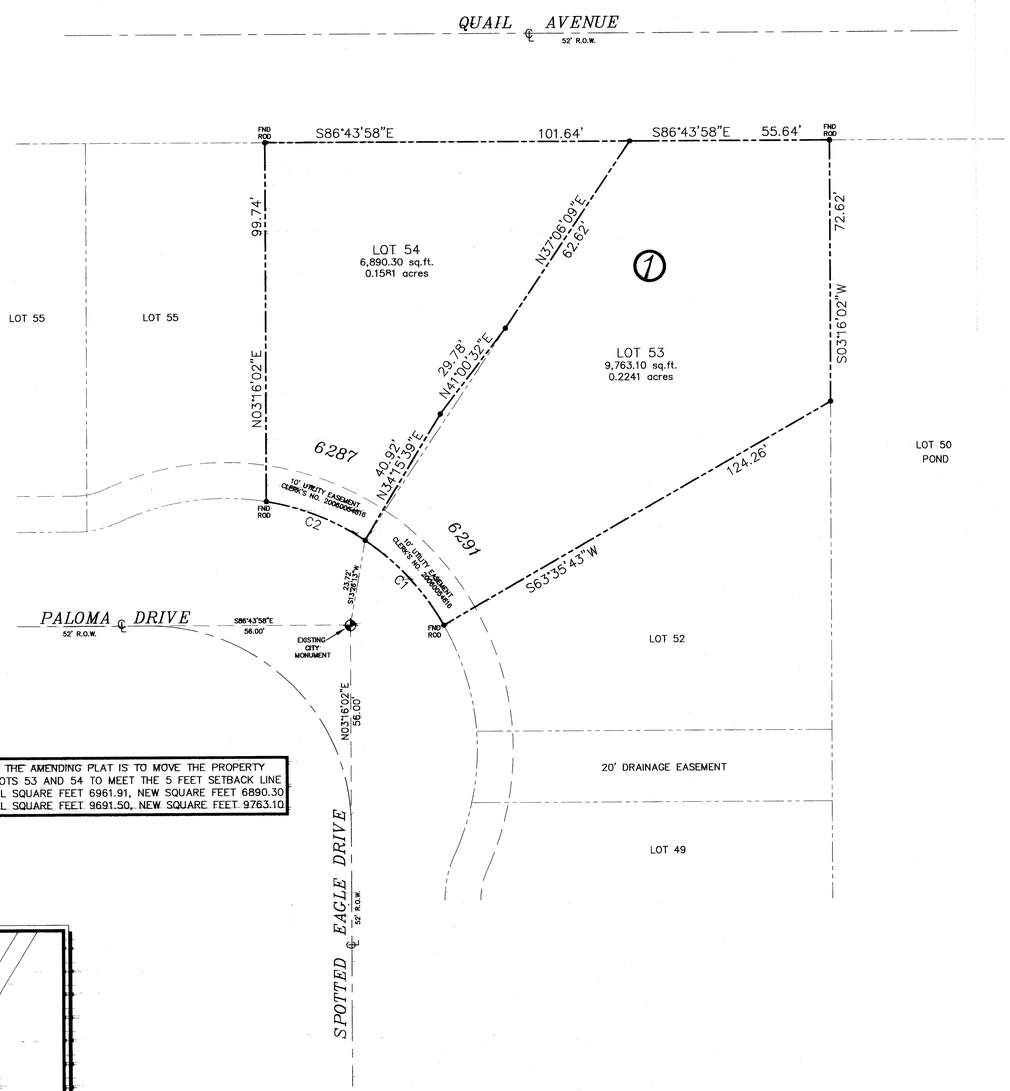
FALCON HEIGHTS SUBDIVISION AMENDING PLAT

BEING LOTS 53 AND 54, BLOCK 1
FALCON HEIGHTS SUBDIVISION
CITY OF EL PASO, EL PASO COUNTY TX.
CONTAINING:
16,653.40 SQ. FT.
OR 0.3823 ACRES ±



GRAPHIC SCALE

20 0 10 20 40 80

(IN FEET)
1 inch = 20 ft.

NOTES:

RESTRICTIVE COVENANTS FOR THIS SUBDIVISION ARE FILED IN THE OFFICE OF THE COUNTY CLERK, DEED AND RECORD SECTION.

INSTRUMENT No. N/A BOOK _____ PAGE _____ DATE 17 Dec 08

SET 5/8" REBAR AT ALL EXTERIOR BOUNDARY CORNERS.

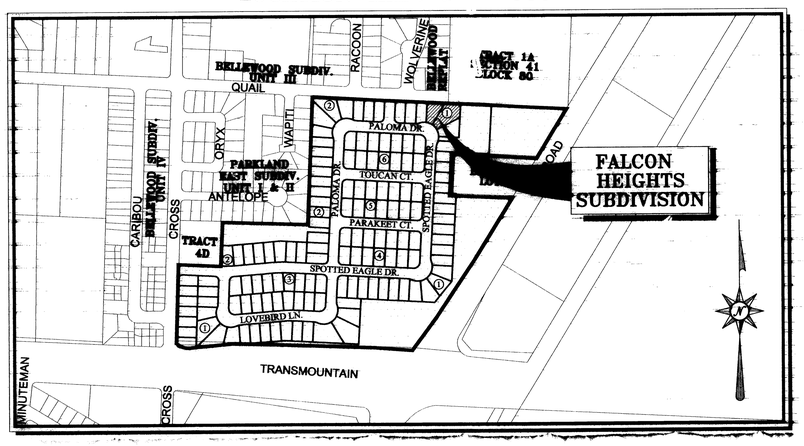
TAX CERTIFICATE FOR THIS SUBDIVISION ARE FILED IN THE OFFICE OF THE COUNTY CLERK, DEED AND RECORD SECTION. 20080098648, 20080098649

INSTRUMENT No. _____ BOOK _____ PAGE _____ DATE 17 Dec 08

THIS PROPERTY LIES IN ZONE "C", AS DESIGNATED BY F.E.M.A; CITY OF EL PASO, OCTOBER 15, 1982, COMMUNITY PANEL NO. 480214-0020 B.

THE REASON OF THE AMENDING PLAT IS TO MOVE THE PROPERTY LINE BETWEEN LOTS 53 AND 54 TO MEET THE 5 FEET SETBACK LINE. LOT 54, ORIGINAL SQUARE FEET 6961.91, NEW SQUARE FEET 6890.30 LOT 53, ORIGINAL SQUARE FEET 9691.50, NEW SQUARE FEET 9763.10

LOCATION MAP: 1' = 600'



CURVE TABLE

CURVE	LENGTH	RADIUS	TANGENT	DELTA	BEARING	CHORD
C1	32.36	70.00	16.47	26°29'13"	N39°39'03"W	32.07
C2	29.78	70.00	15.12	24°22'25"	N65°04'52"W	29.55

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CAD CONSULTING COMPANY
1790 LEE TEVINO AVENUE SUITE 503
EL PASO, TEXAS 79936
TEL (915) 633-6422

OWNER/DEVELOPER:
RED SEA L.P.
JUAN JOSE VASQUEZ
1388 DIAMOND GATE
EL PASO, TEXAS 79936
PHONE: (915) 740-9399

OWNER/DEVELOPER:
DIANA VASQUEZ
6291 PALOMA
EL PASO, TEXAS 79924
PHONE: (915) 633-6422

SURVEYOR:
CAD CONSULTING CO.
CARLOS M. JIMENEZ
1790 N. LEE TREVINO
EL PASO, TEXAS 79936
PHONE: (915) 633-6422

JOB # 81305 EA *PREPARATION DATE: 06-16-08*

DEDICATION

RED SEA L.P. and DIANA VASQUEZ, property owners of this land, hereby present this plat as hereon laid down and designated.

Witness our signature this 10 day of October, 2008.

RED SEA L.P.

JUAN JOSE VASQUEZ, President

DIANA VASQUEZ, Owner

ATTEST: NOT REQUIRED

ACKNOWLEDGEMENT

STATE OF TEXAS
COUNTY OF EL PASO

Before me, the undersigned authority, on this day personally appeared Juan Jose Vasquez and Diana Vasquez, known to me to be the persons whose names are subscribed to the foregoing instrument and acknowledged to me that he executed the same for the purposes and considerations herein expressed.

Given under my hand and seal of office this 10 day of October, 2008.

Notary Public in and for El Paso County

My Commission Expires 3-14-2010

AMENDING PLAT APPROVAL STATEMENT

This subdivision is hereby approved in accordance with Chapter 212.0065 (Amending Plat) of the Local Government Code and Title 19.08.070 as to meeting the requirements for a review of an amending plat.

Executive Secretary
City Plan Commision

Subdivision Coordinator

Approved for filing this 5 day of November, 2008.

Development Services Director

FILING

Filed and recorded in the office of the County Clerk of El Paso County, Texas, this 17 day of December, 2008, A.D. in Volume _____, of the Plat Record, Page _____, File No. 20080098647

County Clerk

By Deputy

This plat represents a survey made on the ground by me or under my supervision and complies with the current Texas Board of Professional Land Survey Professional and Technical Standards.

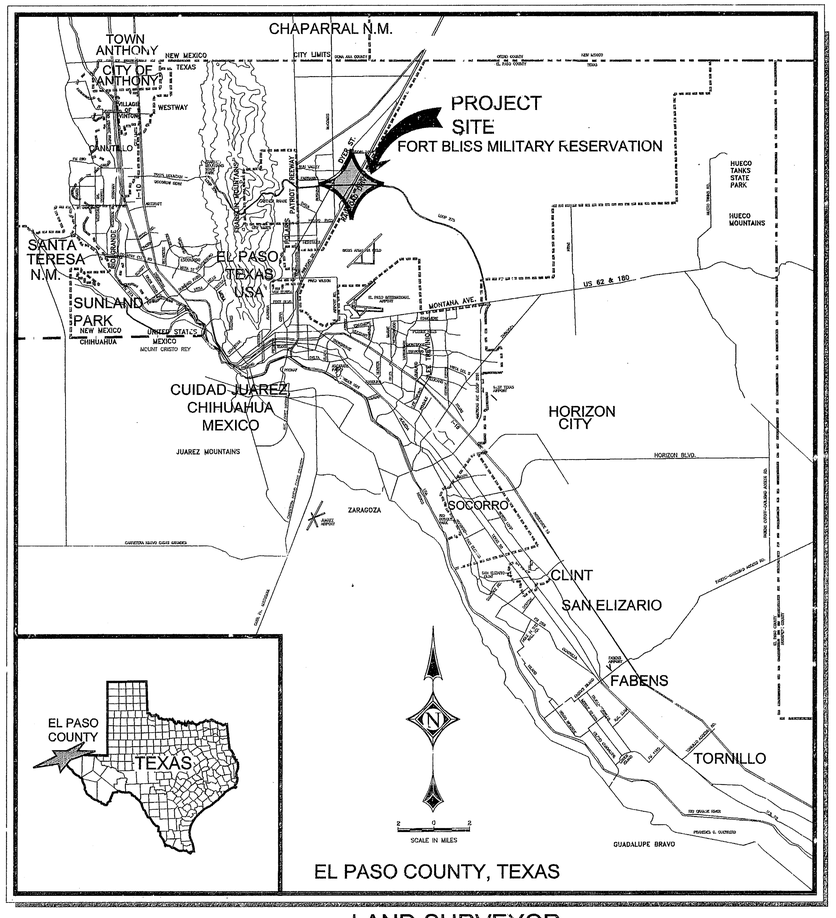
Carlos M. Jimenez, R.P.L.S.
Registered Professional Land Surveyor
Texas License No. 3950

83-F

FALCON HEIGHTS SUBDIVISION

PARCEL 1: A PORTION OF TRACTS 1D, 2D, 3D AND 4D
FIRST SUPPLEMENTAL MAP OF PARKLAND ADDITION; PARCEL 2: LOT 1, BLOCK 1
GOLDBERG & LEHMAN SUBDIVISION; CITY OF EL PASO, EL PASO COUNTY, TEXAS 30.44± ACRES

VICINITY MAP



INDEX SHEET

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C-02 DRAINAGE PLAN
C-03 STORM WATER POLLUTION CONTROL PLAN
C-04 STORM WATER POLLUTION CONTROL DETAILS
C-05 ILLUMINATION & TRAFFIC CONTROL PLAN
C-06 ILLUMINATION DETAILS

PLAN AND PROFILES
C-07 SPOTTED EAGLE DR.
C-08 SPOTTED EAGLE DR.
C-09 SPOTTED EAGLE DR.
C-10 PALOMA DR.
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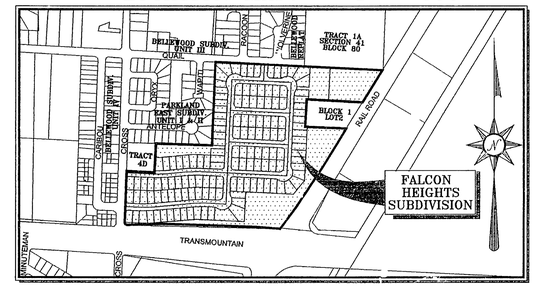
LOCATION MAP: 1' = 600'



FALCON HEIGHTS SUBDIVISION (J05-093)

Plans prepared by:
CIVIL ENGINEER

3/8/07
STATE OF TEXAS
S.B. MASOUD
PROFESSIONAL ENGINEER

LAND SURVEYOR

CONSULTING COMPANY
1790 N. LEE TREVINO DR. SUITE 503
EL PASO, TEXAS 79936
TEL (915) 633-6422 FAX (915) 633-6424

NOTES:
THESE RECORDS DRAWINGS HAVE BEEN PREPARED BY DEL RIO ENGINEERING INC. BASED ON PERIODIC CONSTRUCTION OBSERVATIONS AND INFORMATION PROVIDED BY OTHERS AND REFLECTS CHANGES MADE DURING CONSTRUCTION. THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION HAVE BEEN VERIFIED BY CAD CONSULTING COMPANY SUMITTED ON 1/30/07. THOSE RELYING ON THIS RECORD DRAWING ARE ADVISED TO OBTAIN INDEPENDENT VERIFICATION OF ITS ACCURACY BEFORE APPLYING IT FOR ANY PURPOSE.

BY: _____

DATE: _____

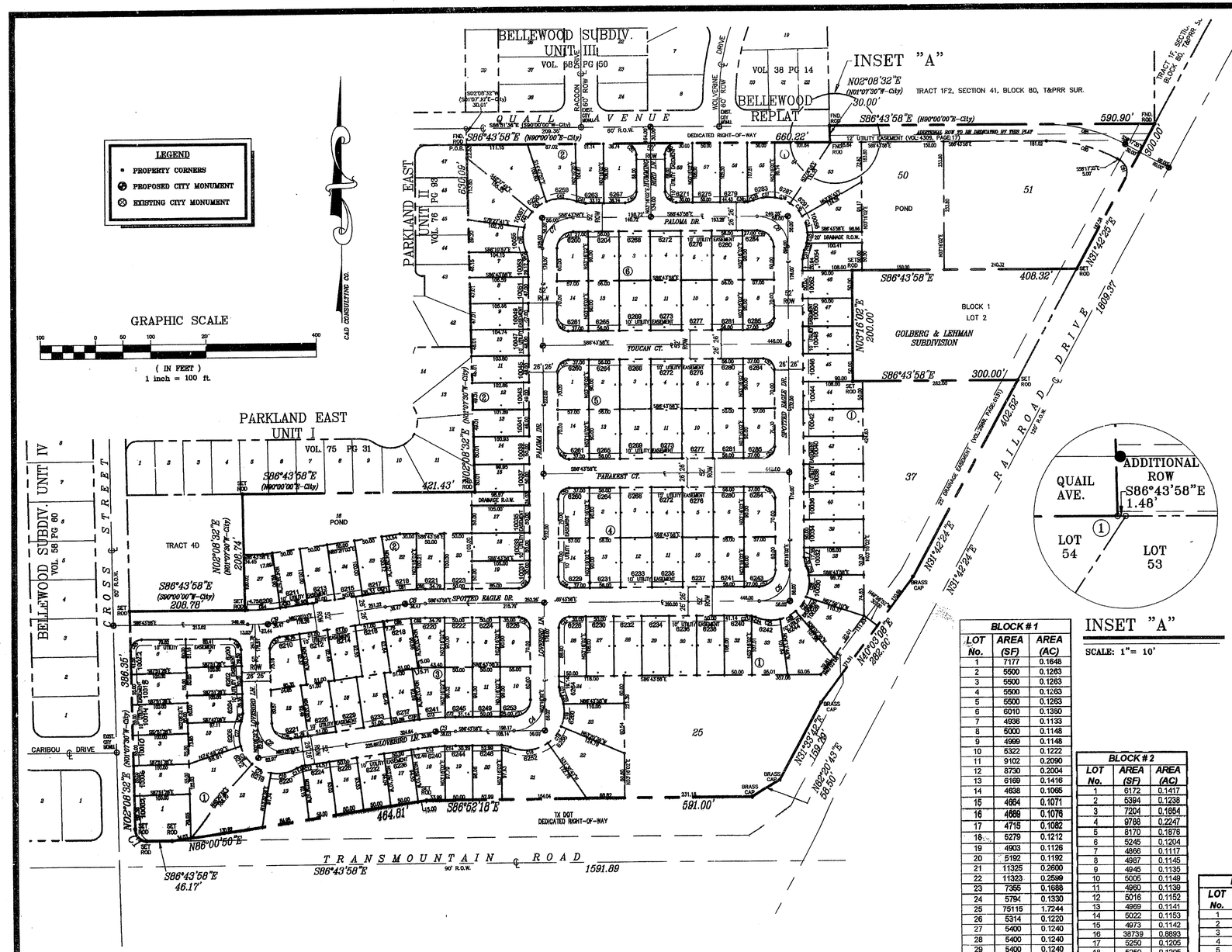
DRE Del Rio Engineering, Inc.
P.O. Box 220251 El Paso, Texas 79913 915/833-2400

600757

Z:\J05-WORK DIRECTORY\J05-093 FALCON HEIGHTS SUBDIVISION (QUAIL SUB)\dwg\AsBuilts CIVIL 110705\ J05-093 CO-COVER.dwg - Mar 07,2007 3:35am

FALCON HEIGHTS SUBDIVISION

BEING OF PARCEL 1: A PORTION OF TRACTS 1D, 2D, 3D AND 4D
FIRST SUPPLEMENTAL MAP OF PARKLAND ADDITION
PARCEL 2: LOT 1, BLOCK 1
GOLBERG & LEHMAN SUBDIVISION
CITY OF EL PASO, EL PASO COUNTY TX.
1,326,059.08 SQ. FT.
30.4421 ACRES±



CURVE TABLE					
CURVE	DELTA	RADIUS	ARC	CHORD BEARING	CHORD
C1	88°52'30"	20.40'	31.64'	N42°17'43"W	28.57'
C2	96°42'27"	56.00'	94.52'	S46°12'42"E	83.69'
C3	07°49'57"	526.00'	71.91'	N89°21'03"E	71.85'
C4	90°00'00"	56.00'	87.96'	N48°16'02"E	79.20'
C5	90°00'00"	56.00'	87.96'	N48°16'02"E	79.20'
C6	90°00'00"	56.00'	87.96'	N41°43'58"W	79.20'
C7	90°00'00"	56.00'	87.96'	S48°16'02"W	79.20'
C8	07°55'59"	526.00'	72.83'	S89°18'03"W	72.77'
C9	07°55'59"	526.00'	72.83'	S89°18'03"W	72.77'
C10	40°00'42"	70.00'	48.88'	N83°32'37"E	47.90'
C11	14°05'23"	40.00'	9.84'	N70°34'57"E	9.81'
C12	07°48'26"	40.00'	5.45'	N81°31'52"E	5.45'
C13	05°34'25"	500.00'	48.64'	N88°13'17"E	48.62'
C14	02°15'32"	500.00'	19.71'	S87°51'44"E	19.71'
C15	23°37'01"	40.00'	16.49'	S74°55'27"E	16.37'
C16	58°23'51"	70.00'	71.35'	N87°41'08"E	68.30'
C18	31°49'52"	70.00'	38.89'	N42°34'17"E	38.39'
C19	34°16'09"	70.00'	41.87'	N09°31'17"E	41.25'
C20	12°44'12"	70.00'	15.56'	N13°58'53"W	15.53'
C21	23°37'01"	40.00'	16.49'	N09°32'29"W	16.37'
C22	90°00'00"	20.00'	31.42'	N48°16'02"E	28.28'
C23	12°47'24"	40.00'	8.93'	S80°20'16"E	8.91'
C24	10°49'37"	40.00'	7.56'	S68°31'45"E	7.55'
C25	37°18'14"	70.00'	45.58'	S81°46'04"E	44.77'
C26	26°37'57"	70.00'	32.54'	N68°15'51"E	32.25'
C27	26°20'12"	70.00'	32.18'	N39°46'46"E	31.89'
C28	32°43'53"	70.00'	39.99'	N10°14'44"E	39.45'
C29	14°13'47"	70.00'	17.38'	N13°14'06"W	17.34'
C30	23°37'01"	40.00'	16.49'	N09°32'29"W	16.37'
C31	23°37'01"	40.00'	16.49'	N15°04'33"E	16.37'
C32	11°14'10"	70.00'	13.73'	N21°15'58"E	13.71'
C33	16°28'11"	70.00'	20.12'	N07°24'48"E	20.05'
C34	25°34'59"	70.00'	31.26'	N13°36'47"W	31.00'
C35	26°29'34"	70.00'	32.37'	N39°39'04"W	32.08'
C36	24°22'40"	70.00'	29.78'	N65°05'11"W	29.56'
C37	33°04'28"	70.00'	40.41'	S86°11'15"W	39.85'
C38	15°36'43"	40.00'	10.90'	S77°27'22"W	10.87'
C39	08°00'18"	40.00'	5.59'	S88°15'53"W	5.58'
C40	90°00'00"	20.00'	31.42'	S48°16'02"W	28.28'
C41	23°37'01"	40.00'	16.49'	N74°55'27"W	16.37'
C42	46°17'44"	70.00'	56.56'	N86°15'49"W	55.03'
C43	26°21'02"	70.00'	32.19'	S57°24'48"W	31.91'
C44	26°38'19"	70.00'	32.50'	S30°48'08"W	32.21'
C45	37°58'58"	70.00'	46.40'	S01°21'31"E	45.56'
C46	23°37'01"	40.00'	16.49'	S08°32'29"E	16.37'
C47	90°00'00"	30.00'	47.12'	N48°16'02"E	42.43'
C48	90°00'00"	30.00'	47.12'	S41°43'58"E	42.43'
C49	90°00'00"	20.00'	31.42'	S48°16'02"W	28.28'
C50	90°00'00"	20.00'	31.42'	N41°43'58"W	28.28'
C51	90°00'00"	20.00'	31.42'	S48°16'02"W	28.28'
C52	90°00'00"	20.00'	31.42'	S41°43'58"E	28.28'
C53	90°00'00"	20.00'	31.42'	S48°16'02"W	28.28'
C54	90°00'00"	20.00'	31.42'	N41°43'58"W	28.28'
C55	90°00'00"	20.00'	31.42'	S48°16'02"W	28.28'
C56	90°00'00"	20.00'	31.42'	S41°43'58"E	28.28'
C57	90°00'00"	30.00'	47.12'	S48°16'02"W	42.43'
C58	90°00'00"	20.00'	31.42'	N41°43'58"W	28.28'
C59	90°00'00"	20.00'	31.42'	S48°16'02"W	28.28'
C60	01°34'46"	552.00'	15.22'	N87°31'21"W	15.22'
C61	05°08'32"	552.00'	49.54'	S88°07'00"W	49.52'
C62	01°12'41"	552.00'	11.67'	S85°58'24"W	11.67'
C63	01°09'06"	500.00'	10.05'	S85°54'36"W	10.05'
C64	06°46'53"	500.00'	59.18'	S89°52'36"W	59.14'
C65	91°07'30"	20.00'	31.81'	N47°42'17"E	28.56'
C66	88°52'30"	20.00'	31.02'	S42°17'43"E	28.01'
C67	83°11'31"	20.00'	29.04'	N43°44'18"E	26.55'
C68	04°57'31"	500.00'	43.27'	N87°48'49"T	43.26'
C69	02°56'28"	500.00'	25.96'	S88°13'12"E	25.95'
C70	90°00'00"	20.00'	31.42'	S41°43'58"E	28.28'
C71	90°00'00"	30.00'	47.12'	S48°16'02"W	42.43'
C72	01°57'29"	552.00'	18.88'	N87°42'42"W	18.88'
C73	01°49'31"	552.00'	46.49'	S88°53'48"W	46.47'
C74	01°02'57"	552.00'	10.11'	S85°57'34"W	10.11'
C75	96°42'27"	30.00'	50.64'	N46°12'42"W	44.84'
C76	21°53'49"	40.00'	15.29'	S13°05'27"W	15.19'
C77	36°49'40"	70.00'	44.99'	S05°37'31"W	44.22'
C78	31°49'52"	70.00'	38.89'	S28°42'15"E	38.39'
C79	31°49'52"	70.00'	38.89'	S60°32'06"E	38.39'
C80	28°26'23"	270.00'	134.02'	S72°30'46"E	132.65'
C81	90°00'00"	25.00'	39.27'	S13°17'35"E	35.36'
C82	90°00'00"	20.00'	31.42'	S41°43'58"E	28.28'
C83	90°00'00"	20.00'	31.42'	N48°16'02"E	28.28'
C84	90°00'00"	20.00'	31.42'	S41°43'58"E	28.28'
C85	28°26'23"	300.00'	148.91'	S72°30'46"E	147.39'

BLOCK #1		
LOT No.	AREA (SF)	AREA (AC)
1	7177	0.1648
2	5500	0.1263
3	5500	0.1263
4	5500	0.1263
5	5500	0.1263
6	6010	0.1380
7	4936	0.1133
8	5000	0.1148
9	4999	0.1148
10	5322	0.1222
11	9102	0.2090
12	8730	0.2004
13	6169	0.1416
14	4638	0.1065
15	4664	0.1071
16	4666	0.1076
17	4715	0.1082
18	5279	0.1212
19	4903	0.1126
20	5192	0.1192
21	11326	0.2600
22	11323	0.2599
23	7355	0.1688
24	5794	0.1330
25	75115	1.7244
26	5314	0.1220
27	5400	0.1240
28	5400	0.1240
29	5400	0.1240
30	5400	0.1240
31	5400	0.1240
32	5397	0.1239
33	5897	0.1354
34	7055	0.1620
35	6458	0.1483
36	5777	0.1326
37	70740	1.6240
38	5279	0.1212
39	5400	0.1240
40	5400	0.1240
41	5400	0.1240
42	5400	0.1240
43	5400	0.1240
44	5400	0.1240
45	4500	0.1033
46	4500	0.1033
47	4500	0.1033
48	4500	0.1033
49	5308	0.1219
50	36902	0.8472
51	67785	1.5561
52	6353	0.1458
53	9691	0.2225
54	6961	0.1598
55	5076	0.1165
56	5369	0.1233
57	5400	0.1240
58	5228	0.1200

BLOCK #2		
LOT No.	AREA (SF)	AREA (AC)
1	6172	0.1417
2	5394	0.1238
3	7204	0.1654
4	9788	0.2247
5	8170	0.1876
6	5245	0.1204
7	4866	0.1117
8	4987	0.1145
9	4945	0.1135
10	5005	0.1149
11	4960	0.1139
12	5016	0.1152
13	4969	0.1141
14	5022	0.1153
15	4973	0.1142
16	38739	0.8893
17	5250	0.1205
18	5250	0.1205
19	5164	0.1185
20	5000	0.1148
21	5001	0.1148
22	5692	0.1307
23	5000	0.1148
24	5000	0.1148
25	5000	0.1148
26	5000	0.1148
27	5781	0.1327

BLOCK #3		
LOT No.	AREA (SF)	AREA (AC)
1	5467	0.1255
2	4713	0.1082
3	4717	0.1083
4	4722	0.1084
5	4699	0.1079
6	4912	0.1128
7	4500	0.1033
8	4500	0.1033
9	4864	0.1117
10	4757	0.1092
11	4500	0.1033
12	4500	0.1033
13	4841	0.1111
14	4717	0.1083
15	4717	0.1083
16	4717	0.1083
17	4717	0.1083
18	5322	0.1222

BLOCK #4		
LOT No.	AREA (SF)	AREA (AC)
1	5044	0.1158
2	5040	0.1157
3	5040	0.1157
4	5040	0.1157
5	5040	0.1157
6	5040	0.1157
7	5044	0.1158
8	4937	0.1133
9	5040	0.1157
10	5040	0.1157
11	5040	0.1157
12	5040	0.1157
13	5040	0.1157
14	5044	0.1158

BLOCK #5		
LOT No.	AREA (SF)	AREA (AC)
1	5044	0.1158
2	5040	0.1157
3	5040	0.1157
4	5040	0.1157
5	5040	0.1157
6	5040	0.1157
7	5044	0.1158
8	5044	0.1158
9	5040	0.1157
10	5040	0.1157
11	5040	0.1157
12	5040	0.1157
13	5040	0.1157
14	5044	0.1158

BLOCK #6		
LOT No.	AREA (SF)	AREA (AC)
1	4937	0.1133
2	5040	0.1157
3	5040	0.1157
4	5040	0.1157
5	5040	0.1157
6	5040	0.1157
7	4937	0.1133
8	5044	0.1158
9	5040	0.1157
10	5040	0.1157
11	5040	0.1157
12	5040	0.1157
13	5040	0.1157
14	5044	0.1158

DEDICATION

BLACK SEA ACQUISITION, LP, PROPERTY OWNER OF THIS LAND, HEREBY PRESENT THIS PLAT AND DEDICATED TO THE USE OF THE PUBLIC, THE STREETS, DRAINAGE PONDS, DRAINAGE R.O.W.'S, DRIVES, ADDITIONAL R.O.W. AND UTILITY EASEMENTS, AS HEREON LAID DOWN AND DESIGNATED, INCLUDING EASEMENTS FOR OVERHANG SERVICE WIRES FOR POLE TYPE 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 1st DAY OF May, 2006.

ENRIQUE ESCOBAR, PARTNER

ATTEST: NOT REQUIRED

ACKNOWLEDGEMENT

STATE OF TEXAS
COUNTY OF EL PASO

BEFORE ME, THE UNDERSIGNED AUTHORITY, ON THIS DAY PERSONALLY APPEARED ENRIQUE ESCOBAR KNOWN TO ME TO BE THE PERSON WHOSE NAME IS SUBSCRIBED TO THE FOREGOING INSTRUMENT AND ACKNOWLEDGED TO ME THAT HE EXECUTED THE SAME FOR THE PURPOSES AND CONSIDERATIONS HEREIN EXPRESSED.

GIVEN UNDER MY HAND AND SEAL OF OFFICE THIS 1st DAY OF May, 2006.

NOTARY PUBLIC IN AND FOR EL PASO COUNTY

December 2, 2009
MY COMMISSION EXPIRES

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 3RD DAY OF NOVEMBER, 2005 A.D.

SECRETARY

CHAIRPERSON

APPROVED FOR FILING THIS 9th DAY OF May, 2006.

DEVELOPMENT SERVICES DIRECTOR

FILING

FILED AND RECORDED IN THE OFFICE OF THE COUNTY CLERK OF EL PASO COUNTY, TEXAS, THIS 12 DAY OF July, 2006, A.D. IN VOLUME _____, OF THE PLAT RECORD, PAGE _____, FILE No. 20060054816

COUNTY CLERK

BY DEPUTY

NOTES:

RESTRICTIVE CONVENANTS FOR THIS SUBDIVISION ARE FILED IN THE OFFICE OF THE COUNTY CLERK, DEED AND RECORD SECTION.
INSTRUMENT No.20060054815 BOOK _____ PAGE _____ DATE _____

SET 5/8" REBAR AT ALL EXTERIOR BOUNDARY CORNERS.

TAX CERTIFICATE FOR THIS SUBDIVISION ARE FILED IN THE OFFICE OF THE COUNTY CLERK, DEED AND RECORD SECTION.
INSTRUMENT No.20060054817 BOOK _____ PAGE _____ DATE _____

LOT CORNERS WILL BE SET UPON COMPLETION OF CONSTRUCTION OF ROAD WAYS AND UTILITIES.

TIES SHOWN TO EXISTING CITY MONUMENTS ARE BASED ON RECORD INFORMATION ONLY.

ACCESS TO LOTS 1, 2, 3, AND 4 BLOCK 2, AND LOTS 53, 54, 55, 56, 57, AND 58 BLOCK 1 SHALL BE FROM OTHER DEDICATED STREETS, ACCESS TO QUAIL AVE. IS HEREBY PROHIBITED.

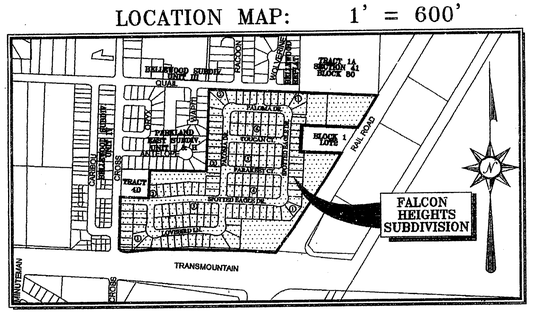
ACCESS TO LOTS 1, BLOCK 1 SHALL BE FROM CROSS STREET, ACCESS TO TRANSMOUNTAIN ROAD IS HEREBY PROHIBITED.

ACCESS TO LOTS 12 THRU 22, BLOCK 1 SHALL BE FROM LOVEBIRD LANE, ACCESS TO TRANSMOUNTAIN ROAD IS HEREBY PROHIBITED.

POSTAL DELIVERY SERVICE WILL BE PROVIDED BY NDCBUS.

BEARINGS SHOWN ON THIS PLAT ARE BASED ON TEXAS DEPT. OF TRANSPORTATION RIGHT OF WAY MAPS. BEARINGS SHOWN IN PARENTHESIS ARE BASED ON CITY OF EL PASO RECORDED PLATS.

LOCATION MAP: 1' = 600'



DATE OF PREPARATION: AUGUST 08, 2005 REV: 10/10/05

DRE Del Rio Engineering, Inc.
P.O. Box 220251 El Paso, Texas 79913 915/833-2400

5/26/2006

SUBDIVISION IMPROVEMENT PLAN WERE PREPARED BY AND UNDER THE SUPERVISION OF S. B. MASOUD, REGISTERED PROFESSIONAL ENGINEER # 70774

S. B. MASOUD, R. P. E. # 70774

CONSULTING COMPANY
1790 N. LEE TREVINO DR. SUITE 503
EL PASO, TEXAS 79936
TEL (915) 633-6422 FAX (915) 633-6424

THIS PLAT REPRESENTS A SURVEY MADE ON THE GROUND BY ME OR UNDER MY SUPERVISION AND COMPLIES WITH THE CURRENT TEXAS BOARD OF PROFESSIONAL LAND SURVEY PROFESSIONAL AND TECHNICAL STANDARDS.

