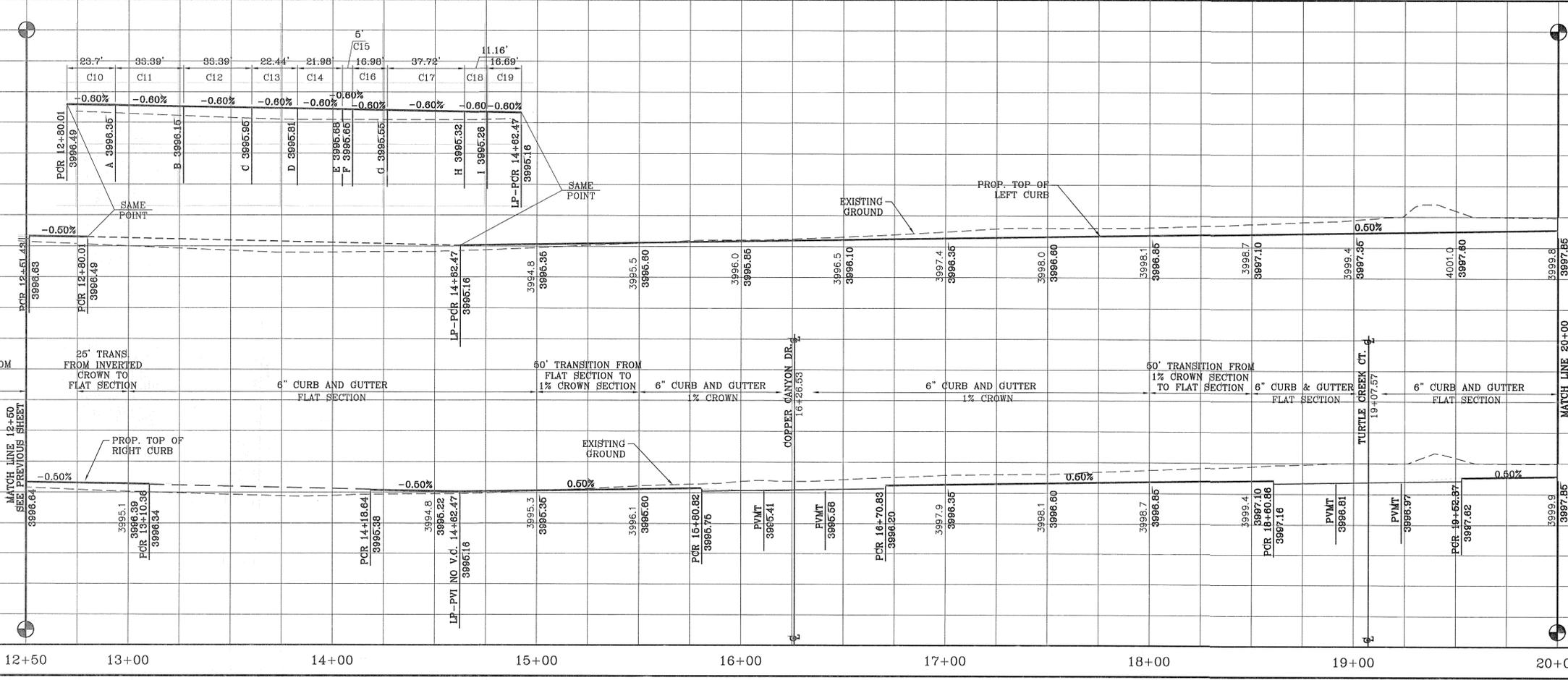
CURVE TABLE						
CURVE	RADIUS	LENGTH	TANGENT	CHORD	BEARING	DELTA
C17	65.00'	37.72'	19.41'	37.19'	N15°37'19"E	33°15'01"
C18	48.00'	11.16'	5.61'	11.14'	S25°35'03"W	13°19'32"
C19	48.00'	16.69'	8.43'	16.61'	S8°57'33"W	19°55'29"
C20	40.00'	62.20'	39.38'	56.12'	N45°33'12"W	89°06'00"
C21	30.00'	47.60'	30.47'	42.76'	N44°26'48"E	90°54'00"
C22	30.00'	46.65'	29.53'	42.09'	N45°33'12"W	89°06'00"
C23	30.00'	47.60'	30.47'	42.76'	N44°26'48"E	90°54'00"
C24	30.00'	46.65'	29.53'	42.09'	N45°33'12"W	89°06'00"



SEE SHEET 58 FOR DRAINAGE STRUCTURE #4

NOTE:  
ALL WHEELCHAIR RAMPS  
TO BE BY DEVELOPER

CITY DEVELOPMENT DEPARTMENT  
**REVIEWED**



BENCHMARK
CITY MONUMENT AT THE CENTERLINE INTERSECTION OF COPPER CANYON DRIVE AND COPPER HILLS DRIVE ELEVATION 4007.42
DATE
BY
REVISIONS
DATE
BY
04/19/13
2ND SET OF CITY COMMENTS
05/15/13
CITY REDLINES AS PER 05/15/13 COMMENTS
R.R.
R.R.

**MESQUITE HILLS UNIT SEVEN**  
BEING PORTION OF TRACTS 5 AND 6, SECTION 16, BLOCK 80, TOWNSHIP 1E, RANGE 13E, COUNTY OF TARRANT COUNTY, TEXAS SURVEYED BY: YC & FC CONTAINING: 108.76 ACRES

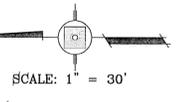
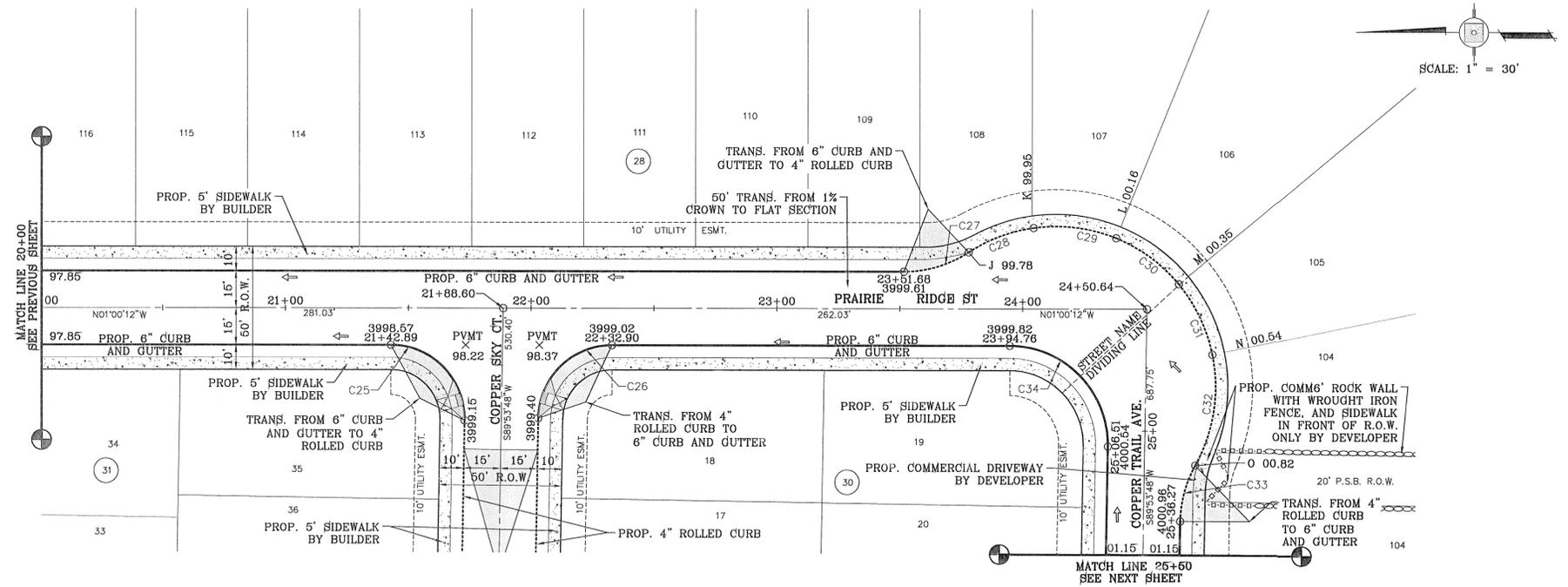
**CONDE INC.**  
ENGINEERING / PLANNING  
SURVEYING / GPS  
6060 SURETY DR. STE 100  
EL PASO, TEXAS 79905  
PHONE: (915) 592-0283  
FAX: (915) 592-0286

SHEET TITLE  
**STREET PLAN-PROFILE  
COPPER  
TOWN DR. /  
PRAIRIE  
RIDGE ST.  
STA: 12+50  
TO  
STA: 20+00**

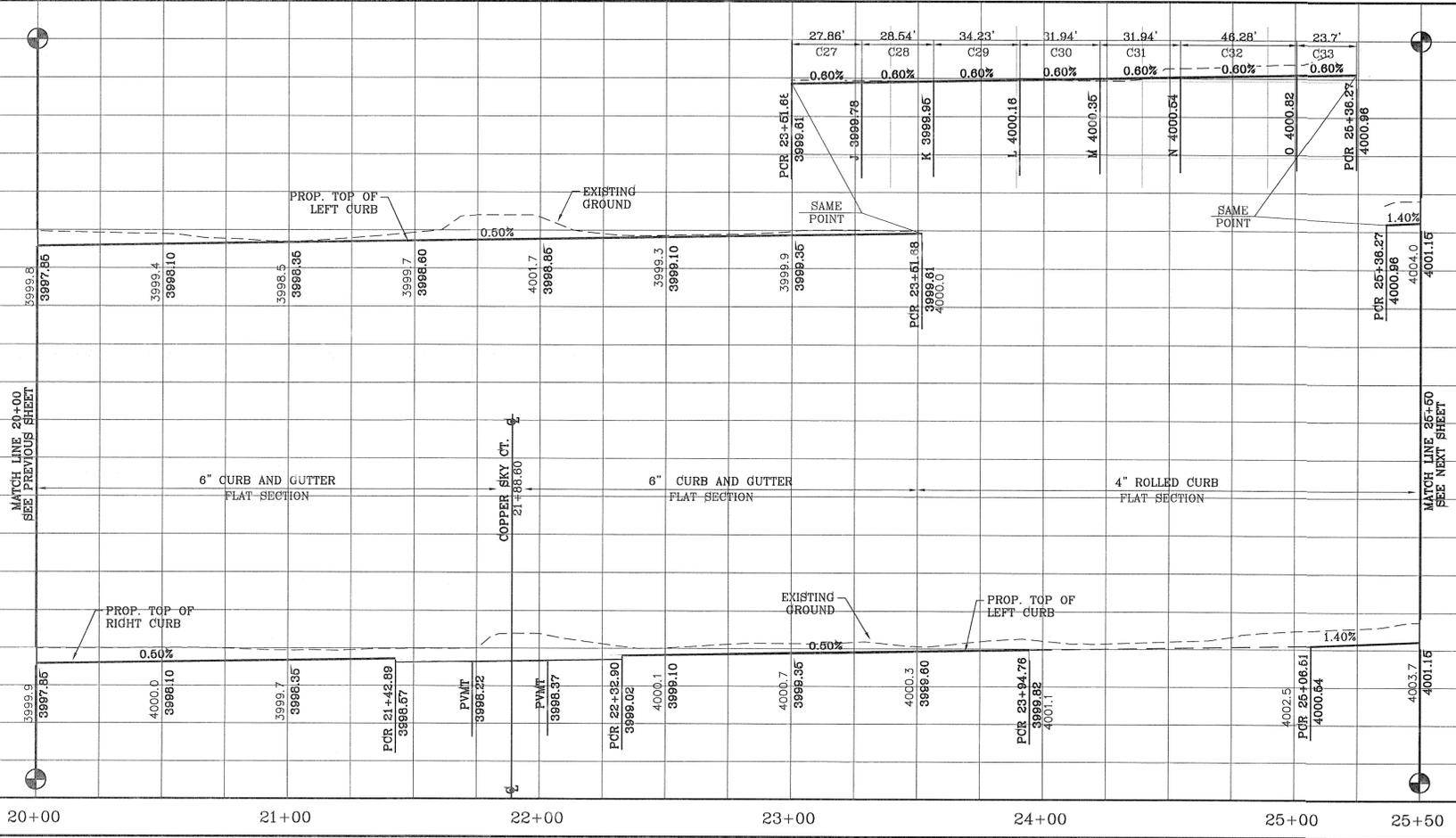
**SHT 28 OF 80**

CURVE TABLE						
CURVE	RADIUS	LENGTH	TANGENT	CHORD	BEARING	DELTA
C24	30.00'	46.65'	29.53'	42.09'	N45°33'12"W	89°06'00"
C25	30.00'	47.60'	30.47'	42.76'	N44°26'48"E	90°54'00"
C26	30.00'	46.65'	29.53'	42.09'	N45°33'12"W	89°06'00"
C27	48.00'	27.86'	14.33'	27.47'	S17°37'42"E	33°15'01"
C28	65.00'	28.54'	14.51'	28.32'	N21°40'23"W	25°09'39"
C29	65.00'	34.23'	17.52'	33.84'	N5°59'43"E	30°10'33"

CURVE TABLE						
CURVE	RADIUS	LENGTH	TANGENT	CHORD	BEARING	DELTA
C30	65.00'	31.94'	16.30'	31.62'	N35°09'38"E	28°09'18"
C31	65.00'	31.94'	16.30'	31.62'	N63°18'56"E	28°09'18"
C32	65.00'	46.28'	24.17'	45.31'	S82°12'30"E	40°47'49"
C33	48.00'	23.70'	12.10'	23.46'	N75°57'23"W	28°17'37"
C34	40.00'	63.46'	40.63'	57.01'	N44°26'48"E	90°54'00"



**NOTE:**  
ALL WHEELCHAIR RAMP'S  
TO BE BY DEVELOPER

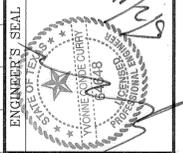


FILE: S:\Subdivisions\MESQUITE HILLS 7.DWG\VP-COPPER TOWN PLATTED Thursday, May 01, 2014 4:48:13 PM

BENCHMARK	
CITY MONUMENT AT THE CENTERLINE INTERSECTION OF COPPER CANYON DRIVE AND COPPER MINE LANE. ELEVATION 4007.42	CITY DATUM
DATE	REVISIONS
04/19/13	2ND SET OF CITY COMMENTS
BY	R.R.

**PROJECT NAME**  
MESQUITE HILLS UNIT SEVEN  
BEING PORTION OF TRACTS 5 AND 6, SECTION 16, BLOCK  
80, TOWNSHIP 1, TEXAS AND PACIFIC RAILROAD CO.  
SURVEYS, CITY OF EL PASO, EL PASO COUNTY, TEXAS  
CONTAINING: 108.78 ACRES

**SCALE**  
HORIZ: 1" = 30'  
VERT: 1" = 10'  
DATE: DEC. 2012  
DESIGN BY: YC  
INITIATED BY: RR  
CHECKED BY: YC & FC  
JOB NO.: 512-24

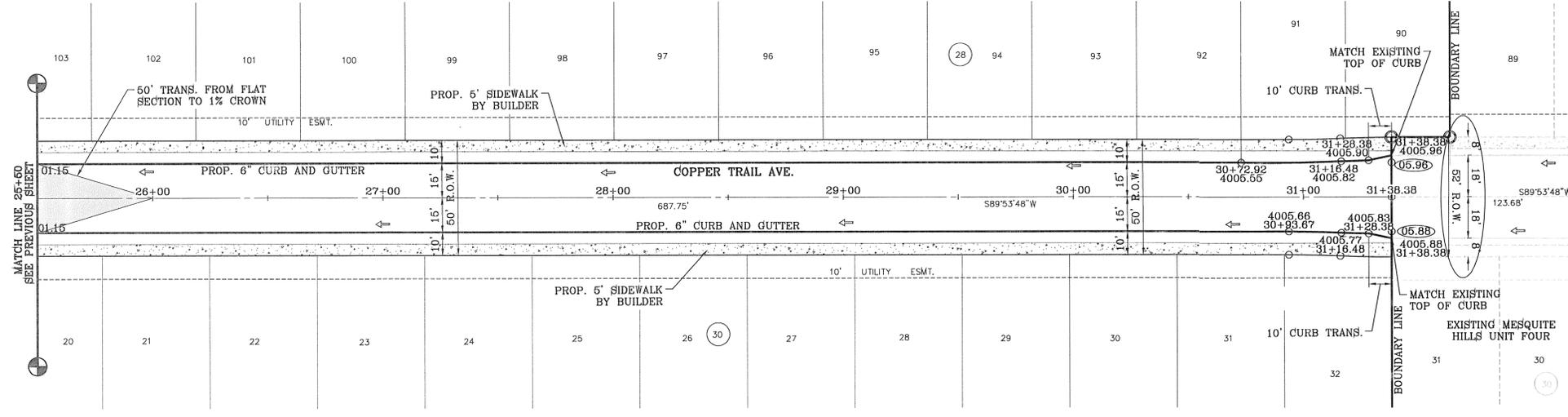


**CONDE INC.**  
ENGINEERING / PLANNING  
SURVEYING / GPS  
6080 SURETY DR. STE 100  
EL PASO, TEXAS 79905  
PHONE: (915) 592-0263  
FAX: (915) 592-0286

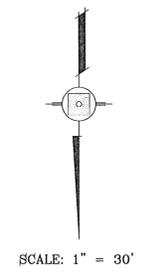


**SHEET TITLE**  
STREET  
PLAN-PROFILE  
**PRAIRIE  
RIDGE ST. /  
COPPER  
TRAIL AVE.**  
STA: 20+00  
TO  
STA: 25+50

FILE S:\Subdivisions\MESQUITE HILLS 7.DWG\PP-COPPER TOWN PLDITTED Thursday, May 01, 2014 4:48:21 PM



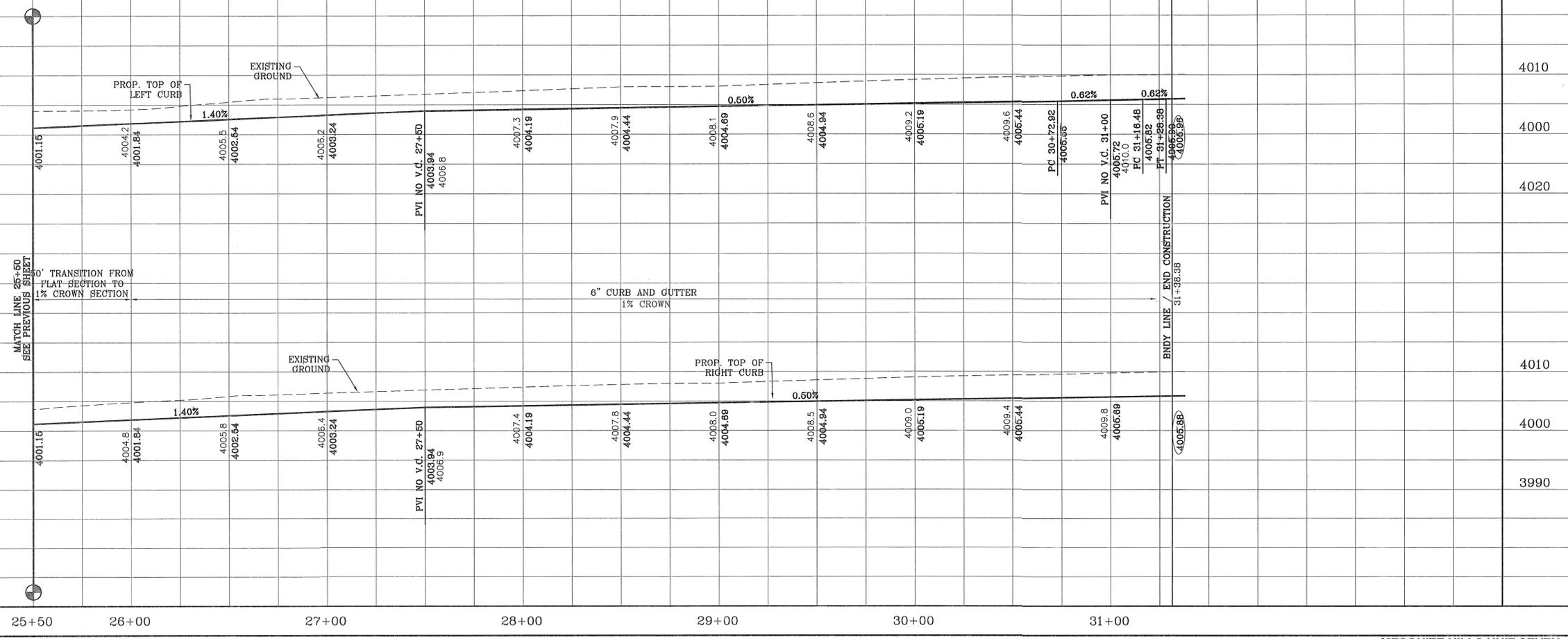
LINE TABLE		
LINE	LENGTH	BEARING
L2	44.811	S86°15'52.37"E
L3	65.535	S87°16'22.77"W



DENOTES AS BUILT CONDITION

NOTE:  
ALL WHEELCHAIR RAMPS  
TO BE BY DEVELOPER

CITY DEVELOPMENT DEPARTMENT  
**REVIEWED**



BENCHMARK

CITY MONUMENT AT THE CENTERLINE INTERSECTION OF COPPER CANYON DRIVE AND COPPER MINE LANE. ELEVATION 4007.42

DATE	REVISIONS	BY
02/10/13	CITY REDLINES AS PER 02-10-13 COMMENTS	R.R.
04/19/13	2ND SET OF CITY COMMENTS	R.R.

PROJECT NAME  
**MESQUITE HILLS UNIT SEVEN**  
BEING PORTION OF TRACTS 5 AND 6, SECTION 16, BLOCK 80, TOWNSHIP 1, TEXAS AND PACIFIC RAILROAD CO. SURVEYS, CITY OF EL PASO, EL PASO COUNTY, TEXAS CONTAINING: 108.78 ACRES

SCALE  
HORIZ: 1" = 30'  
VERT: 1" = 10'

DATE: DEC. 2012  
DESIGN BY: YC  
INITIATED BY: RR  
CHECKED BY: YC & FC  
JOB NO.: 512-24

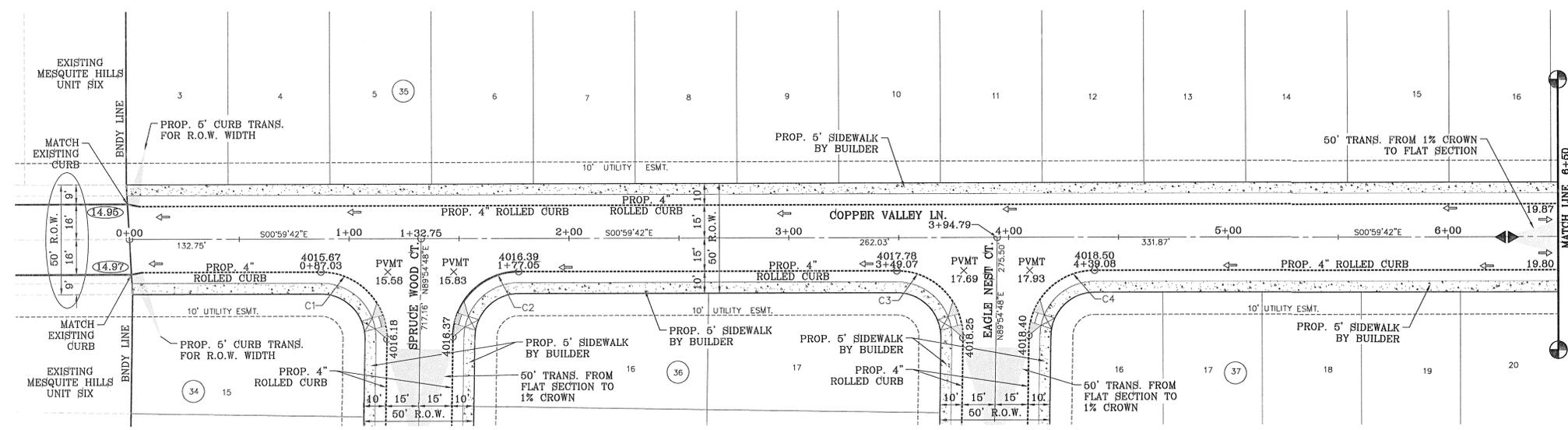
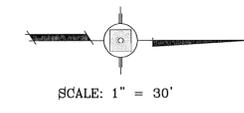


**CONDE INC.**  
ENGINEERING / PLANNING  
SURVEYING / GPS  
6080 SURETY DR, STE 100  
EL PASO, TEXAS 79905  
PHONE: (915) 592-0283  
FAX: (915) 592-0286



SHEET TITLE  
**STREET  
PLAN-PROFILE  
COPPER  
TRAIL AVE.  
TO  
STA: 25+50  
TO  
STA: 31+38.38**

CURVE TABLE						
CURVE	RADIUS	LENGTH	TANGENT	CHORD	BEARING	DELTA
C1	30.00'	47.60'	30.48'	42.76'	S44°27'33"W	90°54'30"
C2	30.00'	46.65'	29.53'	42.09'	S45°32'27"E	89°05'30"
C3	30.00'	47.60'	30.48'	42.76'	S44°27'33"W	90°54'30"
C4	30.00'	46.65'	29.53'	42.09'	S45°32'27"E	89°05'30"

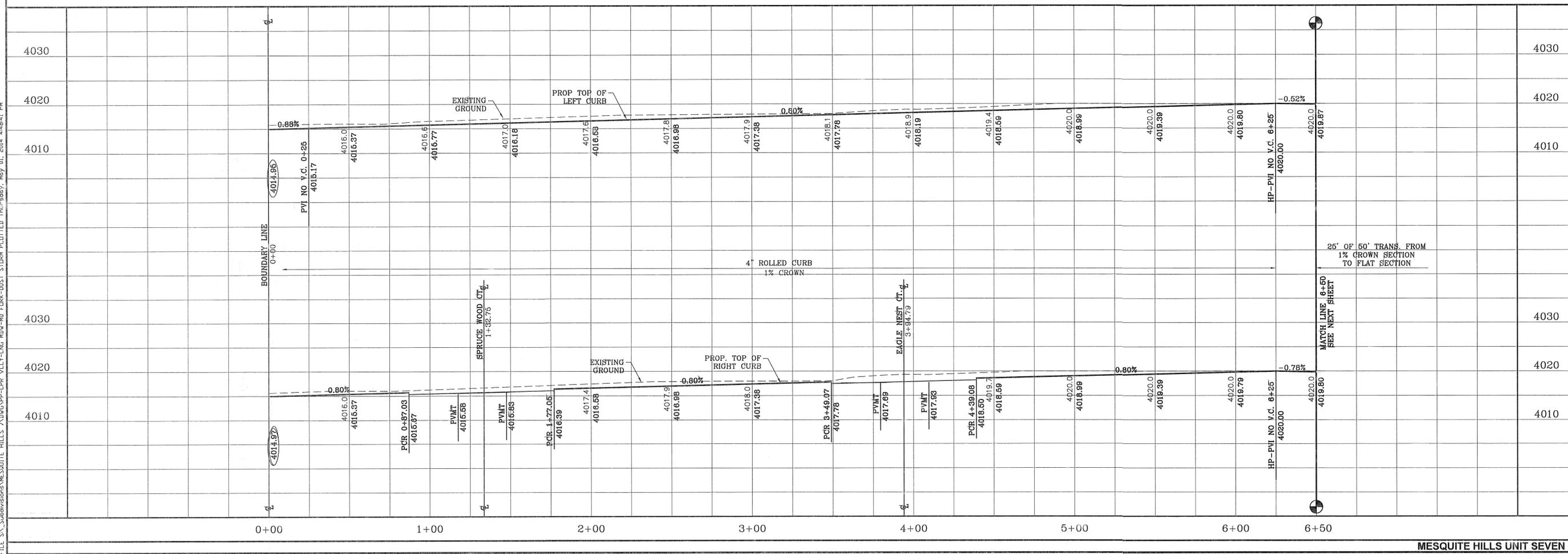


DENOTES AS BUILT CONDITION

NOTE:  
ALL WHEELCHAIR RAMP  
TO BE BY DEVELOPER

CITY DEVELOPMENT DEPARTMENT  
**REVIEWED**

FILE S:\\_Subdivisions\MESQUITE HILLS 7\DWG\PP-CR VLLY-LNG WDW-NB EDRK-DUST STDRM PLDITD Th...969; May 01, 2014 4:48:41 PM



BENCHMARK  
CITY MONUMENT AT THE CENTERLINE INTERSECTION OF  
COPPER VALLEY DRIVE AND COPPER MINE LANE  
ELEVATION 4007.42 ..... CITY DATUM

PROJECT NAME  
**MESQUITE HILLS UNIT SEVEN**  
BEING PORTION OF TRACTS 5 AND 6, SECTION 16, BLOCK  
80, TOWNSHIP 1, TEXAS AND PACIFIC RAILROAD CO.  
SURVEYS, CITY OF EL PASO, EL PASO COUNTY, TEXAS  
CONTAINING: 108.78 ACRES

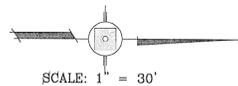
SCALE  
HORIZ: 1" = 30'  
VERT: 1" = 10'

DATE: DEC. 2012  
DESIGN BY: YC  
INITIATED BY: RR  
CHECKED BY: YC & FC  
JOB NO.: 512-24

CONDE INC.  
ENGINEERING / PLANNING  
SURVEYING / GPS  
6080 SURETY DR. STE 100  
EL PASO, TEXAS 79905  
PHONE: (915) 592-0263  
FAX: (915) 692-0288

SHEET TITLE  
STREET  
PLAN-PROFILE  
**COPPER  
VALLEY LN.**  
STA: 0+00  
TO  
STA: 6+50

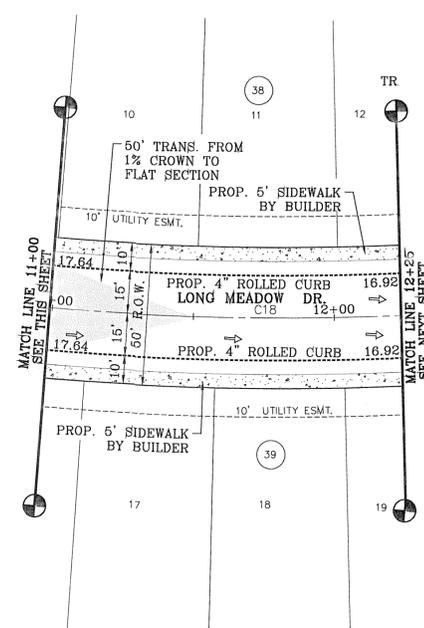
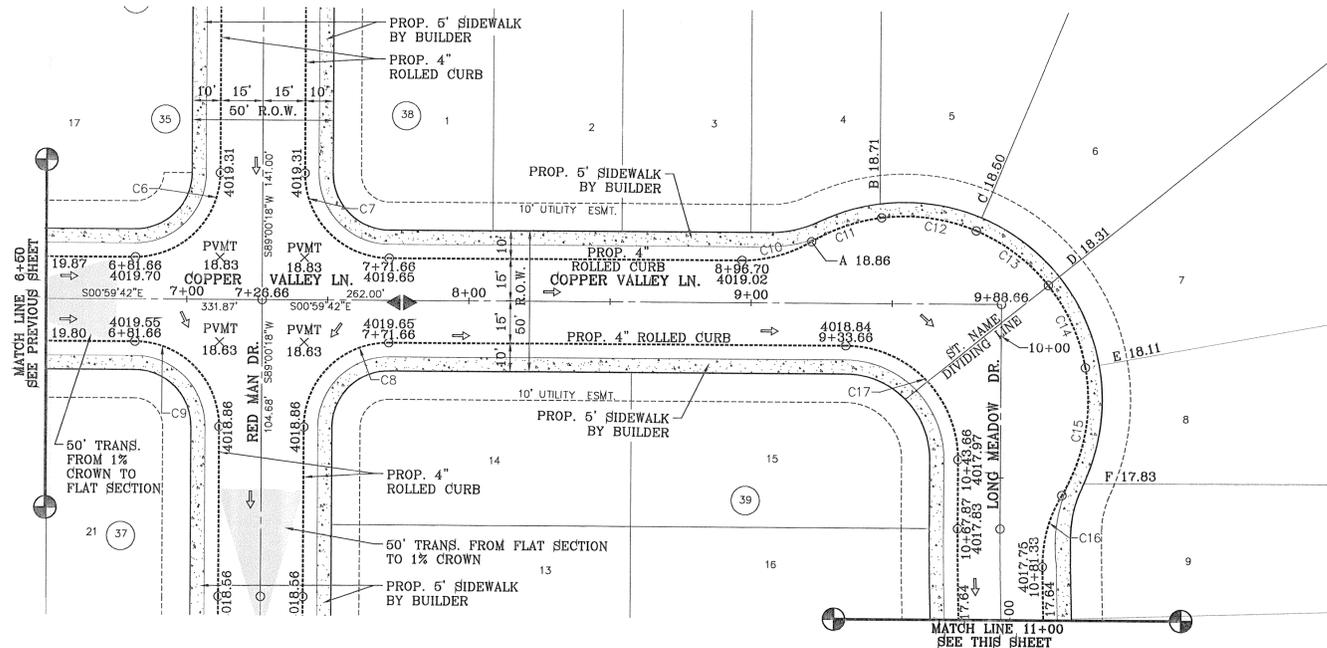
SHT 31 OF 80



SCALE: 1" = 30'

CURVE TABLE						
CURVE	RADIUS	LENGTH	TANGENT	CHORD	BEARING	DELTA
C6	30.00'	47.12'	30.00'	42.43'	N45°59'42"W	90°00'00"
C7	30.00'	47.12'	30.00'	42.43'	N44°00'18"E	90°00'00"
C8	30.00'	47.12'	30.00'	42.43'	S45°59'42"E	90°00'00"
C9	30.00'	47.12'	30.00'	42.43'	S44°00'18"W	90°00'00"
C10	48.00'	25.85'	13.25'	25.54'	N16°25'33"W	30°51'42"
C11	65.00'	26.44'	13.41'	26.26'	S20°12'07"E	23°18'35"
C12	65.00'	34.22'	17.51'	33.82'	S6°32'00"W	30°09'39"

CURVE TABLE						
CURVE	RADIUS	LENGTH	TANGENT	CHORD	BEARING	DELTA
C13	65.00'	32.33'	16.51'	32.00'	S35°51'53"W	28°30'07"
C14	65.00'	32.33'	16.51'	32.00'	S64°22'00"W	28°30'07"
C15	65.00'	46.70'	24.41'	45.70'	N80°47'59"W	41°09'55"
C16	48.00'	26.43'	13.56'	26.10'	S75°59'30"E	31°32'56"
C17	40.00'	62.83'	40.00'	56.57'	S44°00'18"W	90°00'00"
C18	1000.00'	198.69'	99.67'	198.37'	N83°18'47"E	11°23'03"



SCALE: 1" = 30'

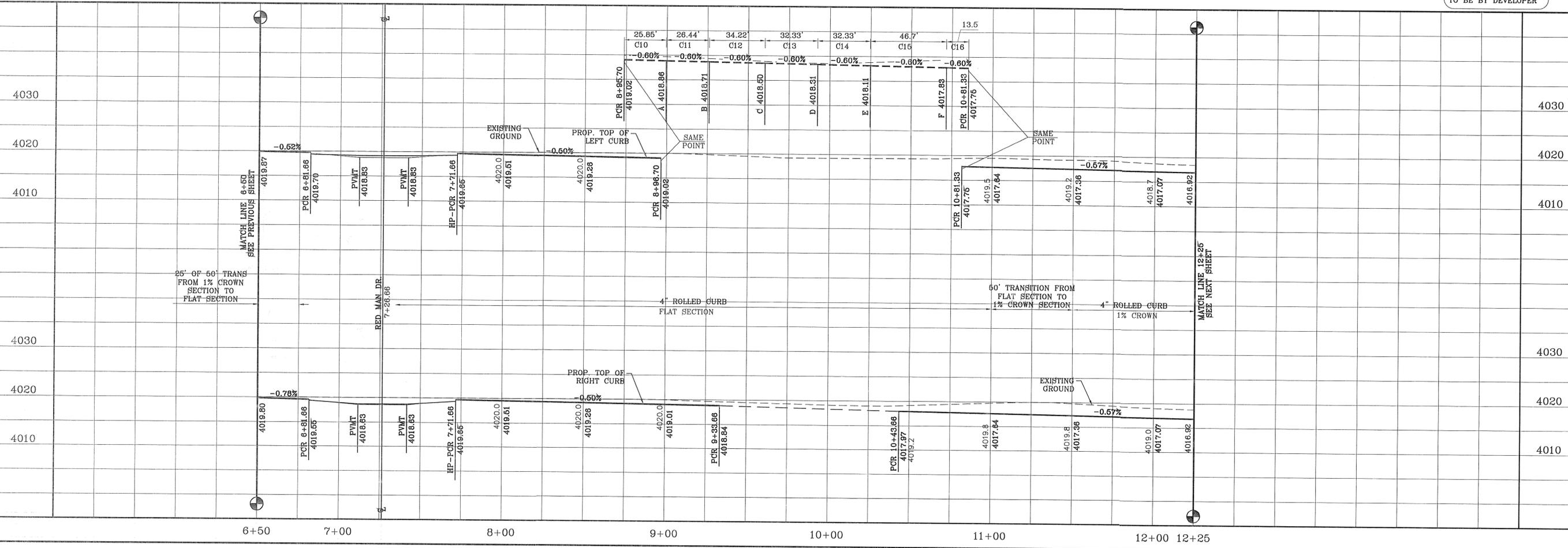


CITY DEVELOPMENT DEPARTMENT

REVIEWED

NOTE: ALL WHEELCHAIR RAMPS TO BE BY DEVELOPER

FILE S:\Subdivisions\MESQUITE HILLS 7.DWG\PP-PPR VLLY-LNG MDV-MD IDR-K-BUST STORM PLOTTED Thursday, May 01, 2014 4:48:55 PM



BENCHMARK

CITY MONUMENT AT THE CENTERLINE INTERSECTION OF COPPER CANYON DRIVE AND COPPER MINE LANE. ELEVATION 4007.42

DATE

REVISIONS

BY

R.R.

PROJECT NAME

**MESQUITE HILLS UNIT SEVEN**

BEING PORTION OF TRACTS 5 AND 6, SECTION 16, BLOCK 10, SUBDIVISION OF MESA VILLAS AND PALMS RAILROAD CO. SURVEY, CITY OF EL PASO, TEXAS COUNTY, TEXAS CONTAINING: 108.78 ACRES

SCALE

HORIZ: 1" = 30'

VERT: 1" = 10'

DATE: DEC. 2012

DESIGN BY: YC

INITIATED BY: RR

CHECKED BY: YC & FC

JOB NO.: 512-24

ENGINEER'S SEAL

**CONDE INC.**  
ENGINEERING / PLANNING  
SURVEYING / GPS  
6050 SURREY DR. SITE 100  
EL PASO, TEXAS 79905  
PHONE: (915) 592-0283  
FAX: (915) 592-0286

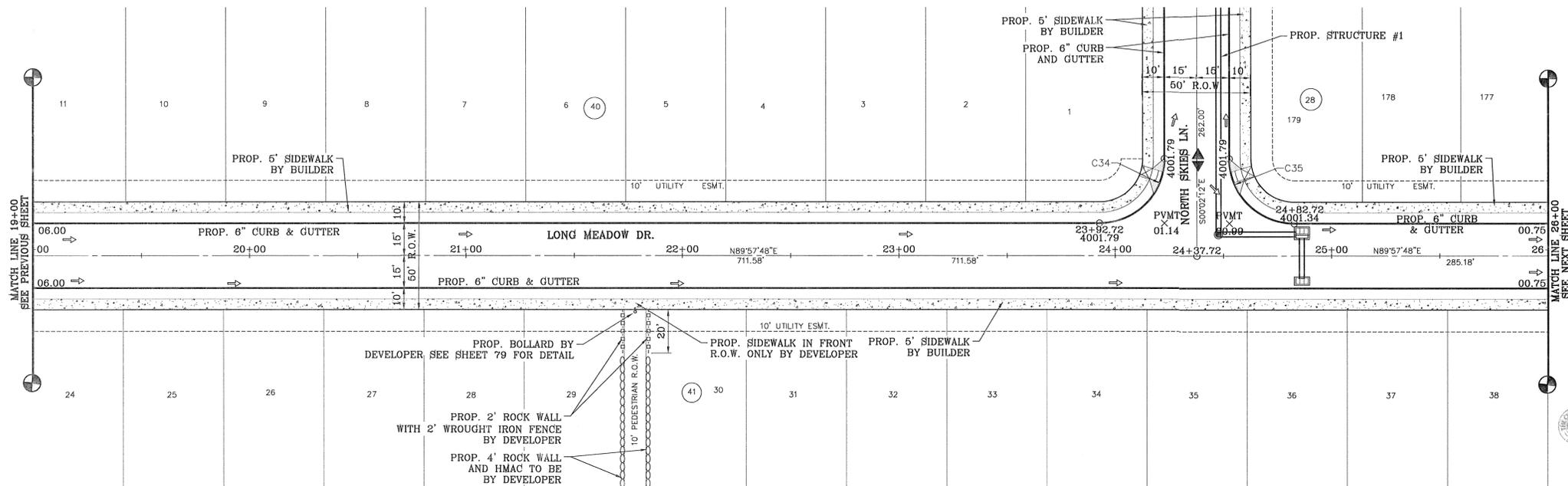
SHEET TITLE

STREET PLAN PROFILE  
**COPPER VALLEY LN. / LONG MEADOW DR.**  
STA: 6+50 TO STA: 12+25

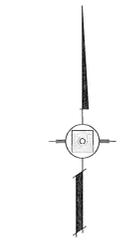
SHT 32 OF 80



FILE: S:\Subdivisions\MESQUITE\_HILLS\_7\DWG\EP--PR\_VLLY-NG\_MDW-ND\_FBRK-DUST\_STDM\_PLOTTED\_Thursday, May 01, 2014 4:49:18 PM

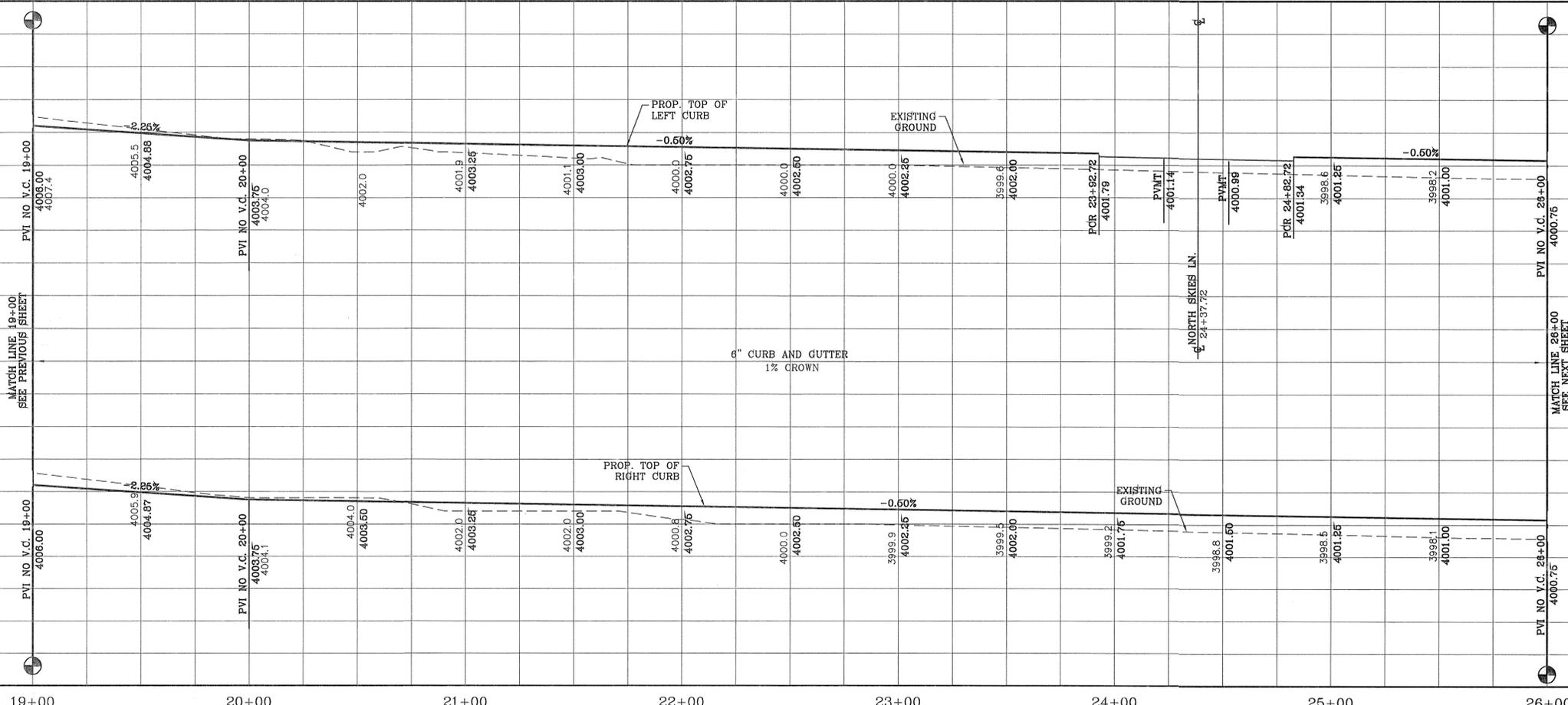


CURVE TABLE						
CURVE	RADIUS	LENGTH	TANGENT	CHORD	BEARING	DELTA
C34	30.00'	47.12'	30.00'	42.43'	N44°57'48"E	90°00'00"
C35	30.00'	47.12'	30.00'	42.43'	S45°02'12"E	90°00'00"



CITY DEVELOPMENT DEPARTMENT  
**REVIEWED**

**NOTE:**  
ALL WHEELCHAIR RAMPS TO BE BY DEVELOPER



BENCHMARK	
CITY MONUMENT AT THE CENTERLINE INTERSECTION OF COPPER CANYON DRIVE AND COPPER MINE LANE. ELEVATION 4007.82	DATE
REVISIONS	
04/19/13	2ND SET OF CITY COMMENTS

**MESQUITE HILLS UNIT SEVEN**  
BEING PORTION OF TRACTS 5 AND 6, SECTION 16, BLOCK 80, TOWNSHIP 1, TEXAS AND PACIFIC RAILROAD CO. SURVEYS, CITY OF EL PASO, EL PASO COUNTY, TEXAS CONTAINING: 106.76 ACRES

SCALE: 1" = 30'  
HORIZ: 1" = 30'  
VERT: 1" = 10'  
DATE: DEC. 2012  
DESIGN BY: YC  
INITIATED BY: RR  
CHECKED BY: YC & FC  
JOB NO.: 612-24



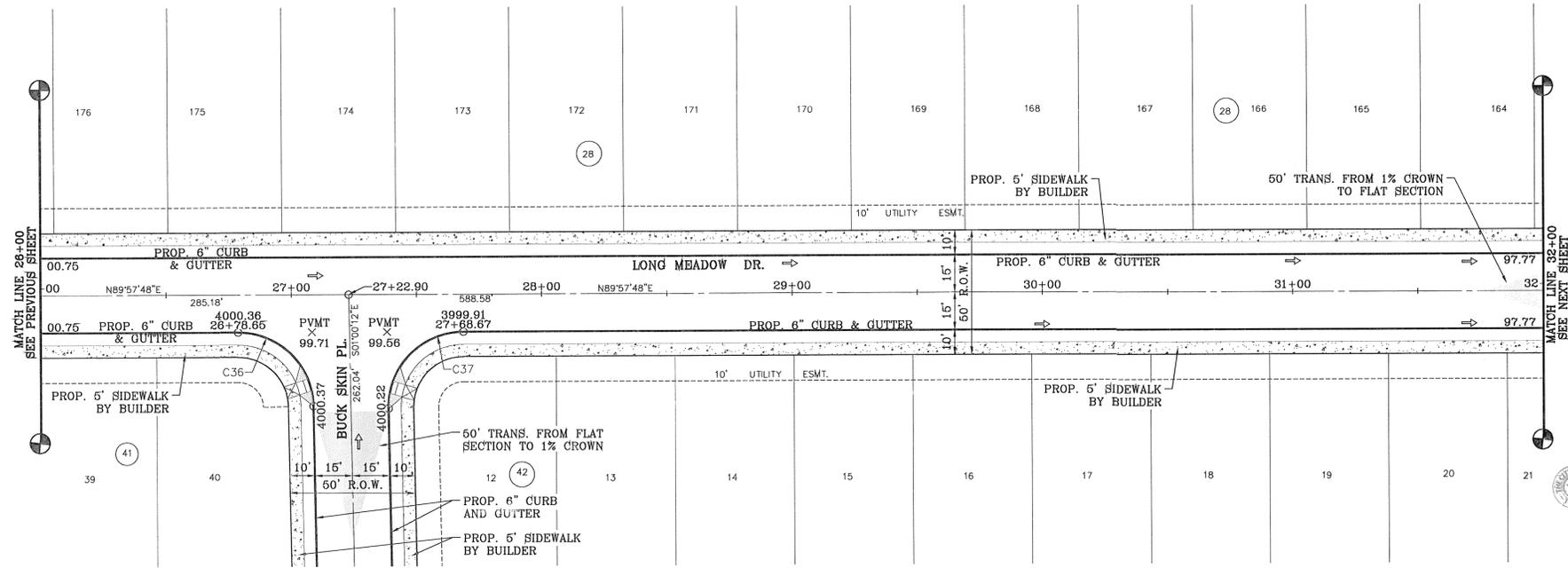
**CONDE INC.**  
ENGINEERING / PLANNING  
SURVEYING / GFS  
6080 SURETY DR. STE 100  
EL PASO, TEXAS 79905  
PHONE: (915) 592-0283  
FAX: (915) 592-0286



SHEET TITLE  
**STREET PLAN-PROFILE**  
**LONG MEADOW DR.**  
STA: 19+00  
TO  
STA: 26+00

FILE S:\\_Subdivisions\MESQUITE HILLS 7.DWG\PP-CPR V.LY-LINE.MD\NO FBK-DUST STBM PLOTTED Thursday, May 01, 2014 4:49:29 PM

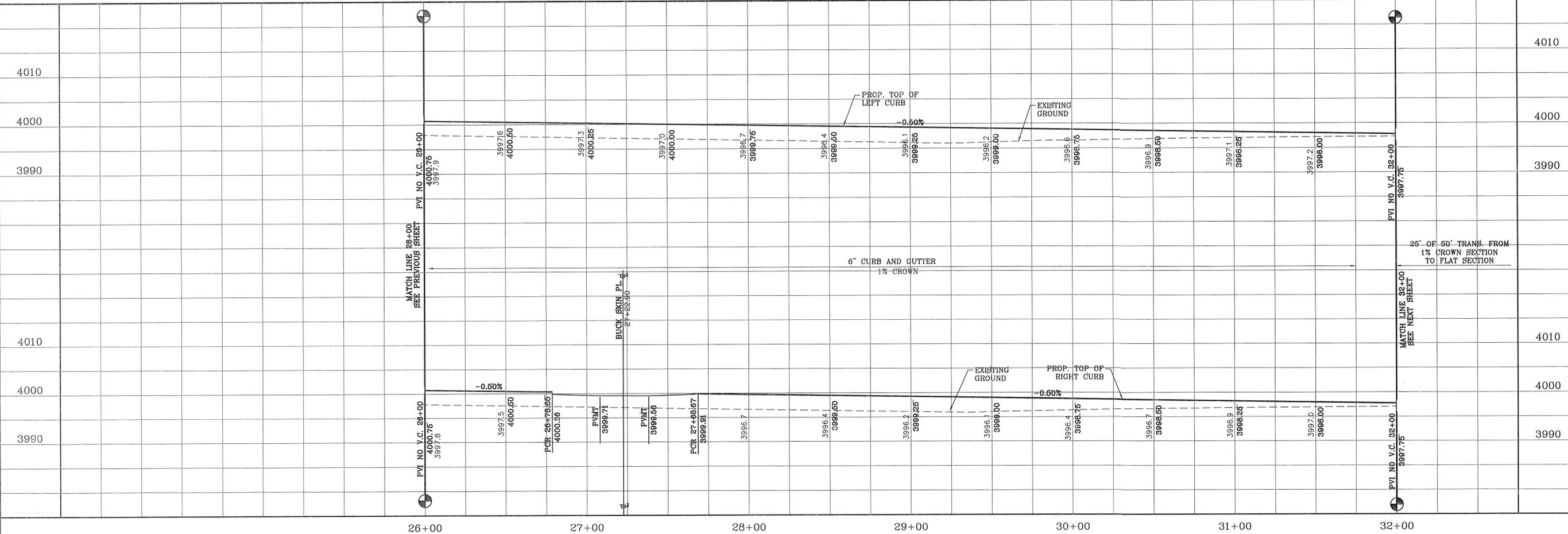
CURVE TABLE						
CURVE	RADIUS	LENGTH	TANGENT	CHORD	BEARING	DELTA
C36	30.00'	46.62'	29.50'	42.07'	N45°31'12"W	89°02'00"
C37	30.00'	47.63'	30.51'	42.78'	S44°28'48"W	90°58'00"



SCALE: 1" = 30'

**REVIEWED**  
CITY DEVELOPMENT DEPARTMENT

**NOTE:**  
ALL WHEELCHAIR RAMPS  
TO BE BY DEVELOPER



**BENCHMARK**  
CITY MONUMENT AT THE CENTERLINE INTERSECTION OF COPPER CANYON DRIVE AND COPPER MINE LANE ELEVATION 4007.42 ..... CITY DATUM

**REVISIONS**

DATE	REVISIONS	BY
04/19/13	2ND SET OF CITY COMMENTS	R.R.

**PROJECT NAME**  
**MESQUITE HILLS UNIT SEVEN**  
BEING PORTION OF TRACTS 5 AND 6, SECTION 16, BLOCK 80, TOWNSHIP 1, TEXAS AND PACIFIC RAILROAD CO. SURVEYS, CITY OF MESQUITE COUNTY, TEXAS CONTAINING: 108.76 ACRES

**SC A L E**  
HORIZ: 1" = 30'  
VERT: 1" = 10'

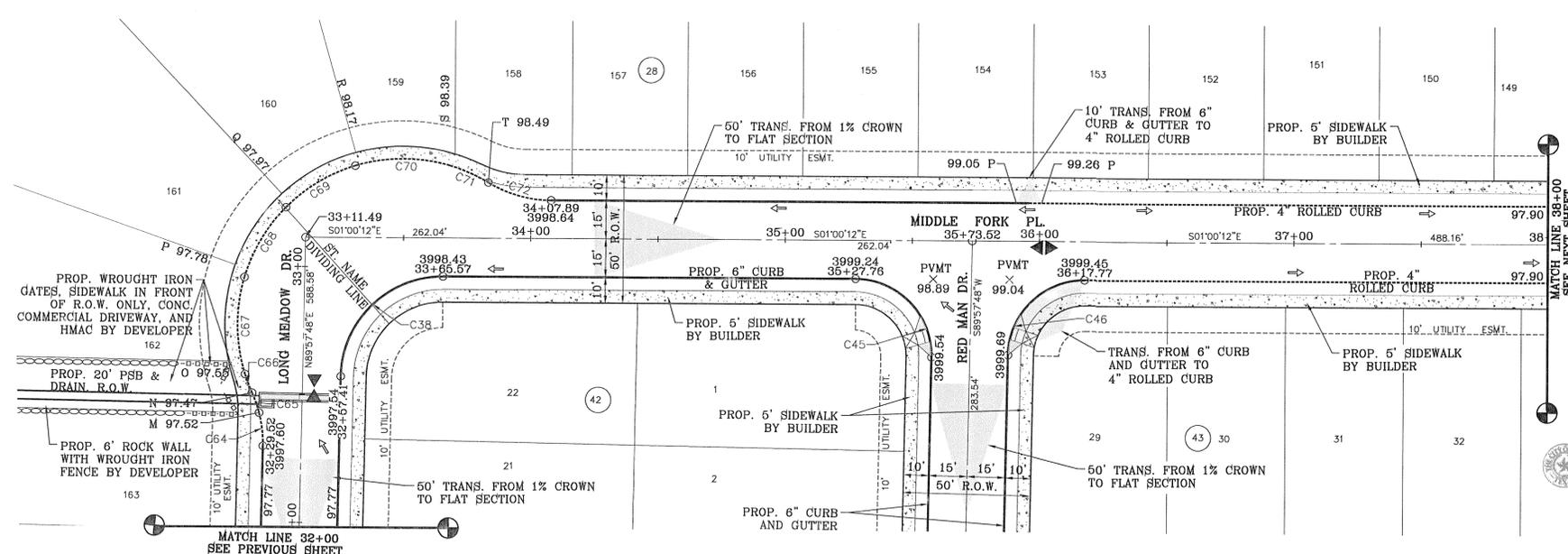
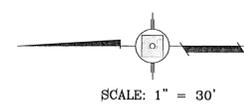
**ENGINEER'S SEAL**  
CONDE INC. ENGINEERING / PLANNING SURVEYING / GPS  
6080 SURETY DR. STE 100 EL PASO, TEXAS 79905  
PHONE: (915) 592-0283 FAX: (915) 592-0286

**SHEET TITLE**  
STREET PLAN - PROFILE  
**LONG MEADOW DR.**  
STA: 26+00 TO STA: 32+00

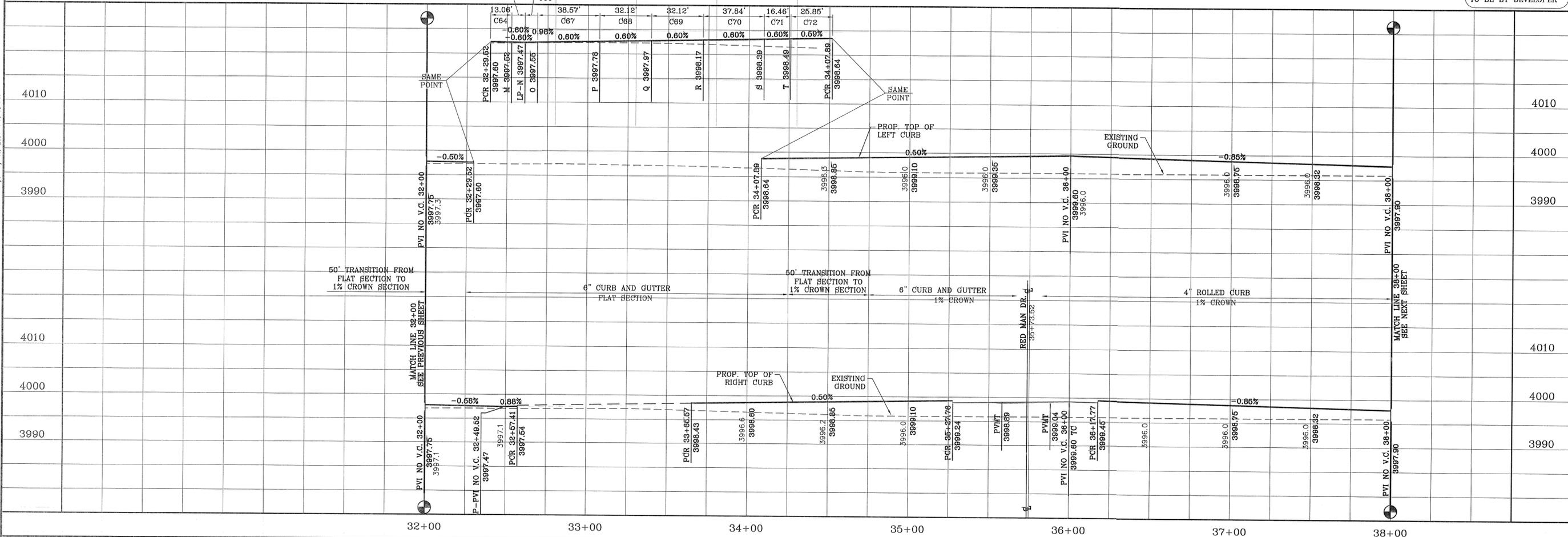
**SHT 35 OF 80**

CURVE TABLE						
CURVE	RADIUS	LENGTH	TANGENT	CHORD	BEARING	DELTA
C38	40.00'	62.16'	39.33'	56.09'	N45°31'12"W	89°02'00"
C39	48.00'	21.35'	10.85'	21.17'	N77°13'22"E	25°28'52"
C40	65.00'	46.39'	24.23'	45.41'	S84°55'45"W	40°53'37"
C41	65.00'	32.12'	16.39'	31.79'	N60°28'11"W	28°18'32"
C42	65.00'	32.12'	16.39'	31.79'	N32°09'37"W	28°18'36"
C43	65.00'	54.30'	28.85'	52.73'	N5°55'36"E	47°51'49"
C44	48.00'	25.85'	13.25'	25.54'	S14°25'39"W	30°51'42"
C45	30.00'	47.63'	30.51'	42.78'	N44°28'48"E	90°58'00"
C46	30.00'	46.62'	29.50'	42.07'	N45°31'12"W	89°02'00"

CURVE TABLE						
CURVE	RADIUS	LENGTH	TANGENT	CHORD	BEARING	DELTA
C64	48.00'	13.06'	6.57'	13.02'	N82°10'17"E	15°35'02"
C65	48.00'	8.29'	4.16'	8.28'	N69°25'52"E	9°53'50"
C66	65.00'	7.82'	3.91'	7.82'	S67°55'45"W	6°53'37"
C67	65.00'	38.57'	19.87'	38.01'	S88°22'33"W	34°00'00"
C68	65.00'	32.12'	16.39'	31.79'	N60°28'11"W	28°18'32"
C69	65.00'	32.12'	16.39'	31.79'	N32°09'37"W	28°18'36"
C70	65.00'	37.84'	19.47'	37.31'	N11°9'35"W	33°21'27"
C71	65.00'	16.46'	8.27'	16.41'	N22°36'19"E	14°30'23"
C72	48.00'	25.85'	13.25'	25.54'	S14°25'39"W	30°51'42"



NOTE:  
ALL WHEELCHAIR RAMP  
TO BE BY DEVELOPER



BENCHMARK

CITY MONUMENT AT THE CENTERLINE INTERSECTION OF  
COPPER CANYON DRIVE AND COPPER MINE LANE  
ELEVATION 4007.46

DATE: 04/19/13

BY: [Signature]

REVISIONS

2ND SET OF CITY COMMENTS

R.R.

PROJECT NAME

**MESQUITE HILLS UNIT SEVEN**

BEING PORTION OF TRACTS 5 AND 6, SECTION 16, BLOCK  
26, AND TRACTS 1 AND 2, SECTION 17, BLOCK  
26, SURVEY OF EL PASO COUNTY, TEXAS  
CONTAINING 108.78 ACRES

CITY DEVELOPMENT DEPARTMENT

**REVIEWED**

SCALE

HORIZ: 1" = 30'

VERT: 1" = 10'

DATE: DEC. 2012

DESIGN BY: YC

INITIATED BY: RR

CHECKED BY: YC & FC

JOB NO.: 612-24

ENGINEER'S SEAL

CONDE INC.

ENGINEERING / PLANNING  
SURVEYING / GPS

6080 SURETY DR. STE 100  
EL PASO, TEXAS 79905  
PHONE: (915) 592-0283  
FAX: (915) 592-0286

SHEET TITLE

**STREET  
PLAN-PROFILE  
LONG  
MEADOW DR.  
/ MIDDLE  
FORK PL.  
STA: 32+00  
TO  
STA: 38+00**

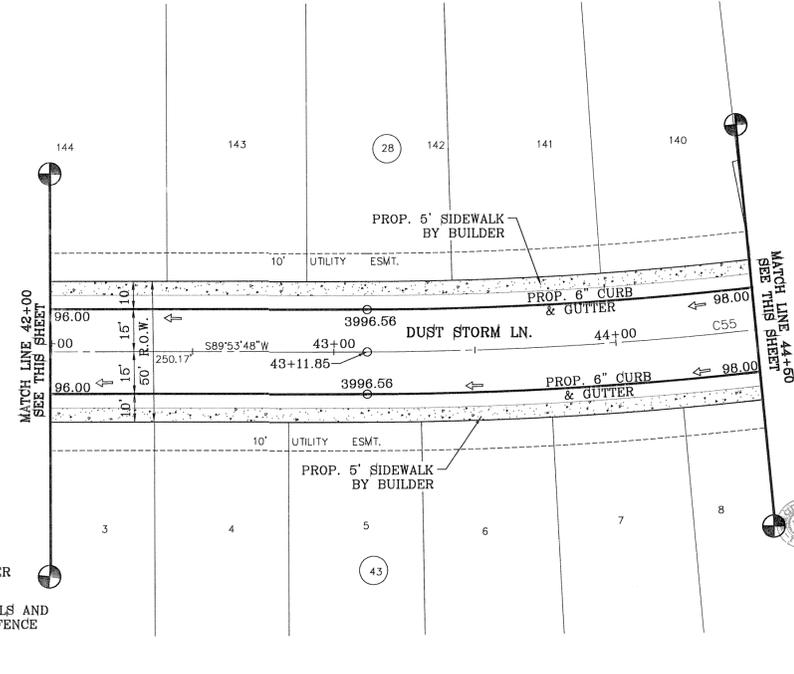
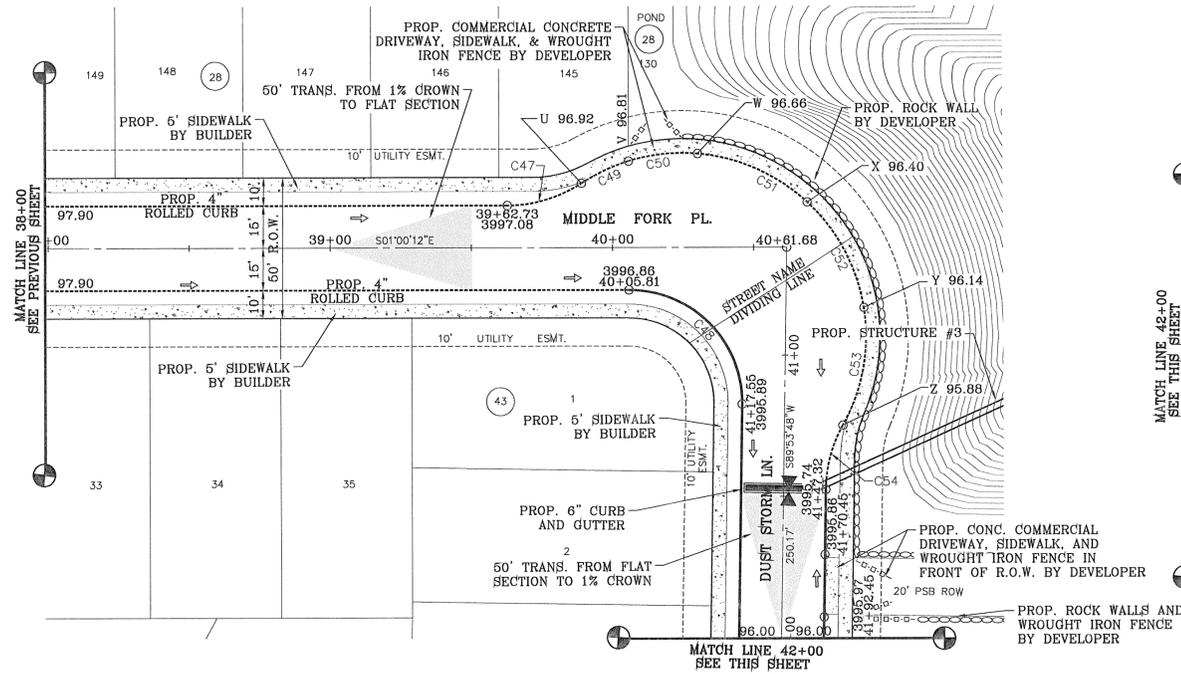
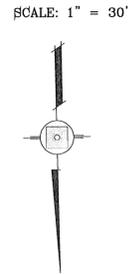
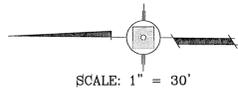
SHT 36 OF 80

FILE S:\\_Subdivisions\MESQUITE HILLS 7.DWG\PP-CPR VALLY-LNG MDV-MD FIRK-BUST STORM PLOTTED Thursday, May 01, 2014 4:49:40 PM

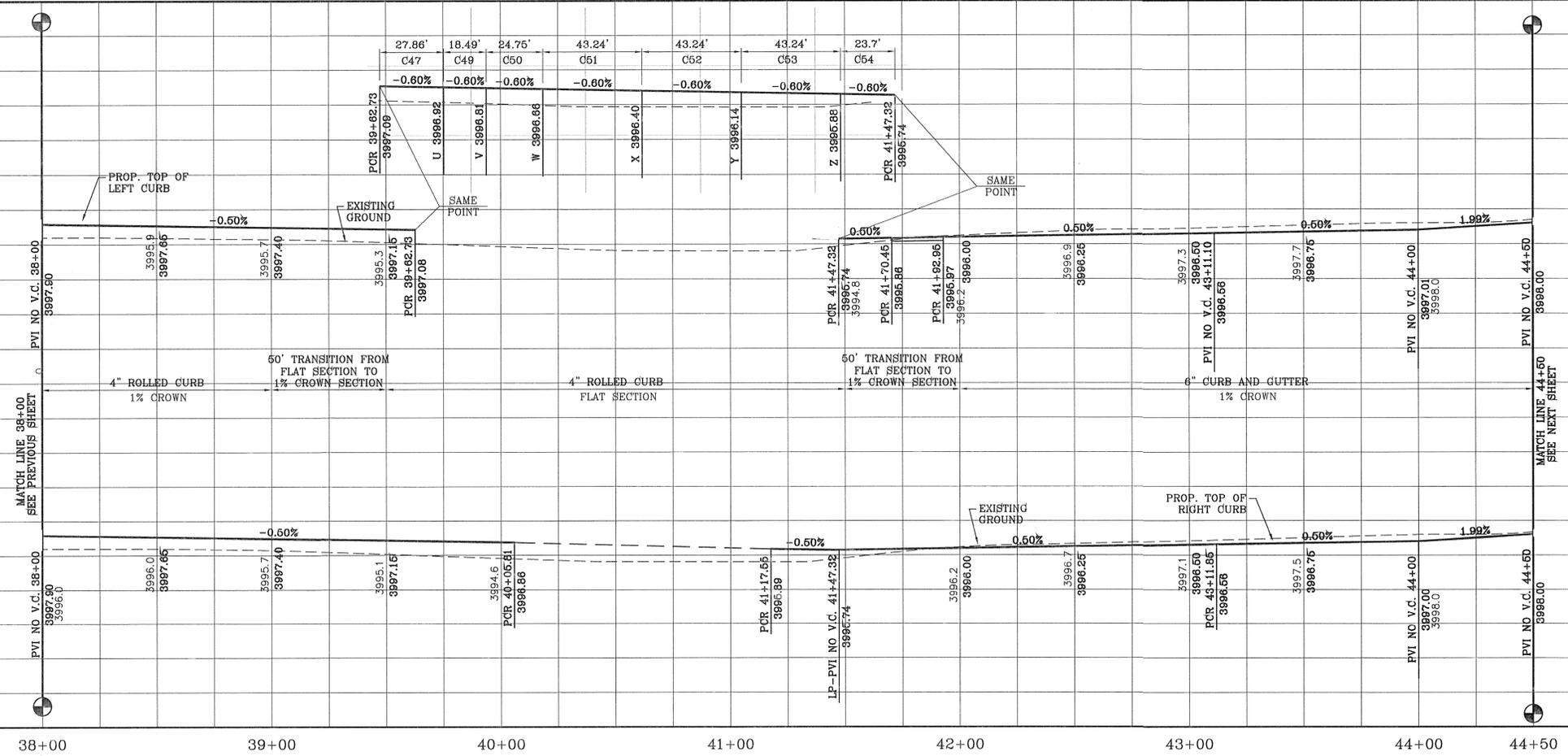
FILE: S:\Subdivisions\MESQUITE HILLS 7\DWG\VP-CPR VLLY-LNG MDY-HD EDRK-DUST STORM PLUTTED Thursday, May 01, 2014 4:49:53 PM

CURVE TABLE						
CURVE	RADIUS	LENGTH	TANGENT	CHORD	BEARING	DELTA
C47	48.00'	27.86'	14.33'	27.47'	S17°37'42"E	33°15'01"
C48	40.00'	63.46'	40.63'	57.01'	N44°26'48"E	90°54'00"

CURVE TABLE						
CURVE	RADIUS	LENGTH	TANGENT	CHORD	BEARING	DELTA
C49	65.00'	18.49'	9.31'	18.43'	N26°06'19"W	16°17'48"
C50	65.00'	24.75'	12.53'	24.60'	N7°02'59"W	21°48'51"
C51	65.00'	43.24'	22.45'	42.44'	N22°54'46"E	38°06'39"
C52	65.00'	43.24'	22.45'	42.44'	N61°01'26"E	38°06'39"
C53	65.00'	43.24'	22.45'	42.44'	S80°51'55"E	38°06'39"
C54	48.00'	23.70'	12.10'	23.46'	N75°57'23"W	28°17'37"
C55	1250.00'	276.61'	138.87'	276.04'	S83°33'27"W	12°40'43"



NOTE:  
ALL WHEELCHAIR RAMPS  
TO BE BY DEVELOPER



BENCHMARK  
CITY MONUMENT AT THE CENTERLINE INTERSECTION OF  
COPPER CANYON DRIVE AND COPPER MINE LANE  
ELEVATION 4007.42 .....CITY DATUM

DATE	REVISIONS	BY
04/19/13	2ND SET OF CITY COMMENTS	R.R.
05/15/13	CITY REDLINES AS PER 05/15/13 COMMENTS	R.R.

