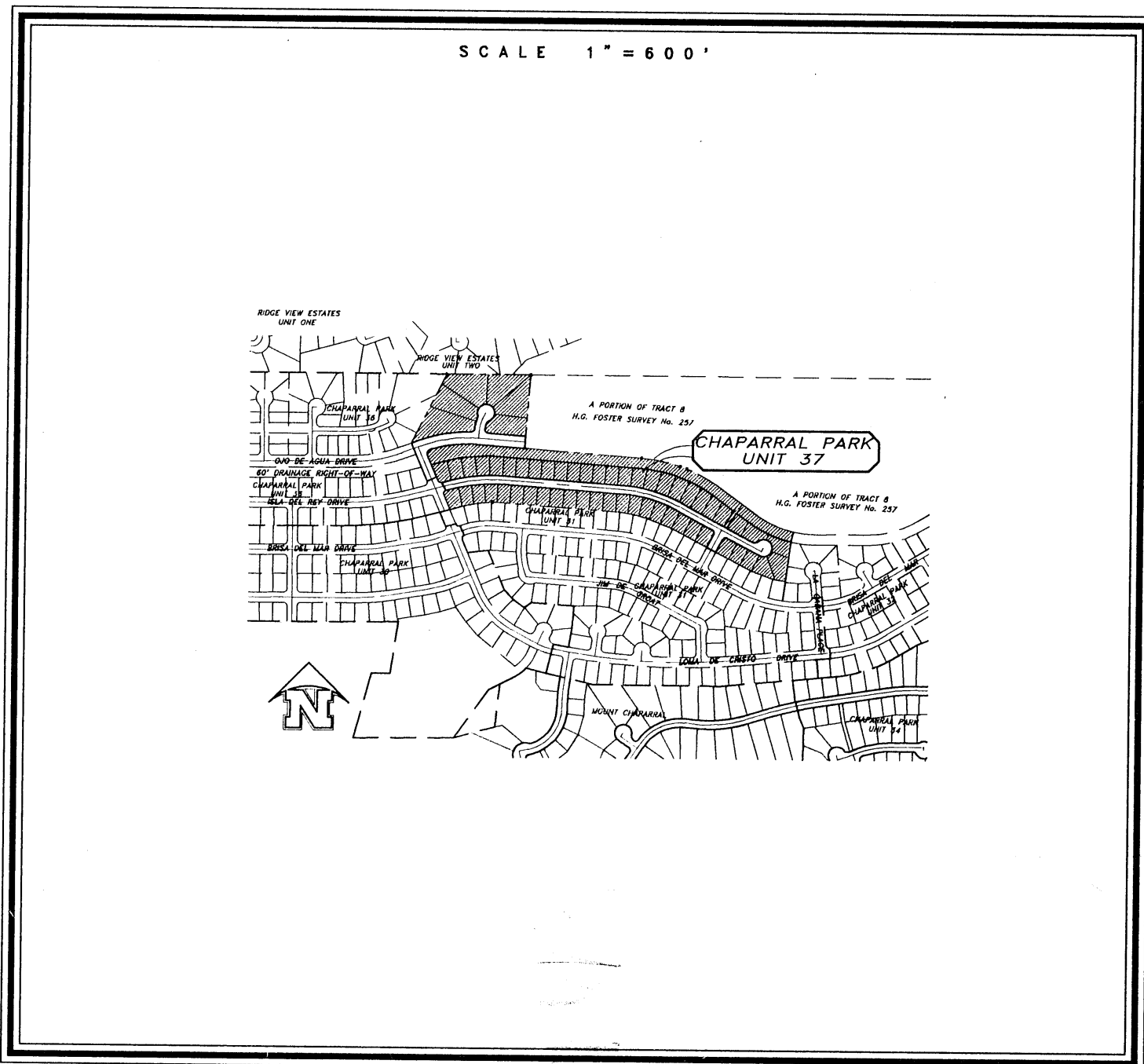


CHAPARRAL PARK UNIT 37

SUBDIVISION IMPROVEMENTS

LOCATION MAP



INDEX OF SHEETS

SHEET TITLE	SHEET NO.
COVER SHEET	1
PLAT	2
GRADING PLAN	3
GRADING DETAILS	4
DRAINAGE PLAN	5
DETAILS CONCRETE CULVERT	6
DETAILS STORM SEWER SYSTEMS	7
DETAILS CURB TO CURB DROP INLET AND STORM SEWER HEADWALLS	8
DETAILS FOUR GRATE DROP INLET	9
DETAILS MANHOLES	10
DETAILS PRIVATE DRAINAGE EASEMENT AND DESILTING BASINS	11
DRAINAGE CHANNEL PLAN AND PROFILE	12
DRAINAGE CHANNEL PLAN AND PROFILE AND CONSTRUCTION DETAILS	13
STREET PLAN AND PROFILE ISLA DEL REY DRIVE FROM BEGINNING STATION 24+61.23 TO STA. 39+10.57	14
STREET PLAN AND PROFILE ISLA DEL REY DRIVE FROM STA. 39+10.57 TO STA. 45+07.79 AND EL SEGUNDO DRIVE	15
STREET PLAN AND PROFILE OJO DE AGUA DRIVE	16
STREET PLAN AND PROFILE ISLA AZUL COURT AND LOMA DE CRISTO DRIVE	17
TYPICAL DETAILS	18
TYPICAL DETAILS	19
ILLUMINATION PLAN AND DETAILS AND U.S. POSTAL SERVICE NCDU LOCATIONS	20

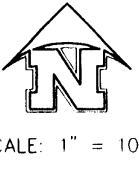
OWNER / DEVELOPER
 HIGHLAND FOUR JOINT VENTURE, JOE G. HANSON, MANAGING PARTNER
 1715 B WESTON BRENT LANE
 EL PASO, TEXAS 79935
 (915) 592-4111

bhp roe and associates
 601 N. Cotton St. Suite 108 El Paso, TX 79902
 (915) 533-1410 FAX: (915) 533-4972
 ENGINEERING/LAND DEVELOPMENT/PLANNING/SURVEYING

[Handwritten signature]

600443

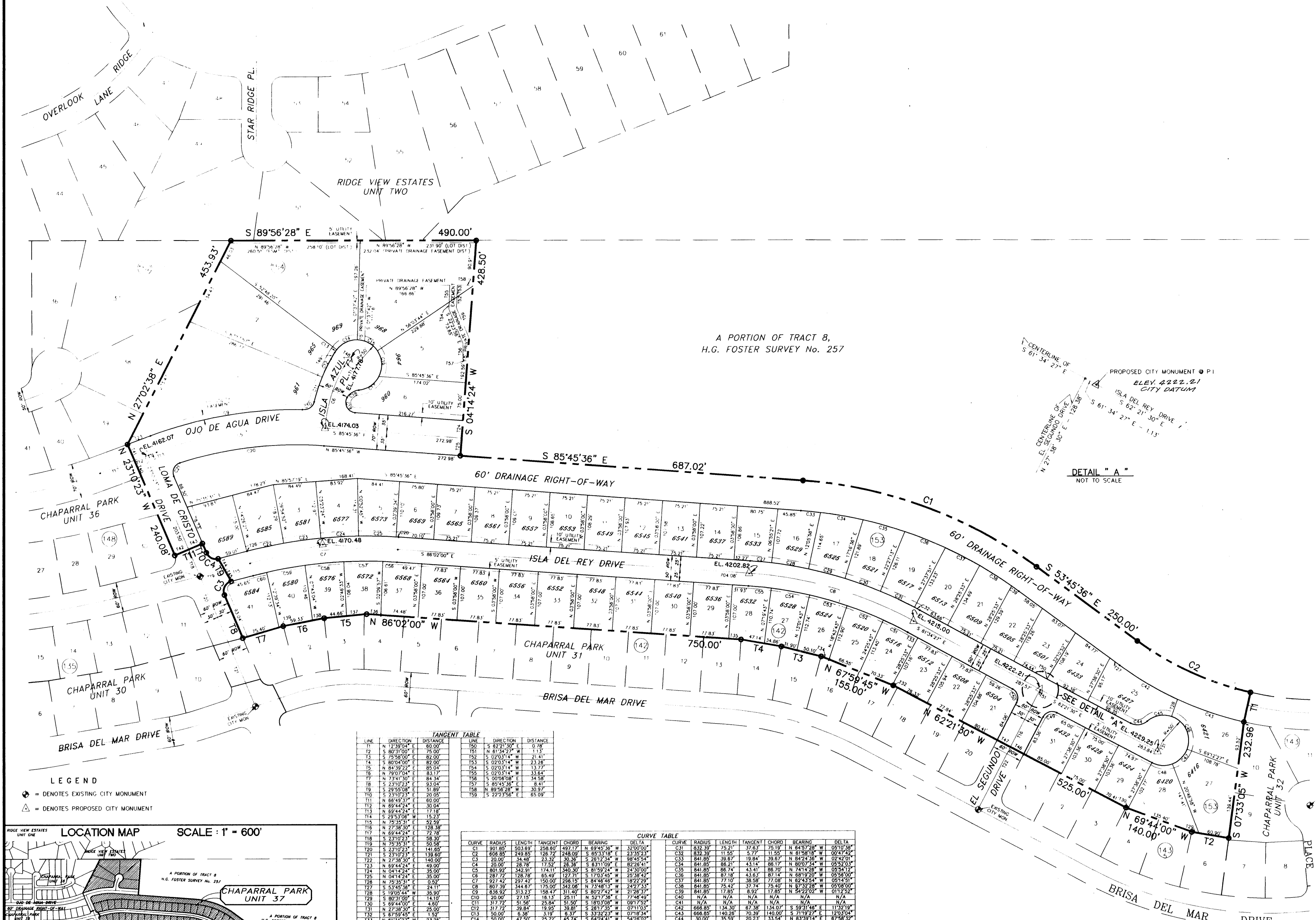
600443



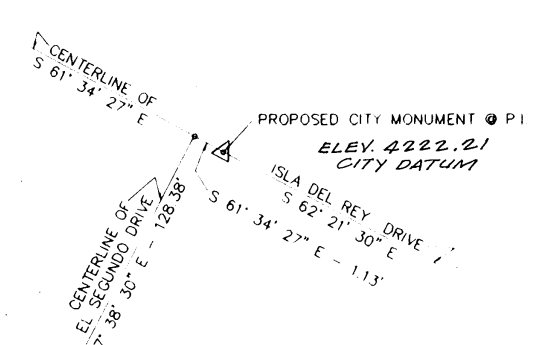
SCALE: 1" = 100'

CHAPARRAL PARK UNIT 37

BEING A PORTION OF TRACT 8, H.G. FOSTER SURVEY No. 257,
CITY OF EL PASO, EL PASO COUNTY, TEXAS
CONTAINING IN ALL
968,509.34 SQUARE FEET OR 22.2343 ACRES MORE OR LESS



A PORTION OF TRACT 8,
H.G. FOSTER SURVEY No. 257



DETAIL "A"
NOT TO SCALE

DEDICATION

STATE OF TEXAS
COUNTY OF EL PASO
HIGHLAND II JOINT VENTURE, OWNERS OF THIS LAND DO HEREBY PRESENT THIS MAP AND DEDICATE IF NOT PREVIOUSLY DEDICATED TO THE USE OF THE PUBLIC: THE STREETS, DRIVES, DRAINAGE RIGHT-OF-WAYS, AND UTILITY EASEMENTS, AS HEREIN Laid DOWN AND DESIGNATED INCLUDING EASEMENTS FOR OVERHEAD OF SERVICE WIRES FOR POLE UTILITIES AND BURIED SERVICE WIRES, CONDUITS AND PIPES FOR UNDERGROUND UTILITIES AND THE RIGHT TO ROADS AND EGRESS FOR SERVICE AND CONSTRUCTION AND THE RIGHT TO TRIM INTERFERING TREES AND SHRUBS.

JOE G. HANSON
JOE G. HANSON, PRESIDENT
JOE HANSON PARTNERS, INC. MANAGING PARTNER
100 W. 14TH ST., SUITE 1000, EL PASO, TEXAS 79901

ACKNOWLEDGEMENT

STATE OF TEXAS
COUNTY OF EL PASO
BEFORE ME, THE UNDERSIGNED AUTHORITY, ON THIS DAY PERSONALLY APPEARED JOE G. HANSON, PRESIDENT OF JOE HANSON PARTNERS, INC., 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 THEREIN STATED.
GIVEN UNDER MY HAND AND SEAL THIS 29th DAY OF NOVEMBER, 1995, A.D.
GLORIA PORTUGAL
NOTARY PUBLIC IN AND FOR EL PASO COUNTY, TEXAS
MY COMMISSION EXPIRES JAN. 16, 1996

CITY PLAN COMMISSION

THIS SUBDIVISION IS HEREBY APPROVED AS TO THE PLATING AND AS TO THE CONDITIONS OF THE DEDICATION IN ACCORDANCE WITH CHAPTER 212 OF THE LOCAL GOVERNMENT CODE OF TEXAS THIS 29th DAY OF JANUARY, 1995, A.D.
VICTOR R. LOPEZ, AGING SECRETARY
MANNETTE MEANS, CHAIRPERSON
ACCEPTED AND ADOPTED BY THE CITY COUNCIL OF EL PASO THIS 3RD DAY OF OCTOBER, 1995, A.D.
GLORIA T. ALVARADO, ALTERNATE CITY CLERK
LARRY FRANCIS, MAYOR
APPROVED FOR FILING THIS 29th DAY OF NOVEMBER, 1995, A.D.
FERMIN DORADO, CITY ENGINEER

FILING

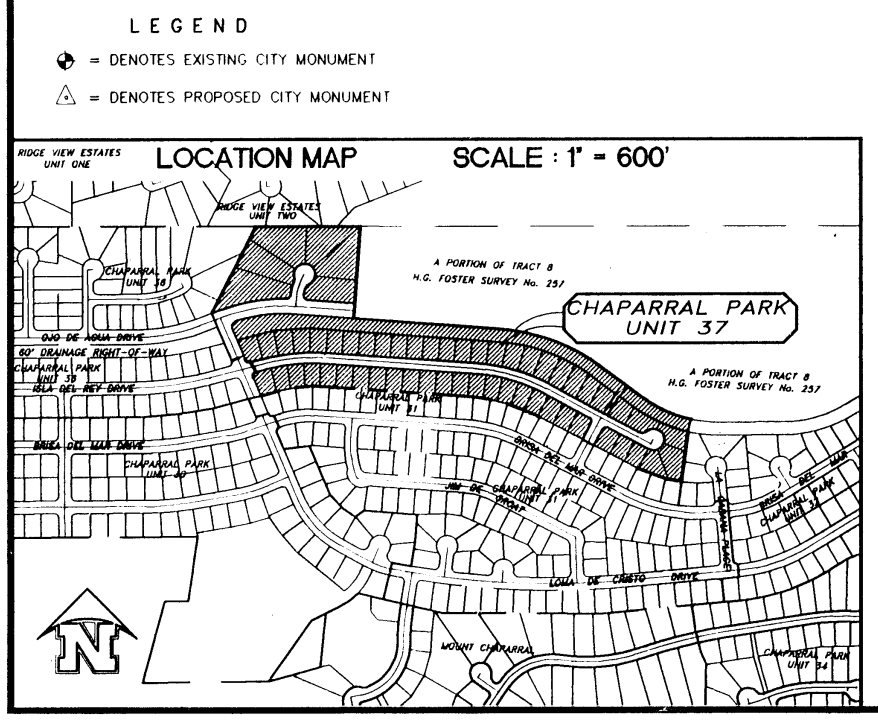
FILED AND RECORDED IN THE OFFICE OF THE COUNTY CLERK OF EL PASO COUNTY, TEXAS THIS 12th DAY OF DECEMBER, 1995, A.D. IN VOLUME 722 OF THE PLAT RECORDS, PAGE 62. FILE NO. 95020044.
HENRIQUEZ JR., COUNTY CLERK
ADRIANA T. FONCE, BY DEPUTY
PREPARED BY AND UNDER THE SUPERVISION OF BRADLEY ROE, REGISTERED PROFESSIONAL ENGINEER NO. 31886, REGISTERED PUBLIC LAND SURVEYOR NO. 2449.
BRADLEY ROE, P.E., R.P.L.S.
"VEHICULAR ACCESS TO THOSE LOTS ABUTTING OJO DE AGUA DRIVE SHALL BE FROM OTHER DEDICATED STREETS ONLY. THE INSTRUMENT ASSURING RELEASE OF ACCESS IS FILED IN THE OFFICE OF THE COUNTY CLERK, DEED AND RECORD SECTION, INSTRUMENT NO. 95020103, BOOK _____, PAGE _____, DATE 12/12, 1995."
RESISTIVE COVENANTS FOR THIS SUBDIVISION ARE ON FILE WITH THE OFFICE OF THE COUNTY CLERK, DEED AND RECORD SECTION, INSTRUMENT NO. 95020102, BOOK _____, PAGE _____, DATE DEC. 7, 1995.

TANGENT TABLE

LINE	INTERSECTION	BEARING	DISTANCE
1	1/2	S 89°56'28" E	490.00'
2	2/2	S 85°45'36" E	687.02'
3	3/2	S 53°45'36" E	280.00'
4	4/2	N 86°02'00" W	730.00'
5	5/2	N 87°38'45" W	155.00'
6	6/2	N 89°44'00" W	140.00'
7	7/2	S 07°33'00" E	232.89'
8	8/2	S 07°33'00" E	232.89'

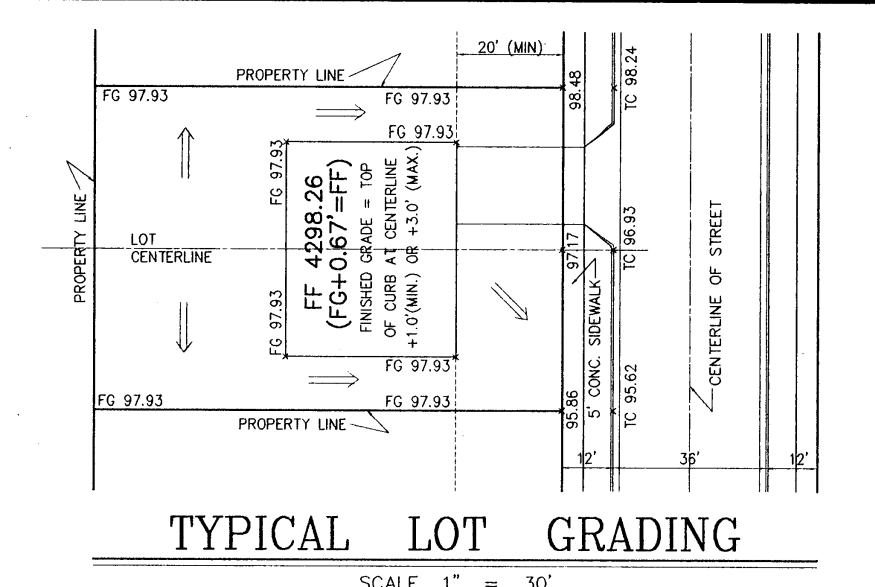
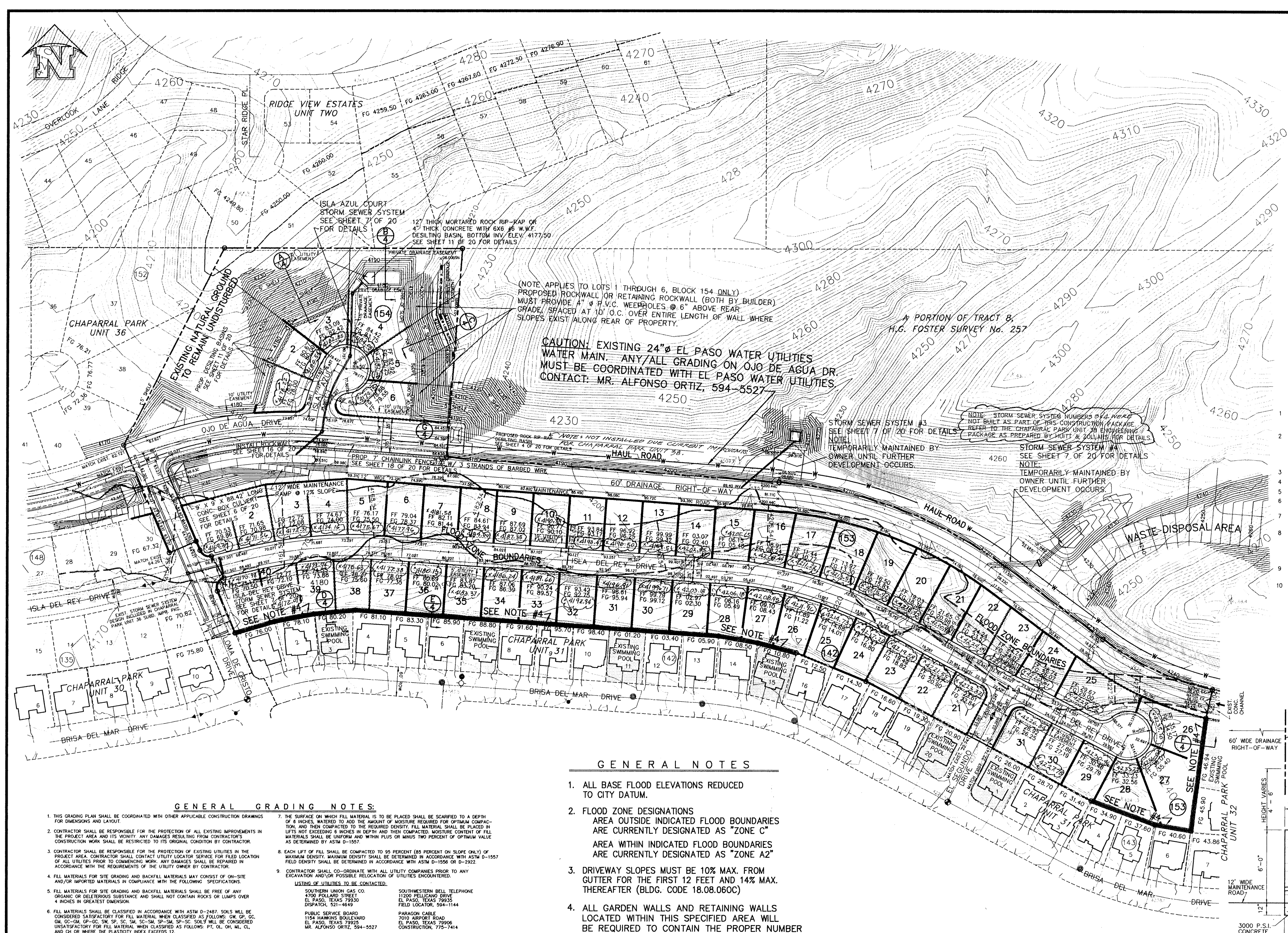
CURVE TABLE

LINE	START	END	BEARING	DISTANCE
1	1/2	2/2	S 89°56'28" E	490.00'
2	2/2	3/2	S 85°45'36" E	687.02'
3	3/2	4/2	S 53°45'36" E	280.00'
4	4/2	5/2	N 86°02'00" W	730.00'
5	5/2	6/2	N 87°38'45" W	155.00'
6	6/2	7/2	N 89°44'00" W	140.00'
7	7/2	8/2	S 07°33'00" E	232.89'
8	8/2	9/2	S 07°33'00" E	232.89'



roe & associates
EL PASO, TEXAS

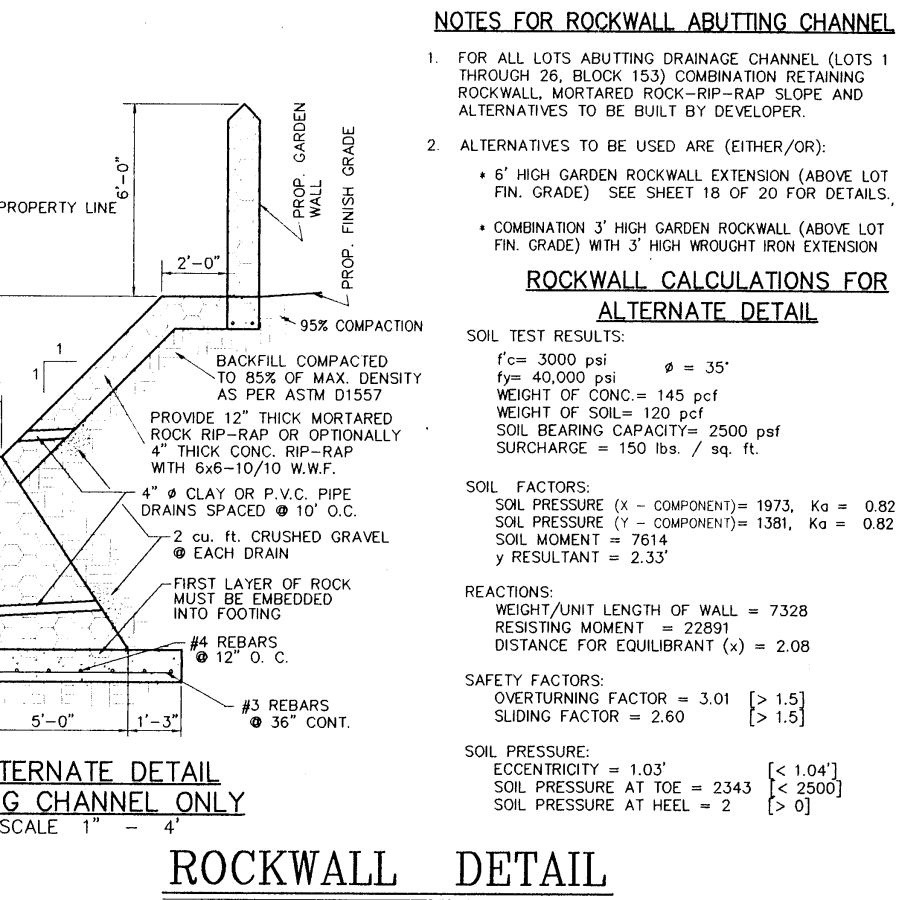
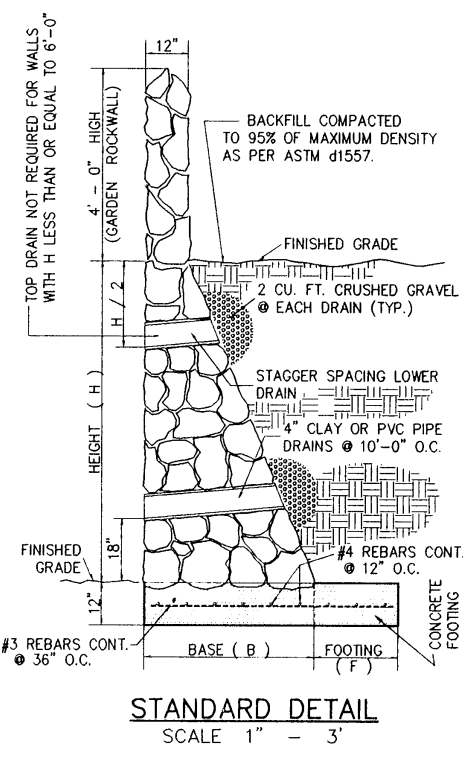
600445



WALL SCHEDULE

HEIGHT (H) (F)	BASE (B) (F)	FOOTING (F)
2' - 0"	1' - 0"	N/A
3' - 0"	2' - 0"	N/A
4' - 0"	2' - 0"	N/A
5' - 0"	2' - 10"	0' - 3"
6' - 0"	3' - 3"	0' - 5"
7' - 0"	3' - 3"	0' - 5"
8' - 0"	4' - 3"	0' - 6"
9' - 0"	4' - 10"	1' - 0"

- GENERAL NOTES**
- NATURAL STONE SHALL BE SOUND AND FREE FROM LOOSE OR FRAGILE INCLUSIONS AND SHALL MEET REQUIRED STRENGTH AND DURABILITY FOR PROPOSED USE.
 - MORTAR SHALL BE ASTM-270 TYPE S PROPORTION BY VOLUME: 1 PART PORTLAND CEMENT, 1 1/2 PARTS SAND, 1 1/2 PARTS MORTAR.
 - CONCRETE F-2500 P.S.I. @ 28 DAYS.
 - REINFORCING STEEL ASTM A630 GRADE 40, F_y 40,000 P.S.I. ALLOWABLE SOIL BEARING PRESSURE - MINIMUM.
 - WALL FOOTING SHALL BEAR ON COMPACTED OR FIRM UNDERLYING GROUND. ELEVATION WILL REQUIRE ADDITIONAL DESIGN.
 - CHANGES IN WALL DIRECTION, WALL HEIGHT OR FOOTING ELEVATION WILL REQUIRE ADDITIONAL DESIGN.
 - BACKFILL MATERIAL SHALL CONSIST OF WELL-DRAINED, CORNER-BRANDED SAND OR FINE SIFT SAND WITH NO CLAY CONTENT. BACKFILL MATERIAL SHALL EXERT A HORIZONTAL FORCE OF AN EQUIVALENT FLUID PRESSURE NOT TO EXCEED 300 P.S.F.
 - SURCHARGE WILL REQUIRE ADDITIONAL DESIGN. YES
 - RETAINING WALL (S) WILL BE REQUIRED WHERE THE GRADE DIFFERENCE BETWEEN THE FINISHED GRADE OF ANY LOT WITHIN THIS SUBDIVISION AND/OR ADJACENT PROPERTY IS TWO (2) FEET OR GREATER. DETAILS MUST BE SUBMITTED FOR REVIEW AND APPROVAL TO BUILDING DEPARTMENT AT THE TIME THE GRADING CONSTRUCTION PLANS ARE SUBMITTED.



ROCKWALL DETAIL

SCALE: AS NOTED

- GENERAL NOTES**
- ALL BASE FLOOD ELEVATIONS REDUCED TO CITY DATUM.
 - FLOOD ZONE DESIGNATIONS AREA OUTSIDE INDICATED FLOOD BOUNDARIES ARE CURRENTLY DESIGNATED AS "ZONE C" AREA WITHIN INDICATED FLOOD BOUNDARIES ARE CURRENTLY DESIGNATED AS "ZONE A2"
 - DRIVEWAY SLOPES MUST BE 10% MAX. FROM CUTTER FOR THE FIRST 12 FEET AND 14% MAX. THEREAFTER (BLDG. CODE 18.08.060C)
 - ALL GARDEN WALLS AND RETAINING WALLS LOCATED WITHIN THIS SPECIFIED AREA WILL BE REQUIRED TO CONTAIN THE PROPER NUMBER OF WEEPHOLES (DRAINS), AND ALSO STRICTLY ADHERE TO CONSTRUCTION METHODS OUTLINED IN THE FOLLOWING DETAILS: FOR GARDEN WALLS SEE SHEET 18 OF 20 FOR RETAINING WALLS SEE SHEET 4 OF 20 (SECTION D)

AS BUILT
AUGUST 3, 1995

- GENERAL GRADING NOTES**
- THE GRADING PLAN SHALL BE COORDINATED WITH OTHER APPLICABLE CONSTRUCTION DRAWINGS FOR DRAINAGES AND LAYOUT.
 - CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL UTILITIES AND STRUCTURES IN THE SUBDIVISION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL UTILITIES AND STRUCTURES IN THE SUBDIVISION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL UTILITIES AND STRUCTURES IN THE SUBDIVISION.
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LEGEND

- PROPOSED GARDEN WALL (GRADE SEPARATION OF LESS THAN 2')
- PROPOSED RETAINING WALL (GRADE SEPARATION OF 2' OR GREATER)
- PROPOSED DRAINAGE HIGH-POINT
- PROPOSED DRAINAGE LOW-POINT
- EXISTING CITY MONUMENT
- PROPOSED CITY MONUMENT

DATE	REVISIONS	BY	BENCHMARK
4/10/96	ADDED NOTE - STORM SEWER SYSTEM FOUR	DLM	BENCHMARK: CITY MONUMENT LOCATED AT THE CENTERLINE INTERSECTION OF BRISA DEL MAR DRIVE AND EL SEGUNDO DRIVE, ELEVATION 4221.01 (CITY DATUM)

SCALE

HOR: 1" = 100'

VER: N/A

W/O: 10/1994-6

FILE: CH37GRPN.DWG

DATE: JANUARY 13, 1995

DESIGN BY: STAFF

DRAWN BY: STAFF

CHKD. BY: H.P.

APPD. BY: B.R.

GRADING

CHAPARRAL PARK SUBDIVISION

UNIT 37

GRADING PLAN

ro e and associates

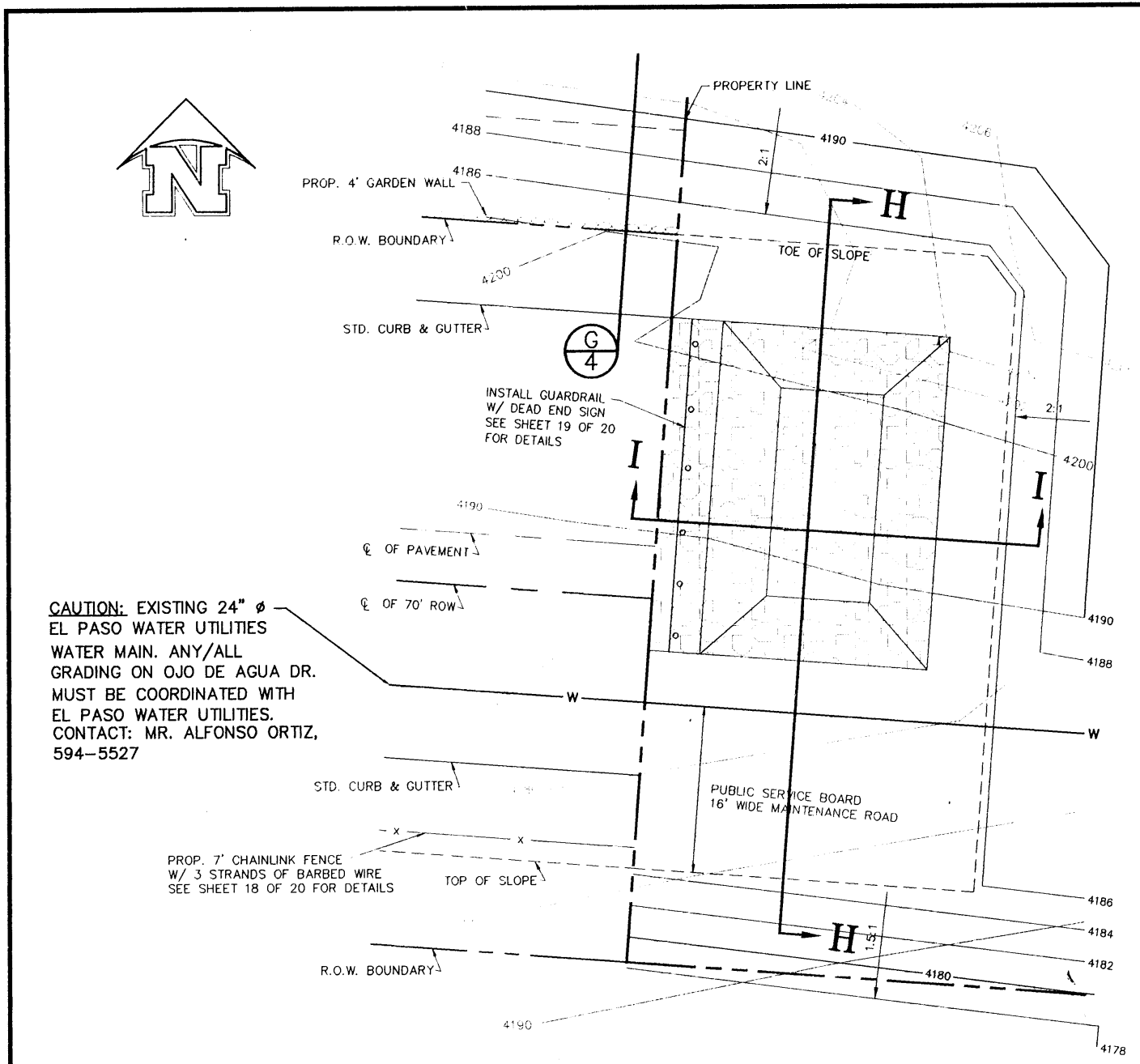
211 S. CALLE 30, SUITE 100, EL PASO, TX 79902

(915) 593-1414 FAX (915) 593-4978

ENGINEERING/LAND DEVELOPMENT/PLANNING/SURVEYING

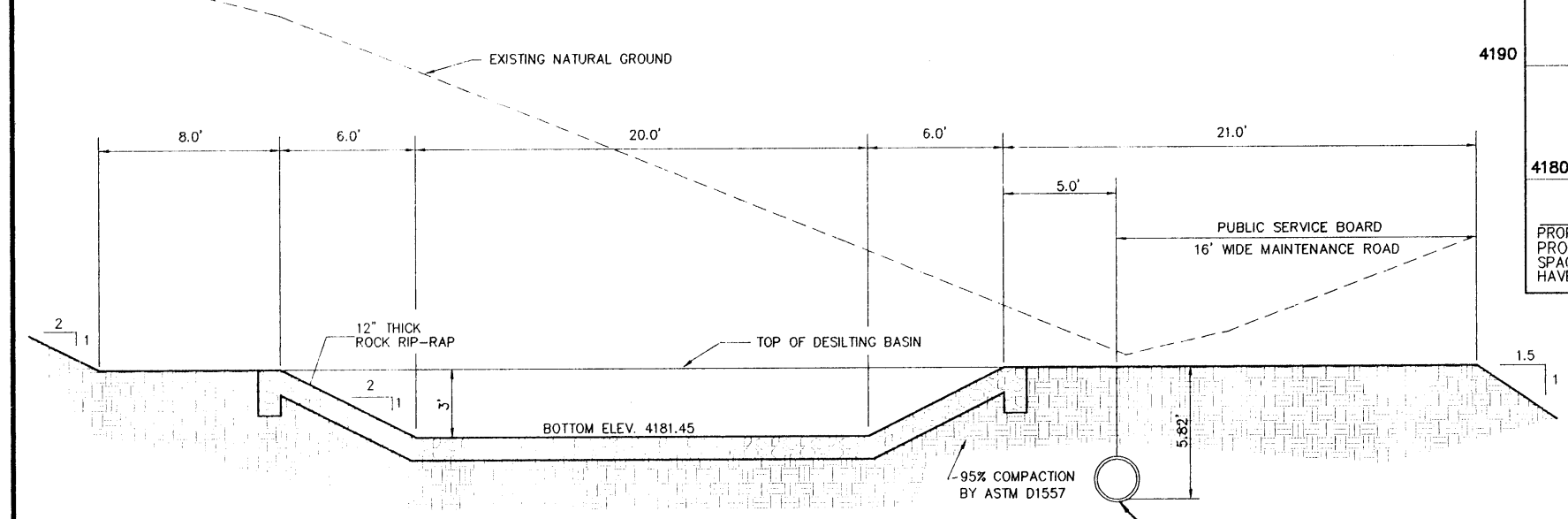
SHEET 3 OF 20

60043



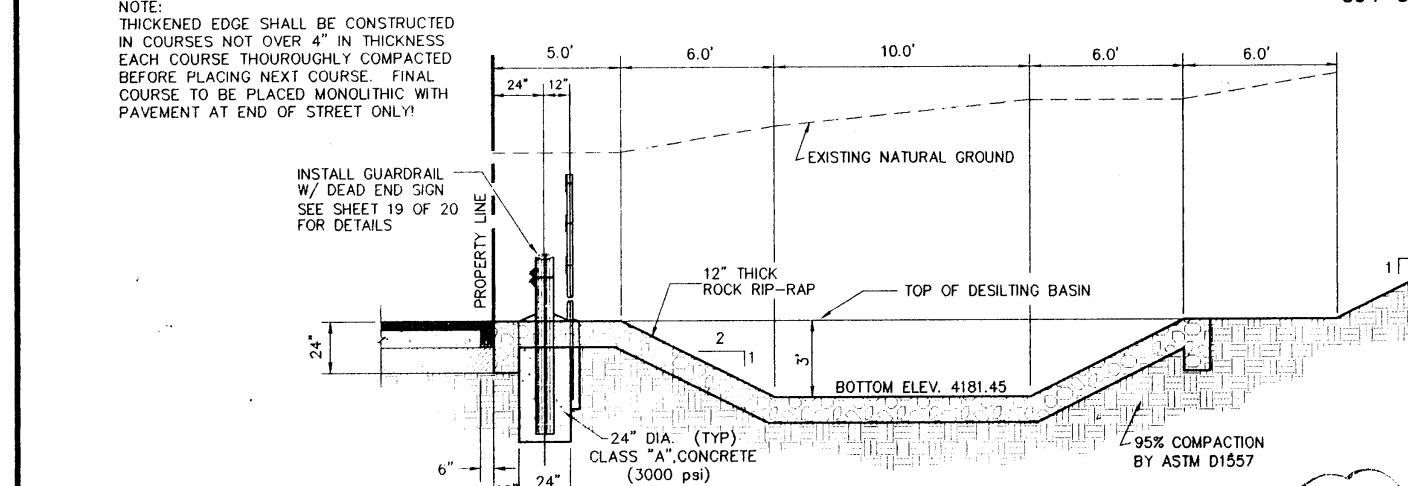
DESILTING BASIN @ END OF OJO DE AGUA DR.
SCALE: 1" = 10'