CARLOS M. JIMENEZ, R. P. L. S.
REGISTERED PROFESSIONAL LAND SURVEYOR
TEXAS LICENSE NO. 3950

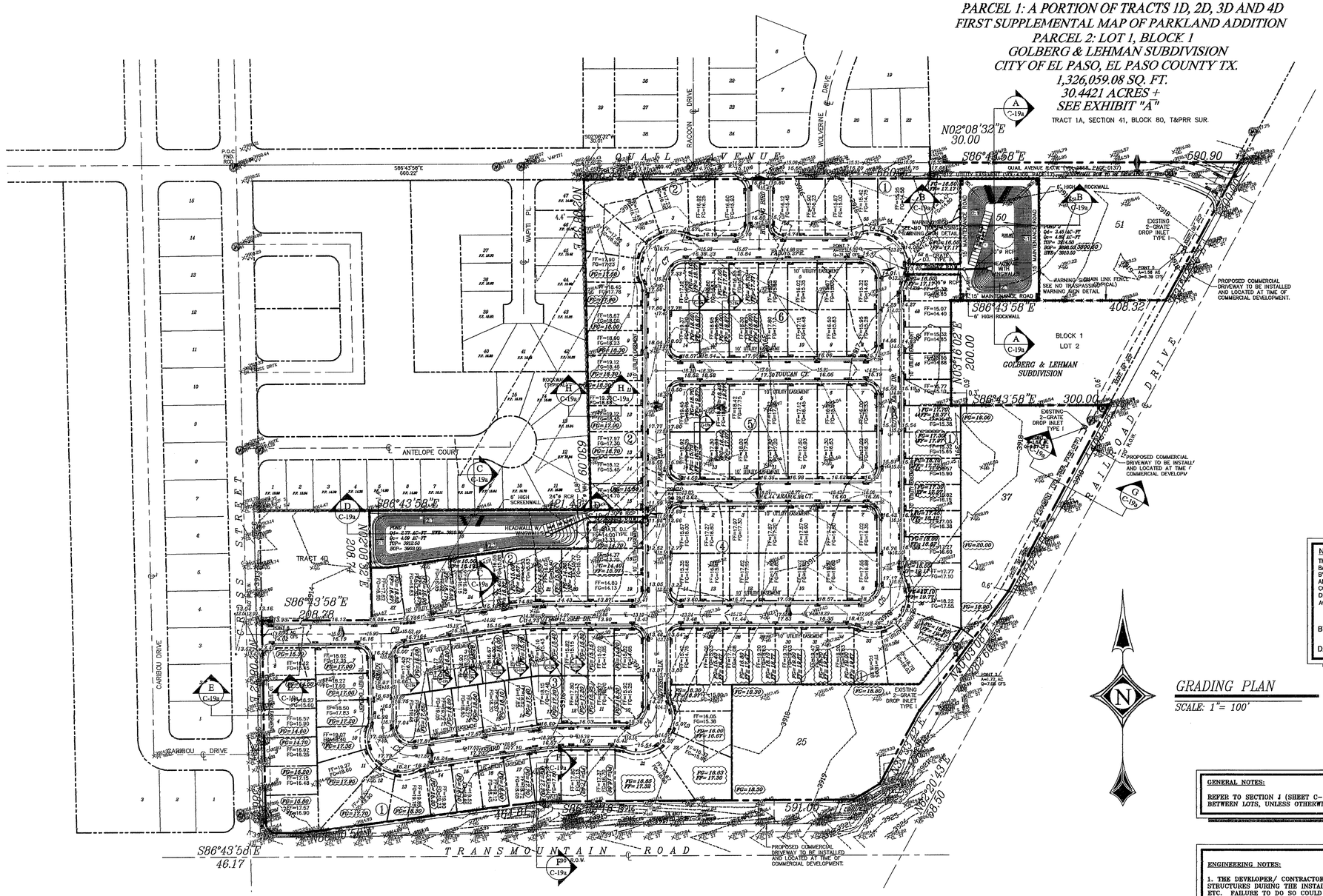
600757

LAYOUT: C01 GRADING PLAN

FILE: Z:\05-WORK DIRECTORY\05-093 FALCON HEIGHTS SUBDIVISION (QUAIL SUB)\dwg\AsBuilts CIVIL 1107050\05-093 C01-GRADING.dwg

PARCEL 1: A PORTION OF TRACTS 1D, 2D, 3D AND 4D
FIRST SUPPLEMENTAL MAP OF PARKLAND ADDITION
PARCEL 2: LOT 1, BLOCK 1
GOLBERG & LEHMAN SUBDIVISION
CITY OF EL PASO, EL PASO COUNTY TX.
1,326,059.08 SQ. FT.
30.4421 ACRES +
SEE EXHIBIT "A"

TRACT 1A, SECTION 41, BLOCK 80, T&PRR SUR.



LEGEND

11.56 SW – SPOT ELEVATIONS
TP– TOP OF PAVEMENT
GU– GUTTER
FL– FLOW LINE
FG– FINISHED GRADE
TC– TOP OF CURB
WA– ELEVATION TOP OF WALL
CO– TOP OF CONCRETE
SW– TOP OF SIDEWALK
EG– EXISTING GRADE
NG– NATURAL GRADE (EXISTING)
TRW– TOP OF RETAINING ON WALL
BW– FG @ BOTTOM OF WALL
TW– TOP OF WALL
3775 – EXISTING MINOR CONTOUR
3775 – EXISTING MAJOR CONTOUR
3780 – PROPOSED MINOR CONTOUR
3780 – PROPOSED MAJOR CONTOUR
RETAINING WALL
SILT FENCE
WATERSHED
SURFACE DRAINAGE
POINT FLOW
HIGH POINT
LOW POINT
P.E.M. (0000.00) – PERM. ELEV. MARKER
(SIZE) – STORM DRAINAGE PIPE
PROPERTY LINE
EASEMENT
ROAD CENTERLINE
WATER LINE
SEWER LINE
GAS LINE
ELECTRIC SERVICE
TELEPHONE SERVICE
STORMWATER DRAIN
CHAINLINK FENCE
BARBWIRE FENCE
GUARDRAIL FENCE
ROCKWALL (Non–Retain.)
IRRIGATION VALVE
FIRE HYDRANT
LIGHT POLE
TELEPHONE MANHOLE
TELEPHONE BOX
UTILITY POLE
GUARD POST
EB – ELECTRIC BOX
SIGN POST
SURVEY MONU. – SURVEY MONUMENT
CITY MONU. – CITY MONUMENT
MBDU – MAIL BOX DELIVERY UNIT

NOTES:
THESE RECORDS DRAWINGS HAVE BEEN PREPARED BY DEL RIO ENGINEERING INC. BASED ON PERIODIC CONSTRUCTION OBSERVATIONS AND INFORMATION PROVIDED BY OTHERS AND REFLECTS CHANGES MADE DURING CONSTRUCTION. THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION HAVE BEEN VERIFIED BY CAD CONSULTING COMPANY SUBMITTED ON 1/29/07. THOSE RELYING ON THIS RECORD DRAWING ARE ADVISED TO OBTAIN INDEPENDENT VERIFICATION OF ITS ACCURACY BEFORE APPLYING IT FOR ANY PURPOSE.

BY: _____

DATE: 3/8/07

GRADING PLAN

SCALE: 1"= 100'

GENERAL NOTES:

REFER TO SECTION J (SHEET C-19a) AS A TYPICAL SECTION BETWEEN LOTS, UNLESS OTHERWISE NOTED.

ENGINEERING NOTES:

1. THE DEVELOPER/ CONTRACTOR SHALL MAINTAIN MINIMUM ADA PASSING REQUIREMENTS ON ALL SIDEWALK STRUCTURES DURING THE INSTALLATION OF FIRE HYDRANTS, STOP SIGNS, STREET SIGNS, UTILITY BOXES, ETC. FAILURE TO DO SO COULD REQUIRE THE REINSTALLATION OF THE OFFENDING STRUCTURES.
2. USE ENGINEERED FILL FOR THE BUILDING PADS.
3. DEL RIO ENGINEERING HAS RECOMMENDED TO THE OWNER TO OBTAIN A SOILS REPORT BEFORE PLACING ANY PERMANENT STRUCTURES TO ASSURE PROPER FOUNDATION AND ASPHALT DESIGN. THE EXISTING ASPHALT ROAD WAS NOT TESTED, THUS D.R.E. DOES NOT WARRANT THE STRUCTURAL STABILITY OF THE ROAD.
4. SEE CITY SUBDIVISION ORDINANCE FOR MAXIMUM DRIVEWAY SLOPES.
5. NO GRADING OR DRAINAGE WILL BE ALLOWED BEYOND THE LIMITS OF THE SUBDIVISION.
6. FILLS SHOULD NOT BE PLACED WHERE THEY WILL SLIDE OR WASH ONTO THE PROPERTY OF OTHERS PROPERTY OWNERS SHALL MAINTAIN ALL SLOPED AREAS.
7. ALL LOTS IN THE SUBDIVISION SHALL MEET ALL REQUIREMENTS SET FORTH IN THE CITY SUBDIVISION REQUIREMENTS
8. SINCE FINAL HOUSE FOOT PRINT IS NOT AVAILABLE TYPICAL GRADING IS SHOWN, ACTUAL HOUSE PAD WILL BE USED AT TIME OF BUILDING USING THE TYPICAL GRADING CRITERIA. NO ADDITIONAL GRADING PERMIT SHALL BE REQUIRED.

SITE PREPARATION:

1) REMOVE VEGETATION, DEBRIS, UNSATISFACTORY MATERIALS, OBSTRUCTIONS AND DELETERIOUS MATERIALS FROM GROUND SURFACE PRIOR TO PLACEMENT OF FILLS.
2) THE EXPOSED SUBGRADE SHOULD BE SCARIFIED JUST PRIOR TO FILL PLACEMENT TO A MINIMUM DEPTH OF 8" AND RECOMPACTED TO A MINIMUM OF 95% OF THE MAXIMUM DENSITY AS DETERMINED BY ASTM D- 557 COMPACTION TEST.
3) THE WATER CONTENT OF THE SUBGRADE SHOULD BE MAINTAINED SLIGHTLY ABOVE OPTIMUM MOISTURE CONTENT UNTIL PERMANENTLY COVERED. SUBGRADE COMPACTED BETTER THAN 3 PERCENTAGE POINTS ABOVE THE OPTIMUM WATER CONTENT SHOULD NOT BE ACCEPTED WITHOUT INSPECTION BY THE GEOTECHNICAL ENGINEER.

SITE FILL:

1) MATERIALS USED AS FILL SHALL BE GRANULAR, FREE OF DELETERIOUS MATERIALS AND HAVE A LIQUID LIMIT LESS THAN 40 AND A PLASTICITY INDEX LESS THAN 12.
2) FILL SOIL SHOULD BE PLACED IN 12" THICK LOOSE LIFTS AND IMPACTED TO AT LEAST 95% MAXIMUM DENSITY AS DETERMINED BY ASTM D-1557 COMPACTION TEST
3) HOUSE PADS MUST BE OF THE ABOVE MATERIAL.

LEGEND:
AS-BUILT CONDITION:

GENERAL NOTES

1. THE FOLLOWING NOTES ARE MEANT AS A SUPPLEMENT ONLY AND ARE NOT INTENDED TO BE COMPLETE INSTRUCTIONS FOR THE OWNER / CONTRACTOR. THE CONTRACTOR MUST BE FAMILIAR TO LOCAL/CITY/STATE/FEDERAL CODES AND REGULATIONS.
2. IMPROVEMENT WITHIN CITY R.O.W. SHALL COMPLY WITH TITLE 19–SUBDIVISION ORDINANCE– "SUBDIVISION IMPROVEMENT DESIGN STANDARDS".
3. 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, AND PIPING ETC. SHALL BE PROVIDED AS NECESSARY.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION AND NOTIFICATION WITH ALL PERTINENT 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.
5. 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.
6. ALL ELEVATIONS ARE TO CITY DATUM UNLESS OTHERWISE NOTED.
7. ALL WASTE MATERIALS INCLUDING EXCAVATION, CURBING, PAVEMENT, ETC. SHALL BE DISPOSED OF AS DESIGNATED BY THE OWNER OR HIS REPRESENTATIVE.
8. THE CONTRACTOR SHALL NOTIFY THE OWNER, OR HIS REPRESENTATIVE, IN SUFFICIENT TIME IN ADVANCE OF DELIVERY OF MATERIALS TO BE SUPPLIED BY HIM UNDER THIS PROJECT, IN ORDER THAT THE OWNER MAY ARRANGE, IF DESIRED, INSPECTION AND TESTING FOR SAME.
9. SAFE AND REASONABLE ACCESS FOR THIS SITE MUST BE MAINTAINED AT ALL TIMES DURING THE LIFE OF THE PROJECT.
10. ANY CAVITY REMAINING OPEN DURING NON–WORKING HOURS MUST BE GUARDED BY FLASHER TYPE BARRICADES WITH STRINGERS PLACED BETWEEN THE TOPS OF THE BARRICADES.
11. ALL DRAINAGE EASEMENTS AND DRAINAGE INFRASTRUCTURE (CULVERTS, DETENTION BASINS, ETC.) WILL BE MAINTAINED PER MUNICIPALITY REQUIREMENTS.

EARTHWORK NOTES

1. ALL GRADING SHALL CONFORM TO ALL APPLICABLE MUNICIPALITY ORDINANCES.
2. 95% COMPACTION REQUIRED ON CUTS AND 95% COMPACTION REQUIRED ON FILLS AND FOR STRUCTURES AS PER ASTM D1557.
3. THE CONTRACTOR SHALL CARRY ON HIS WORK WITH SPECIAL CARE AT ALL TIMES TO MAINTAIN THE NATURAL "URROUNDINGS AND EXISTING STRUCTURES IN AN UNDAMAGED CONDITION.
4. NATURAL SUBGRADES TO SUPPORT STRUCTURAL FILL OR PAVEMENTS SHOULD BE STRIPPED OF ALL VEGETATION OR ORGANIC TOPSOIL. THE EXPOSED SUBGRADE SHOULD BE SCARIFIED JUST PRIOR TO FILL PLACEMENT TO A MINIMUM DEPTH OF 8 INCHES AND RECOMPACTED TO A MINIMUM OF 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.
5. TEMPORARY DUST EROSION CONTROL MEASURES SHALL BE PROVIDED FOR AT ALL TIMES.
6. 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.
7. DRIVEWAYS SHALL NOT OBSTRUCT RUNOFF.

ENGINEERING NOTES:

RETAINING WALLS WILL BE REQUIRED WHERE THERE IS MORE THAN A 2' OR MORE DIFFERENCE BETWEEN THE LOTS AND THE STREET. RETAINING WALLS OVER 4' WILL NEED TO BE DESIGNED BY A REGISTERED CIVIL ENGINEER AND MUST BE SUBMITTED TO THE CITY OF EL PASO FOR APPROVAL PRIOR TO THE CONSTRUCTION OF THE RETAINING WALL.

CONSTRUCTION NOTES:

1. SIGHT DISTANCE INFORMATION:
   NOTE: AREAS WITHIN THE SAFETY TRIANGLE ARE TO BE CLEAR OF LANDSCAPING, SIGNS, OR OTHER VISIBILITY OBSTRUCTIONS WITH A HEIGHT GREATER THAN THREE (3) FEET. TREES WITHIN THE SAFETY TRIANGLE SHALL HAVE A CANOPY THAT BEGINS AT SEVEN (7) FEET IN HEIGHT.
2. SIGNS REQUIRE SEPARATE APPROVALS AND PERMITS.
3. ALL CONCRETE FOR STRUCTURES SHALL BE 3000 P.S.I. UNLESS OTHERWISE NOTED.
4. MINIMUM COVER FOR REINFORCING STEEL SHALL BE 2" UNLESS OTHERWISE NOTED.
5. REINFORCING SHALL CONFORM TO THE REQUIREMENTS OF ASTM A615 GRADE 60.

600757

Release Dates.
9/19/05
Revisions:
10/25/05 -0.3

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3/8/07
STATE OF TEXAS
S.B. MASOUD
70774
LICENSED PROFESSIONAL ENGINEER

Del Rio Engineering, Inc.
P.O. Box 220251 El Paso, Texas 79913 915/833-2400

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GRADING PLAN

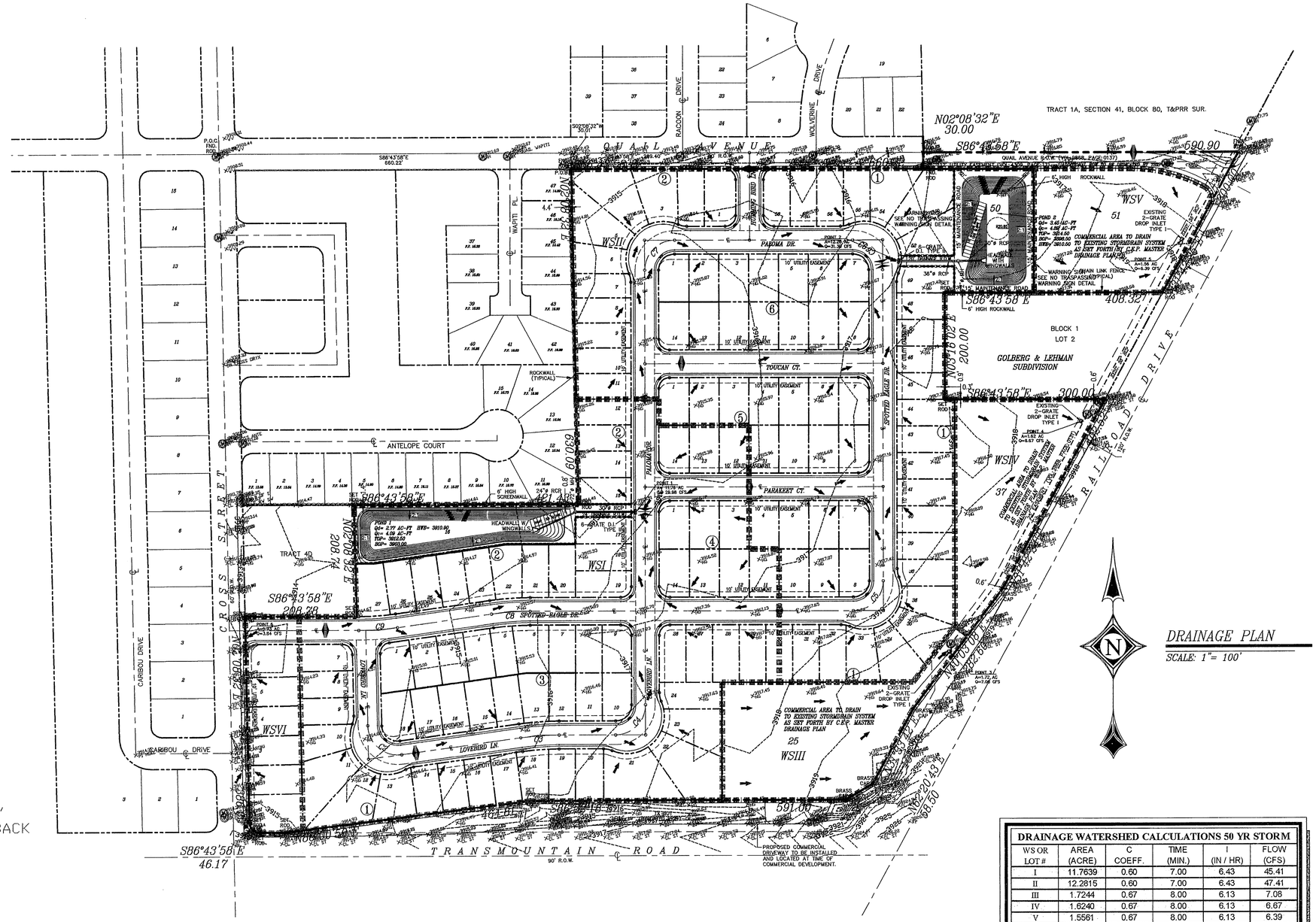
FALCON HEIGHTS SUBDIVISION
PARCEL 1: A PORTION O F TRACTS 1D, 2D, 3D AND 4D
FIRST SUPPLEMENTAL MAP OF PARKLAND ADDITION
CITY OF EL PASO, EL PASO COUNTY TX.

Project #: J05-093	Design By: AFJ	
Plot Date: 3/07/07	Drawn By: JM	
SHEET: C-01	Scale: 1"=100'	

LAYOUT: C02 DRAINAGE PLAN

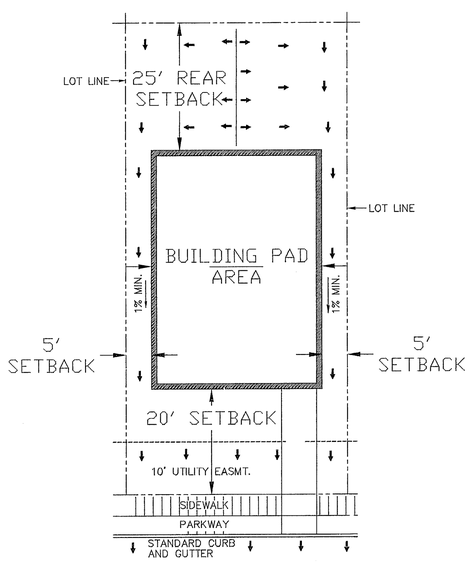
LEGEND

- 11.56 SW – SPOT ELEVATIONS
- TP– TOP OF PAVEMENT
- GU– GUTTER
- FL– FLOW LINE
- FG– FINISHED GRADE
- TC– TOP OF CURB
- WA– ELEVATION TOP OF WALL
- CO– TOP OF CONCRETE
- SW– TOP OF SIDEWALK
- EG– EXISTING GRADE
- NG– NATURAL GRADE (EXISTING)
- TRW– TOP OF RETAINING ON WALL
- BW– FG @ BOTTOM OF WALL
- TW– TOP OF WALL
- EXISTING MINOR CONTOUR
- 3775 EXISTING MAJOR CONTOUR
- PROPOSED MINOR CONTOUR
- 3780 PROPOSED MAJOR CONTOUR
- RETAINING WALL
- SILT FENCE
- WATERSHED
- SURFACE DRAINAGE
- "X" POINT FLOW
- HIGH POINT
- LOW POINT
- P.E.M. (XXXX.XX) PERM. ELEV. MARKER
- STORM DRAINAGE PIPE
- PROPERTY LINE
- EASEMENT
- ROAD CENTERLINE
- WATER LINE
- SEWER LINE
- GAS LINE
- ELECTRIC SERVICE
- TELEPHONE SERVICE
- STORMWATER DRAIN
- CHAINLINK FENCE
- BARBWIRE FENCE
- GUARDRAIL FENCE
- ROCKWALL (Non–Retain.)
- IRVM IRRIGATION VALVE
- FIRE HYDRANT
- LIGHT POLE
- TELEPHONE MANHOLE
- TB TELEPHONE BOX
- UTILITY POLE
- GP GUARD POST
- EB ELECTRIC BOX
- SIGN POST
- SURVEY MONU. SURVEY MONUMENT
- CITY MONU. CITY MONUMENT
- MBDU MAIL BOX DELIVERY UNIT



DRAINAGE PLAN

SCALE: 1"= 100'



TYPICAL LOT LAYOUT

SCALE: N.T.S.

NOTE:

SETBACK FOR SIDE YARD ABUTTING STREET = 10 FEET.

DRIVEWAY NOTE:

DRIVEWAY SLOPES MUST BE 10% MAX.
FROM GUTTER FOR FIRST 12 FT. AND
14% MAX. THEREAFTER (BLDG. CD. 18.08.060 C)

NOTES:
SEE STORM DRAIN PROFILES
FOR STORMDRAIN SIZING

NOTES:

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BY: _____

DATE: 3/8/07

DRAINAGE WATERSHED CALCULATIONS 50 YR STORM

WS OR LOT #	AREA (ACRE)	C COEFF.	TIME (MIN.)	I (IN / HR)	FLOW (CFS)
I	11.7639	0.60	7.00	6.43	45.41
II	12.2815	0.60	7.00	6.43	47.41
III	1.7244	0.67	8.00	6.13	7.08
IV	1.6240	0.67	8.00	6.13	6.67
V	1.5561	0.67	8.00	6.13	6.39
VI	0.9339	0.67	8.00	6.13	3.84

Ponding Calculations (4in / 3hr for A<200 acres) 100 Year Storm

Watershed or Lot #	Area (Acre)	C	I (Inches)	Capacity Calc'd (Acre-feet)	Silt Capacity (Acre-feet)	Total Calc'd (Acre-feet)	Total Calc'd (Cubic-feet)	Pond Calc'd +25% (Acre-feet)	Pond Calc'd +25% (Cubic-feet)	CAPACITY PROVIDED (Cubic-feet)	HIGH WATER ELEVATION
I	11.7639	0.60	4.00	2.35	0.14	2.49	108638.64	3.12	135,798.30	136,056.17	3911.40
II	12.2815	0.60	4.00	2.46	0.15	2.60	113415.98	3.25	141,769.97	172,597.05	3911.10

600757

Release Dates:

Revisions:

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3/8/07 STATE OF TEXAS S.B. MASOUD 70774 PROFESSIONAL ENGINEER

DRE Del Rio Engineering, Inc.
P.O. Box 220251 El Paso, Texas 79913 915/833-2400

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DRAINAGE PLAN

FALCON HEIGHTS SUBDIVISION

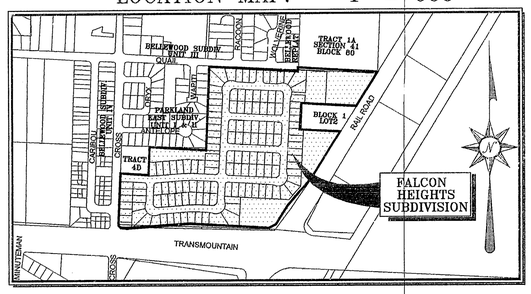
PARCEL 1: A PORTION O F TRACTS 1D, 2D, 3D AND 4D
FIRST SUPPLEMENTAL MAP OF PARKLAND ADDITION
CITY OF EL PASO, EL PASO COUNTY TX.

Design By:	AFJ
Drawn By:	JM
Scale:	1" = 100'
Project #:	J05-093
Plot Date:	3/07/07
SHEET:	C-02

FILE: Z:□J05-WORK DIRECTORY□J05-093 FALCON HEIGHTS SUBDIVISION (QUAIL SUB) □dwg□AsBuilts CIVIL 110705□J05-093 C02-DRAINAGE.dwg

LAYOUT: STORMWATER POLLUTION PREVENTION PLAN

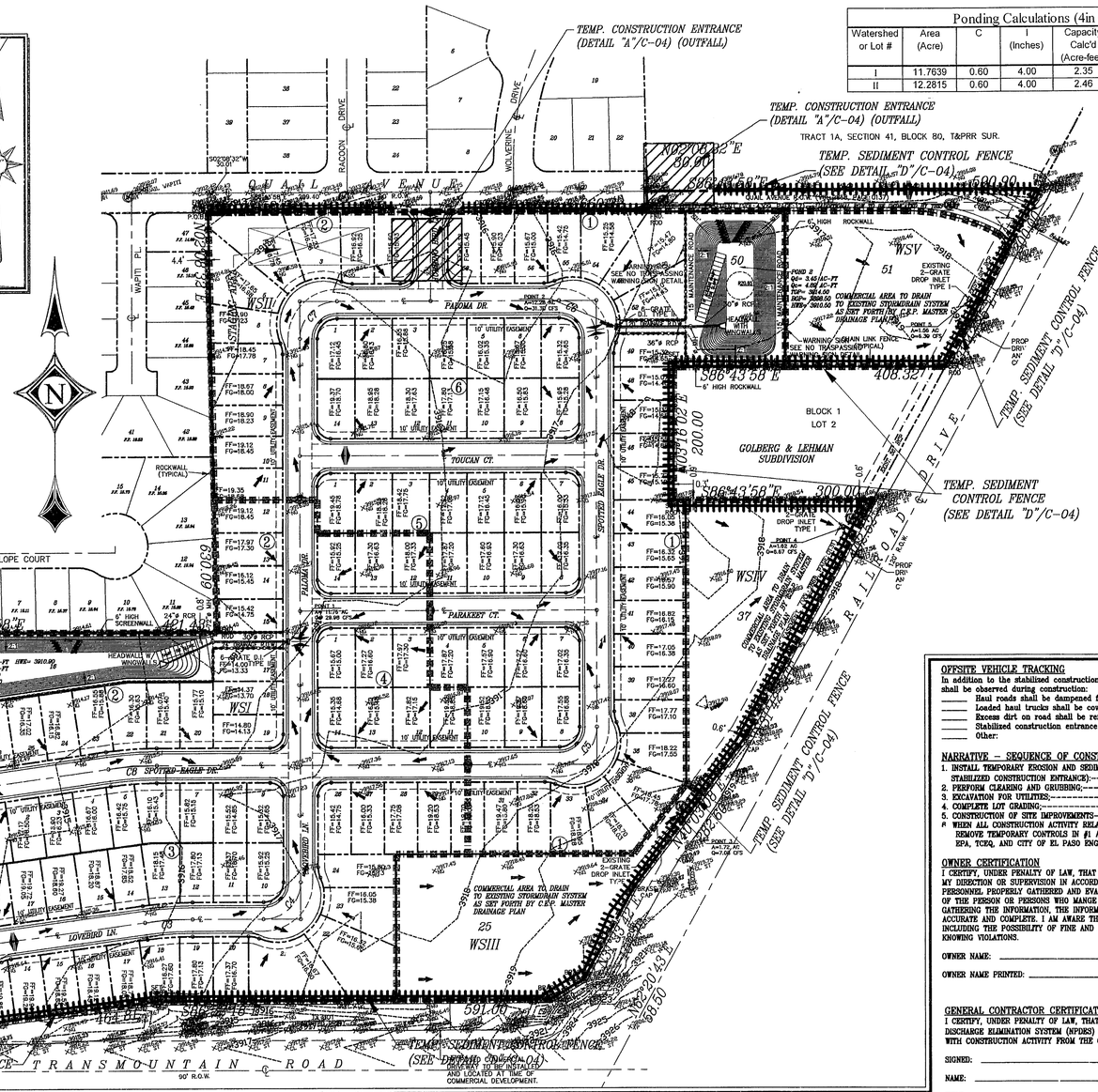
LOCATION MAP: 1' = 600'

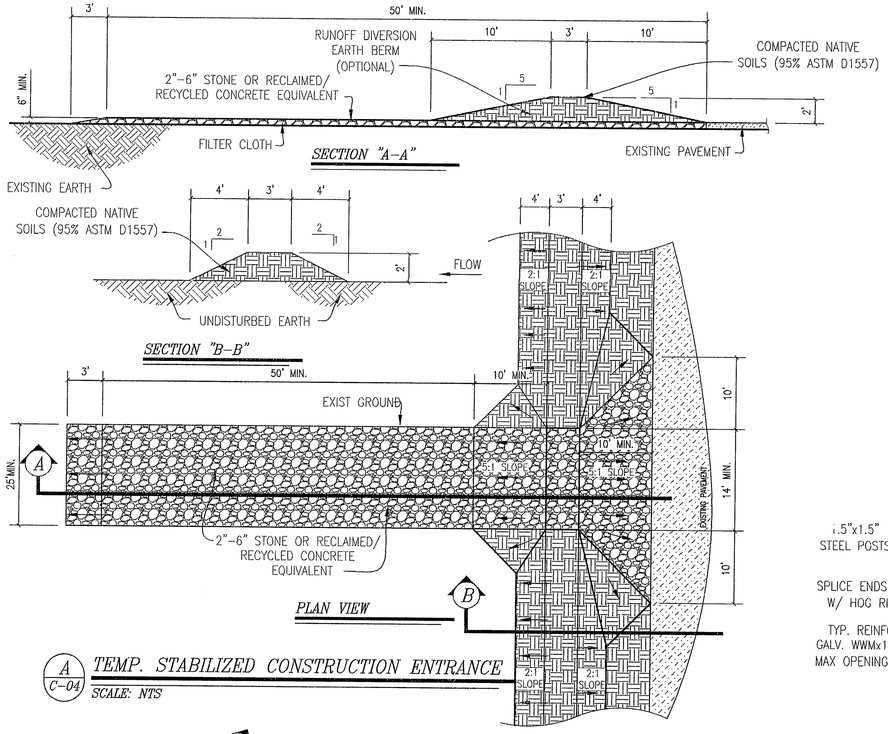


WARNING BEFORE YOU DIG !!
THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING UNDERGROUND UTILITIES WITHIN THE PROJECT AREA AND CONTACT THE RESPECTIVE AGENCIES PRIOR TO DIGGING.

STORMWATER POLLUTION PREVENTION PLAN

SCALE: 1" = 100'


TEMP. CONSTRUCTION ENTRANCE (DETAIL "A"/C-04) (OUTFALL)
TEMP. CONSTRUCTION ENTRANCE (DETAIL "A"/C-04) (OUTFALL)
TRACT 1A, SECTION 41, BLOCK 80, T&PRR SUR.
TEMP. SEDIMENT CONTROL FENCE (SEE DETAIL "D"/C-04)
QUAIL AVENUE
RACOON DRIVE
WOLVERINE DRIVE
PAIOMA DR.
TOUCAN CT.
PARAKEET CT.
CB SPOTTED EAGLE DR.
LOVEBIRD LN.
ANTELOPE COURT
CARIBOU DRIVE
CROSS STREET
TRANSMOUNTAIN ROAD
RAILROAD DRIVE
BLOCK 1 LOT 2
GOLBERG & LEHMAN SUBDIVISION
TRACT 4D
S86°43'58"E 208.78
S86°43'58"E 46.17
S86°43'58"E 408.32
S86°43'58"E 300.00
S86°43'58"E 591.00
N03°16'02"E 200.00
N03°16'02"E 50.00
N03°16'02"E 568.50
N03°16'02"E 200.73
N03°16'02"E 60.00
N03°16'02"E 60.00
N03°16'02"E 60.00



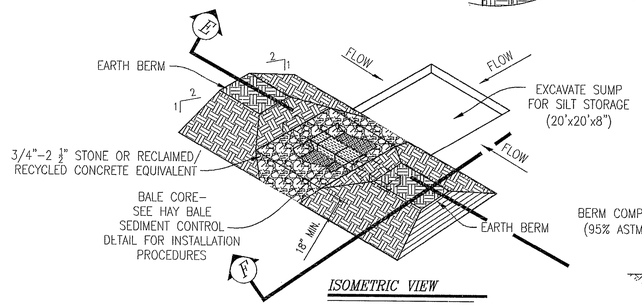
SECTION "A-A"

SECTION "B-B"

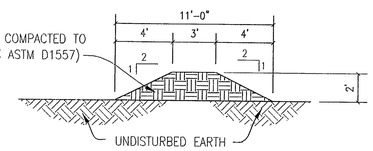
PLAN VIEW

A C-04 TEMP. STABILIZED CONSTRUCTION ENTRANCE

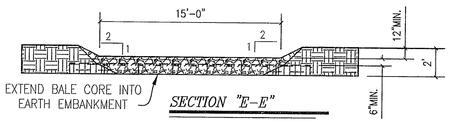
SCALE: NTS



ISOMETRIC VIEW



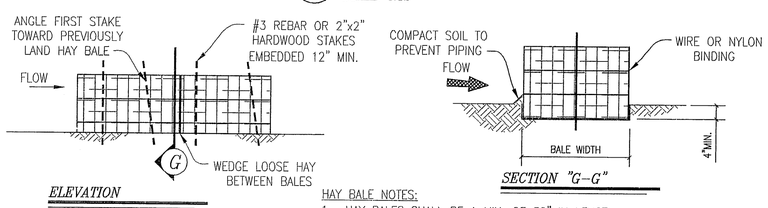
SECTION "F-F"



SECTION "E-E"

C C-04 TEMPORARY ROCK BERM W/ SEDIMENT TRAP

SCALE: NTS



ELEVATION

SECTION "G-G"

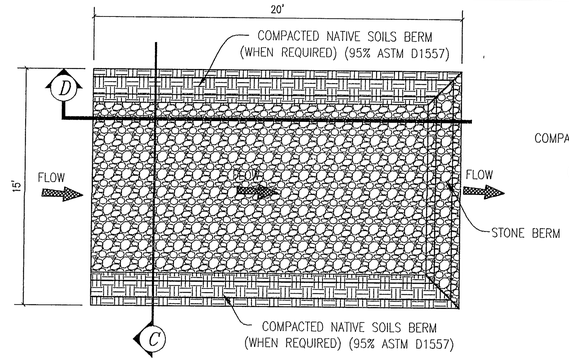
HAY BALE NOTES:

1. HAY BALES SHALL BE A MIN. OF 30" IN LENGTH.
2. HAY BALES SHALL BE PLACED IN A ROW W/ ENDS TIGHTLY ABUTTING THE ADJACENT BALES. THE BALES SHALL BE PLACED W/ BINDINGS PARALLEL TO THE GROUND.
3. THOROUGHLY COMPACT THE GROUND ON THE UPSIDE OF THE HAY BALES.

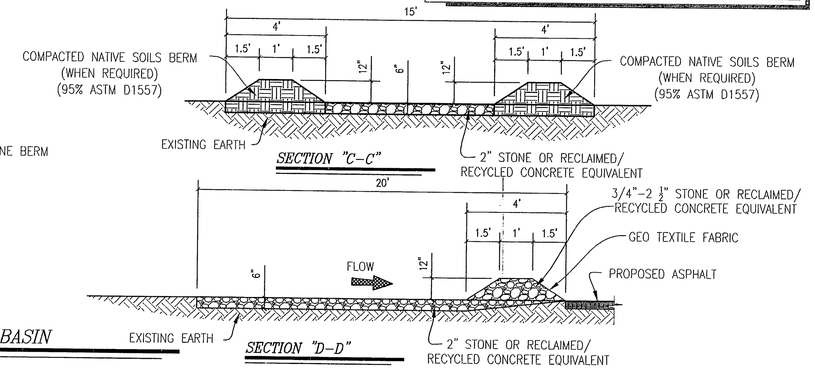
F C-04 TEMPORARY HAY BALE EROSION FENCE

SCALE: NTS

NOTE:
~SEE S.W.P.P. PLAN NOTES FOR APPROPRIATE AND REQUIRED STRUCTURES.~
(STRUCTURES SHOWN MAY NOT BE REQUIRED FOR THIS PROJECT)



PLAN VIEW

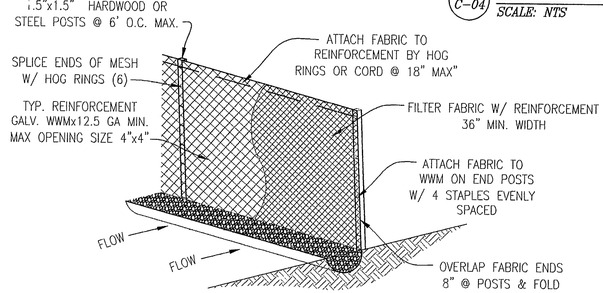


SECTION "C-C"

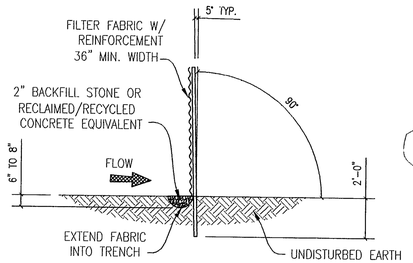
SECTION "D-D"

B C-04 DESILTING BASIN

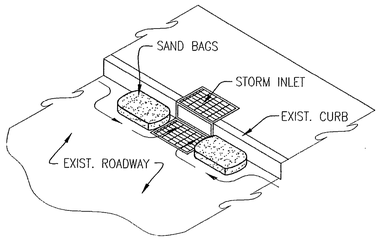
SCALE: NTS



ISOMETRIC VIEW



SECTION VIEW



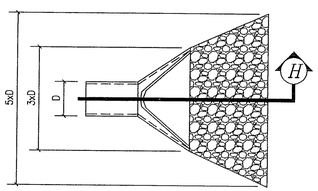
E C-04 INLET PROTECTION BARRIER

SCALE: NTS

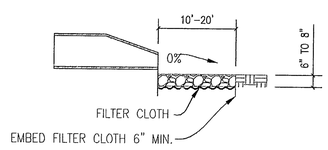
NOTE:
REINFORCEMENT AND FILTER FABRIC TO BE DIRECTED BY THE ENGINEER.
POULTRY NETTING SHALL NOT BE ALLOWED AS A REINFORCEMENT MATERIAL.