PROJECT NAME  
**MESQUITE HILLS UNIT SEVEN**

BEING PORTION OF TRACTS 5 AND 6, SECTION 16, BLOCK  
80, TOWNSHIP 10S, RANGE 13E, COUNTY, TEXAS  
SURVEYS, CITY OF EL PASO, TEXAS  
CONTAINING: 108.78 ACRES

CITY DEVELOPMENT DEPARTMENT  
**REVIEWED**

SCALE  
HORIZ: 1" = 30'  
VERT: 1" = 10'

DATE: DEC. 2012  
DESIGN BY: YC  
INITIATED BY: RR  
CHECKED BY: YC & FC  
JOB NO.: 512-24

ENGINEER'S SEAL

**CONDE INC.**  
ENGINEERING / PLANNING  
SURVEYING / GPS  
6080 SURETY DR. STE 100  
EL PASO, TEXAS 79905  
PHONE: (915) 592-0283  
FAX: (915) 592-0286

SHEET TITLE  
**STREET PLAN-PROFILE  
MIDDLE  
FORK PL. /  
DUST  
STORM LN.**  
STA: 38+00  
TO  
STA: 44+50

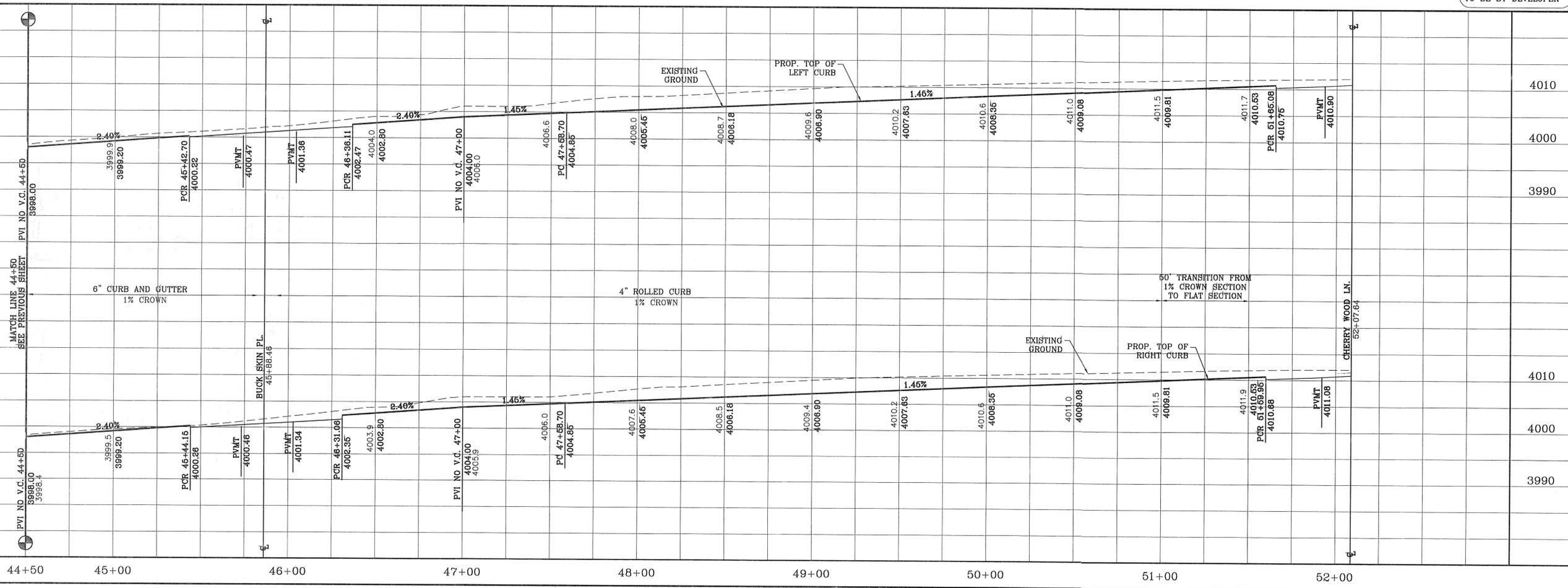
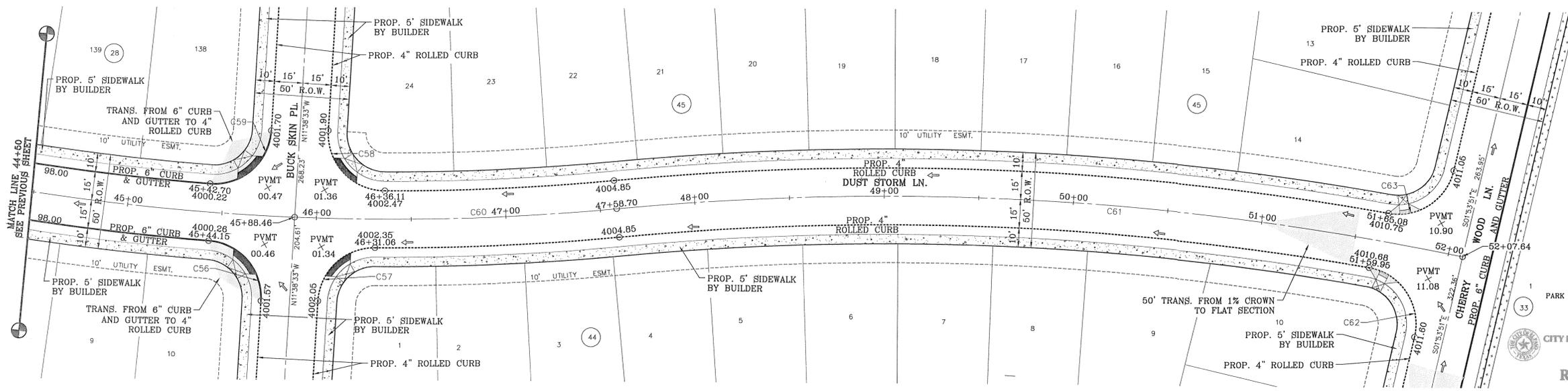
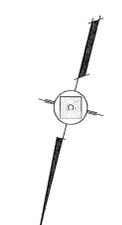
SHT **37** OF **80**

**MESQUITE HILLS UNIT SEVEN**

FILE: S:\Subdivisions\MESQUITE HILLS 7\DWG\APP-CPR VLLY-LNG MDW-MD FURK-DUST STORM PLOTTED Thursday, May 01, 2014 4:50:02 PM

CURVE TABLE						
CURVE	RADIUS	LENGTH	TANGENT	CHORD	BEARING	DELTA
C56	30.00'	46.66'	29.54'	42.10'	S56°11'49"E	89°06'32"
C57	30.00'	45.50'	28.42'	41.27'	N31°48'41"E	86°54'28"
C58	30.00'	48.86'	31.79'	43.64'	N58°18'15"W	93°19'25"
C59	30.00'	47.63'	30.51'	42.78'	S33°50'11"W	90°57'28"
C60	1250.00'	170.24'	85.25'	170.11'	S73°18'59"W	7°48'11"
C61	1500.00'	448.94'	226.16'	447.27'	N77°59'20"E	17°08'54"
C62	30.00'	48.88'	31.81'	43.65'	S48°34'41"E	93°21'39"
C63	30.00'	45.47'	28.39'	41.24'	S41°31'12"W	86°50'07"

SCALE: 1" = 30'



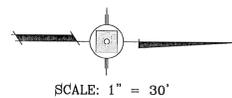
NOTE:  
ALL WHEELCHAIR RAMPS  
TO BE BY DEVELOPER

REVIEWED

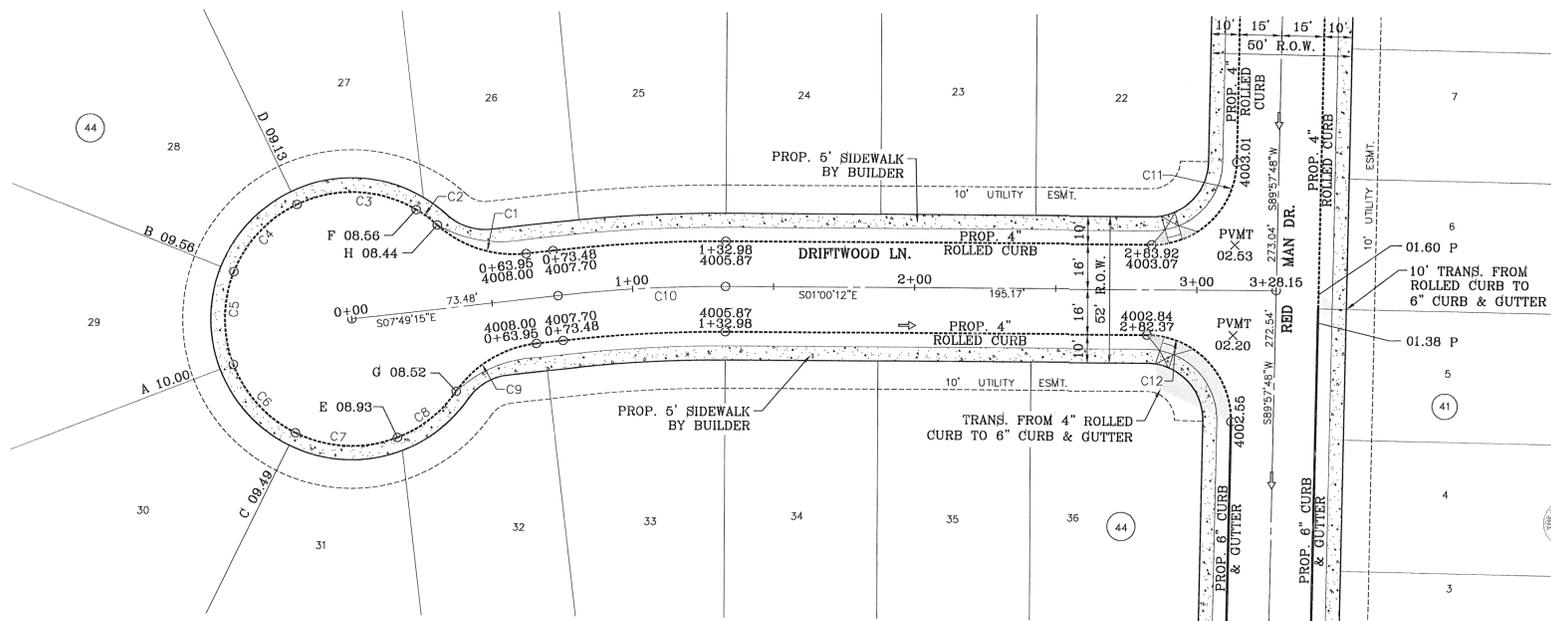
<b>CONDE INC.</b> ENGINEERING / PLANNING SURVEYING / GFS 6080 SURETY DR. STE 100 EL PASO, TEXAS 79905 PHONE: (915) 592-0283 FAX: (915) 592-0286		<b>ENGINEER'S SEAL</b> 	PROJECT NAME <b>MESQUITE HILLS UNIT SEVEN</b> BEING PORTION OF TRACTS 5 AND 6, SECTION 16, BLOCK 80, TOWNSHIP 1, TEXAS AND PACIFIC RAILROAD CO. SURVEYS, CITY OF EL PASO, EL PASO COUNTY, TEXAS CONTAINING: 108.76 ACRES	CITY MONUMENT AT THE CENTERLINE INTERSECTION OF COPPER CANYON DRIVE AND COPPER MINE LANE. ELEVATION 4007.42 ..... CITY DATUM
SHEET TITLE <b>STREET PLAN - PROFILE</b> <b>DUST STORM LN.</b> STA: 44+50 TO STA: 52+02.74	REVISIONS DATE 04/19/13			
SCALE HORIZ: 1" = 30' VERT: 1" = 10' DATE: DEC. 2012 DESIGN BY: YC INITIATED BY: RR CHECKED BY: YC & FC JOB NO.: 512-24		SHT 38 OF 80		

CURVE TABLE						
CURVE	RADIUS	LENGTH	TANGENT	CHORD	BEARING	DELTA
C1	40.00'	34.06'	18.14'	33.04'	N16°34'26"E	48°47'23"
C2	45.00'	9.30'	4.67'	9.29'	S35°02'46"W	11°50'44"
C3	45.00'	44.00'	23.94'	42.27'	S1°06'34"W	56°01'42"
C4	45.00'	33.51'	17.58'	32.74'	S48°14'23"E	42°40'11"
C5	45.00'	33.51'	17.58'	32.74'	N89°05'27"E	42°40'11"
C6	45.00'	33.51'	17.58'	32.74'	N46°25'16"E	42°40'11"

CURVE TABLE						
CURVE	RADIUS	LENGTH	TANGENT	CHORD	BEARING	DELTA
C7	45.00'	37.27'	19.78'	36.22'	N1°21'29"E	47°27'22"
C8	45.00'	26.89'	13.86'	26.49'	N39°29'25"W	34°14'27"
C9	40.00'	34.06'	18.14'	33.04'	S32°12'57"E	48°47'23"
C10	500.00'	59.50'	29.78'	59.46'	S4°24'44"E	6°49'03"
C11	30.00'	46.62'	29.50'	42.07'	N45°31'12"W	89°02'00"
C12	30.00'	47.63'	30.51'	42.78'	S44°28'48"W	90°58'00"



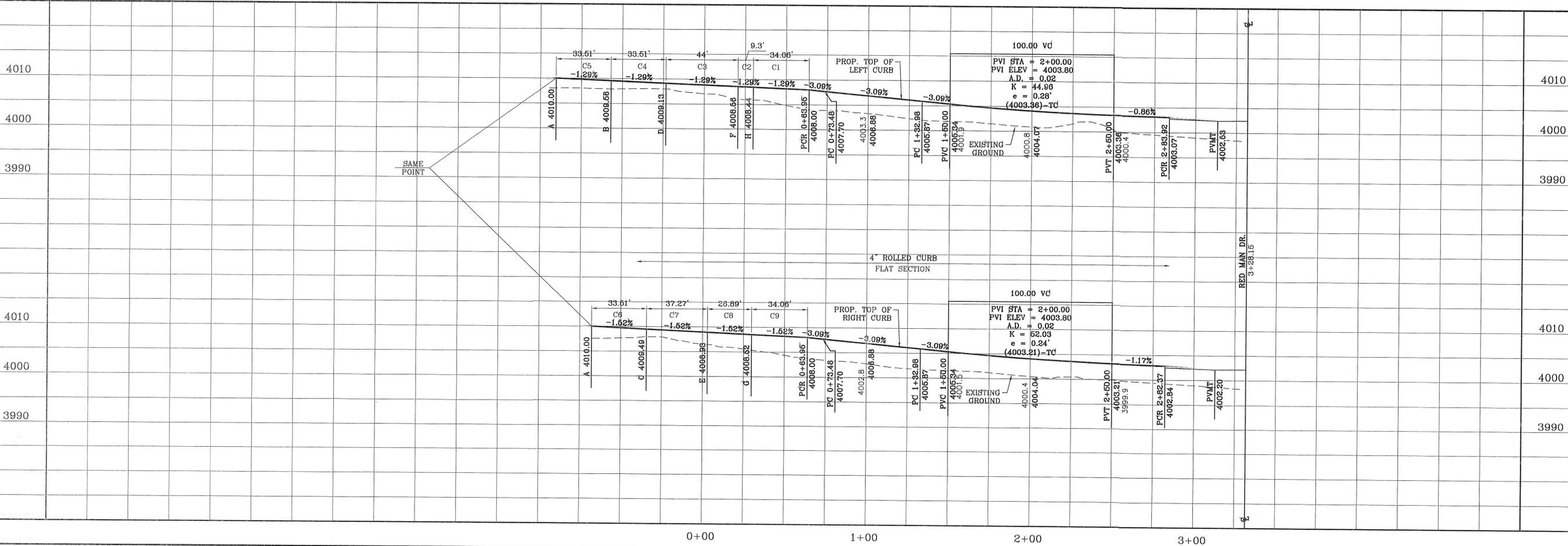
SCALE: 1" = 30'



CITY DEVELOPMENT DEPARTMENT

REVIEWED

NOTE:  
ALL WHEELCHAIR RAMP  
TO BE BY DEVELOPER



BENCHMARK	CITY MONUMENT AT THE CENTERLINE INTERSECTION OF COPPER CANYON DRIVE AND COPPER MINE LANE. ELEVATION 4007.42
DATE	04/19/13
BY	R.R.
REVISIONS	2ND SET OF CITY COMMENTS

PROJECT NAME  
**MESQUITE HILLS UNIT SEVEN**  
BEING PORTION OF TRACTS 5 AND 6, SECTION 16, BLOCK 80, TOWNSHIP 1, EL PASO, TEXAS  
SURVEYS, CITY OF EL PASO, COUNTY, TEXAS  
CONTAINING: 108.76 ACRES

SCALE  
HORIZ: 1" = 30'  
VERT: 1" = 10'

DATE: DEC. 2012  
DESIGN BY: YC  
INITIATED BY: BR  
CHECKED BY: YC & FC  
JOB NO.: 512-24

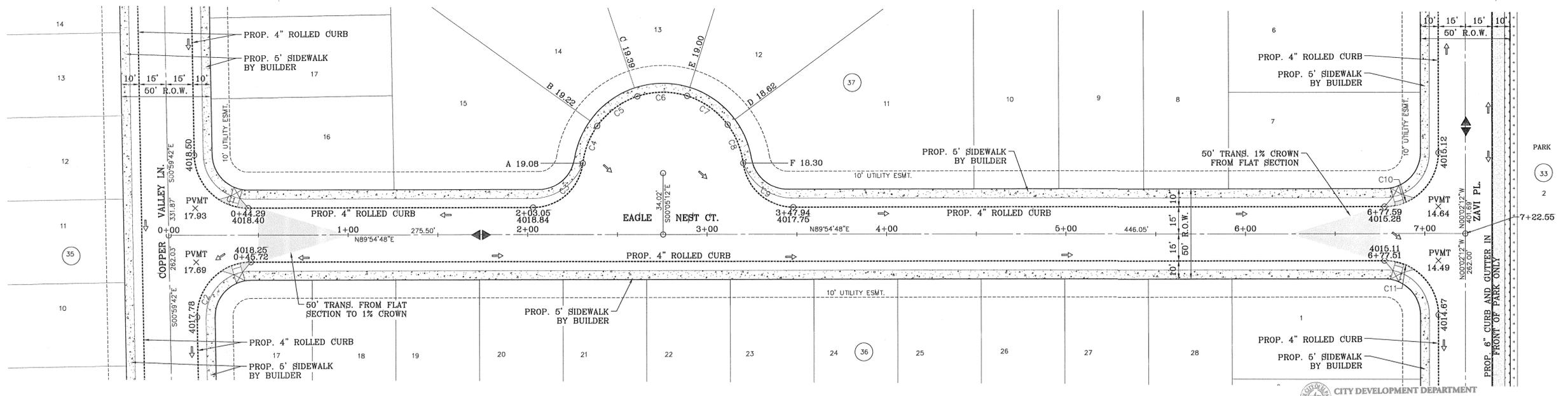
ENGINEER'S SEAL

**CONDE INC.**  
ENGINEERING / PLANNING  
SURVEYING / GPS  
6080 SURETY DR. STE 100  
EL PASO, TEXAS 79905  
PHONE: (915) 592-0283  
FAX: (915) 692-0286

SHEET TITLE  
**STREET PLAN--PROFILE**  
**DRIFTWOOD LN.**  
IN ITS ENTIRETY

FILE S:\Subdivisions\MESQUITE HILLS 7.DWG\PP-BRIF\TWEDD.PLD\TIED Thursday, May 01, 2014 4:50:13 PM

FILE: S:\Subdivisions\MESQUITE HILLS 7\DWG\PP-EAGLE NEST PLOTTED Thursday, May 01, 2014 4:50:26 PM



**REVIEWED**

CITY DEVELOPMENT DEPARTMENT

**NOTE:**  
ALL WHEELCHAIR RAMP  
TO BE BY DEVELOPER

BENCHMARK

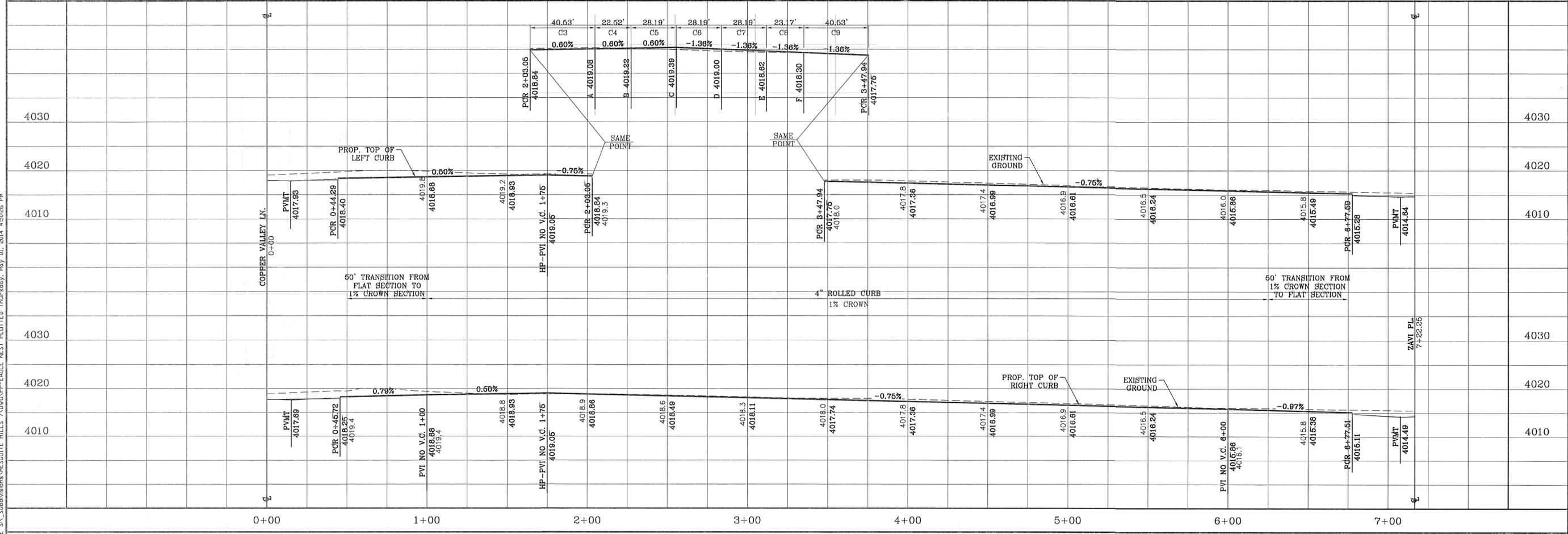
CITY MONUMENT AT THE CENTERLINE INTERSECTION OF COPPER CANYON DRIVE AND COPPER MINE LANE. ELEVATION 4007.42

PROJECT NAME

**MESQUITE HILLS UNIT SEVEN**

BEING PORTION OF TRACTS 5 AND 6, SECTION 16, BLOCK 80, TOWNSHIP 1, TEXAS AND PACIFIC RAILROAD CO. SURVEYS, CITY OF EL PASO, EL PASO COUNTY, TEXAS CONTAINING: 106.76 ACRES

DATE	REVISIONS	BY
04/19/13	2ND SET OF CITY COMMENTS	R.R.



ENGINEER'S SEAL

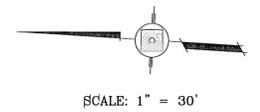
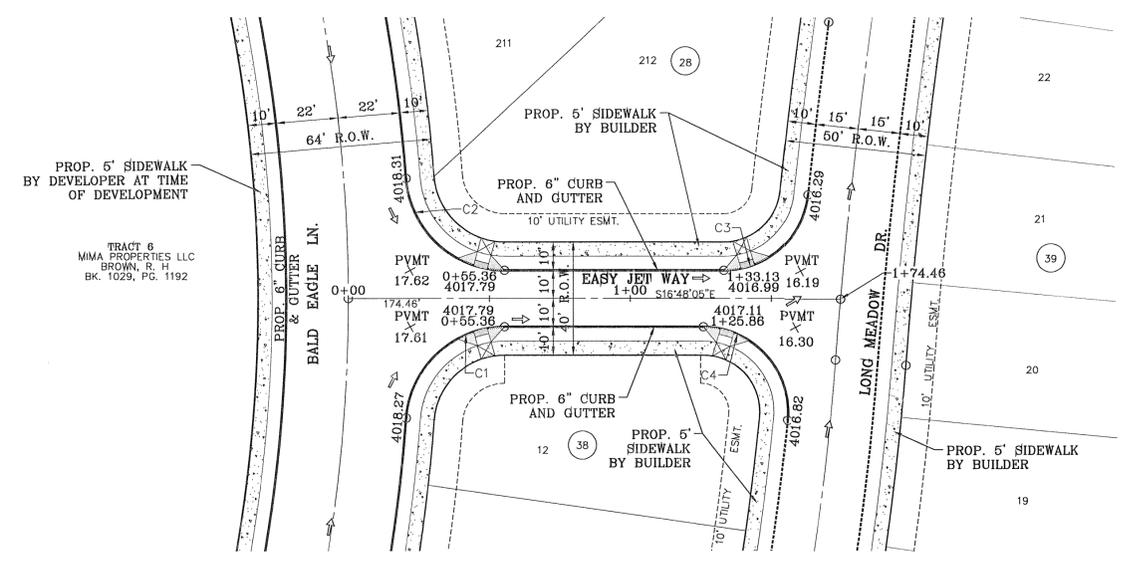
**CONDE INC.**  
ENGINEERING / PLANNING  
SURVEYING / GPS  
6080 SURETY DR. STE 100  
EL PASO, TEXAS 79905  
PHONE: (915) 592-0283  
FAX: (915) 592-0286

**SHEET TITLE**  
STREET  
PLAN - PROFILE

**EAGLE NEST CT.  
IN ITS ENTIRETY**

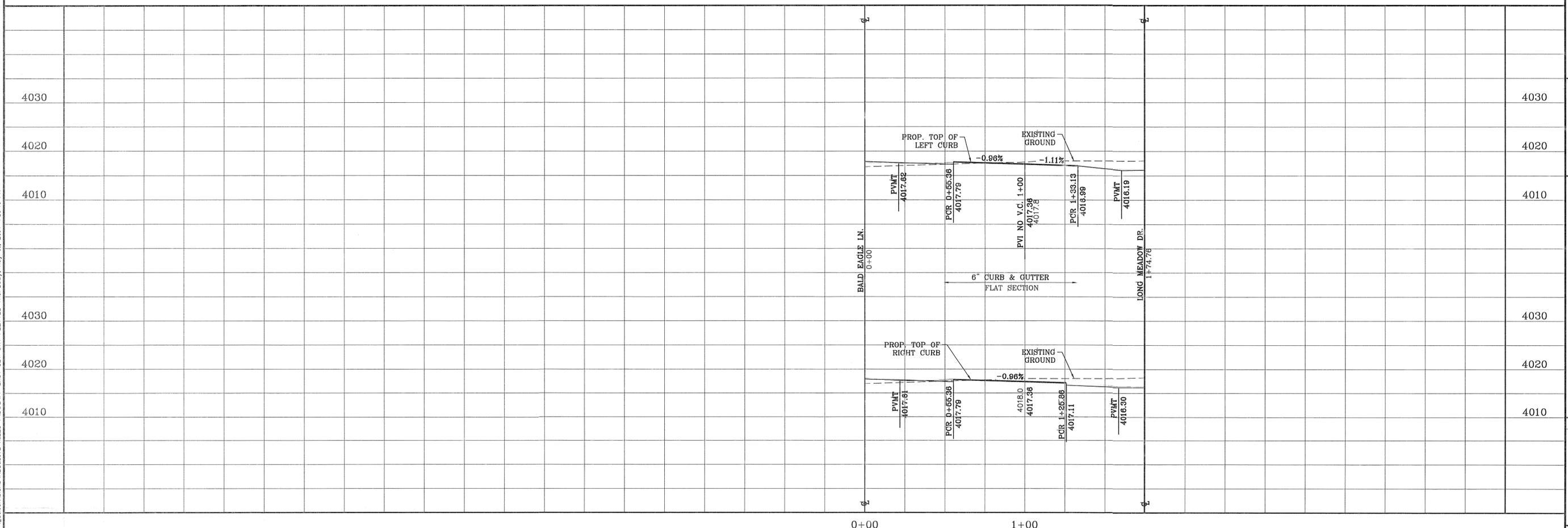
FILE S:\\_Subdivisions\MESQUITE HILLS 7\DWG\PP-EASY JET WAY PLOTTED Thursday, May 01, 2014 4:50:40 PM

CURVE TABLE						
CURVE	RADIUS	LENGTH	TANGENT	CHORD	BEARING	DELTA
C1	35.00'	52.42'	32.53'	47.66'	N59°42'36"W	85°49'03"
C2	35.00'	52.42'	32.53'	47.66'	S26°06'27"W	85°49'03"
C3	30.00'	43.95'	26.99'	40.13'	S58°46'28"E	83°56'47"
C4	30.00'	50.13'	33.17'	44.50'	N31°04'22"E	95°44'52"



CITY DEVELOPMENT DEPARTMENT  
**REVIEWED**

**NOTE:**  
ALL WHEELCHAIR RAMP'S  
TO BE BY DEVELOPER



BENCHMARK	
CITY MONUMENT AT THE CENTERLINE INTERSECTION OF COPPER CANYON DRIVE AND COPPER MINE LANE. ELEVATION 4007.42	.....CITY DATUM
DATE	REVISIONS
04/19/13	2ND SET OF CITY COMMENTS
BY	R.R.

PROJECT NAME  
**MESQUITE HILLS UNIT SEVEN**  
BEING PORTION OF TRACTS 5 AND 6, SECTION 16, BLOCK 80, TOWNSHIP 1, TEXAS AND PACIFIC RAILROAD CO. SURVEYS, CITY OF EL PASO, EL PASO COUNTY, TEXAS CONTAINING: 108.78 ACRES

S C A L E  
HORIZ: 1" = 30'  
VERT: 1" = 10'  
DATE: DEC. 2012  
DESIGN BY: YC  
INITIATED BY: RR  
CHECKED BY: YC & FC  
JOB NO.: 512-24



**CONDE INC.**  
ENGINEERING / PLANNING  
SURVEYING / GPS  
6080 SURETY DR. STE 100  
EL PASO, TEXAS 79905  
PHONE: (915) 592-0283  
FAX: (915) 592-0286

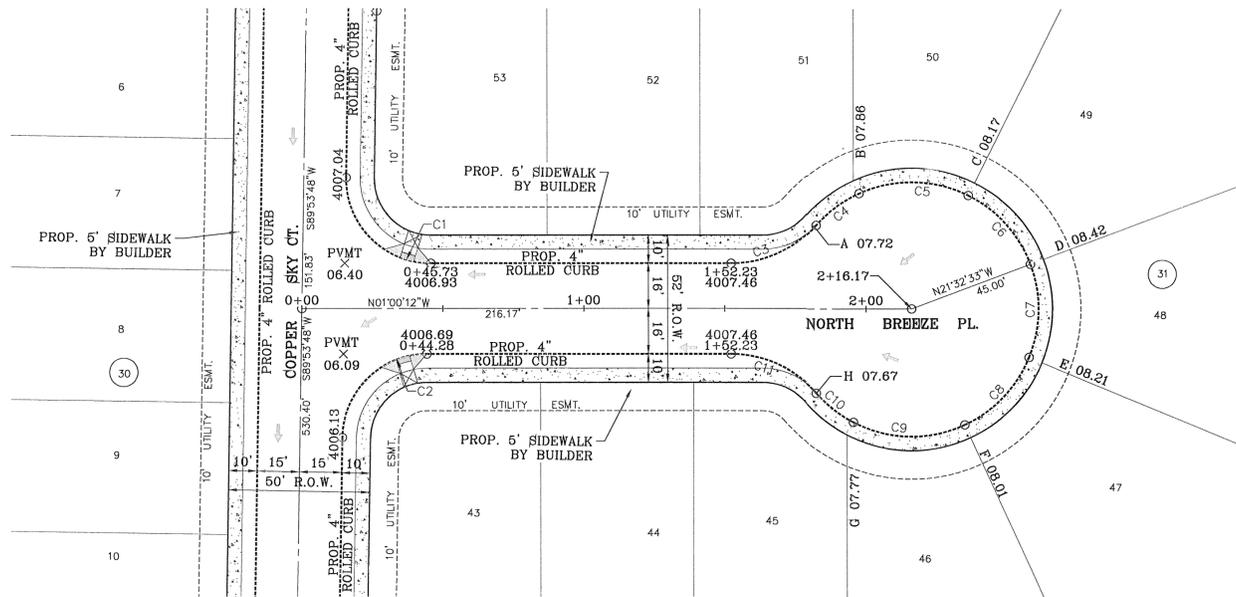
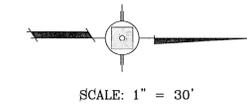


SHEET TITLE  
**STREET  
PLAN-PROFILE  
EASY JET  
WAY  
IN ITS  
ENTIRETY**

FILE: S:\Subdivisions\MESQUITE HILLS 7\DWG\PP-NORTH BREEZE PL-DTD Thursday, May 01, 2014 4:50:53 PM

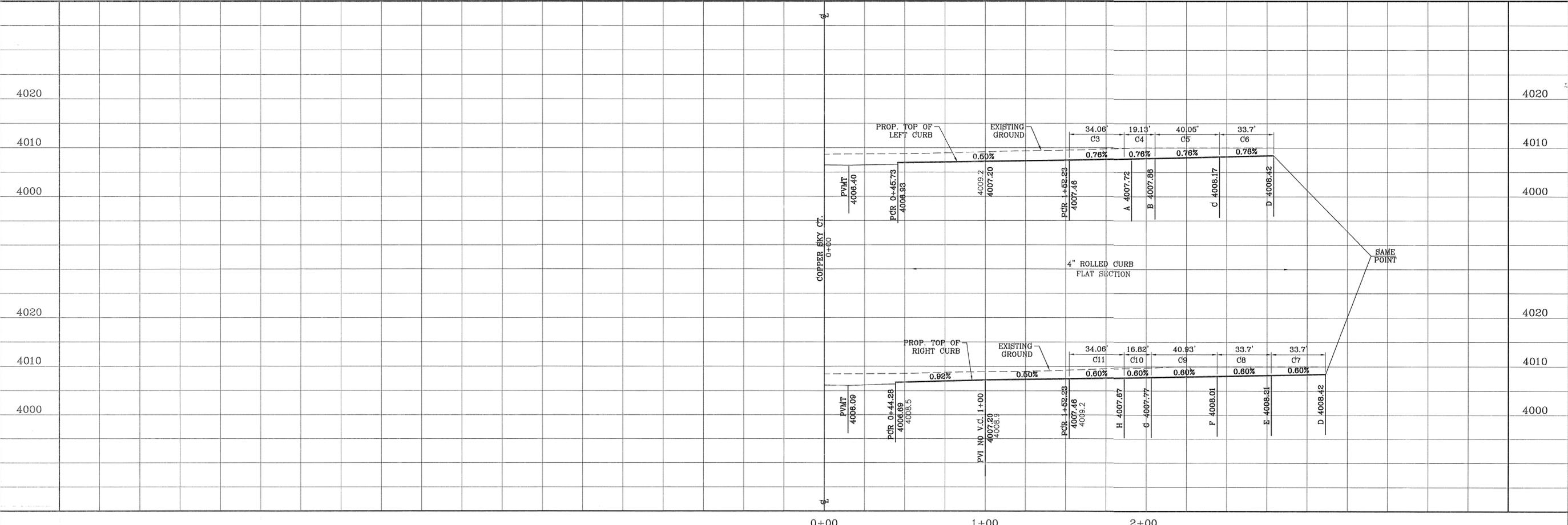
CURVE TABLE						
CURVE	RADIUS	LENGTH	TANGENT	CHORD	BEARING	DELTA
C1	30.00'	47.60'	30.47'	42.76'	N44°26'48"E	90°54'00"
C2	30.00'	46.65'	29.53'	42.09'	S45°33'12"E	89°06'00"
C3	40.00'	34.06'	18.14'	33.04'	N25°23'53"W	48°47'23"
C4	45.00'	19.13'	9.71'	18.98'	S37°36'56"E	24°21'17"
C5	45.00'	40.05'	21.46'	38.74'	S0°03'29"W	50°59'34"

CURVE TABLE						
CURVE	RADIUS	LENGTH	TANGENT	CHORD	BEARING	DELTA
C6	45.00'	33.70'	17.68'	32.91'	S47°00'22"W	42°54'12"
C7	45.00'	33.70'	17.68'	32.91'	S89°54'33"W	42°54'12"
C8	45.00'	33.70'	17.68'	32.91'	N47°11'15"W	42°54'12"
C9	45.00'	40.93'	22.00'	39.53'	N0°19'08"E	52°06'35"
C10	45.00'	16.82'	8.51'	16.72'	N37°04'49"E	21°24'46"
C11	40.00'	34.06'	18.14'	33.04'	S23°23'30"W	48°47'23"



CITY DEVELOPMENT DEPARTMENT  
REVIEWED

NOTE:  
ALL WHEELCHAIR RAMP  
TO BE BY DEVELOPER



BENCHMARK	
CITY MONUMENT AT THE CENTERLINE INTERSECTION OF COPPER CANYON DRIVE AND COPPER MINE LANE. ELEVATION 4007.42	.....CITY DATUM
DATE	REVISIONS
04/19/13	2ND SET OF CITY COMMENTS
	R.R.

PROJECT NAME  
**MESQUITE HILLS UNIT SEVEN**  
BEING PORTION OF TRACTS 5 AND 6, SECTION 16, BLOCK  
80, TOWNSHIP 1, TEXAS AND PACIFIC RAILROAD CO.  
SURVEYS, CITY OF EL PASO, EL PASO COUNTY, TEXAS  
CONTAINING: 106.76 ACRES

SCALE  
HORIZ: 1" = 30'  
VERT: 1" = 10'  
DATE: DEC. 2012  
DESIGN BY: YC  
INITIATED BY: RR  
CHECKED BY: YC & FC  
JOB NO.: 512-24

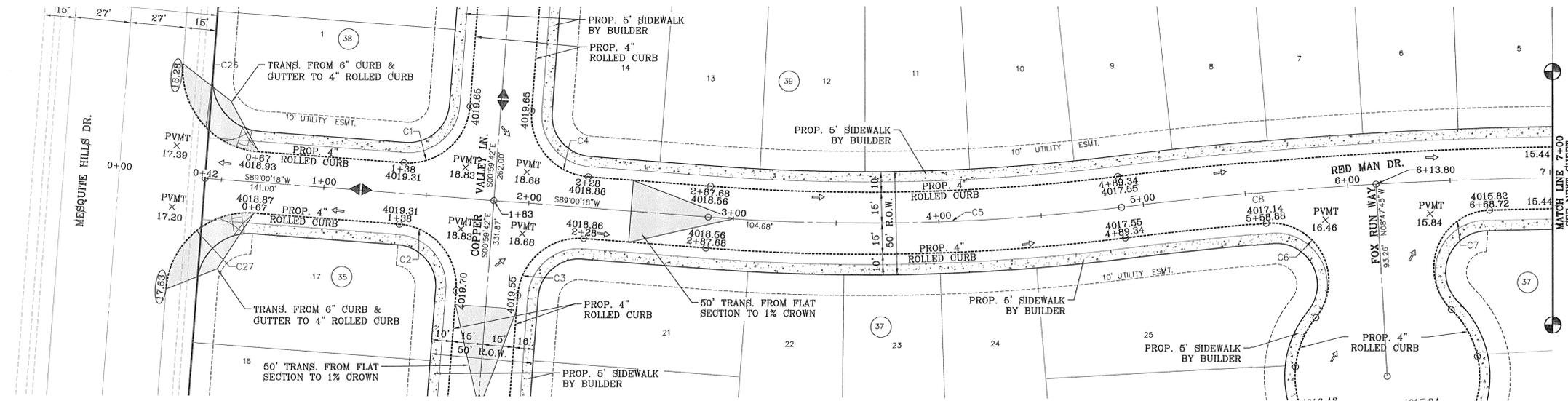
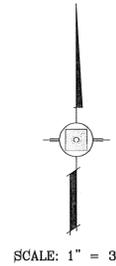


CONDE INC.  
ENGINEERING / PLANNING  
SURVEYING / GPS  
6080 SURETY DR. STE 100  
EL PASO, TEXAS 79905  
PHONE: (915) 592-0283  
FAX: (915) 592-0286



SHEET TITLE  
**STREET  
PLAN-PROFILE**  
**NORTH  
BREEZE PL.  
IN ITS  
ENTIRETY**

CURVE TABLE						
CURVE	RADIUS	LENGTH	TANGENT	CHORD	BEARING	DELTA
C1	30.00'	47.12'	30.00'	42.43'	N44°00'18"E	90°00'00"
C2	30.00'	47.12'	30.00'	42.43'	N45°59'42"W	90°00'00"
C3	30.00'	47.12'	30.00'	42.43'	S44°00'18"W	90°00'00"
C4	30.00'	47.12'	30.00'	42.43'	S45°59'42"E	90°00'00"
C5	1000.00'	201.66'	201.66'	101.17'	N83°13'41"E	11°33'14"
C6	28.00'	65.65'	66.51'	51.61'	N33°17'00"W	134°20'12"
C7	28.00'	65.65'	66.51'	51.61'	S15°41'31"W	134°20'12"
C8	1900.00'	124.46'	62.25'	124.44'	S79°19'40"W	3°45'12"

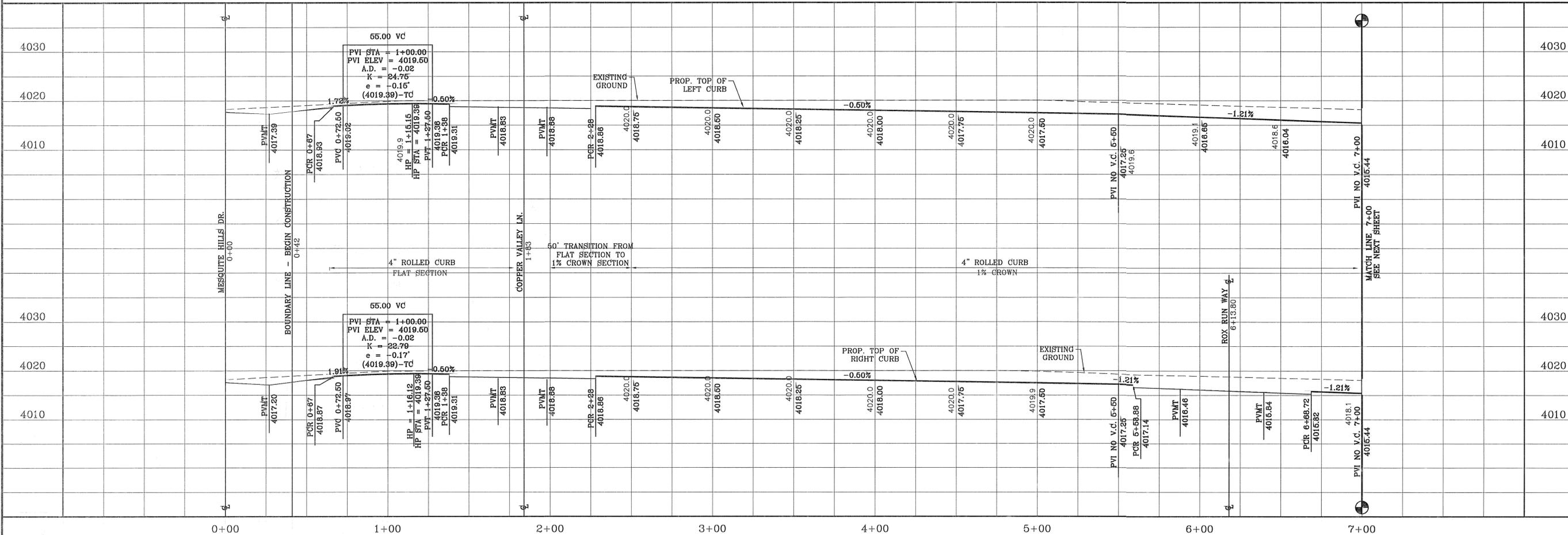


DENOTES AS BUILT CONDITION

NOTE:  
ALL WHEELCHAIR RAMPS  
TO BE BY DEVELOPER



FILE: S:\Subdivisions\MESQUITE HILLS 7\DWG\PP-RED MAD PLOTTED Thursday, May 01, 2014 4:50:09 PM



BENCHMARK  
CITY MONUMENT AT THE CENTERLINE INTERSECTION OF  
COPPER CANYON DRIVE AND COPPER MINE LANE  
ELEVATION 4007.42 .....CITY DATUM

DATE	REVISIONS	BY
04/19/13		R.R.

PROJECT NAME  
**MESQUITE HILLS UNIT SEVEN**  
BEING PORTION OF TRACTS 5 AND 6, SECTION 16, BLOCK  
147, MAP OF CITY OF EL PASO, TEXAS  
SURVEYED BY: EL PASO COUNTY, TEXAS  
CONTAINING: 108.76 ACRES

SCALE  
HORIZ: 1" = 30'  
VERT: 1" = 10'

DATE: DEC. 2012  
DESIGN BY: YC  
INITIATED BY: RR  
CHECKED BY: YC & FC  
JOB NO.: 512-24

ENGINEER'S SEAL

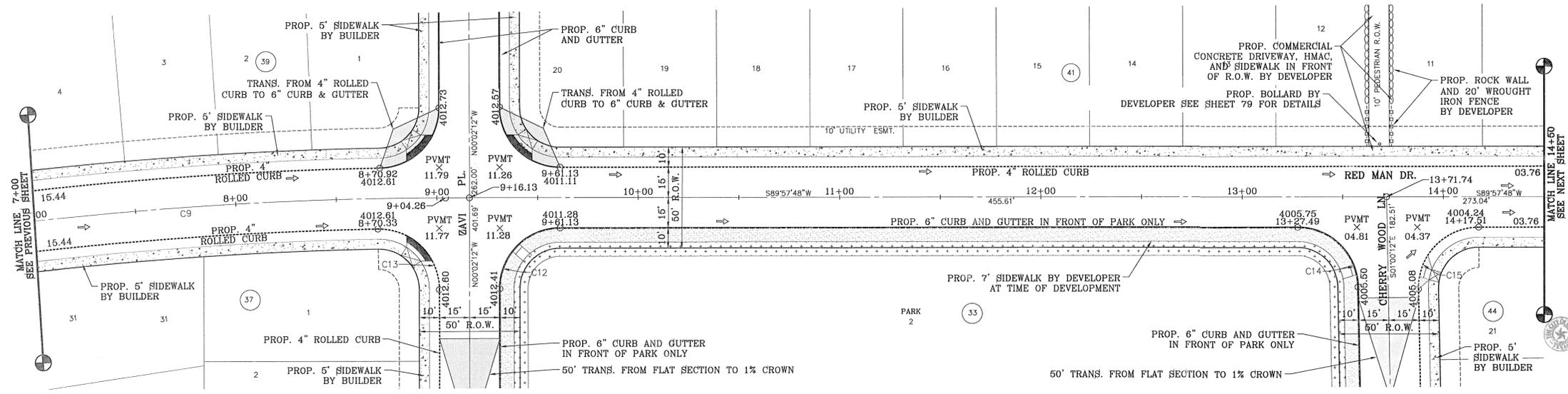
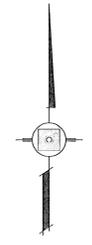
**CONDE INC.**  
ENGINEERING / PLANNING  
SURVEYING / GPS  
6080 SURETY DR. STE 100  
EL PASO, TEXAS 79906  
PHONE: (915) 592-0283  
FAX: (915) 592-0286

SHEET TITLE  
**STREET  
PLAN-PROFILE  
RED MAN  
DR.**  
STA: 0+00  
TO  
STA: 7+00

SHT 43 OF 80  
MESQUITE HILLS UNIT SEVEN

CURVE TABLE						
CURVE	RADIUS	LENGTH	TANGENT	CHORD	BEARING	DELTA
C9	1900.00'	290.46'	145.52'	290.18'	S85°35'02"W	8°45'33"
C10	30.00'	46.60'	29.48'	42.05'	N44°27'38"E	88°59'40"
C11	30.00'	47.12'	30.00'	42.43'	S45°02'12"E	90°00'00"
C12	30.00'	47.12'	30.00'	42.43'	S44°57'48"W	90°00'00"
C13	30.00'	47.66'	30.54'	42.80'	N45°32'54"W	91°01'24"
C14	30.00'	46.62'	29.50'	42.07'	N45°31'12"W	89°02'00"
C15	30.00'	47.63'	30.51'	42.78'	S44°28'48"W	90°58'00"

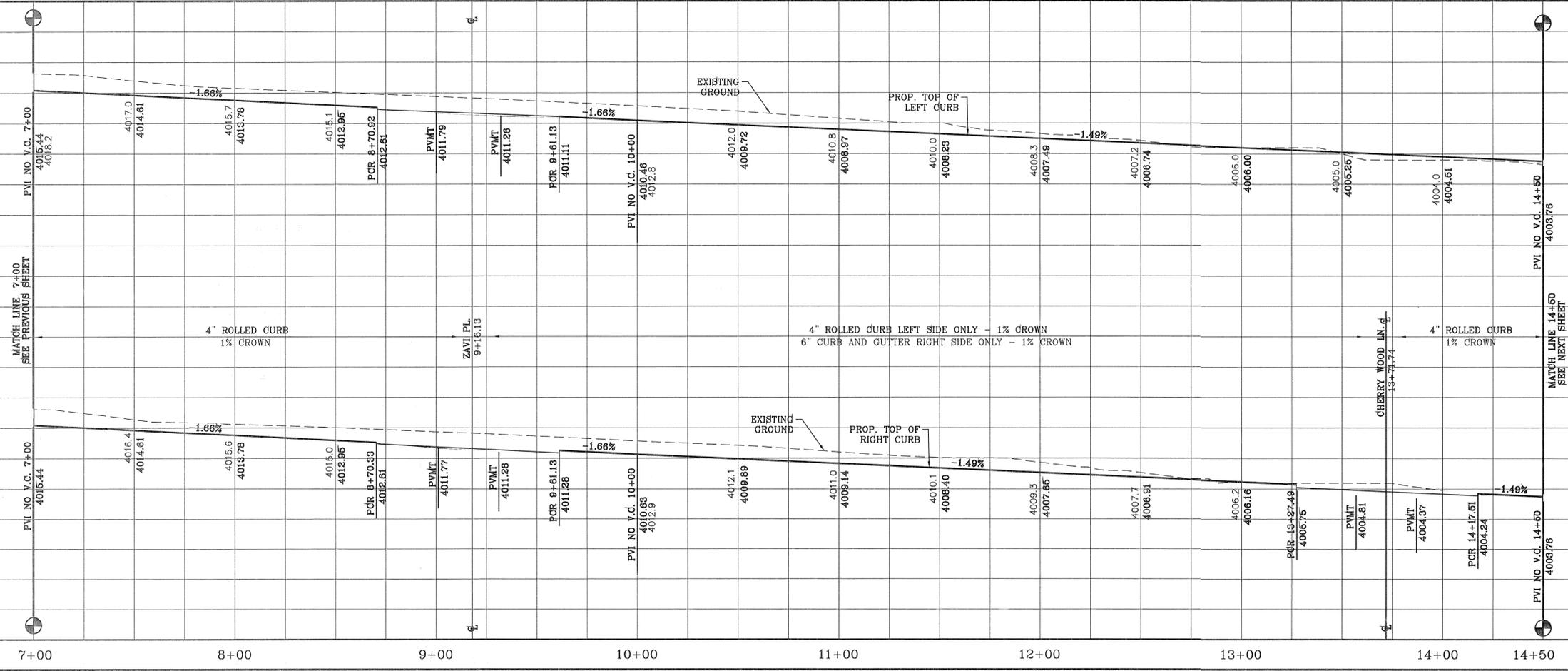
SCALE: 1" = 30'



NOTE:  
ALL WHEELCHAIR RAMPS  
TO BE BY DEVELOPER

CITY DEVELOPMENT DEPARTMENT

REVIEWED



REVISIONS	DATE	BY	R.R.
2ND SET OF CITY COMMENTS	04/19/13		

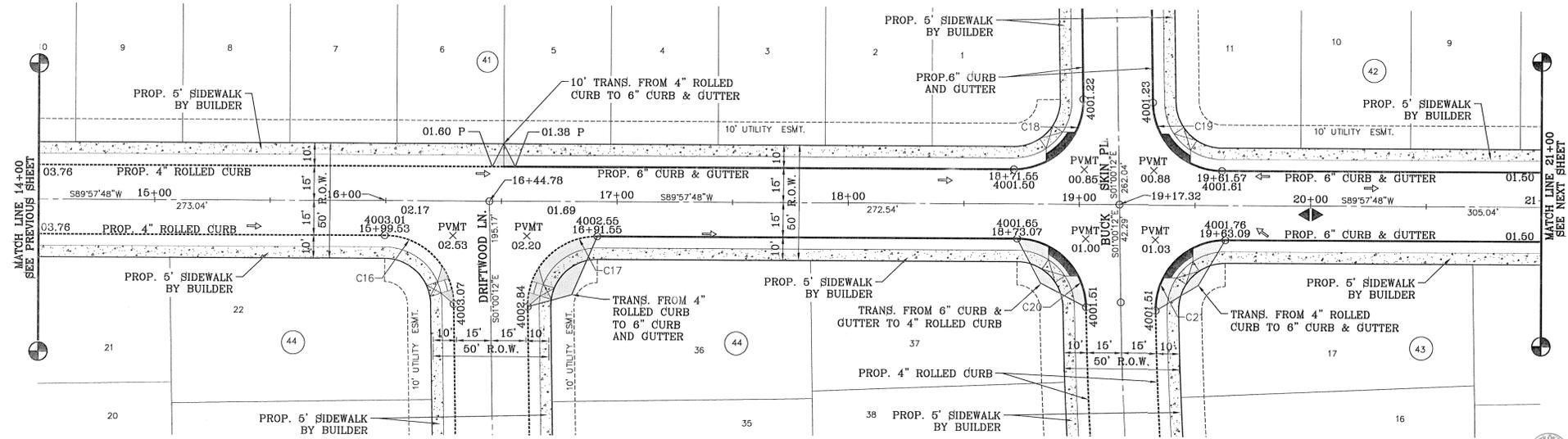
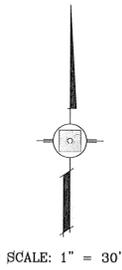
**MESQUITE HILLS UNIT SEVEN**  
BEING PORTION OF TRACTS 5 AND 6, SECTION 16, BLOCK 80, TOWNSHIP 1, TEXAS AND PACIFIC RAILROAD CO. SURVEYS, CITY OF EL PASO, EL PASO COUNTY, TEXAS CONTAINING: 1.08.78 ACRES

ENGINEER'S SEAL  
S.C.A.L.E.  
HORIZ: 1" = 30'  
VERT: 1" = 10'  
DATE: DEC. 2012  
DESIGN BY: YC  
INITIATED BY: RR  
CHECKED BY: YC & FC  
JOB NO.: 512-24

**CONDE INC.**  
ENGINEERING / PLANNING  
SURVEYING / GPS  
6080 SURVEY DR. STE. 100  
EL PASO, TEXAS 79905  
PHONE: (915) 592-0283  
FAX: (915) 592-0286

SHEET TITLE  
**STREET PLAN - PROFILE**  
**RED MAN DR.**  
STA: 7+00 TO STA: 14+00  
SHT 44 OF 80

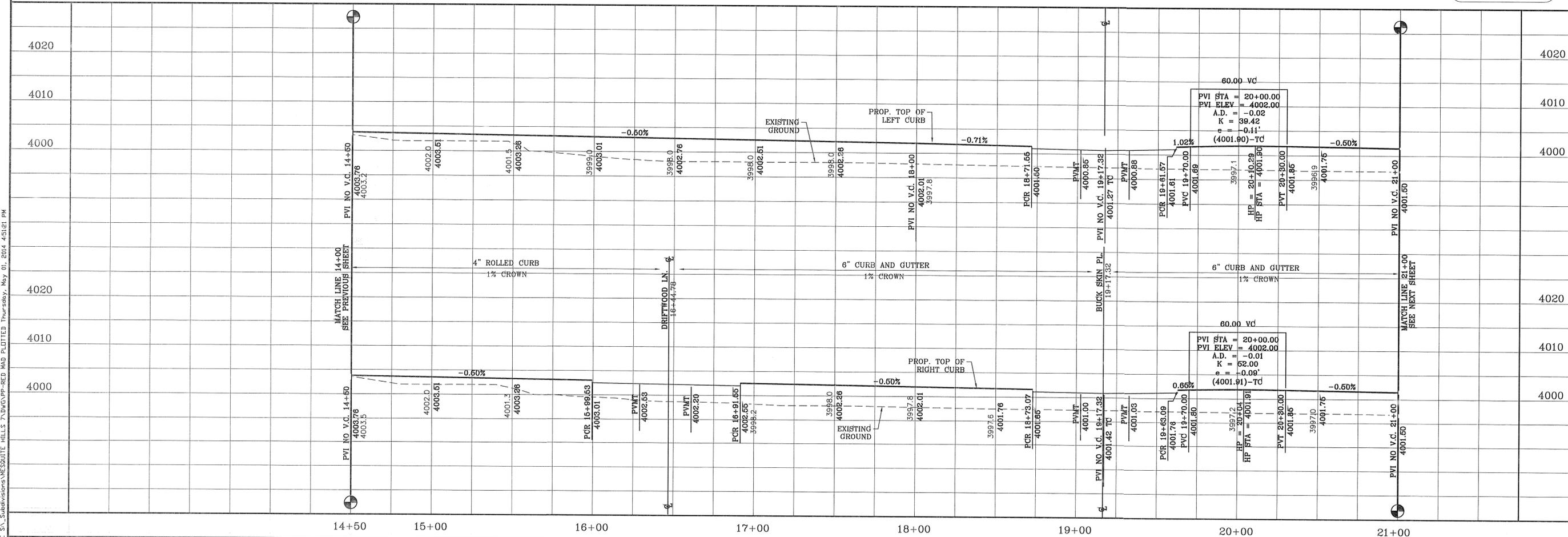
CURVE TABLE						
CURVE	RADIUS	LENGTH	TANGENT	CHORD	BEARING	DELTA
C16	30.00'	46.62'	29.50'	42.07'	N45°31'12"W	89°02'00"
C17	30.00'	47.63'	30.51'	42.78'	S44°28'48"W	90°58'00"
C18	30.00'	47.63'	30.51'	42.78'	N44°28'48"E	90°58'00"
C19	30.00'	46.62'	29.50'	42.07'	S45°31'12"E	89°02'00"
C20	30.00'	46.58'	29.46'	42.04'	N45°33'22"W	88°57'39"
C21	30.00'	47.70'	30.58'	42.83'	S44°24'42"W	91°06'12"



CITY DEVELOPMENT DEPARTMENT

REVIEWED

NOTE:  
ALL WHEELCHAIR RAMPS  
TO BE BY DEVELOPER



DATE	REVISIONS	BY	R.R.
04/19/13	2ND SET OF CITY COMMENTS		

PROJECT NAME  
**MESQUITE HILLS UNIT SEVEN**  
BEING PORTION OF TRACTS 5 AND 6 SECTION 16 BLOCK 80 TOWNSHIP 1 TEXAS AND PACIFIC RAILROAD SURVEYS, CITY OF EL PASO, EL PASO COUNTY, TEXAS CONTAINING: 108.78 ACRES

SCALE  
HORIZ: 1" = 30'  
VERT: 1" = 10'  
DATE: DEC. 2012  
DESIGN BY: YC  
INITIATED BY: RR  
CHECKED BY: YC & FC  
JOB NO.: 512-24



ENGINEER'S SEAL  
**CONDE INC.**  
ENGINEERING / PLANNING  
SURVEYING / GFS  
6080 SURETY DR. STE 100  
EL PASO, TEXAS 79905  
PHONE: (915) 592-0285  
FAX: (915) 592-0286

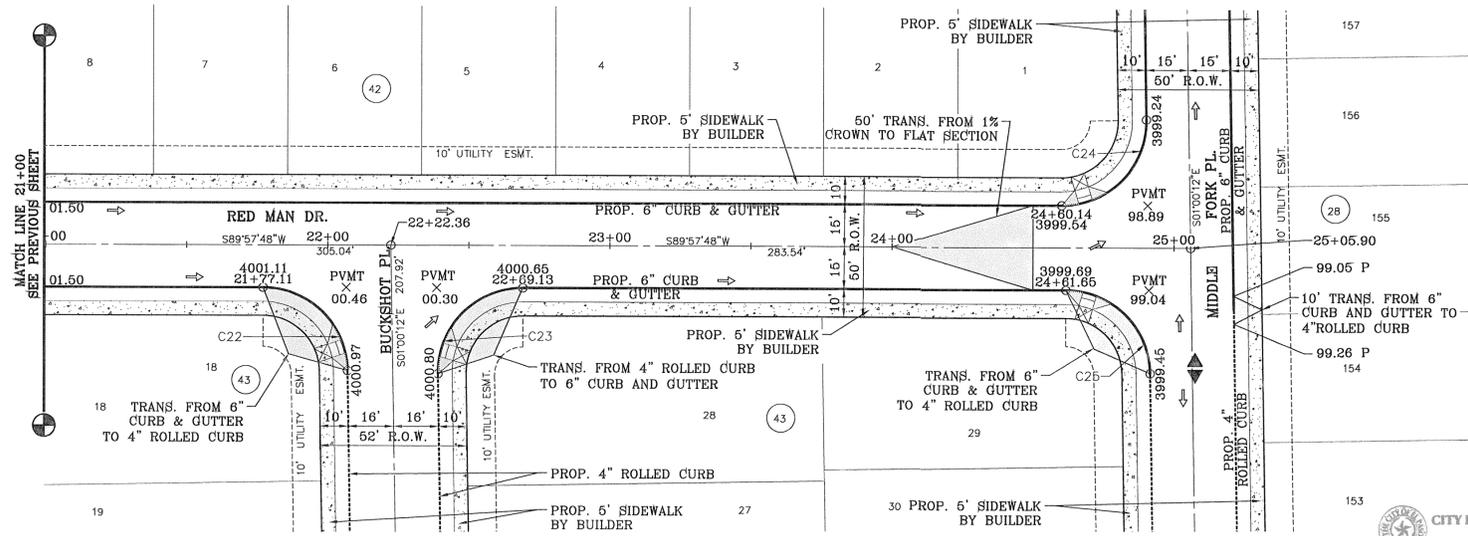
SHEET TITLE  
**STREET PLAN - PROFILE**  
**RED MAN DR.**  
STA: 14+00 TO STA: 21+00

FILE: S:\Subdivisions\MESQUITE HILLS 7\DWG\PP-RED.MXD PLOTTED Thursday, May 01, 2014 4:51:21 PM

FILE: S:\\_Subdivisions\MESQUITE HILLS 7\DWG\VP-RED MAN PLOTTED Thursday, May 01, 2014 4:51:28 PM

CURVE TABLE						
CURVE	RADIUS	LENGTH	TANGENT	CHORD	BEARING	DELTA
C22	30.00'	46.62'	29.50'	42.07'	N45°31'12"W	89°02'00"
C23	30.00'	47.63'	30.51'	42.78'	S44°28'48"W	90°58'00"
C24	30.00'	47.63'	30.51'	42.78'	N44°28'48"E	90°58'00"
C25	30.00'	46.62'	29.50'	42.07'	N45°31'12"W	89°02'00"

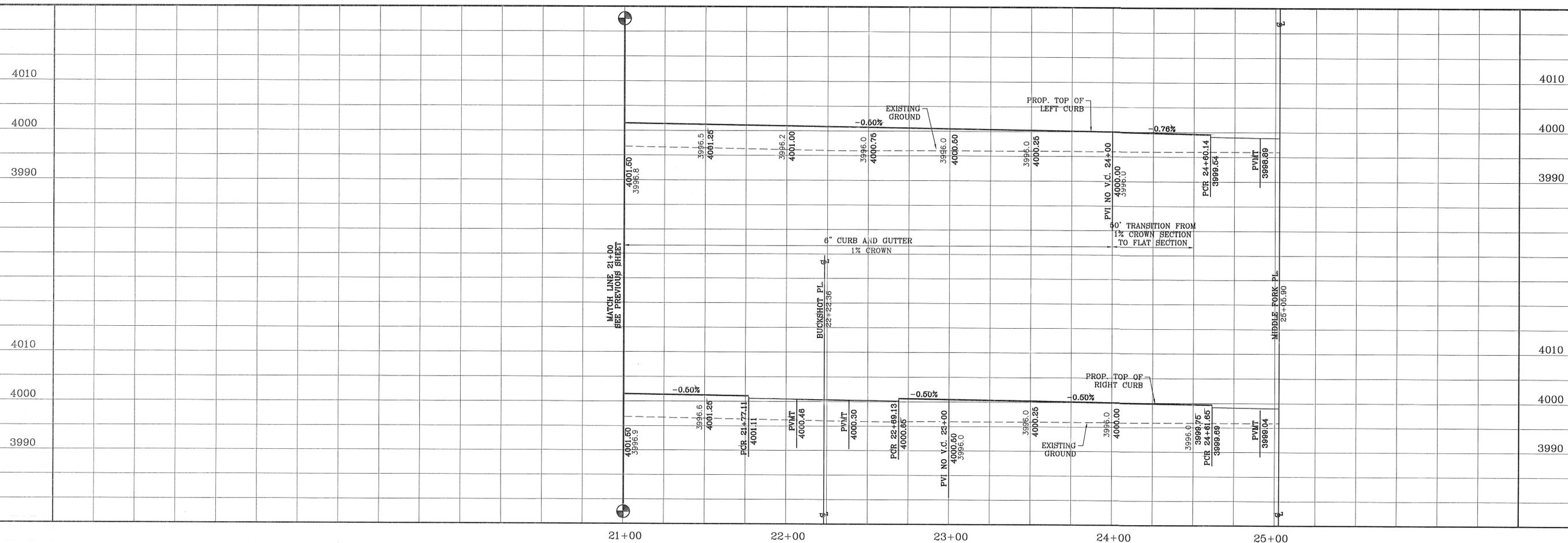
SCALE: 1" = 30'



CITY DEVELOPMENT DEPARTMENT

REVIEWED

NOTE:  
ALL WHEELCHAIR RAMP  
TO BE BY DEVELOPER



BENCHMARK	
CITY MONUMENT AT THE CENTERLINE INTERSECTION OF COPPER CANYON DRIVE AND COPPER MINE LANE. ELEVATION 4007.42	CITY DATUM
DATE	REVISIONS
04/19/13	2ND SET OF CITY COMMENTS

PROJECT NAME  
**MESQUITE HILLS UNIT SEVEN**  
BEING PORTION OF TRACTS 5 AND 6, SECTION 16, BLOCK  
80, TOWNSHIP 1, TEXAS AND PACIFIC RAILROAD CO.  
SURVEYS, CITY OF EL PASO, EL PASO COUNTY, TEXAS  
CONTAINING: 108.78 ACRES

SCALE  
HORIZ: 1" = 30'  
VERT: 1" = 10'  
DATE: DEC. 2012  
DESIGN BY: YC  
INITIATED BY: RR  
CHECKED BY: YC & JC  
JOB NO.: 512-24



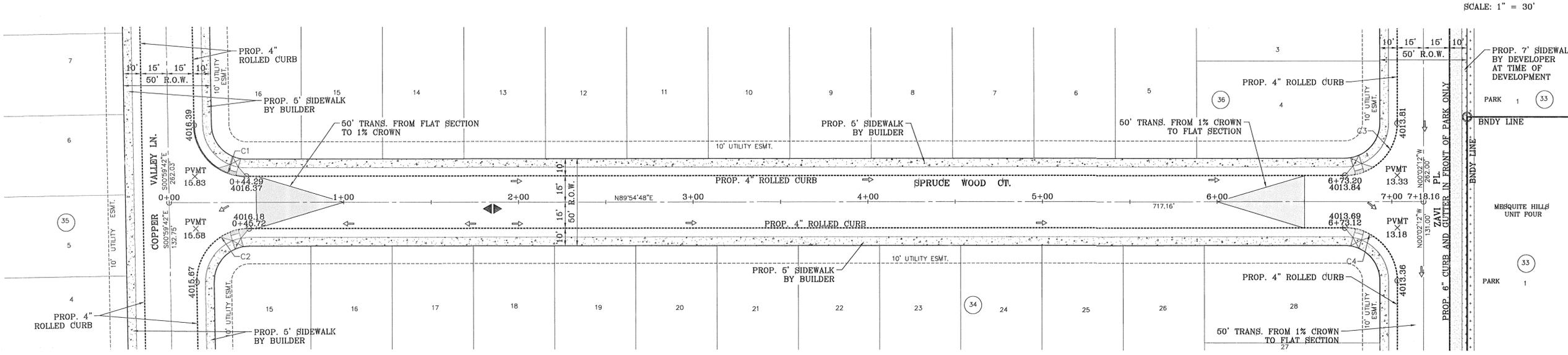
**CONDE INC.**  
ENGINEERING / PLANNING  
SURVEYING / GPS  
6080 SUPREMY DR. STE 100  
EL PASO, TEXAS 79905  
PHONE: (915) 592-0283  
FAX: (915) 592-0286



SHEET TITLE  
**STREET  
PLAN-PROFILE  
RED MAN  
DR.  
STA: 21+00  
TO  
STA: 25+05.90**

FILE: S:\Subdivisions\MESQUITE HILLS 7\DWG\SP-SPRUCE WOOD PLINTED Thursday, May 01, 2014 4:51:40 PM

CURVE TABLE						
CURVE	RADIUS	LENGTH	TANGENT	CHORD	BEARING	DELTA
C1	30.00'	46.65'	29.53'	42.09'	S45°32'27"E	89°05'30"
C2	30.00'	47.60'	30.48'	42.76'	S44°27'33"W	90°54'30"
C3	30.00'	47.10'	29.97'	42.41'	N44°56'18"E	89°57'00"
C4	30.00'	47.15'	30.03'	42.44'	N45°03'42"W	90°03'00"

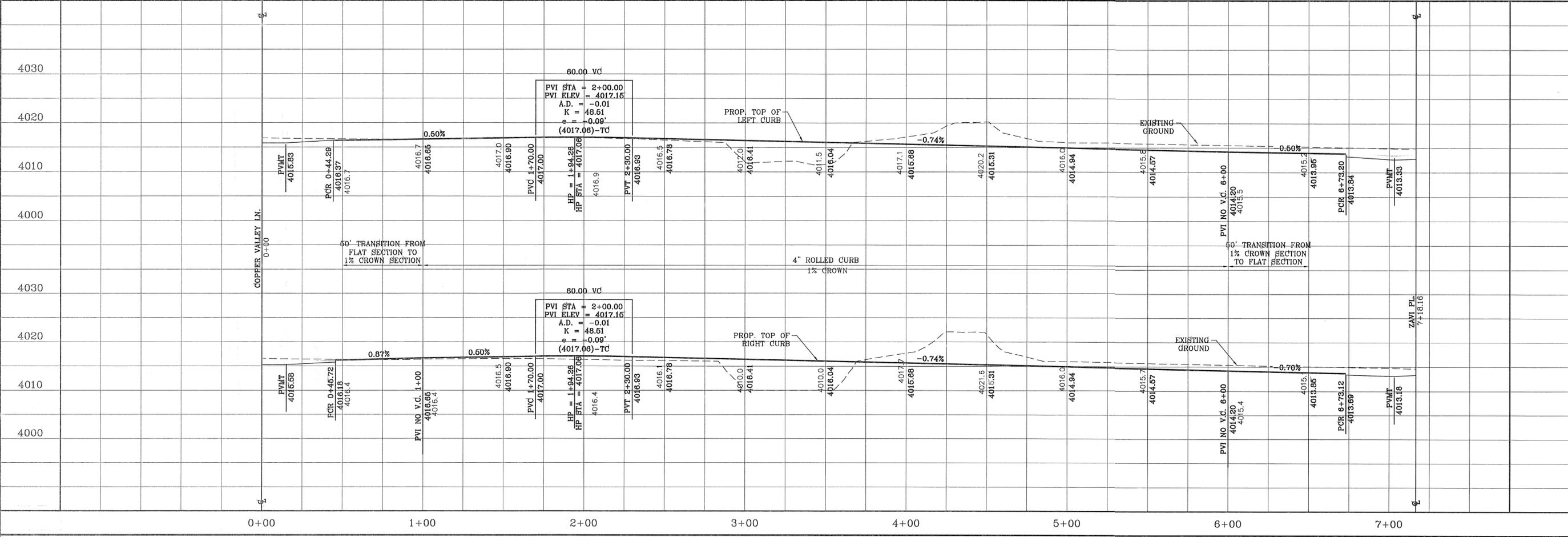


SCALE: 1" = 30'

CITY DEVELOPMENT DEPARTMENT

REVIEWED

NOTE: ALL WHEELCHAIR RAMP TO BE BY DEVELOPER



BENCHMARK

CITY MONUMENT AT THE CENTERLINE INTERSECTION OF COPPER CANYON DRIVE AND COPPER MINE LANE. ELEVATION 4007.42

PROJECT NAME

MESQUITE HILLS UNIT SEVEN  
BEING PORTION OF TRACTS 5 AND 6, SECTION 16, BLOCK 80, TOWNSHIP 1, TEXAS AND PACIFIC RAILROAD CO. SURVEYS. CITY OF EL PASO, EL PASO COUNTY, TEXAS. CONTAINING: 108.78 ACRES

SCALE

HORIZ: 1" = 30'

VERT: 1" = 10'

DATE: DEC. 2012

DESIGN BY: YC

INITIATED BY: RR

CHECKED BY: YC & FC

JOB NO.: 512-24

ENGINEER'S SEAL

CONDE INC.  
ENGINEERING / PLANNING  
SURVEYING / GFS  
6080 SURETY DR. STE 100  
EL PASO, TEXAS 79905  
PHONE: (915) 582-0283  
FAX: (915) 582-0266

SHEET TITLE

STREET

PLAN - PROFILE

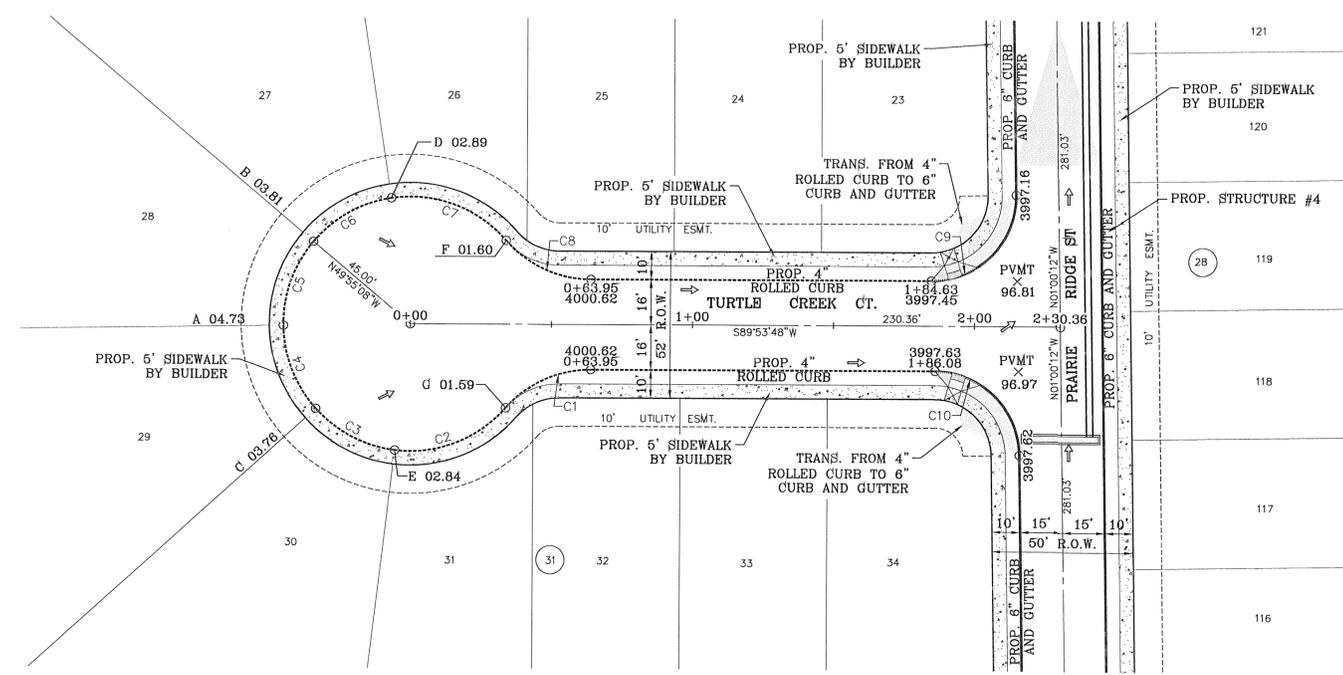
SPRUCE WOOD CT.  
IN ITS ENTIRETY

SHT 47 OF 80

FILE: S:\\_Subdivisions\MESQUITE HILLS 7\DWGAPP-TURTLE CREEK PLOTTED Thursday, May 01, 2014 4:51:52 PM

CURVE TABLE						
CURVE	RADIUS	LENGTH	TANGENT	CHORD	BEARING	DELTA
C1	40.00'	34.06'	18.14'	33.04'	S65°30'07"W	48°47'23"
C2	45.00'	43.73'	23.77'	42.03'	N68°56'55"E	55°41'00"
C3	45.00'	32.28'	16.87'	31.59'	S62°39'40"E	41°05'49"
C4	45.00'	32.28'	16.87'	31.59'	S21°33'51"E	41°05'49"
C5	45.00'	32.28'	16.87'	31.59'	S19°31'58"W	41°05'49"

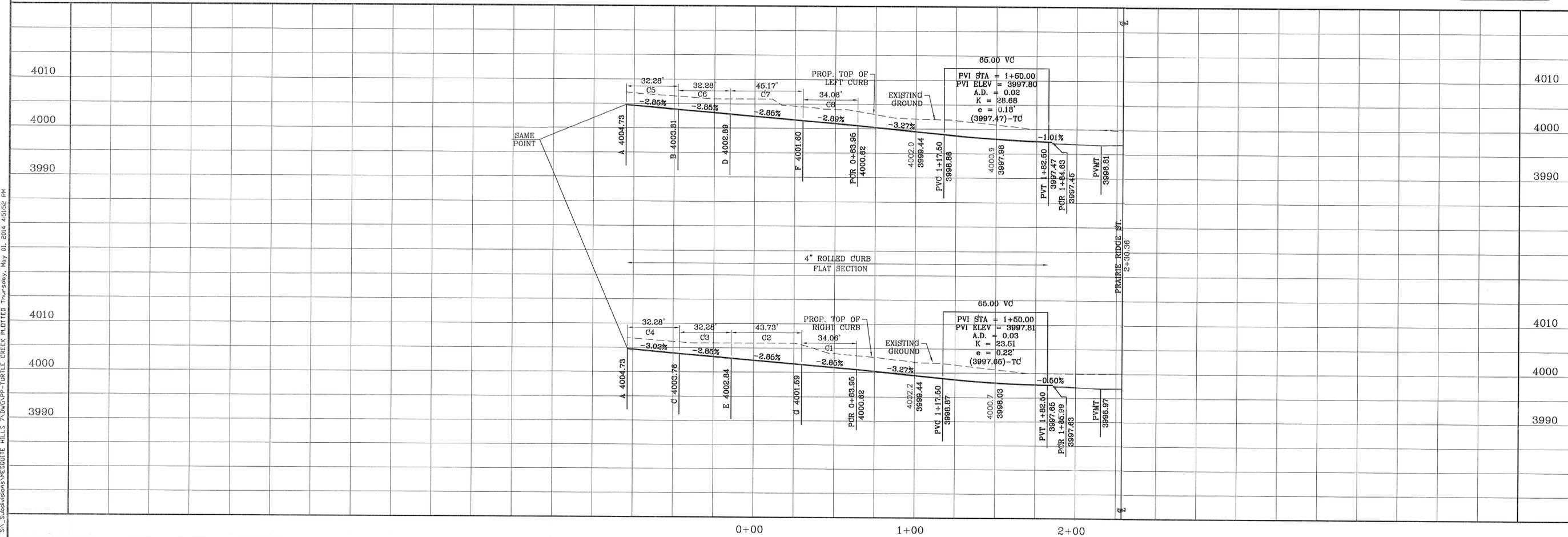
CURVE TABLE						
CURVE	RADIUS	LENGTH	TANGENT	CHORD	BEARING	DELTA
C6	45.00'	32.28'	16.87'	31.59'	S60°37'47"W	41°05'49"
C7	45.00'	45.17'	24.69'	43.29'	N70°04'04"W	57°30'30"
C8	40.00'	34.06'	18.14'	33.04'	S65°42'30"E	48°47'23"
C9	30.00'	47.60'	30.47'	42.76'	N44°26'48"E	90°54'00"
C10	30.00'	46.65'	29.53'	42.09'	N45°33'12"W	89°06'00"



