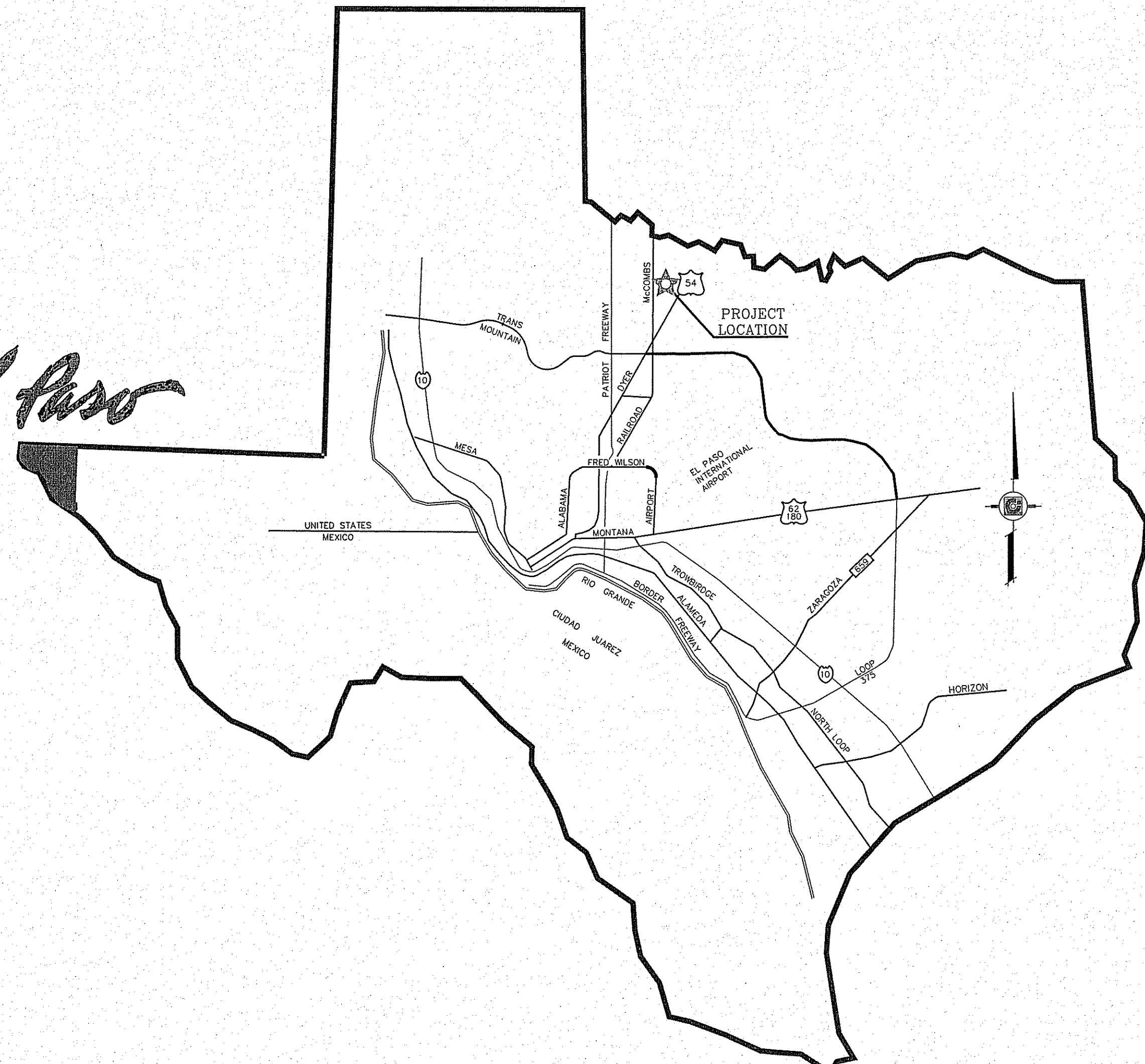
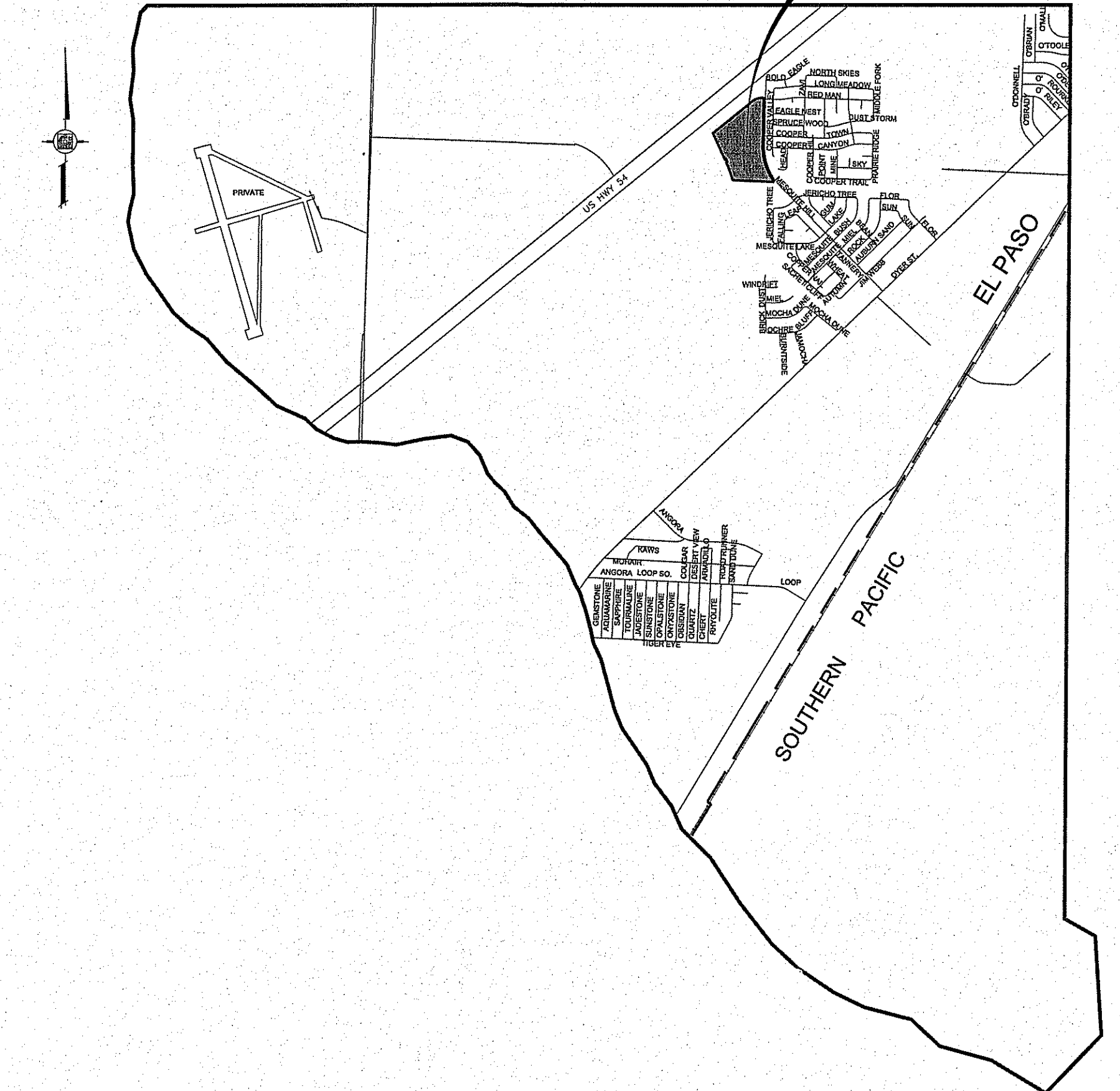


El Paso



VICINITY MAP



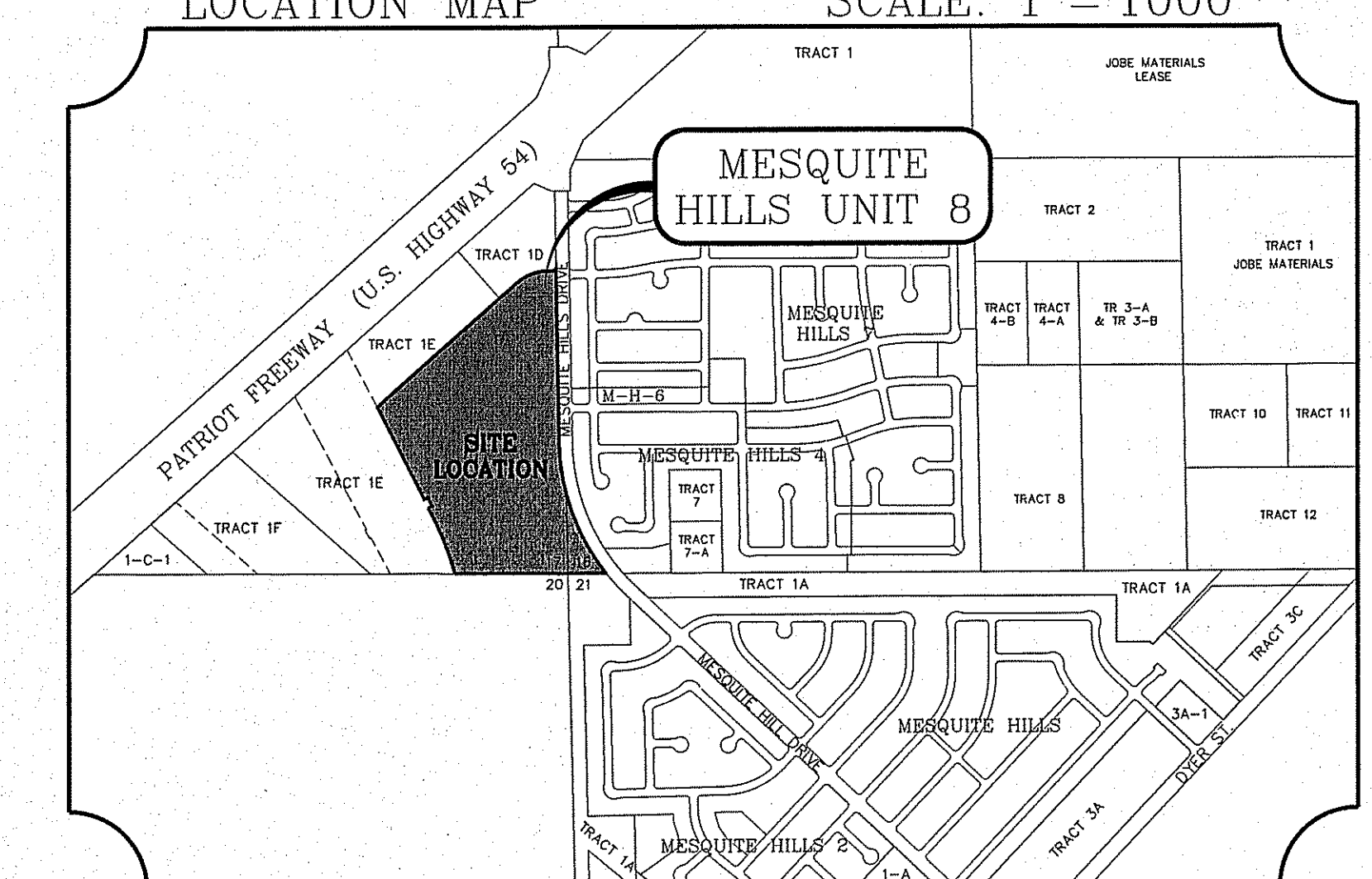
CITY DEVELOPMENT DEPARTMENT
 Reviewed For Conformance For Condition Related To:
 - Sidewalks - Driveways
 - Curbings & Drainage - Retaining Back Walls
 - Walkways/Ramps - On Site Parking of Heavy Vehicles
 - On Site Parking Layouts
 Contractor Must Call 24 Hours Prior To Construction for Inspections
 By: *[Signature]* Date: 12/21/16

STREET IMPROVEMENTS

I N D E X

TITLE	SHEET No.	TITLE	SHEET No.
COVER SHEET	1 OF 30	MESQUITE THORN DR.	17 OF 30
PLAT	2 OF 30	MESQUITE THORN DR.	18 OF 30
GRADING	3 OF 30	MESQUITE THORN DR.	19 OF 30
GRADING SECTIONS	4 OF 30	BROWN MESQUITE LN.	20 OF 30
GRADING SECTIONS	5 OF 30	RED MESQUITE WAY / OLD MESQUITE WAY	21 OF 30
DRAINAGE	6 OF 30	BLACK MESQUITE STRUCTURE NO. 1	22 OF 30
§.WP.P.P. AND STANDARD DETAILS	7 OF 30	MESQUITE RIVER STRUCTURE NO. 2	23 OF 30
§.WP.P.P. NOTES	8 OF 30	POND WITH SECTIONS	24 OF 30
COPPER TOWN DR.	9 OF 30	STORM DRAINAGE INLET DETAILS	25 OF 30
COPPER TOWN DR.	10 OF 30	STORM DRAINAGE STRUCTURE DETAILS	26 OF 30
BLACK MESQUITE DR.	11 OF 30	STORM DRAINAGE STRUCTURE DETAILS	27 OF 30
MESQUITE BLACK DR. / REDMAN DR.	12 OF 30	STANDARD DETAILS	28 OF 30
REDMAN DR.	13 OF 30	STANDARD DETAILS	29 OF 30
MESQUITE RIVER DR.	14 OF 30	ILLUMINATION PLAN	30 OF 30
MESQUITE RIVER DR.	15 OF 30	LANDSCAPE AND IRRIGATION	L1-L11 OF L11
WHITE MESQUITE WAY	16 OF 30	WATER & SEWER	1-7 OF 7

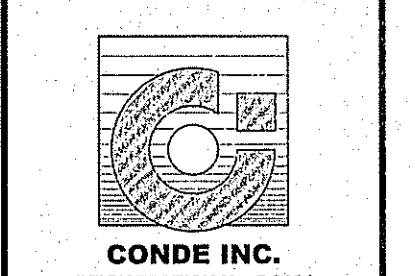
LOCATION MAP SCALE: 1" = 1000'



PROJECT NAME
MESQUITE HILLS UNIT 8
 BEING PORTION OF TRACT 6C, SECTION 16, AND PORTION OF TRACTS 1D AND 1E, SECTION 17, BLOCK 80, TOWNSHIP 1, TEXAS AND PACIFIC RAILROAD CO. SURVEYS, CITY OF EL PASO, EL PASO COUNTY, TEXAS, CONTAINING: 37.031 ACRES

CONDE INC.
 ENGINEERING / PLANNING
 SURVEYING / GPS
 6080 SURETY DR. STE 100
 EL PASO, TEXAS 79905
 NOVEMBER 17, 2016

CONDE INC.
 ENGINEERING / PLANNING
 SURVEYING / GPS
 6080 SURETY DR. STE 100
 EL PASO, TEXAS 79905



MESQUITE HILLS UNIT 8

BEING PORTION OF TRACT 6C, SECTION 16 AND PORTION OF TRACTS 1D AND 1E, SECTION 17, BLOCK 80, TOWNSHIP 1, TEXAS AND PACIFIC RAILROAD Co. SURVEYS, CITY OF EL PASO, EL PASO COUNTY, TEXAS CONTAINING: 37.03 ACRES

- NOTES:
- WATER AND SEWER SERVICES HAS BEEN EXTENDED TO THIS SUBDIVISION (MESQUITE HILLS UNIT 8) FROM EXISTING EL PASO WATER UTILITIES/PUBLIC SERVICE BOARD FACILITIES AND WERE CONSTRUCTED AND OPERABLE AS OF AUGUST 2018.
 - 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 16.343, TEXAS WATER CODE IS FILED IN THE OFFICE OF THE COUNTY CLERK, DEED AND RECORD SECTION. INSTRUMENT No. _____ DATE _____
 - TRACT CERTIFICATE FOR THIS SUBDIVISION ARE FILED IN THE OFFICE OF THE COUNTY CLERK, DEED AND RECORDS SECTION. INSTRUMENT No. 20180090677-79 DATE 11/29/2018
 - VEHICULAR ACCESS TO THOSE RESIDENTIAL LOTS ABUTTING MESQUITE HILL DRIVE SHALL BE FROM OTHER DESIGNATED 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 RECORD SECTION. INSTRUMENT No. 2018010680 DATE 11/29/2018
 - LOT CORNERS BEING 1/2" REBAR WITH CAP MARKED TX 5152 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".
 - ACCORDING TO THE FEDERAL EMERGENCY MANAGEMENT AGENCY FLOOD INSURANCE RATE MAP COMMUNITY PANEL NO. 480214-0000, DATED JANUARY 3, 1997, PROPERTY IS IN ALL FLOOD HAZARD ZONE "C" AREAS OF MANUAL FLOODING".
 - IF STORM WATER RUNOFF SHALL BE ADDRESSED WITHIN THE SUBDIVISION LIMITS AND SHALL COMPLY WITH ALL PROVISIONS OF (D.C. 19.19.01A AND DDM, 11.1).
 - STREET CLASSIFICATION 52' R.O.W. = 32' LOCAL RESIDENTIAL 3.

LINE	LENGTH	BEARING
L1	26.53	N63°01'54"E
L2	61.01	N26°58'02"W
L3	24.00	S63°02'00"W
L4	26.37	N89°00'18"E
L5	42.00	S89°00'18"W
L6	38.72	S60°17'27"W
L7	10.26	N89°53'16"W
L8	77.65	S0°05'44"W
L9	56.93	S77°16'36"E
L10	56.71	S72°19'49"E
L11	56.71	S64°52'20"E
L12	56.71	S57°24'51"E
L13	58.83	S65°35'30"E
L14	66.51	S89°54'48"W
L15	73.40	S26°20'02"W
L16	69.86	N41°28'18"W
L17	44.19	N41°28'18"W
L18	42.01	S89°54'48"W
L19	46.37	S89°00'18"W
L20	42.00	S89°00'18"W

SCHOOL DISTRICT
YSLETA INDEPENDENT SCHOOL DISTRICT
9600 SIMS DRIVE

TOTAL RESIDENTIAL LOTS
179

DEDICATION
NEWMAN RANCH PARTNERS, L.P., property owner of this land hereby present this plat and dedicate to the use of the public, the streets, drives, park pond, drainage R.O.W., drainage easement, restricted access easements, and utility easements as hereon laid down and designated, including easements for overhead of service wires for pole utilities, and buried service wires, conduits and pipes for underground utilities, and the right to ingress and egress for service and construction and the right to trim interfering trees and shrubs.
Witness our signature this 18th day of OCTOBER, 2018.
By: NEWMAN RANCH PARTNERS, L.P.
ITS GENERAL PARTNER,
Douglas A. Schwartz, MANAGER

ATTEST: NOT REQUIRED
ACKNOWLEDGEMENT
STATE OF TEXAS
COUNTY OF EL PASO
Before me, the undersigned authority, on this day personally appeared Douglas A. Schwartz, Manager of NEWMAN RANCH, L.P., 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 partnership for the purpose and considerations herein expressed.
Given under my hand and seal of office this 18th day of OCTOBER, 2018.
Notary Public in and for El Paso County
Philip Eltune
My Commission Expires 01-31-2022

CITY PLAN COMMISSION
This subdivision is hereby approved as to the platting and as to the condition of the dedication in accordance with Chapter 212 of the Local Government Code of Texas this 14th day of July, 2018.
Approved for filing this 16th day of November, 2018.
Philip Eltune
Planning and Inspections Director
FILING
Filed and recorded in the office of the County Clerk of El Paso County, Texas, this 29th day of November, 2018, A.D. in File No. 20180090676
Doris Brunson
County Clerk
FOR RECORDING PURPOSES ONLY
Yvonne Conde Curry, P.E.
County Clerk
By Deputy

CURVE	RADIUS	LENGTH	TANGENT	CHORD	BEARING	DELTA
C1	1392.00	907.01	470.26	891.05	S19°39'41"E	37°19'59"
C2	2030.00	453.99	227.74	462.65	N22°05'34"W	12°48'08"
C3	326.00	230.30	120.19	225.54	N68°46'00"E	40°28'36"
C4	20.00	31.42	20.00	28.28	N44°00'16"E	90°00'00"
C5	300.00	3.28	1.64	3.28	N60°36'15"E	0°23'37"
C6	300.00	152.86	76.43	151.21	N75°30'54"E	29°11'40"
C7	302.00	99.56	50.24	99.10	N14°55'13"W	10°00'52"
C8	1528.00	434.61	218.78	433.14	S16°16'42"E	16°17'48"
C9	1528.00	190.31	95.28	190.19	S43°34'7"E	7°08'10"
C10	750.00	194.91	98.01	194.36	N71°56'50"W	14°53'24"
C11	1790.00	77.62	38.82	77.61	S13°32'07"E	2°29'04"
C12	1790.00	130.03	65.04	130.00	S10°12'43"E	4°09'43"
C13	1790.00	222.94	111.61	222.80	S43°34'7"E	7°40'01"
C14	300.00	186.09	96.15	183.13	S47°44'44"E	35°32'29"
C15	1000.00	104.38	52.24	104.33	N32°57'54"W	5°58'50"
C16	300.00	47.06	23.58	47.01	S31°27'41"E	8°59'16"
C17	400.00	184.45	93.89	182.82	S76°52'35"E	26°25'41"
C18	400.00	154.95	78.46	153.98	S52°34'16"E	22°11'40"
C19	300.00	254.55	135.50	246.98	S65°46'54"E	48°36'54"
C20	300.00	120.91	61.29	120.10	S60°04'29"W	23°05'34"
C21	300.00	91.02	45.86	90.67	N32°57'54"W	17°23'02"
C22	20.00	31.42	20.00	28.28	N45°59'42"W	90°00'00"
C23	274.00	45.98	22.94	45.52	S83°02'44"W	9°31'49"
C24	20.00	27.86	16.81	25.74	S39°03'34"W	80°06'31"
C25	20.00	42.99	38.29	35.03	N63°07'34"E	12°16'30"
C26	274.00	39.22	19.64	39.19	S52°37'41"E	5°12'06"
C27	20.00	30.90	19.49	27.92	S41°16'14"W	83°30'59"
C28	50.00	24.47	12.48	24.23	N25°58'02"W	28°02'23"
C29	50.00	35.81	18.36	34.46	N89°00'55"E	39°58'42"
C30	50.00	35.48	18.62	34.74	N48°41'53"E	40°39'23"
C31	50.00	34.89	18.19	34.88	N89°00'55"E	39°58'42"
C32	50.00	24.47	12.48	24.23	S56°58'32"E	28°02'23"
C33	20.00	30.90	19.49	27.92	N87°12'49"W	83°30'59"
C34	20.00	31.42	20.00	28.28	S39°14'27"E	50°00'00"
C35	274.00	10.83	5.41	10.83	S42°36'13"E	2°15'51"
C36	274.00	64.33	32.31	64.18	S50°27'42"E	13°27'08"
C37	274.00	64.33	32.31	64.18	S63°04'50"E	13°27'08"
C38	274.00	65.40	32.86	65.25	S77°28'41"E	13°40'34"
C39	274.00	27.60	13.81	27.58	S87°02'05"E	5°46'14"
C40	20.00	31.73	20.32	28.51	N44°27'33"E	90°54'30"
C41	20.00	31.73	20.32	28.51	N45°32'27"E	89°05'30"
C42	326.00	13.68	6.84	13.67	S88°53'08"E	2°24'13"
C43	326.00	42.68	21.37	42.65	S83°55'57"E	7°30'05"
C44	326.00	42.68	21.37	42.65	S76°25'17"E	7°30'05"
C45	326.00	42.68	21.37	42.65	S68°55'46"E	7°30'05"
C46	326.00	42.68	21.37	42.65	S61°24'16"E	7°30'05"
C47	326.00	42.68	21.37	42.65	S53°53'36"E	7°30'05"
C48	326.00	42.68	21.37	42.65	S46°23'30"E	7°30'05"
C49	326.00	6.84	3.42	6.84	S42°04'22"E	1°12'09"
C50	20.00	31.42	20.00	28.28	N86°28'18"E	90°00'00"
C51	20.00	31.42	20.00	28.28	S33°42'12"E	90°00'00"
C52	20.00	31.42	20.00	28.28	N86°28'18"E	90°00'00"
C53	426.00	27.67	13.84	27.67	S43°19'35"E	3°43'18"
C54	426.00	77.68	38.90	77.47	S50°24'37"E	10°26'04"
C55	20.00	38.04	28.02	32.56	N1°08'42"E	108°57'55"
C56	50.00	28.12	14.44	27.75	S37°13'34"W	32°12'23"
C57	50.00	36.78	19.27	36.96	S0°02'31"W	42°08'43"
C58	50.00	38.86	20.47	37.89	S43°17'39"E	44°31'37"
C59	50.00	35.71	18.66	34.96	S86°01'14"E	40°55'32"
C60	50.00	35.71	18.66	34.96	N53°03'14"E	40°55'32"
C61	50.00	29.03	14.53	28.62	N15°57'38"E	33°15'40"
C62	20.00	38.04	28.02	32.56	S53°48'46"W	108°57'55"
C63	426.00	72.26	36.22	72.17	S76°33'50"E	9°43'07"
C64	426.00	64.41	32.27	64.35	S85°45'18"E	8°39'48"
C65	20.00	31.73	20.32	28.51	N45°32'27"E	89°05'30"
C66	20.00	31.73	20.32	28.51	S44°27'33"E	90°54'30"
C67	374.00	38.28	19.10	38.28	S44°24'12"E	5°51'49"
C68	374.00	59.07	29.60	59.01	S51°51'35"E	9°02'57"
C69	374.00	59.07	29.60	59.01	S60°54'32"E	9°02'57"
C70	374.00	59.07	29.60	59.01	S69°57'29"E	9°02'57"
C71	374.00	59.07	29.60	59.01	S79°00'26"E	9°02'57"
C72	374.00	42.79	21.42	42.76	S86°48'33"E	6°33'17"
C73	20.00	31.73	20.32	28.51	N44°27'33"E	90°54'30"
C74	20.00	31.73	20.32	28.51	S45°32'27"E	89°05'30"
C75	20.00	31.73	20.32	28.51	N44°27'33"E	90°54'30"
C76	20.00	31.73	20.32	28.51	N45°32'27"E	89°05'30"
C77	20.00	31.73	20.32	28.51	S44°27'33"E	90°54'30"
C78	20.00	31.73	20.32	28.51	N45°32'27"E	89°05'30"
C79	1392.00	36.13	18.07	36.13	S14°41'19"E	1°29'14"
C80	1392.00	43.99	22.00	43.99	S32°31'0"E	1°48'39"
C81	1392.00	43.99	22.00	43.99	S51°15'4"E	1°48'39"
C82	1392.00	43.99	22.00	43.99	S70°03'3"E	1°48'39"
C83	1392.00	43.99	22.00	43.99	S84°49'12"E	1°48'39"
C84	1392.00	43.99	22.00	43.99	S10°37'51"E	1°48'39"

CURVE	RADIUS	LENGTH	TANGENT	CHORD	BEARING	DELTA
C85	1392.00	43.99	22.00	43.99	S12°26'30"E	1°48'39"
C86	1392.00	43.99	22.00	43.99	S14°15'09"E	1°48'39"
C87	1392.00	43.99	22.00	43.99	S16°03'48"E	1°48'39"
C88	1392.00	43.99	22.00	43.99	S17°52'27"E	1°48'39"
C89	1392.00	43.99	22.00	43.99	S19°41'06"E	1°48'39"
C90	1392.00	43.99	22.00	43.99	S21°29'45"E	1°48'39"
C91	1392.00	43.99	22.00	43.99	S23'18'24"E	1°48'39"
C92	1392.00	44.13	22.07	44.13	S25°07'03"E	1°48'39"
C93	1392.00	43.08	21.54	43.08	S26°55'42"E	1°48'39"
C94	1392.00	164.77	82.48	164.67	S34°56'13"E	6°49'55"
C95	20.00	28.47	18.14	28.68	S73°45'31"E	84°25'30"
C96	326.00	29.45	14.73	29.44	N66°37'00"E	5°10'33"
C97	326.00	43.62	21.84	43.59	N73°02'17"E	7°40'01"
C98	326.00	43.62	21.84	43.59	N80°42'18"E	7°40'01"
C99	326.00	31.71	15.87	31.70	N87°19'32"E	5°34'25"
C100	20.00	32.52	21.14	29.06	N108°47'08"E	93°10'28"
C101	274.00	87.42	44.09	87.05	N74°30'49"E	18°16'52"
C102	20.00	29.21	17.91	28.68	S54°30'13"E	83°41'06"
C103	326.00	24.78	12.40	24.77	N14°50'19"W	4°21'19"
C104	326.00	42.17	21.11	42.14	N20°43'19"W	7°24'41"
C105	1502.00	5.65	2.83	5.65	S24°19'11"E	0°12'56"
C106	1502.00	47.47	23.74	47.47	S23°28'24"E	1°48'39"
C107	1502.00	47.47	23.74	47.47	S21°29'45"E	1°48'39"
C108	1502.00	47.47	23.74	47.47	S19°41'06"E	1°48'39"
C109	1502.00	47.47	23.74	47.47	S17°52'27"E	1°48'39"
C110	1502.00	47.47	23.74	47.47	S16°03'48"E	1°48'39"
C111	1502.00	47.47	23.74	47.47	S14°15'09"E	1°48'39"
C112	1502.00	47.47	23.74	47.47	S12°26'30"E	1°48'39"
C113	1502.00	47.47	23.74	47.47	S10°37'51"E	1°48'39"
C114	1502.00	47.47	23.74	47.47	S8°49'12"E	1°48'39"
C115	1502.00	47.47	23.74	47.47	S7°00'33"E	1°48'39"
C116	1502.00	47.47	23.74	47.47	S5°11'54"E	1°48'39"
C117	1502.00	47.47	23.74	47.47	S3°23'15"E	1°48'39"
C118	1502.00	38.99	19.49	38.99	S14°19'17"E	1°29'14"
C119	1554.00	148.13	74.12	148.07	S34°32'32"E	5°27'41"
C120	20.00	30.83	19.42	27.87	N37°42'23"E	88°19'31"
C121	20.00	30.83	19.42	27.87	N35°38'06"E	88°19'31"
C122	1554.00	85.73	42.86	85.72	S11°31'02"E	3°09'

GENERAL NOTES:

- IMPROVEMENT WITHIN CITY R.O.W. SHALL COMPLY WITH TITLE 19--SUBDIVISION ORDINANCE--"SUBDIVISION IMPROVEMENT DESIGN STANDARDS".
- 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.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION AND NOTIFICATION WITH ALL APPURTENANT UTILITY COMPANIES WHOSE LINES ARE WITHIN THE CONSTRUCTION CONTRACT AREA. THE CONTRACTOR SHALL NOTIFY UTILITY COMPANIES 48 HOURS PRIOR TO ANY CONSTRUCTION ON SITE. THE CONTRACTOR WILL BE RESPONSIBLE PHYSICALLY AND FINANCIALLY FOR ANY DISRUPTION TO SERVICE EITHER ON SITE OR OFF SITE DUE TO BREAKAGE OF UTILITY LINES.
- 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.
- EQUIPMENT OF A CONDITION AND DESIGN SUFFICIENT TO ENSURE A THOROUGH AND WORKMANLIKE PROSECUTION OF THE PROJECT SHALL BE USED AT ALL TIMES.
- ALL ELEVATIONS ARE TO CITY DATUM UNLESS OTHERWISE NOTED.
- ALL WASTE MATERIALS INCLUDING EXCAVATION, CURBING, PAVEMENT, ETC. SHALL BE DISPOSED OF AS DESIGNATED BY THE OWNER OR HIS REPRESENTATIVE.
- 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.
- SAFE AND REASONABLE ACCESS FOR THIS SITE MUST BE MAINTAINED AT ALL TIMES DURING THE LIFE OF THE PROJECT.
- ANY CAVITY REMAINING OPEN DURING NONWORKING HOURS MUST BE GUARDED BY FLASHER TYPE BARRICADES WITH STRINGERS PLACED BETWEEN THE TOPS OF THE BARRICADES.
- DEVELOPER SHALL COMPLY WITH SECTION 13.08.170 "EXCESSIVE PAVING CUTS" AS PER EL PASO MUNICIPAL CODE.

GENERAL EARTHWORK NOTES:

- ALL GRADING SHALL CONFORM TO THE CITY OF EL PASO GRADING ORDINANCE SECTION 18.44.
- 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.
- NATURAL SUBGRADES TO SUPPORT STRUCTURAL FILL OR PAVEMENTS SHOULD BE STRIPPED OF ALL VEGETATION OR ORGANIC TOPSOIL. THE EXPOSED SUBGRADE SHOULD BE SCARIFIED JUST PRIOR TO FILL PLACEMENT TO A MINIMUM DEPTH OF 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.
- TEMPORARY DUST AND EROSION CONTROL MEASURES SHALL BE PROVIDED FOR AT ALL TIMES.
- 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.
- ALL SLOPES AND SWALES WITHIN LOTS SHALL BE MAINTAINED BY LOT OWNER.

CONSTRUCTION NOTES:

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

CONSTRUCTION ACTIVITY REQUIREMENTS:

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

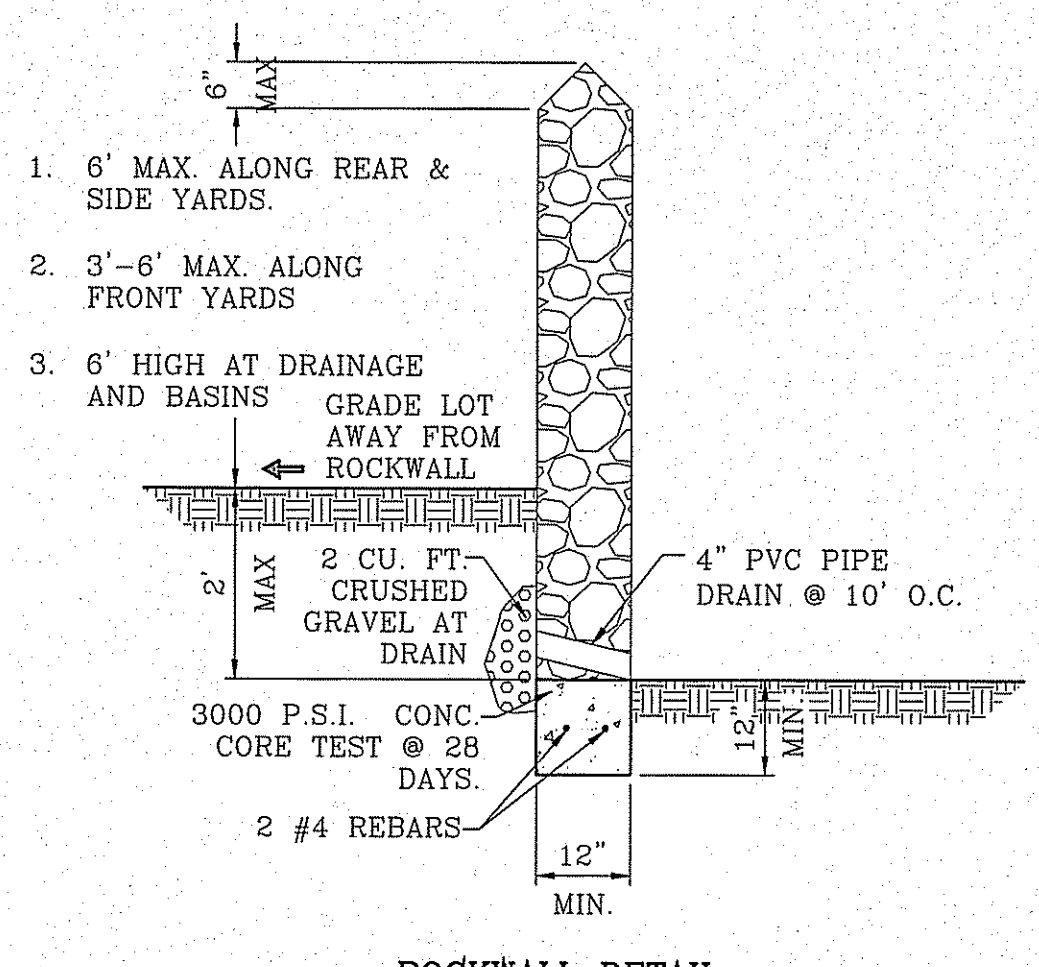
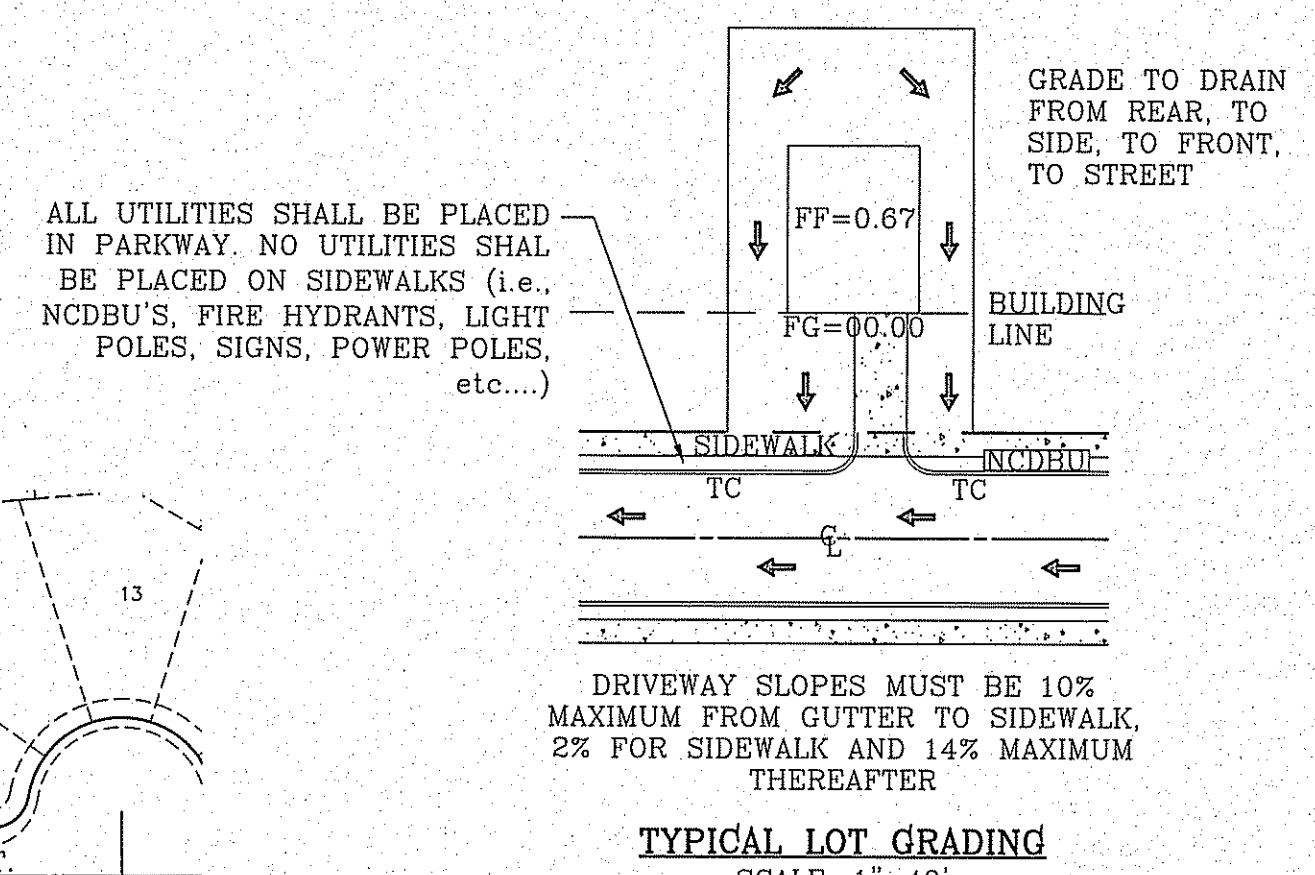
18.44.220 - PERMIT CLOSOUT PROCEDURE:

- AFTER THE PERMITTEE COMPLETES THE GRADING UNDER THE PERMIT, THE PERMIT SHALL BE CLOSED. AS PART OF THE CLOSOUT 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 GSP HAS BEEN IMPLEMENTED.
 - A COPY OF THE NOTICE OF TERMINATION FILED WITH THE STATE OR DATED CONSTRUCTION SITE NOTICE, IF APPLICABLE, IN ACCORDANCE WITH CHAPTER 15.
- THE CITY WILL ISSUE A LETTER STATING GENERAL CONFORMANCE TO THE PERMIT'S 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 WARRANT AND MAINTAIN THE AREA DESCRIBED IN THE PERMIT FOR A PERIOD OF TWO YEARS AFTER THE PERMIT IS CLOSED BY THE CITY PURSUANT TO SECTION 18.44.220, OR UNTIL A BUILDING PERMIT IS ISSUED FOR THE PURPOSE OF MAINTAINING A STABILIZED SITE IN ACCORDANCE WITH THE APPROVED GSP, WHICHEVER FIRST OCCURS (THE "WARRANTY" OR "WARRANTY PERIOD"). THE CITY MAY CONDUCT INSPECTIONS OF THE PERMITTED AREA THROUGHOUT THE WARRANTY PERIOD AND REQUIRE MAINTENANCE AND CORRECTION OF THE WORK BY THE PERMIT HOLDER. FAILURE OF THE PERMIT HOLDER TO CORRECT THE WORK SHALL CONSTITUTE A FAILURE TO COMPLY WITH THE PROVISIONS OF THIS CHAPTER.

○ DENOTES AS BUILT CONDITION ONLY



ROCKWALL NOTES:

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

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

SEE SHEET 25 - STRUCTURE DETAILS

DETAIL No. 314 - SECTION DETAIL SHEET

SECTION REFERENCE SHEET

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

LEGEND

FF=0.67	PROPOSED FINISH FLOOR
FG=0.00	PROPOSED FINISH GROUND
00.00	PROPOSED SPOT ELEVATION
◆	HIGH POINT
▼	LOW POINT
-4000-	EXISTING CONTOUR
4000	EXISTING SPOT ELEVATION
-4000-	PROPOSED CONTOUR
-----	PROPOSED RETAINING WALL, RETAINING OVER 2'
-----	4" ROLL CURB
-----	6" CURB AND GUTTER

FILE LOCATION S:\Subdivisions\MESQUITE HILLS 8\DWG\MESQUITE HILLS 8 - GDPL PLOTTED ON Thursday, November 17, 2016 2:07:23 PM BY ESTERIN JUAREZ



BENCHMARK LOCATED AT THE CENTERLINE INTERSECTION OF COPPER TOWN DRIVE AND MESQUITE HILLS DRIVE. ELEV. = 4015.08

DATE	REVISIONS	BY
07/06/16	AS PER CITY REDLINES COMMENTS	E.J.

MESQUITE HILLS UNIT 8

BEING PORTION OF TRACT 6C, SECTION 16 AND PORTION OF TRACTS 1D AND 1E, SECTION 17, BLOCK 80, TOWNSHIP 1, TEXAS AND PACIFIC RAILROAD CO. SURVEYS, CITY OF EL PASO, EL PASO COUNTY, TEXAS. CONTAINING: 37.031 ACRES

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

DATE: FEB. 2016

DESIGN BY: J.C.

INITIATED BY: E.J.

CHECKED BY: J.C.

JOB NO.: 113-30

CONDE INC.

ENGINEERING / PLANNING SURVEYING / GIS

6080 SURETY DR. STE 100 EL PASO, TEXAS 79905

PHONE: (915) 592-0283 FAX: (915) 592-0286

CONDE INC.

REGISTRATION NO. F-2321

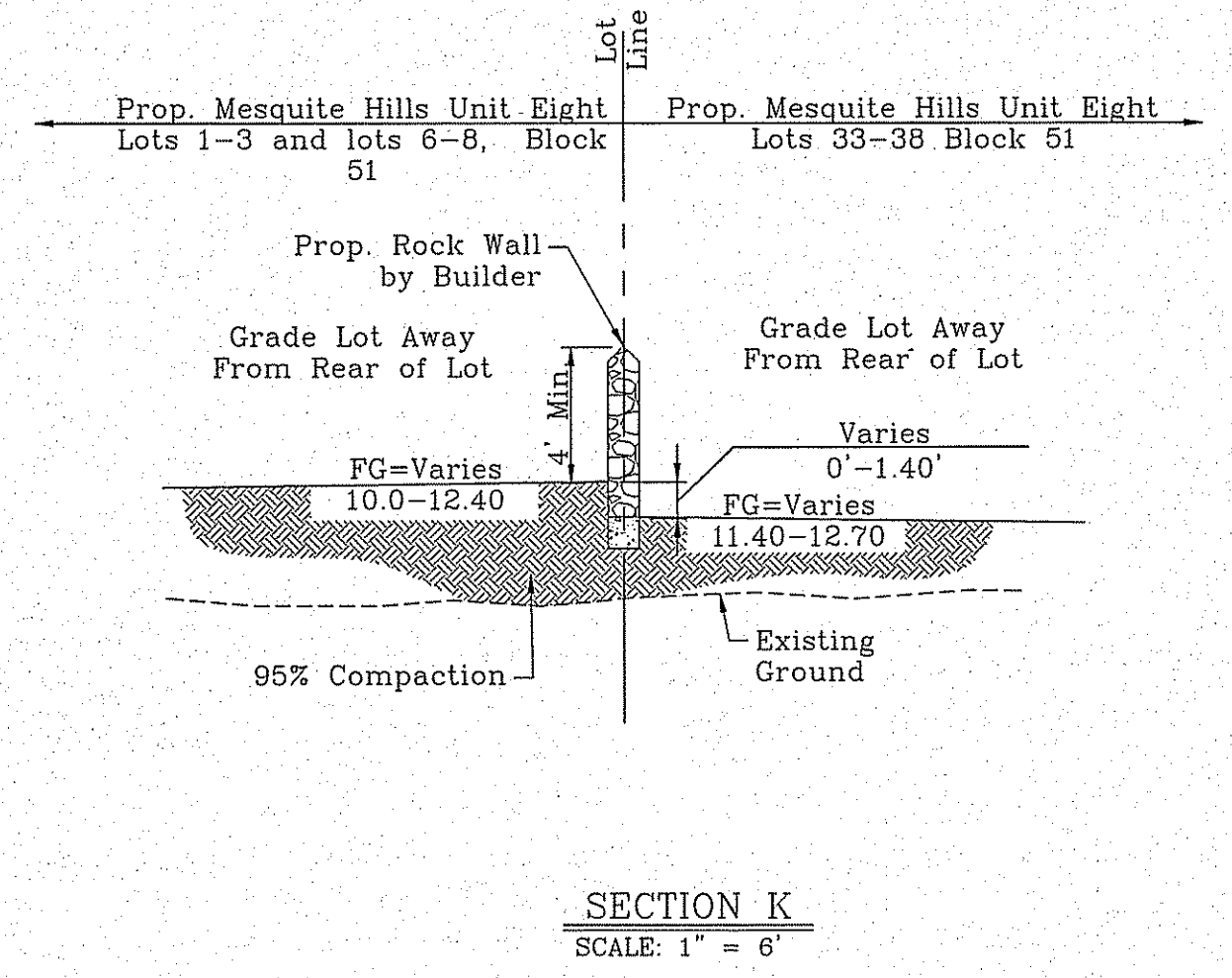
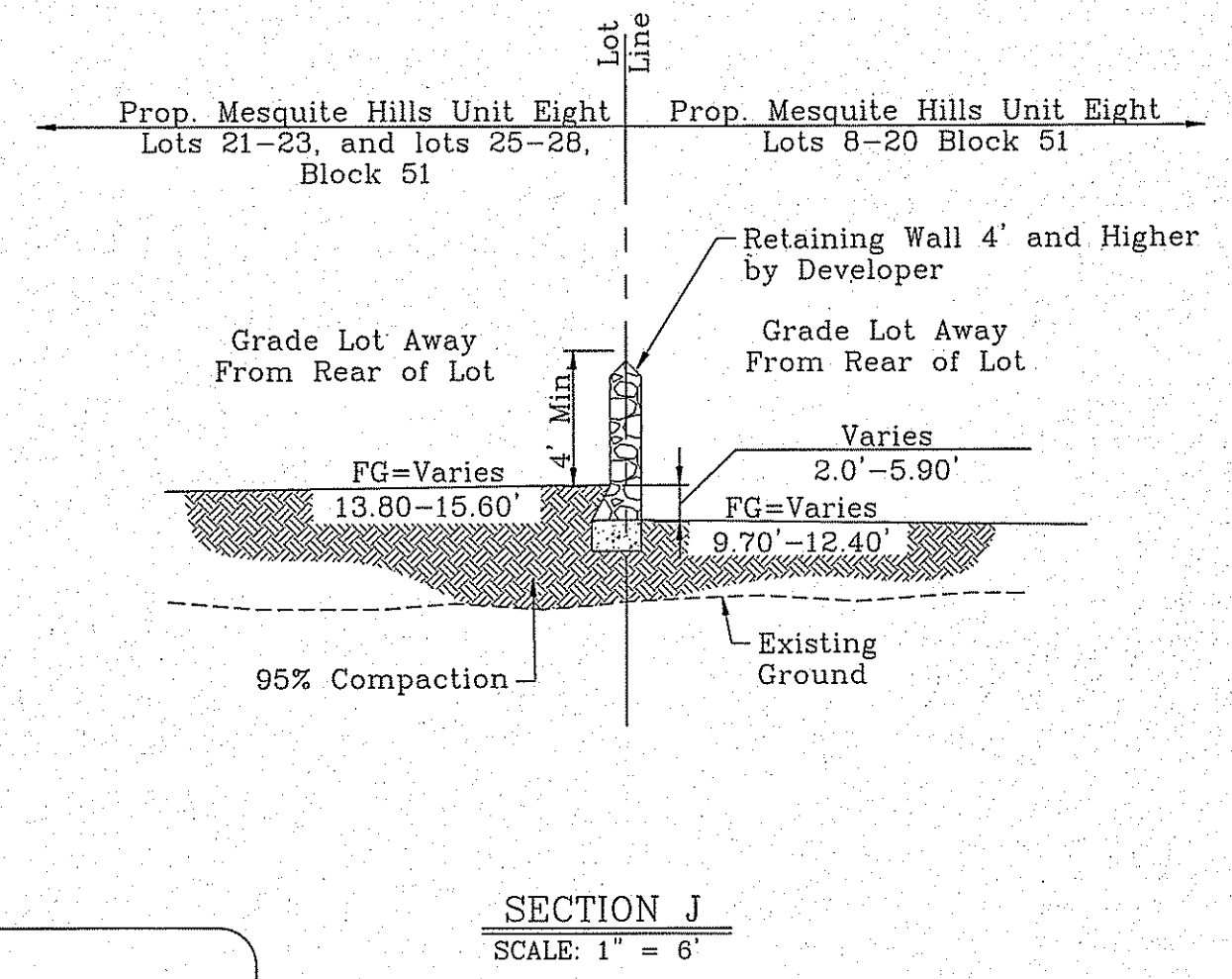
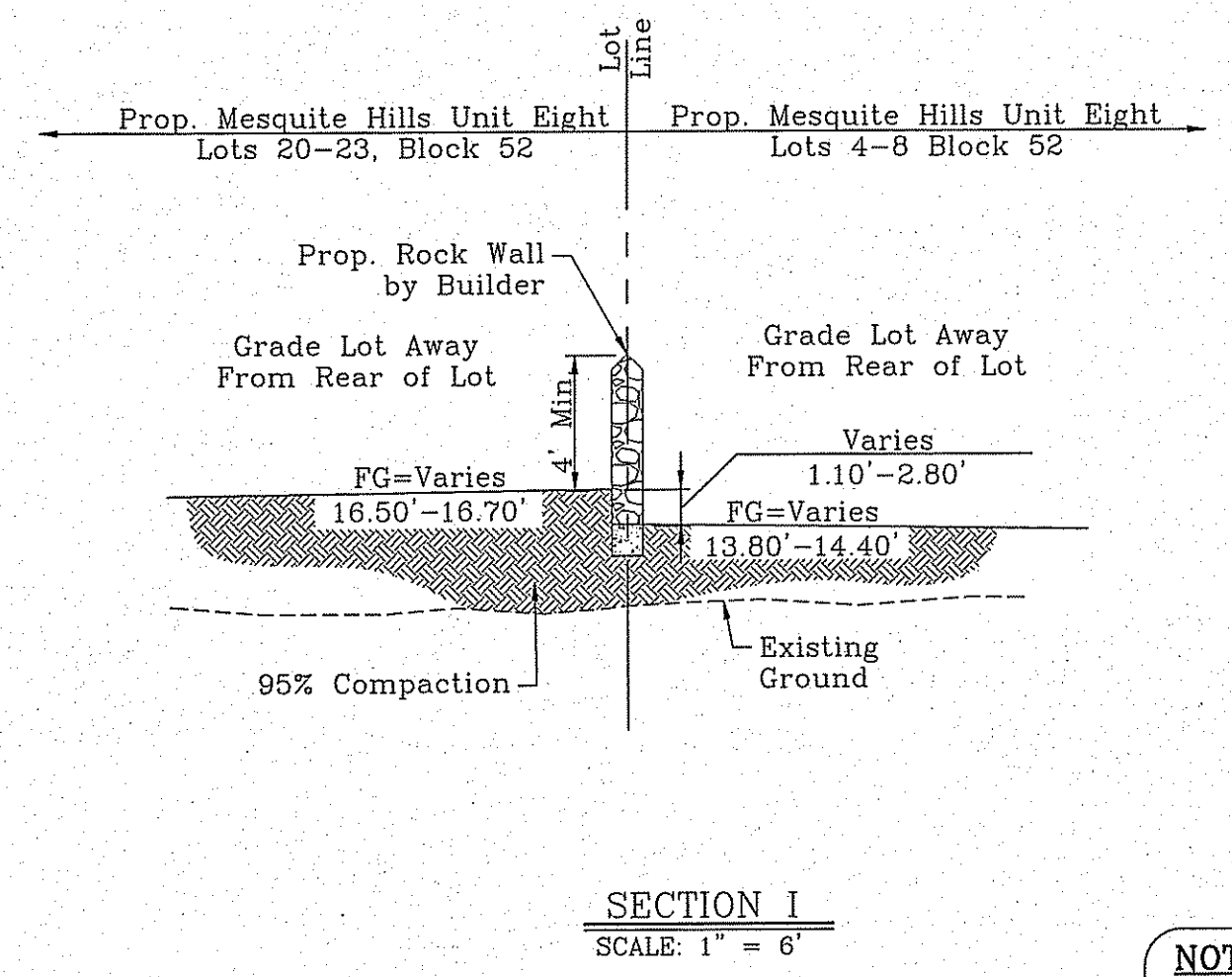
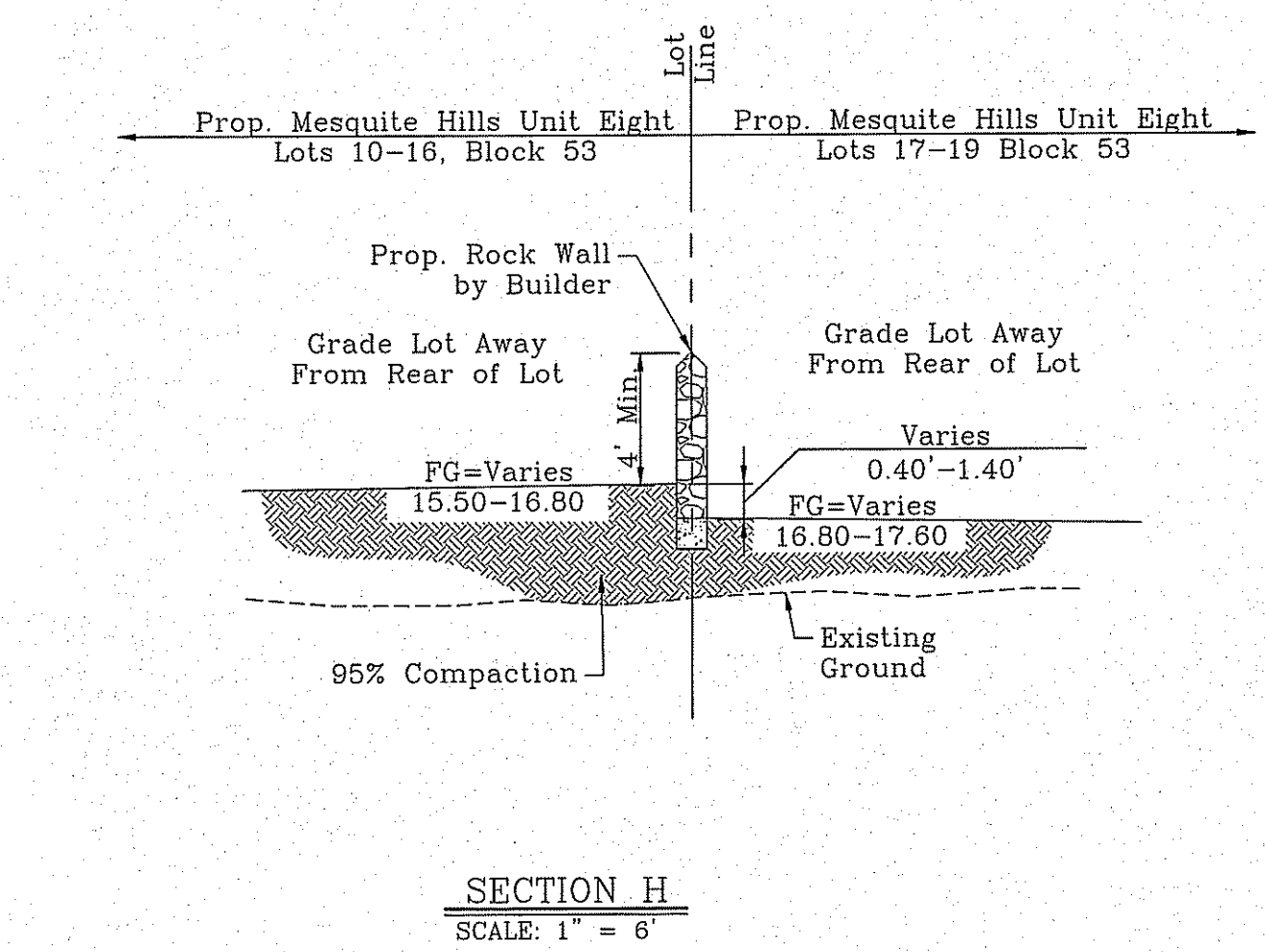
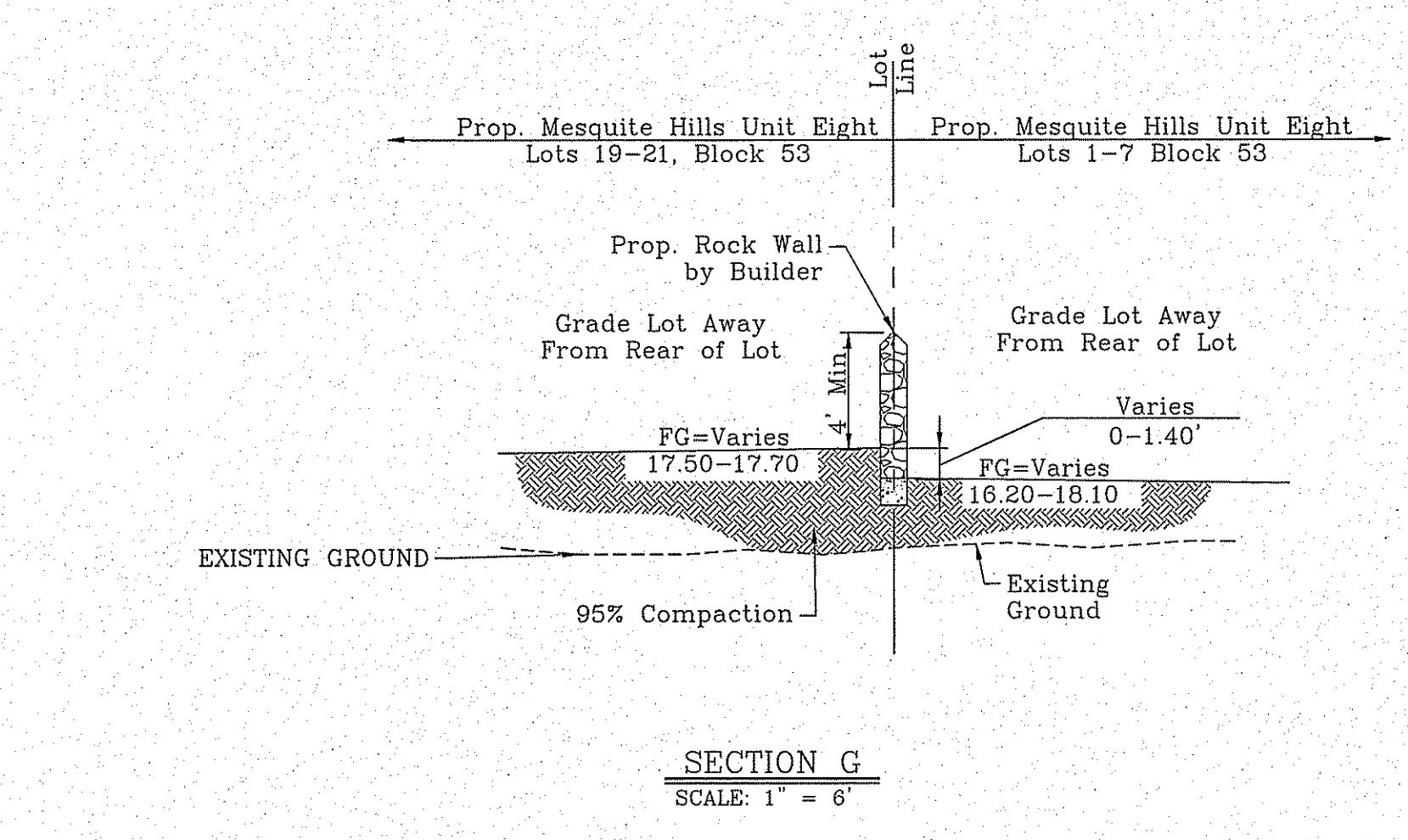
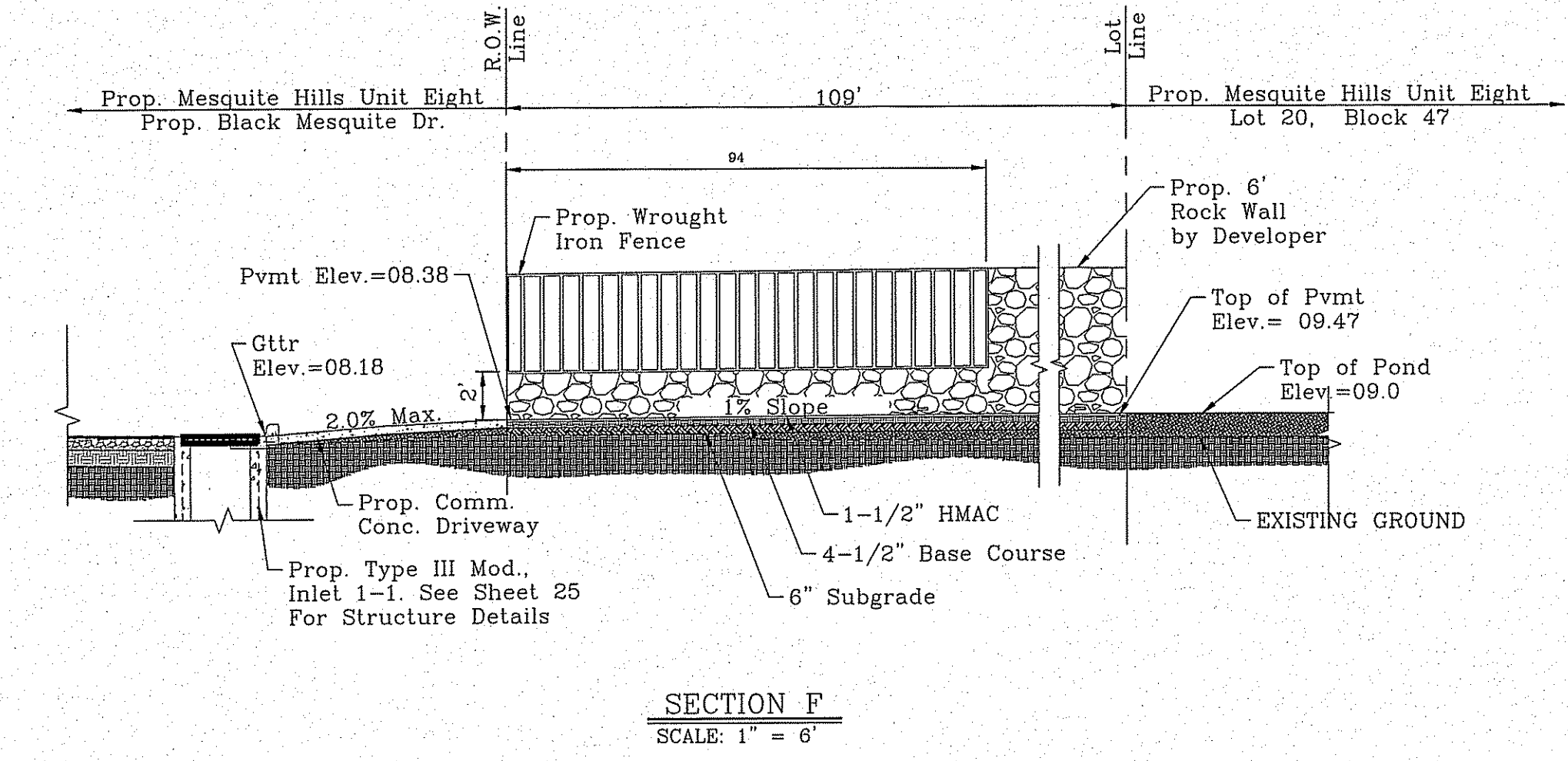
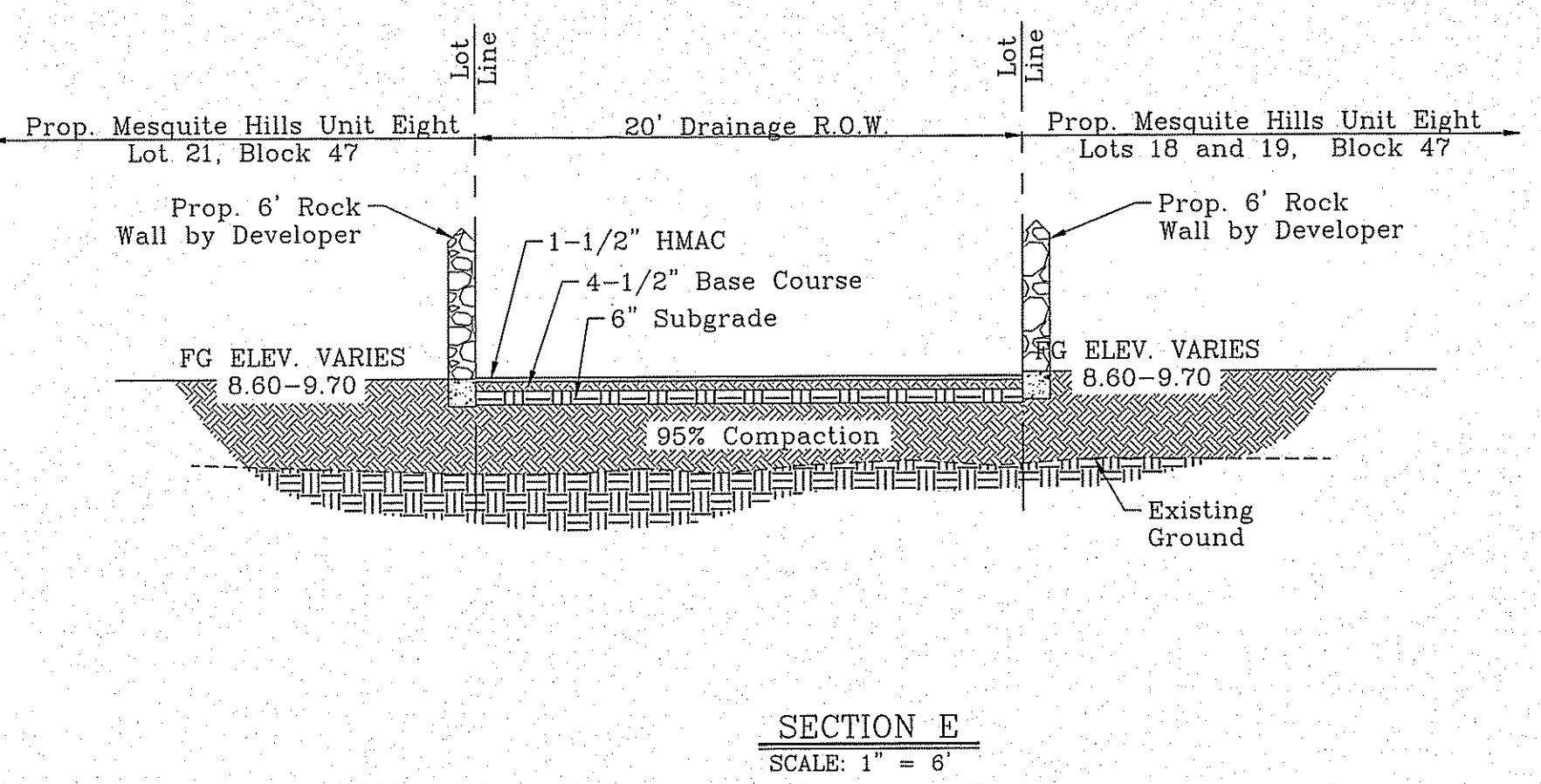
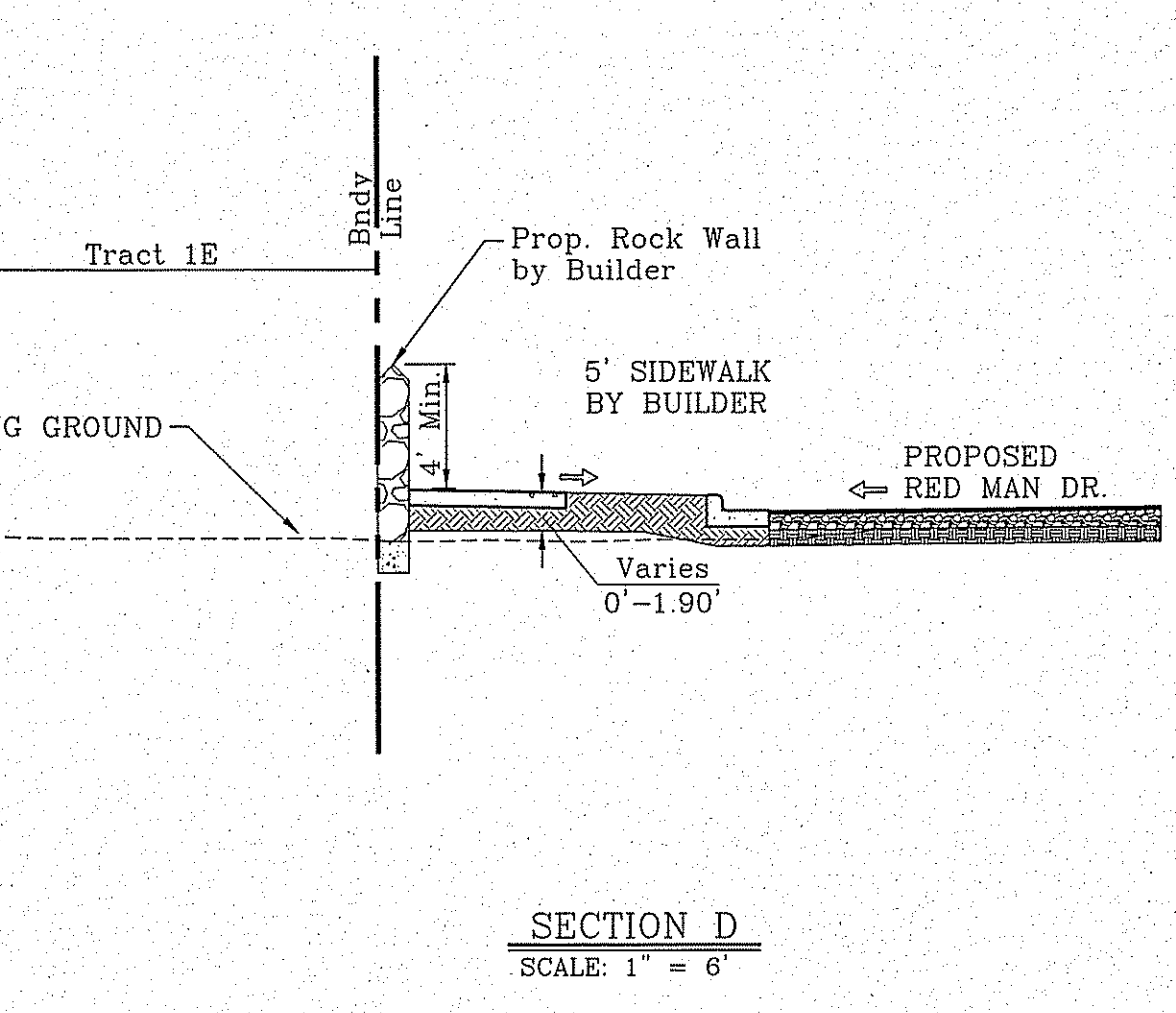
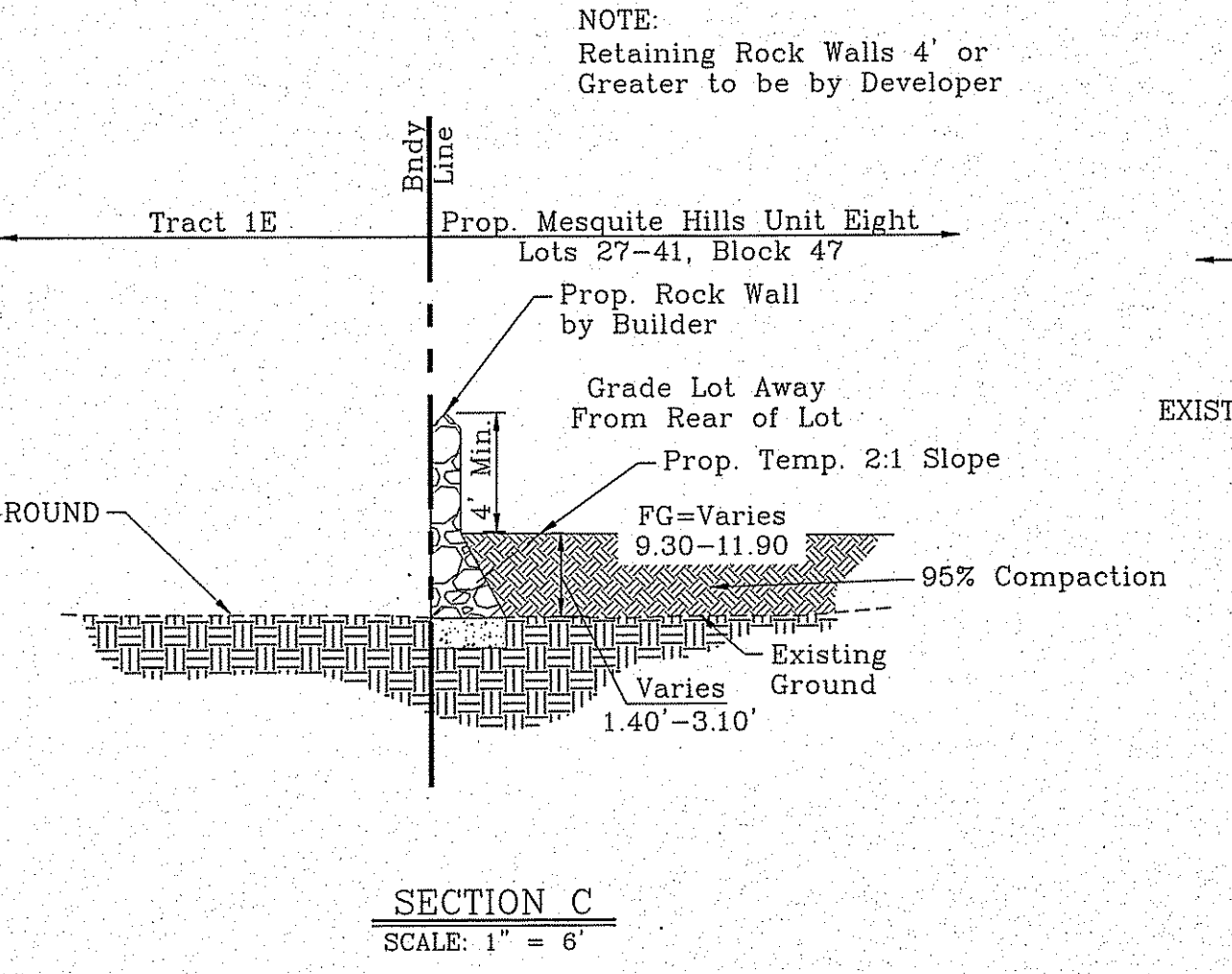
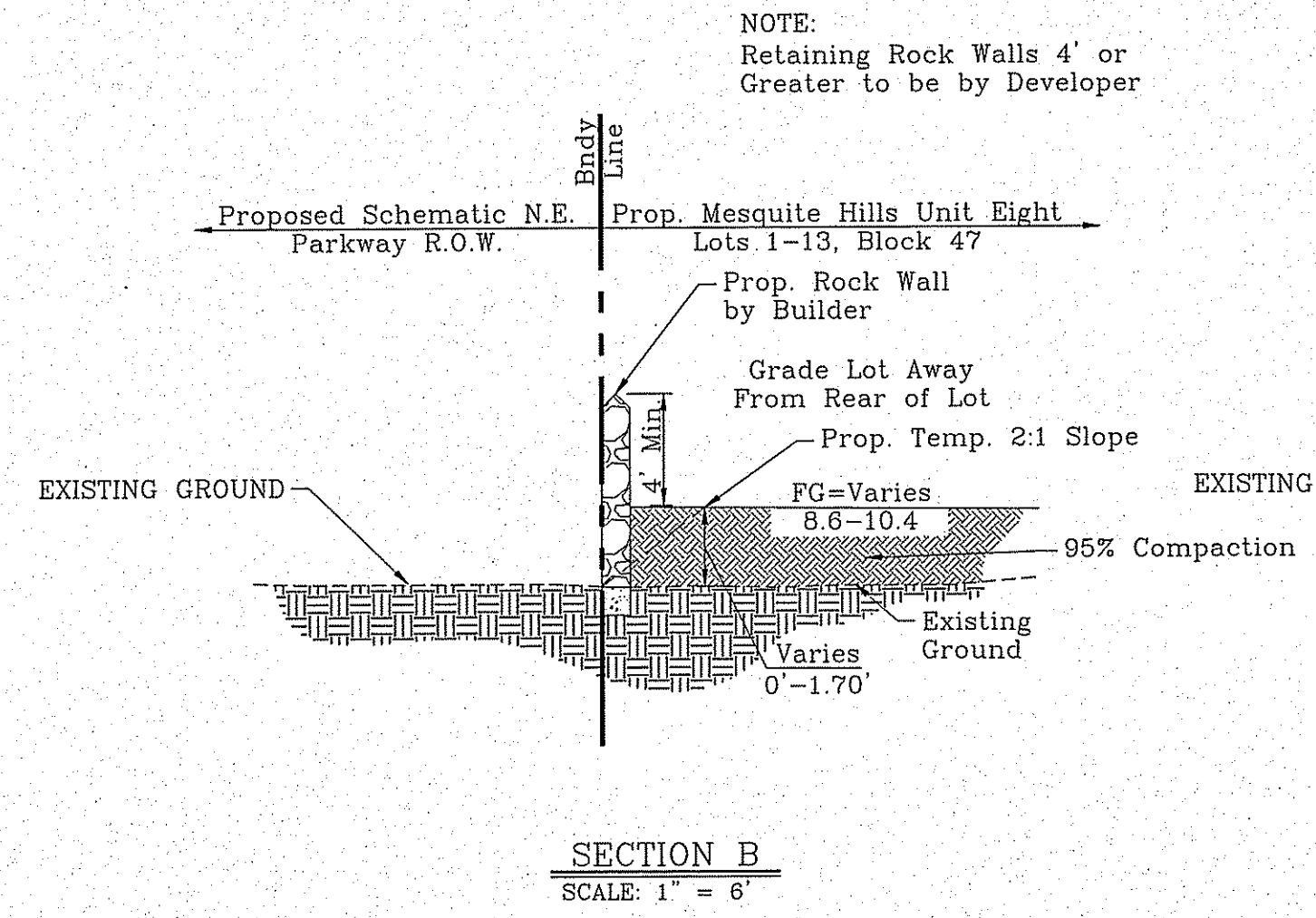
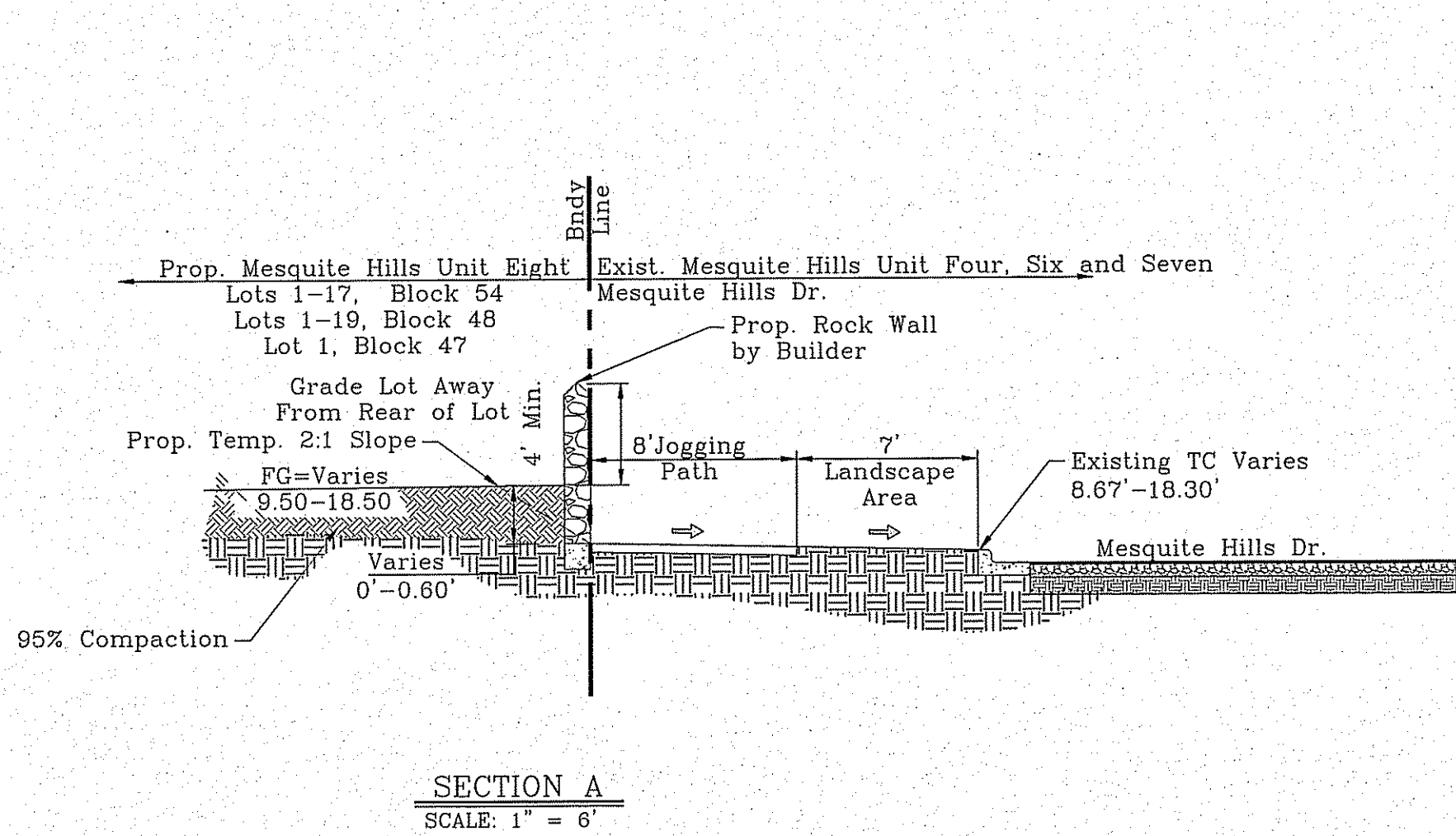
SHEET TITLE

GRADING PLAN

SHT 3 OF 30



FILE LOCATION S:\Subdivisions\MESQUITE HILLS 8 DWG\MESQUITE HILLS 8 - GDP.L PLOTTED ON Thursday, November 17, 2016 2:07:38 PM BY ESTEBAN JUAREZ



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

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

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



BENCHMARK	LOCATED AT THE CENTERLINE INTERSECTION OF COPPER TOWN DR. AND MESQUITE HILLS DRIVE. ELEV.=4013.08
REVISIONS	
DATE	07/06/16
BY	E.J.
COMMENTS	AS PER CITY REDLINES

PROJECT NAME
MESQUITE HILLS UNIT 8

SCALE
as shown

DATE
FEB. 2016

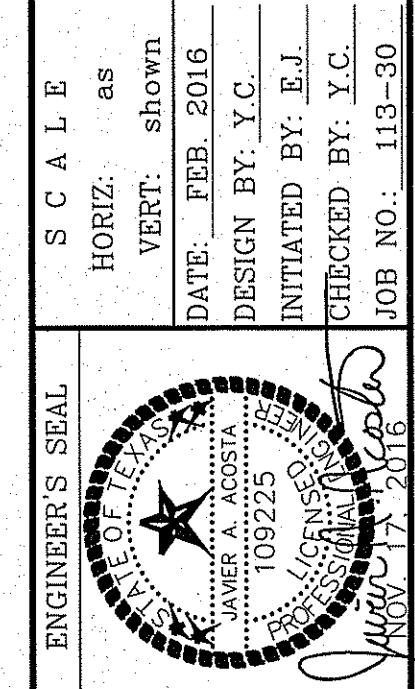
DESIGN BY
Y.C.

INITIATED BY
E.J.

CHECKED BY
Y.C.

JOB NO.
113-30

BEING PORTION OF TRACT 6C, SECTION 16 AND PORTION OF TRACTS 1D AND 1E, SECTION 17, BLOCK 80, TOWNSHIP 1, TEXAS AND PACIFIC RAILROAD CO. SURVEYS, CITY OF EL PASO, EL PASO COUNTY, TEXAS CONTAINING: 37.031 ACRES



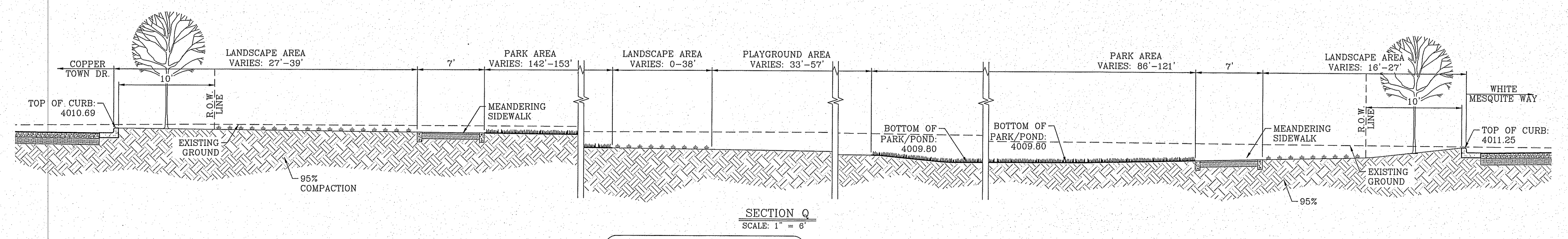
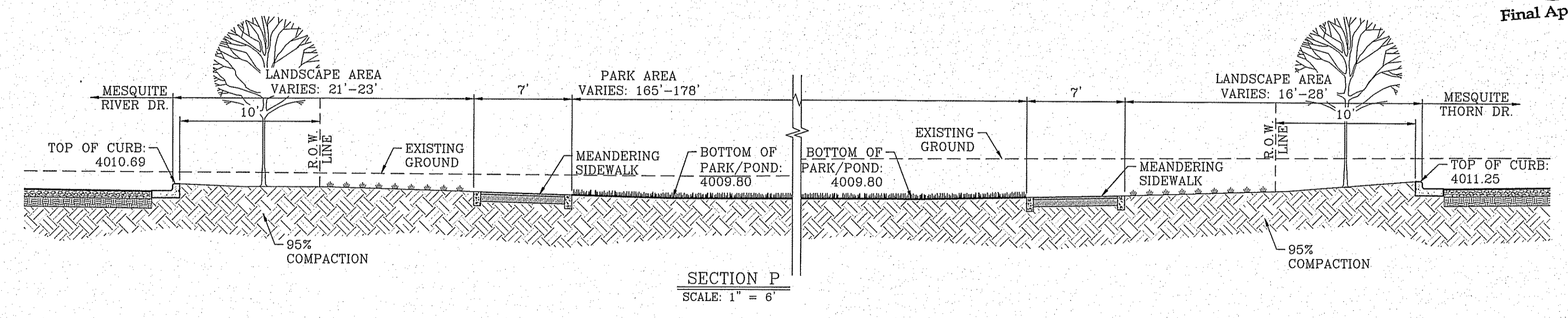
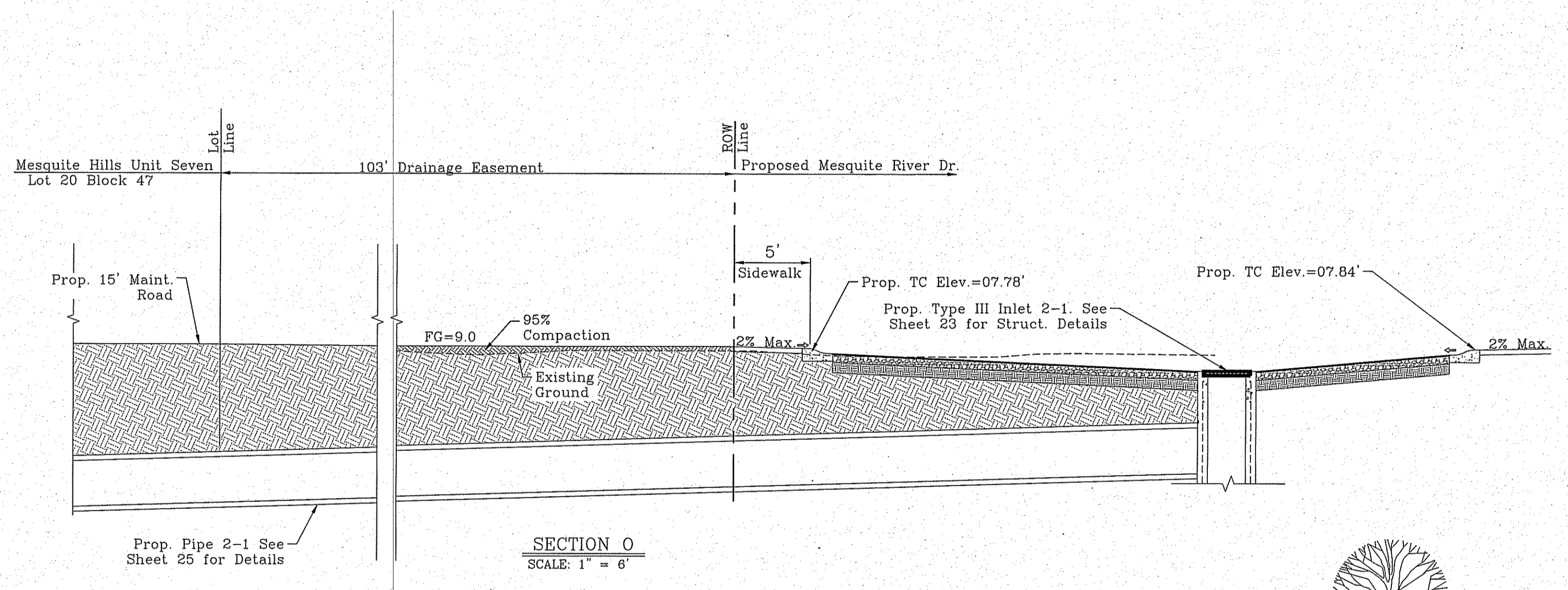
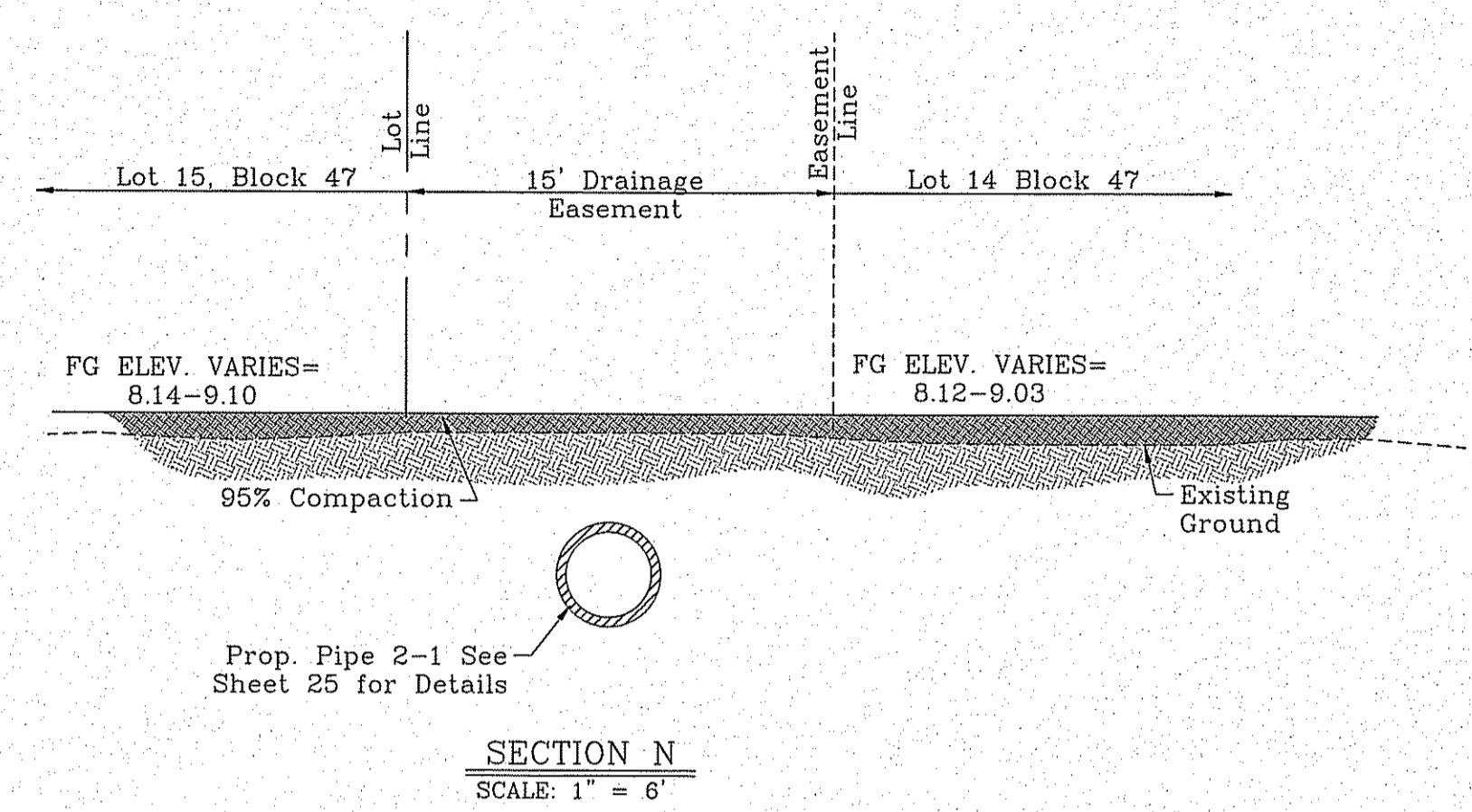
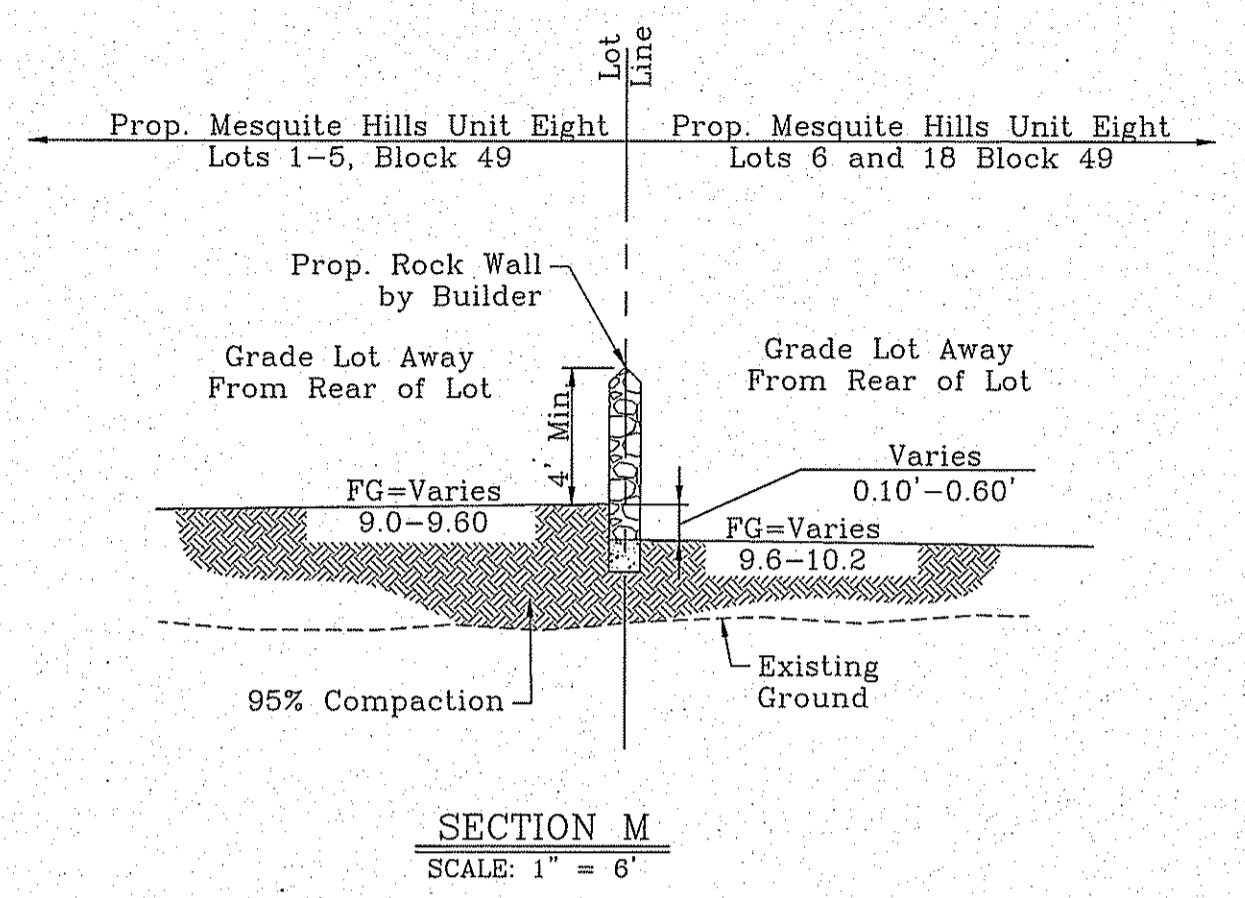
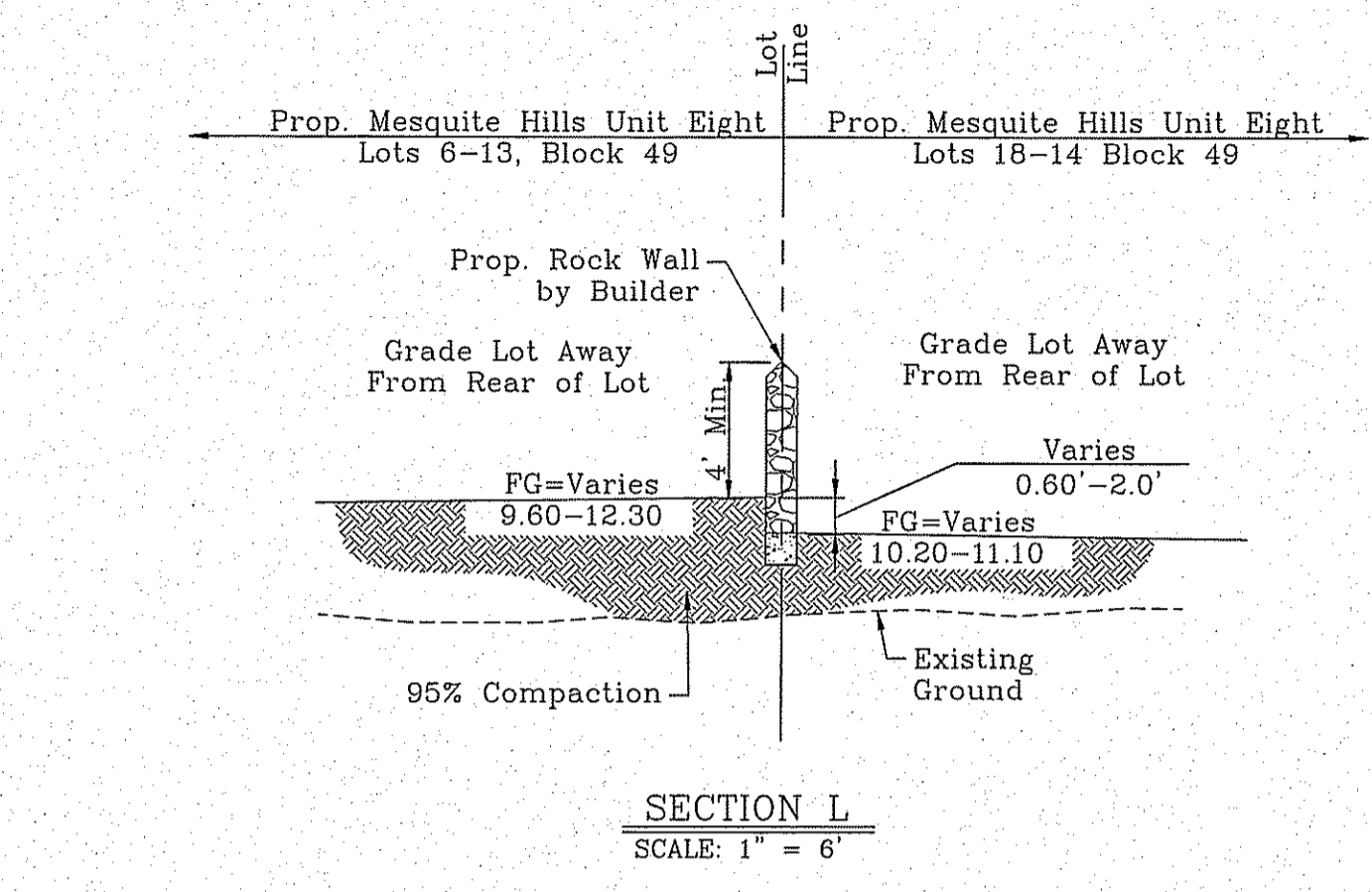
CONDE INC.
ENGINEERING / PLANNING
SURVEYING / GPS
6080 SURETY DR. STE 100
EL PASO, TEXAS 79905
PHONE: (915) 592-0283
FAX: (915) 592-0286



SHEET TITLE
GRADING SECTIONS

SHT 4 OF 30

FILE LOCATION S:\Subdivisions\MESQUITE HILLS 8\DWG\MESQUITE HILLS 8 - GDPL PLOTTED ON Thursday, November 17, 2016 2:07:54 PM BY ESTEBAN JUAREZ



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



BENCHMARK LOCATED AT THE CENTERLINE INTERSECTION OF COPPER TOWN DRIVE AND MESQUITE HILLS DRIVE. ELEV. = 4013.08	
DATE	REVISIONS
07/09/16	AS PER CITY REDLINES COMMENTS
09/17/16	ADDITIONS OF SECTIONS P AND Q
BY	E.J.
BY	E.J.

