

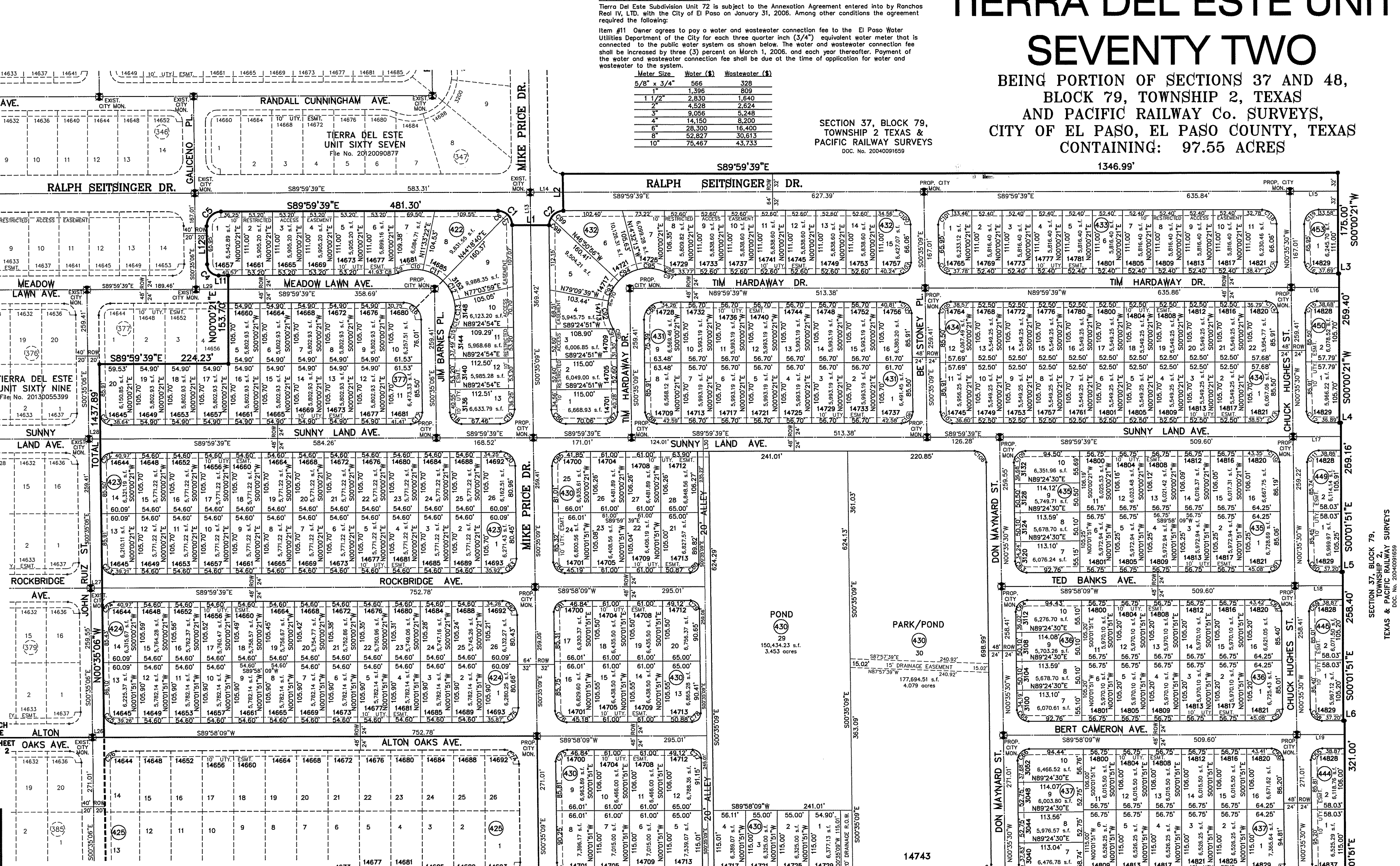
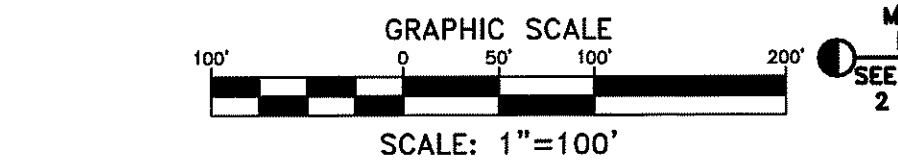
TIERRA DEL ESTE UNIT SEVENTY TWO

BEING PORTION OF SECTIONS 37 AND 48, BLOCK 79, TOWNSHIP 2, TEXAS AND PACIFIC RAILWAY Co. SURVEYS, CITY OF EL PASO, EL PASO COUNTY, TEXAS CONTAINING: 97.55 ACRES

CURVE TABLE						
CURVE	RADIUS	LENGTH	TANGENT	CHORD	BEARING	DELTA
C1	25.00	39.01	24.74	35.17	S44°17'24"E	89°24'30"
C2	25.00	39.53	25.26	35.54	N44°42'36"E	90°35'30"
C3	20.00	31.22	22.86	28.15	N45°18'40"E	89°26'22"
C4	20.00	31.21	22.85	28.14	N45°18'30"E	89°24'33"
C5	25.00	39.53	25.26	35.54	N44°42'36"E	90°35'30"
C6	25.00	17.90	9.35	11.23	N69°28'49"W	41°01'40"
C7	25.00	21.11	11.23	20.49	N24°46'34"W	48°22'50"
C8	40.00	11.43	5.75	11.39	N81°49'16"E	16°22'09"
C9	40.00	5.76	2.89	5.76	N89°30'40"E	81°00'00"
C10	70.00	41.29	22.86	43.46	N45°18'30"E	89°24'33"
C11	70.00	40.02	20.57	39.48	N62°03'59"W	32°45'18"
C12	70.00	40.02	20.57	39.48	N29°18'41"W	32°45'18"
C13	70.00	47.39	24.64	46.49	N06°27'33"E	38°47'09"
C14	40.00	2.31	1.16	2.31	S24°11'46"W	31°8'43"
C15	40.00	16.14	8.16	16.04	S10°58'39"W	16°22'09"
C16	30.00	46.81	29.69	42.21	N45°17'24"E	89°24'33"
C17	20.00	31.62	20.21	28.43	N44°42'36"E	90°35'30"
C18	20.00	31.21	19.79	28.14	N45°17'24"E	89°24'33"
C19	25.00	39.53	25.26	35.54	N44°42'36"E	90°35'30"
C20	25.00	39.01	24.74	35.17	N45°17'24"E	89°24'30"
C21	20.00	31.21	19.79	28.14	N45°17'24"E	89°24'33"
C22	20.00	31.62	20.21	28.43	S44°42'36"E	90°35'27"
C23	20.00	31.21	19.79	28.14	S45°17'24"E	89°24'30"
C24	20.00	31.62	20.21	28.43	S44°42'36"E	90°35'27"
C25	20.00	31.22	19.81	28.15	S45°18'30"E	89°26'45"
C26	20.00	31.61	20.19	28.42	S44°41'31"W	90°33'18"
C27	20.00	31.22	19.81	28.15	S45°18'29"E	89°26'45"
C28	20.00	31.61	20.19	28.42	S44°41'31"W	90°33'18"
C29	20.00	31.22	19.81	28.15	S45°18'29"E	89°26'45"
C30	20.00	31.62	20.21	28.43	N44°42'36"E	90°35'30"
C31	25.00	39.03	24.76	35.18	N45°18'30"E	89°26'42"
C32	25.00	39.51	25.24	35.53	N44°41'30"E	90°33'18"
C33	25.00	39.03	24.76	35.18	N45°18'30"E	89°26'42"
C34	25.00	39.51	25.24	35.53	S44°41'30"E	90°33'18"
C35	25.00	39.03	24.76	35.18	S45°18'30"E	89°26'42"
C36	25.00	39.51	25.24	35.53	S44°41'30"E	90°33'18"
C37	25.00	39.03	24.76	35.18	N45°18'30"E	89°26'42"
C38	25.00	25.65	14.08	24.54	N28°48'32"E	58°47'23"
C39	85.00	10.10	5.06	10.09	S54°48'00"W	6°48'26"
C40	25.00	16.83	8.75	16.51	N70°40'68"E	38°34'22"
C41	25.00	37.98	23.75	34.43	S46°30'15"E	87°03'12"
C42	350.00	44.99	22.53	44.96	N06°39'37"W	72°16'56"
C43	240.00	31.21	19.79	28.14	S45°18'30"E	89°26'42"
C44	25.00	39.51	25.24	35.53	N44°41'30"E	90°33'18"
C45	20.00	31.61	20.20	28.42	N44°41'20"E	90°33'38"
C46	20.00	31.22	19.81	28.15	S45°18'40"E	89°26'22"
C47	20.00	31.61	20.20	28.42	S44°41'20"E	90°33'38"
C48	20.00	31.22	19.81	28.15	N45°18'40"E	89°26'22"
C49	20.00	31.61	20.20	28.42	N44°41'20"E	90°33'38"
C50	20.00	31.22	19.81	28.15	S45°18'40"E	89°26'22"
C51	20.00	31.22	19.81	28.15	N45°18'40"E	89°26'22"
C52	20.00	31.61	20.20	28.42	S44°41'20"E	90°33'38"
C53	20.00	31.61	20.20	28.42	N44°41'20"E	90°33'38"
C54	20.00	31.22	19.81	28.15	N45°18'40"E	89°26'22"
C55	20.00	31.61	20.20	28.42	N44°41'20"E	90°33'38"
C56	20.00	31.22	19.81	28.15	N45°18'40"E	89°26'22"
C57	20.00	31.61	20.20	28.42	N44°41'20"E	90°33'38"
C58	20.00	31.22	19.81	28.15	N45°18'40"E	89°26'22"
C59	20.00	31.61	20.20	28.42	N44°41'20"E	90°33'38"
C60	20.00	31.22	19.81	28.15	N45°18'40"E	89°26'22"
C61	20.00	31.61	20.20	28.42	N44°41'20"E	90°33'38"
C62	20.00	31.22	19.81	28.15	N45°18'40"E	89°26'22"
C63	20.00	31.22	19.81	28.15	S45°18'40"E	89°26'22"
C64	20.00	31.61	20.20	28.42	S44°41'20"E	90°33'38"
C65	20.00	31.22	19.81	28.15	S45°18'40"E	89°26'22"
C66	20.00	31.61	20.20	28.42	S44°41'20"E	90°33'38"
C67	20.00	31.22	19.81	28.15	N45°18'40"E	89°26'22"
C68	20.00	31.61	20.20	28.42	N44°41'20"E	90°33'38"
C69	25.00	39.51	25.24	35.53	N44°41'30"E	90°33'18"
C70	25.00	39.03	24.76	35.18	N45°18'30"E	89°26'42"
C71	25.00	39.51	25.24	35.53	N44°41'30"E	90°33'18"
C72	25.00	39.03	24.76	35.18	S45°18'30"E	89°26'42"
C73	25.00	31.61	20.19	28.42	S44°41'30"E	90°33'18"
C74	25.00	39.03	24.76	35.18	N45°18'30"E	89°26'42"
C75	25.00	39.51	25.24	35.53	N44°41'30"E	90°33'18"
C76	20.00	31.22	19.81	28.15	S45°18'30"E	89°26'42"
C77	15.00	23.42	14.86	21.11	N45°18'30"E	89°26'42"
C78	15.00	23.71	15.15	21.32	N44°41'30"E	90°33'18"
C79	15.00	23.42	14.86	21.11	N45°18'30"E	89°26'42"
C80	15.00	23.71	15.15	21.32	N44°41'30"E	90°33'18"

CURVE TABLE						
CURVE	RADIUS	LENGTH	TANGENT	CHORD	BEARING	DELTA
C81	20.00	31.61	20.19	28.42	S44°41'30"E	90°33'18"
C82	25.00	39.01	24.74	35.17	N45°17'24"E	89°24'30"
C83	25.00	39.53	25.26	35.54	N44°42'36"E	90°35'30"
C84	20.00	31.22	19.81	28.15	S45°18'30"E	89°26'42"
C85	25.00	39.53	25.26	35.54	S44°42'36"E	90°35'30"
C86	25.00	39.01	24.74	35.17	S45°17'24"E	89°24'30"
C87	20.00	31.62	20.21	28.43	N44°42'36"E	90°35'30"
C88	20.00	31.21	19.79	28.14	S45°17'24"E	89°24'30"
C89	30.00	47.43	30.31	42.64	S44°42'36"E	90°35'30"
C90	40.00	21.13	10.82	20.89	N15°43'20"W	30°16'22"
C91	70.00	1.30	0.65	1.30	S30°19'28"E	1°04'05"
C92	70.00	49.64	25.91	48.60	S09°28'33"E	40°37'47"
C93	70.00	39.48	20.28	38.96	S26°59'42"W	32°18'43"
C94	70.00	39.48	20.28	38.96	S59°18'25"W	32°18'43"
C95	70.00	47.80	24.86	46.88	N48°58'25"E	30°07'36"
C96	70.00	1.54	0.77	1.54	N44°46'53"E	11°52'29"
C97	40.00	18.04	9.18	17.89	S77°04'24"E	25°50'31"
C98	25.00	13.43	6.88	13.27	S14°48'07"W	30°46'32"
C99	25.00	26.10	14.38	24.93	S60°05'52"W	69°48'58"
C100	25.00	39.01	24.74	35.17	N45°17'24"E	89°24'30"
C101	25.00	39.53	25.26	35.54	S44°42'36"E	90°35'30"
C102	20.00	31.21	19.79	28.14	S45°17'24"E	89°24'30"
C103	20.00	31.62	20.21	28.43	N44°42'36"E	90°35'30"
C104	20.00	31.21	19.79	28.14	N45°17'24"E	89°24'30"
C105	20.00	31.62	20.21	28.43	S44°42'36"E	90°35'30"
C106	20.00	31.62	20.21	28.43	N44°42'36"E	90°35'30"
C107	20.00	31.21	19.79	28.14	S45°17'24"E	89°24'30"
C108	20.00	31.21	19.79	28.14	N45°17'24"E	89°24'30"
C109	20.00	31.62	20.21	28.43	S44°42'36"E	90°35'30"
C110	20.00	31.21	19.79	28.14	N45°17'24"E	89°24'30"
C111	20.00	31.62	20.21	28.43	N44°42'36"E	90°35'30"
C112	20.00	31.21	19.79	28.14	N45°17'24"E	89°24'30"
C113	20.00	31.62	20.21	28.43	N44°42'36"E	90°35'30"
C114	20.00	31.21	19.79	28.14	N45°17'24"E	89°24'30"
C115	20.00	31.62	20.21	28.43	N44°42'36"E	90°35'30"
C116	20.00	31.21	19.79	28.14	N45°17'24"E	89°24'30"
C117	20.00	31.62	20.21	28.43	N44°42'36"E	90°35'30"
C118	25.00	39.01	24.74	35.17	N45°17'24"E	89°24'30"
C119	25.00	39.53	25.26	35.54	N44°42'36"E	90°35'30"

LINE TABLE		
LINE	LENGTH	BEARING
L1	64.01	S89°59'39"E
L2	64.01	N01°02'53"W
L3	1.71	S89°59'39"E
L4	2.85	S89°59'39"E
L5	2.54	N89°58'09"E
L6	2.54	N89°58'09"E
L7	6.40	S89°59'39"E
L8	8.88	S89°59'39"E
L9	92.76	S89°59'39"E
L10	52.00	N00°01'51"W
L11	16.56	S89°59'39"W
L12	65.95	N00°25'53"W
L13	37.00	S00°35'09"E
L14	57.00	S89°59'39"E
L15	57.00	S89°59'39"E
L16	83.14	S89°59'39"E
L17	83.31	S89°59'39"E
L18	83.30	S89°58'09"W
L19	83.31	S89°58'09"W
L20	80.66	S89°58'09"W
L21	96.42	S89°58'09"W
L22	93.66	S89°58'09"W
L23	39.56	S89°58'09"W
L24	20.00	S89°58'09"W
L25	20.00	S89°58'09"W
L26	20.00	S89°58'09"W
L27	20.00	S89°59'39"E
L28	20.00	S89°59'39"E
L29	56.11	S89°59'39"E
L30	24.00	S00°35'09"E
L31	26.00	S00°35'09"E



NOTES:
WATER AND SEWER SERVICES WILL BE EXTENDED TO THIS SUBDIVISION (TIERRA DEL ESTE UNIT 72) FROM EXISTING EL PASO WATER UTILITIES/PUBLIC SERVICE BOARD FACILITIES AND WILL BE CONSTRUCTED AND OPERABLE AS OF JANUARY 2015.
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 16.543, TEXAS WATER CODE IS FILED IN THE OFFICE OF THE COUNTY CLERK, DEED AND RECORD SECTION.
INSTRUMENT No. _____ DATE _____
TAX CERTIFICATE FOR THIS SUBDIVISION ARE FILED IN THE OFFICE OF THE COUNTY CLERK, DEED AND RECORDS SECTION.
INSTRUMENT No. 20150010406-01 DATE 2/18/15
VEHICULAR ACCESS TO THOSE RESIDENTIAL LOTS ABUTTING MIKE PRICE DR., AND RALPH SEITSINGER DR. 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.
INSTRUMENT No. _____ DATE _____
RESTRICTIVE COVENANTS FOR THIS SUBDIVISION ARE FILED IN THE OFFICE OF THE COUNTY CLERK, DEED AND RECORDS SECTION.
INSTRUMENT No. 20150010410 DATE 2/18/15
LOT CORNERS WILL BE SET UP 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. 4802120750, DATED SEPTEMBER 4, 1991 THIS PROPERTY IS IN LENGTH HAZARD ZONE X OUTSIDE THE 500 YEAR FLOOD-PLAIN.
SINGLE FAMILY AND TWO FAMILY RESIDENTIAL STREETS OF LESS THAN 640 FEET IN LENGTH MAY USE THE SMALLER WIDTH WHEN THE FACING LOTS ARE 50 FEET OR WIDER WITH TWO CAR DRIVEWAYS 18 FEET IN WIDTH OR WITH REAR ENTRY FROM ALLEYS. LANES MAY BE USED WHERE THE STREET LENGTH IS LESS THAN 400' AND THE LOTS ARE GREATER THAN 20,000 SQUARE FEET WITH 50 FOOT SETBACKS AND DRIVEWAYS ARE 20 FEET IN WIDTH.
STREET CLASSIFICATION: 48' R.O.W. = 28' LOCAL RESIDENTIAL 2
52' R.O.W. = 32' LOCAL RESIDENTIAL 3
64' R.O.W. = NON-RESIDENTIAL 4 LANE COLLECTOR
122' R.O.W. = MAJOR ARTERIAL STREET
20' ALLEY

SCHOOL DISTRICT
SOCORRO INDEPENDENT SCHOOL DISTRICT
12300 EASTLAKE DRIVE

TOTAL RESIDENTIAL LOTS
361

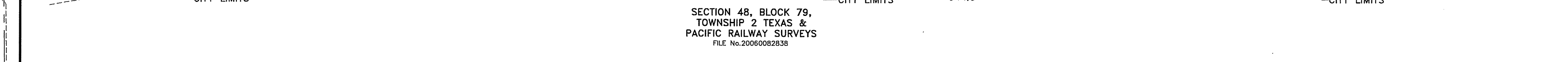
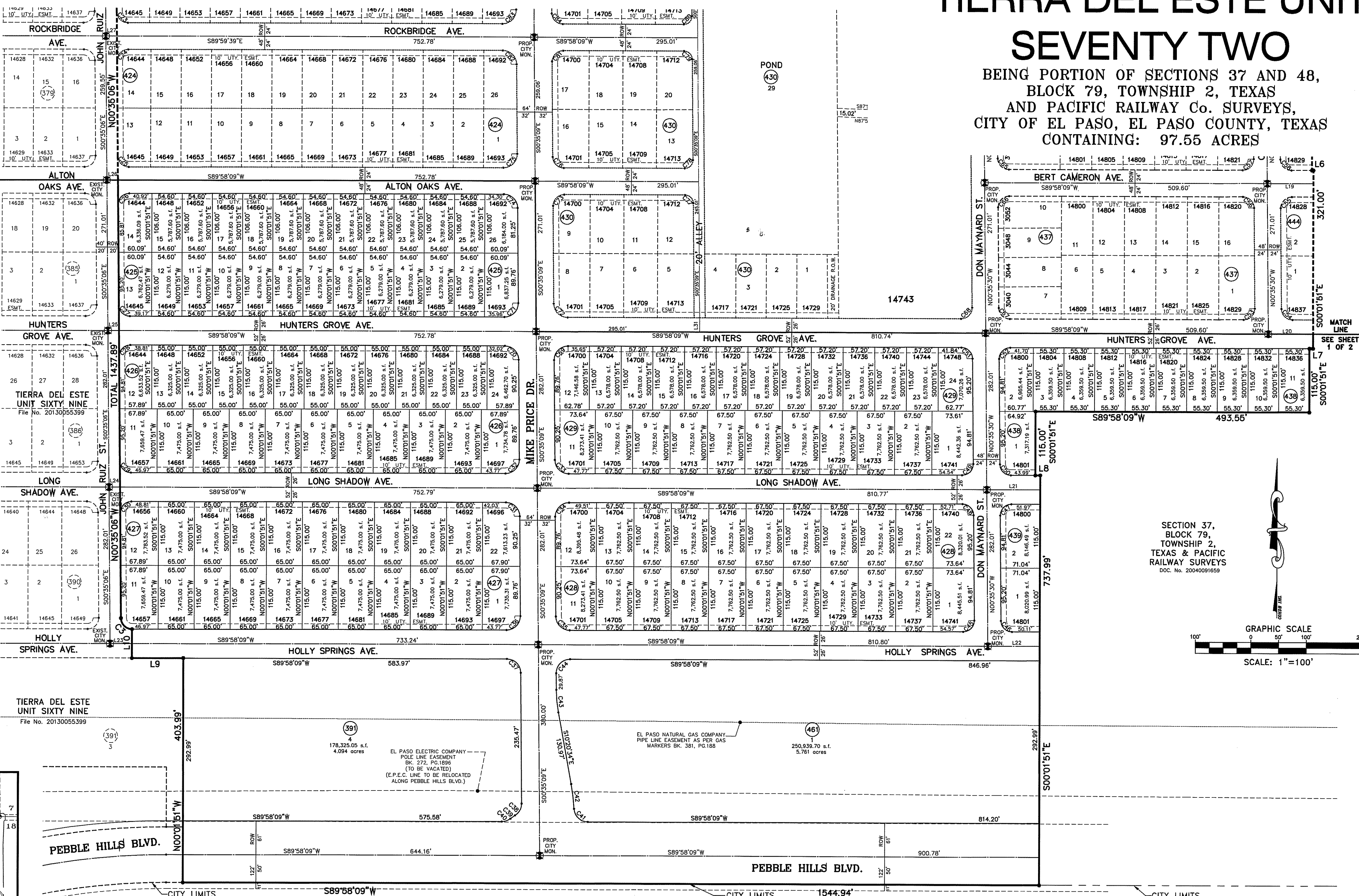
DATE OF PREPARATION: DECEMBER 20, 2011

CONDE INC.
ENGINEERING / PLANNING
CITY / SURVEYING / CAD
8080 SUITE 700, STE 100
EL PASO, TEXAS 79906
PHONE: (915) 992-0600
FAX: (915) 992-0266

Tierra Del Este Unit 72 Notes:
Tierra Del Este Subdivision Unit 72 is subject to the Annexation Agreement entered into by Rancho Real IV, LTD. with the City of El Paso on January 31, 2006. Among other conditions the agreement required the following:
Item #11: Owner agrees to pay a water and wastewater connection fee to the El Paso Water Utilities Department of the City

TIERRA DEL ESTE UNIT SEVENTY TWO

BEING PORTION OF SECTIONS 37 AND 48,
BLOCK 79, TOWNSHIP 2, TEXAS
AND PACIFIC RAILWAY Co. SURVEYS,
CITY OF EL PASO, EL PASO COUNTY, TEXAS
CONTAINING: 97.55 ACRES



TIERRA DEL ESTE UNIT 72 NOTES:
Tierra Del Este Subdivision Unit 72 is subject to the Annexation Agreement entered into by Ranchos Real IV, LTD. with the City of El Paso on January 31, 2006. Among other conditions the agreement required the following:
Item #11 Owner agrees to pay a water and wastewater connection fee to the El Paso Water Utilities Department of the City for each three quarter inch (3/4") equivalent water meter that is connected to the public water system as shown below. The water and wastewater connection fee shall be increased by three (3) percent on March 1, 2006, and each year thereafter. Payment of the water and wastewater connection fee shall be due at the time of application for water and wastewater to the system.

Meter Size	Water (\$)	Wastewater (\$)
5/8" x 3/4"	566	328
1 1/2"	1,396	809
2"	2,830	1,640
3"	4,528	2,624
4"	9,056	5,248
6"	14,150	8,200
8"	28,300	16,400
10"	52,827	30,613
	75,487	43,733

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 PANEL # 480212 0175 B, DATED SEPTEMBER 4, 1991 THIS PROPERTY IS IN FLOOD HAZARD ZONE X OUTSIDE THE 500 YEAR FLOOD-PLAIN.
SINGLE FAMILY AND TWO FAMILY RESIDENTIAL STREETS OF LESS THAN 640 FEET IN LENGTH MAY USE THE SMALLER WIDTH WHEN THE FACING LOTS ARE 50 FEET OR WIDER WITH TWO CAR DRIVEWAYS 10 FEET IN WIDTH OR WITH REAR ENTRY FROM ALLEYS. LANES MAY BE USED WHERE THE STREET LENGTH IS LESS THAN 400 FEET AND THE LOTS ARE GREATER THAN 20,000 SQUARE FEET WITH 50 FOOT SETBACKS AND DRIVEWAYS ARE 20 FEET IN WIDTH.
STREET CLASSIFICATION: 48' R.O.W. = 28' LOCAL RESIDENTIAL 2.
52' R.O.W. = 32' LOCAL RESIDENTIAL 3.
64' R.O.W. = NON-RESIDENTIAL 4 LANE COLLECTOR.
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20' ALLEY

SCHOOL DISTRICT
SOCORRO INDEPENDENT SCHOOL DISTRICT
12300 EASTLAKE DRIVE

TOTAL RESIDENTIAL LOTS
361

ATTEST: NOT REQUIRED
ACKNOWLEDGEMENT
STATE OF TEXAS
COUNTY OF EL PASO
Before me, the undersigned authority, on this day personally appeared Douglas A. Schwartz, Mayor of RANCHOS REAL XVI, L.L.C., ON BEHALF OF SAID LIMITED LIABILITY COMPANY, known to me to be the person whose name is subscribed to the foregoing instrument and acknowledged to me that he executed the same as the act and deed of said company for the purpose and considerations herein expressed.
Given under my hand and seal of office this 18th day of December, 2014.
Susan McMillan
Notary Public
My Commission Expires MARCH 16, 2017

DATE OF PREPARATION: DECEMBER 20, 2011
CONDE INC.
ENGINEERING / PLANNING
CITY / SURVEYING / CAD
6080 SURETY DR. STE 100
EL PASO, TEXAS 79905
PHONE: (915) 592-0283
FAX: (915) 592-0286

SUSAN McMILLAN
NOTARY PUBLIC
My Commission Expires
MARCH 16, 2017

CURVE TABLE

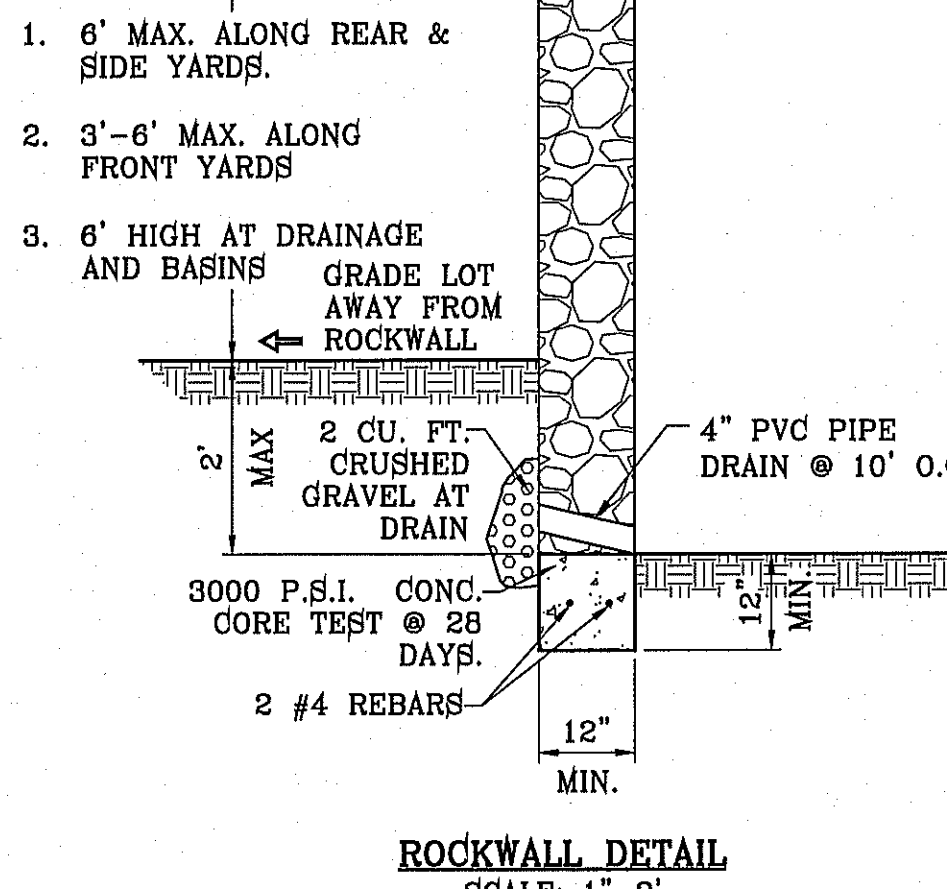
CURVE	RADIUS	LENGTH	TANGENT	CHORD	BEARING	DELTA
C1	25.00	39.01	24.74	35.17	S45°17'24"E	89°24'30"
C2	25.00	39.53	25.26	35.54	N44°42'36"E	90°35'30"
C3	20.00	31.22	19.81	28.15	N45°18'29"W	89°26'45"
C4	20.00	31.21	19.79	28.14	N45°17'23"W	89°24'33"
C5	25.00	39.53	25.26	35.54	N44°42'37"E	90°35'27"
C6	25.00	17.90	9.35	17.52	N69°28'49"W	41°01'40"
C7	25.00	21.21	11.83	20.49	N24°46'34"W	48°22'50"
C8	40.00	11.43	5.75	11.39	N81°49'16"E	18°22'09"
C9	40.00	5.76	2.89	5.76	N69°30'40"E	81°03'03"
C10	70.00	44.19	22.86	43.46	S83°28'15"W	36°10'13"
C11	70.00	40.02	20.57	39.48	N29°18'41"W	32°45'18"
C12	70.00	47.39	24.64	46.49	N06°27'33"E	38°47'09"
C13	40.00	2.31	1.16	2.31	S44°11'46"W	31°41'43"
C14	40.00	16.14	8.18	16.04	S44°11'46"W	23°07'31"
C15	30.00	46.81	29.69	42.21	N45°17'23"W	89°24'33"
C16	20.00	31.62	20.21	28.43	N44°42'37"E	90°35'27"
C17	20.00	31.21	19.79	28.14	S45°17'23"E	89°24'33"
C18	20.00	31.21	19.79	28.14	S45°17'23"E	89°24'33"
C19	25.00	39.53	25.26	35.54	N44°42'36"E	90°35'30"
C20	25.00	39.01	24.74	35.17	N45°17'24"E	89°24'30"
C21	25.00	31.21	19.79	28.14	N45°17'23"E	89°24'33"
C22	20.00	31.62	20.21	28.43	S44°42'37"E	90°35'27"
C23	20.00	31.21	19.79	28.14	S45°17'23"E	89°24'33"
C24	20.00	31.62	20.21	28.43	S44°42'37"E	90°35'27"
C25	20.00	31.22	19.81	28.15	S45°18'29"E	89°26'45"
C26	20.00	31.61	20.19	28.42	S44°41'31"W	90°33'15"
C27	20.00	31.22	19.81	28.15	S45°18'29"E	89°26'45"
C28	20.00	31.21	19.79	28.14	S44°41'31"W	90°33'18"
C29	20.00	31.22	19.81	28.15	S45°18'29"E	89°26'45"
C30	20.00	31.61	20.19	28.42	S44°41'31"W	90°33'15"
C31	25.00	39.03	24.76	35.18	N45°18'30"W	89°26'42"
C32	25.00	39.51	25.24	35.53	N44°41'30"W	90°33'18"
C33	25.00	39.03	24.76	35.18	S45°18'30"W	89°26'42"
C34	25.00	39.51	25.24	35.53	N44°41'30"W	90°33'18"
C35	25.00	39.03	24.76	35.18	N45°18'30"W	89°26'42"
C36	25.00	39.51	25.24	35.53	N44°41'30"W	90°33'18"
C37	25.00	39.03	24.76	35.18	S45°18'30"W	89°26'42"
C38	25.00	25.65	14.08	24.54	N28°48'32"E	58°47'23"
C39	85.00	10.10	5.06	10.09	S54°48'00"W	6°48'26"
C40	25.00	16.83	8.75	16.51	N70°40'58"E	38°34'22"
C41	25.00	37.99	23.75	34.43	S46°30'15"E	87°03'12"
C42	350.00	44.99	22.53	44.96	N06°39'37"W	7°21'55"
C43	240.00	40.87	20.48	40.82	S05°27'52"E	9°45'25"
C44	25.00	39.51	25.24	35.53	S44°41'30"W	90°33'18"
C45	20.00	31.61	20.20	28.42	N44°41'20"E	90°33'38"
C46	20.00	31.22	19.81	28.15	S45°18'40"W	89°26'22"
C47	20.00	31.61	20.20	28.42	S44°41'20"E	90°33'38"
C48	20.00	31.22	19.81	28.15	N45°18'40"W	89°26'22"
C49	20.00	31.61	20.20	28.42	N44°41'20"E	90°33'38"
C50	20.00	31.22	19.81	28.15	S45°18'40"W	89°26'22"
C51	20.00	31.22	19.81	28.15	N45°18'40"W	89°26'22"
C52	20.00	31.61	20.20	28.42	S44°41'20"E	90°33'38"
C53	20.00	31.61	20.20	28.42	N44°41'20"E	90°33'38"
C54	20.00	31.22	19.81	28.15	N45°18'40"W	89°26'22"
C55	20.00	31.61	20.20	28.42	N44°41'20"E	90°33'38"
C56	20.00	31.22	19.81	28.15	N45°18'40"W	89°26'22"
C57	20.00	31.61	20.20	28.42	N44°41'20"E	90°33'38"
C58	20.00	31.22	19.81	28.15	N45°18'40"W	89°26'22"
C59	20.00	31.61	20.20	28.42	N44°41'20"E	90°33'38"
C60	20.00	31.22	19.81	28.15	N45°18'40"W	89°26'22"
C61	20.00	31.61	20.20	28.42	N44°41'20"E	90°33'38"
C62	20.00	31.22	19.81	28.15	N45°18'40"W	89°26'22"
C63	20.00	31.22	19.81	28.15	S45°18'40"W	89°26'22"
C64	20.00	31.61	20.20	28.42	S44°41'20"E	90°33'38"
C65	20.00	31.22	19.81	28.15	S45°18'40"W	89°26'22"
C66	20.00	31.61	20.20	28.42	S44°41'20"E	90°33'38"
C67	20.00	31.22	19.81	28.15	S45°18'40"W	89°26'22"
C68	20.00	31.61	20.20	28.42	N44°41'20"E	90°33'38"
C69	25.00	39.51	25.24	35.53	S44°41'30"W	90°33'18"
C70	25.00	39.03	24.76	35.18	S45°18'30"W	89°26'42"
C71	25.00	39.51	25.24	35.53	N44°41'30"E	90°33'18"
C72	25.00	39.03	24.76	35.18	S45°18'30"W	89°26'42"
C73	20.00	31.61	20.19	28.42	S44°41'30"W	90°33'18"
C74	25.00	39.03	24.76	35.18	N45°18'30"W	89°26'42"
C75	25.00	39.51	25.24	35.53	N44°41'30"E	90°33'18"

LINE TABLE

LINE	LENGTH	BEARING
L1	64.01	N01°02'53"W
L2	1.71	S89°58'09"W
L3	1.71	S89°58'09"W
L4	2.85	S89°58'09"W
L5	2.53	N89°58'09"E
L6	2.54	N89°58'09"E
L7	6.40	S89°58'09"W
L8	8.88	S89°58'09"W
L9	92.76	S89°58'09"W
L10	52.00	N00°01'51"W
L11	16.56	N89°58'39"W
L12	65.95	N00°35'06"W
L13	57.00	S00°35'09"E
L14	57.00	S89°58'39"E
L15	83.17	S89°58'39"E
L16	83.14	S89°58'39"E
L17	83.31	S89°58'39"E
L18	83.30	S89°58'09"W
L19	83.31	S89°58'09"W
L20	80.66	S89°58'09"W

CURVE TABLE

CURVE	RADIUS	LENGTH	TANGENT	CHORD	BEARING	DELTA
C76	20.00	31.22	19.81	28.15	S45°18'30"E	89°26'42"
C77	15.00	23.42	14.86	21.11	N45°18'30"W	89°26'42"
C78	15.00	23.41	14.85	21.32	N44°41'30"E	90°33'18"
C79	15.00	23.42	14.86	21.11	N45°18'30"W	89°26'42"
C80	15.00	23.71	15.15	21.32	N44°41'30"E	90°33'18"
C81	20.00	31.61	20.19	28.42	S44°41'30"W	90°33'18"
C82	25.00	39.01	24.74	35.17	N45°18'29"E	89°24'30"
C83	25.00	39.53	25.26	35.54	N44°42'36"E	90°35'30"
C84	20.00	31.22	19.81	28.15	S45°18'30"W	89°26'42"
C85	25.00	39.53	25.26	35.54	S44°42'36"W	90°35'30"
C86	25.00	39.01	24.74	35.17	S45°17'24"E	89°24'30"
C87	20.00	31.62	20.21	28.43	N44°42'36"E	90°35'30"
C88	20.00	31.21	19.79	28.14	S45°17'24"E	89°24'30"
C89	20.00	47.43	24.74	42.64	S44°42'36"E	90°35'30"
C90	40.00	21.13	10.62	20.89	N15°43'20"W	30°16'22"
C91	70.00	1.30	0.65	1.30	S30°19'28"E	1°04'05"
C92	70.00	49.84	25.91	48.60	S09°28'33"E	40°37'47"
C93	70.00	39.48	20.28	38.96	S26°59'42"W	32°18'43"
C94	70.00	39.48	20.28	38.96	S69°18'25"W	32°18'43"
C95	70.00	47.80	24.88	46.88	N84°58'25"W	39°07'36"
C96	70.00	1.54	0.77	1.54	N64°48'53"W	11°29'01"
C97	40.00	18.04	9.18	17.89	S77°04'24"E	25°50'31"
C98	25.00	13.43	6.88	13.27	S14°48'07"W	30°46'32"
C99	25.00	26.10	14.38	24.93	S60°05'52"W	59°48'58"
C100	25.00	39.01	24.74	35.17	N45°17'24"W	89°24'30"
C101	25.00	39.53	25.26	35.54	S44°42'36"W	90°35'30"
C102	20.00	31.21	19.79	28.14	N45°17'24"E	89°24'30"
C103	20.00	31.62	20.21	28.43	S44°42'36"E	90°35'30"
C104	20.00	31.21	19.79	28.14	N45°17'24"W	89°24'30"
C105	20.00	31.62	20.21	28.43	S44°42'36"W	90°35'30"
C106	20.00	31.62	20.21	28.43	N44°42'36"E	90°35'30"
C107	20.00	31.21	19.79	28.14	S45°17'24"E	89°24'30"
C108	20.00	31.21	19.79	28.14	N45°17'35"W	89°24'10"
C109	20.00	31.62	20.21	28.43	S44°42'25"W	90°35'50"
C110	20.00	31.21	19.79	28.14	N45°17'35"W	89°24'10"
C111	20.00	31.62	20.21	28.43	N44°42'25"E	90°35'50"
C112	20.00	31.21	19.79	28.14	N45°17'35"W	89°24'10"
C113	20.00	31.62	20.21	28.43	N44°42'25"E	90°35'50"
C114	20.00	31.21	19.79	28.14	N45°17'35"W	89°24'10"
C115	20.00	31.62	20.21	28.43	N44°42'25"E	90°35'50"
C116	20.00	31.21	19.79	28.14	N45°17'35"W	89°24'10"
C117	20.00	31.62	20.21	28.43	N44°42'25"E	90°35'50"
C118	25.00	39.01	24.74	35.17	N45°17'35"W	89°24'10"
C119	25.00	39.53	25.26	35.54	N44°42'25"E	90°35'50"

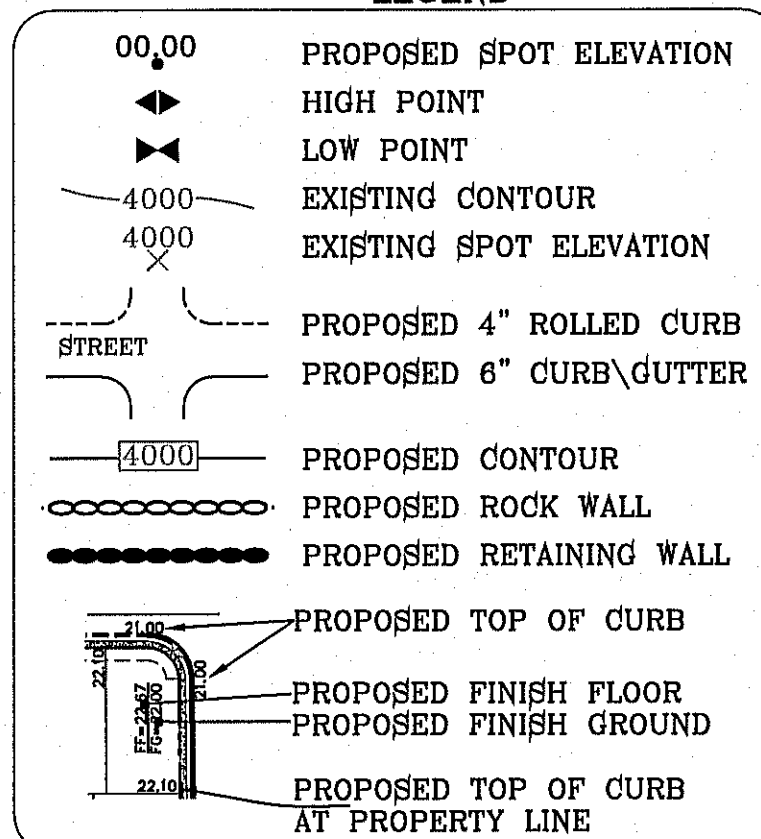


ROCKWALL DETAIL
SCALE: 1"=2'

ROCKWALL NOTES:

1. STONE FOR ROCKWALLS SHALL BE AS NEARLY UNIFORM IN SECTIONS AS IS PRACTICABLE. THE STONE SHALL BE DENSE AND RESISTANT OF AIR AND WATER.
2. MORTAR MUST BE TYPE "S" 1800 P.S.I. AS PER ASTM C270.
3. MASONRY WALLS OVER SIX (6) FEET IN HEIGHT AND THOSE USED FOR EARTH RETENTION OVER TWO (2) FEET MUST BE DESIGNED AS STRUCTURAL WALLS.
4. 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.
5. ROCKWALL MORTAR JOINTS MUST NOT EXCEED TWO (2) INCHES.
6. PROVIDE ONE (1) INCH EXPANSION JOINTS AT EVERY 100 FEET.
7. ALL STONE SHALL BE THOROUGHLY SOAKED BEFORE BEING PLACED.
8. NO RIVER ROCK SHALL BE ALLOWED.

LEGEND

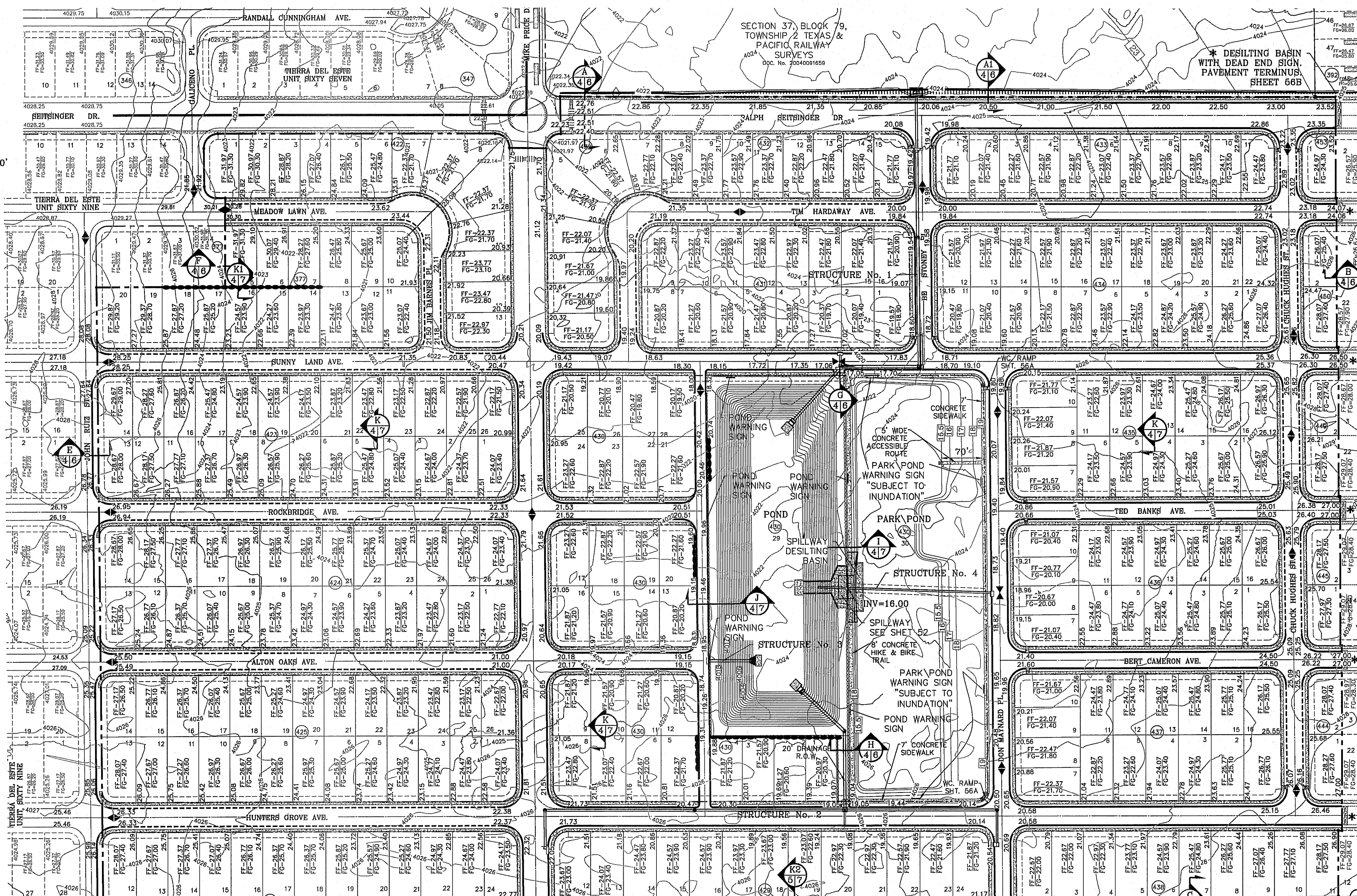


SEE SHEET 47-64 FOR STRUCTURES & POND

NOTE:

HEREON DESCRIBED TRACT LIES IN ZONE X COMMUNITY PANEL NO. 480212 01768 DATED SEPTEMBER 4, 1991.

SCALE: 1"=100'



MATCH LINE
SEE SHEET 5

MATCH LINE
SEE SHEET 5

CONSTRUCTION ACTIVITY REQUIREMENTS:

1. 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 SITES COVERED BY THE GRADING PERMIT SHALL BE ALLOWED.
2. 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.
3. CONSTRUCTION EQUIPMENT AND FENCING SHALL BE KEPT OUT OF WATERCOURSES EXCEPT WHEN NECESSARY TO PERFORM WORK ON THE APPROVED PLANS. ADEQUATE BY PASS 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.
4. WHERE A DRAINAGE WAY WILL BE CROSSED BY CONSTRUCTION VEHICLES REGULARLY DURING CONSTRUCTION, A TEMPORARY CROSSING SHALL BE CONSTRUCTED.
5. 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 CONDUCTED.
6. TRAFFIC CONTROL PERMIT AND/OR FLAGMEN MAY BE REQUIRED AS PART OF THE GRADING PERMIT.
7. ANY USE OF VIBRATORY EQUIPMENT SHALL BE APPROVED IN WRITING BY THE DIRECTOR IN ADVANCE OF SUCH USE 18.44.220 - 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 THE PERMIT OFFICIAL TO ESTABLISH THE BEGINNING OF THE WARRANTY PERIOD AND TO NOTIFY THE PERMIT OFFICIAL THAT THE OSP 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.

THE CITY WILL ISSUE A LETTER STATING GENERAL CONFORMANCE TO THE PERMIT IF BEEN MET AND THAT THE WARRANTY PERIOD REQUIREMENTS WILL CONTINUE TO BE IN EFFECT.

18.44.090 - WARRANTY:

ANY PERSON ISSUED A PERMIT SHALL AGREE WARRANTY 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 18.44.220, OR UNTIL A BUILDING PERMIT IS ISSUED FOR THE PURPOSE OF MAINTAINING A STABILIZED SITE IN ACCORDANCE WITH THE APPROVED OSP, 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.

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 APPLICANT 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 FLAGGER TYPE BARRICADES WITH STRINGERS PLACED BETWEEN THE POFS OF THE BARRICADES.
11. DEVELOPER SHALL COMPLY WITH SECTION 13.08.170 "EXCESSIVE PAVING CUTS" AS PER EL PASO MUNICIPAL CODE.

GENERAL EARTHWORK NOTES:

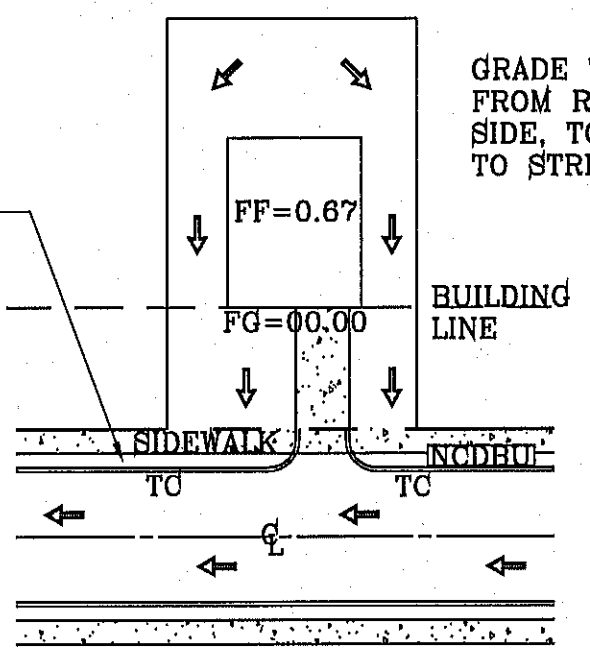
1. ALL GRADING SHALL CONFORM TO THE CITY OF EL PASO GRADING ORDINANCE SECTION 18.44.
2. THE CONTRACTOR SHALL CARRY ON HIS WORK WITH SPECIAL CARE AT ALL TIMES TO MAINTAIN THE NATURAL SURROUNDINGS AND EXISTING STRUCTURES IN AN UNDAMAGED CONDITION.

3. NATURAL SUBGRADES TO SUPPORT STRUCTURAL FILL OR PAVEMENTS SHOULD BE STRIPPED OF ALL VEGETATION OR ORGANIC TOPSOIL. THE EXPOSED SUBGRADE SHOULD BE SCARPED JUST PRIOR TO FILL PLACEMENT TO A MINIMUM DEPTH OF 6 INCHES AND RECOMPACTED TO A MINIMUM OF 95% 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.
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 P.S.I. 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.

ALL UTILITIES SHALL BE PLACED IN PARKWAY. NO UTILITIES SHALL BE PLACED ON SIDEWALKS (I.E., NCDPU'S, FIRE HYDRANTS, LIGHT POLES, SIGNS, POWER POLES, ETC....)



TYPICAL LOT GRADING
SCALE: 1"=40'

FILE LOCATION S:\Subdivisions\YDE\72\YDE 72-DPL PLOTTED ON Monday, May 12, 2014 11:11:11 AM BY ROGER ORTEGA

CONDE INC.
ENGINEERING / PLANNING / SURVEYING / GPS
6080 SURETY DR. STE 100
EL PASO, TEXAS 79905
PHONE: (915) 592-0283
FAX: (915) 592-0288

CONDE INC.
REGISTRATION No. F-2321

SHEET TITLE
GRADING PLAN

SHT 4 OF 70

PROJECT NAME
TERRA DEL ESTE UNIT SEVENTY TWO

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

DATE: SEPT. 2013
DESIGN BY: Y.C.
INITIATED BY: R.O.
CHECKED BY: Y.C.
JOB NO.: 112-08

REVISIONS

NO.	DATE	DESCRIPTION
1	10-29-2013	CITY REDLINES-PARK GRABES
2	1-13-2014	CITY REDLINES-mile

BY: R.O.
R.O.

CITY MONUMENT AT THE CENTERLINE INTERSECTION OF RALPH SEITZINGER DR. AND CALLEJON P.L. ELEVATION 4025.95 CITY DATUM

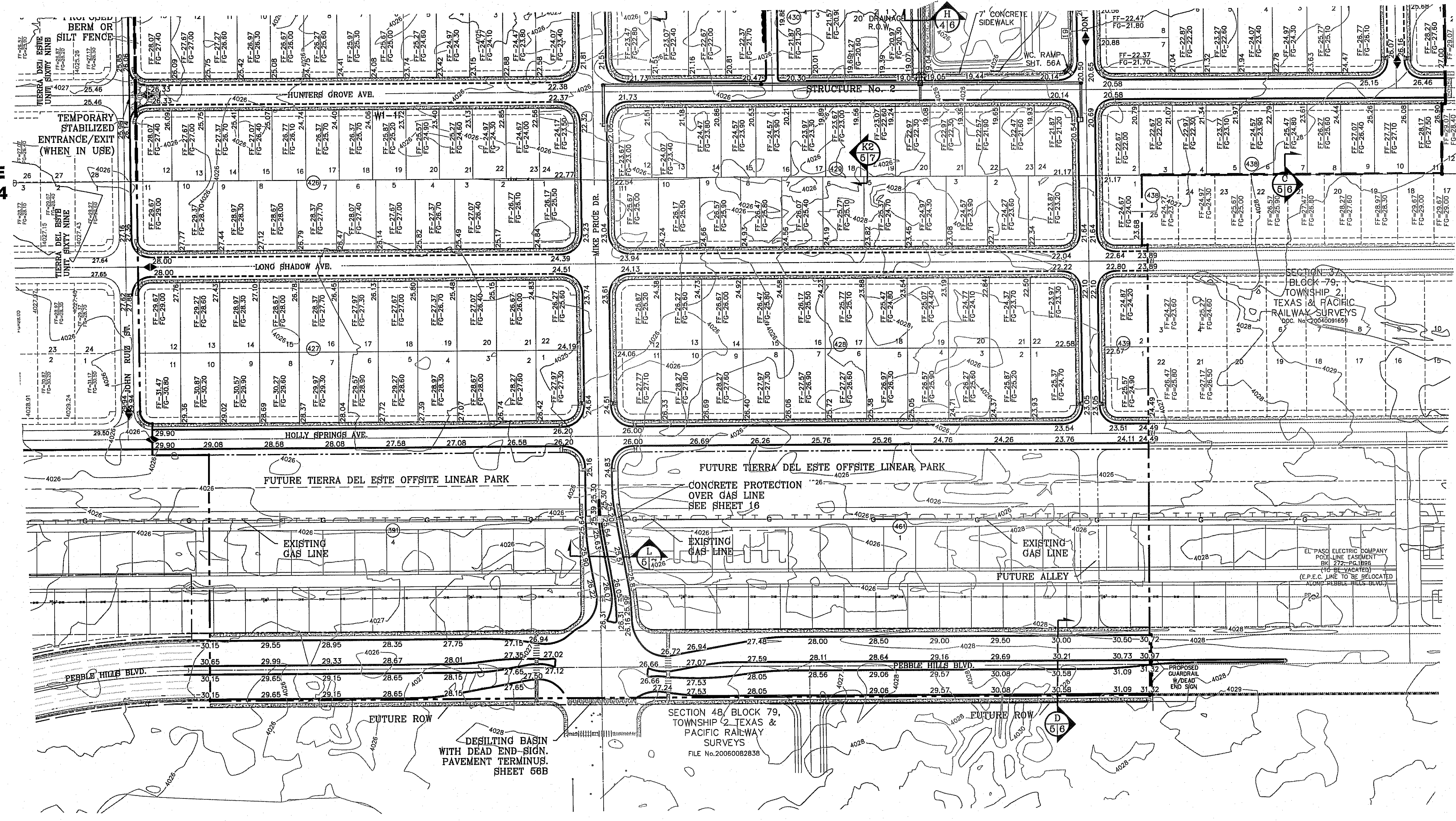
BENCHMARK

*** DESILTING BASIN WITH DEAD END SIGN. PAVEMENT TERMINUS. SHEET 66B**

SECTION 37, BLOCK 79, TOWNSHIP 2, TEXAS & PACIFIC RAILWAY SURVEYS
D.C. No. 20040091650

BRING PORTION OF SECTIONS 37 AND 48, BLOCK 79, TOWNSHIP 2, TEXAS AND PACIFIC RAILWAY CO. SURVEYS, CITY OF EL PASO, EL PASO COUNTY, TEXAS CONTAINING: 97.501± ACRES

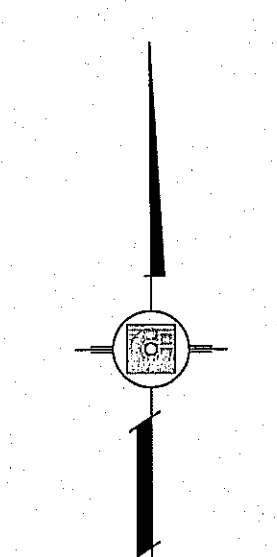
FILE LOCATION: S:\Subdivisions\TDE 72\TDE 72-GDPI_PLOTTED ON Monday, May 12, 2014 11:11:18 AM BY ROGER ORTEGA



MATCH LINE
SEE SHEET 4

MATCH LINE
SEE SHEET 4

SCALE: 1"=100'



LEGEND

00.00	PROPOSED SPOT ELEVATION
▲	HIGH POINT
▼	LOW POINT
— 4000	EXISTING CONTOUR
4000	EXISTING SPOT ELEVATION
—	PROPOSED 4" ROLLED CURB
—	PROPOSED 6" CURB/GUTTER
—	PROPOSED CONTOUR
—	PROPOSED ROCK WALL
—	PROPOSED RETAINING WALL
—	PROPOSED TOP OF CURB
—	PROPOSED FINISH FLOOR
—	PROPOSED FINISH GROUND
—	PROPOSED TOP OF CURB AT PROPERTY LINE

SEE SHEET 47-64 FOR
STRUCTURES & POND

NOTE:
HEREON DESCRIBED TRACT
LIES IN ZONE X, COMMUNITY
PANEL NO. 480212 0176B.
DATED SEPTEMBER 4, 1991.

DETAIL No.
SECTION DETAIL SHEET
SECTION REFERENCE SHEET



BENCHMARK

CITY MONUMENT AT THE CENTERLINE INTERSECTION OF
RALPH SHUTSINGER DR. AND CALICENO PL.
ELEVATION 4025.98CITY DATUM

DATE	REVISIONS
10-20-2013	CITY REDLINES--PARK GRADES
1-19-2014	3rd CITY REDLINES misc

BY
R.O.

PROJECT NAME
**TIERRA DEL ESTE
UNIT SEVENTY TWO**

BEING PORTION OF SECTIONS 37 AND 48, BLOCK 79,
TOWNSHIP 2, TEXAS AND PACIFIC RAILWAY Co. SURVEYS,
CITY OF EL PASO, EL PASO COUNTY, TEXAS
CONTAINING: 97.561± ACRES

ENGINEER'S SEAL

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

DATE: SEPT. 2013
DESIGN BY: Y.C.
INITIATED BY: R.O.
CHECKED BY: Y.C.
JOB NO.: 112-08

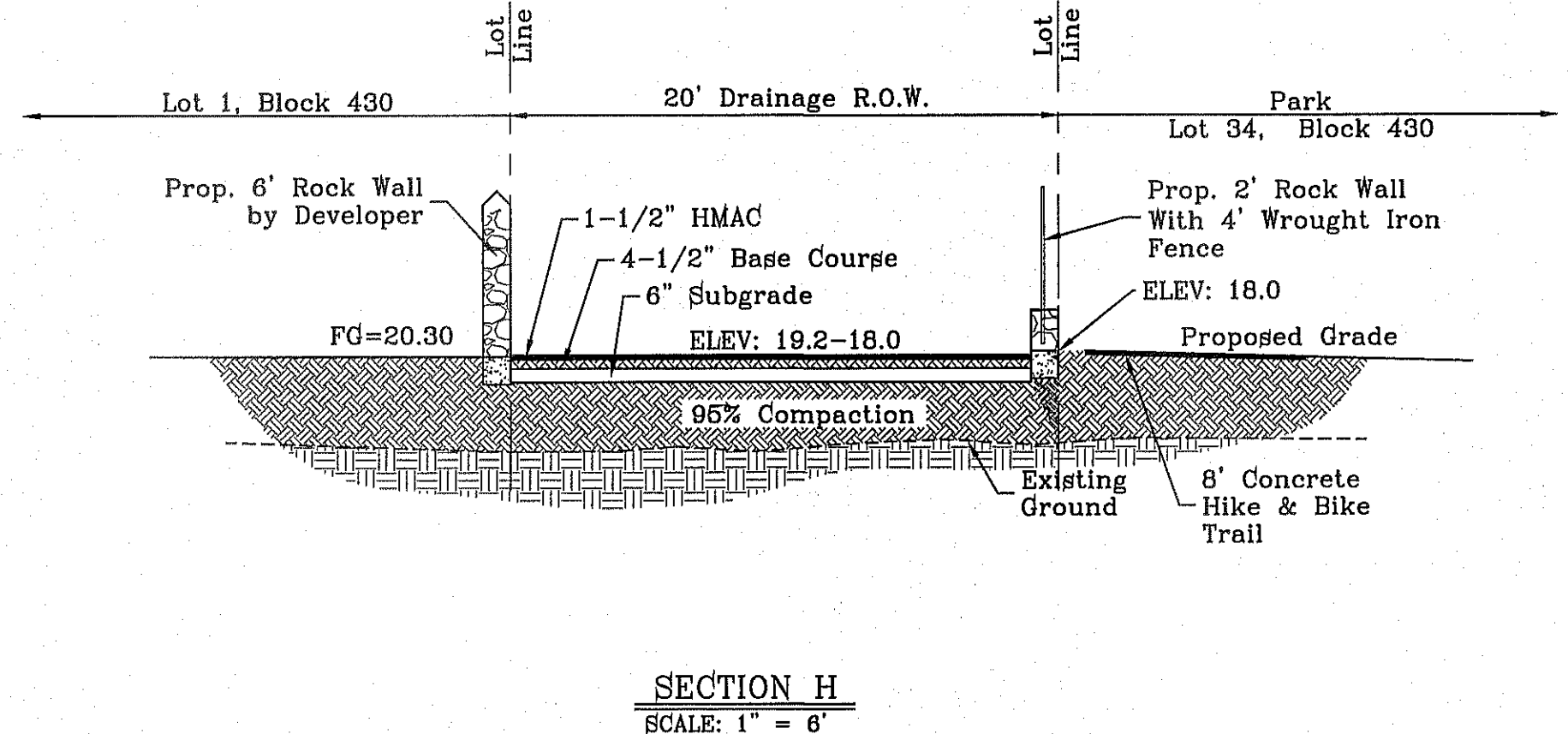
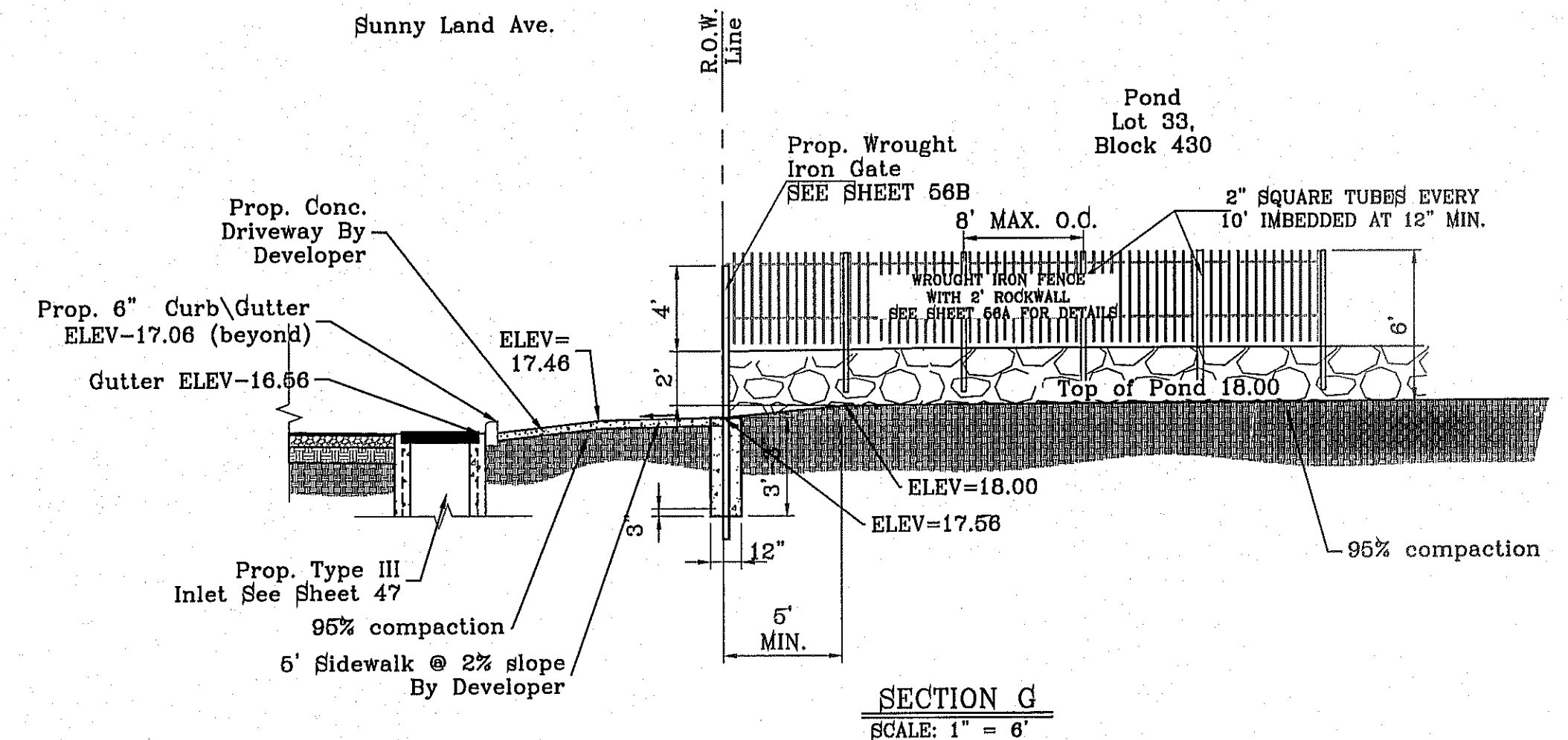
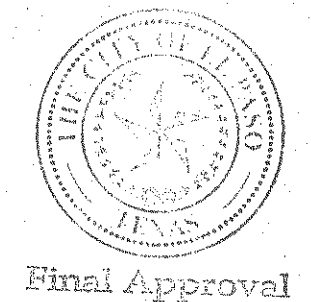
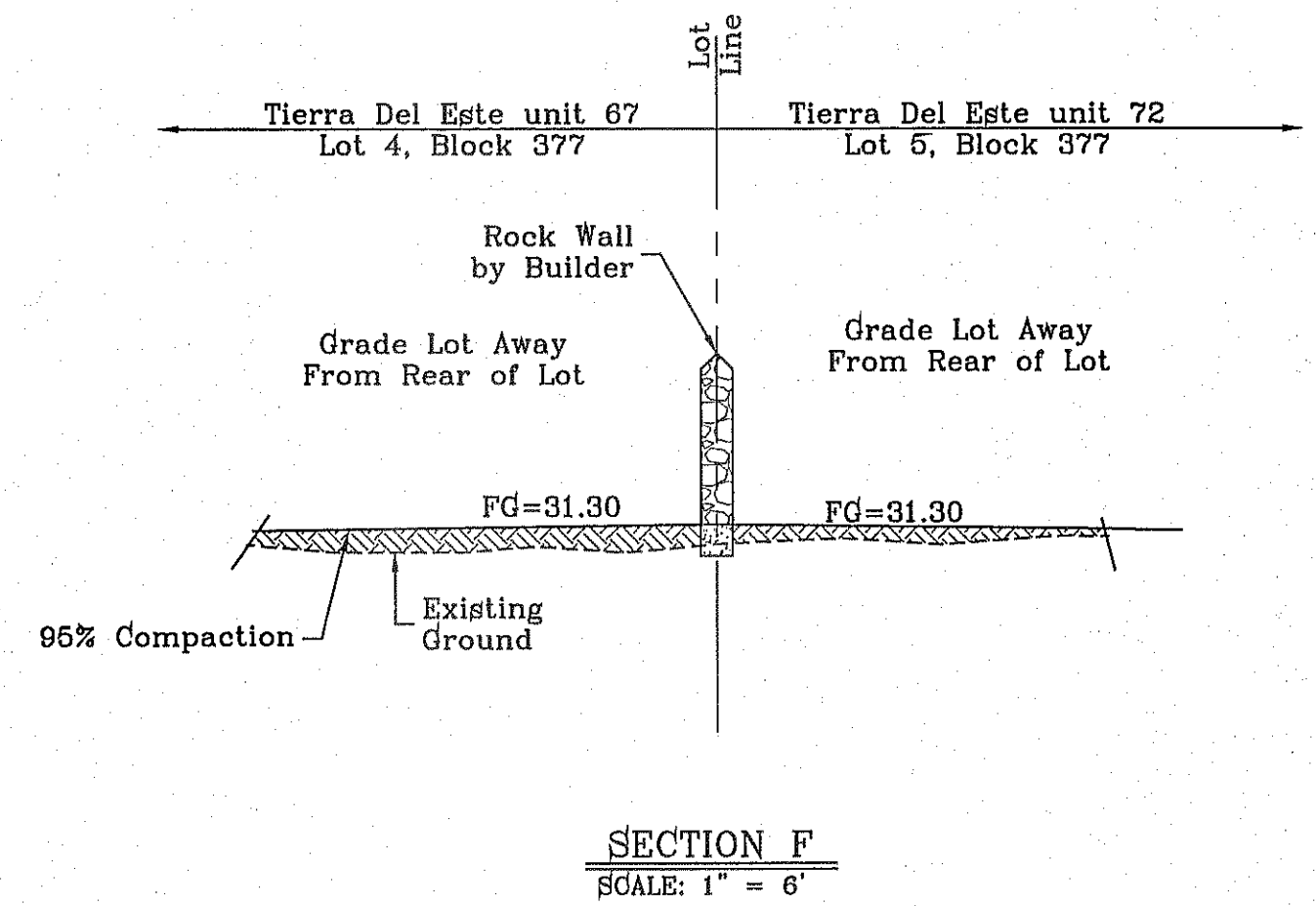
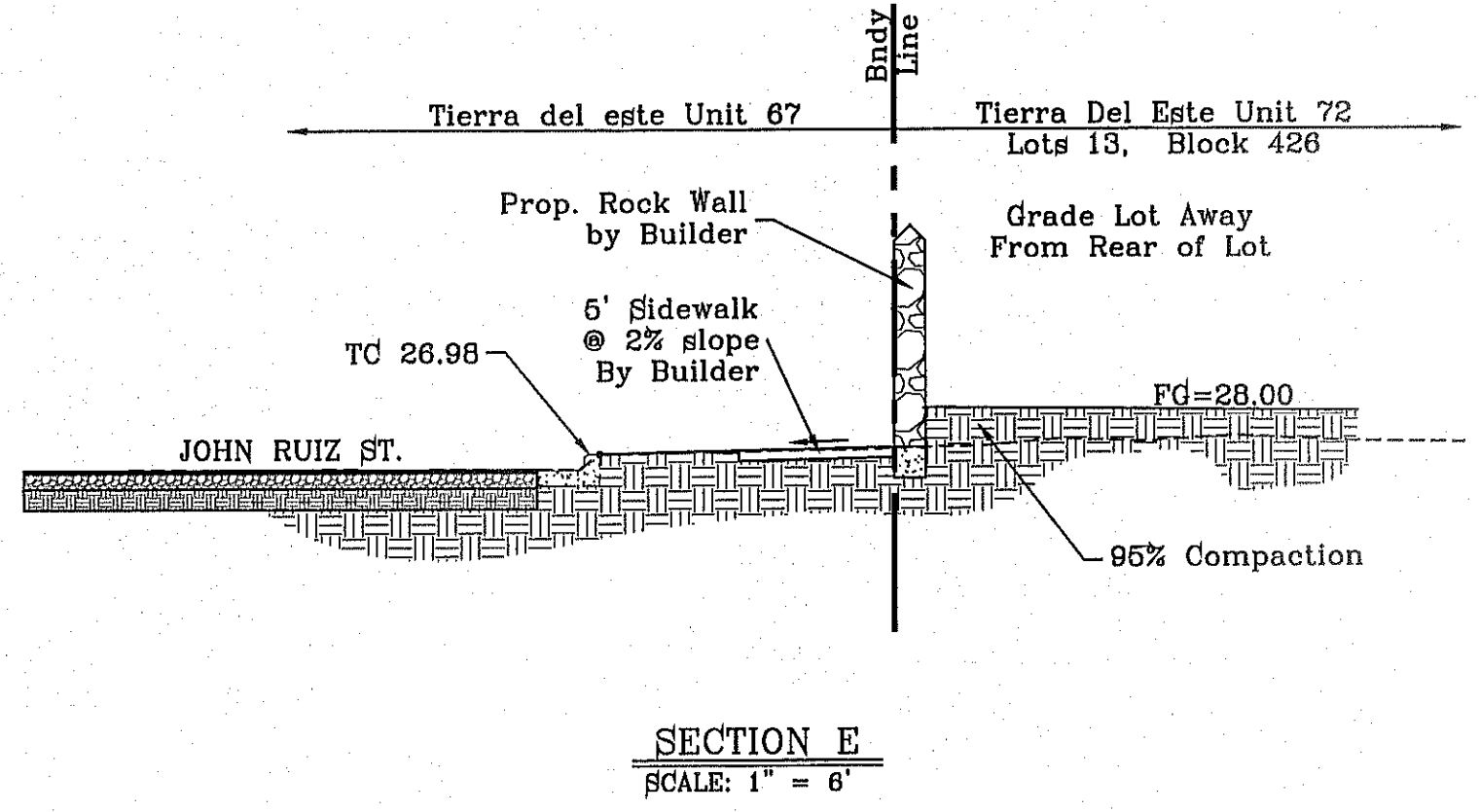
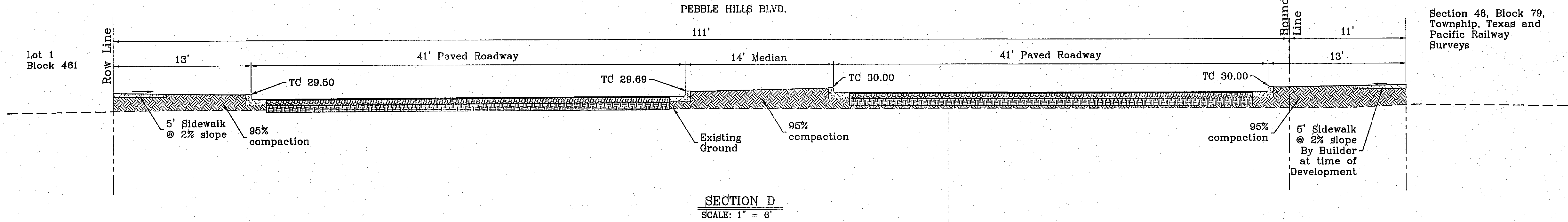
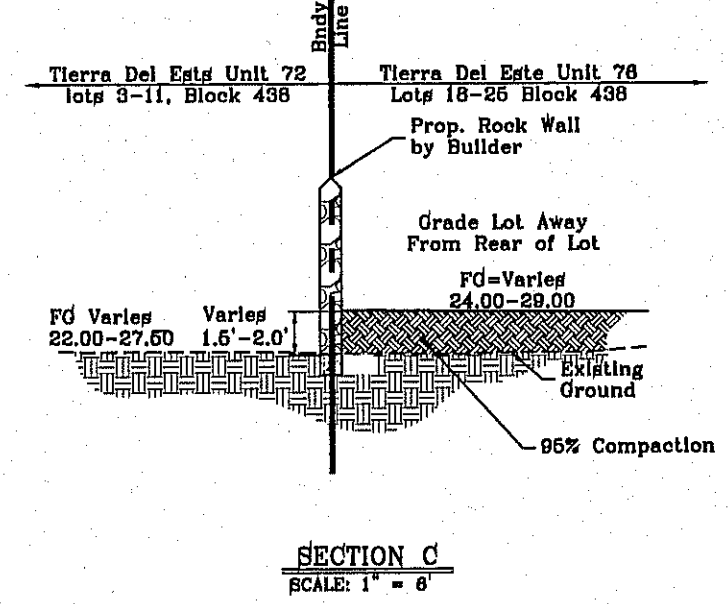
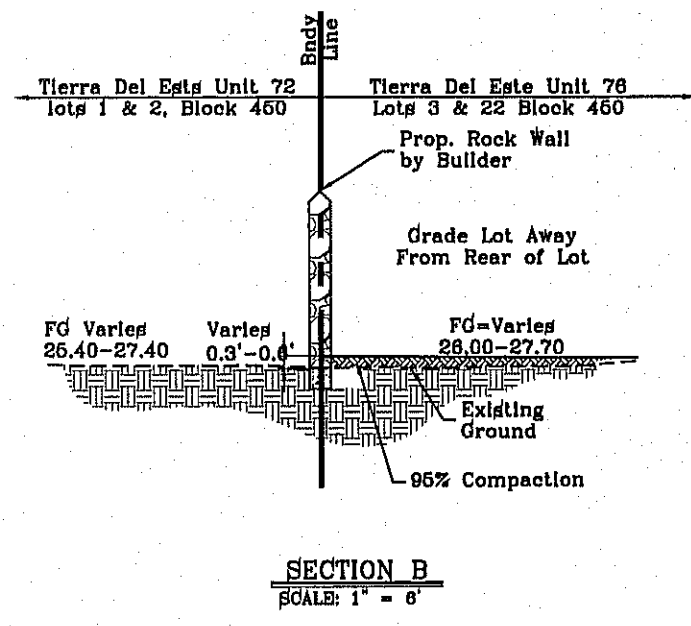
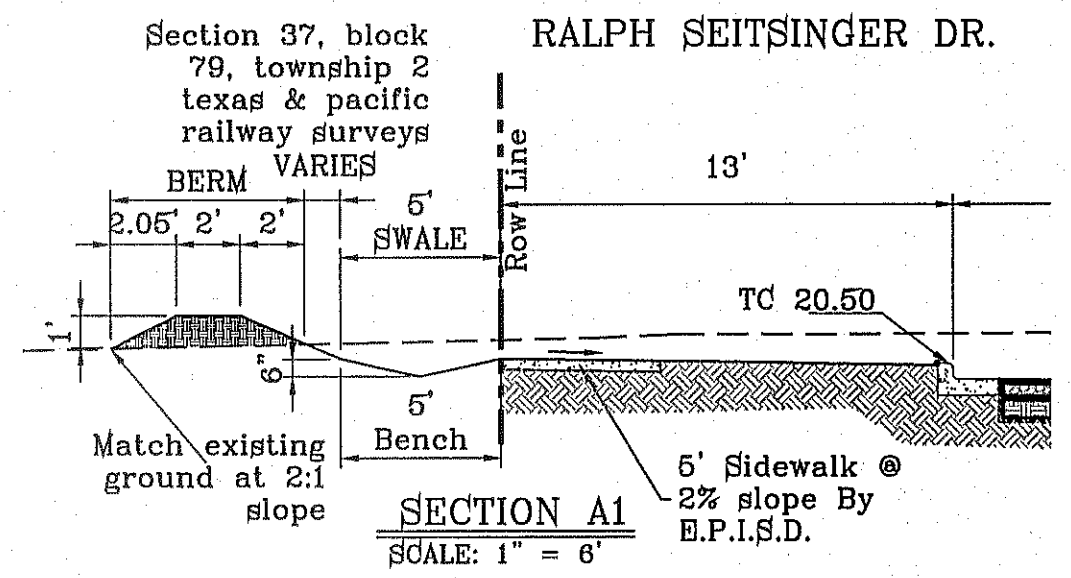
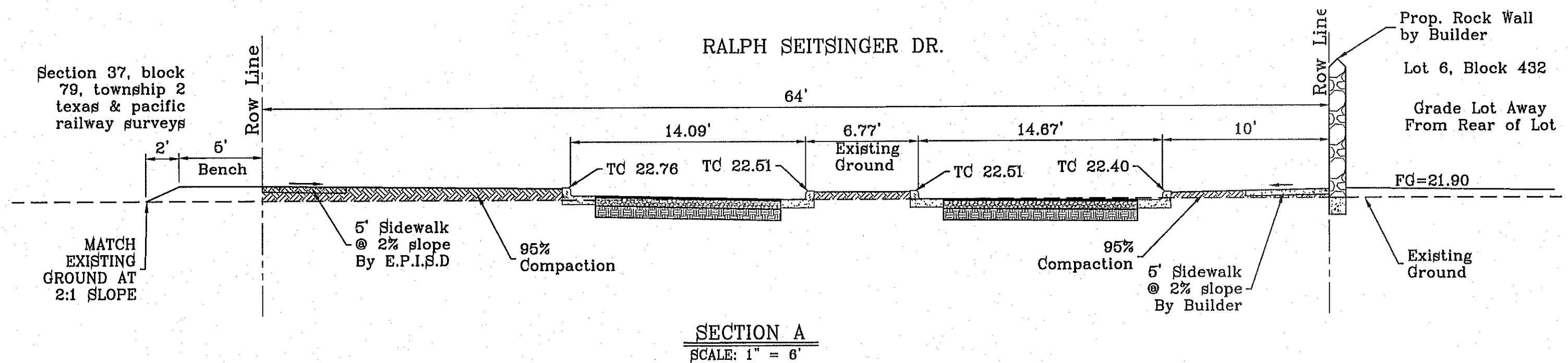
CONDE INC.
ENGINEERING / PLANNING
SURVEYING / GPS
6080 SURVEY DR. STE 100
EL PASO, TEXAS 79905
PHONE: (915) 592-0283
FAX: (915) 592-0288

CONDE INC.
REGISTRATION No. F-2321

SHEET TITLE

**GRADING
PLAN**

SHT 5 OF 70



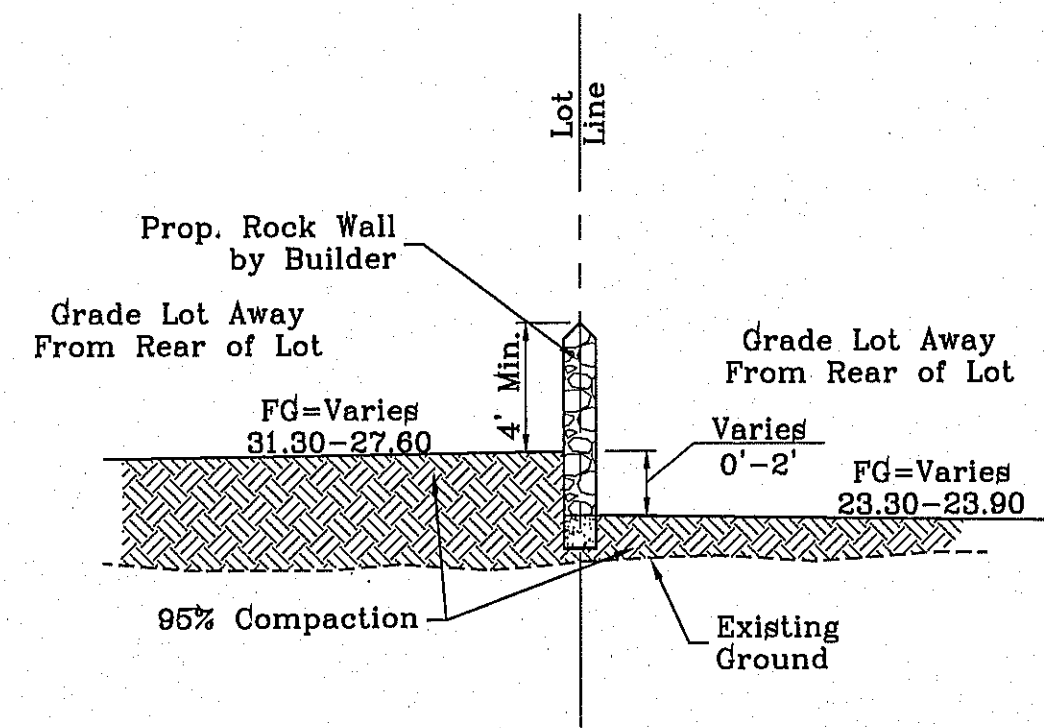
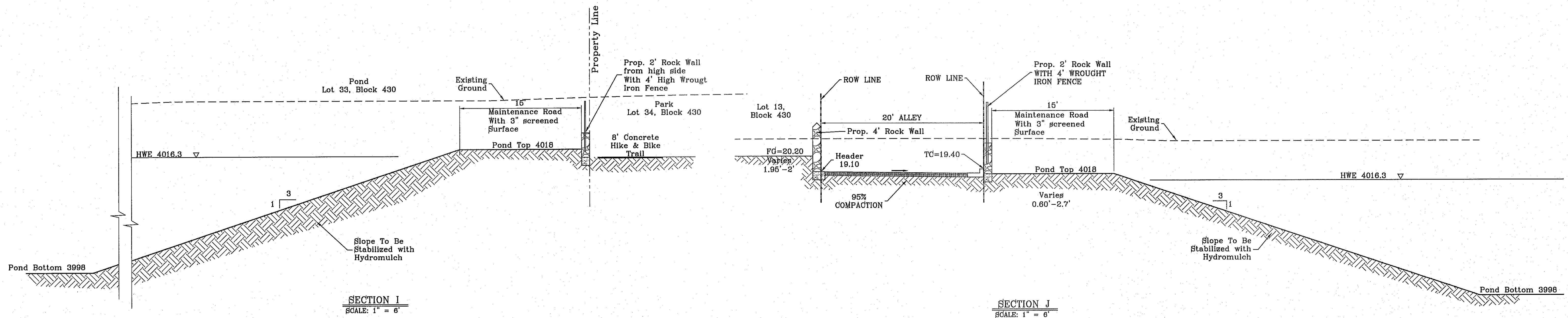
REVISIONS	
DATE	BY
10-29-2013	R.O.
1-13-2014	R.O.

PROJECT NAME
TERRA DEL ESTE UNIT SEVENTY TWO
BEING PORTION OF SECTIONS 37 AND 48, BLOCK 79, TOWNSHIP 2, TEXAS AND PACIFIC RAILWAY CO. SURVEYS, CITY OF EL PASO, EL PASO COUNTY, TEXAS CONTAINING: 97.651 ± ACRES

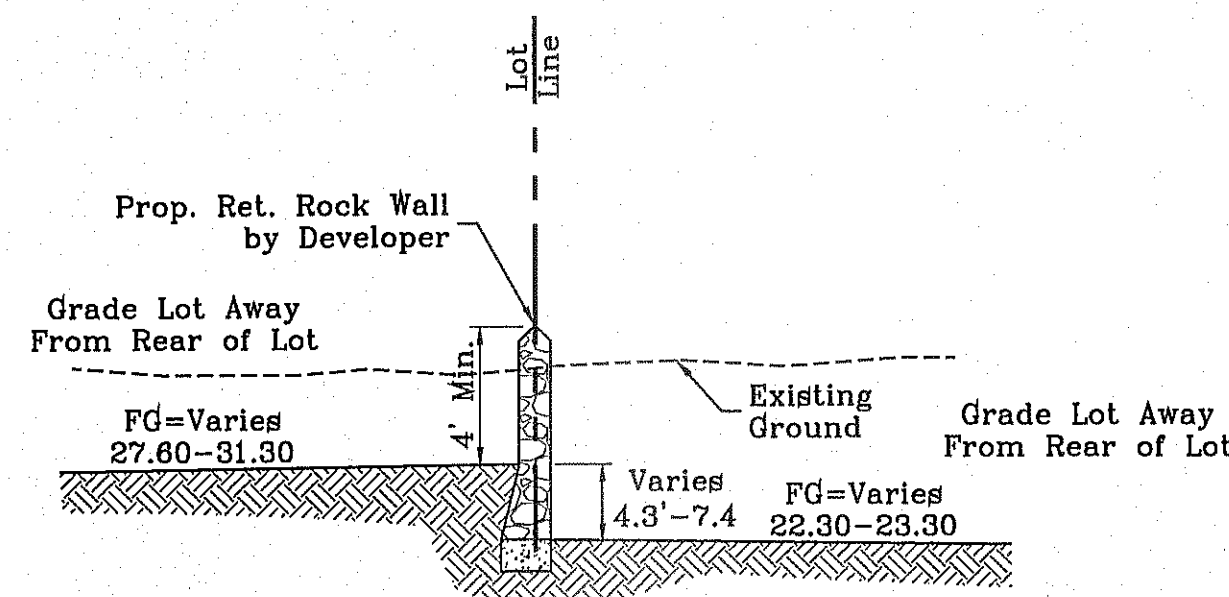
S.C.A.L.E.	HORIZ: 1" = 6'
DATE:	SEPT. 2013
DESIGN BY:	Y.C.
INITIATED BY:	R.O.
CHECKED BY:	Y.C.
JOB NO.:	112-08

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

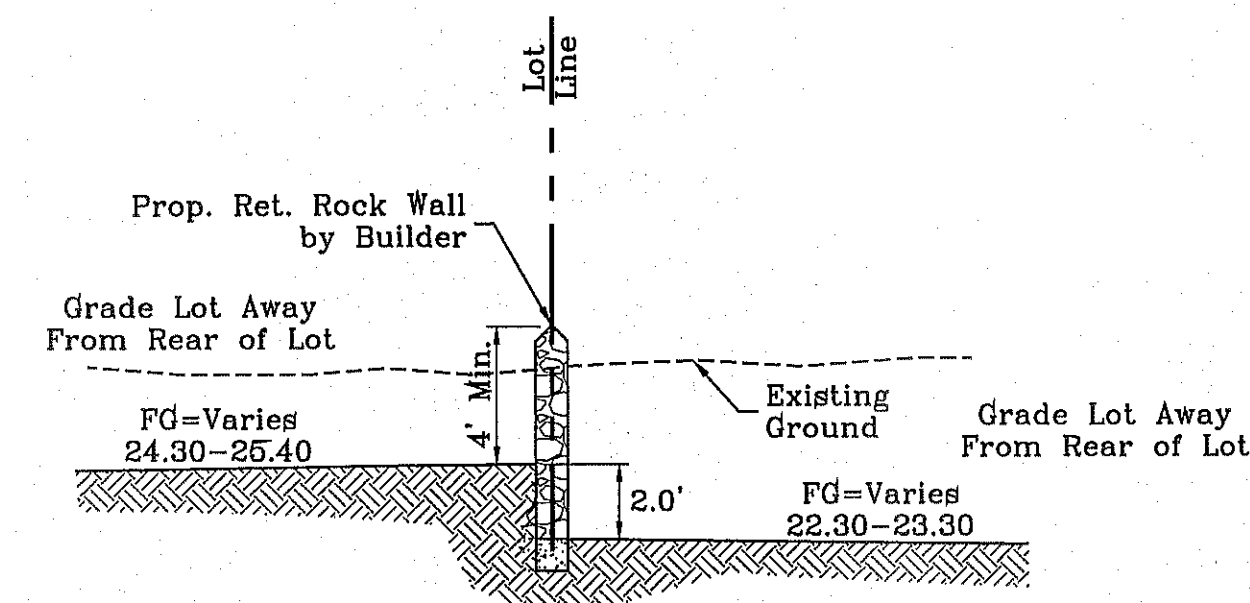




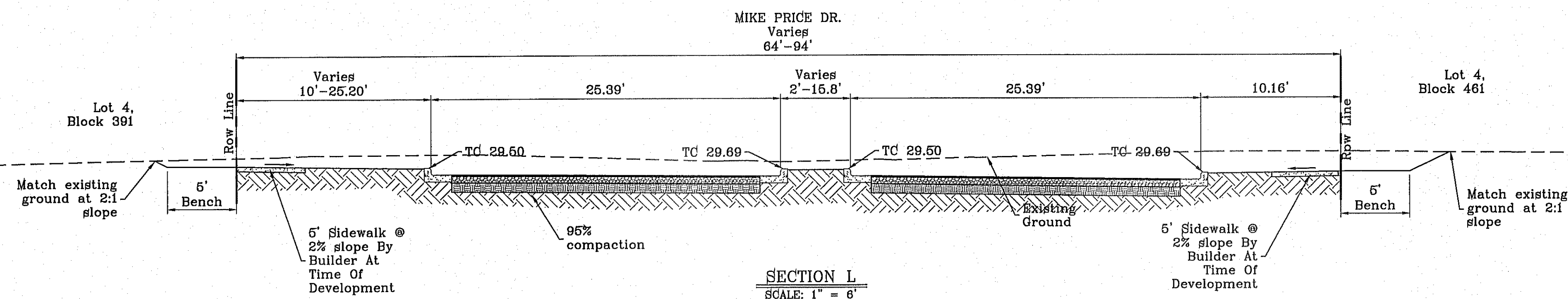
SECTION K
SCALE: 1" = 6'



SECTION K1
LOTS 5-7, &
14-16, BLOCK 77
SCALE: 1" = 6'



SECTION K2
LOTS 4-7 &
17-20, BLOCK 377
SCALE: 1" = 6'



SECTION L
SCALE: 1" = 6'

BENCHMARK
CITY MONUMENT AT THE CENTERLINE INTERSECTION OF RALPH BEITSINGER DR. AND GALICENO PL. ELEVATION 4025.93 CITY DATUM

DATE	REVISIONS	BY
10-29-2013	CITY REDLINE - MISS SECTION REVISION	R.O.
1-15-2014	3rd CITY REDLINES	mae

PROJECT NAME
**TERRA DEL ESTE
UNIT SEVENTY TWO**
BEING PORTION OF SECTIONS 37 AND 48, BLOCK 79,
TOWNSHIP 2, TEXAS AND PACIFIC RAILWAY CO. SURVEYS,
CITY OF EL PASO, EL PASO COUNTY, TEXAS
CONTAINING: 97.651 ± ACRES

S C A L E
HORIZ: 1" = 6'
VERT: ---
DATE: SEPT. 2013
DESIGN BY: Y.C.
INITIATED BY: R.O.
CHECKED BY: Y.C.
JOB NO.: 112-08

ENGINEER'S SEAL
CONDE INC.
ENGINEERING / PLANNING
SURVEYING / GPS
6090 SUBVITY DR. SITE 100
EL PASO, TEXAS 79905
PHONE: (915) 692-0283
FAX: (915) 692-0286

CONDE INC.
REGISTRATION NO. F-2321

SHEET TITLE
**GRADING
SECTIONS**

FILE LOCATION: S:\Subdivisions\IDE 72 TDE 72-GDPL PLOTTED ON Monday, May 12, 2014 11:11:33 AM BY ROGER ORTEGA

SCALE: 1"=100'

WATERSHED-POND 2:1 SLOPE
 $Q = \frac{A \cdot R \cdot C}{12} = AC-FT$

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

TDE 72 RESIDENTIAL	85.23 AC.
OFFSITE RESIDENTIAL	43.07 AC.
SCHOOL	17.0 AC.
PARK	4.08 AC.
OFFSITE TOWNHOMES	7.04 AC.
TOTAL AREA	166.42 AC.

100 YR. CALCULATION

RESIDENTIAL	$\frac{128.30(4)0.60}{12} = 25.66$ ac-ft
SCHOOL & TOWNHOMES	$\frac{24.04(4)0.94}{12} = 7.53$ ac-ft
PARK	$\frac{4.08(4)0.39}{12} = 0.53$ ac-ft
TOTAL REQ'D	33.72 ac-ft
TOTAL AVAILABLE	37.56 ac-ft

100 YEAR HW ELEVATION = 4016.30
POND AND PARK

50 YR. CALCULATION

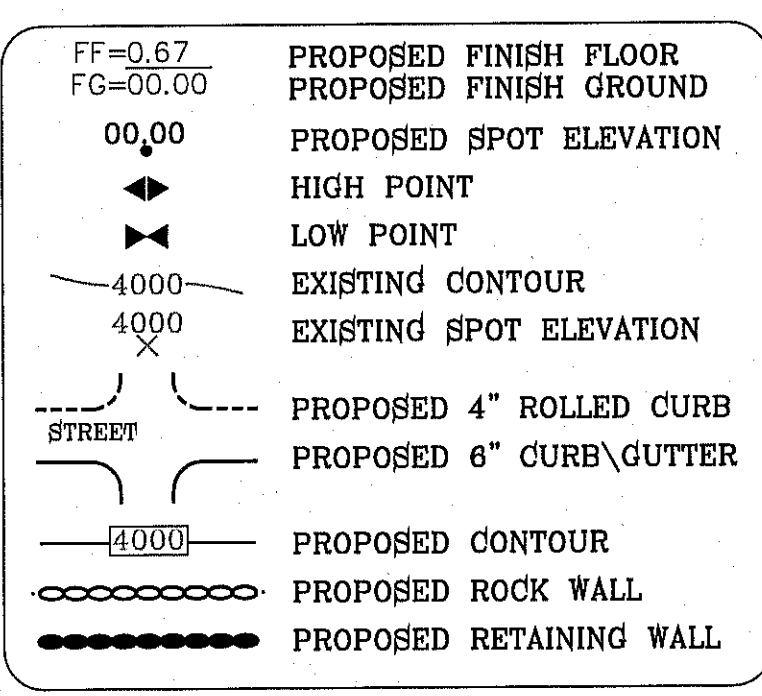
RESIDENTIAL	$\frac{128.30(3.5)0.60}{12} = 22.45$ ac-ft
SCHOOL & TOWNHOMES	$\frac{24.04(3.5)0.90}{12} = 6.31$ ac-ft
PARK	$\frac{4.08(3.5)0.39}{12} = 0.46$ ac-ft
TOTAL REQ'D	29.22 ac-ft
TOTAL AVAILABLE	37.56 ac-ft

MATCH LINE SEE SHEET 9

NOTE:
 HEREON DESCRIBED TRACT LIES IN ZONE X, COMMUNITY PANEL NO. 480212 0175B. DATED SEPTEMBER 4, 1991.

SEE SHEET 47-54 FOR STRUCTURES & POND

LEGEND



PARK AREA
 $Q = \frac{A \cdot R \cdot C}{12} = \frac{4.08(4)(0.4)}{12} = 0.54$

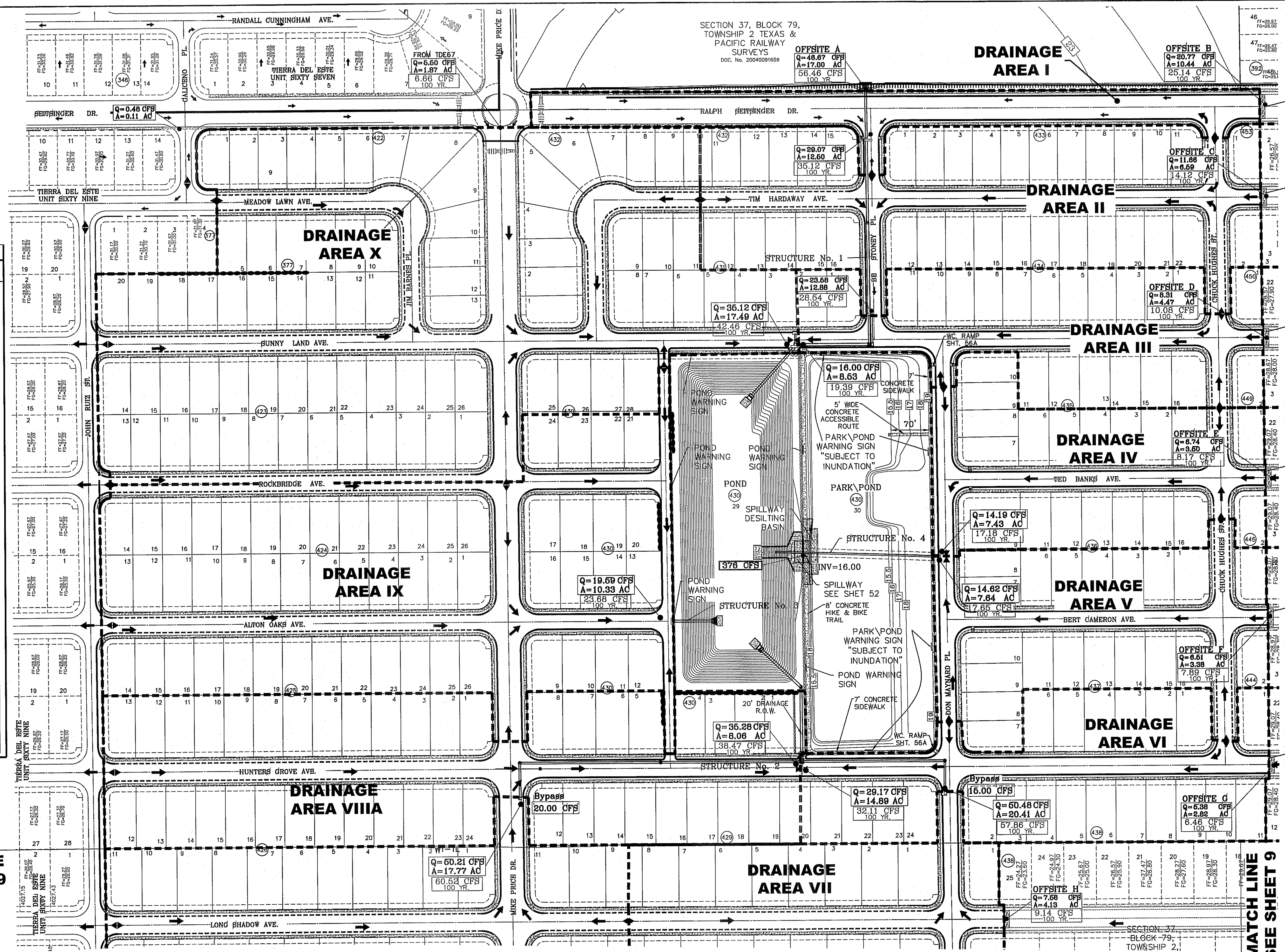
ELEVATION FT	AREA SQ-FT	VOLUME CAP AC-FT
4017.00	2.70	3.68
4016.50	2.48	2.36
4016.00	2.39	1.15
4015.50	2.20	0.00

Basin Calc's.

Basin No.	REQUIRED CAPACITY (ac. ft.)	AVAILABLE CAPACITY (ac. ft.)	PEAK INFLOW (cfs)	HIGH WATER SURFACE ELEV. (ft)	FREE BOARD (ft)
POND	33.72	37.56	159.80	4016.3	1.4'

DRAINAGE AREA	AREA (AC)	Td (min)	d	I ₅₀ (In/HR)	Q50 (CFS)	I100 (In/HR)	Q100 CFS
I	2.06	12	0.95	4.24	8.30	6.10	9.98
II	6.89	96	0.80	3.16	11.82	3.82	14.42
III	4.08	28	0.80	3.16	7.89	3.82	9.31
IV	3.93	28	0.80	3.16	7.45	3.82	9.01
V	4.28	28	0.80	3.16	8.11	3.82	9.76
VI	4.31	22	0.80	3.40	8.79	4.12	10.66
VII	7.37	28	0.80	3.16	13.07	3.82	16.89
VIII	10.05	28	0.80	3.16	19.05	3.82	23.03
VIIII	8.08	28	0.80	3.16	15.28	3.82	18.47
IX	10.33	28	0.80	3.16	19.69	3.82	23.68
X	16.02	28	0.80	3.16	29.83	3.82	35.80
XI	4.83	12	0.95	4.24	19.46	6.10	23.40
XII	2.91	20	0.95	3.54	9.79	4.28	11.83
XIII	0.66	10	0.95	4.46	2.37	6.38	2.85
XIV	3.50	20	0.85	3.54	11.77	4.28	14.23

DRAINAGE AREA	AREA (AC)	Td (min)	d	I ₅₀ (In/HR)	Q50 (CFS)	I100 (In/HR)	Q100 CFS	
PARK A	4.08	ONSITE PONDING	SEE POND SHEET FOR CALCULATIONS					
POND	2.85	ONSITE PONDING	SEE POND SHEET FOR CALCULATIONS					
OFFSITE A	17.00	28	0.80	3.05	46.87	3.89	56.48	
OFFSITE B	10.44	30	0.80/0.95	---	20.77	---	25.14	
OFFSITE C	6.59	30	0.80	2.95	11.88	3.67	14.12	
OFFSITE D	4.47	27	0.80	3.10	8.31	3.78	10.08	
OFFSITE E	3.50	25	0.80	3.21	6.74	3.89	8.17	
OFFSITE F	3.38	25	0.80	3.21	6.51	3.89	7.99	
OFFSITE G	2.82	28	0.80	3.18	5.38	3.82	6.48	
OFFSITE H	4.13	28	0.80	3.05	7.68	3.89	9.14	
OFFSITE I	2.43	27	0.95	3.10	7.16	3.78	8.87	
OFFSITE J	1.69	11	0.95	4.35	6.67	6.23	7.80	
OFFSITE K	0.74	16	0.95	3.95	2.77	4.76	3.34	
OFFSITE L	2.98	20	0.95	3.54	10.02	4.28	12.12	



DESILTING BASIN WITH DEAD END SIGN. PAVEMENT TERMINUS. SHEET 66B

DESILTING BASIN WITH DEAD END SIGN. PAVEMENT TERMINUS. SHEET 66B

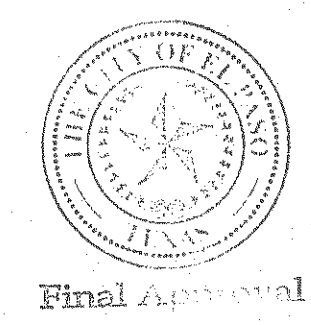
DESILTING BASIN WITH DEAD END SIGN. PAVEMENT TERMINUS. SHEET 66B

DESILTING BASIN WITH DEAD END SIGN. PAVEMENT TERMINUS. SHEET 66B

DESILTING BASIN WITH DEAD END SIGN. PAVEMENT TERMINUS. SHEET 66B

DESILTING BASIN WITH DEAD END SIGN. PAVEMENT TERMINUS. SHEET 66B

DESILTING BASIN WITH DEAD END SIGN. PAVEMENT TERMINUS. SHEET 66B



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

PROJECT NAME
 TIERRA DEL ESTE UNIT SEVENTY TWO

BEING PORTION OF SECTIONS 37 AND 48, BLOCK 79, TOWNSHIP 2, TEXAS AND PACIFIC RAILWAY CO. SURVEYS, CITY OF EL PASO, EL PASO COUNTY, TEXAS CONTAINING: 97.561 ± ACRES

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

DATE: SHEET: 2013
 DESIGNED BY: Y.C.
 INITIATED BY: R.O.
 CHECKED BY: Y.C.
 JOB NO.: 112-08

BENCHMARK
 CITY MONUMENT AT THE CENTERLINE INTERSECTION OF RALPH SEINSINGER DR. AND CITY DATUM
 ELEVATION 4626.86 CITY DATUM

REVISIONS

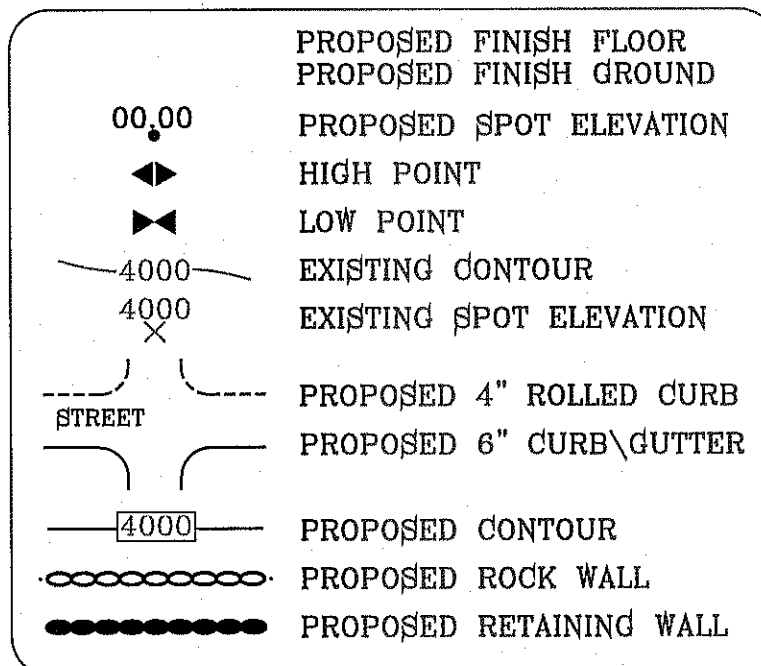
NO.	DATE	BY	REVISIONS
1	10-29-2013	R.O.	CITY REDLINES-PARK GRADERS
2	1-13-2014	R.O.	3rd CITY REDLINES misc

SHEET TITLE
DRAINAGE PLAN

SHT 8 OF 70

FILE LOCATION: S:\Subdivisions\TDE 72\TDE 72-GDPL PLOTTED ON Monday, May 12, 2014 11:11:49 AM BY ROGER ORTEGA

LEGEND

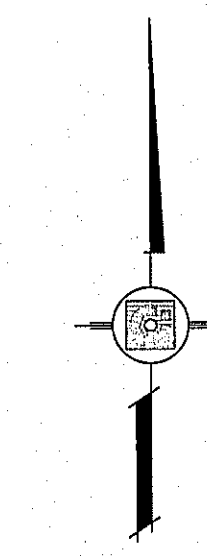


SEE SHEET 47-54 FOR STRUCTURES & POND

NOTE:

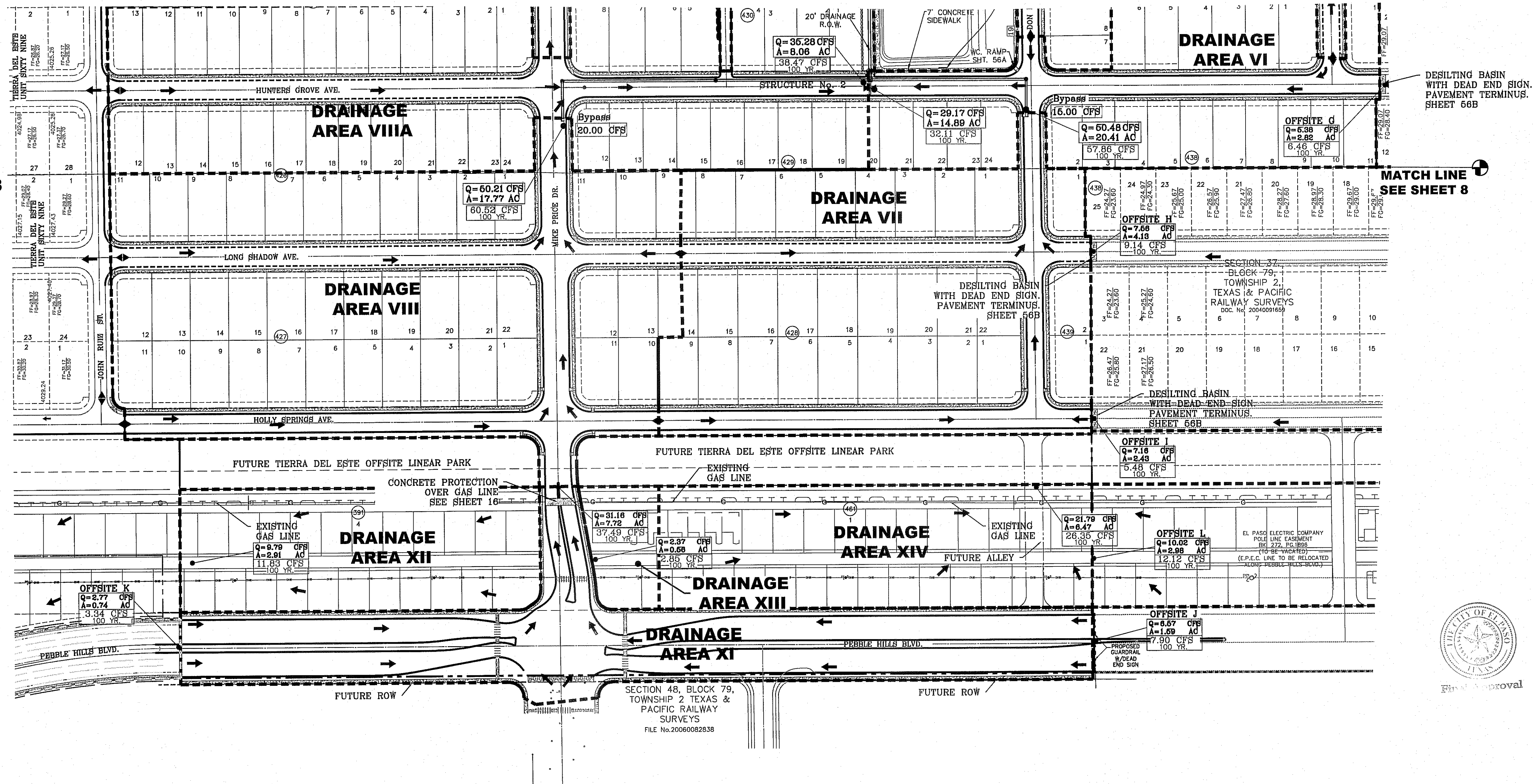
HERRON DESCRIBED TRACT LIES IN ZONE X, COMMUNITY PANEL NO. 480212 0176B, DATED SEPTEMBER 4, 1991.

SCALE: 1"=100'



MATCH LINE SEE SHEET 8

MATCH LINE SEE SHEET 8



PARK AREA

$$Q = \frac{ARC}{12} = \frac{4.08(4)(0.4)}{12} = 0.54$$

ELEVATION FT	AREA SQ-FT	VOLUME CAP AC-FT
4017.00	2.70	3.68
4016.50	2.48	2.36
4016.00	2.39	1.15
4015.50	2.20	0.00

Basin Calcs.

Basin No.	REQUIRED CAPACITY (ac. ft.)	AVAILABLE CAPACITY (ac. ft.)	PEAK INFLOW (cfs)	HIGH WATER SURFACE ELEV. (ft)	FREE BOARD (ft)
POND	33.72	37.56	159.80	4016.3	1.4'

DRAINAGE AREA	AREA (AC)	Td (min)	d	I ₁₀₀ (in/HR)	Q ₆₀ (CFS)	I ₁₀₀ (IN/HR)	Q ₁₀₀ CFS
I	2.08	12	0.85	4.24	8.30	6.10	9.88
II	6.29	28	0.80	3.18	11.82	3.82	14.42
III	4.06	28	0.80	3.18	7.89	3.82	9.31
IV	3.93	28	0.80	3.18	7.45	3.82	9.01
V	4.26	28	0.80	3.18	8.11	3.82	9.76
VI	4.31	22	0.80	3.40	8.79	4.12	10.65
VII	7.37	28	0.80	3.18	13.97	3.82	16.89
VIII	10.05	28	0.80	3.18	19.05	3.82	23.03
VIIIA	8.06	28	0.80	3.18	16.28	3.82	18.47
IX	10.33	28	0.80	3.18	19.59	3.82	23.68
X	16.82	28	0.80	3.18	29.82	3.82	36.80
XI	4.83	12	0.85	4.24	19.46	6.10	23.40
XII	2.81	20	0.85	3.64	9.79	4.28	11.83
XIII	0.66	10	0.85	4.46	2.37	6.38	2.86
XIV	3.60	20	0.85	3.64	11.77	4.28	14.23

DRAINAGE AREA	AREA (AC)	Td (min)	d	I ₁₀₀ (in/HR)	Q ₆₀ (CFS)	I ₁₀₀ (IN/HR)	Q ₁₀₀ CFS
I	2.08	12	0.85	4.24	8.30	6.10	9.88
II	6.29	28	0.80	3.18	11.82	3.82	14.42
III	4.06	28	0.80	3.18	7.89	3.82	9.31
IV	3.93	28	0.80	3.18	7.45	3.82	9.01
V	4.26	28	0.80	3.18	8.11	3.82	9.76
VI	4.31	22	0.80	3.40	8.79	4.12	10.65
VII	7.37	28	0.80	3.18	13.97	3.82	16.89
VIII	10.05	28	0.80	3.18	19.05	3.82	23.03
VIIIA	8.06	28	0.80	3.18	16.28	3.82	18.47
IX	10.33	28	0.80	3.18	19.59	3.82	23.68
X	16.82	28	0.80	3.18	29.82	3.82	36.80
XI	4.83	12	0.85	4.24	19.46	6.10	23.40
XII	2.81	20	0.85	3.64	9.79	4.28	11.83
XIII	0.66	10	0.85	4.46	2.37	6.38	2.86
XIV	3.60	20	0.85	3.64	11.77	4.28	14.23

BENCHMARK

CITY MONUMENT AT THE CENTERLINE INTERSECTION OF RALPH SAUTSINGER DR. AND CALICENO PL. ELEVATION 4025.88 CITY DATUM

DATE	BY	REVISIONS
10-29-2013	R.O.	CITY REDLINES-PARK GRADES
1-13-2014	R.O.	3rd CITY REDLINES misc

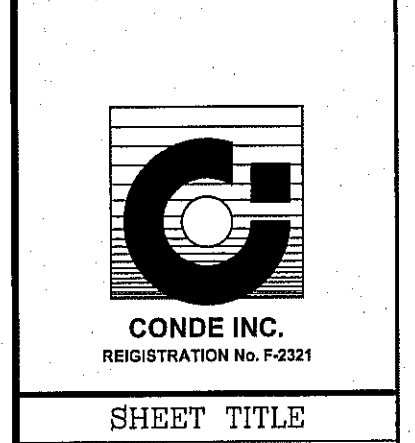
PROJECT NAME
TERRA DEL ESTE UNIT SEVENTY TWO

BEING PORTION OF SECTIONS 37 AND 48, BLOCK 79, TOWNSHIP 2, TEXAS AND PACIFIC RAILWAY CO. SURVEYS, CITY OF EL PASO, EL PASO COUNTY, TEXAS CONTAINING: 97.561± ACRES

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

DATE: SEPT. 2013
DESIGN BY: Y.C.
INITIATED BY: R.O.
CHECKED BY: Y.C.
JOB NO.: 112-08

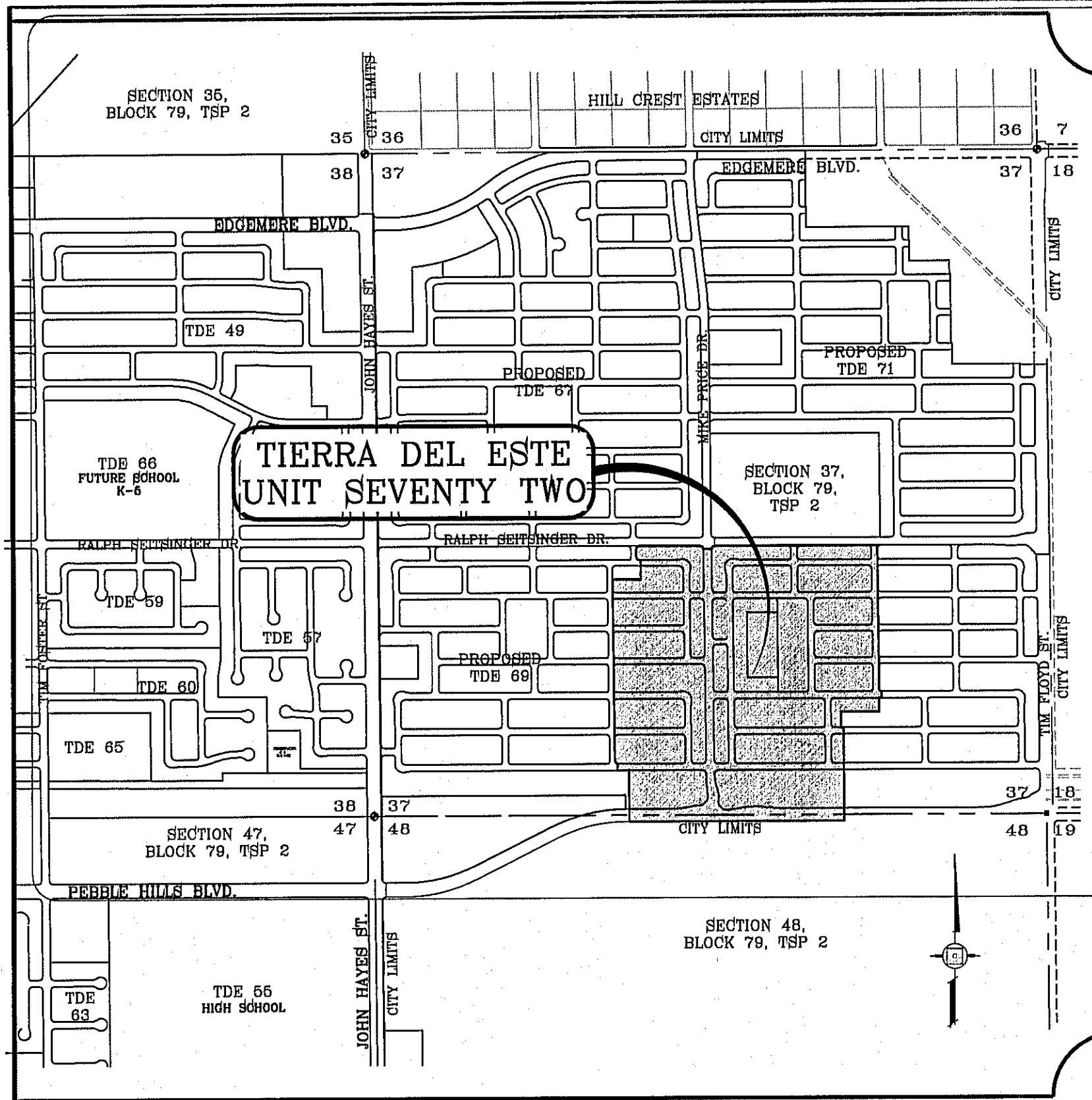
CONDE INC.
ENGINEERING / PLANNING / SURVEYING / GFS
6080 SURVEY DR. STE 100
EL PASO, TEXAS 79905
PHONE: (915) 592-0283
FAX: (915) 592-0286



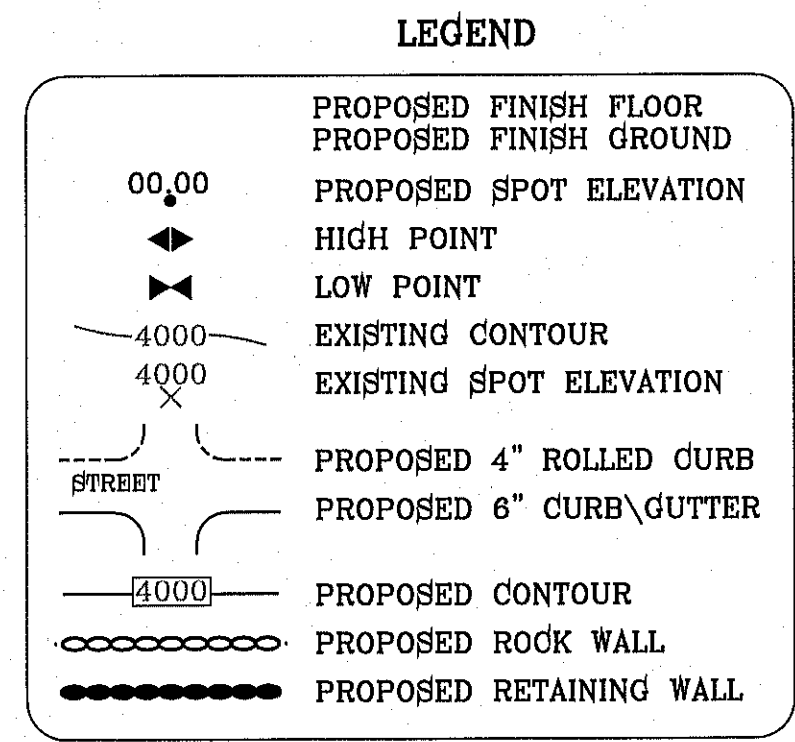
SHEET TITLE
DRAINAGE PLAN

SHT 9 OF 70

FILE LOCATION: S:\Projects\2014\72-GDPL\72-GDPL_PLOTTED ON Monday, May 12, 2014 11:11:55 AM BY RODER ORTEGA

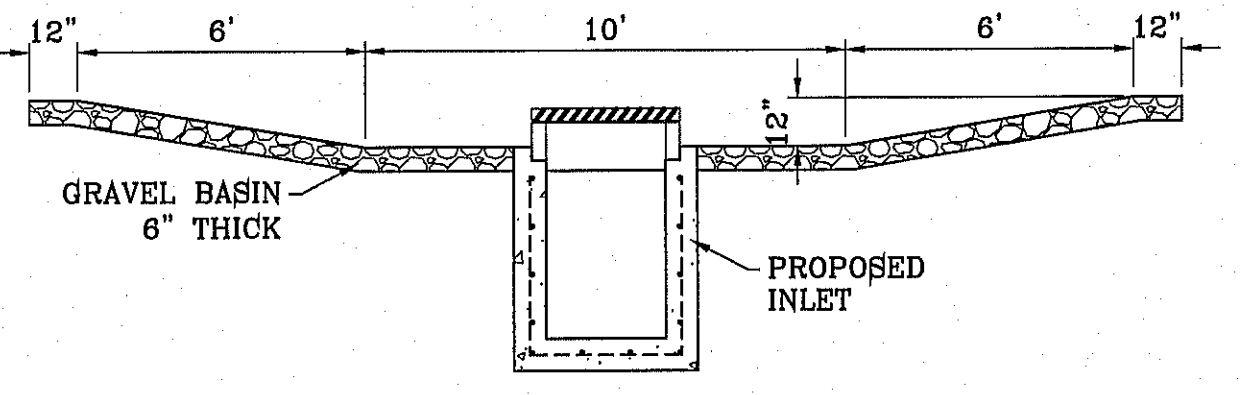


LOCATION MAP SCALE: 1"=100'

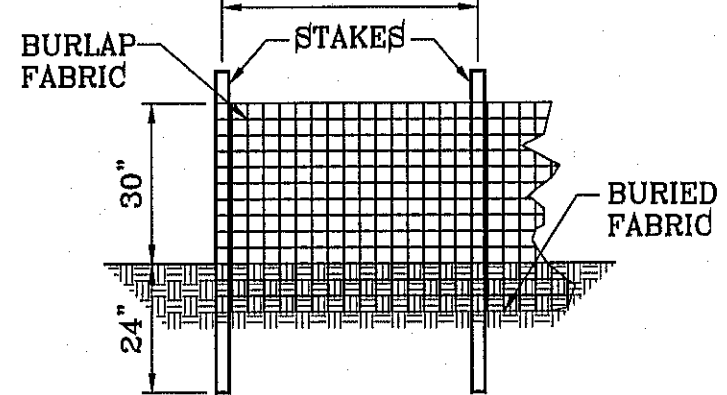


NOTE:
HERON DESCRIBED TRACT LIES IN ZONE X, COMMUNITY PANEL NO. 480212 0176B, DATED SEPTEMBER 4, 1991.

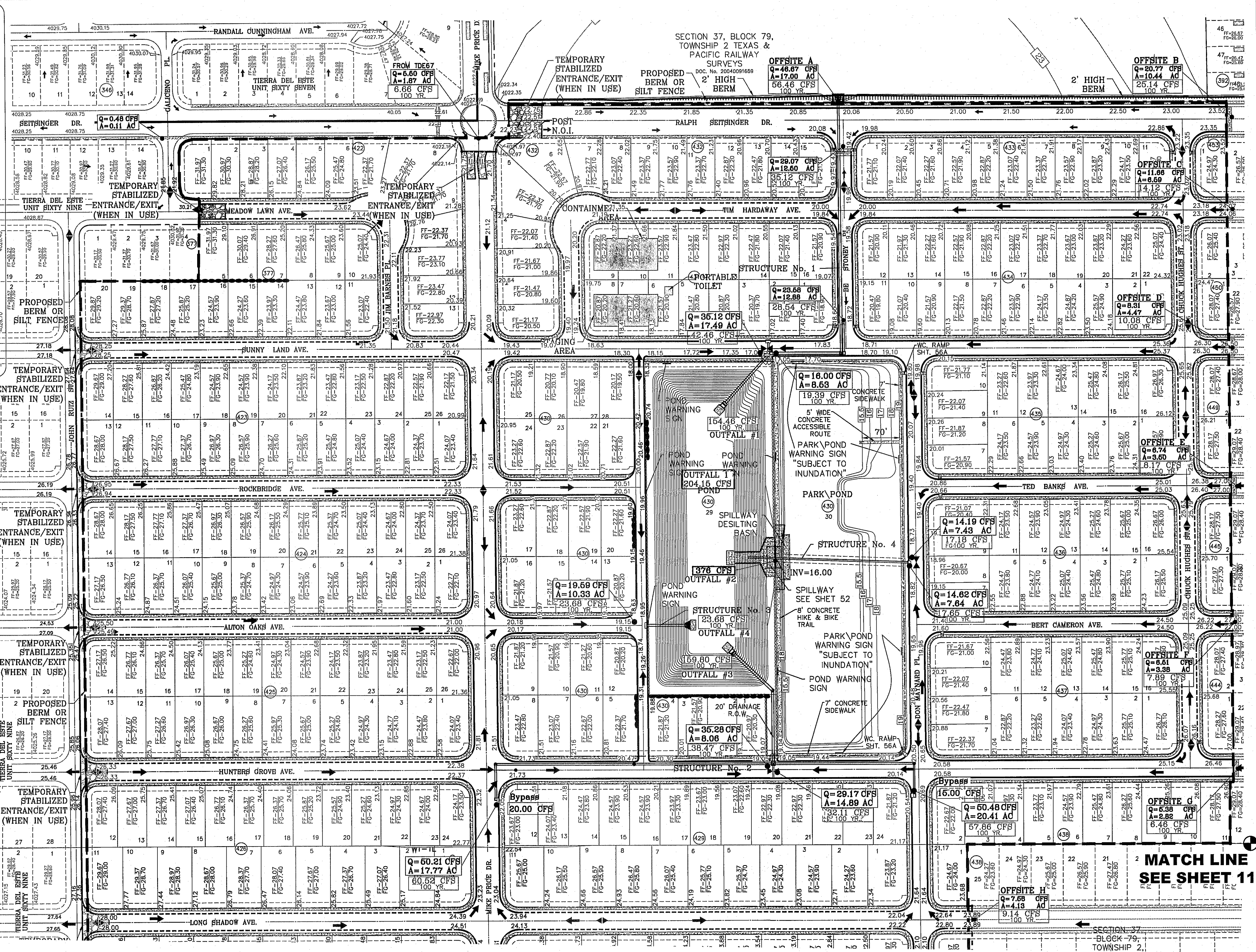
MATCH LINE
SEE SHEET 11



TEMPORARY STRUCTURE DESILTING BASIN
SCALE: 1"=4'



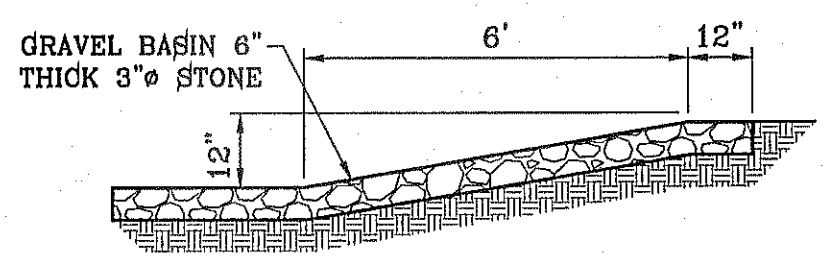
TYPICAL SILT FENCE
SCALE: 1"=3'



- NOTES:**
1. T.P.D.E.S. PERMIT- AS REQUIRED BY CONTRACTOR
 2. STORM WATER AS PER N.P.D.E.S. PERMIT

STABILIZED ENTRANCE EROSION CONTROL NOTES

1. SILT FENCING OR TEMPORARY BERMS SHALL BE INSTALLED AT TIME OF CONSTRUCTION.
2. TEMPORARY SWALES AND DESILTING BASINS WILL BE PLACED WHERE NECESSARY IN ORDER TO CONVEY STORM WATER RUN-OFF.
3. A STABILIZED CONSTRUCTION ENTRANCE WILL BE PROVIDED TO HELP REDUCE VEHICLE TRACKING OF SEDIMENTS. THE PAVED STREET ADJACENT TO THE SITE ENTRANCE WILL BE SWEEP WEEKLY TO REMOVE ANY EXCESS MUD, DIRT OR ROCK TRACKED FROM THE SITE.
4. 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.
5. A TEMPORARY BERM SHALL BE PROVIDED AT THE TOE OF SLOPE AND LOT LINE AT TIME OF GRADING PRIOR TO ROCKWALL CONSTRUCTION.
6. SILT FENCE TO BE INSTALLED AND MAINTAINED ALONG THE PERIMETER OF THE PARK SITE UNTIL ALL ADJUTING RESIDENCES ARE DEVELOPED.