NOTE: NOT INSTALLED DUE TO CURRENT IMPROVEMENTS FOR CHAPARRAL PARK UNIT 30



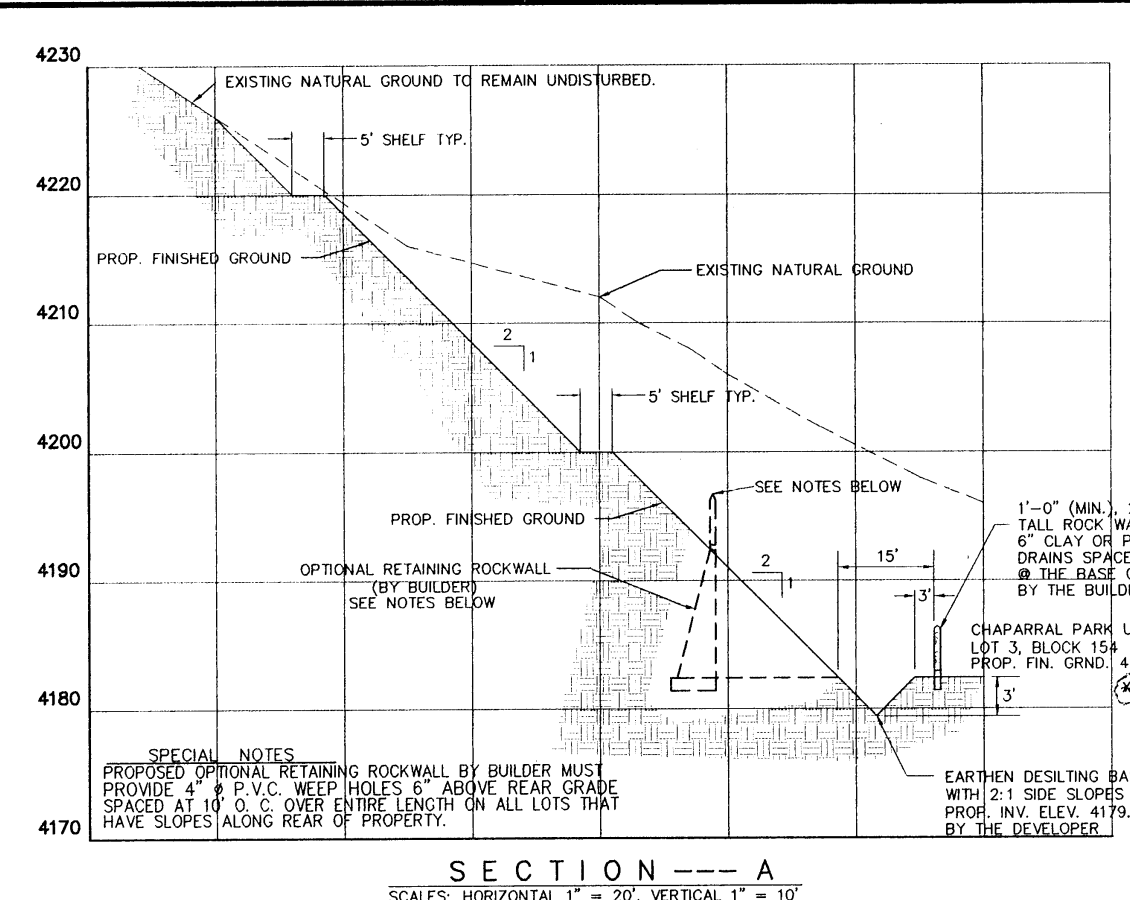
SECTION H-H
SCALE: 1" = 5'

CAUTION: EXISTING 24" # EL PASO WATER UTILITIES WATER MAIN. ANY/ALL GRADING ON OJO DE AGUA DR. MUST BE COORDINATED WITH EL PASO WATER UTILITIES. CONTACT: MR. ALFONSO ORTIZ, 594-5527

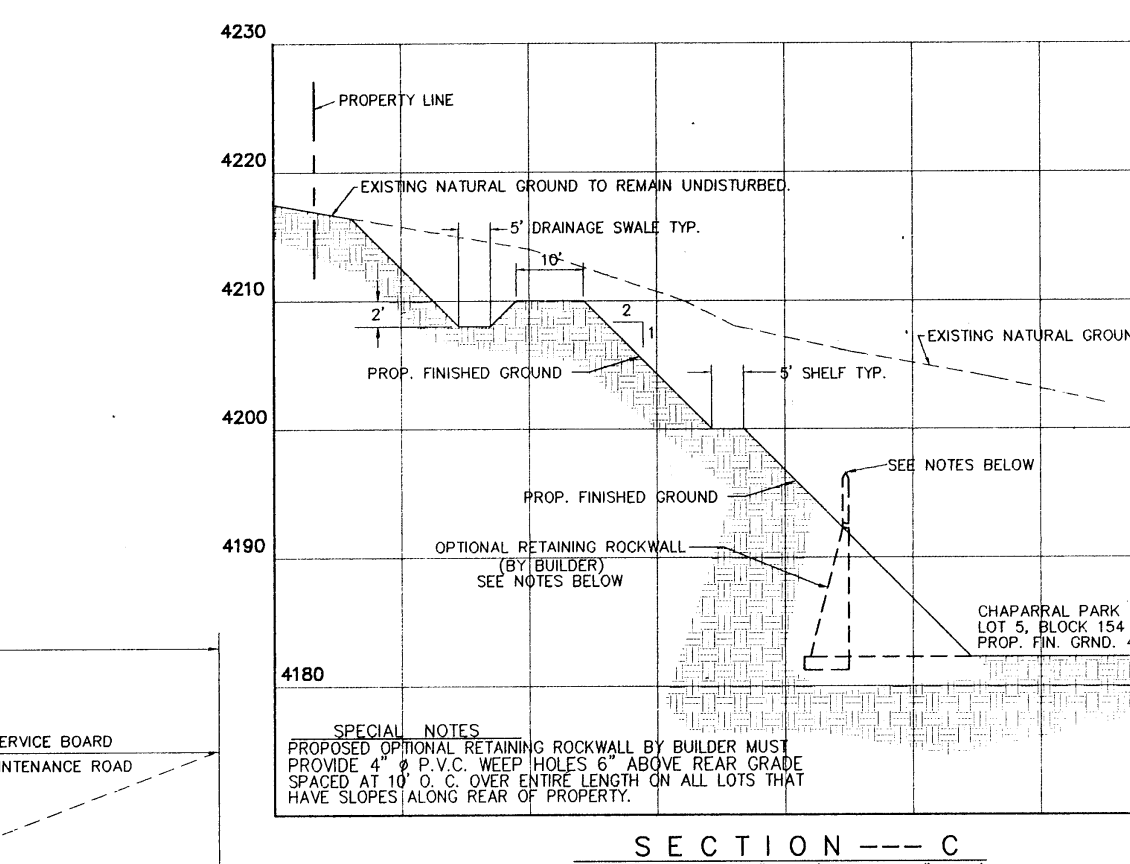


SECTION I-I
SCALE: 1" = 5'

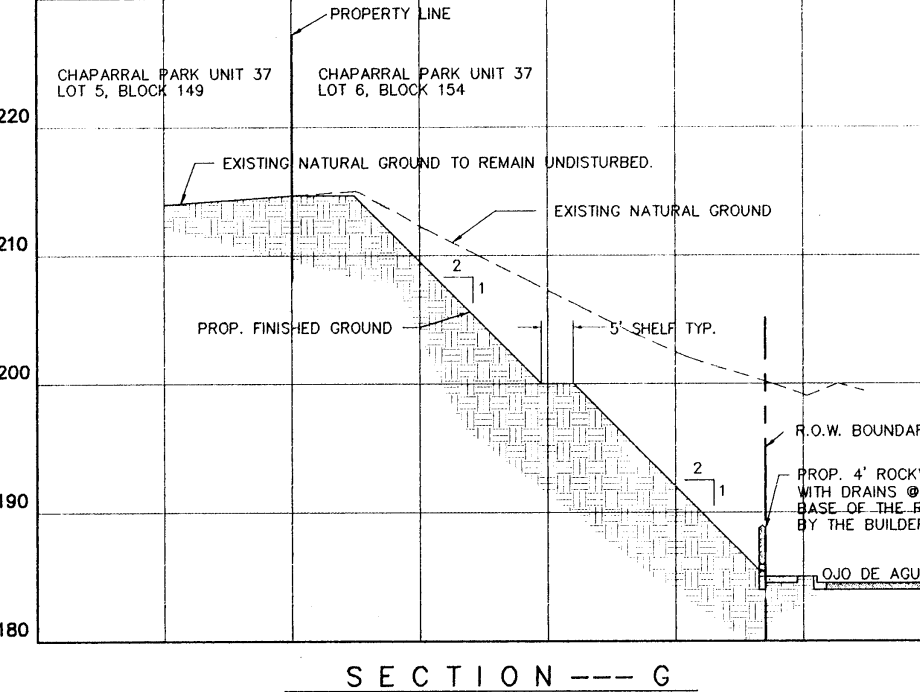
AS BUILT
AUGUST 3, 1995



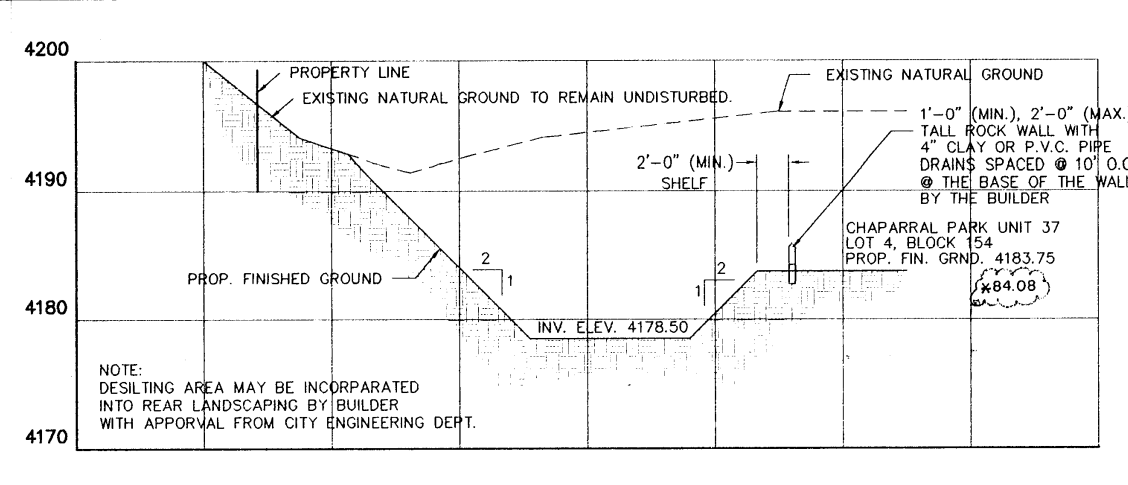
SECTION --- A
SCALE: HORIZONTAL 1" = 20', VERTICAL 1" = 10'



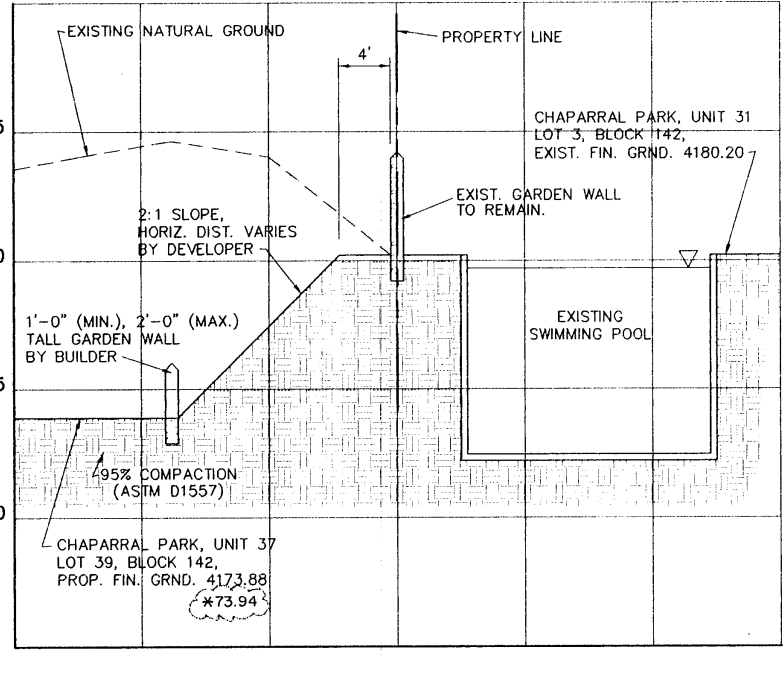
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SCALE: HORIZONTAL 1" = 20', VERTICAL 1" = 10'



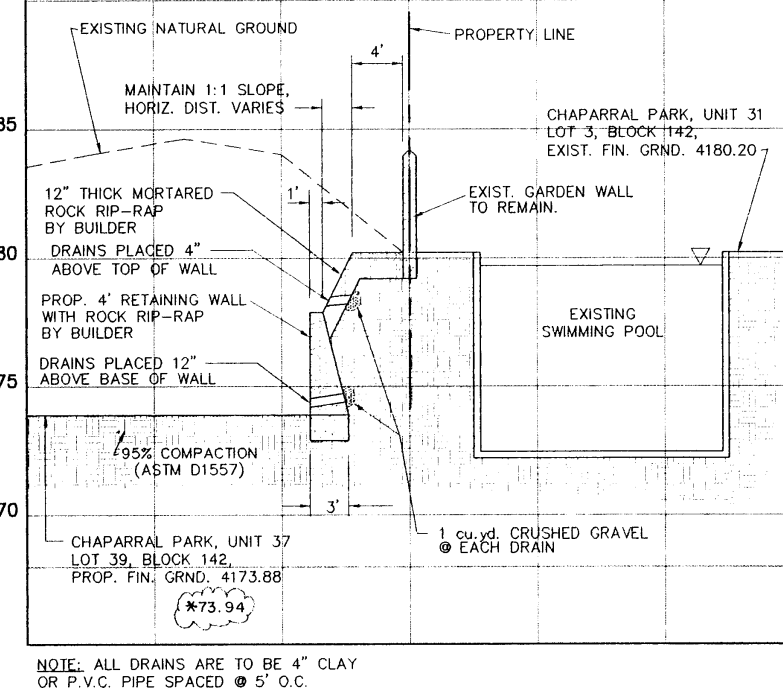
SECTION --- G
SCALE: HORIZONTAL 1" = 20', VERTICAL 1" = 10'



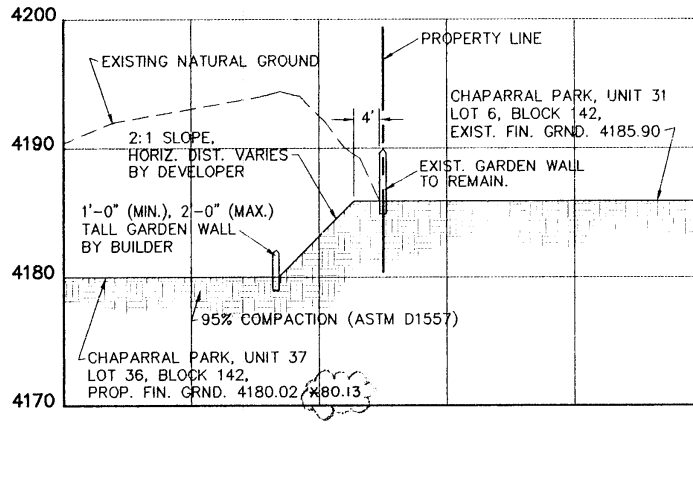
SECTION --- B
SCALE: HORIZONTAL 1" = 20', VERTICAL 1" = 10'



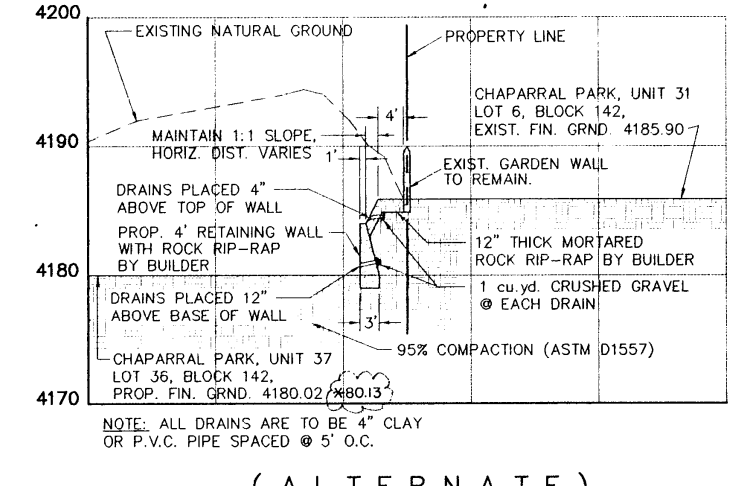
SECTION --- D
SCALE: HORIZONTAL 1" = 10', VERTICAL 1" = 5'



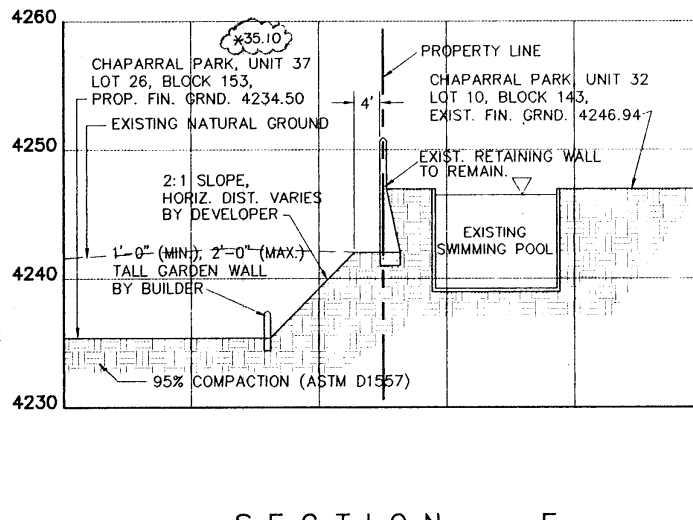
(ALTERNATE) SECTION --- E
SCALE: HORIZONTAL 1" = 10', VERTICAL 1" = 5'



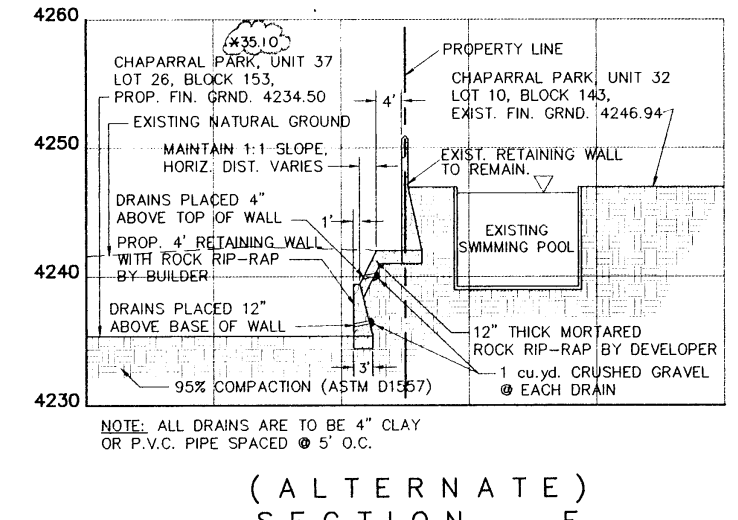
SECTION --- F
SCALE: HORIZONTAL 1" = 20', VERTICAL 1" = 10'



(ALTERNATE) SECTION --- G
SCALE: HORIZONTAL 1" = 20', VERTICAL 1" = 10'



SECTION --- H
SCALE: HORIZONTAL 1" = 20', VERTICAL 1" = 10'



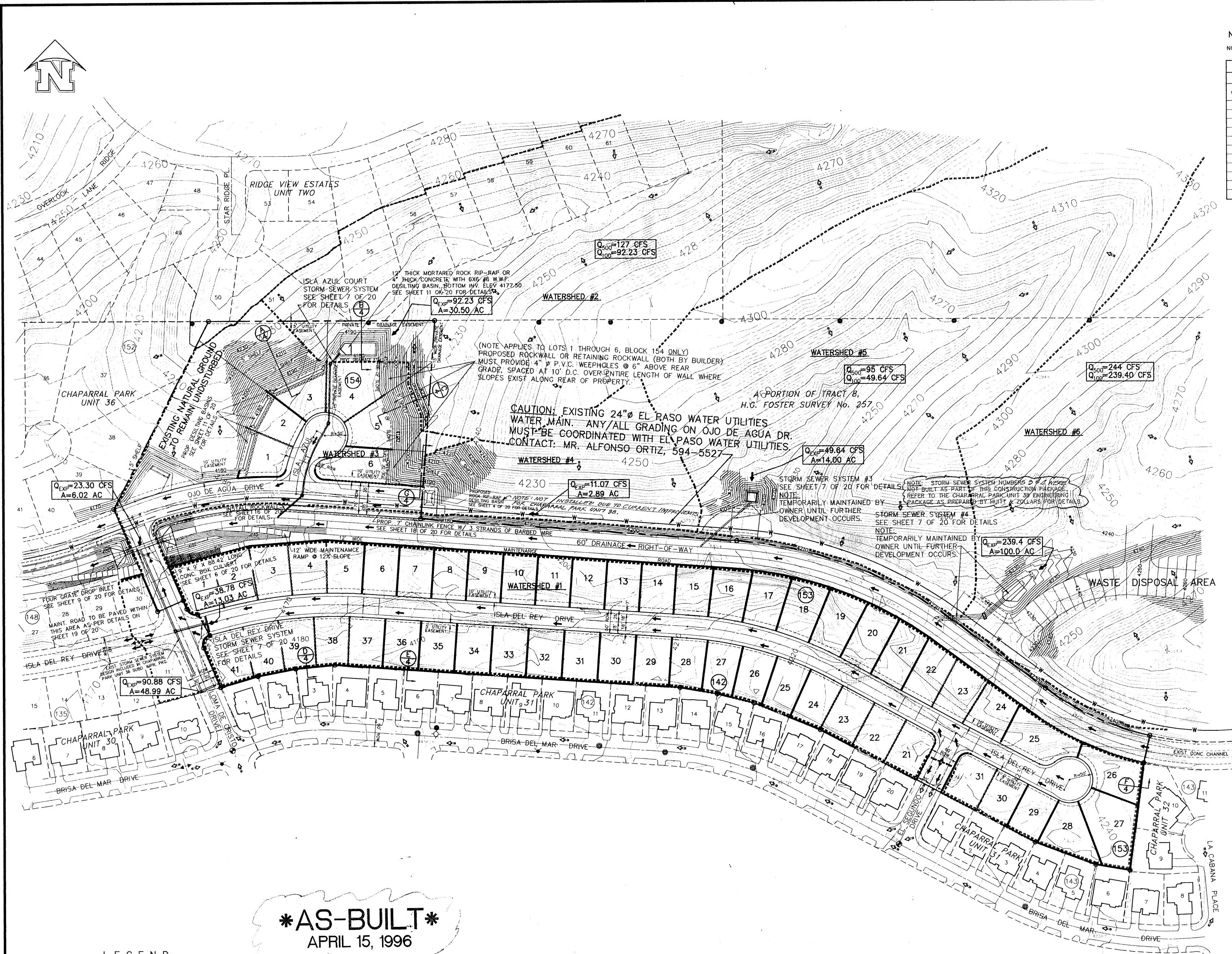
(ALTERNATE) SECTION --- I
SCALE: HORIZONTAL 1" = 20', VERTICAL 1" = 10'

DATE	REVISIONS	BY	SCALE
8/1/95	ADDED AS-BUILT ELEVATIONS	DW/MC	

HOR.	AS NOTED
VER. <td>N/A</td>	N/A
W.O.	101994-6
FILE:	CH37CRD.DWG
DATE:	JANUARY 13, 1995
DESIGN BY:	STAFF
DRAWN BY:	STAFF
CHECKED BY:	H.P.
APPRO. BY:	B.E.

GRADING
CHAPARRAL PARK SUBDIVISION
UNIT 37
GRADING DETAILS

hnp roe and associates
801 N. Collins St. Suite No. 8 El Paso, TX 79902
(915) 533-4444 FAX (915) 533-4492
ENGINEERING/LAND DEVELOPMENT/PLANNING/SURVEYING
SHEET 4 OF 20
600445



NOTE: DRAINAGE QUANTITIES BASED ON 100 YEAR STORM FREQUENCY.

NOTE: ALL PERTINENT DATA LISTED IN TABLE BELOW WAS OBTAINED FROM SHEETS D-9, D-11, D-12 AND D-13 OF THE CITY OF EL PASO SUBDIVISION DESIGN STANDARDS, REV. 8/16/83

DRAINAGE COMPUTATIONS

COMPUTATIONS BASED ON RATIONAL FORMULA Q = C.I.A. 100 YEAR STORM FREQUENCY

Watershed	Tc	C	A	L _e	Q ₁₀₀	Q ₁₀₀ (Computed Result)	Remarks
1	11.00	0.60	13.03	4.96	38.78		
2	10.54	0.60	30.5	5.04	92.23	127 *	
3	5.00	0.60	6.02	6.45	23.30		
4	5.00	0.60	2.86	6.45	11.07		
5	6.63	0.60	14.9	5.91	49.64	95 *	
6	18.39	0.60	100	3.99	239.40	244 *	

* AS PER N.E.C. SHEET PERFORMED BY CONDE, INC. CHAPARRAL PARK FLOOD ZONE AMENDMENT AN EXTENSION OF WEST HILLS FLOOD ZONE AMENDMENT FEDERAL EMERGENCY MANAGEMENT AGENCY CASE NO. 86-06-748

AS-BUILT
APRIL 15, 1996

LEGEND

- EXISTING DRAINAGE FLOWS
- ▲— PROPOSED DRAINAGE FLOWS
- PROPOSED DRAINAGE HIGH-POINT
- PROPOSED DRAINAGE LOW-POINT
- ◇— PROPOSED WATERSHED LIMITS
- ⊙ DENOTES EXISTING CITY MONUMENT
- ⊕ DENOTES PROPOSED CITY MONUMENTS

DATE	REVISIONS	BY	BENCHMARK
4/15/96	ADDED NOTE - STORM SEWER SYSTEM FOUR	DLA	BENCHMARK: CITY MONUMENT LOCATED AT THE CENTERLINE INTERSECTION OF BRISA DEL MAR DRIVE AND EL SEGUNDO DRIVE, ELEVATION 4221.01 (CITY DATUM)

SCALE
HOR: 1" = 100'
VER: N/A
W.O. 101924-6
FILE: CH3708PN.DWG
DATE: JANUARY 13, 1995
DESIGN BY: STAFF
DRAWN BY: STAFF
CHKD. BY: H.P.
APPR. BY: BR

DRAINAGE

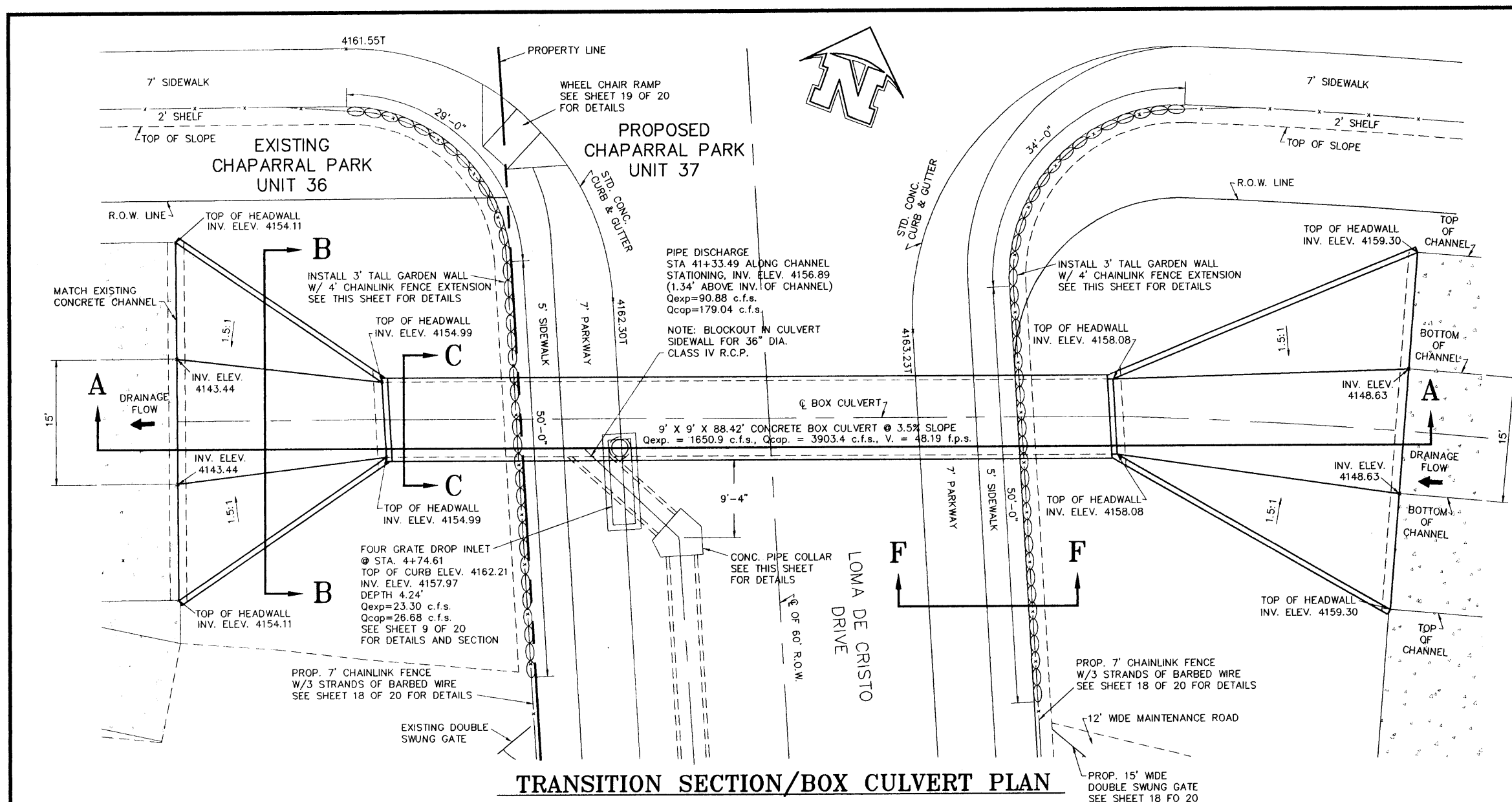
CHAPARRAL PARK SUBDIVISION
UNIT 37

DRAINAGE PLAN

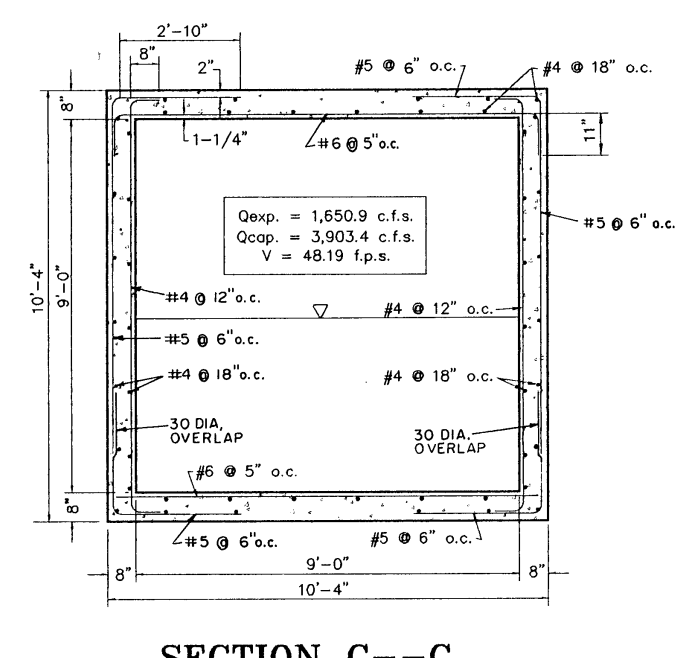
brp roe and associates
601 N. Colton St. Suite 208 El Paso, TX 79902
(915) 533-1418 FAX (915) 533-4912
ENGINEERING/LAND DEVELOPMENT/PLANNING/SURVEYING

SHEET **5** OF **20**

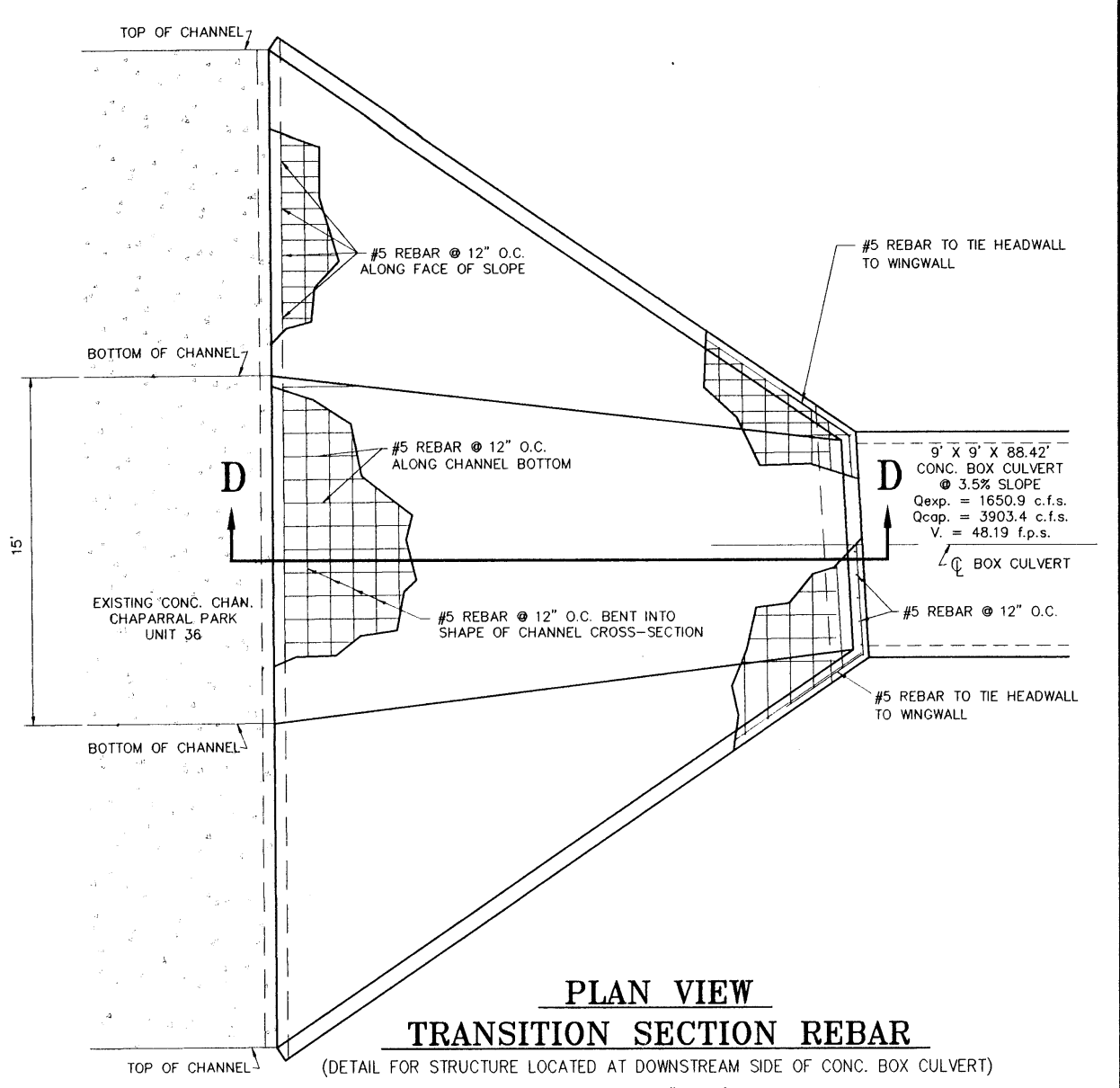
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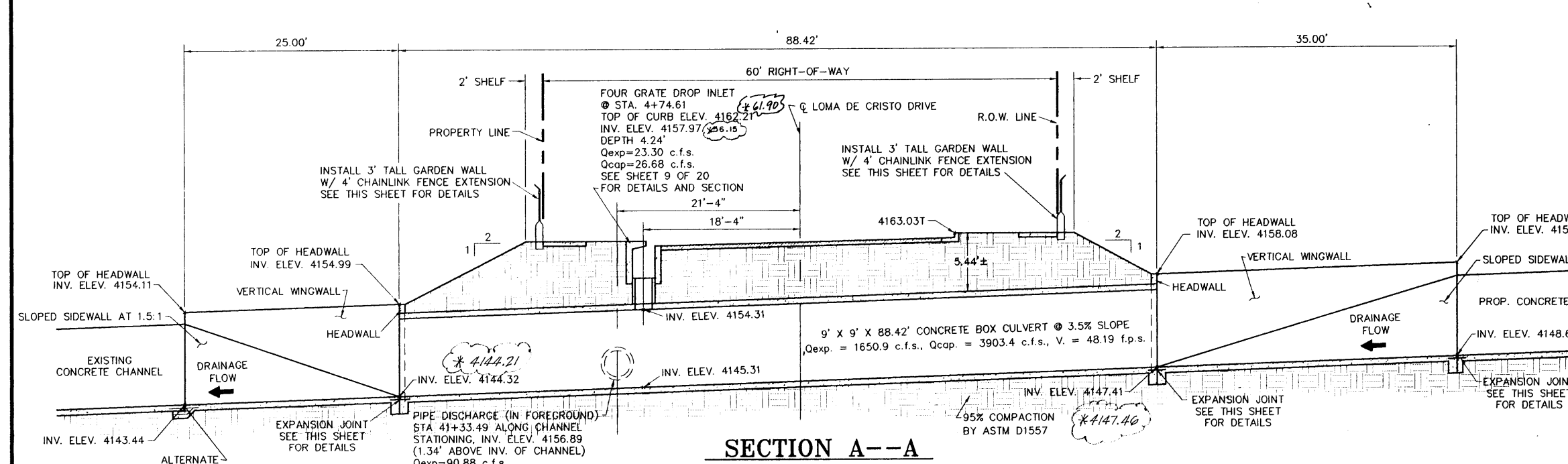
TRANSITION SECTION/BOX CULVERT PLAN
SCALE: 1" = 10'