D C-04 TEMPORARY SEDIMENT CONTROL FENCE

SCALE: NTS



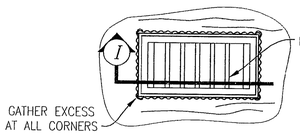
PLAN VIEW



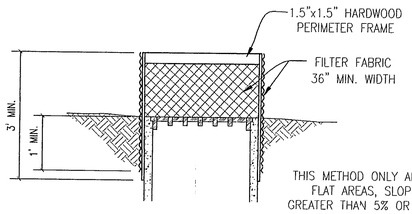
SECTION "H-H"

G C-04 TEMPORARY PIPE OUTLET EROSION CONTROL

SCALE: NTS



PLAN VIEW

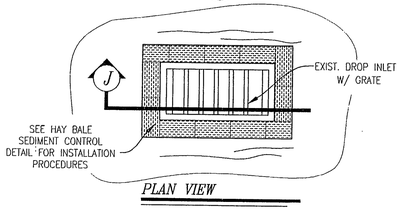


SECTION "I-I"

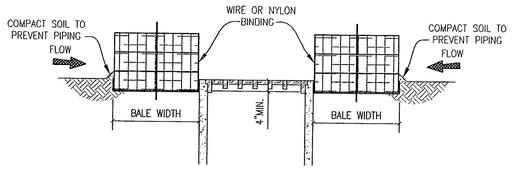
THIS METHOD ONLY APPLIES TO FLAT AREAS, SLOPES NO GREATER THAN 5% OR OVERLAND FLOWS NOT EXCEEDING 1 C.F.S. THIS METHOD DOES NOT APPLY TO STREET OR HIGHWAY MEDIANS.

H C-04 TEMPORARY INLET PROTECTION BARRIER FENCE

SCALE: NTS



PLAN VIEW



SECTION "J-J"

I C-04 TEMPORARY INLET PROTECTION STRAW BALES

SCALE: NTS

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BY: _____

DATE: 3/8/07

Release Dates:

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3/8/07 STATE OF TEXAS S.B. MASOUD 70774 REGISTERED PROFESSIONAL ENGINEER

Del Rio Engineering, Inc.
P.O. Box 220251 El Paso, Texas 79913 915/833-2400

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STORMWATER POLLUTION CONTROL DETAILS

FALCON HEIGHTS SUBDIVISION

PARCEL 1: A PORTION O F TRACTS 1D, 2D, 3D AND 4D FIRST SUPPLEMENTAL MAP OF PARKLAND ADDITION CITY OF EL PASO, EL PASO COUNTY TX.

Project #: J05-093	Design By: AFJ
Plot Date: 3/07/07	Drawn By: JM
SHEET: C-04	Scale: AS NOTED

600757

LAYOUT: C04 SWPP DETAILS

FILE: Z:\J05-WORK DIRECTORY\J05-093 FALCON HEIGHTS SUBDIVISION (QUAIL SUB)\J05wgCAd\Bulls CIVIL 110705\J05-093 C04-STORMWATER DETAILS.dwg

LAYOUT: ILLUMINATION PLAN

FILE: Z:□J05-WORK DIRECTORY□J05-093 FALCON HEIGHTS SUBDIVISION (QUAIL SUB)□dwg□AsBuilts CIVIL 110705□J05-093 C05-ILLUMINATION PLAN.dwg

NOTES:
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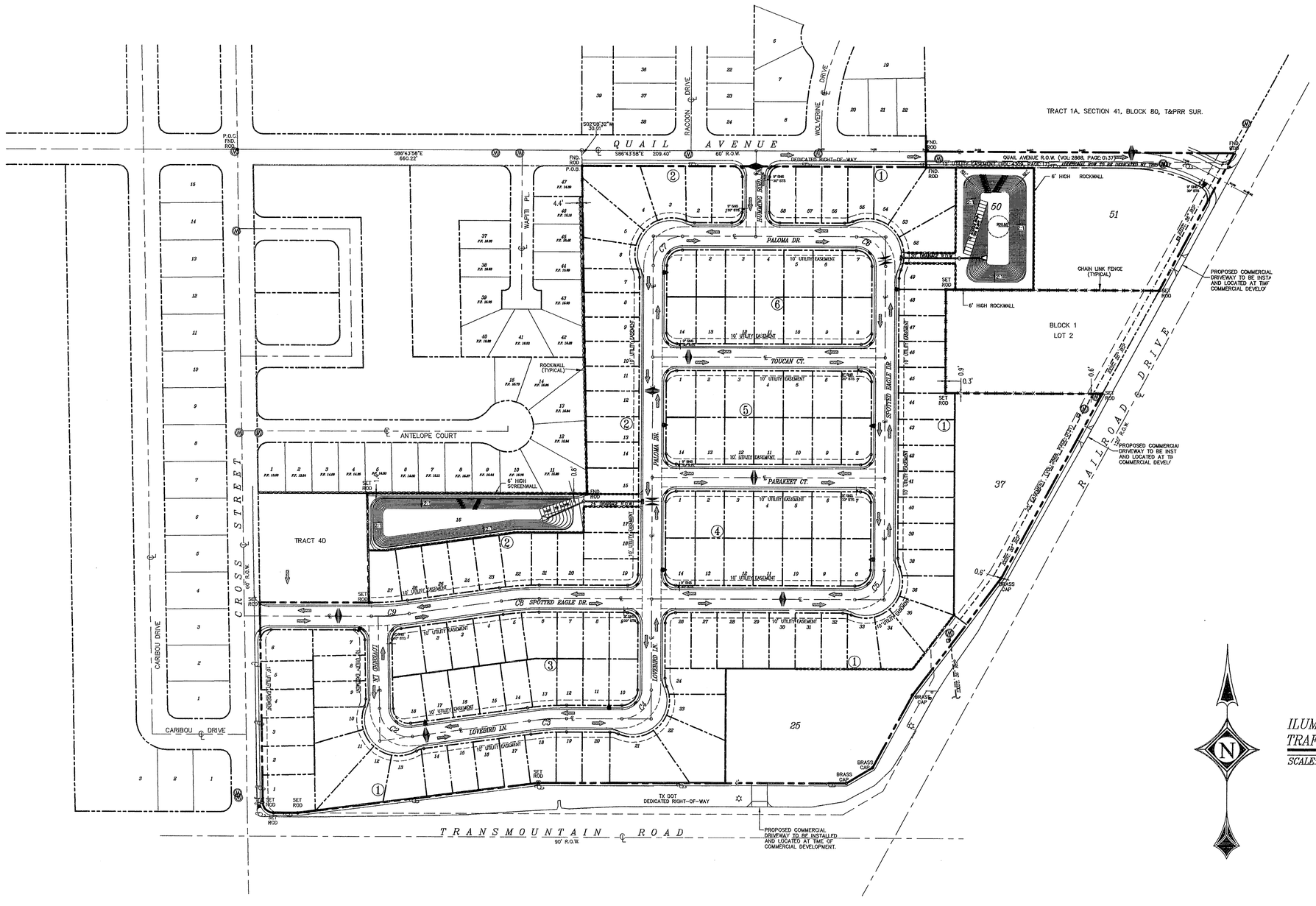
BY: _____

DATE: 3/8/07

LEGEND

- RESIDENTIAL STREET LIGHT LOCATION
- PROPOSED STOP SIGN LOCATION WITH STREET NAME SIGN
- TRAFFIC FLOW ARROWS
- NDCBU MAIL BOX DELIVERY UNIT



ILUMINATION & TRAFFIC CONTROL PLAN

SCALE: 1"= 100'

Release Dates:
Revisions:
-
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3/8/07
STATE OF TEXAS
S.B. MASOUD
70774
REGISTERED PROFESSIONAL ENGINEER

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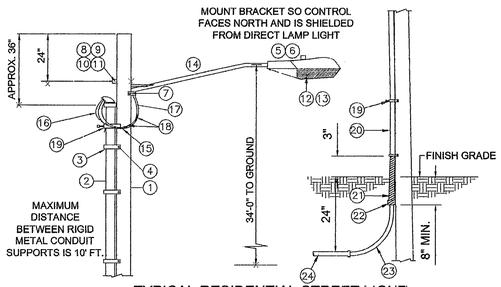
ILLUMINATION & TRAFFIC CONTROL PLAN

FALCON HEIGHTS SUBDIVISION

PARCEL 1: A PORTION O F TRACTS 1D, 2D, 3D AND 4D
FIRST SUPPLEMENTAL MAP OF PARKLAND ADDITION
CITY OF EL PASO, EL PASO COUNTY TX.

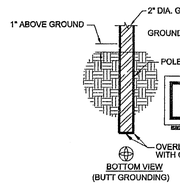
Project #: J05-093	Design By: AFJ		
Plot Date: 3/07/07	Drawn By: JM		
SHEET: C-05	Scale: 1" = 100'		

600757



TYPICAL RESIDENTIAL STREET LIGHT WOOD POLE DETAIL

SCALE : N.T.S.



DISTRIBUTION DETAIL

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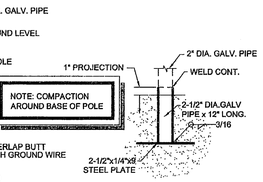
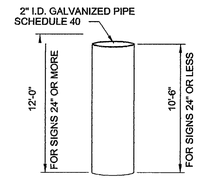


POST SLEEVE DETAIL

SCALE: N.T.S.



NOTES:
1. WELD ALONG ITS LENGTH TO FORM VIRTUALLY SEAMLESS.
2. POST SHALL BE HOT-DIPPED ZINC GALVANIZED UNIFORMLY ON THE OUTSIDE WITH A NOMINAL ZINC WEIGHT OF 1.0 OUNCE PER SQUARE FOOT.
3. THE ZINC COATING IS TO BE OVER-COATED WITH A CHROMITE CONVERSION AND ACRYLIC COATING TO PROVIDE RESISTANCE TO RUSTING AND CORROSION.
4. THE INSIDE OF THE POST SHALL BE COATED WITH AN ORGANIC MATERIAL FOR PROTECTION AGAINST RUST.
5. BOTH ENDS ARE TO BE SQUARELY CUT WITHOUT FLARE.
6. POST SHALL BE FREE OF WARPS, CORROSION, OR OTHER DEFECTS.
7. RING WELDS OR SPLICES WILL NOT BE ACCEPTABLE.
8. BENDING STRENGTH AS SPECIFIED BY AASHTO FOR SCHEDULE 40 PIPE.
9. POST SHALL BE BUNDLE WITH METAL STRAPS AND SHALL NOT EXCEED 37 POST PER BUNDLE.

SIGN POSTS SPECIFICATIONS

SCALE: N.T.S.

NOTES:
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BY: _____

DATE: 3/8/07

Release Dates:

Revisions:

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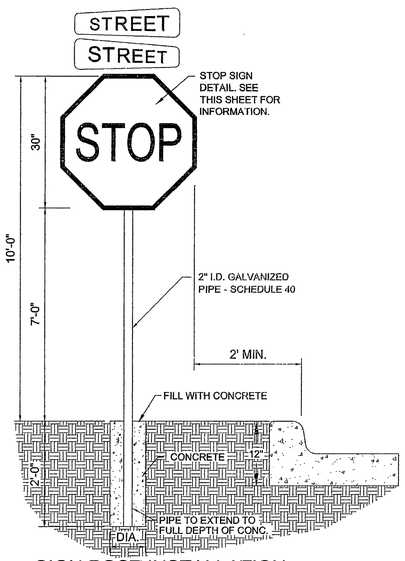
3/08/07
STATE OF TEXAS
S.B. MASOUD
70774
PROFESSIONAL ENGINEER

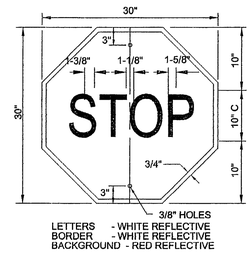
RESIDENTIAL STREET LIGHT POLE SCHEDULE

ITEM NO.	DESCRIPTION	QTY. PER LIGHT
1	POLE, PENTA TREATED PINE 40' CLASS III	1
2	1/2" RIGID GALVANIZED STEEL CONDUIT	27
3	TWO HOLE STEEL PIPE STRAP FOR 1/2" CONDUIT	4
4	1/4" X 1" LAG BOLT	8
5	PHOTO CELL RECEPTABLE WITH 1/2" THREADED BASE AND MOUNTING BRACKET	1
6	PHOTO CELL 240V.	1
7	1/2" X 4" LAG BOLT	4
8	MACHINE BOLT, 5/8" X 8"	1
9	WASHER, SQUARE GALV. 2 1/4" X2 1/4"	1
10	WASHER, COIL-SPRING 5/8"	1
11	LOCKNUT 5/8"	1
12	LUMINAIRE 100W H.P.S.	1
13	HPS LAMP, 100W	1
14	STEEL LUMINARE SUPPORT (10' OR 8') UNION METAL MANUF. CO. DESIGN 348 OR EQUIVALENT.	1
15	2- #12 COPPER WIRES WITH THW INSULATION	
16	2- #12 COPPER WIRES WITH THW INSULATION	
17	CABLE, #10, 2 CONDUCTOR, 600V, UF	
18	SLEEVES, #12-10	2
19	GROUNDING CLAMP FOR 1/2" RIGID CONDUIT	1
20	1/2" PVC COATED RIGID STEEL, COUPLING	1
21	1/2" X 8" PVC COATED RIGID STEEL CONDUIT NIPPLE	1
22	1/2" SCHEDULE 40 PVC FEMALE ADAPTER	1
23	1/2" SCHEDULE 40 PVC 18" RADIAL BEND	1
24	1/2" SCHEDULE 40 PVC COUPLING	1



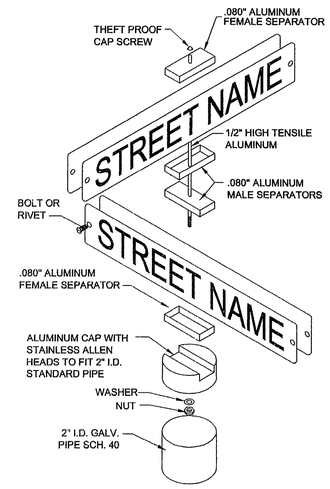
SIGN POST INSTALLATION

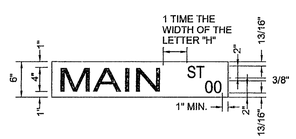
SCALE: N.T.S.



STOP SIGN DETAIL

SCALE 1" = 5'

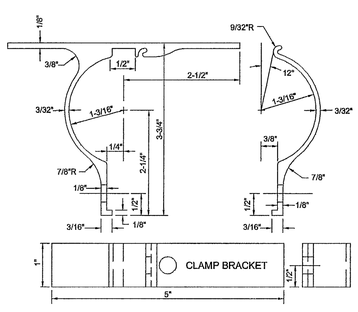




SIGN CLASS	SIGN LENGTH	PRIMARY LETTERS SIZE & SERIES	SUFFIX & BLOCK NUMBER SIZE AND SERIES
6"	24"	4" C,D, SERIES	2" C SERIES
ARTERIAL	30"	4" C,D, SERIES	2" C SERIES
STREETS	36"	4" A,B,C,D, SERIES	2" C SERIES

STREET SIGN

SCALE : N.T.S.



ALUMINUM SIGN CLAMP BRACKET

SCALE: N.T.S.

NOTES:
1. ALL HOLES 3/8" PUNCH.
2. FILLETS & ROUNDS 1/16"= R.
3. FURNISH THE FOLLOWING HARDWARE FOR EACH BRACKET :
1 -5/16" X 3/4" BOLTS
1 -5/16" X 1 1/4" BOLT
2 -5/16" X NUTS & WASHERS
2 -FLAT WASHERS
4. THE BRACKET IS TO BE MADE FROM HIGH STRENGHT ALUMINUM ALLOY. THE BRACKET IS TO EMPLOY AN EXTRUDED INTERLOCKING FEATURE OFFERING A RIGID MEANS OF ATTACHING A FLAT SIGN TO A STANDARD 2" I.D. TUBULAR POST.

CITY OF EL PASO SPECIFICATION FOR REFLECTORIZED STREET NAME SIGNS

1. COLOR OF SIGN: THE FINISHED SIGN MUST HAVE A REFLECTORIZED GREEN BACKGROUND. THE GREEN MUST CONFORM WITH THE BUREAU OF PUBLIC ROADS HIGHWAY GREEN. THE LEGEND MUST BE REFLECTORIZED SILVER WHITE (GREEN REVERSE SCREENED BACKGROUND WITH SILVER COPY).
2. LETTER DESIGN: THE LETTERING OF ALL LEGENDS MUST BE UPPER CASE LETTERS IN ACCORDANCE WITH "STANDARD ALPHABETS FOR HIGHWAY SIGN PUBLISHED BY THE FEDERAL HIGHWAY ADMINISTRATION.
3. LETTER SPACING: THE CONTROL FOR THE SPACING VALUES IN TRAFFIC LAYOUT IS THE DISTANCE RECOGNIZED AS AESTHETIC SPACING BETWEEN TWO STRAIGHT LETTERS (HN). A SPACING CONTROL OF TWO TIMES THE WIDTH OF THE STROKE OF THE LETTER SERIES TO BE USED MUST BE THE AESTHETIC CONTROL (100%). TWO AND ONE-HALF TIMES (2-1/2") THIS CONTROL MUST BE USED AS THE AESTHETIC WORD SPACE BETWEEN ELEMENTS IN THE PRIMARY LEGEND.
4. LAYOUT: THE MAXIMUM NUMBER OF LETTERS TO BE ACCOMMODATED ON GIVEN LENGTH STREET NAME FACE MUST BE DETERMINED BY THE WIDEST LETTER SERIES POSSIBLE FOR THAT LEGEND AND THE SPACING CONTROL (100%) FOR THE SERIES USED MUST BE EXPANDED OR CONDENSED UP TO 25% IN 5% INCREMENTS.
5. THE SPACING CONTROL (100%) FOR THE SERIES USED MUST BE EXPANDED OR CONDENSED UP TO 25% IN 5% INCREMENTS FOR THE END MARGIN WITH MIN. OF 1"
6. THE WORD SPACE MUST BE EXPANDED UP TO 25% IN 5% INCREMENTS BUT NOT CONDENSED.
7. SPACE BETWEEN PRIMARY AND BLOCK NUMBER AREA MUST BE 1/2 THE AESTHETIC WORK SPACE USED IN THE PRIMARY LEGEND.
8. SIZE OF LEGEND: FOR 6" STREET NAME SIGNS THE PRIMARY LEGEND OR STREET NAME MUST HAVE CAPITAL LETTERS FOUR INCHES (4") HIGH AND ALL SECONDARY LEGENDS, INCLUDING THE SUFFIX, AND CLOCK NUMBERS MUST HAVE UPPER CASE LETTERS TWO INCHES (2") HIGH.
9. SUFFIX LETTER SIZE FOR ALL LENGTHS MUST BE 2" CAPITAL, C SERIES, EXCEPT THAT SERIES A OR B WHERE SUFFIX ABBREVIATION EXCEEDS TWO LETTERS, MAY BE USED.
10. SIZE OF LEGEND: FOR 9" STREET NAME SIGNS, THE PRIMARY LEGEND, OR STREET NAME MUST HAVE CAPITAL LETTERS SIX INCHES (6") HIGH AND ALL SECONDARY LEGENDS, INCLUDING THE SUFFIX, BLOCK NUMBERS, MUST HAVE UPPER CASE LETTERS TWO AND ONE-HALF INCHES (2 1/2") HIGH.
11. SUFFIX LETTER SIZE FOR ALL LENGTH MUST BE 2 1/2" CAPITALS, C SERIES, EXCEPT THAT SERIES A OR B WHERE SUFFIX ABBREVIATION EXCEEDS TWO LETTERS BE USED.
12. POSITION OF LEGEND: EACH SIGN FACE WILL CONSIST OF THE STREET NAME, SUFFIX AND TWO ZEROS OF THE BLOCK NUMBER. THE ADDITIONAL NUMBERS OF THE BLOCK NUMBER WILL BE APPLIED BY THE CITY OF SOCORRO. THE SUFFIX WILL BE LOCATED IN THE UPPER RIGHT CORNER AND THE BLOCK NUMBER IN THE LOWER RIGHT CORNER OF THE SIGN FACE AND THE STREET NAME CENTERED IN THE REMAINING SPACE.
13. SIGN FABRICATION: THE SIGN FACE MUST BE FABRICATED BY REVERSE SCREENING GREEN TRANSPARENT COLOR OVER SILVER REFLECTIVE SHEETING. TRANSPARENT PROCESS COLORS MUST BE AS RECOMMENDED BY THE SHEETING MANUFACTURER. CUT-OUT OR APPLIED LEGENDS ARE NOT PERMITTED. SIGN FACE MUST BE COMPRISED OR ONE PIECE OR PANEL OF REFLECTIVE SHEETING.
14. TYPE OF SHEETING: ENGINEER GRADE REFLECTIVE SHEETING MUST BE USED IN THE FABRICATION OF THE STREET NAME SIGN FACES.

SPECIFICATIONS FOR ALUMINUM SIGN BLANKS

THESE SPECIFICATIONS DESCRIBE DETAILS AND MINIMUM REQUIREMENTS FOR ALUMINUM SIGN BLANKS, TO WHICH REFLECTIVE SHEETING WILL BE APPLIED.

1. ALL MATERIALS SHALL BE NEW AND UNWEATHERED AND SHALL BE OF DOMESTIC ORIGIN, MILLED, ROLLED AND FINISHED IN DOMESTIC MILLS.
2. SIGN BLANKS SHALL BE .080 GAUGE ALODIZED TREATED ALUMINUM, 5052-H38 ALLOY FREE OF BURRS, CORROSION, WHITE RUST AND DIRT, SUITABLE FOR APPLICATION OF REFLECTIVE SHEETING WITHOUT FURTHER PREPARATION.
3. EDGES OF BLANKS SHALL BE CUT TRUE AND SQUARE, CORNER RADII, HOLE DIA. AND HOLE LOCATIONS AS DESCRIBED IN THE ALUMINUM SIGN BLANK BID D.H.T. STANDARD.
4. ALL SIGN BLANKS WILL BE TREATED AS FELLOWS:

A. DEGREASING
(1) VAPOR DEGREASING - BY TOTAL IMMERSION OF SIGN BLANK IN A SATURATED VAPOR OF TRICHLORETHYLENE OR PERCHLOROETHYLENE. TRADEMARK PRINTING SHALL BE REMOVE WITH LACQUER THINNER BEFORE DEGREASING.
OR
(2) ALKALINE DEGREASING - BY TOTAL IMMERSION OF THE SIGN BLANK IN A TANK CONTAINING ALKALINE SOLUTIONS, CONTROLLED AND TITRATED TO THE SOLUTION MANUFACTURER'S SPECIFICATION FOR TIME, TEMPERATURE AND CONCENTRATION. IMMERSION TIME SHALL DEPEND UPON THE AMOUNT OF SOIL PRESENT, GAUGE OF THE METAL AND SOLUTION STRENGTH, RINSE THOROUGHLY WITH RUNNING WATER.

B. ETCHING
(1) ACID ETCH - ETCH WELL IN 6-8% PHOSPHORIC ACID SOLUTION AT 100° OF PROPRIETARY ACID ETCHING SOLUTION. RINSE WITH RUNNING WATER.
OR
(2) ALKALINE ETCH - ELTCH WELL THE PRE-CLEANED ALUMINUM SURFACE IN AN ALKALINE ETCHING MATERIAL THAT IS CONTROLLED BY TITRATION. USE TIME, TEMPERATURE, AND CONCENTRATION SPECIFIED BY THE SOLUTION MANUFACTURER. RINSE THOROUGHLY. REMOVE SMUT WITH AN ACIDIC CHROMIUM COMPOUND-TYPE SOLUTION AS SPECIFIED BY THE SOLUTION MANUFACTURER AND THE RINSE.

C. CHROMATE CONVERSION COATING
COAT THE ALUMINUM BLANKS ACCORDING TO THE CHROMATE CONVERSAION COATING MANUFACTURER'S INSTRUCTIONS. THE COATING SHALL CONFORM TO ASTM-B449067, CLASS 2, AND SHALL ROANGE IN COLOR FROM SILVERY IRIDESCENT TO PALE YELLOW. THE COATING WEIGHT SHALL BE GO TO 35 MG PER SQ. FT. WITH A MEDIAN OF 25 MG PER SQ. FT. AS THE OPTIMUM COATING WEIGHT.

Del Rio Engineering, Inc.
P.O. Box 220251 El Paso, Texas 79913 915/833-2400

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ILLUMINATION PLAN DETAILS

FALCON HEIGHTS SUBDIVISION
PARCEL 1: A PORTION O F TRACTS 1D, 2D, 3D AND 4D
FIRST SUPPLEMENTAL MAP OF PARKLAND ADDITION
CITY OF EL PASO, EL PASO COUNTY TX.

Project #: J05-093	Design By: AFJ	
Plot Date: 3/07/07	Drawn By: JM	
SHEET: C-06	Scale: AS NOTED	

600757

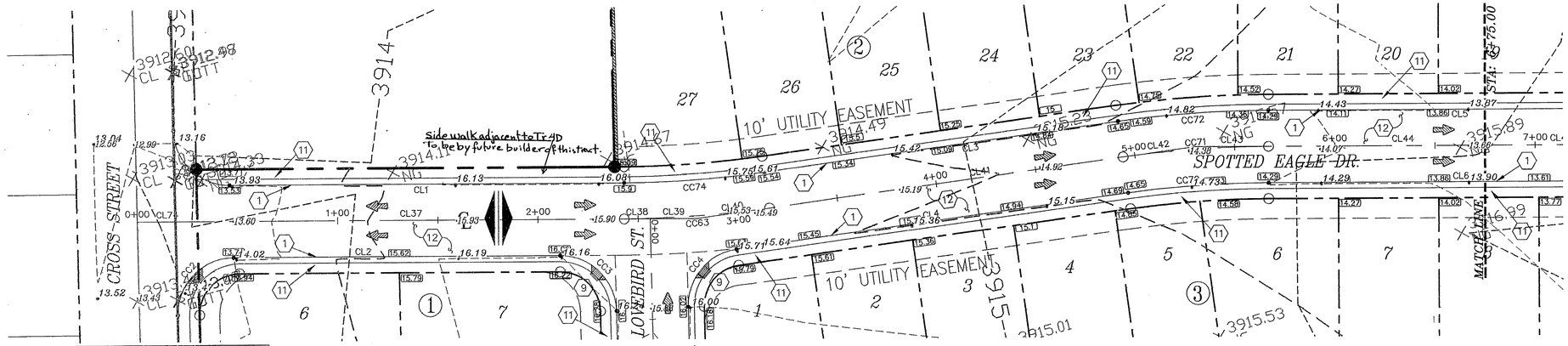
LAYOUT: ILLUMINATION DETAILS

FILE: Z:□J05-WORK DIRECTORY □J05-093 FALCON HEIGHTS SUBDIVISION (QUAIL SUB) □dwg□As-Builts CIVIL 110705□J05-093 C06-ILLUMINATION DETAILS.dwg

LAYOUT: C-07 SPOTTED EAGLE DR. STATION 0+00 THRU 6+75.00

TRENCH EXCAVATION PROTECTION

CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR STRUCTURAL DESIGN/ GEOTECHNICAL/ SAFETY/ EQUIPMENT CONSULTANT, IF ANY, SHALL REVIEW THESE PLANS AND AVAILABLE GEOTECHNICAL INFORMATION AND THE ANTICIPATED INSTALLATION SITE(S) WITHIN THE PROJECT WORK AREA IN ORDER TO IMPLEMENT CONTRACTOR'S TRENCH EXCAVATION SAFETY PROTECTION SYSTEMS, PROGRAMS AND/OR PROCEDURES. THE CONTRACTOR'S IMPLANTATION OF THE SYSTEMS, PROGRAMS AND/OR PROCEDURES SHALL PROVIDE FOR ADEQUATE TRENCH EXCAVATION. SAFETY PROTECTION THAT COMPLIES WITH AS A MINIMUM, OSHA STANDARDS FOR TRENCH EXCAVATIONS. SPECIFICALLY, CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR SAFETY CONSULTANT SHALL IMPLEMENT A TRENCH SAFETY PROGRAM IN ACCORDANCE WITH OSHA STANDARDS GOVERNING THE PRESENCE AND ACTIVITIES OF INDIVIDUALS WORKING IN AND AROUND TRENCH EXCAVATION.



CURB LINE TABLE		
LINE	BEARING	DISTANCE
CL1	S86°43'58"E	196.92'
CL2	N86°43'58"W	162.99'
CL3	N85°20'03"E	178.28'
CL4	S85°20'03"W	197.53'
CL5	N86°43'58"W	169.79'
CL6	N86°43'58"W	169.79'
CL37	S86°43'58"E	213.02'
CL38	S87°26'32"E	13.02'
CL39	S86°20'20"E	23.45'
CL40	N85°20'03"E	36.47'
CL41	N85°20'03"E	178.28'
CL42	N85°20'03"E	36.47'
CL43	S86°43'58"E	36.47'
CL44	S86°43'58"E	215.79'

CURB CURVE TABLE					
CURVE	DELTA	RADIUS	ARC	CHORD BEARING	CHORD
CC1	88°54'29"	28'	43.45'	S42°16'43"E	39.22'
CC2	90°57'52"	28'	44.45'	S47°47'06"W	39.93'
CC3	88°52'30"	28'	43.43'	N42°17'43"W	39.21'
CC4	83°11'31"	28'	40.66'	S43°44'18"W	37.18'
CC63	07°55'59"	526'	72.83'	N89°18'03"E	72.77'
CC70	07°55'59"	508'	70.34'	S89°18'03"W	70.28'
CC71	07°55'59"	526'	72.83'	S89°18'03"W	72.77'
CC72	07°55'59"	544'	75.32'	S89°18'03"W	75.26'
CC74	07°55'59"	508'	70.34'	N89°18'03"E	70.28'

PLAN VIEW

SCALE: 1"=30'

0 30' 60' 90'
0 1" 2" 3"

NOTES:

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BY: _____

DATE: 3/8/07

KEYNOTE LEGEND

1. PROPOSED TOP OF CURB (6" STANDARD CURB AND GUTTER) SEE TYP. DETAILS
2. PROPOSED GUTTER LINE (6" STANDARD CURB AND GUTTER) SEE TYP. DETAILS
3. EXISTING GRADE LINE
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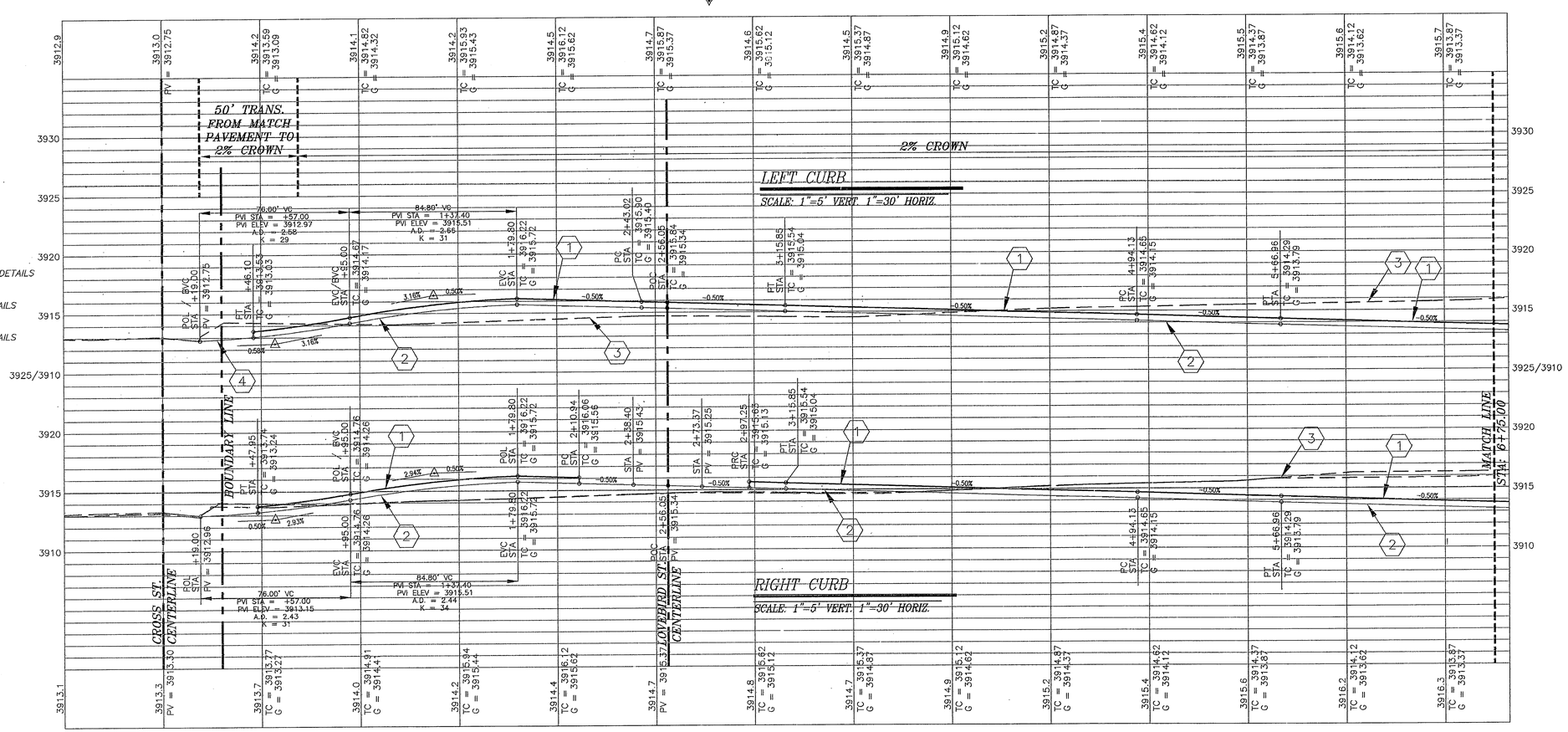
9. PROPOSED HANDICAP RAMP SEE TYP. DETAILS
10. 4' SIDEWALK SEE TYP. DETAILS
11. 5' SIDEWALK SEE TYP. DETAILS
12. TYPICAL PAVEMENT SECTION SEE TYP. DETAILS
13. 50' TRANSITION FROM 2% CROWN TO MATCH PAVEMENT
14. 6' ROCK SCREENWALL BY DEVELOPER (SEE TYP. DETAILS)
15. 18' WIDE CHAINLINK GATE (SEE TYP. DETAILS)

47.45 PROPOSED TOP OF CURB @ PC,PT (FG @ BACK OF SIDEWALK)

46.87 PV PROPOSED TOP OF PAVEMENT

BENCHMARK:
CITY MONUMENT AT INTERSECTION OF WOLVERINE AND DEER.
ELEVATION: 3909.26 (CITY DATUM)
(ADD 8.462 TO CONVERT TO NVGD)



Release Dates:

Revisions:

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3/8/07
STATE OF TEXAS
S.B. MASOUD
70774
REGISTERED PROFESSIONAL ENGINEER

Del Rio Engineering, Inc.
P.O. Box 220251 El Paso, Texas 79913 915/833-2400

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SPOTTED EAGLE DR. STATION 0+00 THRU 6+75.00

FALCON HEIGHTS SUBDIVISION

PARCEL 1: A PORTION O F TRACTS 1D, 2D, 3D AND 4D
FIRST SUPPLEMENTAL MAP OF PARKLAND ADDITION
CITY OF EL PASO, EL PASO COUNTY TX.