PROJECT NAME
MESQUITE HILLS UNIT 8

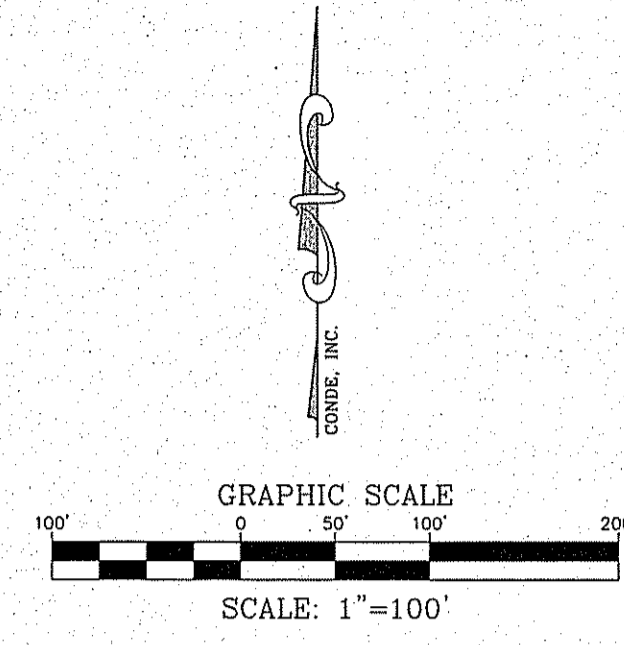
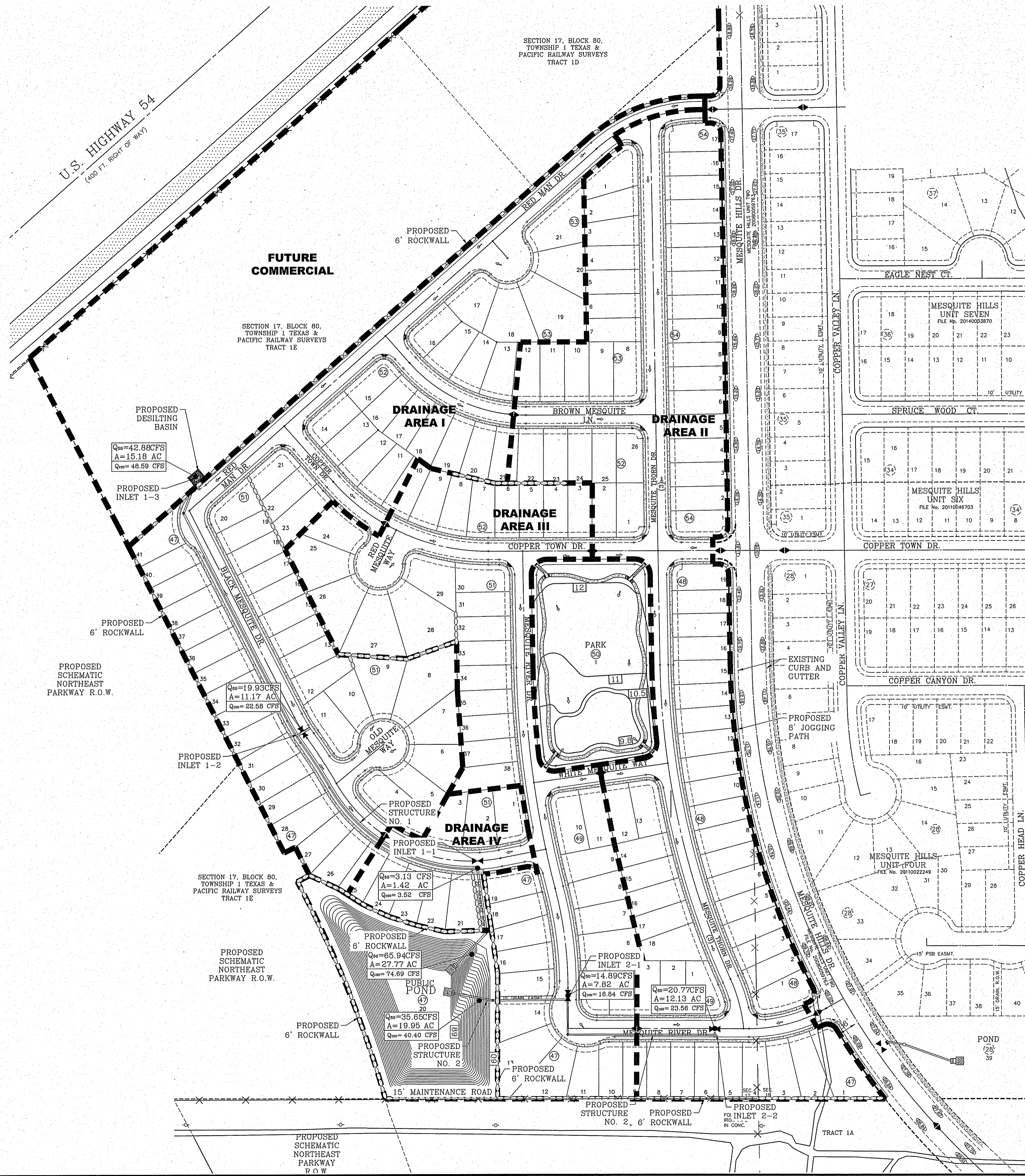
BEING PORTION OF TRACT 6C, SECTION 16 AND PORTION OF TRACTS 1D AND 1E, SECTION 17, BLOCK 80, TOWNSHIP 1, RANGE 14N, COUNTY OF EL PASO, TEXAS, CITY OF EL PASO, TEXAS, CONTAINING: 37.031 ACRES

SCALE	
HORIZ:	as shown
VERT:	as shown
DATE:	FEB. 2016
DESIGN BY:	Y.C.
INITIATED BY:	E.J.
CHECKED BY:	Y.C.
JOB NO.:	113-30

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FILE LOCATION S:\Subdivisions\MESQUITE HILLS 8\DWG\MESQUITE HILLS 8 - GDPL PLOTTED ON Thursday, November 17, 2016 2:08:11 PM BY ESTEBAN JUAREZ



DRAINAGE AREA	AREA (acreg)	Tc (min)	d	I ₁₀₀ (in/hr)	Q ₁₀₀ (cfs)	I ₁₀₀ (in/hr)	Q ₁₀₀ (cfs)
I	11.17	19.0	0.60	2.97	19.93	3.37	22.58
II	12.13	21	0.60	2.85	20.77	3.24	23.56
III	7.82	16.0	0.60	3.17	14.89	3.59	16.84
IV	1.42	10.0	0.60	3.67	3.13	4.13	3.52
FUTURE COMMERCIAL	15.18	19.0	0.95	2.97	42.88	3.37	48.59
POND	2.29	FOR POND CALCULATIONS, SEE SHEET 24.					
PARK	2.08	FOR PARK CALCULATIONS, SEE THIS SHEET					

$Q = \frac{ARC}{12} = \frac{2.08(4)(0.4)}{12} 0.27$			
ELEVATION FT	AREA SQ-FT	CONIC VOL AC-FT	VOLUME CAP. AC-FT
4009.80	13352.11	0.00	0.00
4010.50	24372.38	0.30	0.30

NOTE:
HEREON DESCRIBED TRACT LIES IN ZONE C, COMMUNITY PANEL NO. 480214 0009D DATED SEPTEMBER 3, 1997.

FF=0.67	PROPOSED FINISH FLOOR
FG=00.00	PROPOSED FINISH GROUND
00.00	PROPOSED SPOT ELEVATION
▲	HIGH POINT
▼	LOW POINT
—4000—	EXISTING CONTOUR
—4000—	EXISTING SPOT ELEVATION
—4000—	PROPOSED CONTOUR
—4000—	PROPOSED RETAINING WALL, RETAINING OVER 2'
—4000—	4" ROLL CURB
—4000—	6" CURB AND GUTTER

BENCHMARK
BENCHMARK LOCATED AT THE CENTERLINE INTERSECTION OF COPPER TOWN DRIVE AND MESQUITE HILLS DRIVE. ELEV.=4013.08

DATE	REVISIONS	BY
07/06/16	AS PER CITY REDLINES COMMENTS	E.J.

PROJECT NAME
MESQUITE HILLS UNIT 8

BEING PORTION OF TRACT 6C, SECTION 16, AND PORTION OF TRACTS 1D AND 1E, SECTION 17, BLOCK 80, TOWNSHIP 1, TEXAS AND PACIFIC RAILROAD CO. SURVEYS, CITY OF EL PASO, EL PASO COUNTY, TEXAS CONTAINING: 37.031 ACRES

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

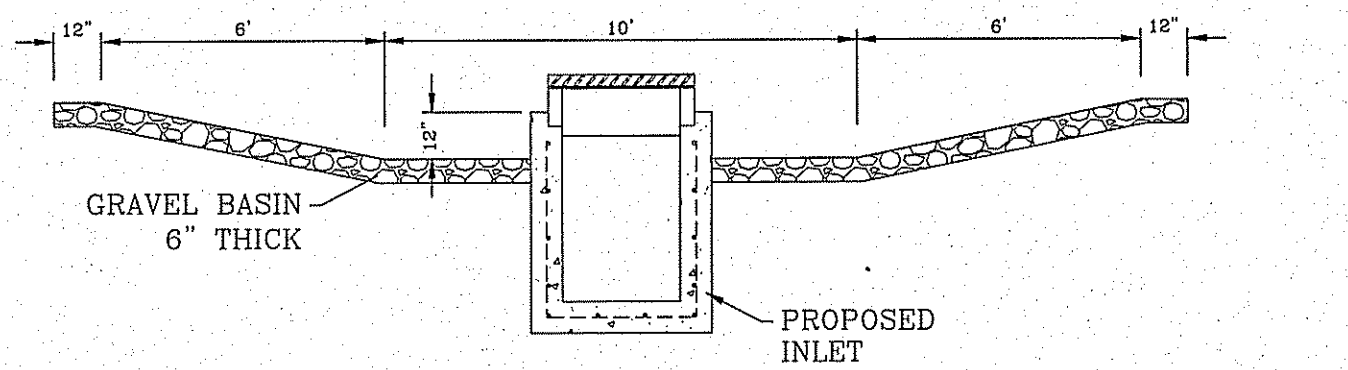
DATE: FEB. 2016
DESIGN BY: Y.C.
INITIATED BY: E.J.
CHECKED BY: Y.C.
JOB NO.: 113-30

ENGINEER'S SEAL

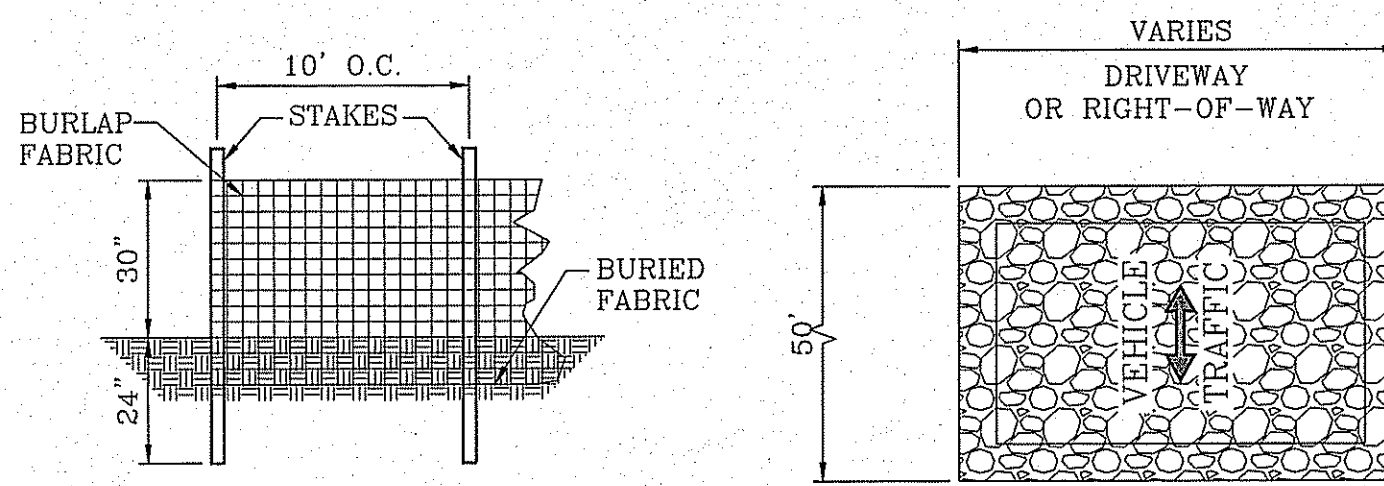
CONDE INC.
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REGISTRATION No. F-2321
SHEET TITLE
DRAINAGE PLAN
SHT 6 OF 30

FILE LOCATION S:\Subdivisions\MESQUITE HILLS 8\DWG\MESQUITE HILLS 8 - GPPL PLOTTED ON Thursday, November 17, 2016 2:08:26 PM BY ESTEBAN JUAREZ

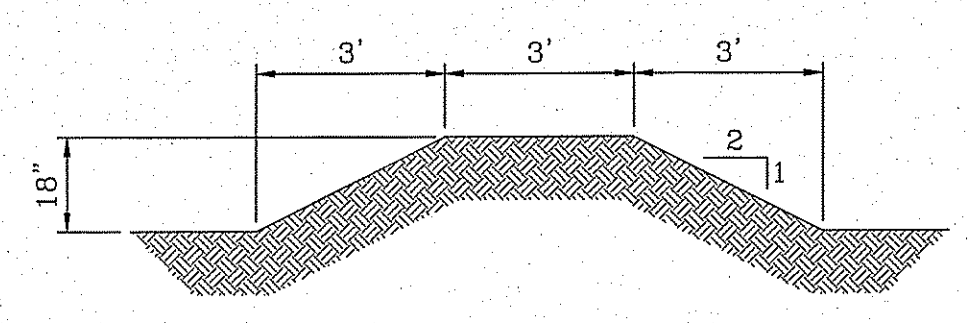


TEMPORARY STRUCTURE DESILTING BASIN
SCALE: 1"=4'

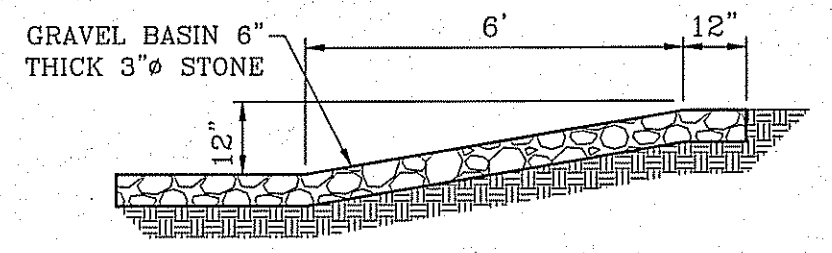


TYPICAL SILT FENCE
SCALE: 1"=3'

GRAVEL ENTRANCE
SCALE: 1"=3'



TYPICAL BERM
SCALE: 1"=3'

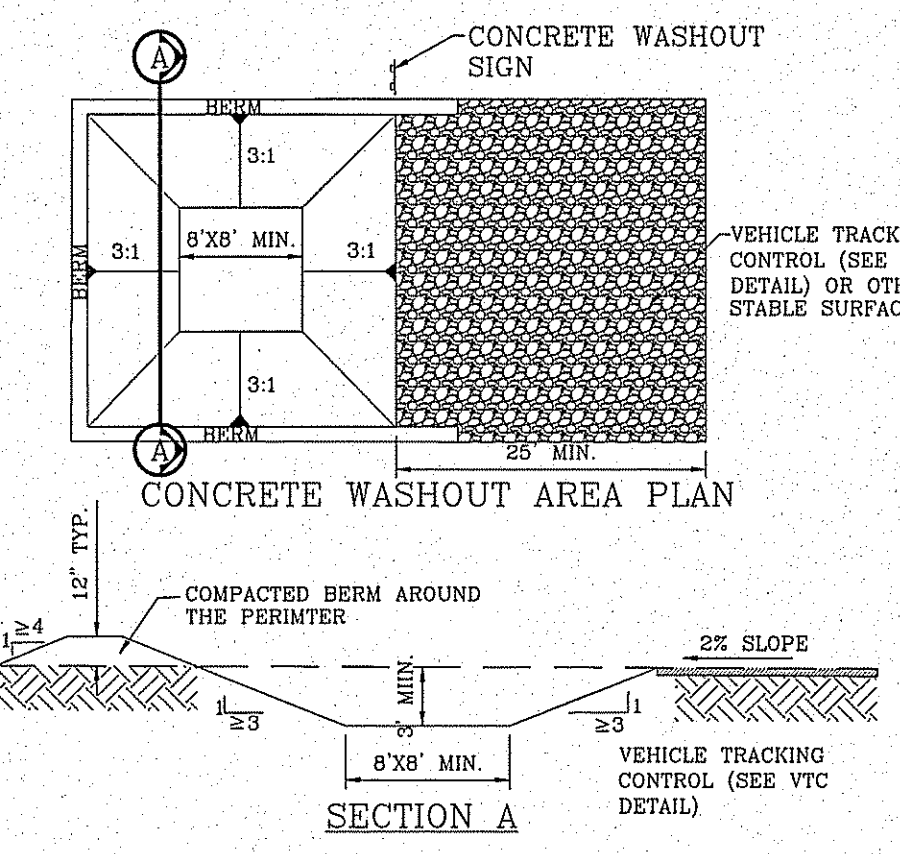
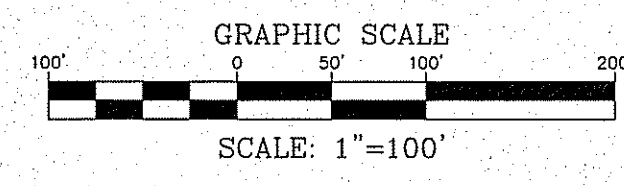
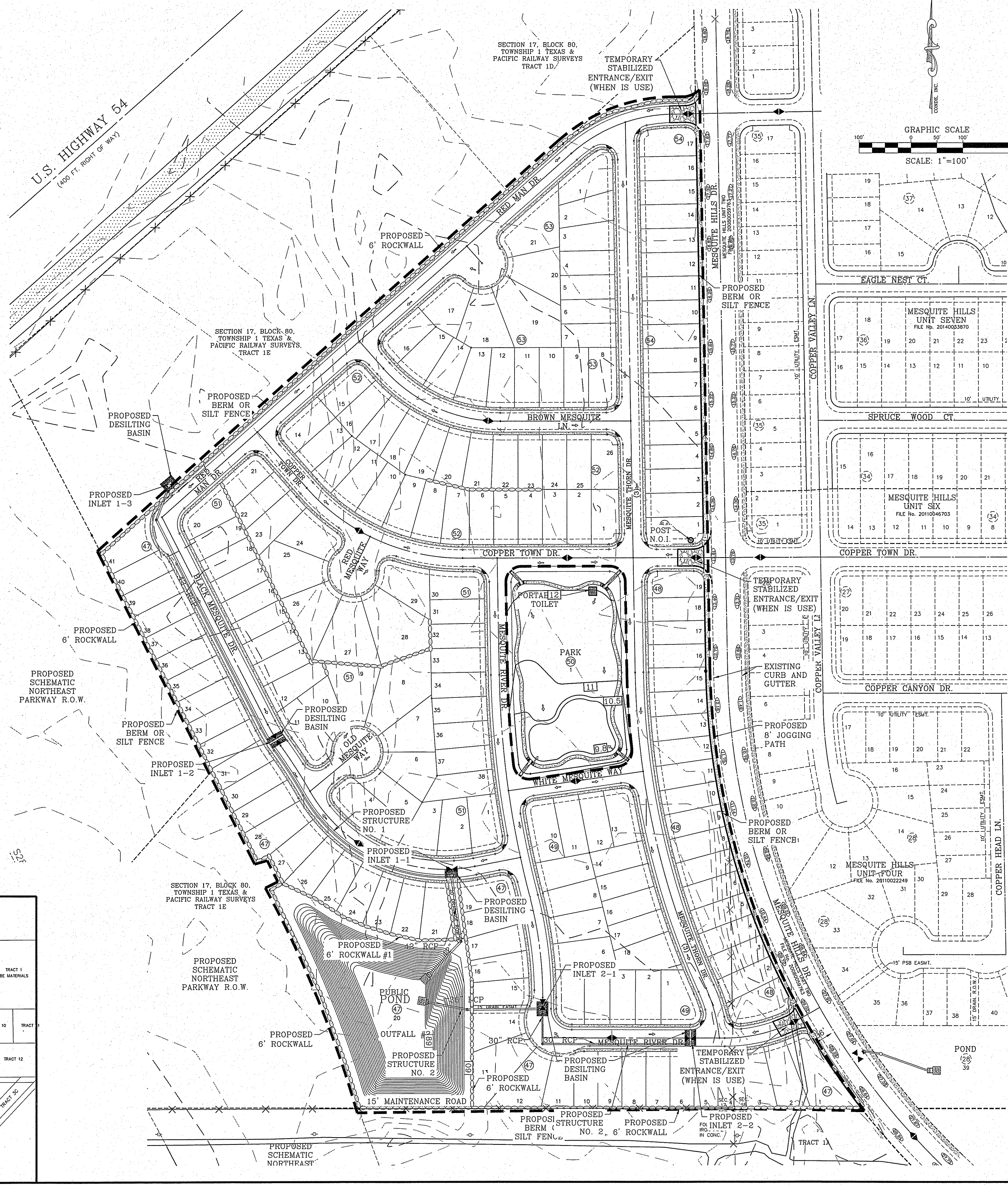
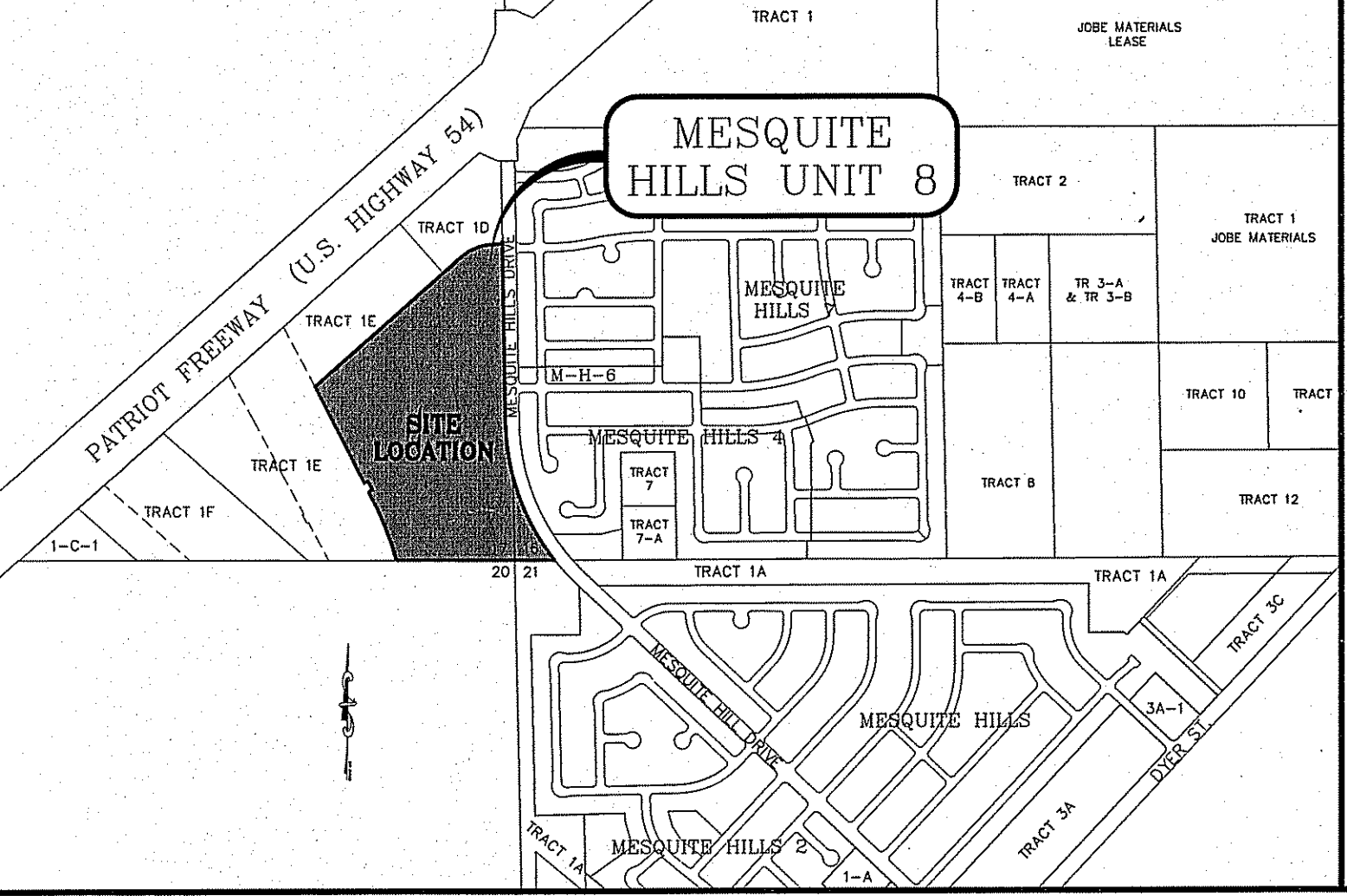


SECTION EROSION AND SEDIMENT CONTROLS TEMPORARY STABILIZATION
SCALE: 1"=3'

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.

LOCATION MAP SCALE: 1" = 1000'



CWA-1. CONCRETE WASHOUT AREA

CWA INSTALLATION NOTES

1. SEE PLAN VIEW FOR: -CWA INSTALLATION LOCATION
2. DO NOT LOCATE AN UNLINED CWA WITHIN 400' OF ANY NATURAL DRAINAGE PATHWAY OR WATERBODY. DO NOT LOCATE WITHIN 1000' OF ANY WELLS OR DRINKING WATER SOURCES. IF THE CWA MUST BE INSTALLED WITH AN IMPERMEABLE LINER (16 MIL MIN. THICKNESS) OR SURFACE STORAGE ALTERNATIVES USING PREFABRICATED CONCRETE WASHOUT DEVICES OR A LINED ABOVE GROUND STORAGE SHOULD BE USED.
3. THE CWA SHALL BE INSTALLED PRIOR TO CONCRETE PLACEMENT ON SITE.
4. CWA SHALL INCLUDE A FLAT SUBSURFACE PIT THAT IS AT LEAST 8' BY 8' SLOPES LEADING OUT OF THE SUBSURFACE PIT SHALL BE 3:1 OR FLATTER. THE PIT SHALL BE AT LEAST 3' DEEP.
5. BERM SURROUNDING SIDES AND BACK SHALL HAVE A MINIMUM HEIGHT OF 1'.
6. VEHICLE TRACKING PAD SHALL BE SLOPED 2% TOWARD THE CWA.
7. SIGNS SHALL BE PLACED AT THE CONSTRUCTION ENTRANCE AT THE CWA AND ELSEWHERE AS NECESSARY TO CLEARLY INDICATE THE LOCATION OF THE CWA TO OPERATORS OF CONCRETE TRUCKS AND PUMP RIGS.
8. USE EXCAVATED MATERIAL FOR PERIMETER BERM CONSTRUCTION.



NOTE:
STAGING AREA AND CONTAINMENT AREA LOCATED OFF-SITE

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

LEGEND

- FF=0.67 PROPOSED FINISH FLOOR
- FG=00.00 PROPOSED FINISH GROUND
- 00.00 PROPOSED SPOT ELEVATION
- ▲ HIGH POINT
- ▼ LOW POINT
- 4000 EXISTING CONTOUR
- 4000 EXISTING SPOT ELEVATION
- 4000 PROPOSED CONTOUR
- PROPOSED RETAINING WALL, RETAINING OVER 2'
- PROPOSED SILT FENCE
- Q RUN-OFF QUANTITY (CUBIC Ft/Sec)
- A WATERSHED AREA (ACRES)
- ⇒ DRAINAGE FLOW

BENCHMARK	BENCHMARK LOCATED AT THE CENTERLINE INTERSECTION OF COPPER TOWN DRIVE AND MESQUITE HILLS DRIVE. ELEV.=4013.08
REVISIONS	DATE 07/06/16 AS PER CITY REDLINES COMMENTS
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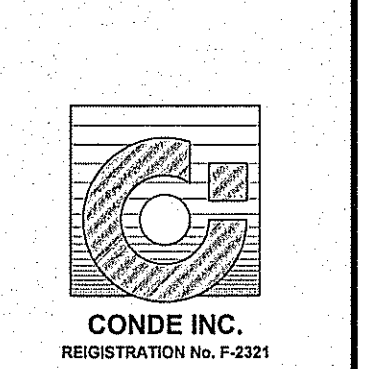
PROJECT NAME
MESQUITE HILLS UNIT 8

BEING PORTION OF TRACT 8C, SECTION 16 AND PORTION OF TRACTS 10 AND 11, TOWNSHIP 1 TEXAS & PACIFIC RAILWAY CO. SURVEYS, TEXAS CITY OF EL PASO, EL PASO COUNTY, TEXAS CONTAINING: 37.031 ACRES

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

DATE: FEB. 2016
DESIGN BY: Y.C.
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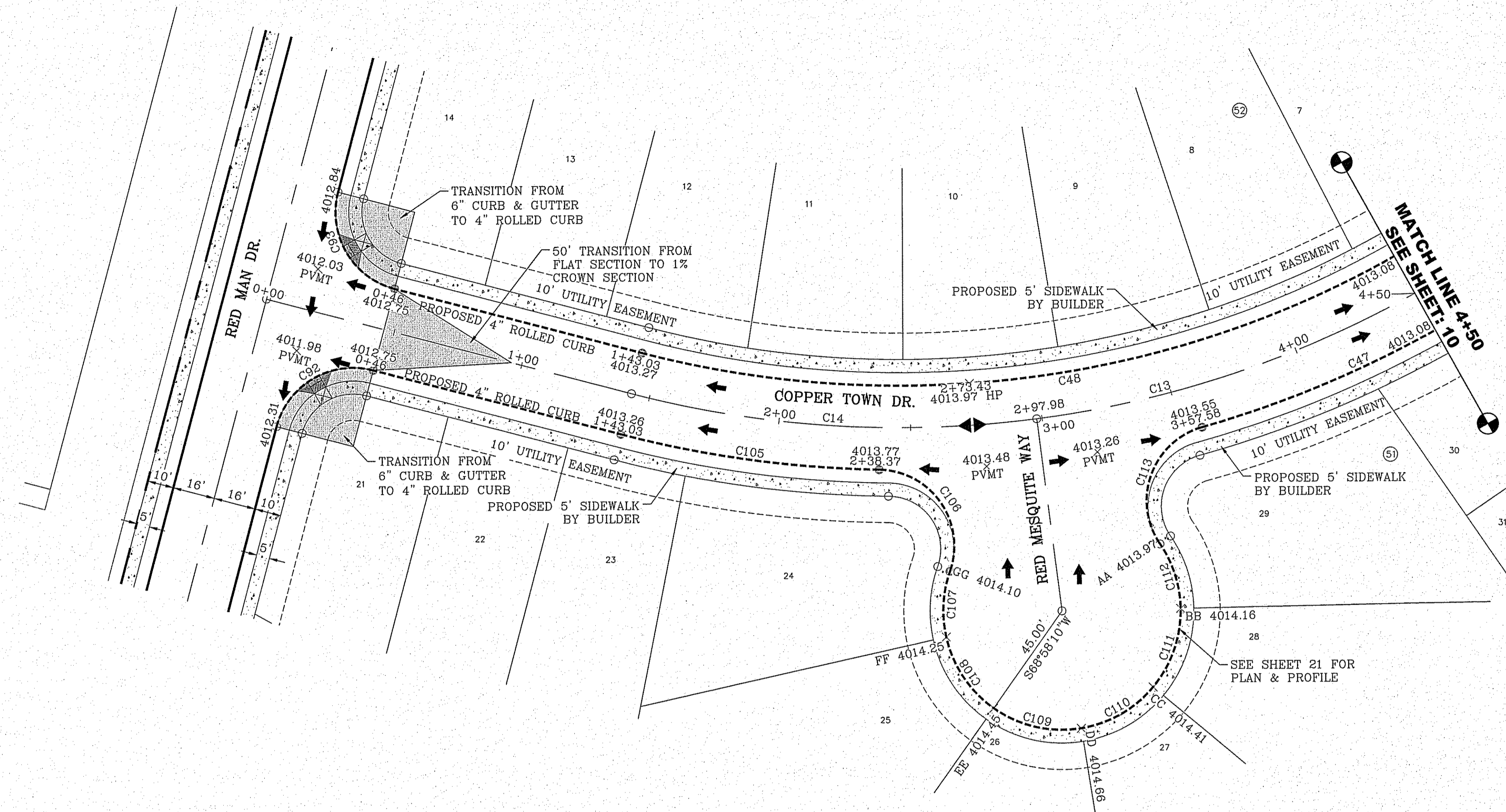
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PHONE: (915) 582-0283
FAX: (915) 582-0286



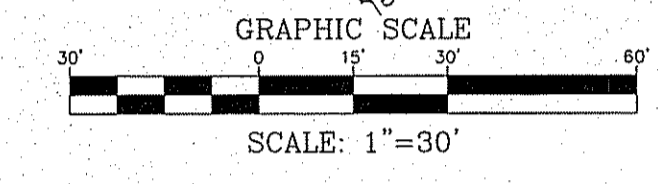
STORMWATER POLLUTION PREVENTION PLAN

SHT 7 OF 30

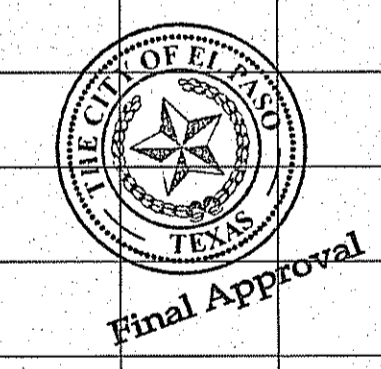
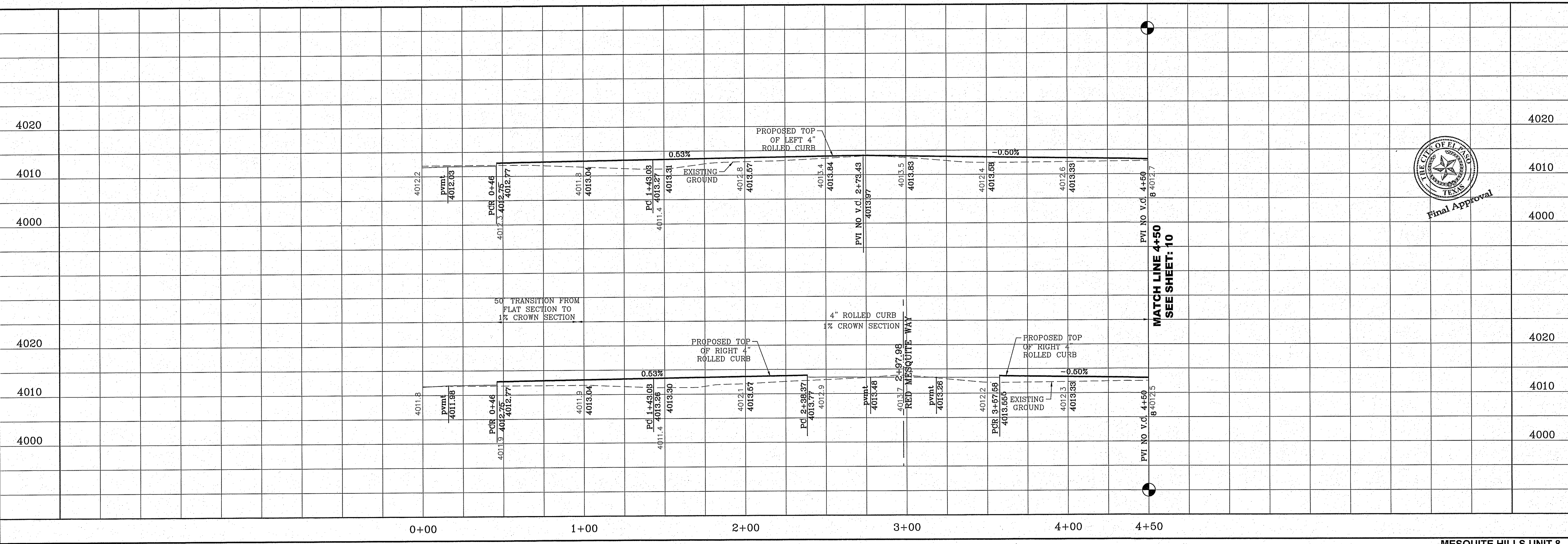
FILE LOCATION S:\Subdivisions\MESQUITE HILLS 8\DWG\MESQUITE HILLS 8 - PP_COPPER TOWN PLOTTED ON Thursday, November 17, 2016 2:09:26 PM BY ESTEBAN JUAREZ



CURVE TABLE						
CURVE	RADIUS	LENGTH	TANGENT	CHORD	BEARING	DELTA
C13	400.00'	184.45'	93.89'	182.82'	S76°52'35"E	26°25'14"
C14	400.00'	154.95'	78.46'	153.98'	S52°34'08"E	22°11'40"
C47	416.00'	129.84'	65.45'	129.31'	S81°08'43"E	17°52'57"
C48	384.00'	325.82'	173.44'	316.14'	S65°46'45"E	48°36'54"
C92	30.00'	47.12'	30.00'	42.43'	N86°28'18"W	90°00'00"
C93	30.00'	47.12'	30.00'	42.43'	S3°31'42"W	90°00'00"
C105	416.00'	99.15'	49.81'	98.92'	S48°17'59"E	13°39'23"
C106	29.00'	54.78'	40.09'	46.99'	N1°00'39"W	108°14'03"
C107	45.00'	25.13'	12.90'	24.80'	S37°06'38"W	31°59'29"
C108	45.00'	33.10'	17.34'	32.36'	S0°02'31"W	42°08'43"
C109	45.00'	34.97'	18.42'	34.10'	S43°17'39"E	44°31'37"
C110	45.00'	32.14'	16.79'	31.46'	S86°01'14"E	40°55'32"
C111	45.00'	32.14'	16.79'	31.46'	N53°03'14"E	40°55'32"
C112	45.00'	25.94'	13.34'	25.58'	N16°04'35"E	33°01'46"
C113	29.00'	54.78'	40.09'	46.99'	S53°40'44"W	108°14'03"



- LEGEND**
- DIRECTIONAL RAMP
 - WEDGE RAMP
 - RAMP AT PARK
 - LOW POINT
 - HIGH POINT
 - FLOW DIRECTION



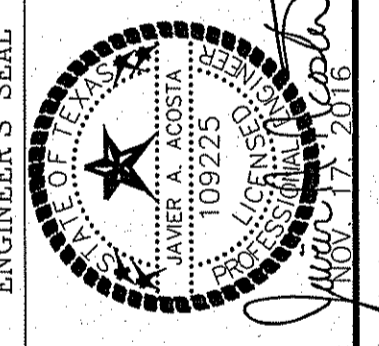
Final Approval

BENCHMARK LOCATED AT THE CENTERLINE INTERSECTION OF COPPER TOWN DRIVE AND MESQUITE HILLS DRIVE. ELEV.=4013.08

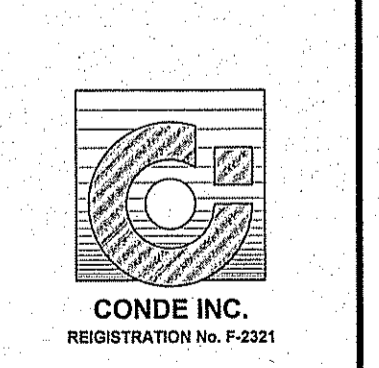
DATE	REVISIONS	BY

MESQUITE HILLS UNIT 8
 BEING PORTION OF TRACT 6C, SECTION 16 AND PORTION OF TRACTS 6A AND 6B, BLOCK 1, SURVEYED AND PLATTED BY JAMES A. ACOSTA, LICENSED SURVEYOR, CITY OF EL PASO, EL PASO COUNTY, TEXAS. CONTAINING: 37.031 ACRES

SCALE
 HORIZ: 1" = 30'
 VERT: 1" = 10'
 DATE: FEB. 2016
 DESIGN BY: Y.C.
 INITIATED BY: E.J.
 CHECKED BY: Y.C.
 JOB NO.: 113-30

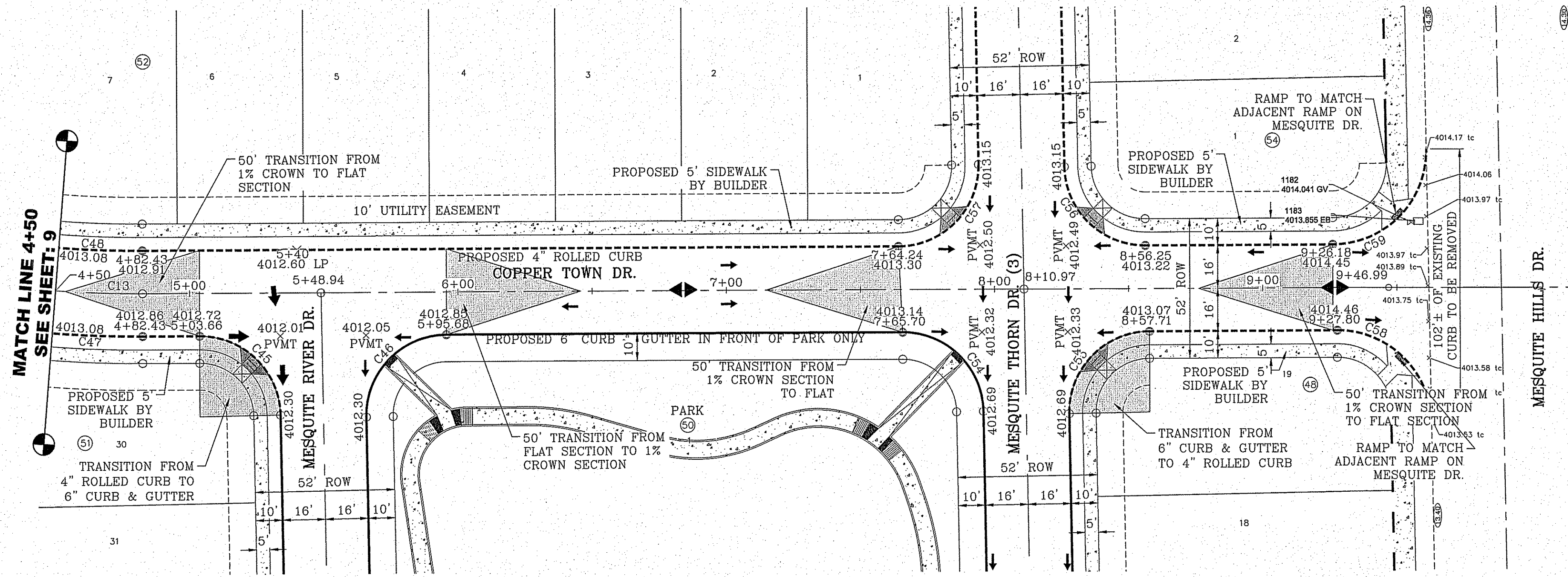


CONDE INC.
 ENGINEERING / PLANNING
 SURVEYING / GPS
 6080 SURETY DR. STE 100
 EL PASO, TEXAS 79905
 PHONE: (915) 592-0283
 FAX: (915) 592-0286

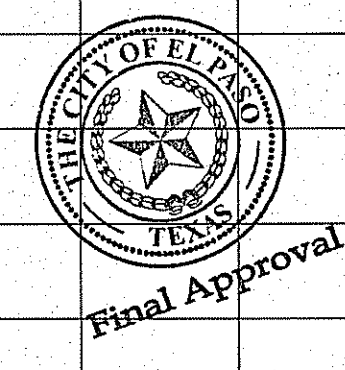
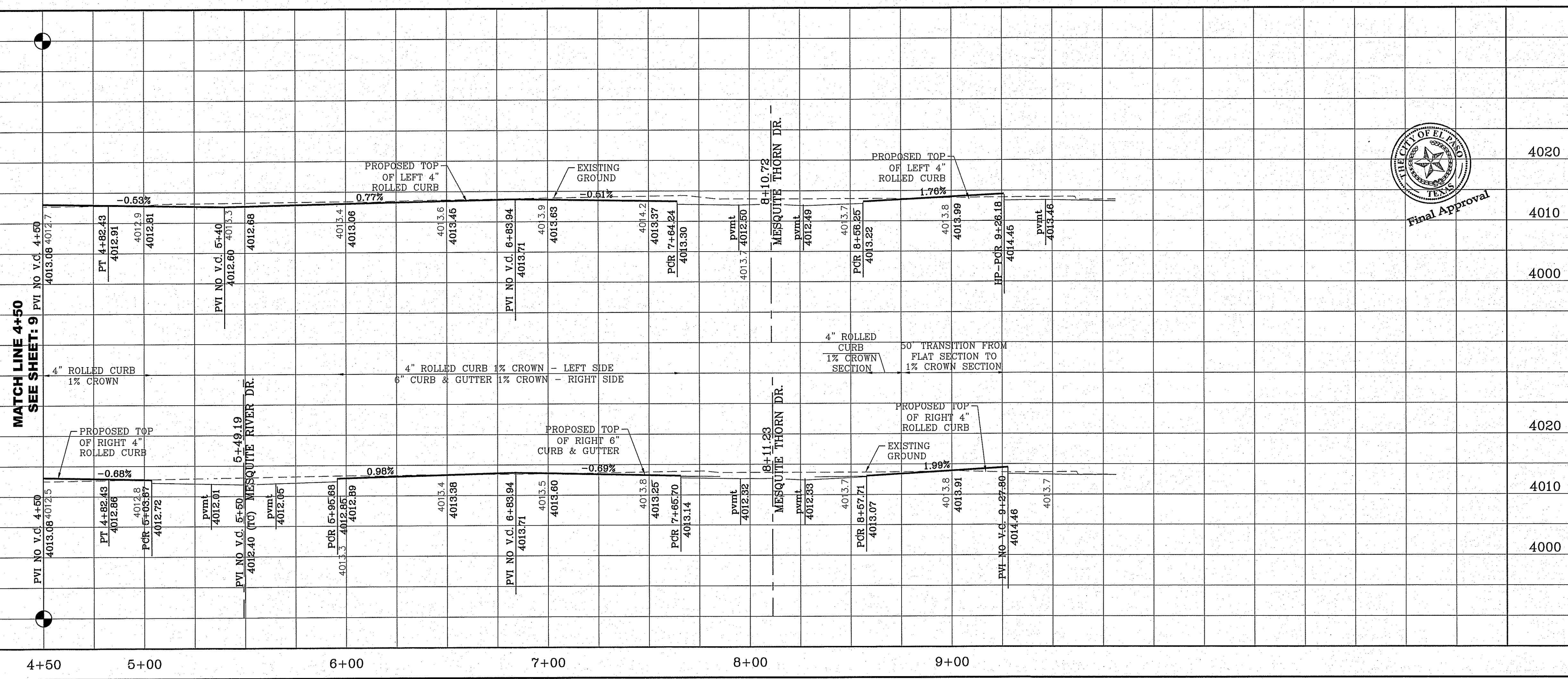
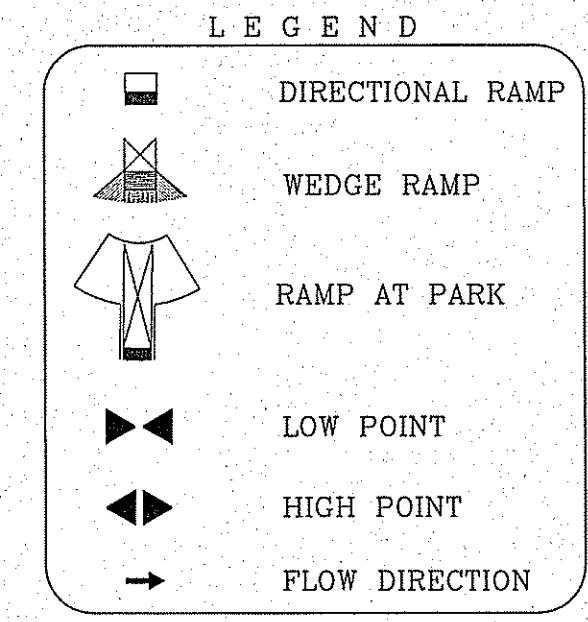
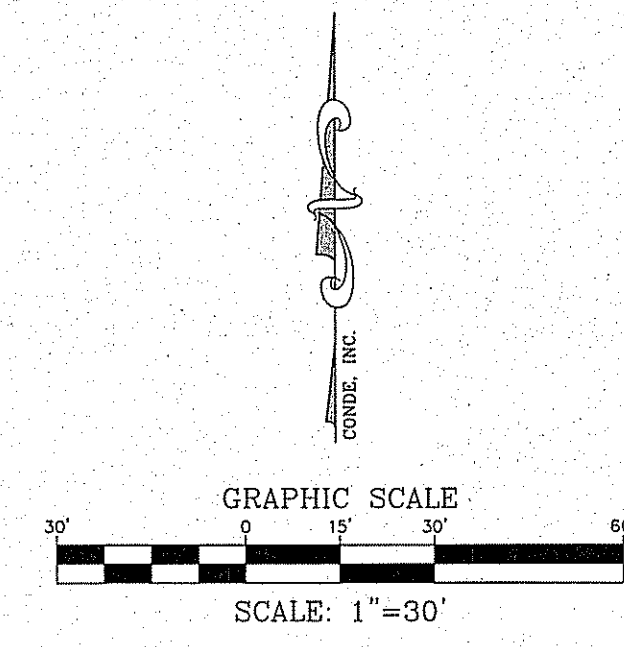


SHEET TITLE
 STREET
 PLAN-PROFILE
COPPER TOWN DR.
 STA: 0+00 TO
 STA: 4+50

FILE LOCATION S:\Subdivisions\MESQUITE HILLS 8\DWG\MESQUITE HILLS 8 - PP-COPPER TOWN PLOTTED ON Thursday, November 17, 2016 2:09:37 PM BY ESTEBAN JUAREZ



CURVE TABLE						
CURVE	RADIUS	LENGTH	TANGENT	CHORD	BEARING	DELTA
C13	400.00'	184.45'	93.89'	182.82'	S76°52'35"E	26°25'14"
C45	30.00'	46.65'	29.53'	42.09'	N45°32'27"W	89°05'30"
C46	30.00'	47.60'	30.48'	42.76'	S44°27'33"W	90°54'30"
C47	416.00'	129.84'	65.45'	129.31'	S81°08'43"E	17°52'57"
C48	384.00'	325.82'	173.44'	316.14'	S65°46'45"E	48°36'54"
C54	30.00'	46.65'	29.53'	42.09'	N45°32'27"W	89°05'30"
C55	30.00'	47.60'	30.48'	42.76'	S44°27'33"W	90°54'30"
C56	30.00'	46.65'	29.53'	42.09'	S45°32'27"E	89°05'30"
C57	30.00'	47.60'	30.48'	42.76'	N44°27'33"E	90°54'30"
C58	35.00'	54.42'	34.45'	49.10'	N45°32'27"W	89°05'30"
C59	35.00'	55.53'	35.56'	49.89'	N44°27'33"E	90°54'30"



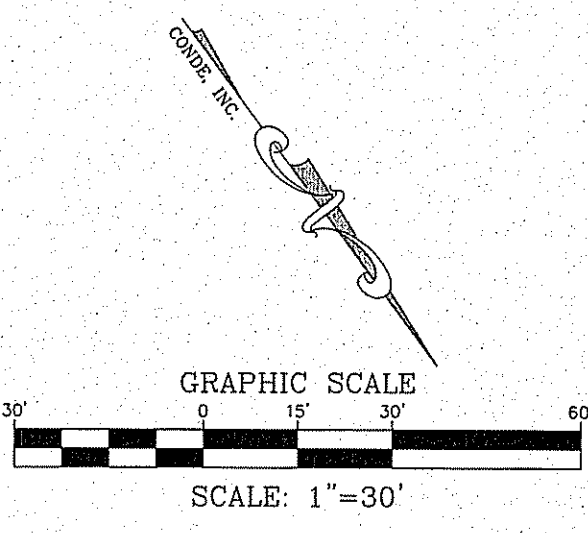
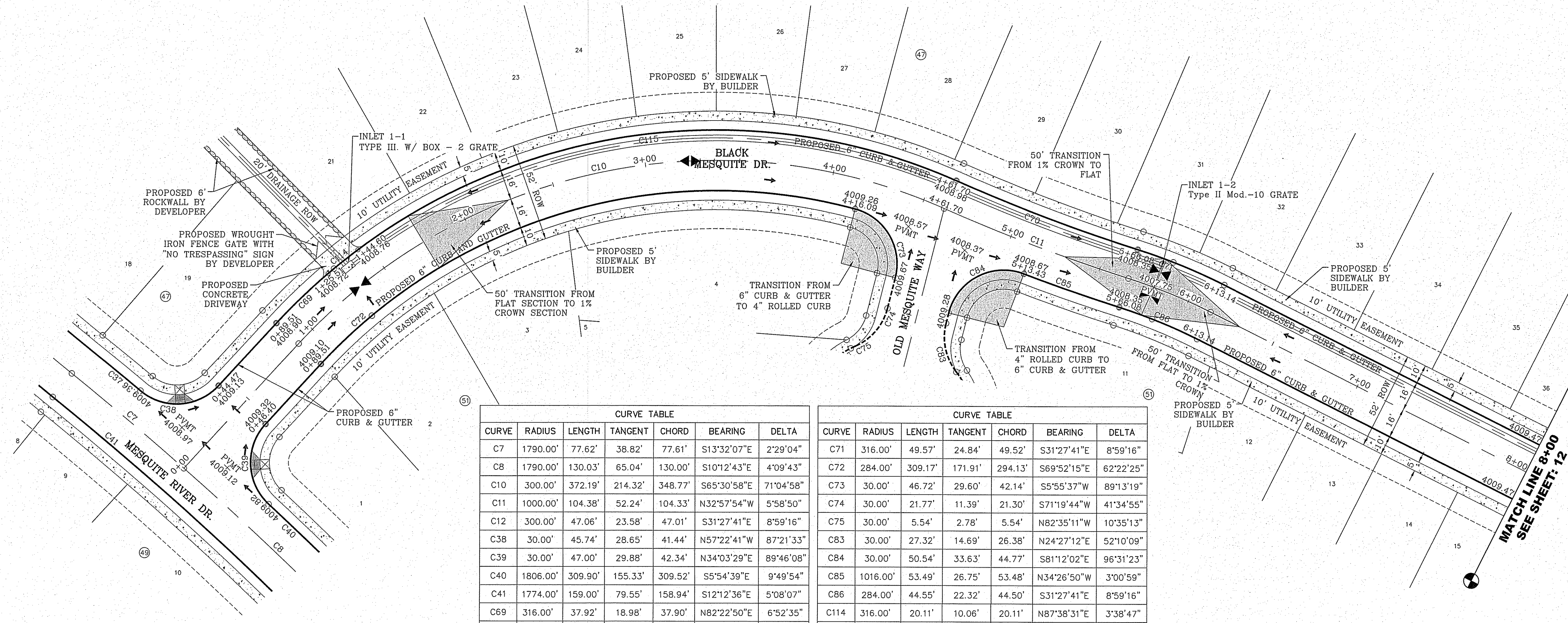
REVISIONS	
DATE	BY

MESQUITE HILLS UNIT 8
 BEING PORTION OF TRACT 6C, SECTION 16 AND PORTION OF TRACTS 1D AND 1E, SECTION 17, BLOCK 60, TOWNSHIP 1, TEXAS AND PACIFIC RAILROAD CO. SURVEYS, CITY OF EL PASO, EL PASO COUNTY, TEXAS CONTAINING: 37.031 ACRES

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

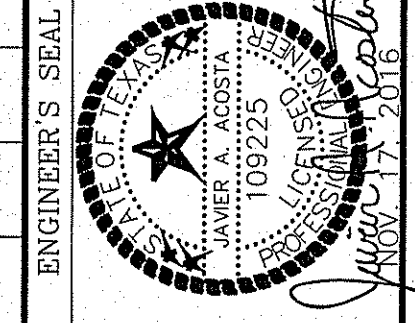
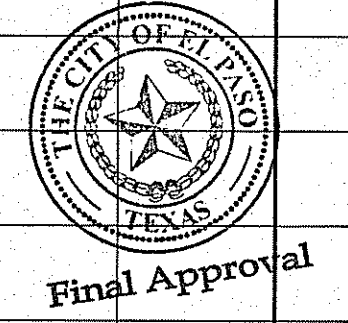
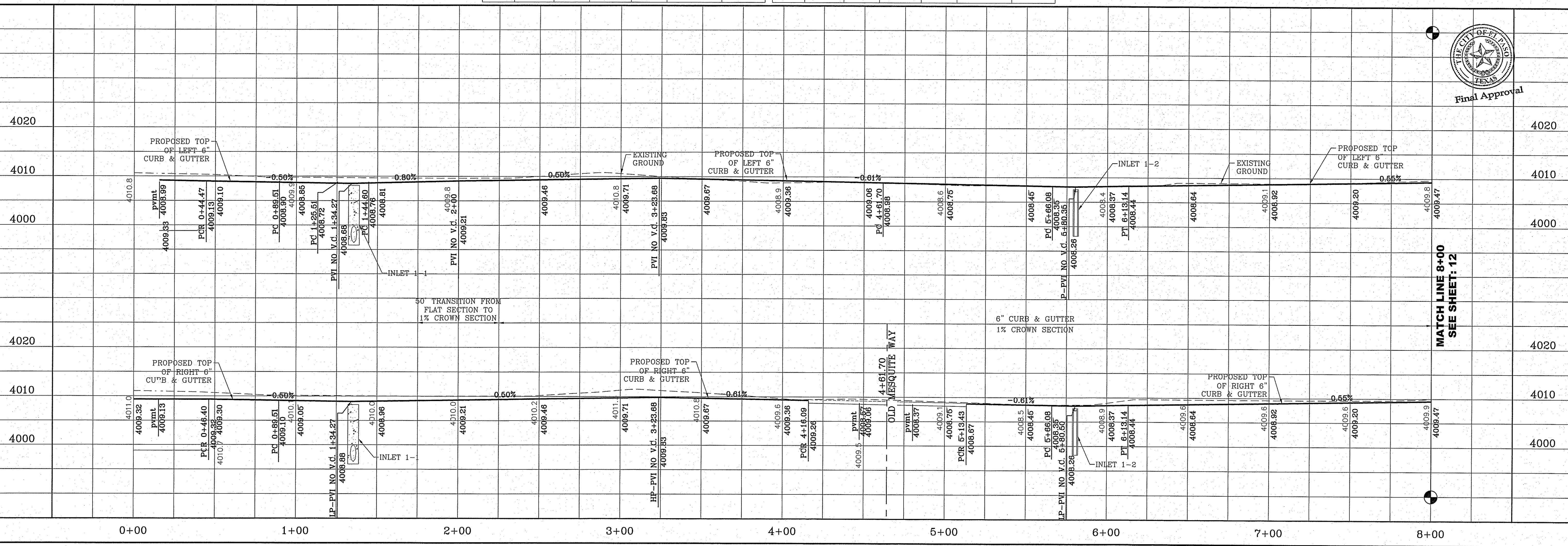
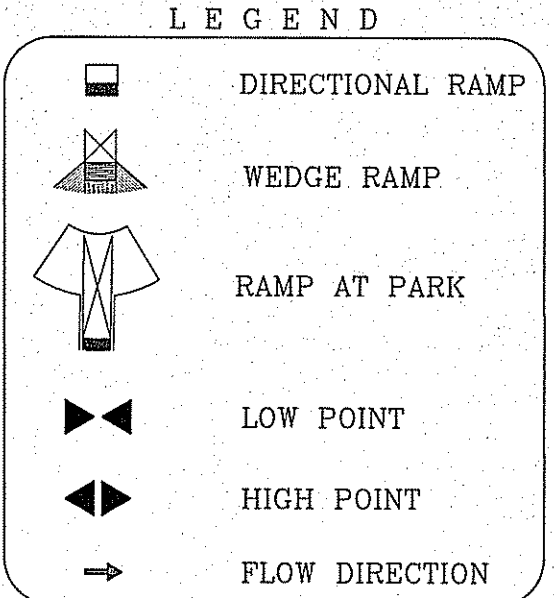
COPPER TOWN DR. (2)
 STA: 4+50 TO END
 SHT 10 OF 30

FILE LOCATION S:\Subdivisions\MESQUITE HILLS 8.DWG MESQUITE HILLS 8 - PP_RED MAN PLOTTED ON Thursday, November 17, 2016 2:10:21 PM BY ESTEBAN JUAREZ

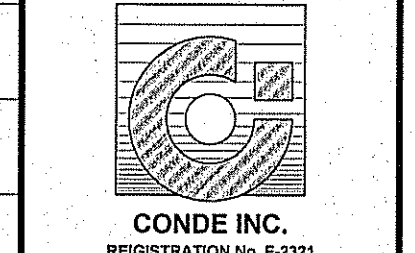


CURVE	RADIUS	LENGTH	TANGENT	CHORD	BEARING	DELTA
C7	1790.00'	77.62'	38.82'	77.61'	S13°32'07"E	2°29'04"
C8	1790.00'	130.03'	65.04'	130.00'	S10°12'43"E	4°09'43"
C10	300.00'	372.19'	214.32'	348.77'	S65°30'58"E	71°04'58"
C11	1000.00'	104.38'	52.24'	104.33'	N32°57'54"W	5°58'50"
C12	300.00'	47.06'	23.58'	47.01'	S31°27'41"E	8°59'16"
C38	30.00'	45.74'	28.65'	41.44'	N57°22'41"W	87°21'33"
C39	30.00'	47.00'	29.88'	42.34'	N34°03'29"E	89°46'08"
C40	1806.00'	309.90'	155.33'	309.52'	S5°54'39"E	9°49'54"
C41	1774.00'	159.00'	79.55'	158.94'	S12°12'36"E	5°08'07"
C69	316.00'	37.92'	18.98'	37.90'	N82°22'50"E	6°52'35"
C70	984.00'	102.71'	51.40'	102.66'	N32°57'54"W	5°58'50"

CURVE	RADIUS	LENGTH	TANGENT	CHORD	BEARING	DELTA
C71	316.00'	49.57'	24.84'	49.52'	S31°27'41"E	8°59'16"
C72	284.00'	309.17'	171.91'	294.13'	S69°52'15"E	62°22'25"
C73	30.00'	46.72'	29.60'	42.14'	S5°55'37"W	89°13'19"
C74	30.00'	21.77'	11.39'	21.30'	S71°19'44"W	41°34'55"
C75	30.00'	5.54'	2.78'	5.54'	N82°35'11"W	10°35'13"
C83	30.00'	27.32'	14.69'	26.38'	N24°22'12"E	52°10'09"
C84	30.00'	50.54'	33.63'	44.77'	S81°12'02"E	96°31'23"
C85	1016.00'	53.49'	26.75'	53.48'	N34°26'50"W	3°00'59"
C86	284.00'	44.55'	22.32'	44.50'	S31°27'41"E	8°59'16"
C114	316.00'	20.11'	10.06'	20.11'	N87°38'31"E	3°38'47"
C115	316.00'	334.00'	184.51'	318.67'	S60°15'17"E	60°33'37"



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



SHEET TITLE
**STREET
PLAN-PROFILE**
**BLACK
MESQUITE DR.**
STA: 0+00 TO
STA: 8+00

BENCHMARK
BENCHMARK LOCATED AT THE CENTERLINE INTERSECTION OF
COPPER TOWN DRIVE AND MESQUITE HILLS DRIVE.
ELEV.=4015.08

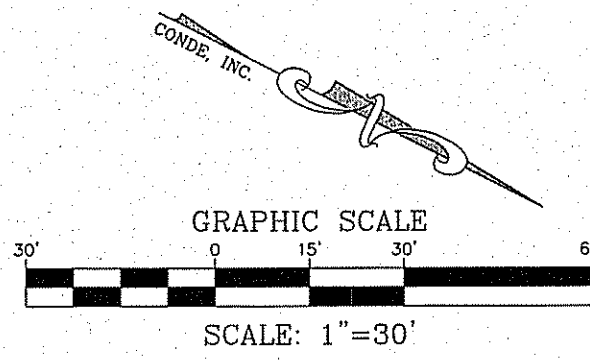
DATE	07/06/16
BY	E.J.
REVISIONS	AS PER CITY REDLINES COMMENTS

PROJECT NAME
MESQUITE HILLS UNIT 8
BRING PORTION OF TRACT 6C, SECTION 16 AND PORTION OF
TRACTS 1D AND 1E, SECTION 17, BLOCK 80, TOWNSHIP 1,
TEXAS AND PACIFIC RAILROAD CO. SURVEYS,
CITY OF EL PASO, EL PASO COUNTY, TEXAS
CONTAINING: 37.031 ACRES

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

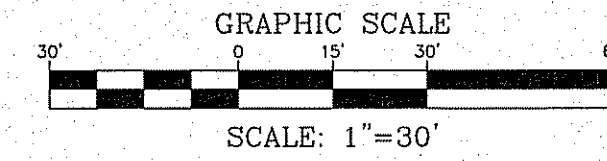
DATE: FEB. 2016
DESIGN BY: Y.C.
INITIATED BY: E.J.
CHECKED BY: Y.C.
JOB NO.: 113-30

FILE LOCATION S:\Subdivisions\MESQUITE HILLS 8\DWG\MESQUITE HILLS 8 - PP-RED MAN PLOTTED ON Thursday, November 17, 2016 2:10:36 PM BY ESTEBAN JUAREZ



LEGEND

- DIRECTIONAL RAMP
- WEDGE RAMP
- RAMP AT PARK
- LOW POINT
- HIGH POINT
- FLOW DIRECTION

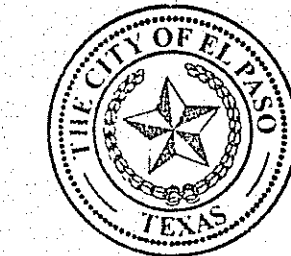
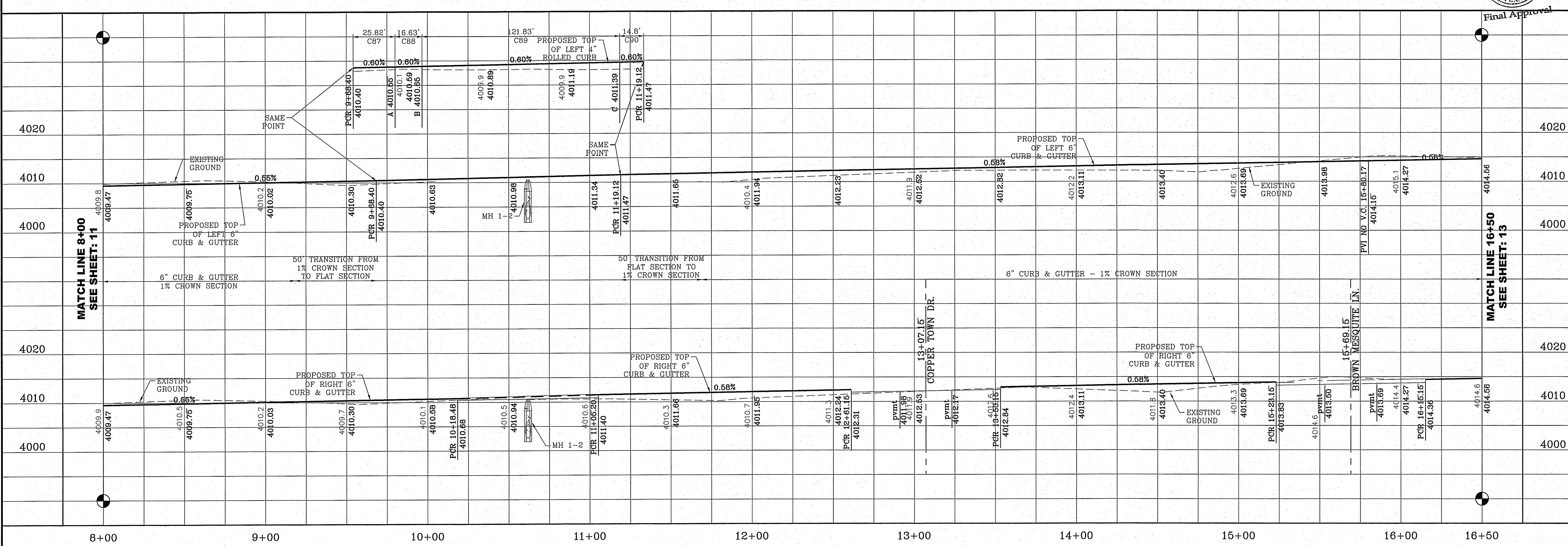
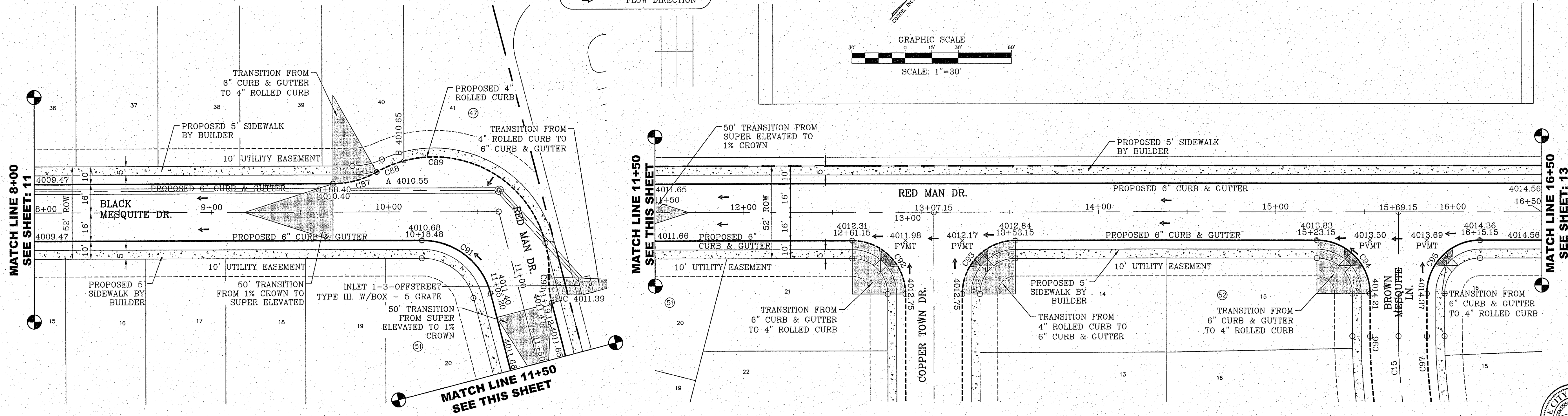


CURVE TABLE

CURVE	RADIUS	LENGTH	TANGENT	CHORD	BEARING	DELTA
C15	300.00'	254.55'	135.50'	246.98'	S65°46'45"E	48°36'54"
C87	50.00'	25.82'	13.21'	25.54'	N41°45'48"W	29°35'31"
C88	65.00'	16.63'	8.36'	16.58'	S49°13'50"E	14°39'26"
C89	65.00'	121.83'	88.47'	104.76'	S11°47'31"W	107°23'17"
C90	50.00'	14.80'	7.45'	14.74'	N57°00'26"E	16°57'27"
C91	40.00'	52.71'	30.97'	48.98'	S10°46'50"W	75°29'45"

CURVE TABLE

CURVE	RADIUS	LENGTH	TANGENT	CHORD	BEARING	DELTA
C92	30.00'	47.12'	30.00'	42.43'	N86°28'18"W	90°00'00"
C93	30.00'	47.12'	30.00'	42.43'	S3°31'42"W	90°00'00"
C94	30.00'	47.12'	30.00'	42.43'	N86°28'18"W	90°00'00"
C95	30.00'	47.12'	30.00'	42.43'	S3°31'42"W	90°00'00"
C96	316.00'	268.12'	142.73'	260.15'	S65°46'45"E	48°36'54"
C97	284.00'	240.97'	128.28'	233.81'	S65°46'45"E	48°36'54"



Final Approval

BENCHMARK

BENCHMARK LOCATED AT THE CENTERLINE INTERSECTION OF COPPER TOWN DRIVE AND MESQUITE HILLS DRIVE. ELEV = 4013.08

DATE	REVISIONS	BY

PROJECT NAME
MESQUITE HILLS UNIT 8

BEING PORTION OF TRACT 6C, SECTION 16 AND PORTION OF TRACTS 1D AND 1E, SECTION 17, BLOCK 80, TOWNSHIP 1, TEXAS AND PACIFIC RAILROAD CO. SURVEYS, CITY OF EL PASO, EL PASO COUNTY, TEXAS CONTAINING: 37.031 ACRES

SCALE

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

DATE: FEB. 2016
 DESIGN BY: Y.C.
 INITIATED BY: E.J.
 CHECKED BY: Y.C.
 JOB NO.: 119-30

ENGINEER'S SEAL

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

SHEET TITLE
 STREET
 PLAN - PROFILE

BLACK MESQUITE DR. - RED MAN DR.
 STA: 8+00 TO STA: 16+50

SHT 12 OF 30

FILE LOCATION S:\Subdivisions\MESQUITE HILLS 8 - PP_RED MAN PLOTTED ON Thursday, November 17, 2016 2:10:48 PM BY ESTEBAN JUAREZ

MATCH LINE 16+50
SEE SHEET: 12

MATCH LINE 16+50
SEE SHEET: 12

16+50

17+00

18+00

19+00

20+00

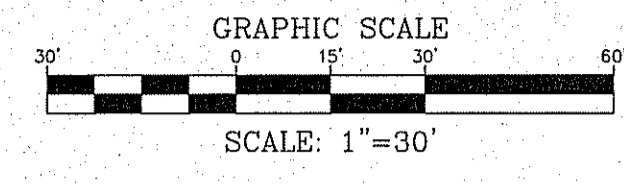
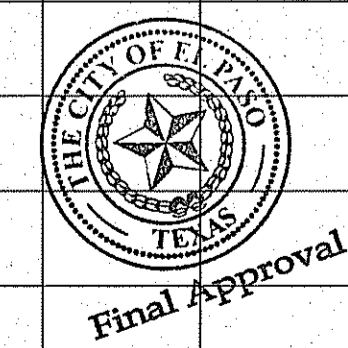
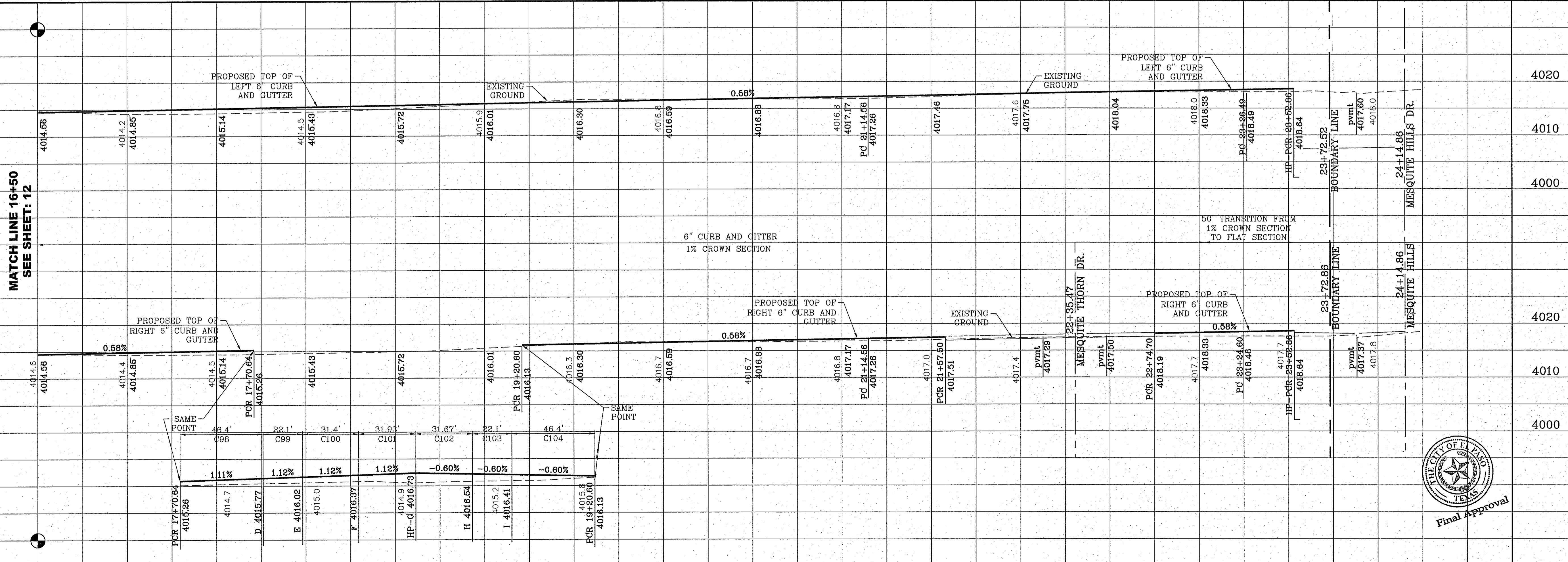
21+00

22+00

23+00

24+00

CURVE TABLE						CURVE TABLE							
CURVE	RADIUS	LENGTH	TANGENT	CHORD	BEARING	DELTA	CURVE	RADIUS	LENGTH	TANGENT	CHORD	BEARING	DELTA
C16	300.00'	120.91'	61.29'	120.10'	S60°04'29"W	23°05'34"	C68	35.00'	54.98'	35.00'	49.50'	N44°00'18"E	90°00'00"
C17	300.00'	91.02'	45.86'	90.67'	S80°18'47"W	17°23'02"	C98	30.00'	46.40'	29.28'	41.91'	N87°09'51"W	88°36'53"
C62	30.00'	64.02'	54.43'	52.55'	N62°07'57"W	122°16'30"	C99	45.00'	22.10'	11.28'	21.88'	S56°55'34"E	28°08'19"
C63	284.00'	40.65'	20.36'	40.62'	S52°37'45"W	8°12'06"	C100	45.00'	31.40'	16.37'	30.77'	N89°00'55"E	39°58'42"
C64	30.00'	41.94'	25.22'	38.61'	S39°03'34"W	80°06'31"	C101	45.00'	31.93'	16.67'	31.27'	N48°41'53"E	40°39'23"
C65	284.00'	47.24'	23.67'	47.18'	S83°52'44"W	9°31'49"	C102	45.00'	31.67'	16.52'	31.02'	N8°12'40"E	40°19'03"
C66	35.00'	54.98'	35.00'	49.50'	N45°59'42"W	90°00'00"	C103	45.00'	22.10'	11.28'	21.88'	N26°01'01"W	28°08'19"
C67	316.00'	223.24'	116.51'	218.62'	S68°46'00"W	40°28'36"	C104	30.00'	46.40'	29.28'	41.91'	S41°3'16"W	88°36'53"



LEGEND

- DIRECTIONAL RAMP
- WEDGE RAMP
- RAMP AT PARK
- LOW POINT
- HIGH POINT
- FLOW DIRECTION

BENCHMARK
BENCHMARK LOCATED AT THE CENTERLINE INTERSECTION OF COPPER TOWN DRIVE AND MESQUITE HILLS DRIVE. ELEV. = 403.08

REVISIONS
DATE 07/06/16 BY E.J.
AS PER CITY REDLINES COMMENTS

PROJECT NAME
MESQUITE HILLS UNIT 8

BEING PORTION OF TRACT 6C, SECTION 16 AND PORTION OF TRACTS 1D AND 1E, SECTION 17, BLOCK 80, TOWNSHIP 1, TEXAS AND PACIFIC RAILROAD CO. SURVEYS, CITY OF EL PASO, EL PASO COUNTY, TEXAS CONTAINING: 37.031 ACRES

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

DATE: FEB. 2016
DESIGN BY: Y.C.
INITIATED BY: E.J.
CHECKED BY: Y.C.
JOB NO.: 113-30

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

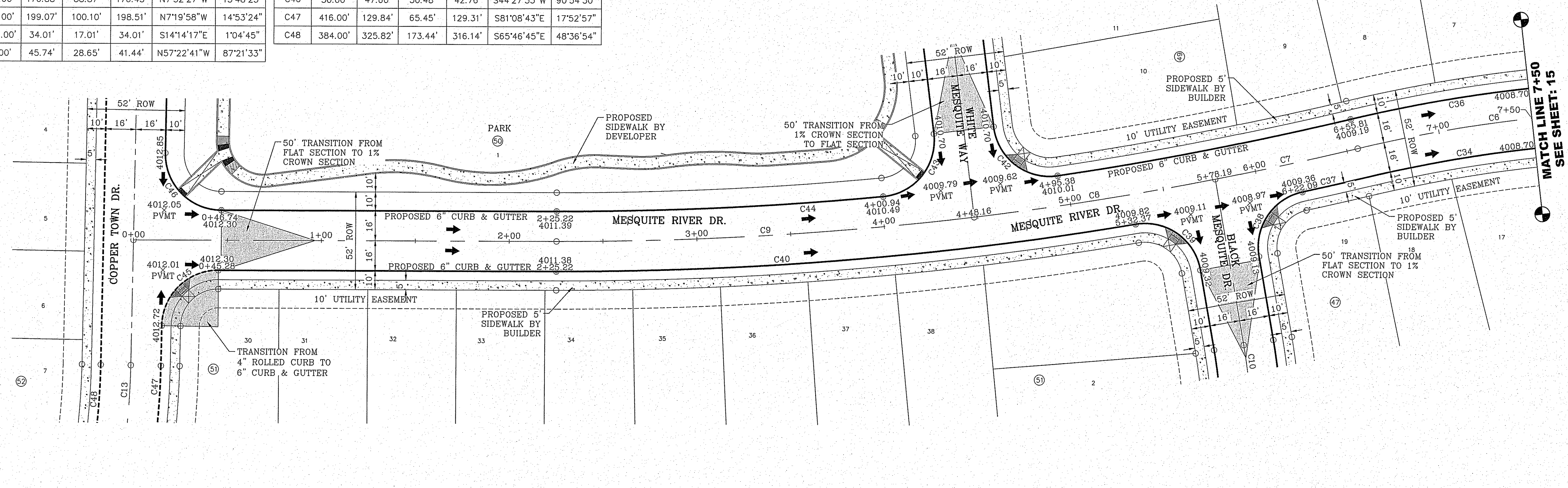
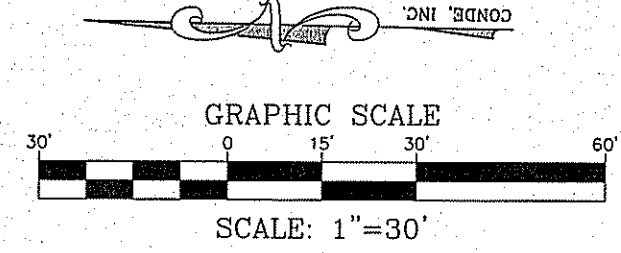
SHEET TITLE
STREET
PLAN - PROFILE
RED MAN DR.
STA: 16+50
TO END

SHT 13 OF 30

FILE LOCATION: S:\Subdivisions\MESQUITE HILLS 8\DWG\MESQUITE RIVER PLOTTED ON Thursday, November 17, 2016 2:11:34 PM BY ESTEBAN JUAREZ

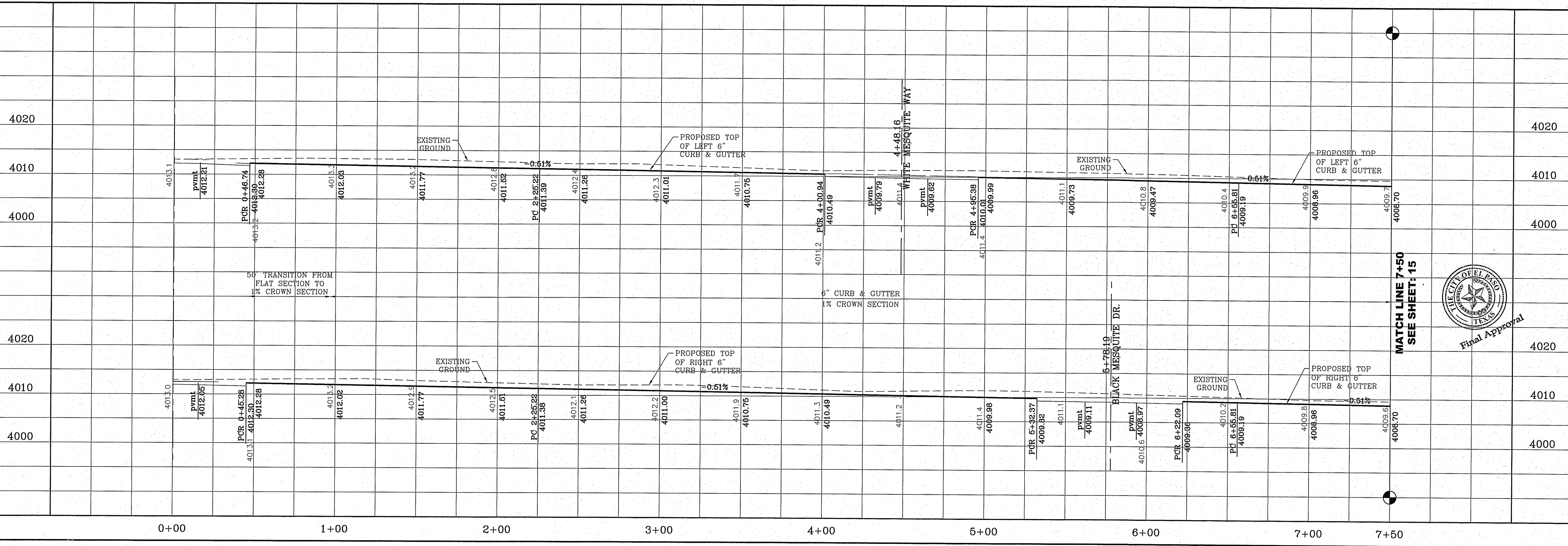
CURVE TABLE						
CURVE	RADIUS	LENGTH	TANGENT	CHORD	BEARING	DELTA
C6	750.00'	194.91'	98.01'	194.36'	N7°19'58"W	14°53'24"
C7	1790.00'	77.62'	38.82'	77.61'	S13°32'07"E	2°29'04"
C8	1790.00'	130.03'	65.04'	130.00'	S10°12'43"E	4°09'43"
C9	1790.00'	222.94'	111.61'	222.80'	S4°33'47"E	7°08'10"
C13	400.00'	184.45'	93.89'	182.82'	S76°52'35"E	26°25'14"
C10	300.00'	372.19'	214.32'	348.77'	S65°30'58"E	71°04'58"
C34	734.00'	176.88'	88.87'	176.45'	N7°52'27"W	13°48'25"
C36	766.00'	199.07'	100.10'	198.51'	N7°19'58"W	14°53'24"
C37	1806.00'	34.01'	17.01'	34.01'	S14°14'17"E	1°04'45"
C38	30.00'	45.74'	28.65'	41.44'	N57°22'41"W	87°21'33"

CURVE TABLE						
CURVE	RADIUS	LENGTH	TANGENT	CHORD	BEARING	DELTA
C39	30.00'	47.00'	29.88'	42.34'	N34°03'29"E	89°46'08"
C40	1806.00'	309.90'	155.33'	309.52'	S5°54'39"E	9°49'54"
C42	30.00'	47.92'	30.80'	42.98'	S36°06'48"W	91°30'41"
C43	30.00'	47.92'	30.80'	42.98'	S52°22'31"E	91°30'41"
C44	1774.00'	174.15'	87.15'	174.08'	S3°48'26"E	5°37'29"
C45	30.00'	46.65'	29.53'	42.09'	N45°32'27"W	89°05'30"
C46	30.00'	47.60'	30.48'	42.76'	S44°27'33"W	90°54'30"
C47	416.00'	129.84'	65.45'	129.31'	S81°08'43"E	17°52'57"
C48	384.00'	325.82'	173.44'	316.14'	S65°46'45"E	48°36'54"



LEGEND

- DIRECTIONAL RAMP
- WEDGE RAMP
- RAMP AT PARK
- LOW POINT
- HIGH POINT
- FLOW DIRECTION



BENCHMARK

BENCHMARK LOCATED AT THE CENTERLINE INTERSECTION OF COPPER TOWN DRIVE AND MESQUITE HILLS DRIVE. ELEV.=4013.08

DATE	REVISIONS	BY
07/06/16	AS PER CITY REDLINES COMMENTS	E.J.

MESQUITE HILLS UNIT 8

BEING PORTION OF TRACT 8C, SECTION 16 AND PORTION OF TRACTS 1D AND 1E, SECTION 17, BLOCK 80, TOWNSHIP 1, TEXAS AND PACIFIC RAILROAD CO. SURVEYS, CITY OF EL PASO, EL PASO COUNTY, TEXAS CONTAINING: 37.031 ACRES

SCALE

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

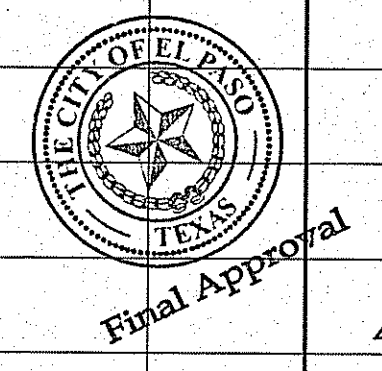
DATE: FEB. 2016
DESIGN BY: Y.C.
INITIATED BY: E.J.
CHECKED BY: Y.C.
JOB NO.: 113-30

ENGINEER'S SEAL

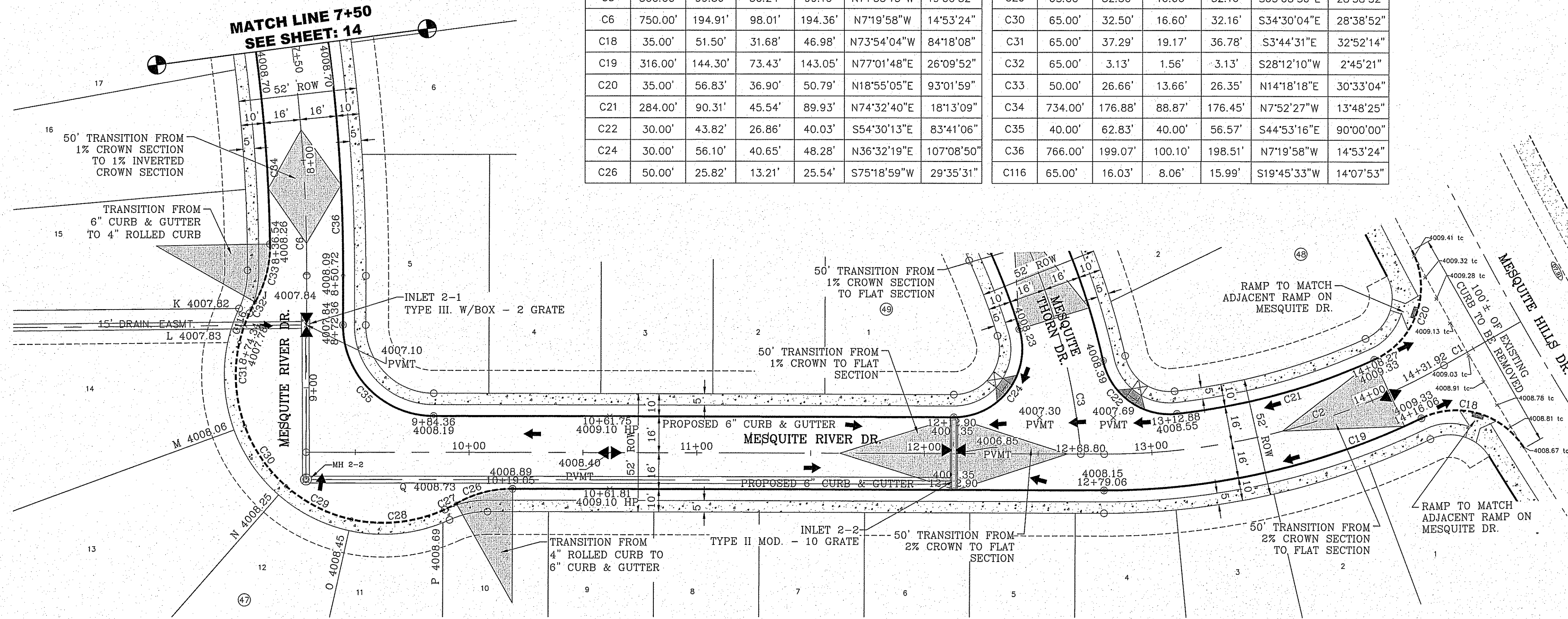
CONDE INC.
ENGINEERING / PLANNING
SURVEYING / GPS
6080 SURETY DR. STE 100
EL PASO, TEXAS 79905
PHONE: (915) 592-0283
FAX: (915) 592-0286

SHEET TITLE
STREET
PLAN-PROFILE

MESQUITE RIVER DR.
STA: 0+00 TO
STA: 7+50

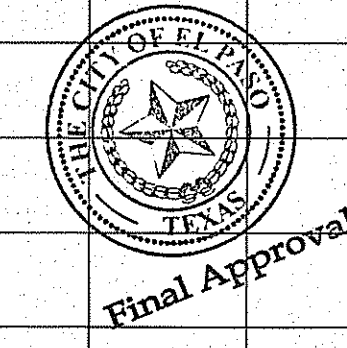
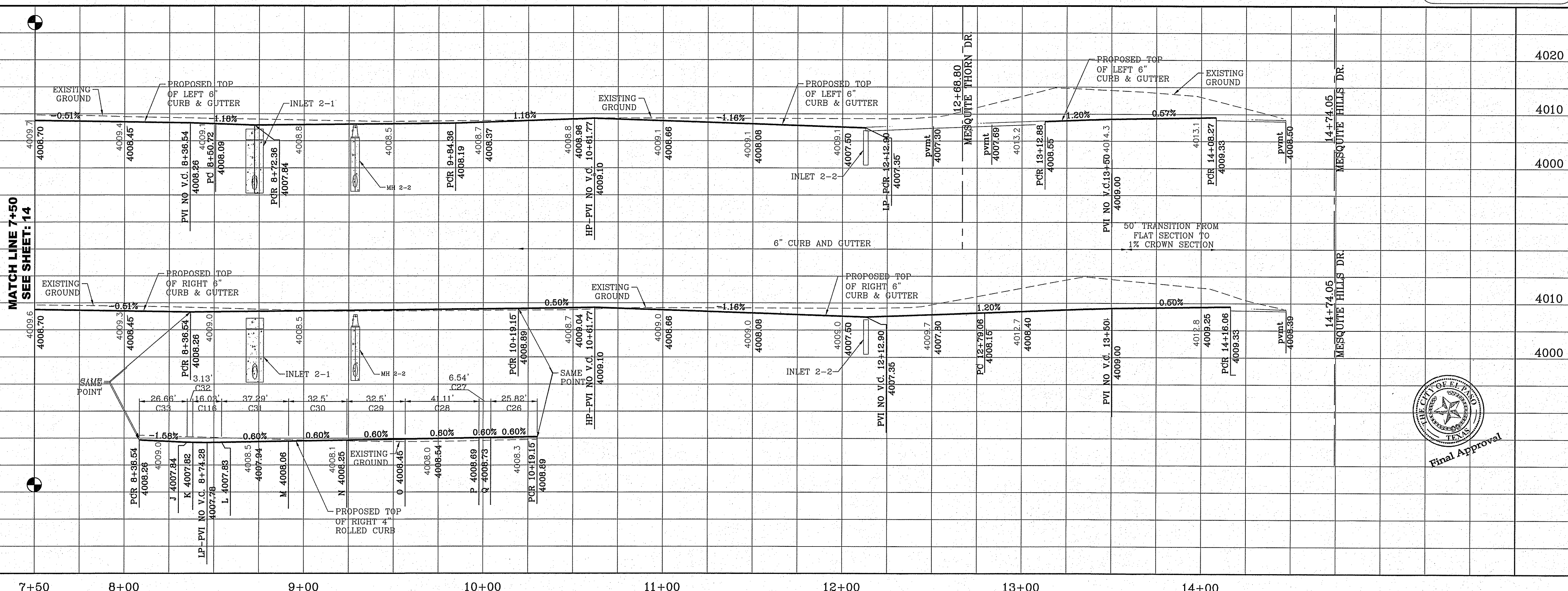
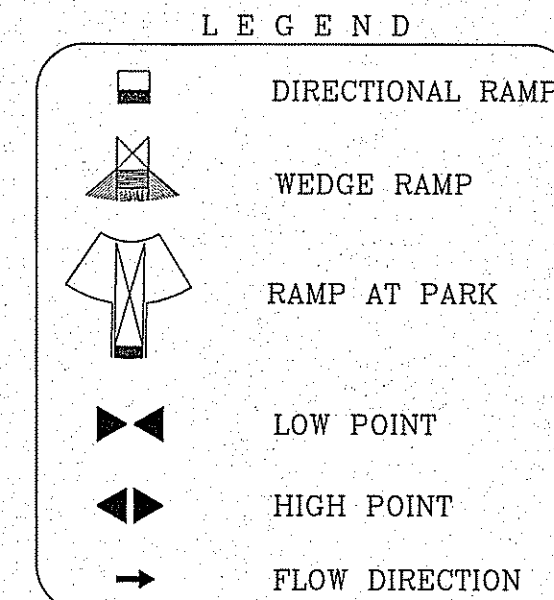
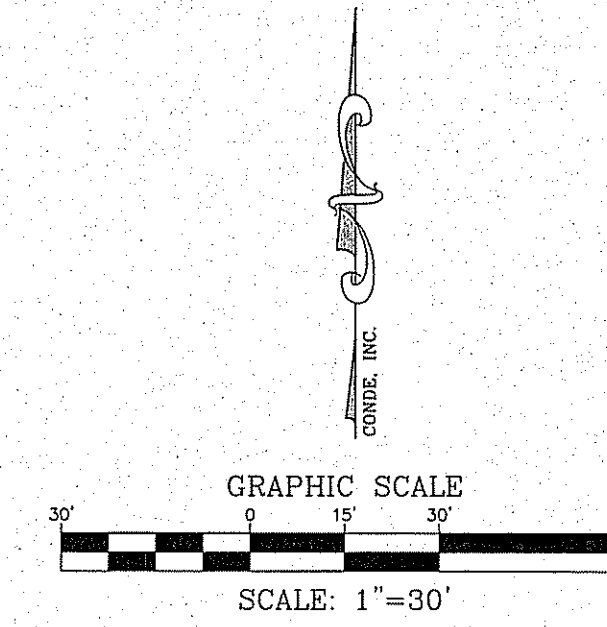


FILE LOCATION S:\Subdivisions\MESQUITE HILLS 8 - PP\MESQUITE RIVER PLOTTED ON Thursday, November 17, 2016 2:11:49 PM BY ESTEBAN JUAREZ



CURVE TABLE						
CURVE	RADIUS	LENGTH	TANGENT	CHORD	BEARING	DELTA
C1	300.00'	3.28'	1.64'	3.28'	N60°36'16"E	0°37'37"
C2	300.00'	152.86'	78.13'	151.21'	N75°30'54"E	29°11'40"
C3	300.00'	99.56'	50.24'	99.10'	N14°55'13"W	19°00'52"
C6	750.00'	194.91'	98.01'	194.36'	N7°19'58"W	14°53'24"
C18	35.00'	51.50'	31.68'	46.98'	N73°54'04"W	84°18'08"
C19	316.00'	144.30'	73.43'	143.05'	N77°01'48"E	26°09'52"
C20	35.00'	56.83'	36.90'	50.79'	N18°55'05"E	93°01'59"
C21	284.00'	90.31'	45.54'	89.93'	N74°32'40"E	18°13'09"
C22	30.00'	43.82'	26.86'	40.03'	S54°30'13"E	83°41'06"
C24	30.00'	56.10'	40.65'	48.28'	N36°32'19"E	107°08'50"
C26	50.00'	25.82'	13.21'	25.54'	S75°18'59"W	29°35'31"

CURVE TABLE						
CURVE	RADIUS	LENGTH	TANGENT	CHORD	BEARING	DELTA
C27	65.00'	6.54'	3.27'	6.54'	N63°24'13"E	5°45'58"
C28	65.00'	41.11'	21.27'	40.43'	N84°24'25"E	36°14'26"
C29	65.00'	32.50'	16.60'	32.16'	S63°08'56"E	28°38'52"
C30	65.00'	32.50'	16.60'	32.16'	S34°30'04"E	28°38'52"
C31	65.00'	37.29'	19.17'	36.78'	S34°43'31"E	32°52'14"
C32	65.00'	3.13'	1.56'	3.13'	S28°12'10"W	2°45'21"
C33	50.00'	26.66'	13.66'	26.35'	N14°18'18"E	30°33'04"
C34	734.00'	176.88'	88.87'	176.45'	N7°52'27"W	13°48'25"
C35	40.00'	62.83'	40.00'	56.57'	S44°53'16"E	90°00'00"
C36	766.00'	199.07'	100.10'	198.51'	N7°19'58"W	14°53'24"
C116	65.00'	16.03'	8.06'	15.99'	S19°45'33"W	14°07'53"



BENCHMARK	BENCHMARK LOCATED AT THE CENTERLINE INTERSECTION OF COPPER TOWN DRIVE AND MESQUITE HILLS DRIVE. ELEV = 4013.08
REVISIONS	AS PER CITY REVISIONS COMMENTS
DATE	07/09/16
BY	E.J.