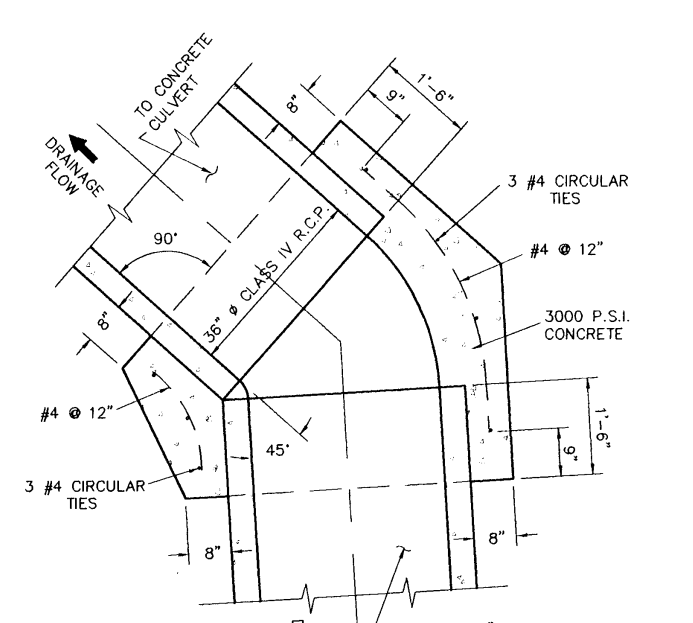
SECTION C--C
SCALE: 1" = 3'



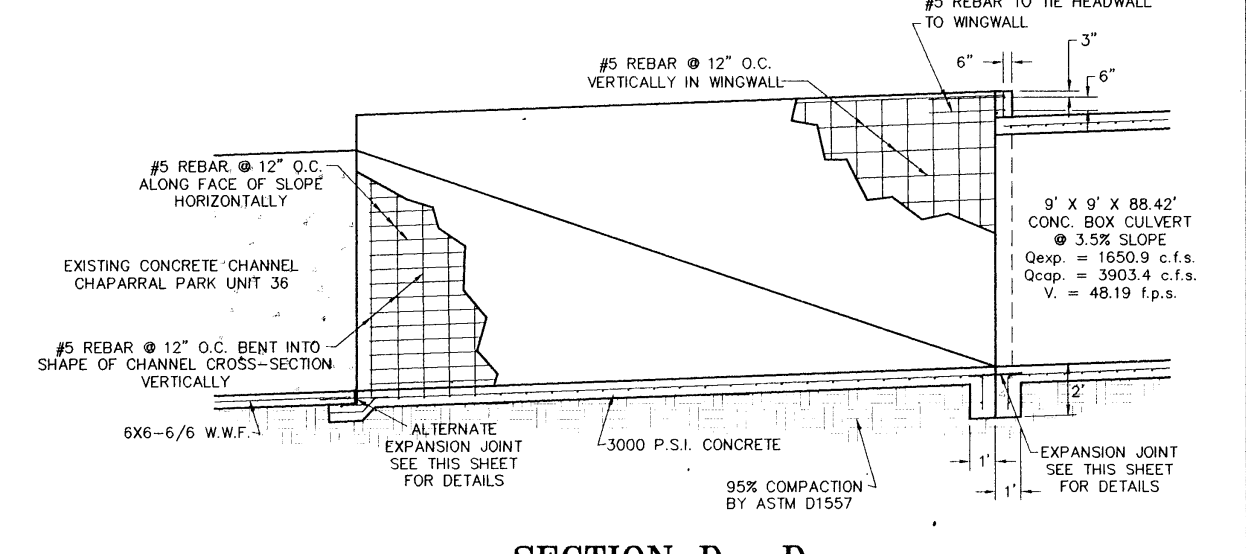
PLAN VIEW TRANSITION SECTION REBAR
(DETAIL FOR STRUCTURE LOCATED AT DOWNSTREAM SIDE OF CONC. BOX CULVERT)
SCALE: 1" = 5'



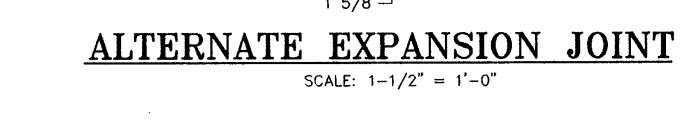
SECTION A--A
SCALE: 1" = 10'



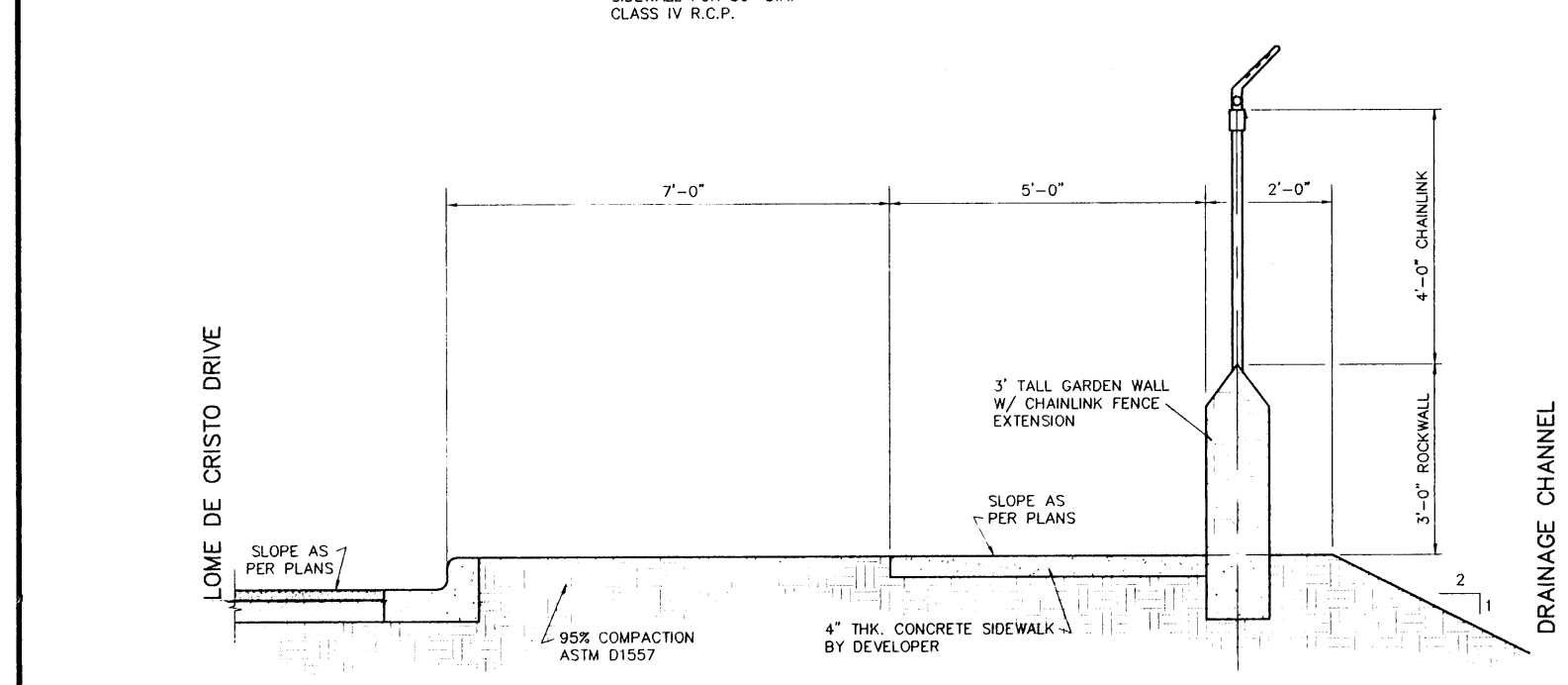
PIPE COLLAR DETAIL
SCALE: 1" = 2'



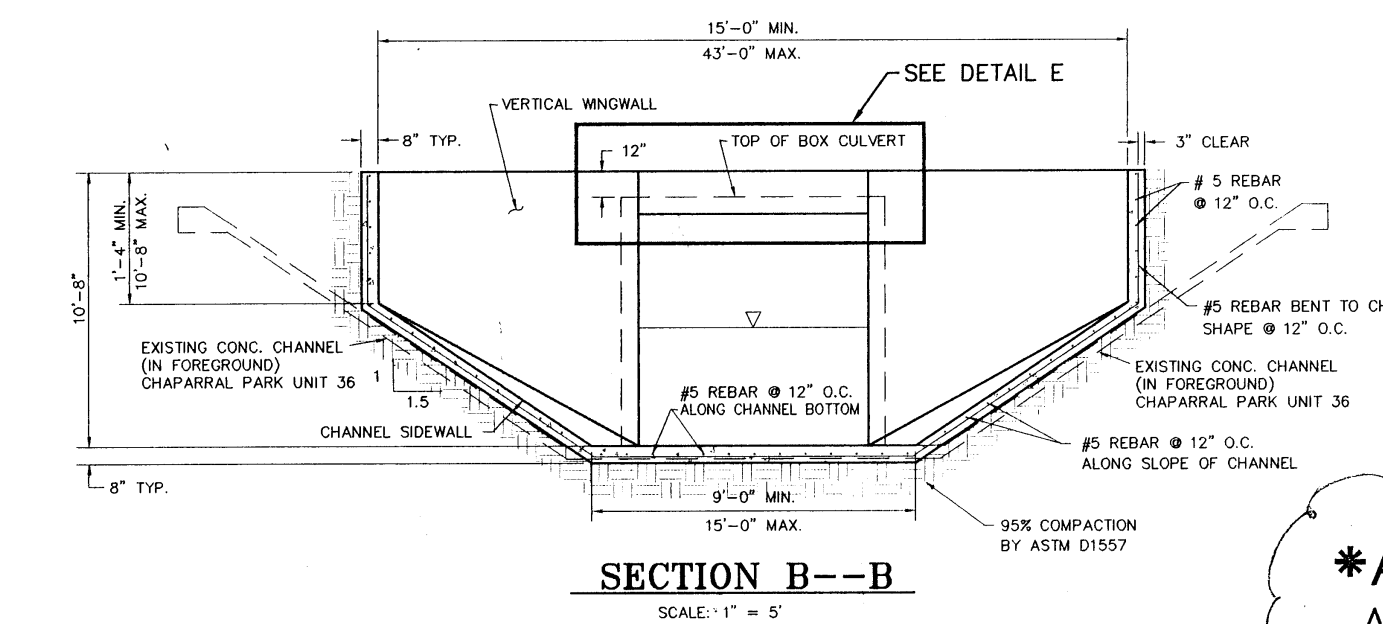
SECTION D--D
SCALE: 1" = 5'



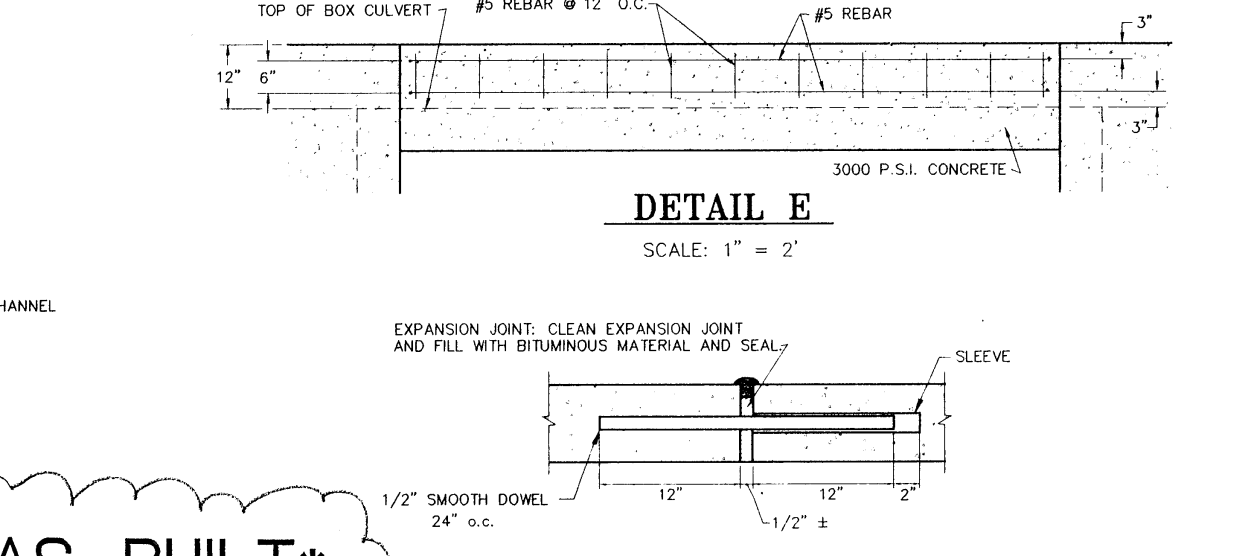
ALTERNATE EXPANSION JOINT
SCALE: 1-1/2" = 1'-0"



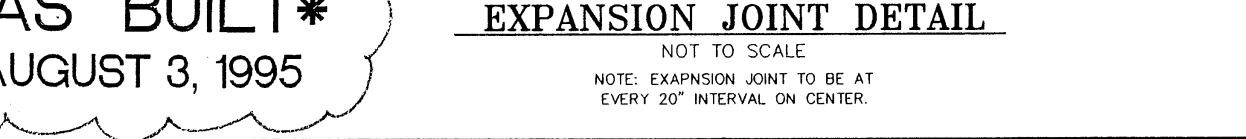
SECTION F--F
SCALE: 1" = 2'



SECTION B--B
SCALE: 1" = 5'



DETAIL E
SCALE: 1" = 2'



EXPANSION JOINT DETAIL
NOT TO SCALE

AS BUILT
AUGUST 3, 1995

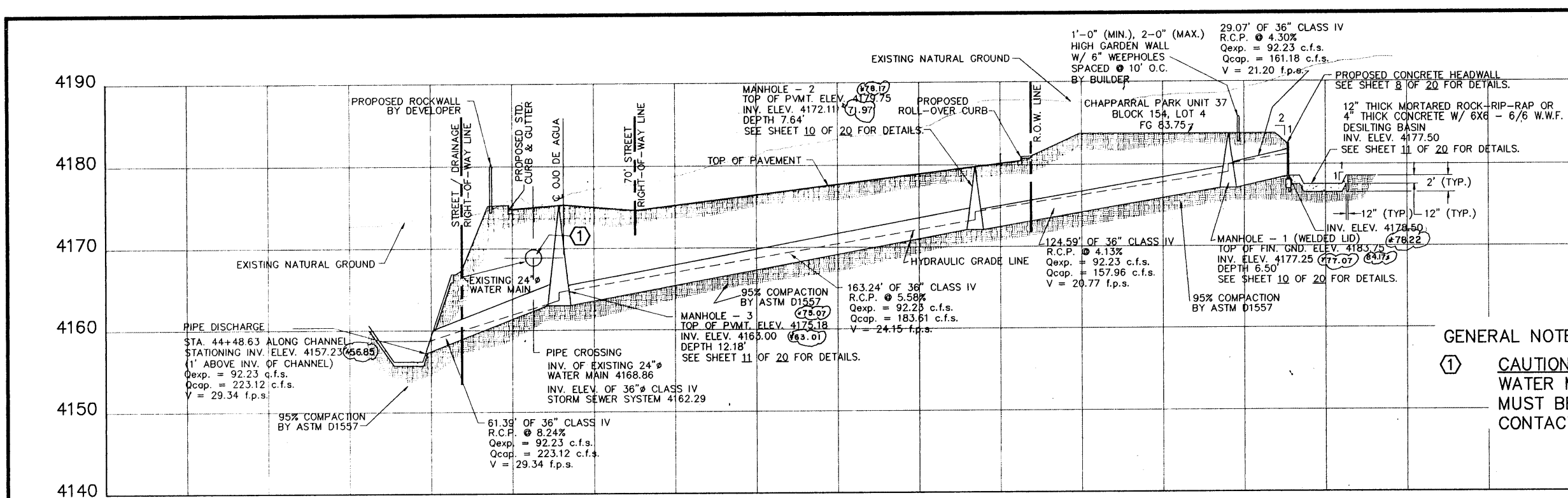
DATE	REVISIONS	BY	SCALE
8/3/95	ADDED AS-BUILT ELEVATIONS	BAHC	AS NOTED

HOR.	SCALE
AS NOTED	
N/A	
10/994-S	
CH3700-DWG	
DATE: JANUARY 13, 1995	
DESIGN BY: STAFF	
DRAWN BY: STAFF	
CHKD. BY: H.P.	
APPD. BY: BR	

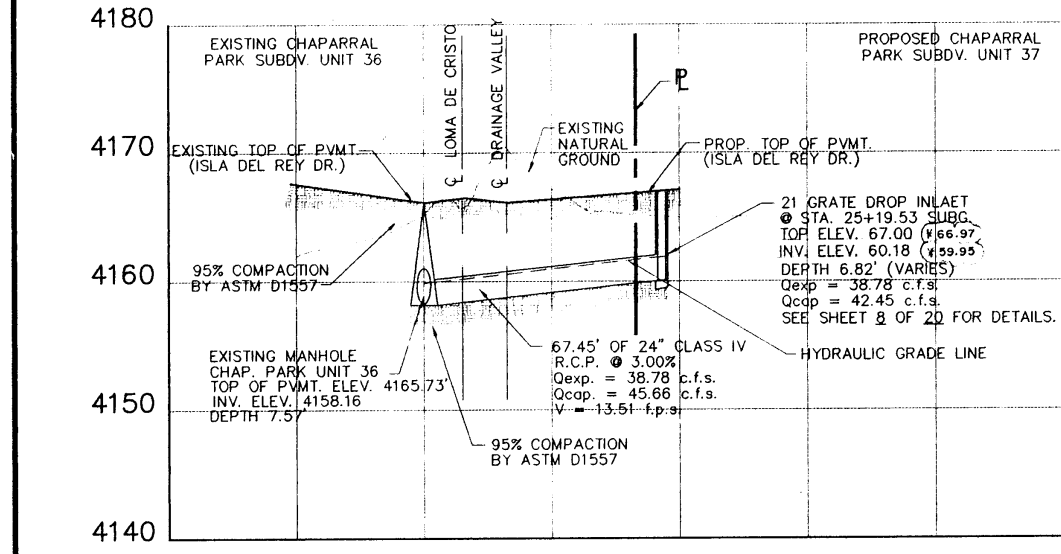
DETAILS
CHAPARRAL PARK SUBDIVISION
UNIT 37
CONCRETE CULVERT

hnp
roe and associates
401 N. GARDEN ST. Suite 800 • El Paso, TX 79901
(915) 533-1418 • FAX (915) 533-4872
ENGINEERING/LAND DEVELOPMENT/PLANNING/SURVEYING
SHEET 6 OF 20

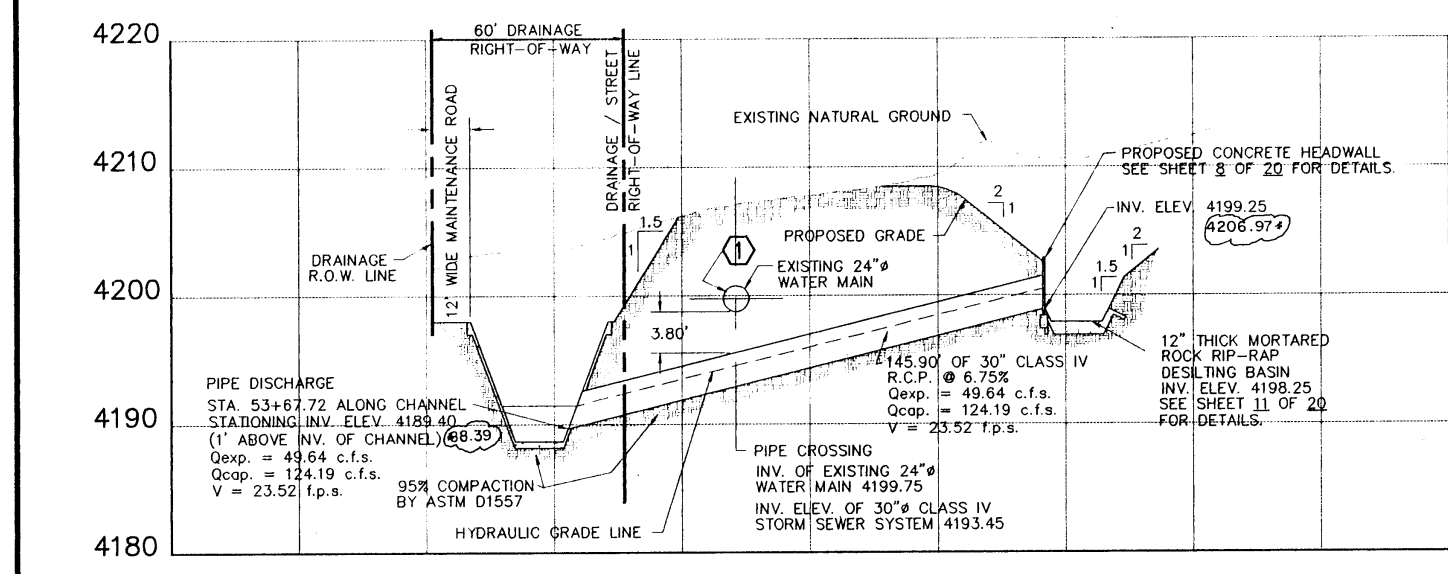
600445



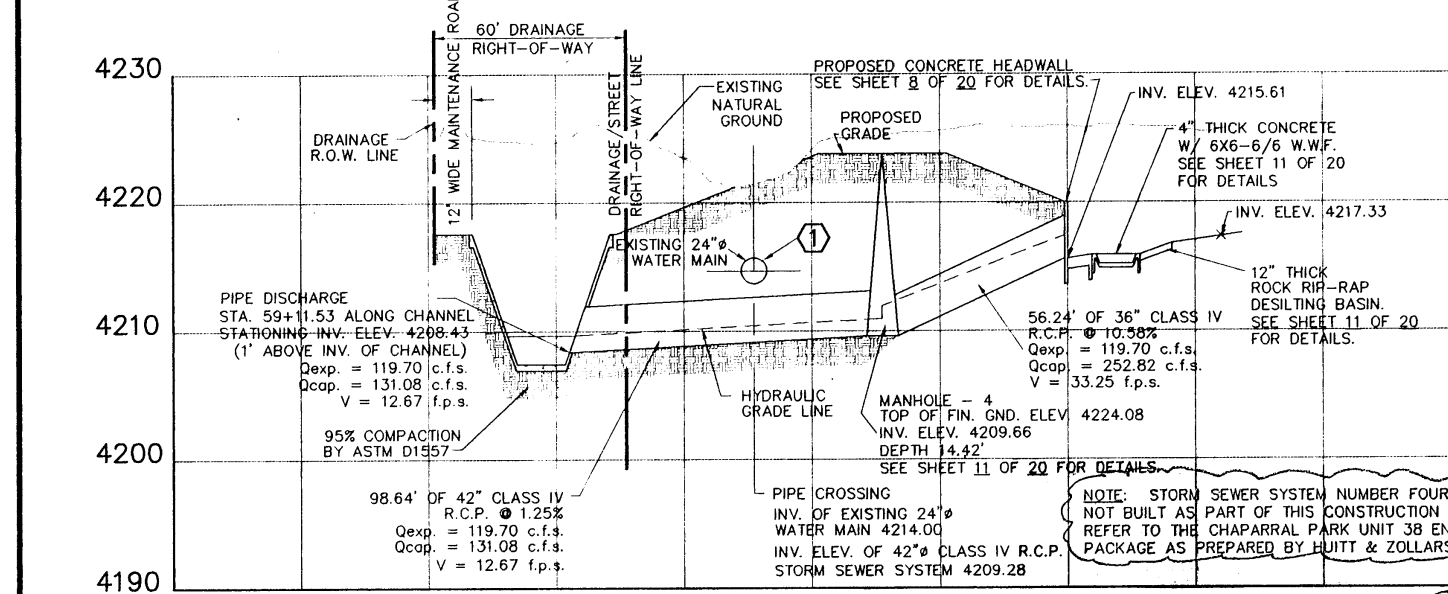
SECTION --- B
 SCALES: HORIZONTAL 1" = 40', VERTICAL 1" = 10'



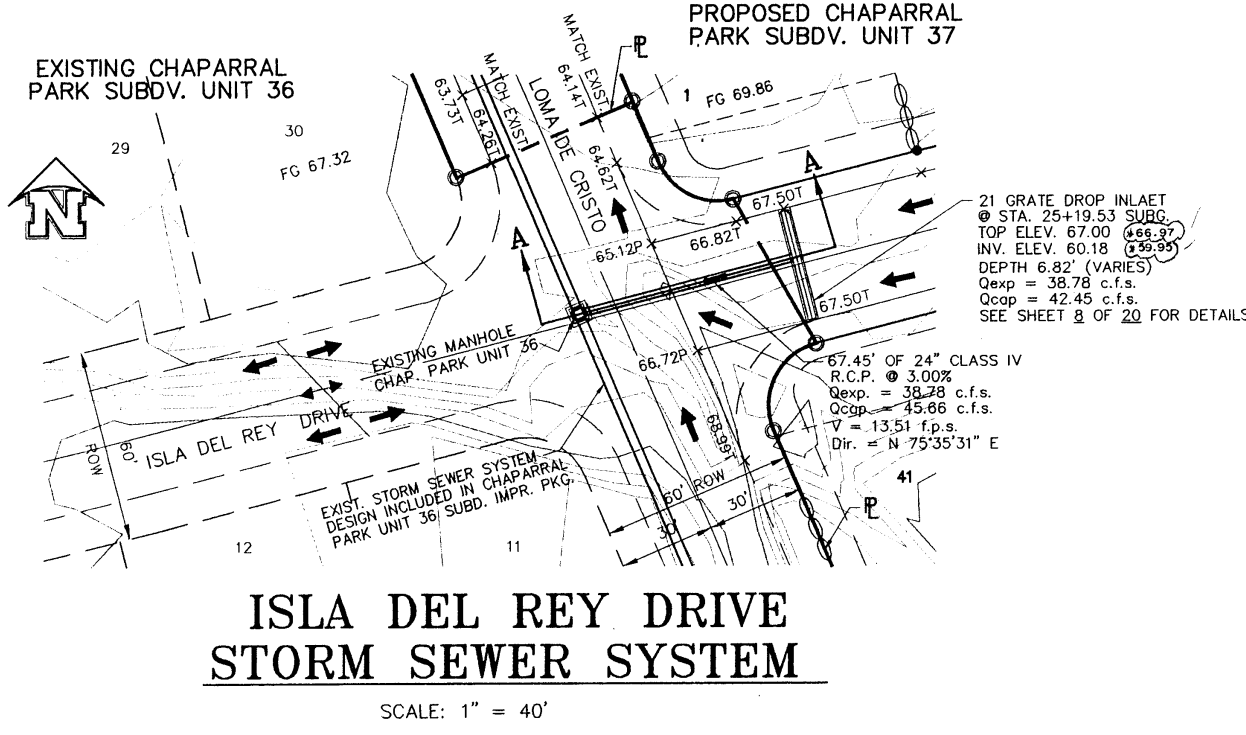
SECTION --- A
 SCALES: HORIZONTAL 1" = 40', VERTICAL 1" = 10'



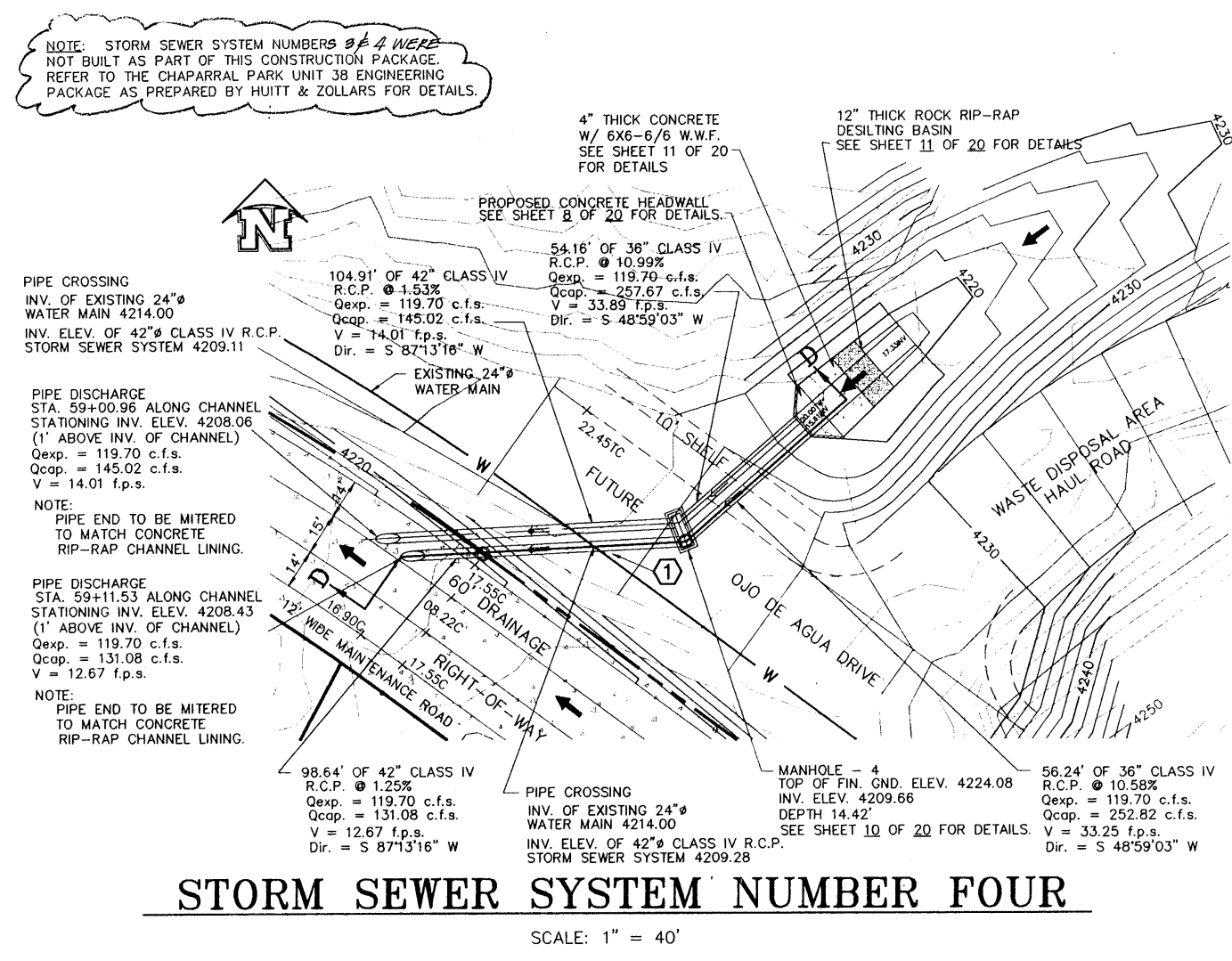
SECTION --- C
 SCALES: HORIZONTAL 1" = 40', VERTICAL 1" = 10'



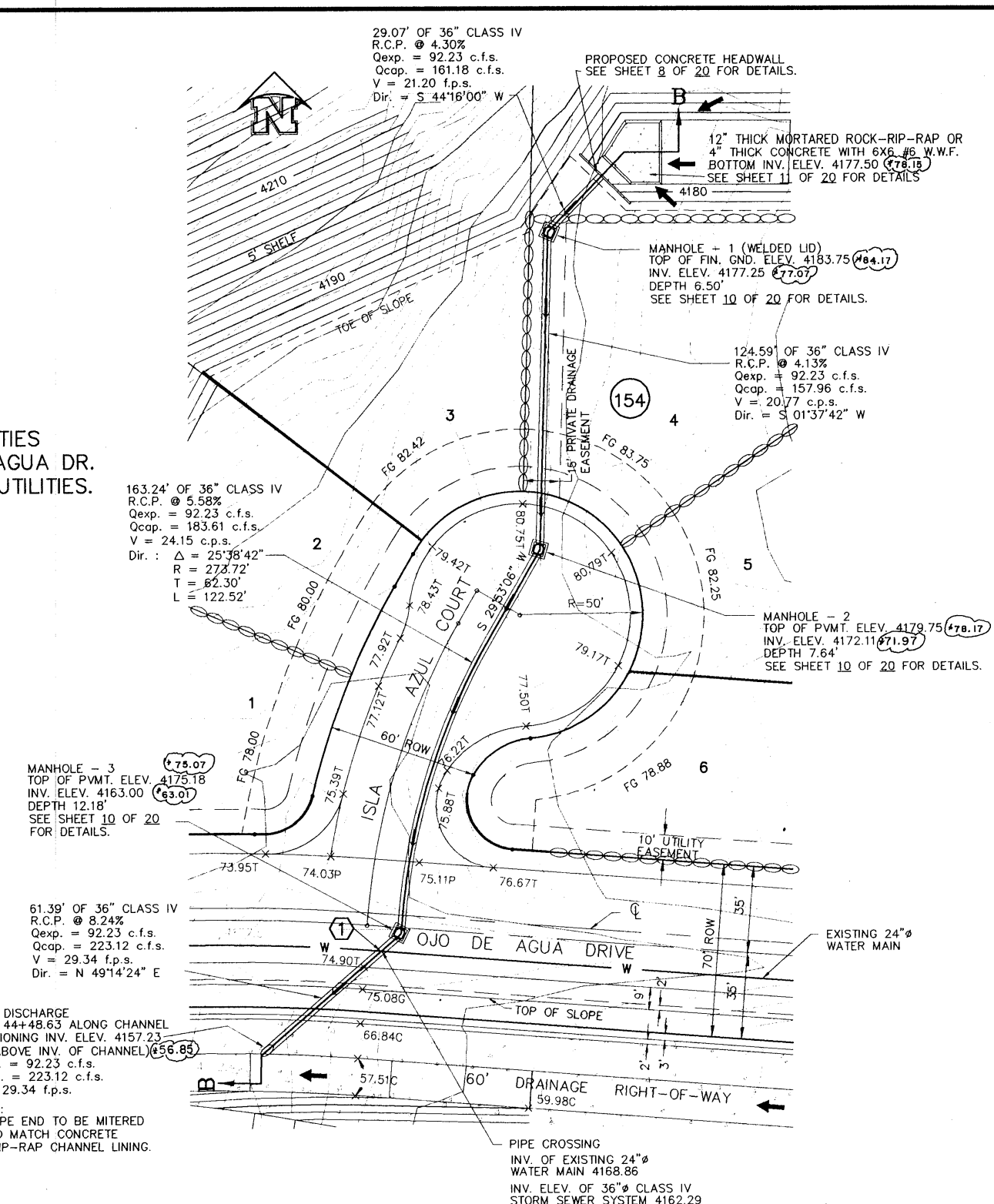
SECTION --- D
 SCALES: HORIZONTAL 1" = 40', VERTICAL 1" = 10'



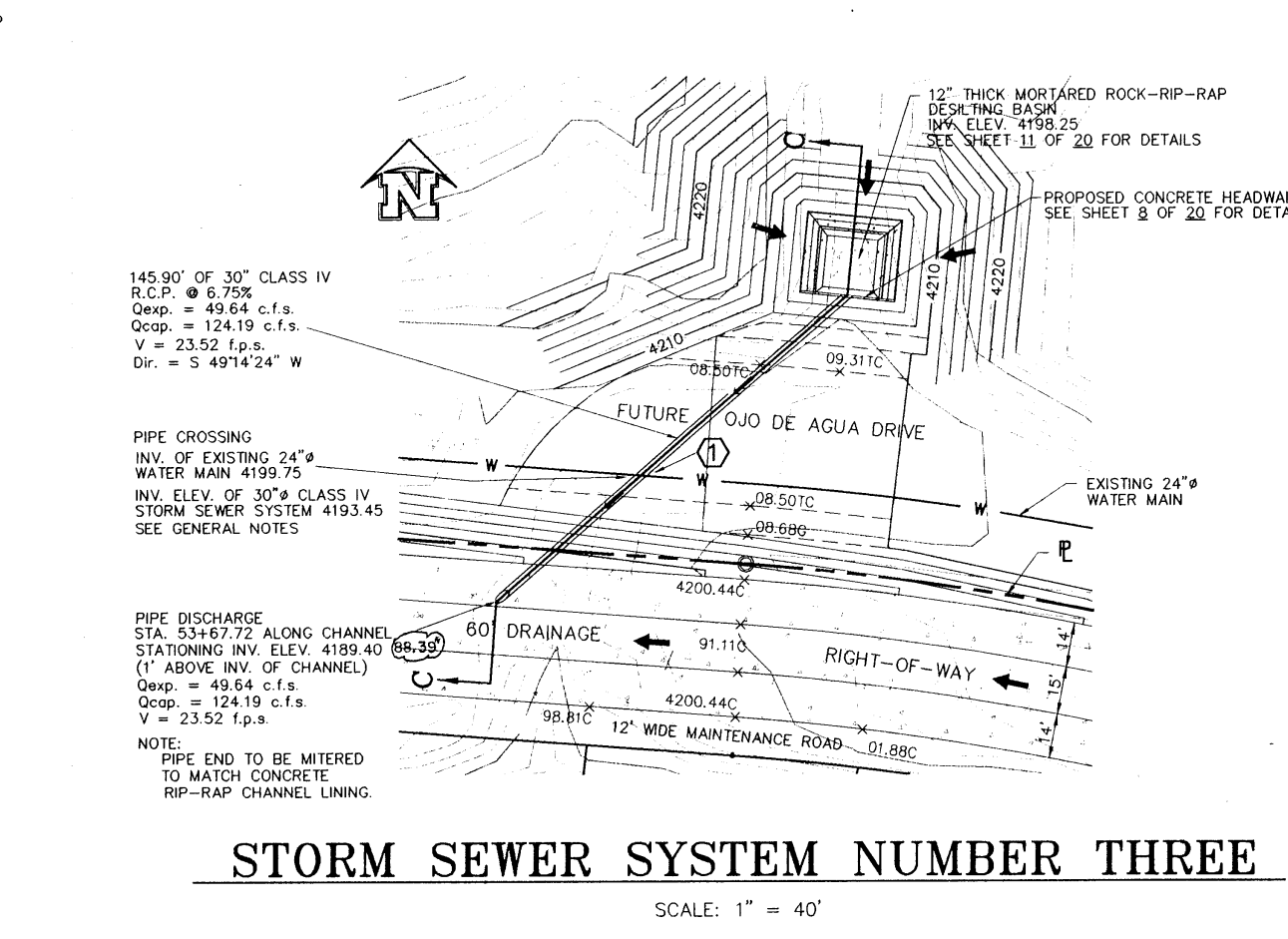
ISLA DEL REY DRIVE
 STORM SEWER SYSTEM
 SCALE: 1" = 40'



STORM SEWER SYSTEM NUMBER FOUR
 SCALE: 1" = 40'



ISLA AZUL COURT -- STORM SEWER SYSTEM
 SCALE: 1" = 40'



STORM SEWER SYSTEM NUMBER THREE
 SCALE: 1" = 40'

GENERAL NOTES
 1 CAUTION: EXISTING 24" EL PASO WATER UTILITIES WATER MAIN. ANY/ALL GRADING ON OJO DE AGUA DR. MUST BE COORDINATED WITH EL PASO WATER UTILITIES. CONTACT: MR. ALFONSO ORTIZ, 594-5527

NOTE: STORM SEWER SYSTEM NUMBER ONE WAS NOT BUILT AS PART OF THIS CONSTRUCTION PACKAGE. REFER TO THE CHAPARRAL PARK UNIT 36 ENGINEERING PACKAGE AS PREPARED BY HUNT & ZOLLARS FOR DETAILS.