Project #: J05-093	Design By: AFJ
Plot Date: 3/07/07	Drawn By: JM
SHEET: C-07	Scale: 1" = 30'

600757

FILE: Z:\J05-WORK DIRECTORY\J05-093 FALCON HEIGHTS SUBDIVISION (QUALI. SUB)\Dwgs\AsBuilts CIVIL\110705\J05-093 C07-SPOTTED EAGLE.dwg

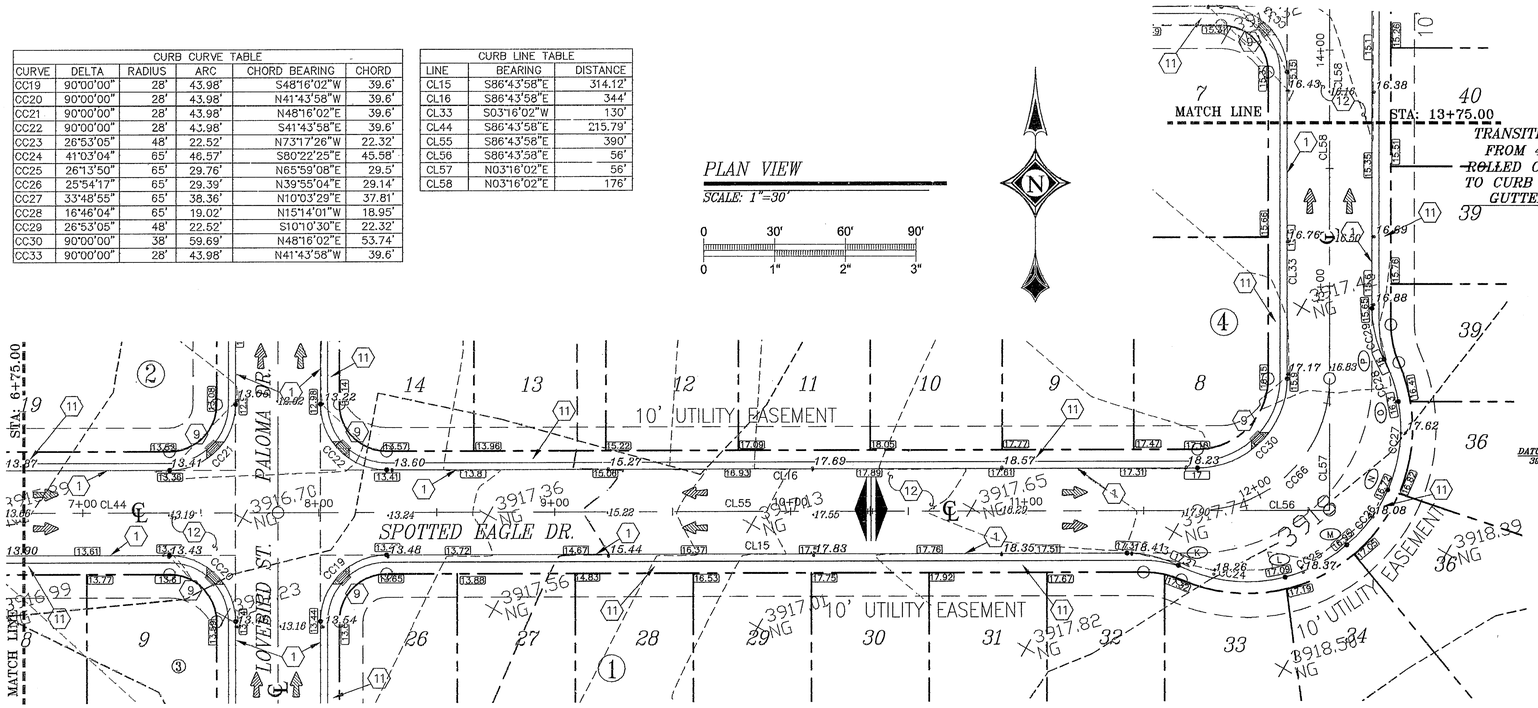
LAYOUT: C-08 SPOTTED EAGLE DR. STATION 6+75.00 THRU 13+75.00

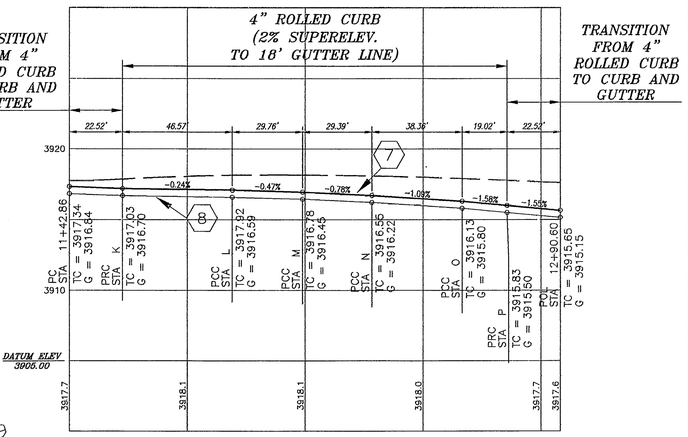
CURB CURVE TABLE					
CURVE	DELTA	RADIUS	ARC	CHORD BEARING	CHORD
CC19	90°00'00"	28'	43.98'	S48°16'02"W	39.6'
CC20	90°00'00"	28'	43.98'	N41°43'58"W	39.6'
CC21	90°00'00"	28'	43.98'	N48°16'02"E	39.6'
CC22	90°00'00"	28'	43.98'	S41°43'58"E	39.6'
CC23	26°53'05"	48'	22.52'	N73°17'26"W	22.32'
CC24	41°03'04"	65'	46.57'	S80°22'25"E	45.58'
CC25	26°13'50"	65'	29.76'	N65°59'08"E	29.5'
CC26	25°54'17"	65'	29.39'	N39°55'04"E	29.14'
CC27	33°48'55"	65'	38.36'	N10°03'29"E	37.81'
CC28	16°46'04"	65'	19.02'	N15°14'01"W	18.95'
CC29	26°53'05"	48'	22.52'	S10°10'30"E	22.32'
CC30	90°00'00"	38'	59.69'	N48°16'02"E	53.74'
CC33	90°00'00"	28'	43.98'	N41°43'58"W	39.6'

CURB LINE TABLE		
LINE	BEARING	DISTANCE
CL15	S86°43'58"E	314.12'
CL16	S86°43'58"E	344'
CL33	S03°16'02"W	130'
CL44	S86°43'58"E	215.79'
CL55	S86°43'58"E	390'
CL56	S86°43'58"E	56'
CL57	N03°16'02"E	56'
CL58	N03°16'02"E	176'

PLAN VIEW

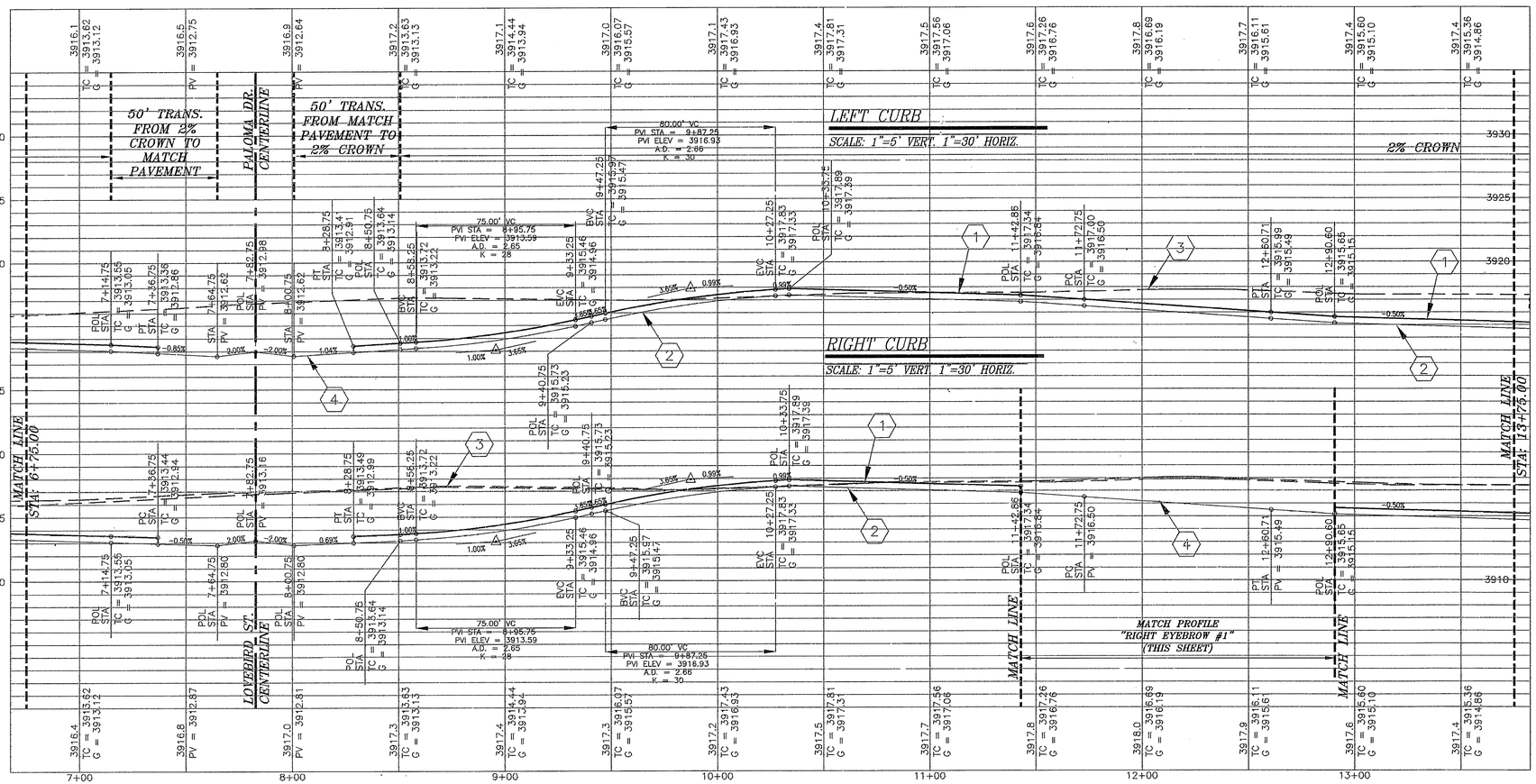
SCALE: 1"=30'





RIGHT EYEBROW #1

MATCH FROM STA: 11+42.86 TO 12+90.60
SCALE: 1"=5' VERT. 1"=30' HORIZ.



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BY: _____

DATE: 3/8/07

KEYNOTE LEGEND

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14. 6' ROCK SCREENWALL BY DEVELOPER (SEE TYP. DETAILS)
15. 18' WIDE CHAINLINK GATE (SEE TYP. DETAILS)

47.45 PROPOSED TOP OF CURB @ PC,PT (FG @ BACK OF SIDEWALK)

46.62 PV × PROPOSED TOP OF PAVEMENT

BENCHMARK:
CITY MONUMENT AT INTERSECTION OF WOLVERINE AND DEER.
ELEVATION: 3909.26 (CITY DATUM)
(ADD 8.462 TO CONVERT TO NVGD)

Release Dates:

Revisions:

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3/8/07 STATE OF TEXAS S.B. MASOUD 70774 PROFESSIONAL ENGINEER

Del Rio Engineering, Inc.
P.O. Box 220251 El Paso, Texas 79913 915/833-2400

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SPOTTED EAGLE DR. STATION 6+75.00 THRU 13+75.00

FALCON HEIGHTS SUBDIVISION

PARCEL 1: A PORTION O F TRACTS 1D, 2D, 3D AND 4D
FIRST SUPPLEMENTAL MAP OF PARKLAND ADDITION
CITY OF EL PASO, EL PASO COUNTY TX.

Project #: J05-093	Design By: AFJ	
Plot Date: 3/07/07	Drawn By: JM	
SHEET: C-08	Scale: 1" = 30'	

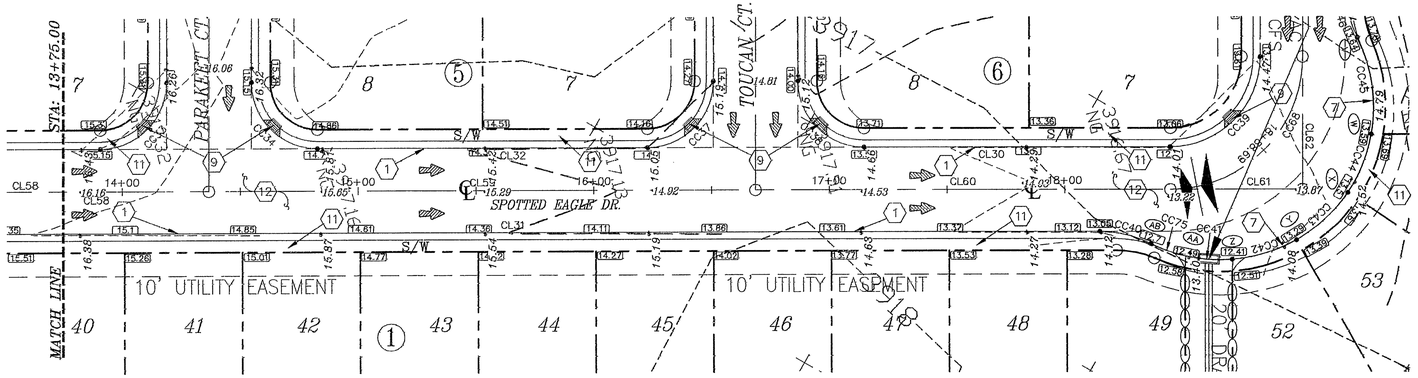
FILE: Z:□J05-WORK DIRECTORY□J05-093 FALCON HEIGHTS SUBDIVISION (QUAIL SUB)□dwgs□AsBuilts CIVIL 110705□J05-093 C08-SPOTTED EAGLE.dwg

600757

LAYOUT: C-09 SPOTTED EAGLE DR. STATION 13+75.00 THRU 18+88.69

TRENCH EXCAVATION PROTECTION

CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEER OR STRUCTURAL DESIGN/ GEOTECHNICAL/ SAFETY/ EQUIPMENT CONSULTANT, IF ANY, SHALL REVIEW THESE PLANS AND AVAILABLE GEOTECHNICAL INFORMATION AND THE ANTICIPATED INSTALLATION SITE(S) WITHIN THE PROJECT WORK AREA IN ORDER TO IMPLEMENT CONTRACTOR'S TRENCH EXCAVATION SAFETY PROTECTION SYSTEMS, PROGRAMS AND/OR PROCEDURES. THE CONTRACTOR'S IMPLANTATION OF THE SYSTEMS, PROGRAMS AND/OR PROCEDURES SHALL PROVIDE FOR ADEQUATE TRENCH EXCAVATION, SAFETY PROTECTION THAT COMPLIES WITH AS A MINIMUM, OSHA STANDARDS FOR TRENCH EXCAVATIONS. SPECIFICALLY, CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEER OR SAFETY CONSULTANT SHALL IMPLEMENT A TRENCH SAFETY PROGRAM IN ACCORDANCE WITH OSHA STANDARDS GOVERNING THE PRESENCE AND ACTIVITIES OF INDIVIDUALS WORKING IN AND AROUND TRENCH EXCAVATION.



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BY: _____

DATE: 3/8/07

Release Dates:

Revisions:

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3/8/07 STATE OF TEXAS S.B. MASOUD 70774 REGISTERED PROFESSIONAL ENGINEER

KEYNOTE LEGEND

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46.87 PV PROPOSED TOP OF PAVEMENT

BENCHMARK:
CITY MONUMENT AT INTERSECTION OF WOLVERINE AND DEER.
ELEVATION: 3909.26 (CITY DATUM)
(ADD 8.462 TO CONVERT TO NVGD)

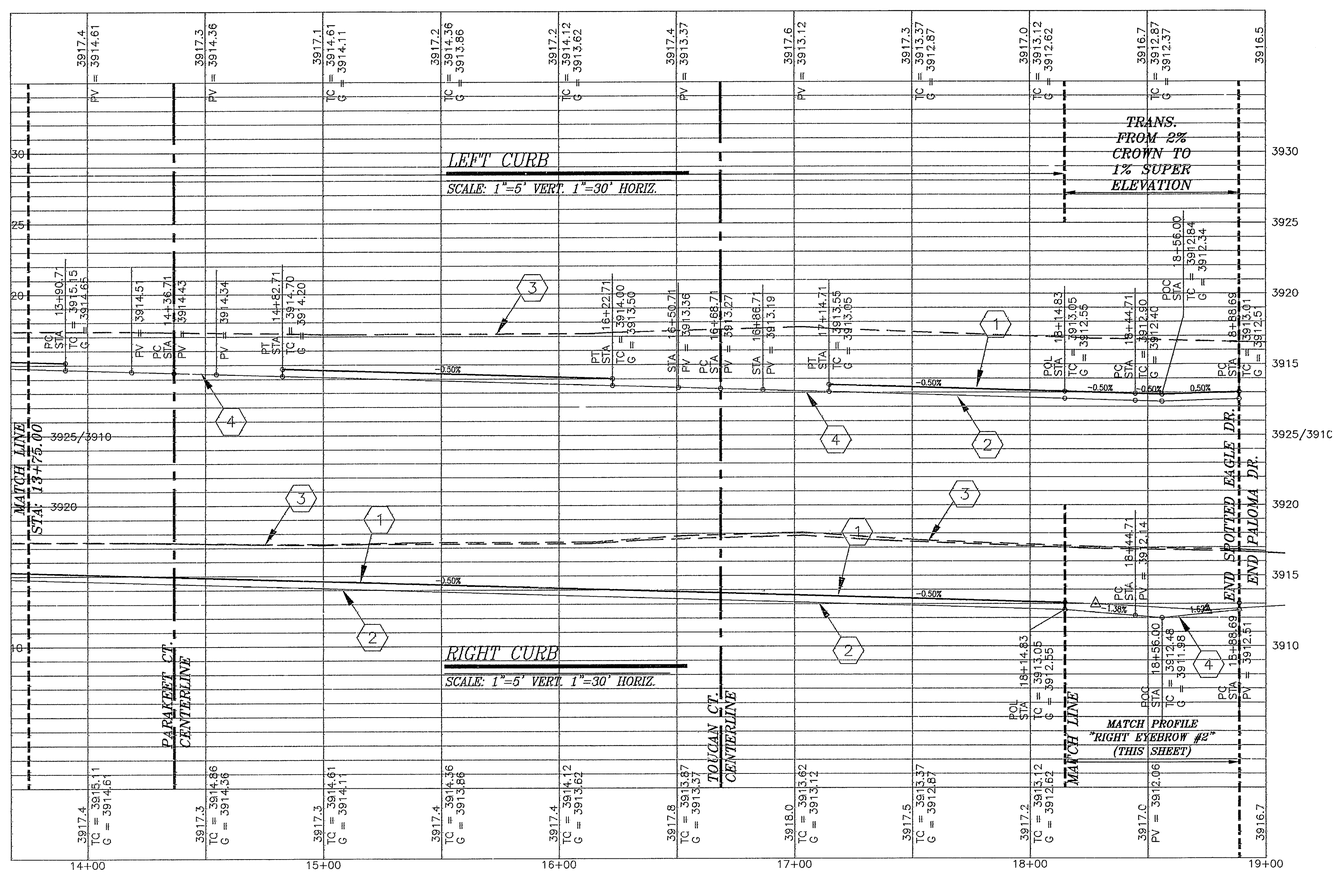
PLAN VIEW

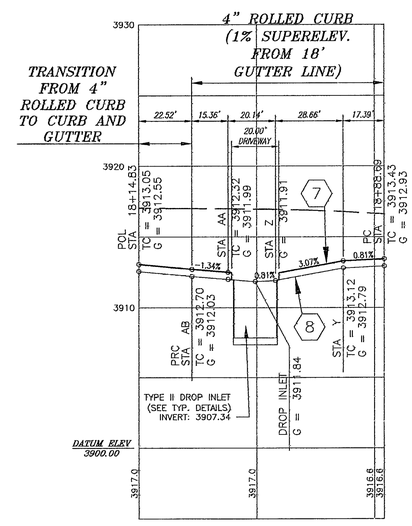
SCALE: 1"=30'

0 30' 60' 90'
0 1" 2" 3"

CURB LINE TABLE		
LINE	BEARING	DISTANCE
CL30	N03°16'02"E	130'
CL31	S03°16'02"W	524.23'
CL32	N03°16'02"E	140'
CL59	N03°16'02"E	232'
CL60	N03°16'02"E	176'
CL61	N03°16'02"E	56'
CL62	N86°43'58"W	56'
CL68	S03°16'02"W	56'

CURB CURVE TABLE					
CURVE	DELTA	RADIUS	ARC	CHORD BEARING	CHORD
CC33	90°00'00"	28'	43.98'	N41°43'58"W	39.6'
CC34	90°00'00"	28'	43.98'	N48°16'02"E	39.6'
CC37	90°00'00"	28'	43.98'	N41°43'58"W	39.6'
CC38	90°00'00"	28'	43.98'	N48°16'02"E	39.6'
CC39	90°00'00"	38'	59.69'	N41°43'58"W	53.74'
CC40	26°53'05"	48'	22.52'	S16°42'34"W	22.32'
CC41	17°45'15"	65'	20.14'	N07°44'25"E	20.06'
CC42	25°16'05"	65'	28.67'	N13°46'15"W	28.43'
CC43	26°29'34"	65'	30.06'	N39°39'04"W	29.79'
CC44	23°38'34"	65'	26.82'	N64°43'08"W	26.63'
CC45	37°04'37"	65'	42.06'	S84°55'16"W	41.33'
CC75	13°32'04"	65'	15.35'	N23°23'05"E	15.32'





RIGHT EYEBROW #2

MATCH FROM STA: 18+14.83 TO 18+88.69
SCALE: 1"=5' VERT. 1"=30' HORIZ.

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SPOTTED EAGLE DR. STATION 13+75.00 THRU 18+88.69

FALCON HEIGHTS SUBDIVISION

PARCEL 1: A PORTION O F TRACTS 1D, 2D, 3D AND 4D
FIRST SUPPLEMENTAL MAP OF PARKLAND ADDITION
CITY OF EL PASO, EL PASO COUNTY TX.

Project #: J05-093	Design By: AFJ
Plot Date: 3/07/07	Drawn By: JM
SHEET: C-09	Scale: 1" = 30'

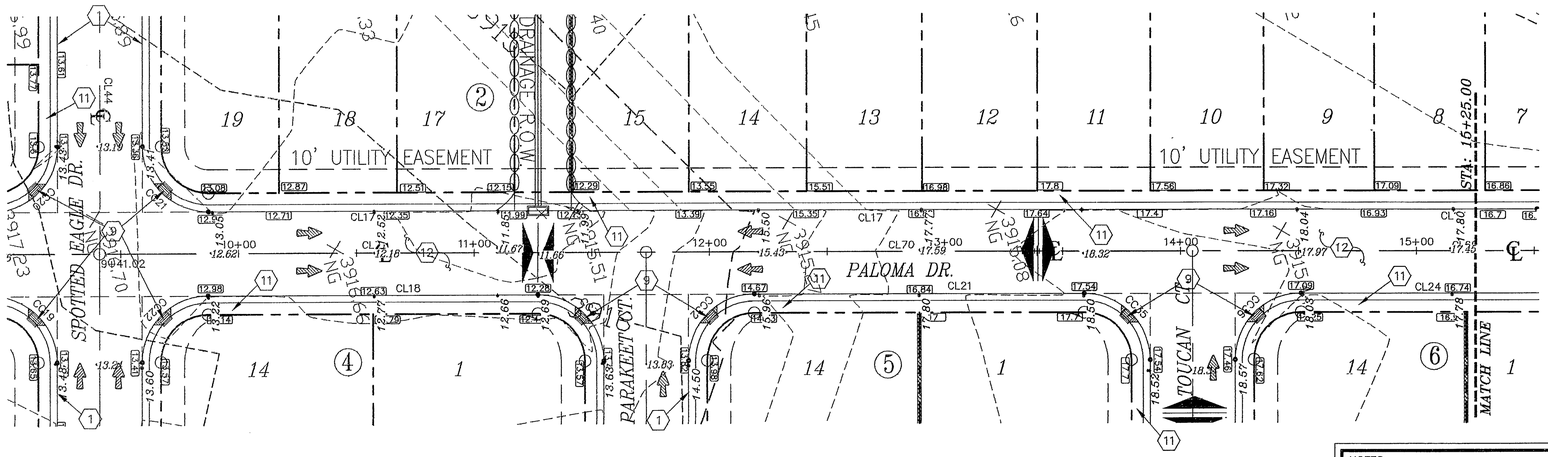
FILE: Z:\J05-WORK DIRECTORY\J05-093 FALCON HEIGHTS SUBDIVISION (QUAIL SUB)\dwg\AsBuilts CIVIL 110705\J05-093 C09-SPOTTED EAGLE.dwg

600757

LAYOUT: C-10 PALOMA DR. STATION 9+41.02 THRU 15+25.00

TRENCH EXCAVATION PROTECTION

CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR STRUCTURAL DESIGN/ GEOTECHNICAL/ SAFETY/ EQUIPMENT CONSULTANT, IF ANY, SHALL REVIEW THESE PLANS AND AVAILABLE GEOTECHNICAL INFORMATION AND THE ANTICIPATED INSTALLATION SITE(S) WITHIN THE PROJECT WORK AREA IN ORDER TO IMPLEMENT CONTRACTOR'S TRENCH EXCAVATION SAFETY PROTECTION SYSTEMS, PROGRAMS AND/OR PROCEDURES. THE CONTRACTOR'S IMPLANTATION OF THE SYSTEMS, PROGRAMS AND/OR PROCEDURES SHALL PROVIDE FOR ADEQUATE TRENCH EXCAVATION, SAFETY PROTECTION THAT COMPLIES WITH AS A MINIMUM, OSHA STANDARDS FOR TRENCH EXCAVATIONS. SPECIFICALLY, CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR SAFETY CONSULTANT SHALL IMPLEMENT A TRENCH SAFETY PROGRAM IN ACCORDANCE WITH OSHA STANDARDS GOVERNING THE PRESENCE AND ACTIVITIES OF INDIVIDUALS WORKING IN AND AROUND TRENCH EXCAVATION.



CURB CURVE TABLE					
CURVE	DELTA	RADIUS	ARC	CHORD BEARING	CHORD
CC21	90°00'00"	28'	43.98'	N48°16'02"E	39.6'
CC22	90°00'00"	28'	43.98'	S41°43'58"E	39.6'
CC31	90°00'00"	28'	43.98'	S48°16'02"W	39.6'
CC32	90°00'00"	28'	43.98'	S41°43'58"E	39.6'
CC35	90°00'00"	28'	43.98'	S48°16'02"W	39.6'
CC36	90°00'00"	28'	43.98'	S41°43'58"E	39.6'

PLAN VIEW

SCALE: 1"=30'

0 30' 60' 90'

0 1" 2" 3"

CURB LINE TABLE		
LINE	BEARING	DISTANCE
CL17	N03°16'02"E	564.12'
CL18	N03°16'02"E	140'
CL21	S03°16'02"W	140'
CL24	S03°16'02"W	130'
CL69	S03°16'02"W	176'
CL70	S03°16'02"W	232'
CL71	S03°16'02"W	232'

NOTES:

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BY: _____

DATE: 3/8/07

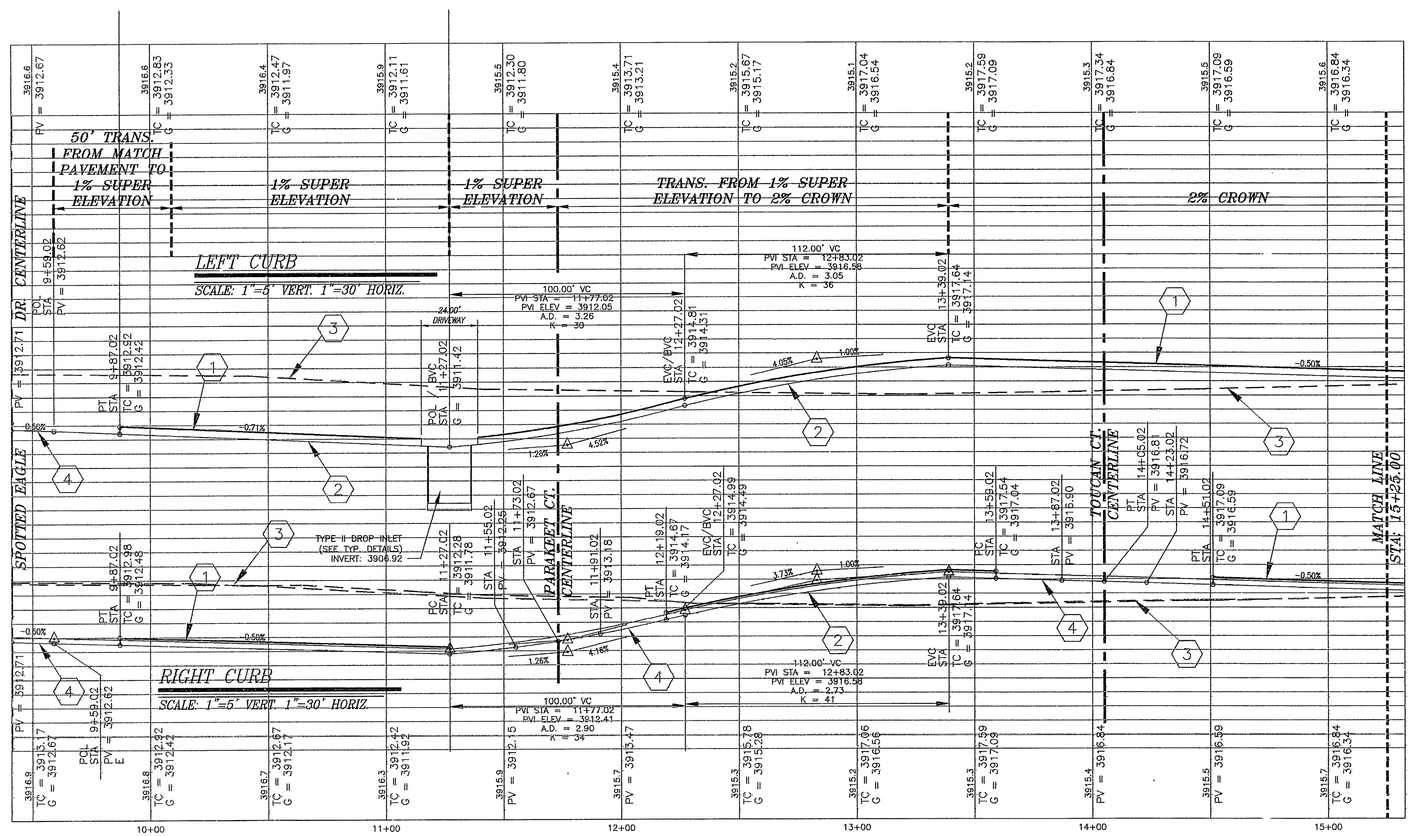
KEYNOTE LEGEND

1. PROPOSED TOP OF CURB (6" STANDARD CURB AND GUTTER) SEE TYP. DETAILS
2. PROPOSED GUTTER LINE (6" STANDARD CURB AND GUTTER) SEE TYP. DETAILS
3. EXISTING GRADE LINE
4. PROPOSED TOP OF PAVEMENT SEE TYP. DETAILS
5. PROPOSED TEMPORARY EARTHEN BERM SEE TYP. DETAILS
6. PROPOSED TYPE I CURB AND GRATE INLET (# DENOTES NUMBER OF GRATES) SEE TYP. DETAILS
7. PROPOSED TOP OF CURB (4" STANDARD ROLLED CURB) SEE TYP. DETAILS
8. PROPOSED GUTTER LINE (4" STANDARD ROLLED CURB) SEE TYP. DETAILS
9. PROPOSED HANDICAP RAMP SEE TYP. DETAILS
10. 4' SIDEWALK SEE TYP. DETAILS
11. 5' SIDEWALK SEE TYP. DETAILS
12. TYPICAL PAVEMENT SECTION SEE TYP. DETAILS
13. 50' TRANSITION FROM 2% CROWN TO MATCH PAVEMENT
14. 6' ROCK SCREENWALL BY DEVELOPER (SEE TYP. DETAILS)
15. 18' WIDE CHAINLINK GATE (SEE TYP. DETAILS)

47.49 PROPOSED TOP OF CURB @ PC,PT (FG @ BACK OF SIDEWALK)

48.87 PV — PROPOSED TOP OF PAVEMENT

BENCHMARK: CITY MONUMENT AT INTERSECTION OF WOLVERINE AND DEER. ELEVATION: 3909.26 (CITY DATUM) (ADD 8.462 TO CONVERT TO NVGD)



Release Dates:

Revisions:

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3/8/07 STATE OF TEXAS S.B. MASOUD 70774 REGISTERED PROFESSIONAL ENGINEER

Del Rio Engineering, Inc.
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PALOMA DR. STATION 9+41.02 THRU 15+25.00

FALCON HEIGHTS SUBDIVISION

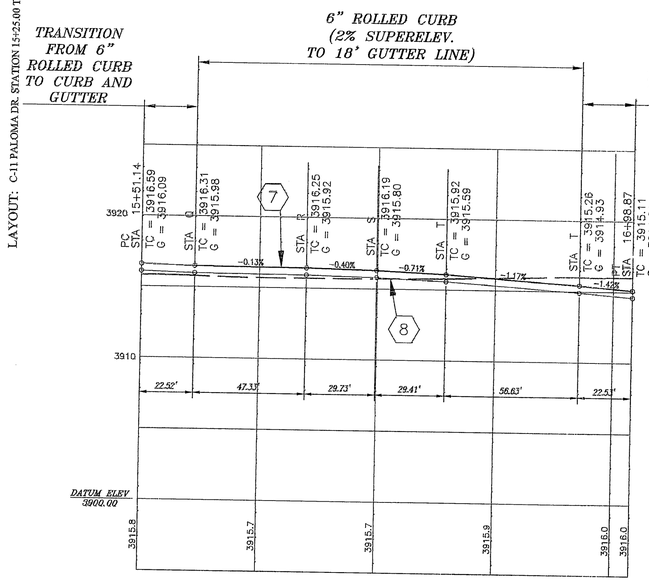
PARCEL 1: A PORTION O F TRACTS 1D, 2D, 3D AND 4D
FIRST SUPPLEMENTAL MAP OF PARKLAND ADDITION
CITY OF EL PASO, EL PASO COUNTY TX.

Project #: J05-093	Design By: AFJ
Plot Date: 3/07/07	Drawn By: JM
SHEET: C-10	Scale: 1" = 30'

600757

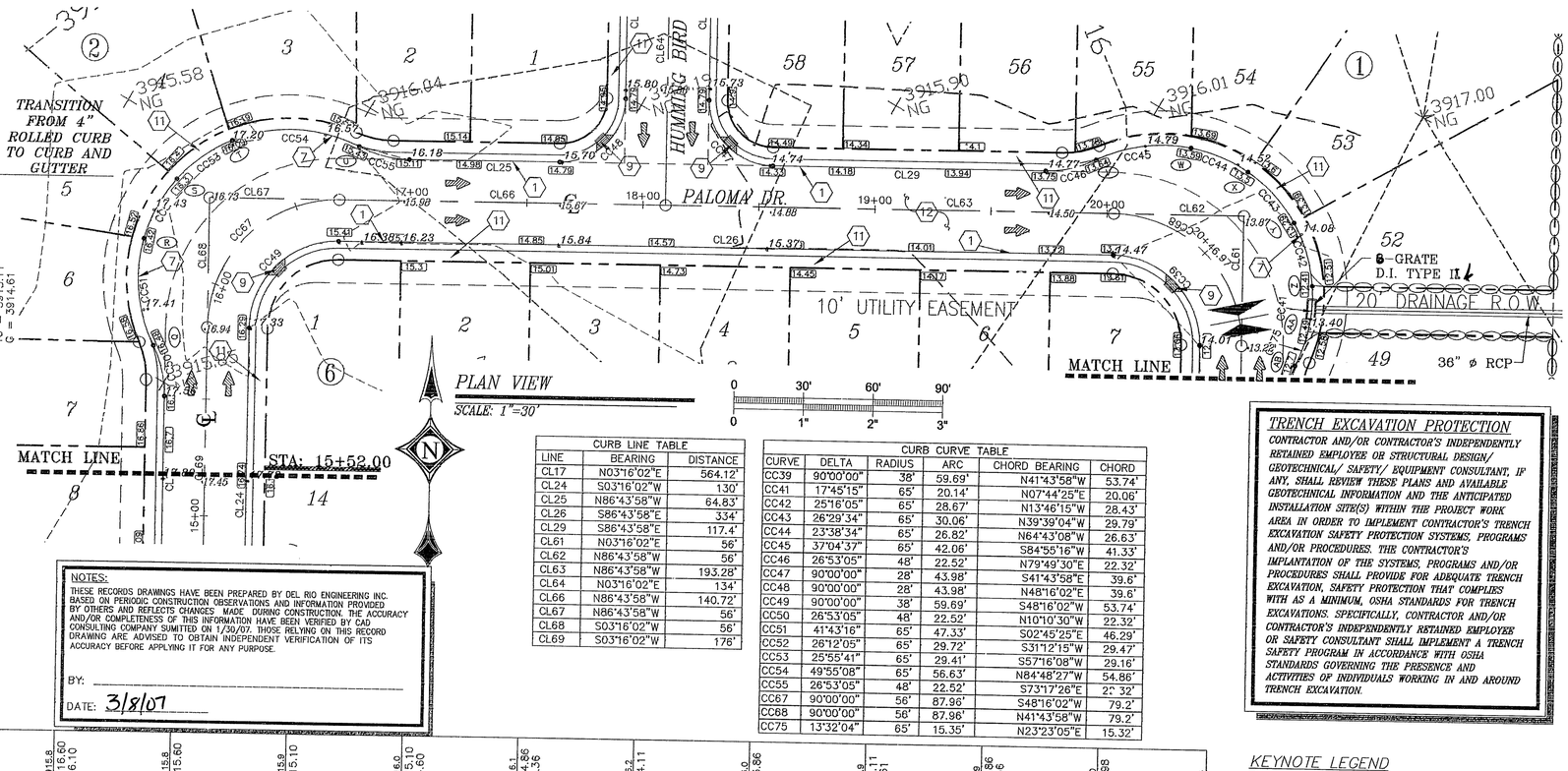
FILE: Z:\J05-WORK DIRECTORY\J05-093 FALCON HEIGHTS SUBDIVISION (QUAIL SUB)\dwg\As-Builts CIVIL 110705\J05-093 C10-PALOMA DR.dwg

LAYOUT: C-11 PALOMA DR. STATION 15+25.00 THRU 20+46.97



LEFT EYEBROW #1

MATCH FROM STA: 15+51.14 TO 16+98.87
SCALE: 1"=5' VERT. 1"=30' HORIZ.



