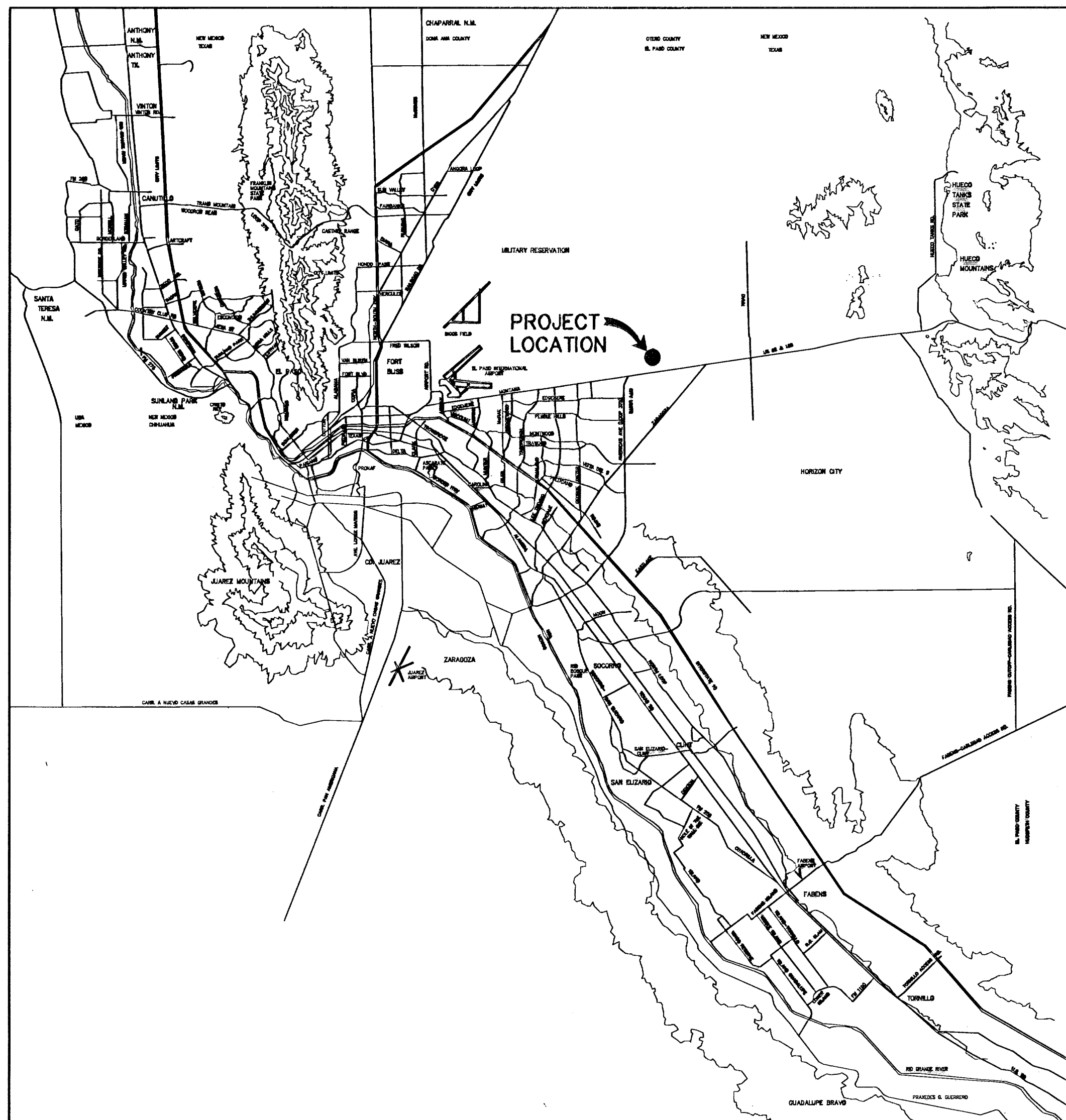


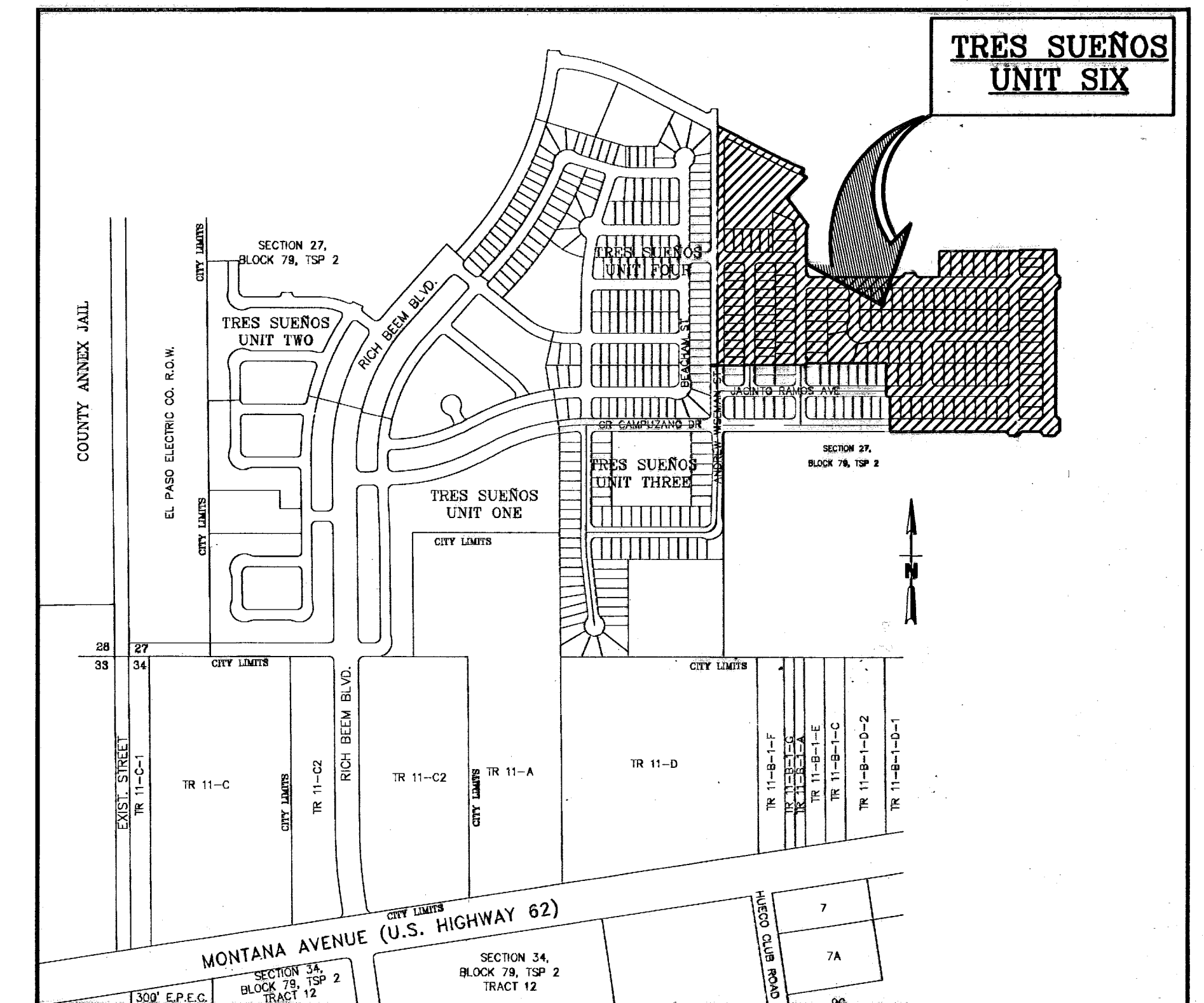
# TRES SUEÑOS UNIT SIX SUBDIVISION IMPROVEMENTS

A PORTION OF SECTION 27, BLOCK 79, TOWNSHIP 2, TEXAS AND  
PACIFIC RAILWAY SURVEYS, CITY OF EL PASO, EL PASO COUNTY, TEXAS  
30.19± ACRES

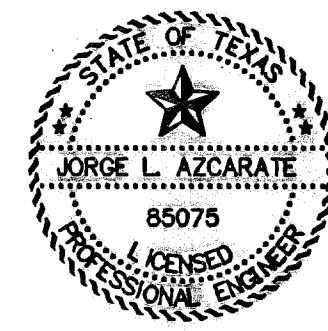


VICINITY MAP  
APPROXIMATE SCALE:  
1" = 2 MILES

SHEET NUMBER	SHEET TITLE
CVR,1	COVER SHEET - HEADING WITH LEGAL DESCRIPTION AND NUMBER OF ACRES; INDEX OF SHEETS; VICINITY MAP, LOCATION MAP, PRINCIPAL CONTACTS; TITLE - REVISION BLOCK AND ENGINEER'S SEAL.
2,3	FINAL PLAN - HEADING WITH LEGAL DESCRIPTION OF SUBDIVISION AND NUMBER OF ACRES; OWNER'S DEDICATION, CERTIFICATION, AND ATTESTATION; SUBDIVISION MEETS AND BOUNDS WITH SURVEYORS CERTIFICATION, NOTARY SEAL, CITY APPROVAL CERTIFICATE, COUNTY APPROVAL CERTIFICATE, COUNTY CLERK RECORDING CERTIFICATE; LOCATION MAP AND E.I.U. STATUS; PLAT NOTES AND RESTRICTIONS; PLAT MAP WITH UTILITY EASEMENTS, LOT AND BLOCK NUMBERS, LOT SIZE, NUMBER OF LOTS, ADDRESSES FOR EACH LOT, LOTS AND ROADS DIMENSIONS, PRINCIPAL CONTACT; TITLE - REVISION BLOCK AND ENGINEER'S SEAL.
4,6,7	GRADING PLAN AND GRADING SECTIONS.
5	DRAINAGE PLAN.
8-23	STREET PLAN & PROFILES
24-26	STORM SEWER PLAN & PROFILES
27-29	STANDARD DETAILS
30,31	DRAINAGE DETAILS
32	ILLUMINATION PLAN
33	POND DESIGN PLAN
34-36	SWPPP
S-1	SANITARY SEWER INDEX / GENERAL INFORMATION
S-2 - S-6	SANITARY SEWER PLAN & PROFILES
S-7 - S-9	SANITARY SEWER DETAILS
W-1	WATER INDEX / GENERAL INFORMATION
W-2 - W-5	WATER LINE PLAN & PROFILES
W-6 - W-9	WATER DETAILS



LOCATION MAP  
SCALE: 1" = 600'



*JL Azcarate* 9/2/10  
JORGE L. AZCARATE, P.E. PROJECT MANAGER



PRINCIPAL CONTACTS:

NAME	ADDRESS	CITY & ZIP	PHONE	FAX
OWNER:	CAREFREE LAND II, L.P.	12200 PASEO NUEVO DR.	EL PASO, 79928	(915) 590-8511 (915) 591-3813
ENGINEER:	CEA GROUP	4712 TRANSMOUNTAIN RD, STE. F	EL PASO, 79924	(915) 544-5232 (915) 544-5233
SURVEYOR:	BARRAGAN & ASSOCIATES	10950 PELLICANO DR. BLDG F	EL PASO, 79938	(915) 591-5709 (915) 591-5706

TRES SUEÑOS UNIT SIX COVER SHEET				
DATE PREPARED	DRAWN BY:	DESIGN BY:	CHECKED BY:	APPROVED BY:
AUGUST 2008	DANIEL R. NAVA	JORGE GRAJEDA	JORGE L. AZCARATE	JORGE L. AZCARATE
REVISION NUMBER	SHEET NAME OR NUMBER	DESCRIPTION OF REVISION	DATE OF REVISION	REVISION APPROVED BY:

RECORD DRAWINGS  
THESE RECORD DOCUMENTS HAVE BEEN PREPARED BASED ON INFORMATION PROVIDED BY OTHERS. CEA GROUP HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION AND SHALL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS THAT MAY BE INCORPORATED AS A RESULT OF ERRONEOUS INFORMATION PROVIDED BY OTHERS.  
09/01/10

GENERAL NOTES

- 1. THE CONTRACTOR SHALL VISIT AND FAMILIARIZE HIMSELF WITH THE PROJECT SITE PRIOR TO SUBMITTING BIDS.
2. CONTRACTOR SHALL WATER CONSTRUCTION AREA A MINIMUM OF TWICE A DAY TO KEEP DUST TO A MINIMUM...
3. IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE, PROTECT, AND REPLACE ALL UNDERGROUND UTILITY LINES AT NO EXTRA COST TO THE OWNER...
4. IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO SCHEDULE AND PERFORM HIS WORK SO AS TO ASSURE PROPER PASSAGE OF STORM RUNOFF DURING THE COURSE OF HIS OPERATIONS...
5. THE CONTRACTOR SHALL COORDINATE THE CONSTRUCTION SCHEDULE WITH THE USER, ALL UTILITIES, AND ALL OTHER AGENCIES WITH JURISDICTION OVER THE PROJECT.
6. ALL EXISTING PAVEMENT, ADJACENT UTILITIES, STRUCTURES, ETC., DISTURBED AS A RESULT OF THE NEW CONSTRUCTION, SHALL BE REPLACED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
7. THE OWNER WILL FURNISH HORIZONTAL AND VERTICAL CONTROL REFERENCED POINTS ONLY. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND GRADES BEFORE PROCEEDING WITH THE WORK...
8. SEE REFERENCED BENCHMARK ON TITLE BLOCK FOR DATUM ELEVATIONS.
9. VIBRATORY ROLLERS WILL NOT BE PERMITTED ON ANY PHASE OF THIS PROJECT, UNLESS APPROVED IN WRITING BY THE ENGINEER.
10. ALL WORK REQUIRED BY THESE PLANS SHALL BE CONDUCTED IN CONFORMANCE WITH CURRENT SAFETY CODES AND STANDARDS WITH JURISDICTION OVER THE PROJECT.
11. THE LOCATION OF THE INLETS SHALL BE AT THE FIELD LOW POINT AND APPROVED BY THE ENGINEER.