AS-BUILT
 APRIL 15, 1996

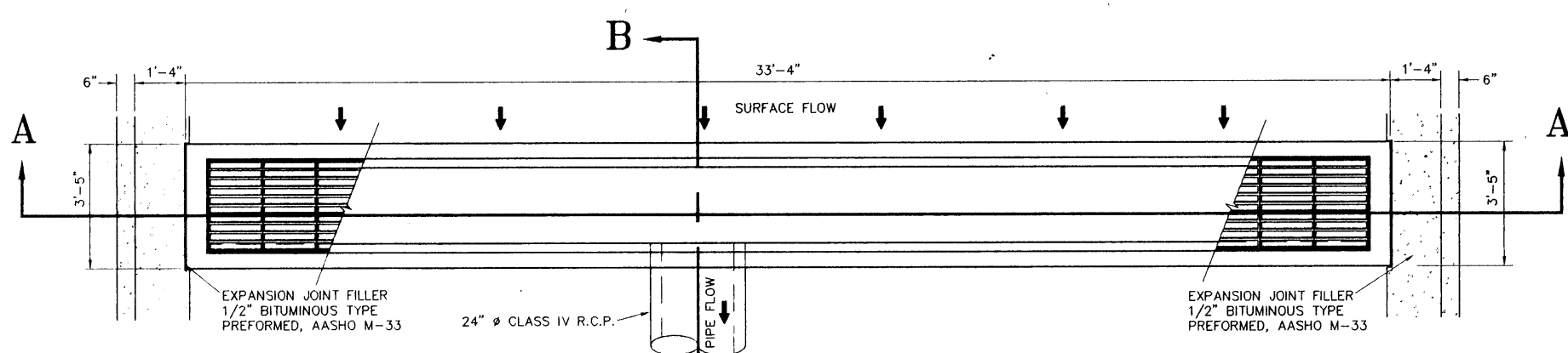
DATE	REVISIONS	BY	SCALE
4/17/96	ADDED AS-BUILT ELEVATIONS	PC	AS NOTED
4/17/96	ADDED NOTE - STORM SEWER SYSTEM FOUR	DLA	

DATE	REVISIONS	BY	SCALE

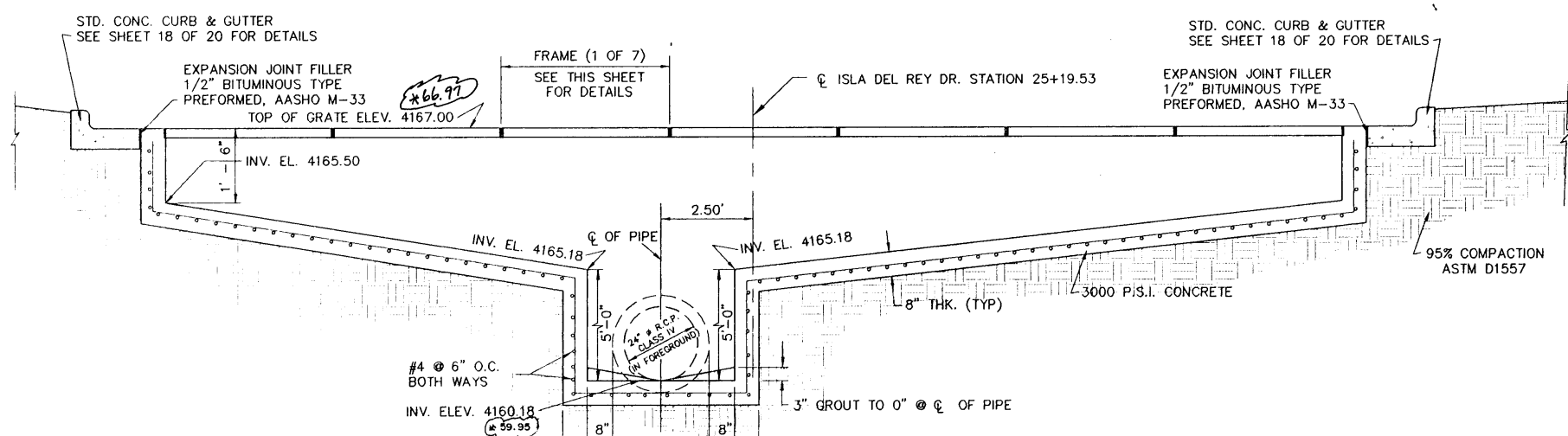
DETAILS
**CHAPARRAL PARK SUBDIVISION
 UNIT 37**
 STORM SEWER
 SYSTEMS

bnp roe and associates
 601 N. GARDEN ST. SUITE 205 • DALLAS, TX 75202
 (972) 833-1418 FAX: (972) 833-4978
 ENGINEERING/LAND DEVELOPMENT/PLANNING/SURVEYING
 SHEET 7 OF 20
 600413

C:\PROJECTS\CHAPARRAL\CHAPARRAL.DWG



**PLAN VIEW OF TWENTY-ONE FLUSH GRATE DROP INLET
@ ISLA DEL REY DR. CENTERLINE STATION 25+19.53**



SECTION A - A

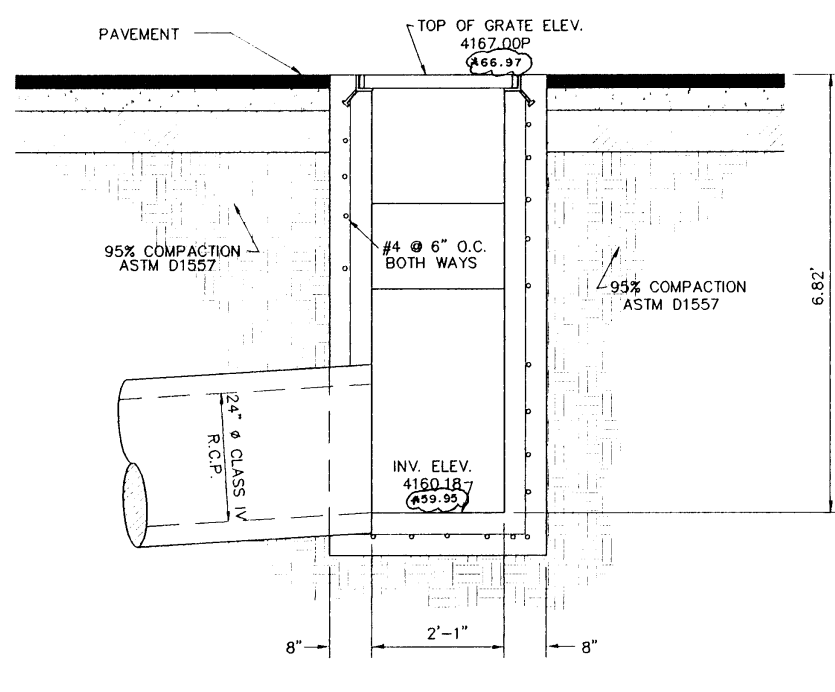
FLUSH GRATE DROP INLET CALCULATIONS

FLOW THRU ORIFICES FORMULA

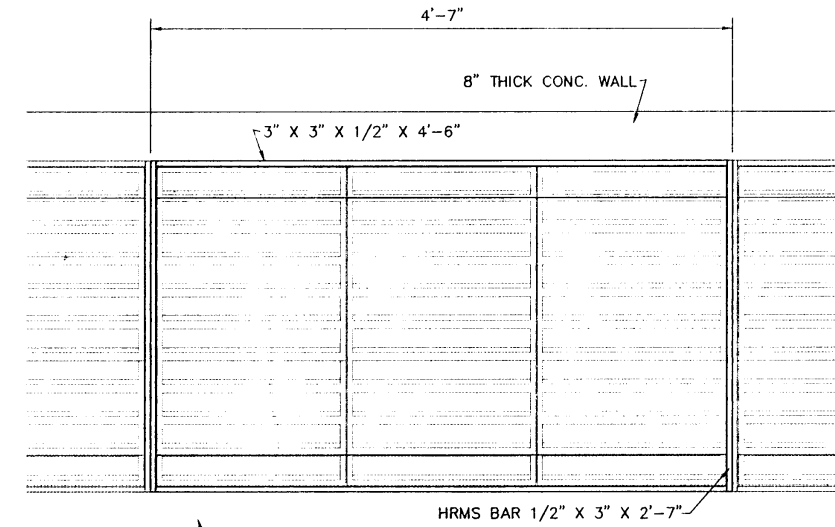
$Q_{open} = CA \sqrt{2DH}$
 $Q_{open} = 0.7 \times 2.07 \times 72 \times 3.52 \times 0.25 \sqrt{2 \times 2.0}$
 $Q_{open} = 5.81 \text{ C.F.S.}$
SUMMATION:
 21 - FLUSH GRATE DROP INLET @ SUN ROSE DR. CENTERLINE STATION 4+08.73
 $Q_{open} = 5.81 \text{ C.F.S.} \times (0.50 (1.00/0.99)) \times 21 \text{ GRATES}$
 $Q_{open} = 61.03 \text{ C.F.S. (NET)}$
 $Q_{open} = 38.18 \text{ C.F.S.}$

DROP INLET NOTES

1. WELDED STEEL OR CAST GRATES AS DETAILLED ARE ALL ACCEPTABLE GRATES. MIXING OF ALTERNATE TYPES OF GRATES ON THE SAME PROJECT WILL BE PERMITTED WITH THE APPROVAL OF THE CITY ENGINEER.
2. ALL CONSTRUCTION AND MATERIALS SHALL BE IN ACCORDANCE WITH THE CURRENT STANDARD SPECIFICATIONS.
3. SHARP EDGES RESULTING FROM FABRICATION SHALL BE FILED BY ANY ACCEPTABLE METHOD FOR SAFETY AND HANDLING.
4. GRATES SHALL BE INSTALLED IN FRAME WITH FLOW ARROW POINTING DOWNSTREAM OR TOWARD THE LOW POINT IN A SUMP.
5. WELDED GRATES SHALL BE STRUCTURAL STEEL CONFORMING TO THE REQUIREMENTS OF AASHTO M-181 OR OF CORROSION RESISTANT STRUCTURAL STEEL CONFORMING TO THE REQUIREMENTS OF AASHTO M-181 OR M-227 OR BE MADE OF OTHER APPROVED STEEL OF EQUAL QUALITY. MIXING GRATES OF STEEL ON THE SAME GRATE WILL NOT BE PERMITTED.
6. GRATES MADE OF M-181 STEEL SHALL BE GALVANIZED IN ACCORDANCE WITH AASHTO M-111 SPECIFICATIONS OR SHALL BE PAINTED WITH ORGANIC ZINC PAINTS MEETING THE REQUIREMENTS OF CURRENT STANDARD SPECIFICATIONS.
7. ALL WELDS SHALL BE A MINIMUM OF 1/4" FILLET AND SHALL CONFORM TO THE SPECIFICATIONS FOR HIGHWAY CONSTRUCTION AND TO THE AWS STRUCTURAL WELDING CODE. ELECTRODES SHALL BE COMPATIBLE TO THE DIFFERENT GRADES OF STEEL THAT COMPOSE THE GRATE MEMBERS.
8. CAST GRATES SHALL BE CAST STEEL CONFORMING TO THE REQUIREMENTS OF AASHTO M-103 GRADE 85-35 OR OF DUCTILE IRON CONFORMING TO THE REQUIREMENTS OF ASTM A-536, SPECIAL GRADE 60-40-15, OR OF GRAY IRON CONFORMING TO THE REQUIREMENTS OF AASHTO M-100, CLASS 30E OR ASTM A-48 CLASS 30B. THE SPECIFICATIONS OF GENERAL APPLICATION FOR CAST STEEL GRATES SHALL BE AASHTO M-103 SCOPE 1.2.1, GRADE N-1.
9. REINFORCING GRATES SHALL BE OF UNIFORM QUALITY, FREE OF BURRHOLES, POROSITY, HARD SPOTS, SPRINGAGE DISTORTION OR OTHER DEFECTS. THEY SHALL BE SMOOTH AND WELL CLEANED BY SHOT BLASTING OR OTHER APPROVED CLEANING METHOD AFTER CLEANING THEY SHALL BE COATED WITH ASPHALTIC BACK PAINT RESULTING IN A SMOOTH COATING, TOUGH AND TENACIOUS WHEN CURED, NOT TACKY NOR BRITTLE.
10. ALL CASTINGS SHALL BE MANUFACTURED TRUE TO PATTERN COMPONENT PARTS SHALL FIT TOGETHER IN A SATISFACTORY MANNER.
11. ALL CONCRETE TO BE 3000 P.S.I., CHAMFER ALL EXPOSED EDGES 1/4". ALL DIMENSIONS RELATING TO REINFORCING STEEL ARE TO CENTER OF BARS.
12. MINIMUM CONCRETE COVER SHALL BE 1 1/2" FOR STEEL REINFORCING.
13. EXPANSION MATERIAL TO BE 1/2" BITUMINOUS FIBER AND TO BE PLACED WHERE PROPOSED CONCRETE COMES IN CONTACT WITH ANY EXISTING OR PROPOSED CONCRETE OR MASONRY STRUCTURE.
14. STRUCTURAL STEEL SHALL BE SHOP PAINTED IN ACCORDANCE WITH T.H.D. ITEM 446 PAINT AND PAINTING.
15. SURFACE OF ALL EXPOSED CONCRETE SHALL CONFORM IN SLOPE AND GRADE TO EXISTING OR PROPOSED CURB AND WALK ADJACENT TO INLETS.
16. ALL REINFORCING BARS TO BE #4 BARS AT 6" O.C. GRADE 60. BEND BARS AROUND PIPE OPENINGS.
17. INLETS TO BE DESIGNATED IN PLANS BY NUMBER OF GRATES REQUIRED.
18. LOCATION OF SEWER PIPES SHOW ELSEWHERE IN PLANS.
19. 1 1/2" DIA. x 4' LONG CONC. ANCHOR STUDS REQUIRED FOR EACH SIDE OF FRAME, WHERE RESTING ON CONCRETE, USE NELSON STUDS OR EQUAL.
20. THE GRATES OF ALL INLETS WITHIN THE STREET PAVEMENT MUST BE CONSTRUCTED WITH THE GRATE BARS PERPENDICULAR TO THE CURB.
21. EXCAVATION WHICH WILL EXCEED FIVE (5) FEET IN DEPTH SHALL PROVIDE FOR TRENCH SAFETY AS PER OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) GUIDELINES.



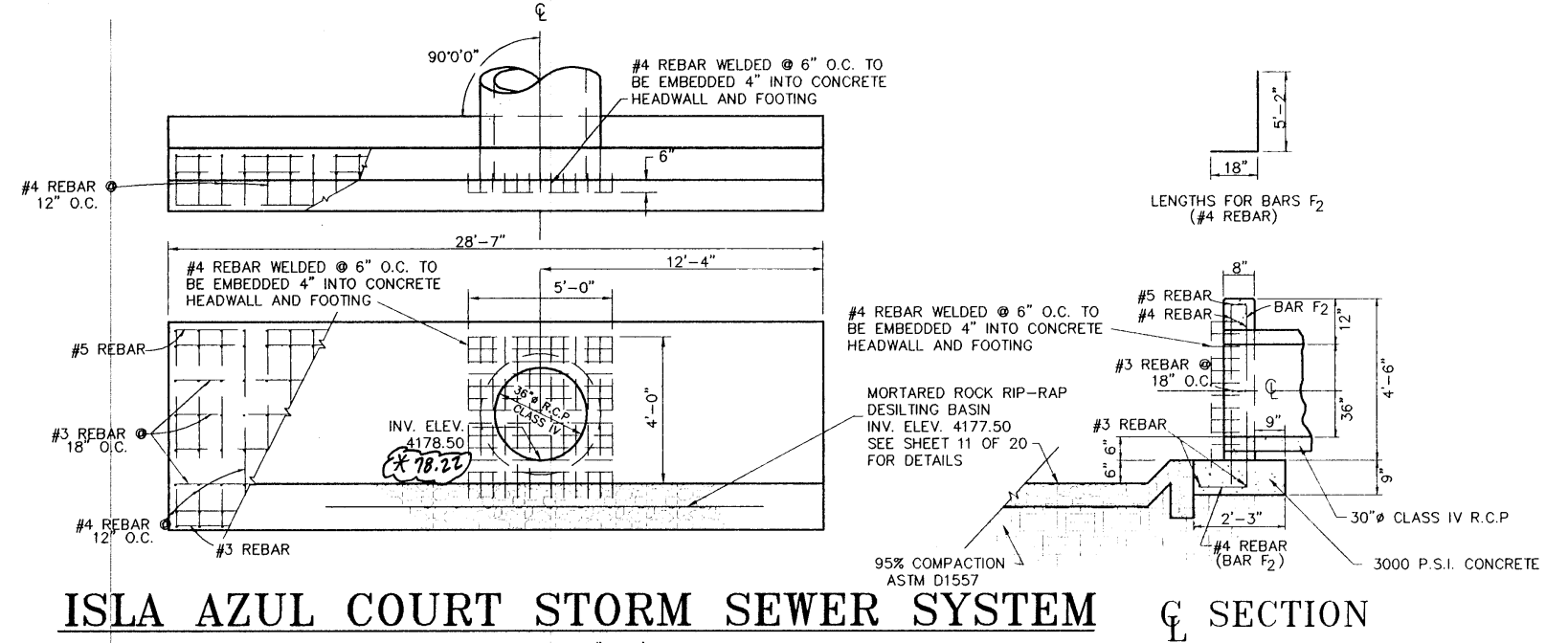
SECTION B - B



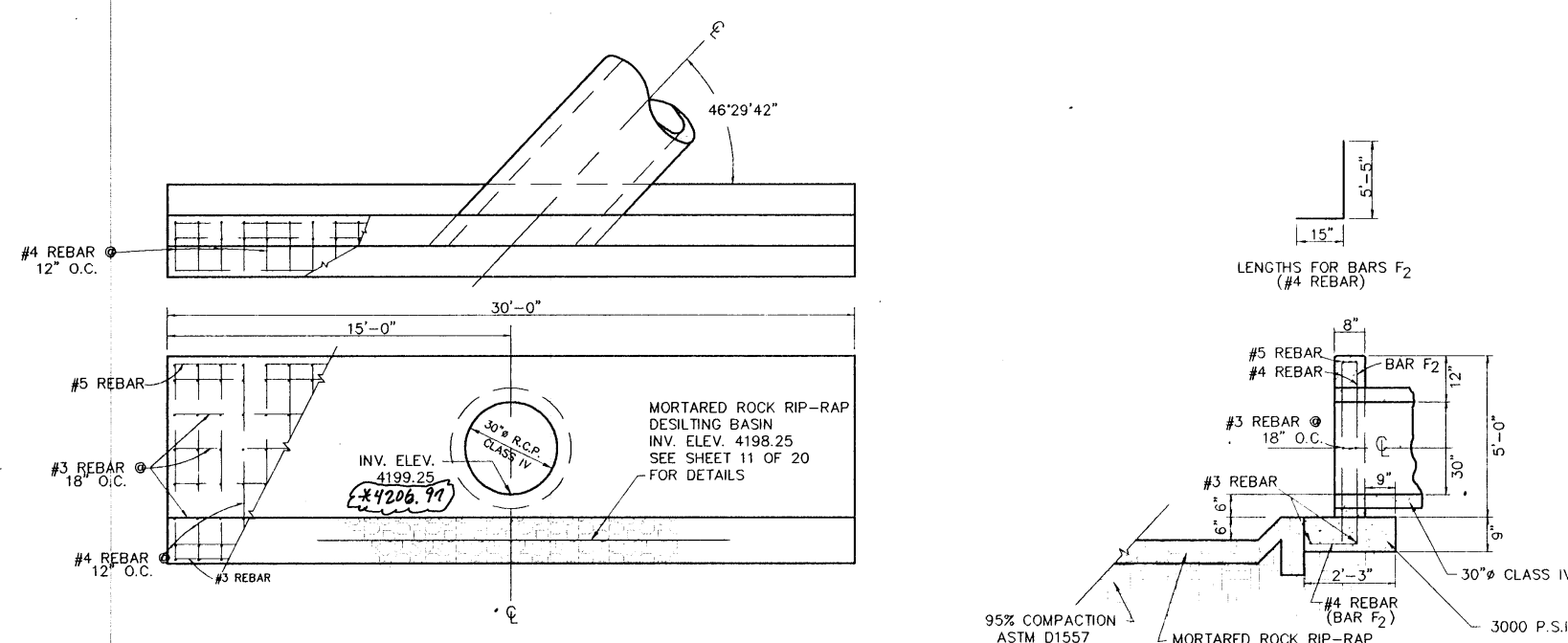
FRAME DETAIL

AS-BUILT
APRIL 15, 1996

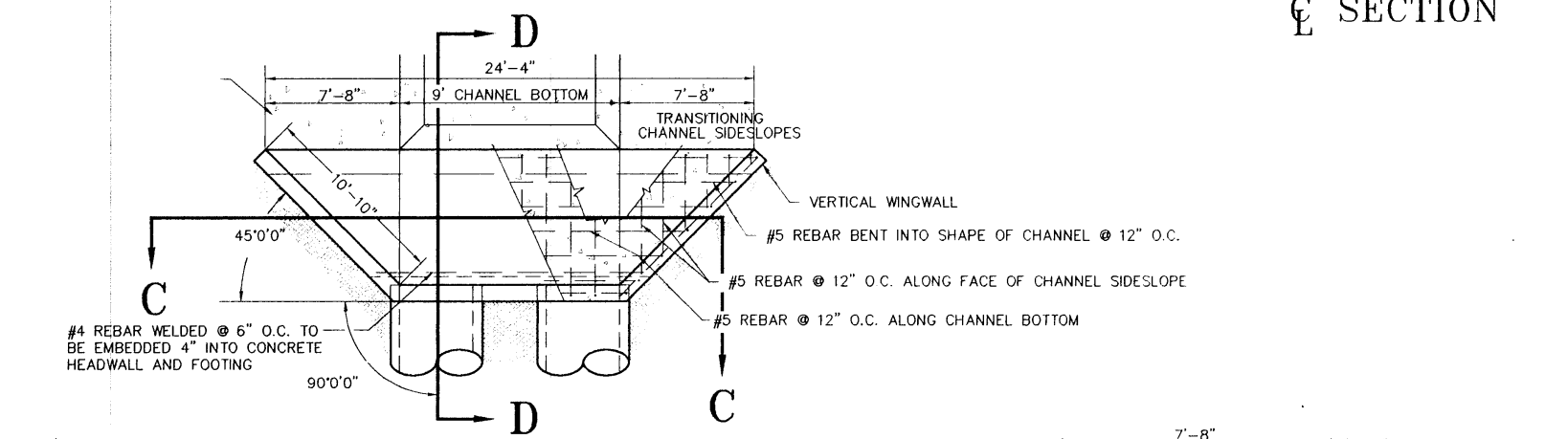
REVISIONS: 4/17/96 - ADDED NOTE - STORM SEWER FOUR - DLM
4/17/96 - ADDED AS-BUILT ELEVATIONS - DLM



ISLA AZUL COURT STORM SEWER SYSTEM



STORM SEWER SYSTEM NUMBER 3



SECTION C - C

STORM SEWER SYSTEM NUMBER 4

STORM SEWER CONCRETE HEADWALL DETAILS

SCALE: AS NOTED

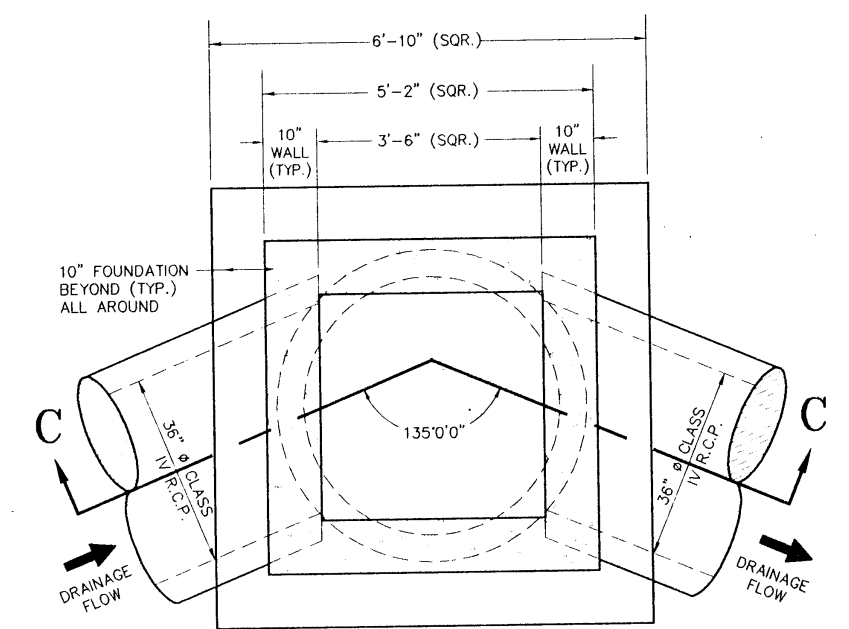
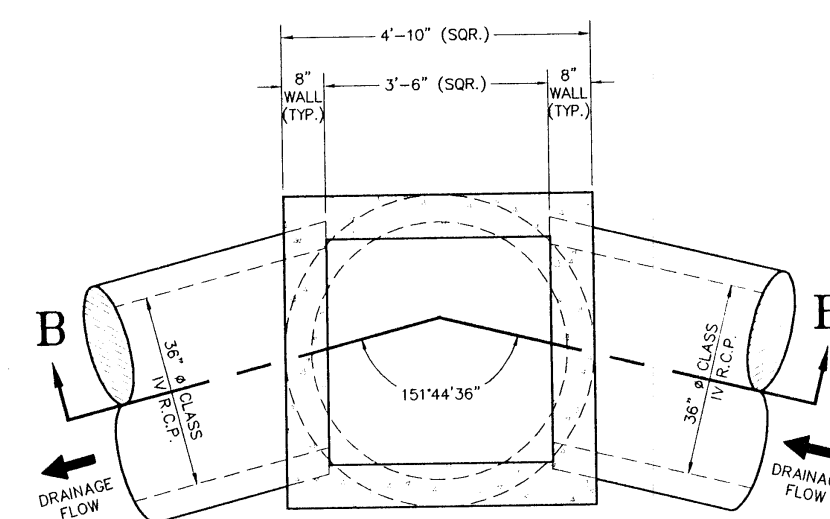
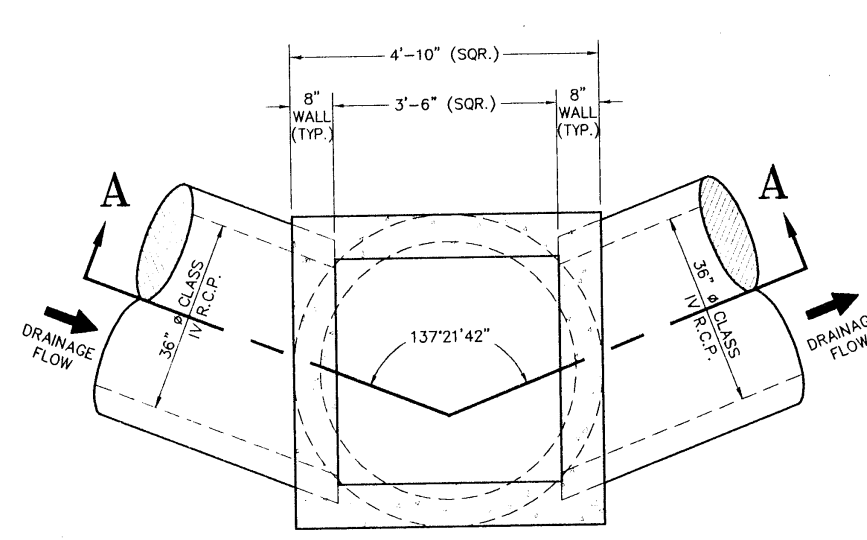
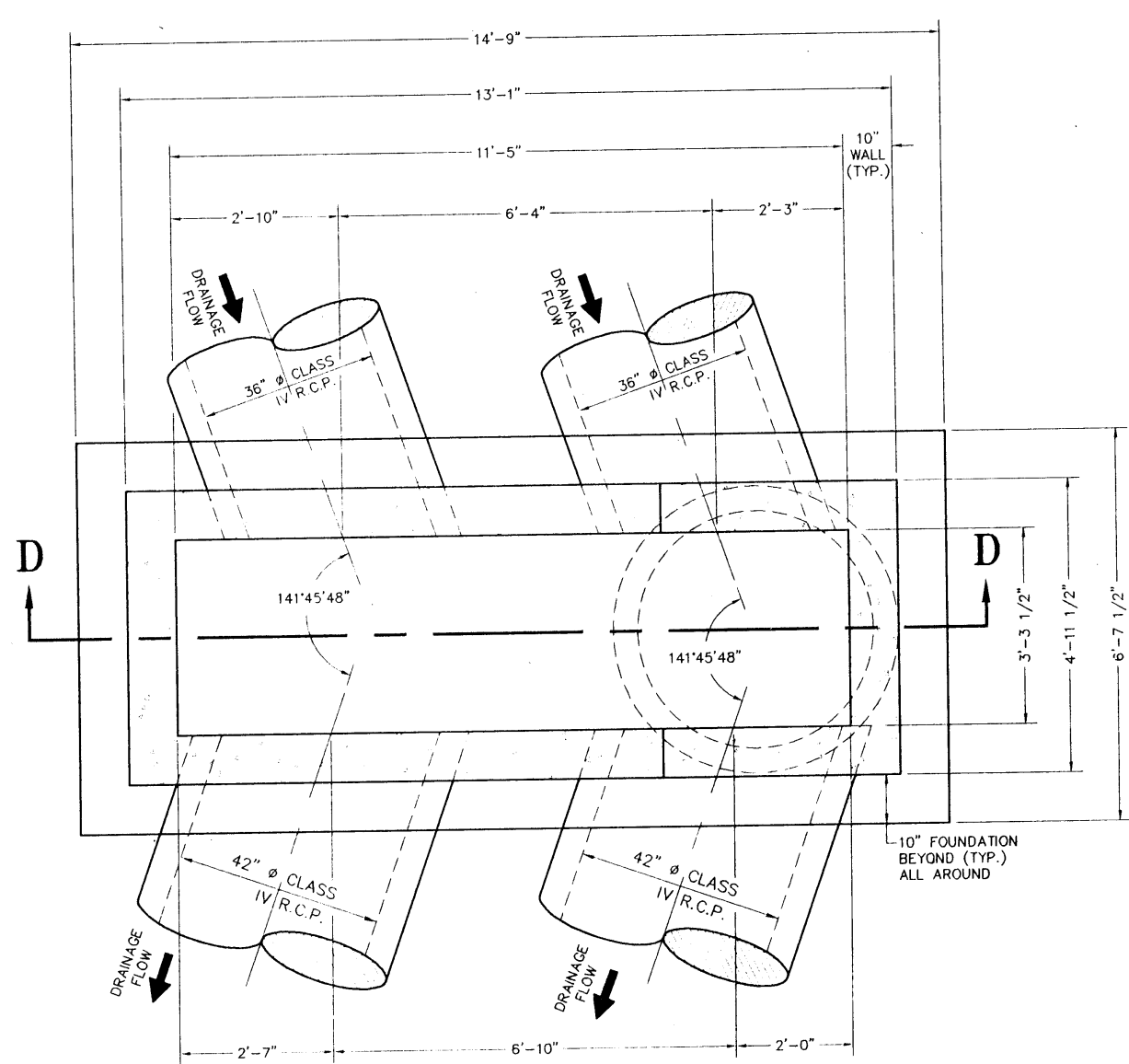
HOR:	AS NOTED
VER:	N/A
W.D.:	101994-6
FILE:	CH37C00T.DWG
DATE:	JANUARY 13, 1995
DESIGN BY:	STAFF
DRAWN BY:	STAFF
CHKD. BY:	H.P. / STAFF
APPD. BY:	B.S. / H.P.

DETAILS
CHAPARRAL PARK SUBDIVISION
UNIT 37
CURB TO CURB DROP INLET AND
STORM SEWER HEADWALLS

hnp roe and associates
201 N. GILMAN ST. SUITE 104 E. P.O. BOX 74, 79002
(817) 533-1410 FAX: (817) 533-4978
ENGINEERING/LAND DEVELOPMENT/PLANNING/SURVEYING

SHEET 8 OF 20

000415

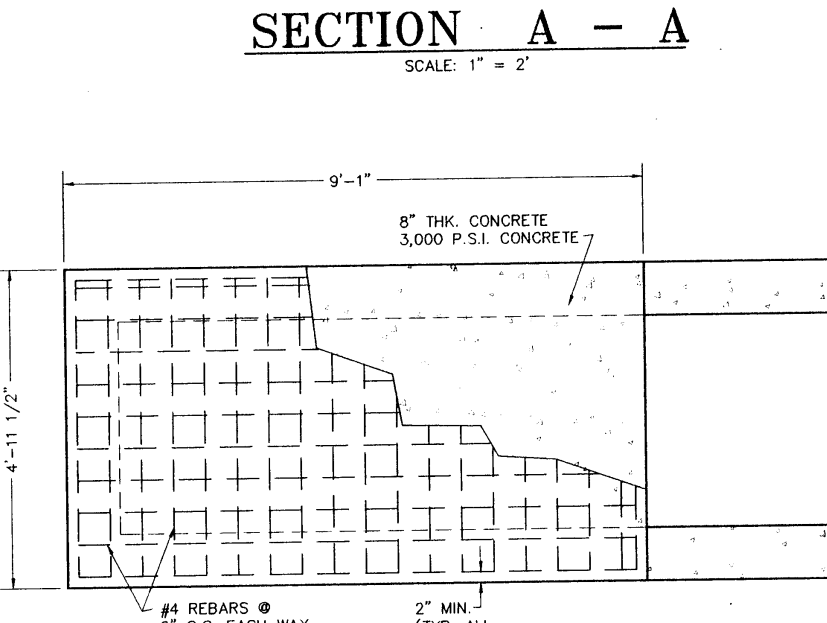
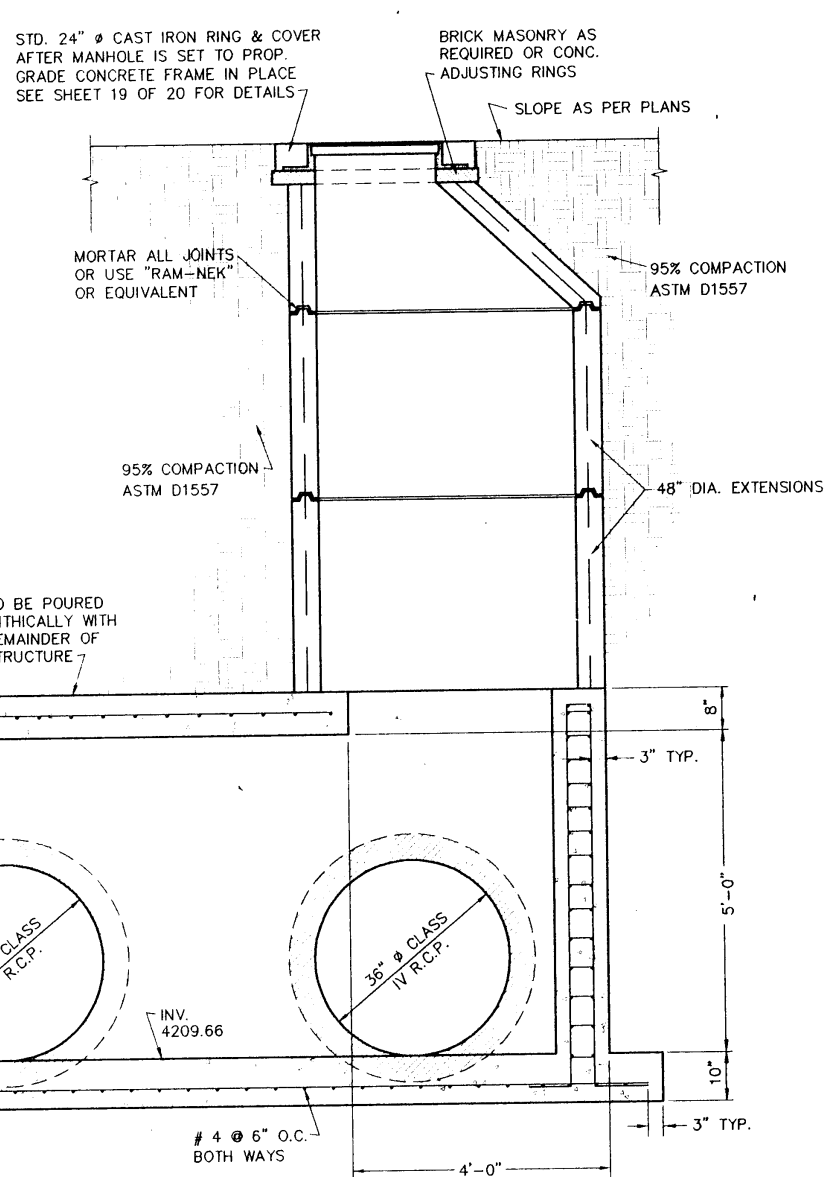
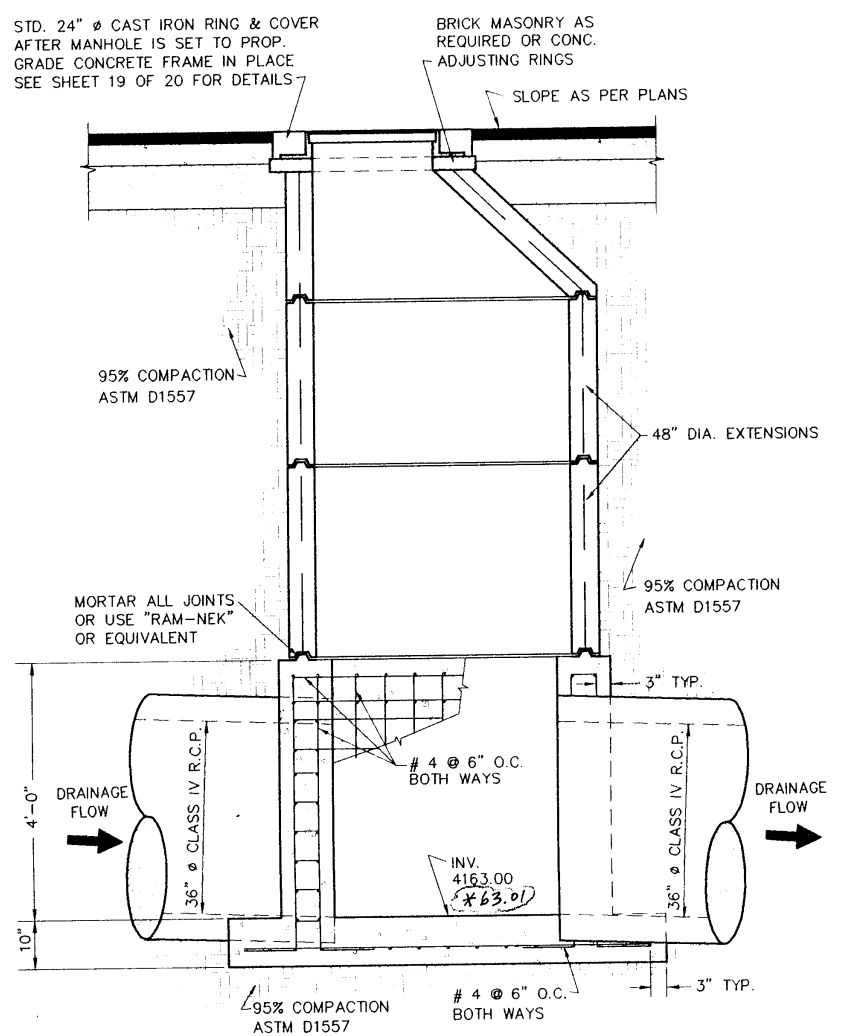
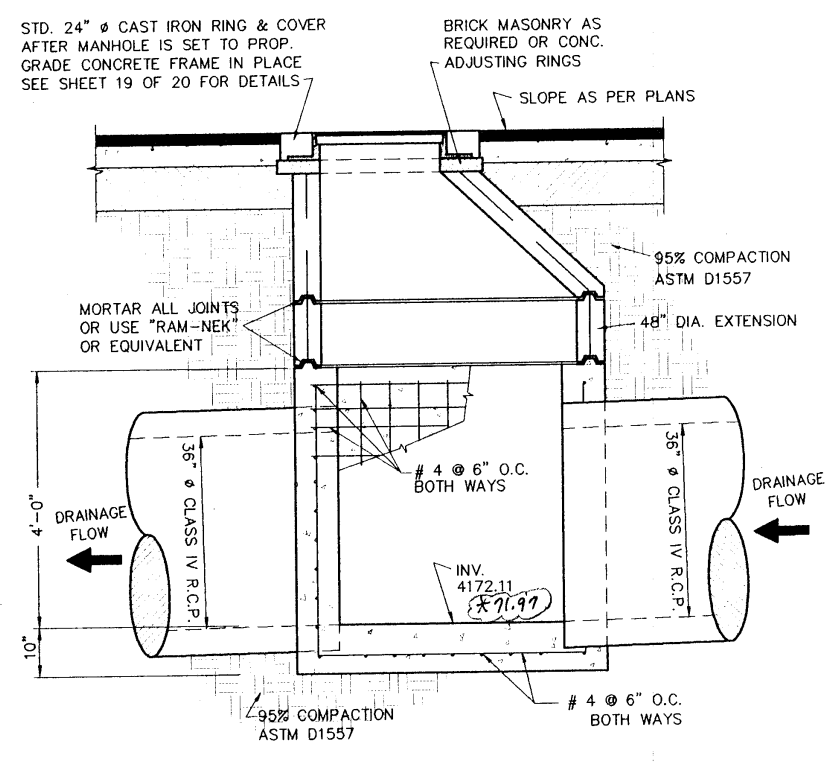
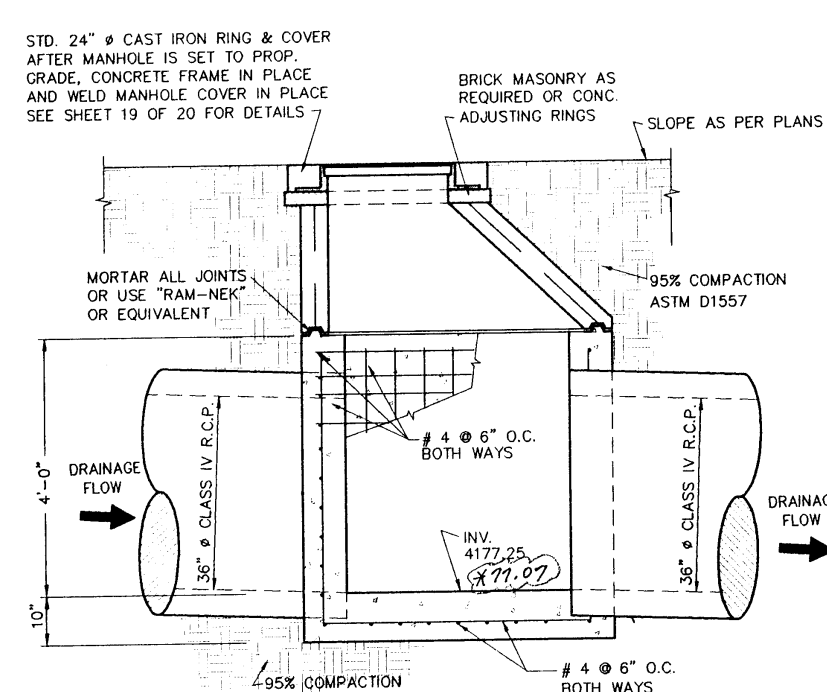