PLAN VIEW

SCALE: 1"=30'

CURB LINE TABLE		
LINE	BEARING	DISTANCE
CL17	N03°16'02"E	564.12'
CL24	S03°16'02"W	130'
CL25	N86°43'58"W	64.83'
CL26	S86°43'58"E	334'
CL29	S86°43'58"E	117.4'
CL61	N03°16'02"E	56'
CL62	N86°43'58"W	56'
CL63	N86°43'58"W	193.28'
CL64	N03°16'02"E	134'
CL66	N86°43'58"W	140.72'
CL67	N86°43'58"W	56'
CL68	S03°16'02"W	56'
CL69	S03°16'02"W	176'

CURB CURVE TABLE					
CURVE	DELTA	RADIUS	ARC	CHORD BEARING	CHORD
CC39	90°00'00"	38'	59.69'	N41°43'58"W	53.74'
CC41	17°45'15"	65'	20.14'	N07°44'25"E	20.06'
CC42	25°16'05"	65'	28.67'	N13°46'15"W	28.43'
CC43	26°29'34"	65'	30.06'	N39°39'04"W	29.79'
CC44	23°38'34"	65'	26.82'	N64°43'08"W	26.63'
CC45	37°04'37"	65'	42.06'	S84°55'16"W	41.33'
CC46	26°53'05"	48'	22.52'	N79°49'30"E	22.32'
CC47	90°00'00"	28'	43.98'	S41°43'58"E	39.6'
CC48	90°00'00"	28'	43.98'	N48°16'02"E	39.6'
CC49	90°00'00"	38'	59.69'	S48°16'02"W	53.74'
CC50	26°53'05"	48'	22.52'	N10°10'30"W	22.32'
CC51	41°43'16"	65'	47.33'	S02°45'25"E	46.29'
CC52	26°12'05"	65'	29.72'	S31°12'15"W	29.47'
CC53	25°55'41"	65'	29.41'	S57°16'08"W	29.16'
CC54	49°55'08"	65'	56.63'	N84°48'27"W	54.86'
CC55	26°53'05"	48'	22.52'	S73°17'26"E	2° 32'
CC67	90°00'00"	56'	87.96'	S48°16'02"W	79.2'
CC68	90°00'00"	56'	87.96'	N41°43'58"W	79.2'
CC75	13°32'04"	65'	15.35'	N23°23'05"E	15.32'

NOTES:

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BY: _____

DATE: 3/8/07

TRENCH EXCAVATION PROTECTION

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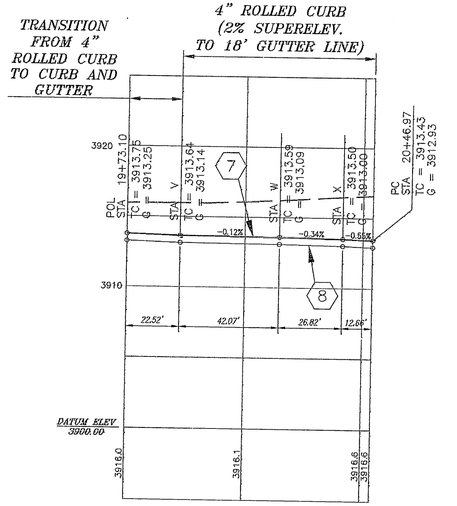
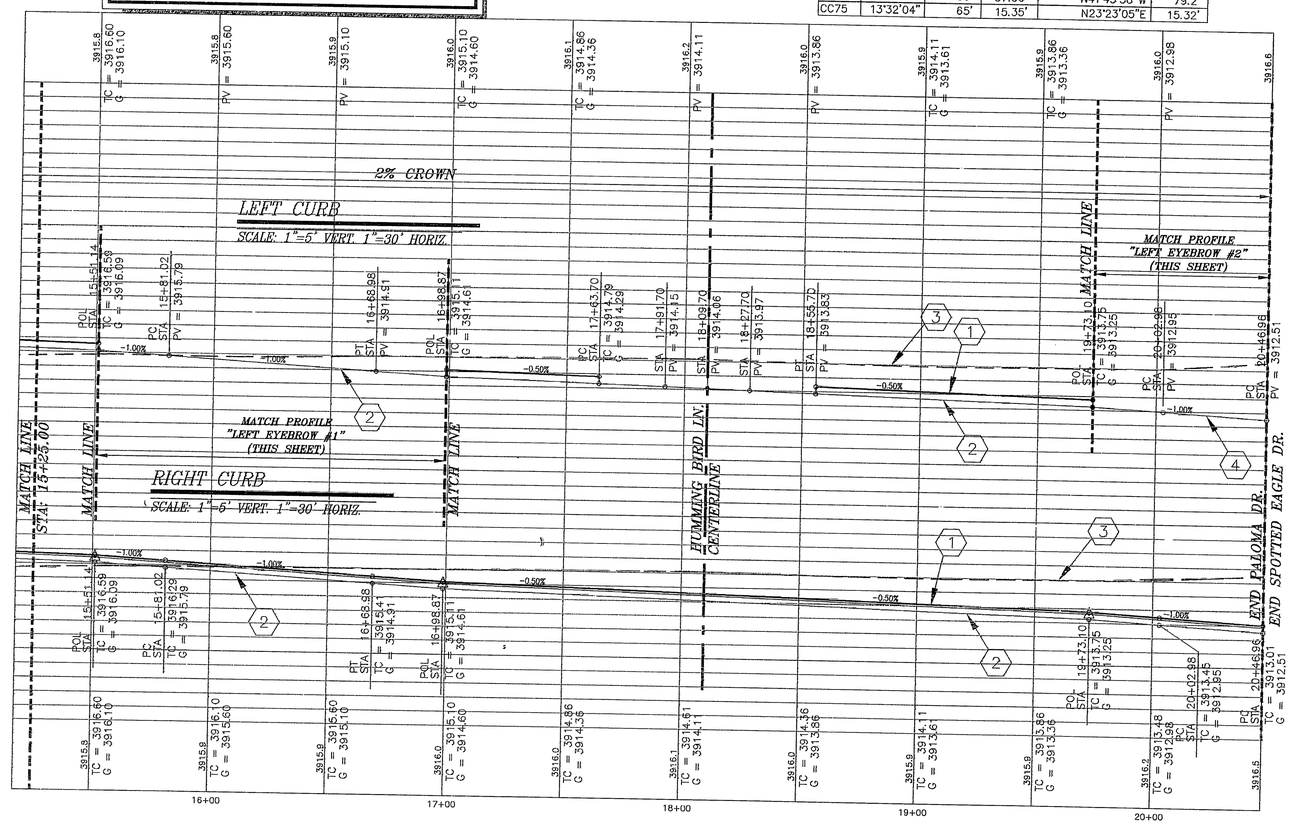


LEFT EYEBROW #1

MATCH FROM STA: 19+73.10 TO 20+46.97
SCALE: 1"=5' VERT. 1"=30' HORIZ.



KEYNOTE LEGEND

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10. 4' SIDEWALK SEE TYP. DETAILS
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12. TYPICAL PAVEMENT SECTION SEE TYP. DETAILS
13. 50' TRANSITION FROM 2% CROWN TO MATCH PAVEMENT
14. 6' ROCK SCREENWALL BY DEVELOPER (SEE TYP. DETAILS)
15. 18' WIDE CHAINLINK GATE (SEE TYP. DETAILS)

47.45 PROPOSED TOP OF CURB @ PC,PT (FG @ BACK OF SIDEWALK)

46.67 BV PROPOSED TOP OF PAVEMENT

BENCHMARK:
CITY MONUMENT AT INTERSECTION OF WOLVERINE AND DEER.
ELEVATION: 3909.26 (CITY DATUM)
(ADD 8.462 TO CONVERT TO NVGD)

Release Dates:

Revisions:

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PALOMA DR. STATION 15+25.00 THRU 20+46.97

FALCON HEIGHTS SUBDIVISION

PARCEL 1: A PORTION OF TRACTS 1D, 2D, 3D AND 4D
FIRST SUPPLEMENTAL MAP OF PARKLAND ADDITION
CITY OF EL PASO, EL PASO COUNTY TX.

Project #: J05-093	Design By: AFJ
Plot Date: 3/07/07	Drawn By: JM
SHEET: C-11	Scale: 1" = 30'

FILE: Z:□J05-WORK DIRECTORY□J05-093 FALCON HEIGHTS SUBDIVISION (QUAIL SUB) (Dwg□AssBuilts CIVIL 110705□J05-093 C11-PALOMA DR.dwg

600757

LAYOUT: C-12 LOVEBIRD LN. STATION 0+00 THRU 4+25.00

FILE: Z:\J05-WORK DIRECTORY\J05-093 FALCON HEIGHTS SUBDIVISION (QUAIL SUB)\dwg\CAsBuilts CIVIL 110705\J05-093 C12-LOVEBIRD LN.dwg

TRENCH EXCAVATION PROTECTION

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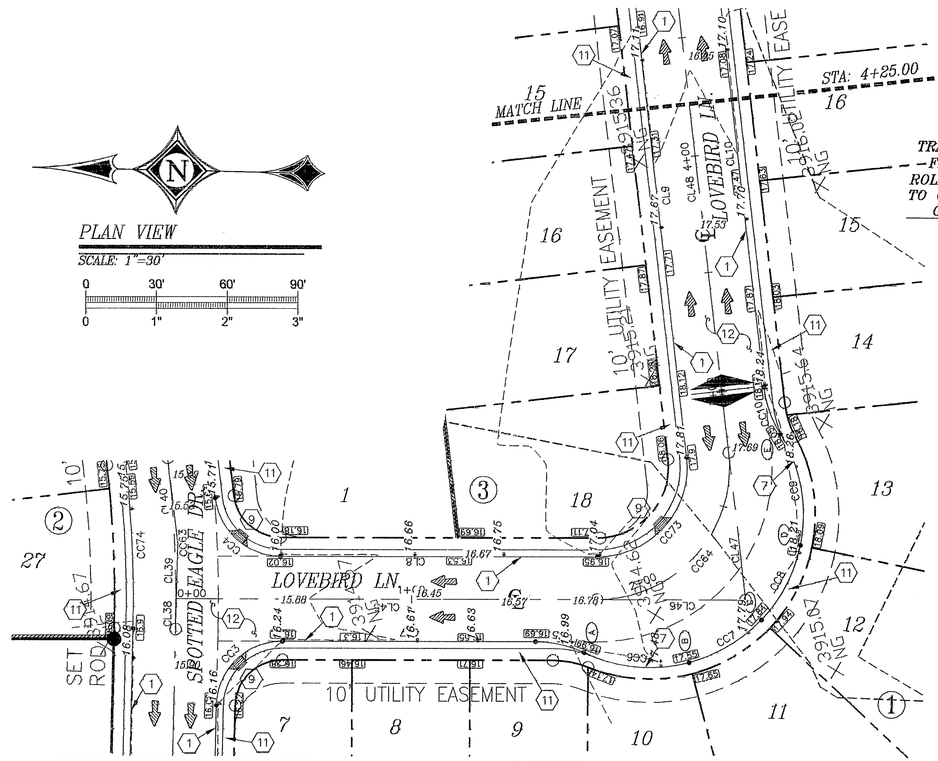
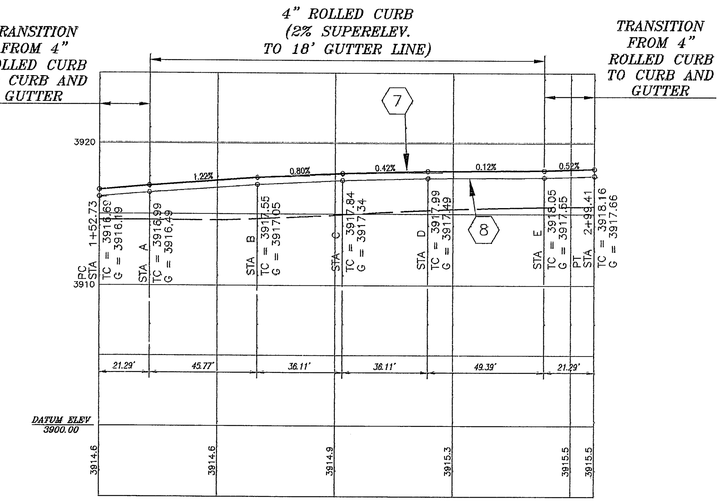
12. TYPICAL PAVEMENT SECTION SEE TYP. DETAILS
13. 50' TRANSITION FROM 2% CROWN TO MATCH PAVEMENT
14. 6' ROCK SCREENWALL BY DEVELOPER (SEE TYP. DETAILS)
15. 18' WIDE CHAINLINK GATE (SEE TYP. DETAILS)

47.43 PROPOSED TOP OF CURB @ PC,PT (FG @ BACK OF SIDEWALK)

46.67 BV PROPOSED TOP OF PAVEMENT

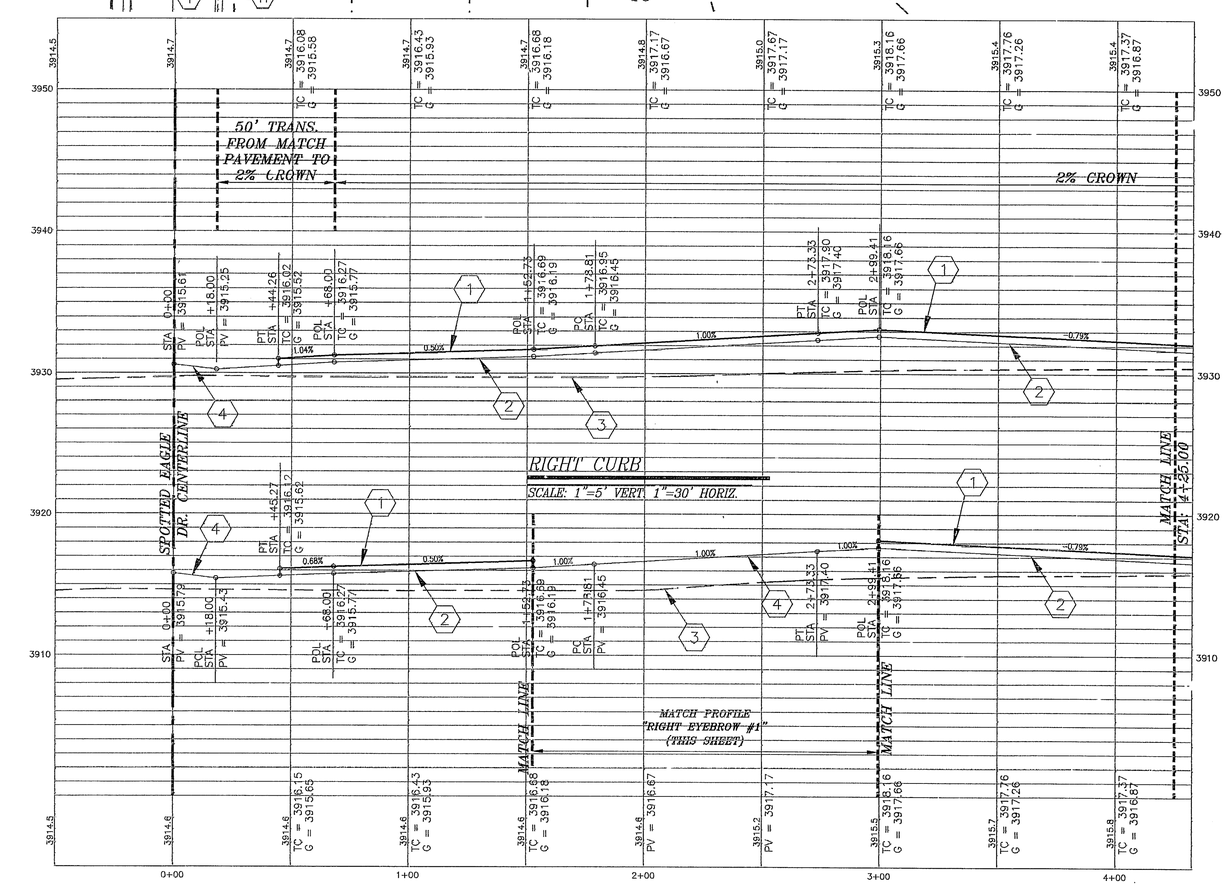
BENCHMARK:
CITY MONUMENT AT INTERSECTION OF WOLVERINE AND DEER.
ELEVATION: 3909.26 (CITY DATUM)
(ADD 8.462 TO CONVERT TO NVGD)





RIGHT EYEBROW #1

MATCH FROM STA: 1+52.73 TO 2+99.41
SCALE: 1"=5' VERT. 1"=30' HORIZ.



CURB CURVE TABLE					
CURVE	DELTA	RADIUS	ARC	CHORD BEARING	CHORD
CC3	88°52'30"	28'	43.43'	N42°17'43"W	39.21'
CC4	83°11'31"	28'	40.66'	S43°44'18"W	37.18'
CC5	25°24'54"	48'	21.29'	N14°50'59"E	21.12'
CC6	40°20'45"	65'	45.77'	S07°23'04"W	44.83'
CC7	31°49'41"	65'	36.11'	S28°42'09"E	35.65'
CC8	31°50'02"	65'	36.11'	S60°32'01"E	35.65'
CC9	43°31'47"	65'	49.38'	N81°47'04"E	48.2'
CC10	25°24'54"	48'	21.29'	S72°43'38"W	21.12'
CC64	96°42'27"	56'	94.52'	S46°12'42"E	83.69'
CC73	96°42'27"	38'	64.14'	S46°12'42"E	56.79'
CC74	07°55'59"	508'	70.34'	N89°18'03"E	70.28'

CURB LINE TABLE		
LINE	BEARING	DISTANCE
CL7	S02°08'32"W	107.46'
CL8	S02°08'32"W	134.55'
CL9	S85°26'05"W	225.68'
CL10	S85°26'05"W	199.6'
CL38	S87°26'32"E	13.02'
CL39	S86°20'20"E	23.45'
CL40	N85°20'03"E	36.47'
CL45	S02°08'32"W	178.81'
CL46	S02°08'32"W	62.97'
CL47	N85°26'05"E	62.97'
CL48	N85°26'05"E	225.68'

NOTES:
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BY: _____

DATE: 3/8/07

600757

Release Dates:

Revisions:

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LOVEBIRD LN. STATION 0+00 THRU 4+25.00

FALCON HEIGHTS SUBDIVISION

PARCEL 1: A PORTION O F TRACTS 1D, 2D, 3D AND 4D
FIRST SUPPLEMENTAL MAP OF PARKLAND ADDITION
CITY OF EL PASO, EL PASO COUNTY TX.

Project #: J05-093	Design By: AFJ		
Plot Date: 3/07/07	Drawn By: JM		
SHEET: C-12	Scale: 1" = 30'		

LAYOUT: C-13 LOVEBIRD LN. STATION 4+25.00 THRU 9+41.02

TRENCH EXCAVATION PROTECTION

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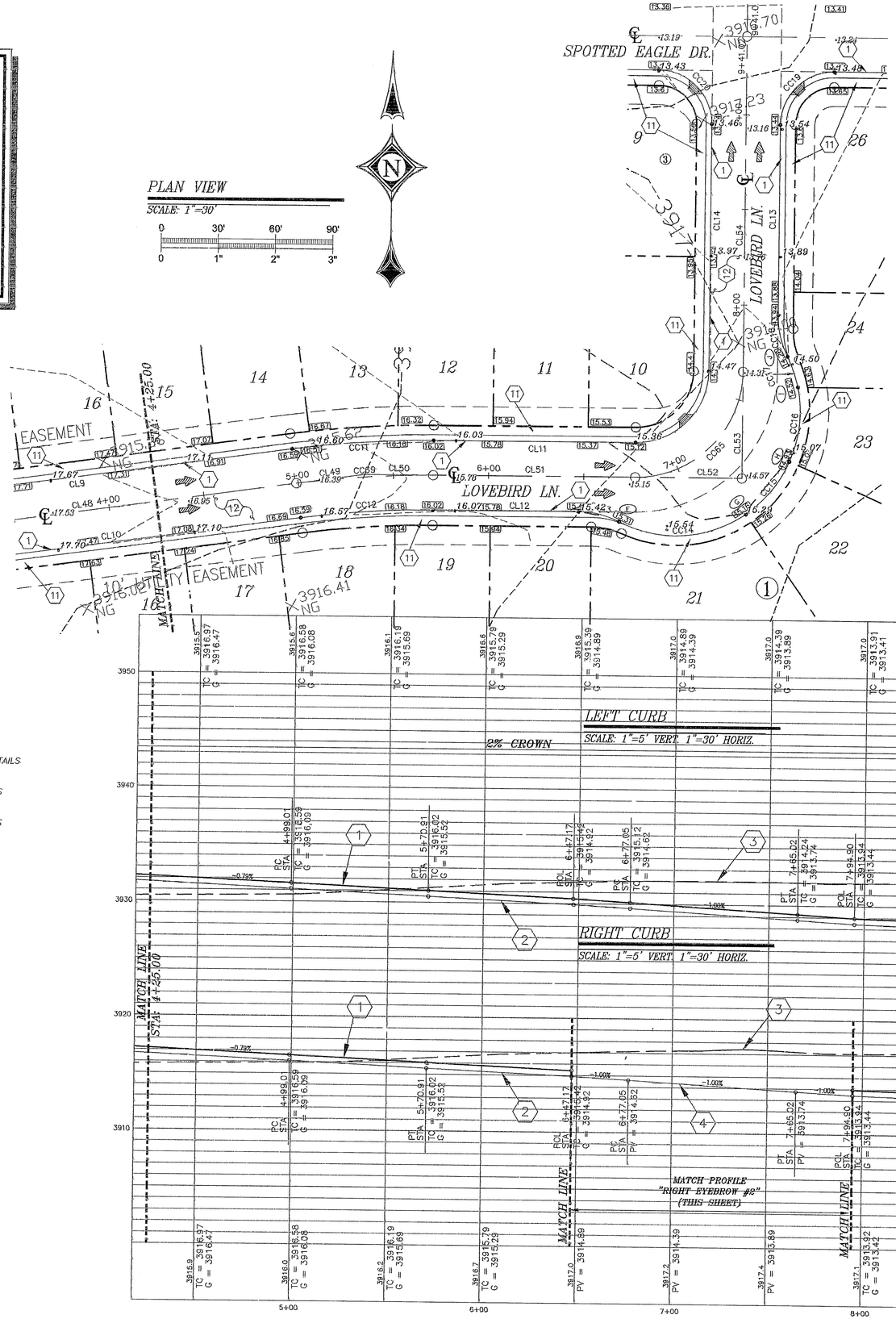
PLAN VIEW

SCALE: 1"=30'

0 30' 60' 90'
0 1" 2" 3"

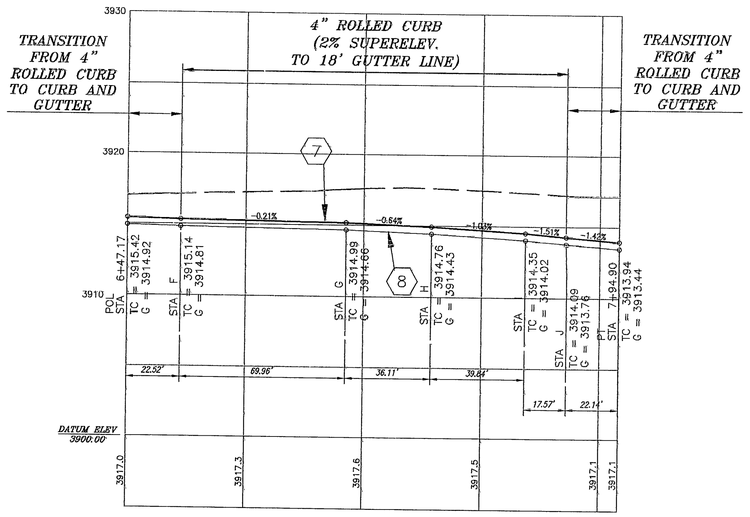


LEFT CURB

SCALE: 1"=5' VERT. 1"=30' HORIZ.

RIGHT CURB

SCALE: 1"=5' VERT. 1"=30' HORIZ.



RIGHT EYEBROW #2

MATCH FROM STA: 6+47.17 TO 7+94.90
SCALE: 1"=5' VERT. 1"=30' HORIZ.

KEYNOTE LEGEND

1. PROPOSED TOP OF CURB (6" STANDARD CURB AND GUTTER) SEE TYP. DETAILS
2. PROPOSED GUTTER LINE (6" STANDARD CURB AND GUTTER) SEE TYP. DETAILS
3. EXISTING GRADE LINE
4. PROPOSED TOP OF PAVEMENT SEE TYP. DETAILS
5. PROPOSED TEMPORARY EARTHEN BERM SEE TYP. DETAILS
6. PROPOSED TYPE I CURB AND GRATE INLET (# DENOTES NUMBER OF GRATES) SEE TYP. DETAILS
7. PROPOSED TOP OF CURB (4" STANDARD ROLLED CURB) SEE TYP. DETAILS
8. PROPOSED GUTTER LINE (4" STANDARD ROLLED CURB) SEE TYP. DETAILS
9. PROPOSED HANDICAP RAMP SEE TYP. DETAILS
10. 4' SIDEWALK SEE TYP. DETAILS
11. 5' SIDEWALK SEE TYP. DETAILS
12. TYPICAL PAVEMENT SECTION SEE TYP. DETAILS
13. 50' TRANSITION FROM 2% CROWN TO MATCH PAVEMENT
14. 6' ROCK SCREENWALL BY DEVELOPER (SEE TYP. DETAILS)
15. 18' WIDE CHAINLINK GATE (SEE TYP. DETAILS)

47.45 PROPOSED TOP OF CURB @ PC,PT (FG @ BACK OF SIDEWALK)

46.67 PV PROPOSED TOP OF PAVEMENT

BENCHMARK:
CITY MONUMENT AT INTERSECTION OF WOLVERINE AND DEER.
ELEVATION: 3909.26 (CITY DATUM)
(ADD 8.462 TO CONVERT TO NVGD)

NOTES:

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BY: _____

DATE: 3/8/07

CURB CURVE TABLE

CURVE	DELTA	RADIUS	ARC	CHORD BEARING	CHORD
CC11	07°49'57"	544'	74.37'	S89°21'03"W	74.31'
CC12	07°49'57"	508'	69.45'	S89°21'03"W	69.39'
CC13	26°53'05"	48'	22.52'	N73°17'26"W	22.32'
CC14	61°39'54"	65'	69.96'	N89°19'10"E	66.63'
CC15	31°49'52"	65'	36.11'	N42°34'17"E	35.65'
CC16	35°07'03"	65'	39.84'	N09°05'50"E	39.22'
CC17	15°09'21"	65'	17.19'	N16°02'22"W	17.14'
CC18	26°53'05"	48'	22.52'	S10°10'30"E	22.32'
CC19	90°00'00"	28'	43.98'	S48°16'02"W	39.6'
CC20	90°00'00"	28'	43.98'	N41°43'58"W	39.6'

CURB LINE TABLE

LINE	BEARING	DISTANCE
CL9	S85°26'05"W	225.68'
CL10	S85°26'05"W	199.6'
CL11	N86°43'58"W	106.14'
CL12	N86°43'58"W	76.25'
CL13	N03°16'02"E	100.12'
CL14	N03°16'02"E	130'
CL49	N85°25'50"E	35.99'
CL50	S86°43'58"E	36.03'
CL51	S86°43'58"E	106.14'
CL52	S86°43'58"E	56'
CL53	N03°16'02"E	56'
CL54	N03°16'02"E	176'

Release Dates:

Revisions:

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3/8/07 STATE OF TEXAS S.B. MASOUD REGISTERED PROFESSIONAL ENGINEER

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LOVEBIRD LN. STATION 4+25.00 THRU 9+41.02

FALCON HEIGHTS SUBDIVISION

PARCEL 1: A PORTION O F TRACTS 1D, 2D, 3D AND 4D
FIRST SUPPLEMENTAL MAP OF PARKLAND ADDITION
CITY OF EL PASO, EL PASO COUNTY TX.

Project #: J05-093	Design By: AFJ
Plot Date: 3/07/07	Drawn By: JM
SHEET: C-13	Scale: 1" = 30'

600757

FILE: Z:□J05-WORK DIRECTORY□J05-093 FALCON HEIGHTS SUBDIVISION (QUAIL SUB) □dwg□AsBuilts CIVIL 110705□05-093 C13-LOVEBIRD EX.dwg

LAYOUT: C-14 HUMMING BIRD LN. STATION 0+00 THRU 2+00

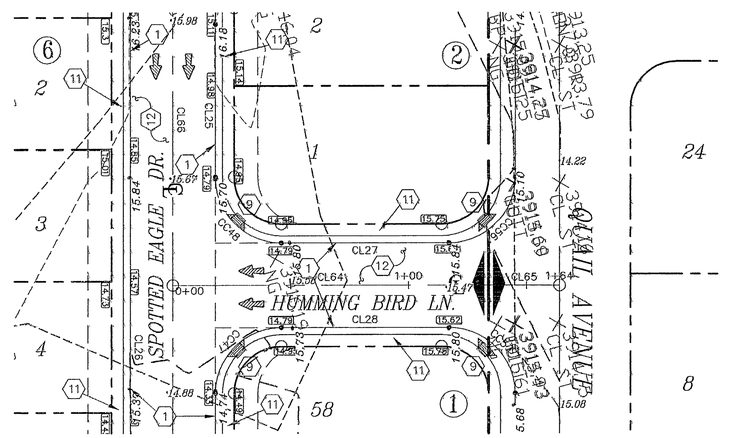
I C-19a

I C-19a

I C-19a

TRENCH EXCAVATION PROTECTION

CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR STRUCTURAL DESIGN/ GEOTECHNICAL/ SAFETY/ EQUIPMENT CONSULTANT, IF ANY, SHALL REVIEW THESE PLANS AND AVAILABLE GEOTECHNICAL INFORMATION AND THE ANTICIPATED INSTALLATION SITE(S) WITHIN THE PROJECT WORK AREA IN ORDER TO IMPLEMENT CONTRACTOR'S TRENCH EXCAVATION SAFETY PROTECTION SYSTEMS, PROGRAMS AND/OR PROCEDURES. THE CONTRACTOR'S IMPLANTATION OF THE SYSTEMS, PROGRAMS AND/OR PROCEDURES SHALL PROVIDE FOR ADEQUATE TRENCH EXCAVATION, SAFETY PROTECTION THAT COMPLIES WITH AS A MINIMUM, OSHA STANDARDS FOR TRENCH EXCAVATIONS. SPECIFICALLY, CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR SAFETY CONSULTANT SHALL IMPLEMENT A TRENCH SAFETY PROGRAM IN ACCORDANCE WITH OSHA STANDARDS GOVERNING THE PRESENCE AND ACTIVITIES OF INDIVIDUALS WORKING IN AND AROUND TRENCH EXCAVATION.



PLAN VIEW

SCALE: 1"=30'

0 30' 60' 90'
0 1" 2" 3"

N

KEYNOTE LEGEND

1. PROPOSED TOP OF CURB (6" STANDARD CURB AND GUTTER) SEE TYP. DETAILS
2. PROPOSED GUTTER LINE (6" STANDARD CURB AND GUTTER) SEE TYP. DETAILS
3. EXISTING GRADE LINE
4. PROPOSED TOP OF PAVEMENT SEE TYP. DETAILS
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12. TYPICAL PAVEMENT SECTION SEE TYP. DETAILS
13. 50' TRANSITION FROM 2% CROWN TO MATCH PAVEMENT
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15. 18' WIDE CHAINLINK GATE (SEE TYP. DETAILS)

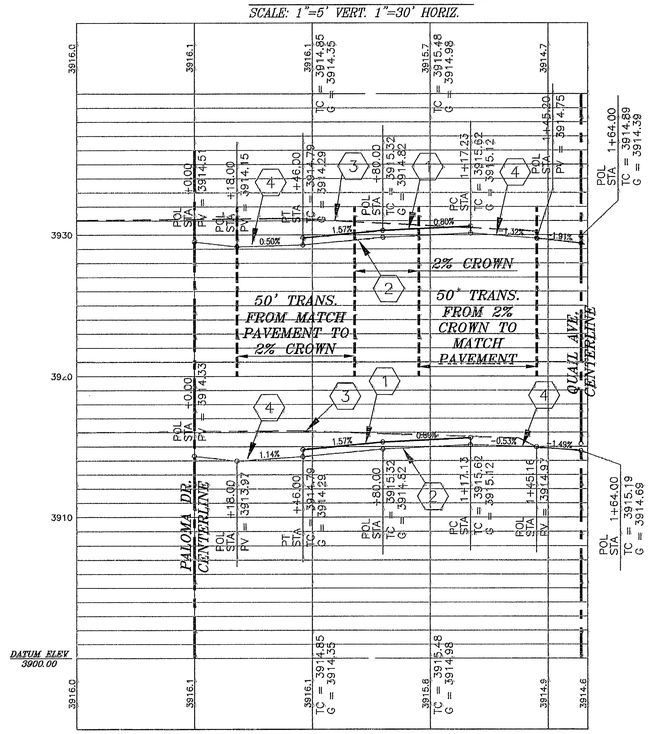
47.45 PROPOSED TOP OF CURB @ PC,PT (FG @ BACK OF SIDEWALK)

46.67 PV PROPOSED TOP OF PAVEMENT

BENCHMARK:
CITY MONUMENT AT INTERSECTION OF WOLVERINE AND DEER.
ELEVATION: 3909.26 (CITY DATUM)
(ADD 8.462 TO CONVERT TO NAVD).

LEFT CURB

SCALE: 1"=5' VERT. 1"=30' HORIZ.



RIGHT CURB

SCALE: 1"=5' VERT. 1"=30' HORIZ.

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BY: _____

DATE: 3/8/07

CURB CURVE TABLE

CURVE	DELTA	RADIUS	ARC	CHORD BEARING	CHORD
CC47	90°00'00"	28'	43.98'	S41°43'58"E	39.6'
CC48	90°00'00"	28'	43.98'	N48°16'02"E	39.6'
CC56	89°57'41"	28'	43.96'	N41°42'49"W	39.58'
CC57	90°04'56"	28'	44.02'	S48°18'30"W	39.63'

CURB LINE TABLE

LINE	BEARING	DISTANCE
CL25	N86°43'58"W	64.83'
CL26	S86°43'58"E	334'
CL27	N03°16'02"E	71.23'
CL28	N03°16'02"E	71.13'
CL64	N03°16'02"E	134'
CL65	N03°16'02"E	30'
CL66	N86°43'58"W	140.72'

Release Dates:

Revisions:

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3/8/07 STATE OF TEXAS S.B. MASOUD

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P.O. Box 220251 El Paso, Texas 79913 915.833-2400

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HUMMING BIRD LN. STATION 0+00 THRU 2+00

FALCON HEIGHTS SUBDIVISION
PARCEL 1: A PORTION O F TRACTS 1D, 2D, 3D AND 4D
FIRST SUPPLEMENTAL MAP OF PARKLAND ADDITION
CITY OF EL PASO, EL PASO COUNTY TX.