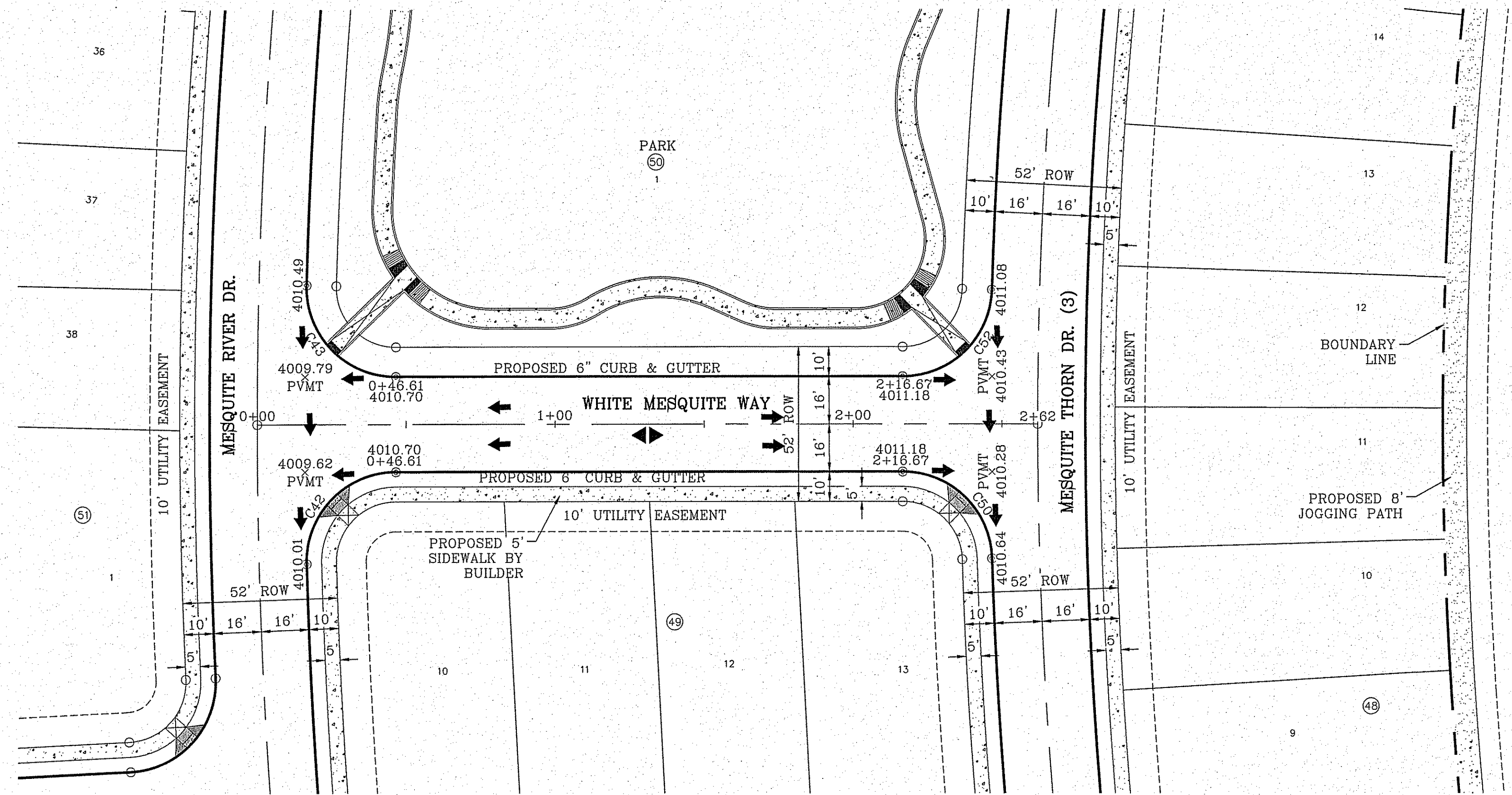
MESQUITE HILLS UNIT 8
 BEING PORTION OF TRACT 6C, SECTION 16 AND PORTION OF TRACTS 1D AND 1E, SECTION 17, BLOCK 60, TOWNSHIP 1, TEXAS AND PACIFIC RAILROAD CO. SURVEYS, CITY OF EL PASO, EL PASO COUNTY, TEXAS CONTAINING: 37.351 ACRES

SCALE
 HORIZ: 1" = 30'
 VERT: 1" = 10'
 DATE: FEB. 2016
 DESIGN BY: Y.C.
 INITIATED BY: E.J.
 CHECKED BY: Y.C.
 JOB NO.: 113-30

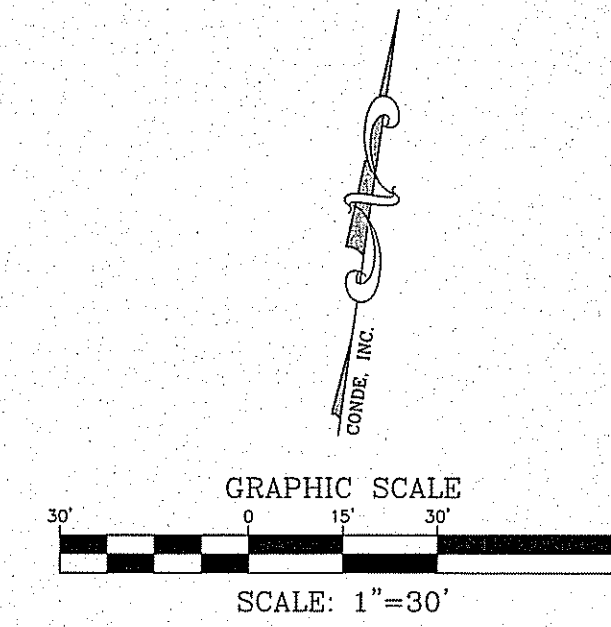
CONDE INC.
 ENGINEERING / PLANNING
 SURVEYING / GPS
 6060 SURVEY DR. STE 100
 EL PASO, TEXAS 79905
 PHONE: (915) 592-0263
 FAX: (915) 592-0266

SHEET TITLE
MESQUITE RIVER DR. (2)
 STA: 7+50 TO END

FILE LOCATION S:\Subdivisions\MESQUITE HILLS 8 - PP_WHITE MESQUITE PLOTTED ON Thursday, November 17, 2016 2:12:32 PM BY ESTEBAN JUAREZ



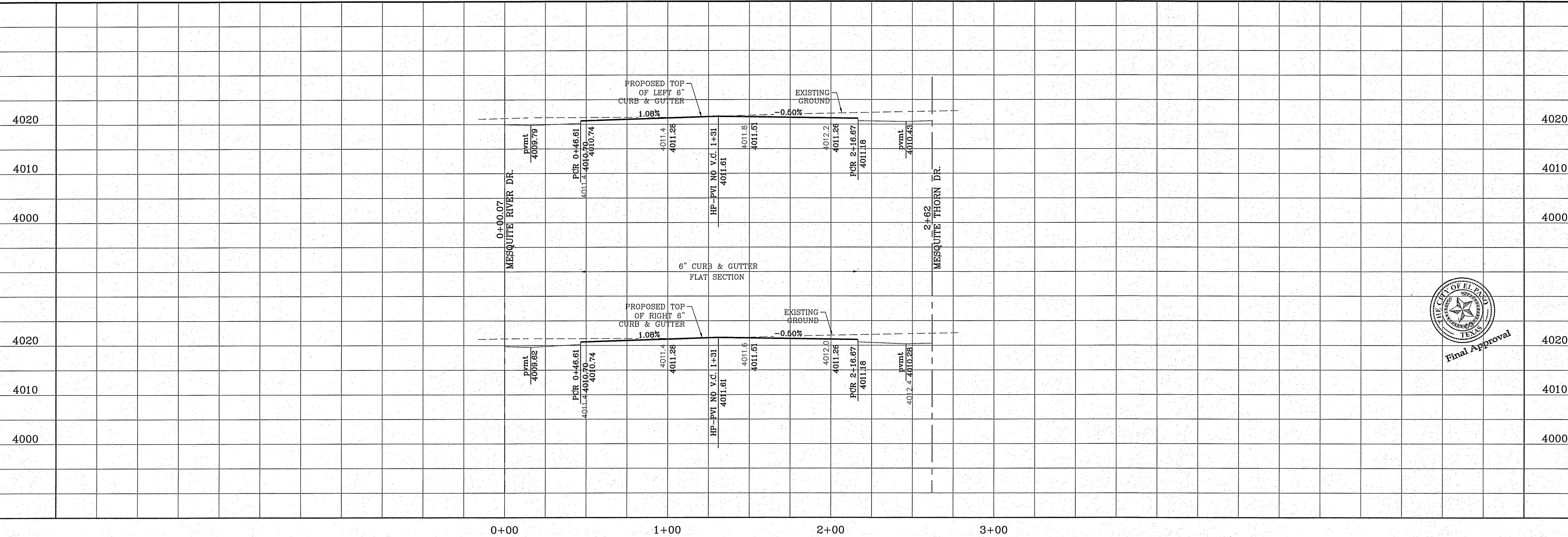
CURVE TABLE						
CURVE	RADIUS	LENGTH	TANGENT	CHORD	BEARING	DELTA
C42	30.00'	47.92'	30.80'	42.98'	S36°06'48"W	91°30'41"
C43	30.00'	47.92'	30.80'	42.98'	S52°22'31"E	91°30'41"
C50	30.00'	46.25'	29.14'	41.80'	N53°58'06"W	88°19'31"
C52	30.00'	46.25'	29.14'	41.80'	N37°42'23"E	88°19'31"



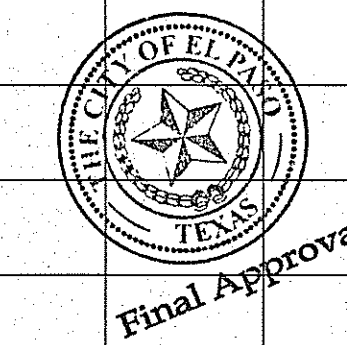
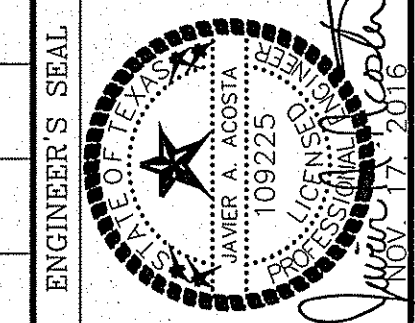
LEGEND	
	DIRECTIONAL RAMP
	WEDGE RAMP
	RAMP AT PARK
	LOW POINT
	HIGH POINT
	FLOW DIRECTION

BENCHMARK	
BENCHMARK LOCATED AT THE CENTERLINE INTERSECTION OF COPPER TOWN DRIVE AND MESQUITE HILLS DRIVE. ELEV.=4013.08	
DATE	REVISIONS

PROJECT NAME
MESQUITE HILLS UNIT 8
 BEING PORTION OF TRACT 6C, SECTION 16 AND PORTION OF TRACTS 1D AND 1E, SECTION 17, BLOCK 80, TOWNSHIP 1, TEXAS AND PACIFIC RAILROAD CO. SURVEYS, CITY OF EL PASO, EL PASO COUNTY, TEXAS CONTAINING: 37.031 ACRES



SCALE
 HORIZ: 1" = 30'
 VERT: 1" = 10'
 DATE: FEB. 2016
 DESIGN BY: Y.C.
 INITIATED BY: E.J.
 CHECKED BY: Y.C.
 JOB NO.: 113-30



CONDE INC.
 ENGINEERING / PLANNING
 SURVEYING / GPS
 8080 SURETY DR. STE 100
 EL PASO, TEXAS 79905
 PHONE: (915) 592-0283
 FAX: (915) 592-0286

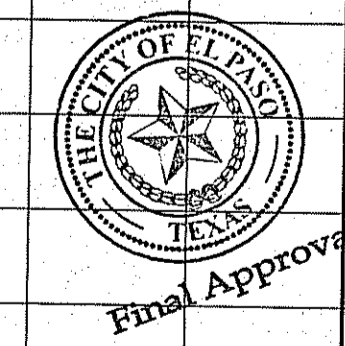
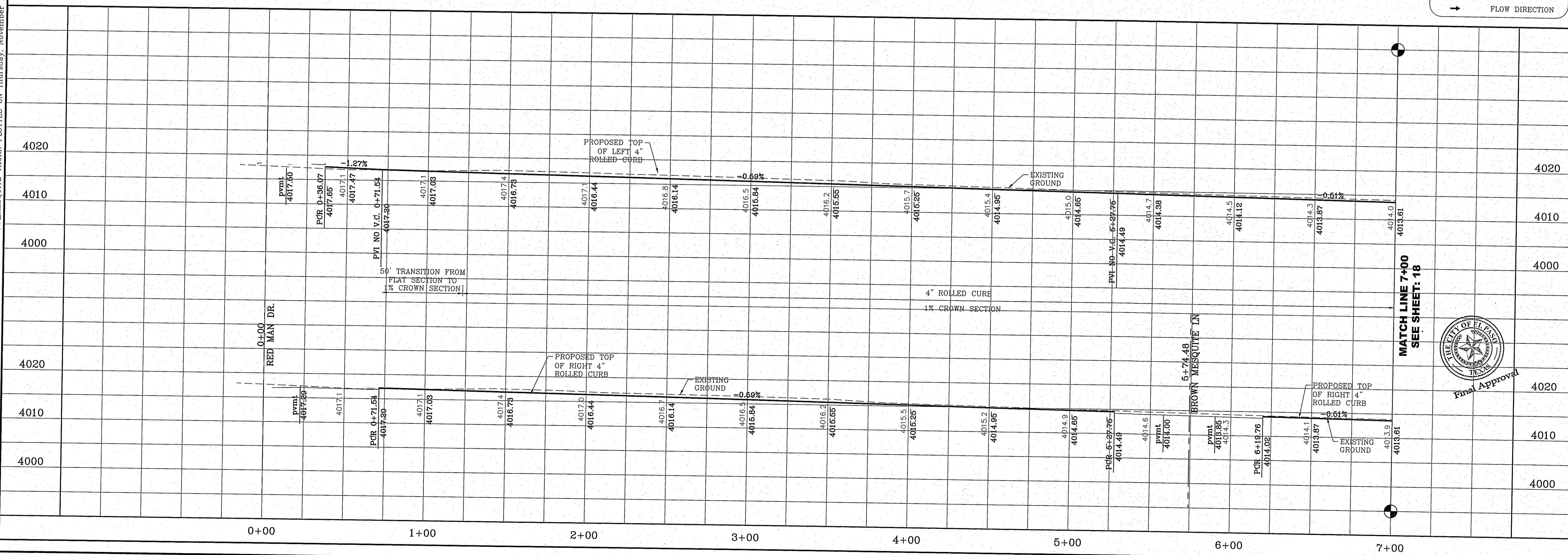
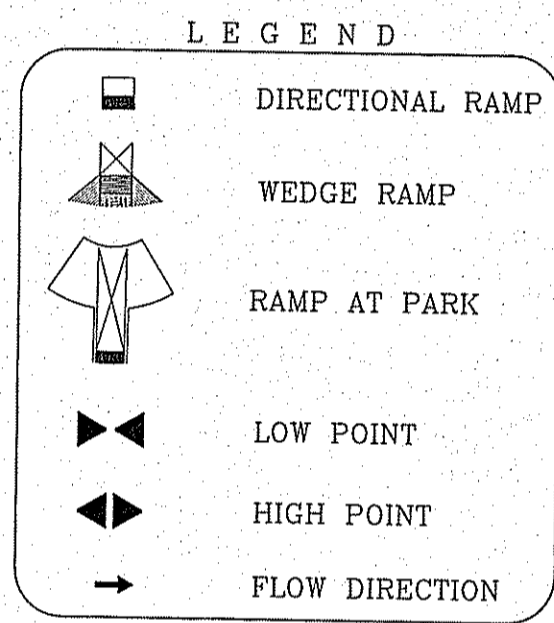
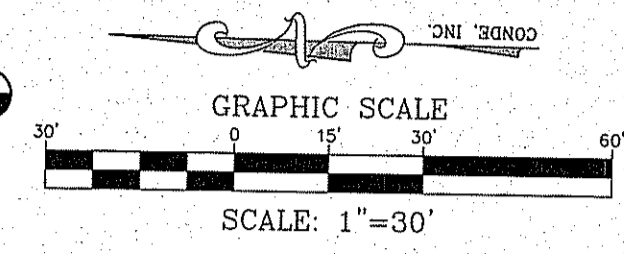
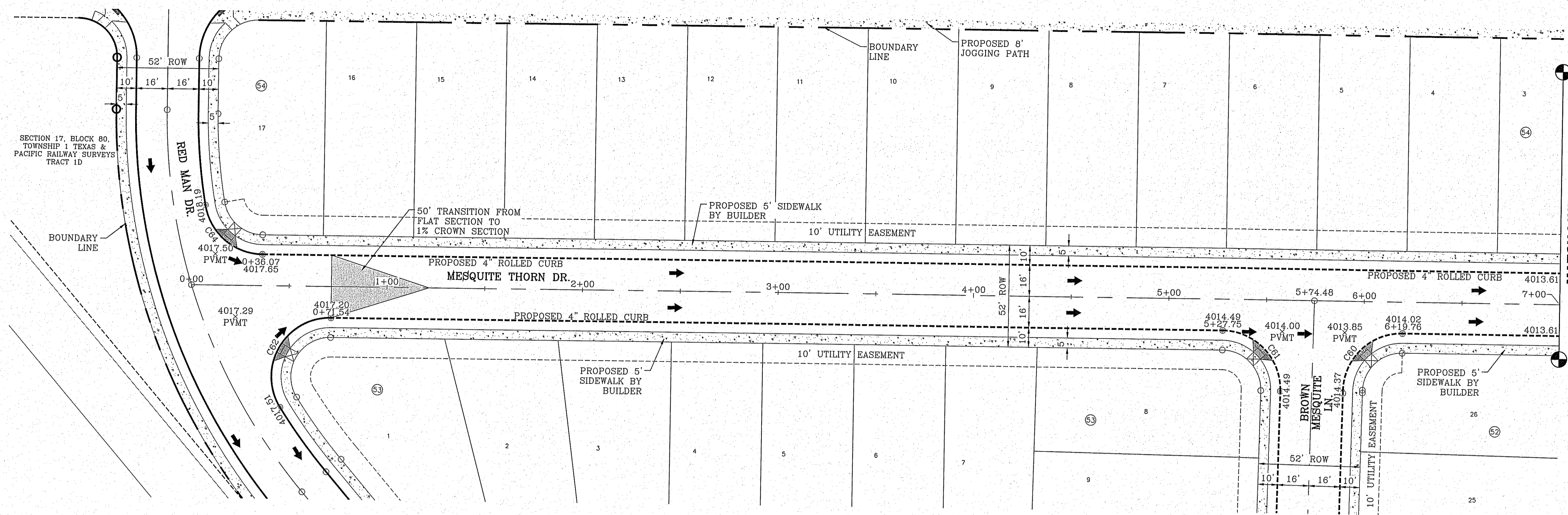


SHEET TITLE
 STREET
 PLAN-PROFILE
WHITE MESQUITE WAY
 IN ITS ENTIRETY

FILE LOCATION: S:\Subdivisions\MESQUITE HILLS 8\DWG\MESQUITE HILLS 8 - PP\MESQUITE THORN PLOTTED ON Thursday, November 17, 2016 2:13:25 PM BY ESTEBAN JUAREZ

CURVE TABLE						
CURVE	RADIUS	LENGTH	TANGENT	CHORD	BEARING	DELTA
C60	30.00'	46.65'	29.53'	42.09'	N45°32'27"W	89°05'30"
C61	30.00'	47.60'	30.48'	42.76'	N44°27'33"E	90°54'30"
C62	30.00'	64.02'	54.43'	52.55'	N62°07'57"W	122°16'30"

CURVE TABLE						
CURVE	RADIUS	LENGTH	TANGENT	CHORD	BEARING	DELTA
C64	30.00'	41.94'	25.22'	38.61'	S39°03'34"W	80°06'31"
C67	316.00'	223.24'	116.51'	218.62'	S68°46'00"W	40°28'36"



BENCHMARK	BENCHMARK LOCATED AT THE CENTERLINE INTERSECTION OF COPPER TOWN DRIVE AND MESQUITE HILLS DRIVE. ELEV.=4013.08
DATE	
REVISIONS	
BY	

MESQUITE HILLS UNIT 8
 BEING PORTION OF TRACT 6C, SECTION 16 AND PORTION OF TRACTS 1D AND 1E, SECTION 17, BLOCK 80, TOWNSHIP 1, TEXAS AND PACIFIC RAILROAD CO. SURVEYS, EL PASO, EL PASO COUNTY, TEXAS CONTAINING: .37651 ACRES

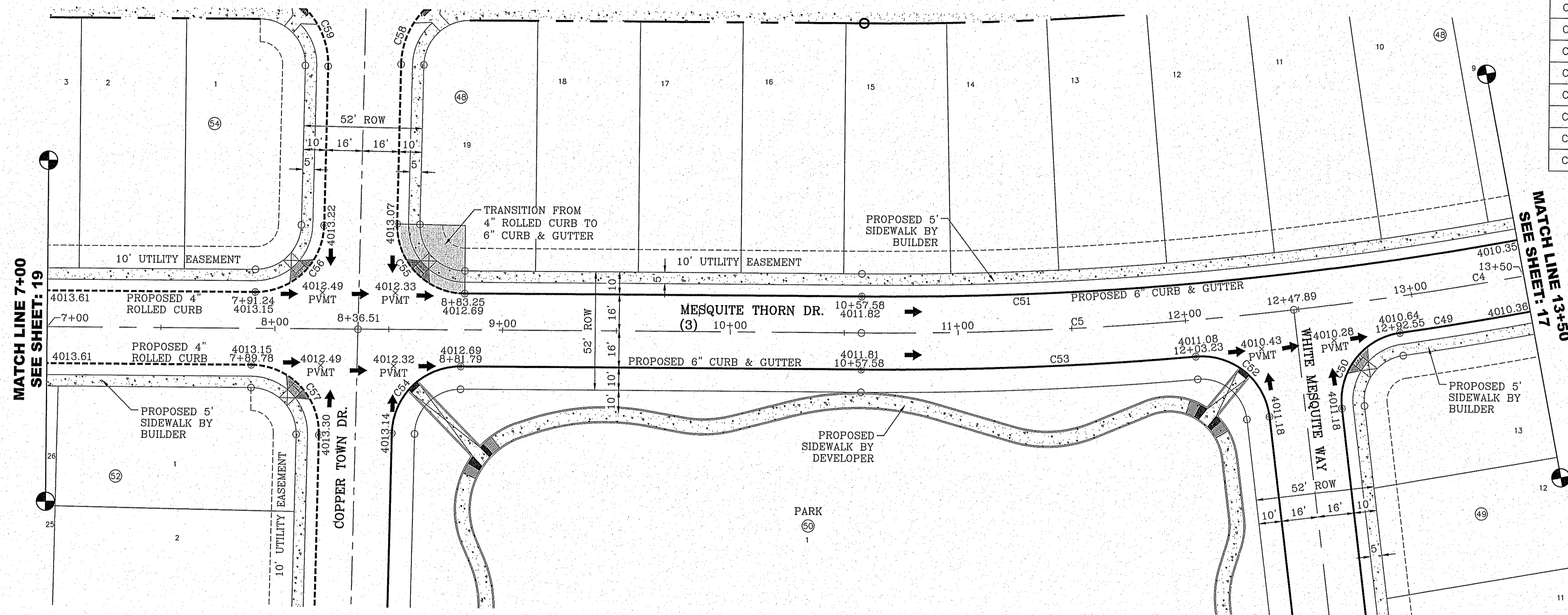
SCALE
 HORIZ: 1" = 30'
 VERT: 1" = 10'
 DATE: FEB. 2016
 DESIGN BY: Y.C.
 INITIATED BY: E.J.
 CHECKED BY: Y.C.
 JOB NO.: 113-30

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

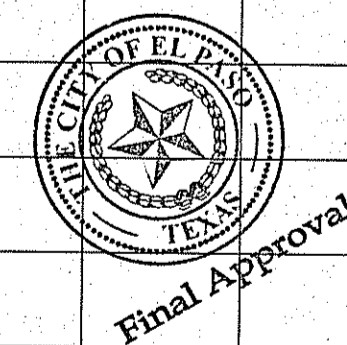
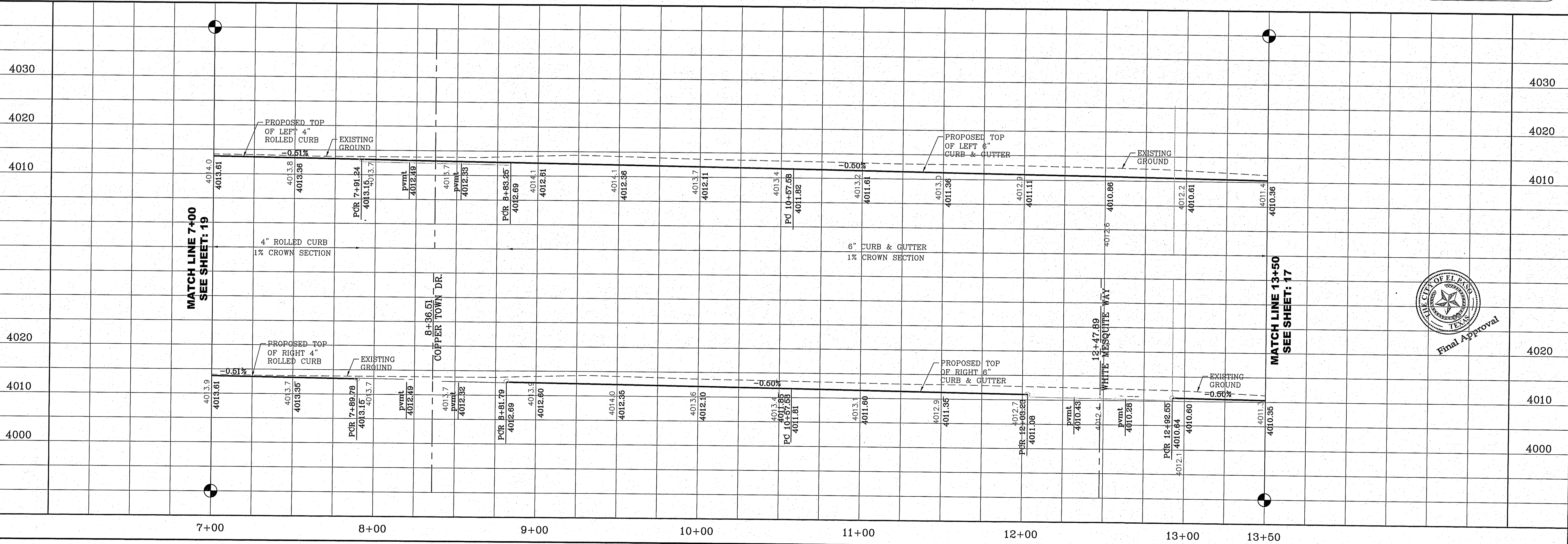
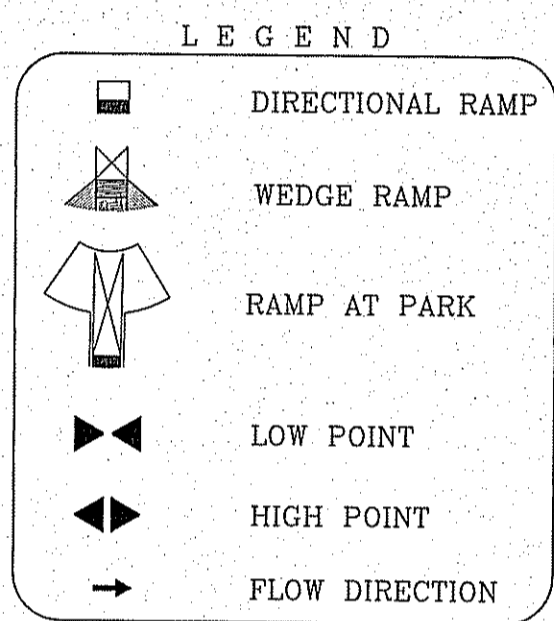
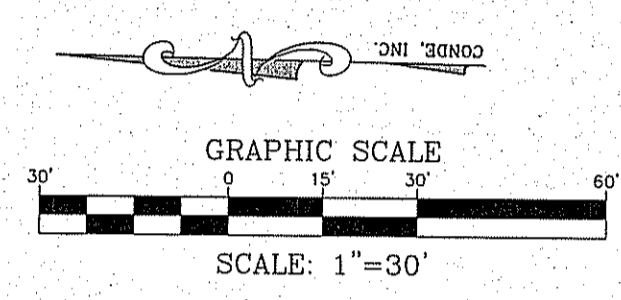
MESQUITE THORN DR.
 STA: 0+00 TO
 STA: 7+00

SHT 17 OF 30

FILE LOCATION S:_Subdivisions\MESQUITE HILLS & DWG\MESQUITE HILLS 8 - PP_MESQUITE THORN PLOTTED ON Thursday, November 17, 2016 2:13:38 PM BY ESTEBAN JUAREZ



CURVE TABLE						
CURVE	RADIUS	LENGTH	TANGENT	CHORD	BEARING	DELTA
C4	1528.00'	434.61'	218.78'	433.14'	S16°16'46"E	16°17'48"
C5	1528.00'	190.31'	95.28'	190.19'	S4°33'47"E	7°08'10"
C49	1544.00'	394.03'	198.09'	392.96'	S17°07'00"E	14°37'19"
C50	30.00'	46.25'	29.14'	41.80'	N53°58'06"W	88°19'31"
C51	1512.00'	618.37'	313.57'	614.07'	S12°42'41"E	23°25'58"
C52	30.00'	46.25'	29.14'	41.80'	N37°42'23"E	88°19'31"
C53	1544.00'	147.17'	73.64'	147.12'	S3°43'32"E	5°27'41"
C54	30.00'	46.65'	29.53'	42.09'	N45°32'27"W	89°05'30"
C55	30.00'	47.60'	30.48'	42.76'	S44°27'33"W	90°54'30"
C56	30.00'	46.65'	29.53'	42.09'	S45°32'27"E	89°05'30"
C57	30.00'	47.60'	30.48'	42.76'	N44°27'33"E	90°54'30"
C58	35.00'	54.42'	34.45'	49.10'	N45°32'27"W	89°05'30"
C59	35.00'	55.53'	35.56'	49.89'	N44°27'33"E	90°54'30"



Final Approval

DATE	REVISIONS	BY	E.I.
07/06/16	AS PER CITY REDLINES COMMENTS		

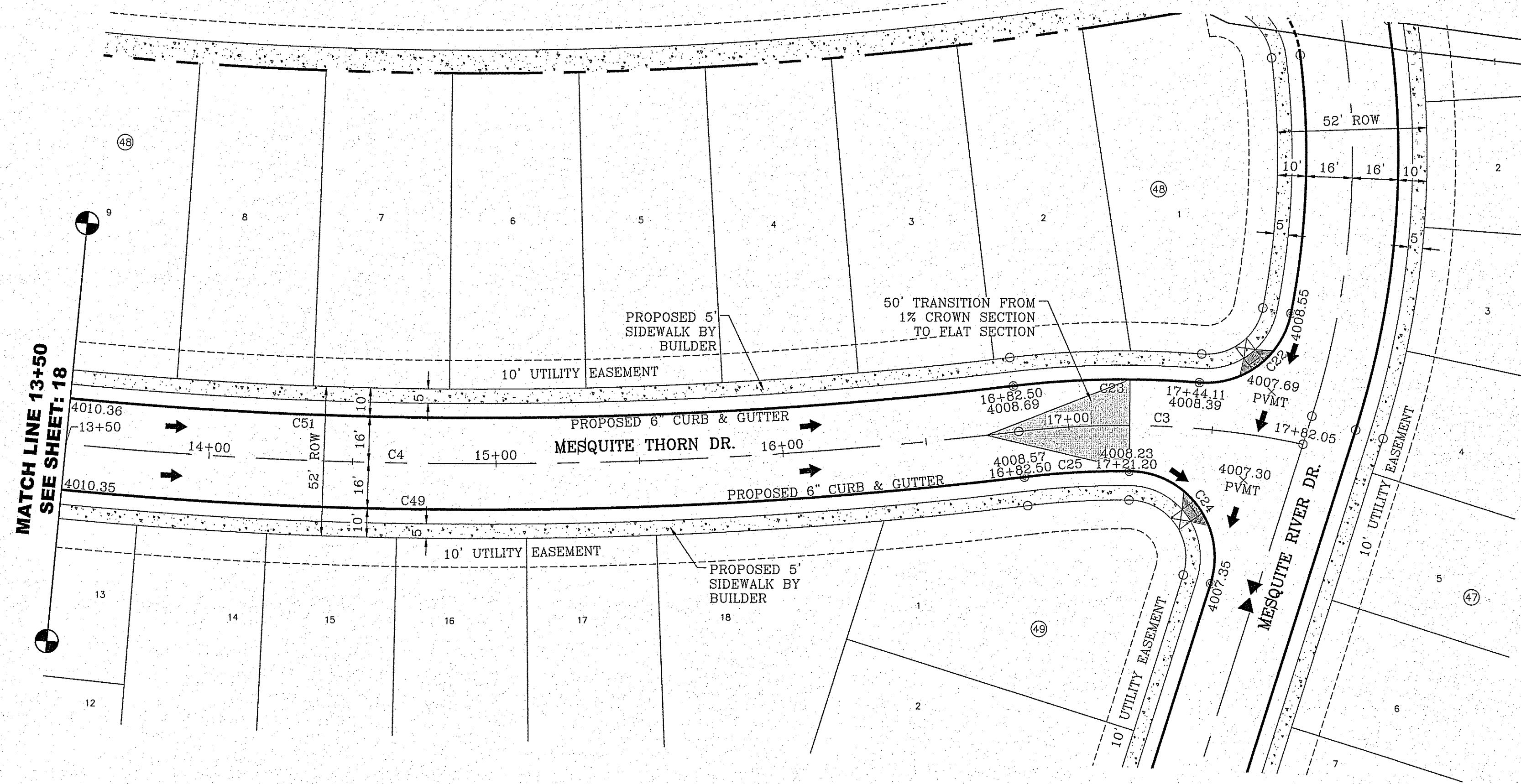
MESQUITE HILLS UNIT 8
 BEING PORTION OF TRACT 6C, SECTION 16 AND PORTION OF TRACTS 1D AND 1E, SECTION 17, BLOCK 80, TOWNSHIP 1, TEXAS AND PACIFIC RAILROAD Co. SURVEYS, CITY OF EL PASO, EL PASO COUNTY, TEXAS CONTAINING: 37.051 ACRES

SCALE
 HORIZ: 1" = 30'
 VERT: 1" = 10'
 DATE: FEB. 2016
 DESIGN BY: Y.C.
 INITIATED BY: E.J.
 CHECKED BY: Y.C.
 JOB NO.: 113-50

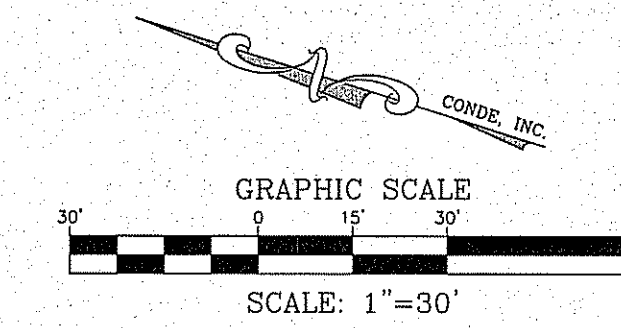
CONDE INC.
 ENGINEERING / PLANNING
 SURVEYING / GPS 100
 6080 SURETY DR. STE 100
 EL PASO, TEXAS 79905
 PHONE: (915) 592-0285
 FAX: (915) 592-0286

SHEET TITLE
 STREET
 PLAN-PROFILE
MESQUITE THORN DR. (2)
 STA: 7+00 TO
 STA: 13+50

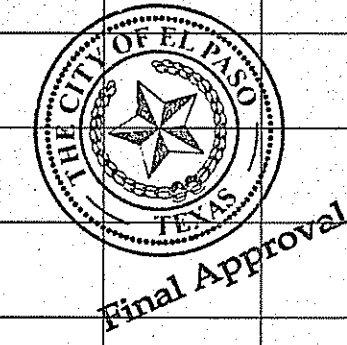
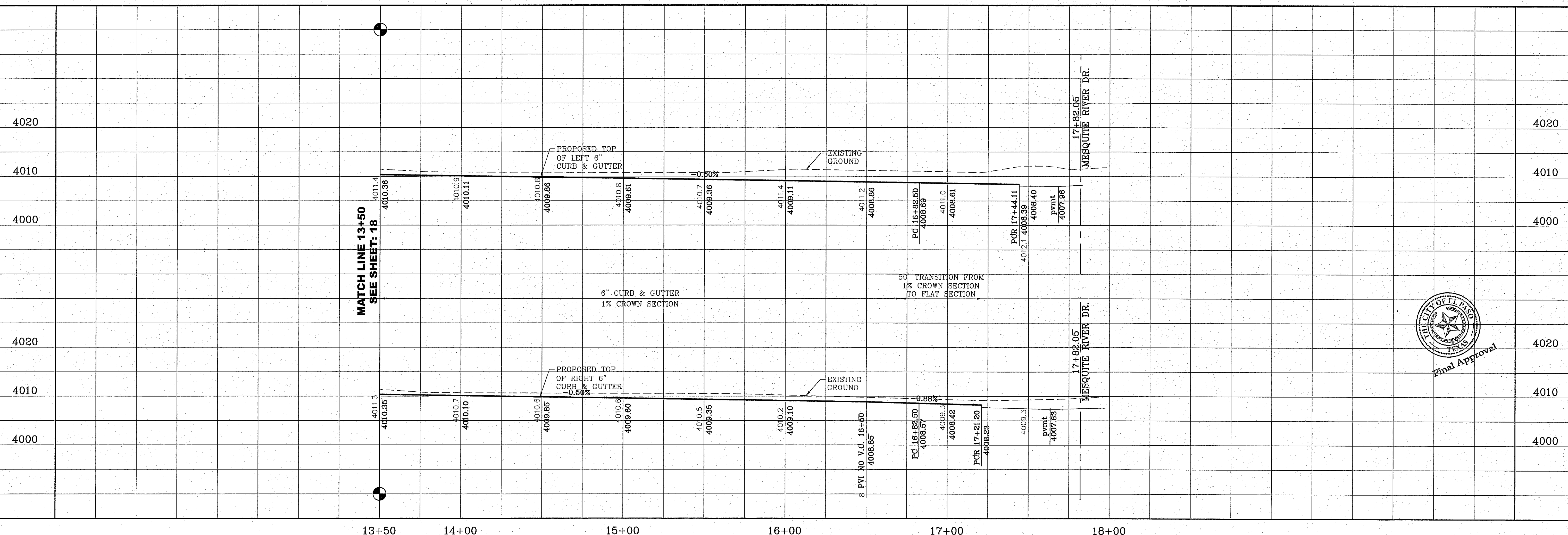
FILE LOCATION S:\Subdivisions\MESQUITE HILLS 8\DWG\MESQUITE HILLS 8 - PP_MESQUITE THORN PLOTTED ON Thursday, November 17, 2016 2:13:53 PM BY ESTEBAN JUAREZ



CURVE TABLE						
CURVE	RADIUS	LENGTH	TANGENT	CHORD	BEARING	DELTA
C3	300.00'	99.56'	50.24'	99.10'	N14°55'13"W	19°00'52"
C4	1528.00'	434.61'	218.78'	433.14'	S16°16'46"E	16°17'48"
C22	30.00'	43.82'	26.86'	40.03'	S54°30'13"E	83°41'06"
C23	316.00'	64.90'	32.56'	64.78'	N18°32'39"W	11°46'00"
C24	30.00'	56.10'	40.65'	48.28'	N36°32'19"E	107°08'50"
C25	284.00'	36.64'	18.35'	36.62'	N20°43'53"W	7°23'34"
C49	1544.00'	394.03'	198.09'	392.96'	S17°07'00"E	14°37'19"
C51	1512.00'	618.37'	313.57'	614.07'	S12°42'41"E	23°25'58"



- LEGEND
- DIRECTIONAL RAMP
 - WEDGE RAMP
 - RAMP AT PARK
 - LOW POINT
 - HIGH POINT
 - FLOW DIRECTION



BENCHMARK LOCATED AT THE CENTERLINE INTERSECTION OF COPPER TOWN DRIVE AND MESQUITE HILLS DRIVE. ELEV = 4013.08

BY	DATE	REVISIONS

MESQUITE HILLS UNIT 8
 BEING PORTION OF TRACT 6C, SECTION 16 AND PORTION OF TRACTS 1D AND 1E, SECTION 17, BLOCK 80, TOWNSHIP 1, TEXAS AND PACIFIC RAILROAD CO. SURVEYS, CITY OF EL PASO, EL PASO COUNTY, TEXAS CONTAINING: 87.031 ACRES

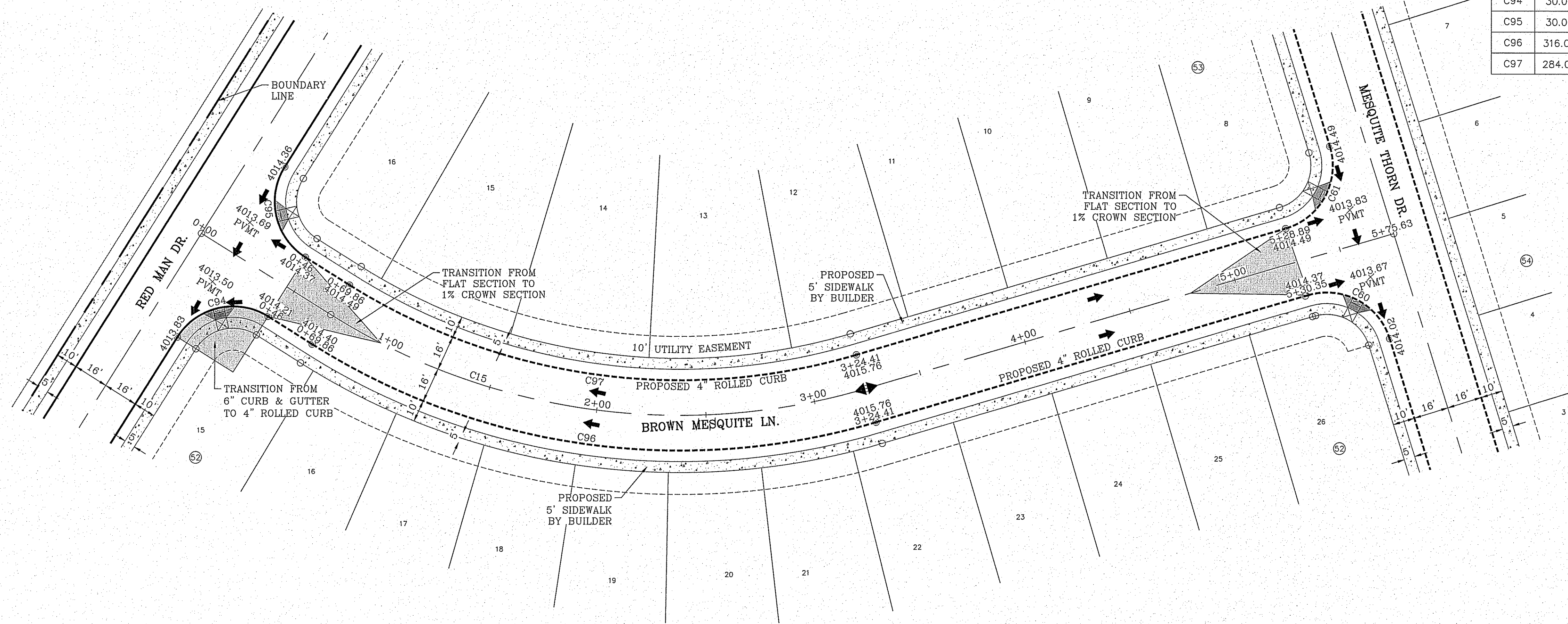
PROJECT NAME
 S C A L E
 HORIZ: 1" = 30'
 VERT: 1" = 10'
 DATE: FEB. 2016
 DESIGN BY: Y.C.
 INITIATED BY: E.J.
 CHECKED BY: Y.C.
 JOB NO.: 113-30

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

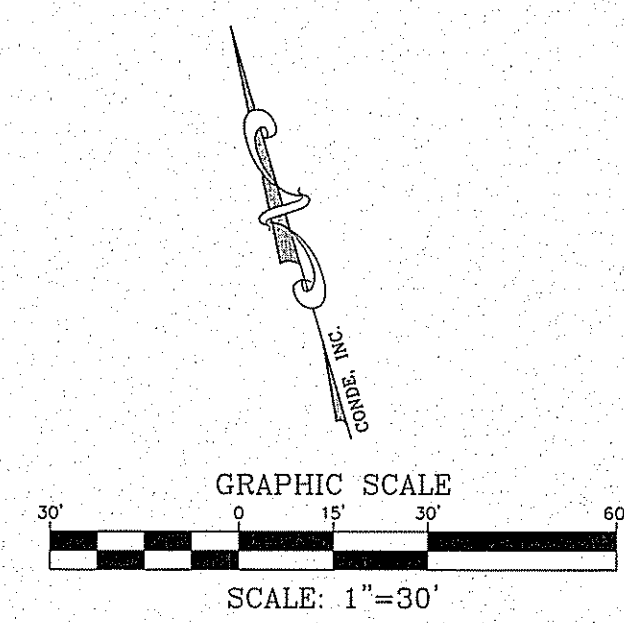
CONDE INC.
 REGISTRATION NO. F-2211

SHEET TITLE
 STREET
 PLAN - PROFILE
MESQUITE THORN DR. (3)
 STA: 13+50 TO END

FILE LOCATION S:\Subdivisions\MESQUITE HILLS 8\DWG\MESQUITE HILLS 8 - PP - BROWN MESQUITE PLOTTED ON Thursday, November 17, 2016 2:14:36 PM BY ESTEBAN JUAREZ



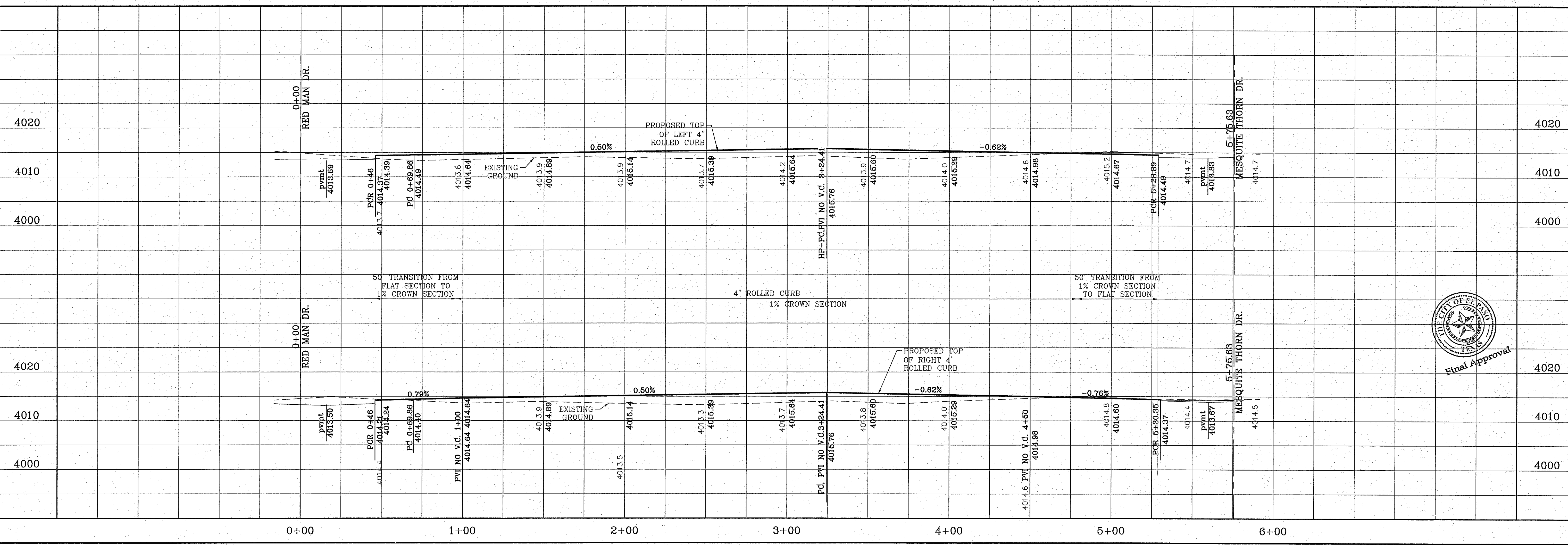
CURVE TABLE						
CURVE	RADIUS	LENGTH	TANGENT	CHORD	BEARING	DELTA
C15	300.00'	254.55'	135.50'	246.98'	S65°46'45"E	48°36'54"
C60	30.00'	46.65'	29.53'	42.09'	N45°32'27"W	89°05'30"
C61	30.00'	47.60'	30.48'	42.76'	N44°27'33"E	90°54'30"
C94	30.00'	47.12'	30.00'	42.43'	N86°28'18"W	90°00'00"
C95	30.00'	47.12'	30.00'	42.43'	S3°31'42"W	90°00'00"
C96	316.00'	268.12'	142.73'	260.15'	S65°46'45"E	48°36'54"
C97	284.00'	240.97'	128.28'	233.81'	S65°46'45"E	48°36'54"



LEGEND	
	DIRECTIONAL RAMP
	WEDGE RAMP
	RAMP AT PARK
	LOW POINT
	HIGH POINT
	FLOW DIRECTION

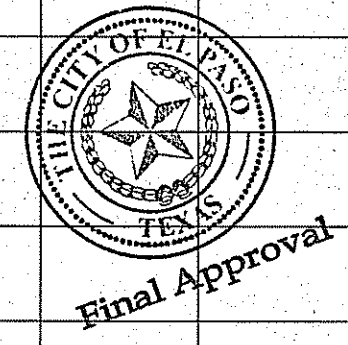
BENCHMARK	BENCHMARK LOCATED AT THE CENTERLINE INTERSECTION OF COPPER TOWN DRIVE AND MESQUITE HILLS DRIVE. ELEV. = 4013.08
DATE	
REVISIONS	
BY	

MESQUITE HILLS UNIT 8
 BEING PART OF TRACT 6C, SECTION 16 AND PORTION OF TRACTS 1D AND 1E, SECTION 17, BLOCK 80, TOWNSHIP 1, TEXAS AND PACIFIC RAILROAD CO. SURVEYS, CITY OF EL PASO, EL PASO COUNTY, TEXAS
 CONTAINING: 37.031 ACRES



SCALE	HORIZ: 1" = 30' VERT: 1" = 10'
DATE	FEB. 2016
DESIGN BY	Y.C.
INITIATED BY	E.J.
CHECKED BY	Y.C.
JOB NO.	113-30

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



SHEET TITLE	
STREET PLAN - PROFILE	
BROWN MESQUITE LN. IN ITS ENTIRETY	
SHT 20 OF 30	

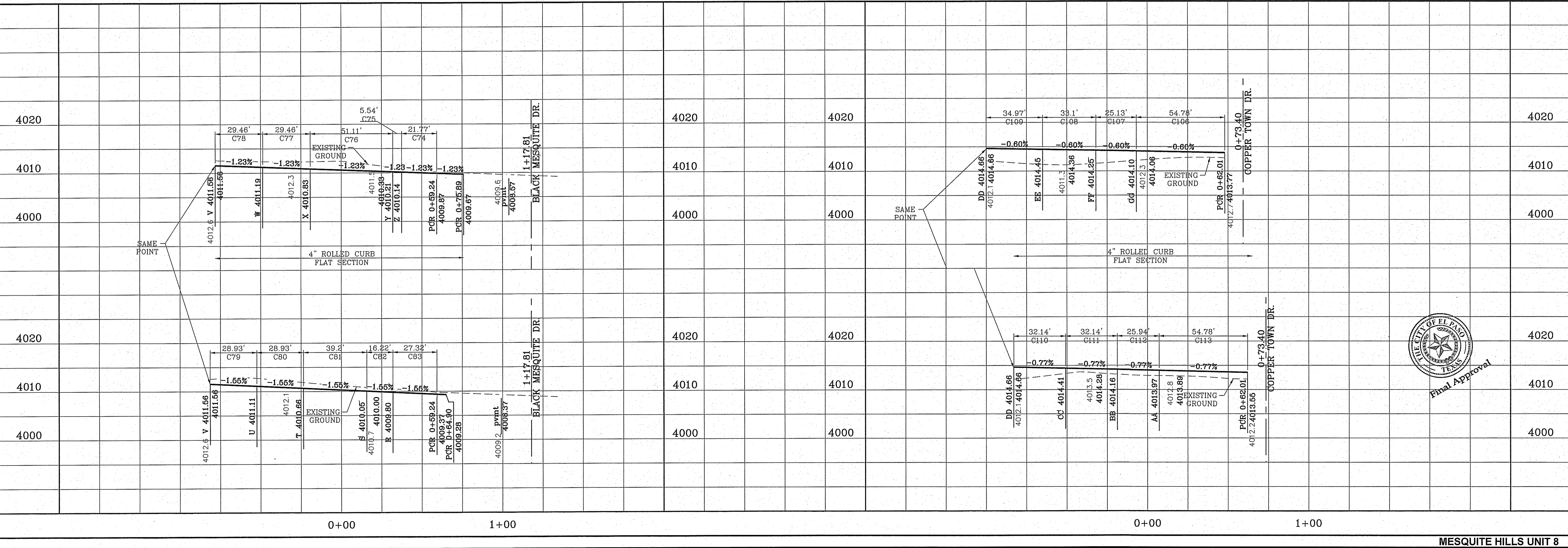
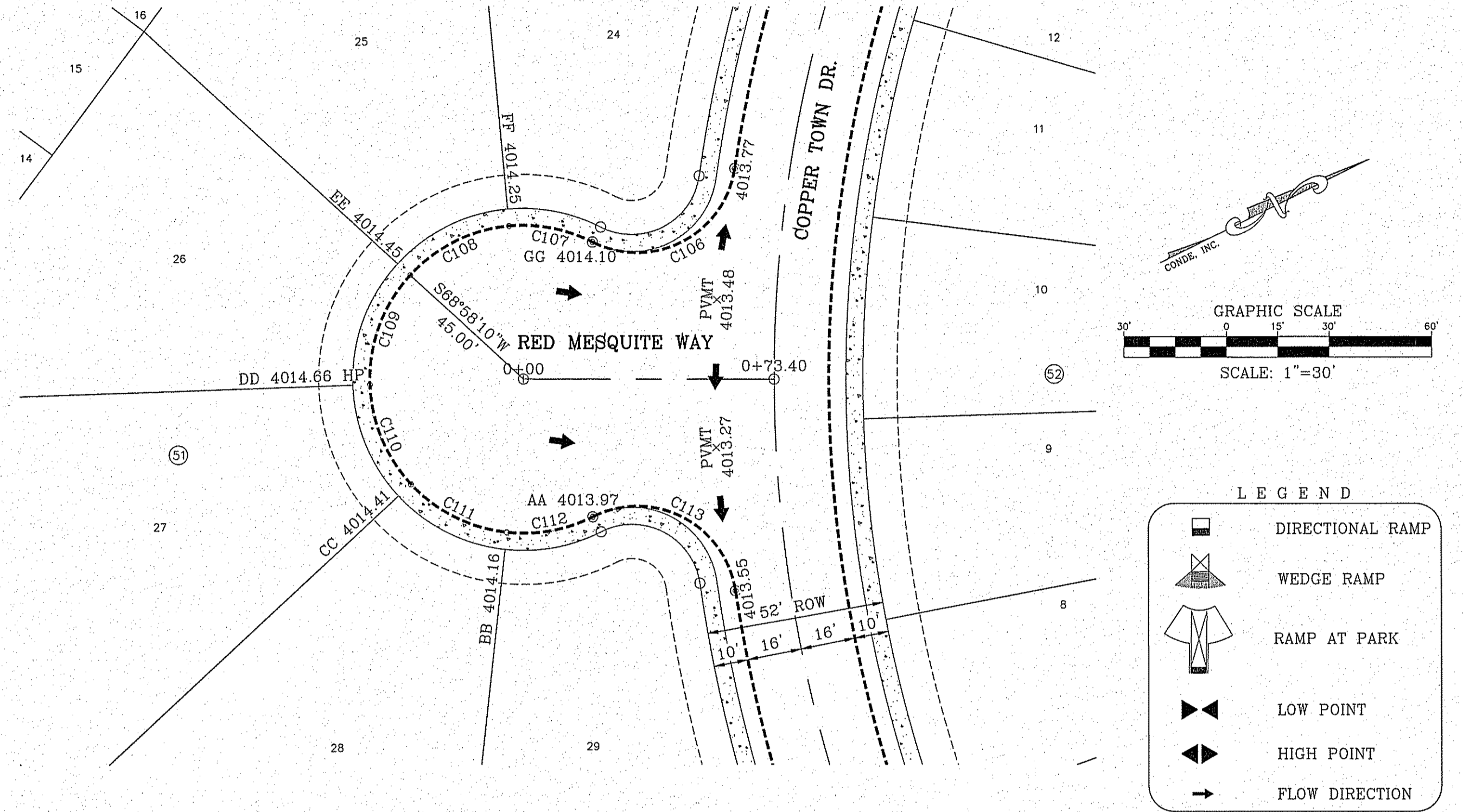
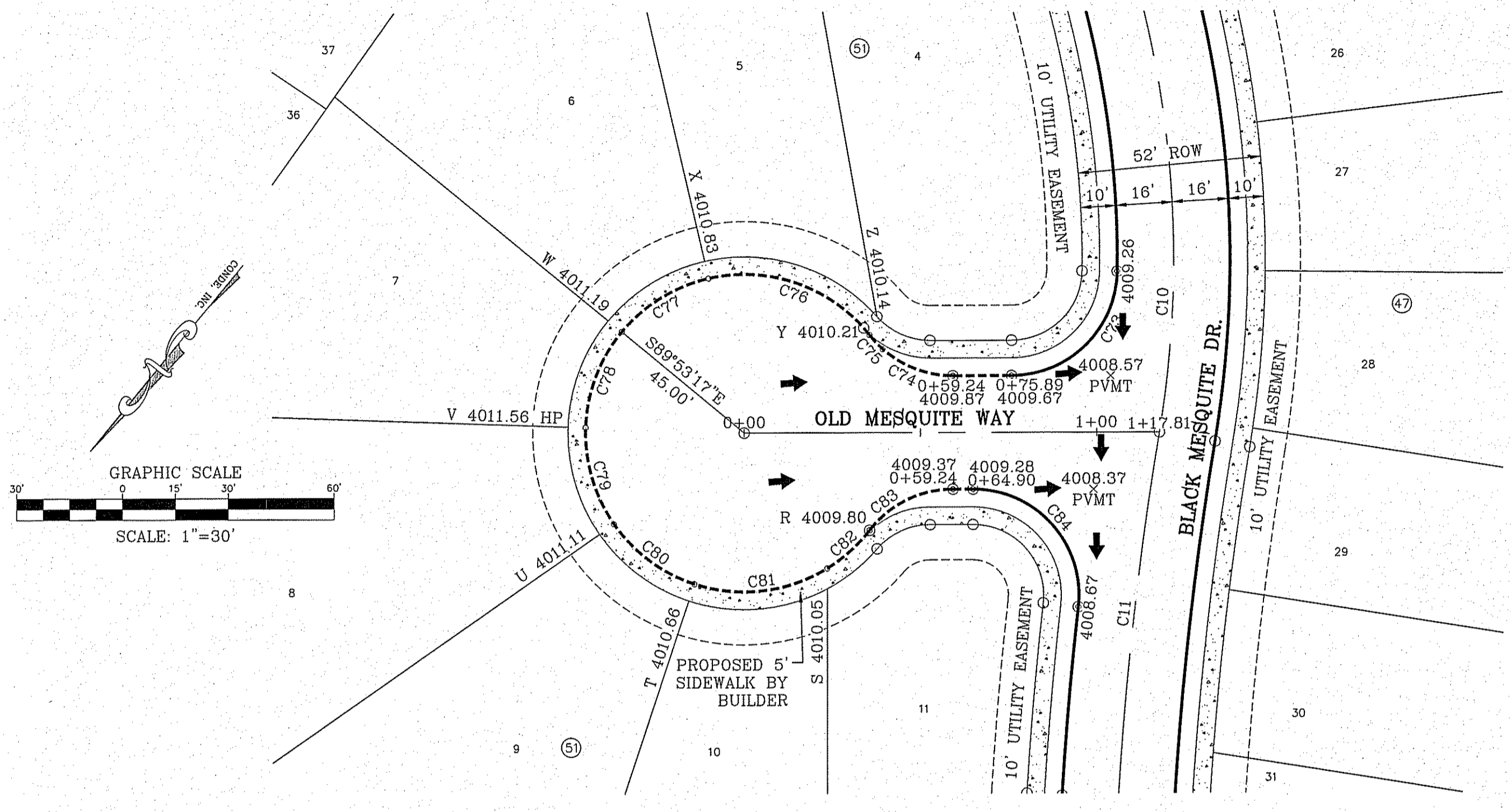
FILE LOCATION S:\Subdivisions\MESQUITE HILLS 8\DWG\MESQUITE HILLS 8 - PP_MESQUITE OLD_RED_PLOTTED ON Thursday, November 17, 2016 2:15:11 PM BY ESTEBAN JUAREZ

CURVE TABLE						
CURVE	RADIUS	LENGTH	TANGENT	CHORD	BEARING	DELTA
C10	300.00'	372.19'	214.32'	348.77'	S65°30'58"E	71°04'58"
C11	1000.00'	104.38'	52.24'	104.33'	N32°57'54"W	5°58'50"
C73	30.00'	46.72'	29.60'	42.14'	S5°55'37"W	89°13'19"
C74	30.00'	21.77'	11.39'	21.30'	S71°19'44"W	41°34'55"
C75	30.00'	5.54'	2.78'	5.54'	N82°35'11"W	10°35'13"
C76	45.00'	51.11'	28.71'	48.41'	N70°09'59"E	65°04'53"
C77	45.00'	29.46'	15.28'	28.94'	N18°52'08"E	37°30'49"

CURVE TABLE						
CURVE	RADIUS	LENGTH	TANGENT	CHORD	BEARING	DELTA
C78	45.00'	29.46'	15.28'	28.94'	N18°38'41"W	37°30'49"
C79	45.00'	28.93'	14.98'	28.43'	N55°49'05"W	36°49'59"
C80	45.00'	28.93'	14.98'	28.43'	S87°20'56"W	36°49'59"
C81	45.00'	39.20'	20.94'	37.98'	S43°58'27"W	49°54'58"
C82	45.00'	16.22'	8.20'	16.13'	S8°41'33"W	20°38'50"
C83	30.00'	27.32'	14.69'	26.38'	N24°27'12"E	52°10'09"
C84	30.00'	50.54'	33.63'	44.77'	S81°12'02"E	96°31'23"

CURVE TABLE						
CURVE	RADIUS	LENGTH	TANGENT	CHORD	BEARING	DELTA
C106	29.00'	54.78'	40.09'	46.99'	N1°00'39"W	108°14'03"
C107	45.00'	25.13'	12.90'	24.80'	S37°06'38"W	31°59'29"
C108	45.00'	33.10'	17.34'	32.36'	S0°02'31"W	42°08'43"
C109	45.00'	34.97'	18.42'	34.10'	S43°17'39"E	44°31'37"

CURVE TABLE						
CURVE	RADIUS	LENGTH	TANGENT	CHORD	BEARING	DELTA
C110	45.00'	54.78'	40.09'	46.99'	S86°01'14"E	40°55'32"
C111	45.00'	32.14'	16.79'	31.46'	N53°03'14"E	40°55'32"
C112	45.00'	25.94'	13.34'	25.58'	N16°04'35"E	33°01'46"
C113	29.00'	54.78'	40.09'	46.99'	S53°40'44"W	108°14'03"



MESQUITE HILLS UNIT 8

BEING PORTION OF TRACT 65, SECTION 16 AND PORTION OF TRACTS 7 AND 8, SECTION 16, BLOCK 66, TOWNSHIP 1, TEXAS AND PACIFIC RAILROAD CO. SURVEYS, CITY OF EL PASO, EL PASO COUNTY, TEXAS, CONTAINING: 37.031 ACRES

CONDE INC.
ENGINEERING / PLANNING / SURVEYING / GPS
6080 SURETY DR. STE. 100
EL PASO, TEXAS 79905
PHONE: (915) 582-0283
FAX: (915) 582-0286

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

DATE: FEB. 2016
DESIGN BY: Y.C.
INITIATED BY: E.J.
CHECKED BY: Y.C.
JOB NO.: 113-30

PROJECT NAME: MESQUITE HILLS UNIT 8

BENCHMARK LOCATED AT THE CENTERLINE INTERSECTION OF COPPER TOWN DRIVE AND MESQUITE HILLS DRIVE.
ELEV.=4013.08

REVISIONS

NO.	DATE	DESCRIPTION

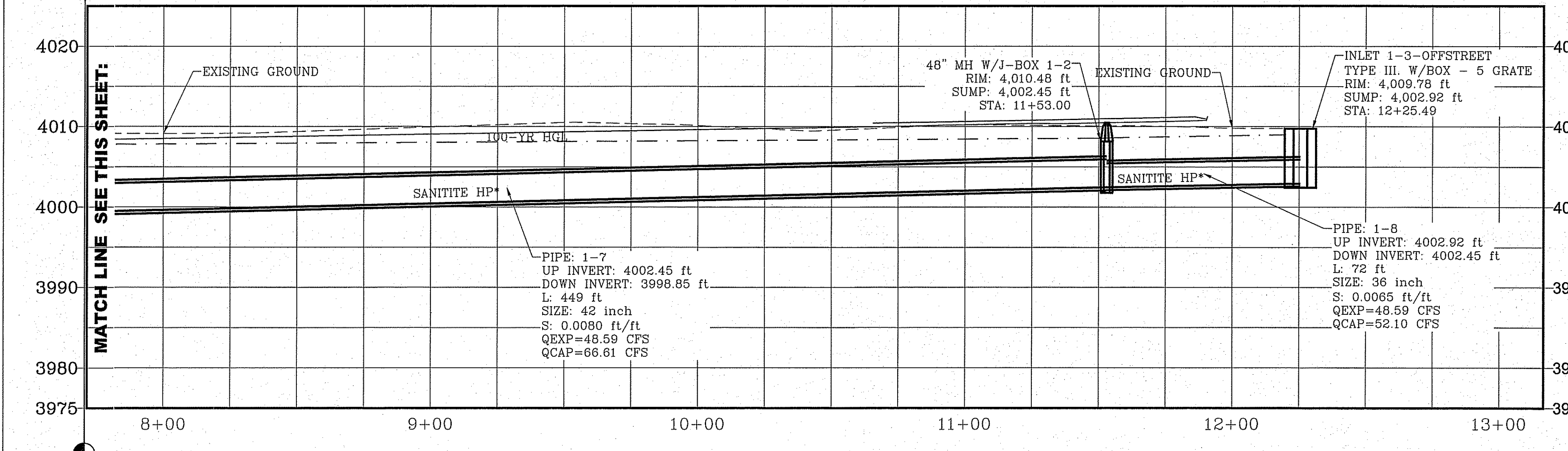
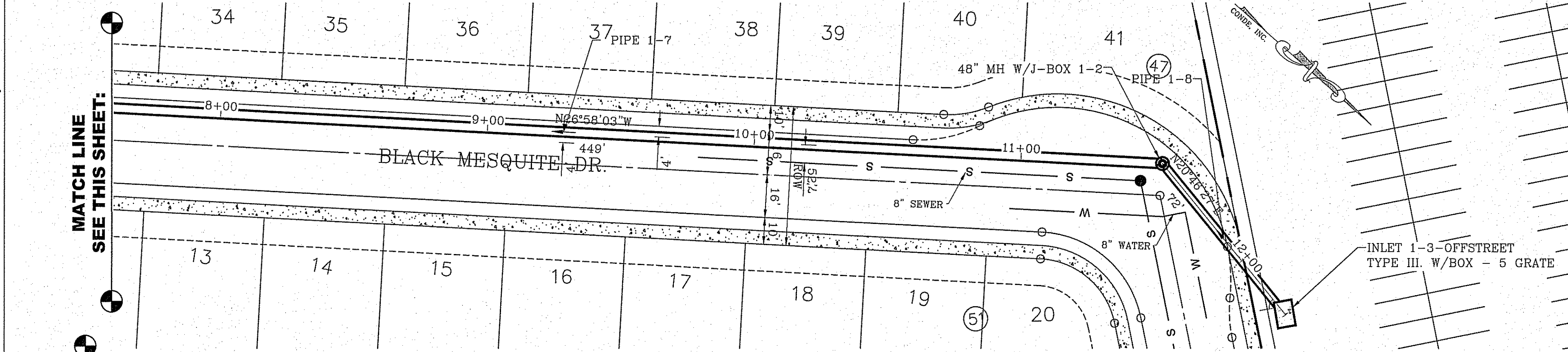
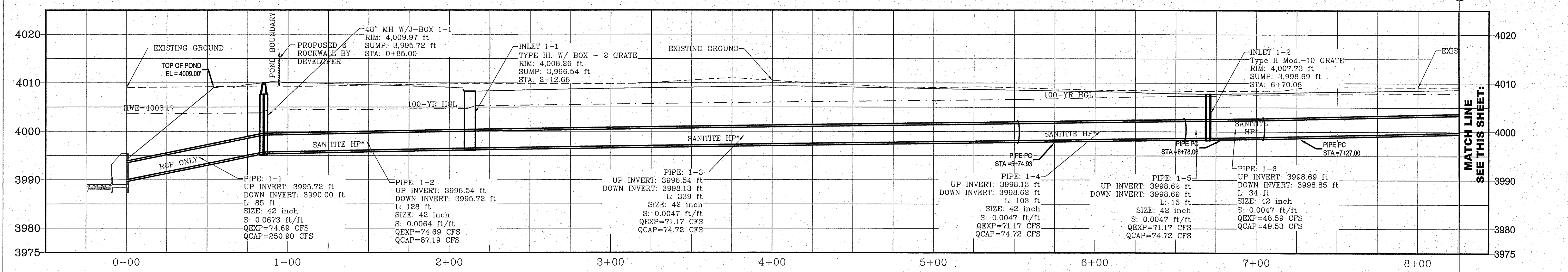
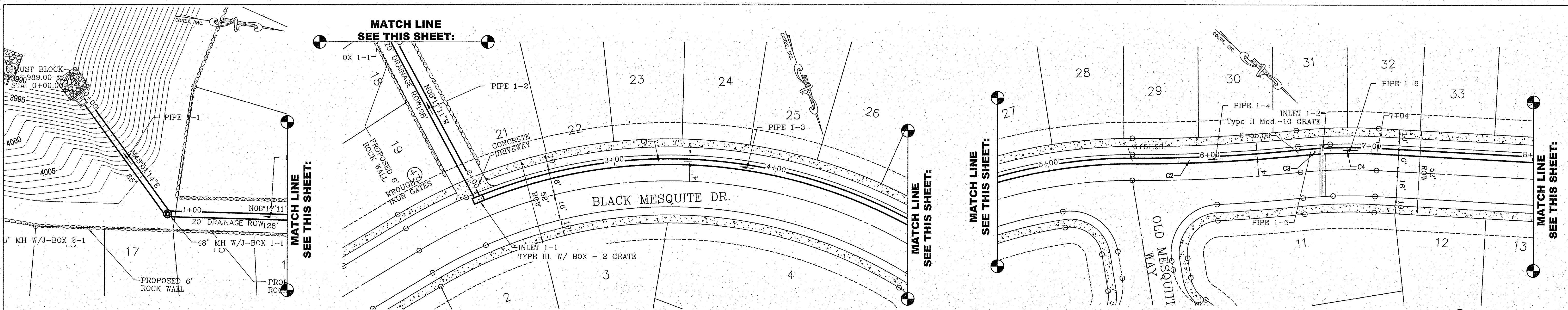
BY:

DATE:

SHEET TITLE: STREET PLAN-PROFILE
OLD MESQUITE WAY
RED MESQUITE WAY

SHT 21 OF 30

FILE LOCATION S:_Subdivisions\MESQUITE HILLS 8\DWG\MESQUITE HILLS 8 - STRUCTURE1 PLOTTED ON Thursday, November 17, 2016 2:16:18 PM BY ESTEBAN JUAREZ



PIPES ARE EITHER CLASS III R.C.P OR SANITITE HP TRIPLE WALL UNLESS OTHERWISE NOTED

CONSTRUCTION NOTES:

1. ALL CONCRETE FOR STRUCTURES SHALL BE 3000 PSI UNLESS OTHERWISE NOTED.
2. MINIMUM COVER FOR REINFORCING STEEL SHALL BE 2" UNLESS OTHERWISE NOTED.
3. 95% COMPACTION REQUIRED FOR STRUCTURES AS PER ASTM D1557.
4. REINFORCING SHALL CONFORM TO THE REQUIREMENTS OF ASTM A615 GRADE 60.
5. SANITITE HP TRIPLE WALL TO BE USED AS AN APPROVED ALTERNATE FOR ALL PIPE EXCEPT FOR THE PIPE ENTERING THE POND.

SANITITE HP NOTE

PIPE FITTINGS SHALL BE TRIPLE WALL, SMOOTH INTERIOR AND EXTERIOR, WITH ANNULAR INNER CORRUGATIONS IN CONFORMANCE TO ASTM F2764 FOR PIPE DIAMETERS 30" TO 60". PIPE FITTINGS FOR DIAMETERS UP TO AND INCLUDING 60" SHALL HAVE A MINIMUM PIPE STIFFNESS OF 40 PSI WHEN TESTED IN ACCORDANCE WITH ASTM D2412. PIPE FITTINGS FOR DIAMETERS UP TO AND INCLUDING 60" SHALL BE WATER TIGHT ACCORDING TO THE REQUIREMENTS OF ASTM D3212.

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

PIPE	SECTION SIZE (in)	LENGTH (ft)	SLOPE (ft/ft)	DISCHARGE (cfs)	CAPACITY (cfs)	AVERAGE VELOCITY (fps)	DOWN STREAM GROUND	DOWN STREAM HGL	DOWN STREAM INVERT	UPSTREAM GROUND	UPSTREAM HGL	UPSTREAM INVERT
1-1	42	85	.0873	74.69	250.90	7.74	3993.88	4003.62	3990	4009.97	4003.76	3995.72
1-2	42	128	.0064	74.69	87.19	7.74	4009.97	4004.38	3995.72	4008.26	4004.68	3996.54
1-3	42	339	.0047	71.17	74.72	7.42	4008.26	4005.27	3996.54	4008.52	4006.60	3998.13
1-4	42	103	.0047	71.17	74.72	7.42	4008.52	4006.60	3997.91	4007.83	4007.31	3999.48
1-5	42	15	.0047	71.17	74.72	5.05	4007.83	4007.31	3998.62	4007.73	4007.31	3998.69
1-6	42	34	.0047	48.59	49.53	6.87	4007.73	4007.31	3998.69	4007.91	4007.31	3998.85
1-7	42	449	.0080	48.59	66.61	6.87	4007.91	4007.64	3998.85	4010.48	4008.56	4002.45
1-8	36	72	.0065	48.59	52.10	6.87	4010.48	4008.62	4002.45	4009.78	4008.99	4002.92

INLET DATA

INLET No.	INLET TYPE	No. GRATES	Q _{d50} yr. cfs	Q _{d100} yr. cfs	Q _c cfs
1-1	III	2	3.15	3.52	20.29
1-2	II Mod.	10	20.12	22.79	78.00
1-3	III	5	42.88	48.59	49.52
2-1	III	2	14.89	16.84	20.29
2-2	II-MOD.	10	20.59	23.35	78.00

CLOGGING FACTOR = 2/3

CURVE TABLE

CURVE #	RADIUS	LENGTH	TANGENT	CHORD	BEARING	DELTA
C1	312.00'	339.31'	188.62	322.83'	N61°07'48"W	62°18'37"
C2	988.00'	103.13'	51.61	103.08'	N32°57'54"W	5°58'50"
C3	312.00'	19.78'	9.89	19.77'	N34°08'22"W	3°37'54"
C4	312.00'	29.17'	14.59	29.16'	N29°38'44"W	5°21'23"

STREET CARRYING CAPACITY-1% CROWN-60 YR STORM

STREET NAME	STATION	Q ₆₀ CFS	Velocity	Depth	Q ₆₀ CFS @ 5"
BLACK MESQUITE DR.	15+15	20.12	2.53	0.43	34.83
MESQUITE THORN DR.	15+15	20.59	2.50	0.44	34.83

BENCHMARK LOCATED AT THE CENTERLINE INTERSECTION OF COPPER TOWN DRIVE AND MESQUITE HILLS DRIVE. ELEV = 4013.08

DATE: 07/06/16
BY: E.J.

MESQUITE HILLS UNIT 8

BEING PORTION OF TRACT 6C, SECTION 16 AND PORTION OF TRACTS 1D AND 1E, SECTION 17, BLOCK 80, TOWNSHIP 1, TEXAS AND PACIFIC RAILROAD CO. SURVEYS, CITY OF EL PASO, EL PASO COUNTY, TEXAS CONTAINING: 87.031 ACRES

PROJECT NAME: MESQUITE HILLS UNIT 8
SCALE: HORIZ. 1" = 30', VERT. 1" = 10'
DATE: FEB. 2016
DESIGN BY: Y.C.
INITIATED BY: E.J.
CHECKED BY: Y.C.
JOB NO.: 113-50

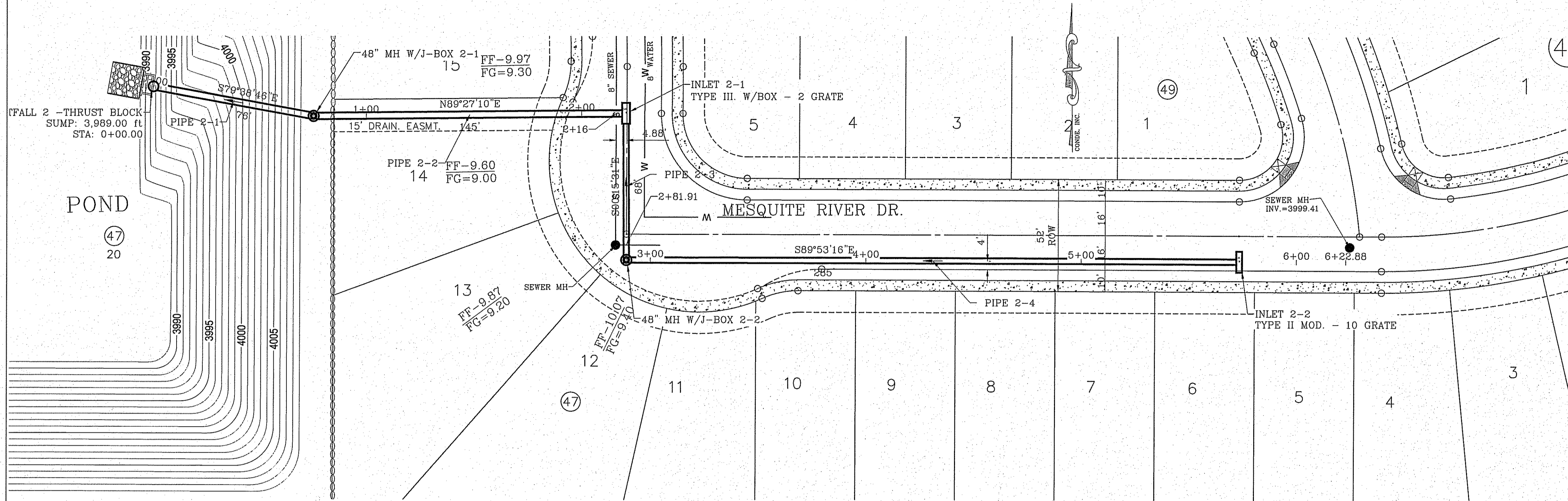
CONDE INC. ENGINEERING / PLANNING SURVEYING / GFS
6080 SURETY DR. STE 100
EL PASO, TEXAS 79905
PHONE: (915) 592-0283
FAX: (915) 592-0286



SHEET TITLE: **BLACK MESQUITE STRUCTURE NO. 1**

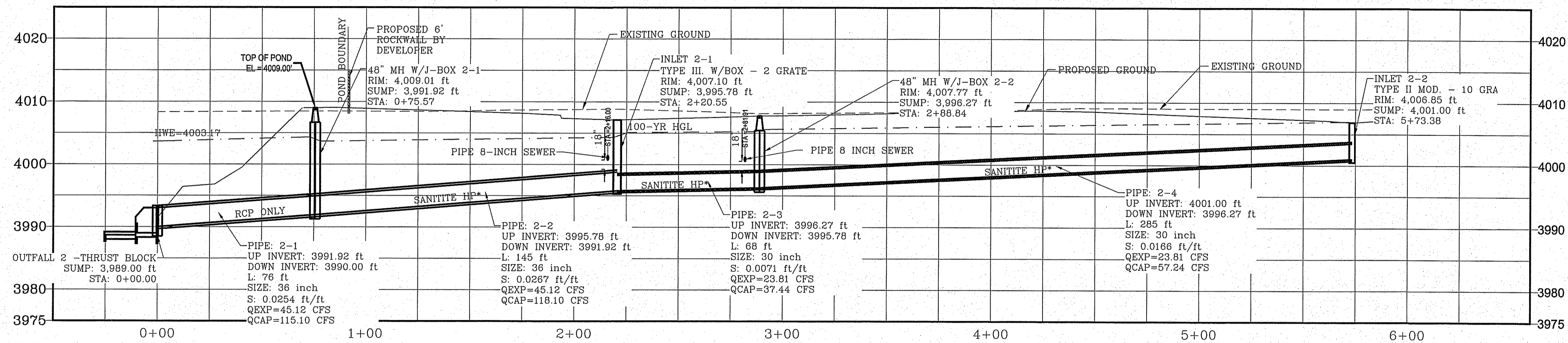
SHT 22 OF 30

FILE LOCATION S:\Subdivisions\MESQUITE HILLS 8.DWG MESQUITE HILLS 8 - STRUCTURE1 PLOTTED ON Thursday, November 17, 2016 2:16:37 PM BY ESTEBAN JUAREZ



ALL R.C.P. ARE CLASS III OR SANITITE HP TRIPLE WALL UNLESS OTHERWISE NOTED

- CONSTRUCTION NOTES:**
1. ALL CONCRETE FOR STRUCTURES SHALL BE 3000 PSI. UNLESS OTHERWISE NOTED.
 2. MINIMUM COVER FOR REINFORCING STEEL SHALL BE 2" UNLESS OTHERWISE NOTED.
 3. 95% COMPACTION REQUIRED FOR STRUCTURES AS PER ASTM D1557.
 4. REINFORCING SHALL CONFORM TO THE REQUIREMENTS OF ASTM A615 GRADE 60.
 5. SANITITE HP TRIPLE WALL TO BE USED AS AN APPROVED ALTERNATE FOR ALL PIPE EXCEPT FOR THE PIPE ENTERING THE POND.



SANITITE HP NOTE
 PIPE FITTINGS SHALL BE TRIPLE WALL, SMOOTH INTERIOR AND EXTERIOR, WITH ANNULAR INNER CORRUGATIONS IN CONFORMANCE TO ASTM F2764 FOR PIPE DIAMETERS 30" TO 60". PIPE FITTINGS FOR DIAMETERS UP TO AND INCLUDING 60" SHALL HAVE A MINIMUM PIPE STIFFNESS OF 40 PSI WHEN TESTED IN ACCORDANCE WITH ASTM D2412. PIPE FITTINGS FOR DIAMETERS UP TO AND INCLUDING 60" SHALL BE WATERTIGHT ACCORDING TO THE REQUIREMENTS OF ASTM D3212.