GRADING SPECIFICATIONS

- 1. CLEARING AND GRUBBING: CLEAR SITE OF TREES, SHRUBS AND OTHER VEGETATION; COMPLETELY REMOVE STUMPS, ROOTS AND OTHER DEBRIS PROTRUDING THROUGH GROUND SURFACE; FILL DEPRESSIONS CAUSED BY CLEARING AND GRUBBING OPERATIONS WITH SATISFACTORY FILL MATERIAL, UNLESS FURTHER EXCAVATION OF EARTHWORK IS INDICATED; REMOVE EXISTING ABOVE-GRADE AND BELOW-GRADE IMPROVEMENTS AS INDICATED AND AS NECESSARY TO FACILITATE NEW CONSTRUCTION. BURNING IS NOT PERMITTED ON OWNER'S PROPERTY. REMOVE WASTE MATERIALS FROM OWNER'S PROPERTY.
2. SATISFACTORY FILL MATERIALS: FILL MATERIALS SHALL BE FREE OF ANY ORGANIC OR DELETERIOUS SUBSTANCE AND SHALL NOT CONTAIN ROCKS OR LUMPS OVER 3 INCHES IN GREATEST DIMENSION AND SHALL BE DEFINED AS THOSE COMPLYING WITH ASTM D2487 SOIL CLASSIFICATION GROUPS GW, GP, GM, GC, SM, SP, SM, AND SC.
3. UNSATISFACTORY FILL MATERIAL: ARE DEFINED AS THOSE COMPLYING WITH ASTM D2487 SOIL CLASSIFICATION GROUPS ML, MH, CL, CH, OL, OH, AND PT, OR WHERE THE PLASTICITY INDEX EXCEEDS 12, UNLESS OTHERWISE APPROVED BY ENGINEER, M.U.D. ENGINEER OR COUNTY ENGINEER.
4. EXCAVATION: IS UNCLASSIFIED AND INCLUDES EXCAVATION TO ELEVATIONS INDICATED, REGARDLESS OF CHARACTER OF MATERIAL AND OBSTRUCTIONS ENCOUNTERED.
5. GROUND SURFACE PREPARATION FOR FILL: REMOVE VEGETATION, DEBRIS, UNSATISFACTORY SOIL MATERIAL, OBSTRUCTIONS, AND DELETERIOUS MATERIAL FROM GROUND SURFACE UPON WHICH THE FILL IS TO BE PLACED. THE SURFACE SHALL THEN BE SCARIFIED TO A DEPTH OF AT LEAST 6-INCHES, AND UNTIL THE SURFACE IS FREE FROM RUTS, HUMMOCKS OR OTHER UNEVEN FEATURES WHICH WOULD PREVENT UNIFORM COMPACTION. PLOW STRIP, OR BREAK UP SLOPED SURFACES STEEPER THAN 1 VERTICAL TO 4 HORIZONTAL SO THAT FILL MATERIAL WILL BOND WITH EXISTING SURFACE. AFTER PLOWING AND SCARIFYING FILL AREA, IT SHALL THEN BE DISCED OR BLADED UNTIL IT IS UNIFORM AND FREE FROM LARGE CLODS, BROUGHT TO OPTIMUM MOISTURE, AND COMPACTED TO 95% OF MAXIMUM DENSITY IN ACCORDANCE WITH ASTM D-1557.
6. PLACEMENT OF FILL: PLACE BACKFILL AND FILL MATERIALS IN LAYERS NOT MORE THAN 8 INCHES IN LOOSE DEPTH FOR MATERIAL COMPACTED BY HEAVY COMPACTION EQUIPMENT, AND NOT MORE THAN 4 INCHES IN LOOSE DEPTH FOR MATERIAL COMPACTED BY HAND-OPERATED TAMPERS. BEFORE COMPACTION, MOISTEN OR AERATE EACH LAYER AS NECESSARY TO PROVIDE OPTIMUM MOISTURE CONTENT. PLACE FILL MATERIALS EVENLY ADJACENT TO SITE APPURTENANCES, PIPING, OR CONDUIT TO REQUIRED ELEVATIONS. PREVENT WEDGING ACTION OF BACKFILL AGAINST SITE APPURTENANCES OR DISPLACEMENT OF PIPING OR CONDUIT BY CARRYING MATERIAL UNIFORMLY AROUND SITE APPURTENANCES, PIPING, OR CONDUIT TO APPROXIMATELY SAME ELEVATION IN EACH LIFT. COMPACT SOIL TO NOT LESS THAN 95% OF MAXIMUM DENSITY, IN ACCORDANCE WITH ASTM D1557.
7. MOISTURE CONTROL: WHERE SUBGRADE OR LAYER OF SOIL MATERIAL MUST BE CONDITIONED FOR OPTIMUM MOISTURE BEFORE COMPACTION, UNIFORMLY APPLY WATER TO SURFACE OF SUBGRADE OR LAYER OF SOIL MATERIAL. APPLY WATER IN MINIMUM QUANTITY AS NECESSARY TO PREVENT FREE WATER FROM APPEARING ON SURFACE DURING OR SUBSEQUENT TO COMPACTION OPERATIONS. WATER CONTENT SHALL BE WITHIN 2 PERCENTAGE POINTS OF OPTIMUM MOISTURE CONTENT. REMOVE AND REPLACE, OR SCARIFY AND AIR DRY SOIL MATERIAL THAT IS TOO WET TO PERMIT COMPACTION TO SPECIFIED DENSITY.
8. QUALITY CONTROL: THE OWNER SHALL PROVIDE A GEOTECHNICAL ENGINEER TO PERFORM FIELD DENSITY TEST OF THE COMPACTION OF EACH LAYER OF FILL. DENSITY TESTS SHALL BE TAKEN IN THE COMPACTED MATERIAL BELOW THE DISTURBED SURFACE. WHEN THESE TESTS INDICATE THAT THE DENSITY OF ANY LAYER OF FILL OR PORTION THEREOF IS BELOW THE REQUIRED DENSITY, THE PARTICULAR LAYER OR PORTION SHALL BE REWORKED UNTIL THE REQUIRED DENSITY HAS BEEN OBTAINED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL ADDITIONAL TESTING AND WHEN REQUIRED DENSITIES ARE NOT MET, SUPERVISION BY THE GEOTECHNICAL ENGINEER DURING THE GRADING OPERATIONS TO ENSURE GRADING WORK IN ACCORDANCE WITH THIS PLAN AND SPECIFICATIONS.
9. A PRE-CONSTRUCTION MEETING WITH THE COUNTY WILL BE REQUIRED PRIOR TO ANY CONSTRUCTION WORK.

LEGEND

- SUBDIVISION BOUNDARY
--- ROW LINE
--- CURB LINE
--- PROPERTY LINE
--- STREET CENTERLINE
--- EASEMENT LINE
--- MATCH LINE
--- STORM SEWER LINE
--- HIGH WATER MARK
--- CURB AND GUTTER DROP INLET
--- STORM SEWER MANHOLE
--- FINISHED GROUND CONTOUR ELEVATION (INDEX)
--- FINISHED GROUND CONTOUR ELEVATION (INTERMEDIATE)
--- EXISTING GROUND CONTOUR ELEVATION (INDEX)
--- EXISTING GROUND CONTOUR ELEVATION (INTERMEDIATE)
--- NEW RETAINING ROCKWALL (2'-3' IN HEIGHT)
--- NEW RETAINING ROCKWALL (3'-9' IN HEIGHT)
--- STANDARD DETAIL/SECTION NUMBER
--- SHEET NUMBER WHERE STANDARD/SECTION DETAIL IS LOCATED
--- FINISHED SPOT ELEVATION
--- LOT FINISHED GROUND ELEVATION
--- TOP OF CURB ELEVATION
--- TOP OF PAVEMENT ELEVATION
--- SUBDIVISION LOT AND BLOCK NUMBER
--- DRAINAGE FLOW
--- HIGH POINT
--- LOW POINT
--- EXISTING HIGH POINT
--- EXISTING LOW POINT
--- HEADWALL WITH WINGWALLS
--- DRAINAGE AREA
--- HORIZONTAL:VERTICAL SLOPE RATIO
--- WHEELCHAIR RAMP

ABBREVIATIONS

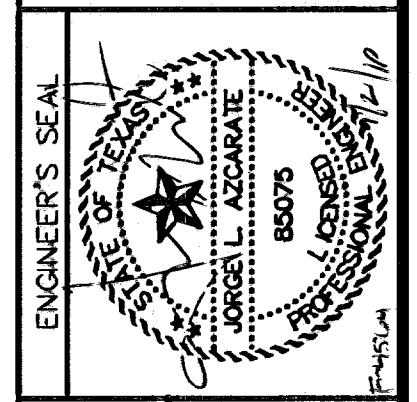
- LP LOW POINT
HP HIGH POINT
ELEV ELEVATION
STA STATION
VCS VERTICAL CURVE STATION
VCE VERTICAL CURVE ELEVATION
TC TOP OF CURB
TM TOP OF MEDIAN
TP TOP OF PAVEMENT
TYP TYPICAL
PVC POINT OF VERTICAL CURVE
PM POINT OF VERTICAL INTERSECTION
PVT POINT OF VERTICAL TANGENT
AD ALGEBRAIC DIFFERENCE
CR CURVE RETURN
ROW RIGHT OF WAY
CL CENTER LINE
PL PROPERTY LINE
FG FINISH GRADE
FF FINISH FLOOR
EG EXISTING GRADE
MIN. MINIMUM
MAX. MAXIMUM
RCP REINFORCED CONCRETE PIPE
Q QUANTITY
CAP CAPACITY
EXP EXPECTED
INV INVERT
CFS CUBIC FEET PER SECOND
A AREA
DA DRAINAGE AREA
LF LINEAR FEET
STD STANDARD
CONC CONCRETE
PC POINT OF CURVATURE
PI POINT OF INTERSECTION
PT POINT OF TANGENT
L LENGTH
R RADIUS
T TANGENT
A DELTA ANGLE
S SLOPE
TEMP TEMPORARY
V VELOCITY IN FEET PER SECOND
HFL HYDRAULIC GRADE LINE
HWE HIGH WATER ELEVATION

UTILITY LOCATOR SERVICES
EL PASO ELECTRIC COMPANY (915) 543-5720
EL PASO ENERGY CORPORATION (915) 496-5244
EL PASO WATER UTILITIES (915) 594-5527
MCI SURVEILLANCE (800) MCI-WORK
PARAGON CABLE (915) 772-1123
TEXAS GAS CO. (915) 544-8300
SOUTHWESTERN BELL TELEPHONE (800) 828-5127
AT&T (800) 852-3786
U.S. SPRINT TELECOMM (800) 521-0579

WARNING I BEFORE YOU DIG
CALL 1-800-DIG-TESS
1-800-344-8377
FOR FIELD LOCATING EXISTING UTILITIES

REFERENCES - BENCHMARKS
CITY MONUMENT AT POINT OF CURVE
CENTERLINE RICH BEEM BLVD., S08°43'31" E A DISTANCE OF 467.58 FEET FROM THE SOUTHERLY RIGHT OF WAY LINE OF MONTANA AVENUE CITY DATUM
ELEVATION: 4005.40

osca
engineers • architects • planners
Customer Center @ TransSouthStar
4712 Woodrow Bark St. • El Paso, TX 79904
Office: 915.544.5222 Fax: 915.544.5233 www.oscainc.com



SCALE
Horizontal: N/A
Vertical: N/A
Contour: N/A
Intersect: N/A
DATE: MARCH 2009
DESIGN BY: J.G.
DRAWN BY: J.L.A.
CHKD. BY: J.L.A.
APP'D. BY: J.L.A.
JOB No. 2008-100.LD

PROJECT TITLE
TRES SUEÑOS UNIT SIX
SUBDIVISION IMPROVEMENTS

SHEET TITLE
GENERAL INFORMATION
SHEET NO.
1
OF 36

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SPECIAL CONDITIONS

- 1. CONTRACTOR SHALL HAVE A QUALIFIED PROJECT SUPERINTENDENT AT THE PROJECT SITE AT ALL TIMES DURING THE CONSTRUCTION DURATION.
2. CONTRACTOR SHALL PREPARE CURB GRADES WITHIN 0.10- FEET.
3. CONTRACTOR TO INSTALL AND MAINTAIN SW3P BEST MANAGEMENT PRACTICES AS INDICATED ON THE PLANS. CONTRACTOR SHALL COMPLY WITH THE SW3P SPECIFICATIONS, AND TCEQ RULES AND REGULATIONS. CONTRACTOR SHALL BE RESPONSIBLE FOR CONFORMING TO ALL SW3P REGULATIONS.
4. CONTRACTOR SHALL CONSTRUCT TEMPORARY SLOPES BETWEEN LOTS THAT HAVE A VERTICAL GRADE DIFFERENTIAL OF OVER 6- FEET.

RECORD DRAWINGS

THESE RECORD DOCUMENTS HAVE BEEN PREPARED BASED ON INFORMATION PROVIDED BY OTHERS. OSA GROUP HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION AND SHALL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS THAT MAY BE INCORPORATED AS A RESULT OF ERRONEOUS INFORMATION PROVIDED BY OTHERS.
09/01/10

# TRES SUEÑOS UNIT SIX

A PORTION OF SECTION 27, BLOCK 79, TOWNSHIP 2, TEXAS AND PACIFIC RAILWAY SURVEYS, CITY OF EL PASO, EL PASO COUNTY, TEXAS  
30.19± ACRES  
SHEET 1 OF 2

**DEDICATION**  
Carefree Land II, L.P., the owner of this land, do hereby present this map and dedicate their respective portions of property to the use of the public, the streets, drives, ponding area, drainage easement and utility easements as hereon laid down and designated, including easements for overhead of service wires for pole type utilities and the right for installation of service poles alongside lot lines as may be required, easements for 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 my signature this 20<sup>th</sup> day of April, 2009.  
*Sarah Thomas*  
Sarah Thomas, President  
Carefree Land II, L.P.