PLAN VIEW CAST IN PLACE
BASE-MANHOLE 1

PLAN VIEW CAST IN PLACE
BASE-MANHOLE 2

PLAN VIEW CAST IN PLACE
BASE-MANHOLE 3

PLAN VIEW CAST IN PLACE
BASE-MANHOLE 4



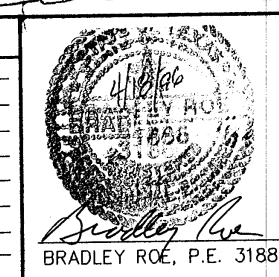
REBAR REINFORCING PLAN
TOP VIEW-MANHOLE 4

AS-BUILT
APRIL 15, 1996

MANHOLE	STREET STATION	STREET	RIM ELEVATION (ft.)	INVERT ELEVATION (ft.)	DEPTH (ft.)
MANHOLE 1	NOT APPLICABLE	ISLA AZUL CT. STORM SEWER SYSTEM	4183.75 (88.77)	4122.25 (86.97)	6.50 (21.0)
MANHOLE 2	1+65.89	ISLA AZUL CT.	4179.75 (87.77)	4121.11 (86.82)	5.64 (18.3)
MANHOLE 3	28+30.22	DUO DE AGUA DR.	4172.18 (83.87)	4163.00 (82.06)	9.18 (29.8)
MANHOLE 4	NOT APPLICABLE	STORM SEWER SYSTEM #4	4224.08 (90.82)	4208.66 (88.06)	15.42 (50.6)

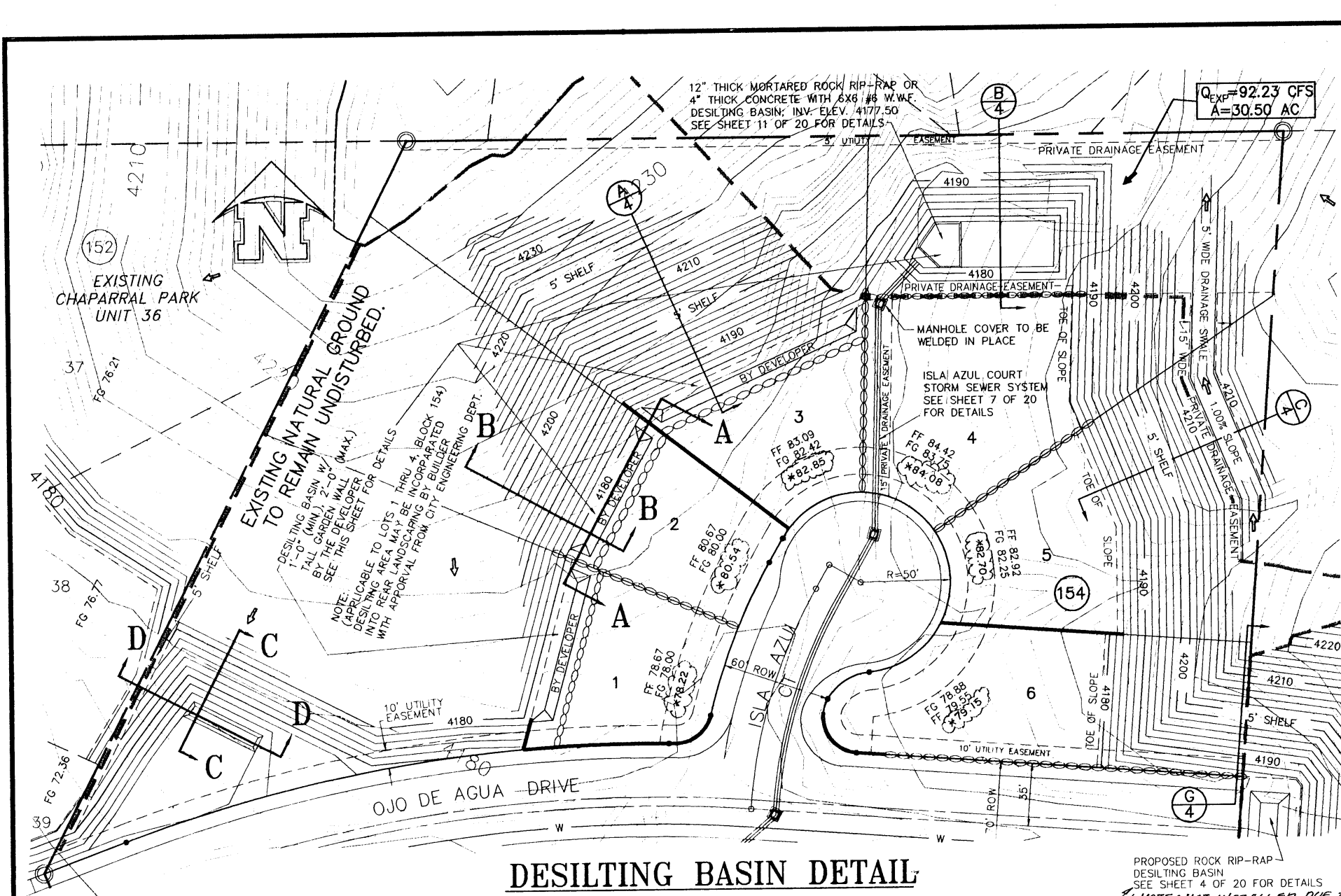
- MANHOLE NOTES**
- THE FLAT SLAB OPENING SHALL BE CONCENTRIC WHERE NO LADDER RUNGS ARE REQUIRED; AND SHALL BE ADAPTED TO THE 48" OR 72" RING AT ONE END, AND TO THE CITY OF EL PASO STANDARD CAST IRON FRAME AT THE OTHER.
 - THE PRE-CAST CONCRETE SHALL HAVE A MINIMUM ALLOWABLE COMPRESSIVE STRENGTH AT 28 DAYS OF 4,000 POUNDS PER SQUARE INCH.
 - THE RING SECTIONS SHALL BE REINFORCED WITH STEEL WIRE MESH 6x6x10/10 AND THE CONICAL SECTION SHALL HAVE 6x6x10/10 STEEL WIRE MESH REINFORCEMENT AND 3/8" ROD AT TOP AND BOTTOM. (SEE A.S.T.M. STANDARD PART 15.1-176)
 - THE BASE SHALL BE 3,000 POUNDS PER SQUARE INCH CONCRETE AT 28 DAYS POURED ON UNDISTURBED OR THOROUGHLY COMPACTED SUB-BASE TO 95%.
 - MASONRY TO BE COMMON BRICK Laid UP WITH 1:3 MORTAR.
 - 95% COMPACTION ON BACKFILL.

DATE	REVISIONS	BY	SCALE
4/1/96	ADDED AS-BUILT ELEVATIONS	DLM	AS NOTED
4/1/96	ADDED NOTE- STORM SEWER SYSTEM FOUR	DLM	N/A
			W.O. 101994-6
			FILE: CH17MDT.DWG
			DATE: JANUARY 13, 1995
			DESIGN BY: STAFF
			DRAWN BY: STAFF
			CHECK BY: H.P. J. STAFF
			APPD. BY: B.R. / H.P.

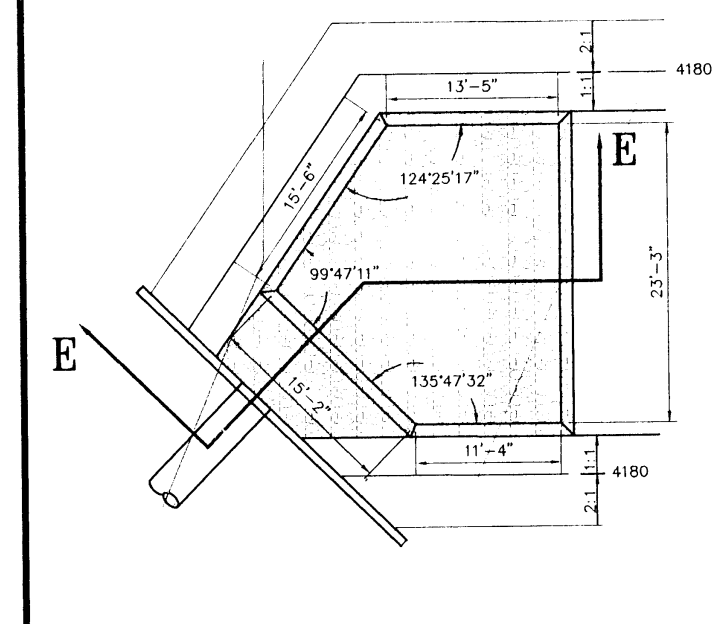


DETAILS
CHAPARRAL PARK SUBDIVISION
UNIT 37
MANHOLES

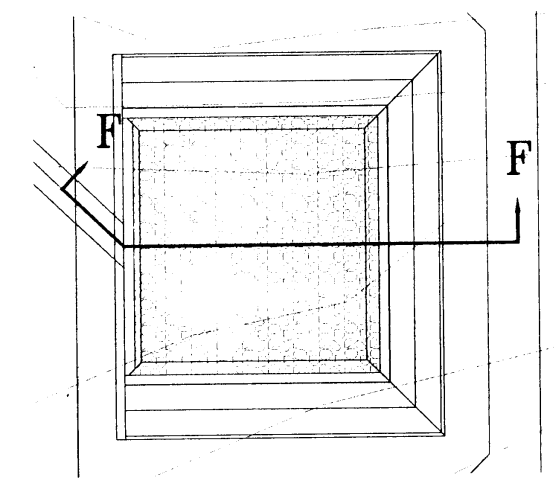
brp roe and associates
601 N. Collins St. Suite 308 El Paso, TX 79902
(915) 533-1418 FAX (915) 533-4878
ENGINEERING/LAND DEVELOPMENT/PLANNING/SURVEYING
SHEET 10 OF 20



DESILTING BASIN DETAIL
(PLAN VIEW)
SCALE: 1" = 50'

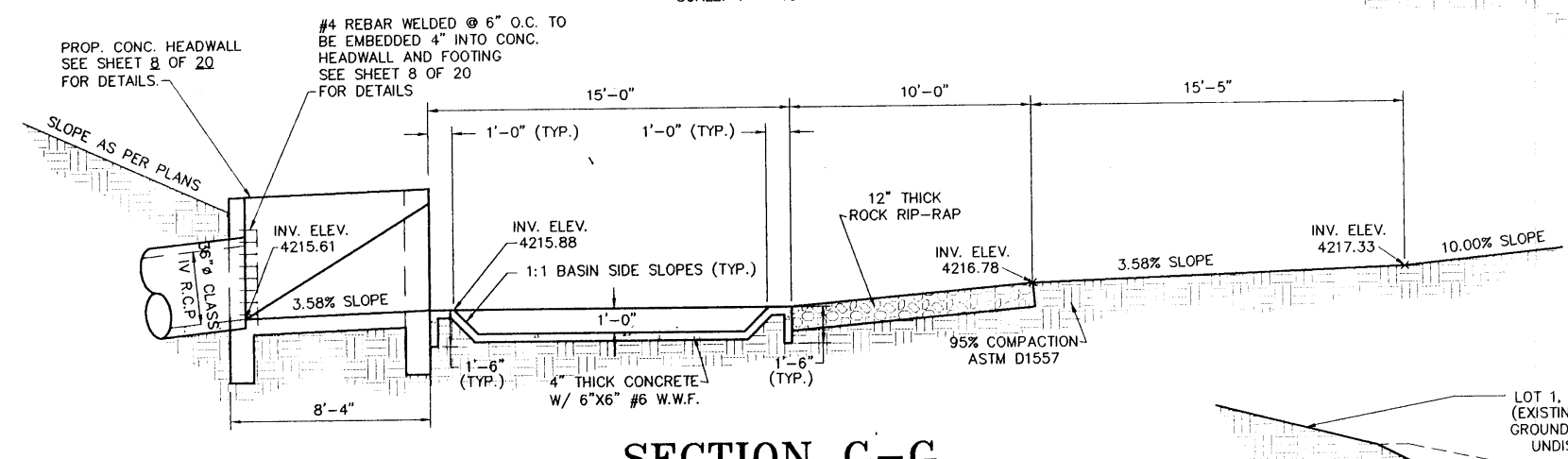


DESILTING BASIN @ ISLA AZUL COURT STORM SEWER SYSTEM
(PLAN VIEW)
SCALE: 1" = 10'

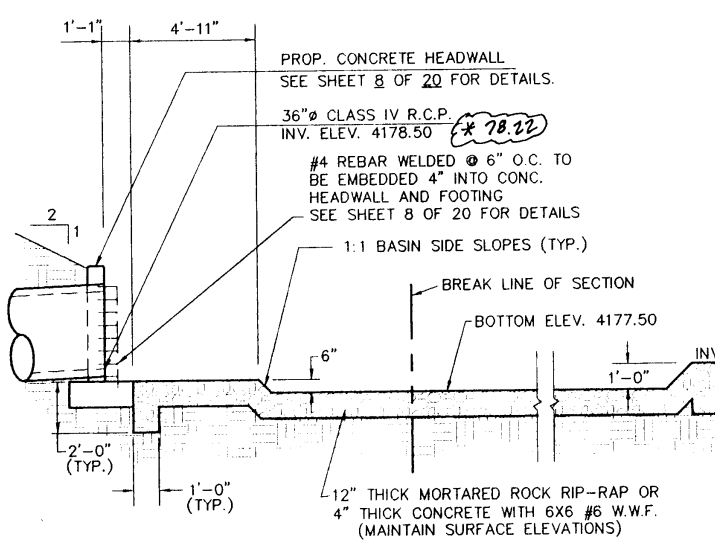


DESILTING BASIN @ STORM SEWER SYSTEM #3
(PLAN VIEW)
SCALE: 1" = 10'

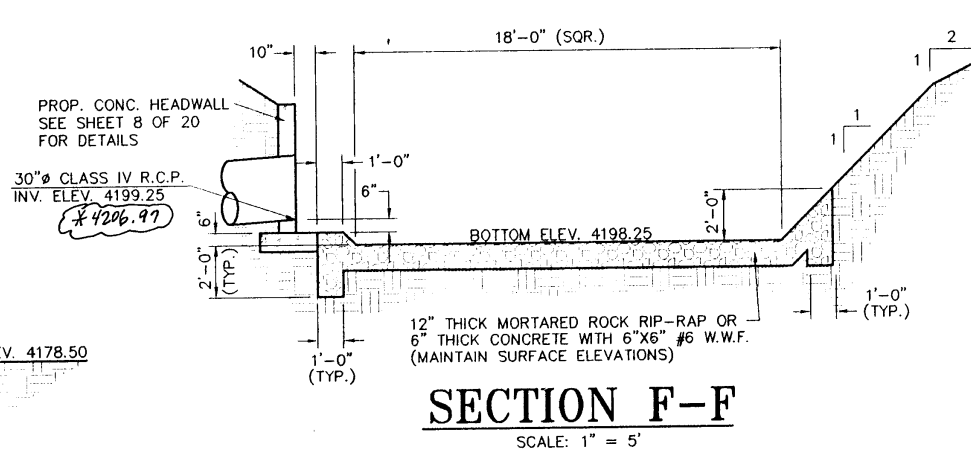
DESILTING BASIN @ STORM SEWER SYSTEM #4
(PLAN VIEW)
SCALE: 1" = 10'



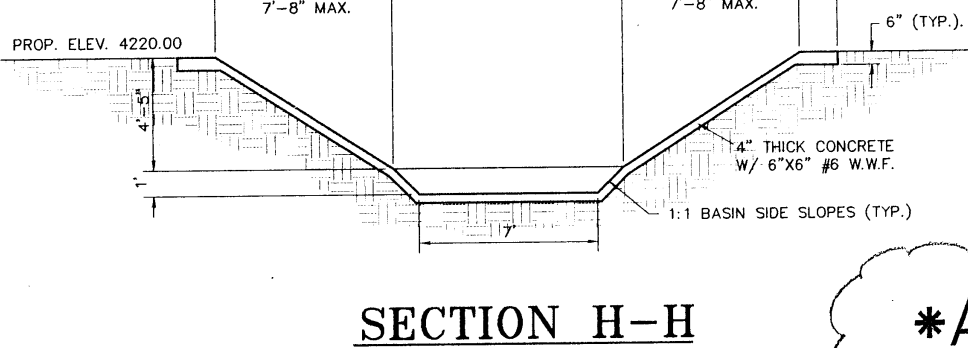
SECTION G-G
SCALE: 1" = 5'



SECTION E-E
SCALE: 1" = 5'

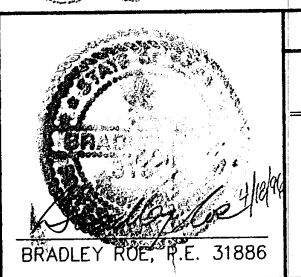


SECTION F-F
SCALE: 1" = 5'



SECTION H-H
SCALE: 1" = 5'

AS BUILT
AUGUST 3, 1995



SCALE	
HOR:	AS NOTED
VER:	N/A
W.O.	101994-6
FILE:	CH37BASIN.DWG
DATE:	JANUARY 13, 1995
DESIGN BY:	STAFF
DRAWN BY:	STAFF
CHKD. BY:	H.E.P.
APPD. BY:	B.R.

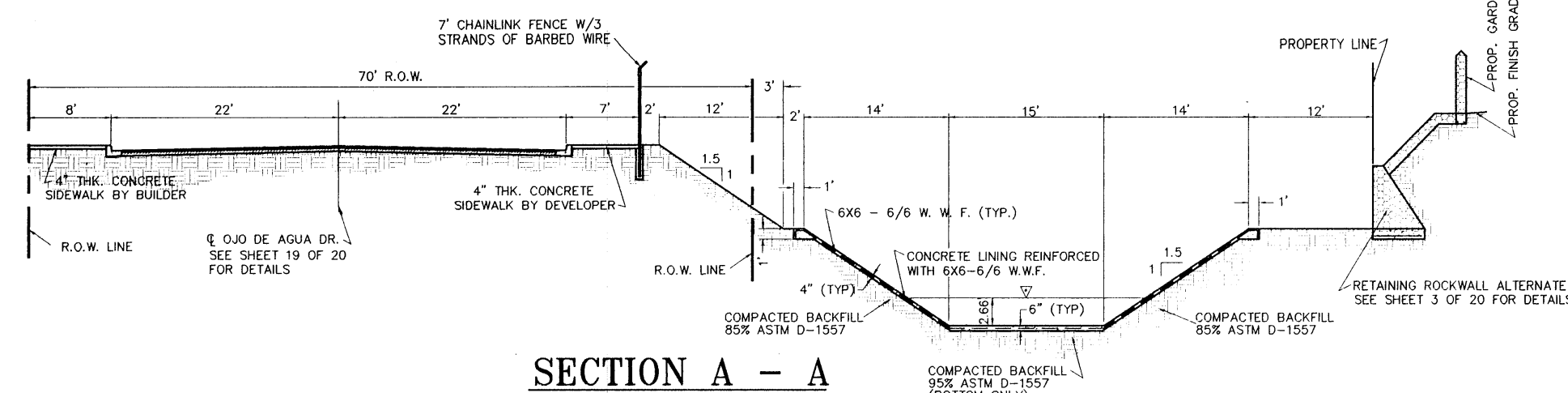
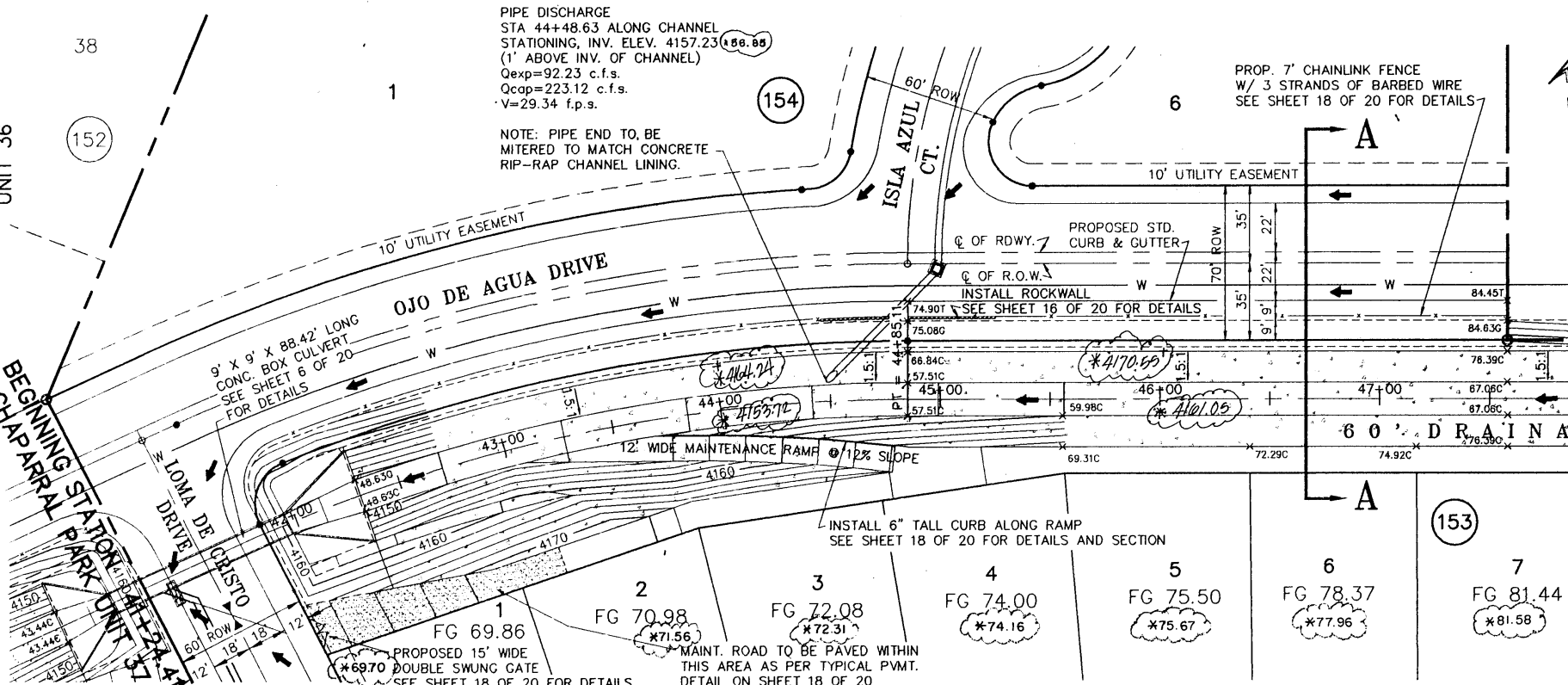
DETAILS	
CHAPARRAL PARK SUBDIVISION UNIT 37	
PRIVATE DRAINAGE EASEMENT AND DESILTING BASINS	

bhp roe and associates	
802 S. GARDEN ST. SUITE 400 B. FURN. TX. 76905	
(817) 533-1418	FAX: (817) 533-4872
ENGINEERING/LAND DEVELOPMENT/PLANNING/SURVEYING	
SHEET	11 OF 20

4/17/95 - ADDED NOTE - STORM SEWER #4 - PLAN
8/17/95 - ADDED AS-BUILT ELEVATIONS - 31886 - (E.P. M.)
REVISED BASIN - ADDED AS-BUILT ELEVATIONS - P.A.M.C. - (L.R.S.)

6004143

EXISTING CHAPARRAL PARK UNIT 36
 BEGINNING STATION 41+00
 CHAPARRAL PARK UNIT 37

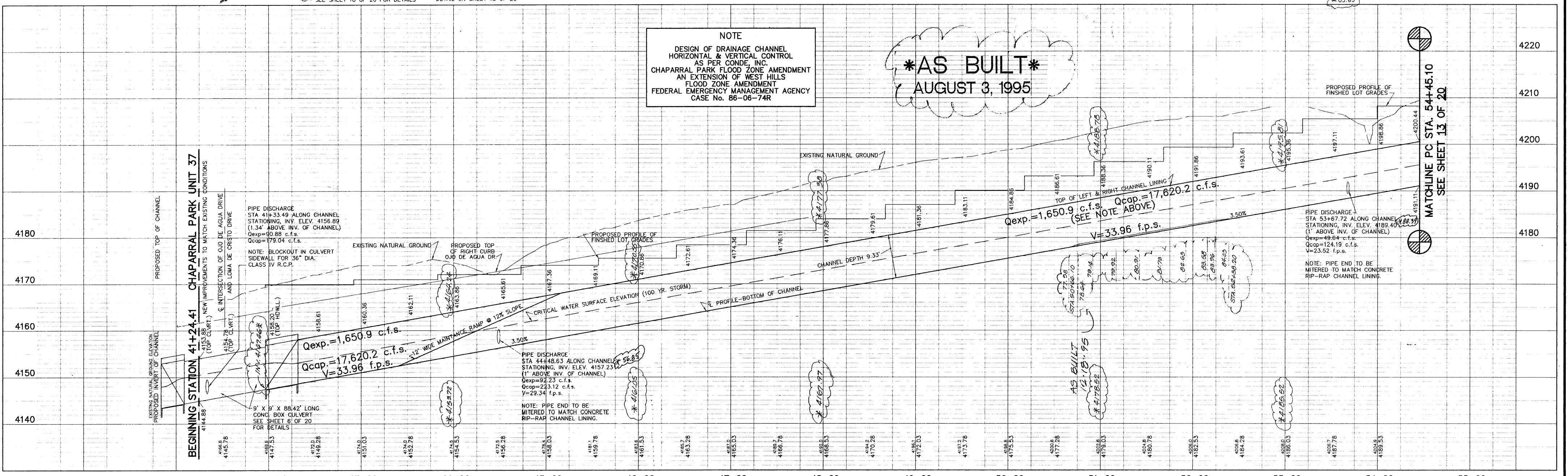


CAUTION: EXISTING 24" Ø EL PASO WATER UTILITIES WATER MAIN. ANY/ALL GRADING ON OJO DE AGUA DR. MUST BE COORDINATED WITH EL PASO WATER UTILITIES. CONTACT: MR. ALFONSO ORTIZ, 594-5527

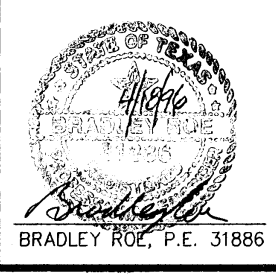
A PORTION OF TRACT 8, H.C. FOSTER SURVEY No. 257

NOTE
 DESIGN OF DRAINAGE CHANNEL
 HORIZONTAL & VERTICAL CONTROL
 CHAPARRAL PARK FLOOD ZONE AMENDMENT
 AN EXTENSION OF WEST HILLS
 FLOOD ZONE AMENDMENT
 FEDERAL EMERGENCY MANAGEMENT AGENCY
 CASE No. 86-08-74R

AS BUILT
 AUGUST 3, 1995

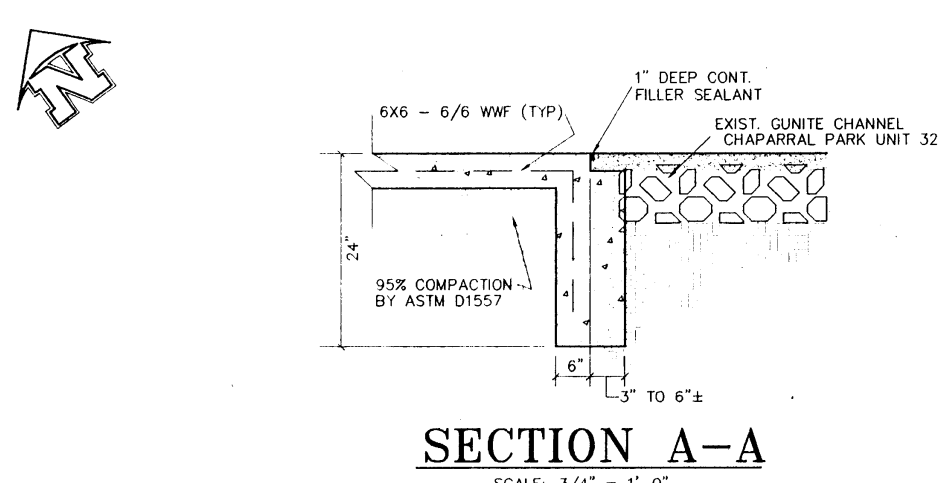


DATE	REVISIONS	BY	BENCHMARK	SCALE	PLAN AND PROFILE
8/19/95	AS-BUILT ELEVATIONS	DAMC	BENCHMARK: CITY MONUMENT LOCATED AT THE CENTERLINE INTERSECTION OF BRISA DEL MAR DRIVE AND EL SEGUNDO DRIVE, ELEVATION 4221.01 (CITY DATUM)	HOR: 1" = 50' VER: 1" = 10' W.G.: 101994-S FILE: CH137CHNL.DWG DATE: JANUARY 13, 1995 DESIGN BY: STAFF CHKD BY: H.P. APPR. BY: B.R.	CHAPARRAL PARK SUBDIVISION UNIT 37 DRAINAGE CHANNEL PLAN AND PROFILE FROM STA. 40+48.50 TO STA. 54+45.10 SHEET 12 OF 20

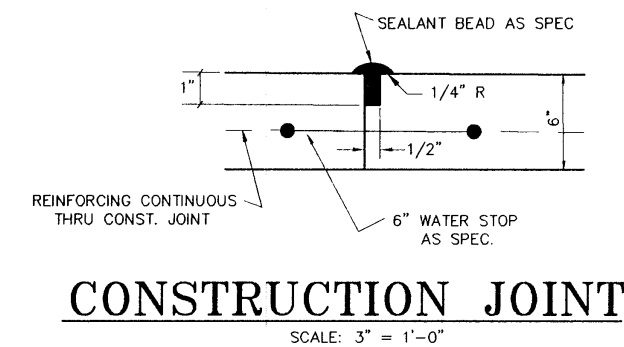


brp **roe and associates**
 801 N. Custer St., Suite 800, Ft. Worth, TX 76102
 (817) 533-1418 FAX: (817) 533-4972
 ENGINEERING/LAND DEVELOPMENT/PLANNING/SURVEYING

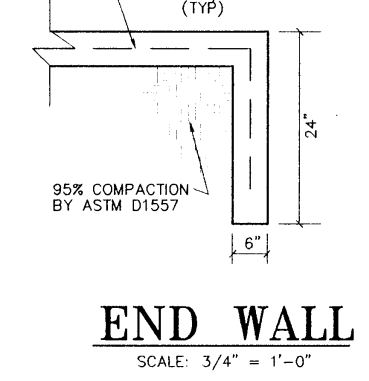
I:\PROJECTS\CHAPARRAL\CHAPARRAL.DWG 12/13/95 10:15:15 AM



SECTION A-A
SCALE: 3/4" = 1'-0"



CONSTRUCTION JOINT
SCALE: 3" = 1'-0"



END WALL
SCALE: 3/4" = 1'-0"

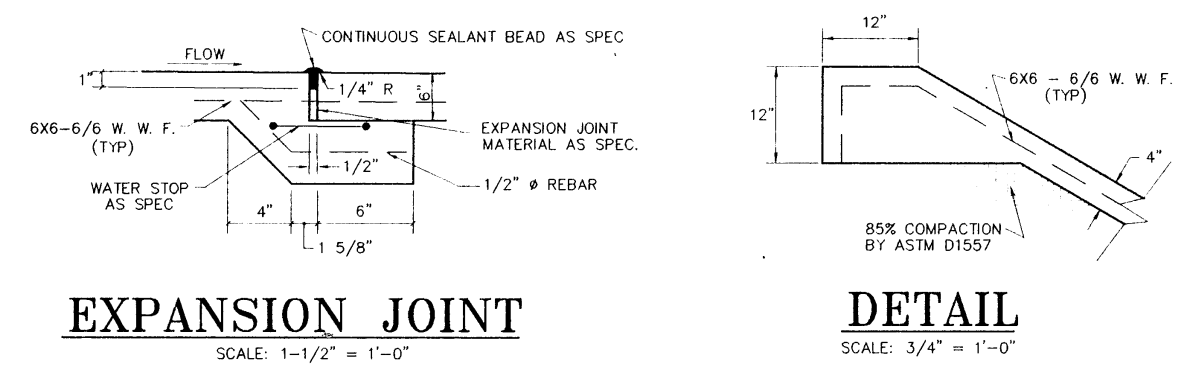
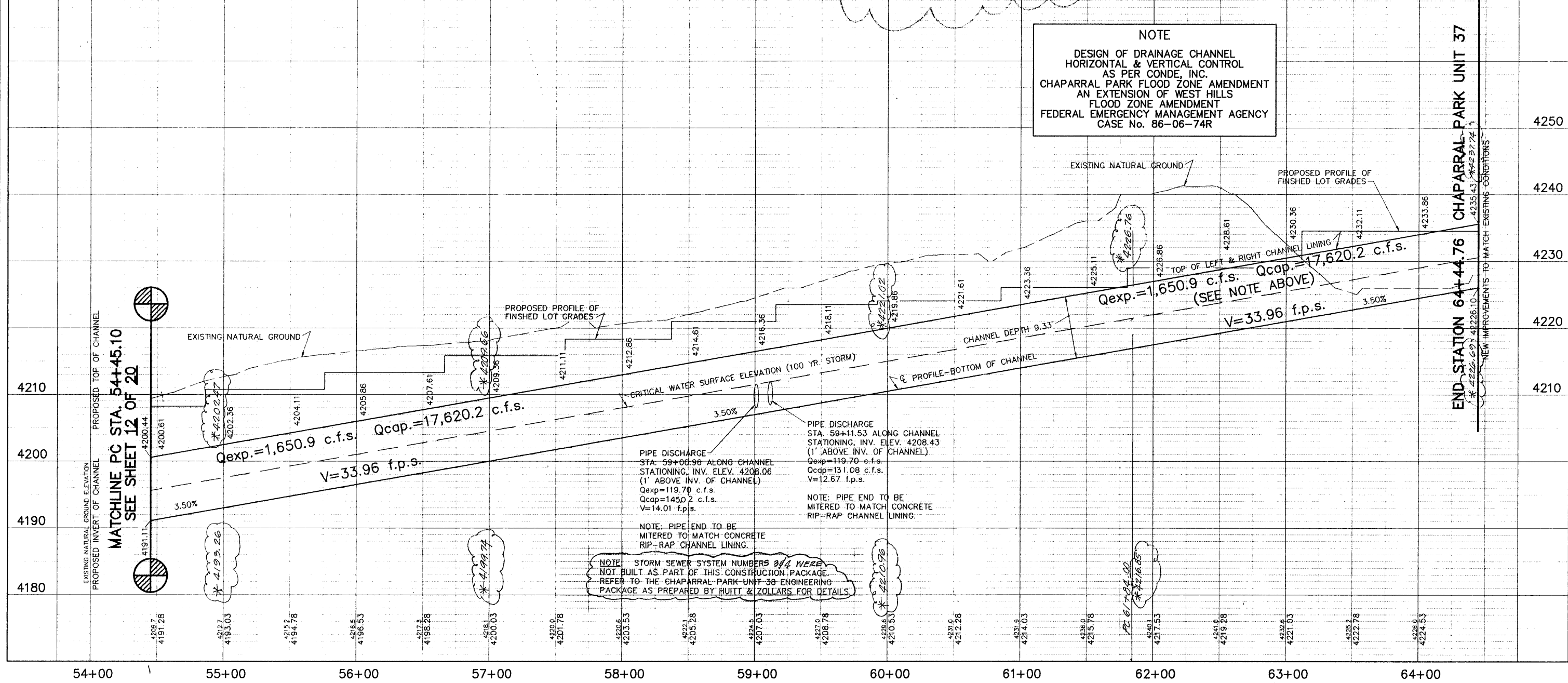
CHANNEL LINING MATERIAL SPECIFICATION

1. ALL CONCRETE FOR CHANNEL LINING TO BE FC-3000 PSI @ 28-DAYS
2. SUBGRADE PREPARATION: REMOVE VEGETATION, DEBRIS, UNSATISFACTORY MATERIALS, OBSTRUCTIONS FROM GROUND SURFACE PRIOR TO EXCAVATION FOR CHANNEL. AFTER EXCAVATING TO REQUIRED GRADE, THE EXPOSED SUBGRADE SHALL BE SLOTTED TO A MINIMUM DEPTH OF 2" AND RECOMPACTED TO A MINIMUM OF 95% OF THE MAXIMUM DENSITY FOR CHANNEL SIZES AS DETERMINED BY ASTM D-1557 COMPACTION TEST.
3. CONSTRUCTION JOINTS SHALL BE LOCATED AT 25' CENTERS MEASURED ALONG THE CENTERLINE OF CHANNEL. PER DETAIL SHOWN ON THIS SHEET.
4. EXPANSION JOINTS SHALL BE LOCATED AT 100' CENTERS MEASURED ALONG THE CENTERLINE OF CHANNEL. PER DETAIL SHOWN ON THIS SHEET.
5. END WALLS SHALL BE PLACED AT BEGINNING OF END OF CHANNEL LINING PER DETAIL 13/13.
6. EXPANSION JOINT MATERIAL: WHERE PREMOULDED EXPANSION JOINT MATERIAL IS SHOWN ON THE PLANS SUCH MATERIAL, UNLESS OTHERWISE NOTED, SHALL BE A NON-EXTRUDING AND RESILIENT BITUMINOUS JOINT FILLER COMPOSED OF ASPHALT AND GRANULATED CORK FORMED BETWEEN TWO SHEETS OF ASPHALT SATURATED FELT AND MEETING THE REQUIREMENTS OF ASTM D6900 (ASTM D1557). PREMOULDED EXPANSION JOINT MATERIAL USING CAKE OF OTHER FIBERS IN LIEU OF GRANULATED CORK IS NOT ACCEPTABLE.
7. JOINT SEALING COMPOUND: WHERE JOINTS IN CONCRETE CONSTRUCTION ARE SHOWN TO BE SEALED, THE JOINT SEALING COMPOUND SHALL BE COUPLER TWO-COMPONENT POLY-SULFIDE SEALANT SPECIFICALLY RECOMMENDED BY THE MANUFACTURER FOR USE IN SUBMERGED JOINTS. THE HANDLING, MIXING AND PLACING OF THE MATERIAL AND PREPARATION OF THE JOINT PRIOR TO SEALING SHALL BE IN STRICT ACCORDANCE WITH THE RECOMMENDATIONS OF THE MANUFACTURER. A TWO-COMPONENT EPOXY FLOOR SEALER SUITABLE FOR THE USE IN SUBMERGED JOINTS AND COMPATIBLE WITH THE SEALER SHALL BE USED IN ALL JOINTS. COMPOUND TO BE SUBMERGED OR APPROVED EQUAL.
8. POLYURETHANE CHLORIDE WATERSTOP: THE WATERSTOP SHALL BE FABRICATED FROM A PLASTIC COMPOUND, THE BASIC RESIN OF WHICH IS POLYURETHANE CHLORIDE WITH ADDITIONAL REINFORCING STABILIZERS OF OTHER MATERIALS SUCH THAT WHEN COMPOUNDED, THE MATERIAL SHALL CONFORM TO THE REQUIREMENTS OF THE CHIEF OF ENGINEERS SPECIFICATION (C-572). PVC WATERSTOP SHALL BE OF THE SERRATED, CENTER-BULB TYPE. FOUR-INCH WATERSTOP SHALL HAVE A MINIMUM THICKNESS OF 3/16" WITH A 1/4" INCH INSIDE DIAMETER CENTER BULB SIX-INCH AND LARGER WATERSTOP SHALL HAVE A MINIMUM THICKNESS OF 5/16" WITH A 1/4" INCH INSIDE DIAMETER CENTER BULB. INSTALLATION SHALL INCLUDE SPACING, JOINTS, AND INTERSECTIONS, SHALL BE IN STRICT ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS, AS APPROVED BY THE ENGINEER.
9. PLACEMENT OF WATERSTOP: WATERSTOP IS CUT SQUARE, THEN JOINED WITH WILLIAMS EVERLASTIC FITTINGS AND WILLIAMS NO. 37 ADHESIVE PER INSTRUCTIONS. INSTALLATION OF WATERSTOP SHOWN ABOVE INVOLVES SPLIT FORMS. THE WATERSTOP IS TO BE PLACED IN A POSITION THAT THE BULB WILL BE MIDDLE IN EACH OF TWO ADJOINING SLABS OR WALLS. THE WATERSTOP SHALL BE HELD IN PLACE WITH A BLOCK OF OTHER SUITABLE MATERIALS ON THE OUTSIDE OF THE SPLIT FORM (LAWY FROM THE CONCRETE THAT IS TO BE POURED). AFTER THE CONCRETE HAS SET, THE SPLIT FORMS AND BLOCK MAY BE REMOVED. WHEN THE ADDING POUR IS MADE, CARE SHOULD BE TAKEN TO SUPPORT THE WATERSTOP.