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

PIPE	SECTION SIZE (in)	LENGTH (ft)	SLOPE (ft/ft)	DISCHARGE (cfs)	CAPACITY (cfs)	AVERAGE VELOCITY (fps)	DOWN STREAM GROUND	DOWN STREAM HGL	DOWN STREAM INVERT	UPSTREAM GROUND	UPSTREAM HGL	UPSTREAM INVERT
2-1	36	76	.0254	40.40	115.10	5.82	3993.33	4003.67	3990	4009.01	4004.34	3991.92
2-2	36	145	.0267	40.40	118.10	4.95	4009.01	4003.67	3991.92	4007.10	4004.34	3995.79
2-3	30	68	.0071	23.56	37.44	4.95	4007.10	4005.10	3995.79	4007.77	4005.25	3996.27
2-3	30	285	.0166	23.56	57.24	4.95	4007.77	4005.60	3999.27	4006.85	4006.98	4001.00

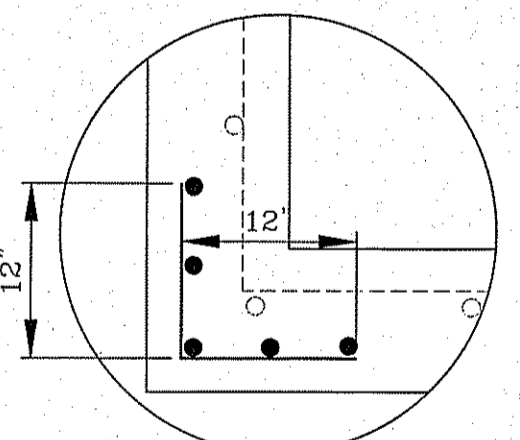
INLET DATA

INLET No.	INLET TYPE	No. GRATES	Qd ₅₀ yr. cfs	Qd ₁₀₀ yr. cfs	Qc cfs
1-1	III	2	3.15	3.52	20.29
1-2	II Mod.	10	20.12	22.79	78.00
1-3	III	5	42.88	48.59	49.52
2-1	III	2	14.89	16.84	20.29
2-2	II-MOD.	10	20.59	23.35	78.00

CLOGGING FACTOR = 2/3

STREET CARRYING CAPACITY-1% CROWN-60 YR STORM

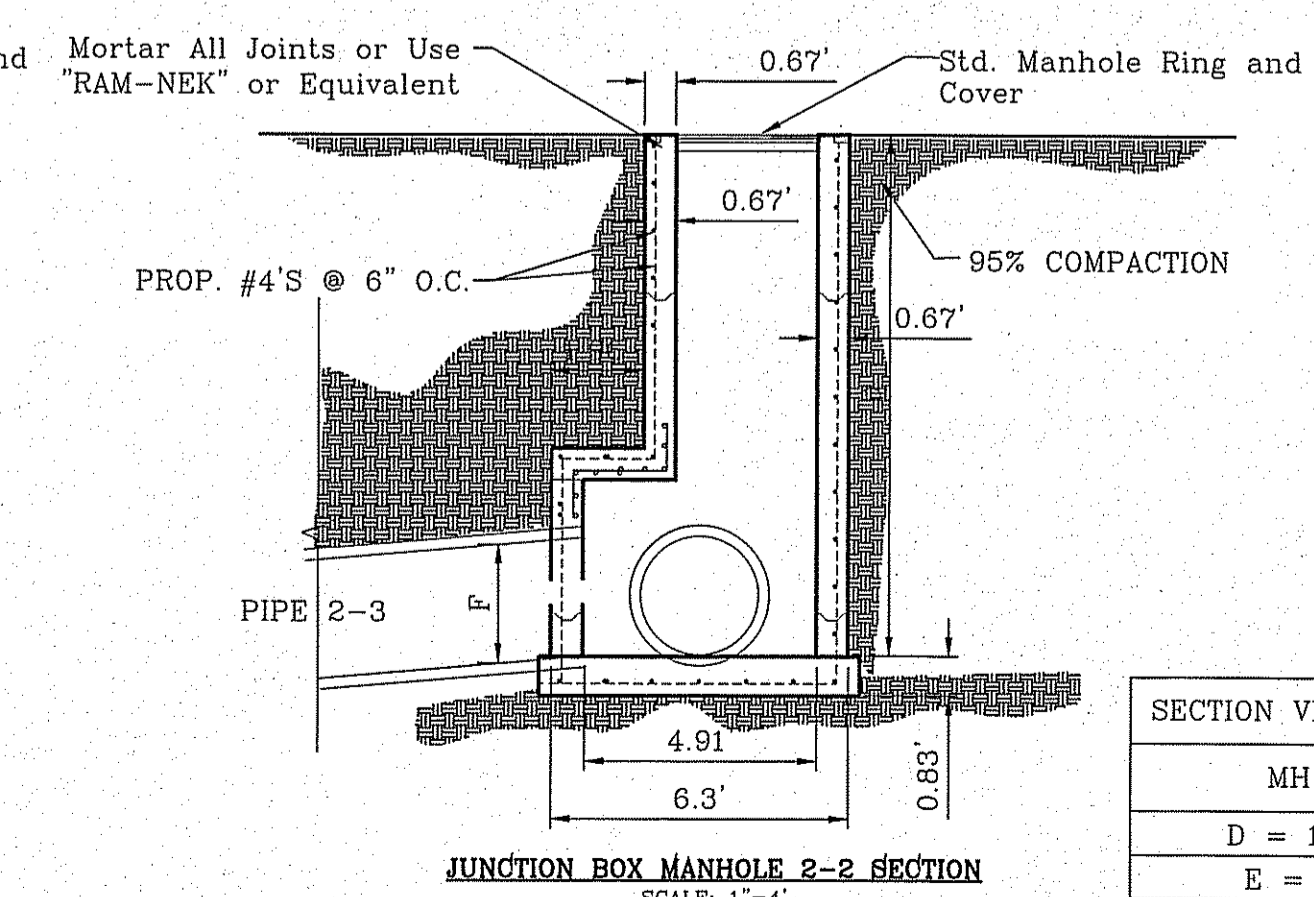
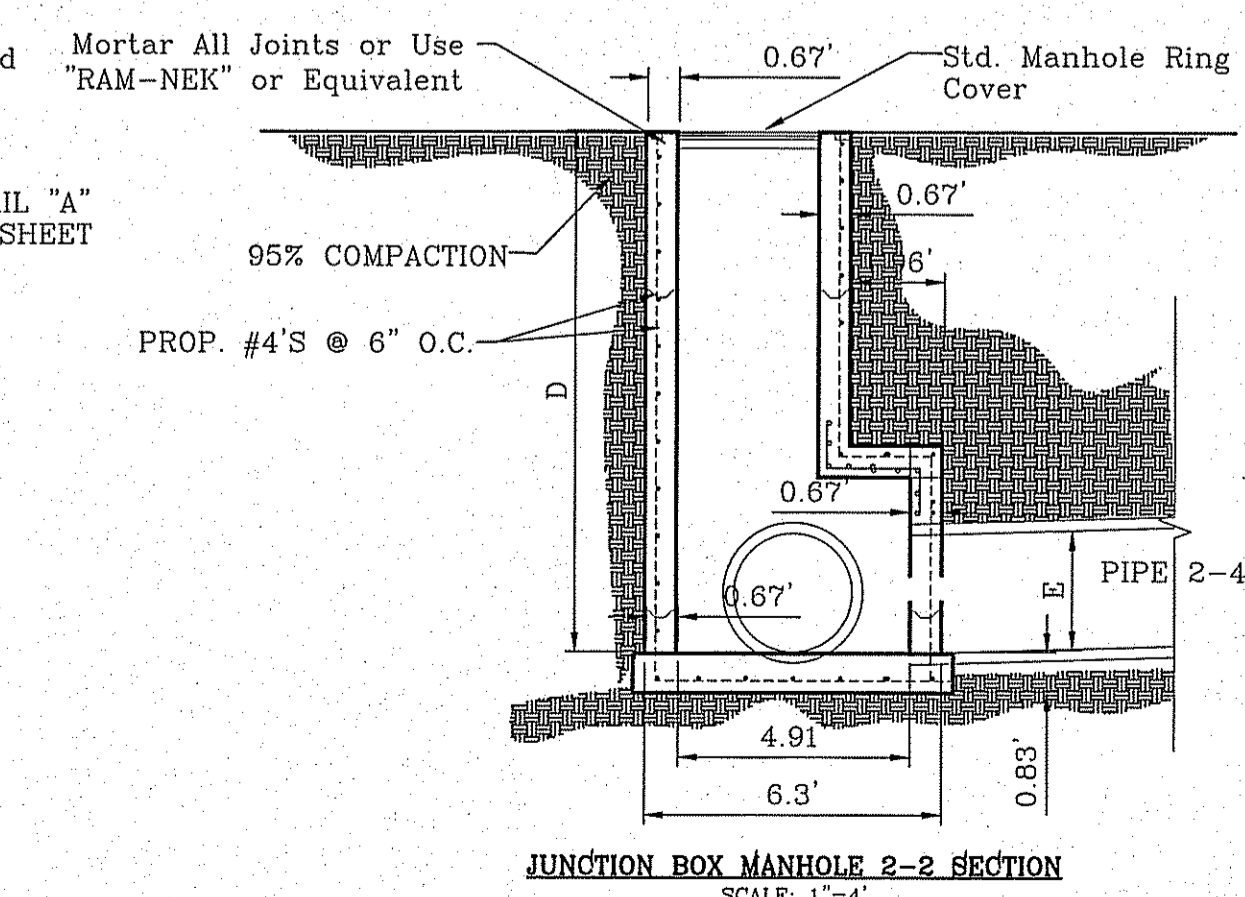
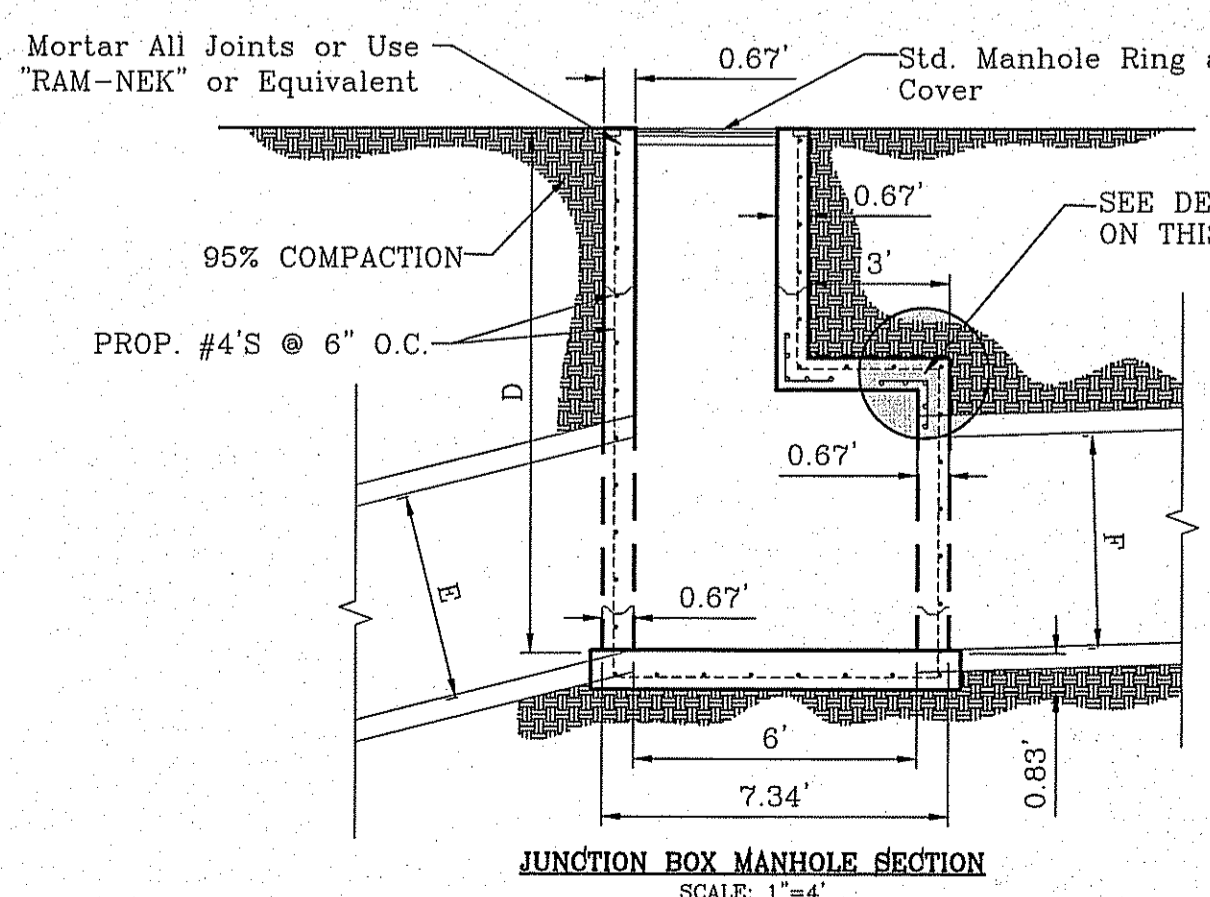
STREET NAME	STATION	Q _c CFS	Velocity	Depth	Q ₅₀ CFS @ 5"
BLACK MESQUITE DR.	15+15	20.12	2.53	0.43	34.83
MESQUITE THORN DR.	15+15	20.59	2.50	0.44	34.83



DETAIL "A" TYPICAL REBAR AT CONCRETE BENDS SCALE NTS

SECTION VIEW CHART

MH 1-1	MH 1-2	MH 2-1
D = 14.25'	D = 7.92'	D = 17.09'
E = 42"	E = 42"	E = 36"
F = 42"	F = 36"	F = 36"



SECTION VIEW CHART

MH 2-2
D = 11.50'
E = 30"
F = 30"

BENCHMARK LOCATED AT THE CENTERLINE INTERSECTION OF COPPER TOWN DRIVE AND MESQUITE HILLS DRIVE. ELEV. = 4013.08

MESQUITE HILLS UNIT 8
 BEING PORTION OF TRACT 6C, SECTION 16 AND PORTION OF TRACTS 1D AND 1E, SECTION 17, BLOCK 80, TOWNSHIP 1, TEXAS AND PACIFIC RAILROAD CO. SURVEYS. CITY OF EL PASO, EL PASO COUNTY, TEXAS CONTAINING: 37.031 ACRES

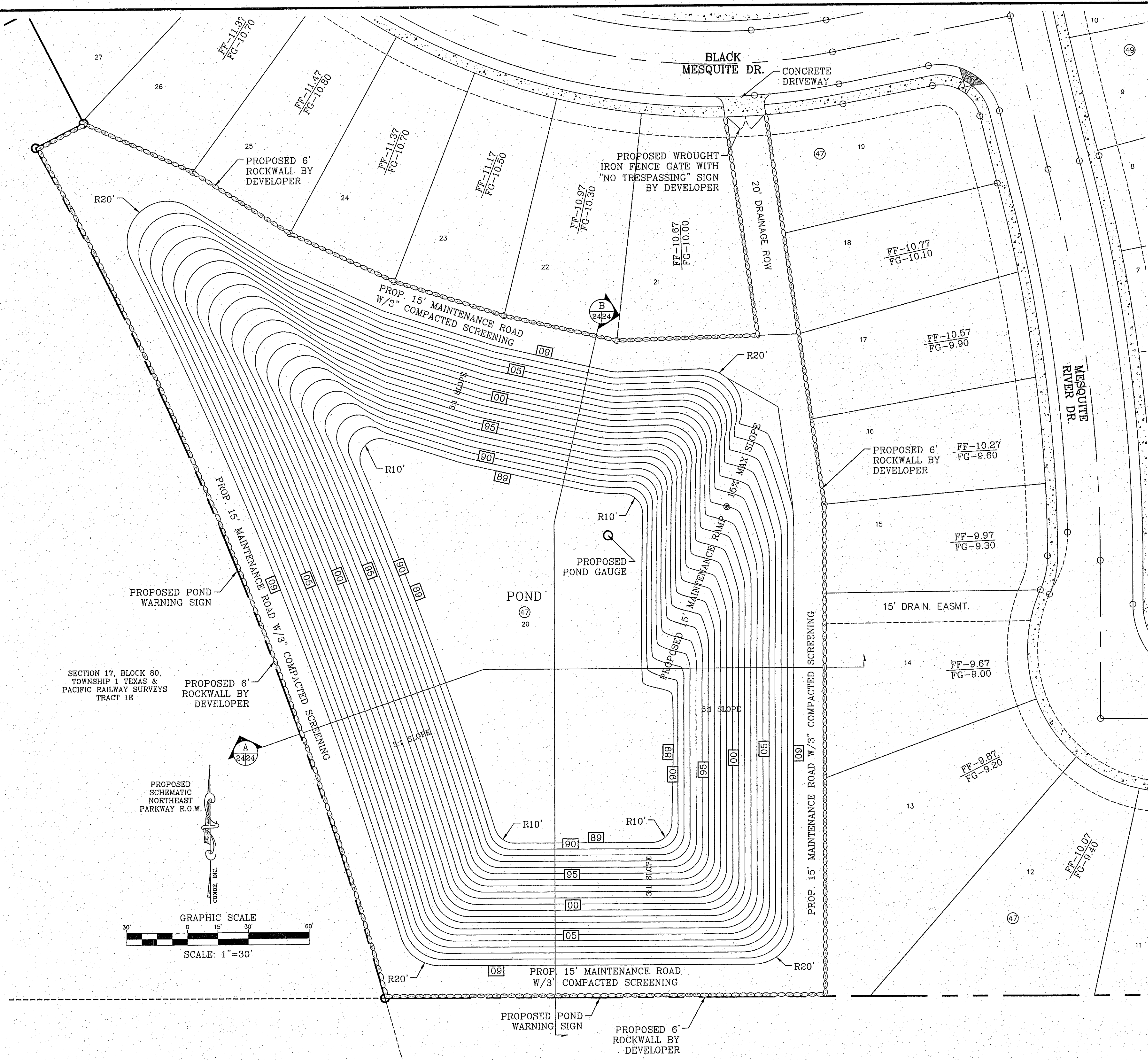
SCALE
 HORIZ: 1" = 30'
 VERT: 1" = 10'
 DATE: FEB. 2016
 DESIGN BY: Y.C.
 INITIATED BY: E.J.
 CHECKED BY: Y.C.
 JOB NO.: 113-30

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

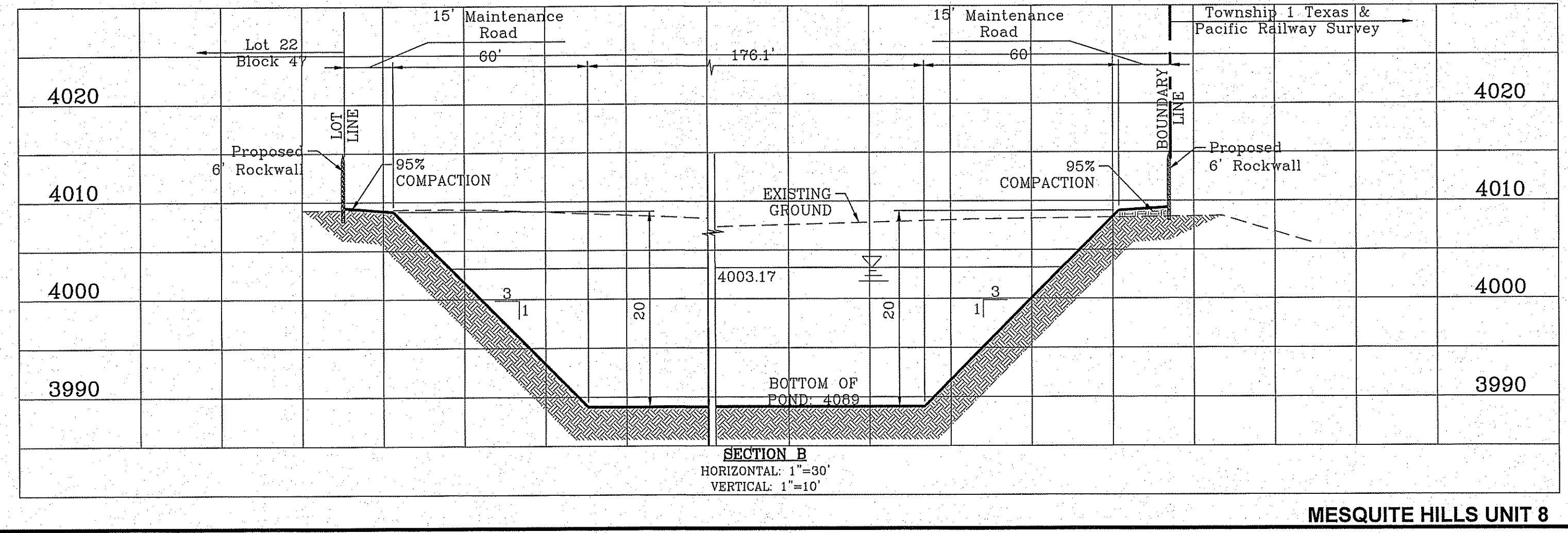
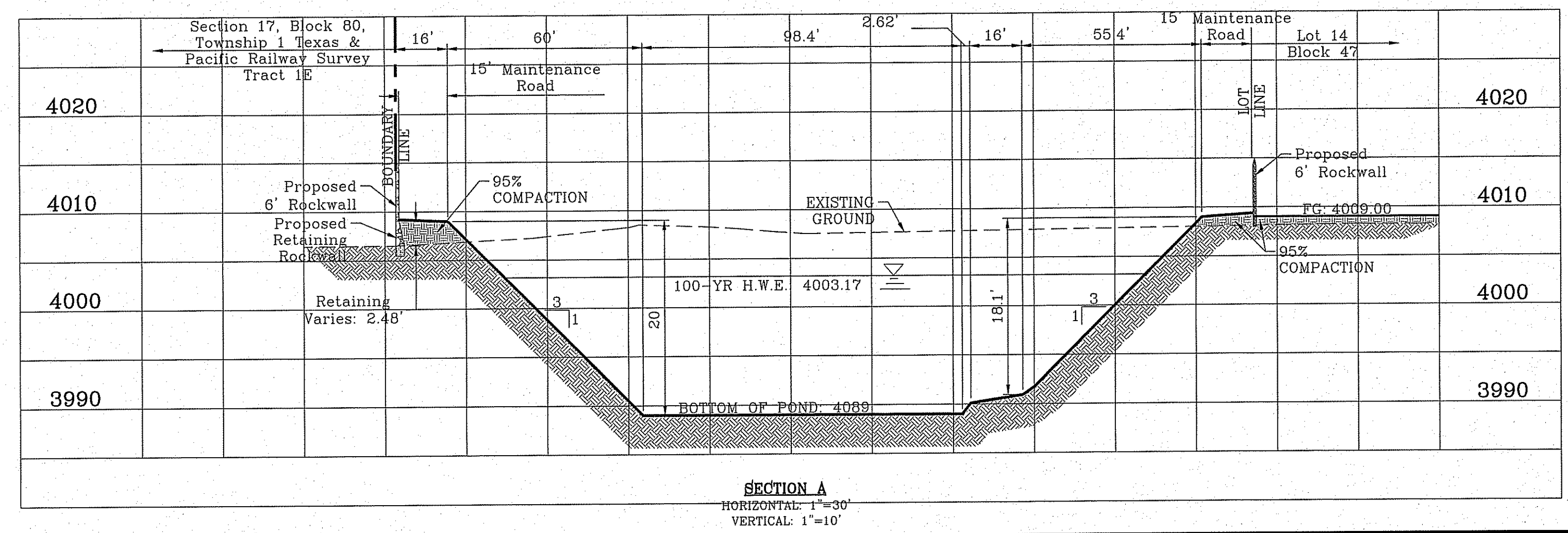
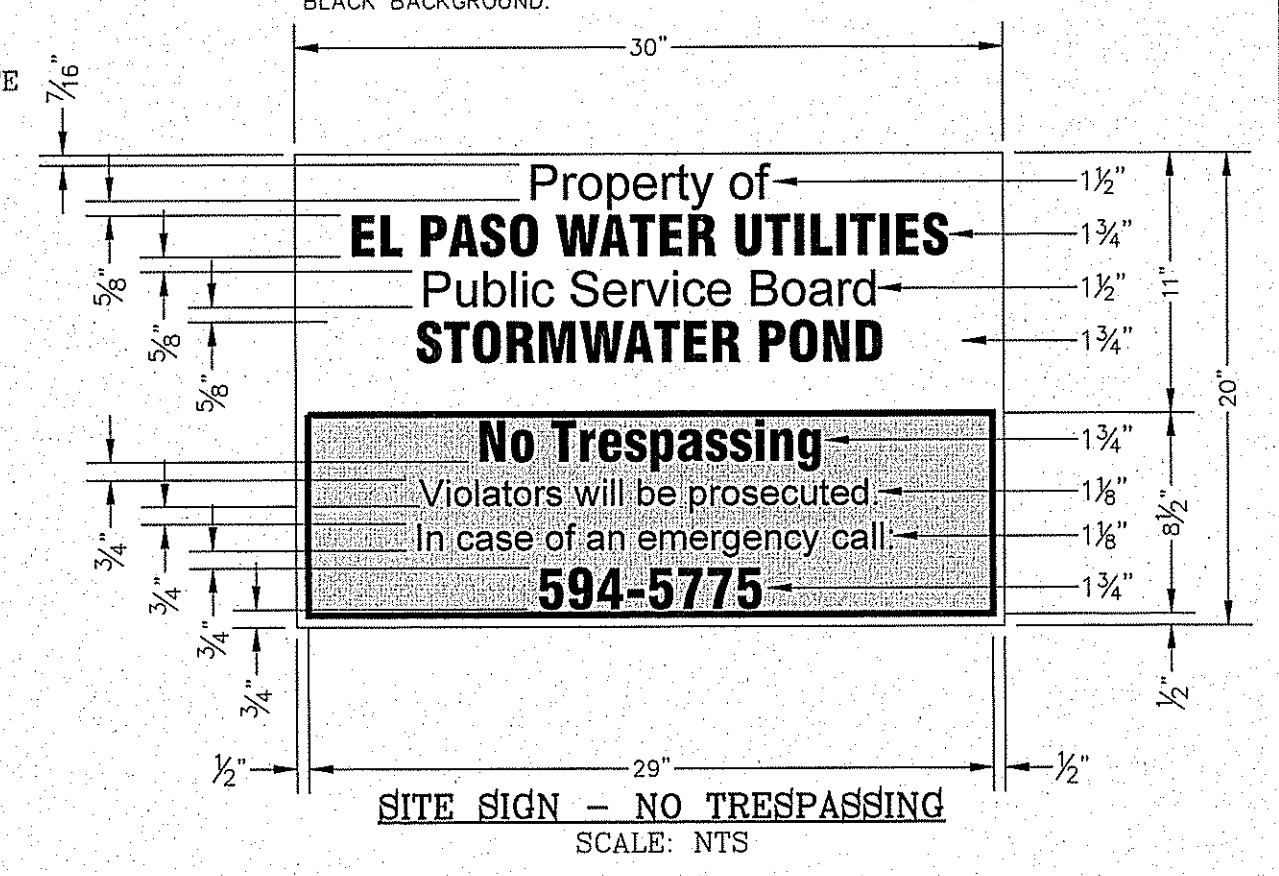
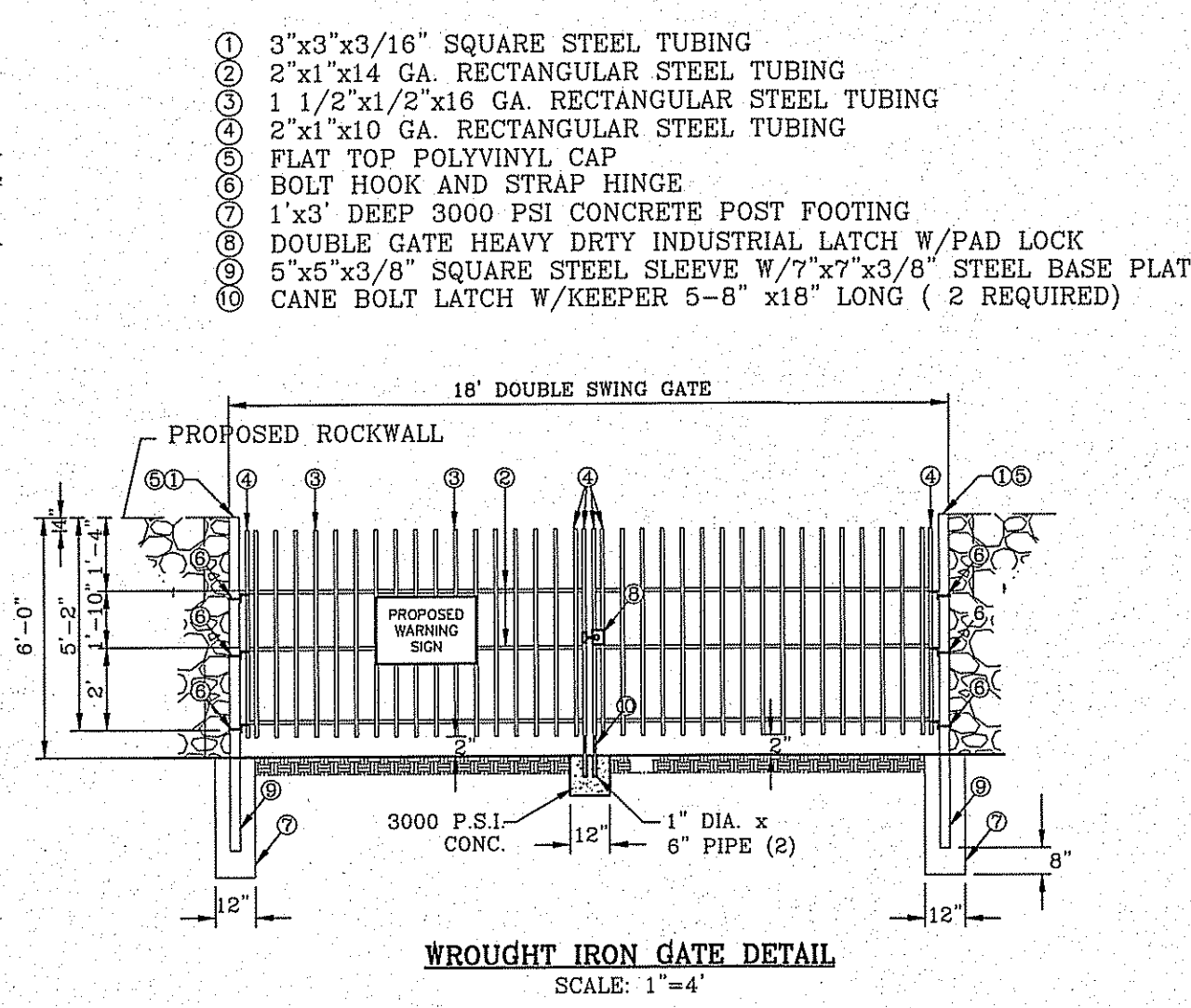
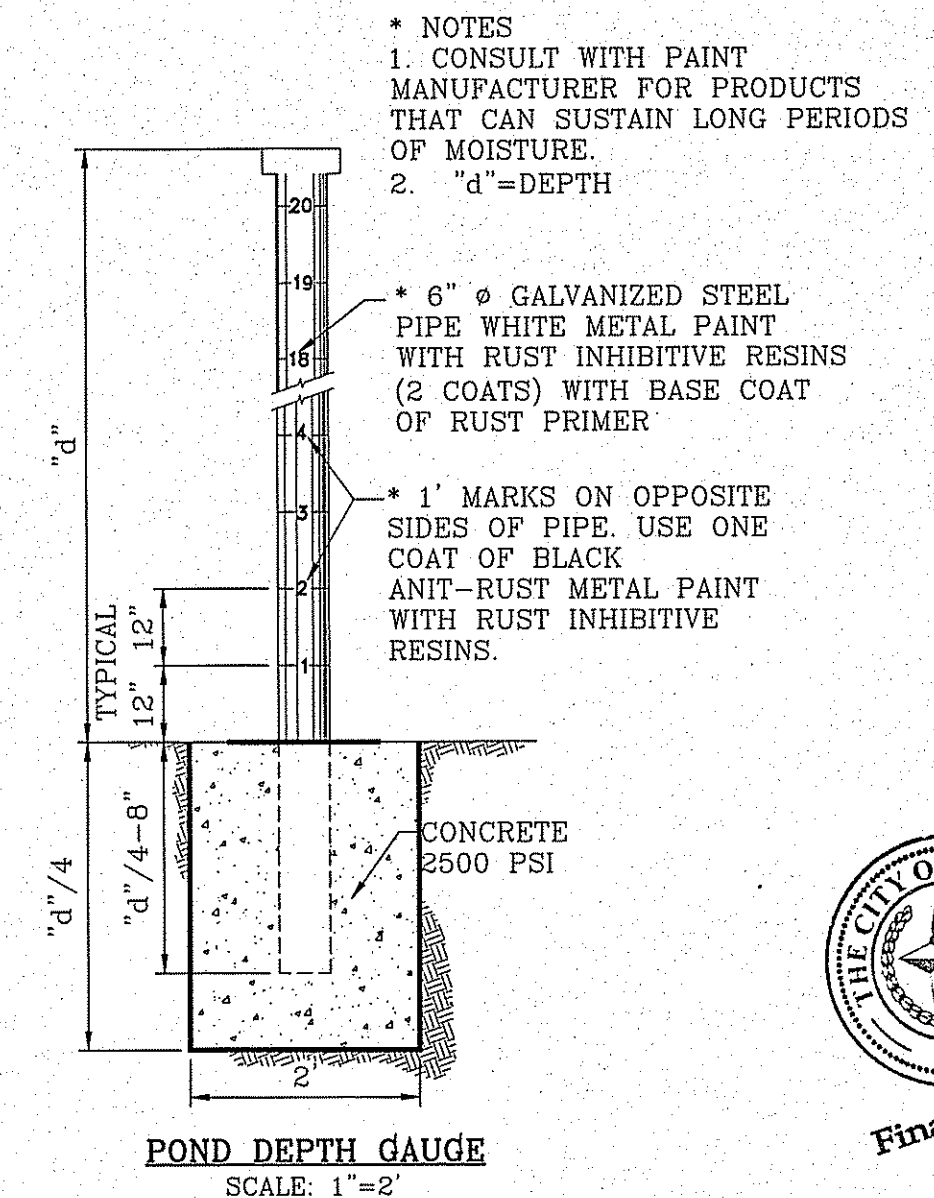
MESQUITE RIVER STRUCTURE NO. 2

FILE LOCATION s:\subdivisions\MESQUITE HILLS 8\DWG\MESQUITE HILLS 8 - POND PLOTTED ON Thursday, November 17, 2016 2:17:09 PM BY ESTEBAN JUAREZ



ELEV	AREA (sq. ft.)	CONIC INC. VOL. (ac. ft.)	CONIC TOTAL VOL. (ac. ft.)
3,989.00	19,834.94	N/A	0.00
3,990.00	21,778.06	0.48	0.48
3,991.00	23,853.95	0.52	1.00
3,992.00	26,023.54	0.57	1.57
3,993.00	28,286.92	0.62	2.20
3,994.00	30,643.83	0.68	2.87
3,995.00	33,094.10	0.73	3.60
3,996.00	35,637.88	0.79	4.39
3,997.00	38,275.25	0.85	5.24
3,998.00	41,006.90	0.91	6.15
3,999.00	43,831.82	0.97	7.12
4,000.00	46,750.07	1.04	8.16
4,001.00	49,761.59	1.11	9.27
4,002.00	52,865.99	1.18	10.45
4,003.00	56,063.56	1.25	11.70
4,004.00	59,354.34	1.32	13.02
4,005.00	62,738.27	1.40	14.43
4,006.00	66,215.43	1.48	15.91
4,007.00	69,785.90	1.56	17.47
4,008.00	73,451.02	1.64	19.11
4,009.00	77,204.11	1.73	20.84

$QT = \frac{A R C}{12} = AC-FT$			
POND CALC.			
$QT=ACR/12$			
A=TOTAL AREA IN ACRES			
R=RAINFALL IN INCHES			
C=RUNOFF FACTOR			
RESIDENTIAL=& POND	37.03(4)	0.60	7.41 ac-ft
	12		
FUT. COMM=	15.18(4)	0.90	4.55 ac-ft
	12		
			11.96 ac-ft
SILT & DEBRIS =			0.63
Qreq (TOTAL) =			12.59
Qcap (TOTAL) =			20.84
100 YEAR HW ELEVATION = 4003.17			



BENCHMARK LOCATED AT THE CENTERLINE INTERSECTION OF COPPER TOWN DRIVE AND MESQUITE HILLS DRIVE. ELEV.=4013.00

DATE	07/06/16
BY	E.J.
REVISIONS	AS PER CITY REDLINES COMMENTS
E.I.	

PROJECT NAME: **MESQUITE HILLS UNIT 8**

BEING PORTION OF TRACT AC, SECTION 16 AND PORTION OF TRACTS 1D AND 1E, SECTION 17, BLOCK 80, TOWNSHIP 1, TEXAS AND PACIFIC RAILROAD CO. SURVEYS, CITY OF EL PASO, EL PASO COUNTY, TEXAS CONTAINING: 37.031 ACRES

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

DATE: FEB. 2016
DESIGN BY: Y.C.
INITIATED BY: E.J.
CHECKED BY: Y.C.
JOB NO.: 113-30

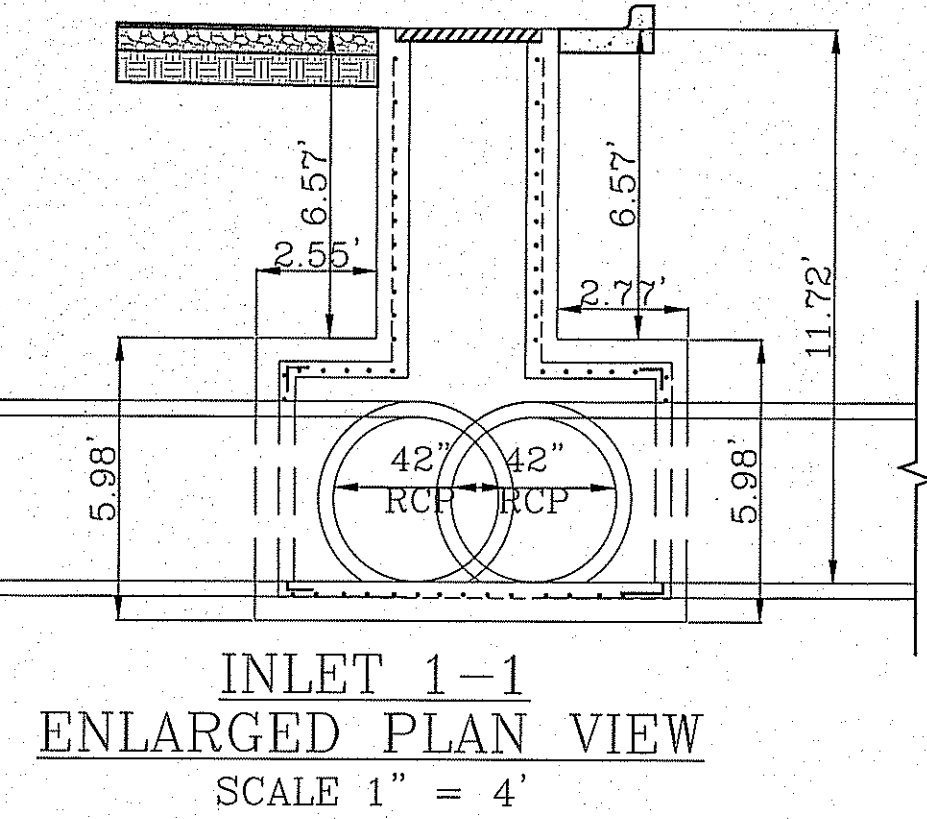
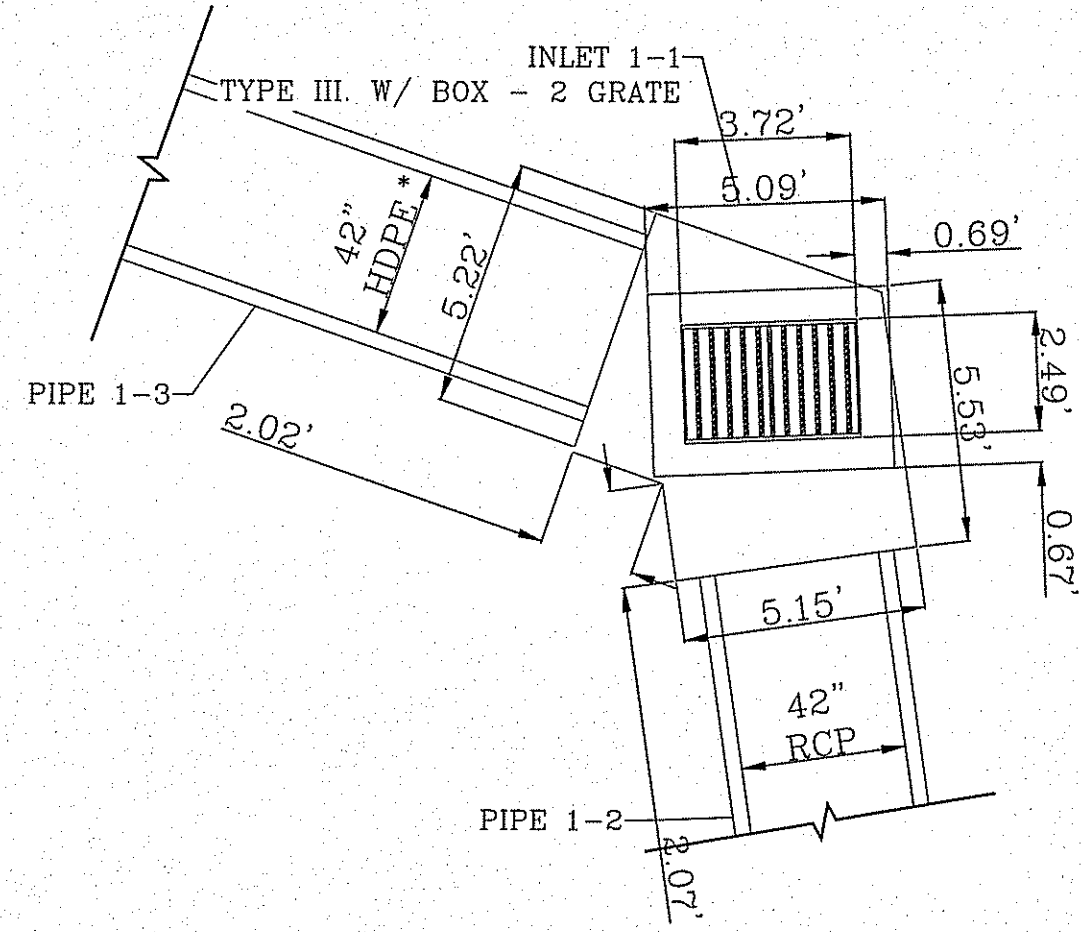
CONDE INC.
ENGINEERING / PLANNING / SURVEYING / GPS
6080 SURETY DR. STE 100
EL PASO, TEXAS 79905
PHONE: (915) 592-0283
FAX: (915) 592-0286

CONDE INC.
REGISTRATION No. F-2921

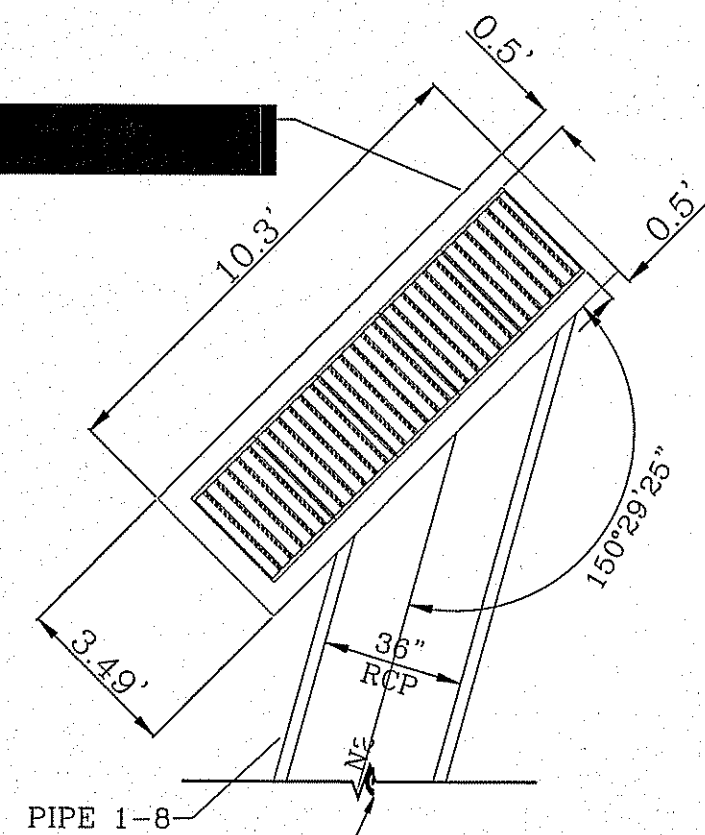
SHEET TITLE: **POND WITH SECTIONS**

SHT 24 OF 30

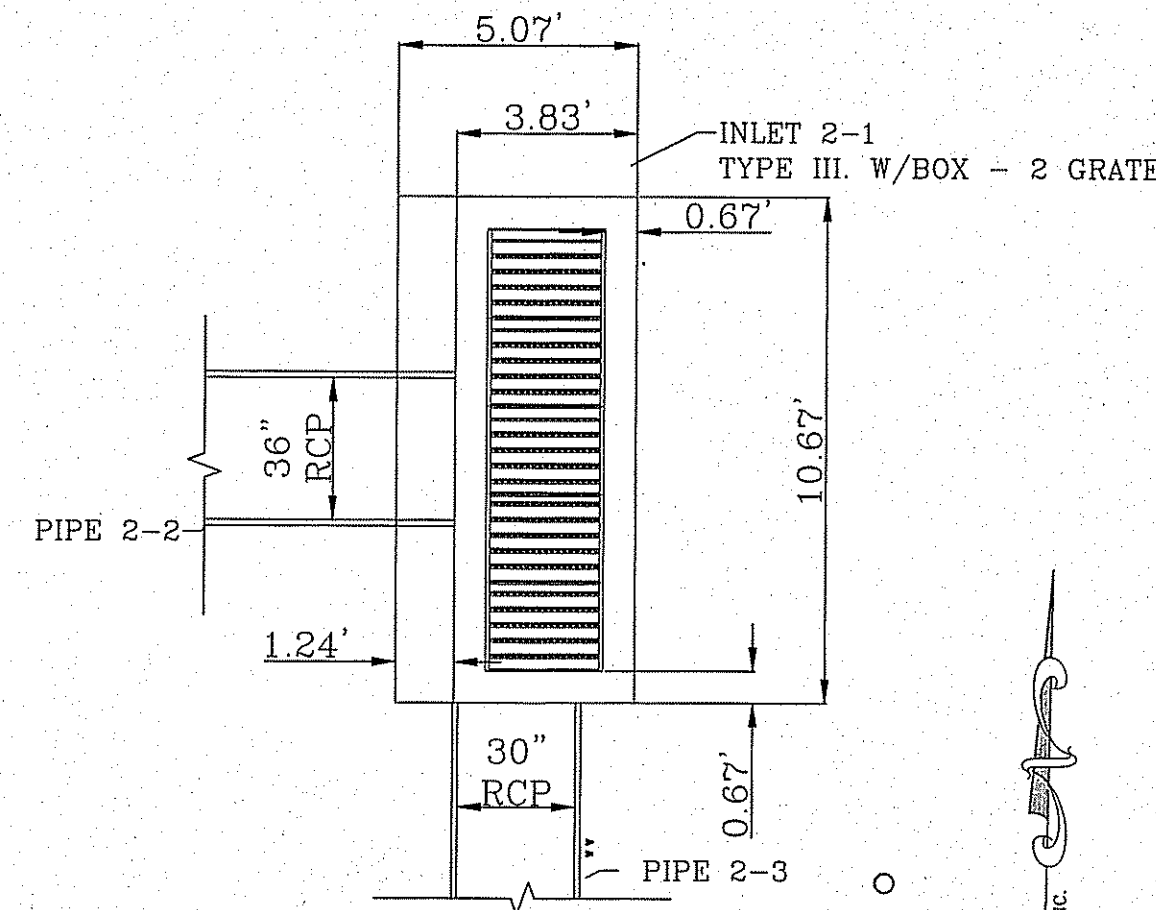
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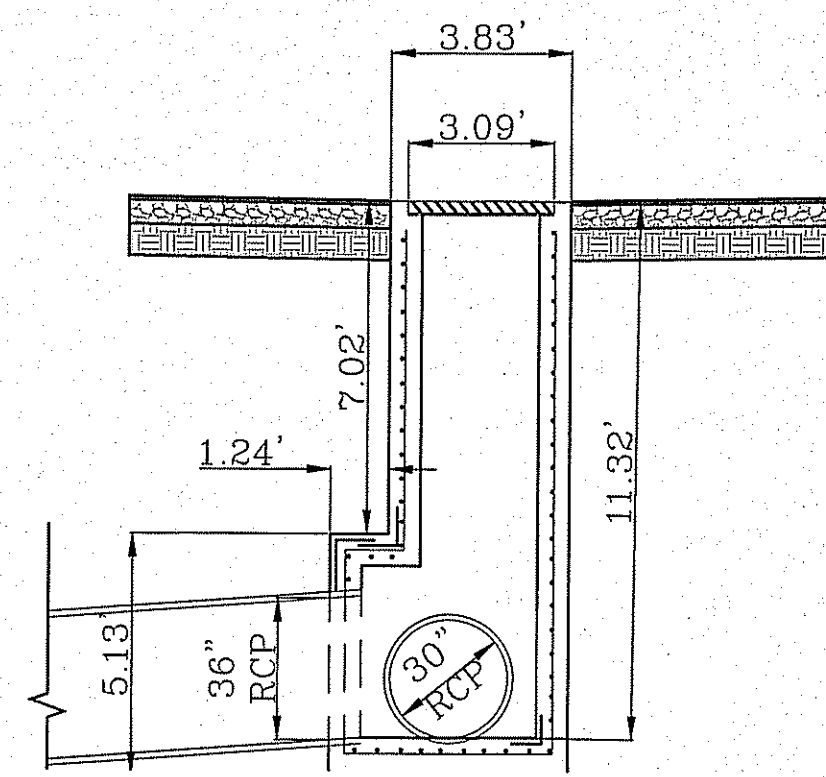
**INLET 1-1
ENLARGED PLAN VIEW**
SCALE 1" = 4'



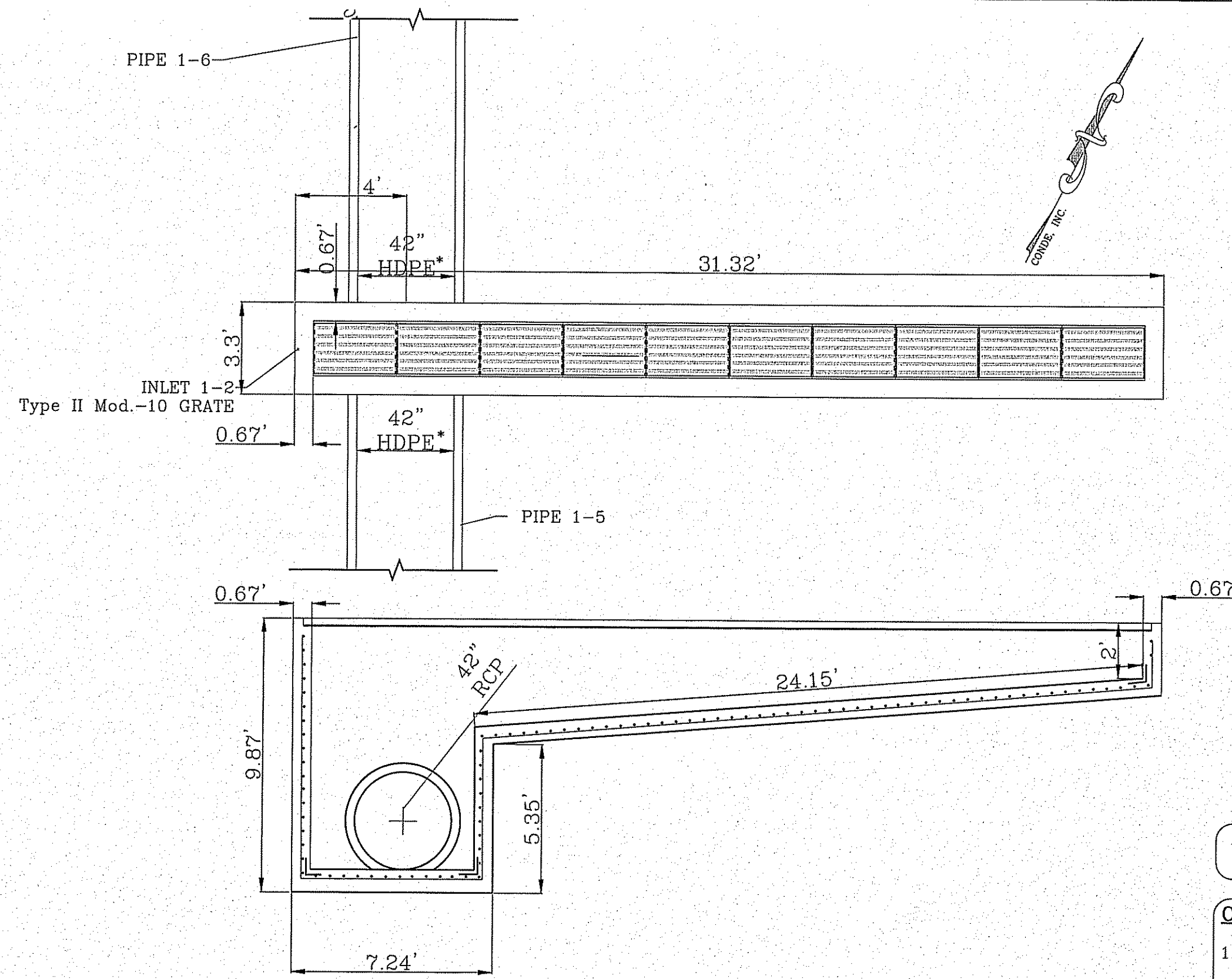
**INLET 1-3 OFFSTREET
ENLARGED PLAN VIEW**
SCALE 1" = 4'



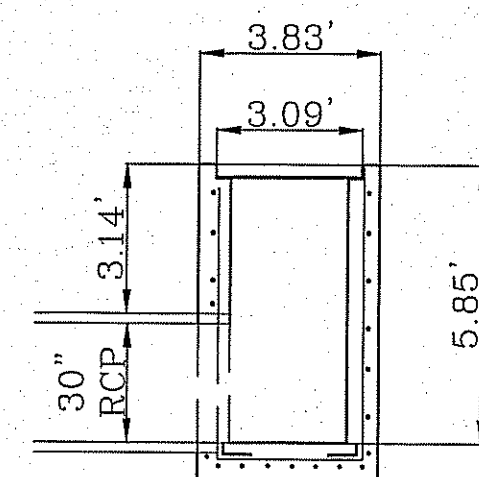
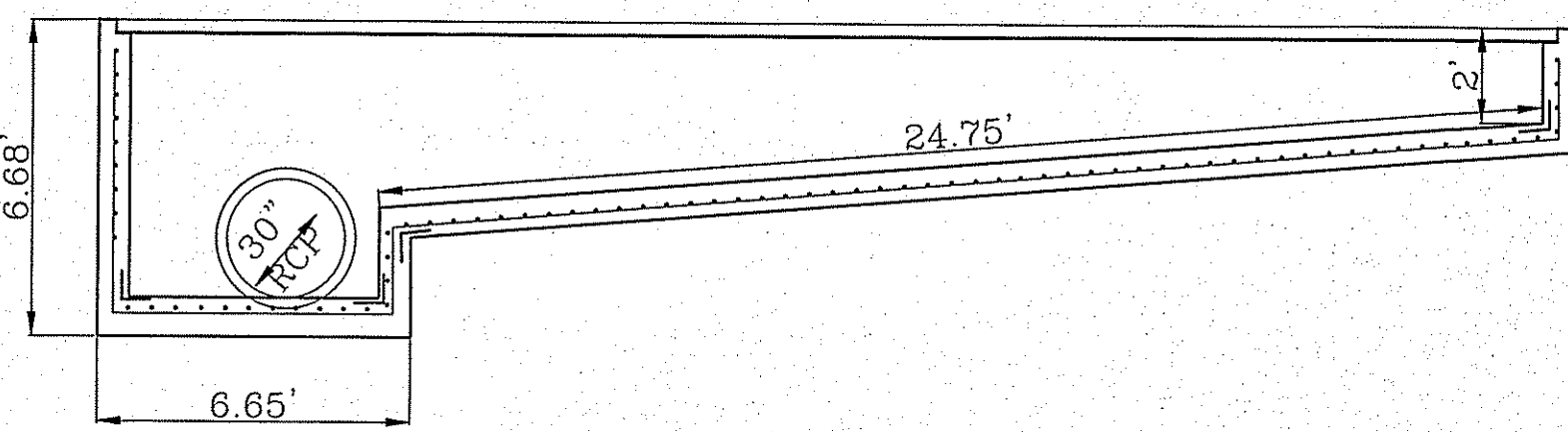
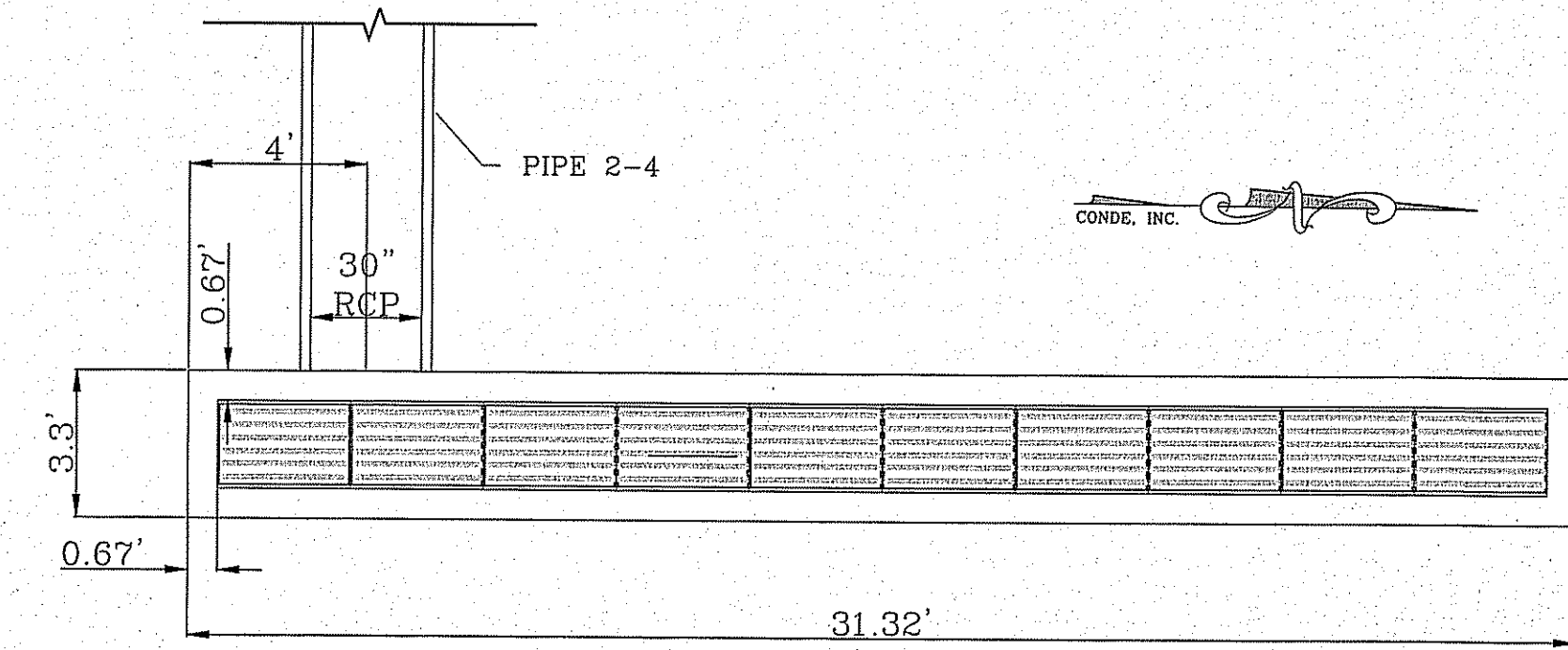
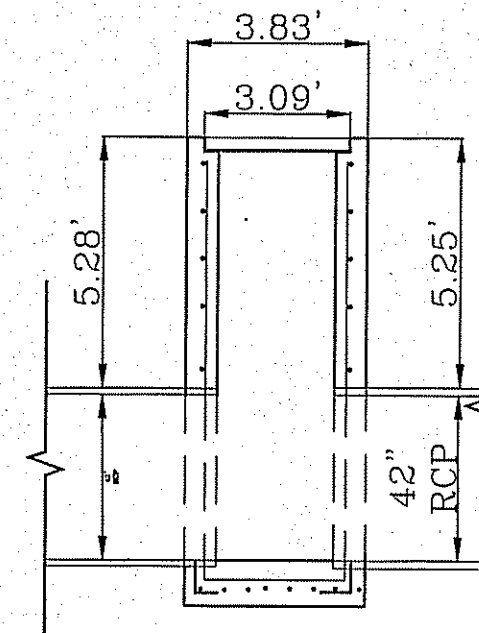
**INLET 2-1
ENLARGED PLAN VIEW**
SCALE 1" = 4'



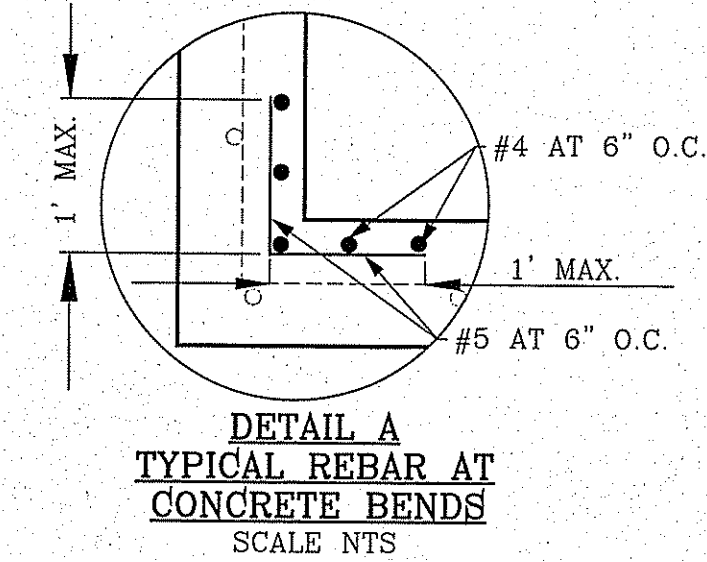
**INLET 2-1
ENLARGED PLAN VIEW**
SCALE 1" = 4'



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



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



ALL R.C.P. ARE CLASS III OR SANITITE HP TRIPLE WALL 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 D1557.
 - REINFORCING SHALL CONFORM TO THE REQUIREMENTS OF ASTM A615 GRADE 60.
 - SANITITE HP TRIPLE WALL TO BE USED AS AN APPROVED ALTERNATE FOR ALL PIPE EXCEPT FOR THE PIPE ENTERING THE POND.

HDPE NOTE

PIPE FITTINGS SHALL BE TRIPLE WALL, SMOOTH INTERIOR AND EXTERIOR, WITH ANNULAR INNER CORRUGATIONS IN CONFORMANCE TO ASTM F2764 FOR PIPE DIAMETERS 30" TO 60". PIPE FITTINGS FOR DIAMETERS UP TO AND INCLUDING 60" SHALL HAVE A MINIMUM PIPE STIFFNESS OF 40 PSI WHEN TESTED IN ACCORDANCE WITH ASTM D2412. PIPE FITTINGS FOR DIAMETERS UP TO AND INCLUDING 60" SHALL BE WATERTIGHT ACCORDING TO THE REQUIREMENTS OF ASTM D3212.



BENCHMARK	BENCHMARK LOCATED AT THE CENTERLINE INTERSECTION OF COPPER TOWN DRIVE AND MESQUITE HILLS DRIVE. ELEV. = 4013.08
DATE	
REVISIONS	
BY	

PROJECT NAME
MESQUITE HILLS UNIT 8

BEING PORTION OF TRACT 6C, SECTION 16 AND PORTION OF TRACTS 1D AND 1E, SECTION 17, BLOCK 60, TOWNSHIP 1, RANGE 10N, AND RANGE 10S, COUNTY OF EL PASO, TEXAS. CITY OF EL PASO, TEXAS. CONTAINING: 37.681 ACRES

SCALE	as shown
HORIZ.	as shown
VERT.	as shown
DATE	FEB. 2016
DESIGN BY	Y.C.
INITIATED BY	E.J.
CHECKED BY	Y.C.
JOB NO.	113-30

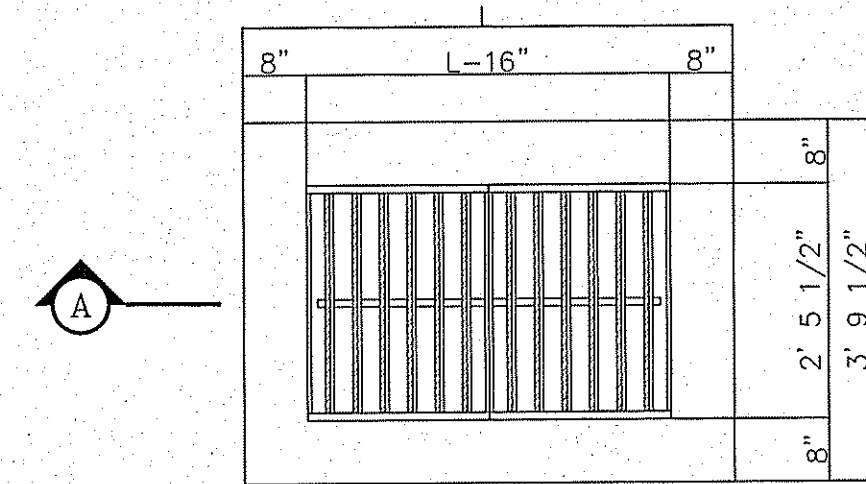
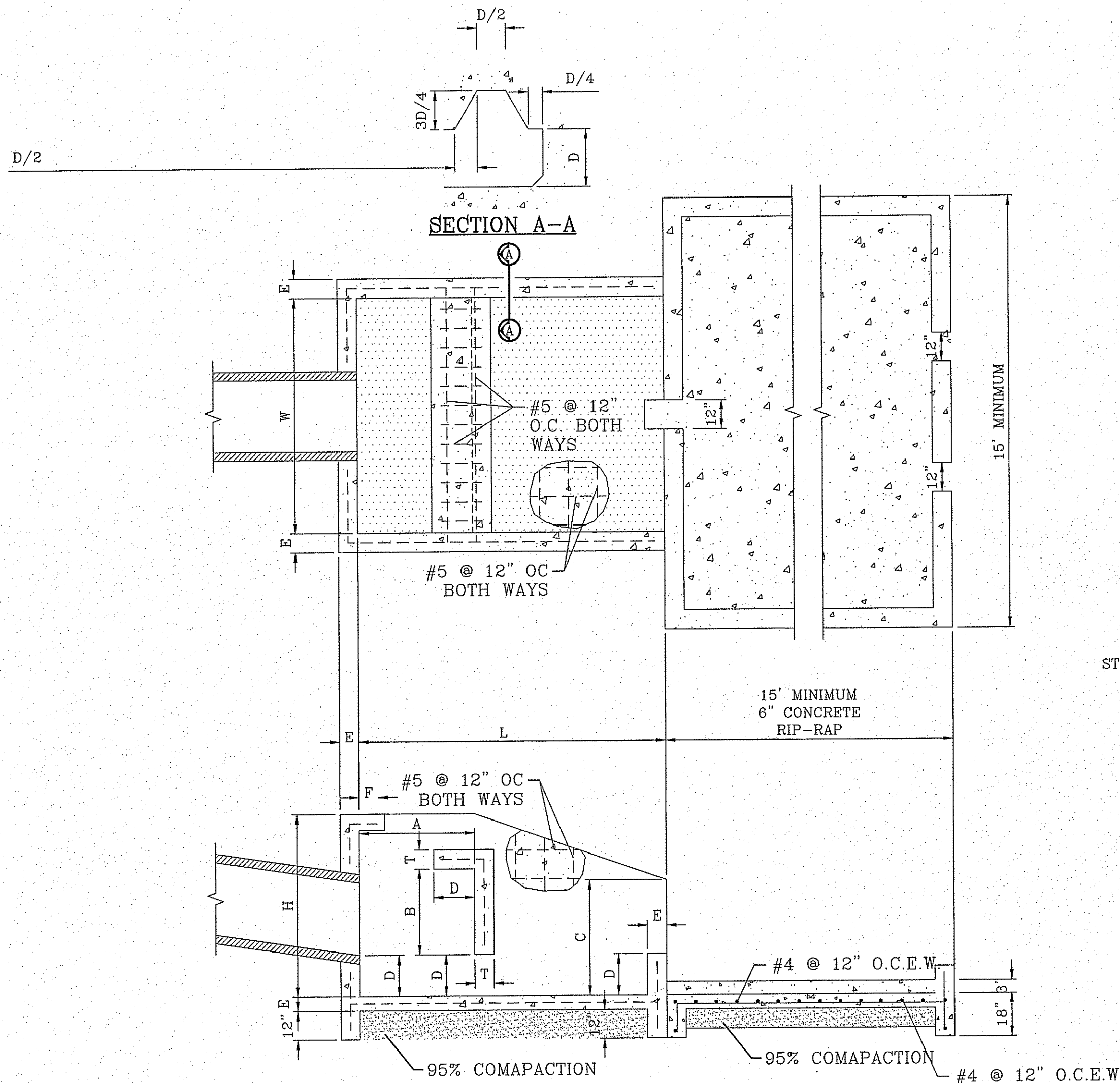
CONDE INC.
ENGINEERING / PLANNING
SURVEYING / GFS
6080 SURETY DR. STE 100
EL PASO, TEXAS 79905
PHONE: (915) 592-0283
FAX: (915) 592-0286

CONDE INC.
REGISTRATION No. F-2321

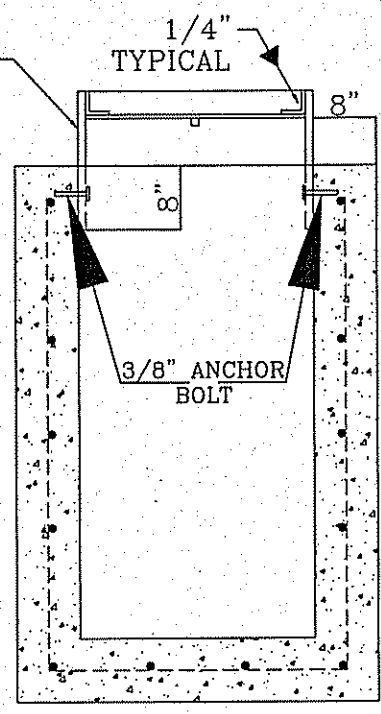
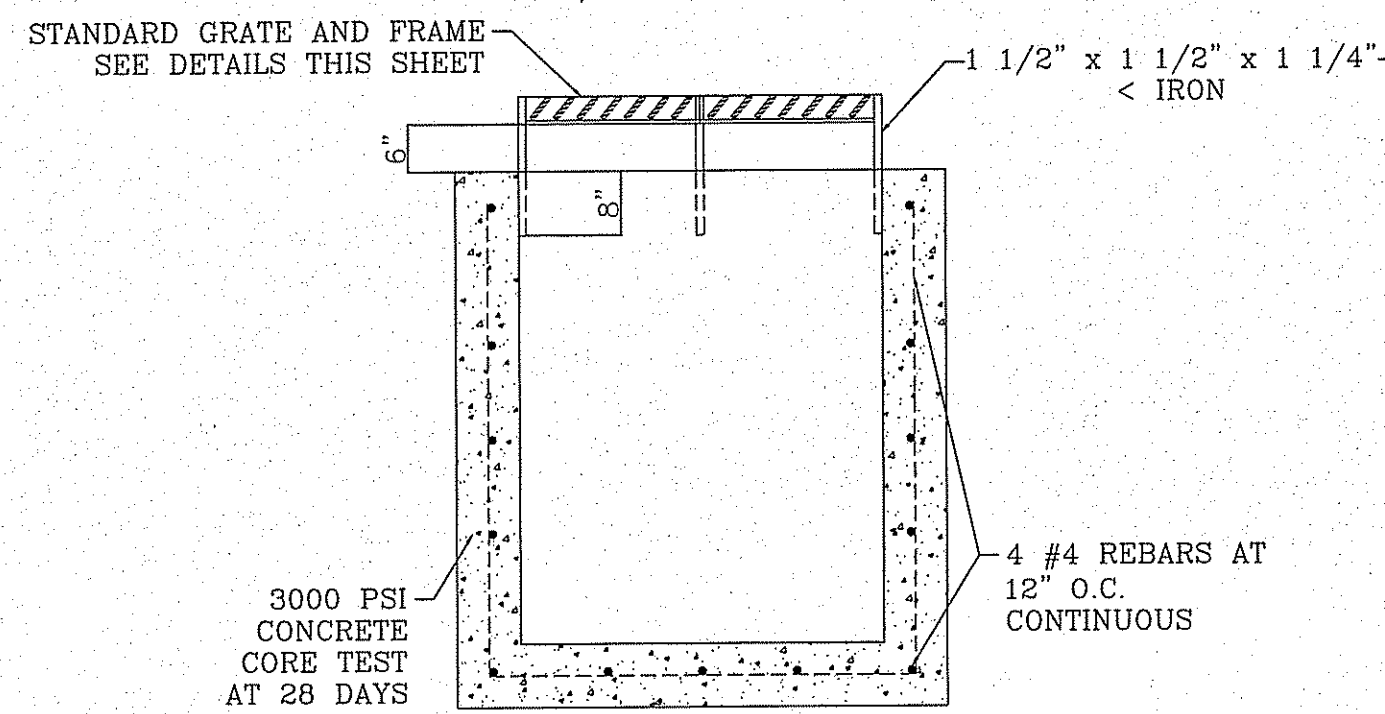
SHEET TITLE
STORM DRAIN INLET DETAILS

SHT 25 OF 30

FILE LOCATION S:\Subdivisions\MESQUITE HILLS 8\DWG\MESQUITE HILLS 8 - STRUCTURE1 PLOTTED ON Thursday, November 17, 2016 2:18:08 PM BY ESTEBAN JUAREZ



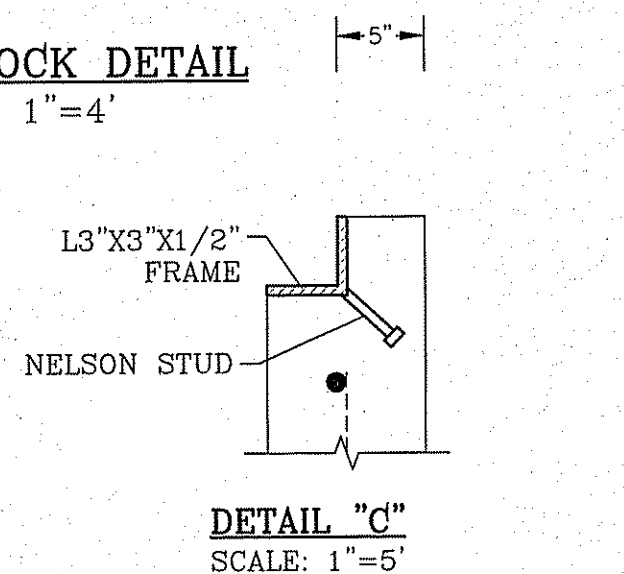
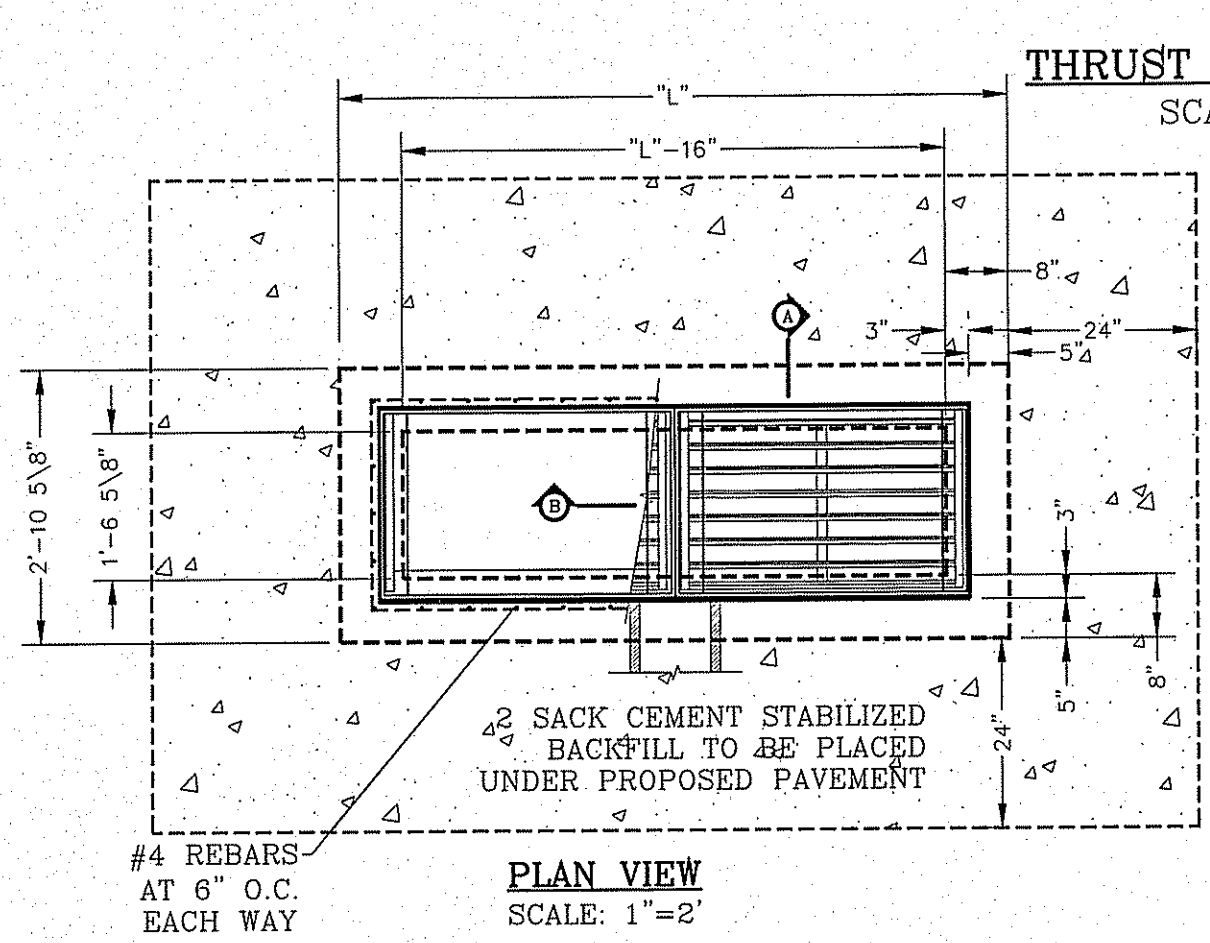
No. OF GRATES	L
1	3' 4"
2	5' 3"
3	7' 2"
4	9' 1"
5	11' 0"
6	12' 11"



SECTION A-A SCALE: 1"=2'
OFF-STEEL STORM INLET

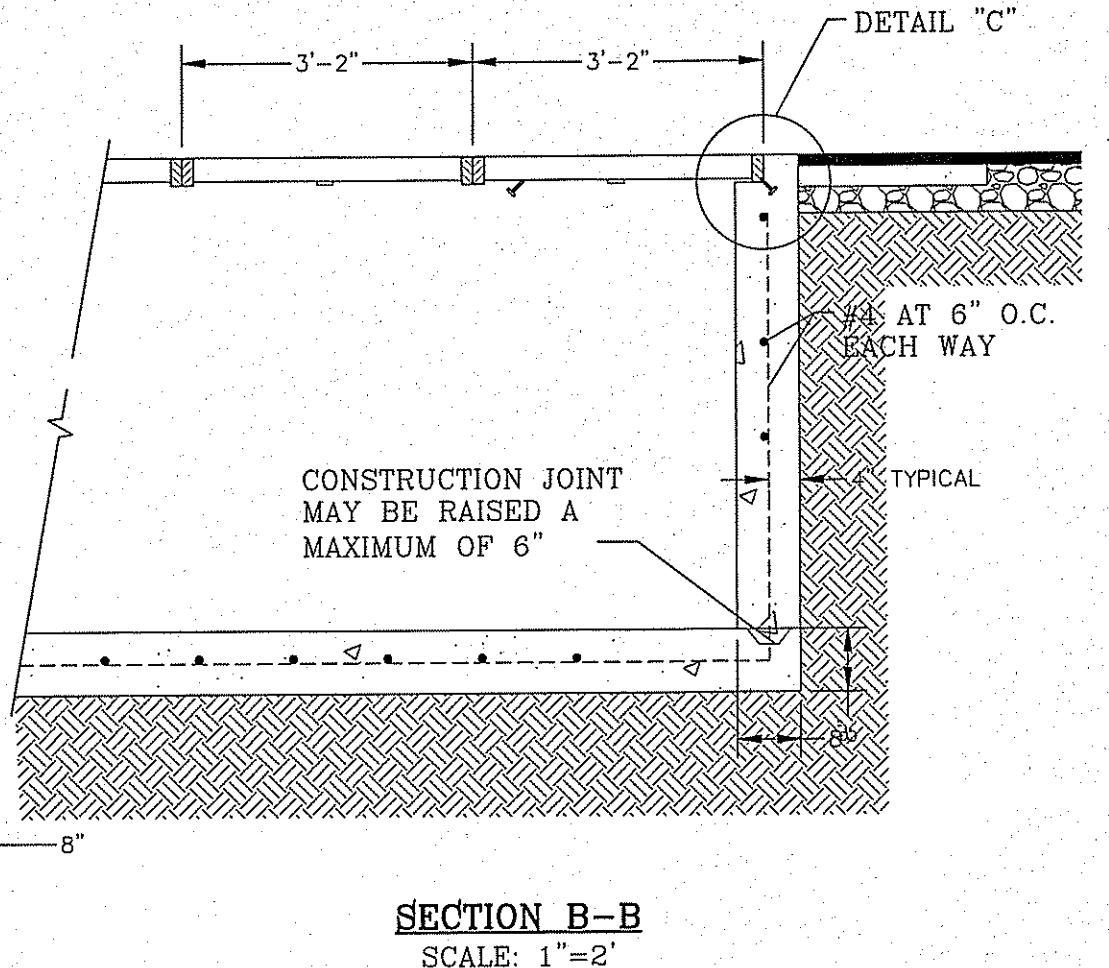
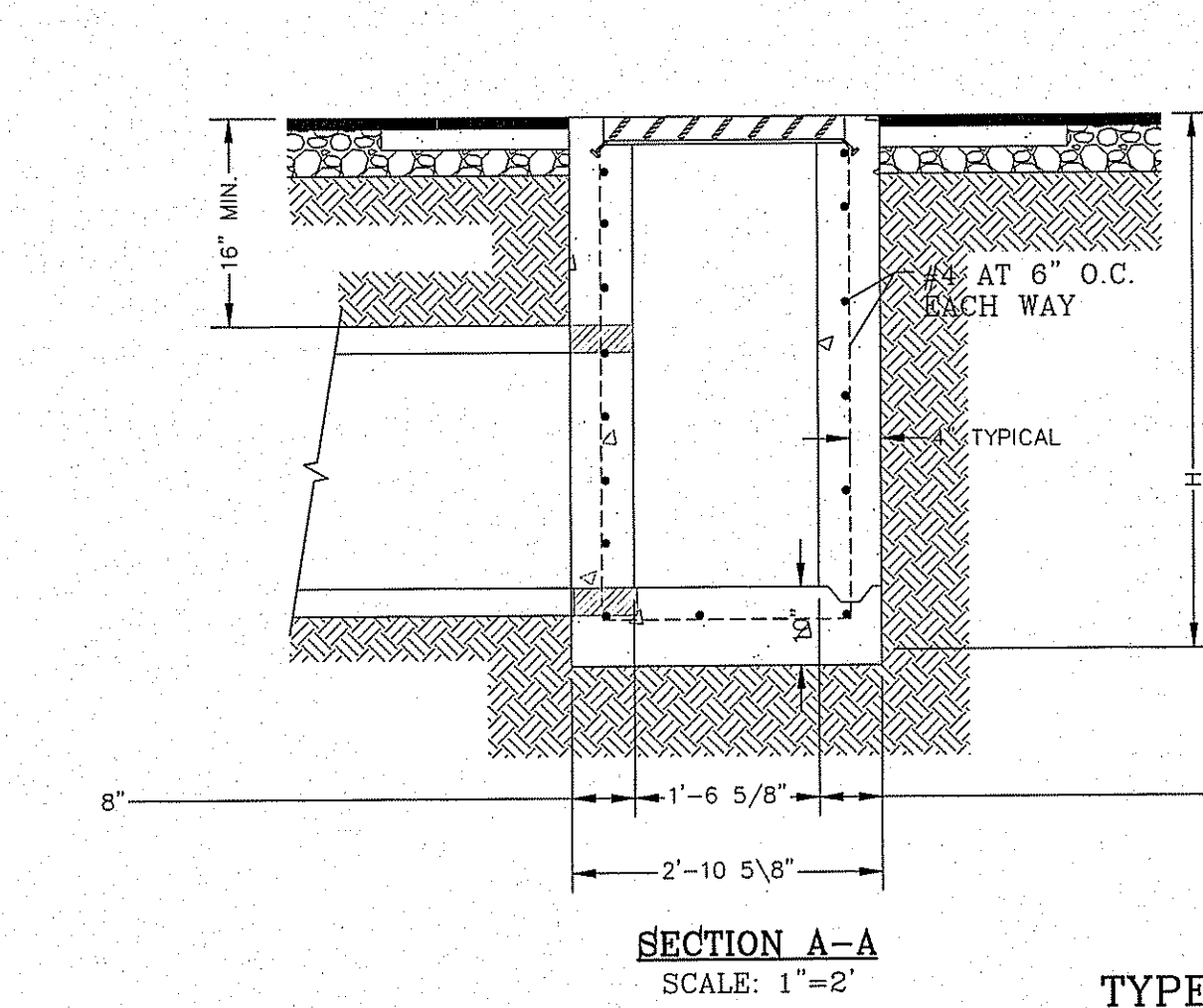
SECTION B-B SCALE: 1"=2'

DATA INPUT FROM STROMCAD & STRUCTURES								THRUST BLOCK DIMENSIONS									
Struct. no.	Pipe size	CFS (total)	Velocity (v)	Depth (d)	g	froud	W/D (from chart)	W	H (3/4)	L (4/3)	A (1/2)	b (3/8)	c (1/2)	d (1/6)	e (1/12)	f (1/12)	t (1/12)
1	42	74.91	7.74	1.37	32.2	1.165	3.50	5'-6"	4'-6"	6'-5"	2'-5"	1'-10"	2'-5"	0'-8"	0'-8"	0'-8"	0'-8"
2	36	40.19	5.82	1.21	32.2	0.932	3.0	5'-0"	4'-0"	4'-10"	1'-10"	1'-5"	1'-10"	0'-8"	0'-8"	0'-8"	0'-8"



No. OF GRATES	"L"
2	7'-1"
3	10'-2"
4	13'-3"
5	16'-4"

- NOTES:
- H=20' MAXIMUM
 - CONCRETE TO BE 3000 PSI MIN. CORE TEST @ 28 DAYS.
 - GRATE TO BE PERPENDICULAR TO TRAFFIC.

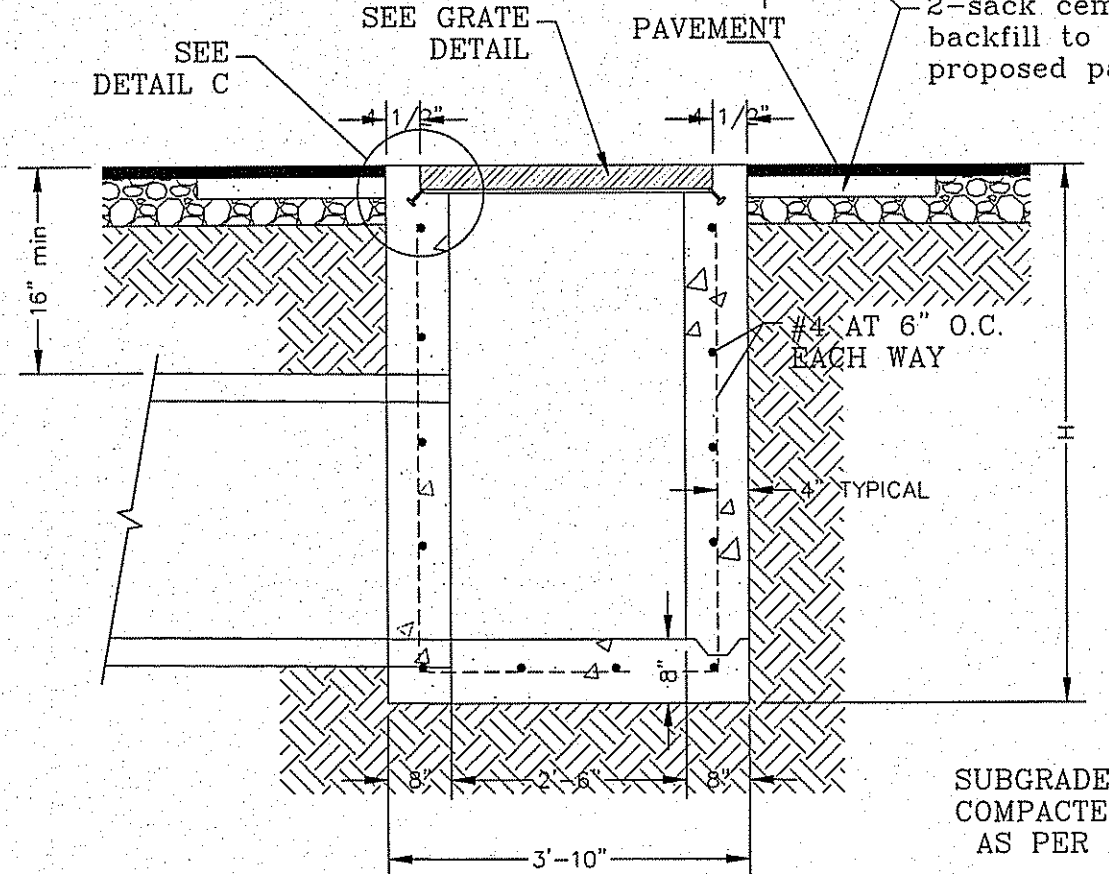
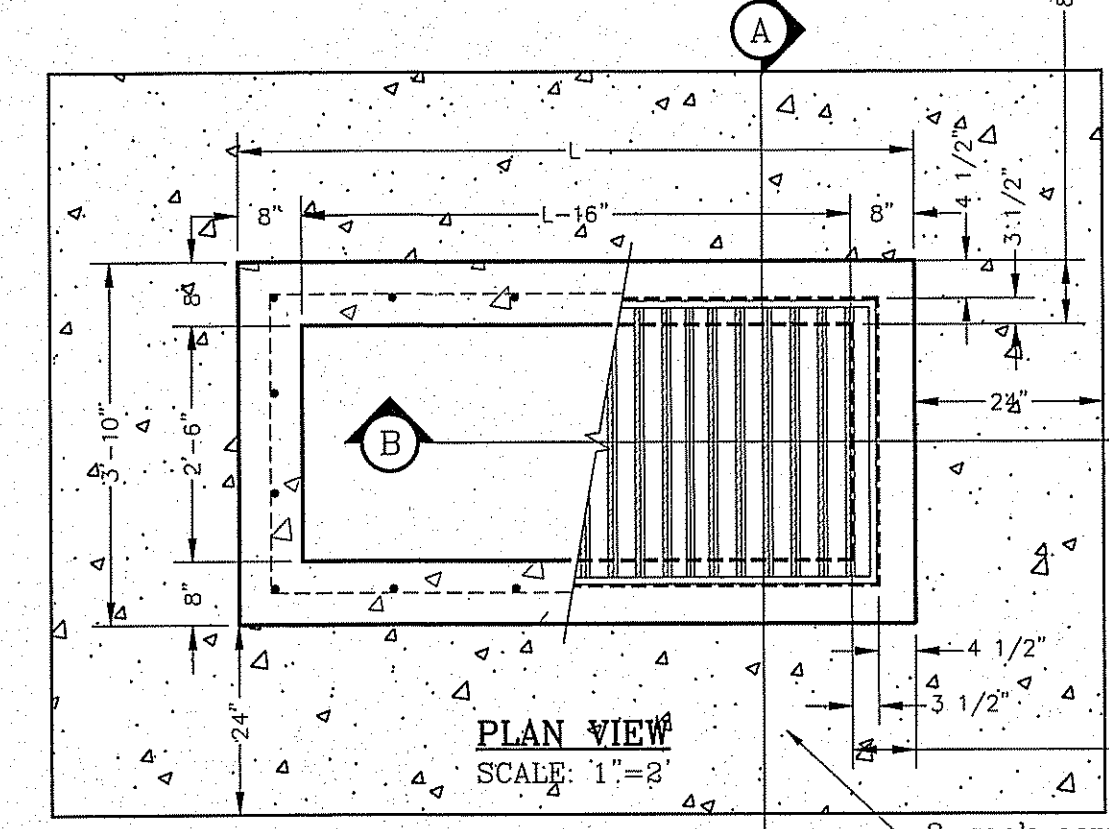


SECTION A-A SCALE: 1"=2'

SECTION B-B SCALE: 1"=2'

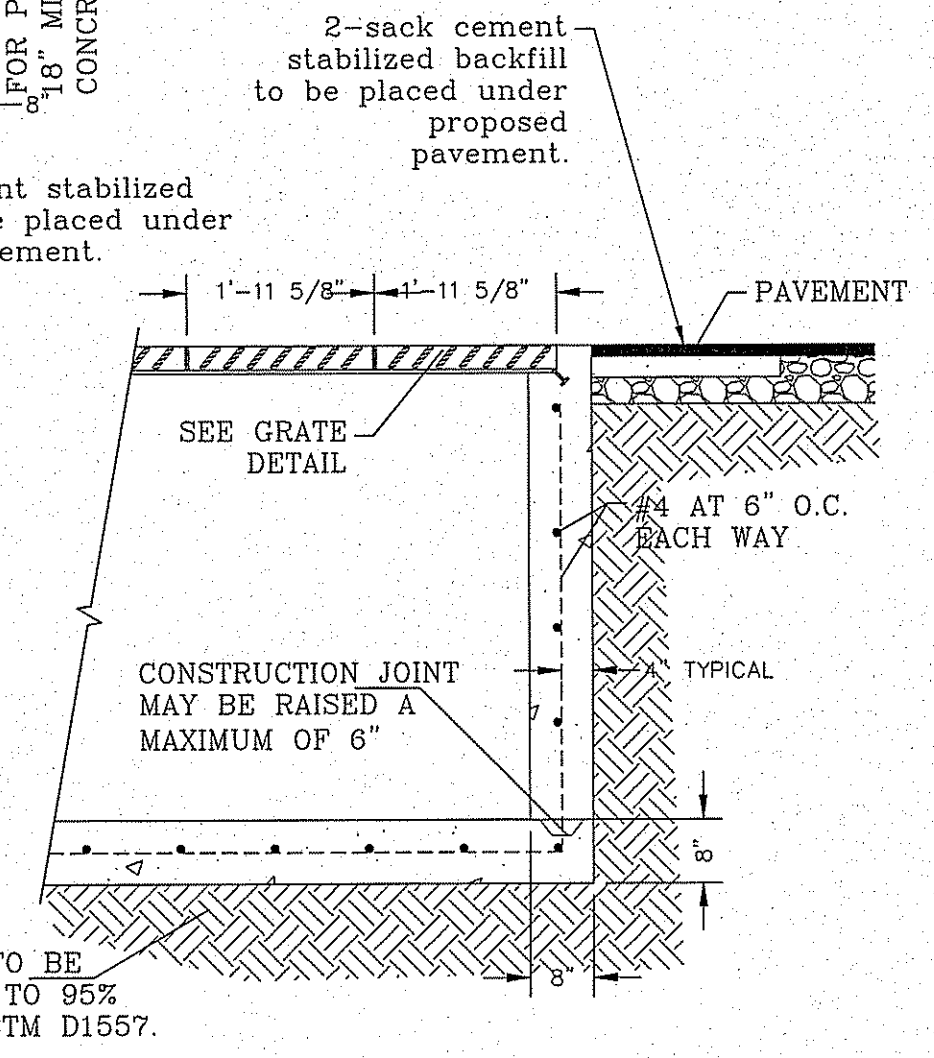
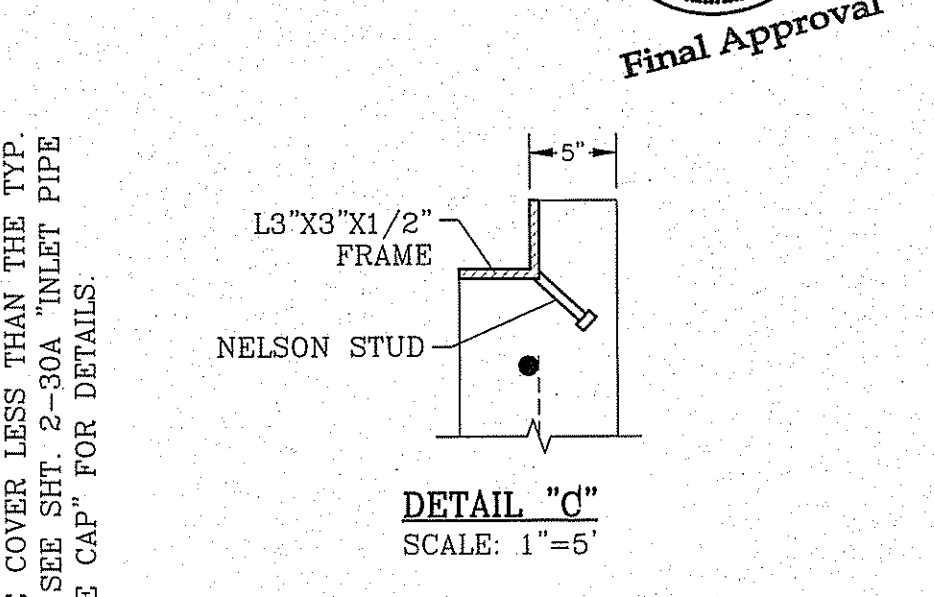
TYPE II INLET MODIFIED

ALL SUBSTITUTIONS OF STRUCTURAL STEE 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



SECTION A-A SCALE: 1"=2'

TYPE III INLET



SECTION B-B SCALE: 1"=2'

MESQUITE HILLS UNIT 8



BENCHMARK

BENCHMARK LOCATED AT THE CENTERLINE INTERSECTION OF COPPER TOWN DRIVE AND ROUTE HILLS DRIVE. ELEV.=4013.08

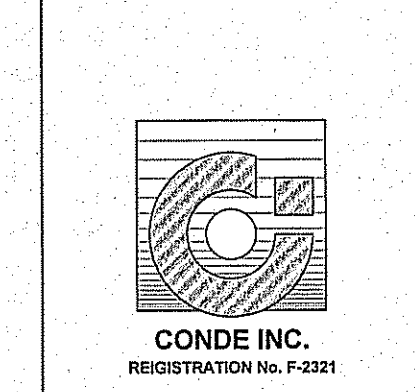
DATE	REVISIONS	BY

PROJECT NAME
MESQUITE HILLS UNIT 8

BEING PORTION OF TRACT 6C, SECTION 16 AND PORTION OF TRACTS 1D AND 1E, SECTION 17, BLOCK 60, TOWNSHIP 1, TEXAS AND PACIFIC RAILROAD CO. SURVEYS, CITY OF EL PASO, EL PASO COUNTY, TEXAS CONTAINING: 37.031 ACRES

SCALE as shown
DATE: FEB. 2016
DESIGN BY: Y.C.
INITIATED BY: E.J.
CHECKED BY: Y.C.
JOB NO.: 113-30

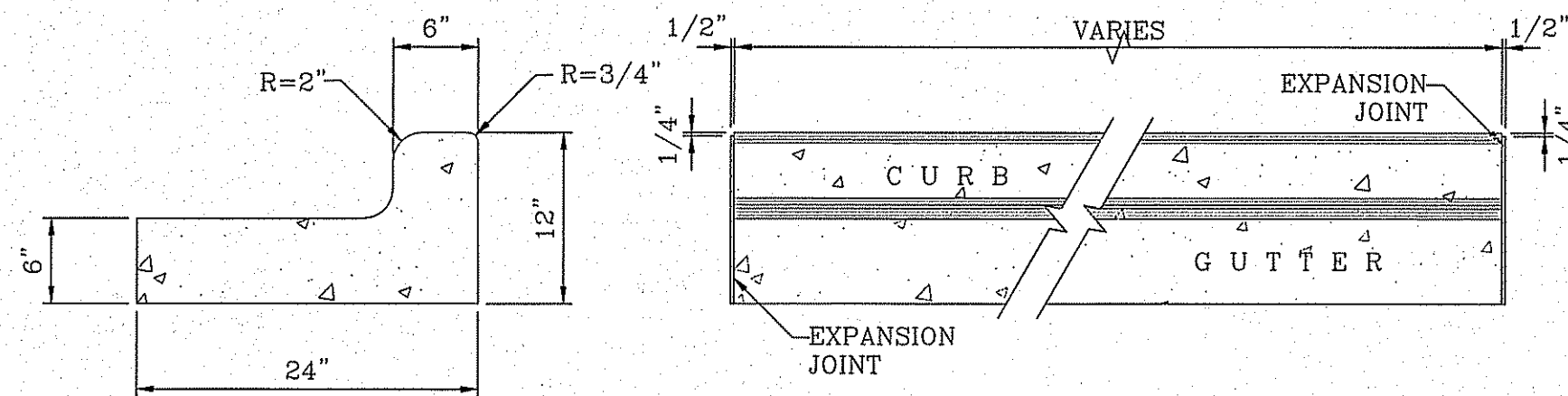
CONDE INC.
ENGINEERING / PLANNING
SURVEYING / GPS
6080 SURVEY DR. STE 100
EL PASO, TEXAS 79905
PHONE (915) 592-0283
FAX (915) 592-0286



SHEET TITLE
STORM DRAINAGE DETAILS

SHT 26 OF 30

FILE LOCATION S:\Subdivisions\MESQUITE HILLS 8\DWG\MESQUITE HILLS 8 - STD DETAILS PLOTTED ON Thursday, November 17, 2016 2:19:09 PM BY ESTEBAN JUAREZ



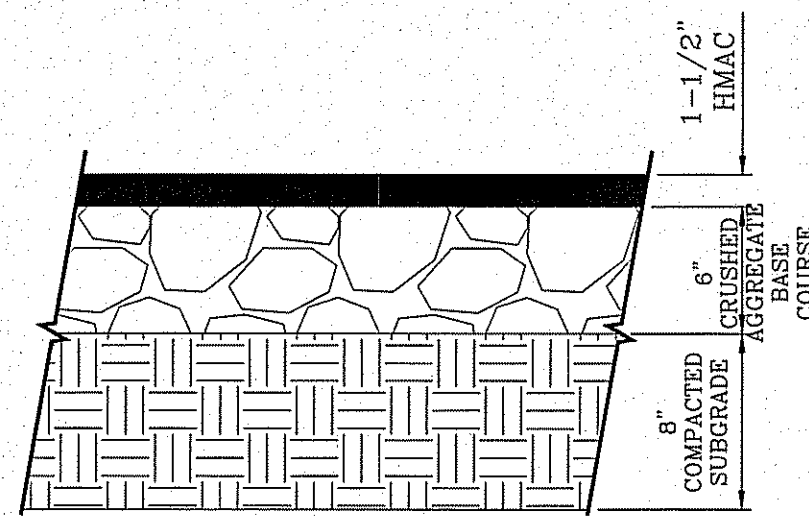
END SECTION

PLAN VIEW

NOTES:

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

CURB & GUTTER DETAIL
SCALE: 1"=1'



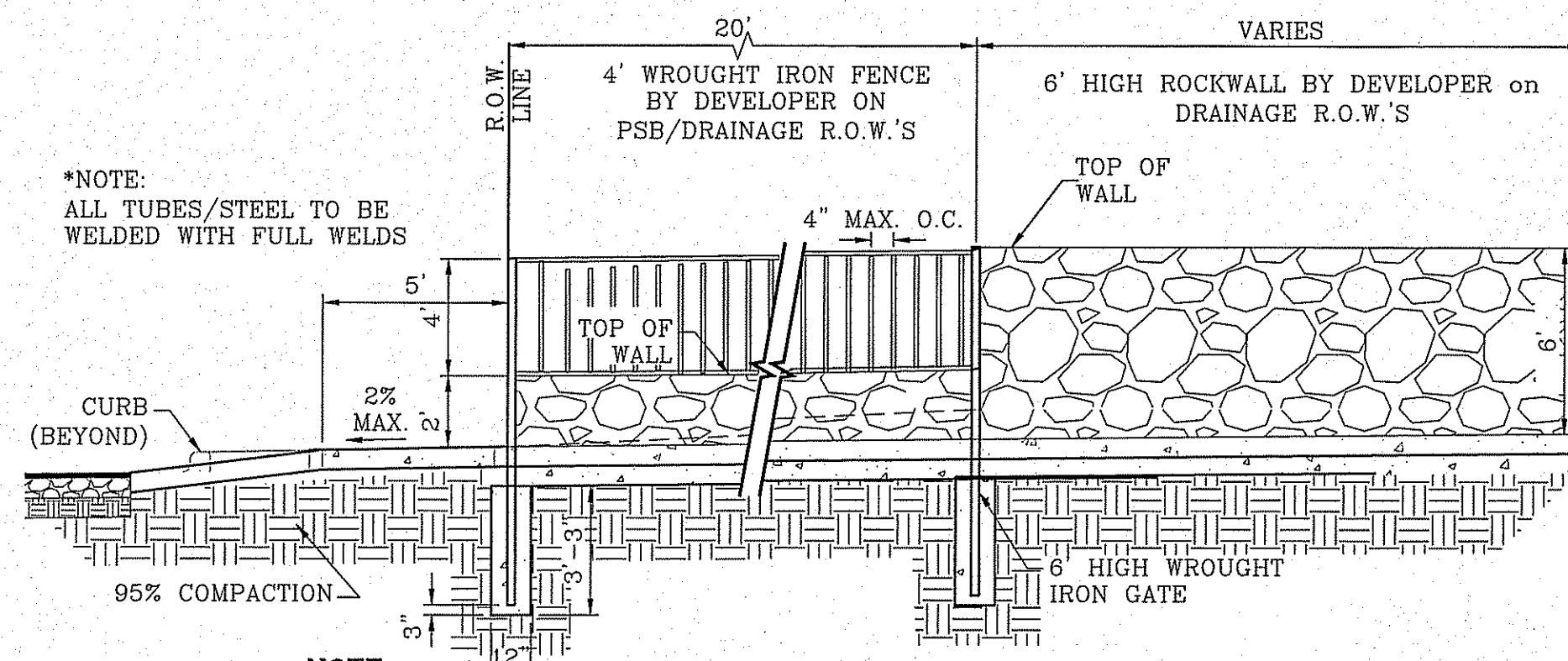
PAVEMENT SECTION DETAIL
SCALE: 1"=1'

PAVEMENT NOTES

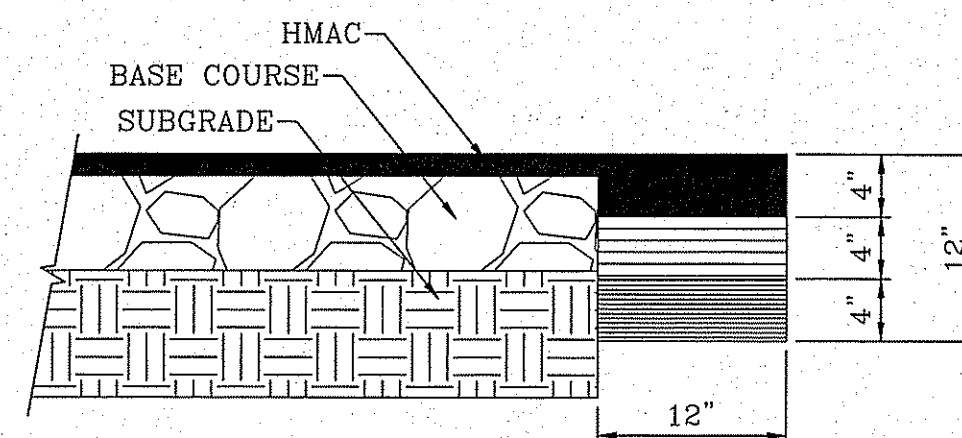
1. SUBGRADE TO BE COMPACTED TO 95% OF MAXIMUM DENSITY AS PER ASTM D1557.
2. BASE TO BE COMPACTED TO NOT LESS THAN 100% DENSITY IN ACCORDANCE WITH ASTM D1557, TYPE A, GRADE 1 OR 2.
3. BITUMINOUS MATERIAL SHALL CONFORM TO AC-10 OR AC-20, TYPE "C" IN ACCORDANCE WITH ASTM D3318.
4. PRIME COAT TO BE 0.25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

TRENCHING

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



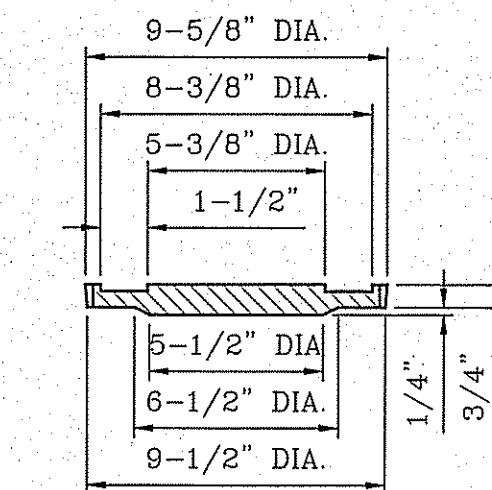
ROCKWALL/IRON FENCE FOR DRAINAGE R.O.W.'s
SCALE: 1"=4'



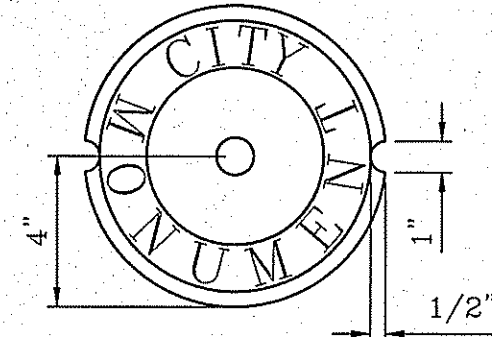
PAVEMENT TERMINUS
SCALE: 1"=1'

NOTE:

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



COVER
SCALE: 1"=6"



COUNTERSUNK DETAIL
SCALE: 1"=3"

SIZE AND CONSTRUCTION:

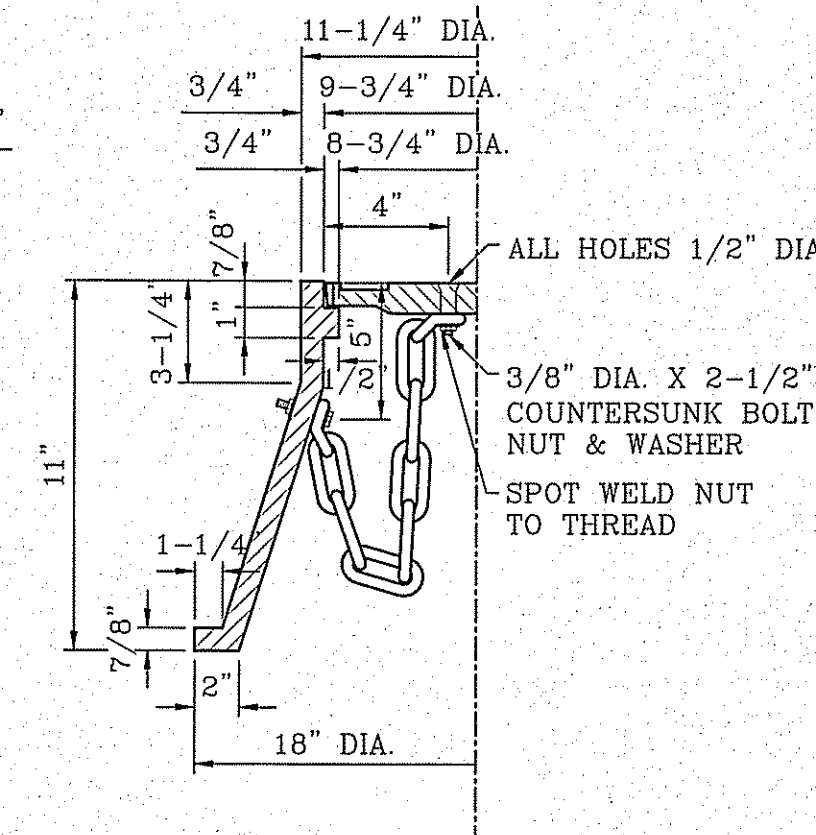
THE STANDARD CITY MONUMENT SHALL BE POURED-IN-PLACE CONCRETE CONE. EIGHT (8) INCHES MINIMUM DIAMETER AT THE TOP, EIGHTEEN (18) INCHES MINIMUM DIAMETER AT THE BOTTOM, THIRTY-SIX (36) INCHES MINIMUM IN DEPTH WITH THE MONUMENT CAP IN PLACE ON TOP.