SCALE: 1" = 30'

CITY DEVELOPMENT DEPARTMENT  
**REVIEWED**

**NOTE:**  
ALL WHEELCHAIR RAMPS  
TO BE BY DEVELOPER



**PROJECT NAME**  
MESQUITE HILLS UNIT SEVEN  
BEING PORTION OF TRACTS 5 AND 6, SECTION 16, BLOCK 80, TOWNSHIP 1, TEXAS AND PACIFIC RAILROAD CO. SURVEYS, CITY OF EL PASO, EL PASO COUNTY, TEXAS CONTAINING: 108.78 ACRES

**BENCHMARK**  
CITY MONUMENT AT THE CENTERLINE INTERSECTION OF COPPER CANYON DRIVE AND COPPER MINE LANE. ELEVATION 4007.42 ..... CITY DATUM

**DATE** 04/19/13  
**BY** YC  
**REVISIONS**  
**R.R.** 2ND SET OF CITY COMMENTS

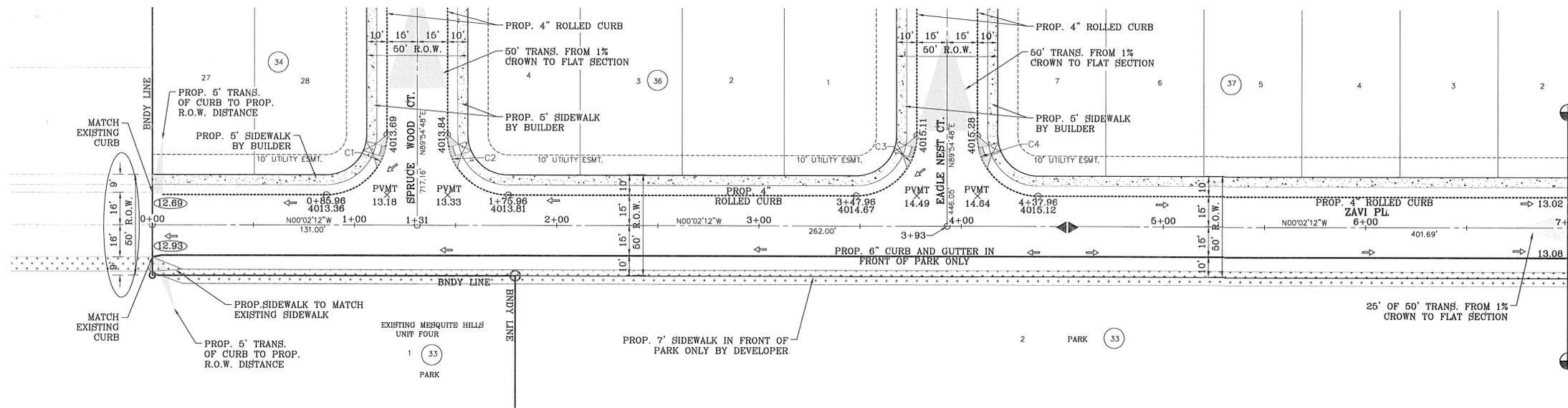
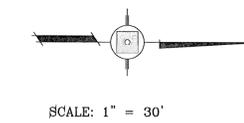
**SCALE**  
HORIZ: 1" = 30'  
VERT: 1" = 10'  
DATE: DEC 2012  
DESIGN BY: YC  
INITIATED BY: RR  
CHECKED BY: YC & FC  
JOB NO.: 512-24

**ENGINEER'S SEAL**  
CONDE INC. ENGINEERING / PLANNING SURVEYING / GFS  
6080 SURETY DR. STE 100  
EL PASO, TEXAS 79905  
PHONE: (915) 592-0283  
FAX: (915) 592-0286

**SHEET TITLE**  
STREET PLAN-PROFILE  
**TURTLE CREEK CT.**  
IN ITS ENTIRETY

**SHT 48 OF 80**

CURVE TABLE						
CURVE	RADIUS	LENGTH	TANGENT	CHORD	BEARING	DELTA
C1	30.00'	47.15'	30.03'	42.44'	N45°03'42"W	90°03'00"
C2	30.00'	47.10'	29.97'	42.41'	N44°56'18"E	89°57'00"
C3	30.00'	47.15'	30.03'	42.44'	N45°03'42"W	90°03'00"
C4	30.00'	47.10'	29.97'	42.41'	N44°56'18"E	89°57'00"



DENOTES AS BUILT CONDITION

NOTE:  
ALL WHEELCHAIR RAMP  
TO BE BY DEVELOPER

CITY DEVELOPMENT DEPARTMENT  
**REVIEWED**

BENCHMARK	CITY MONUMENT AT THE CENTERLINE INTERSECTION OF COPPER CANYON DRIVE AND COPPER MINE LANE ELEVATION 4007.42	DATE	04/19/13
BY	REVISIONS	DATE	
BY	2ND SET OF CITY COMMENTS	DATE	

**MESQUITE HILLS UNIT SEVEN**  
BEING PART OF TRACTS 5 AND 6 SECTION 16, BLOCK 160, TOWNSHIP 10S, RANGE 12E, COUNTY, TEXAS SURVEYS, CITY OF EL PASO, EL PASO COUNTY, TEXAS CONTAINING: 108.78 ACRES

SCALE  
HORIZ: 1" = 30'  
VERT: 1" = 10'  
DATE: DEC. 2012  
DESIGN BY: YC  
INITIATED BY: RR  
CHECKED BY: YC & FC  
JOB NO.: 512-24

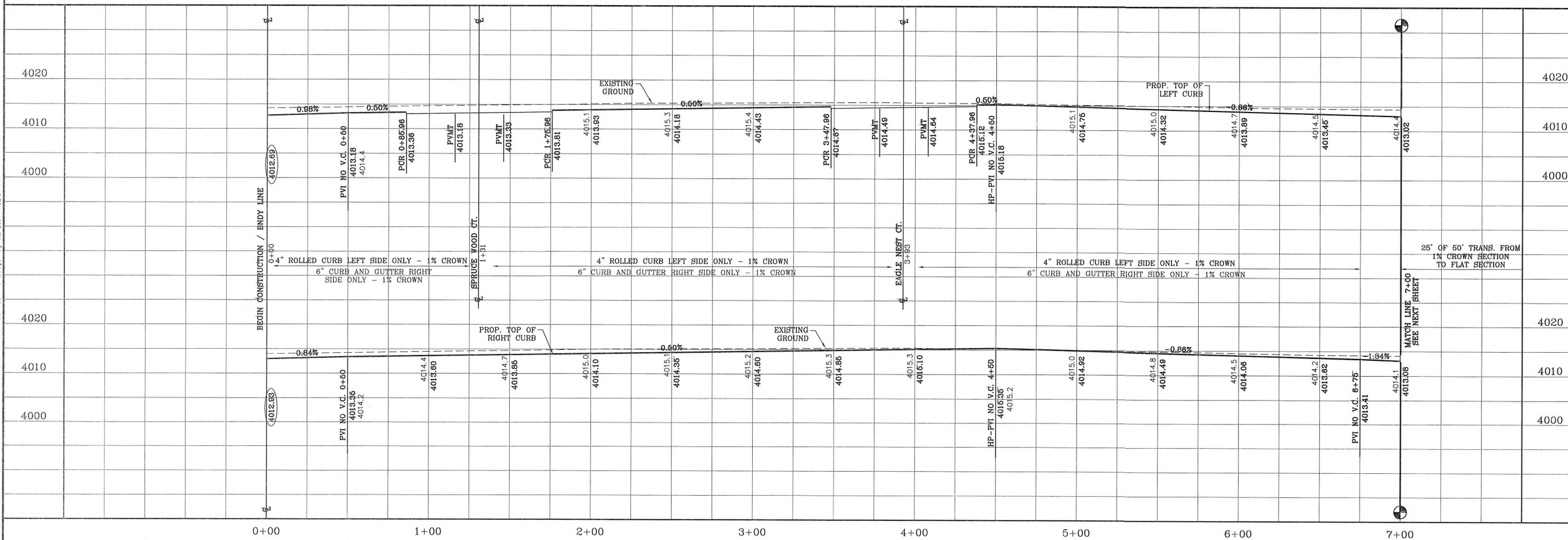


**CONDE INC.**  
ENGINEERING / PLANNING  
SURVEYING / GPS  
6080 SURETY DR. STE 100  
EL PASO, TEXAS 79905  
PHONE: (915) 692-0283  
FAX: (915) 692-0286



SHEET TITLE  
**STREET  
PLAN-PROFILE**  
**ZAVI PL.**  
STA: 0+00  
TO  
STA: 7+00

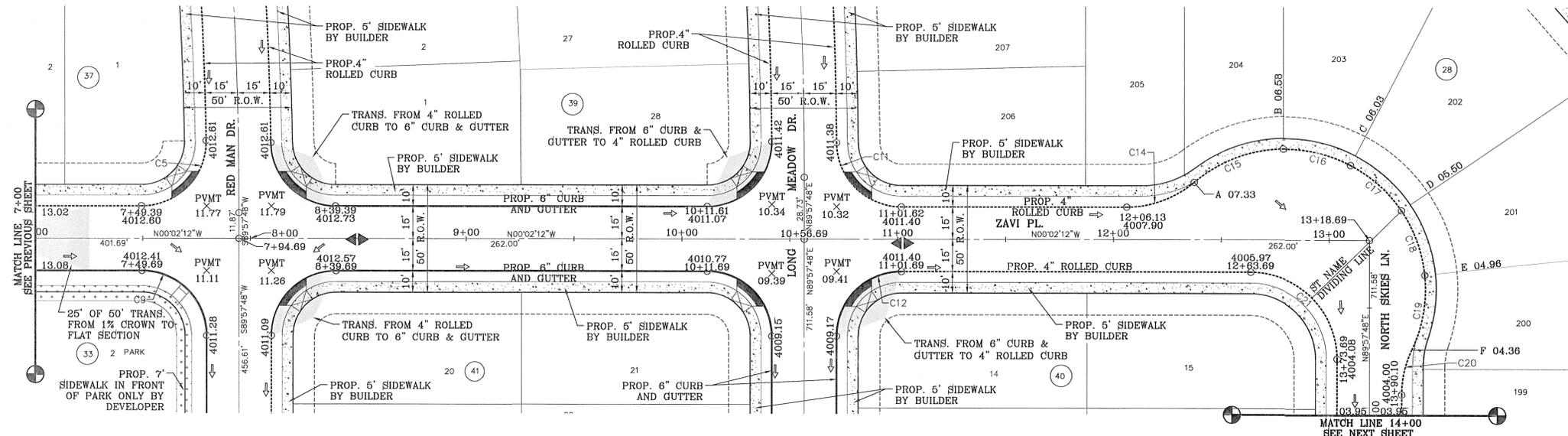
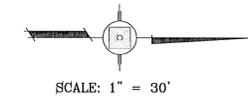
FILE S:\\_Subdivisions\MESQUITE HILLS 7ADWG\PP-ZAVI-NORTH SKIES PLOTTED Thursday, May 01, 2014 4:50:07 PM



FILE S:\Subdivisions\MESQUITE\_HILLS\_7.DWG\PP-ZAVI-NORTH\_SKIES\_PLOTTED\_Thursday, May 01, 2014 4:52:15 PM

CURVE TABLE						
CURVE	RADIUS	LENGTH	TANGENT	CHORD	BEARING	DELTA
C5	30.00'	47.66'	30.54'	42.80'	N45°32'54"W	91°01'24"
C6	30.00'	46.60'	29.48'	42.05'	N44°27'38"E	88°59'40"
C7	30.00'	47.12'	30.00'	42.43'	S45°02'12"E	90°00'00"
C9	30.00'	47.12'	30.00'	42.43'	S44°57'48"W	90°00'00"
C10	30.00'	47.39'	30.27'	42.61'	N45°17'23"W	90°30'22"
C11	30.00'	46.89'	29.76'	42.26'	N44°44'08"E	89°32'39"
C12	30.00'	47.12'	30.00'	42.43'	S45°02'12"E	90°00'00"
C13	30.00'	47.12'	30.00'	42.43'	S44°57'48"W	90°00'00"

CURVE TABLE						
CURVE	RADIUS	LENGTH	TANGENT	CHORD	BEARING	DELTA
C14	48.00'	34.02'	17.76'	33.32'	N20°20'35"W	40°36'45"
C15	65.00'	45.10'	23.50'	44.20'	S20°46'20"E	39°45'14"
C16	65.00'	32.28'	16.48'	31.95'	S13°19'55"W	28°27'16"
C17	65.00'	32.04'	16.35'	31.72'	S41°40'55"W	28°14'44"
C18	65.00'	32.04'	16.35'	31.72'	S69°55'39"W	28°14'44"
C19	65.00'	35.63'	18.27'	35.18'	N80°14'52"W	31°24'14"
C20	48.00'	21.36'	10.86'	21.18'	S77°17'28"E	25°29'27"
C21	40.00'	62.83'	40.00'	56.57'	S44°57'48"W	90°00'00"



CITY DEVELOPMENT DEPARTMENT  
REVIEWED

NOTE:  
ALL WHEELCHAIR RAMPS  
TO BE BY DEVELOPER

BENCHMARK	
CITY MONUMENT AT THE CENTERLINE INTERSECTION OF COPPER CANYON DRIVE AND COPPER MINE LANE. ELEVATION 4007.42	.....CITY DATUM
DATE	REVISIONS
04/19/13	2ND SET OF CITY COMMENTS
BY	R.R.

PROJECT NAME  
**MESQUITE HILLS UNIT SEVEN**  
BEING PORTION OF TRACTS 5 AND 6, SECTION 16, BLOCK 60, TOWNSHIP 1, TEXAS AND PACIFIC RAILROAD CO. SURVEYS, CLAY COUNTY, TEXAS, BEING 106.76 ACRES

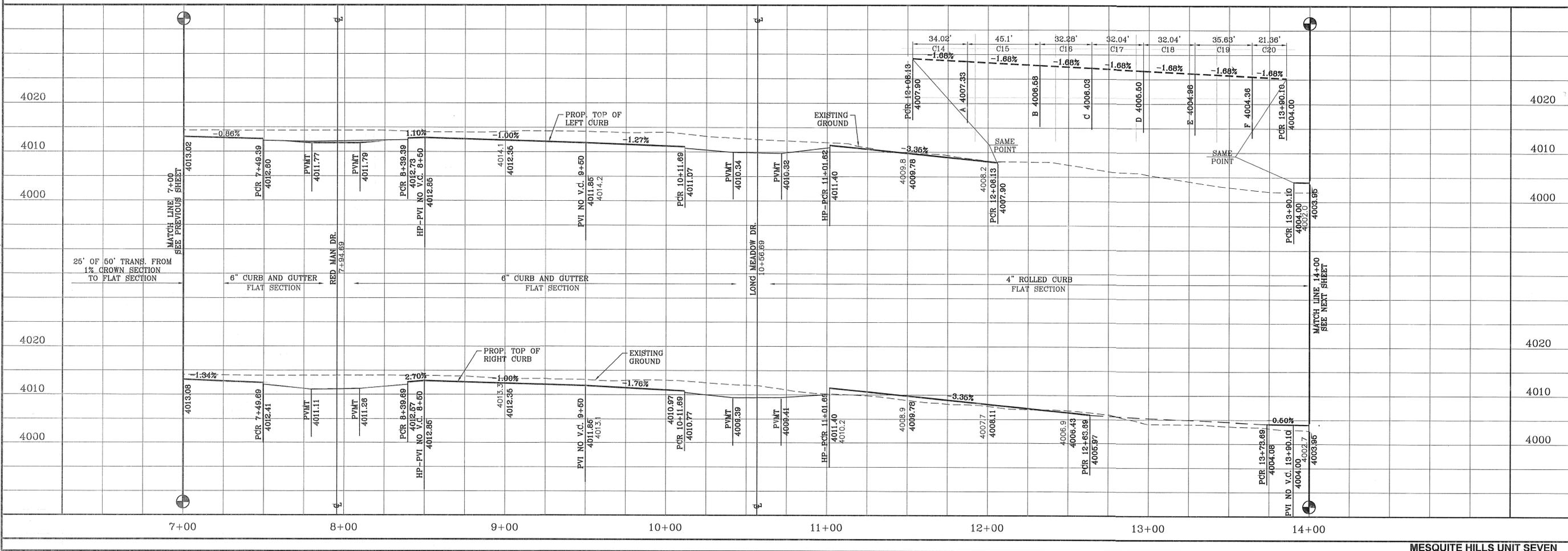
SCALE  
HORIZ: 30'  
VERT: 10'  
DATE: DEC. 2012  
DESIGN BY: YC  
INITIATED BY: RR  
CHECKED BY: YC & FC  
JOB NO.: 612-24



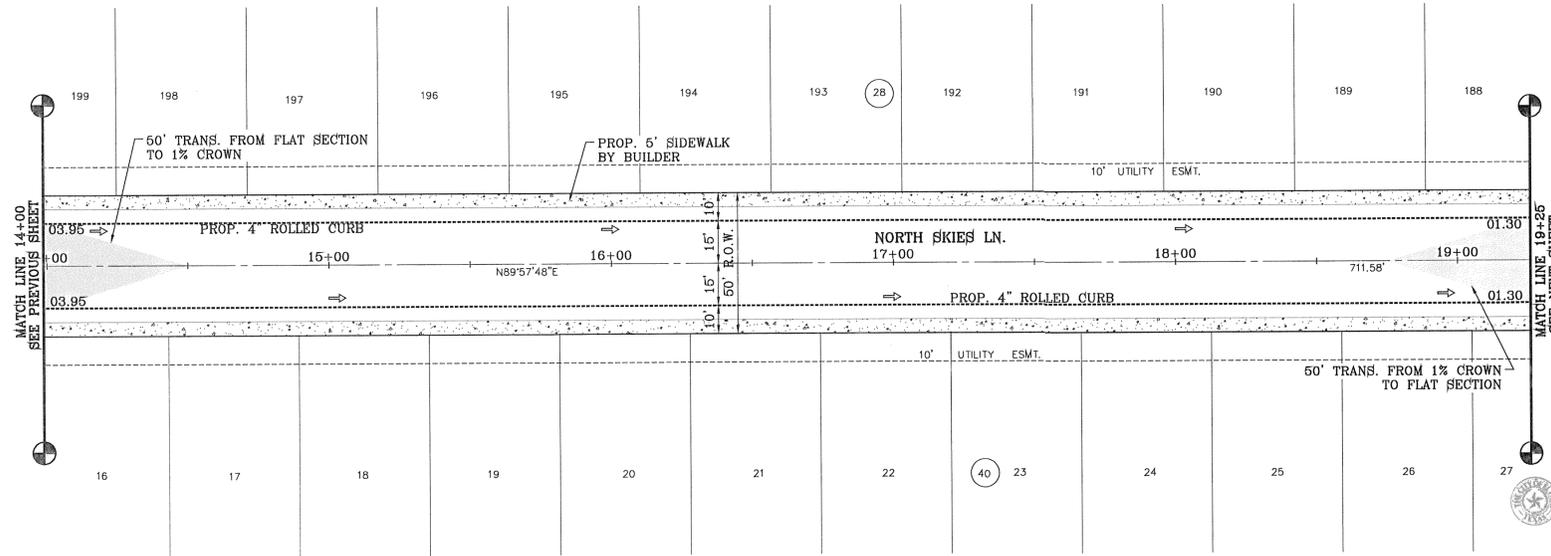
CONDE INC.  
ENGINEERING / PLANNING  
SURVEYING / GPS  
6080 SURETY DR. STE 100  
EL PASO, TEXAS 79905  
PHONE: (915) 592-0283  
FAX: (915) 592-0286

SHEET TITLE  
STREET  
PLAN - PROFILE  
**ZAVI PL. /  
NORTH  
SKIES LN.**  
STA: 7+00  
TO  
STA: 14+00

SHT 50 OF 80



FILE S:\Subdivisions\MESQUITE HILLS 7.DWG\VP-ZAVI-NORTH SKIES PLOTTED Thursday, May 01, 2014 4:58:23 PM

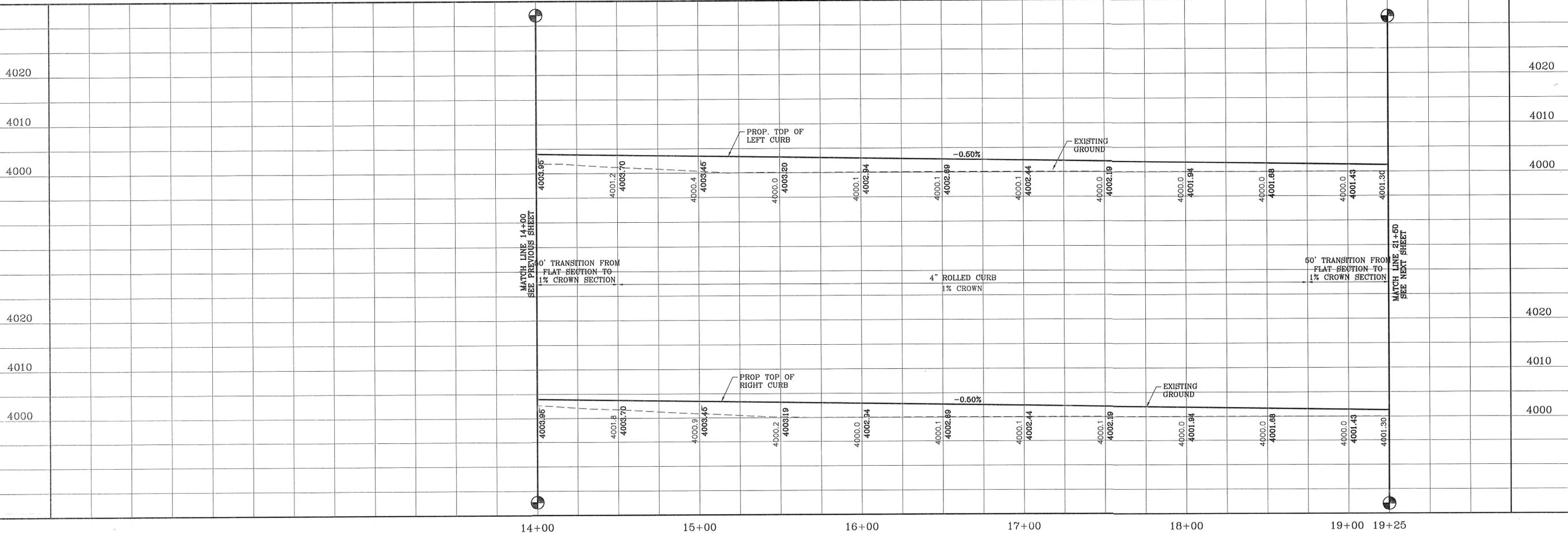


SCALE: 1" = 30'



REVIEWED

NOTE:  
ALL WHEELCHAIR RAMP  
TO BE BY DEVELOPER



BENCHMARK

CITY MONUMENT AT THE CENTERLINE INTERSECTION OF COPPER CANYON DRIVE AND COPPER MOUNTAIN DRIVE	ELEVATION	4007.42	DATE	04/19/13
REVISIONS	BY			
2ND SET OF CITY COMMENTS	R.R.			

PROJECT NAME  
**MESQUITE HILLS UNIT SEVEN**  
BEING PORTION OF TRACTS 5 AND 6, SECTION 16, BLOCK 80, TOWNSHIP 1, TEXAS AND PACIFIC RAILROAD CO. SURVEYS, CITY OF EL PASO, EL PASO COUNTY, TEXAS CONTAINING: 108.76 ACRES

SCALE  
HORIZ: 1" = 30'  
VERT: 1" = 10'  
DATE: DEC. 2012  
DESIGN BY: YC  
INITIATED BY: RR  
CHECKED BY: YC & FC  
JOB NO.: 512-24



**CONDE INC.**  
ENGINEERING / PLANNING  
SURVEYING / GPS  
6080 SURETY DR. STE 100  
EL PASO, TEXAS 79905  
PHONE: (915) 592-0283  
FAX: (915) 592-0286

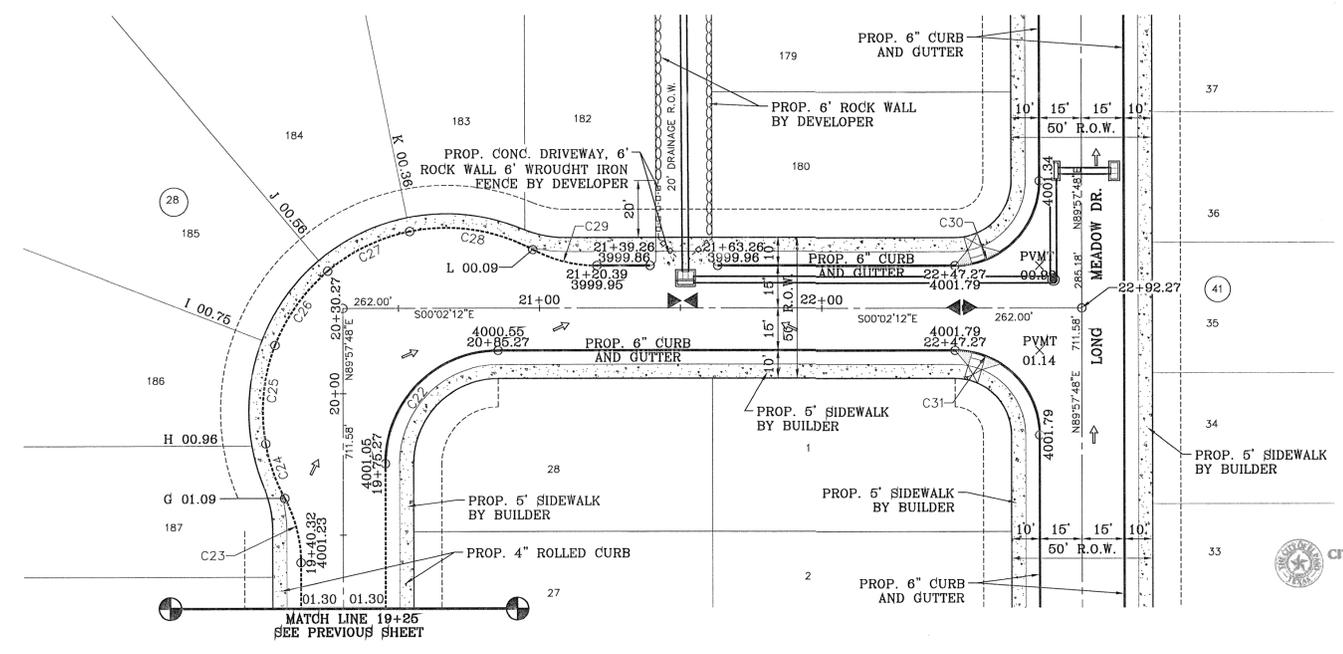
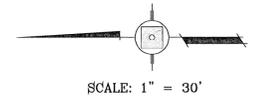


SHEET TITLE  
**STREET PLAN-PROFILE**  
**NORTH SKIES LN.**  
STA: 14+00 TO 19+25

FILE S:\Subdivisions\MESQUITE HILLS 7\DWG\PP-ZAV1-NORTH SKIES PLOTTED Thursday, May 01, 2014 4:56:31 PM

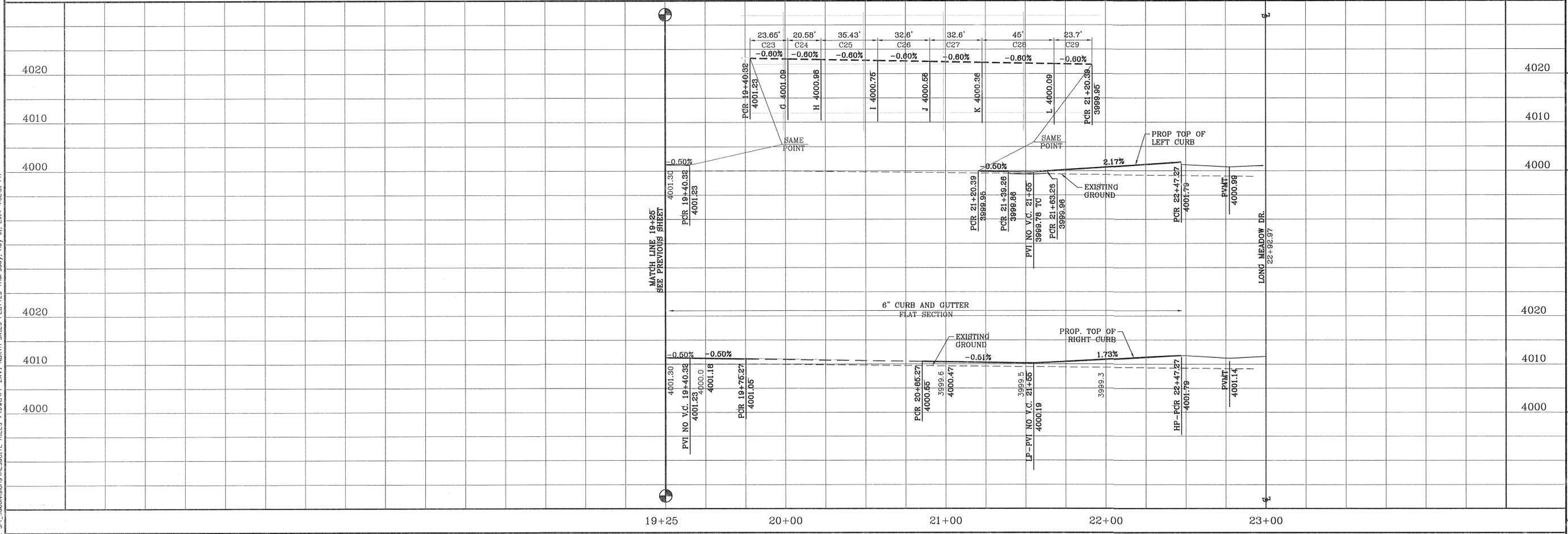
CURVE TABLE						
CURVE	RADIUS	LENGTH	TANGENT	CHORD	BEARING	DELTA
C22	40.00'	62.83'	40.00'	56.57'	N45°02'12"W	90°00'00"
C23	48.00'	23.65'	12.07'	23.41'	N75°51'00"E	28°13'37"
C24	65.00'	20.58'	10.38'	20.50'	S70°48'30"W	18°08'38"
C25	65.00'	35.43'	18.17'	34.99'	N84°30'16"W	31°13'49"
C26	65.00'	32.60'	16.65'	32.26'	N54°31'13"W	28°44'17"

CURVE TABLE						
CURVE	RADIUS	LENGTH	TANGENT	CHORD	BEARING	DELTA
C27	65.00'	32.60'	16.65'	32.26'	N25°46'54"W	28°44'22"
C28	65.00'	45.00'	23.45'	44.11'	N8°25'21"E	39°40'08"
C29	48.00'	23.70'	12.10'	23.46'	S14°06'37"W	28°17'37"
C30	30.00'	47.12'	30.00'	42.43'	S45°02'12"E	90°00'00"
C31	30.00'	47.12'	30.00'	42.43'	N44°57'48"E	90°00'00"



CITY DEVELOPMENT DEPARTMENT  
**REVIEWED**

NOTE:  
 ALL WHEELCHAIR RAMP  
 TO BE BY DEVELOPER



BENCHMARK	CITY MONUMENT AT THE CENTERLINE INTERSECTION OF COPPER CANYON DRIVE AND COPPER MINE LANE. ELEVATION 4007.42
DATE	04/19/13
REVISIONS	
BY	
R.R.	2ND SET OF CITY COMMENTS

**MESQUITE HILLS UNIT SEVEN**  
 BEING PORTION OF TRACTS 5 AND 6, SECTION 16, BLOCK 80, TOWNSHIP 1, TEXAS AND PACIFIC RAILROAD CO. SURVEYS, CITY OF EL PASO, EL PASO COUNTY, TEXAS CONTAINING: 108.78 ACRES

PROJECT NAME  
 S C A L E  
 HORIZ: 1" = 30'  
 VERT: 1" = 10'  
 DATE: DEC. 2012  
 DESIGN BY: YC  
 INITIATED BY: YC  
 CHECKED BY: YC & FC  
 JOB NO.: 512-24



**CONDE INC.**  
 ENGINEERING / PLANNING  
 SURVEYING / GPS  
 6080 SURETY DR. STE 100  
 EL PASO, TEXAS 79905  
 PHONE: (915) 592-0283  
 FAX: (915) 592-0286

SHEET TITLE  
**STREET PLAN-PROFILE**  
**NORTH SKIES LN.**  
 STA: 19+25  
 TO  
 STA: 22+92.97

**WATERSHED-POND 2:1 SLOPE**

$QT = \frac{A \cdot R \cdot C}{12} = AC-FT$

QT = Cubic Feet Per Second  
 A = 100% of Contributing Watershed Area in Acres  
 R = Rainfall in Inches  
 C = Runoff Factor Inches

**POND CALC.**  
 $QT=ARC/12$   
 A=TOTAL RUNOFF IN AC/FT.(100%)  
 R=RAINFALL IN INCHES C=RUNOFF FACTOR  
 C=RUNOFF FACTOR IN INCHES

PROP. MH-7  $\frac{50.15(4).60}{12} = 10.03$  ac-ft  
 AND POND

OFFSITE UNDEVELOPED  $\frac{675(4).20}{12} = 45.0$  ac-ft

---

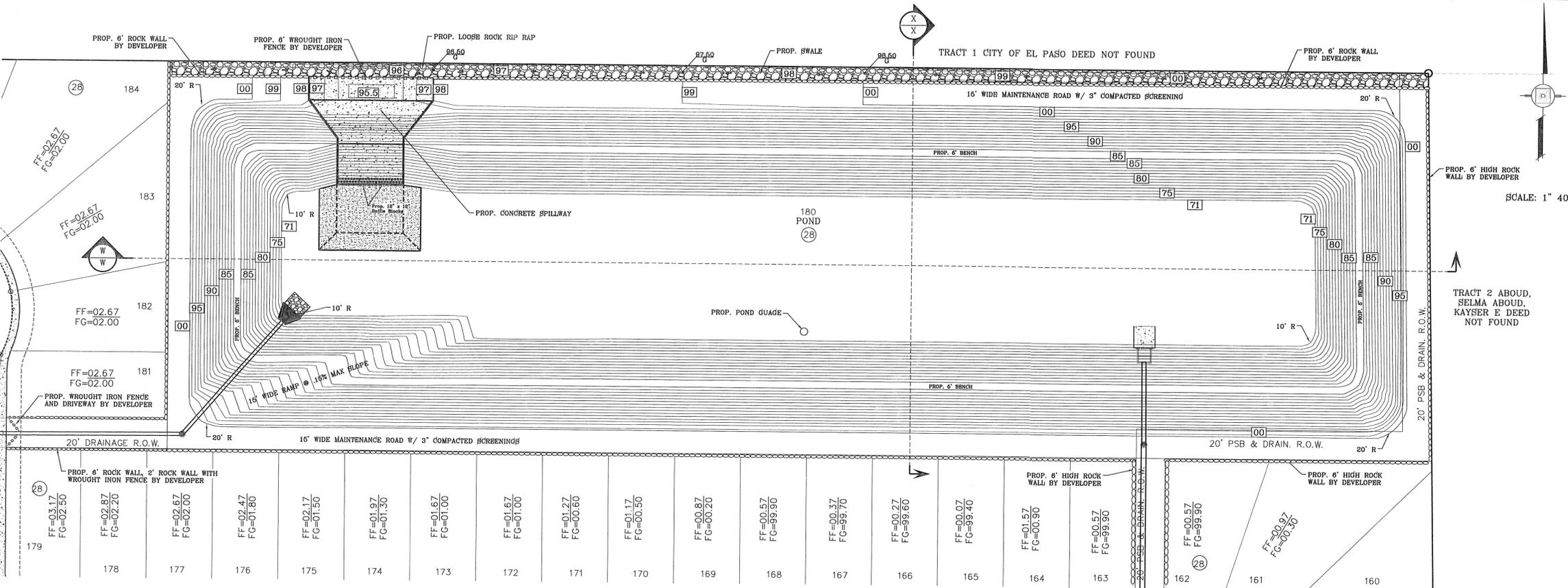
TOTAL = 55.03 ac-ft  
 SILT & DEBRIS 8.76 ac-ft

---

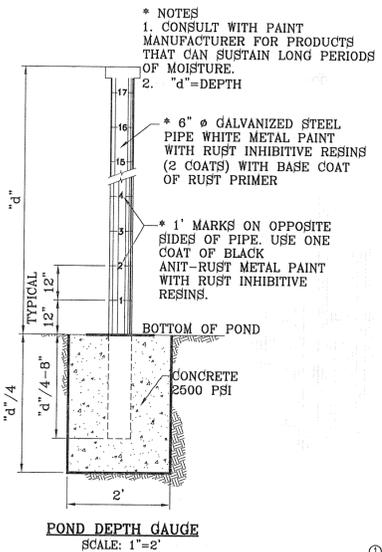
Qreq (TOTAL) = 63.79  
 Qcap (TOTAL) = 68.47

---

100 YEAR HW ELEVATION = 3992.46  
 100 YEAR PONDED DEPTH = 3994.80



ELEVATION FT	AREA SQ-FT	CONIC VOL. AC-FT	VOLUME CAP. AC-FT
3996	172896.43	3.92	68.47
3995	168740.36	3.82	64.55
3994	164416.54	3.73	60.72
3993	160519.74	3.64	56.99
3992	156456.52	3.55	53.35
3991	152423.69	3.46	49.81
3990	148422.36	3.36	46.36
3989	144451.85	3.27	42.99
3988	140512.98	3.18	39.72
3987	136604.52	3.09	36.54
3986	132726.99	3.00	33.45
3985	128924.66	2.91	30.45
3984	116931.54	2.82	27.64
3983	112214.98	2.73	25.02
3982	108539.66	2.64	22.48
3981	104899.75	2.55	20.03
3980	101280.89	2.46	17.67
3979	97693.70	2.37	15.38
3978	94143.00	2.28	13.18
3977	90622.22	2.19	11.06
3976	87141.50	2.10	9.02
3975	83676.99	2.01	7.06
3974	80245.27	1.92	5.18
3973	76854.03	1.83	3.37
3972	73491.22	1.74	1.65
3971	70137.89	1.65	0.00

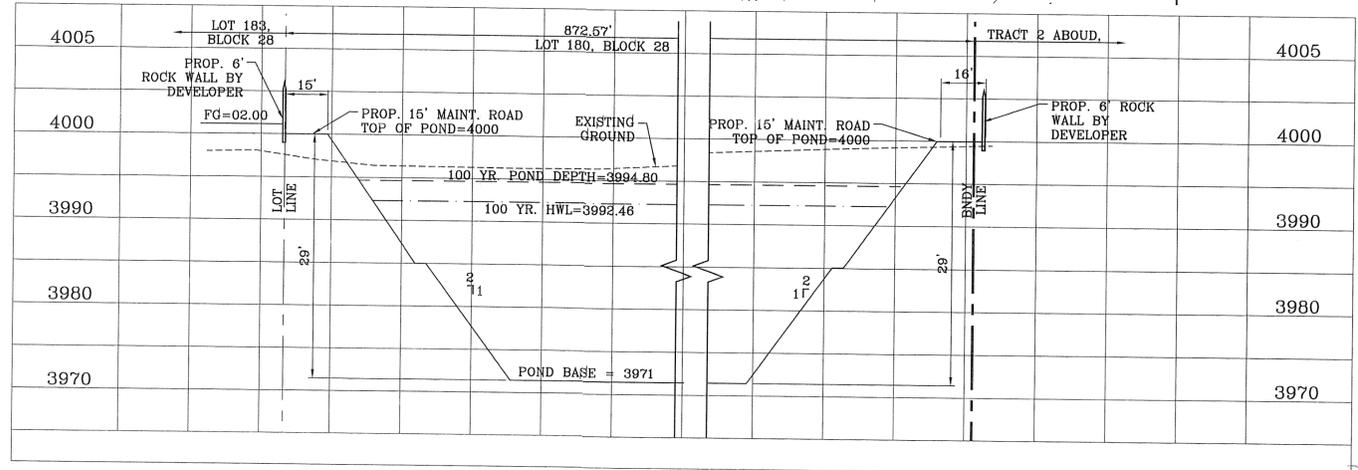


**LEGEND**

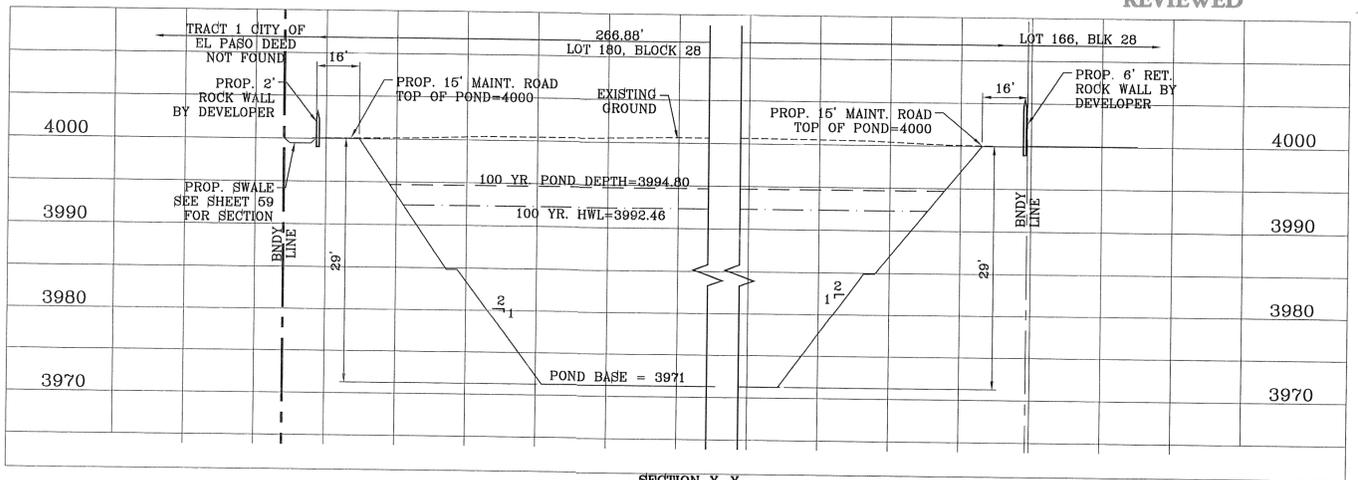
- APPROXIMATE WARNING SIGN LOCATION
- EXISTING / PROPOSED ROCK WALL
- PROPOSED RETAINING WALL
- WROUGHT IRON FENCE

**NOTES:**

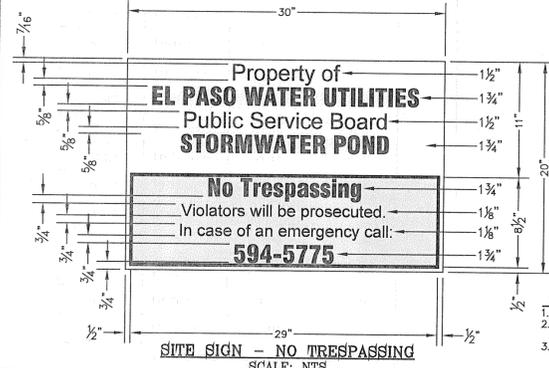
- POND SLOPE TO BE STABILIZED WITH HYDROMULCH SEED FORMULA SEE SHEET 5 FOR NOTE
- THE RESULTS OF THE RETENTION BASIN BORING AND PERCOLATION TESTS PERFORMED AT THE TIME OF EXCAVATION IN ACCORDANCE TO CITY OF EL PASO DESIGN STANDARDS FOR CONSTRUCTION ARE REQUIRED BEFORE ACCEPTANCE OF ANY STORMWATER MANAGEMENT FACILITIES.



SECTION W-W  
 VERTICAL: 1"=10'  
 HORIZONTAL: 1"=30'

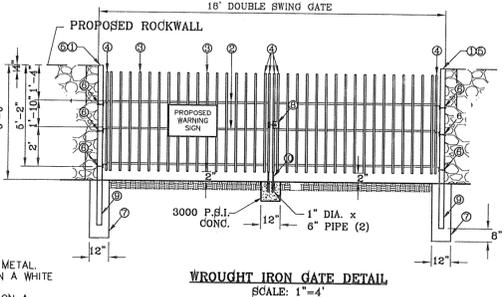


SECTION X-X  
 VERTICAL: 1"=10'  
 HORIZONTAL: 1"=30'



**GENERAL NOTES:**

- SIGN MATERIAL TO BE 16 GAUGE GALVANIZED SHEET METAL
- TOP PART OF SIGN SHALL SHOW BLACK LETTERS ON A WHITE BACKGROUND
- BOTTOM PART OF SIGN SHALL SHOW WHITE LETTERS ON A BLACK BACKGROUND



WROUGHT IRON GATE DETAIL  
 SCALE: 1"=4'

**PROJECT NAME**  
 MESQUITE HILLS UNIT SEVEN

**BEING PORTION OF TRACTS 5 AND 6 SECTION 6, BLOCK 80, TOWNSHIP 1, TEXAS AND PACIFIC RAILROAD CO. SURVEYS, CITY OF EL PASO, EL PASO COUNTY, TEXAS CONTAINING: 108.78 ACRES**

**SCALE**  
 HORIZ: 1" = 30'  
 VERT: 1" = 10'

**DATE:** DEC. 2012  
**DESIGN BY:** YC  
**INITIATED BY:** RR  
**CHECKED BY:** YC & FC  
**JOB NO.:** 512-24

**ENGINEER'S SEAL**  
 YOUNG & RUBICAM  
 64648  
 STATE OF TEXAS

**CONDE INC.**  
 ENGINEERING / PLANNING  
 SURVEYING / GPS  
 6080 SURETY DR. STE. 100  
 EL PASO, TEXAS 79905  
 PHONE: (915) 592-0283  
 FAX: (915) 592-0286

**SHEET TITLE**  
 PROPOSED POND A

**SHT 53 OF 80**

FILE: S:\Subdivisions\MESQUITE HILLS 7\DWG\POND NORTH PLOTTED Thursday, May 01, 2014 4:52:43 PM

WATERSHED-POND-B		2:1 SLOPE	
$QT = \frac{A R C}{12} = AC-FT$			
QT = Cubic Feet Per Second			
A = 100% of Contributing Watershed Area in Acres			
R = Rainfall in Inches			
C = Runoff Factor Inches			
POND CALC.			
QT=ARC/12			
A=TOTAL RUNOFF IN AC/FT.(100%)			
R=RAINFALL IN INCHES C=RUNOFF FACTOR			
C=RUNOFF FACTOR IN INCHES			
PROP. MH-7 $\frac{46.85(4)0.60}{12} = 9.37$ ac-ft			
AND POND B			
EXIST. MH-4 $\frac{21.98(4)0.60}{12} = 4.40$ ac-ft			
TOTAL = 13.77 ac-ft			
SILT & DEBRIS 0.83 ac-ft			
Qreq (TOTAL) = 14.60			
Qcap (TOTAL) = 16.05			
100 YEAR HW ELEVATION = 3992.97			
100 YEAR PONDED DEPTH = 3993.73			

ELEVATION FT	AREA SQ-FT	CONIC VOL. AC-FT	VOLUME CAP. AC-FT
3995	51354.48	1.15	16.05
3994	49058.64	1.10	14.90
3993	46817.02	1.05	13.80
3992	44629.64	1.00	12.75
3991	42496.49	0.95	11.75
3990	40417.57	0.90	10.80
3989	38392.89	0.86	9.89
3988	36422.44	0.81	9.04
3987	34506.22	0.77	8.22
3986	32644.24	0.73	7.45
3985	30836.49	0.69	6.72
3984	29082.97	0.65	6.03
3983	27383.68	0.61	5.39
3982	25738.63	0.57	4.78
3981	24147.81	0.54	4.20
3980	22611.22	0.50	3.67
3979	21128.87	0.47	3.16
3978	19700.75	0.44	2.70
3977	18326.86	0.41	2.26
3976	17007.21	0.38	1.85
3975	15741.79	0.35	1.48
3974	14530.60	0.32	1.13
3973	13373.84	0.29	0.81
3972	12270.92	0.27	0.52
3971	11222.43	0.25	0.25
3970	10228.17	0.00	0.00

**LEGEND**

— APPROXIMATE WARNING SIGN LOCATION

— EXISTING / PROPOSED ROCK WALL

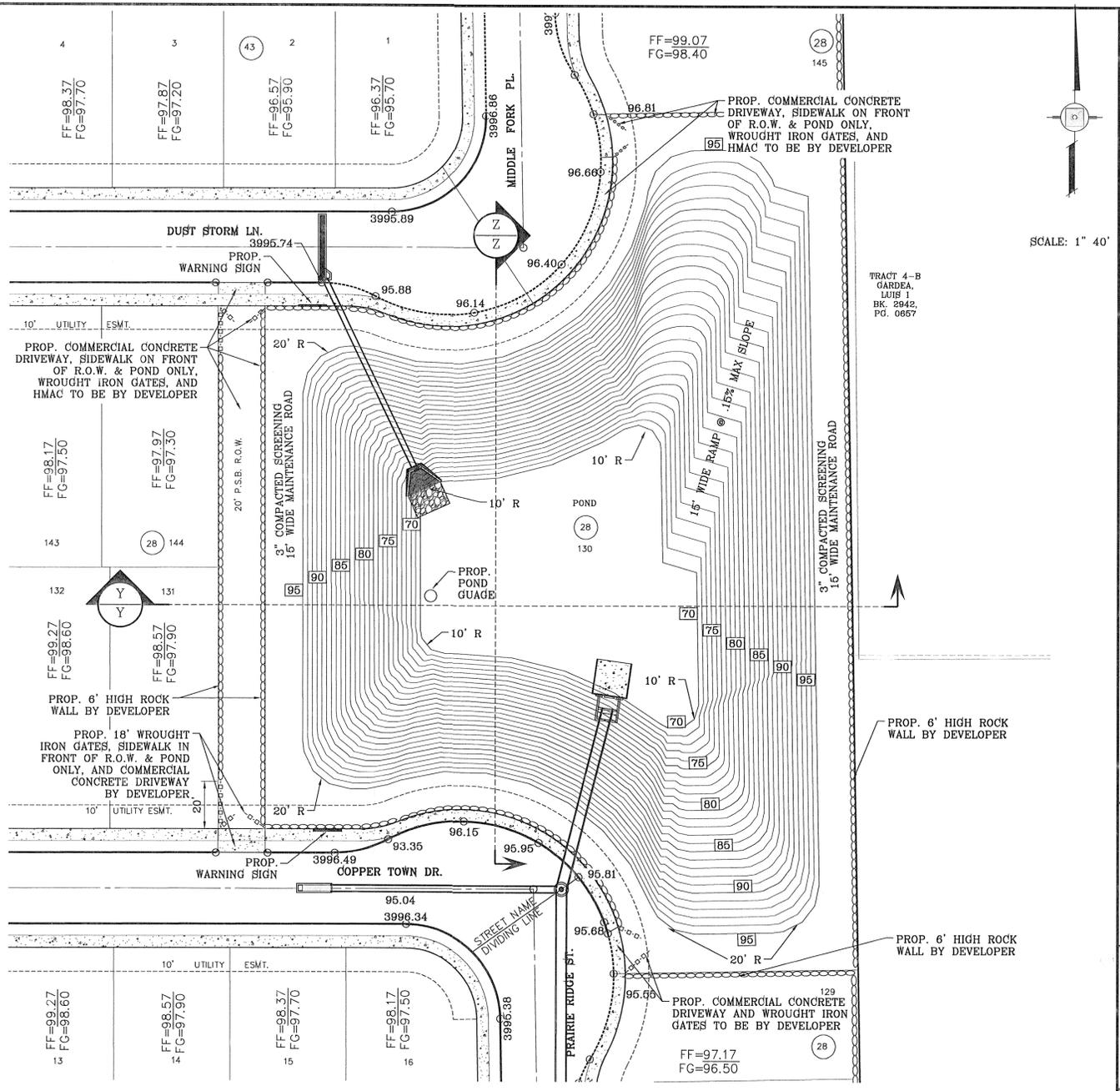
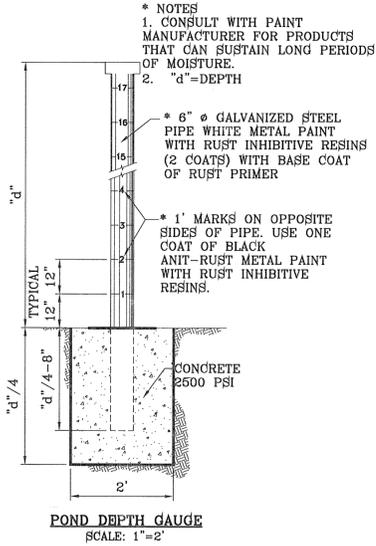
— PROPOSED RETAINING WALL

□-□-□-□-□-□-□- PROPOSED WROUGHT IRON FENCE

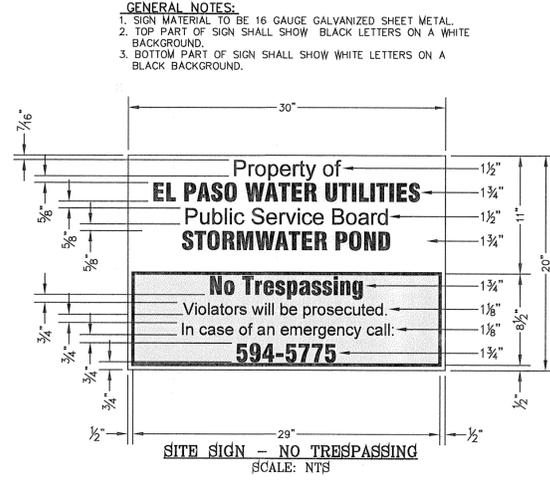
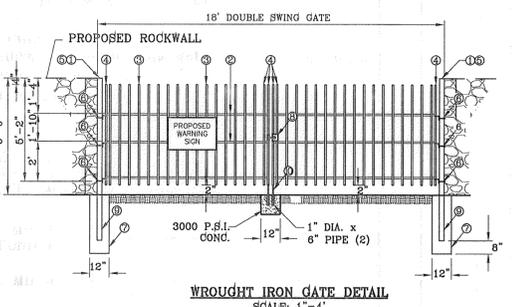
**NOTES:**

1. POND SLOPE TO BE STABILIZED WITH HYDROMULCH SEED FORMULA SEE SHEET 5

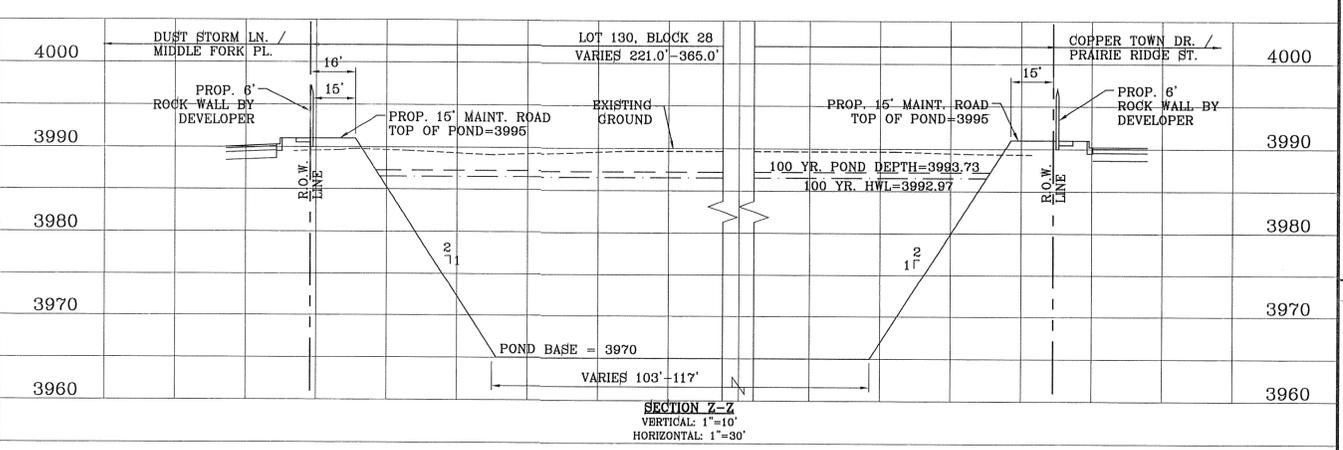
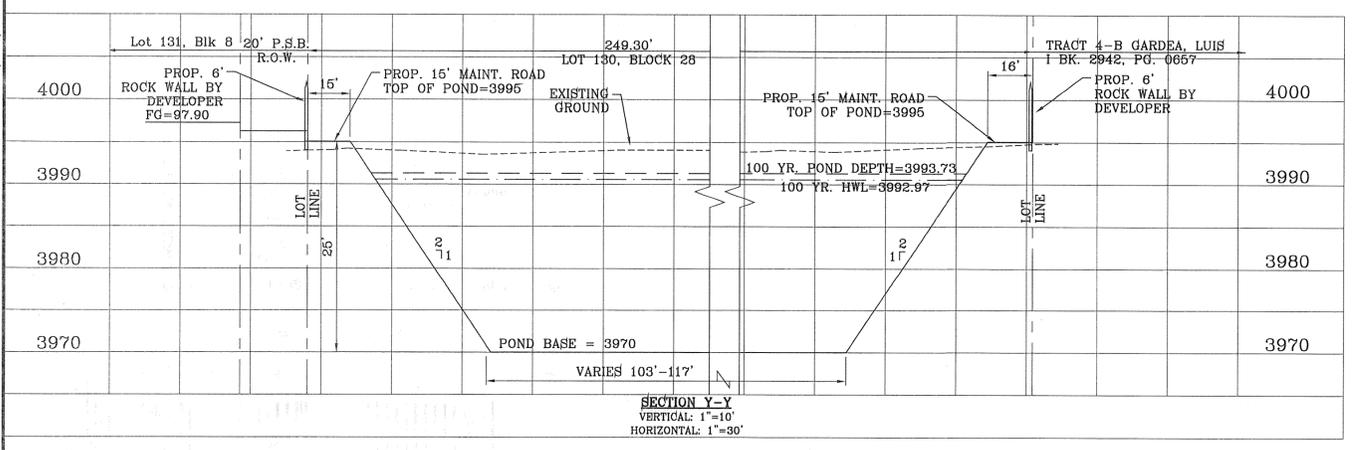
2. THE RESULTS OF THE RETENTION BASIN BORING AND PERCOLATION TESTS PERFORMED AT THE TIME OF EXCAVATION IN ACCORDANCE TO CITY OF EL PASO DESIGN STANDARDS FOR CONSTRUCTION ARE REQUIRED BEFORE ACCEPTANCE OF ANY STORMWATER MANAGEMENT FACILITIES.



- ① 3"x3"x1/8" SQUARE STEEL TUBING
- ② 2"x1"x1/4" GA. RECTANGULAR STEEL TUBING
- ③ 1 1/2"x1/2"x1/8" GA. RECTANGULAR STEEL TUBING
- ④ 2"x1"x1/8" GA. RECTANGULAR STEEL TUBING
- ⑤ FLAT TOP POLYVINYL CAP
- ⑥ BOLT HOOK AND STRAP HINGE
- ⑦ 1"x3" DEEP 3000 PSI CONCRETE POST FOOTING
- ⑧ DOUBLE GATE HEAVY DUTY INDUSTRIAL LATCH W/PAD LOCK
- ⑨ 6"x5"x3/8" SQUARE STEEL SLEEVE W/7"x3"x3/8" STEEL BASE PLATE
- ⑩ CANE BOLT LATCH W/KEEPER 5-8" x16" LONG ( 2 REQUIRED)



FILE S:\Subdivisions\MESQUITE HILLS 730MG.POND EAST PLOTTED Thursday, May 01, 2014 4:52:57 PM



CITY DEVELOPMENT DEPARTMENT  
**REVIEWED**

BENCHMARK

CITY DOCUMENT AT THE CENTERLINE INTERSECTION OF COPPER TOWN DR. AND COPPER MINE DR. ELEVATION 4007.42

DATE	REVISIONS	BY	R.R.
04/19/13			
			2ND SET OF CITY COMMENTS

**MESQUITE HILLS UNIT SEVEN**

BEING PORTION OF TRACTS 5 AND 6, SECTION 16, BLOCK 28, SURVEYED BY THE PASO COUNTY, TEXAS SURVEYS, CITY OF EL PASO, TEXAS, CONTAINING 1.08778 ACRES

SCALE  
HORIZ: 1" = 30'  
VERT: 1" = 10'

DATE: DEC. 2012  
DESIGN BY: YC  
INITIATED BY: RR  
CHECKED BY: YC & FC  
JOB NO.: 512-24

ENGINEER'S SEAL

**CONDE INC.**  
ENGINEERING / PLANNING  
SURVEYING / GFS  
6080 SURETY DR. STE. 100  
EL PASO, TEXAS 79905  
PHONE: (915) 592-0283  
FAX: (915) 592-0286

**PROPOSED POND B**

SHT 54 OF 80

R.C.P. PIPE DATA ( 100 Year Storm Calcs. )

PIPE	SECTION SIZE (in)	LENGTH (ft)	SLOPE (ft/ft)	DISCHARGE (cfs)	CAPACITY (cfs)	AVERAGE VELOCITY (fps)	DOWN STREAM GROUND	DOWN STREAM HGL	DOWN STREAM INVERT	UPSTREAM GROUND	UPSTREAM HGL	UPSTREAM INVERT
1-1	24	20.84	0.048	9.42	49.55	3.00	4000.84	4000.63	3994.50	4000.84	4000.67	3995.50
1-2	30	35.71	0.014	18.84	48.53	3.84	4000.99	3999.76	3994.00	4000.84	3999.83	3994.50
1-3	24	127.63	0.008	18.84	20.02	6.00	3999.28	3998.07	3993.00	4000.99	3998.96	3994.00
1-4	24	133.50	0.23	30.08	33.91	9.57	3996.00	3994.91	3990.00	3999.28	3997.27	3993.00
1-5	24	104.84	0.172	30.08	93.73	9.57	3996.00	3992.46	3972.00	3996.00	3994.31	3990.00

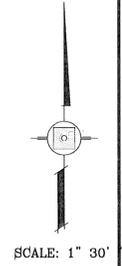
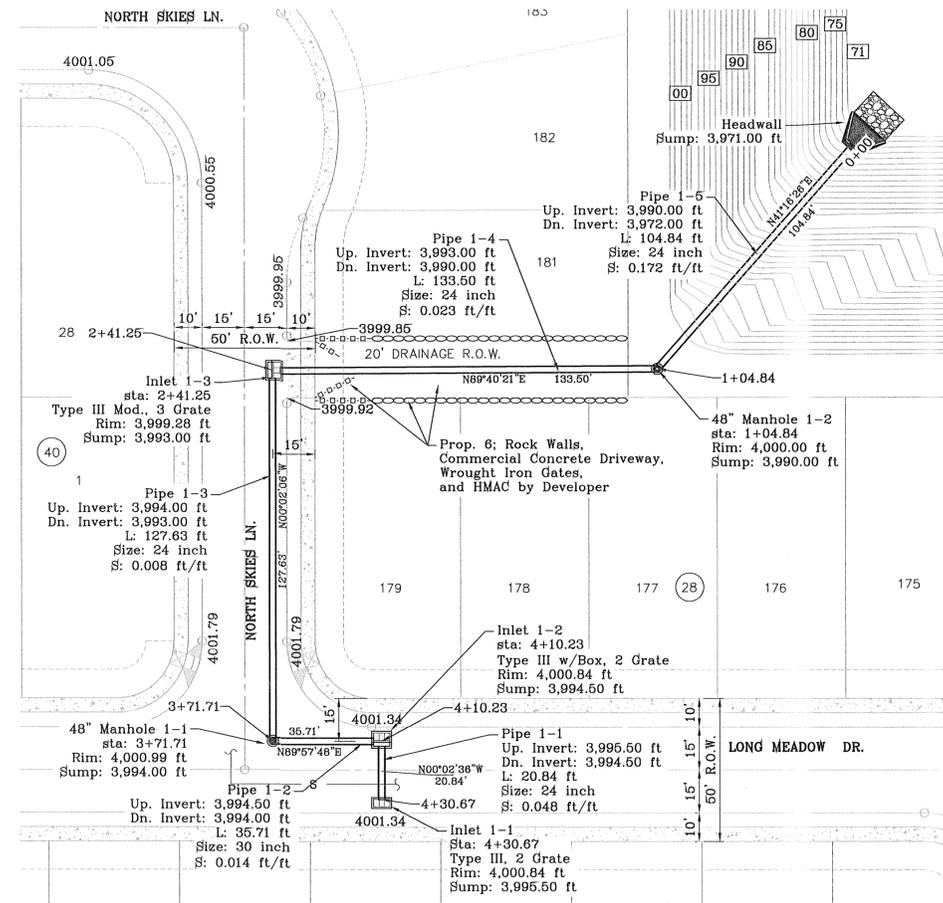
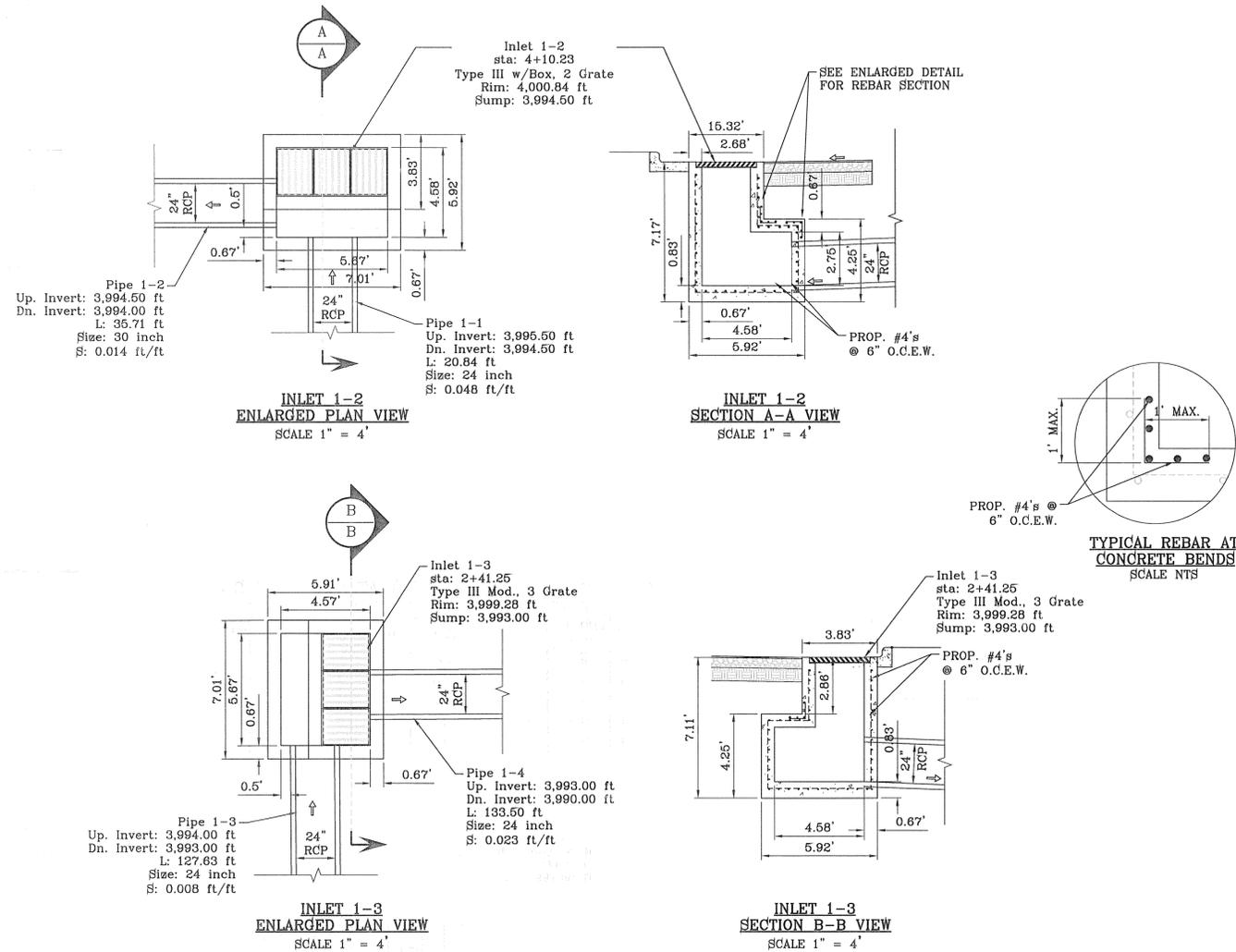
ALL R.C.P. ARE CLASS III UNLESS OTHERWISE NOTED

INLET DATA					
INLET No.	INLET TYPE	No. GRATES	Q <sub>d50</sub> yr. cfs	Q <sub>d100</sub> yr. cfs	Q <sub>c</sub> cfs
1-1	III	2	8.22	9.42	15.44
1-2	III Mod.	2	8.22	9.42	15.44
1-3	III Mod.	3	9.91	11.24	23.16

CLOGGING FACTOR = 2/3

CONSTRUCTION NOTES:

1. ALL CONCRETE FOR STRUCTURES SHALL BE 3000 PSI. UNLESS OTHERWISE NOTED.
2. MINIMUM COVER FOR REINFORCING STEEL SHALL BE 2" UNLESS OTHERWISE NOTED.
3. 95% COMPACTION REQUIRED FOR STRUCTURES AS PER ASTM D1657.
4. REINFORCING SHALL CONFORM TO THE REQUIREMENTS OF ASTM A615 GRADE 60.



Station	Structure / Feature	Up. Invert (ft)	Dn. Invert (ft)	Length (ft)	Size (inch)	Slope (ft/ft)
2+41.25	Inlet 1-3	3999.28	3993.00	127.63	24	0.008
3+71.71	48" Manhole 1-1	4000.99	3994.00	-	-	-
3+71.71	Pipe 1-2	3994.50	3994.00	35.71	30	0.014
4+10.23	Inlet 1-2	4000.84	3994.50	20.84	24	0.048
4+30.67	Inlet 1-1	4000.84	3995.50	-	-	-
4+30.67	Pipe 1-1	3995.50	3994.50	104.84	24	0.172

BENCHMARK	BY	R.R.
CITY MONUMENT AT THE CENTERLINE INTERSECTION OF COPPER CANYON DRIVE AND COPPER MINE LANE	DATE	COMMENTS
ELEVATION 4007.42	04/19/13	2ND SET OF CITY COMMENTS
REVISIONS	05/15/13	CITY REDLINES AS PER 05/15/13

**MESQUITE HILLS UNIT SEVEN**  
BEING PORTION OF TRACTS 5 AND 6, SECTION 16, BLOCK 10, SURVEYED AND PLATTED BY JAMES W. HARRIS, CIVIL ENGINEER, COUNTY, TEXAS SURVEYS, CITY OF EL PASO, TEXAS, CONTAINING: 108.78 ACRES

PROJECT NAME  
SCALE  
HORIZ: 1" = 30'  
VERT: 1" = 10'  
DATE: DEC. 2012  
DESIGN BY: YC  
INITIATED BY: RR  
CHECKED BY: YC & FC  
JOB NO.: 512-24

CITY DEVELOPMENT DEPARTMENT  
**REVIEWED**

ENGINEER'S SEAL  
**CONDE INC.**  
ENGINEERING / PLANNING  
SURVEYING / GPS  
6060 SURETY DR. STE 100  
EL PASO, TEXAS 79905  
PHONE: (915) 592-0283  
FAX: (915) 592-0286

SHEET TITLE  
**STRUCTURE #1**  
SHT 55 OF 80

R.C.P. PIPE DATA ( 100 Year Storm Calcs. )

PIPE	SECTION SIZE (in)	LENGTH (ft)	SLOPE (ft/ft)	DISCHARGE (cfs)	CAPACITY (cfs)	AVERAGE VELOCITY (fps)	DOWN STREAM GROUND	DOWN STREAM HGL	DOWN STREAM INVERT	UPSTREAM GROUND	UPSTREAM HGL	UPSTREAM INVERT
2-1	36	138.75	0.014	47.08	80.07	6.66	3996.00	3994.25	3989.00	3997.00	3994.94	3991.00
2-2	30	90.50	0.188	47.08	177.76	9.59	3996.00	3992.46	3972.00	3996.00	3993.65	3989.00

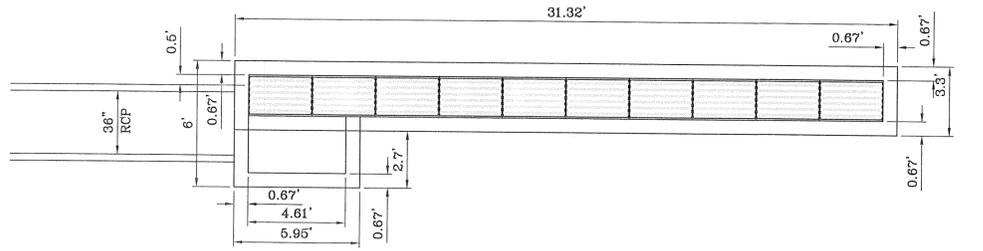
ALL R.C.P. ARE CLASS III UNLESS OTHERWISE NOTED

INLET DATA					
INLET No.	INLET TYPE	No. GRATES	Qd <sub>60</sub> yr. cfs	Qd <sub>100</sub> yr. cfs	Qc cfs
2-1	II MOD.	10	39.41	45.11	77.20

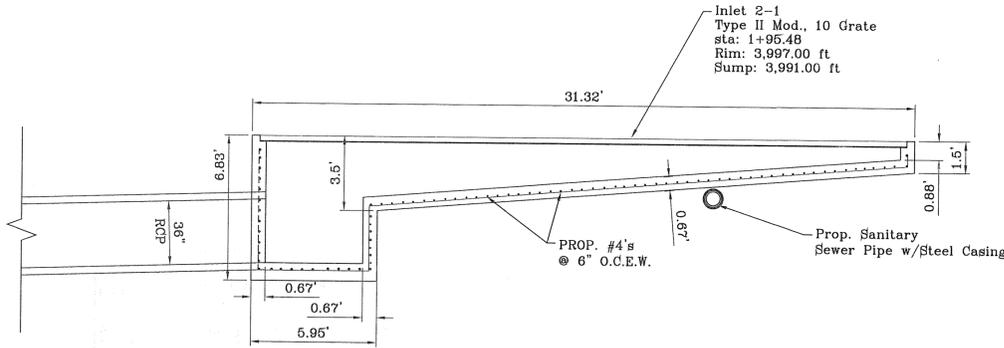
CLOGGING FACTOR = 2/3

CONSTRUCTION NOTES:

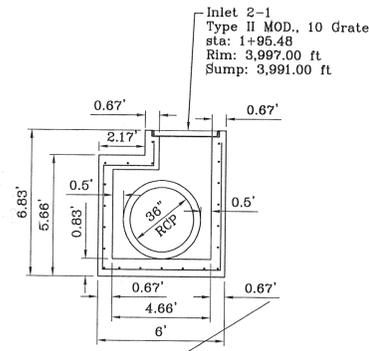
1. ALL CONCRETE FOR STRUCTURES SHALL BE 3000 PSI. UNLESS OTHERWISE NOTED.
2. MINIMUM COVER FOR REINFORCING STEEL SHALL BE 2" UNLESS OTHERWISE NOTED.
3. 95% COMPACTION REQUIRED FOR STRUCTURES AS PER ASTM D1557.
4. REINFORCING SHALL CONFORM TO THE REQUIREMENTS OF ASTM A615 GRADE 60.