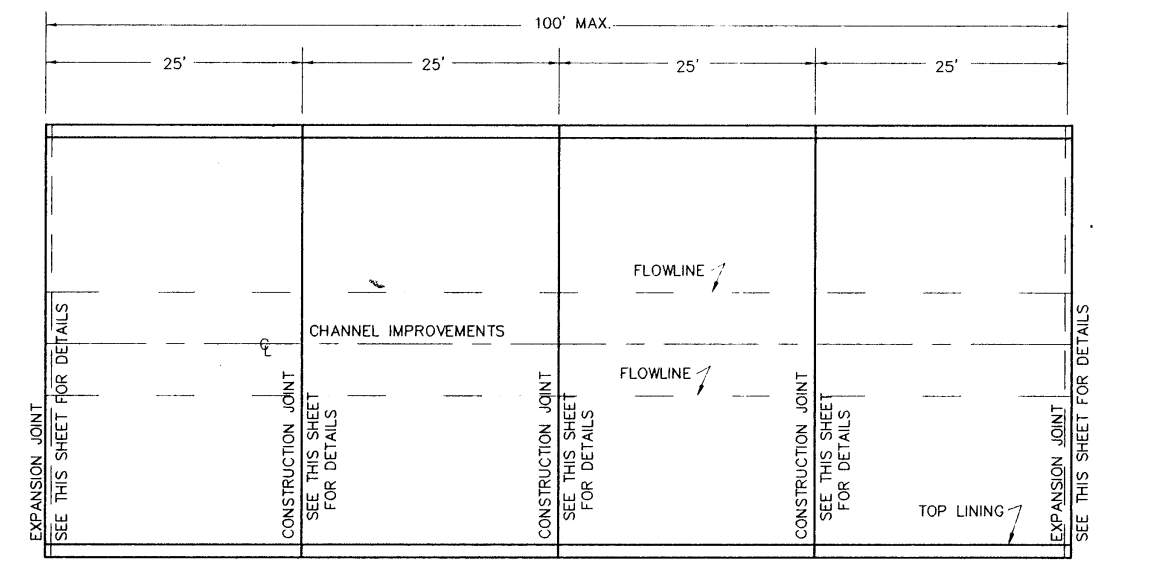
A PORTION OF TRACT 8,
H.G. FOSTER SURVEY No. 257

CAUTION: EXISTING 24" Ø EL PASO WATER UTILITIES WATER MAIN. ANY/ALL GRADING ON OJO DE AGUA DR. MUST BE COORDINATED WITH EL PASO WATER UTILITIES. CONTACT: MR. ALFONSO ORTIZ, 594-5527

AS BUILT
AUGUST 3, 1995



EXPANSION JOINT DETAIL
SCALE: 1-1/2" = 1'-0"



CONCRETE PLACEMENT DETAIL
SCALE: 1" = 10"
(PLACEMENT TO BE COORDINATED W/ CONTRACTOR)

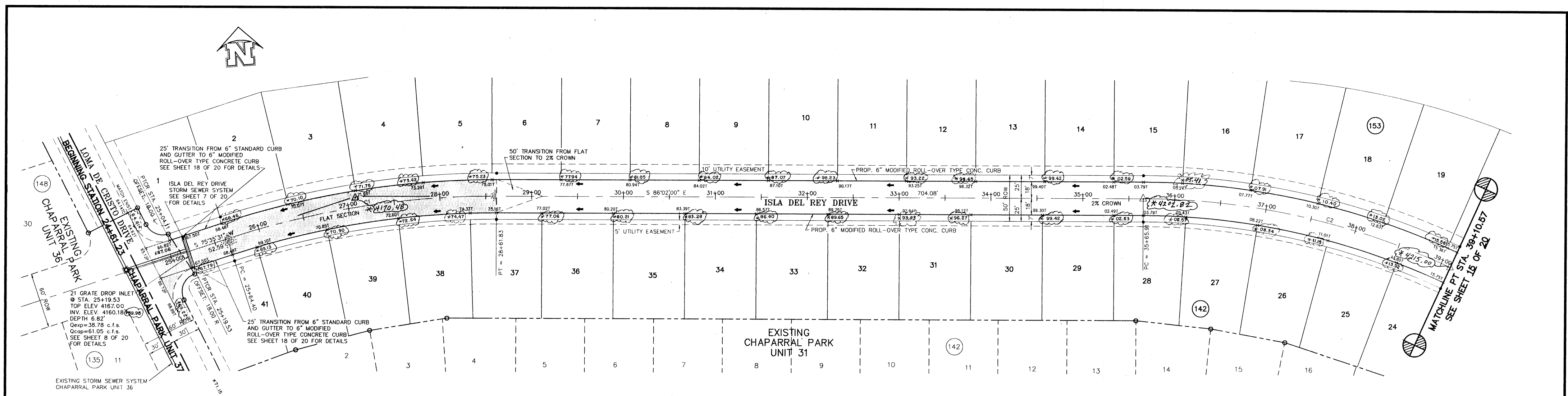
DATE	REVISIONS	BY	BENCHMARK	SCALE
8/1/95	ADDED AS-BUILT ELEVATIONS	D.M.C.	BENCHMARK: CITY MONUMENT LOCATED AT THE CENTERLINE INTERSECTION OF BRISA DEL MAR DRIVE AND EL SEGUNDO DRIVE, ELEVATION 4221.01 (CITY DATUM)	HOR: 1" = 50' VER: 1" = 10' W.D.: 101994-6
4/1/96	ADDED NOTE - STORM SEWER SYSTEM FOUR	J.M.		FILE: CHATARRA.DWG DATE: JANUARY 13, 1995 DESIGN BY: STAFF DRAWN BY: STAFF CHKD BY: H.P. / STAFF APPD BY: B.R. / H.P.

PLAN AND PROFILE
CHAPARRAL PARK SUBDIVISION UNIT 37
DRAINAGE CHANNEL PLAN AND PROFILE
FROM STA. 54+45.10 TO STA. 64+44.76

proc and associates
601 E. CHASE ST. SUITE 200, EL PASO, TX 79902
(915) 833-1418 FAX (915) 833-4472

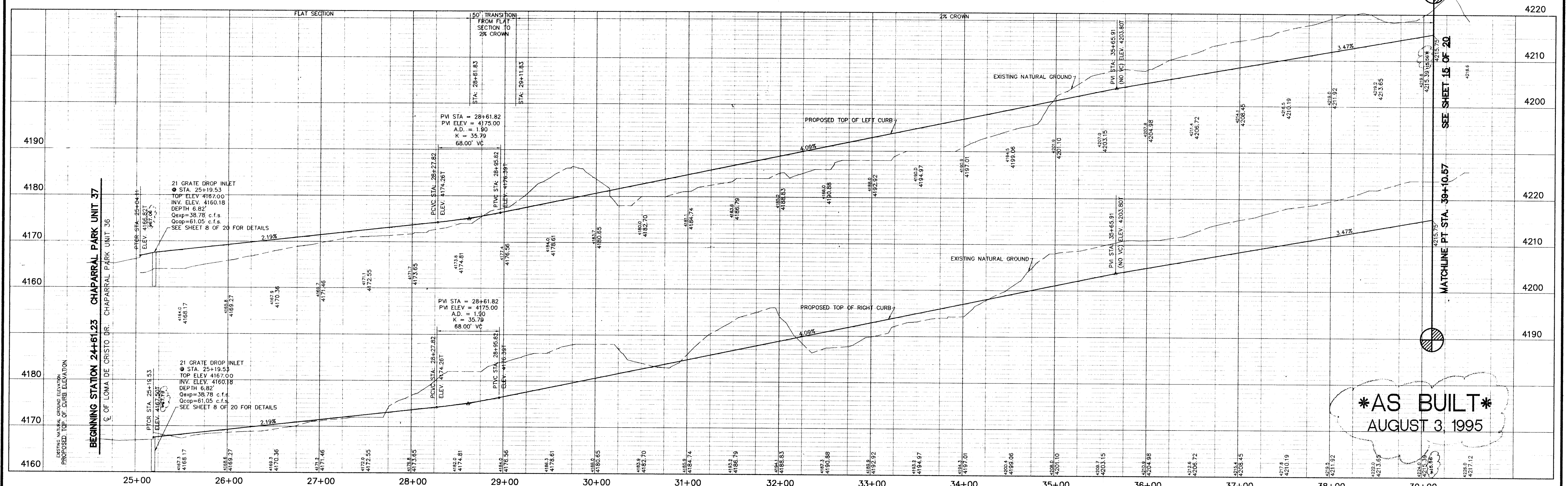
ENGINEERING/LAND DEVELOPMENT/PLANNING/SURVEYING
SHEET **13** OF **20**

600145



* DENOTES EXISTING CITY MONUMENT
 Δ DENOTES PROPOSED CITY MONUMENT

CURVE	RADIUS	LENGTH	CHORD	BEARING	DELTA
C1	877.43	297.47	296.15	N 84°40'40\"/>	



DATE	REVISIONS	BY	BENCHMARK	SCALE
8/3/95	ADDED AS-BUILT ELEVATIONS	PANC	BENCHMARK: CITY MONUMENT LOCATED AT THE CENTERLINE INTERSECTION OF BRISA DEL MAR DRIVE AND EL SEGUNDO DRIVE. ELEVATION 4221.01 (CITY DATUM)	HOR: 1" = 50' VER: 1" = 10'
11/17/96	REVISED CITY MONUMENT ELEVATIONS	DCM		W.O. 101994-6 FILE: CH37PPI.DWG
11/17/96	ADDED CITY MONUMENT ELEVATIONS	DCM		DATE: JANUARY 13, 1995 DESIGN BY: STAFF DRAWN BY: STAFF CHECKED BY: KSP APPD. BY: BR

PLAN AND PROFILE
CHAPARRAL PARK SUBDIVISION
UNIT 37
 ISLA DEL REY DRIVE
 FROM BEGINNING STATION 24+61.23 TO STA. 39+10.57

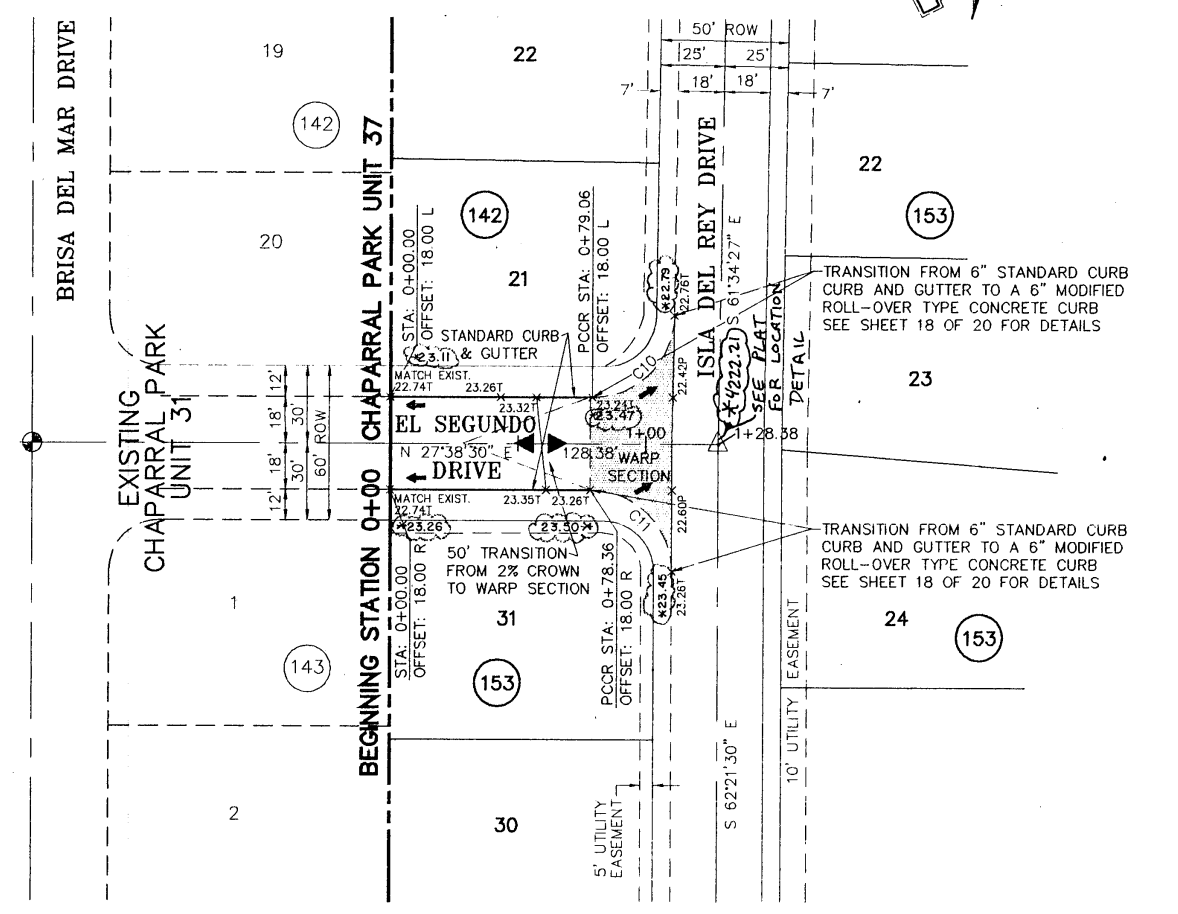
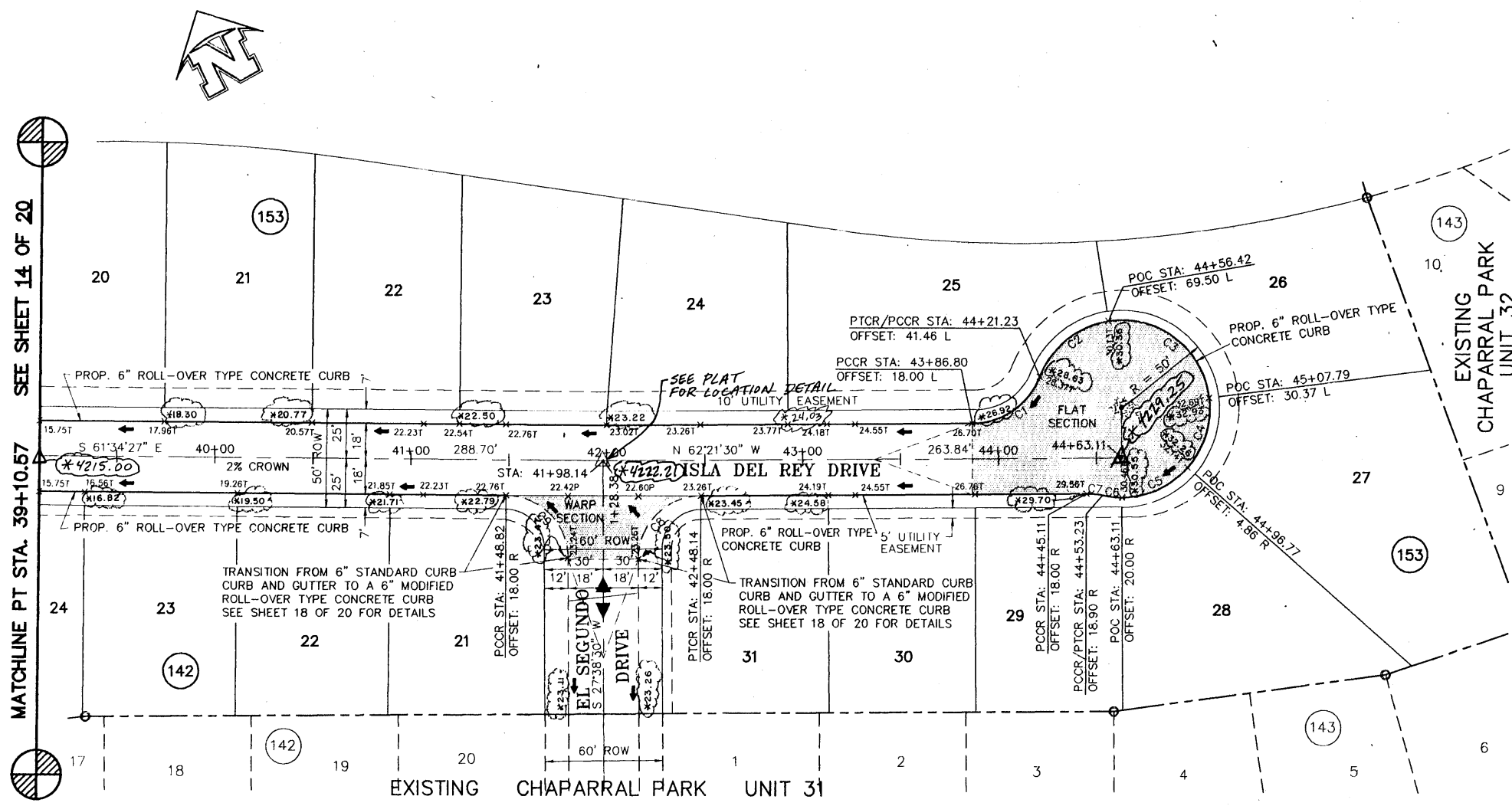
AS BUILT
 AUGUST 3, 1995

brp roe and associates
 801 N. Cotton St. Suite 606 El Paso, TX 79908
 (915) 533-1418 FAX: (915) 533-4972
 ENGINEERING/LAND DEVELOPMENT/PLANNING/SURVEYING

SHEET 14 OF 20

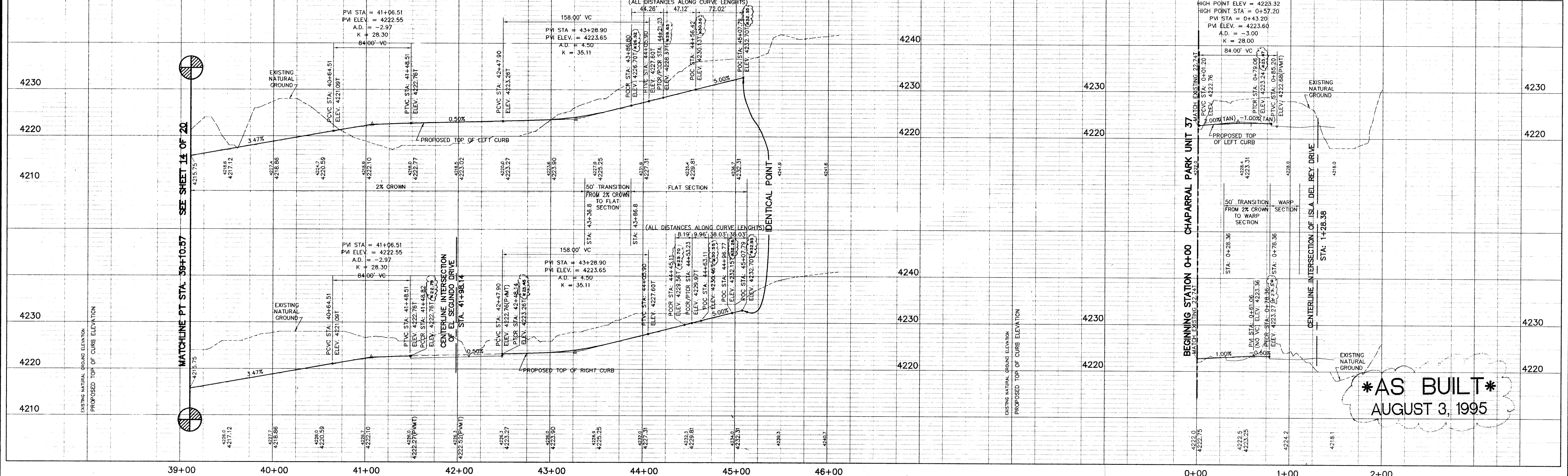
C:\PROJECTS\CH37PPI.DWG PLOT DATE: 11/17/96 11:17:46 1995 CSE: P:\ASBUILT\BR37\CH37PPI.DWG E. PANC

6004213



CURVE	RADIUS	LENGTH	TANGENT	CHORD	BEARING	DELTA
C1	45.00'	47.17'	23.00'	45.00'	N 74°29'55" E	89°30'38"
C2	45.00'	72.00'	36.00'	72.00'	N 74°29'55" E	90°00'00"
C3	45.00'	47.17'	23.00'	45.00'	N 15°30'05" W	89°30'38"
C4	45.00'	47.17'	23.00'	45.00'	N 15°30'05" W	89°30'38"
C5	45.00'	47.17'	23.00'	45.00'	N 15°30'05" W	89°30'38"
C6	45.00'	47.17'	23.00'	45.00'	N 15°30'05" W	89°30'38"
C7	45.00'	47.17'	23.00'	45.00'	N 15°30'05" W	89°30'38"
C8	45.00'	47.17'	23.00'	45.00'	N 15°30'05" W	89°30'38"
C9	45.00'	47.17'	23.00'	45.00'	N 15°30'05" W	89°30'38"

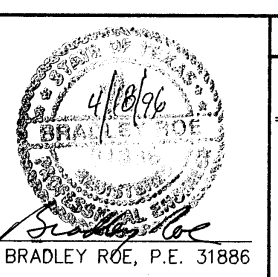
CURVE	RADIUS	LENGTH	TANGENT	CHORD	BEARING	DELTA
C10	45.00'	47.17'	23.00'	45.00'	N 74°29'55" E	89°30'38"
C11	45.00'	47.17'	23.00'	45.00'	N 74°29'55" E	89°30'38"



AS BUILT
AUGUST 3, 1995

DATE	REVISIONS	BY	BENCHMARK
8/3/95	ADDED AS-BUILT ELEVATIONS	BR	BENCHMARK: CITY MONUMENT LOCATED AT THE CENTERLINE INTERSECTION OF BRISA DEL MAR DRIVE AND EL SEGUNDO DRIVE, ELEVATION 4221.01 (CITY DATUM)
7/11/95	REVISED CITY MONUMENT LOCATIONS	DLM	
7/11/95	ADDED CITY MONUMENT ELEVATIONS	DLM	

SCALE
HORIZ: 1" = 100'
VERT: 1" = 10'
W.D.: 101994-6
FILE: CH377P2.DWG
DATE: JANUARY 13, 1995
DESIGN BY: STAFF
DRAWN BY: HLP
CHKD BY: HLP
APPD. BY: BR

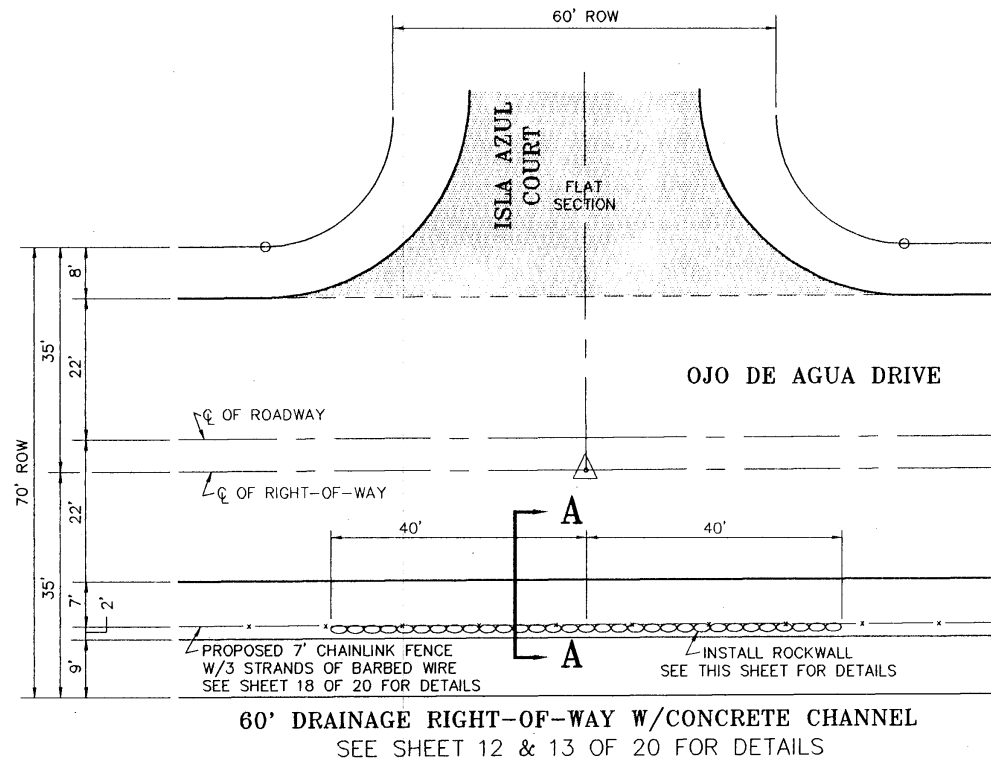
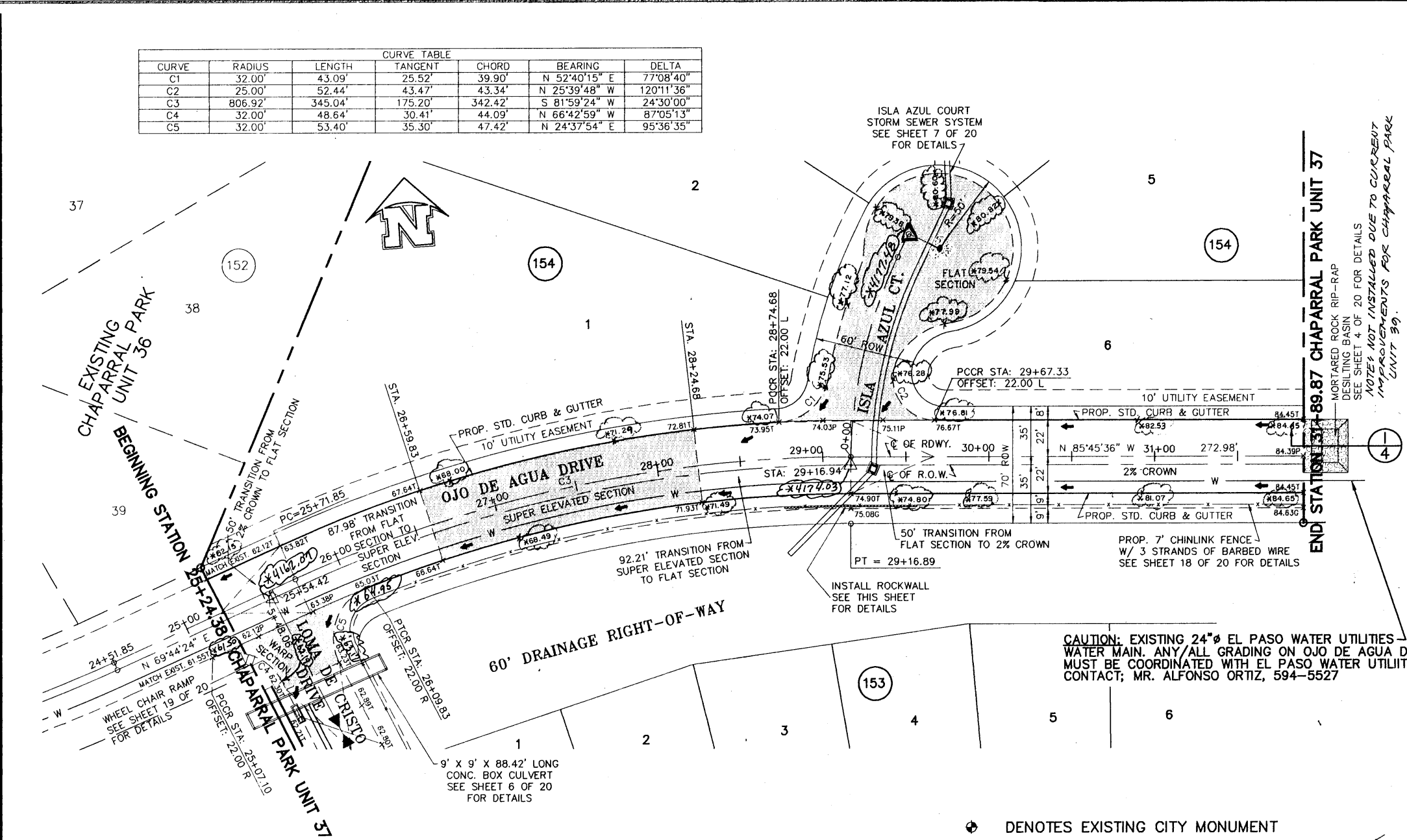


PLAN AND PROFILE
CHAPARRAL PARK SUBDIVISION
UNIT 37
ISLA DEL REY DRIVE
FROM STA. 39+10.57 TO STA. 45+07.79
EL SEGUNDO DRIVE

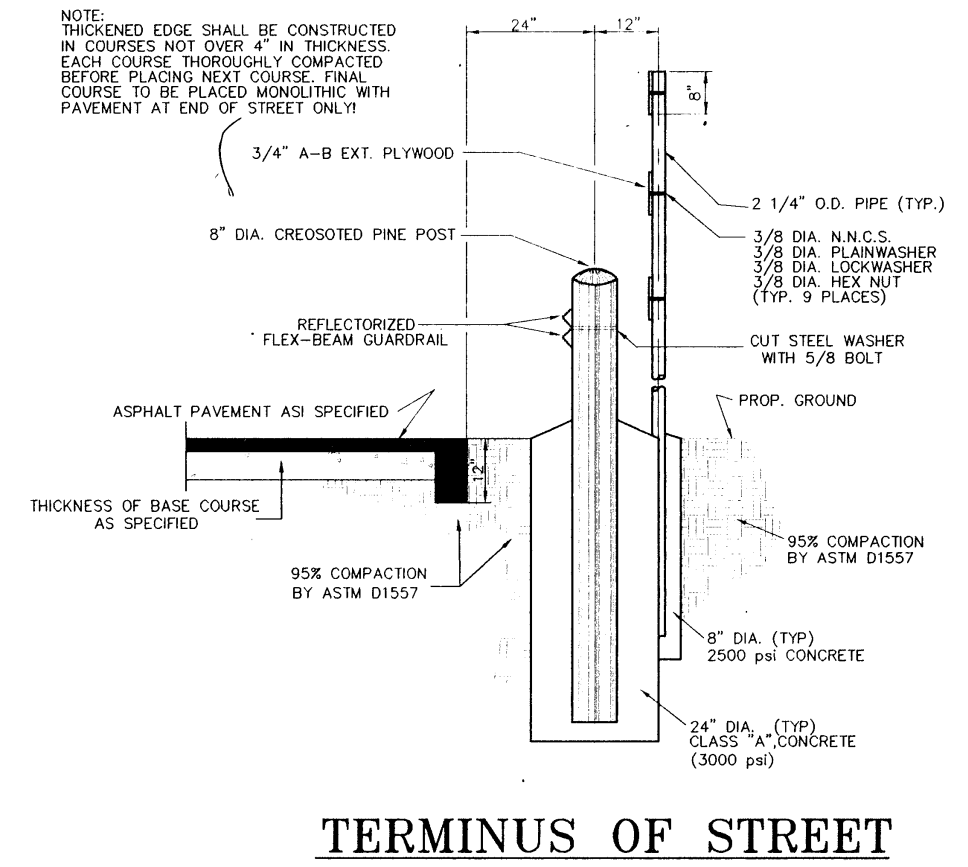
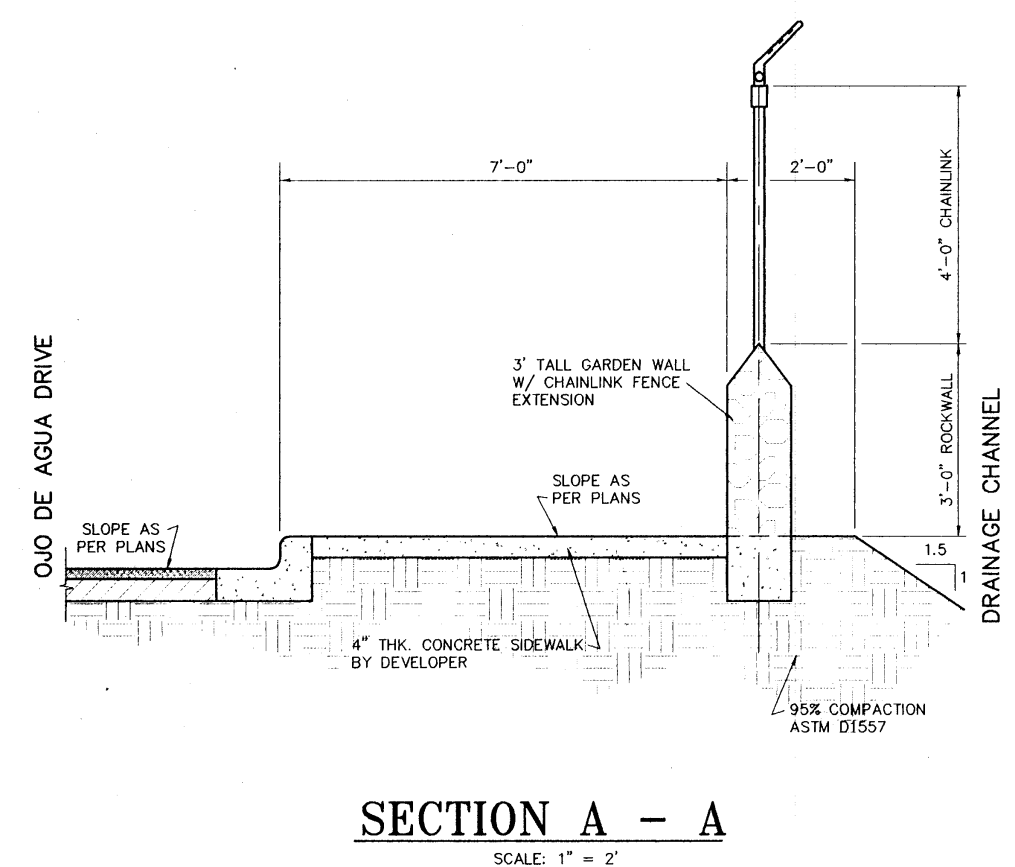
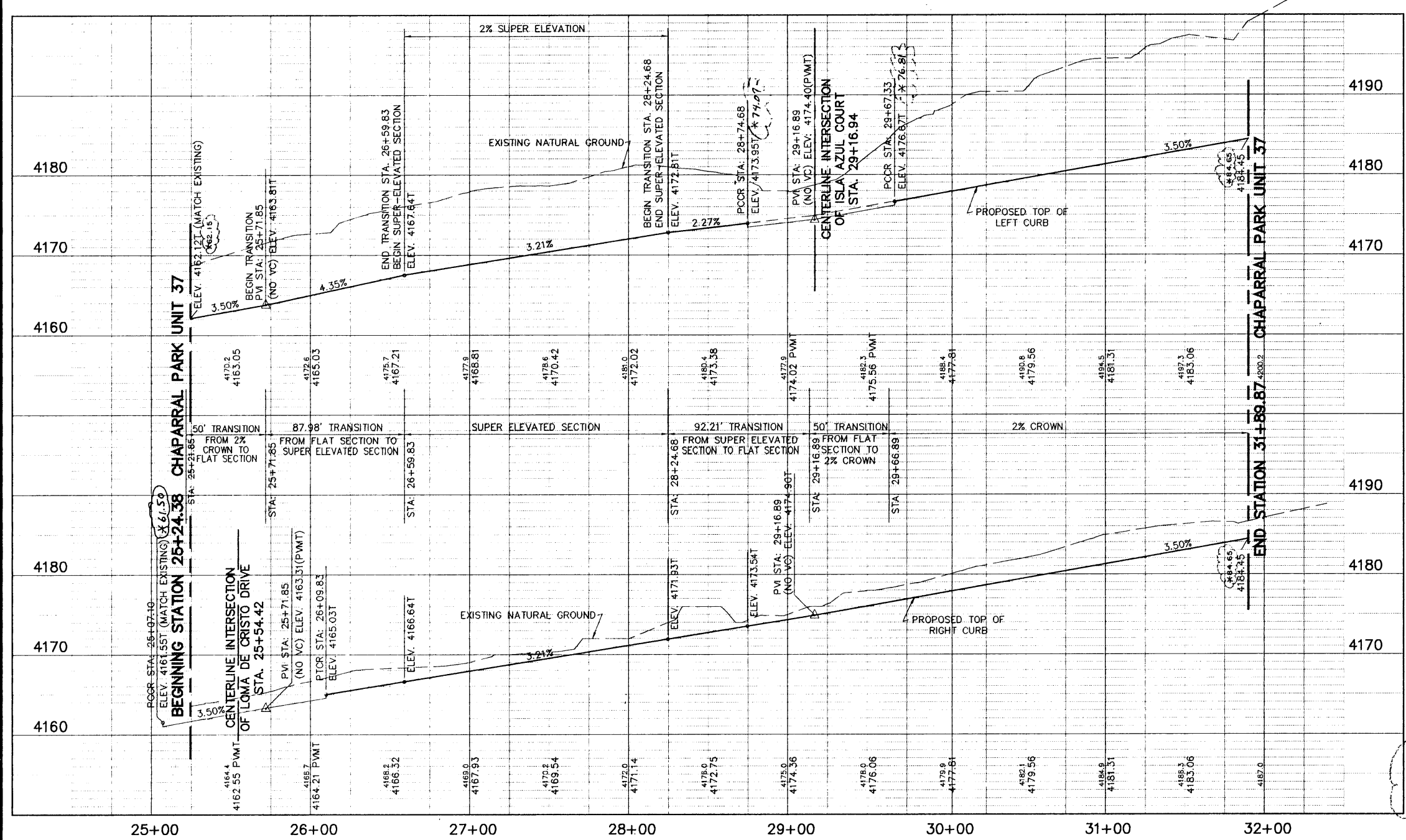
brp roe and associates
801 N. Collins St. Suite No. 6 El Paso, TX 79902
(915) 633-1444 FAX (915) 633-4878
SHEET 15 OF 20

PROJECT: CHAPARRAL PARK UNIT 37, 10/1/94, SEE 4-1-2000 FOR THE CITY OF EL PASO, TEXAS

CURVE	RADIUS	LENGTH	CHORD	BEARING	DELTA
C1	33.00'	43.99'	39.80'	N 24°02'14" E	77°08'44"
C2	25.00'	52.44'	43.43'	N 25°39'48" W	120°11'30"
C3	80.00'	145.84'	125.70'	S 81°59'11" W	24°30'00"
C4	32.00'	48.84'	36.41'	N 66°42'52" W	87°05'13"
C5	32.00'	53.40'	35.50'	N 24°37'54" E	59°36'38"



INTERSECTION DETAIL OF ISLA AZUL CT. AND OJO DE AGUA DR. CHAINLINK FENCING W/ROCKWALL
SCALE: 1" = 20'



AS BUILT
AUGUST 3, 1995

DATE	REVISIONS	BY	BENCHMARK
8/1/94	ADDED AS-BUILT ELEVATIONS	D.M.C.	
8/1/94	REVISED CITY MONUMENT LOCATIONS	D.M.	BENCHMARK: CITY MONUMENT LOCATED AT THE CENTERLINE INTERSECTION OF BRISA DEL MAR DRIVE AND EL SEGUNDO DRIVE, ELEVATION 4221.01 (CITY DATUM)
8/1/94	ADDED CITY MONUMENT ELEVATIONS	D.M.	