SECTION EROSION AND SEDIMENT CONTROLS TEMPORARY STABILIZATION
SCALE: 1"=3'

MATCH LINE
SEE SHEET 11

SCALE: 1"=100'

REVISIONS

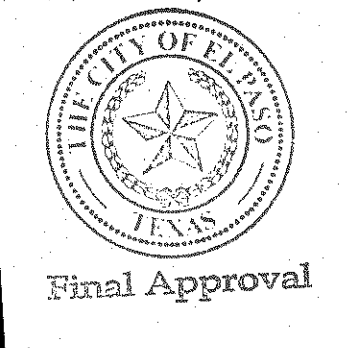
DATE	BY	REVISIONS
10-29-2013	R.O.	CITY REVISIONS-PARK GRADES
1-13-2014	R.O.	3RD CITY REVISIONS misc

TERRA DEL ESTE UNIT SEVENTY TWO
BEING PORTION OF SECTIONS 37 AND 48, BLOCK 79, TOWNSHIP 2, TEXAS AND PACIFIC RAILWAY CO. SURVEYS, CITY OF EL PASO, EL PASO COUNTY, TEXAS
CONTAINING: 97.551± ACRES

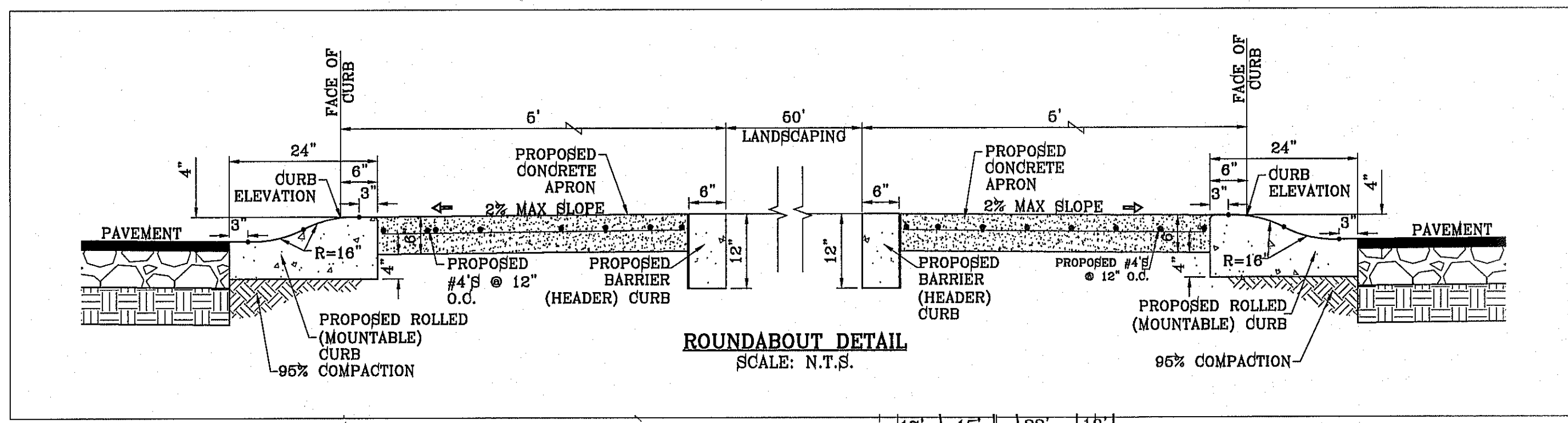
CONDE INC.
ENGINEERING / PLANNING SURVEYING / GPS
6000 SURETY DR. STE 100
EL PASO, TEXAS 79905
PHONE: (915) 592-0283
FAX: (915) 592-0286

CONDE INC.
REGISTRATION No. F-2321
SHEET TITLE
GRADING STABILIZATION AND STORMWATER POLLUTION PREVENTION PLAN

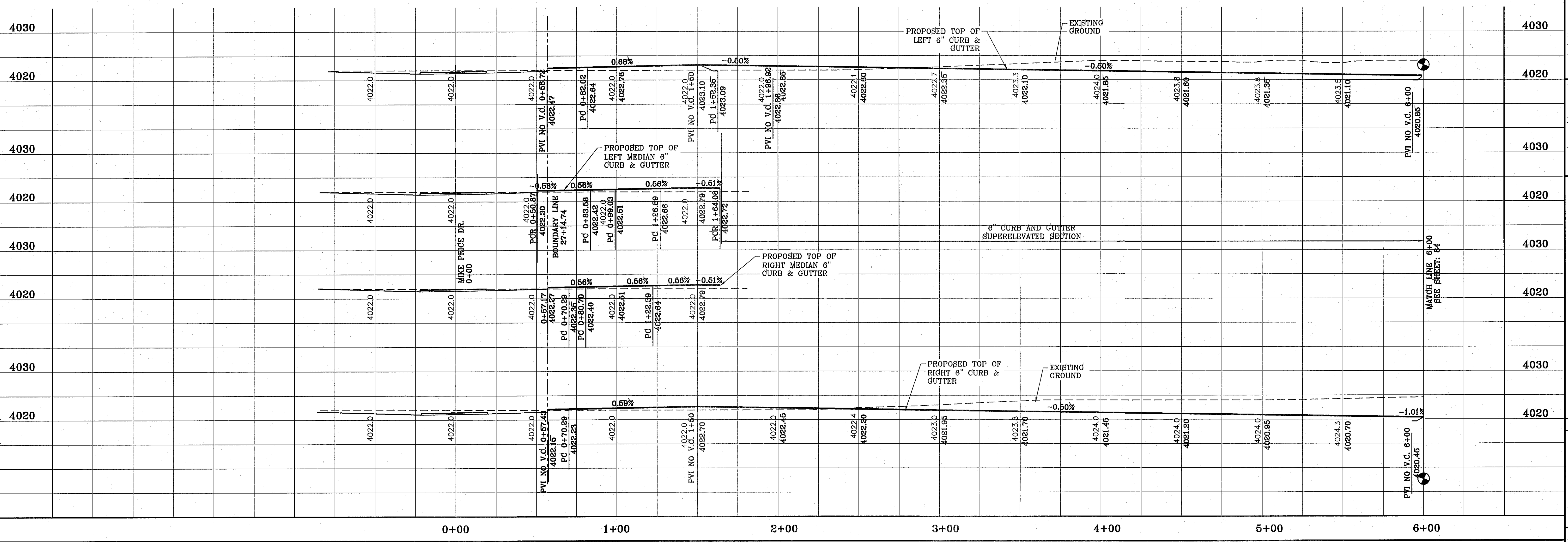
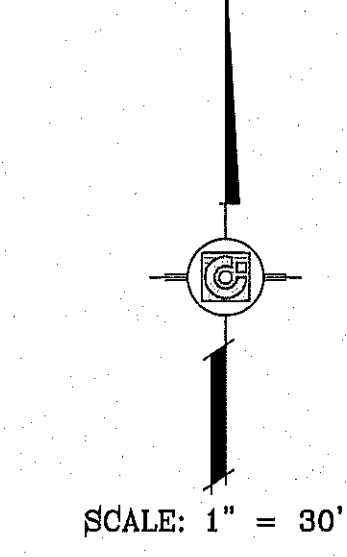
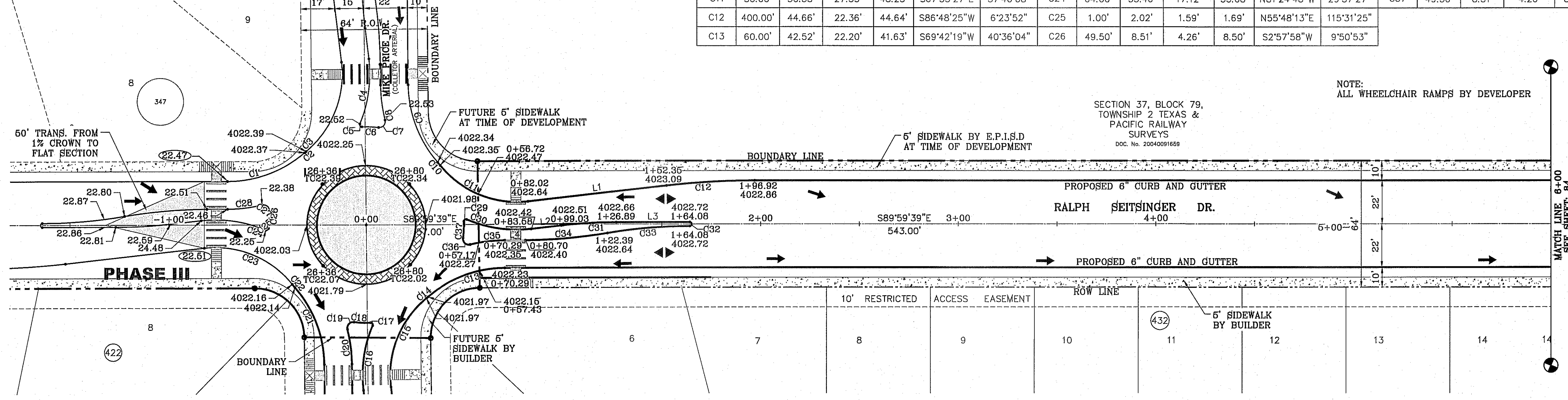
SHT 10 OF 70



Final Approval



CURVE TABLE						CURVE TABLE						CURVE TABLE								
CURVE	RADIUS	LENGTH	TANGENT	CHORD	BEARING	DELTA	CURVE	RADIUS	LENGTH	TANGENT	CHORD	BEARING	DELTA	CURVE	RADIUS	LENGTH	TANGENT	CHORD	BEARING	DELTA
C1	60.00'	42.52'	22.20'	41.63'	N69°42'19"E	40°36'04"	C14	48.00'	1.07'	0.54'	1.07'	N50°02'42"E	1°16'50"	C27	3.00'	5.84'	4.42'	4.96'	N47°55'09"W	111°37'08"
C2	48.00'	1.07'	0.54'	1.07'	S50°02'42"W	1°16'50"	C15	50.00'	50.33'	27.53'	48.23'	S21°51'03"W	57°40'08"	C28	74.00'	17.74'	8.91'	17.70'	N83°08'19"E	13°44'04"
C3	50.00'	50.33'	27.53'	48.23'	N21°51'03"E	57°40'08"	C16	64.00'	33.46'	17.12'	33.08'	S7°59'42"W	29°57'27"	C29	1.00'	2.02'	1.59'	1.69'	S55°48'13"W	115°31'25"
C4	64.00'	33.46'	17.12'	33.08'	N7°59'42"E	29°57'27"	C17	1.00'	2.02'	1.59'	1.69'	N34°47'17"W	115°31'25"	C30	64.00'	33.46'	17.12'	33.08'	S81°24'48"E	29°57'27"
C5	1.00'	2.02'	1.59'	1.69'	S34°47'17"E	115°31'25"	C18	49.50'	8.51'	4.26'	8.50'	S87°37'32"E	9°50'53"	C31	250.00'	27.92'	13.97'	27.90'	S86°48'25"W	6°23'52"
C6	49.50'	8.51'	4.26'	8.50'	N87°37'32"W	9°50'53"	C19	3.00'	5.84'	4.42'	4.96'	S41°29'21"W	111°37'08"	C32	1.00'	3.14'	INFINITY	2.00'	N0°00'21"E	180°00'00"
C7	3.00'	5.84'	4.42'	4.96'	N41°29'21"E	111°37'08"	C20	74.00'	17.74'	8.91'	17.70'	N7°27'11"W	13°44'04"	C33	250.00'	41.88'	20.99'	41.83'	S85°12'23"W	9°35'55"
C8	74.00'	17.74'	8.91'	17.70'	S7°27'11"E	13°44'04"	C21	60.00'	42.52'	22.20'	41.63'	N20°53'11"W	40°36'04"	C34	250.00'	41.88'	20.99'	41.83'	N85°12'23"E	9°35'55"
C9	60.00'	42.52'	22.20'	41.63'	S20°53'11"E	40°36'04"	C22	48.00'	2.06'	1.03'	2.06'	S39°57'18"E	2°27'50"	C35	74.00'	17.74'	8.91'	17.70'	S83°08'19"W	13°44'04"
C10	48.00'	2.06'	1.03'	2.06'	N39°57'18"W	2°27'50"	C23	50.00'	50.33'	27.53'	48.23'	N67°33'27"W	57°40'08"	C36	3.00'	5.84'	4.42'	4.96'	S47°55'09"E	111°37'08"
C11	50.00'	50.33'	27.53'	48.23'	S67°33'27"E	57°40'08"	C24	64.00'	33.46'	17.12'	33.08'	N81°24'48"W	29°57'27"	C37	49.50'	8.51'	4.26'	8.50'	N2°57'58"E	9°50'53"
C12	400.00'	44.66'	22.36'	44.64'	S86°48'25"W	6°23'52"	C25	1.00'	2.02'	1.59'	1.69'	N55°48'13"E	115°31'25"							
C13	60.00'	42.52'	22.20'	41.63'	S69°42'19"W	40°36'04"	C26	49.50'	8.51'	4.26'	8.50'	S2°57'58"W	9°50'53"							



PROJECT NAME
TIERRA DELESTE
UNIT SEVENTY TWO

SECTION
SECTION 37, BLOCK 79,
TOWNSHIP 2 TEXAS &
PACIFIC RAILWAY
SURVEYS
DOC. NO. 20040091659

DATE
10-29-2013

REVISIONS
CITY REDLINES - TURNABOUT SECTION

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

DESIGN BY
Y.C.

INITIATED BY
R.O.

CHECKED BY
Y.C.

JOB NO.
112-08

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

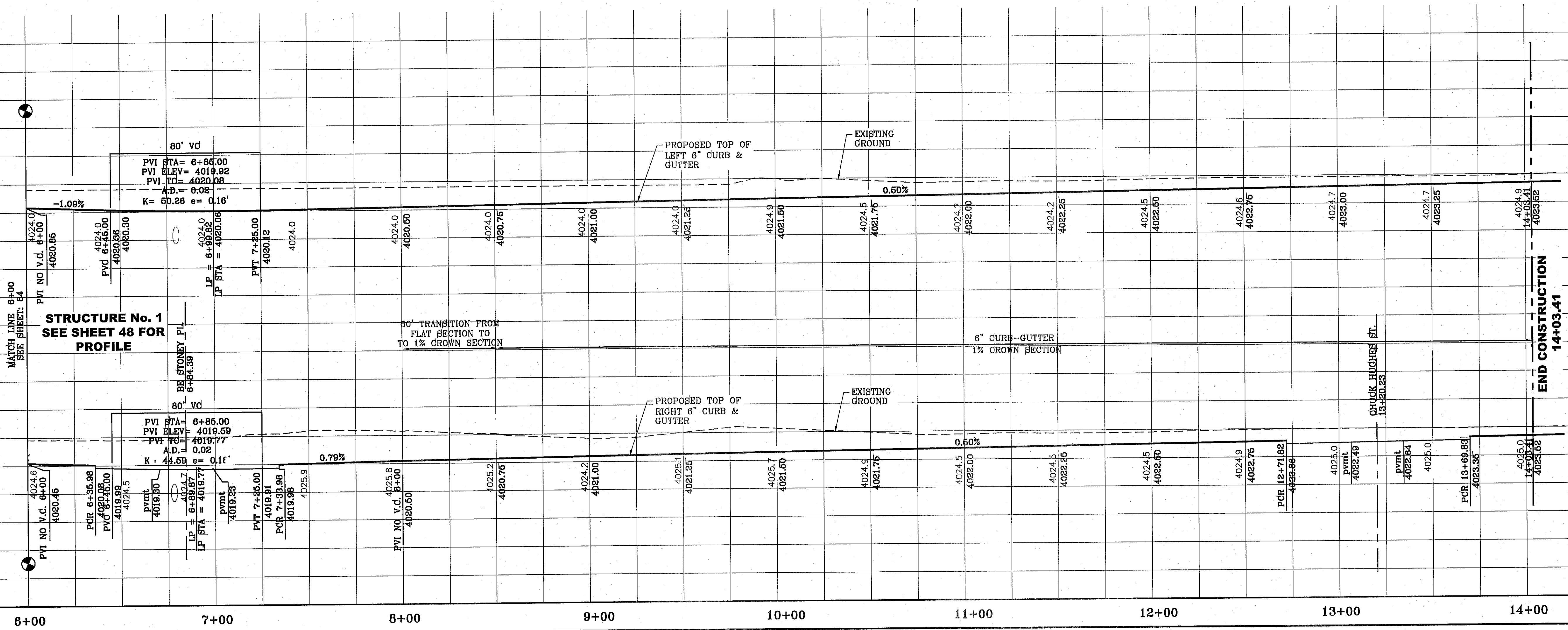
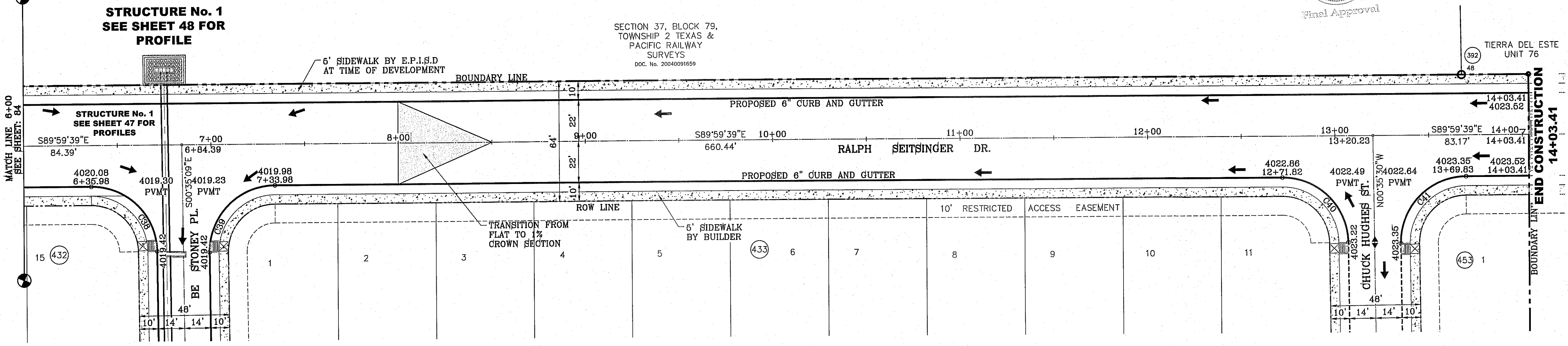
RALPH SEITSINGER DR.

SHT 12 OF 70

CURVE TABLE						
CURVE	RADIUS	LENGTH	TANGENT	CHORD	BEARING	DELTA
C38	35.00'	54.62'	34.64'	49.24'	N45°17'24"W	89°24'30"
C39	35.00'	55.34'	35.36'	49.75'	S44°42'36"W	90°35'30"
C40	35.00'	54.61'	34.64'	49.24'	N45°17'35"W	89°24'10"
C41	35.00'	55.34'	35.37'	49.75'	S44°42'25"W	90°35'50"

NOTE:
ALL WHEELCHAIR RAMPS BY DEVELOPER

SCALE: 1" = 30'



BENCHMARK	CITY MONUMENT AT THE CENTERLINE INTERSECTION OF RALPH SEITSINGER DR. AND GALICENO PL. ELEVATION 4025.93
BY	REVISIONS
R.O.	CITY REDLINES - MISC REVISION
DATE	10-29-2013

PROJECT NAME
TIERRA DEL ESTE UNIT SEVENTY TWO

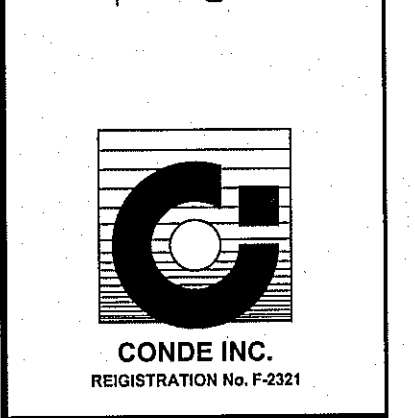
BEING PORTION OF SECTIONS 37 AND 48, BLOCK 79, TOWNSHIP 2 TEXAS AND PACIFIC RAILWAY CO. SURVEYS, CITY OF EL PASO, EL PASO COUNTY, TEXAS CONTAINING: 97.651± ACRES

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

DATE: SEPT. 2013
DESIGN BY: Y.C.
INITIATED BY: R.O.
CHECKED BY: Y.C.
JOB NO.: 112-08

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

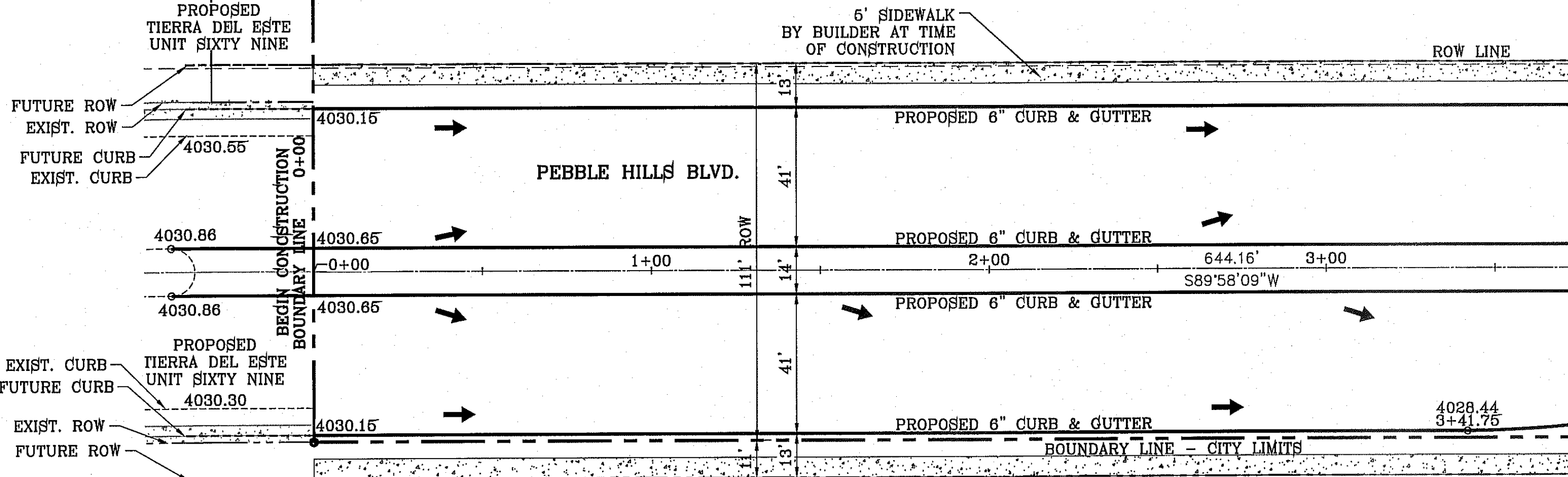
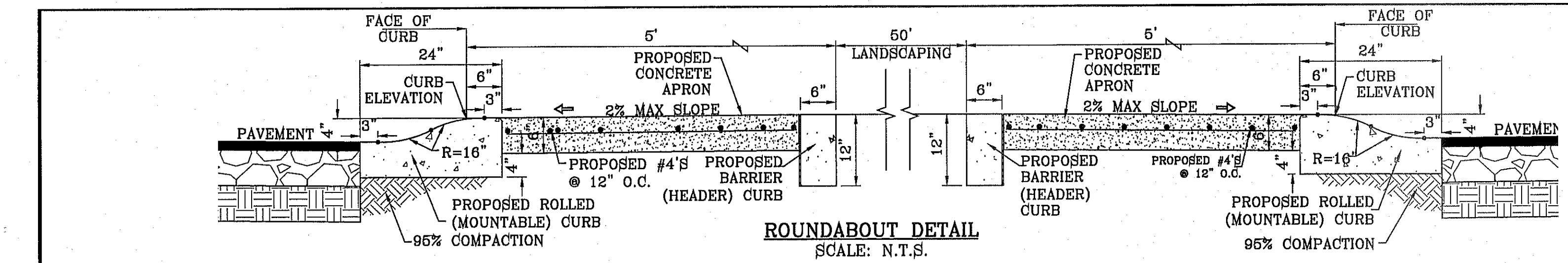


SHEET TITLE
STREET PLAN-PROFILE

RALPH SEITSINGER DR.

SHT 13 OF 70

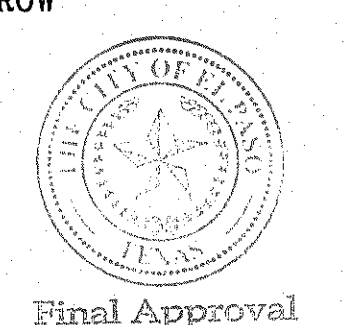
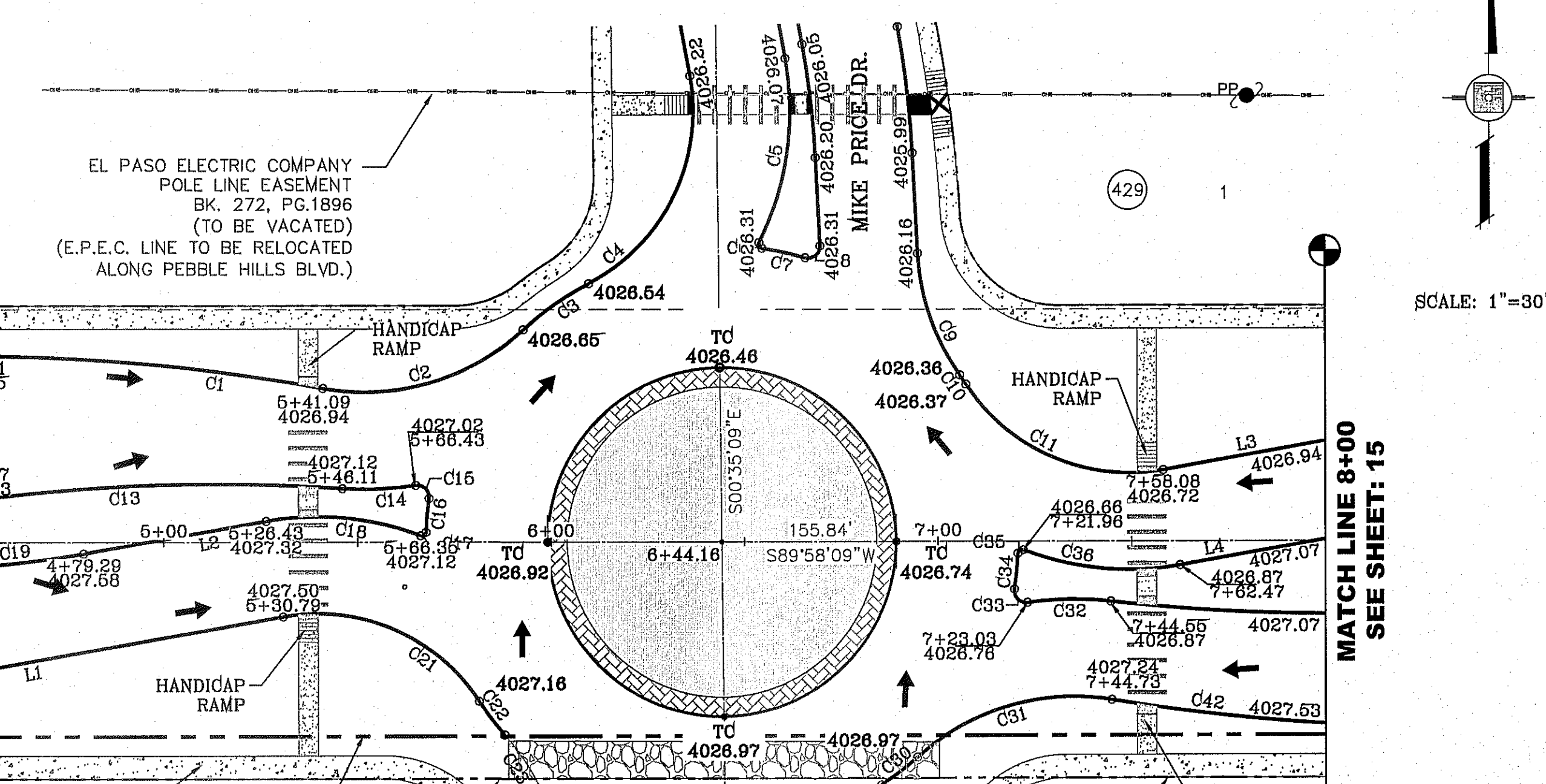
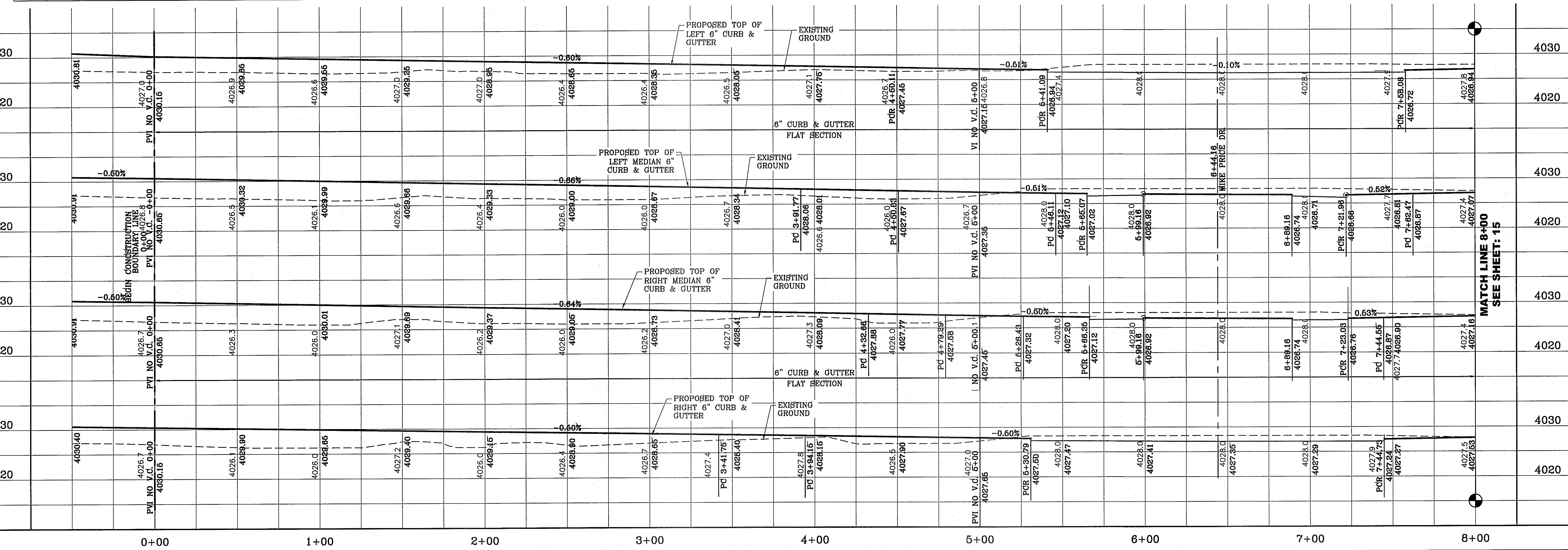
S:\BROWDER\7710272.PC_RALPH-SEITSINGER.dwg, 13 RALPH-SEITSINGER, 2, 8/20/14 11:07:43 AM



CURVE TABLE					CURVE TABLE					CURVE TABLE				
CURVE	RADIUS	LENGTH	TANGENT	CHORD	CURVE	RADIUS	LENGTH	TANGENT	CHORD	CURVE	RADIUS	LENGTH	TANGENT	CHORD
C1	500.00'	91.49'	45.87'	91.36'	C11	50.00'	58.79'	33.33'	55.46'	C21	50.00'	58.37'	33.03'	55.12'
C2	60.00'	56.06'	30.27'	54.04'	C12	450.00'	59.23'	29.66'	59.18'	C22	75.00'	10.88'	5.45'	10.88'
C3	75.00'	20.73'	10.43'	20.67'	C13	475.00'	95.49'	47.91'	95.33'	C23	60.00'	53.01'	28.38'	51.30'
C4	50.00'	63.79'	37.07'	59.55'	C14	85.00'	19.01'	9.55'	18.97'	C24	85.00'	9.96'	4.99'	9.96'
C5	75.00'	48.72'	25.26'	47.87'	C15	3.00'	5.62'	4.08'	4.83'	C25	3.00'	5.62'	4.08'	4.83'
C6	1.00'	1.90'	1.40'	1.63'	C16	76.50'	8.74'	4.37'	8.73'	C26	76.50'	10.88'	5.45'	10.87'
C7	76.50'	11.49'	5.75'	11.47'	C17	1.00'	1.90'	1.40'	1.63'	C27	1.00'	1.90'	1.40'	1.63'
C8	3.00'	5.72'	4.23'	4.89'	C18	75.00'	40.60'	20.81'	40.10'	C28	75.00'	54.25'	28.38'	53.08'
C9	60.00'	33.67'	17.29'	33.23'	C19	267.00'	46.87'	23.50'	46.81'	C29	50.00'	67.48'	40.01'	62.47'
C10	75.00'	2.95'	1.48'	2.95'	C20	300.00'	52.66'	26.40'	52.60'	C30	75.00'	11.79'	5.90'	11.77'

CURVE	RADIUS	LENGTH	TANGENT	CHORD	BEARING	DELTA
C31	60.00'	54.11'	29.05'	52.30'	S73°36'05"W	51°40'52"
C32	85.00'	21.57'	10.84'	21.51'	S89°14'45"W	14°32'28"
C33	3.00'	5.62'	4.08'	4.83'	S44°22'30"E	107°17'58"
C34	76.50'	9.30'	4.66'	9.29'	N5°47'31"E	6°57'55"
C35	1.00'	1.90'	1.40'	1.63'	S56°49'44"W	109°02'20"
C36	75.00'	41.22'	21.15'	40.70'	S84°23'50"E	31°29'28"

LINE	LENGTH	BEARING
L1	138.781	S79°54'39.47"W
L2	47.872	S79°54'39.47"W
L3	142.151	N79°51'25.84"E
L4	51.374	N79°51'25.84"E



NOTE: ALL WHEELCHAIR RAMPS BY DEVELOPER

FILE LOCATION: S:\Subdivision\TDE 72\TDE 72-PP01_PEBBLE HILLS PLOTTED ON Friday, August 08, 2014 11:07:59 AM BY ROGER ORTEGA

PROJECT NAME: **TERRA DEL ESTE UNIT SEVENTY TWO**
 BEING PORTION OF SECTIONS 37 AND 48, BLOCK 79, TOWNSHIP 2, TEXAS AND PACIFIC RAILWAY CO. SURVEYS, CITY OF EL PASO, EL PASO COUNTY, TEXAS CONTAINING: 87,881± ACRES
 CITY ENGINEER: RALPH SEITZINGER, DR. AND GAILCENO PL. ELEVATION 4025.83
 DATE: 10-29-2013
 REVISIONS: CITY ENGINEER - MISC REVISION
 BY: [Signature]
 R.O.: [Signature]

PROJECT NAME: **TERRA DEL ESTE UNIT SEVENTY TWO**
 HORIZ: 1" = 30'
 VERT: 1" = 10'
 DATE: SEPT. 2013
 DESIGN BY: Y.C.
 INITIATED BY: R.O.
 CHECKED BY: Y.C.
 JOB NO.: 112-08

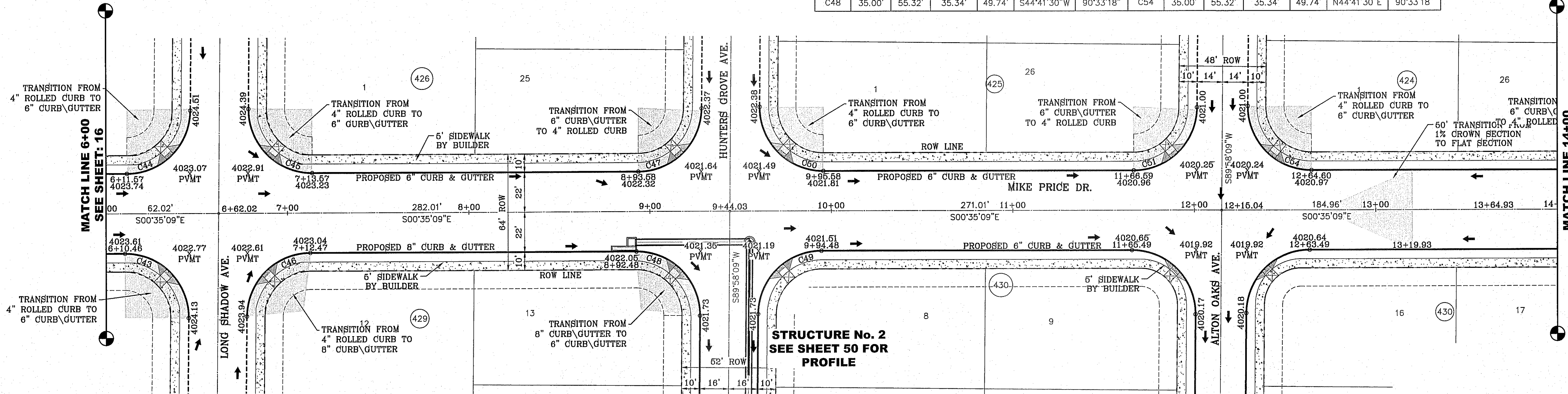
CONDE INC.
 ENGINEERING / PLANNING / SURVEYING / GPS
 6080 SURETY DR. STE 100
 EL PASO, TEXAS 79905
 PHONE: (915) 592-0283
 FAX: (915) 592-0286

SHEET TITLE: **PEBBLE HILLS BLVD.**
 STREET PLAN - PROFILE
 SHT 14 OF 70

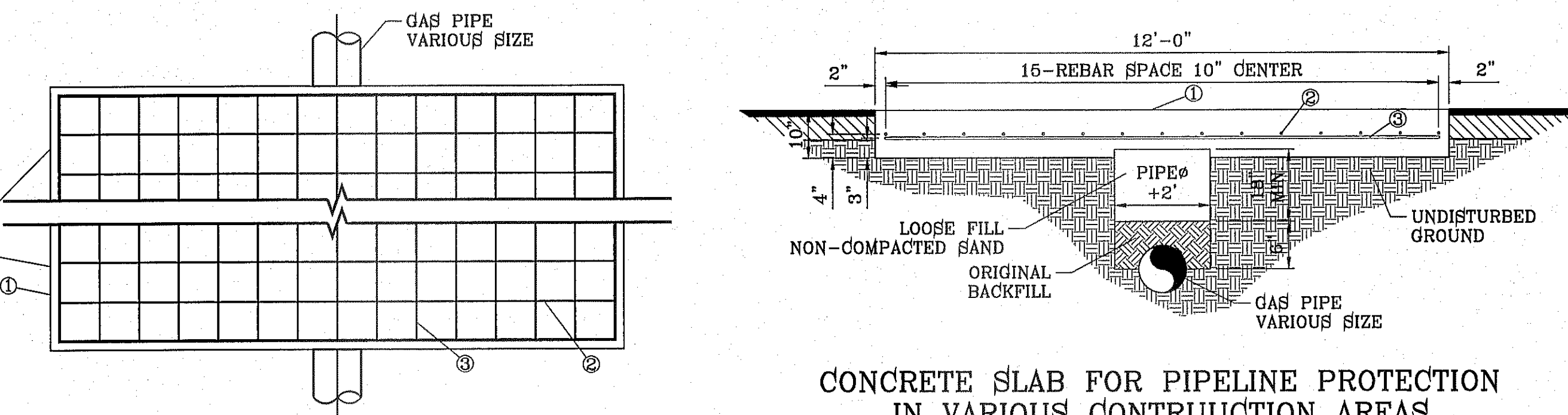
NOTE:
ALL WHEELCHAIR RAMPS BY DEVELOPER

CURVE TABLE						CURVE TABLE							
CURVE	RADIUS	LENGTH	TANGENT	CHORD	BEARING	DELTA	CURVE	RADIUS	LENGTH	TANGENT	CHORD	BEARING	DELTA
C43	35.00'	55.32'	35.34'	49.74'	S44°41'30"W	90°33'18"	C49	35.00'	54.64'	34.66'	49.26'	S45°18'30"E	89°26'42"
C44	35.00'	54.64'	34.66'	49.26'	N45°18'30"W	89°26'42"	C50	35.00'	55.32'	35.34'	49.74'	N44°41'30"E	90°33'18"
C45	35.00'	55.32'	35.34'	49.74'	N44°41'30"E	90°33'18"	C51	35.00'	54.64'	34.66'	49.26'	N45°18'30"W	89°26'42"
C46	35.00'	54.64'	34.66'	49.26'	S45°18'30"E	89°26'42"	C52	30.00'	47.41'	30.29'	42.63'	S44°41'30"W	90°33'18"
C47	35.00'	54.64'	34.66'	49.26'	N45°18'30"W	89°26'42"	C53	30.00'	46.83'	29.71'	42.22'	S45°18'30"E	89°26'42"
C48	35.00'	55.32'	35.34'	49.74'	S44°41'30"W	90°33'18"	C54	35.00'	55.32'	35.34'	49.74'	N44°41'30"E	90°33'18"

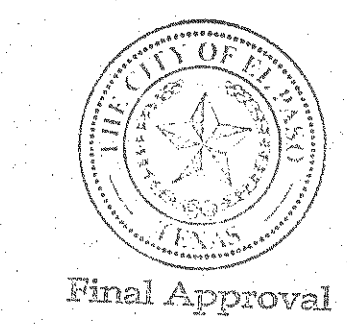
SCALE: 1" = 30'



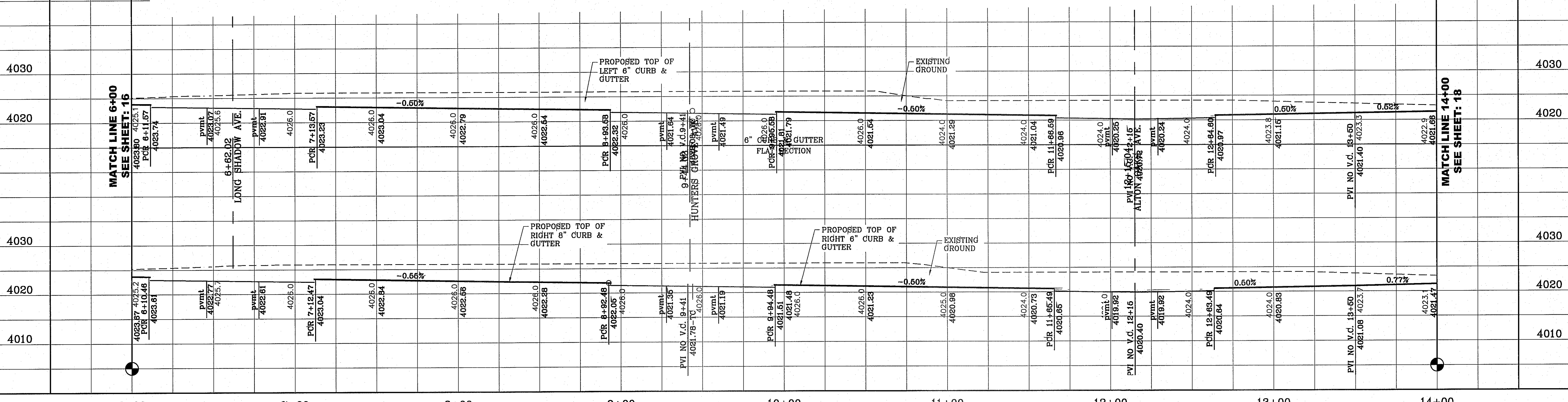
MATERIAL REQUIRED				
ITEM	QTY	SIZE	DESCRIPTION	
1	.37 CU. YD. / UN. FT.	12' x 60' Avg. x 10"	CONCRETE, HIGH EARLY STRENGTH, ASTM C 150 TYPE III 4000# 28 DAY STRENGTH	
2	16	11'-8" Ld.	#6 REBAR - 10" C TO C	
3	16	VARIABLE LENGHT	#6 REBAR - 10" C TO C	



CONCRETE SLAB FOR PIPELINE PROTECTION IN VARIOUS CONTRUCTION AREAS



FILE LOCATION: S:\Subdivisions\YDE 72\TDE 72-PP02_MIKE PRICE PLOTTED ON Tuesday, December 02, 2014 2:30:44 PM BY ROGER ORTEGA



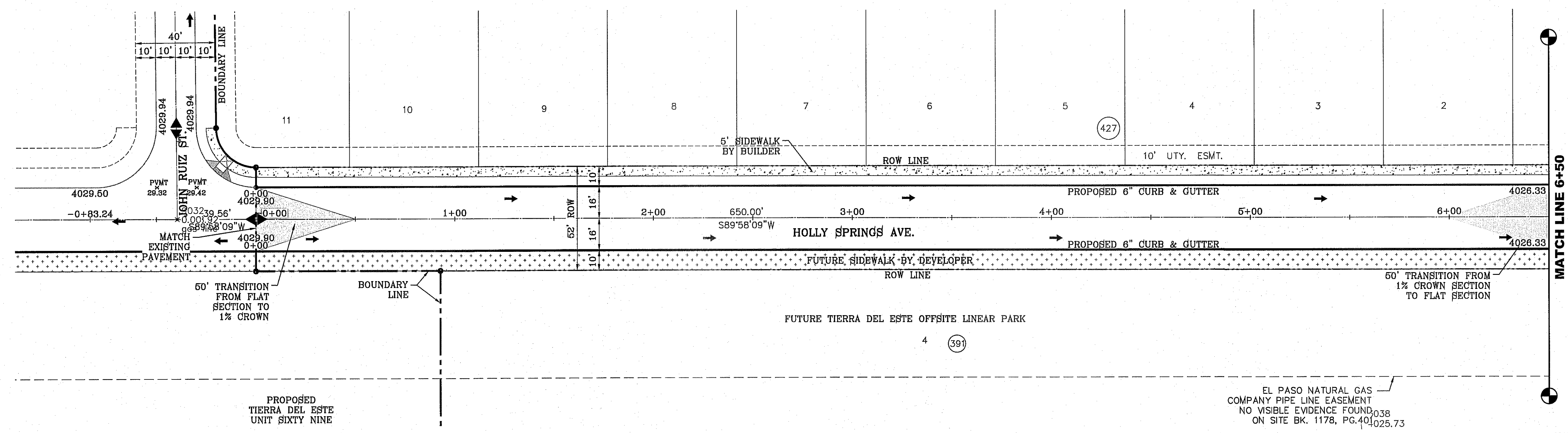
PROJECT NAME: **TIERRA DEL ESTE UNIT SEVENTY TWO**
 CITY MONUMENT AT THE CENTERLINE INTERSECTION OF HUNTERS GROVE DR. AND LONG SHADOW AVE. ELEVATION 4025.88 CITY DATUM
 BENCHMARK:
 DATE: 10-09-2013
 CITY REVISIONS - MISC REVISION
 BY: R.O.
 R.O.

BEING PORTION OF SECTIONS 37 AND 48, BLOCK 79, TOWNSHIP 2, TEXAS AND PACIFIC RAILWAY CO. SURVEYS, CITY OF EL PASO, EL PASO COUNTY, TEXAS
 CONTAINING: 97,561.2 ACRES

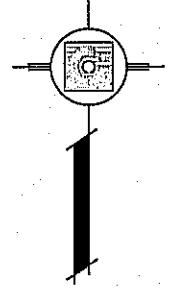
ENGINEER'S SEAL: [Seal]
 CONDE INC. ENGINEERING / PLANNING / SURVEYING / GPS
 6080 SURVEY DR. STE 100 EL PASO, TEXAS 79905
 PHONE: (915) 592-0285 FAX: (915) 592-0286

SHEET TITLE: **MIKE PRICE DR.**
 STREET PLAN - PROFILE
 SHT 17 OF 70

FILE LOCATION: S:\Subdivisions\TDE 72\TDE 72-P04_HOLLY SPRINGS PLOTTED ON Friday, August 08, 2014 11:08:42 AM BY ROGER ORTEGA

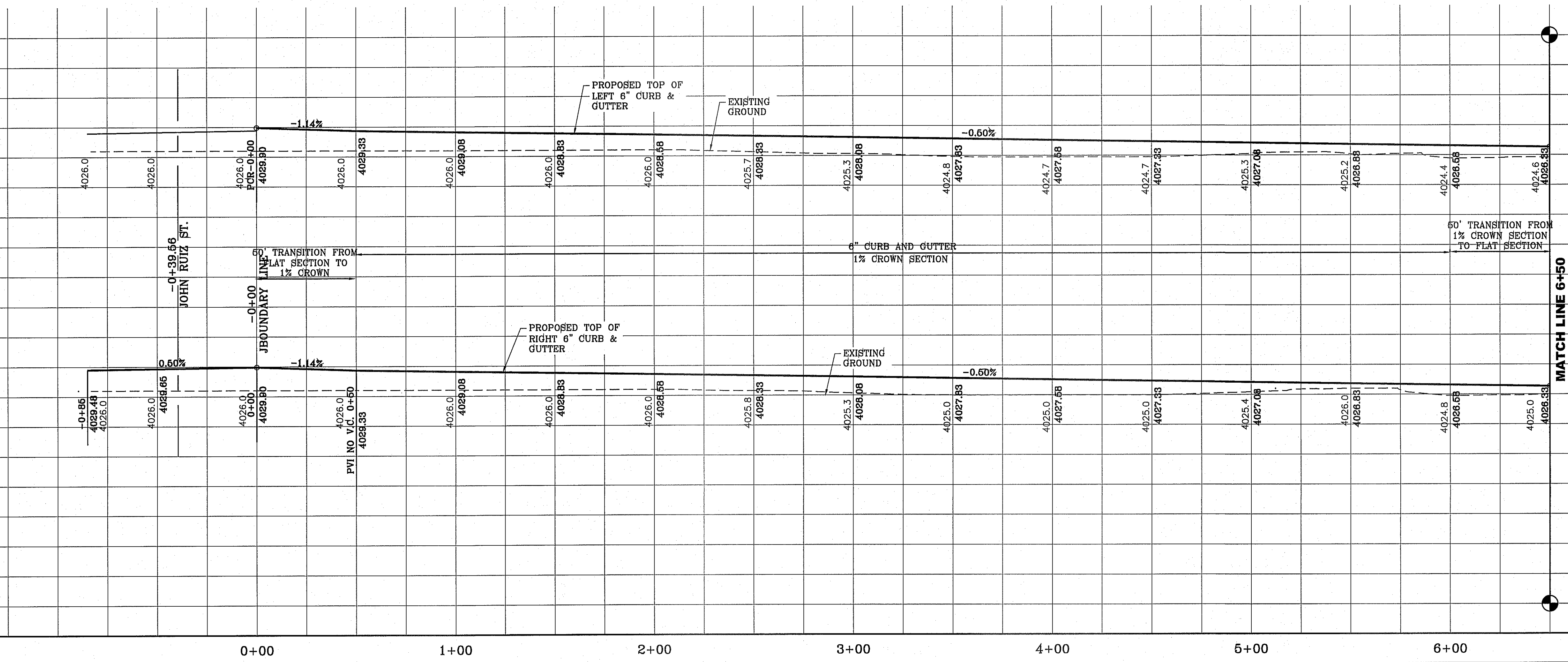


SCALE: 1" = 30'



BENCHMARK	CITY MONUMENT AT THE CENTERLINE INTERSECTION OF RALPH SPAININGER DR. AND CALICENY PL. ELEVATION 4025.93
DATE	10-09-2013
REVISIONS	CITY REDLINES - MISC REVISION
BY	R.O.

TIERRA DEL ESTE UNIT SEVENTY TWO
 BEING PORTION OF SECTIONS 37 AND 48, BLOCK 79, TOWNSHIP 2, TEXAS AND PACIFIC RAILWAY CO. SURVEYS, CITY OF EL PASO, EL PASO COUNTY, TEXAS CONTAINING: 97,501.6 ACRES



MATCH LINE 6+50 SEE SHEET: 20

MATCH LINE 6+50 SEE SHEET: 20

NOTE: ALL WHEELCHAIR RAMPS BY DEVELOPER

EL PASO NATURAL GAS COMPANY PIPE LINE EASEMENT
 NO VISIBLE EVIDENCE FOUND ON SITE BK. 1178, PG. 40

SCALE	HORIZ: 1" = 30'
	VERT: 1" = 10'
DATE	SEPT. 2013
DESIGN BY	Y.C.
INITIATED BY	R.O.
CHECKED BY	Y.C.
JOB NO.	112-08

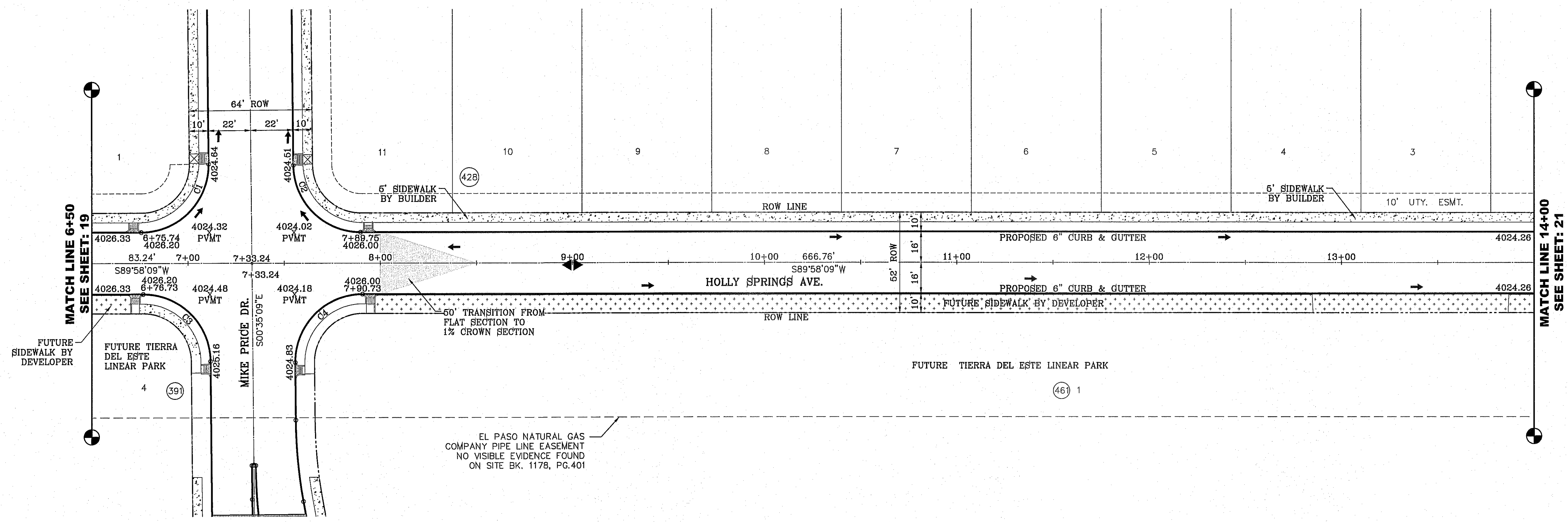
CONDE INC.
 ENGINEERING / PLANNING SURVEYING / GPS
 6080 SURETY DR. STE 100 EL PASO, TEXAS 79905
 PHONE: (915) 592-0283 FAX: (915) 592-0286



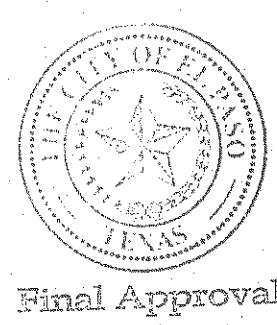
SHEET TITLE
HOLLY SPRINGS AVE.

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 FILE LOCATION S:\Subdivisions\TDE 72\TDE 72-04\HOLLY SPRINGS PLOTTED ON Tuesday, December 02, 2014 2:30:56 PM BY ROGER ORTEGA

CURVE TABLE						
CURVE	RADIUS	LENGTH	TANGENT	CHORD	BEARING	DELTA
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C2	35.00'	54.64'	34.66'	49.26'	S45°18'30"E	89°26'42"
C3	35.00'	54.64'	34.66'	49.26'	N45°18'30"W	89°26'42"
C4	35.00'	55.32'	35.34'	49.74'	S44°41'30"W	90°33'18"



SCALE: 1" = 30'



NOTE:
ALL WHEELCHAIR RAMPS BY DEVELOPER

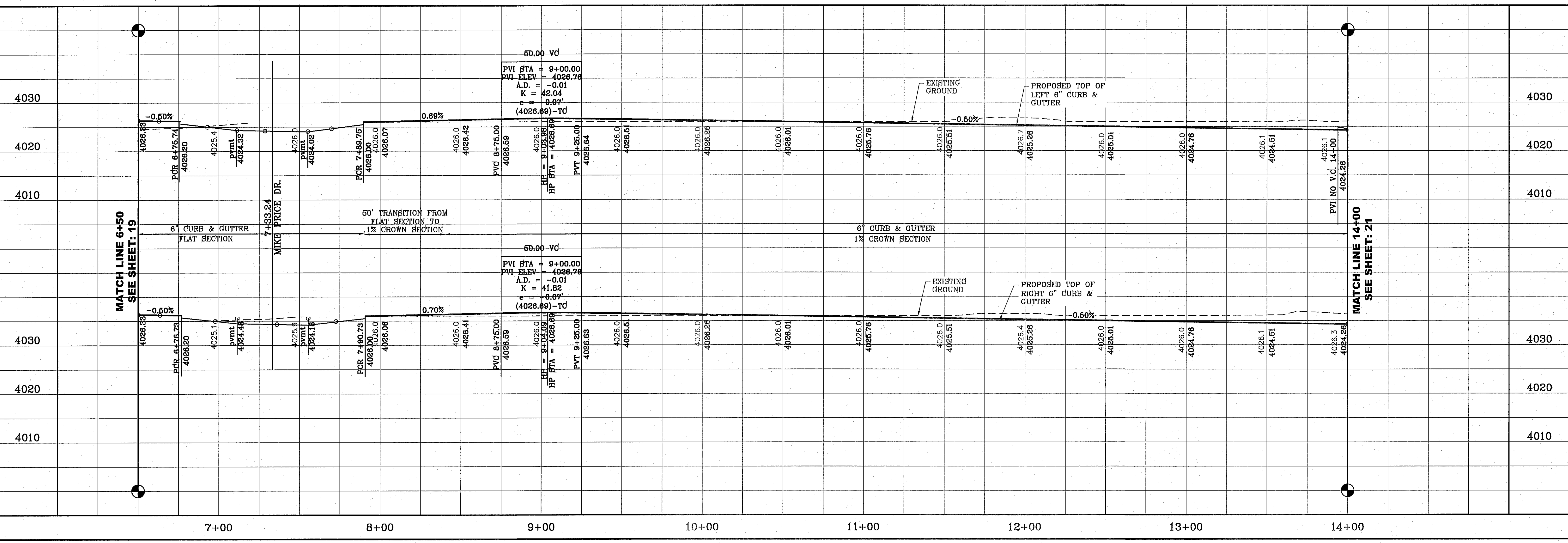
BENCHMARK	
CITY MONUMENT AT THE CENTERLINE INTERSECTION OF RALPH SEITZINGER DR. AND GALICENO PL. ELEVATION 4025.95CITY DATUM
DATE	REVISIONS
10-29-2013	CITY REDLINES - MISC REVISION
BY	R.O.

PROJECT NAME
TIERRA DEL ESTE UNIT SEVENTY TWO
 BEING PORTION OF SECTIONS 37 AND 48, BLOCK 79, TOWNSHIP 2, TEXAS AND PACIFIC RAILWAY CO. SURVEYS, CITY OF EL PASO, EL PASO COUNTY, TEXAS CONTAINING: 97.561± ACRES

S C A L E	
HORIZ: 1" = 30'	VERT: 1" = 10'
DATE: SEPT. 2013	DESIGN BY: Y.C.
INITIATED BY: R.O.	CHECKED BY: Y.C.
JOB NO.: 112-08	

ENGINEER'S SEAL

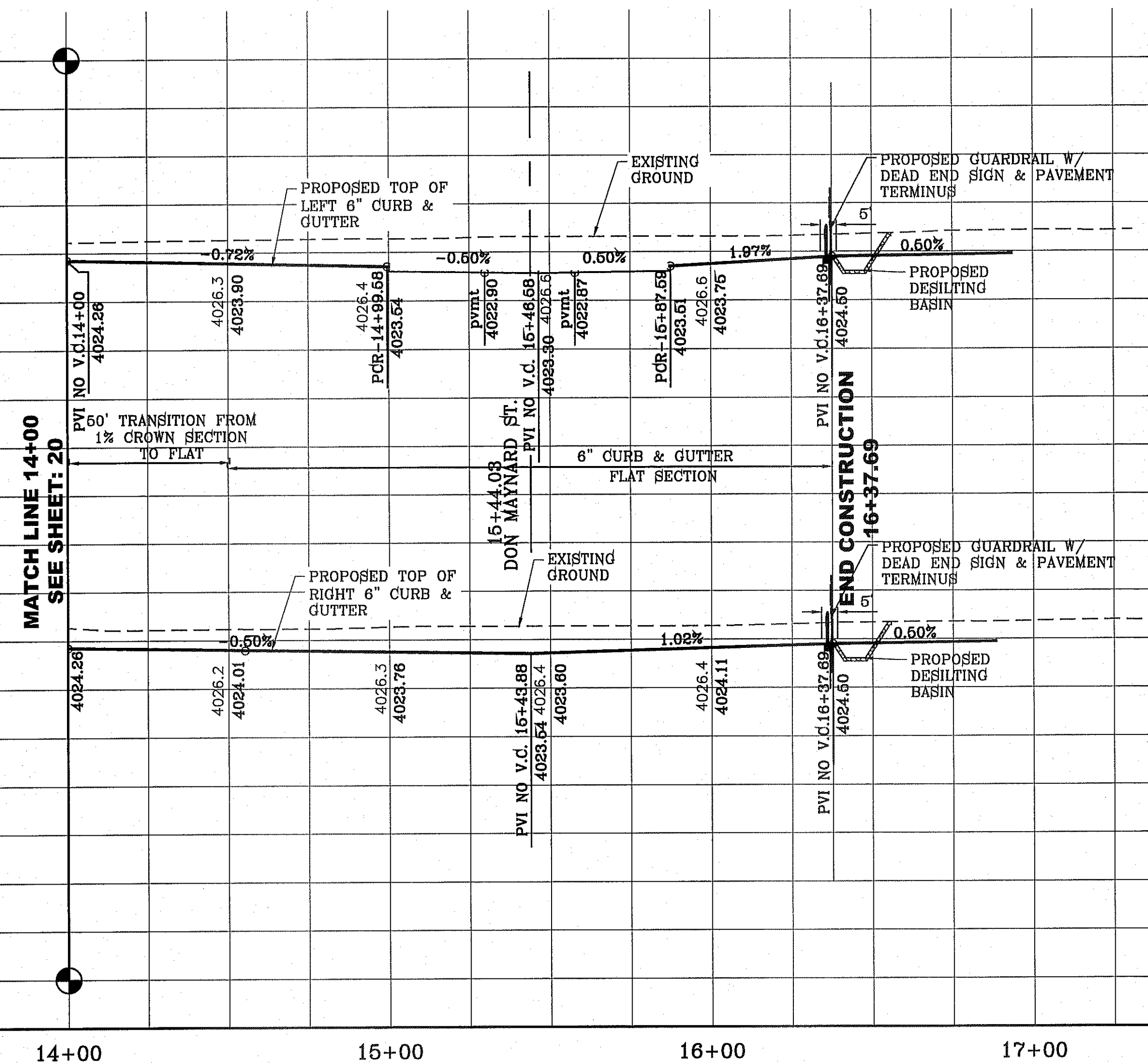
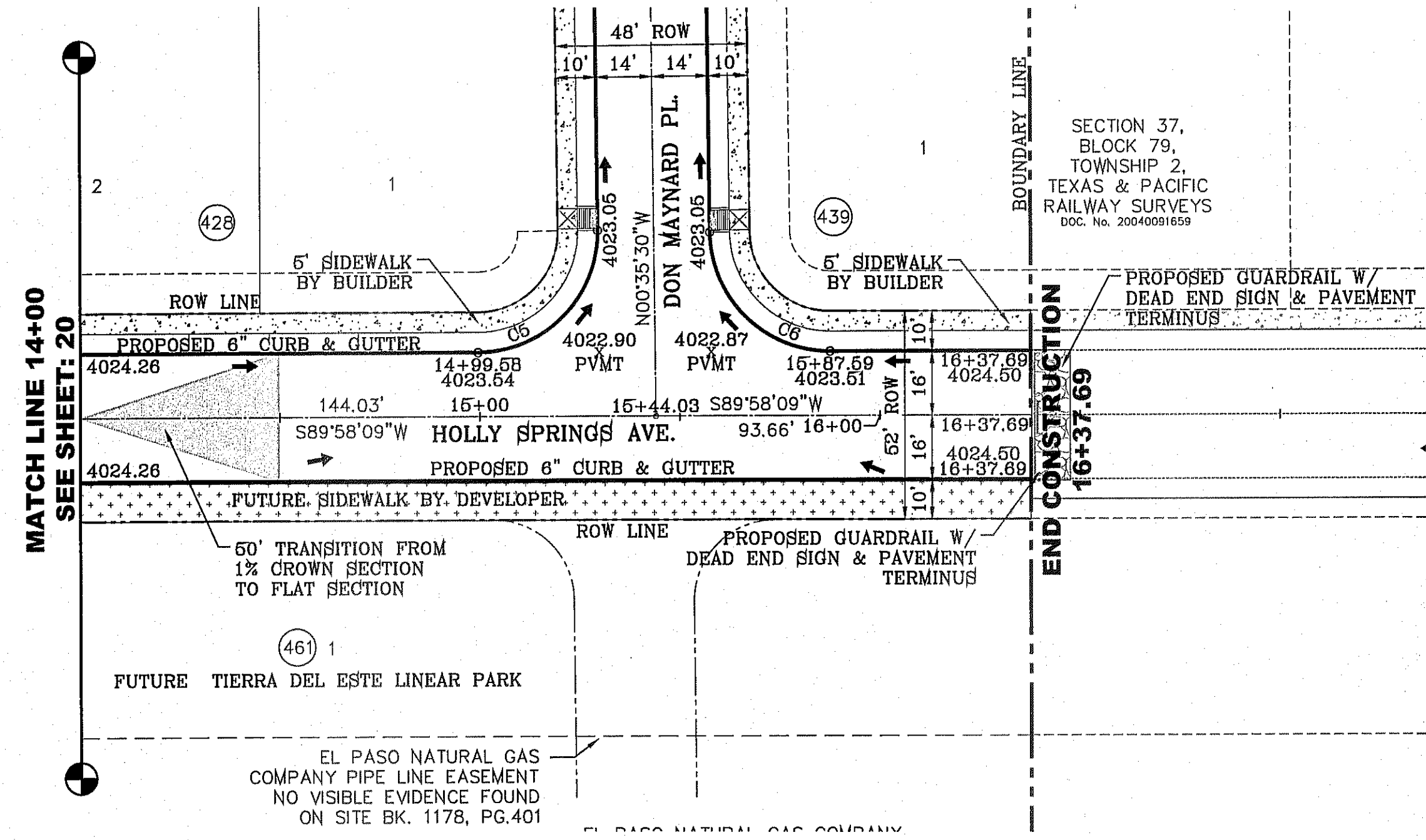
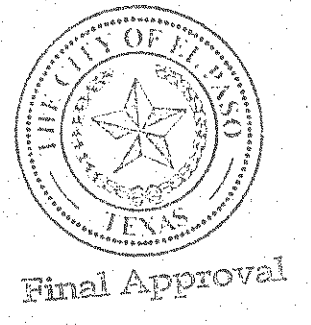
CONDE INC.
 ENGINEERING / PLANNING SURVEYING / GPS
 6080 SURETY DR. STE 100
 EL PASO, TEXAS 79905
 PHONE: (915) 592-0283
 FAX: (915) 592-0286



SHEET TITLE
HOLLY SPRINGS AVE.
 SHT 20 OF 70

CURVE TABLE						
CURVE	RADIUS	LENGTH	TANGENT	CHORD	BEARING	DELTA
C5	30.00'	47.42'	30.30'	42.63'	N44°41'20"E	90°33'38"
C6	30.00'	46.83'	29.71'	42.22'	S45°18'40"E	89°26'22"

SCALE: 1" = 30'



NOTE:
ALL WHEELCHAIR RAMPS BY DEVELOPER

BENCHMARK	CITY MONUMENT AT THE CENTERLINE INTERSECTION OF RALPH SEITZINGER DR. AND CALICENO PL. ELEVATION 4025.88	BY R.O.
DATE	10-29-2013	BY R.O.
REVISIONS	CITY REVISIONS - MISC REVISION	BY R.O.

PROJECT NAME
**TIERRA DEL ESTE
UNIT SEVENTY TWO**

BEING PORTION OF SECTIONS 37 AND 48, BLOCK 79, TOWNSHIP 2, TEXAS AND PACIFIC RAILWAY CO. SURVEYS, CITY OF EL PASO, EL PASO COUNTY, TEXAS CONTAINING: 97,561.1 ACRES

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

DATE: SEPT. 2013
DESIGN BY: Y.C.
INITIATED BY: R.O.
CHECKED BY: Y.C.
JOB NO.: 112-08

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**

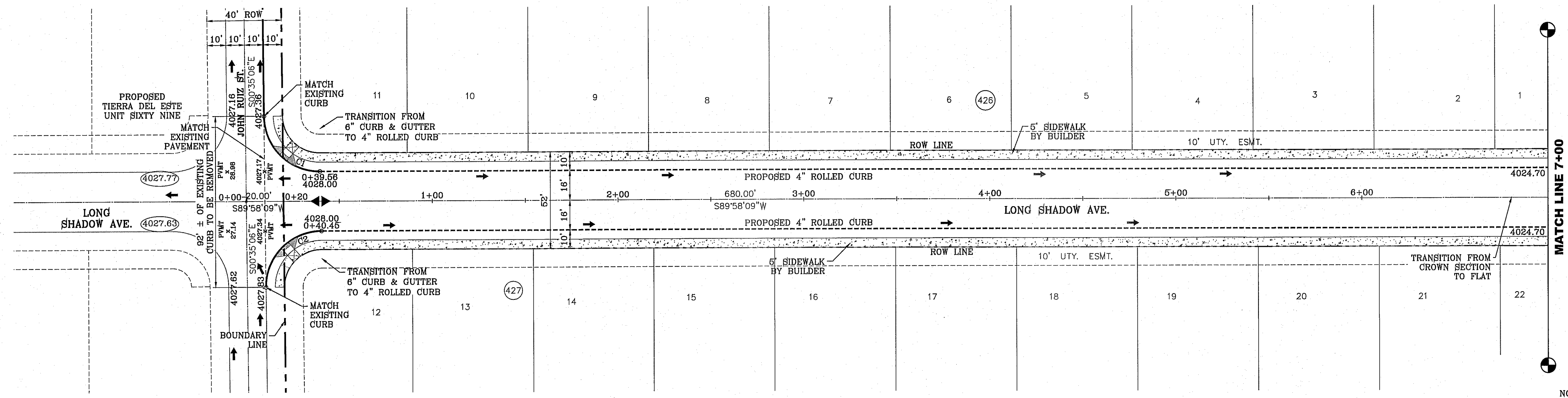
**HOLLY
SPRINGS AVE.**

FILE LOCATION: S:\Subdivisions\TDE 72\TDE 72-PP04_HOLLY SPRINGS PLOTTED ON Friday, August 08, 2014 11:08:49 AM BY ROGER ORTEGA
 S:\Subdivisions\TDE 72\TDE 72-PP04_HOLLY SPRINGS PLOTTED ON Friday, August 08, 2014 11:08:49 AM

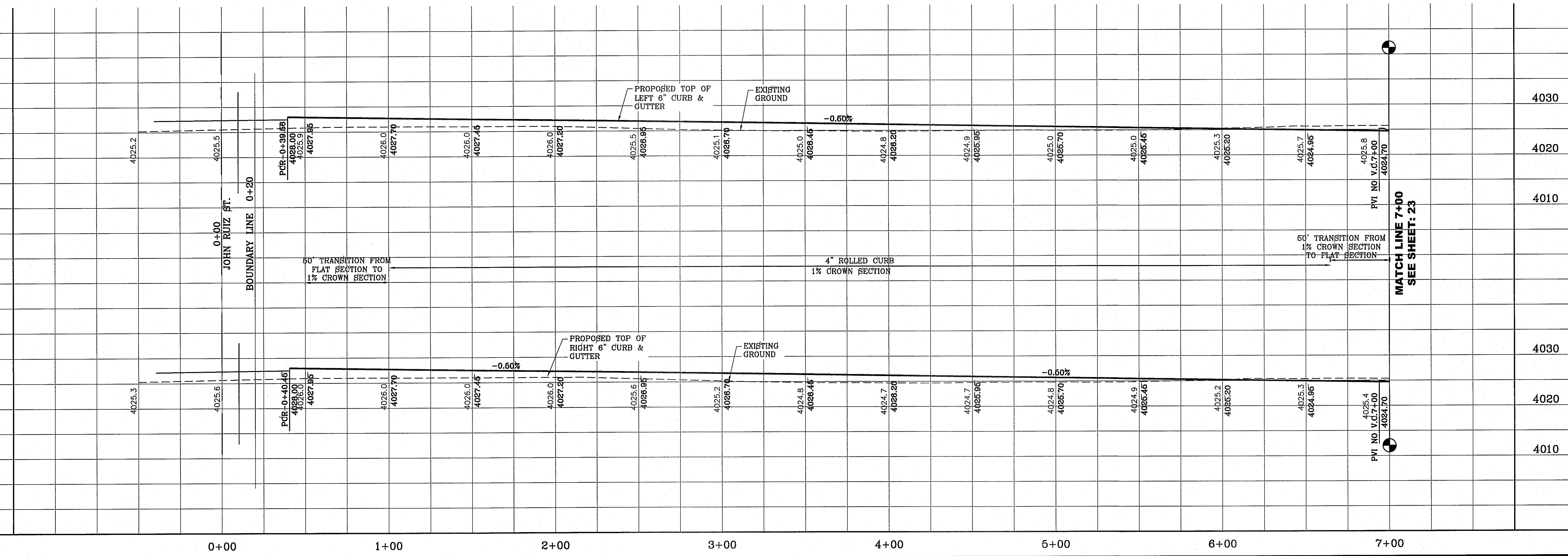
S:\2013\Projects\08080\08080.dwg PLOTTED ON Friday, August 08, 2014 11:06:56 AM BY ROGER ORTEGA
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CURVE TABLE						
CURVE	RADIUS	LENGTH	TANGENT	CHORD	BEARING	DELTA
C1	30.00'	46.83'	29.71'	42.22'	S45°18'29"E	89°26'45"
C2	30.00'	47.41'	30.29'	42.63'	S44°41'31"W	90°33'15"

SCALE: 1" = 30'



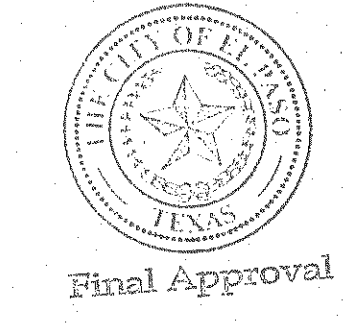
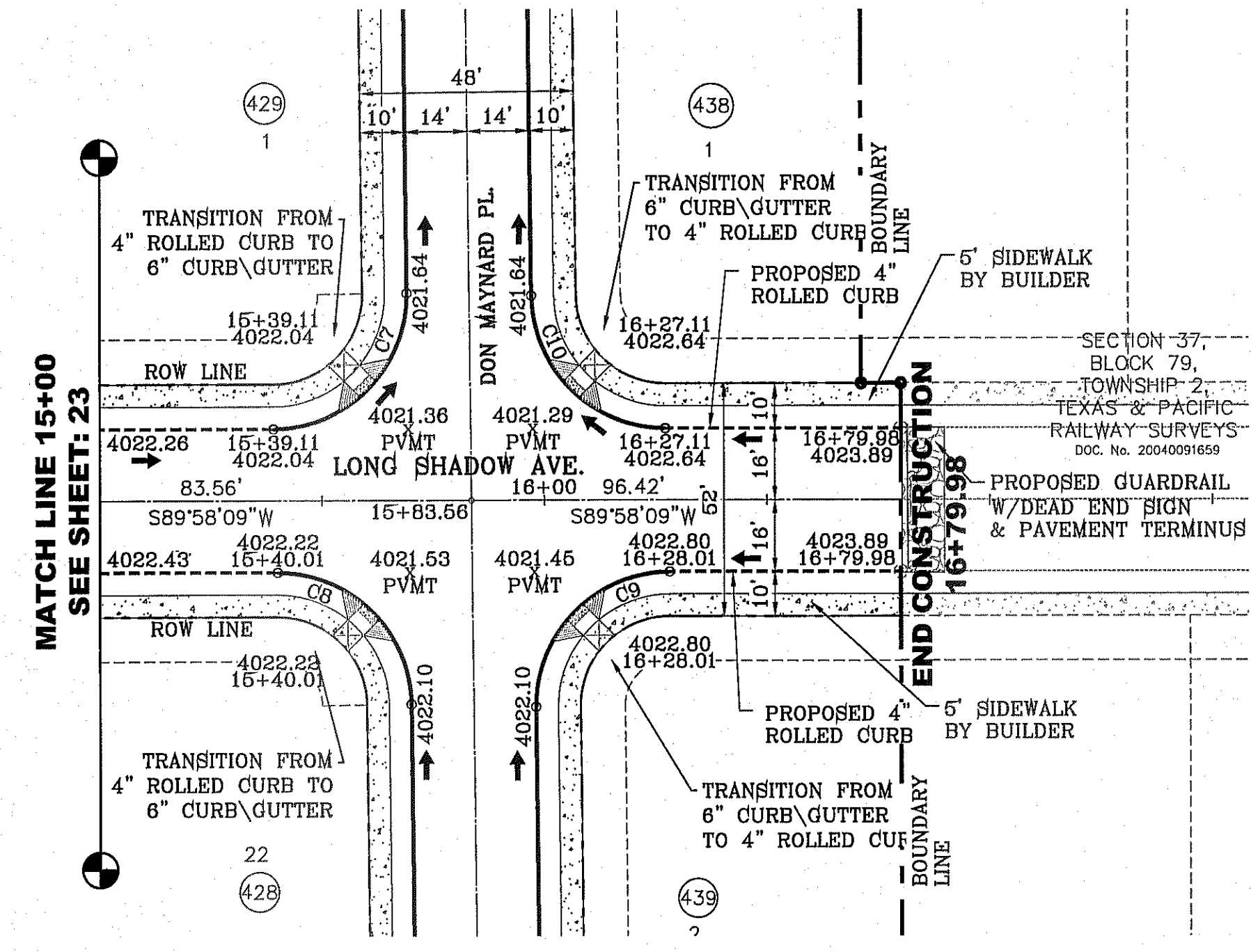
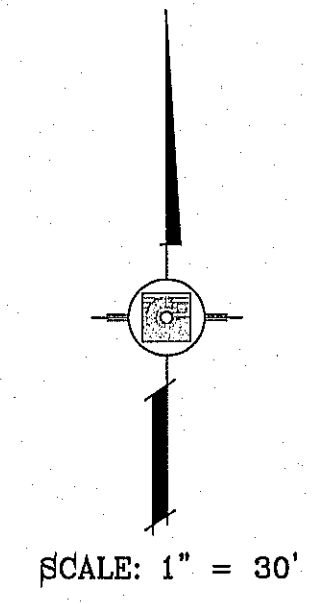
NOTE:
ALL WHEELCHAIR RAMPS BY DEVELOPER



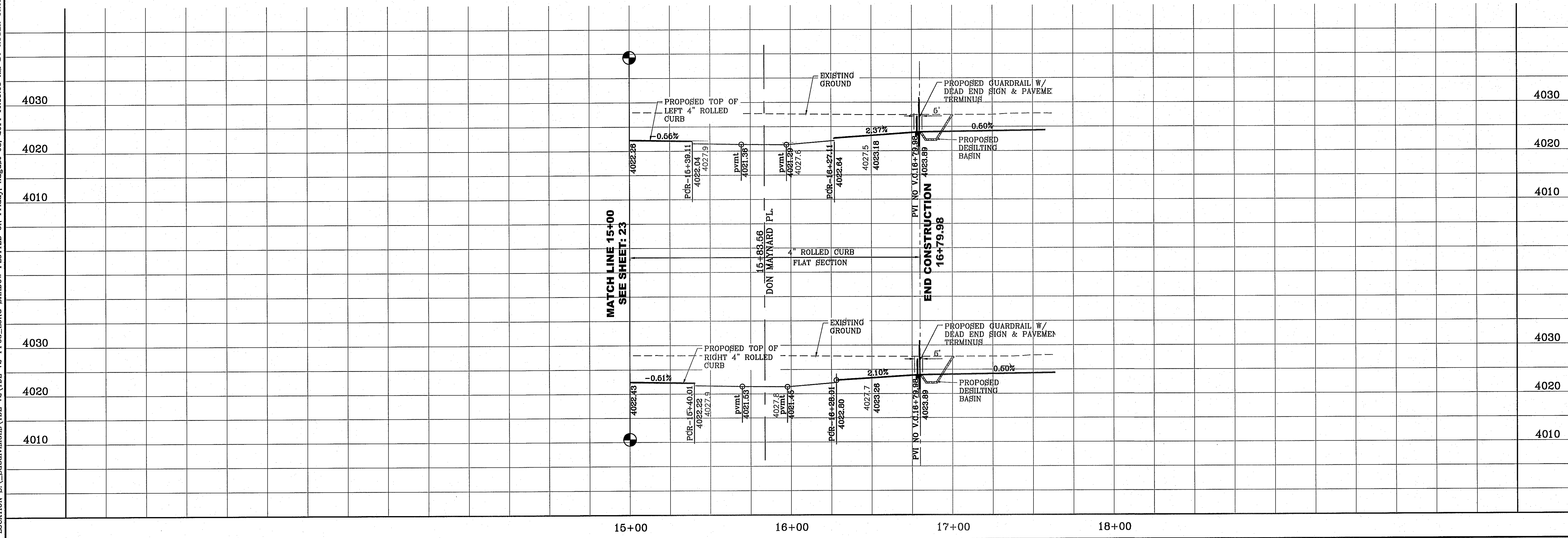
BENCHMARK	CITY MONUMENT AT THE CENTERLINE INTERSECTION OF RALPH SEITSINGER DR. AND GALICENO PL. ELEVATION 4025.93 CITY DATUM
REVISIONS	BY
CITY REVISIONS	R.O.
DATE	10-29-2013
TERRA DEL ESTE UNIT SEVENTY TWO BEING PORTION OF SECTIONS 97 AND 48, BLOCK 79, TOWNSHIP 20N, RANGE 10E, COUNTY OF EL PASO, TEXAS CITY OF EL PASO, EL PASO COUNTY, TEXAS CONTAINING: 97.561± ACRES	
PROJECT NAME	
SCALE	HORIZ: 1" = 30' VERT: 1" = 10'
DATE	SEPT. 2013
DESIGN BY	Y.C.
INITIATED BY	R.O.
CHECKED BY	Y.C.
JOB NO.	112-08
ENGINEER'S SEAL	
ENGINEERING / PLANNING SURVEYING / GPS	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 SHADOW AVE.
SHT 22 OF 70	

S:\2013\Projects\2013\72205\006\3000\72205_006_001.dwg PLOTTED ON Friday, August 08, 2014 11:09:05 AM BY ROGER ORTEGA
 FILE LOCATION S:\Subdivisions\72205\72205_006_001.dwg

CURVE TABLE						
CURVE	RADIUS	LENGTH	TANGENT	CHORD	BEARING	DELTA
C7	30.00'	47.42'	30.30'	42.63'	N44°41'20"E	90°33'38"
C8	30.00'	46.83'	29.71'	42.22'	N45°18'40"W	89°26'22"
C9	30.00'	47.42'	30.30'	42.63'	S44°41'20"W	90°33'38"
C10	30.00'	46.83'	29.71'	42.22'	S45°18'40"E	89°26'22"

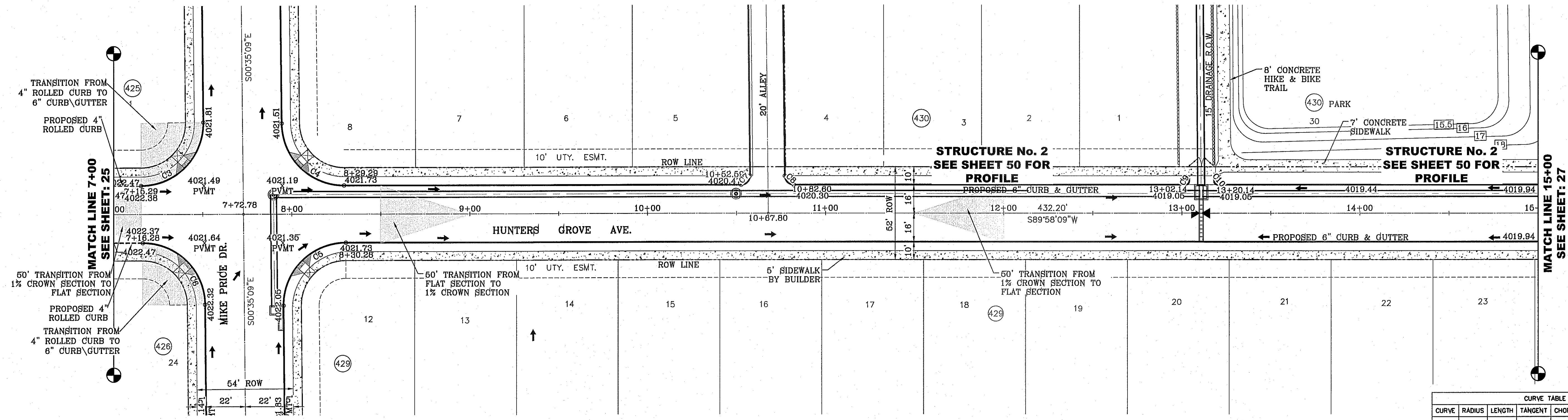


NOTE:
ALL WHEELCHAIR RAMPS BY DEVELOPER



BENCHMARK	CITY MONUMENT AT THE CENTERLINE INTERSECTION OF RALPH SEITSINGER DR. AND GALICENO PL. ELEVATION 4025.93 CITY DATUM
REVISIONS	BY R.O.
DATE	CITY RELINES - MISC REVISION
10-28-2013	
 Final Approval	
PROJECT NAME	TIERRA DEL ESTE UNIT SEVENTY TWO BEING PORTION OF SECTIONS 37 AND 48, BLOCK 79, TOWNSHIP 2 NORTH, RANGE 10 EAST, COUNTY OF EL PASO, CITY OF EL PASO, EL PASO COUNTY, TEXAS CONTAINING: 97,561± ACRES
SCALE	HORIZ: 1" = 30' VERT: 1" = 10' DATE: SEPT. 2013 DESIGN BY: Y.C. INITIATED BY: R.O. CHECKED BY: Y.C. JOB NO.: 112-08
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 SHADOW AVE.	
SHT 24 OF 70	

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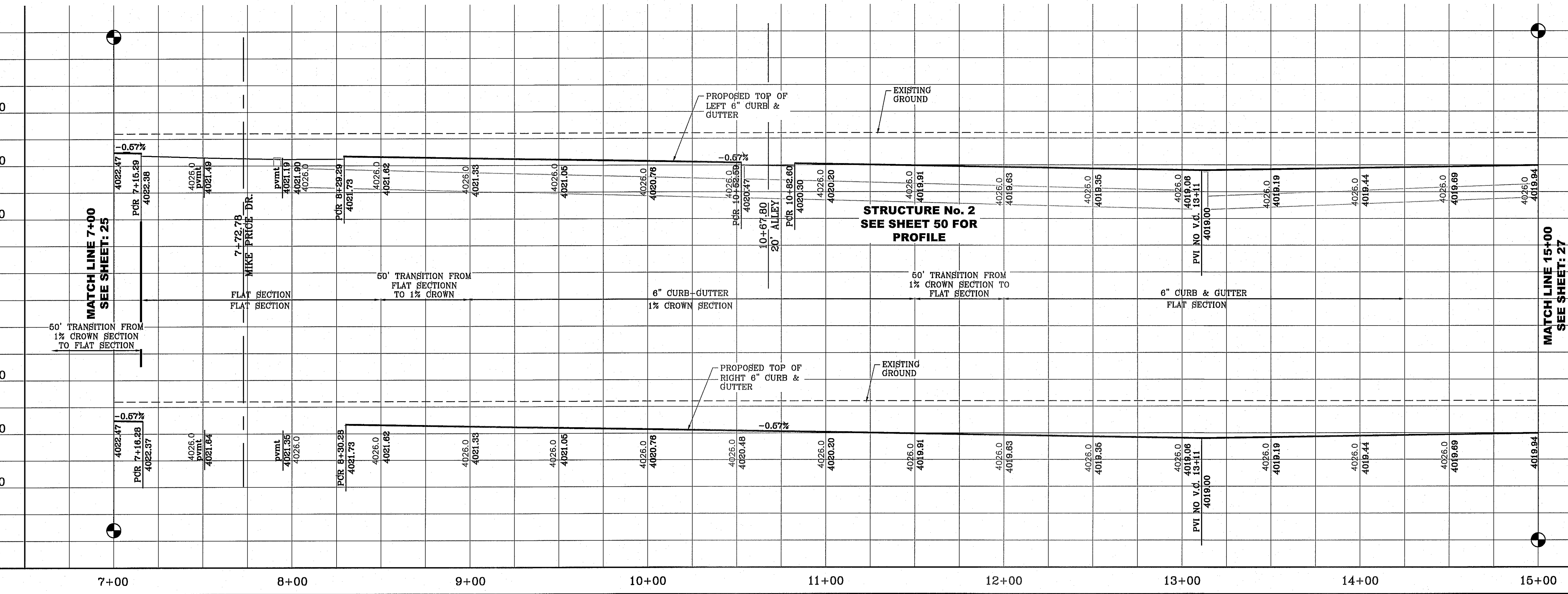


SCALE: 1" = 30'



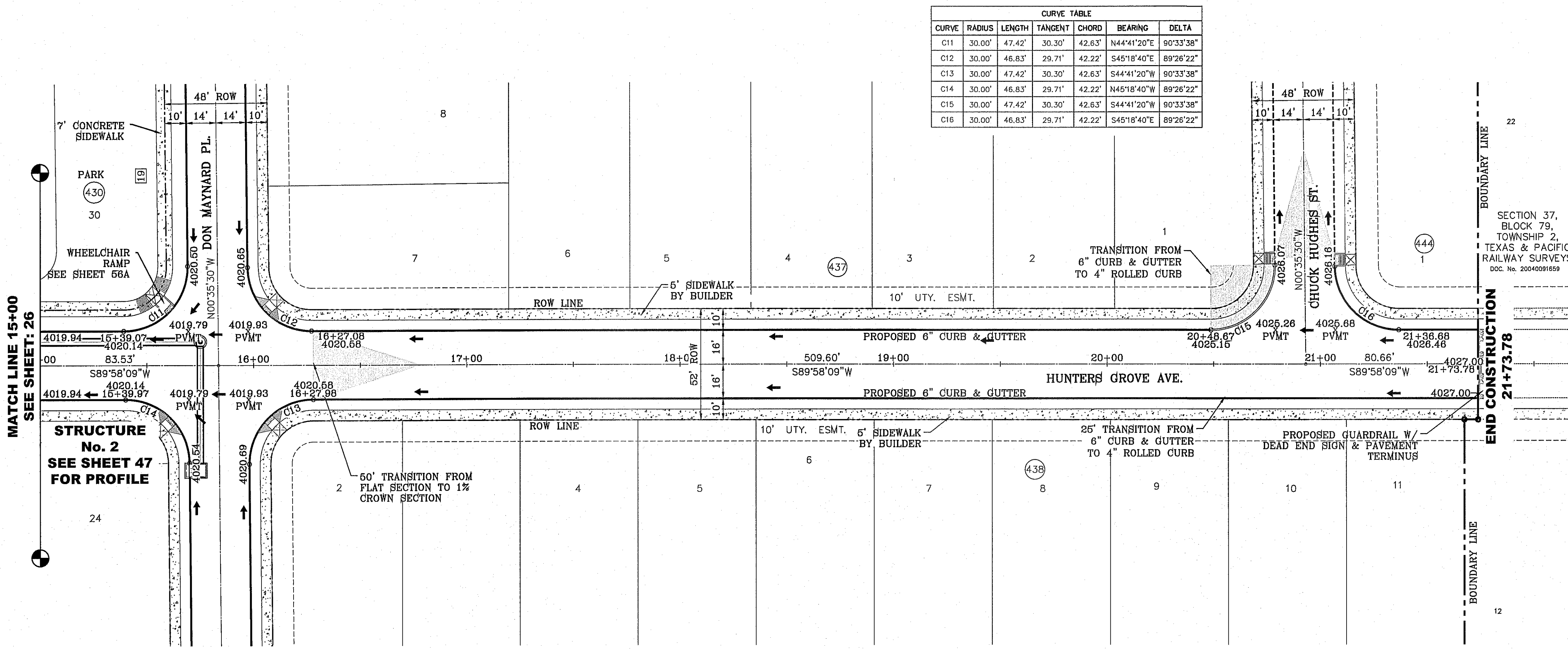
CURVE TABLE						
CURVE	RADIUS	LENGTH	TANGENT	CHORD	BEARING	DELTA
C3	35.00'	55.32'	35.34'	49.74'	N44°41'30"E	90°33'18"
C4	35.00'	54.64'	34.66'	49.26'	S45°18'30"E	89°26'42"
C5	35.00'	55.32'	35.34'	49.74'	S44°41'30"W	90°33'18"
C6	35.00'	54.64'	34.66'	49.26'	N45°18'30"W	89°26'42"
C7	5.00'	7.90'	5.05'	7.11'	N44°41'30"E	90°33'18"
C8	5.00'	7.81'	4.95'	7.04'	S45°18'30"E	89°26'42"
C9	2.00'	3.16'	2.02'	2.84'	N44°41'30"E	90°33'18"
C10	2.00'	3.12'	1.98'	2.81'	S45°18'30"E	89°26'42"

NOTE:
ALL WHEELCHAIR RAMPS BY DEVELOPER

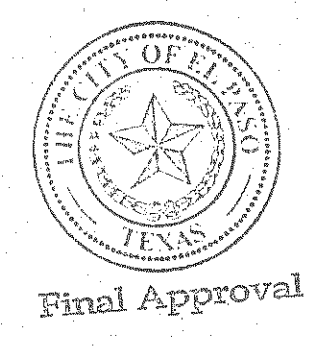


PROJECT NAME: TIERRA DEL ESTE UNIT SEVENTY TWO
 BEING PORTION OF SECTIONS 37 AND 48, BLOCK 79, TOWNSHIP 2, TEXAS AND PACIFIC RAILWAY CO. SURVEYS, CITY OF EL PASO, EL PASO COUNTY, TEXAS CONTAINING: 87,501 ± ACRES
 BENCHMARK: CITY MONUMENT AT THE CENTERLINE INTERSECTION OF RAMPARTS AVENUE, R. AND ALAMO, P.L. ELEVATION 4026.93 CITY DATUM
 REVISIONS: BY DATE CITY REVISIONS - MISC REVISION R.O.
 10-29-2013
 SCALE: HORIZ. 1" = 30' VERT. 1" = 10'
 DATE: SEPT. 2013
 DESIGN BY: Y.C.
 INITIATED BY: R.O.
 CHECKED BY: Y.C.
 JOB NO.: 112-08
 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
 HUNTERS GROVE AVE.
 SHT 26 OF 70

S:\Projects\2014\08\08\2014_11_09_22 AM BY ROGER ORTEGA
 FILE LOCATION S:\Subdivisions\TDE 72\TDE 72-PO6_HUNTER-1 PLOTTED ON Friday, August 08, 2014 11:09:22 AM BY ROGER ORTEGA

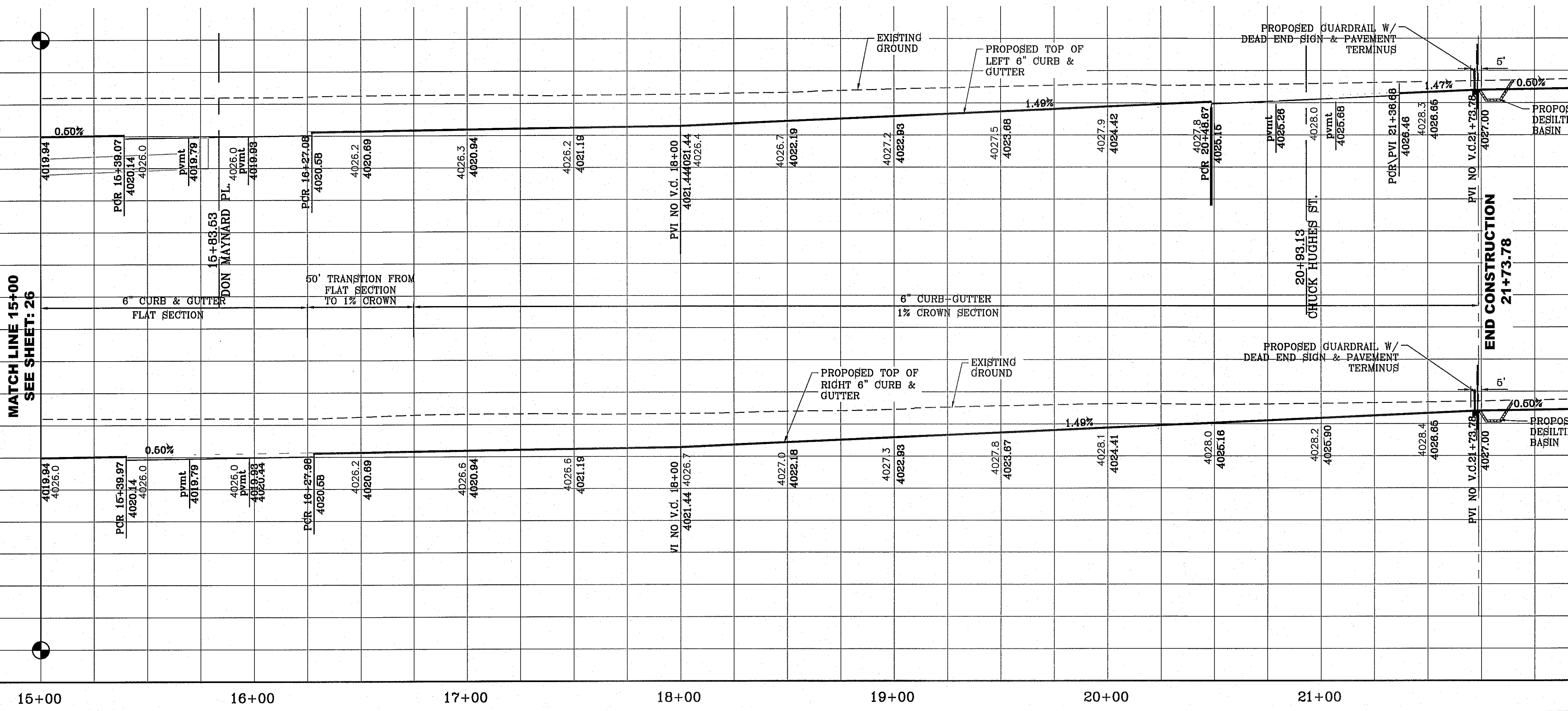


SCALE: 1" = 30'



BENCHMARK	
CITY MONUMENT AT THE CENTERLINE INTERSECTION OF RALPH SETTSINGER DR. AND GALLICENO PL. ELEVATION 4025.93CITY DATUM
DATE	REVISIONS
10-29-2013	CITY REVISIONS - MISC REVISION
BY	R.O.

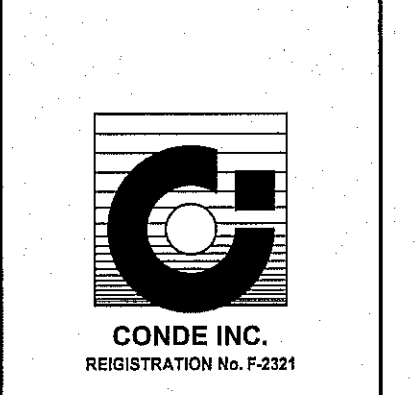
TERRA DEL ESTE
UNIT SEVENTY TWO
 BEING PORTION OF SECTIONS 37 AND 48, BLOCK 79, TOWNSHIP 2, RANGE 2, COUNTY OF EL PASO, TEXAS, CITY OF EL PASO, EL PASO COUNTY, TEXAS CONTAINING: 97,651 ± ACRES



NOTE: ALL WHEELCHAIR RAMPS BY DEVELOPER

SCALE	
HORIZ: 1" = 30'	VERT: 1" = 10'
DATE: SEPT. 2013	DESIGN BY: Y.C.
INITIATED BY: R.O.	CHECKED BY: Y.C.
JOB NO.: 112-08	

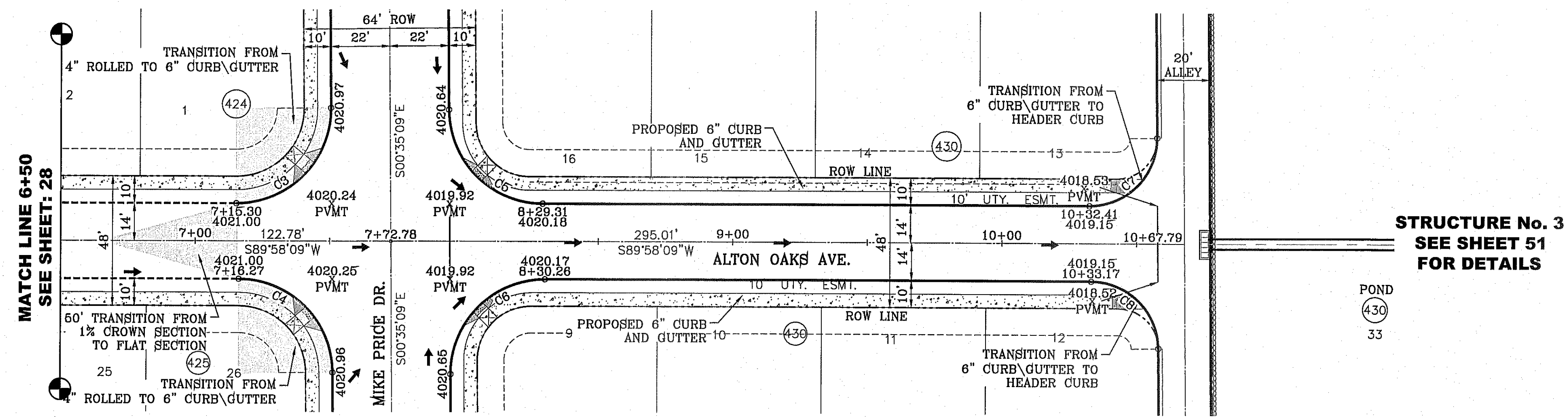
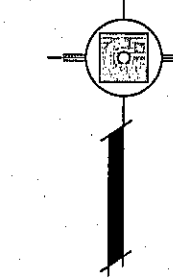
CONDE INC.
 ENGINEERING / PLANNING
 SURVEYING / GPS
 6090 SURETY DR. STE 100
 EL PASO, TEXAS 79905
 PHONE: (915) 592-0283
 FAX: (915) 592-0286



SHEET TITLE
STREET PLAN-PROFILE
HUNTERS GROVE AVE.

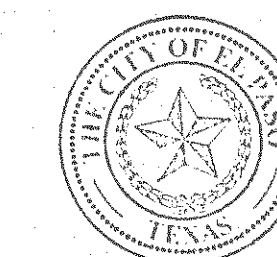
CURVE TABLE						
CURVE	RADIUS	LENGTH	TANGENT	CHORD	BEARING	DELTA
C3	35.00'	55.32'	35.34'	49.74'	N44°41'30"E	90°33'18"
C4	35.00'	54.64'	34.66'	49.26'	N45°18'30"W	89°26'42"
C5	30.00'	46.83'	29.71'	42.22'	S45°18'30"E	89°26'42"
C6	30.00'	47.41'	30.29'	42.63'	S44°41'30"W	90°33'18"
C7	15.00'	23.71'	15.15'	21.32'	N44°41'30"E	90°33'18"
C8	15.00'	23.42'	14.86'	21.11'	N45°18'30"W	89°26'42"

SCALE: 1" = 30'

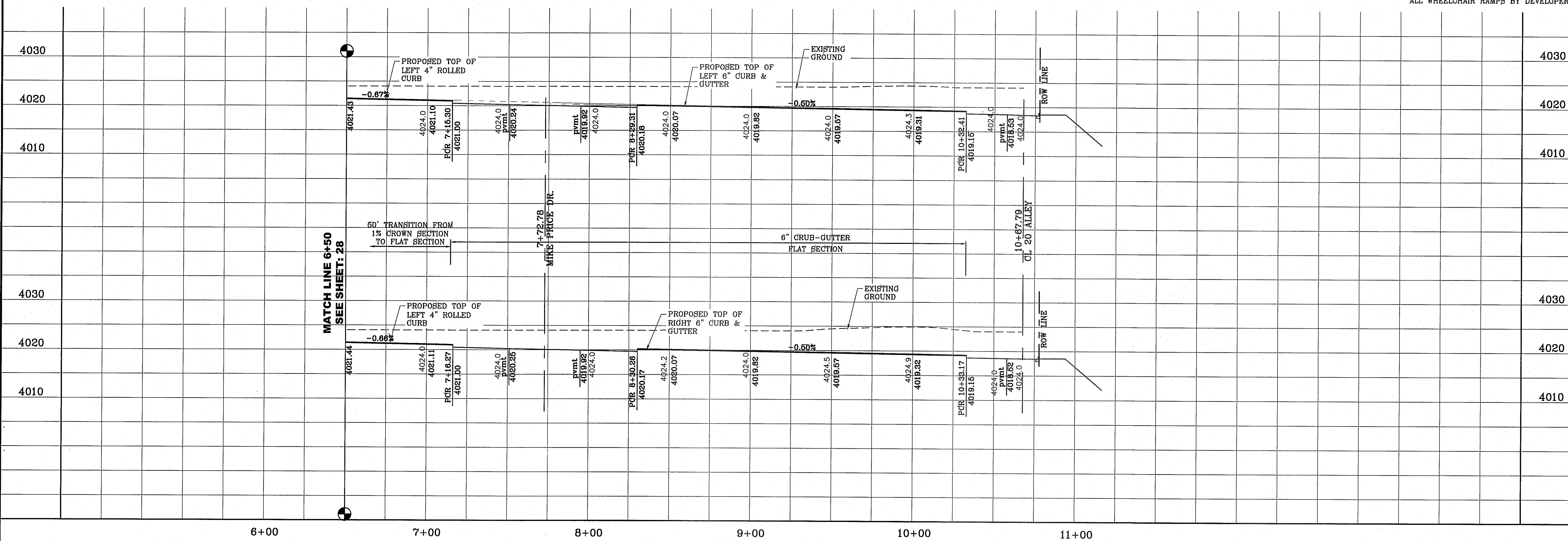


**STRUCTURE No. 3
SEE SHEET 51
FOR DETAILS**

POND
430
33



NOTE:
ALL WHEELCHAIR RAMPS BY DEVELOPER



BENCHMARK	CITY MONUMENT AT THE CENTERLINE INTERSECTION OF RALPH SEITZINGER DR. AND CALLETA PL. ELEVATION 4026.93 CITY DATUM
DATE	10-29-2013
REVISIONS	CITY REDLINES - MISC REVISION
BY	
R.O.	

**TERRA DEL ESTE
UNIT SEVENTY TWO**
BRING PORTION OF SECTIONS 37 AND 48, BLOCK 79,
TOWNSHIP 2, TEXAS AND PLACER COUNTY, CALIFORNIA,
CITY OF EL PASO, EL PASO COUNTY, TEXAS
CONTAINING: 97.650 ± ACRES

ENGINEER'S SEAL
STATE OF TEXAS
CONDE INC.
REGISTERED PROFESSIONAL ENGINEER
NO. 112-08

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



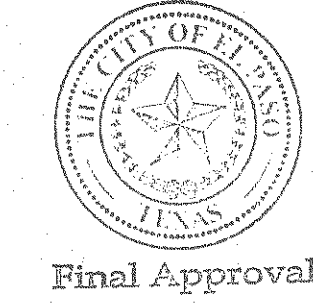
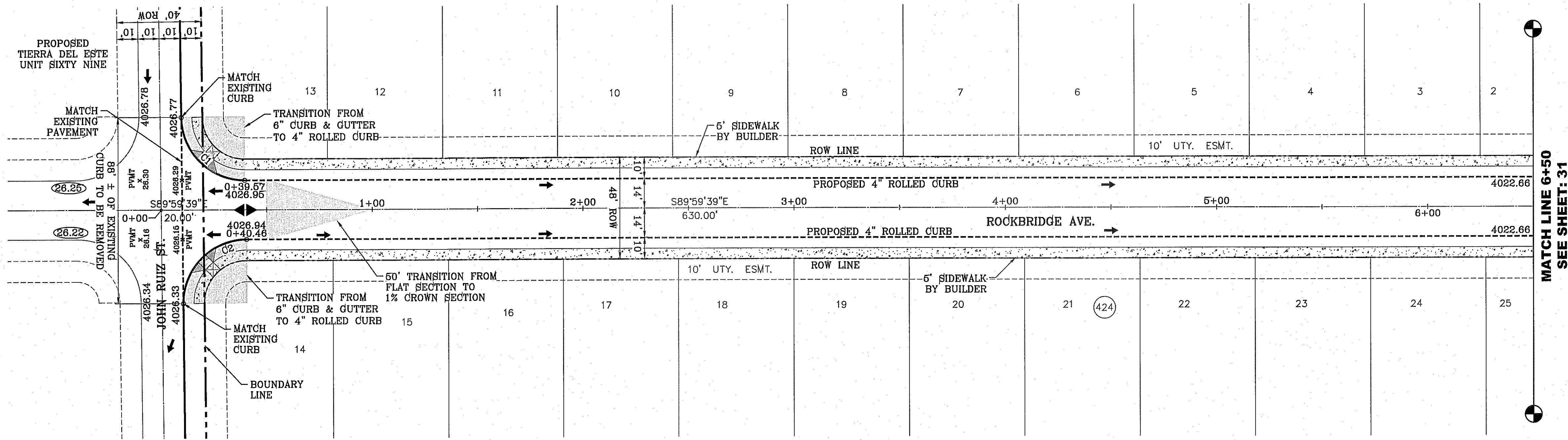
SHEET TITLE
**STREET
PLAN-PROFILE**
**ALTON OAKS
AVE.**
SHT 29 OF 70

FILE LOCATION: E:\Subdivisions\72\YIDE 72-PP07-ALTON OAKS PLOTTED ON Friday, August 08, 2014 11:09:36 AM BY ROGER ORTEGA
 S:\33333\72\YIDE 72-PP07-ALTON OAKS PLOTTED ON Friday, August 08, 2014 11:09:36 AM BY ROGER ORTEGA

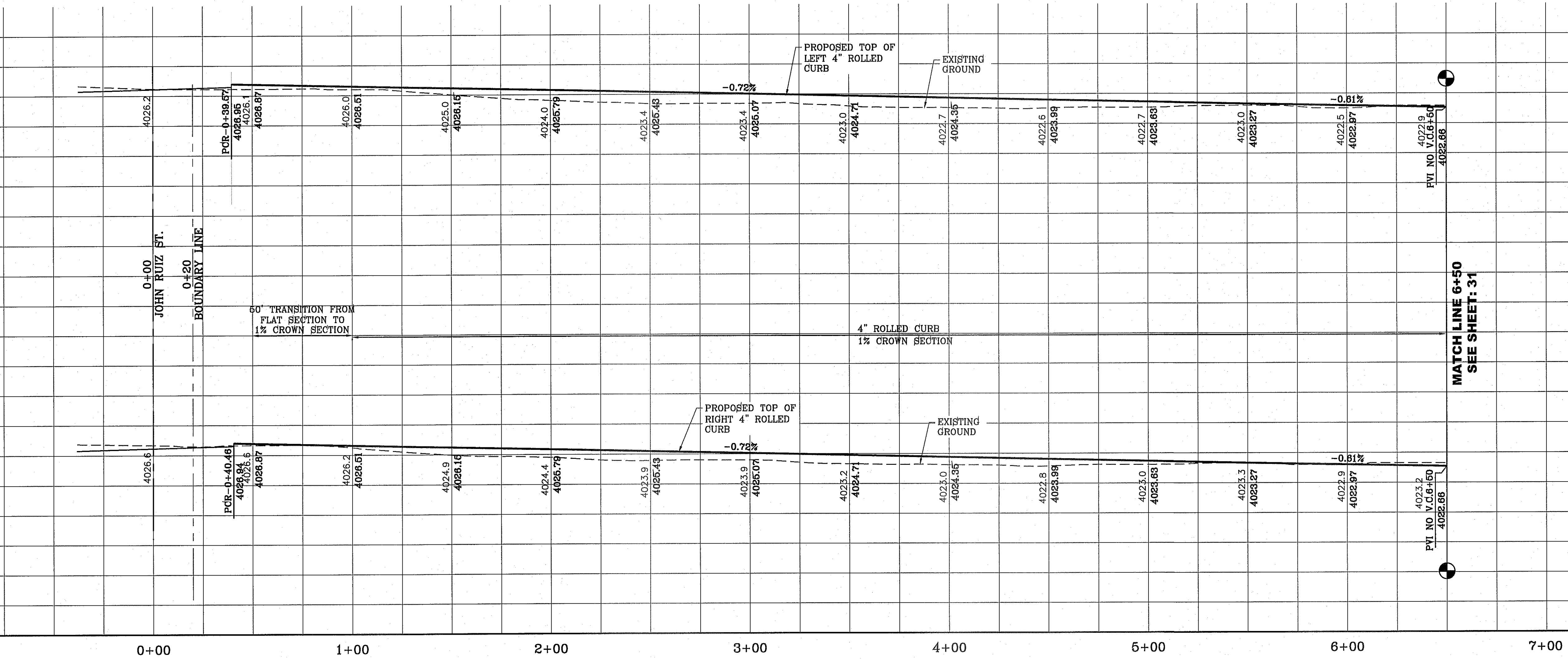
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CURVE TABLE						
CURVE	RADIUS	LENGTH	TANGENT	CHORD	BEARING	DELTA
C1	30.00'	46.81'	29.69'	42.21'	S45°17'23"E	89°24'33"
C2	30.00'	47.43'	30.31'	42.64'	S44°42'37"W	90°35'27"

SCALE: 1" = 30'



NOTE:
ALL WHEELCHAIR RAMPS BY DEVELOPER



BENCHMARK	
CITY MONUMENT AT THE CENTERLINE INTERSECTION OF RALPH SEITSINGER DR. AND GALECENO PL.	ELEVATION 4025.93 CITY DATUM

DATE	BY	REVISIONS
10-29-2013	R.O.	CITY REDLINES - MISC REVISION

PROJECT NAME
TIERRA DEL ESTE
UNIT SEVENTY TWO

BEING PORTION OF SECTIONS 37 AND 48, BLOCK 79,
TOWNSHIP 10D AND RANGE 10E, COUNTY OF GARRETT,
CITY OF EL PASO, EL PASO COUNTY, TEXAS
CONTAINING: 97.551± ACRES

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

DATE SEPT. 2013
DESIGN BY Y.C.
INITIATED BY R.O.
CHECKED BY Y.C.
JOB NO. 112-08

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

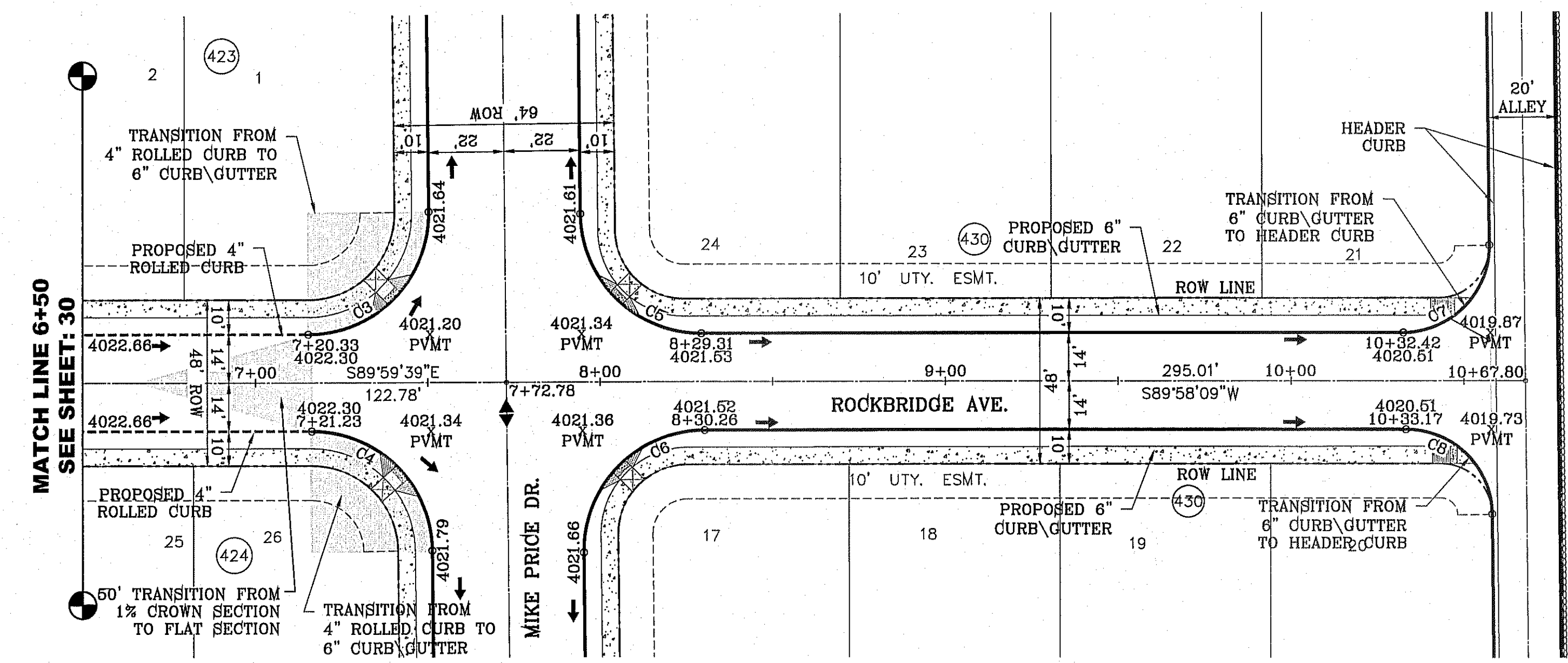
STREET TITLE
STREET
PLAN-PROFILE

ROCKBRIDGE AVE.

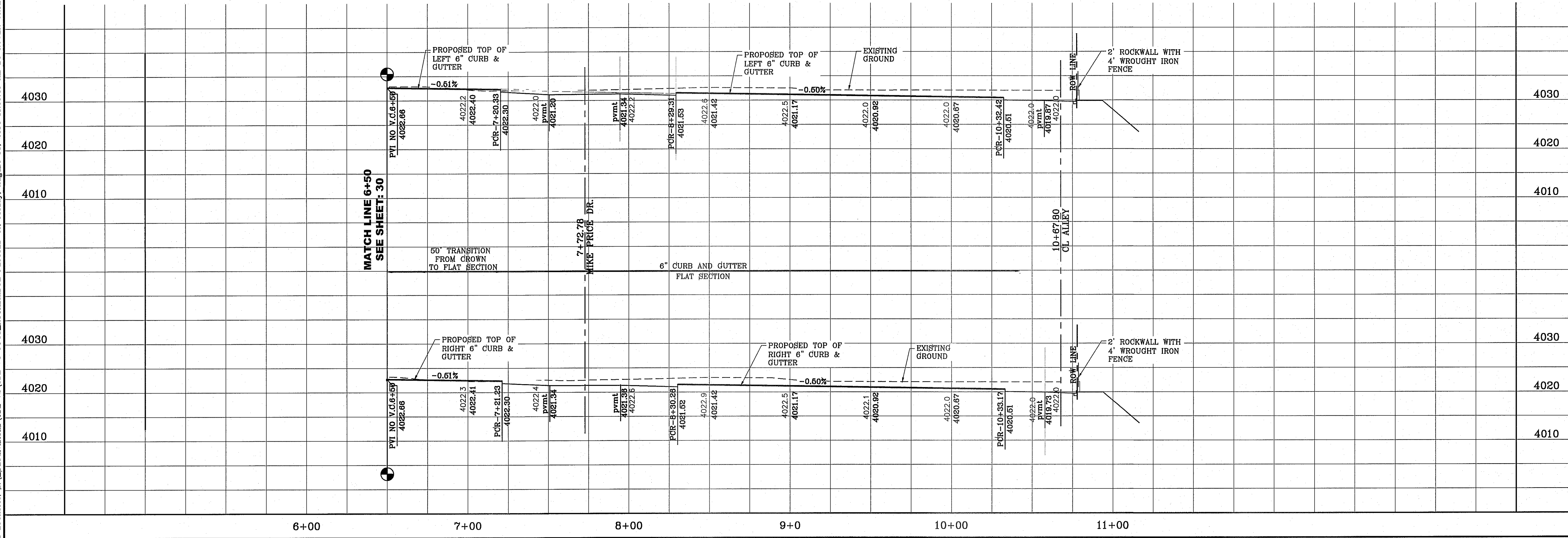
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 FILE LOCATION S:\Subdivisions\72\72-P06-ROCKBRIDGE.dwg 31 8/9/2014 11:09:49 AM

CURVE TABLE							
CURVE	RADIUS	LENGTH	TANGENT	CHORD	BEARING	DELTA	
C3	35.00'	55.34'	35.36'	49.75'	N44°42'36"E	90°35'30"	
C4	35.00'	54.62'	34.64'	49.24'	N45°17'24"W	89°24'30"	
C5	35.00'	54.64'	34.66'	49.26'	S45°18'30"E	89°26'42"	
C6	35.00'	55.32'	35.34'	49.74'	S44°41'30"W	90°33'18"	
C7	25.00'	39.51'	25.24'	35.53'	N44°41'30"E	90°33'18"	
C8	25.00'	39.03'	24.76'	35.18'	N45°18'30"W	89°26'42"	

SCALE: 1" = 30'

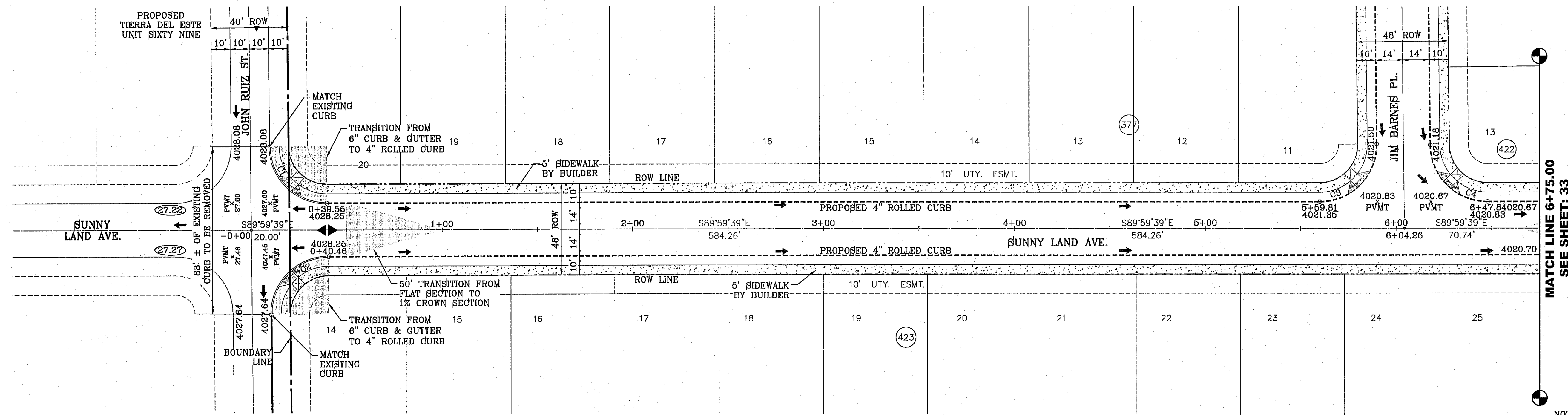
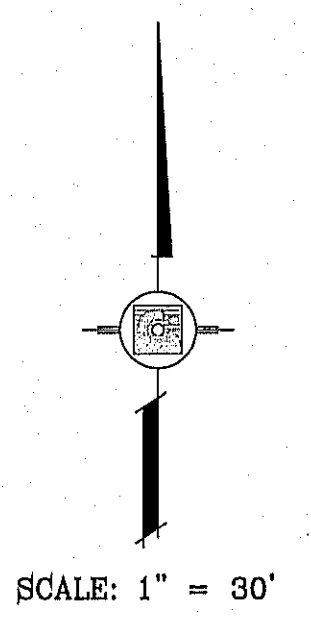


NOTE:
ALL WHEELCHAIR RAMPS BY DEVELOPER



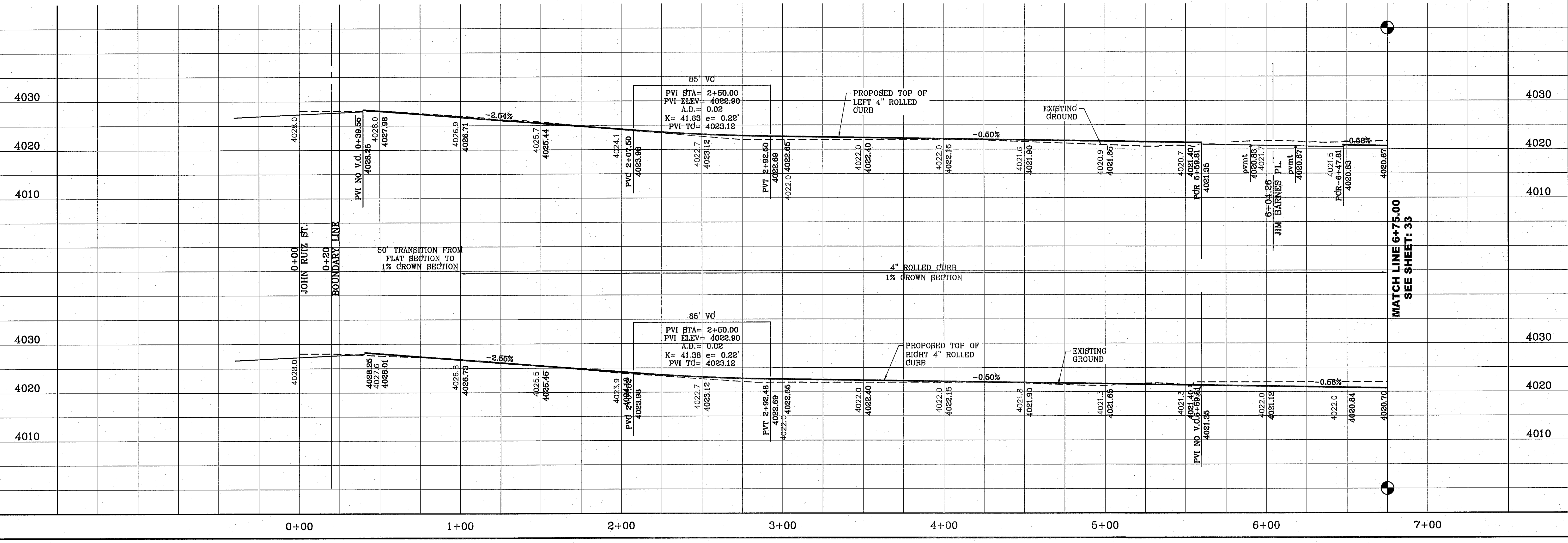
BENCHMARK CITY MONUMENT AT THE CENTERLINE INTERSECTION OF RALPH SEITZINGER DR. AND CALICENO PL. ELEVATION 4025.93 CITY DATUM	REVISIONS CITY REDLINES - MISC REVISION DATE 10-29-2013	PROJECT NAME TIERRA DEL ESTE UNIT SEVENTY TWO	BEING PORTION OF SECTIONS 37 AND 48, BLOCK 79, TRACT 2, EXAM AND C-100, COUNTY OF EL PASO, CITY OF EL PASO, EL PASO COUNTY, TEXAS CONTAINING: 97,551 ± ACRES	SCALE HORIZ: 1" = 30' VERT: 1" = 10' DATE: SEPT. 2013 DESIGN BY: Y.C. INITIATED BY: R.O. CHECKED BY: Y.C. JOB NO.: 112-08
		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 ROCKBRIDGE AVE.
SHT 31 OF 70				

CURVE TABLE						
CURVE	RADIUS	LENGTH	TANGENT	CHORD	BEARING	DELTA
C1	30.00'	46.81'	29.69'	42.21'	S45°17'23"E	89°24'33"
C2	30.00'	47.43'	30.31'	42.64'	S44°42'37"W	90°35'27"
C3	30.00'	47.43'	30.31'	42.64'	N44°42'37"E	90°35'27"
C4	30.00'	46.81'	29.69'	42.21'	S45°17'23"E	89°24'33"



NOTE:
ALL WHEELCHAIR RAMPS BY DEVELOPER

FILE LOCATION S:\Subdivisions\TDE 72\TDE 72-PP09_SUNNY LAND PLOTTED ON Friday, August 08, 2014 11:10:03 AM BY ROGER ORTEGA



PROJECT NAME
TIERRA DEL ESTE
UNIT SEVENTY TWO

BENCHMARK
CITY MONUMENT AT THE CENTERLINE INTERSECTION OF
TRACY SEIFINGER DR. AND CALLE NUEVA FL.
ELEVATION 4025.98 CITY DATUM

DATE
10-29-2013

REVISIONS
CITY REVISIONS - MISC REVISION
R.O.

BY
R.O.

DATE
10-29-2013

REVISIONS
CITY REVISIONS - MISC REVISION
R.O.

**BEING PORTION OF SECTIONS 37 AND 48, BLOCK 79,
TOWNSHIP 2, TEXAS AND PACIFIC RAILWAY CO. SURVEY,
CITY OF EL PASO, EL PASO COUNTY, TEXAS
CONTAINING: 97,501.1 ACRES**

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

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

DATE
SEPT. 2013

DESIGN BY
Y.C.

INITIATED BY
R.O.

CHECKED BY
Y.C.

JOB NO.
112-08

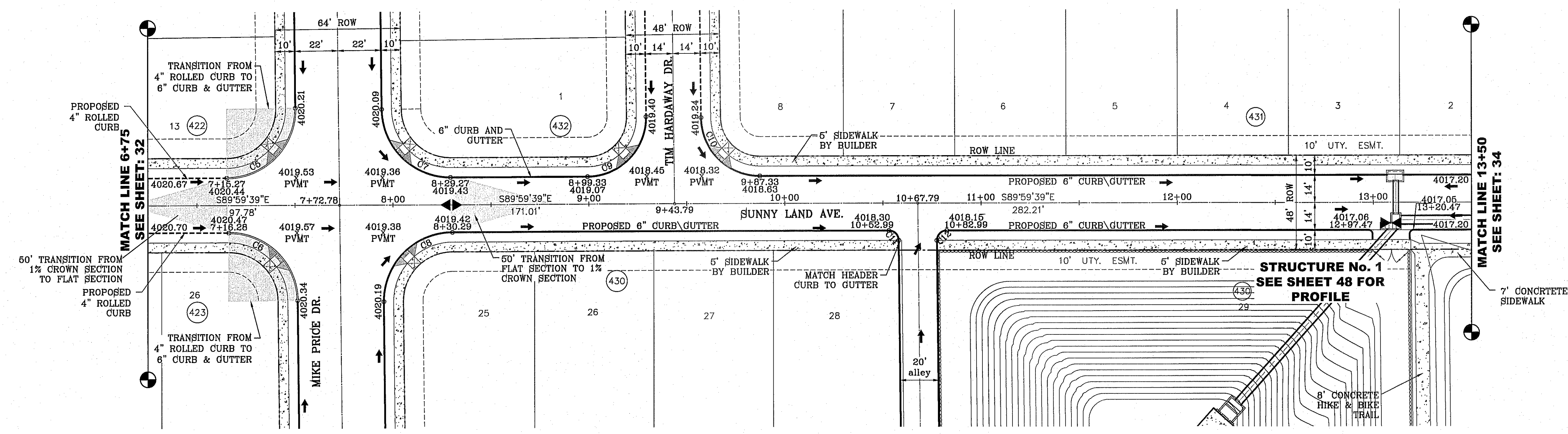
SHEET TITLE
STREET
PLAN-PROFILE

**SUNNY LAND
AVE**

SHT 32 OF 70

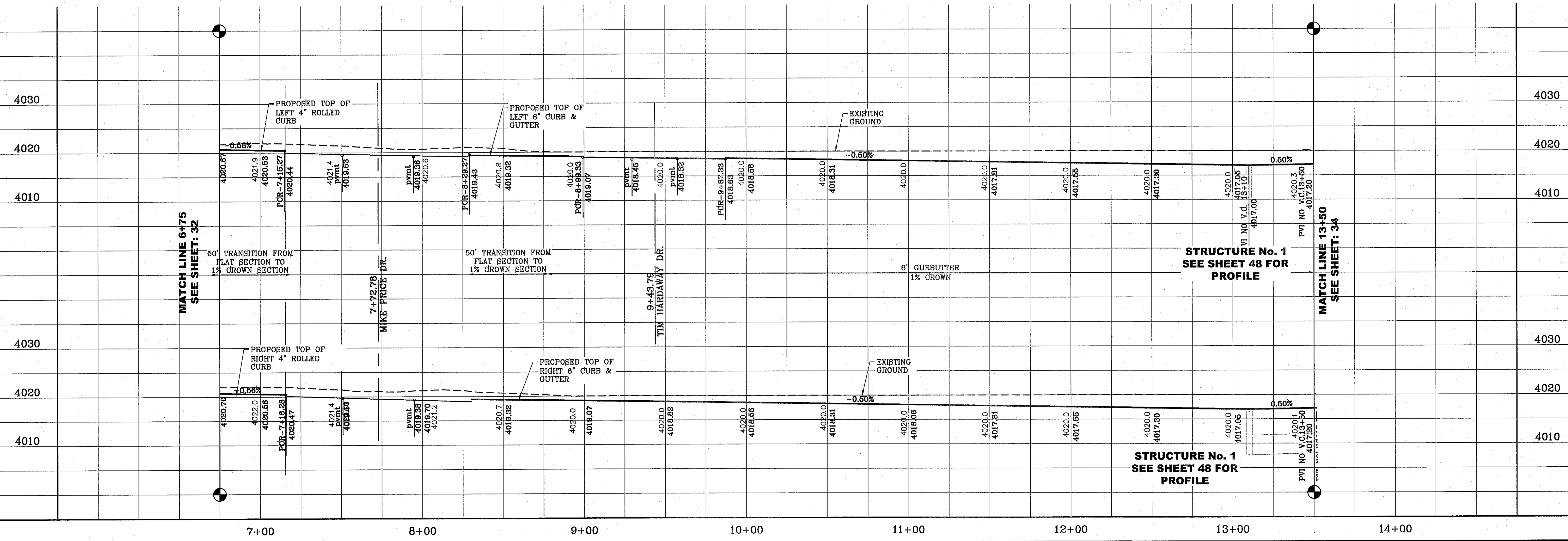
CURVE TABLE						
CURVE	RADIUS	LENGTH	TANGENT	CHORD	BEARING	DELTA
C5	35.00'	55.34'	35.36'	49.75'	N44°42'36"E	90°35'30"
C6	35.00'	54.62'	34.64'	49.24'	N45°17'24"W	89°24'30"
C7	35.00'	54.62'	34.64'	49.24'	S45°17'24"E	89°24'30"
C8	35.00'	55.34'	35.36'	49.75'	S44°42'36"W	90°35'30"
C9	30.00'	47.43'	30.31'	42.64'	N44°42'36"E	90°35'30"
C10	30.00'	46.81'	29.69'	42.21'	S45°17'24"E	89°24'30"

SCALE: 1" = 30'



NOTE: ALL WHEELCHAIR RAMPS BY DEVELOPER

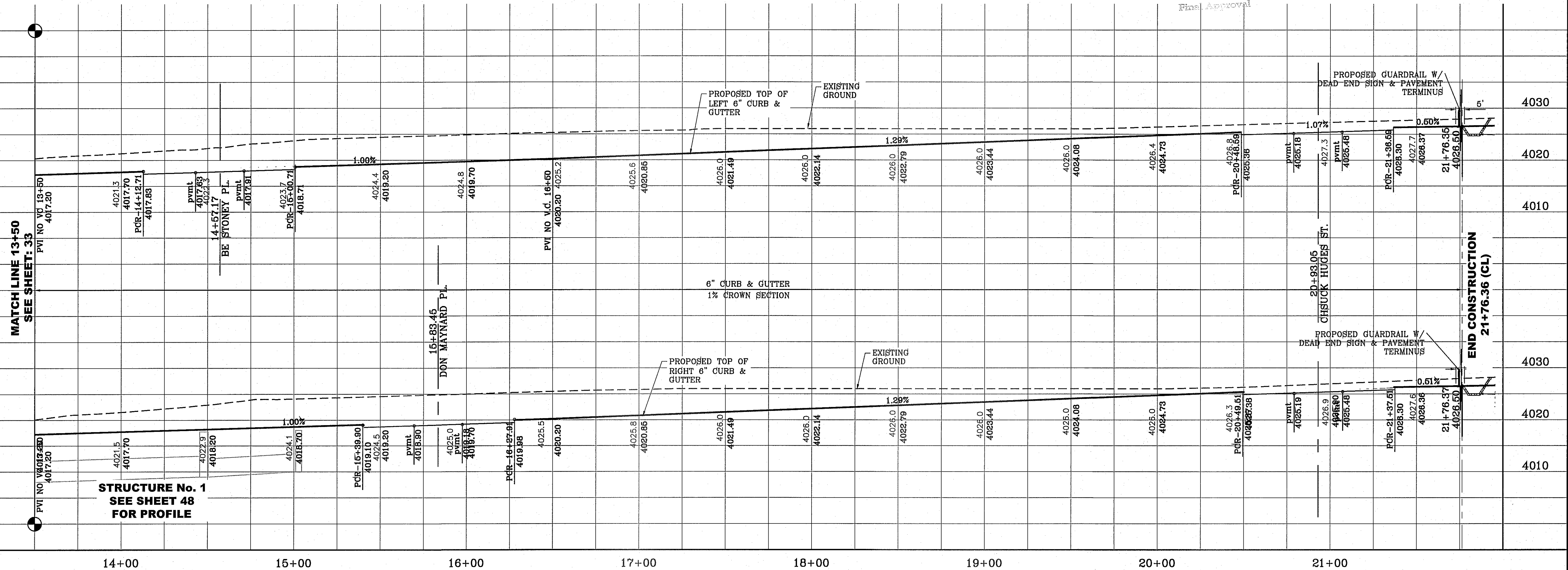
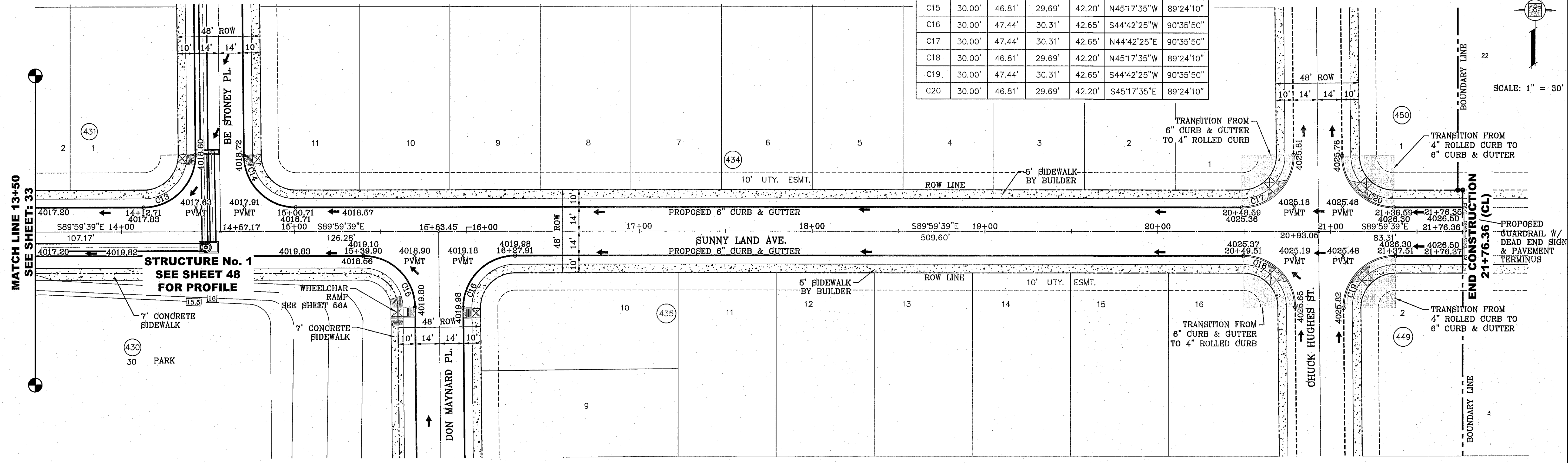
FILE LOCATION S:\Subdivisions\TDE 72\TDE 72-PP09_SUNNY LAND PLOTTED ON Friday, August 08, 2014 11:10:07 AM BY RODGER ORTEGA



BENCHMARK CITY MONUMENT AT THE CENTERLINE INTERSECTION OF RALPH SETTSINGER DR. AND CALICENO PL. ELEVATION 4025.95CITY DATUM	DATE 10-29-2013	REVISIONS CITY REDLINES - MISC REVISION	BY R.O.
	PROJECT NAME TERRA DEL ESTE UNIT SEVENTY TWO		
BEING PORTION OF SECTIONS 37 AND 48, BLOCK 79, TOWNSHIP 2, TEXAS AND PACIFIC RAILWAY CO. SURVEY, CITY OF EL PASO, TEXAS CONTAINING: .97,561 ACRES			
SCALE HORIZ: 1" = 30' VERT: 1" = 10' DATE: SEPT. 2013 DESIGN BY: Y.C. INITIATED BY: R.O. CHECKED BY: Y.C. JOB NO.: 112-08		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 SUNNY LAND AVE.
SHT 33 OF 70			

S:\Projects\10877057\10877057.dwg 7/25/14 10:45:00 AM 24.500000 10/11/2014 11:10:11 AM BY ROGER ORTEGA
 FILE LOCATION S:\Subdivisions\TDE 72-YDE 72-PP09_SUNNY LAND PLOTTED ON Friday, August 08, 2014 11:10:11 AM BY ROGER ORTEGA

CURVE TABLE						
CURVE	RADIUS	LENGTH	TANGENT	CHORD	BEARING	DELTA
C13	30.00'	47.43'	30.31'	42.64'	N44°42'36"E	90°35'30"
C14	30.00'	46.81'	29.69'	42.21'	S45°17'24"E	89°24'30"
C15	30.00'	46.81'	29.69'	42.20'	N45°17'35"W	89°24'10"
C16	30.00'	47.44'	30.31'	42.65'	S44°42'25"W	90°35'50"
C17	30.00'	47.44'	30.31'	42.65'	N44°42'25"E	90°35'50"
C18	30.00'	46.81'	29.69'	42.20'	N45°17'35"W	89°24'10"
C19	30.00'	47.44'	30.31'	42.65'	S44°42'25"W	90°35'50"
C20	30.00'	46.81'	29.69'	42.20'	S45°17'35"E	89°24'10"



**TERRA DEL ESTE
UNIT SEVENTY TWO**

BEING PORTION OF SECTIONS 37 AND 48, BLOCK 79,
TOWNSHIP 2, TEXAS AND PACIFIC HIGHWAY CO. SURVEYS,
CITY OF EL PASO, EL PASO COUNTY, TEXAS
CONTAINING .975011 ACRES

PROJECT NAME
**TERRA DEL ESTE
UNIT SEVENTY TWO**

CITY MONUMENT AT THE CENTERLINE INTERSECTION OF
REPRESENTING R.R. AND ALLEGED P.L.
ELEVATION 4025.93 CITY DATUM

SCALE: 1" = 30'

BENCHMARK

DATE 10-29-2013
BY CITY REVISIONS - MISC REVISION

R.O.

JOB NO.: 112-08

SCA L E
HORIZ: 1" = 30'
VERT: 1" = 10'

DATE: SEPT. 2013
DESIGN BY: Y.C.
INITIATED BY: R.O.
CHECKED BY: Y.C.