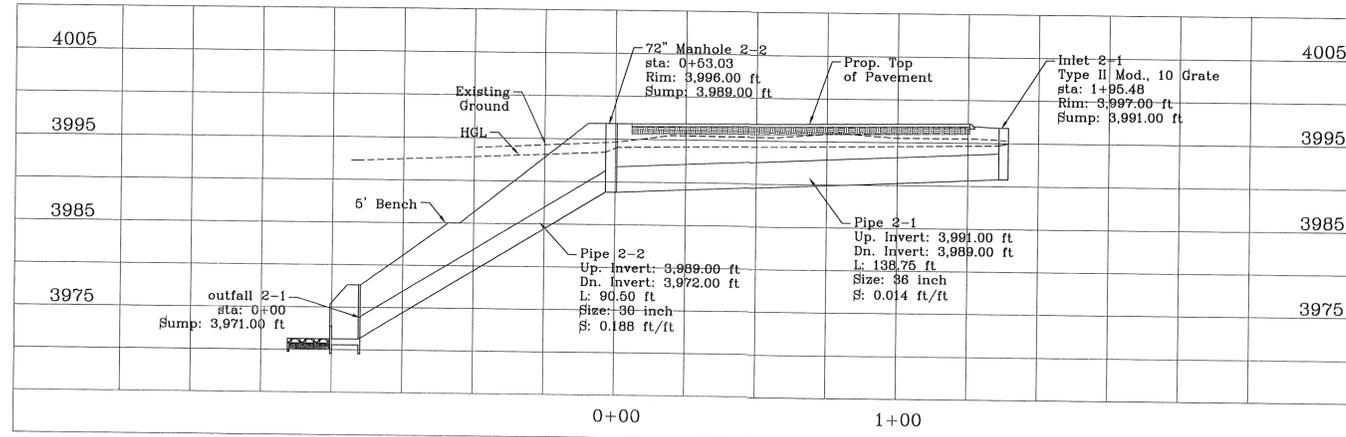
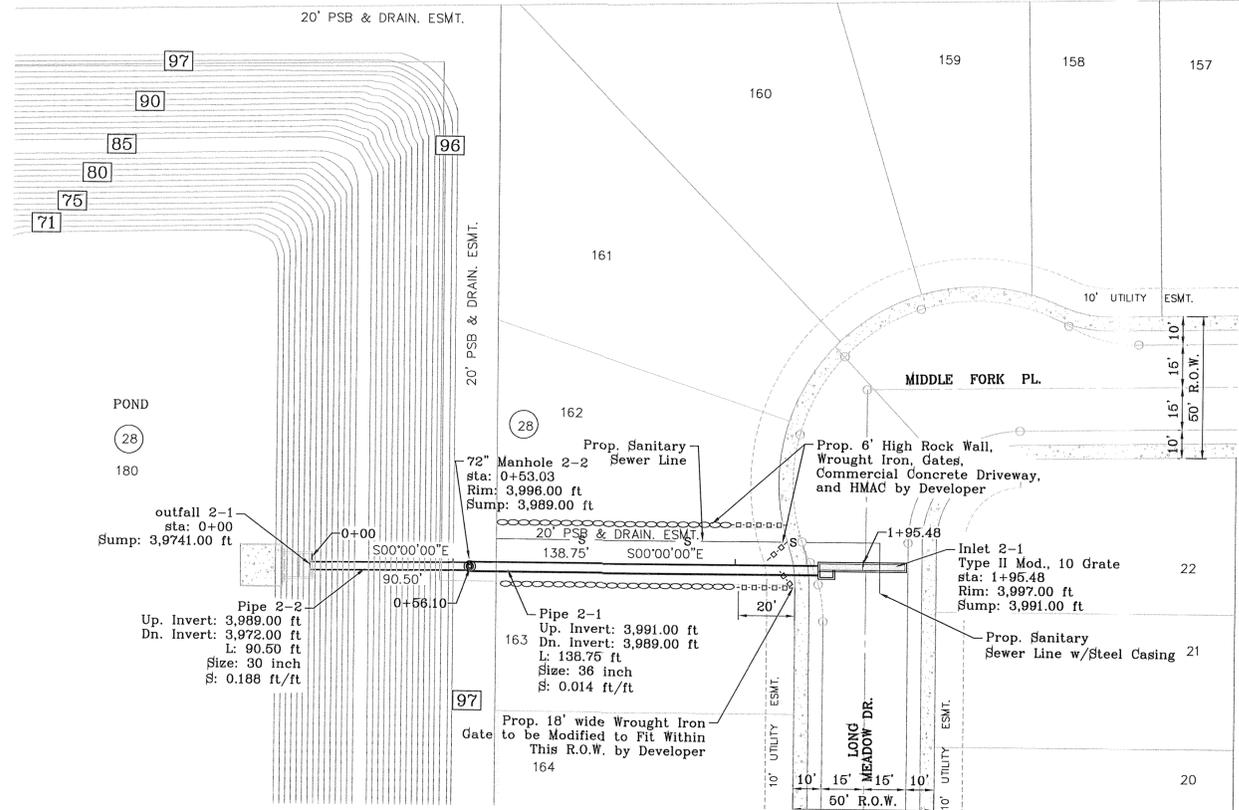
INLET 2-1 ENLARGED PLAN VIEW SCALE 1" = 4'



INLET 2-1 SECTION A-A VIEW SCALE 1" = 4'



INLET 2-1 SECTION B-B VIEW SCALE 1" = 4'



CITY DEVELOPMENT DEPARTMENT REVIEWED

BENCHMARK

CITY MONUMENT AT THE CENTERLINE INTERSECTION OF COPPER CANYON DRIVE AND COPPER LAKE DRIVE  
ELEVATION 4007.42

DATE	REVISIONS	BY	R.R.
04/19/13	2ND SET OF CITY COMMENTS	YC	R.R.
05/15/13	CITY REDLINES AS PER 05/15/13 COMMENTS	YC	R.R.

PROJECT NAME: MESQUITE HILLS UNIT SEVEN  
 BEING PORTION OF TRACTS 5 AND 6, SECTION 16, BLOCK 80, TOWNSHIP 1, TEXAS AND PACIFIC RAILROAD CO. SURVEYS, CITY OF EL PASO, EL PASO COUNTY, TEXAS  
 CONTAINING: 108.76 ACRES

SCALE: 1" = 30'  
 HORIZ: 1" = 30'  
 VERT: 1" = 10'  
 DATE: DEC. 2012  
 DESIGN BY: YC  
 INITIATED BY: YC  
 CHECKED BY: YC & FC  
 JOB NO.: 512-24



CONDE INC.  
 ENGINEERING / PLANNING SURVEYING / GPS  
 6080 SURETY DR. SITE 100  
 EL PASO, TEXAS 79905  
 PHONE: (915) 592-0283  
 FAX: (915) 592-0286



SHEET TITLE

STRUCTURE #2

FILE S:\Subdivisions\MESQUITE\_HILLS\_7\DWG\STRUCTURE\_2\_PLOTTED.Thursday, May 01, 2014, 4:53:31 PM

R.C.P. PIPE DATA ( 100 YEAR STORM CALCS. )

PIPE	SECTION SIZE (in)	LENGTH (ft)	SLOPE (ft/ft)	DISCHARGE (cfs)	CAPACITY (cfs)	AVERAGE VELOCITY (fps)	DOWN STREAM GROUND	DOWN STREAM HGL	DOWN STREAM INVERT	UPSTREAM GROUND	UPSTREAM HGL	UPSTREAM INVERT
3-1	36	90.00	0.178	15.36	281.21	2.17	3993.00	3992.97	3971.00	3995.24	3993.02	3987.00

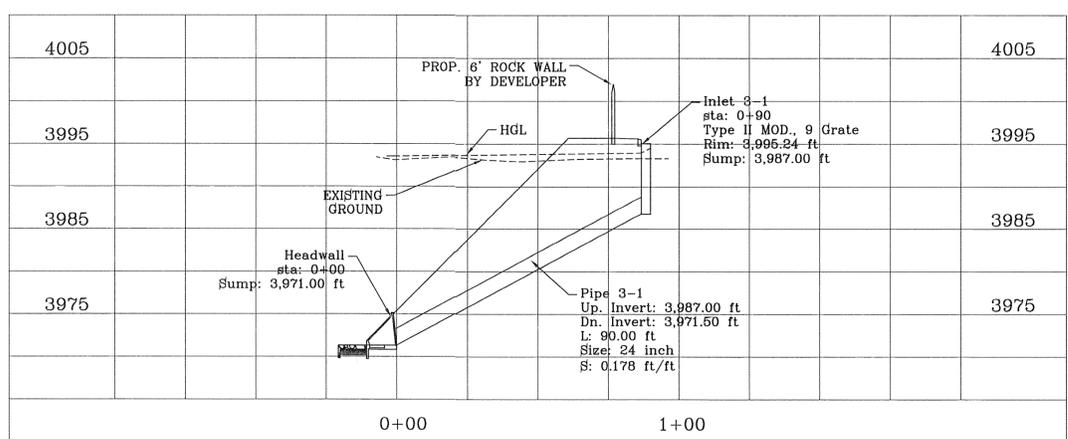
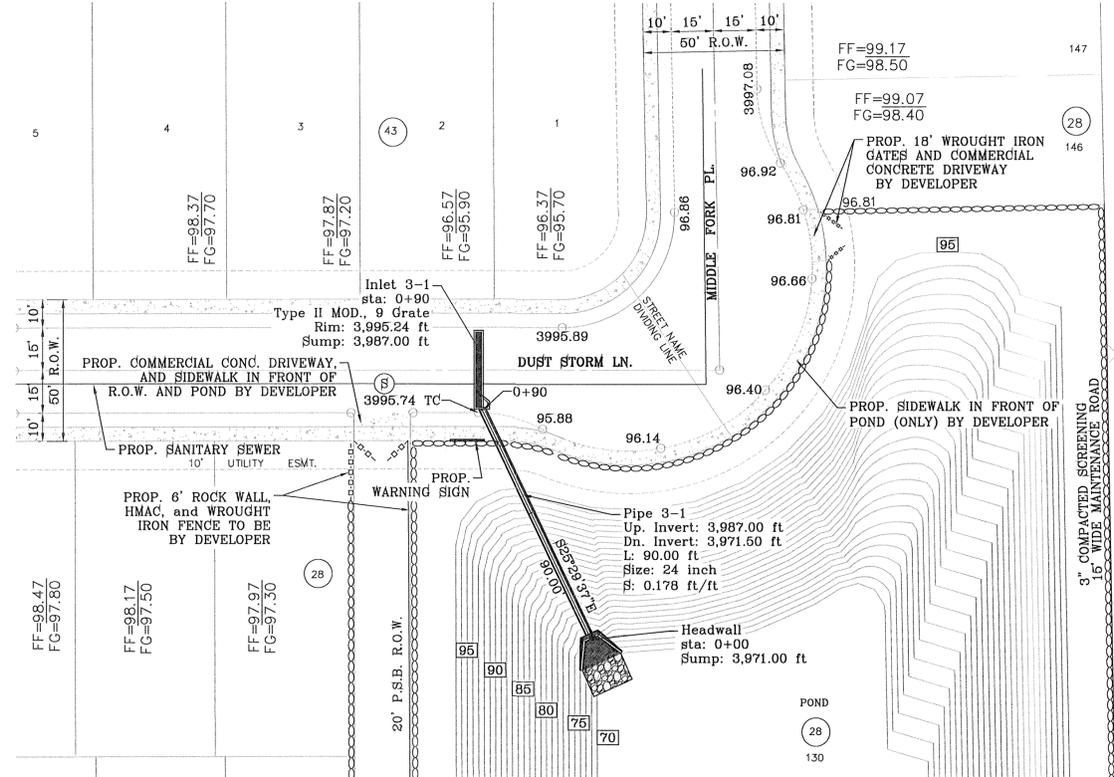
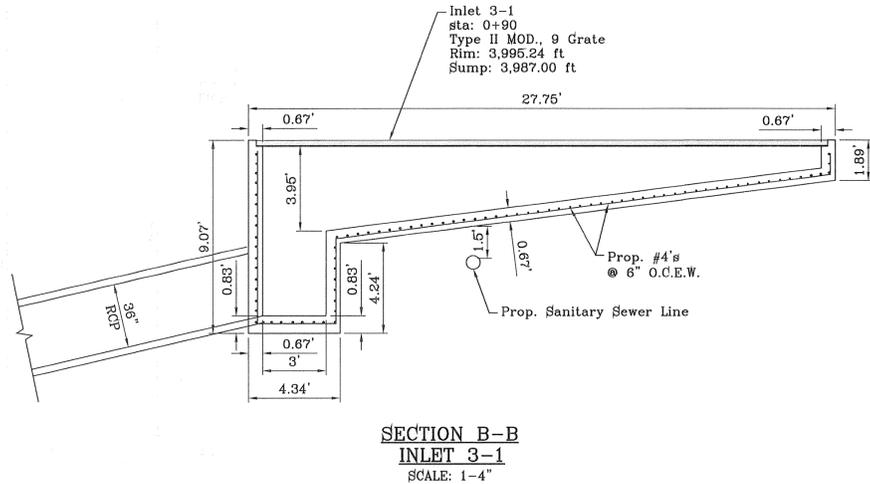
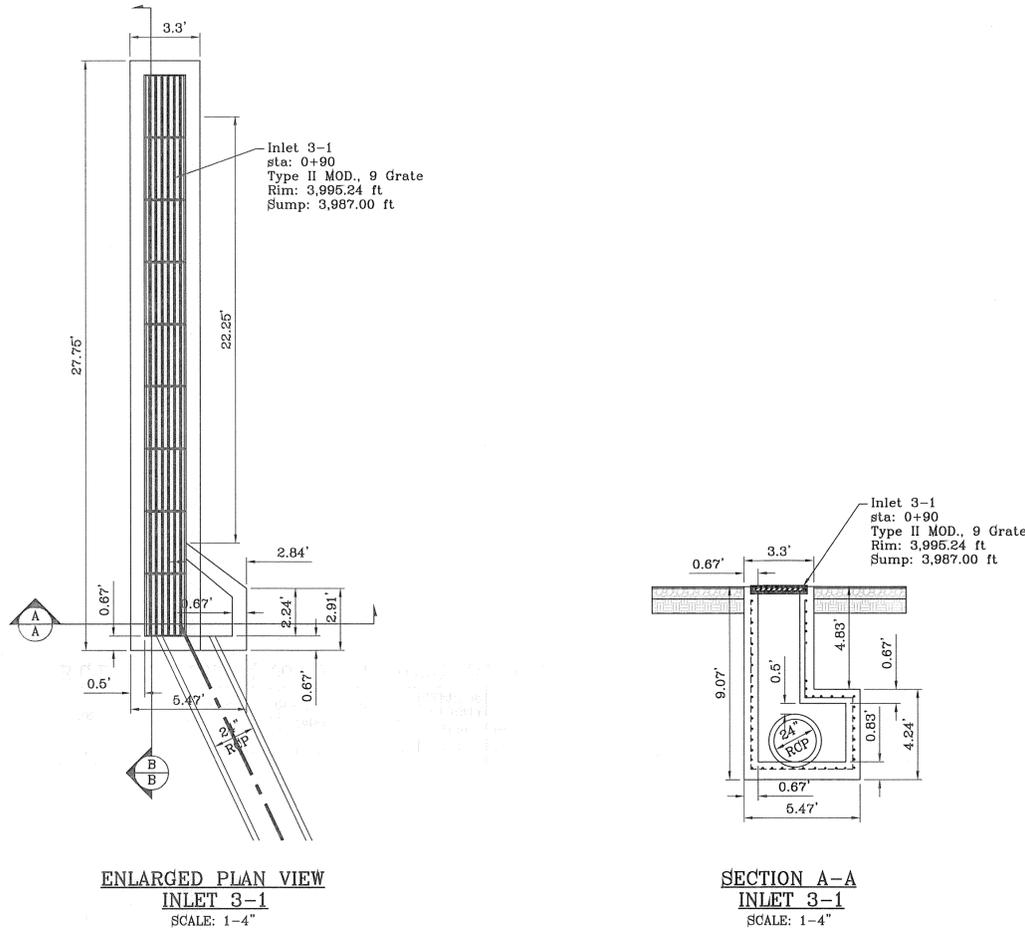
INLET DATA					
INLET No.	INLET TYPE	No. GRATES	Q <sub>d50</sub> yr. cfs	Q <sub>d100</sub> yr. cfs	Q <sub>c</sub> cfs
3-1	II-MOD.	9	13.42	15.36	69.48

CLOGGING FACTOR = 2/3

ALL R.C.P. ARE CLASS III UNLESS OTHERWISE NOTED

CONSTRUCTION NOTES:

1. ALL CONCRETE FOR STRUCTURES SHALL BE 3000 PSI. UNLESS OTHERWISE NOTED.
2. MINIMUM COVER FOR REINFORCING STEEL SHALL BE 2" UNLESS OTHERWISE NOTED.
3. 95% COMPACTION REQUIRED FOR STRUCTURES AS PER ASTM D1657.
4. REINFORCING SHALL CONFORM TO THE REQUIREMENTS OF ASTM A615 GRADE 60.



BENCHMARK	
CITY MONUMENT AT THE CENTERLINE INTERSECTION OF COPPER CANYON DRIVE AND COPPER MOUNTAIN DRIVE	ELEVATION 4007.42
REVISIONS	
DATE	BY
04/19/13	2ND SET OF CITY COMMENTS
05/15/13	CITY REDLINES AS PER 05/15/13 COMMENTS

**PROJECT NAME**  
**MESQUITE HILLS UNIT SEVEN**  
 BEING PORTION OF TRACTS 5 AND 6, SECTION 16, BLOCK 80, TOWNSHIP 1, TEXAS AND PACIFIC RAILROAD CO. SURVEYS, CITY OF EL PASO, EL PASO COUNTY, TEXAS CONTAINING: 106.70 ACRES

**SCALE**  
 HORIZ: 1" = 30'  
 VERT: 1" = 10'  
 DATE: DEC. 2012  
 DESIGN BY: YC  
 INITIATED BY: RR  
 CHECKED BY: YC & FC  
 JOB NO.: 512-24



**CONDE INC.**  
 ENGINEERING / PLANNING  
 SURVEYING / GPS  
 6080 SURETY DR. STE 100  
 EL PASO, TEXAS 79905  
 PHONE: (915) 592-0283  
 FAX: (915) 592-0286



**SHEET TITLE**  
**STRUCTURE #3**  
**SHT 57 OF 80**

FILE: S:\Subdivisions\MESQUITE HILLS 7\DWG\STRUCTURES-FOND P-2 PLOTTED Thu 5/6/13 4:53:47 PM

CITY DEVELOPMENT DEPARTMENT  
**REVIEWED**

R.C.P. PIPE DATA ( 100 Year Calcs. )

PIPE	SECTION SIZE (in.)	LENGTH (ft)	SLOPE (ft/ft)	DISCHARGE (cfs)	CAPACITY (cfs)	AVERAGE VELOCITY (fps)	DOWN STREAM GROUND	DOWN STREAM HGL	DOWN STREAM INVERT	UPSTREAM GROUND	UPSTREAM HGL	UPSTREAM INVERT
4-1	24	484.00	0.009	21.15	21.81	6.73	3994.66	3994.66	3988.00	3997.12	3997.12	3992.50
4-2	48	95.66	0.037	71.02	274.75	5.65	3995.00	3994.32	3984.50	3994.66	3994.66	3988.00
4-3	30	98.15	0.036	38.02	77.45	7.75	3995.00	3994.32	3984.50	3995.84	3995.17	3988.00
4-4	48	78.68	0.172	109.04	594.97	8.68	3995.00	3992.97	3971.00	3995.00	3993.42	3984.50

ALL R.C.P. ARE CLASS III UNLESS OTHERWISE NOTED

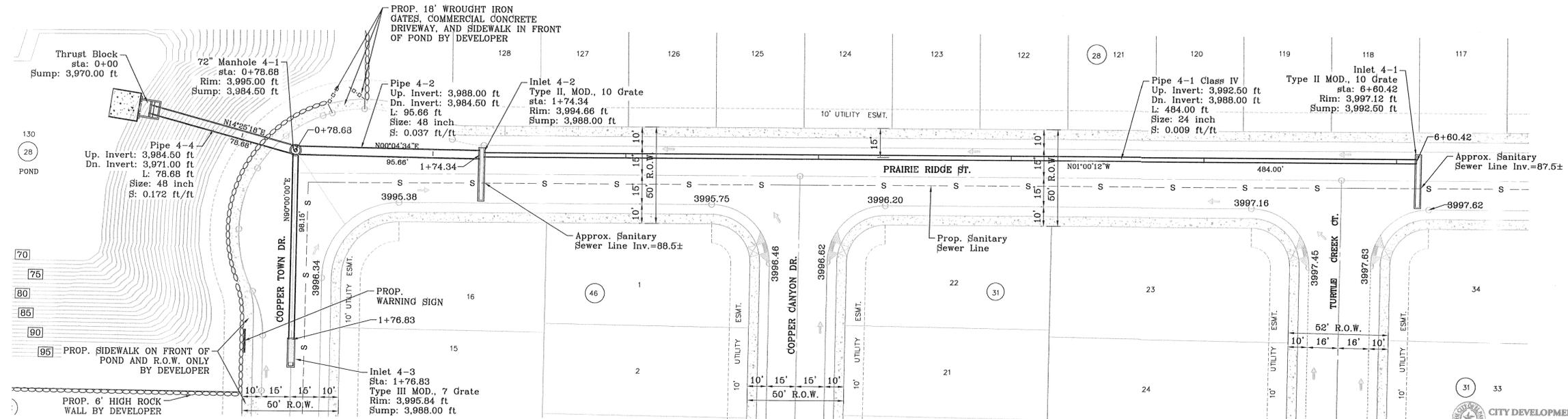
INLET DATA						
INLET No.	INLET TYPE	No. GRATES	Q <sub>d50</sub> yr. cfs	Q <sub>d100</sub> yr. cfs	Qc cfs	Q Bypass
4-1	II-MOD.	10	43.42	45.95	77.20	24.80
4-2	II-MOD.	10	45.41	49.87	77.20	-
4-3	III-MOD.	7	32.10	38.02	64.04	-

CLOGGING FACTOR = 2/3

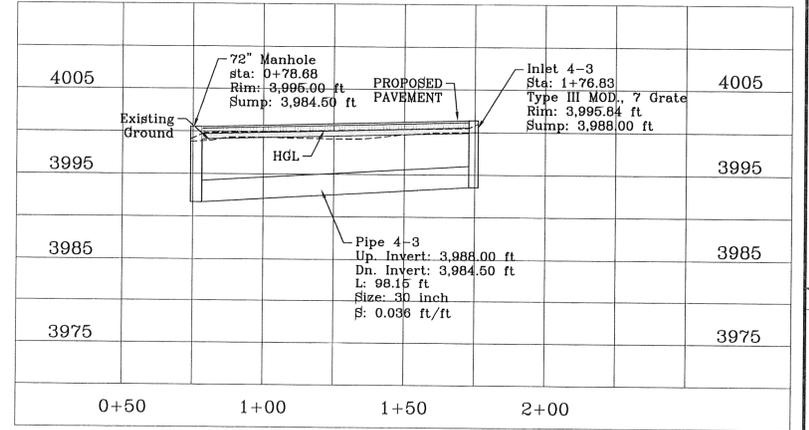
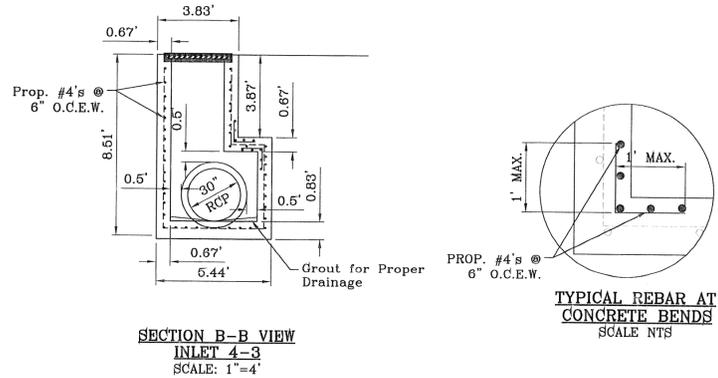
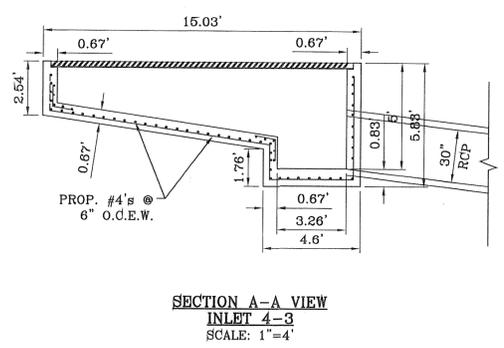
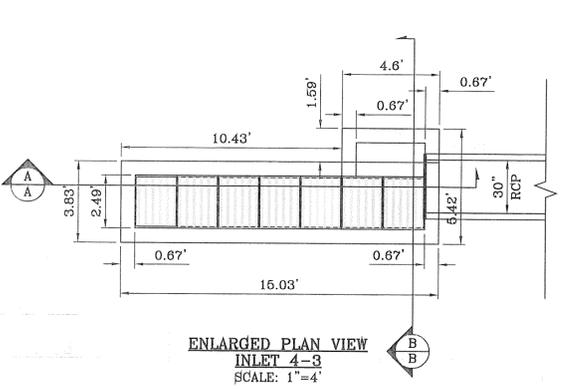
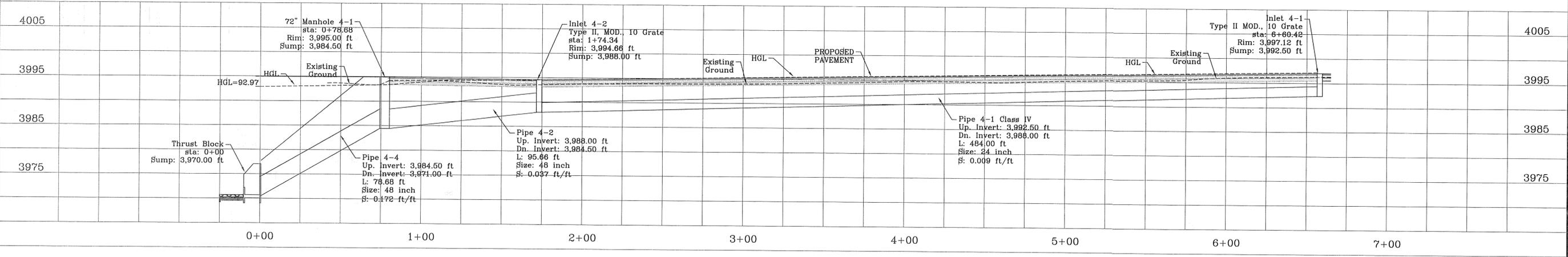
CONSTRUCTION NOTES:

- ALL CONCRETE FOR STRUCTURES SHALL BE 3000 PSI. UNLESS OTHERWISE NOTED.
- MINIMUM COVER FOR REINFORCING STEEL SHALL BE 2" UNLESS OTHERWISE NOTED.
- 95% COMPACTION REQUIRED FOR STRUCTURES AS PER ASTM D1657.
- REINFORCING SHALL CONFORM TO THE REQUIREMENTS OF ASTM A615 GRADE 60.

SCALE: 1" = 30'



REVIEWED



FILE S:\Subdivisions\MESQUITE HILLS 7-DWG\STRUCTURES-POND B PLOTTED Thursday, May 01, 2008 4:54:04 PM

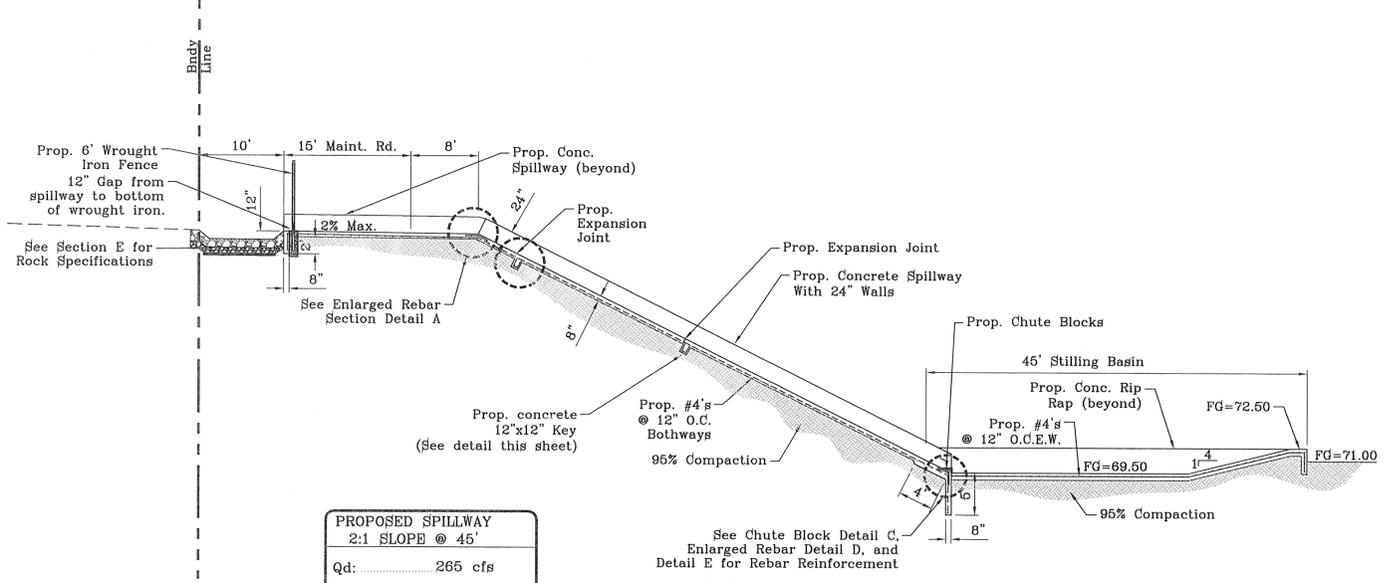
**CONDE INC.**  
ENGINEERING / PLANNING SURVEYING / GPS  
6080 SURETY DR. STE 100  
EL PASO, TEXAS 79905  
PHONE: (915) 592-0263  
FAX: (915) 592-0286

**MESQUITE HILLS UNIT SEVEN**  
BEING PORTION OF TRACTS 5 AND 6, SECTION 16, BLOCK 80, TOWNSHIP 1, TEXAS AND PACIFIC RAILROAD CO. SURVEYS, CITY OF EL PASO, EL PASO COUNTY, TEXAS. CONTAINING: 108.78 ACRES

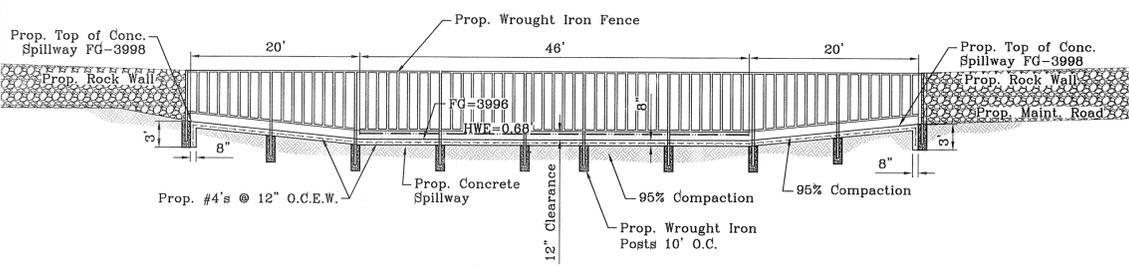
**STRUCTURE #4**

SHT 58 OF 80

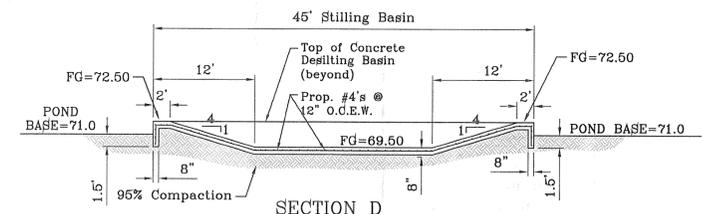
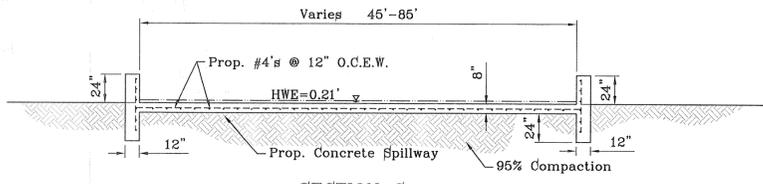
FILE S:\Subdivisions\MESQUITE HILLS 7NDMO\STRUCT SPILLWAY PLOTTED Thursday, May 01, 2014 4:54:28 PM



**PROPOSED SPILLWAY**  
2:1 SLOPE @ 45'  
Qd: 265 cfs  
Velocity: 8.66 fps  
Depth: 0.68 ft  
Slope: 0.01 ft/ft  
Width: 46 ft.

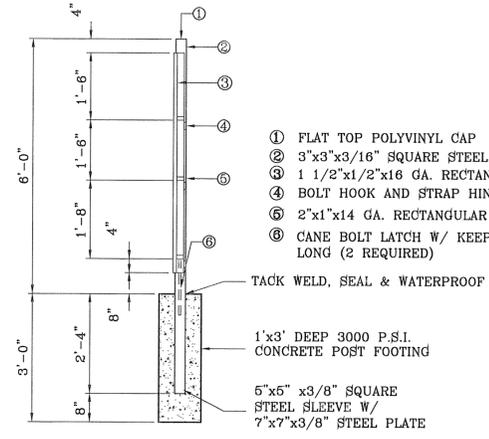


**PROPOSED SPILLWAY**  
2:1 SLOPE @ 45'  
Qd: 265 cfs  
Qc: 3533.16 cfs  
Velocity: 28.24 fps  
Depth: 0.21 ft.  
Slope: 0.50 ft/ft  
Width: 45 ft.

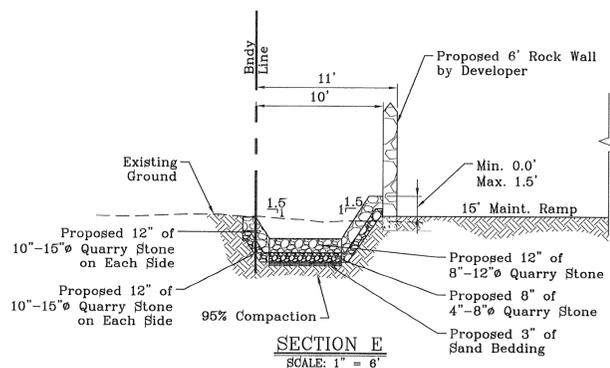


**NOTES:**  
MAX. EXPANSION JOINT SPACING @ 100 FEET O.C. ALONG C.L. OF CHANNEL.

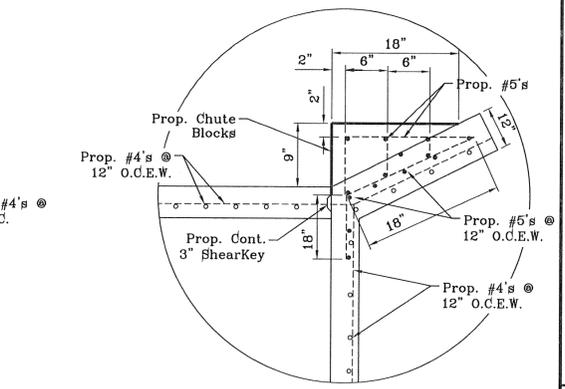
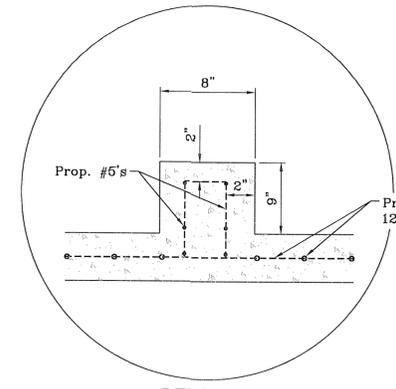
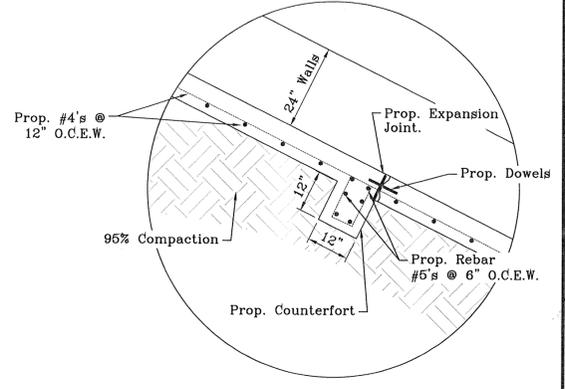
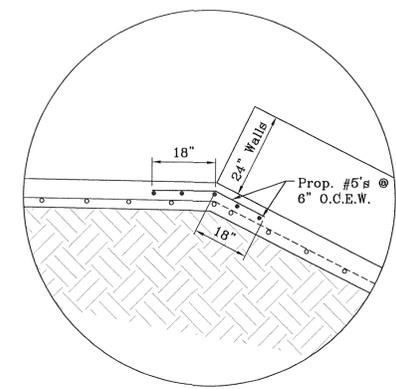
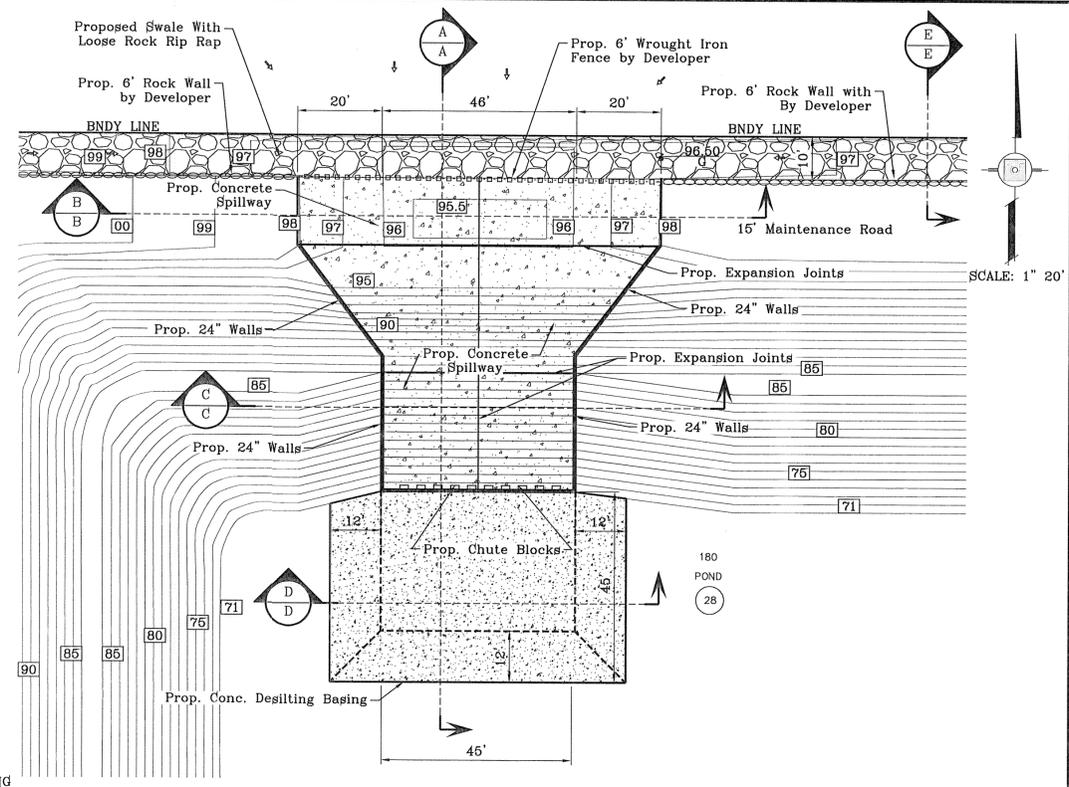
**EXPANSION JOINT**  
SCALE: NTS



- ① FLAT TOP POLYVINYL CAP
- ② 3"x3"x3/16" SQUARE STEEL TUBING
- ③ 1 1/2"x1/2"x16 GA. RECTANGULAR STEEL TUBING
- ④ BOLT HOOK AND STRAP HINGE
- ⑤ 2"x1"x14 GA. RECTANGULAR STEEL TUBING
- ⑥ CANE BOLT LATCH W/ KEEPER 5-8"x18" LONG (2 REQUIRED)



**DETAIL C**  
CHUTE BLOCK/STILLING BASIN  
SCALE: NTS



- CONSTRUCTION NOTES:**
- ALL CONCRETE FOR STRUCTURES SHALL BE 4000 PSI.
  - MINIMUM COVER FOR REINFORCING STEEL SHALL BE 2" UNLESS OTHERWISE NOTED.
  - 95% COMPACTION REQUIRED FOR STRUCTURES AS PER ASTM D1557.
  - REINFORCING SHALL CONFORM TO THE REQUIREMENTS OF ASTM A615 GRADE 60.

**CITY DEVELOPMENT DEPARTMENT**  
REVIEWED

**MESQUITE HILLS UNIT SEVEN**

**PROJECT NAME**  
MESQUITE HILLS UNIT SEVEN  
BEING PORTION OF TRACTS 5 AND 6, SECTION 16, BLOCK 80, PIONEER 1, TEXAS AND PACIFIC RAILROAD CO. SURVEYS, CITY OF MESQUITE, TARRANT COUNTY, TEXAS CONTAINING: 106.76 ACRES

**SCALE**  
HORIZ: 1" = 30'  
VERT: 1" = 10'

**DATE:** DEC. 2012  
**DESIGN BY:** YC  
**INITIATED BY:** RR  
**CHECKED BY:** YC & FC  
**JOB NO.:** 612-24

**ENGINEER'S SEAL**  
CONDE INC. ENGINEERING / PLANNING SURVEYING / GPS  
6080 SURETY DR. STE 100  
EL PASO, TEXAS 79905  
PHONE: (915) 592-0283  
FAX: (915) 592-0286

**REVISIONS**

NO.	DATE	DESCRIPTION
1	04/19/13	2ND SET OF CITY COMMENTS
2	05/15/13	CITY REDLINES AS PER 05/15/13 COMMENTS

**REVISIONS**

**BY**

**R.R.**

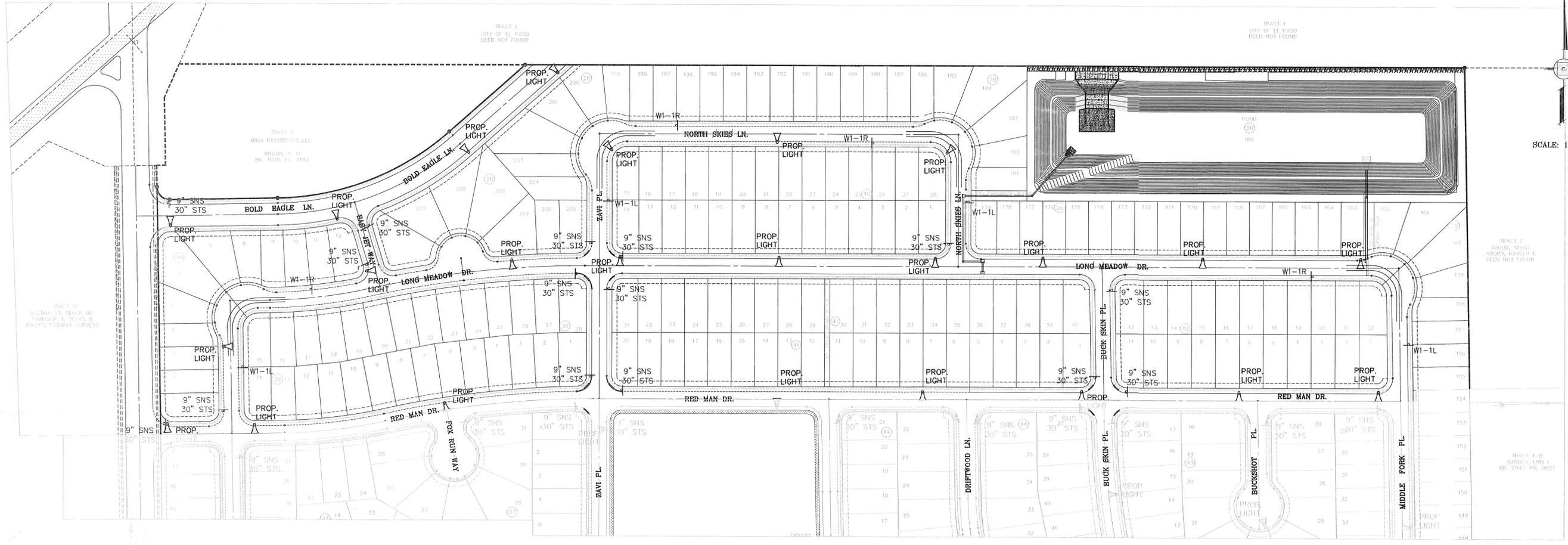
**R.R.**

**CITY MONUMENT AT THE CENTERLINE INTERSECTION OF COPPER CANYON DRIVE AND COPPER MINE LANE. ELEVATION 4007.42 CITY DATUM**

**SHEET TITLE**  
PROPOSED CONCRETE SPILLWAY WITH SECTIONS

**SHT 59 OF 80**

FILE S:\\_Subdivisions\MESQUITE HILLS 7-DWG\ILLUMINATION PLAN PLOTTED Thursday, May 01, 2014 4:54:39 PM



SCALE: 1" = 100'

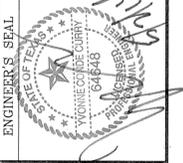
**LEGEND**

-  PROPOSED LIGHT
-  EXISTING LIGHT
-  PROPOSED SIGN

BENCHMARK	
CITY MONUMENT AT THE CENTERLINE INTERSECTION OF COPPER CANYON DRIVE AND COPPER MINE LANE. ELEVATION 4007.42	.....CITY DATUM
DATE	REVISIONS
04/19/13	2ND SET OF CITY COMMENTS
BY	R.R.

**PROJECT NAME**  
**MESQUITE HILLS UNIT SEVEN**  
 BEING PORTION OF TRACTS 5 AND 6, SECTION 16, BLOCK 80, TOWNSHIP 1E, RANGE 1E, COUNTY, TEXAS SURVEYS, CITY OF EL PASO, TEXAS CONTAINING 106.76 ACRES

**S C A L E**  
 HORIZ: 1"=100'  
 VERT: ---  
 DATE: DEC. 2012  
 DESIGN BY: YC  
 INITIATED BY: RR  
 CHECKED BY: YC & FC  
 JOB NO.: 512-24



**CONDE INC.**  
 ENGINEERING / PLANNING  
 SURVEYING / GPS  
 6080 SURETY DR. STE 100  
 EL PASO, TEXAS 79905  
 PHONE: (915) 692-0283  
 FAX: (915) 692-0286

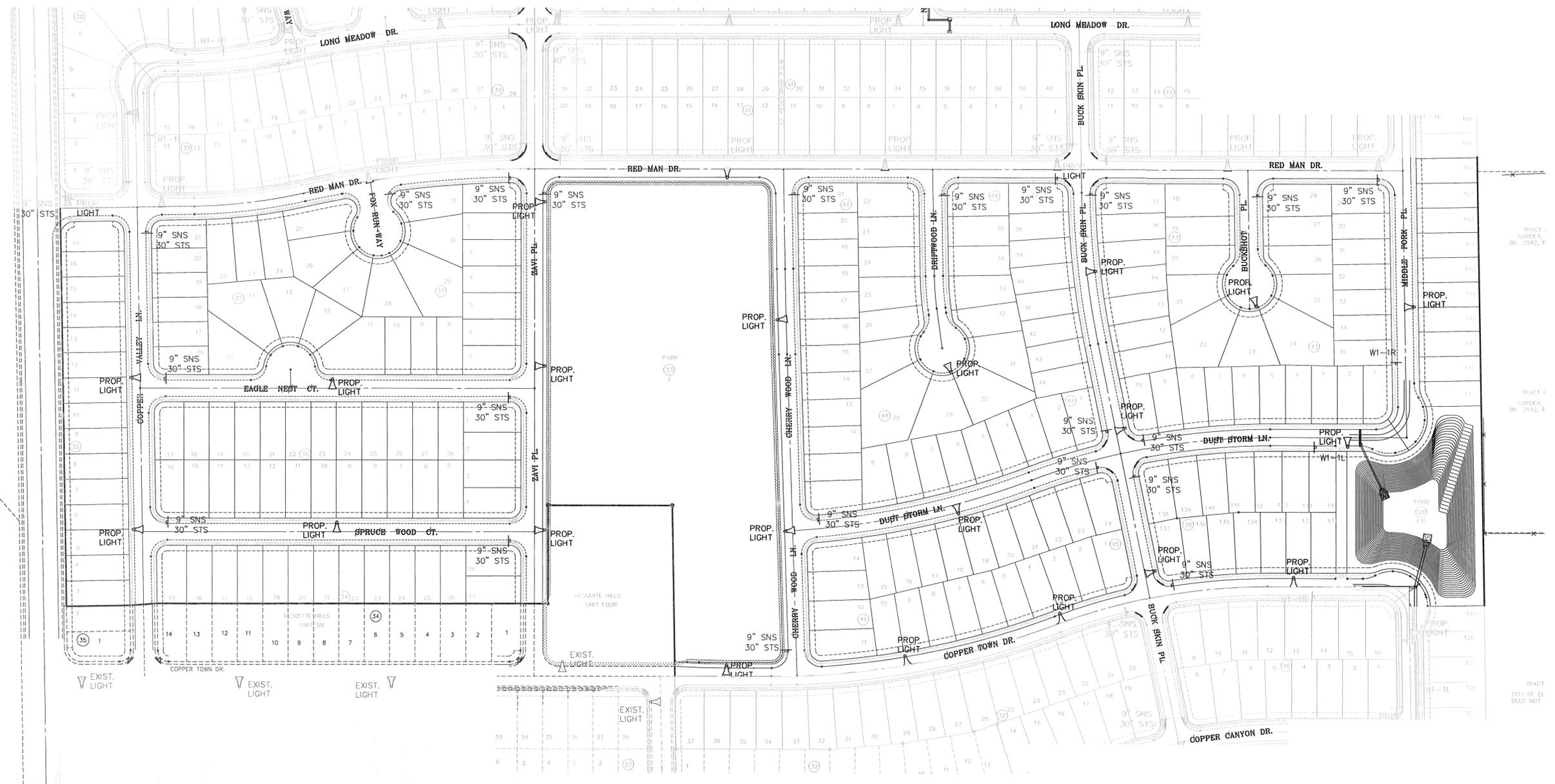


SHEET TITLE  
**ILLUMINATION AND TRAFFIC CONTROL PLAN**  
 SHT 60 OF 80

CITY DEVELOPMENT DEPARTMENT  
**REVIEWED**

MESQUITE HILLS UNIT SEVEN

FILE SA - Subdivisions\MESQUITE HILLS 7\DWG\ILLUMINATION PLAN PLOTTED Thursday, May 01, 2014 4:54:47 PM



BENCHMARK	CITY MONUMENT AT THE CENTERLINE INTERSECTION OF COPPER CANYON DRIVE AND COPPER MINE LANE. ELEVATION 4007.42
DATE	04/19/13
REVISIONS	2ND SET OF CITY COMMENTS
BY	R.R.

**PROJECT NAME**  
**MESQUITE HILLS UNIT SEVEN**  
 BEING PORTION OF TRACTS 5 AND 6, SECTION 16, BLOCK 80, TOWNSHIP 1, TEXAS AND PACIFIC RAILROAD CO. SURVEYS, CITY OF EL PASO, EL PASO COUNTY, TEXAS CONTAINING: 108.78 ACRES

<b>SCALE</b>	HORIZ: 1"=100'
<b>VERT:</b>	---
<b>DATE:</b>	DEC. 2012
<b>DESIGN BY:</b>	YC
<b>INITIATED BY:</b>	RR
<b>CHECKED BY:</b>	YC & FC
<b>JOB NO.:</b>	512-24



**CONDE INC.**  
 ENGINEERING / PLANNING  
 SURVEYING / GIS  
 6060 SURVEY DR. STE. 100  
 EL PASO, TEXAS 79905  
 PHONE: (915) 592-0283  
 FAX: (915) 592-0286

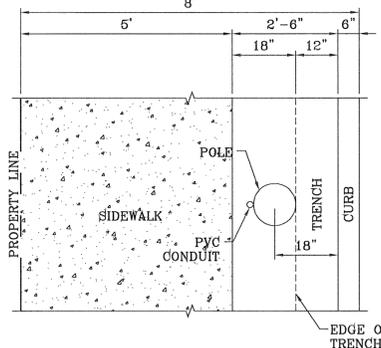
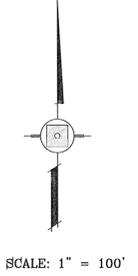
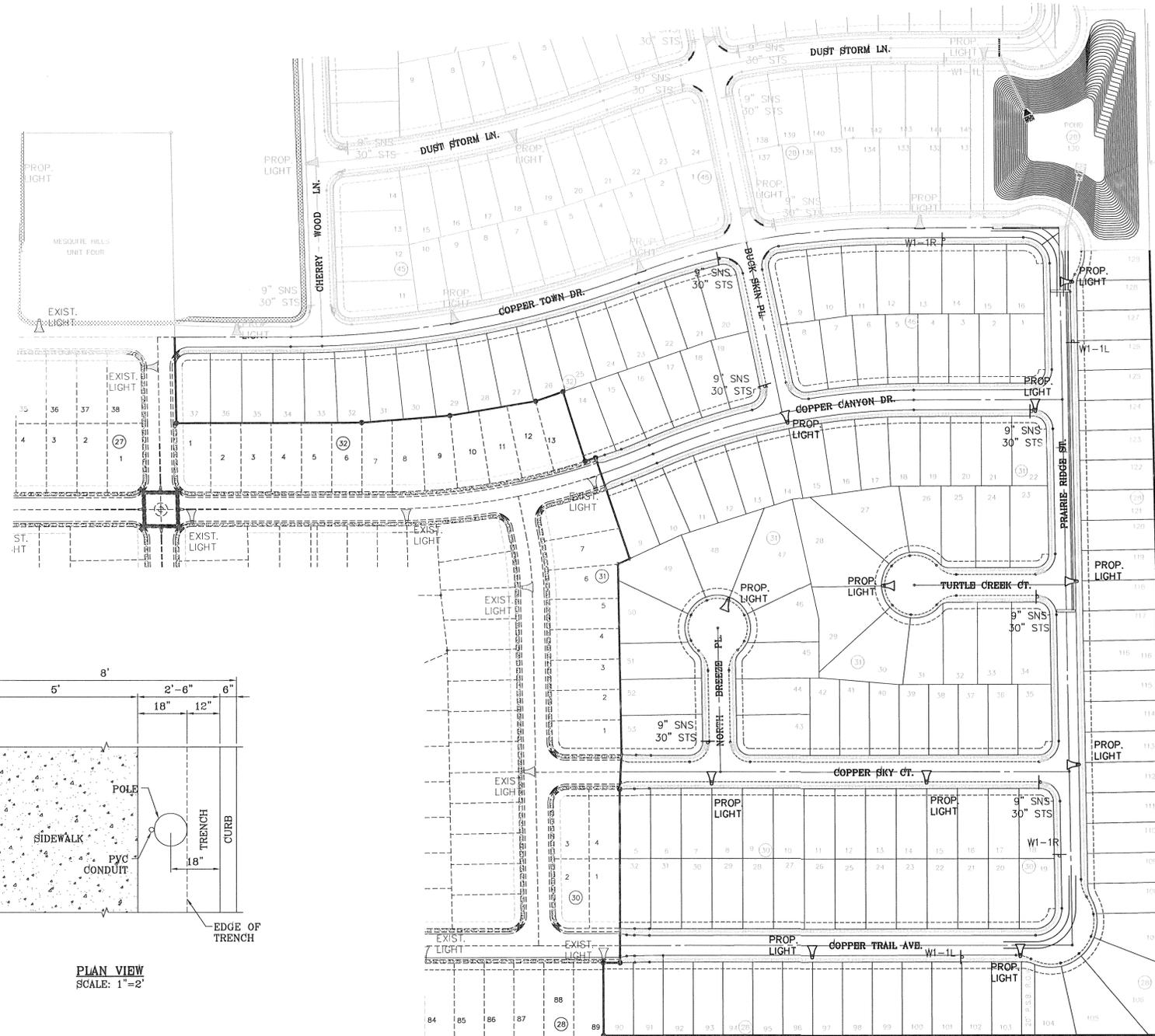


**SHEET TITLE**  
**ILLUMINATION AND TRAFFIC CONTROL PLAN**  
 SHT 61 OF 80

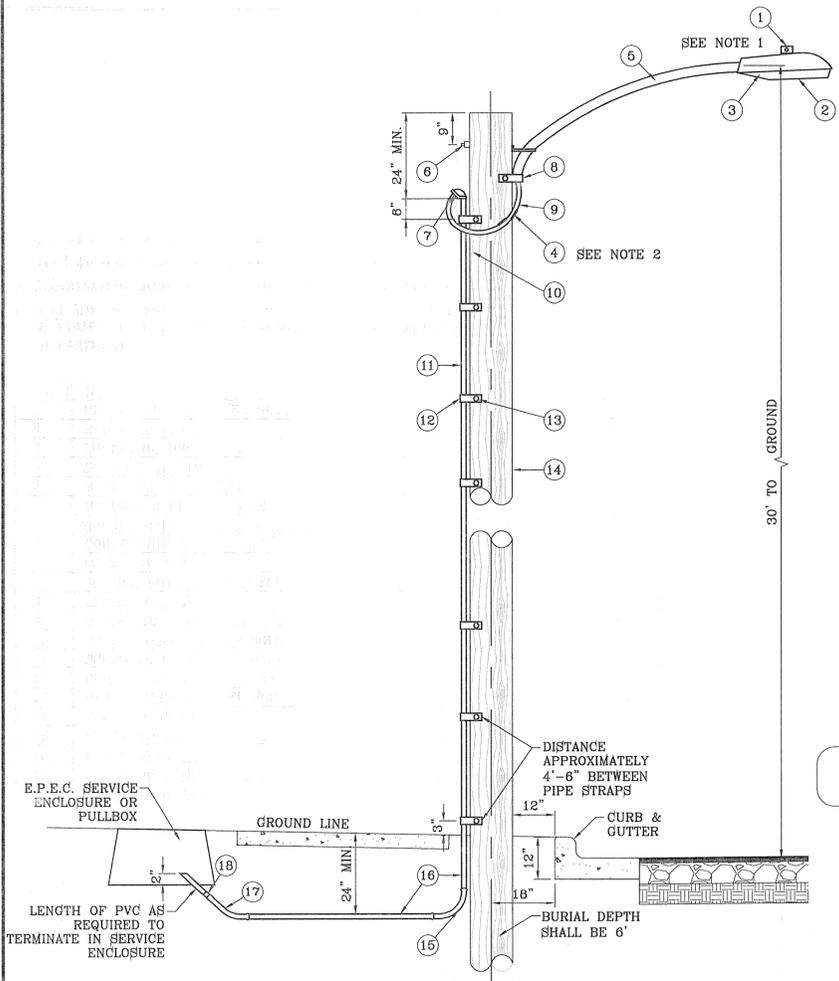
CITY DEVELOPMENT DEPARTMENT  
**REVIEWED**

- 1 MOUNT SO THAT PHOTO CELL IS FACING NORTH.
- 2 ITEM #9 SHALL NOT BE SPLICED INSIDE ITEM #6.
- 3 INSTALLATION MUST COMPLY WITH LOCAL CODE REQUIREMENTS.
- 4 FOR ANY CLARIFICATION, EXCEPTIONS OR QUESTIONS REGARDING THIS STANDARD, CALL THE EL PASO ELECTRIC COMPANY DISTRIBUTION DESIGN DEPARTMENT.

ITEM	No.	DESCRIPTION	STOCK\DSU No.	QTY.	C\U CODE	MACRO CODE
1		PHOTOCELL, 240 V-SEE NOTE 1	21-225	1		
2		HPS LAMP 100 W	21-085	1	LCBRAHD	
3		LUMINAIRE, 100 W HPS	21-335	1		
4		SLEEVES, #12-10	05-140	2		
5		MAST ARM, 6" x 1 1/4"	21-200	1	LBRKT1*6	
		MACHINE BOLT, 5/8" x 12"	02-470	1		
		SQUARE GALV. WASHER, 2 1/4"x2 1/4"	02-760	1	LMB6/812	
		COIL SPRING WASHER, 5/8"	02-786	1		
		LOCK NUT, 5/8"	02-706	1		
7		SERVICE ENTRANCE CAP FOR 1" PVC CONDUIT	17-281	1	LSVCCAP1	
8		LAG BOLT, 1/2" x 3"	02-343	2	LLAG12*3	
9		CABLE #10, 2 CONDUCTOR, 600V, UF	13-600	8'	L2C#10S	
10		COPPER CBL, #12, 19 SOLID, 600V BLUE	13-702	60'	LC#12CU	
11		SCHEDULE 80 1" PVC CONDUIT	17-280	30'	LSCH801	
12		PIPE STRAP FOR 1" PVC CONDUIT 2 HOLE	17-283	7	LPVCS2RP	
13		NAIL, STAINLESS STEEL SCREW 2.5"	14-427	.25#	LNALL4*2	
14		POLE, 35' CLASS 4	09-035	1	L354UG	
15		1" PVC 90 DEGREE ELBOW	17-297	1	LEL901	
16		1" PVC CONDUIT	17-299	AS REQ'D	LPVC1	
17		1" PVC 45 DEGREE ELBOW	17-298	1	LEL451	
18		1" PVC COUPLING	17-296	1	LCPLG1	



PLAN VIEW  
SCALE: 1"=2'

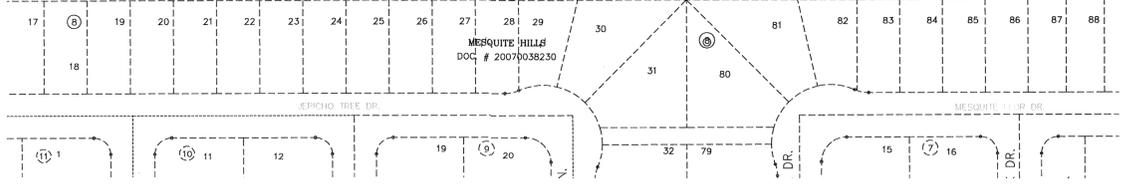


UNDERGROUND RESIDENTIAL  
STREET LIGHT WOOD POLE  
E.P.E.C. STD. DSU 805  
SCALE: 1"=2'

**NOTE:** STREET LIGHTING TO BE IN ACCORDANCE WITH EL PASO DESIGN STANDARDS, SECTION VIII

**NOTE:** INSTALL TRAFFIC CONTROL DEVICES AS SHOWN AND IN ACCORDANCE WITH CITY OF EL PASO DESIGN STANDARDS, SECTION VII

- LEGEND**
- ▲ PROPOSED LIGHT
  - \* EXISTING LIGHT
  - ⊥ STOP SIGN WITH STREET NAME



BENCHMARK  
CITY MONUMENT AT THE CENTERLINE INTERSECTION OF  
COPPER CANYON DRIVE AND COPPER MINE LANE.  
ELEVATION 4007.42 .....CITY DATUM

REVISIONS

DATE	04/19/13	BY	R.R.
2ND SET OF CITY COMMENTS			

PROJECT NAME  
**MESQUITE HILLS UNIT SEVEN**  
BEING PORTION OF TRACTS 5 AND 6, SECTION 16, BLOCK  
80, TOWNSHIP 1, TEXAS AND PACIFIC RAILROAD CO.  
SURVEYS, CITY OF EL PASO, EL PASO COUNTY, TEXAS  
CONTAINING: 108.78 ACRES

SCALE  
HORIZ: 1"=100'  
VERT: ---

DATE: DEC. 2012  
DESIGN BY: YC  
INITIATED BY: RR  
CHECKED BY: YC & FC  
JOB NO.: 512-24

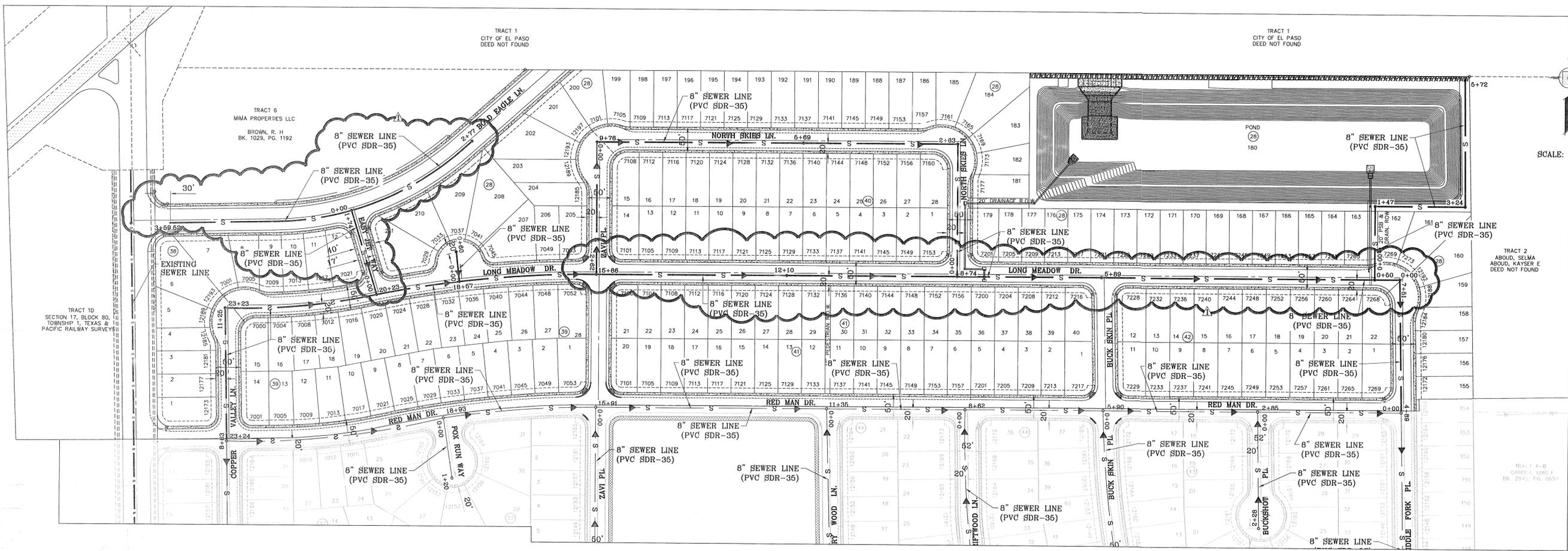
**CONDE INC.**  
ENGINEERING / PLANNING  
SURVEYING / GPS  
6080 SURETY DR. STE 100  
EL PASO, TEXAS 79905  
PHONE: (915) 592-0285  
FAX: (915) 592-0286

CONDE INC.  
REGISTRATION No. 5321

SHEET TITLE  
**ILLUMINATION AND TRAFFIC CONTROL PLAN**

CITY DEVELOPMENT DEPARTMENT  
**REVIEWED**

SHT 62 OF 80  
MESQUITE HILLS UNIT SEVEN



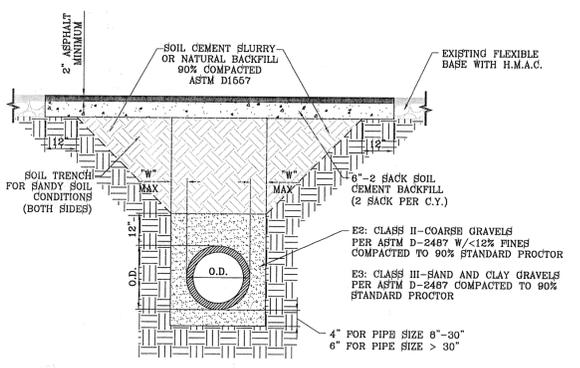
**PROPOSED 12" PVC SDR-35 SANITARY SEWER PIPE LINES**

STREET NAME	PIPE LENGTH
PRAIRIE RIDGE ST.	1,087 FEET

**PROPOSED 8" PVC SDR-35 SANITARY SEWER PIPE LINES**

STREET NAME	PIPE LENGTH
COPPER VALLEY LN.	975 FEET
LONG MEADOW DR.	2,323 FEET
LONG MEADOW DR. (EYEBROW)	60 FEET
MIDDLE FORK PL.	751 FEET
DUST STORM LN.	1,146 FEET
COPPER TOWN DR.	1,361 FEET
COPPER CANYON DR.	693 FEET
COPPER SKY CT.	711 FEET
COPPER TRAIL AVE.	62 FEET
TURTLE CREEK CT.	251 FEET
NORTH BREEZE PL.	246 FEET
SPRUCE WOOD CT.	719 FEET
EAGLE NEST CT.	723 FEET
EAGLE NEST CT. (EYEBROW)	64 FEET
ZAVI PL.	1,033 FEET
NORTH SKIBS LN.	976 FEET
RED MAD DR.	2,324 FEET
BUCKSHOT PL.	228 FEET
DRIFTWOOD LN.	353 FEET
CHERRY WOOD LN.	925 FEET
FOX RUN WAY	120 FEET
BUCK SKIN PL.	527 FEET
20' PSB & DRAIN. R.O.W.	572 FEET
EASY JET WAY	262 FEET
BOLD EAGLE LN.	636 FEET

STREET NAME	PROFILE SHEET
COPPER VALLEY LN.	SHEET 63
LONG MEADOW DR.	SHEET 63
MIDDLE FORK PL.	SHEET 63
DUST STORM LN.	SHEET 63
COPPER TOWN DR.	SHEET 66
COPPER CANYON DR.	SHEET 66
COPPER SKY CT.	SHEET 65
COPPER TRAIL AVE.	SHEET 65
PRAIRIE RIDGE ST.	SHEET 65
TURTLE CREEK CT.	SHEET 65
NORTH BREEZE PL.	SHEET 66
SPRUCE WOOD CT.	SHEET 66
EAGLE NEST CT.	SHEET 66
ZAVI PL.	SHEET 66
NORTH SKIBS LN.	SHEET 66
RED MAD DR.	SHEET 64
BUCKSHOT PL.	SHEET 64
DRIFTWOOD LN.	SHEET 64
CHERRY WOOD LN.	SHEET 64
FOX RUN WAY	SHEET 64
BUCK SKIN PL.	SHEET 64
20' PSB & DRAIN. R.O.W.	SHEET 67
20' PSB R.O.W. BY POND B	SHEET 67



- GENERAL NOTES:**
- NATURAL MATERIAL MAY BE USED PROVIDED IT MEETS THE SPECIFICATIONS FOR CLASS II OR III MATERIALS.
  - EMBEDMENT CONDITIONS SHOWN FOR DRY TRENCH.

- CONSTRUCTION KEY NOTES:**
- PLACE EMBEDMENT MATERIAL IN 8" MAX. LIFTS AND COMPACT AS SPECIFIED
- TRENCH DIMENSIONS "W" AS FOLLOWS:
- | PIPE DIAMETER    | "W"    |
|------------------|--------|
| LESS THAN 24"    | 9"     |
| 24" THRU 48"     | 12"    |
| GREATER THAN 48" | O.D./4 |

**STREET PAVING OUT FOR FLEXIBLE PIPE**  
SCALE: 1"=2'

SCALE: 1" = 100'

BENCHMARK

CITY MONUMENT AT THE CENTERLINE INTERSECTION OF COPPER CANYON DRIVE AND COPPER MINE LANE. ELEVATION 4007.42

DATE	REVISIONS	BY
03/03/13	CITY REDLINES AS PER 03/03/13 COMMENTS	R.R.
04/19/13	2ND SET OF CITY COMMENTS	R.R.
12/01/13	REVISIONS AS PER CLIENT	R.R.
12/19/13	REVISIONS AS PER CLIENT	R.R.