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

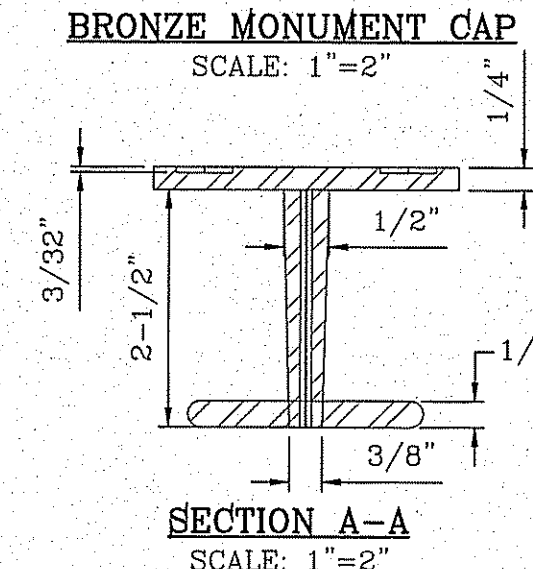
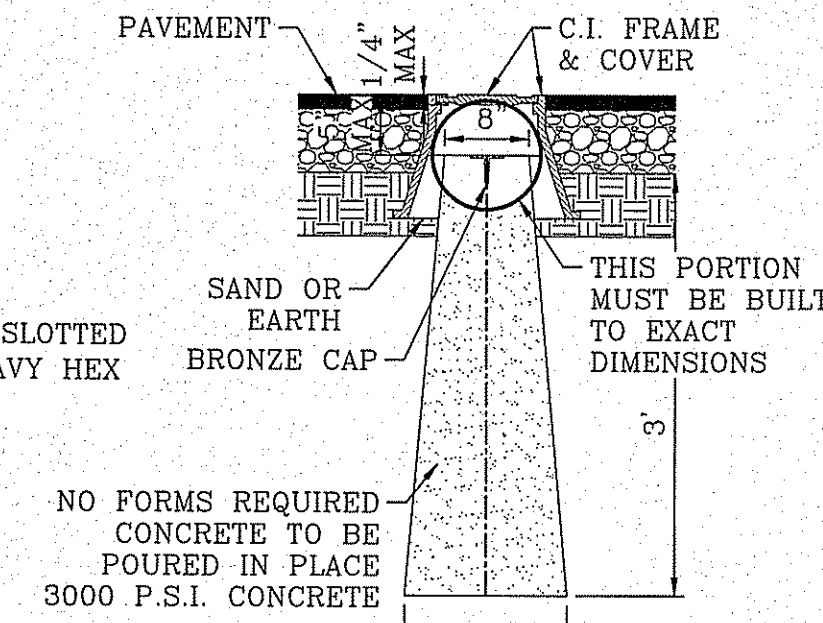
NUMBER AND LOCATIONS:

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

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



CITY MONUMENT DETAIL
SCALE: 1"=2"



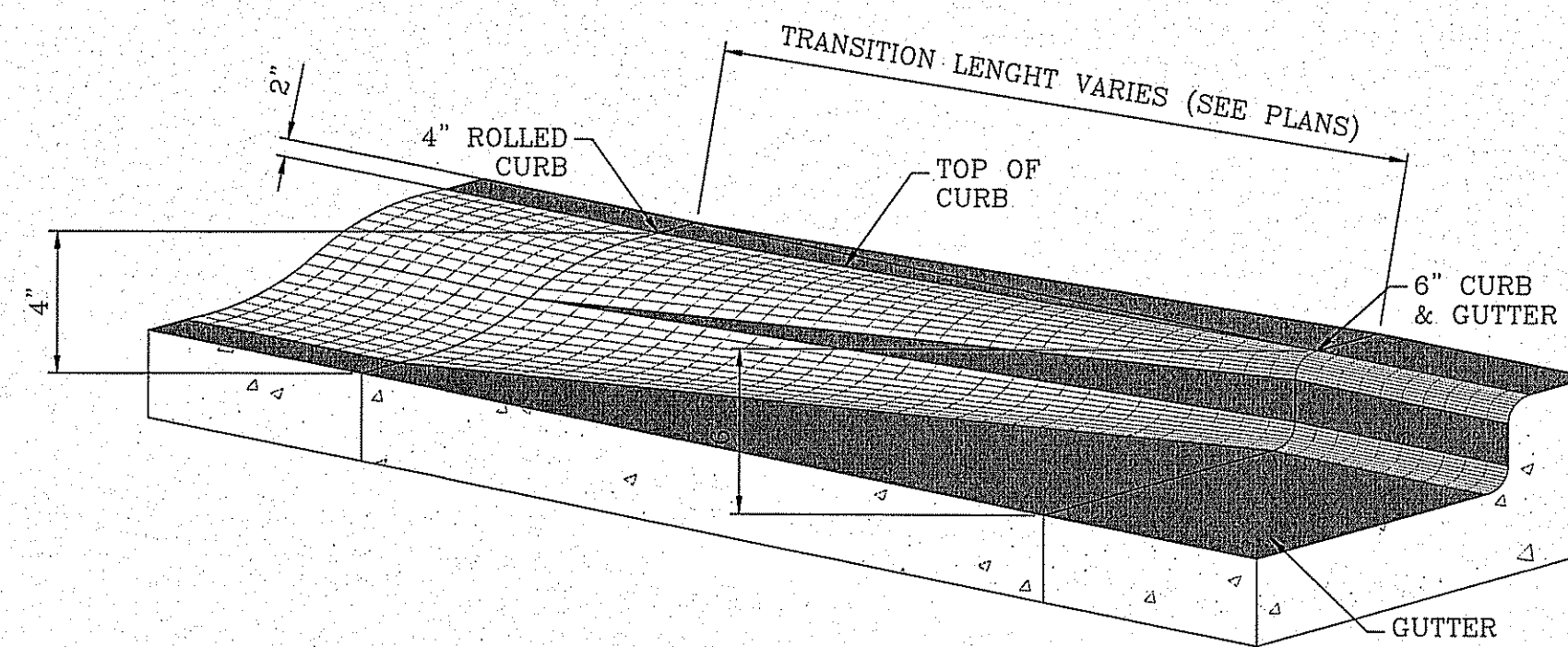
SECTION A-A
SCALE: 1"=2"

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

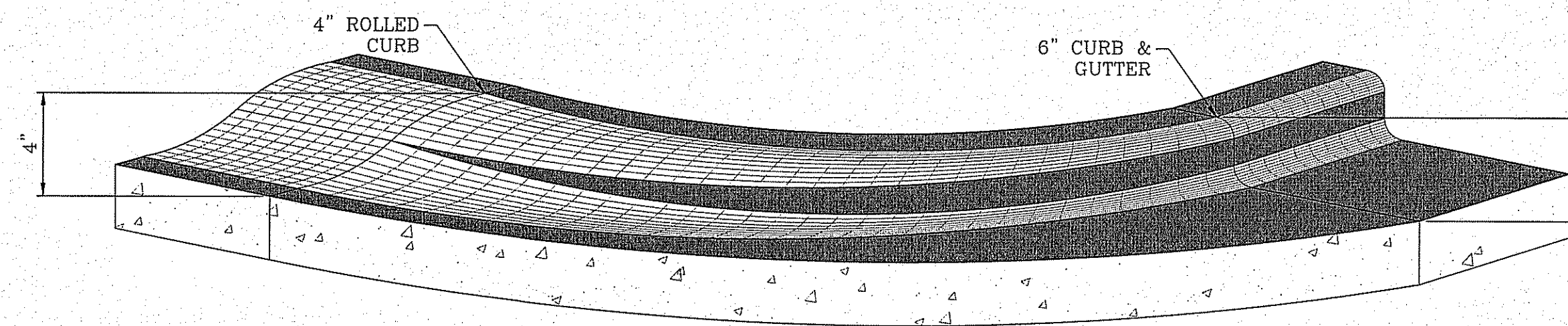
AT LEAST ONE (1) MONUMENT SHALL BE PLACED ON EACH HORIZONTAL CURVE. TWO SHALL BE PLACED IF THE POINT OF INTERSECTION (P.I.) OF THE TANGENTS LEADING INTO THE CURVE FALLS OUTSIDE OF CITY RIGHT-OF-WAY. MONUMENTS SHALL BE INSTALLED SO THAT ALL FRONT PROPERTY CORNERS OF ALL LOTS IN THE SUBDIVISION ARE WITHIN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

HEIGHT OF LETTERS = 7/16"
WIDTH OF LETTER BODY = 3/16" RADI
FOR POSITION OF LETTERING = 13/16"
AND 1-1/4"

EMBOSS STAR, RING AND LETTERS TO HEIGHT OF 3/32"



ROLLED CURB TO CURB & GUTTER TRANSITION
SCALE: 1"=1'



CURB TRANSITION AT RETURNS
SCALE: 1"=1'

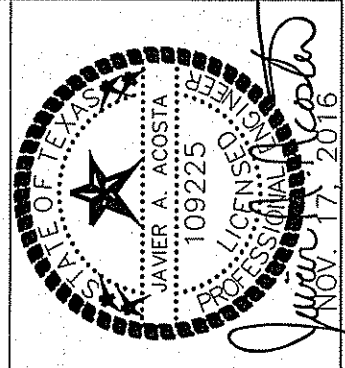


BENCHMARK	
BENCHMARK LOCATED AT THE CENTERLINE INTERSECTION OF COPPER TOWN DRIVE AND MESQUITE HILLS DRIVE. ELEV.=4015.08	
DATE	BY
07/06/16	E.J.
REVISIONS	
AS PER CITY REVISIONS COMMENTS	

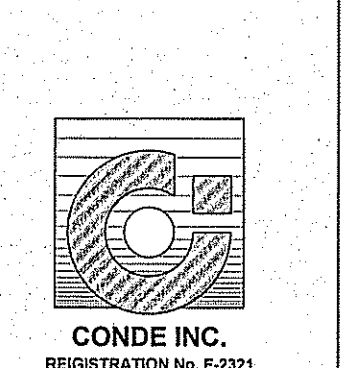
PROJECT NAME
MESQUITE HILLS UNIT 8

BRING PORTION OF TRACT 6C, SECTION 16 AND PORTION OF TRACTS 1D AND 1E, SECTION 17, BLOCK 80, TOWNSHIP 1, TEXAS AND PACIFIC RAILROAD CO. SURVEYS, CITY OF EL PASO, EL PASO COUNTY, TEXAS CONTAINING: 37.031 ACRES

SCALE	as shown
HORIZ.	as shown
VERT.	as shown
DATE	FEB. 2016
DESIGN BY	Y.C.
INITIATED BY	E.J.
CHECKED BY	Y.C.
JOB NO.	113-30

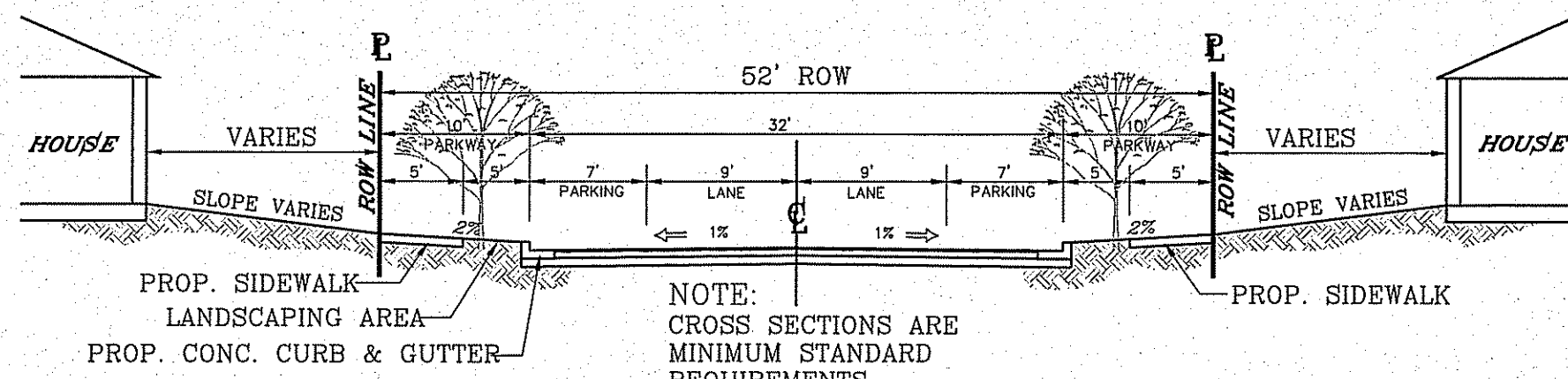


CONDE INC.
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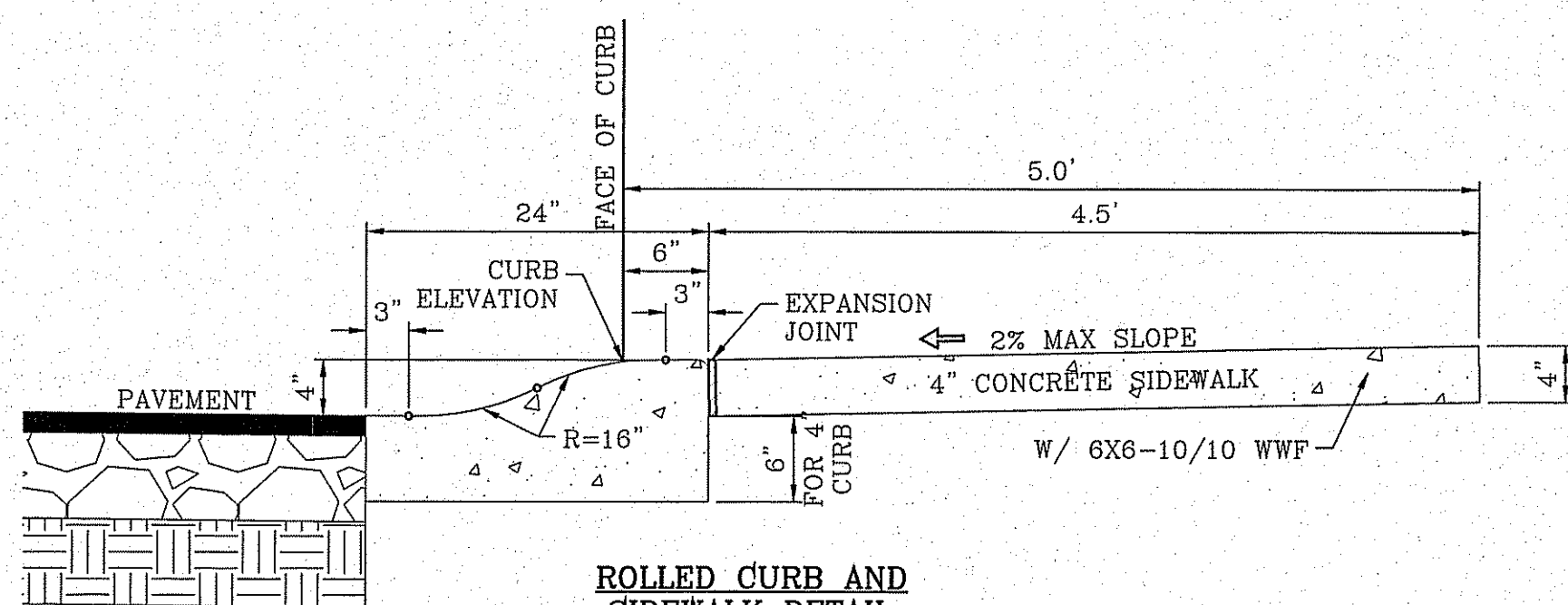


SHEET TITLE
STANDARD DETAILS

FILE LOCATION S:\Subdivisions\MESQUITE HILLS 8\DWG\MESQUITE HILLS 8 - STD DETAILS PLOTTED ON Thursday, November 17, 2016 2:19:20 PM BY ESTEBAN JUAREZ

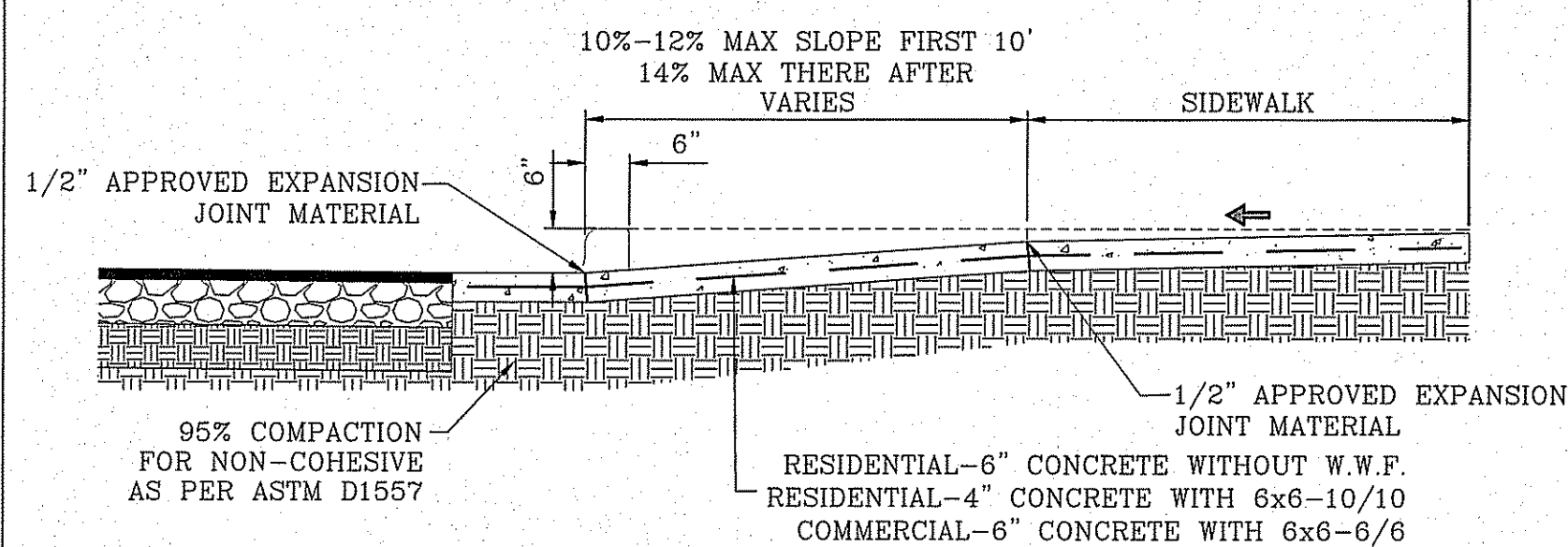


52' LOCAL RESIDENTIAL 3
SCALE: 1"=10'

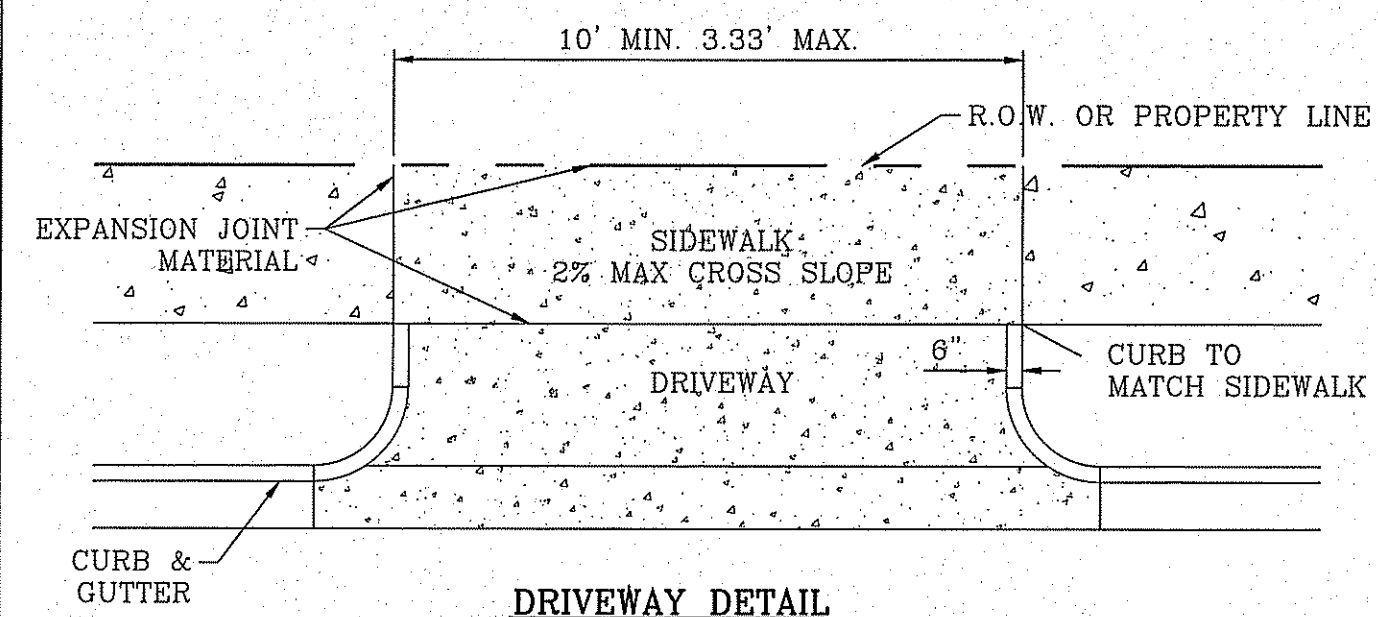


ROLLED CURB AND SIDEWALK DETAIL
SCALE: 1"=1'

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



RESIDENTIAL & COMMERCIAL DRIVEWAY SECTION
SCALE: 1"=2'



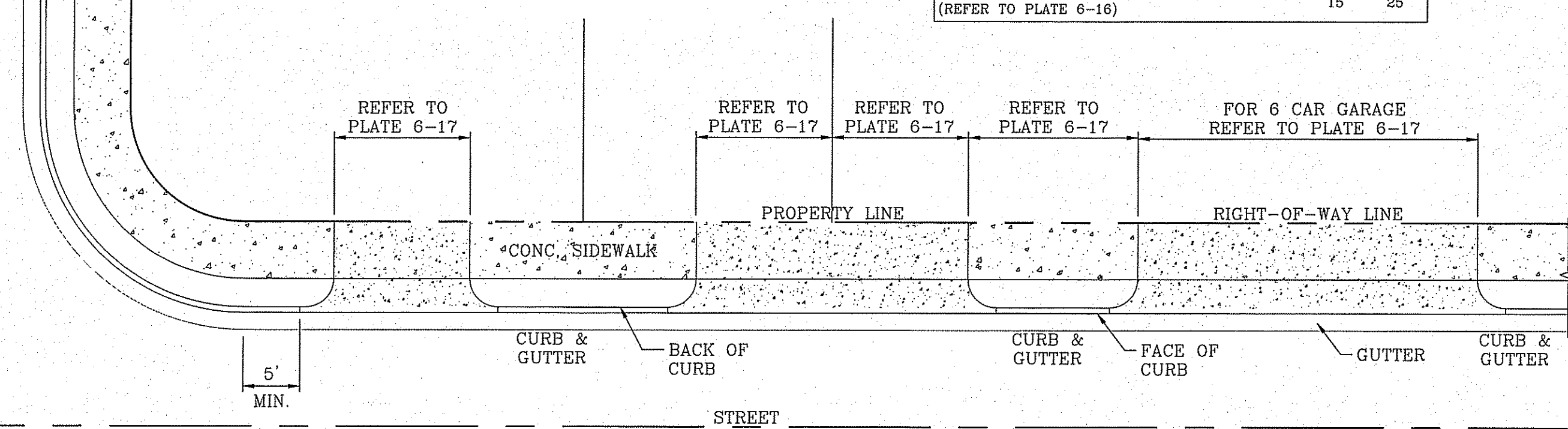
DRIVEWAY DETAIL
SCALE: 1"=6'

NOTE:

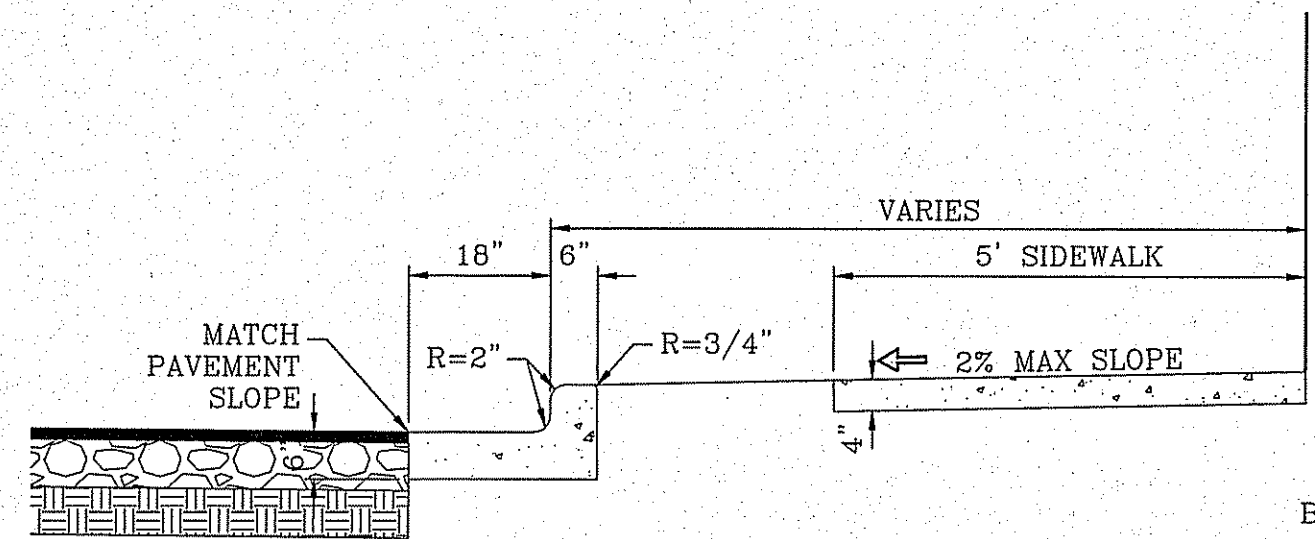
A MINIMUM PARKING SPACE LENGTH OF TWENTY (20) FEET SHALL BE PROVIDED MEASURED FROM THE PROPERTY LINE TO A GARAGE, CARPORT OR PARKING SPACE.

PLATE 6-17

DRIVEWAY WIDTH	MIN	MAX
COMMERCIAL/INDUSTRIAL	24'	35'
RESIDENTIAL (SINGLE FAMILY 60' LOTS)	10'	20'
LESS THAN 60' LOTS, DUPLEX, AND TOWNHOMES (REFER TO PLATE 6-16)	15'	25'



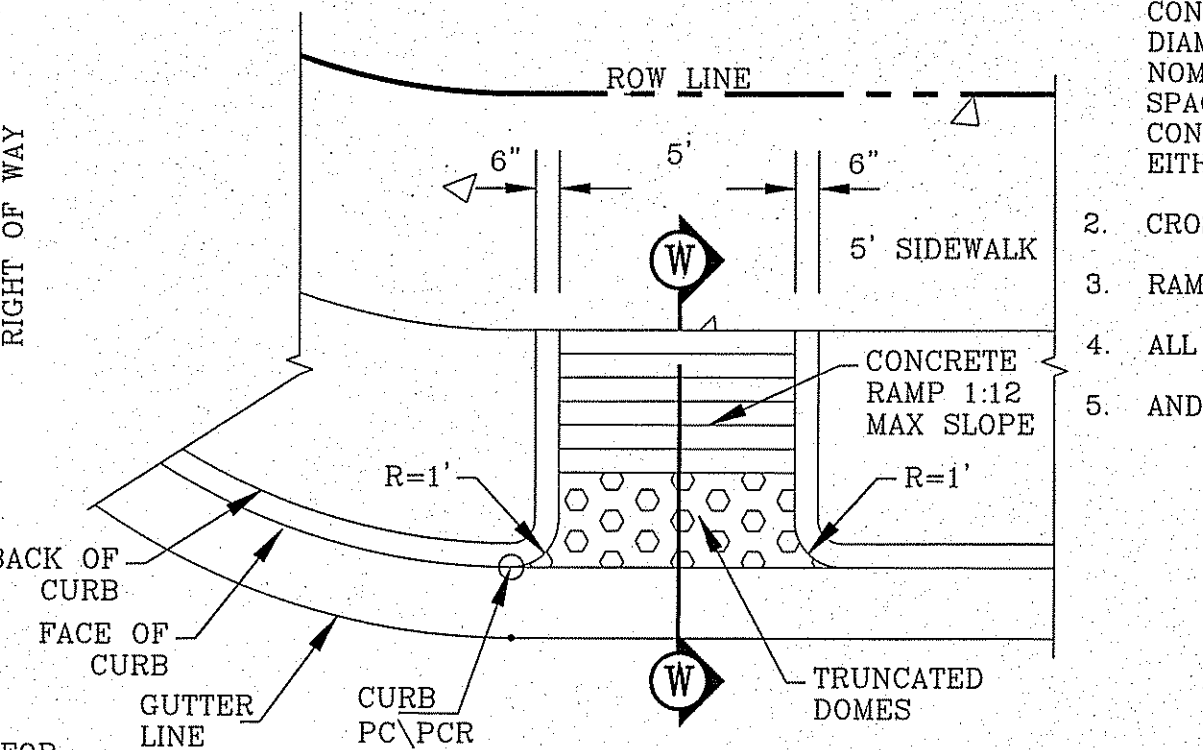
TYPICAL RESIDENTIAL DRIVEWAY WITH CURB & GUTTER
SCALE: 1"=10'



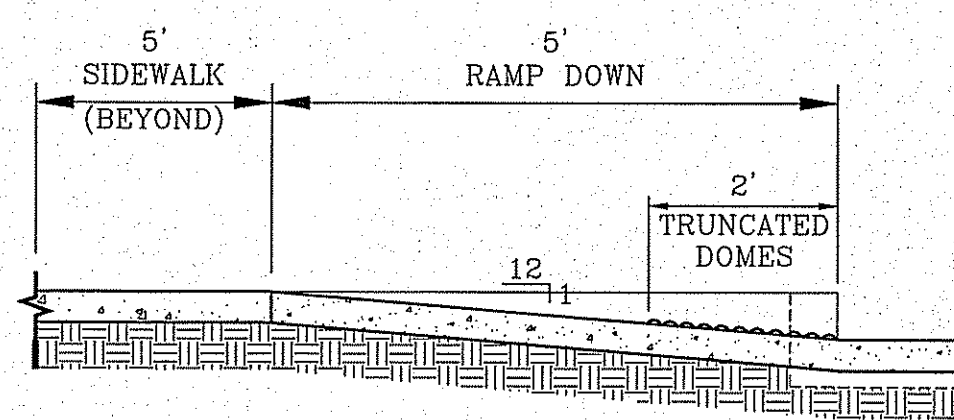
NOTES:

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

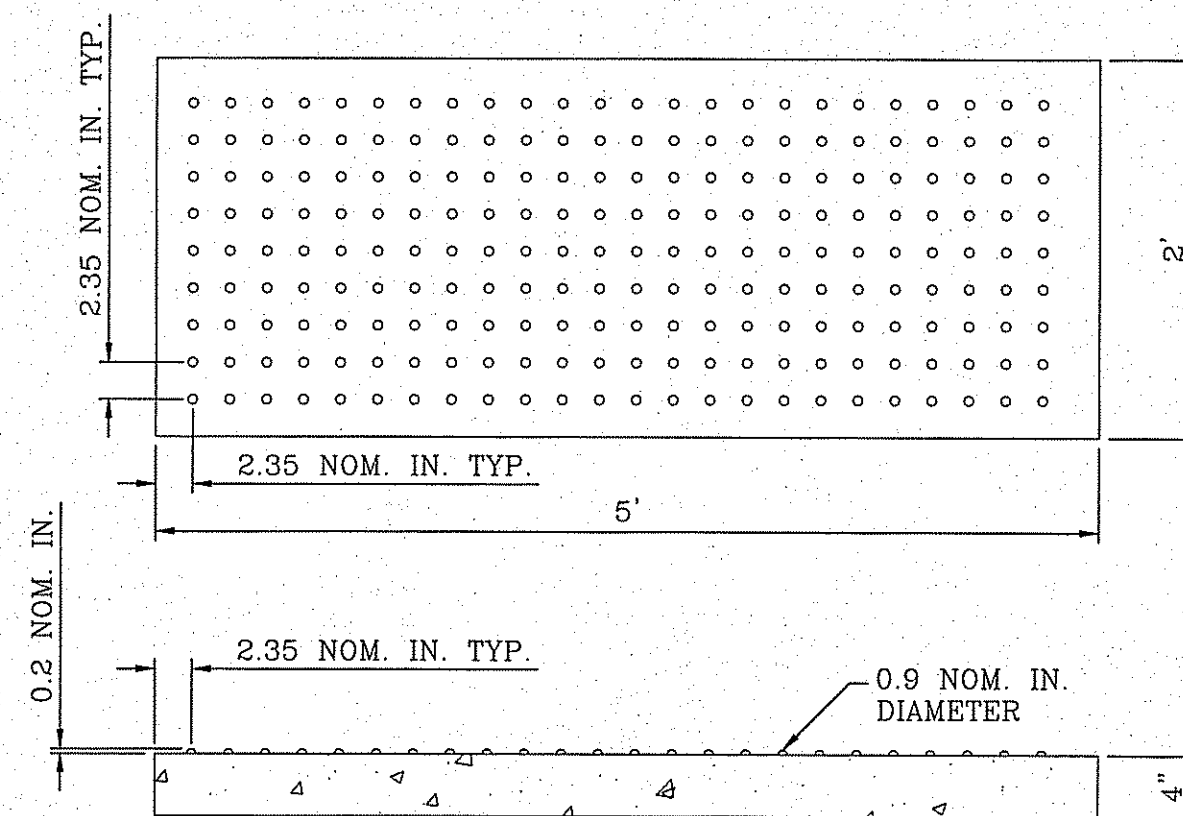
CURB & GUTTER AND SIDEWALK DETAIL
SCALE: 1"=2'



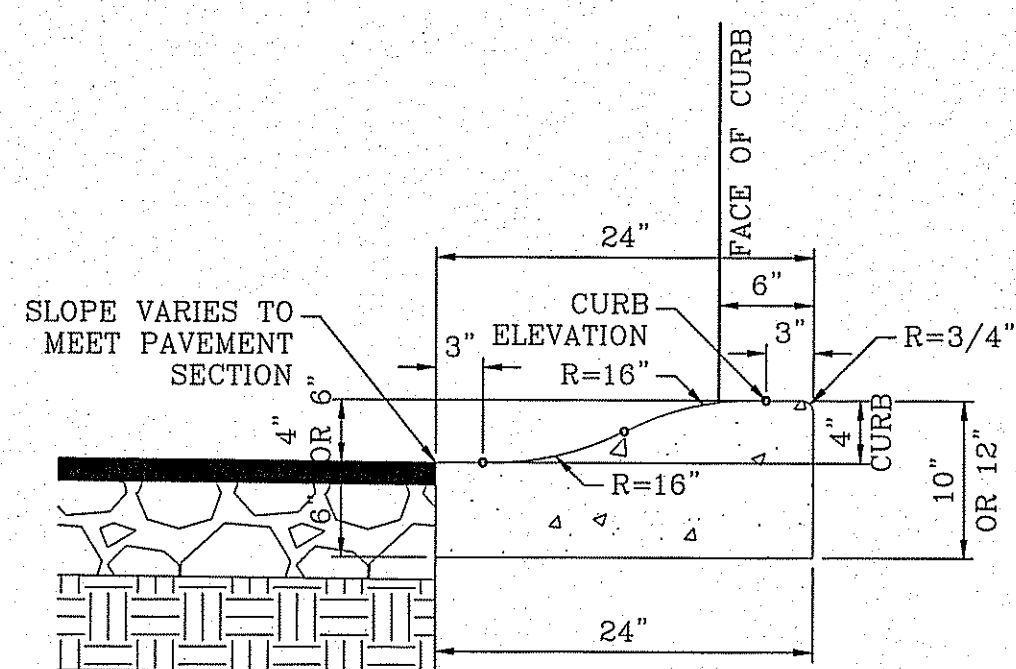
DIRECTIONAL RAMP
SCALE: 1"=4'



DIRECTIONAL RAMP SECTION W
SCALE: 1"=2'



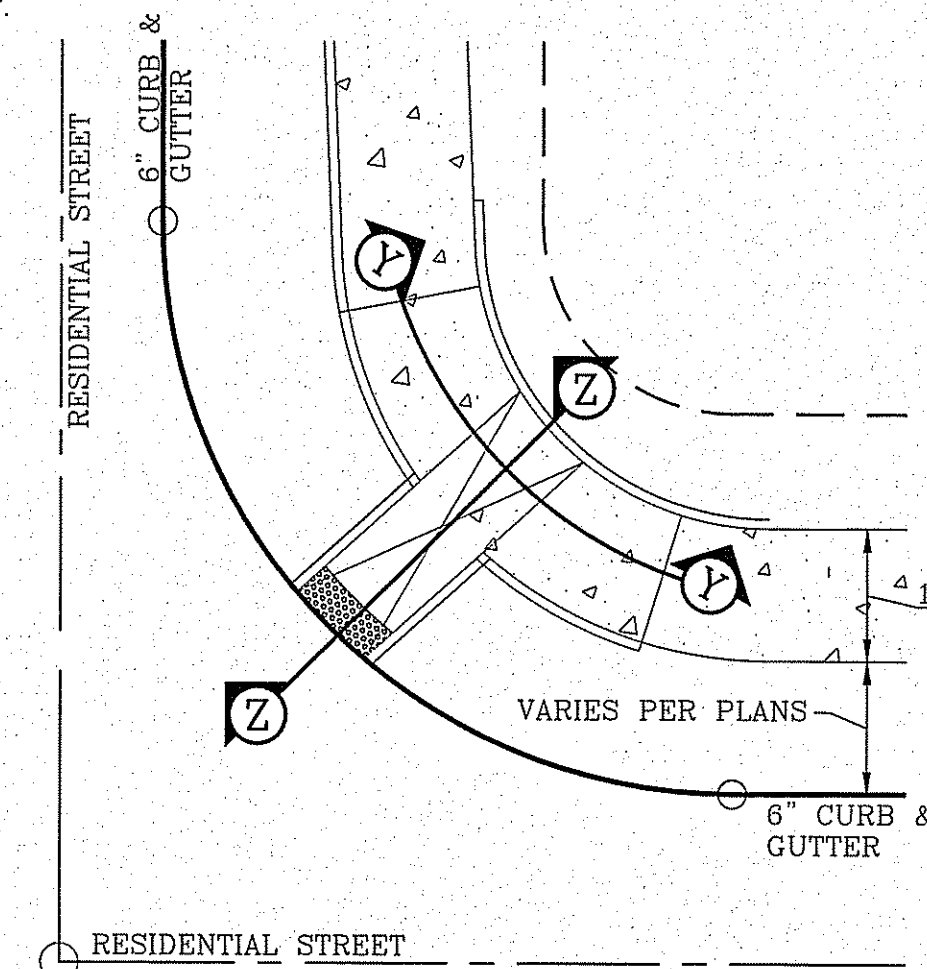
TRUNCATED TILES
SCALE: 1"=1'



ROLLED CURB DETAIL
SCALE: 1"=1'

NOTES:

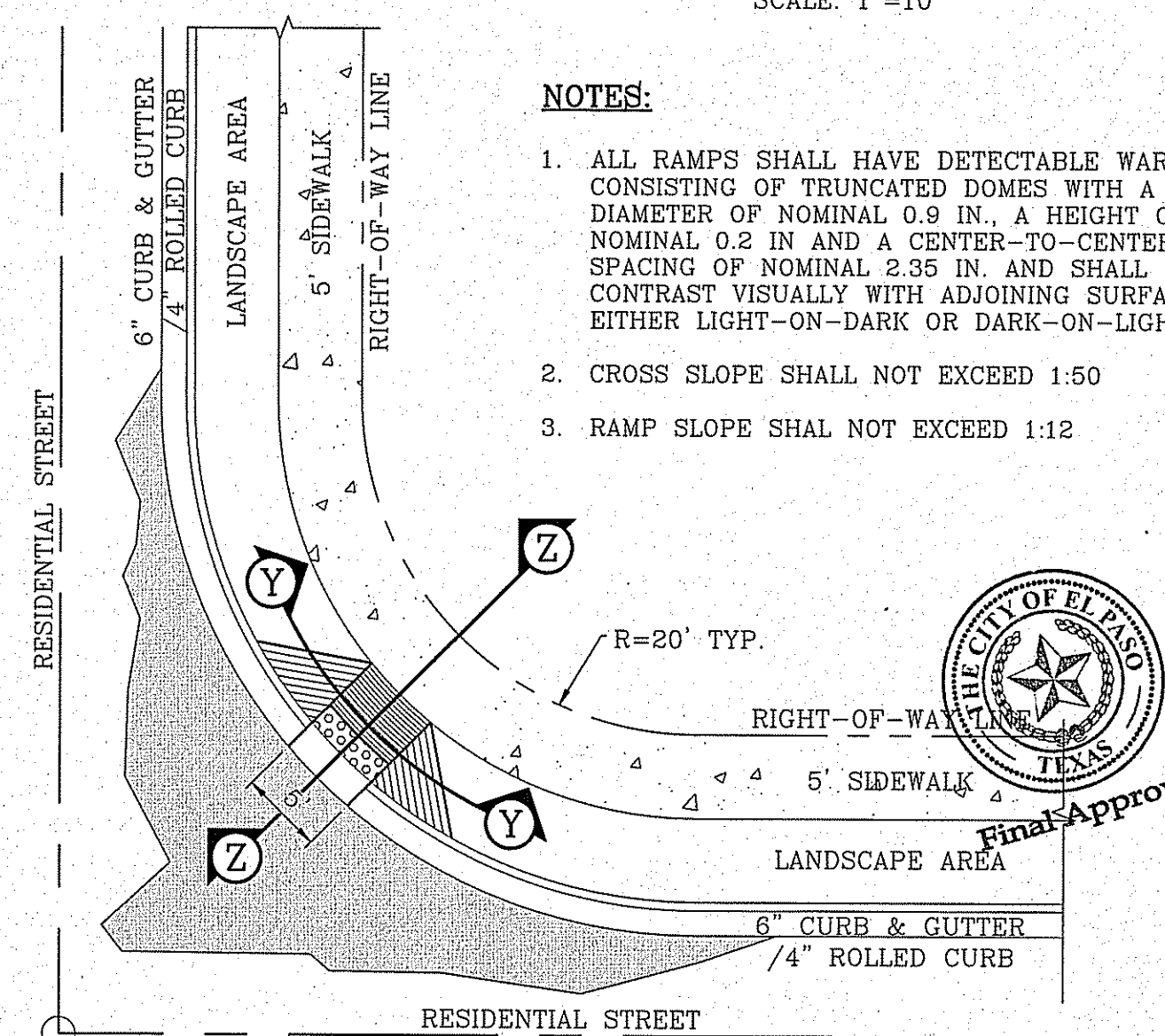
1. ALL RAMPS SHALL HAVE DETECTABLE WARNINGS CONSISTING OF TRUNCATED DOMES WITH A DIAMETER OF NOMINAL 0.9 IN., A HEIGHT OF NOMINAL 0.2 IN. AND A CENTER-TO-CENTER SPACING OF NOMINAL 2.35 IN. AND SHALL CONTRAST VISUALLY WITH ADJOINING SURFACES, EITHER LIGHT-ON-DARK OR DARK-ON-LIGHT.
2. CROSS SLOPE SHALL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



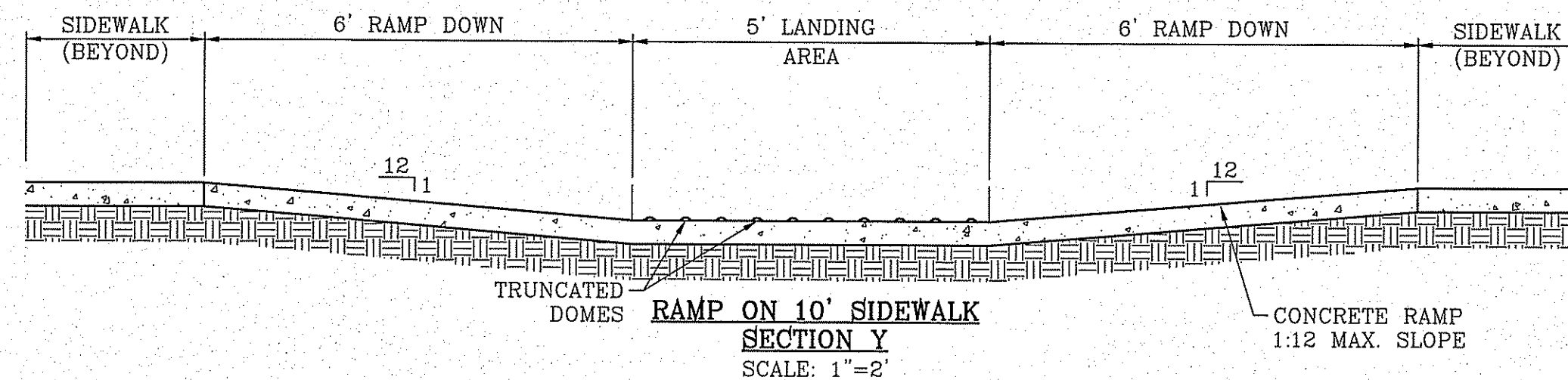
WHEELCHAIR RAMP IN FRONT OF PARK
SCALE: 1"=10'

NOTES:

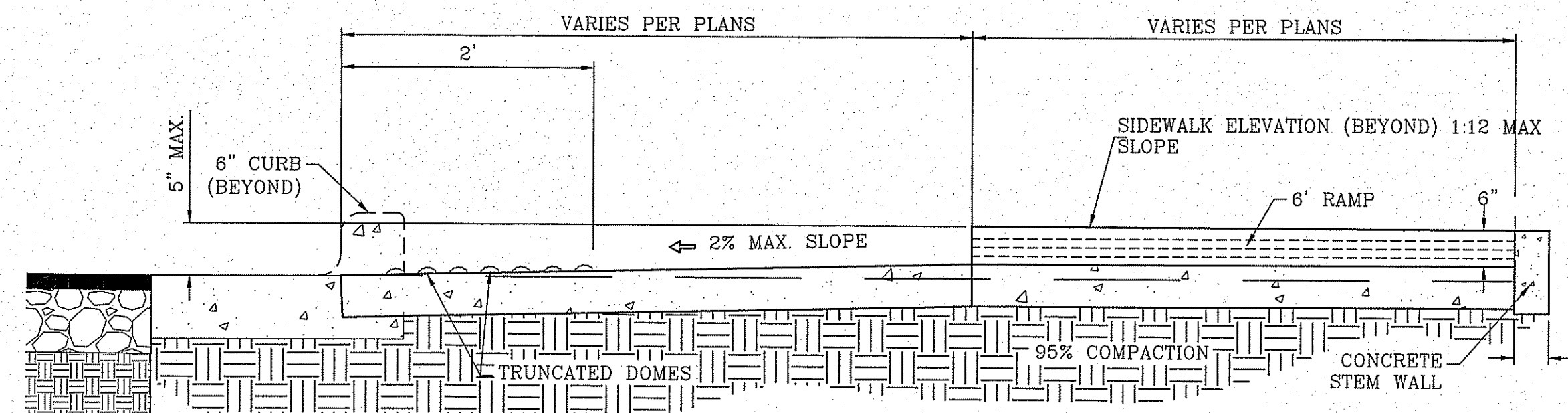
1. ALL RAMPS SHALL HAVE DETECTABLE WARNINGS CONSISTING OF TRUNCATED DOMES WITH A DIAMETER OF NOMINAL 0.9 IN., A HEIGHT OF NOMINAL 0.2 IN. AND A CENTER-TO-CENTER SPACING OF NOMINAL 2.35 IN. AND SHALL CONTRAST VISUALLY WITH ADJOINING SURFACES, EITHER LIGHT-ON-DARK OR DARK-ON-LIGHT.
2. CROSS SLOPE SHALL NOT EXCEED 1:50
3. RAMP SLOPE SHALL NOT EXCEED 1:12



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



RAMP ON 10' SIDEWALK SECTION Y
SCALE: 1"=2'



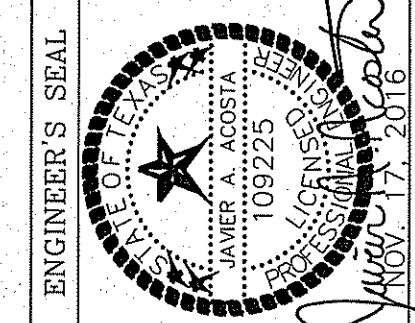
TYPICAL WHEELCHAIR RAMP AT 6" CURB & GUTTER SECTION Z
SCALE: 1"=1'

BENCHMARK LOCATED AT THE CENTERLINE INTERSECTION OF COPPER TOWN DRIVE AND MESQUITE HILLS DRIVE. ELEV. = 4013.08

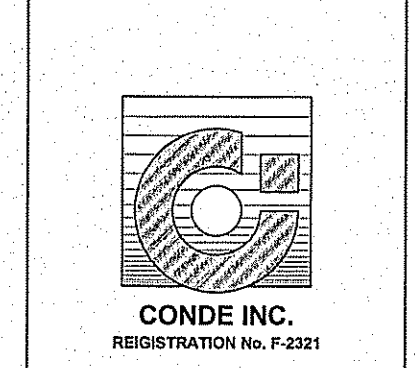
DATE	REVISIONS	BY

MESQUITE HILLS UNIT 8
BEING PORTION OF TRACT 6C, SECTION 16 AND PORTION OF TRACTS 1D AND 1E, SECTION 17, BLOCK 80, TOWNSHIP 1, TEXAS AND PACIFIC RAILROAD CO. SURVEYS, CITY OF EL PASO, EL PASO COUNTY, TEXAS CONTAINING: 37.031 ACRES

PROJECT NAME
SCALE
HORIZ: as shown
VERT: FEB. 2016
DATE: FEB. 2016
DESIGN BY: Y.C.
INITIATED BY: E.J.
CHECKED BY: Y.C.
JOB NO.: 113-30

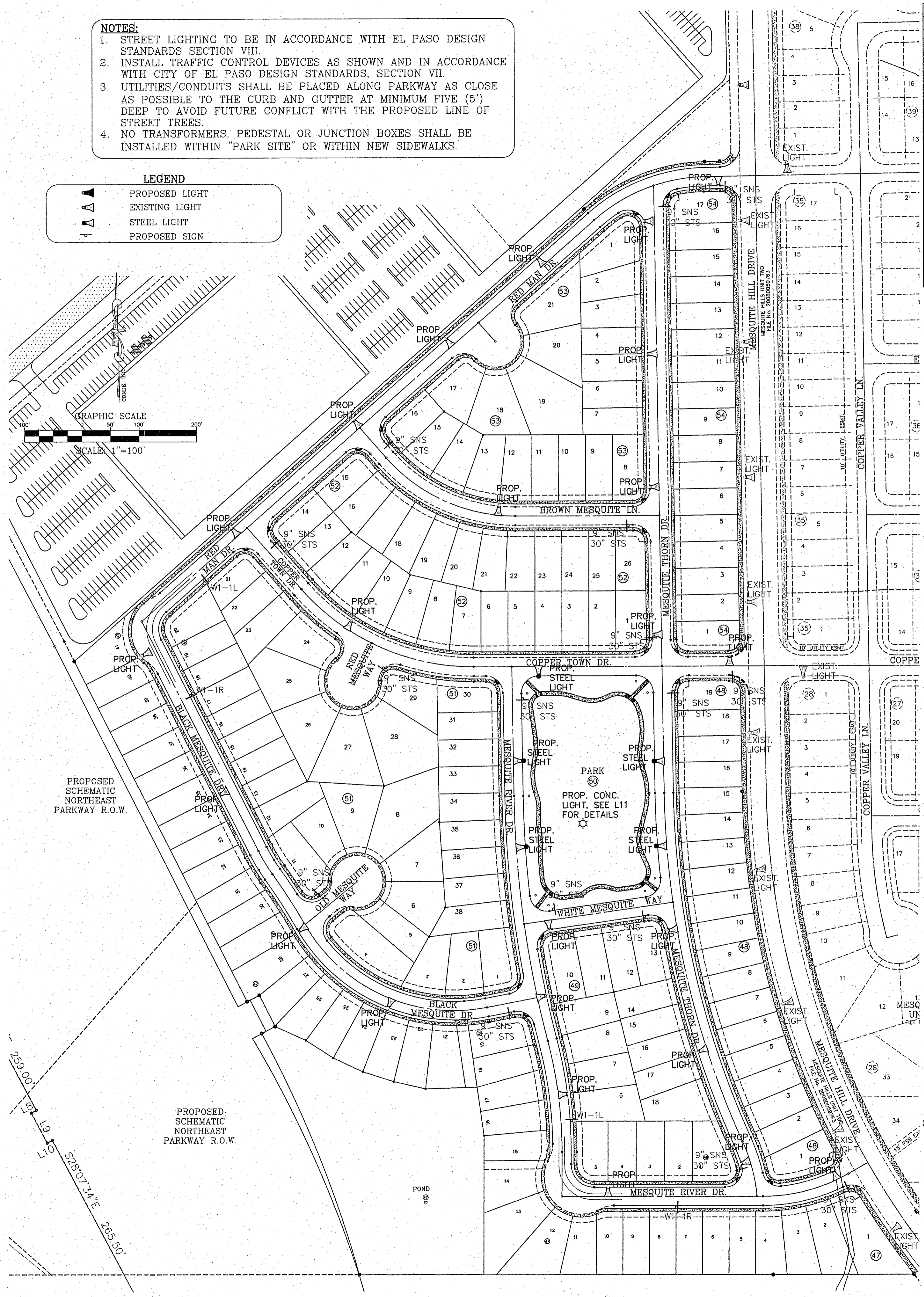
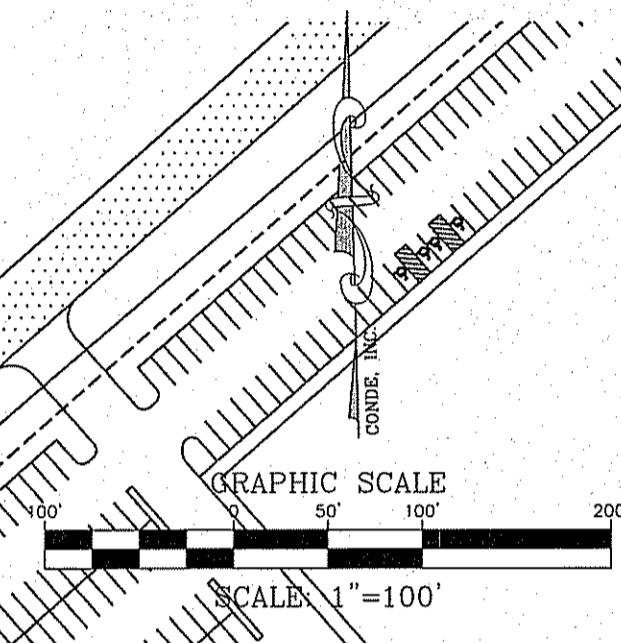
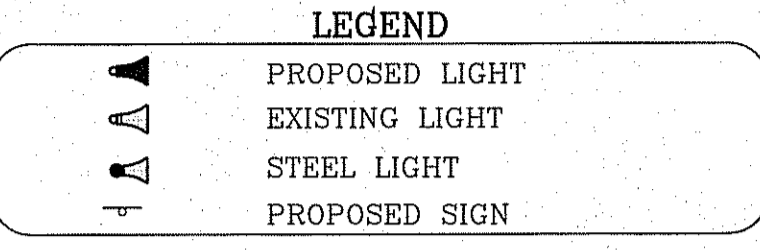


CONDE INC.
ENGINEERING / PLANNING
SURVEYING / GPS
6080 SURETY DR. STE 100
EL PASO, TEXAS 79905
PHONE: (915) 592-0283
FAX: (915) 592-0286



FILE LOCATION S:\Subdivisions\MESQUITE HILLS 8\DWG\MESQUITE HILLS 8 - ILLUMINATION - TRAFFIC PLOTTED ON Thursday, November 17, 2016 2:19:52 PM BY ESTEBAN JUAREZ

- NOTES:**
- STREET LIGHTING TO BE IN ACCORDANCE WITH EL PASO DESIGN STANDARDS SECTION VIII.
 - INSTALL TRAFFIC CONTROL DEVICES AS SHOWN AND IN ACCORDANCE WITH CITY OF EL PASO DESIGN STANDARDS, SECTION VII.
 - UTILITIES/CONDUITS SHALL BE PLACED ALONG PARKWAY AS CLOSE AS POSSIBLE TO THE CURB AND GUTTER AT MINIMUM FIVE (5') DEEP TO AVOID FUTURE CONFLICT WITH THE PROPOSED LINE OF STREET TREES.
 - NO TRANSFORMERS, PEDESTAL OR JUNCTION BOXES SHALL BE INSTALLED WITHIN "PARK SITE" OR WITHIN NEW SIDEWALKS.



WOOD POLE TABLE

ITEM No.	DESCRIPTION	STOCK DSO No.	QTY.	CU CODE	MACRO CODE
1	PHOTOCELL, 240 V-SEE NOTE 1	21-225	1		
2	HPS LAMP 100 W	21-085	1		
3	LUMINAIRE, 100 W HPS	21-335	1	LCOBRAHD	
4	SLEEVES, #12-10	05-140	2		
5	MAST ARM, 6' x 1 1/4"	21-200	1	LBRKT1*6	LCOBRAUG
	MACHINE BOLT, 5/8" x 12"	02-470	1		
	SQUARE GALV. WASHER, 2 1/4"x2 1/4"	02-780	1	LMB5/812	
	COIL SPRING WASHER, 5/8"	02-786	1		
	LOCK NUT, 5/8"	02-706	1		
7	SERVICE ENTRANCE CAP FOR 1" PVC CONDUIT	17-281	1	LSVCCAP1	
8	LAG BOLT, 1/2" x3"	02-343	2	LLAG12*3	
9	CABLE #10, 2 CONDUCTOR, 600V, UF	13-600	8'	L2C#10S	
10	COPPER CBL, #12, 19 SOLID, 600V BLUE	13-702	60'	LC#12CU	
11	SCHEDULE 80 1" PVC CONDUIT	17-280	30'	LSCH801	
12	PIPE STRAP FOR 1" PVC CONDUIT 2 HOLE	17-283	7	LPVCSTRP	
13	NAIL, STAINLESS STEEL SCREW 2.5"	14-427	25#	LNAL14*2	
14	POLE, 35' CLASS 4	09-035	1	L354UG	
15	1" PVC 90 DEGREE ELBOW	17-297	1	LEL901	
16	1" PVC CONDUIT	17-299	AS REQ'D	LPVC1	
17	1" PVC 45 DEGREE ELBOW	17-298	1	LEL451	
18	1" PVC COUPLING	17-296	1	LCPLG1	

STEEL POLE TABLE

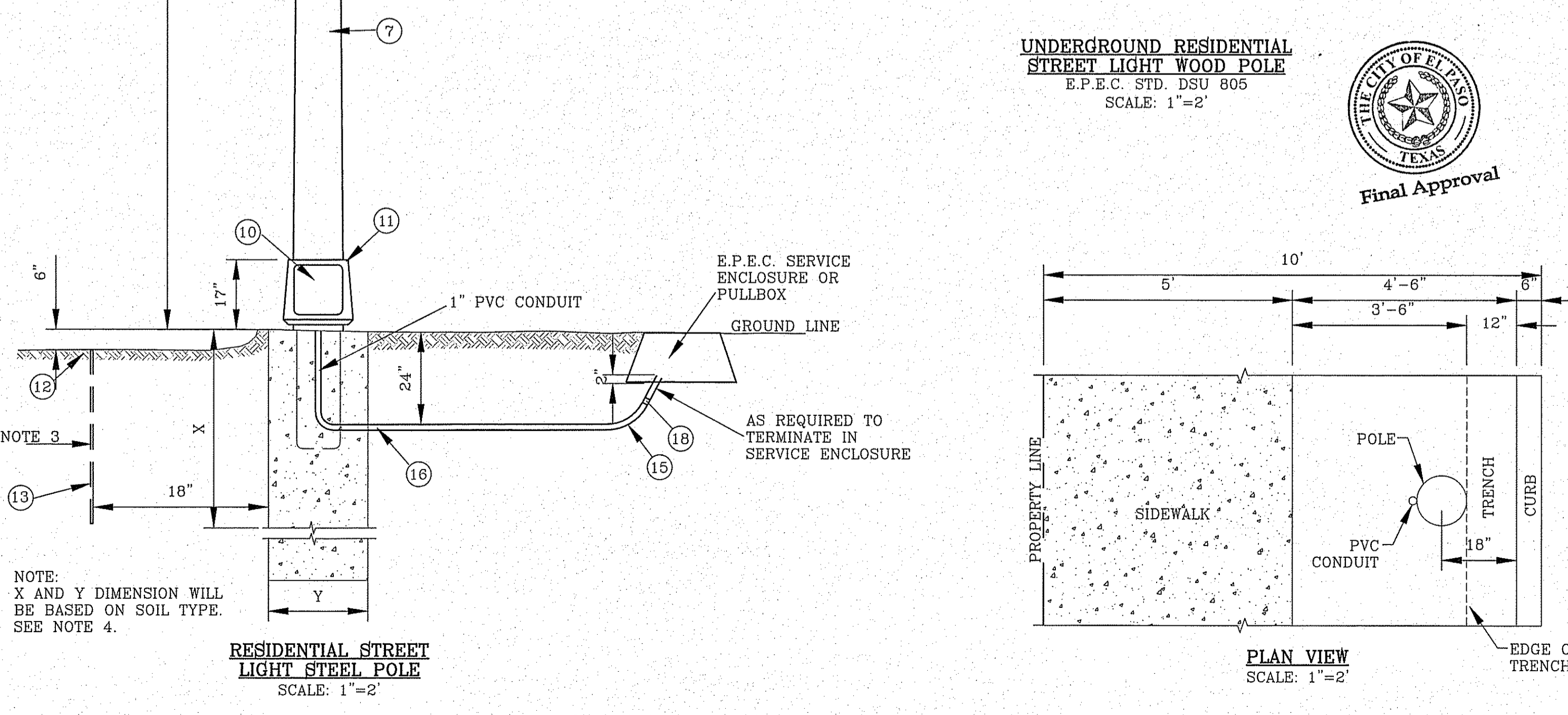
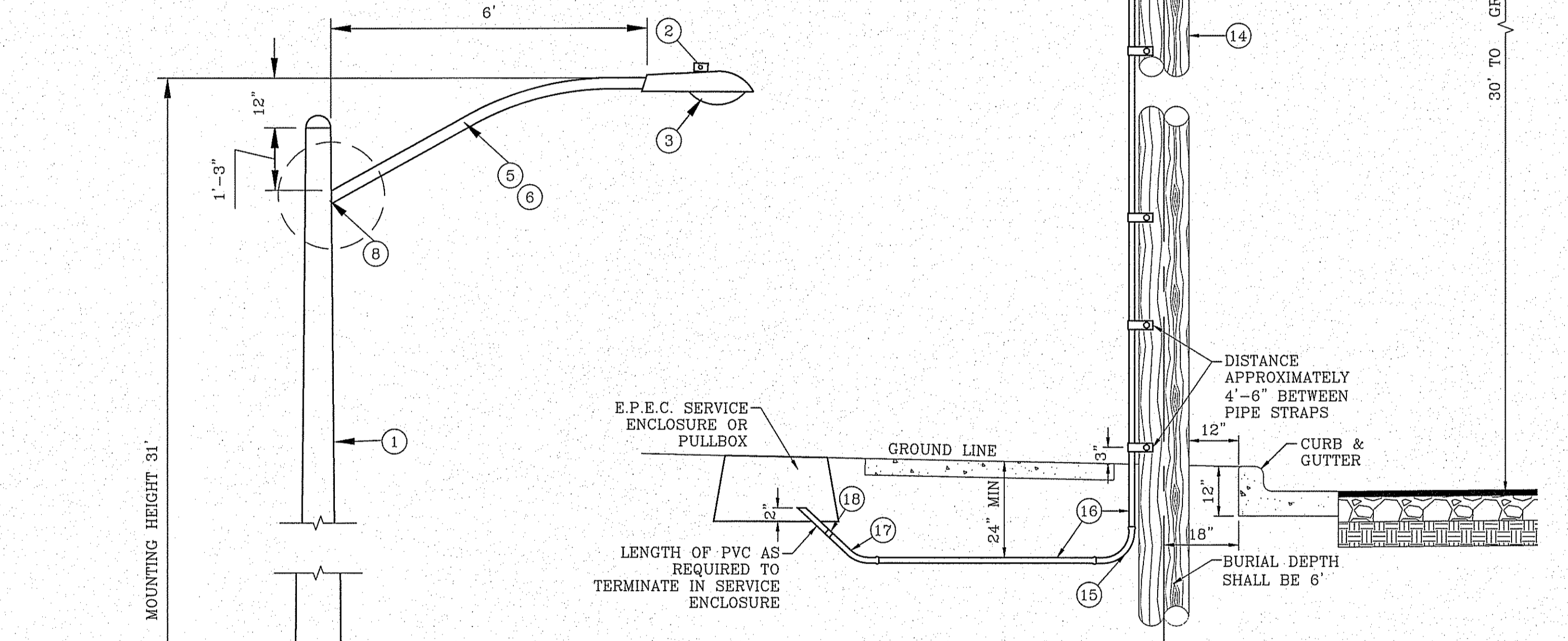
ITEM No.	DESCRIPTION	STOCK DSO No.	QTY.
1	POLE, 36 FT STEEL POLE		1
2	PHOTOCELL, 240 V - SEE NOTE 1	021-225	1
3	LED LUMINAIR MIN. 65 WATTS	021-335	1
4	NOT USED		
5	MAST ARM 5' X 1 1/4"	21-200	1
6	#10 SOLID CABLE 600V	013-600	AS REQ'D
7	CABLE #10, 3 CONDUCTOR, 600 V, UF	013-600	40' PLUS
8	SLEEVE, #12	05-145	AS REQ'D
9	ROADWAY LUMINAIRE HPS 150 WATTS	21-340	1
10	BREAK-A-WAY FUSES 30 AMP	21-250	2
11	ALUMINUM TRANSFORMER BASE	21-608	1
12	5/8" GROUND ROD CLAMP	07-561	1
13	5/8" X 10' CU BONDED GROUND ROD	08-626	1

- WOOD POLE NOTES**
- MOUNT SO THAT PHOTO CELL IS FACING NORTH.
 - ITEM #9 SHALL NOT BE SPLICED INSIDE ITEM #5.
 - INSTALLATION MUST COMPLY WITH LOCAL CODE REQUIREMENTS.
 - FOR ANY CLARIFICATION, EXCEPTIONS OR QUESTIONS REGARDING THIS STANDARD, CALL THE EL PASO ELECTRIC COMPANY DISTRIBUTION DESIGN DEPARTMENT.

- STEEL POLE NOTES**
- MOUNT SO THAT CONTROL FACES NORTH.
 - ITEM 7 SHALL NOT BE SPLICED INSIDE ITEM 5.

- STEEL POLE DESIGN NOTES**
- INSTALLATION SHALL COMPLY WITH ALL LOCAL CODE REQUIREMENTS.
 - FOR ANY CLARIFICATION, EXCEPTIONS OR QUESTIONS REGARDING CODE INTERPRETATION CALL THE EL PASO ELECTRIC CO. DISTRIBUTION DEVELOPMENT DEPARTMENT.
 - A GROUND ROD MUST BE USED.
 - FOUNDATION DIMENSIONS ARE AS FOLLOWS:

DIAMETER	DEPTH
(X)	(Y)
NORMAL SOIL 24"	72"
ROCKY SOIL 24"	60"



NOTE:
X AND Y DIMENSION WILL BE BASED ON SOIL TYPE.
SEE NOTE 4.

RESIDENTIAL STREET LIGHT STEEL POLE
SCALE: 1"=2'

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



BENCHMARK

BENCHMARK LOCATED AT THE CENTERLINE INTERSECTION OF COPPER TOWN DRIVE AND MESQUITE HILLS DRIVE.
ELEV. = 4013.00

DATE	REVISIONS	BY	E.J.
07/06/16	AS PER CITY REDLINES COMMENTS		

MESQUITE HILLS UNIT 8

BEING PORTION OF TRACT 6C, SECTION 16 AND PORTION OF TRACTS 1D AND 1E, SECTION 17, BLOCK 80, TOWNSHIP 1, TEXAS AND PACIFIC RAILROAD CO. SURVEYS, CITY OF EL PASO, EL PASO COUNTY, TEXAS CONTAINING: 37.051 ACRES

ENGINEER'S SEAL

SCA L E
HORIZ: 1"= 100'
VERT: ---

DATE: FEB. 2016
DESIGN BY: Y.C.
INITIATED BY: E.J.
CHECKED BY: Y.C.
JOB NO.: 113-30

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

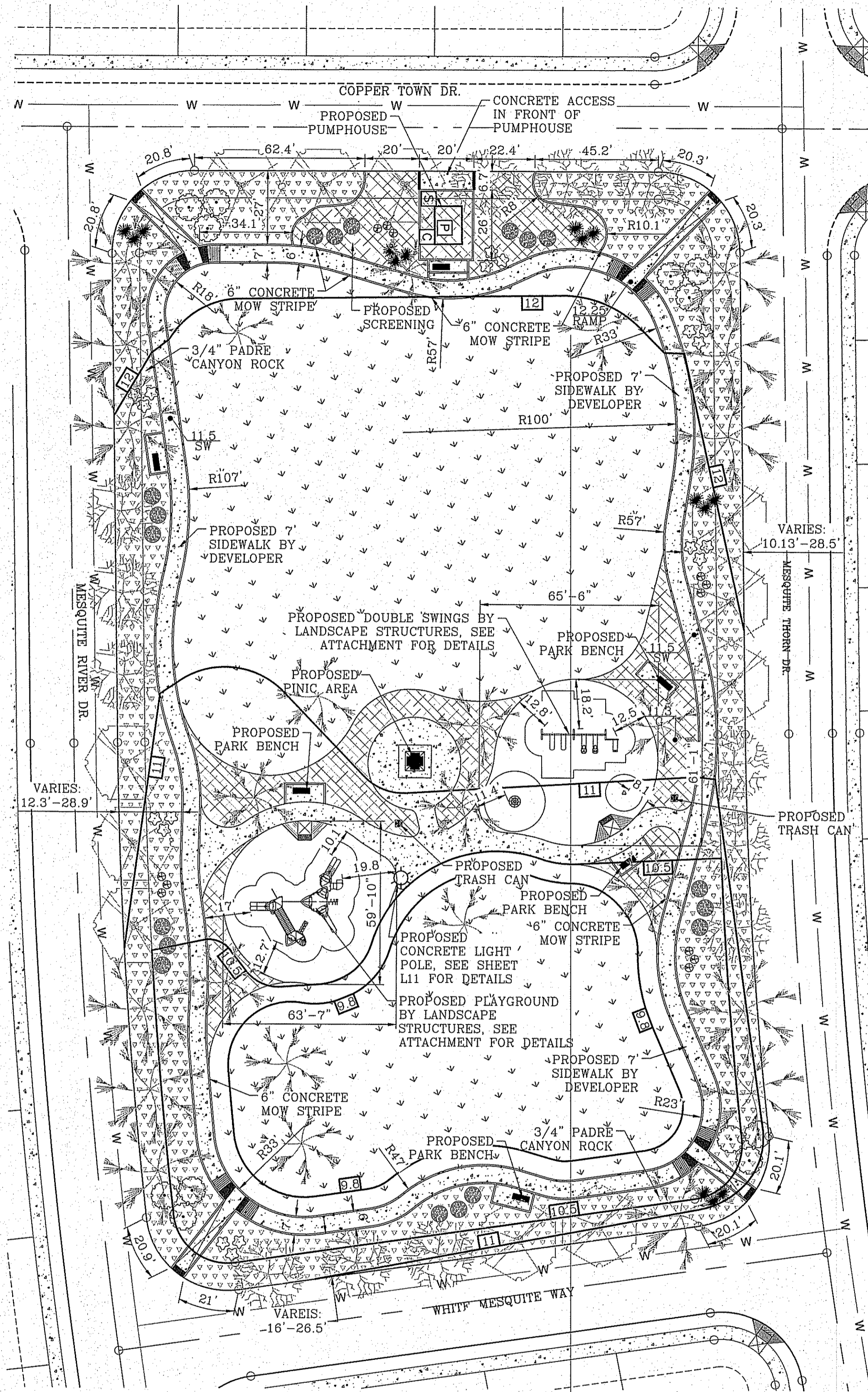
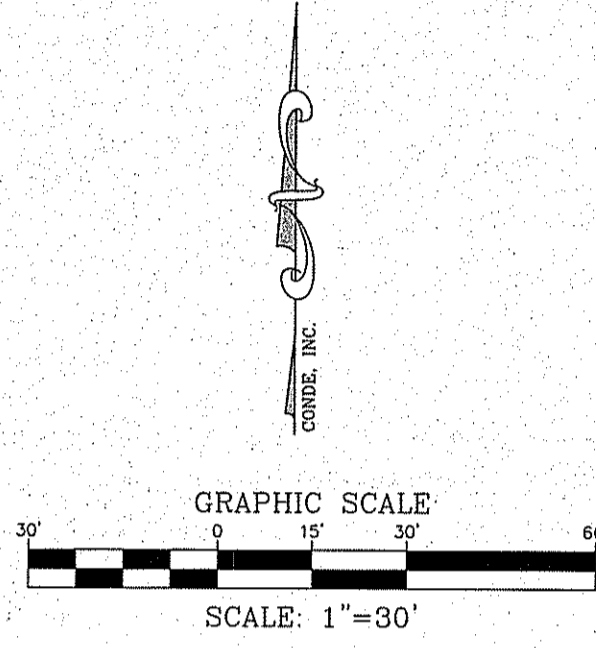
SHEET TITLE

ILLUMINATION AND TRAFFIC CONTROL PLAN

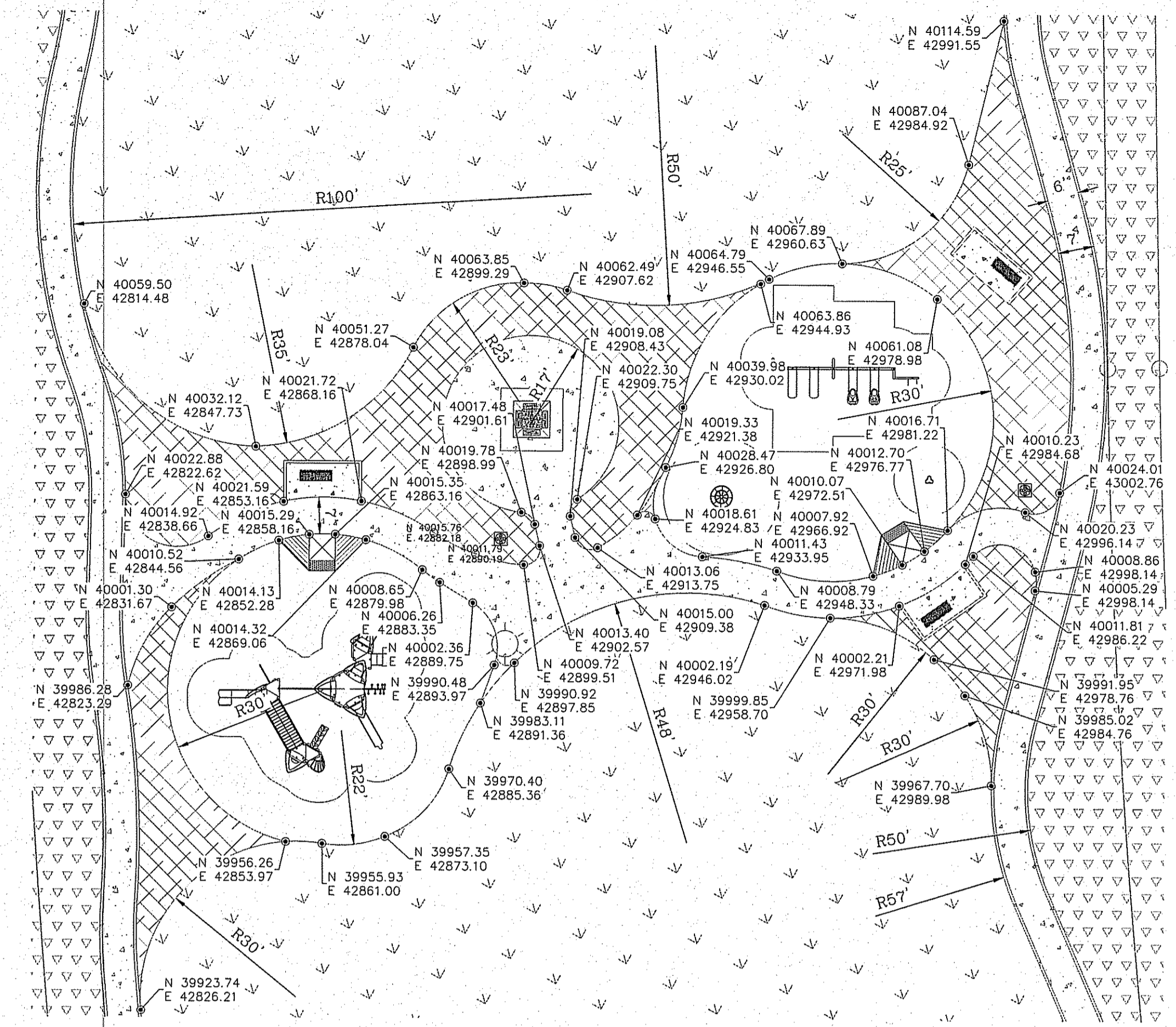
FILE LOCATION S:\LANDSCAPE\MESQUITE HILLS 8\DWG\MESQUITE HILLS 8_L&I PLOTTED ON Wednesday, December 07, 2016 2:05:18 PM BY ESTEBAN JUAREZ

NOTE:
IN COMPLIANCE WITH THE PARK DESIGN AND CONSTRUCTION STANDARDS FOR PARK FACILITIES:

- (1) UNSUITABLE SOIL CONDITION MITIGATION TO INCLUDE:
1. REMOVAL OF CALICHE, DELETERIOUS MATERIALS (CONCRETE, ASPHALT, TRASH, BUILDING MATERIALS, ETC.), ROCK AND CLAY FROM THE FIRST 12 INCHES BELOW FINISH GRADE.
2. SHATTERING, IN TWO DIRECTIONS, OF HARD PAN CALICHE, CLAY SOILS, ROCKS TO A DEPTH OF 36 INCHES BELOW FINISHED GRADE.
3. REMOVE DELETERIOUS MATERIALS 24 INCHES BELOW FINISH GRADE.
4. IMPORT AND INSTALL 12 INCHES OF SUITABLE TOP SOIL TO OBTAIN FINISH GRADE FOR TURF GRASS ESTABLISHMENT AS DETERMINED BY THE PARKS AND DIRECTOR, OR DESIGNER, AND LANDSCAPE ARCHITECT.



PARKS DEPARTMENT
REVIEWED BY *[Signature]* 12/08/2016



LEGEND

COMMON NAME	BOTANICAL NAME / SIZE / HEIGHT	QUANTITY
CIMARRON ASH	FRAXINUS PENNSYLVANICA / 2" CAL. / 10' (DECIDUOUS)	25
TEXAS RED OAK	QUERCUS BUCKLEYI / 2" CAL. / 10' (DECIDUOUS)	11
PALO VERDE	CERCIDIUM FLORIDUM / 2" CAL. / 10' (DECIDUOUS)	12
LILY OF THE NILE	AGAPANTHUS AFRICANUS / 1 GAL. (DECIDUOUS)	12
PURPLE SAGE	LEUCOPHYLLUM FRUTESCENS / 5 GAL. (EVERGREEN)	18
HAMELS FOUNDATION GRASS	HESPERALOE PARVIFLORA / 5 GAL. (EVERGREEN)	18
RED BIRD OF PARADISE	CAELSPALINAPU LEHERRIMA / 5 GAL. (DECIDUOUS)	15
AUTUM SAGE SELECTIONS	SAVLIA GREGGII / 5 GAL. (SEMI-EVERGREEN)	12
3/4" PADRE CANYON ROCK, 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 - 28,040 SQ. FT.		0.47 AC.
PADRE CANYON SCREENINGS, 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		0.17 AC.
HYBRID BERMUDA "SANTA ANA" SOD - 44,860 SQ. FT.		
CONCRETE SIDEWALK - 6,811 SQ. FT.		
6" WIDE x 12" DEEP CONCRETE MOWSTRIP/HDR CURB		
PARK BENCH (SEE SHEET L10 FOR DETAIL)		

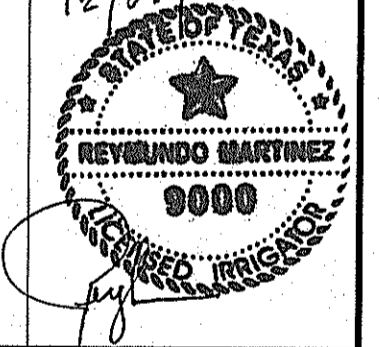
PROPOSED MESQUITE HILLS 8 WHITE MESQUITE PARK

BENCHMARK

DATE	REVISIONS	BY
09/29/16	REVISIONS AS PER CITY COMMENTS 08/19/16	E.J.
11/9/16	REVISIONS AS PER CITY COMMENTS 10/28/16	E.J.
12/7/16	REVISIONS AS PER CITY COMMENTS 12/7/16	E.J.

PROJECT NAME
PROPOSED MESQUITE HILLS 8
WHITE MESQUITE PARK
6940 COPPER TOWN DR.
BEING ALL OF LOTS 1, BLOCK 50,
MESQUITE HILLS UNIT 8,
76,986.91 S.F. OR 1.813 ACRES

SCALE
HORIZ: 1" = 30'
VERT: ---
DATE: JUNE 2016
DESIGN BY: R.M.
INITIATED BY: E.J.
CHECKED BY: R.M.
JOB NO.: 216-33



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



SHEET TITLE
PROPOSED PARK LANDSCAPE PLAN

FILE LOCATION: S:\LANDSCAPE\MESQUITE HILLS 8\DWG\MESQUITE HILLS 8 L&I PLOTTED ON Wednesday, November 16, 2016 11:03:41 AM BY ESTEBAN JUAREZ

GENERAL PARK NOTES

- FOR PROJECT(S) TO BE COORDINATED WITH TDLR TO INSURE COMPLIANCE WITH TAS REQUIREMENTS TO INCLUDE INSPECTIONS, AND CERTIFICATE OF SUBSTANTIAL COMPLETION. APPROVAL OF THE SUBDIVISION/PARK IMPROVEMENTS PLANS IS SUBJECT TO APPLICANT PROVIDING PROOF OF THE PROJECT REGISTRATION - PLD # (REGISTRATION NUMBER)
- FOR ALL PARK IMPROVEMENTS (SIDEWALKS, RAMPS, ETC.) AND PAVED HIKE/BIKE TRAILS (IF APPLICABLE) TO BE COMPLIANT WITH REQUIRED ACCESSIBILITY CRITERIA AS SET FORTH IN ADAAG AND TAS STANDARDS AS MANDATED BY FEDERAL AND STATE GOVERNMENTS.
- FOR NO SIGNS, FIRE HYDRANTS, LIGHTS, NDCBU'S, ELECTRICAL/WATER BOXES, TELEPHONE PEDESTALS, NO OBSTRUCTIONS IN GENERAL, SHALL INTERFERE / ENCR OACH IN TO THE PROPOSED SIDEWALKS / JOGGING TRAILS.
- FOR APPLICANT/ CONTRACTOR TO OBTAIN BUILDING, ELECTRICAL, IRRIGATION, AND ANY OTHER REQUIRED PERMITS FROM DEVELOPMENT SERVICES (BP&I) BUILDING PERMITS AND INSPECTIONS DIVISION.
- FOR DEVELOPER TO OBTAIN SOIL SAMPLES (TAKEN FROM PROPOSED PARK SITE LOCATION FINISHED GROUND) AND PROVIDE COMPLETE ANALYSIS REPORT (TEXTURAL, MINERALS AVAILABILITY, WATER INFILTRATION, DETAILED SALINITY AND PH CONDUCTIVITY TEST) WITH RECOMMENDATIONS FOR SOILS AMENDMENTS AND PREPARATION TO INSURE EXISTING SOIL CONDITIONS ARE SUITABLE FOR TURF, SHRUBS, AND TREE GROWTH. COORDINATE SITE VISIT WITH PARKS STAFF FOR COLLECTION OF SOIL SAMPLES.
- FOR ANY UNSUITABLE SOIL CONDITIONS SHALL BE REMEDIATED TO ELIMINATE HARD SOILS, STONY SOILS, HIGH CALICHE SOILS, CLAY SOILS, AND CONTAMINATED SOILS TO A MINIMUM DEPTH OF 12 INCHES AS REQUIRED FOR PROPER PLANTING AS PER PARKS DESIGN & CONSTRUCTION STANDARDS.
- FOR ANY UNSUITABLE SOIL MATERIALS NOT APPROVED BY PARKS DEPARTMENT ARE TO BE REMOVED, DISPOSED OF, AND REPLACED WITH TOP SOIL TO A MINIMUM DEPTH OF 12 INCHES.

VALVE AND PRECIPITATION TABLE - ROTORS

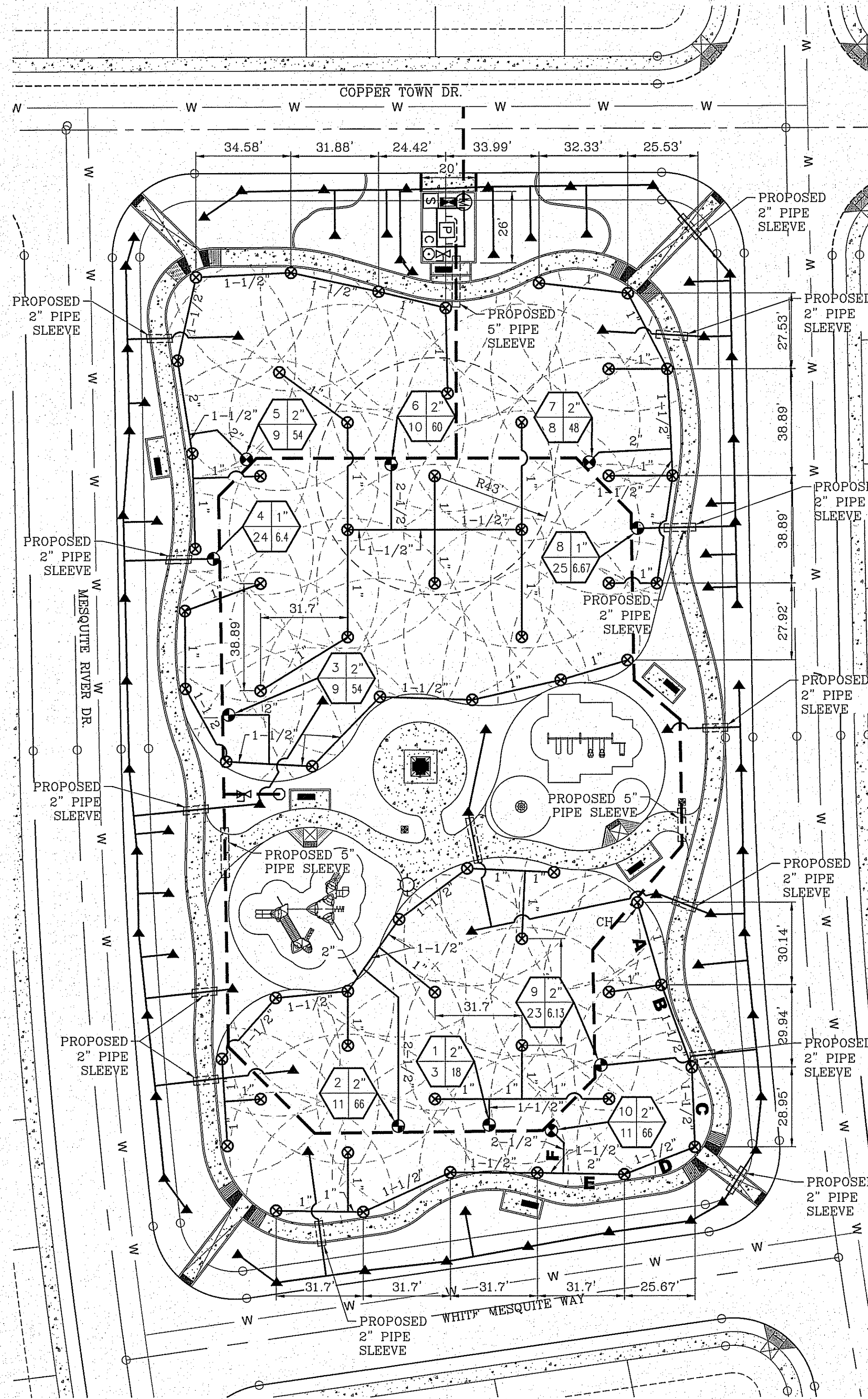
VALVE NUMBER	VALVE SIZE	SPRINKLER MODEL TYPE	GPM	NUMBER OF HEADS	NOZZLE	PRECIPITATION RATES	RUNTIME FOR 0.67" OF WATER IN MINUTES
1	1"	I-20-06-SS-06	18.00	3	#6	0.47	86
2	1"	I-20-06-SS-06	66.00	11	#6	0.88	46
3	1"	I-20-06-SS-06	54.00	9	#6	0.88	46
5	1"	I-20-06-SS-06	54.00	9	#6	0.88	46
6	1"	I-20-06-SS-06	60.00	10	#6	0.47	86
7	1"	I-20-06-SS-06	48.00	8	#6	0.88	46
10	1"	I-20-06-SS-06	66.00	11	#6	0.88	46
TOTAL RUN TIME:				402	MIN.	OR	6 HRS. 42 MIN.

VALVE AND PRECIPITATION TABLE - EMMITTERS

VALVE NUMBER	VALVE SIZE	SPRINKLER MODEL TYPE	GPM	NUMBER OF HEADS	NOZZLE	PRECIPITATION RATES
4	1"	XERI-BIRD 8	6.4	24	XBD-80	-
8	1"	XERI-BIRD 8	6.7	25	XBD-80	-
9	1"	XERI-BIRD 8	6.1	23	XBD-80	-
TOTAL RUN TIME, THREE DAYS PER WEEK (EMITTERS):			FOR 45 MINUTES			

HYDRAULIC CALCULATION TABLE

ZONE #10		STATIC PRESSURE 55 AS PER PSB:			SECTION GPM 66.0	
LATERAL PIPE SECTION	PIPE LENGTH (FEET)	FLOW (GPM)	SIZE (IN)	PRESSURE LOSS PER 100 FEET	PRESSURE LOSS THIS SECTION	ACCUMULATED PRESSURE LOSS
A-PVC CLASS 200	31	6	1"	0.546	0.1720	0.172
B-PVC CLASS 200	32	18.0	1-1/2"	0.677	0.2159	0.388
C-PVC CLASS 200	29	24.0	1-1/2"	1.15	0.3331	0.721
D-PVC CLASS 200	28	30.0	1-1/2"	1.74	0.4789	1.200
E-PVC CLASS 200	22	36.0	2"	0.816	0.1818	1.382
F-PVC CLASS 200	15	66.0	2-1/2"	0.982	0.1489	1.531
TOTAL LATERAL PIPING PRESSURE LOSS IN PSI						
IRRIGATION ITEM						
ZONE VALVE		66	2"		2.36	3.891
MAIN LINE-PVC SCHED 40 (LOOPED MAIN)	744	66	2"	1.52	11.268	15.159
MAIN LINE-PVC SCHED 40	78	66	2-1/2"	1.28	0.997	16.156
BACKFLOW		66	2"		12.00	28.156
TYPE K COPPER LINE (THROUGH PUMP AND BACKFLOW)	35	66	2"	4.48	1.552	29.708
WATER METER		66	1-1/2"			38.288
ELEVATION GAIN	# OF FT.	3.8	x 0.433			1.65
TOTAL PRESSURE LOSS						
MINIMUM HEAD PRESSURE (I-20 ADJ #6 BLUE @ 45 PSI-43' RADIUS 6.0 GPM)						
PRESSURE AT CRITICAL HEAD (STATIC 55 - LOSSES 36.642 = 18.358) ACTUAL						
PRESSURE SHORTAGE						
DESIGN PRESSURE (REQ'D PRESSURE @ CRITICAL HEAD PLUS LOSSES) 45.0 + 36.642 = 81.642						
PUMP REQUIREMENTS (PRESSURE SHORTAGE CONVERTED TO (FT. HEAD) X 2.31) X 10% = FT HD @ 66.0 GPM						
PUMP REQUIREMENTS (PRESSURE SHORTAGE CONVERTED TO (FT. HEAD) X 2.31) X 10% = FT HD @ 66.0 GPM						



WATERING SCHEDULE

STATION NUMBER	GPM	RUN TIME		
		START TIME	END TIME	TOTAL MINUTES
1	18.0	10:00 PM	11:26 PM	86 MIN.
2	66.0	11:26 PM	12:12 AM	46 MIN.
3	54.0	12:12 AM	12:58 AM	46 MIN.
5	54.0	12:58 AM	1:44 AM	46 MIN.
6	60.0	1:44 AM	3:10 AM	86 MIN.
7	48.0	3:10 AM	3:56 AM	46 MIN.
10	66.0	3:56 AM	4:42 AM	46 MIN.
TOTAL RUN TIME, THREE DAYS PER WEEK:		6	HRS.	42 MIN.

REGISTRATION NUMBER (PLD#): EABPRJB7803035

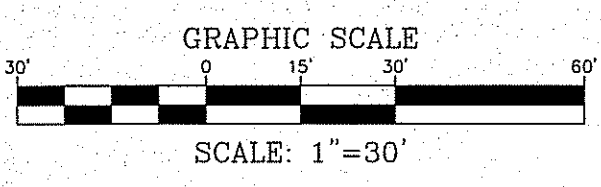
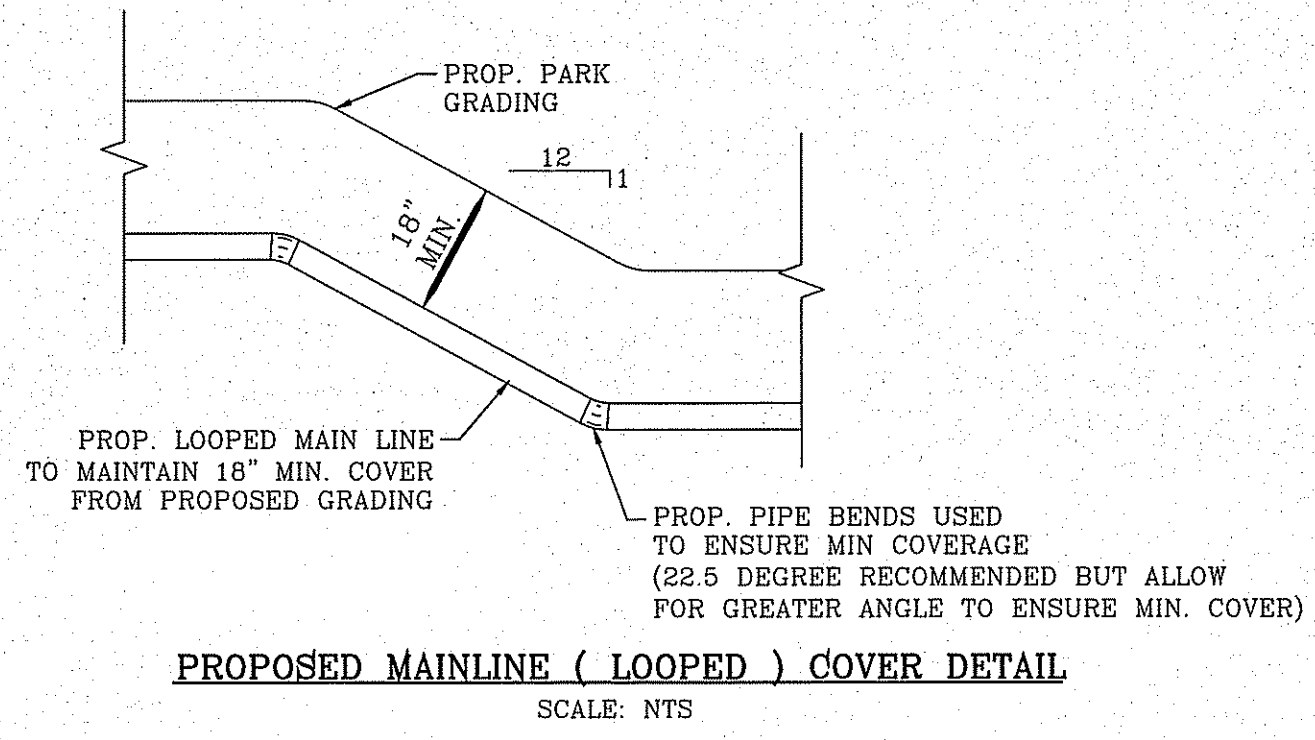
PARKS DEPARTMENT

REVIEWED BY: *Antonio...* for 12/08/2016

HEAD SPACING: 38.89'
ROW SPACING: 31.7'
RADIUS OF NOZZLE = 43'
45' x 86' = 38.7
38.7 x .866 = 33.61

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



- KEYED NOTES:**
- IRRIGATION TAP POINT VERIFY 50 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"

- IRRIGATION DRIP EMITTER NOTES:**
- ALL PVC PIPE PERTAINING DRIP EMITTERS TO BE CLASS 200 SIZE 1" UNLESS OTHERWISE NOTED

PRECIPITATION RATE

FULL SPRAY
 PR = FULL HEAD GPM x 96.25 / HEAD SPACING x ROW SPACING
 PR = 6.0 x 96.25 = 577.5 / 38.89' x 31.7' = 1232.8132 = 0.47 IN./HR.