ENGINEER'S SEAL

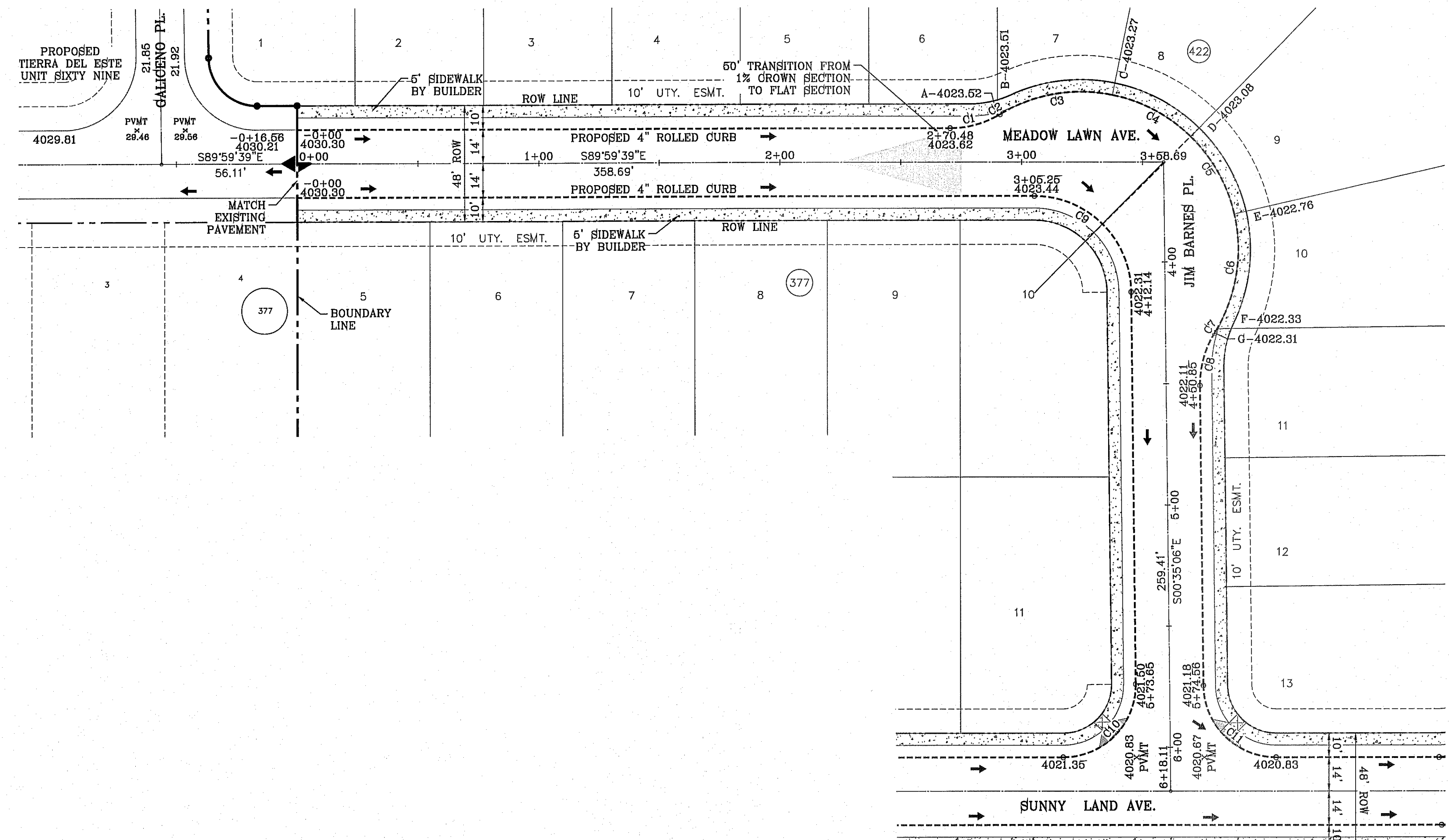
CONDE INC.
ENGINEERING / PLANNING
SURVEYING / GPS
6080 SURETY DR. STE 100
EL PASO, TEXAS 79905
PHONE: (915) 592-0283
FAX: (915) 592-0286

SHEET TITLE
**STREET
PLAN-PROFILE**

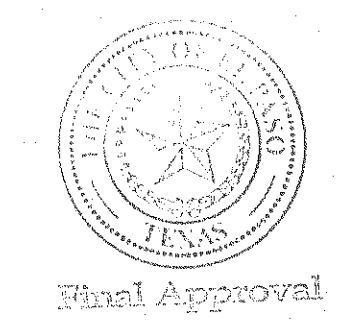
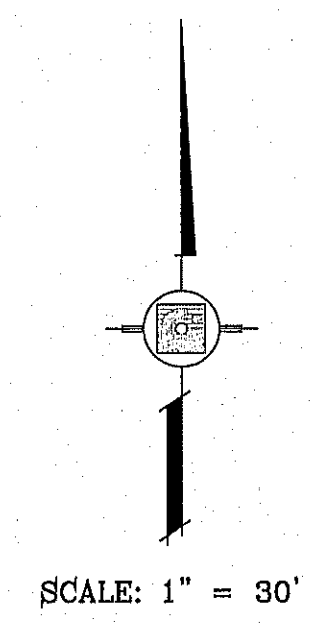
**SUNNY LAND
AVE.**

SHT 34 OF 70

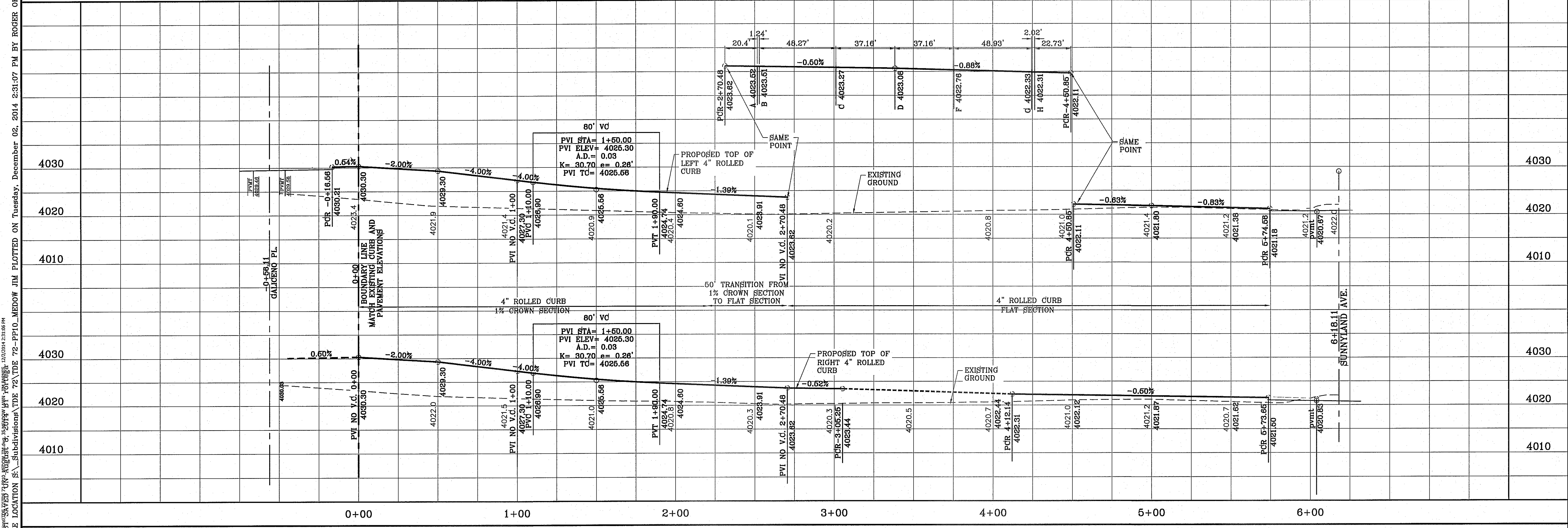
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 FILE LOCATION S:\Subdivisions\72\72\72-P10-MEADOW JIM PLOTTED ON Tuesday, December 02, 2014 2:31:07 PM BY ROGER ORTEGA



CURVE TABLE						
CURVE	RADIUS	LENGTH	TANGENT	CHORD	BEARING	DELTA
C1	40.00'	20.40'	10.43'	20.18'	N75°23'33"E	29°13'35"
C2	40.00'	1.24'	0.62'	1.24'	N59°53'28"E	1°46'34"
C3	65.00'	48.27'	25.31'	47.17'	S80°16'46"W	42°33'11"
C4	65.00'	37.16'	19.10'	36.66'	N62°03'59"W	32°45'18"
C5	65.00'	37.16'	19.10'	36.66'	N29°18'41"W	32°45'18"
C6	65.00'	48.93'	25.69'	47.78'	N8°37'51"E	43°07'46"
C7	65.00'	2.02'	1.01'	2.02'	N31°05'08"E	1°46'47"
C8	40.00'	22.73'	11.68'	22.43'	S15°41'42"W	32°33'37"
C9	40.00'	62.42'	39.59'	56.28'	N45°17'23"W	89°24'33"
C10	30.00'	47.43'	30.31'	42.64'	N44°42'37"E	90°35'27"
C11	30.00'	46.81'	29.69'	42.21'	S45°17'23"E	89°24'33"



NOTE: ALL WHEELCHAIR RAMPS BY DEVELOPER



PROJECT NAME: **TERRA DEL ESTE UNIT SEVENTY TWO**
 CITY MONUMENT AT THE CENTERLINE INTERSECTION OF RALPH SEITZINGER DR. AND CALICENO PL. ELEVATION 4025.83 CITY DATUM
 BENCHMARK:
 DATE: 10-29-2013
 REVISIONS:
 BY: CITY REVISIONS - MISC REVISION
 R.O.

BEING PORTION OF SECTIONS 37 AND 48, BLOCK 79, TOWNSHIP 2, TEXAS AND PACIFIC RAILWAY CO. SURVEYS, CITY OF EL PASO, TEXAS, AND EL PASO COUNTY, TEXAS, CONTAINING: 97.6512 ACRES

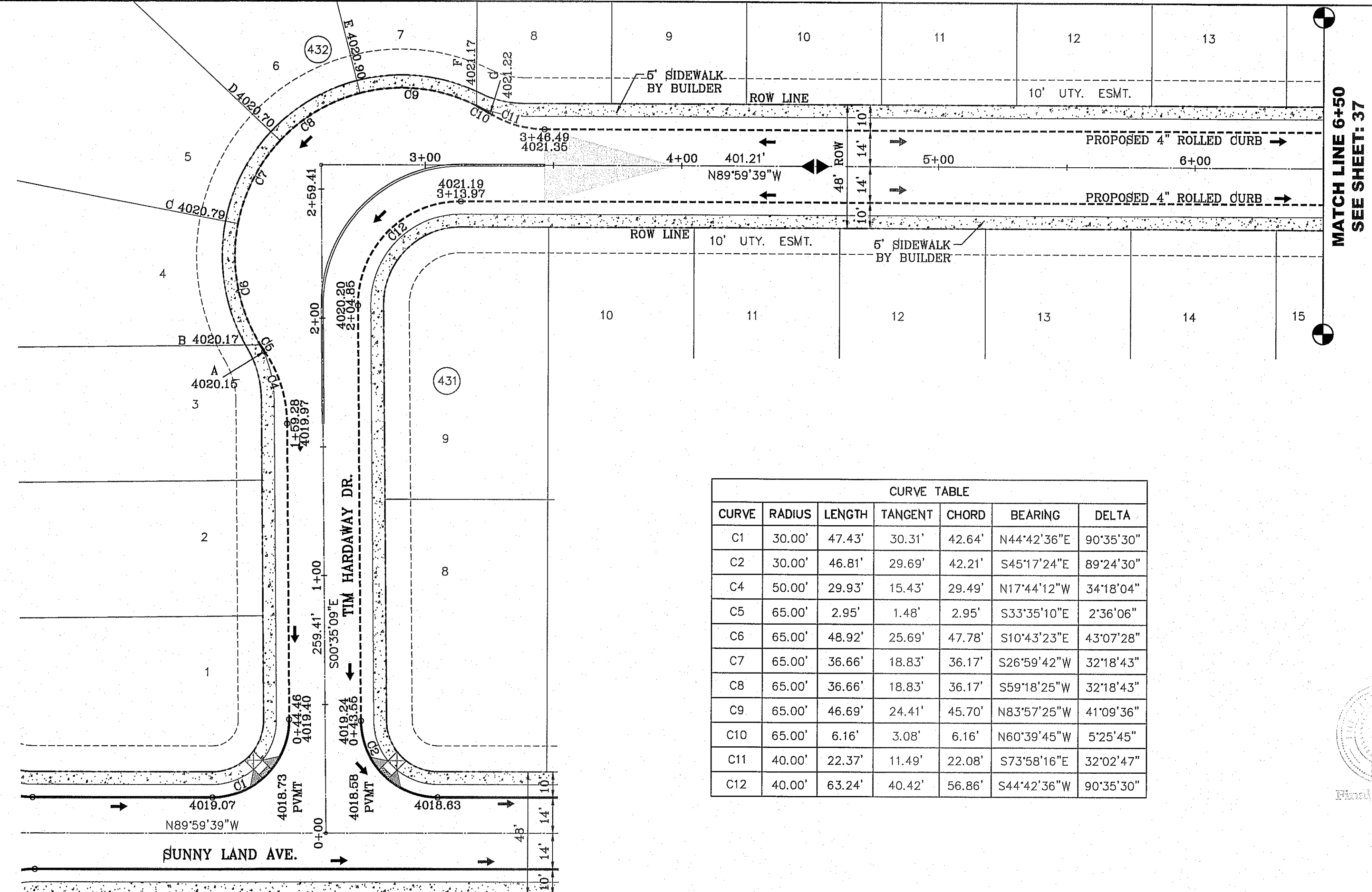
ENGINEER'S SEAL: [Seal of Roger Ortega, State of Texas, License No. 112-08]
 S C A L E:
 HORIZ: 1" = 30'
 VERT: 1" = 10'
 DATE: SEPT. 2013
 DESIGN BY: Y.C.
 INITIATED BY: R.O.
 CHECKED BY: Y.C.
 JOB NO.: 112-08

CONDE INC.
 ENGINEERING / PLANNING
 SURVEYING / GPS
 6080 SURETY DR. STE 100
 EL PASO, TEXAS 79905
 PHONE: (915) 592-0293
 FAX: (915) 592-0286

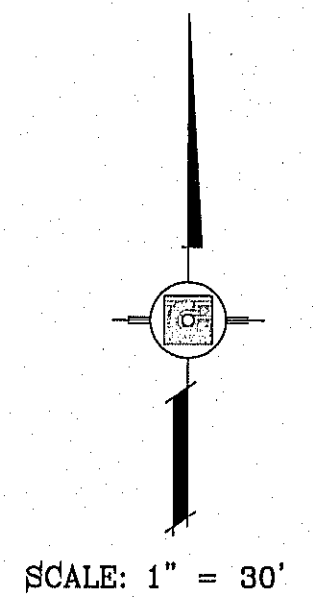
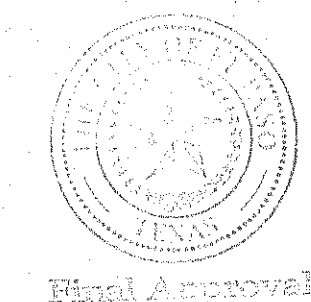
SHEET TITLE
STREET PLAN-PROFILE
MEADOW LAWN AVE.
JIM BARNES PL.

SHT 35 OF 70

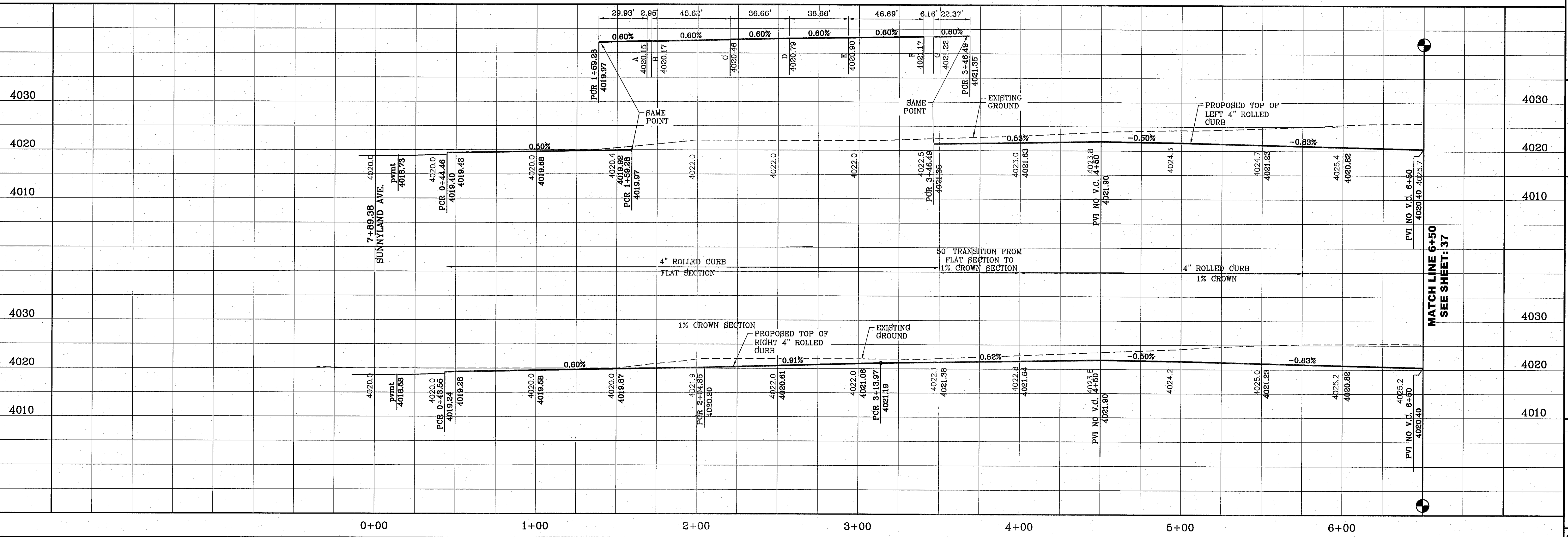
FILE LOCATION: S:_Subdivisions\172 YDE 72-PP11_TIM-HARDWAY PLOTTED ON Tuesday, December 02, 2014 2:31:21 PM BY RODER ORTEGA



CURVE TABLE						
CURVE	RADIUS	LENGTH	TANGENT	CHORD	BEARING	DELTA
C1	30.00'	47.43'	30.31'	42.64'	N44°42'36"E	90°35'30"
C2	30.00'	46.81'	29.69'	42.21'	S45°17'24"E	89°24'30"
C4	50.00'	29.93'	15.43'	29.49'	N17°44'12"W	34°18'04"
C5	65.00'	2.95'	1.48'	2.95'	S33°35'10"E	2°36'06"
C6	65.00'	48.92'	25.69'	47.78'	S10°43'23"E	43°07'28"
C7	65.00'	36.66'	18.83'	36.17'	S26°59'42"W	32°18'43"
C8	65.00'	36.66'	18.83'	36.17'	S59°18'25"W	32°18'43"
C9	65.00'	46.69'	24.41'	45.70'	N83°57'25"W	41°09'36"
C10	65.00'	6.16'	3.08'	6.16'	N60°39'45"W	5°25'45"
C11	40.00'	22.37'	11.49'	22.08'	S73°58'16"E	32°02'47"
C12	40.00'	63.24'	40.42'	56.86'	S44°42'36"W	90°35'30"



NOTE: ALL WHEELCHAIR RAMPS BY DEVELOPER



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

TIM HARDWAY DR.

**TIERRA DEL ESTE
 UNIT SEVENTY TWO**
 BEING PORTION OF SECTIONS 97 AND 48, BLOCK 79,
 TOWNSHIP 2, TEXAS AND PLACED RAILWAY CO. SURVEYS,
 CITY OF EL PASO, EL PASO COUNTY, TEXAS
 CONTAINING: 97.553 ± ACRES

PROJECT NAME
 TIERRA DEL ESTE UNIT SEVENTY TWO

BENCHMARK
 CITY MONUMENT AT THE CENTRELINE INTERSECTION OF
 RALPH SETSINGER DR. AND GALLENO PL.
 ELEVATION 4025.63 CITY DATUM

DATE
 10-29-2013

REVISIONS
 CITY REDLINES - MISC REVISION

BY
 R.O.

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

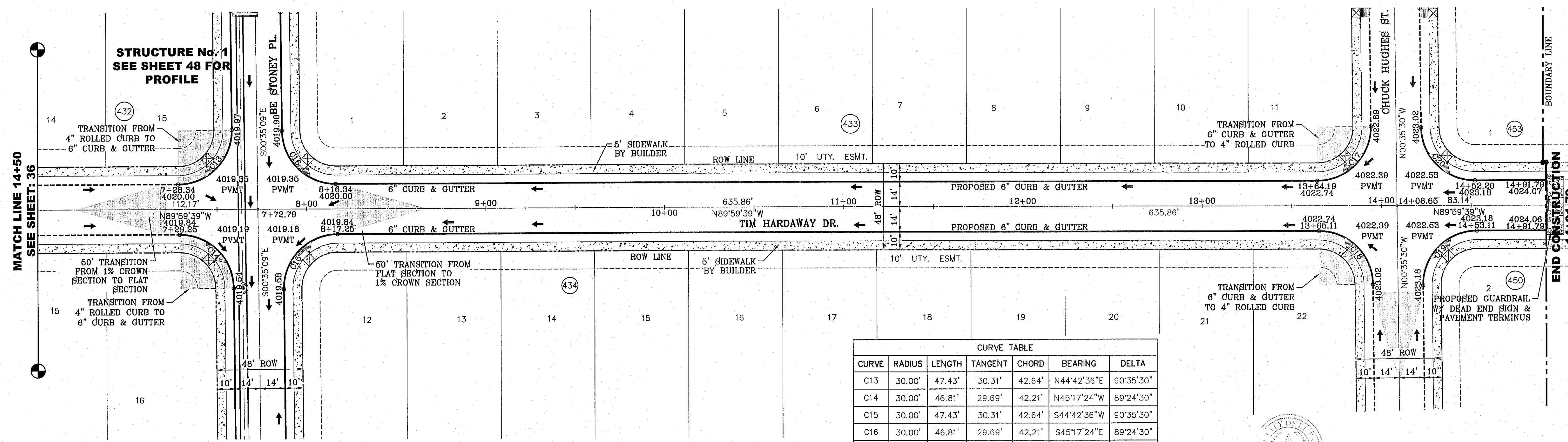
DATE: SEPT. 2013
DESIGN BY: Y.C.
INITIATED BY: R.O.
CHECKED BY: Y.C.
JOB NO.: 112-08

ENGINEER'S SEAL

SHEET TITLE
 STREET
 PLAN-PROFILE

SHT 36 OF 70

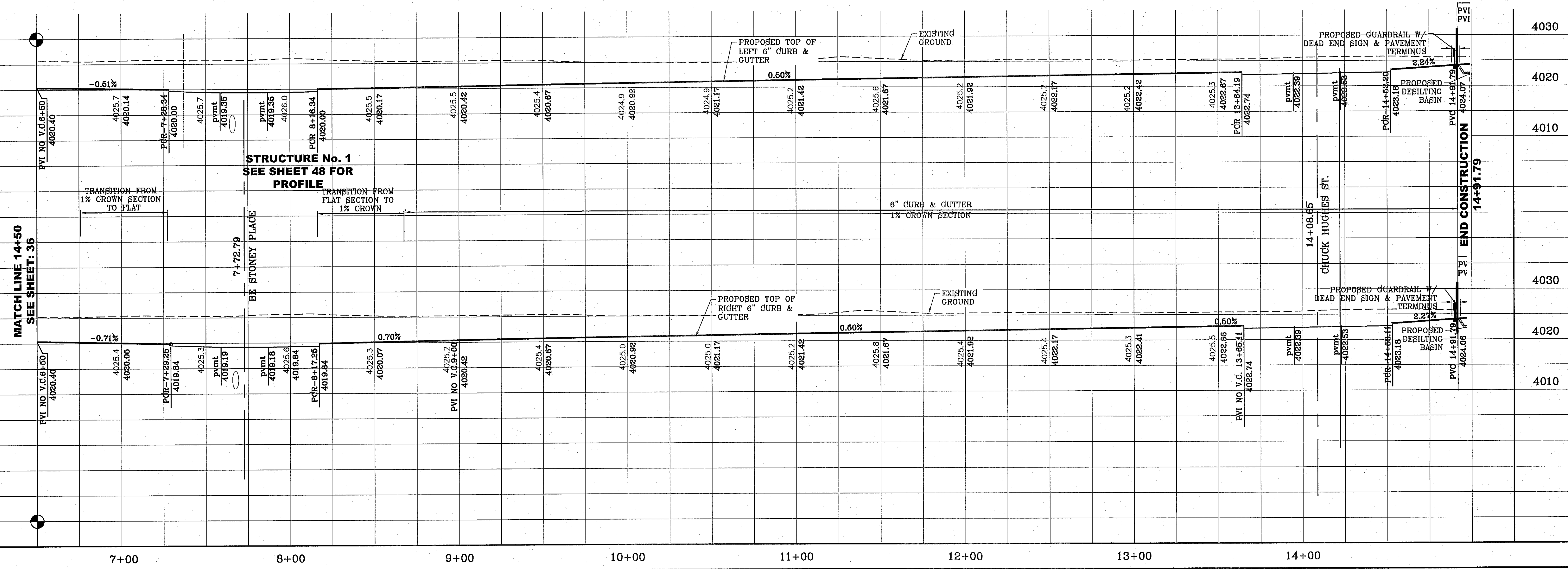
FILE LOCATION S:\Subdivisions\72\72-VDE 72-P11-TM-HARDWAY PLOTTED ON Friday, August 08, 2014 11:10:38 AM BY ROGER ORTEGA



CURVE TABLE						
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C14	30.00'	46.81'	29.69'	42.21'	N45°17'24"W	89°24'30"
C15	30.00'	47.43'	30.31'	42.64'	S44°42'36"W	90°35'30"
C16	30.00'	46.81'	29.69'	42.21'	S45°17'24"E	89°24'30"
C17	30.00'	47.44'	30.31'	42.65'	N44°42'25"E	90°35'50"
C18	30.00'	46.81'	29.69'	42.20'	N45°17'35"W	89°24'10"
C19	30.00'	47.44'	30.31'	42.65'	S44°42'25"W	90°35'50"
C20	30.00'	46.81'	29.69'	42.20'	S45°17'35"E	89°24'10"



NOTE:
ALL WHEELCHAIR RAMP BY DEVELOPER



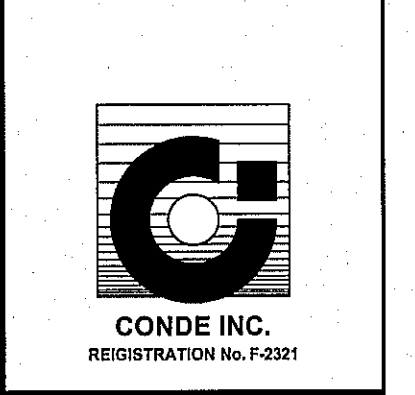
SCALE: 1" = 30'

BENCHMARK	
CITY MONUMENT AT THE CENTERLINE INTERSECTION OF RALPH SEUTINGER DR. AND CALICENO PL.	ELEVATION 4025.95 CITY DATUM
DATE	REVISIONS
10-09-2013	CITY REVISIONS - MISC REVISION
BY	R.O.

TIERRA DEL ESTE
UNIT SEVENTY TWO
 BEING PORTION OF SECTIONS 37 AND 48, BLOCK 79,
 TOWNSHIP 08 NORTH, RANGE 01 EAST, EL PASO COUNTY, TEXAS
 CITY OF EL PASO, EL PASO COUNTY, TEXAS
 CONTAINING: 97.551± ACRES

PROJECT NAME
TIERRA DEL ESTE
UNIT SEVENTY TWO
 SCALE
 HORIZ: 1" = 30'
 VERT: 1" = 10'
 DATE: SEPT. 2013
 DESIGN BY: Y.C.
 INITIATED BY: R.O.
 CHECKED BY: Y.C.
 JOB NO.: 112-08

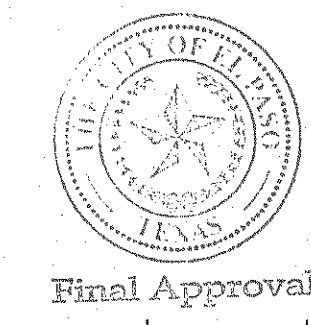
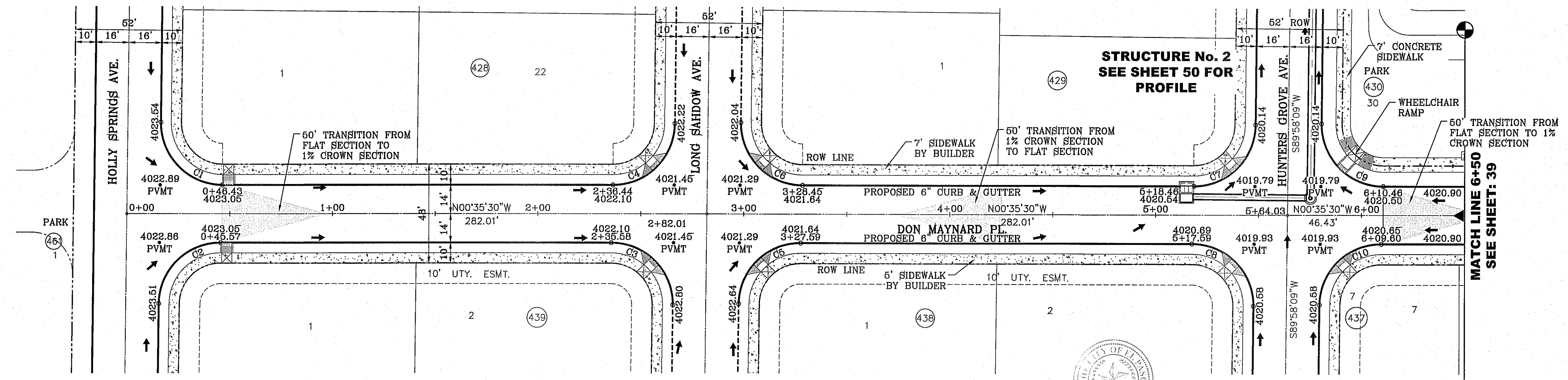
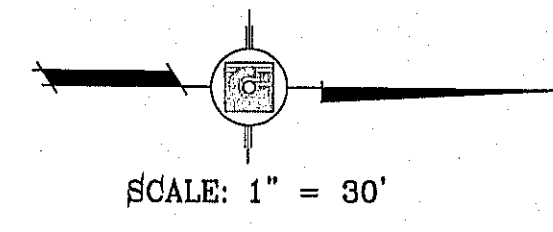
CONDE INC.
 ENGINEERING / PLANNING
 SURVEYING / GPS
 6080 SURETY DR. STE 100
 EL PASO, TEXAS 79905
 PHONE: (915) 592-0283
 FAX: (915) 592-0286



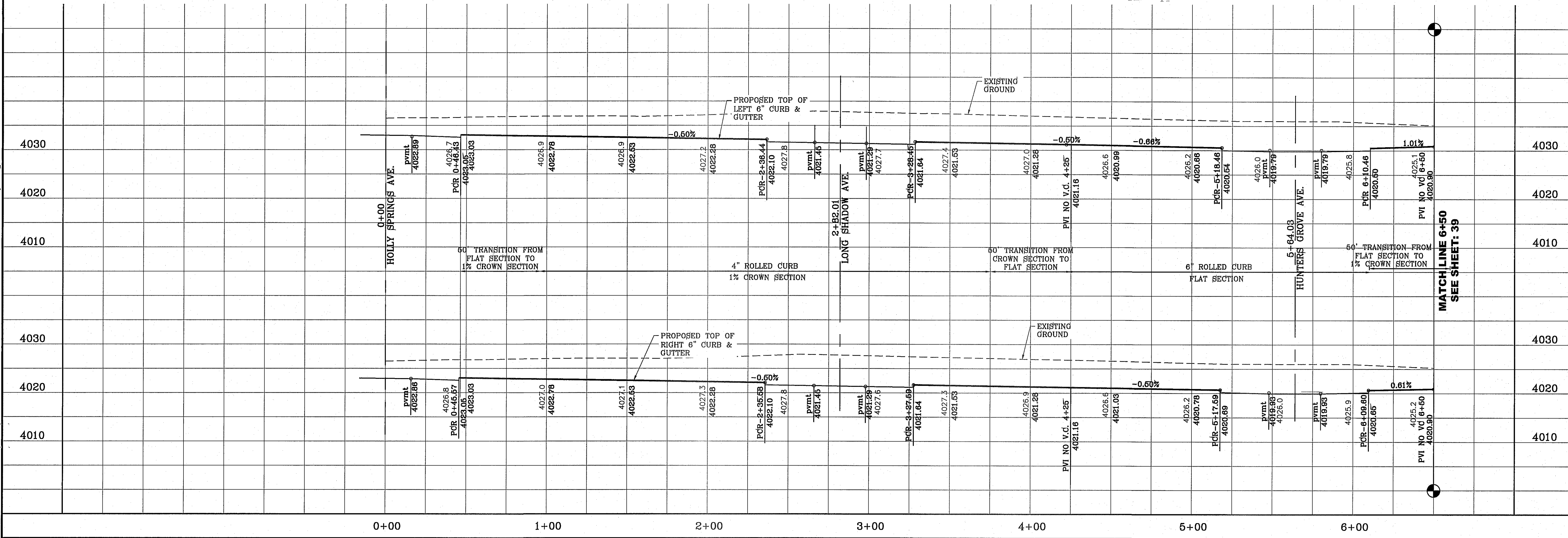
SHEET TITLE
STREET
PLAN-PROFILE
TIM
HARDWAY
DR.
 SHT 37 OF 70

S:\Subdivisions\72 YDE 72-PF16-Don Maynard Plotted on Friday, August 08, 2014 11:10:49 AM BY ROGER ORTEGA
FILE LOCATION S:\Subdivisions\72 YDE 72-PF16-Don Maynard Plotted on Friday, August 08, 2014 11:10:49 AM

CURVE TABLE						
CURVE	RADIUS	LENGTH	TANGENT	CHORD	BEARING	DELTA
C1	30.00'	47.42'	30.30'	42.63'	N44°41'20"E	90°33'38"
C2	30.00'	46.83'	29.71'	42.22'	S45°18'40"E	89°26'22"
C3	30.00'	47.42'	30.30'	42.63'	S44°41'20"W	90°33'38"
C4	30.00'	46.83'	29.71'	42.22'	N45°18'40"W	89°26'22"
C5	30.00'	46.83'	29.71'	42.22'	S45°18'40"E	89°26'22"
C6	30.00'	47.42'	30.30'	42.63'	N44°41'20"E	90°33'38"
C7	30.00'	46.83'	29.71'	42.22'	N45°18'40"W	89°26'22"
C8	30.00'	47.42'	30.30'	42.63'	S44°41'20"W	90°33'38"
C9	30.00'	47.42'	30.30'	42.63'	N44°41'20"E	90°33'38"
C10	30.00'	46.83'	29.71'	42.22'	S45°18'40"E	89°26'22"



NOTE: ALL WHEELCHAIR RAMPS BY DEVELOPER

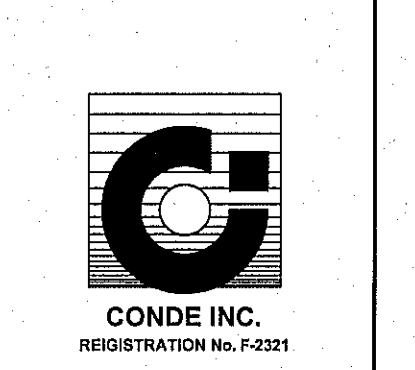


BENCHMARK	CITY MONUMENT AT THE CENTERLINE INTERSECTION OF RALPH SEARSINGER DR. AND CALLENSA PL. ELEVATION 4025.93	REVISIONS	BY
	DATE	CITY REVISIONS - MISC REVISION	R.O.
PROJECT NAME		TERRA DELESTE UNIT SEVENTY TWO	
DESCRIPTION		BEING PORTION OF SECTIONS 37 AND 46, BLOCK 78, TOWNSHIP 22N, RANGE 10E, COUNTY OF EL PASO, TEXAS. CITY OF EL PASO, TEXAS. CONTAINING: 97,650 ± ACRES	

SCALE
HORIZ: 1" = 30'
VERT: 1" = 10'
DATE: SEPT. 2013
DESIGN BY: Y.C.
INITIATED BY: R.O.
CHECKED BY: Y.C.
JOB NO.: 112-08

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

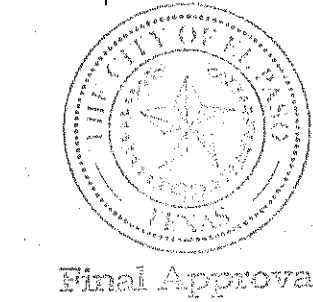
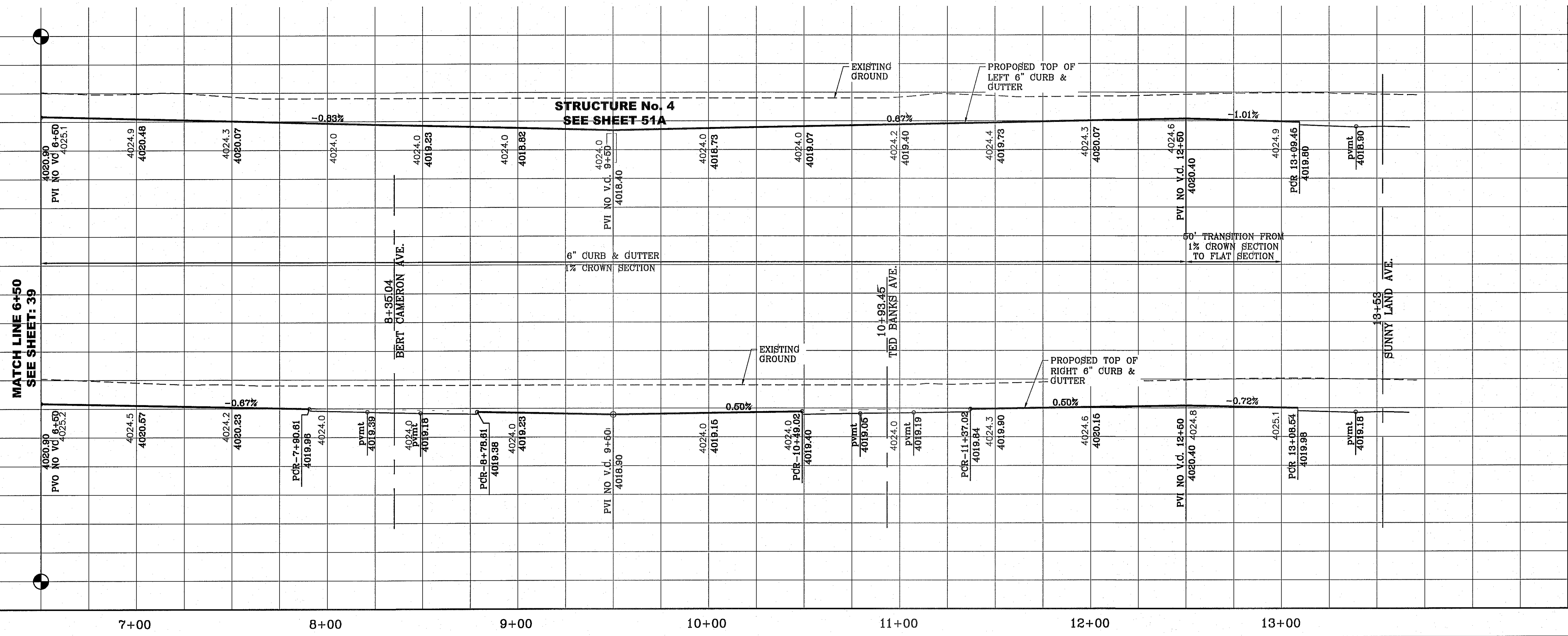
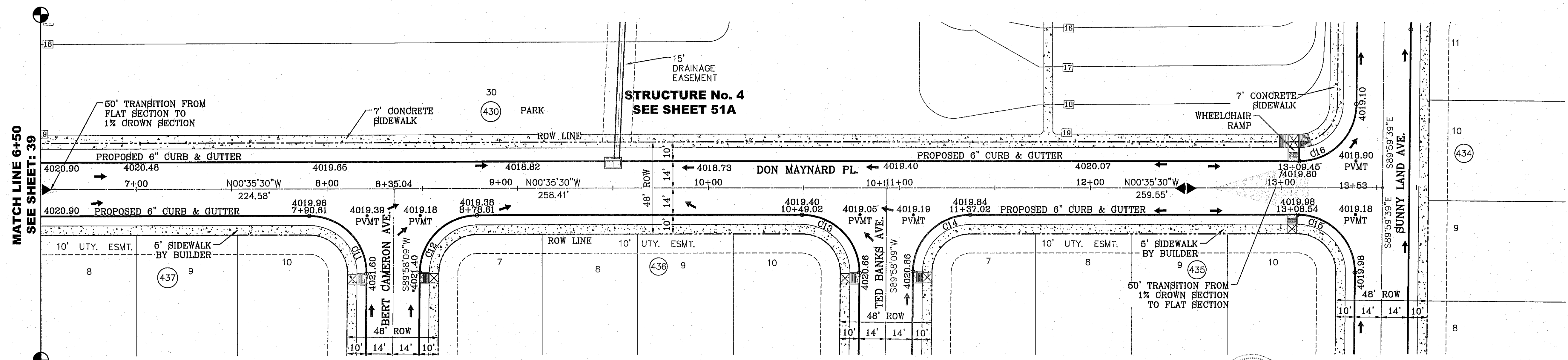
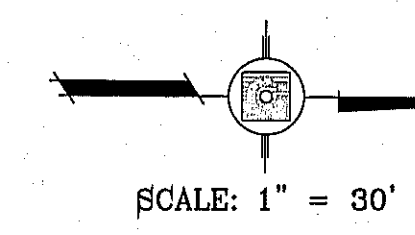


SHEET TITLE
STREET
PLAN - PROFILE

DON MAYNARD PL.

S:\Subdivisions\727DE 72P16.DON MAYNARD PLOTTED ON Friday, August 08, 2014 11:10:52 AM BY ROGER ORTEGA
 FILE LOCATION S:\Subdivisions\727DE 72P16.DON MAYNARD PLOTTED ON Friday, August 08, 2014 11:10:52 AM

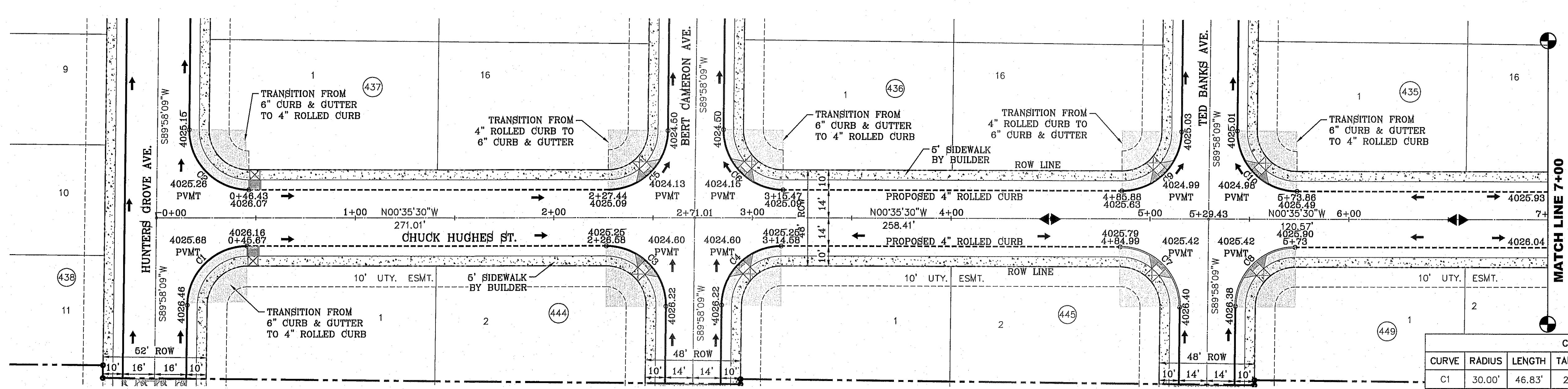
CURVE TABLE						
CURVE	RADIUS	LENGTH	TANGENT	CHORD	BEARING	DELTA
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C12	30.00'	46.83'	29.71'	42.22'	S45°18'40"E	89°26'22"
C13	30.00'	47.42'	30.30'	42.63'	S44°41'20"W	90°33'38"
C14	30.00'	46.83'	29.71'	42.22'	S45°18'40"E	89°26'22"
C15	30.00'	47.44'	30.31'	42.65'	S44°42'25"W	90°35'50"
C16	30.00'	46.81'	29.69'	42.20'	N45°17'35"W	89°24'10"



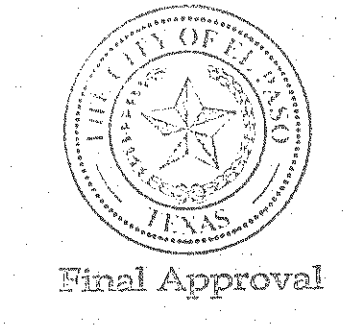
NOTE:
ALL WHEELCHAIR RAMPS BY DEVELOPER

PROJECT NAME TERRA DEL ESTE UNIT SEVENTY TWO	BENCHMARK CITY MONUMENT AT THE CENTERLINE INTERSECTION OF RALPH SEITZINGER DR. AND CALICENO PL. ELEVATION 4025.93 CITY DATUM	REVISIONS DATE 10-29-2013 BY CITY REVISIONS - MISC REVISION R.O.	S C A L E HORIZ: 1" = 30' VERT: 1" = 10' DATE: SEPT. 2013 DESIGN BY: Y.C. INITIATED BY: R.O. CHECKED BY: Y.C. JOB NO.: 112-08
BEING PORTION OF SECTIONS 37 AND 48, BLOCK 79, TOWNSHIP 2, RANGE 10, COUNTY OF EL PASO, TEXAS CITY OF EL PASO, EL PASO COUNTY, TEXAS CONTAINING: 97,661 ± ACRES			
CONDE INC. ENGINEERING / PLANNING SURVEYING / GPS 6090 SURETY DR. STE 100 EL PASO, TEXAS 79905 PHONE: (915) 592-0283 FAX: (915) 592-0286			
SHEET TITLE STREET PLAN-PROFILE			
DON MAYNARD PL.			
SHET 39 OF 70			

FILE LOCATION: \\s:\projects\2014\72-YDE-72-PP17-CHUCK HUGHES PLOTTED ON Friday, August 08, 2014 11:11:06 AM BY RODGER ORTEGA

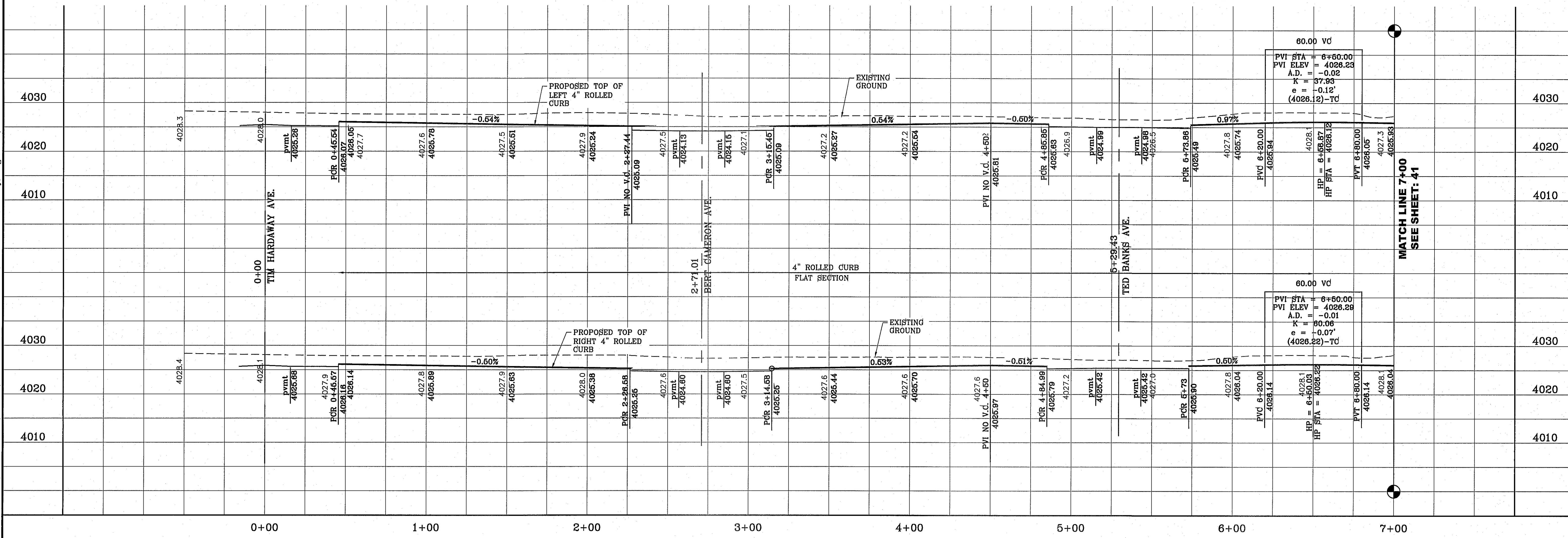


SCALE: 1" = 30'



CURVE TABLE						
CURVE	RADIUS	LENGTH	TANGENT	CHORD	BEARING	DELTA
C1	30.00'	46.83'	29.71'	42.22'	S45°18'40"E	89°26'22"
C2	30.00'	47.42'	30.30'	42.63'	N44°41'20"E	90°33'38"
C3	30.00'	47.42'	30.30'	42.63'	S44°41'20"W	90°33'38"
C4	30.00'	46.83'	29.71'	42.22'	S45°18'40"E	89°26'22"
C5	30.00'	46.83'	29.71'	42.22'	N45°18'40"W	89°26'22"
C6	30.00'	47.42'	30.30'	42.63'	N44°41'20"E	90°33'38"
C7	30.00'	47.42'	30.30'	42.63'	S44°41'20"W	90°33'38"
C8	30.00'	46.83'	29.71'	42.22'	S45°18'40"E	89°26'22"
C9	30.00'	46.83'	29.71'	42.22'	N45°18'40"W	89°26'22"
C10	30.00'	47.42'	30.30'	42.63'	N44°41'20"E	90°33'38"

NOTE: ALL WHEELCHAIR RAMPS BY DEVELOPER



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

CHUCK HUGHES ST.

SHT 40 OF 70

TERRA DEL ESTE UNIT SEVENTY TWO
BEING PORTION OF SECTIONS 37 AND 48, BLOCK 79, NO. 100, TRACT 100, FROM THE CHUCK HUGHES SURVEY, CITY OF EL PASO, COUNTY OF EL PASO, TEXAS, CONTAINING: 97,850 ± ACRES

PROJECT NAME: TERRA DEL ESTE UNIT SEVENTY TWO

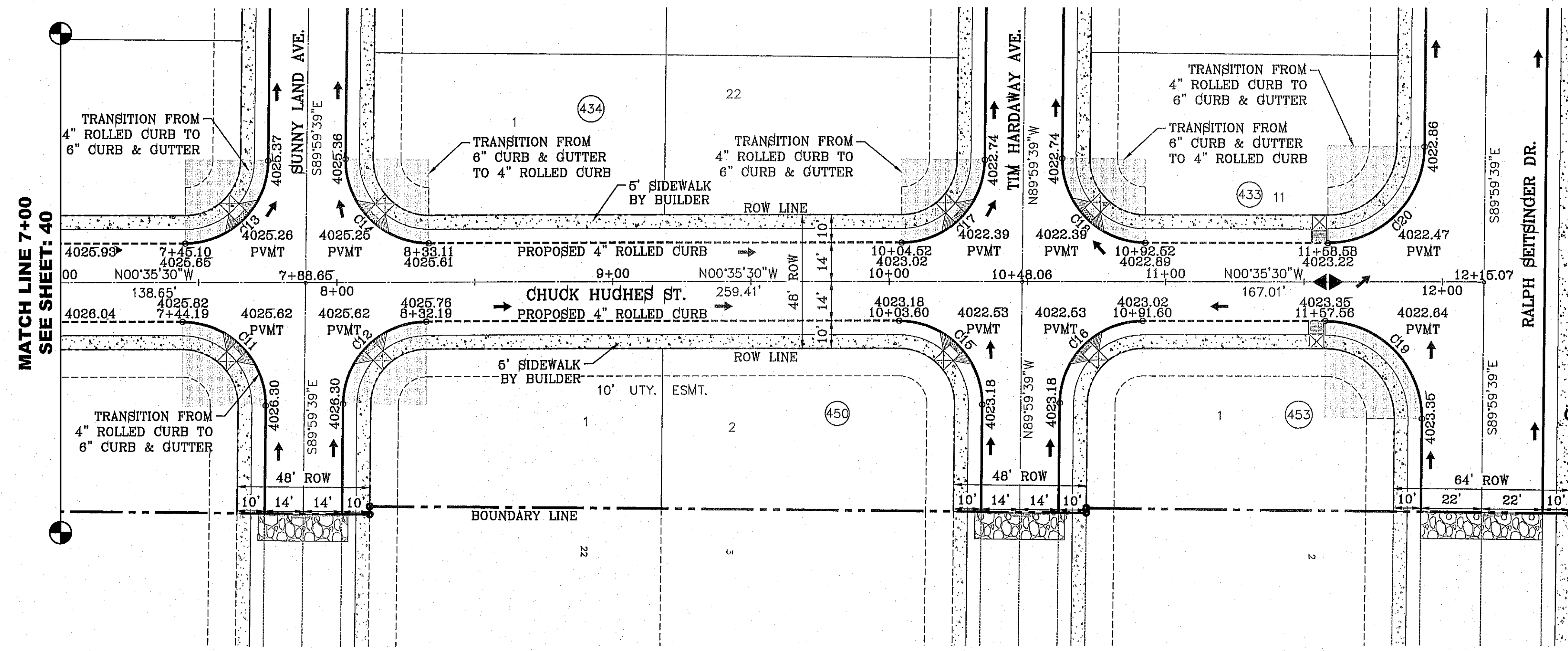
BENCHMARK: CITY MONUMENT AT THE CENTERLINE INTERSECTION OF RALPH SEVENSINGER DR. AND CALLETA P.L. ELEVATION 4026.93 CITY DATUM

REVISIONS:
DATE: 10-29-2013
BY: CITY REDLINES - MISC REVISION
R.O.

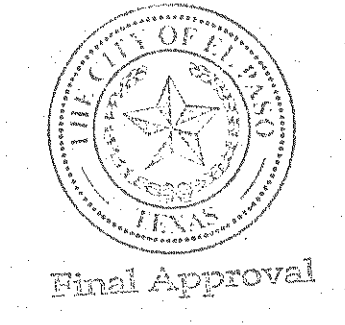
SCALE: HORIZ: 1" = 30', VERT: 1" = 10'

DATE: SEPT. 2013
DESIGN BY: Y.C.
INITIATED BY: R.O.
CHECKED BY: Y.C.
JOB NO.: 112-08

S:\projects\2014\72-P17-CHUCK HUGHES\72-P17-CHUCK HUGHES.PLOT on Friday, August 08, 2014 11:11:09 AM BY ROGER ORTEGA
 FILE LOCATION S:\Subdivisions\72-P17-CHUCK HUGHES\72-P17-CHUCK HUGHES.PLOT on Friday, August 08, 2014 11:11:09 AM



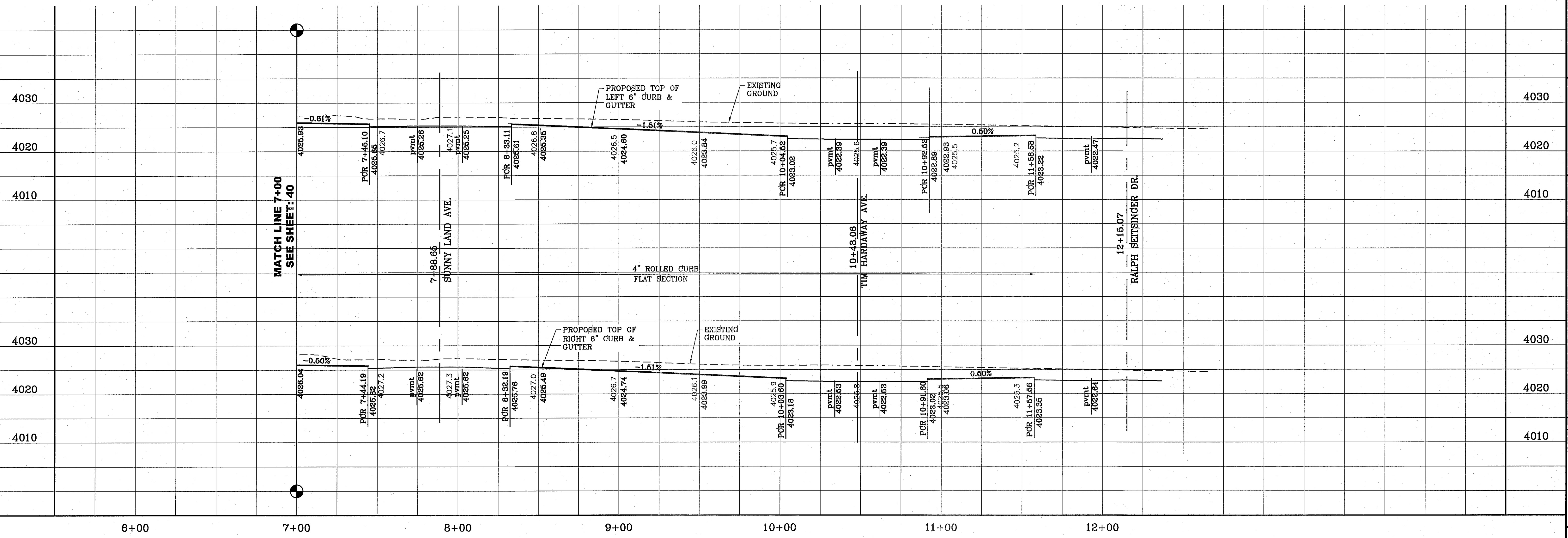
SECTION 37, BLOCK 79,
TOWNSHIP 2 TEXAS &
PACIFIC RAILWAY
SURVEYS
DOC. No. 20040091659



SCALE: 1" = 30'

CURVE TABLE						
CURVE	RADIUS	LENGTH	TANGENT	CHORD	BEARING	DELTA
C11	30.00'	47.44'	30.31'	42.65'	S44°42'25"W	90°35'50"
C12	30.00'	46.81'	29.69'	42.20'	S45°17'35"E	89°24'10"
C13	30.00'	46.81'	29.69'	42.20'	N45°17'35"W	89°24'10"
C14	30.00'	47.44'	30.31'	42.65'	N44°42'25"E	90°35'50"
C15	30.00'	47.44'	30.31'	42.65'	S44°42'25"W	90°35'50"
C16	30.00'	46.81'	29.69'	42.20'	S45°17'35"E	89°24'10"
C17	30.00'	46.81'	29.69'	42.20'	N45°17'35"W	89°24'10"
C18	30.00'	47.44'	30.31'	42.65'	N44°42'25"E	90°35'50"
C19	35.00'	55.34'	35.37'	49.75'	S44°42'25"W	90°35'50"
C20	35.00'	54.61'	34.64'	49.24'	N45°17'35"W	89°24'10"

NOTE:
ALL WHEELCHAIR RAMPS BY DEVELOPER



BENCHMARK
 CITY MONUMENT AT THE CENTERLINE INTERSECTION OF
 RALPH SEITSINGER DR. AND GALICENO PL.
 ELEVATION 4025.93 CITY DATUM

DATE	10-29-2013
BY	R.O.
REVISIONS	CITY REVISIONS - MISC REVISION

PROJECT NAME
TERRA DELESTE
UNIT SEVENTY TWO
 BRING PORTION OF SECTIONS 37 AND 48, BLOCK 79,
 PACIFIC RAILWAY SURVEYS,
 TOWNSHIP 2 TEXAS & PACIFIC RAILWAY SURVEYS,
 CITY OF EL PASO, EL PASO COUNTY, TEXAS
 CONTAINING: 97.651 ± ACRES

S C A L E
 HORIZ: 1" = 30'
 VERT: 1" = 10'
 DATE: SEPT. 2013
 DESIGN BY: Y.C.
 INITIATED BY: R.O.
 CHECKED BY: Y.C.
 JOB NO.: 112-08

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

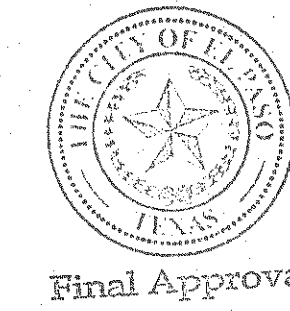
CONDE INC.
 REGISTRATION NO. F-2321

SHEET TITLE
CHUCK HUGHES ST.
 STREET
 PLAN - PROFILE

SHT 41 OF 70

CURVE TABLE						
CURVE	RADIUS	LENGTH	TANGENT	CHORD	BEARING	DELTA
C1	30.00'	46.83'	29.71'	42.22'	S45°18'40"E	89°26'22"
C2	30.00'	47.42'	30.30'	42.63'	S44°41'20"W	90°33'38"
C3	30.00'	47.42'	30.30'	42.63'	N44°41'20"E	90°33'38"
C4	30.00'	46.83'	29.71'	42.22'	S45°18'40"E	89°26'22"
C5	30.00'	47.42'	30.30'	42.63'	S44°41'20"W	90°33'38"
C6	30.00'	46.83'	29.71'	42.22'	N45°18'40"W	89°26'22"

SCALE: 1" = 30'



BENCHMARK	CITY MONUMENT AT THE CENTERLINE INTERSECTION OF RALPH SEITZINGER DR. AND GALICENO PL. ELEVATION 4025.93
DATE	10-29-2013
BY	CITY REDLINES - MISC REVISION
R.O.	

PROJECT NAME
TERRA DEL ESTE UNIT SEVENTY TWO

BRING PORTION OF SECTIONS 97 AND 48, BLOCK 79, TOWNSHIP 2 S, RANGE 10 E, COUNTY OF EL PASO, TEXAS, TO THE CITY OF EL PASO, EL PASO COUNTY, TEXAS, CONTAINING: 97.655± ACRES

SCALE
HORIZ: 1" = 30'
VERT: 1" = 10'
DATE: SEPT. 2013
DESIGN BY: Y.C.
INITIATED BY: R.O.
CHECKED BY: Y.C.
JOB NO.: 112-08

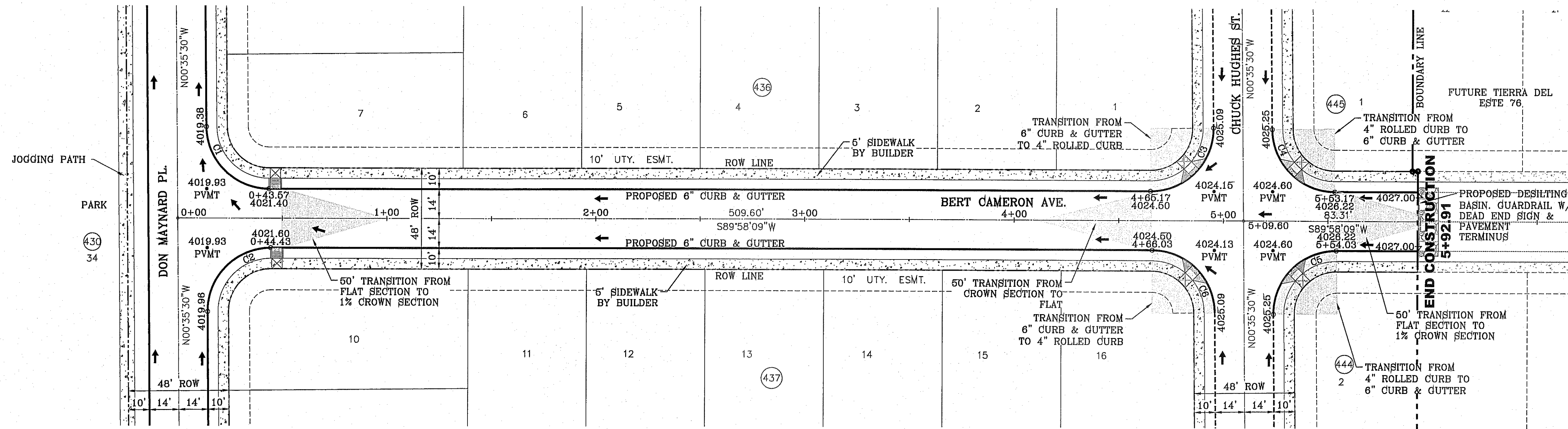
ENGINEER'S SEAL

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

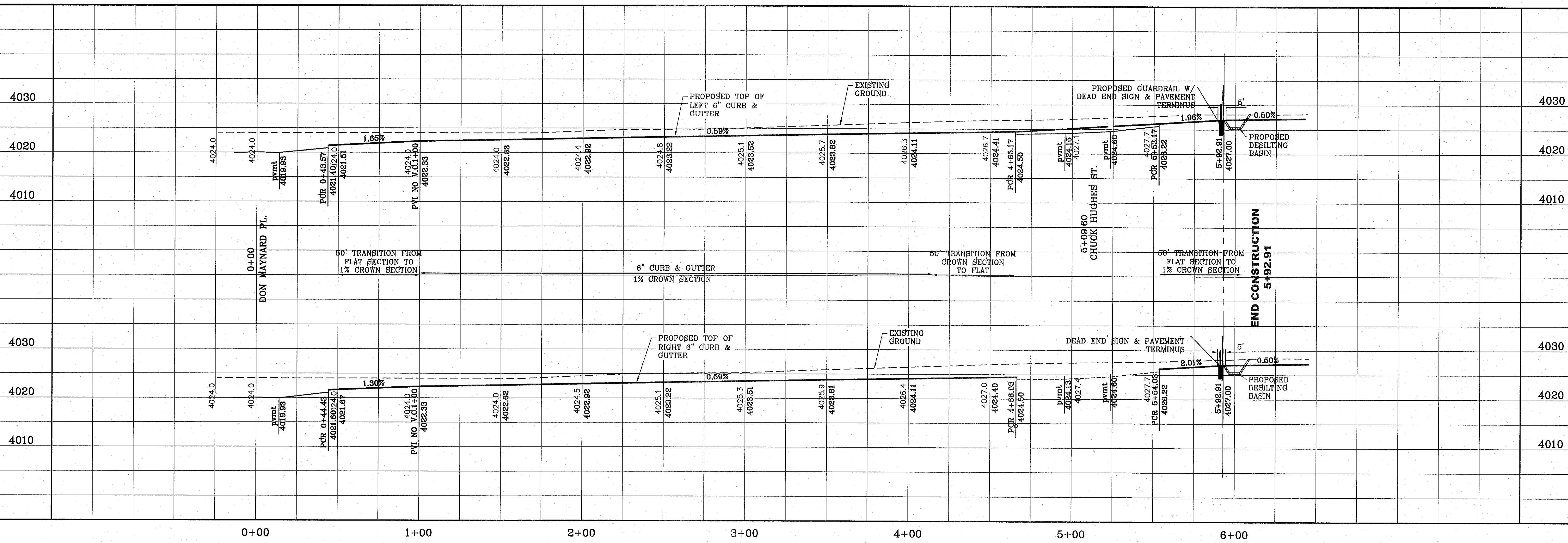
SHEET TITLE
STREET PLAN - PROFILE

BERT CAMERON AVE.

SHT 42 OF 70

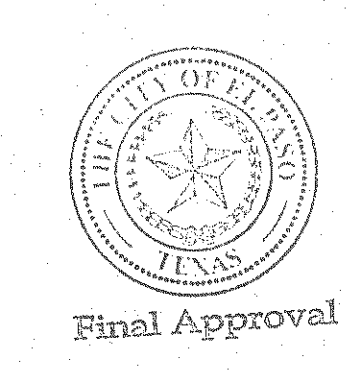
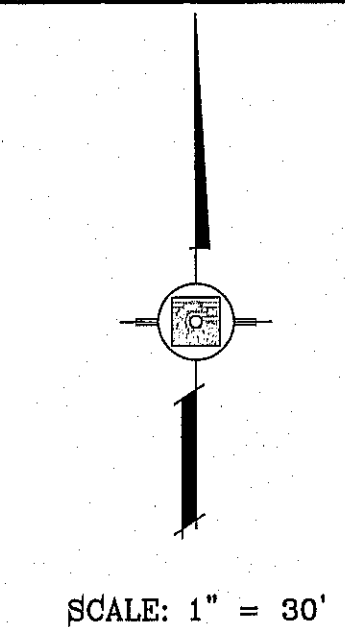
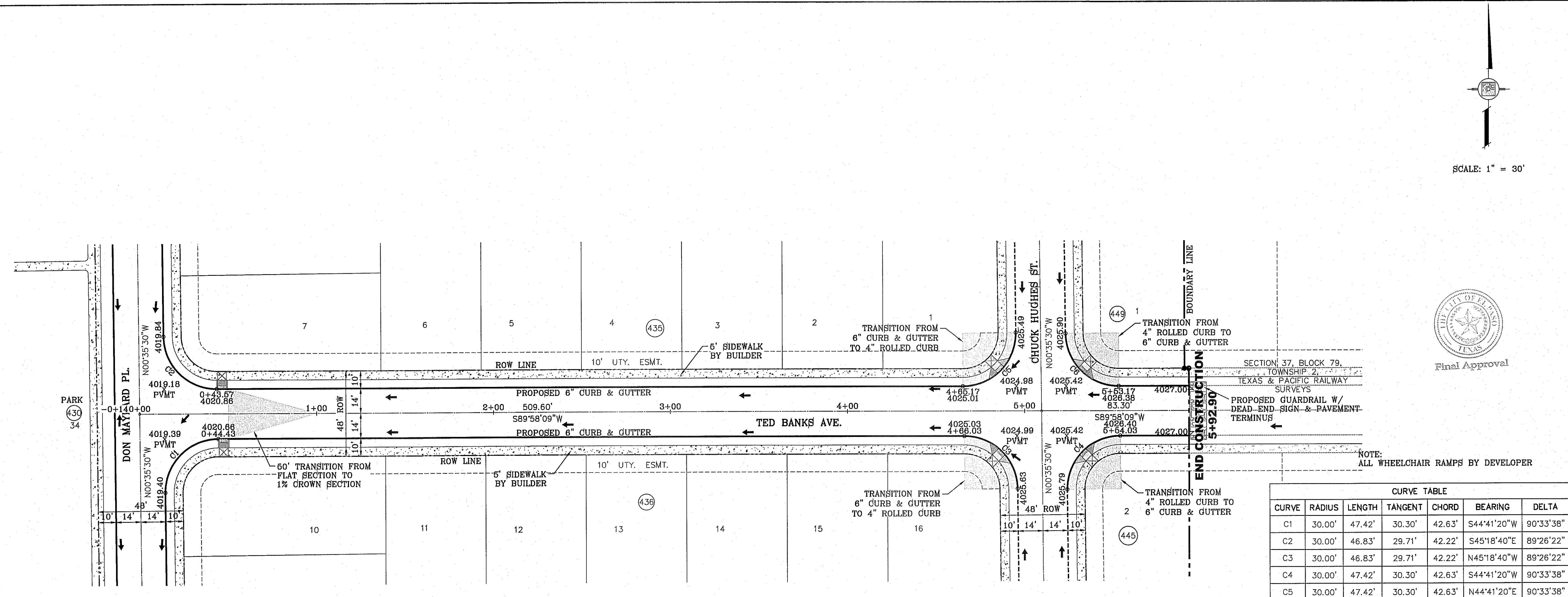


NOTE:
ALL WHEELCHAIR RAMPS BY DEVELOPER



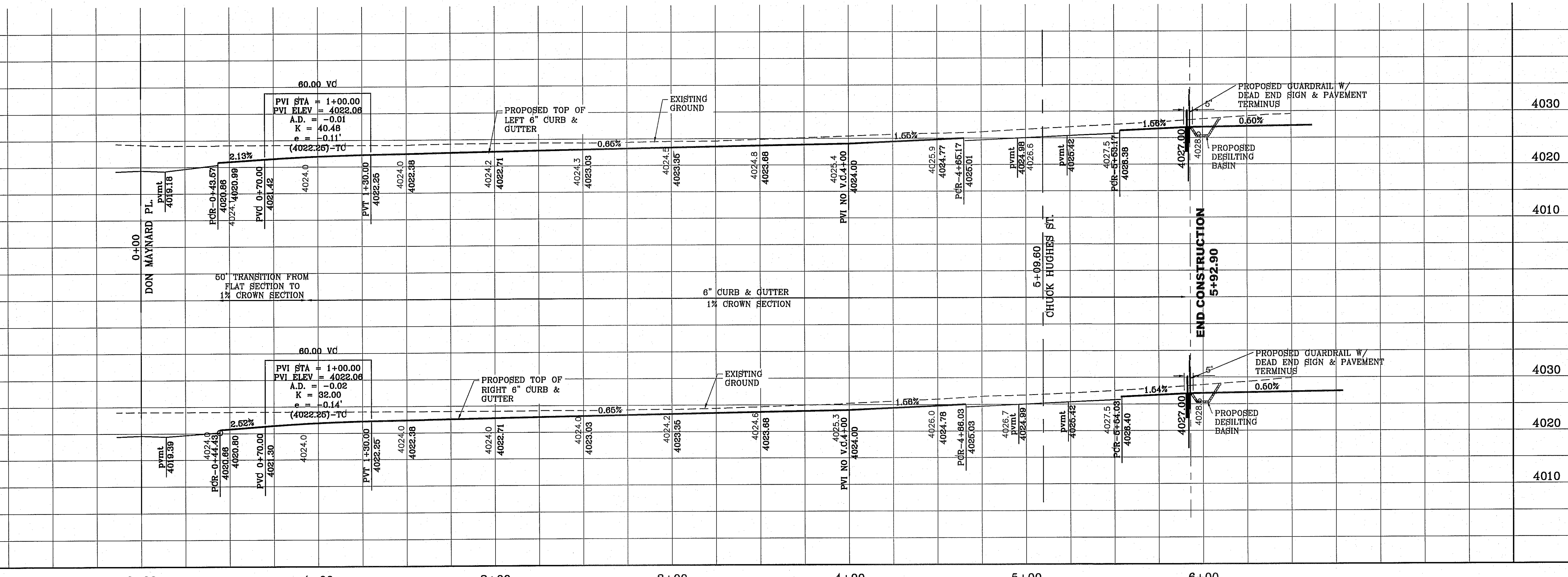
FILE LOCATION: S:\Subdivisions\TDE 72\TDE 72-PP19_BERT CAMERON PLOTTED ON Tuesday, December 02, 2014 2:31:34 PM BY ROGER ORTEGA

S:\Projects\2014\72-P20-TED BANKS AVE PLOTTED ON Friday, August 08, 2014 11:11:29 AM BY ROGER ORTEGA
 FILE LOCATION S:\Subdivisions\72_TDE_72_P20



NOTE: ALL WHEELCHAIR RAMPS BY DEVELOPER

CURVE TABLE						
CURVE	RADIUS	LENGTH	TANGENT	CHORD	BEARING	DELTA
C1	30.00'	47.42'	30.30'	42.63'	S44°41'20"W	90°33'38"
C2	30.00'	46.83'	29.71'	42.22'	S45°18'40"E	89°26'22"
C3	30.00'	46.83'	29.71'	42.22'	N45°18'40"W	89°26'22"
C4	30.00'	47.42'	30.30'	42.63'	S44°41'20"W	90°33'38"
C5	30.00'	47.42'	30.30'	42.63'	N44°41'20"E	90°33'38"
C6	30.00'	46.83'	29.71'	42.22'	S45°18'40"E	89°26'22"



**TERRA DEL ESTE
UNIT SEVENTY TWO**

BEING PORTION OF SECTIONS 37 AND 48, BLOCK 79,
TOWNSHIP 2, TEXAS AND PACIFIC RAILWAY CO. SURVEY,
CITY OF EL PASO, TEXAS
CONTAINING: .97581 ACRES

PROJECT NAME: TERRA DEL ESTE UNIT SEVENTY TWO

ENGINEER'S SEAL: [Seal of Roger Ortega, Professional Engineer, State of Texas, No. 112-08]

CONDE INC.
ENGINEERING / PLANNING
SURVEYING / GPS
6080 SURETY DR. STE 100
EL PASO, TEXAS 79905
PHONE: (915) 592-0283
FAX: (915) 592-0285

SHEET TITLE: STREET PLAN-PROFILE

TED BANKS AVE.

SHT 43 OF 70

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

DATE: SEPT. 2013
DESIGN BY: Y.C.
INITIATED BY: R.O.
CHECKED BY: Y.C.
JOB NO.: 112-08

BENCHMARK: CITY MONUMENT AT THE CENTERLINE INTERSECTION OF RALPH SUTSINGER DR. AND GALICENO PL. ELEVATION 4025.95 CITY DATUM

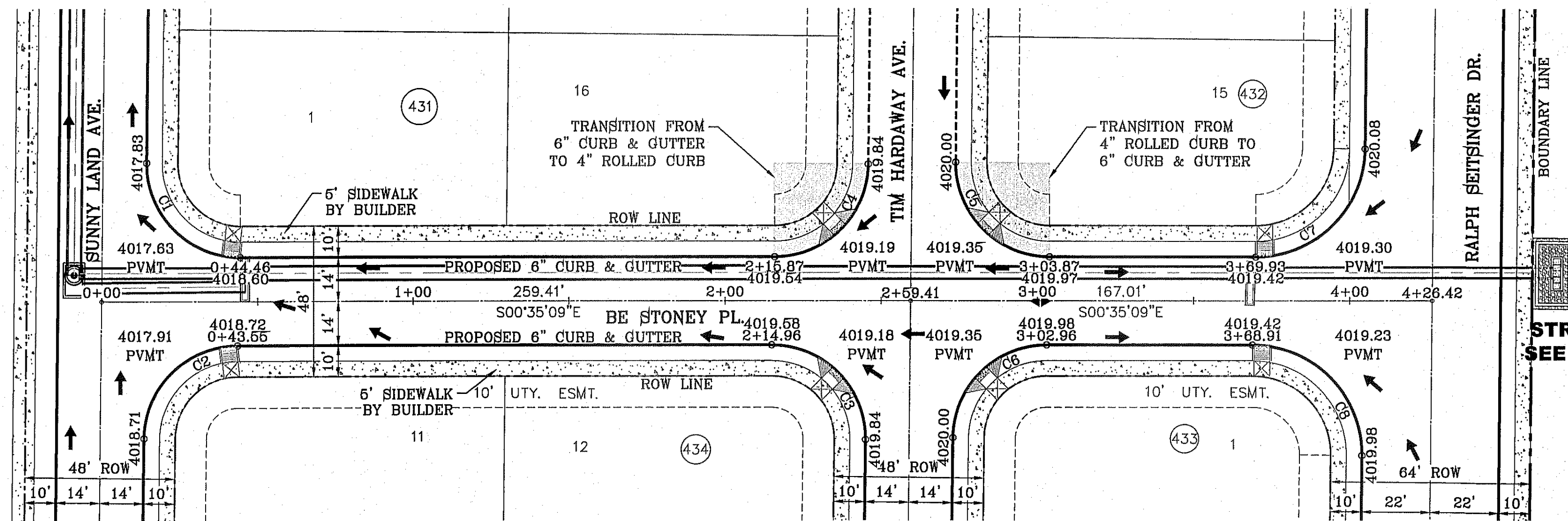
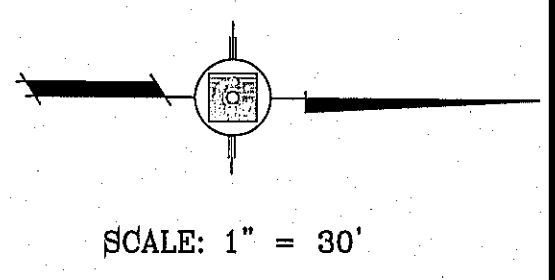
REVISIONS: CITY REDLINES - MISC REVISION

DATE: 10-28-2013

BY: R.O.

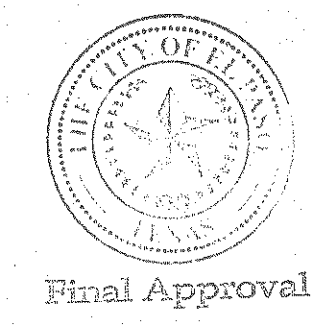
FILE LOCATION: S:\Subdivisions\TDE 72\TDE 72-PP21-BE STONEY PLOTTED ON Friday, August 08, 2014 11:11:40 AM BY RODER ORTEGA

CURVE TABLE						
CURVE	RADIUS	LENGTH	TANGENT	CHORD	BEARING	DELTA
C1	30.00'	47.43'	30.31'	42.64'	N44°42'36"E	90°35'30"
C2	30.00'	46.81'	29.69'	42.21'	S45°17'24"E	89°24'30"
C3	30.00'	47.43'	30.31'	42.64'	S44°42'36"W	90°35'30"
C4	30.00'	46.81'	29.69'	42.21'	N45°17'24"W	89°24'30"
C5	30.00'	47.43'	30.31'	42.64'	N44°42'36"E	90°35'30"
C6	30.00'	46.81'	29.69'	42.21'	S45°17'24"E	89°24'30"
C7	35.00'	54.62'	34.64'	49.24'	N45°17'24"W	89°24'30"
C8	35.00'	55.34'	35.36'	49.75'	S44°42'36"W	90°35'30"



SECTION 37, BLOCK 79,
 TOWNSHIP 2 TEXAS &
 PACIFIC RAILWAY
 SURVEYS
 DOC. No. 20040091659

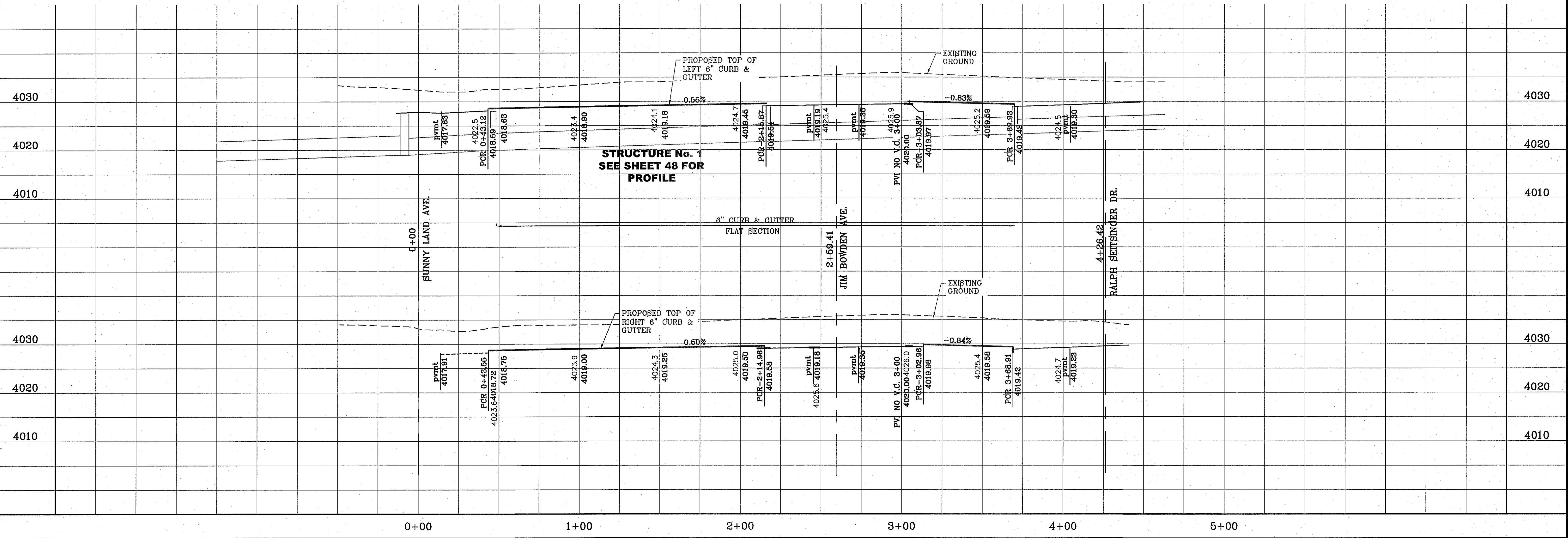
STRUCTURE No. 1
SEE SHEET 48 FOR
PROFILE



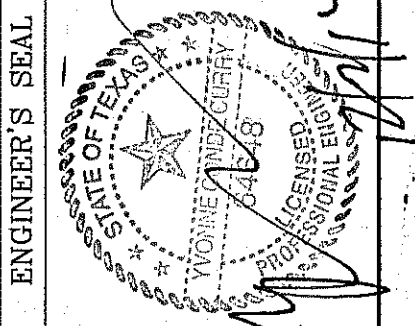
BENCHMARK	
CITY MONUMENT AT THE CENTERLINE INTERSECTION OF RALPH SEITSINGER DR. AND CALICENO PL.	ELEVATION 4025.93
.....CITY DATUM	
DATE	REVISIONS
10-29-2013	CITY REDLINES - MISC REVISION
	R.C.

PROJECT NAME
TERRA DEL ESTE
UNIT SEVENTY TWO
 BEING PORTION OF SECTIONS 37 AND 48, BLOCK 79,
 TOWNSHIP 2 TEXAS & PACIFIC RAILWAY SURVEYS,
 CITY OF EL PASO, EL PASO COUNTY, TEXAS
 CONTAINING: 97,651.1 ACRES

NOTE:
 ALL WHEELCHAIR RAMPS BY DEVELOPER



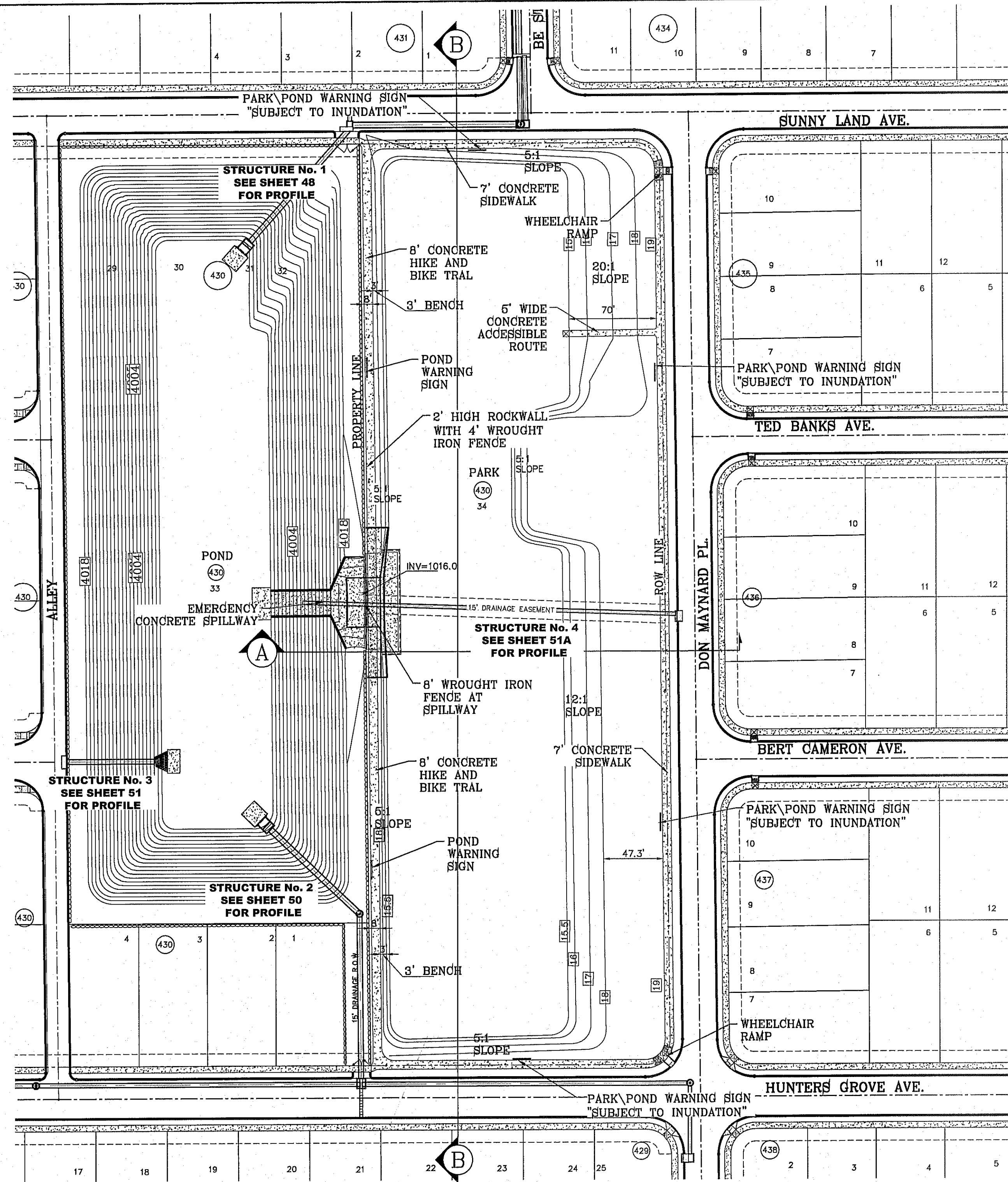
SCALE	
HORIZ: 1" = 30'	VERT: 1" = 10'
DATE: SEPT. 2013	DESIGN BY: Y.C.
	INITIATED BY: R.O.
	CHECKED BY: Y.C.
	JOB NO.: 112-08



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
BE STONEY PL.



PARK AREA ON SITE PONDING CALCULATIONS

Q = TOTAL RUNOFF IN ACRE-Feet
 A = 100% OF WATERSHED AREA IN ACRES
 R = RAINFALL IN INCHES
 C = RUNOFF FACTOR INCHES

$$Q = \frac{ARC}{12} = \frac{4.08(3.5)0.39}{12} = 0.46 \text{ ac-ft}$$

HW ELEV = 4015.75

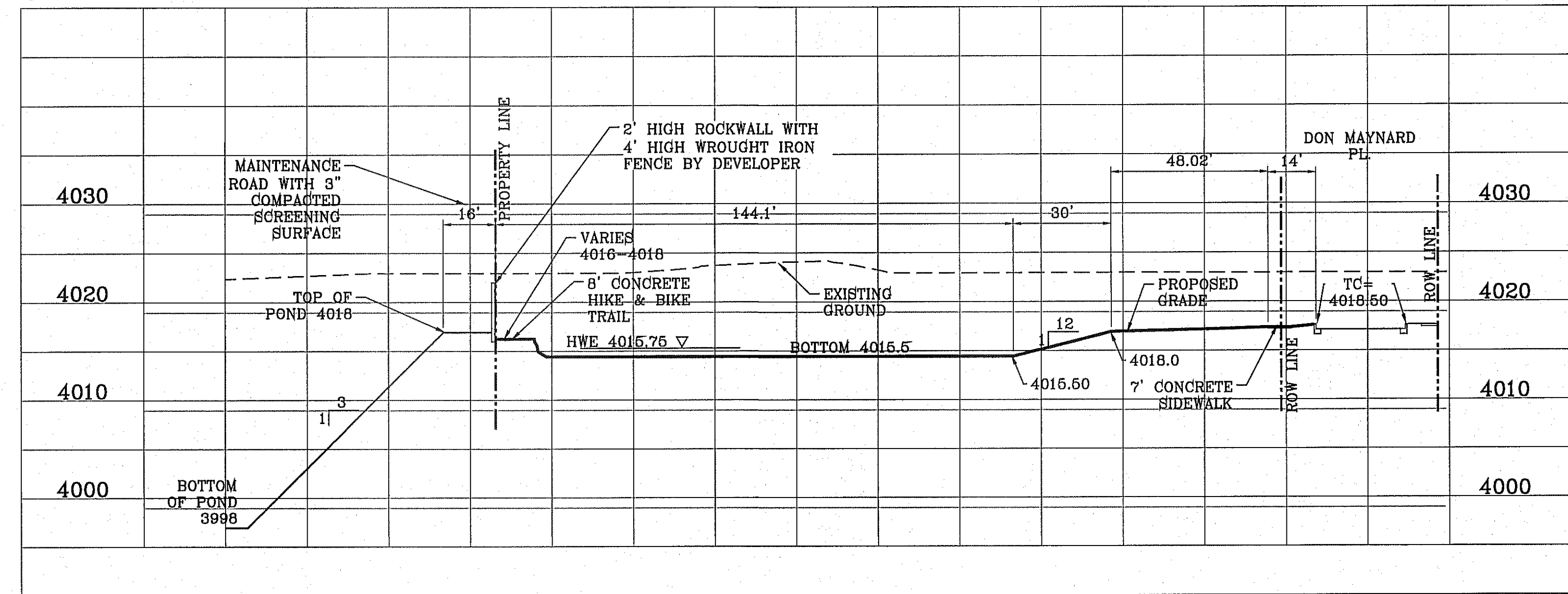
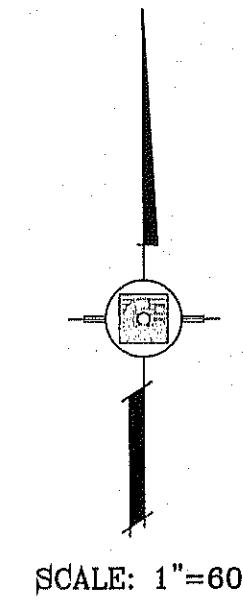
DRAINAGE COMPUTATIONS

ON SITE PARK PONDING CALCULATIONS						
	LOT NO.	BLOCK NO.	PARK AREA (AC)	REQUIRED CAPACITY (ac. ft.)	AVAILABLE CAPACITY (ac. ft.)	HIGH WATER SURFACE ELEV. (ft)
PARK	34	430	4.08	0.54	2.36	4015.75

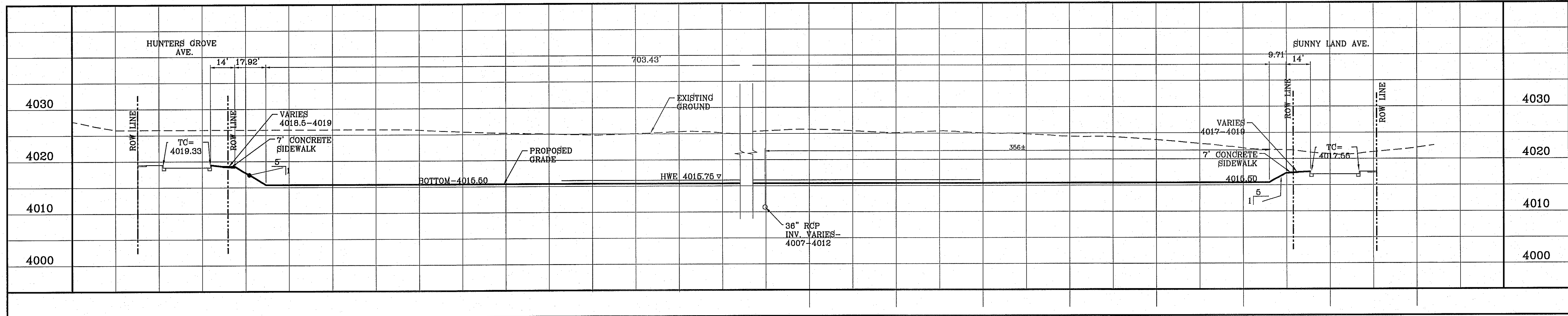
PARK AREA		
$Q = \frac{ARC}{12} = \frac{4.08(4)(0.4)}{12} = 0.64$		
ELEVATION FT	AREA SQ-FT	VOLUME CAP AC-FT
4017.00	2.70	3.68
4016.50	2.48	2.36
4016.00	2.39	1.15
4015.50	2.20	0.00

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 PARK DETAILS



SECTION A
 SCALE: 1"=30' HOR.
 SCALE: 1"=10' VERT.



SECTION B
 SCALE: 1"=30' HOR.
 SCALE: 1"=10' VERT.

BENCHMARK

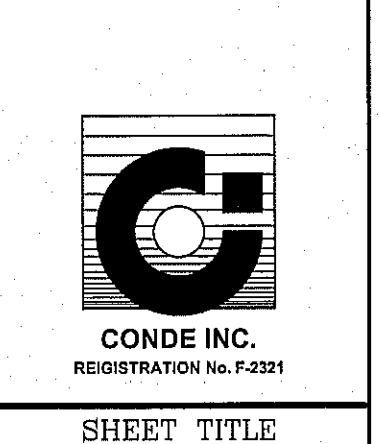
CITY MONUMENT AT THE CENTERLINE INTERSECTION OF RALPH SEITZINGER DR. AND GARCENO PL. ELEVATION 4025.93	CITY DATUM
DATE	REVISIONS
10-29-2013	CITY REDLINES - PARK GRADE
	R.C.

TERRA DEL ESTE UNIT SEVENTY TWO

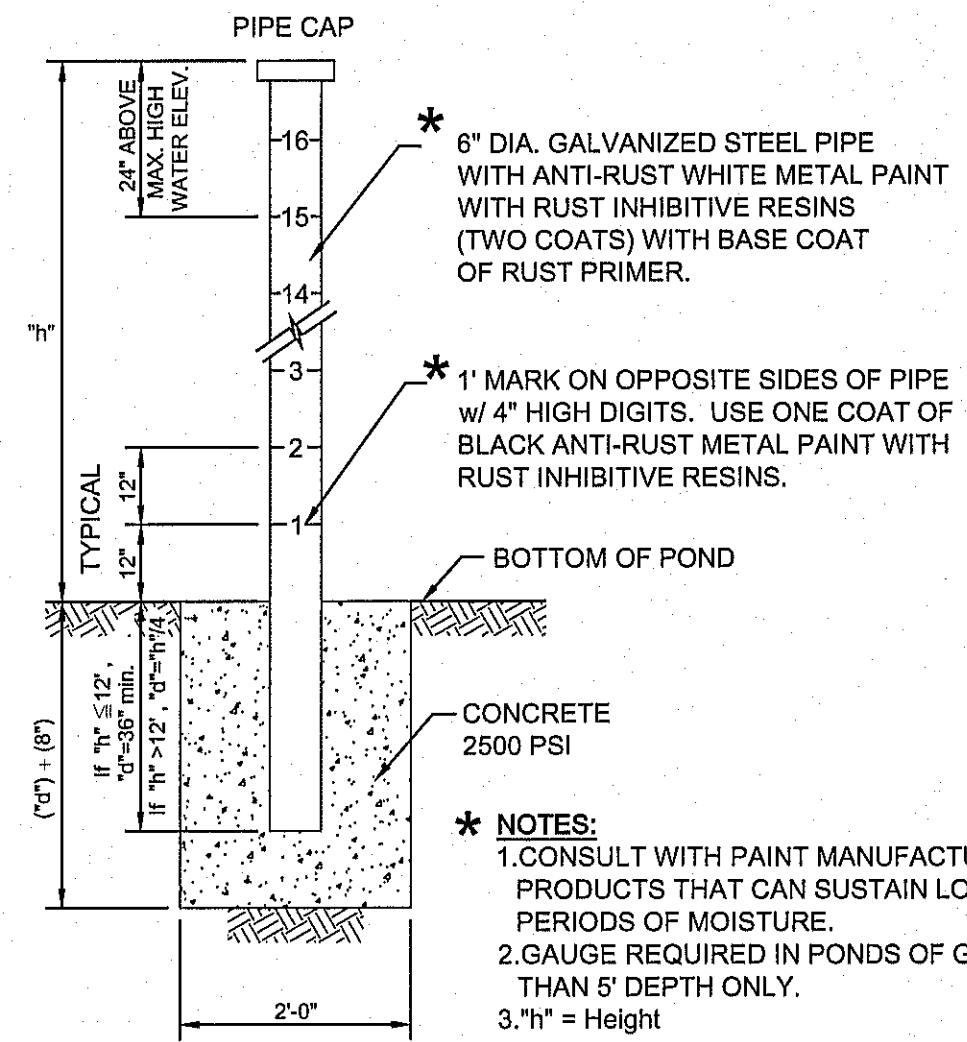
BRING PORTION OF SECTIONS 37 AND 48, BLOCK 79, TOWNSHIP 2, TEXAS AND PACIFIC RAILWAY CO. SURVEYS, CITY OF EL PASO, EL PASO COUNTY, TEXAS CONTAINING: 97.651 ± ACRES

SCALE: 1"=60' HORIZ. 1"=10' VERT.
 DATE: SEPT. 2013
 DESIGN BY: Y.C.
 INITIATED BY: R.C.
 CHECKED BY: Y.C.
 JOB NO.: 112-08

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



PARK GRADING



POND DEPTH GAUGE
SCALE: 1/2"=1'-0"

NOTE: ALTERNATES WILL BE ALLOWED WITH THE PRIOR REVIEW AND APPROVAL OF THE CITY ENGINEER.

BASIN CALC.					
BASIN No.	REQUIRED CAPACITY (ac. ft.)	AVAILABLE CAPACITY (ac. ft.)	PEAK INFLOW (cfs)	HIGH WATER SURFACE ELEV. (ft)	FREE BOARD (ft)
POND	33.72	37.56	169.80	4016.3	1.4'

PARK AREA		
$Q = \frac{A \cdot R \cdot C}{12} = \frac{4.08(4)(0.4)}{12} = 0.54$		
ELEVATION FT	AREA Sq-FT	VOLUME CAP AC-FT
4017.00	2.70	3.68
4016.50	2.48	2.36
4016.00	2.39	1.15
4015.50	2.20	0.00

- NOTES:**
- POND SLOPE TO BE STABILIZED WITH HYDROMULCH SEED FORMULA GSD SHEET 7
 - 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.
 - ON SITE PONDING SPECS: PONDS SHALL HAVE BORINGS TESTS PERFORMED TO A DEPTH OF FIVE FEET BELOW THE BASIN INVERT. THE BOTTOM OF THE BASIN SHALL BE A MINIMUM OF 24 INCHES ABOVE THE HIGH WATER TABLE. PERCOLATION TESTS SHALL BE PERFORMED ONCE THE BASIN HAS BEEN EXCAVATED TO CONFORM TO ASTM-6126 TO ASSURE ADEQUATE PERCOLATION RATES. STORMWATER WITHIN THE BASIN SHALL PERCOLATE WITHIN 72 HOURS. A GEOTECHNICAL INVESTIGATION PERFORMED BY A LICENSED PROFESSIONAL GEOTECHNICAL ENGINEER SHALL BE SUBMITTED IN ORDER TO CONFIRM THE SUBSURFACE SOIL PROFILE AND PERCOLATION TEST RESULTS.

WATERSHED-POND 2:1 SLOPE

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

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

TDE 72 RESIDENTIAL	85.23 AC.
OFFSITE RESIDENTIAL	43.07 AC.
SCHOOL	17.0 AC.
PARK	4.08 AC.
OFFSITE TOWNHOMES	7.04 AC.
TOTAL AREA	166.42 AC.

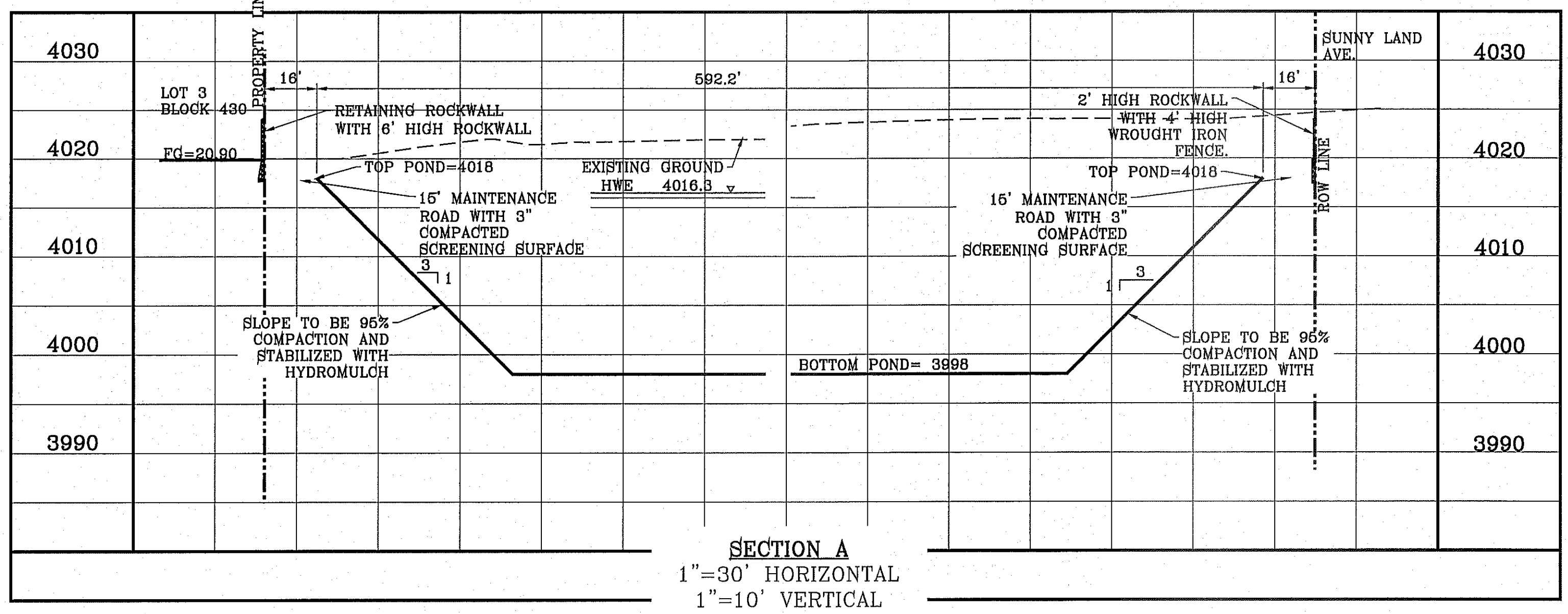
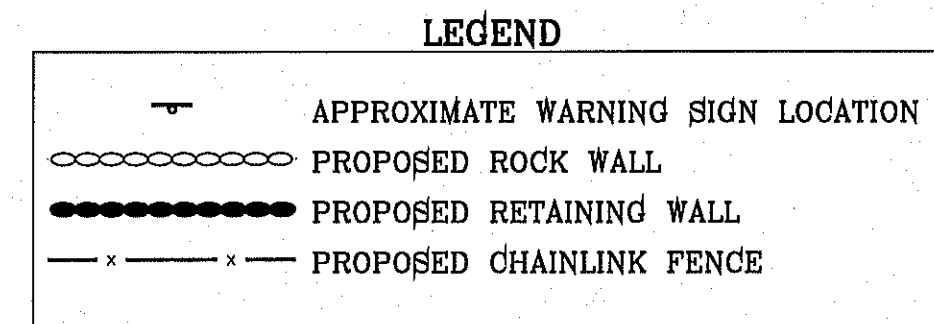
100 YR. CALCULATION

RESIDENTIAL	$\frac{128.30(4)0.60}{12} = 25.66$ ac-ft
SCHOOL & TOWNHOMES	$\frac{24.04(4)0.94}{12} = 7.53$ ac-ft
PARK	$\frac{4.08(4)0.39}{12} = 0.53$ ac-ft
TOTAL REQ'D	33.72 ac-ft
TOTAL AVAILABLE	37.56 ac-ft

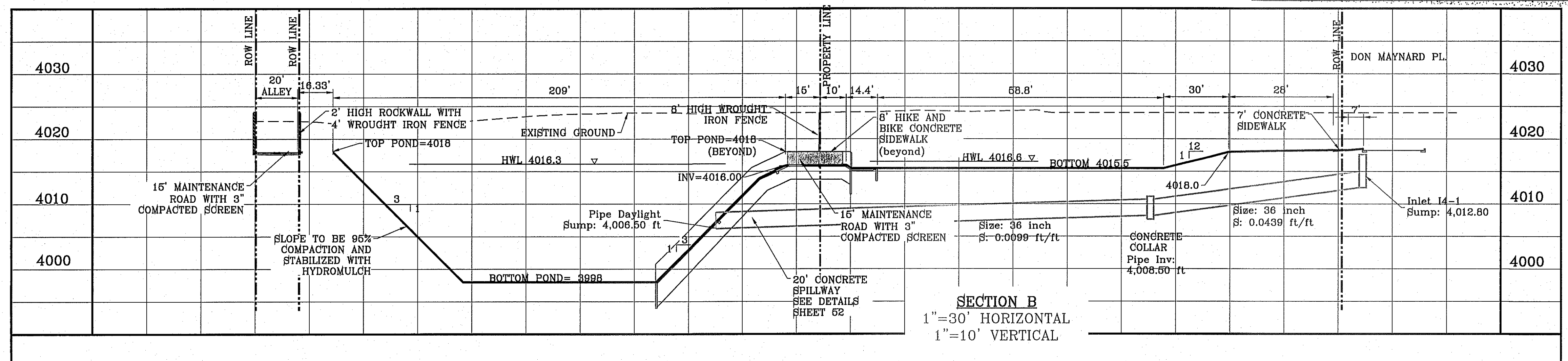
100 YEAR HW ELEVATION = 4016.30
POND AND PARK

50 YR. CALCULATION

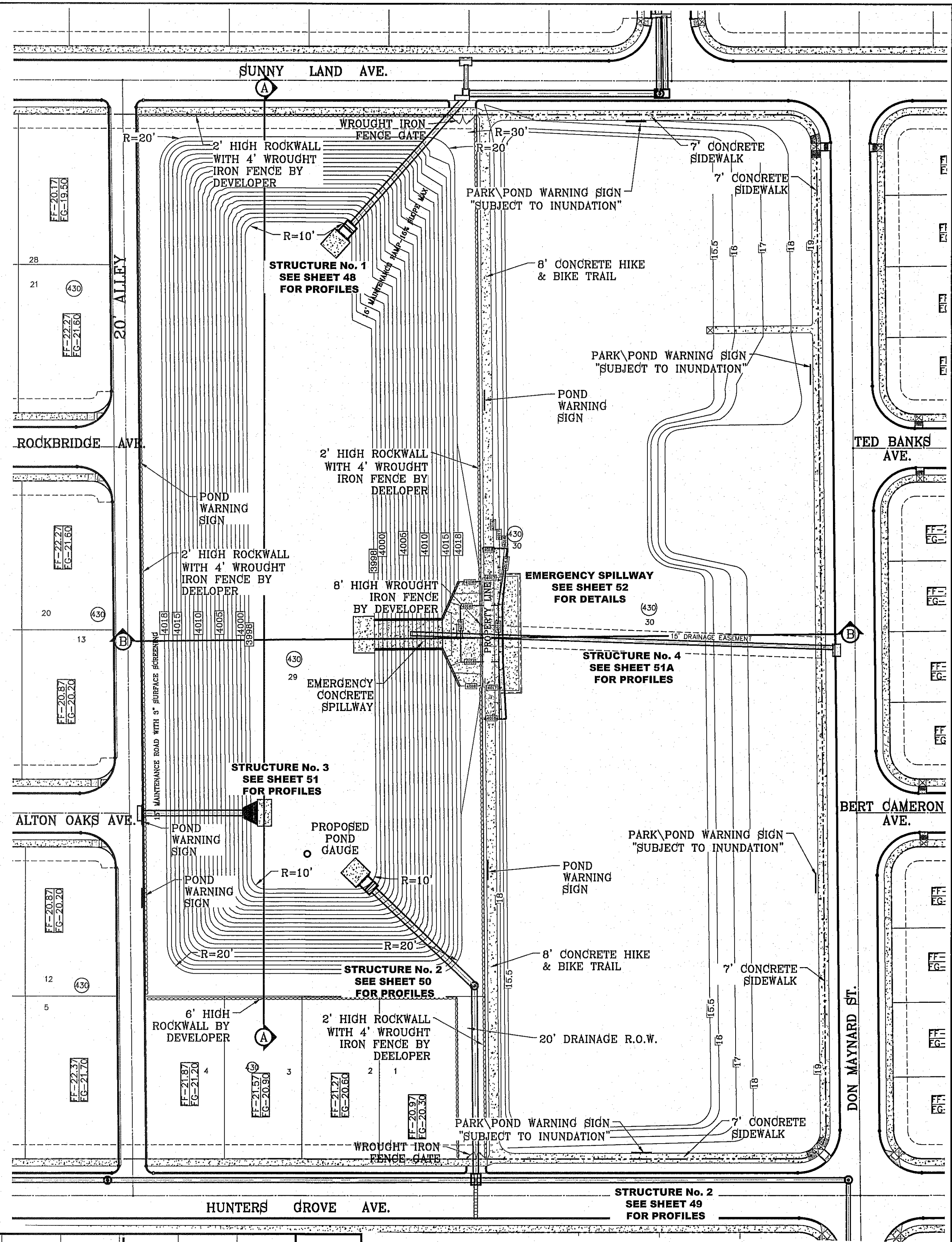
RESIDENTIAL	$\frac{128.30(3.5)0.60}{12} = 22.46$ ac-ft
SCHOOL & TOWNHOMES	$\frac{24.04(3.5)0.90}{12} = 6.31$ ac-ft
PARK	$\frac{4.08(3.5)0.39}{12} = 0.46$ ac-ft
TOTAL REQ'D	29.22 ac-ft
TOTAL AVAILABLE	37.56 ac-ft



SECTION A
1"=30' HORIZONTAL
1"=10' VERTICAL



SECTION B
1"=30' HORIZONTAL
1"=10' VERTICAL



SCALE: 1" = 50'

TERRA DELESTE UNIT SEVENTY TWO

BRING PORTION OF SECTIONS 37 AND 48, BLOCK 76, TOWNSHIP 2, TEXAS AND PACIFIC RAILWAY CO. SURVEYS, CITY OF EL PASO, EL PASO COUNTY, TEXAS CONTAINING: 97.561 ± ACRES

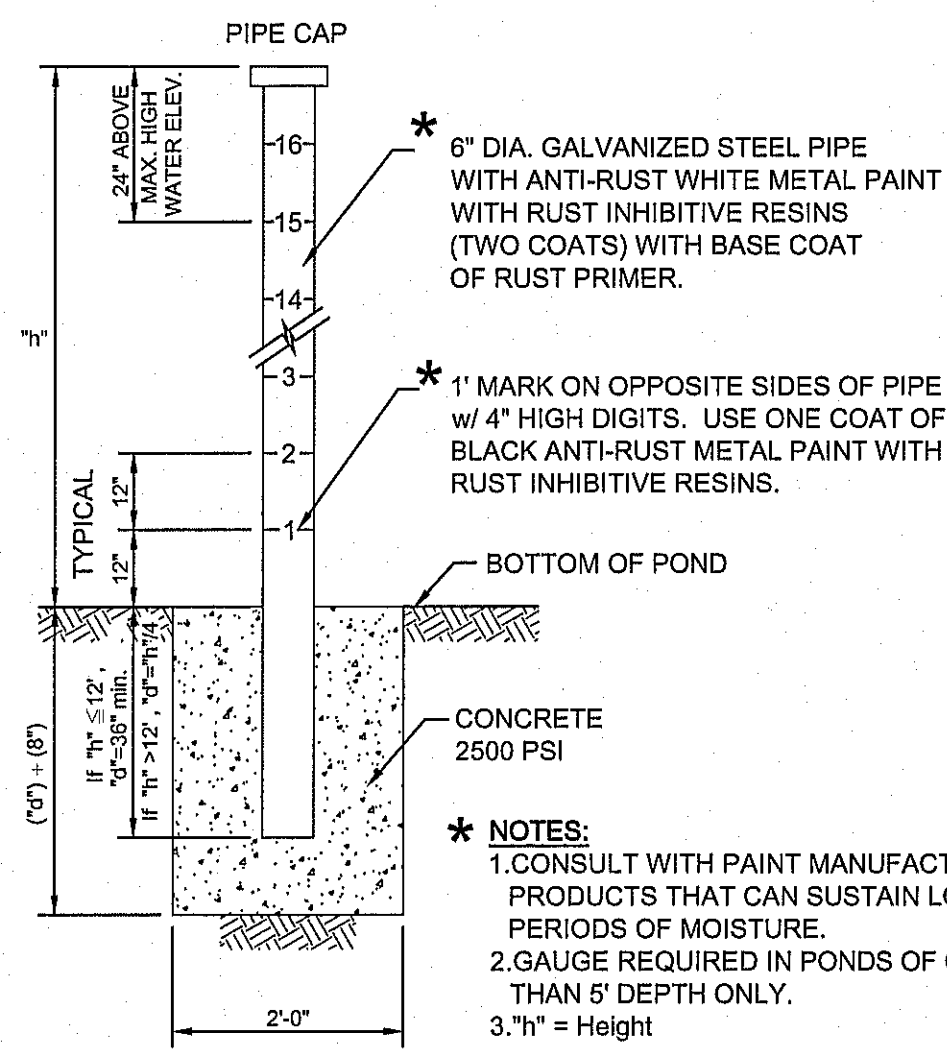
CONDE INC.
 ENGINEERING / PLANNING
 SURVEYING / GPS
 6080 SURETY DR. STE 100
 EL PASO, TEXAS 79905
 PHONE: (915) 592-0283
 FAX: (915) 592-0286

CONDE INC.
 REGISTRATION No. F-2321

SHEET TITLE
POND DETAILS

SHT 47 OF 70

LAST SAVED ON December 2, 2014 BY ortega
 FILE LOCATION S:\Subdivisions\TDE 72\TDE 72-POND.dwg, 12/2/2014 2:53:52 PM, DWF6 ePlot.pc3



POND DEPTH GAUGE

SCALE: 1/2"=1'-0"

NOTE: ALTERNATES WILL BE ALLOWED WITH THE PRIOR REVIEW AND APPROVAL OF THE CITY ENGINEER.

LEGEND

- APPROXIMATE WARNING SIGN LOCATION
- PROPOSED ROCK WALL
- PROPOSED RETAINING WALL
- PROPOSED CHAINLINK FENCE

BASIN CALCS.					
BASIN No.	REQUIRED CAPACITY (ac. ft.)	AVAILABLE CAPACITY (ac. ft.)	PEAK INFLOW (cfs)	HIGH WATER SURFACE ELEV. (ft.)	FREE BOARD (ft.)
POND	33.72	37.56	169.80	4016.3	1.4'

PARK AREA		
$Q = \frac{ARC}{12} = \frac{4.08(4)(0.4)}{12} = 0.54$		
ELEVATION FT.	AREA SQ-FT	VOLUME CAP AC-FT
4017.00	2.70	3.88
4016.50	2.48	2.36
4016.00	2.39	1.15
4015.50	2.20	0.00

NOTES:

- POND SLOPE TO BE STABILIZED WITH HYDROMULCH SEED FORMULA GSD SHEET 7
- 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.
- ON SITE PONDING SPECS: PONDS SHALL HAVE BORINGS TESTS PERFORMED AT A DEPTH OF FIVE FEET BELOW THE BASIN INVERT. THE BOTTOM OF THE BASIN SHALL BE A MINIMUM OF 24 INCHES ABOVE THE HIGH WATER TABLE. PERCOLATION TESTS SHALL BE PERFORMED ONCE THE BASIN HAS BEEN EXCAVATED TO CONFORM TO ASTM-5126 TO ASSURE ADEQUATE PERCOLATION RATES. STORMWATER WITHIN THE BASIN SHALL PERCOLATE WITHIN 72 HOURS. A GEOTECHNICAL INVESTIGATION PERFORMED BY A LICENSED PROFESSIONAL GEOTECHNICAL ENGINEER SHALL BE SUBMITTED IN ORDER TO CONFIRM THE SUBSURFACE SOIL PROFILE AND PERCOLATION TEST RESULTS.

WATERSHED-POND 2:1 SLOPE

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

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

TDE 72 RESIDENTIAL	85.23 AC.
OFFSITE RESIDENTIAL	43.07 AC.
SCHOOL	17.0 AC.
PARK	4.08 AC.
OFFSITE TOWNHOMES	7.04 AC.
TOTAL AREA	156.42 AC.

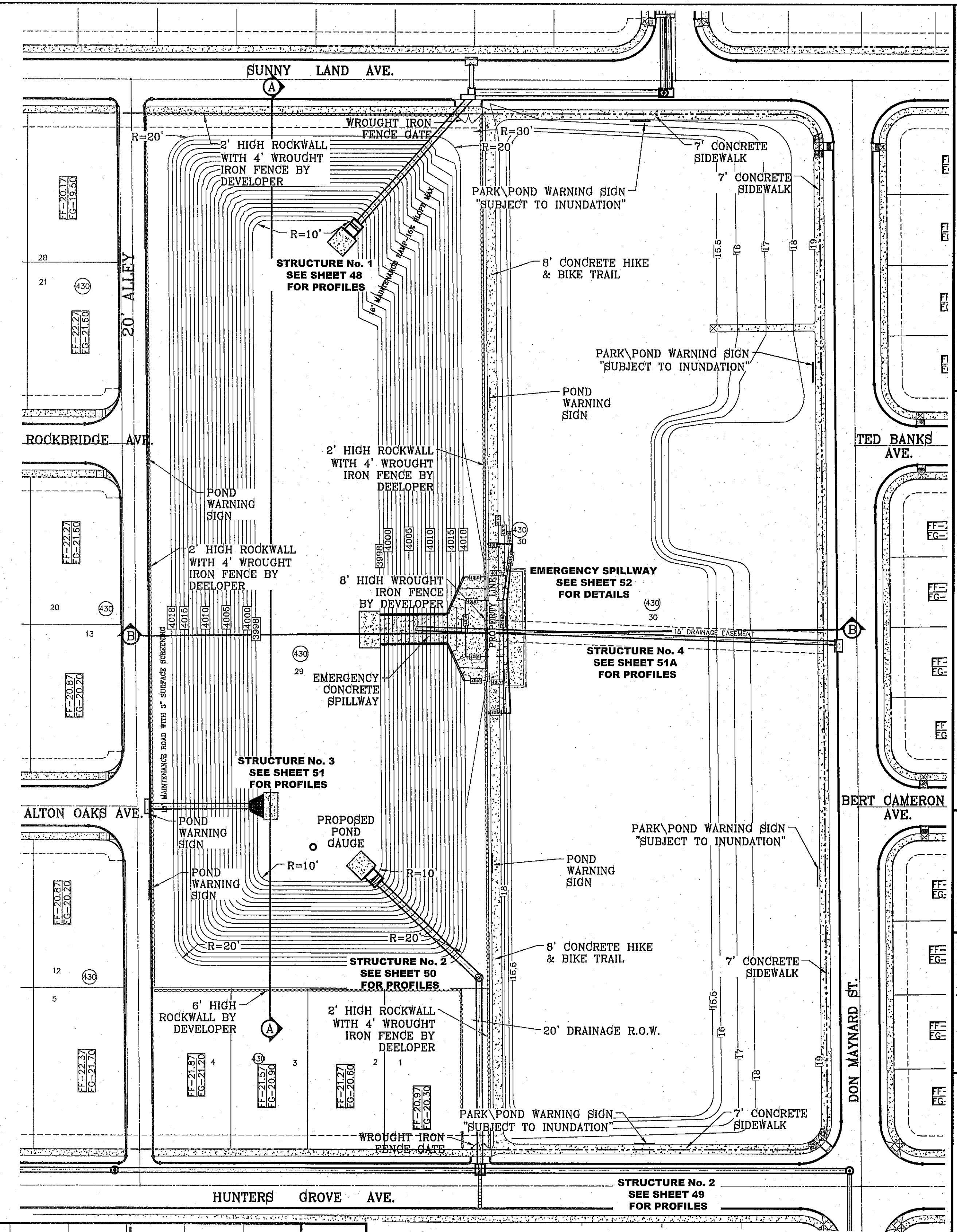
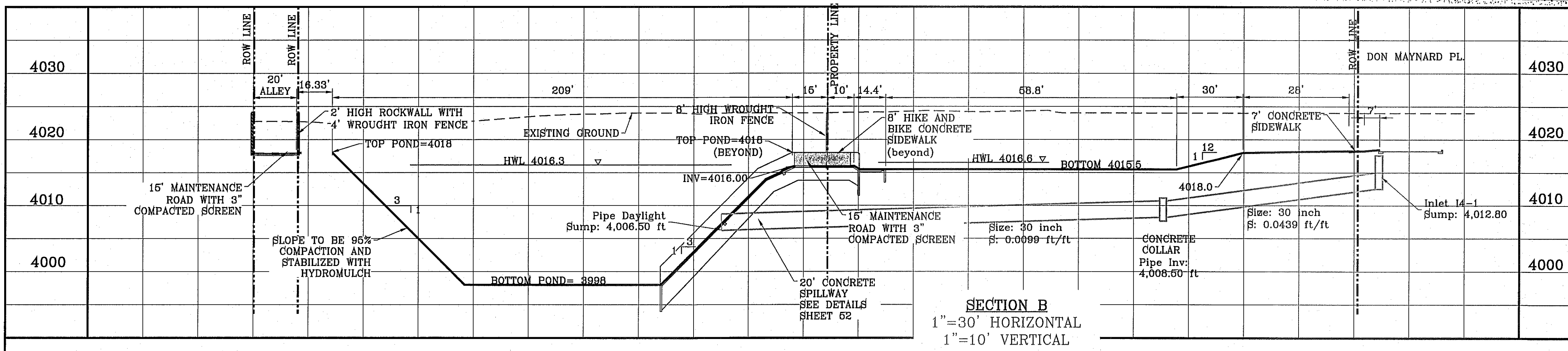
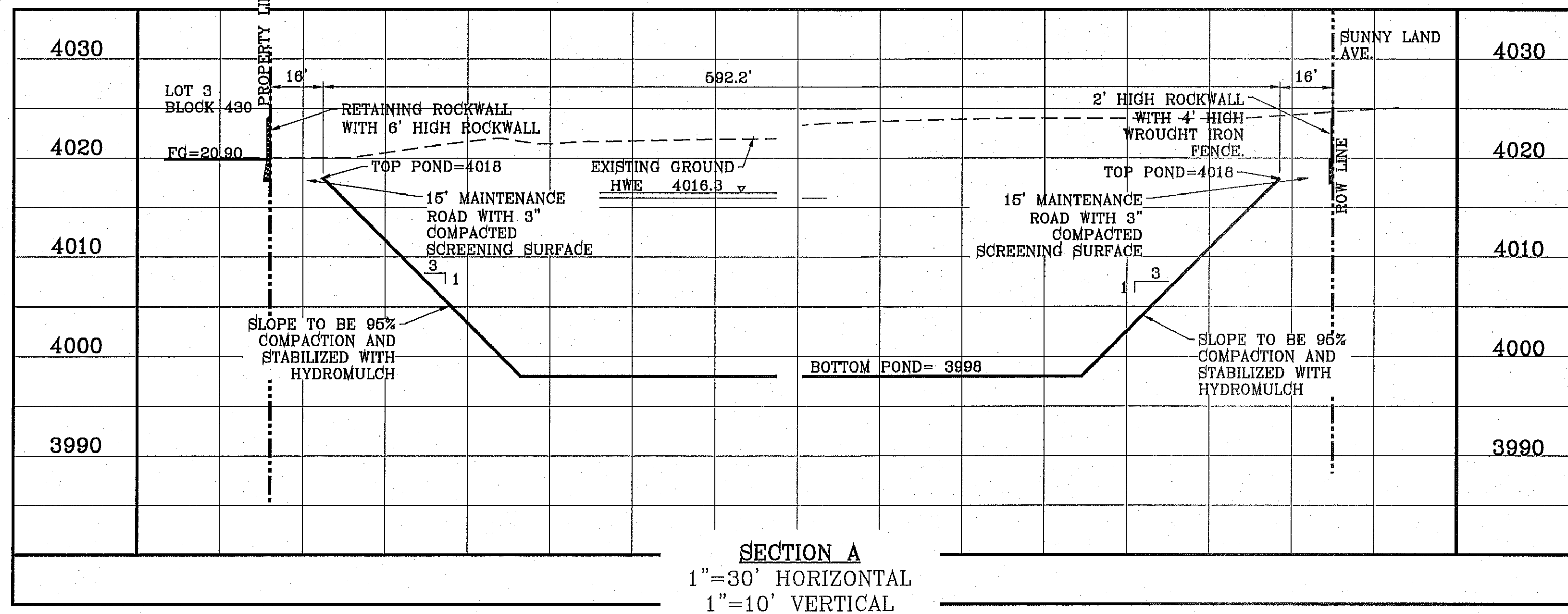
100 YR. CALCULATION

RESIDENTIAL	$\frac{128.30(4)0.60}{12} = 25.66$ ac-ft
SCHOOL & TOWNHOMES	$\frac{24.04(4)0.94}{12} = 7.53$ ac-ft
PARK	$\frac{4.08(4)0.39}{12} = 0.53$ ac-ft
TOTAL REQ'D	33.72 ac-ft
TOTAL AVAILABLE	37.56 ac-ft

100 YEAR HW ELEVATION = 4016.30
POND AND PARK

50 YR. CALCULATION

RESIDENTIAL	$\frac{128.30(3.5)0.60}{12} = 22.46$ ac-ft
SCHOOL & TOWNHOMES	$\frac{24.04(3.5)0.90}{12} = 6.31$ ac-ft
PARK	$\frac{4.08(3.5)0.39}{12} = 0.46$ ac-ft
TOTAL REQ'D	29.22 ac-ft
TOTAL AVAILABLE	37.56 ac-ft



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-2351

SHEET TITLE
POND DETAILS

SHT 47 OF 70

TIERRA DEL ESTE UNIT SEVENTY TWO

SEVENTY TWO

PROJECT NAME: TIERRA DEL ESTE UNIT SEVENTY TWO
 BEING PORTION OF SECTIONS 37 AND 46, BLOCK 79, TOWNSHIP 2, SURVEYS AND PACIFIC RAILWAY CO. SURVEYS, EL PASO, EL PASO COUNTY, TEXAS
 CITY OF EL PASO, TEXAS
 CITY ENGINEER: [Signature]
 DATE: 10-29-2013
 REVISIONS: [Table]
 CITY ENGINEER: [Signature]
 CITY ENGINEER: [Signature]
 CITY ENGINEER: [Signature]

SCALE: HORIZ: 1" = 60', VERT: 1" = 10'

DATE: SEPT. 2013
DESIGN BY: Y.C.
INITIATED BY: R.O.
CHECKED BY: Y.C.
JOB NO.: 112-08

ENGINEER'S SEAL: [Seal]

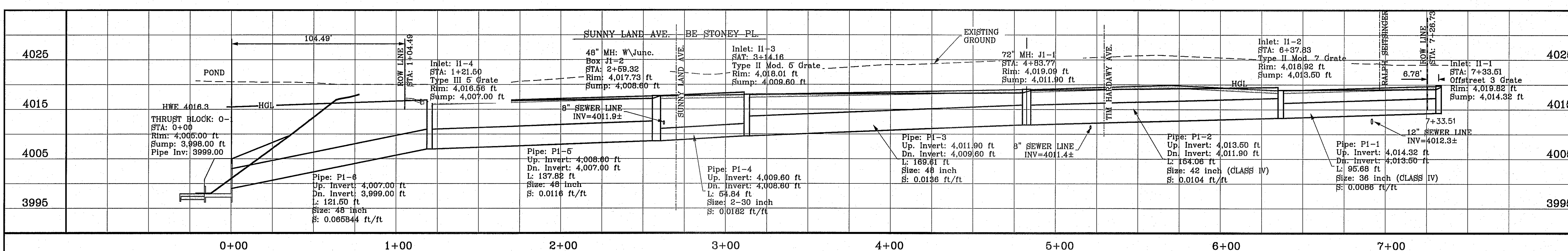
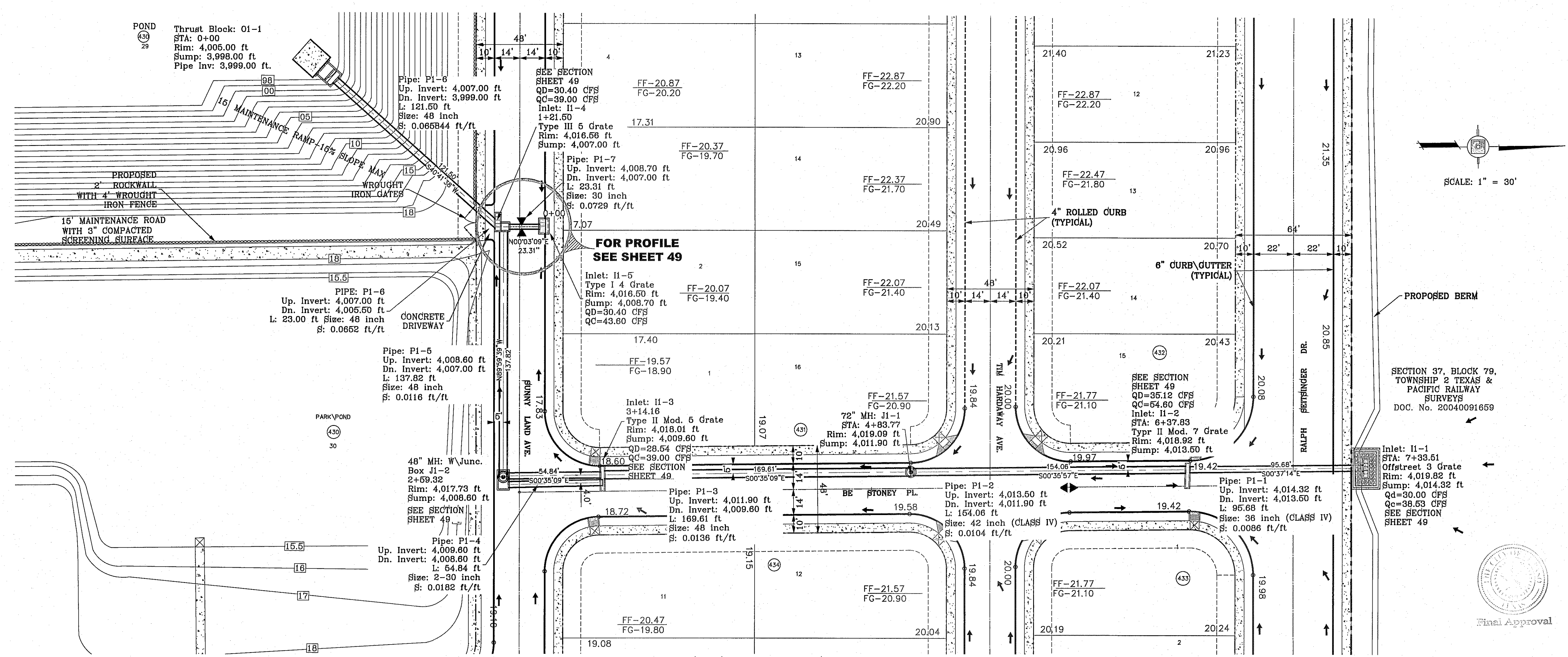
BENCHMARK: CITY MONUMENT AT THE CENTERLINE INTERSECTION OF RALPH SEITZINGER DR AND CALICENO PL. ELEVATION 4026.93 ... CITY DATUM

REVISIONS:

DATE	BY	REVISIONS
10-29-2013 <td>R.O. <td>CITY REDLINES - MISC REVISION</td> </td>	R.O. <td>CITY REDLINES - MISC REVISION</td>	CITY REDLINES - MISC REVISION
1-13-2014 <td>Y.C. <td>3rd CITY REDLINES</td> </td>	Y.C. <td>3rd CITY REDLINES</td>	3rd CITY REDLINES

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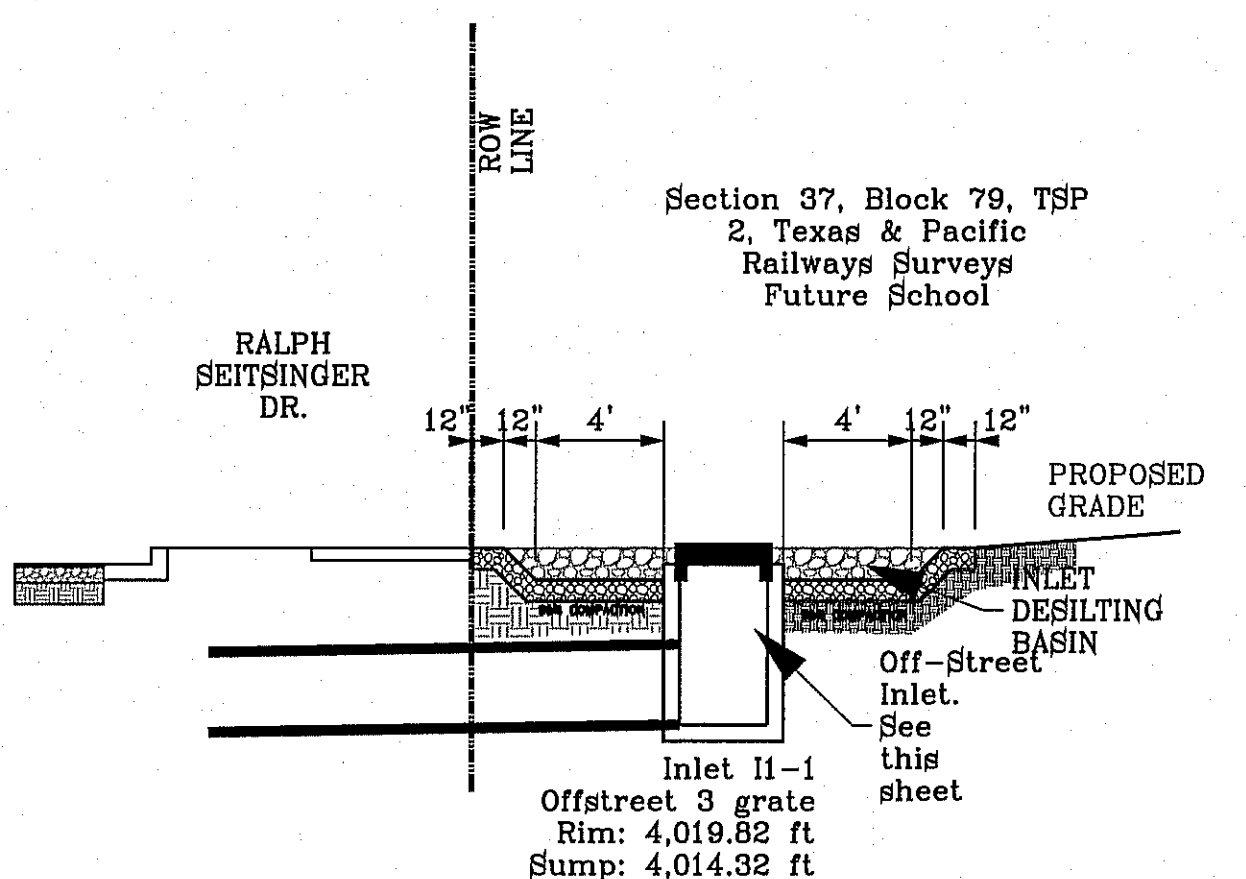
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PIPE	SECTION SIZE (in)	LENGTH (ft)	CONSTRUCTED SLOPE (ft/ft)	DISCHARGE (cfs)	CAPACITY (cfs)	AVERAGE VELOCITY (ft/s)	DOWN STREAM GROUND	DOWN STREAM HGL	DOWN STREAM INVERT	UPSTREAM GROUND	UPSTREAM HGL	UPSTREAM INVERT
P1-1	36	95.68	0.0086	30.00	61.74	4.24	18.92	18.92	13.50	19.82	19.11	14.32
P1-2	42	164.06	0.0104	65.12	102.53	6.77	19.09	18.86	11.90	18.92	18.92	13.50
P1-3	48	169.81	0.0136	65.12	167.26	5.18	18.01	18.01	9.60	19.09	18.36	11.90
P1-4	2-30	64.84	0.0182	93.66	110.77	9.54	17.73	17.73	8.60	18.01	18.01	9.60
P1-5	48	137.82	0.0116	93.66	154.76	7.45	16.56	16.56	7.00	17.73	17.15	8.60
P1-6	48	121.50	0.0658	154.46	368.57	12.29	5.00	16.30	99.00	16.56	16.56	7.00
P1-7	30	23.31	0.0729	30.40	110.76	6.19	16.56	16.56	7.00	17.07	16.69	8.70

INLET DATA				
INLET No.	INLET TYPE	No. GRATES	Qd cfs	Qc cfs
II-1	OFFSTREET	3	30.00	38.52
II-2	II Mod.	7	35.12	54.60
II-3	II Mod.	5	28.54	39.00
II-4	III	5	30.40	39.00
II-5	I	4	30.40	43.60

- 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.
- ALL PIPES ARE R.O.P. CLASS III UNLESS OTHERWISE NOTED.