**MESQUITE HILLS UNIT SEVEN**

BEING PORTION OF TRACTS 5 AND 6, SECTION 16, BLOCK 80, TOWNSHIP 1, TEXAS AND PACIFIC RAILROAD CO. SURVEYS, CITY OF EL PASO, EL PASO COUNTY, TEXAS CONTAINING: 108.78 ACRES

SCALE: HORIZ: 1" = 100' VERT: ---

DATE: DEC. 2012  
DESIGN BY: YC  
INITIATED BY: RR  
CHECKED BY: YC & FC  
JOB NO.: 512-24



**CONDE INC.**  
ENGINEERING / PLANNING  
SURVEYING / GPS  
6080 SURETY DR. STE. 100  
EL PASO, TEXAS 79905  
PHONE: (915) 592-0263  
FAX: (915) 592-0286



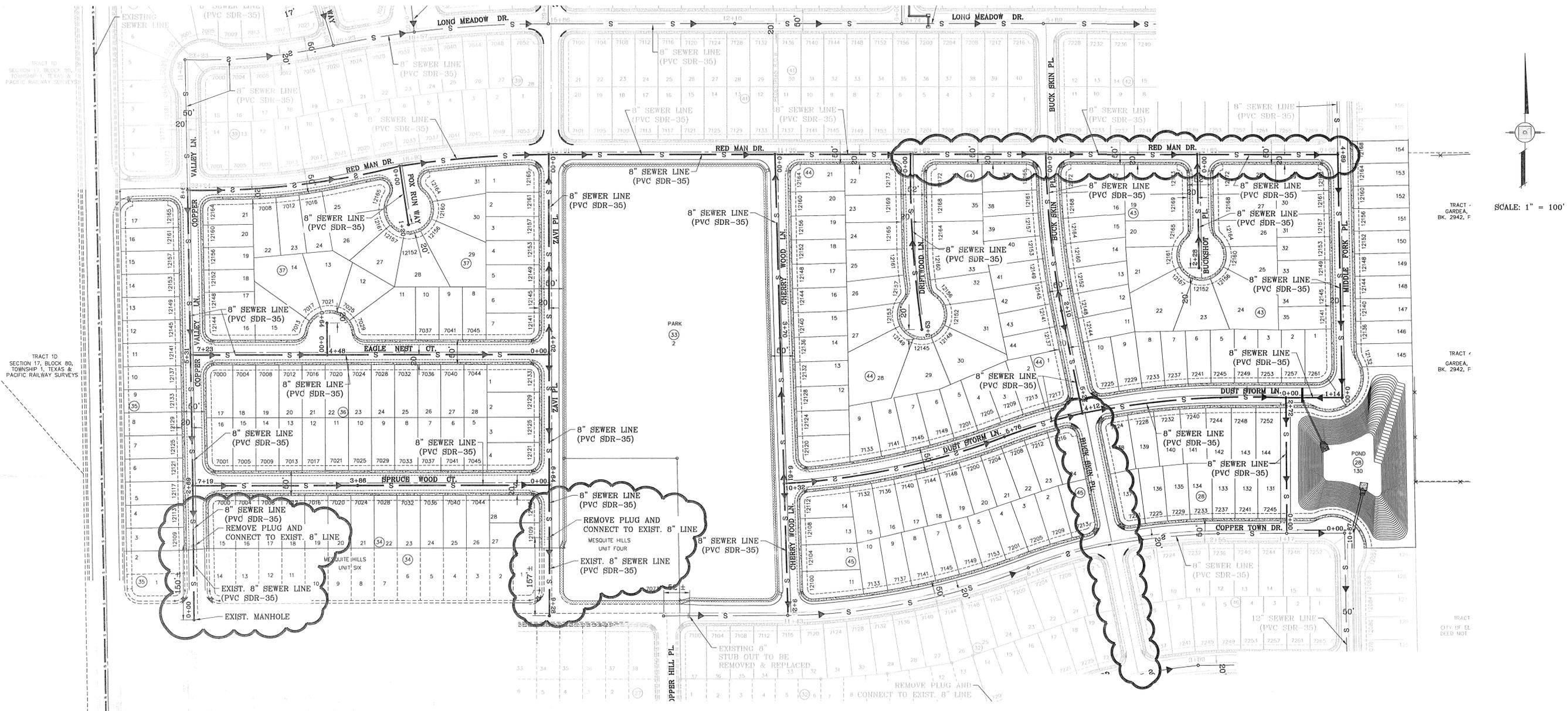
SHEET TITLE

**SEWER DISTRIBUTION PLAN**

CITY DEVELOPMENT DEPARTMENT

REVIEWED

FILE: S:\Subdivisions\MESQUITE\_HILLS\_7\DWG\SEWER\_DISTRIBUTION\_PLOTTED\_Thursday, May 01, 2014 4:55:21 PM

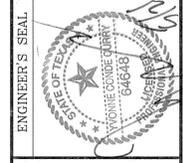


SCALE: 1" = 100'

BENCHMARK  
CITY MONUMENT AT THE CENTERLINE INTERSECTION OF COPPER CANYON DRIVE AND COPPER MINE LANE. ELEVATION 4007.42  
DATE 05/03/13  
BY R.R.  
04/19/13  
CITY REVISIONS AS PER 05/03/13 COMMENTS  
2ND SET OF CITY COMMENTS  
12/01/13  
REVISIONS AS PER CLIENT

PROJECT NAME  
**MESQUITE HILLS UNIT SEVEN**  
BEING PORTION OF TRACTS F AND G AND SECTION 16 BLOCK 80 TOWNSHIP 1, TEXAS & PACIFIC RAILROAD, COUNTY SURVEYS, CITY OF EL PASO, EL PASO COUNTY, TEXAS  
CONTAINING: 108.78 ACRES

SCALE  
HORIZ: 1" = 100'  
VERT: ---  
DATE: DEC. 2012  
DESIGN BY: YC  
INITIATED BY: RR  
CHECKED BY: YC & FC  
JOB NO.: 612-24



PROPOSED 12" PVC SDR-35 SANITARY SEWER PIPE LINES

STREET NAME	PIPE LENGTH
PRAIRIE RIDGE ST.	1,087 FEET

PROPOSED 8" PVC SDR-35 SANITARY SEWER PIPE LINES

STREET NAME	PIPE LENGTH
COPPER VALLEY LN.	975 FEET
LONG MEADOW DR.	2,323 FEET
LONG MEADOW DR. (EYEBROW)	80 FEET
MIDDLE FORK PL.	761 FEET
DUST STORM LN.	1,146 FEET
COPPER TOWN DR.	1,361 FEET
COPPER CANYON DR.	693 FEET
COPPER SKY CT.	711 FEET
COPPER TRAIL AVE.	62 FEET
TURTLE CREEK CT.	251 FEET
NORTH BREEZE PL.	246 FEET
SPRUCE WOOD CT.	719 FEET
EAGLE NEST CT.	723 FEET
EAGLE NEST CT. (EYEBROW)	64 FEET
ZAVI PL.	1,033 FEET
NORTH SKIES LN.	976 FEET
RED MAD DR.	2,324 FEET
BUCKSHOT PL.	228 FEET
DRIFTWOOD LN.	353 FEET
CHERRY WOOD LN.	925 FEET
FOX RUN WAY	120 FEET
BUCK SKIN PL.	627 FEET
20' PSB & DRAIN. R.O.W.	572 FEET
EASY JET WAY	262 FEET
BOLD EAGLE LN.	636 FEET

STREET NAME	PROFILE SHEET
COPPER VALLEY LN.	SHEET 63
LONG MEADOW DR.	SHEET 63
MIDDLE FORK PL.	SHEET 63
DUST STORM LN.	SHEET 63
COPPER TOWN DR.	SHEET 65
COPPER CANYON DR.	SHEET 66
COPPER SKY CT.	SHEET 65
COPPER TRAIL AVE.	SHEET 65
PRAIRIE RIDGE ST.	SHEET 65
TURTLE CREEK CT.	SHEET 65
NORTH BREEZE PL.	SHEET 65
SPRUCE WOOD CT.	SHEET 66
EAGLE NEST CT.	SHEET 66
ZAVI PL.	SHEET 66
NORTH SKIES LN.	SHEET 66
RED MAD DR.	SHEET 64
BUCKSHOT PL.	SHEET 64
DRIFTWOOD LN.	SHEET 64
CHERRY WOOD LN.	SHEET 64
FOX RUN WAY	SHEET 64
BUCK SKIN PL.	SHEET 64
20' PSB & DRAIN. R.O.W.	SHEET 67
20' PSB R.O.W. BY POND B	SHEET 67

CITY DEVELOPMENT DEPARTMENT

REVIEWED

CONDE INC.  
ENGINEERING / PLANNING  
SURVEYING / GPS  
6080 SURETY DR. STE 100  
EL PASO, TEXAS 79905  
PHONE: (915) 592-0283  
FAX: (915) 592-0286



SHEET TITLE  
**SEWER DISTRIBUTION PLAN**

FILE: SA\_Subdivisions\MESQUITE\_HILLS\_7\DWG\SEWER\_DISTRIBUTION\_PLOTTED\_Thursday, May 01, 2014 4:55:41 PM

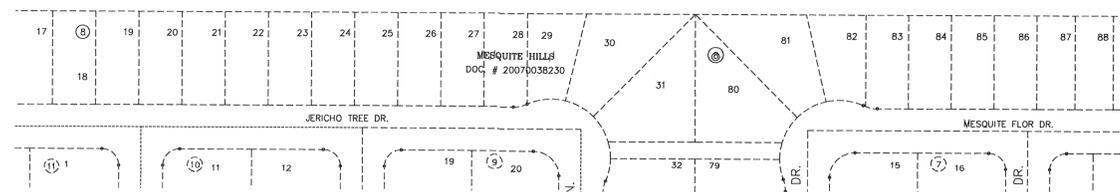
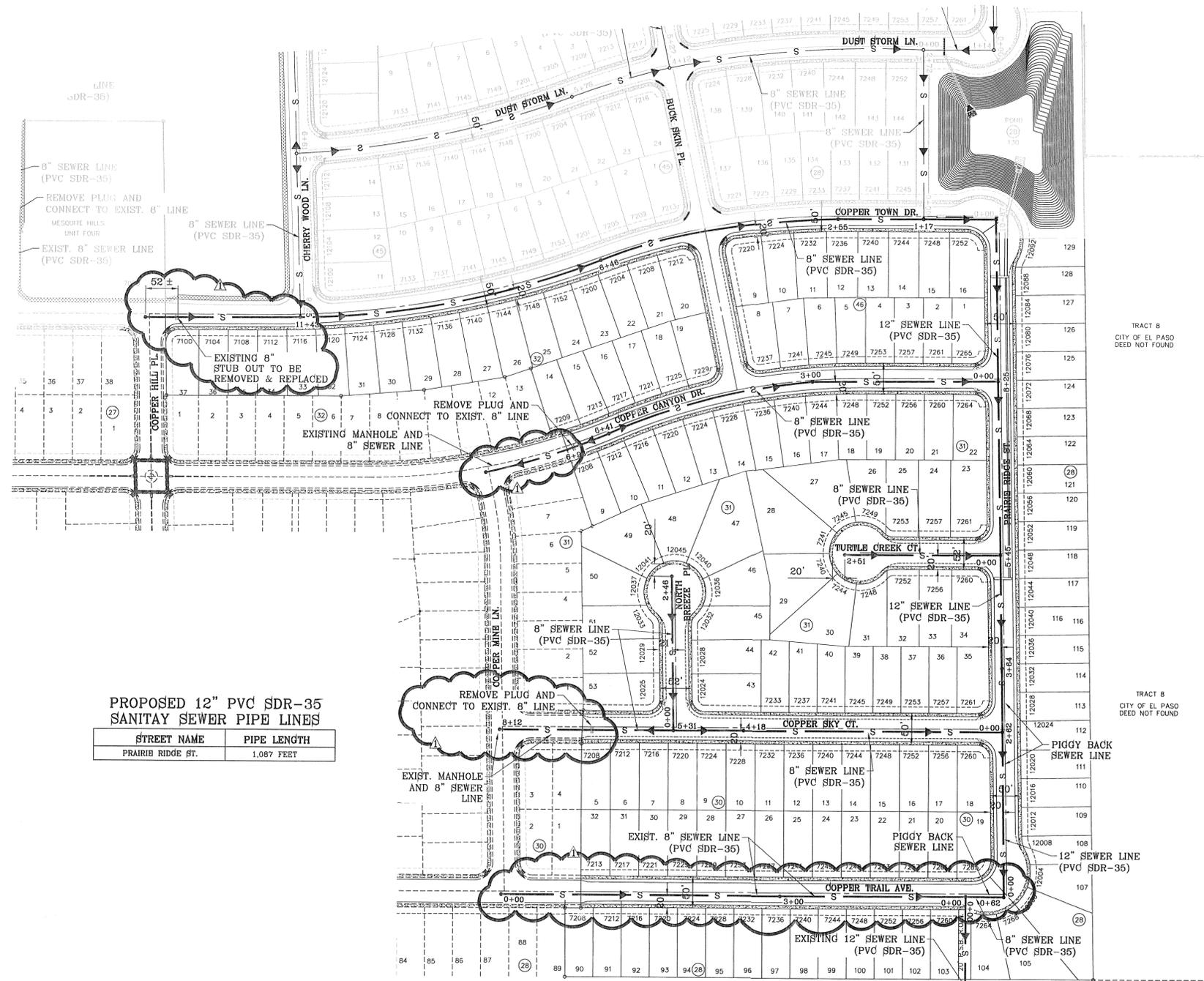
STREET NAME	PROFILE SHEET
COPPER VALLEY LN.	SHEET 63
LONG MEADOW DR.	SHEET 63
MIDDLE FORK PL.	SHEET 63
DUST STORM LN.	SHEET 63
COPPER TOWN DR.	SHEET 65
COPPER CANYON DR.	SHEET 66
COPPER SKY CT.	SHEET 66
COPPER TRAIL AVE.	SHEET 66
PRAIRIE RIDGE ST.	SHEET 65
TURTLE CREEK CT.	SHEET 65
NORTH BRREEZE PL.	SHEET 65
SPRUCE WOOD CT.	SHEET 66
EAGLE NEST CT.	SHEET 66
ZAVI PL.	SHEET 66
NORTH SKIBS LN.	SHEET 66
RED MAD DR.	SHEET 64
BUCKSHOT PL.	SHEET 64
DRIFTWOOD LN.	SHEET 64
CHERRY WOOD LN.	SHEET 64
FOX RUN WAY	SHEET 64
BUCK SKIN PL.	SHEET 64
20' PSB & DRAIN. R.O.W.	SHEET 67
20' PSB R.O.W. BY POND B	SHEET 67

**PROPOSED 8" PVC SDR-35 SANITARY SEWER PIPE LINES**

STREET NAME	PIPE LENGTH
COPPER VALLEY LN.	976 FEET
LONG MEADOW DR.	2,323 FEET
LONG MEADOW DR. (EYEBROW)	60 FEET
MIDDLE FORK PL.	751 FEET
DUST STORM LN.	1,146 FEET
COPPER TOWN DR.	1,361 FEET
COPPER CANYON DR.	693 FEET
COPPER SKY CT.	711 FEET
COPPER TRAIL AVE.	62 FEET
TURTLE CREEK CT.	251 FEET
NORTH BRREEZE PL.	246 FEET
SPRUCE WOOD CT.	719 FEET
EAGLE NEST CT.	723 FEET
EAGLE NEST CT. (EYEBROW)	64 FEET
ZAVI PL.	1,033 FEET
NORTH SKIBS LN.	976 FEET
RED MAD DR.	2,324 FEET
BUCKSHOT PL.	228 FEET
DRIFTWOOD LN.	353 FEET
CHERRY WOOD LN.	925 FEET
FOX RUN WAY	120 FEET
BUCK SKIN PL.	527 FEET
20' PSB & DRAIN. R.O.W.	572 FEET
EASY JET WAY	262 FEET
BOLD EAGLE LN.	636 FEET

**PROPOSED 12" PVC SDR-35 SANITARY SEWER PIPE LINES**

STREET NAME	PIPE LENGTH
PRAIRIE RIDGE ST.	1,087 FEET



SCALE: 1" = 100'

CITY DEVELOPMENT DEPARTMENT  
**REVIEWED**

BENCHMARK

CITY MONUMENT AT THE CENTERLINE INTERSECTION OF COPPER CANYON DRIVE AND COPPER MINE LANE  
ELEVATION 4007.42 ..... CITY DATUM

DATE	REVISIONS	BY
03/05/13	CITY REDLINES AS PER 03/03/13 COMMENTS	R.R.
04/19/13	2ND SET OF CITY COMMENTS	R.R.
12/01/13	REVISIONS AS PER CLIENT	R.R.

**MESQUITE HILLS UNIT SEVEN**  
BEING PORTION OF TRACTS 5 AND 6, SECTION 16, BLOCK 16, TOWNSHIP 1 TEXAS & PACIFIC RAILROAD CO. SURVEY, CITY OF EL PASO COUNTY, TEXAS  
CONTAINING: 108.78 ACRES

SCALE  
HORIZ: 1" = 100'  
VERT: ---

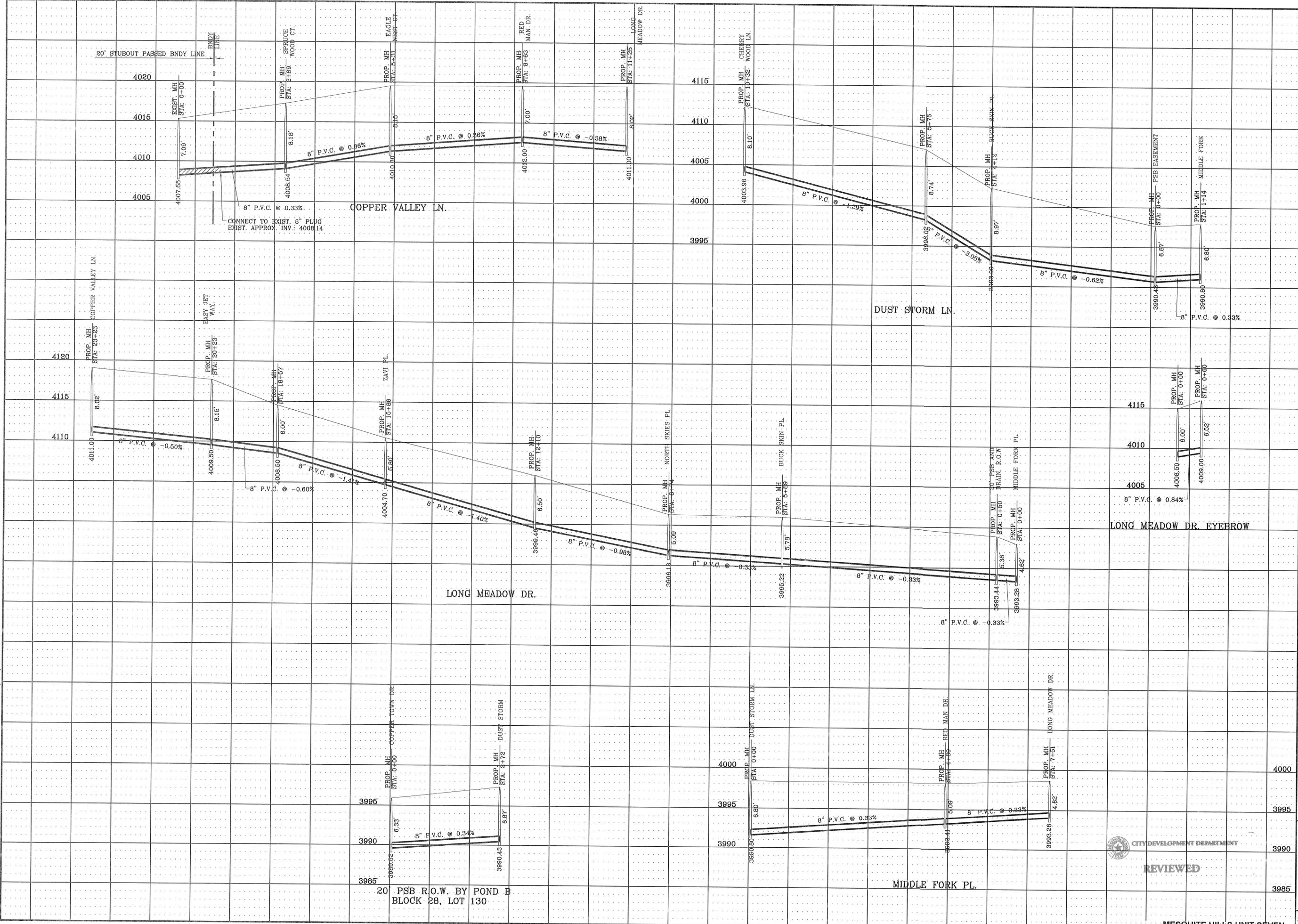
DATE: DEC. 2012  
DESIGN BY: YC  
INITIATED BY: BR  
CHECKED BY: YC & FC  
JOB NO.: 612-24



**CONDE INC.**  
ENGINEERING / PLANNING  
SURVEYING / GPS  
6080 SURETY DR. STE 100  
EL PASO, TEXAS 79905  
PHONE: (915) 692-0263  
FAX: (915) 692-0266

**CONDE INC.**  
REGISTRATION No. F-2321

**SEWER DISTRIBUTION PLAN**



DATE	REVISIONS	BY
03/03/13	CITY REDLINES AS PER 03/03/13 COMMENTS	R.R.
04/19/13	END SET OF CITY COMMENTS	R.R.
12/01/13	REVISIONS AS PER CLIENT	R.R.

**MESQUITE HILLS UNIT SEVEN**  
 BEING PORTION OF TRACTS 5 AND 6, SECTION 16, BLOCK 80, TOWNSHIP 11S, RANGE 14E, COUNTY OF EL PASO, TEXAS  
 SURVEYS, CITY OF EL PASO, TEXAS  
 CONTAINING: 108.76 ACRES

**SCALE**  
 HORIZ: 1" = 100'  
 VERT: 1" = 4'

DATE: DEC. 2012  
 DESIGN BY: YC  
 INITIATED BY: BR  
 CHECKED BY: YC & FC  
 JOB NO.: 512-24

**ENGINEER'S SEAL**

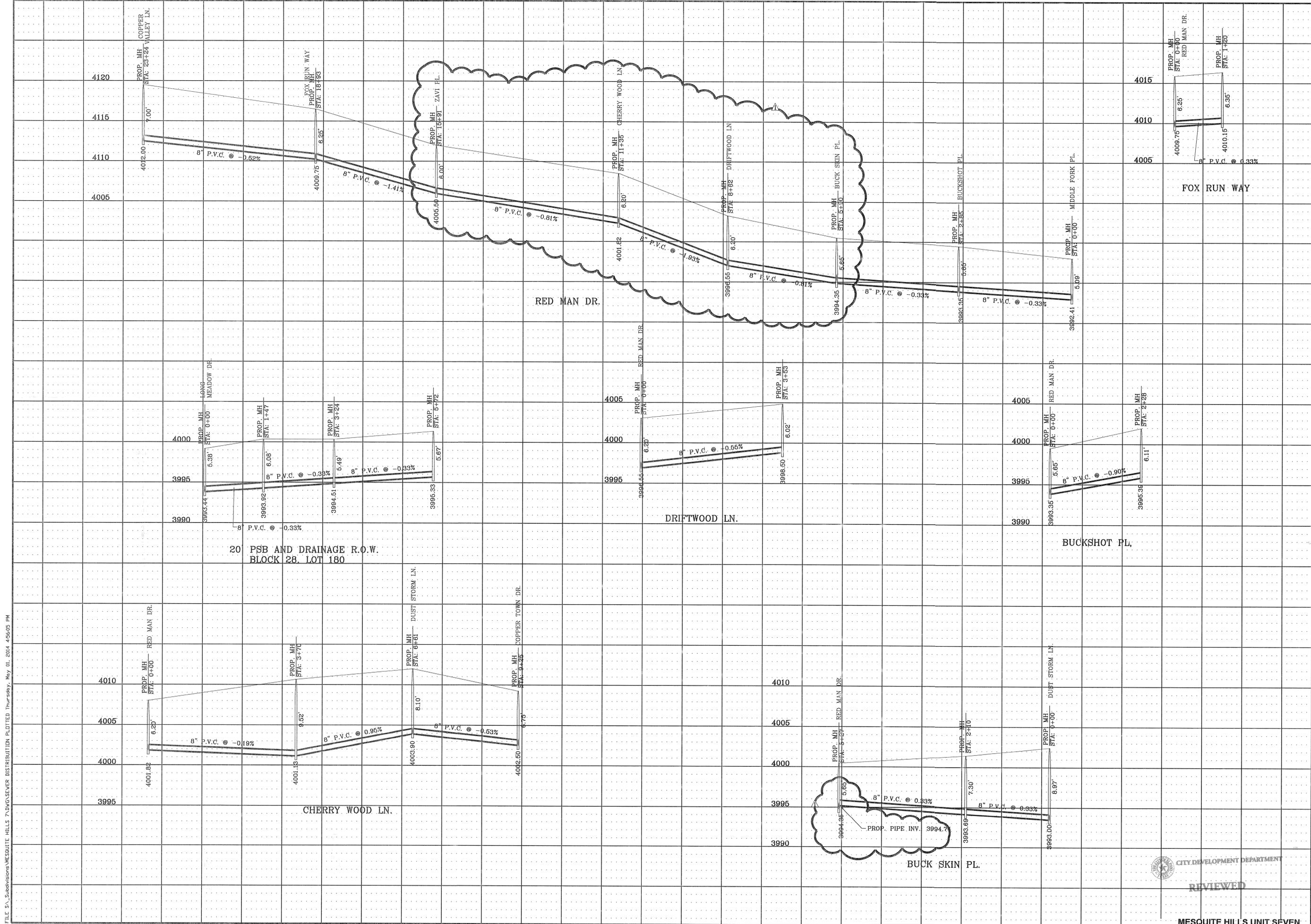
**CONDE INC.**  
 ENGINEERING / PLANNING  
 SURVEYING / GPS  
 6080 SURETY DR. STE 100  
 EL PASO, TEXAS 79905  
 PHONE: (915) 692-0283  
 FAX: (915) 692-0286

**REVIEWED**

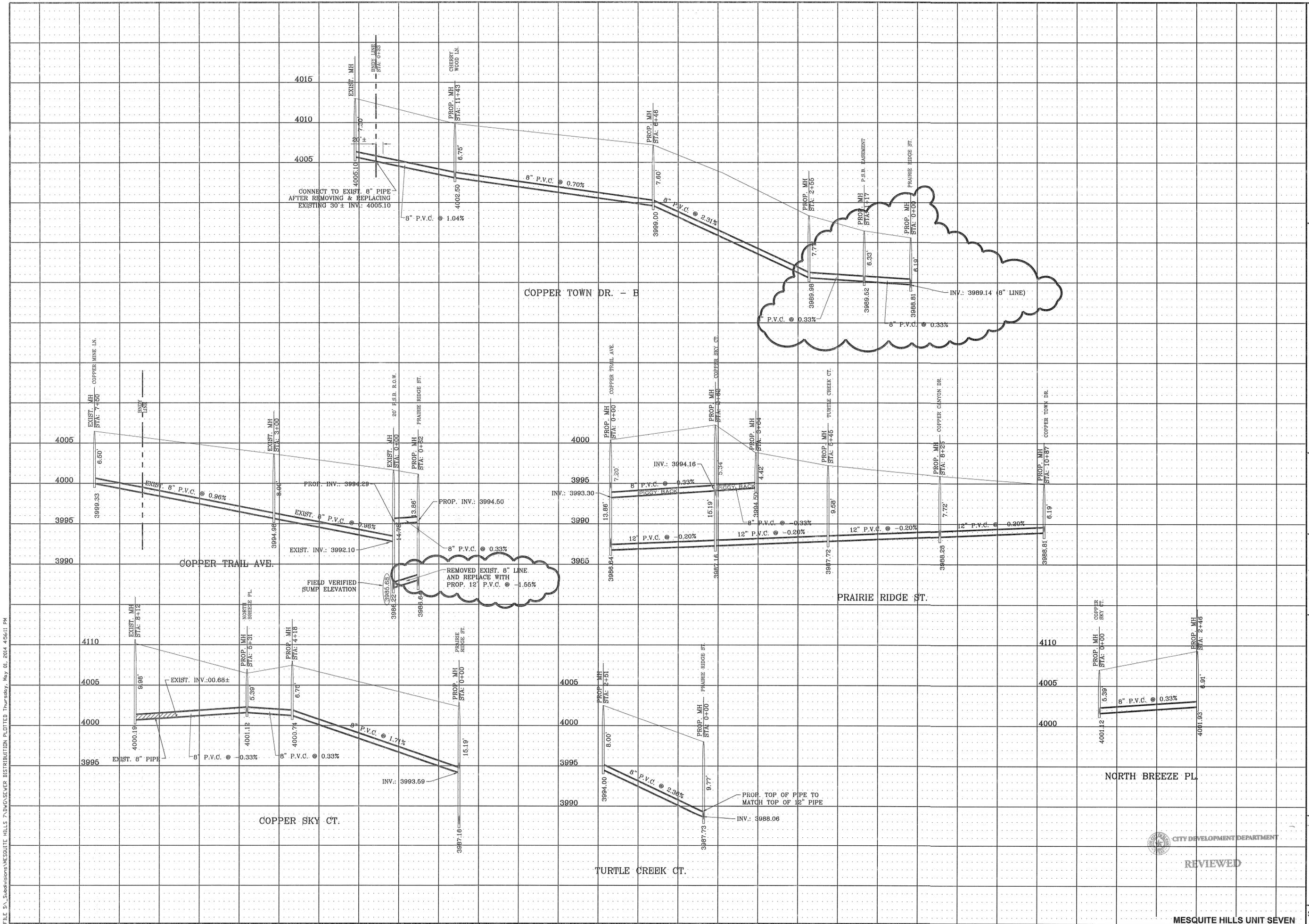
**SEWER PROFILES**

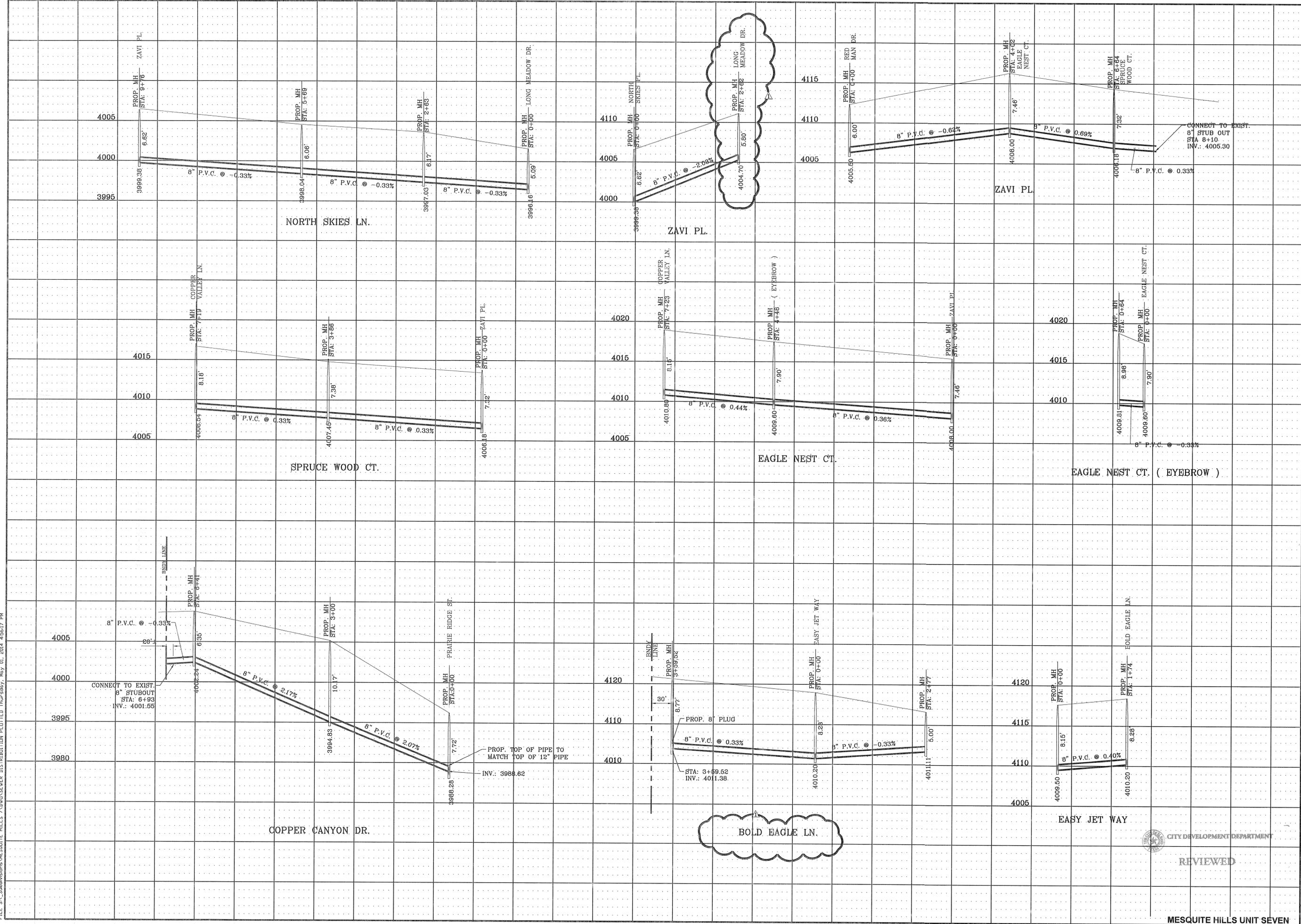
SHT 66 OF 80

FILE: S:\\_Subdivisions\MESQUITE HILLS 7\DWG\SEWER DISTRIBUTION PLOTTED Thursday, May 01, 2014 4:56:05 PM



<b>ENGINEER'S SEAL</b>		<p>ENGINEER'S SEAL</p>	<p><b>CONDE INC.</b>                  ENGINEERING / PLANNING                  SURVEYING / GPS                  6080 SURETY DR. STE 100                  EL PASO, TEXAS 79965                  PHONE: (915) 592-0283                  FAX: (915) 592-0286</p>
<p>PROJECT NAME</p> <p><b>MESQUITE HILLS UNIT SEVEN</b></p> <p>BEING PORTION OF TRACTS 5 AND 6, SECTION 16, BLOCK 80, TOWNSHIP 1, TEXAS AND PACIFIC RAILROAD CO. SURVEYS, CITY OF EL PASO, EL PASO COUNTY, TEXAS CONTAINING: 108.78 ACRES</p>			
<p>BENCHMARK</p> <p>CITY MONUMENT AT THE CENTERLINE INTERSECTION OF COPPER CANYON DRIVE AND COPPER MINE LANE. ELEVATION 4007.42</p>			
<p>DATE</p> <p>03/03/13</p> <p>04/19/13</p> <p>12/01/13</p>			
<p>REVISIONS</p> <p>CITY REDLINES AS PER 03/03/13 COMMENTS</p> <p>2ND SET OF CITY COMMENTS</p> <p>REVISIONS AS PER CLIENT</p>		<p>DATE</p> <p>03/03/13</p> <p>04/19/13</p> <p>12/01/13</p>	
<p>SCALE</p> <p>HORIZ: 1" = 100'</p> <p>VERT: ---</p>		<p>DESIGN BY: YC</p> <p>INITIATED BY: RR</p> <p>CHECKED BY: YC &amp; FC</p> <p>JOB NO.: 512-24</p>	
<p><b>CITY DEVELOPMENT DEPARTMENT</b></p> <p><b>REVIEWED</b></p> <p><b>SEWER PROFILES</b></p>			
<p>SHEET TITLE</p> <p><b>MESQUITE HILLS UNIT SEVEN</b></p> <p>SHT 67 OF 80</p>			





DATE	REVISIONS	BY
03/03/13	CITY REDLINES AS PER 03/03/13 COMMENTS	R.R.
04/19/13	2ND SET OF CITY COMMENTS	R.R.
05/15/13	CITY REDLINES AS PER 05/15/13 COMMENTS	R.R.
12/01/13	A REVISIONS AS PER CLIENT	R.R.

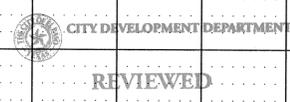
**PROJECT NAME**  
**MESQUITE HILLS UNIT SEVEN**  
 BEING PORTION OF TRACTS 5 AND 6, SECTION 16, BLOCK 80, TOWNSHIP 1, TEXAS AND PACIFIC RAILROAD CO. SURVEYS, CITY OF EL PASO, EL PASO COUNTY, TEXAS CONTAINING: 108.76 ACRES

**SCALE**  
 HORIZ: 1" = 100'  
 VERT: 1" = 10'

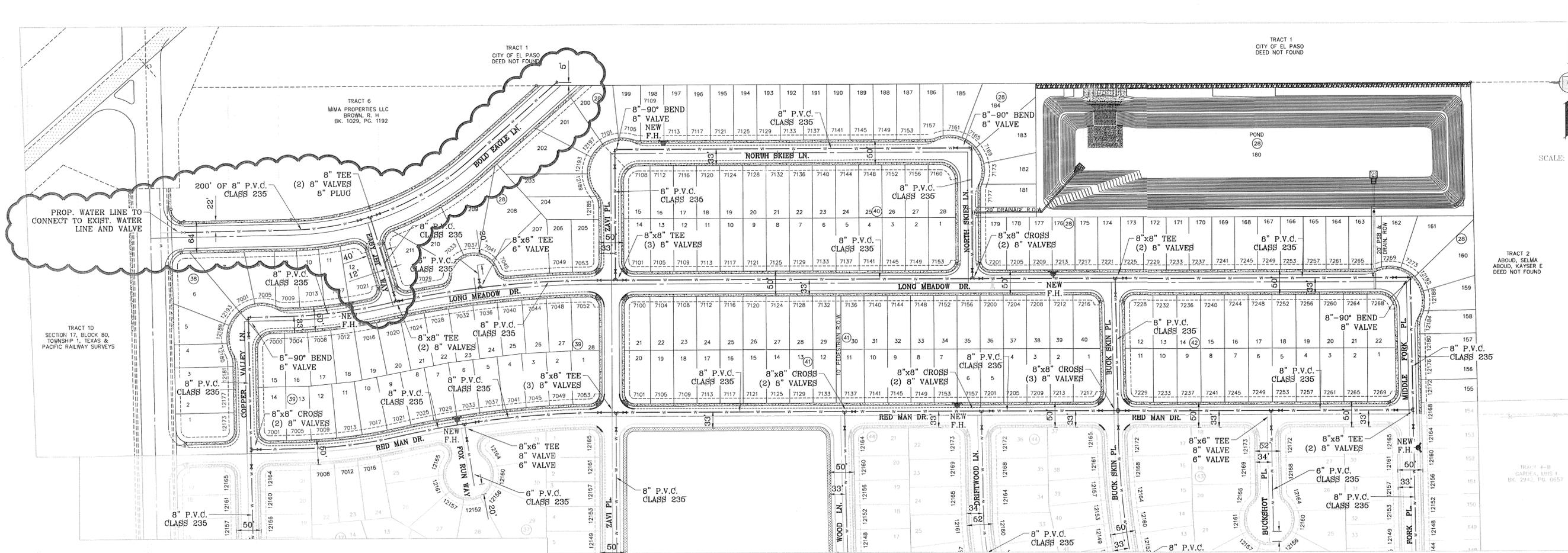
DATE: DEC. 2012  
 DESIGN BY: YC  
 INITIATED BY: RR  
 CHECKED BY: YC & FC  
 JOB NO.: 512-24



**CONDE INC.**  
 ENGINEERING / PLANNING  
 SURVEYING / GPS  
 6080 SURETY DR. STE 100  
 EL PASO, TEXAS 79905  
 PHONE: (915) 592-0283  
 FAX: (915) 592-0286



FILE S:\\_Subdivisions\MESQUITE HILLS 7"DWG\WATER DISTRIBUTION PLOTTED Thursday, May 01, 2014 4:56:32 PM



SCALE: 1" = 100'

**PROPOSED 8" P.V.C. CLASS 235**

STREET NAME	LENGTH
COPPER VALLEY LN.	995 FEET
LONG MEADOW DR.	2,323 FEET
MIDDLE FORK PL.	760 FEET
DUST STORM LN.	1,146 FEET
COPPER TOWN DR.	1,372 FEET
COPPER CANYON DR.	730 FEET
COPPER SKY CT.	690 FEET
COPPER TRAIL AVE.	695 FEET
PRAIRIE RIDGE ST.	1,086 FEET
SPRUCE WOOD CT.	718 FEET
EAGLE NEST CT.	722 FEET
ZAVI PL.	1,065 FEET
NORTH SKIES LN.	974 FEET
RED MAD DR.	2,323 FEET
CHERRY WOOD LN.	926 FEET
BUCK SKIN PL.	1,321 FEET
BOLD EAGLE LN.	840 FEET
EASY JET WAY	206 FEET

**PROPOSED 6" P.V.C. CLASS 235**

STREET NAME	LENGTH
LONG MEADOW DR. (EYEBROW)	45 FEET
TURTLE CREEK CT.	262 FEET
NORTH BREEZE PL.	233 FEET
EAGLE NEST CT. (EYEBROW)	50 FEET
BUCKSHOT PL.	239 FEET
DRIFTWOOD LN.	359 FEET
FOX RUN WAY	124 FEET

STREET NAME	PROFILE SHEET
COPPER VALLEY LN.	SHEET 71
LONG MEADOW DR.	SHEET 70
MIDDLE FORK PL.	SHEET 70-71
DUST STORM LN.	SHEET 71
COPPER TOWN DR.	SHEET 71-72
COPPER CANYON DR.	SHEET 72
COPPER SKY CT.	SHEET 72
COPPER TRAIL AVE.	SHEET 72
PRAIRIE RIDGE ST.	SHEET 71-72
TURTLE CREEK CT.	SHEET 72
NORTH BREEZE PL.	SHEET 72
SPRUCE WOOD CT.	SHEET 71
EAGLE NEST CT.	SHEET 71
ZAVI PL.	SHEET 71
NORTH SKIES LN.	SHEET 70
RED MAD DR.	SHEET 70
BUCKSHOT PL.	SHEET 71
DRIFTWOOD LN.	SHEET 71
CHERRY WOOD LN.	SHEET 71
FOX RUN WAY	SHEET 71
BUCK SKIN PL.	SHEET 71-72
BOLD EAGLE LN.	SHEET 70
EASY JET WAY	SHEET 70

BENCHMARK  
CITY MONUMENT AT THE CENTERLINE INTERSECTION OF COPPER CANYON DRIVE AND COPPER MINE LANE. ELEVATION 4007.42 .....CITY DATUM  
DATE REVISIONS  
04/19/13 2ND SET OF CITY COMMENTS R.R.  
12/01/13 REVISIONS AS PER CLIENT REQUEST R.R.

PROJECT NAME  
**MESQUITE HILLS UNIT SEVEN**  
BEGING PORTION OF TRACTS 5 AND 6, SECTION 16, BLOCK 80, TOWNSHIP 1, TEXAS AND PACIFIC RAILROAD, COUNTY SURVEYS, CITY OF EL PASO, EL PASO COUNTY, TEXAS CONTAINING: 108.78 ACRES

S C A L E  
HORIZ: 1" = 100'  
VERT: ---  
DATE: DEC. 2012  
DESIGN BY: YC  
INITIATED BY: RR  
CHECKED BY: YC & FC  
JOB NO.: 512-24



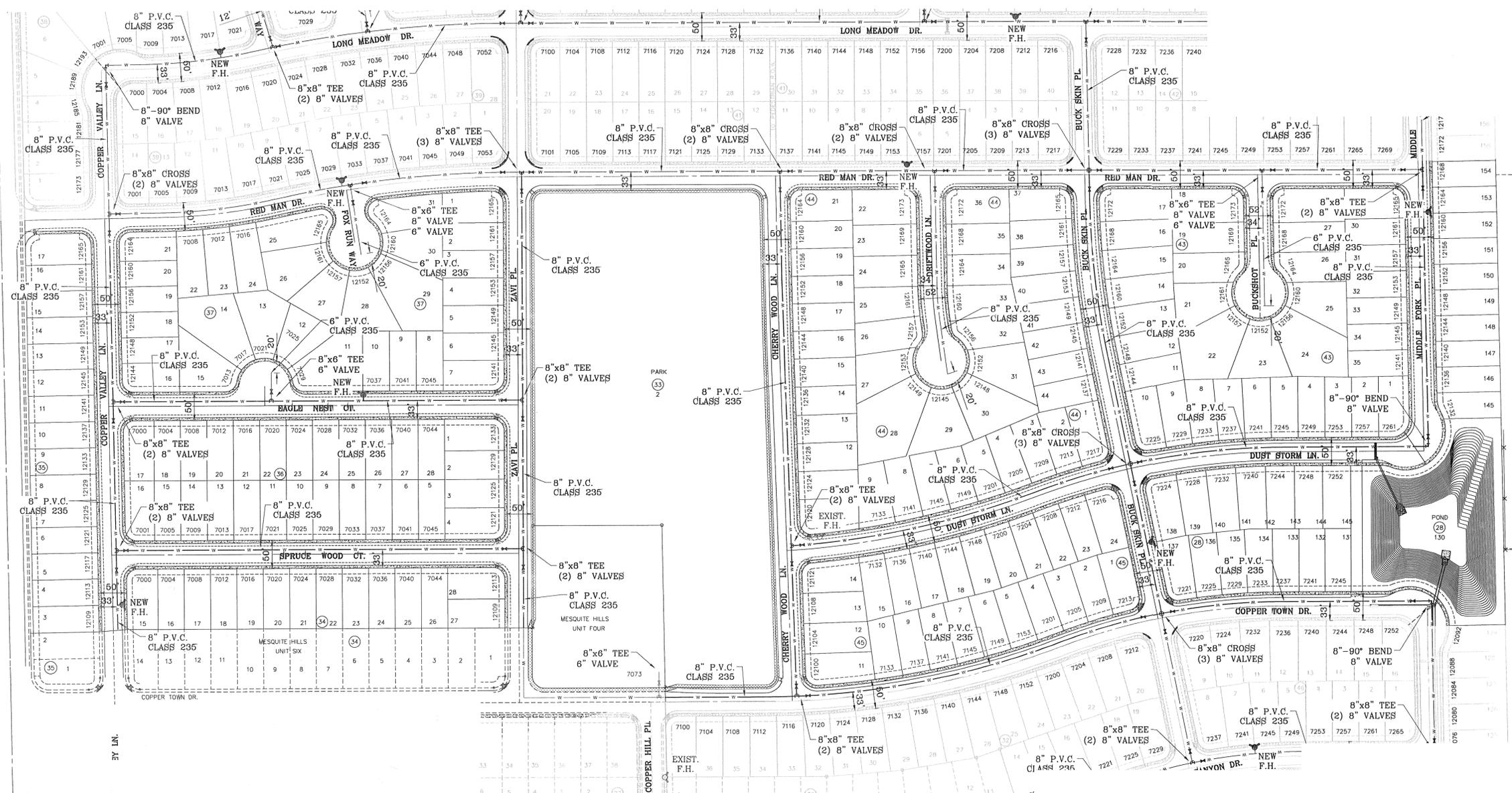
**CONDE INC.**  
ENGINEERING / PLANNING  
SURVEYING / GPS  
6080 SURVEY DR., STE 100  
EL PASO, TEXAS 79905  
PHONE: (915) 592-0263  
FAX: (915) 592-0286



SHEET TITLE

CITY DEVELOPMENT DEPARTMENT  
**REVIEWED**

**WATER DISTRIBUTION PLAN**



SCALE: 1" = 100'



TRACT 10 FROM 17, BLOCK 80, WNSHIP 1, TEXAS & P.C. RAILWAY SURVEYS

TRACT 10 FROM 17, BLOCK 80, WNSHIP 1, TEXAS & P.C. RAILWAY SURVEYS

BENCHMARK

CITY MONUMENT AT THE CENTERLINE INTERSECTION OF COPPER CANYON DRIVE AND COPPER MOUNTAIN ELEVATION 4007.42

BY: \_\_\_\_\_

REVISIONS

DATE: 04/19/13

2ND SET OF CITY COMMENTS

PROJECT NAME

**MESQUITE HILLS UNIT SEVEN**

BEING PORTION OF TRACTS 5 AND 6, SECTION 16, BLOCK 80, TOWNSHIP 1, TEXAS AND PACIFIC RAILROAD CO. SURVEYS, CITY OF EL PASO, EL PASO COUNTY, TEXAS CONTAINING: 108.78 ACRES

S C A L E

HORIZ: 1" = 100'

VERT: \_\_\_\_\_

DATE: DEC. 2012

DESIGN BY: YC

INITIATED BY: RR

CHECKED BY: YC & FC

JOB NO.: 612-94



**CONDE INC.**

ENGINEERING / PLANNING SURVEYING / GPS

6080 SURETY DR. STE. 100 EL PASO, TEXAS 79905

PHONE: (915) 692-0283

FAX: (915) 692-0286



SHEET TITLE

**CITY DEVELOPMENT DEPARTMENT**

**REVIEWED**

**WATER DISTRIBUTION PLAN**

PROPOSED 8" P.V.C. CLASS 235

STREET NAME	LENGTH
COPPER VALLEY LN.	995 FEET
LONG MEADOW DR.	2,323 FBFT
MIDDLE FORK PL.	760 FEET
DUST STORM LN.	1,146 FEET
COPPER TOWN DR.	1,372 FEET
COPPER CANYON DR.	730 FEET
COPPER SKY CT.	890 FEET
COPPER TRAIL AVE.	895 FEET
PRAIRIE RIDGE ST.	1,086 FEET
SPRUCE WOOD CT.	718 FEET
EAGLE NEST CT.	722 FEET
ZAVI PL.	1,065 FEET
NORTH SKIES LN.	974 FEET
RED MAD DR.	2,323 FBFT
CHERRY WOOD LN.	925 FEET
BUCK SKIN PL.	1,321 FEET
BOLD EAGLE LN.	840 FEET
EASY JET WAY	174 FEET

PROPOSED 6" P.V.C. CLASS 235

STREET NAME	LENGTH
LONG MEADOW DR. (EYEBROW)	45 FEET
TURTLE CREEK CT.	262 FBFT
NORTH BREEZE PL.	233 FBFT
EAGLE NEST CT. (EYEBROW)	50 FEET
BUCKSHOT PL.	239 FBFT
DRIFTWOOD LN.	359 FBFT
FOX RUN WAY	124 FEET

STREET NAME	PROFILE SHEET
COPPER VALLEY LN.	SHEET 71
LONG MEADOW DR.	SHEET 70
MIDDLE FORK PL.	SHEET 70-71
DUST STORM LN.	SHEET 71
COPPER TOWN DR.	SHEET 71-72
COPPER CANYON DR.	SHEET 72
COPPER SKY CT.	SHEET 72
COPPER TRAIL AVE.	SHEET 72
PRAIRIE RIDGE ST.	SHEET 71-72
TURTLE CREEK CT.	SHEET 72
NORTH BREEZE PL.	SHEET 72
SPRUCE WOOD CT.	SHEET 71
EAGLE NEST CT.	SHEET 71
ZAVI PL.	SHEET 71
NORTH SKIES LN.	SHEET 70
RED MAD DR.	SHEET 70
BUCKSHOT PL.	SHEET 71
DRIFTWOOD LN.	SHEET 71
CHERRY WOOD LN.	SHEET 71
FOX RUN WAY	SHEET 71
BUCK SKIN PL.	SHEET 71-72
BOLD EAGLE LN.	SHEET 70
EASY JET WAY	SHEET 70



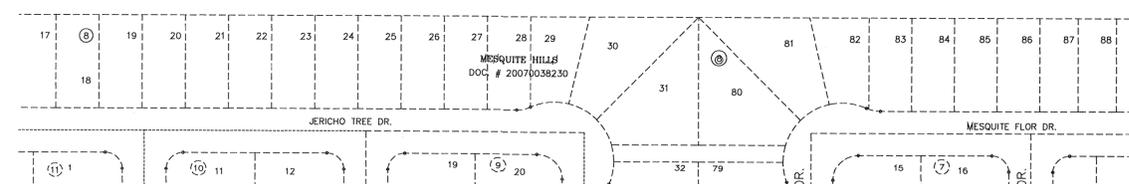
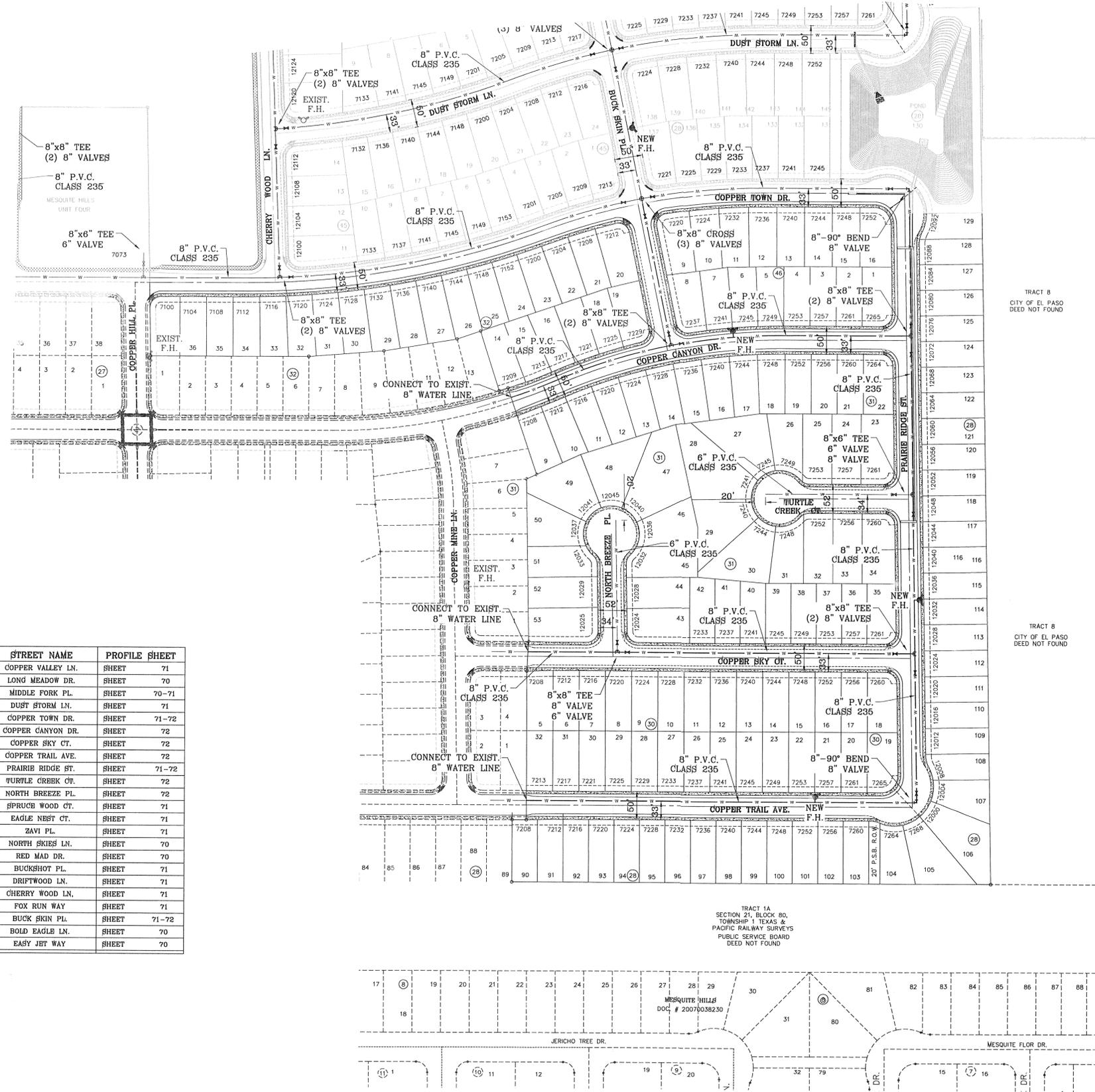
PROPOSED 8" P.V.C. CLASS 235

STREET NAME	LENGTH
COPPER VALLEY LN.	996 FEET
LONG MEADOW DR.	2,323 FEET
MIDDLE FORK PL.	750 FEET
DUST STORM LN.	1,146 FEET
COPPER TOWN DR.	1,372 FEET
COPPER CANYON DR.	730 FEET
COPPER SKY CT.	690 FEET
COPPER TRAIL AVE.	695 FEET
PRAIRIE RIDGE ST.	1,086 FEET
SPRUCE WOOD CT.	718 FEET
EAGLE NEST CT.	722 FEET
ZAVI PL.	1,065 FEET
NORTH SKIES LN.	974 FEET
RED MAD DR.	2,323 FEET
CHERRY WOOD LN.	925 FEET
BUCK SKIN PL.	1,321 FEET
BOLD EAGLE LN.	840 FEET
EASY JET WAY	174 FEET

PROPOSED 6" P.V.C. CLASS 235

STREET NAME	LENGTH
LONG MEADOW DR. (EYEBROW)	45 FEET
TURTLE CREEK CT.	262 FEET
NORTH BREEZE PL.	233 FEET
EAGLE NEST CT. (EYEBROW)	50 FEET
BUCKSHOT PL.	239 FEET
DRIFTWOOD LN.	359 FEET
FOX RUN WAY	124 FEET

STREET NAME	PROFILE SHEET
COPPER VALLEY LN.	SHEET 71
LONG MEADOW DR.	SHEET 70
MIDDLE FORK PL.	SHEET 70-71
DUST STORM LN.	SHEET 71
COPPER TOWN DR.	SHEET 71-72
COPPER CANYON DR.	SHEET 72
COPPER SKY CT.	SHEET 72
COPPER TRAIL AVE.	SHEET 72
PRAIRIE RIDGE ST.	SHEET 71-72
TURTLE CREEK CT.	SHEET 72
NORTH BREEZE PL.	SHEET 72
SPRUCE WOOD CT.	SHEET 71
EAGLE NEST CT.	SHEET 71
ZAVI PL.	SHEET 71
NORTH SKIES LN.	SHEET 70
RED MAD DR.	SHEET 70
BUCKSHOT PL.	SHEET 71
DRIFTWOOD LN.	SHEET 71
CHERRY WOOD LN.	SHEET 71
FOX RUN WAY	SHEET 71
BUCK SKIN PL.	SHEET 71-72
BOLD EAGLE LN.	SHEET 70
EASY JET WAY	SHEET 70



CITY DEVELOPMENT DEPARTMENT

REVIEWED

MESQUITE HILLS UNIT SEVEN

BENCHMARK	
CITY MONUMENT AT THE CENTERLINE INTERSECTION OF COPPER CANYON DRIVE AND COPPER MINE LANE. ELEVATION 4007.42 ..... CITY DATUM	
DATE	REVISIONS
04/19/13	2ND SET OF CITY COMMENTS
BY	R.R.

**PROJECT NAME**  
**MESQUITE HILLS UNIT SEVEN**  
 BEING PORTION OF TRACTS 5 AND 6, SECTION 16, BLOCK 80, TOWNSHIP 1, TEXAS AND PACIFIC RAILROAD CO. SURVEYS, CITY OF EL PASO, EL PASO COUNTY, TEXAS CONTAINING: 108.78 ACRES

**SCALE**  
 HORIZ: 1" = 100'  
 VERT: ---

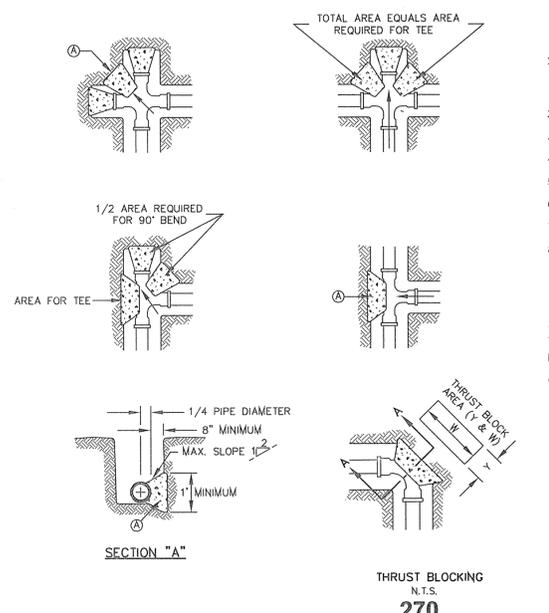
**DATE:** DEC. 2012  
**DESIGN BY:** YC  
**INITIATED BY:** RR  
**CHECKED BY:** YC & FC  
**JOB NO.:** 512-24



**CONDE INC.**  
 ENGINEERING / PLANNING  
 SURVEYING / GPS  
 6080 SURETY DR. SITE 100  
 EL PASO, TEXAS 79905  
 PHONE: (915) 592-0253  
 FAX: (915) 592-0286



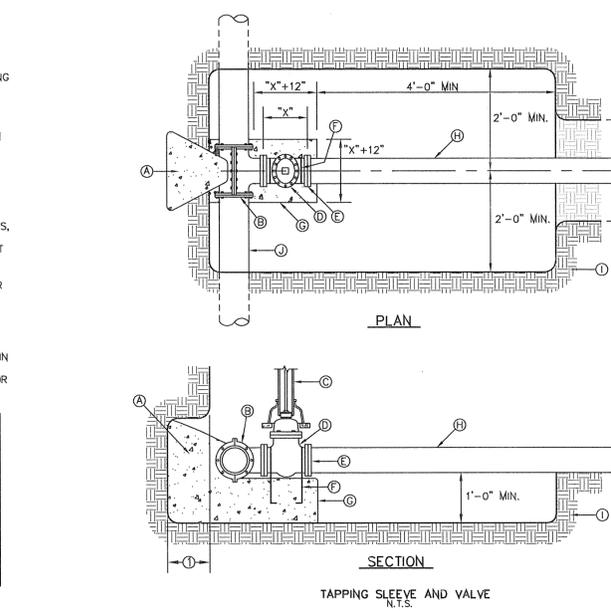
SHEET TITLE  
**WATER DISTRIBUTION PLAN**  
 SHT 72 OF 80



**GENERAL NOTES:**  
 1. TABLE IS BASED ON 2000#/SQ. FT. SOIL. IF CONDITIONS ARE FOUND TO INDICATE SOIL BEARING IS LESS, THE AREAS SHALL BE INCREASED ACCORDINGLY.  
 2. AREAS FOR PIPE LARGER THAN 18" SHALL BE CALCULATED.  
 3. CONCRETE SHALL HAVE A MINIMUM COMPRESSION STRENGTH OF 2500 PSI.  
 4. THRUST BLOCK IS TO EXTEND TO UNDISTURBED SOIL.  
 5. SIZE MAY BE DECREASED FOR LESSER DEGREE BENDS AS DETERMINED BY ENGINEER.  
 6. KEEP CONCRETE CLEAR OF M.J. OR BELL AND SPIGOT JOINTS.  
 7. BLOCK IN A SIMILAR MANNER AT TEES, HYDRANTS, PLUG OR OTHER LOCATIONS AS REQUIRED.  
 8. WHEN NECESSARY ADDITIONAL THRUST RESTRAINT METHODS MAY BE USED, SUCH AS MECHANICAL JOINT RESTRAINTS, TIE-RODS (INSTALLED PER MANUFACTURERS' RECOMMENDATIONS) OR OTHER APPROVED METHODS.

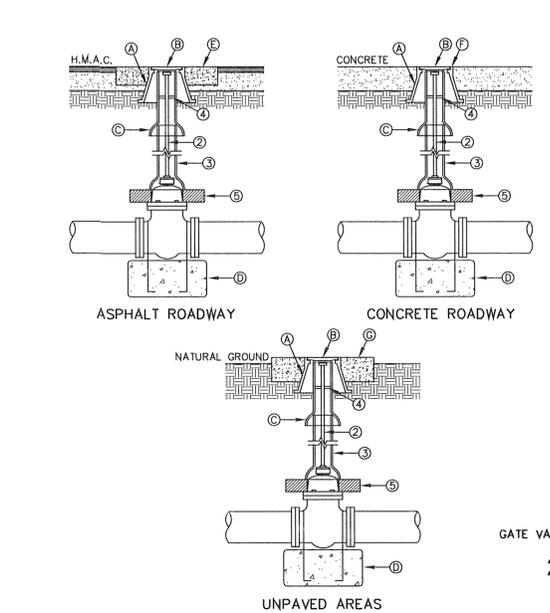
**CONSTRUCTION KEY NOTES:**  
 A. LENGTH "Y" & "W" AS REQUIRED TO OBTAIN BEARING AREA AGAINST UNDISTURBED SOIL.  
 B. ADDITIONAL EXCAVATION IF NECESSARY TO OBTAIN REQUIRED BEARING AREA.  
 C. MINIMUM THRUST BLOCK AREA REQUIREMENTS FOR (Y & W) AS FOLLOWS:

PIPE SIZE	WATER PIPE	
	TEE, DEAD END	45° AND 90° BEND 22 1/2° BENDS
4" & LESS	3 SQ. FEET	3 SQ. FEET
6"	4 SQ. FEET	3 SQ. FEET
8"	6 SQ. FEET	3 SQ. FEET
10"	9 SQ. FEET	5 SQ. FEET
12"	13 SQ. FEET	7 SQ. FEET
16"	23 SQ. FEET	12 SQ. FEET
18"	29 SQ. FEET	15 SQ. FEET



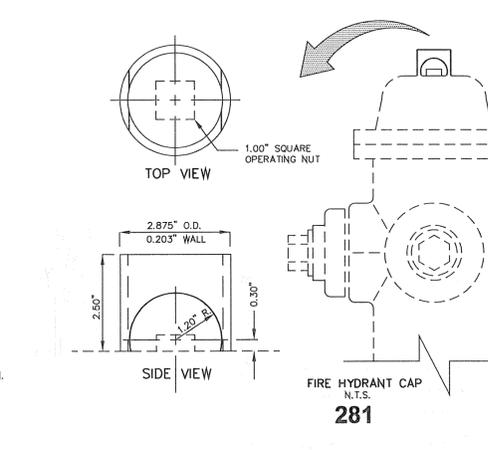
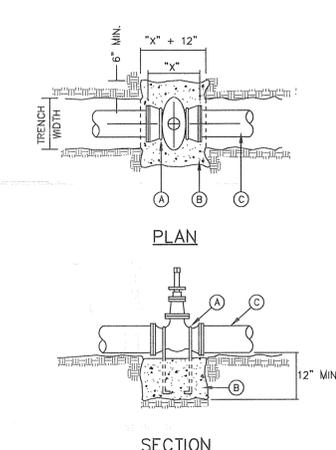
**GENERAL NOTES:**  
 1. THRUST BLOCKING SHALL EXTEND TO UNDISTURBED EARTH.  
 2. TAPPING SLEEVE SHALL BE 18" MINIMUM FROM ANY BELL, COUPLING, VALVE OR FITTING LOCATED ALONG EXISTING WATER LINE TO BE TAPPED.  
 3. REPLACE EXCAVATED MATERIAL WITH CEMENT STABILIZED BACKFILL PRIOR TO PAVING.  
 4. JOINTS AND BOLTS SHALL BE CLEAR OF CONCRETE.  
 5. INSTALL PERMANENT THRUST BLOCKING UNDER VALVE BEFORE TAP IS MADE. JOINTS AND BOLTS TO BE CLEAR OF CONCRETE.

**CONSTRUCTION KEY NOTES:**  
 A. CONCRETE THRUST BLOCKING, PER DETAIL 270.  
 B. TAPPING SLEEVE.  
 C. RISER INSTALLATION, PER DETAIL 260.  
 D. TAPPING VALVE.  
 E. VALVE ENDS FOR TYPE OF PIPE INSTALLED.  
 F. 2-#5 REBAR HAIRPINS, PAINT UNEMBEDDED PORTION OF BARS WITH 2-COATS OF COAL TAR EPOXY, THEN COVER WITH 2" MINIMUM OF CEMENT MORTAR.  
 G. CONCRETE VALVE SUPPORT, PER DETAIL 271.  
 H. NEW WATER LINE TO BE INSTALLED.  
 I. UNDISTURBED EARTH.  
 J. EXISTING WATER MAIN TO BE TAPPED.



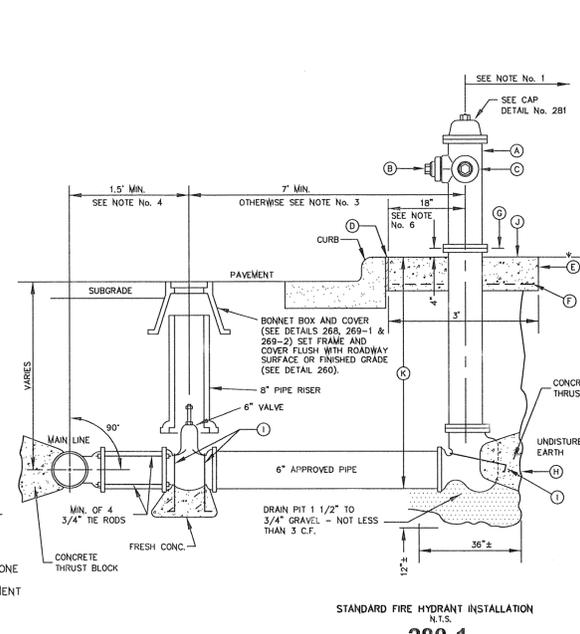
**GENERAL NOTES:**  
 1. VALVE TYPE AND VALVE ENDS SHALL BE AS SHOWN ON THE PLANS.  
 2. ALL BURIED VALVES 5' AND DEEPER SHALL BE PROVIDED WITH SOLID STEEL EXTENSION STEM OPERATOR WITH 2" SQUARE AWMA NUT WITHIN 36" OF VALVE BOX COVER. NUT IS TO INDICATE DIRECTION OF ROTATION TO OPEN VALVE.  
 3. 8" DIA. MINIMUM VITRIFIED CLAY OR SDR 35 P.V.C. PIPE, PIPE SHALL NOT REST ON VALVE BODY.  
 4. 1/2" THICK STEEL TRASH RING VALVE BOX INSIDE DIAMETER MINUS 1/2".  
 5. MINIMUM 2 1/2" CONCRETE OR BRICK ALL AROUND.  
 6. CLEAN BONNET BOX OF ALL DEBRIS AND SOIL.  
 7. COAT BURIED PIPE AND BONNET BOX PER SPECIFICATIONS. VALVE SHALL BE WRAPPED IN POLYETHYLENE IN ACCORDANCE WITH SPECIFICATIONS.

**CONSTRUCTION KEY NOTES:**  
 A. BONNET BOX (SEE DETAIL 268).  
 B. BONNET BOX COVER (SEE DETAILS 269-1 & 269-2).  
 C. FINAL EXTENSION TO BONNET BOX SHALL BE WITH BELL AND SPIGOT ENDS (CLAY OR SDR 35 P.V.C. SPOOL).  
 D. CONCRETE VALVE ANCHOR (SEE DETAIL 271).  
 E. CONCRETE COLLAR (SEE DET 184-1) FLUSH WITH TOP OF H.M.A.C.  
 F. BONNET BOX FLUSH WITH TOP OF CONCRETE, CONCRETE COLLAR NOT NEEDED.  
 G. CONCRETE APRON (SEE DETAIL 184-2) FLUSH WITH BONNET BOX AND 2" ABOVE NATURAL GROUND.

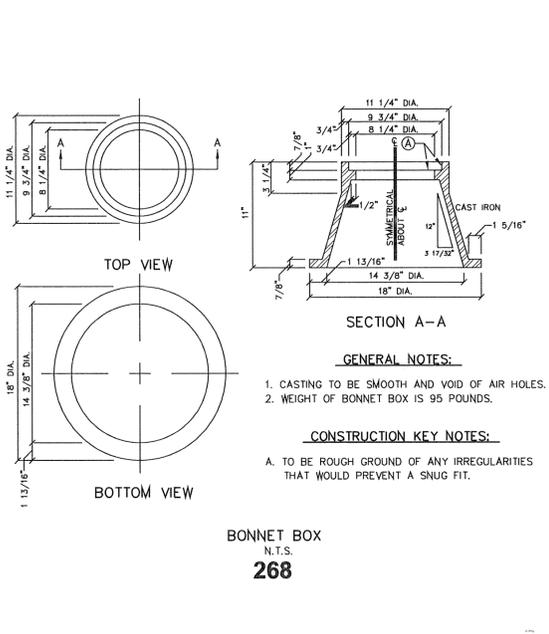


1. STEEL CAPS TO BE MACHINED FROM STEEL PIPE: NOMINAL SIZE = 2 1/2" DIA. OUTSIDE DIA. = 2.875" WALL THICKNESS = 0.203 LBS/FT. = 5.79  
 2. CAPS ARE TO BE TACK WELDED OR BRAZED ON FIRE HYDRANT BONNET OR WEATHER CAP.  
 3. THE CAPS OVER THE OPERATING NUT WILL PREVENT ACCESS TO THE UNAUTHORIZED USE OF HYDRANT WATER.

**GENERAL NOTES:**  
 1. DETAIL DRAWING TERMINOLOGY IS IN ACCORDANCE WITH ASTM D-2221.  
 2. UNLESS OTHERWISE PERMITTED BY THE ENGINEER, ALL MATERIAL IN THE EMBEDMENT ZONE SHALL BE HOMOGENOUS.

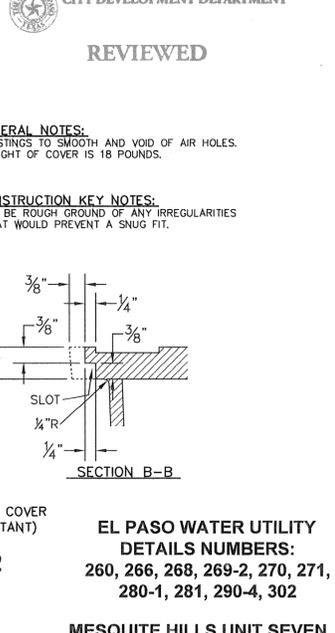
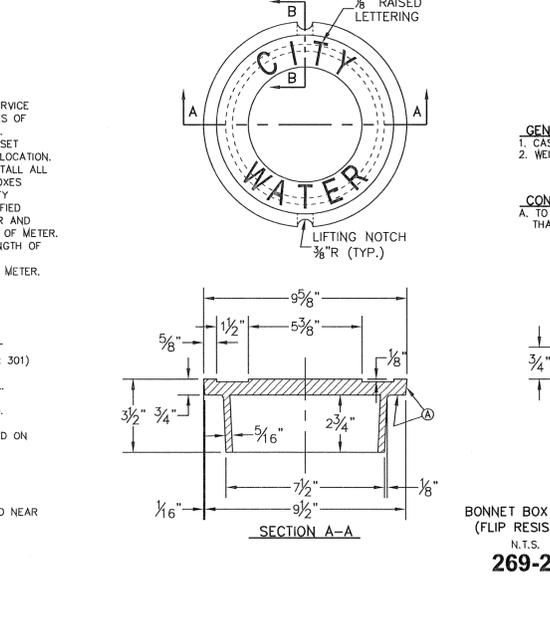
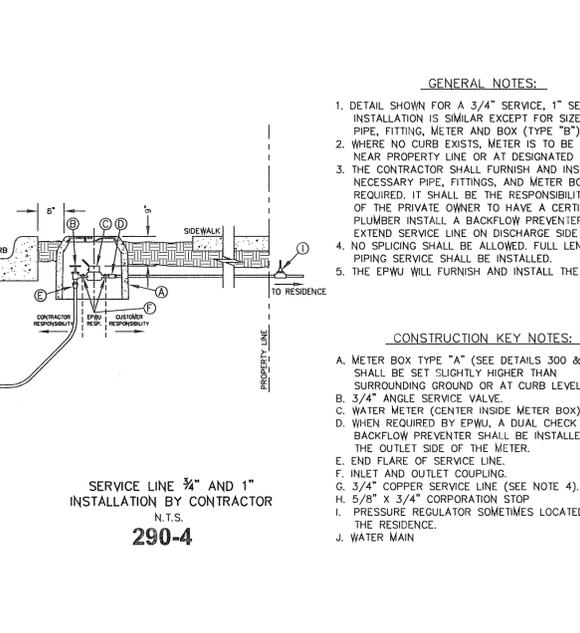
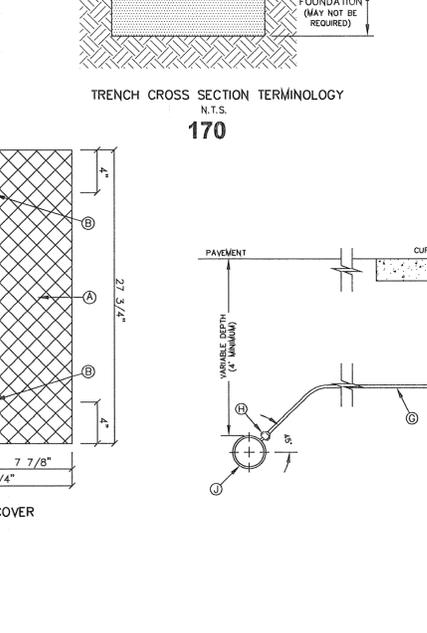
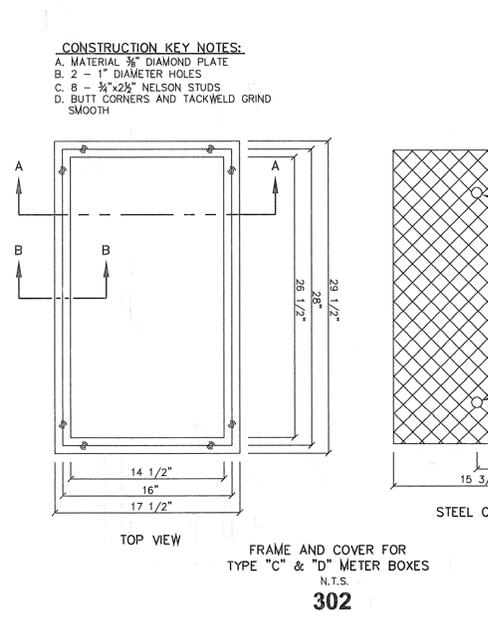
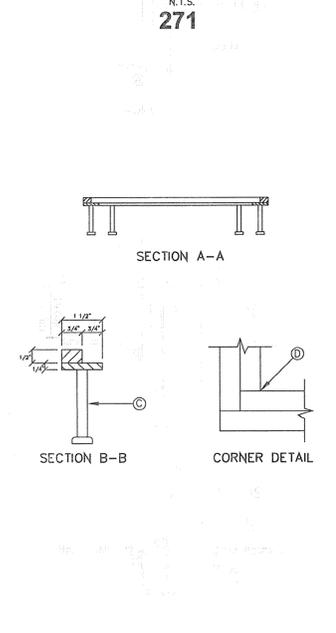
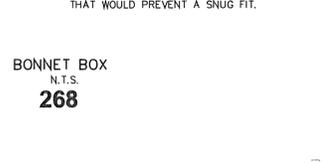
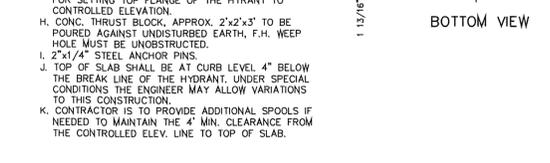
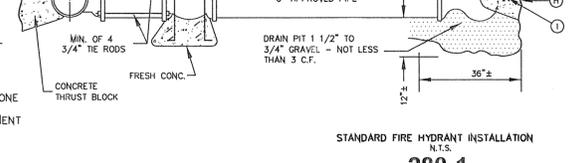
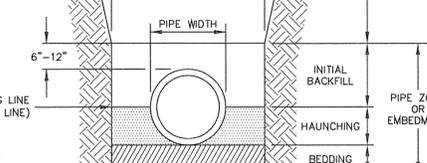
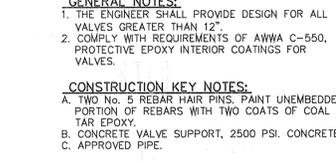


**GENERAL NOTES:**  
 1. NO OBSTRUCTIONS WILL BE PERMITTED WITHIN 5 FT. IN ALL DIRECTIONS OF FIRE HYDRANT (PER EL PASO MUNICIPAL CODE, TITLE 12). FIRE HYDRANT SHALL NOT BE PLACED IN WHEEL CHAIR RAMP OR DRIVEWAY.  
 2. FIRE HYDRANT SHALL BE LOCATED AT THE BEGINNING OF CURB RETURN OR AT THE PROPERTY LINE COMMON TO ADJOINING LOTS, UNLESS OTHERWISE SHOWN ON PLANS. REFER TO DETAIL No. 282 FOR SPECIAL CASES.  
 3. WHERE DISTANCE IS LESS THAN 7', HYDRANT SHALL BE INSTALLED IN ACCORDANCE WITH DETAIL No. 282.  
 4. VALVE MAY BE CONNECTED TO TEE AT MAIN LINE. USE FLANGED MECHANICAL JOINT ENDS. WHERE SPOOL IS REQUIRED BETWEEN TEE AND VALVE, USE FLANGED MECHANICAL ENDS WITH 3/4" DIAMETER TIE RODS.  
 5. COMPLY WITH REQUIREMENTS OF AWMA C-502, DRY BARREL FIRE HYDRANTS AND AWMA C-550, PROTECTIVE EPOXY INTERIOR COATINGS FOR VALVES AND HYDRANTS.  
 6. WHEN INSTALLATION IS WITHIN 1 FOOT RIGHT OF WAY, HYDRANT SHALL NOT BE PLACED IN SIDEWALK AREA OR ANY CLOSER THAN 5' FROM BACK OF CURB.  
**CONSTRUCTION KEY NOTES:**  
 A. FIRE HYDRANT PER SPECS.  
 B. PLUMPER NOZZLE 4 1/2" TO BE FACING THE TRAVELED WAY, UNLESS OTHERWISE NOTED IN THE PLANS.  
 C. HOSE NOZZLE 2 1/2".  
 D. 1/2" PREMOLDED EXPANSION JOINT WITH 1" TOP FILLER.  
 E. 3"x3"x8" CONC. SQ. PAD, TO BE CONSTRUCTED AROUND FIRE HYDRANT'S CENTER LINE WHEN NOT LOCATED WITHIN SIDEWALK OR CONC. AREA.  
 F. #10 6/8 W/F.  
 G. CONTROLLED ELEVATION LINE, LEVEL IN ALL DIRECTIONS. CONTRACTOR SHALL BE RESPONSIBLE FOR SETTING TOP FLANGE OF THE HYDRANT TO CONTROLLED ELEVATION.  
 H. CONC. THRUST BLOCK, APPROX. 2'x2'x3' TO BE POURED AGAINST UNDISTURBED EARTH, F.H. KEEP HOLE MUST BE UNOBSTRUCTED.  
 I. 2"x1/4" STEEL ANCHOR PINS.  
 J. TOP OF SLAB SHALL BE AT CURB LEVEL 4" BELOW THE BREAK LINE OF THE HYDRANT. UNDER SPECIAL CONDITIONS THE ENGINEER MAY ALLOW VARIATIONS TO THIS CONSTRUCTION.  
 K. CONTRACTOR IS TO PROVIDE ADDITIONAL SPOOLS IF NEEDED TO MAINTAIN THE 4' MIN. CLEARANCE FROM THE CONTROLLED ELEV. LINE TO TOP OF SLAB.