HALF SPRAY
 PR = FULL HEAD GPM x 96.25 / HEAD SPACING x 0.433
 PR = 6.0 x 96.25 = 577.5 / 38.89' x 0.433 = 654.88 = 0.86 IN./HR.

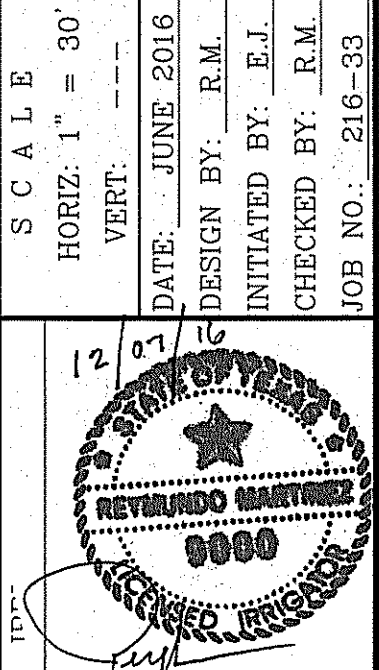
- LEGEND**
- 2-1/2" PVC SCHEDULE 40 MAIN WATER LINE
 - 2" PVC SCHEDULE 40 LOOPED WATER MAIN
 - TYPE K 2" COPPER WATER TUBE
 - PVC CLASS 200 IPS PLASTIC PIPE WATER LATERAL (SIZE AS NOTED)
 - PVC SLEEVE TO EXTEND 24" FROM EDGES (TWICE THE SIZE OF PIPE)
 - 1-1/2" WATER METER BY DEVELOPER - MAX FLOW 75 GPM
 - FEBCO (BF) SERIES LP825V 2" RPZA W/ ENCLOSURE
 - RAIN SENSOR
 - RAINBIRD ESP-12SITEW STATION CONTROLLER. SEE SHEET L9 FOR DETAILS
 - PUMP W/ 10' x 14' TUFF SHED ENCLOSURE. SEE DATA SHEET ON L9 FOR FOUNDATION PLAN
 - WEATHERMATIC B200CR SERIES BRONZE BULLET (2" B200CR-20D)
 - HUNTER I-20 ADJUSTABLE STAINLESS STEEL RISER ROTOR NOZZLE #6.0 BLUE @ 45 PSI RADIUS: 43' FLOW: 6.0 GPM
 - XERIBIRD 8 EMMITTER
 - 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
 - AMIA 1" WYE FILTER & WILKINS 600 SERIES PRESSURE REGULATOR
 - BUCKNER DOUBLE LUG 1" QUICK COUPLER PURPLE BOLT CAP W/ BRASS STABILIZER IN VALVE BOX WITH PURPLE LID.



REVISIONS

DATE	BY	REVISIONS
09/28/16	E.J.	REVISIONS AS PER CITY COMMENTS 08/19/16
11/2/16	E.J.	REVISIONS AS PER CITY COMMENTS 10/28/16

PROPOSED MESQUITE HILLS 8 WHITE MESQUITE PARK
 6940 COPPER TOWN DR.
 BEING ALL OF LOT 1, BLOCK 50, MESQUITE HILLS UNIT #6
 78,966.91 S.F. OR 1.813 ACRES

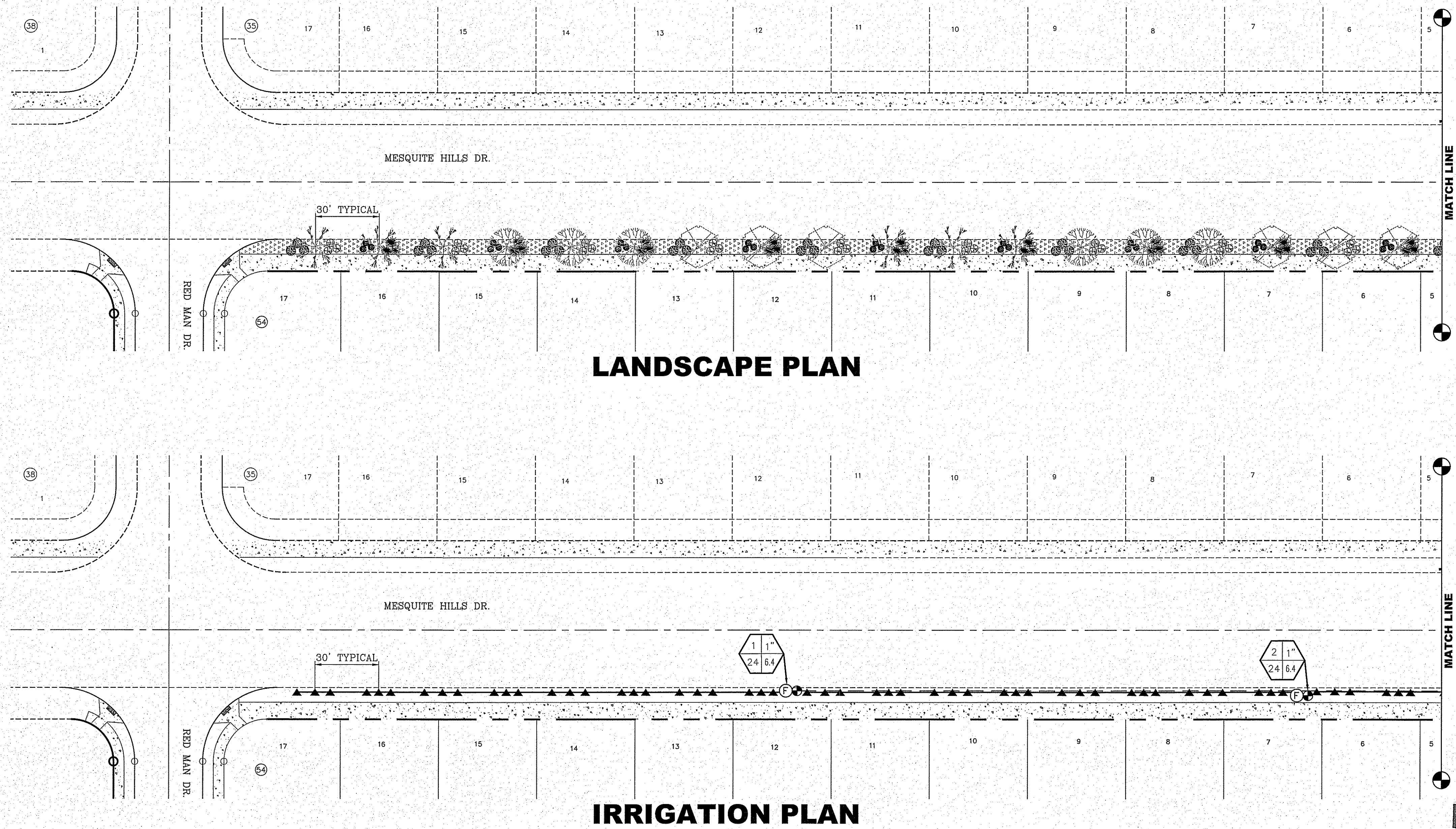


CONDE INC.
 ENGINEERING / PLANNING / SURVEYING / GPS
 6080 SURETY DR. STE 100
 EL PASO, TEXAS 79905
 PHONE: (915) 592-0283
 FAX: (915) 592-0286



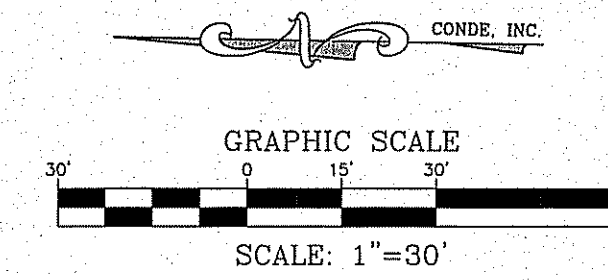
PROPOSED PARK IRRIGATION PLAN

FILE LOCATION S:\LANDSCAPE\MESQUITE HILLS 8.L&I PLOTTED ON Wednesday, November 16, 2016 11:03:50 AM BY ESTEBAN JUAREZ



LANDSCAPE PLAN

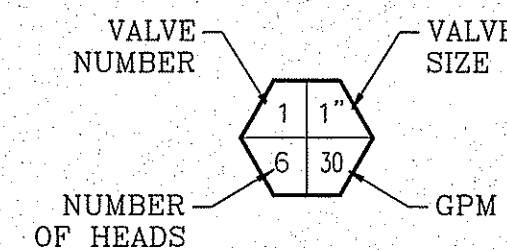
IRRIGATION PLAN



PARKS DEPARTMENT
 REVIEWED BY: *Antonio...* 12/08/2014

IRRIGATION LEGEND

- 1" PVC SCHEDULE 40 MAIN WATER LINE
- TYPE K 1" COPPER WATER TUBE
- 1" PVC SCHEDULE 40 WATER LATERAL
- PVC SLEEVE TO EXTEND 24" FROM EDGES (TWICE THE SIZE OF PIPE)
- 3/4" WATER METER BY DEVELOPER - MAX FLOW 15 GPM
- FEBCO (BF) SERIES LF825Y 3/4" RPZA W/ ENCLOSURE
- RAINBIRD ESP-LXME CONTROLLER, SEE SHEET L9 FOR DETAIL
- WEATHERMATIC 8200CR SERIES BRONZE BULLET (1" 8200CR-10)
- XERIBIRD 8 EMMITER
- 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 600 SERIES PRESSURE REGULATOR



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

LEGEND

COMMON NAME	BOTANICAL NAME / SIZE	QUANTITY (THIS SHEET)	QUANTITY (TOTAL)
CIMARRON ASH	FRAXINUS PENNSYLVANICA / 2" CAL. (DECIDUOUS)	6	20
TEXAS RED OAK	QUERCUS BUCKLEYI / 2" CAL. (DECIDUOUS)	6	19
PALO VERDE	CERCIDIUM FLORIDUM / 2" CAL. (DECIDUOUS)	6	18
OLEANDER PINK	NERIUM OLEANDER / 5 GAL. (DECIDUOUS)	27	57
RED YUCCA	HESPERALOE PARVIFLORA / 5 GAL. (DECIDUOUS)	27	60
PURPLE SAGE	LEUCOPHYLLUM FRUTESCENS / 5 GAL. (EVERGREEN)	28	59
AUTUM SAGE SELECTIONS	SAVILIA GREGGH / 5 GAL. (SEMI-EVERGREEN)	27	57
	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	0.09 AC.	0.29 AC.

PROPOSED MESQUITE HILLS 8 WHITE MESQUITE PARK

CONDE INC.
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MESQUITE HILLS DR. LANDSCAPE AND IRRIGATION

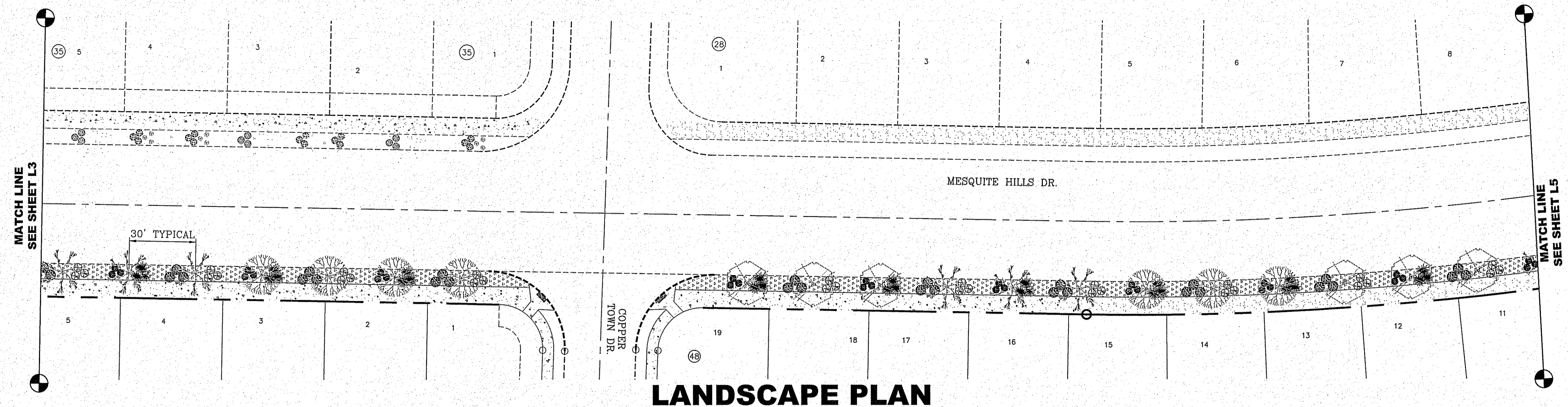
SHT **L3** OF **L11**

PROJECT NAME: **MESQUITE HILLS DR. WESTSIDE HIKE & BIKE TRAIL**
 BEING A PORTION OF MESQUITE HILLS DR., MESQUITE HILLS UNIT 2, 12.50636 S.F. OR 0.2874 ACRES

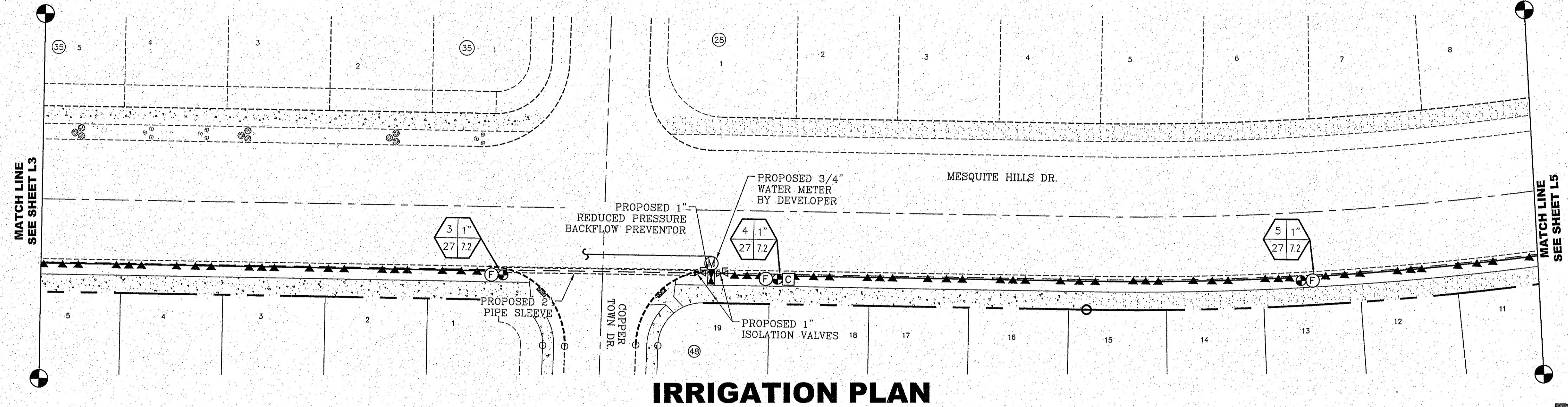
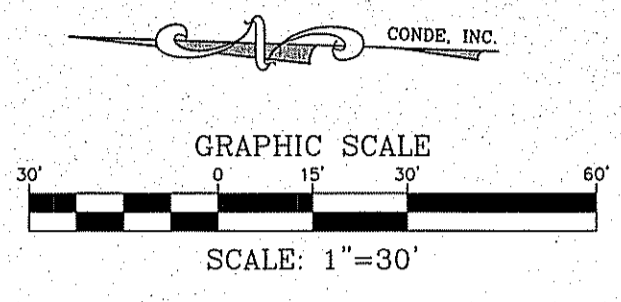
SCALE: HORIZ: 1" = 30', VERT: ---
 DATE: JUNE 2016
 DESIGN BY: R.M.
 INITIATED BY: E.J.
 CHECKED BY: R.M.
 JOB NO.: 216-33

REVISIONS AS PER CITY COMMENTS 10/29/16
 DATE: 11/2/16
 BY: E.J.

FILE LOCATION S:\LANDSCAPE\MESQUITE HILLS 8 L&I PLOTTED ON Wednesday, November 16, 2016 11:04:00 AM BY ESTEBAN JUAREZ



LANDSCAPE PLAN



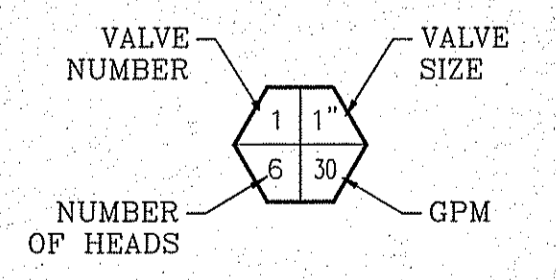
IRRIGATION PLAN



PARKS DEPARTMENT
 REVIEWED BY: [Signature] 12/08/2016

IRRIGATION LEGEND

- 1" PVC SCHEDULE 40 MAIN WATER LINE
- TYPE K 1" COPPER WATER TUBE
- 1" PVC SCHEDULE 40 WATER LATERAL
- PVC SLEEVE TO EXTEND 24" FROM EDGES (TWICE THE SIZE OF PIPE)
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- FEBCO (BF) SERIES LF825Y 3/4" RPZA W/ ENCLOSURE
- RAINBIRD ESP-LXME CONTROLLER. SEE SHEET L9 FOR DETAIL
- WEATHERMATIC 8200CR SERIES BRONZE BULLET (1" 8200CR-10)
- XERIBIRD 8 EMMITER.
- 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 600 SERIES PRESSURE REGULATOR



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

LEGEND

COMMON NAME	BOTANICAL NAME / SIZE	QUANTITY (THIS SHEET)	QUANTITY (TOTAL)
CIMARRON ASH	FRAXINUS PENNSYLVANICA / 2" CAL. (DECIDUOUS)	6	20
TEXAS RED OAK	QUERCUS BUCKLEYI / 2" CAL. (DECIDUOUS)	7	19
PALO VERDE	CERCIDIUM FLORIDUM / 2" CAL. (DECIDUOUS)	6	18
OLEANDER PINK	NERIUM OLEANDER / 5 GAL. (DECIDUOUS)	30	57
RED YUCCA	HESPERALOE PARVIFLORA / 5 GAL. (DECIDUOUS)	30	60
PURPLE SAGE	LEUCOPHYLLUM FRUTESCENS / 5 GAL. (EVERGREEN)	29	59
AUTUM SAGE SELECTIONS	SAVIA GREGGH / 5 GAL. (SEMI-EVERGREEN)	27	57
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		0.10 AC.	0.29 AC.

DATE	11/2/16	REVISIONS	
BY	E.J.	REVISIONS AS PER CITY COMMENTS	10/28/16

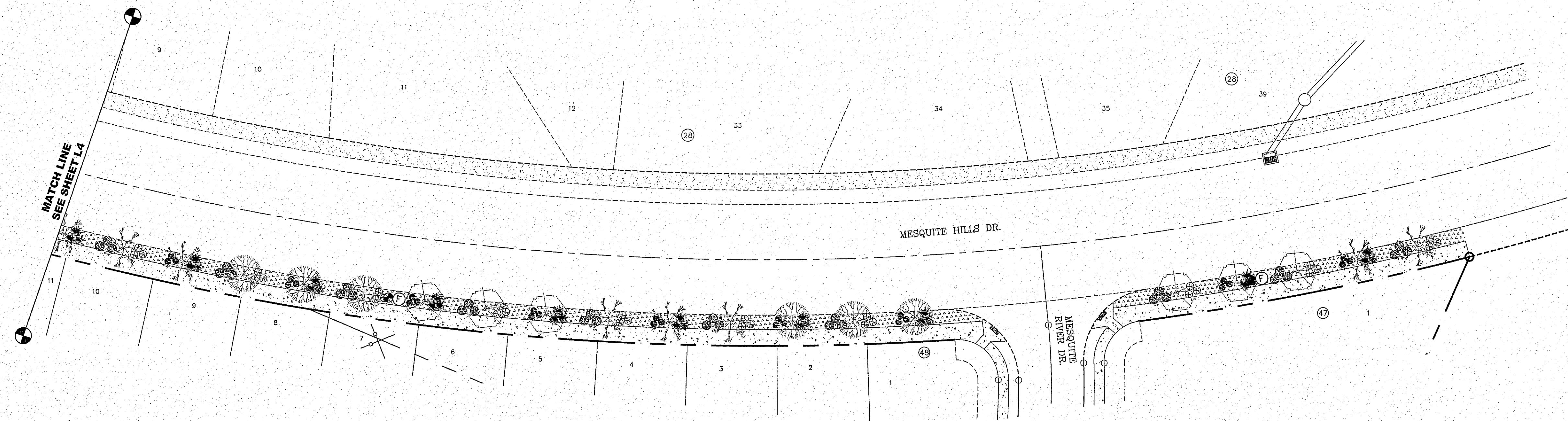
MESQUITE HILLS DR. WESTSIDE HIKE & BIKE TRAIL
 BEING A PORTION OF MESQUITE HILLS DR. MESQUITE HILLS TRAIL (C) 12,506.36 S.F. OR 0.287± ACRES

SCALE: HORIZ: 1" = 30' VERT: 1" = 10'
 DATE: JUNE 2016
 DESIGN BY: R.M.
 INITIATED BY: E.J.
 CHECKED BY: R.M.
 JOB NO.: 216-33

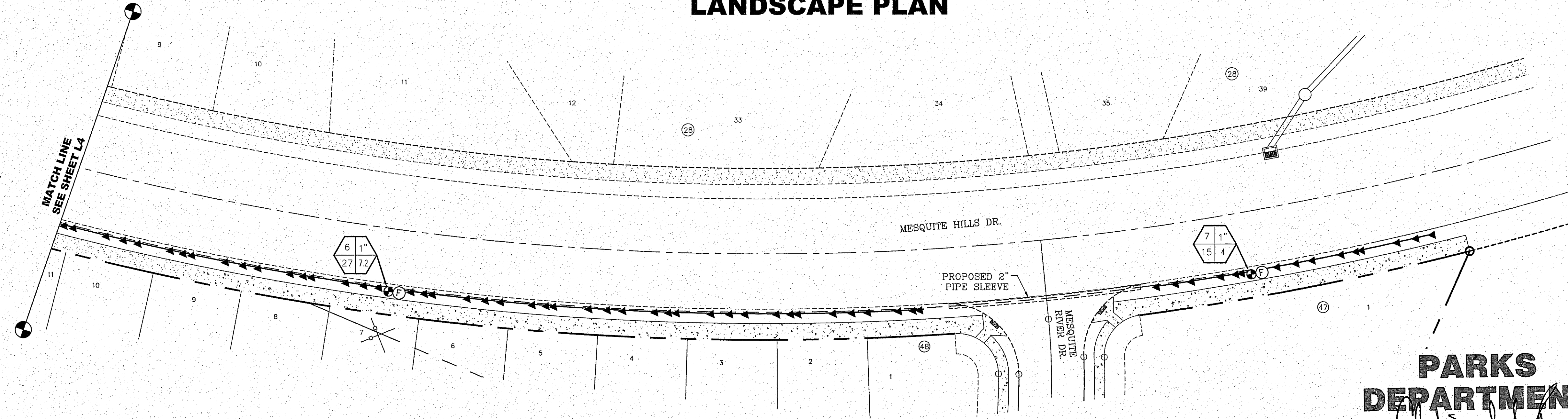
CONDE INC.
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 EL PASO, TEXAS 79905
 PHONE: (915) 592-0283
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SHEET TITLE
MESQUITE HILLS DR. LANDSCAPE AND IRRIGATION
 SHT L4 OF L11

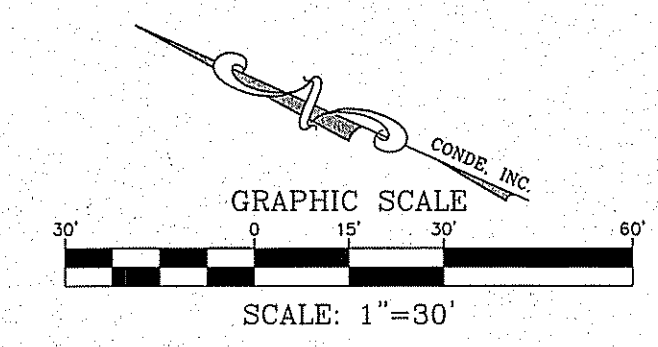
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LANDSCAPE PLAN



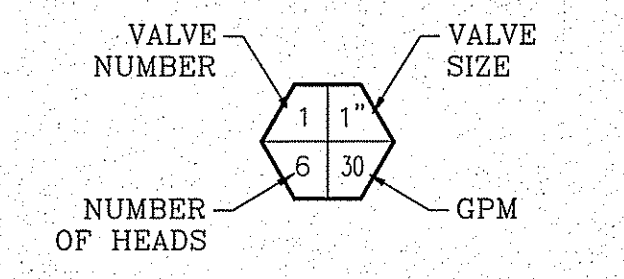
IRRIGATION PLAN



PARKS DEPARTMENT
 REVIEWED BY *Antonio...* 12/08/2016

IRRIGATION LEGEND

- 1" PVC SCHEDULE 40 MAIN WATER LINE
- TYPE K 1" COPPER WATER TUBE
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THIS DESIGN COMPLIES WITH THE CITY OF EL PASO APPROVED PARK DESIGN STANDARDS ADOPTED JANUARY 8, 2013

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LEGEND

COMMON NAME	BOTANICAL NAME / SIZE	QUANTITY (THIS SHEET)	QUANTITY (TOTAL)
CIMARRON ASH	FRAXINUS PENNSYLVANICA / 2" CAL. (DECIDUOUS)	8	20
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PALO VERDE	CERCIDIUM FLORIDUM / 2" CAL. (DECIDUOUS)	6	18
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BENCHMARK

DATE	REVISIONS	BY
11/2/16	REVISIONS AS PER CITY COMMENTS 10/28/16	E.J.

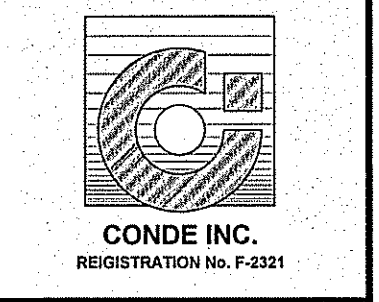
PROJECT NAME
MESQUITE HILLS DR. WESTSIDE HIKE & BIKE TRAIL
 BEING A PORTION OF MESQUITE HILLS DR. DR. BEING A PORTION OF MESQUITE HILLS UNIT 2 12,506.36 S.F. OR 0.287± ACRES

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

DATE: JUNE 2016
 DESIGN BY: R.M.
 INITIATED BY: E.J.
 CHECKED BY: R.M.
 JOB NO.: 216-339



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



SHEET TITLE
MESQUITE HILLS DR. LANDSCAPE AND IRRIGATION

SHT L5 OF L11

GENERAL NOTES

- THE CONTRACTOR SHALL VISIT AND FAMILIARIZE HIMSELF WITH THE PROJECT SITE PRIOR TO SUBMITTING HIS BID.
- 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 THE 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. CONSTRUCTION WORK IN CLOSE PROXIMITY TO UNDER-GROUND UTILITIES SHALL BE COORDINATED WITH APPROPRIATE AGENCY.
- THE CONTRACTOR SHALL COORDINATE THE CONSTRUCTION SCHEDULE WITH OWNER, ALL AFFECTED UTILITY COMPANIES, AND ALL OTHER ENTITIES HAVING JURISDICTION OVER THE PROJECT.
- THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND GRADES PRIOR TO COMMENCING WITH THE WORK. ANY DISCREPANCY NOTED SHALL BE REPORTED IMMEDIATELY TO THE PROJECT MANAGER. FAILURE OF THE CONTRACTOR TO REPORT ANY FIELD AND PLAN DISCREPANCIES SHALL MAKE THE CONTRACTOR RESPONSIBLE FOR WORK THAT IS PERFORMED.
- VIBRATORY ROLLERS SHALL NOT BE PERMITTED ON ANY PHASE OF THIS PROJECT, UNLESS APPROVED IN WRITING BY THE CITY ENGINEER.
- ALL WORK ON THIS PROJECT SHALL BE PERFORMED IN STRICT CONFORMANCE WITH ALL CURRENT SAFETY CODES AND STANDARDS, INCLUDING BUT NOT LIMITED TO, OSHA REQUIREMENTS.
- WARNING BEFORE EXCAVATING, CONTRACTOR SHALL LOCATE AND PROTECT ALL UNDERGROUND UTILITIES. CONTRACTOR SHALL REPLACE ANY UTILITIES DAMAGED DURING CONSTRUCTION AT NO ADDITIONAL COST TO OWNER.
- CONTRACTOR SHALL WATER CONSTRUCTION SITE AREA A MINIMUM OF TWICE A DAY TO DUST CONTROL, ONCE IN THE MORNING AND ONCE IN THE AFTERNOON. THIS SHALL ALSO BE DONE ON WEEKENDS AND HOLIDAYS.
- CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF EXISTING IMPROVEMENTS IN THE PROJECT AREA AND ITS VICINITY. ANY DAMAGE RESULTING FROM CONTRACTOR WORK SHALL BE RESTORED AT NO COST TO OWNER.
- CONTRACTOR SHALL COMPLY WITH ALL FEDERAL, STATE AND LOCAL ENVIRONMENTAL REGULATION DURING CONSTRUCTION ACTIVITY.
- CONTRACTOR SHALL BE RESPONSIBLE FOR ANY ENVIRONMENTAL FINES RESULTING FROM HIS/HER WORK AND HOLD THE OWNER HARMLESS IN SUCH CASES.
- CONTRACTOR SHALL SECURE THE SITE DURING CONSTRUCTION TO PROTECT THE AREA FROM VANDALISM AND ILLEGAL TRESPASSING. CONTRACTOR SHALL SECURE THE SITE AT HIS/HER OWN COST. CONTRACTOR SHALL SITE PROTECTION MEASURES SHALL BE SUBMITTED TO THE PARKS AND RECREATION DEPT. FOR APPROVAL.
- ALL EXISTING UTILITIES CURRENTLY IN SERVICE MUST REMAIN IN SERVICE THROUGHOUT CONSTRUCTION EXCEPT AS NOTED IN THE DRAWINGS. THE CONTRACTOR IS RESPONSIBLE FOR PROTECTING ALL EXISTING UTILITIES (INCLUDING SERVICE CONNECTIONS) FROM DAMAGE AS A RESULT OF CONSTRUCTION ACTIVITIES.
- PRIOR TO BEGINNING CONSTRUCTION, CONTRACTOR SHALL COORDINATE WITH ALL UTILITY COMPANIES TO VERIFY LOCATION OF EXISTING UTILITIES & CONTRACTOR SHALL CALL THE RESPECTIVE "1-CALL" NUMBER FOR SUCH UTILITIES.
- CONTRACTOR SHALL INSURE THE FOLLOWING: ALL ACCESSIBLE ROUTES SHALL NOT EXCEED A RUNNING SLOPE GREATER THAN 1:20(5%). NO WHERE SHALL THE CROSS SLOPE OF AN ACCESSIBLE ROUTE EXCEED 1:50(2%). MAXIMUM SLOPE OF ADJOINING GUTTERS, ROAD SURFACE IMMEDIATELY ADJACENT TO THE CURB RAMP, OR ACCESSIBLE ROUTE SHALL NOT EXCEED 1:20(5%). MAXIMUM RUNNING SLOPE OF ANY CURB RAMP SHALL NOT EXCEED 1:12(8.33%) SLOPE. ALL ACCESSIBLE PATHS SHALL COMPLY WITH TAS AND ADAAG.

IRRIGATION PLAN GENERAL NOTES

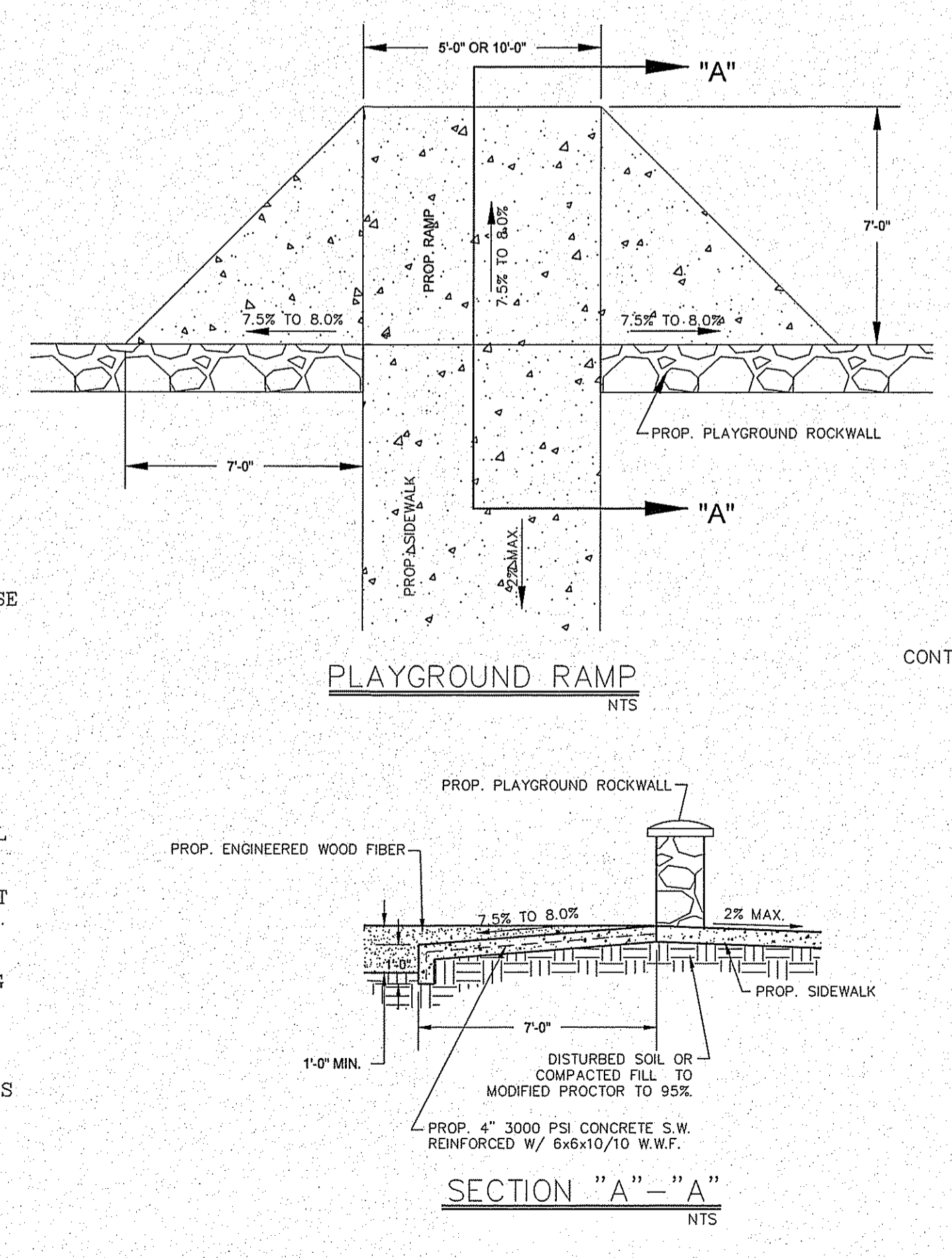
- IRRIGATION PLAN IS DIAGRAMMATIC IN NATURE. CONTRACTOR SHALL BE RESPONSIBLE FOR ACCOMPLISHING FULL COVERAGE IN ALL AREAS WITH SPECIFIED EQUIPMENT. ANY DISCREPANCIES IN THE PLAN SHOULD BE BROUGHT TO THE PROJECT MANAGER'S ATTENTION DURING CONSTRUCTION.
- ALL FITTINGS AND NECESSARY EQUIPMENT REQUIRED TO MAKE THIS IRRIGATION SYSTEM OPERATE PROPERLY AND TO COMPLY WITH LOCAL AND STATE CODES ARE INDICATED ON THESE PLANS AND ARE THE CONTRACTOR'S RESPONSIBILITY.
- CONTRACTOR WILL BE HELD LIABLE FOR GAINING ACCESS UNDER ALL PAVEMENTS.
- SLEEVES SHOWN ON THE PLANS SHOULD BE VERIFIED FOR ACCESSIBILITY AND FEASIBILITY BEFORE BID IS MADE.
- THE CONTRACTOR SHALL LOCATE AND VERIFY EACH WATER TAP TO WHICH THE IRRIGATION SYSTEM WILL CONNECT. ALL EQUIPMENT AND INSTALLATION METHODS SHALL COMPLY WITH THE STANDARDS OF THE CITY OF EL PASO AND THE SPECIFICATIONS.
- CONTRACTOR IS RESPONSIBLE FOR ALL CONNECTIONS AND VALVES REQUIRED FOR THE FULL IMPLEMENTATION OF THE SYSTEM.
- THE CONTRACTOR SHALL LOCATE AND VERIFY THE EXISTENCE OF ALL UTILITIES PRIOR TO INITIATING WORK.
- THE CONTRACTOR WILL BE RESPONSIBLE FOR ANY DAMAGE OR INTERRUPTION IN SERVICE CAUSED BY HIS EXCAVATIONS AND/OR WORK.
- EACH CONTROLLER WILL HAVE AN INDEPENDENT COMMON WIRE LOOPED TO THE VALVES CONNECTED TO IT.
- REMOTE CONTROL VALVE WIRES ARE TO BE IN A SEPARATE TRENCH 5' FROM MAIN LINE ON NORTH OR WEST SIDE OF MAINLINE.
- ALL REMOTE CONTROL VALVE WIRES NEED TO BE LABELED AT VALVE W/ WEATHER (WATER) PROOF LABELS AND AT CONTROLLER WITH CORRESPONDING LABEL (LETTER AND NUMBER TAGS IN SEQUENTIAL ORDER WILL BE PROVIDED).
- SPLICING OF REMOTE CONTROL VALVE WIRES IS NOT ALLOWED BETWEEN CONTROLLER & VALVE BOX FOR WIRES MUST BE CONTINUOUS FROM CONTROLLER TO REMOTE CONTROL VALVE WITHOUT SPLICING.
- ALL SPRINKLER HEADS SHALL BE ON STAINLESS STEEL RISERS WITH CHECK VALVE.
- CONTRACTOR SHALL PROVIDE SLEEVES FOR NEW IRRIGATION LINES CROSSING UNDER CONCRETE SIDEWALKS. SLEEVES SHALL BE 2 TIMES THE PIPE SIZE EXTENDED 24" BEYOND EDGE OF SURFACE, BE WRAPPED WITH MINIMUM 4 MIL PLASTIC AND TAPED WITH 3M BRAND HEAVY DUTY PLASTIC.

NOTES FOR PLANTING

- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PREVENT PLANTS FROM FALLING OR BEING BLOWN OVER AND TO STRAIGHTEN OR REPLANT ALL PLANTS WHICH ARE DAMAGED DUE TO WIND. PLANTS BLOWN OVER BY HIGH WINDS SHALL NOT BE A CAUSE FOR ADDITIONAL EXPENSE TO THE OWNER, BUT SHALL BE THE FINANCIAL RESPONSIBILITY OF CONTRACTOR.
- TOPSOIL MATERIAL FOR PLANTING, SHALL BE FREE FROM HARD CLODS, STIFF CLAY, HARD PAN, STONES LARGER THAN 1" IN DIAMETER, NOXIOUS WEEDS AND PLANTS, SOD, PARTIALLY DISINTEGRATED DEBRIS, INSECTS OR ANY OTHER UNDESIRABLE MATERIAL PLANTS OR SEEDS THAT WOULD BE TOXIC OR HARMFUL TO GROWTH.
- CONTRACTOR IS RESPONSIBLE FOR VERIFICATION OF PLANT MATERIAL QUANTITIES.
- IN THE EVENT OF VARIATION BETWEEN QUANTITIES SHOWN ON THE PLANT LIST AND THE PLANS, THE PLANS SHALL CONTROL. PLANT COUNT MADE BY THE LANDSCAPE CONTRACTOR SHALL BE NO CAUSE FOR ADDITIONAL COSTS TO THE OWNER.
- THE CONTRACTOR SHALL MEET BOTH THE CONTAINER SIZE AND CALIPER SIZE, AS WELL AS HEIGHT AND SPREAD SPECIFICATIONS SPECIFIED.
- EXCAVATE TWO TIMES GREATER THAN THE ROOT BALL-DIAMETER OF THE SHRUB, TWO TIMES GREATER THAN THE ROOT BALL FOR TREES. SCARIFY BOTTOM OF PLANTING PIT BEFORE PLACING PLANT. PLACEMENT OF PLANT SHALL BE PERPENDICULAR TO GROUND. CONTRACTOR WILL NOT PLANT MATERIAL SHOWN ON PLANS WHEN IT IS EVIDENT THAT FIELD CONDITIONS HAVE CHANGED SINCE PLANS WERE DRAWN. ANY CHANGES ARE TO BE BROUGHT TO THE ATTENTION OF THE LANDSCAPE DESIGNER BEFORE ANY PLANTING IS DONE IN THE AREA.
- PLANT SUBSTITUTIONS WILL BE PERMITTED, REQUEST SUBSTITUTION IN WRITING GIVING REASONS FOR SUCH SUBSTITUTIONS.
- TURF QUANTITY TAKE-OFF ARE THE RESPONSIBILITY OF THE CONTRACTOR.
- TREAT ALL PLANTING AREAS WITH AN APPLICATION OF SURF. FOLLOW MANUFACTURER'S INSTRUCTIONS FOR APPLICATION.
- REMOVE ALL WIRE, STRING, WIRE BASKETS, BURLAP, CONTAINERS, ETC., FROM THE ROOTBALL OF PLANTS BEFORE BACKFILLING THE PLANTING HOLE.
- SEEDED AREAS SHOULD BE MAINTAINED UNTIL A FULL GROWTH OF WILD GRASS OR SEEDED MATERIAL IS ACHIEVED.
- WARRANTY FOR THE PLANTING MATERIAL SHALL BE ONE YEAR FROM THE DATE OF ACCEPTANCE. (TREES, SHRUBS AND GROUNDCOVER).

PLAYGROUND & SWING EQUIPMENT NOTES

- EQUIPMENT AND COMPONENTS TO BE IPEMA CERTIFIED.
- EQUIPMENT MANUFACTURER TO COMPLY WITH ISO 9001.
- EQUIPMENT MANUFACTURER TO PROVIDE CLEAR INSTALLATION MANUAL AND PROJECT LAYOUT AT THE COMPLETION OF PROJECT HARD COPY.
- EQUIPMENT AND FALL SURFACING MUST COMPLY WITH CURRENT STANDARDS AND GUIDELINES.
- EQUIPMENT TO CALLED OUT WITH LENGTHS FOR OVERHEAD ACTIVITIES, SPACING BETWEEN RAILS FOR CURLY CLIMBERS, TRACK RIDES, ETC.
- EQUIPMENT TO HAVE SAFETY TOP RAIL WITH A MINIMUM OF 72 INCHES AT CLIMBING OR SLIDING ELEMENTS.
- EQUIPMENT MANUFACTURER SALES REPRESENTATIVE TO BE NFPS CERTIFIED.
- EQUIPMENT INSTALLATION TO BE INSPECTED AND CERTIFIED FOR PROPER ASSEMBLY BY MANUFACTURER REPRESENTATIVE NFPS CERTIFIED.
- EQUIPMENT MUST BE SUPERSEDED BY SUBMITTAL PACKETS THAT HAVE THE FOLLOWING INFORMATION FOR REVIEW AND RELEASE BY PROJECT DESIGNER AND PARK AND RECREATION STAFF:
 - PROJECT SITE PLAN REFLECTING CONSTRUCTION DRAWINGS OR ACTUAL FIELD CONDITIONS
 - SITE PLAN WITH CONSTRUCTION POINTS.
 - SITE PLAN WITH DIMENSIONS FOR ALL USE ZONES AND BETWEEN INDEPENDENT PIECES OF EQUIPMENT.
 - LOCATION OF CONTAINMENT WALL OR CURB.
 - LOCATION, LIMITS AND DIMENSIONS OF ACCESSIBLE PATH OF TRAVEL
 - LOCATION OF ANY SHADE CANOPIES AS APPLICABLE.
 - EQUIPMENT COLOR SELECTION CHART.
 - EQUIPMENT INFORMATION INCLUDING INSTALLATION.
- MANUFACTURER TO PROVIDE A SEALED MAINTENANCE KIT TO INCLUDE: TOOL BOX, SAND PAPER, OWNER'S MANUAL, HARDWARE (20 PIECES EACH MINIMUM) ASSORTED SIZES OF VANDAL PROOF NUTS, BOLTS, WASHERS, FASTENING TOOLS (ONE EACH SIZE - WRENCH AND CHUCK KEYS), 4CANS OF PRIMER, 2 CANS OF EACH COLOR OF TOUCH-UP PAINT, PLASTIC REPAIR KIT, ANTI-GRAFFITI REMOVER.
- EQUIPMENT INSTALLATION TO BE PERFORMED BY CONTRACTOR MEETING THE FOLLOWING REQUIREMENTS (i. AND j. ARE INSTALLATION EXPERIENCE REQUIREMENTS THAT MUST BE MET, k. AND l. ARE OPTIONAL REQUIREMENTS THAT MAY BE SUBSTITUTED FOR EITHER i. OR j.).
 - MINIMUM 8 YEARS EXPERIENCE INSTALLING SAME EQUIPMENT.
 - COMPLETE GOOD QUALITY INSTALLATION OF A MINIMUM OF 20 STRUCTURES OF SAME OR SIMILAR SIZE.
 - TRAINING AND CERTIFICATION BY EQUIPMENT MANUFACTURER.
 - NFPS CERTIFICATION.
- EQUIPMENT AND FALL SURFACES TO BE AUDITED AND TESTED BY AN INDEPENDENT EQUIPMENT INVENTORY, AND PLAN VIEW WITH DIMENSIONS OF PLAYGROUND IMPROVEMENTS, EQUIPMENT MANUFACTURER, AND FALL SURFACES MANUFACTURER WITH TOLL FREE NUMBERS. ANY ITEMS FOUND DEFICIENT IN AUDIT MUST BE CORRECTED AND A RE-AUDIT OF CORRECTED ITEM TO INSURE THAT ALL DEFICIENT ITEMS ARE ADDRESSED.
- PLAYGROUND AREA TO BE FENCED AND PROPERLY SECURED THROUGHOUT, COURSE OF CONSTRUCTION AND UP TO ACCEPTANCE PROJECT.
- EQUIPMENT TO HAVE MINIMUM 72" SAFETY USE (FALL) ZONE ASTM1487-11.
- CONSTRUCTION WORK ON PLAYGROUND AREA WILL NOT COMMENCE UNTIL ALL MATERIALS AND SUPPLIES ARE IN POSSESSION OF CONTRACTORS.
- CONTRACTOR WILL INSURE THAT WORK PROGRESS WILL BE ONGOING AND JOB SITE WILL NOT BE LEFT ABANDONED FOR ANY TIME PERIOD GREATER THAN 48 HOURS.
- CONTRACTOR WILL INSURE THAT JOB SITE IS KEPT CLEAN AND CLEAR OF ANY CONSTRUCTION DEBRIS ON A DAILY BASIS.
- CUSTOM SIGN TO BE FURNISHED BY PLAYGROUND MANUFACTURER WITH INFORMATION ON AGE APPROPRIATE USE, ADULT SUPERVISION RECOMMENDED, MANUFACTURER'S NAME AND 1-800 PHONE NUMBER, CITY OF EL PASO MAINTENANCE PHONE NUMBER OF (915) 621-6791 AND "WARNING" INSTALLATION OVER HARD SURFACE NOTICE. THE SPECIFIC VERBIAGE CAN BE WORKED OUT DURING PROJECT CONSTRUCTION.

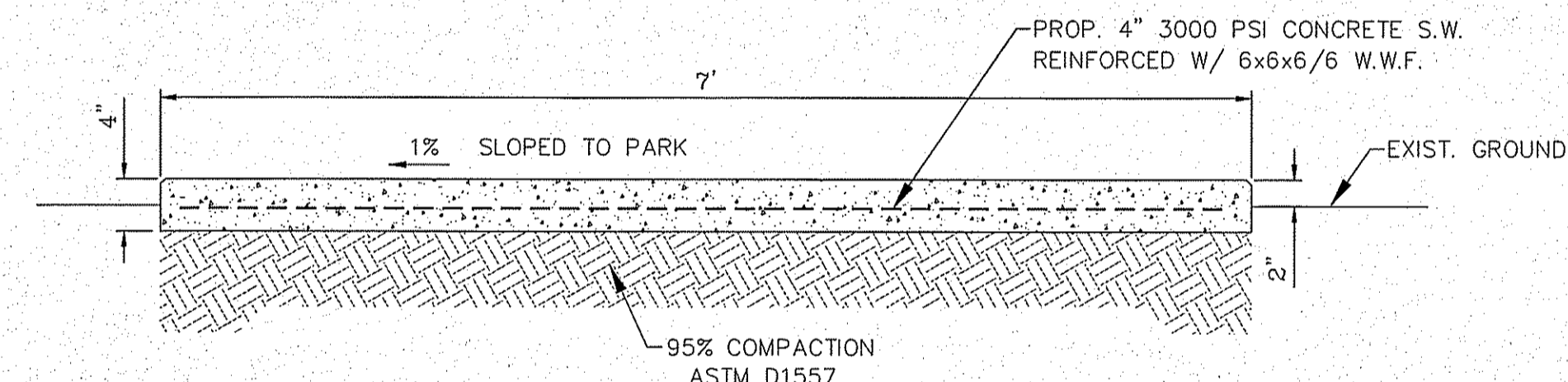


SODDING NOTES

- SUBMIT THE FOLLOWING:**
- SOD CERTIFICATION FOR GRASS SPECIES AND NAME AND LOCATION OF SOD SOURCE. SODDING SCHEDULE, INCLUDING DATES AND TYPE OF WORK TO BE PERFORMED. PRIOR TO ORDERING, NAME OF SUPPLIER OF SOIL AMENDMENTS MATERIALS.
 - MINIMUM AGE 18 MONTHS, WITH ROOT DEVELOPMENT THAT WILL SUPPORT ITS OWN WEIGHT WITHOUT TEARING, WHEN SUSPENDED VERTICALLY BY HOLDING THE UPPER TWO CORNERS.
 - TIME DELIVERY SO THAT SOD WILL BE PLACED WITHIN 24 HOURS OF DELIVERY AT SITE. PROTECT AGAINST DRYING AND BREAKING OF ROLLED STRIPS.
 - DELIVER PACKAGED MATERIALS IN CONTAINERS SHOWING WEIGHT, ANALYSIS AND NAME OF MANUFACTURER. PROTECT MATERIALS FROM DETERIORATION DURING DELIVERY AND WHILE STORED ON SITE.
 - PROCEED WITH AND COMPLETE LANDSCAPE WORK AS RAPIDLY AS PORTIONS OF SITE BECOME AVAILABLE, WORKING WITHIN SEASONAL LIMITATIONS FOR EACH KIND OF LANDSCAPE WORK REQUIRED.
 - WHEN CONDITIONS DETRIMENTAL TO PLANT GROWTH ARE ENCOUNTERED, SUCH AS RUBBLE FILL, ADVERSE DRAINAGE CONDITIONS, OR OBSTRUCTIONS CONSULT THE LANDSCAPE DESIGNER AND CITY OF EL PASO PARKS AND RECREATION BEFORE PLANTING.
 - PLANT OR INSTALL MATERIALS DURING NORMAL PLANTING SEASONS FOR EACH TYPE OF LANDSCAPE WORK REQUIRED. CORRELATE PLANTING WITH SPECIFIED MAINTENANCE PERIODS TO PROVIDE MAINTENANCE FROM DATE OF FINAL ACCEPTANCE.
- SOIL AMENDMENTS**
- PROVIDE SOIL ANALYSIS BEFORE ADDITION OF SOIL AMENDMENTS & ANALYSES OF SOIL AMENDMENTS ORGANIC AMENDMENTS SHALL CONSIST OF WELL-AGED ORGANIC COMPOST OR APPROVED EQUAL.
 - FERTILIZER
 - SLOW-RELEASE STARTER FERTILIZER ANALYSIS AS RECOMMENDED BY LANDSCAPE ARCHITECT BY WEIGHT AT A RATE OF 1 LB OF ACTUAL NITROGEN PER 1,000 SQUARE FEET BY WEIGHT.
- GRASS MATERIALS**
- PROVIDE STRONGLY ROOTED SOD, NOT LESS THAN 18 MONTHS OLD AND FREE OF WEEDS AND UNDESIRABLE NATIVE GRASSES AND MACHINE CUT TO PAD THICKNESS OF 3/4 INCH (PLUS OR MINUS 1/4 INCH), EXCLUDING TOP GROWTH AND THATCH. PROVIDE SOD CAPABLE OF GROWTH AND DEVELOPMENT WHEN PLANTED. CUT SOD PIECES A MINIMUM OF 18 INCHES WIDE.
- PREPARATION**
- PRIOR TO START OF SOIL PREPARATION ALL FINISH GRADES SHALL BE ESTABLISHED AND APPROVED AS MEETING THE REQUIREMENTS OF THE GRADING PLAN. APPLY A UNIFORM ONE-INCH LAYER (3 C.Y./1000 SQUARE FEET) OF ORGANIC SOIL AMENDMENT, AFTER APPLICATION OF ORGANIC AMENDMENT AND STARTER FERTILIZER ALL AREAS TO BE SODDED SHALL BE THOROUGHLY ROTOTILLED TO A MINIMUM DEPTH OF 12 INCHES. AFTER ROTOTILLING IS COMPLETE AT CROSS DIRECTIONS, DRAG AND LASER LEVEL TO AN EVEN GRADE, THEN ROLL FOR FIRMNESS. RAKE TILLED AREA AND REMOVE STONES OVER 1 INCH IN ANY DIMENSION, STICKS, ROOTS, RUBBISH AND OTHER EXTRANEOUS MATTER. ROLL ENTIRE AREA WITH WEIGHTED HAND ROLLER.

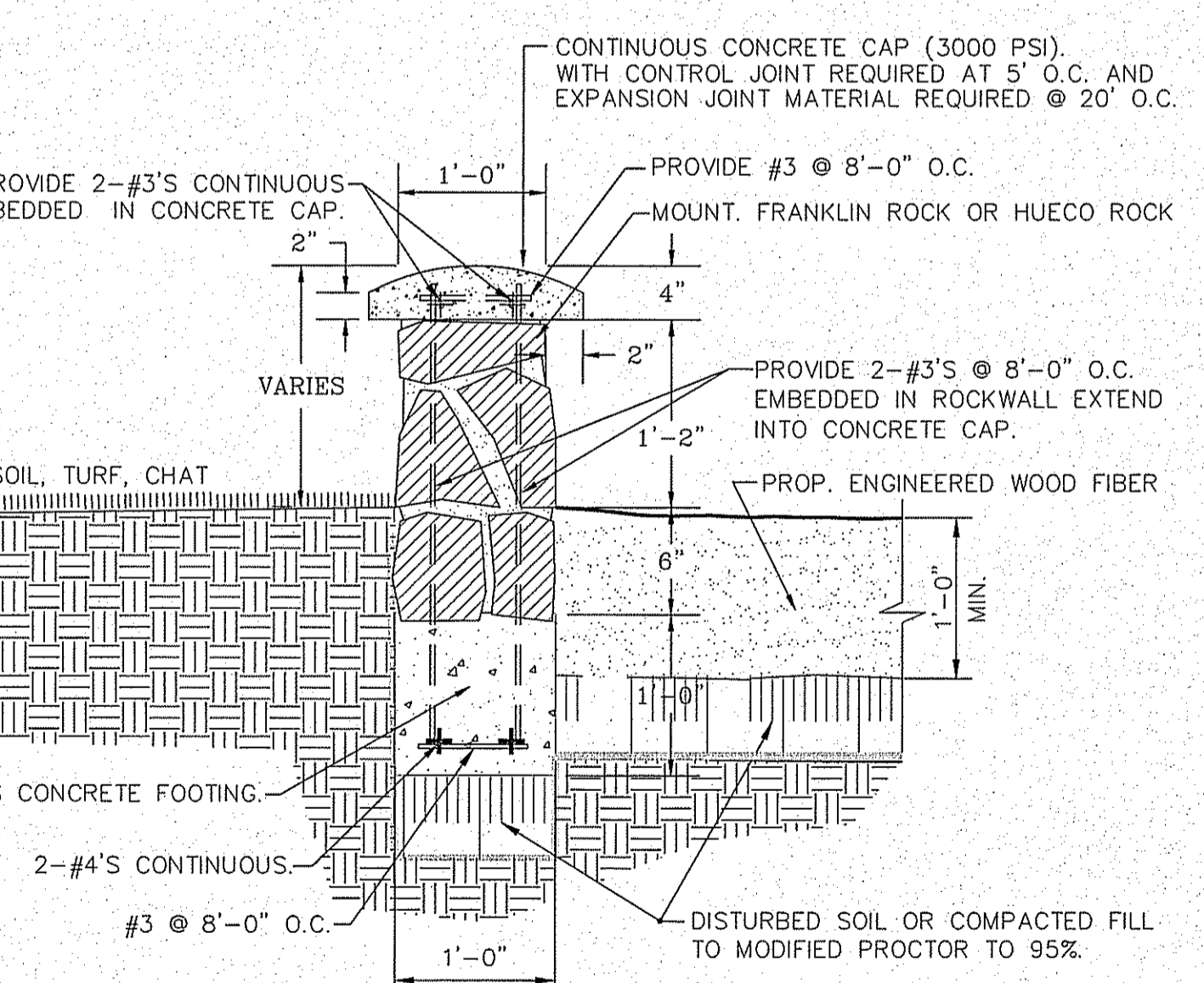
SODDING OPERATIONS

- LAY SOD WITHIN 24 HOURS OF DELIVERY AT SITE. DO NOT PLANT DORMANT SOD OR ON FROZEN GROUND.
- IF SOIL IS DRY MOISTEN AREAS BEFORE SODDING. WATER THOROUGHLY AND ALLOW SURFACE MOISTURE TO DRY. DO NOT CREATE A MUDDY SOIL CONDITION.
- REMOVE FIBER MESH USED BY SOD FARM TO TRANSPORT SOD ROLLS AS SOD IS BEING INSTALLED.
- LAY SOD TO FORM A SOLID MASS WITH TIGHTLY FITTED JOINTS. NO JOINT SHALL BE MORE THAN 1/8" OVER MOISTENED SOIL. LIGHTLY RAKING THE SOIL AHEAD OF EACH SOD STRIP. BUTT ENDS AND SIDES OF SOD STRIPS. DO NOT OVERLAP. STAGGER STRIPS TO OFF-SET JOINTS IN ADJACENT COURSES. LAY SOD PARALLEL TO CONTOURS OF SLOPE. WORK FROM BOARDS TO AVOID DAMAGE TO SUBSOIL OR SOD. TAMP FIRMLY AND EVENLY BY HAND TO ENSURE CONTACT WITH SUBSOIL. WATER SIFTED TOPSOIL OR SAND INTO MINOR CRACKS BETWEEN PIECES OF SOD. WATER SOD THOROUGHLY WITH A FINE SPRAY IMMEDIATELY AFTER PLANTING.
- BEGIN MAINTENANCE IMMEDIATELY AFTER PLANTING.
- MAINTAIN LAWNS FOR NOT LESS THAN A PERIOD OF AT LEAST 60 DAYS AFTER COMPLETION AND ACCEPTANCE OF SOD. INSPECTION TO DETERMINE ACCEPTANCE OF SODDED LAWNS WILL BE MADE BY PARKS STAFF AND SITES SOUTHWEST REPRESENTATIVE UPON CONTRACTOR'S REQUEST. PROVIDE NOTIFICATION AT LEAST 10 WORKING DAYS BEFORE REQUESTED INSPECTION DATE, AND LONGER AS REQUIRED TO ESTABLISH AN ACCEPTABLE LAWN.
- SODDED LAWNS TO BE MAINTAINED NOT LESS THAN 60 DAYS AFTER COMPLETION AND ACCEPTANCE OF SODDING OPERATIONS.
- MAINTENANCE TO INCLUDE: WATER SOD THOROUGH EVERY 2 TO 3 DAYS MIN. AS REQUIRED TO ESTABLISH PROPER ROOTING. REPAIR, REWORK AND RESOD AREAS THAT HAVE WASHED OUT OR ERODED. REPLACE DEAD OR UNDESIRABLE SOD SECTIONS WITH NEW SOD. MOW LAWN AREAS WHEN THE GRASS IS OVER 2 INCHES HIGH FOR FIRST CUTTING. FERTILIZE LAWN WITH TOP DRESSING FERTILIZER AT 1 LB. PER 1,000 SQ.FT. OF NITROGEN, WATER THOROUGHLY.
- ADDITIONAL LAWN MAINTENANCE CONSISTS OF WEEDING, TRIMMING AND OTHER OPERATIONS SUCH AS ROLLING, REGRADING AND REPLANTING AS REQUIRED TO ESTABLISH A SMOOTH, ACCEPTABLE LAWN, FREE OF ERODED OR BARE AREAS.
- CLEANUP AND PROTECTION
- DURING THE WORK, KEEP PAVEMENTS CLEAN AND WORK AREA IN AN ORDERLY CONDITION.
- PROTECT WORK AND MATERIALS FROM DAMAGE DUE TO SODDING OPERATIONS, OPERATIONS BY OTHER CONTRACTORS AND TRADES AND TRESPASSERS. MAINTAIN PROTECTION DURING INSTALLATION AND MAINTENANCE PERIODS. TREAT, REPAIR OR REPLACE DAMAGED WORK AS DIRECTED.
- INSPECTION AND ACCEPTANCE
- WHEN INSPECTED WORK DOES NOT COMPLY WITH REQUIREMENTS, REPLACE REJECTED WORK AND CONTINUE SPECIFIED MAINTENANCE UNTIL REINSPECTED BY THE LANDSCAPE DESIGNER AND CITY OF EL PASO PARKS AND RECREATION AND FOUND TO BE ACCEPTABLE. REMOVE REJECTED SOD AND MATERIALS PROMPTLY FROM PROJECT SITE.



SIDEWALK NOTES:

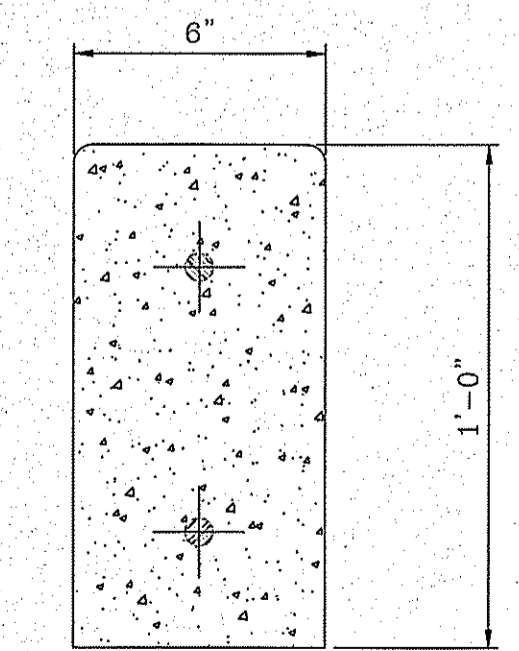
- CONCRETE SHALL BE 3000 PSI MINIMUM.
- CONTROL JOINT REQUIRED AT 5' O.C. FOR SIDEWALKS OR AS SHOWN ON THE PLANS.
- CONTROL JOINTS SHALL BE 1/8" THICK AND 1" DEEP.
- EXPANSION JOINT MATERIAL REQUIRED @ 20' O.C. FOR SIDEWALKS OR AS SHOWN ON PLANS.
- DO NOT CROSS REINFORCEMENT THRU EXPANSION MATERIAL.
- PROVIDE EXPANSION JOINT MATERIAL WHERE SIDEWALKS MEET, EXISTING SIDEWALKS AND CURBS.



PLAYGROUND ROCKWALL DETAIL

ROCKWALL NOTES:

- STONE FOR ROCKWALL SHALL BE AS NEARLY UNIFORM IN SECTION AS IS PRACTICABLE. THE STONE SHALL BE DENSE AND RESISTANT TO AIR AND WATER.
- MORTAR SHALL BE TYPE "S" 1800 P.S.I. AS PER ASTM C270-73. MORTAR SHALL CONSIST BY VOLUME OF 1 PART PORTLAND CEMENT, 3 1/2 PARTS OF CLEAN, HARD, DURABLE SAND AND 1/4 PART (MORTAR) LIME THOROUGHLY MIXED WITH WATER.
- ROCKWALL MORTAR JOINTS SHALL NOT EXCEED 3/4" TO 1 1/4".
- STONE SHALL BE CLEANED, FREE OF DIRT PRIOR TO INSTALLATION.
- NO RIVER ROCK SHALL BE ALLOWED FOR ROCKWALLS.

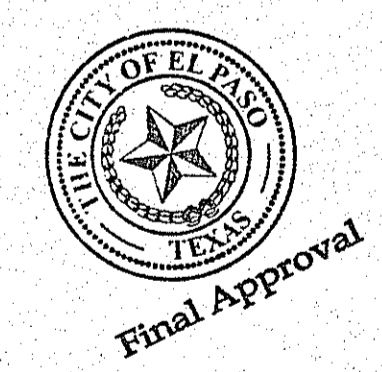


HEADER CURB DETAIL AND NOTES:

- HEADER CURBS SHALL BE 3,000 PSI CONCRETE STRENGTH.
- HEADER CURBS HAND POURED AND PLACED SHALL INCLUDE:
 - 2 CONTINUOUS #4 REBARS.
 - WITH 1/2 INCH EXPANSION JOINTS EVERY 20.0 FEET AND CONTROL JOINTS EVERY 5.0 FEET, AND A BROOM FINISH.
- HEADER CURBS MACHINE INSTALLED SHALL INCLUDE:
 - 2.0 POUNDS OF LONG FIBERGLASS MESH CUBIC YARD.
 - WITH 1/2 INCH EXPANSION JOINTS EVERY 20.0 FEET AND CONTROL JOINTS EVERY 5.0 FEET, AND A BROOM FINISH.

PARKS DEPARTMENT

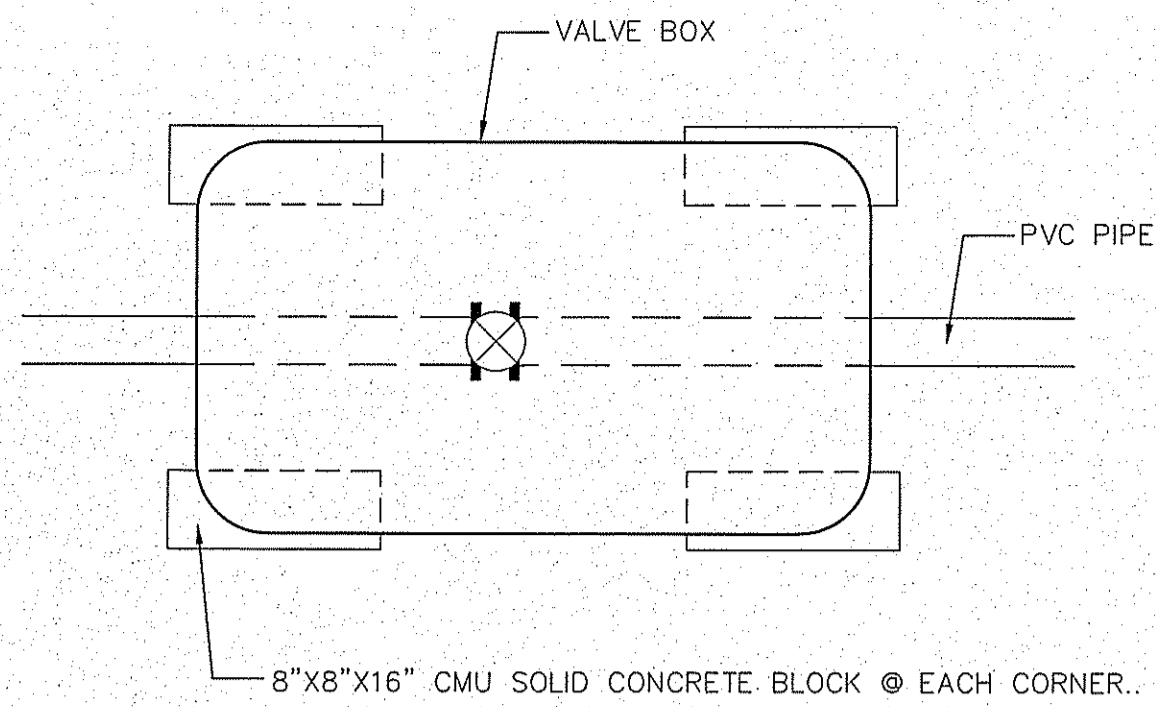
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BENCHMARK	DATE	11/2/16	REVISIONS AS PER CITY COMMENTS 10/28/16
	BY	E.J.	
PROJECT NAME	PROPOSED MESQUITE HILLS 8 WHITE MESQUITE PARK 6940 COPPER TOWN DR. BEING ALL OF LOTS UNIT 8, 9, 10, MESQUITE HILLS UNIT 8, 9, 10. 78.8866 91 S.F. OR 1.813 ACRES		
SCALES	HORIZ. NTS	VERT. NTS	
DATE	JUNE 2016		
DESIGN BY	R.M.		
INITIATED BY	E.J.		
CHECKED BY	R.M.		
JOB NO.	218-33		
REGULATOR'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	LANDSCAPE AND IRRIGATION DETAILS		
SHT	L6	OF	L11

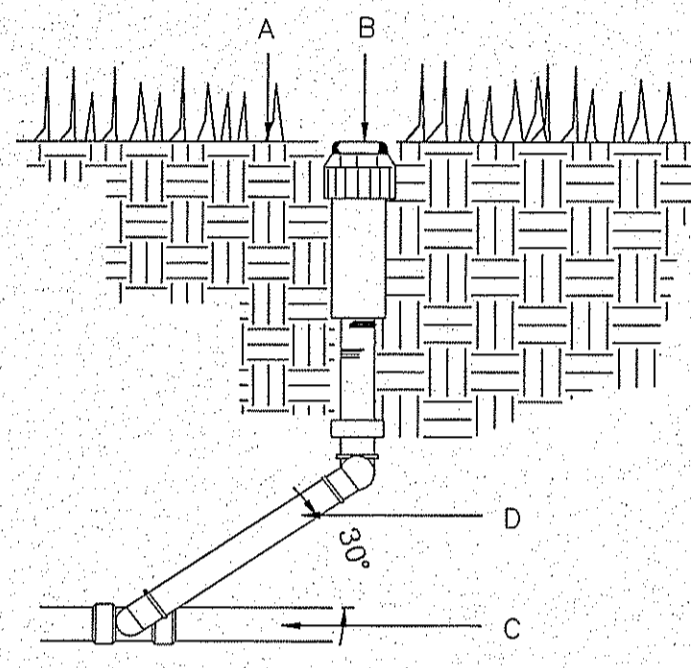
FILE LOCATION S:\LANDSCAPE\MESQUITE HILLS 8\LXI DETAILS PLOTTED ON Wednesday, November 16, 2016 11:04:36 AM BY ESTEBAN JUAREZ

FILE LOCATION S:\LANDSCAPE\MESQUITE HILLS 8_L&I DETAILS PLOTTED ON Wednesday, November 16, 2016 11:04:47 AM BY ESTEBAN JUAREZ



NOTE: BLOCKS TO SIT ON WEED CLOTH ON UNDISTURBED SOIL. DISTURBED SOILS SHALL BE COMPACTED WITH TAMPER PRIOR TO SETTING WEED CLOTH & BLOCKS. VALVE BOX AND EXTENSIONS TO SIT ON BLOCKS. VALVE BOX AND EXTENSIONS TO HAVE A MINIMUM 2" CLEARANCE TO THE TOP OF PVC PIPE.

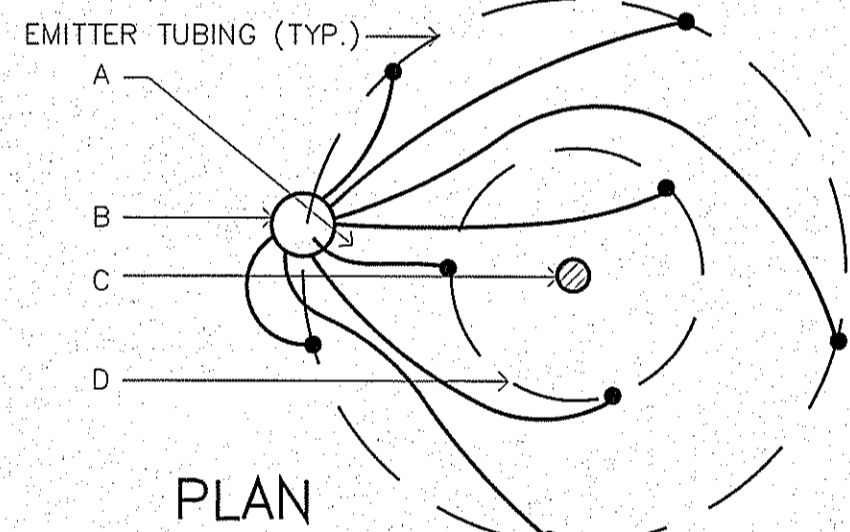
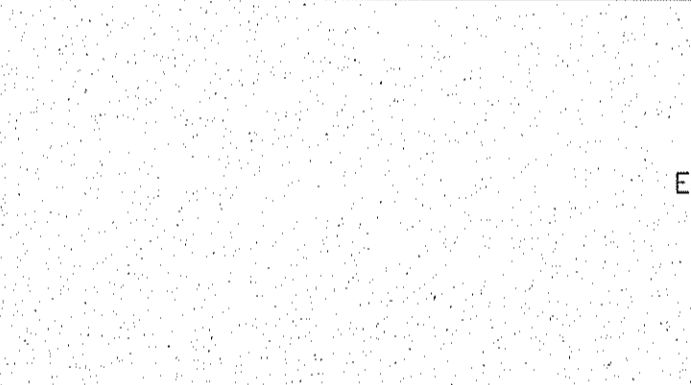
BRICK PLACEMENT ON VALVE BOXES
NTS



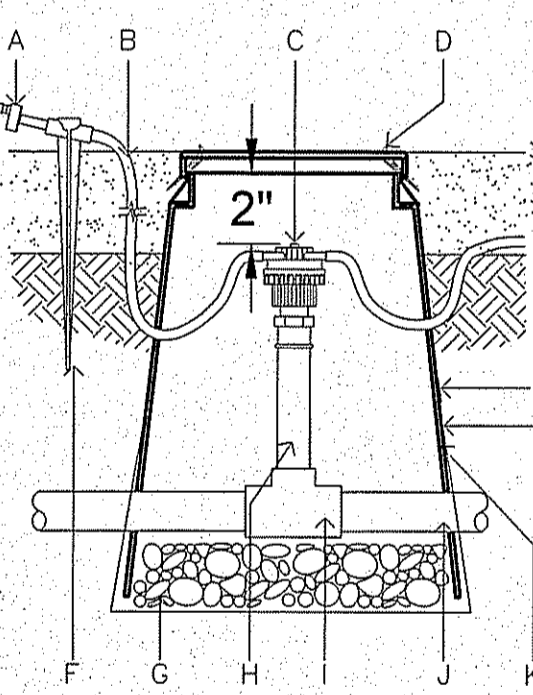
A. FINISH GRADE.
B. SPRINKLER HEAD (SEE PLAN).
C. LATERAL LINE (SEE PLAN).
D. LASCO PRE-ASSEMBLED SWING JOINT.

THIS DETAIL SHALL BE USED FOR POP-UP SPRAY, POP-UP LAWN SPRAY, GEAR DRIVEN AND ROTARY SPRINKLER HEADS. TOP OF SPRINKLER HEAD SHALL BE SET FLUSH WITH FINISH GRADE. SWING JOINT INSTALLATION TO COMPLY WITH MANUFACTURER'S RECOMMENDATION.

IRRIGATION SPRINKLER HEAD
NTS



SECTION



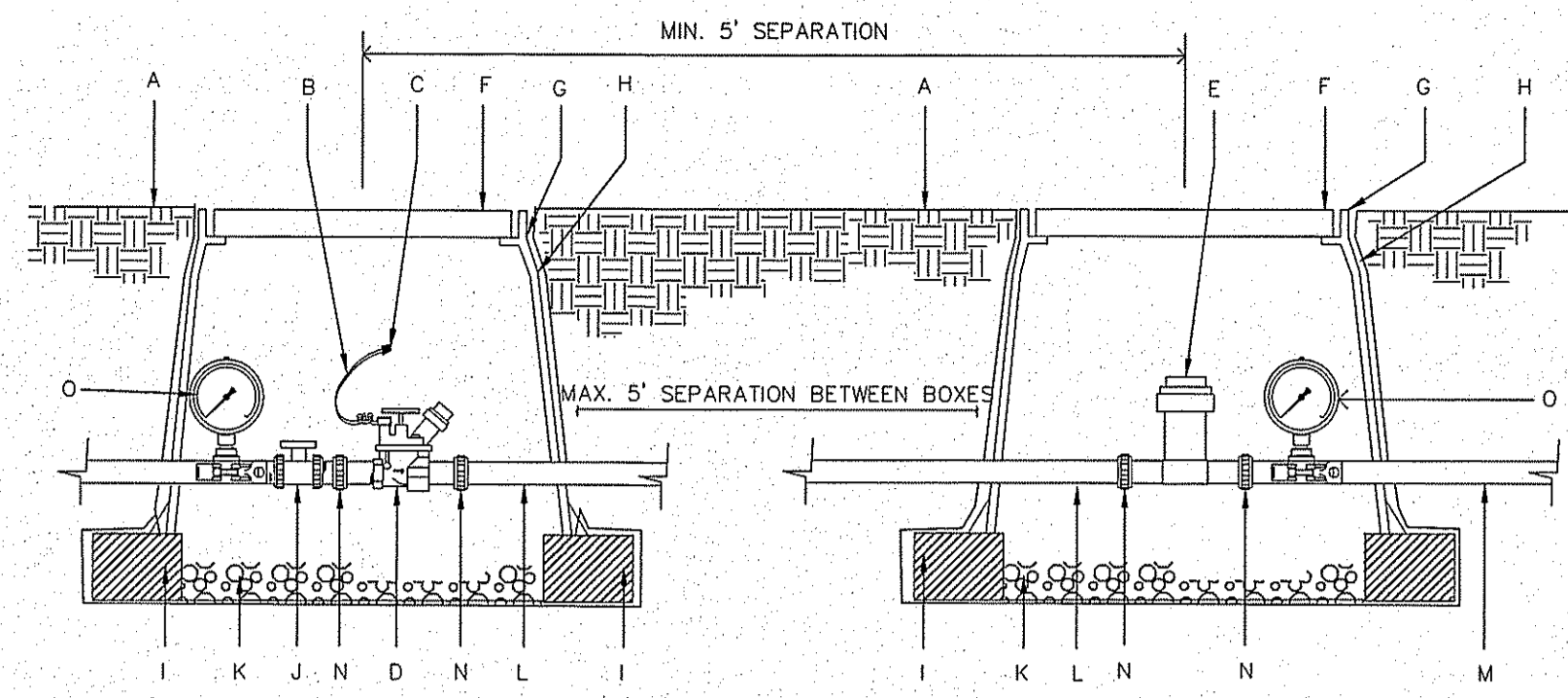
INSTALL (8) EMITTERS PER TREE. SPACE EVENLY AROUND ROOTBALL IN OFFSET TRIANGULAR PATTERN FOR TREES. SEE IRRIGATION LEGEND FOR OUTLET EMITTER SIZE.

A. EMITTER TUBING.
B. MULTI OUTLET EMITTER DEVICE. INSTALL 5' FROM TREE TRUNK ON WEST SIDE.
C. TREE TRUNK.
D. TREE ROOTBALL.

- A. SINGLE-OUTLET EMITTER: SEE IRRIGATION LEGEND (BARB ONLY).
- B. 1/4-INCH TUBING: POLYETHYLENE DISTRIBUTION TUBING.
- C. 8-OUTLET DISTRIBUTION MANIFOLD: SEE IRRIGATION LEGEND.
- D. INSTALL 2-#8, 2" LONG SELF TAPING BRASS SCREWS.
- E. FINISH GRADE.
- F. 1/4-INCH TUBING STAKE: RAIN BIRD TS-025.
- G. 3" MIN. DEPTH OF 3/8" WASHED PEA GRAVEL.
- H. SCH. 80 THREADED NIPPLE, LENGTH AS NEEDED.
- I. TEE OR ELL TO PVC OR POLYETHYLENE PIPE SEE PLAN.
- J. PVC OR POLYETHYLENE LATERAL PIPE, SEE PLAN.
- K. CARSON 9" ROUND SUBTERRANEAN EMITTER BOX, COVER TO MATCH COLOR OF FINISHED MATERIAL (GREEN IN TURF AND TAN IN ROCK MULCH AREAS).

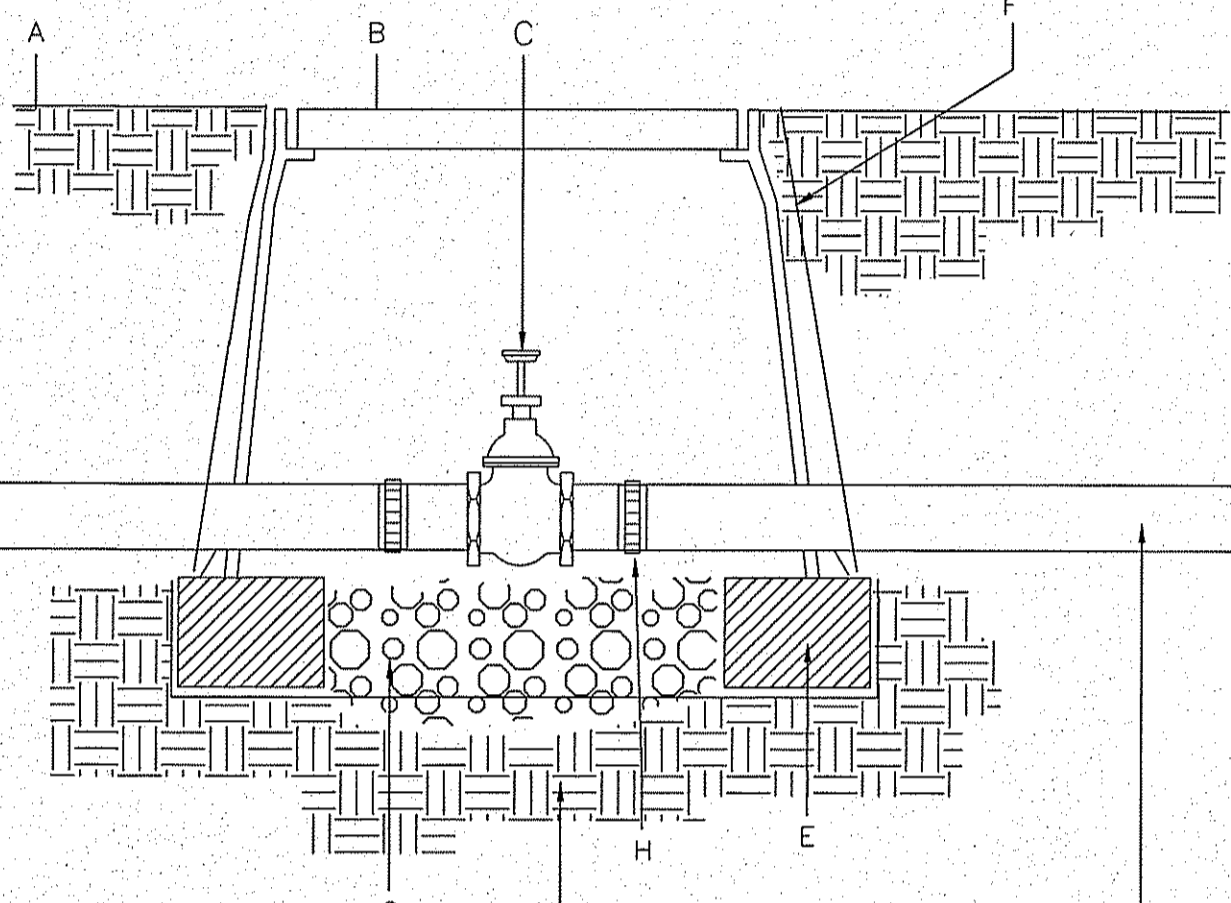
- CONSTRUCTION NOTES:
1. ENSURE SINGLE OUTLET EMITTER IS ON TOP OF THE PLANT'S ROOTBALL.
 2. LOCATE SINGLE OUTLET EMITTERS AROUND TREES AS PER PLAN DIAGRAM ABOVE.
 3. LOCATE SINGLE OUTLET EMITTERS FOR 1 GALLON & 5 GALLON ON OPPOSITE SIDES OF ROOTBALL.
 4. WEED BARRIER TO BE INSTALLED UNDER WASHED PEA GRAVEL AND WRAPPED AROUND EMITTER BOX THEN TAPE WITH ALL PENETRATIONS SEALED. USE 3M BRAND HEAVY DUTY PLASTIC TAPE.

MULTI - 8 - OUTLET EMITTER FOR TREE
NTS



DRIP VALVE/ BASKET FILTER KIT

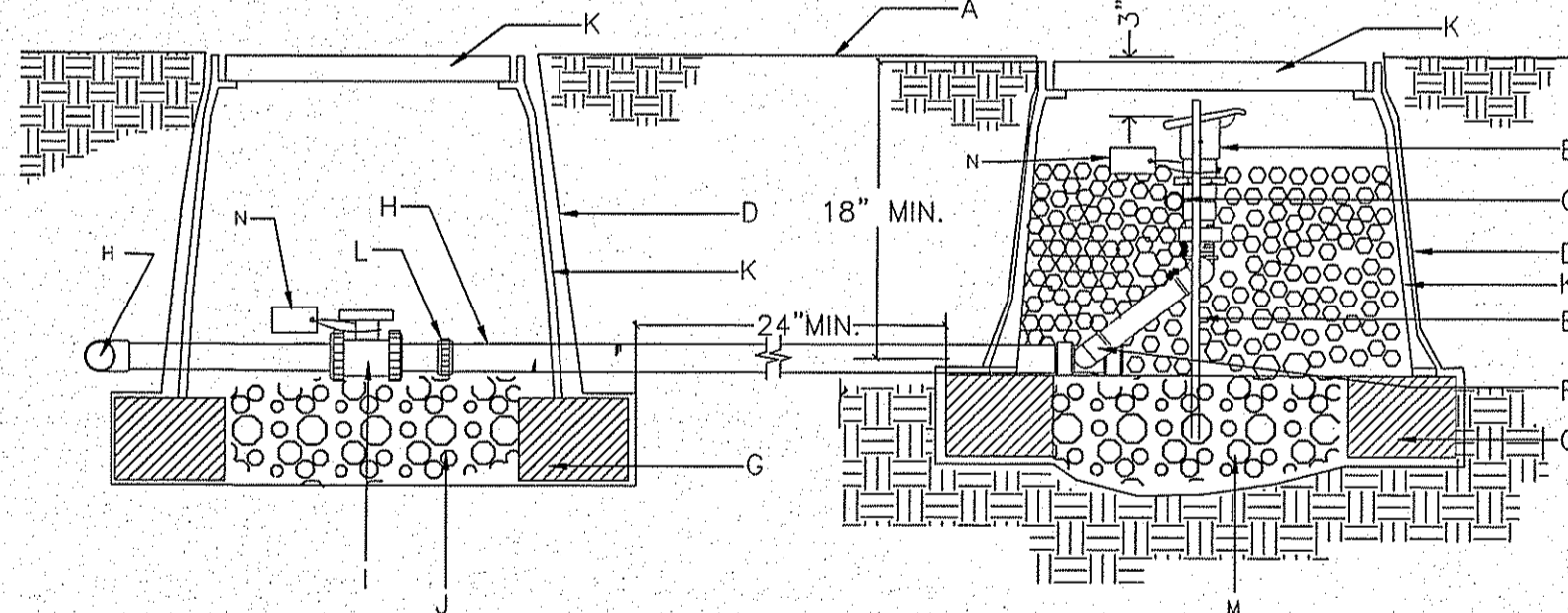
- A. FINISH GRADE.
 - B. 24" WIRE LOOP.
 - C. DRY SPlice CONNECTOR OR EQUAL.
 - D. AUTOMATIC VALVE INCLUDED IN CONTROL ZONE KIT. SEE IRRIGATION LEGEND.
 - E. BASKET FILTER STRAINER INCLUDED IN CONTROL ZONE KIT SHALL BE INSTALLED TO PROVIDE ACCESS FOR MAINTENANCE AND REPLACEMENT. SEE IRRIGATION LEGEND.
 - F. LOCKING VALVE BOX COVER FLAT LID WITH BOLT.
 - G. CARSON PRODUCTS INC. 1419-18 BODY (ABS) VALVE BOX W/BOLT DOWN COVER (COVER COLOR TO MATCH FINISH MATERIAL AND EXTENSION AS NECESSARY).
 - H. PROVIDE DEWITT PRO 5 WEED CLOTH ALONG SIDES AND BASE OF VALVE BOX AND BLOCKS TAPE TO ALL INLET & OUTLET PIPE WITH 3M HEAVY DUTY PLASTIC TAPE.
 - I. 8"x8"x16" CMU SOLID CONCRETE BLOCK @ EACH CORNER.
 - J. BALL VALVE, INCLUDED IN CONTROL ZONE KIT, SEE IRRIGATION LEGEND.
 - K. 4" LAYER OF 3/8" WASHED PEA GRAVEL.
 - L. PVC PIPE SIZED PER PLAN WITH WELD ON THREADED FITTINGS ON EACH END.
 - M. LATERAL LINE.
 - N. PROVIDE PVC UNION FOR PIPE SIZES LESS THAN THREE INCHES IN DIAMETER OR PROVIDE FLANGES FOR PIPE SIZES THREE INCHES IN DIAMETER OR LARGER.
 - O. HORIZONTAL HYGIENIC PRESSURE GAUGE.
- NOTE: PROVIDE 1 PRESSURE GAUGE ON MAIN LINE UPSTREAM OF BALL VALVE AND ANOTHER DOWNSTREAM OF KIT'S PRESSURE REGULATOR. PROVIDE 5' SEPARATION BETWEEN BOXES IF SPACE IS NOT AVAILABLE, PROVIDE A MIN. 5' SEPARATION AT CENTER LINES OF BOXES. SET GAGES HORIZONTAL TO BE READABLE.



ISOLATION VALVE
NTS

- A. FINISH GRADE.
- B. CARSON PRODUCTS INC. 1419-18(ABS) VALVE BOX WITH BOLT DOWN FLAT LID COVER TO MATCH COLOR OF FINISH MATERIAL AND 8" EXTENSIONS AS NECESSARY.
- C. BRASS ISOLATION VALVE- SEE IRRIGATION LEGEND.
- D. IRRIGATION MAINLINE.
- E. 8"x8"x16" SOLID CMU SOLID BLOCK @ EACH CORNER.
- F. PROVIDE DEWITT PRO 5 WEED CLOTH ALONG SIDES AND BASE OF VALVE BOX WITH HEAVY DUTY PLASTIC 3M TAPE.
- G. 4" DEPTH, 3/8" WASHED PEA GRAVEL.
- H. FLANGE (3" AND ABOVE) AND UNION (BELOW 3" PIPE SIZE)

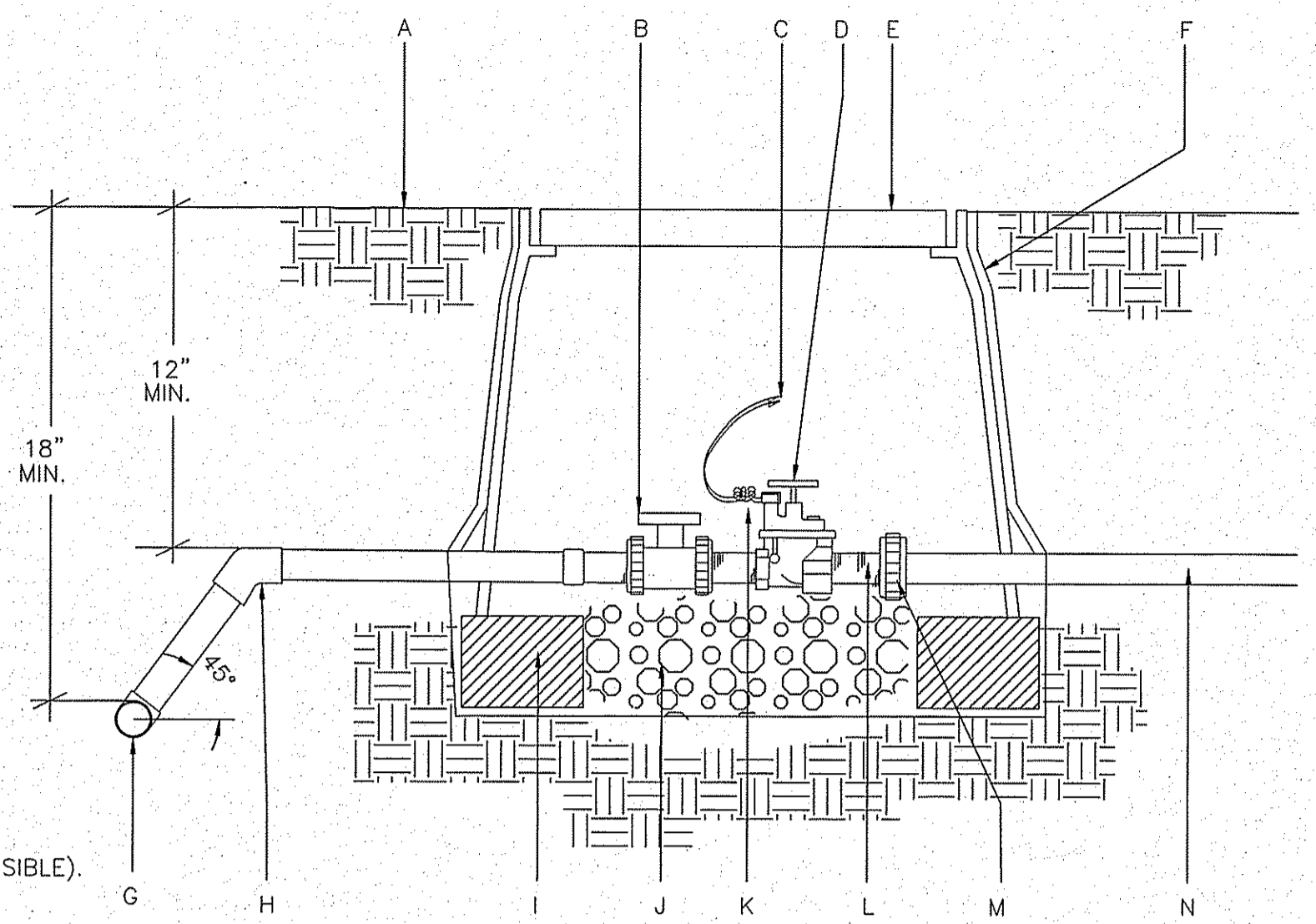
NOTE: PVC PIPE TO BE CLEAR OF VALVE BOX AND SOLID CMU BLOCK.



- A. FINISH GRADE.
- B. 1" BUCKNER QUICK COUPLER VALVE, DOUBLE SLOT, PURPLE TOP-MODEL OBSNPIO WITH LASCO SNAP-LOK W/MALE BRASS STABILIZER ELBOW.
- C. MIN. 12" SECTION 1" DIA. PVC. SECTION SHOULD EXTEND BEYOND BOTH REBAR SECTION, STABILIZE IN GRAVEL.
- D. PROVIDE DEWITT PRO 5 WEED CLOTH ALONG SIDES AND BASE OF VALVE BOX. TAPE TO ALL INLET AND OUTLET PIPE AND VALVE BOX WITH HEAVY DUTY 3M PLASTIC TAPE.
- E. 1/2" OR 3/8" REBAR, MIN. 30" LENGTH, ONE ON EITHER SIDE OF QUICK COUPLER FOR STABILITY.
- F. LASCO SWING JOINT (PRE-ASSEMBLED).
- G. 8" X 8" X 16" SOLID CMU BLOCK
- H. IRRIGATION MAINLINE
- I. ISOLATION BALL VALVE, SEE IRRIGATION LEGEND.
- J. 6" DEPTH OF 3/8" WASHED PEA GRAVEL
- K. CARSON PRODUCTS INC. 1419-18 BODY (ABS) VALVE BOX AND EXTENSION(S) W/BOLT DOWN COVER (COVER COLOR TO BE PURPLE).
- L. PROVIDE PVC UNION FOR PIPE SIZES LESS THAN THREE INCHES IN DIAMETER OR PROVIDE FLANGES FOR PIPE SIZES THREE INCHES IN DIAMETER OR LARGER.
- M. 3/8" WASHED PEA GRAVEL FILLED TO QUICK COUPLER FOR STABILITY.
- N. WEATHER PROOF TAG THAT READS: "NON-PORTABLE WATER, NOT SAFE FOR DRINKING." FLANGES FOR PIPE SIZES THREE INCHES IN DIAMETER OR LARGER.