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

PROJECT NAME: TIERRA DEL ESTE UNIT SEVENTY TWO

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

DATE: SEPT. 2013
DESIGN BY: Y.C.
INITIATED BY: R.O.
CHECKED BY: Y.C.
JOB NO.: 112-08

REVISIONS:

DATE	BY	REVISIONS
10-28-2013	R.O.	1ST CITY REDLINES
12-7-2013	R.O.	31 POND SLOPES
1-13-2014	R.O.	3rd CITY REDLINES

BENCHMARK: CITY MONUMENT AT THE CENTERLINE INTERSECTION OF SEITZINGER DR. AND CHAVENO PL. ELEVATION 4625.95 CITY DATUM

SECTION 37, BLOCK 79, TOWNSHIP 2 TEXAS & PACIFIC RAILWAY SURVEYS, DOC. No. 20040091659

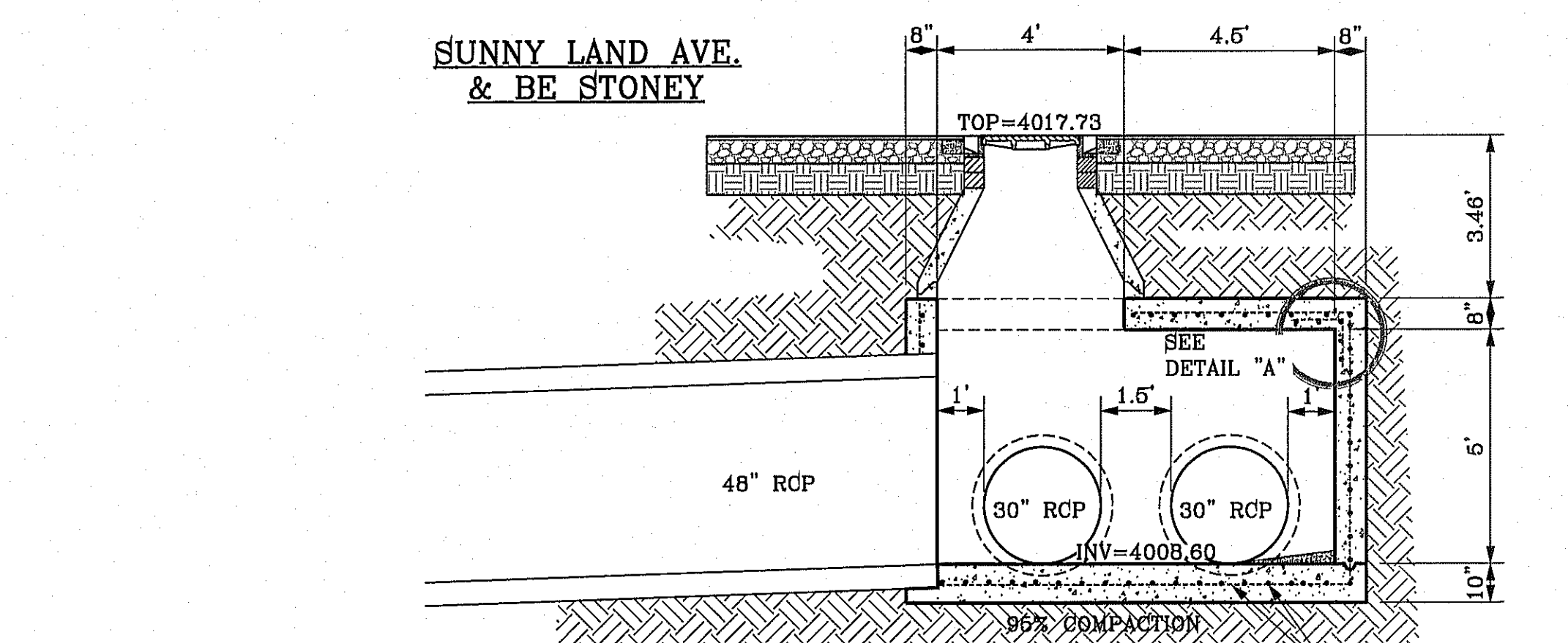
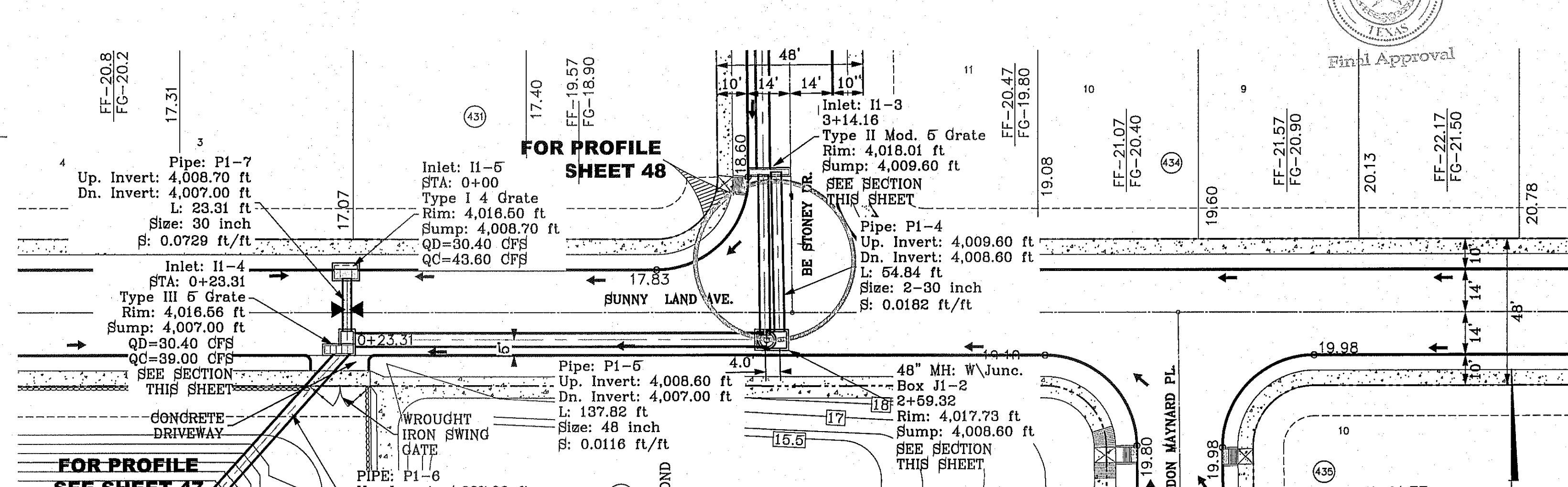
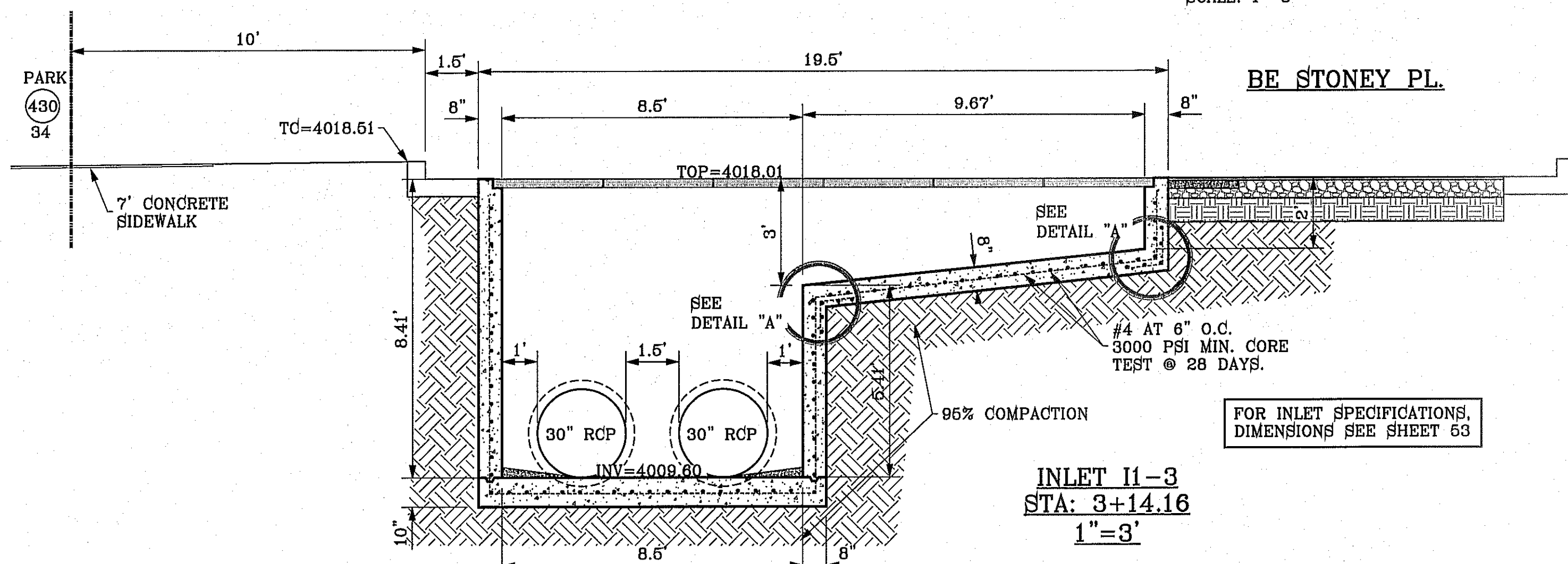
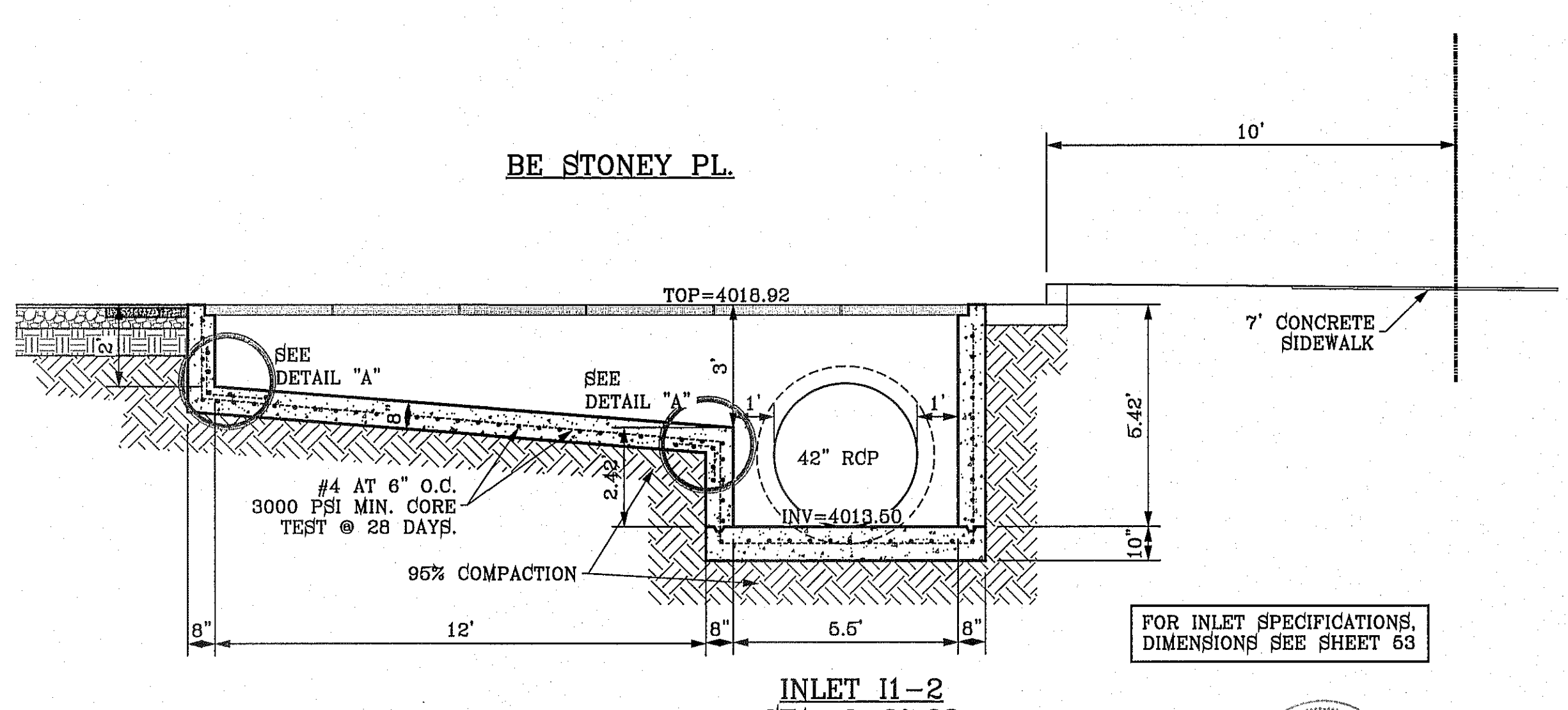
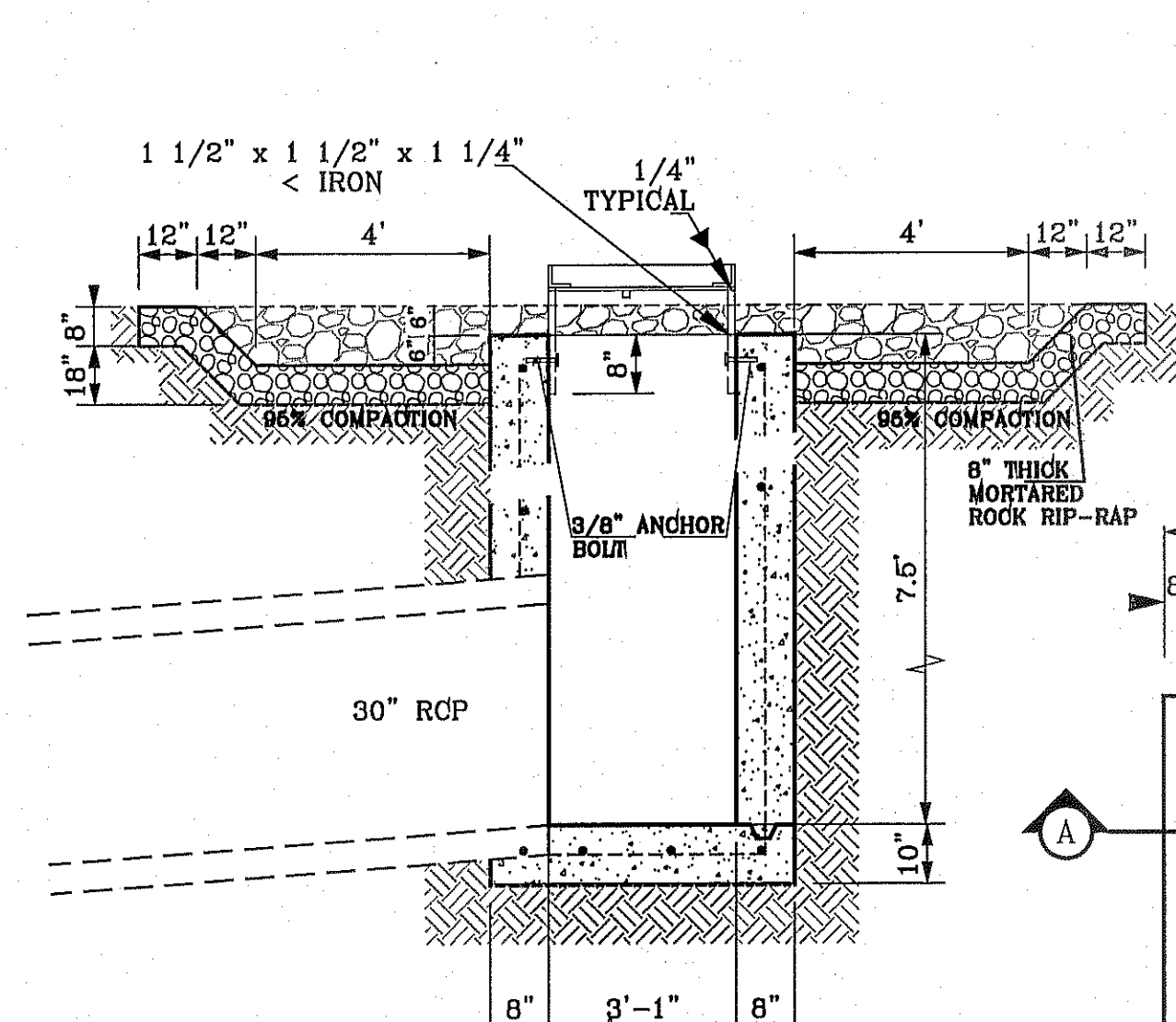
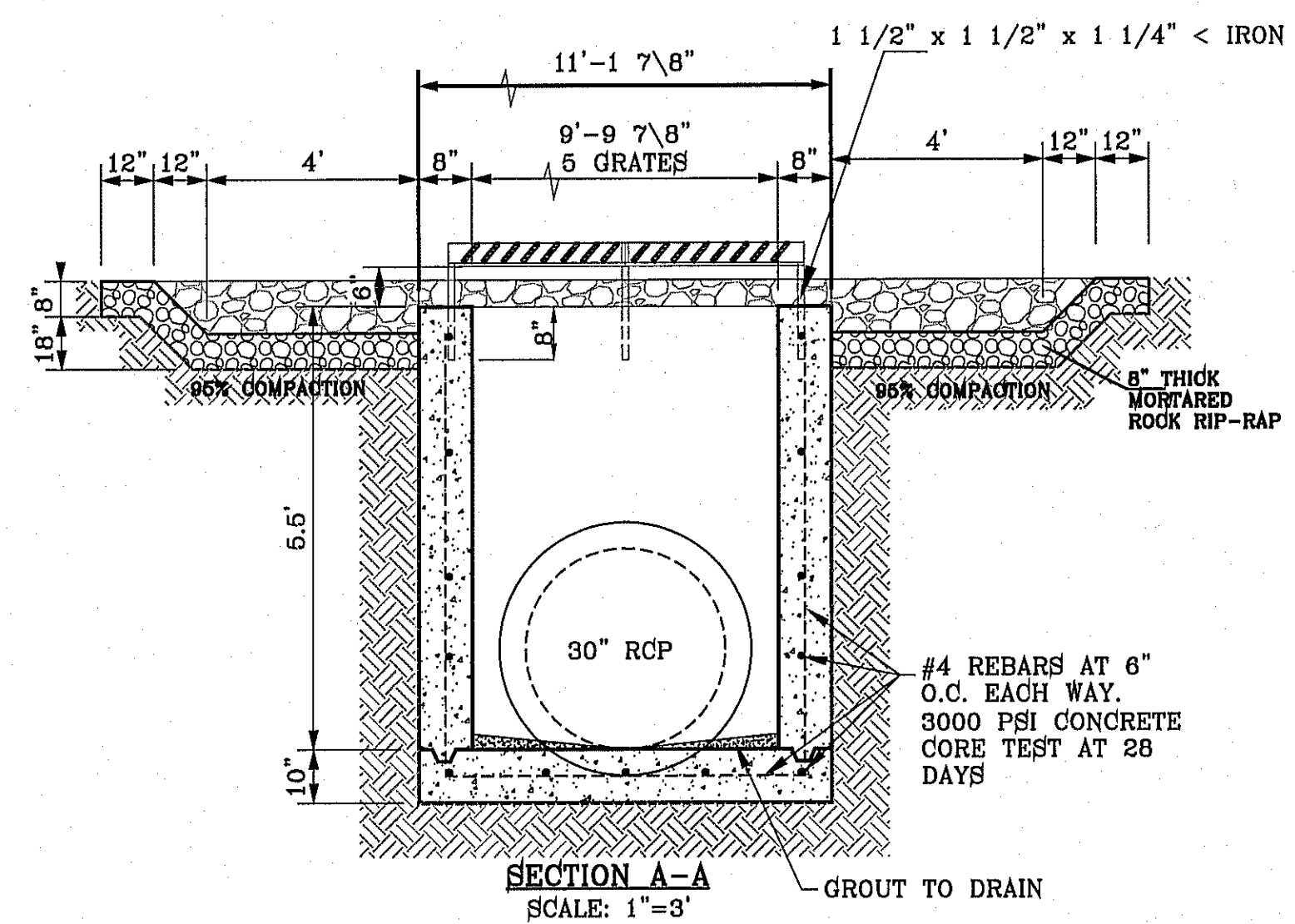
BRING PORTION OF SECTIONS 37 AND 48, BLOCK 79, TOWNSHIP 2, TEXAS AND PACIFIC RAILWAY CO. SURVEYS, CITY OF EL PASO, EL PASO COUNTY, TEXAS. CONTAINING: 97,551± ACRES

Final Approval

CONDE INC. SHEET TITLE

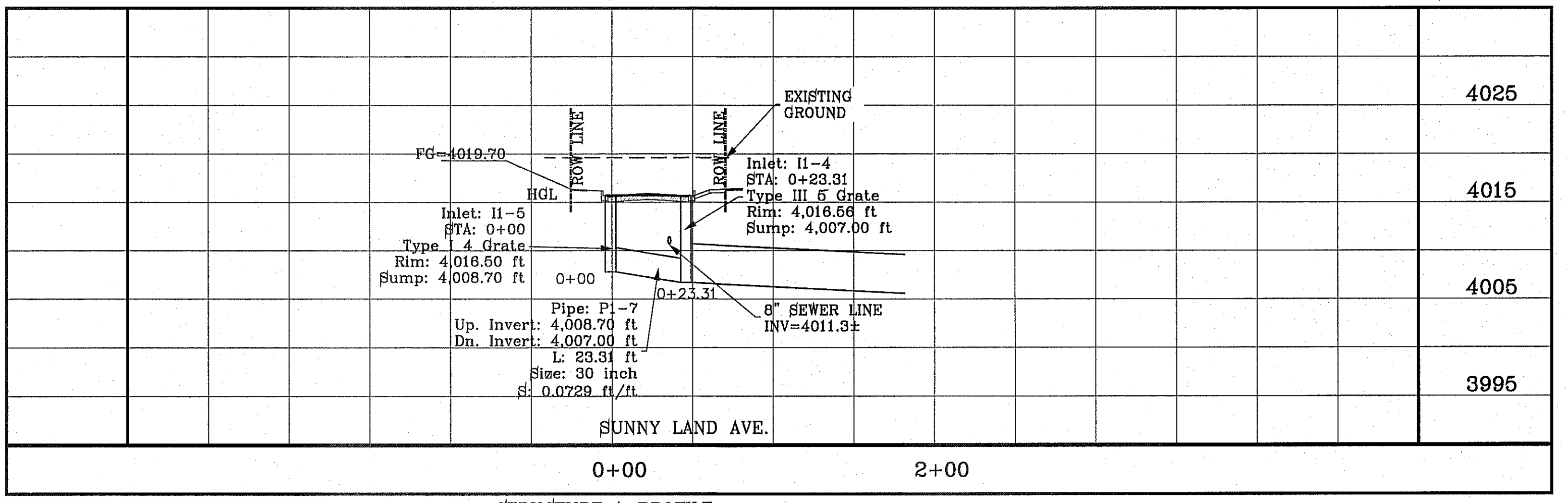
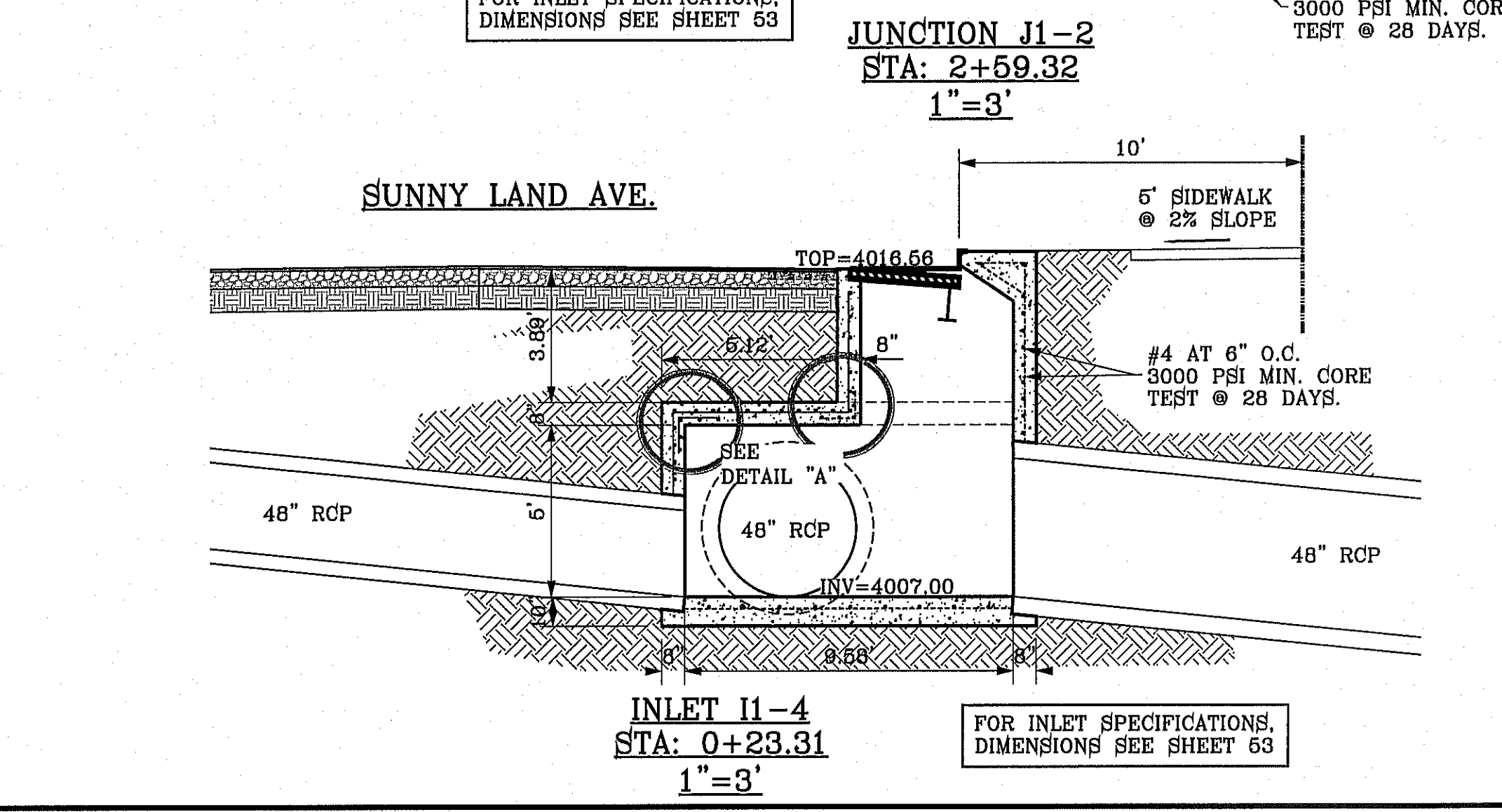
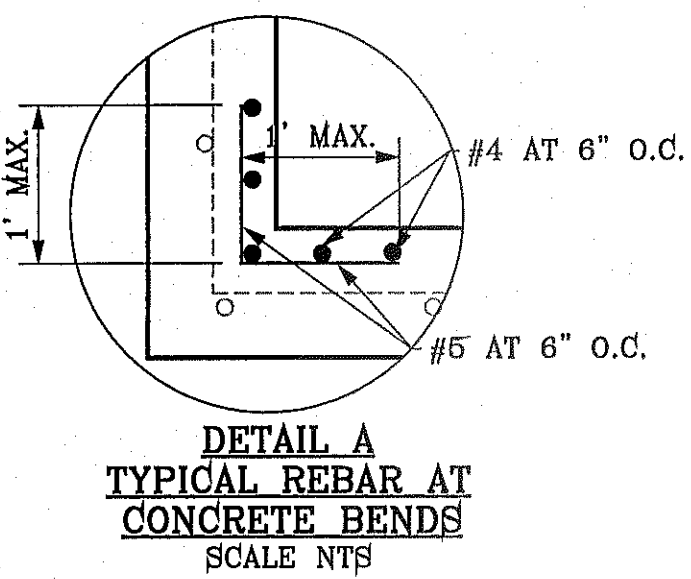
STRUCTURE No. 1 SHEET 1

SHT 48 OF 70



- 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.

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



PIPE	SECTION SIZE (in)	LENGTH (ft)	CONSTR UCTED SLOPE (ft/ft)	DISCHARGE (cfs)	CAPACITY (cfs)	AVERAGE VELOCITY (ft/s)	DOWN STREAM GROUND	DOWN STREAM HGL	DOWN STREAM INVERT	UPSTREAM GROUND	UPSTREAM HGL	UPSTREAM INVERT
P1-1	36	95.68	0.0086	30.00	61.74	4.24	18.92	18.92	13.50	19.82	19.11	14.32
P1-2	42	154.06	0.0104	65.12	102.53	6.77	19.09	18.66	11.90	18.92	18.92	13.50
P1-3	48	169.61	0.0136	65.12	167.26	5.18	18.01	18.01	9.60	19.09	18.36	11.90
P1-4	2-30	54.84	0.0182	93.66	110.77	9.54	17.73	17.73	8.60	18.01	18.01	9.60
P1-5	48	137.82	0.0116	93.66	154.76	7.45	16.56	16.56	7.00	17.73	17.15	8.60
P1-6	48	121.50	0.0658	154.46	368.57	12.29	5.00	16.30	99.00	16.56	16.56	7.00
P1-7	30	23.31	0.0729	30.40	110.76	6.19	16.56	16.56	7.00	16.56	16.69	8.70

INLET DATA					
INLET No.	INLET TYPE	No. GRATES	Qd cfs	Qc cfs	
II-1	OFFSTREET	3	30.00	38.52	
II-2	II Mod.	6	35.12	46.80	
II-3	II Mod.	5	28.54	39.00	
II-4	III	5	30.40	39.00	
II-5	I	4	30.40	43.60	

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

PROJECT NAME: TERRA DEL ESTE UNIT SEVENTY TWO

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

DATE: SEPT. 2013
DESIGN BY: Y.C.
INITIATED BY: R.O.
CHECKED BY: Y.C.
JOB NO.: 112-08

ENGINEER'S SEAL: [Seal]

CONDE INC. REGISTRATION No. F-2321

SHEET TITLE: STRUCTURE No.1 SHEET 2

SHT 49 OF 70

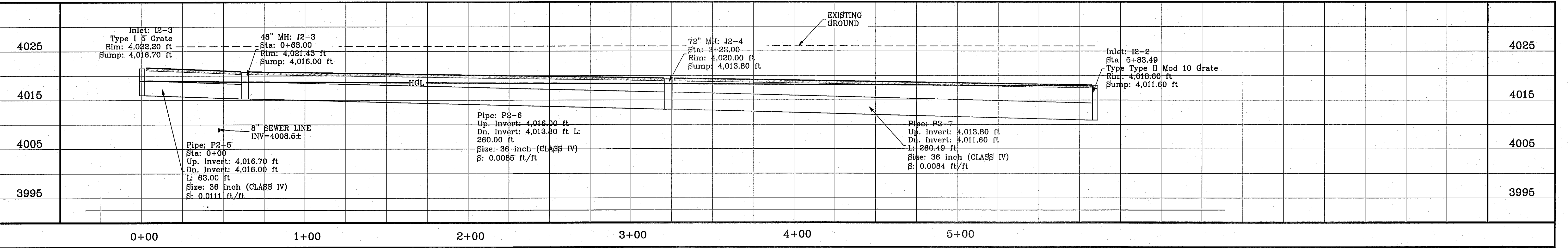
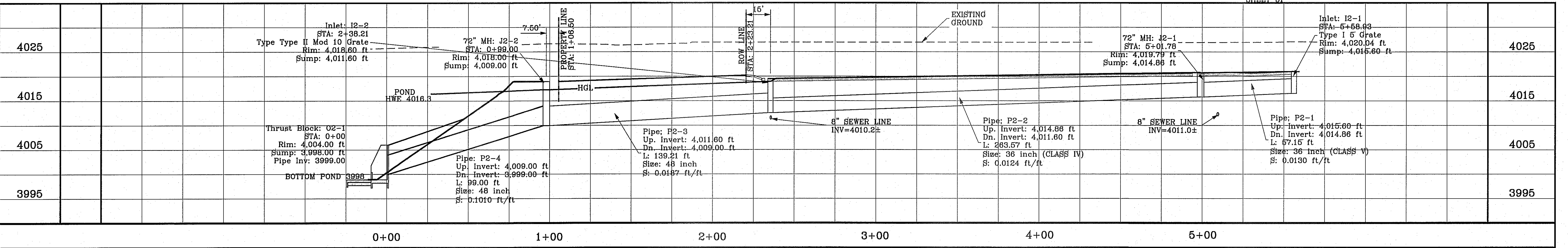
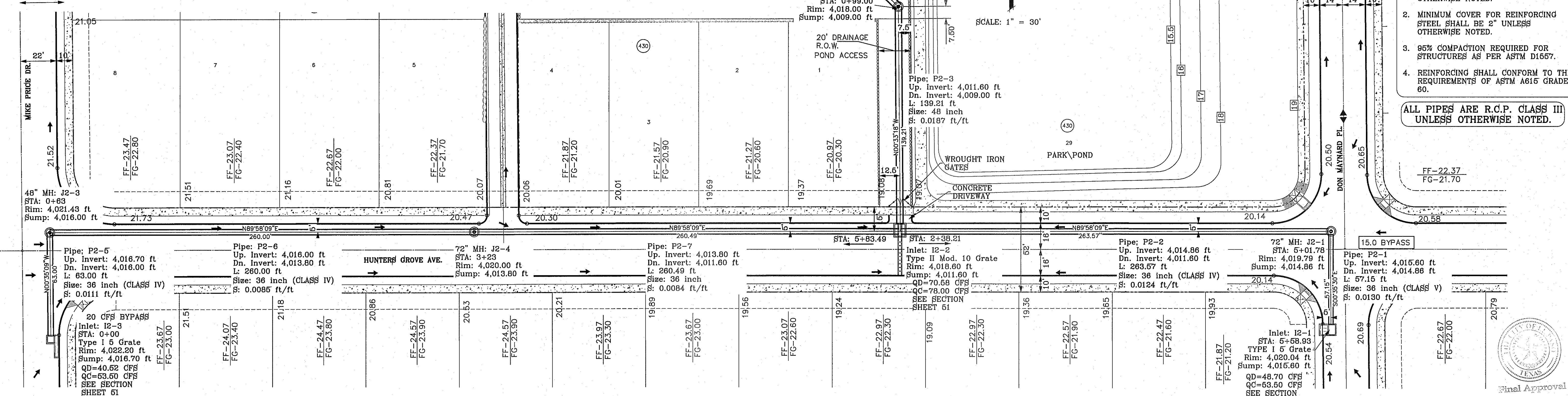
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PIPE	SECTION SIZE (in)	LENGTH (ft)	CONSTRUCTED SLOPE (ft/ft)	DISCHARGE (cfs)	CAPACITY (cfs)	AVERAGE VELOCITY (ft/s)	DOWN STREAM GROUND	DOWN STREAM HGL	DOWN STREAM INVERT	UPSTREAM GROUND	UPSTREAM HGL	UPSTREAM INVERT
P2-1	36	67.16	0.0130	48.70	78.03	6.89	19.79	19.79	14.86	20.04	20.04	16.60
P2-2	36	283.57	0.0124	48.70	74.14	6.89	18.60	18.60	11.60	19.79	19.79	14.86
P2-3	48	139.21	0.0187	169.80	196.30	12.72	18.00	16.73	9.00	18.60	18.60	11.60
P2-4	48	99.00	0.1010	169.80	468.50	12.72	4.00	16.30	99.00	18.00	17.53	9.00
P2-5	36	63.00	0.0111	40.52	70.30	5.73	21.43	20.52	16.00	22.20	20.75	16.70
P2-6	36	260.00	0.0085	40.52	61.35	5.73	20.00	19.58	13.80	21.43	20.52	16.00
P2-7	36	260.49	0.0084	40.52	61.29	5.73	18.60	18.60	11.60	20.00	19.58	13.80

INLET DATA				
INLET No.	INLET TYPE	No. GRATES	Qd cfs	Qc cfs
I2-1	I	6	48.70	63.50
I2-2	II Mod.	10	70.58	78.00
I2-3	I	6	40.52	63.50

CLOGGING FACTOR IS EQUAL TO 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.
 - 96% COMPACTION REQUIRED FOR STRUCTURES AS PER ASTM D1657.
 - REINFORCING SHALL CONFORM TO THE REQUIREMENTS OF ASTM A615 GRADE 60.
- ALL PIPES ARE R.C.P. CLASS III UNLESS OTHERWISE NOTED.



PROJECT NAME: **TERRA DEL ESTE UNIT SEVENTY TWO**
 CITY MONUMENT AT THE CENTERLINE INTERSECTION OF RALPH SEITZINGER DR. AND GALICENO PL. ELEVATION 4025.95 CITY DATUM
 BENCHMARK:
 BEING PORTION OF SECTIONS 37 AND 48, BLOCK 79, TOWNSHIP 2, TEXAS AND PACIFIC RAILWAY CO. SURVEYS, CITY OF EL PASO, EL PASO COUNTY, TEXAS. CONTAINING: 97,651± ACRES

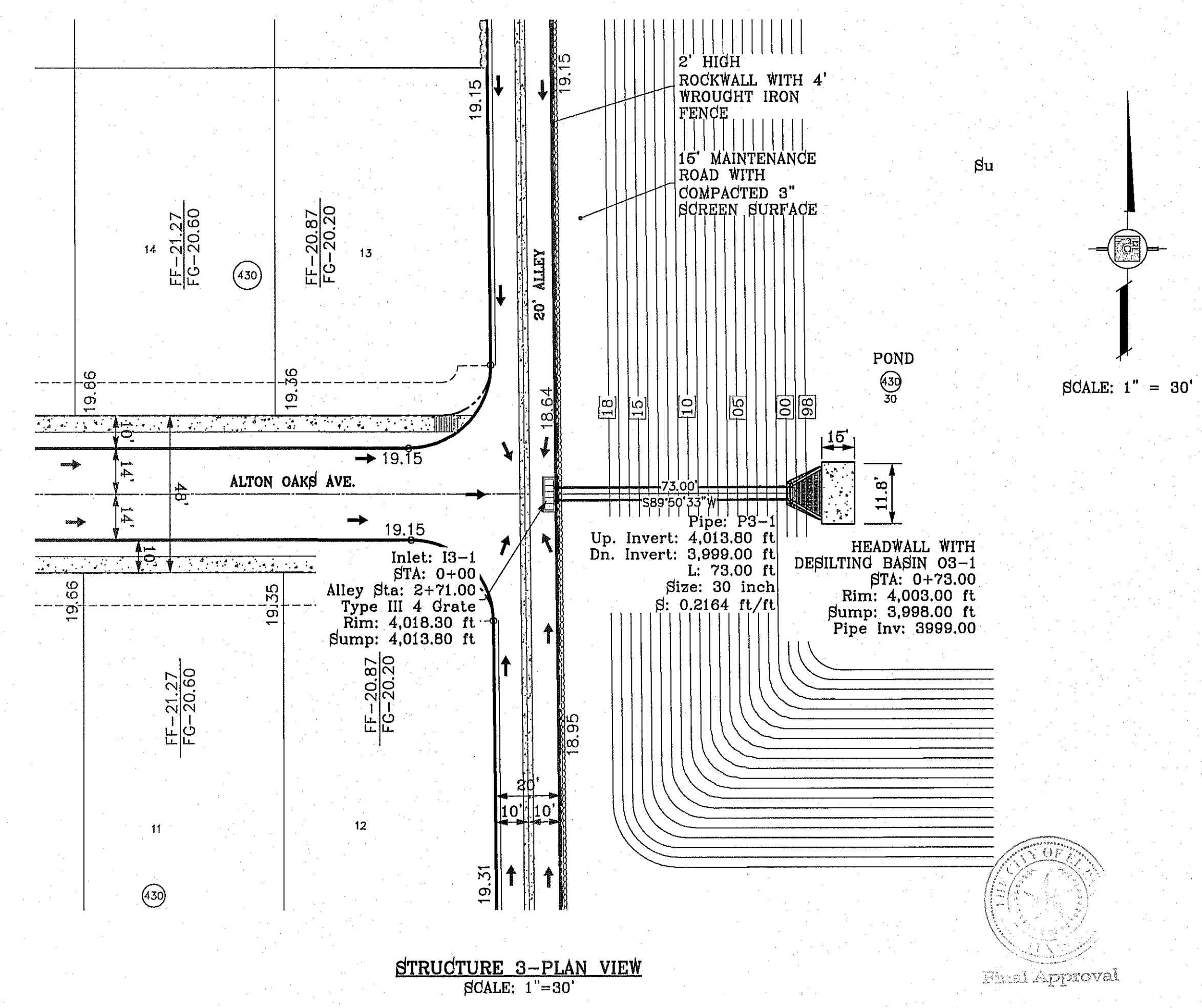
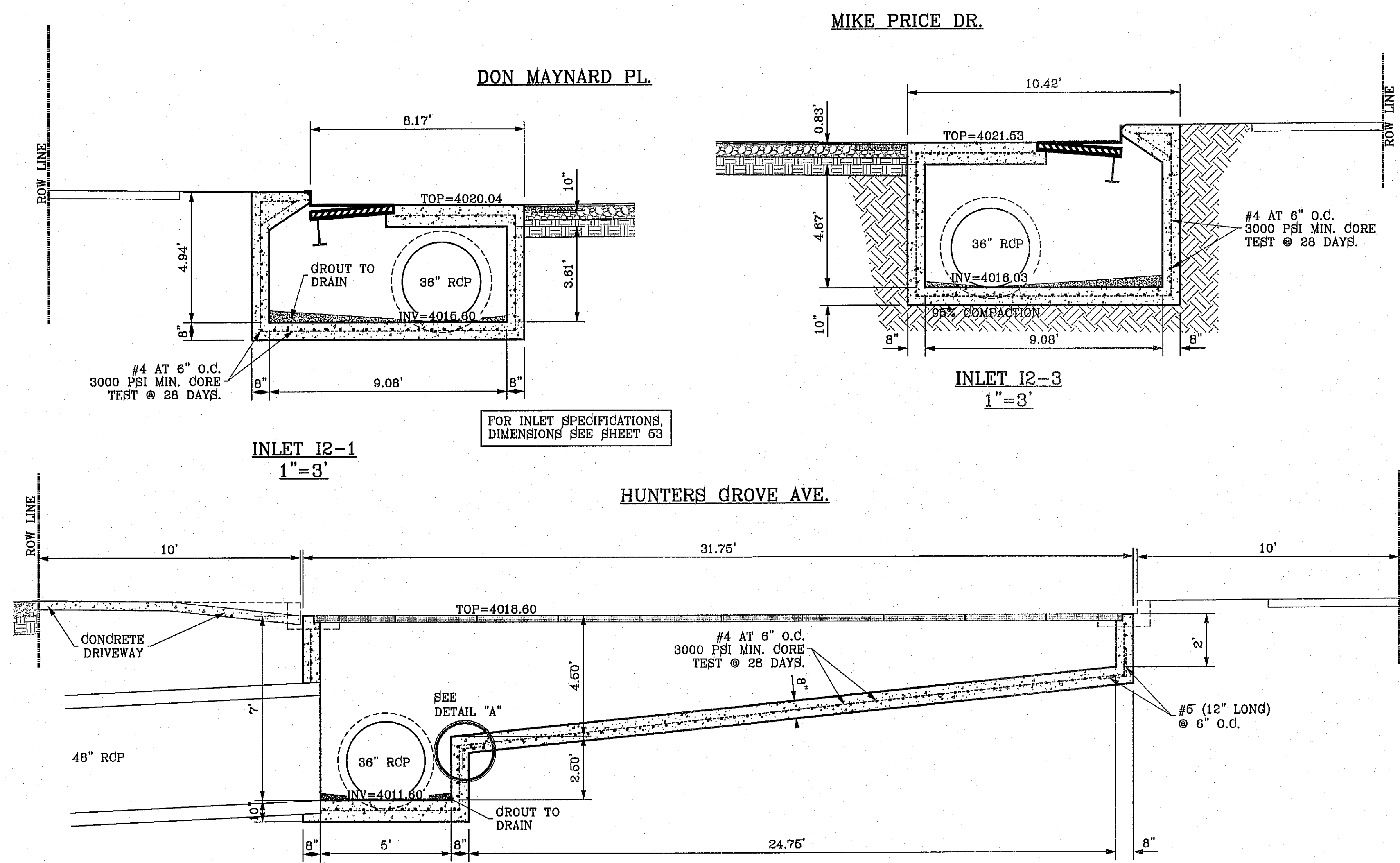
REVISIONS
 DATE: 10-28-2013 BY: R.O.
 12-7-2013 BY: R.O.
 1-13-2014 BY: R.O.

S C A L E
 HORIZ: 1" = 30'
 VERT: 1" = 10'
 DATE: SEPT. 2013
 DESIGN BY: Y.C.
 INITIATED BY: R.O.
 CHECKED BY: Y.C.
 JOB NO.: 112-08

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 No. 2
 SHT 50 OF 70

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INLET 12-1
1"=3'

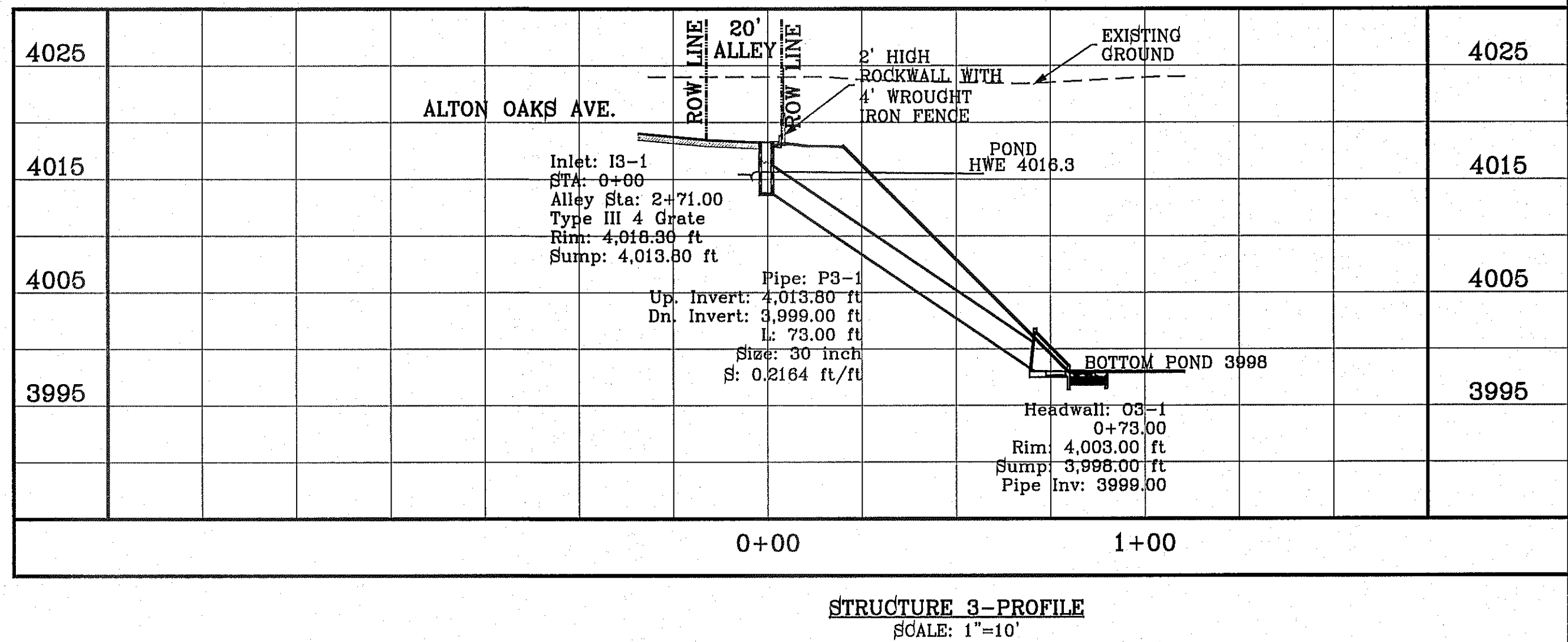
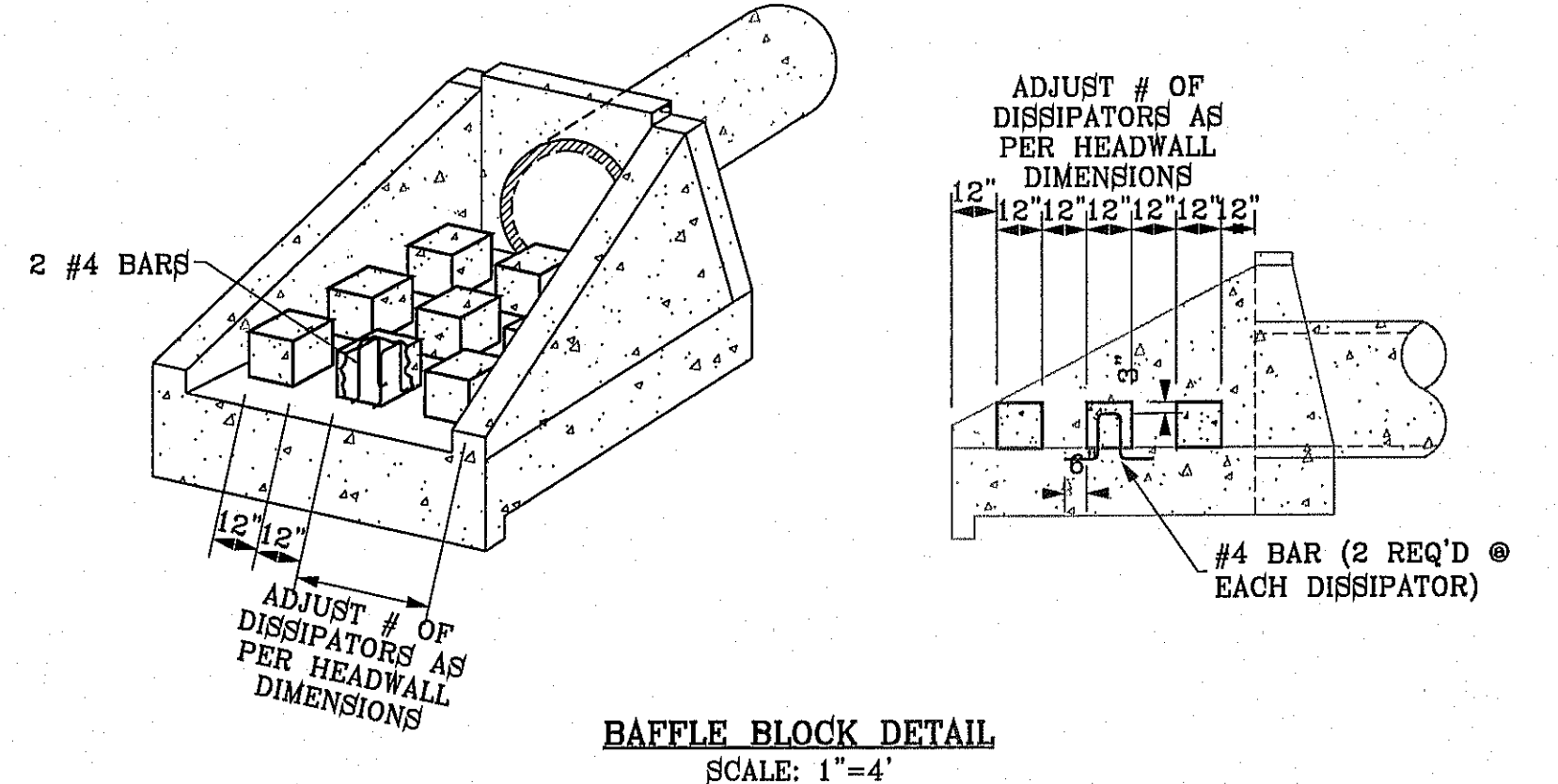
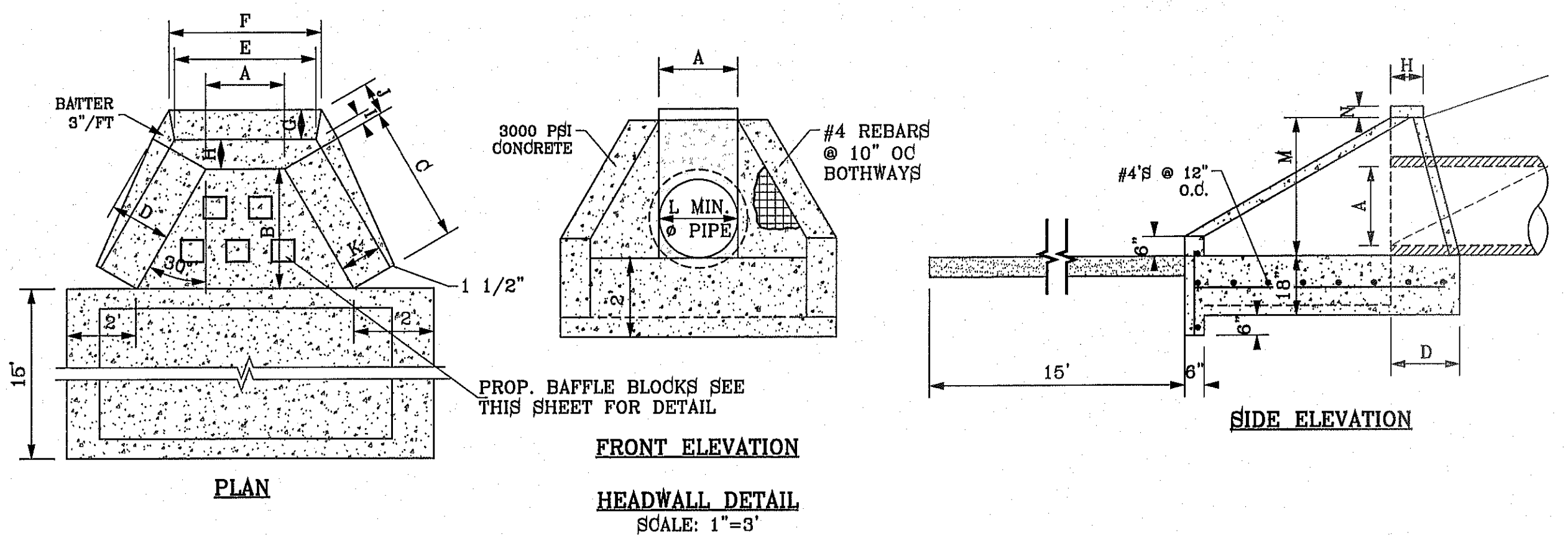
INLET 12-2
1"=3'

INLET 12-3
1"=3'

FOR INLET SPECIFICATIONS, DIMENSIONS SEE SHEET 63

DIMENSIONS FOR HEADWALLS W/ WINGWALL

DIA. OF PIPE	a	b	c	d	e	f	g	h	i	j	k	l (Min.)	m	n
30"	30"	48"	4' 7"	19"	3' 4"	4' 4"	10"	10"	6"	11"	10"	3"	3' 6"	6"



PIPE	SECTION SIZE (in)	LENGTH (ft)	CONSTRUCTED SLOPE (ft/ft)	DISCHARGE (cfs)	CAPACITY (cfs)	AVERAGE VELOCITY (ft/s)	DOWN STREAM GROUND	DOWN STREAM HGL	DOWN STREAM INVERT	UPSTREAM GROUND	UPSTREAM HGL	UPSTREAM INVERT
P3-1	30	73.00	0.2164	23.68	190.81	5.84	4003.00	4016.30	3999.00	4018.30	4016.46	4013.80

INLET DATA

INLET No.	INLET TYPE	No. GRATES	Qd cfs	Qc cfs
13-1	III	4	23.68	31.60

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

- 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.

PROJECT NAME: TERRA DEL ESTE UNIT SEVENTY TWO

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

DATE: SEPT. 2013

DESIGN BY: Y.C.

INITIATED BY: R.O.

CHECKED BY: Y.C.

JOB NO.: 112-08

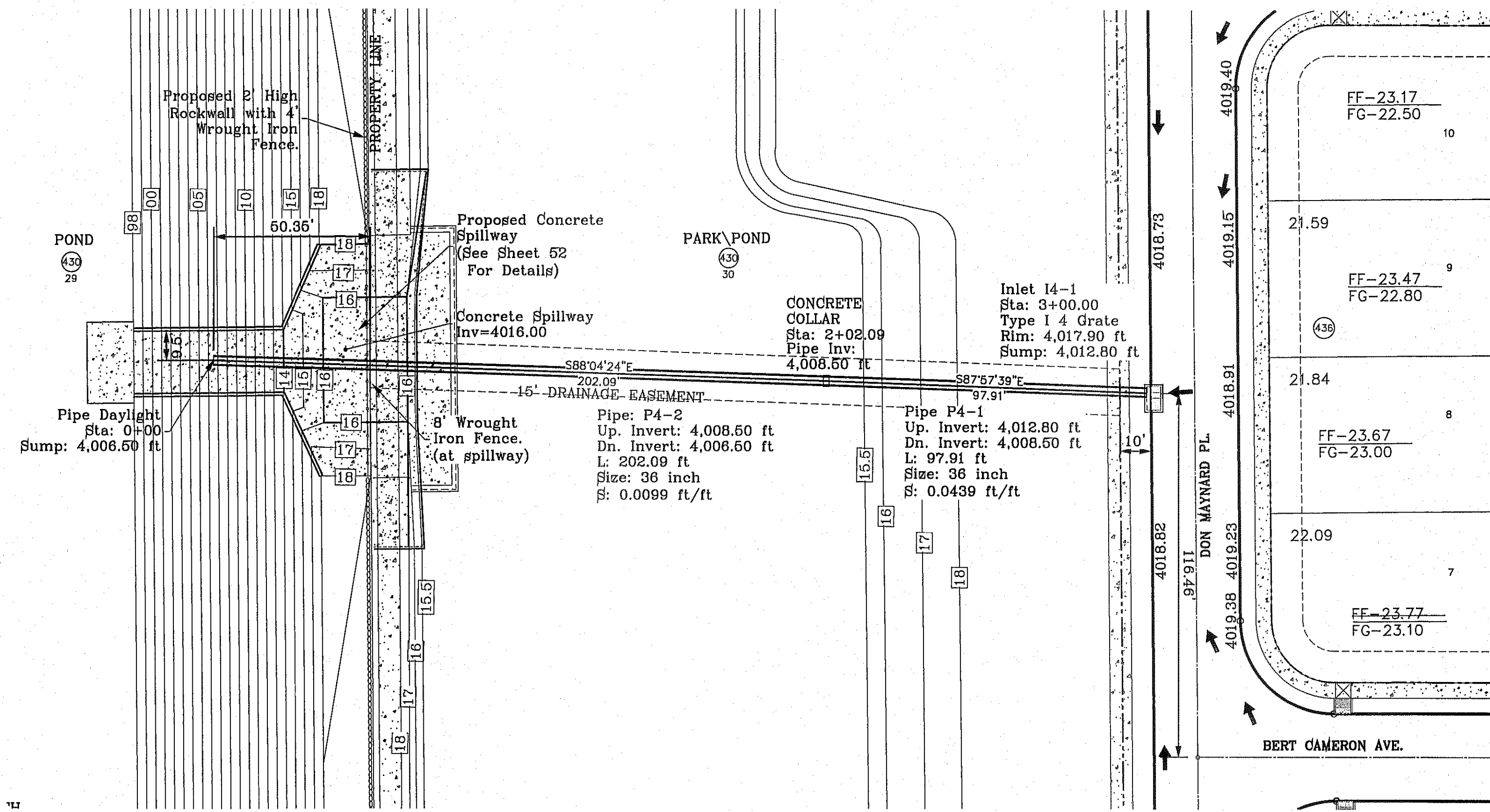
CONDE INC. ENGINEERING / PLANNING SURVEYING / GPS
 6030 SURETY DR. STE 100
 EL PASO, TEXAS 79905
 PHONE: (915) 592-0283
 FAX: (915) 592-0286

REGISTRATION NO. F-2321

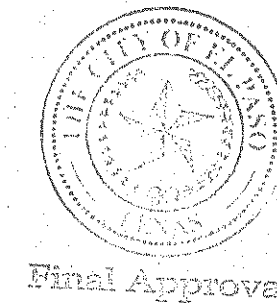
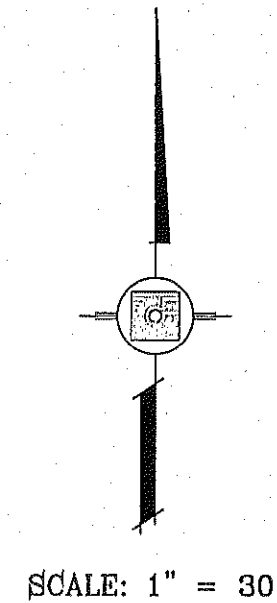
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SHT 51 OF 70

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STRUCTURE 4-PLAN VIEW
SCALE: 1"=30'

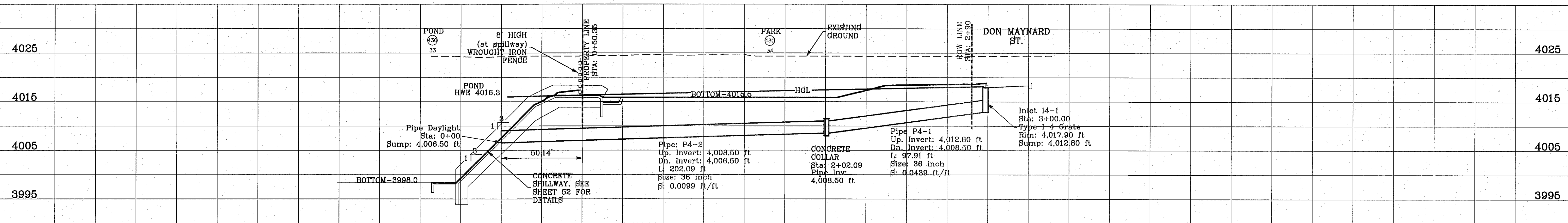


BENCHMARK
CITY MONUMENT AT THE CENTERLINE INTERSECTION OF
RALPH SEWINGERS ST. AND CALLETA PL.
ELEVATION 4025.93 CITY DATUM

DATE	REVISIONS	BY
10-28-2013	1st CITY REDLINES	R.O.
12-7-2013	3:1 POND SLOPES	R.O.
1-13-2014	3rd CITY REDLINES misc	R.O.
12-2-2014	REVISED PIPE SIZE FROM 30 TO 36	R.O.

PROJECT NAME
**TERRA DEL ESTE
UNIT SEVENTY TWO**

BEING PORTION OF SECTIONS 37 AND 48, BLOCK 79,
TOWNSHIP 2, RANGE 10 AND PACIFIC RAILWAY CO. SURVEYS,
CITY OF EL PASO, EL PASO COUNTY, TEXAS
CONTAINING: 97.851 ± ACRES



STRUCTURE 3--PROFILE
SCALE: 1"=10'

- 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.

PIPE	SECTION SIZE (in)	LENGTH (ft)	CONSTRUCTED SLOPE (ft/ft)	DISCHARGE (cfs)	CAPACITY (cfs)	AVERAGE VELOCITY (ft/s)	DOWN STREAM GROUND	DOWN STREAM HGL	DOWN STREAM INVERT	UPSTREAM GROUND	UPSTREAM HGL	UPSTREAM INVERT
P4-1	36	97.91	0.0439	34.83	139.77	4.93	12.00	17.95	8.50	17.90	17.62	12.80
P4-2	36	202.09	0.0099	34.83	66.35	4.93	7.00	16.30	6.50	12.00	16.85	8.50

INLET DATA

INLET No.	INLET TYPE	No. GRATES	Qd cfs	Qc cfs
14-1	I	4	34.83	43.60

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

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

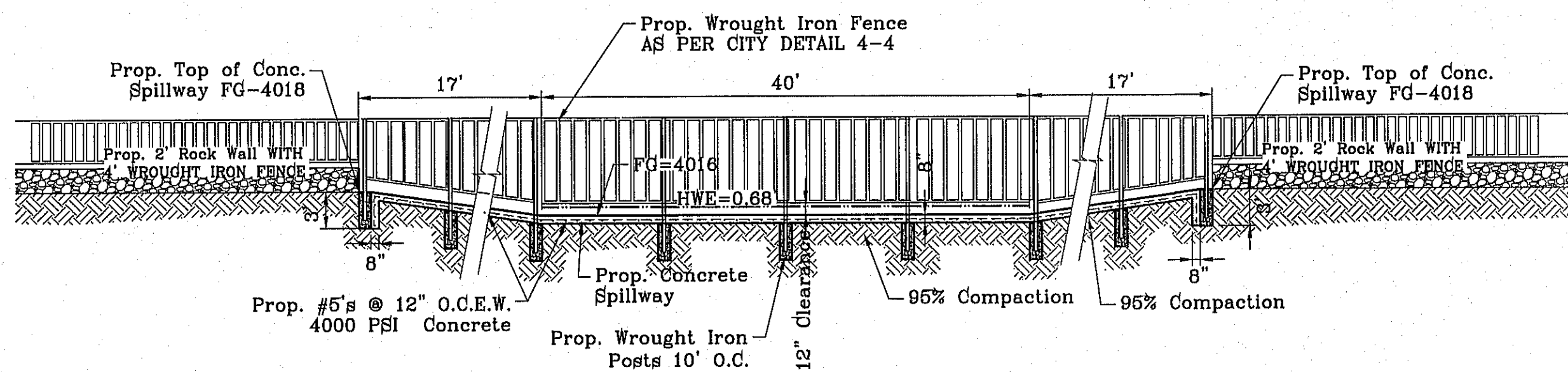
DATE: SEPT. 2013
DESIGN BY: Y.C.
INITIATED BY: R.O.
CHECKED BY: Y.C.
JOB NO.: 112-08

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

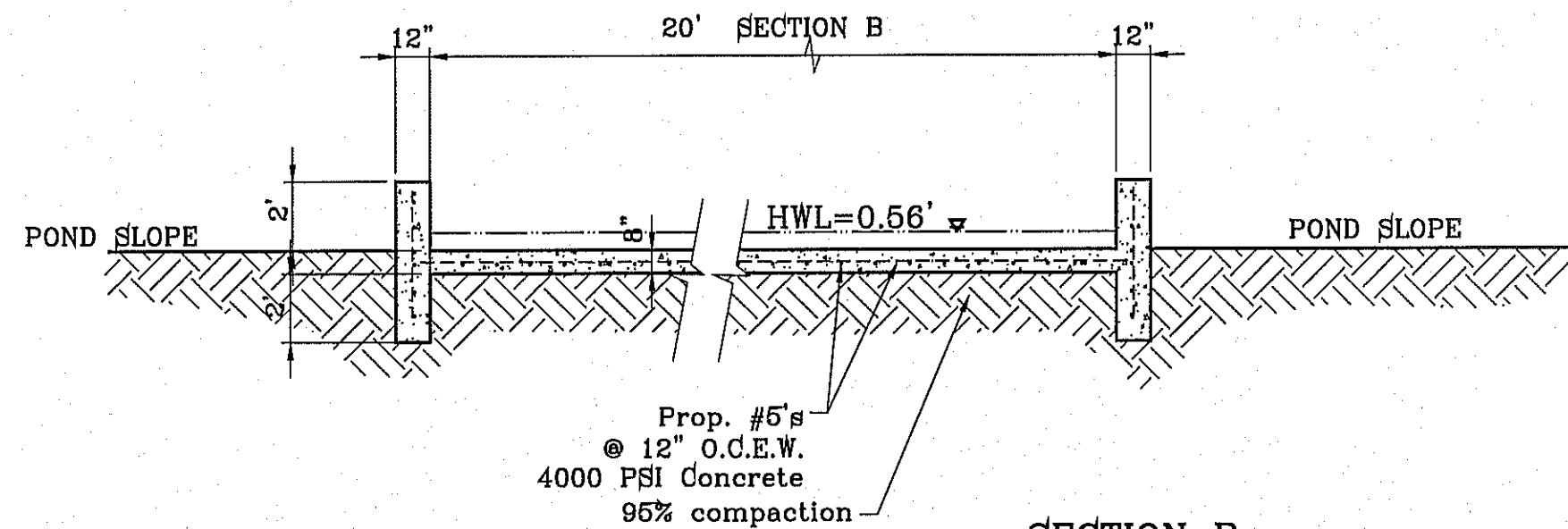


SHEET TITLE

**STRUCTURE
NO. 4**



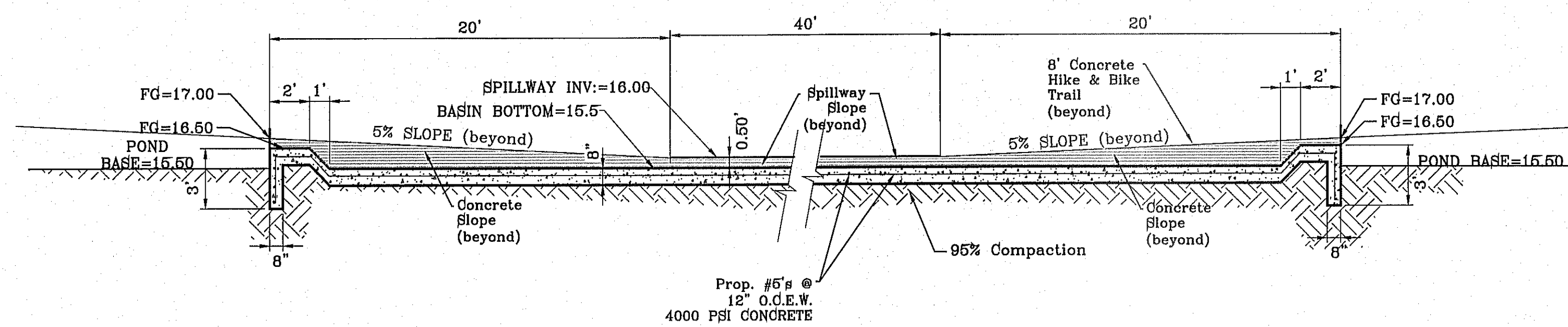
SECTION A
1"=10'



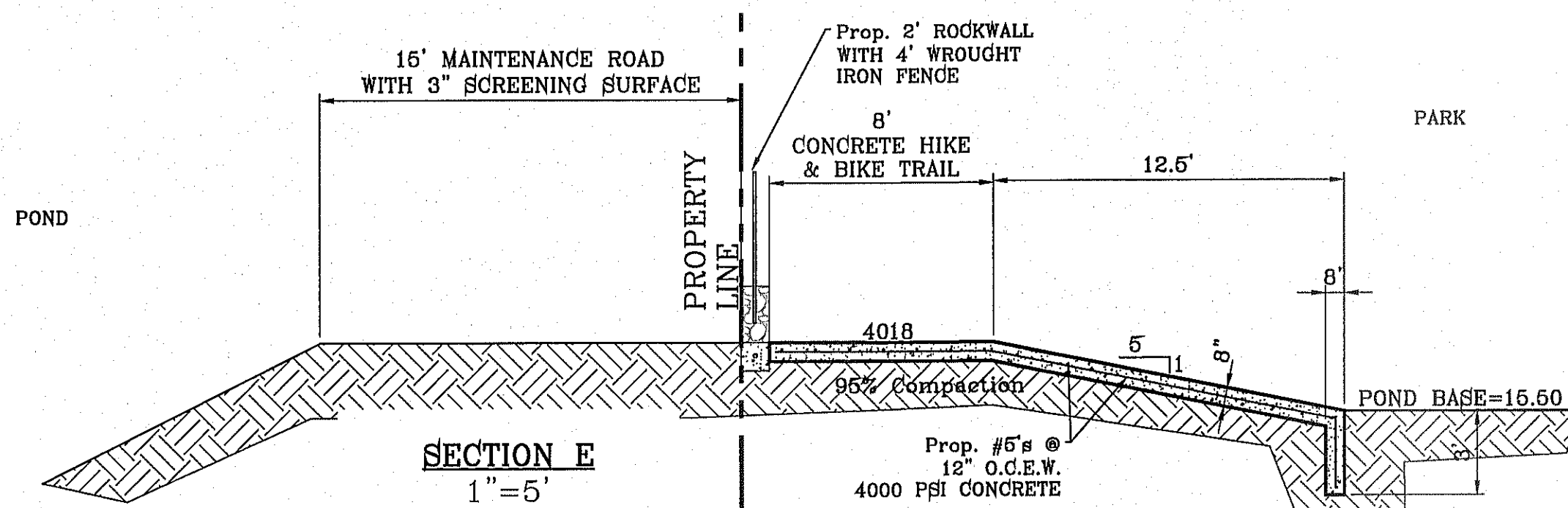
SECTION B
1"=5'

PROPOSED SPILLWAY
5:1 SLOPE @ 24'

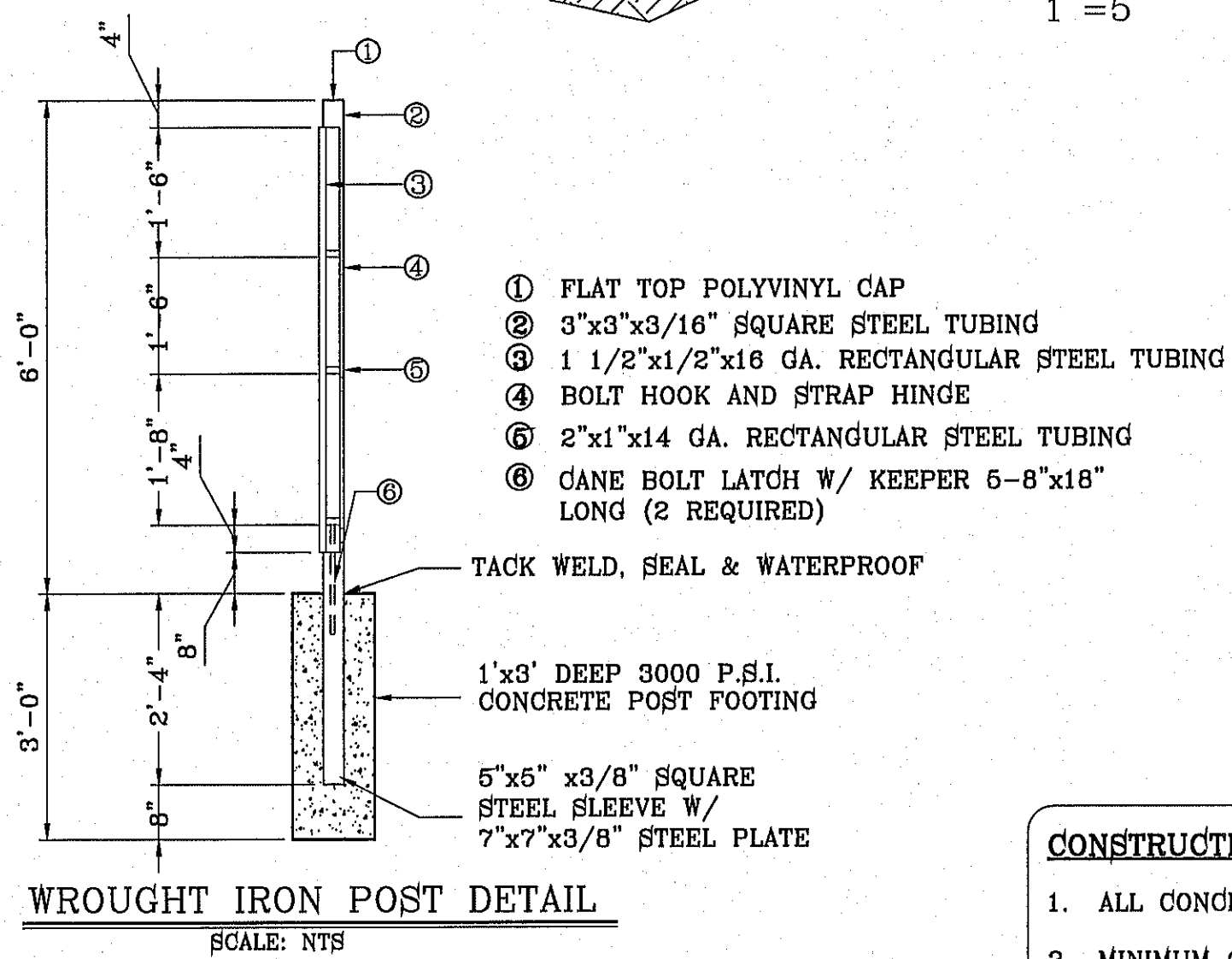
Qd:.....376 cfs
Qc:.....839 CFS
Velocity:.....33.6 fps
Depth:.....0.66 ft.
Slope:.....0.20 ft/ft
Width:.....20 ft.



SECTION C
STILLING BASIN
1"=5'

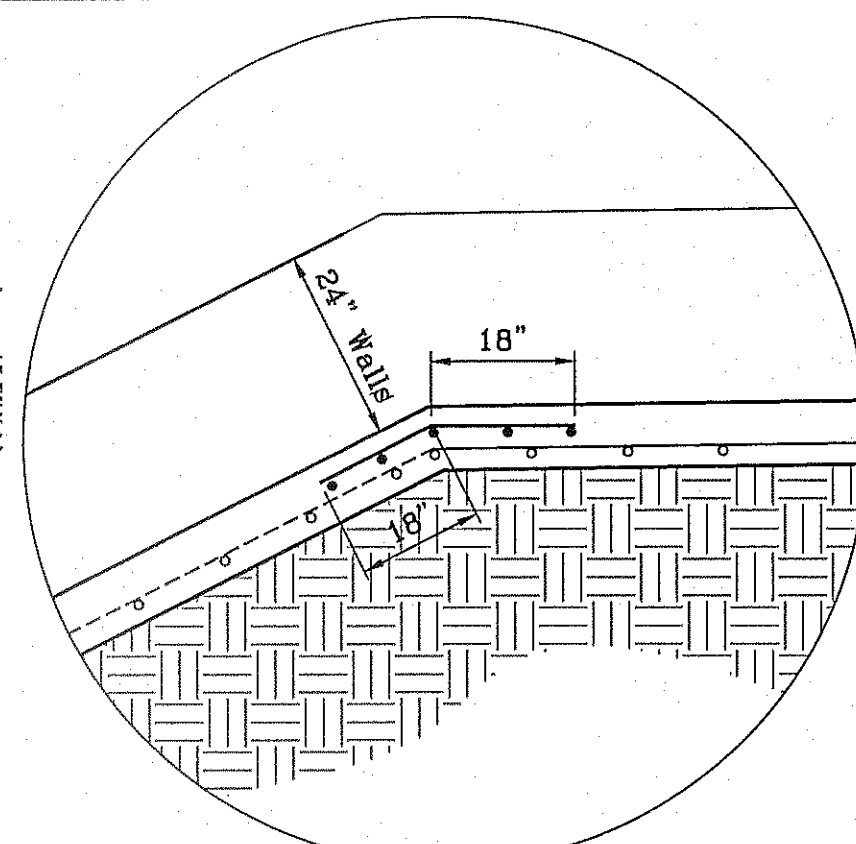


SECTION E
1"=5'

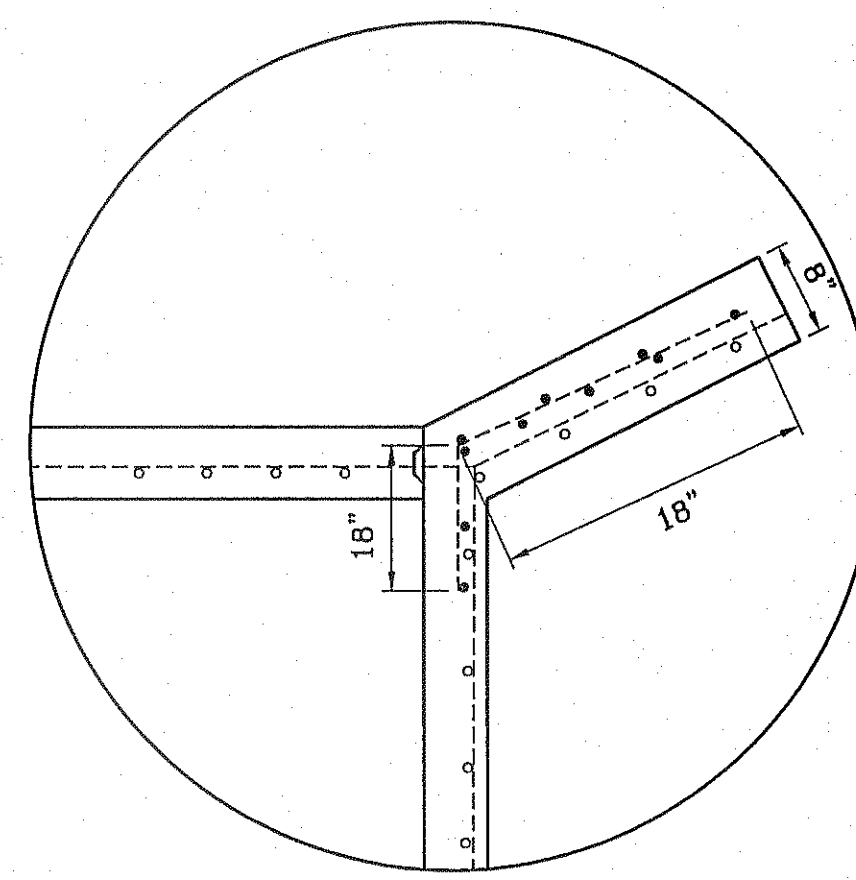


WROUGHT IRON POST DETAIL
SCALE: NTS

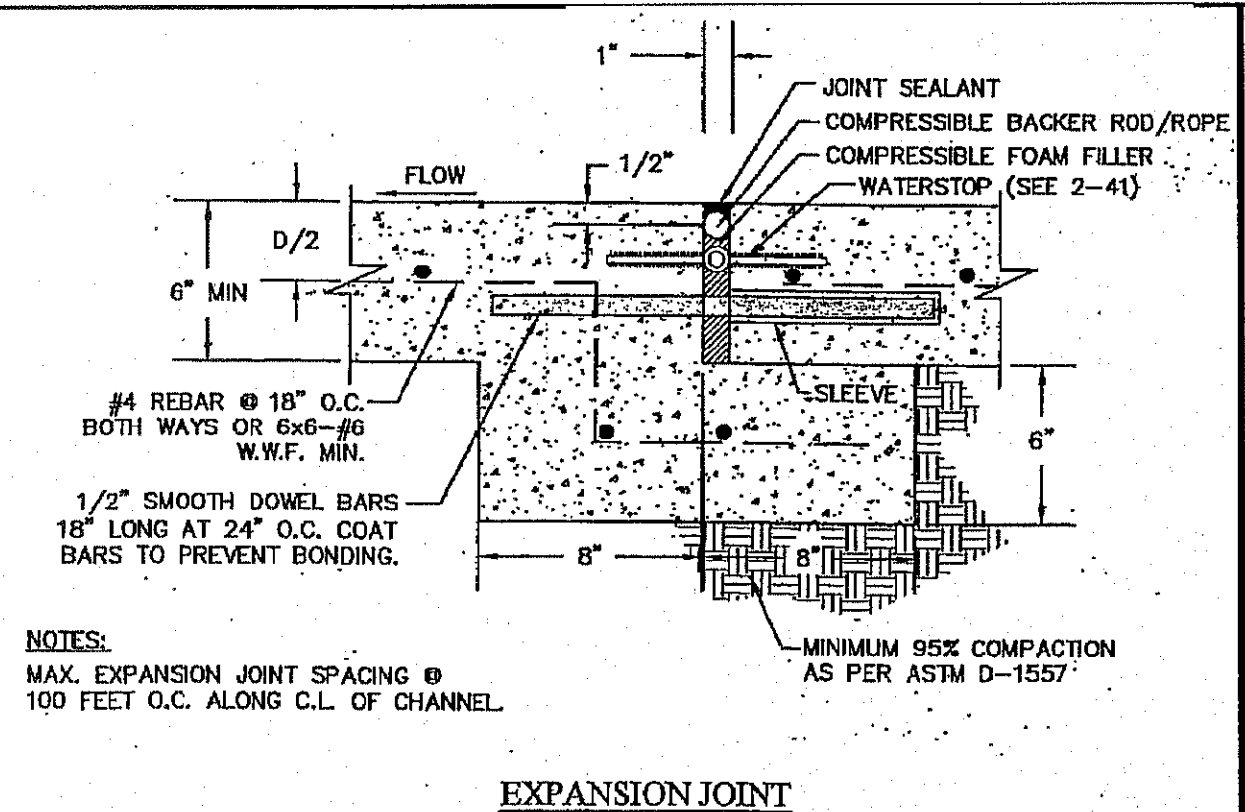
- CONSTRUCTION NOTES:**
- ALL CONCRETE FOR STRUCTURES SHALL BE 4000 PSI.
 - MINIMUM COVER FOR REINFORCING STEEL SHALL BE 2" UNLESS OTHERWISE NOTED.
 - 96% COMPACTION REQUIRED FOR STRUCTURES AS PER ASTM D1557.
 - REINFORCING SHALL CONFORM TO THE REQUIREMENTS OF ASTM A616 GRADE 60.



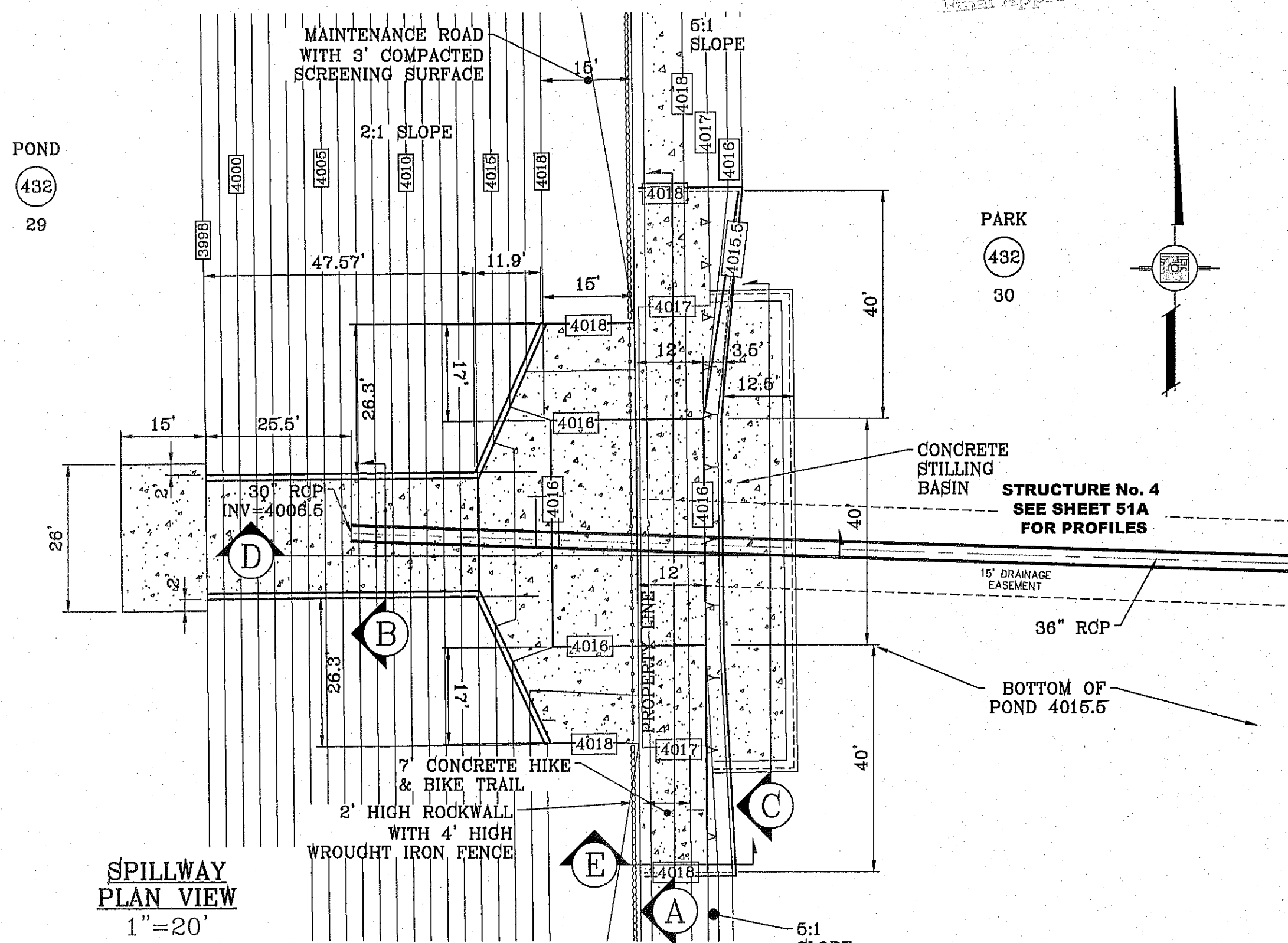
DETAIL A
REBAR REINFORCEMENT
NTS



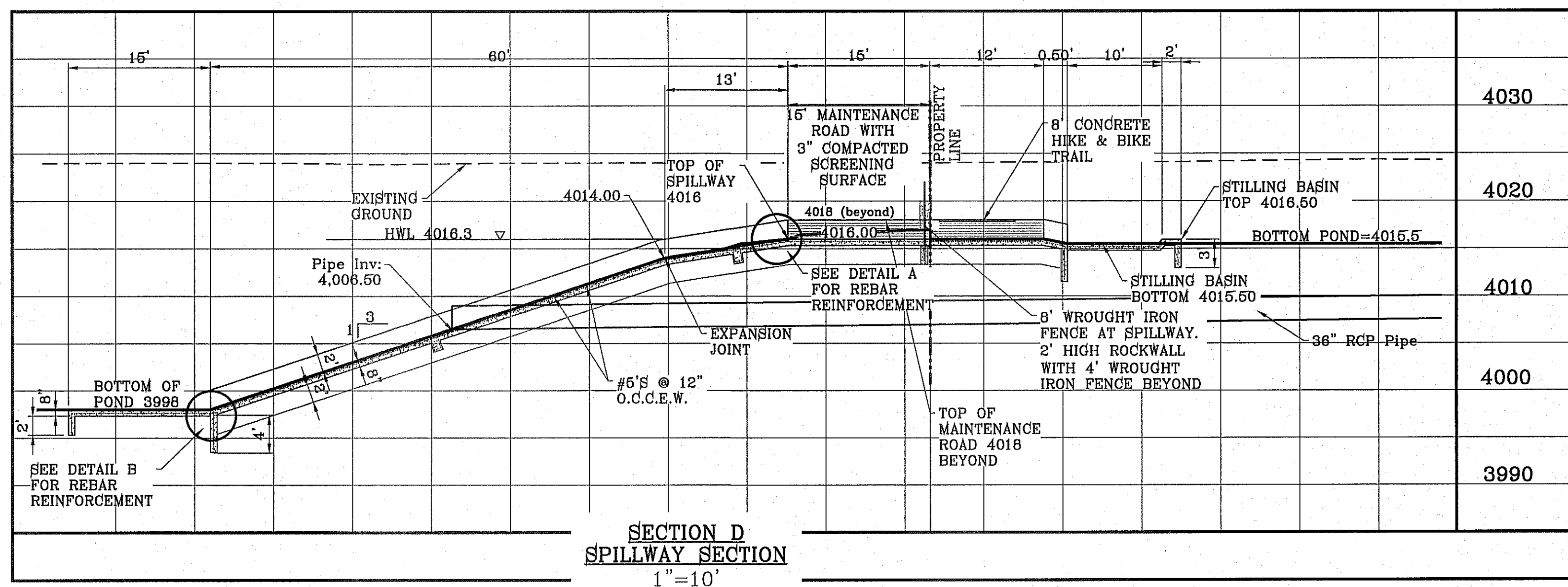
DETAIL B
REBAR REINFORCEMENT
NTS



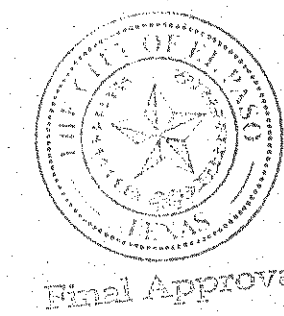
EXPANSION JOINT



SPILLWAY
PLAN VIEW
1"=20'



SECTION D
SPILLWAY SECTION
1"=10'



BENCHMARK

CITY MONUMENT AT THE CENTERLINE INTERSECTION OF RALPH SEAFRINGER DR. AND GALICENO PL. ELEVATION 4025.93 CITY DATUM

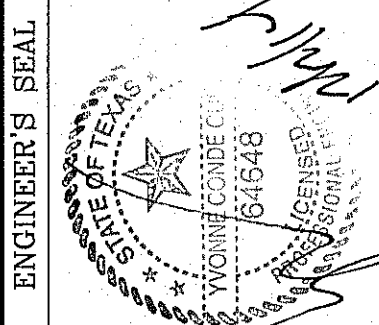
DATE	REVISIONS	BY
10-29-2013	REVISED SPILLWAY TO PARK GRADES	R.O.
1-13-2014	3-4 CITY REDLINES misc	R.O.
12-2-2014	REVISED 30" RCP T 36"	R.O.

PROJECT NAME
**TERRA DEL ESTE
UNIT SEVENTY TWO**

BRING PORTION OF SECTIONS 37 AND 48, BLOCK 70, TOWNSHIP 2, TEXAS AND PARKWAY CO. SURVEYS, CITY OF EL PASO, COUNTY, TEXAS CONTAINING: 97,650 ± ACRES

SCALE
HORIZ: 1" = 20'
VERT: 1" = 10'

DATE: SEPT. 2013
DESIGN BY: Y.C.
INITIATED BY: R.O.
CHECKED BY: Y.C.
JOB NO.: 112-08

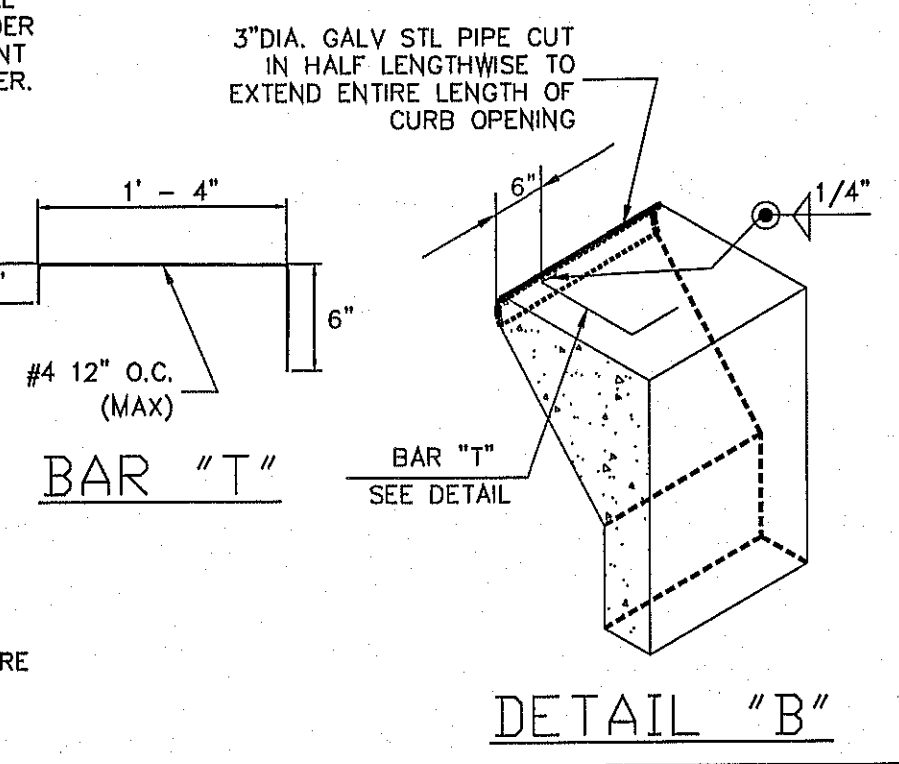
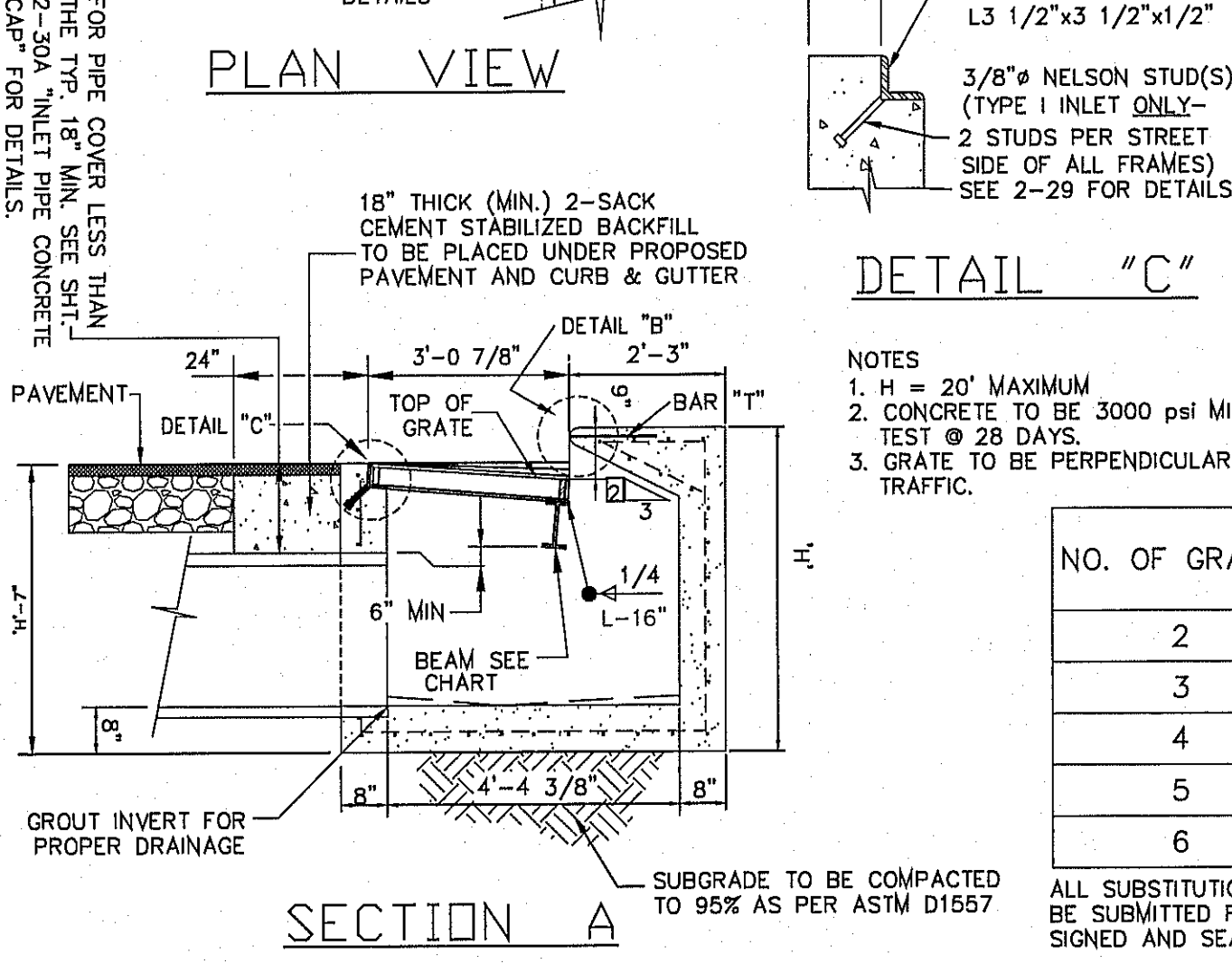
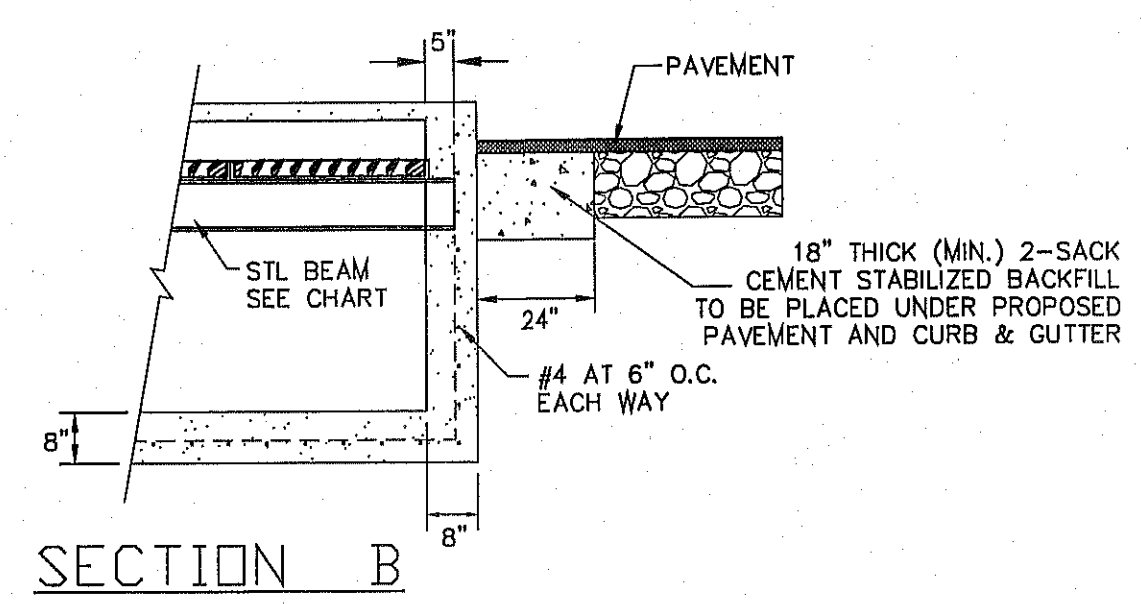
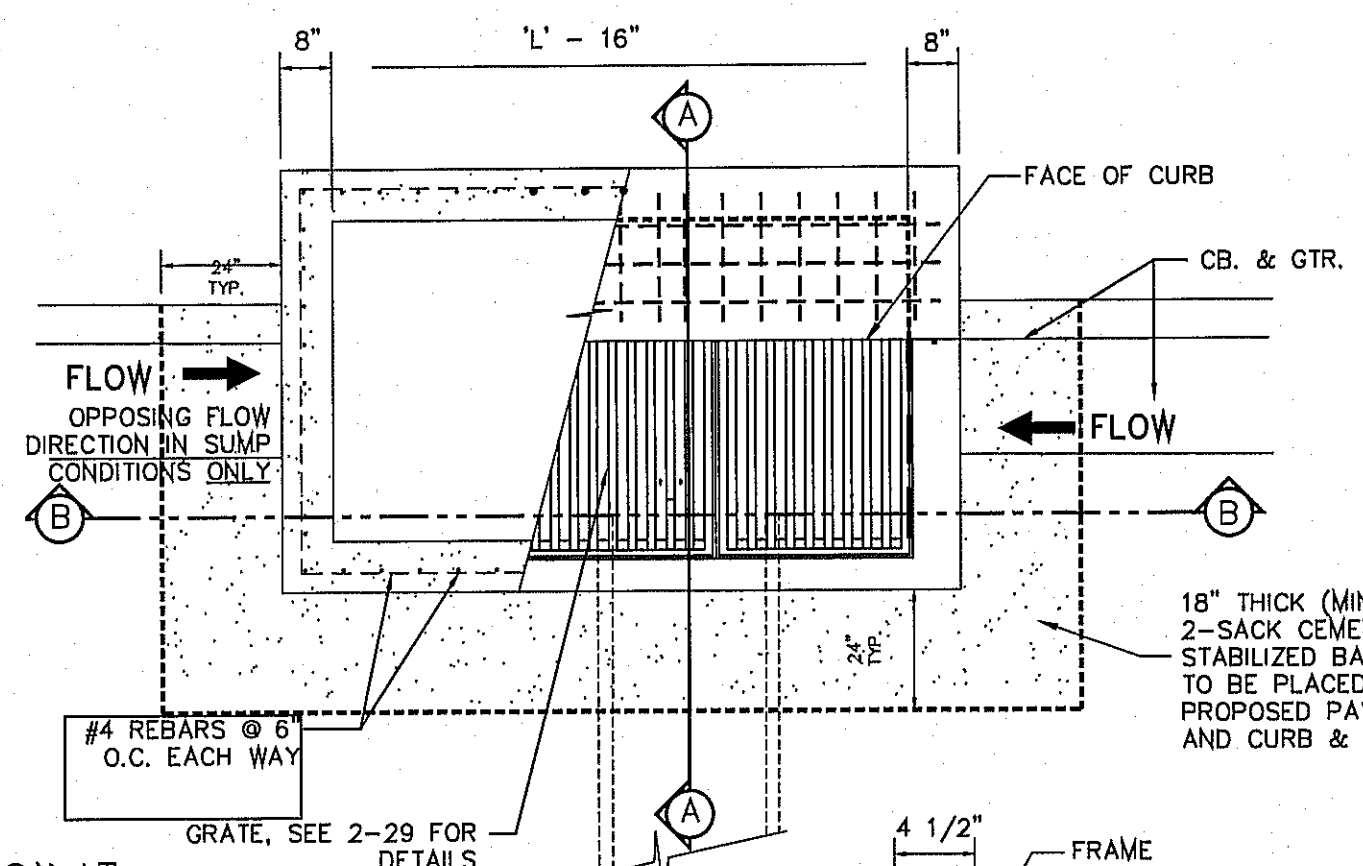


CONDE INC.
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SHEET TITLE
SPILLWAY

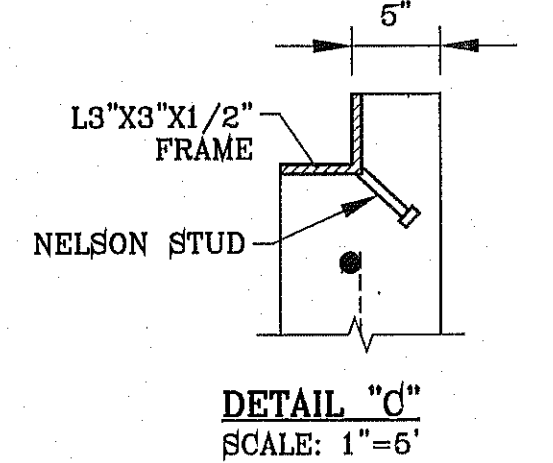
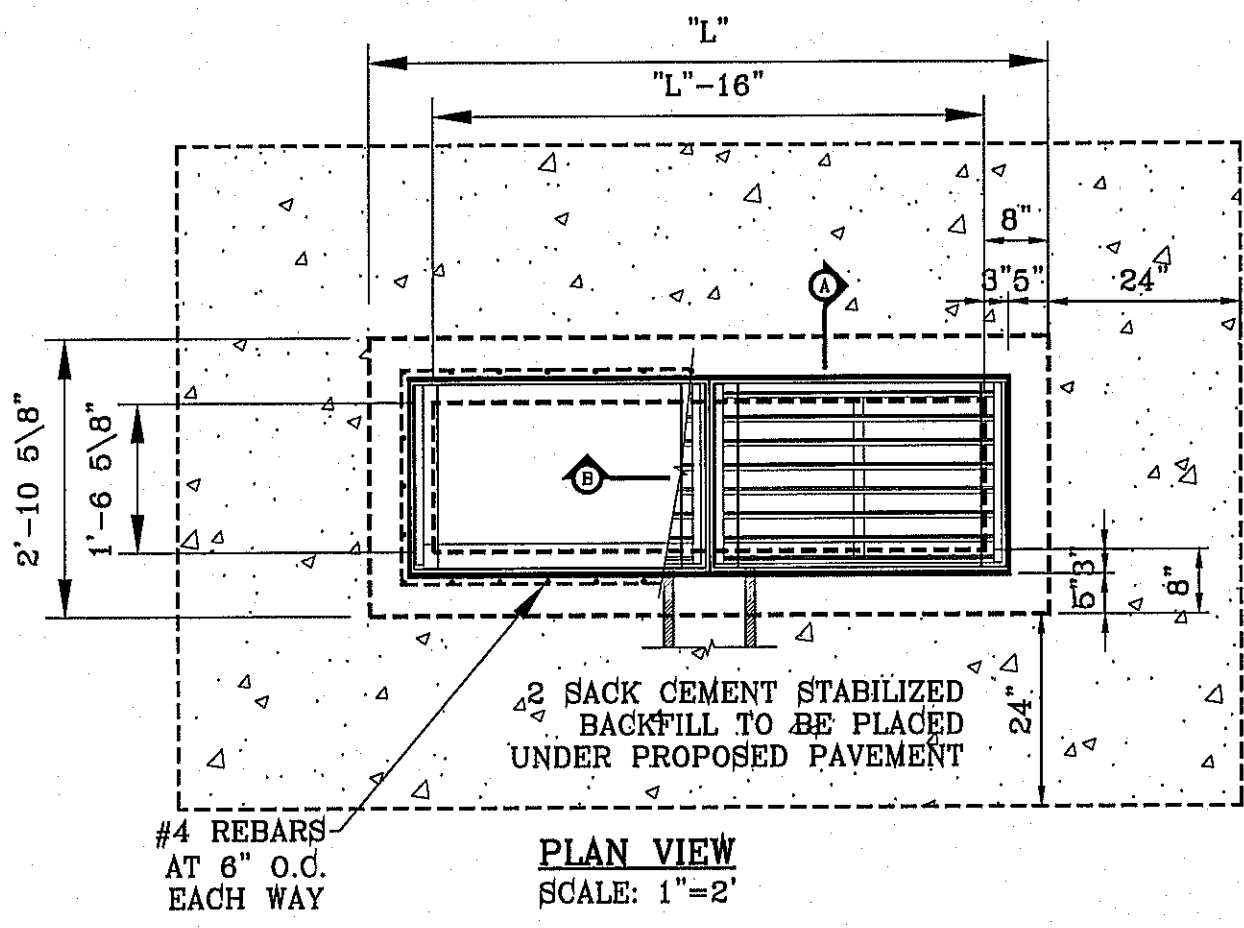
SHT 52 OF 70



NO. OF GRATES	L'	BEAM	
		LENGTH	MINIMUM SIZES
2	5'-2 1/4"	4'-8 1/4"	W6X12, S6X12.5, MC6X15.1
3	7'-1 7/8"	6'-7 7/8"	W8X15, S7X18.4, MC7X19.1
4	9'-1 1/2"	8'-7 1/2"	W10X19, S8X18.4, MC10X22
5	11'-1 1/8"	10'-7 1/8"	W12X16, S8X23, MC10X22
6	13'-0 3/4"	12'-6 3/4"	W12X19, S8X23, MC10X25

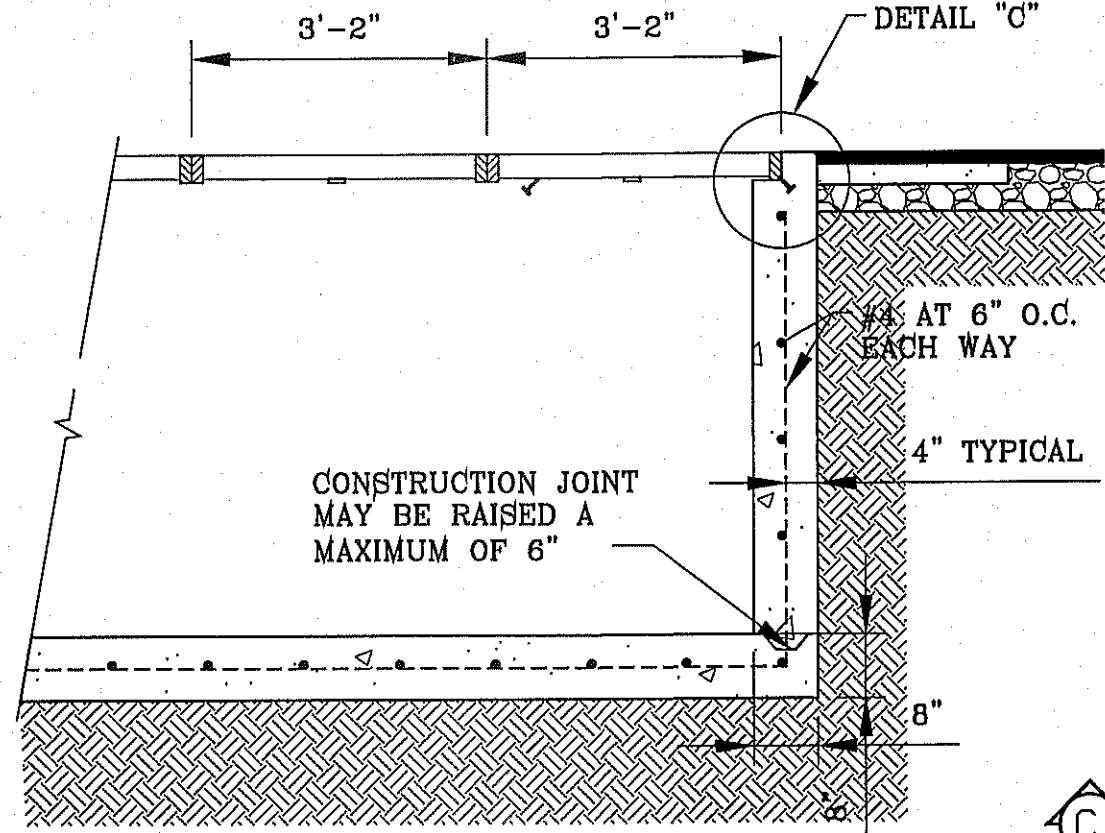
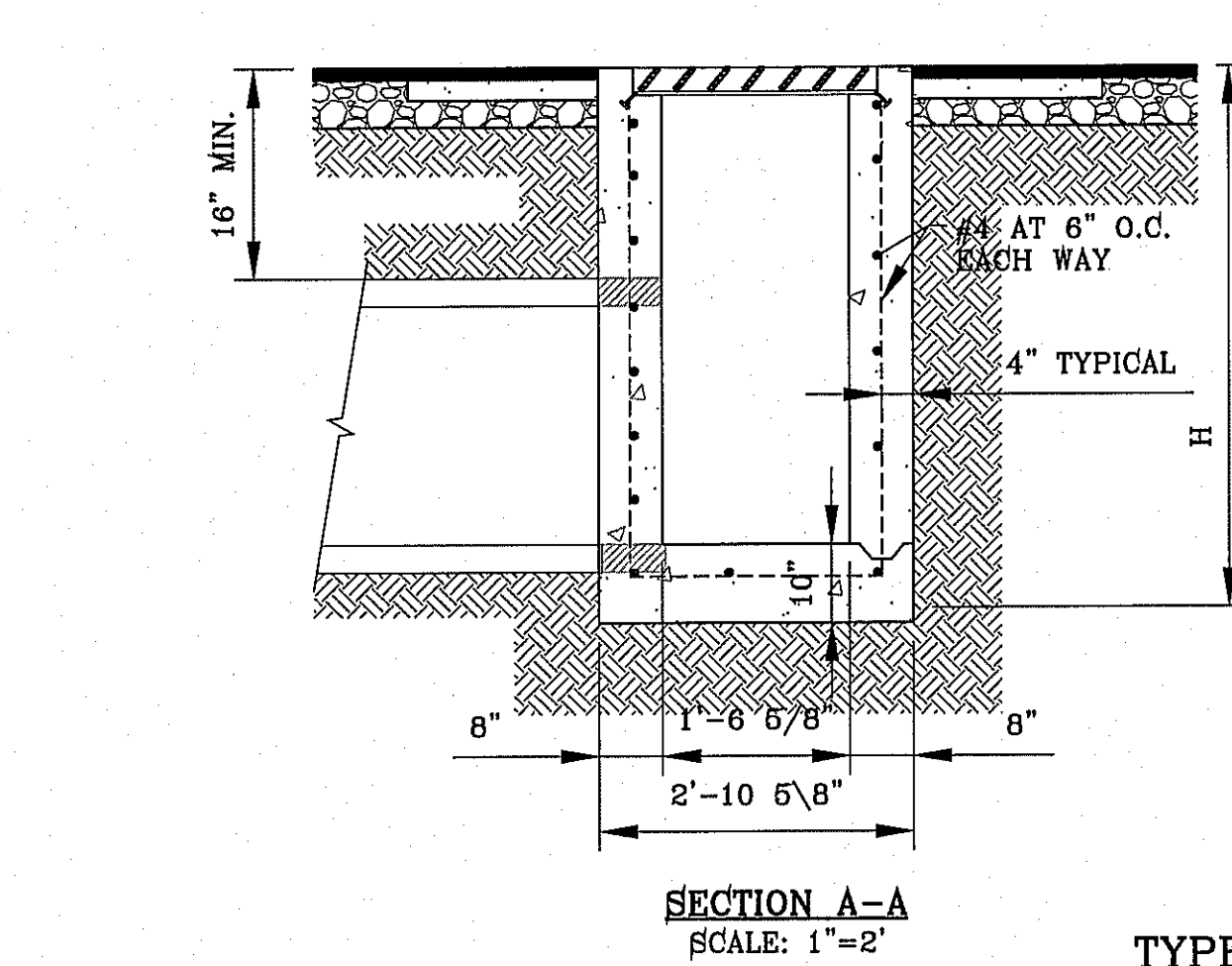
ALL SUBSTITUTIONS OF STRUCTURAL STEEL BEAMS AND CHANNELS FOR DROP INLETS MUST BE SUBMITTED FOR REVIEW AND INCLUDE SECTION MODULUS AND DEFLECTION CALCULATIONS SIGNED AND SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF TEXAS.

DROP INLET TYPE I

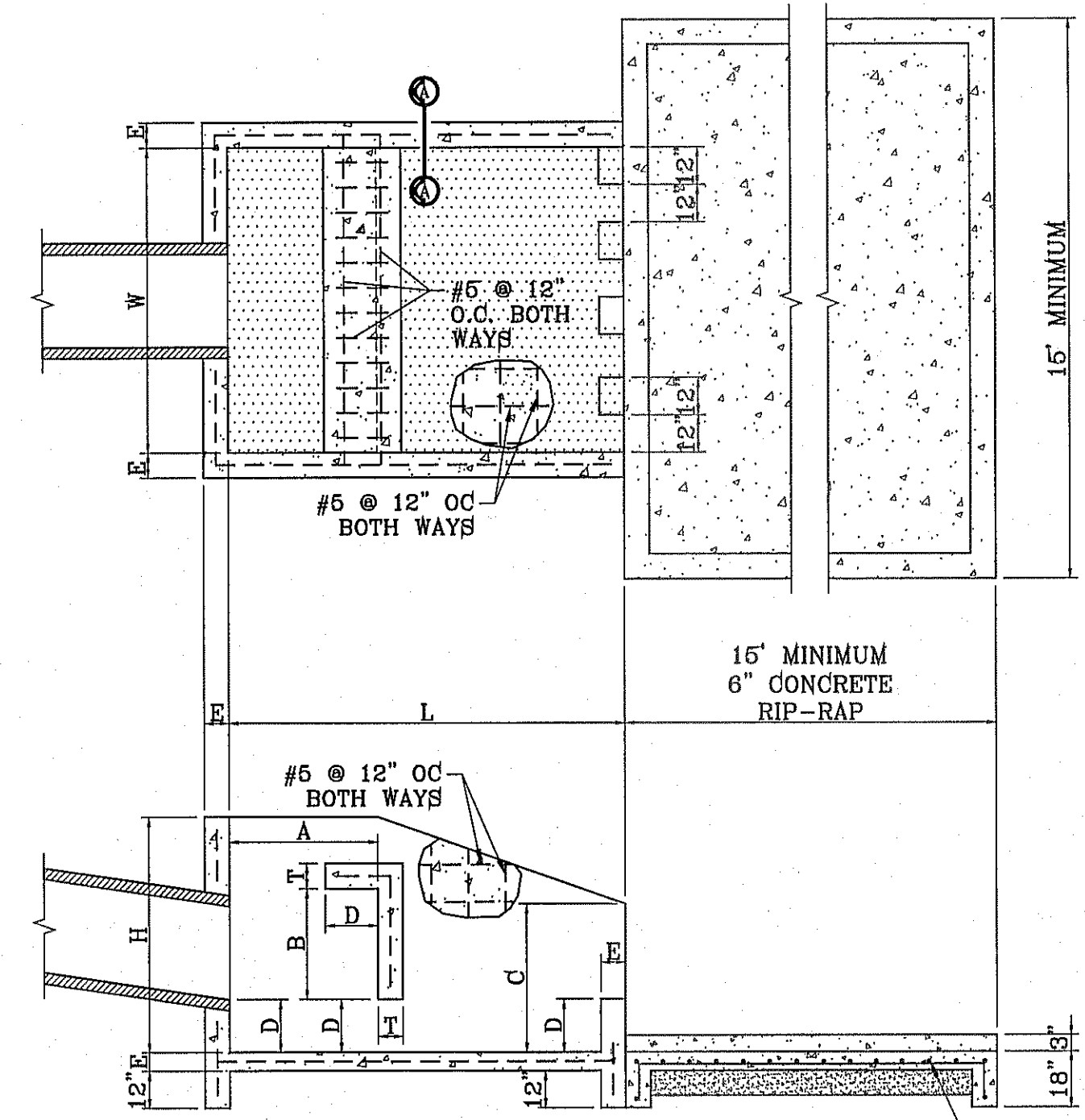


No. OF GRATES	L"
2	7'-1"
3	10'-2"
4	13'-3"
6	16'-4"

NOTES:
 1. H=20" MAXIMUM
 2. CONCRETE TO BE 3000 PSI MIN. CORE TEST @ 28 DAYS.
 3. GRATE TO BE PERPENDICULAR TO TRAFFIC.



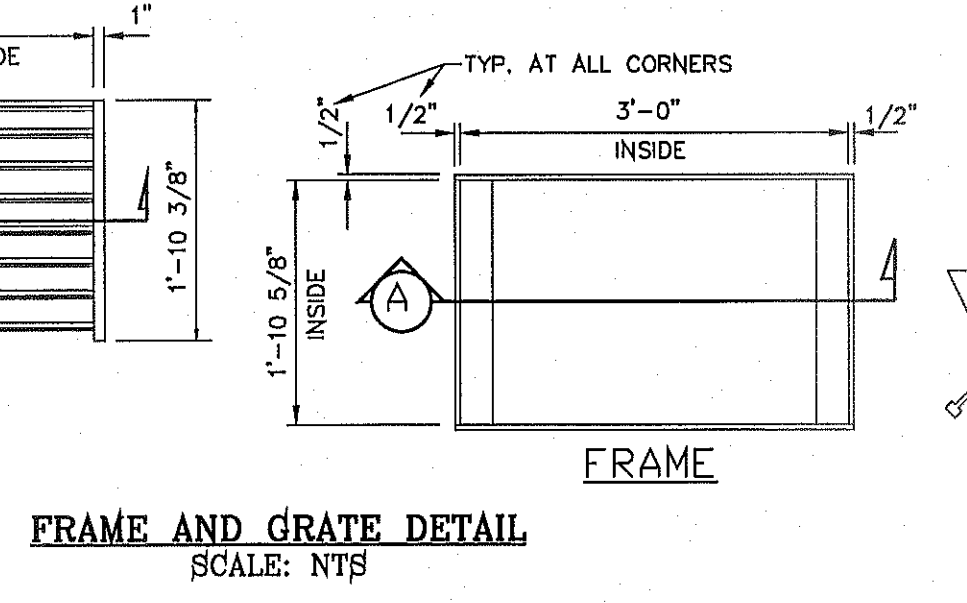
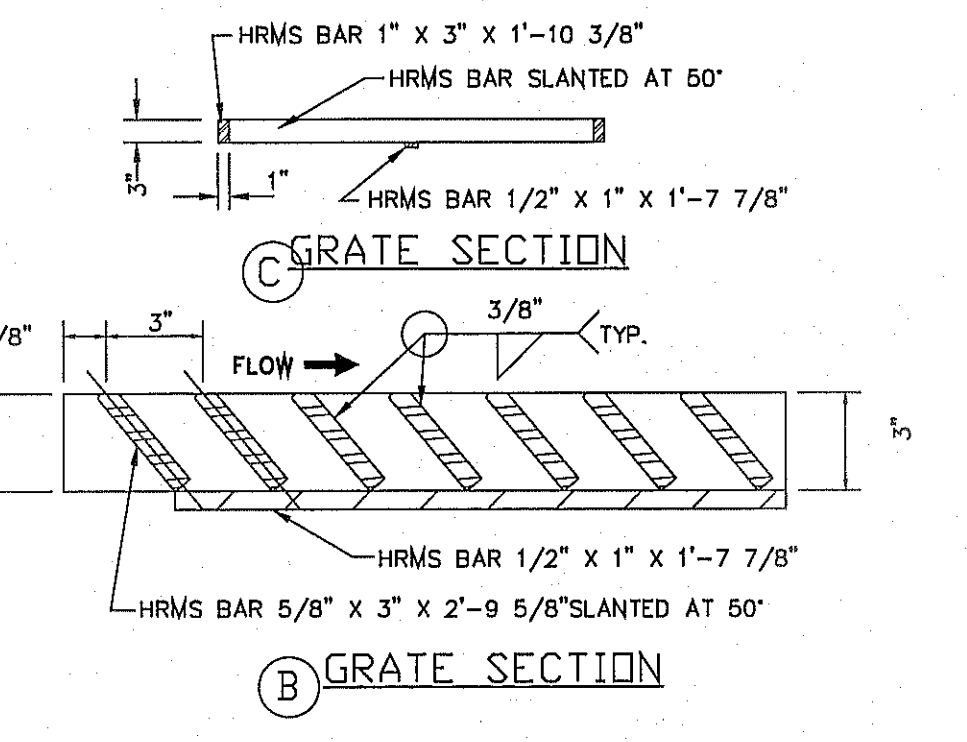
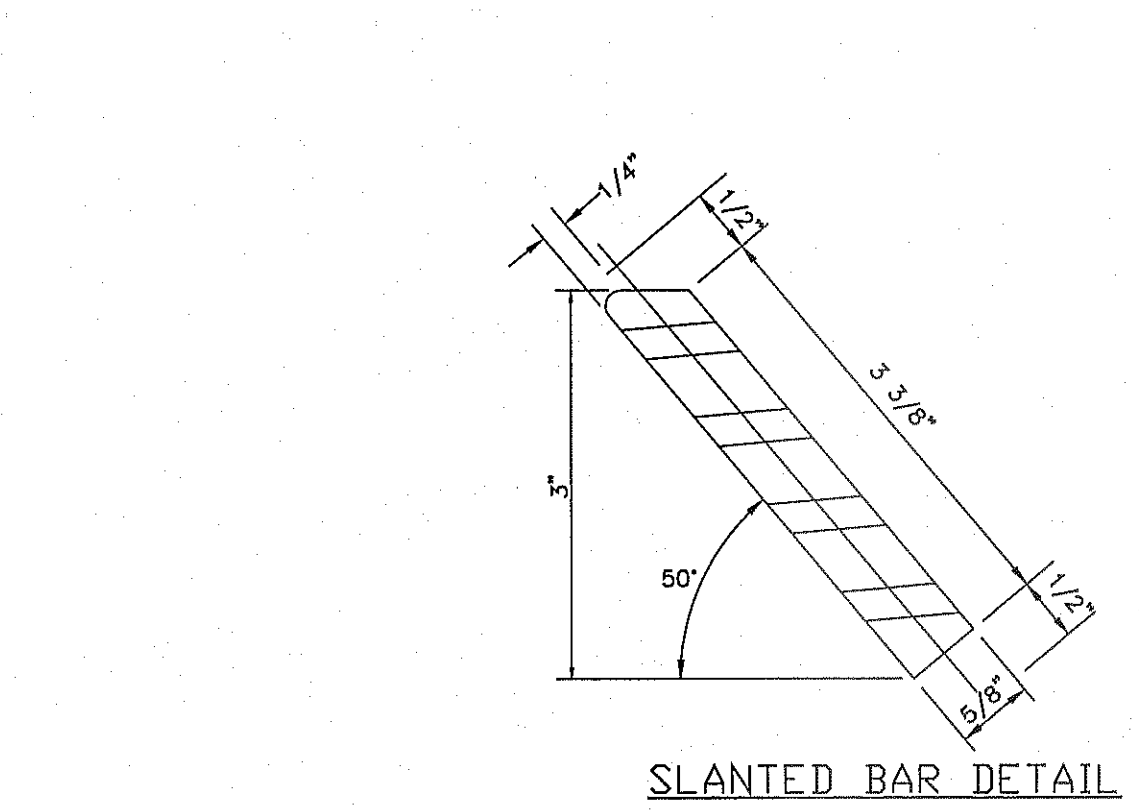
TYPE II INLET MODIFIED



THRUST BLOCK DIMENSIONS										
STRUCTURE NO.	PIPE SIZE	W	H	L	A	B	d	D	E	F
STRUCTURE #1	64"	6'-6"	6'-6"	8'-8"	3'-4"	2'-6"	3'-6"	1'-0"	8"	8"
STRUCTURE #2	42"	6'-6"	6'-6"	8'-8"	3'-4"	2'-6"	3'-4"	1'-0"	8"	8"

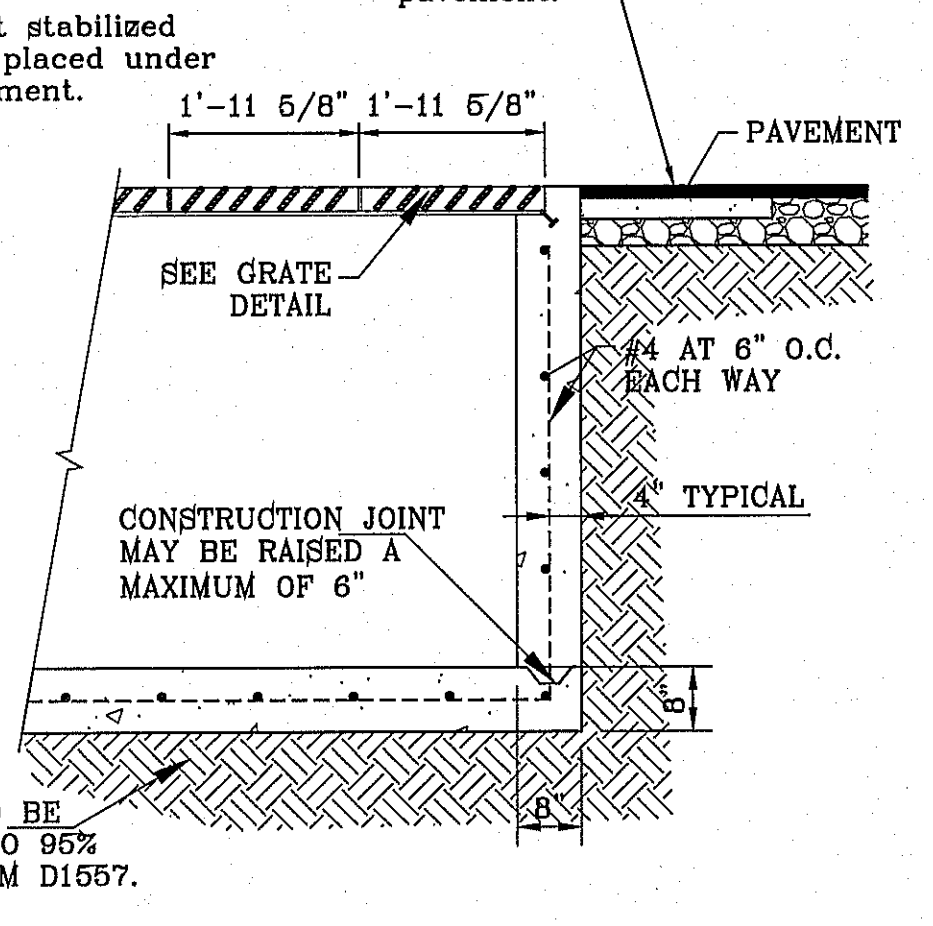
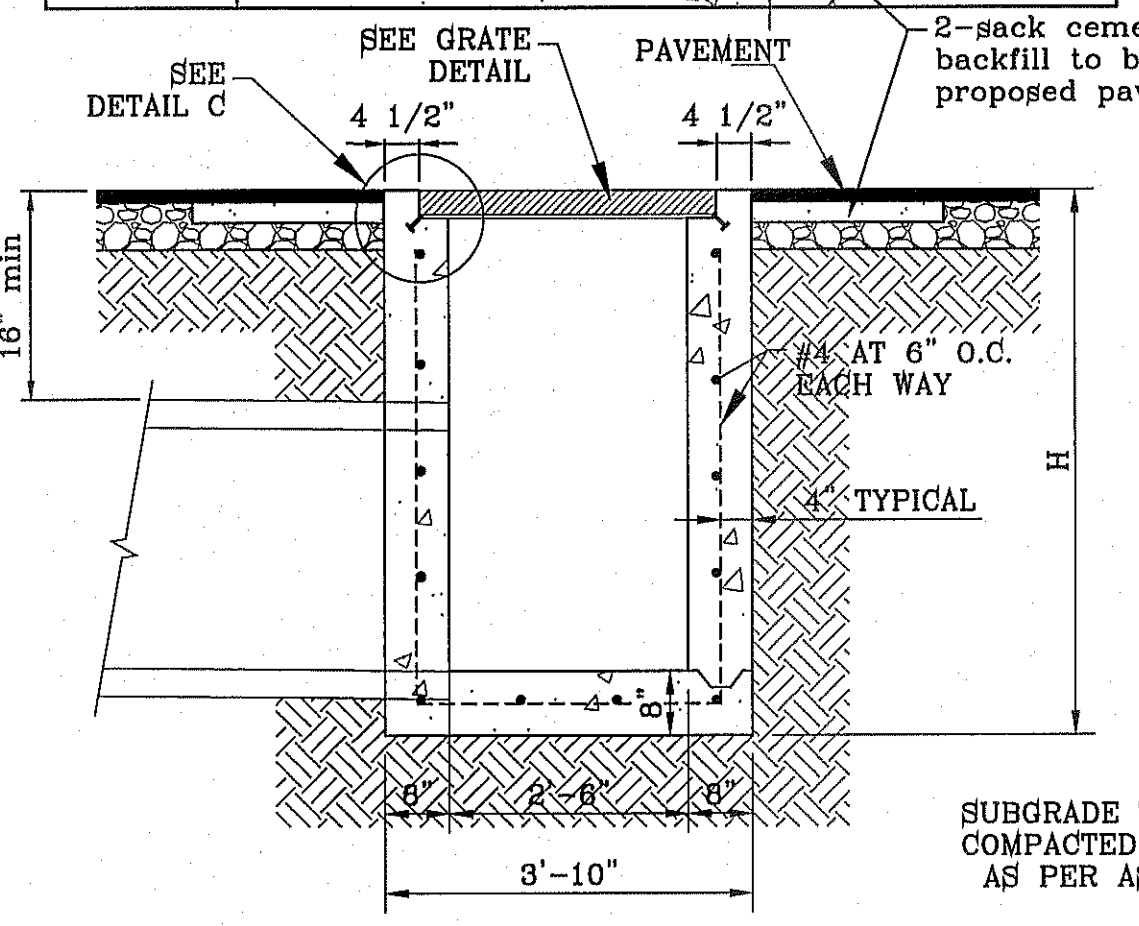
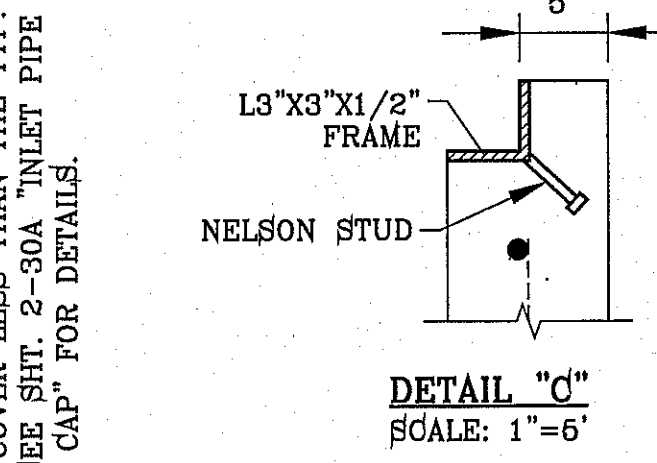
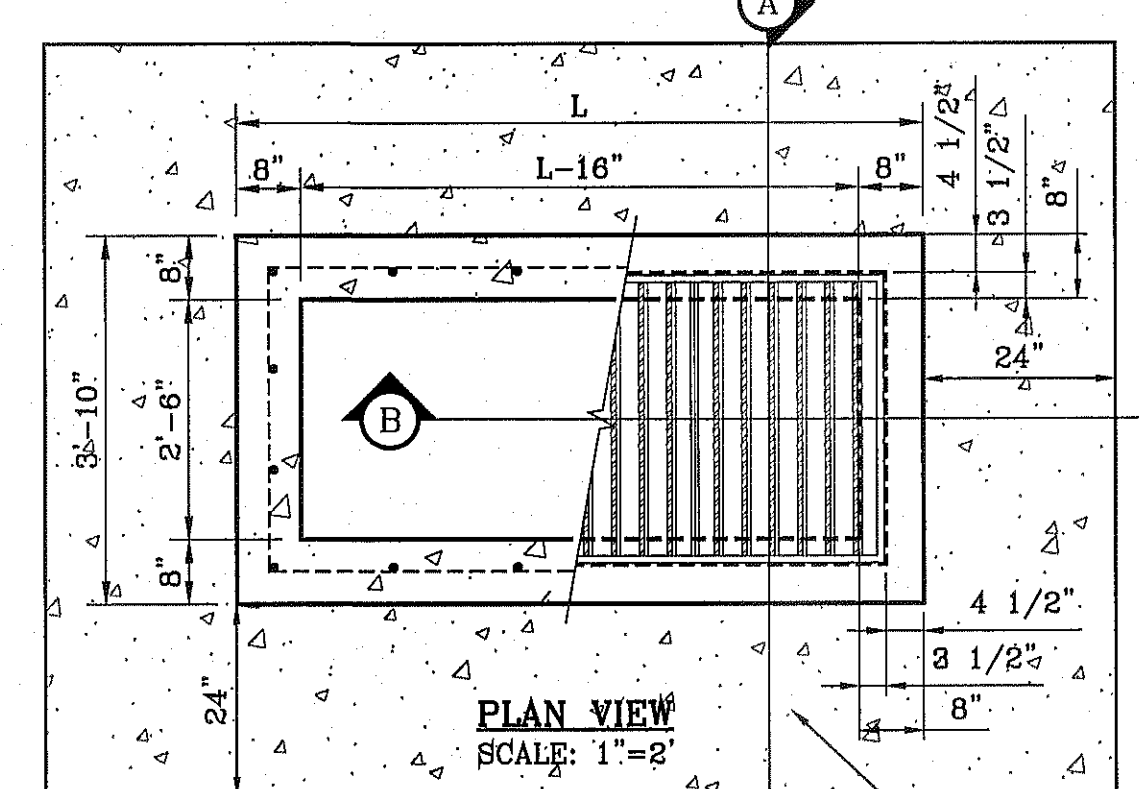
THRUST BLOCK DETAIL
SCALE: 1"=4'

THRUST BLOCK DIMENSIONS



FRAME AND GRATE DETAIL
SCALE: NTS

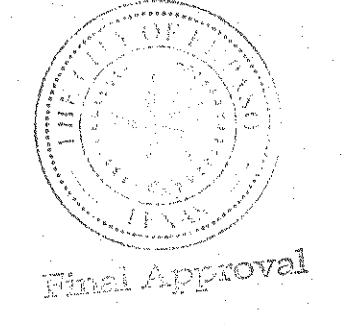
ALL SUBSTITUTIONS OF STRUCTURAL STEEL BEAMS AND CHANNELS FOR DROP INLETS MUST BE SUBMITTED FOR REVIEW AND INCLUDE SECTION MODULUS AND DEFLECTION CALCULATIONS SIGNED AND SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF TEXAS



TYPE III INLET

SECTION A-A
SCALE: 1"=2'

SECTION B-B
SCALE: 1"=2'



TERRA DEL ESTE
UNIT SEVENTY TWO

PROJECT NAME: TERRA DEL ESTE UNIT SEVENTY TWO
 CITY MONUMENT AT THE CENTERLINE INTERSECTION OF RALPH WINSBROOK DR. AND J. J. F.L. ELEVATION 4065.98CITY DATUM
 BENCHMARK:CITY DATUM

BEING PORTION OF SECTIONS 37 AND 48, BLOCK 79, TOWNSHIP 2, TEXAS AND PACIFIC RAILWAY CO. SURVEYS, CITY OF EL PASO, EL PASO COUNTY, TEXAS CONTAINING: .97561 ACRES

DATE:
 REVISIONS:
 BY:
 DATE:

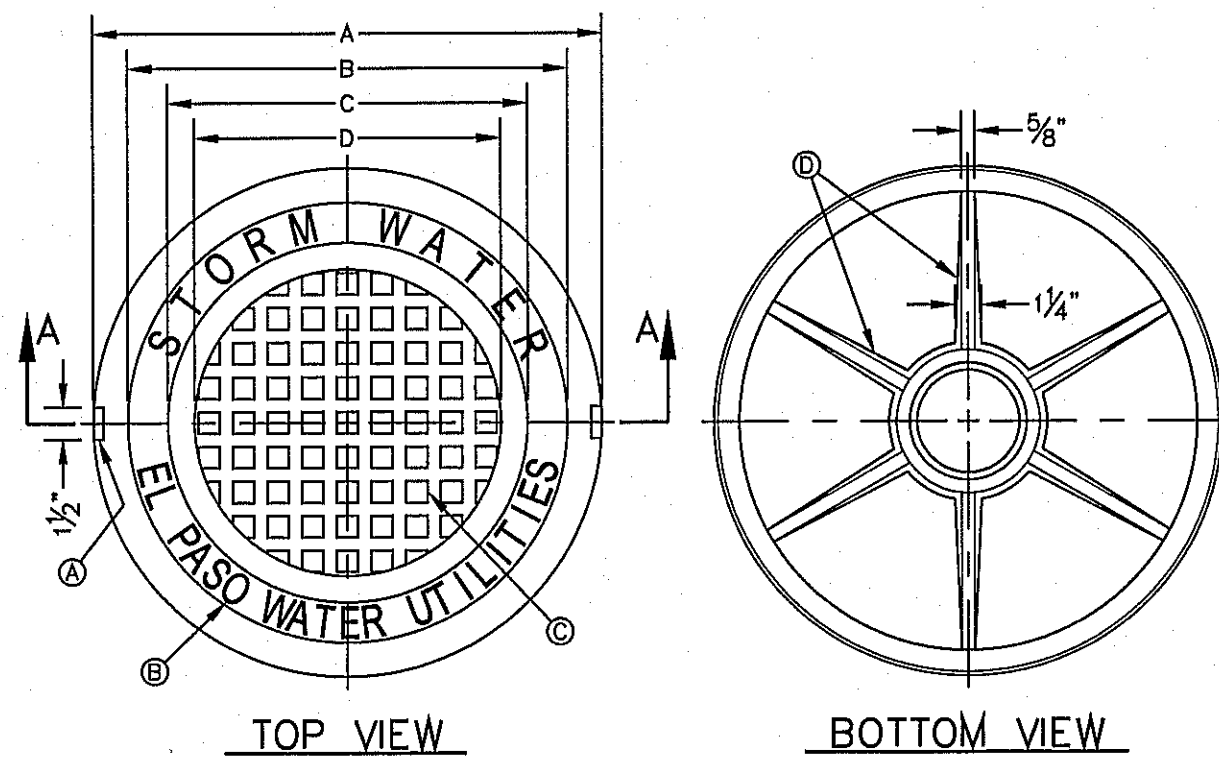
ENGINEER'S SEAL:
 ENGINEER'S SEAL NOT VALID UNLESS ISSUED BY:
 DATE: SEPT. 2013
 DESIGN BY: Y.C.
 INITIATED BY: R.O.
 SUBDIVISION:
 CHECKED BY: Y.C.
 DESIGN STANDARDS:
 JOB NO.: 112-08

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

CONDE INC. REGISTRATION No. F-2321

SHEET TITLE:
 STRUCTURE DETAILS
 SHT 53 OF 70

FILE LOCATION: S:\Subdivisions\72\TDE72-DETAILS_STRUCT PLOTTED ON Friday, August 08, 2014 10:34:56 AM BY ROGER ORTEGA

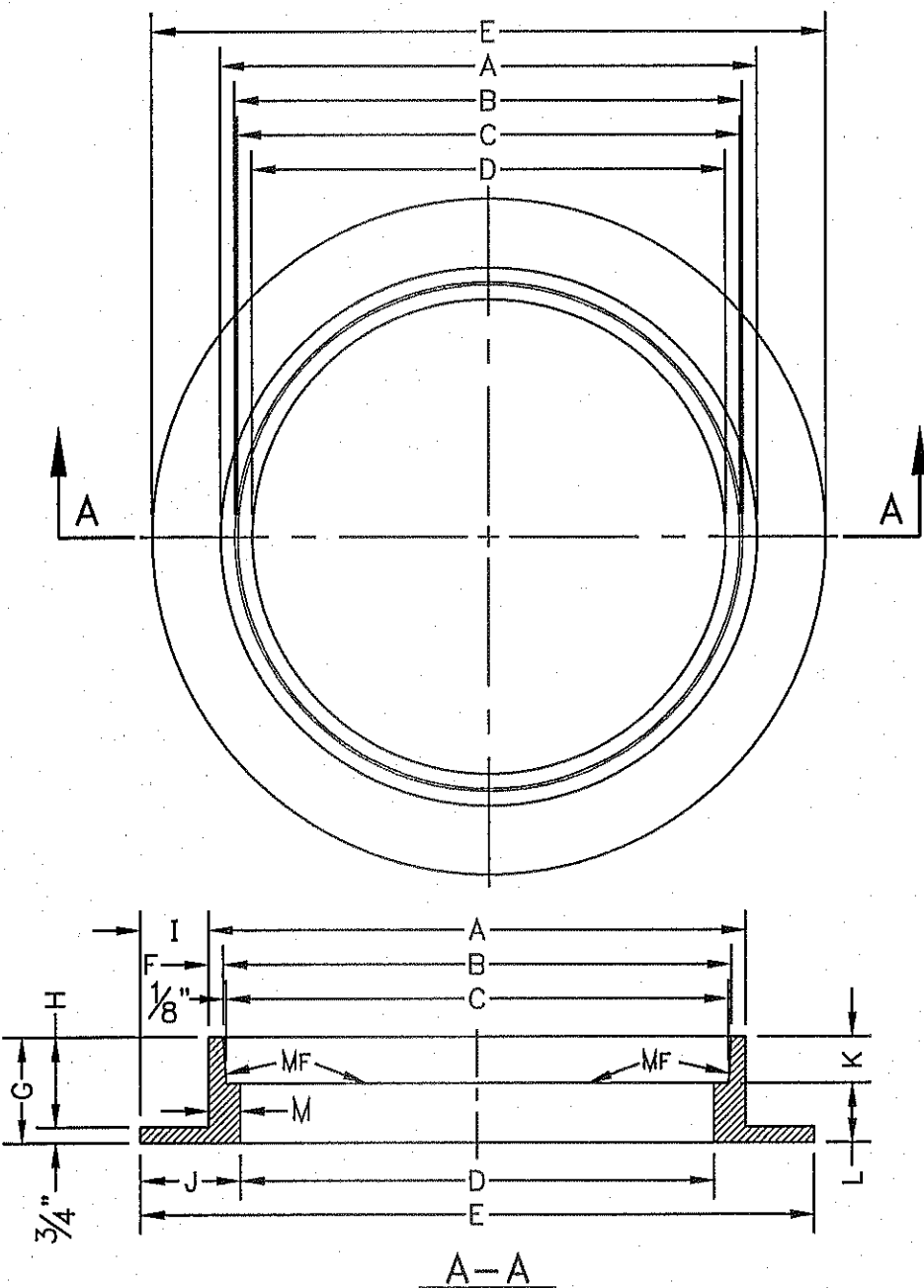


- GENERAL NOTES:**
1. MATCHING SURFACES MARKED "MF" TO BE FINISHED OF ANY IRREGULARITIES THAT WOULD PREVENT A SNUG FIT.
 2. CASTING TO BE SMOOTH & VOID OF AIR HOLES.
 3. CASTING MUST MEET REQUIREMENTS OF AASHTO M306-07.
 4. AS-CAST DIMENSIONS MAY VARY $\frac{1}{16}$ " PER FOOT (AASHTO M306-07).
 5. WEIGHT 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. $\frac{3}{16}$ " RAISED LETTERING.
 - C. 1" SQUARES ($\frac{3}{16}$ " TALL) WITH $\frac{1}{8}$ " SPACE BETWEEN.
 - D. REINFORCING RIBS.
 - E. SLOT.