**GENERAL NOTES:**  
 1. CASTING TO BE SMOOTH AND VOID OF AIR HOLES.  
 2. WEIGHT OF BONNET BOX IS 95 POUNDS.

**CONSTRUCTION KEY NOTES:**  
 A. TO BE ROUGH GROUND OF ANY IRREGULARITIES THAT WOULD PREVENT A SNUG FIT.



FILE S:\Subdivisions\MESQUITE HILLS 73.DWG\NOTES AND DETAILS.PLOTTED THURSDAY, MAY 01, 2014 4:56:53 PM

CITY, MOUNTAIN AT THE CENTERLINE INTERSECTION OF COPPER CANYON DRIVE AND COPPER MINE LANE. ELEVATION 4007.42 .....CITY DATUM  
 BY REVISIONS  
 DATE 04/19/13  
 2ND SET OF CITY COMMENTS  
 R.R.

**MESQUITE HILLS UNIT SEVEN**  
 BEING PORTION OF TRACTS 5 AND 6, C.F. HULL AND CO., CO. TOWNSHIP OF EL PASO, COUNTY OF EL PASO, TEXAS, SURVEYS. CITY OF EL PASO, TEXAS, CONTAINING: 108.78 ACRES

**ENGINEER'S SEAL:**  
 HORIZ: ---  
 VERT: ---  
 DATE: DEC. 2012  
 DESIGN BY: YC  
 INITIATED BY: RR  
 CHECKED BY: YC & FC  
 JOB NO.: 512-24

**CITY DEVELOPMENT DEPARTMENT**  
**REVIEWED**

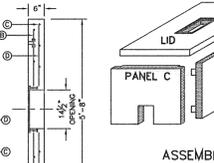
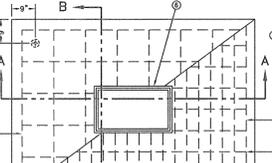
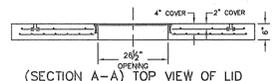
**CONDE INC.**  
 ENGINEERING / PLANNING  
 SURVEYING / GPS  
 6080 SURETY DR. STE 100  
 EL PASO, TEXAS 79905  
 PHONE: (915) 592-0283  
 FAX: (915) 592-0286

**SHEET TITLE**

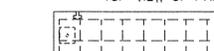
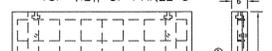
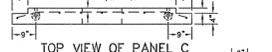
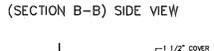
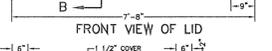
**WATER DETAILS**

**EL PASO WATER UTILITY**  
**DETAILS NUMBERS:**  
 260, 266, 268, 269-2, 270, 271,  
 280-1, 281, 290-4, 302

**SHT 73 OF 80**

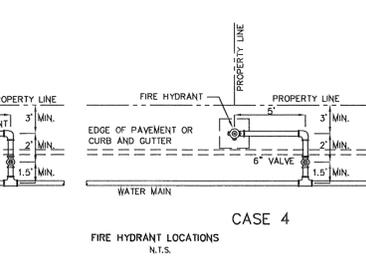
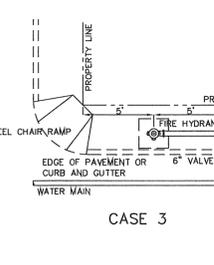
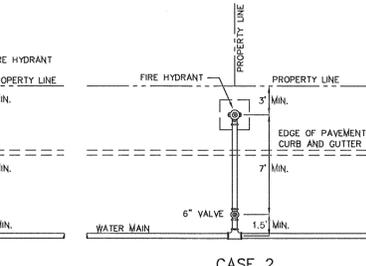
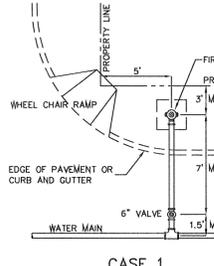


ASSEMBLY

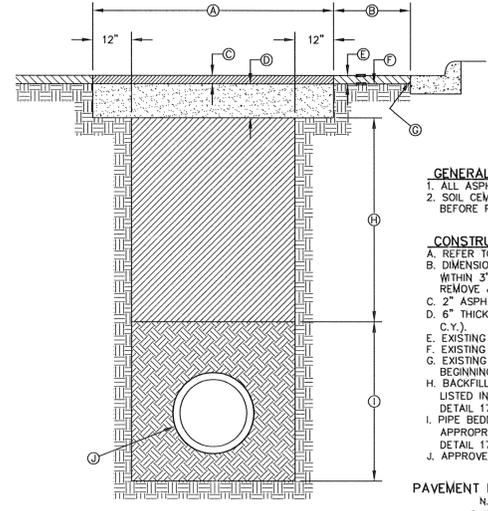


**GENERAL NOTES:**  
1. WATER CEMENT RATIO 0.5 OR LESS BY WEIGHT OR NOT MORE THAN 5.5 GALLONS PER SACK.  
2. REINFORCING SHALL COMPLY WITH ASTM A615 GRADE 60 STEEL F<sub>y</sub>=60000 PSI.  
3. BAR BENDING AND PLACEMENT TO COMPLY WITH LATEST ACI STANDARDS.  
4. LIFTERS FOR HANDLING SHALL BE INSTALLED PER MANUFACTURER'S REQUIREMENTS AND RATED TO HANDLE THE WEIGHT.  
5. METER BOX SHALL BE MODULAR; CONCRETE TO HAVE A MINIMUM 28 DAYS COMPRESSIVE STRENGTH OF 4000 PSI.

**CONSTRUCTION KEY NOTES:**  
A. No. 4 REBAR AT 8" ON CENTER, BOTHWAYS.  
B. No. 4 REBAR AT 12" ON CENTER, BOTHWAYS (TOP LAYER).  
C. No. 4 REBAR AT 8" ON CENTER, LONG SPAN (BOTTOM LAYER).  
D. No. 5 REBAR AT 4 1/2" ON CENTER, SHORT SPAN (BOTTOM LAYER).  
E. METER BOX FRAME (SEE DETAIL 302), INTEGRALLY CAST & CENTERED ON LID. SET FRAME SO COVER (SEE DETAIL 302) IS FLUSH WITH TOP SURFACE OF LID.



**GENERAL NOTES:**  
1. FOR CASE 1 FIRE HYDRANT SHALL BE LOCATED AT A DISTANCE OF 5 FT. MINIMUM FROM THE PROPERTY LINE OR AT THE BEGINNING OF CURB RETURN.  
2. FOR CASE 2 FIRE HYDRANT SHALL BE LOCATED AT THE PROPERTY LINE COMMON TO ADJOINING LOTS.  
3. FOR CASE 3 AND 4 WHERE THE DISTANCE BETWEEN THE VALVE AND THE HYDRANT IS LESS THAN 7 FT. PLACE HYDRANT AS SHOWN.  
4. FOR INSTALLATION OF FIRE HYDRANT SEE DETAIL 280-1 OR 280-2.  
5. A MINIMUM CLEARANCE OF 3 FT. WILL BE PROVIDED BETWEEN A FIRE HYDRANT AND A PERMANENT OBSTRUCTION (UTILITY POLE, LIGHT STANDARD, TRAFFIC SIGNAL, WHEEL CHAIR RAMP, FENCE PROTECTIVE POSTS, ETC.).  
6. WHEN INSTALLATION IS WITHIN 40 FT. RIGHT OF WAY, HYDRANT SHALL NOT BE PLACED IN SIDEWALK AREA OR ANY CLOSER THAN 5' FROM BACK OF CURB.

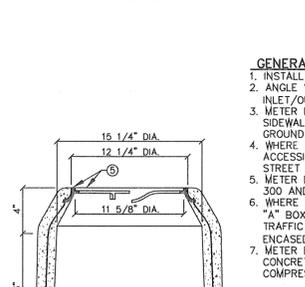
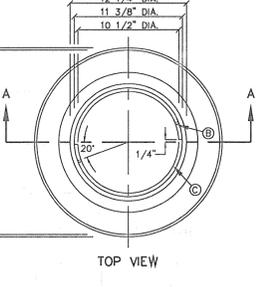


**GENERAL NOTES:**  
1. ALL ASPHALT CUTS MUST BE SAW CUT.  
2. SOIL CEMENT SLURRY SHALL BE ALLOWED TO CURE BEFORE PAVING OR OPENING TO ALL TRAFFIC.

**CONSTRUCTION KEY NOTES:**  
A. REFER TO SPECS FOR LIMIT OF PAVING WIDTH.  
B. DIMENSION VARIES, WHERE GUTTER FACE, ETC. IS WITHIN 3' OF SAW CUT EDGE, CONTRACTOR SHALL REMOVE & REPLACE EXISTING HM&C IN THIS AREA.  
C. 2" ASPHALT MIN.  
D. 6" THICK SOIL CEMENT BACKFILL (2 SACK PER C.Y.).  
E. EXISTING HM&C - THICKNESS MAY VARY.  
F. EXISTING BASE COURSE - THICKNESS MAY VARY.  
G. EXISTING GUTTER FACE, EDGE OF PAVEMENT OR BEGINNING OF SHOULDER.  
H. BACKFILL DEPTH VARIES, REFER TO REQUIREMENTS LISTED IN EMBEDMENT DETAILS (DETAIL 171 THRU DETAIL 173).  
I. PIPE BEDDING AS SPECIFIED, REFER TO APPROPRIATE EMBEDMENT DETAIL (DETAIL 171 THRU DETAIL 173).  
J. APPROVED PIPE.

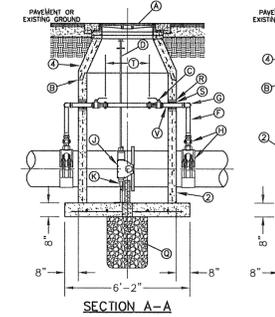
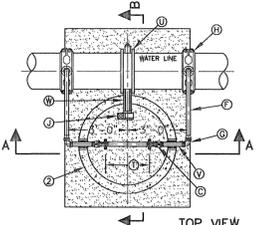
PAVEMENT REPLACEMENT N.T.S.  
179

METER BOX TYPE "E" FOR 3" AND LARGER SERVICE INSTALLATION N.T.S.  
282



**GENERAL NOTES:**  
1. INSTALL TO GRADE MATCHING TOP OF CURB.  
2. ANGLE VALVE SHALL BE IN LINE WITH THE INLET/OUTLET PORTS OF THE METER BOX.  
3. METER BOXES SHALL NOT BE INSTALLED UNDER SIDEWALKS, DRIVEWAYS, OR PROPOSED ABOVE GROUND STRUCTURES.  
4. WHERE NO CURBING EXISTS, INSTALL BOXES IN ACCESSIBLE LOCATIONS BEYOND LIMITS OF STREET SURFACING, WALKS AND DRIVEWAYS.  
5. METER BOX RING AND COVER PER EPWU DETAILS 300 AND 301.  
6. WHERE IT IS NECESSARY TO INSTALL A TYPE "A" BOX FOR 3/4" METER UNDER ROADWAYS OF TRAFFIC BEARING SURFACES, BOX SHALL BE ENCASED IN 12" CONCRETE, 3000 PSI, MINIMUM.  
7. METER BOX SHALL BE SINGLE UNIT CONSTRUCTION; CONCRETE TO HAVE A MINIMUM 28 DAYS COMPRESSIVE STRENGTH OF 4000 PSI.

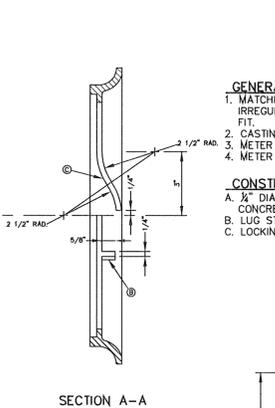
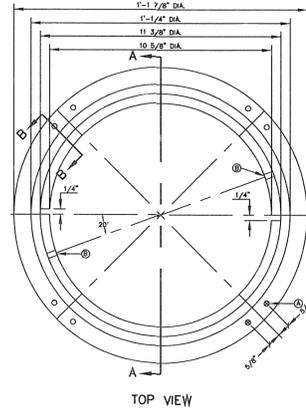
**CONSTRUCTION KEY NOTES:**  
A. 3/16" x 9 GAUGE BLACK ANNEAL WIRE  
B. LUG-STOP C. CAST IRON RING



BUTTERFLY VALVE IN MANHOLE INSTALLATION FOR 16" AND 20" WATER LINES N.T.S.  
261-2

**GENERAL NOTES:**  
1. INSTALLATION APPLICABLE TO P.V.C. & DUCTILE IRON WATER MAINS ONLY. INSTALLATION FOR OTHER PIPE MATERIALS REQUIRE E.P.W.U. APPROVAL.  
2. PRE-CAST MANHOLE SECTIONS SHALL BE OF REINFORCED CONCRETE CONFORMING TO ASTM C-478 AND SHALL MEET HS-20 LOADING. PROVIDE REINFORCEMENT WITHIN 3" OF OPENINGS OR KNOCKOUTS. OPENINGS (UP TO 8") MADE IN FIELD SHALL BE CORE DRILLED.  
3. MANUFACTURER TO PROVIDE LIFTERS OF ADEQUATE SIZE AS NEEDED.  
4. ECCENTRIC CONE SECTION REINFORCEMENT IN ACCORDANCE WITH ASTM C-478.

**CONSTRUCTION KEY NOTES:**  
A. MANHOLE RING AND COVER (SEE DETAILS 377 & 378), SET FRAME AND COVER FLUSH WITH ROADWAY SURFACE OR FINISHED GRADE (SEE DETAIL 185).  
B. ALL JOINTS TO BE TONGUE, GROOVE AND SEALED WITH RAM-NEK OR APPROVED EQUAL.  
C. 2" BALL VALVE (NORMALLY CLOSED).  
D. 1 1/2" DIAMETER SOLID STEEL EXTENSION STEM WITH SQUARE SOCKET ON BOTTOM TO FIT 2" SQUARE VALVE NUT AND 2" SQUARE OPERATOR NUT ON TOP.  
E. ADJUSTABLE EXTENSION STEM GUIDE (AS PER DETAIL 261-3) @ 6" MAX. INTERVALS.  
F. 2" COPPER PIPE (TYPE-K).  
G. THREADED END TO FLARED END 90° ELBOW (TYP.).  
H. 20"x2" OR 16"x2" SADDLE TAP WITH 2" CORPORATION STOP.  
I. BUTTERFLY VALVE OPERATOR.  
J. ADJUSTABLE SUPPORT OR APPROVED EQUAL.  
K. 6" DIAMETER BRAIN HOLE FILLED WITH GRAVEL.  
L. #6 @ 12" O.C.E.W.  
M. CONCRETE SUPPORT.  
N. NOTCH MANHOLE SECTION FOR VALVE OPERATOR. FILL WITH BRICK AND MORTAR AFTER VALVE INSTALLATION.  
O. 24" DIAMETER BY 2'-6" DEEP GRAVEL SUMP.  
P. CEMENT GROUT.  
Q. 1" PREMOULDED ASPHALT EXPANSION JOINT.  
R. INSTALL A 2" DIA. BRASS SPOOL PIECE WITH FLANGED ENDS. ONE SPOOL PIECE TO BE PROVIDED FOR EACH BUTTERFLY VALVE LOCATION. PROVIDE A 1" THREADED OUTLET WITH PLUG ON SPOOL PIECE. ALL SPOOL PIECES TO BE PROVIDED WITH FULL FACE GASKETS.  
S. BUTTERFLY VALVE.  
T. 2" BRASS NIPPLE PIECE (TYP.).  
U. VALVE OPERATOR EXTENSION - 12" LONG.  
V. FLARED END TO FLARED END 90° ELBOW (TYP.).

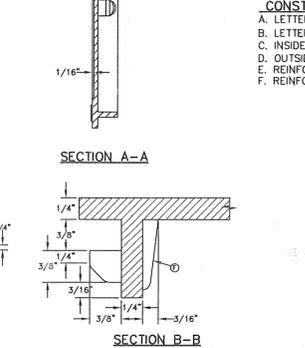
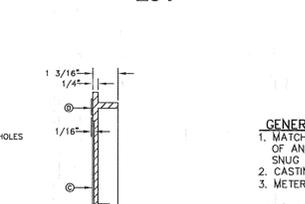
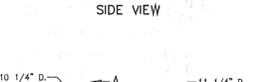


METER BOX RING FOR TYPE "A" & "B" METER BOXES N.T.S.  
300

**GENERAL NOTES:**  
1. MATCHING SURFACES TO BE FINISHED OF ANY IRREGULARITIES THAT WOULD PREVENT A SNUG FIT.  
2. CASTING TO BE SMOOTH AND VOID OF AIR HOLES.  
3. METER BOX RING WEIGHT = 7 LBS.  
4. METER BOX RING MADE OF CAST IRON.

**CONSTRUCTION KEY NOTES:**  
A. 1/2" DIAMETER HOLES FOR ANCHORING RING TO CONCRETE METER BOX.  
B. LUG STOP.  
C. LOCKING LUG SLIDE.

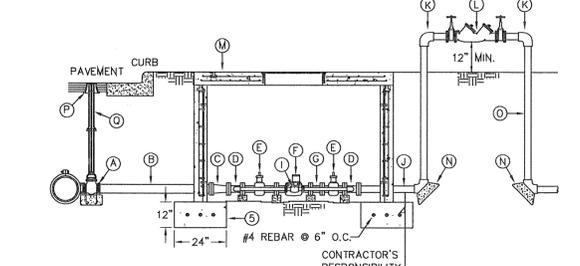
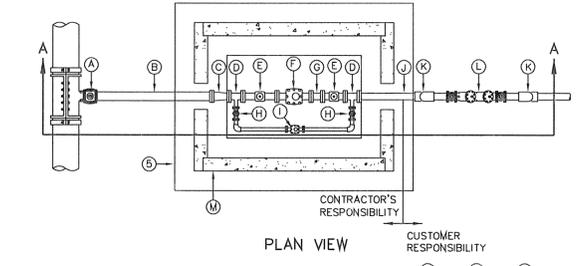
METER BOX TYPE "A" FOR 3/4" SERVICE INSTALLATION N.T.S.  
291



METER BOX COVER FOR TYPE "A" & "B" METER BOXES N.T.S.  
301

**GENERAL NOTES:**  
1. MATCHING SURFACES TO BE ROUGH GROUND OF ANY IRREGULARITIES THAT WOULD PREVENT A SNUG FIT.  
2. CASTING TO BE SMOOTH AND VOID OF AIR HOLES.  
3. METER BOX COVER HEIGHT = 1 1/4 INCHES.

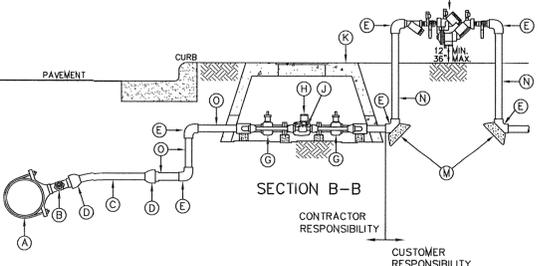
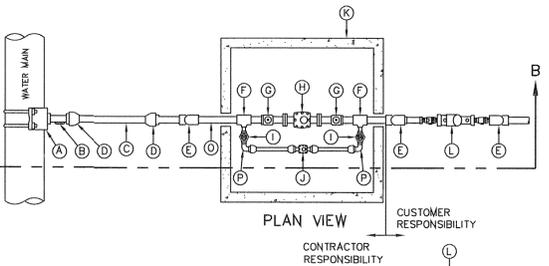
**CONSTRUCTION KEY NOTES:**  
A. LETTERS TO BE 1" HIGH, 3/4" WIDE, 1/8" THICK  
B. LETTERS TO BE 3/4" HIGH, 3/8" WIDE, 1/8" THICK  
C. INSIDE LETTERS & RIBS 1/8" TALL  
D. OUTSIDE LETTERS 1/4" TALL  
E. REINFORCE BACK OF LUG  
F. REINFORCEMENT



TYPICAL 3" & LARGER SERVICE LINE INSTALLATION BY CONTRACTOR N.T.S.  
261-2

**GENERAL NOTES:**  
1. DETAIL SHOWN FOR 3" SERVICE; INSTALLATION SIMILAR FOR LARGER SERVICES EXCEPT FOR SIZE OF PIPE, FITTINGS AND METER.  
2. WHERE NO CURB EXISTS, METER IS TO BE SET NEAR PROPERTY LINE OR AT DESIGNATED LOCATION.  
3. THE CONTRACTOR SHALL FURNISH AND INSTALL ALL NECESSARY PIPE, FITTINGS, AND METER BOXES REQUIRED. IT SHALL BE THE RESPONSIBILITY OF THE PRIVATE OWNER TO HAVE A CERTIFIED PLUMBER INSTALL A BACKFLOW PREVENTER AND EXTEND SERVICE LINE ON DISCHARGE SIDE OF METER.  
4. THE EPWU WILL FURNISH THE METER, WHICH SHALL BE INSTALLED BY THE CONTRACTOR.  
5. FOOTING REQUIRED WHEN PLACED UNDER EXISTING OR PROPOSED STREET PAVING.

**CONSTRUCTION KEY NOTES:**  
A. 4" TAPPING SLEEVE AND VALVE  
B. 4" P.V.C.  
C. 4"x3" REDUCER  
D. 3"x2" TEE  
E. 3" GATE VALVE  
F. 3" METER  
G. 3" TEST PLUG D.I.P.  
H. 2" GATE VALVE  
I. 2" BY-PASS METER  
J. 3" SPOOL D.I.P.  
K. 3" BEND 90°  
L. 3" BACKFLOW PREVENTER  
M. STANDARD METER BOX TYPE "D"  
N. THRUST BLOCKING AS REQUIRED  
O. 3" FLANGED D.I.P. - LENGTH AS REQUIRED  
P. BONNET BOX AND COVER IN ACCORDANCE WITH DET 269.  
Q. PIPE AS PER EPWU STANDARD DET 260.



SERVICE LINE 1 1/2" AND 2" INSTALLATION BY CONTRACTOR N.T.S.  
290-5

**GENERAL NOTES:**  
1. DETAIL SHOWN FOR 1 1/2" SERVICE; INSTALLATION SIMILAR FOR 2" SERVICE EXCEPT FOR SIZES OF PIPE, FITTINGS, METER AND METER BOX. WHEN SPECIFIED A 1" BY-PASS METER SHALL BE INSTALLED WITH A 1 1/2" SERVICE. A 2" SERVICE SHALL INCLUDE A 1" BY-PASS METER.  
2. WHERE NO CURB EXISTS, METER IS TO BE SET NEAR PROPERTY LINE OR AT DESIGNATED LOCATION.  
3. THE CONTRACTOR SHALL FURNISH AND INSTALL ALL NECESSARY PIPE, FITTINGS, AND METER BOXES REQUIRED. IT SHALL BE THE RESPONSIBILITY OF THE PRIVATE OWNER TO HAVE A CERTIFIED PLUMBER INSTALL A BACKFLOW PREVENTER AND EXTEND SERVICE LINE ON DISCHARGE SIDE OF METER.  
4. THE EPWU WILL FURNISH AND INSTALL THE METER.

**CONSTRUCTION KEY NOTES:**  
A. SERVICE SADDLE WITH CORPORATION STOP  
B. 1 1/2" TAP WITH CORPORATION STOP  
C. 1 1/2" COPPER PIPE. FOR 1 1/2" & 2" SERVICE INSTALLATIONS, ALL PIPING SHALL BE COPPER AND ALL FITTINGS SHALL BE BRONZE UNLESS OTHERWISE SPECIFIED.  
D. 1 1/2" FLARED CONNECTION  
E. 1 1/2" FEMALE THREADED 90° ELBOW  
F. 1 1/2" FEMALE THREADED TEE  
G. 1 1/2" FLANGED BY FEMALE THREADED GATE VALVE  
H. 1 1/2" TURBINE METER  
I. 1" FEMALE THREADED CURB VALVE  
J. 1 1/2" BY-PASS METER  
K. METER BOX TYPE "C" (SEE DETAIL 293) FOR 1 1/2" OR TYPE "D" (SEE DETAIL 294) FOR 2" SERVICE  
L. 1 1/2" BACKFLOW PREVENTER WHEN REQUIRED BY EPWU  
M. THRUST BLOCKING AS REQUIRED  
N. 1 1/2" BRASS PIPE - LENGTH AS REQUIRED  
O. 1 1/2" THREADED NIPPLE  
P. 1" FLARED BY MALE THREADED 90° ELBOW

EL PASO WATER UTILITY DETAILS NUMBERS:  
170, 179, 282, 291, 295-1, 300, 301, 261-2  
179

MESQUITE HILLS UNIT SEVEN

BENCHMARK  
CITY MONUMENT AT THE CENTERLINE INTERSECTION OF COPPER CANYON DRIVE AND COPPER MINE LANE. ELEVATION 4007.42  
BY:   
REVISIONS  
DATE 04/19/13  
2ND SET OF CITY COMMENTS  
R.R.  
**MESQUITE HILLS UNIT SEVEN**  
BEING PORTION OF TRACTS 5 AND 6, SECTION 16, BLOCK 80, TOWNSHIP 1, TEXAS AND PACIFIC RAILROAD CO. SURVEYS, CITY OF EL PASO, EL PASO COUNTY, TEXAS CONTAINING: 108.76 ACRES

S.C.A.L.E  
HORIZ: ---  
VERT: ---  
DATE: DEC. 2012  
DESIGN BY: YC  
INITIATED BY: RR  
CHECKED BY: YC & FC  
JOB NO.: 512-24  
ENGINEER'S SEAL  
ENGINEER'S SEAL NOT REQUIRED. THIS SHEET IS UNBOUND FROM THE PROJECT SUBDIVISION DESIGN STANDARDS

CONDE INC.  
ENGINEERING / PLANNING / SURVEYING / GPS  
6060 SUBURY DR. STE. 100  
EL PASO, TEXAS 79905  
PHONE: (915) 692-0283  
FAX: (915) 692-0286

CONDE INC.  
REGISTRATION No. P-2321  
SHEET TITLE

WATER DETAILS  
SHT 74 OF 80

FILE S:\Subdivisions\MESQUITE HILLS 7.DWG\AS NOTES AND DETAILS PLOTTED Thursday, May 01, 2014 4:57:00 PM

**WATER AND SEWER NOTES**

- 1. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE TCEQ AND EL PASO WATER UTILITIES DESIGN STANDARDS AND SPECIFICATIONS WHEN CONFLICTS ARE NOTED WITH LOCAL STANDARDS. THE MORE STRINGENT SHALL BE APPLIED. CONSTRUCTION FOR PUBLIC WATER SYSTEMS MUST ALWAYS AT A MINIMUM MEET TCEQ'S RULES AND REGULATIONS FOR PUBLIC WATER SYSTEMS.
2. PRIOR TO BEGINNING CONSTRUCTION, THE OWNER OR HIS/HER AUTHORIZED REPRESENTATIVE SHALL CONVEENE A PRE-CONSTRUCTION CONFERENCE BETWEEN THE CONSULTING ENGINEER REPRESENTATIVE, CONTRACTORS, PSB ENGINEERS, EL PASO COUNTY (IF APPROPRIATE), THE PSB AND ANY OTHER AFFECTED PARTIES. NOTIFY ALL SUCH PARTIES AT LEAST 48 HOURS PRIOR TO THE TIME OF THE CONFERENCE AND 48 HOURS PRIOR TO THE BEGINNING OF CONSTRUCTION.
3. THE CONTRACTOR SHALL GIVE THE ENGINEER, CITY, AND THE PSB A MINIMUM OF 48 HOURS NOTICE BEFORE BEGINNING EACH PHASE OF CONSTRUCTION. PUBLIC WATER AND SEWER UTILITY WORK, INCLUDING THE INS SHALL NOT BE PERFORMED UNTIL A DEVELOPMENT AGREEMENT HAS BEEN EXECUTED BETWEEN THE OWNER AND EPWU-PSB. WORK SHALL BE COORDINATED WITH EPWU-PSB FIELD ENGINEER AT LEAST 48 HOURS PRIOR TO COMMENCING ANY PUBLIC UTILITY WORK.
4. ANY EXISTING PAYMENT, CURBS AND/OR SIDEWALKS DAMAGED OR REMOVED WILL BE REPAIRED BY THE CONTRACTOR AT HIS OWN EXPENSE BEFORE ACCEPTANCE OF THE WORK.
5. THE LOCATION OF ANY WATER AND/OR WASTEWATER LINES TO BE CROSSED OR CONNECTED TO SHALL BE VERIFIED BY THE CONTRACTOR AT THE TIME OF COMMENCEMENT OF CONSTRUCTION.
6. CONTRACTORS SHALL VERIFY EXACT DEPTH AND LOCATION OF ALL UTILITIES PRIOR TO BEGINNING CONSTRUCTION. ANY DAMAGE TO EXISTING UTILITIES, DRIVEWAYS, PAVEMENT, CURB & GUTTER, SIDEWALKS, ETC. SHALL BE REPAIRED BY THE CONTRACTOR, OR THE UTILITY, AT UTILITIES OPTION, AND CONTRACTOR, OR THE UTILITY, AT UTILITIES OPTION, AND SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.
7. ALL WATER MAINS SHALL HAVE A MINIMUM 48 INCHES OF COVER FROM FINISHED GRADE OR 40 INCHES BELOW ACTUAL SUBGRADE UNLESS OTHERWISE DENOTED ON THE PLANS.
8. CONTACT THE EL PASO WATER UTILITIES AND ANY OTHER CONCERNED PARTIES 48 HOURS PRIOR TO CONNECTING TO EXISTING WATER AND/OR WASTEWATER LINES.
9. ALL FILL AREAS OVER ALL UTILITIES, SHALL BE COMPACTED TO 95 % STANDARD PROCTOR DENSITY IN ACCORDANCE WITH TEX 113-B METHOD.
10. WATER AND WASTEWATER ALIGNMENTS SHOWN ON THE PLANS SHOULD BE ACHIEVED BY DEFLECTION WITHIN THE MANUFACTURER'S SPECIFICATIONS, EXCEPT WHERE SPECIFIC FITTINGS ARE CALLED FOR PLANS.
11. IT IS THE CONTRACTOR'S RESPONSIBILITY TO LOCATE AND PROTECT ALL EXISTING UTILITIES SUCH AS GAS LINES, ELECTRIC LINES, WATERLINES, VALVE BOXES, FIRE HYDRANTS, STRUCTURES, AND OTHER APPURTENANCES THAT LIE WITHIN THE RIGHT-OF-WAY OR BASEMENTS. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO REPAIR ALL UTILITIES, DRIVEWAYS, PAVEMENT, CURB, GUTTER, SIDEWALKS, FENCES AND OTHER ITEMS DAMAGED DURING CONSTRUCTION REGARDLESS OF WHETHER ALL ITEMS ARE SHOWN ON THE PLANS AT HIS SOLE EXPENSE. IN ADDITION TO NORMAL PRECAUTIONS WHEN EXCAVATING, TAKE EXTRA CAUTION WHEN EXCAVATING WITHIN 25 FT. OF ANY UTILITIES SHOWN ON THE PLANS.
12. THE CONTRACTOR SHALL INCLUDE ADDITIONAL FLUSHING VALVES AND TEST CONNECTIONS NECESSARY TO PERFORM TEST AND STERILIZATION OPERATION.
13. ALL CONSTRUCTION ACTIVITIES, INCLUDING ACCESS, EGRESS, TRAVEL, STOCKPILING, ETC. ARE TO BE CONFINED TO AREAS IDENTIFIED BY THE ENGINEER.
14. DISPOSAL OF ALL SPOIL OFFSITE WILL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
15. PIPE FITTINGS AND JOINTS: WATER PIPE-PVC SDR 14, C-900, CL-350 WITH BOLTLESS GASKETED JOINTS AND C.I., M.J. OR FLANGED PIPE FITTINGS UNLESS OTHERWISE SHOWN ON THE PLANS; FLUSHING VALVE / FIRE HYDRANTS LEAD - DUCTILE IRON, CLASS 60, MECHANICAL JOINTS AND C.I. (D.I. ENDS) FITTINGS UNLESS OTHERWISE SHOWN ON THE PLANS; GRAVITY SEWER - PVC SDR 35 AND SDR 26 UNLESS OTHERWISE NOTED. ALL PIPES, FITTINGS, VALVES, HYDRANTS, AND OTHER APPURTENANCES TO BE USED ON THE INSTALLATION OF PUBLIC SYSTEMS SHALL CONFORM TO THE MATERIALS AND DIMENSIONS DEPICTED ON CURRENT EPWU-PSB STANDARD DETAILS.
16. ALL GATE VALVES SHALL HAVE RESILIENT VALVE SEATS.
17. AT ALL LOCATIONS WHERE A WATERLINE CROSSES A WASTEWATER LINE, THE CONSTRUCTION SHALL STRICTLY COMPLY WITH ALL APPLICABLE RULES AND REGULATIONS OF THE TCEQ, TCEQ SPECIFICATIONS FOR LOCATION OF WATERLINES AS REQUIRED IN TITLE 30 TAC, CHAPTER 290.44(e) (RULES AND REGULATIONS FOR PUBLIC WATER SYSTEMS) AND MINIMUM REQUIREMENTS.
18. THE CONTRACTOR SHALL FURNISH THE ENGINEER ONE SET OF AS-BUILT PLANS REFLECTING ALL CHANGES MADE IN THE FIELD, AND TWO MEASUREMENTS TO ALL VALVES AND MANHOLES INSTALLED FROM PERMANENT OBJECTS.
19. THE PSB AND THE ENGINEER SHALL BE GIVEN 48 HOURS NOTICE PRIOR TO ANY TESTING PHASE (DENSITY, PRESSURE, LEAKAGE, ETC.)
20. MANHOLE CONSTRUCTION AND REHABILITATION: ALL MANHOLES ARE WATER-TIGHT, WITH WATER-TIGHT RINGS AND COVERS. IF MANHOLES ARE WITHIN THE 100-YEAR FLOODPLAIN THE MANHOLE COVERS SHALL HAVE GASKETS AND BE BOLTED, WHERE GASKETED MANHOLE COVERS ARE REQUIRED FOR MORE THAN THREE MANHOLES IN SEQUENCE, ALTERNATE MEANS OF VENTING SHALL BE PROVIDED. BRICKS ARE NOT AN ACCEPTABLE CONSTRUCTION MATERIAL FOR ANY PORTION OF THE MANHOLE PER 30 TAC 290.317.2 (5)(F).
21. CONSTRUCTION OF PUBLIC WATER AND SEWER SYSTEM INCLUDING MATERIALS AND TESTING SHALL CONFORM WITH EPWU-PSB STANDARD SPECIFICATIONS FOR THE INSTALLATION OF WATER MAINS, SANITARY SEWER MAIN AND RELATED APPURTENANCES.

**ALL MANHOLES MUST BE TESTED TO MEET OR EXCEED THE FOLLOWING REQUIREMENTS:**

MANHOLES AND WET WELLS MUST BE TESTED SEPARATELY AND INDEPENDENTLY OF THE COLLECTION LINES. ALL MANHOLES MUST BE HYDROSTATICALLY TESTED WITH A MAXIMUM-LOSS ALLOWANCE OF 0.025-GALLON PER FOOT DIAMETER PER FOOT OF HEAD PER HOUR. OTHER TESTING METHODS, SUCH AS VACUUM TESTING, MAY BE APPROVED ON A CASE-BY-CASE BASIS BY THE EXECUTIVE DIRECTOR OF THE TCEQ.

**22. ALL 8" SEWER LINES SHALL BE TESTED USING THE FOLLOWING METHOD:**

- A. ALL LOW PRESSURE AIR SHALL CONFORM TO THE PROCEDURES DESCRIBED IN ASTM C-828, ASTM C-924, OR OTHER APPROPRIATE PROCEDURES. THE TIME FOR THE PRESSURE TO DROP SHALL BE AT LEAST AS STRINGENT AS THE REQUIREMENTS OF TCEQ RULES SECTION 317.2(A)(4)(B) DESCRIBED BELOW.
FOR SECTIONS OF PIPE UP TO 36-INCHES AVERAGE INSIDE DIAMETER MINIMUM TIME ALLOWABLE FOR THE PRESSURE TO DROP FROM 3.5 POUND PER SQUARE INCH GAUGE TO 2.5 POUNDS PER SQUARE INCH GAUGE SHALL BE COMPUTED FROM THE FOLLOWING EQUATION:

T = 0.08660(D)^(K) / (Q); WHERE T = TIME FOR PRESSURE TO DROP 1.0 POUND PER SQUARE INCH GAUGE IN SECONDS.
K = 0.000419(D)(L), BUT NOT LESS THAN 1.0
D = AVERAGE INSIDE DIAMETER IN INCHES
L = LENGTH OF LINE IN FEET OF SAME SIZE BEING TESTED
Q = RATE OF LOSS, 0.0016 CUBIC FEET PER MINUTE PER SQUARE INCH INTERNAL SURFACE SHALL BE USED.

SINCE A K VALUE OF LESS THAN 1.0 SHALL NOT BE USED, THERE ARE MINIMUM TIMES FOR EACH PIPE DIAMETER AS OUTLINED BELOW:

Table with 5 columns: PIPE DIA. (IN), MIN. TIME (SEC), LEN. FOR MIN (FT), TIME FOR LONGER LENGTH (SEC). Rows for pipe diameters 6, 8, 10, 12, 15, 18, 24, 27, 30, 33.

- B. ALL INFILTRATION/EXFILTRATION TESTS SHALL MEET THE FOLLOWING MINIMUM REQUIREMENTS. THE TOTAL INFILTRATION OR EXFILTRATION, AS DETERMINED BY WATER TEST, MUST BE AT A RATE NOT GREATER THAN 60 GALLONS PER INCH OF PIPE DIAMETER PER MILE OF PIPE PER 24 HOURS AT A MINIMUM TEST HEAD OF TWO FEET. IF THE QUANTITY OF INFILTRATION OR EXFILTRATION EXCEEDS THE MAXIMUM QUANTITY SPECIFIED, REMEDIAL ACTION MUST BE UNDERTAKEN IN ORDER TO REDUCE THE INFILTRATION OR EXFILTRATION TO AN AMOUNT WITHIN THE LIMITS SPECIFIED IN 30 TAC SEC 317.2 (A)(4)(A).

C. DEFLECTION TEST SHALL BE PERFORMED ON ALL FLEXIBLE AND SEMI-RIGID PIPES. THE TEST SHALL BE CONDUCTED AFTER THE FINAL BACKFILL HAS BEEN IN PLACE AT LEAST 30 DAYS. NO PIPE SHALL EXCEED A DEFLECTION OF FIVE PERCENT. IF THE DEFLECTION TEST IS TO BE RUN USING A RIGID BALL OR MANDREL, SUCH TEST DEVICE SHALL HAVE A DIAMETER EQUAL TO 95% OF THE INSIDE DIAMETER OF THE PIPE. THE TEST SHALL BE PERFORMED WITHOUT MECHANICAL PULLING DEVICES. THE DESIGN ENGINEER SHOULD RECOGNIZE THAT THIS IS A MAXIMUM DEFLECTION CRITERION FOR ALL PIPES. A REDUCED PERCENT DEFLECTION MAY BE MORE APPROPRIATE FOR SPECIFIC TYPES AND SIZES OF PIPE. REFERENCE 30 TAC SEC 317.2 (A)(4)(A).

- 22. THE BEDDING AND BACKFILL FOR FLEXIBLE PIPE SHALL COMPLY WITH THE STANDARDS OF ASTM D-2321, CLASSES I OR II. FOR RIGID PIPE BEDDING SHALL COMPLY WITH THE REQUIREMENTS OF ASTM-C-12 CLASSES A OR B. REFERENCE 30 TAC 6317.2.4.5

- 23. 8" SEWER LINES SHALL BE TESTED FROM MANHOLE TO MANHOLE OR WHEN A NEW 8" SEWER LINE IS CONNECTED TO AN EXISTING STUB OR CLEAN-OUT. IT SHALL BE TESTED FROM AN EXISTING MANHOLE TO A NEW MANHOLE.
24. WATER LINE/NEW 8" SEWER LINE SEPARATION: WHEN NEW SANITARY SEWERS ARE INSTALLED, THEY SHALL BE INSTALLED NO CLOSER TO WATER LINES THAN NINE FEET IN ALL DIRECTIONS. SEWERS THAT PARALLEL WATER LINES MUST BE INSTALLED IN SEPARATE TRENCHES, WHERE THE TEN (10) FOOT SEPARATION DISTANCE CANNOT BE ACHIEVED, THE FOLLOWING GUIDELINES APPLY:
A. WHERE A SANITARY SEWER PARALLELS A WATER LINE, THE SEWER SHALL BE CONSTRUCTED OF CAST IRON, DUCTILE IRON OR PVC MEETING ASTM SPECIFICATION WITH A PRESSURE RATING FOR BOTH THE PIPE AND JOINTS OF 160 PSI. THE VERTICAL SEPARATION SHALL BE A MINIMUM OF TWO FEET BETWEEN OUTSIDE DIAMETERS AND THE HORIZONTAL SEPARATION SHALL BE A MINIMUM OF FOUR FEET BETWEEN OUTSIDE DIAMETERS. THE SEWER SHALL BE LOCATED BELOW THE WATER LINE.
B. WHERE A SANITARY SEWER CROSSES A WATER LINE AND THE SEWER IS CONSTRUCTED OF CAST IRON, DUCTILE IRON OR PVC WITH A MINIMUM PRESSURE RATING OF 160 PSI, AN ABSOLUTE MINIMUM DISTANCE OF 6 INCHES BETWEEN OUTSIDE DIAMETERS SHALL BE MAINTAINED. IN ADDITION THE SEWER SHALL BE LOCATED BELOW THE WATER LINE WHERE POSSIBLE AND ONE LENGTH OF THE SEWER PIPE MUST BE CENTERED ON THE WATER LINE.
C. WHERE A SEWER CROSSES UNDER A WATER LINE AND THE SEWER IS CONSTRUCTED OF ABS TRUSS PIPE, SIMILAR SEMI-RIGID PLASTIC COMPOSITE PIPE, CLAY PIPE OR CONCRETE PIPE WITH GASKETED JOINTS, A MINIMUM TWO FOOT SEPARATION DISTANCE SHALL BE MAINTAINED. THE INITIAL BACKFILL SHALL BE CEMENT STABILIZED SAND (TWO OR MORE BAGS OF CEMENT PER CUBIC YARD OF SAND) FOR ALL SECTIONS OF SEWER WITHIN NINE FEET OF THE WATER LINE. THIS INITIAL BACKFILL SHALL BE FROM ONE QUARTER DIAMETER BELOW THE CENTERLINE OF THE PIPE TO ONE PIPE DIAMETER (BUT NOT LESS THAN 12 INCHES) ABOVE THE TOP OF THE PIPE.
D. WHERE A SEWER CROSSES OVER A WATER LINE ALL PORTIONS OF THE SEWER WITHIN NINE FEET OF THE WATER LINE SHALL BE CONSTRUCTED OF CAST IRON, DUCTILE IRON, OR PVC PIPE WITH A PRESSURE RATING OF AT LEAST 160 PSI USING APPROPRIATE ADAPTERS. IN LIEU OF THIS PROCEDURE, THE NEW CONVEYANCE MAY BE ENCASED IN A JOINT OF 160 PSI PRESSURE CLASS PIPE AT LEAST 18 FEET LONG AND TWO NOMINAL SIZES LARGER THAN THE NEW CONVEYANCE. THE SPACE AROUND THE CARRIER PIPE SHALL BE SUPPORTED AT 6 FEET INTERVALS WITH SPACERS OR BE FILLED TO THE SPRINGLINE WITH WASHED SAND. THE ENGAGEMENT PIPE SHOULD BE CENTERED ON THE CROSSING AND BOTH ENDS SEALED WITH CEMENT GROUT OR MANUFACTURED SEAL.
E. UNLESS MANHOLES CAN BE MADE WATER-TIGHT AND TESTED FOR NO LEAKAGE THEY MUST BE INSTALLED SO AS TO PROVIDE A MINIMUM OF NINE FEET OF HORIZONTAL CLEARANCE FROM AN EXISTING OR PROPOSED WATER LINE. IF THE NINE FOOT SEPARATION DISTANCE CANNOT BE ACHIEVED, THE WATERLINE MUST BE ENCASED IN A JOINT OF 150 PSI PRESSURE CLASS PIPE AT LEAST 18 FEET LONG AND TWO NOMINAL SIZES LARGER THAN THE WATERLINE. THE SPACE AROUND THE CARRIER PIPE SHALL BE SUPPORTED AT 6 FOOT INTERVALS WITH SPACERS OR BE FILLED TO THE SPRINGLINE WITH WASHED SAND. THE ENGAGEMENT PIPE SHALL BE CENTERED WITH CROSSING AND BOTH ENDS SEALED WITH CEMENT GROUT OR MANUFACTURED SEAL.
27. SEWERS SHALL BE LAID IN STRAIGHT ALIGNMENT WITH UNIFORM GRADE BETWEEN MANHOLES. DEVIATION FROM STRAIGHT ALIGNMENT AND UNIFORM GRADE, CURRENT COMMISSION POLICY REGARDING HORIZONTAL CURVATURE, SHALL BE COMPLIED WITH FULLY.

**GENERAL NOTES FOR CURVED 8" SEWER LINES:**

- A. ALL CURVATURE OF SEWER PIPE WILL BE ACHIEVED BY PIPE DEFLECTION PER THE MANUFACTURE'S RECOMMENDED PROCEDURE
B. IN-PLACE DEFLECTION TESTS (MANDREL TEST) MUST BE PERFORMED ON ALL FLEXIBLE AND SEMI-RIGID PIPE IN ACCORDANCE WITH 30 TAC SEC317.2 (A)(4)(C).
C. INFILTRATION TEST SHALL BE CONDUCTED IN ACCORDANCE WITH 30 TAC SEC317.2 (A)(4)(A) - 60 GALLONS PER INCH OF DIAMETER PER MILE OF PIPE.
D. SPECIFIC CARE SHALL BE TAKEN TO ENSURE THAT THE JOINT IS PLACED IN THE CENTER OF THE TRENCH AND PROPERLY BEDDED IN ACCORDANCE WITH 30 TAC SEC 317.2 (A)(6).

- 28. THE ASTM, ANSI, OR AWWA SPECIFICATION NUMBERS FOR THE PIPE AND JOINTS ARE ASTM D3034 & ASTM 2241. THE PIPE MATERIAL, THE PRESSURE CLASSES, AND THE SDR AND/OR DR DESIGNATIONS ARE SDR 35 AND SDR 26.
29. THE DIAMETER OF THE MANHOLES SHALL BE A MINIMUM OF FOUR FEET AND THE MANHOLE COVERS SHALL HAVE A MINIMUM NOMINAL DIAMETER OF 30". THESE DIMENSIONS ARE LABELED ON THE MANHOLE DRAWING ON THE DETAIL SHEET.
30. THE MANHOLE DETAILS SHALL INSURE THAT THE TCEQ RULES CONCERNING SEWER INVERTS HAVE BEEN COMPLIED WITH AS DESCRIBED IN 317.2(C)(6)(E).
31. A CROSS SECTION OF THE TRENCH DETAILS IS INCLUDED IN THE PLANS WHICH SHOW THE DIMENSIONS OF THE TRENCH AND PIPE AND THE CLASS OF BEDDING MATERIAL REQUIRED.
32. AFTER THE PIPE HAS BEEN INSTALLED AND CONNECTED, A PRESSURE TEST, FOLLOWED BY A LEAKAGE TEST, WILL BE CONDUCTED BY THE CONTRACTOR UNDER THE OBSERVATION OF THE ENGINEER. THE CONTRACTOR SHALL BE PRESENT AND SHALL FURNISH ALL NECESSARY LABOR AND EQUIPMENT FOR CONDUCTING THE TESTS. THE SPECIFIED TEST PRESSURES WILL BE BASED ON THE ELEVATION OF THE LOWEST POINT OF THE LINE OR SECTION UNDER TEST. BEFORE APPLYING THE SPECIFIED TEST PRESSURE, ALL AIR SHALL BE EXPELLED FROM THE PIPE. IF PERMANENT AIR VENTS ARE NOT LOCATED AT ALL HIGH POINTS, THE CONTRACTOR SHALL INSTALL CORPORATION COCKS AT SUCH POINTS. ALL DRAIN HYDRANT AND FIRE HYDRANT LEADS, WITH THE MAIN 6-INCH GATE VALVE OPEN, THE HYDRANT VALVE SEAT CLOSED AND NOZZEL CAPS OPEN, SHALL BE INCLUDED IN THE TEST.

A. PRESSURE TEST: THE ENTIRE PROJECT OF EACH VALVED SECTION SHALL BE TESTED, AT A PRESSURE OF 200 PSI FOR A SUFFICIENT PERIOD (APPROXIMATELY 10 MINUTES) TO DISCOVER ALL LEAKING OR DEFECTIVE MATERIALS. REPAIRS SHALL BE MADE BY THE CONTRACTOR TO CORRECT ANY LEAKING OR DEFECTIVE MATERIALS.

B. PRESSURE PIPE LEAKAGE TEST: A LEAKAGE TEST WILL FOLLOW THE PRESSURE TEST AND BE CONDUCTED ON THE ENTIRE PROJECT OR EACH VALVED SECTION. THE LEAKAGE TEST SHALL BE AT 160 PSI FOR AT LEAST 1 HOUR, UNLESS OTHERWISE SPECIFIED.

- 1. ALLOWABLE LEAKAGE: LEAKAGE SHALL BE DEFINED AS THE QUANTITY OF WATER THAT MUST BE SUPPLIED INTO THE PIPE SECTION BEING TESTED TO MAINTAIN A PRESSURE WITHIN 5 PSI OF THE SPECIFIED TEST PRESSURE AFTER THE PIPE HAS BEEN FILLED WITH WATER AND THE AIR IN THE PIPELINE HAS BEEN EXPELLED. NO INSTALLATION WILL BE ACCEPTED IF THE LEAKAGE IS GREATER THAN THAT DETERMINED BY THE FORMULA:

L=ND P
WHERE: L = ALLOWABLE LEAKAGE, IN GALLONS PER HOUR
N = NUMBER OF JOINTS IN THE LENGTH OF PIPELINE TESTED
D = NOMINAL DIAMETER OF THE PIPE, IN INCHES
P = AVERAGE TEST PRESSURE DURING THE LEAKAGE TEST, IN POUNDS PER SQUAR INCH (GAUGE)

- 2. LOCATING AND CORRECTION OF LEAKAGE: IF SUCH TESTING DISCLOSES LEAKAGE IN EXCESS OF THIS SPECIFIED AMOUNT ALLOWABLE, THE CONTRACTOR, AT HIS EXPENSE, SHALL LOCATE AND CORRECT ALL DEFECTS IN THE PIPE LINE UNTIL THE LEAKAGE IS WITHIN THE INDICATED ALLOWANCE. ALL VISIBLE LEAKAGE IN PIPE SHALL ALSO BE CORRECTED BY THE CONTRACTOR AT HIS OWN EXPENSE.

**TCEQ NOTES:**

- A. THE WATERLINES MUST BE DISINFECTED BEFORE USING ACCORDING TO THE CURRENT STANDARD, AWWA C951-02. A MINIMUM OF ONE BACTERIOLOGICAL SAMPLE MUST BE COLLECTED FOR EACH 1,000 FEET OF COMPLETED WATERLINE TO CHECK EFFICIENCY OF DISINFECTION PROCEDURES AND MUST BE REPEATED IF CONTAMINATION PERSISTS AS PER 290.44(I)(3).
B. ALL NEWLY INSTALLED PIPE AND FITTINGS MUST CONFORM TO ANSI/NSF STANDARD 61 AND MUST BE CERTIFIED BY AN ORGANIZATION ACCREDITED BY ANSI. ALL PLASTIC PIPE FOR USE IN PUBLIC WATER SYSTEMS MUST ALSO BEAR THE NATIONAL SANITATION FOUNDATION SEAL OF APPROVAL (NSF-pw) AS PER 290.44(a)(1) AND (2).
C. THE SYSTEM MUST MAINTAIN A MINIMUM PRESSURE OF 35 PSI AT ALL POINTS WITHIN THE DISTRIBUTION NETWORK AT FLOW RATES OF AT LEAST 1.5 GALLONS PER MINUTE PER CONNECTION. WHEN THE SYSTEM IS INTENDED TO PROVIDE FIRE FIGHTING CAPABILITY, IT MUST ALSO MAINTAIN A MINIMUM PRESURE OF 20 PSI UNDER COMBINED FIRE AND DRINKING WATER FLOW CONDITIONS AS REQUIRED IN 290.44(d) OF THE RULES.

**TRENCH SAFETY NOTES:**

- 1. IN ACCORDANCE WITH THE LAWS OF THE STATE OF TEXAS AND THE U.S. OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION REGULATIONS, ALL TRENCHES, OVER 5 FEET IN DEPTH IN EITHER HARD AND COMPACT OR SOFT AND UNSHABLE SOIL SHALL BE SLOPED, SHORED, SHEDDED, BRACED OR OTHERWISE SUPPORTED. FURTHERMORE, ALL TRENCHES LESS THAN 5 FEET IN DEPTH SHALL ALSO BE EFFECTIVELY PROTECTED WHEN HAZARDOUS GROUND MOVEMENT MAY BE EXPECTED.
2. IN ACCORDANCE WITH THE U.S. OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION REGUATIONS, WHEN EMPLOYEES ARE REQUIRED TO BE IN TRENCHES 4'-FEET DEEP OR MORE, ADEQUATE MEANS EXIT, SUCH AS A LADDER OR STEPS, MUST BE PROVIDED AND LOCATED SO AS TO REQUIRE NO MORE THAN 25 FEET OF LATERAL TRAVEL.
3. IF TRENCH SAFETY SYSTEM DETAILS WERE NOT PROVIDED IN THE PLANS BECAUSE TRENCHES WERE ANTICIPATED TO BE LESS THAN FIVE FEET IN DEPTH AND DURING CONSTRUCTION IT IS FOUND THAT TRENCHES ARE IN FACT 5 FEET OR MORE IN DEPTH OR TRENCHES LESS THAN 6 FEET IN DEPTH ARE IN AN AREA WHERE HAZARDOUS GROUND MOVEMENT IS EXPECTED, ALL CONSTRUCTION SHALL CEASE. THE TRENCHED AREA SHALL BE BARRICADED AND THE ENGINEER NOTIFIED IMMEDIATELY. CONSTRUCTION SHALL NOT RESUME UNTIL APPROPRIATE TRENCH SAFETY SYSTEM DETAILS, AS DESIGNED BY A PROFESSIONAL ENGINEER, ARE SUBMITTED TO AND ACCEPTED BY THE HORIZON REGIONAL MUNICIPAL UTILITY DISTRICT.
4. CONTRACTOR SHALL PROVIDE TO THE P.E.B. A TRENCH SAFETY PLAN, SEALED BY A REGISTERED ENGINEER.

**UTILITY NOTES:**

- 1. CONTRACTOR MUST COORDINATE WATER SYSTEM WITH SEWER SYSTEM TO PREVENT ANY CONFLICTS WHERE THIS LINES INTERSECT ONE ANOTHER.
2. AREAS WHERE WATER PIPES CROSS OVER SEWER PIPES SHALL NOT HAVE ANY JOINTS.
3. WATER & SEWER TO HAVE A MINIMUM SEPARATION OF 10 FEET.

**THE FOLLOWING LIST INCLUDES THE KNOWN RESPONSIBLE AUTHORITIES:**

- TEXAS GAS SERVICE IVAN ALOCBER.....(916) 680-7238
EL PASO ELECTRIC COMPANY RAY BECERRA.....(606) 882-2317
EL PASO WATER UTILITIES FELIPE LOPEZ.....(916) 694-6530
TIME WARNER COMMUNICATIONS RAY MENDOZA.....(916) 776-7416
PARKS AND RECREATION DAVID OCHOA.....(916) 698-0771
LOUIS ALOYSIUS.....(916) 621-3791
ATA& FRANCISCO VACIO.....(916) 696-6110

**WATER NOTES:**

- 1. CONTACT UTILITY COMPANIES FOR EXACT LOCATION FOR UNDERGROUND UTILITIES IN THE AREA.
2. PROVIDE ADEQUATE CONCRETE THRUST BLOCKING AT THE FOLLOWING: TAPPING, SLEEVES, TEES, BENDS, PLUGS - ALL FITTINGS.
3. INSTALL A TRENCH SAFETY SYSTEM TO PROVIDE FOR THE SAFE EXCAVATION OF ALL TRENCHES EXCEEDING A DEPTH OF (5') FIVE FEET AS PER O.S.H.A. STANDARDS.
4. ALL P.V.C. PIPE ON THIS PLAN SHALL BE ENCASED WITH SELECT BEDDING WHEN PLACED IN CITY ROW. IN SITU (ACCEPTABLE) MATERIAL CAN BE USED IN PRIVATE LINES.
5. ALL VALVES ON P.V.C. WATER MAINS SHALL BE ANCHORED IN CONCRETE.
7. CITY PAVING CUT PERMIT REQUIRED BEFORE EXCAVATION.
8. RECONNECTION OF EXISTING WATER LINE SYSTEM SHOWN ON THESE PLANS MUST BE MADE, SUCH THAT MINIMAL INTERRUPTION OF SERVICE TO CUSTOMER IS MADE.
9. ALL EXISTING LINES CURRENTLY IN SERVICE MUST REMAIN IN SERVICE THROUGHOUT CONSTRUCTION. CONTRACTOR IS RESPONSIBLE FOR PROTECTING 8" SEWER LINES (INCLUDING SERVICES) FROM DAMAGE AS A RESULT OF CONSTRUCTION.
10. VALVES AND OTHER PIPE MATERIALS TO BE ABANDONED SHALL BE REMOVED AND DISPOSED AT THE CONTRACTOR'S RESPONSIBILITY AND EXPENSE.
11. CONTRACTOR SHALL VERIFY LOCATION OF SERVICES BEFORE CONSTRUCTION.
12. CONTRACTOR SHALL COORDINATE WITH CITY CONSTRUCTION SEQUENCE AND TRAFFIC CONTROL PLANS.
13. CONTRACTOR SHALL PROVIDE TEMPORARY SERVICE TO CUSTOMERS IF SERVICE WILL BE INTERRUPTED FOR MORE THAN (4) HOURS IN A 24-HOUR PERIOD.
14. CONTRACTOR TO ADJUST WATER VALVES TO FINAL GRADE WHERE NECESSARY. COORDINATE FINAL GRADE ELEVATION WITH JOHN HAYES ST.
15. FIRE PROTECTION LINE TO BE SIZED BY FIRE PROTECION CONTRACTOR.

**SEWER NOTES:**

- 1. CONTACT UTILITY COMPANIES FOR EXACT LOCATION OF UNDERGROUND UTILITIES IN THIS AREA.
2. INSTALL A TRENCH SAFETY SYSTEM TO PROVIDE FOR THE SAFE EXCAVATION OF ALL TRENCHES EXCEEDING A DEPTH OF (5') FIVE FEET AS PER O.S.H.A. STANDARDS.
3. ALL P.V.C. PIPE ON THIS PLAN SHALL BE ENCASED WITH SELECT BEDDING WHEN PLACED IN CITY ROW. IN SITU (ACCEPTABLE) MATERIAL CAN BE USED IN PRIVATE LINES.
4. PROVIDE MANHOLE ADAPTER WHERE P.V.C. PIPE CONNECTS TO MANHOLE.
5. WATER & SANITARY SEWER MAIN SEPARATION REQUIREMENTS SHALL COMPLY WITH "O.C.E.Q." MINIMUM VERTICAL SEPARATION REQUIREMENTS. (REFER TO SPECIFICATIONS.)
6. ALL EXISTING 8" SEWER LINES AND SERVICES CURRENTLY IN SERVICE MUST REMAIN IN SERVICE THROUGHOUT CONSTRUCTION. CONTRACTOR SHALL PROVIDE TEMPORARY SERVICE TO CUSTOMERS IF SERVICE WILL BE INTERRUPTED FOR MORE THAN (4) HOURS IN A 24-HOUR PERIOD. CONTRACTOR IS RESPONSIBLE FOR PROTECTING 8" SEWER LINES (INCLUDING SERVICES) FROM DAMAGE AS A RESULT OF CONSTRUCTION.
7. CONTRACTOR SHALL COORDINATE WITH CITY CONSTRUCTION SEQUENCE AND TRAFFIC CONTROL PLANS.

**PAYMENT NOTES:**

SEE SHEET 21 FOR PAVEMENT NOTES

BENCHMARK
CITY MONUMENT AT THE CENTERLINE INTERSECTION OF COPPER CANYON DRIVE AND COPPER MINE LANE.
ELEVATION 4007.42 ..... CITY DATUM
BY DATE REVISIONS
04/19/13 2ND SET OF CITY COMMENTS R.R.

PROJECT NAME
MESQUITE HILLS UNIT SEVEN
BRING PORTION OF TRACTS 5 AND 6, SECTION 16, BLOCK 80, TOWNSHIP 1, TEXAS AND PACIFIC RAILROAD Co. SURVEYS, CITY OF EL PASO, EL PASO COUNTY, TEXAS. CONTAINING: 106.78 ACRES

SCALE
HORIZ: ---
VERT: ---
DATE: DEC. 2012
DESIGN BY: YC
INITIATED BY: RR
CHECKED BY: YC & JC
JOB NO.: 612-24

ENGINEER'S SEAL
ENGINEER'S SEAL NOT REQUIRED. THIS SHEET IS PRODUCED FROM CITY DESIGN STANDARDS

CONDE INC.
ENGINEERING / PLANNING
SURVEYING / GPS
6090 SURETY DR. STE 100
EL PASO, TEXAS 79905
PHONE: (915) 592-0283
FAX: (915) 592-0286

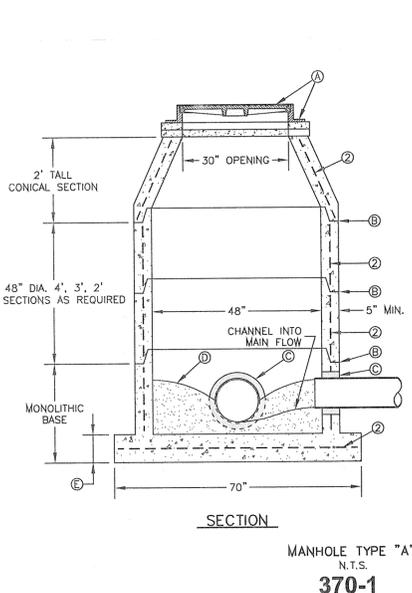
CONDE INC.
REGISTRATION No. F-2321

SHEET TITLE

W&S NOTES AND DETAILS - NOTES

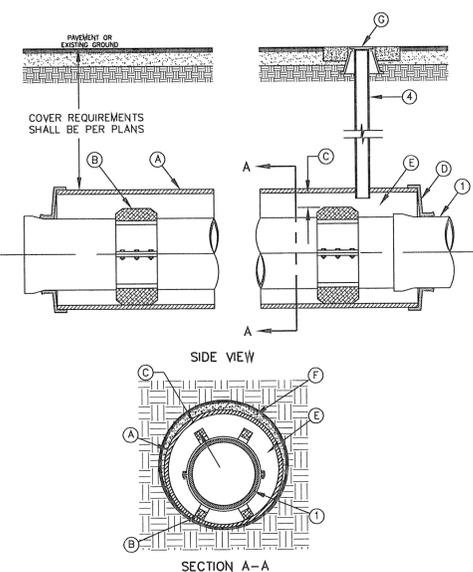


REVIEWED



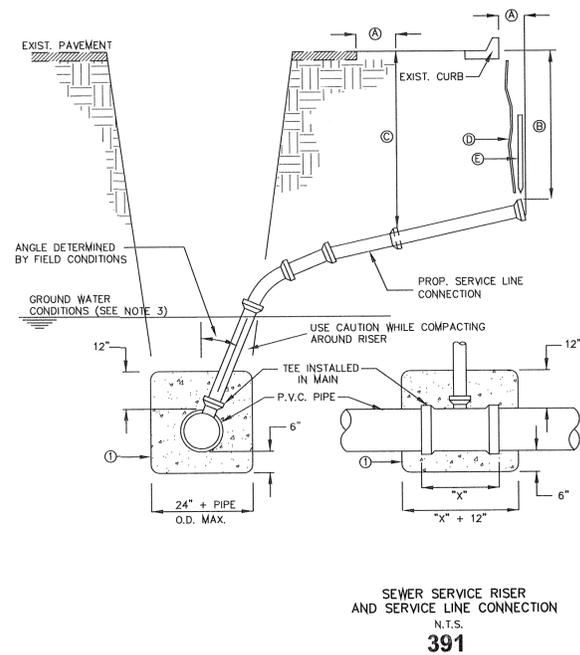
- GENERAL NOTES:**
- MANHOLE TYPE "A" SHALL BE USED FOR LINES 21" AND SMALLER.
  - PRE-CAST MANHOLE SECTIONS SHALL BE OF REINFORCED CONCRETE CONFORMING TO ASTM C-478 AND SHALL MEET HS-20 LOADINGS. PROVIDE REINFORCEMENT WITHIN 3" @ OPENINGS OR KNOCKOUTS, OPENINGS (UP TO 8") MADE IN FIELD SHALL BE CORE DRILLED.
  - CEMENT SHALL BE TYPE I-II, PER ASTM C-150, AND MUST CONTAIN A MINIMUM OF 4% FLY ASH OF THE TOTAL MANHOLE WEIGHT.
  - THE BASE & RISER SHALL BE INTEGRALLY CAST. CONCRETE SHALL BE MIN. 28 DAY COMPRESSIVE STRENGTH 4000psi.
  - MANUFACTURER TO PROVIDE LIFTERS OF ADEQUATE SIZE AS NEEDED.
  - THE SUBGRADE UNDER THE BASE SHALL BE COMPACTED TO 95% DENSITY IN ACCORDANCE WITH ASTM D-1557.
  - MANHOLES BELOW GROUNDWATER TO BE EXTERNALLY AND INTERNALLY COATED WITH BITUMINOUS COATING.

- CONSTRUCTION KEY NOTES:**
- MANHOLE RING AND COVER (SEE DETAILS 377 & 378). SET FRAME AND COVER FLUSH WITH ROADWAY SURFACE OR FINISHED GRADE (SEE DETAIL 185).
  - ALL JOINTS TO BE TONGUE, GROOVE AND SEALED WITH RAM-NEX OR APPROVED EQUAL.
  - PIPE OPENINGS/KNOCKOUTS AS REQUIRED TO FIT PIPE SIZE AND SHALL HAVE FLEXIBLE PIPE TO MANHOLE CONNECTORS (COMPRESSION TYPE ASTM-923). "KOR-N-SEAL" OR APPROVED EQUAL. GROUT AS REQUIRED.
  - CONCRETE BASE SHALL BE 8" FOR MH'S UP TO 12" DEEP AND 12" FOR DEPTHS GREATER THAN 12".

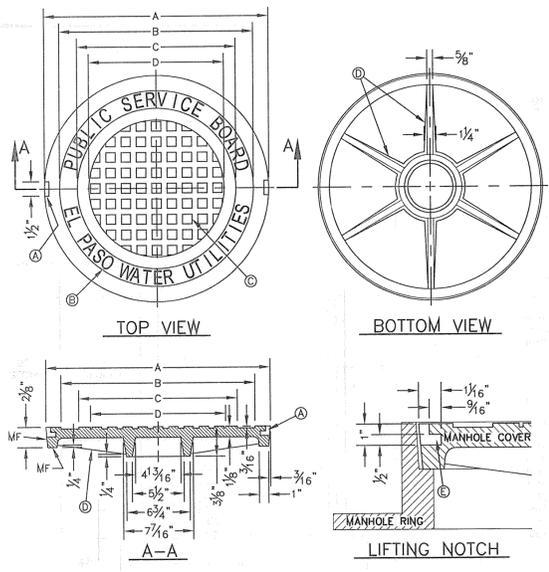


- GENERAL NOTES:**
- INSTALLATION FOR APPROVED CARRIER PIPE.
  - CASING SHALL BE INSTALLED USING EITHER JACKING, BORING OR TUNNELING METHODS FROM THE END WHICH CREATES A MINIMUM OF ACCESS AND RELOCATION PROBLEMS.
  - INSULATED SPACERS SHALL BE USED WHEN SPECIFIED, TO PROVIDE CORROSION PROTECTION.
  - PRECAUTIONARY OUTLET (6") WITH BONNET BOX AND COVER SHALL BE USED WHEN REQUIRED BY OTHER GOVERNING AGENCIES.

- CONSTRUCTION KEY NOTES:**
- STEEL CASING MINIMUM YIELD 36000 PSI, SIZE AND LENGTH AS SPECIFIED.
  - CASING INSULATORS, SPACING AND LOCATION PER MANUFACTURER'S RECOMMENDATIONS. INSULATORS SHALL FIT SNUG OVER THE CARRIER PIPE.
  - POSITION CARRIER PIPE APPROXIMATELY IN CENTER OF CASING. MINIMUM SPACING BETWEEN INSULATOR AND CARRIER PIPE SHALL BE 1", MAXIMUM SPACING SHALL BE 2".
  - END SHALL BE SEALED WITH BRICK AND MORTAR, BULKHEAD AND GROUT, OR WITH SYNTHETIC RUBBER SEAL, AS SPECIFIED.
  - ANNULAR SPACE SHALL BE LEFT OPEN FOR CATHODICALLY PROTECTED SYSTEM WHERE BOTH CASING AND CARRIER PIPE ARE METALLIC MATERIAL, OR AS OTHERWISE SPECIFIED.
  - PRESSURE GROUT ANNULAR SPACE OUTSIDE CASING AFTER CASING IS INSTALLED.
  - BONNET BOX AND COVER (SEE DETAILS 268, 269-1 & 269-2) SET FRAME AND COVER FLUSH WITH ROADWAY SURFACE OR FINISHED GRADE (SEE DETAIL 260).



- GENERAL NOTES:**
- IN GROUNDWATER CONDITIONS ONLY, P.V.C. SADDLES OR TEES ARE TO BE ENCASED WITH CLASS B CONCRETE.
  - UNDER CERTAIN CONDITIONS FIELD INVESTIGATIONS WILL BE REQUIRED TO DETERMINE THE ADEQUACY OF THE DEPTH ON THE LATERAL.
  - WHEN GROUND WATER IS ENCOUNTERED SERVICE RISER SHALL BE EXTENDED ABOVE ANTICIPATED WATER TABLE LEVEL.
- CONSTRUCTION KEY NOTES:**
- CONTRACTOR TO INSTALL SEWER SERVICE LINE FROM THE MAIN TO A LOCATION 6" BEHIND THE CURB OR 18" BEYOND THE EDGE OF PAYMENT, UNLESS CONDITIONS REQUIRE OTHERWISE.
  - 18" FOR STANDARD SUBDIVISION, 3.5' FOR SUBDIVISIONS WITH ON-SITE PONDING OR FLAT TERRAIN.
  - RISERS OR LATERALS EXTENDING BEYOND EXISTING PAYING SHALL BE INSTALLED TO 3.5' MINIMUM TOP OF GROUND OR PAYMENT, UNLESS CONDITIONS REQUIRE OTHERWISE.
  - PLASTIC METALLIC MARKING TAPE RISING TO WITHIN 6" OF GROUND SURFACE OR METALLIC DISK.
  - WOODEN STAKE (1"x2"x36") VERTICALLY PLACED AT PLUGGED END OF PROPOSED SERVICE LINE.



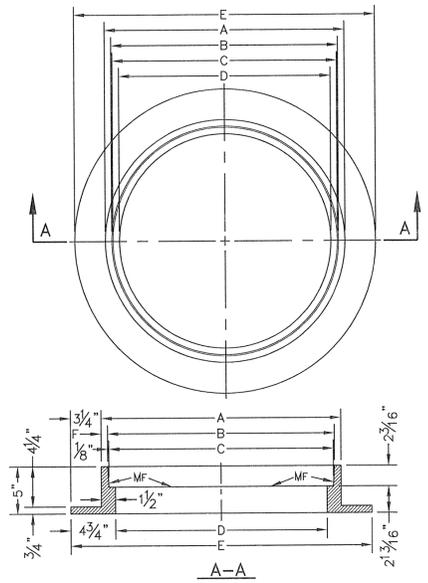
- GENERAL NOTES:**
- MATCHING SURFACES MARKED "MF" TO BE FINISHED OF ANY IRREGULARITIES THAT WOULD PREVENT A SNUG FIT.
  - CASTING TO BE SMOOTH & VOID OF AIR HOLES.
  - CASTING MUST MEET REQUIREMENTS OF AASHTO M306-07.
  - AS-CAST DIMENSIONS MAY VARY  $\frac{1}{8}$ " +/- PER FOOT (AASHTO M306-07).
  - WEIGHT MAY VARY 5% +/- (AASHTO M306-07).

**CONSTRUCTION KEY NOTES:**

- LIFTING NOTCH.
- $\frac{3}{4}$ " RAISED LETTERING.
- "S" SQUARES ( $\frac{3}{4}$ " TALL) WITH  $\frac{1}{8}$ " SPACE BETWEEN.
- REINFORCING RIBS.
- SLOT.

MANHOLE COVER	MANHOLE - ALL TYPES	*MANHOLE TYPE A, A1, A2 & C
A	31 3/8"	23 7/8"
B	28 3/8"	20 5/8"
C	24 3/8"	16 7/8"
D	21 7/8"	14 3/8"
WEIGHT	265 lbs.	165 lbs.

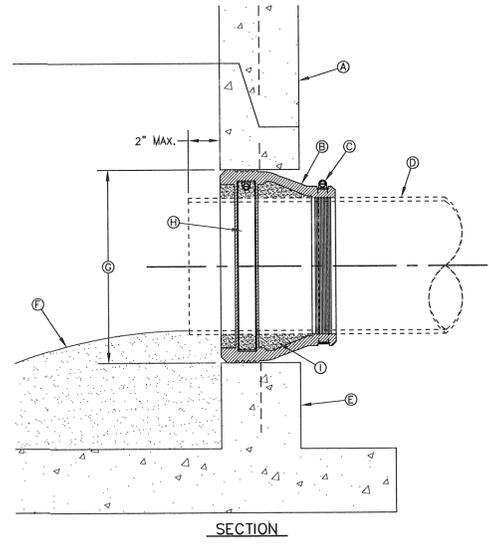
\*OBSOLETE - DO NOT USE (FOR REFERENCE ONLY)



- GENERAL NOTES:**
- MATCHING SURFACES MARKED "MF" TO BE FINISHED OF ANY IRREGULARITIES THAT WOULD PREVENT A SNUG FIT.
  - CASTING TO BE SMOOTH & VOID OF AIR HOLES.
  - CASTING MUST MEET REQUIREMENTS OF AASHTO M306-07.
  - AS-CAST DIMENSIONS MAY VARY  $\frac{1}{8}$ " +/- PER FOOT (AASHTO M306-07).
  - WEIGHT MAY VARY 5% +/- (AASHTO M306-07).

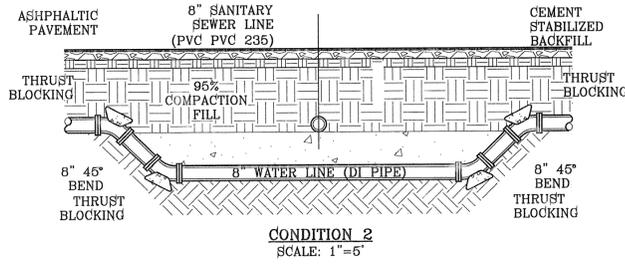
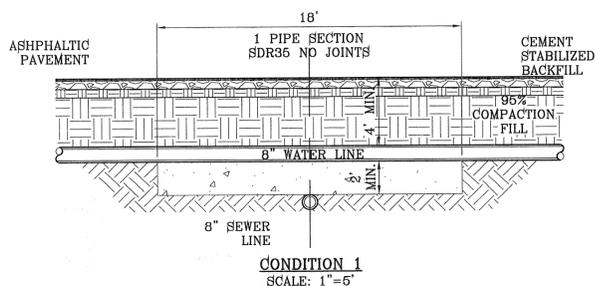
MANHOLE RING	MANHOLE - ALL TYPES	*MANHOLE TYPE A, A1, A2 & C
A	33"	25 1/2"
B	31 3/4"	24 1/8"
C	31 1/2"	23 3/8"
D	30"	22 1/2"
E	29 1/2"	22"
F	26"	19 1/8"
WEIGHT	220 lbs.	170 lbs.