NOTE: INSTALL AN 8" X 8" X 16" SOLID CMU BLOCK AT EACH CORNER OF THE VALVE BOX. INSTALL 3/8" PEA GRAVEL BELOW THE 1419-18 VALVE BOX WITH BOLT DOWN COVER. EXTEND PEA GRAVEL UP TO COLLAR OF QUICK COUPLER VALVE. INSTALL A TEE, FLANGE & BALL VALVE OFF OF THE MAIN LINE IMMEDIATELY UPSTREAM OF THE QUICK COUPLER

QUICK COUPLER VALVE
NTS



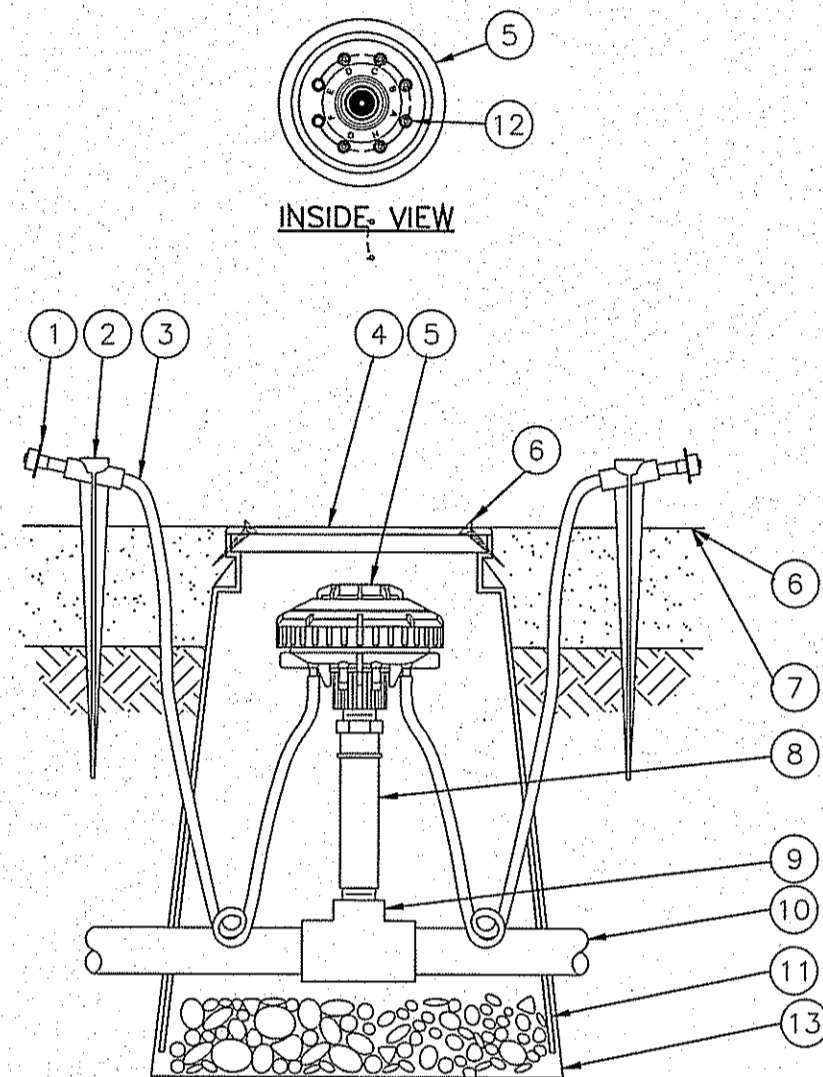
IRRIGATION CONTROL VALVE
NTS

- A. FINISH GRADE.
- B. BALL VALVE.
- C. DRY SPlice CONNECTOR OR EQUAL.
- D. ELECTRIC VALVE- SEE IRRIGATION LEGEND.
- E. CARSON PRODUCTS INC. 1419-18(ABS) VALVE BOX WITH BOLT DOWN FLAT LID COVER TO MATCH COLOR OF FINISHED MATERIAL AND 8" EXTENSIONS AS NECESSARY.
- F. PROVIDE DEWITT PRO 5 WEED CLOTH ALONG SIDES AND BASE OF VALVE BOX WITH HEAVY DUTY PLASTIC 3M TAPE.
- G. PVC MAINLINE-SEE IRRIGATION LEGEND.
- H. SCH 80 - 45 DEGREE FITTING.
- I. 8"x8"x16" SOLID CMU BLOCK @ EACH CORNER.
- J. 4" DEPTH, 3/8" DIAMETER WASHED PEA GRAVEL.
- K. 24" WIRE EXPANSION COIL, EXTEND WIRE 12" ABOVE VALVE BOX FOR SERVICE.
- L. SCHEDULE 80 PVC CLOSE NIPPLE.
- M. FLANGE (3" AND ABOVE) AND UNION (BELOW 3" PIPE SIZE)
- N. LATERAL LINE.

- 1. DIFFUSER BUG CAP- RAIN BIRD DBC-025 (1 OF 2 SHOWN, 8 POSSIBLE).
- 2. UNIVERSAL RAIN BIRD TS-025 (1 OF 2 SHOWN, 8 POSSIBLE).
- 3. 1/4" DISTRIBUTION TUBING: RAIN BIRD XQ RUBBERING STAKE: (LENGTH AS REQUIRED) (1 OF 2 SHOWN, 8 POSSIBLE).
- 4. SUBTERRANEAN EMITTER BOX: CARSON 910 SERIES(GREEN IN TURF AREAS AND TAN IN ROCK LANDSCAPE AREAS).
- 5. MULTI-8-OUTLET EMISSION DEVICE: RAIN BIRD XERI-BIRD XBD-80.
- 6. INSTALL 2 #8, 2" LONG SELF TAPING BRASS SCREWS.
- 7. FINISH GRADE.
- 8. PVC SCH 80 THREADED NIPPLE LENGTH AS NEEDED.
- 9. PVC SCH 40 TEE OR ELL.
- 10. PVC LATERAL PIPE.
- 11. 3" MINIMUM DEPTH OF 3/4" WASHED PEA GRAVEL.
- 12. SINGLE-OUTLET BARB INLET X BARB OUTLET EMITTER: RAIN BIRD XERI-BUG EMITTER.
- 13. WEED BARRIER TAPED TO EMITTER BOX AND PIPE PENETRATION TAPE TO BE 3M BRAND HEAVY DUTY PLASTIC TAPE.

- NOTES:
1. COIL ADDITIONAL 9" OF TUBING IN EMITTER BOX TO FACILITATE MAINTENANCE.
 2. RAIN BIRD XERI-BUG BARB X BARB EMITTERS, MODEL XB-20PC 2.0 GPH

MULTI - 8 - OUTLET EMITTER
NTS



BACKFLOW ENCLOSURE GENERAL NOTES:

- ASSE STANDARD #1060 (ISSUED MARCH 13, 2006)
- PERFORMANCE REQUIREMENTS FOR OUTDOOR ENCLOSURES FOR BACKFLOW PREVENTION ASSEMBLES
- SECTION 3.1.1: ENCLOSURES SHALL CONTAIN A HEAT SOURCE CAPABLE OF MAINTAINING 4°C (40°F) INSIDE THE ENCLOSURE WHEN SUBJECT 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.

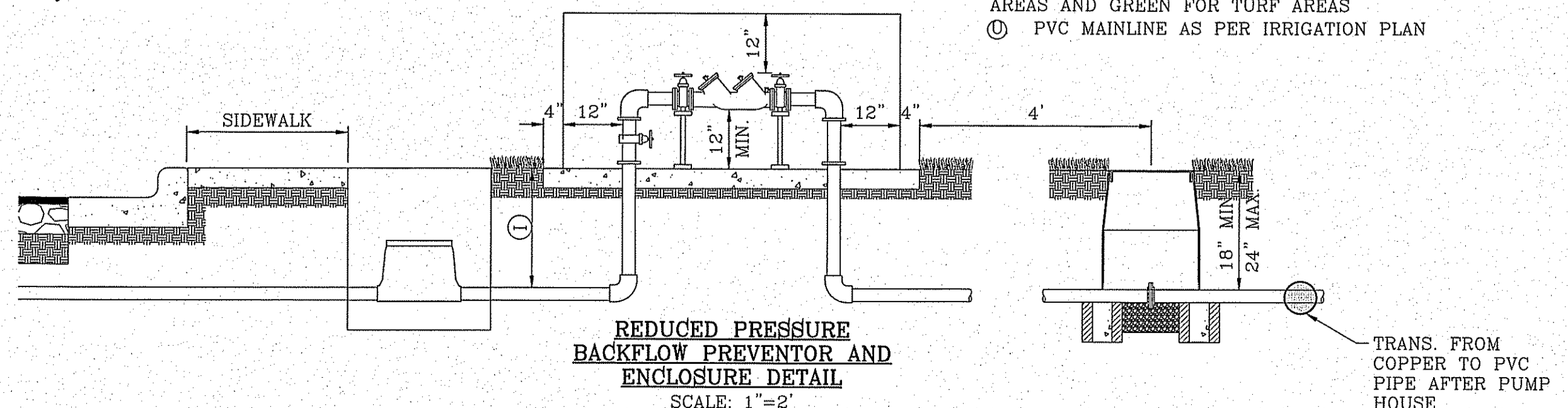
GENERAL NOTES:

1. ENCLOSURE MUST COMPLY WITH ASSE#1060 FOR BACKFLOW DEVICE.
2. DO NOT INSTALL IN FLOOD PRONE AREAS.
3. METAL RISER PIPING REQUIRED.
4. JOINTS TO BE ADEQUATELY RESTRAINED.
5. HORIZONTAL INSTALLATION REQUIRED AS SHOWN.
6. RBPB 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.

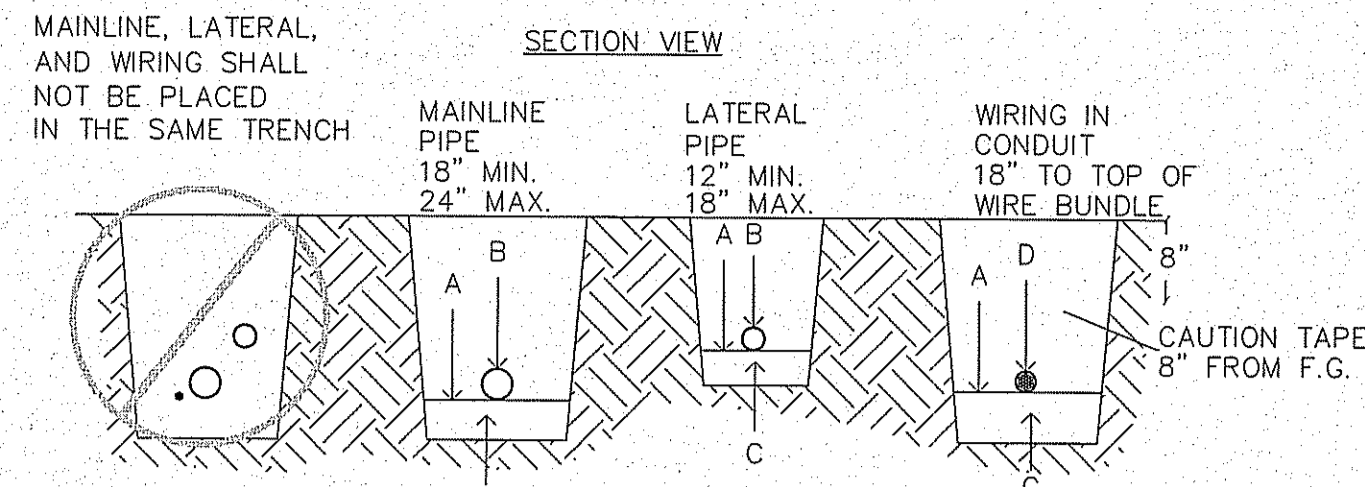


REDUCED PRESSURE BACKFLOW PREVENTOR AND ENCLOSURE DETAIL
SCALE: 1"=2'

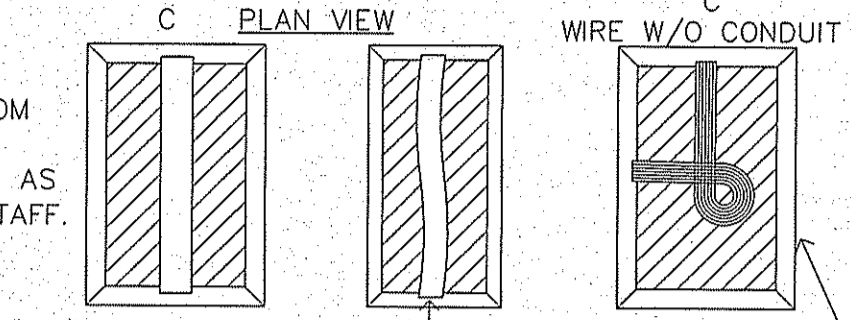
PROPOSED MESQUITE HILLS 8 WHITE MESQUITE PARK

<p>PROJECT NAME PROPOSED MESQUITE HILLS 8 WHITE MESQUITE PARK 6940 COPPER TOWN DR. BENIC, TEXAS 79008-9500 BEING SURVEYED FOR THE MESQUITE HILLS UNIT # 6 79.9866 91 S.F. OR 1.813 ACRES</p>	<p>DATE</p>	<p>REVISIONS</p>	<p>BY</p>
	<p>SCALE</p>		
	<p>IRRIGATOR'S SEAL</p>	<p>DATE: 12/07/16</p>	<p>DESIGN BY: E.J.</p>
<p>IRRIGATOR'S SEAL</p>	<p>HORIZ. NTS</p>	<p>VERT. NTS</p>	<p>DATE: JUNE 2016</p>
<p>IRRIGATOR'S SEAL</p>	<p>REVIEWED BY: Anthony Dela Cruz</p>	<p>DATE: 12/08/2016</p>	<p>Final Approval</p>
<p>CONDE INC. ENGINEERING / PLANNING SURVEYING / GPS 6080 SURETY DR. SUITE 100 FEL PASO, TEXAS 79605 PHONE: (915) 592-0283 FAX: (915) 592-0286</p>	<p>STATE OF TEXAS REYNOLDO MARTINEZ REGISTERED PROFESSIONAL ENGINEER NO. 9000</p>	<p>CONDE INC. REGISTRATION NO. F-2321</p>	<p>SHEET TITLE</p>
<p>LANDSCAPE AND IRRIGATION DETAILS</p>	<p>SHT L7 OF L11</p>	<p>TRANS. FROM COPPER TO PVC PIPE AFTER PUMP HOUSE</p>	

FILE LOCATION S:\LANDSCAPE\MESQUITE HILLS 8_L&I DETAILS PLOTTED ON Wednesday, November 16, 2016 11:04:56 AM BY ESTEBAN JUAREZ



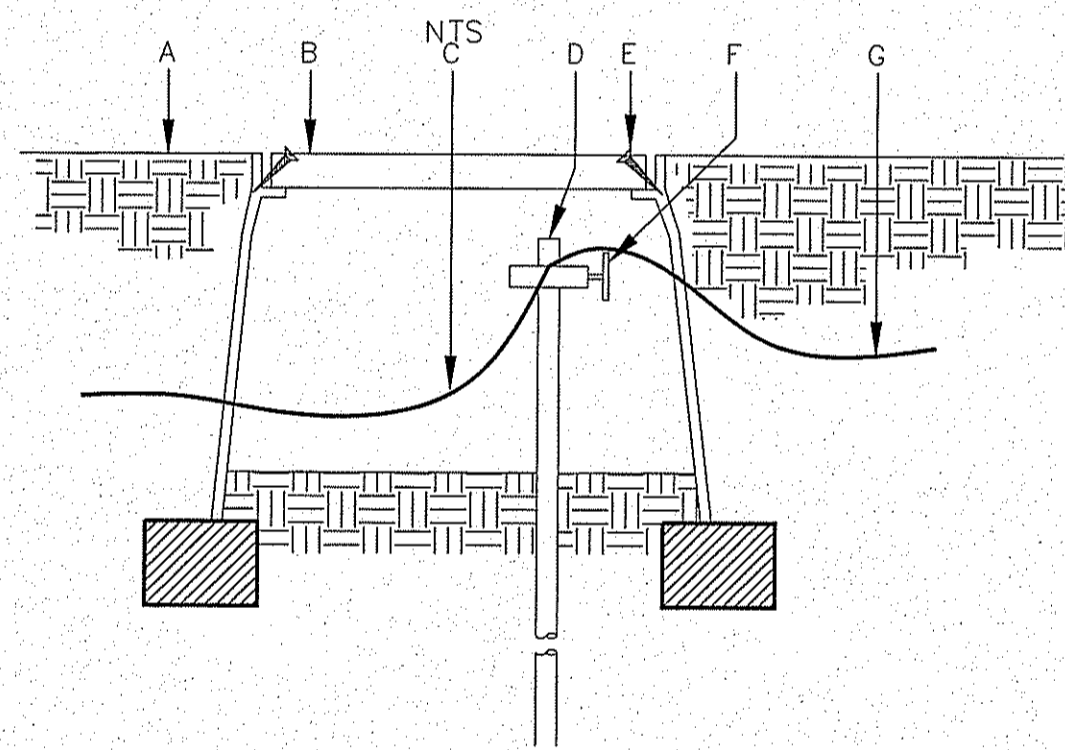
SET WIRE BUNDLE AT 5" FROM MAINLINE ALONG THE NORTH AND WEST SIDE OF MAIN OR AS AGREED TOO WITH PARKS STAFF.



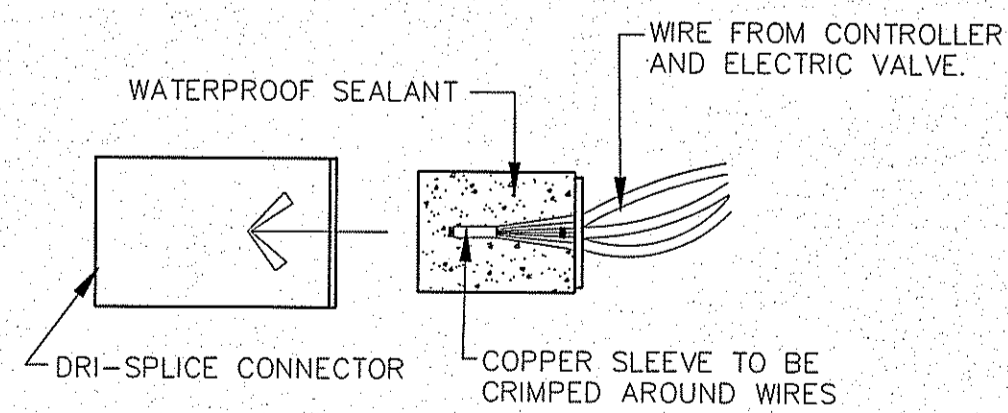
ALL SOLVENT WELD PLASTIC PIPING TO BE SNAKED IN TRENCH AS SHOWN FOR LATERAL LINES. TIE A 24-INCH LOOP IN ALL WIRING AT CHANGES OF DIRECTION OF 30° OR GREATER AND EVERY 200 FEET.

- NOTES: A. BOTTOM OF EXCAVATED TRENCH WHERE NONE ROCKY SOILS ARE EXPOSED (ENCOUNTERED). B. IRRIGATION SYSTEM PIPING. C. MINIMUM 4" DEEP BEDDING SANDY SOILS MATERIAL WHERE ROCKY SOILS ARE EXPOSED. D. IRRIGATION SYSTEM VALVE WIRING. E. BACKFILL SOILS MATERIAL MAY BE NATIVE SOILS IF IT IS FREE OF CALICHE OR STONES LARGER THAN 1" IN SIZE AND ORGANIC MATTER OR WASTE DEBRIS. SOILS COMPACTION IN TURF AREAS TO BE 80% TO 85% DENSITY BY ASTM D-1557 STANDARD AND AT 95% DENSITY UNDER PAVED OR HARDSCAPE SURFACES.

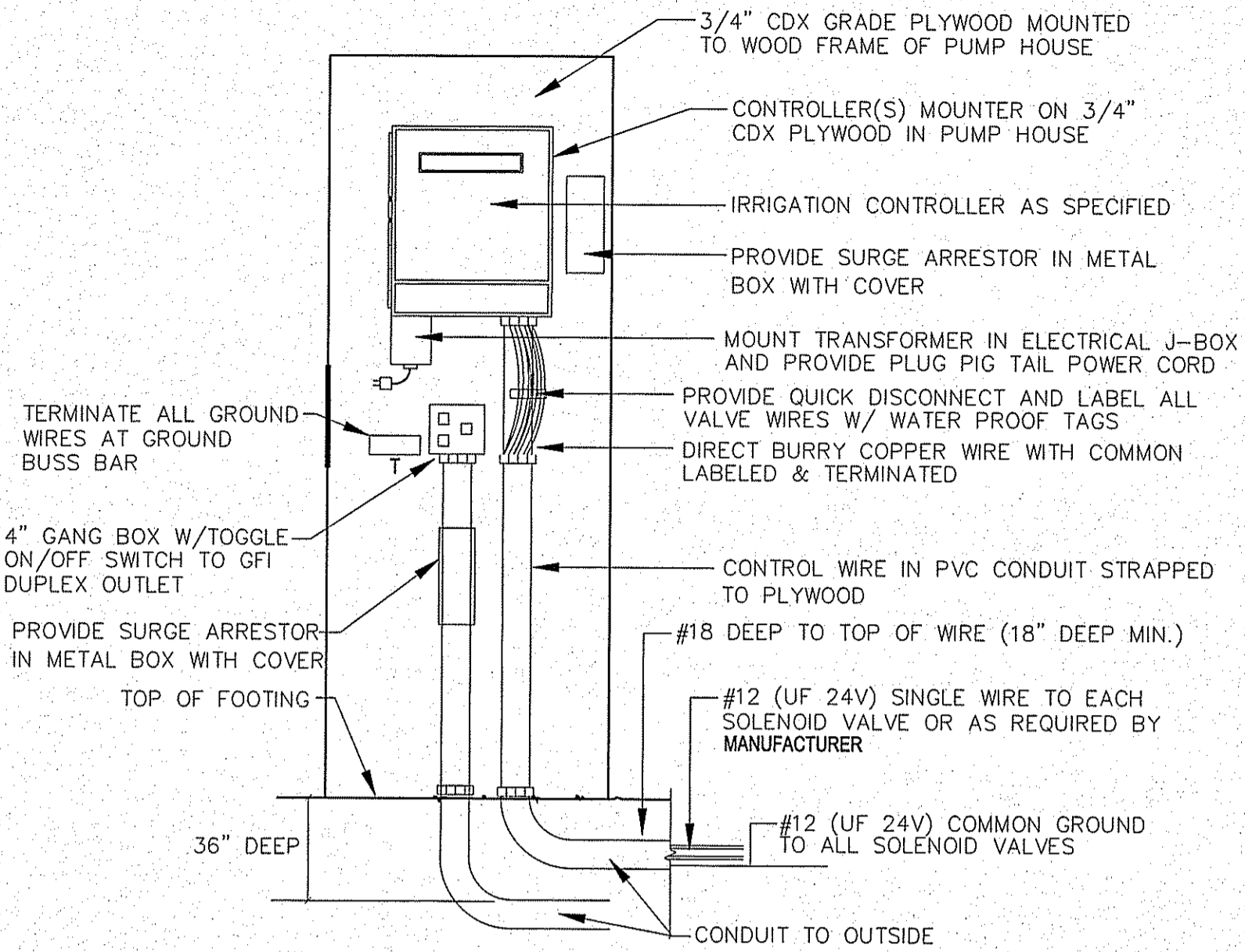
PIPE / WIRE IN TRENCH
NTS



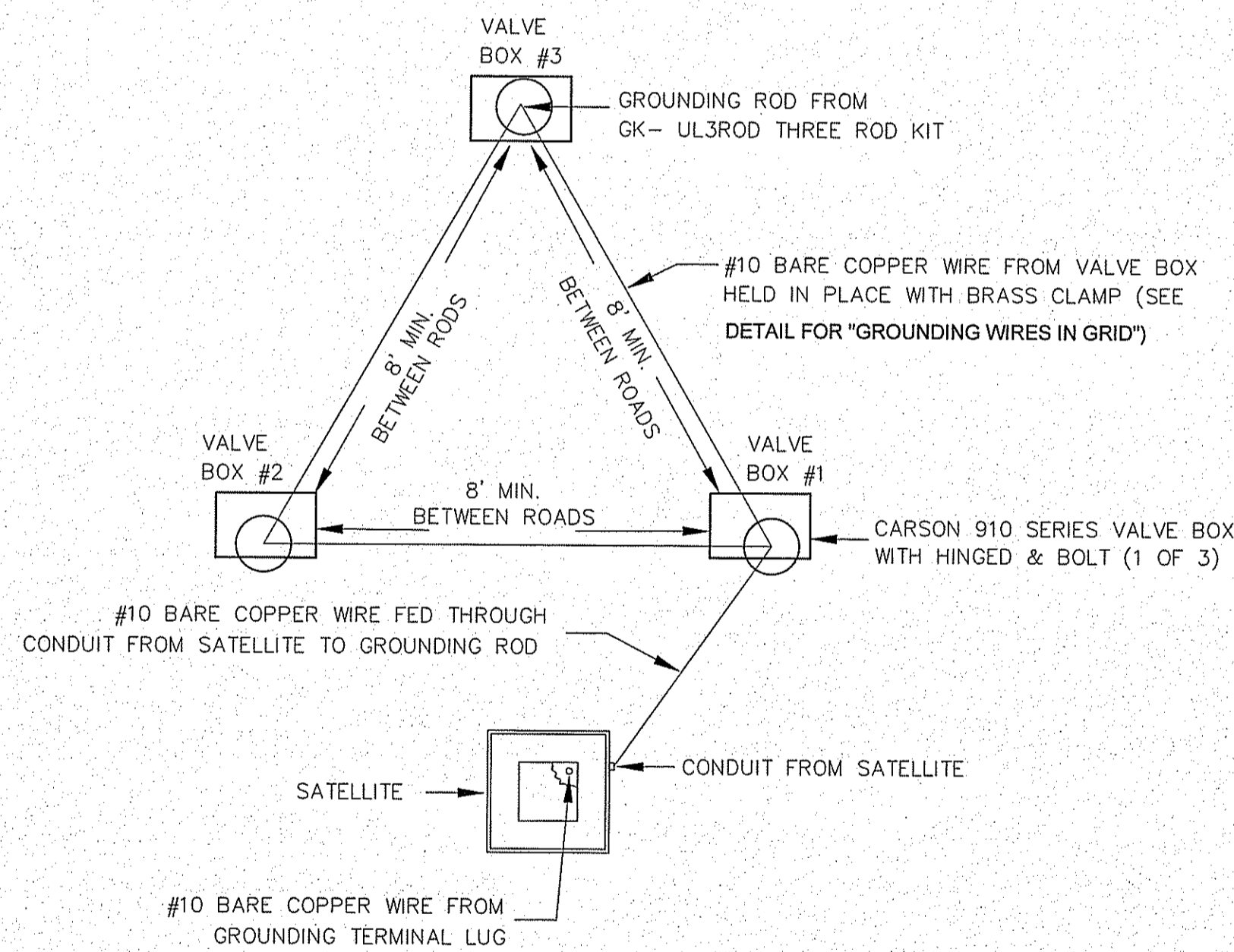
GROUNDING WIRES INTERMEDIATE
NTS



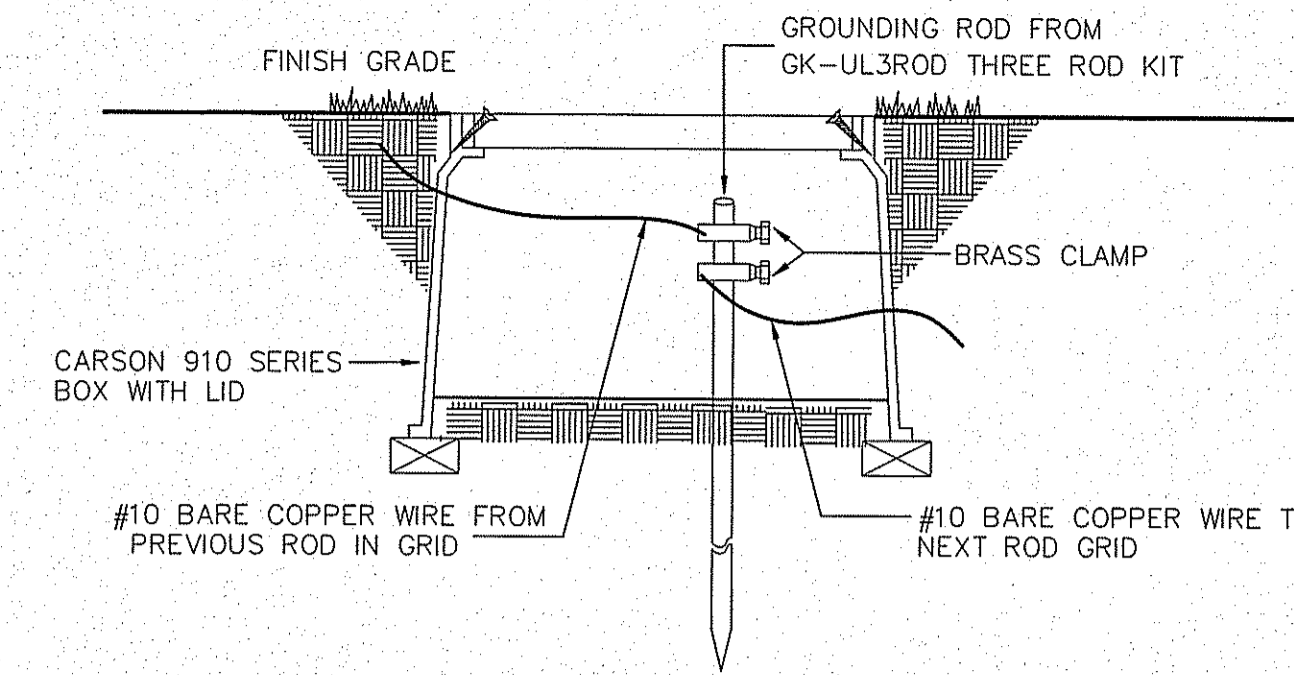
THREE STEP OPERATION DRI-SPlice CONNECTOR ONLY. FILL WITH SEALANT SUFFICIENT TO SEAP WHEN ASSEMBLED.
WIRE CONNECTORS
NTS



CONTROLLER WALL MOUNT DETAIL INSIDE PUMP HOUSE
NTS



PLAN VIEW FOR LAYOUT ONLY. SEE GROUNDING ROD NOTES FOR INSTALLATION INSTRUCTIONS.
TRIANGULAR GROUNDING PLAN VIEW DETAIL
NTS

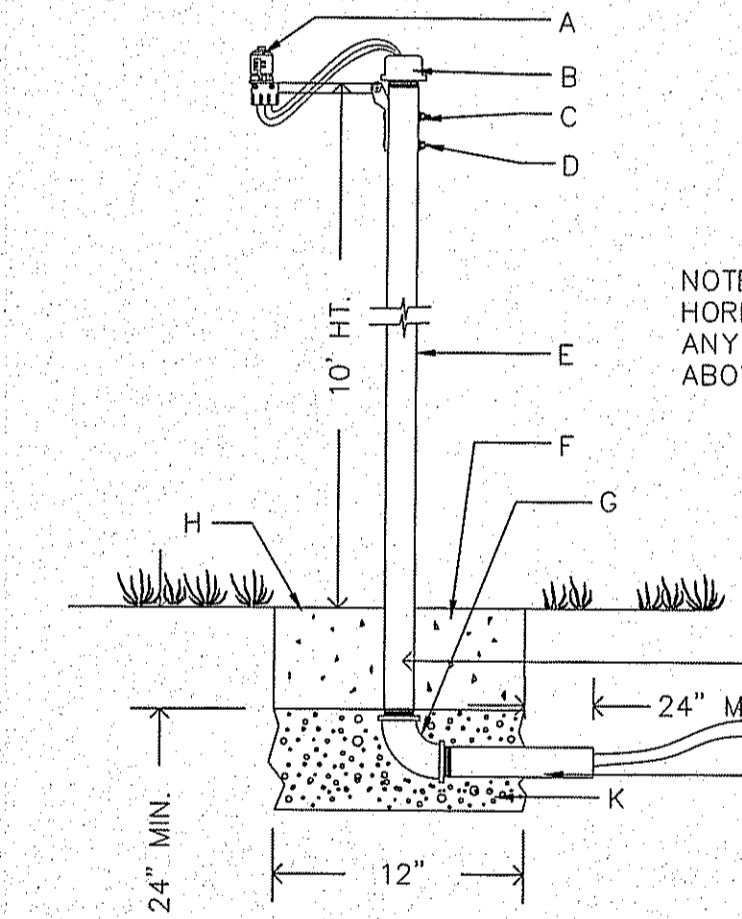


SEE GROUNDING ROD NOTES FOR INSTALLATION INSTRUCTIONS
GROUNDING ROD NOTES:

GROUNDING RODS SERVE AS ELECTRODES FOR DEVICES TO DISSIPATE THE SURGE INTO THE EARTH. CAREFULLY READ THE FOLLOWING INSTALLATION INSTRUCTIONS:

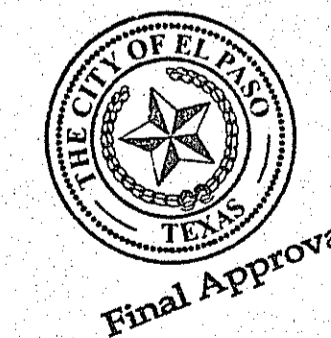
1. ALWAYS USE A 5/8" X 8' COPPER CLAD ROD.
2. RUN A #10 OF LARGER BARE COPPER WIRE FROM THE DEVICE TO THE ROD.
3. KEEP THE GROUND WIRES AS SHORT AND STRAIGHT AS POSSIBLE FROM THE DEVICE TO THE FIRST ROD.
4. CLAMP ALL WIRES TO THE GROUNDING ROD. DO NOT SOLDER OR TAPE THEM TO THE ROD.
5. TO INSTALL GROUNDING ROD, USE GK-TOOLS ROD DRIVING SLEEVE.
6. SPACE THREE RODS IN A TRIANGULAR GRID AT LEAST 8' APART FROM THE OTHERS IN THE GRID. CONNECT ALL THREE RODS WITH A SOLID # 10 COPPER WIRE.
7. WHEN TESTED WITH THE PROPER EQUIPMENT, GRIDS SHOULD HAVE AN EARTH RESISTANCE NO GREATER THAN 10 OHMS.
8. WHENEVER MORE THEN ONE WIRE IS ATTACHED TO A GROUNDING ROD ALWAYS USE A SEPARATE CLAMP FOR EACH WIRE. TRYING TO INSTALL MORE THAN ONE WIRE PER CLAMP COULD CAUSE A POOR CONNECTION RESULTING IN HIGH RESISTANCE LEVELS.
9. GROUNDING RODS SERVE AS ELECTRODES FOR THE SURGE DEVICES TO DISSIPATE THE SURGE INTO THE EARTH REMEMBER THESE TIPS WHEN INSTALLING THEM.

GROUNDING WIRES IN GRID DETAIL INITIAL TERMINAL



RAIN SENSOR AND NOTES

- A. RAIN BIRD RSD-BEX RAIN SENSOR. SET TO 1/8"
- B. 2 1/2" PIPE CAP WITH HOLE FOR WIRES AND SEAL WITH EXTERIOR GRADE SILICONE SEALANT.
- C. DRILL TWO 3/16" HOLES IN PIPE FOR SENSOR BRACKET.
- D. (2) NO. 8-32 MACHINE SCREWS WITH WASHER, LOCK WASHER AND NUT.
- E. 2 1/2" SCH 40 GALVANIZED PIPE-10 FT. HT. A.G.
- F. 12"x12" CONCRETE BASE, MIN. 24" DEEP.
- G. PIPE ELBOW.
- H. FINISH GRADE.
- I. PIPE TO BE SEALED AFTER CABLE IS RUN, USE 4 MIL. PLASTIC AND TAPED NIPPLE AND THE CABLE WITH HIGH GRADE 3M WEATHER PROOF PLASTIC TAPE.
- J. NIPPLE. GALVANIZED PIPE IN CONCRETE FOOTING TO BE WRAPPED WITH WEATHER PROOF TAPE TO PROTECT FROM CORROSION.
- K. 6" THICK, 3/8" DIAMETER WASHED PEA GRAVEL.



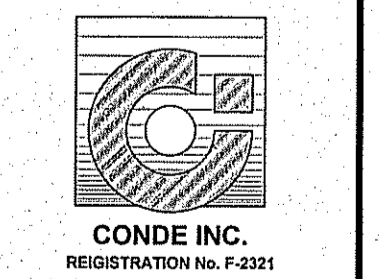
PARKS DEPARTMENT
REVIEWED BY: *[Signature]* 12/05/2014

BENCHMARK	
DATE	11/2/16
BY	E.J.
REVISIONS	REVISIONS AS PER CITY COMMENTS 10/28/16

PROPOSED MESQUITE HILLS 8
WHITE MESQUITE PARK
6940 COPPER TOWN DR.
BEING ALL OF LOT 1, BLOCK 60,
HILLS UNIT 6
78.96631 S.F. OR 1.815 ACRES

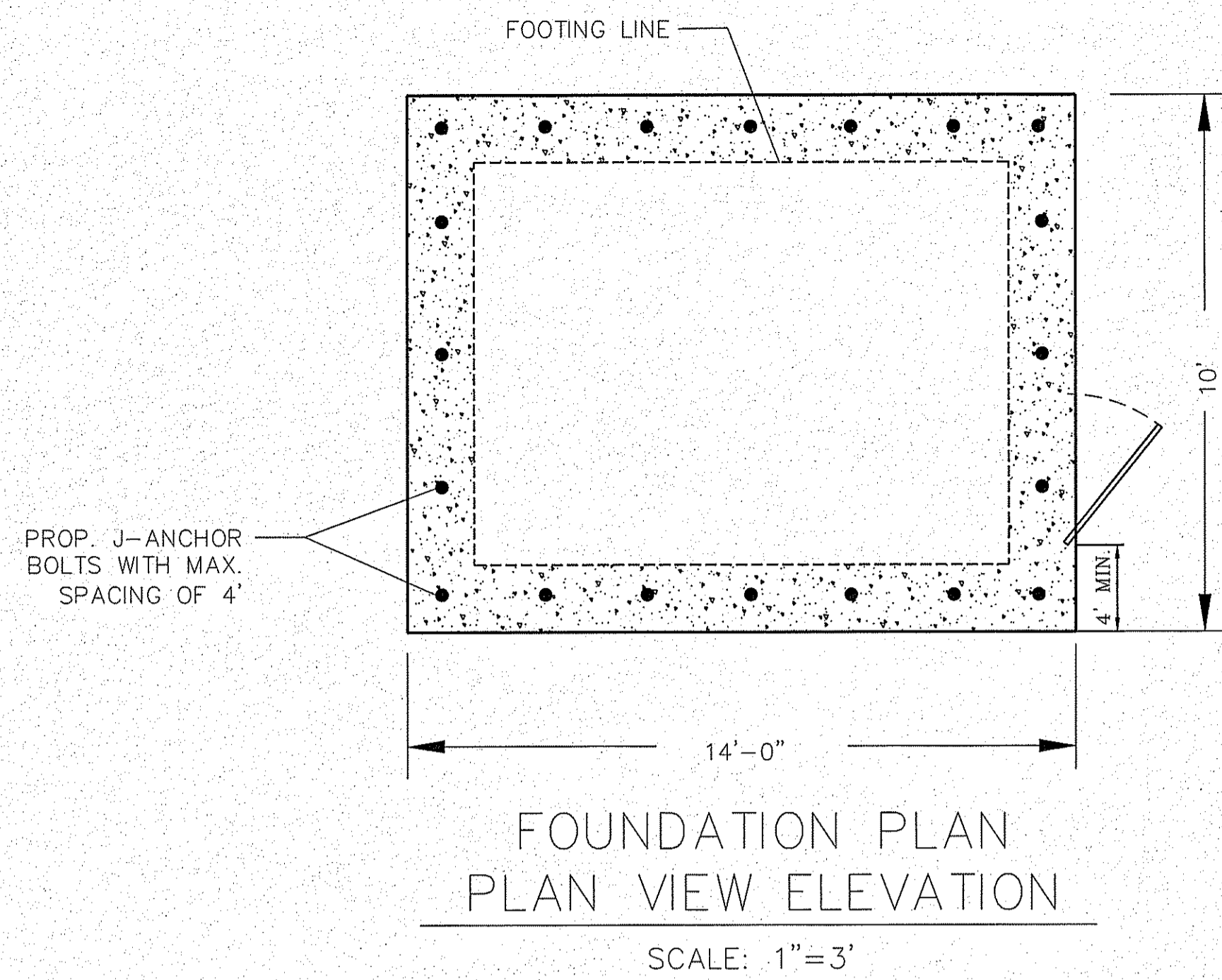
SCALE: HORIZ: NTS, VERT: NTS
DATE: JUNE 2016
DESIGN BY: R.M.
INITIATED BY: E.J.
CHECKED BY: R.M.
JOB NO.: 216-33

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



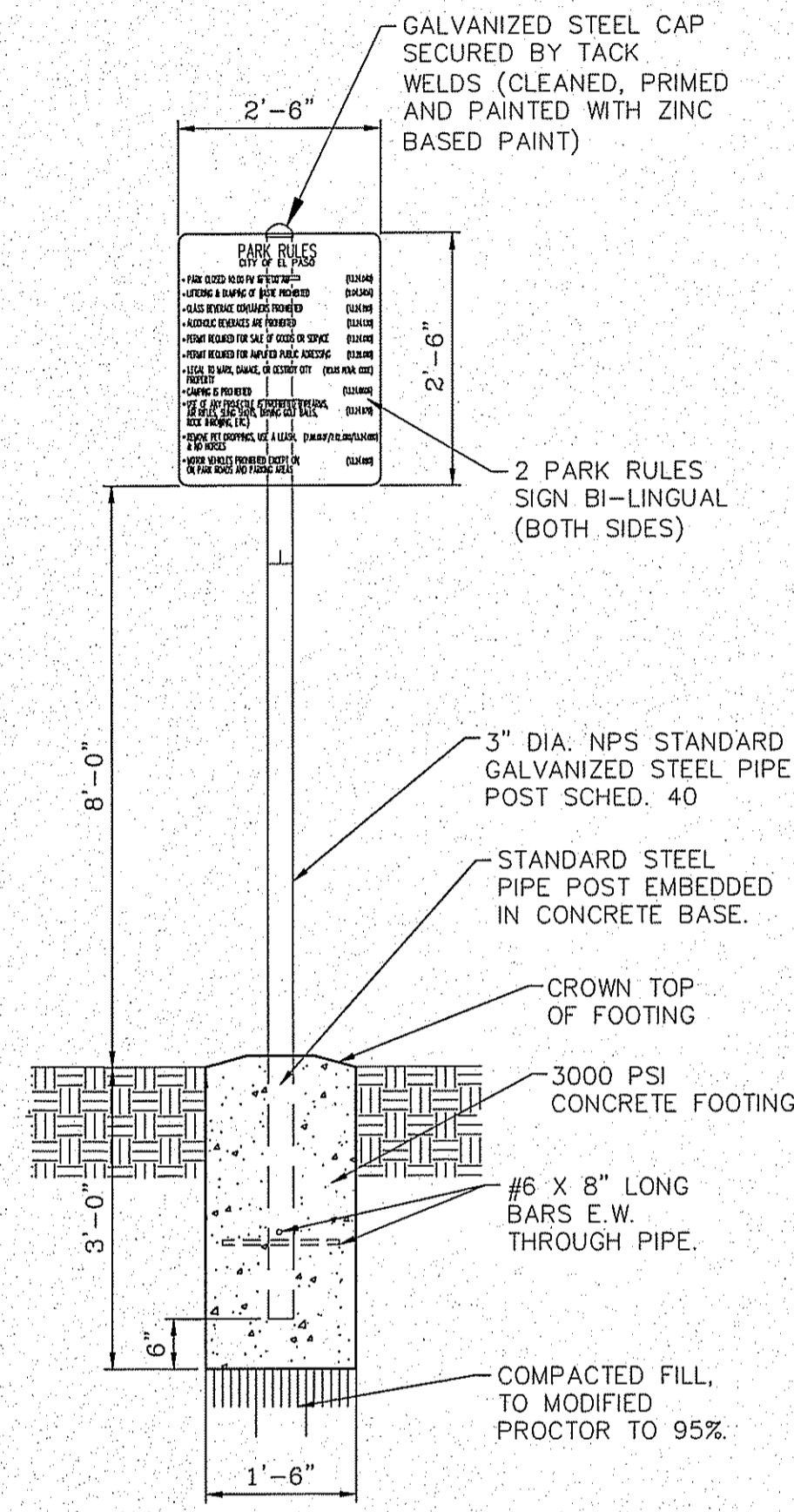
SHEET TITLE
LANDSCAPE AND IRRIGATION DETAILS

FILE LOCATION S:\LANDSCAPE\MESQUITE HILLS 8\L&I DETAILS PLOTTED ON Wednesday, November 16, 2016 11:05:07 AM BY ESTEBAN JUAREZ



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.

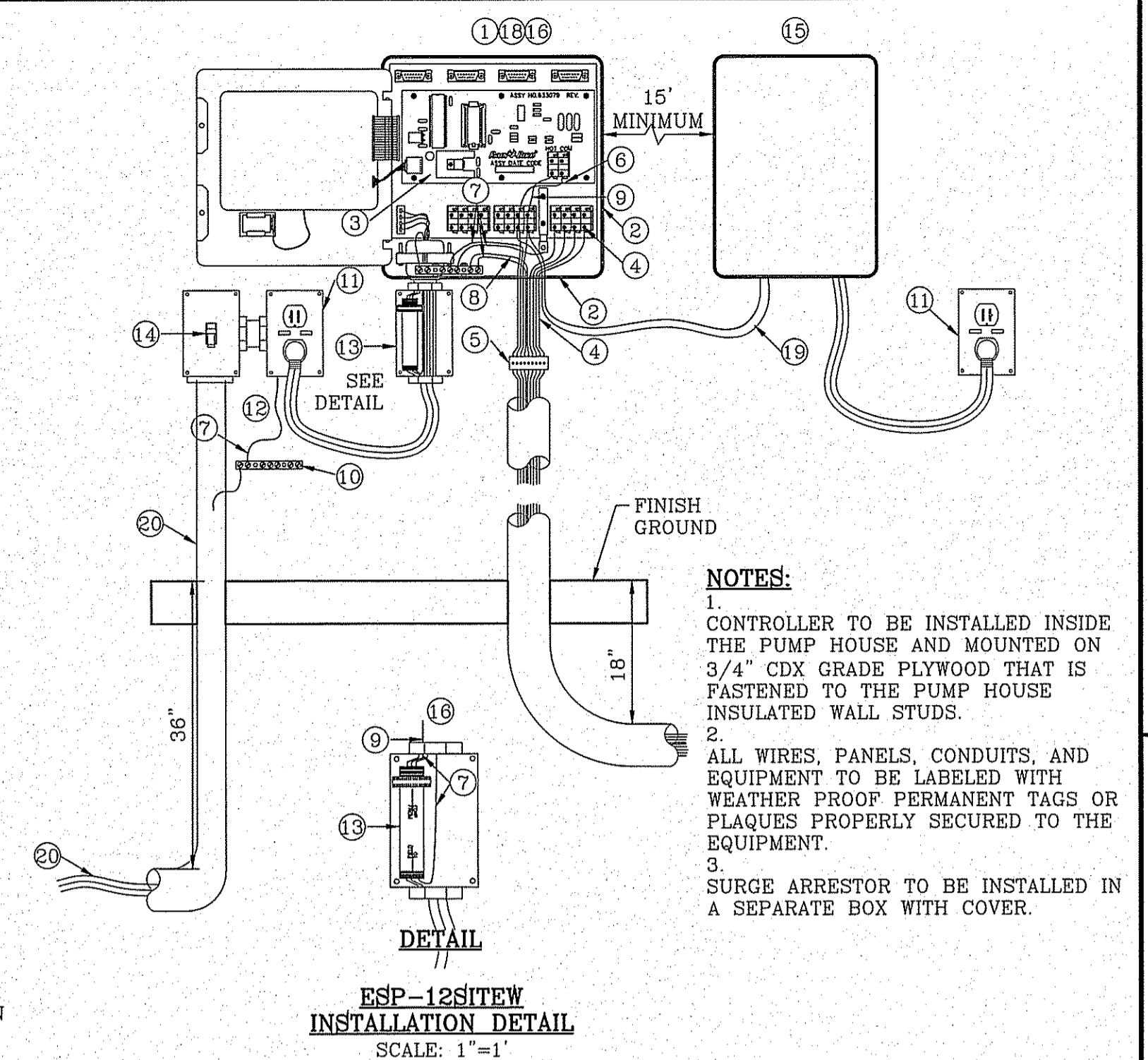


PARK RULES SIGN
NTS

- (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

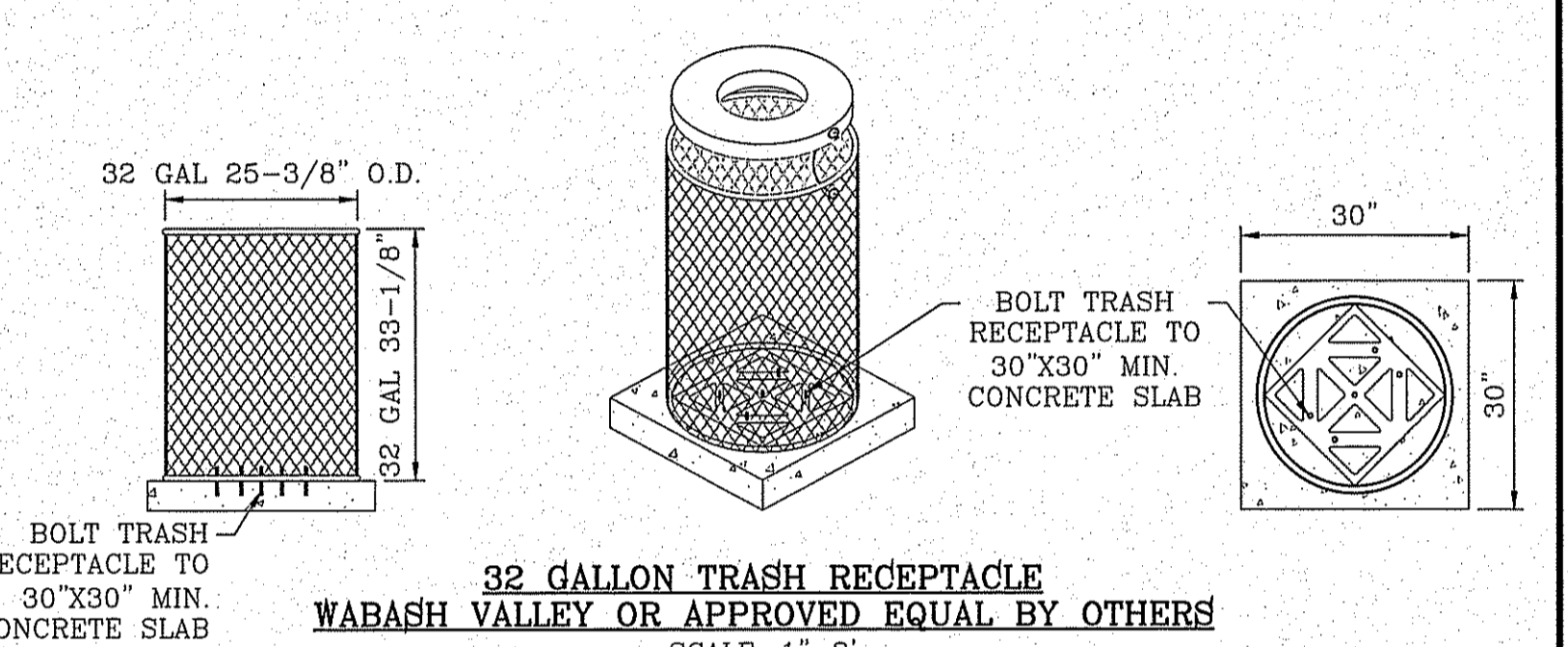
NOTE:
PVC PIPE ASSEMBLIES AT IRRIGATION VALVES, PRESSURE REGULATOR AND FILTER ARE TO HAVE UNIONS ON BOTH INTAKE AND DISCHARGE SIDES OF THE EQUIPMENT WHEN THE PIPE IS SMALLER THAN THREE INCHES AND FLANGES ARE TO BE USED ON PIPE THREE INCHES AND LARGER. INSURE THAT THE EQUIPMENT AND FITTINGS ARE ACCOMMODATED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

- INSTALL IN NEMA2 APPROVED METAL ENCLOSURE TO HOUSE IRRIGATION SYSTEM CONTROLLER.
- RAIN BIRD ESP-SAT WALL MOUNT (METAL/PLASTIC) FIELD SATELLITE CONTROLLER
- ESP-SAT TWO-WIRE MAXICOM INTERFACE BOARD (MIB)
- WIRE TERMINAL CONNECTORS TO REMOTE CONTROL VALVES USE ESP-MC QUICK CONNECT TERMINAL STRIP. ALL WIRES TO BE LABELED IN CONJUNCTION WITH EACH IRRIGATION REMOTE CONTROL VALVE AND MUST BE WATER/WEATHER PROOF. PLACE A QUICK DISCONNECT IN THIS GENERAL LOCATION SEPARATE FROM THE ONE ON THE CLOCK (CONTROLLER)
- PLACE A QUICK DISCONNECT IN THIS GENERAL LOCATION SEPARATE FROM THE ONE ON THE CONTROLLER AND MOUNTED WITHIN METAL PEDESTAL ENCLOSURE.
- COMMON WIRE (BLACK) FROM MSP-1 SURGE ARRESTOR TO MAXICOM INTERFACE BOARD (MIB)
- ALL GROUND WIRES (GREEN) TO GROUNDING BUSS BAR
- #10 COPPER GROUND WIRE FROM ESP FIELD SATELLITE CONTROLLER GROUNDING BUSS BAR TO GROUNDING GRID (SEE GROUNDING GRID MAXICOM DETAIL 305)
- HOT WIRE (RED) FROM MSP-1 SURGE ARRESTOR TO MAXICOM INTERFACE BOARD (MIB)
- GROUNDING BUSS BAR IN CABINET SEPARATE OF CONTROLLER
- 120 VOLT POWER SUPPLY W/ G.F.C.I. PROTECTION
- REFER TO LOCAL ELECTRIC CODE FOR CONNECTIONS
- RAIN BIRD MSP-1 RECOMMENDED SURGE ARRESTOR TO BE INSTALLED IN SEPARATE JUNCTION BOX WITH COVER
- POWER ON/OFF TOGGLE SWITCH
- PUMP START RELAY
- RAIN BIRD WARRANTY REQUIRES PROPER SURGE PROTECTION IN A METAL BOX WITH LID. USE INTERMATIC AG2401 OR TRIPPLITE ISOBAR.
- N/A
- 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 SEPARATE JUNCTION BOX WITH COVER
- COMMON WIRE/MASTER VALVE WIRE
- 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.
- COMMON WIRE/MASTER VALVE WIRE



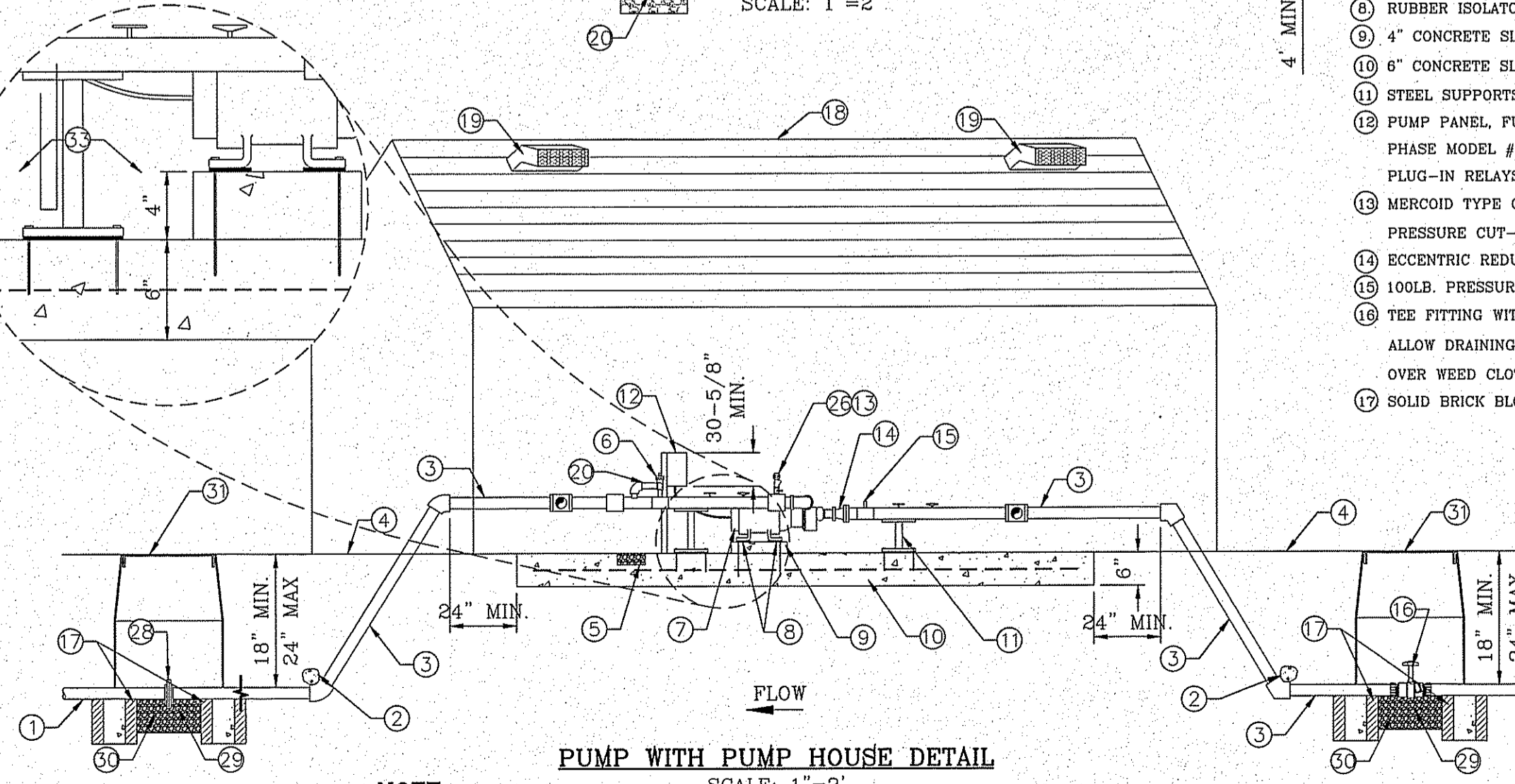
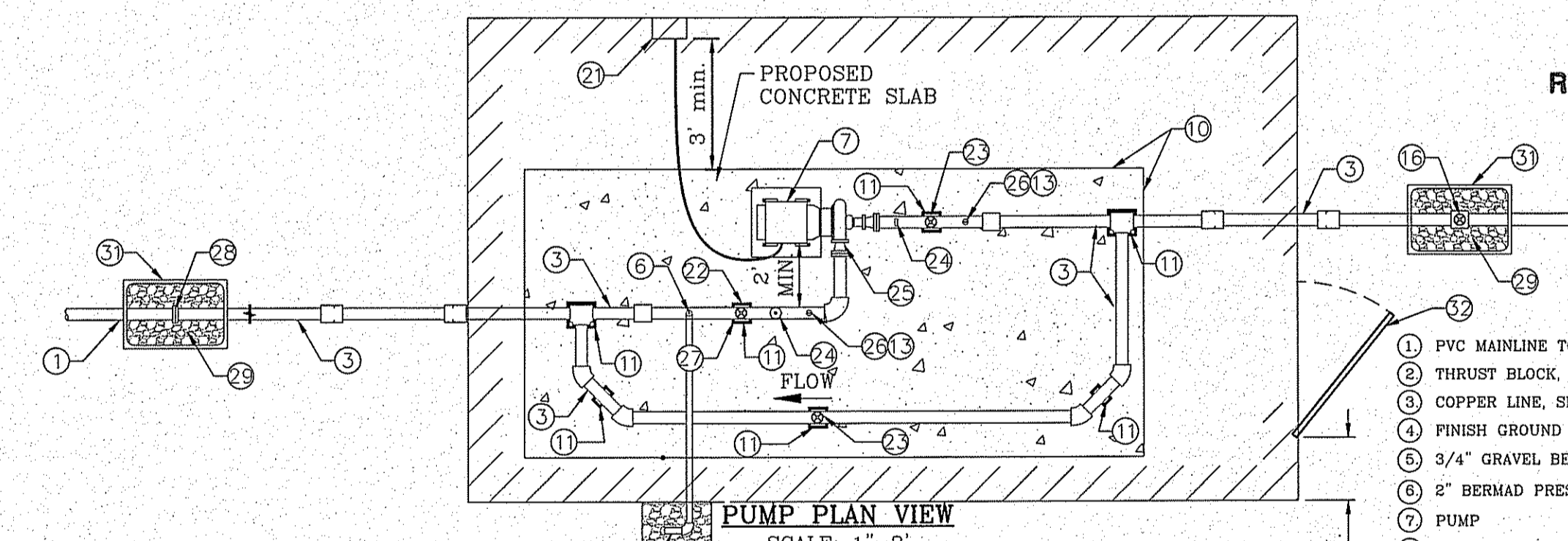
NOTES:

- 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.
- ALL WIRES, PANELS, CONDUITS, AND EQUIPMENT TO BE LABELED WITH WEATHER PROOF PERMANENT TAGS OR PLAQUES PROPERLY SECURED TO THE EQUIPMENT.
- SURGE ARRESTOR TO BE INSTALLED IN A SEPARATE BOX WITH COVER.

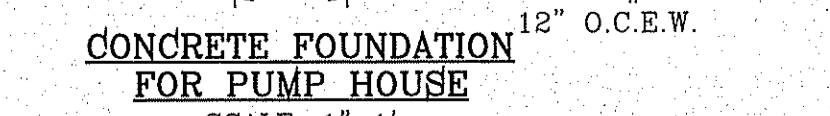


PARKS DEPARTMENT

REVIEWED BY *[Signature]* 12/08/2016



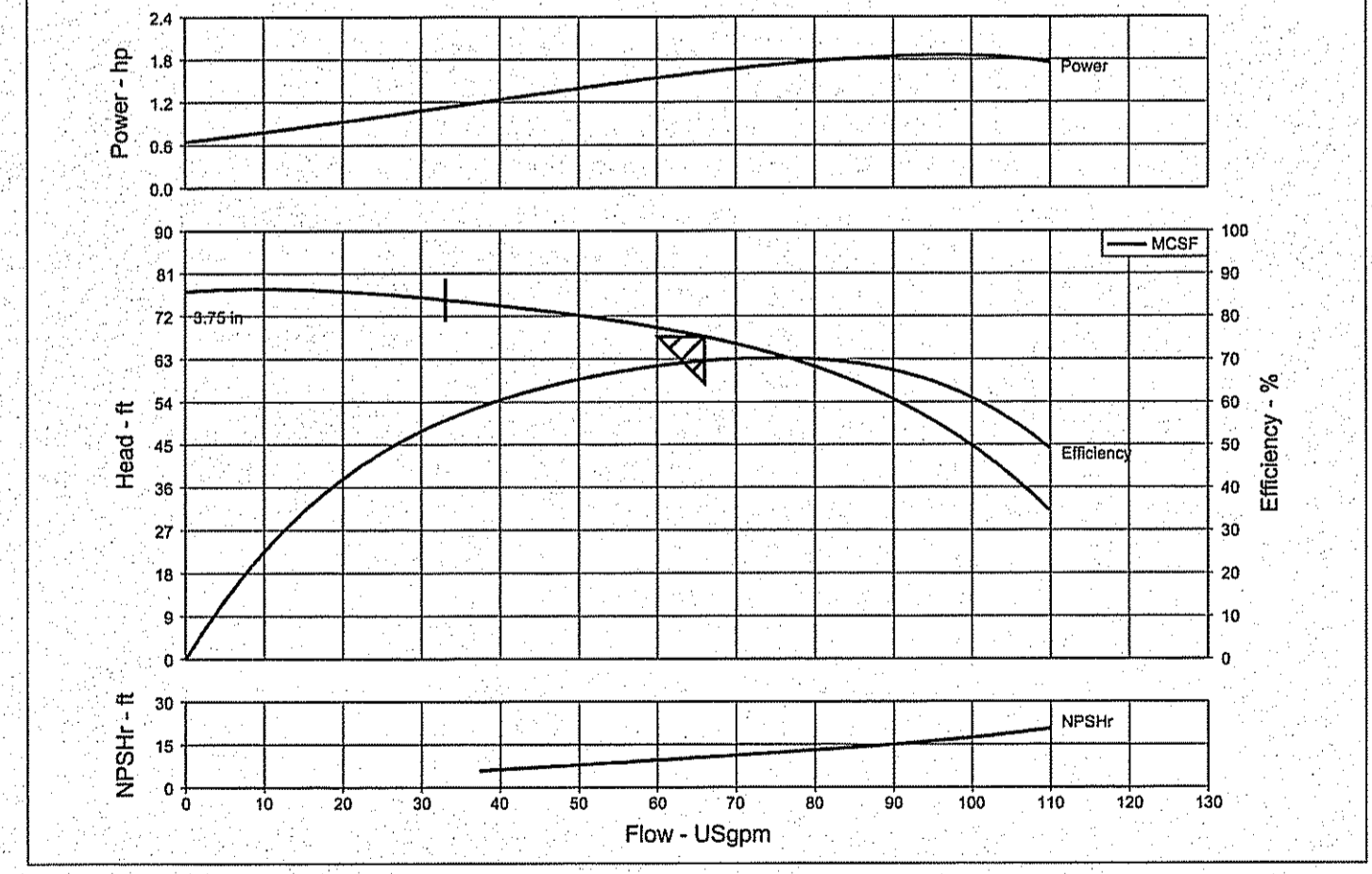
NOTE:
ELECTRICAL POWER CONDUIT AND PUMP CONTROL POWER TO BE INSTALLED (BURIED) AT 36" DEPTH FROM FINISH GROUND TO TOP OF PIPE. SEE CONDUIT TRENCH DETAIL



PROPOSED MESQUITE HILLS 8 WHITE MESQUITE PARK

PENTAIR BERKELEY Pentair Electronic Catalog

Pump Performance Datasheet	
Customer	: Ranchos Real XVI
Customer reference	: Mesquite Hills Unit 6
Item number	: Default
Service	: 6940 Copper Town Dr.
Quantity	: 1
Date last saved	: 01 Nov 2016 5:10 PM
Operating Conditions	
Flow, rated	: 66.00 USgpm
Differential head / pressure, rated (requested)	: 67.70 ft
Differential head / pressure, rated (actual)	: 67.73 ft
Suction pressure, rated / max	: 0.00 / 0.00 psi.g
NPSH available, rated	: Ample
Frequency	: 60 Hz
Performance	
Speed, rated	: 4088 rpm
Impeller diameter, rated	: 3.75 in
Impeller diameter, maximum	: 3.75 in
Impeller diameter, minimum	: 3.75 in
Efficiency	: 69.62 %
NPSH required / margin required	: 10.21 / 0.00 ft
ns (imp. eye flow) / S (imp. eye flow)	: 30 / 105 Metric units
MCSF	: 33.08 USgpm
Head, maximum, rated diameter	: 77.81 ft
Head rise to shutoff	: 13.99 %
Flow, best eff. point	: 74.94 USgpm
Flow ratio, rated / BEP	: 88.07 %
Diameter ratio (rated / max)	: 100.00 %
Head ratio (rated dia / max dia)	: 100.00 %
Cq/CqCo (On [ANSI/H 8.6.7-2010])	: 1.00 / 1.00 / 1.00 / 1.00
Selection status	: Acceptable
Quote number	: B1-12MRS
Slugs	: 1
Based on curve number	: 2676
Liquid type	: Water
Additional liquid description	: None
Solids diameter, max	: 0.00 in
Solids concentration, by volume	: 0.00 %
Temperature, max	: 68.00 deg F
Fluid density, rated / max	: 1.000 / 1.000 SG
Viscosity, rated	: 1.00 cP
Vapor pressure, rated	: 0.00 psia
Material selected	: Not specified
Pressure Data	
Maximum working pressure	: 33.68 psi.g
Maximum allowable working pressure	: 200.00 psi.g
Maximum allowable suction pressure	: N/A
Hydrostatic test pressure	: N/A
Driver & Power Data	
Driver sizing specification	: Rated power
Margin over specification	: 0.00 %
Service factor	: 1.00
Power, hydraulic	: 1.13 hp
Power, rated	: 1.62 hp
Power, maximum, rated diameter	: 1.86 hp
Minimum recommended motor rating	: 2.00 hp / 1.49 kW



BERKELEY Pumps / Pentair Water - 293 Wright Street - Delavan, Wisconsin 53115
phone: (888)782-7463 - fax: (800)426-9446 - www.berkeleypumps.com

PROPOSED MESQUITE HILLS 8 WHITE MESQUITE PARK
6940 COPPER TOWN DR.
BENING MESQUITE HILLS UNIT 6 BLOCK 50.
78.966 91 S.F. OR 1.813 ACRES

PROJECT NAME: PROPOSED MESQUITE HILLS 8
S C A L E: AS SHOWN
HORIZ. VERT. SCALE: 1"=20' / 1"=4'

DESIGN BY: R.M. JUNE 2016
INITIATED BY: E.J. 11/2/16
CHECKED BY: R.M. 12/8/16
JOB NO.: 216-33

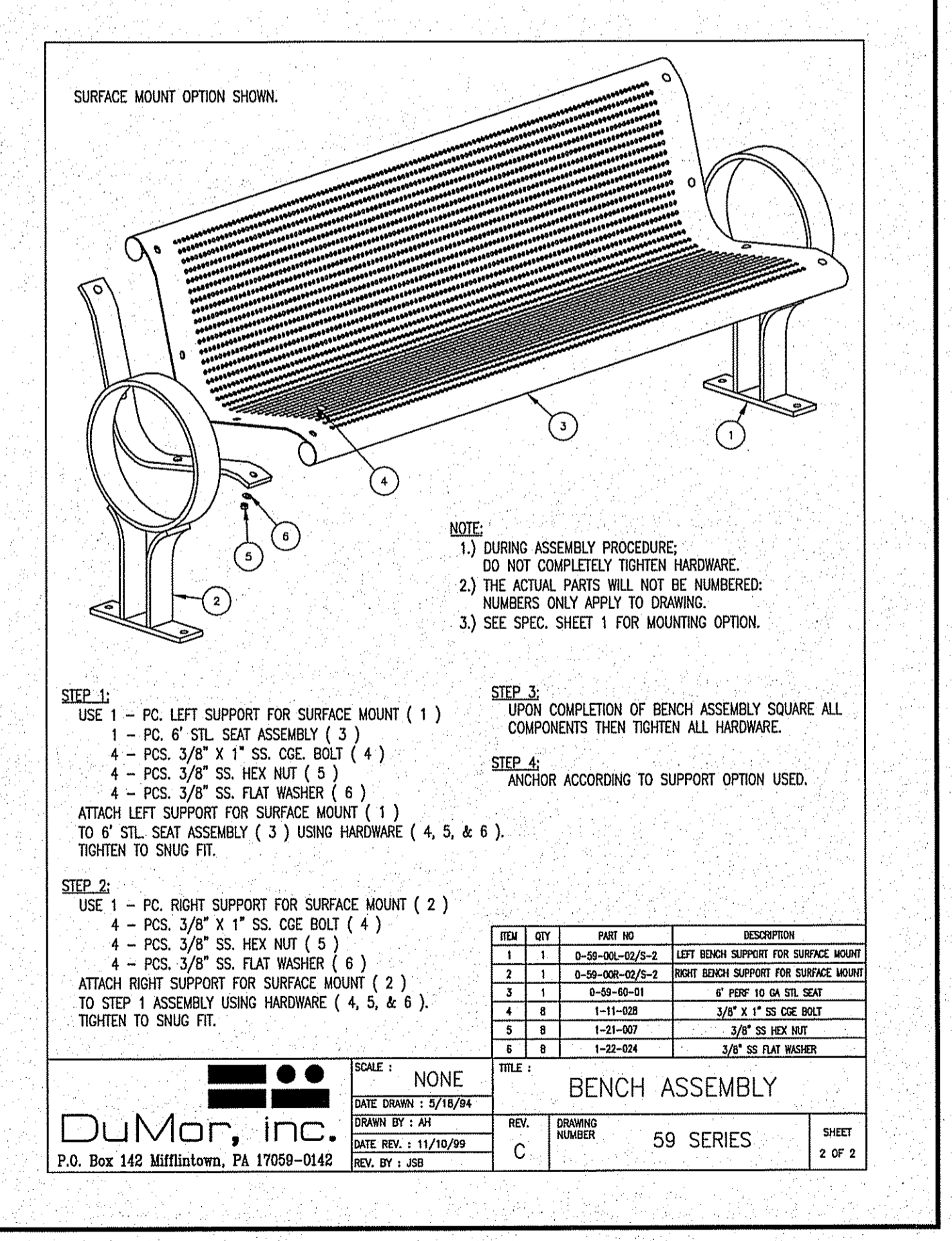
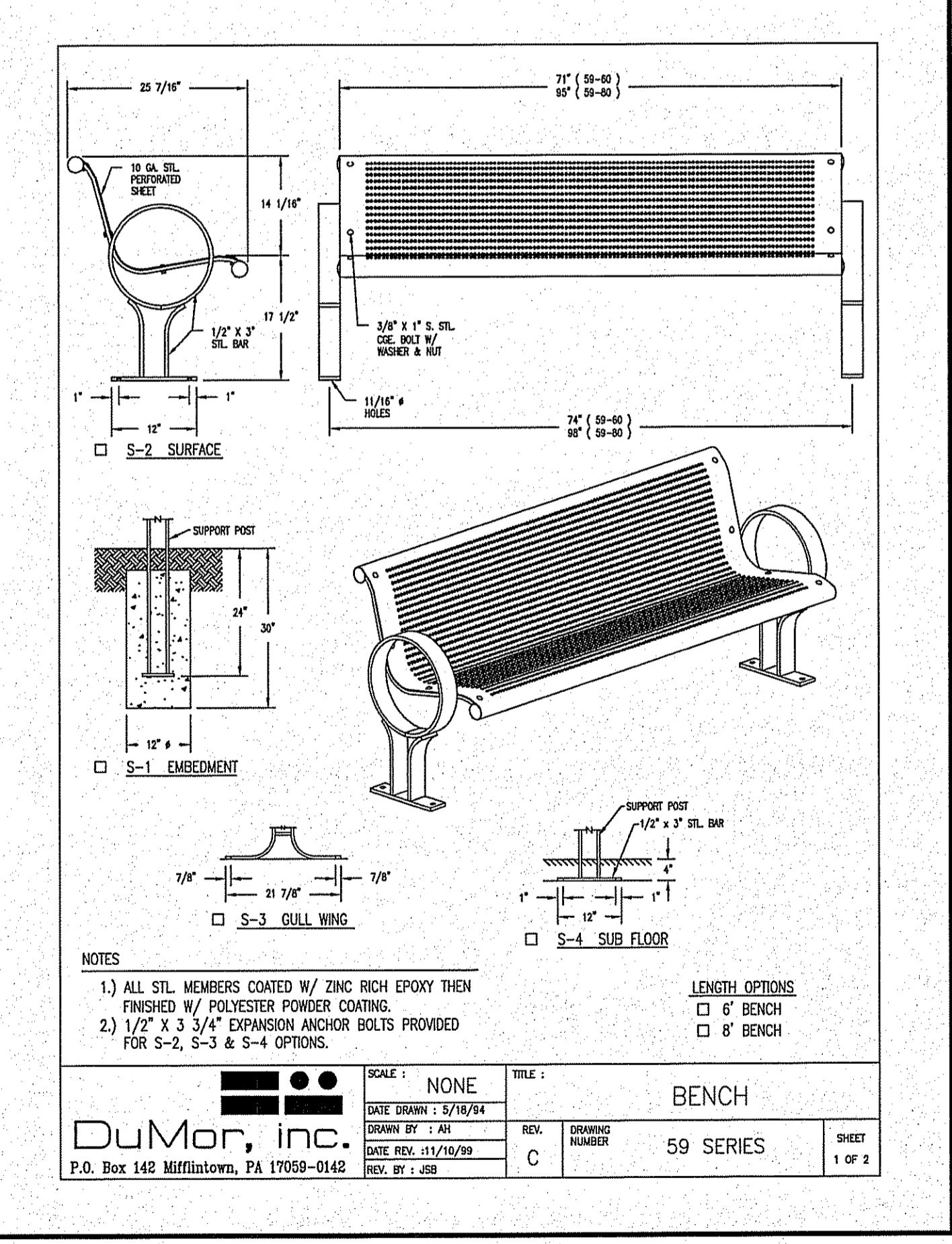
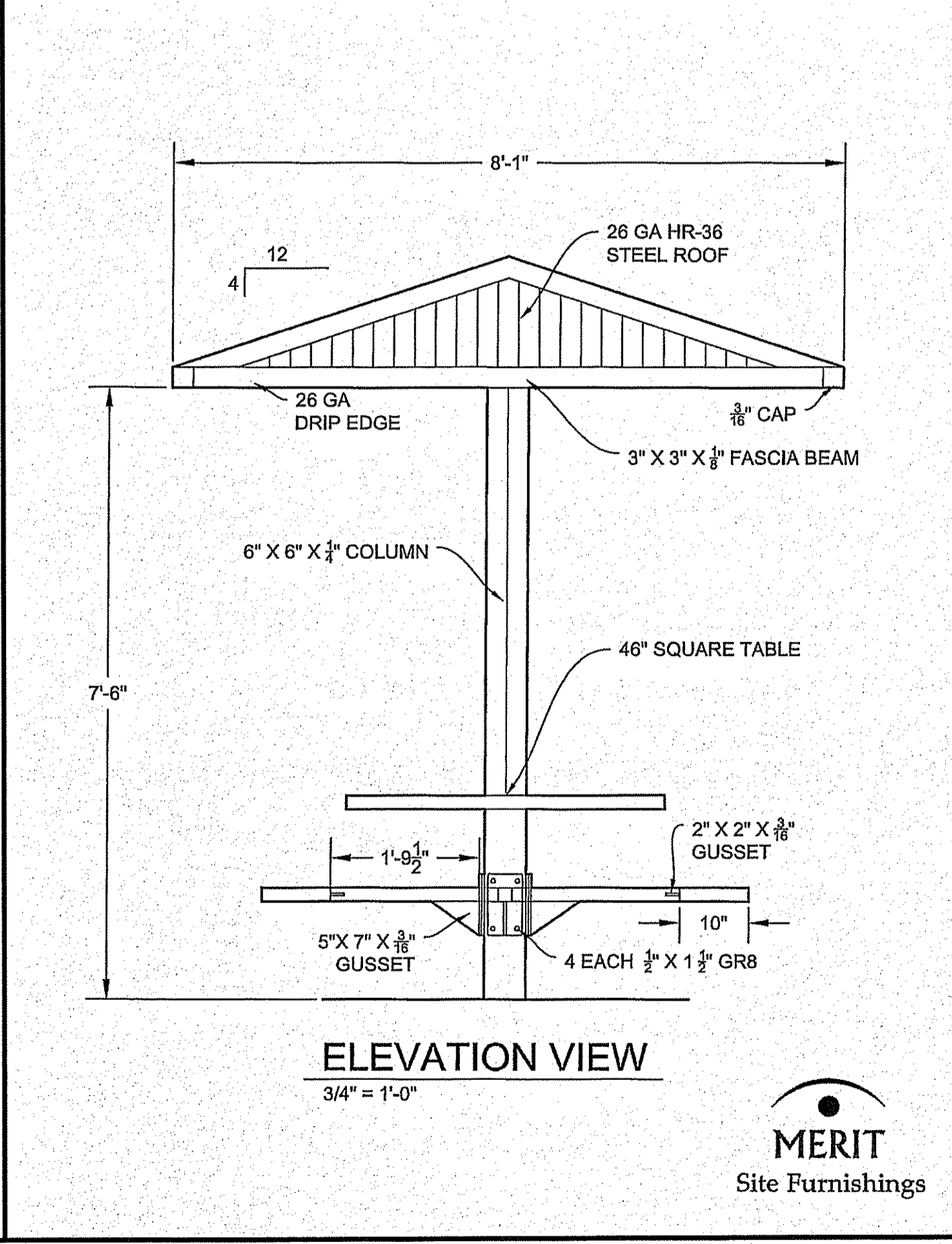
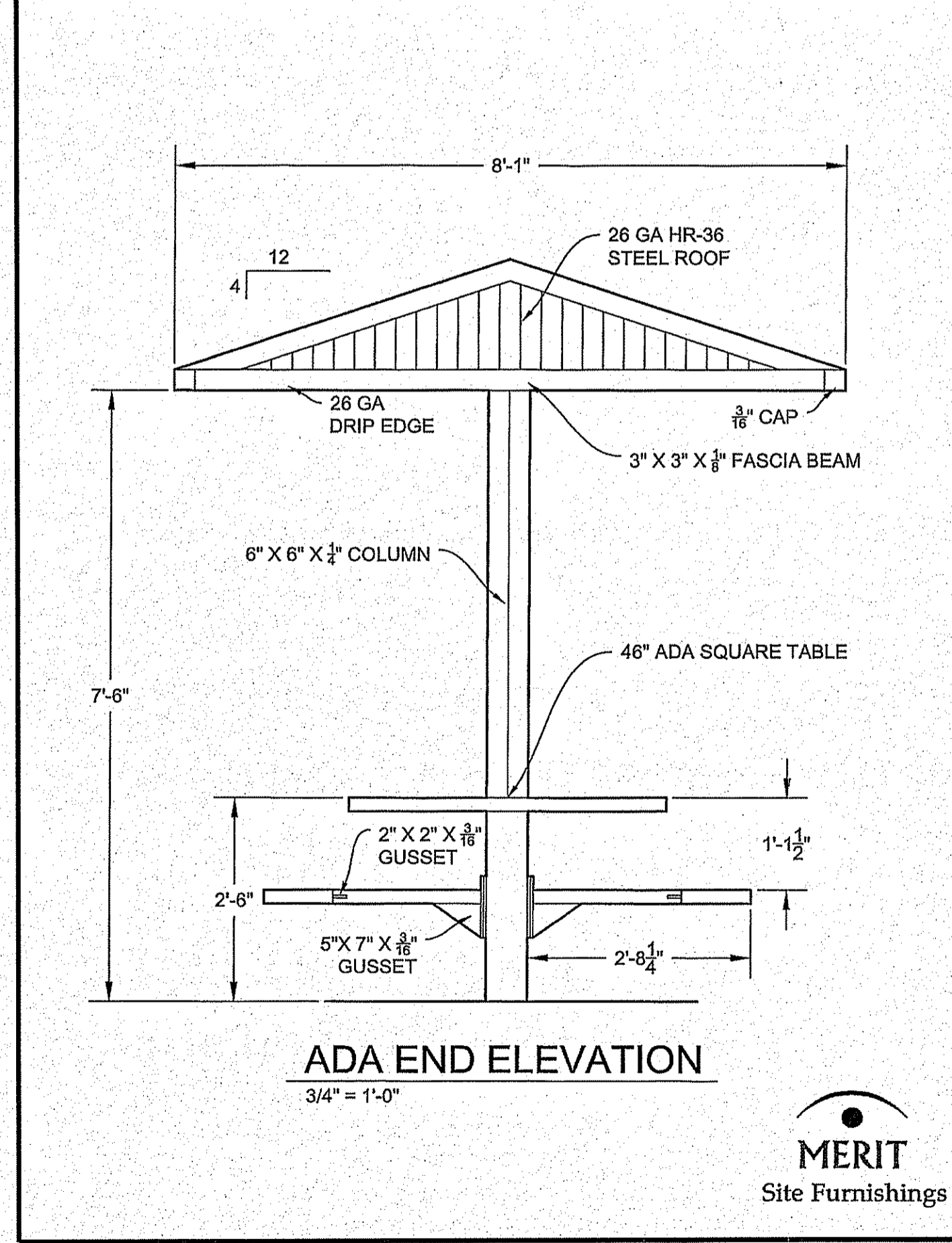
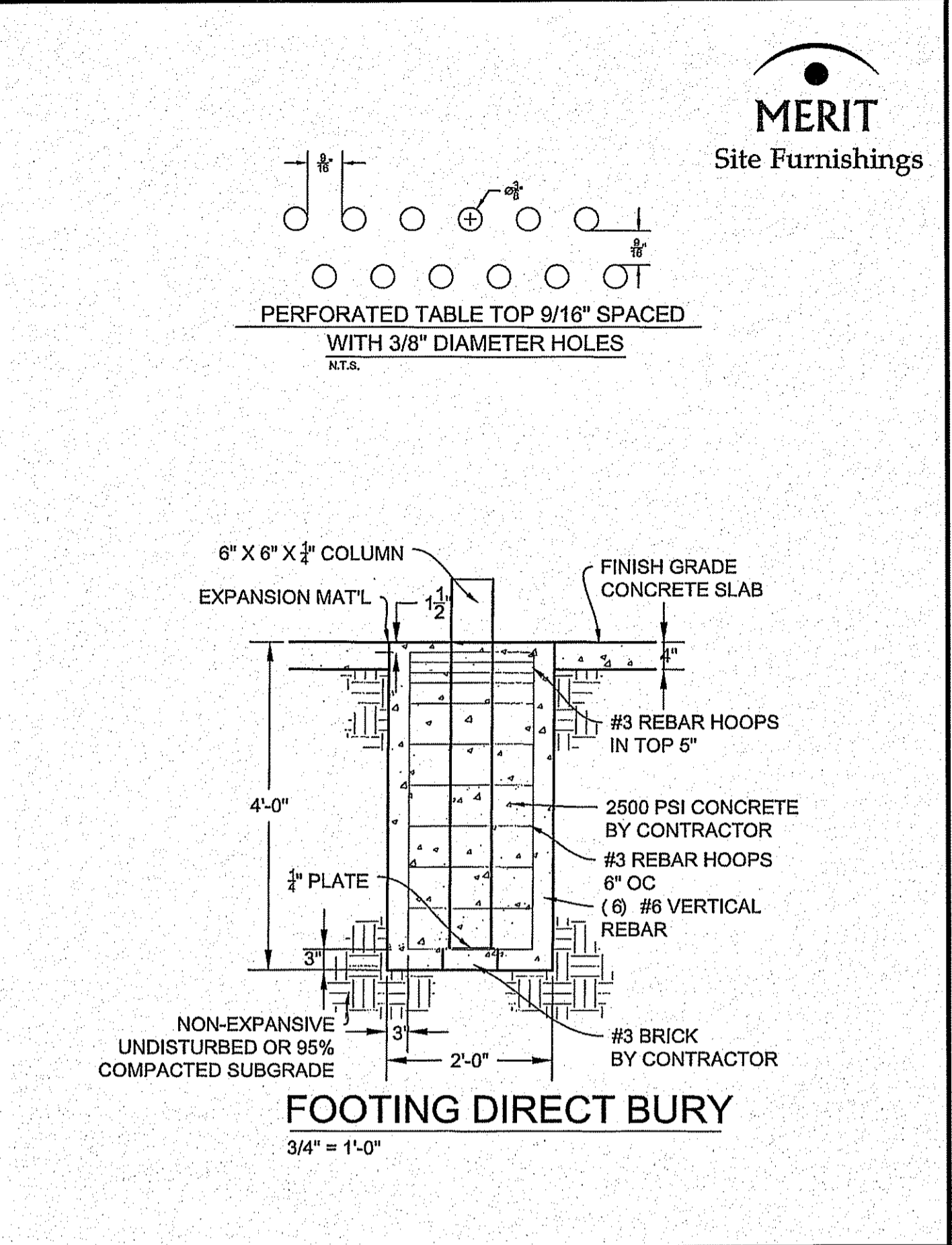
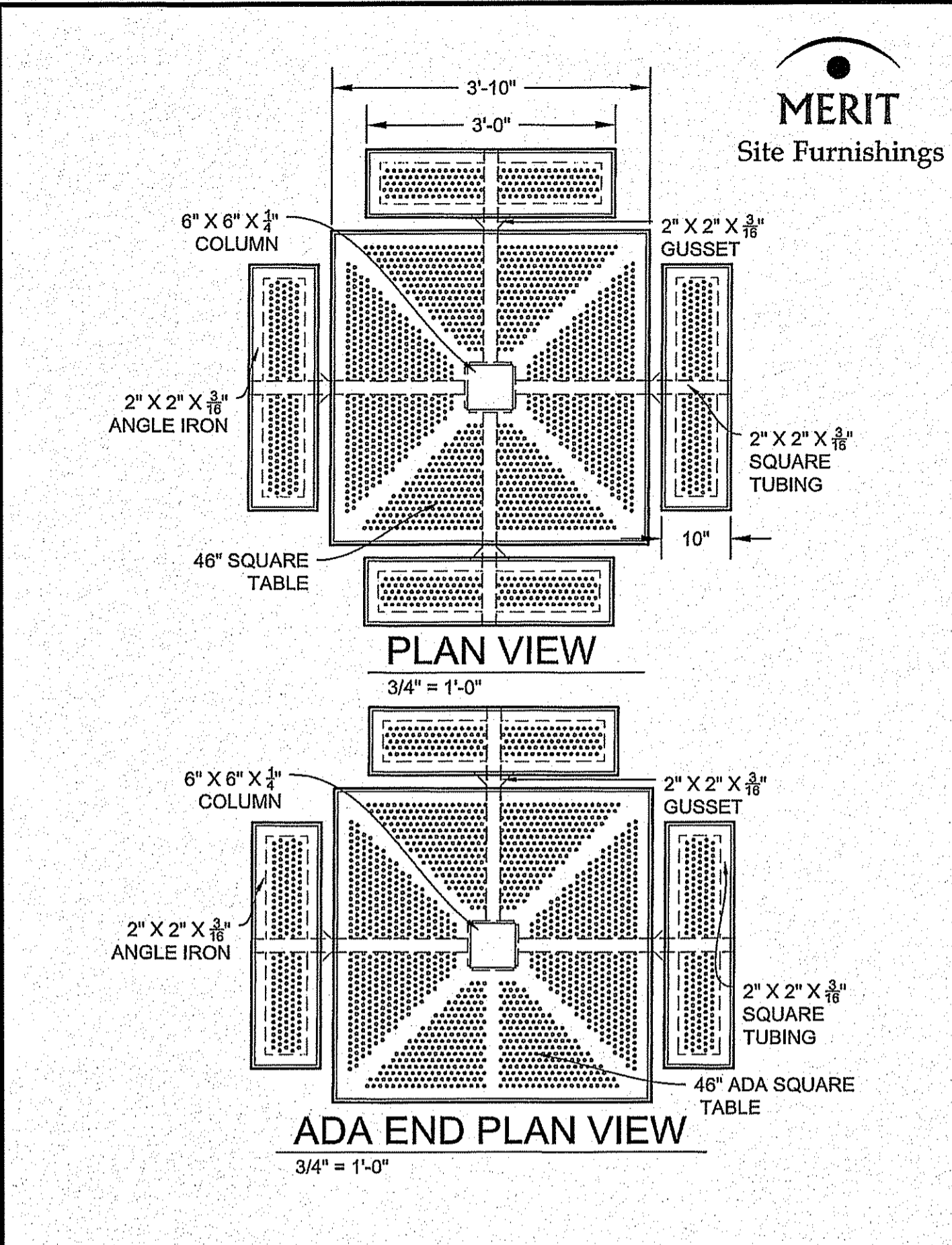
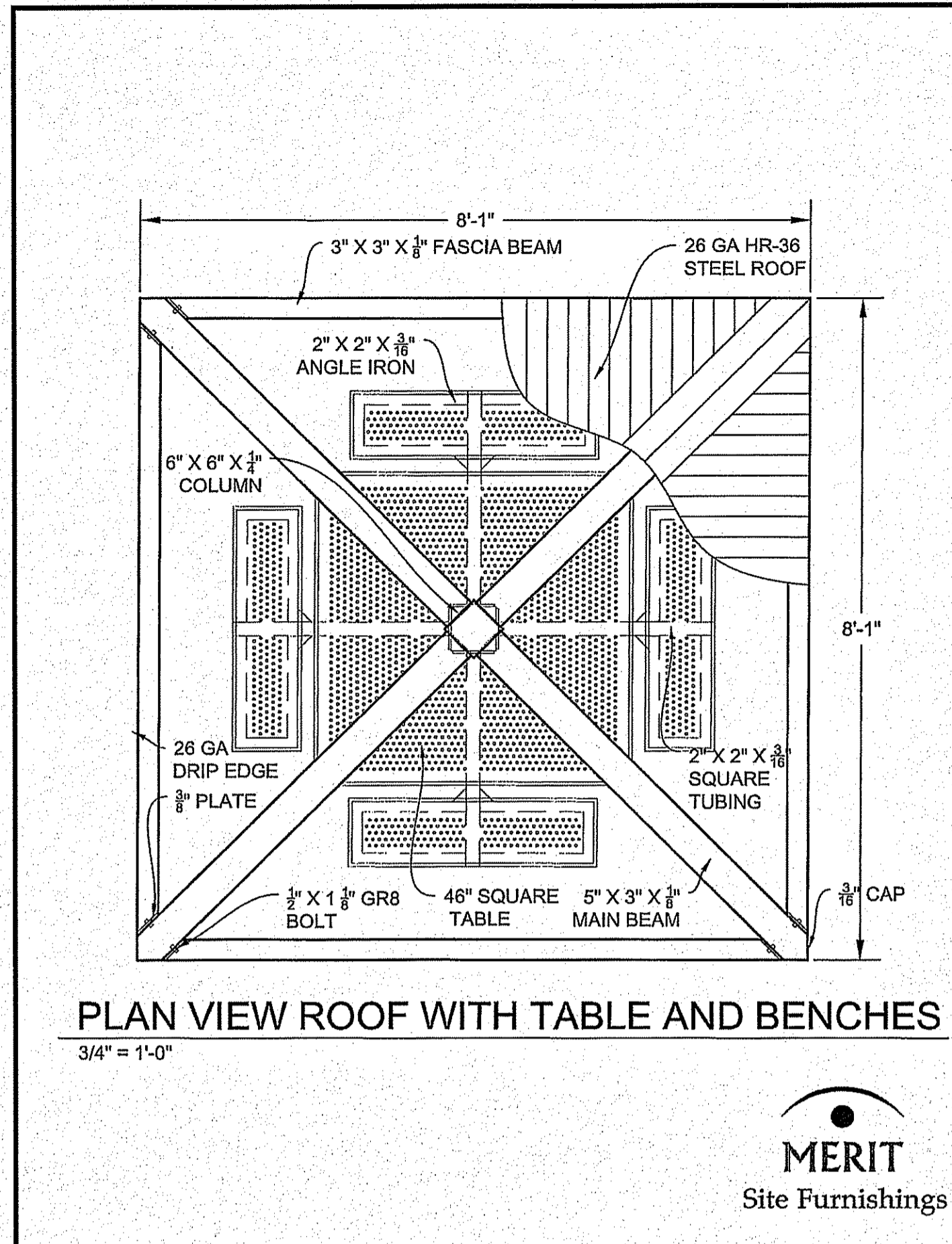
REYUNDO MARTINEZ
9000
RECEIVED

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

LANDSCAPE AND IRRIGATION DETAILS

SHT L9 OF L11

FILE LOCATION S:\LANDSCAPE\MESQUITE HILLS 8\L1 DETAILS PLOTTED ON Wednesday, November 16, 2016 11:05:17 AM BY ESTEBAN JUAREZ



PROPOSED MESQUITE HILLS 8
WHITE MESQUITE PARK
6940 COPPER TOWN DR.
BEING ALL OF LOT 1, BLOCK 50,
MESQUITE HILLS UNIT 8
76,966.91 S.F. OR 1.615 ACRES

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

REYMUENDO MARTINEZ
REGISTERED ENGINEER
9000

PARKS DEPARTMENT
REVIEWED BY: [Signature] 12/08/2016

LANDSCAPE AND IRRIGATION DETAILS

SHT L10 OF L11

CIMARRON LED

Job: _____ Type: _____ Approvals: _____

SPECIFICATIONS

Construction:

- LED drivers have output power over-voltage, over-current protection and short circuit protection with auto recovery.
- 1050 mA driver available with 80L configuration for increased lumen output.
- LED electrical assembly, including PR devices, consumes no power in the "off" state.
- Surge protection - 20KA. Turns fixture off at end of life. Includes LED for end of life indication (see surge suppressor page 4).

Controls:

- Drivers are 0-10V dimming standard. Photocell, occupancy sensor and wireless controls available for complete on/off and dimming control.

Lumen maintenance:

- L80 at 60,000 hours (Projected per IESNA TM-21-11)

Installation:

- Two die-cast aluminum arm designs. The decorative arm offers a sleek, upward look while the straight arm follows the housing's contoured lines for continuity of style.
- Fixture ships with arm installed for ease of installation and mounts to #2 drill pattern.
- Wall bracket, mast arm filter and pole accessories are also available allowing easy mounting for virtually any application.

Finish:

- TSC thermoplastic polyester powder coat finish applied at nominal 2.5 mil thickness.

Warranty:

- Five year limited warranty (for more information visit: <http://www.hubbell.com>).

Electrical:

- Input voltage 120-277 VAC, 50/60 Hz.
- Integral step-down transformer for 347V & 480V.
- Ambient operating temperature -40° C to 40° C.
- Automatic thermal self-protection.
- Drivers have greater than 90% power factor and less than 10% THD.
- Optional continuous dimming to 10% or dual circuitry available.