**ACKNOWLEDGEMENT**  
STATE OF TEXAS  
COUNTY OF EL PASO  
Before me, the undersigned authority, on this day personally appeared Sarah Thomas President of Carefree Land II, L.P., known to me to be the person whose name is subscribed to the foregoing instrument and acknowledged to me that he executed the same as the act and deed for the purpose and consideration herein expressed.  
Given under my hand and seal of office this 20<sup>th</sup> day of April, 2009.  
*John C. Cantor*  
Notary Public in and for El Paso County  
*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 7 day of May, 2009.  
*Carlos Aguilera* Chairman  
*Philip Thomas* Secretary  
Approved for filing this 11<sup>th</sup> day of May, 2009.  
*Vicki J. Jones*  
DEVELOPMENT SERVICES DIRECTOR

**FILING**  
Filed and recorded in the office of the County Clerk of El Paso County, Texas, this 22 day of May, 2009, in File No. 20090035161 of the Plat Records.  
*Jose Roman* County Clerk  
*Suanna Aquilina* by Deputy

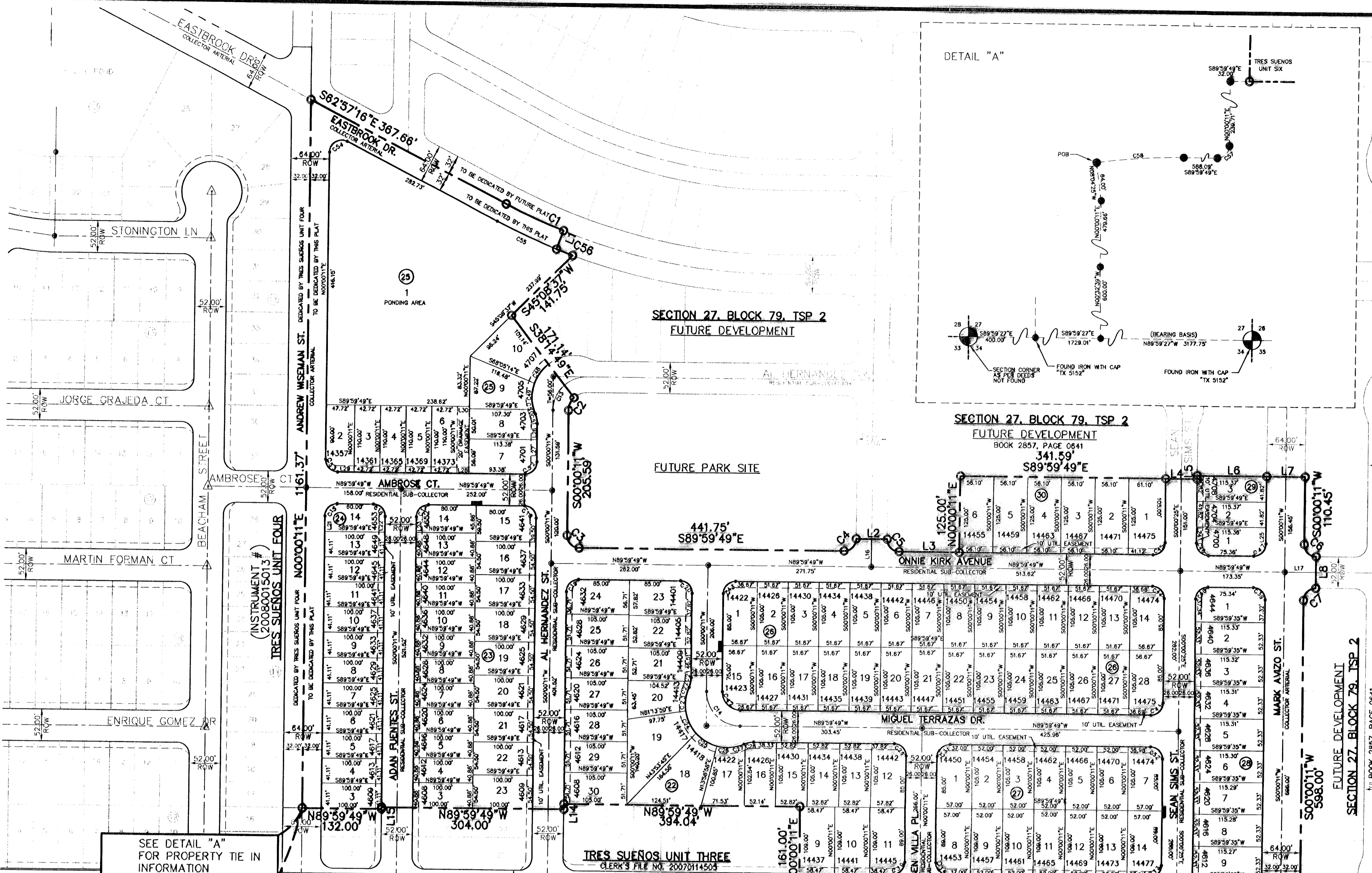
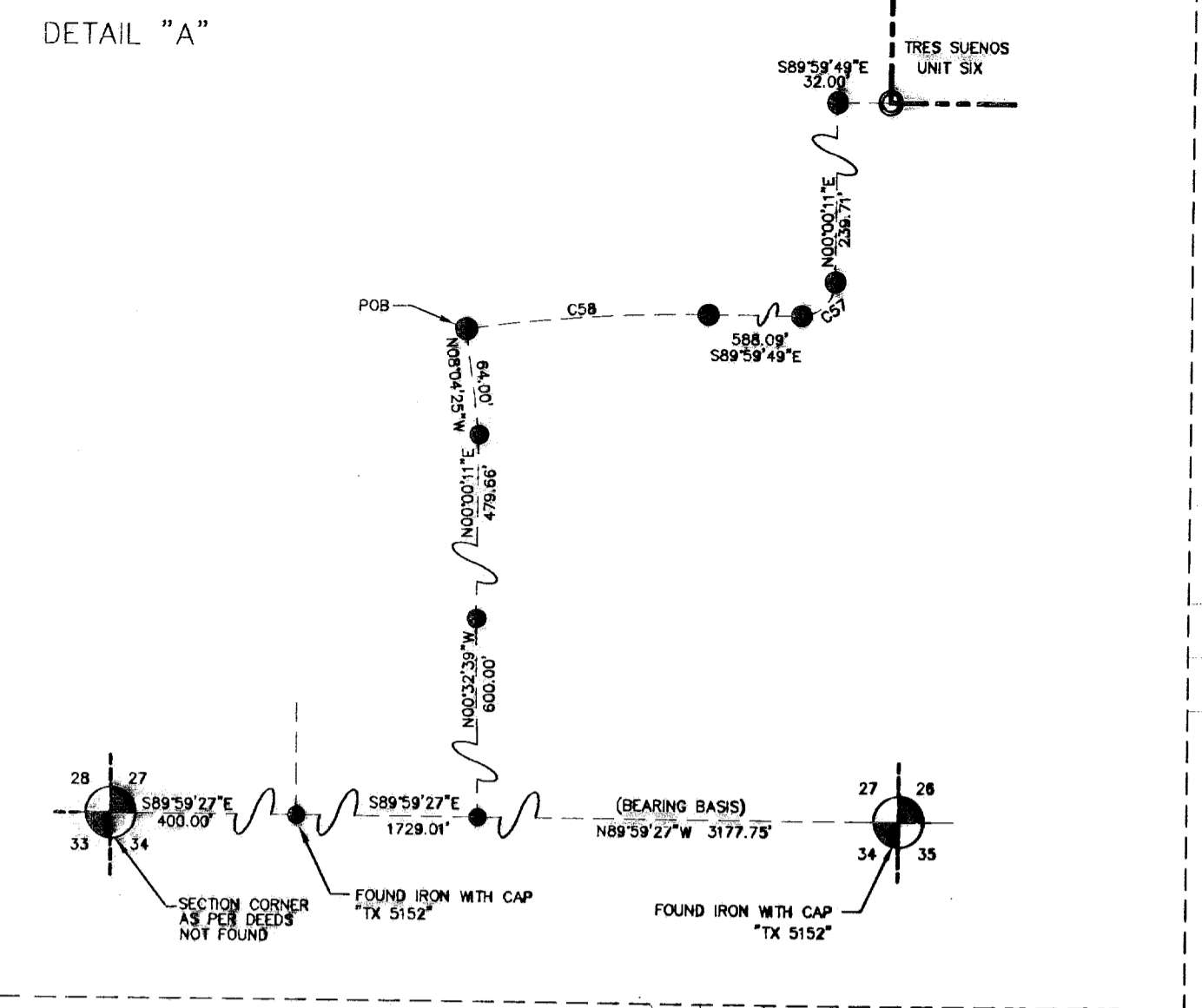


Subdivision improvement plans prepared by and under the supervision of CEA Group.  
*Jorge L. Azcarate* 3/27/09  
Jorge L. Azcarate, P.E.  
Licensed Professional Engineer  
Texas License No. 85075

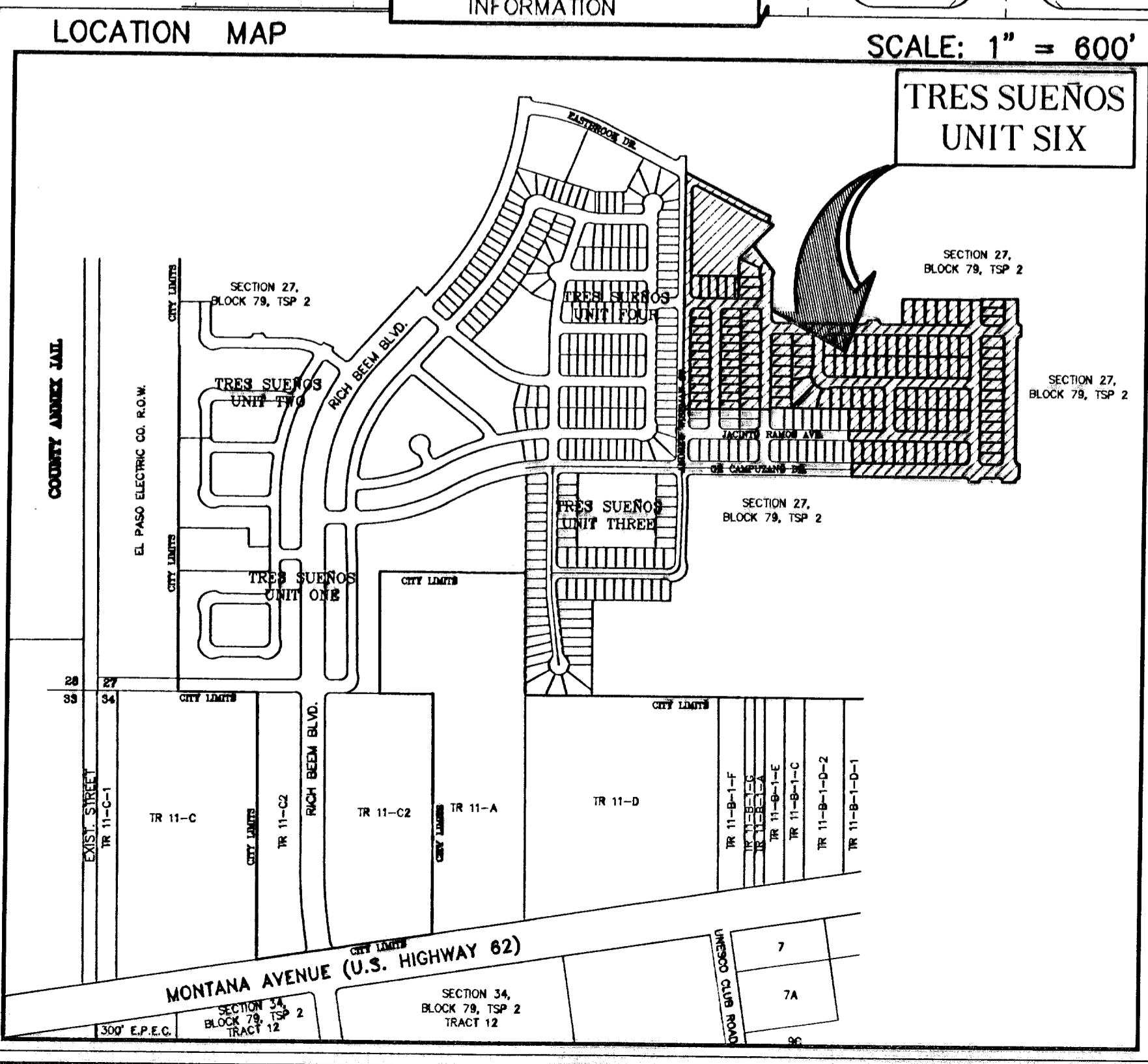
This plat represents a survey made on the ground by me or under my supervision and complies with the current Texas Board of Professional Land Survey Professional and Technical Standards.  
*Benito Barragan*  
Benito Barragan, R.P.L.S. Texas, No. 5615

**cea**  
GROUP  
engineers • architects • planners  
4712 Transmountain Rd. Ste. F  
El Paso, Texas 79924  
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www.ceagroup.net  
CONTACT: JORGE L. AZCARATE, P.E.

**SURVEYOR**  
**Barragan & Associates**  
LAND PLANNING & LAND SURVEYING  
10950 Pellicano Dr. Bg. F - El Paso Tx 79936  
Phone (915) 591-5709 Fax (915) 591-5706  
CONTACT: BENITO BARRAGAN, R.P.L.S.