Project #: J05-093	Design By: AFJ
Plot Date: 3/07/07	Drawn By: JM
SHEET: C-14	Scale: 1" = 30'

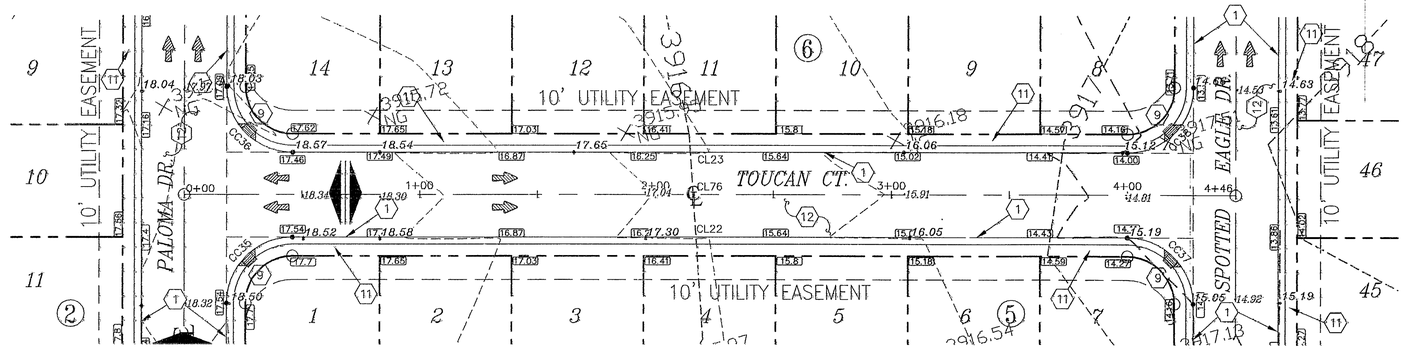
600757

FILE: Z:\J05-WORK\ DIRECTORY\J05-093 FALCON HEIGHTS SUBDIVISION (QUAIL SUB)\dwg\AsBuilts CIVIL 110705\J05-093 C14-HUMMING BIRD LN.dwg

LAYOUT: C-15 TOUCAN CT. STATION 0+00 THRU 4+50.00

TRENCH EXCAVATION PROTECTION

CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR STRUCTURAL DESIGN/ GEOTECHNICAL/ SAFETY/ EQUIPMENT CONSULTANT, IF ANY, SHALL REVIEW THESE PLANS AND AVAILABLE GEOTECHNICAL INFORMATION AND THE ANTICIPATED INSTALLATION SITE(S) WITHIN THE PROJECT WORK AREA IN ORDER TO IMPLEMENT CONTRACTOR'S TRENCH EXCAVATION SAFETY PROTECTION SYSTEMS, PROGRAMS AND/OR PROCEDURES. THE CONTRACTOR'S IMPLANTATION OF THE SYSTEMS, PROGRAMS AND/OR PROCEDURES SHALL PROVIDE FOR ADEQUATE TRENCH EXCAVATION, SAFETY PROTECTION THAT COMPLIES WITH AS A MINIMUM, OSHA STANDARDS FOR TRENCH EXCAVATIONS. SPECIFICALLY, CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR SAFETY CONSULTANT SHALL IMPLEMENT A TRENCH SAFETY PROGRAM IN ACCORDANCE WITH OSHA STANDARDS GOVERNING THE PRESENCE AND ACTIVITIES OF INDIVIDUALS WORKING IN AND AROUND TRENCH EXCAVATION.



KEYNOTE LEGEND

1. PROPOSED TOP OF CURB (6" STANDARD CURB AND GUTTER) SEE TYP. DETAILS
2. PROPOSED GUTTER LINE (6" STANDARD CURB AND GUTTER) SEE TYP. DETAILS
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14. 6' ROCK SCREENWALL BY DEVELOPER (SEE TYP. DETAILS)
15. 18' WIDE CHAINLINK GATE (SEE TYP. DETAILS)

47.43 PROPOSED TOP OF CURB @ PC,PT (FG @ BACK OF SIDEWALK)

48.67 PV PROPOSED TOP OF PAVEMENT

BENCHMARK:
CITY MONUMENT AT INTERSECTION OF WOLVERINE AND DEER.
ELEVATION: 3909.26 (CITY DATUM)
(ADD 8.462 TO CONVERT TO NVGD)

CURB CURVE TABLE					
CURVE	DELTA	RADIUS	ARC	CHORD BEARING	CHORD
CC35	90°00'00"	28'	43.98'	S48°16'02"W	39.6'
CC36	90°00'00"	28'	43.98'	S41°43'58"E	39.6'
CC37	90°00'00"	28'	43.98'	N41°43'58"W	39.6'
CC38	90°00'00"	28'	43.98'	N48°16'02"E	39.6'

CURB LINE TABLE		
LINE	BEARING	DISTANCE
CL22	S86°43'58"E	354'
CL23	N86°43'58"W	354'
CL76	S86°43'58"E	446'

PLAN VIEW

SCALE: 1"=30'

0 30' 60' 90'
0 1" 2" 3"

N

NOTES:
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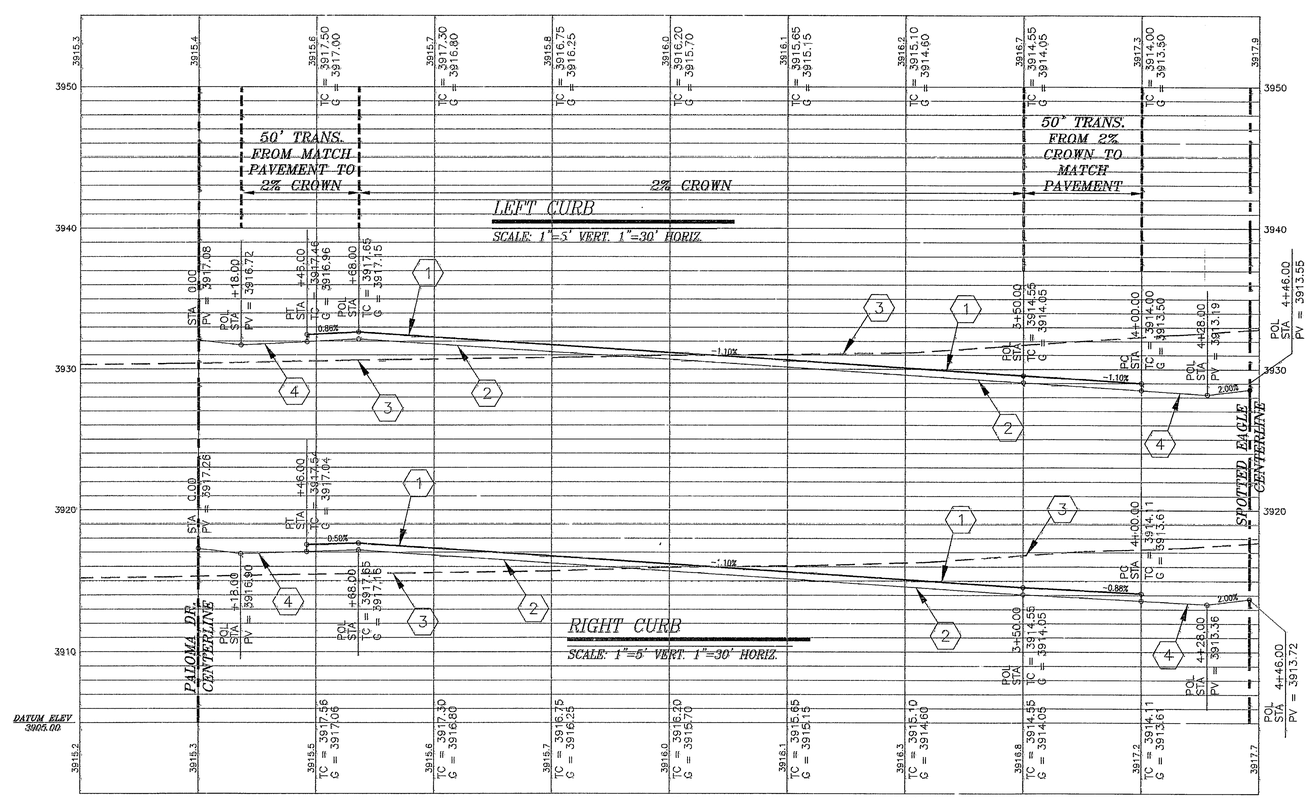

FILE: Z:\J05-WORK DIRECTORY\J05-093 FALCON HEIGHTS SUBDIVISION (QUAIL SUB)\dwg\AsBuilts CIVIL 110708\J05-093 C15-TOUCAN CT.dwg

Release Dates:

Revisions:

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3/8/07 STATE OF TEXAS S.B. MASOUD 70774 REGISTERED PROFESSIONAL ENGINEER

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TOUCAN CT. STATION 0+00 THRU 4+50.00

FALCON HEIGHTS SUBDIVISION

PARCEL 1: A PORTION O F TRACTS 1D, 2D, 3D AND 4D
FIRST SUPPLEMENTAL MAP OF PARKLAND ADDITION
CITY OF EL PASO, EL PASO COUNTY TX.

Project #: J05-093	Design By: AFJ	
Plot Date: 3/07/07	Drawn By: JM	
SHEET: C-15	Scale: 1" = 30'	

600757

LAYOUT: C-16 PARAKEET CT. STATION 0+00 THRU 4+50.00

TRENCH EXCAVATION PROTECTION

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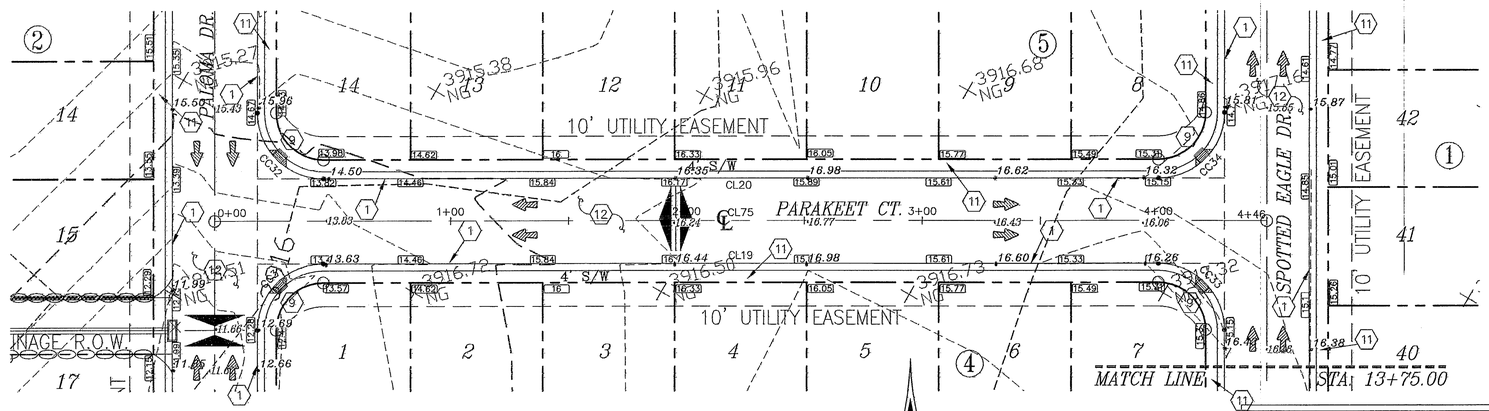

PLAN VIEW

SCALE: 1"=30'

0 30' 60' 90'

0 1" 2" 3"

NOTES:

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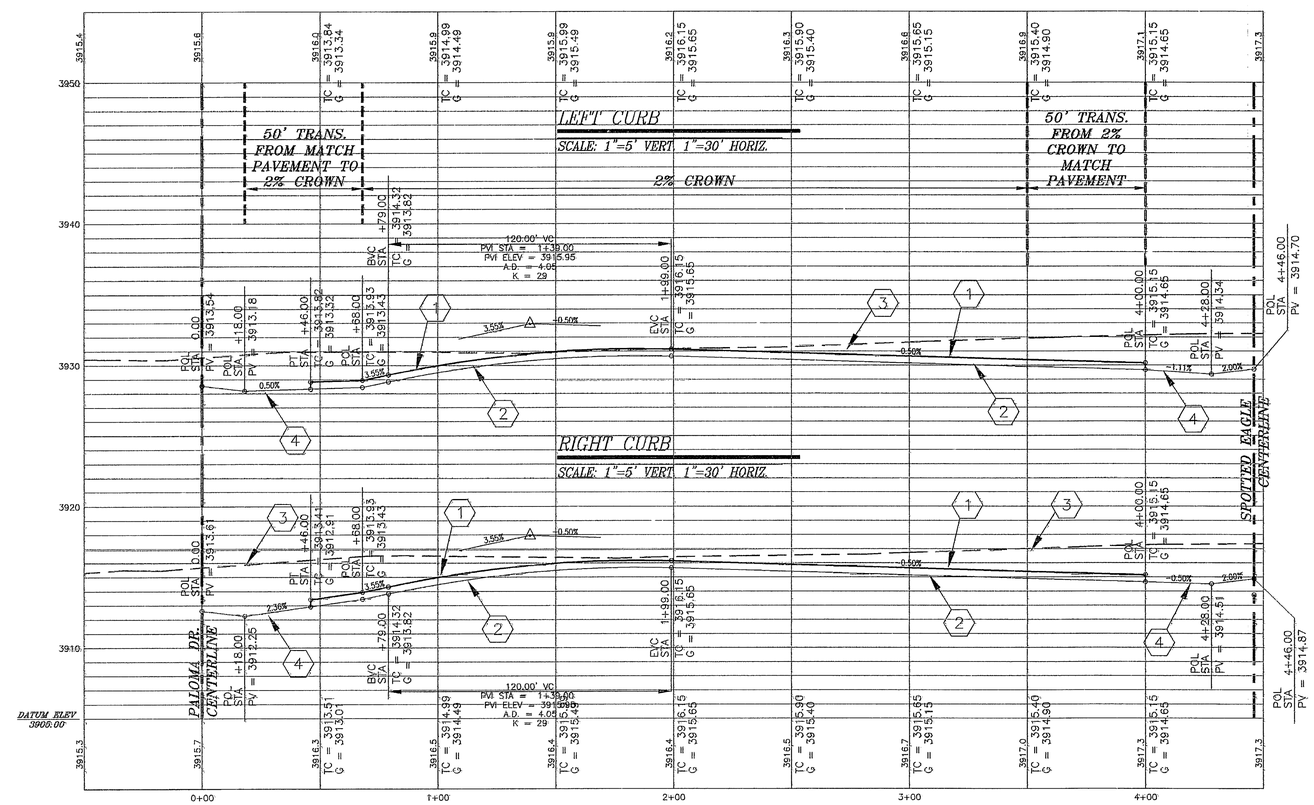
BY: _____

DATE: 3/8/07

CURB CURVE TABLE					
CURVE	DELTA	RADIUS	ARC	CHORD BEARING	CHORD
CC30	90°00'00"	38'	59.69'	N48°16'02"E	53.74'
CC31	90°00'00"	28'	43.98'	S48°16'02"W	39.6'
CC32	90°00'00"	28'	43.98'	S41°43'58"E	39.6'
CC33	90°00'00"	28'	43.98'	N41°43'58"W	39.6'
CC34	90°00'00"	28'	43.98'	N48°16'02"E	39.6'

CURB LINE TABLE		
LINE	BEARING	DISTANCE
CL17	N03°16'02"E	564.12'
CL18	N03°16'02"E	140'
CL19	S86°43'58"E	354'
CL20	S86°43'58"E	354'
CL31	S03°16'02"W	524.23'
CL75	S86°43'58"E	446'



KEYNOTE LEGEND

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87.45 PROPOSED TOP OF CURB @ PC,PT (FG @ BACK OF SIDEWALK)

46.67 PV PROPOSED TOP OF PAVEMENT

BENCHMARK:
CITY MONUMENT AT INTERSECTION OF WOLVERINE AND DEER.
ELEVATION: 3909.26 (CITY DATUM)
(ADD 8.462 TO CONVERT TO NVGD)

Release Dates:

Revisions:

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PARAKEET CT. STATION 0+00 THRU 4+50.00

FALCON HEIGHTS SUBDIVISION

PARCEL 1: A PORTION O F TRACTS 1D, 2D, 3D AND 4D
FIRST SUPPLEMENTAL MAP OF PARKLAND ADDITION
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Project #: J05-093		Design By: AFJ	
Plot Date: 3/07/07		Drawn By: JM	
SHEET: C-16		Scale: 1" = 30'	

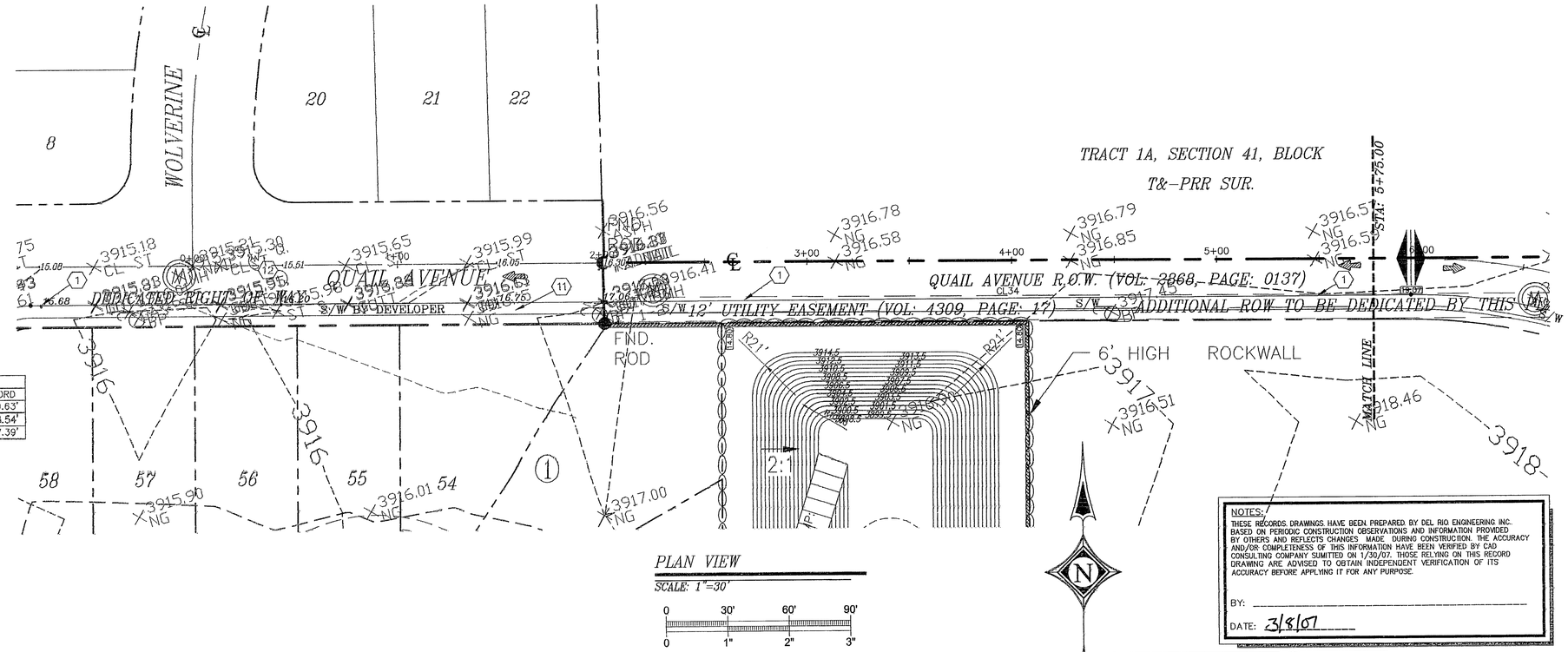
FILE: Z:□J05-WORK DIRECTORY□J05-093 FALCON HEIGHTS SUBDIVISION (QUAIL SUB) (.dwg□AsBuilts CIVIL 110705□J05-093 C16-PARAKEET CT.dwg

600757

LAYOUT: C-17 QUAIL AVE. STATION

TRENCH EXCAVATION PROTECTION

CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR STRUCTURAL DESIGN/ GEOTECHNICAL/ SAFETY/ EQUIPMENT CONSULTANT, IF ANY, SHALL REVIEW THESE PLANS AND AVAILABLE GEOTECHNICAL INFORMATION AND THE ANTICIPATED INSTALLATION SITE(S) WITHIN THE PROJECT WORK AREA IN ORDER TO IMPLEMENT CONTRACTOR'S TRENCH EXCAVATION SAFETY PROTECTION SYSTEMS, PROGRAMS AND/OR PROCEDURES. THE CONTRACTOR'S IMPLANTATION OF THE SYSTEMS, PROGRAMS AND/OR PROCEDURES SHALL PROVIDE FOR ADEQUATE TRENCH EXCAVATION, SAFETY PROTECTION THAT COMPLIES WITH AS A MINIMUM, OSHA STANDARDS FOR TRENCH EXCAVATIONS. SPECIFICALLY, CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR SAFETY CONSULTANT SHALL IMPLEMENT A TRENCH SAFETY PROGRAM IN ACCORDANCE WITH OSHA STANDARDS GOVERNING THE PRESENCE AND ACTIVITIES OF INDIVIDUALS WORKING IN AND AROUND TRENCH EXCAVATION.



CURB CURVE TABLE					
CURVE	DELTA	RADIUS	ARC	CHORD BEARING	CHORD
CC57	90°04'56"	28'	44.02'	S48°18'30"W	39.63'
CC58	28°26'23"	282'	139.98'	N72°30'46"W	138.54'
CC59	28°26'23"	300'	148.91'	N72°30'46"W	147.39'

CURB LINE TABLE		
LINE	BEARING	DISTANCE
CL34	S86°55'04"E	393.15'

PLAN VIEW

SCALE: 1"=30'

0 30' 60' 90'
0 1" 2" 3"

NOTES:
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BY: _____

DATE: 3/8/07

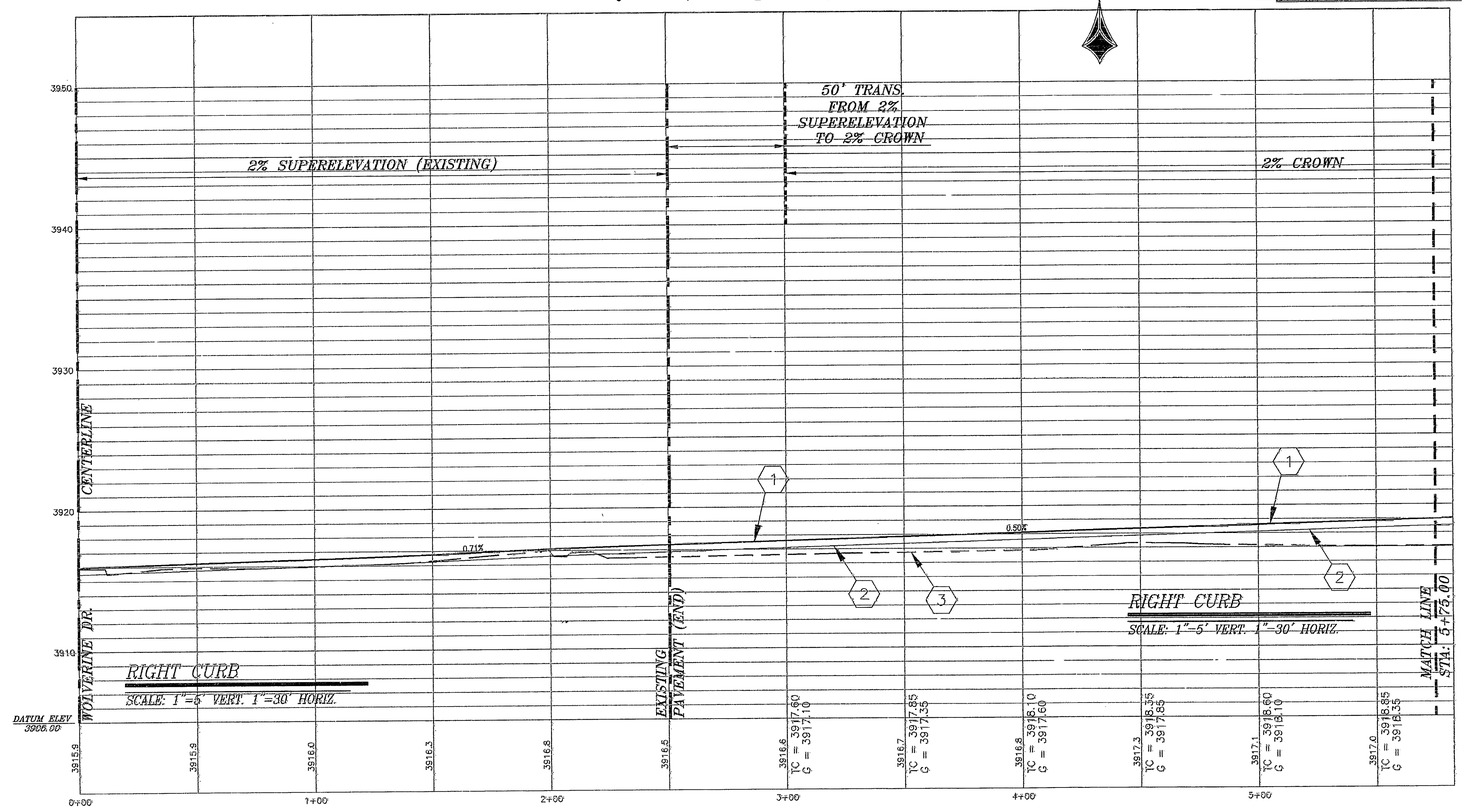
KEYNOTE LEGEND

1. PROPOSED TOP OF CURB (6" STANDARD CURB AND GUTTER) SEE TYP. DETAILS
2. PROPOSED GUTTER LINE (6" STANDARD CURB AND GUTTER) SEE TYP. DETAILS
3. EXISTING GRADE LINE
4. PROPOSED TOP OF PAVEMENT SEE TYP. DETAILS
5. PROPOSED TEMPORARY EARTHEN BERM SEE TYP. DETAILS
6. PROPOSED TYPE I CURB AND GRATE INLET (# DENOTES NUMBER OF GRATES) SEE TYP. DETAILS
7. PROPOSED TOP OF CURB (4" STANDARD ROLLED CURB) SEE TYP. DETAILS
8. PROPOSED GUTTER LINE (4" STANDARD ROLLED CURB) SEE TYP. DETAILS
9. PROPOSED HANDICAP RAMP SEE TYP. DETAILS
10. 4' SIDEWALK SEE TYP. DETAILS
11. 5' SIDEWALK SEE TYP. DETAILS
12. TYPICAL PAVEMENT SECTION SEE TYP. DETAILS
13. 50' TRANSITION FROM 2% CROWN TO MATCH PAVEMENT
14. 6' ROCK SCREENWALL BY DEVELOPER (SEE TYP. DETAILS)
15. 18' WIDE CHAINLINK GATE (SEE TYP. DETAILS)

47.35 PROPOSED TOP OF CURB @ PC,PT (FC @ BACK OF SIDEWALK)

46.67 PV PROPOSED TOP OF PAVEMENT

BENCHMARK:
CITY MONUMENT AT INTERSECTION OF WOLVERINE AND DEER.
ELEVATION: 3909.26 (CITY DATUM)
(ADD 8.462 TO CONVERT TO NVGD)



Release Dates:

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3/8/07
STATE OF TEXAS
S.B. MASOUD
70774
REGISTERED PROFESSIONAL ENGINEER

Del Rio Engineering, Inc.
P.O. Box 220251 El Paso, Texas 79913 915/833-2400

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QUAIL AVE. STATION 0+00 THRU 5+75.00

FALCON HEIGHTS SUBDIVISION
PARCEL 1: A PORTION O F TRACTS 1D, 2D, 3D AND 4D
FIRST SUPPLEMENTAL MAP OF PARKLAND ADDITION
CITY OF EL PASO, EL PASO COUNTY TX.

Project #: J05-093	Design By: AFJ
Plot Date: 3/07/07	Drawn By: JM
SHEET: C-17	Scale: 1" = 30'

FILE: Z:\05-WORK DIRECTORY\05-093 FALCON HEIGHTS SUBDIVISION (QUAIL SUB)\dwg\AsBuilts CIVIL 1\1070505-093 C17-QUAIL AVE.dwg

600757

LAYOUT: C-18 QUAIL AVE. STATION 5+75.00 THRU 8+33.62

TRENCH EXCAVATION PROTECTION

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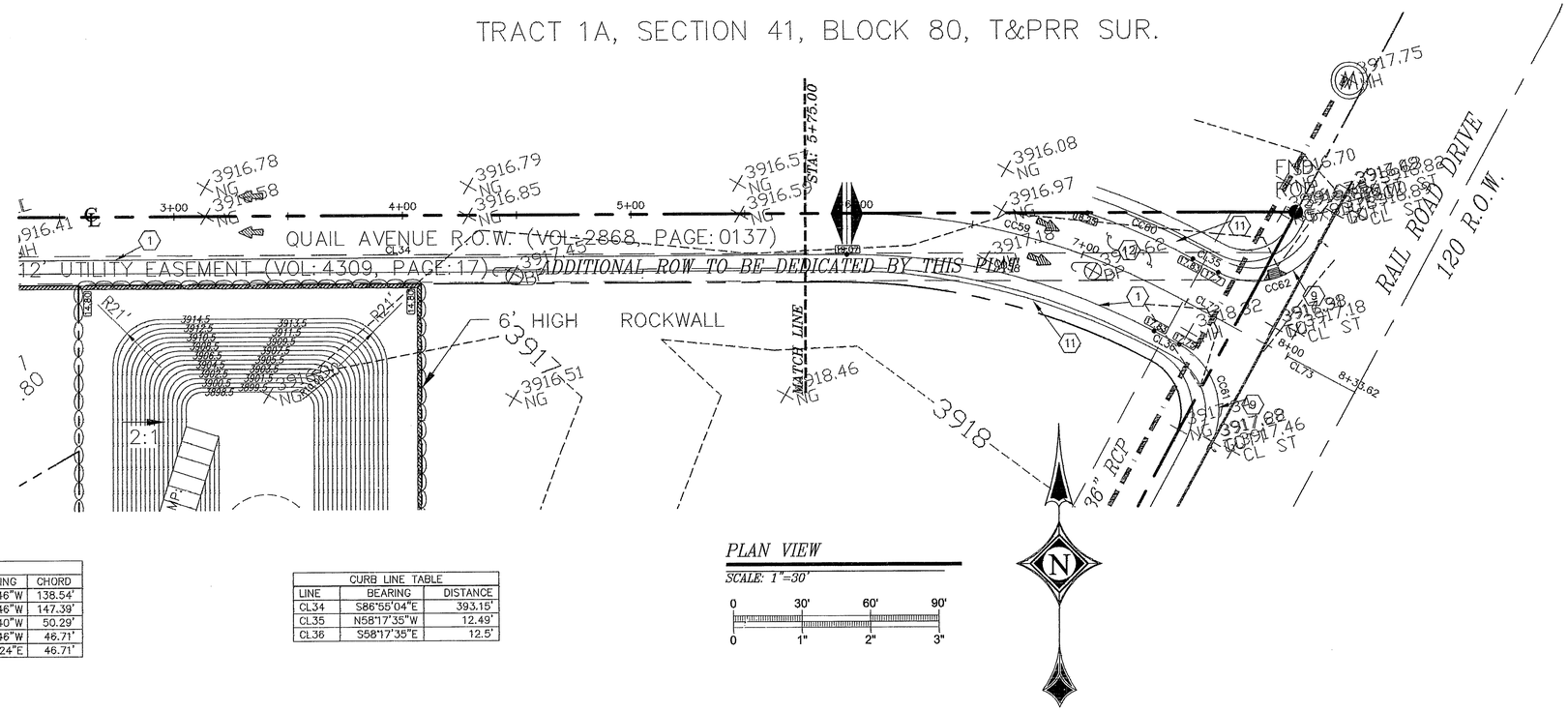

PLAN VIEW

SCALE: 1"=30'

0 30' 60' 90'

0 1" 2" 3"

CURB CURVE TABLE					
CURVE	DELTA	RADIUS	ARC	CHORD BEARING	CHORD
CC58	28°26'23"	282'	139.98'	N72°30'46"W	138.54'
CC59	28°26'23"	300'	148.91'	N72°30'46"W	147.39'
CC60	09°04'11"	318'	50.34'	N62°49'40"W	50.29'
CC61	90°05'37"	33'	51.89'	N13°14'46"W	46.71'
CC62	90°06'07"	33'	51.9'	N76°41'24"E	46.71'

CURB LINE TABLE		
LINE	BEARING	DISTANCE
CL34	S86°55'04"E	393.15'
CL35	N58°17'35"W	12.49'
CL36	S58°17'35"E	12.5'

KEYNOTE LEGEND

1. PROPOSED TOP OF CURB (6" STANDARD CURB AND GUTTER) SEE TYP. DETAILS
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BENCHMARK:
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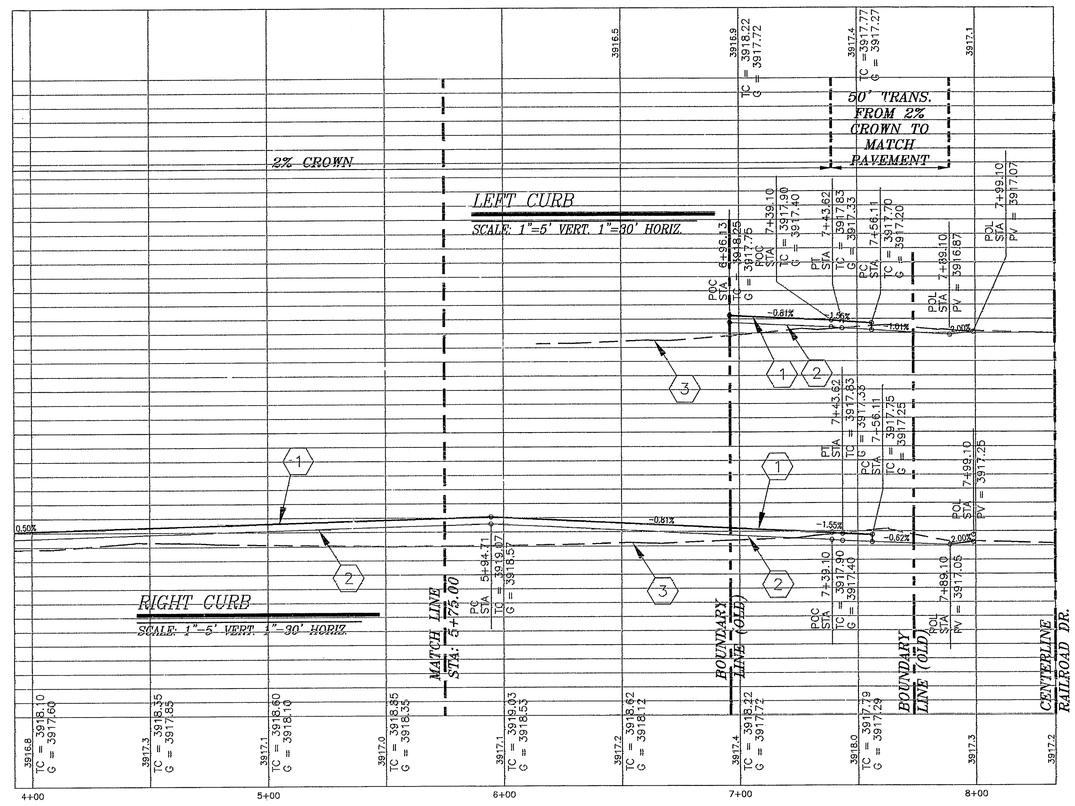
ELEVATION: 3909.26 (CITY DATUM)
(ADD 8.462 TO CONVERT TO NVGD)



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3/8/07 STATE OF TEXAS S.B. MASOUD 70774 REGISTERED PROFESSIONAL ENGINEER

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BY: _____

DATE: 3/8/07

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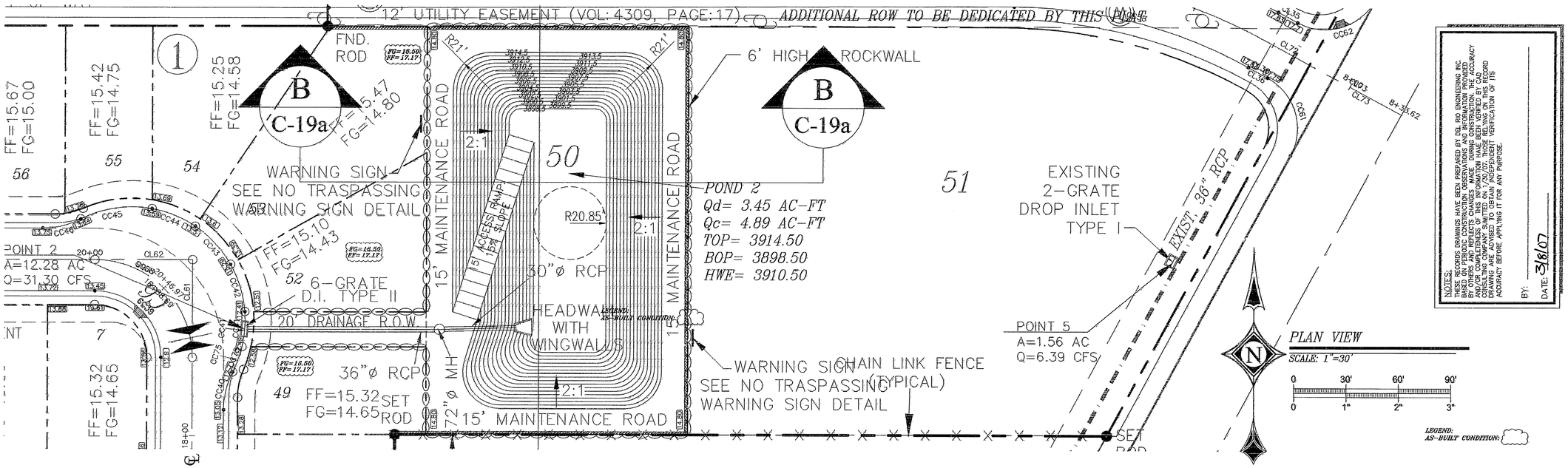
QUAIL AVE. STATION 5+75.00 THRU 8+33.62