SEE NOTE 6

MANHOLE COVER	MANHOLE - ALL TYPES	MANHOLE TYPE 21	MANHOLE TYPE 22
A	31 3/8"	23 3/8"	31 3/8"
B	28 1/8"	20 3/8"	28 1/8"
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	1/2"	1 1/8"	1 1/8"
G	3 1/8"	1"	3"
H	1 1/8"	1"	1"
WEIGHT	265 lbs.	170 lbs.	310 lbs.

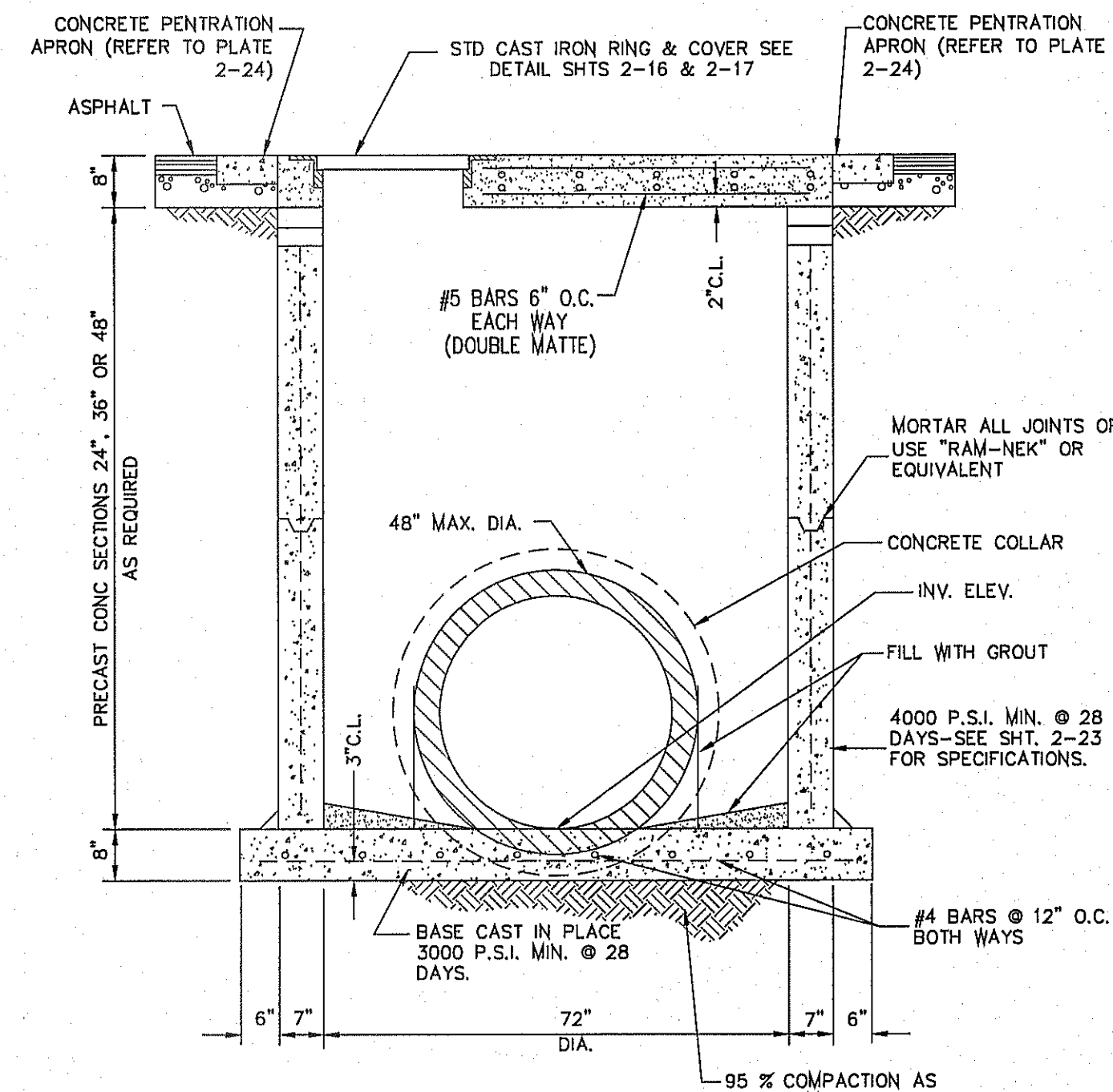


STORMWATER MANHOLE RING SECTION VIEW

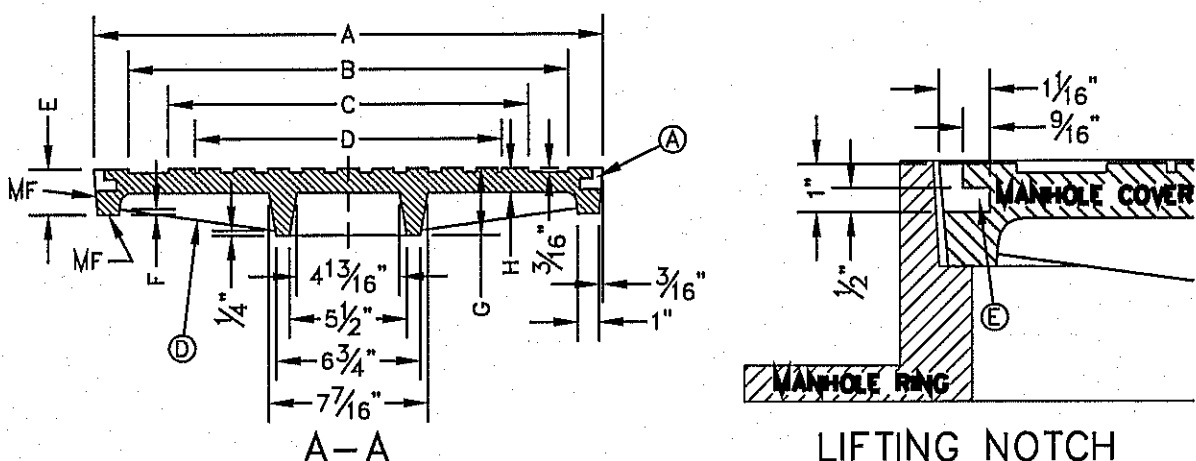
- GENERAL NOTES:**
1. MATCHING SURFACES MARKED "MF" TO BE FINISHED OF ANY IRREGULARITIES THAT WOULD PREVENT A SNUG FIT.
 2. CASTING TO BE SMOOTH & VOID OF AIR HOLES.
 3. CASTING MUST MEET REQUIREMENTS OF AASHTO M306-07.
 4. AS-CAST DIMENSIONS MAY VARY $\frac{1}{16}$ " PER FOOT (AASHTO M306-07).
 5. WEIGHT 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.

SEE NOTE 6

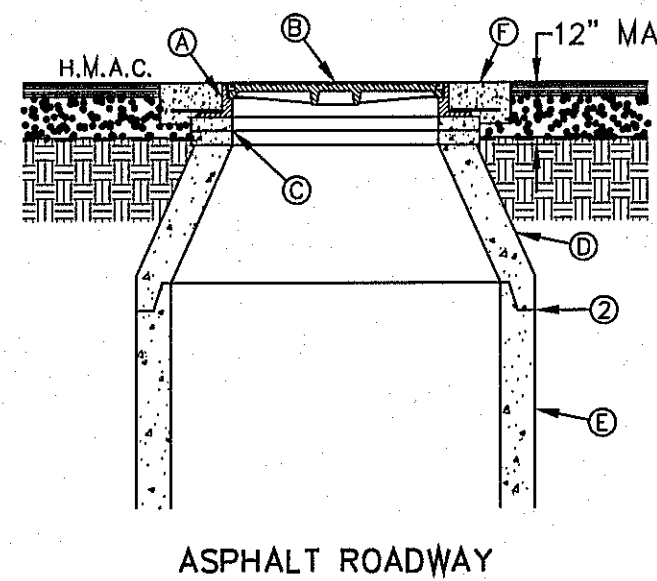
MANHOLE RING	MANHOLE ALL TYPES	MANHOLE TYPE 21	MANHOLE TYPE 22
A	33"	25 1/8"	32 3/8"
B	31 3/4"	23 1/8"	31 3/8"
C	31 1/2"	23 1/8"	31 1/8"
D	30"	22 1/2"	30"
E	39 1/2"	31 1/8"	42"
F	5/8"	1 1/8"	1 1/8"
G	5"	6"	6"
H	4 1/4"	5 1/4"	5 1/4"
I	3 1/4"	4 1/8"	4 1/8"
J	4 3/4"	6"	6"
K	2 3/8"	3 1/8"	3 1/8"
L	2 1/4"	2 3/8"	2 3/8"
M	1 1/2"	1 3/8"	1 3/8"
WEIGHT	220 lbs.	165 lbs.	225 lbs.



72" DIAMETER PRECAST MANHOLE SECTIONS NTS



STORMWATER MANHOLE COVER SECTION VIEW



- GENERAL NOTES:**
1. MANHOLE TYPE SHALL BE AS SHOWN ON THE PLANS.
 2. SEAL JOINTS PER SPECIFICATIONS.

CONSTRUCTION KEY NOTES:

- A. MANHOLE RING (SEE DETAIL 377).
- B. MANHOLE COVER (SEE DETAIL 378).
- C. CONCRETE ADJUSTMENT RINGS AS REQUIRED.
- D. MANHOLE CONE SECTION.
- E. MANHOLE BARREL SECTION.
- F. CONCRETE COLLAR (SEE DETAIL 184-1) FLUSH WITH TOP OF H.M.A.C.
- G. MANHOLE RING FLUSH WITH TOP OF CONCRETE. CONCRETE COLLAR NOT NEEDED.
- H. CONCRETE APRON (SEE DETAIL 184-2) FLUSH WITH MANHOLE RING AND 2" ABOVE NATURAL GROUND.

CONCRETE APRON FOR CIRCULAR PENETRATIONS IN ASPHALT PAVEMENTS

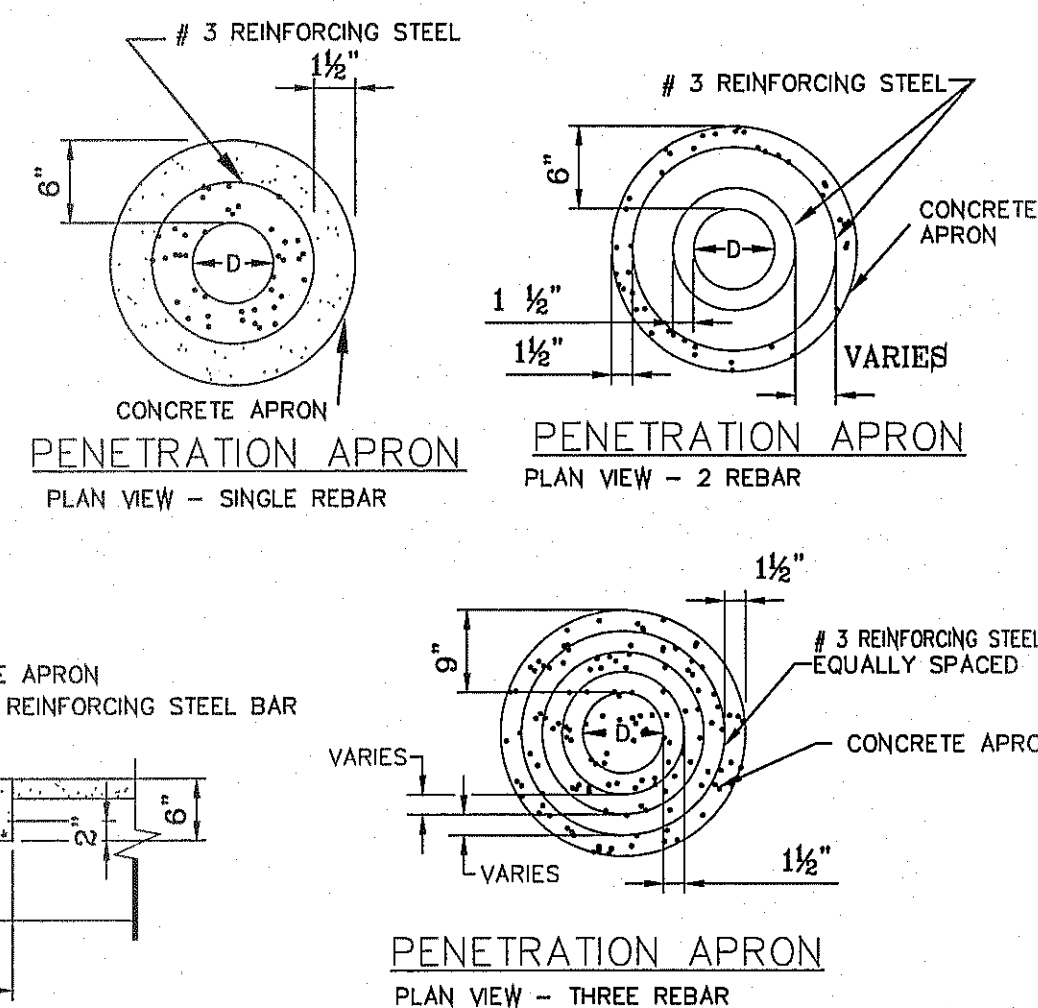
"D" DIAMETER OF PENETRATION (INCHES)	"A" CONCRETE HORIZONTAL DIMENSION FROM PENETRATION (INCHES)	NUMBER OF NO. 3 REINFORCING STEEL BARS	"B" MINIMUM CLEARANCE FROM EDGE OF CONCRETE APRON TO CENTER OF NEAREST REBAR (INCHES)	"C" MINIMUM CLEARANCE FROM PENETRATION EDGE TO CENTER OF NEAREST REBAR (INCHES)
6 TO 8.01	6	1	1 1/2	1 1/2
8.01 TO 18.01	8	2	1 1/2	1 1/2
18.01 AND OVER	12	3	1 1/2	1 1/2

CONSTRUCTION NOTES:

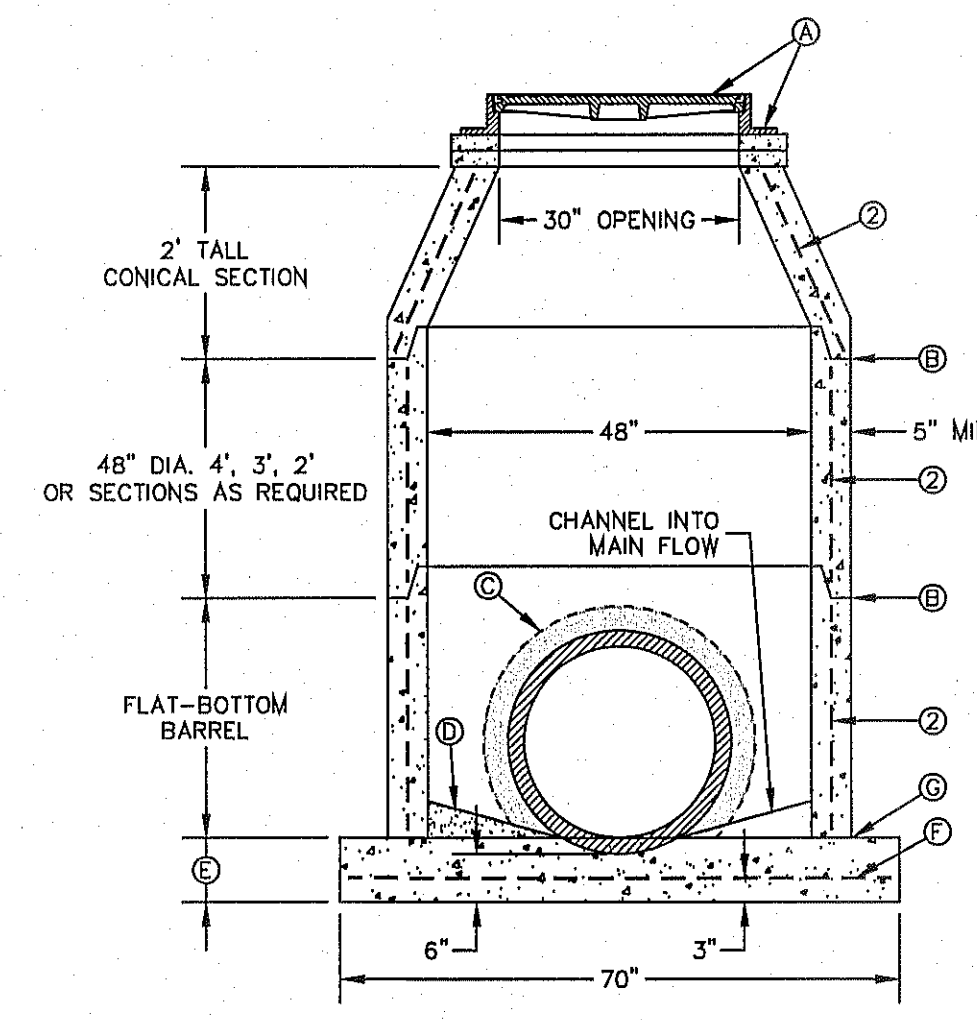
1. ANY DISTURBED SUBGRADE UNDER THE CONCRETE APRON SHALL BE COMPACTED TO 98% RELATIVE COMPACTION (ASTM D1557).
2. ANY DISTURBED COURSE UNDER THE CONCRETE APRON SHALL BE COMPACTED TO 100% RELATIVE COMPACTION (ASTM D1557).
3. PROVIDE A MINIMUM OF 1 1/2" OF CONCRETE COVER FOR ALL REINFORCING STEEL.
4. REINFORCING 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.



PENETRATION APRON SECTION VIEW



48" MANHOLE DET. 920-2

GENERAL NOTES:

1. MANHOLE TYPE "S-A1" SHALL BE USED FOR LINES 24" AND SMALLER. NOT TO BE USED UNDER GROUND WATER CONDITIONS.
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" OPENINGS OR KNOCKOUTS, OPENINGS (UP TO 8") MADE IN FIELD SHALL BE CORE DRILLED.
3. CEMENT SHALL BE TYPE I-III PER ASTM C-150, AND MUST CONTAIN A MINIMUM OF 4% FLY ASH OF THE TOTAL MANHOLE WEIGHT.
4. THE BASE SHALL BE CAST IN PLACE CONCRETE (MINIMUM 28 DAY COMPRESSIVE STRENGTH 4000 PSI) POURED ON UNDISTURBED OR THOROUGHLY COMPACTED SUB-BASE.
5. MANUFACTURER TO PROVIDE LIFTERS OF ADEQUATE SIZE AS NEEDED.
6. THE SUBGRADE UNDER THE BASE SHALL BE COMPACTED TO 98% DENSITY IN ACCORDANCE WITH ASTM D-1557.

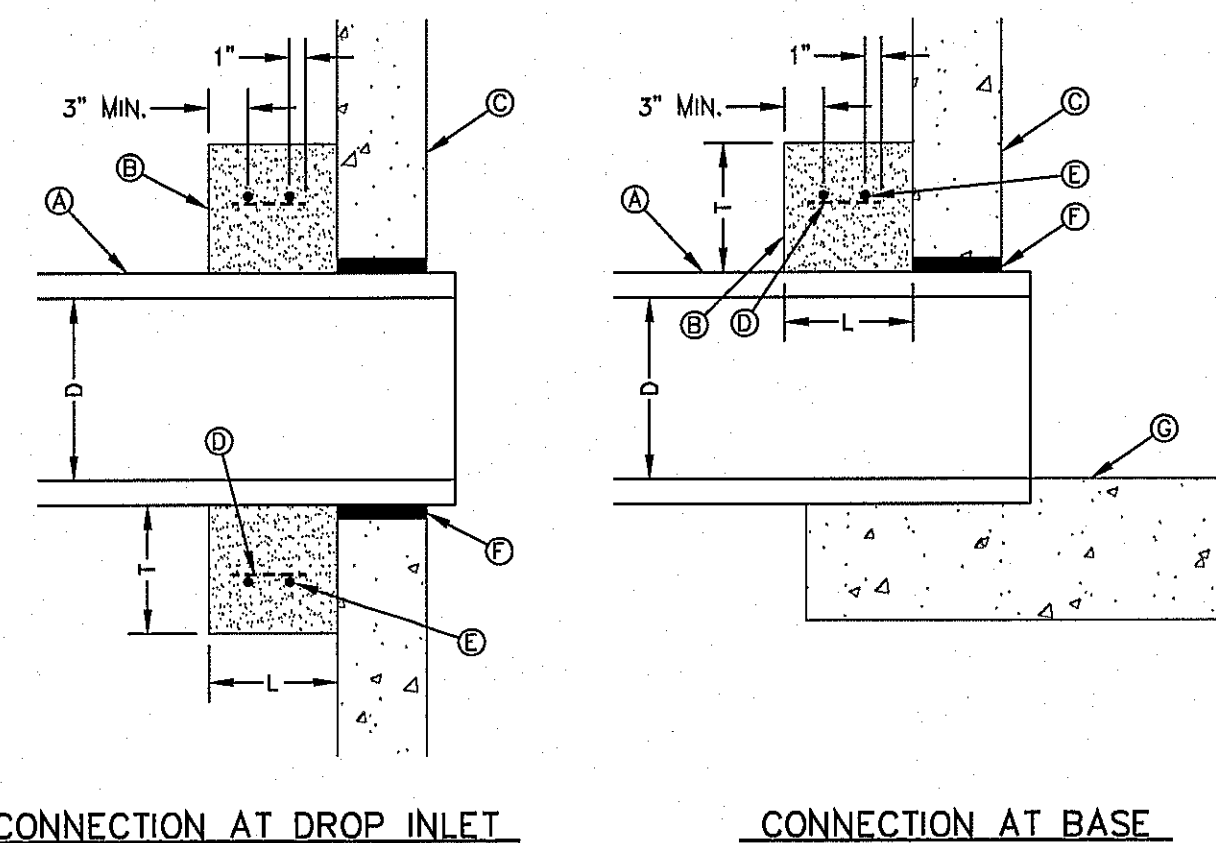
CONSTRUCTION KEY NOTES:

- 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 A CONCRETE COLLAR ALL AROUND (SEE DETAIL 926-2).
- D. GROUT AS REQUIRED.
- E. CONCRETE BASE SHALL BE 8" FOR MH'S UP TO 12' DEEP AND 12" FOR DEPTHS GREATER THAN 12'.
- F. NO. 4 REBARS 8" ON CENTER, BOTH WAYS.
- G. SEAL ALL AROUND WITH MORTAR OR RAM-NEK (OR APPROVED EQUAL).

- GENERAL NOTES:**
1. NOT TO BE USED UNDER GROUND WATER CONDITIONS.
- 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 CIRCULAR TIES.
 - F. NON-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.

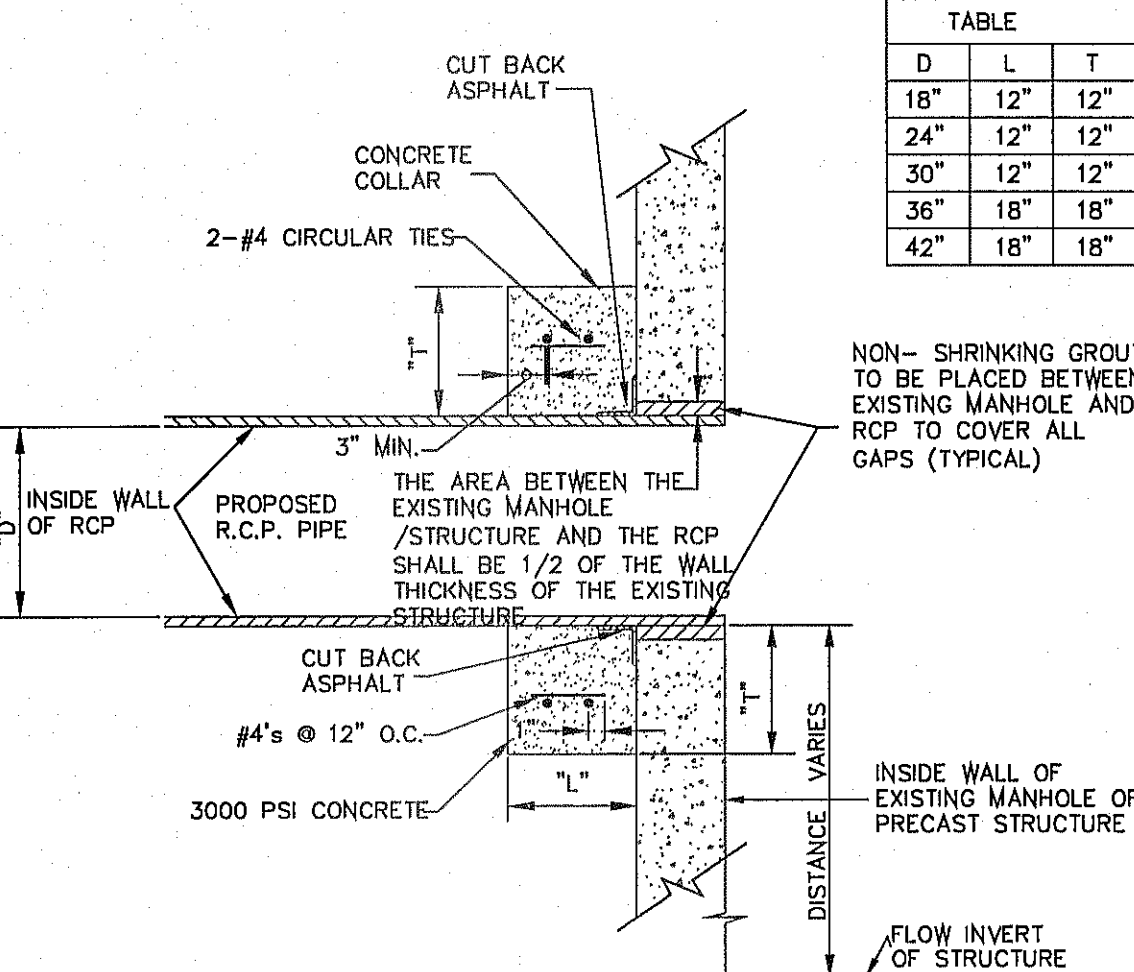
TABLE

D	L	T
18"	12"	12"
24"	12"	12"
30"	12"	12"
36"	18"	18"
42"	18"	18"



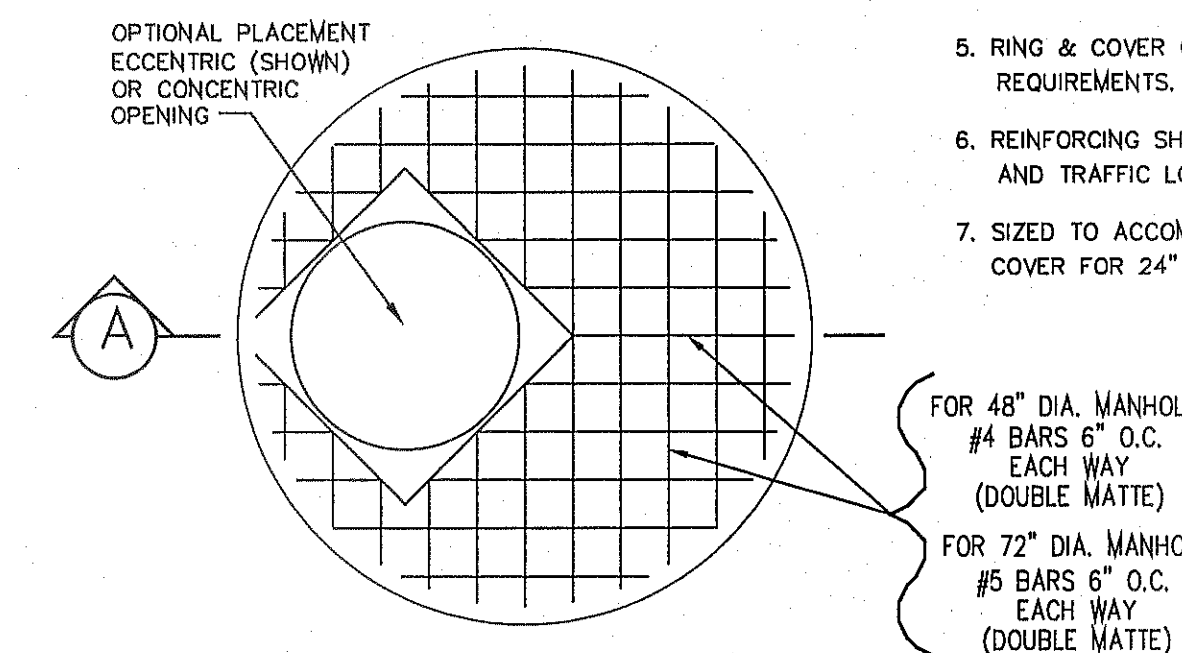
CONNECTION AT DROP INLET

CONNECTION AT BASE



LATERAL CONNECTION AT PRECAST JUNCTION BOXES OR EXISTING MANHOLES (ABOVE MAINLINE FLOW INVERT)

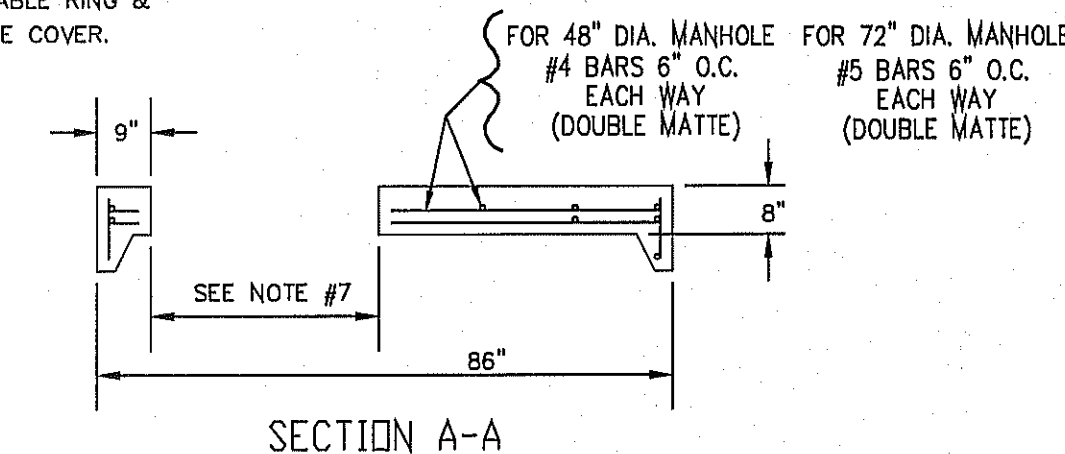
SCALE: N.T.S.



MANHOLE COVER FOR 48" and 72" MANHOLE

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.
3. 4000 P.S.I. CONCRETE 28 DAYS.
4. KEYS ADDS 8" TO VERTICAL HEIGHT.
5. RING & COVER OR SPECIAL LIDS TO MEET REQUIREMENTS.
6. REINFORCING SHALL MEET A.S.T.M. C478-87 AND TRAFFIC LOADING (HS-20).
7. SIZED TO ACCOMMODATE APPLICABLE RING & COVER FOR 24" OR 32" MANHOLE COVER.



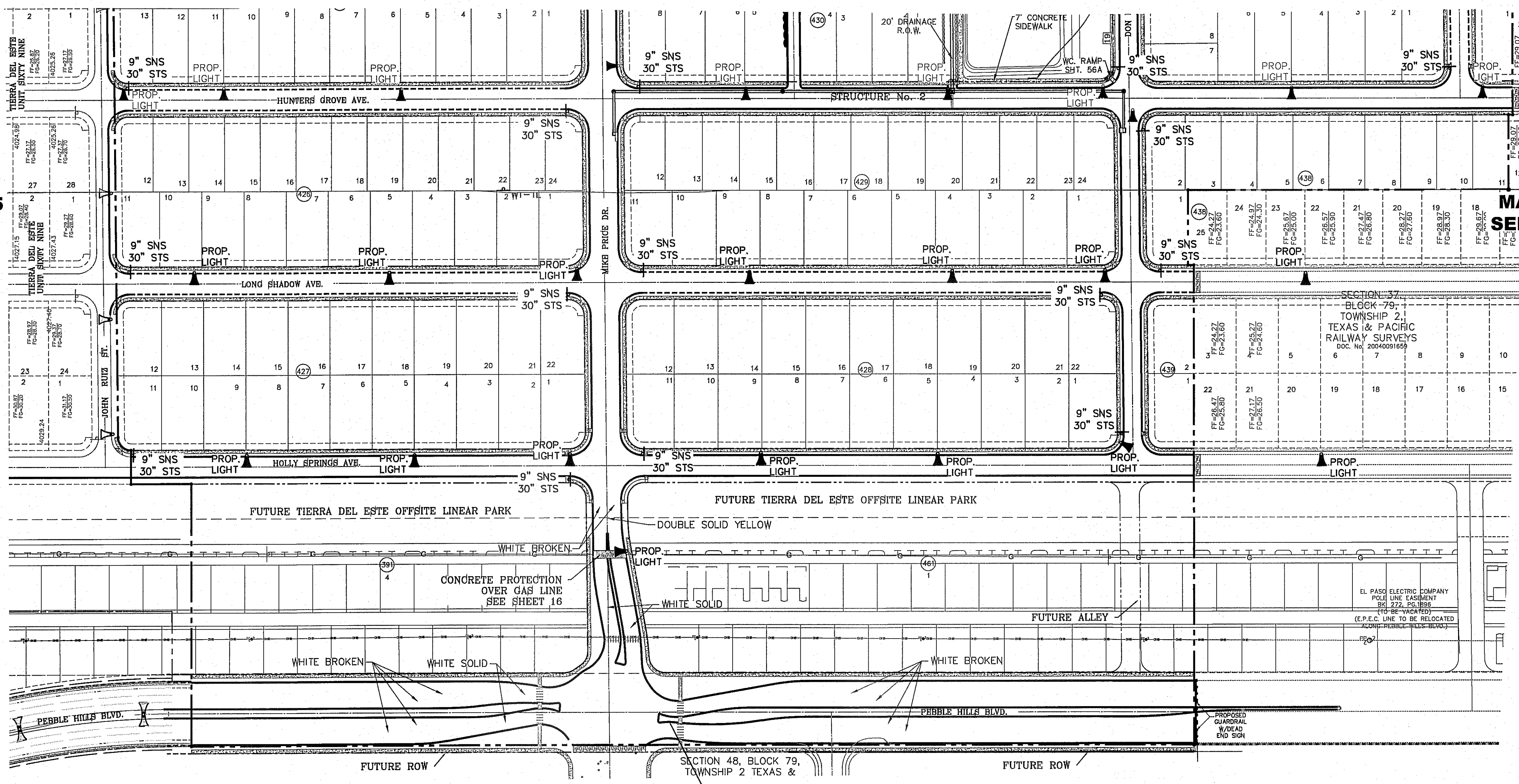
SECTION A-A

PROJECT NAME: TERRA DEL ESTE UNIT SEVENTY TWO
 CITY MONUMENT AT THE CENTERLINE INTERSECTION OF RALPH SPRINGER RR. AND GAYLORO FL. ELEVATION 4065-98 CITY DATUM
 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
 DESIGN BY: Y.C. DATE: SEPT. 2013
 INITIATED BY: R.O. DIVISION: SUBDIVISION DESIGN STANDARDS
 CHECKED BY: Y.C. JOB NO.: 112-08
 SHEET TITLE: STRUCTURE DETAILS
 SHEET NO.: 54 OF 70

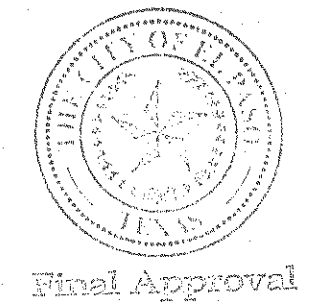
FILE LOCATION S:\Subdivisions\TDE 72\TDE72-DETAILS STRUCT PLOTTED ON Friday, August 08, 2014 10:34:59 AM BY ROGER ORTEGA

S:\projects\2014\72-TDE\72-TDE-CDPL PLOTTED ON Friday, August 08, 2014 10:38:07 AM BY ROGER ORTEGA
 FILE LOCATION S:\Subdivisions\TDE 72\TDE 72-CDPL PLOTTED ON Friday, August 08, 2014 10:38:07 AM

**MATCH LINE
SEE SHEET 55**



FOR TURNABOUT SIGNAGE SEE SHEET 56A



BENCHMARK
CITY MONUMENT AT THE CENTERLINE INTERSECTION OF RALPH SETTSINGER DR. AND CALUCENO PL. ELEVATION 4023.95 CITY DATUM

DATE	REVISIONS	BY

PROJECT NAME
**TERRA DEL ESTE
UNIT SEVENTY TWO**

BEING PORTION OF SECTIONS 37 AND 48, BLOCK 79, TOWNSHIP 2, TEXAS AND PACIFIC RAILWAY CO. SURVEYS, CITY OF EL PASO, EL PASO COUNTY, TEXAS CONTAINING: .975511 ACRES

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

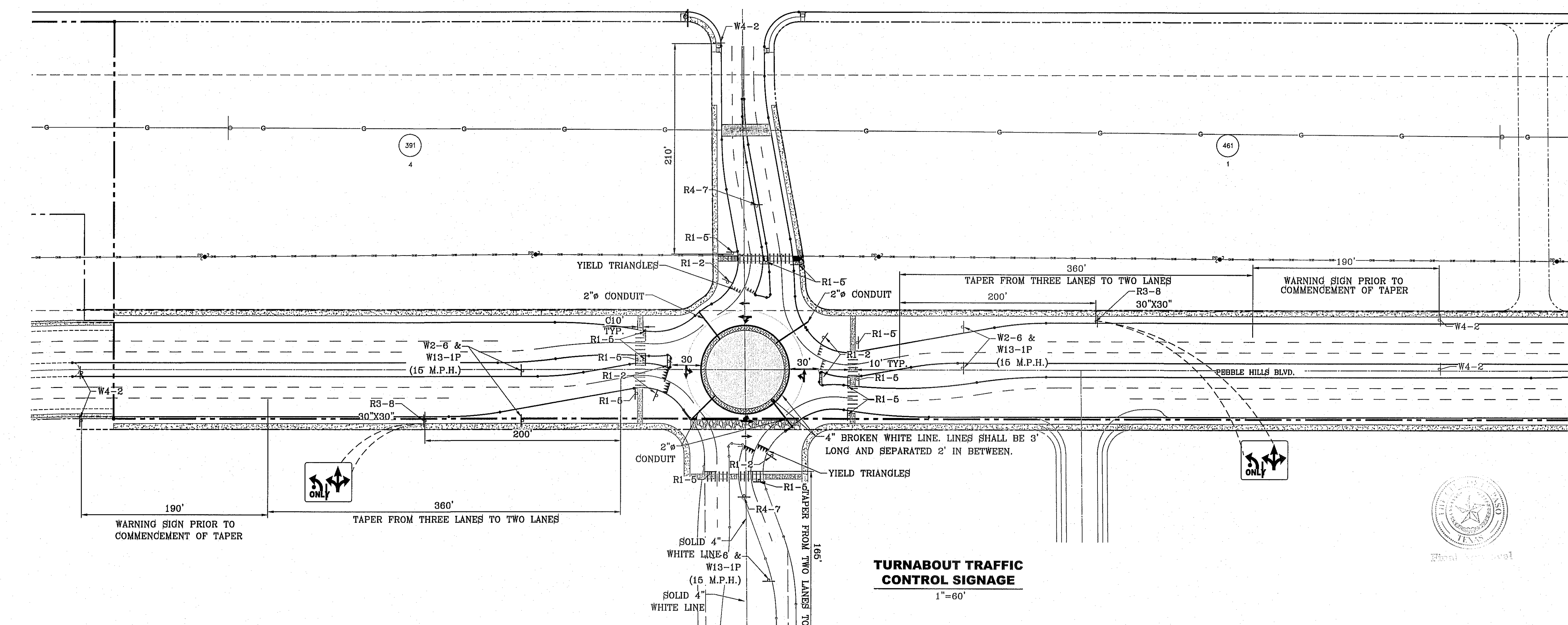
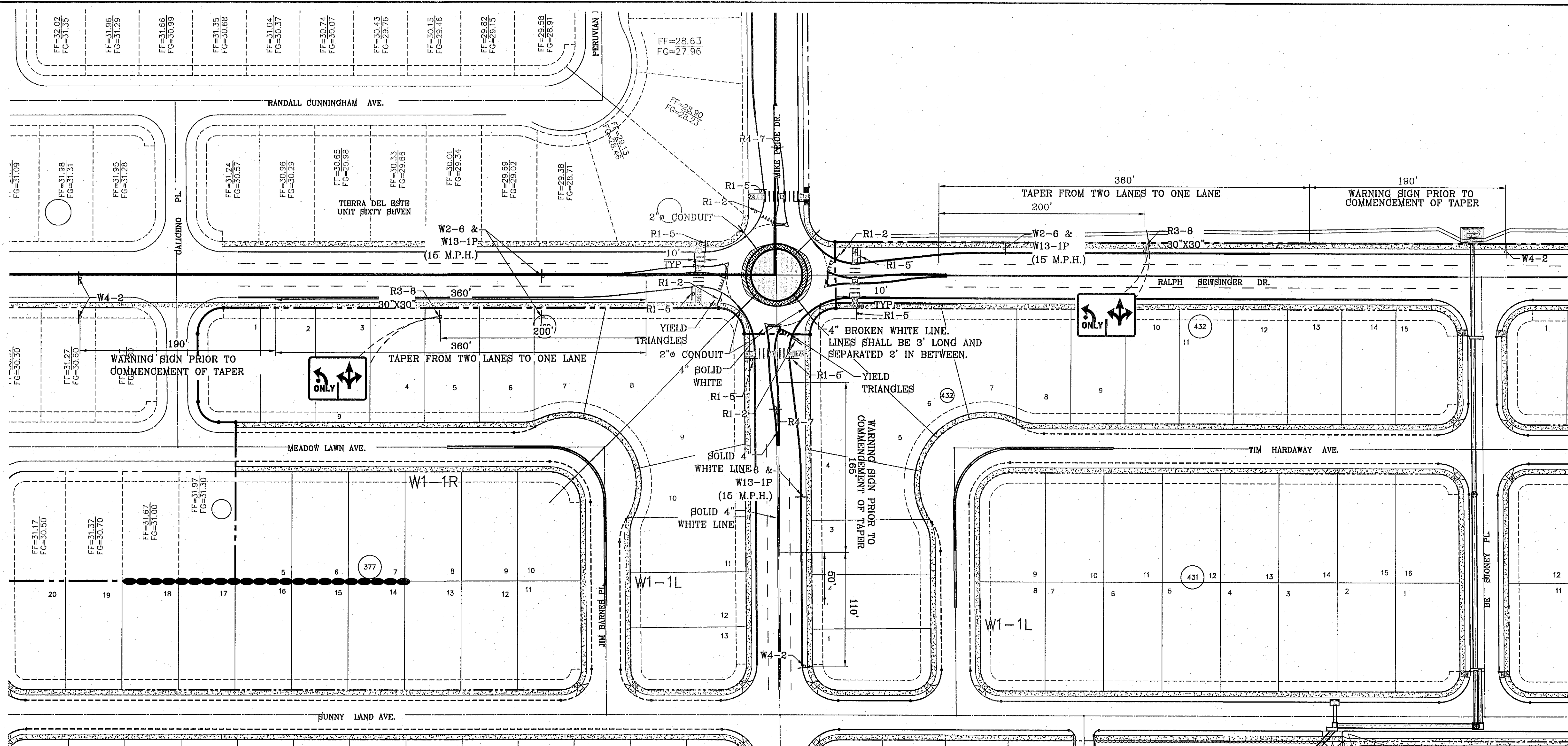
DATE: SEPT. 2013
DESIGN BY: Y.C.
INITIATED BY: R.O.
CHECKED BY: Y.C.
JOB NO.: 112-08

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



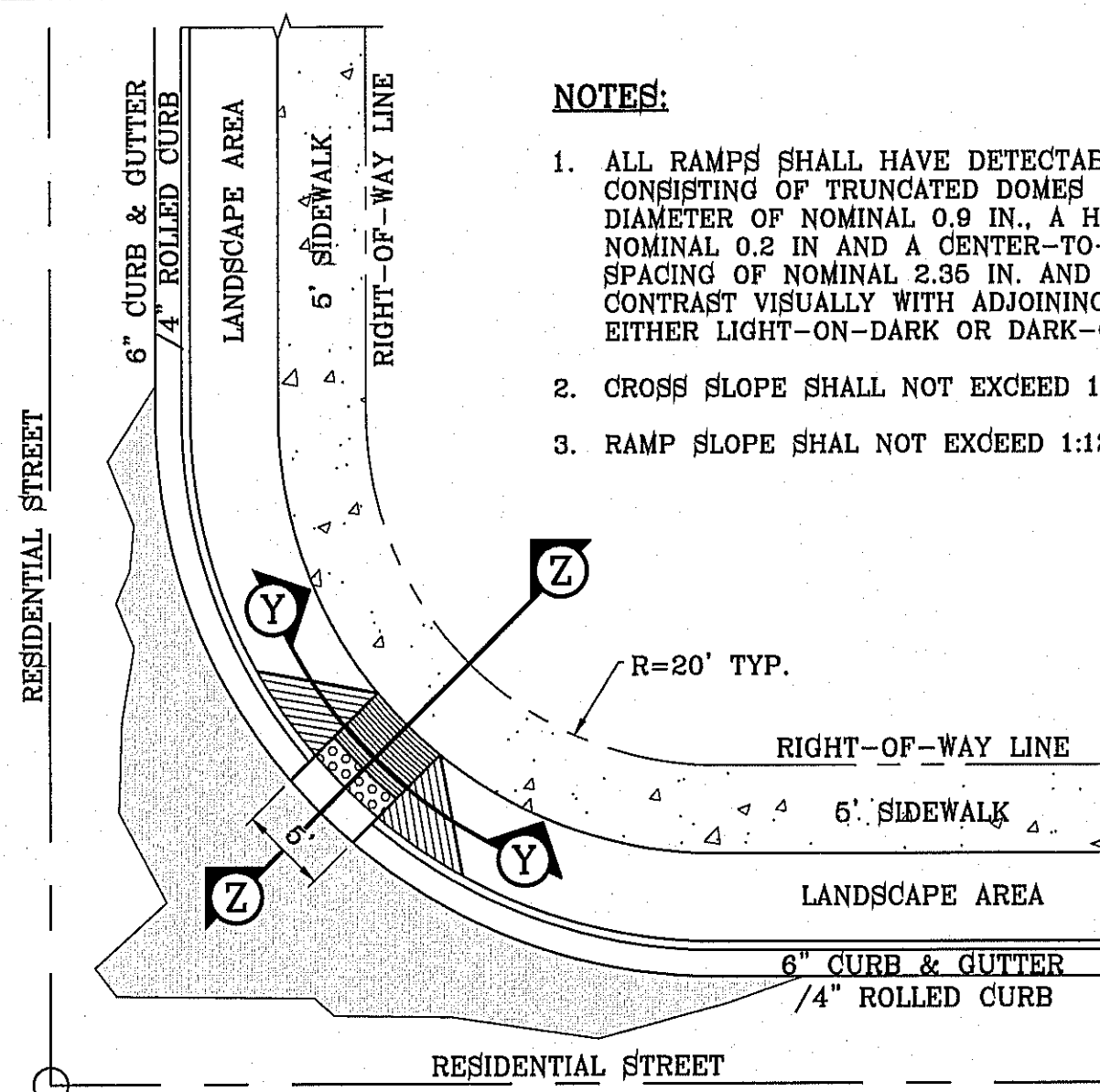
SHEET TITLE
**ILLUMINATION
AND
TRAFFIC
CONTROL
PLAN**

FILE LOCATION S:\Subdivisions\TDE 72 YDE 72 - TURNABOUT - SIGNS PLOTTED ON Friday, August 08, 2014 10:36:30 AM BY ROGER ORTEGA

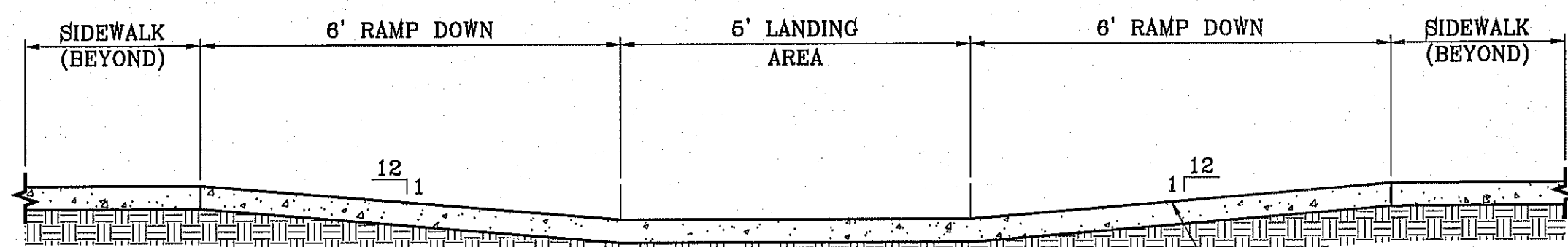


SCALE: 1"=60'

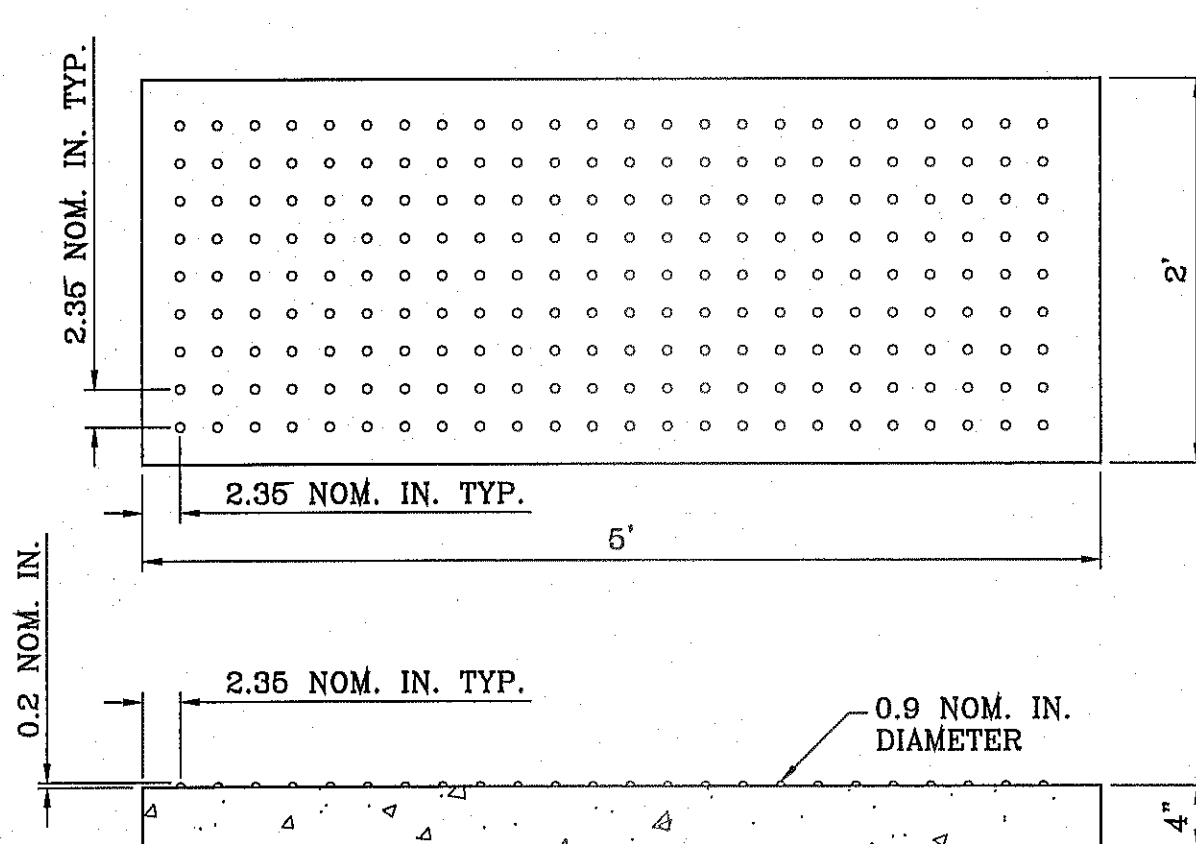
PROJECT NAME TIERRA DEL ESTE UNIT SEVENTY TWO	
BEING PORTION OF SECTIONS 37 AND 48, BLOCK 79, TOWNSHIP 2, RANGE 10 AND PACIFIC RAILWAY CO. SURVEYS, CITY OF PEARLAND, GALVESTON COUNTY, TEXAS CONTAINING: 97.651 ± ACRES	
SCALE HORIZ: 1"=60' VERT: ---	DATE: SEPT. 2013 DESIGN BY: Y.C. INITIATED BY: R.O. CHECKED BY: Y.C. JOB NO.: 112-08
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 TURNABOUT TRAFFIC CONTROL SIGNAGE	
SHT 56A OF 70	



RAMP ON SIDEWALK AT CURB & GUTTER/ROLLED CURB
SCALE: 1"=10'



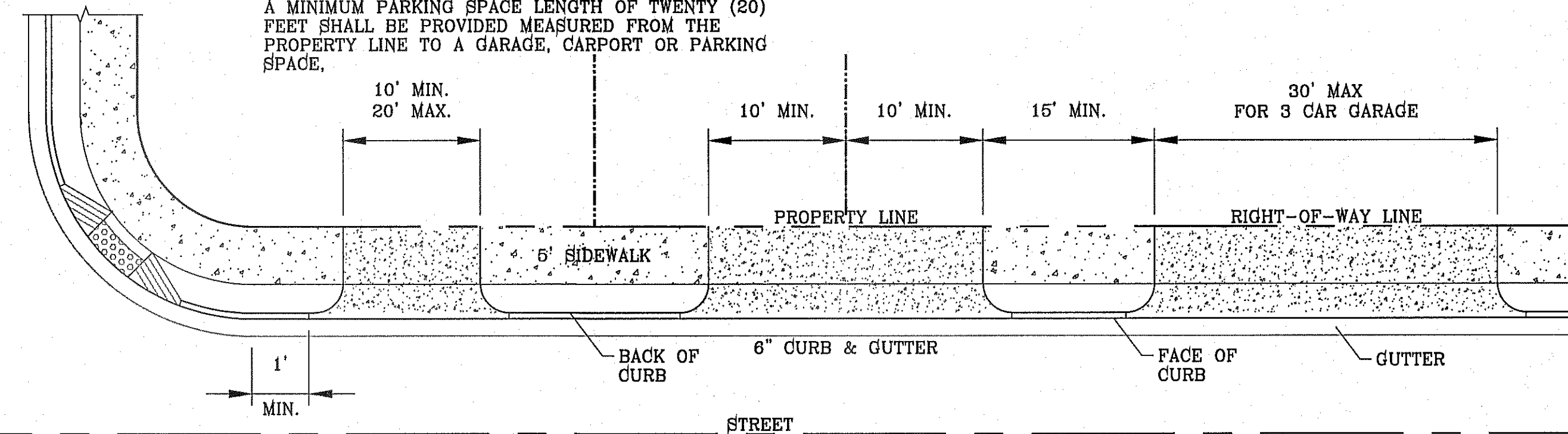
WHEELCHAIR RAMP SECTION Y
SCALE: 1"=2'



TRUNCATED DOMES
SCALE: 1"=1'

NOTE:

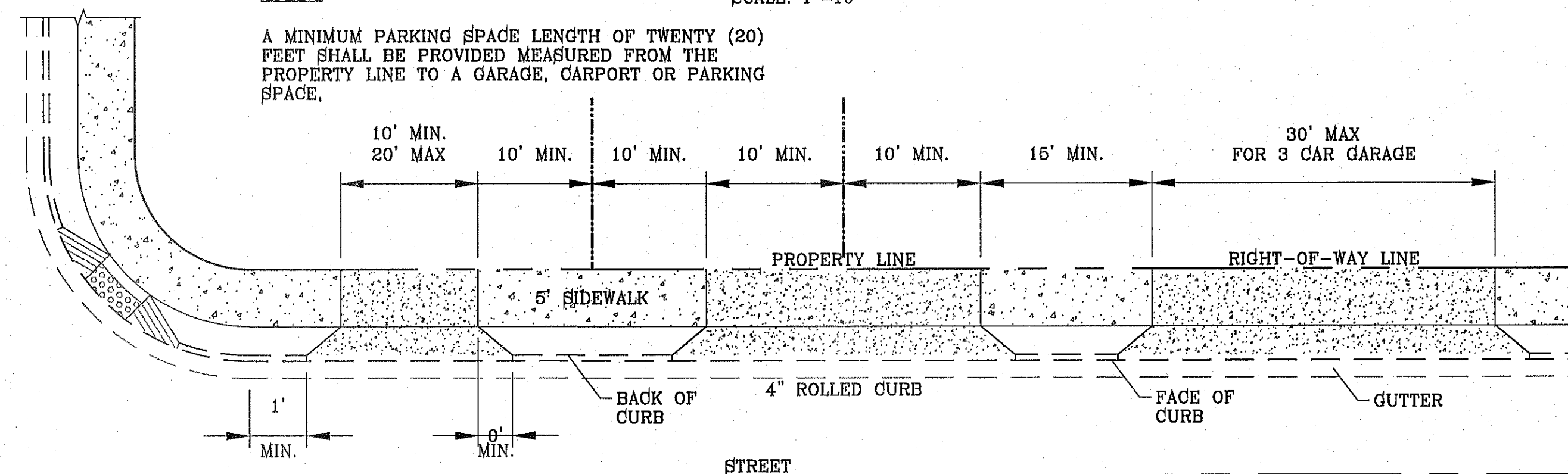
A MINIMUM PARKING SPACE LENGTH OF TWENTY (20) FEET SHALL BE PROVIDED MEASURED FROM THE PROPERTY LINE TO A GARAGE, CARPORT OR PARKING SPACE.



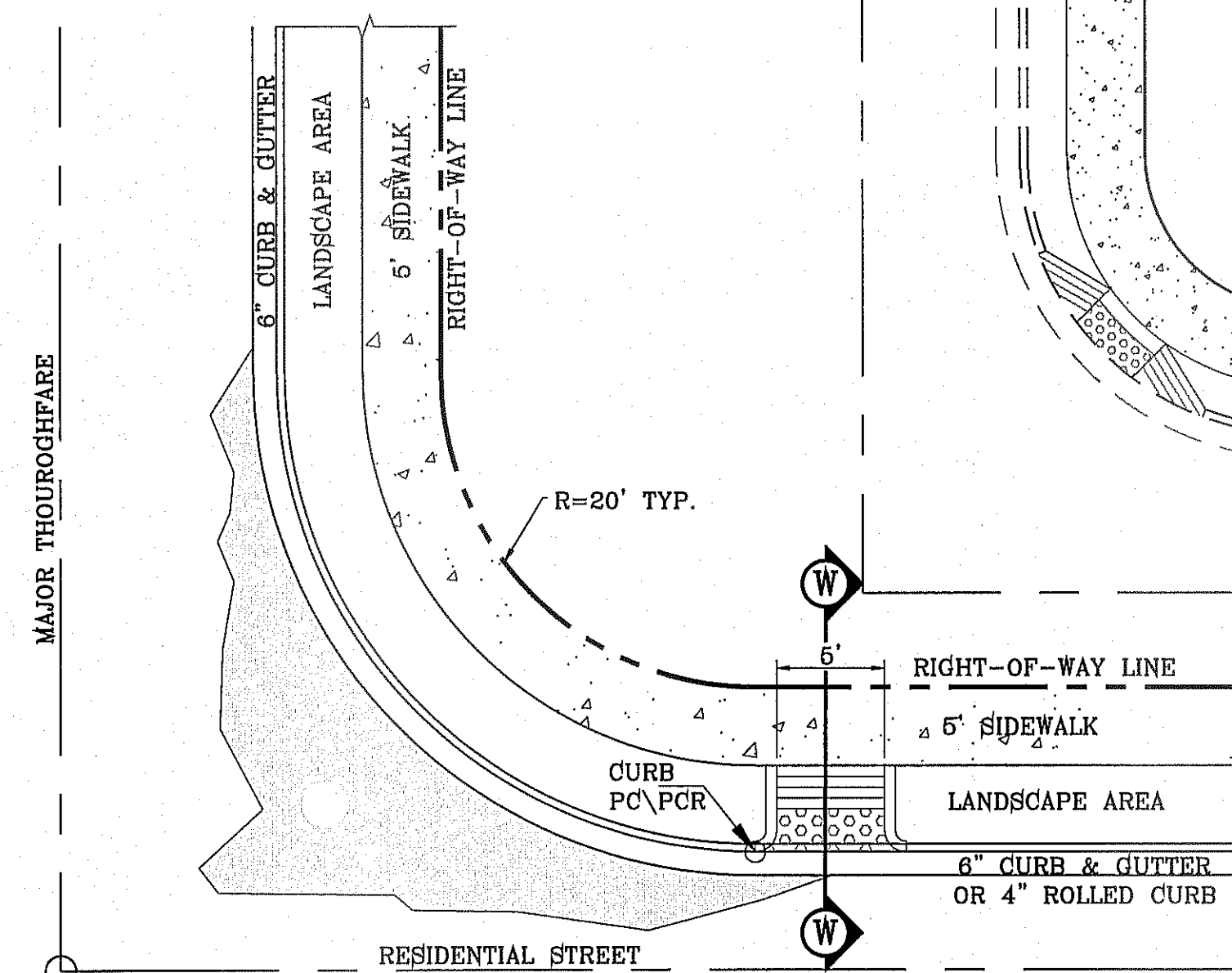
TYPICAL RESIDENTIAL DRIVEWAY WITH CURB & GUTTER
SCALE: 1"=10'

NOTE:

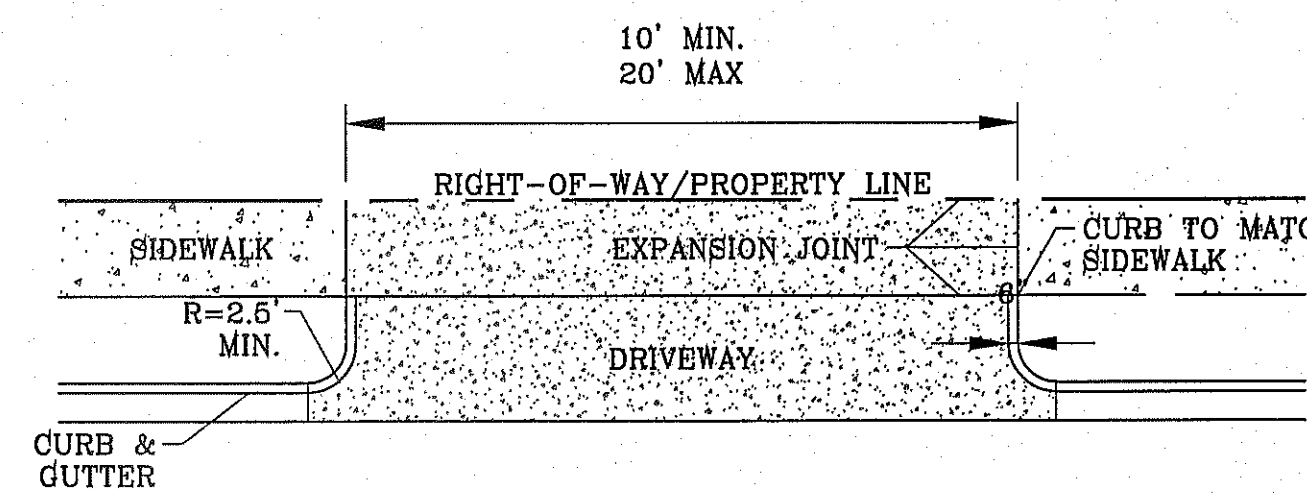
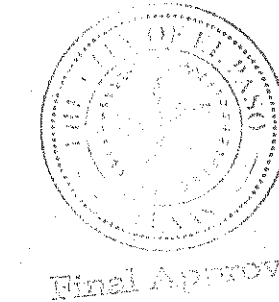
A MINIMUM PARKING SPACE LENGTH OF TWENTY (20) FEET SHALL BE PROVIDED MEASURED FROM THE PROPERTY LINE TO A GARAGE, CARPORT OR PARKING SPACE.



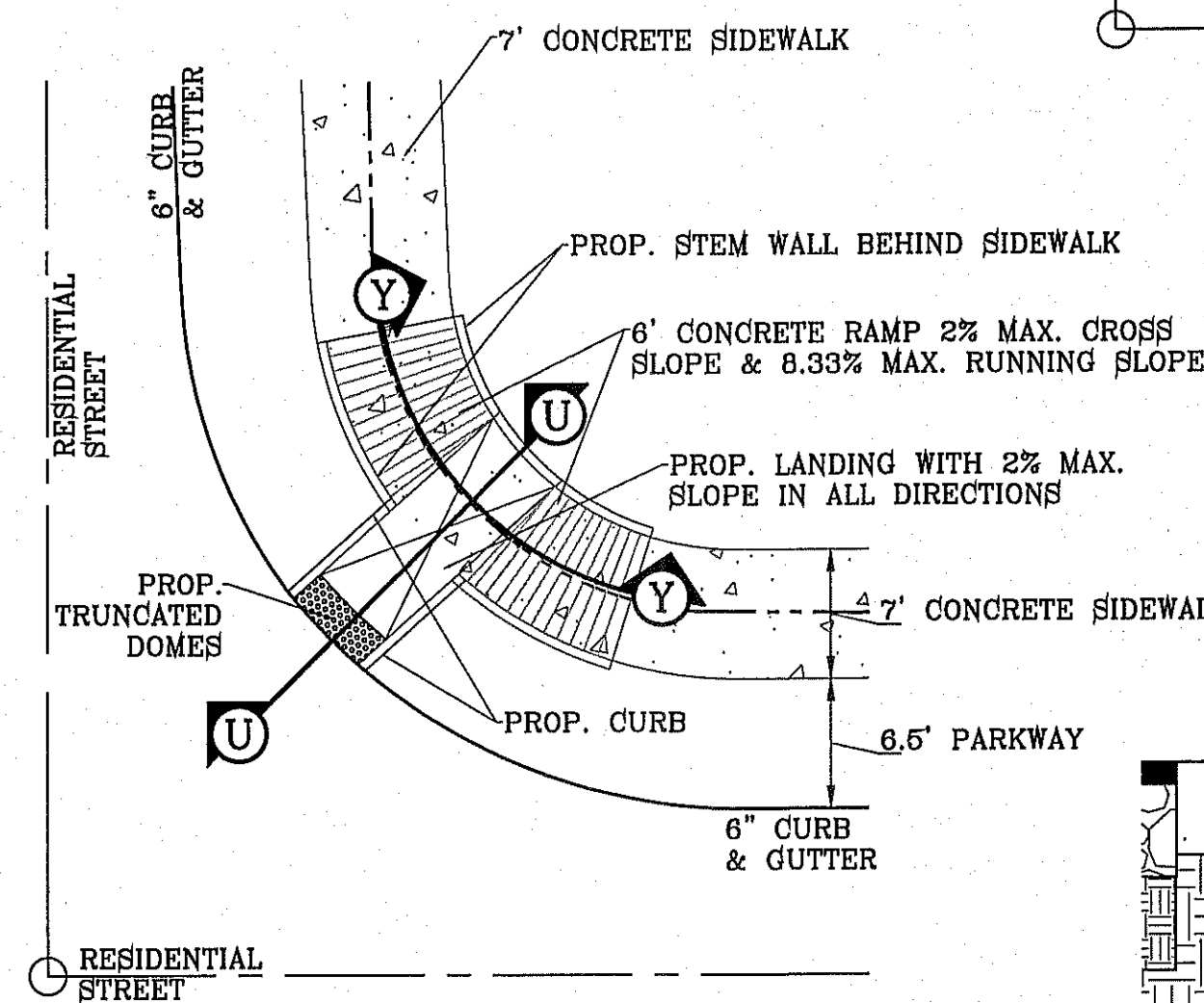
TYPICAL RESIDENTIAL DRIVEWAY WITH ROLLED CURB
SCALE: 1"=10'



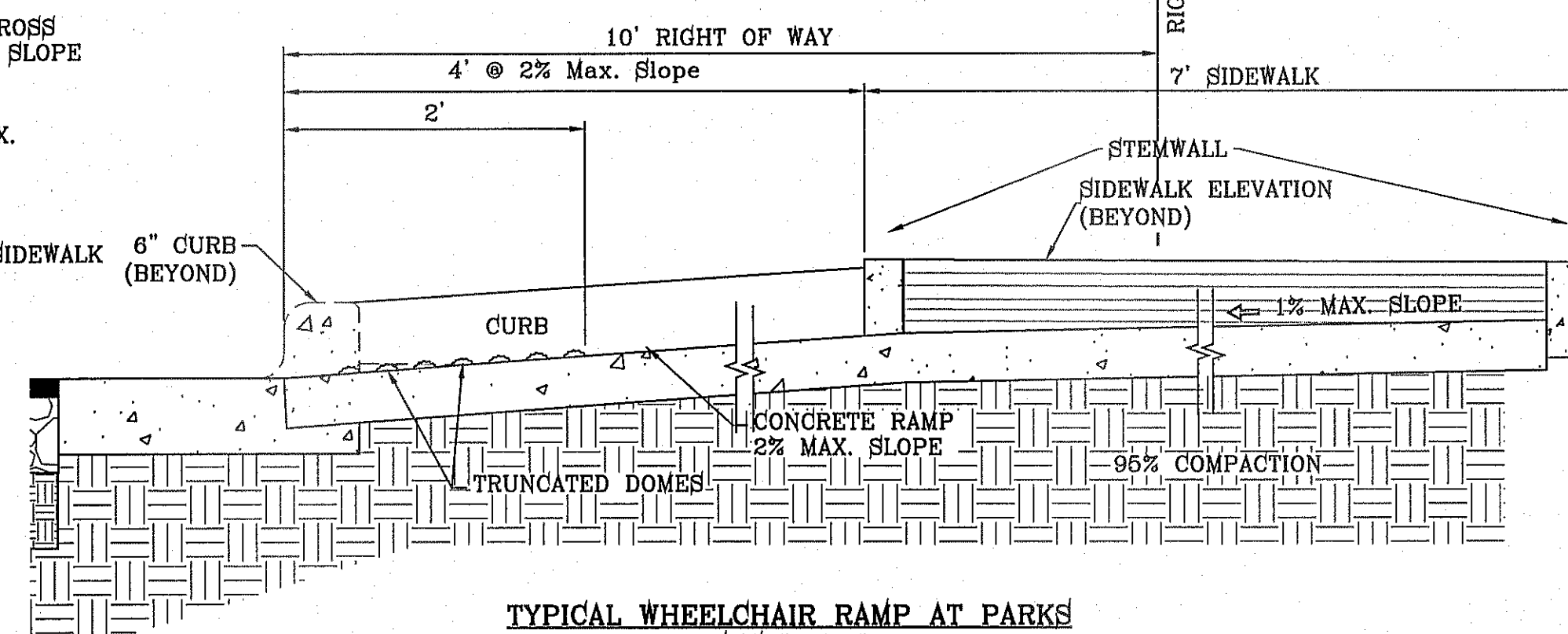
DIRECTIONAL RAMP
SCALE: 1"=10'



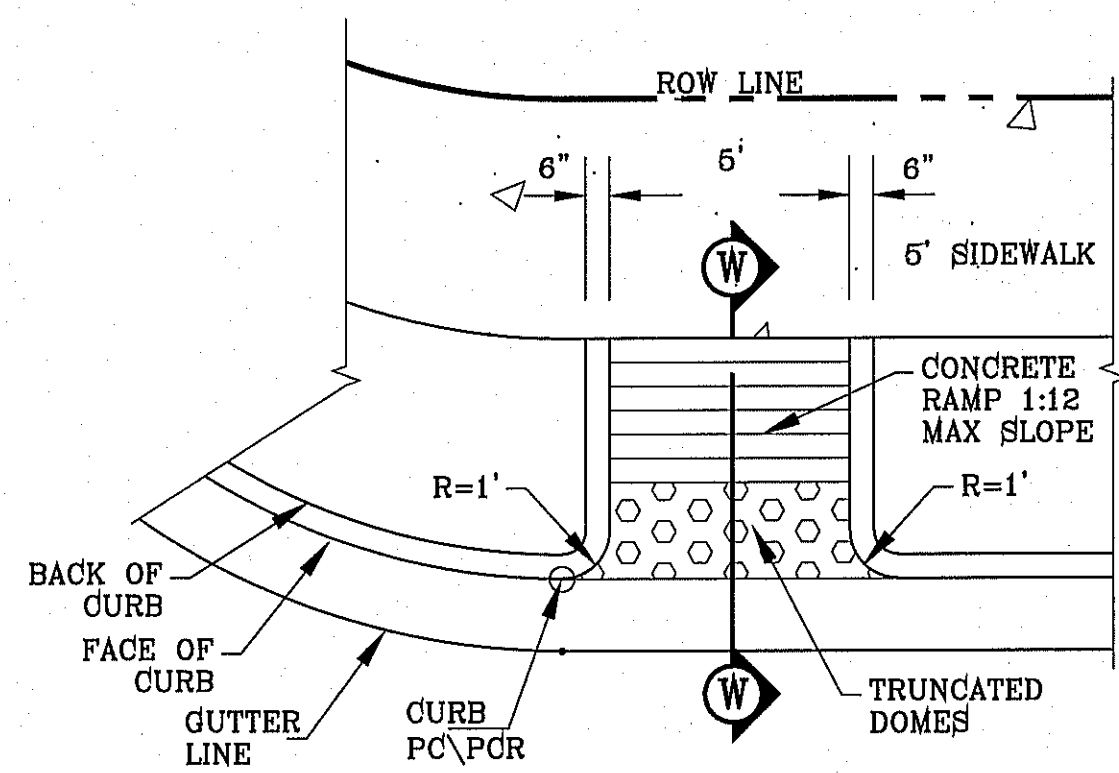
DRIVEWAY DETAIL
SCALE: 1"=10'



WHEELCHAIR RAMP AT PARK
SCALE: 1"=10'

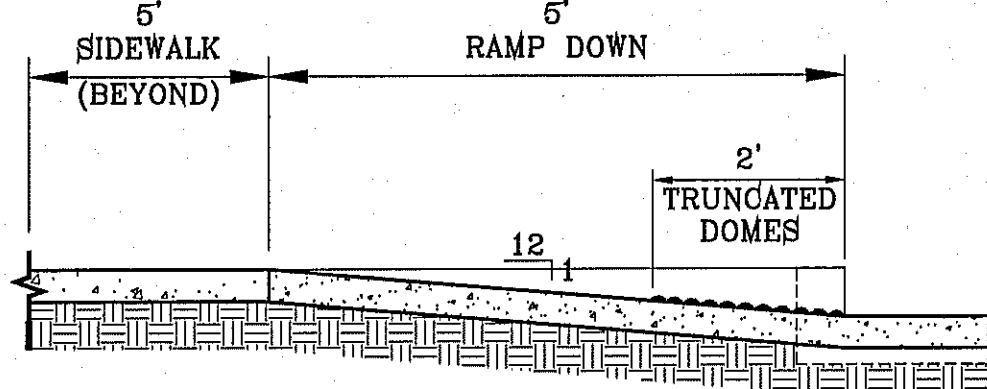


TYPICAL WHEELCHAIR RAMP AT PARKS SECTION U
SCALE: 1"=1'

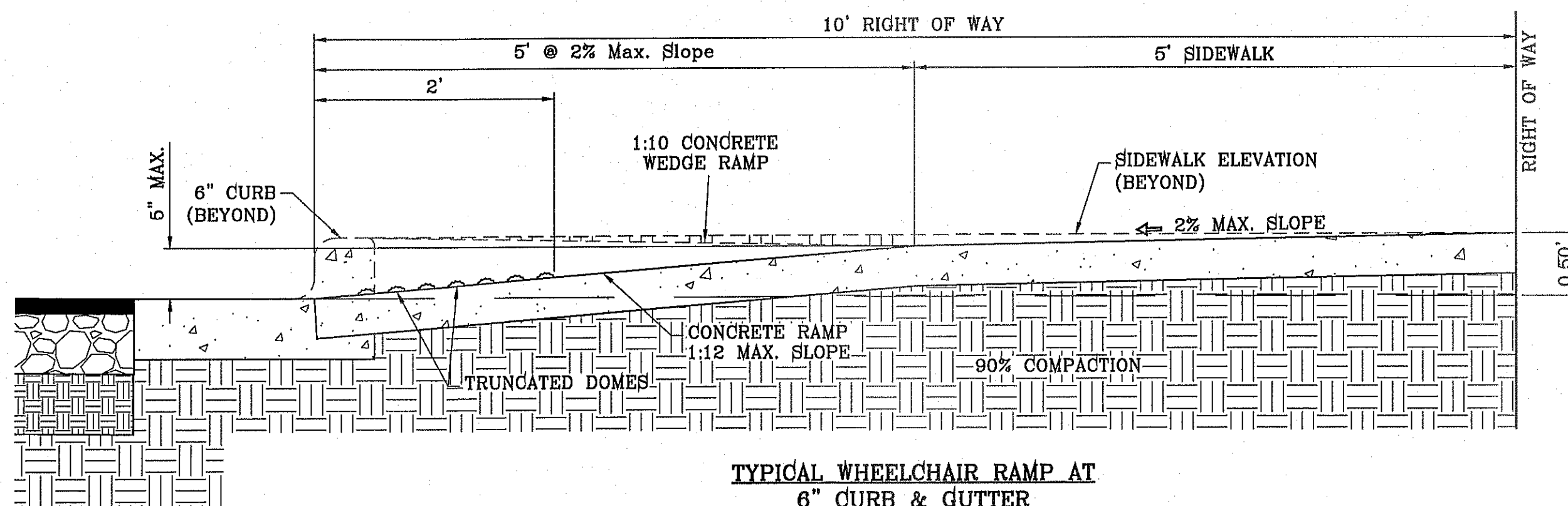


DIRECTIONAL RAMP
SCALE: 1"=4'

ALL ACCESSIBLE ROUTES SHALL NOT EXCEED A RUNNING SLOPE GREATER THAN 1:20. NOWHERE SHALL THE CROSS SLOPE OF AN ACCESSIBLE ROUTE EXCEED 1:50. MAXIMUM SLOPES OF ADJOINING GUTTERS, ROAD SURFACE IMMEDIATELY ADJACENT TO THE CURB RAMP OR ACCESSIBLE ROUTE SHALL NOT EXCEED 1:20. PARKING SPACES AND ACCESS AISLES SHALL BE LEVEL WITH SURFACE SLOPES NOT EXCEEDING 1:50 IN ALL DIRECTIONS. NEW WHEELCHAIR RAMPS SHALL NOT EXCEED A SLOPE OF 1:12.



DIRECTIONAL RAMP SECTION W
SCALE: 1"=2'



TYPICAL WHEELCHAIR RAMP AT 6" CURB & GUTTER SECTION Z
SCALE: 1"=1'

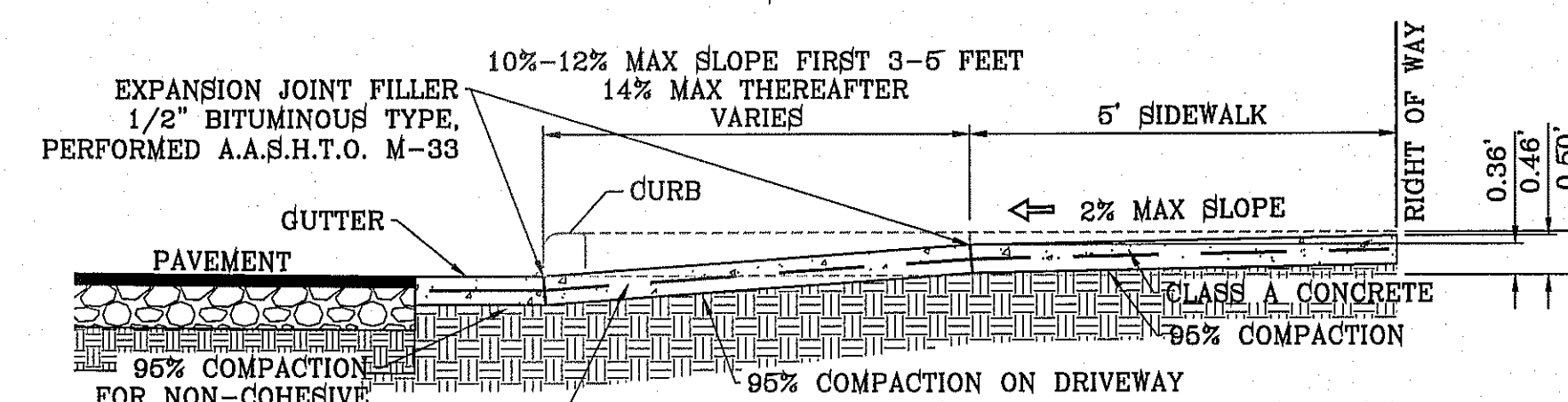
END SECTION

PLAN VIEW

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'



DRIVEWAY SECTION
SCALE: 1"=2'

THICKNESS RESIDENTIAL:
6" WITHOUT W.W.F.
4" WITH 6X6-10/10 W.W.F. COMMERCIAL.
6" WITH 6X6-6/6 W.W.F.

PROJECT NAME: **TERRA DEL ESTE UNIT SEVENTY TWO**

BENCHMARK: CITY MONUMENT AT THE CENTERLINE INTERSECTION OF RALPH BEITSINGER DR. AND GALICENO PL. ELEVATION 4025.93 CITY DATUM

BEING PORTION OF SECTIONS 37 AND 48, BLOCK 79, TOWNSHIP 2, TEXAS AND PACIFIC RAILWAY CO. SURVEYS, CITY OF EL PASO, EL PASO COUNTY, TEXAS CONTAINING: 97.551 ± ACRES

SCALE: AS NOTED

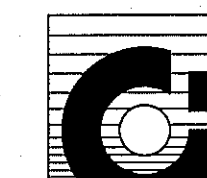
DATE: SEPT. 2013
DESIGN BY: Y.C.
INITIATED BY: R.O.
CHECKED BY: Y.C.
JOB NO.: 112-08

ENGINEER'S SEAL

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

CONDE INC.

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

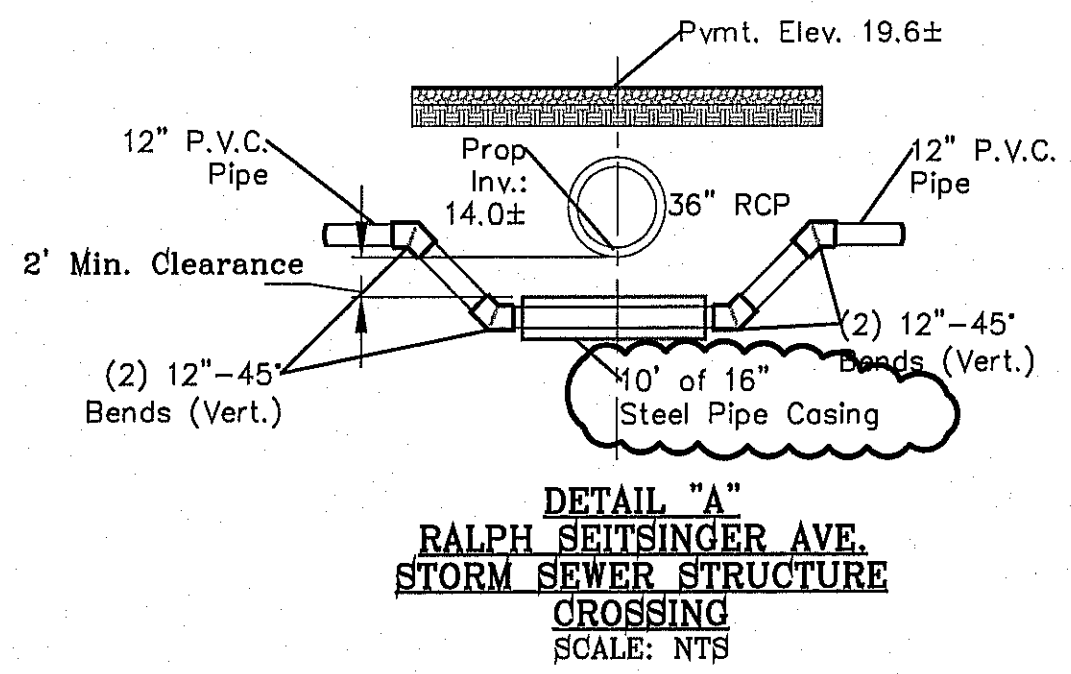


CONDE INC.
REGISTRATION No. F-2321

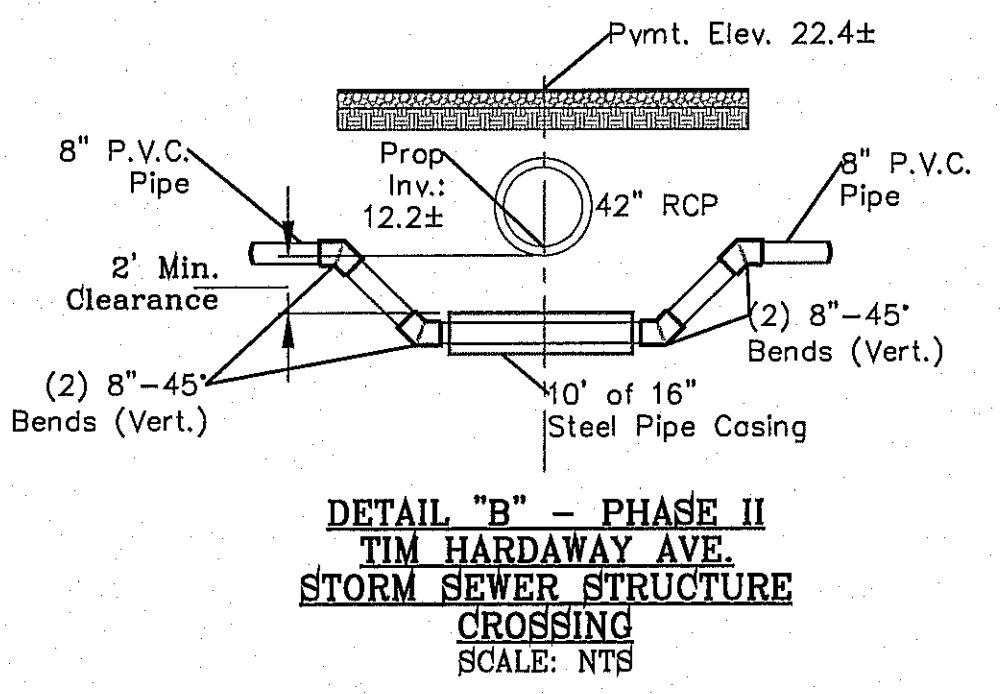
SHEET TITLE

STANDARD DETAILS

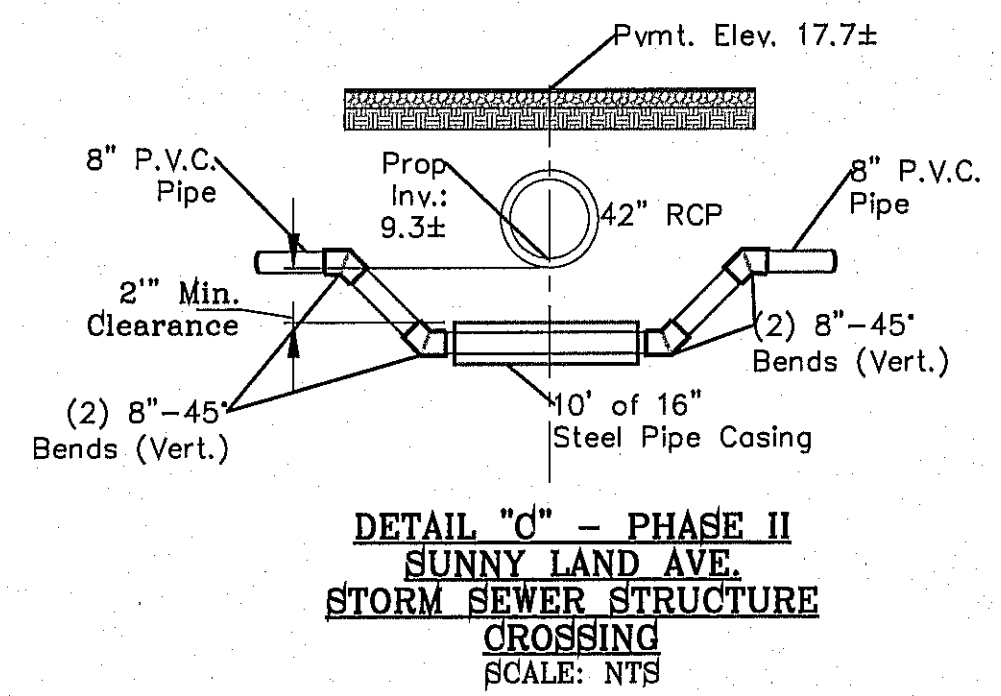
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 FILE LOCATION S:\Subdivisions\72-UD-1\DWG\72-UD-1-WATER-DISTRIBUTION PLOTTED ON Friday, August 08, 2014 10:37:42 AM BY ROGER ORTEGA



DETAIL "A"
RALPH SEITSINGER AVE.
STORM SEWER STRUCTURE
CROSSING
SCALE: NTS



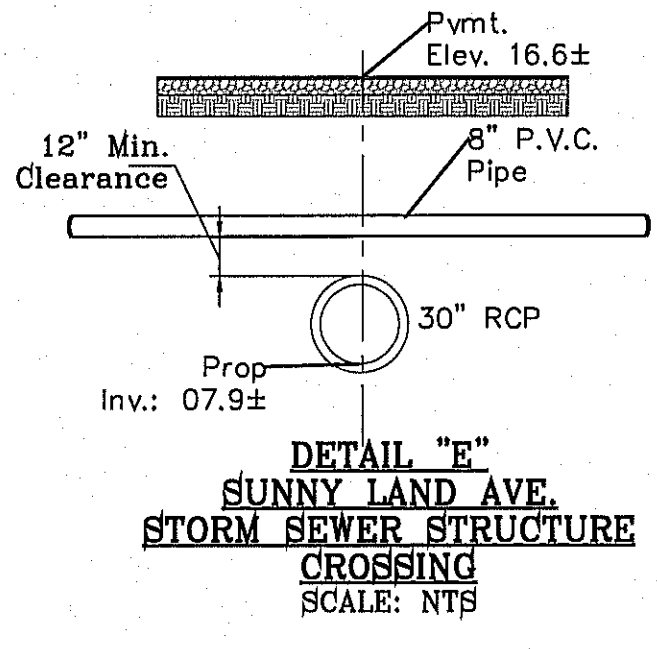
DETAIL "B" - PHASE II
TIM HARDWAY AVE.
STORM SEWER STRUCTURE
CROSSING
SCALE: NTS



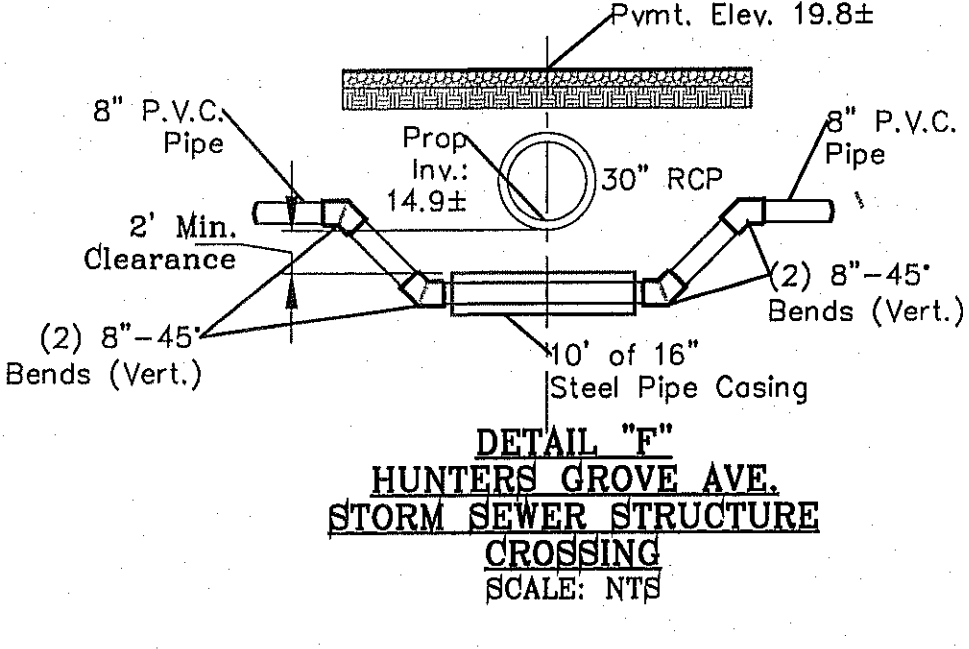
DETAIL "C" - PHASE II
SUNNY LAND AVE.
STORM SEWER STRUCTURE
CROSSING
SCALE: NTS

MATCH LINE
SEE SHEET 58

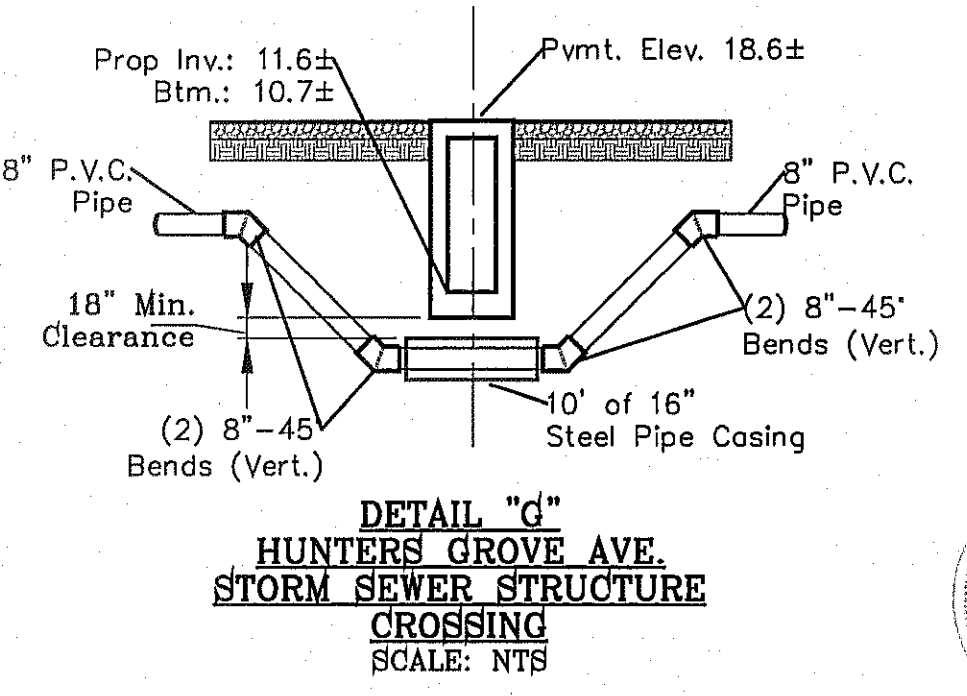
MATCH LINE
SEE SHEET 58



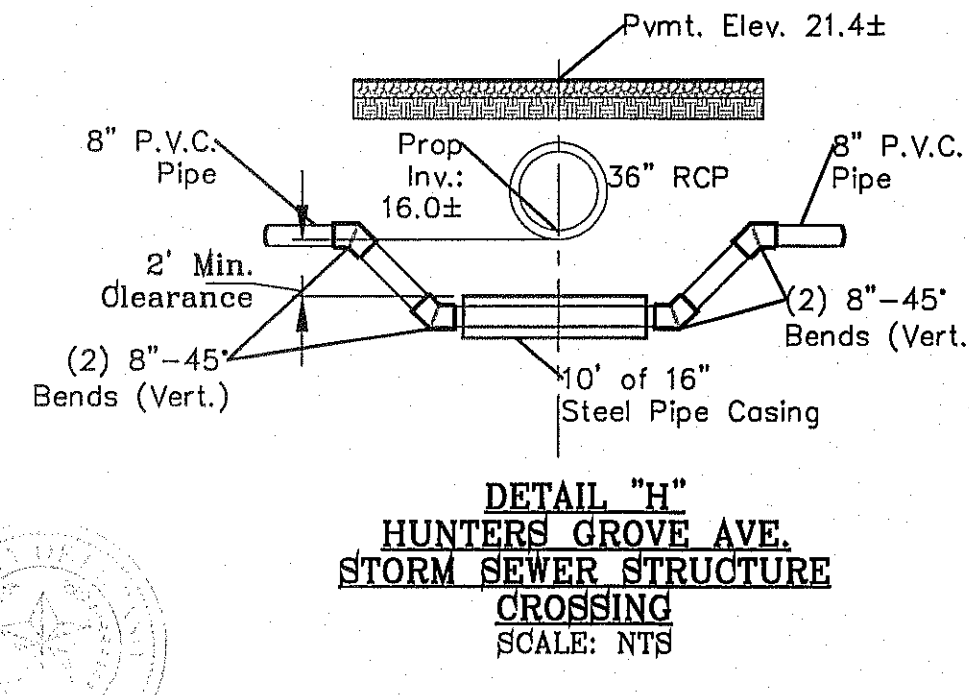
DETAIL "E"
SUNNY LAND AVE.
STORM SEWER STRUCTURE
CROSSING
SCALE: NTS



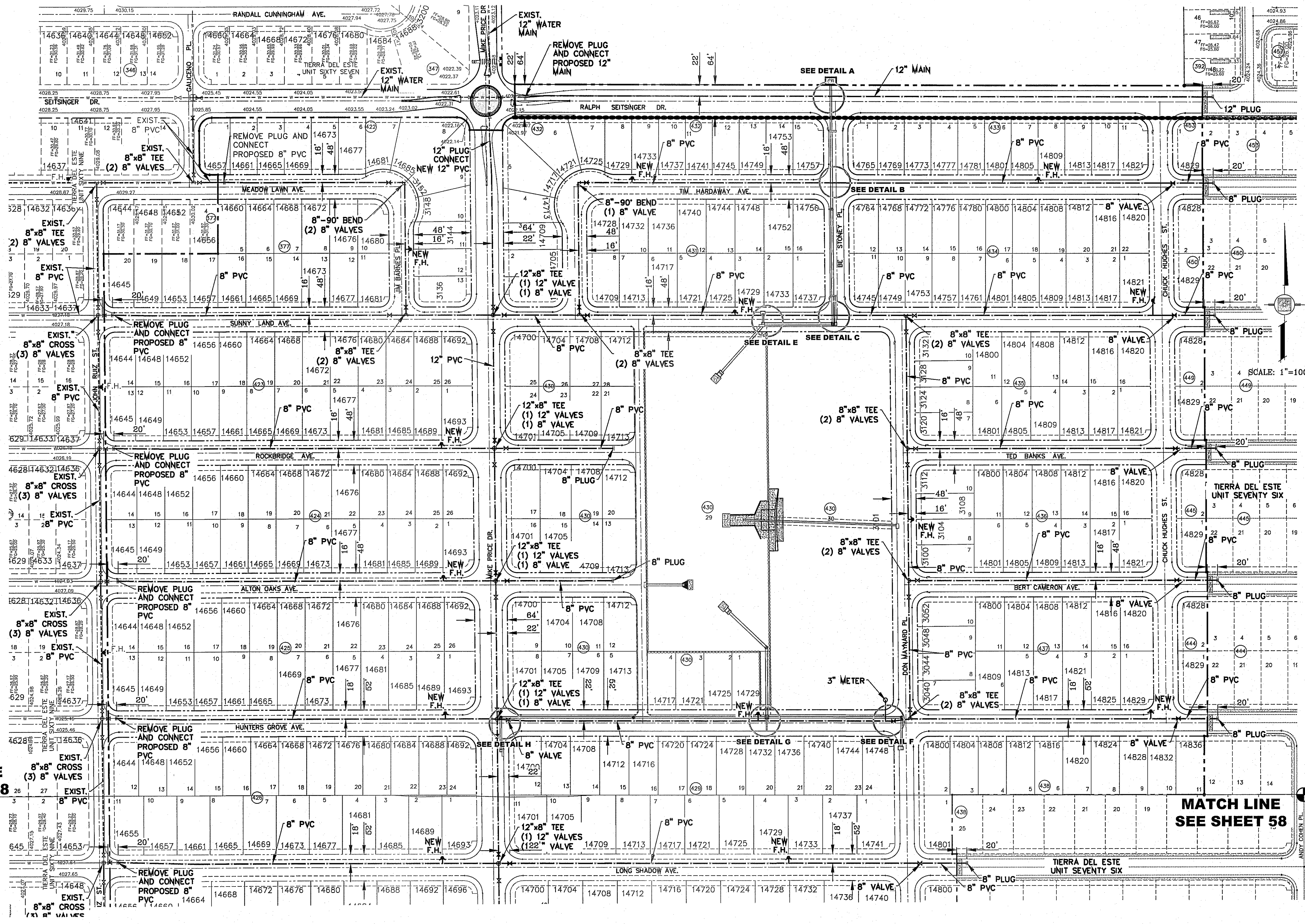
DETAIL "F"
HUNTERS GROVE AVE.
STORM SEWER STRUCTURE
CROSSING
SCALE: NTS



DETAIL "G"
HUNTERS GROVE AVE.
STORM SEWER STRUCTURE
CROSSING
SCALE: NTS



DETAIL "H"
HUNTERS GROVE AVE.
STORM SEWER STRUCTURE
CROSSING
SCALE: NTS



STREET NAMES	LENGTH, SIZE, TYPE OF PIPE, PIPE CLASS, AND PHASE
RALPH SEITSINGER DR.	INSTALL 1,346 FEET OF 12" P.V.C. MAIN PIPE (CLASS 236)
MEADOW LAWN AVE.	INSTALL 365 FEET OF 8" P.V.C. PIPE (CLASS 236)
JIM BARNES PL.	INSTALL 269 FEET OF 8" P.V.C. PIPE (CLASS 236)
TIM HARDWAY AVE.	INSTALL 1,504 FEET OF 8" P.V.C. PIPE (CLASS 236)
SUNNY LAND AVE.	INSTALL 2,162 FEET OF 8" P.V.C. PIPE (CLASS 236)
ROCKRIDGE AVE.	INSTALL 981 FEET OF 8" P.V.C. PIPE (CLASS 236)
ALTON OAKS AVE.	INSTALL 971 FEET OF 8" P.V.C. PIPE (CLASS 236)
HUNTERS GROVE AVE.	INSTALL 2,160 FEET OF 8" P.V.C. PIPE (CLASS 236)
LONG SHADOW AVE.	INSTALL 1,665 FEET OF 8" P.V.C. PIPE (CLASS 236)
HOLLY SPRINGS AVE.	INSTALL 1,650 FEET OF 8" P.V.C. PIPE (CLASS 236)
TED BANKS AVE.	INSTALL 604 FEET OF 8" P.V.C. PIPE (CLASS 236)
BERT CAMERON AVE.	INSTALL 604 FEET OF 8" P.V.C. PIPE (CLASS 236)
DON MAYNARD PL.	INSTALL 788 FEET OF 8" P.V.C. PIPE (CLASS 236)
MIKE PRICE DR.	INSTALL 2,027 FEET OF 12" P.V.C. PIPE (CLASS 236)
MIKE PRICE DR. BETWEEN HOLLY SPRINGS AND PEBBLE HILLS	INSTALL 95 FEET OF 8" P.V.C. PIPE (CLASS 236)
PEBBLE HILLS BLVD.	INSTALL 782 FEET OF 12" P.V.C. PIPE (CLASS 236)

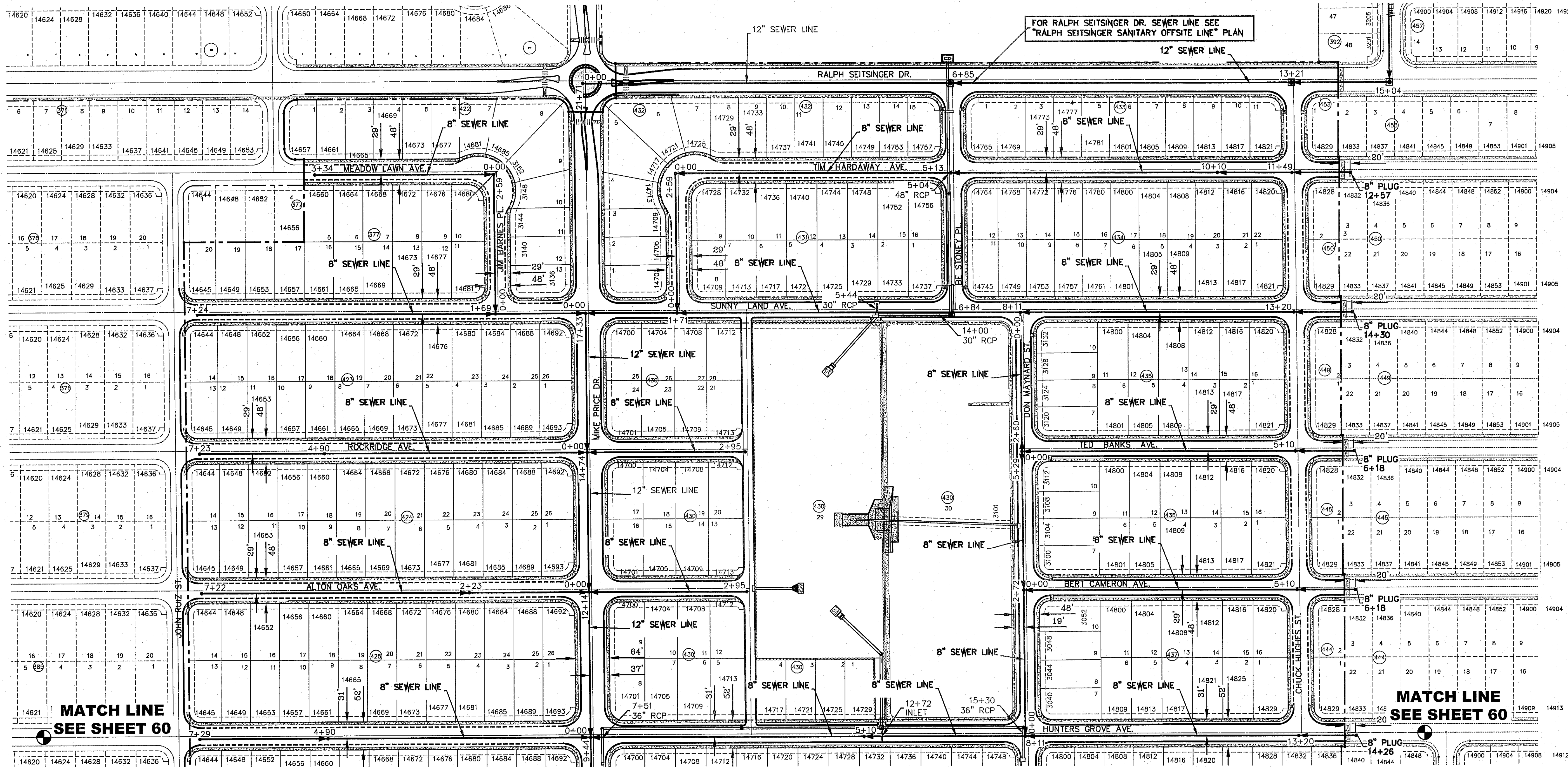
PROJECT NAME: TIERRA DEL ESTE UNIT SEVENTY TWO
 CITY: MONUMENT AT THE CENTERLINE INTERSECTION OF RALPH SEITSINGER DR. AND CALLENO PL. ELEVATION: 4025.83 CITY DATUM
 REVISIONS:
 DATE: 10-28-2013
 CITY: REVISIONS - MISC REVISION
 BY: R.O.
 1-13-2014
 3RD PSB REDLINES
 R.O.
 1-30-2014
 PSB REDLINES
 R.O.
 2-21-2014
 ADD VALVES ON MIKE PRICE
 R.O.

PROJECT NAME: TIERRA DEL ESTE UNIT SEVENTY TWO
 BRING PORTION OF SECTIONS 37 AND 48, BLOCK 79, TOWNSHIP 2, TEXAS AND PACIFIC RAILWAY CO. SURVEYS, CITY OF MONUMENT, TEXAS CONTAINING: 97.651 ± ACRES

SCALE: 1"=100'
 HORIZ: 1"=100'
 VERT: 1"=10'
 DATE: SEPT. 2013
 DESIGN BY: Y.C.
 INITIATED BY: R.O.
 CHECKED BY: Y.C.
 JOB NO.: 112-08

CONDE INC.
 ENGINEERING / PLANNING
 SURVEYING / GPS
 6080 SURETY DR. STE 100
 EL PASO, TEXAS 79905
 PHONE: (915) 592-0293
 FAX: (915) 592-0286

WATER DISTRIBUTION PLAN
 SHEET TITLE
 SHT 57 OF 70



SCALE: 1" = 100'

REVISIONS

DATE	BY	REVISIONS
10-28-2013	R.O.	PSB REDLINES
11-21-2013	R.O.	2ND PSB REDLINES
1-13-2014	R.O.	3RD PSB REDLINES
1-30-2014	R.O.	PSB REDLINES

PROJECT NAME
**TERRA DEL ESTE
 UNIT SEVENTY TWO**

RECORD PORTION OF SECTIONS 37 AND 48, BLOCK 79,
 TOWNSHIP 2, TEXAS AND PACIFIC RAILWAY CO. SURVEYS,
 CITY OF EL PASO, EL PASO COUNTY, TEXAS
 CONTAINING: 97.551 ± ACRES

ENGINEER'S SEAL

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

DATE: SEPT. 2013
 DESIGN BY: Y.C.
 INITIATED BY: R.O.
 CHECKED BY: Y.C.
 JOB NO.: 112-08

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

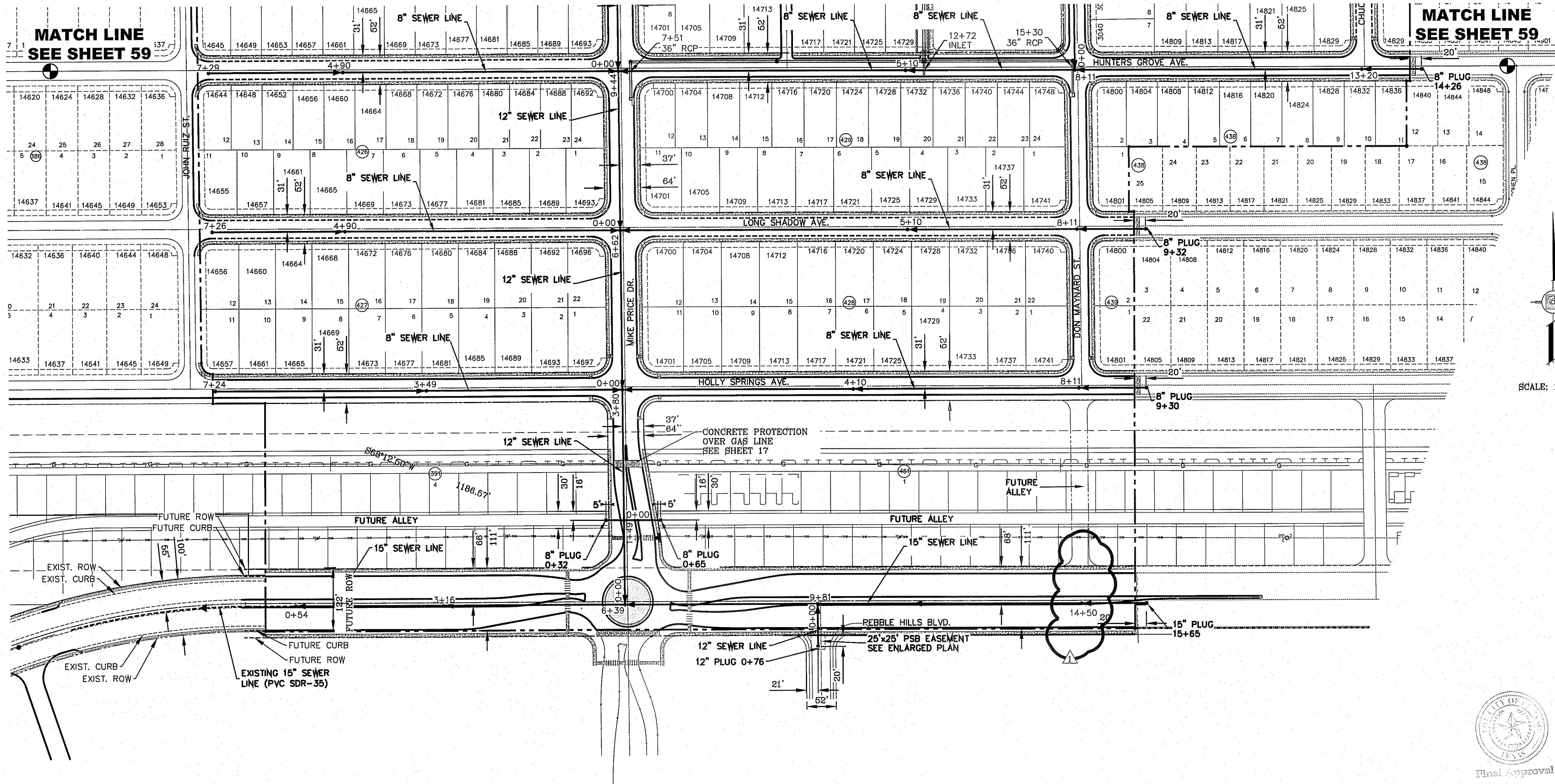
CONDE INC.
 REGISTRATION No. F-2321

SHEET TITLE

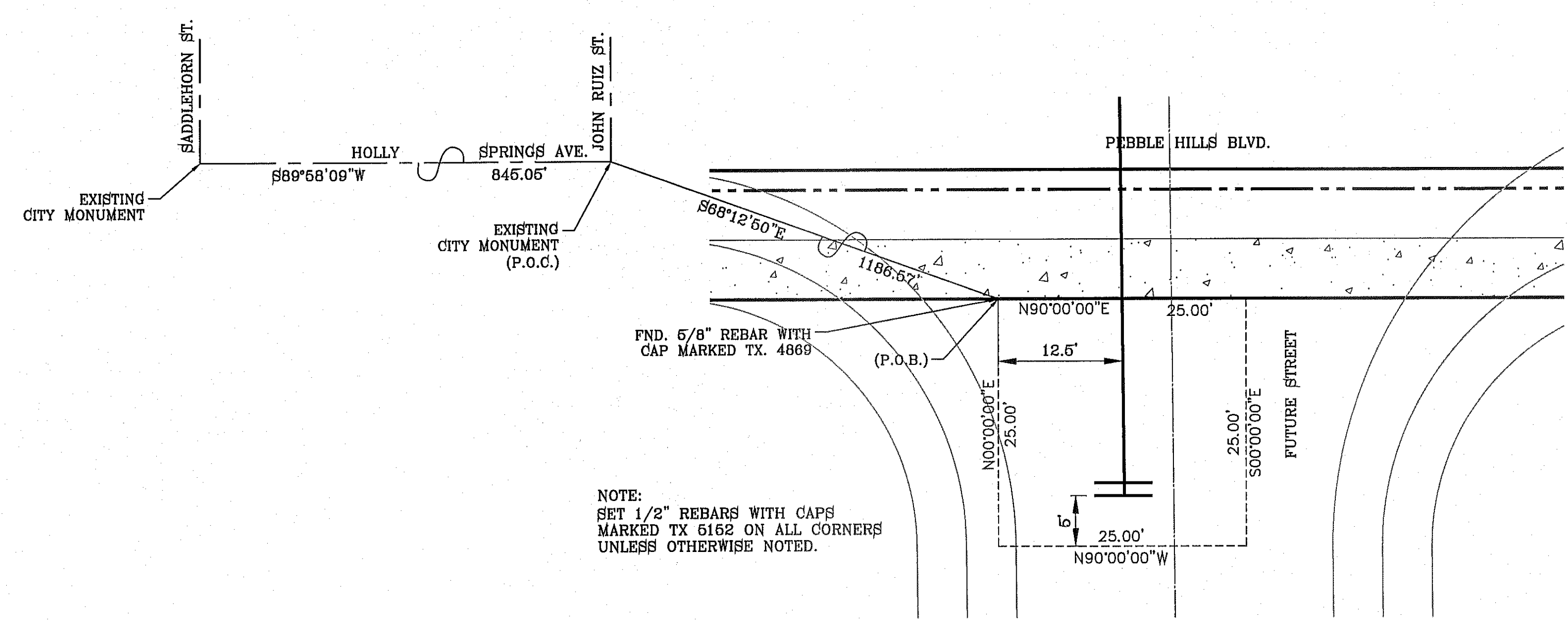
**SEWER
 DISTRIBUTION**

STREET NAMES	LENGTH, SIZE, TYPE OF PIPE, PIPE CLASS
PEBBLE HILLS BLVD.	INSTALL 1514 FEET OF 15" P.V.C. PIPE (SDR 35)
STUBOUT AT MH 8481	INSTALL 76 FEET OF 12" P.V.C. PIPE (SDR 35)
RALPH SEITSINGER DR.	INSTALL 1441 FEET OF 12" P.V.C. PIPE (SDR 35)
SUNNY LAND AVE.	INSTALL 2153 FEET OF 8" P.V.C. PIPE (SDR 35)
ROCKRIDGE AVE.	INSTALL 1018 FEET OF 8" P.V.C. PIPE (SDR 35)
ALTON OAKS AVE.	INSTALL 1017 FEET OF 8" P.V.C. PIPE (SDR 35)
HUNTERS GROVE AVE.	INSTALL 2155 FEET OF 8" P.V.C. PIPE (SDR 35)
LONG SHADOW AVE.	INSTALL 1657 FEET OF 8" P.V.C. PIPE (SDR 35)
HOLLY SPRINGS AVE.	INSTALL 1654 FEET OF 8" P.V.C. PIPE (SDR 35)
MEADOW LAWN AVE.	INSTALL 334 FEET OF 8" P.V.C. PIPE (SDR 35)
JIM BARNES PL.	INSTALL 259 FEET OF 8" P.V.C. PIPE (SDR 35)
TIM HARDWAY AVE.	INSTALL 1517 FEET OF 8" P.V.C. PIPE (SDR 35)
MIKE PRICE DR.	INSTALL 1733 FEET OF 12" P.V.C. PIPE (SDR 35)
MIKE PRICE DR. BETWEEN HOLLY SPRINGS AND PEBBLE HILLS	INSTALL 97 FEET OF 8" P.V.C. PIPE (SDR 35)
DON MAYNARD PL.	INSTALL 789 FEET OF 8" P.V.C. PIPE (SDR 35)
TED BANKS AVE.	INSTALL 618 FEET OF 8" P.V.C. PIPE (SDR 35)
BERT CANERON AVE.	INSTALL 618 FEET OF 8" P.V.C. PIPE (SDR 35)
WILLIE CAGER PL.	INSTALL 440 FEET OF 8" P.V.C. PIPE (SDR 35)

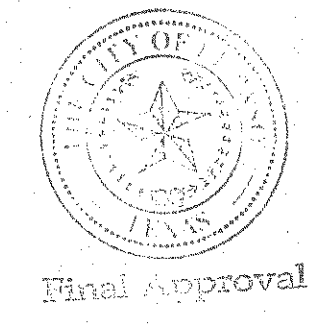
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SCALE: 1" = 100'



STREET NAMES	LENGTH, SIZE, TYPE OF PIPE, PIPE CLASS
PEBBLE HILLS BLVD.	INSTALL 1511 FEET OF 15" P.V.C. PIPE (SDR 35)
STUBOUT AT MH 9+81	INSTALL 76 FEET OF 12" P.V.C. PIPE (SDR 35)
RALPH SEITZINGER DR.	INSTALL 144 FEET OF 12" P.V.C. PIPE (SDR 35)
SUNNY LAND AVE.	INSTALL 2153 FEET OF 8" P.V.C. PIPE (SDR 35)
ROCKRIDGE AVE.	INSTALL 1018 FEET OF 8" P.V.C. PIPE (SDR 35)
ALTON OAKS AVE.	INSTALL 1017 FEET OF 8" P.V.C. PIPE (SDR 35)
HUNTERS GROVE AVE.	INSTALL 2155 FEET OF 8" P.V.C. PIPE (SDR 35)
LONG SHADOW AVE.	INSTALL 1657 FEET OF 8" P.V.C. PIPE (SDR 35)
HOLLY SPRINGS AVE.	INSTALL 1654 FEET OF 8" P.V.C. PIPE (SDR 35)
MEADOW LAWN AVE.	INSTALL 334 FEET OF 8" P.V.C. PIPE (SDR 35)
JIM BARNES PL.	INSTALL 259 FEET OF 8" P.V.C. PIPE (SDR 35)
TIM HARDAWAY AVE.	INSTALL 1517 FEET OF 8" P.V.C. PIPE (SDR 35)
MIKE PRICE DR.	INSTALL 1733 FEET OF 12" P.V.C. PIPE (SDR 35)
MIKE PRICE DR. BETWEEN HOLLY SPRINGS AND PEBBLE HILLS	INSTALL 97 FEET OF 8" P.V.C. PIPE (SDR 35)
DON MAYNARD PL.	INSTALL 789 FEET OF 8" P.V.C. PIPE (SDR 35)
TED BANKS AVE.	INSTALL 618 FEET OF 8" P.V.C. PIPE (SDR 35)
BERT CANERON AVE.	INSTALL 618 FEET OF 8" P.V.C. PIPE (SDR 35)
WILLIE CAGER PL.	INSTALL 440 FEET OF 8" P.V.C. PIPE (SDR 35)



8-28-2014 removed mh at sta 11+49 (pebble hills)
 R.O.
 8/17/14 EASEMENT ADDITION
 R.R.
 6/16/14 REMOVAL OF STUBOUT AT 0+00 MIKE PRICE
 R.R.
 5/21/14 REMOVAL OF 8" STUBOUT AT 14+50
 R.R.
 6-12-2014 ADDED 12" STUBOUT AT PEBBLE HILLS
 R.O.

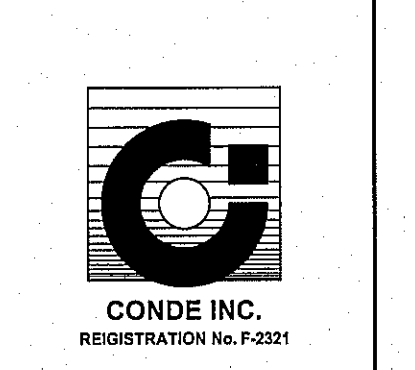
REVISIONS

DATE	BY	REVISIONS
10-28-2013	PSB	PSB REDLINES
11-21-2013	PSB	2ND PSB REDLINES
1-13-2014	PSB	3RD PSB REDLINES
1-30-2014	PSB	PSB REDLINES

PROJECT NAME
**TERRA DEL ESTE
 UNIT SEVENTY TWO**
 BEING PORTION OF SECTIONS 37 AND 48, BLOCK 79,
 TOWNSHIP 2, TEXAS AND PACIFIC RAILWAY CO. SURVEYS,
 CITY OF EL PASO, EL PASO COUNTY, TEXAS
 CONTAINING: 87.551± ACRES

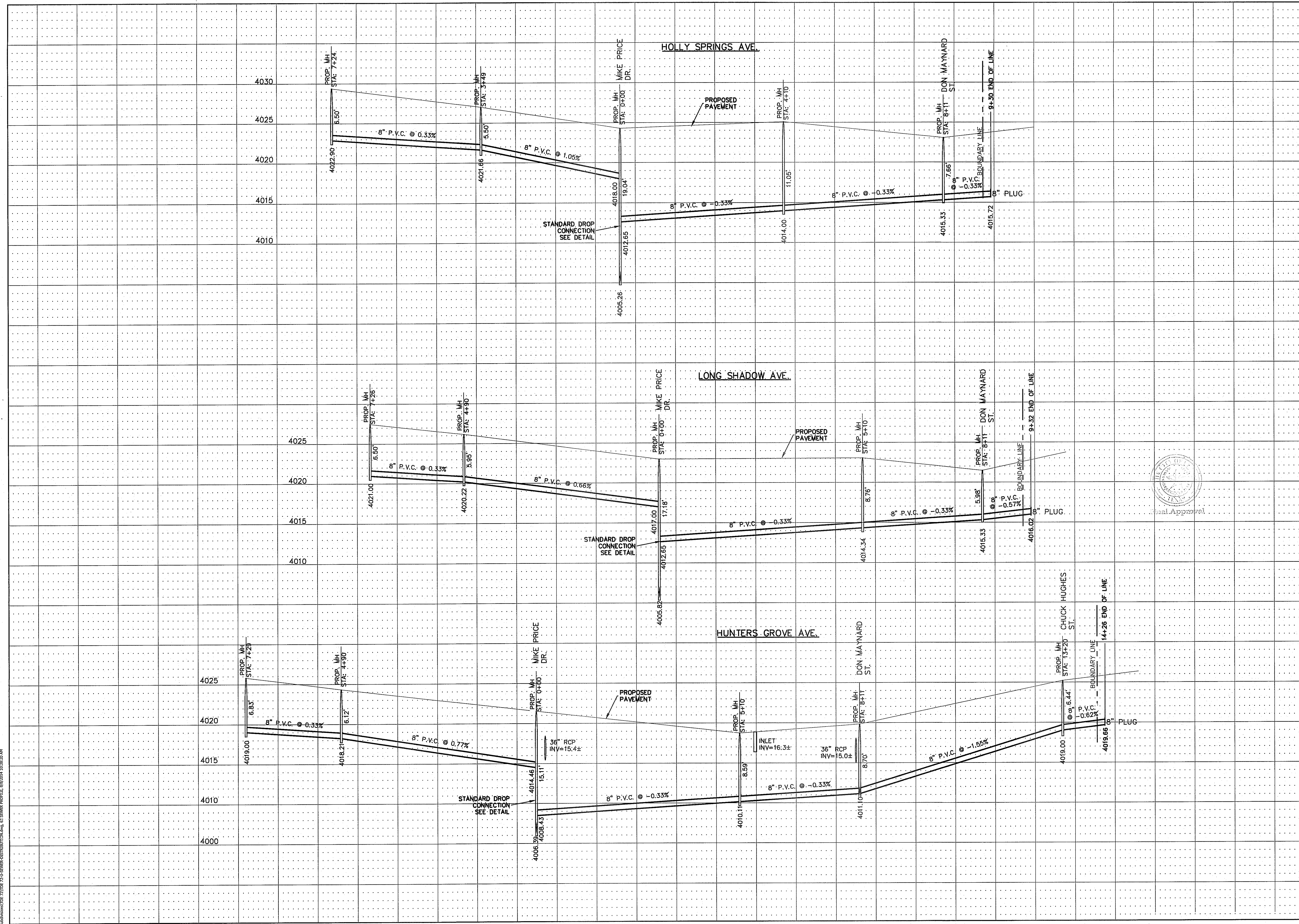
ENGINEER'S SEAL
 S C A L E
 HORIZ: 1" = 100'
 VERT: ---
 DATE: SEPT. 2013
 DESIGN BY: Y.C.
 INITIATED BY: R.O.
 CHECKED BY: Y.C.
 NOB NO.: 112-08

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
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CONDE INC.
 ENGINEERING / PLANNING
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 6080 SURETY DR. STE 100
 EL PASO, TEXAS 79905
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SHEET TITLE
SEWER PROFILE

SHT 62 OF 70

SCALE
 HORIZ: 1" = 100'
 VERT: 1" = 5'

DATE: SEPT. 2013
DESIGN BY: Y.C.
INITIATED BY: R.O.
CHECKED BY: Y.C.
JOB NO.: 112-08

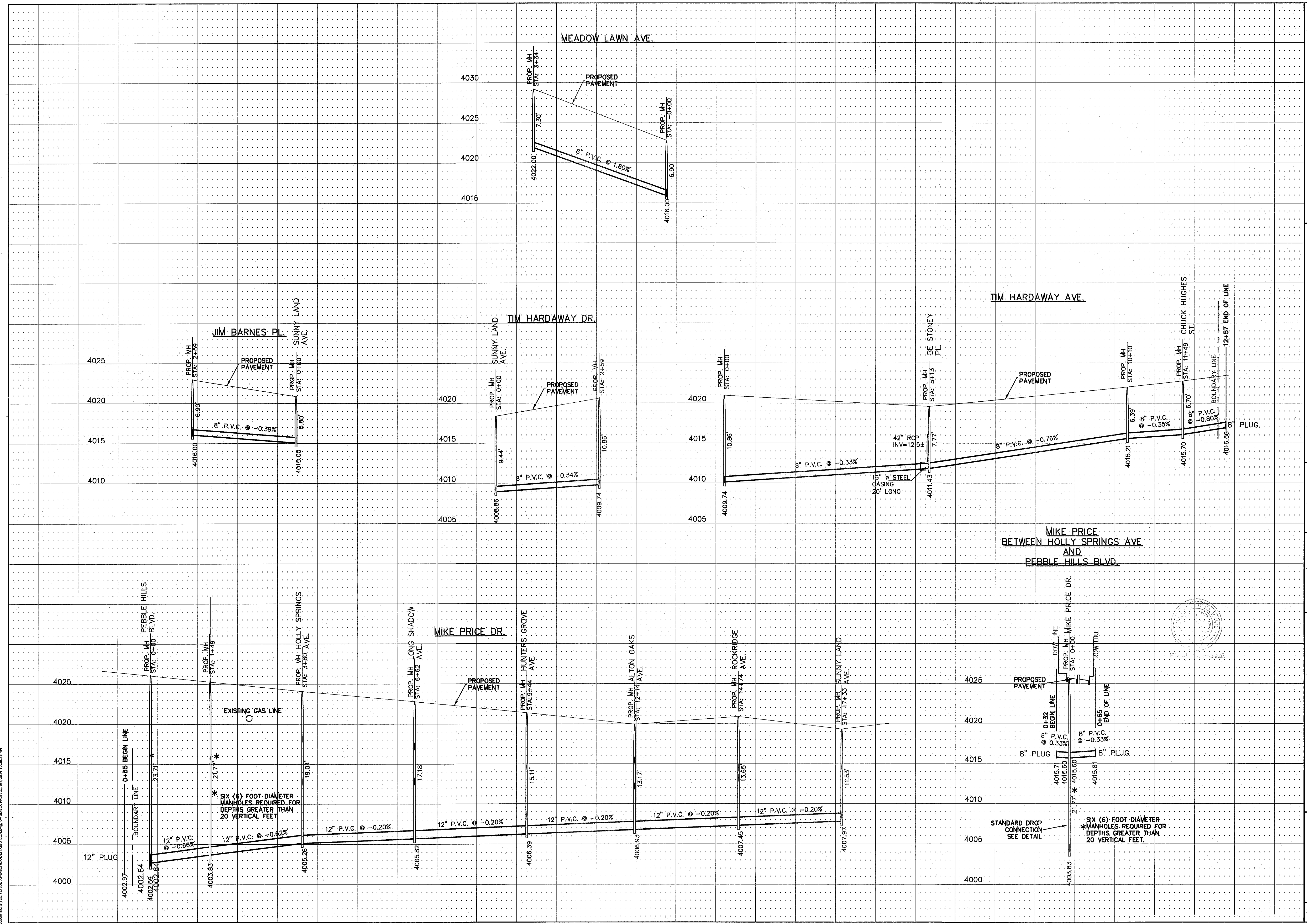
PROJECT NAME
TERRA DEL ESTE
UNIT SEVENTY TWO
 BEING PORTION OF SECTIONS 37 AND 48, BLOCK 79
 TOWNSHIP 2, TEXAS AND PACIFIC RAILWAY CO. SURVEYS,
 CITY OF EL PASO, EL PASO COUNTY, TEXAS
 CONTAINING: 97.561± ACRES

BENCHMARK
 CITY MONUMENT AT THE CENTERLINE INTERSECTION OF
 RALPH SETTRINGER DR. AND GALICENO PL.
 ELEVATION 4025.83 CITY DATUM

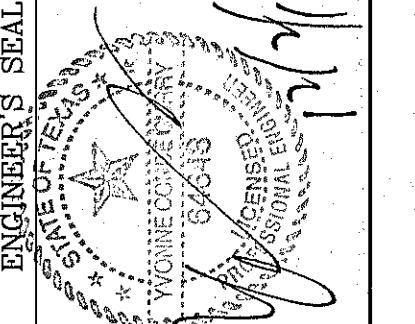
REVISIONS

DATE	BY
10-28-2013	P.S.B. REDLINES
11-21-2013	2ND P.S.B. REDLINES
1-13-2014	3RD P.S.B. REDLINES
1-30-2014	P.S.B. REDLINES

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SCALE
 HORIZ: 1" = 100'
 VERT: 1" = 6'
 DATE: SEPT. 2013
 DESIGN BY: Y.C.
 INITIATED BY: R.O.
 CHECKED BY: Y.C.
 JOB NO.: 112-08

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
SEWER PROFILE

SHT 64 OF 70

PROJECT NAME
TIERRA DEL ESTE UNIT SEVENTY TWO

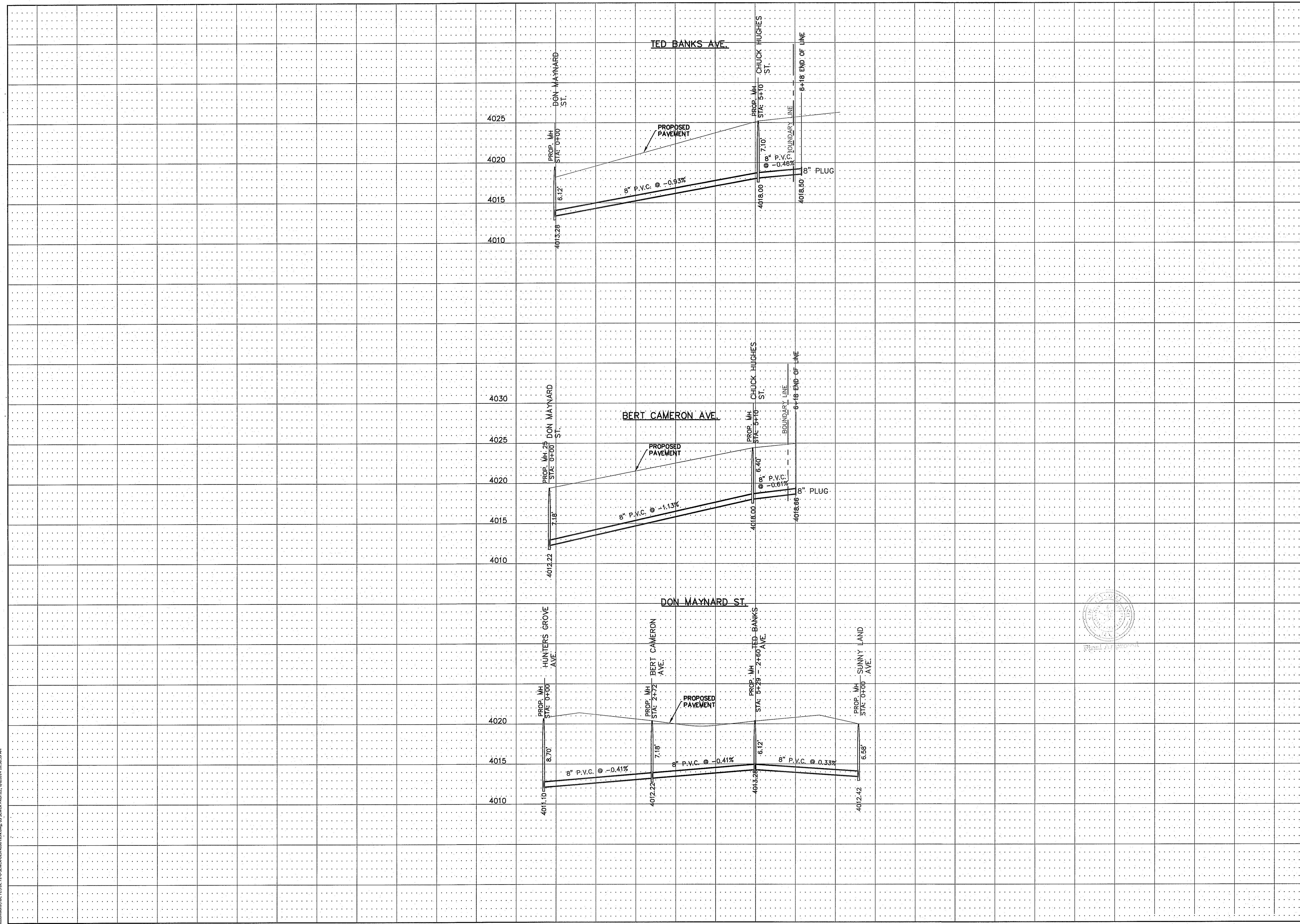
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 CITY MONUMENT AT THE CENTERLINE INTERSECTION OF RALPH SEITSINGER DR. AND GALICENO PL. ELEVATION 4025.93 CITY DATUM

REVISIONS

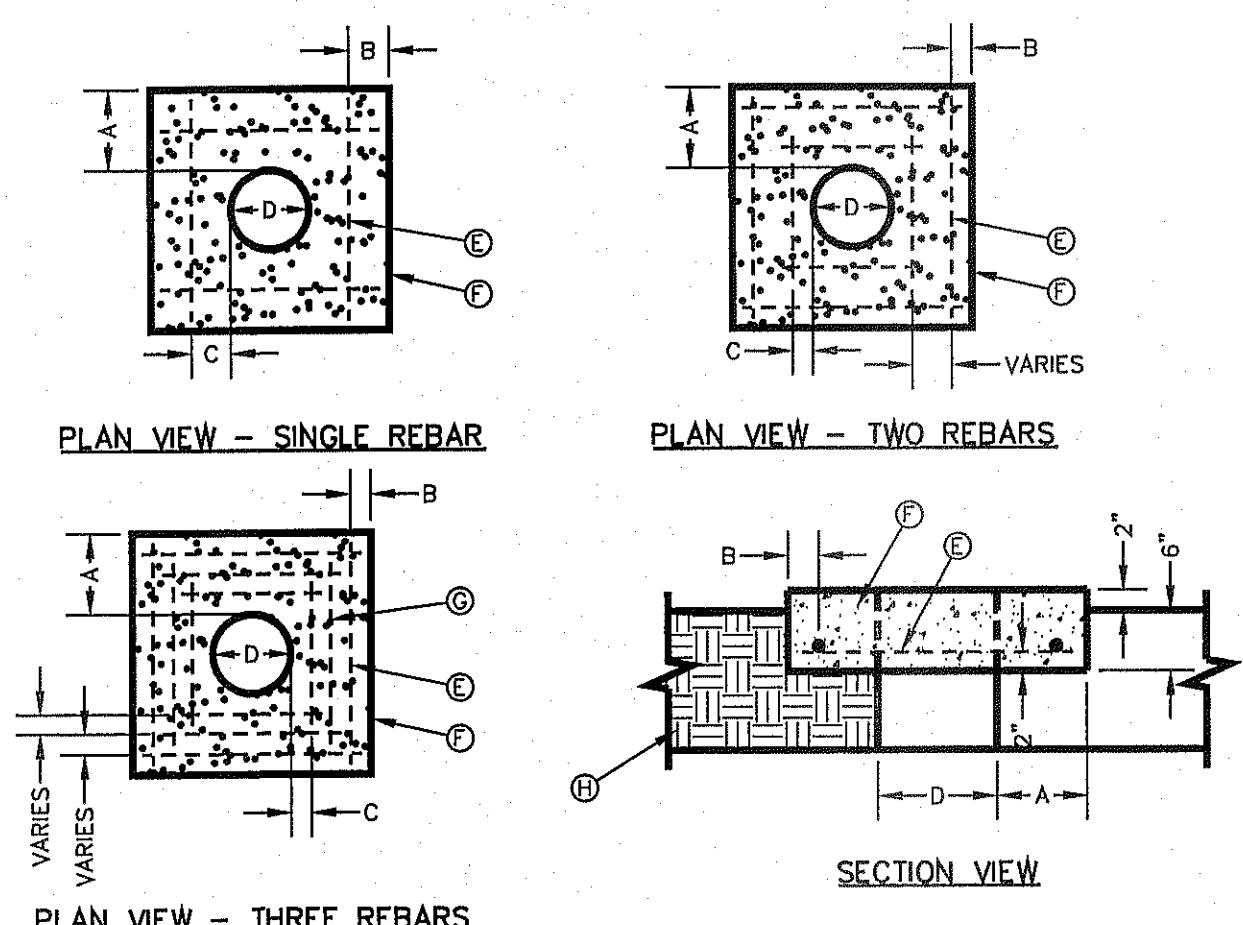
DATE	BY
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11-21-2013	R.O.
1-13-2014	R.O.
1-30-2014	R.O.