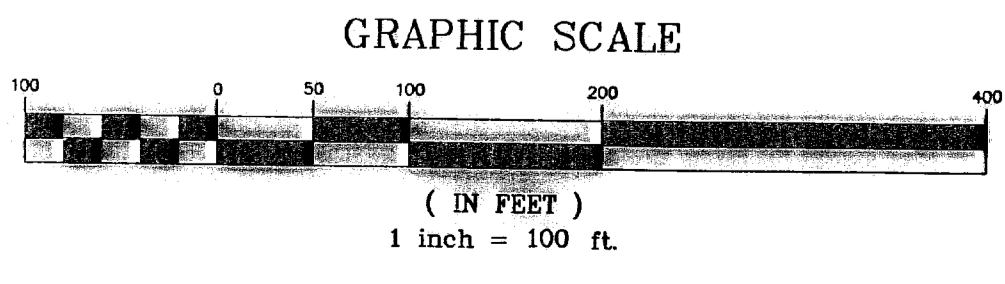
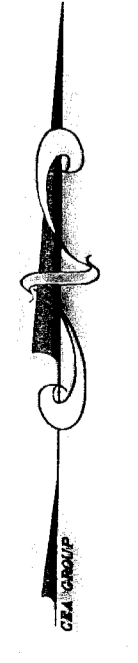
SEE DETAIL "A" FOR PROPERTY TIE INFORMATION



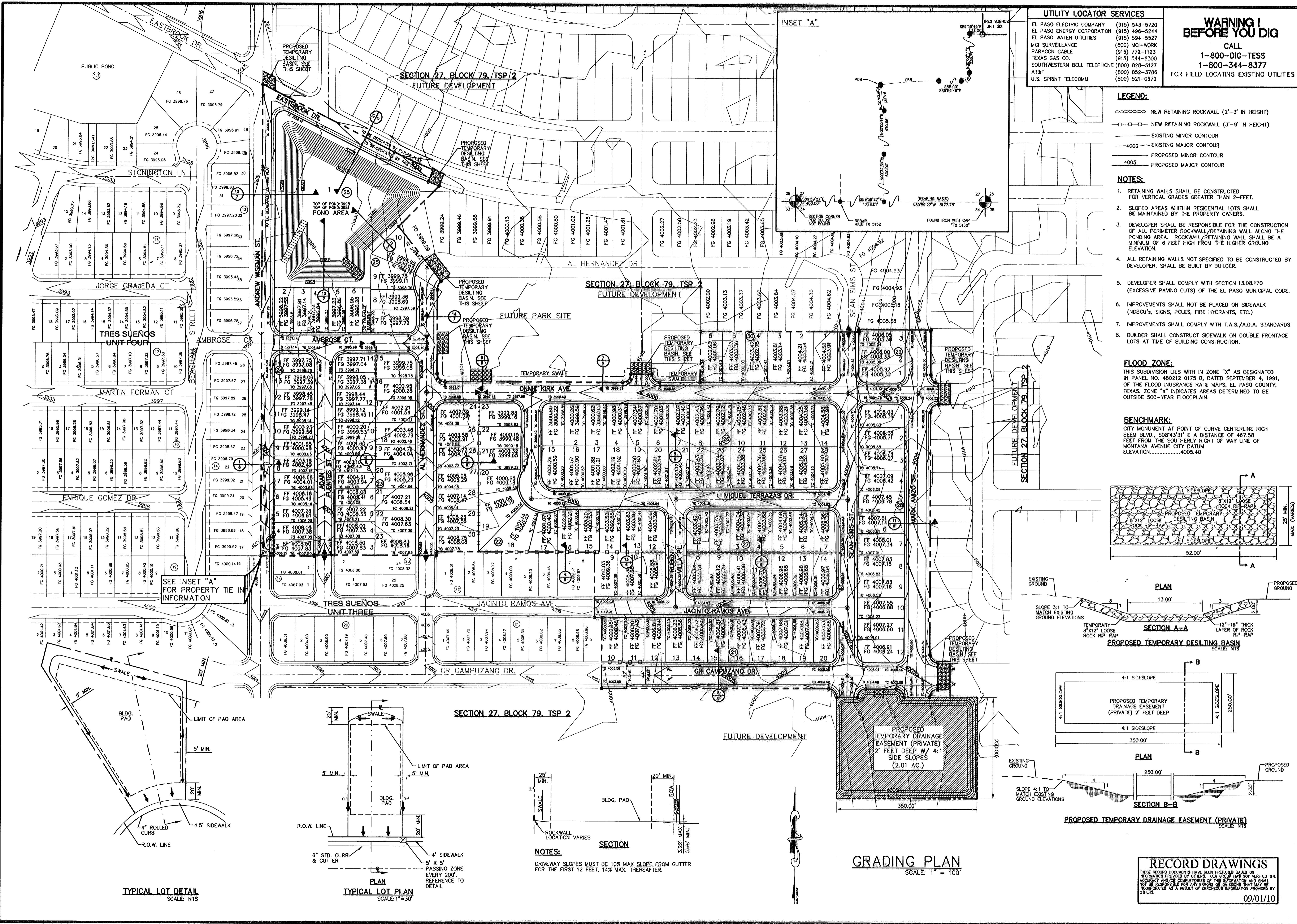
SCALE: 1" = 600'

TRES SUEÑOS UNIT SIX

- NOTES:**
- THIS IS TO CERTIFY THAT WATER AND SEWER SERVICES WILL BE PROVIDED TO TRES SUEÑOS UNIT SIX BY THE EL PASO WATER UTILITIES/PUBLIC SERVICE BOARD IN ACCORDANCE WITH THEIR RULES AND REGULATIONS AND WITH SECTION 18.143 OF THE TEXAS WATER CODE. WATER AND SEWER SERVICES WILL BE EXTENDED TO THE SUBDIVISION FROM EXISTING FACILITIES LOCATED IN JACINTO RAMOS DRIVE AND ANDREW WISEMAN STREET AND WILL BE CONSTRUCTED TO SERVE THE SUBDIVISION.
  - TAX CERTIFICATE(S) FOR THIS SUBDIVISION ARE IN THE OFFICE OF THE COUNTY CLERK, DEED AND RECORD SECTION.  
INSTRUMENT NO. 20090035162, 20090035163
  - VEHICULAR ACCESS TO THOSE RESIDENTIAL LOTS ABUTTING GR. CAMPUZANO DRIVE, MARK AVIZO STREET AND ANDREW WISEMAN STREET 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. 20090035164
  - RESTRICTIVE COVENANTS FOR THIS SUBDIVISION ARE FILED IN THE OFFICE OF THE COUNTY CLERK, DEED AND RECORD SECTION.  
INSTRUMENT NO. 20090035165
  - INTERIOR LOT CORNERS WILL BE SET UPON COMPLETION OF CONSTRUCTION OF ROADWAYS AND UTILITIES.
  - THIS SUBDIVISION LIES WITH IN ZONE "X" AS DESIGNATED IN PANEL NO. 480212 0175 B, DATED SEPTEMBER 4 1991, OF THE FLOOD INSURANCE RATE MAP-2, EL PASO COUNTY, TEXAS. ZONE "X" INDICATES AREAS DETERMINED TO BE OUTSIDE 500-YEAR FLOODPLAIN.
  - POSTAL SERVICE WILL BE PROVIDED THROUGH NEIGHBORHOOD DELIVERY AND COLLECTION BOX UNITS.







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SOUTHWESTERN BELL TELEPHONE	(800) 828-5127
AT&T	(800) 852-3788
U.S. SPRINT TELECOMM	(800) 521-0879

**WARNING!**  
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**1-800-344-8377**

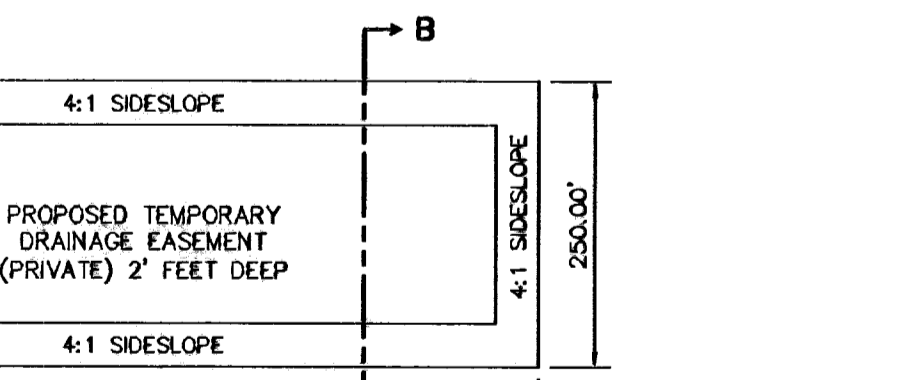
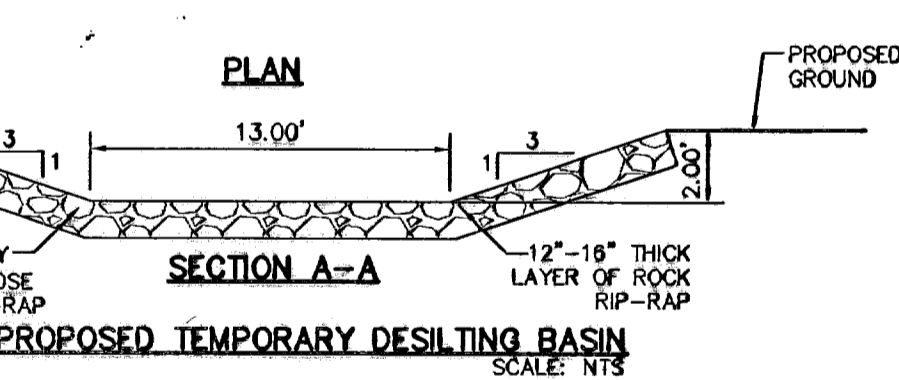
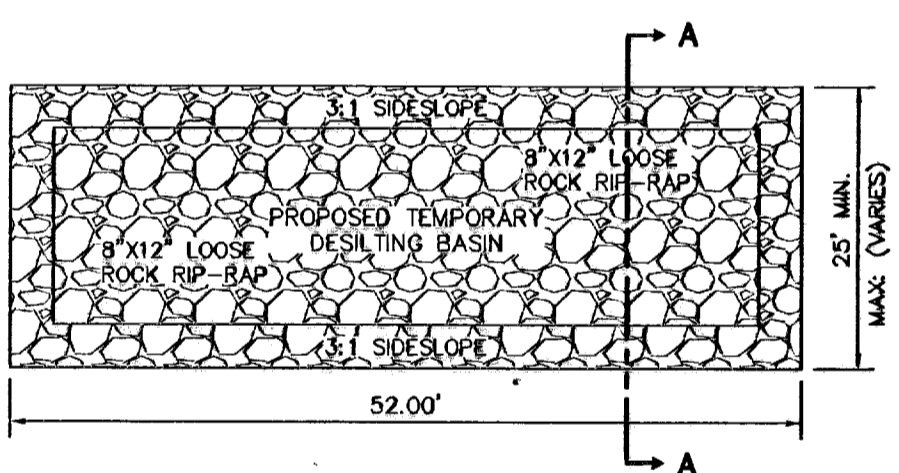
FOR FIELD LOCATING EXISTING UTILITIES

- LEGEND:**
- ○ ○ ○ ○ NEW RETAINING ROCKWALL (2'-3" IN HEIGHT)
  - □ □ □ □ NEW RETAINING ROCKWALL (3'-9" IN HEIGHT)
  - — — — — EXISTING MINOR CONTOUR
  - — — — — EXISTING MAJOR CONTOUR
  - — — — — PROPOSED MINOR CONTOUR
  - — — — — PROPOSED MAJOR CONTOUR

- NOTES:**
- RETAINING WALLS SHALL BE CONSTRUCTED FOR VERTICAL GRADES GREATER THAN 2'-FEET.
  - SLOPED AREAS WITHIN RESIDENTIAL LOTS SHALL BE MAINTAINED BY THE PROPERTY OWNERS.
  - DEVELOPER SHALL BE RESPONSIBLE FOR THE CONSTRUCTION OF ALL PERIMETER ROCKWALL/RETAINING WALL ALONG THE PONDING AREA. ROCKWALL/RETAINING WALL SHALL BE A MINIMUM OF 6 FEET HIGH FROM THE HIGHER GROUND ELEVATION.
  - ALL RETAINING WALLS NOT SPECIFIED TO BE CONSTRUCTED BY DEVELOPER, SHALL BE BUILT BY BUILDER.
  - DEVELOPER SHALL COMPLY WITH SECTION 13.08.170 (EXCESSIVE PAVING CUTS) OF THE EL PASO MUNICIPAL CODE.
  - IMPROVEMENTS SHALL NOT BE PLACED ON SIDEWALK (NDBOU'S, SIGNS, POLES, FIRE HYDRANTS, ETC.)
  - IMPROVEMENTS SHALL COMPLY WITH T.A.S./A.D.A. STANDARDS
  - BUILDER SHALL CONSTRUCT SIDEWALK ON DOUBLE FRONTAGE LOTS AT TIME OF BUILDING CONSTRUCTION.

**FLOOD ZONE:**  
THIS SUBDIVISION LIES WITH IN ZONE "X" AS DESIGNATED IN PANEL NO. 480212 0175 B, DATED SEPTEMBER 4, 1991, OF THE FLOOD INSURANCE RATE MAPS, EL PASO COUNTY, TEXAS. ZONE "X" INDICATES AREAS DETERMINED TO BE OUTSIDE 500-YEAR FLOODPLAIN.

**BENCHMARK:**  
CITY MONUMENT AT POINT OF CURVE CENTERLINE RICH BEEM BLVD., S08°43'31" E A DISTANCE OF 467.58 FEET FROM THE SOUTHERLY RIGHT OF WAY LINE OF MONTANA AVENUE CITY DATUM ELEVATION.....4005.40

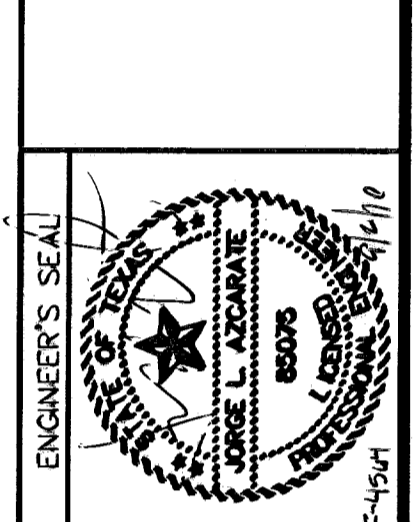


**REFERENCES - BENCHMARKS**

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DATE	REVISIONS	BY

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4712 Montoya Blvd., Suite 100  
El Paso, TX 79907  
Office: 915.544.5232 Fax: 915.544.5233 www.osaeng.com



**PROJECT TITLE**  
TRES SUEÑOS UNIT SIX  
SUBDIVISION IMPROVEMENTS

**SHEET TITLE**  
GRADING PLAN

**SHEET NO.**  
4

**DATE:** MARCH 2008  
**DESIGN BY:** J.G.  
**DRAWN BY:** D.N.  
**CHKD. BY:** J.L.A.  
**APP'D. BY:** J.L.A.  
**JOB NO.:** 2008-100-1D

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**GRADING PLAN**  
SCALE: 1" = 100'

**NOTES:**  
DRIVEWAY SLOPES MUST BE 10% MAX SLOPE FROM GUTTER FOR THE FIRST 12 FEET, 14% MAX. THEREAFTER.

**TYPICAL LOT DETAIL**  
SCALE: NTS

**TYPICAL LOT PLAN**  
SCALE: 1" = 30'

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**NOTES:**  
1. THE PROPOSED STORM SEWER SYSTEM IS SIZED TO RETAIN THE FUTURE DEVELOPED RUNOFF DRAINAGE AREAS AS INDICATED.