\*OBSOLETE - DO NOT USE (FOR REFERENCE ONLY)



- GENERAL NOTES:**
- MANHOLE CONNECTOR SHALL BE KOR-N-SEAL OR EQUAL MEETING THE REQUIREMENTS OF ASTM C-923. CONNECTOR SHALL BE FURNISHED BY CONTRACTOR.

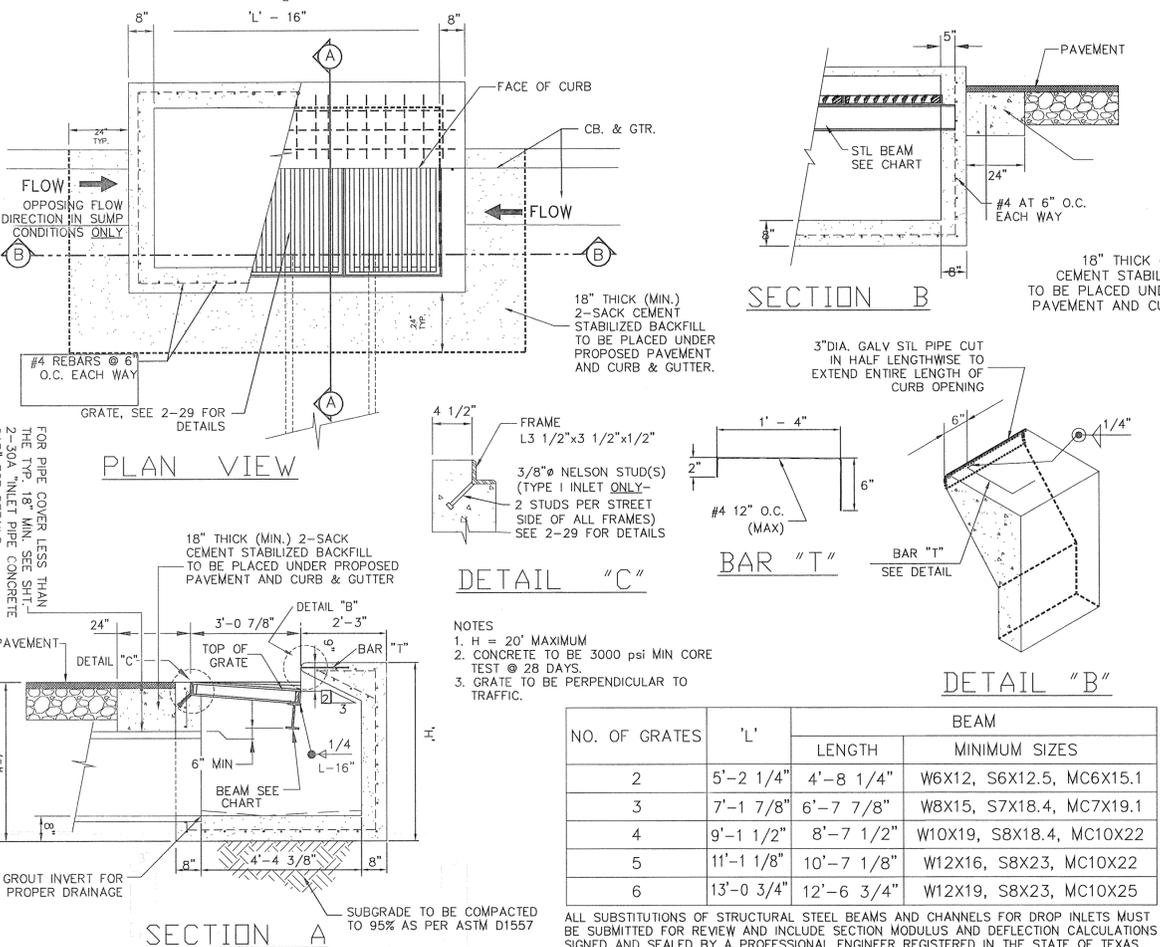
- CONSTRUCTION KEY NOTES:**
- PRECAST MANHOLE BARREL.
  - FLEXIBLE CONNECTOR.
  - PIPE CLAMP SS 316.
  - APPROVED PIPE.
  - PRECAST MANHOLE BASE.
  - GROUT AS REQUIRED TO FORM SMOOTH CHANNEL TO MANHOLE INVERT.
  - PIPE OPENINGS/KNOCKOUTS AS REQUIRED TO FIT PIPE SIZE.
  - EXPANSION BAND SS 316.
  - FILL SPACE WITH GROUT.



CITY MONUMENT AT THE CENTERLINE INTERSECTION OF COPPER CANYON DRIVE AND COPPER MINE LAKE ELEVATION 4007.42	BY	
	REVISIONS	
	DATE	04/19/13
	2ND SET OF CITY COMMENTS	
PROJECT NAME	MESQUITE HILLS UNIT SEVEN	
ENGINEER'S SEAL	CONDE INC.	
ENGINEER'S SEAL NOT REQUIRED. THIS SHEET IS PRODUCED BY THE SUBDIVISION DESIGN STANDARDS	DESIGN BY: YC INITIATED BY: RR CHECKED BY: YC & FC JOB NO.: 512-24	
SCALES	HORIZ: --- VERT: --- DATE: DEC. 2012 DESIGN BY: YC INITIATED BY: RR CHECKED BY: YC & FC JOB NO.: 512-24	
	CITY DEVELOPMENT DEPARTMENT	
	REVIEWED	
	EL PASO WATER UTILITY DETAILS NUMBERS: 180, 370-1, 376, 377, 378, 391	
	MESQUITE HILLS UNIT SEVEN	
	SHT 76 OF 80	

FILE S:\Subdivisions\MESQUITE HILLS 7\DWG\AS NOTES AND DETAILS PLOTTED Thursday, May 01, 2014 4:57:03 PM

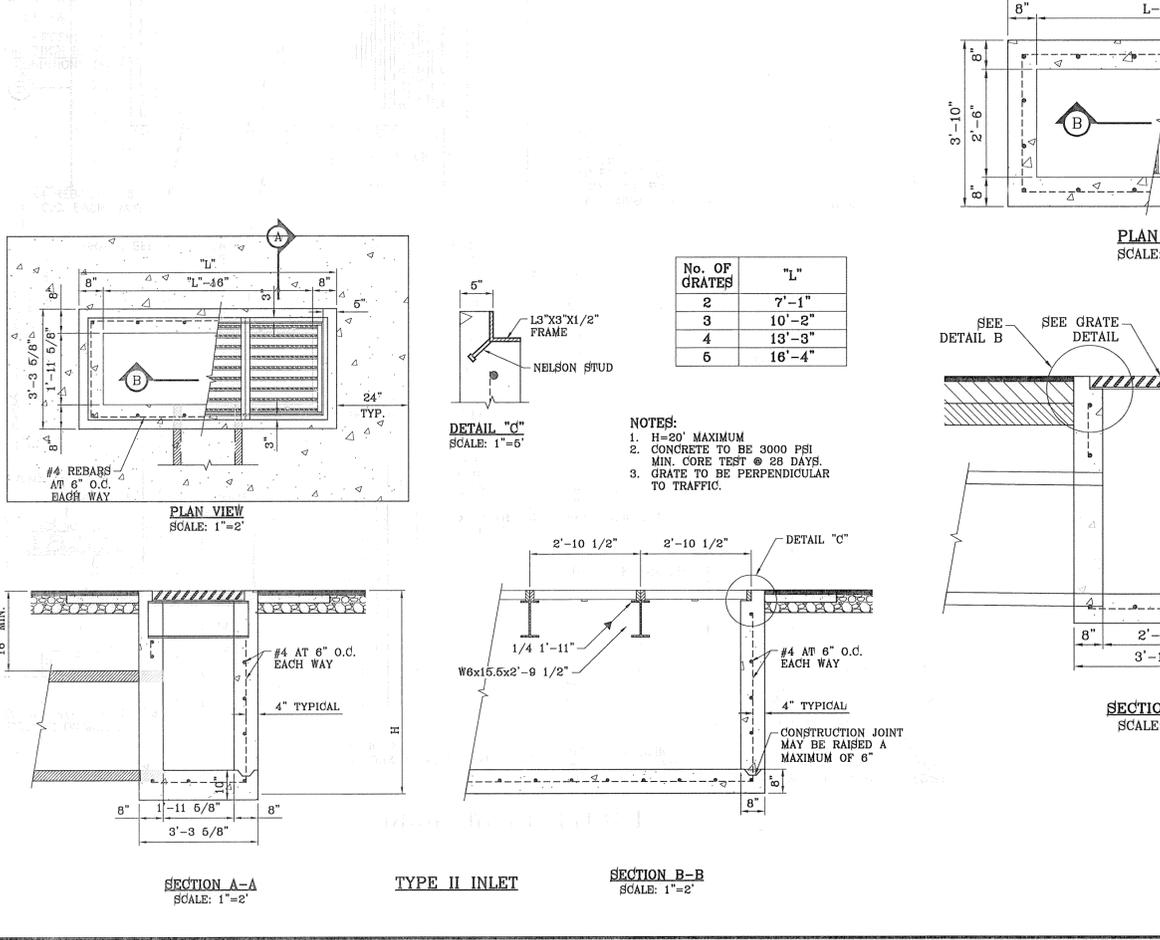
FILE S:\Subdivisions\MESQUITE HILLS 7NDV\DETAILS STR PLOTTED Thursday, May 01, 2014 4:57:11 PM



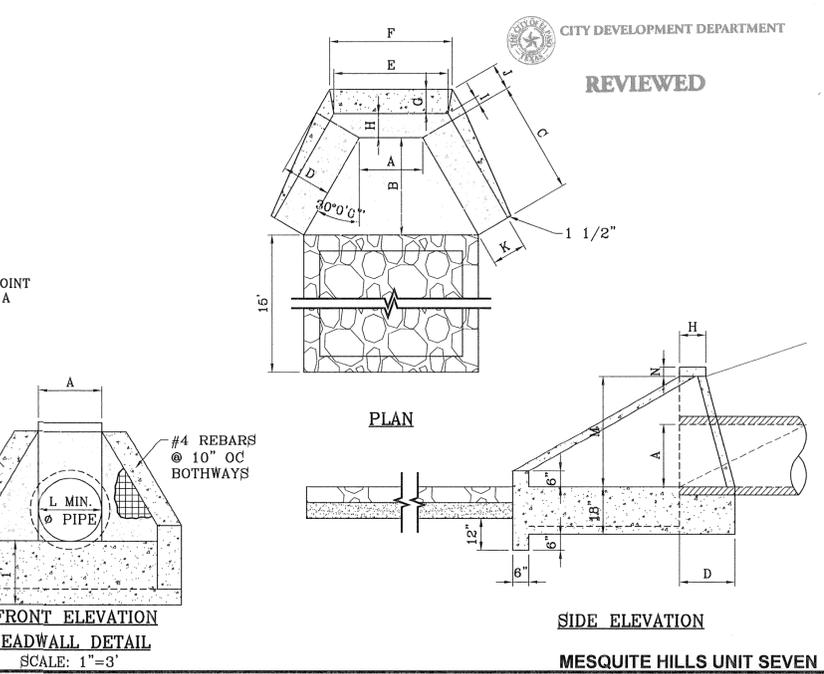
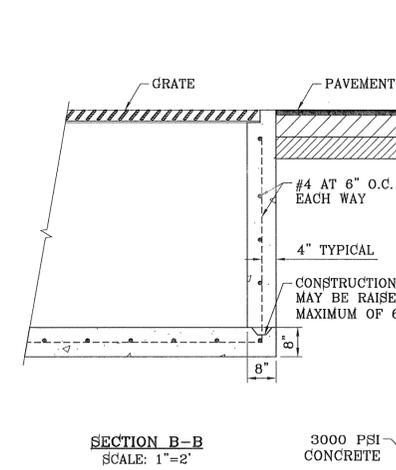
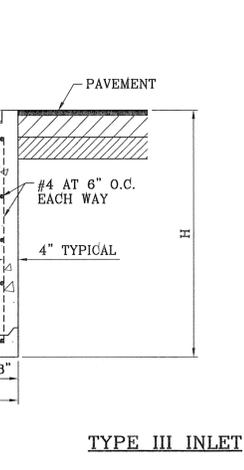
### THRUST BLOCK DIMENSION CALCULATIONS

DATA INPUT FROM STROMCAD & STRUCTURES								THRUST BLOCK DIMENSIONS									
Struct. no.	Pipe size	CFS (total)	Velocity (v)	Depth (d)	g	froud	W/D (from chart)	W	H (3/4)	L (4/3)	A (1/2)	b (3/8)	c (1/2)	d (1/6)	e (1/12)	f (1/12)	t (1/12)
1	48	107.66	8.57	1.14	32.2	1.414	3.50	5'-0"	3'-9"	6'-7 3/4"	2'-6"	1'-10 1/2"	2'-6"	0'-10"	0'-6"	0'-8"	0'-8"
2	30	45.11	9.59	0.88	32.2	1.802	4.0	3'-6 1/4"	2'-7 3/4"	4'-8 1/4"	1'-9"	1'-3 3/4"	1'-9"	0'-7"	0'-6"	0'-8"	0'-8"

### DROP INLET TYPE I



No. OF GRATES	L
1	3'-2 5/8"
2	5'-2 1/4"
3	7'-1 7/8"
4	9'-1 1/2"
5	11'-1 1/8"
6	13'-0 3/4"
7	15'-0 3/8"
8	17'-0"
9	18'-11 5/8"
10	20'-11 1/4"
11	22'-10 7/8"
12	24'-10 1/2"



BENCHMARK  
CITY MONUMENT AT THE CENTERLINE INTERSECTION OF  
CONDE CHANAY DRIVE AND COPPER CITY DATUM  
ELEVATION 4007.42

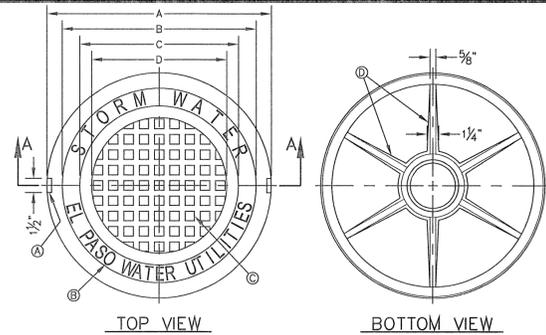
REVISIONS  
DATE 12/16/11 CITY COMMENTS  
R.R. 2ND SET OF CITY COMMENTS  
DATE 04/19/13

PROJECT NAME  
**MESQUITE HILLS UNIT SEVEN**  
BEING PORTION OF TRACTS 5 AND 6, SECTION 16, BLOCK  
80, TOWNSHIP 11, RANGE 10, COUNTY, TEXAS  
SURVEYED BY: J. J. FARGO, P. L. WOODRUFF, TEXAS  
CONTAINING: 106.78 ACRES

SCALE  
HORIZ: N/A  
VERT: ---  
DATE: DEC. 2012  
DESIGN BY: YC  
INITIATED BY: RR  
CHECKED BY: YC & FC  
JOB NO.: 512-24

ENGINEER'S SEAL  
CONDE INC.  
ENGINEERING / PLANNING  
SURVEYING / GPS  
6080 SURETY DR. SITE 100  
EL PASO, TEXAS 79905  
PHONE: (915) 592-0283  
FAX: (915) 592-0286

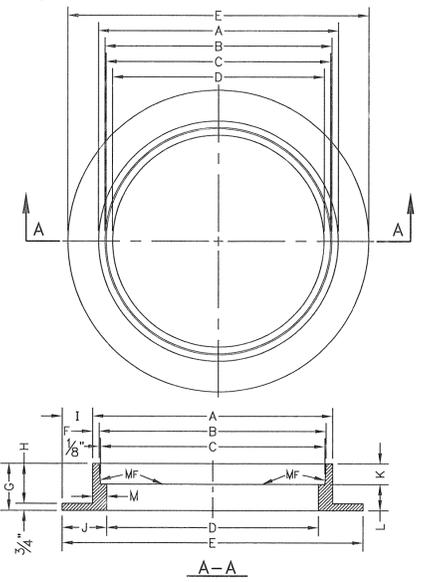
SHEET TITLE  
**STRUCTURE DETAILS**  
SHT 77 OF 80



- GENERAL NOTES:**
1. MATCHING SURFACES MARKED "MF" TO BE FINISHED OF ANY IRREGULARITIES THAT WOULD PREVENT A SNUG FIT.
  2. CASTING TO BE SMOOTH & VOID OF AIR HOLES.
  3. CASTING MUST MEET REQUIREMENTS OF AASHTO M306-07.
  4. AS-CAST DIMENSIONS MAY VARY 1/8" ± PER FOOT (AASHTO M306-07).
  5. WEIGHT MAY VARY 5% ± (AASHTO M306-07).
  6. SHADED DIMENSIONS IN TABLE FOR REFERENCE ONLY. SOURCE: CITY OF EL PASO DESIGN STANDARDS FOR CONSTRUCTION, DETAIL 2-17.

- CONSTRUCTION KEY NOTES:**
- A. LIFTING NOTCH.
  - B. 3/8" RAISED LETTERING.
  - C. 1" SQUARES (3/8" TALL) WITH 3/8" SPACE BETWEEN.
  - D. REINFORCING RIBS.
  - E. SLOT.

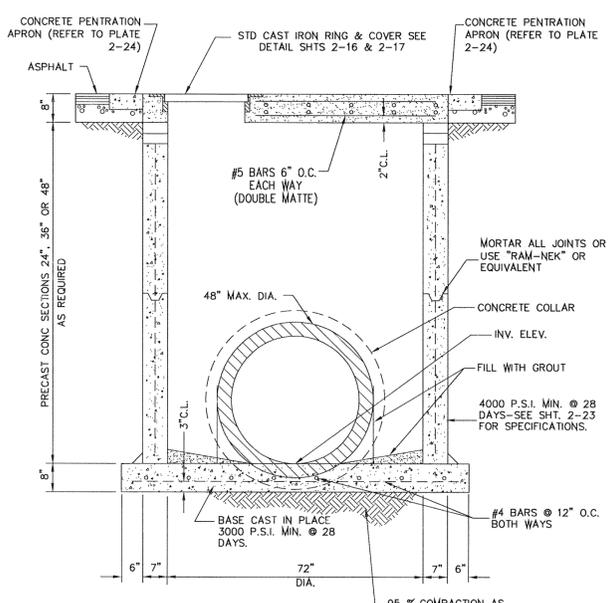
MANHOLE COVER	MANHOLE - ALL TYPES	MANHOLE - TYPE 48"	MANHOLE - TYPE 72"
A	31 3/8"	23 3/8"	31 3/8"
B	28 1/2"	20 3/8"	28 1/2"
C	24 3/8"	16 3/8"	24 3/8"
D	21 7/8"	14 3/8"	21 7/8"
E	2 1/8"	3"	3"
F	1/4"	1 1/4"	1 1/4"
G	3 3/8"	3"	3"
H	1 1/8"	1"	1"
WEIGHT	265 lbs.	175 lbs.	310 lbs.



- GENERAL NOTES:**
1. MATCHING SURFACES MARKED "MF" TO BE FINISHED OF ANY IRREGULARITIES THAT WOULD PREVENT A SNUG FIT.
  2. CASTING TO BE SMOOTH & VOID OF AIR HOLES.
  3. CASTING MUST MEET REQUIREMENTS OF AASHTO M306-07.
  4. AS-CAST DIMENSIONS MAY VARY 1/8" ± PER FOOT (AASHTO M306-07).
  5. WEIGHT MAY VARY 5% ± (AASHTO M306-07).
  6. SHADED DIMENSIONS IN TABLE FOR REFERENCE ONLY. SOURCE: CITY OF EL PASO DESIGN STANDARDS FOR CONSTRUCTION, DETAIL 2-16.

MANHOLE RING	MANHOLE - ALL TYPES	MANHOLE - TYPE 48"	MANHOLE - TYPE 72"
A	33"	25 1/4"	32 1/4"
B	31 3/4"	23 3/8"	31 3/8"
C	31 1/2"	23 3/8"	31 3/8"
D	30"	22 1/2"	30"
E	39 1/2"	34 1/2"	42"
F	9 1/2"	1 1/2"	1 1/2"
G	5"	6"	6"
H	4 1/4"	5 1/4"	5 1/4"
I	3 1/4"	4 1/8"	4 1/8"
J	4 3/4"	6"	6"
K	2 3/8"	3 1/8"	3 1/8"
L	2 1/8"	2 1/8"	2 1/8"
M	1 1/2"	1 3/8"	1 3/8"
WEIGHT	220 lbs.	165 lbs.	225 lbs.

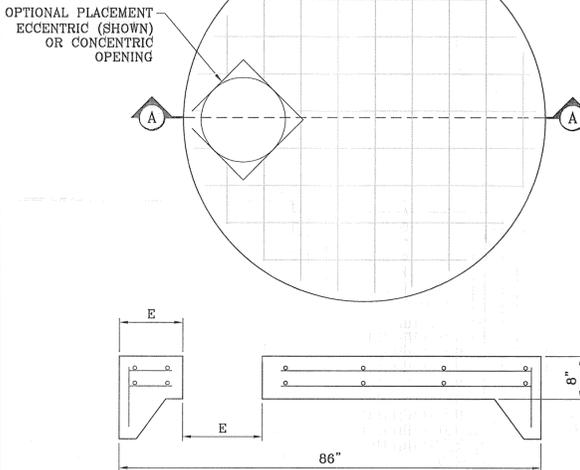
SEE SHT 2-23 FOR STANDARD PRECAST MANHOLE SPECIFICATIONS



72" DIAMETER PRECAST MANHOLE SECTIONS

- GENERAL NOTES:**
1. MANHOLE TYPE "S-A" SHALL BE USED FOR LINES 24" AND SMALLER.
  2. PRE-CAST MANHOLE SECTIONS SHALL BE OF REINFORCED CONCRETE CONFORMING TO ASTM C-478 AND SHALL MEET HS-20 LOADING. PROVIDE REINFORCEMENT WITHIN 3" OF OPENINGS OR KNOCKOUTS, OPENINGS (UP TO 8") MADE IN FIELD SHALL BE CORE DRILLED.
  3. CEMENT SHALL BE TYPE I-II, PER ASTM C-150, AND MUST CONTAIN A MINIMUM OF 4% FLY ASH OF THE TOTAL MANHOLE WEIGHT.
  4. THE BASE & RISER SHALL BE INTEGRALLY CAST. CONCRETE SHALL BE MIN. 28 DAY COMPRESSIVE STRENGTH 4000psi.
  5. MANUFACTURER TO PROVIDE LIFTERS OF ADEQUATE SIZE AS NEEDED.
  6. THE SUBGRADE UNDER THE BASE SHALL BE COMPACTED TO 95% DENSITY IN ACCORDANCE WITH ASTM D-1557.
  7. MANHOLES BELOW GROUNDWATER TO BE EXTERNALLY AND INTERNALLY COATED WITH BITUMINOUS COATING.

- CONSTRUCTION KEY NOTES:**
- A. MANHOLE RING AND COVER (SEE DETAILS 916 & 917). SET FRAME AND COVER FLUSH WITH ROADWAY SURFACE OR FINISHED GRADE (SEE DETAIL 185).
  - B. ALL JOINTS TO BE TONGUE, GROOVE AND SEALED WITH MORTAR OR RAM-NEK (OR APPROVED EQUAL).
  - C. PIPE OPENINGS/KNOCKOUTS AS REQUIRED TO FIT PIPE SIZE AND SHALL HAVE FLEXIBLE PIPE TO MANHOLE CONNECTORS (COMPRESSION TYPE ASTM-923), "KOR-N-SEAL" OR APPROVED EQUAL (SEE DETAIL 926-1).
  - D. GROUT AS REQUIRED.
  - E. CONCRETE BASE SHALL BE 8" FOR MH'S UP TO 12' DEEP AND 12" FOR DEPTHS GREATER THAN 12'.

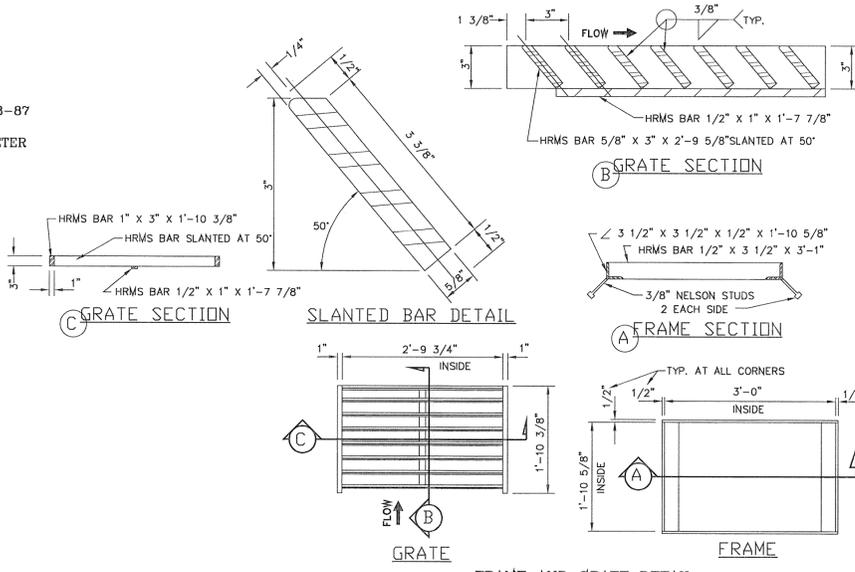


CONSTRUCTION KEY NOTES:

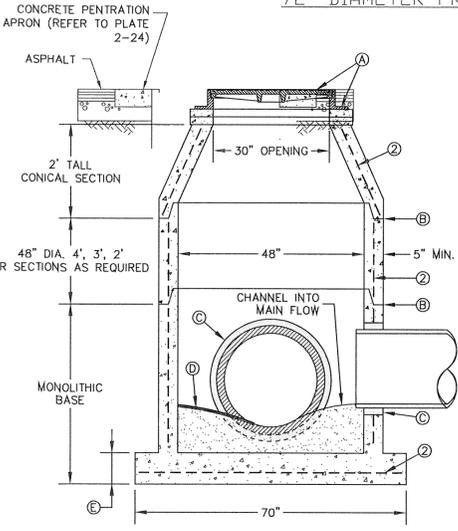
- A. 4000 P.S.I. CONCRETE 28 DAYS.
- B. KEYLOCK ADDS 8" TO VERTICAL HEIGHT
- C. RING AND COVER OR SPECIAL LIDS TO MEET REQUIREMENTS. MAY BE CAST IN PLACE.
- D. REINFORCING SHALL MEET A.S.T.M. C478-87 AND TRAFFIC LOADING (HS-20).
- E. SIZE TO ACCOMMODATE TYPE 72" DIAMETER MANHOLE RING

GENERAL NOTES:

1. ALL JOINTS TO BE TONGUE AND GROOVE AND SEALED WITH RAM-NEK OR EQUAL.
2. MANUFACTURER TO PROVIDE LIFTERS OF ADEQUATE SIZE AS NEEDED.



FRAME AND GRATE DETAIL SCALE: NTS



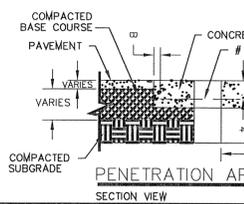
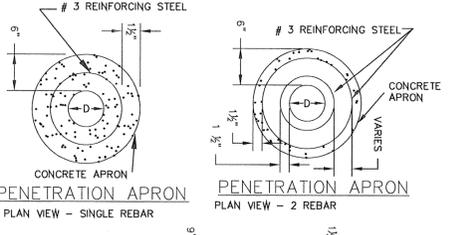
SECTION

STORMWATER MANHOLE TYPE "S-A"

"D" DIAMETER OF PENETRATION (INCHES)	"A" CONCRETE HORIZONTAL DIMENSION FROM PENETRATION (INCHES)	NUMBER OF NO. 3 REINFORCING STEEL BARS	"B" MINIMUM CLEARANCE FROM EDGE OF CONCRETE APRON TO CENTER OF NEAREST REBAR (INCHES)	"C" MINIMUM CLEARANCE FROM PENETRATION EDGE TO CENTER OF NEAREST REBAR (INCHES)
0 TO 6 1/8	6	1	1 1/2	1 1/2
6 1/8 TO 18 1/8	9	2	1 1/2	1 1/2
18 1/8 AND OVER	12	3	1 1/2	1 1/2

- CONSTRUCTION NOTES:**
1. ANY DISTURBED SUBGRADE UNDER THE CONCRETE APRON SHALL BE COMPACTED TO 95% DENSITY.
  2. ANY DISTURBED SUBGRADE UNDER THE CONCRETE APRON SHALL BE COMPACTED TO 100% DENSITY.
  3. PROVIDE A MINIMUM 1 1/2" OF CONCRETE COVER FOR ALL REINFORCEMENT STEEL.
  4. REINFORCING SHALL MEET ASTM C-478 AND TRAFFIC LOADING (HS-20).
  5. NO. 3 REINFORCING STEEL HOOPS SHALL BE SPACED EQUALLY.

- GENERAL NOTES:**
1. THE PENETRATION APRON SHOULD BE CAST IN-PLACE CONCRETE (MINIMUM 28 DAY COMPRESSIVE STRENGTH 4000 PSI. HIGH EARLY CONCRETE IS REQUIRED).
  2. TOPS OF PENETRATION APRON SHALL BE FLUSH WITH ROADWAY SURFACE OR FINISHED GRADE UNLESS OTHERWISE SPECIFIED BY THE CITY ENGINEER.

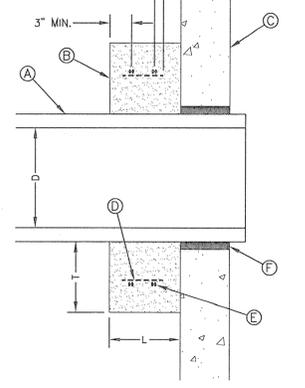


SECTION VIEW

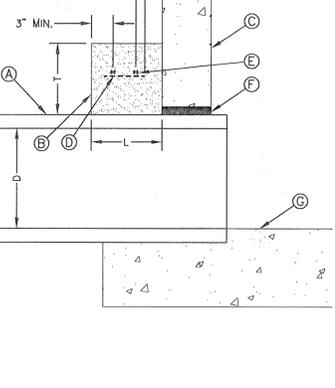
- GENERAL NOTES:**
1. NOT TO BE USED UNDER GROUND WATER CONDITIONS.

72" MANHOLE WITH CONCRETE COVER SCALE: 1"=1'

- CONSTRUCTION KEY NOTES:**
- A. PROPOSED R.C.P. PIPE.
  - B. CONCRETE COLLAR (3000 PSI CONCRETE).
  - C. INSIDE WALL OF EXISTING MANHOLE OR PRECAST STRUCTURE.
  - D. #4's @ 12" O.C.
  - E. 2-#4 SHRINK GROUT TO BE PLACED BETWEEN EXISTING MANHOLE AND RCP TO COVER ALL GAPS (TYPICAL). THE AREA BETWEEN THE EXISTING MANHOLE/STRUCTURE AND THE RCP SHALL BE 1/2 OF THE WALL THICKNESS OF THE EXISTING STRUCTURE.
  - G. MANHOLE BASE.



CONNECTION AT DROP INLET



CONNECTION AT BASE

LATERAL CONNECTION AT STORMWATER PRECAST JUNCTION BOXES OR EXISTING MANHOLES (CONCRETE COLLAR) 2-28C



REV. OCT 27, 2008 - COR. APPROX

BENCHMARK  
CITY MONUMENT AT THE CENTERLINE INTERSECTION OF COPPER CANYON DRIVE AND COPPER MINE LANE. ELEVATION 4007.42 ... CITY DATUM  
DATE: 12/6/11  
REVISED: 04/19/13  
BY: R.R.  
R.R.  
CITY COMMENTS  
2ND SET OF CITY COMMENTS

PROJECT NAME  
**MESQUITE HILLS UNIT SEVEN**  
BEING PORTION OF TRACTS 5 AND 6, SECTION 16, BLOCK 80, TOWNSHIP 1, TEXAS AND PACIFIC RAILROAD CO. SURVEYS, CITY OF EL PASO, EL PASO COUNTY, TEXAS  
CONTAINING: 108.76 ACRES

ENGINEER'S SEAL  
NOT REQUIRED  
THIS SHEET IS PRODUCED FROM CITY SUBDIVISION DESIGN STANDARDS  
DESIGNED BY: YC  
CHECKED BY: YC & FC  
JOB NO.: 612-24

CONDE INC.  
ENGINEERING / PLANNING  
SURVEYING / GFS  
6080 SURETY DR. STE 100  
EL PASO, TEXAS 79905  
PHONE: (915) 692-0283  
FAX: (915) 692-0286

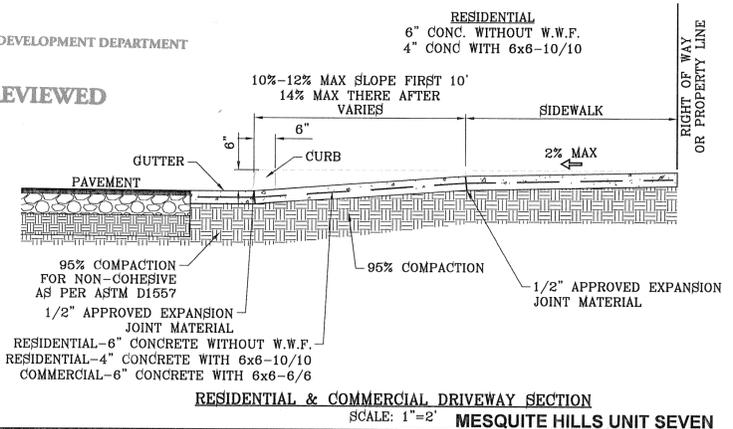
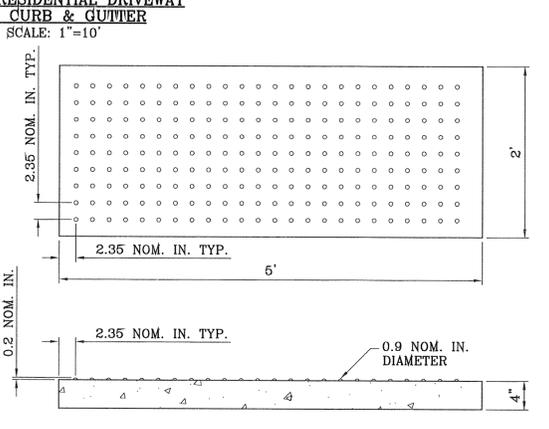
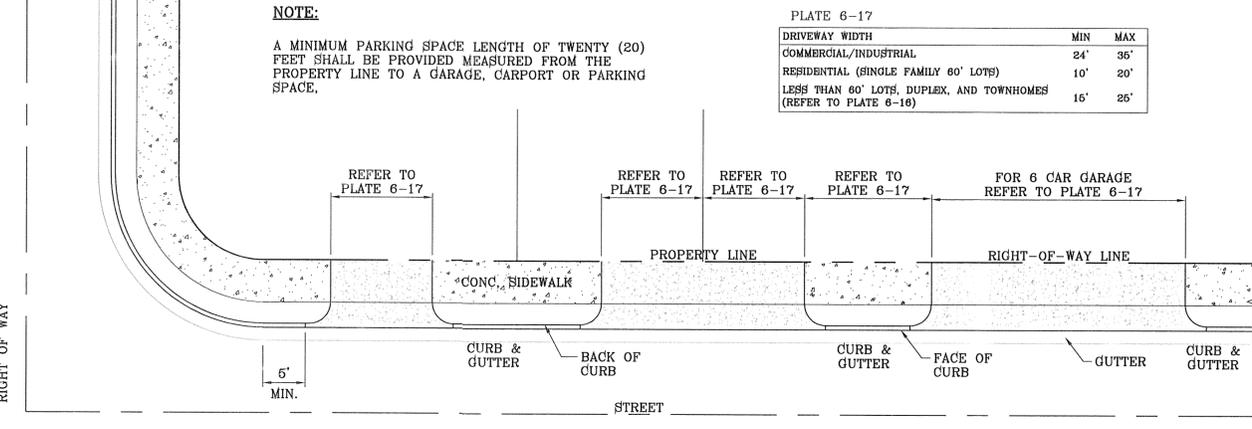
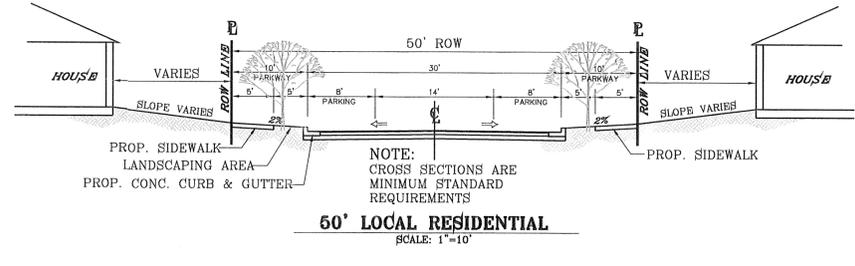
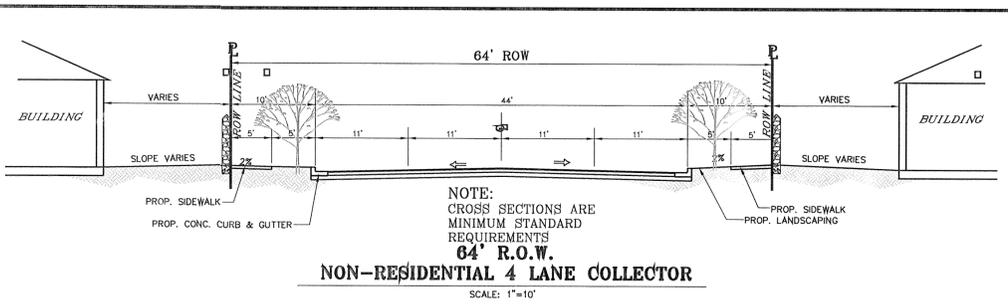
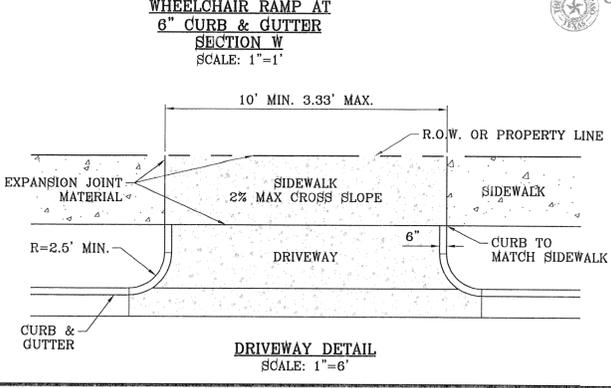
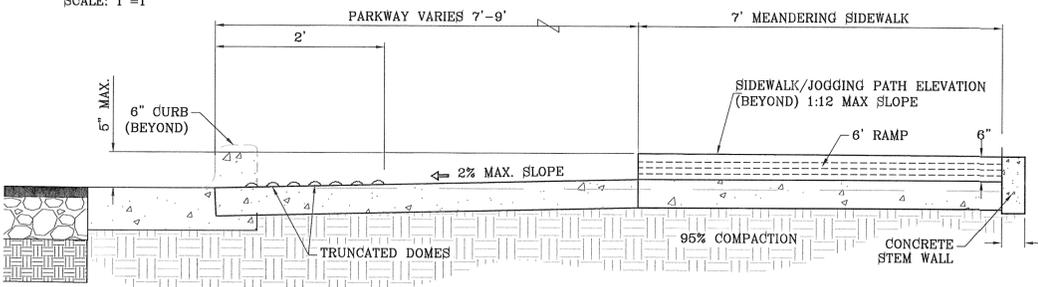
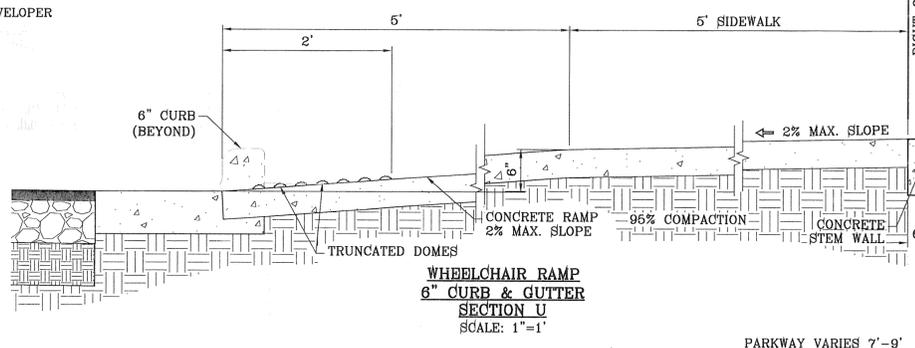
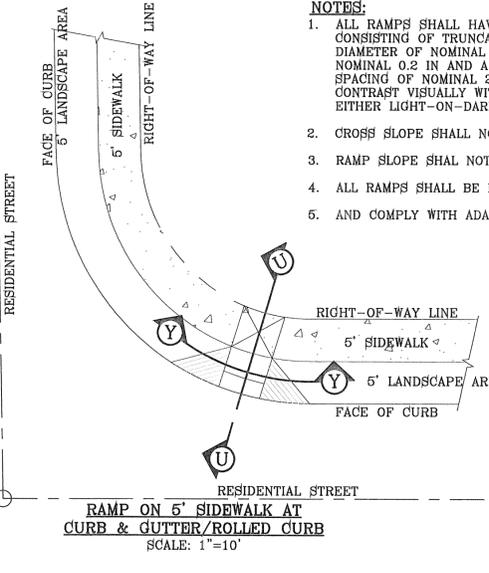
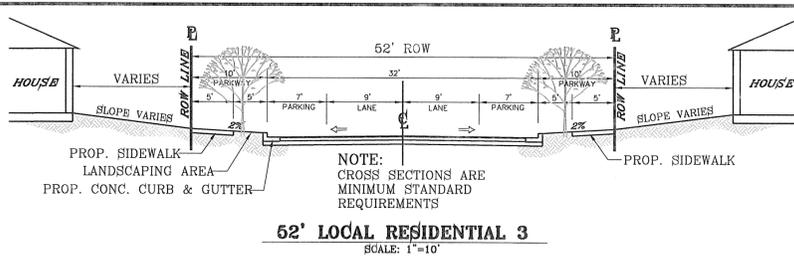
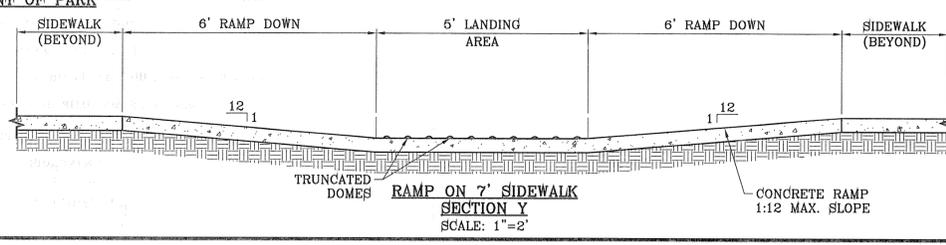
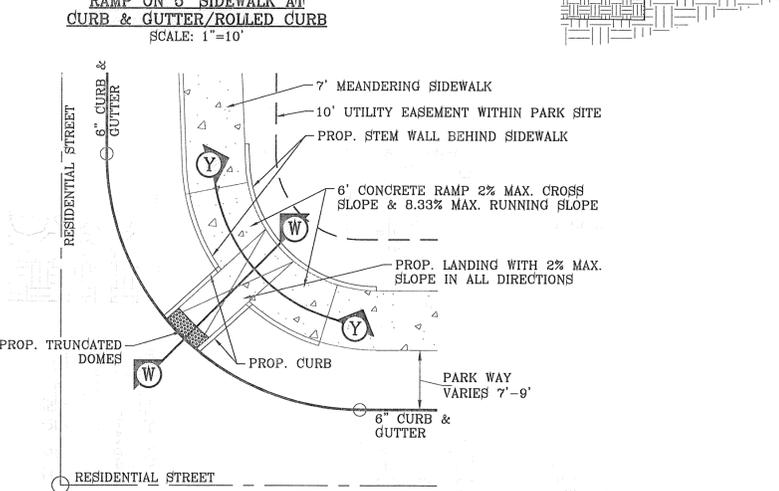
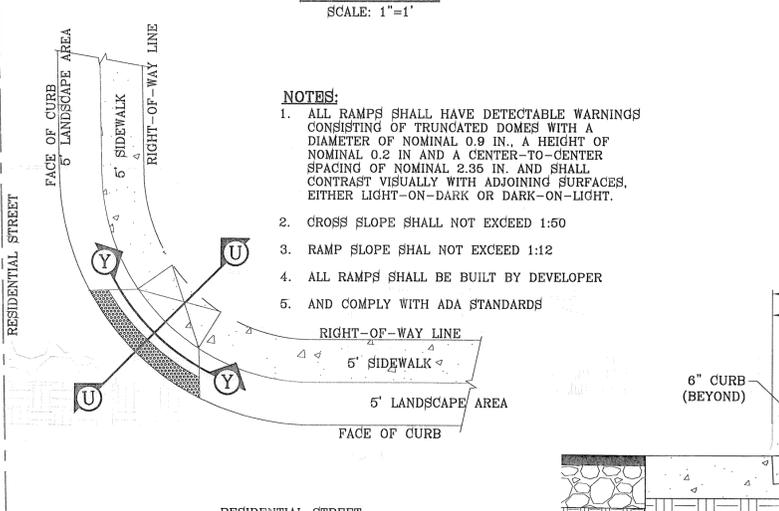
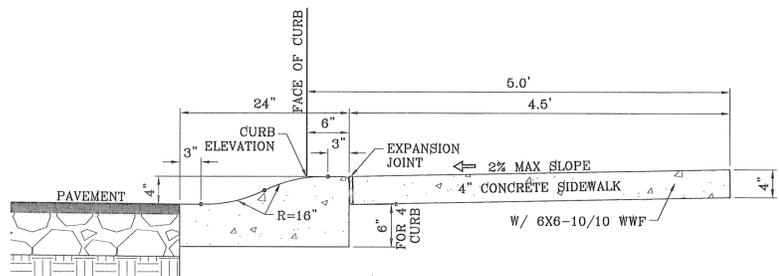
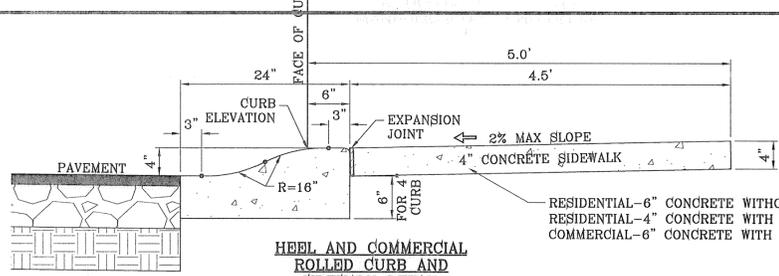


SHEET TITLE

STRUCTURE DETAILS

FILE: S:\Subdivisions\MESQUITE\_HILLS\_TADWGNDETAILS\_STR\_PLOTTED\_Tuesday, May 01, 2012 4:57:15 PM

FILE 53 - Subdivisions\MESQUITE HILLS 7-DWG\DETAIL sheet PLUTTED Thursday, May 01, 2014 4:57:18 PM



- NOTES:**
1. ALL RAMP SHALL HAVE DETECTABLE WARNINGS CONSISTING OF TRUNCATED DOMES WITH A DIAMETER OF NOMINAL 0.9 IN. A HEIGHT OF NOMINAL 0.2 IN AND A CENTER-TO-CENTER SPACING OF NOMINAL 2.35 IN. AND SHALL CONTRAST VISUALLY WITH ADJOINING SURFACES, EITHER LIGHT-ON-DARK OR DARK-ON-LIGHT.
  2. CROSS SLOPE SHALL NOT EXCEED 1:50
  3. RAMP SLOPE SHALL NOT EXCEED 1:12
  4. ALL RAMP SHALL BE BUILT BY DEVELOPER
  5. AND COMPLY WITH ADA STANDARDS

**NOTE:**  
A MINIMUM PARKING SPACE LENGTH OF TWENTY (20) FEET SHALL BE PROVIDED MEASURED FROM THE PROPERTY LINE TO A GARAGE, CARPORT OR PARKING SPACE.

PLATE 6-17

DRIVEWAY WIDTH	MIN	MAX
COMMERCIAL/INDUSTRIAL	24'	36'
RESIDENTIAL (SINGLE FAMILY 60' LOTS)	10'	20'
LESS THAN 60' LOTS, DUPLEX, AND TOWNHOMES	16'	26'

(REFER TO PLATE 6-18)

CITY DEVELOPMENT DEPARTMENT  
REVIEWED

BENCHMARK  
CITY MONUMENT AT THE CENTERLINE INTERSECTION OF COPPER CANYON DRIVE AND COPPER MINE LANE. ELEVATION 4007.42  
DATE  
BY  
REVISIONS  
04/19/13  
2ND SET OF CITY COMMENTS  
R.R.

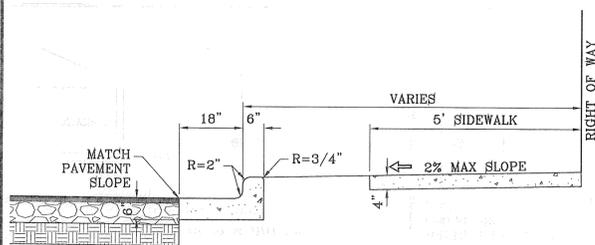
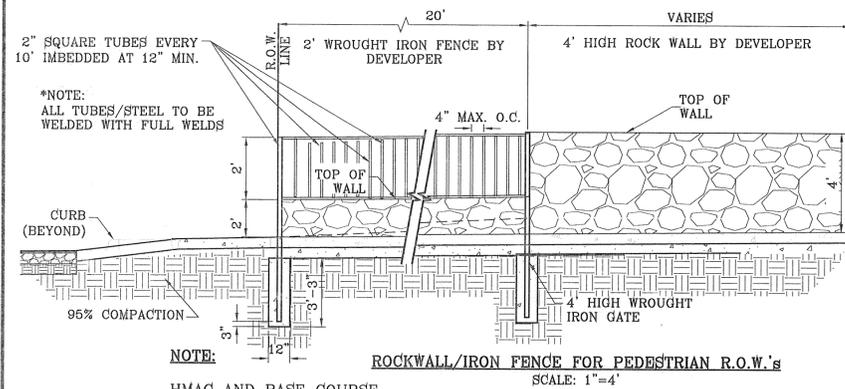
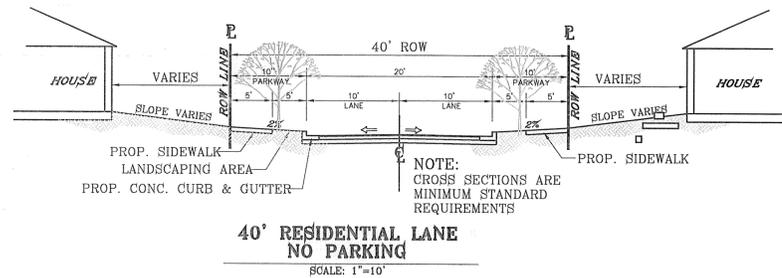
**MESQUITE HILLS UNIT SEVEN**  
BEING PORTION OF TRACTS 5 AND 6, SECTION 16, BLOCK 80, TOWNSHIP 1, TEXAS AND PACIFIC RAILROAD CO. SURVEYS, CITY OF EL PASO, EL PASO COUNTY, TEXAS  
CONTAINING: 108.78 ACRES

ENGINEER'S SEAL  
ENGINEER'S SEAL NOT REQUIRED. THIS SHEET IS PRODUCED BY THE SURVEYING DIVISION DESIGN STANDARDS  
HORIZ: AS NOTED  
VERT: ---  
DATE: DEC. 2012  
DESIGN BY: YC  
INITIATED BY: RR  
CHECKED BY: YC & FC  
JOB NO.: 512-24

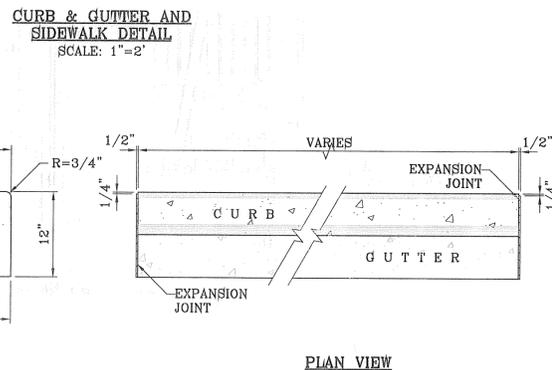
CONDE INC.  
ENGINEERING / PLANNING  
SURVEYING / GPS  
6080 SURVEY DR. STE 100  
EL PASO, TEXAS 79905  
PHONE: (915) 592-0285  
FAX: (915) 592-0286

C  
CONDE INC.  
REGISTRATION No. P-2321

SHEET TITLE  
**STANDARD DETAILS**  
SHT 79 OF 80

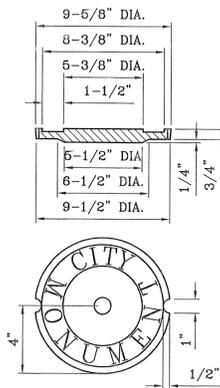
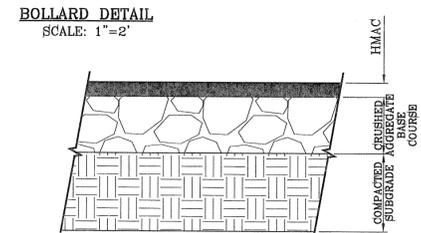
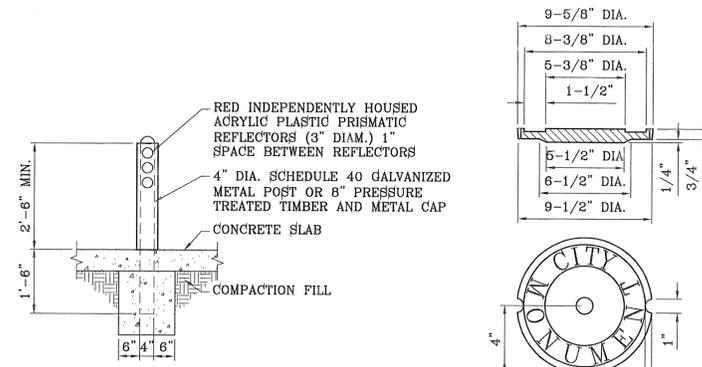


- NOTES:**
- CONCRETE SHALL BE 3000 P.S.I. MINIMUM.
  - DUMMY JOINTS REQUIRED AT 10' O.C. FOR CURB/GUTTER AND 5' O.C. FOR SIDEWALK.
  - EXPANSION MATERIAL REQUIRED AT CURB RETURNS WITH 1/2" PREMOLDED ASPHALT IMPREGNATED EXPANSION MATERIAL OR EQUAL.
  - EXPANSION JOINTS REQUIRED AT 50' O.C. WHEN FORMING FOR CURBS.
  - WHENEVER SIDEWALK ABUTS ROCK OR MASONRY STRUCTURES SUCH AS CURBS OR BUILDINGS, EXPANSION JOINT FILLER SHALL BE USED IN ACCORDANCE WITH STANDARD SPECIFICATIONS.

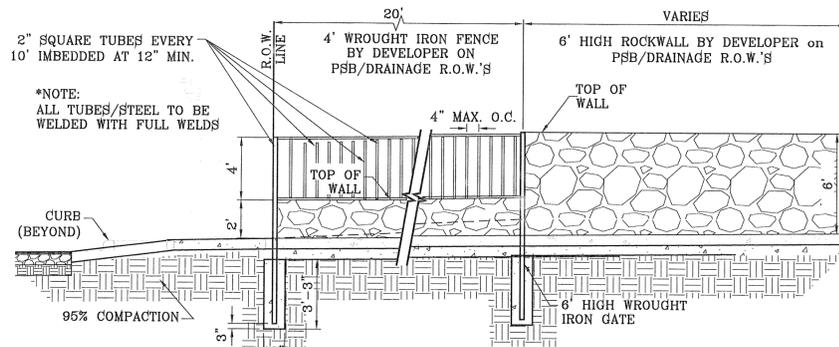
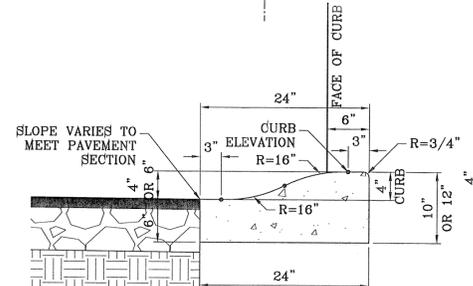
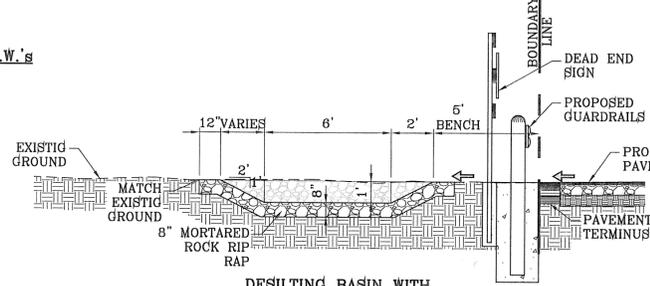
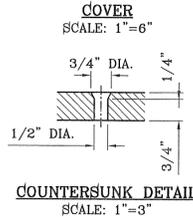


- NOTES:**
- NO EXPANSION JOINT WILL BE REQUIRED EXCEPT AT THE END OF CURB RETURNS. (POINT OF TANGENCY WITH STRAIGHT LINE).
  - CONTRACTION JOINTS (1/2" INCH MIN.) MUST BE SCORD EVERY 10 FEET IN CURB AND GUTTER.
  - ALL EXPANSION JOINTS WILL BE OF PREFORMED BITUMINOUS FIBER 1/2" INCH THICK.
  - CONCRETE: CLASS "A" 3000 PSI.
  - EXPANSION JOINTS REQUIRED AT 5' O.C. WHEN FORMING FOR CURBS.

**CURB & GUTTER DETAIL**  
SCALE: 1"=1'



**PAVEMENT SECTION DETAIL**  
SCALE: 1"=1'



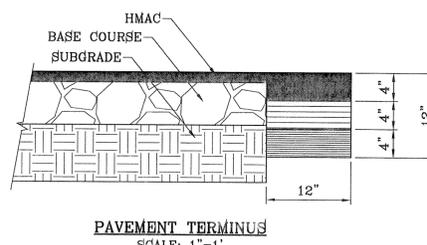
**NOTES:**  
HMAC AND BASE COURSE THICKNESS AS PER CBR'S

**PAVEMENT NOTES**

- SUBGRADE TO BE COMPACTED TO 95% OF MAXIMUM DENSITY AS PER ASTM D1557.
- BASE TO BE COMPACTED TO NOT LESS THAN 100% DENSITY IN ACCORDANCE WITH ASTM D1557, TYPE A, GRADE 1 OR 2.
- BITUMINOUS MATERIAL SHALL CONFORM TO AC-10 OR AC-20, TYPE "C" IN ACCORDANCE WITH ASTM D3318.
- PRIME COAT TO BE 0.25 GAL. PER SQUARE YARD (MINIMUM COVERAGE) MC-70.
- COMPACTION TESTS WHERE REQUIRED BY THE CITY ENGINEER MUST BE PAID FOR BY THE DEVELOPER.
- C.B.R. TESTS WILL BE REQUIRED AT 500 FOOT INTERVALS AFTER SUBGRADE IS PLACED AND/OR A MINIMUM OF TWO TESTS IF STREET IS LESS THAN 600 FEET.
- STRICT VERTICAL CONTROL OF ALL CURB AND GUTTER ELEVATIONS WILL BE MAINTAINED. BLUE TOPPING WILL BE REQUIRED THROUGHOUT.
- ALL PLANS MUST BE IN ACCORDANCE WITH THE LATEST EDITION OF THE CITY OF EL PASO SUBDIVISION DESIGN AND IMPROVEMENT STANDARDS.
- HMAC, BASE, SUB BASE WILL BE IN ACCORDANCE WITH THE LATEST CITY OF EL PASO SPECIFICATIONS.
- MINIMUM PAVEMENT DESIGN DETAILS ARE SHOWN. ACTUAL PAVEMENT DESIGN WILL BE DETERMINED BY: C.B.R.

**TRENCHING**

ALL TRENCHING SHALL BE DONE IN STRICT ACCORDANCE WITH OSHA-2226.



**NOTE:**

THICKENED EDGE SHALL BE CONSTRUCTED IN COURSED NOT OVER 4" IN THICKNESS, EACH COURSE THOROUGHLY COMPACTED BEFORE PLACING NEXT COURSE, FINAL COURSE. FINAL COURSE TO BE PLACED MONOLITHIC WITH PAVEMENT.

**SIZE AND CONSTRUCTION:**

THE STANDARD CITY MONUMENT SHALL BE POURED-IN-PLACE CONCRETE CONE. EIGHT (8) INCHES MINIMUM DIAMETER AT THE TOP, EIGHTEEN (18) INCHES MINIMUM DIAMETER AT THE BOTTOM, THIRTY-SIX (36) INCHES MINIMUM IN DEPTH WITH THE MONUMENT CAP IN PLACE ON TOP.

THE MONUMENT SHALL BE COVERED WITH A CAST IRON BOX AND COVER.

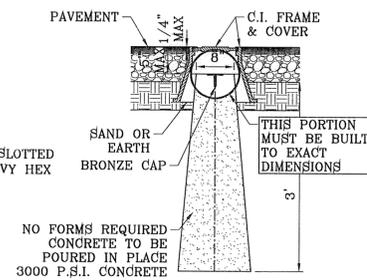
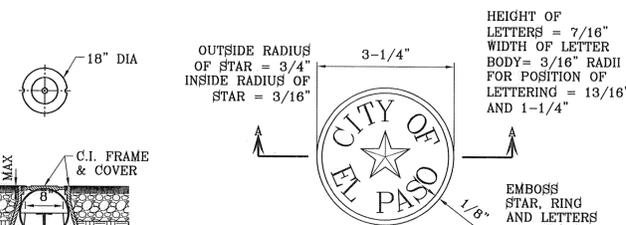
**NUMBER AND LOCATIONS:**

THE MONUMENTS SHALL BE INSTALLED WHERE SHOWN ON THE SUBDIVISION PLAT AS APPROVED BY THE CITY ENGINEER.

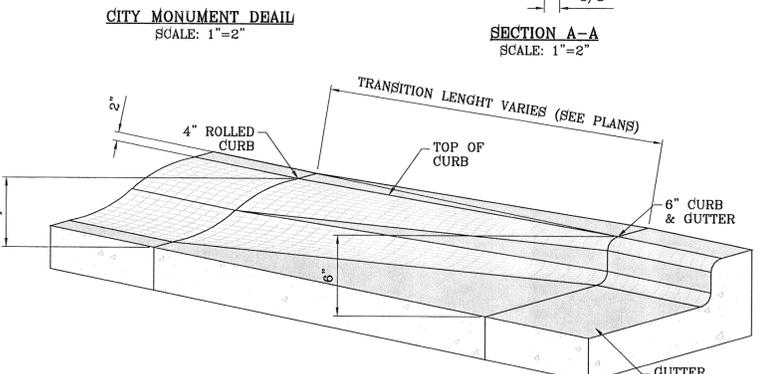
THE SIZE, TOPOGRAPHY AND LAYOUT OF THE SUBDIVISION SHALL GOVERN MONUMENT MUST BE WITHIN THE LINE OF SIGHT OF ANY OTHER MONUMENT (2000 FEET MAXIMUM DISTANCE BETWEEN MONUMENTS). THE NUMBER OF MONUMENTS REQUIRED.

NO FEWER THAN TWO MONUMENTS SHALL BE PLACED IN A ONE STREET SUB-DIVISION.

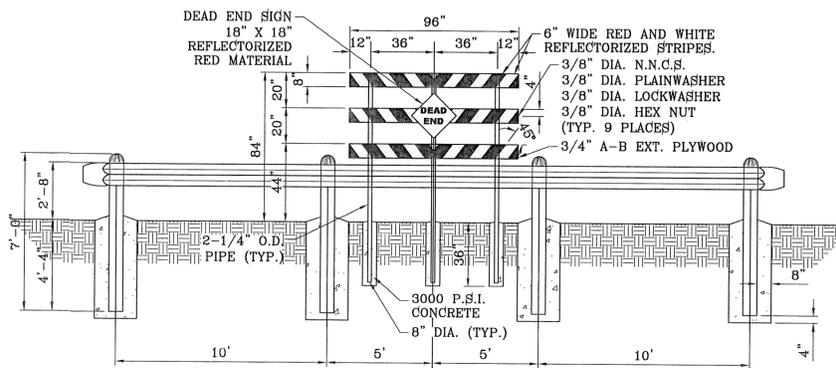
AT LEAST ONE (1) MONUMENT SHALL BE PLACED ON EACH HORIZONTAL CURVE. TWO SHALL BE PLACED IF THE POINT OF INTERSECTION (P.I.) OF THE TANGENTS LEADING INTO THE CURVE FALLS OUTSIDE OF CITY RIGHT-OF-WAY. MONUMENTS SHALL BE INSTALLED SO THAT ALL FRONT PROPERTY CORNERS OF ALL LOTS IN THE SUBDIVISION ARE WITHIN LINE OF SIGHT OF A MONUMENT, OR WITHIN SIGHT OF LINE BETWEEN TWO ADJACENT MONUMENTS.



**SECTION A-A**  
SCALE: 1"=2"



**CURB TRANSITION AT RETURNS**  
SCALE: 1"=1'



**NOTE:**

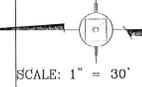
DEAD END SIGN TO BE USED WITH GUARDRAILS. RED AND WHITE PORTIONS TO BE REFLECTIVE SHEETING. DEAD END SIGN MUST COMPLY WITH THE CITY OF EL PASO SUBDIVISION DESIGN STANDARDS.

REVIEWED

MESQUITE HILLS UNIT SEVEN

PROJECT NAME	MESQUITE HILLS UNIT SEVEN
ENGINEER'S SEAL	CONDE INC.
ENGINEER'S SEAL	CONDE INC.
DATE	DEC. 2012
DESIGN BY	YC
INITIATED BY	RR
CHECKED BY	YC & FC
JOB NO.	512-24
DATE	04/19/13
REVISIONS	
BY	
R.R.	
CITY MONUMENT AT THE CENTERLINE INTERSECTION OF COPPER CANYON DRIVE AND COPPER MINE LANE. ELEVATION 4007.42	
CITY DATUM	
CONTAINING: 108.78 ACRES	
BEING PORTION OF TRACTS 5 AND 6, SECTION 16, BLOCK 80, TOWNSHIP 1, TEXAS AND PACIFIC RAILROAD CO. SURVEYS, CITY OF EL PASO, EL PASO COUNTY, TEXAS	

FILE S:\LANDSCAPE\MESQUITE HILLS\DWG\DWG\_PLOTTED.Thursday, May 01, 2014, 4:41:09 PM



SCALE: 1" = 30'



REVIEWED

MESQUITE HILLS UNIT SEVEN

BENCHMARK	
CITY MONUMENT AT THE CENTERLINE INTERSECTION OF COPPER CANYON DRIVE AND COPPER MINE LANE ELEVATION 4007.42 .....	
DATE	REVISIONS
04/14/14	ADDITIONAL INFO ON MESQUITE HILLS PROVIDED
BY	R.R.

PROJECT NAME  
**7073 COPPER TOWN DR.  
MESQUITE HILLS PARK**

BEING ALL OF LOT 9, BLOCK 28, OF MESQUITE HILLS UNIT SEVEN,  
AND ALL OF LOT 1, BLOCK 28, OF MESQUITE HILLS UNIT FOUR,  
CITY OF EL PASO, EL PASO COUNTY, TEXAS CONTAINING: 8.37 ACRES

SCALE	
HORIZ: N.T.S.	VERT: N.T.S.
DATE: DEC. 2012	DESIGN BY: OM
INITIATED BY: RR	CHECKED BY: MM
JOB NO.: 913-21	



**CONDE INC.**  
ENGINEERING / PLANNING  
SURVEYING / GPS  
6080 SURETY DR. STE 100  
EL PASO, TEXAS 79905  
PHONE: (915) 592-0283  
FAX: (915) 592-0286

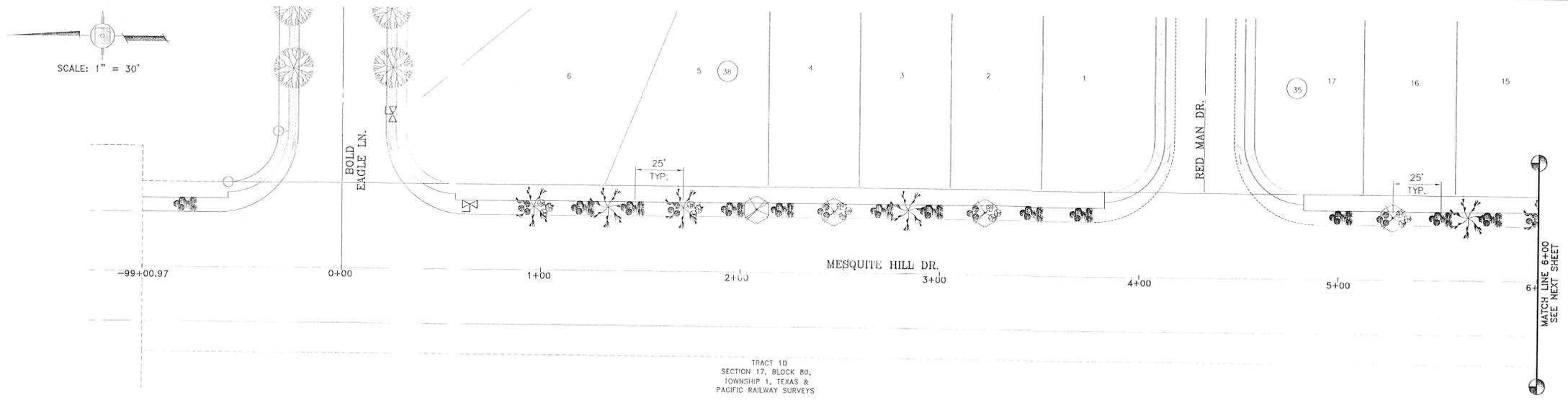


REGISTRATION No. F-2321

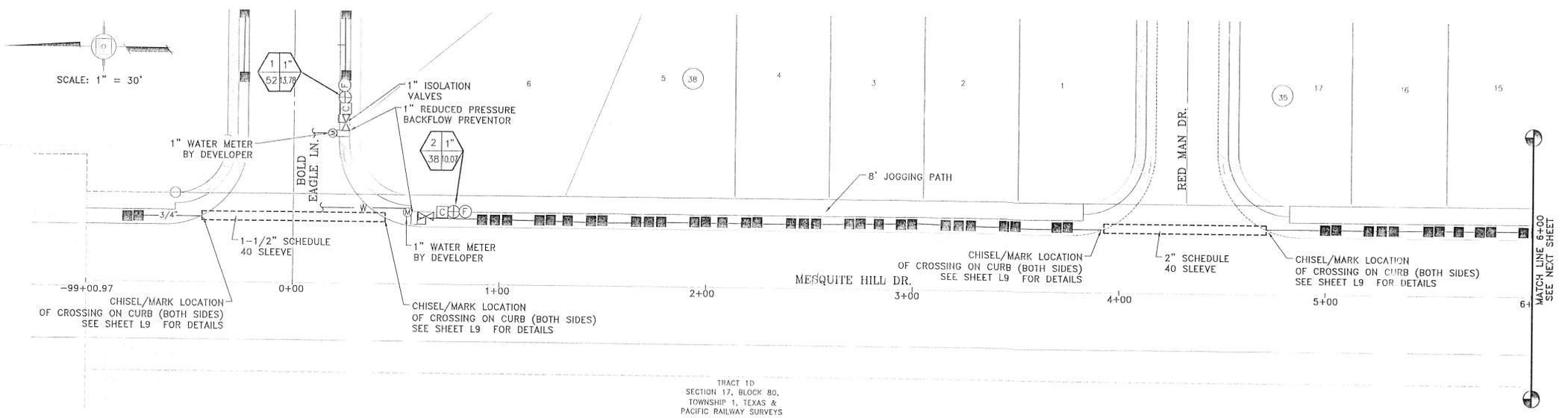
SHEET TITLE

**LANDSCAPE  
LOCATION MAP**

SHT L1 OF L9



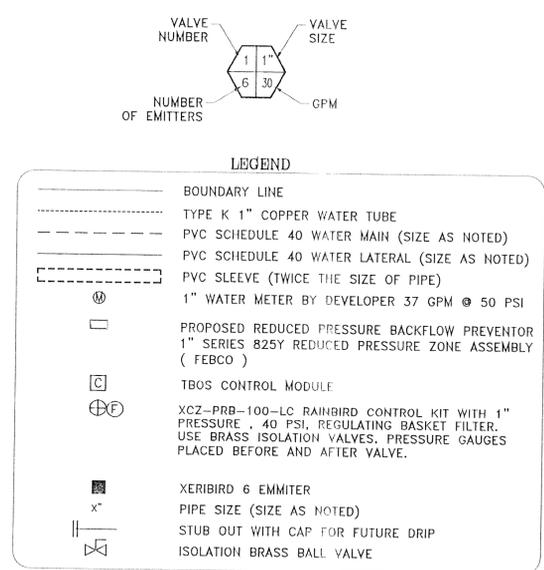
**LANDSCAPE PLAN**



**IRRIGATION PLAN**

**WATER MAIN AND LATERAL NOTES:**  
 WATER MAIN SHOWN IN EXAGGERATED LOCATION FOR CLARITY ON PLAN VIEW PURPOSES ONLY. SEE DETAIL "A" ON THIS SHEET FOR WATER MAIN AND LATERAL LOCATION.  
 2.  
 ALL LATERAL SIZE TO BE 1" UNLESS OTHERWISE NOTED.