DESCRIPTION
 BRING PORTION OF SECTIONS 37 AND 48, BLOCK 79, TOWNSHIP 2, TEXAS AND PACIFIC RAILWAY CO. SURVEYS, CITY OF EL PASO, EL PASO COUNTY, TEXAS CONTAINING: 97.561± ACRES

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ENGINEER'S SEAL		S C A L E	HORIZ: 1"=5' VERT: SEPT. 2013 DATE: SEPT. 2013 DESIGN BY: Y.C. INITIATED BY: R.O. CHECKED BY: Y.C. JOB NO.: 112-09	PROJECT NAME	TIERRA DEL ESTE UNIT SEVENTY TWO BRING PORTION OF SECTIONS 37 AND 48, BLOCK 79, TOWNSHIP 2, TEXAS AND PACIFIC RAILWAY CO. SURVEYS, CITY OF EL PASO, EL PASO COUNTY, TEXAS CONTAINING: 97.651 ± ACRES	BENCHMARK	CITY MONUMENT AT THE CENTERLINE INTERSECTION OF RALPH BEITSINGER DR. AND GALICENO PL. ELEVATION 4025.93 CITY DATUM
CONDE INC. ENGINEERING / PLANNING SURVEYING / GPS 6080 SURETT DR, STE 100 EL PASO, TEXAS 79905 PHONE: (915) 692-0283 FAX: (915) 692-0286				SHEET TITLE		REVISIONS BY: R.O. PSB REDLINES 3RD PSB REDLINES	
SEWER PROFILE						SHT 65 OF 70	



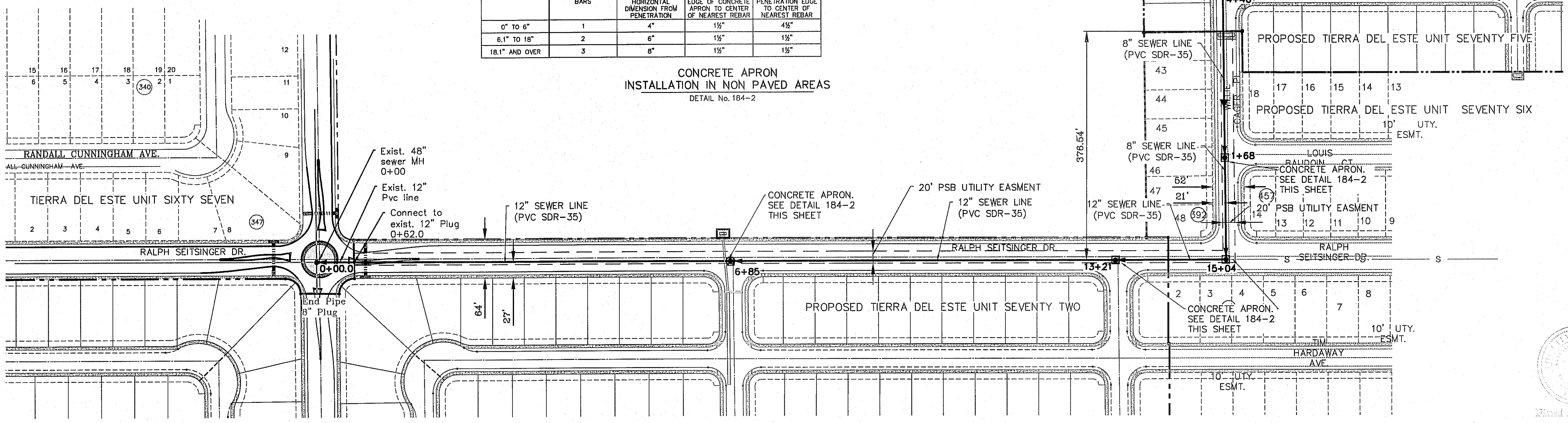
"D" DIAMETER OF PENETRATION	NUMBER OF #3 REINFORCING STEEL BARS	"A" MINIMUM CONCRETE HORIZONTAL DIMENSION FROM PENETRATION	"B" MINIMUM CLEARANCE FROM EDGE OF CONCRETE APRON TO CENTER OF NEAREST REBAR	"C" MINIMUM CLEARANCE FROM PENETRATION EDGE TO CENTER OF NEAREST REBAR
0" TO 6"	1	4"	1 1/2"	4 1/2"
6.1" TO 18"	2	6"	1 1/2"	1 1/2"
18.1" AND OVER	3	8"	1 1/2"	1 1/2"

CONCRETE APRON INSTALLATION IN NON PAVED AREAS
DETAIL No. 184-2

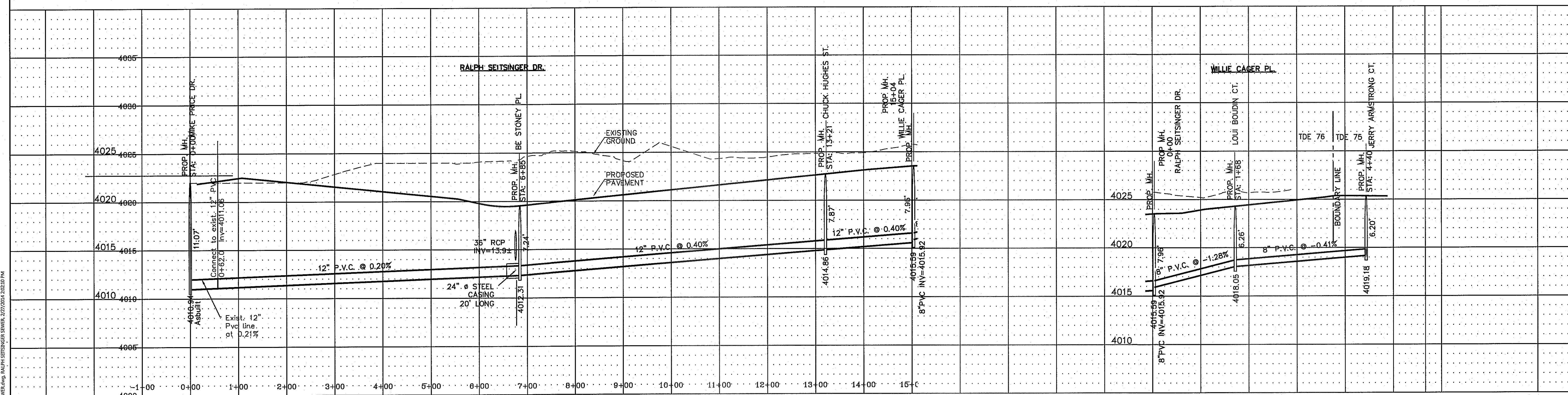
- GENERAL NOTES:**
- THE CONCRETE APRON SHOULD BE CAST IN-PLACE CONCRETE. (MINIMUM 28 DAY COMPRESSIVE STRENGTH 4000 PSI. HIGH EARLY CONCRETE IS REQUIRED)
 - TOPS OF CONCRETE APRON SHALL BE FLUSH WITH ROADWAY SURFACE OR FINISHED GRADE UNLESS OTHERWISE SPECIFIED BY THE ENGINEER.
 - PROVIDE A MINIMUM OF 1 1/2" OF CONCRETE COVER FOR ALL REINFORCEMENT STEEL.
 - REINFORCING SHALL MEET ASTM C-478 AND TRAFFIC LOADING (HS-20).
 - NO. 3 REBARS SPACED EQUALLY MAY BE LAP TIED OR SQUARE HOOPS.

- CONSTRUCTION KEY NOTES:**
- #3 REINFORCING STEEL TYP.
 - CONCRETE APRON.
 - #3 REINFORCING STEEL EQUALLY SPACED.
 - COMPACTED BACKFILL.

- NOTES:**
- CONCRETE APRON SHALL BE SET AT THE PROPOSED FINISHED FINAL GRADE OF RALPH SEITSINGER DR. AND WILLIE CAGER PL.
 - THE WATER AND SANITARY SEWER SYSTEMS PERTAINING TO TERRA DEL ESTE 71 REQUIRE FINAL ACCEPTANCE BY EPWU-PSB IN ORDER TO ACCEPT THE SANITARY SEWER FLOWS FROM TERRA DEL ESTE UNIT 75 UNTO THE MAIN LOCATED ALONG HARRY FLOURNOY AVE. LOCATED WITHIN TERRA DEL ESTE 71.
 - THE TERRA DEL ESTE UNIT 75 WATER AND SANITARY SEWER MAIN PROJECT WILL REQUIRE TWO (2) SEPARATE DEVELOPMENT AGREEMENTS (WATER AND/OR SEWER FACILITY EXTENSIONS) [THE AGREEMENTS] ONE AGREEMENT WILL PERTAIN TO THE TERRA DEL ESTE UNIT 75 SUBDIVISION. THE SECOND AGREEMENT WILL PERTAIN TO THE OFF-SITE SANITARY SEWER MAIN.



SCALE: 1" = 100'



BENCHMARK

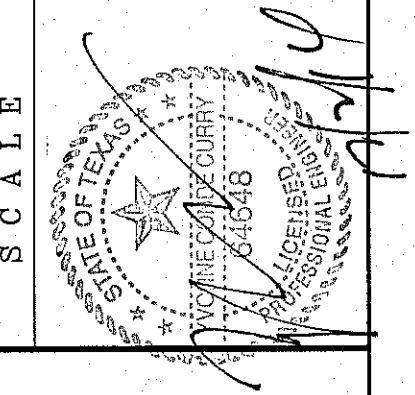
CITY MONUMENT AT THE CENTERLINE INTERSECTION OF RALPH SEITSINGER DR. AND JOHN HAYES ST. ELEVATION 4018.75	REVISIONS
DATE: 1-13-2014	STREET DIMENSIONS
1-30-2014	PSB REDLINES
	R.O.
	R.O.

PROJECT NAME
RALPH SEITSINGER OFFSITE SEWER LINE

TERRA DEL ESTE UNIT SEVENTY TWO, SEVENTY SIX AND SEVENTY FIVE

HORIZ: 1" = 100'
VERT: 1" = 6'

DATE: JAN. 2012
DESIGN BY: YC
INITIATED BY: BO
CHECKED BY: YC & FC
JOB NO.: 113-33

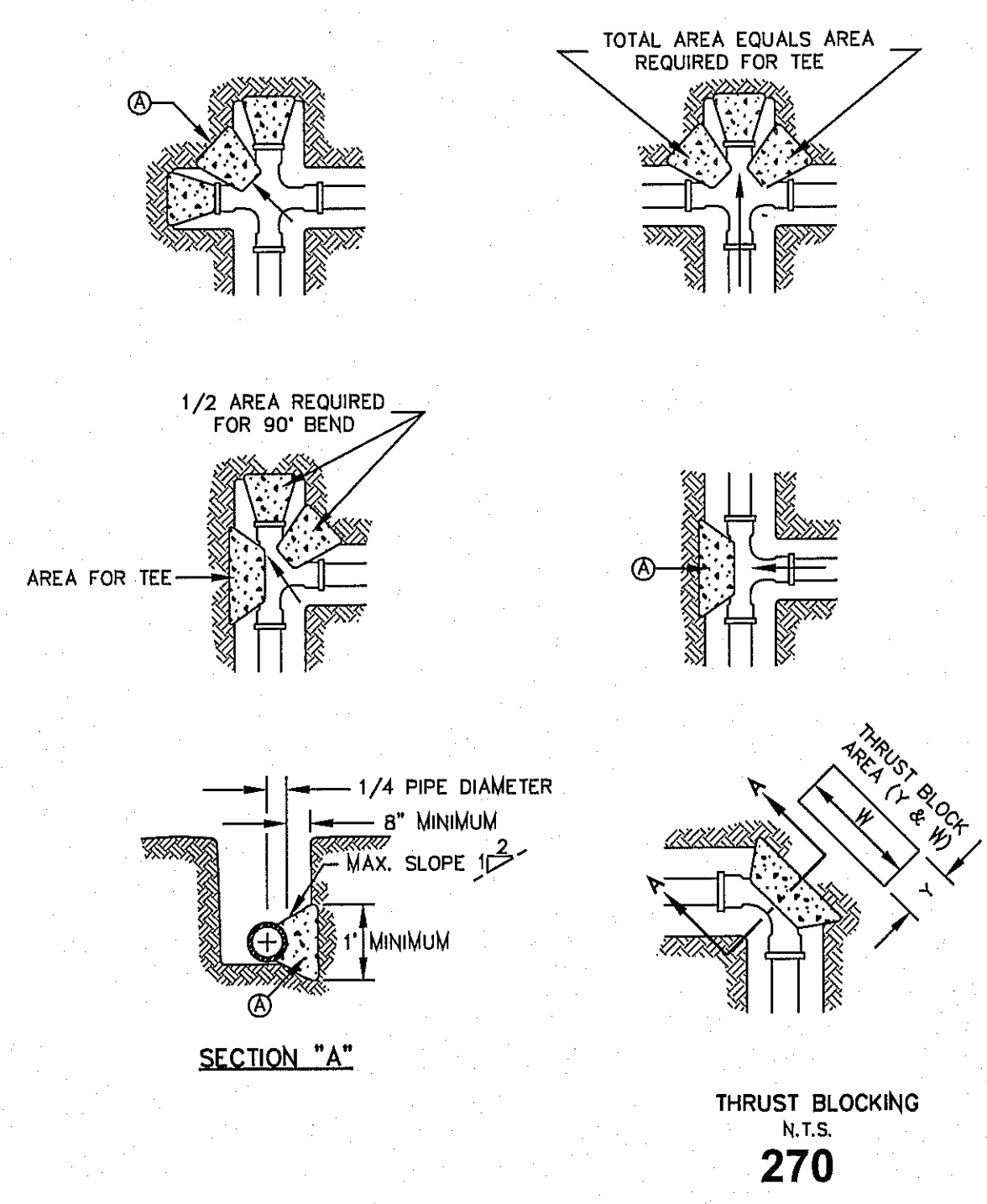


ENGINEER'S SEAL
CONDE INC.
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6080 SURETY DR, STE 100
EL PASO, TEXAS 79905
PHONE: (915) 592-0283
FAX: (915) 592-0286

SHEET TITLE
SANITARY SEWER PROFILE OFFSITE LINE

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 FILE LOCATION S:\Subdivisions\TDR\72-U-W&S\NOTES-DETAILS PLOTTED ON Friday, August 08, 2014 10:39:01 AM



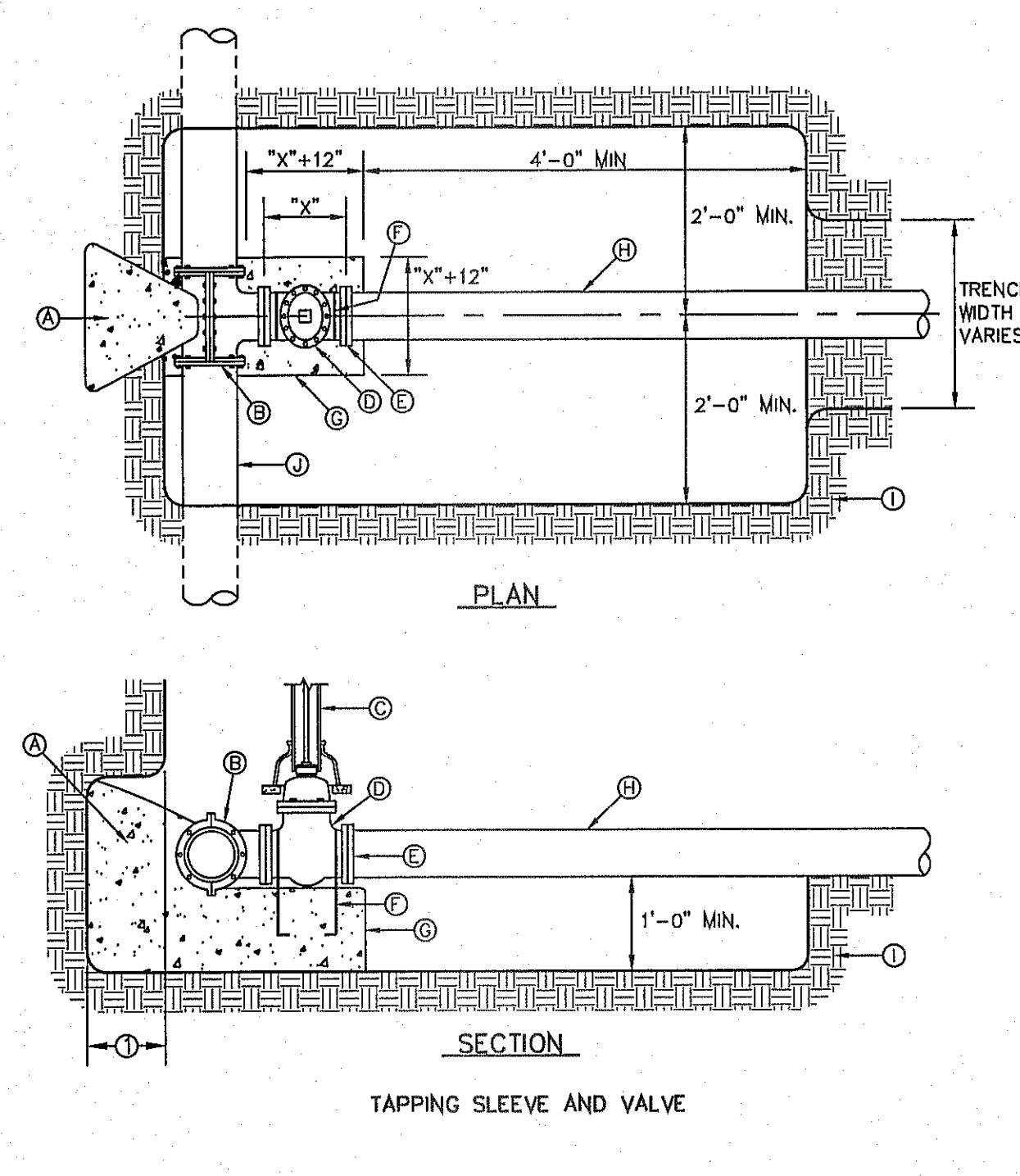
GENERAL NOTES:

- TABLE IS BASED ON 2000#/SQ. FT. SOIL. IF CONDITIONS ARE FOUND TO INDICATE SOIL BEARING IS LESS, THE AREAS SHALL BE INCREASED ACCORDINGLY.
- AREAS FOR PIPE LARGER THAN 18" SHALL BE CALCULATED.
- CONCRETE SHALL HAVE A MINIMUM COMPRESSION STRENGTH OF 2500 PSI.
- THRUST BLOCK IS TO EXTEND TO UNDISTURBED SOIL.
- SIZE MAY BE DECREASED FOR LESSER DEGREE BENDS AS DETERMINED BY ENGINEER.
- KEEP CONCRETE CLEAR OF M.J. OR BELL AND SPIGOT JOINTS.
- BLOCK IN A SIMILAR MANNER AT TEES, HYDRANTS, PLUG OR OTHER LOCATIONS AS REQUIRED.
- 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:

- LENGTH "Y & W" AS REQUIRED TO OBTAIN BEARING AREA AGAINST UNDISTURBED SOIL.
- ADDITIONAL EXCAVATION IF NECESSARY TO OBTAIN REQUIRED BEARING AREA.
- MINIMUM THRUST BLOCK AREA REQUIREMENTS FOR (Y & W) AS FOLLOWS:

PIPE SIZE	WATER PIPE	
	TEE, DEAD END 90° BEND	45° AND 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

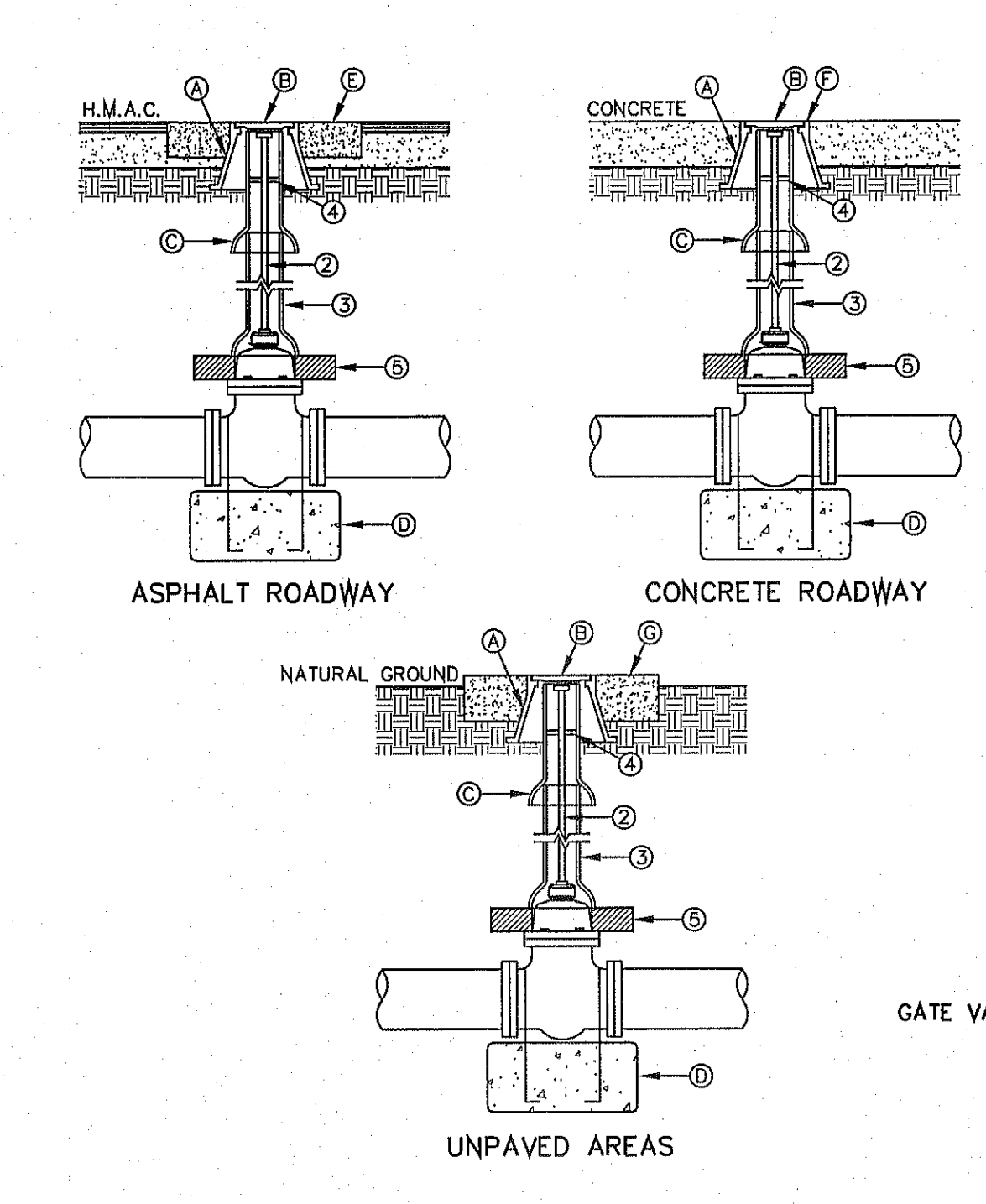


GENERAL NOTES:

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

CONSTRUCTION KEY NOTES:

- CONCRETE THRUST BLOCKING, PER DETAIL 270.
- TAPPING SLEEVE.
- RISER INSTALLATION, PER DETAIL 260.
- TAPPING VALVE.
- VALVE ENDS FOR TYPE OF PIPE INSTALLED.
- 2-#5 REBAR HAIRPINS, PAINT UNEMBEDDED PORTION OF BARS WITH 2-COATS OF COAL TAR EPOXY, THEN COVER WITH 2" MINIMUM OF CEMENT MORTAR.
- CONCRETE VALVE SUPPORT, PER DETAIL 271.
- NEW WATER LINE TO BE INSTALLED.
- UNDISTURBED EARTH.
- EXISTING WATER MAIN TO BE TAPPED.

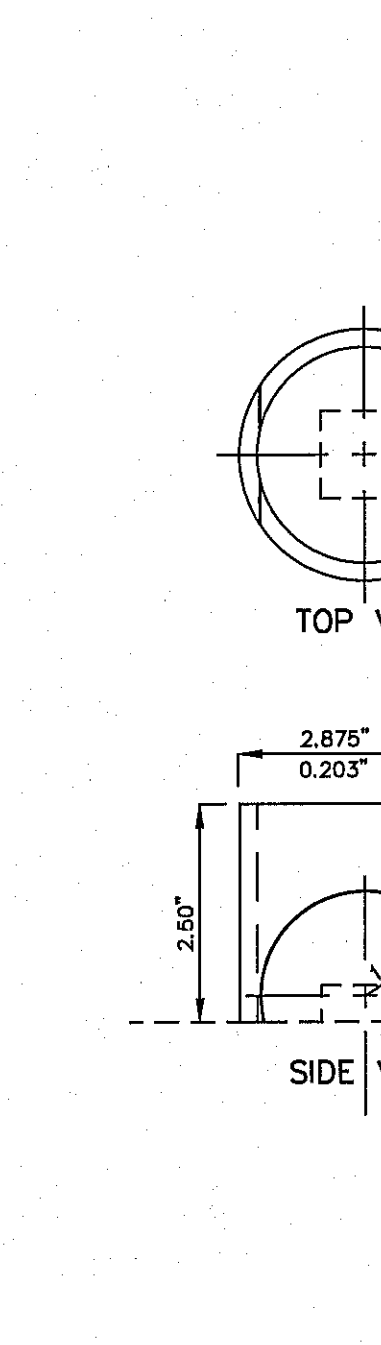
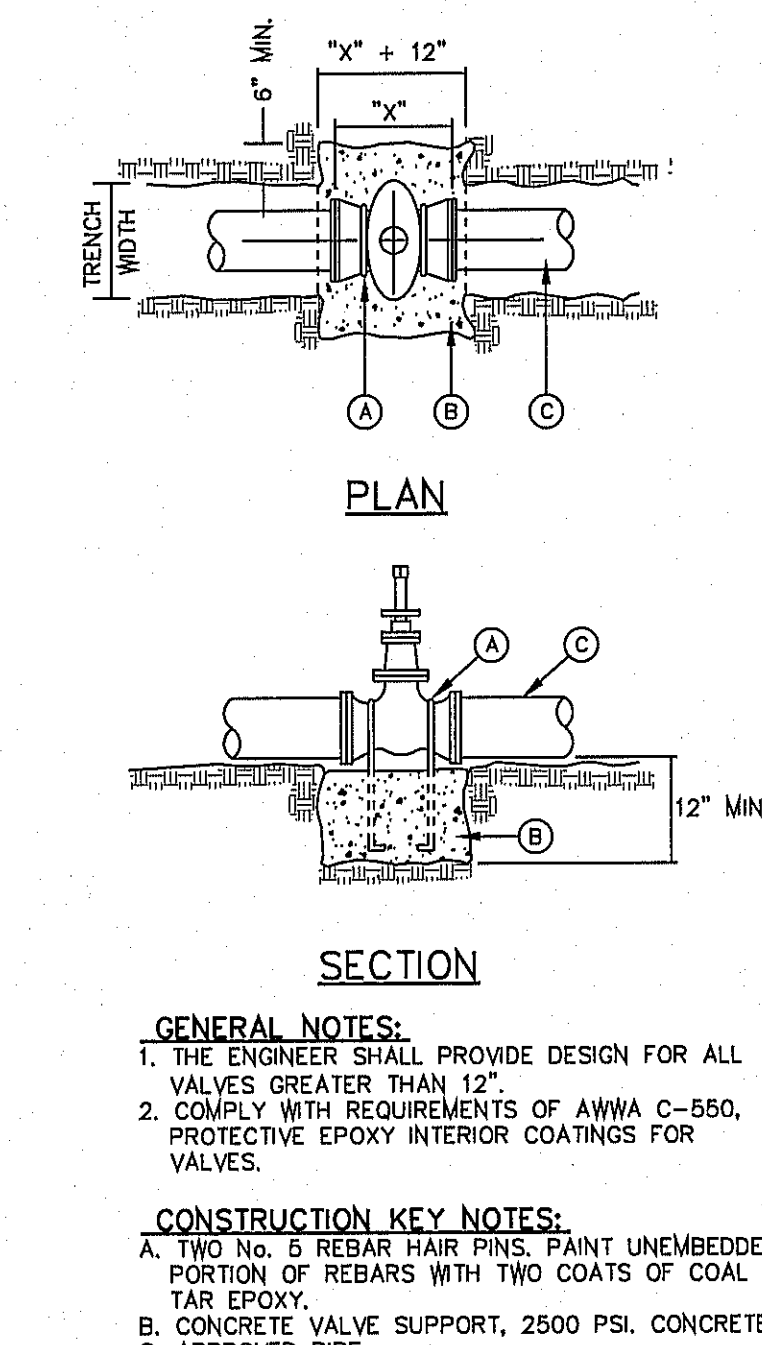


GENERAL NOTES:

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

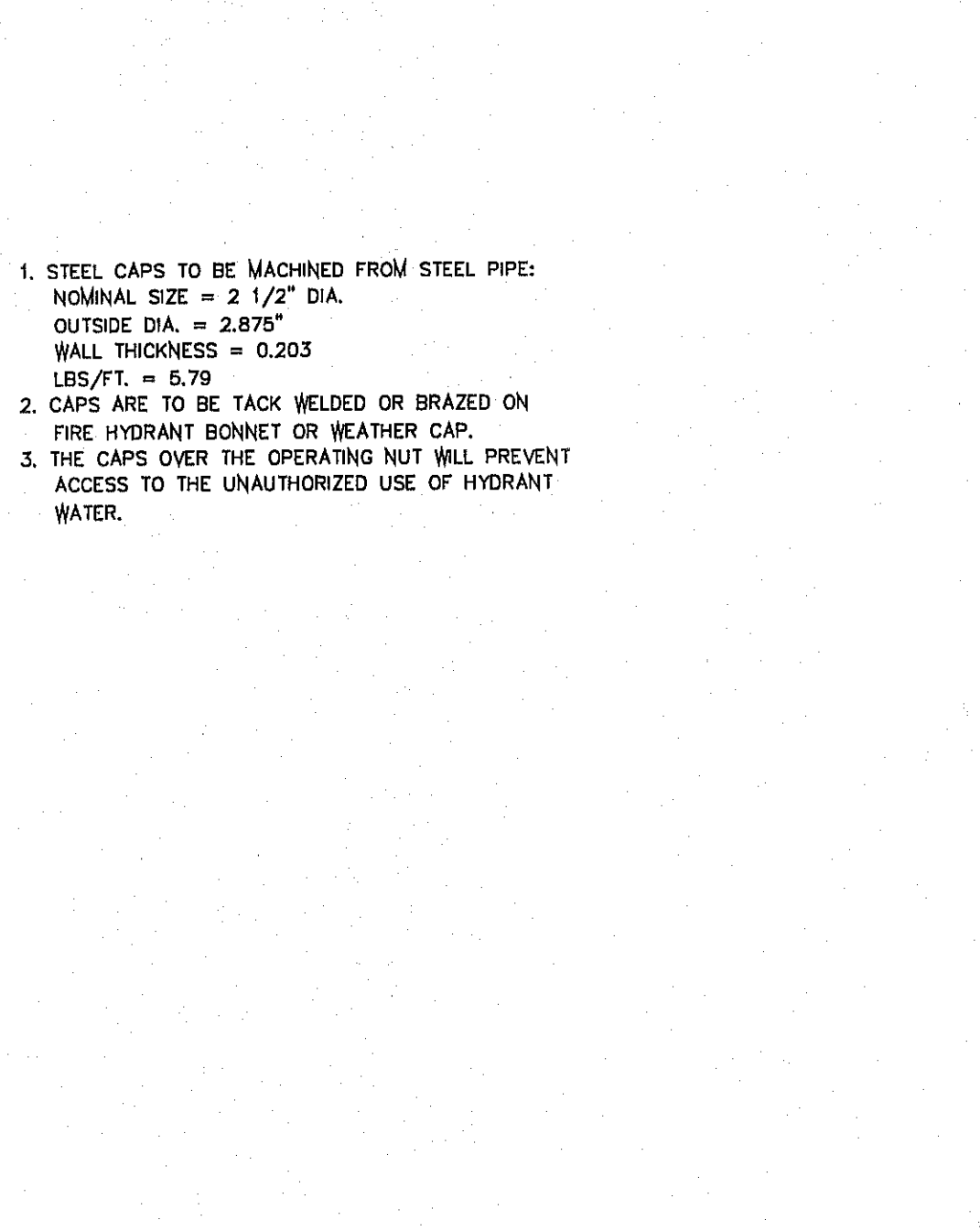
CONSTRUCTION KEY NOTES:

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



GENERAL NOTES:

- STEEL CAPS TO BE MACHINED FROM STEEL PIPE: NOMINAL SIZE = 2 1/2" DIA. OUTSIDE DIA. = 2.875" WALL THICKNESS = 0.203 LBS/FT. = 6.79
- CAPS ARE TO BE TACK WELDED OR BRAZED ON FIRE HYDRANT BONNET OR WEATHER CAP.
- THE CAPS OVER THE OPERATING NUT WILL PREVENT ACCESS TO THE UNAUTHORIZED USE OF HYDRANT WATER.

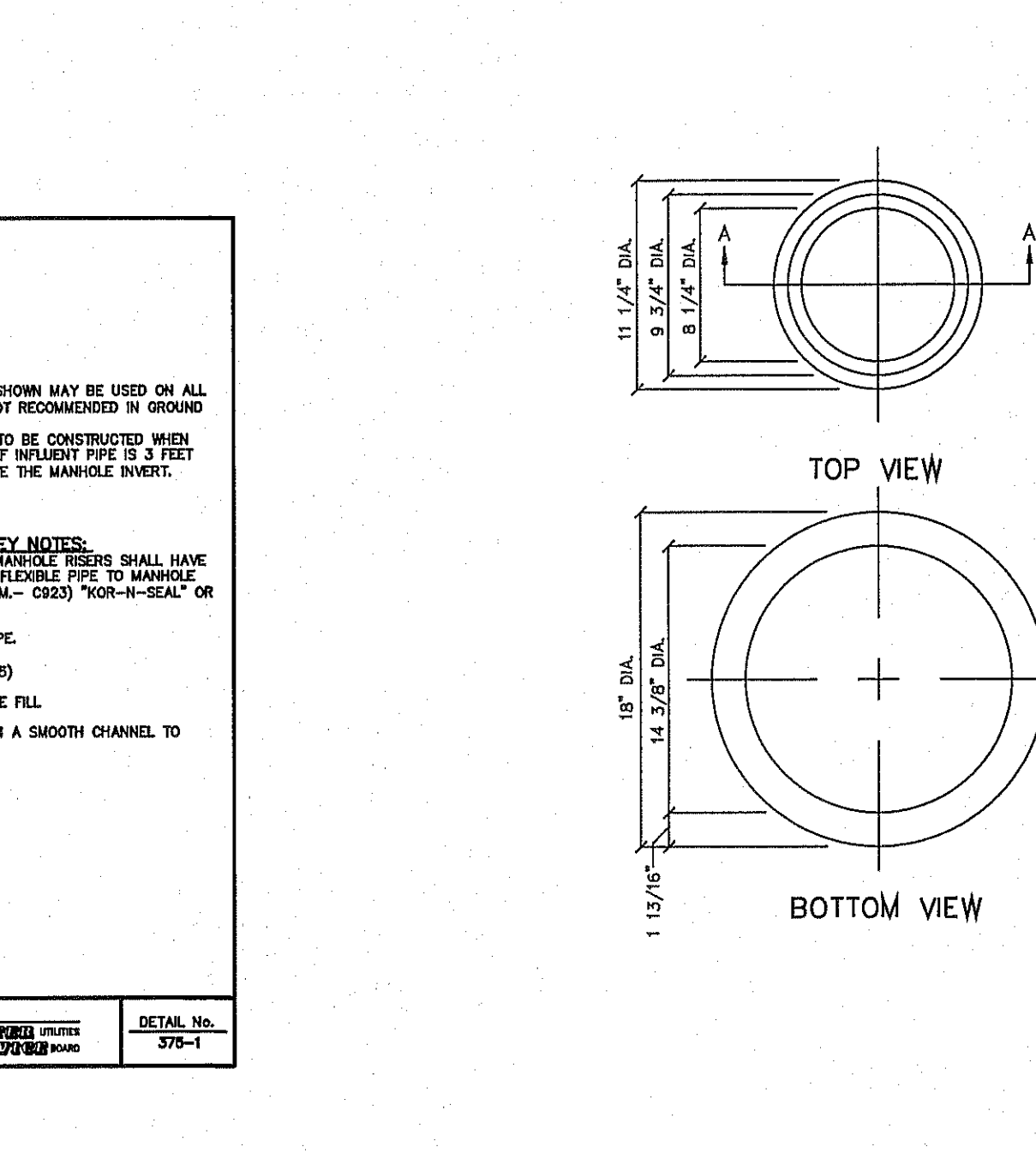


GENERAL NOTES:

- DROP CONNECTION SHOWN MAY BE USED ON ALL MANHOLE TYPES (NOT RECOMMENDED IN GROUND WATER CONDITIONS).
- DROP CONNECTION TO BE CONSTRUCTED WHEN INVERT ELEVATION OF INFLUENT PIPE IS 3 FEET (OR GREATER) ABOVE THE MANHOLE INVERT.

CONSTRUCTION KEY NOTES:

- PIPE OPENS IN MANHOLE RESES SHALL HAVE COMPRESSION TYPE FLEXIBLE PIPE TO MANHOLE CONNECTORS (A-S-TAL- C-23) "GIR-N-SEAL" OR APPROVED EQUAL.
- MANHOLE WALL.
- INFLUENT SEWER PIPE.
- SDR 35 (P.V.C.)
- P.V.C. PIPE (SDR 35)
- CONCRETE FLOWABLE FILL
- CONCRETE
- USE GROUT TO FORM A SMOOTH CHANNEL TO MANHOLE INVERT

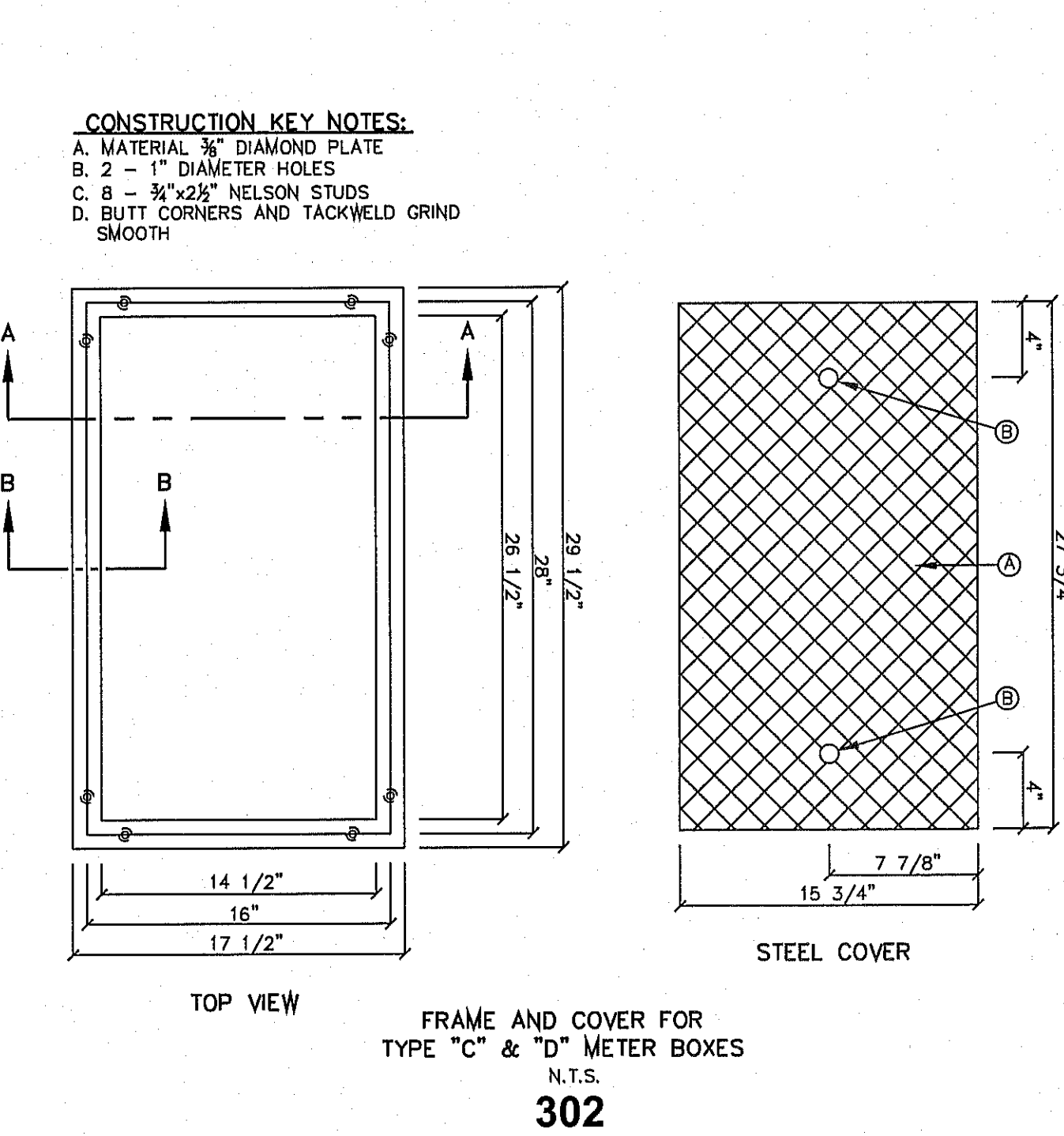
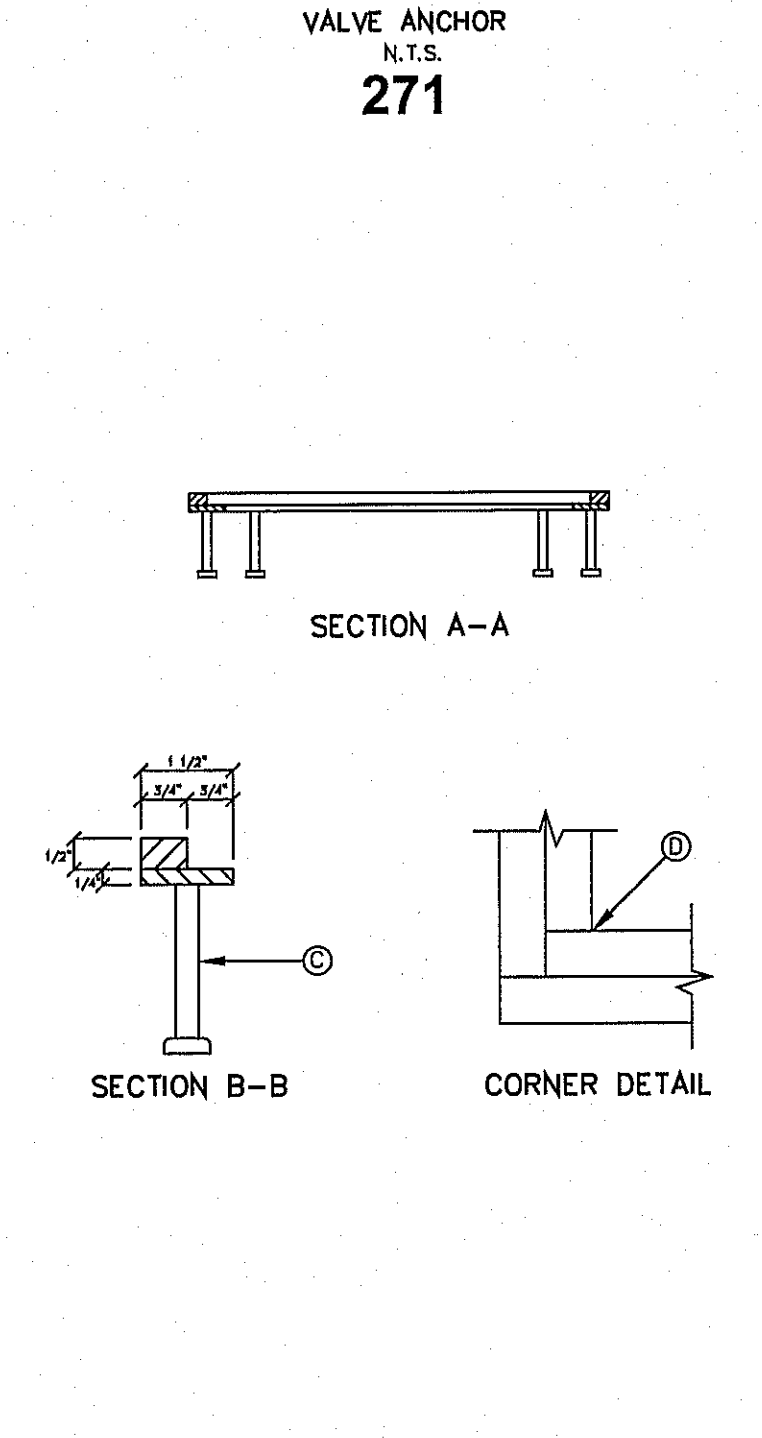


GENERAL NOTES:

- CASTING TO BE SMOOTH AND VOID OF AIR HOLES.
- WEIGHT OF BONNET BOX IS 95 POUNDS.

CONSTRUCTION KEY NOTES:

- TO BE ROUGH GROUND OF ANY IRREGULARITIES THAT WOULD PREVENT A SNUG FIT.

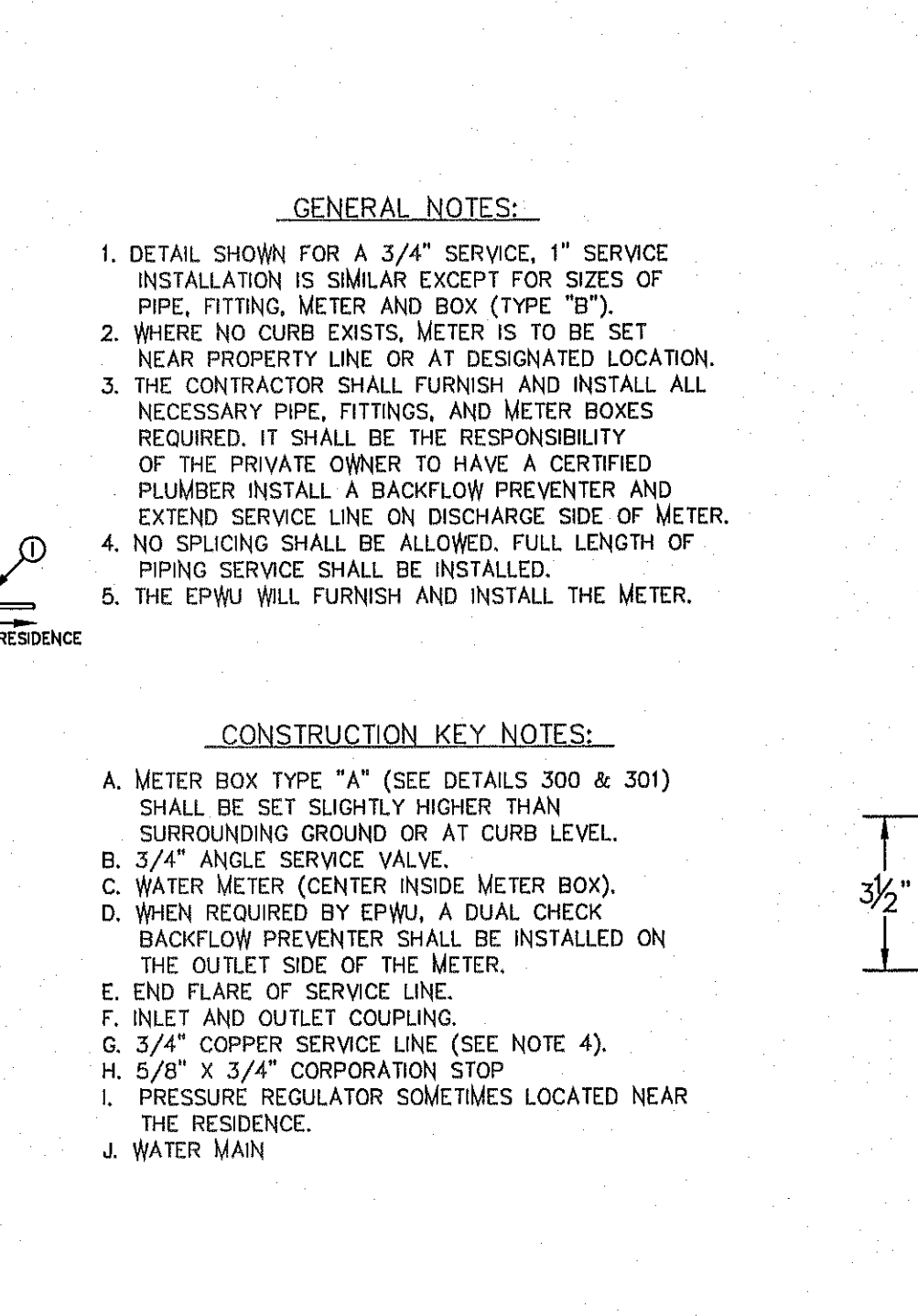


GENERAL NOTES:

- DETAIL SHOWN FOR A 3/4" SERVICE, 1" SERVICE INSTALLATION IS SIMILAR EXCEPT FOR SIZES OF PIPE, FITTING, METER AND BOX (TYPE "B").
- WHERE NO CURB EXISTS, METER IS TO BE SET NEAR PROPERTY LINE OR AT DESIGNATED LOCATION.
- 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.
- NO SPLICING SHALL BE ALLOWED. FULL LENGTH OF PIPING SERVICE SHALL BE INSTALLED.
- THE EPWU WILL FURNISH AND INSTALL THE METER.

CONSTRUCTION KEY NOTES:

- METER BOX TYPE "A" (SEE DETAILS 300 & 301) SHALL BE SET SLIGHTLY HIGHER THAN SURROUNDING GROUND OR AT CURB LEVEL.
- 3/4" ANGLE SERVICE VALVE.
- WATER METER (CENTER INSIDE METER BOX).
- WHEN REQUIRED BY EPWU, A DUAL CHECK BACKFLOW PREVENTER SHALL BE INSTALLED ON THE OUTLET SIDE OF THE METER.
- END FLARE OF SERVICE LINE.
- INLET AND OUTLET COUPLING.
- 3/4" COPPER SERVICE LINE (SEE NOTE 4).
- 5/8" X 3/4" CORPORATION STOP.
- PRESSURE REGULATOR SOMETIMES LOCATED NEAR THE RESIDENCE.
- WATER MAIN

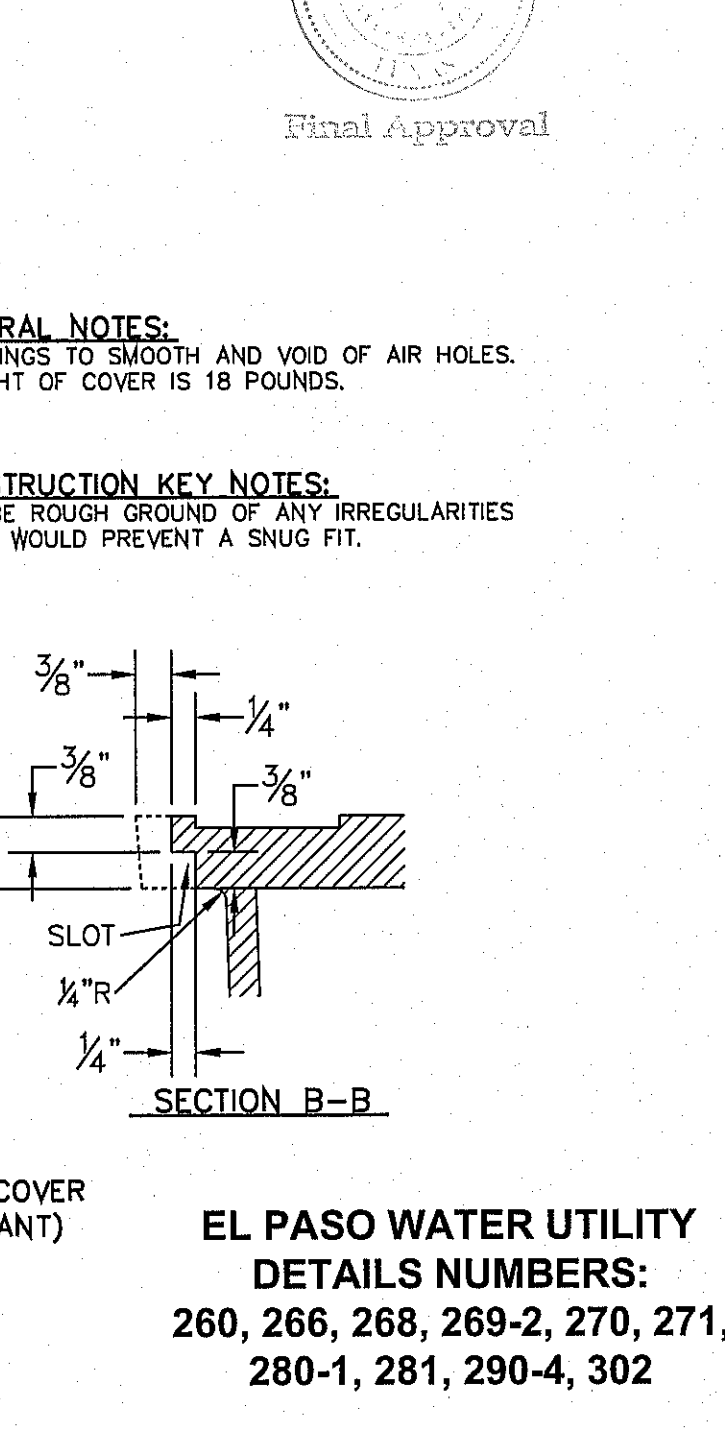


GENERAL NOTES:

- CASTINGS TO BE SMOOTH AND VOID OF AIR HOLES.
- WEIGHT OF COVER IS 18 POUNDS.

CONSTRUCTION KEY NOTES:

- TO BE ROUGH GROUND OF ANY IRREGULARITIES THAT WOULD PREVENT A SNUG FIT.



GENERAL NOTES:

- DETAIL SHOWN FOR A 3/4" SERVICE, 1" SERVICE INSTALLATION IS SIMILAR EXCEPT FOR SIZES OF PIPE, FITTING, METER AND BOX (TYPE "B").
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- NO SPLICING SHALL BE ALLOWED. FULL LENGTH OF PIPING SERVICE SHALL BE INSTALLED.
- THE EPWU WILL FURNISH AND INSTALL THE METER.

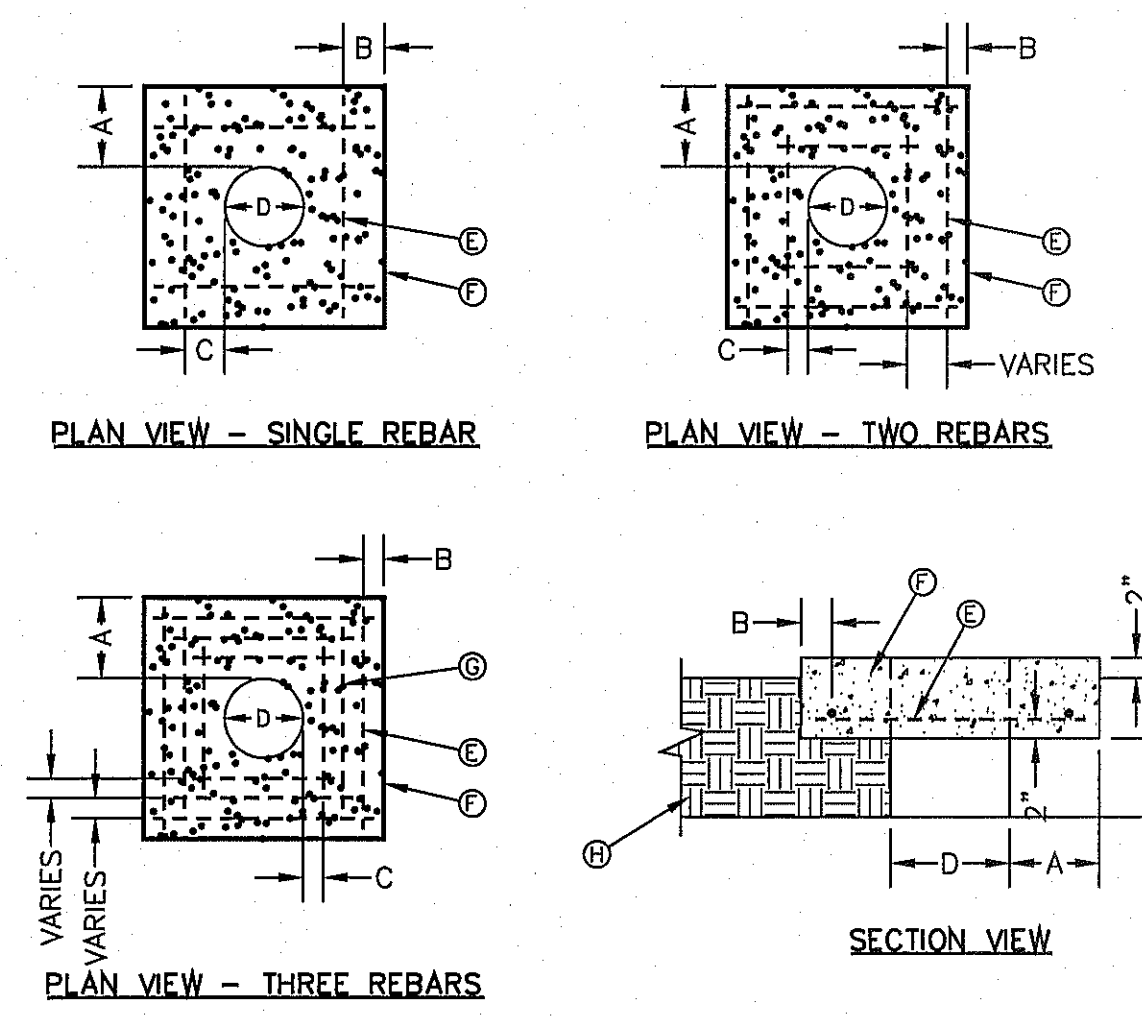
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- METER BOX TYPE "A" (SEE DETAILS 300 & 301) SHALL BE SET SLIGHTLY HIGHER THAN SURROUNDING GROUND OR AT CURB LEVEL.
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- END FLARE OF SERVICE LINE.
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- 3/4" COPPER SERVICE LINE (SEE NOTE 4).
- 5/8" X 3/4" CORPORATION STOP.
- PRESSURE REGULATOR SOMETIMES LOCATED NEAR THE RESIDENCE.
- WATER MAIN

PROJECT NAME: TIERRA DEL ESTE UNIT SEVENTY TWO
 BEING PORTION OF SECTIONS 87 AND 48, BLOCK 79, TOWNSHIP 2, TEXAS, AND PACIFIC RAILWAY Co. SURVEYS, CITY OF EL PASO, EL PASO COUNTY, TEXAS CONTAINING: 87.551 ACRES
 CITY MONUMENT AT THE CENTERLINE INTERSECTION OF RALPH SEITZINGER DR. AND GALICENO PL. ELEVATION 4026.93 ... CITY DATUM
 ENGINEER'S SEAL: CONDE INC. ENGINEERING / PLANNING / SURVEYING / GPS
 DESIGN BY: Y.C.
 CHECKED BY: Y.C.
 JOB NO.: 112-08
 SHEET 66 OF 70

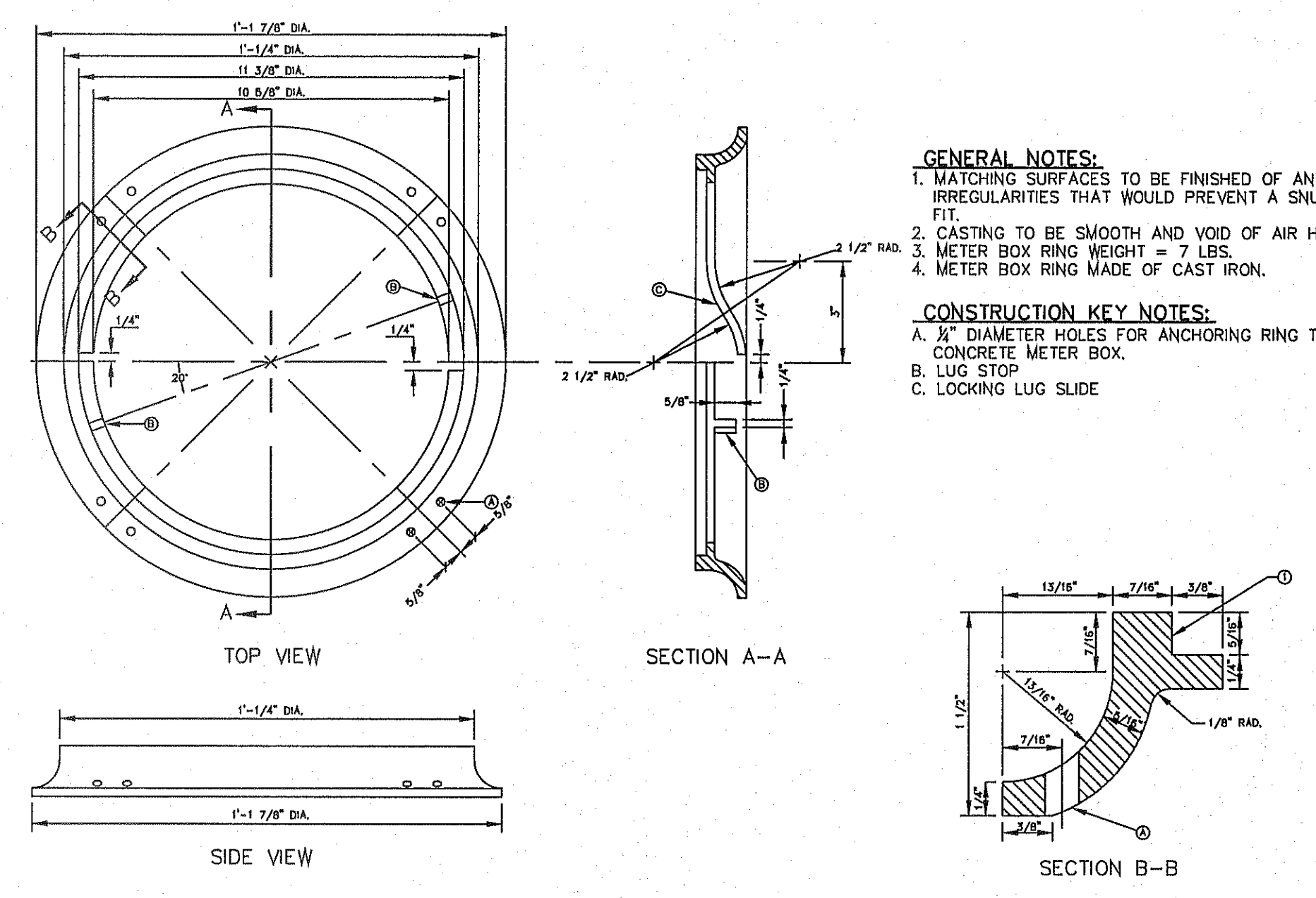
ENGINEER'S SEAL: CONDE INC. ENGINEERING / PLANNING / SURVEYING / GPS
 DESIGN BY: Y.C.
 CHECKED BY: Y.C.
 JOB NO.: 112-08
 SHEET 66 OF 70

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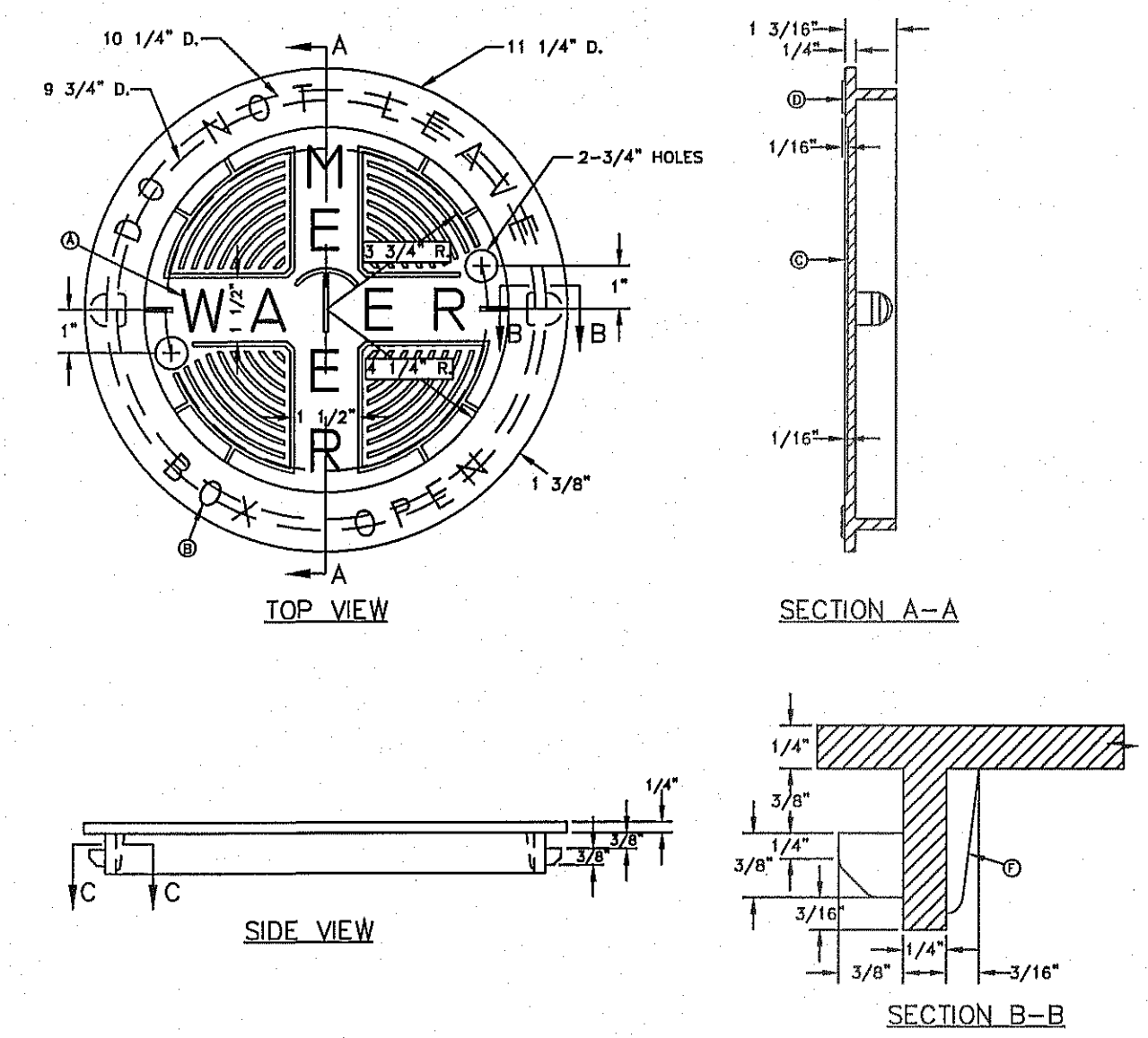
- GENERAL NOTES:**
1. THE CONCRETE APRON SHOULD BE CAST IN-PLACE CONCRETE. (MINIMUM 28 DAY COMPRESSIVE STRENGTH 4000 PSI. HIGH EARLY CONCRETE IS REQUIRED)
 2. TOPS OF CONCRETE APRON SHALL BE FLUSH WITH ROADWAY SURFACE OR FINISHED GRADE UNLESS OTHERWISE SPECIFIED BY THE ENGINEER.
 3. PROVIDE A MINIMUM OF 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 REBARS SPACED EQUALLY MAY BE LAP TIED OR SQUARE HOOPS.
- CONSTRUCTION KEY NOTES:**
- E. #3 REINFORCING STEEL TYP.
 - F. CONCRETE APRON.
 - G. #3 REINFORCING STEEL EQUALLY SPACED.
 - H. COMPACTED BACKFILL.

"D" DIAMETER OF PENETRATION	NUMBER OF #3 REINFORCING STEEL BARS	"A" MINIMUM CONCRETE HORIZONTAL DIMENSION FROM PENETRATION	"B" MINIMUM CLEARANCE FROM EDGE OF CONCRETE APRON TO CENTER OF NEAREST REBAR	"C" MINIMUM CLEARANCE FROM PENETRATION EDGE TO CENTER OF NEAREST REBAR
0" TO 6"	1	4"	1 1/2"	4 1/2"
6.1" TO 18"	2	6"	1 1/2"	1 1/2"
18.1" AND OVER	3	8"	1 1/2"	1 1/2"



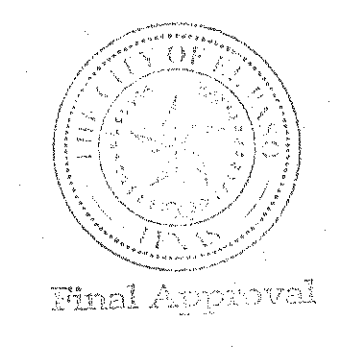
- GENERAL NOTES:**
1. MATCHING SURFACES TO BE FINISHED BY ANY IRREGULARITIES THAT WOULD PREVENT A SNUG FIT.
 2. CASTING TO BE SMOOTH AND VOID OF AIR HOLES.
 3. METER BOX RING WEIGHT = 7 LBS.
 4. METER BOX RING MADE OF CAST IRON.
- CONSTRUCTION KEY NOTES:**
- A. 1/2" DIAMETER HOLES FOR ANCHORING RING TO CONCRETE METER BOX.
 - B. LUG STOP.
 - C. LOCKING LUG SLIDE.

METER BOX RING FOR TYPE "A" & "B" METER BOXES



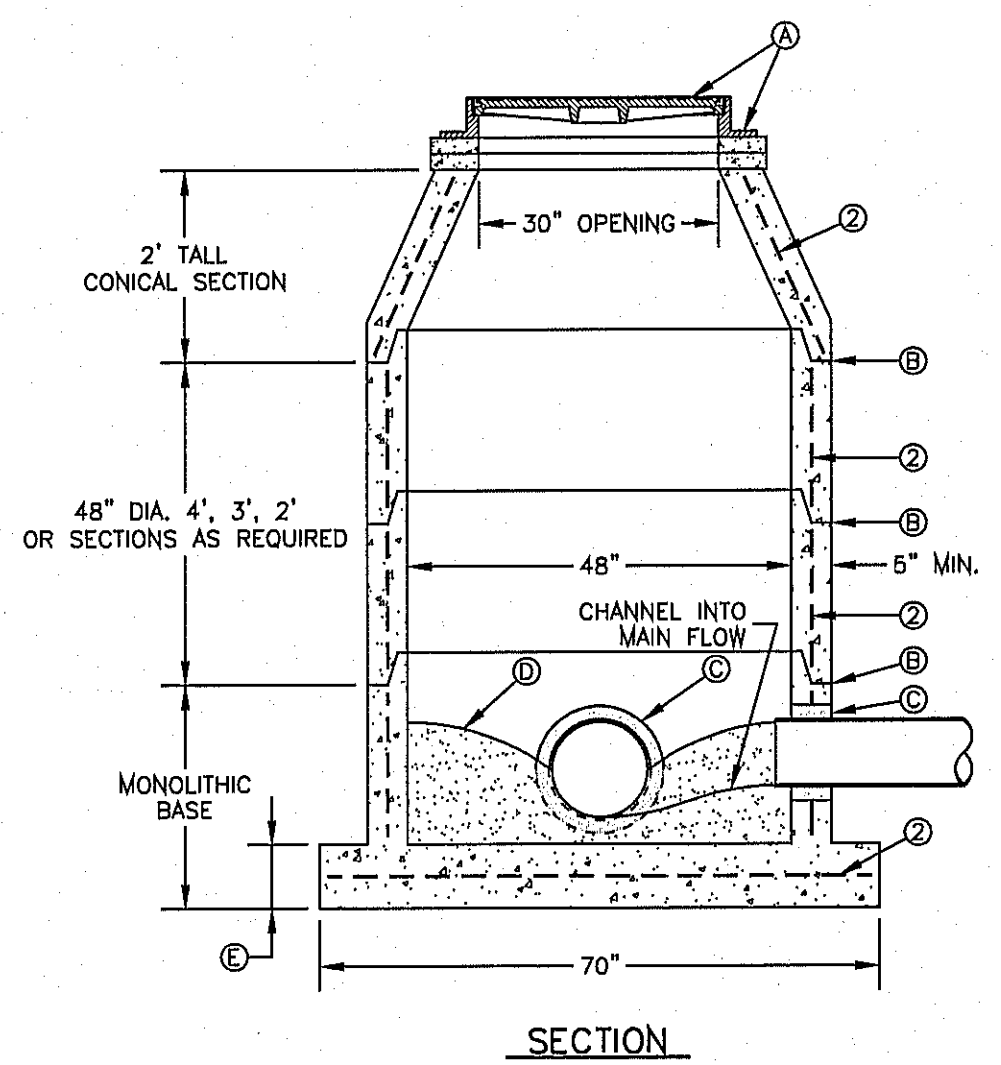
- GENERAL NOTES:**
1. MATCHING SURFACES TO BE ROUGH GROUND OF ANY IRREGULARITIES THAT WOULD PREVENT A SNUG FIT.
 2. CASTING TO BE SMOOTH AND VOID OF AIR.
 3. METER BOX COVER WEIGHT = 1 1/4 lbs.
- CONSTRUCTION KEY NOTES:**
- A. LETTERS TO BE 1" HIGH, 3/4" WIDE, 1/8" THICK
 - B. LETTERS TO BE 3/4" HIGH, 3/4" WIDE, 1/8" THICK
 - C. INSIDE LETTERS & RIBS 1/4" TALL
 - D. OUTSIDE LETTERS 1/2" TALL
 - E. REINFORCE BACK OF LUG
 - F. REINFORCEMENT

METER BOX COVER FOR TYPE "A" & "B" METER BOXES



<p>CONDE INC. ENGINEERING / PLANNING SURVEYING / GPS 6080 SURETY DR. STE 100 EL PASO, TEXAS 79905 PHONE: (915) 592-0253 FAX: (915) 592-0286</p>	<p>ENGINEER'S SEAL ENGINEER'S SEAL THIS SHEET IS PRODUCED FROM CITY SUBDIVISION DESIGN STANDARDS</p>	<p>SCALES HORIZ: --- VERT: --- DATE: SEPT. 2013 DESIGN BY: Y.C. INITIATED BY: E.O. CHECKED BY: Y.C. JOB NO.: 112-08</p>	<p>PROJECT NAME TIERRA DEL ESTE UNIT SEVENTY TWO BEING PORTION OF SECTIONS 37 AND 48, BLOCK 79, TOWNSHIP 2, TEXAS AND PACIFIC RAILWAY CO. SURVEYS, CITY OF EL PASO, EL PASO COUNTY, TEXAS CONTAINING: 97.651 ACRES</p>	<p>BENCHMARK CITY MONUMENT AT THE CENTERLINE INTERSECTION OF RALPH SETTSINGER DR. AND GALICENO PL. ELEVATION 4025.99 ... CITY DATUM</p>	<p>REVISIONS</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>NO.</th> <th>DATE</th> <th>BY</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>1-27-2012</td> <td>PSB</td> </tr> </tbody> </table>	NO.	DATE	BY	1	1-27-2012	PSB
NO.	DATE	BY									
1	1-27-2012	PSB									
<p>CONDE INC. REGISTRATION No. F221</p>		<p>SHEET TITLE WATER DETAILS</p>		<p>SHT 68 OF 70</p>							

FILE LOCATION S:\Subdivisions\TDE 72\TDE 72-U-W&S NOTES-DETAILS PLOTTED ON Friday, August 08, 2014 10:39:13 AM BY ROGER ORTEGA

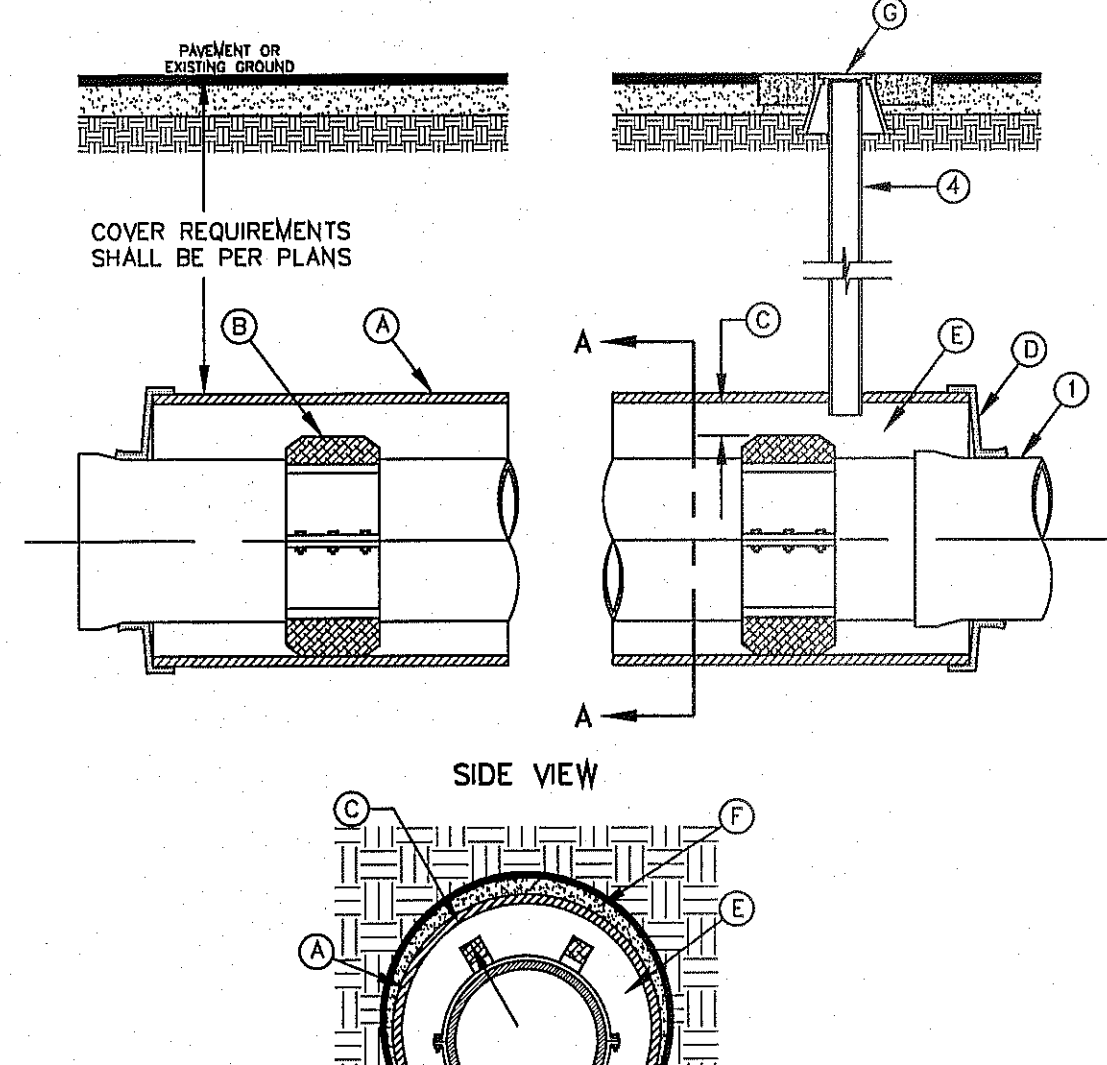


GENERAL NOTES:

- 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 LOADING. PROVIDE REINFORCEMENT WITHIN 3" OF OPENINGS OR KNOCKOUTS. OPENINGS (UP TO 8") MADE IN FIELD SHALL BE CORE DRILLED.
- CEMENT SHALL BE TYPE I-III, 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-NEK 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".

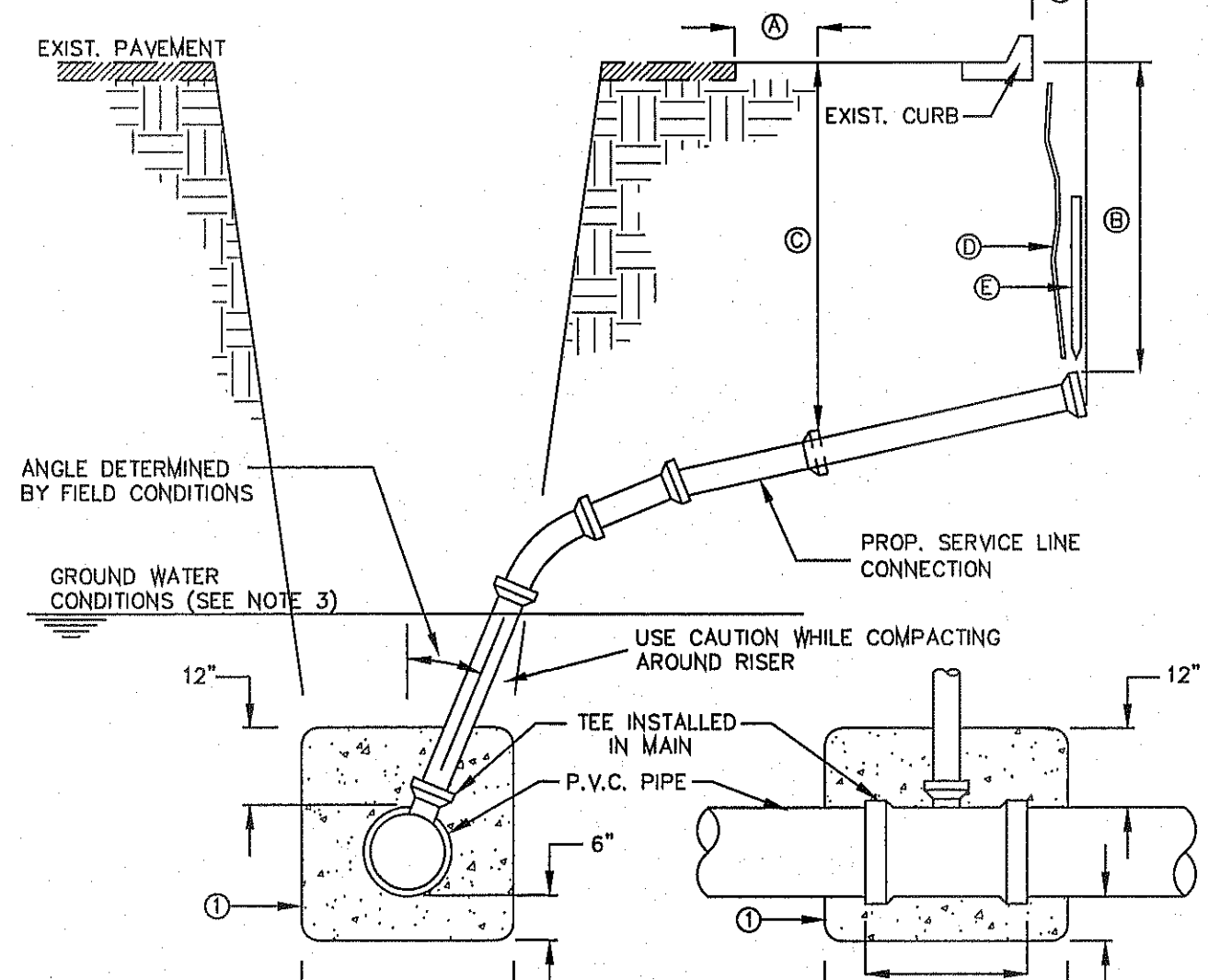


GENERAL NOTES:

- 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).

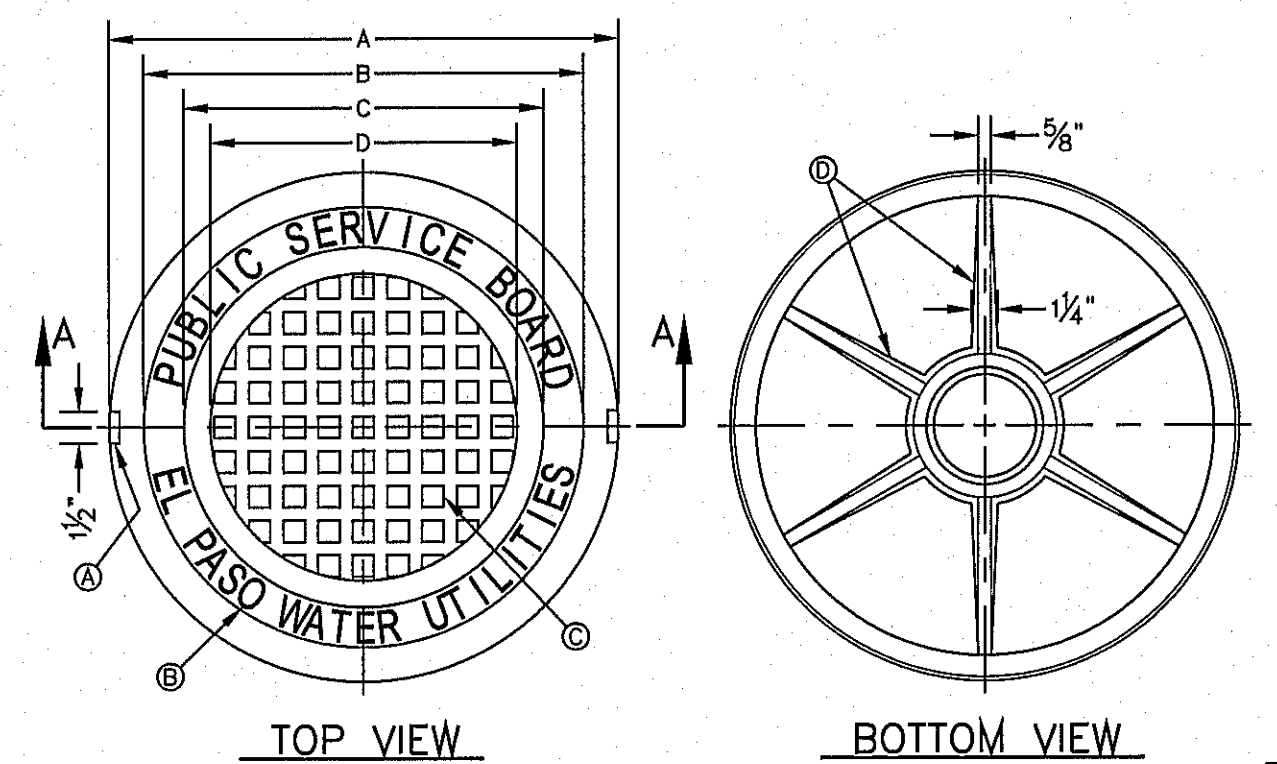


GENERAL NOTES:

- 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 PAVING SHALL BE INSTALLED TO 3.5' MINIMUM TOP OF GROUND OR PAVEMENT, 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:

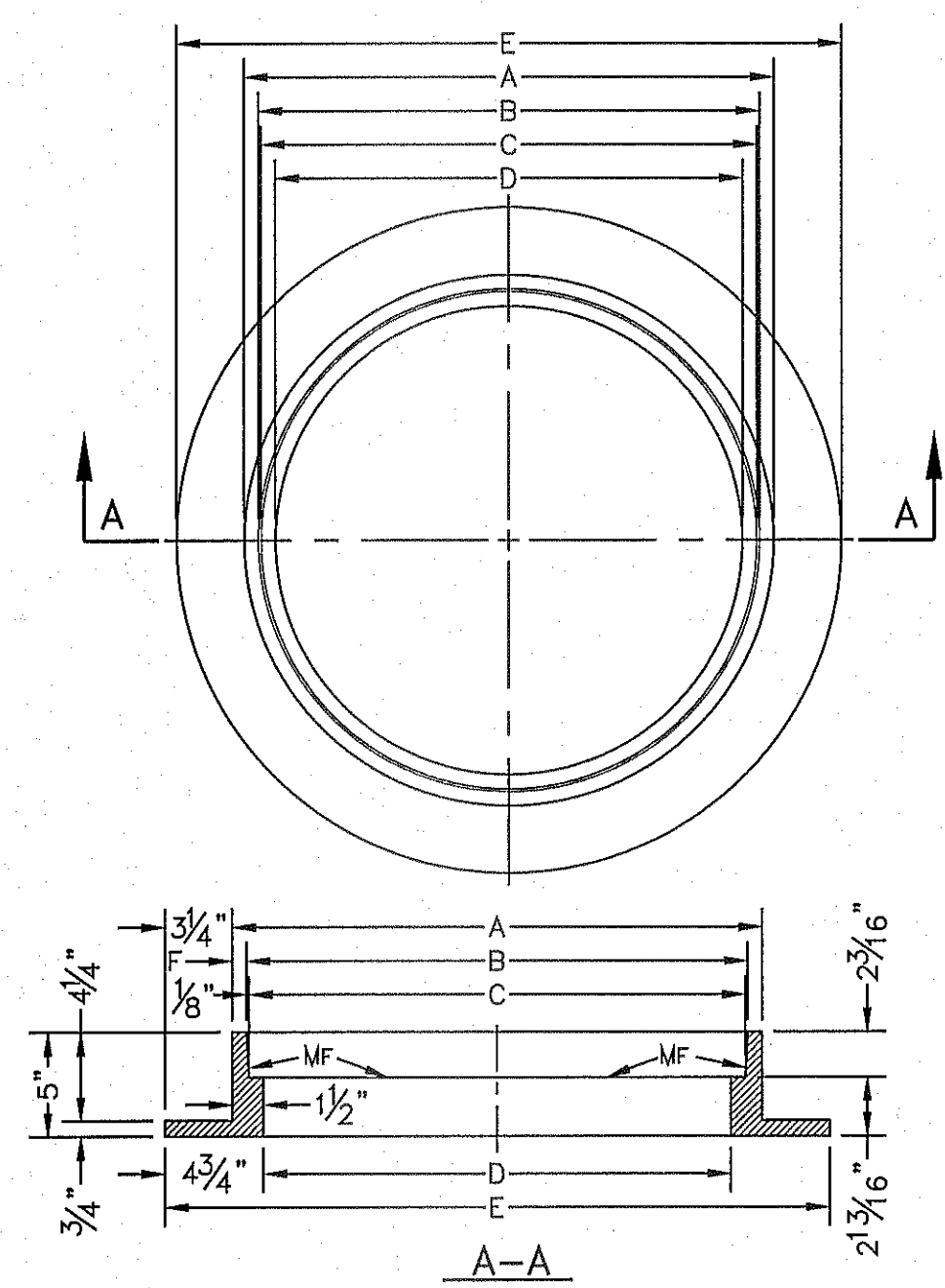
- MATCHING SURFACES MARKED "MF" TO BE FINISHED OF ANY IRREGULARITIES THAT WOULD PREVENT A SNUG FIT.
- CASTING TO BE SMOOTH & VOID OF AIR HOLES.
- CASTING MUST MEET REQUIREMENTS OF AASHTO M306-07.
- AS-CAST DIMENSIONS MAY VARY 1/8" ± / PER FOOT (AASHTO M306-07).
- WEIGHT MAY VARY 5% ± (AASHTO M306-07).

CONSTRUCTION KEY NOTES:

- LIFTING NOTCH.
- 3/4" RAISED LETTERING.
- 1" SQUARES (1/2" TALL) WITH 5/8" SPACE BETWEEN.
- REINFORCING RIBS.
- SLOT.

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

*OBSOLETE - DO NOT USE (FOR REFERENCE ONLY)

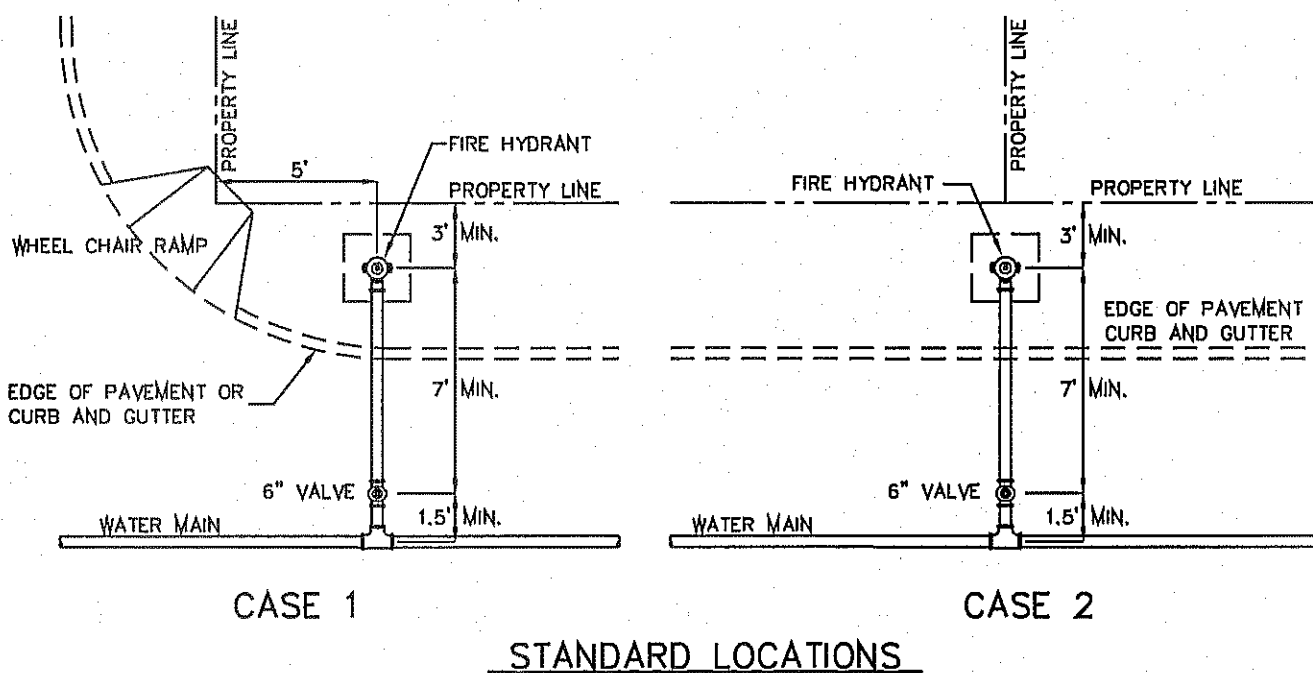


GENERAL NOTES:

- 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 1/8" ± / PER FOOT (AASHTO M306-07).
- WEIGHT MAY VARY 5% ± (AASHTO M306-07).

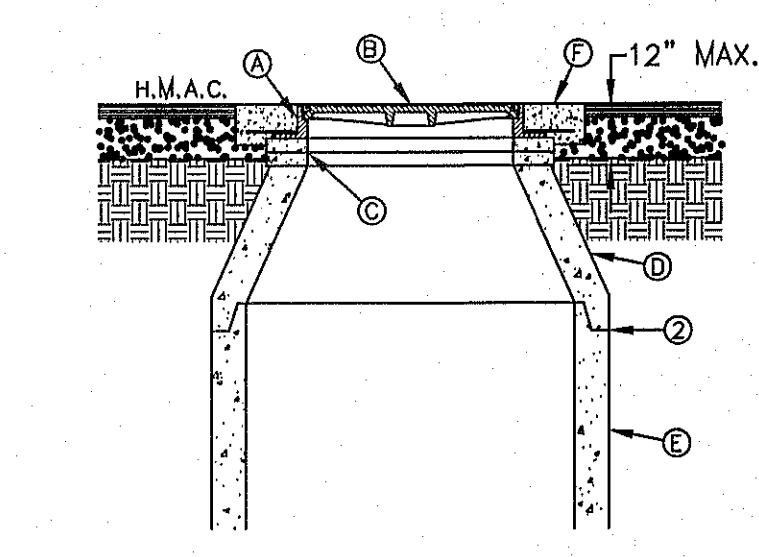
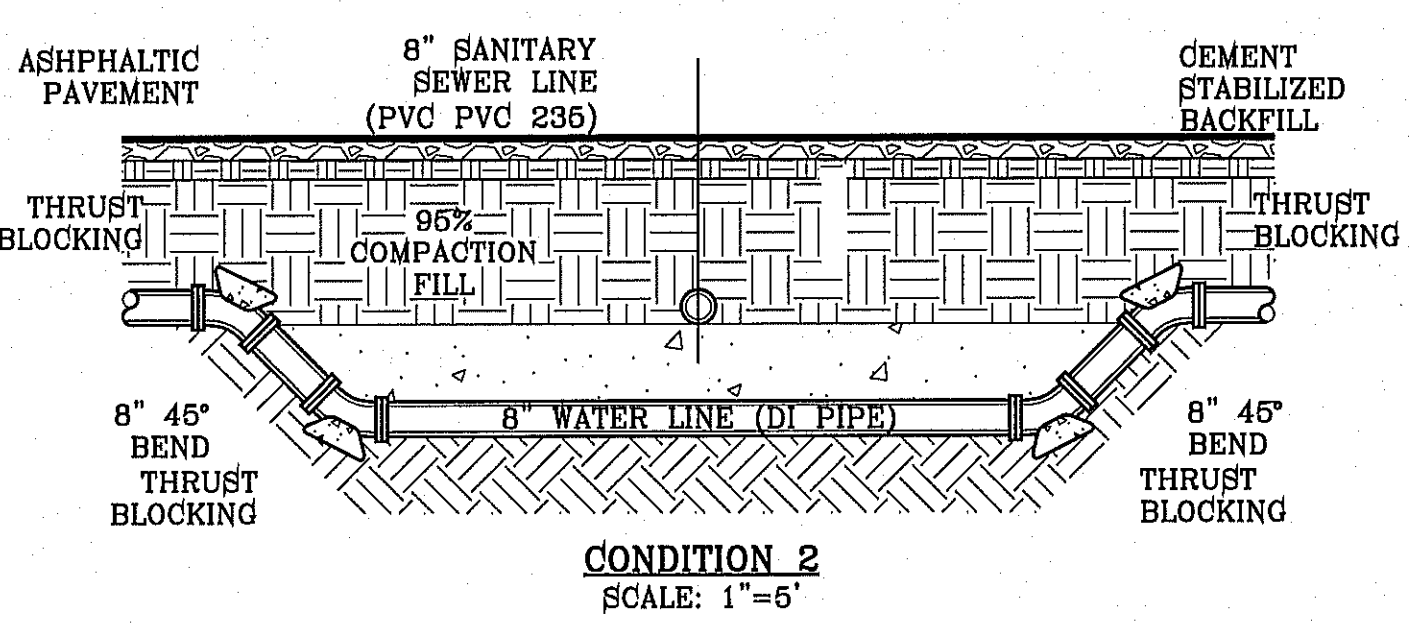
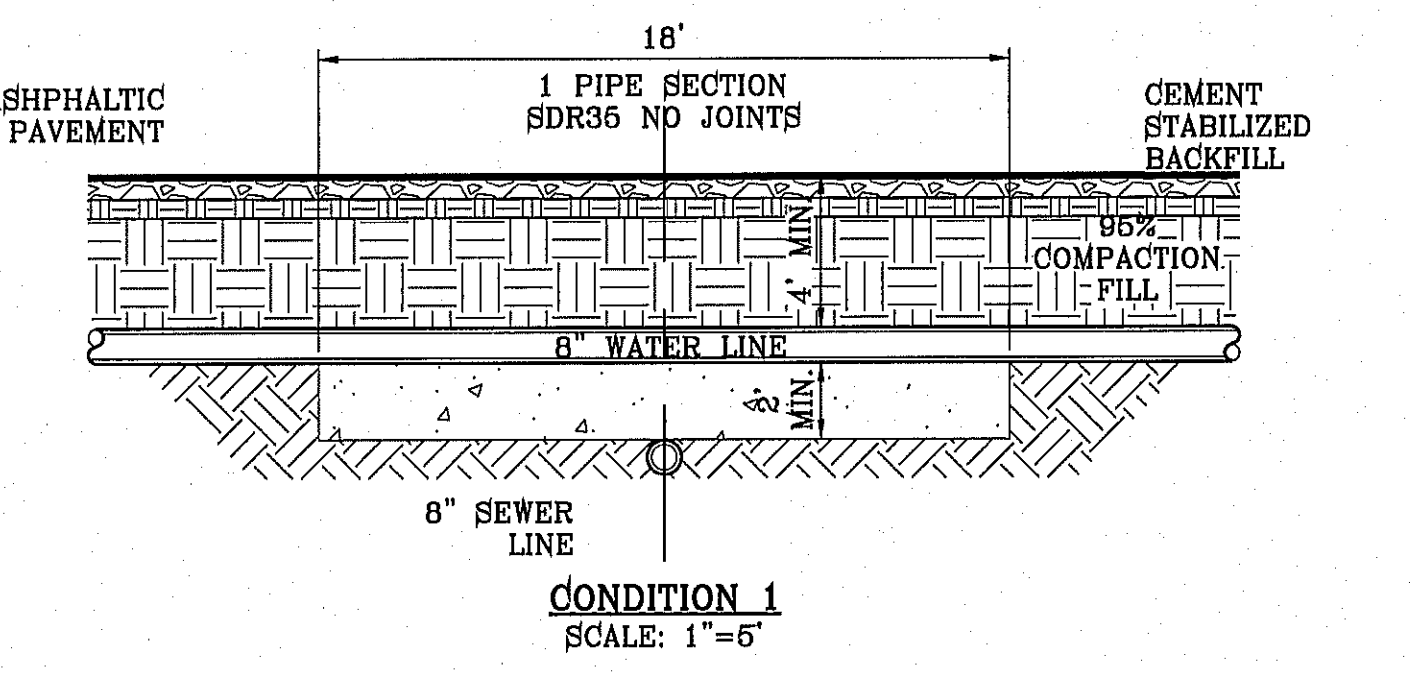
MANHOLE RING	MANHOLE - ALL TYPES	*MANHOLE TYPE A, A1, A2 & C
A	33"	25 1/2"
B	31 1/2"	24 1/8"
C	31 1/2"	23 3/8"
D	30"	22 1/2"
E	29 1/2"	32"
F	9 1/2"	1 1/8"
WEIGHT	220 lbs.	170 lbs.

*OBSOLETE - DO NOT USE (FOR REFERENCE ONLY)



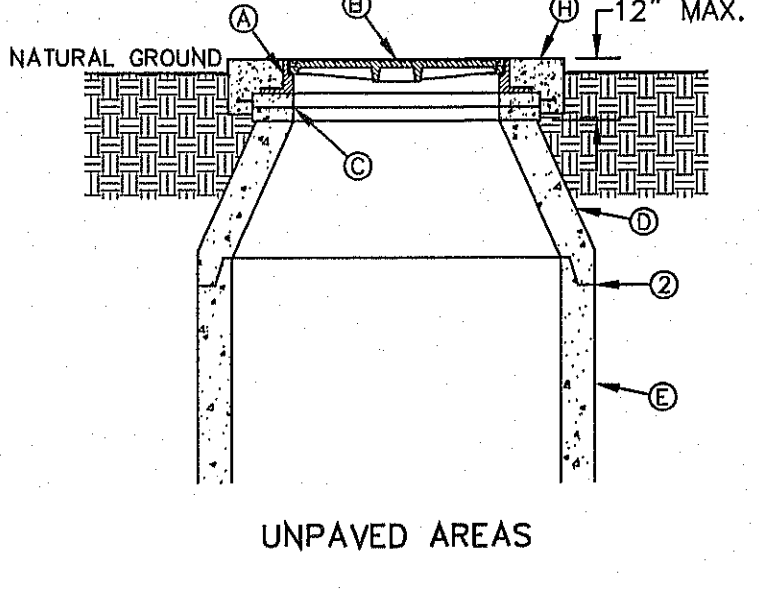
GENERAL NOTES:

- 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.
- FOR CASE 2 FIRE HYDRANT SHALL BE LOCATED AT THE PROPERTY LINE COMMON TO ADJOINING LOTS.
- FOR CASE 3 AND IV WHERE THE DISTANCE BETWEEN THE VALVE AND THE HYDRANT IS LESS THAN 7 FT. PLACE HYDRANT AS SHOWN.
- FOR INSTALLATION OF FIRE HYDRANT SEE DETAIL 280-1 OR 280-2.
- 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.).
- WHEN INSTALLATION IS WITHIN 10 FT. RIGHT OF WAY, HYDRANT SHALL NOT BE PLACED IN SIDEWALK AREA OR ANY CLOSER THAN 5' FROM BACK OF CURB.



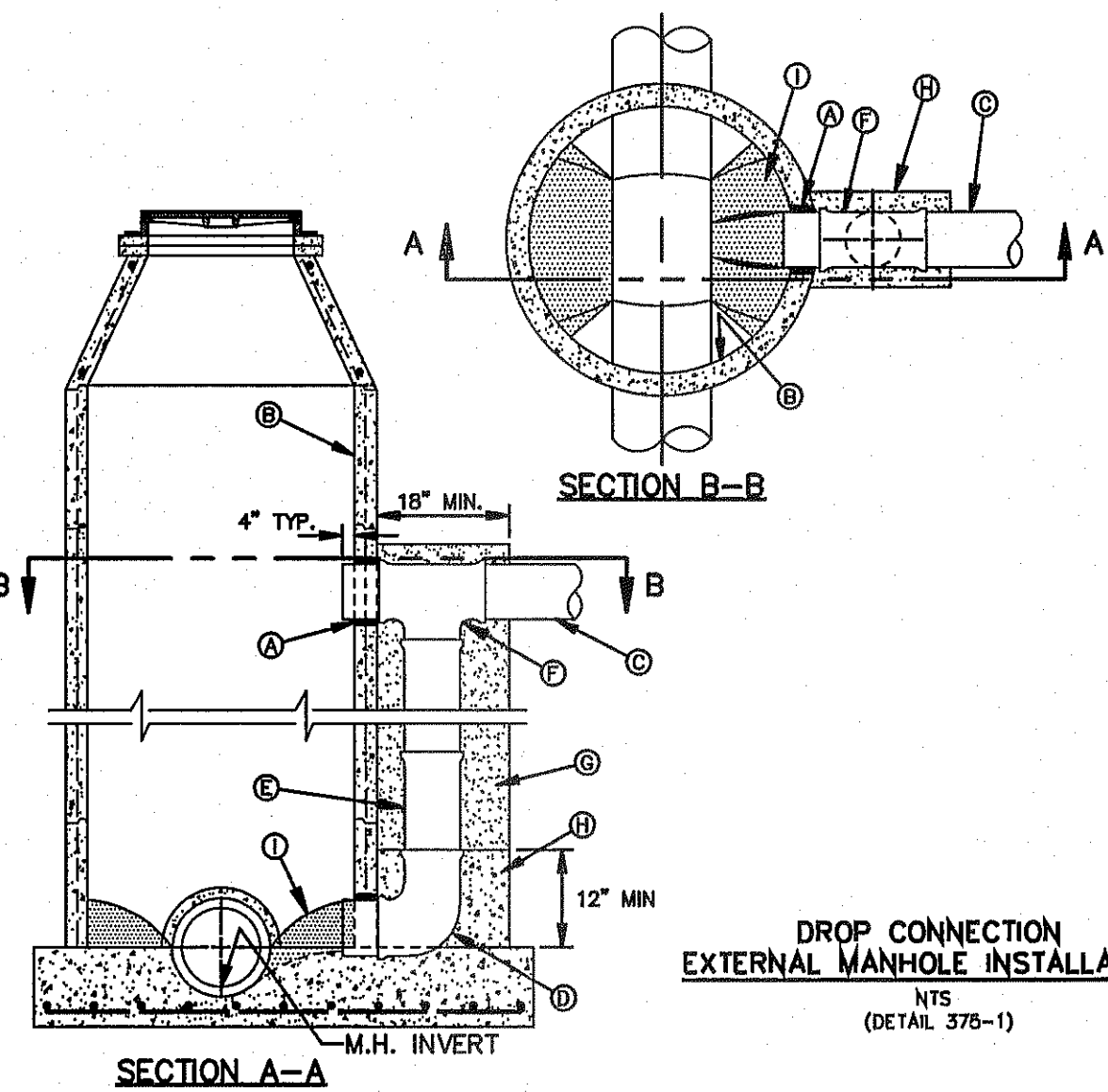
GENERAL NOTES:

- MANHOLE TYPE SHALL BE AS SHOWN ON THE PLANS.
- SEAL JOINTS PER SPECIFICATIONS.



CONSTRUCTION KEY NOTES:

- MANHOLE RING (SEE DETAIL 377).
- MANHOLE COVER (SEE DETAIL 378).
- CONCRETE ADJUSTMENT RINGS AS REQUIRED.
- MANHOLE CONE SECTION.
- MANHOLE BARREL SECTION.
- CONCRETE COLLAR (SEE DETAIL 184-1) FLUSH WITH TOP OF H.M.A.C.
- MANHOLE RING FLUSH WITH TOP OF CONCRETE. CONCRETE COLLAR NOT NEEDED.
- CONCRETE APRON (SEE DETAIL 184-2) FLUSH WITH MANHOLE RING AND 2" ABOVE NATURAL GROUND.

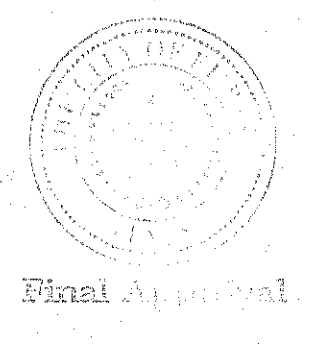


GENERAL NOTES:

- DROP CONNECTION SHOWN MAY BE USED ON ALL MANHOLE TYPES (NOT RECOMMENDED IN GROUND WATER CONDITIONS).
- DROP CONNECTION TO BE CONSTRUCTED WHEN INVERT ELEVATION OF INFLUENT PIPE IS 3 FEET (OR GREATER) ABOVE THE MANHOLE INVERT.

CONSTRUCTION KEY NOTES:

- PIPE OPENINGS IN MANHOLE RISERS SHALL HAVE COMPRESSION TYPE FLEXIBLE PIPE TO MANHOLE CONNECTORS (A.S.T.M.- C923) "KOR-N-SEAL" OR APPROVED EQUAL.
- MANHOLE WALL.
- INFLUENT SEWER PIPE.
- 90° BEND (P.V.C.).
- P.V.C. PIPE (SDR 35).
- P.V.C. TEE.
- CONCRETE FLOWABLE FILL.
- USE GROUT TO FORM A SMOOTH CHANNEL TO MANHOLE INVERT.



PROJECT NAME: TIERRA DEL ESTE UNIT SEVENTY TWO
 CITY MONUMENT AT THE CENTERLINE INTERSECTION OF RALPH SETSINGER DR. AND GALICENO PL. ELEVATION 4026.93 ... CITY DATUM
 REVISIONS: PSB, REVISIONS
 DATE: 1-27-2012
 BY: RO

BEING PORTION OF SECTIONS 97 AND 48, BLOCK 78, TOWNSHIP 2, SURVEY 1, AND PACIFIC RAILWAY CO., SURVEY 1, CITY OF EL PASO, EL PASO COUNTY, TEXAS CONTAINING: 97.651 ACRES

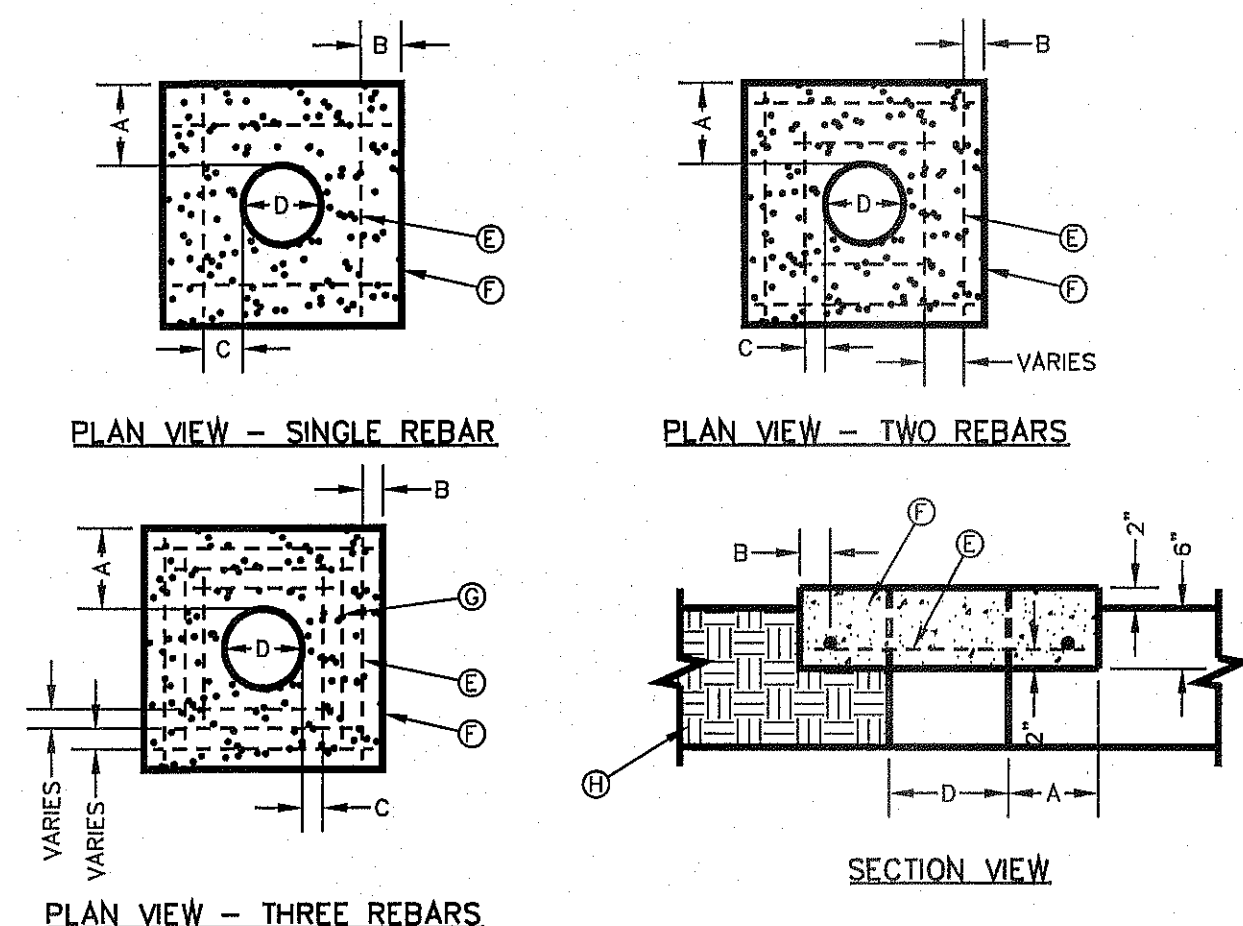
ENGINEER'S SEAL: CONDE INC. ENGINEERING / PLANNING SURVEYING / GPS 6080 SURVEY DE SITE 100 EL PASO, TEXAS 79905 PHONE: (915) 592-0263 FAX: (915) 592-0266
 HORIZ: ---
 VERT: ---
 DATE: SEPT. 2013
 DESIGN BY: Y.C.
 INITIATED BY: R.O.
 CHECKED BY: Y.C.
 JOB NO.: 112-08

CONDE INC. ENGINEERING / PLANNING SURVEYING / GPS 6080 SURVEY DE SITE 100 EL PASO, TEXAS 79905 PHONE: (915) 592-0263 FAX: (915) 592-0266

SHEET TITLE: SEWER DETAILS
 SHEET NO. OF 70

EL PASO WATER UTILITY DETAILS
 NUMBERS:
 180, 370-1, 376, 377, 378, 391

TIERRA DEL ESTE UNIT SEVENTY TWO



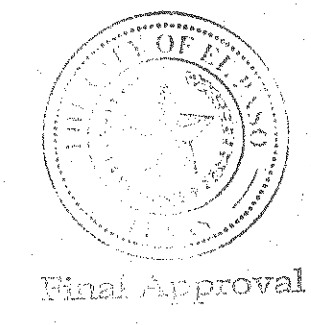
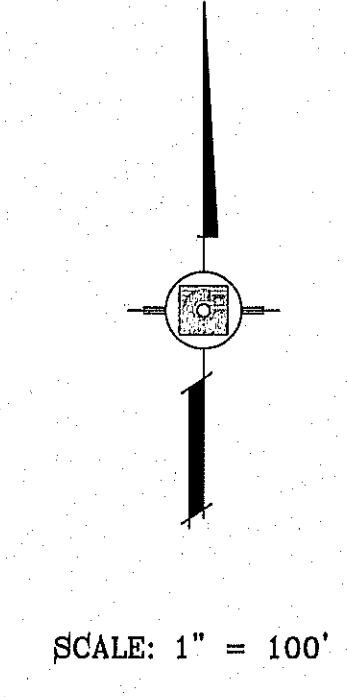
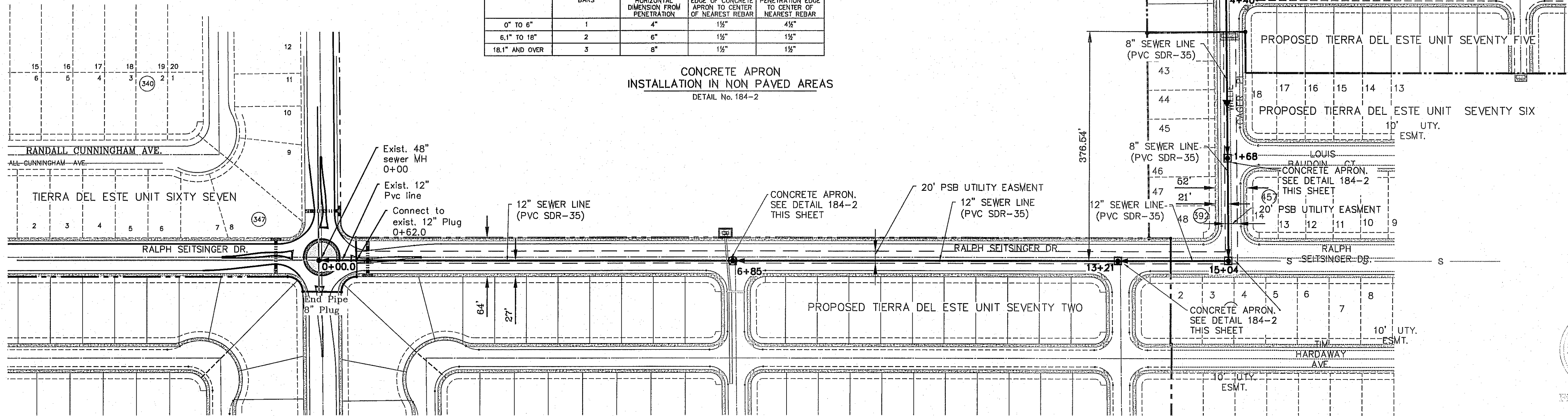
"D" DIAMETER OF PENETRATION	NUMBER OF #3 REINFORCING STEEL BARS	"A" MINIMUM CONCRETE HORIZONTAL DIMENSION FROM PENETRATION	"B" MINIMUM CLEARANCE FROM EDGE OF CONCRETE APRON TO CENTER OF NEAREST REBAR	"C" MINIMUM CLEARANCE FROM PENETRATION EDGE TO CENTER OF NEAREST REBAR
0" TO 6"	1	4"	1 1/2"	4 1/2"
6.1" TO 18"	2	6"	1 1/2"	1 1/2"
18.1" AND OVER	3	8"	1 1/2"	1 1/2"

- GENERAL NOTES:**
- THE CONCRETE APRON SHOULD BE CAST IN-PLACE CONCRETE. (MINIMUM 28 DAY COMPRESSIVE STRENGTH 4000 PSI. HIGH EARLY CONCRETE IS REQUIRED)
 - TOPS OF CONCRETE APRON SHALL BE FLUSH WITH ROADWAY SURFACE OR FINISHED GRADE UNLESS OTHERWISE SPECIFIED BY THE ENGINEER.
 - PROVIDE A MINIMUM OF 1 1/2" OF CONCRETE COVER FOR ALL REINFORCEMENT STEEL
 - REINFORCING SHALL MEET ASTM C-478 AND TRAFFIC LOADING (HS-20).
 - NO. 3 REBARS SPACED EQUALLY MAY BE LAP TIED OR SQUARE HQPS.

- CONSTRUCTION KEY NOTES:**
- #3 REINFORCING STEEL TYP.
 - CONCRETE APRON.
 - #3 REINFORCING STEEL EQUALLY SPACED.
 - COMPACTED BACKFILL.

- NOTES:**
- CONCRETE APRON SHALL BE SET AT THE PROPOSED FINISHED FINAL GRADE OF RALPH SEITSINGER DR. AND WILLIE CAGER PL.
 - THE WATER AND SANITARY SEWER SYSTEMS PERTAINING TO TERRA DEL ESTE 71 REQUIRE FINAL ACCEPTANCE BY EPWU-PSB IN ORDER TO ACCEPT THE SANITARY SEWER FLOWS FROM TERRA DEL ESTE UNIT 75 UNTO THE MAIN LOCATED ALONG HARRY FLOURNOY AVE. LOCATED WITHIN TERRA DEL ESTE 71.
 - THE TERRA DEL ESTE UNIT 75 WATER AND SANITARY SEWER MAIN PROJECT WILL REQUIRE TWO (2) SEPARATE DEVELOPMENT AGREEMENTS (WATER AND/OR SEWER FACILITY EXTENSIONS) [THE AGREEMENTS]. ONE AGREEMENT WILL PERTAIN TO THE TERRA DEL ESTE UNIT 75 SUBDIVISION. THE SECOND AGREEMENT WILL PERTAIN TO THE OFF-SITE SANITARY SEWER MAIN.

CONCRETE APRON INSTALLATION IN NON PAVED AREAS
DETAIL No. 184-2



BENCHMARK

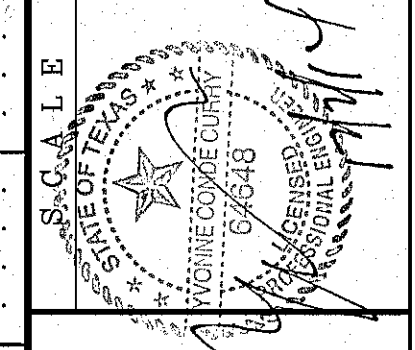
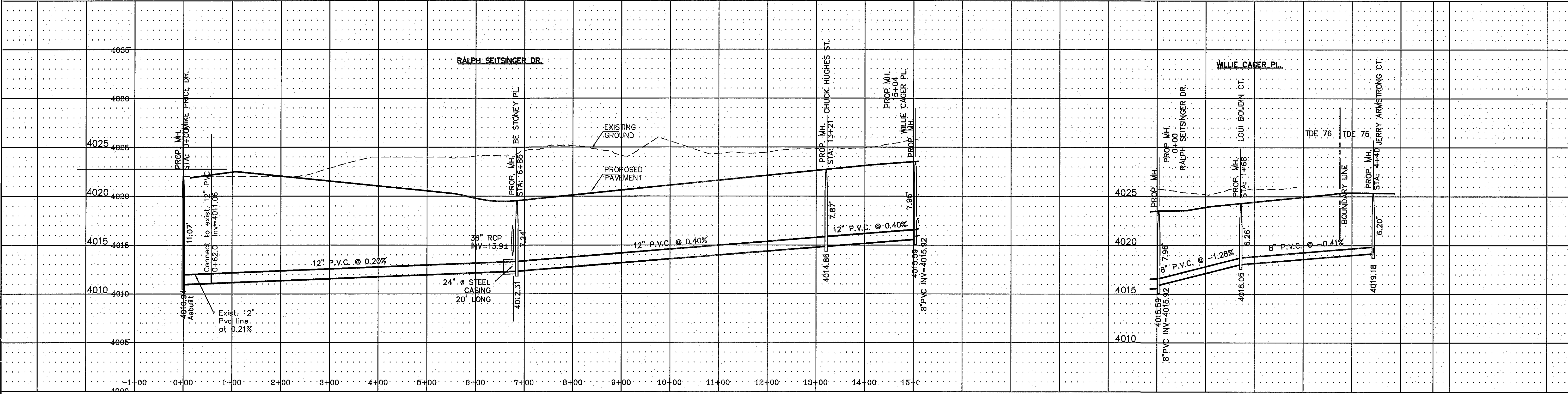
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	STREET DIMENSIONS	RO
	PSB REDLINES	R.O.
DATE	1-13-2014	
DATE	1-30-2014	

PROJECT NAME
RALPH SEITSINGER OFFSITE SEWER LINE

TERRA DEL ESTE UNIT SEVENTY TWO, SEVENTY SIX AND SEVENTY FIVE

HORIZ: 1" = 100'
VERT: 1" = 5'
DATE: JAN. 2012
DESIGN BY: YC
INITIATED BY: RO
CHECKED BY: YC & FC
JOB NO.: 119-83

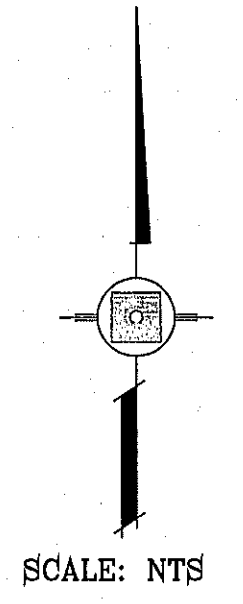
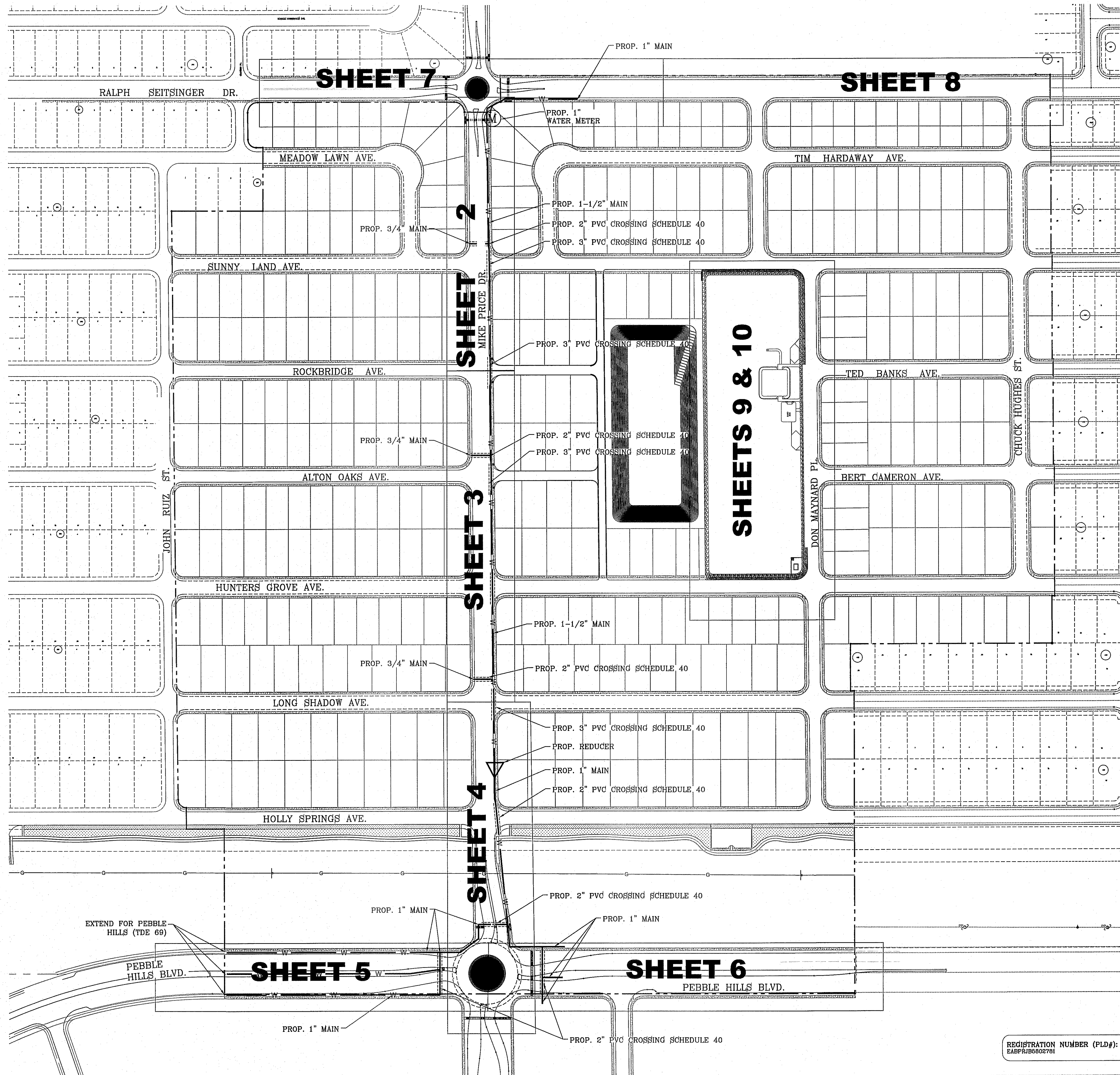
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ENGINEER'S SEAL
CONDE INC.
ENGINEERING / PLANNING
SURVEYING / GPS
6080 SURETY DR. SPTS 100
EL PASO, TEXAS 79905
PHONE: (815) 592-0283
FAX: (815) 592-0286

SHEET TITLE
STREET PLAN - PROFILE
SANITARY SEWER PROFILE OFFSITE LINE

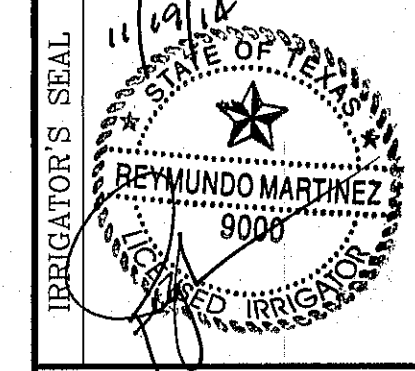
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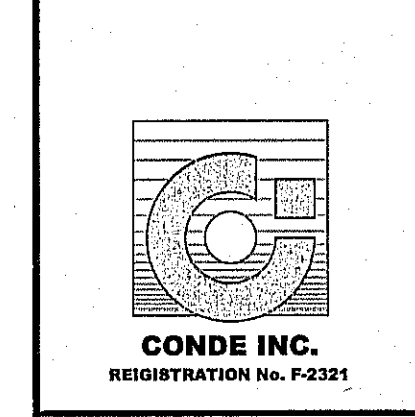
BENCHMARK	
CITY MONUMENT AT THE CENTERLINE INTERSECTION OF MAYNARD DR. AND A. STATION ELEVATION = 4668.20 CITY DATUM	
DATE	
REVISIONS	
BY	

PROJECT NAME
**TERRA DEL ESTE UNIT
 SEVENTY TWO
 PARK SITE, MEDIANS,
 AND PARKWAYS**

SCALE
 HORIZ: 1" = 100'
 VERT: 1" = 100'
 DATE: MARCH 2014
 DESIGN BY: RM/RR
 INITIATED BY: R.R.
 CHECKED BY: R.M.
 JOB NO.:



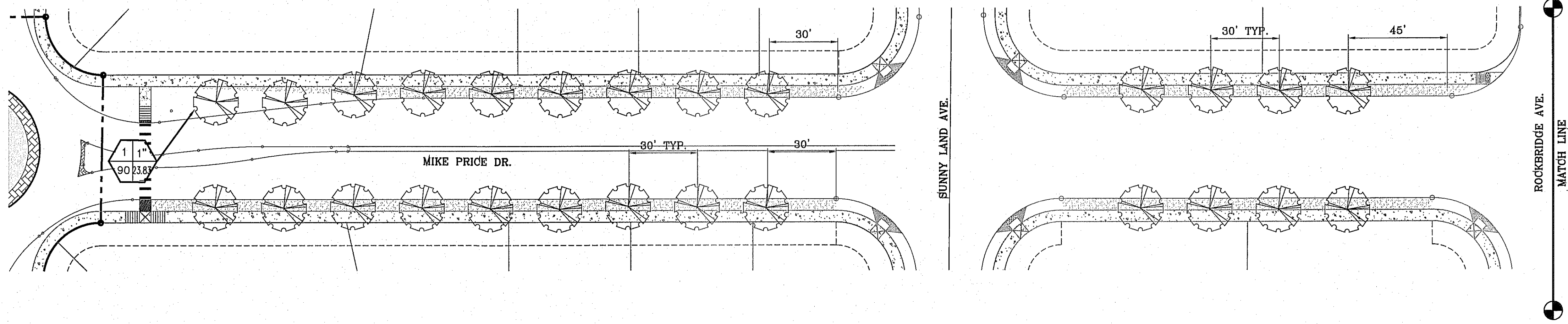
CONDE INC.
 ENGINEERING / PLANNING
 SURVEYING / GPS
 6080 SURETY DR. STE 100
 EL PASO, TEXAS 79905
 PHONE: (915) 592-0283
 FAX: (915) 592-0286



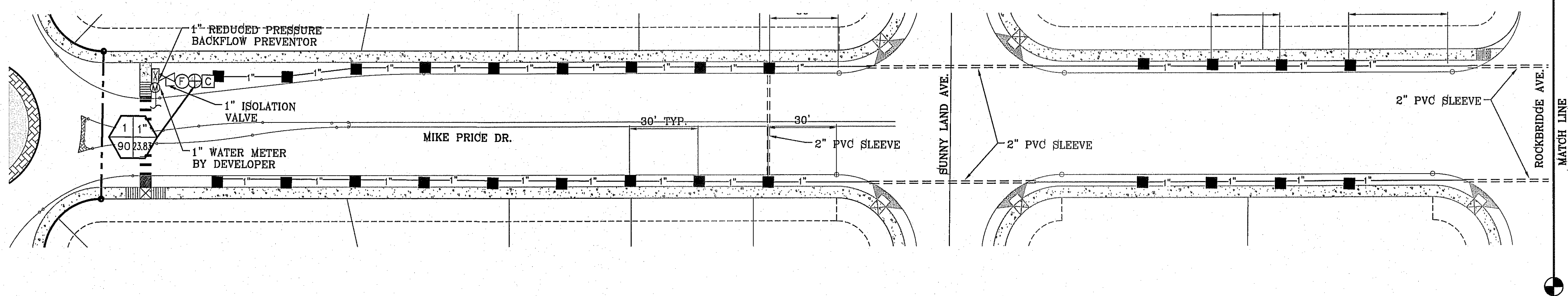
SHEET TITLE
SHEET INDEX
 SHT L1 OF L13

REGISTRATION NUMBER (PLD#):
 BABPR16602781

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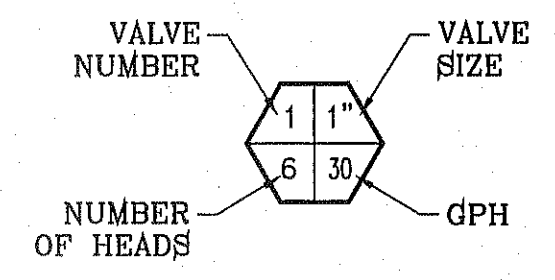
LANDSCAPE PLAN



IRRIGATION PLAN

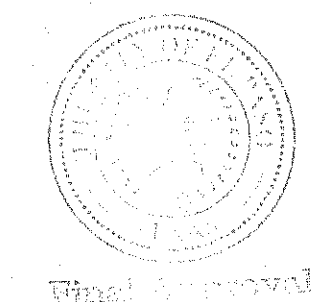
LEGEND

---	BOUNDARY LINE
---	TYPE K 1" COPPER WATER TUBE
---	PVC SCHEDULE 40 WATER MAIN (SIZE AS NOTED)
---	PVC CLASS C160 WATER LATERAL (1" UNLESS OTHERWISE NOTED)
---	PVC SLEEVE (TWICE THE SIZE OF PIPE)
⊕	1" WATER METER BY DEVELOPER
⊕	PROPOSED REDUCED PRESSURE BACKFLOW PREVENTOR
⊕	TBO'S CONTROL MODULE
⊕	1" REMOTE CONTROL VALVE-WEATHERMATIC
■	XERIBIRD 6 EMITTER
⊕	PIPE SIZE (SIZE AS NOTED)
⊕	STUB OUT WITH CAP FOR FUTURE DRIP
⊕	ISOLATION BRASS BALL VALVE
⊕	AM1AD 1" WYE FILTER & WILKINS 600 SERIES PRESSURE REGULATOR WITH PRESSURE GAUGES BASED STATIC PRESSURE



NOTE:
IRRIGATION IS REGULATED BY THE TEXAS COMMISSION IN 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

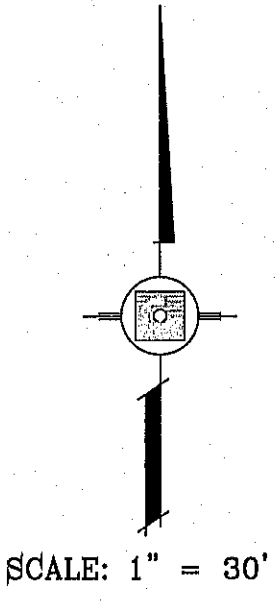
COMMON NAME	BOTANICAL NAME	SIZE	QUANTITY	HEIGHT
LIVE OAK	QUERCUS VIRGINIANA	2" GAL.	68	10'
<p>FADRE CANYON CHAT, 3" DEPTH WITH DeWitt Pro-5 WEED BARRIER FABRIC TO BE PINNED DOWN AT 3' ON CENTER EACH WAY & AT 12" ON CENTER ALONG PERIMETER, OVERLAP MIN. 12" AT BEAMS</p>				



- KEYED NOTES:**
- IRRIGATION TAP POINT VERIFY 55 PSI. NOTIFY OWNER IN WRITING IF ABOVE CRITERIA NOT MET.
 - CONTROLLER LOCATION 110V POWER BY DEVELOPER. COORDINATE EXACT LOCATION IN FIELD.
 - CONTRACTOR REQUIRED TO APPLY FOR AND OBTAIN ALL PERMITS AND PASS ALL INSPECTIONS.