- LEGEND:**
- DRAINAGE AREA BOUNDARY
  - DRAINAGE FLOW
  - ▲ HIGH POINT
  - ▼ LOW POINT
  - ⊕ DROP INLET
  - ⊙ STORM DRAIN MANHOLE
  - RCP
  - ⊞ THRUST BLOCK STRUCTURE

**DA-6 DRAINAGE AREA**  
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**DRAINAGE PLAN**  
SCALE: 1" = 100'

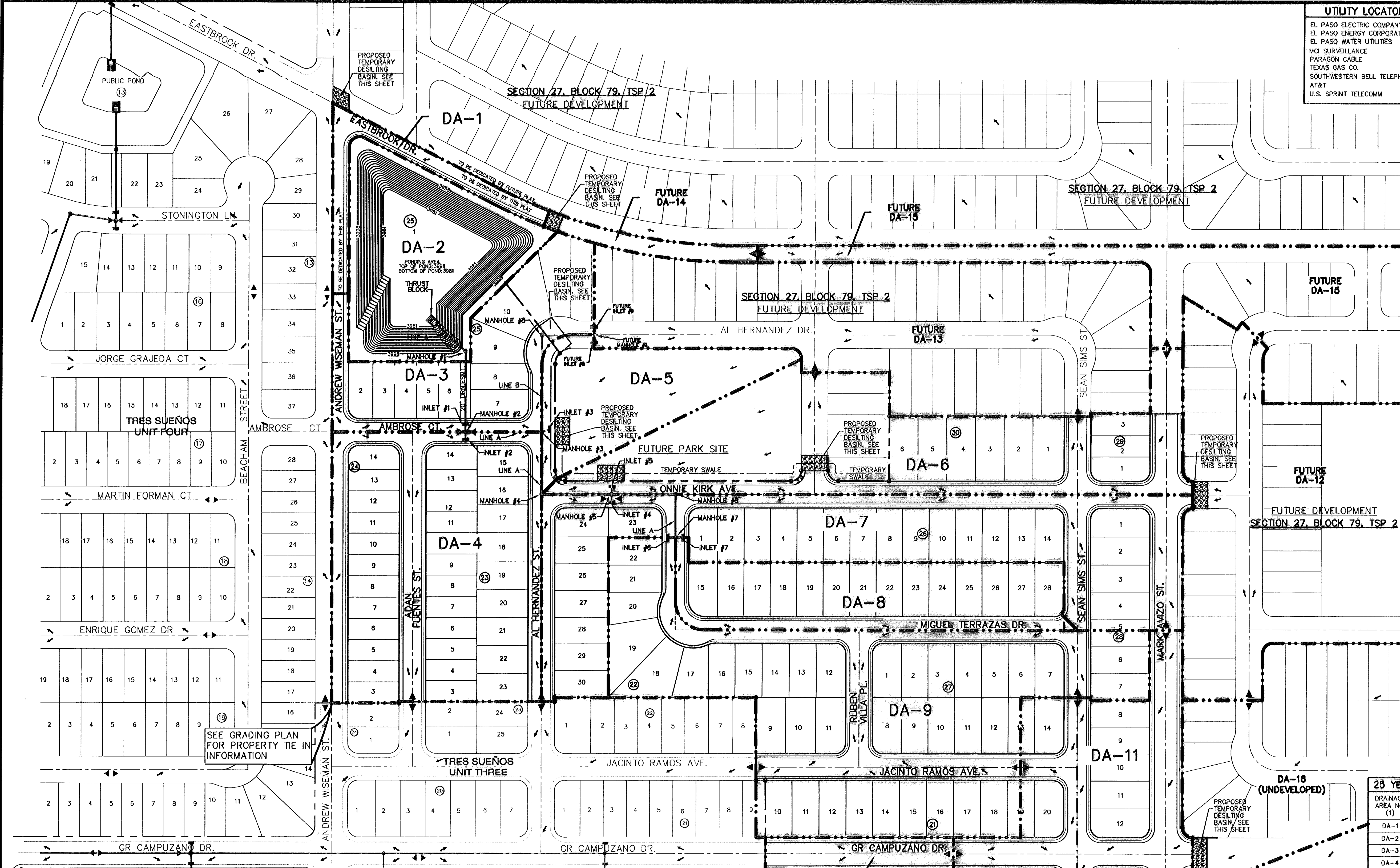
DROP INLETS					
NO.	REQ. FLOW CAPACITY Q REQ (CFS)	AVAIL. FLOW CAPACITY Q AVAIL. (CFS)	ADDITIONAL FLOW (CFS)	FLOW BYPASS RATES (CFS)	# OF TYPE OF INLET
1	4.53	19.63	0	0	2 1
2	10.35	19.63	0	0	2 1
3	2.08	19.63	0	0	2 1
4	13.195	19.63	0	0	2 1
5	13.195	19.63	0	0	2 1
6	13.93	19.63	0	2.99	2 1
7	4.53	19.63	2.99	0	2 1
8	11.64*	19.63	0	0	2 1
9	11.64*	19.63	0	0	2 1

\* FUTURE INLETS, NOT PART OF SUBDIVISION IMPROVEMENT PLANS

25 YEAR STORM CALCULATIONS FOR WATERSHED AREAS					
DRAINAGE AREA NO. (1)	DRAINAGE AREA (AC) (2)	DESIGN STORM INTENSITY (25) (3)	TIME OF CONCENTRATION (4)	RUNOFF COEFF. (5)	Q <sub>25</sub> (CFS) (6)
DA-1	0.59	4.43	10.00	0.90	2.35
DA-2	2.58	4.43	10.00	0.33	3.77
DA-3	2.32	2.91	24.25	0.68	4.59
DA-4	4.92	3.05	22.25	0.69	10.35
DA-5	1.71	2.62	29.00	0.48	2.06
DA-6	4.75	2.87	24.88	0.64	8.72
DA-7	5.09	2.78	28.25	0.70	9.91
DA-8	2.30	2.98	23.23	0.87	4.59
DA-9	6.96	2.90	24.39	0.69	13.93
DA-10	0.54	4.43	10.00	0.90	2.15
DA-11	2.89	3.00	23.00	0.75	6.50
DA-12*	5.86	2.17	39.20	0.61	7.76
DA-13*	5.93	2.77	26.34	0.68	11.17
DA-14*	0.31	4.43	10.00	0.90	1.24
DA-15*	7.08	2.41	33.35	0.71	12.11
DA-16	5.84	2.62	29.00	0.33	5.05

\* FUTURE WATERSHED CONTRIBUTIONS (OFF-SITE), NOT PART OF SUBDIVISION IMPROVEMENT PLANS  
REFERENCE: CITY OF EL PASO SUBDIVISION STANDARDS (3-11-97)

- WATERSHED AREA IDENTIFICATION
- AREA FROM DRAINAGE PLAN
- RAINFALL INTENSITY, 25 YEAR STORM => PLATE NO. 2-14
- TIME OF CONCENTRATION: TC = T (OVERLAND) + T (GUTTER)
- RUNOFF COEFFICIENT => sq. ft. NO. 2-10 TABLE A  
RESIDENTIAL (LOTS) < 6,000 sq.ft. = 0.60  
PAVEMENT AREA = 0.90  
UNDEVELOPED AREA = 0.33  
PARK AREA = 0.40  
COMMERCIAL AREA = 0.85
- Q<sub>25</sub> = C X A X T



SEE GRADING PLAN FOR PROPERTY TIE INFORMATION

**NEW POND CALCULATIONS**  
 $QT = (ARO)/12$   
 $QT = 10.73$   
 $A = 49.50$   
 $R = 4"$   
 $C = 0.65$   
 $QT \times 25\% = 2.68$   
 $10.73 + 2.68 = 13.41$   
 SILT VOLUME = 0.59  
 $0.012 \text{ AC-FI/AC}$   
 $13.41 + 0.59 = 14.00 \text{ AC-FI}$   
**TOTAL REQ = 14.00 AC-FI**

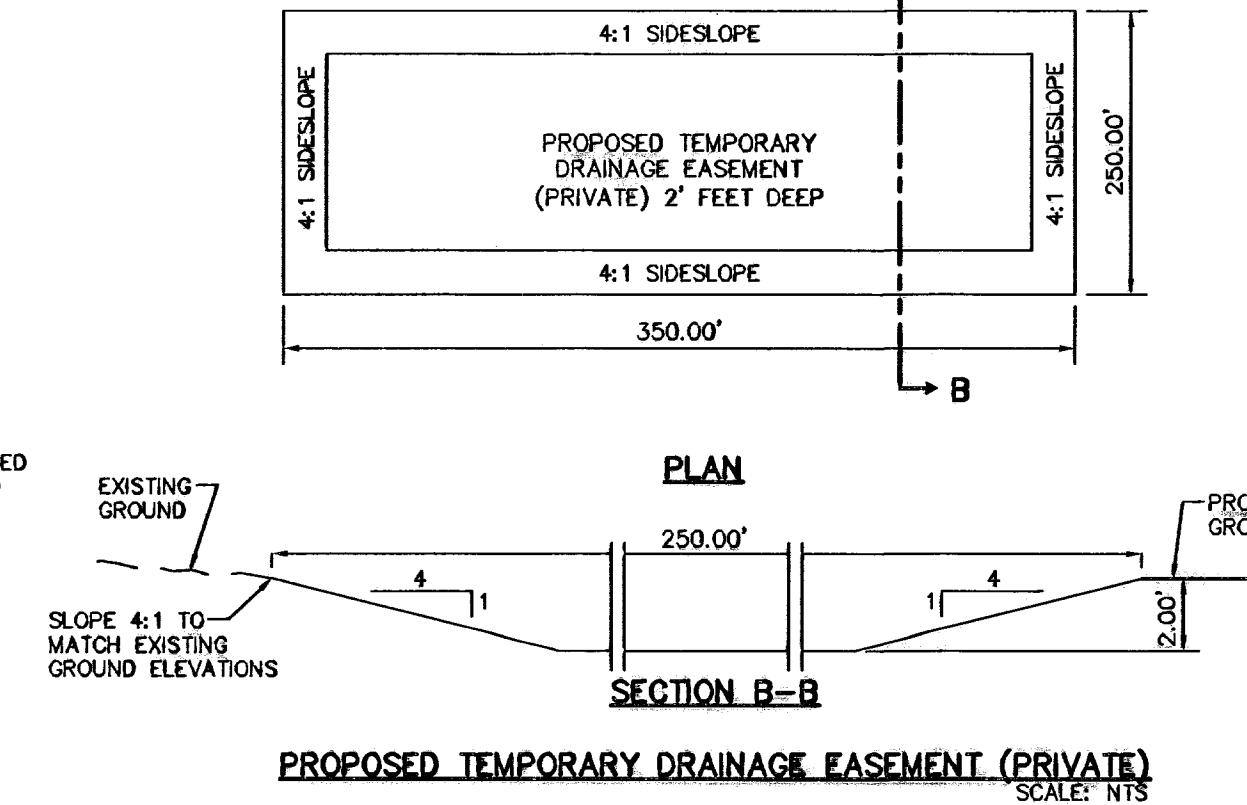
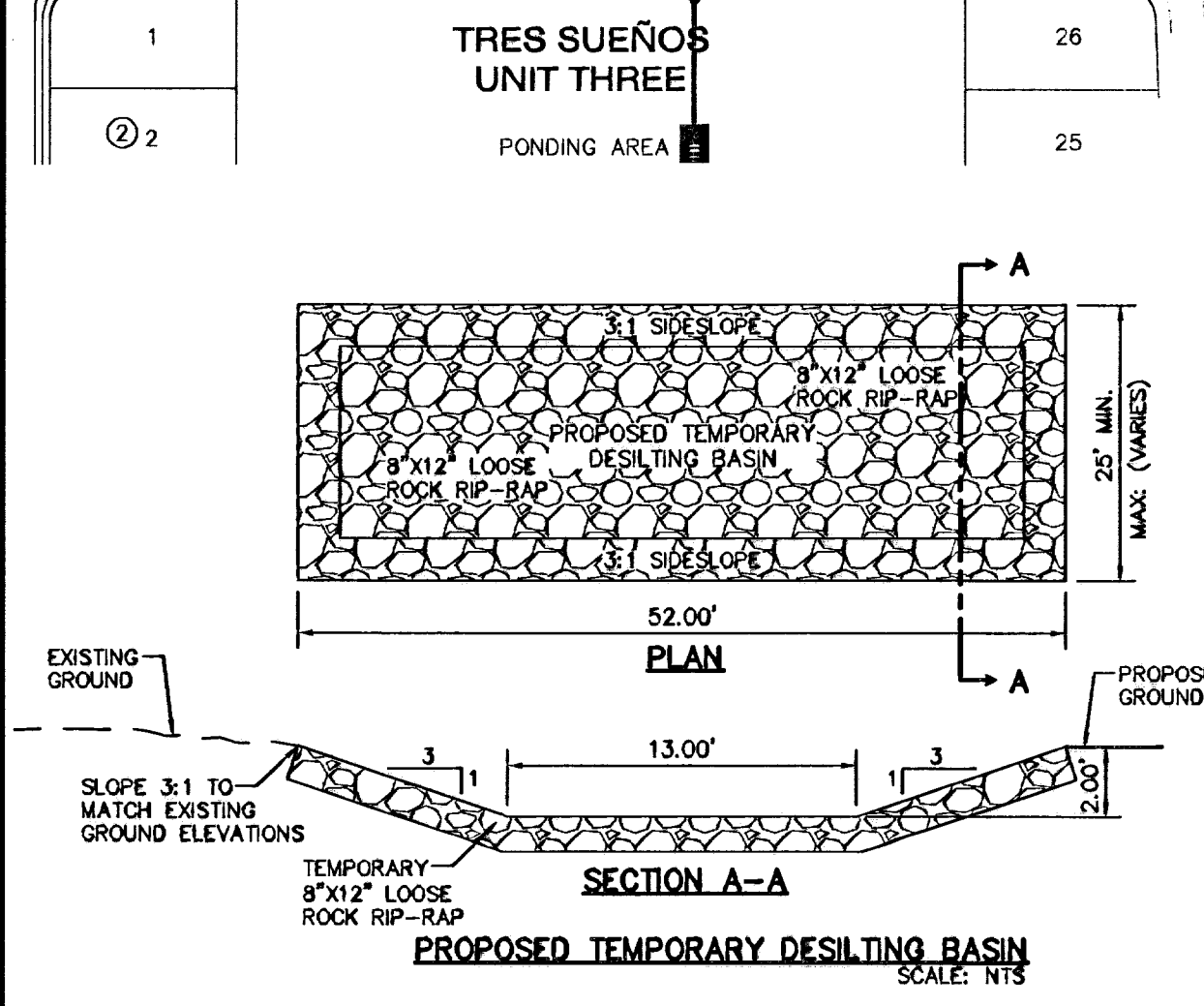
**NOTES:**  
 (1) THE HWSE REFLECTS THE ELEVATION AS REQUIRED BY THE CITY OF EL PASO. THE HWSE DOES NOT INCLUDE 25% FREEBOARD. HOWEVER, THE TOTAL POND CAPACITY SHALL HOLD TOTAL REQUIRED STORM WATER RUNOFF.  
 $HWSE = QT + \text{SILT VOLUME}$   
 $HWSE = 10.73 + 0.59 = 11.32 \text{ AC-FI}$   
 CONTOUR 3992, ACCUMULATED VOLUME = 12.60 AC-FI  
 CONTOUR 3991, ACCUMULATED VOLUME = 11.10 AC-FI  
 HIGH WATER SURFACE ELEVATION = 3991.15  
 (2) TOTAL STORAGE INCLUDING 25% EMERGENCY (REFERENCE ONLY)  
 $HWSE = QT + \text{SILT VOLUME} + 25\% \text{ EMERGENCY}$   
 $HWSE = 10.73 + 0.59 + 2.68 = 14.00 \text{ AC-FI}$   
 CONTOUR 3993, ACCUMULATED VOLUME = 14.18 AC-FI  
 CONTOUR 3992, ACCUMULATED VOLUME = 12.60 AC-FI  
 HIGH WATER SURFACE ELEVATION = 3992.69