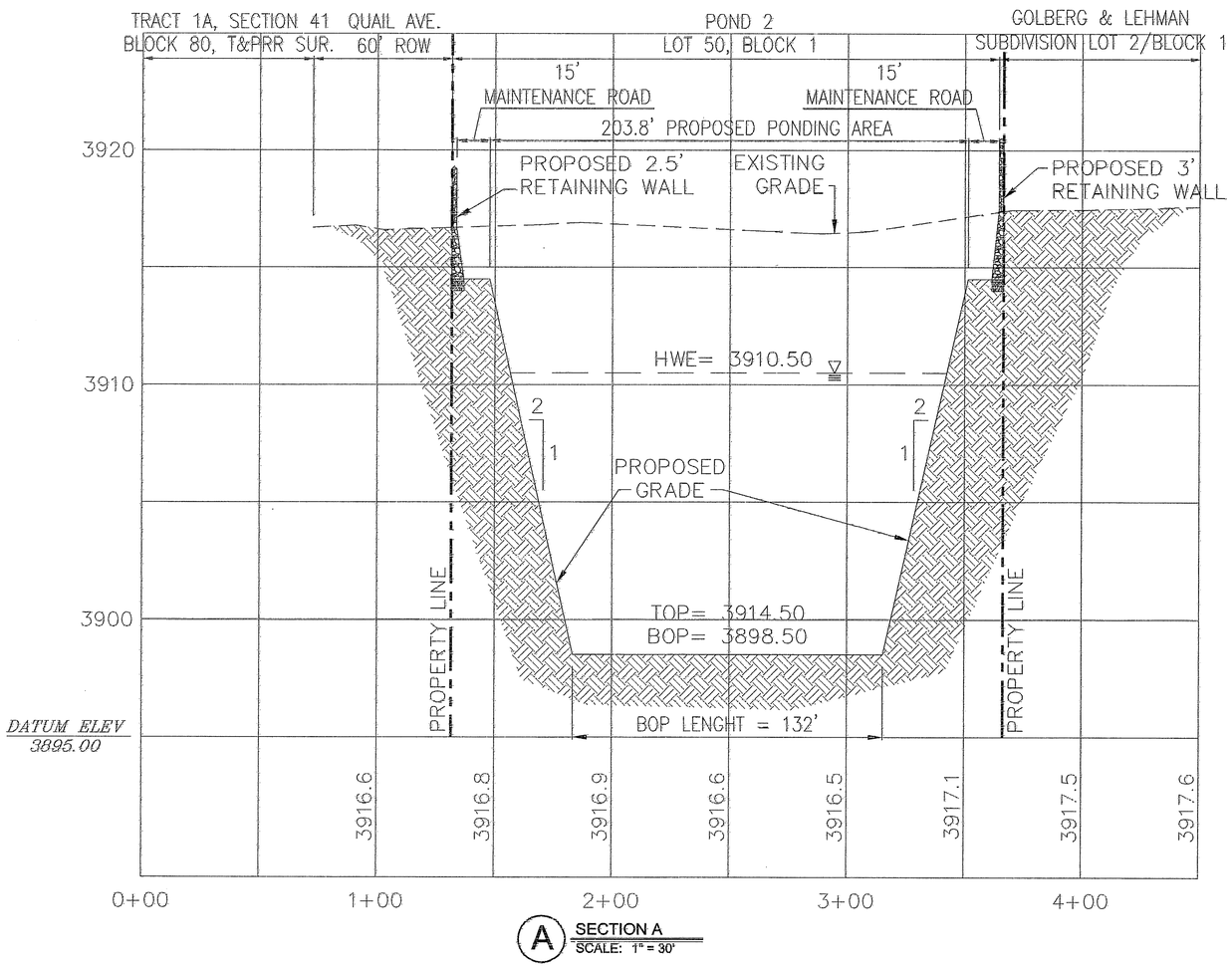
FALCON HEIGHTS SUBDIVISION

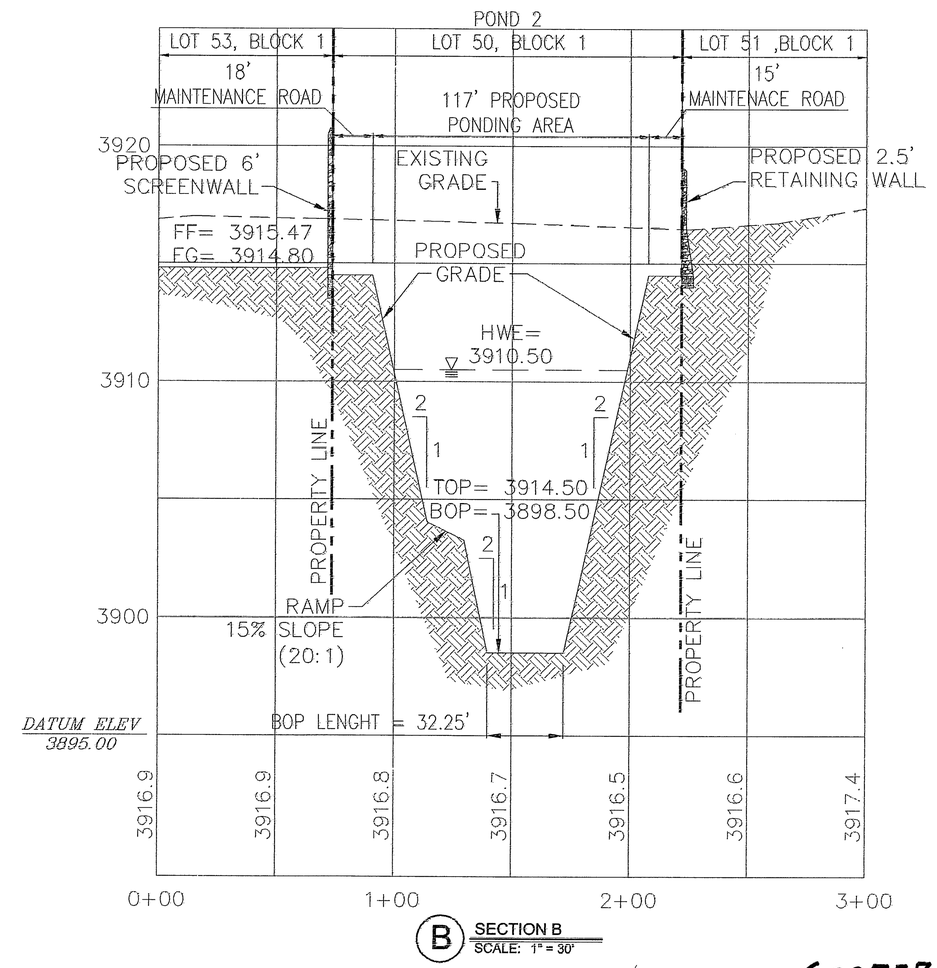
PARCEL 1: A PORTION O F TRACTS 1D, 2D, 3D AND 4D
FIRST SUPPLEMENTAL MAP OF PARKLAND ADDITION
CITY OF EL PASO, EL PASO COUNTY TX.

Project #: J05-093	Design By: AFJ	
Plot Date: 3/07/07	Drawn By: JM	
SHEET: C-18	Scale: AS NOTED	

600757







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TYPICAL SECTIONS

FALCON HEIGHTS SUBDIVISION
PARCEL 1: A PORTION O F TRACTS 1D, 2D, 3D AND 4D
FIRST SUPPLEMENTAL MAP OF PARKLAND ADDITION
CITY OF EL PASO, EL PASO COUNTY TX.

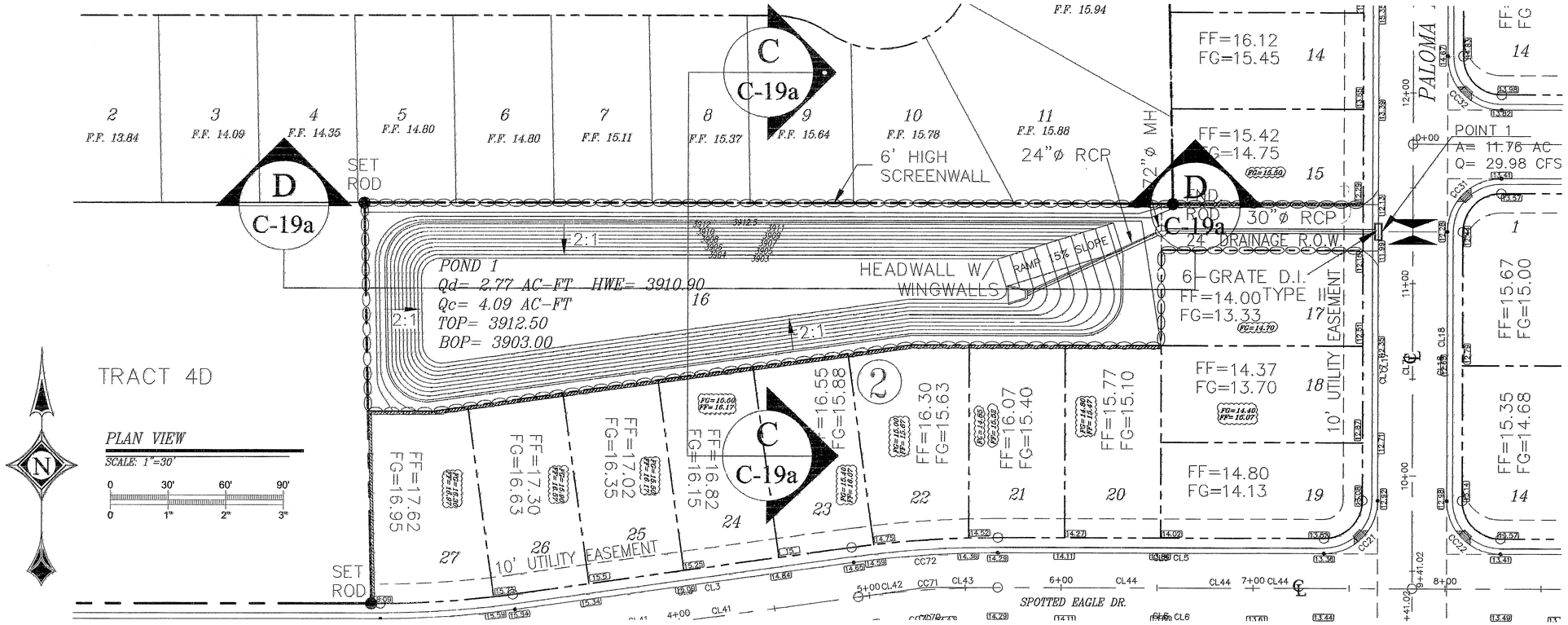
Project #: J05-093	Design By: AFJ
Plot Date: 3/07/07	Drawn By: JM
SHEET: C-19a	Scale: 1" = 30'

600757

LAYOUT: C-19a TYPICAL SECTIONS

FILE: Z:\J05-WORK DIRECTORY\J05-093 FALCON HEIGHTS SUBDIVISION (QUAIL SUB)\dwg\CAd\Builds CIVIL 11\0705\J05-093 C19a-TYPICAL SECTIONS.dwg

LAYOUT: C-19b TYPICAL SECTIONS



LEGEND:
AS-BUILT CONDITION:

NOTES:
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BY: _____

DATE: 3/8/07

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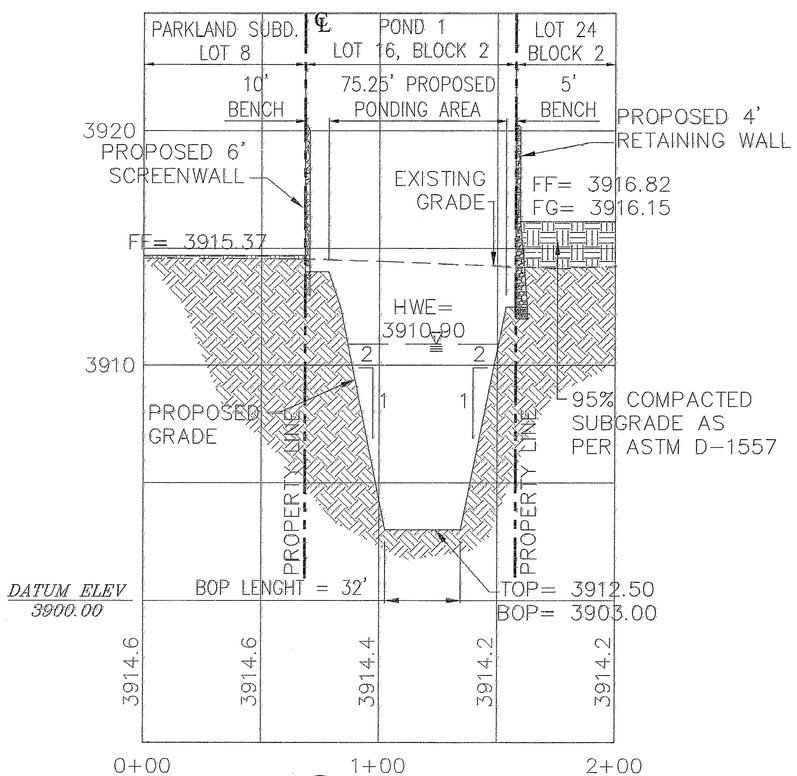
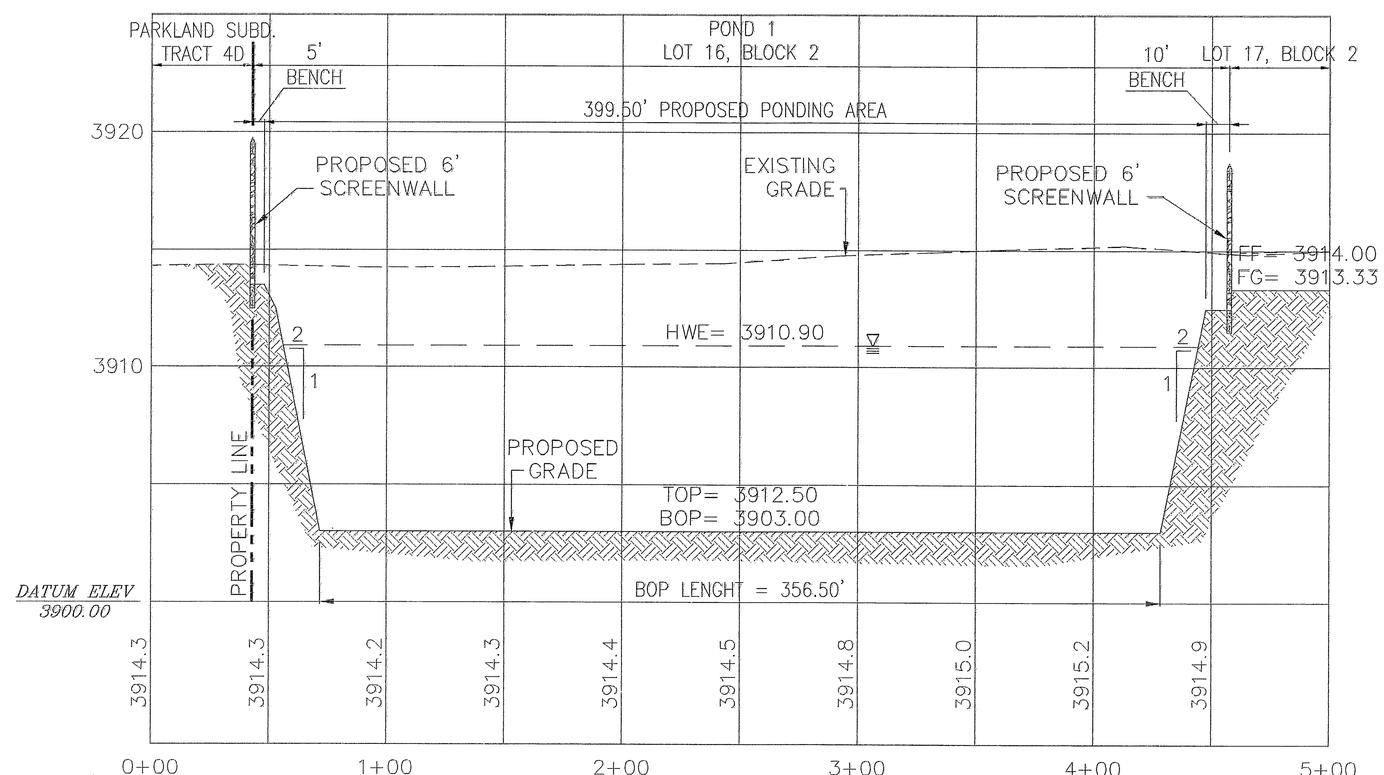


C SECTION C
SCALE: 1" = 40'



D SECTION D
SCALE: 1" = 40'

TYPICAL SECTIONS

FALCON HEIGHTS SUBDIVISION
PARCEL 1: A PORTION O F TRACTS 1D, 2D, 3D AND 4D
FIRST SUPPLEMENTAL MAP OF PARKLAND ADDITION
CITY OF EL PASO, EL PASO COUNTY TX.

Project #: J05-093	Design By: AFJ	
Plot Date: 3/07/07	Drawn By: JM	
SHEET: C-19b	Scale: 1" = 30'	

FILE: Z:\J05-WORK DIRECTORY\J05-093 FALCON HEIGHTS SUBDIVISION (QUALL SUB)\dwg\AsBuilts CIVIL 11\706\J05-093 C19b-TYPICAL SECTIONS.dwg

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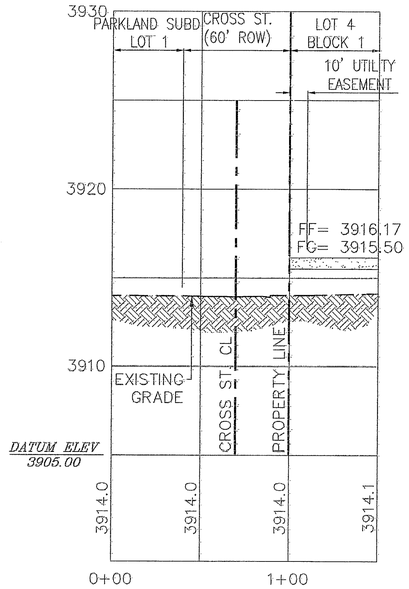
LAYOUT: C-19c TYPICAL SECTIONS



E SECTION E
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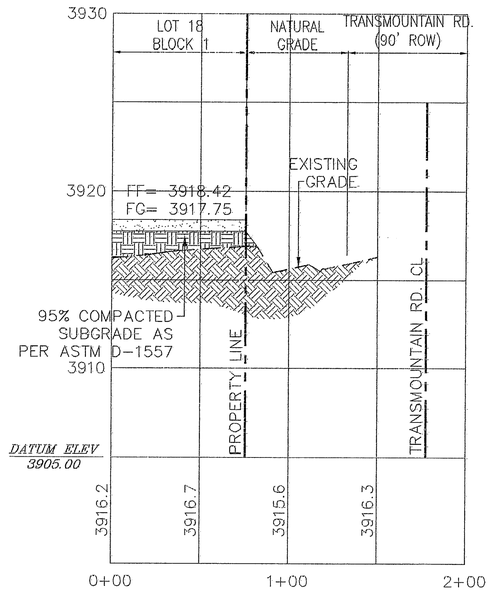

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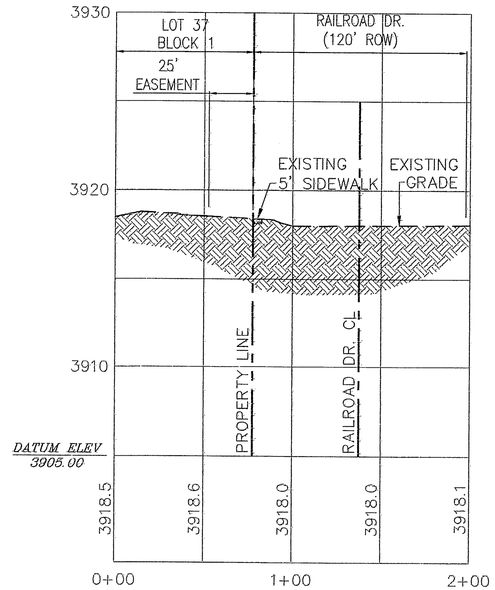

G SECTION G
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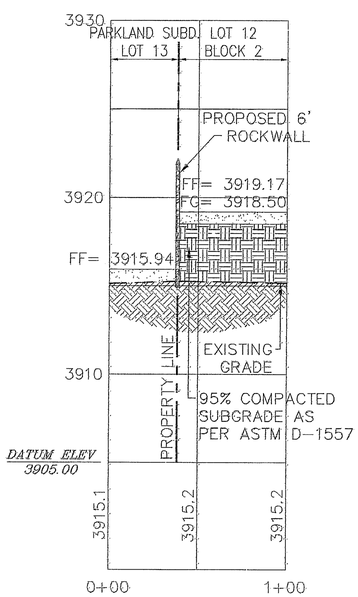
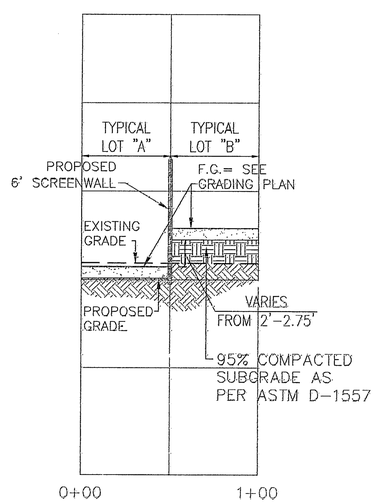
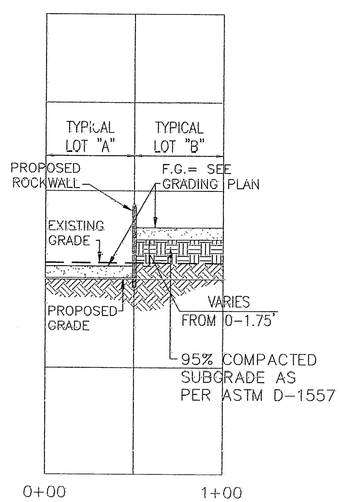


H SECTION H
SCALE: 1" = 30'



I SECTION H
SCALE: 1" = 30'



J SECTION H
SCALE: 1" = 30'

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BY: _____

DATE: 3/8/07

Release Dates:

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TYPICAL SECTIONS

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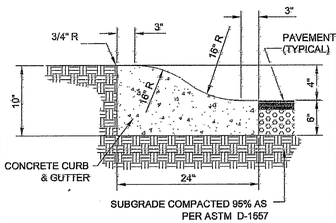
PARCEL 1: A PORTION O F TRACTS 1D, 2D, 3D AND 4D
FIRST SUPPLEMENTAL MAP OF PARKLAND ADDITION
CITY OF EL PASO, EL PASO COUNTY TX.

Project #: J05-093	Design By: AFJ		
Plot Date: 3/07/07	Drawn By: JM		
SHEET: C-19c	Scale: 1" = 40'		

600757

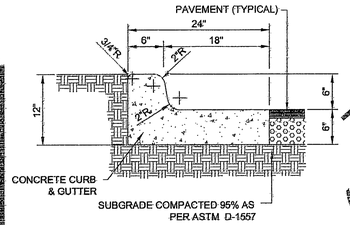
FILE: Z:\J05-WORK DIRECTORY\J05-093 FALCON HEIGHTS SUBDIVISION (QUAIL SUB)\dwg\AsBuilts CIVIL 11\07\05\J05-093 C19c-TYPICAL SECTIONS.dwg



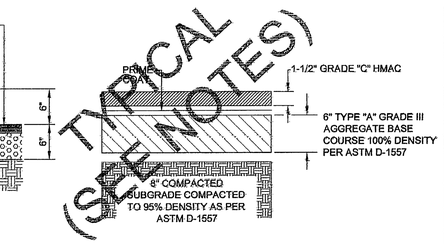
4" ROLLED CURB SECTION

NOTES:
1. CONCRETE CURB, GUTTER, AND RETURNS SHALL BE 3,000 P.S.I. MIN.
2. DUMMY JOINT REQUIRED AT 10' O.C.
3. 1/2" PREMOLDED BITUMINOUS EXPANSION JOINT (AASHTO M-33) IS REQUIRED FOR ALL CURB RETURNS. TRIM BITUMINOUS MATERIAL 1/4" LESS THAN NEAT CURB & GUTTER DIMENSION.
4. SUBGRADE UNDER CURB MUST BE FORMED AND COMPACTED TO 95% ASTM D1557.
5. EXPANSION JOINTS REQUIRED AT 50' O.C. WHEN FORMING FOR CURBS.

A C-20 CONCRETE CURB DETAILS
SCALE: NTS



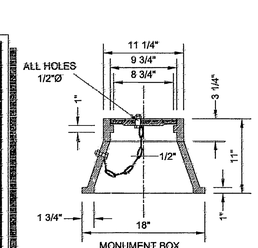
STANDARD CURB & GUTTER SECTION



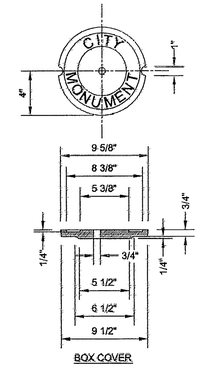
MISC. NOTES:

A. STREETS TO BE DEDICATED AND MAINTAINED BY CITY OF EL PASO UPON COMPLETION AND ACCEPTANCE.
B. SHOW IS TYPICAL PAVEMENT DESIGN. A C.B.R. AND SOILS TEST MUST BE COMPLETED AND SUBMITTED TO CITY OF EL PASO PRIOR TO THE COMMENCEMENT OF CONSTRUCTION. IF THE C.B.R. TEST RESULTS DIFFER THAT WHAT IS SHOWN, THE CONTRACTOR/ OWNER MUST NOTIFY D.R.E. IMMEDIATELY. FINAL APPROVED C.B.R. TEST RESULTS SUPERSEDE ALL DIMENSIONS SHOWN HERE.

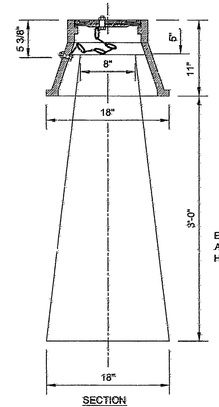
B C-20 TYPICAL PAVEMENT DETAIL (52' ROW)
SCALE: NTS



MONUMENT BOX



BOX COVER

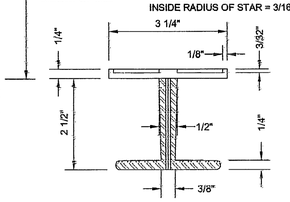


SECTION

NO FORMS REQUIRED.
3000 PSI CONCRETE TO BE POURED INTO PLACE.

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

OUTSIDE RADIUS OF STAR = 3/4"
INSIDE RADIUS OF STAR = 3/16"



BRONZE MONUMENT CAP

D C-20 CITY SURVEY MONUMENT
SCALE: NTS

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BY: _____
DATE: 3/8/07

Release Dates:
Revisions:
-
-
-

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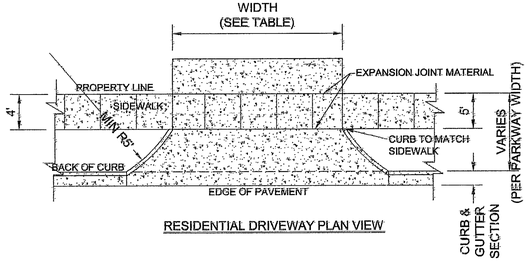
3/8/07
STATE OF TEXAS
S.B. MASOUD
70774
LICENSED PROFESSIONAL ENGINEER



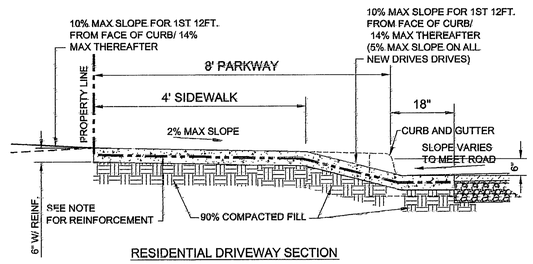
RESIDENTIAL DRIVEWAY PLAN VIEW

NOTE:
USE ONLY 1/2" APPROVED EXPANSION JOINT MATERIAL

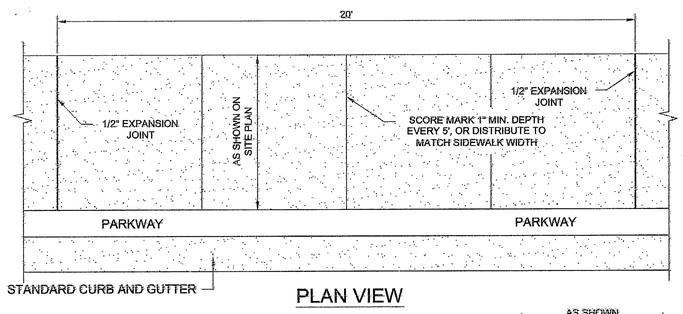
DRIVEWAY WIDTH	MIN	MAX
RESIDENTIAL	12'	24'

RESIDENTIAL REINFORCEMENT REQUIREMENTS:
6" CONC. WITHOUT 6x6/6x6 WWF
4" CONC. WITH 6x6/10x10 WWF

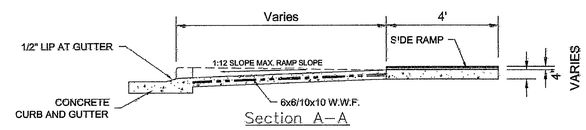
C C-20 RESIDENTIAL DRIVEWAY DETAIL
SCALE: NTS



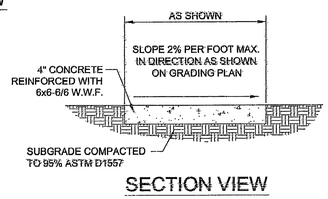
RESIDENTIAL DRIVEWAY SECTION



PLAN VIEW



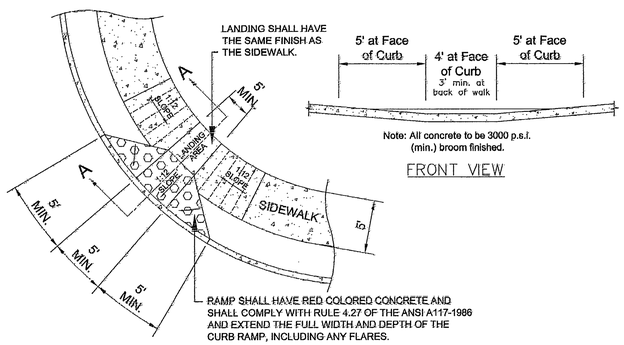
Section A–A



SECTION VIEW

SIDEWALK NOTES:
1. CONCRETE SIDEWALK SHALL BE 3,000 P.S.I.
2. DUMMY JOINTS REQUIRED AT 5' O.C.
3. EXPANSION JOINTS SHALL BE AT 20' O.C. MAXIMUM, USE 1/2" PREMOLDED BITUMINOUS EXPANSION JOINTS (AASHTO M-33)
4. EXPANSION JOINT FILLER SHALL BE PLACED WHEREVER SIDEWALK ABUTS ROCK OR MASONRY STRUCTURES SUCH AS CURBS OR BUILDINGS.
5. SUBGRADE TO BE COMPACTED TO 95% ASTM D1557.

E C-20 TYPICAL SIDEWALK DETAIL
SCALE: NTS



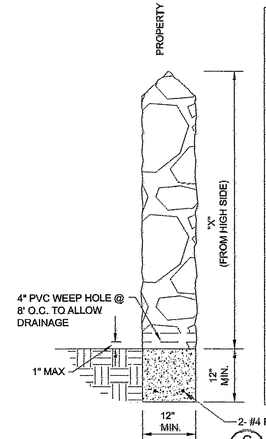
Note: All concrete to be 3000 p.s.i. (min.) broom finished.

FRONT VIEW

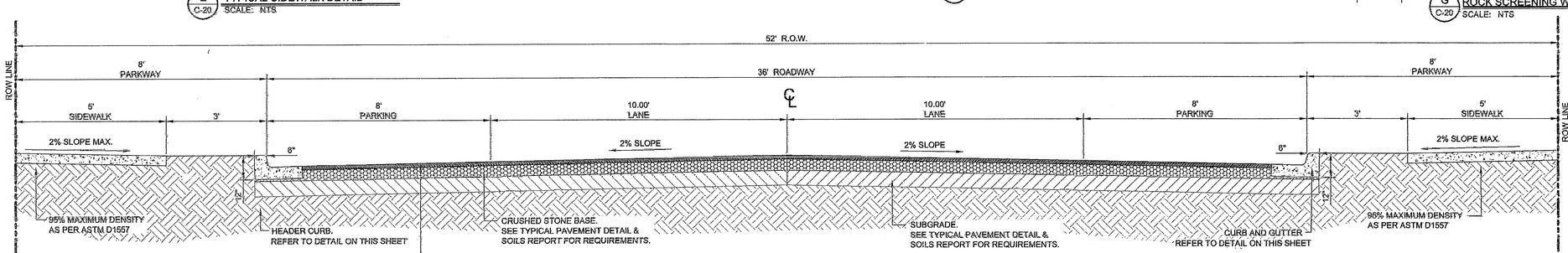
F C-20 HANDICAP RAMP DETAIL
SCALE: NTS

ROCKWALL NOTES
1. STONE FOR THE ROCKWALL SHALL BE AS NEARLY UNIFORM IN SECTIONS AS POSSIBLE. THE STONE SHALL BE DENSE AND RESISTANT OF AIR AND WATER.
2. MORTAR MUST BE TYPE "S" 1800 P.S.I. AS PER ASTM C270
3. MASONRY WALLS OVER 6 FEET IN HEIGHT AND THOSE USED FOR EARTH RETENTION OVER TWO FEET MUST BE DESIGNED AS STRUCTURAL WALLS BY A STRUCTURAL ENGINEER.
4. WALLS ADJACENT TO PONDING AREA OR DRAINAGE DITCHES MAY BE CONSTRUCTED OF BRICK OR CINDER BLOCK AND SHALL NOT BE LESS THAN SIX FEET HIGH.
5. ROCKWALL MORTAR JOINTS MUST NOT EXCEED TWO INCHES.
6. PROVIDE ONE INCH EXPANSION JOINTS AT EVERY 100 FEET.
7. ALL STONE SHALL BE THOROUGHLY SOAKED BEFORE BEING PLACED.
8. ALL STONE FOR ROCKWALLS SHALL BE FRACTURED QUARRIED ROCK, NO RIVER ROCK SHALL BE ALLOWED.
9. CONCRETE F(C)= 3,000 PSI @ 28 DAYS.
10. REINFORCING STEEL SHALL BE ASTM 615 GRADE 40, F(Y)= 40 KSI.
11. WALL FOOTING SHALL BE ON COMPACTED OR FIRM UNDISTURBED GROUND. DRE RECOMMENDS THE OWNER/CONTRACTOR OBTAIN A PROPER SOILS REPORT PRIOR TO THE COMMENCEMENT OF CONSTRUCTION TO ASSURE THAT THE SOIL HAS SUFFICIENT BEARING CAPACITY FOR THE ROCK WALL AND FOUNDATION.

"X"
1. 6" HIGH @ DRAINAGE AND BASINS.



G C-20 ROCK SCREENING WALL DETAIL
SCALE: NTS



H C-20 MODIFIED RESIDENTIAL SUBCOLLECTOR STREET
SCALE: 1" = 2'-0"

NOTES:
1. STREETS TO BE MAINTAINED BY CITY.
2. PRIME COAT TO BE 0.25 GALLON PER SQUARE YARD. (MIN. COVERAGE)
3. FINAL PAVEMENT DESIGN TO BE APPROVED BY CITY ENGINEERING BASED ON C.B.R. TEST RESULTS.
4. WHERE SIDEWALKS ARE NOT REQUIRED OR ARE PERMITTED TO BE LOCATED ADJACENT TO AND PARALLEL WITH THE CURBLINE, THE TOTAL STREET RIGHT-OF-WAY SHALL BE REDUCED BY DEDUCTING 3'-6" FROM THE PARKWAY ON EACH AFFECTED SIDE OF THE LOCAL STREET.

Del Rio Engineering, Inc.
P.O. Box 220251 El Paso, Texas 79913 915/833-2400

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TYPICAL DETAILS
FALCON HEIGHTS SUBDIVISION
PARCEL 1: A PORTION O F TRACTS 1D, 2D, 3D AND 4D
FIRST SUPPLEMENTAL MAP OF PARKLAND ADDITION
CITY OF EL PASO, EL PASO COUNTY TX.