NOTES:

- PVC SLEEVES TO BE WRAPPED WITH MINIMUM 4 MIL PLASTIC AND TAPED WITH 3M BRAND HD PLASTIC TAPE
- QUICK COUPLER VALVES AND ISOLATION VALVES BOX ARE TO BE INSTALLED WITH TAG THAT READS, "NON POTABLE WATER NOT SAFE FOR DRINKING"



PROJECT NAME: **LANDSCAPING FOR PARKWAYS AND MEDIANS TERRA DEL ESTE UNIT SEVENTY TWO**

BENCHMARK: CITY MONUMENT AT THE CENTERLINE INTERSECTION OF FESTIVAL DR. AND N. STANTON DR. ELEVATION = 4368.20 CITY DATUM

DATE	REVISIONS	BY

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

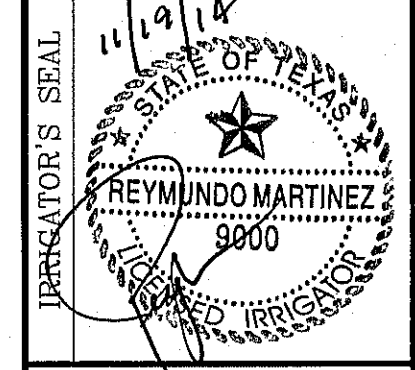
DATE: MARCH 2014

DESIGN BY: RM/RR

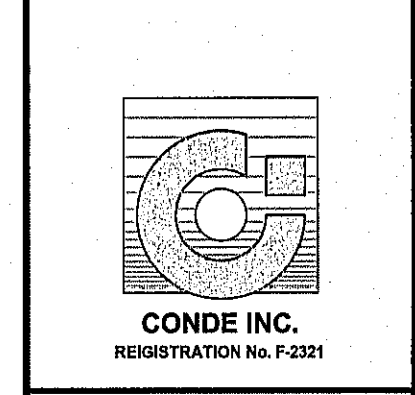
INITIATED BY: R.R.

CHECKED BY: R.M.

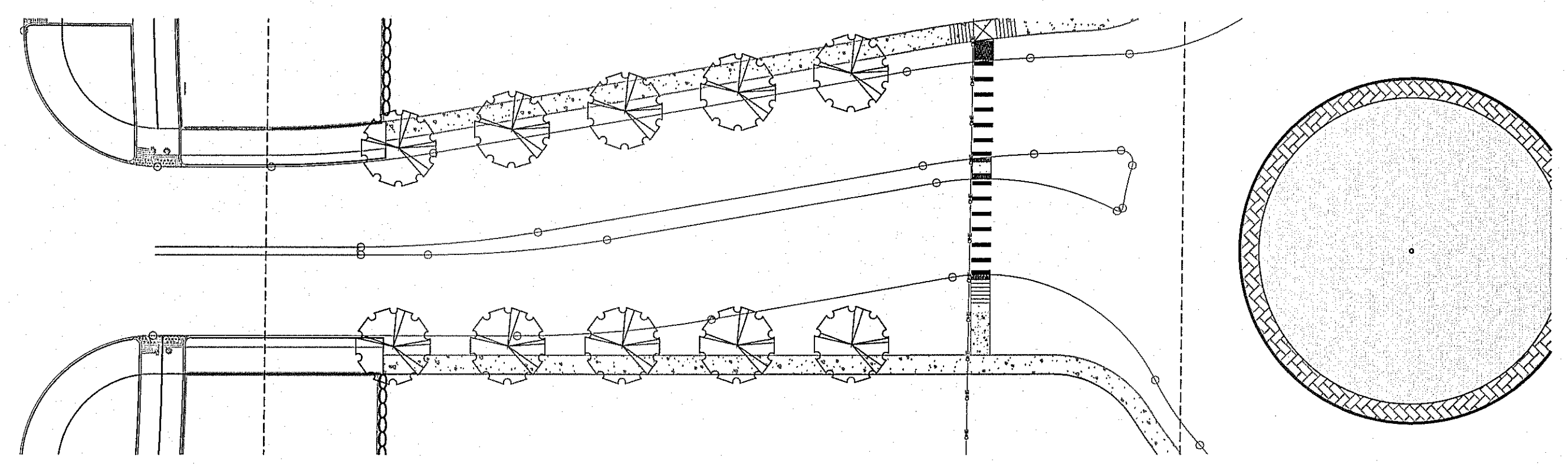
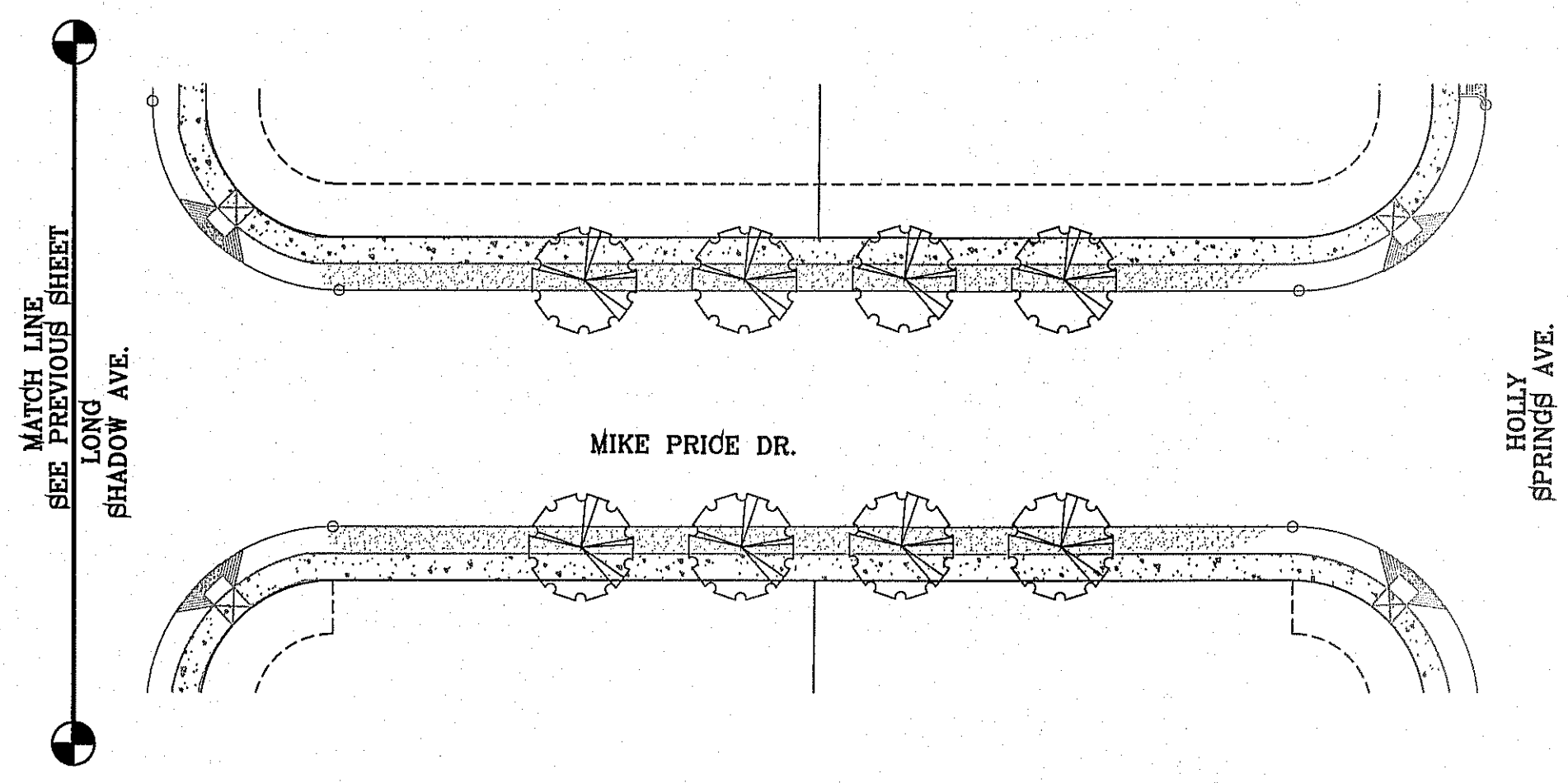
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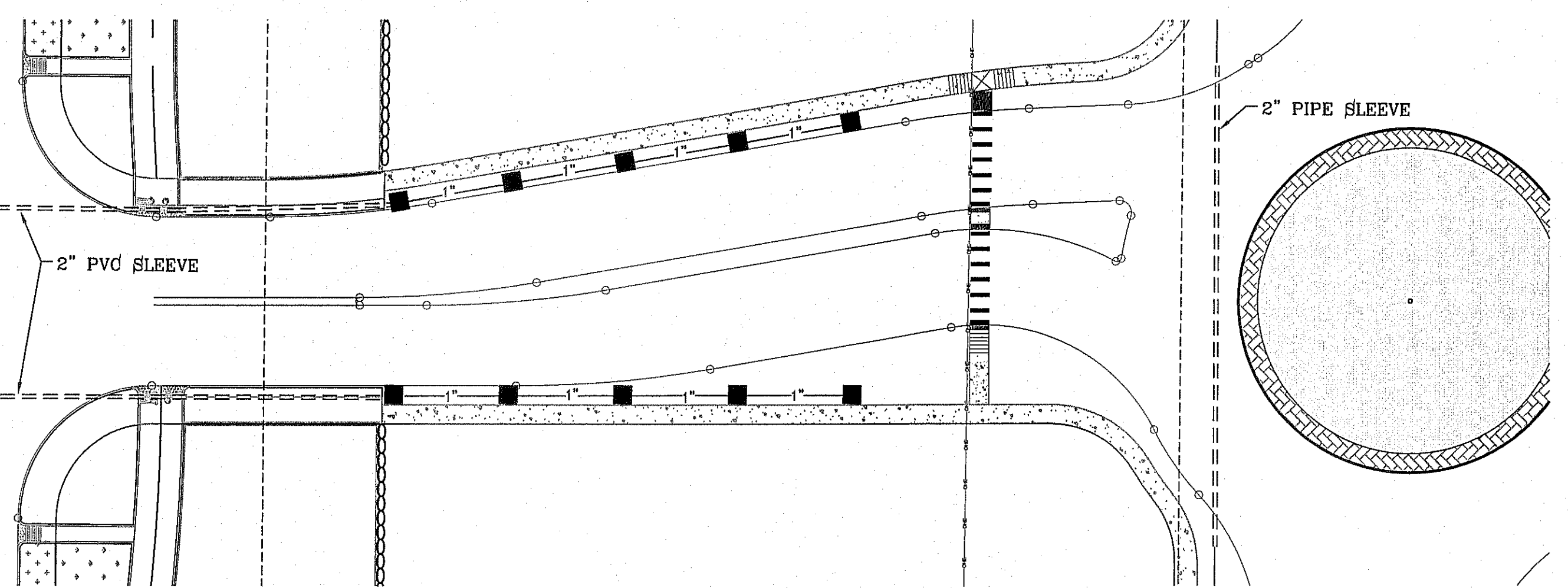
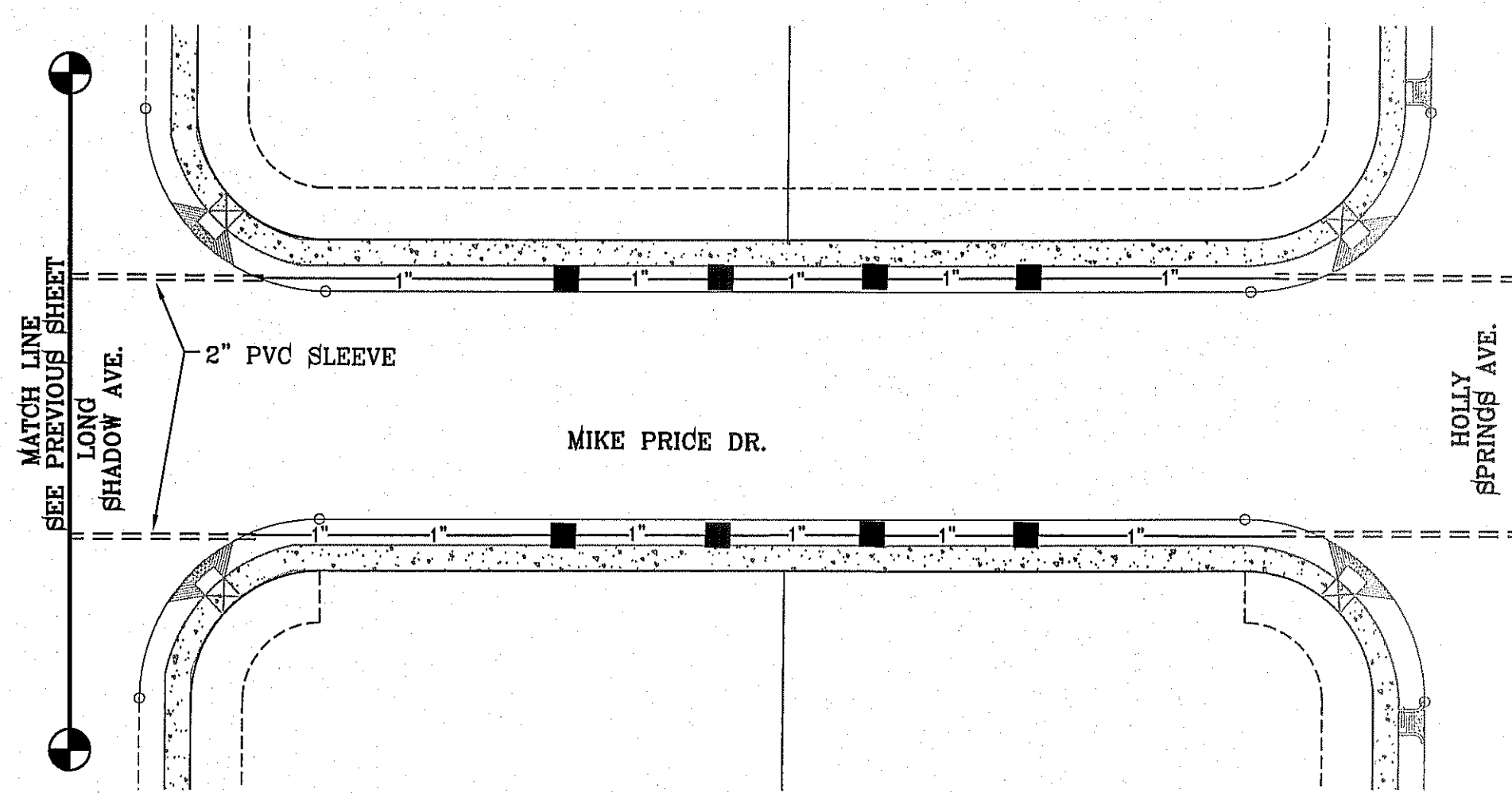
CONDE INC.
ENGINEERING / PLANNING / SURVEYING / GPS
6080 SURETY DR. STE 100
EL PASO, TEXAS 79905
PHONE: (915) 592-0283
FAX: (915) 592-0286



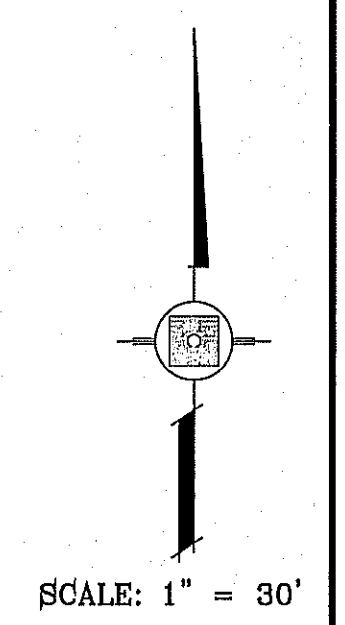
FILE LOCATION S:\LANDSCAPE\TDE 72\DWG\MIKE PRICE PLOTTED ON Wednesday, November 19, 2014 11:54:25 AM BY RUBEN RIVERA



LANDSCAPE PLAN

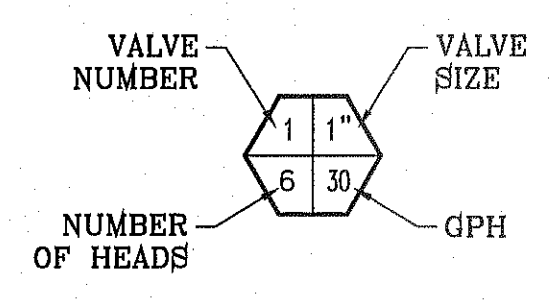


IRRIGATION PLAN



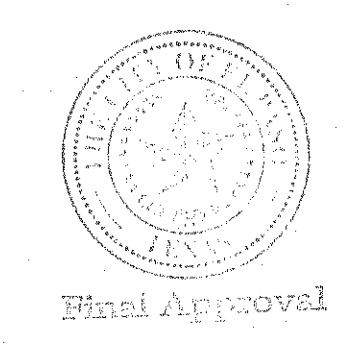
LEGEND

- BOUNDARY LINE
- PVC CLASS C160 WATER LATERAL (SIZE AS NOTED)
- PVC SLEEVE (TWICE THE SIZE OF PIPE)
- ⊕ 1" WATER METER BY DEVELOPER
- ⊕ PROPOSED REDUCED PRESSURE BACKFLOW PREVENTOR
- ⊕ TBO'S CONTROL MODULE
- ⊕ 1" REMOTE CONTROL VALVE-WEATHERMATIC
- XERIBIRD 6 EMMITER
- x" PIPE SIZE (SIZE AS NOTED)
- ⊕ STUB OUT WITH CAP FOR FUTURE DRIP
- ⊕ ISOLATION BRASS BALL VALVE
- ⊕ AMIAD 1" WYE FILTER & WILKINS 600 SERIES PRESSURE REGULATOR WITH PRESSURE GAUGES BASED STATIC PRESSURE



NOTE:
IRRIGATION IS REGULATED BY THE TEXAS COMMISSION IN 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

COMMON NAME	BOTANICAL NAME	SIZE	QUANTITY	HEIGHT
LIVE OAK	QUERCUS VIRGINIANA	2" GAL.	68	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				



- KEYED NOTES:**
- IRRIGATION TAP POINT VERIFY 65 PSI. NOTIFY OWNER IN WRITING IF ABOVE CRITERIA NOT MET.
 - CONTROLLER LOCATION 110V POWER BY DEVELOPER. COORDINATE EXACT LOCATION IN FIELD.
 - CONTRACTOR REQUIRED TO APPLY FOR AND OBTAIN ALL PERMITS AND PASS ALL INSPECTIONS.

NOTES:

- PVC SLEEVES TO BE WRAPPED WITH MINIMUM 4 MIL PLASTIC AND TAPED WITH 3M BRAND HD PLASTIC TAPE
- QUICK COUPLER VALVES AND ISOLATION VALVES BOX ARE TO BE INSTALLED WITH TAG THAT READS, "NON POTABLE WATER NOT SAFE FOR DRINKING"

PROJECT NAME
LANDSCAPING FOR PARKWAYS AND MEDIANS TIERRA DEL ESTE UNIT SEVENTY TWO

SCALE
HORIZ: 1" = 30'
VERT: 1" = 10'
DATE: MARCH 2014
DESIGN BY: RM/RR
INITIATED BY: R.R.
CHECKED BY: R.M.
JOB NO.:

IRRIATOR'S SEAL
REYNALDO MARTINEZ
9000

CONDE INC.
ENGINEERING / PLANNING
SURVEYING / GPS
6080 SURETY DR STE 100
DEL PASO, TEXAS 79605
PHONE: (916) 592-0283
FAX: (916) 592-0286

CONDE INC.
REGISTRATION No. F-2321

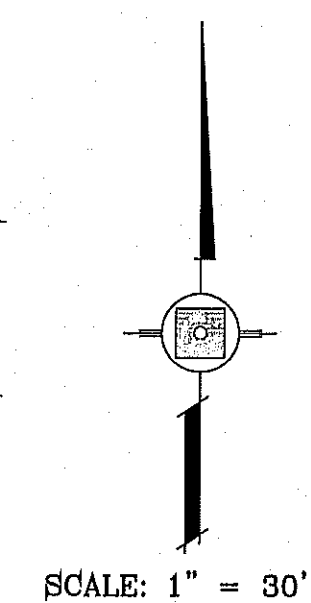
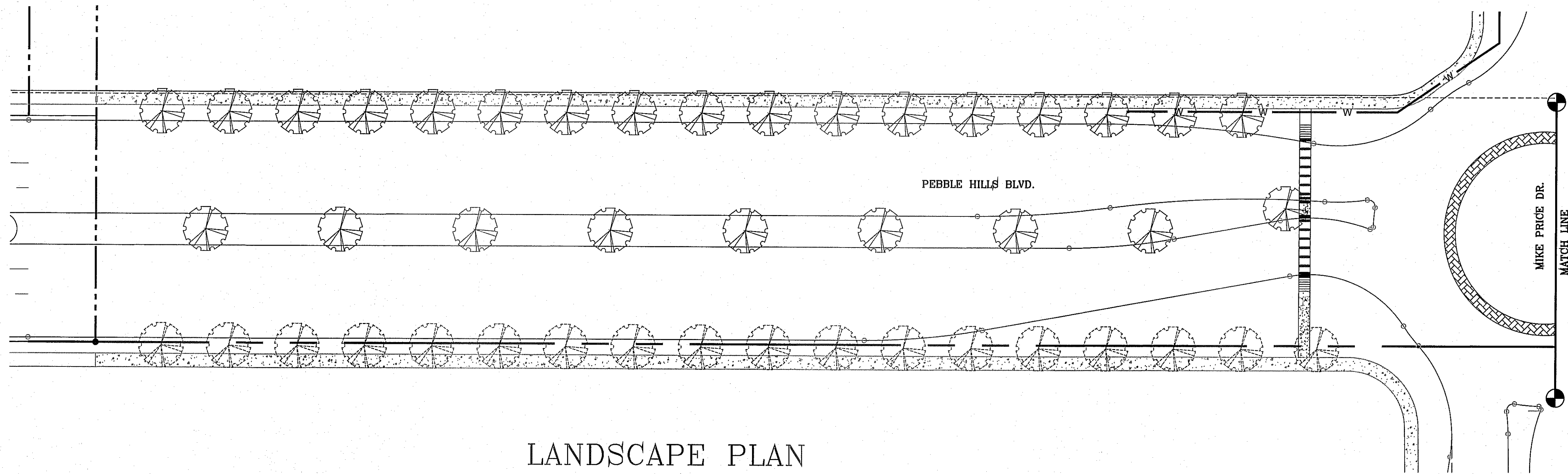
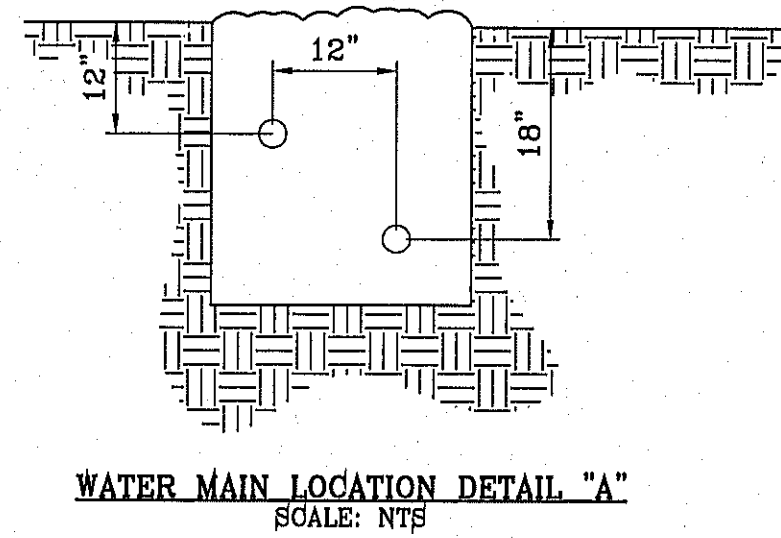
SHEET TITLE
MIKE PRICE DR.

SHT **L4** OF **L13**

BENCHMARK
CITY MONUMENT AT THE CENTERLINE INTERSECTION OF FESTIVAL DR. AND N. STANTON DR.
ELEVATION = 4366.20 CITY DATUM

DATE	REVISIONS	BY

FILE LOCATION S:\LANDSCAPE\DE 72\DWG\PEBBLE HILLS PLOTTED ON Wednesday, November 19, 2014 11:54:54 AM BY RUBEN RIVERA



WATER MAIN AND LATERAL NOTES:

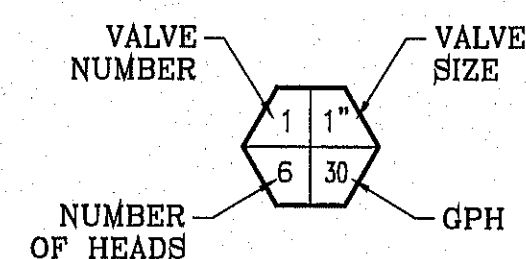
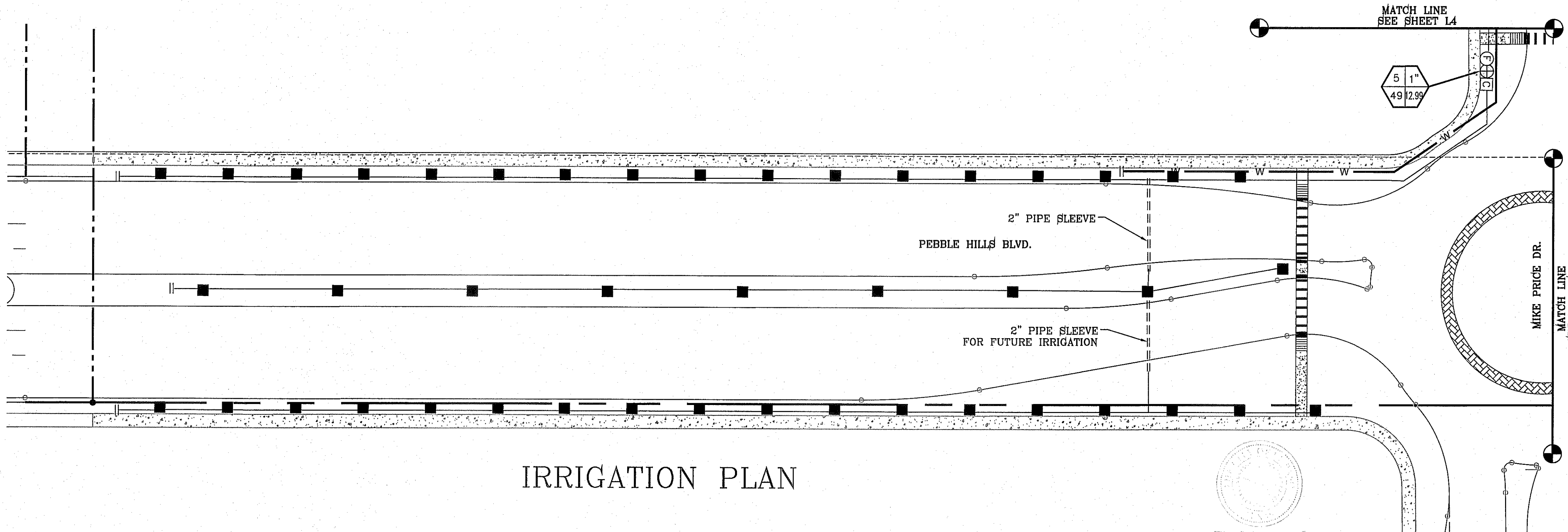
1. WATER MAIN SHOWN IN EXAGGERATED LOCATION FOR CLARITY ON PLAN VIEW PURPOSES ONLY. SEE DETAIL "A" ON THIS SHEET FOR WATER MAIN AND LATERAL LOCATION.

2. ALL LATERAL SIZE TO BE 3/4" UNLESS OTHERWISE NOTED.

- KEYED NOTES:**
- IRRIGATION TAP POINT VERIFY 65 PSI. NOTIFY OWNER IN WRITING IF ABOVE CRITERIA NOT MET.
 - CONTROLLER LOCATION 110V POWER BY DEVELOPER. COORDINATE EXACT LOCATION IN FIELD.
 - CONTRACTOR REQUIRED TO APPLY FOR AND OBTAIN ALL PERMITS AND PASS ALL INSPECTIONS.

NOTES:

- PVC SLEEVES TO BE WRAPPED WITH MINIMUM 4 MIL PLASTIC AND TAPED WITH 3M BRAND HD PLASTIC TAPE
- QUICK COUPLER VALVES AND ISOLATION VALVES BOX ARE TO BE INSTALLED WITH TAG THAT READS "NON POTABLE WATER NOT SAFE FOR DRINKING"



NOTE:
IRRIGATION IS REGULATED BY THE TEXAS COMMISSION IN 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

COMMON NAME	BOTANICAL NAME	SIZE	QUANTITY	HEIGHT
LIVE OAK	QUERCUS VIRGINIANA	2" GAL.	68	10'
FUTURE LIVE OAK	QUERCUS VIRGINIANA	2" GAL.	68	10'

PADRE CANYON CHAT, 3" DEPTH WITH DeWitt Pro-6 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

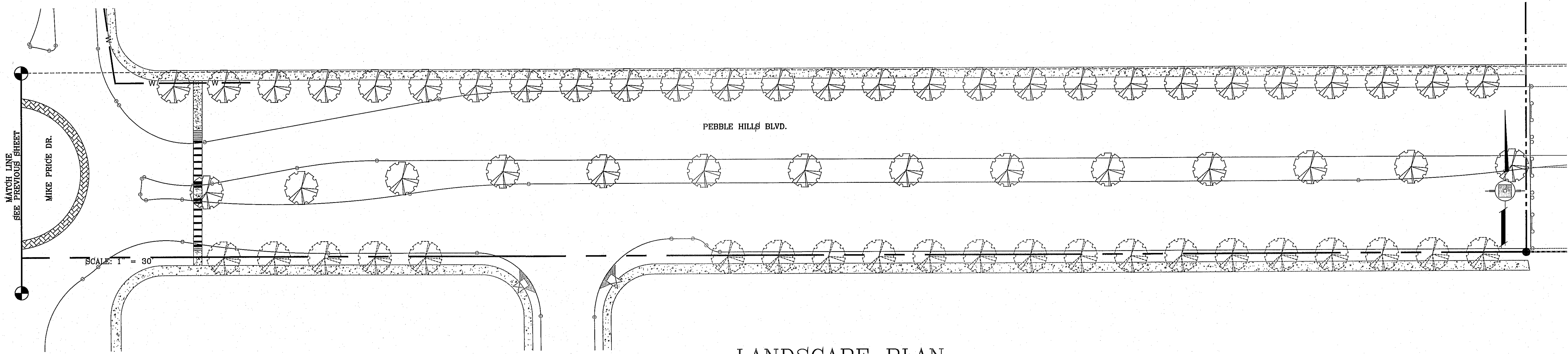
- BOUNDARY LINE
- PVC CLASS C160 WATER LATERAL (SIZE AS NOTED)
- PVC SLEEVE (TWICE THE SIZE OF PIPE)
- ⊕ 1" WATER METER BY DEVELOPER
- ⊕ PROPOSED REDUCED PRESSURE BACKFLOW PREVENTOR
- ⊕ TBO'S CONTROL MODULE
- ⊕ 1" REMOTE CONTROL VALVE-WEATHERMATIC
- ⊕ XERIBIRD 6 EMITTER
- ⊕ PIPE SIZE (SIZE AS NOTED)
- ⊕ STUB OUT WITH CAP FOR FUTURE DRIP
- ⊕ ISOLATION BRASS BALL VALVE
- ⊕ AMIAD 1" WYE FILTER & WILKINS 600 SERIES PRESSURE REGULATOR WITH PRESSURE GAUGES BASED STATIC PRESSURE

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

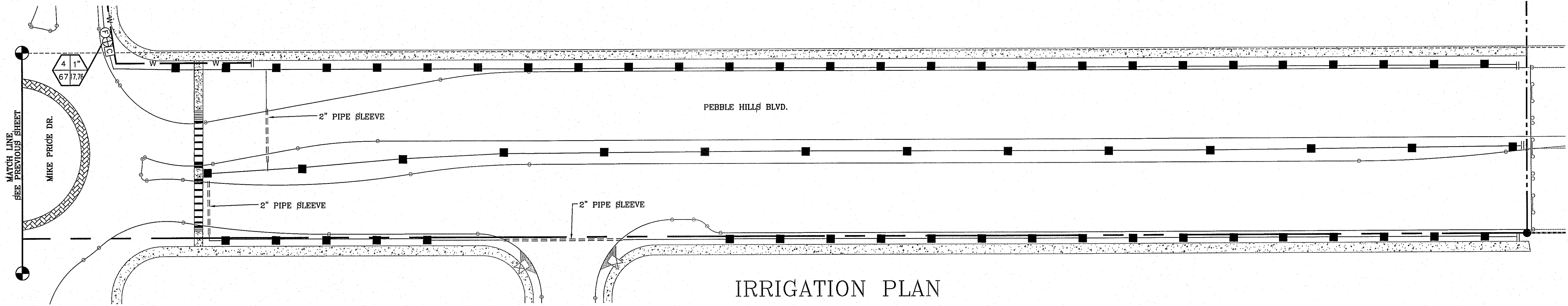
PEBBLE HILLS BLVD.

SHT L5 OF L13

FILE LOCATION SA\LANDSCAPE\TDE 72\DWG\PEBBLE HILLS PLOTTED ON Wednesday, November 19, 2014 11:54:45 AM BY RUBEN RIVERA



LANDSCAPE PLAN



IRRIGATION PLAN

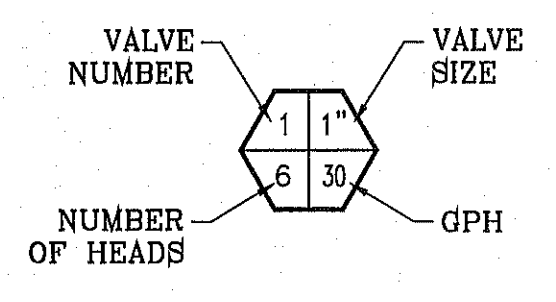
WATER MAIN AND LATERAL NOTES:
 WATER MAIN SHOWN IN EXAGGERATED LOCATION FOR CLARITY ON PLAN VIEW PURPOSES ONLY. SEE DETAIL "A" ON THIS SHEET FOR WATER MAIN AND LATERAL LOCATION.
 ALL LATERAL SIZE TO BE 3/4" UNLESS OTHERWISE NOTED.

- KEYED NOTES:**
- IRRIGATION TAP POINT VERIFY 65 PSL. NOTIFY OWNER IN WRITING IF ABOVE CRITERIA NOT MET.
 - CONTROLLER LOCATION 110V POWER BY DEVELOPER. COORDINATE EXACT LOCATION IN FIELD.
 - CONTRACTOR REQUIRED TO APPLY FOR AND OBTAIN ALL PERMITS AND PASS ALL INSPECTIONS.

NOTES:

- PVC SLEEVES TO BE WRAPPED WITH MINIMUM 4 MIL PLASTIC AND TAPED WITH 3M BRAND HD PLASTIC TAPE
- QUICK COUPLER VALVES AND ISOLATION VALVES BOX ARE TO BE INSTALLED WITH TAG THAT READS "NON POTABLE WATER NOT SAFE FOR DRINKING"

NOTE:
 IRRIGATION IS REGULATED BY THE TEXAS COMMISSION IN 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

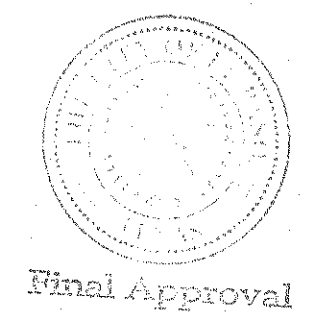


COMMON NAME	BOTANICAL NAME	SIZE	QUANTITY	HEIGHT
LIVE OAK	QUERCUS VIRGINIANA	2" GAL.	68	10'
FUTURE LIVE OAK	QUERCUS VIRGINIANA	2" GAL.	68	10'

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 BEAMS

LEGEND

- BOUNDARY LINE
- PVC CLASS C160 WATER LATERAL (SIZE AS NOTED)
- PVC SLEEVE (TWICE THE SIZE OF PIPE)
- 1" WATER METER BY DEVELOPER
- PROPOSED REDUCED PRESSURE BACKFLOW PREVENTOR
- TBOS CONTROL MODULE
- 1" REMOTE CONTROL VALVE-WEATHERMATIC
- XERIBIRD 6 EMMITER
- PIPE SIZE (SIZE AS NOTED)
- STUB OUT WITH CAP FOR FUTURE DRIP
- ISOLATION BRASS BALL VALVE
- AMIAID 1" WYE FILTER & WILKINS 600 SERIES PRESSURE REGULATOR WITH PRESSURE GAUGES BASED STATIC PRESSURE

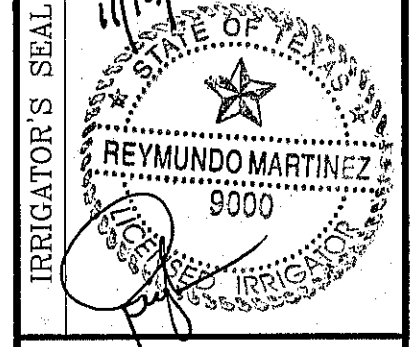


BENCHMARK
 CITY MONUMENT AT THE CENTERLINE INTERSECTION OF FESTIVAL DR. AND N. STANTON DR. ELEVATION = 4968.20CITY DATUM

DATE	REVISIONS

PROJECT NAME
LANDSCAPING FOR PARKWAYS AND MEDIANS
TERRA DEL ESTE UNIT SEVENTY TWO

SCALE
 HORIZ: 1" = 30'
 VERT: 1" = 10'
 DATE: MARCH 2014
 DESIGN BY: RM/RR
 INITIATED BY: R.R.
 CHECKED BY: R.M.
 JOB NO.:

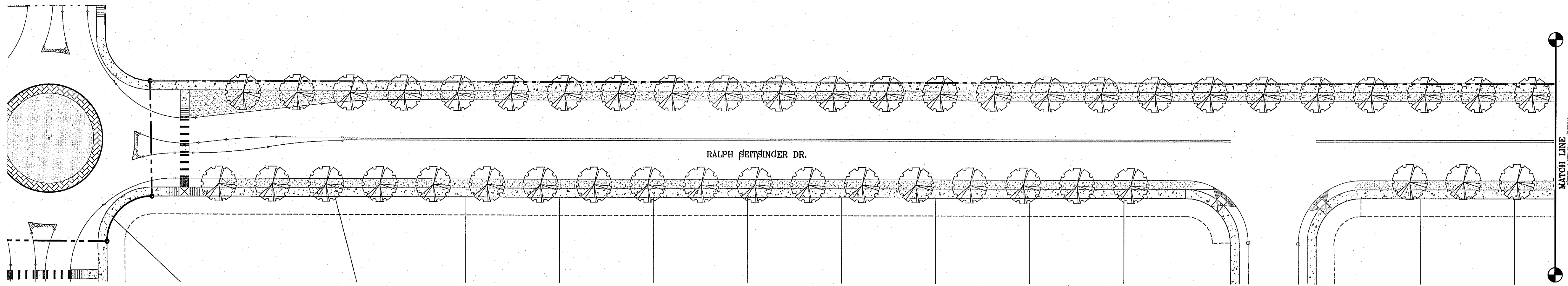


CONDE INC.
 ENGINEERING / PLANNING
 SURVEYING / GPS
 6080 SURVEY DR. STE. 100
 EL PASO, TEXAS 79905
 PHONE: (915) 592-0283
 FAX: (915) 592-0286

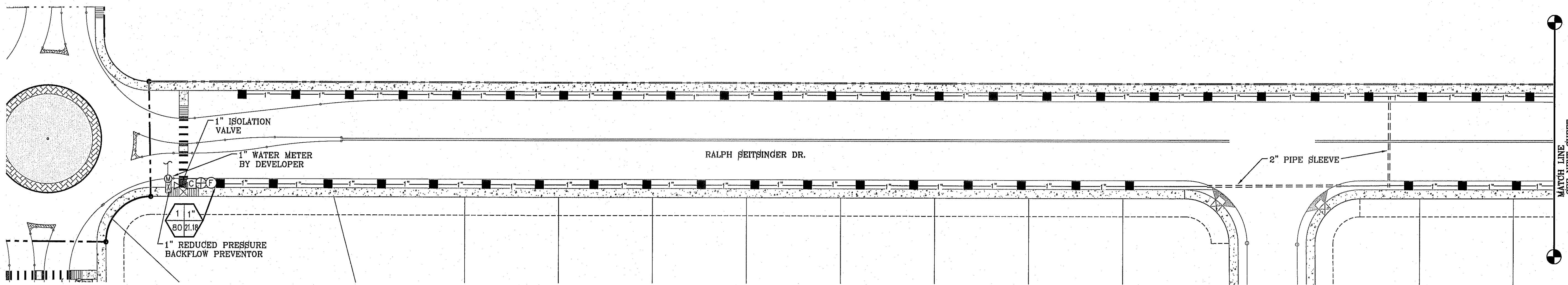
CONDE INC.
 REGISTRATION No. F-2321

SHEET TITLE
PEBBLE HILLS BLVD.
 SHT L6 OF L13

FILE LOCATION S:\LANDSCAPE\TDE 72.DWG RALPH SEITSINGER PLOTTED ON Wednesday, November 19, 2014 11:20:11 AM BY RUBEN RIVERA



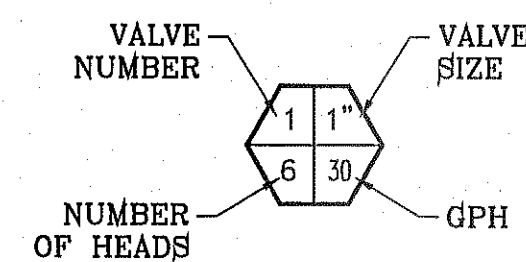
LANDSCAPE PLAN



IRRIGATION PLAN

LEGEND

	BOUNDARY LINE
	PVC CLASS C150 WATER LATERAL (SIZE AS NOTED)
	PVC SLEEVE (TWICE THE SIZE OF PIPE)
	1" WATER METER BY DEVELOPER
	PROPOSED REDUCED PRESSURE BACKFLOW PREVENTOR
	TBO'S CONTROL MODULE
	1" REMOTE CONTROL VALVE-WEATHERMATIC
	XERIBIRD 6 EMMITER
	PIPE SIZE (SIZE AS NOTED)
	STUB OUT WITH CAP FOR FUTURE DRIP
	ISOLATION BRASS BALL VALVE
	AMIAD 1" WYE FILTER & WILKINS 600 SERIES PRESSURE REGULATOR WITH PRESSURE GAUGES BASED STATIC PRESSURE



NOTE:
IRRIGATION IS REGULATED BY THE TEXAS COMMISSION IN 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

COMMON NAME	BOTANICAL NAME	SIZE	QUANTITY	HEIGHT
LIVE OAK	QUERCUS VIRGINIANA	2" GAL.	68	10'
	PADRE CANYON CHAT, 3" DEPTH WITH DeWitt Pro-6 WEED BARRIER FABRIC TO BE PINNED DOWN AT 3' ON CENTER EACH WAY & AT 12" ON CENTER ALONG PERIMETER, OVERLAP MIN. 12" AT SEAMS			

- KEYED NOTES:**
- IRRIGATION TAP POINT VERIFY 55 PSI. NOTIFY OWNER IN WRITING IF ABOVE CRITERIA NOT MET.
 - CONTROLLER LOCATION 110V POWER BY DEVELOPER. COORDINATE EXACT LOCATION IN FIELD.
 - CONTRACTOR REQUIRED TO APPLY FOR AND OBTAIN ALL PERMITS AND PASS ALL INSPECTIONS.

- NOTES:**
- PVC SLEEVES TO BE WRAPPED WITH MINIMUM 4 MIL PLASTIC AND TAPED WITH 3M BRAND HD PLASTIC TAPE
 - QUICK COUPLER VALVES AND ISOLATION VALVES BOX ARE TO BE INSTALLED WITH TAG THAT READS, "NON POTABLE WATER NOT SAFE FOR DRINKING"

SCALE: 1" = 30'



PROJECT NAME
LANDSCAPING FOR PARKWAYS AND MEDIANS TIERRA DEL ESTE UNIT SEVENTY TWO

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

DATE: MARCH 2014
DESIGN BY: RM/RR
INITIATED BY: R.R.
CHECKED BY: R.M.

JOB NO.:

IRRIGATOR'S SEAL

CONDE INC. ENGINEERING / PLANNING SURVEYING / GFS
6030 SURETY DR. STE 100
EL PASO, TEXAS 79905
PHONE: (915) 592-0283
FAX: (915) 592-0286

CONDE INC. REGISTRATION No. P-221

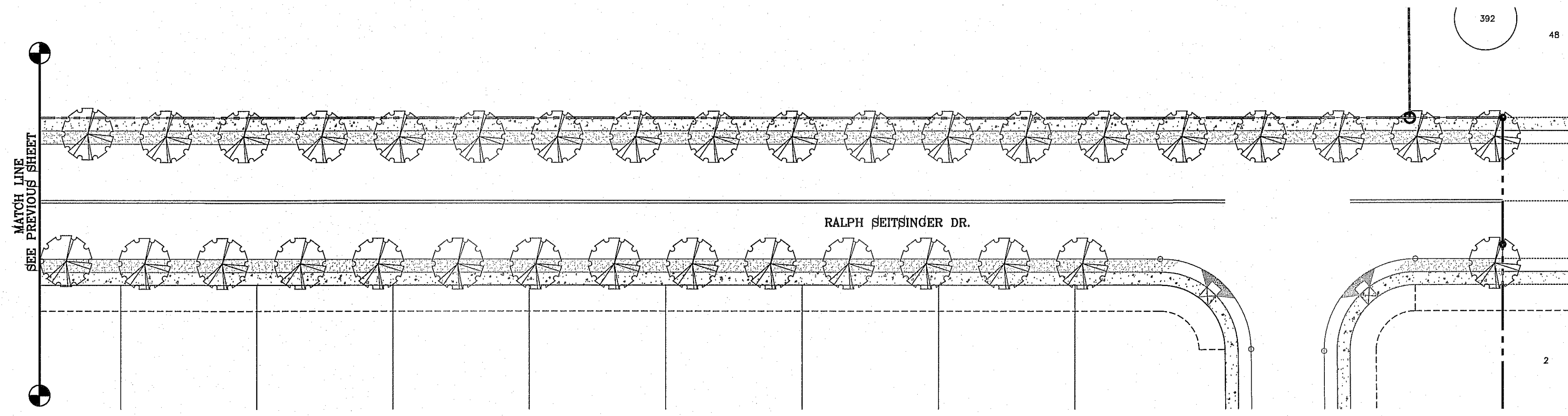
SHEET TITLE
RALPH SEITSINGER DR.

SHT L7 OF L13

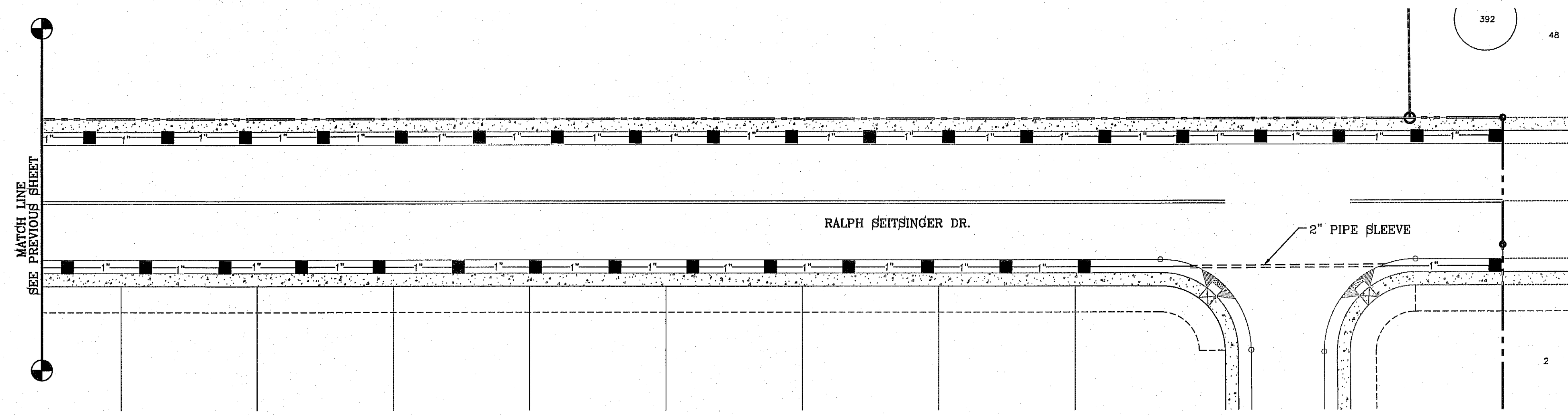
BENCHMARK
CITY MONUMENT AT THE CENTERLINE INTERSECTION OF FESTIVAL DR. AND N. STANTON DR.
ELEVATION = 4368.20CITY DATUM

REVISIONS

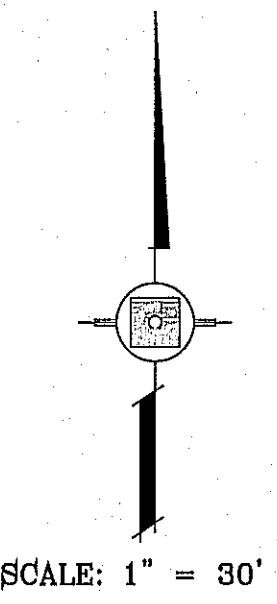
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LANDSCAPE PLAN

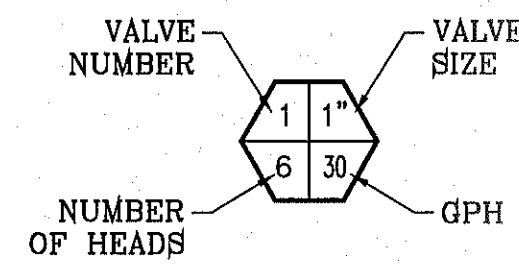


IRRIGATION PLAN

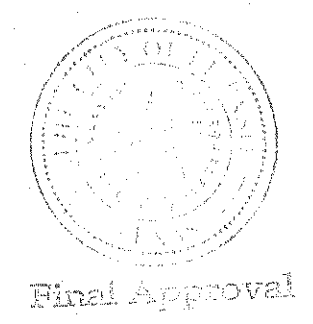


LEGEND

- BOUNDARY LINE
- PVC CLASS C160 WATER LATERAL (SIZE AS NOTED)
- ==== PVC SLEEVE (TWICE THE SIZE OF PIPE)
- ⊙ 1" WATER METER BY DEVELOPER
- ⊞ PROPOSED REDUCED PRESSURE BACKFLOW PREVENTOR
- ⊞ TBO'S CONTROL MODULE
- ⊕ 1" REMOTE CONTROL VALVE-WEATHERMATIC
- XERIBIRD 6 EMMITER
- ⊗ PIPE SIZE (SIZE AS NOTED)
- ⊥ STUB OUT WITH CAP FOR FUTURE DRIP
- ⊗ ISOLATION BRASS BALL VALVE
- ⊕ AMIAD 1" WYE FILTER & WILKINS 600 SERIES PRESSURE REGULATOR WITH PRESSURE GAUGES BASED STATIC PRESSURE



COMMON NAME	BOTANICAL NAME	SIZE	QUANTITY	HEIGHT
LIVE OAK	QUERCUS VIRGINIANA	2" GAL.	68	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				



NOTE:
IRRIGATION IS REGULATED BY THE TEXAS COMMISSION IN 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

KEYED NOTES:

- 1 IRRIGATION TAP POINT VERIFY 65 P.S.I. NOTIFY OWNER IN WRITING IF ABOVE CRITERIA NOT MET.
- 2 CONTROLLER LOCATION 110V POWER BY DEVELOPER. COORDINATE EXACT LOCATION IN FIELD.
- 3 CONTRACTOR REQUIRED TO APPLY FOR AND OBTAIN ALL PERMITS AND PASS ALL INSPECTIONS.

NOTES:
1. PVC SLEEVES TO BE WRAPPED WITH MINIMUM 4 MIL PLASTIC AND TAPED WITH 3M BRAND HD PLASTIC TAPE
2. QUICK COUPLER VALVES AND ISOLATION VALVES BOX ARE TO BE INSTALLED WITH TAG THAT READS, "NON POTABLE WATER NOT SAFE FOR DRINKING"

PROJECT NAME: **LANDSCAPING FOR PARKWAYS AND MEDIANS TIERRA DEL ESTE UNIT SEVENTY TWO**

SCALE: HORIZ: 1" = 30' VERT: 1" = 10' DATE: MARCH 2014 DESIGN BY: RM/RR INITIATED BY: R.R. CHECKED BY: R.M. JOB NO.:

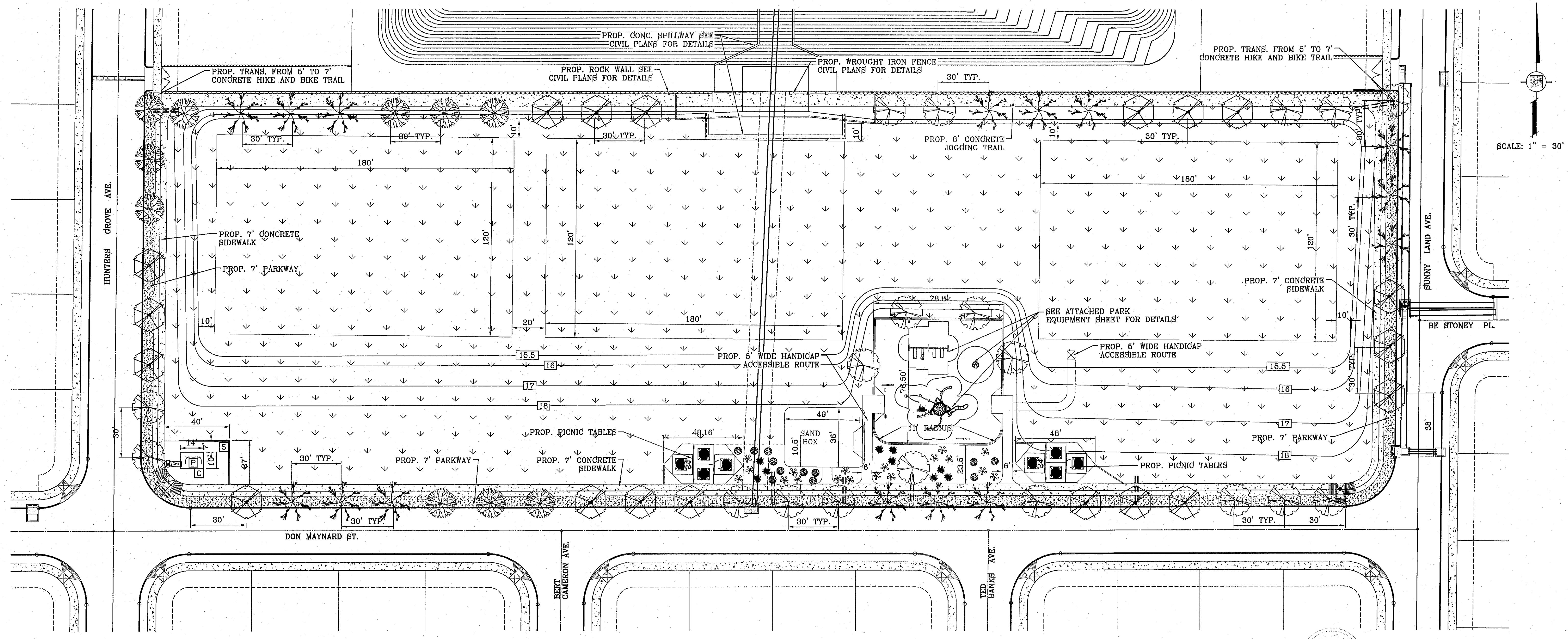
CONDE INC. ENGINEERING / PLANNING SURVEYING / GPS 6080 SURVEY DR. STE 100 EL PASO, TEXAS 79905 PHONE: (915) 592-0283 FAX: (915) 592-0266

CONDE INC. REGISTRATION No. F-231

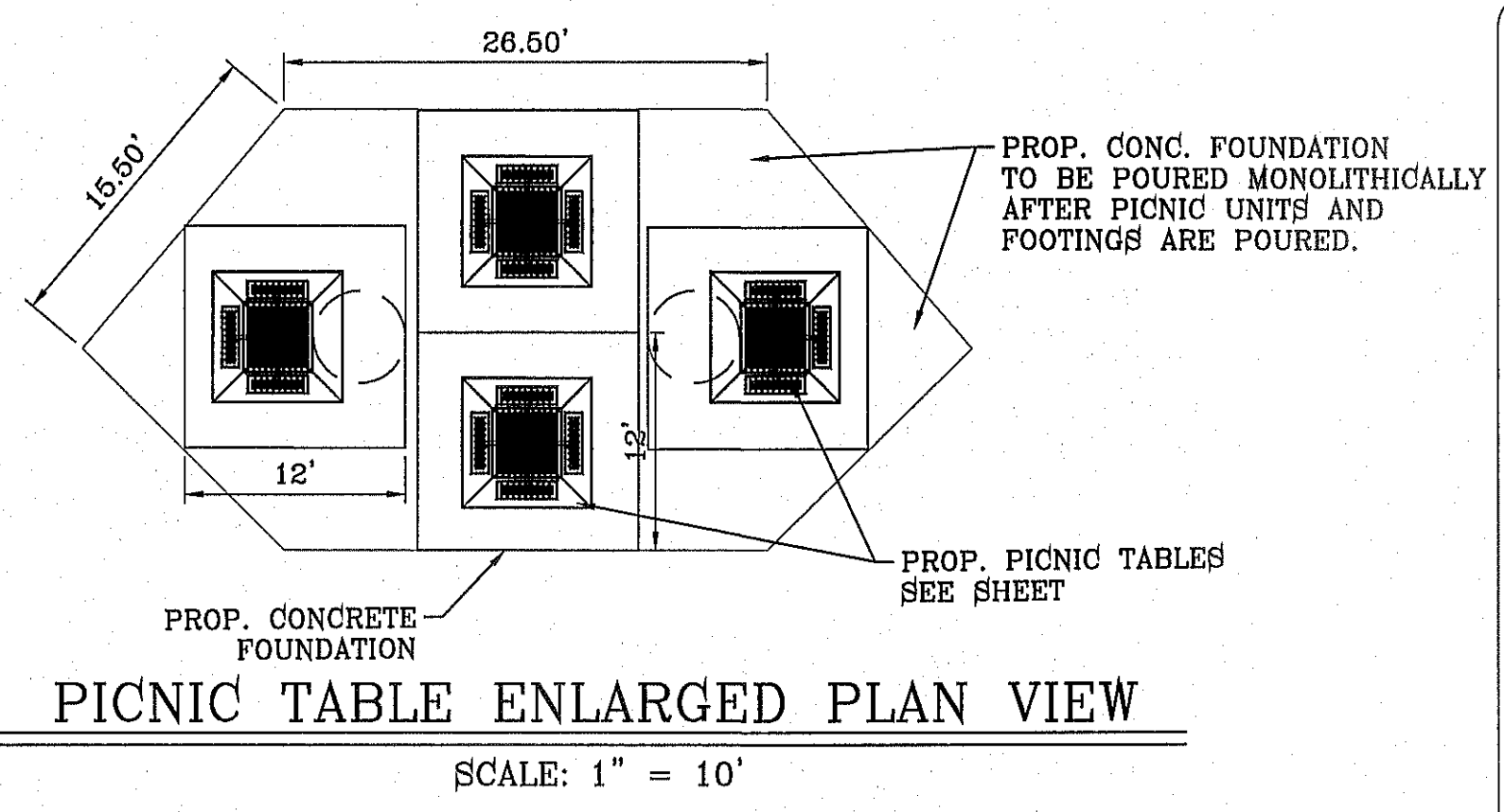
SHEET TITLE: **RALPH SEITSINGER DR.**

SHT **L8** OF L13

FILE LOCATION S:\LANDSCAPE\TDE 72\DWG\PARK PLOTTED ON Wednesday, November 19, 2014 1:07:10 PM BY RUBEN RIVERA



SCALE: 1" = 30'



REGISTRATION NUMBER (PLD#):
EABPRJ06902781

COMMON NAME	BOTANICAL NAME	SIZE	QUANTITY	HEIGHT
GAMBEL'S OAK	QUERCUS GAMBELI	2" CAL.	18	10'
MEXICAN PLUM	PRUNUS MEXICANA	2" CAL.	19	10'
ARIZONA ASH CLASSIC SHADE SHAPE	FRAXINUS VELUTINA	2" CAL.	10	10'
RAYWOOD ASH Q TIPPED SHAPE	FRAXINUS ANGUSTIFOLIA	2" CAL.	15	10'
RED YUCCA	HESPERALOE PARVIFLORA	5 GAL.	9	2'
PURPLE SAGE	LEUCOPHYLLUM FRUTESCENS	5 GAL.	12	2'
AUTUMN SAGE	QUERCUS FUSIFORMIS	6 GAL.	18	3'
CONCRETE SIDEWALK (16,192 SQ. FT.)				
HYBRID BERMUDA "SANTA ANA" SOD (156,638 s.f.)				
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 (8575 SQ. FT)				

PARKS DEPARTMENT
REVIEWED BY *Carolina de la...* 12/02/2014

THIS DESIGN COMPLIES WITH THE CITY OF EL PASO APPROVED PARK DESIGN STANDARDS ADOPTED JANUARY 8, 2013

NOTE:
IRRIGATION IS REGULATED BY THE TEXAS COMMISSION IN 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

HEAD SPACING: 46'
ROW SPACING: 39.76'

KEYED NOTES:

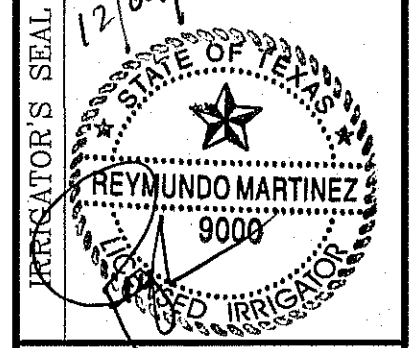
- IRRIGATION TAP POINT VERIFY 80 PSI. NOTIFY OWNER IN WRITING IF ABOVE CRITERIA NOT MET.
- CONTROLLER LOCATION 110V POWER BY DEVELOPER. COORDINATE EXACT LOCATION IN FIELD.
- CONTRACTOR REQUIRED TO APPLY FOR AND OBTAIN ALL PERMITS AND PASS ALL INSPECTIONS.

NOTES:
1. PVD SLEEVES TO BE WRAPPED WITH MINIMUM 4 MIL PLASTIC AND TAPED WITH 3M BRAND HD PLASTIC TAPE
2. QUICK COUPLER VALVES AND ISOLATION VALVES BOX ARE TO BE INSTALLED WITH TAG THAT READS, "NON POTABLE WATER NOT SAFE FOR DRINKING"

BENCHMARK	CITY MONUMENT AT THE CENTERLINE INTERSECTION OF FESTIVAL DR. AND N. STANTON DR. ELEVATION = 4966.20 CITY DATUM
DATE	
REVISIONS	
BY	

PROJECT NAME
**14743 HUNTERS GROVE AVE.
TIERRA DEL SOL PARK
TIERRA DEL ESTE UNIT SEVENTY TWO**
BEING ALL OF LOT 34, BLOCK 430
TIERRA DEL ESTE UNIT 72 SUBDIVISION
CITY OF EL PASO, COUNTY OF EL PASO, TEXAS
CONTAINING: 4.079 ACRES

SCALE AS SHOWN
DATE: MARCH 2014
DESIGN BY: RM/RR
INITIATED BY: R.R.
CHECKED BY: R.M.
JOB NO.:

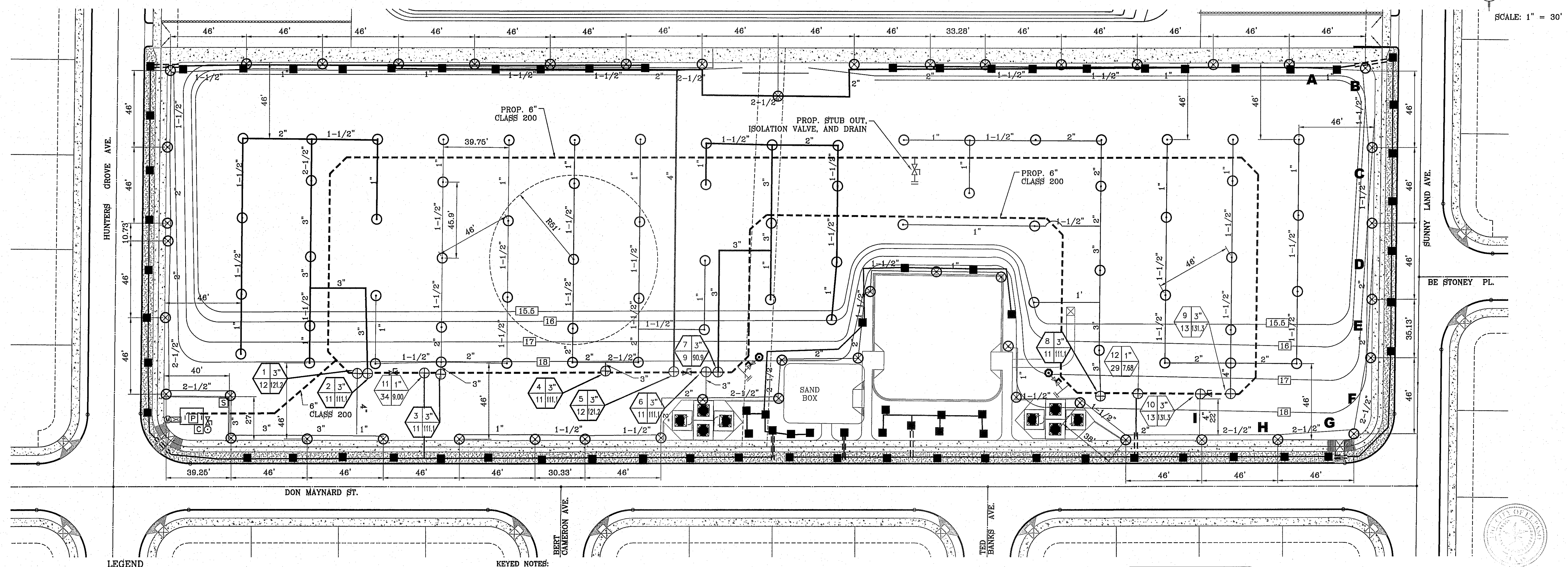


CONDE INC.
ENGINEERING / PLANNING
SURVEYING / GPS
6080 SUBEY DR. STE 100
EL PASO, TEXAS 79905
PHONE: (915) 692-0283
FAX: (915) 692-0286



SHEET TITLE
LANDSCAPE PLAN
SHT L9 OF L13

FILE LOCATION S:\LANDSCAPE\72 DWG\PARK PLOTTED ON Wednesday, November 19, 2014 1:07:20 PM BY RUBEN RIVERA



SCALE: 1" = 30'

BENCHMARK
CITY MONUMENT AT THE CENTERLINE INTERSECTION OF
FESTIVAL DR. AND N. STANTON DR.
ELEVATION = 4366.20 CITY DATUM

PROJECT NAME
**14743 HUNTERS GROVE AVE.
TIERRA DEL SOL PARK
TIERRA DEL ESTE UNIT SEVENTY TWO**
BEING ALL OF LOT 34 BLOCK 450
TIERRA DEL SOL SUBDIVISION
CITY OF EL PASO, TEXAS
CONTAINING: 4.075 ACRES

DESIGNER'S SEAL
REYUNDO MARTINEZ
9000
CITY OF EL PASO, TEXAS

CONDE INC.
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SURVEYING / GPS
6080 SURETY DR. STE 100
EL PASO, TEXAS 79905
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CONDE INC.
REGISTRATION NO. F-2321
SHEET TITLE

IRRIGATION PLAN

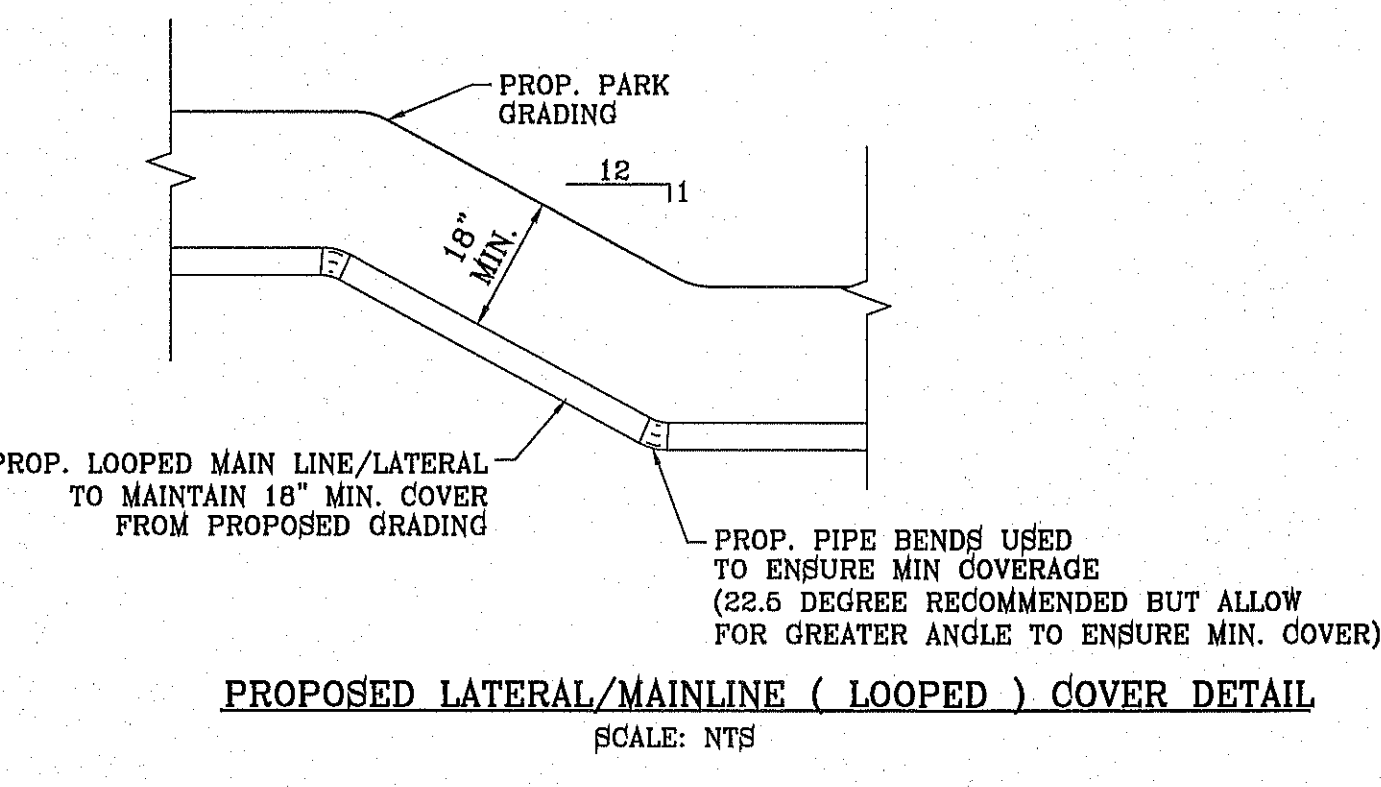
SHT L10 OF L13

LEGEND

- LOT LINE
- STREET CENTERLINE
- 6" PVC C160 200 PSI MAIN WATER LINE
- 4" PVC SCHEDULE 40 LOOPED WATER MAIN
- TYPE K 3" COPPER WATER TUBE
- 6" CLASS 200 IPS PLASTIC PIPE WATER LATERAL (SIZE AS NOTED)
- PVC SLEEVE TO EXTEND 24" FROM EDGES (TWICE THE SIZE OF PIPE)
- ⊙ 4" WATER METER BY DEVELOPER 375 GPM
FEBCO LP860 2.5" RPPA W/ ENCLOSURE
- ⊕ RAIN SENSOR
STATION CONTROLLER
- ⊕ BERKELEY PUMP-b2trms (Coupling Drive) B2-1/2TRMS
. 242.4 GPM, 43.827 FT. HD., W/ TUFF SHED ENCLOSURE
- ⊕ WEATHERMATIC 8200 SERIES BRONZE, PRESSURE REGULATOR
TWO GAUGES AND WYE FILTER IN SEPERATE BOXES
- ⊙ HUNTER 1-25 ADJUSTABLE STAINLESS STEEL RISER ROTOR
NOZZLE #10 LIGHT GREEN @ 50 psi
RADIUS: 51' FLOW: 10.1 GPM
- ⊙ HUNTER 1-25 ADJUSTABLE (ADJUSTED) STAINLESS STEEL RISER ROTOR
NOZZLE #10 LIGHT GREEN @ 50 psi
RADIUS: 51' FLOW: 10.1 GPM
- XERIBIRD 8 EMMITTER
- 1-1/2" PIPE SIZE (SIZE AS NOTED)
- STUB OUT WITH VALVE (HOT LEAD COLOR GREEN) WIRES FOR FUTURE DRIP (BLACK, BLUE, & COLOR ORANGE)
- ⊕ ISOLATION BRASS BALL VALVE TO BE IN VALVE BOX
- ⊕ AMIAD 1" WYE FILTER & WILKINS 800 SERIES PRESSURE REGULATOR
- ⊕ BUCKNER DOUBLE LUG 1" QUICK COUPLER PURPLE BOLT CAP W/ BRASS STABILIZER IN VALVE BOX WITH PURPLE LID.

NOTES:
1. PVC SLEEVES TO BE WRAPPED WITH MINIMUM 4 MIL PLASTIC AND TAPED WITH 3M BRAND HD PLASTIC TAPE
2. QUICK COUPLER VALVES AND ISOLATION VALVES BOX ARE TO BE INSTALLED WITH TAG THAT READS, "NON POTABLE WATER NOT SAFE FOR DRINKING"

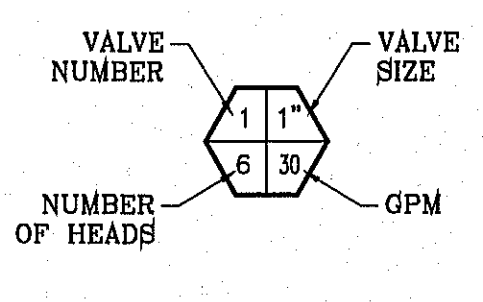
PRECIPITATION RATE
PR = $\frac{GPM \times 96.3}{HEAD \ SPACING' \times 0.866}$
PR = $\frac{10.1 \times 96.25}{46' \times 0.866} = 0.53 \text{ IN./HR.}$
PR = $\frac{10.1 \times 96.25}{46' \times 0.433} = 1.06 \text{ IN./HR.}$



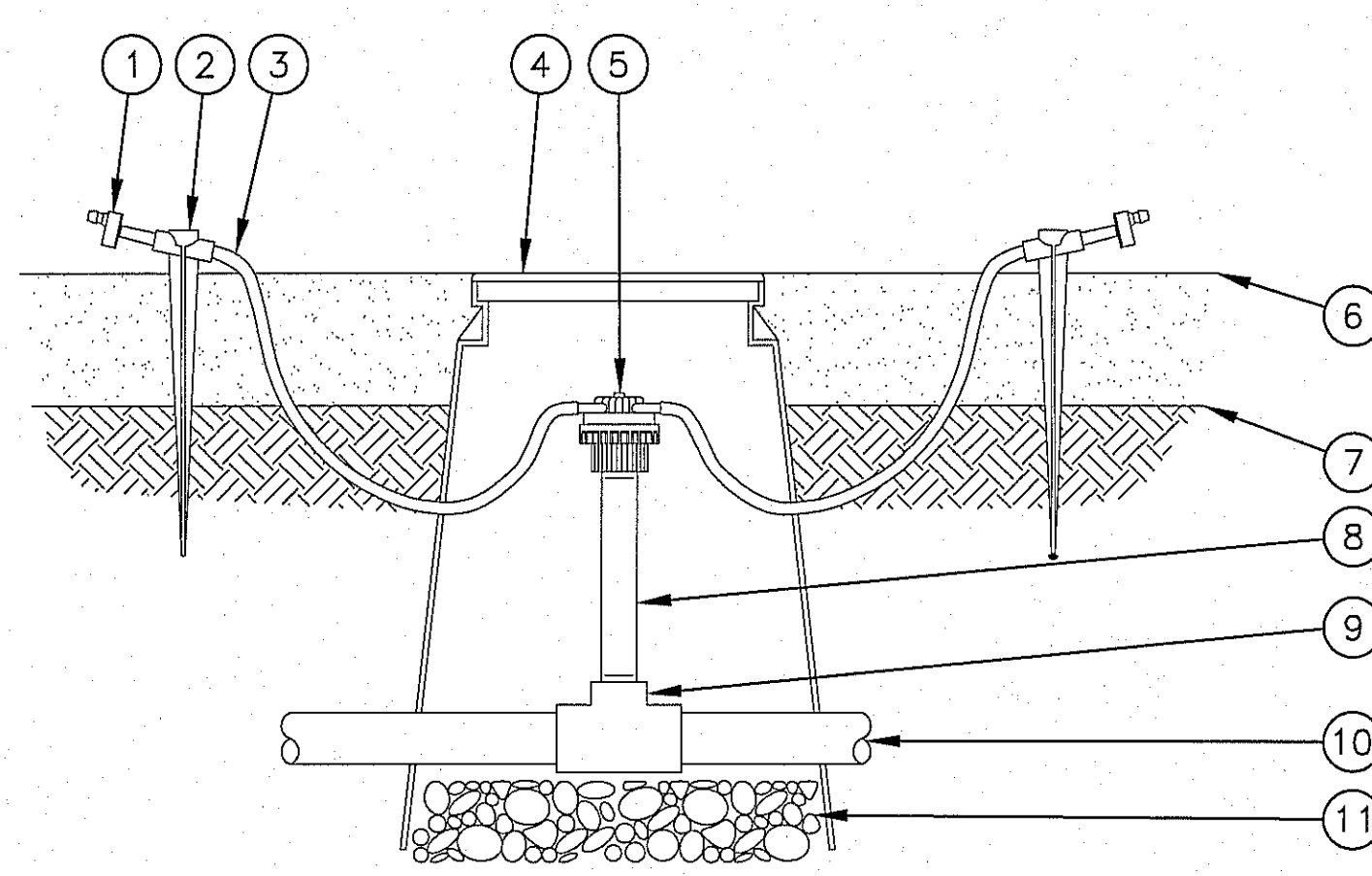
REGISTRATION NUMBER (PLD):
EABPRJB6802761

KEYED NOTES:

- ① IRRIGATION TAP POINT VERIFY 66 PSI. NOTIFY OWNER IN WRITING IF ABOVE CRITERIA NOT MET.
- ② CONTROLLER LOCATION 110V POWER BY DEVELOPER. COORDINATE EXACT LOCATION IN FIELD.
- ③ CONTRACTOR REQUIRED TO APPLY FOR AND OBTAIN ALL PERMITS AND PASS ALL INSPECTIONS.



FILE LOCATION S:\LANDSCAPE\DE 72\DWG\DETAILS PLOTTED ON Wednesday, November 19, 2014 11:55:50 AM BY RUBEN RIVERA

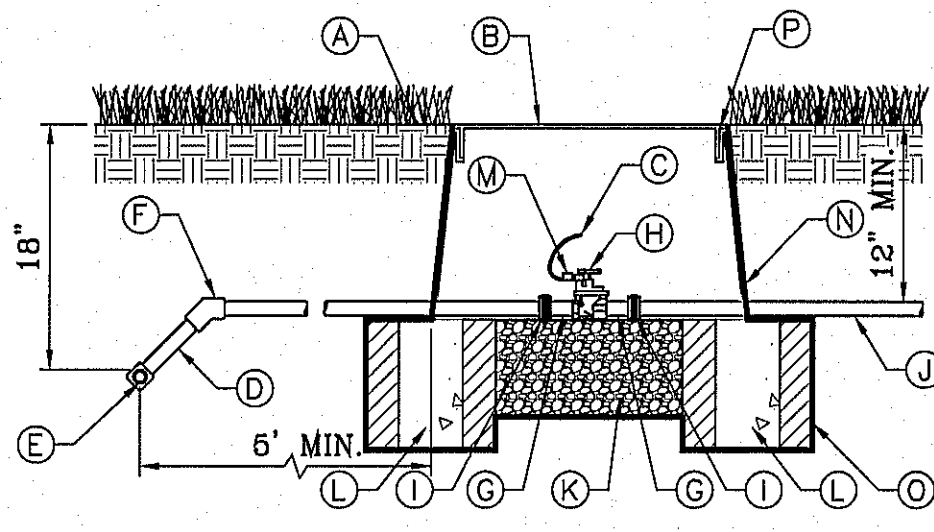


- ① SINGLE-OUTLET BARB INLET X BARB OUTLET EMITTER: RAIN BIRD XERI-BUG OR PC MODULE EMITTER: (1 OF 2 SHOWN, 6 POSSIBLE)
- ② UNIVERSAL 1/4" TUBING STAKE: RAIN BIRD TS-025 (1 OF 2 SHOWN, 6 POSSIBLE)
- ③ 1/4" DISTRIBUTION TUBING: RAIN BIRD XQ TUBING (LENGTH AS REQUIRED) (1 OF 2 SHOWN, 6 POSSIBLE)
- ④ SUBTERRANEAN EMITTER BOX: RAIN BIRD SEB 7XB
- ⑤ SIX OUTLET MANIFOLD: RAIN BIRD EMT-6XERI
- ⑥ TOP OF MULCH
- ⑦ FINISH GRADE
- ⑧ PVC SCH 80 NIPPLE (LENGTH AS REQUIRED)
- ⑨ PVC SCH 40 TEE OR ELL
- ⑩ PVC LATERAL PIPE
- ⑪ 3" MINIMUM DEPTH OF 3/4" WASHED GRAVEL

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-6XERI:

RAIN BIRD XERI-BUG BARB X BARB EMITTERS:		
XB-05PC 0.5 GPH	XB-10PC 1.0 GPH	XB-20PC 2.0 GPH
RAIN BIRD PC MODULE BARB X BARB EMITTERS:		
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"

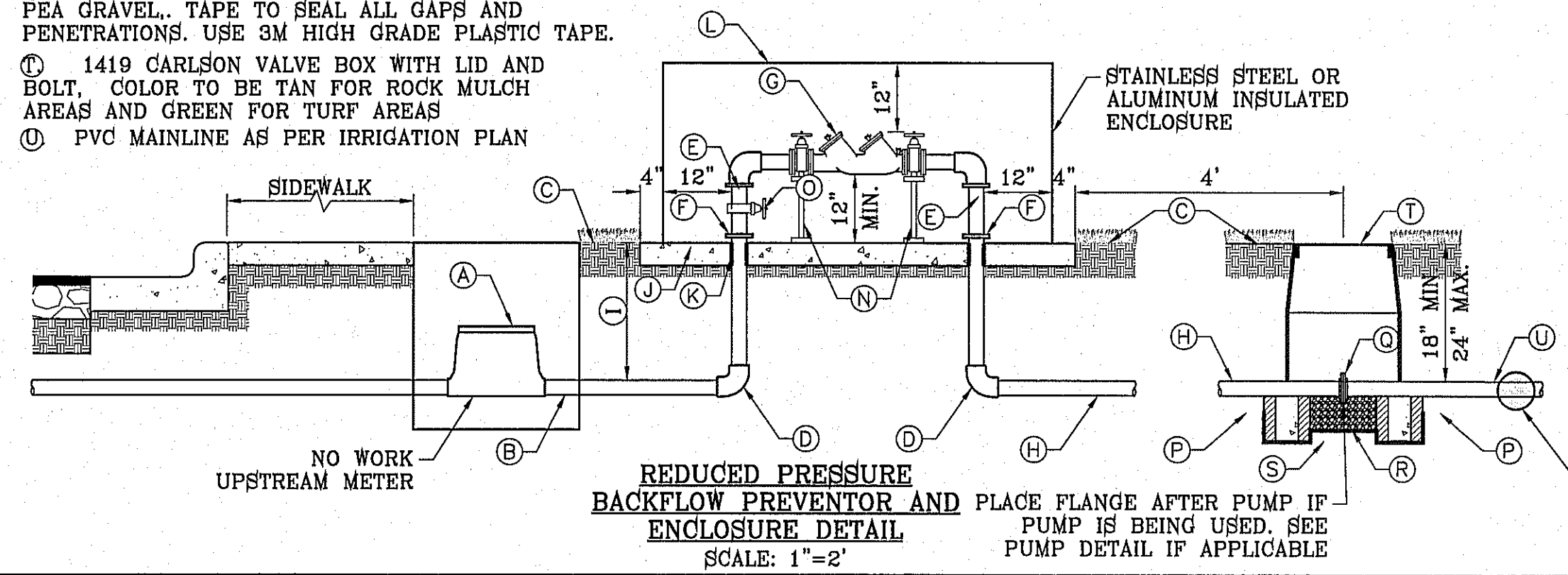


ELECTRIC CONTROL VALVE
SCALE: 1"=1"

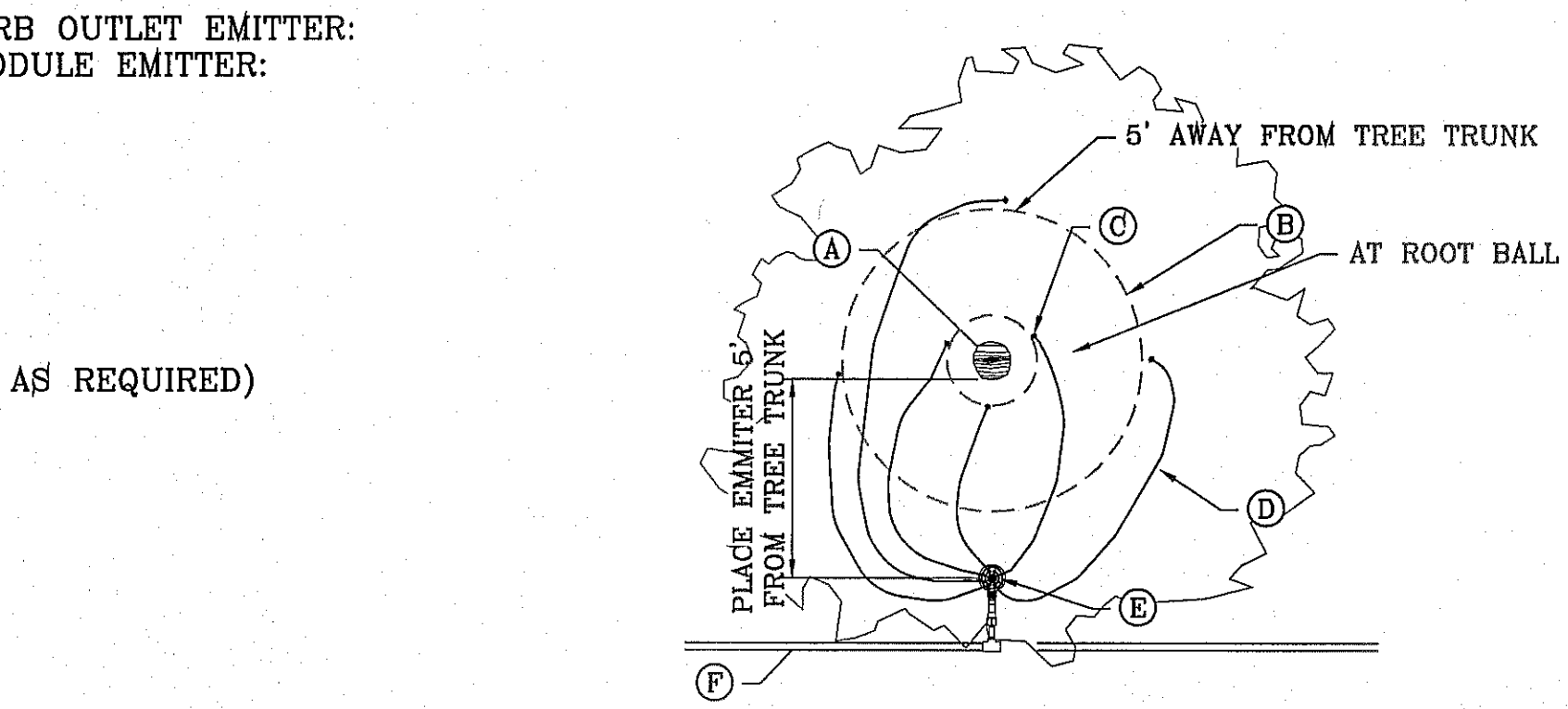
- Ⓐ PROPOSED METER SERVICE LINE, NO OUTLETS ALLOWED.
- Ⓑ COPPER
- Ⓒ FINISH GRADE
- Ⓓ TYPE K COPPER ELL
- Ⓔ TYPE K COPPER NIPPLE
- Ⓕ BRASS UNION, 4" ABOVE GRADE, MIN.
- Ⓖ BACKFLOW PREVENTOR DEVICE (SEE PLAN)
- Ⓗ HEIGHT 12" MIN, MAX 30"
- Ⓘ COPPER MAINLINE
- Ⓚ 28" MINIMUM DEPTH
- Ⓛ 3000 PSI CONCRETE PAD, 4" DEPTH, EXTEND 4" BEYOND EDGE OF ENCLOSURE
- Ⓜ PIPE SHALL BE SLEEVED THROUGH CONCRETE PAD WITH SEALED SHC 40 PVC.
- Ⓨ BACKFLOW ENCLOSURE TO BE ASSE 1060 CERTIFIED CLASS I.
- Ⓩ NOT USED.
- ⓐ STEEL SUPPORT BRACKETS BOLTED TO CONCRETE PAD
- ⓑ BRASS ISOLATION VALVE.
- ⓓ BRICK BLOCK AT EACH CORNER FLANGE
- ⓔ 3/8" PEA GRAVEL, 4" DEEP (NO SOIL IN BOX) SET IN CARLSON VALVE BOX
- ⓕ WEED CLOTH ALL AROUND BOX PIPE AND UNDER PEA GRAVEL. TAPE TO SEAL ALL GAPS AND PENETRATIONS. USE 3M HIGH GRADE PLASTIC TAPE.
- ⓖ 1419 CARLSON VALVE BOX WITH LID AND BOLT. COLOR TO BE TAN FOR ROCK MULCH AREAS AND GREEN FOR TURF AREAS
- ⓗ PVC MAINLINE AS PER IRRIGATION PLAN

- GENERAL NOTES:**
- ENCLOSURE MUST COMPLY WITH ASSE#1060 FOR BACKFLOW DEVICE.
 - DO NOT INSTALL IN FLOOD PRONE AREAS.
 - METAL RISER PIPING REQUIRED.
 - JOINTS TO BE ADEQUATELY RESTRAINED.
 - HORIZONTAL INSTALLATION REQUIRED AS SHOWN.
 - RPP SHALL BE SUPPORTED AT ALL TIMES DURING AND AFTER INSTALLATION. PIPES ARE NOT TO BARE WEIGHT OF RP DEVICE. BACKFLOW PREVENTION DEVICE SHALL BE PROPERLY SUPPORTED BY BRACKETS AND NOT COPPER RISERS OR COPPER RISERS WILL BE REPLACED.

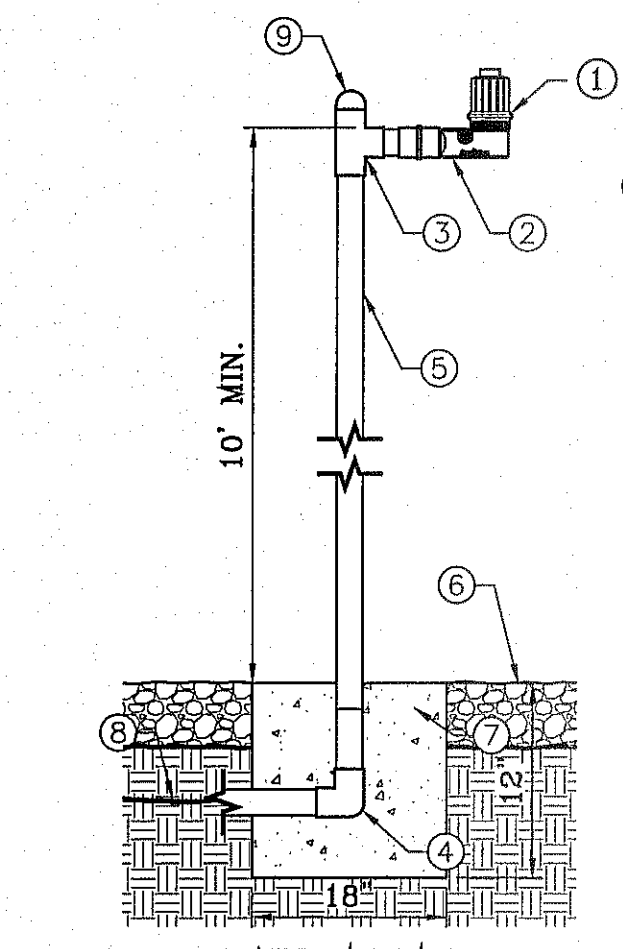
- ELECTRICAL NOTES:**
- CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING, COORDINATING, AND INSTALLING ALL ELECTRICAL AND ELECTRICAL SUPPLIES NECESSARY FOR THE INSTALLATION AND OPERATION OF THE IRRIGATION SYSTEM SPECIFIED.
- ALL ELECTRICAL SHALL BE IN COMPLIANCE WITH ALL APPLICABLE CODES, ORDINANCES AND REQUIREMENTS OF ALL GOVERNING BODIES HAVING JURISDICTION.



REDUCED PRESSURE BACKFLOW PREVENTOR AND ENCLOSURE DETAIL
SCALE: 1"=2"

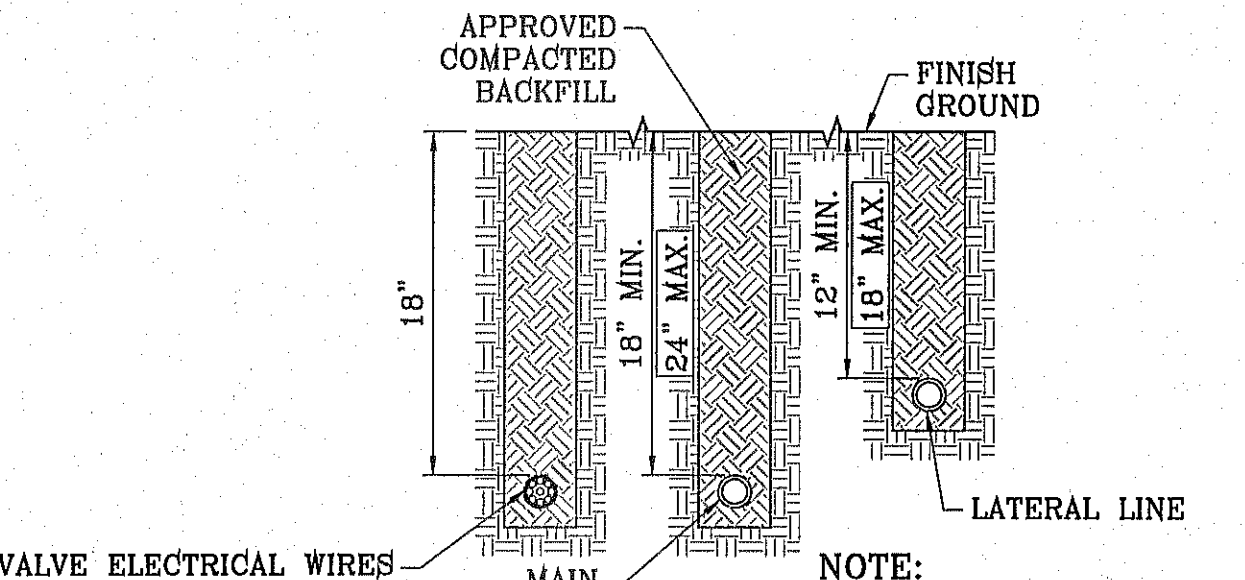


EMITTER PLACEMENT
SCALE: 1"=6"



RAIN SENSOR RSD-CEX POLE MOUNT 1/8" SETTING
SCALE: 1"=1"

- ① RAIN SENSOR: RAIN BIRD RSD-CEX
- ② FEMALE ADAPTER (SLIP X FIPT)
- ③ GALVANIZED TEE BEND
- ④ GALVANIZED 90° BEND
- ⑤ 2 1/2-INCH SCHEDULE 40 GALVANIZED PIPE
- ⑥ FINISHED GRADE
- ⑦ 12"x18" CONCRETE BASE
- ⑧ WIRE TO IRRIGATION CONTROLLER
- ⑨ GALVANIZED STEEL CAP TO BE SECURED IN PLACE
- ⑩ MINIMUM 7' AWAY FROM ANY STRUCTURE



TRENCH DETAIL
SCALE: 1"=1"

BACKFLOW ENCLOSURE GENERAL NOTES:

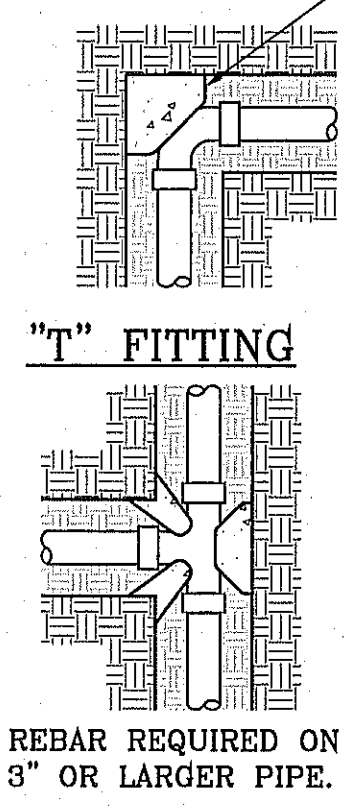
ASSE STANDARD #1060 (ISSUED MARCH 13, 2006) PERFORMANCE REQUIREMENTS FOR OUTDOOR ENCLOSURES FOR BACKFLOW PREVENTION ASSEMBLIES

SECTION 3.1.1: ENCLOSURES SHALL CONTAIN A HEAT SOURCE CAPABLE OF MAINTAINING 4°C (40°F) INSIDE THE ENCLOSURE WHEN SUBJECTED TO 34°C (-34°F) OUTSIDE AIR TEMPERATURE.

SECTION 3.2.1: ENCLOSURES shall be designed to support a minimum vertical load of 100 lb/sf.

SECTION 3.3.1: depth of water within the enclosure shall not exceed 6 inches during full flow of the back flow preventer relief discharge.

SECTION 3.5.2: Enclosure shall be designed to be accessed and provide sufficient room for testing and maintenance...drawings shall be submitted by the manufacturer.

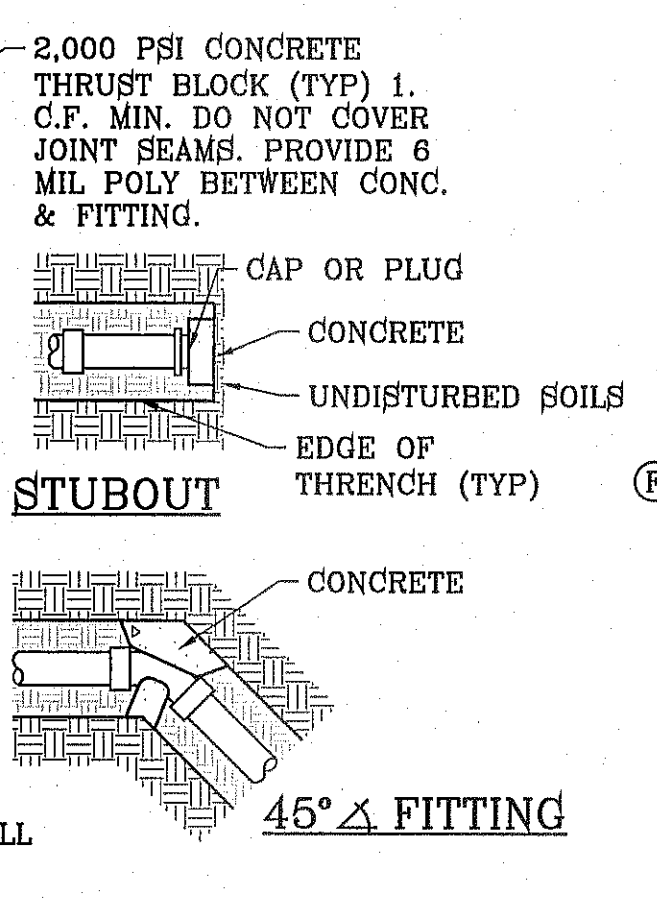


THRUST BLOCKING DETAIL
SCALE: 1"=1"

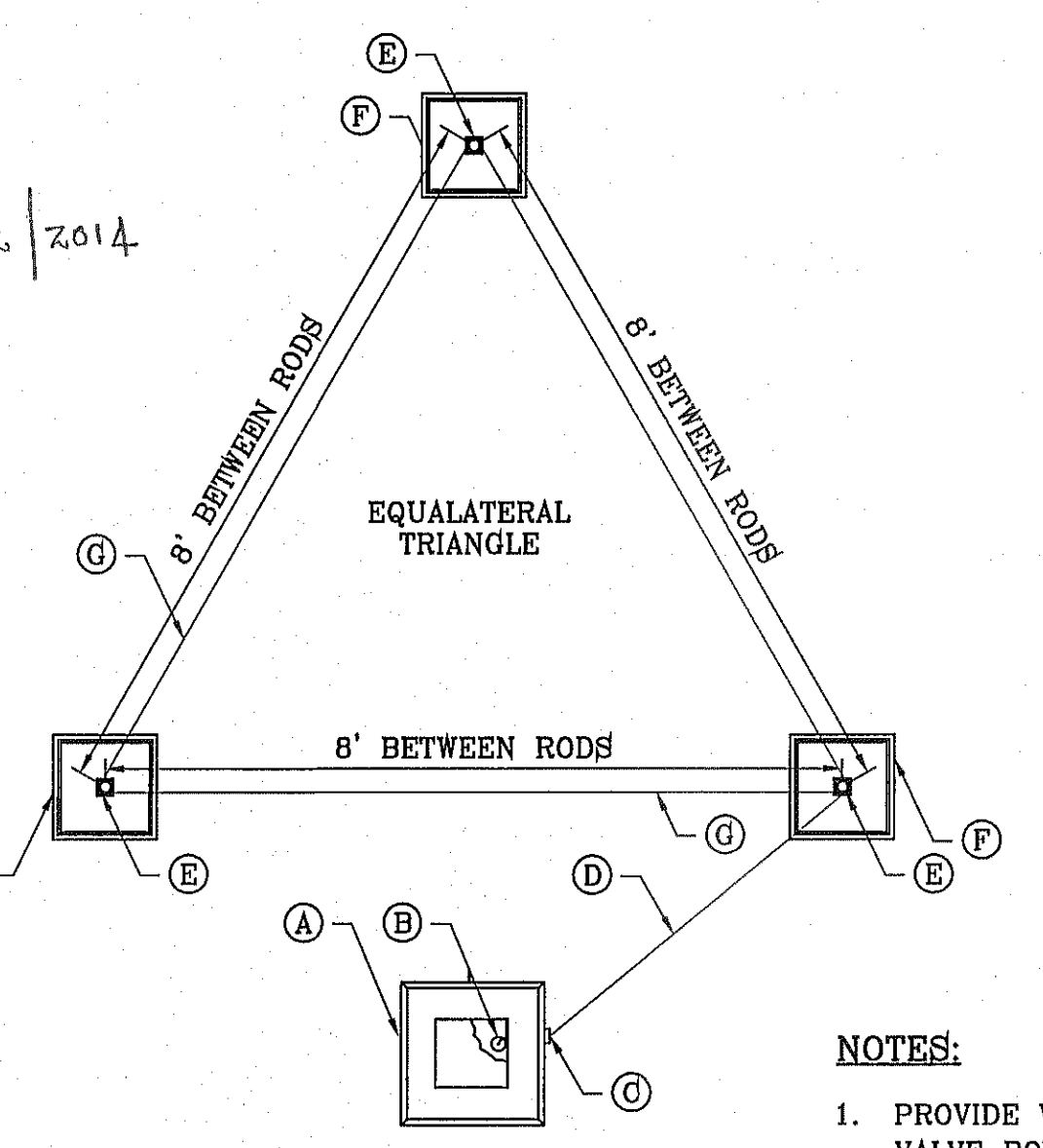
- ① INSTALL IN NEMA2 APPROVED METAL ENCLOSURE TO HOUSE IRRIGATION SYSTEM CONTROLLER.
- ② RAIN BIRD ESP-SAT WALL MOUNT (METAL/PLASTIC) FIELD SATELLITE CONTROLLER
- ③ ESP-SAT TWO-WIRE MAXICOM INTERFACE BOARD (MIB)
- ④ WIRE TERMINAL CONNECTORS TO REMOTE CONTROL VALVES USE ESP-MC QUICK CONNECT TERMINAL STRIP. 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)
- ⑤ PLACE A QUICK DISCONNECT IN THIS GENERAL LOCATION SEPERATE FROM THE ONE ON THE CONTROLLER AND MOUNTED WITHIN METAL PEDESTAL ENCLOSURE.
- ⑥ COMMON WIRE (BLACK) FROM MSP-1 SURGE ARRESTOR TO MAXICOM INTERFACE BOARD (MIB)
- ⑦ ALL GROUND WIRES (GREEN) TO GROUNDING BUSS BAR
- ⑧ #10 COPPER GROUND WIRE FROM ESP FIELD SATELLITE CONTROLLER GROUNDING BUSS BAR TO GROUNDING GRID (SEE GROUNDING GRID MAXICOM DETAIL 305)
- ⑨ HOT WIRE (RED) FROM MSP-1 SURGE ARRESTOR TO MAXICOM INTERFACE BOARD (MIB)
- ⑩ GROUNDING BUSS BAR IN CABINET SEPERATE OF CONTROLLER
- ⑪ 120 VOLT POWER SUPPLY W/ G.F.C.I. PROTECTION
- ⑫ REFER TO LOCAL ELECTRIC CODE FOR CONNECTIONS
- ⑬ RAIN BIRD MSP-1 RECOMMENDED SURGE ARRESTOR TO BE INSTALLED IN SEPERATE JUNCTION BOX WITH COVER
- ⑭ POWER ON/OFF TOGGLE SWITCH
- ⑮ PUMP START RELAY
- ⑯ RAIN BIRD WARRANTY REQUIRES PROPER SURGE PROTECTION IN A METAL BOX WITH LID. USE INTERMATIC AG2401 OR TRIPPLITE ISOBAR.
- ⑰ N/A
- ⑱ 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. SURGE ARRESTOR TO BE INSTALLED IN A SEPERATE JUNCTION BOX WITH COVER
- ⑲ COMMON WIRE/MASTER VALVE WIRE
- ⑳ ELECTRICAL POWER CONDUIT FOR 120 VOLT POWER TO BE BURIED AT 36" DEPTH FROM FINISH GROUND TO TOP OF PIPE AND EXTENDED TO DUPLEX OUTLET J-BOX WITH LABELS AND PERMANENT TAGS. SEE TRENCH DETAIL.

PARKS DEPARTMENT

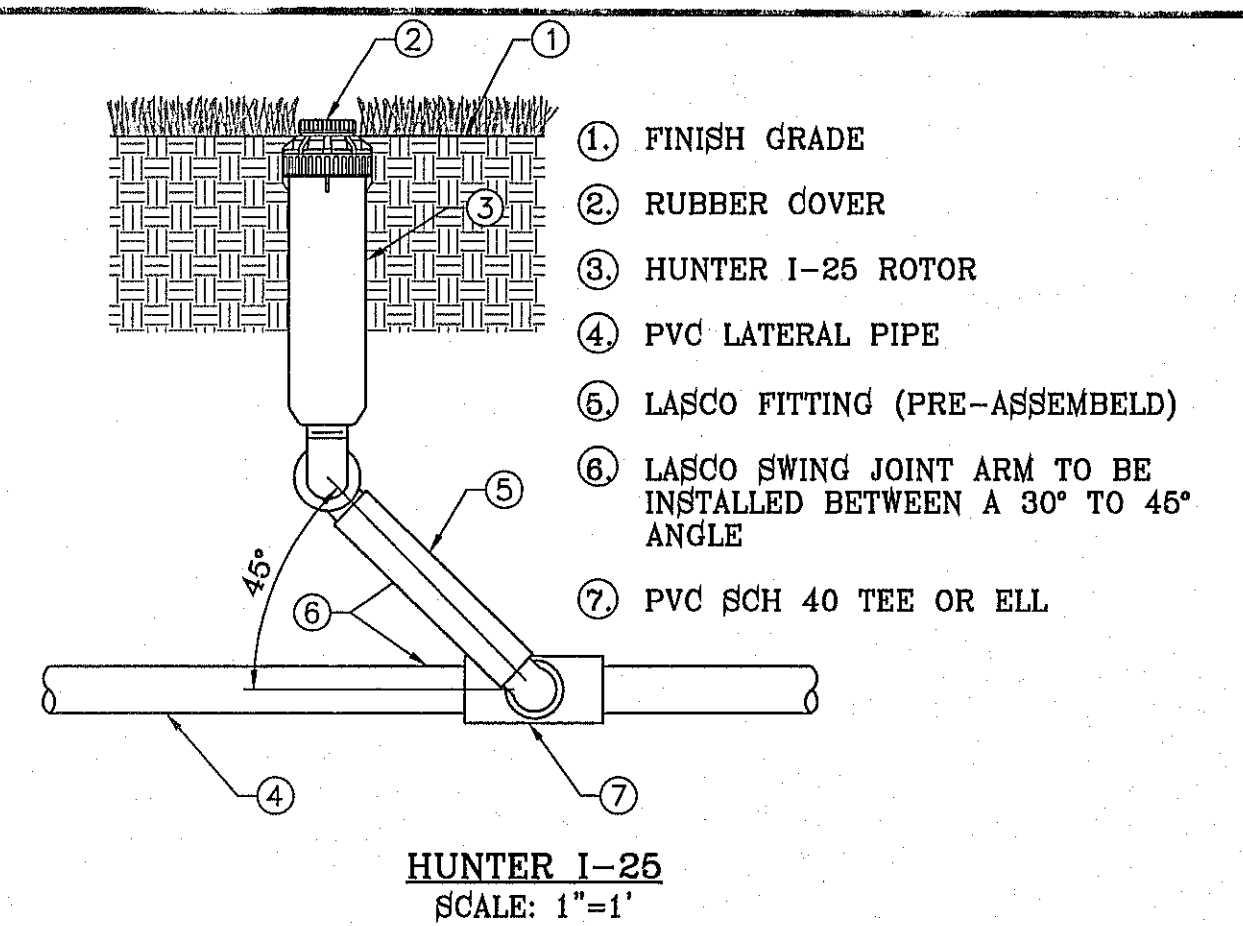
REVIEWED BY *Anthony del...* 12/02/2014



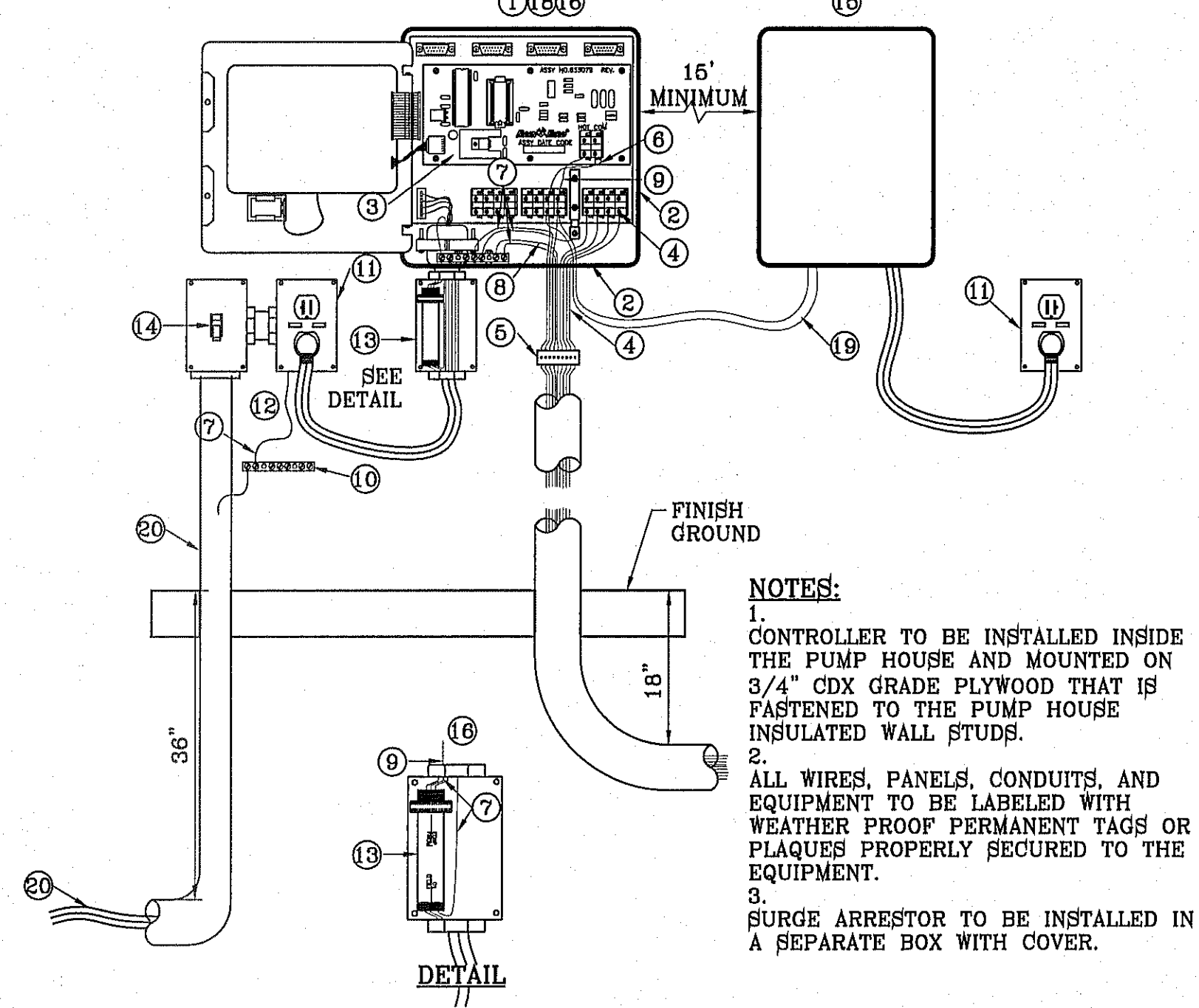
T FITTING STUBOUT
SCALE: 1"=1"



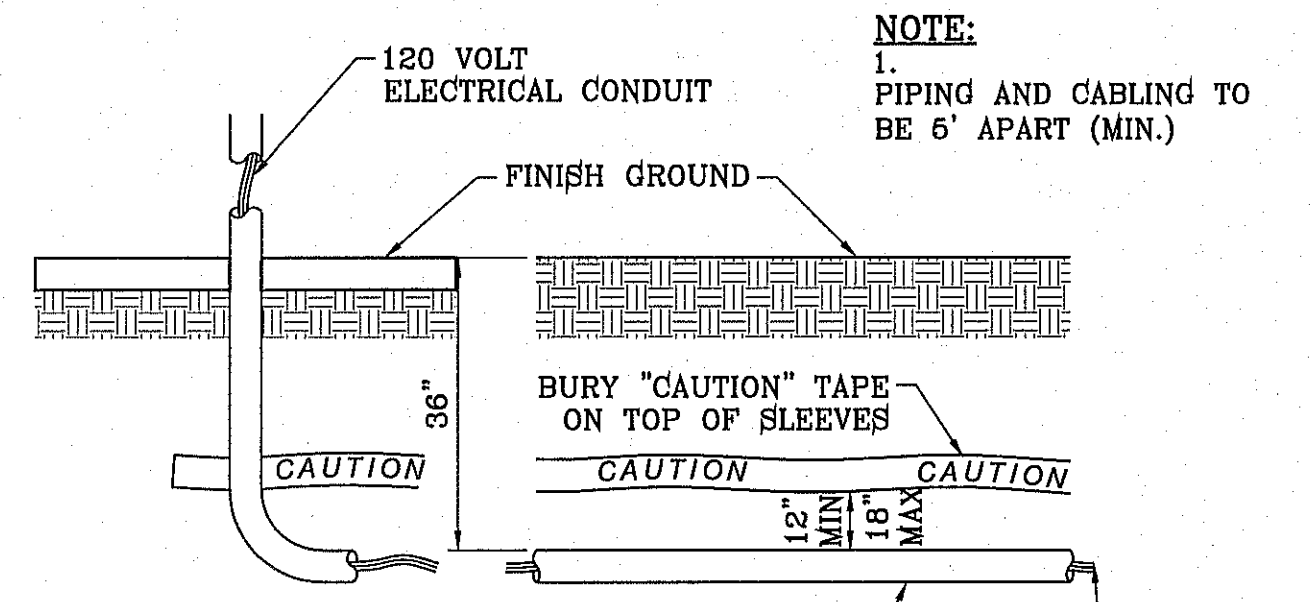
TRIANGULAR GROUNDING GRID DETAIL
SCALE: 1"=2"



HUNTER I-25
SCALE: 1"=1"



ESP-XXMC INSTALLATION DETAIL
SCALE: 1"=1"



CONDUIT TRENCH DETAIL
SCALE: 1"=2"

- Ⓐ SATELLITE
- Ⓑ #10 BARE COPPER WIRE FROM GROUNDING TERMINAL LUG
- Ⓒ CONDUIT FROM SATELLITE
- Ⓓ #10 BARE COPPER WIRE FED THROUGH CONDUIT FROM SATELLITE TO GROUNDING ROD
- Ⓔ GROUNDING ROD FROM GK-UL3ROD THREE ROD KIT
- Ⓕ TAN COLOR CARSON 910 SERIES BOX W/ LID & BOLT (1 OF 3)
- Ⓖ #10 BARE COPPER WIRE FROM VALVE BOX HELD IN PLACE WITH BRASS CLAMP (SEE DETAIL FOR "GROUNDING WIRES IN GRID")

- NOTES:**
- PROVIDE WEED CLOTH UNDER AND AROUND THE VALVE BOX AND TAPE IT. PROVIDE WASHED 3/4" PEA GRAVEL 4" DEEP
 - PLAN VIEW FOR LAYOUT ONLY. SEE GROUNDING ROD NOTES FOR INSTALLATION INSTRUCTIONS.

IRRIGATOR'S SEAL

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REYUNDO MARTINEZ
9000

CONDE INC.
REGISTRATION No. F-2321

IRRIGATION DETAILS

SHEET TITLE

14743 HUNTERS GROVE AVE. TIERRA DEL ESTE UNIT SEVENTY TWO PARK

SHT L11 OF L13

PROJECT NAME
14743 HUNTERS GROVE AVE.
TIERRA DEL SOL PARK
TIERRA DEL ESTE UNIT SEVENTY TWO
BEING ALL OF LOT 94 BLOCK 450
TIERRA DEL ESTE SUBDIVISION
CITY OF EL PASO, TEXAS
CONTAINING: 4.079 ACRES

BENCHMARK
CITY MONUMENT AT THE CENTERLINE INTERSECTION OF
FESTIVAL DR. AND N. STANTON DR.
ELEVATION = 4966.20CITY DATUM

SCALE
HORIZ: AS NOTED
VERT: ---

DATE: MARCH 2014
DESIGN BY: EM/RR
INITIATED BY: R.R.
CHECKED BY: R.M.
JOB NO.:

REVISIONS

NO.	DATE	REVISIONS

LANDSCAPE NOTES:

- PLANT MATERIAL SUBSTITUTIONS SHALL NOT BE MADE WITHOUT THE WRITTEN PERMISSION OF THE OWNER. THE USE OF MATERIALS DIFFERING IN KIND, QUALITY OR SIZE FROM THAT SPECIFIED WILL BE ALLOWED ONLY AFTER OWNER IS CONVINCED THAT ALL MEANS OF OBTAINING THE SPECIFIED MATERIAL HAVE BEEN EXHAUSTED. AT THE TIME BIDS ARE SUBMITTED, THE CONTRACTOR IS ASSUMED TO HAVE LOCATED THE MATERIALS NECESSARY TO COMPLETE THE JOB AS SPECIFIED. ALL REQUESTS FOR SUBSTITUTIONS MUST BE SUBMITTED NO LATER THAN TWO WEEKS PRIOR TO THE INITIATION OF WORK.
- PLANT MATERIAL QUALITY, SIZE AND CONDITION SHALL BE IN ACCORDANCE WITH AMERICAN STANDARD FOR NURSERY STOCK, 1980 EDITION, AS PUBLISHED BY THE COMMITTEE ON HORTICULTURAL STANDARDS OF THE AMERICAN ASSOCIATION OF NURSERYMEN, INC.
- ALL PLANTS SHALL BE TYPICAL OF THEIR SPECIES OR VARIETY. ALL PLANTS SHALL HAVE NORMAL WELL DEVELOPED BRANCHES AND VIGOROUS ROOT SYSTEMS. THEY SHALL BE SOUND, HEALTHY, VIGOROUS, FREE FROM DEFECTS, DISFIGURING KNOTS, ABRASIONS OF THE BARK, SUNSCALD INJURIES, PLANT DISEASES, INSECT EGGS, BORES AND ALL OTHER FORMS OF INFECTIONS.
- UNLESS OTHERWISE STATED ON THE DRAWINGS OR APPROVED BY THE OWNER'S REPRESENTATIVE, ALL PLANTS SHALL BE NURSERY GROWN AND SHALL BE TAGGED WITH NURSERY LABELS INDICATING SPECIES AND VARIETY.
- NON-CONTAINER GROWN PLANTS SHALL HAVE A SOLID BALL OF EARTH OF MINIMUM SPECIFIED SIZE AND HELD IN PLACE SECURELY BY BURLAP AND A STOUT TWINE OR ROPE, SEE TREE AND SHRUB PLANTING DETAIL. BROKEN OR LOOSE BALLS WILL BE REJECTED.
- UNLESS SPECIFICALLY NOTED ON DRAWING, ALL TREES SHALL HAVE A SINGLE TRUNK THAT IS STRAIGHT AND FREE OF "DOG-LEGS" "CROOKS" "Y-CROTCHES", OR OTHER DISFIGURING SHAPES, THE CENTRAL LEADER OF ALL TREES SHALL NOT HAVE BEEN PRUNED. TREES WITH DOUBLE LEADERS ARE NOT ACCEPTABLE, UNLESS SPECIFIED AS MULTI-TRUNKED.
- ALL PLANT MATERIAL SHALL HAVE A UNIFORMED SHAPE AROUND ITS COMPLETE CIRCUMFERENCE. PLANT MATERIAL WITH IRREGULAR BRANCHING PATTERNS OR WITH BRANCHING PATTERNS MORE HIGHLY DEVELOPED ON ONE SIDE THAN ON OTHER SIDES SHALL NOT BE ACCEPTABLE.
- THE OWNER'S REPRESENTATIVE SHALL BE THE JUDGE OF THE QUALITY AND ACCEPTABILITY OF ALL PLANT MATERIALS. ALL REJECTED MATERIAL SHALL BE IMMEDIATELY REMOVED FROM THE SITE AND REPLACED WITH ACCEPTABLE MATERIALS AT NO ADDITIONAL COST TO OWNER.
- ALL TREES, SHRUBS AND GROUND COVERS SHALL BE GUARANTEED FOR THE PERIOD OF ONE FULL YEAR BEGINNING ON THE DATE OF FINAL ACCEPTANCE. THE CONTRACTOR SHALL REPLACE ANY DEAD OR UNHEALTHY PLANTS WITHIN 10 WORKING DAYS OF WRITTEN NOTIFICATION AT NO EXPENSE TO THE OWNER. THE CONTRACTOR SHALL NOT BE RESPONSIBLE NOR VANDALIZED PLANT MATERIAL.
- ALL PLANTING BEDS SHOWN ON PLANS SHALL BE MULCHED. NO BEDS WILL BE LEFT UNCOVERED OR NOT TOP DRESSED, UNLESS OTHERWISE SPECIFIED.

GRADING

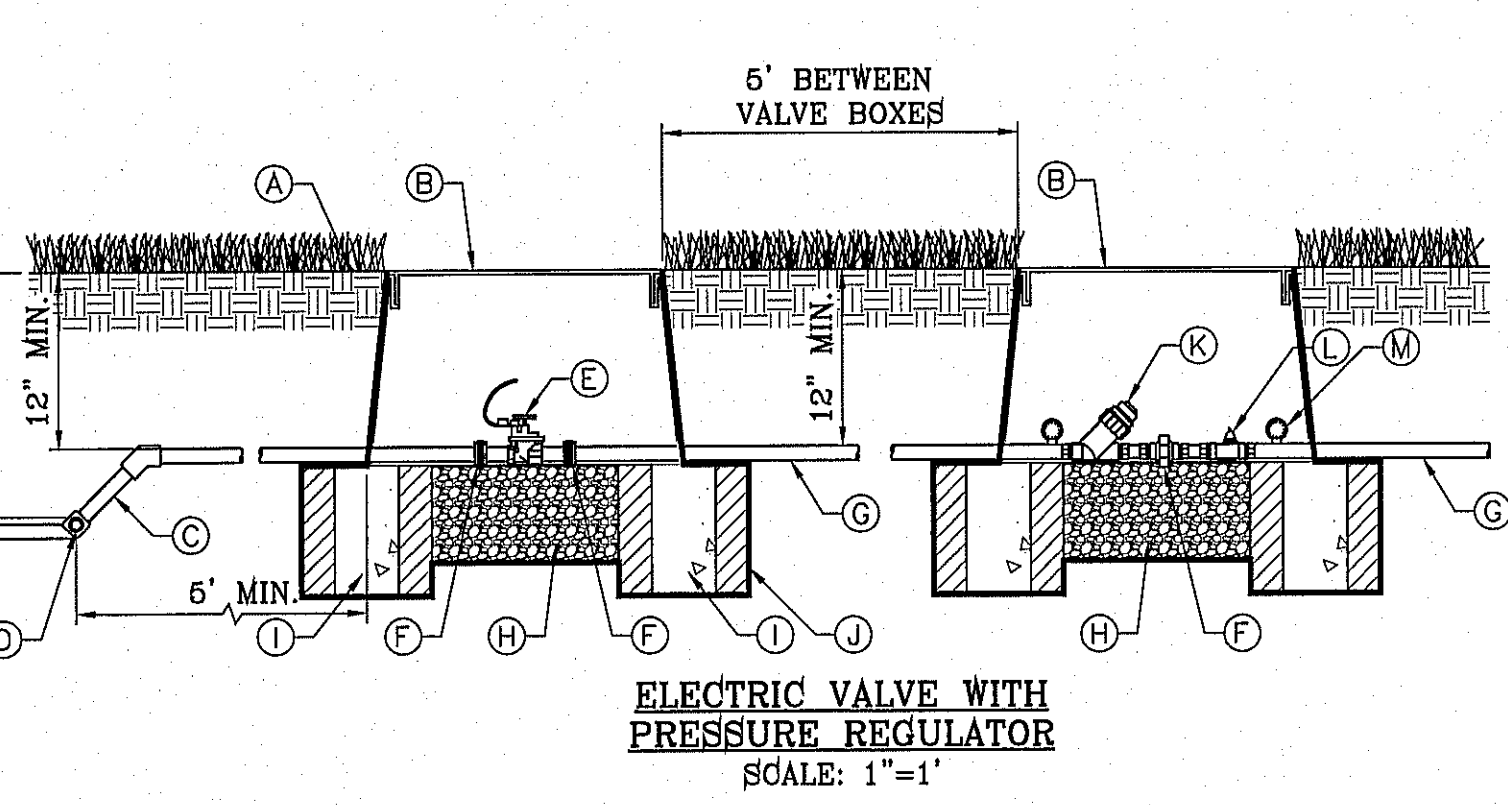
- PERFORM GRADING AND EXCAVATION WORK IN COMPLIANCE WITH APPLICABLE SPECIFICATIONS, REQUIREMENTS, CODES AND ORDINANCES OF ALL GOVERNING BODIES HAVING JURISDICTION.
- FINE GRADING: SURFACE SHALL BE RAKED FREE OF STONES AND EXTRANEOUS MATERIALS AND DEBRIS TO A SMOOTH AND EVEN TEXTURE. ALL EXTRANEOUS MATTER WILL BE DISPOSED OF BY CONTRACTOR.

PROTECTIONS:

- CONTRACTOR SHALL BE FAMILIAR WITH PLANS, DETAILS AND SPECIFICATIONS AS THEY PERTAIN TO THE SITE. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE OWNER'S REPRESENTATIVE IF ANY ITEMS CONTAINED WITHIN THE SCOPE OF WORK DEFINED HEREIN ARE IN CONFLICT WITH PROPOSED CONTRACT.
- EXISTING UTILITY LINES ARE TO BE BLUE STAKED PRIOR TO EXCAVATION. CHECK AND FIELD VERIFY ALL SITE CONDITIONS, UTILITIES AND SERVICES PRIOR TO EXCAVATION. CALL FOR BLUE STAKING.
- THE CONTRACTOR SHALL BE LIABLE FOR ANY LOOSE OR DAMAGE TO ANY WORK OR MATERIALS, SUPPLIES AND EQUIPMENT ON THE JOB SITE CAUSED BY THE CONTRACTOR OR ITS EMPLOYEES.
- CONTRACTOR IS TO BARRICADE OPEN EXCAVATIONS OCCURRING AS PART OF THIS WORK AND POST WITH WARNING LIGHTS OR OTHER WARNING MEASURES AS NECESSARY. PROTECTION OF EXISTING SHRUBS, TREES, AND OTHER PLANT MATERIALS ARE ALSO TO BE INCLUDED.
- PROTECT STRUCTURES, UTILITIES, SIDEWALKS, PAVEMENTS, AND OTHER FACILITIES FROM DAMAGE CAUSED BY SETTLEMENT, LATERAL MOVEMENT, UNDERMINING, WASHOUT AND OTHER HAZARDS CREATED BY EARTHWORK OPERATIONS. ALL DAMAGES THAT MY OCCUR DURING THIS PHASE OF WORK SHALL BE THE CONTRACTOR'S FINANCIAL RESPONSIBILITY.
- CONTRACTOR SHALL COORDINATE ALL WORK WITH OTHER CONTRACTORS.

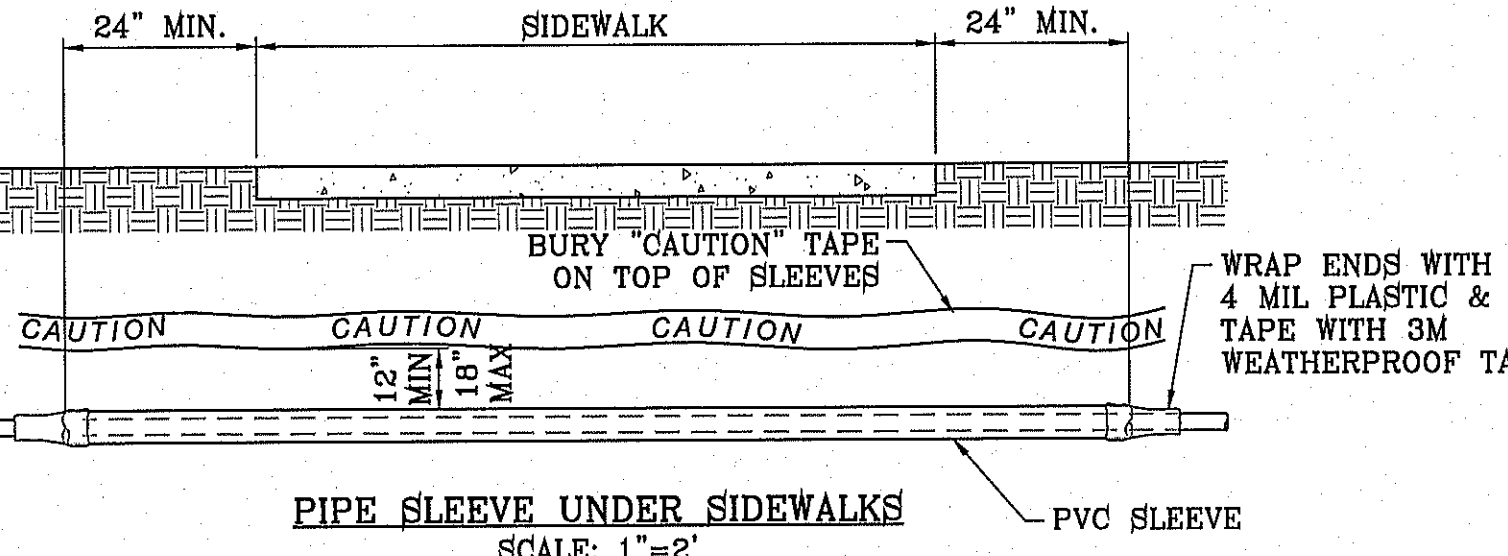
GENERAL NOTES:

- THE DEVELOPER SHALL REGISTER THE PROJECT WITH TDLR, TO INCLUDE SUBMITTAL OF DRAWINGS, INSPECTION AND CERTIFICATE OF SUBSTANTIAL COMPLEXION.
- ALL TURF AREAS ARE HYBRID BERMUDA 'SANTA ANA' SOD OR SEED IN ACCORDANCE TO PARKS DESIGN AND CONSTRUCTION STANDARDS
- SEEDING NEEDS TO OCCUR BETWEEN APRIL 16 THROUGH JUNE 16 TO YIELD BEST ESTABLISHED STAND. OUTSIDE THAT WINDOW SOD SHOULD BE THE METHOD OF PLANTING.
- TREE LOCATIONS TO BE COORDINATED WITH PARKS DEPARTMENT IN THE FIELD TO PREVENT BEING PLANTED TOO CLOSE TO SPRINKLERS.
- ENGINEERED WOOD CHIP FIBERS SHALL BE COMPACTED AS PER THE SUPPLIER'S TESTING LAB RECOMMENDATIONS, WHICH SHALL COMPLY WITH THE MOST CURRENT STANDARDS IN ACCESSIBILITY.
- SILT FENCE TO BE INSTALLED AND MAINTAINED ALONG THE PERIMETER OF THE PARK SITE UNTIL ALL ABUTTING RESIDENCES ARE DEVELOPED.