CONTOUR	ACCUMULATED VOLUME (AC-FI)
3998	23.33
3997	21.32
3996	19.41
3995	17.59
3994	15.84
3993	14.18
3992	12.60
3991	11.10
3990	9.68
3989	8.33
3988	7.05
3987	5.84
3986	4.71
3985	3.64
3984	2.63
3983	1.69
3982	0.81
3981	0.00

MOMENTUM COMPUTATION			
LOCATION INLET (1)	DEPTH (2) FT	VELOCITY (3) FPS	PRODUCT NUMBER (4) FT <sup>2</sup> /S
1	0.26	2.24	0.58
2	0.35	2.74	0.95
3	0.14	3.15	0.44
4	0.37	3.09	1.14
5	0.37	3.09	1.14
6	0.39	2.95	1.15
7	0.31	2.54	0.78
8*	0.37	2.73	1.01
9*	0.37	2.73	1.01

\* FUTURE INLETS, NOT PART OF SUBDIVISION IMPROVEMENT PLANS

NEW POND CALCULATIONS						
Basin No.	REQUIRED CAPACITY (AC-FI)	AVAILABLE CAPACITY (AC-FI)	PEAK INFLOW (GFS)	OUTLET TOWER FLOW (GFS)	HIGH WATER SURFACE ELEV. (FT.)	BOTTOM ELEVATION (FT.)
1	(1) 11.32 (2) 14.00	23.33	88.96	0	(1) 3991.15 (2) 3992.89	3991.00



REFERENCES - BENCHMARKS  
 CITY MONUMENT AT POINT OF CURVE  
 MONUMENT RICH BEEM BLVD. S0843731 E A  
 DISTANCE OF 487.58 FEET FROM THE  
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 ELEVATION.....4005.40

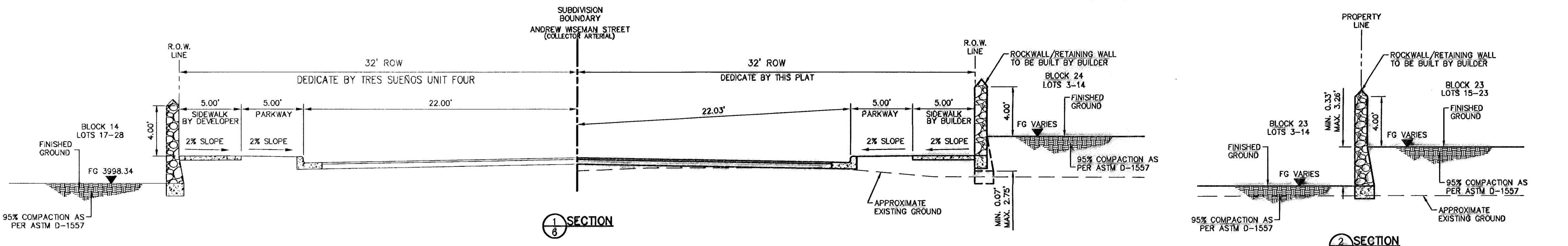
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 Office: 915.544.5222 Fax: 915.544.5223 www.osagroup.com

ENGINEER'S SEAL  
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 Vertical: N/A  
 Contour Interval: \_\_\_\_\_  
 DATE: MARCH 2009  
 DESIGN BY: J.G.  
 DRAWN BY: J.G.  
 CHKD. BY: J.L.A.  
 APPVD. BY: J.L.A.  
 JOB NO.: 2008-103 LD

**TRES SUEÑOS UNIT SIX**  
**SUBDIVISION IMPROVEMENTS**

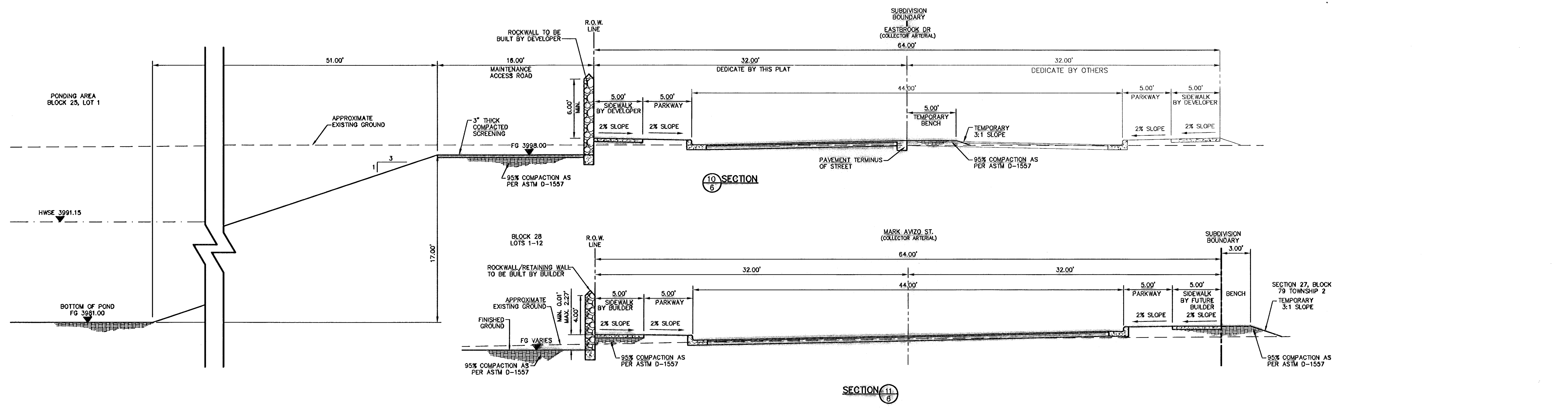
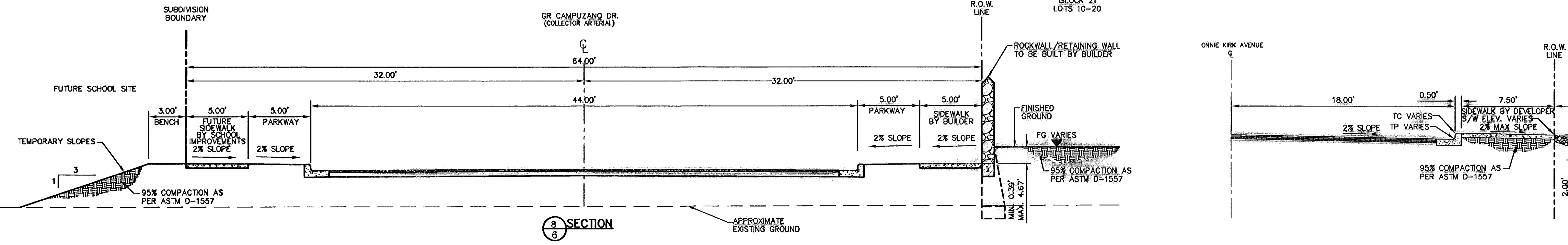
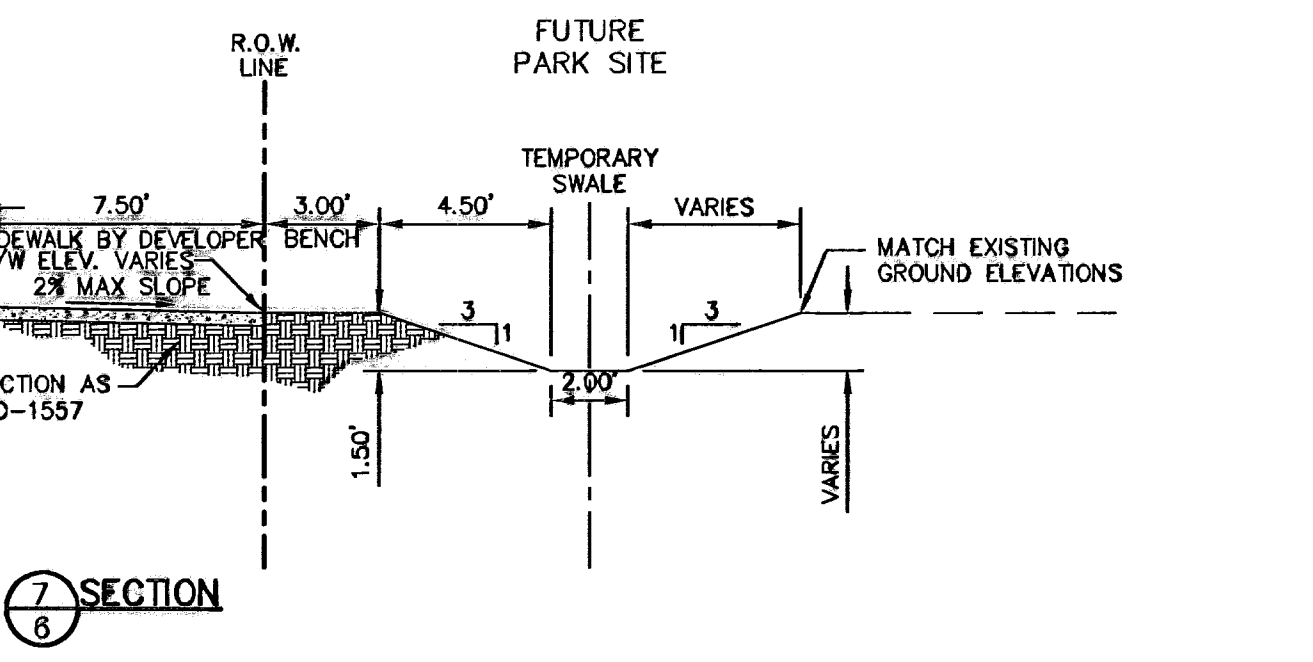
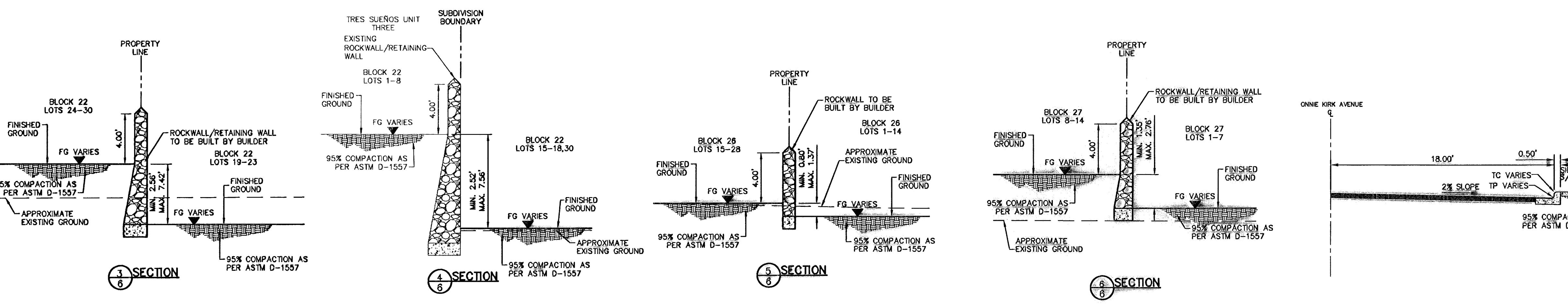
PROJECT TITLE  
 SHEET TITLE  
 DRAINAGE PLAN  
 SHEET NO.  
 5  
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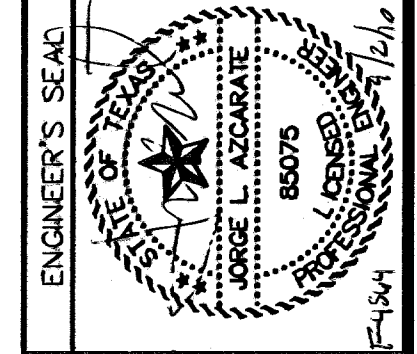
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DATE	REVISIONS	BY

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 Dallas, TX 75241  
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 Fax: (972) 412-1235  
 www.osagroup.com