SCALE
HOR: 1" = 50'
VER: 1" = 10'
W.D.: 101994-6
FILE: CHAPARRAL.DWG
DATE: JANUARY 13, 1995
DESIGN BY: STAFF
DRAWN BY: STAFF
CHKD. BY: H.P.
APPD. BY: B.R.

PLAN AND PROFILE
CHAPARRAL PARK SUBDIVISION
UNIT 37
OJO DE AGUA DRIVE

hnp roe and associates
601 N. Collins St. Suite 200 • El Paso, TX 79902
(915) 533-1418 FAX (915) 533-4872
ENGINEERING/LAND DEVELOPMENT/PLANNING/SURVEYING
SHEET 16 OF 20

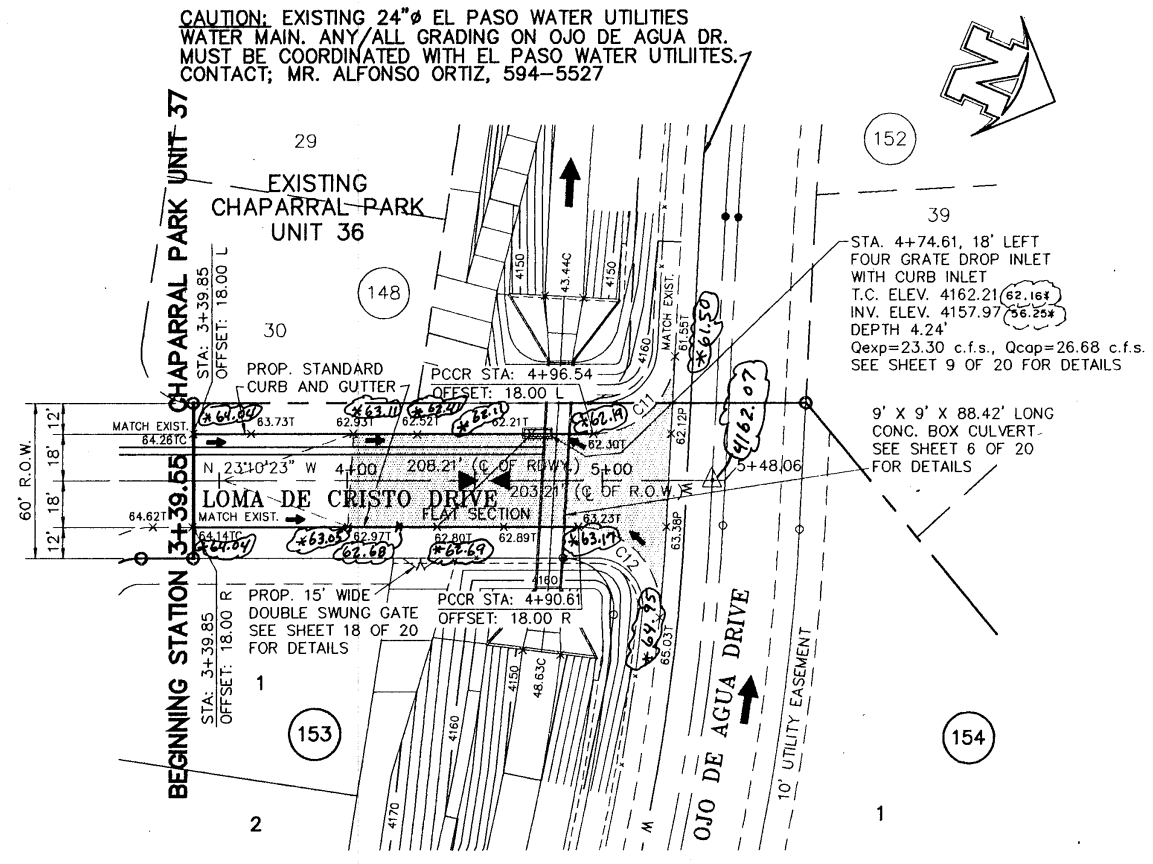
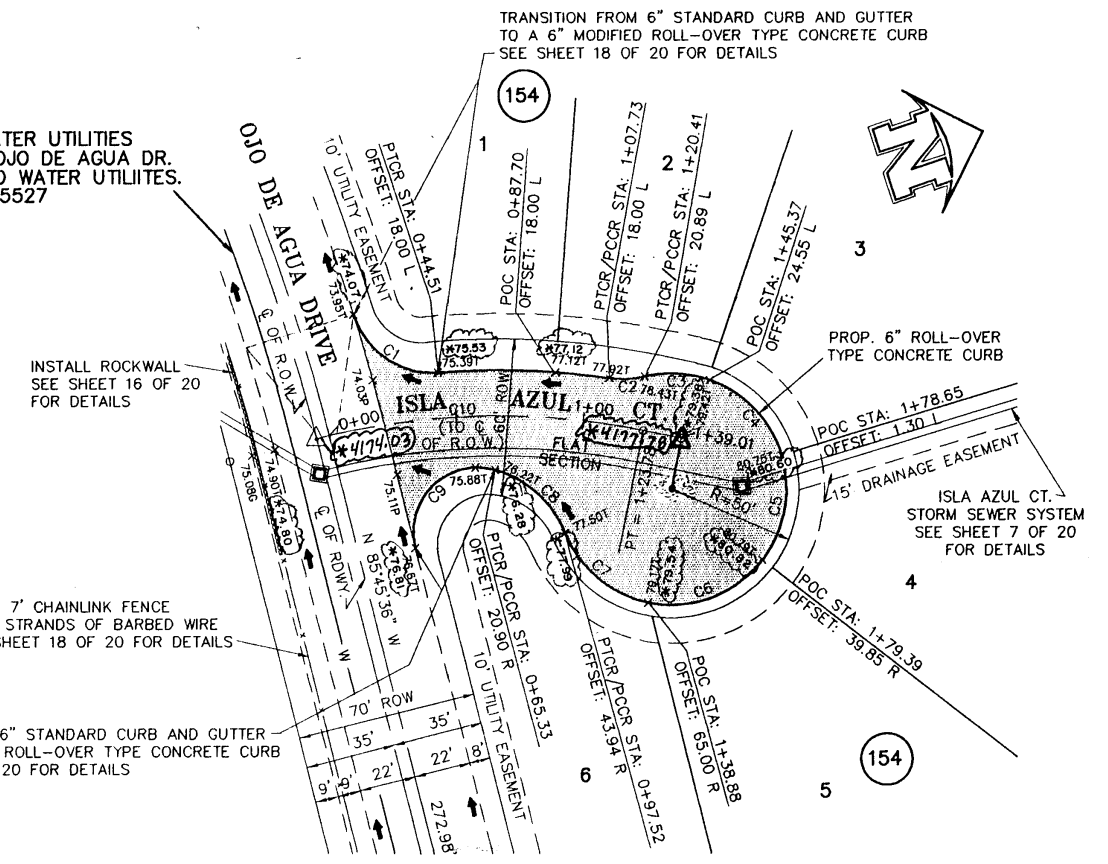
C:\PROJECTS\CHAPARRAL\CHAPARRAL.DWG: PLOT: 10/13/95 10:30:00 AM

CURVE	RADIUS	LENGTH	TANGENT	CHORD	BEARING	DELTA
C1	32.00'	43.99'	29.57'	39.90'	S 52°42'15" W	77°09'40"
C2	32.00'	13.99'	1.04'	1.84'	N 75°54'43" E	27°32'20"
C3	45.00'	28.99'	13.29'	25.47'	S 21°34'23" W	32°29'40"
C4	45.00'	42.11'	22.74'	48.09'	N 84°48'17" E	53°19'00"
C5	45.00'	42.11'	22.74'	48.09'	N 84°48'17" E	53°19'00"
C6	45.00'	26.26'	12.11'	27.69'	N 61°09'17" W	54°26'00"
C7	45.00'	44.73'	23.00'	52.25'	S 58°17'31" W	63°59'00"
C8	42.00'	37.45'	18.11'	36.67'	S 60°12'05" W	51°46'00"
C9	32.00'	13.99'	1.04'	1.84'	S 75°54'43" E	107°14'40"
C10	287.72'	128.78'	65.49'	127.71'	S 17°03'45" W	29°38'42"

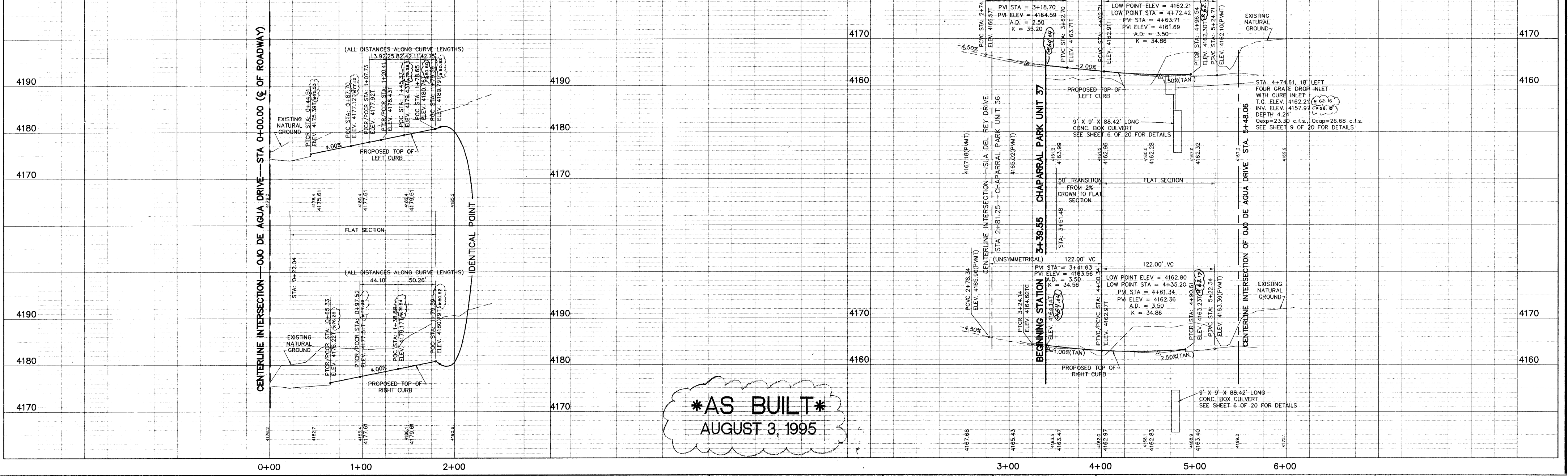
CURVE	RADIUS	LENGTH	TANGENT	CHORD	BEARING	DELTA
C11	32.00'	43.99'	29.57'	39.90'	S 52°42'15" W	77°09'40"
C12	32.00'	13.99'	1.04'	1.84'	N 75°54'43" E	27°32'20"

CAUTION: EXISTING 24" EL PASO WATER UTILITIES WATER MAIN. ANY ALL GRADING ON QDO DE AGUA DR. MUST BE COORDINATED WITH EL PASO WATER UTILITIES. CONTACT: MR. ALFONSO ORTIZ, 594-5527

CAUTION: EXISTING 24" EL PASO WATER UTILITIES WATER MAIN. ANY ALL GRADING ON QDO DE AGUA DR. MUST BE COORDINATED WITH EL PASO WATER UTILITIES. CONTACT: MR. ALFONSO ORTIZ, 594-5527



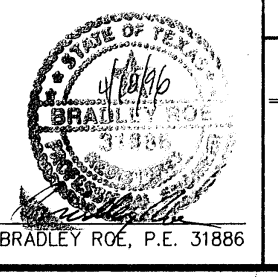
⊙ DENOTES EXISTING CITY MONUMENT
 △ DENOTES PROPOSED CITY MONUMENTS



AS BUILT
 AUGUST 3, 1995

DATE	REVISIONS	BY	BENCHMARK
8/3/95	ADDED AS-BUILT ELEVATIONS	DMC	BENCHMARK, CITY MONUMENT LOCATED AT THE CENTERLINE INTERSECTION OF BRISA DEL MAR DRIVE AND EL SEGUNDO DRIVE, ELEVATION 4221.01 (CITY DATA)
4/10/96	REVISED CITY MONUMENT LOCATIONS	DLM	
4/10/96	ADDED CITY MONUMENT ELEVATIONS	DLM	

SCALE
 HOR: 1" = 50'
 VER: 1" = 10'
 W.D. 101904-6
 FILE: CH3799A.DWG
 DATE: JANUARY 13, 1995
 DESIGN BY: STAFF
 DRAWN BY: STAFF
 CHECK BY: H.P.
 APPRO. BY: B.R.



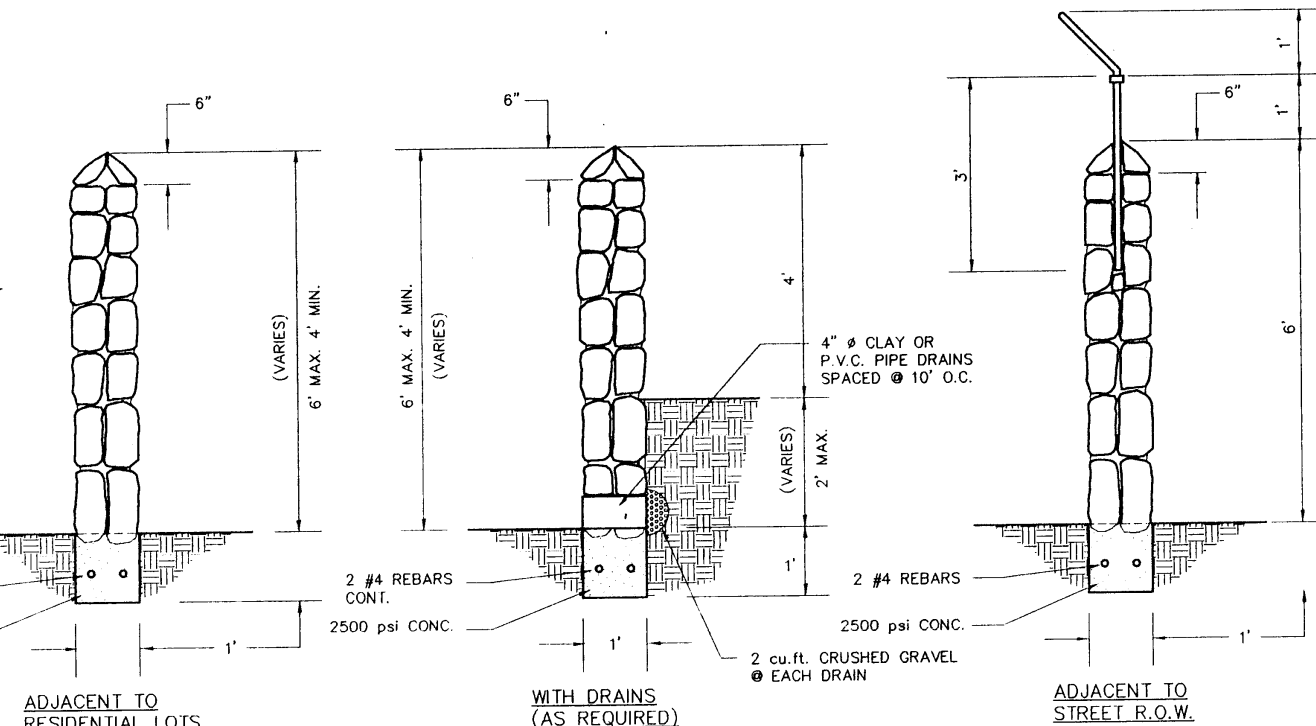
PLAN AND PROFILE
CHAPARRAL PARK SUBDIVISION
UNIT 37
 ISLA AZUL COURT
 LOMA DE CRISTO DRIVE

brp **roe and associates**
 201 N. COCKER BLDG. SUITE 200 E. IRVING, TX 75038
 (915) 833-1418 FAX: (915) 833-6972
 ENGINEERING/LAND DEVELOPMENT/PLANNING/SURVEYING
 SHEET **17** OF **20**

1600445

NOTES:

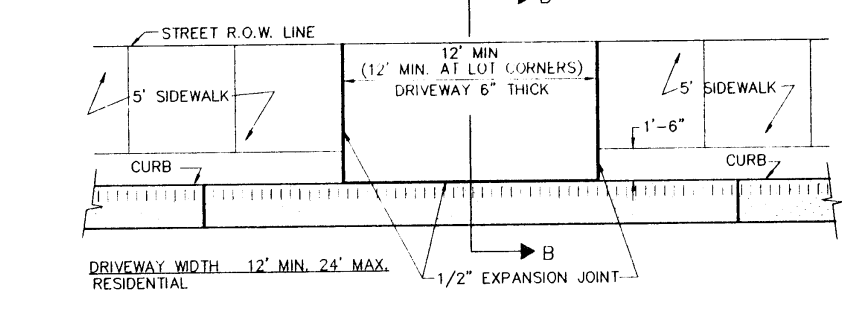
1. STONE FOR ROCKWALLS SHALL BE AS NEARLY UNIFORM IN SECTION AS IS PRACTICABLE. THE STONE SHALL BE DENSE AND RESISTANT TO THE ACTION OF AIR AND WATER.
2. MORTAR FOR ROCKWALL SHALL BE A 5:1 M. TYPE "N". USE ONE PART PORTLAND CEMENT, 1 1/2 TO 1 3/4 PARTS HYDRATED LIME AND 3 PARTS SAND (2-1/4 TO 3 TIMES THE SUM OF THE VOLUMES OF CEMENT AND LIME COMBINED).
3. IF ROCKWALL IS FREQUENTLY EXPOSED TO WATER, LIME SHALL NOT BE USED, AND THE PROPORTIONS SHALL BE ONE PART PORTLAND CEMENT AND THREE PARTS SAND.
4. WALLS ADJACENT TO PONDING AREAS OR DRAINAGE DITCHES MAY BE CONSTRUCTED OF BRICK OR CONCRETE BLOCK.
5. MASONRY WALLS OVER 4 FEET IN HEIGHT AND THOSE USED IN WHOLE OR IN PART FOR EARTH RETENTION, REGARDLESS OF HEIGHT, SHALL BE DESIGNED AS STRUCTURAL WALLS AND PROVIDED WITH ASSOCIATE FOOTINGS OF REINFORCED CONCRETE. SUCH DESIGN OF WALL AND FOOTINGS SHALL BE PRESENTED TO THE BUILDING OFFICIAL FOR APPROVAL PRIOR TO ERECTION.



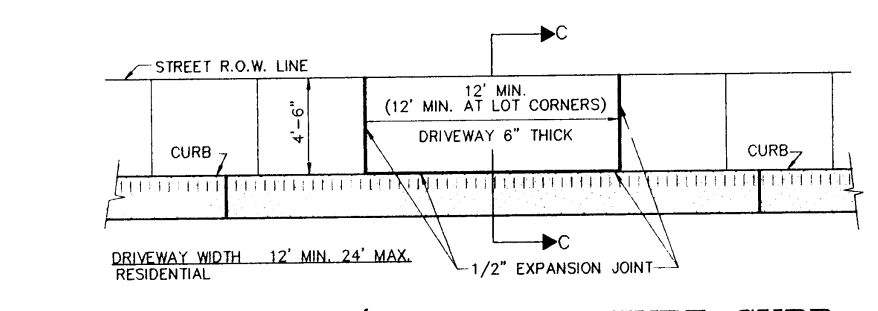
ROCKWALL DETAILS
SCALE: 1" = 2'

NOTES FOR CURB AND GUTTER:

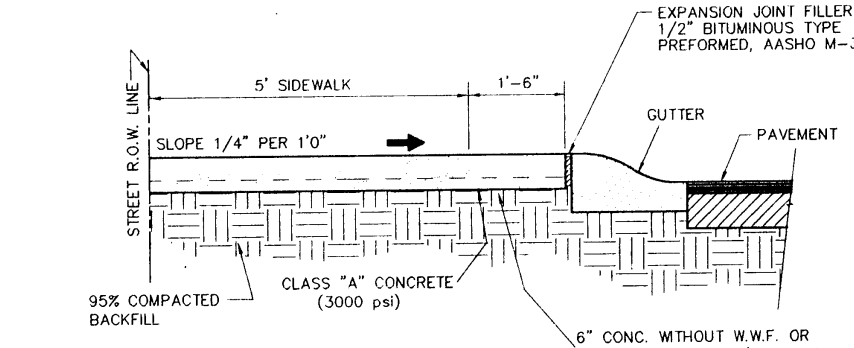
1. NO EXPANSION JOINTS WILL BE REQUIRED EXCEPT AT THE END OF CURB RETURNS. POINT OF TANGENCY WITH STRAIGHT RUNS OF CURB AT EVERY INTERSECTION.
2. CONTRACTION JOINTS (1/2 INCH MIN. SCORED JOINTS) MUST BE INSTALLED EVERY 10 FEET IN CURB OR CURB AND GUTTER.
3. ALL EXPANSION JOINTS WILL BE PERFORMED BITUMINOUS FIBER 1/2 INCH THICK.
4. CONCRETE TO BE CLASS "A", 3000 P.S.I.



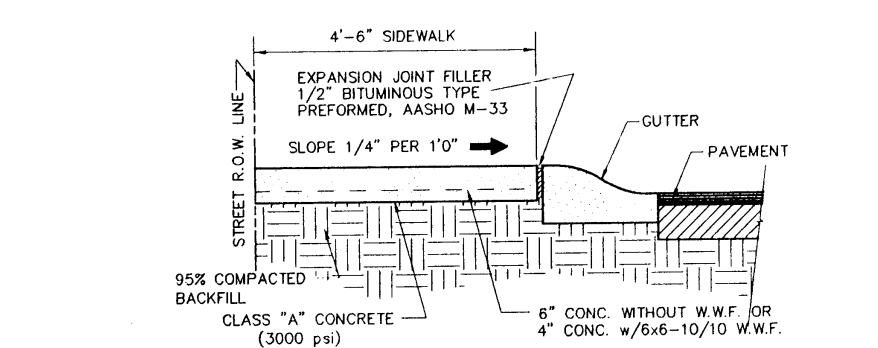
PLAN VIEW/ROLL-OVER CURB & GUTTER
SCALE: 1" = 6'



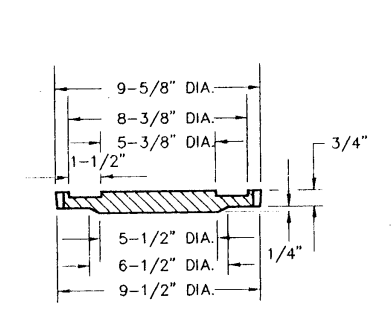
PLAN VIEW/ROLL-OVER TYPE CURB
SCALE: 1" = 6'



SECTION B - B
SCALE: 1" = 2'



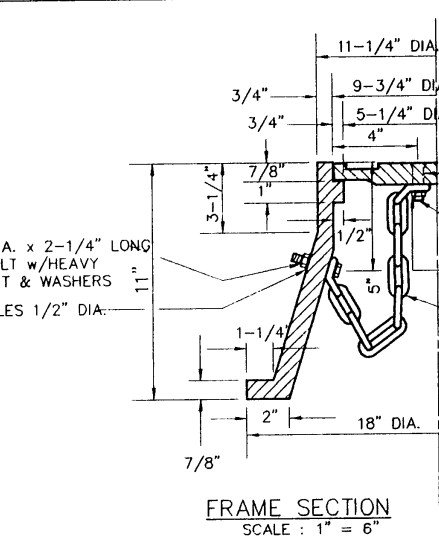
SECTION C - C
SCALE: 1" = 2'



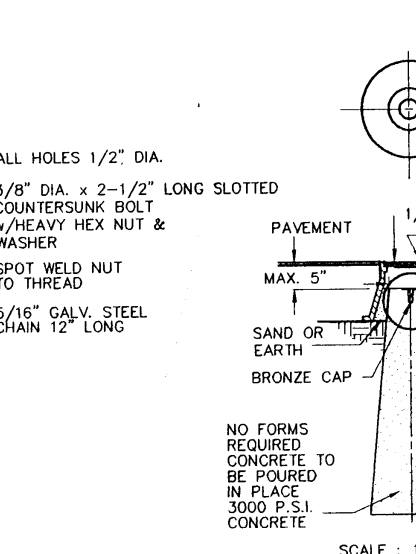
COUNTER-SUNK DETAIL
SCALE: 1" = 3"

SIZE AND CONSTRUCTION:
THE STANDARD CITY MONUMENT SHALL BE POURED-IN-PLACE CONCRETE CONE. THE 12 INCHES CITY MONUMENT SHALL BE POURED-IN-PLACE CONCRETE CONE. THE 12 INCHES CITY MONUMENT SHALL BE POURED-IN-PLACE CONCRETE CONE. THE 12 INCHES CITY MONUMENT SHALL BE POURED-IN-PLACE CONCRETE CONE.

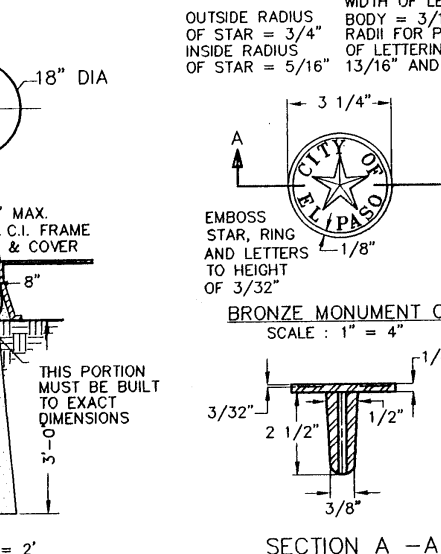
NUMBER AND LOCATIONS:
ANY MONUMENT MUST BE WITHIN THE LINE OF SIGHT OF ANY OTHER MONUMENT (2000 FEET MAXIMUM DISTANCE BETWEEN MONUMENTS). THE SIZE, TOPOGRAPHY AND LAYOUT OF THE SUBDIVISION SHALL GOVERN THE NUMBER OF MONUMENTS REQUIRED.



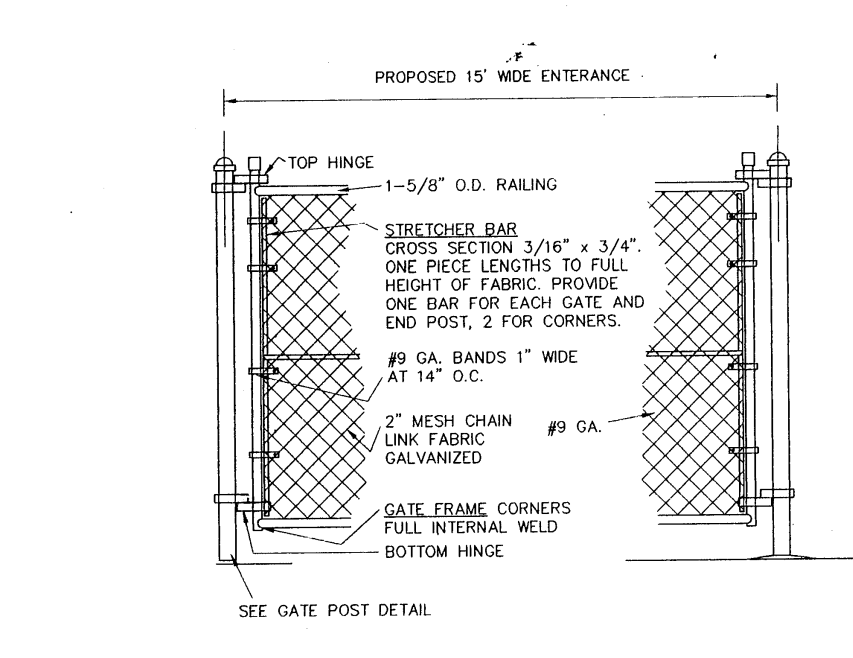
CITY MONUMENT DETAIL
SCALE: 1" = 6'



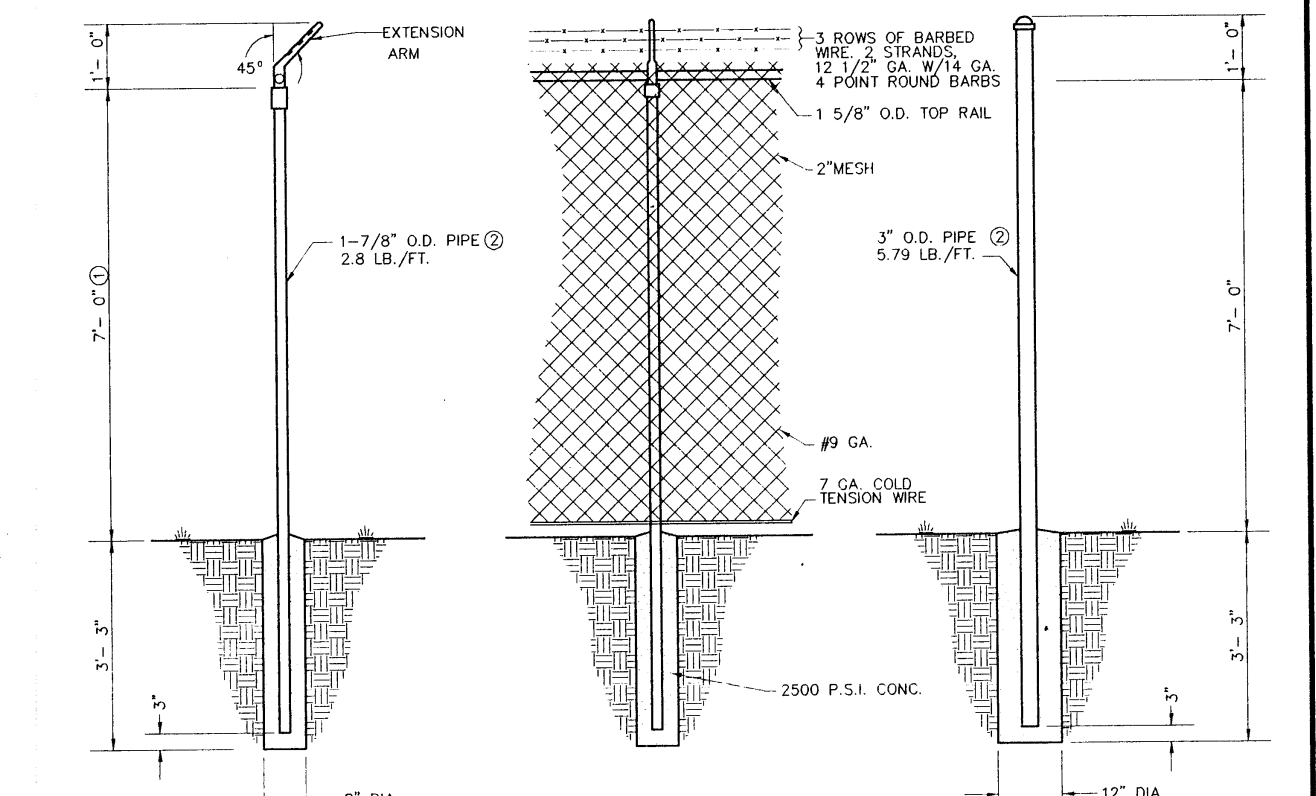
SECTION A - A
SCALE: 1" = 2'



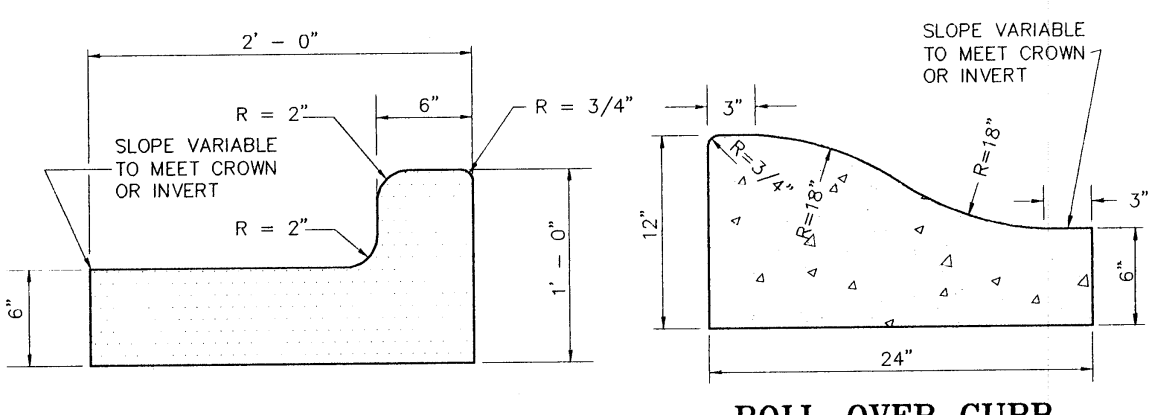
SECTION A - A
SCALE: 1" = 2'



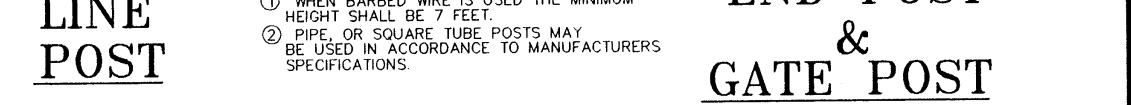
DOUBLE SWING GATE DETAIL
SCALE: 1" = 2'



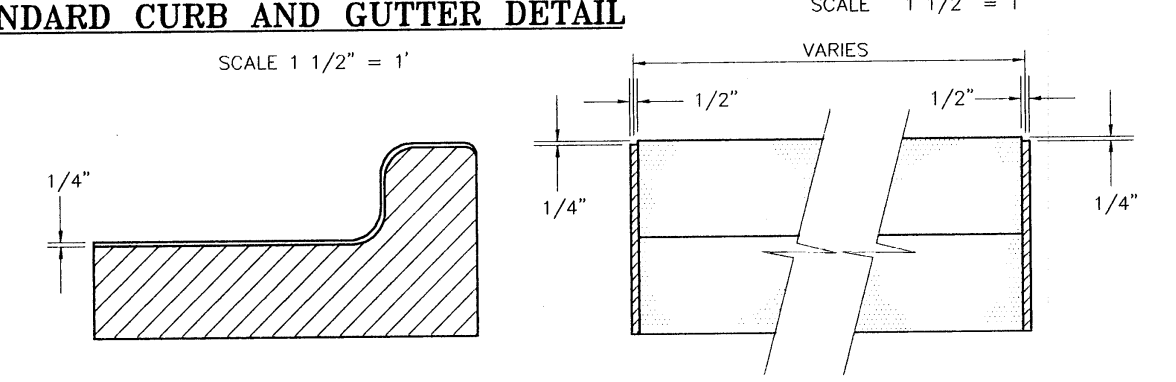
END POST & GATE POST
SCALE: 1" = 2'



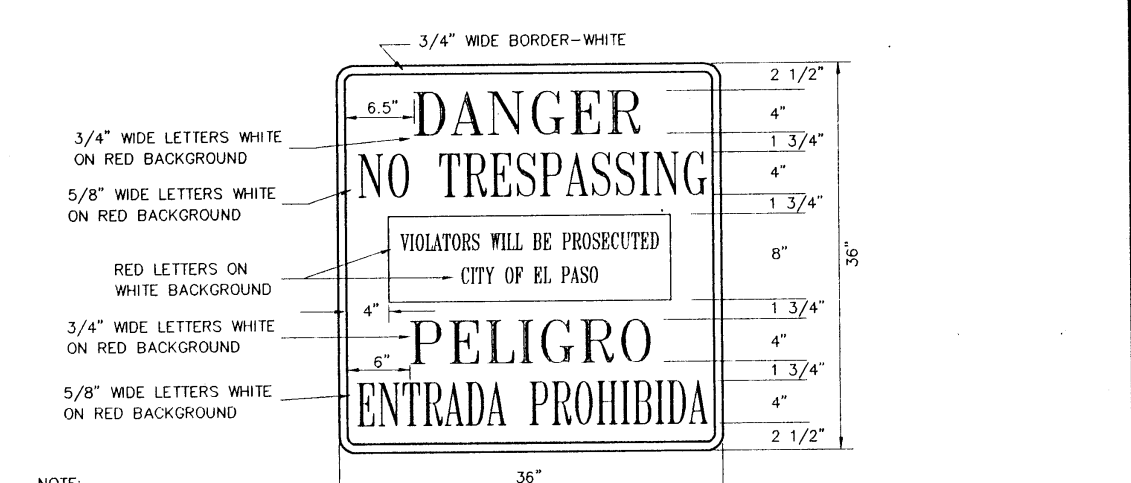
STANDARD CURB AND GUTTER DETAIL
SCALE: 1 1/2" = 1'



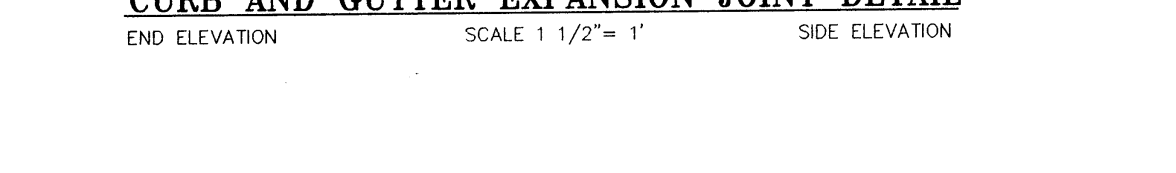
CHAIN LINK FENCE
SCALE: 1" = 2'



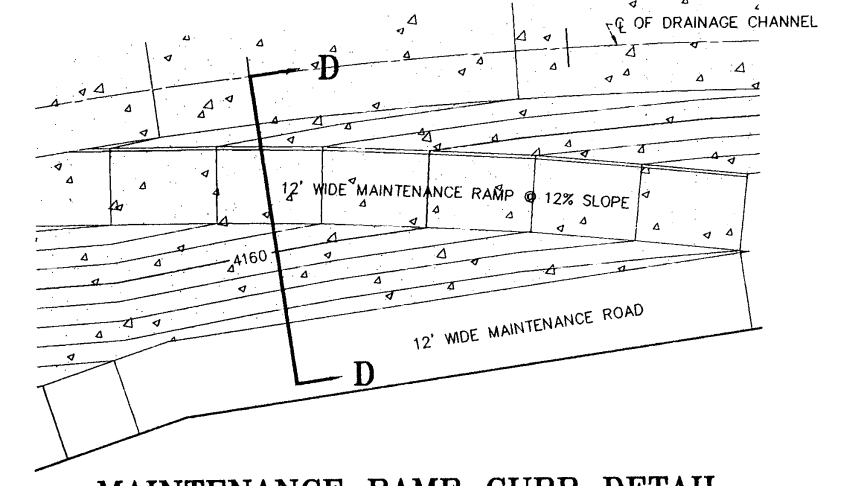
ROLL-OVER CURB
SCALE: 1 1/2" = 1'



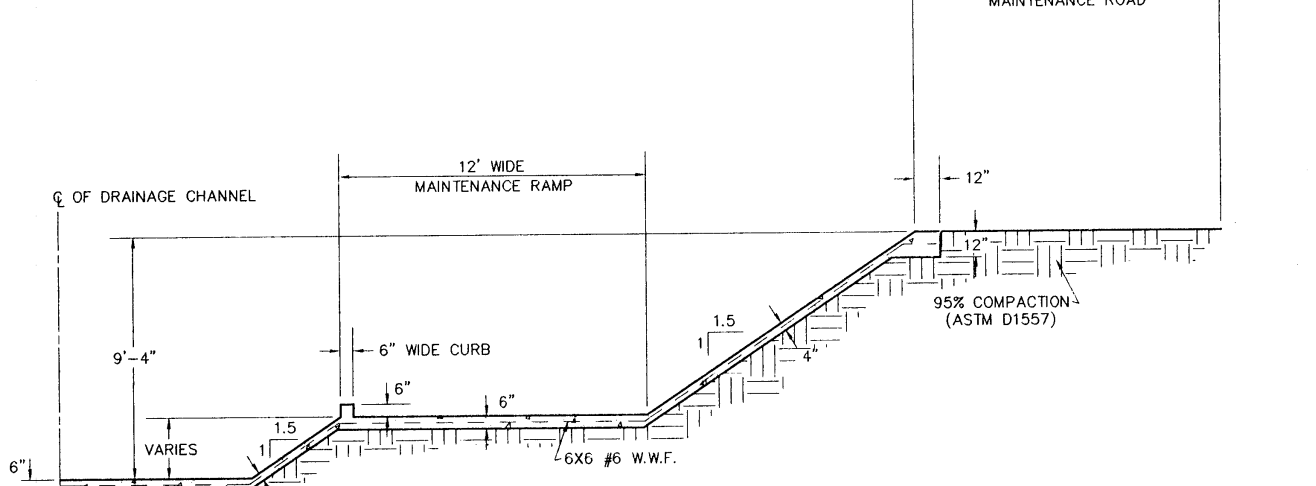
WARNING SIGN DETAIL
SCALE: 1" = 1'



CURB AND GUTTER EXPANSION JOINT DETAIL
SCALE: 1 1/2" = 1'



MAINTENANCE RAMP CURB DETAIL
SCALE: 1" = 50'



SECTION D - D
SCALE: 1" = 5'

SCALE	
HOR.	AS NOTED
VER.	N/A
W.D.	10/22/94 - E
FILE	CH37DET10W
DATE	JANUARY 13, 1995
DESIGN BY	STAFF
DRAWN BY	STAFF
CHKD. BY	H.P.
APPD. BY	B.R.