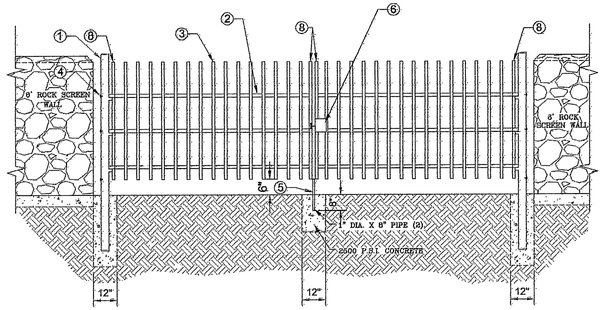
Project #: J05-093	Design By: AFJ	
Plot Date: 3/07/07	Drawn By: JM	
SHEET: C-20	Scale: AS NOTED	

600757

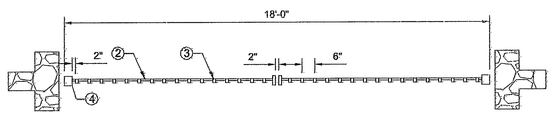
LAYOUT: C-20 TYPICAL DETAILS

FILE: Z:\J05-WORK DIRECTORY\J05-093 FALCON HEIGHTS SUBDIVISION (QUAIL SUB)\dwg\LAs Built\s CIVIL 110705\J05-093 C20-TYPICAL DETAILS.dwg

LAYOUT: C-20 TYPICAL DETAILS



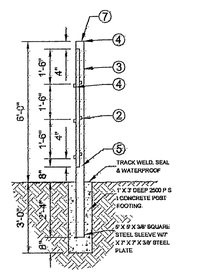
GATE ELEVATION



GATE PLAN

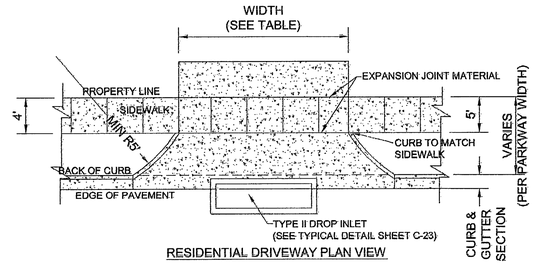
NOTES:

1) 3" X 3" X 3/ 16" SQUARE STEEL TUBING.
2) 2" X 1" X 14 GA. RECTANGULAR STEEL TUBING.
3) 1 1/ 2" X 1/2" X 16 GA. RECATNGULAR STEEL TUBING.
4) BOLT HOOK AND STRAP HINGE
5) CANE BOLT LATCH W/KEEPUP. 6" X 16" LONG (2 REQUIRED)
6) DOUBLE GATE HEAVY DUTY INDUSTRIAM LATCH W/ PAD LOCK
7) FLAT TOP POLYVINYL CAP
8) 2" X 1" 10 GA. RECT. STL. TUBING



GATE SECTION

A / C-21 WROUGHT IRON GATE DETAIL
SCALE: NTS



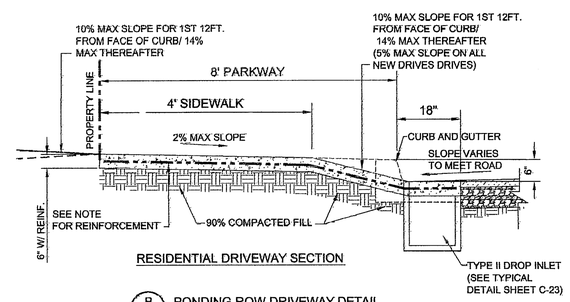
RESIDENTIAL DRIVEWAY PLAN VIEW

NOTE:

USE ONLY 1/2" APPROVED EXPANSION JOINT MATERIAL

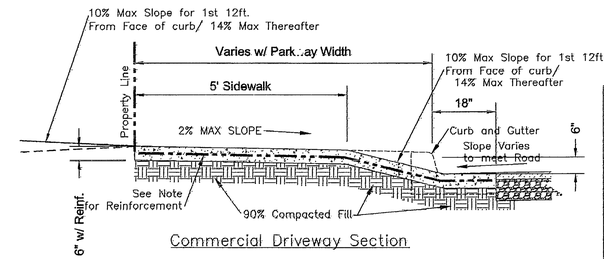
DRIVEWAY WIDTH	MIN	MAX
RESIDENTIAL	12'	24'

RESIDENTIAL REINFORCEMENT REQUIREMENTS:
6" CONC. WITHOUT 6x6/6x6 WWF
4" CONC. WITH 6x6/10x10 WWF

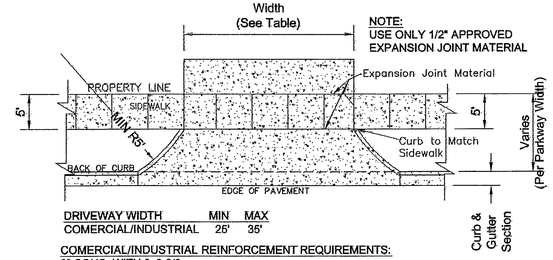


RESIDENTIAL DRIVEWAY SECTION

B / C-21 PONDING ROW DRIVEWAY DETAIL
SCALE: NTS



Commercial Driveway Section



NOTE:
USE ONLY 1/2" APPROVED EXPANSION JOINT MATERIAL

DRIVEWAY WIDTH	MIN	MAX
COMERCIAL/INDUSTRIAL	25'	35'

COMERCIAL/INDUSTRIAL REINFORCEMENT REQUIREMENTS:
6" CONC. WITH 6x6-6/6

C / C-21 COMMERCIAL DRIVEWAY DETAIL
SCALE: NTS

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BY:

DATE: 3/6/07

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3/8/07
STATE OF TEXAS
S.B. MASOUD
70774
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TYPICAL DETAILS

FALCON HEIGHTS SUBDIVISION
PARCEL 1; A PORTION OF TRACTS 1D, 2D, 3D AND 4D
FIRST SUPPLEMENTAL MAP OF PARKLAND ADDITION
CITY OF EL PASO, EL PASO COUNTY TX.

Design By: AFJ
Drawn By: JM
Project #: J05-093
Plot Date: 3/07/07
Scale: AS NOTED
SHEET: C-21

RETAINING WALL STABILITY ANALYSIS

CALCULATIONS

2.00 FOOT RETAINING WALL

Variables:

H=	2.00	(RETAINING HEIGHT) FT
B=	1.5	(BASE WIDTH) FT
SCREEN WALL HEIGHT=	6	FT
W=	1	(BASE HEIGHT) FT
F=	0	(BACKFILL HEIGHT) FT
K=	0	(KEY DEPTH) FT
Theta=	30	(Angle of Pressure) DEG
Coefficient of friction C(f)=	0.45	lb/ft2/ft

TABLE:

C(f)= 0.5	Course-grained soil
C(f) = 0.45	Mixed-grained soil
C(f) = 0.4	Fine-grained soil

Angle of friction A(f) =	32	deg
Lateral earth pressure K(a) =	0.31	lb/ft2/ft

TABLE:

K(a) = 0.25 to 0.50 for cohesionless soil	
K(a) = 0.10 for cohesive soil	

Passive earth pressure K(p) = 3.3 lb/ft2/ft Kp=tan2(45+Af/2)

TABLE:

K(p) = 3 to 6 for cohesionless soil	
K(p) = 2 for cohesive soil	

Unit weights:

Sandy soil:	110.0	pcf
Rock:	135.0	pcf
Concrete:	145.0	pcf

Permsumptive safe bearing capacity of supporting soils = 2,500 PSF

Calculation:

Lateral pressure:	Pa =	153.5	lb/LF	Pa=1/2 Ka*W* H^2
Vertical pressure:	Pv =	76.7	lb/LF	
Horizontal pressure:	Ph =	132.9	lb/LF	
Passive pressure:	Pp =	341.37	lb/LF	Pp= 1/2(Kp*W*D^2 + 2*cf*100*Kp^.5*D

Vertical Loads:

	lb/liner ft	arm	Mo
W1 =	55.00	1.33	73.33
W2 =	67.50	1.17	78.75
W3 =	1,080.00	0.5	540.00
W4 =	217.50	0.75	163.13
W(Total) =	1,420.00		855.21

Overturning Moment
Mo = 132.89 ft-#

Resisting Moment
Mr = 970.30 ft-#
e = 0.19 B/6= 0.2500
Ixx= 0.28

This is acceptable with adequate safety factors.

Foundation pressures
Sum M at heel= Sum Mr-Sum Mo= 837.40 ft-lb/ft
Sum V = Wtotal + Pv= 1,496.73 ft-lb/ft
d= Sum M/ Sum V= 0.56 ft
e= 0.19 ft

Soil pressure(qmax)
qtoe(max)= 1758.19 lb/sqft
qheel(min)= 237.44 lb/sqft

qmax qmin

Factor of safety against overturning = Mr/Mo = 7.30 >2 OK
Factor of safety against sliding =
(Cf *(Wtotal+Pv)+C*B)+Pp / Ph = 7.64 >1.5 OK Assume Cohesion=0

RETAINING WALL STABILITY ANALYSIS

CALCULATIONS

4.00 FOOT RETAINING WALL

Variables:

H=	4.00	(RETAINING HEIGHT) FT
B=	2.5	(BASE WIDTH) FT
SCREEN WALL HEIGHT=	6	FT
W=	1	(BASE HEIGHT) FT
F=	1	(BACKFILL HEIGHT) FT
K=	0	(KEY DEPTH) FT
Theta=	30	(Angle of Pressure) DEG
Coefficient of friction C(f)=	0.45	lb/ft2/ft

TABLE:

C(f)= 0.5	Course-grained soil
C(f) = 0.45	Mixed-grained soil
C(f) = 0.4	Fine-grained soil

Angle of friction A(f) =	32	deg
Lateral earth pressure K(a) =	0.31	lb/ft2/ft

TABLE:

K(a) = 0.25 to 0.50 for cohesionless soil	
K(a) = 0.10 for cohesive soil	

Passive earth pressure K(p) = 3.3 lb/ft2/ft Kp=tan2(45+Af/2)

TABLE:

K(p) = 3 to 6 for cohesionless soil	
K(p) = 2 for cohesive soil	

Unit weights:

Sandy soil:	110.0	pcf
Rock:	135.0	pcf
Concrete:	145.0	pcf

Permsumptive safe bearing capacity of supporting soils = 2,500 PSF

Calculation:

Lateral pressure:	Pa =	613.9	lb/LF	Pa=1/2 Ka*W* H^2
Vertical pressure:	Pv =	306.9	lb/LF	
Horizontal pressure:	Ph =	531.6	lb/LF	
Passive pressure:	Pp =	1040.74	lb/LF	Pp= 1/2(Kp*W*D^2 + 2*cf*100*Kp^.5*D

Vertical Loads:

	lb/liner ft	arm	Mo
W1 =	330.00	2.00	660.00
W2 =	405.00	1.50	607.50
W3 =	1,350.00	0.5	675.00
W4 =	362.50	1.25	453.13
W(Total) =	2,447.50		2,395.63

Overturning Moment
Mo = 1,063.13 ft-#

Resisting Moment
Mr = 3,162.88 ft-#
e = 0.49 B/6= 0.4167
Ixx= 1.30

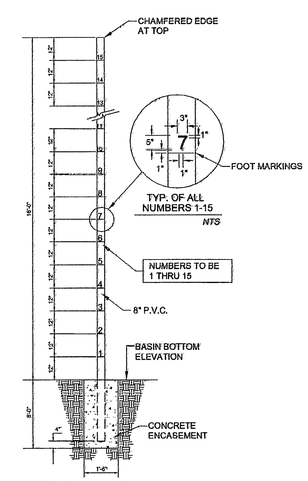
This is acceptable with adequate safety factors.

Foundation pressures
Sum M at heel= Sum Mr-Sum Mo= 2,099.74 ft-lb/ft
Sum V = Wtotal + Pv= 2,754.40 ft-lb/ft
d= Sum M/ Sum V= 0.76 ft
e= 0.49 ft

Soil pressure(qmax)
qtoe(max)= 2391.29 lb/sqft
qheel(min)= -187.77 lb/sqft

qmax qmin

Factor of safety against overturning = Mr/Mo = 2.98 >2 OK
Factor of safety against sliding =
(Cf *(Wtotal+Pv)+C*B)+Pp / Ph = 4.29 >1.5 OK Assume Cohesion=0



NOTES:

1.- NUMBERS TO APPEAR ON 4 SIDES OF POLE
2.- WATER DEPTH POLES SHALL BE PAINTED WHITE WITH NUMBERS AND FOOT MARKINGS PAINTED RED.

D / C-21 DEPTH GAUGE
Scale: NTS

RETAINING WALL STABILITY ANALYSIS

CALCULATIONS

5.00 FOOT RETAINING WALL

Variables:

H=	5.00	(RETAINING HEIGHT) FT
B=	3.5	(BASE WIDTH) FT
SCREEN WALL HEIGHT=	6	FT
W=	1	(BASE HEIGHT) FT
F=	1	(BACKFILL HEIGHT) FT
K=	1	(KEY DEPTH) FT
Theta=	30	(Angle of Pressure) DEG
Coefficient of friction C(f)=	0.45	lb/ft2/ft

TABLE:

C(f)= 0.5	Course-grained soil
C(f) = 0.45	Mixed-grained soil
C(f) = 0.4	Fine-grained soil

Angle of friction A(f) =	32	deg
Lateral earth pressure K(a) =	0.31	lb/ft2/ft

TABLE:

K(a) = 0.25 to 0.50 for cohesionless soil	
K(a) = 0.10 for cohesive soil	

Passive earth pressure K(p) = 3.3 lb/ft2/ft Kp=tan2(45+Af/2)

TABLE:

K(p) = 3 to 6 for cohesionless soil	
K(p) = 2 for cohesive soil	

Unit weights:

Sandy soil:	110.0	pcf
Rock:	135.0	pcf
Concrete:	145.0	pcf

Permsumptive safe bearing capacity of supporting soils = 2,500 PSF

Formulas:

Vertical Loads (Vi) = Area X unit weight
Lateral pressure (Pa) = 1/2 Kh*W* H^2 (Coulomb's active force)
Overturning moment (Mo) = Ph (H/3)-----around point "A"
Resisting moment (Mr) = vertical loads X moment arm around point "A"
X = Mr - Mo / W total
Soil pressure= Wt / B (1+6e/B)
* Factor of safety against overturning > 2 = Mr/Mo
* Factor of safety against sliding > 1.5 = (Rf+Pp)/Ph

Calculation:

Lateral pressure:	Pa =	835.5	lb/LF	Pa=1/2 Ka*W* H^2
Vertical pressure:	Pv =	417.7	lb/LF	
Horizontal pressure:	Ph =	723.5	lb/LF	
Passive pressure:	Pp =	2098.11	lb/LF	Pp= 1/2(Kp*W*D^2 + 2*cf*100*Kp^.5*D

Vertical Loads:

	lb/liner ft	arm	Mo
W1 =	687.50	2.67	1,833.33
W2 =	843.75	1.83	1,546.88
W3 =	1,485.00	0.5	742.50
W4 =	652.50	1.75	1,141.88
W(Total) =	3,668.75		5,264.58

Overturning Moment
Mo = 1,688.22 ft-#

Resisting Moment
Mr = 6,726.62 ft-#
e = 0.52 B/6= 0.5833
Ixx= 3.57

This is acceptable with adequate safety factors.

Foundation pressures
Sum M at heel= Sum Mr-Sum Mo= 5,038.41 ft-lb/ft
Sum V = Wtotal + Pv= 4,086.48 ft-lb/ft
d= Sum M/ Sum V= 1.23 ft
e= 0.52 ft

Soil pressure(qmax)
qtoe(max)= 2202.47 lb/sqft
qheel(min)= 132.66 lb/sqft

qmax qmin

Factor of safety against overturning = Mr/Mo = 3.98 >2 OK
Factor of safety against sliding =
(Cf *(Wtotal+Pv)+C*B)+Pp / Ph = 5.44 >1.5 OK Assume Cohesion=0

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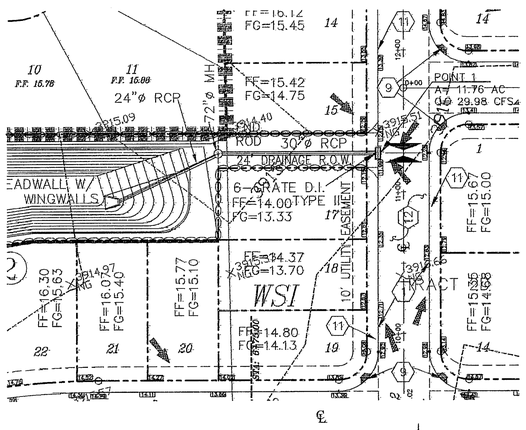
FILE: Z:\J05-WORK DIRECTORY\J05-093 FALCON HEIGHTS SUBDIVISION (QUASI SUB)\dwg\AsBuilts CIVIL 110705\J05-093 C21-TYPICAL DETAILS.dwg

LAYOUT: C-21 STORM SEWER PROFILES

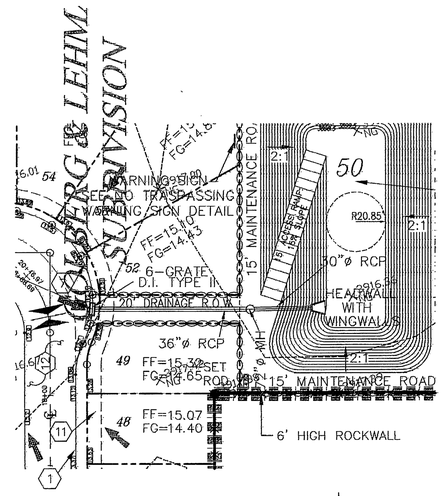


PLAN VIEW

SCALE: 1"=30'

0 30' 60' 90'

0 1" 2" 3"

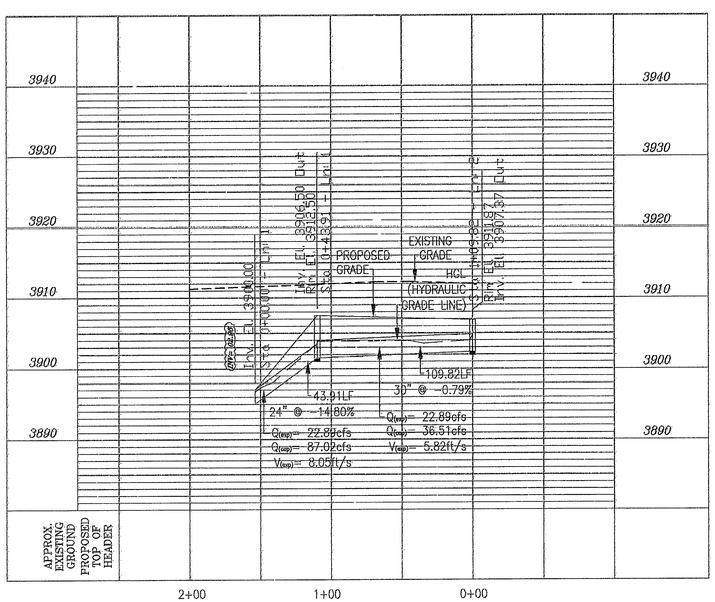


PLAN VIEW

SCALE: 1"=30'

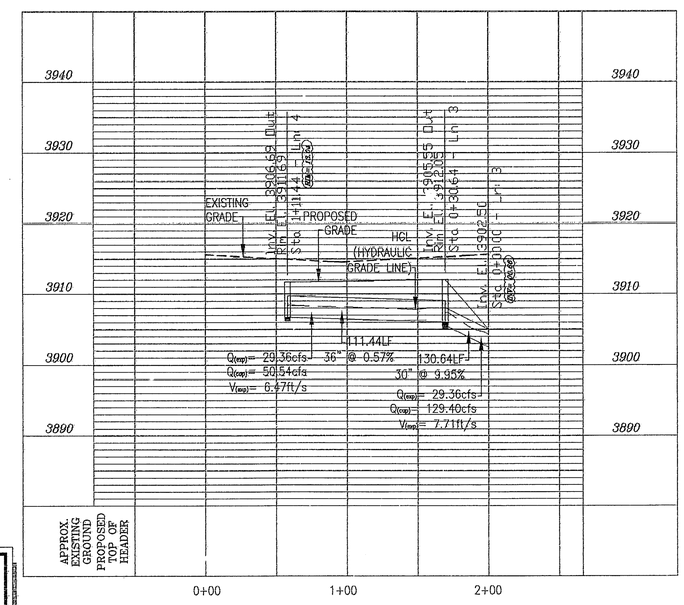
0 30' 60' 90'

0 1" 2" 3"



A STORM SEWER PROFILE

Vertical Scale: 1" = 10'
Horizontal Scale: 1" = 50'



B STORM SEWER PROFILE

Vertical Scale: 1" = 10'
Horizontal Scale: 1" = 50'

LEGEND:
AS-BUILT CONDITION:

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BY: _____

DATE: 3/8/07

PARKLAND

ALBERG & LEHM SUBDIVISION

Release Dates:

Revisions:

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3/8/07
STATE OF TEXAS
S.B. MASOUD
70774
PROFESSIONAL ENGINEER

DRE Del Rio Engineering, Inc.
P.O. Box 220251 El Paso, Texas 79913 915/833-2400

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STORM SEWER PROFILES

FALCON HEIGHTS SUBDIVISION
PARCEL 1: A PORTION O F TRACTS 1D, 2D, 3D AND 4D
FIRST SUPPLEMENTAL MAP OF PARKLAND ADDITION
CITY OF EL PASO, EL PASO COUNTY TX.

Project #: J05-093	Design By: AFJ
Plot Date: 3/07/07	Drawn By: JM
SHEET: C-22	Scale: AS NOTED

600757

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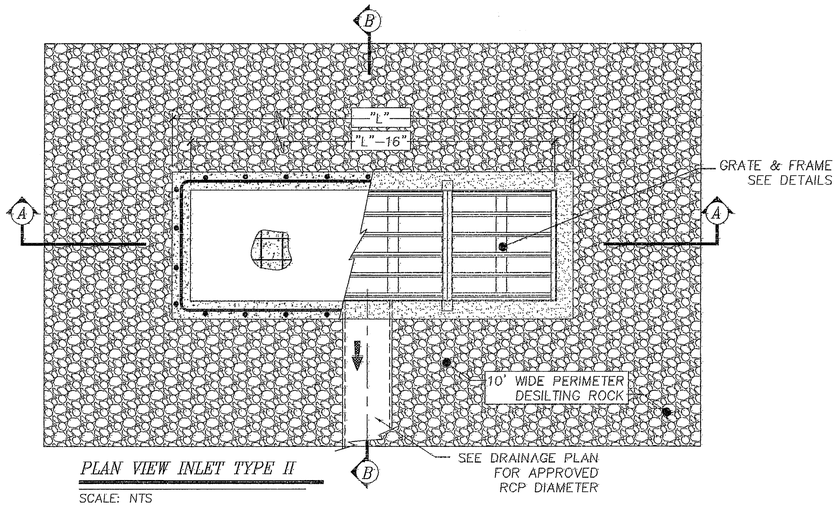
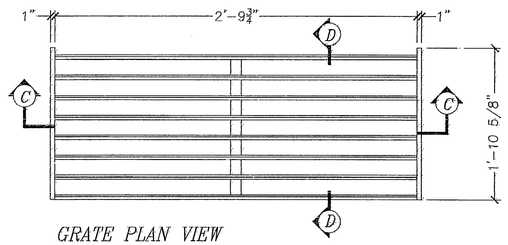


PLAN VIEW INLET TYPE II

SCALE: NTS



GRATE PLAN VIEW

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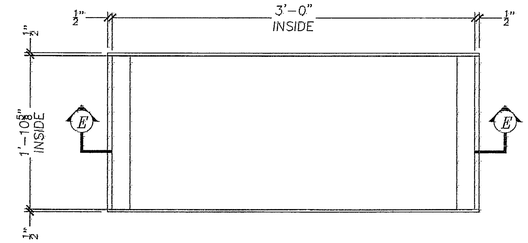

FRAME PLAN VIEW

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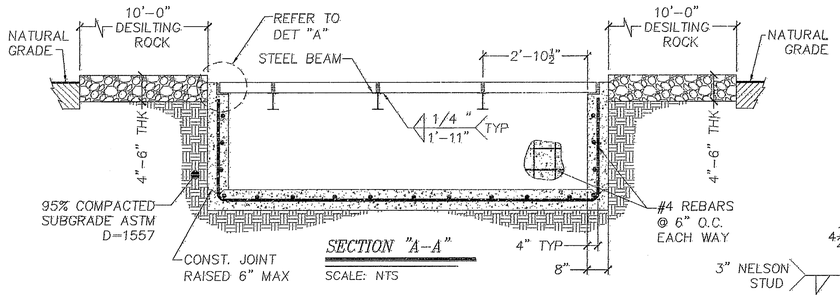
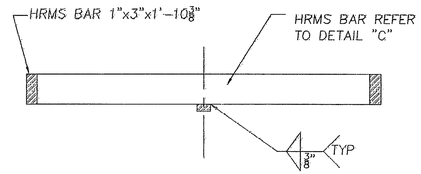


SECTION "A-A"

SCALE: NTS



SECTION "C-C"

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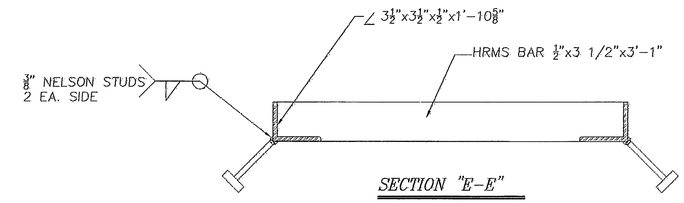

SECTION "E-E"

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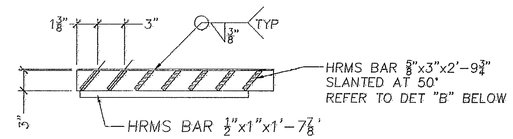

SECTION "D-D"

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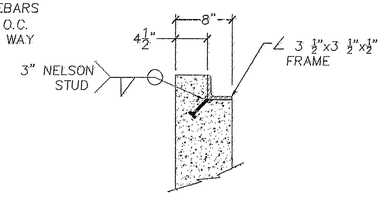

DETAIL "A"

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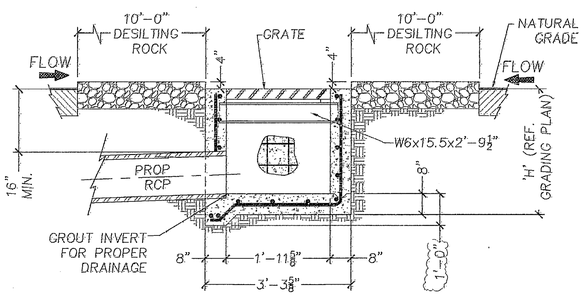
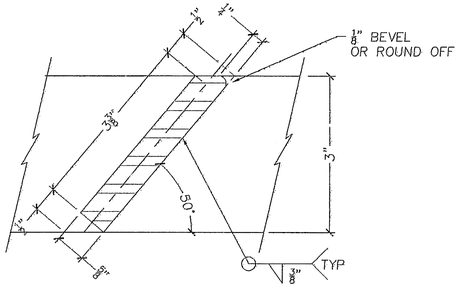
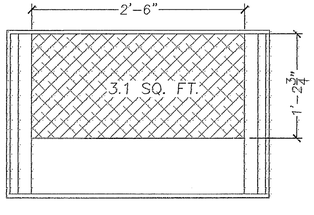


SECTION "B-B"



DETAIL "B" (TYP)

SCALE: NTS



DRAIN OPENING PER GRATE

SCALE: NTS

NO. OF GRATES	"L"	CAPACITY
1	4'-0"	6.96 CFS
2	7'-1"	15.00 CFS
3	10'-2"	23.05 CFS
4	13'-3"	31.09 CFS
5	16'-4"	39.14 CFS
6	19'-3"	--CFS
7	22'-4"	--CFS
8	25'-5"	--CFS
9	28'-6"	--CFS
10	31'-7"	--CFS
11	34'-10"	--CFS

GENERAL NOTES:

1. H = 20' MAXIMUM.
2. CONCRETE TO BE 3,000 PSI MIN. CORE TEST @ 28 DAYS.
3. GRATE TO BE PERPENDICULAR TO TRAFFIC.

NOTES:

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BY: _____

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TYPICAL STORM SEWER DETAILS

FALCON HEIGHTS SUBDIVISION
PARCEL 1: A PORTION O F TRACTS 1D, 2D, 3D AND 4D
FIRST SUPPLEMENTAL MAP OF PARKLAND ADDITION
CITY OF EL PASO, EL PASO COUNTY TX.

Project #: J05-093	Design By: AFJ
Plot Date: 3/07/07	Drawn By: JM
SHEET: C-23	Scale: AS NOTED

LAYOUT: STORM SEWRE DET

FILE: Z:□J05-WORK DIRECTORY□J05-093 FALCON HEIGHTS SUBDIVISION (QUALL SUB)□dwg□AsBuilts CIVIL 110705□J05-093 C23-STORM SEWER DETAILS.dwg

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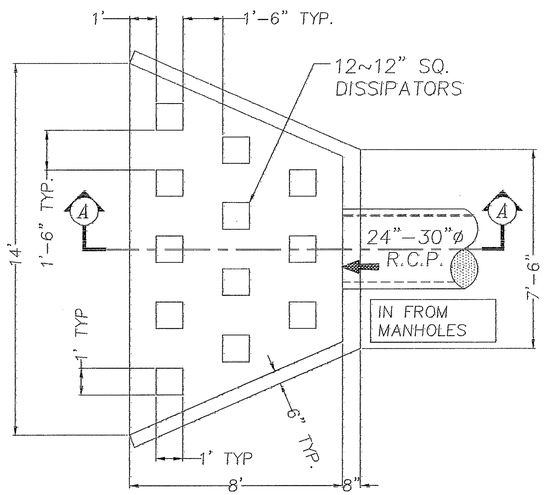
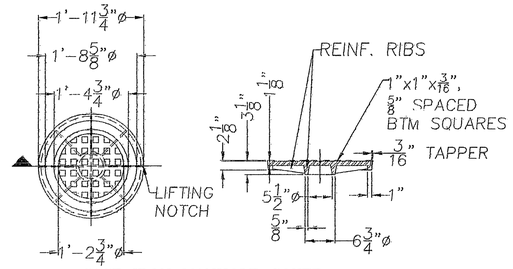


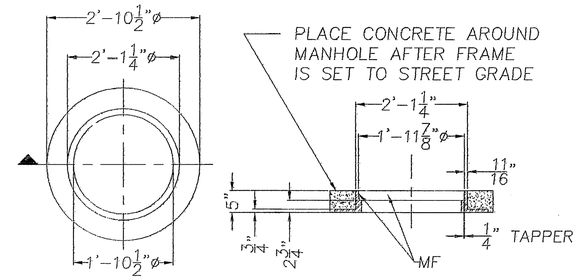
FLUME OUTLET PLAN VIEW

SCALE: NTS



CAST IRON MANHOLE COVER

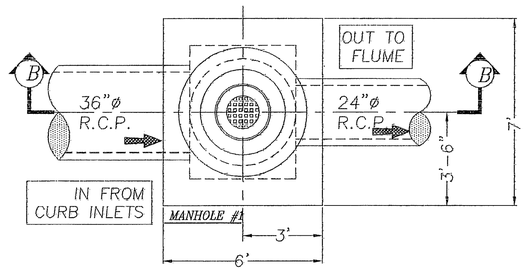
SCALE: NTS



CAST IRON MANHOLE RING

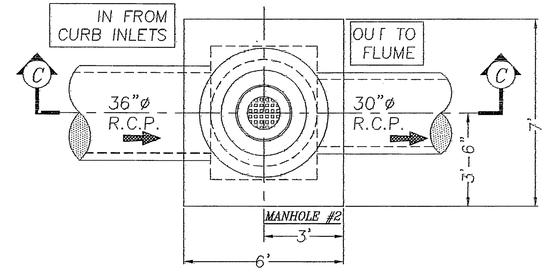
SCALE: NTS

MANHOLE DIMENSIONS			
MH	"J"	"K"	"L"
1	4'-6"	6'-6"	FIELD VERIFY
2	5'-0"	7'-0"	FIELD VERIFY



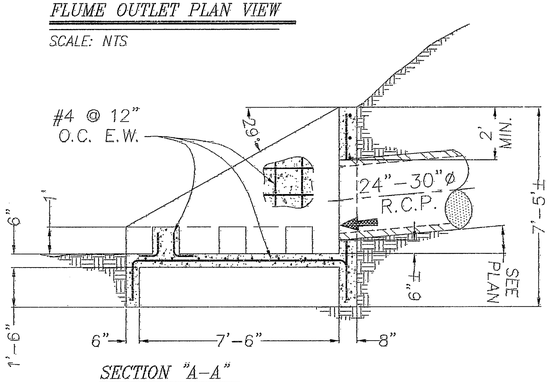
PLAN VIEW MANHOLE

SCALE: NTS



PLAN VIEW MANHOLE

SCALE: NTS



SECTION "A-A"

SCALE: NTS

MANHOLE GENERAL NOTES:

1. IN AREAS OF CONFLICT BETWEEN REINFORCING STEEL BLOCK OUTS, PIPES ANCHOR BOLTS OR OTHER REINFORCING STEEL, THE REINFORCEMENT SHALL BE BENT OR ADJUSTED TO CLEAR AS DIRECTED BY THE ENGINEER.
2. THE RISER, EITHER CAST-IN-PLACE OR CONCRETE PIPE, MAY BE LOCATED IN ANY CORNER.
3. ALL REINFORCING STEEL SHALL BE #4 UNLESS OTHERWISE NOTED.
4. PIPES MAY ENTER ANY OR ALL WALLS. THE MAXIMUM SIZE OF PIPE THAT CAN BE ACCOMMODATED IS 60". MORE THAN ONE PIPE MAY ENTER A SIDE. SUBJECT TO THE MAXIMUM BOX DIMENSION SHOWN. THE CLEAR DISTANCE BETWEEN ADJACENT PIPES SHOULD BE 9" MINIMUM.
5. RING AND COVER SHALL CONFORM TO THE REQUIREMENTS OF AASHTO-306, "STANDARD SPECIFICATION FOR DRAINAGE STRUCTURE CASTINGS" MATERIALS SHALL CONFORM TO ASTM-A48, CLASS 35B FOR GRAY IRON CASTINGS OR ASTM-A536, GRADE 65-45-12 FOR DUCTILE IRON CASTINGS. ALUMINUM ALLOY SHALL CASTINGS SHALL NOT BE PERMITTED.
6. MANHOLE RING MATCHING SURFACES MARKED 'MF' TO BE MACHINE FINISHED OF ANY IRREGULARITIES THAT WOULD PREVENT A SNUG FIT.
7. MANHOLE COVER AND RING CASTING TO BE SMOOTH AND VOID OF AIR HOLES.
8. MANHOLE WIDTHS & LENGTHS WILL BE DETERMINED BY RCP ENTERING THAT WALL. IF A SIZE OF PIPE ENTERING A MANHOLE IS DIFFERENT THAT OF THE OPPOSITE SIDE, THE SUPERIOR PIPE DIAMETER WILL DICTATE THE DESIGN CRITERIA. REFER TO TABLE AND/OR CONSULT ENGINEER.

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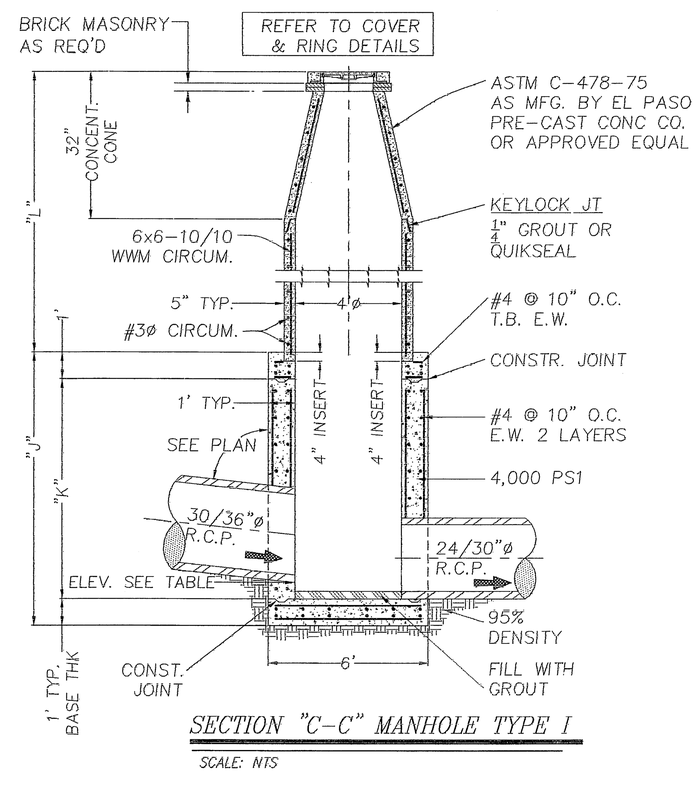
BY: _____

DATE: 3/8/07



SECTION "C-C" MANHOLE TYPE I

SCALE: NTS

600757

LAYOUT: MANHOLE DETAILS

FILE: Z:\J05-WORK DIRECTORY\J05-093 FALCON HEIGHTS SUBDIVISION (QUAIL SUB)\dwg\DA\dbjulis CIVIL 110705\J05-093 C24-MANHOLE DETAILS.dwg

Release Dates:
12-13-05
Revisions:
-
12-13-05

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TYPICAL MANHOLE DETAILS

FALCON HEIGHTS SUBDIVISION

PARCEL 1: A PORTION O F TRACTS 1D, 2D, 3D AND 4D FIRST SUPPLEMENTAL MAP OF PARKLAND ADDITION CITY OF EL PASO, EL PASO COUNTY TX.

Project #: J05-093	Design By: AFJ
Plot Date: 3/07/07	Drawn By: JM
SHEET: C-24	Scale: AS NOTED