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 Contour Interval: N/A  
 DATE: MARCH 2009  
 DESIGN BY: J.G.  
 DRAWN BY: D.N.  
 CHKD. BY: J.L.A.  
 APPVD. BY: J.L.A.  
 JOB NO.: 20000-100.LD

**PROJECT TITLE**  
**TRES SUEÑOS UNIT SIX**  
**SUBDIVISION IMPROVEMENTS**

**SHEET TITLE**  
**GRADING SECTIONS**  
 (SHEET 1 OF 2)  
**SHEET NO.**  
**6**

OF 36

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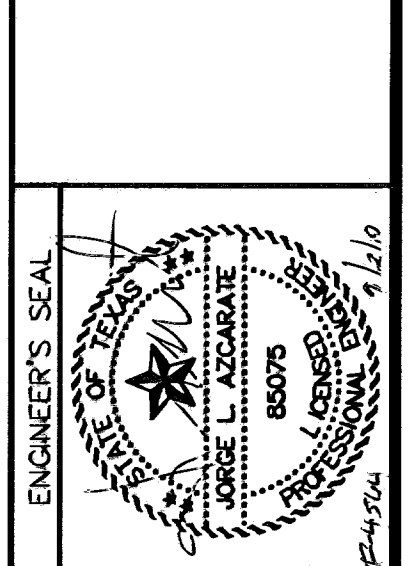
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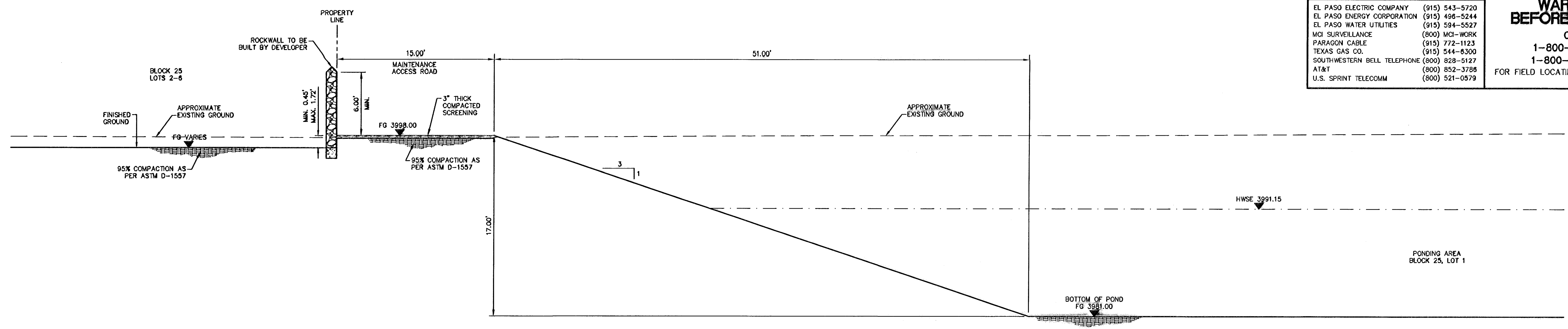


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DESIGN BY: D.N.  
CHECK BY: J.L.A.  
APPROV. BY: J.L.A.  
JOB No. 2000-100.LD

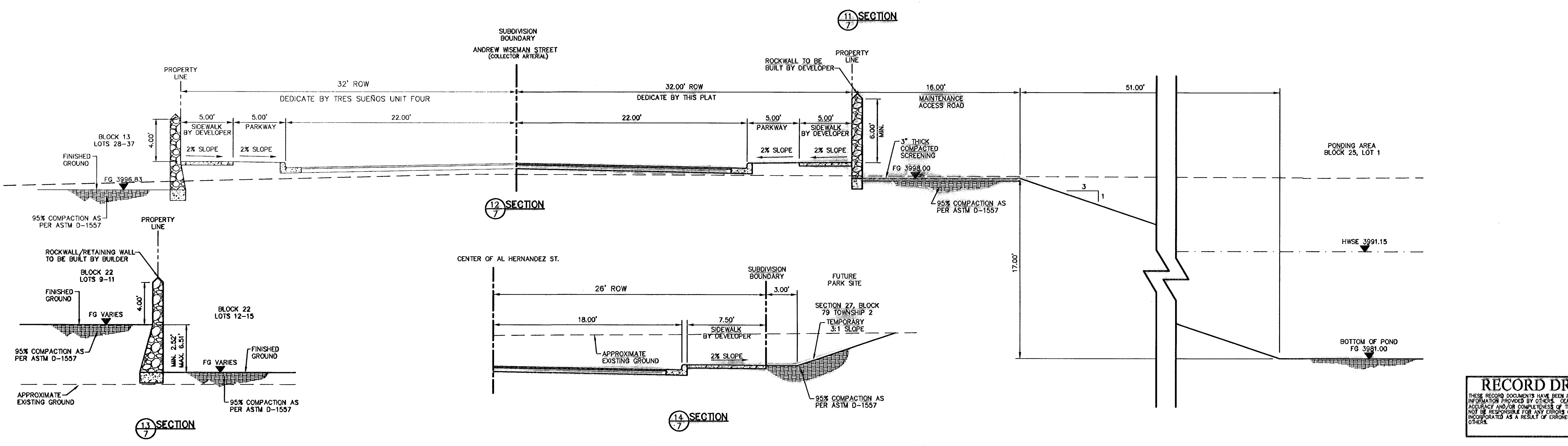
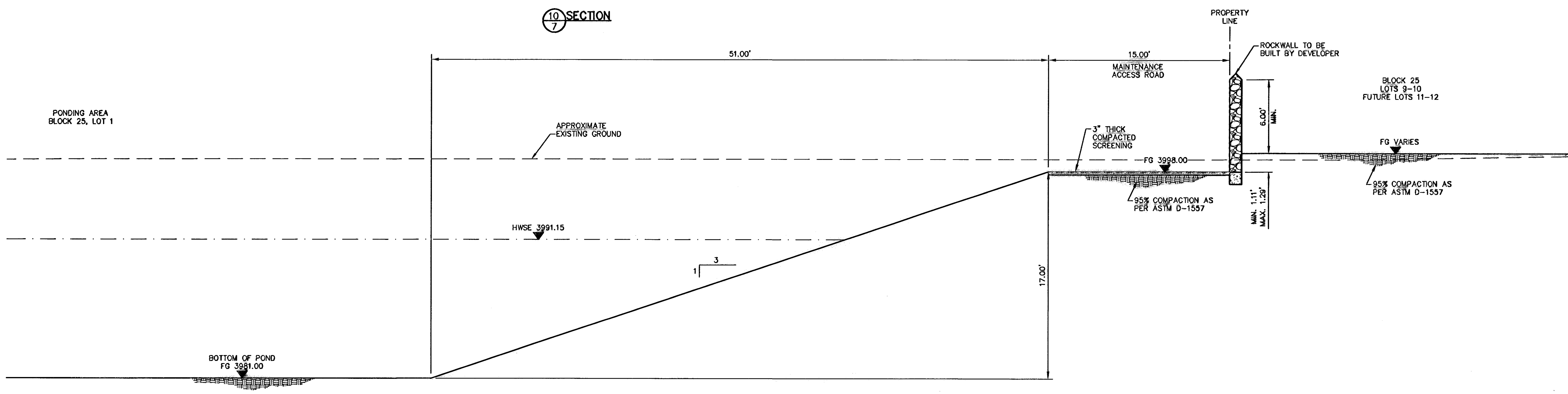
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**SUBDIVISION IMPROVEMENTS**

SHEET TITLE  
**GRADING SECTIONS**  
(SHEET 2 OF 2)  
SHEET NO.  
**7**  
OF 36

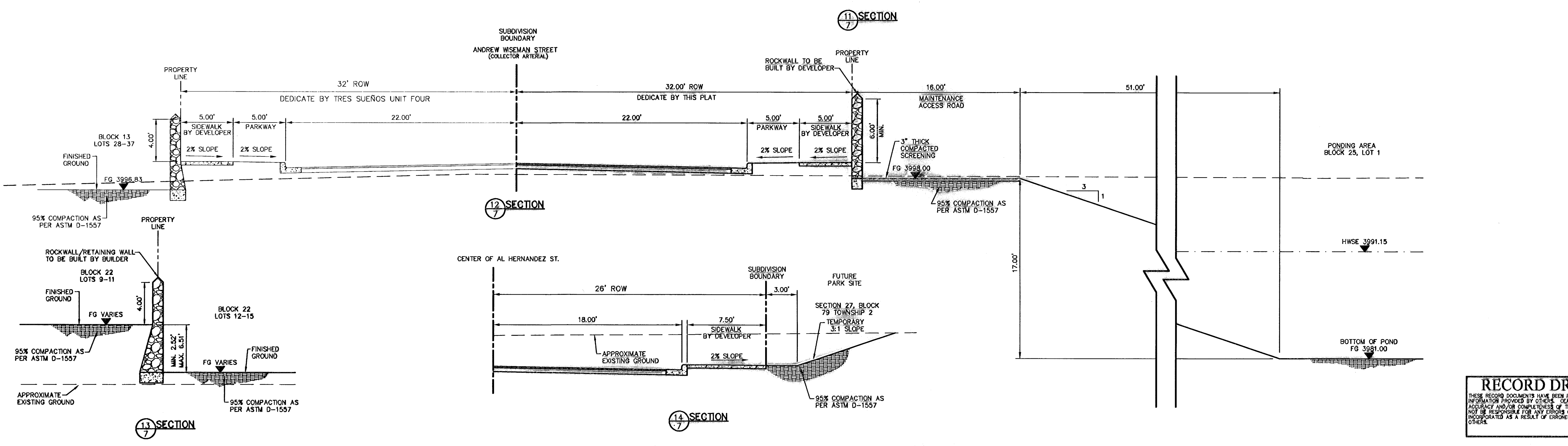
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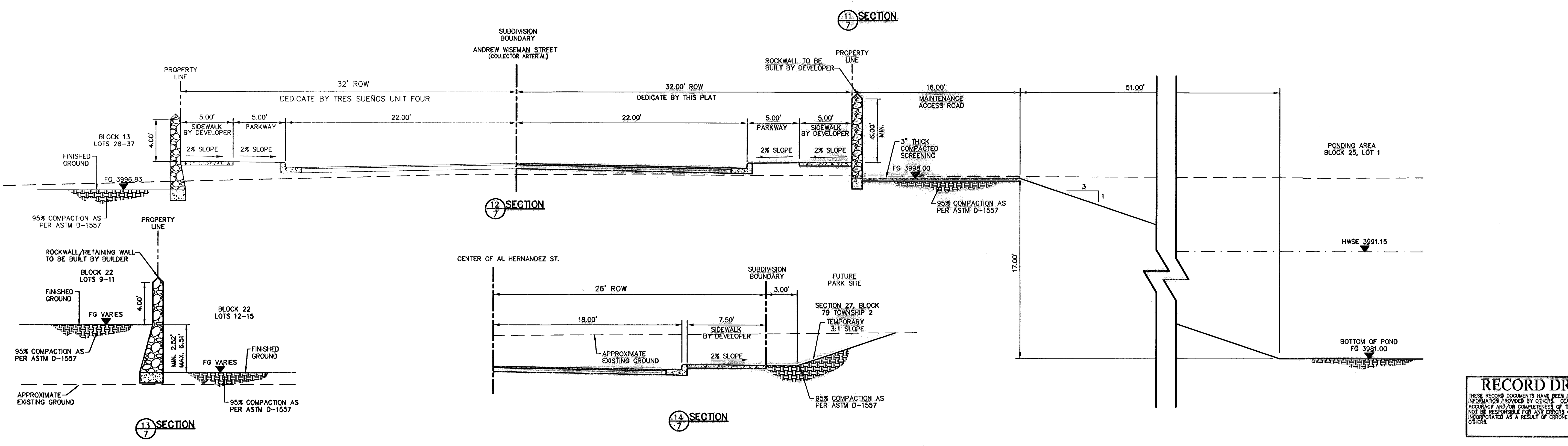
10 SECTION



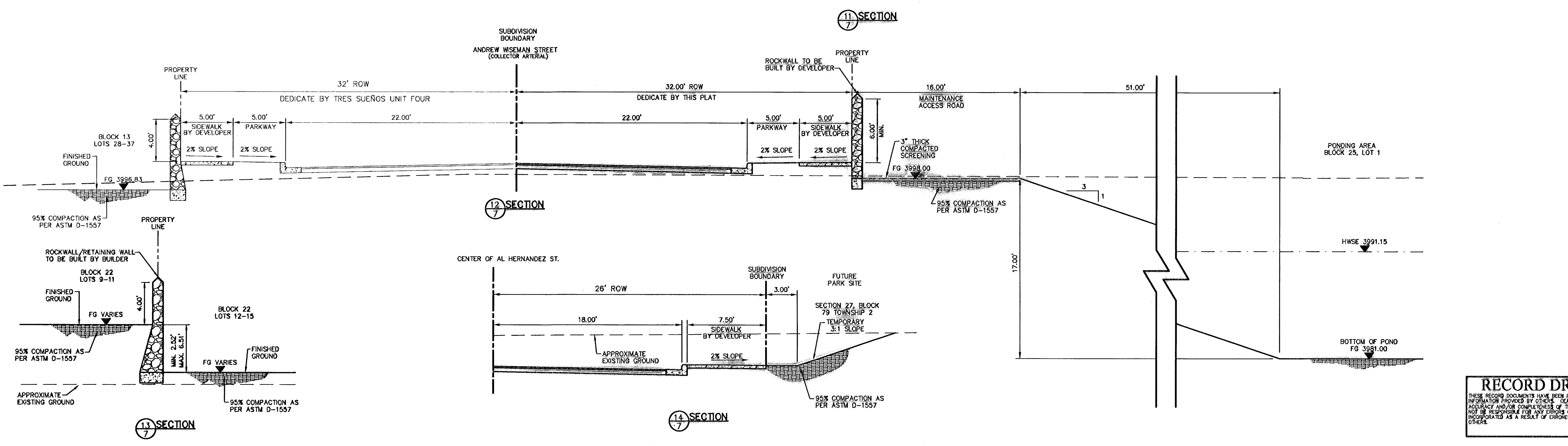
11 SECTION



12 SECTION



13 SECTION



14 SECTION



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11/03/10

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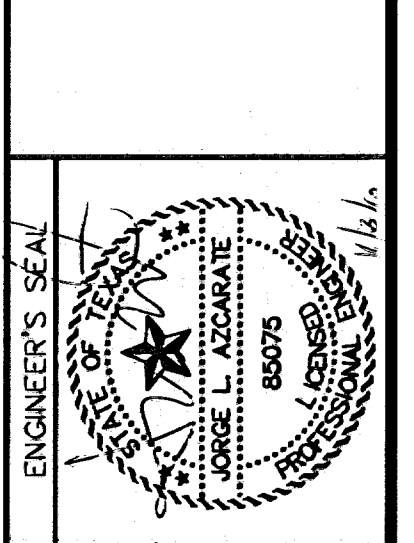
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DATE: \_\_\_\_\_ REVISIONS: \_\_\_\_\_ BY: \_\_\_\_\_