DETAILS	
CHAPARRAL PARK SUBDIVISION	
UNIT 37	
TYPICAL DETAILS	

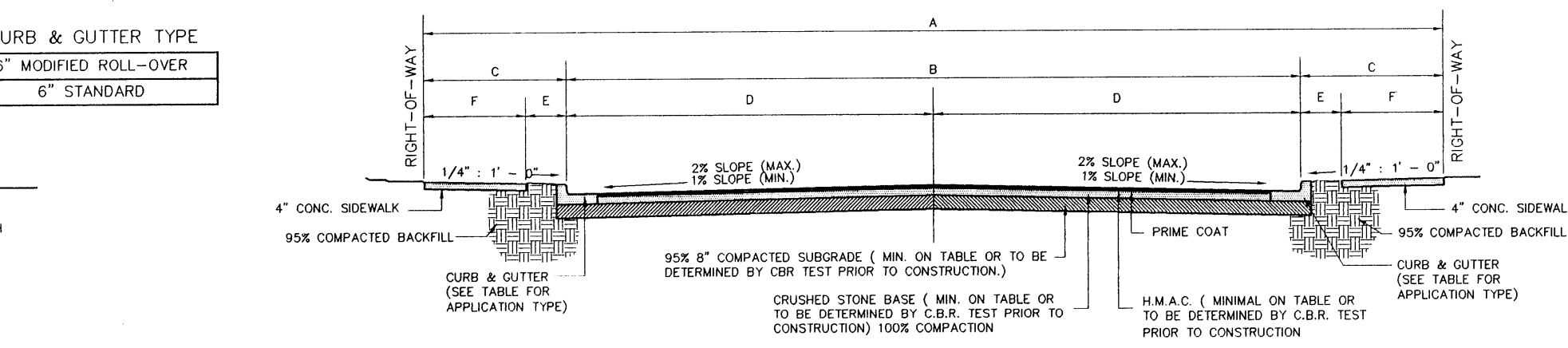
brp	
roe and associates	
801 N. Colton St. Suite No. 6, El Paso, TX 79902	
(915) 553-1818 FAX: (915) 553-8972	
ENGINEERING/LAND DEVELOPMENT/PLANNING/SURVEYING	
SHEET	18 OF 20

600445

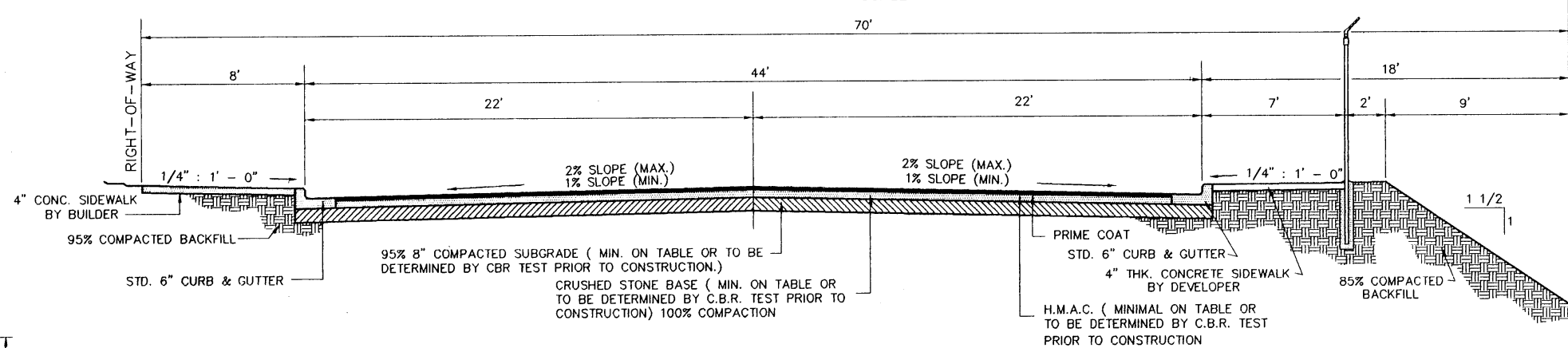
	A	B	C	D	E	F	HMAC BASE (MIN.)	SUB-BASE (MIN.)	CURB & GUTTER TYPE
50' R.O.W.	50'	36'	7'	18'	2'	5'	1 1/2"	4 1/2"	6" MODIFIED ROLL-OVER
60' R.O.W.	60'	36'	12'	18'	7'	5'	1 1/2"	4 1/2"	6" STANDARD

NOTES FOR STREETS:

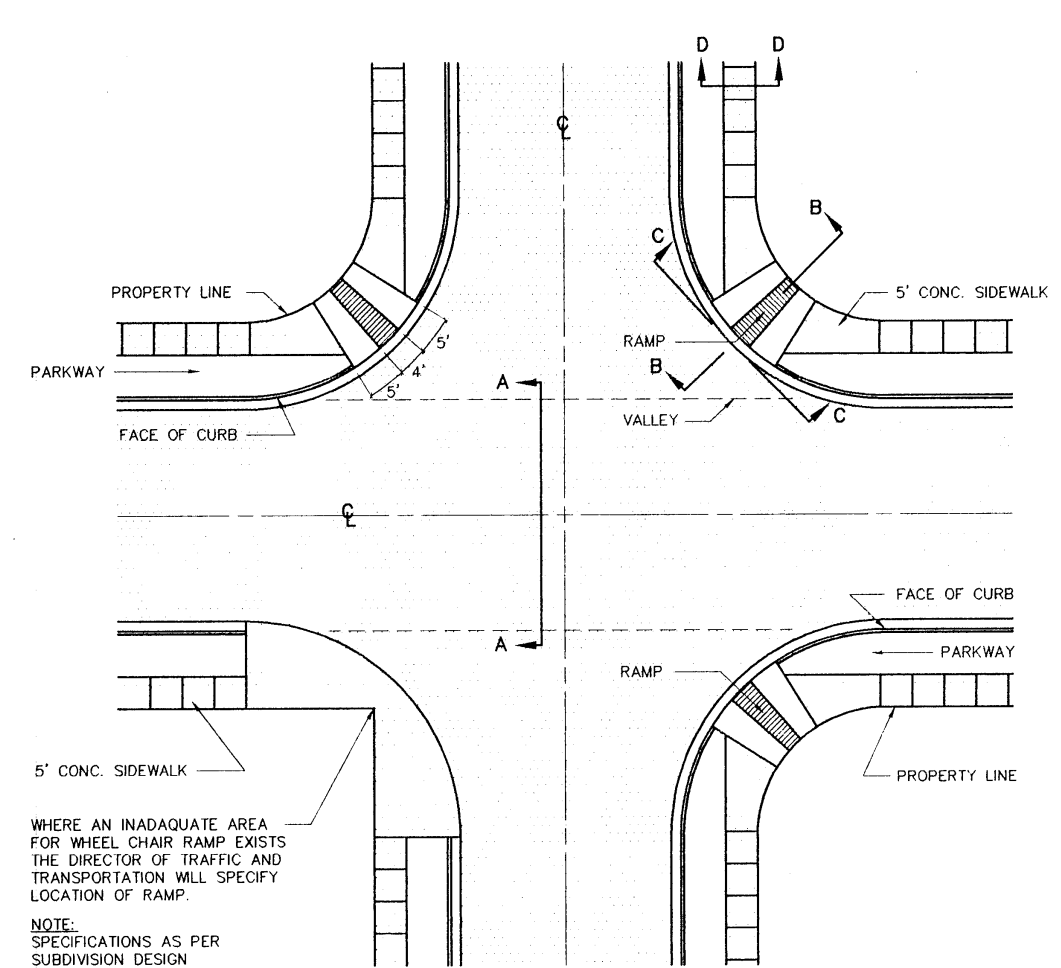
- BASE TO BE COMPACTED TO 100% COMPACTION BY A.S.T.M. D1557
- H.M.A.C. BASE AND SUBGRADE WILL BE PLACED IN STRICT ACCORDANCE WITH THE LATEST CITY OF EL PASO SPECIFICATIONS
- SUBGRADE TO BE COMPACTED TO 95% COMPACTION BY A.S.T.M. D1557
- PRIME COAT TO BE 0.25 GALLON PER SQUARE YARD (MIN. COVERAGE)
- ALL ELEVATIONS ON PLANS BASED ON CITY DATUM
- SUBGRADE UNDER CURB MUST BE FORMED AND COMPACTED AS SHOWN OR EXCESS CUT MUST BE BACKFILLED WITH CONCRETE
- COMPACTION BEHIND CURB A. ONE FOOT MIN. ON CUTS B. TWO FOOT MIN. ON FILLS
- C.B.R. TEST TO BE APPROVED BY THE CITY ENGINEER PRIOR TO PAVING
- COMPACTION TEST WHERE REQUIRED BY THE CITY ENGINEER MUST BE PAID FOR BY THE DEVELOPER. THIS INCLUDES BUT IS NOT LIMITED TO SUBGRADE AND BASE COURSE
- ALL PLANS MUST BE IN ACCORDANCE WITH THE LATEST EDITION OF THE CITY OF EL PASO SUBDIVISION DESIGN AND IMPROVEMENT STANDARDS
- C.B.R. TEST REQUIRED AT EVERY 500' AFTER SUBGRADE IS IN PLACE OR A MIN. OF TWO TESTS IF STREET IS LESS THAN 500'
- STREET VERTICAL CONTROL OF ALL CURB AND GUTTER ELEVATIONS WILL BE MAINTAINED. (BLUE TYPING REQUIRED THROUGHOUT)



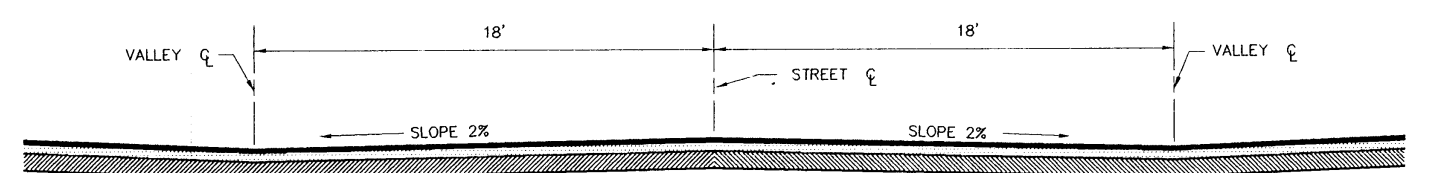
50' & 60' RIGHT-OF-WAY TYPICAL CROWN STREET SECTION
SCALE 1" = 5'



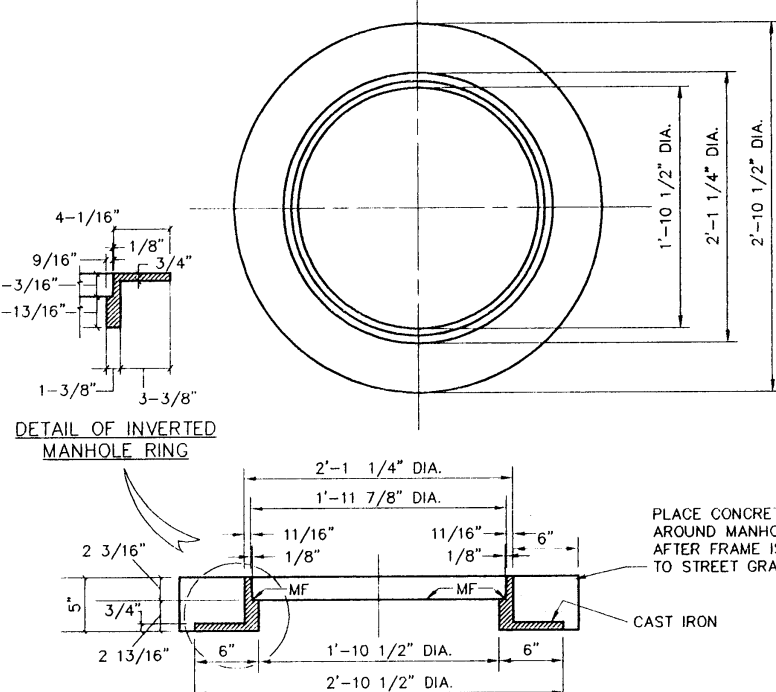
70' RIGHT-OF-WAY CROWN STREET SECTION
SCALE 1" = 5'



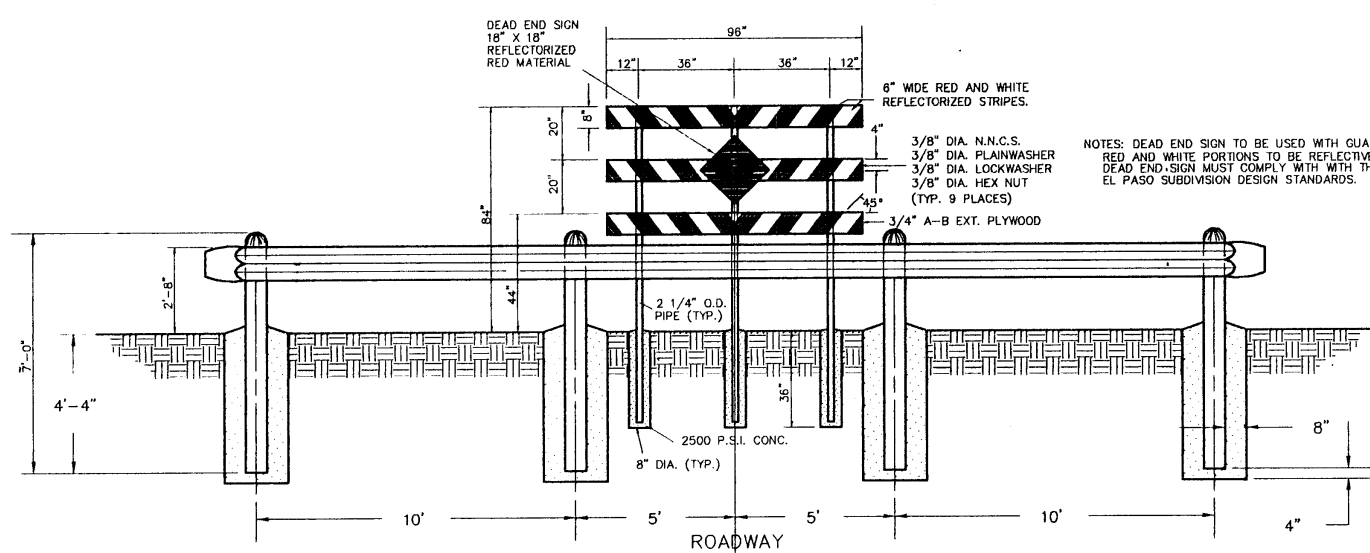
PLAN VIEW DETAIL
SCALE 1" = 20'



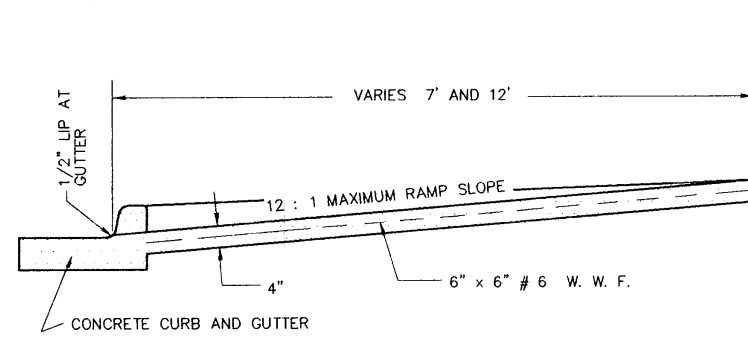
SECTION A - A
VALLEY DETAIL SCALE 1" = 4'



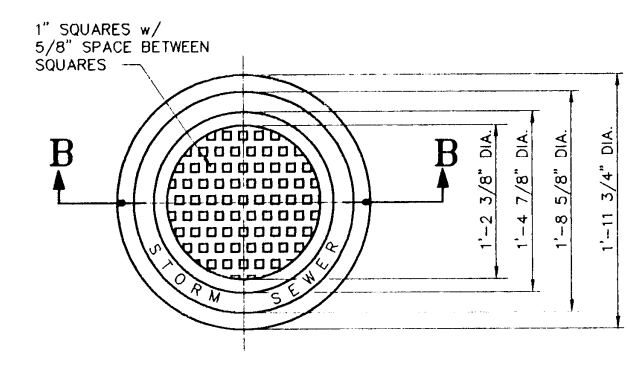
MANHOLE RING DETAIL
SCALE 1" = 1'



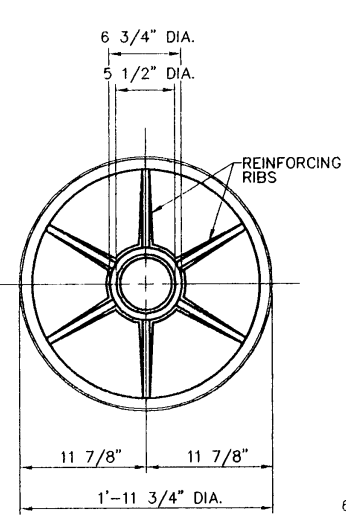
GUARD RAIL DETAIL
SCALE 1" = 4'



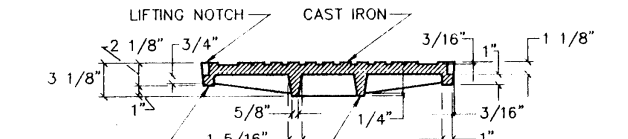
SECTION B - B
HANDICAP RAMP SCALE 1" = 2'



TOP VIEW

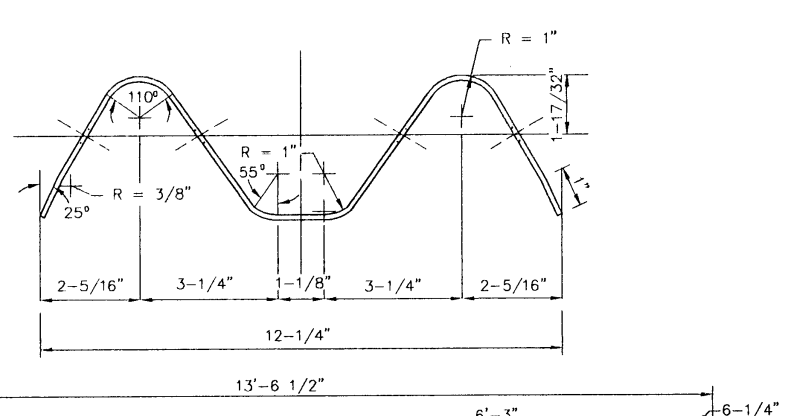


BOTTOM VIEW

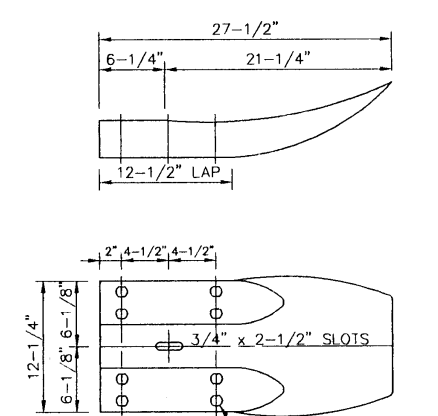


SECTION B - B

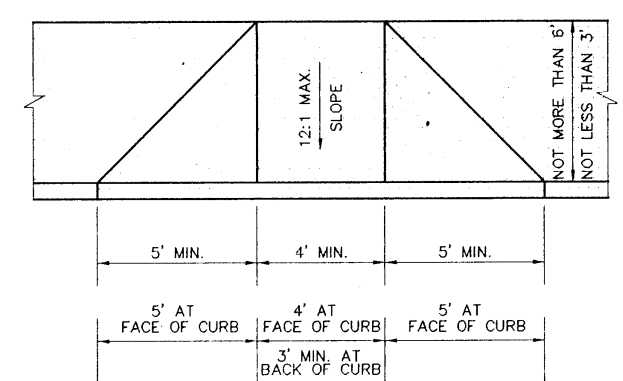
MANHOLE COVER
SCALE 1" = 1'



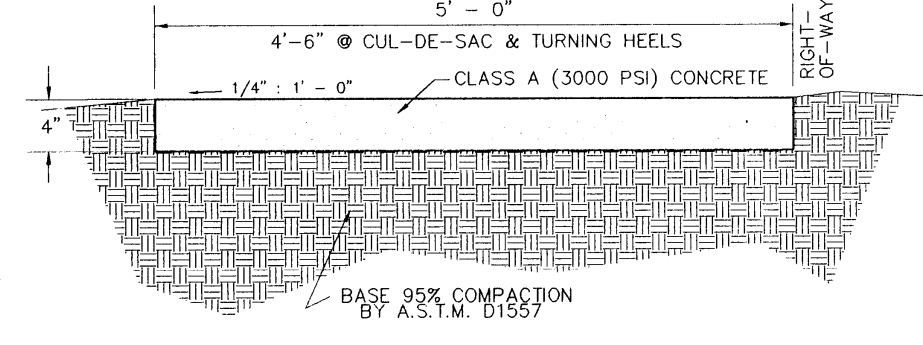
RAIL PLATE
SCALE 1" = 2'



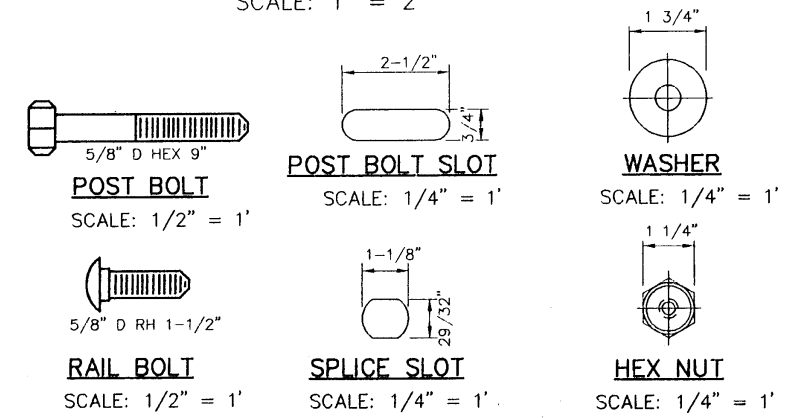
TERMINAL PLATE
SCALE 1" = 1'



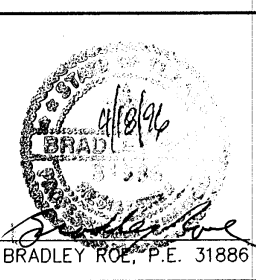
SECTION C - C
SCALE 1" = 4'



SECTION D - D
SIDEWALK DETAIL SCALE 1" = 1'



SCALE	
HOR.	AS NOTED
VER.	N/A
W.D.	100000-6
FILE:	CH37DET2.DWG
DATE:	JANUARY 13, 1995
DESIGN BY:	STAFF
DRAWN BY:	STAFF
CHKD. BY:	H.P. / STAFF
APPD. BY:	B.R. / H.P.

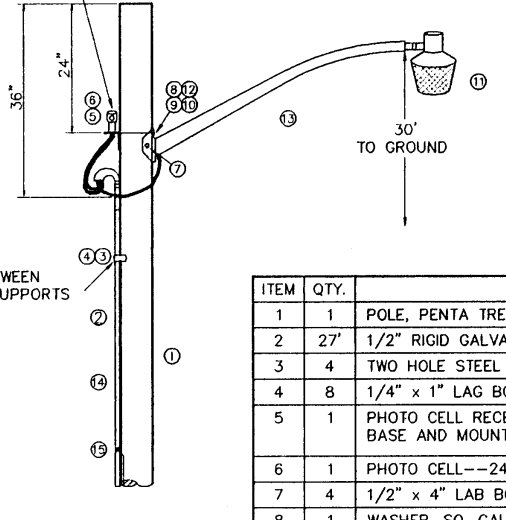


DETAILS
CHAPARRAL PARK SUBDIVISION
UNIT 37
TYPICAL DETAILS

brp **roe and associates**
801 S. CHINA ST. SUITE 100 EL PASO, TX 79901
(915) 533-1418 FAX (915) 533-4972
ENGINEERING/LAND DEVELOPMENT/PLANNING/SURVEYING
SHEET 19 OF 20

600445

MOUNT BRACKET SO CONTROL FACES NORTH AND IS SHIELDED FROM DIRECT CAMP LIGHT



MAXIMUM DISTANCE BETWEEN RIGID METAL CONDUIT SUPPORTS IS 10 FEET.

ITEM	QTY.	DESCRIPTION
1	1	POLE, PENTA TREATED PINE 3" CLASS III
2	27'	1/2" RIGID GALVANIZED STEEL CONDUIT
3	4	3/8" HOLE STEEL PIPE STRAP FOR 1/2" CONDUIT
4	8	1/4" x 1" LAG BOLT
5	1	PHOTO CELL RECEPTACLE WITH 1/2" THREADED BASE AND MOUNTING BRACKET
6	1	PHOTO CELL--240 VOLTS
7	4	1/2" x 4" LAG BOLTS
8	1	WASHER, 50 CALV. 2-1/4" x 2-1/4"
9	1	MACHINE BOLT 5/8" x 8"
10	1	LOCKNUT 5/8"
11	1	HIGH PRESSURE SODIUM FIXTURE 100 WATT
12	1	TRIMMER, COIL SPRING 5/8"
13	1	STEEL LUMINAIRE SUPPORT (10" OR 8") UNION METAL MANUF. CO. DESIGN 34B OR EQUIVALENT
14	1	2-#12 COPPER WIRES WITH TBN INSULATION
15	1	GROUND CLAMP FOR 1/2" RIGID CONDUIT

EXHIBIT "A"
SCALE 1" = 2' - 0"

- NOTES
- 1 THE DEPTH OF THE 35" CLASS III STREET LIGHT POLE SHALL BE 6'.
 - 2 THE HOLE SHALL BE DRILLED WITH A 1 1/2" DIAMETER AUGER.
 - 3 COMPACTION OF HOLE AND TRENCH WORK SHALL COMPLY WITH DDJ 14-1.
 - 4 DISTRIBUTION BUTT GROUNDING (SEE DDJ 6-13) SHALL BE USED.

ITEM	QTY.	DESCRIPTION
1	1	1/2" SCHEDULE 40 PVC COUPLING
2	1	1/2" SCHEDULE 40 PVC 18" RADIAL BEND
3	1	1/2" SCHEDULE 40 PVC FEMALE ADAPTER
4	1	1/2" x 8" PVC COATED RIGID STEEL CONDUIT NIPPLE
5	1	1/2" PVC COATED RIGID STEEL COUPLING

* - MUST MEET OCCIDENTAL COATING CO. SPECIFICATIONS.

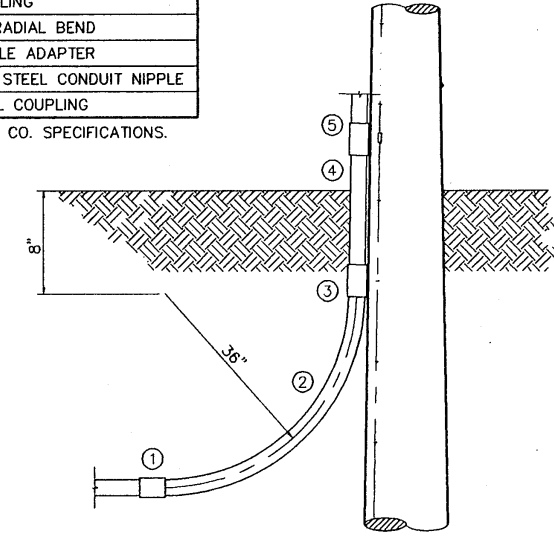
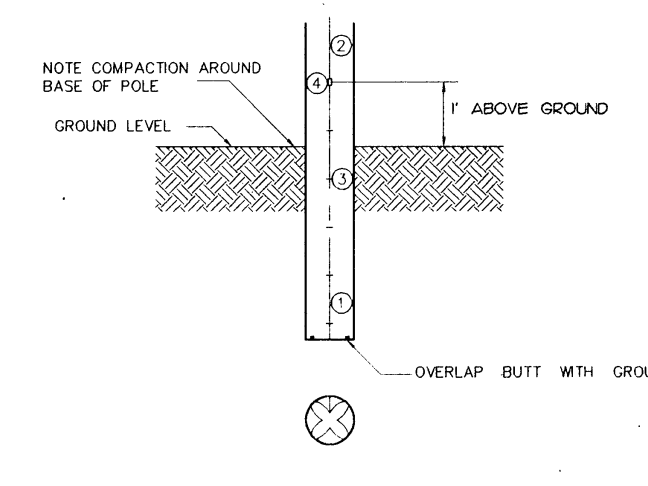
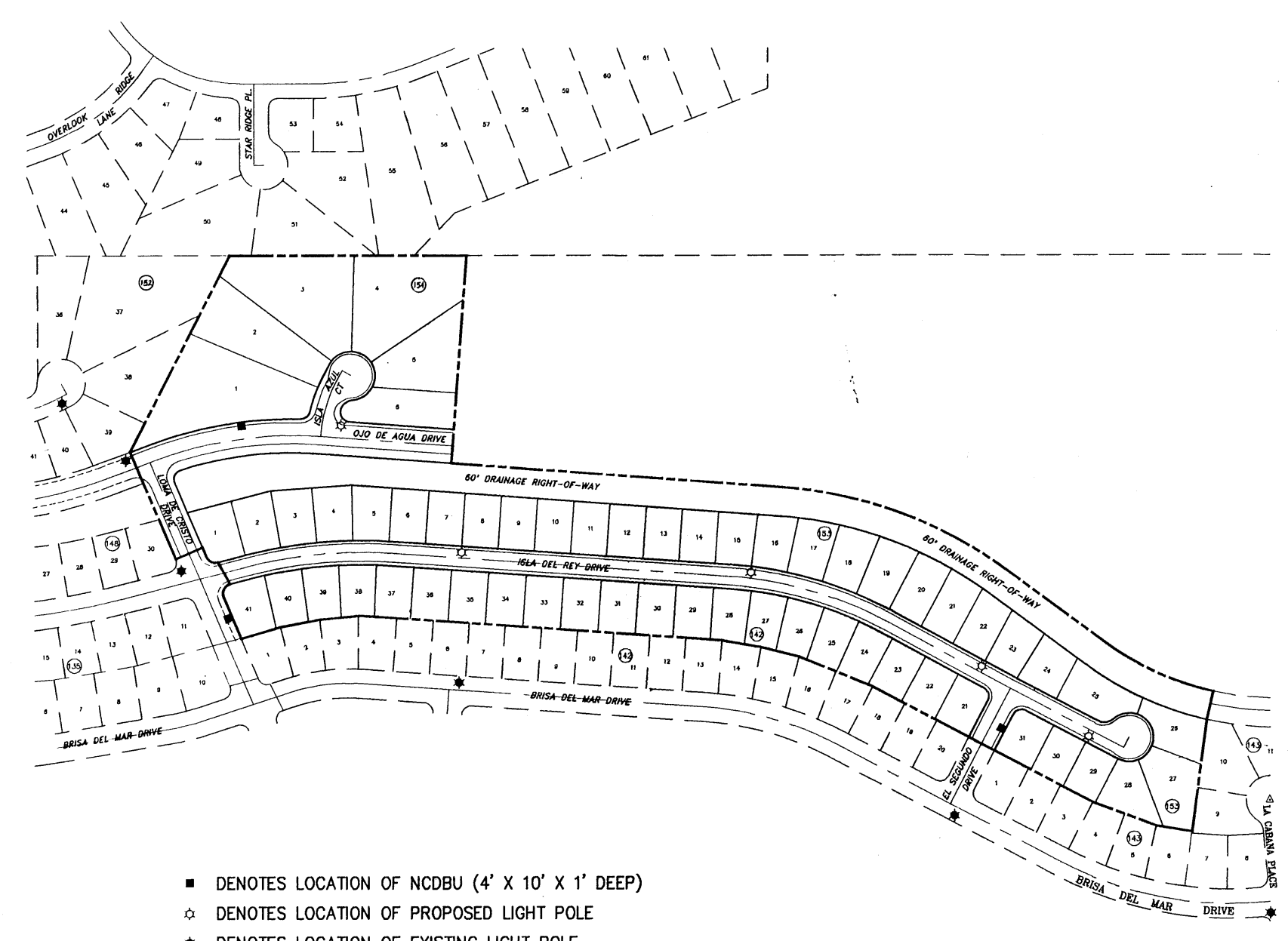


EXHIBIT "B"
SCALE 1" = 2' - 0"



ITEM	QTY.	DESCRIPTION
1	1	COPPER WIRE, #8 BARE SOLID HARD DRAWN
2	1	ALUMINUM WIRE, #4 BARE SOLID HARD DRAWN
3	1/2	STAPLE, GALVANIZED 1-1/2" NO. 9
4	1	SPLICE, #4 SOLID ALUMINUM TO #8 SOLID COPPER

EXHIBIT "C"
SCALE 1" = 2' - 0"



- DENOTES LOCATION OF NCDBU (4' X 10' X 1' DEEP)
- DENOTES LOCATION OF PROPOSED LIGHT POLE
- DENOTES LOCATION OF EXISTING LIGHT POLE

SCALE 1" = 200'

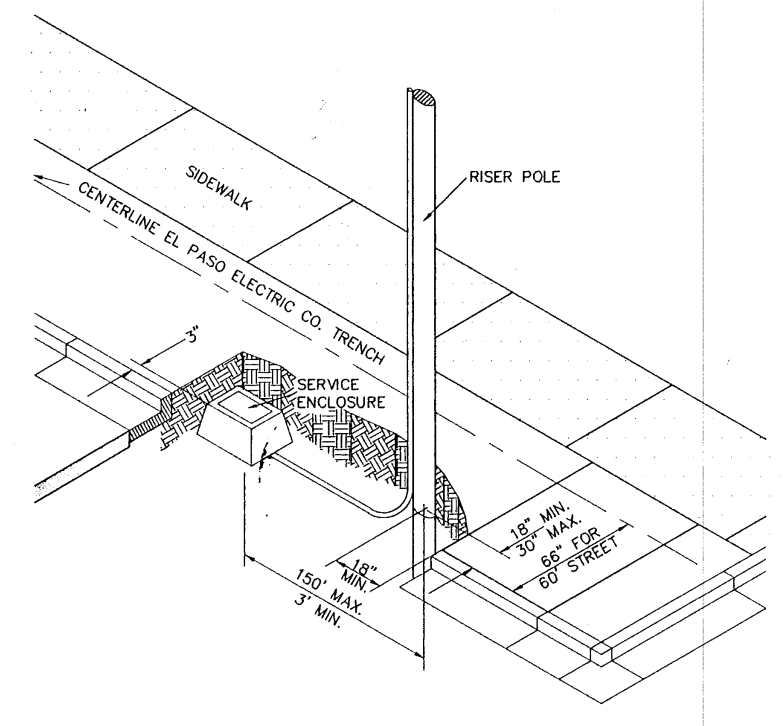


EXHIBIT "D"
SCALE 1" = 5' - 0"

STREET LIGHT LOCATION

THE FOLLOWING GENERAL STANDARDS SHALL GOVERN THE INSTALLATION OF STREET LIGHT IN RESIDENTIAL SUBDIVISIONS:

THE CENTER OF THE INTERSECTION AND THE CENTER OF THE CURVE'S ARC SHALL HAVE A MINIMUM ILLUMINATION OF 0.2 FOOTCANDLES. ILLUMINATION MAY VARY FROM MORE THAN ONE SOURCE. A CITY OF EL PASO STANDARD 30-FOOT HIGH, 100-WATT, HIGH PRESSURE, SODIUM RESIDENTIAL STREET LIGHT HAS AN ILLUMINATION OF 0.2 FOOTCANDLES AT A DISTANCE OF APPROXIMATELY 185 FEET FROM THE LIGHT.

EXHIBIT "E"
SCALE 1" = 5' - 0"

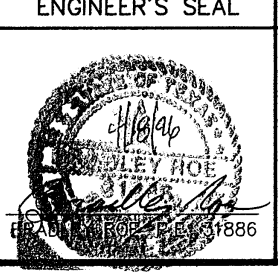
DEVELOPER TO COORDINATE WITH THE EL PASO ELECTRIC COMPANY, [JANET CASTLE (915) 543 - 2255] FOR PROPER SCHEDULING AND CONSTRUCTION OF THESE FACILITIES.

DATE	REVISIONS	BY	BENCHMARK
95-01-93	CHANGED BLOCK NO. 149 TO 154	DAMC	BENCHMARK: CITY MONUMENT LOCATED AT THE CENTERLINE INTERSECTION OF BRISA DEL MAR DRIVE AND EL SEGUNDO DRIVE, ELEVATION 4221.01 (CITY DATUM)

BENCHMARK: CITY MONUMENT LOCATED AT THE CENTERLINE INTERSECTION OF BRISA DEL MAR DRIVE AND EL SEGUNDO DRIVE, ELEVATION 4221.01 (CITY DATUM)

SCALE 1" = 200'

VER: N/A
W.G. 101994-6
FILE: CH37L1DWG
DATE: JANUARY 13, 1995
DESIGN BY: STAFF
DRAWN BY: STAFF
CHKD. BY: H.P.
APPD. BY: S.R.



ILLUMINATION

CHAPARRAL PARK SUBDIVISION
UNIT 37

ILLUMINATION PLAN AND DETAILS/
U.S. POSTAL SERVICE NCDPU LOCATIONS

bmp **roe and associates**

801 N. Collins St. Suite No. 6 El Paso, TX 79902
(915) 533-1419 FAX (915) 533-4972
ENGINEERING/LAND DEVELOPMENT/PLANNING/SURVEYING

SHEET 20 OF 20

000445