COMMON NAME	BOTANICAL NAME	SIZE	QUANTITY
FAN-TEX ASH	FRAXINUS VELUTINA	2" CAL.	13
BRADFORD PEAR	PYRUS CALLERYIANA	2" CAL.	13
OLEANDER PINK	NERIUM OLEANDER	5 GAL.	90
PURPLE SAGE	LEUCOPHYLLUM FRUTESCENS	5 GAL.	90
RED YUCCA	HESPERALOE PARVIFLORA	5 GAL.	42
AUTUMN SAGE	SALVIA GREGGII	5 GAL.	42
PADRE CANYON CHAT, 3" DEPTH WITH DeWitt Pro-5 WEED BARRIER FABRIC TO BE PINNED DOWN AT 3' ON CENTER EACH WAY & AT 12" ON CENTER ALONG PERIMETER, OVERLAP MIN. 12" AT SEAMS			



BENCHMARK  
 CITY MONUMENT AT THE CENTERLINE INTERSECTION OF COPPER CANYON DRIVE AND COPPER MINE LANE. ELEVATION 4007.42  
 DATE 04/11/14  
 REVISIONS  
 BY R.R.  
 R.R. IRRIGATION FOR LOTS 1-2 BLK 35

PROJECT NAME  
**MESQUITE HILL DR. PROPOSED LANDSCAPE AND IRRIGATION - MESQUITE HILLS UNIT 7 HIKE & BIKE TRAIL**  
 BEING ALL OF PROPOSED MESQUITE HILL DR. LANDSCAPING AND IRRIGATION STATIONING PROVIDED BASED OFF OF CENTERLINE INTERSECTION OF MESQUITE HILL DR. AND BOLD EAGLE LN. AS BASE STARTING POINT

SCALE  
 HORIZ: 1" = 30'  
 VERT: 1" = 30'  
 DATE: DEC. 2012  
 DESIGN BY: OM  
 INITIATED BY: RR  
 CHECKED BY: MM  
 JOB NO.: 913-21

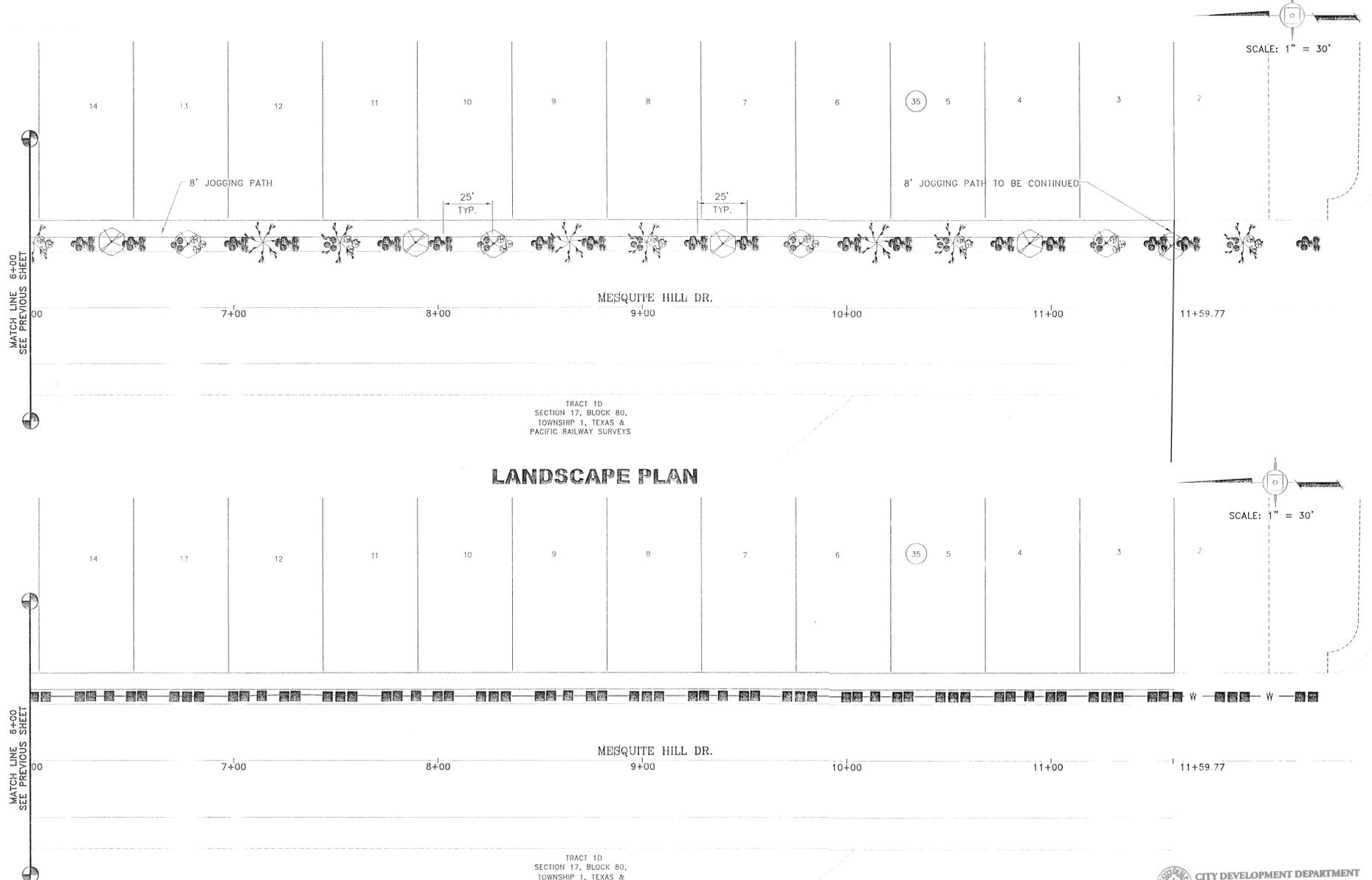


CITY DEVELOPMENT DEPARTMENT  
**REVIEWED**

**CONDE INC.**  
 ENGINEERING / PLANNING / SURVEYING / GPS  
 6080 SURETY DR. STE 100  
 EL PASO, TEXAS 79905  
 PHONE: (915) 592-0283  
 FAX: (915) 592-0286



SHEET TITLE  
**LANDSCAPE AND IRRIGATION**



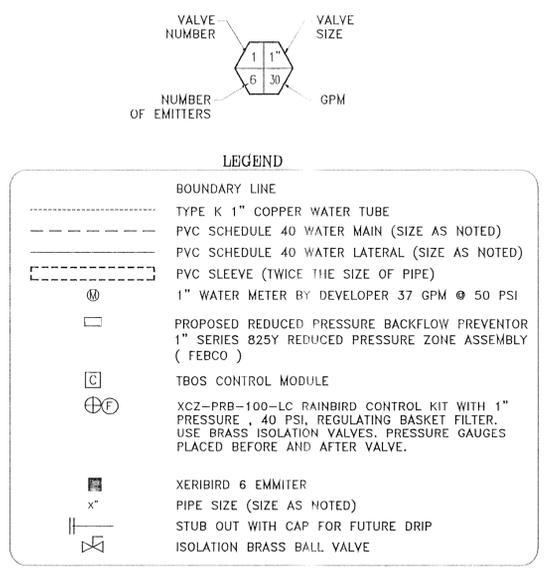
**LANDSCAPE PLAN**

**IRRIGATION PLAN**

**WATER MAIN AND LATERAL NOTES:**  
 WATER MAIN SHOWN IN EXAGGERATED LOCATION FOR CLARITY ON PLAN VIEW PURPOSES ONLY. SEE DETAIL "A" ON THIS SHEET FOR WATER MAIN AND LATERAL LOCATION.  
 2. ALL LATERAL SIZE TO BE 1" UNLESS OTHERWISE NOTED.

COMMON NAME	BOTANICAL NAME	SIZE	QUANTITY
 FAN-TEX ASH	FRAXINUS VELUTINA	2" CAL.	13
 BRADFORD PEAR	PYRUS CALLERYIANA	2" CAL.	13
 OLEANDER PINK	NERIUM OLEANDER	5 GAL.	90
 PURPLE SAGE	LEUCOPHYLLUM FRUTESCENS	5 GAL.	90
 RED YUCCA	HESPERALOE PARVIFLORA	5 GAL.	42
 AUTUMN SAGE	SALVIA GREGGII	5 GAL.	42

 PADRE CANYON CHAT, 3" DEPTH WITH DeWH Pro-5 WEED BARRIER FABRIC TO BE PINNED DOWN AT 3' ON CENTER EACH WAY & AT 12" ON CENTER ALONG PERIMETER, OVERLAP MIN. 12" AT SEAMS



**CITY DEVELOPMENT DEPARTMENT**  
**REVIEWED**

**CONDE INC.**  
 ENGINEERING / PLANNING  
 SURVEYING / GPS  
 6080 SURETY DR. STE 100  
 EL PASO, TEXAS 79905  
 PHONE: (915) 592-0283  
 FAX: (915) 592-0286

**LANDSCAPE AND IRRIGATION**

**SHT L3 OF L9**

**IRRIGATION IS REGULATED BY THE TEXAS COMMISSION ON ENVIRONMENTAL QUALITY, P.O. BOX 13087, AUSTIN, TX 78711-308, (512) 239-6719**

**MESQUITE HILLS UNIT SEVEN**

**REVISIONS**

DATE	REVISIONS
04/14/14	IRRIGATION FOR LOTS 1-2 BLK 35

**BENCHMARK**  
 CITY MONUMENT AT THE CENTERLINE INTERSECTION OF COPPER CANYON DRIVE AND COPPER MINE LAKE. ELEVATION 4007.42.

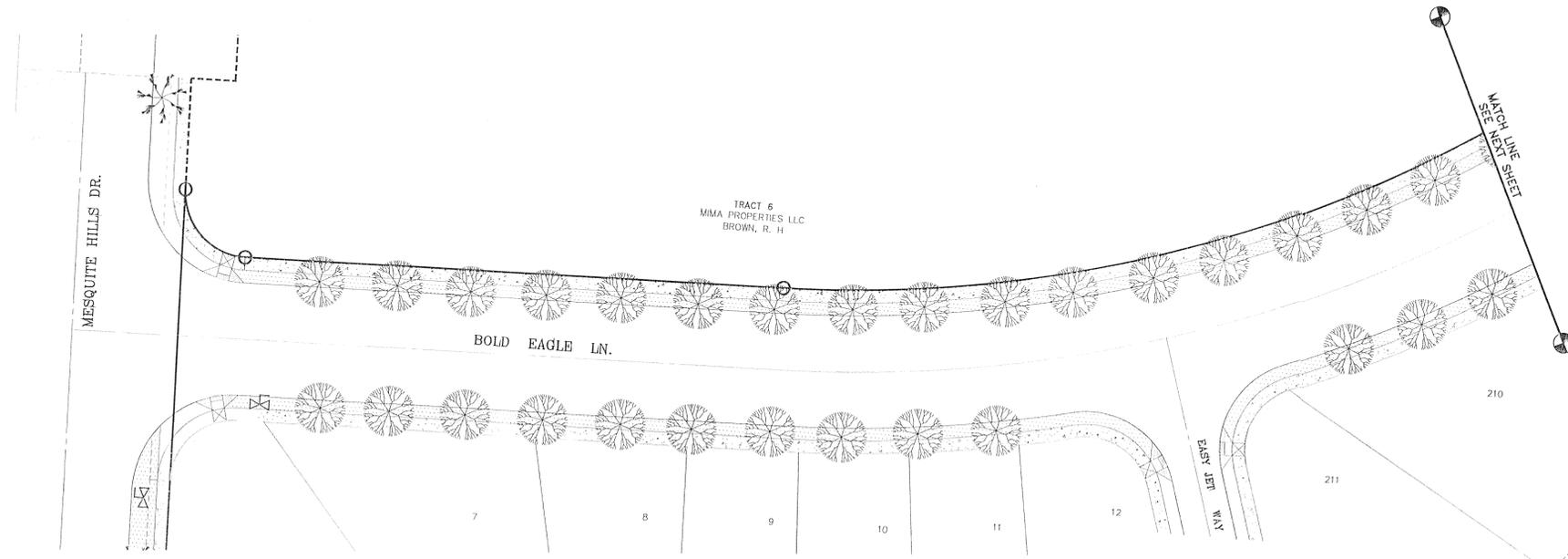
**PROJECT NAME**  
 MESQUITE HILL DR. PROPOSED LANDSCAPE AND IRRIGATION - MESQUITE HILLS UNIT 7 HIKE & BIKE TRAIL

**SCALE**  
 HORIZ: 1" = 30'  
 VERT: 1" = 30'

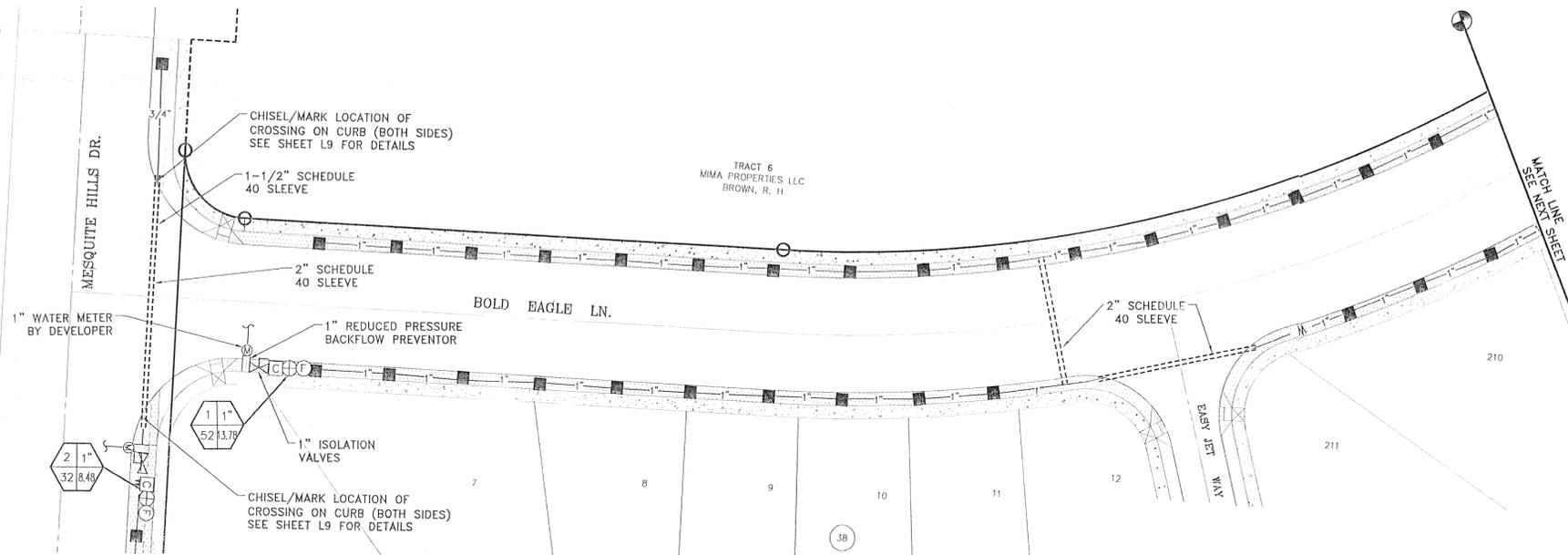
**DATE:** DEC. 2012  
**DESIGN BY:** OM  
**INITIATED BY:** RR  
**CHECKED BY:** MM  
**JOB NO.:** 913-21

FILE: S:\LANDSCAPE\MESQUITE HILLS 7\DM\MESQUITE\_HILLS\_PLOTTED Thursday, May 01, 2014 4:40:52 PM

FILE S:\LANDSCAPE\MESQUITE HILLS 7.DWG BOLD EAGLE PLOTTED Thursday, May 01, 2014 4:41:15 PM

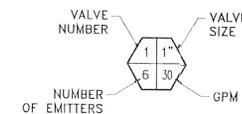


**LANDSCAPE PLAN**



**IRRIGATION PLAN**

COMMON NAME	BOTANICAL NAME	SIZE	QUANTITY	HEIGHT
LIVE OAK	QUERCUS VIRGINIANA	2" GAL.	51	20'
PADRE CANYON CHAT, 3" DEPTH WITH DeWitt Pro-5 WEED BARRIER FABRIC TO BE PINNED DOWN AT 3' ON CENTER EACH WAY & AT 12" ON CENTER ALONG PERIMETER, OVERLAP MIN. 12" AT SEAMS				



**LEGEND**

- BOUNDARY LINE
- TYPE K 1" COPPER WATER TUBE
- PVC SCHEDULE 40 WATER MAIN (SIZE AS NOTED)
- PVC SCHEDULE 40 WATER LATERAL (SIZE AS NOTED)
- PVC SLEEVE (TWICE THE SIZE OF PIPE)
- 1" WATER METER BY DEVELOPER 37 GPM @ 50 PSI
- PROPOSED REDUCED PRESSURE BACKFLOW PREVENTOR 1" SERIES 825Y REDUCED PRESSURE ZONE ASSEMBLY ( FEBCO )
- TBOS CONTROL MODULE
- XCZ-PRB-100-LC RAINBIRD CONTROL KIT
- XERIBIRD 6 EMITTER
- PIPE SIZE (SIZE AS NOTED)
- STUB OUT WITH CAP FOR FUTURE DRIP
- ISOLATION BRASS BALL VALVE

IRRIGATION IS REGULATED BY THE TEXAS COMMISSION ON ENVIRONMENTAL QUALITY, P.O. BOX 13087, AUSTIN, TX 78711-308, (512) 239-6719

**CONDE INC.**  
ENGINEERING / PLANNING / SURVEYING / GPS  
6080 SURETY DR., STE. 100  
ELL PASO, TEXAS 79905  
PHONE: (915) 592-0283  
FAX: (915) 592-0286

**CITY DEVELOPMENT DEPARTMENT**  
REVIEWED

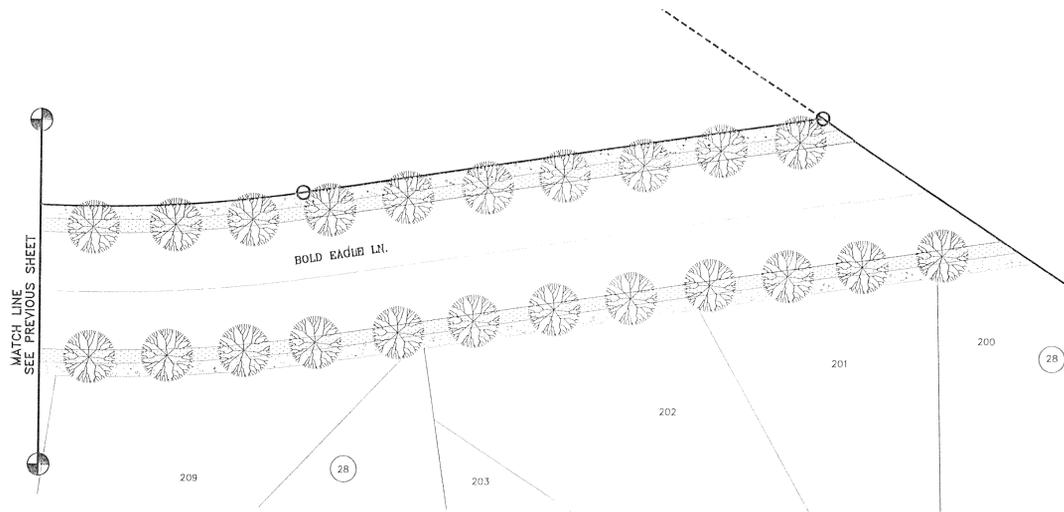
**CONDE INC.**  
REGISTRATION No. F-2321

**LANDSCAPE AND IRRIGATION**

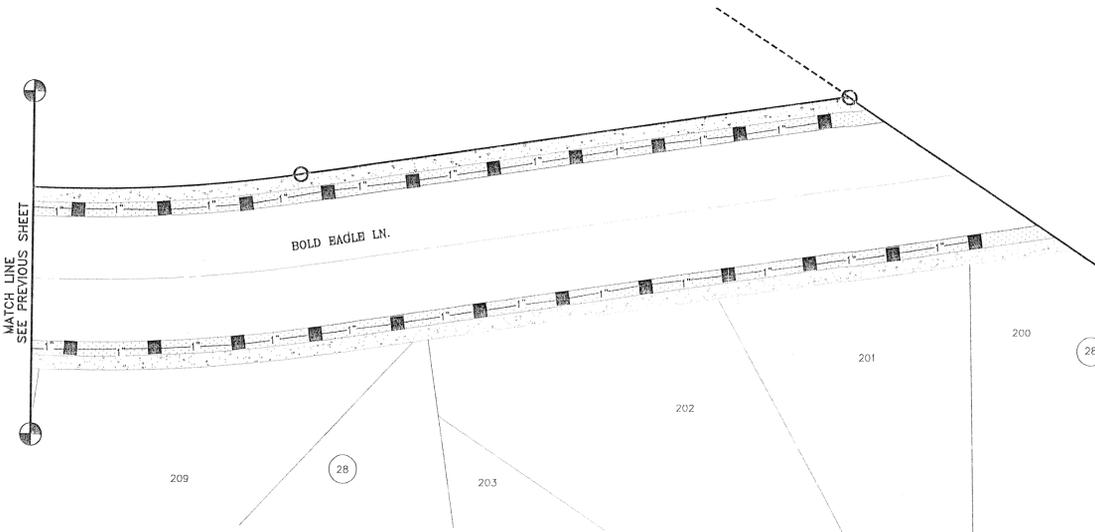
**PROJECT NAME:** MESQUITE HILL DR. PROPOSED LANDSCAPE AND IRRIGATION - MESQUITE HILLS UNIT 7 HIKE & BIKE TRAIL  
**BENCHMARK:** CITY MONUMENT AT THE CENTERLINE INTERSECTION OF COPPER CANYON DRIVE AND COPPER MINE LANE ELEVATION 4007.42 .....CITY DATUM  
**DATE:** 05/15/13  
**REVISIONS:** 05/15/13  
**BY:** R.R.  
**DATE:** 04/14/14  
**REVISIONS:** REVISED METER AND VALVE LOCATIONS  
**BY:** R.R.

**SCALE:** HORIZ: 1" = 30' VERT: 1" = 30'  
**DATE:** DEC. 2012  
**DESIGN BY:** OM  
**INITIATED BY:** RR  
**CHECKED BY:** MM  
**JOB NO.:** XXX-XX

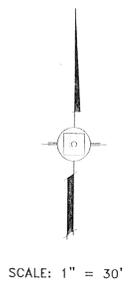
FILE S:\LANDSCAPE\MESQUITE HILLS 7\DWG\GOLD EAGLE PLOTTED Thursday, May 01, 2014 4:41:18 PM



LANDSCAPE PLAN

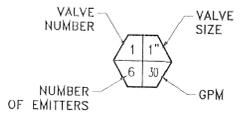


IRRIGATION PLAN



SCALE: 1" = 30'

COMMON NAME	BOTANICAL NAME	SIZE	QUANTITY	HEIGHT
 LIVE OAK	QUERCUS VIRGINIANA	2" GAL.	51	20'
	PADRE CANYON CHAT, 3" DEPTH WITH DeWitt Pro-5 WEED BARRIER FABRIC TO BE PINNED DOWN AT 3' ON CENTER EACH WAY & AT 12" ON CENTER ALONG PERIMETER, OVERLAP MIN. 12" AT SEAMS			



LEGEND	
---	BOUNDARY LINE
- - - - -	TYPE K 1" COPPER WATER TUBE
—	PVC SCHEDULE 40 WATER MAIN (SIZE AS NOTED)
— — — — —	PVC SCHEDULE 40 WATER LATERAL (SIZE AS NOTED)
- - - - -	PVC SLEEVE (TWICE THE SIZE OF PIPE)
	1" WATER METER BY DEVELOPER 37 GPM @ 50 PSI
	PROPOSED REDUCED PRESSURE BACKFLOW PREVENTOR 1" SERIES 825Y REDUCED PRESSURE ZONE ASSEMBLY ( FEBCO )
	TBOS CONTROL MODULE
	XCZ-PRB-100-LC RAINBIRD CONTROL KIT
	XERIBIRD 6 EMMITER
	PIPE SIZE (SIZE AS NOTED)
	STUB OUT WITH CAP FOR FUTURE DRIP ISOLATION BRASS BALL VALVE



BENCHMARK	
CITY MONUMENT AT THE CENTERLINE INTERSECTION OF COPPER CANYON DRIVE AND COPPER WINE	
ELEVATION 4007.42	
DATE	
REVISIONS	
BY	

**MESQUITE HILL DR. PROPOSED LANDSCAPE AND IRRIGATION - MESQUITE HILLS UNIT 7 HIKE & BIKE TRAIL**

BEING ALL OF LANDSCAPE AND IRRIGATION ON BOLD EAGLE WITHIN BOUNDARY LIMITS. STATIONING PROVIDED IS AS PER PLAN AND PROFILE FROM SUBDIVISION PACKAGE SHEET 17 & 18

SCALE

HORIZ: 1" = 30'

VERT: 1" = 30'

DATE: DEC. 2012

DESIGN BY: OM

INITIATED BY: RR

CHECKED BY: MM

JOB NO.: XXX-XX



**CONDE INC.**

ENGINEERING / PLANNING  
SURVEYING / GPS

6080 SURETY DR. STE 100  
EL PASO, TEXAS 79905

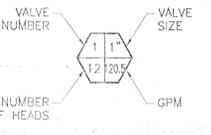
PHONE: (915) 592-0283  
FAX: (915) 592-0286



SHEET TITLE

**LANDSCAPE AND IRRIGATION**

IRRIGATION IS REGULATED BY THE TEXAS COMMISSION ON ENVIRONMENTAL QUALITY, P.O. BOX 13087, AUSTIN, TX 78711-308, (512) 239-6719



**PRECIPITATION RATE**

PR =	GPM X 0.625		
	HEAD SPACING X 0.868		
PR =	10.1 X 0.625	972.125	=0.53 IN./HR.
	46' X 0.868	1832.456	
PR =	10.1 X 0.625	972.125	=0.106 IN./HR.
	46' X 0.433	916.220	

- GENERAL PARK NOTES**
- FOR PROJECT(S) TO BE COORDINATED WITH TDLR TO INSURE COMPLIANCE WITH TAS REQUIREMENTS TO INCLUDE INSPECTIONS, AND CERTIFICATE OF SUBSTANTIAL COMPLETION; APPROVAL OF THE SUBDIVISION/PARK IMPROVEMENTS PLANS IS SUBJECT TO APPLICANT PROVIDING PROOF OF THE PROJECT REGISTRATION - PLD # (REGISTRATION NUMBER)
  - FOR ALL PARK IMPROVEMENTS (SIDEWALKS, RAMPS, ETC.) AND PAVED HIKE/BIKE TRAILS (IF APPLICABLE) TO BE COMPLIANT WITH REQUIRED ACCESSIBILITY CRITERIA AS SET FORTH IN ADAAG AND TAS STANDARDS AS MANDATED BY FEDERAL AND STATE GOVERNMENTS.
  - FOR NO SIGNS, FIRE HYDRANTS, LIGHTS, NDCBU'S, ELECTRICAL/WATER BOXES, TELEPHONE PEDESTALS, NO OBSTRUCTIONS IN GENERAL, SHALL INTERFERE / ENCRDACH IN TO THE PROPOSED SIDEWALKS / JOGGING TRAILS.
  - FOR APPLICANT/ CONTRACTOR TO OBTAIN BUILDING, ELECTRICAL, IRRIGATION, AND ANY OTHER REQUIRED PERMITS FROM DEVELOPMENT SERVICES (BPA&I) BUILDING PERMITS AND INSPECTIONS DIVISION.
  - FOR DEVELOPER TO OBTAIN SOIL SAMPLES (TAKEN FROM PROPOSED PARK SITE LOCATION FINISHED GROUND) AND PROVIDE COMPLETE ANALYSIS REPORT (TEXTURAL, MINERALS AVAILABILITY, WATER INFILTRATION, DETAILED SALINITY AND PH CONDUCTIVITY TEST) WITH RECOMMENDATIONS FOR SOILS AMENDMENTS AND PREPARATION TO INSURE EXISTING SOIL CONDITIONS ARE SUITABLE FOR TURF, SHRUBS, AND TREE GROWTH; COORDINATE SITE VISIT WITH PARKS STAFF FOR COLLECTION OF SOIL SAMPLES.
  - FOR ANY UNSUITABLE SOIL CONDITIONS SHALL BE REMEDIATED TO ELIMINATE HARD SOILS, STONY SOILS, HIGH CALICHE SOILS, CLAY SOILS, AND CONTAMINATED SOILS TO A MINIMUM DEPTH OF 12 INCHES AS REQUIRED FOR PROPER PLANTING AS PER PARKS DESIGN & CONSTRUCTION STANDARDS.
  - FOR ANY UNSUITABLE SOIL MATERIALS NOT APPROVED BY PARKS DEPARTMENT ARE TO BE REMOVED, DISPOSED OF, AND REPLACED WITH TOP SOIL TO A MINIMUM DEPTH OF 12 INCHES.

**LEGEND**

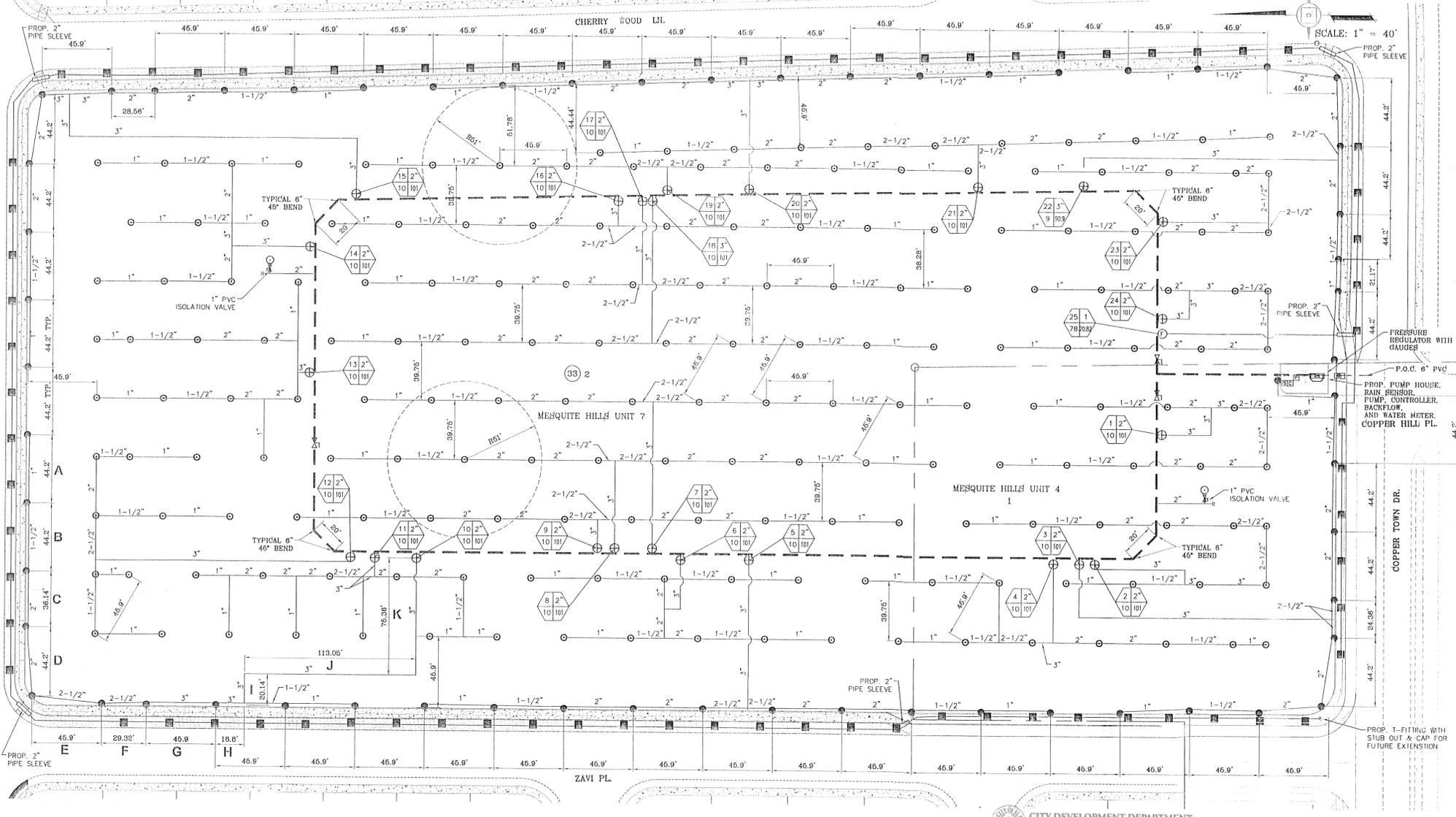
- HYBRID BERMUDA 'SANTA ANA' SOD
- FRANKLIN RED CHAT, 3" THICK W/ NON-WOVEN POLYPROPYLENE WEED BARRIER FABRIC TO BE PINNED DOWN AT 3" ON CENTER EACH WAY & AT 12" ON CENTER ALONG PERIMETER, OVERLAP MIN. 12" AT SEAMS
- 8" CONCRETE MOWSTRIP/HDR
- ROCKWALL LINE
- 6" PVC C-200 WATER MAIN
- TYPE K 6" COPPER WATER TUBE
- PVC C-200 WATER LATERAL (SIZE AS NOTED)
- PVC SLEEVE (TWICE THE SIZE OF PIPE)
- 6" WATER METER BY DEVELOPER MAX 750 GPM 50 PSI
- F&B MASTER SERIES LF860 MAX 750 GPM ENCLOSED IN PUMPHOUSE
- RAINBIRD RAIN SENSOR (TO BE SET AT 1/8" FOR SENSING)
- STATION CONTROLLER (ESP SITE SATELLITE SERIES) CONTROLLER MODEL ESP 24SITE-W
- PUMP - BERKELEY TYPE BB CLOSE COUPLED MOTOR DRIVE MECHANICAL SEAL (B3ZRM OR EQUAL PUMPS OVER 5 HP SHALL BE VARIABLE FREQUENCY DRIVE)
- WEATHERMATIC 8200CR-10 OR EQUAL REMOTE CONTROL VALVE
- PVC BALL VALVE (SAME SIZE AS PIPING)
- HUNTER I-25 ADJUSTABLE STAINLESS STEEL RISER ROTOR NOZZLE #10 50 PSI (LT GREEN) RADIUS: 51" FLOW: 10.1 GPM WITH DRAIN CHECK VALVE
- HUNTER I-25 ADJUSTABLE STAINLESS STEEL RISER ROTOR NOZZLE #10 60 PSI (LT GREEN) RADIUS: 61" FLOW: 10.1 GPM WITH DRAIN CHECK VALVE
- XERIBIRD 5 EMITTER
- PIPE SIZE (SIZE AS NOTED)
- STUB OUT WITH VALVE WIRES FOR FUTURE DRIP
- ISOLATION BRASS BALL VALVE
- REGULATOR RAINBIRD XC2-100-CORE CONTROL ZONE KIT (SHUT OFF VALVE TO BE BRASS IN LIEU OF PVC)
- BUCKNER DOUBLE LUG 1" QUICK COUPLER W/ BRASS STABILIZER IN VALVE BOX

**DRIP EMITTER WATER LATERAL NOTES:**  
ALL LATERAL SIZE TO BE 3/4" UNLESS OTHERWISE NOTED.

**NOTE:**  
IRRIGATION IS REGULATED BY THE TEXAS COMMISSION ON ENVIRONMENTAL QUALITY (T.C.E.Q.) (MC-178), P.O. BOX 13087, AUSTIN TEXAS, 78711-3037. TCEQ'S WEB SITE IS: WWW.TCEQ.STATE.TX.US

**THIS DESIGN COMPLIES WITH THE CITY OF EL PASO APPROVED PARK DESIGN STANDARDS ADOPTED JANUARY 6th 2013**

**PROJECT REGISTRATION NUMBER**  
EABPRJ4813568

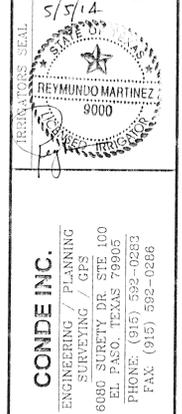


REVISIONS

NO.	DATE	REVISIONS	BY
1	04/14/14	REVISED LAYOUT	R.R.

**7073 COPPER TOWN DR. MESQUITE HILLS PARK**  
CITY OF EL PASO, TEXAS  
BEING ALL OF LOT 2, BLOCK 83, OF MESQUITE HILLS UNIT SEVEN AND ALL OF LOT 33, BLOCK 83, OF MESQUITE HILLS UNIT SEVEN, CITY OF EL PASO COUNTY, TEXAS CONTAINING: 8.57 ACRES

**DESIGNER:** CONDE INC. 6080 SURETY DR. STE. 100 EL PASO, TEXAS 79905  
**DATE:** DEC. 2012  
**INITIATED BY:** RR  
**CHECKED BY:** MM  
**JOB NO.:** 913-21



**PARK ZONE WATERING SCHEDULE**

VALVE NUMBERS TO RUN AT SAME TIME	START TIME	END TIME	TOTAL GPM'S	WATER IN MINUTES	PRECIPITATION RATE
VALVES 3,5,10,16	10:00 PM	11:00 PM	404.0	60 MINUTES	1.2"
VALVES 20,22	11:10 PM	12:10 AM	202.0	60 MINUTES	1.5"
VALVES 1,2	11:10 PM	1:08 AM	202.0	130 MINUTES	1.3"
VALVES 4,6	12:20 AM	2:36 AM	202.0	130 MINUTES	1.3"
VALVES 7,8	1:30 AM	3:46 AM	202.0	130 MINUTES	1.3"
VALVES 9,11	2:40 AM	4:06 AM	202.0	130 MINUTES	1.3"
VALVES 12,13	3:50 AM	6:06 AM	202.0	130 MINUTES	1.3"
VALVES 17,18	6:00 AM	7:16 AM	202.0	130 MINUTES	1.3"
VALVES 19,21	6:10 AM	8:26 AM	202.0	130 MINUTES	1.3"
VALVES 23,24	7:20 AM	9:36 AM	202.0	130 MINUTES	1.3"

**HYDRAULIC CALCULATION TABLE**

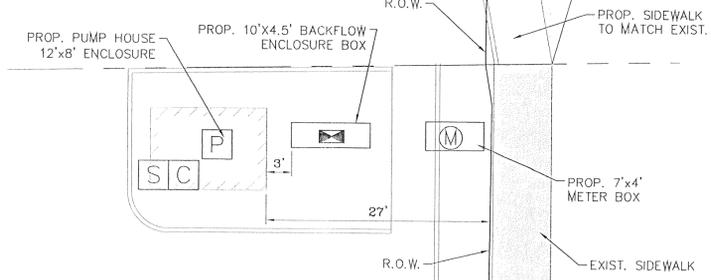
ZONES # 3,5,10,16	STATIC PRESSURE AS PER P&B 60			SECTION GPM 404.0	
	PIPE LENGTH (FEET)	FLOW (GPM)	SIZE (IN.)	PRESSURE LOSS PER 100 FEET	ACCUMULATED PRESSURE LOSS
LATERAL PIPE SECTION					
A-PVC CLASS# 200	46	10.1	1"	1.438	0.460
B-PVC CLASS# 200	46	20.2	1.6"	0.838	0.377
C-PVC CLASS# 200	37	30.3	2"	0.694	0.280
D-PVC CLASS# 200	46	40.4	2"	1.011	0.370
E-PVC CLASS# 200	48	60.6	2.6"	0.698	0.275
F-PVC CLASS# 200	30	80.8	2.6"	0.838	0.251
G-PVC CLASS# 200	46	70.7	3"	0.424	0.195
H-PVC CLASS# 200	19	80.8	3"	0.643	0.103
I-PVC CLASS# 200	21	101	3"	0.821	0.210
J-PVC CLASS# 200	113	101	3"	0.821	0.928
K-PVC CLASS# 200	76	101	3"	0.821	0.730
TOTAL PRESSURE LOSS					4.109
LATERAL PIPING PRESSURE LOSS IN PSI					4.109
<b>IRRIGATION ITEM</b>					
ZONE VALVE STATION 10				6.30	9.409
MAIN LINE-PVC CLASS# 200 (LOOPED)	705	404.0	6"	0.480	3.382
MAIN LINE-PVC CLASS# 200	126	404.0	6"	0.520	0.650
BACKFLOW					8.00
TYPE K COPPER LINE (THROUGH PUMP AND BACKFLOW)	40	404.0	6"	0.695	0.274
WATER METER					13.10
TOTAL PRESSURE LOSS					34.876
TOTAL PRESSURE LOSS + 3 ADDITIONAL VALVES (2 DUPLICATE OF CRITICAL HEAD CALC# X 3)					63.102
DESIGN PRESSURE (REQ'D PRESSURE + CRITICAL HEAD PLUS LOSSES) 60.0+3.102 = 113.102					113.102
MINIMUM HEAD PRESSURE (1-25 ADJ #10 LT. GREEN @ 60PSI-61" RADIUS 10.1 GPM)					60.000
ACTUAL PRESSURE AT CRITICAL HEAD (STATIC 60 - LOSSES) 113.102 - = -63.102					63.102
PRESSURE SHORTAGE					63.102
PUMP REQUIREMENTS (PRESSURE SHORTAGE CONVERTED TO ( FT. HEAD X 2.31) X 10% = FT HD @ 6PM (MAX) 63.102 X 2.31 = 146.766 X 10% = 146.342 @ 404.0 GPM					160.342

**REVIEWED**  
HEAD SPACING: 45.9'  
ROW SPACING: 39.75'  
RADIUS OF NOZZLE = 51"  
46 x 102 = 45.9  
45.9 x .868 = 39.75

**VALVE AND PRECIPITATION TABLE**

VALVE NUMBER & SIZE	SPRINKLER MODEL TYPE	GPM	NUMBER OF HEADS	PRECIPITATION RATES	TIME FOR 1.2" OF WATER IN MINUTES
1-2"	1-25 ADJ.	101.0	10	0.63"	136
2-2"	1-25 ADJ.	101.0	10	0.63"	136
3-2"	1-25 ADJ.	101.0	10	1.06"	68
4-2"	1-25 ADJ.	101.0	10	0.63"	136
5-2"	1-25 ADJ.	101.0	10	1.06"	68
6-2"	1-25 ADJ.	101.0	10	0.63"	136
7-2"	1-25 ADJ.	101.0	10	0.63"	136
8-2"	1-25 ADJ.	101.0	10	0.63"	136
9-2"	1-25 ADJ.	101.0	10	0.63"	136
10-2"	1-25 ADJ.	101.0	10	1.06"	68
11-2"	1-25 ADJ.	101.0	10	0.63"	136
12-2"	1-25 ADJ.	101.0	10	0.63"	136
13-2"	1-25 ADJ.	101.0	10	0.63"	136
14-2"	1-25 ADJ.	101.0	10	0.63"	136
15-2"	1-25 ADJ.	101.0	10	1.06"	68
16-2"	1-25 ADJ.	101.0	10	0.63"	136
17-2"	1-25 ADJ.	101.0	10	0.63"	136
18-2"	1-25 ADJ.	101.0	10	0.63"	136
19-2"	1-25 ADJ.	101.0	10	0.63"	136
20-2"	1-25 ADJ.	101.0	10	1.06"	68
21-2"	1-25 ADJ.	101.0	10	0.63"	136
22-2"	1-25 ADJ.	90.0	9	1.06"	68
23-2"	1-25 ADJ.	101.0	10	0.63"	136
24-2"	1-25 ADJ.	101.0	10	0.63"	136

TOTAL FOR ALL VALVES  
34 HOURS = 30 MINUTES  
TOTAL AT 4 VALVES RUNNING AT SAME TIME ( 3 day design )  
11 HOURS = 67 MINUTES  
DRIP EMITTERS VALVE #25 WATERING TIME OP 35 MINUTES

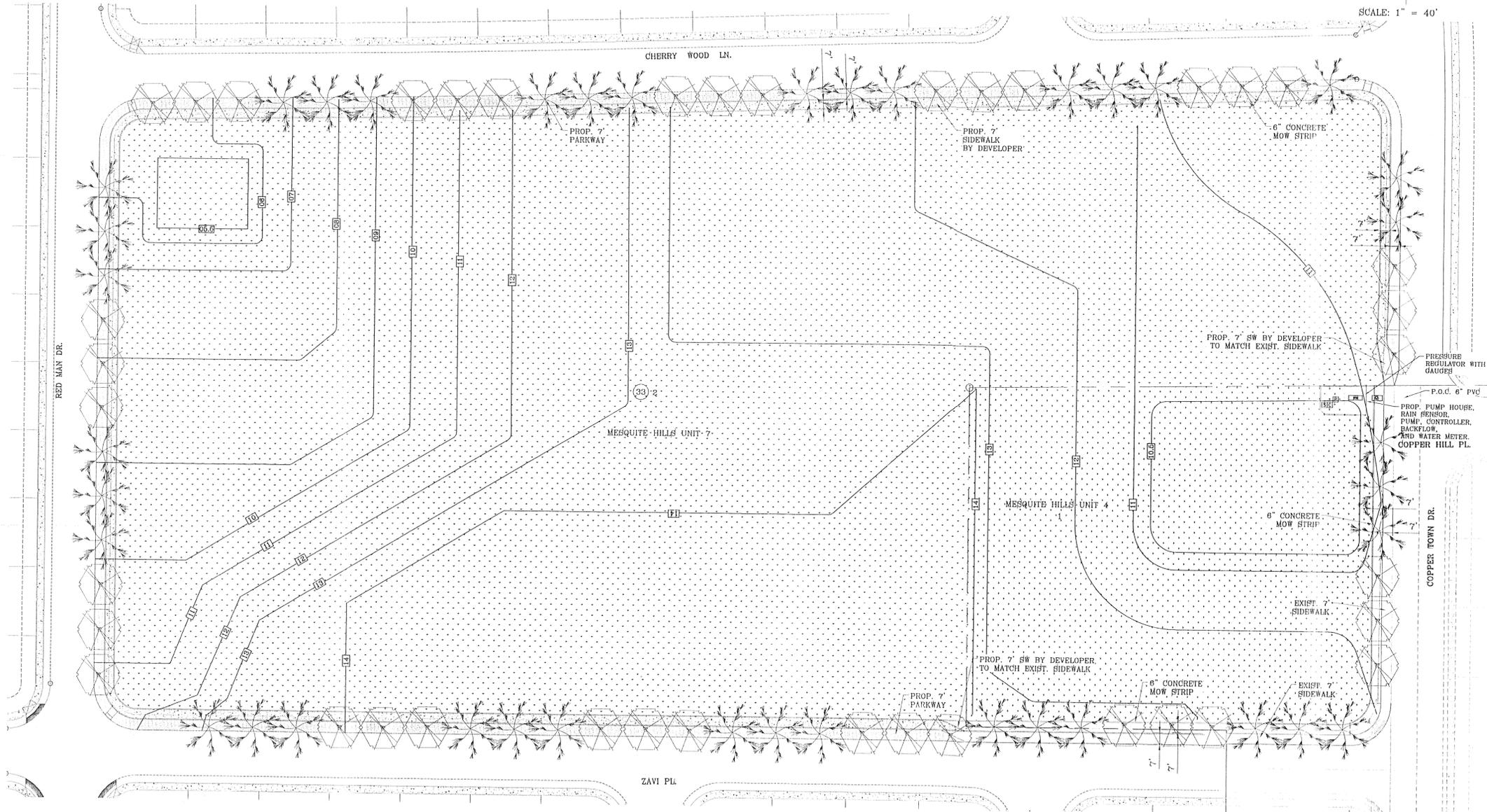


**PUMP HOUSE DETAIL**  
SCALE: 1"=10'

**CONDE INC.**  
ENGINEERING / PLANNING SURVEYING / GFS  
6080 SURETY DR. STE. 100 EL PASO, TEXAS 79905  
PHONE: (915) 592-0283 FAX: (915) 592-0286

**IRRIGATION PLAN**  
SHEET L6 OF L9

FILE: SA\_LANDSCAPE\MESQUITE\_HILLS\_PARK.PAK PLOTTED Thursday, May 01, 2014 4:41:25 PM



SCALE: 1" = 40'

BENCHMARK

CITY MONUMENT AT THE CENTERLINE INTERSECTION OF COPPER CANYON DRIVE AND COPPER MINE LANE. ELEVATION 4007.42 .....CITY DATUM

DATE	REVISIONS	BY

PROJECT NAME  
**7073 COPPER TOWN DR.  
MESQUITE HILLS PARK**

BENCHMARK  
CITY MONUMENT AT THE CENTERLINE INTERSECTION OF COPPER CANYON DRIVE AND COPPER MINE LANE. ELEVATION 4007.42 .....CITY DATUM

BEING ALL OF LOT 2, BLOCK 33, OF MESQUITE HILLS UNIT SEVEN, AND ALL OF LOT 1, BLOCK 33, OF MESQUITE HILLS UNIT FOUR, OF THE BLOCK 33 OF MESQUITE HILLS UNIT FOUR, CITY OF EL PASO, EL PASO COUNTY, TEXAS CONTAINING: 8.37 ACRES

SCALE  
HORIZ: 1" = 40'  
VERT: ---

DATE: DEC. 2012  
DESIGN BY: OM  
INITIATED BY: RR  
CHECKED BY: MM  
JOB NO.: 913-21

COMMON NAME	BOTANICAL NAME	SIZE	QUANTITY	HEIGHT
 FAN-TEX ASH	FRAXINUS VELUTINA	2" CAL.	39	10'
 BRADFORD PEAR	PYRUS CALLERYANA	2" CAL.	39	10'
 PADRE CANYON CHAT, 3" DEPTH WITH DeWitt Pro-5 WEED BARRIER FABRIC TO BE PINNED DOWN AT 3" ON CENTER EACH WAY & AT 12" ON CENTER ALONG PERIMETER, OVERLAP MIN. 12" AT SEAMS				
 HYBRID BERMUDA "SANTA ANA" SOD			351,585 SQ. FT.	
 CONCRETE SIDEWALK			13,328 SQ. FT.	
 6" WIDE 12" DEEP CONCRETE MOW CURB				

HYBRID BERMUDA "SANTA ANA" SOD	
LOT 1, BLK 33, 62,005 SQ. FT.	(1.42 AC.)
LOT 2, BLK 33, 289,580 SQ. FT.	(6.65 AC.)
<b>TOTAL PARK SITE</b>	
351,585 SQ. FT.	(8.07 AC.)
CONCRETE SIDEWALK 13,328 SQ. FT.	
LOT 1, BLK. 33, 1,866 SQ. FT.	(0.04 AC.)
LOT 2, BLK 33, 13,328 SQ. FT.	(0.21 AC.)
<b>TOTAL PARK SITE</b>	
15,194 SQ. FT.	(0.35 AC.)

CITY DEVELOPMENT DEPARTMENT

**REVIEWED**

IRRIGATORS SEAL

**CONDE INC.**  
ENGINEERING / PLANNING  
SURVEYING / GPS  
6650 SURETY DR. STE 100  
EL PASO, TEXAS 79905  
PHONE: (915) 592-0293  
FAX: (915) 592-0296

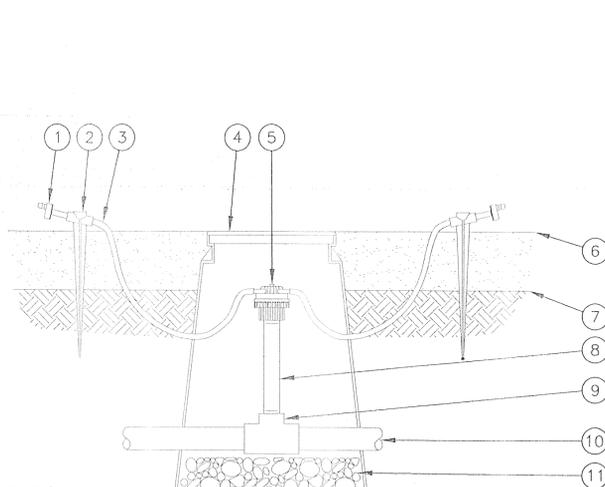


SHEET TITLE

LANDSCAPE PLAN

MESQUITE HILLS UNIT SEVEN

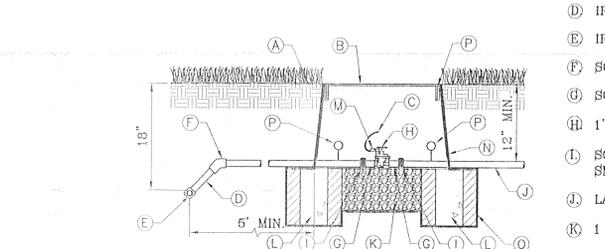
SHT L7 OF L9



NOTES:  
 1. SHOULD THE EMITTER BECOME DISLODGED UNREGULATED FLOW WILL OCCUR.  
 2. THE 6 OUTLET MANIFOLD PROVIDES A CENTRALIZED WATER DISTRIBUTION CONNECTION FOR UP TO 6 EMISSION DEVICES. THE FOLLOWING EMITTERS CAN BE INSERTED INTO THE 1/4" TUBING FROM THE EMT-6XER1:

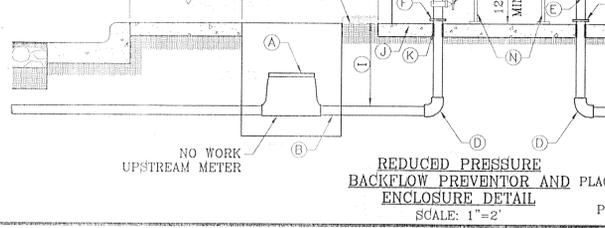
- |   |  |  |
|---|--|--|
| RAIN BIRD XERI-BUG BARB X BARB EMITTERS:<br>XB-05PC 0.5 GPH    XB-10PC 1.0 GPH    XB-20PC 2.0 GPH                                       |  |  |
| RAIN BIRD PC MODULE BARB X BARB EMITTERS:<br>PC-05 5 GPH    PC-07 7 GPH    PC-10 10 GPH    PC-12 12 GPH    PC-18 18 GPH    PC-24 24 GPH |  |  |

**6 EMITTER PLACEMENT**  
 SCALE: 1"=6"



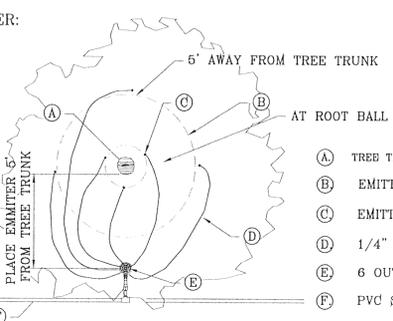
**ELECTRIC CONTROL VALVE**  
 SCALE: 1"=1"

- |   |   |
|---|---|
| <p>(A) PROPOSED METER<br/>         (B) SERVICE LINE, NO OUTLETS ALLOWED, COPPER<br/>         (C) FINISH GRADE<br/>         (D) TYPE K COPPER ELL<br/>         (E) TYPE K COPPER NIPPLE<br/>         (F) BRASS UNION, 4" ABOVE GRADE, MIN.<br/>         (G) BACKFLOW PREVENTOR DEVICE (SEE PLAN) HEIGHT 12" MIN, MAX 30"<br/>         (H) COPPER MAINLINE<br/>         (I) 28" MINIMUM DEPTH<br/>         (J) 3000 PSI CONCRETE PAD, 4" DEPTH, EXTEND 4" BEYOND EDGE OF ENCLOSURE<br/>         (K) PIPE SHALL BE SLEEVED THROUGH CONCRETE PAD WITH SEALED SHC 40 PVC.<br/>         (L) BACKFLOW ENCLOSURE (SEE PLAN) MUST MEET R VALUE OF 25, &amp; PROVIDED MINIMUM CLEARANCES.<br/>         (M) STEEL SUPPORT BRACKETS BOLTED TO CONCRETE PAD<br/>         (N) BRASS ISOLATION VALVE.<br/>         (O) BRICK BLOCK AT EACH CORNER<br/>         (P) FLANGE<br/>         (Q) 3/8" PEA GRAVEL, 4" DEEP (NO SOIL IN BOX)<br/>         (R) SET IN CARLSON VALVE BOX<br/>         (S) WEED CLOTH ALL AROUND BOX PIPE AND UNDER PEA GRAVEL. TAPE TO SEAL ALL GAPS AND PENETRATIONS. USE 3M HIGH GRADE PLASTIC TAPE.<br/>         (T) 1419 CARLSON VALVE BOX WITH LID AND BOLT. COLOR TO BE TAN FOR ROCK MULCH AREAS AND GREEN FOR TURF AREAS<br/>         (U) PVC MAINLINE AS PER IRRIGATION PLAN</p> | <p>(A) FINISH GRADE<br/>         (B) 1419 CARLSON VALVE BOX WITH LID AND BOLT. COLOR TO BE TAN FOR ROCK MULCH AREAS AND GREEN FOR TURF AREAS<br/>         (C) 3M SCOTCHLOK CONNECTORS OR APPROVED EQUAL<br/>         (D) IRRIGATION MAINLINE/LATERAL MAINLINE<br/>         (E) IRRIGATION MAINLINE SERVICE TEE OR ELL<br/>         (F) SCHEDULE 80 PVC ELBOW<br/>         (G) SCHEDULE 80 PVC CLOSED NIPPLE<br/>         (H) 1" BALL VAVE ( BRASS )<br/>         (I) SCHEDULE 80 PVC UNIONS ON LINES 3" OR SMALLER, AND FLANGES ON LINES 3" OR LARGER<br/>         (J) LATERAL LINE<br/>         (K) 1 CUBIC FOOT 1" DIAMETER WASHED ROCK<br/>         (L) 8"X8"X16" SOLID CMU BLOCK<br/>         (M) 24" WIRE EXPANSION COIL<br/>         (N) 6 mm BLACK POLYETHYLENE PLASTIC TAPE TO ALL INLET AND OUTLET PIPE<br/>         (O) PROVIDE WEED BARRIER FABRIC DeWITT PRO 5" UNDER AND AROUND VALVE BOX AND SEAL ALL PIPE PENETRATIONS<br/>         (P) PRESSURE GAUGE ( BRASS )</p> |
|---|---|

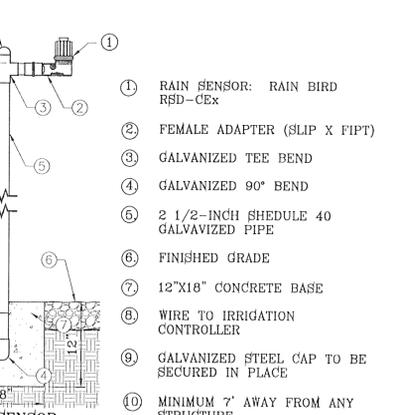


**REDUCED PRESSURE BACKFLOW PREVENTOR AND ENCLOSURE DETAIL**  
 SCALE: 1"=2"

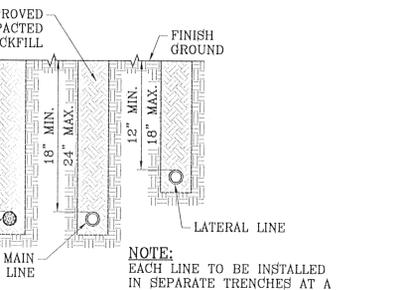
- SINGLE-OUTLET BARB INLET X BARB OUTLET EMITTER: RAIN BIRD XERI-BUG OR PC MODULE EMITTER: (1 OF 2 SHOWN, 6 POSSIBLE)
- UNIVERSAL 1/4" TUBING STAKE: RAIN BIRD TS-025 (1 OF 2 SHOWN, 6 POSSIBLE)
- 1/4" DISTRIBUTION TUBING: RAIN BIRD XQ TUBING (LENGTH AS REQUIRED) (1 OF 2 SHOWN, 6 POSSIBLE)
- SUBTERRANEAN EMITTER BOX: RAIN BIRD SEB 7XB
- SIX OUTLET MANIFOLD: RAIN BIRD EMT-6XER1
- TOP OF MULCH
- FINISH GRADE
- PVC SCH 80 NIPPLE (LENGTH AS REQUIRED)
- PVC SCH 40 TEE OR ELL
- PVC LATERAL PIPE
- 3" MINIMUM DEPTH OF 3/4" WASHED GRAVEL



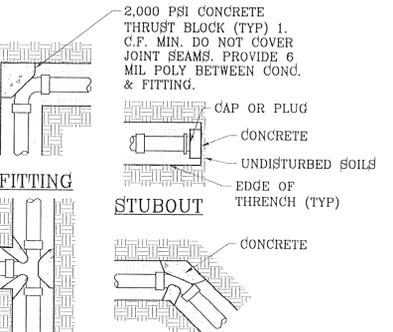
**EMITTER PLACEMENT**  
 SCALE: 1"=6"



**RAIN SENSOR RSD-CEX POLE MOUNT**  
 SCALE: 1"=1"

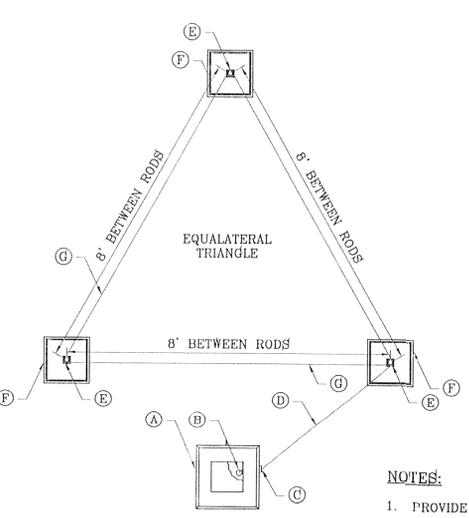


**TRENCH DETAIL**  
 SCALE: 1"=1"

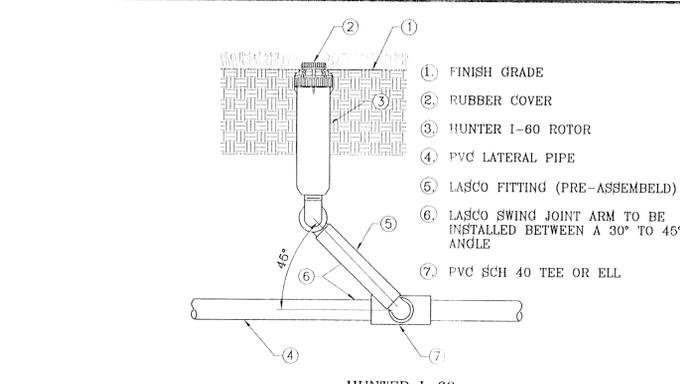


**THRUST BLOCKING DETAIL**  
 SCALE: 1"=1"

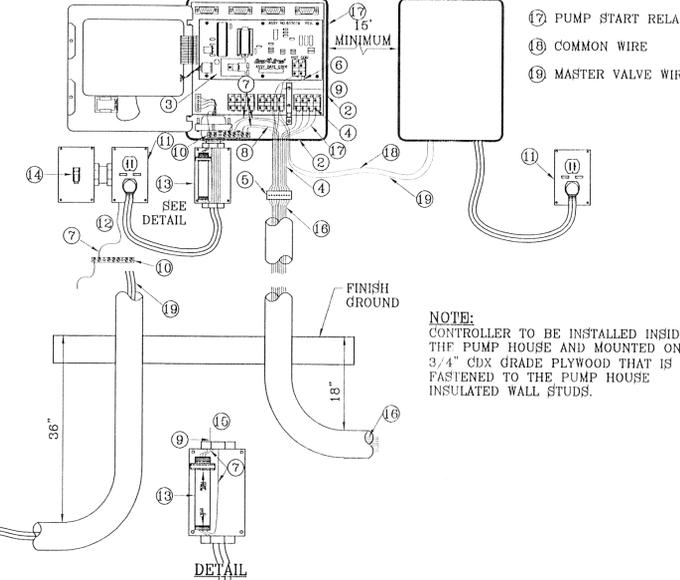
- INSTALL IN NEMA2 APPROVED METAL ENCLOSURE TO HOUSE IRRIGATION SYSTEM CONTROLLER.
- RAIN BIRD ESP-SAT WALL MOUNT (METAL/PLASTIC) FIELD SATELLITE CONTROLLER
- ESP-SAT TWO-WIRE MAXICOM INTERFACE BOARD (MIB)
- WIRE TERMINAL CONNECTORS TO REMOTE CONTROL VALVES USE ESP-MC QUICK CONNECT TERMINAL STRIP. ALL WIRES TO BE LABELED IN CONJUNCTION WITH EACH IRRIGATION REMOTE CONTROL VALVE AND MUST BE WATER/WEATHER PROOF. PLACE A QUICK DISCONNECT IN THIS GENERAL LOCATION SEPERATE FROM THE ONE ON THE CLOCK (CONTROLLER)
- PLACE A QUICK DISCONNECT IN THIS GENERAL LOCATION SEPERATE FROM THE ONE ON THE CONTROLLER AND MOUNTED WITHIN METAL PEDESTAL ENCLOSURE.
- COMMON WIRE (BLACK) FROM MSP-1 SURGE ARRESTOR TO MAXICOM INTERFACE BOARD (MIB)
- ALL GROUND WIRES (GREEN) TO GROUNDING BUSS BAR
- #10 COPPER GROUND WIRE FROM ESP FIELD SATELLITE CONTROLLER GROUNDING BUSS BAR TO GROUNDING GRID (SEE GROUNDING GRID MAXICOM DETAIL 305)
- HOT WIRE (RED) FROM MSP-1 SURGE ARRESTOR TO MAXICOM INTERFACE BOARD (MIB)
- GROUNDING BUSS BAR IN CABINET SEPERATE OF CONTROLLER
- 120 VOLT POWER SUPPLY W/ G.F.C.I. PROTECTION
- REFER TO LOCAL ELECTRIC CODE FOR CONNECTIONS
- RAIN BIRD MSP-1 RECOMMENDED SURGE ARRESTOR TO BE 14. IN SEPERATE JUNCTION BOX WITH COVER
- POWER ON/OFF TOGGLE SWITCH
- RAIN BIRD WARRANTY REQUIRES PROPER SURGE PROTECTION IN A METAL BOX WITH LID. USE INTERMATIC AG2401 OR TRIPPLITE ISOBAR.
- ALL LOW VOLTAGE IRRIGATION VALVE WIRES TO BE BURIED AT 18" AND LABELED AT QUICK DISCONNECT. CONTROLLER AND CONTROL VALVES WITH WEATHER PROOF PERMANENT TAGS.
- IF PUMP IN PUMP HOUSE IS REQUIRED, CONTROLLER TO BE INSTALLED INSIDE THE PUMP HOUSE AND MOUNTED ON 3/4" CDX GRADE PLYWOOD THAT IS FASTENED TO THE PUMP HOUSE INSULATED WALL STUDS.
- FINISH GRADE, SEE PLAN FOR MATERIAL.
- ELECTRICAL POWER CONDUIT FOR 120 VOLT POWER TO BE BURIED AT 36" DEPTH FROM FINISH GRADE TO TOP OF PIPE AND LABELED WITH PERMANENT TAGS. SEE TRENCH DETAIL.



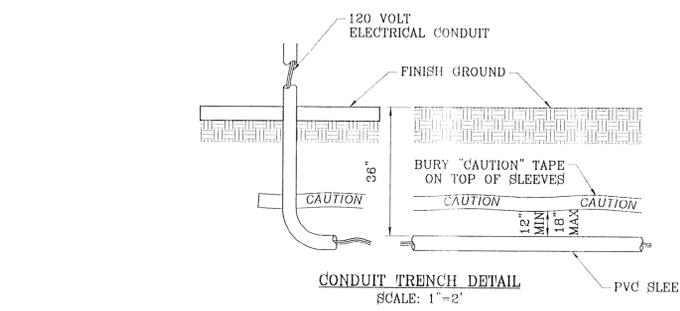
**TRIANGULAR GROUNDING GRID DETAIL**  
 SCALE: 1"=2"



**HUNTER 1-60**  
 SCALE: 1"=1"



**ESP-XXMC INSTALLATION DETAIL**  
 SCALE: 1"=1"



**CONDUIT TRENCH DETAIL**  
 SCALE: 1"=2"

- |   |   |
|---|---|
| <p>(A) SATELLITE<br/>         (B) #10 BARE COPPER WIRE FROM GROUNDING TERMINAL LUG<br/>         (C) CONDUIT FROM SATELLITE<br/>         (D) #10 BARE COPPER WIRE FED THROUGH CONDUIT FROM SATELLITE TO GROUNDING ROD<br/>         (E) GROUNDING ROD FROM GK-UL3R0D THREE ROD KIT<br/>         (F) TAN COLOR CARSON 910 SERIES BOX W/ LID &amp; BOLT (1 OF 3)<br/>         (G) #10 BARE COPPER WIRE FROM VALVE BOX HELD IN PLACE WITH BRASS CLAMP (SEE DETAIL FOR "GROUNDING WIRES IN GRID")</p> | <p>NOTES:<br/>         1. PROVIDE WEED CLOTH UNDER AND AROUND THE VALVE BOX AND TAPE IT. PROVIDE WASHED 3" PEA GRAVEL 4" DEEP<br/>         2. PLAN VIEW FOR LAYOUT ONLY. SEE GROUNDING ROD NOTES FOR INSTALLATION INSTRUCTIONS.</p> |
|---|---|

BENCHMARK  
 CITY MOUNTAIN AT THE CENTERLINE INTERSECTION OF COPPER CANYON DRIVE AND COPPER MINE LANE. ELEVATION 4007.42 ..... CITY DATUM  
 DATE .....

REVISIONS  
 BY .....

PROJECT NAME  
**7073 COPPER TOWN DR. MESQUITE HILLS PARK**

BEING ALL OF LOT 2, BLOCK 33, OF MESQUITE HILLS UNIT SEVEN, AND ALL OF LOT 1, BLOCK 33, OF MESQUITE HILLS UNIT SEVEN, CITY OF EL PASO, EL PASO COUNTY, TEXAS CONTAINING: .....

SCALE  
 HORIZ: AS NOTED  
 VERT: ---

DATE: DEC. 2012  
 DESIGN BY: OM  
 INITIATED BY: RR  
 CHECKED BY: MM  
 JOB NO.: 913-21

CONDE INC.  
 ENGINEERING / PLANNING / SURVEYING / GFS  
 6080 SURETY DR. STE 100  
 EL PASO, TEXAS 79905  
 PHONE: (915) 592-0283  
 FAX: (915) 592-0266

CITY DEVELOPMENT DEPARTMENT  
**REVIEWED**

CONDE INC.  
 REGISTRATION NO. F 2211

SHEET TITLE  
**IRRIGATION DETAILS**

SHT L5 OF L9

LANDSCAPE NOTES:

- 1. PLANT MATERIAL SUBSTITUTIONS SHALL NOT BE MADE WITHOUT THE WRITTEN PERMISSION OF THE OWNER...

GRADING

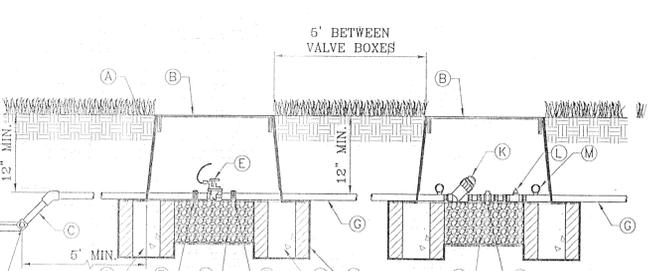
- 1. PERFORM GRADING AND EXCAVATION WORK IN COMPLIANCE WITH APPLICABLE SPECIFICATIONS, REQUIREMENTS, CODES AND ORDINANCES...

PROTECTIONS:

- 1. CONTRACTOR SHALL BE FAMILIAR WITH PLANS, DETAILS AND SPECIFICATIONS AS THEY PERTAIN TO THE SITE...

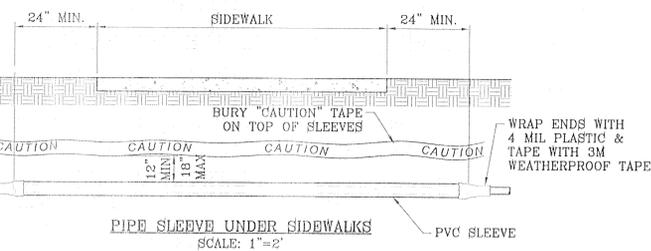
GENERAL NOTES:

- 1. THE DEVELOPER SHALL REGISTER THE PROJECT WITH TDLR, TO INCLUDE SUBMITTAL OF DRAWINGS, INSPECTION AND CERTIFICATE OF SUBSTANTIAL COMPLEXION...



- (A) FINISH GRADE
(B) 1419 CARSON VALVE BOX WITH LID AND BOLT. COLOR TO BE TAN FOR ROCK MULCH AREAS AND GREEN FOR TURF AREAS...

NOTE: PVC PIPE ASSEMBLIES AT IRRIGATION VALVES, PRESSURE REGULATOR AND FILTER ARE TO HAVE UNIONS ON BOTH INTAKE AND DISCHARGE SIDES...



IRRIGATION NOTES

- 1. ALL WORK MUST BE IN COMPLIANCE WITH THE TEXAS COMMISSION ON ENVIRONMENTAL QUALITY RULES AND REGULATIONS...

TRENCHING

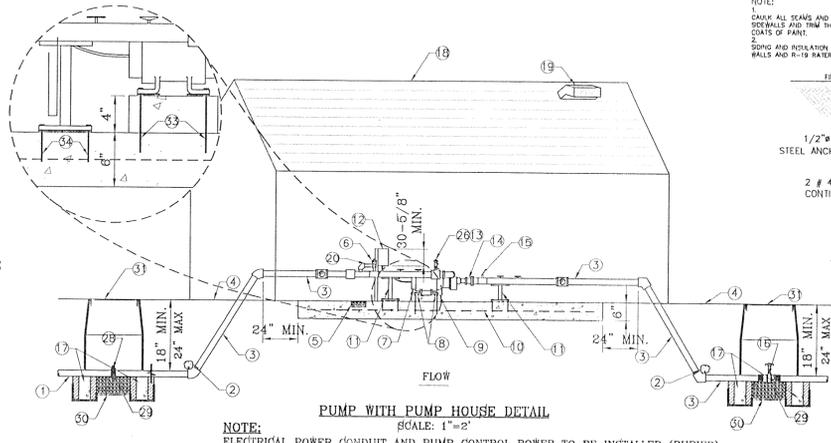
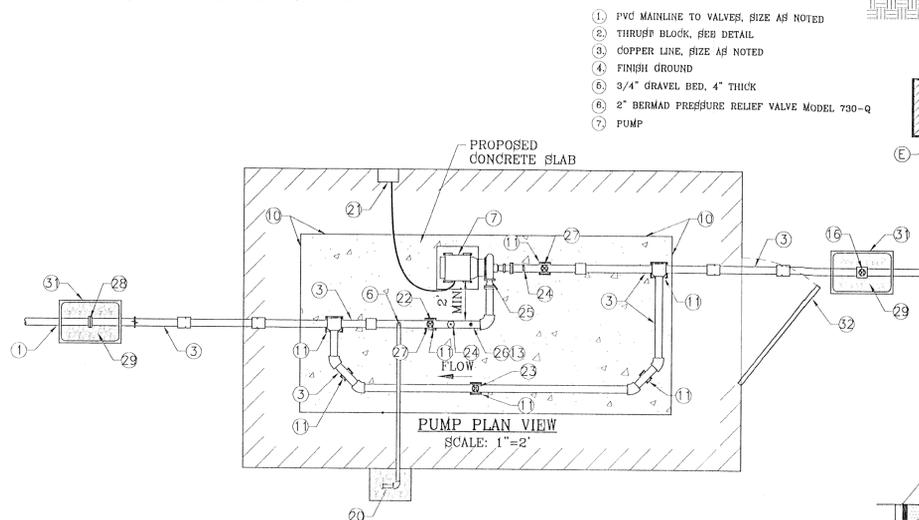
- 1. CONTACT LOCAL UTILITY COMPANIES AND BLUE STAKE ALL UTILITIES PRIOR TO EXCAVATION...

SOLVENT WELDING

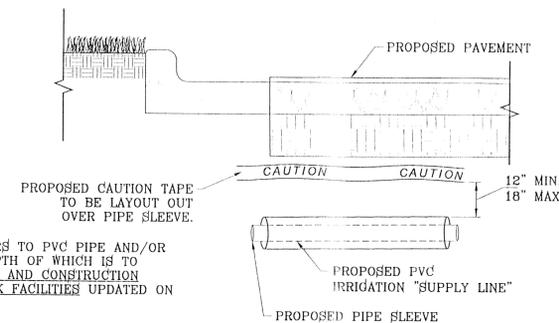
- 1. USE IPS WELD-ON CLEANER AND PURPLE PRIMER P68 OR P70 TO CLEAN AND PREPARE THE PIPES BEING JOINED...

ELECTRICAL WIRING

- 1. WIRES SHOULD NOT BE STRETCHED TIGHT IN THE TRENCHES, ALLOW EXTRA WIRE FOR SHARP TURNS IN THE TRENCHES...



NOTE: ELECTRICAL POWER CONDUIT AND PUMP CONTROL POWER TO BE INSTALLED (BURIED) AT 36" DEPTH FROM FINISH GROUND TO TOP OF PIPE...

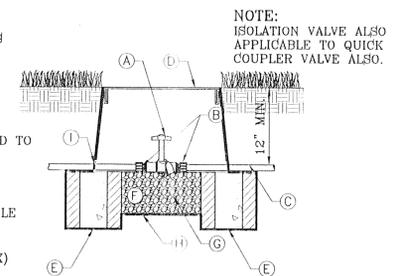


PIPE SLEEVE DETAIL WITH GENERAL NOTES SCALE: 1"=1'

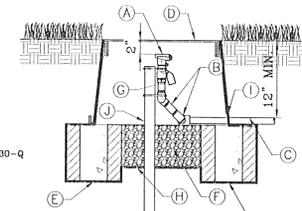
NOTES:

- 1. 'SUPPLY LINE' REFERS TO PVC PIPE AND/OR IRRIGATION LINE, DEPTH OF WHICH IS TO COMPLY WITH DESIGN AND CONSTRUCTION STANDARDS FOR PARK FACILITIES...

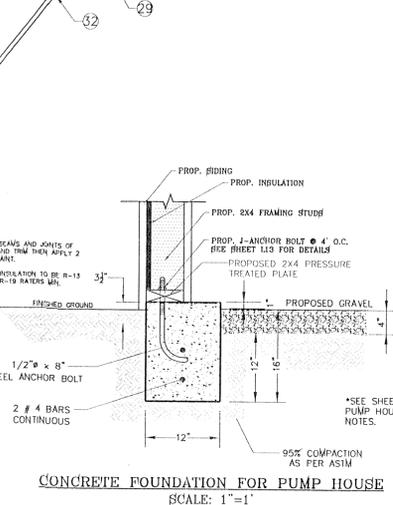
- (A) ISOLATION BRASS BALL VALVE (SAME SIZE AS PIPE)
(B) THREADED MALE ADAPTERS
(C) PVC LATERAL...



ISOLATION VALVE SCALE: 1"=1'



QUICK COUPLER VALVE SCALE: 1"=1'



CONCRETE FOUNDATION FOR PUMP HOUSE SCALE: 1"=1'

NOTE: CHECK ALL SIZES AND JOINTS OF STEELWALLS AND TRENCHES THEN APPLY 2 COATS OF PAINT...

CITY DEVELOPMENT DEPARTMENT REVIEWED

PROJECT NAME: 7073 COPPER TOWN DR. MESQUITE HILLS PARK. CITY OF EL PASO, TEXAS. SHEET L9 OF L9.