- (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
- (C) IRRIGATION MAINLINE/LATERAL MAINLINE
- (D) IRRIGATION MAINLINE SERVICE TEE OR ELL
- (E) WEATHERMATIC 8200CR-20 ELECTRIC CONTROL VALVE
- (F) SCHEDULE 80 PVC UNIONS ON LINES 3" OR SMALLER, AND FLANGES ON LINES 3" OR LARGER
- (G) LATERAL LINE
- (H) 1 CUBIC FOOT 1" DIAMETER WASHED ROCK
- (I) 8"x8"x16" SOLID CMU BLOCK
- (J) PROVIDE WEED BARRIER FABRIC 'DeWITT PRO 5' UNDER AND AROUND VALVE BOX AND SEAL ALL PIPE PENETRATIONS RAINBIRD
- (K) AMIAD WYE FILTER TO BE SET AT ANGLE TO BE ABLE TO DRAIN AND BE SERVICED READILY.
- (L) WILKINS BF4 BRONZE BODY OR IN-LINE PRESSURE REGULATOR
- (M) GAUGE

NOTE: PVC PIPE ASSEMBLIES AT IRRIGATION VALVES, PRESSURE REGULATOR AND FILTER ARE TO HAVE UNIONS ON BOTH INTAKE AND DISCHARGE SIDES OF THE EQUIPMENT WHEN THE PIPE IS SMALLER THAN THREE INCHES AND FLANGES ARE TO BE USED ON PIPE THREE INCHES AND LARGER. INSURE THAT THE EQUIPMENT AND FITTINGS ARE ACCOMMODATED WITHIN THE 1419 CARSON IRRIGATION VALVE BOX.



IRRIGATION NOTES

- ALL WORK MUST BE IN COMPLIANCE WITH THE TEXAS COMMISSION ON ENVIRONMENTAL QUALITY RULES AND REGULATIONS.
- ANY DAMAGE CAUSED BY THE CONTRACTOR SHALL BE REPAIRED OR REPLACED BY CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
- THE CONTRACTOR SHALL PROVIDED ALL EQUIPMENT, TOOLS, PRODUCTS, MATERIALS, LABOR, TRANSPORTATION AND OBTAIN ALL PERMITS AND PAY ALL REQUIRED FEES.
- ALL PAVEMENT TRENCHING SHALL BE IN PERFORMED TO THE CITY OF EL PASO FOR PUBLIC WORK CONSTRUCTION.
- PIPING UNDER HARDSCAPES (DRIVEWAYS, SIDEWALKS, etc. etc.) SHALL REQUIRE SLEEVEING. GENERALLY TWO SIZES LARGER THAN IRRIGATION PIPING AND ONE FOOT BEYOND EDGE OF HARDSCAPE.
- ALL SPRINKLER HEADS ADJACENT TO HARDSCAPES SHALL BE PLACED A MINIMUM OF ONE FOOT FROM EDGE OF SURFACING.
- SOME PIPES, VALVES, BACKFLOWS etc. etc. HAVE BEEN SHOWN IN PAVING, SIDEWALKS OR OUTSIDE THE BOUNDARY FOR CLARITY ONLY.
- STATIC PRESSURE (60 PSI) BASED ON CLOSEST FIRE HYDRANT TO THE PROJECT SITE ON PEBBLE HILLS BLVD. AND JOHN HAYES ST. AS PER THE PSB. THE CONTRACTOR/INSTALLER SHALL FIELD VERIFY THE STATIC PRESSURE OF THE WATER SUPPLY. THE CONTRACTOR SHALL BE RESPONSIBLE TO IMMEDIATELY CONTACT THE LICENSED IRRIGATOR IF STATIC PRESSURE OR FIELD CONDITIONS ARE DIFFERENT IN THE FIELD THAN SHOWN ON PLANS.
- CONTRACTOR IS REQUIRED TO APPLY FOR AND OBTAIN IRRIGATION PERMIT FROM BP&I

TRENCHING

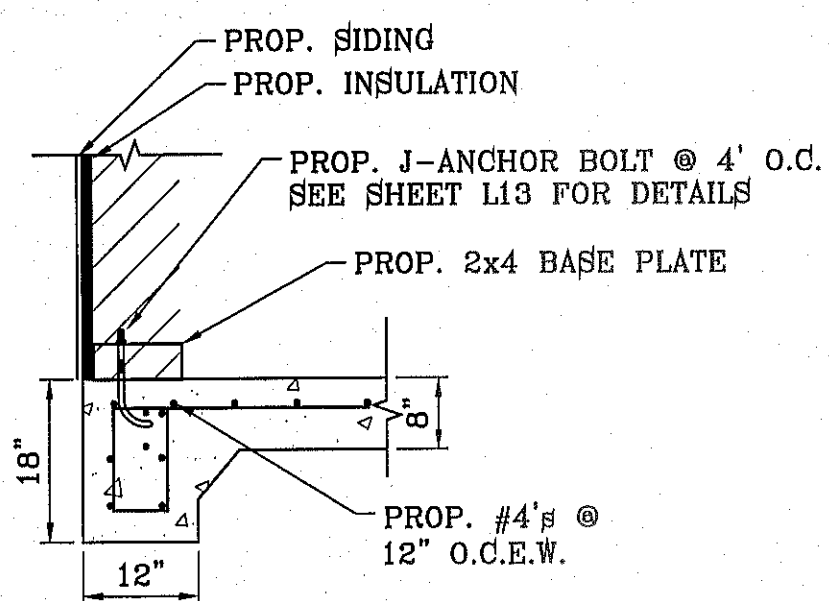
- CONTACT LOCAL UTILITY COMPANIES AND BLUE STAKE ALL UTILITIES PRIOR TO EXCAVATION.
- ALL TRENCHING SHALL BE DONE IN STRICT ACCORDANCE WITH OSHA-2226.
- PIPES MUST BE FLUSHED AND INSPECTED BY PROJECT INSPECTOR BEFORE INSTALLING VALVES AND SPRINKLERS.
- PIPES SHALL NOT BE BURIED UNTIL INSPECTED BY PROJECT INSPECTOR. CONTRACTOR MUST UNCOVER THE WORK TO BE INSPECTED AND/OR TESTED AND BE RE-BURIED AT THEIR EXPENSE.
- AVOID OBSTACLES (UTILITIES, TREE ROOTS, BOULDERS etc. etc.) ALLOW A MINIMUM OF TWO INCHES OF COVERAGE
- BACKFILL MATERIAL SHALL CONTAIN NO LUMPS, ROCKS LARGER THAN ONE INCH OR ORGANIC MATERIAL. BACKFILL MATERIAL MUST BE APPROVED BY PROJECT INSPECTOR PRIOR FILLING OF TRENCHES.
- IF EXCAVATING 16 INCHES OR DEEPER WITH POWER EQUIPMENT, YOU MUST BY LAW CALL 1-800-DIG TESS (800-344-8377) 48 HOURS BEFORE EXCAVATING.
- LATERAL LINES SHALL BE TO A DEPTH OF 12". MAIN LINES SHALL BE TO A DEPTH OF 18" AND VALVE ELECTRICAL WIRES TO A DEPTH OF 18". SEE TRENCH DETAIL ON ### OF ###.

SOLVENT WELDING

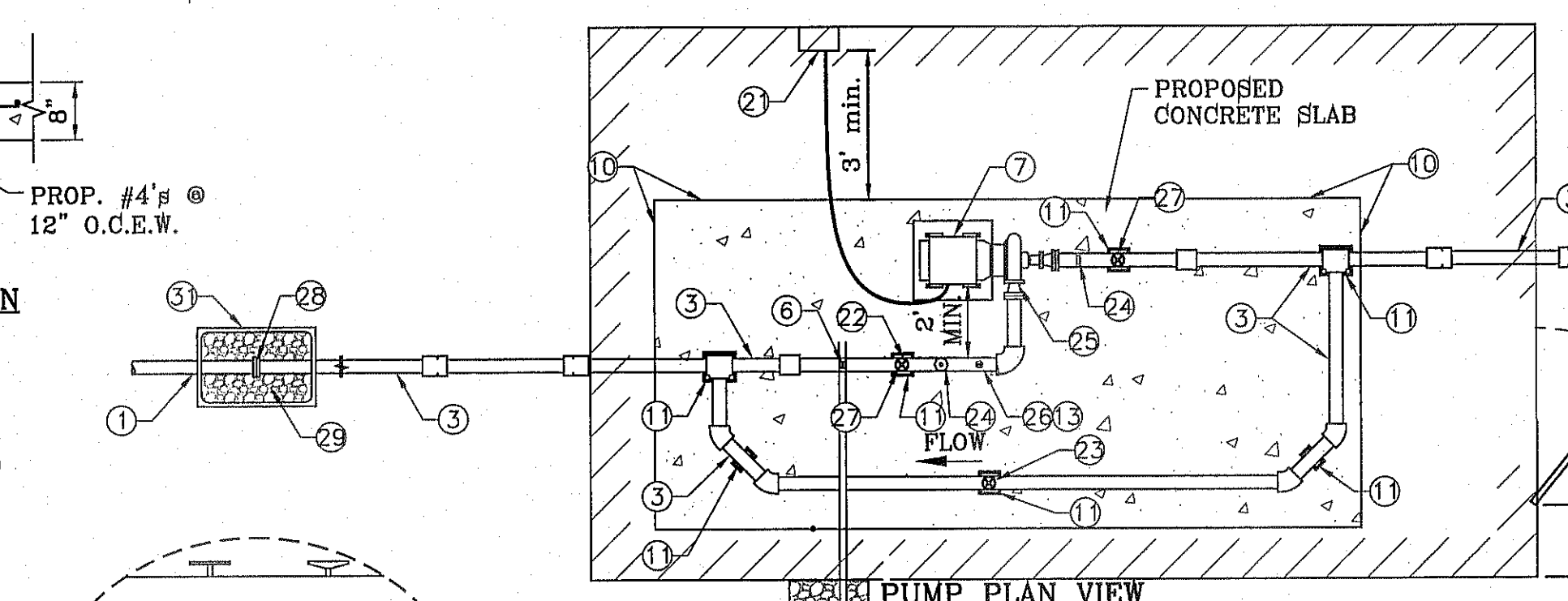
- USE IPS WELD-ON CLEANER AND PURPLE PRIMER P68 OR P70 TO CLEAN AND PREPARE THE PIPES BEING JOINED.
- USE IPS WELD-ON GRAY GLUE #711 HEAVY DUTY.
- LACK OF SUFFICIENT SOLVENT WILL RESULT IN A WEAK CONNECTION, EXCESS SOLVENT WILL WEAKEN THE STRUCTURE. USE THE RIGHT AMOUNT OF SOLVENT FOR A SOUND INSTALLATION.
- PIPE BENDS AND FITTINGS MUST BE INSPECTED DURING PRESSURE TEST. SOLVENT WELDING IS REQUIRED ON ALL PIPE BENDS AND FITTINGS. INSTALL ACCORDING TO MANUFACTURERS' SPECIFICATIONS.
- CLEAN OFF ALL BURRS FROM PIPE CUTS, BEVEL THE END OF THE MAIN LINE AND WIPE EXCESS SOLVENT FROM JOINT.

ELECTRICAL WIRING

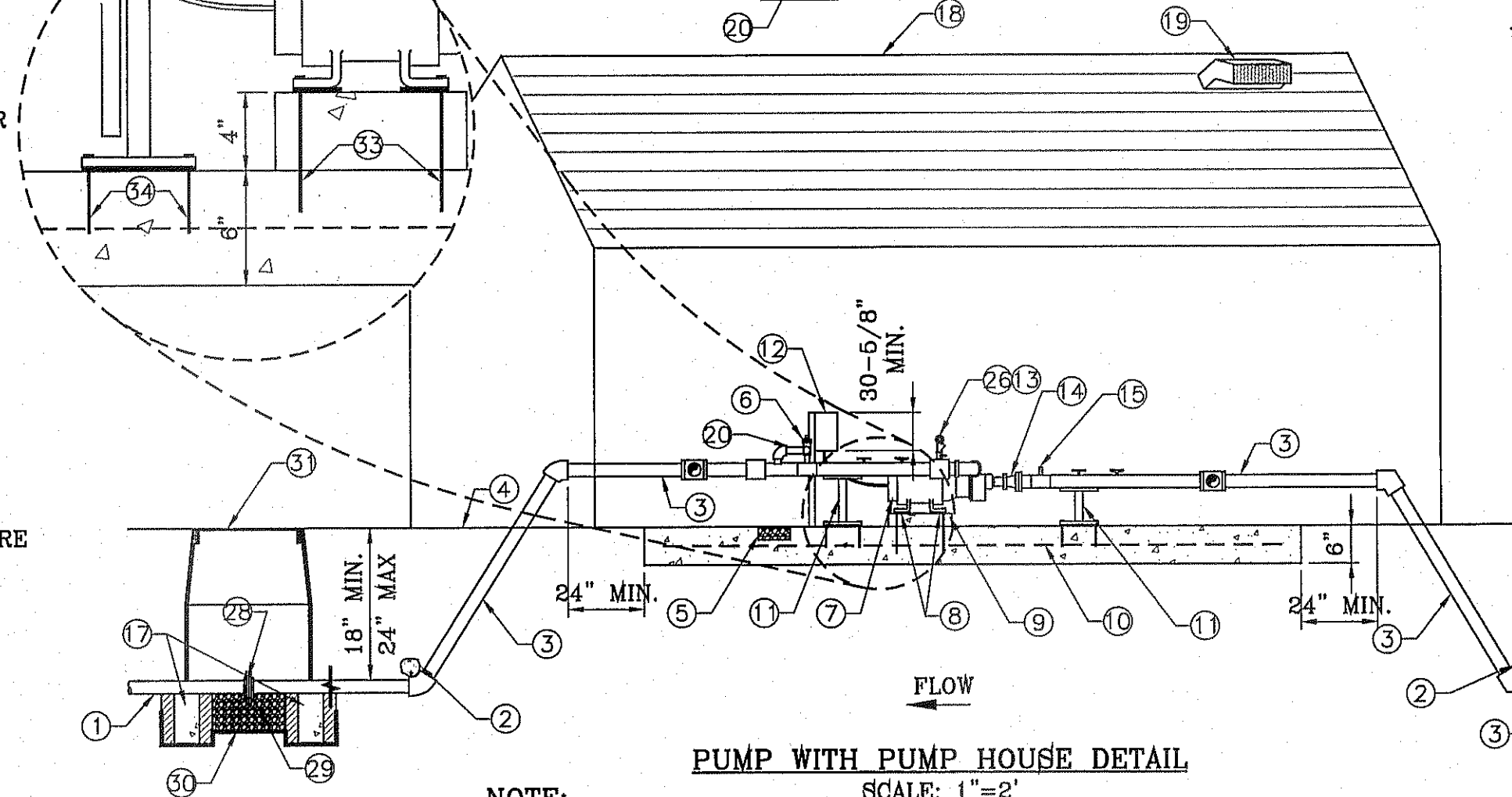
- WIRES SHOULD NOT BE STRETCHED TIGHT IN THE TRENCHES, ALLOW EXTRA WIRE FOR SHARP TURNS IN THE TRENCHES.
- WIRING SHALL BE UL LISTED FOR DIRECT BURIAL AND SIZED ACCORDING TO MANUFACTURER'S SPECIFICATIONS.
- DIRECT BURIAL WIRE SPLICES MUST BE WATERPROOF AS PER MANUFACTURER'S SPECIFICATIONS.
- WIRES SHALL BE LABELED WITH WATERPROOF TAGS AT THE CONTROLLER AND VALVE BOX.



CONCRETE FOUNDATION FOR PUMP HOUSE
SCALE: 1"=1'



PUMP PLAN VIEW
SCALE: 1"=2'

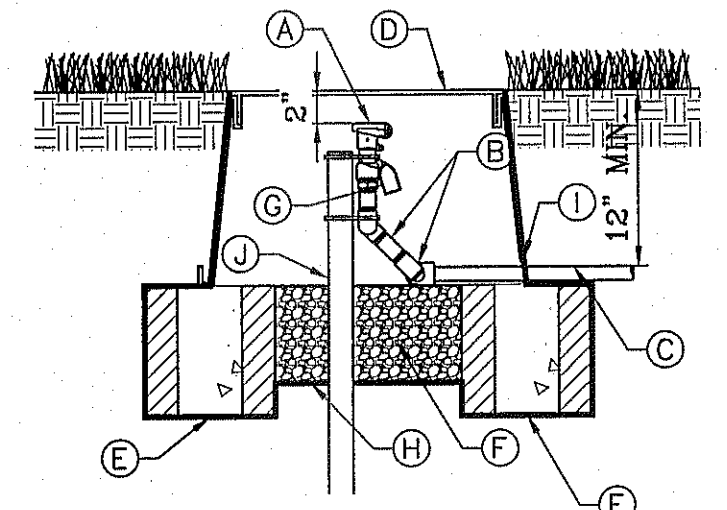


NOTE: ELECTRICAL POWER CONDUIT AND PUMP CONTROL POWER TO BE INSTALLED (BURIED) AT 36" DEPTH FROM FINISH GROUND TO TOP OF PIPE. SEE CONDUIT TRENCH DETAIL.

NOTES:

- "SUPPLY LINE" REFERS TO PVC PIPE AND/OR IRRIGATION LINE. DEPTH OF WHICH IS TO COMPLY WITH DESIGN AND CONSTRUCTION STANDARDS FOR PARK FACILITIES UPDATED ON JANUARY 8, 2013.
- PIPE SLEEVE IS TO BE TWICE THE SIZE OF SUPPLY LINE UNLESS OTHERWISE NOTED.
- SUPPLY LINE AND PIPE SLEEVE TO BE CONSTRUCTED/INSTALLED IN ACCORDANCE WITH DESIGN AND CONSTRUCTION STANDARDS FOR PARK FACILITIES.
- PIPE TO BE EXTENDED 24" BEHIND CURB AND FOR ENDS TO BE WRAPPED AND TAPED WITH 4 MIL PLASTIC AND 3M HEAVY DUTY PLASTIC TAPE.

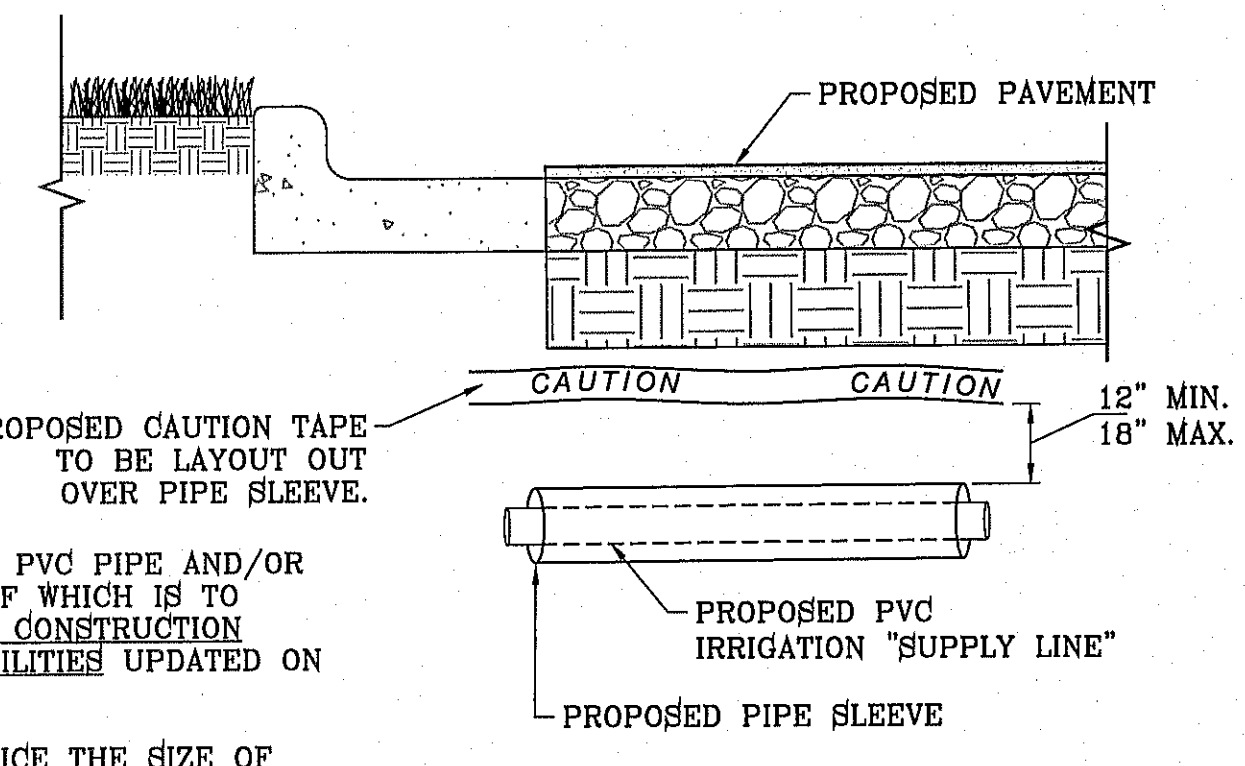
- (A) ISOLATION BRASS BALL VALVE (SAME SIZE AS PIPE)
- (B) THREADED MALE ADAPTERS
- (C) PVC LATERAL
- (D) 419 PURPLE CARSON VALVE BOX W/ FLAT LID TO BE BOLTED DOWN.
- (E) SOLID BRICK BLOCK AT EACH CORNER
- (F) WATER PROOF TAGS THAT READ "NON-POTABLE WATER, NOT SAFE FOR DRINKING."
- (G) 3/8" PEA GRAVEL, 4" DEEP (NO SOIL IN BOX)
- (H) PROVIDE WEED BARRIER FABRIC 'DeWITT PRO 5' UNDER AND AROUND VALVE BOX AND SEAL ALL PIPE PENETRATIONS
- (I) 6 mm BLACK POLYETHYLENE PLASTIC TAPE TO ALL INLET AND OUTLET PIPE



QUICK COUPLER VALVE
SCALE: 1"=1'

- (1) PVC MAINLINE TO VALVES, SIZE AS NOTED
- (2) THRUST BLOCK, SEE DETAIL
- (3) COPPER LINE, SIZE AS NOTED
- (4) FINISH GROUND
- (5) 3/4" GRAVEL BED, 4" THICK
- (6) 2" BERMAD PRESSURE RELIEF VALVE MODEL 730-Q
- (7) PUMP
- (8) RUBBER ISOLATORS
- (9) 4" CONCRETE SLAB ABOVE DOOR THRESHOLD.
- (10) 8" CONCRETE SLAB, 3000 PSI W/ 6X8 #WWF
- (11) STEEL SUPPORTS WITH ISOLATORS BOLTED TO CONCRETE
- (12) PUMP PANEL, PUMAS MODEL EPI00, NEMA 480 VOLT, 3 PHASE MODEL #8775HP WITH VOLTAGE MONITOR AND 3 PLUG-IN RELAYS FOR EACH CONTROLLER AND STALL TIMER.
- (13) MERCROID TYPE OA PRESSURE CONTROL HIGH/LOW PRESSURE CUT-OFF SWITCH. WIRE TO PUMP PANEL.
- (14) ECCENTRIC REDUCER FLAT SIDE UP
- (15) 100LB. PRESSURE GAUGE
- (16) TEE FITTING WITH 1" BRASS BALL VALVE IN VALVE BOX TO ALLOW DRAINING OF SYSTEM ON A 3/8" PEA GRAVEL BED OVER WEED CLOTH
- (17) SOLID BRICK BLOCK AT EACH CORNER

- (18) PUMP ENCLOSURE TO BE A TUFF SHED OR EQUIVALENT BOLTED ON CONCRETE WITH R-13 INSULATED WALLS AND R-19 INSULATION ON CEILING.
- (19) METAL STATIC VENT
- (20) 2" COPPER TO DAYLIGHT OUTSIDE OF PUMP HOUSE
- (21) PUMP PANEL MOUNTED ON 3/4" CDX GRADE PLYWOOD MOUNTED ON INSULATED WALL OF PUMP HOUSE
- (22) BRASS BALL VALVE
- (23) 3" WATERMAN POW-160 SPRING LOADED CHECK VALVE
- (24) 100LB. PRESSURE GAUGE
- (25) CONCENTRIC REDUCER
- (26) MERCROID SWITCH ON DISCHARGE SIDE OF PUMP
- (27) BRASS BALL VALVE
- (28) FLANGE
- (29) 3/8" PEA GRAVEL, 4" DEEP (NO SOIL IN BOX)
- (30) WEED CLOTH ALL AROUND BOX, PIPE AND UNDER PEA GRAVEL. TAPE TO SEAL ALL GAPS AND PENETRATIONS. USE 3M HIGH GRADE PLASTIC TAPE.
- (31) CARSON VALVE BOX, 1419 SERIES WITH EXTENSIONS AS NEEDED & BOLT DOWN FLAT LID
- (32) DOOR TOWARDS STREET
- (33) 7" LONG, 6/8" CONCRETE ANCHORS (DRILLED) WITH NUTS
- (34) 4" LONG, 6/8" CONCRETE ANCHORS (DRILLED) WITH NUTS



PIPE SLEEVE DETAIL WITH GENERAL NOTES
SCALE: 1"=1'

NOTES:

- ISOLATION VALVE ALSO APPLICABLE TO QUICK COUPLER VALVE ALSO.
 - QUICK COUPLER AND ISOLATION VALVE TO HAVE PURPLE COLORED TAGS CALLED OUR FOR THEM.
- (A) BUCKNER DOUBLE LUG QUICK-COUPLING VALVE WITH PURPLE CAP
 - (B) LASCO PRE-ASSEMBLED SWING JOINT WITH SNAP LOCK STABILIZER ASSEMBLY AND BRASS FITTING
 - (C) PVC LATERAL
 - (D) 1419 PURPLE CARSON VALVE BOX W/ FLAT LID
 - (E) SOLID BRICK BLOCK AT EACH CORNER
 - (F) 3/8" PEA GRAVEL TO UNDERSIDE OF BRASS FITTING, 4" DEEP (NO SOIL IN BOX)
 - (G) WATER PROOF TAGS THAT READ "NON-POTABLE WATER NOT SAFE FOR DRINKING."
 - (H) PROVIDE WEED BARRIER FABRIC 'DeWITT PRO 5' UNDER AND AROUND VALVE BOX AND SEAL ALL PIPE PENETRATIONS
 - (I) 6 mm BLACK POLYETHYLENE PLASTIC TAPE TO ALL INLET AND OUTLET PIPE
 - (J) PVC PIPE STABILIZER

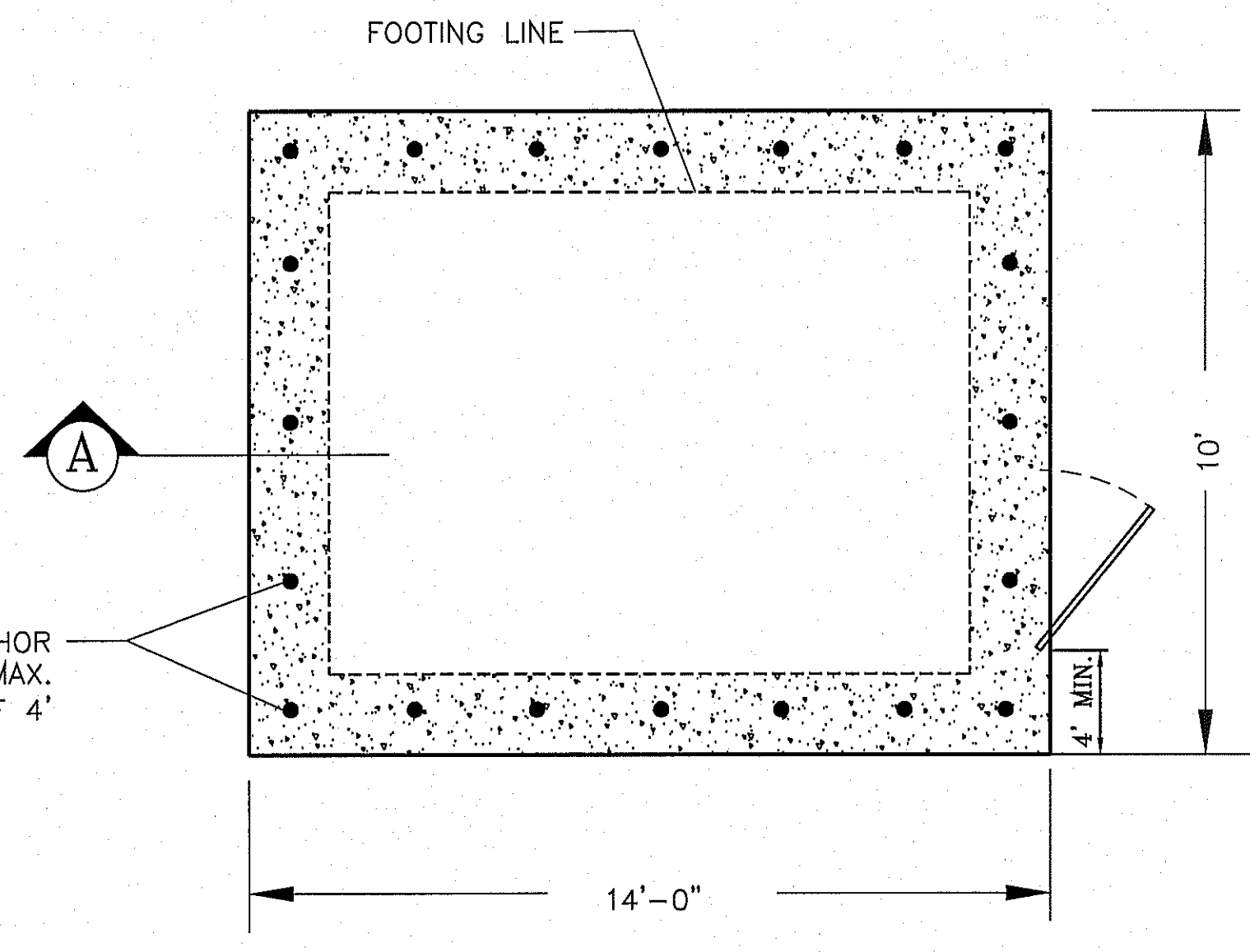
PARKS DEPARTMENT

REVIEWED BY *[Signature]* 12/02/2014

FILE LOCATION: S:\LANDSCAPE\72\DWG\DETAILS_PLOTTED ON Wednesday, November 19, 2014 11:53:40 AM BY RUBEN RIVERA

PROJECT NAME: 14743 HUNTERS GROVE AVE. TIERRA DEL ESTE UNIT SEVENTY TWO
 CITY MONUMENT AT THE CENTERLINE INTERSECTION OF FESTIVAL DR. AND N. STANTON DR. ELEVATION = 4368.20 CITY DATUM
 REVISIONS: _____
 DATE: _____
 BY: _____
 S C A L E: _____
 HORIZ: AS NOTED
 VERT: _____
 DATE: MARCH 2014
 DESIGNED BY: RM/R.R.
 INITIATED BY: R.R.
 CHECKED BY: R.M.
 JOB NO.: _____
 IRRIGATOR'S SEAL: _____
 STATE OF TEXAS
 REYUNDO MARTINEZ
 9088
 CONDE INC.
 ENGINEERING / PLANNING
 SURVEYING / GPS
 6080 SURETY DR. STE 100
 EL PASO, TEXAS 79965
 PHONE: (915) 592-0283
 FAX: (915) 592-0286
 CONDE INC. REGISTRATION No. P-2321
 SHEET TITLE: IRRIGATION DETAILS
 SHT L12 OF L13

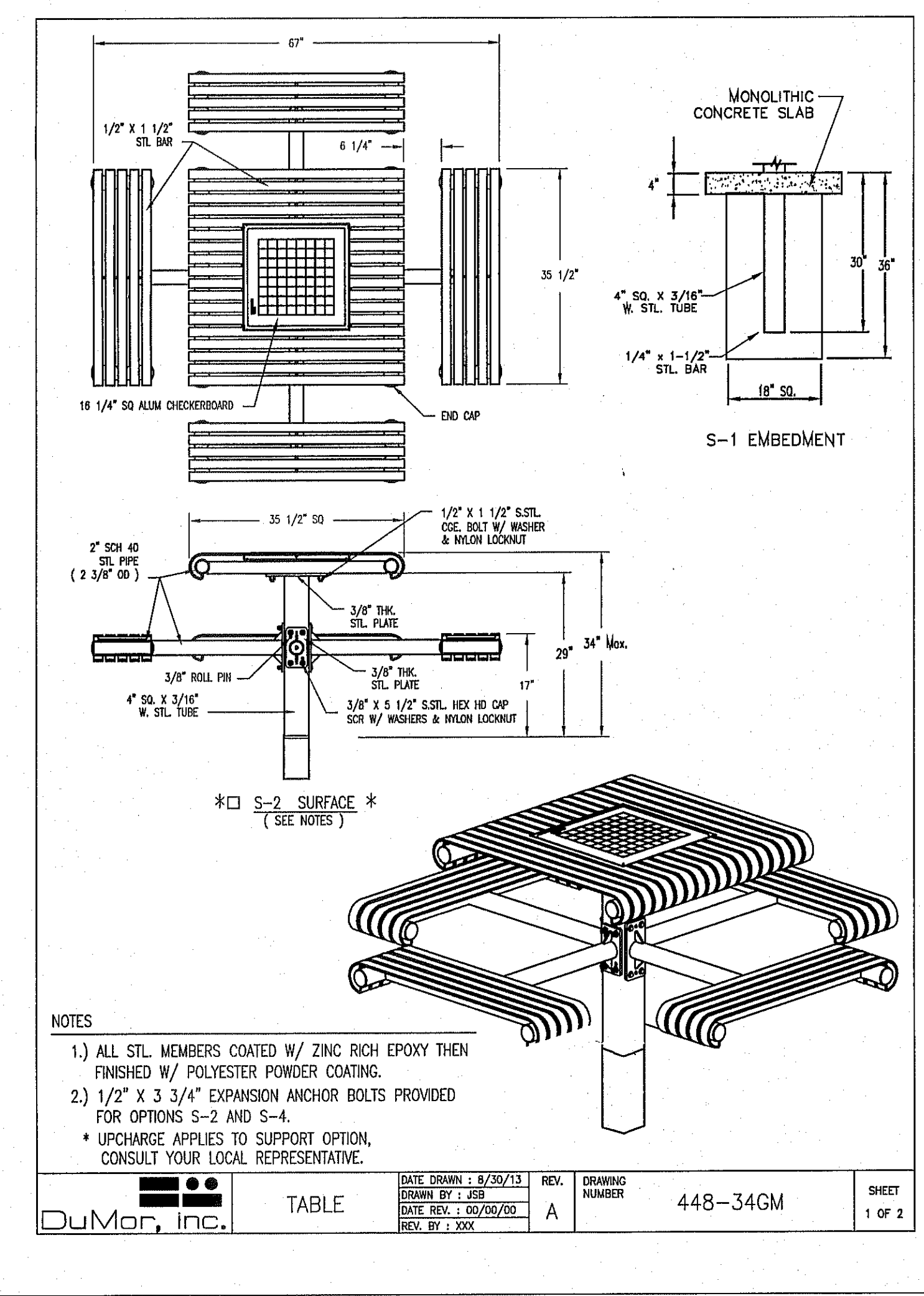
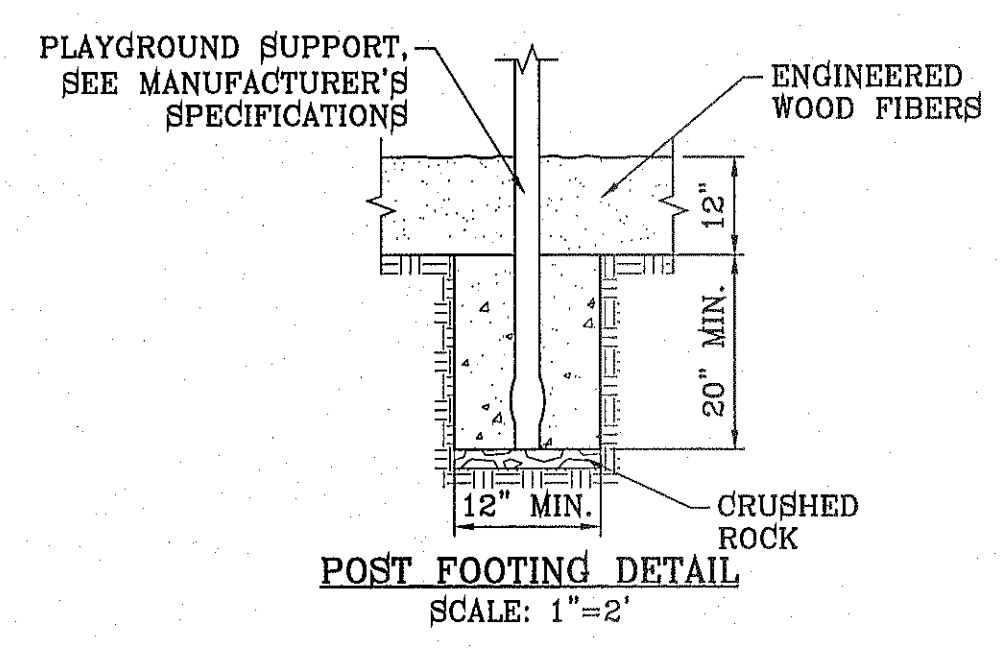
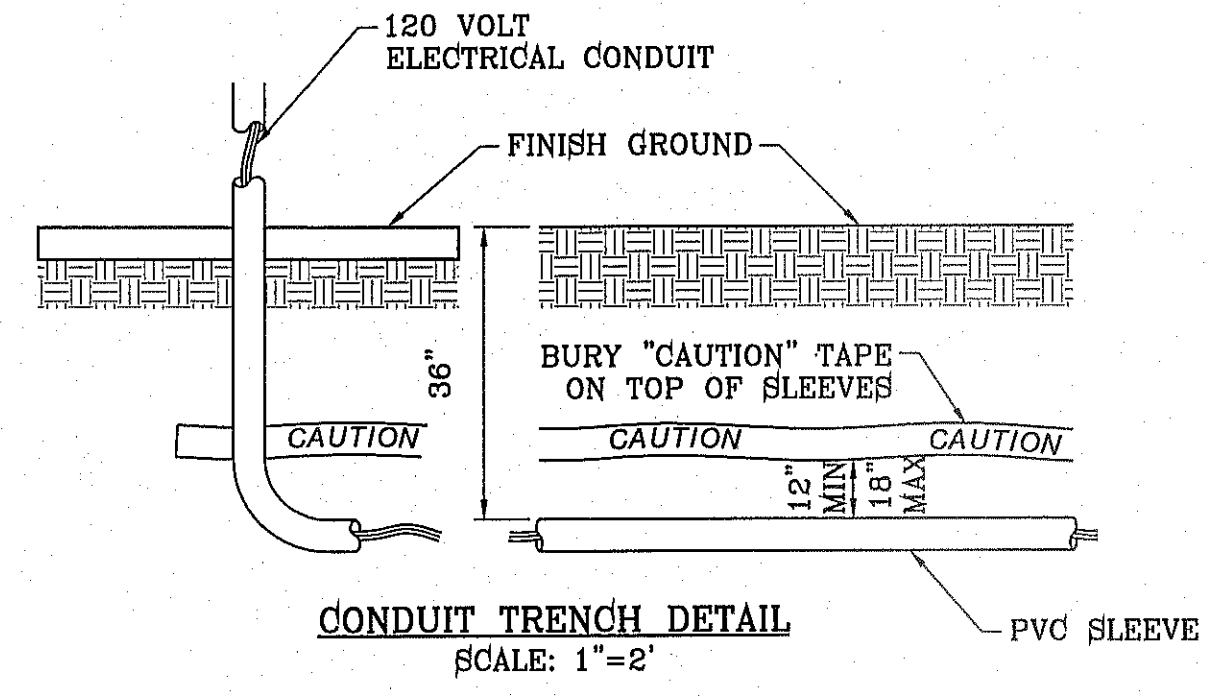
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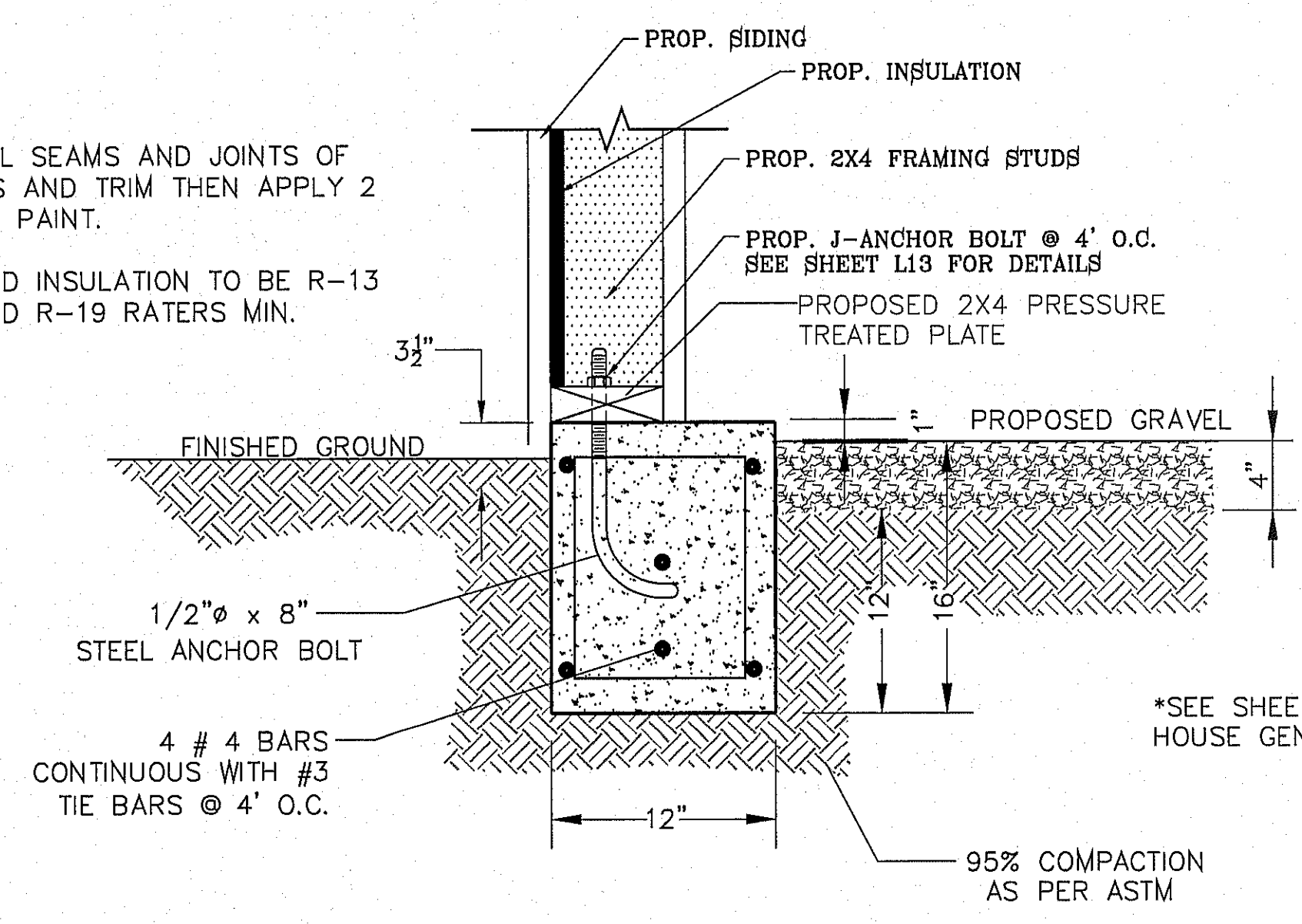
FOUNDATION PLAN
PLAN VIEW ELEVATION
SCALE: 1"=3'

- STRUCTURAL NOTES:
- 3" MIN. COVER FOR REINF. STEEL.
 - FOOTING TO BE 12" MIN. IN WIDTH.
 - BACKFILL MATERIALS SHALL BE PLACED AND COMPACTED IN 8" TO 12" LIFTS AND COMPACTED TO 95% COMPACTION AS PER ASTM D1557.
 - COMPRESSIVE STRENGTH OF CONCRETE SHALL BE 3,000 PSI MIN.
 - YIELD STRENGTH OF REINFORCEMENT SHALL BE 60,000 PSI.
 - MODULUS OF ELASTICITY OF STEEL = 29,000,000 PSI
 - REINFORCEMENT SHALL CONFORM TO THE REQUIREMENT OF ASTM A615.
 - ALLOWABLE TENSILE STRESS IN REINFORCEMENT = 24,000 PSI
 - EQUIVALENT FLUID PRESSURE OF SOIL = 45 PCF
 - ASSUME ALLOWABLE SOIL BEARING PRESSURE = 2,500 PSF MIN.

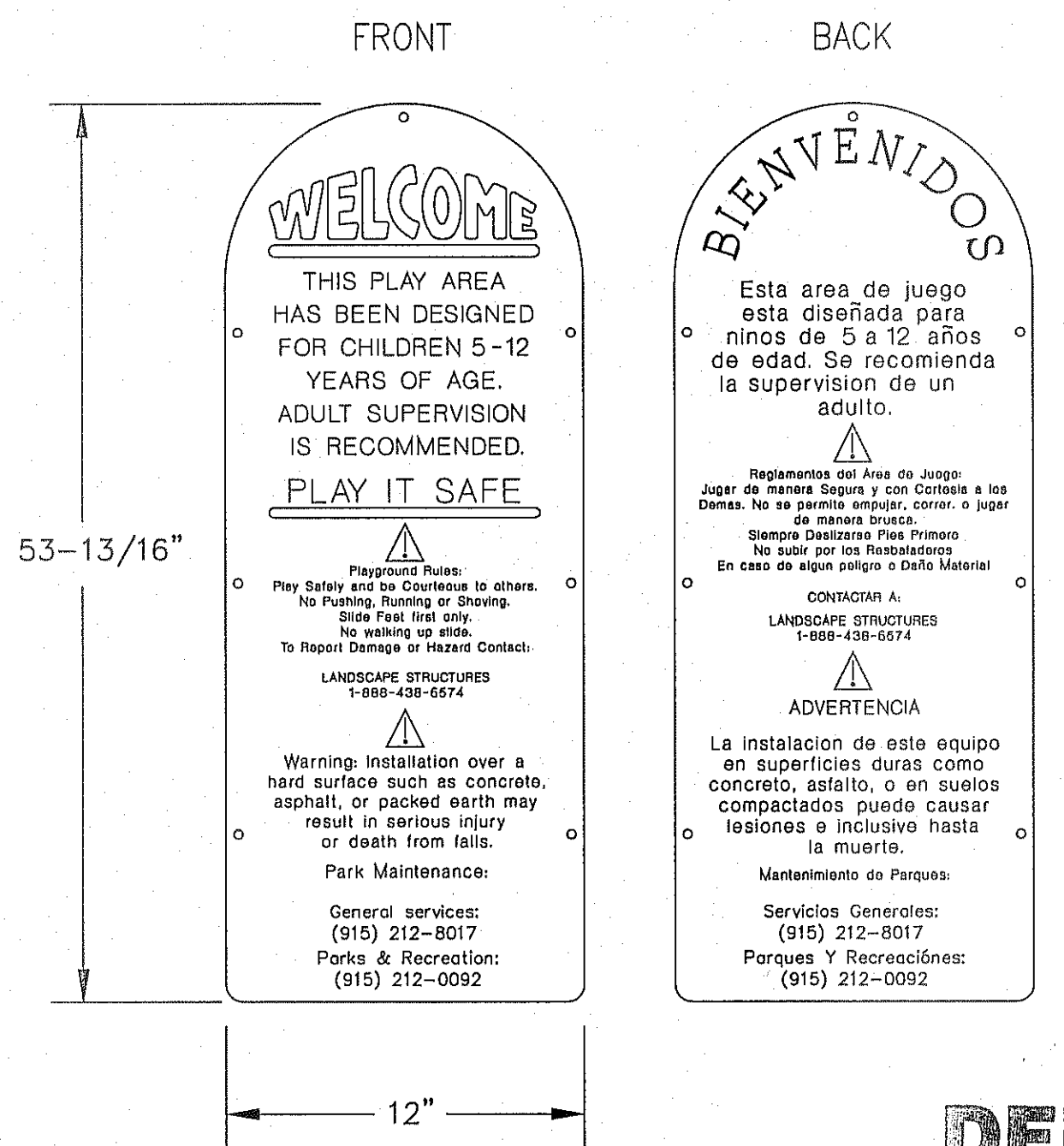
PROP. J-ANCHOR BOLTS WITH MAX. SPACING OF 4'



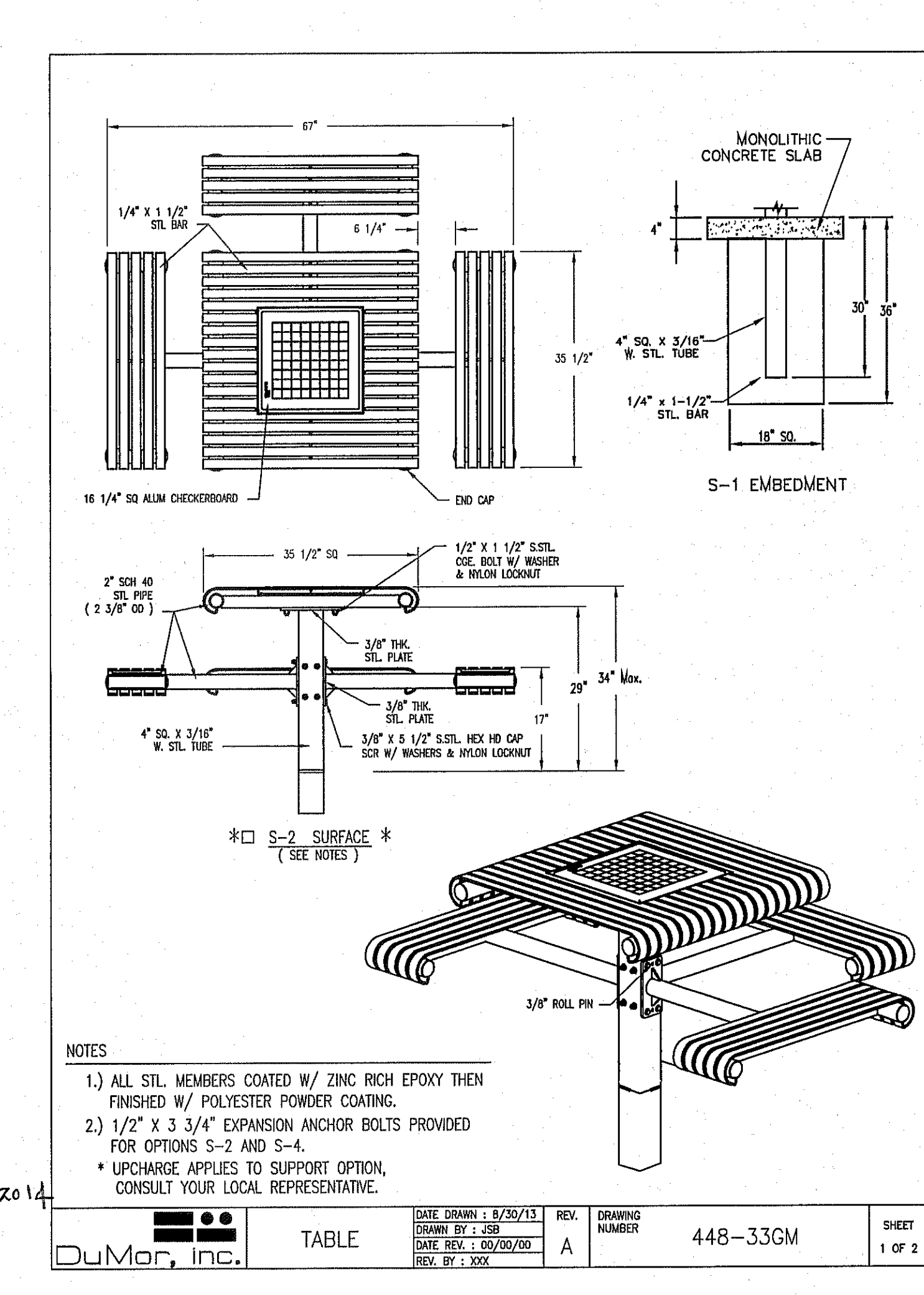
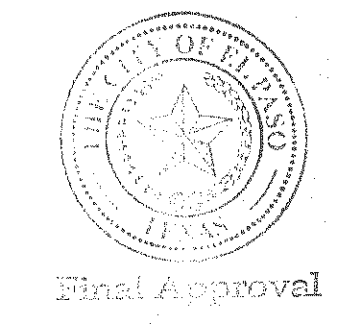
- NOTE:
- CAULK ALL SEAMS AND JOINTS OF SIDEWALLS AND TRIM THEN APPLY 2 COATS OF PAINT.
 - SIDING AND INSULATION TO BE R-13 WALLS AND R-19 RATERS MIN.



SECTION "A"
SCALE: 1"=1'



PARKS DEPARTMENT
CUSTOM EVOS SIGN DETAIL SCALE: NTP
REVIEWED BY [Signature] 12/07/2014



14743 HUNTERS GROVE AVE. TIERRA DEL ESTE UNIT SEVENTY TWO PARK

PROJECT NAME: 14743 HUNTERS GROVE AVE. TIERRA DEL SOL PARK
TIERRA DEL ESTE UNIT SEVENTY TWO
BEING ALL OF LOT 34 BLOCK 430 TIERRA DEL ESTE UNIT 72 SUBDIVISION CITY OF EL PASO, TEXAS
CONTAINING: 4.079 ACRES

BENCHMARK: CITY MONUMENT AT THE CENTERLINE INTERSECTION OF FESTIVAL DR. AND N. STANTON DR. ELEVATION = 4368.20CITY DATUM

DATE: _____ REVISIONS: _____ BY: _____

SCALE: S C A L E
HORIZ: --- VERT: ---
DATE: MARCH 2014
DESIGN BY: RM/RR
INITIATED BY: R.R.
CHECKED BY: R.M.
JOB NO.:

BRIGGINS'S SEAL
REV. MARCH 2014
REVUNDO MARTINEZ
9000

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

CONDE INC. REGISTRATION No. P-2321

SHEET TITLE: IRRIGATION DETAILS

SHT L13 OF L13

SHOP DRAWINGS TO BE COORDINATED WITH PARKS DEPT. BEFORE THE PLAYGROUND EQUIPMENT INSTALLATION

Estimated manufacturing time:
4 weeks from the time of LSI order acceptance.

TOTAL AREA
5655 SF



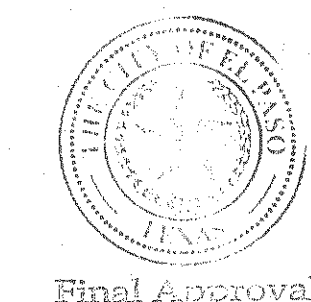
The play components identified on this plan are IPEMA certified. (Unless model number is preceded with *) The use and layout of these components conform to the requirements of ASTM F1487.

THIS PLAY AREA & EQUIPMENT IS DESIGNED FOR AGES 5-12 YEARS UNLESS OTHERWISE NOTED ON PLAN.

IT IS THE MANUFACTURERS OPINION THAT THIS PLAY AREA DOES CONFORM TO THE A.D.A. ACCESSIBILITY STANDARDS, ASSUMING AN ACCESSIBLE PROTECTIVE SURFACING IS PROVIDED, AS INDICATED, OR WITHIN THE ENTIRE USE ZONE.

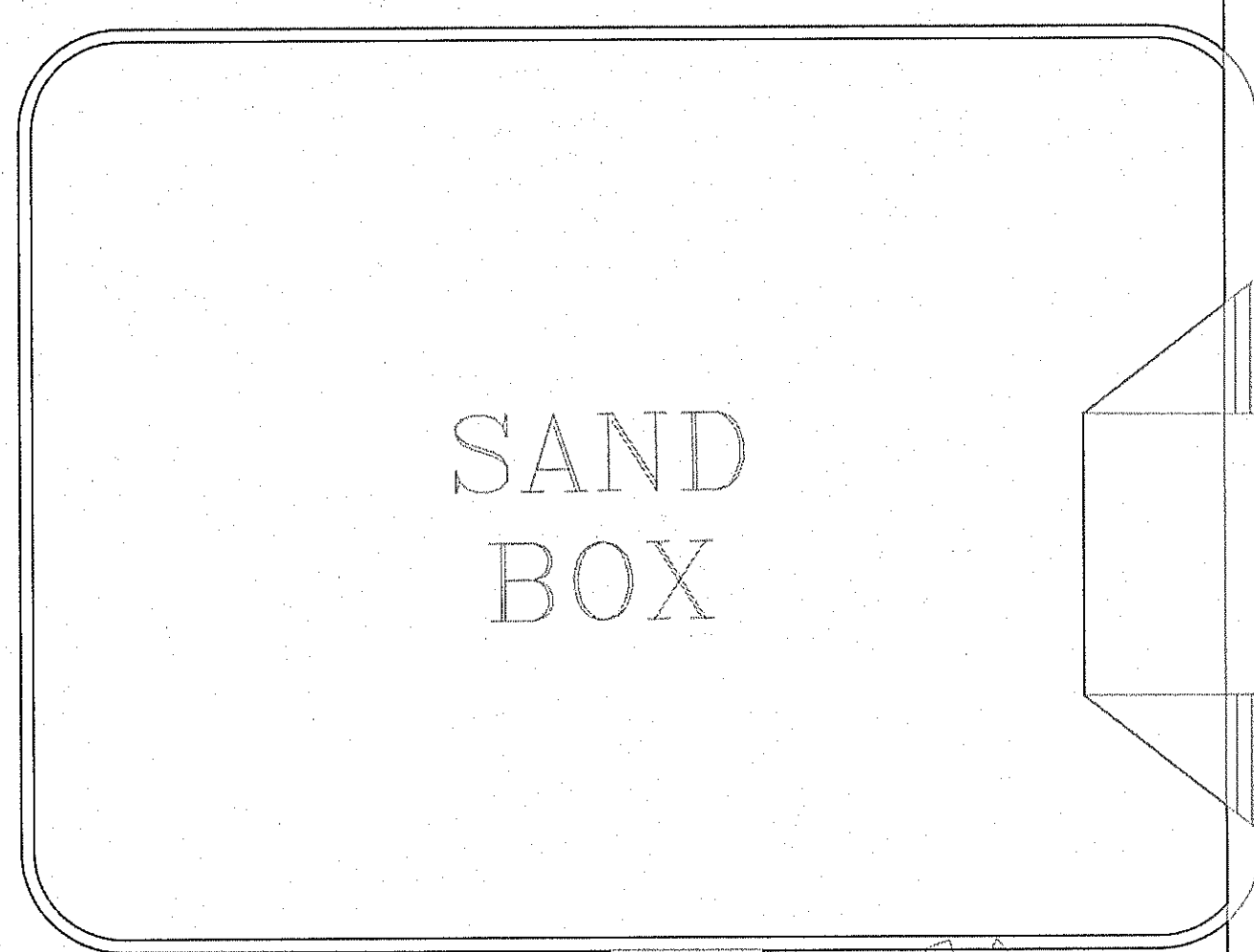
THIS CONCEPTUAL PLAN WAS BASED ON INFORMATION AVAILABLE TO US. PRIOR TO CONSTRUCTION, DETAILED SITE INFORMATION INCLUDING SITE DIMENSIONS, TOPOGRAPHY EXISTING UTILITIES, SOIL CONDITIONS, AND DRAINAGE SOLUTIONS SHOULD BE OBTAINED, EVALUATED, & UTILIZED IN THE FINAL DESIGN. PLEASE VERIFY ALL DIMENSIONS OF PLAY AREA, SIZE, ORIENTATION, AND LOCATION OF ALL EXISTING UTILITIES, EQUIPMENT, AND SITE FURNISHINGS PRIOR TO ORDERING. SLIDES SHOULD NOT FACE THE HOT AFTERNOON SUN.

CHOOSE A PROTECTIVE SURFACING MATERIAL THAT HAS A CRITICAL HEIGHT VALUE TO MEET THE MAXIMUM FALL HEIGHT FOR THE EQUIPMENT (REF. ASTM F1487 STANDARD CONSUMER SAFETY PERFORMANCE SPECIFICATION FOR PLAYGROUND EQUIPMENT FOR PUBLIC USE, SECTION 8 CURRENT REVISION).

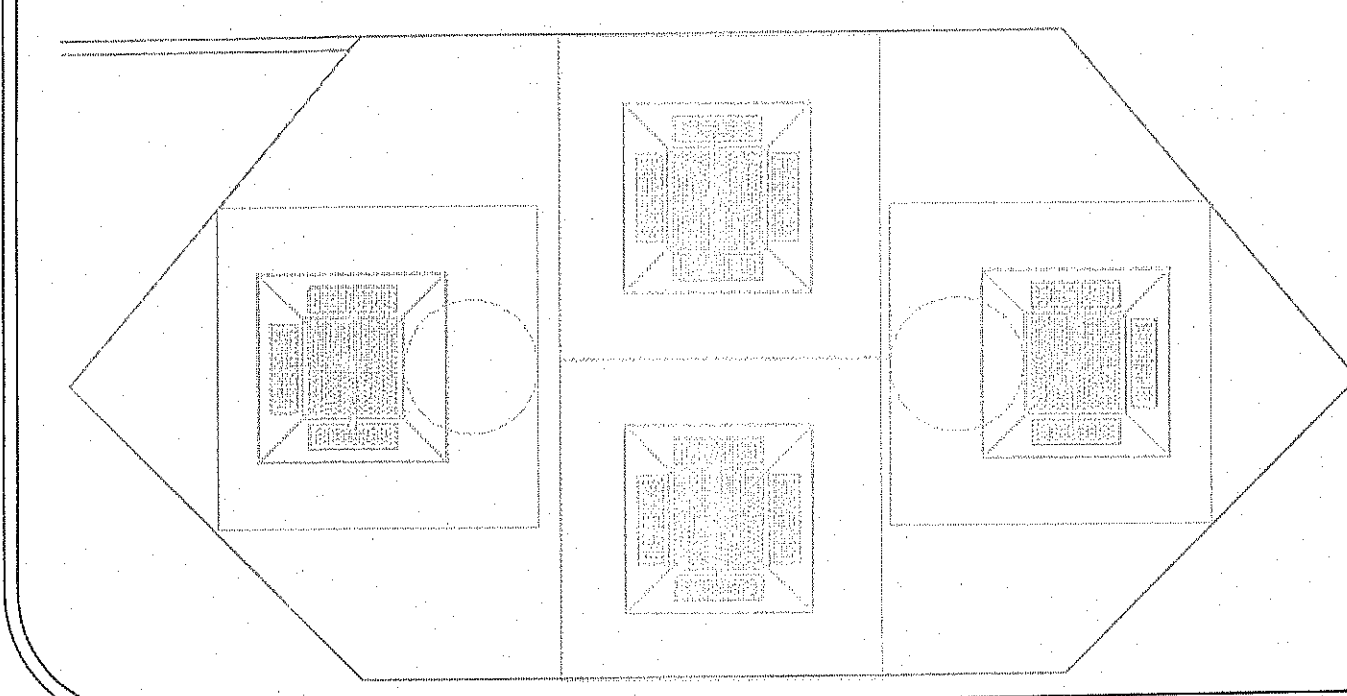


Final Approval

35' X 40' SHADE STRUCTURE



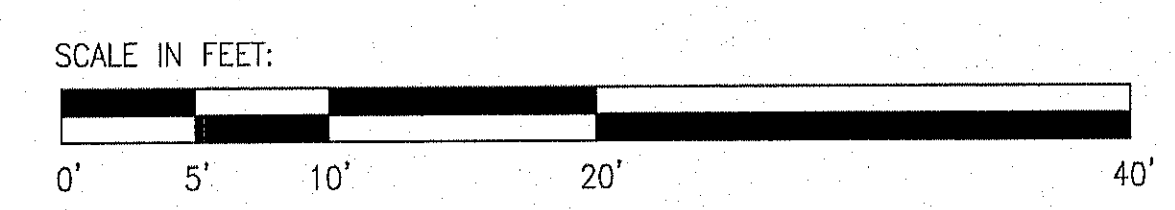
SAND BOX



TOTAL ELEVATED PLAY COMPONENTS	0	REQUIRED	0
TOTAL ELEVATED COMPONENTS ACCESSIBLE BY RAMP	0	REQUIRED	0
TOTAL ELEVATED COMPONENTS ACCESSIBLE BY TRANSFER	0	REQUIRED	0
TOTAL ACCESSIBLE GROUND LEVEL COMPONENTS SHOWN	14	REQUIRED	0
TOTAL DIFFERENT TYPES OF GROUND LEVEL COMPONENTS	10	REQUIRED	10

PARKS DEPARTMENT
REVIEWED BY *[Signature]* 12/02/2014

DESIGNED BY: SLA		
COPYRIGHT: 10/14/2014 EXERPLAY, INC. 12001 N HWY 14 CEDAR CREST, NM 87008 PH: 1-800-457-5444 FAX: 1-505-281-0155		
8/14/14	140286B	SLA
Date	Previous Drawing #	Initials

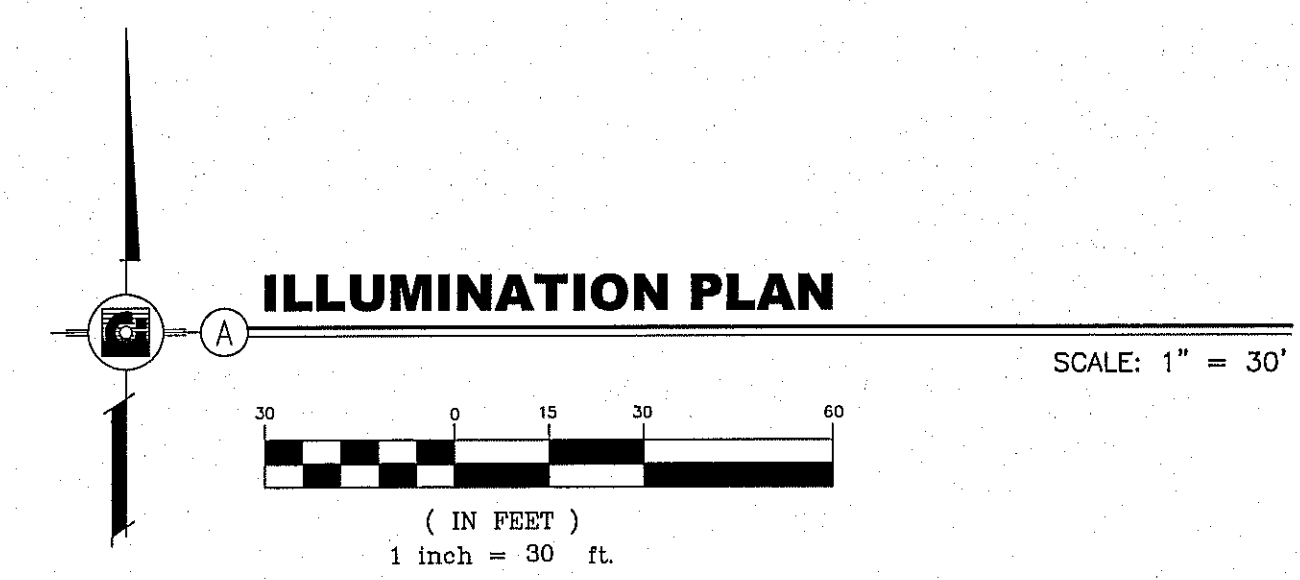
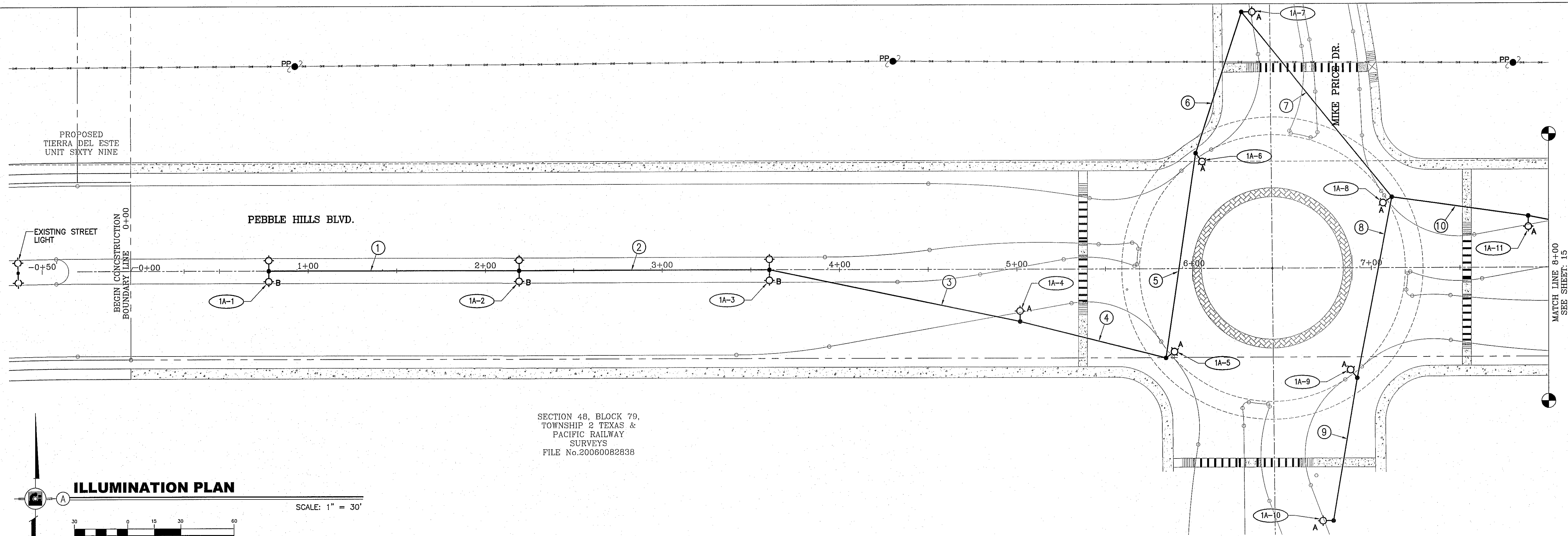


Tiere del Este 72 Playground
El Paso, TX

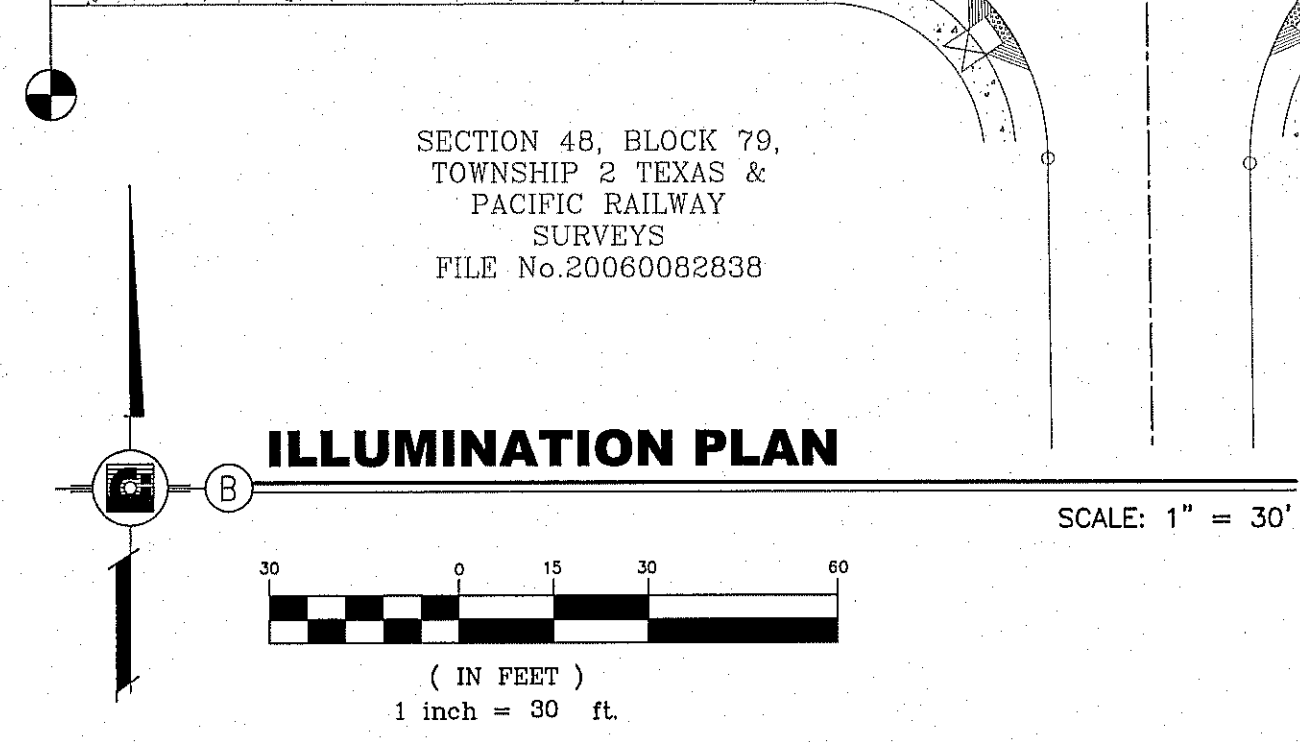
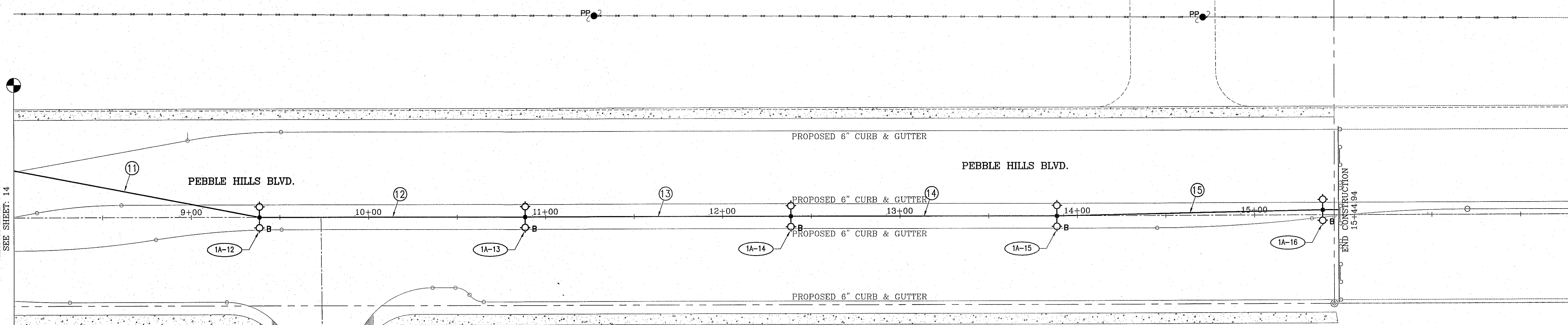
ExerPlay, Inc.
Nate Tierney

SYSTEM TYPE:
PlayBooster
DRAWING #:
140286C





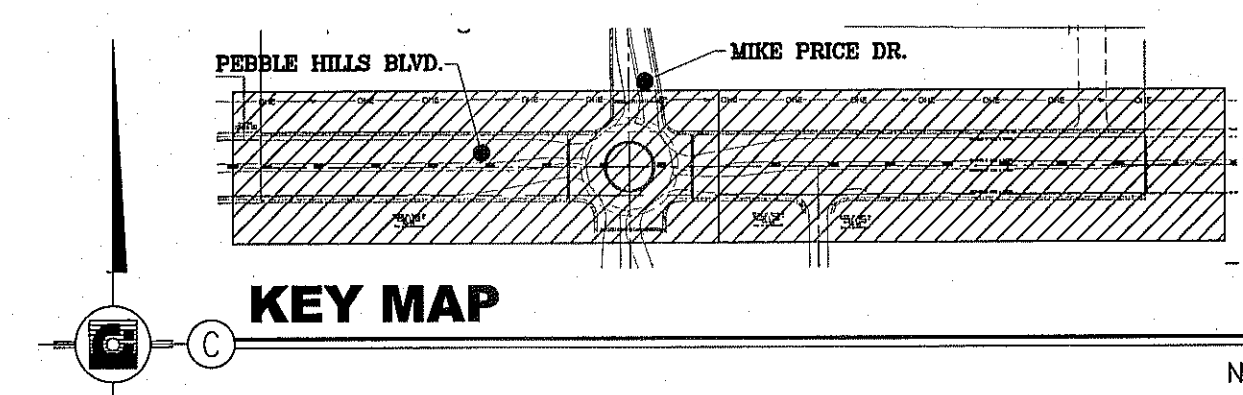
SECTION 48, BLOCK 79,
TOWNSHIP 2 TEXAS &
PACIFIC RAILWAY
SURVEYS
FILE No.20060082838



SECTION 48, BLOCK 79,
TOWNSHIP 2 TEXAS &
PACIFIC RAILWAY
SURVEYS
FILE No.20060082838

SECTION 48, BLOCK 79,
TOWNSHIP 2 TEXAS &
PACIFIC RAILWAY
SURVEYS
FILE No.20060082838

REFER TO SHEET 6 OF 7 FOR GENERAL NOTES,
ELECTRICAL LEGEND, LIGHT STANDARD ASSEMBLY
SCHEDULE AND TYPICAL TRENCH DETAIL.



Final Approval

GONZALO AGUILAR
PROFESSIONAL ENGINEER, INC.
REGISTRATION NUMBER: F-4190
481 B N. HESLER
PHONE: (915) 581-5822
FAX: (915) 581-2824
EMAIL: gonzaleng@aol.com

TIERRA DEL ESTE UNIT SEVENTY TWO

DATE	REVISIONS

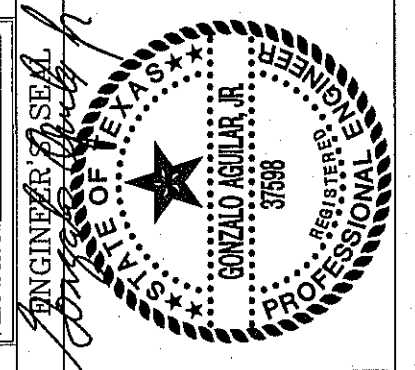
PROJECT NAME
TIERRA DEL ESTE UNIT SEVENTY TWO

BENCHMARK
CITY MONUMENT AT THE CENTERLINE INTERSECTION OF RALPH SEITZINGER DR. AND CALICENO PL. ELEVATION 4095.83

BEING PORTION OF SECTIONS 37 AND 48, BLOCK 79, TOWNSHIP 2, TEXAS AND PACIFIC RAILWAY CO. SURVEYS AND CITY OF EL PASO, EL PASO COUNTY, TEXAS CONTAINING: 97.551 ACRES

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

DATE: OCTOBER 2013
DESIGN BY: G.A.
INITIATED BY: A.H.V. A.M.
CHECKED BY: G.A.
JOB NO.: 112-08



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

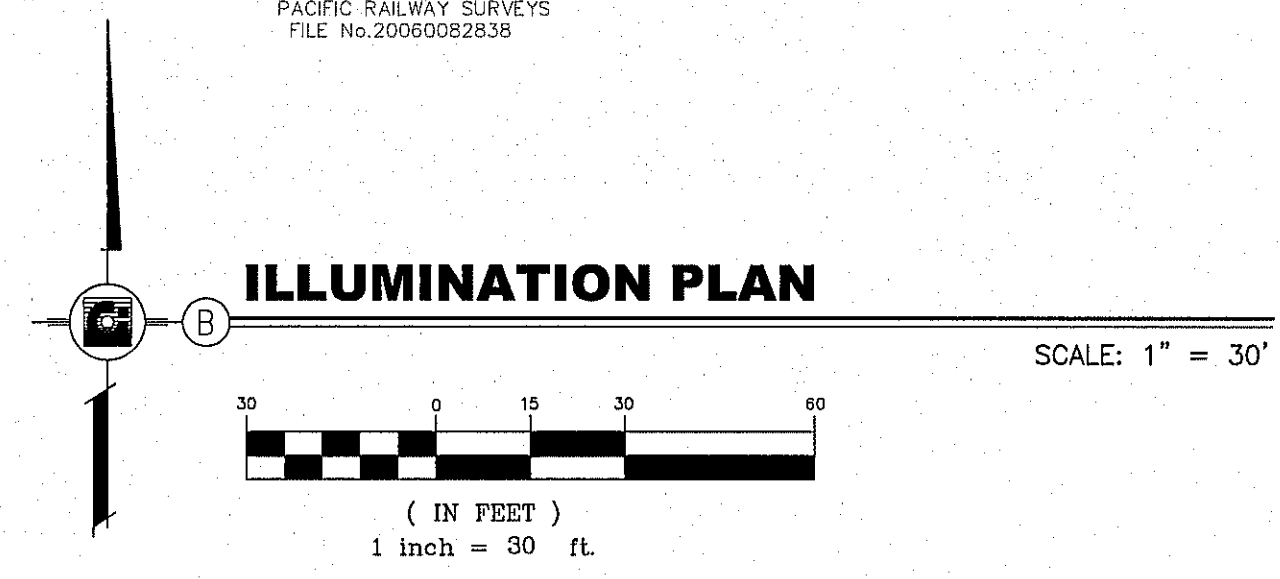
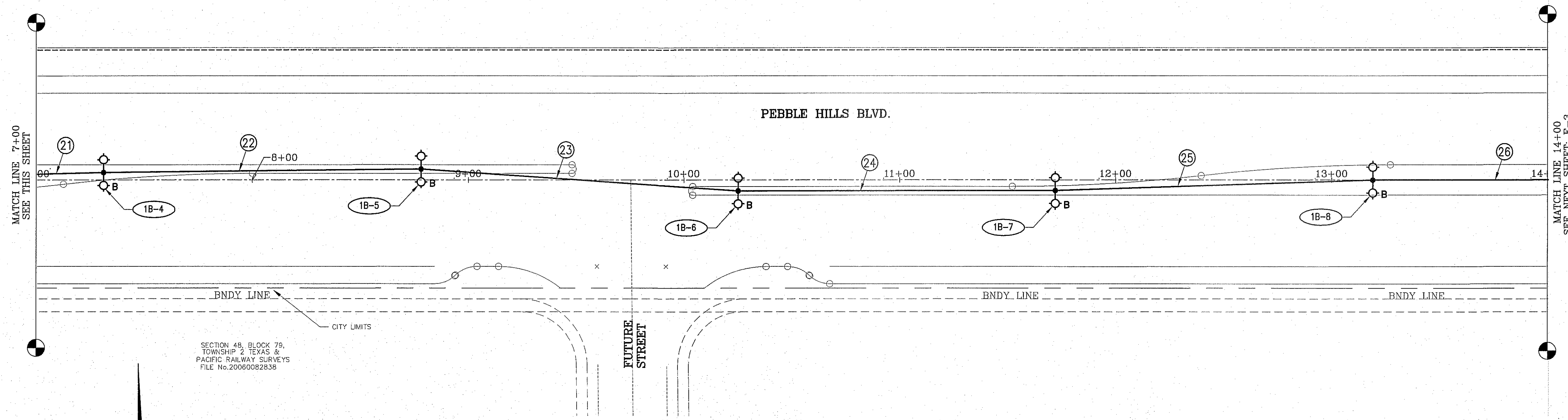
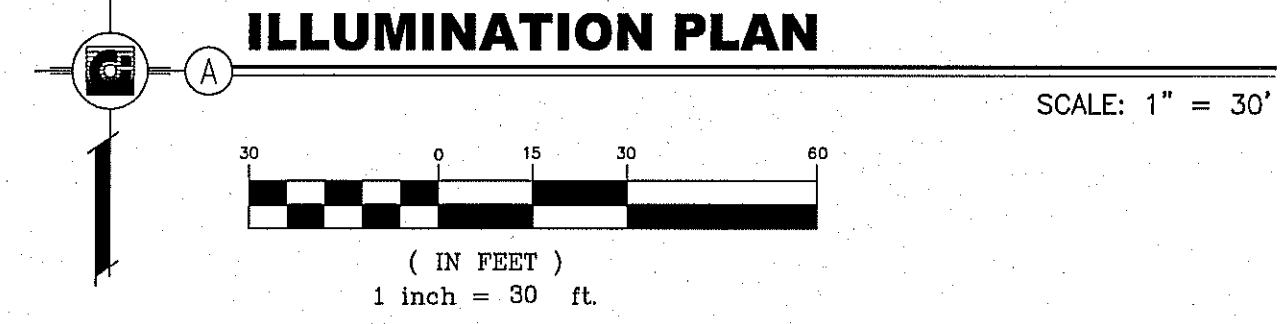
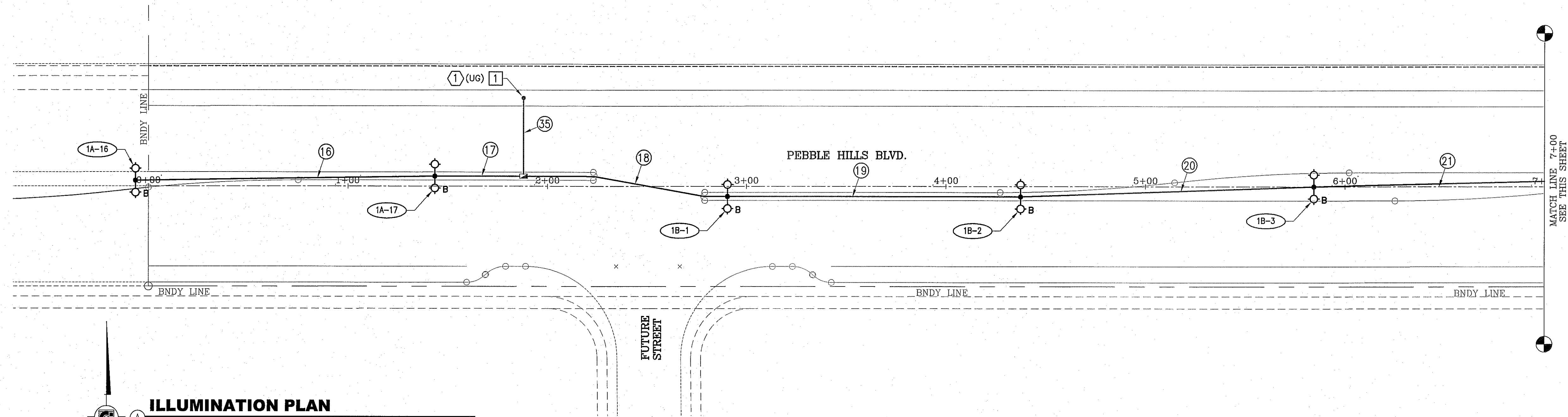


SHEET TITLE
ILLUMINATION PLAN
PEBBLE HILLS BLVD

START STATION
0+00
STATION TO END
15+44.94

E-1

SHT 1 OF 7

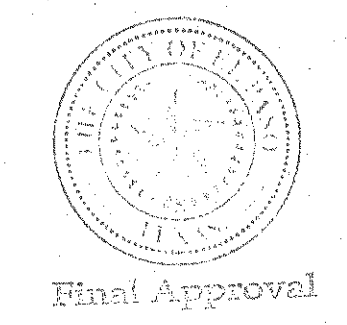
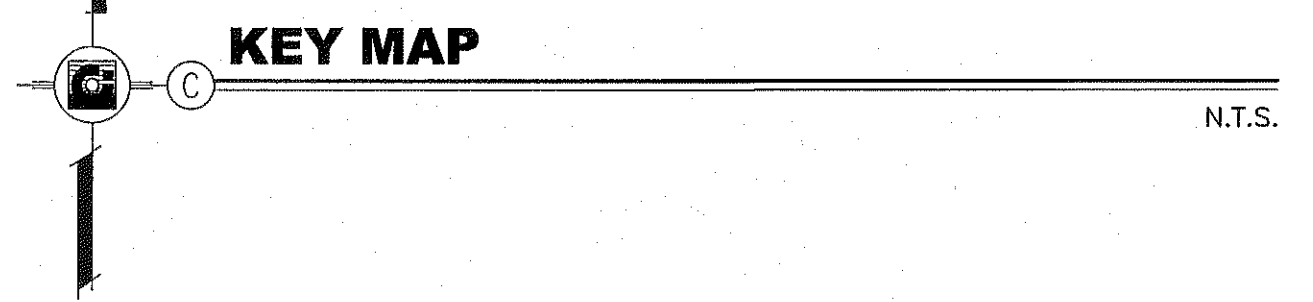
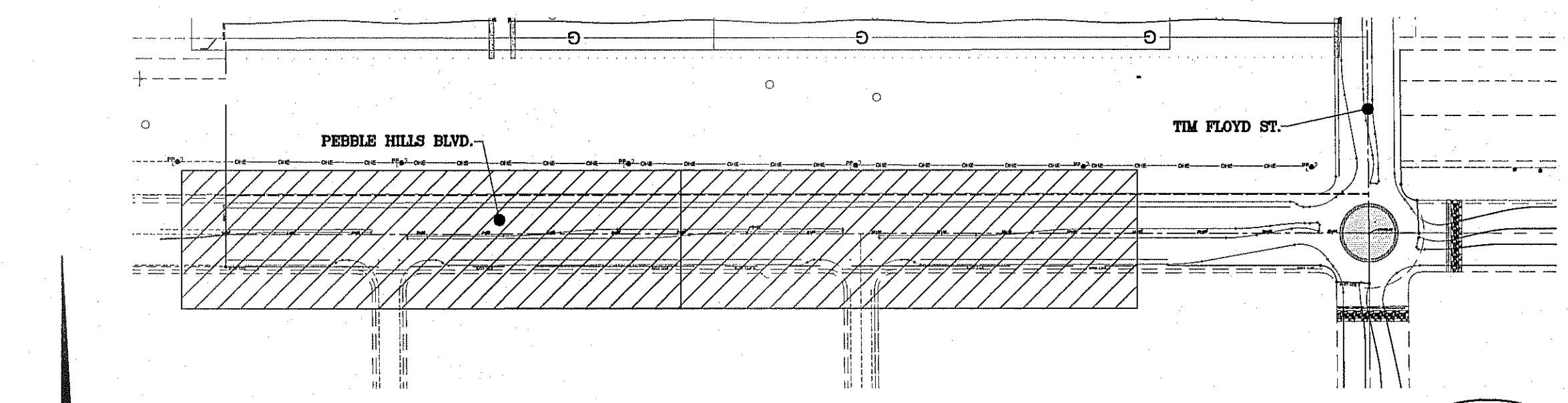


SECTION 48, BLOCK 79,
TOWNSHIP 2, TEXAS &
PACIFIC RAILWAY SURVEYS
FILE No. 20060082838

KEYED NOTES: THIS SHEET ONLY

- 1 HEIGHT OF GRANITE CONCRETE SERVICE SUPPORT POLE SHALL BE COORDINATED WITH EL PASO ELECTRIC TO PROVIDE THE REQUIRED CLEARANCES AND DISTANCES PER DSO1870. VERIFY PRIOR TO PURCHASE AND CUTTING OF SERVICE SUPPORT POLE.

REFER TO SHEET 6 OF 7 FOR GENERAL NOTES,
ELECTRICAL LEGEND, LIGHT STANDARD ASSEMBLY
SCHEDULE AND TYPICAL TRENCH DETAIL.



Final Approval

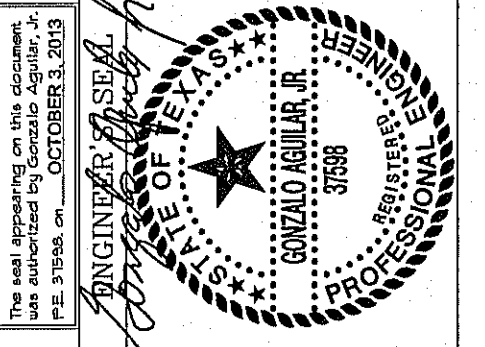
GONZALO AGUILAR
PROFESSIONAL ENGINEER, INC.
REGISTRATION NUMBER: F-4190
481 B N. RESSLER
Phone: (915) 581-5622
Fax: (915) 581-2824
email: gonzalo@aeol.com

BENCHMARK	
CITY MONUMENT AT THE CENTERLINE INTERSECTION OF RALPH SEITZINGER DR. AND GAUCENO PL.	ELEVATION 4055.66
DATE	REVISIONS

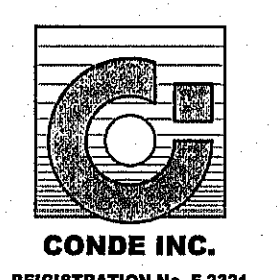
PROJECT NAME
TIERRA DEL ESTE UNIT 76
BEING PORTION OF SECTION 18, BLOCK 76,
AND PORTION OF SECTIONS 37 AND 48,
BLOCK 79, TOWNSHIP 2, TEXAS
AND PACIFIC RAILWAY Co. SURVEYS,
CITY OF EL PASO, EL PASO COUNTY, TEXAS
CONTAINING: 66.081 ACRES

SCALE
HORIZ: 1" = 30'

DATE: OCTOBER, 2013
DESIGN BY: G.A.
INITIATED BY: A.H.V. A.M.
CHECKED BY: G.A.
JOB NO.: 113-35



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

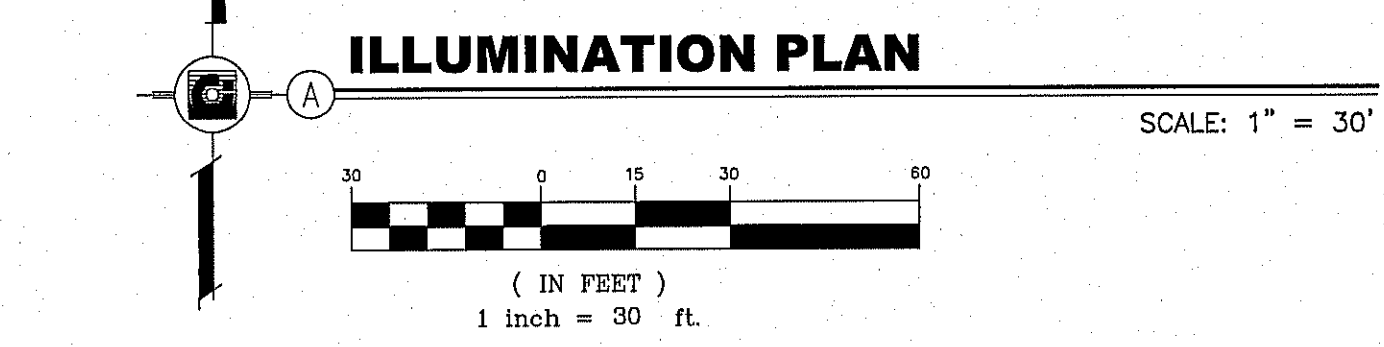
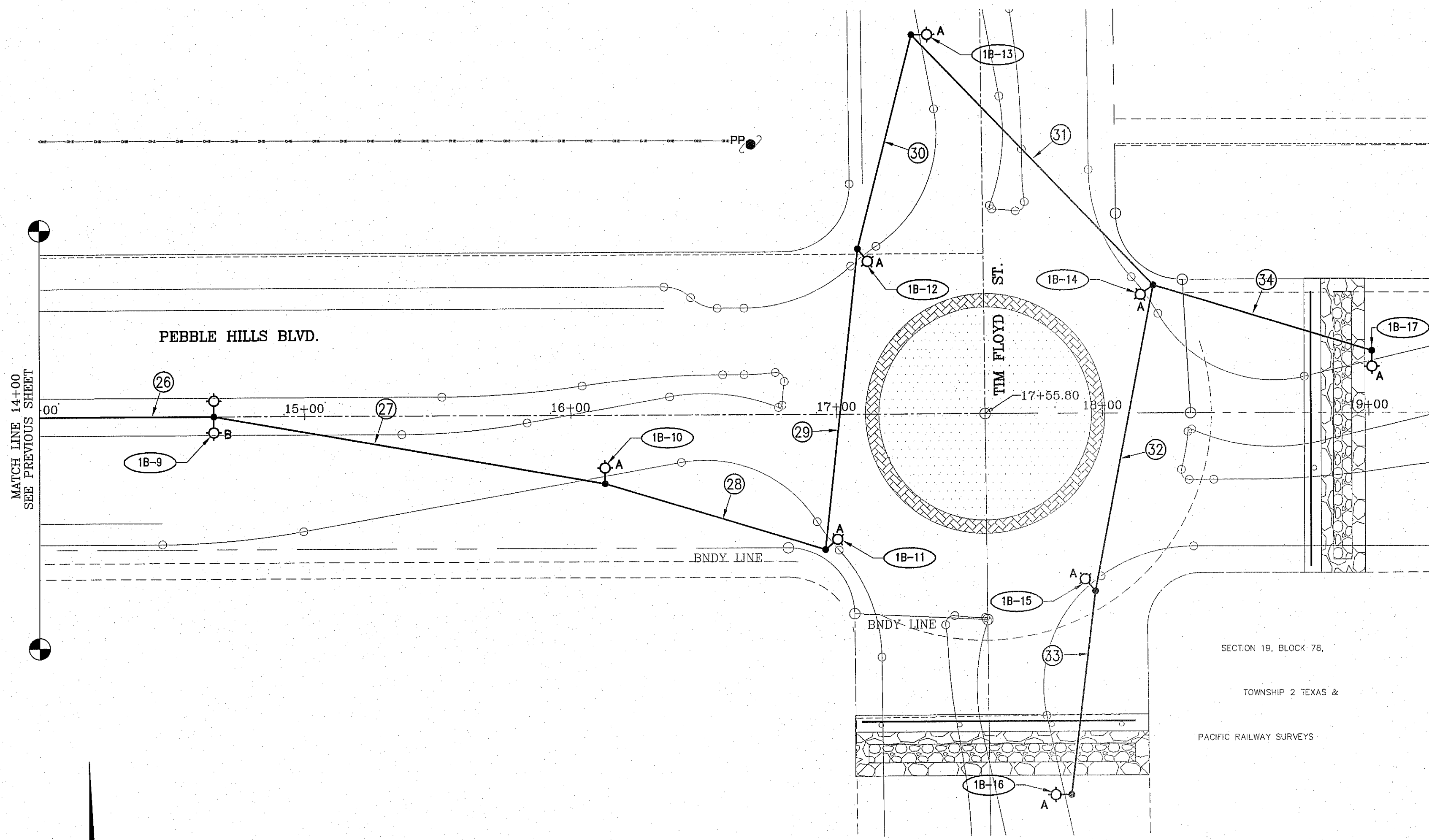


SHEET TITLE
ILLUMINATION PLAN
PEBBLE HILLS BLVD

START STATION
0+00 TO
STATION 14+00

E-2

SHT 2 OF 7



KEYED NOTES: THIS SHEET ONLY

1 HEIGHT OF GRANITE CONCRETE SERVICE SUPPORT POLE SHALL BE COORDINATED WITH EL PASO ELECTRIC TO PROVIDE THE REQUIRED CLEARANCES AND DISTANCES PER DSO1870. VERIFY PRIOR TO PURCHASE AND CUTTING OF SERVICE SUPPORT POLE.

1(1) = TYDOT TY A(240/480) 100(NS) SS(E) GC(O); SEE SHEET ED(4)-03; NO METER, NO SAFETY SWITCH, 2 EACH 30A-2P BRANCH BREAKERS, 100A-2P MAIN BREAKER

PEBBLE HILLS. SERVICE SOURCE (1)

LIGHT NO.	LOCATION		
	STATION	BASELINE	OFFSET
1A-1	0+78	PEBBLE HILLS BLVD	-
1A-2	2+19	PEBBLE HILLS BLVD	-
1A-3	3+60	PEBBLE HILLS BLVD	-
1A-4	5+02	PEBBLE HILLS BLVD	RT
1A-5	5+84	PEBBLE HILLS BLVD	RT
1A-6	6+02	PEBBLE HILLS BLVD	LT
1A-7	1+43	MIKE PRICE DR	LT
1A-8	7+07	PEBBLE HILLS BLVD	LT
1A-9	6+92	PEBBLE HILLS BLVD	RT
1A-10	-(1+42)	MIKE PRICE DR	RT
1A-11	7+89	PEBBLE HILLS BLVD	LT
1A-12	9+38	PEBBLE HILLS BLVD	-
1A-13	10+88	PEBBLE HILLS BLVD	-
1A-14	12+38	PEBBLE HILLS BLVD	-
1A-15	13+89	PEBBLE HILLS BLVD	-
1A-16	15+39	PEBBLE HILLS BLVD	LT
1A-17	1+43	PEBBLE HILLS BLVD	LT

PEBBLE HILLS. SERVICE SOURCE (1)

LIGHT NO.	LOCATION		
	STATION	BASELINE	OFFSET
1B-1	2+91	PEBBLE HILLS BLVD	RT
1B-2	4+37	PEBBLE HILLS BLVD	RT
1B-3	5+85	PEBBLE HILLS BLVD	-
1B-4	7+31	PEBBLE HILLS BLVD	LT
1B-5	8+78	PEBBLE HILLS BLVD	LT
1B-6	10+25	PEBBLE HILLS BLVD	RT
1B-7	11+72	PEBBLE HILLS BLVD	RT
1B-8	13+18	PEBBLE HILLS BLVD	-
1B-9	14+65	PEBBLE HILLS BLVD	-
1B-10	16+13	PEBBLE HILLS BLVD	RT
1B-11	16+96	PEBBLE HILLS BLVD	RT
1B-12	17+08	PEBBLE HILLS BLVD	LT
1B-13	1+42	TIM FLOYD ST	LT
1B-14	18+19	PEBBLE HILLS BLVD	LT
1B-15	17+97	PEBBLE HILLS BLVD	RT
1B-16	-(1+43)	TIM FLOYD ST	RT
1B-17	19+02	PEBBLE HILLS BLVD	LT

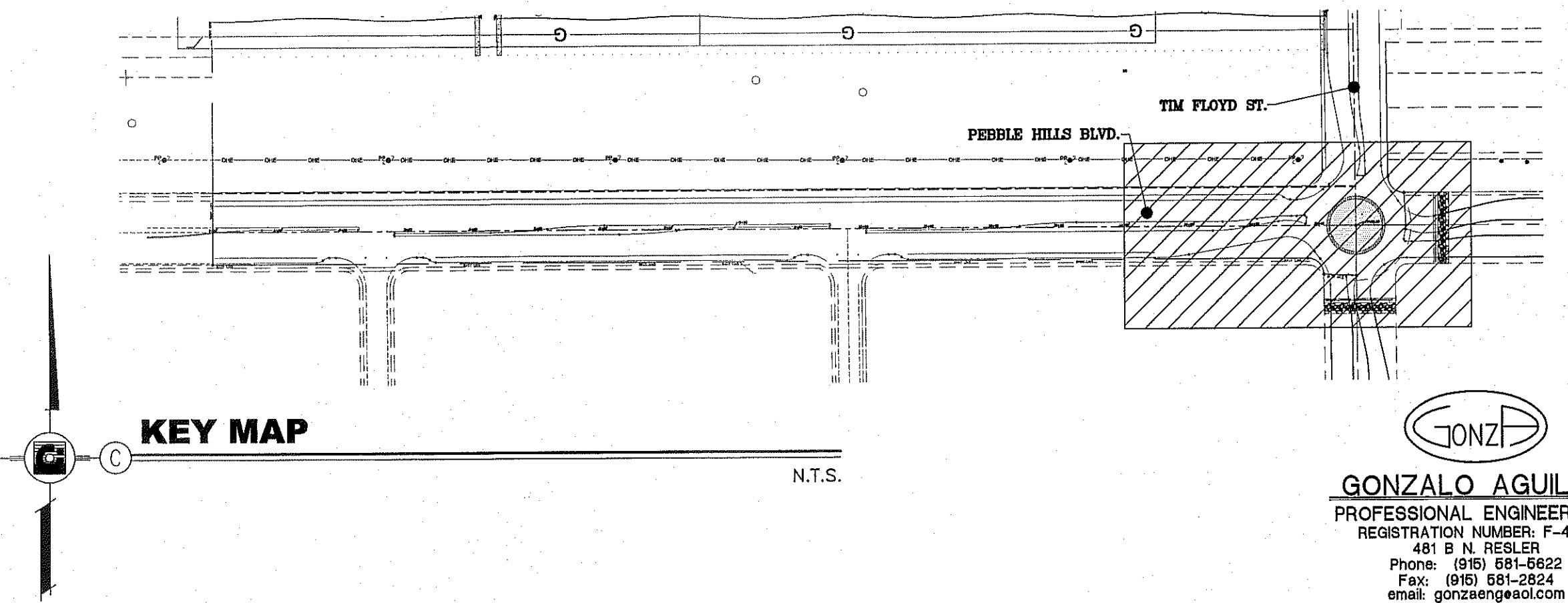
CONDUIT/CABLE SCHEDULE--SERVICE NO. (1)

RUN NO.	TRENCH BORE	PVC (SCHD 40) (2 INCH)		ESTIMATED LENGTH OF RUN (LINEAR FT.)
		#6 BARE	#6 XHHW	
1	141	141	2 @ 141	141
2	141	141	2 @ 141	141
3	145	145	2 @ 145	145
4	85	85	2 @ 85	85
5	115	115	2 @ 115	115
6	85	85	2 @ 85	85
7	135	135	2 @ 135	135
8	110	110	2 @ 110	110
9	80	80	2 @ 80	80
10	80	80	2 @ 80	80
11	153	153	2 @ 153	153
12	150	150	2 @ 150	150
13	150	150	2 @ 150	150
14	151	151	2 @ 151	151
15	150	150	2 @ 150	150
16	150	150	2 @ 150	150
17	45	45	2 @ 45	45
18	105	105	2 @ 105	105

CONDUIT/CABLE SCHEDULE--SERVICE NO. (1)

RUN NO.	TRENCH BORE	PVC (SCHD 40) (2 INCH)		ESTIMATED LENGTH OF RUN (LINEAR FT.)
		#6 BARE	#6 XHHW	
19	146	146	2 @ 146	146
20	148	148	2 @ 148	148
21	146	146	2 @ 146	146
22	147	147	2 @ 147	147
23	148	148	2 @ 148	148
24	147	147	2 @ 147	147
25	146	146	2 @ 146	146
26	147	147	2 @ 147	147
27	150	150	2 @ 150	150
28	88	88	2 @ 88	88
29	115	115	2 @ 115	115
30	83	83	2 @ 83	83
31	130	130	2 @ 130	130
32	117	117	2 @ 117	117
33	77	77	2 @ 77	77
34	86	86	2 @ 86	86
35	40	40	4 @ 40	40

REFER TO SHEET 6 OF 7 FOR GENERAL NOTES, ELECTRICAL LEGEND, LIGHT STANDARD ASSEMBLY SCHEDULE AND TYPICAL TRENCH DETAIL.



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CONDE INC.
ENGINEERING / PLANNING
SURVEYING / GPS
6080 SURETY DR. STE. 100
EL PASO, TEXAS 79905
PHONE: (915) 582-0283
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CONDE INC.
REGISTRATION No. F-2321

SHEET TITLE
ILLUMINATION PLAN
PEBBLE HILLS BLVD

STATION 14+00 TO END STATION 17+55.80

E-3

SHT 3 OF 7

TIERRA DEL ESTE UNIT SEVENTY SIX

PROJECT NAME
TIERRA DEL ESTE UNIT 76
BEING PORTION OF SECTION 18, BLOCK 78, AND PORTION OF SECTIONS 37 AND 48, BLOCK 79, TOWNSHIP 2, TEXAS AND PACIFIC RAILWAY CO. SURVEYS. CITY OF EL PASO, EL PASO COUNTY, TEXAS CONTAINING: 86.091 ACRES

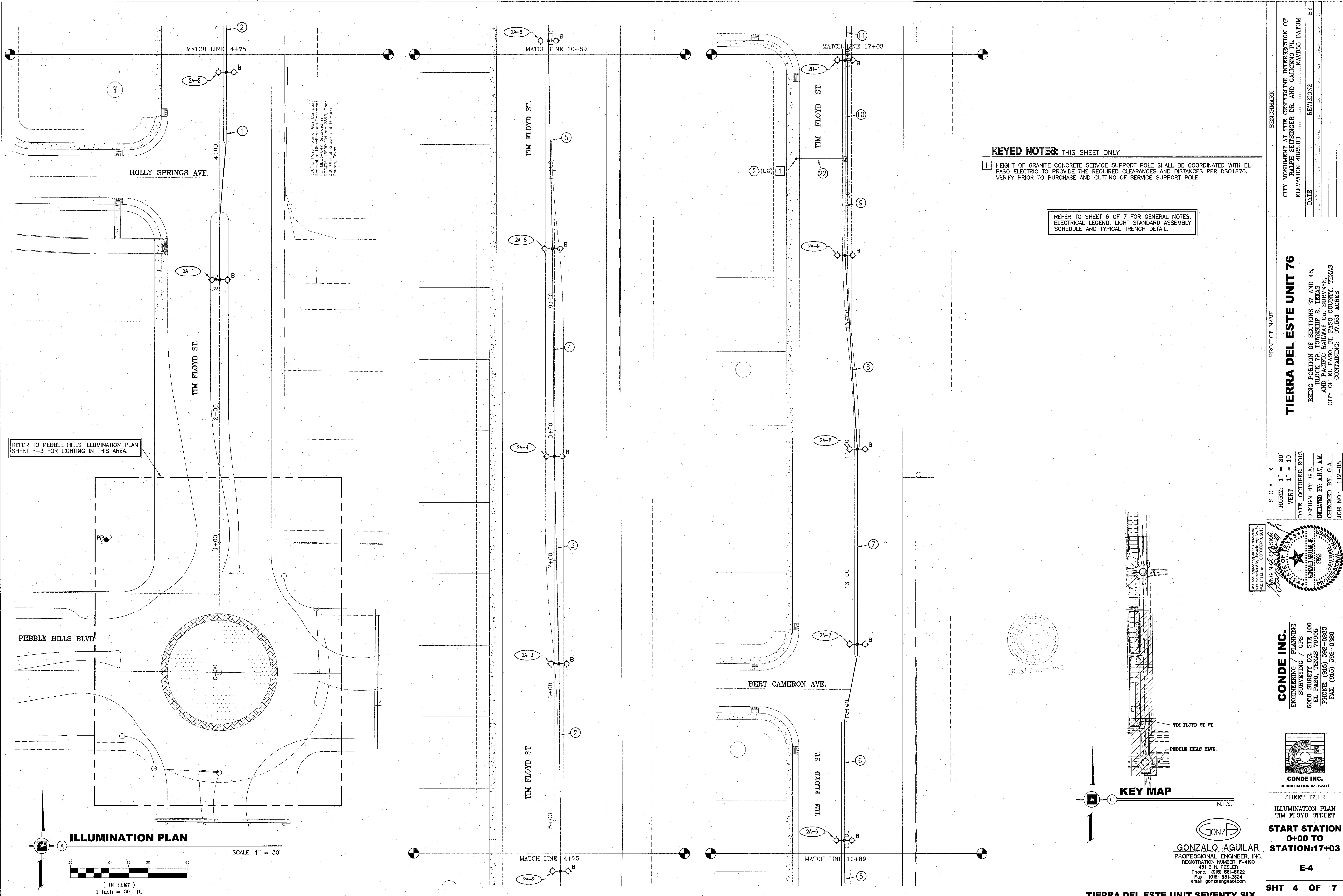
BENCHMARK
CITY MONUMENT AT THE CENTERLINE INTERSECTION OF RALPH SEIFINGER DR. AND GALICIANO PL. ELEVATION 4055.65

DATE
OCTOBER 2013

DESIGN BY: G.A.
INITIATED BY: A.H.V. A.M.
CHECKED BY: G.A.
JOB NO.: 113-25

SCALE
HORIZ: 1" = 30'

REVISIONS



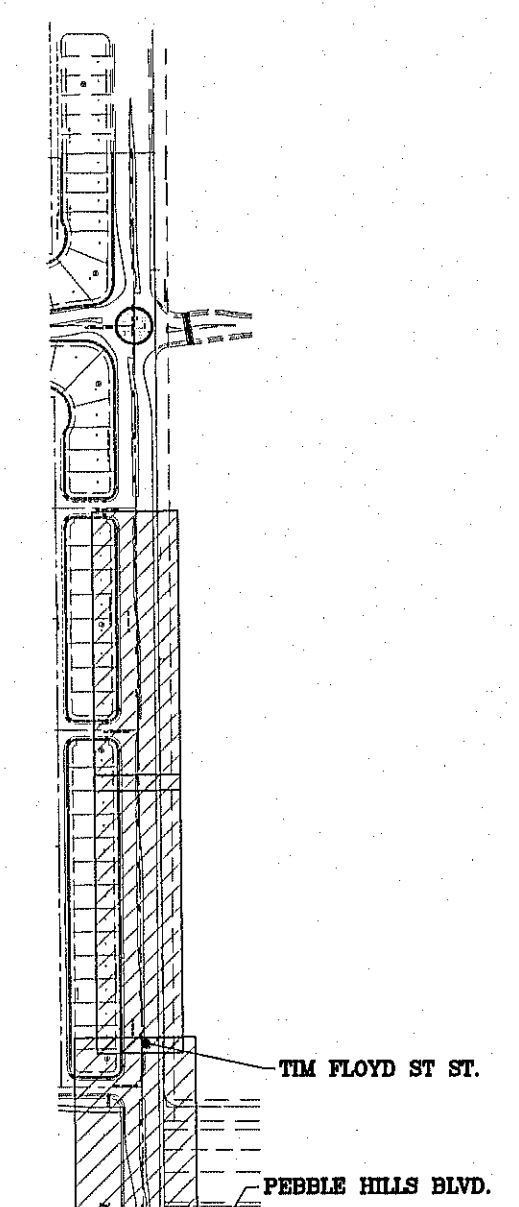
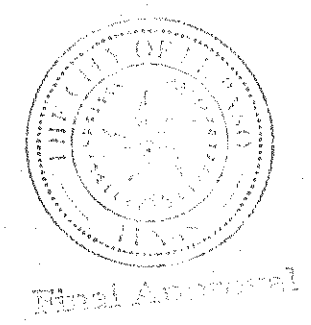
REFER TO PEBBLE HILLS ILLUMINATION PLAN SHEET E-3 FOR LIGHTING IN THIS AREA.

300' El Paso Natural Gas Company No. WERS-047 Recorded in Survey Map No. 100-100-000000 Official Records of El Paso County, Texas

KEYED NOTES: THIS SHEET ONLY
 1 HEIGHT OF GRANITE CONCRETE SERVICE SUPPORT POLE SHALL BE COORDINATED WITH EL PASO ELECTRIC TO PROVIDE THE REQUIRED CLEARANCES AND DISTANCES PER DS01870. VERIFY PRIOR TO PURCHASE AND CUTTING OF SERVICE SUPPORT POLE.

REFER TO SHEET 6 OF 7 FOR GENERAL NOTES, ELECTRICAL LEGEND, LIGHT STANDARD ASSEMBLY SCHEDULE AND TYPICAL TRENCH DETAIL.

ENGINEER SEAL
 GONZALO AGUILAR
 PROFESSIONAL ENGINEER
 REGISTRATION NO. F-4190



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

SCALE
 HORIZ: 1" = 30'
 VERT: 1" = 10'
 DATE: OCTOBER 2013
 DESIGN BY: G.A.
 INITIATED BY: A.H.V. A.M.
 CHECKED BY: G.A.
 JOB NO.: 112-08

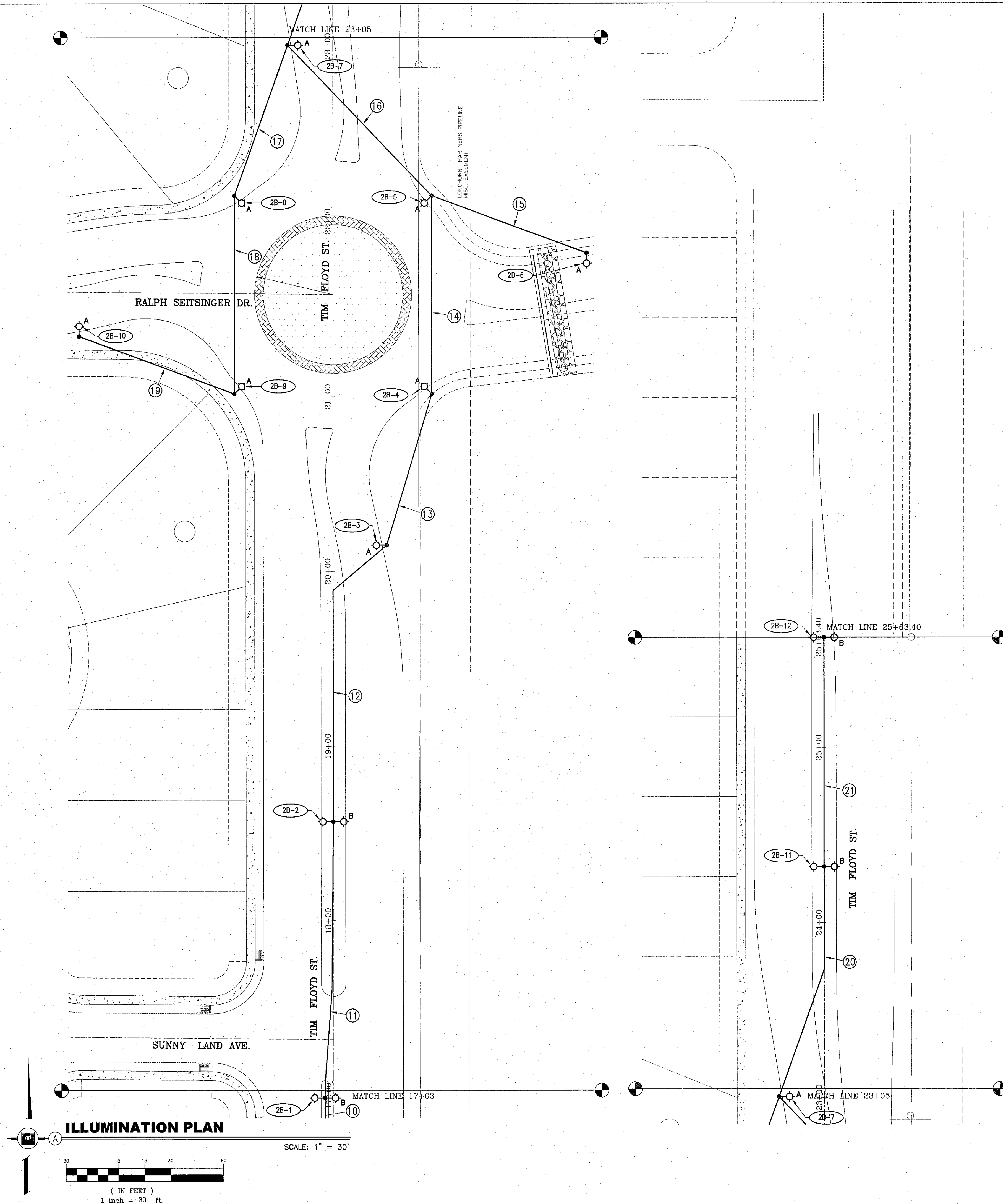
PROJECT NAME
TIERRA DEL ESTE UNIT 76
 BEING PORTION OF SECTIONS 37 AND 48,
 BLOCK 79, TOWNSHIP 2, TEXAS
 AND PACIFIC RAILWAY CO. SURVEYS,
 CITY OF EL PASO, EL PASO COUNTY, TEXAS
 CONTAINING: 97.551 ACRES

DATE	REVISIONS	BY

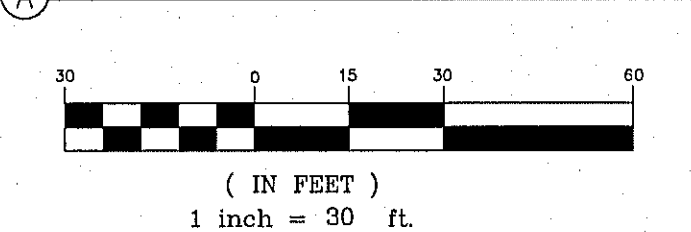
CONDE INC.
 REGISTRATION No. F-2321
 SHEET TITLE
 ILLUMINATION PLAN
 TIM FLOYD STREET
START STATION
 0+00 TO
STATION: 17+03
E-4
SHT 4 OF 7

BENCHMARK

CITY MONUMENT AT THE CENTERLINE INTERSECTION OF RALPH SEITSINGER DR. AND GALICENO PL. ELEVATION 4025.83 NAVD88 DATUM



ILLUMINATION PLAN



SCALE: 1" = 30'

1(2) = TXDOT TY A(240/480) 100(NS) SS(E) GC(O); SEE SHEET ED(4)-03; NO METER, NO SAFETY SWITCH, 2 EACH 30A-2P BRANCH BREAKERS, 100A-2P MAIN BREAKER

TIM FLOYD ST. SERVICE SOURCE (2)			
LIGHT NO.	LOCATION		
	STATION	BASELINE	OFFSET
2A-1	3+02	TIM FLOYD ST	-
2A-2	4+62	TIM FLOYD ST	RT
2A-3	6+20	TIM FLOYD ST	RT
2A-4	7+80	TIM FLOYD ST	-
2A-5	9+40	TIM FLOYD ST	LT
2A-6	11+00	TIM FLOYD ST	LT
2A-7	12+50	TIM FLOYD ST	RT
2A-8	14+00	TIM FLOYD ST	RT
2A-9	15+49	TIM FLOYD ST	LT

TIM FLOYD ST. SERVICE SOURCE (2)			
LIGHT NO.	LOCATION		
	STATION	BASELINE	OFFSET
2B-1	16+99	TIM FLOYD ST	LT
2B-2	18+57	TIM FLOYD ST	-
2B-3	20+15	TIM FLOYD ST	RT
2B-4	21+02	TIM FLOYD ST	RT
2B-5	22+14	TIM FLOYD ST	RT
2B-6	1+45	RALPH SEITSINGER DR	LT
2B-7	23+00	TIM FLOYD ST	LT
2B-8	22+14	TIM FLOYD ST	LT
2B-9	21+02	TIM FLOYD ST	LT
2B-10	-(1+45)	RALPH SEITSINGER DR	RT
2B-11	24+32	TIM FLOYD ST	-
2B-12	25+63	TIM FLOYD ST	-

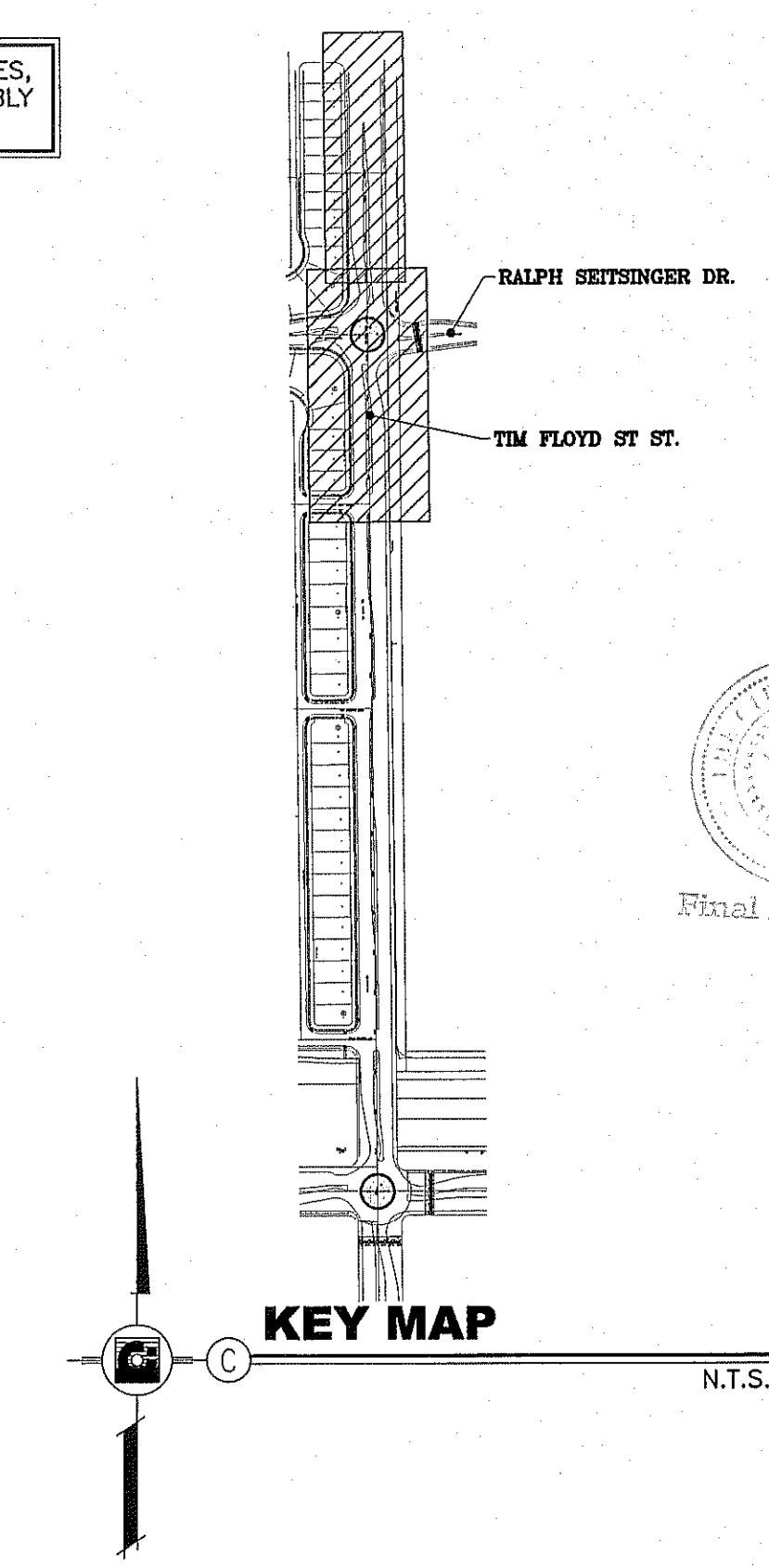
CONDUIT/CABLE SCHEDULE--SERVICE NO. (2)					
RUN NO.	(PVC) (SCHD 40) (2 INCH)		CONDUCTORS QUANTITY & LENGTH		ESTIMATED LENGTH OF RUN (LINEAR FT.)
	TRENCH	BORE	#6 BARE	#6 XHHW	
1	160	-	160	2 @ 160	160
2	158	-	158	2 @ 158	158
3	160	-	160	2 @ 160	160
4	160	-	160	2 @ 160	160
5	160	-	160	2 @ 160	160
6	150	-	150	2 @ 150	150
7	150	-	150	2 @ 150	150
8	149	-	149	2 @ 149	149
9	75	-	75	2 @ 75	75
10	75	-	75	2 @ 75	75
11	158	-	158	2 @ 158	158
12	174	-	174	2 @ 174	174
13	90	-	90	2 @ 90	90

CONDUIT/CABLE SCHEDULE--SERVICE NO. (2)					
RUN NO.	(PVC) (SCHD 40) (2 INCH)		CONDUCTORS QUANTITY & LENGTH		ESTIMATED LENGTH OF RUN (LINEAR FT.)
	TRENCH	BORE	#6 BARE	#6 XHHW	
14	114	-	114	2 @ 114	114
15	95	-	95	2 @ 95	95
16	120	-	120	2 @ 120	120
17	93	-	93	2 @ 93	93
18	115	-	115	2 @ 115	115
19	95	-	95	2 @ 95	95
20	138	-	138	2 @ 138	138
21	132	-	132	2 @ 132	132
22	40	-	40	4 @ 40	40

KEYED NOTES: THIS SHEET ONLY

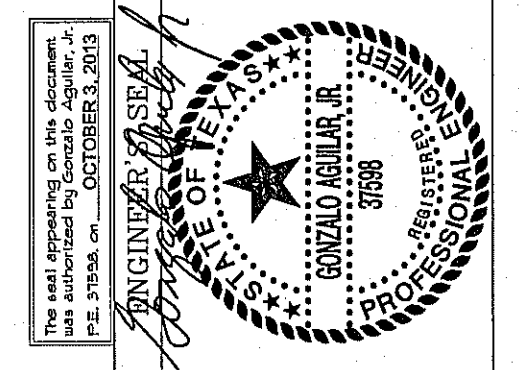
- 1 HEIGHT OF GRANITE CONCRETE SERVICE SUPPORT POLE SHALL BE COORDINATED WITH EL PASO ELECTRIC TO PROVIDE THE REQUIRED CLEARANCES AND DISTANCES PER DS01870. VERIFY PRIOR TO PURCHASE AND CUTTING OF SERVICE SUPPORT POLE.

REFER TO SHEET 6 OF 7 FOR GENERAL NOTES, ELECTRICAL LEGEND, LIGHT STANDARD ASSEMBLY SCHEDULE AND TYPICAL TRENCH DETAIL.



KEY MAP

Final Approval



CONDE INC.
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EL PASO, TEXAS 79905
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SHEET TITLE
ILLUMINATION PLAN
TIM FLOYD STREET
**STATION 17+03
TO END STATION
25+63.40**

E-5
SHT 5 OF 7

GONZALO AGUILAR
PROFESSIONAL ENGINEER, INC.
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Phone: (602) 581-2822
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TIERRA DEL ESTE UNIT SEVENTY SIX

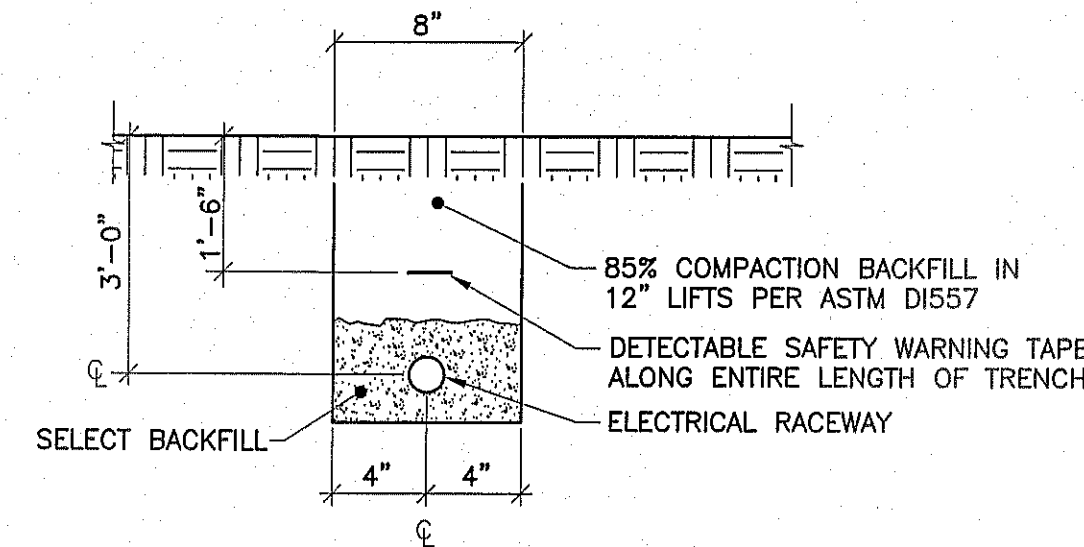
BENCHMARK
CITY MONUMENT AT THE CENTERLINE INTERSECTION OF RALPH SEITSINGER DR. AND GALICENO PL. ELEVATION 4025.63NAVD83 DATUM

PROJECT NAME
TIERRA DEL ESTE UNIT 76
BENING PORTION OF SECTIONS 37 AND 48, BLOCK 79, TOWNSHIP 2, TEXAS, AND PACIFIC RAILWAY CO. SURVEYS, CITY OF EL PASO, EL PASO COUNTY, TEXAS CONTAINING: 97.551 ACRES

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

DATE: OCTOBER 2013
DESIGN BY: G.A.
INITIATED BY: A.H.V. A.M.
CHECKED BY: G.A.
JOB NO.: 112-08

LIGHT STANDARD ASSEMBLY SCHEDULE						
TYPE	SYMBOL	LAMPS	STEEL POLE		LUMINAIRE	
			MNTG. HGT.	DESCRIPTION	QTY.	DESCRIPTION
A		1-250W HPS	30'	FLUTED STEEL POLE, TRANSFORMER BASE, MOSS GREEN FINISH, BREAK AWAY FUSES (2) [1][2]	1	TXDOT APPROVED ROADWAY LUMINAIRE, DARK SKY COMPLIANT, 480 VOLTS, WITH LEVELING BUBBLE.
B		2-250W HPS	30'	FLUTED STEEL POLE, TRANSFORMER BASE, MOSS GREEN FINISH, BREAK AWAY FUSES (4) [1][2]	2	TXDOT APPROVED ROADWAY LUMINAIRE, DARK SKY COMPLIANT, 480 VOLTS, WITH LEVELING BUBBLE.



TYPICAL TRENCH DETAIL

N.T.S.

ELECTRICAL LEGEND	
SYMBOL	DESCRIPTION
	NEW LIGHT STANDARD ASSEMBLY AS SCHEDULED ON NEW CONCRETE BASE
	DENOTES NEW LIGHT STANDARD ASSEMBLY NUMBER. SEE SERVICE SOURCE TABLES.
	DENOTES NEW CONDUIT/CABLE RUN. SEE CONDUIT/CABLE SCHEDULES
	DENOTES NEW ELECTRICAL SERVICE POINT NUMBER
	DENOTES KEYED NOTE
	NEW UNDERGROUND ELECTRICAL (TRENCHED)
	NEW UNDERGROUND ELECTRICAL (BORED)
	NEW GROUND BOX PER CITY OF EL PASO STREETS DEPARTMENT STANDARDS (TXDOT TYPE "A") LABELED "ILLUMINATION"

KEYED NOTES: THIS SHEET ONLY

- 1 PROVIDE 8' ARM WITH DECORATIVE ARM SUPPORT WITH MOSS GREEN FINISH TO MATCH ARMS AND SUPPORTS USED ON LEE TREVINO. COORDINATE AND VERIFY WITH CITY OF EL PASO STREETS DEPT. PRIOR TO SUBMITTING SHOP DRAWINGS AND PRIOR TO PURCHASE.
- 2 POLES, ANCHOR BOLTS AND ANCHOR BOLT CIRCLES SHALL MATCH THE GREEN FLUTED STEEL POLES USED ON LEE TREVINO. COORDINATE AND VERIFY WITH CITY OF EL PASO STREETS DEPT. PRIOR TO SUBMITTING SHOP DRAWINGS AND PRIOR TO PURCHASE.

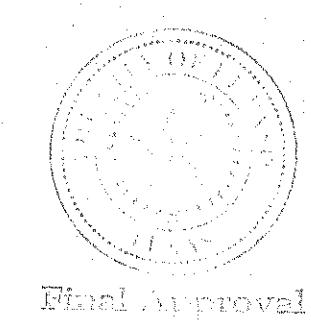
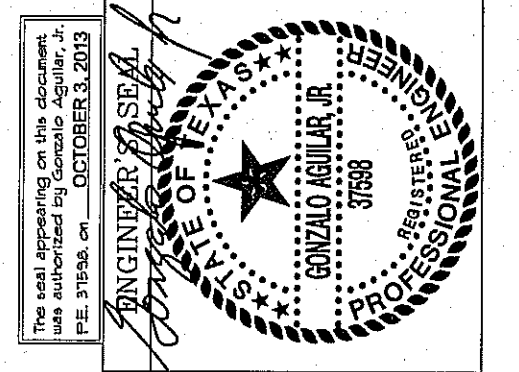
GENERAL ELECTRICAL NOTES: APPLICABLE TO ALL ELECTRICAL SHEETS

1. CONTRACTOR SHALL COORDINATE THE EXACT LOCATIONS OF ELECTRICAL SERVICE WITH E.P.E.Co. SERVICE SHALL COMPLY WITH THE REQUIREMENTS OF THE LATEST VERSION OF THE E.P.E.Co. ELECTRICAL SERVICE REQUIREMENTS BOOK. ANY EQUIPMENT THAT IS STATED IN THE E.P.E.Co. REQUIREMENTS TO BE PROVIDED AND INSTALLED BY THE OWNER, SHALL BE PROVIDED AND INSTALLED BY THIS CONTRACTOR UNDER THIS CONTRACT.
2. CITY STANDARDS: ALL WORK, MATERIALS AND EQUIPMENT SHALL BE IN ACCORDANCE WITH THE CITY OF EL PASO, TEXAS CITY STANDARDS SPECIFICATIONS; STREETS DEPARTMENT, STREET ILLUMINATION.
3. ALL TRENCHING AND CONDUIT SHALL BE INSTALLED WITHIN CITY OF EL PASO RIGHT-OF-WAYS. TRENCHING AND CONDUIT SHALL NOT BE INSTALLED WITHIN PRIVATE PROPERTY. MINIMUM BURIAL DEPTH OF CONDUITS SHALL BE 24" FROM TOP OF FINISHED GRADE OR FINISHED SURFACE TO TOP OF CONDUITS.
4. USE SONOTUBE FOR FORMING POLE CONCRETE BASES. SONOTUBE SHALL BE LEFT IN PLACE. USE 2 SACK CEMENT TO BACKFILL HOLES. TOP OF BASES SHALL BE 4" ABOVE FINAL FINISHED GRADE.
5. ALL EXPOSED CONDUIT SHALL BE RIGID GALVANIZED STEEL. PROVIDE TRANSITION ELBOW FROM PVC TO RIGID STEEL BELOW GRADE. WRAP STEEL CONDUIT IN CONTACT WITH EARTH TO PREVENT CORROSION.
6. ALL GROUND RODS SHALL BE 5/8"x10'-0" COPPER CLAD.
7. SPLICES SHALL ONLY BE ALLOWED IN GROUND BOXES OR HAND HOLES.

BENCHMARK	
CITY MONUMENT AT THE CENTERLINE INTERSECTION OF RALPH SETTSINGER DR. AND GARCENO PL.	ELEVATION 4025.83
DATE	REVISIONS

PROJECT NAME
TIERRA DEL ESTE UNIT 76
 BEING PORTION OF SECTIONS 37 AND 48, BLOCK 79, TOWNSHIP 2, TEXAS AND PACIFIC RAILWAY Co. SURVEYS, CITY OF EL PASO, EL PASO COUNTY, TEXAS CONTAINING: 97.561 ACRES

SCALE	
HORIZ:	N/A
VERT:	N/A
DATE:	OCTOBER 2015
DESIGN BY:	G.A.
INITIATED BY:	A.H.V. A.M.
CHECKED BY:	G.A.
JOB NO.:	112-08



CONDE INC.
 ENGINEERING / PLANNING
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 SHEET TITLE

ELECTRICAL DETAILS
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