CERTIFICATIONS/LISTINGS

UL, ETL, Lighting Facts, DLC, Energy Star, UL188, UL1598, UL1885, UL1886, UL1887, UL1888, UL1889, UL1890, UL1891, UL1892, UL1893, UL1894, UL1895, UL1896, UL1897, UL1898, UL1899, UL1900, UL1901, UL1902, UL1903, UL1904, UL1905, UL1906, UL1907, UL1908, UL1909, UL1910, UL1911, UL1912, UL1913, UL1914, UL1915, UL1916, UL1917, UL1918, UL1919, UL1920, UL1921, UL1922, UL1923, UL1924, UL1925, UL1926, UL1927, UL1928, UL1929, UL1930, UL1931, UL1932, UL1933, UL1934, UL1935, UL1936, UL1937, UL1938, UL1939, UL1940, UL1941, UL1942, UL1943, UL1944, UL1945, UL1946, UL1947, UL1948, UL1949, UL1950, UL1951, UL1952, UL1953, UL1954, UL1955, UL1956, UL1957, UL1958, UL1959, UL1960, UL1961, UL1962, UL1963, UL1964, UL1965, UL1966, UL1967, UL1968, UL1969, UL1970, UL1971, UL1972, UL1973, UL1974, UL1975, UL1976, UL1977, UL1978, UL1979, UL1980, UL1981, UL1982, UL1983, UL1984, UL1985, UL1986, UL1987, UL1988, UL1989, UL1990, UL1991, UL1992, UL1993, UL1994, UL1995, UL1996, UL1997, UL1998, UL1999, UL2000, UL2001, 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(5-12 years)



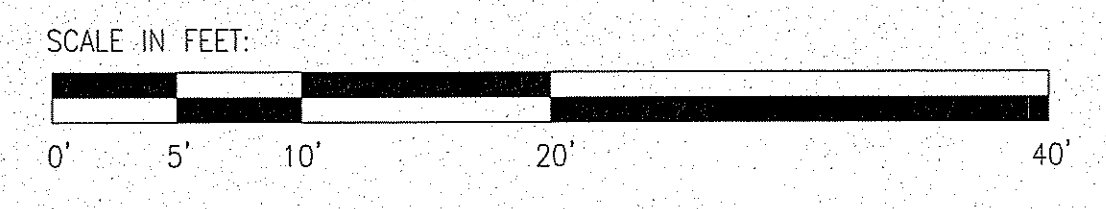
PARKS DEPARTMENT

REVIEWED BY: *Antonio...* 12/08/2016

DESIGNED BY: SLA
 COPYRIGHT: 11/7/2016
 EXERPLAY, INC.
 12001 N HWY 14
 CEDAR CREST, NM 87008
 PH: 1-800-457-5444 FAX: 1-505-281-0155

Date	Previous Drawing #	Initials

TOTAL ELEVATED PLAY COMPONENTS	12		
TOTAL ELEVATED COMPONENTS ACCESSIBLE BY RAMP	0	REQUIRED	0
TOTAL ELEVATED COMPONENTS ACCESSIBLE BY TRANSFER	6	REQUIRED	6
TOTAL ACCESSIBLE GROUND LEVEL COMPONENTS SHOWN	11	REQUIRED	4
TOTAL DIFFERENT TYPES OF GROUND LEVEL COMPONENTS	7	REQUIRED	7



Mesquite Hills 8
El Paso, TX

ExerPlay, Inc.
Nate Tierney

SYSTEM TYPE:
PlayBooster
DRAWING #:
160916A



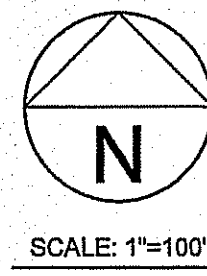
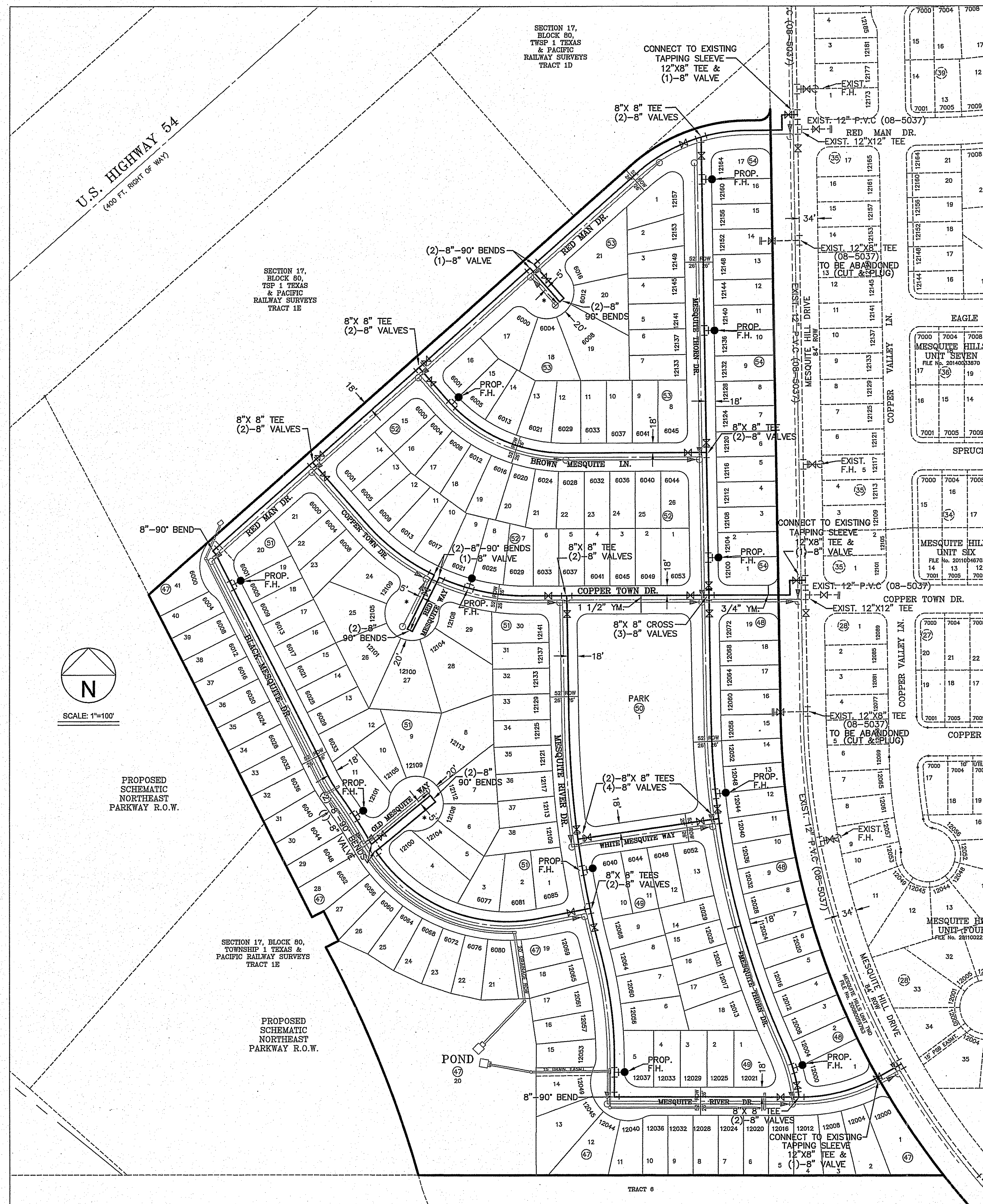
The play components identified on this plan are IPEMA certified. (Unless model number is preceded with *) The use and layout of these components conform to the requirements of ASTM F1487.

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).



PROPOSED SCHEMATIC NORTHEAST PARKWAY R.O.W.

SECTION 17, BLOCK 80, TOWNSHIP 1 TEXAS & PACIFIC RAILWAY SURVEYS TRACT 1B

PROPOSED SCHEMATIC NORTHEAST PARKWAY R.O.W.

STREET NAME	LENGTH, SIZE, TYPE & CLASS OF PIPE
RED MAN DRIVE	INST. 1288 FT. OF 8" P.V.C. PIPE (C/900) (CLASS 235)
RED MAN DRIVE (CUL-DE-SAC)	INST. 174 FT. OF 8" P.V.C. PIPE (C/900) (CLASS 235)
BROWN MESQUITE LANE	INST. 585 FT. OF 8" P.V.C. PIPE (C/900) (CLASS 235)
COPPER TOWN DRIVE	INST. 927 FT. OF 8" P.V.C. PIPE (C/900) (CLASS 235)
MESQUITE THORN DRIVE	INST. 1784 FT. OF 8" P.V.C. PIPE (C/900) (CLASS 235)
MESQUITE RIVER DRIVE	INST. 1409 FT. OF 8" P.V.C. PIPE (C/900) (CLASS 235)
WHITE MESQUITE WAY	INST. 262 FT. OF 8" P.V.C. PIPE (C/900) (CLASS 235)
RED MESQUITE WAY	INST. 232 FT. OF 8" P.V.C. PIPE (C/900) (CLASS 235)
OLD MESQUITE WAY	INST. 294 FT. OF 8" P.V.C. PIPE (C/900) (CLASS 235)
BLACK MESQUITE DRIVE	INST. 1069 FT. OF 8" P.V.C. PIPE (C/900) (CLASS 235)

NOTES:

- PUBLIC WATER AND SEWER UTILITY WORK SHALL NOT BE PERFORMED BY THE CONTRACTOR UNTIL A DEVELOPMENT AGREEMENT HAS BEEN EXECUTED BETWEEN THE OWNER AND THE EPWATER-PSB.
- CONSTRUCTION OF PUBLIC WATER AND SEWER SYSTEM, INCLUDING MATERIALS AND TESTING SHALL CONFORM TO EPWATER-PSB STANDARD SPECIFICATIONS.
- ALL PRESSURIZED PVC PIPE SHALL BE MARKED WITH DUAL INDICATOR LINES AT THE SPIGOT END INDICATING PROPER PENETRATION WHEN THE JOINT IS ASSEMBLED OR BELL PROTECTION SYSTEM.

* A 10 FEET MINIMUM SEPARATION DISTANCE SHALL BE PROVIDED BETWEEN THE WATER MAIN AND THE PROPOSED SANITARY SEWER MAIN.

GENERAL NOTES:

- REFERENCE CENTERLINE SHALL BE CENTERLINE OF RIGHT OF WAY.
- WATER LINES SHALL BE LOCATED ON NORTH OR EAST SIDES OF DEDICATED STREETS OR ALLEYS.
- SEWER LINES SHALL BE LOCATED ON SOUTH OR WEST SIDES OF DEDICATED STREETS OR ALLEYS.
- RECLAIMED LINES SHALL BE LOCATED ON SOUTH OR WEST SIDES OF DEDICATED STREETS OR ALLEYS.

CONSTRUCTION KEY NOTES:

A. DISTANCES FROM CENTERLINE VARY AND SHALL BE ACCORDING TO THE FOLLOWING:

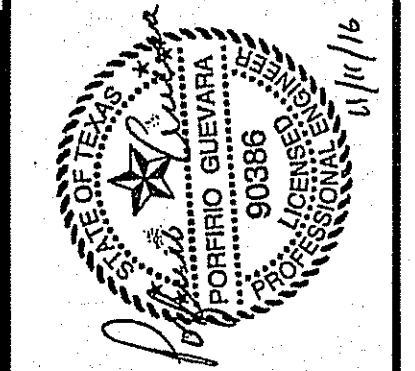
RIGHT-OF-WAY WIDTH*	OFFSET FROM CENTERLINE**		
	WATER	SEWER	RECLAIMED
36 FT.	9 FT.	1 FT.	6 FT.
44 FT.	8 FT.	3 FT.	8 FT.
52 FT.	8 FT.	5 FT.	10 FT.
64 FT.	10 FT.	5 FT.	10 FT.
72 FT.	10 FT.	5 FT.	10 FT.
76 FT.	10 FT.	5 FT.	10 FT.
84 FT.	20 FT.	5 FT.	10 FT.
110 FT.	25 FT.	15 FT.	20 FT.

*RIGHT OF WAY WIDTH SUBJECT TO CHANGE. VERIFY WITH CITY SUBDIVISION ORDINANCE.
 **DISTANCES MAY BE MODIFIED AS NEEDED TO MEET T302 SEPARATION REQUIREMENTS. REFER TO DETAILS 160 THRU 163 FOR ADDITIONAL INFORMATION.

STANDARD DETAIL DATE: 03/1994 REV: 3/28/2007 LOCATION FOR UTILITY LINES el PASO WATER N.T.S. DETAIL No. 140



PSB COMMENTS 11/03/16
 PSB COMMENTS 09/15/16
 PSB COMMENTS 08/11/16
 SUBMITTAL 06/03/16



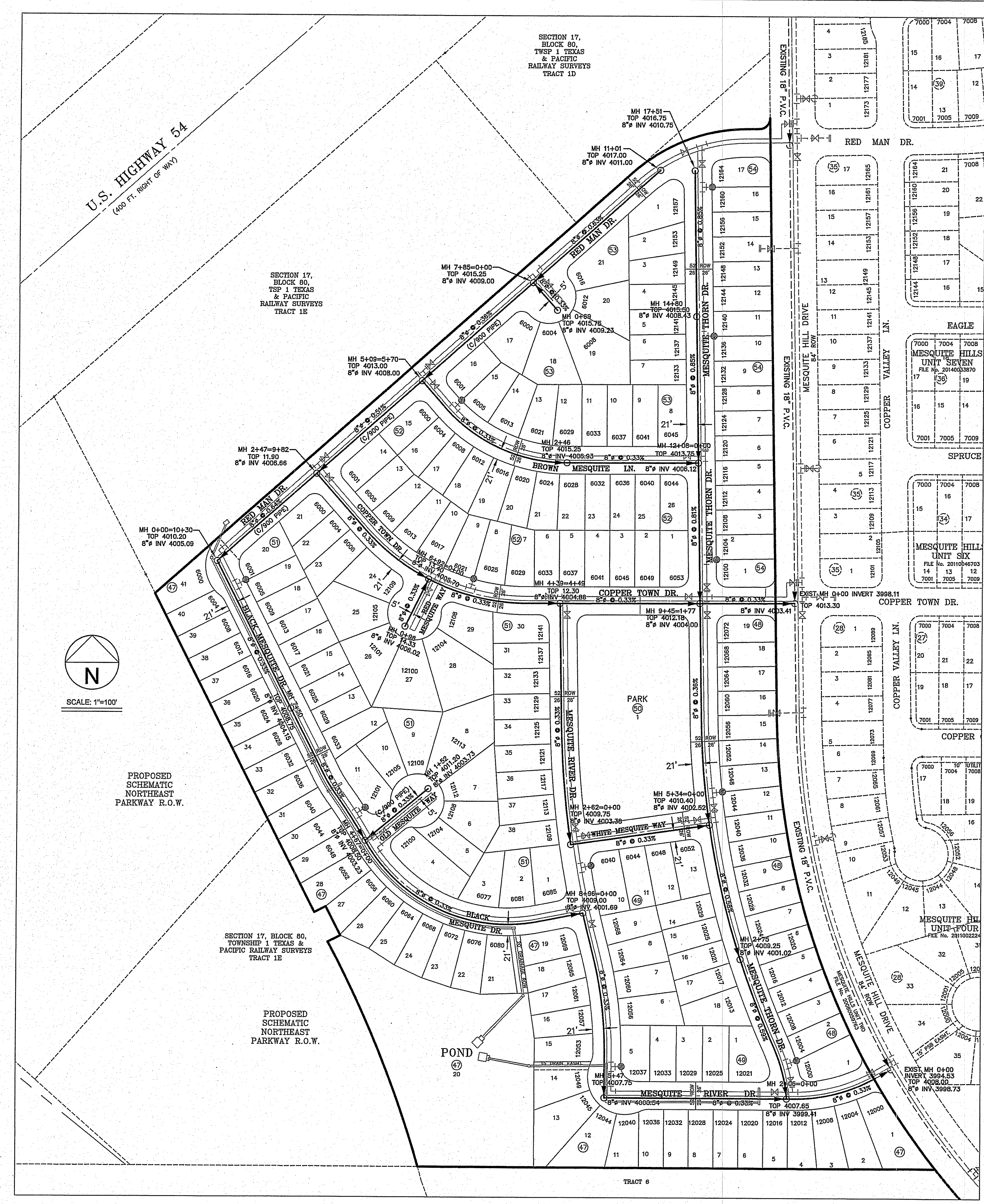
GUEVARA ENGINEERING
 CIVIL ENGINEER
 P.O. BOX 961514
 EL PASO, TEXAS 79996
 (915) 203-5826
 STATE REGISTRATION NO. F-12421

MESQUITE HILLS UNIT 8 SUBDIVISION

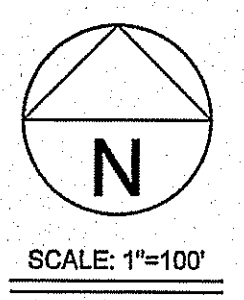
CITY OF EL PASO
 EL PASO COUNTY, TEXAS

WATER DISTRIBUTION SYSTEM

DATE: MAY 2016
 SCALE: AS SHOWN
 JOB NO.:
 SHEET NO.:
SHT. 1 OF 7



U.S. HIGHWAY 54
(400 FT. RIGHT OF WAY)



PROPOSED SCHEMATIC NORTHEAST PARKWAY R.O.W.

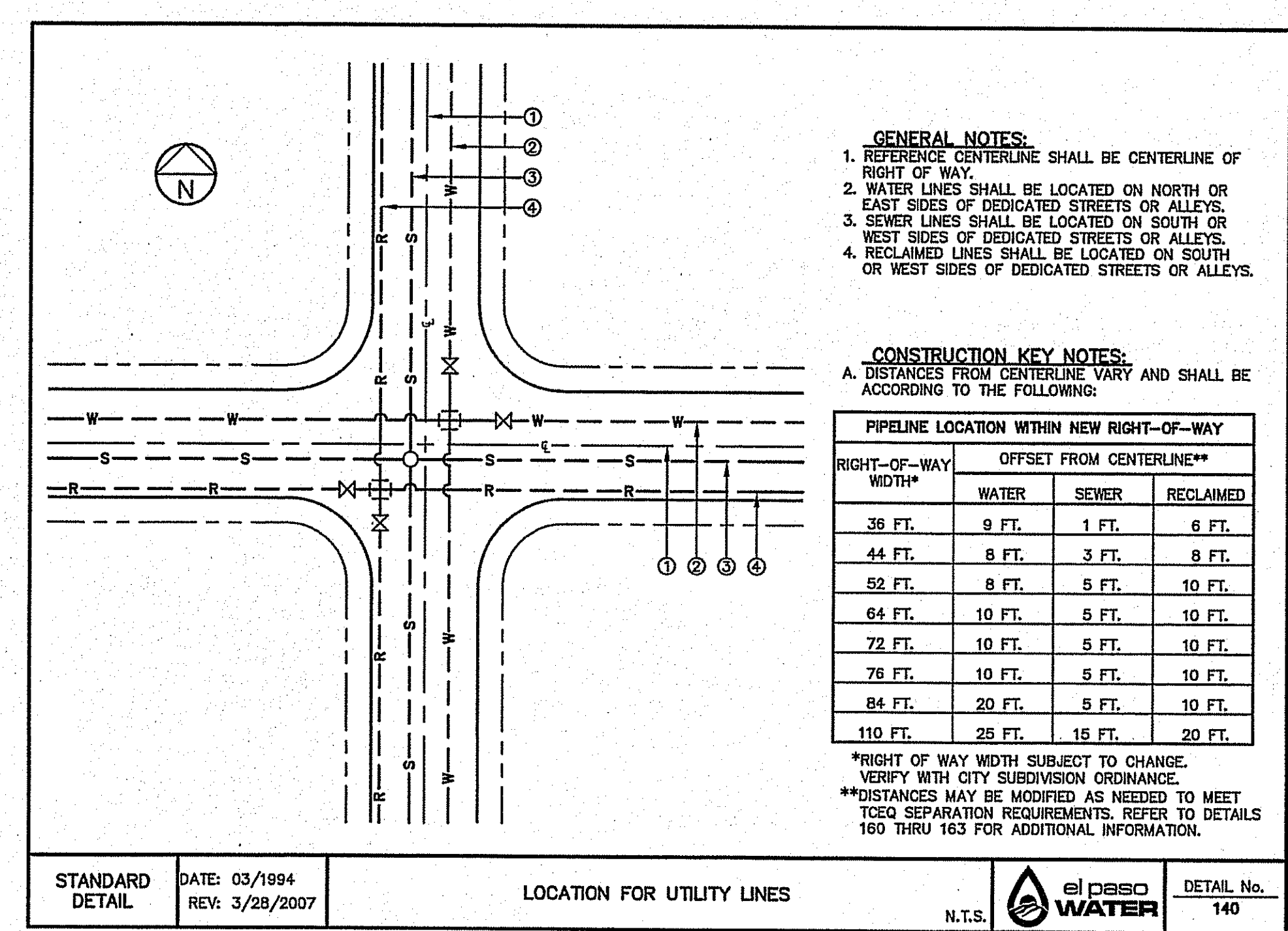
SECTION 17, BLOCK 80, TOWNSHIP 1 TEXAS & PACIFIC RAILWAY SURVEYS TRACT 1E

PROPOSED SCHEMATIC NORTHEAST PARKWAY R.O.W.

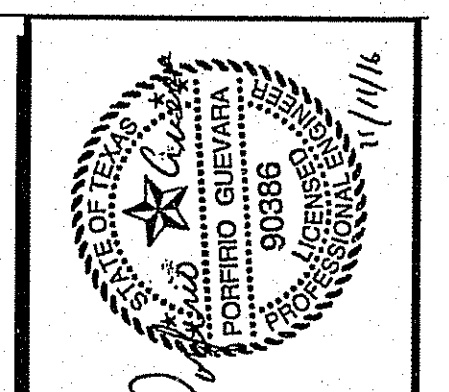
SECTION 17, BLOCK 80, TOWNSHIP 1 TEXAS & PACIFIC RAILWAY SURVEYS TRACT 1D

TRACT 8

STREET NAME	LENGTH, SIZE & TYPE OF PIPE
RED MAN DRIVE	INST. 316 FT. OF 8" P.V.C. PIPE (SDR 35)
RED MAN DRIVE	INST. 785 FT. OF 8" P.V.C. PIPE (C/900)
RED MAN DRIVE (CUL-DE-SAC)	INST. 69 FT. OF 8" P.V.C. PIPE (SDR 35)
BROWN MESQUITE LANE	INST. 570 FT. OF 8" P.V.C. PIPE (SDR 35)
COPPER TOWN DRIVE	INST. 982 FT. OF 8" P.V.C. PIPE (SDR 35)
MESQUITE THORN DRIVE	INST. 1751 FT. OF 8" P.V.C. PIPE (SDR 35)
MESQUITE RIVER DRIVE	INST. 1345 FT. OF 8" P.V.C. PIPE (SDR 35)
WHITE MESQUITE WAY	INST. 262 FT. OF 8" P.V.C. PIPE (SDR 35)
RED MESQUITE WAY	INST. 98 FT. OF 8" P.V.C. PIPE (SDR 35)
OLD MESQUITE WAY	INST. 152 FT. OF 8" P.V.C. PIPE (C/900)
BLACK MESQUITE DRIVE	INST. 467 FT. OF 8" P.V.C. PIPE (SDR 35)



Final Approval



GUEVARA ENGINEERING
CIVIL ENGINEER
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(915) 203-5826
STATE REGISTRATION NO. F-12421

MESQUITE HILLS UNIT 8 SUBDIVISION
CITY OF EL PASO
EL PASO COUNTY, TEXAS

SANITARY SEWER SYSTEM

DATE: MAY 2014
SCALE: AS SHOWN
JOB NO.:
SHEET NO.: **SHT. 2 OF 7**

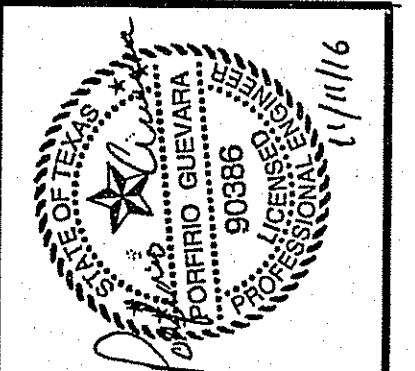
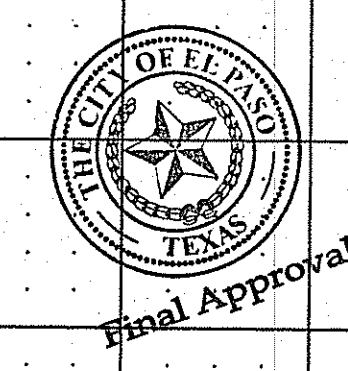
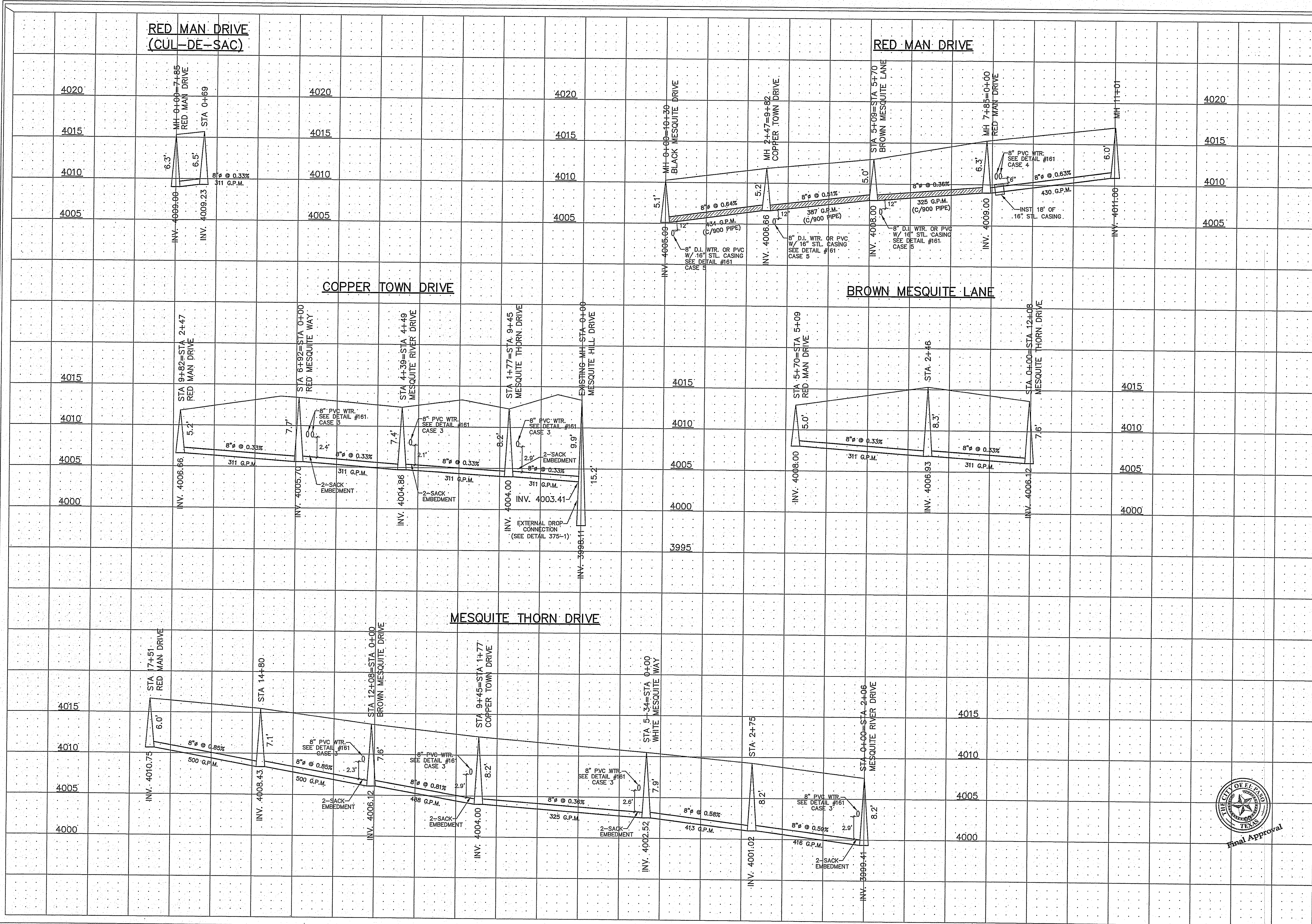
RED MAN DRIVE
(CUL-DE-SAC)

RED MAN DRIVE

COPPER TOWN DRIVE

BROWN MESQUITE LANE

MESQUITE THORN DRIVE

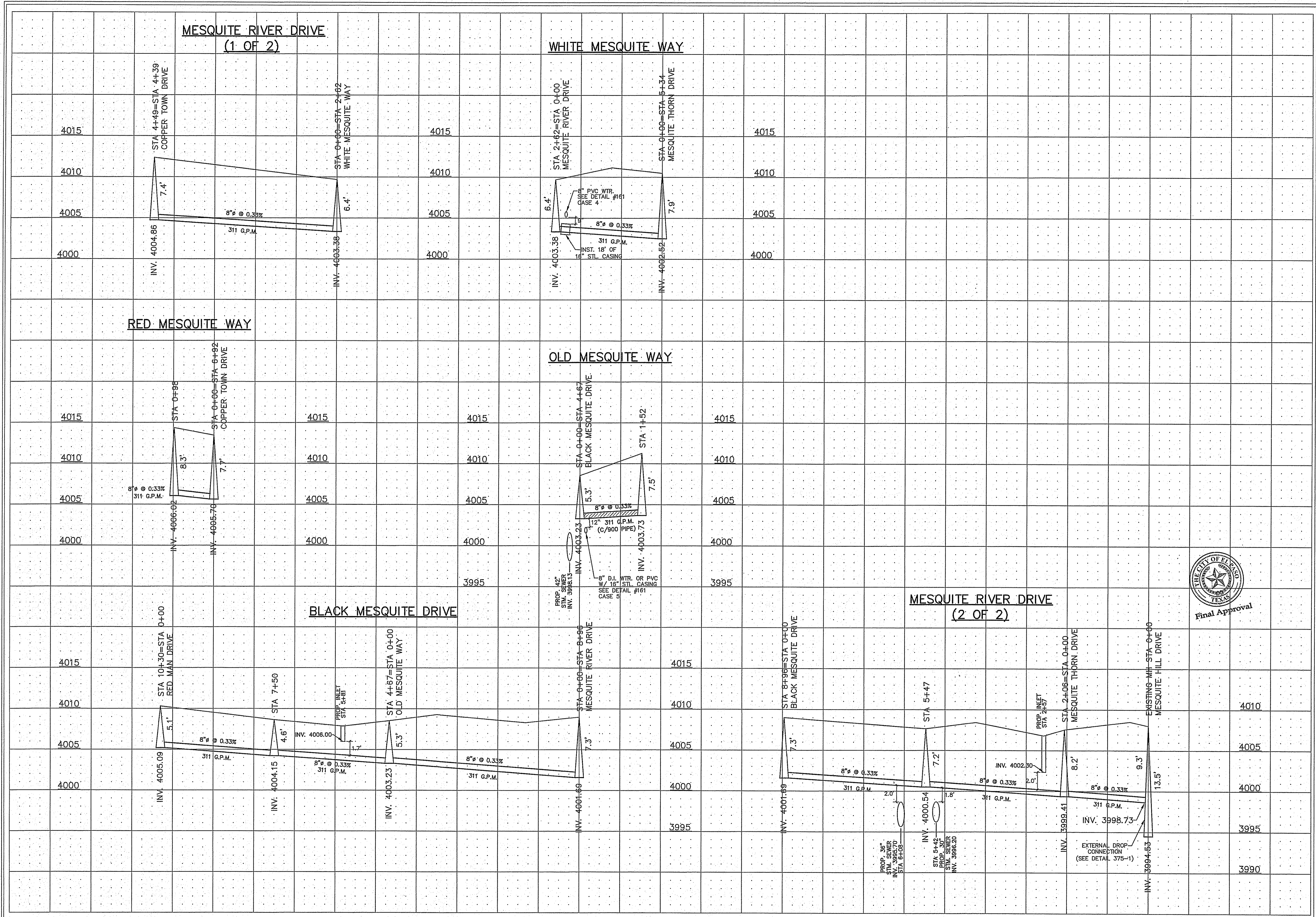


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 STATE REGISTRATION NO. F-12421

**MESQUITE HILLS UNIT 8
 SUBDIVISION**
 CITY OF EL PASO
 EL PASO COUNTY, TEXAS

**SANITARY
 SEWER
 PROFILES**

DATE:	MAY 2016
SCALE:	AS SHOWN
JOB NO.:	
SHEET NO.:	SHT. 3 OF 7



MESQUITE RIVER DRIVE
(1 OF 2)

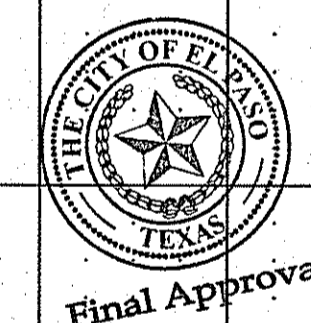
WHITE MESQUITE WAY

RED MESQUITE WAY

OLD MESQUITE WAY

BLACK MESQUITE DRIVE

MESQUITE RIVER DRIVE
(2 OF 2)

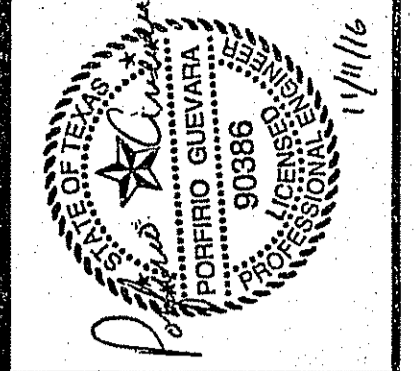


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**MESQUITE HILLS UNIT 8
 SUBDIVISION**
 CITY OF EL PASO
 EL PASO COUNTY, TEXAS

**SANITARY
 SEWER
 PROFILES**

DATE: MAY 2016
 SCALE: AS SHOWN
 JOB NO.:
 SHEET NO.:
SHT. 4 OF 7

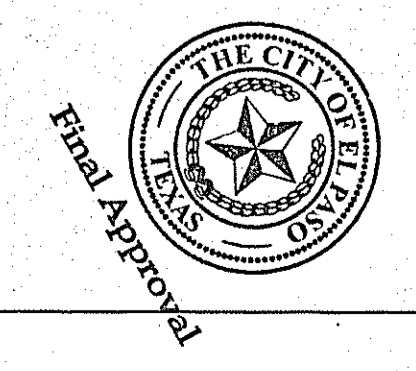


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 (915) 203-5826
 STATE REGISTRATION NO. F-12421

**MESQUITE HILLS UNIT 8
 SUBDIVISION**
 CITY OF EL PASO
 EL PASO COUNTY, TEXAS

**WATER
 DETAILS**

DATE: MAY 2016
 SCALE: AS SHOWN
 JOB NO.:
 SHEET NO.: **SHT. 5 OF 7**



GENERAL NOTES:

- REFERENCE CENTERLINE SHALL BE CENTERLINE OF RIGHT OF WAY.
- WATER LINES SHALL BE LOCATED ON NORTH OR EAST SIDES OF DEDICATED STREETS OR ALLEYS.
- SEWER LINES SHALL BE LOCATED ON SOUTH OR WEST SIDES OF DEDICATED STREETS OR ALLEYS.
- RECLAIMED LINES SHALL BE LOCATED ON SOUTH OR WEST SIDES OF DEDICATED STREETS OR ALLEYS.

CONSTRUCTION KEY NOTES:

A. DISTANCES FROM CENTERLINE VARY AND SHALL BE ACCORDING TO THE FOLLOWING:

RIGHT-OF-WAY WIDTH*	PIPELINE LOCATION WITHIN NEW RIGHT-OF-WAY		
	WATER	SEWER	RECLAIMED
36 FT.	9 FT.	1 FT.	6 FT.
44 FT.	8 FT.	3 FT.	8 FT.
52 FT.	8 FT.	5 FT.	10 FT.
64 FT.	10 FT.	5 FT.	10 FT.
72 FT.	10 FT.	5 FT.	10 FT.
76 FT.	10 FT.	5 FT.	10 FT.
84 FT.	20 FT.	5 FT.	10 FT.
110 FT.	25 FT.	15 FT.	20 FT.

*RIGHT OF WAY WIDTH SUBJECT TO CHANGE. VERIFY WITH CITY SUBDIVISION ORDINANCE.
 **DISTANCES MAY BE MODIFIED AS NEEDED TO MEET TCEQ SEPARATION REQUIREMENTS. REFER TO DETAILS 160 THRU 163 FOR ADDITIONAL INFORMATION.

STANDARD DETAIL DATE: 03/1994 REV: 3/28/2007 **LOCATION FOR UTILITY LINES** N.T.S. **el PASO WATER** DETAIL No. 140

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 AWMA 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.
- 2" THICK STEEL TRASH RING VALVE BOX INSIDE DIAMETER MINUS 1/2".
- 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 DETAIL 184-1) FLUSH WITH TOP OF H.M.A.C.
- BONNET BOX FLUSH WITH TOP OF CONCRETE.
- CONCRETE APRON (SEE DETAIL 184-2) FLUSH WITH BONNET BOX AND 2" ABOVE NATURAL GROUND.

STANDARD DETAIL DATE: 5/1994 REV: 6/22/2009 **GATE VALVE INSTALLATION** N.T.S. **el PASO WATER** DETAIL No. 260

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.
- ANNUAL SPACE SHALL BE LEFT OPEN FOR CATHODICALLY PROTECTED SYSTEM WHERE BOTH CASING AND CARRIER PIPE ARE METALLIC MATERIAL, OR AS OTHERWISE SPECIFIED.
- PRESSURE GROUT ANNUAL 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).

STANDARD DETAIL DATE: 3/1994 REV: 1/7/2013 **CARRIER PIPE INSTALLATION WITH CASING INSULATORS** N.T.S. **el PASO WATER** DETAIL No. 180

GENERAL NOTES:

- BEDDING FOR PRESSURE AND GRAVITY PIPE IN DRY CONDITIONS.
- PROVIDE TRENCH SAFETY SYSTEM FOR TRENCH DEPTHS GREATER THAN 5 FEET.
- IF THE NATIVE MATERIAL EXCAVATED FROM THE TRENCH IS UNSUITABLE AS BACKFILL MATERIAL, OR THE REQUIRED COMPACTION IS UNATTAINABLE, THE CONTRACTOR SHALL AT HIS EXPENSE, IMPORT SELECT MATERIAL TO BE MIXED WITH OR USED IN PLACE OF THE NATIVE MATERIAL. SELECT MATERIAL MUST BE APPROVED BY EPWU. SUBSTITUTE SOIL CEMENT SLURRY (1-SACK) IF REQUIRED IN SPECS.

CONSTRUCTION KEY NOTES:

- APPROVED MARKING TAPE.
- UNDISTURBED STABLE MATERIAL.
- NATIVE MATERIAL BACKFILL. PAVED CONDITIONS: COMPACT TO 90% DENSITY PER ASTM D-1557 MODIFIED PROCTOR. UNPAVED CONDITIONS: COMPACT TO 85% DENSITY PER ASTM D-1557 MODIFIED PROCTOR. (*SEE NOTE #3 IF THESE PREVIOUS CONDITIONS CANNOT BE MET.)
- SLOPE TRENCH IN SANDY SOIL CONDITIONS.
- USE CLASS II OR CLASS III SAND PER ASTM D-2487. NATIVE MATERIAL OR IMPORTED SELECT MATERIAL MEETING OR EXCEEDING THIS REQUIREMENT MAY BE USED. COMPACT TO 85% DENSITY PER ASTM D-1557 MODIFIED PROCTOR (OR 90% D-685 STANDARD PROCTOR).
- APPROVED PIPE.
- TRENCH DIMENSIONS AS FOLLOWS:

PIPE DIAMETER	1"	2"
6" - 30"	4"	6"
GREATER THAN 30"	4"	6"
PIPE DIAMETER	6"	8"
6" - 30"	6"	8"
GREATER THAN 30"	6"	12"

STANDARD DETAIL DATE: 4/24/2007 REV: 2/21/2011 **EMBEDMENT CLASS "A" FOR PRESSURE PIPE AND GRAVITY PIPE DRY CONDITIONS** N.T.S. **el PASO WATER** DETAIL No. 171

GENERAL NOTES:

- NEW OR EXISTING POTABLE WATER AND SANITARY SEWER MAINS.
- SEPARATION DISTANCES SHALL FOLLOW TEXAS COMMISSION ON ENVIRONMENTAL QUALITY STANDARD REQUIREMENTS.

CONSTRUCTION KEY NOTES:

WHEN STANDARD (IDE (B) FOOT SEPARATION DISTANCE CANNOT BE ACHIEVED, SEPARATION SHALL BE DETERMINED ACCORDING TO THE FOLLOWING CONDITIONS:

- GRAVITY SANITARY SEWER MAIN OR FORCE MAIN PARALLEL TO POTABLE WATER MAIN (PER TCEQ §200.44(a)(9)(A) AND §200.44(a)(9)(B)).
 - LOCATION: WATER ABOVE SEWER OR FORCE MAIN.
 - SEWER MATERIALS: EXISTING GRAVITY MAIN PVC (SDR35 OR CLAY) OR FORCE MAIN TO REMAIN IF NOT LEAKING IF LEAKING, MUST BE REPLACED WITH PVC (160 PIP) OR NEW GRAVITY MAIN OR FORCE MAIN REQUIRES PVC (160 PIP) OR DI. SEPARATE TRENCHES SHALL BE USED.
- NEW POTABLE WATER MAIN CROSSING EXISTING GRAVITY SANITARY SEWER MAIN OR EXISTING FORCE MAIN (PER TCEQ §200.44(a)(9)(A) AND §200.44(a)(9)(B)).
 - LOCATION: WATER ABOVE SEWER OR FORCE MAIN.
 - SEWER MATERIALS: EXISTING GRAVITY MAIN PVC (SDR35 OR CLAY) OR FORCE MAIN TO REMAIN IF NOT LEAKING IF LEAKING, REPLACE ONE PIPE SEGMENT PER CASE 3 REQUIREMENTS.
 - CENTER ONE SEGMENT OF WATER PIPE OVER SEWER MAIN OR FORCE MAIN.
 - MINIMUM PIPE SEGMENT LENGTH FOR WATER PIPE SHALL BE 10 FEET LONG.
- NEW POTABLE WATER MAIN CROSSING NEW GRAVITY SANITARY SEWER MAIN OR NEW FORCE MAIN (PER TCEQ §200.44(a)(9)(A) AND §200.44(a)(9)(B)).
 - LOCATION: WATER ABOVE SEWER OR FORCE MAIN.
 - SEWER MATERIALS: NEW GRAVITY MAIN - PVC (160 PIP) OR DI REQUIRED, CENTER UNDER WATER MAIN. NEW FORCE MAIN - PVC (SDR35) OR DI REQUIRED, FORCE MAIN TO BE EMBEDDED IN CEMENT STABILIZED BACKFILL THE TOTAL LENGTH OF ONE PIPE PLUS 12" BEYOND THE JOINT AT EACH END.
 - CENTER ONE SEGMENT OF WATER PIPE OVER SEWER PIPE OR FORCE MAIN.
 - MINIMUM PIPE SEGMENT LENGTH FOR WATER AND SEWER SHALL BE 10 FEET LONG.
 - FOR NEW GRAVITY SEWER ONLY, IN LIEU OF PVC (160 PIP) OR DI, INSTALL ONE PIPE SEGMENT OF BORIS; SEWER MAIN MUST BE EMBEDDED IN CEMENT STABILIZED BACKFILL THE TOTAL LENGTH OF ONE PIPE PLUS 12" BEYOND THE JOINT AT EACH END.
- NEW POTABLE WATER MAIN CROSSING NEW GRAVITY SANITARY SEWER MAIN OR NEW FORCE MAIN (PER TCEQ §200.44(a)(9)(A) AND §200.44(a)(9)(B)).
 - LOCATION: WATER ABOVE SEWER OR FORCE MAIN.
 - SEWER MATERIALS: NEW GRAVITY MAIN - SD35S ACCEPTABLE. NEW FORCE MAIN - PVC (160 PIP) OR DI REQUIRED. IN ADDITION, SEWER MAIN OR FORCE MAIN MUST BE ENCASED IN DI OR STEEL, TWO NOMINAL SIZES LARGER THAN MAIN AND AT LEAST 18 FEET LONG.
 - CENTER ONE SEGMENT OF WATER PIPE ON WATER MAIN.
- NEW GRAVITY SANITARY SEWER MAIN OR NEW FORCE MAIN CROSSING NEW POTABLE WATER MAIN (PER TCEQ §200.44(a)(9)(A) AND §200.44(a)(9)(B)).
 - LOCATION: SEWER OR FORCE MAIN UNDER WATER.
 - NEW GRAVITY MAIN OR FORCE MAIN REQUIRES ONE PIPE SEGMENT OF PVC (160 PIP) OR DI. IN ADDITION, WATER MUST BE DI OR STEEL OR ENCASED IN DI OR STEEL, TWO NOMINAL SIZES LARGER THAN MAIN AND AT LEAST 18 FEET LONG.
 - CENTER ONE SEGMENT OF SEWER PIPE ON WATER MAIN.

STANDARD DETAIL DATE: 8/3/2006 REV: 8/21/2007 **SEPARATION DISTANCE SANITARY SEWER AND POTABLE WATER (SPECIAL CONDITIONS)** N.T.S. **el PASO WATER UTILITIES PUBLIC SAFETY DIVISION** DETAIL No. 161

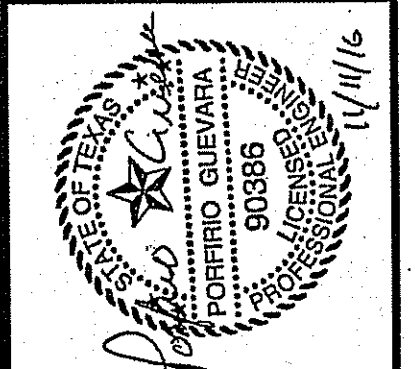
GENERAL NOTES:

- NO OBSTRUCTIONS WILL BE PERMITTED WITHIN 5 FT. IN ALL DIRECTIONS OF FIRE HYDRANT. CITY OF EL PASO MUNICIPAL CODE, TITLE 12, FIRE HYDRANT SHALL NOT BE PLACED IN WHEEL CHAIR RAMP OR DRIVEWAY.
- FIRE HYDRANT SHALL BE LOCATED AT THE BEGINNING OF CURB RETURN OR AT THE PROPERTY LINE COMMON TO ADJOINING LOTS, UNLESS OTHERWISE SHOWN ON PLANS. REFER TO DETAIL NO. 282 FOR SPECIAL CASES.
- WHERE DISTANCE IS LESS THAN 7', HYDRANT SHALL BE INSTALLED IN ACCORDANCE WITH DETAIL NO. 282. VALVE MAY BE CONNECTED TO TEE AT MAIN LINE. USE FLANGED MECHANICAL JOINT ENDS. WHERE SPOOL IS REQUIRED BETWEEN TEE AND VALVE, USE FLANGED MECHANICAL ENDS WITH 3/4" DIAMETER TIE RODS.
- COMPLY WITH REQUIREMENTS OF AWMA C-502, DRY BARREL FIRE HYDRANTS AND AWMA C-550, PROTECTIVE EPOXY INTERIOR COATINGS FOR VALVES AND HYDRANTS.
- WHEN INSTALLATION IS WITHIN 100' RIGHT OF WAY, HYDRANT SHALL NOT BE PLACED IN SIDEWALK AREA OR ANY CLOSER THAN 5' FROM BACK OF CURB.

CONSTRUCTION KEY NOTES:

- FIRE HYDRANT PER SPEC'S.
- PUMPER NOZZLE 4" TO BE FACING THE TRAVELED WAY, UNLESS OTHERWISE NOTED IN THE PLANS.
- HOSE NOZZLE 2 1/2".
- 2" PREMOLDED EXPANSION JOINT WITH 1" TOP FILLER. 3"x3"x3" CONC. SO. PAD, TO BE CONSTRUCTED AROUND FIRE HYDRANT'S CENTER LINE WHEN NOT LOCATED WITHIN SIDEWALK OR CONC. AREA.
- #10, 5/8 W/F.
- CONTROLLED ELEVATION LINE, LEVEL IN ALL DIRECTIONS. CONTRACTOR SHALL BE RESPONSIBLE FOR SETTING TOP OF SLAB TO THE HYDRANT TO CONTROLLED ELEVATION.
- CONC. THRUST BLOCK, APPROX. 2'x2'x3" TO BE POURED AGAINST UNDISTURBED EARTH, F.H. WEEP HOLE MUST BE UNOBSTRUCTED.
- 1" 2"x1/4" STEEL ANCHOR PINS.
- TOP OF SLAB SHALL BE AT CURB LEVEL 4" BELOW THE BREAK LINE OF THE HYDRANT. UNDER SPECIAL CONDITIONS THE ENGINEER MAY ALLOW VARIATIONS TO THIS CONSTRUCTION.
- MAXIMUM OF ONE (1) SPOOL EXTENSION ALLOWED TO MAINTAIN THE CONTROLLED ELEVATION LINE TO TOP OF SLAB. ADDITIONAL ADJUSTMENT MUST BE MADE WITH OFFSETS & FITTINGS AS NEEDED.
- REQUIRED - DAVIDSON ANTI TERRORISM CORROSION RESISTANT VALVE KIT (DATV).

STANDARD DETAIL DATE: 2/1993 REV: 10/1/2013 **FIRE HYDRANT INSTALLATION** N.T.S. **el PASO WATER** DETAIL No. 280-1

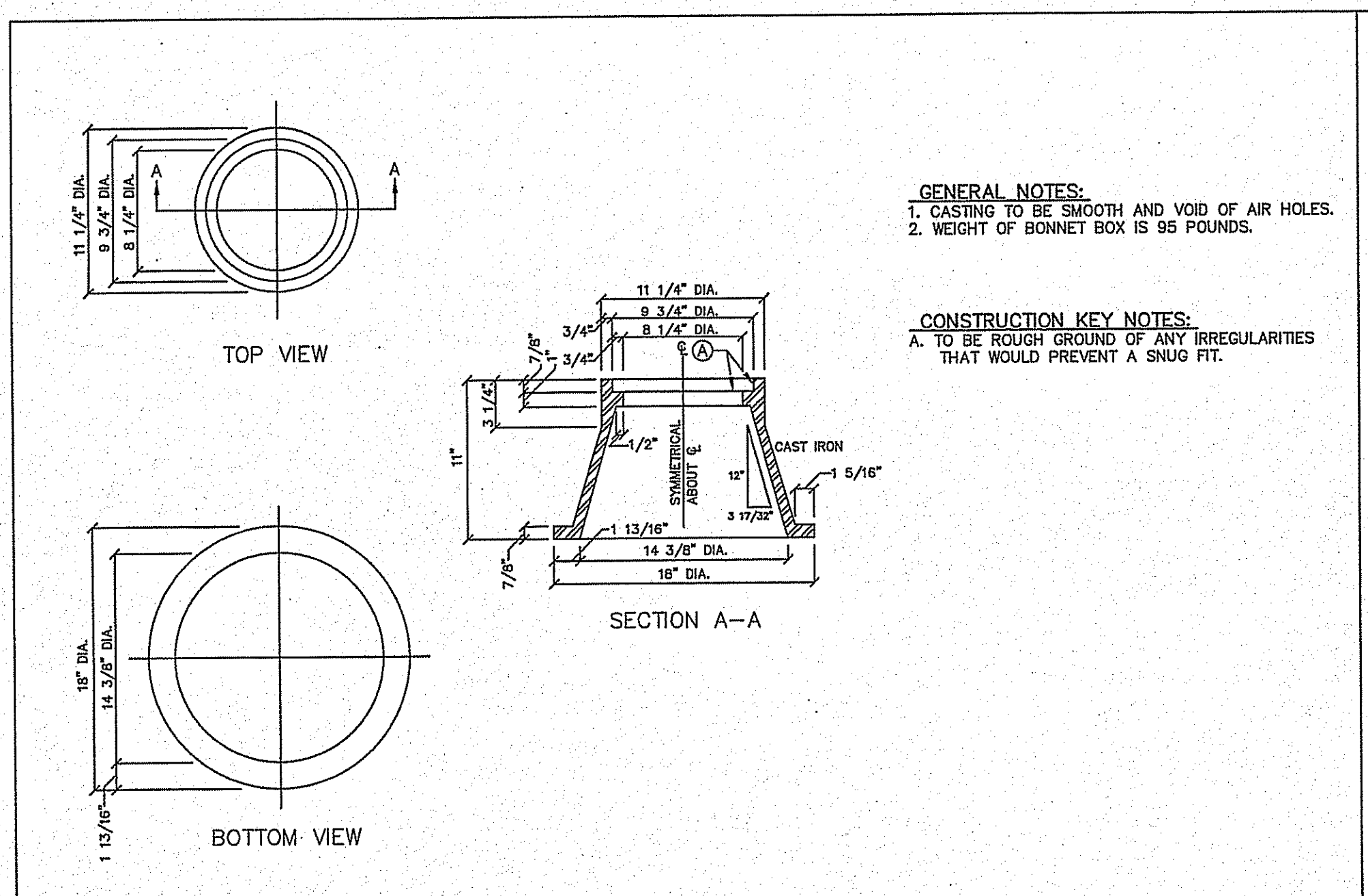


GUEVARA ENGINEERING
 P.O. BOX 961514
 EL PASO, TEXAS 79996
 (915) 203-5826
 STATE REGISTRATION NO. F-12421

**MESQUITE HILLS UNIT 8
 SUBDIVISION**
 CITY OF EL PASO
 EL PASO COUNTY, TEXAS

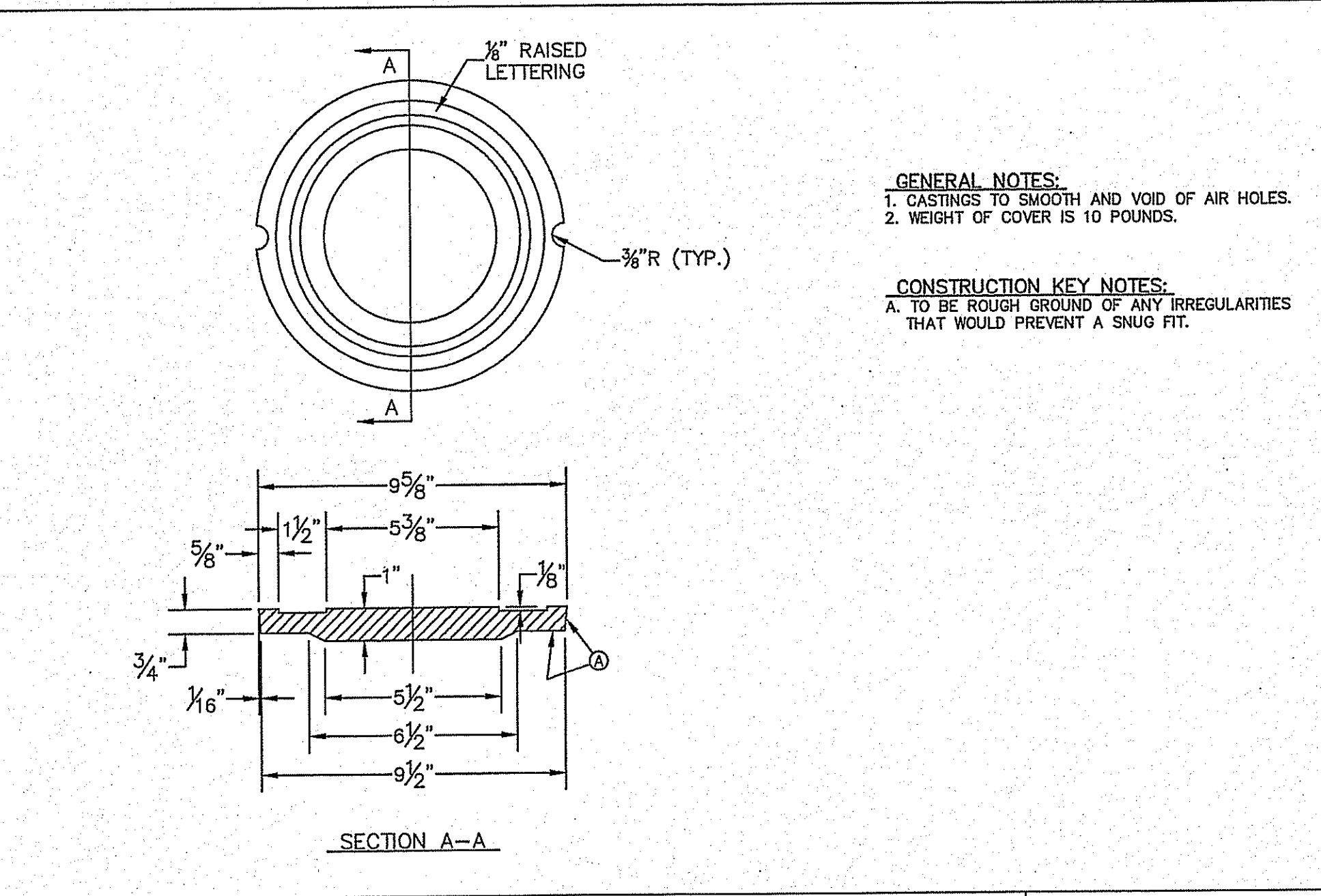
**WATER
 DETAILS**

DATE: MAY 2016
 SCALE: AS SHOWN
 JOB NO.:
 SHEET NO.:
SHT. 6 OF 7



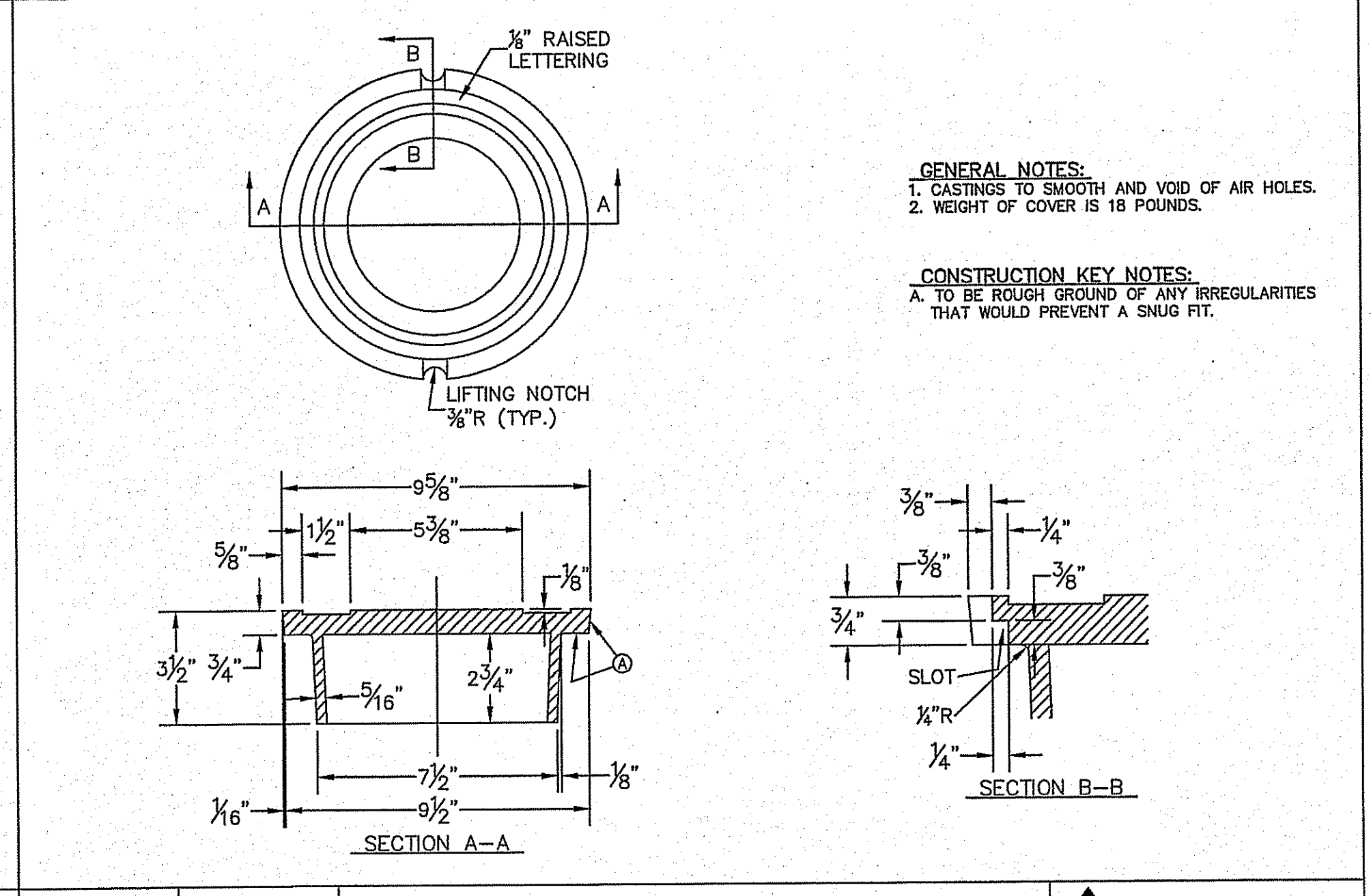
GENERAL NOTES:
 1. CASTING TO BE SMOOTH AND VOID OF AIR HOLES.
 2. WEIGHT OF BONNET BOX IS 95 POUNDS.

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



GENERAL NOTES:
 1. CASTINGS TO SMOOTH AND VOID OF AIR HOLES.
 2. WEIGHT OF COVER IS 10 POUNDS.

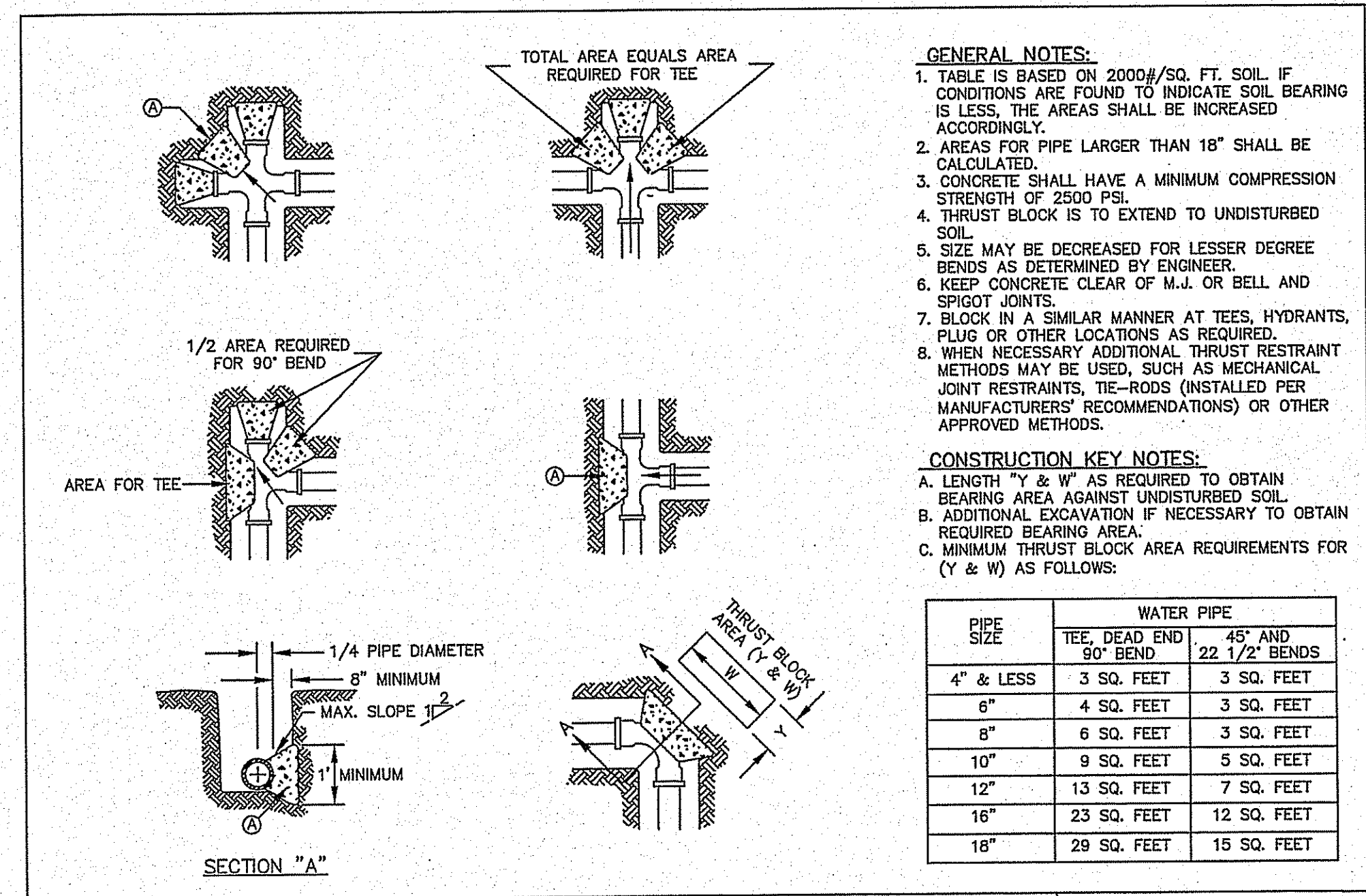
CONSTRUCTION KEY NOTES:
 A. TO BE ROUGH GROUND OF ANY IRREGULARITIES THAT WOULD PREVENT A SNUG FIT.



GENERAL NOTES:
 1. CASTINGS TO SMOOTH AND VOID OF AIR HOLES.
 2. WEIGHT OF COVER IS 18 POUNDS.

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

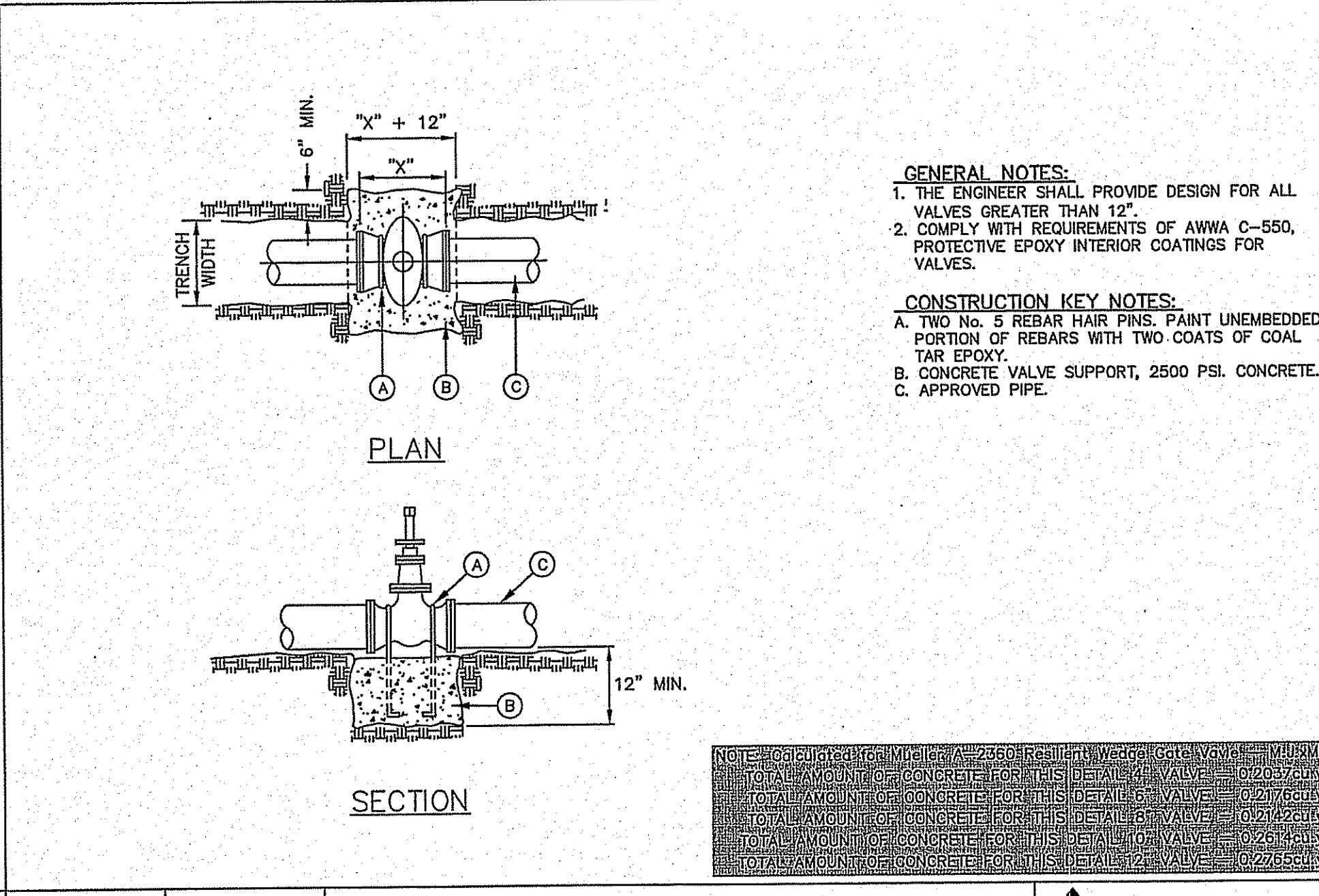
STANDARD DETAIL	DATE: 2/1994 REV:	BONNET BOX	N.T.S. DETAIL No. 268	STANDARD DETAIL	DATE: 2/1994 REV: 11/1/2007	BONNET BOX COVER	N.T.S. DETAIL No. 269-1	STANDARD DETAIL	DATE: 2/16/2008 REV: 12/14/2007	BONNET BOX COVER (FLIP RESISTANT)	N.T.S. DETAIL No. 269-2
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GENERAL NOTES:
 1. TABLE IS BASED ON 2000#/SQ. FT. SOIL. IF CONDITIONS ARE FOUND TO INDICATE SOIL BEARING IS LESS, THE AREAS SHALL BE INCREASED ACCORDINGLY.
 2. AREAS FOR PIPE LARGER THAN 18\"/>

PIPE SIZE	WATER PIPE	
	TEE, DEAD END	45° AND 90° BEND
4\"/>		

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



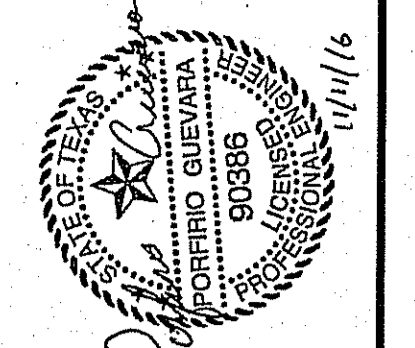
GENERAL NOTES:
 1. THE ENGINEER SHALL PROVIDE DESIGN FOR ALL VALVES GREATER THAN 12\"/>

CONSTRUCTION KEY NOTES:
 A. TWO No. 5 REBAR HAIR PINS. PAINT UNEMBEDDED PORTION OF REBARS WITH TWO COATS OF COAL TAR EPOXY.
 B. CONCRETE VALVE SUPPORT, 2500 PSI. CONCRETE.
 C. APPROVED PIPE.

NOTES: CONCRETE VALVE SUPPORT SHALL BE 2500 PSI. CONCRETE. REBAR SHALL BE 5 BAR. VALVE SHALL BE 12\"/>

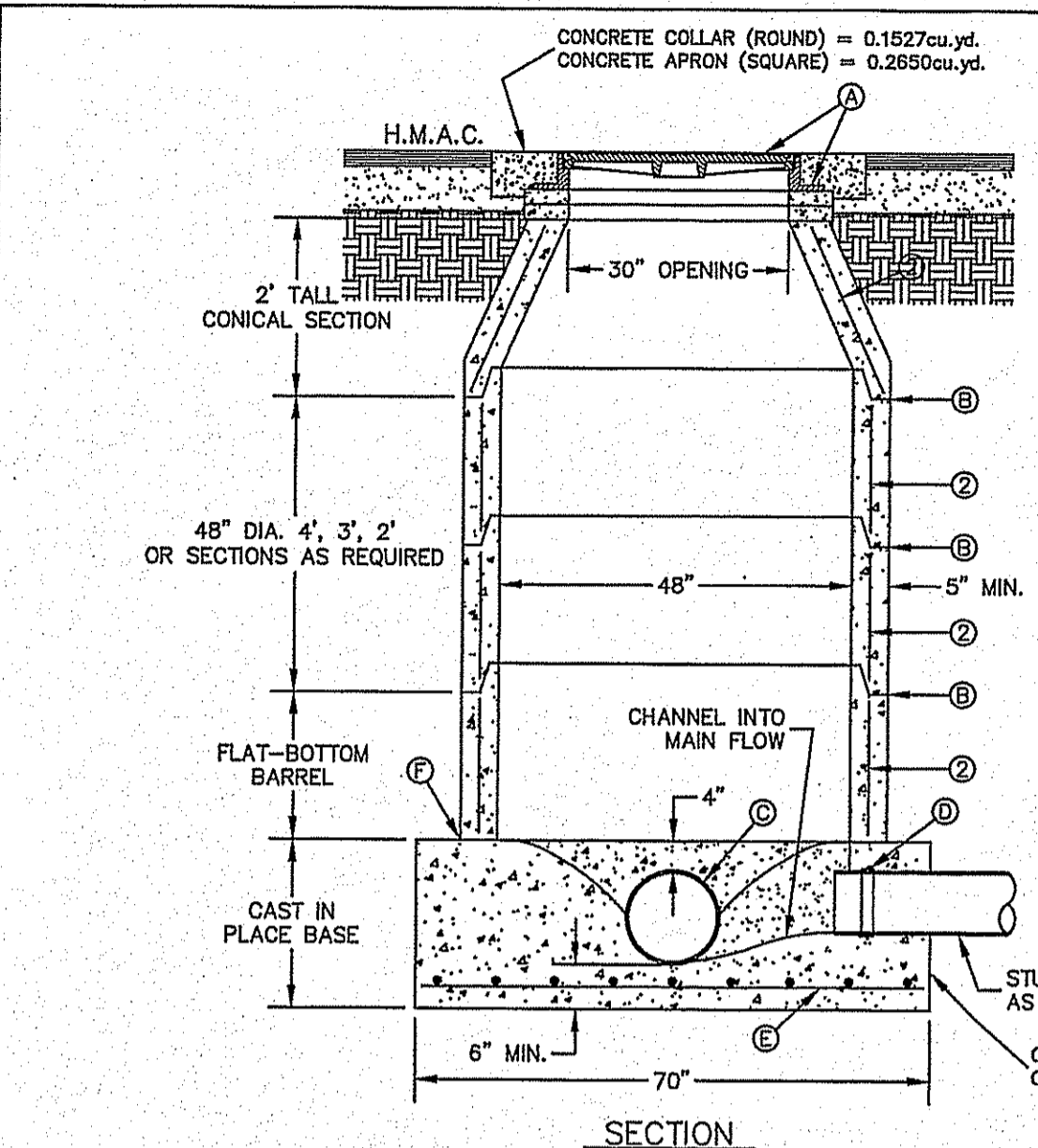
STANDARD DETAIL	DATE: 2/1994 REV: 8/7/2008	CONCRETE THRUST BLOCKING	N.T.S. DETAIL No. 270	STANDARD DETAIL	DATE: 2/1994 REV: 12/12/2011	VALVE ANCHOR	N.T.S. DETAIL No. 271
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CIVIL ENGINEER
GUEVARA ENGINEERING
 P.O. BOX 961514
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 STATE REGISTRATION NO. F-12421

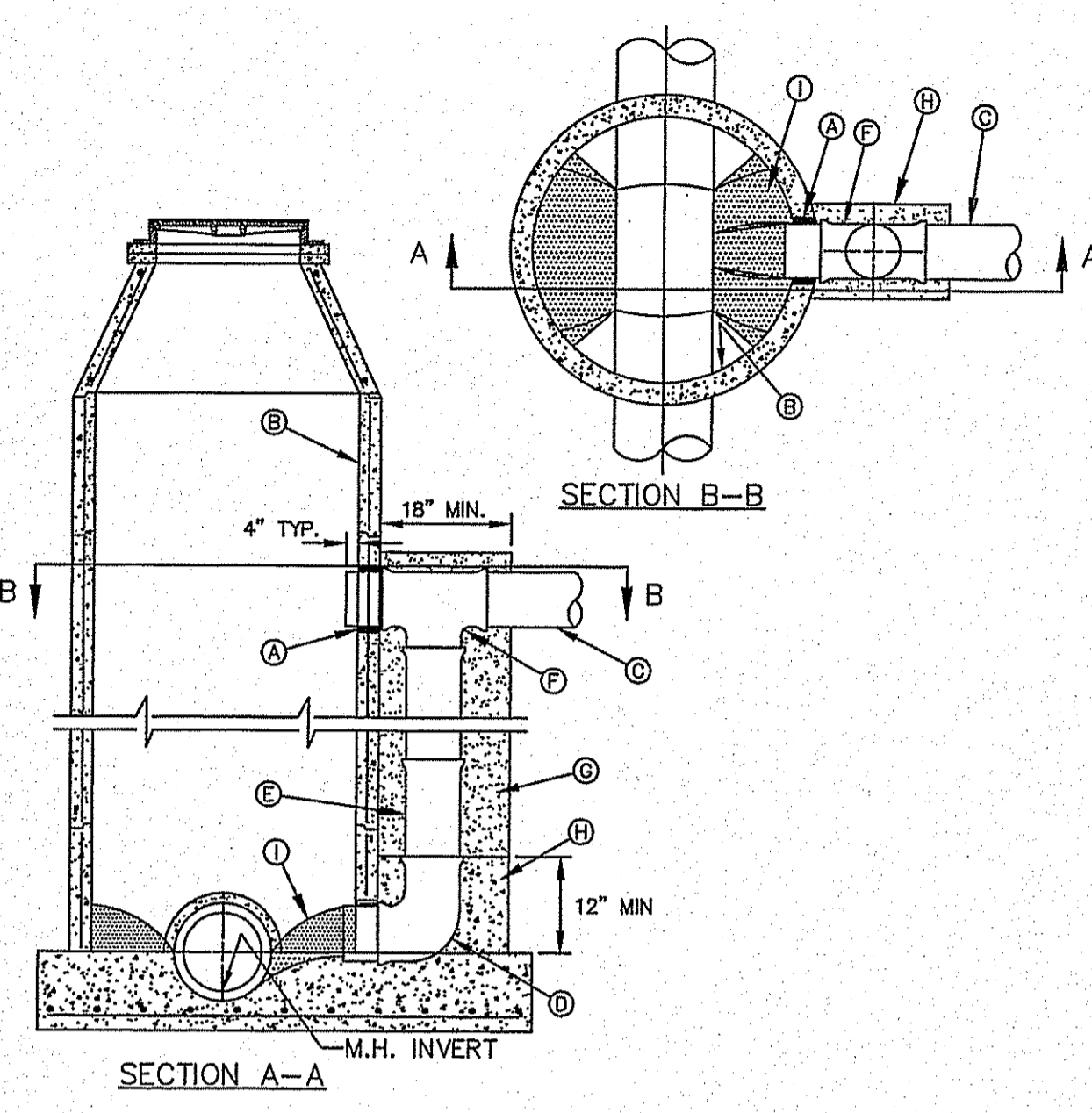
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SUBDIVISION
 CITY OF EL PASO
 EL PASO COUNTY, TEXAS



GENERAL NOTES:
 1. MANHOLE TYPE "A1" SHALL BE USED FOR LINES 21" AND SMALLER, NOT TO BE USED IN GROUNDWATER CONDITIONS.
 2. PRE-CAST MANHOLE SECTIONS SHALL BE OF REINFORCED CONCRETE CONFORMING TO ASTM C-478 AND SHALL MEET HS-20 LOADING.
 3. CEMENT SHALL BE TYPE I-II, PER ASTM C-150, AND MUST CONTAIN A MINIMUM OF 4% FLY ASH OF THE TOTAL MANHOLE WEIGHT.
 4. THE BASE 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 95% DENSITY IN ACCORDANCE WITH ASTM D-1557.
CONSTRUCTION KEY NOTES:
 A. MANHOLE RING AND COVER (SEE DETAILS 377 & 378). SET FRAME AND COVER FLUSH WITH ROADWAY SURFACE OR FINISHED GRADE (SEE DETAIL 1B5).
 B. ALL JOINTS TO BE TONGUE, GROOVE AND SEALED WITH RAM-NEK OR APPROVED EQUAL.
 C. ON MANHOLE, PIPE IS TO BE LAID THRU AND UPPER HALF CUT OUT.
 D. PIPE GASKET.
 E. NO. 4 REBARS 8" ON CENTER, BOTH WAYS.
 F. SEAL ALL AROUND WITH RAM-NEK OR APPROVED EQUAL.

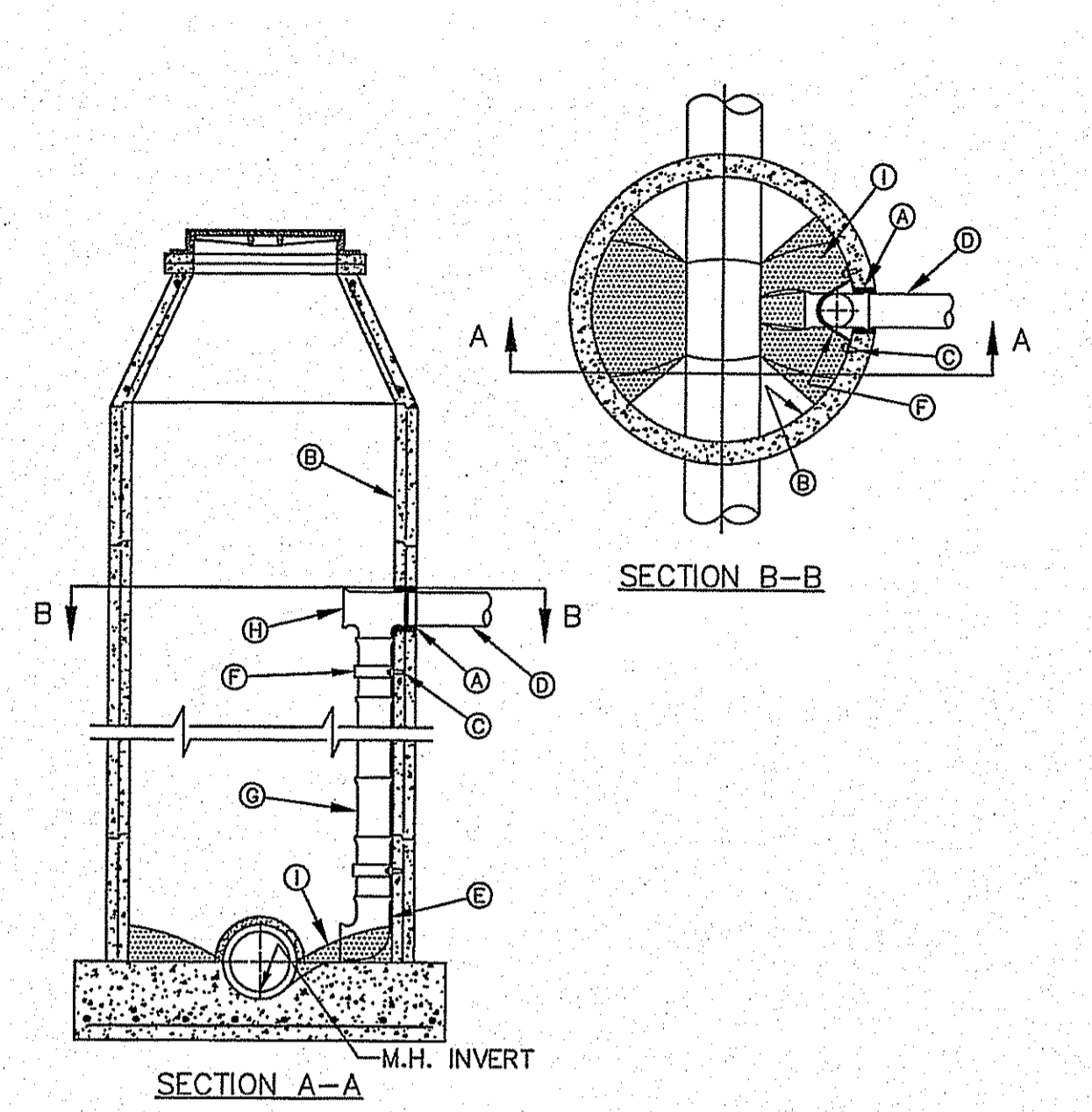
CONCRETE COLLAR (ROUND) = 0.1527cu.yd.
 CONCRETE APRON (SQUARE) = 0.2650cu.yd.
 CONCRETE BASE (8" MAINLINE) = 1.48cu.yd.
 CONCRETE BASE (12" MAINLINE) = 1.81cu.yd.

STANDARD DETAIL	DATE: 11/1992 REV: 12/1/2011	MANHOLE TYPE "A1"	N.T.S.	el paso WATER	DETAIL No. 370-2
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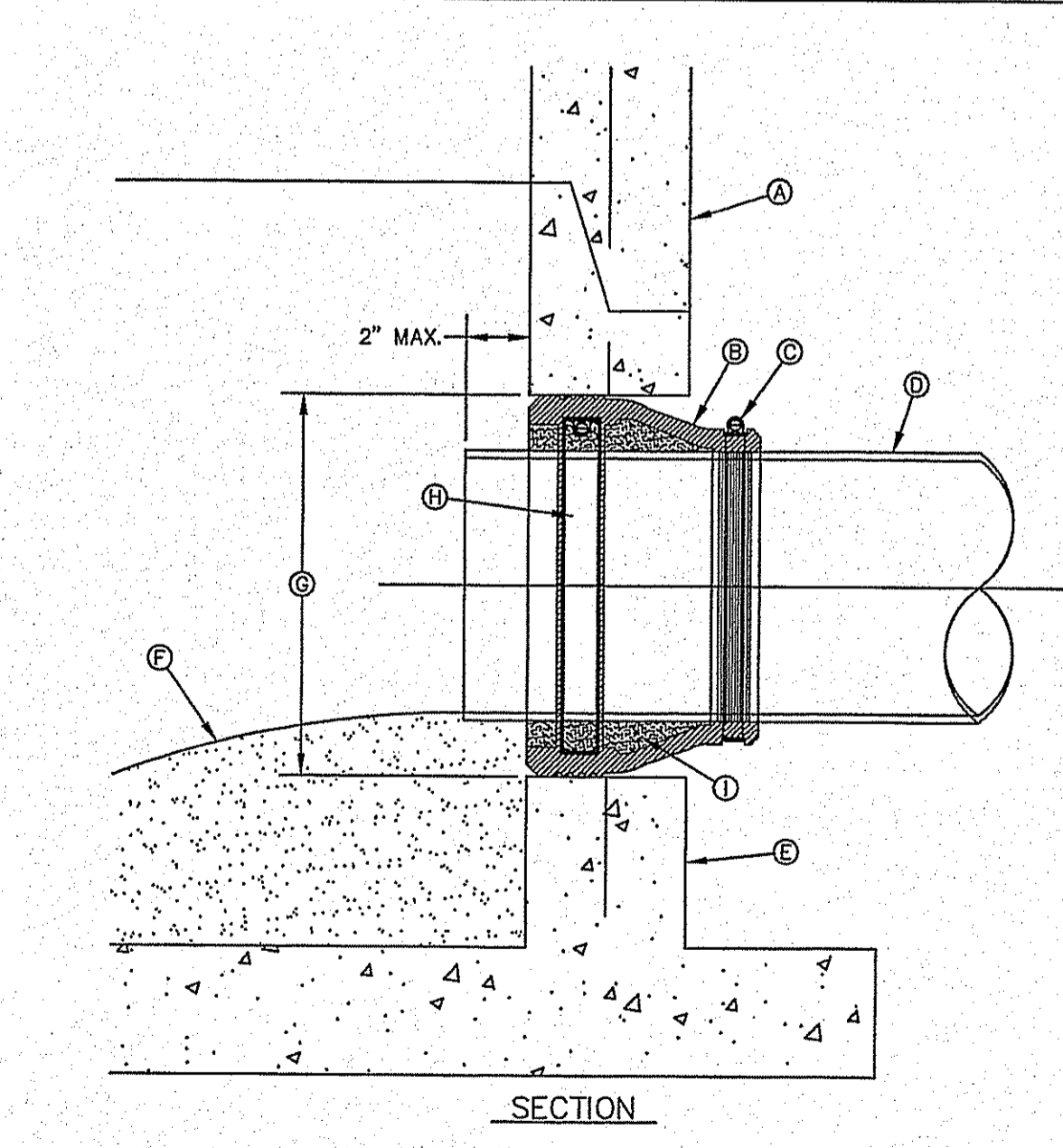
GENERAL NOTES:
 1. DROP CONNECTION SHOWN MAY BE USED ON ALL MANHOLE TYPES (NOT RECOMMENDED IN GROUND WATER CONDITIONS).
 2. DROP CONNECTION TO BE CONSTRUCTED WHEN INVERT ELEVATION OF INFLUENT PIPE IS 3 FEET (OR GREATER) ABOVE THE MANHOLE INVERT.
CONSTRUCTION KEY NOTES:
 A. PIPE OPENINGS IN MANHOLE RISERS SHALL HAVE COMPRESSION TYPE FLEXIBLE PIPE TO MANHOLE CONNECTORS (A.S.T.M.- C923) "KOR-N-SEAL" OR APPROVED EQUAL.
 B. MANHOLE WALL.
 C. INFLUENT SEWER PIPE.
 D. 90° BEND (P.V.C.)
 E. P.V.C. PIPE (SDR. 35)
 F. P.V.C. TEE.
 G. CONCRETE FLOWABLE FILL.
 H. 2500 psi CONCRETE.
 I. USE GROUT TO FORM A SMOOTH CHANNEL TO MANHOLE INVERT.

STANDARD DETAIL	DATE: 3/18/1998 REV: 6/19/2009	DROP CONNECTION - EXTERNAL MANHOLE INSTALLATION	N.T.S.	el paso WATER	DETAIL No. 375-1
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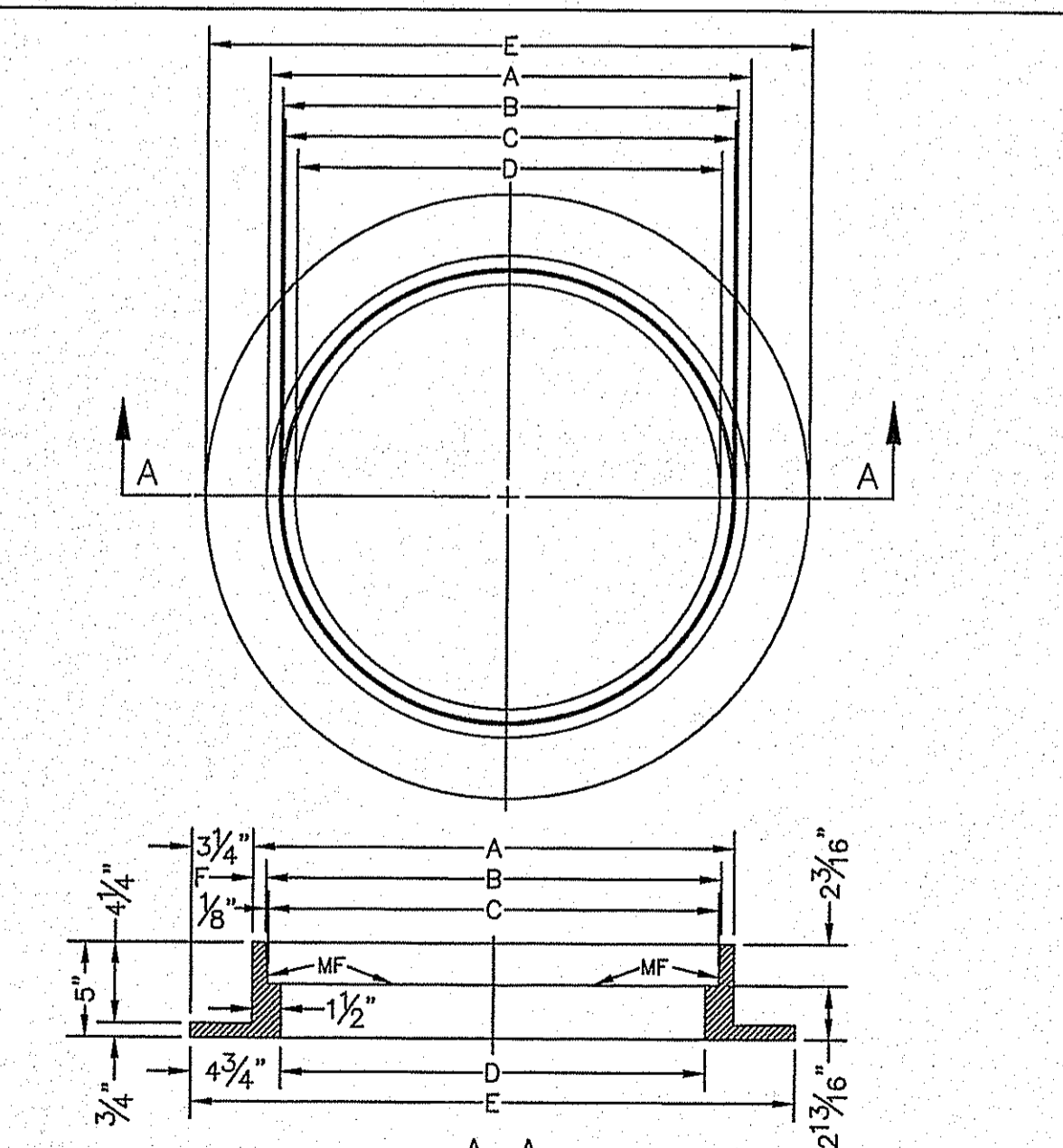
GENERAL NOTES:
 1. DROP CONNECTION SHOWN IS FOR 8" INFLUENT PIPE. FOR LARGER SIZE COLLECTOR LINE, MANHOLE SIZE SHALL BE INCREASED AS NECESSARY TO PROVIDE ADEQUATE CLEARANCE BETWEEN MANHOLE WALL & DROP CONNECTION PIPING AND SHALL ACCOMMODATE THE EPWU'S CONFINED SPACE ENTRY PERMIT PROGRAM.
 2. VERIFY MANHOLE STRUCTURAL INTEGRITY (I.E. BRICK TYPE MANHOLES) PRIOR TO INSTALLATION OF ANCHOR STRAPS & EXPANSION BOLTS (SEE NOTES "C" & "F" BELOW).
 3. ANCHOR STRAPS & BOLTS, SHALL HAVE ONE HEAVY COAT OF POLYAMIDE CURED COAL TAR EPOXY TO PREVENT CORROSION.
 4. DROP CONNECTION TO BE CONSTRUCTED WHEN INVERT ELEVATION OF INFLUENT PIPE IS 3 FEET (OR GREATER) ABOVE THE MANHOLE INVERT.
CONSTRUCTION KEY NOTES:
 A. 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.
 B. MANHOLE WALL.
 C. 1/2" STAINLESS STEEL EXPANSION BOLT TO HAVE 2" MIN. ANCHORAGE INTO MANHOLE.
 D. 8" INFLUENT SEWER PIPE.
 E. 8"-90° BEND (P.V.C.)
 F. 2" WIDE X 3/16" THICK STAINLESS STEEL (T316) STRAP @ 4" O.C. (AS REQUIRED)
 G. 8" P.V.C. PIPE (SDR. 35)
 H. 8" X 8" P.V.C. TEE
 I. USE GROUT TO FORM A SMOOTH CHANNEL TO MANHOLE INVERT.

STANDARD DETAIL	DATE: 4/1997 REV: 6/19/2009	DROP CONNECTION - INTERNAL MANHOLE INSTALLATION	N.T.S.	el paso WATER	DETAIL No. 375-2
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GENERAL NOTES:
 1. MANHOLE CONNECTOR SHALL BE KOR-N-SEAL OR EQUAL MEETING THE REQUIREMENTS OF ASTM C-923. CONNECTOR SHALL BE FURNISHED BY CONTRACTOR.
CONSTRUCTION KEY NOTES:
 A. PRECAST MANHOLE BARREL.
 B. FLEXIBLE CONNECTOR.
 C. PIPE CLAMP SS 316.
 D. APPROVED PIPE.
 E. PRECAST MANHOLE BASE.
 F. GROUT AS REQUIRED TO FORM SMOOTH CHANNEL TO MANHOLE INVERT.
 G. PIPE OPENINGS/KNOCKOUTS AS REQUIRED TO FIT PIPE SIZE.
 H. EXPANSION BAND SS 316.
 I. FILL SPACE WITH GROUT.

STANDARD DETAIL	DATE: 11/1992 REV: 8/13/2009	PIPE CONNECTION TO MANHOLE	N.T.S.	el paso WATER	DETAIL No. 376
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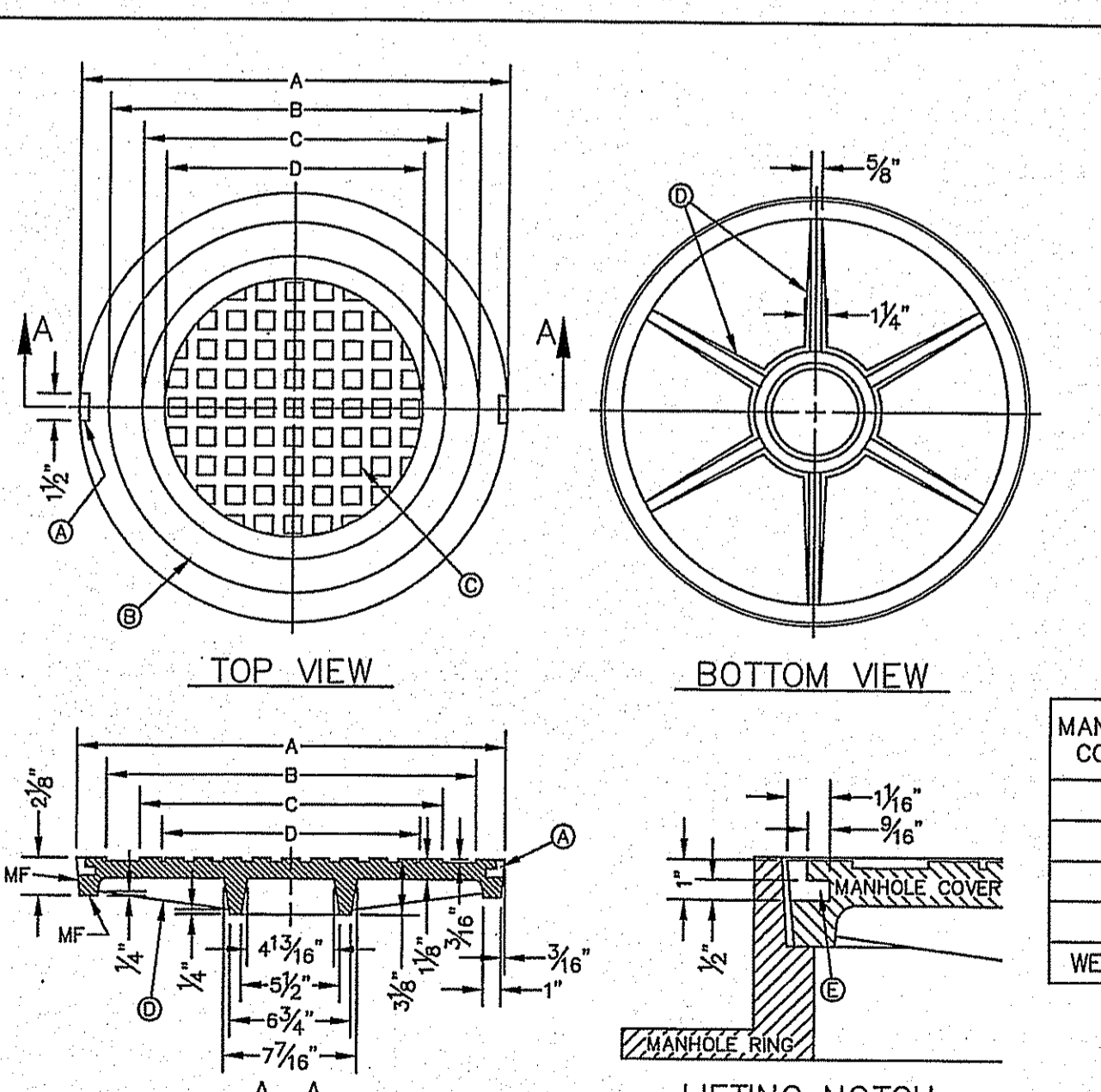


GENERAL NOTES:
 1. MATCHING SURFACES MARKED "MF" TO BE FINISHED OF ANY IRREGULARITIES THAT WOULD PREVENT A SNUG FIT.
 2. CASTING TO BE SMOOTH & VOID OF AIR HOLES.
 3. CASTING MUST MEET REQUIREMENTS OF AASHTO M306-07.
 4. AS-CAST DIMENSIONS MAY VARY 1/8"±/ PER FOOT (AASHTO M306-07).
 5. WEIGHT MAY VARY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

MANHOLE RING	MANHOLE - ALL TYPES	*MANHOLE TYPE A, A1, A2 & C
A	33"	25 1/2"
B	31 3/4"	24 3/8"
C	31 1/2"	23 7/8"
D	30"	22 1/2"
E	39 1/2"	32"
F	5 1/2"	1 1/8"
WEIGHT	205 lbs.	170 lbs.

*OBSOLETE - DO NOT USE (FOR REFERENCE ONLY)

STANDARD DETAIL	DATE: 11/1992 REV: 2/21/2011	SEWER MANHOLE RING	N.T.S.	el paso WATER	DETAIL No. 377
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GENERAL NOTES:
 1. MATCHING SURFACES MARKED "MF" TO BE FINISHED OF ANY IRREGULARITIES THAT WOULD PREVENT A SNUG FIT.
 2. CASTING TO BE SMOOTH & VOID OF AIR HOLES.
 3. CASTING MUST MEET REQUIREMENTS OF AASHTO M306-07.
 4. AS-CAST DIMENSIONS MAY VARY 1/8"±/ PER FOOT (AASHTO M306-07).
 5. WEIGHT MAY VARY 5%± (AASHTO M306-07).
CONSTRUCTION KEY NOTES:
 A. LIFTING NOTCH.
 B. 3/8" RAISED LETTERING.
 C. 1" SQUARES (3/16" TALL) WITH 5/8" SPACE BETWEEN.
 D. REINFORCING RIBS.
 E. SLOT.

MANHOLE COVER	MANHOLE - ALL TYPES	*MANHOLE TYPE A, A1, A2 & C
A	31 3/8"	23 7/8"
B	28 1/2"	20 5/8"
C	24 3/4"	16 7/8"
D	21 7/8"	14 3/8"
WEIGHT	200 lbs.	165 lbs.

*OBSOLETE - DO NOT USE (FOR REFERENCE ONLY)

STANDARD DETAIL	DATE: 11/1992 REV: 2/21/2011	SEWER MANHOLE COVER	N.T.S.	el paso WATER	DETAIL No. 378
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SEWER DETAILS

DATE: MAY 2016
 SCALE: AS SHOWN
 JOB NO.:
 SHEET NO.:
SHT. 7 OF 7