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SCALE:  
Horizontal: 1"=30'  
Vertical: 1"=5'  
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APP'D. BY: J.L.A.  
JOB No.: 2000-100 LD

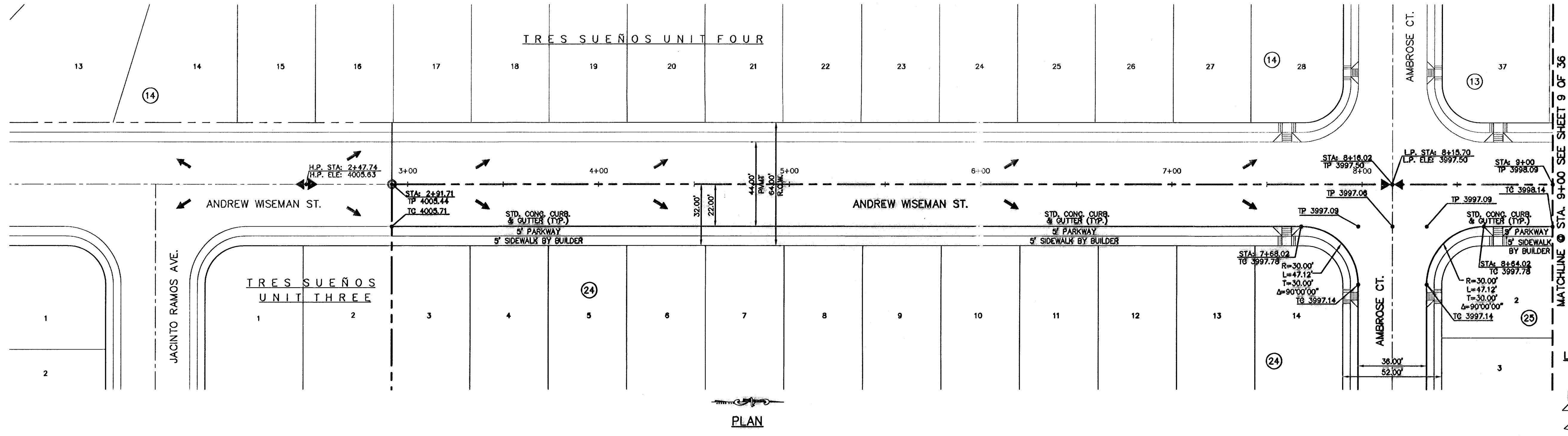
PROJECT TITLE  
**TRES SUEÑOS UNIT SIX  
SUBDIVISION IMPROVEMENTS**

SHEET TITLE

ANDREW WISEMAN ST.  
PLAN & PROFILE  
FROM STA. 2+91.71  
TO STA. 9+00

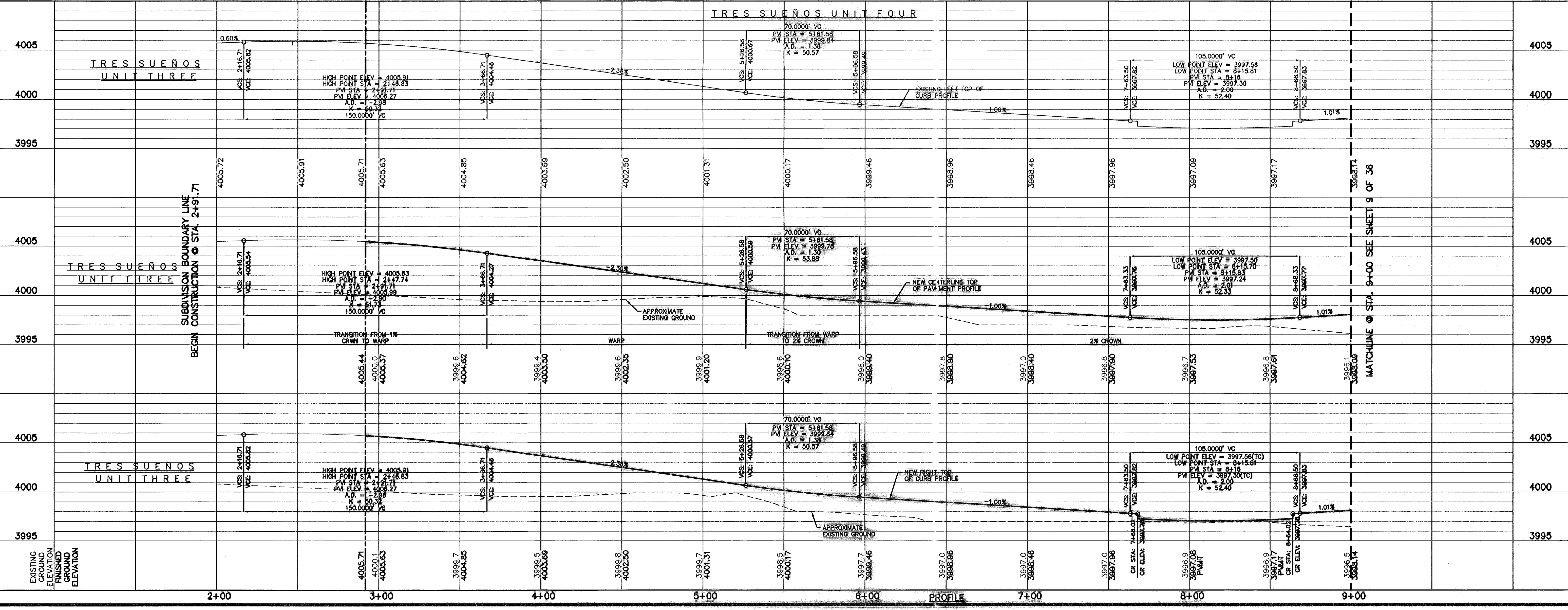
SHEET NO.

OF 36



**PLAN**

- LEGEND:**
- 5' x 5' WHEELCHAIR PASSING
  - DIRECTIONAL RAMP
  - WHEELCHAIR RAMP (TYP.)



**PROFILE**

**RECORD DRAWINGS**  
 THESE RECORD DOCUMENTS HAVE BEEN PREPARED BASED ON THE INFORMATION PROVIDED BY OTHERS. CEA GROUP HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION AND SHALL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS THAT MAY BE INCORPORATED AS A RESULT OF ERRONEOUS INFORMATION PROVIDED BY OTHERS.  
 11/03/10

**UTILITY LOCATOR SERVICES**

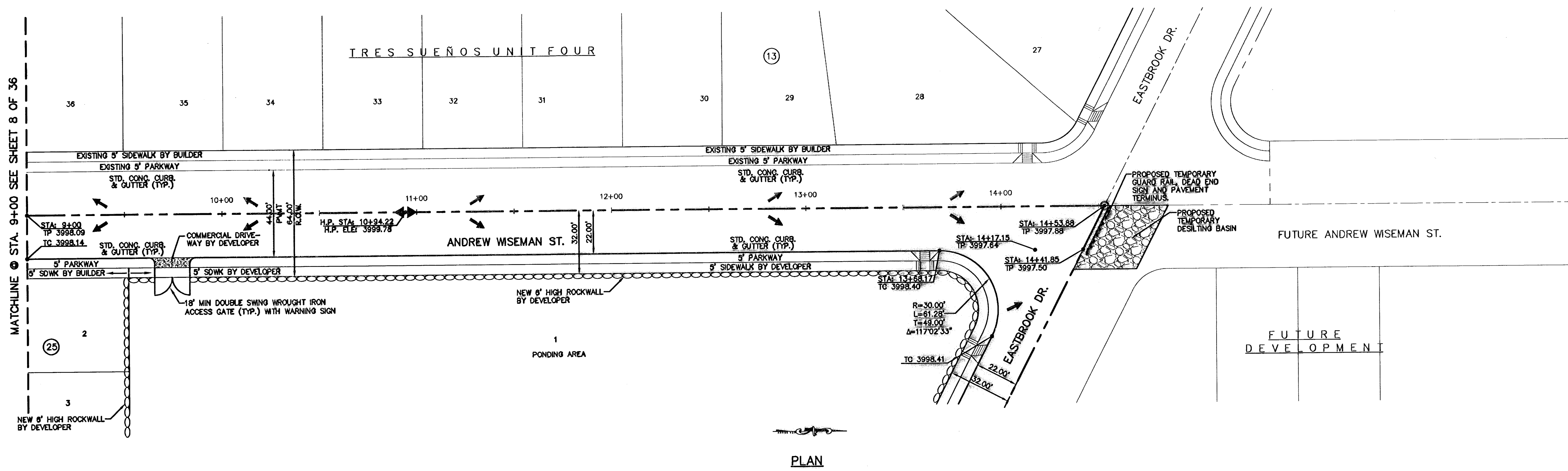
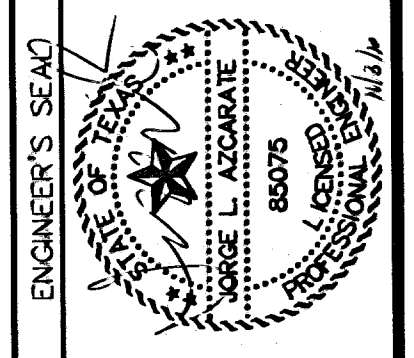
EL PASO ELECTRIC COMPANY	(915) 543-5720
EL PASO ENERGY CORPORATION	(915) 498-5244
EL PASO WATER UTILITIES	(915) 594-5527
MCI SURVEILLANCE	(800) MCI-WORK
PARAGON CABLE	(915) 772-1123
TEXAS GAS CO.	(915) 544-6300
SOUTHWESTERN BELL TELEPHONE	(800) 828-5127
AT&T	(800) 852-3788
U.S. SPRINT TELECOMM	(800) 521-0579

**WARNING!**  
**BEFORE YOU DIG**  
 CALL  
 1-800-DIG-TESS  
 1-800-344-8377  
 FOR FIELD LOCATING EXISTING UTILITIES

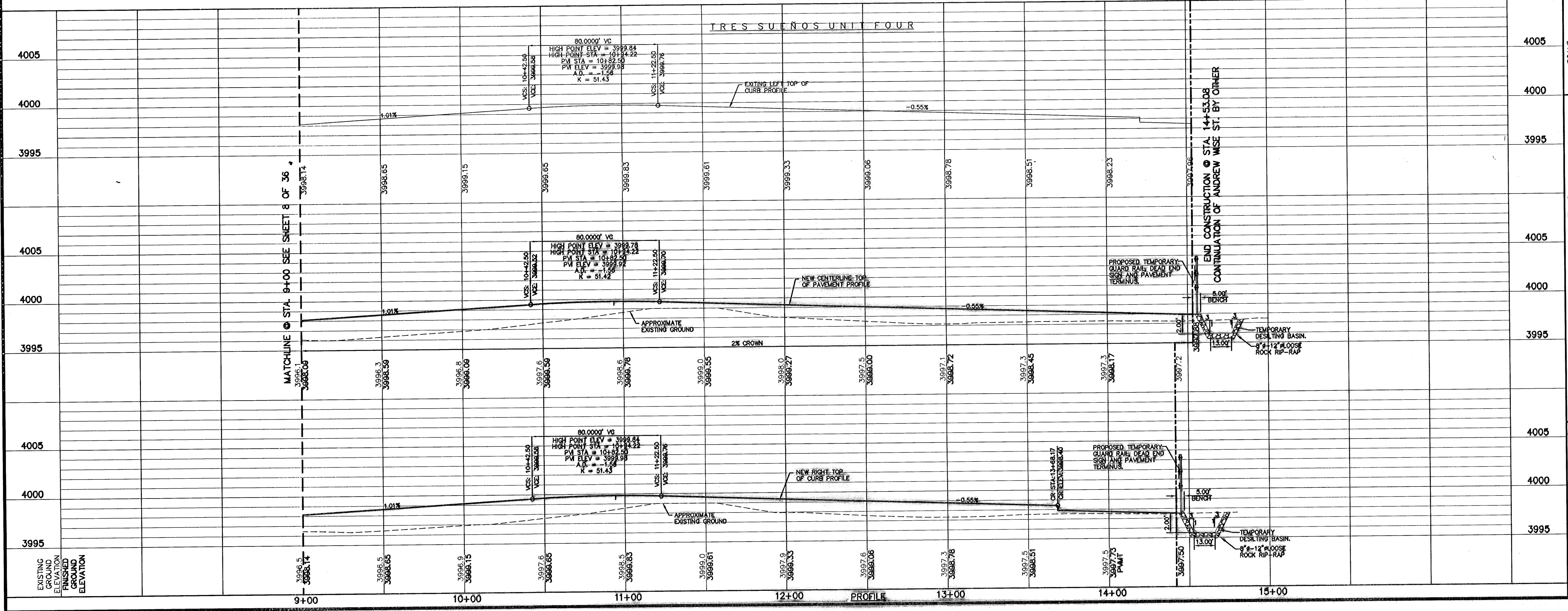
REFERENCES - BENCHMARKS

CITY MONUMENT AT POINT OF CURVE	SUBST. 31: E A
CENTERLINE RICH BEEM BLVD.	FILE NO. 111
DISTANCE TO RIGHT-OF-WAY LINE	FILE NO. 111
AVENUE CITY DATUM	FILE NO. 111
ELEVATION	4005.40
DATE	
REVISIONS	
BY	

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 Casador Center @ Transmountain  
 4712 Woodrow Blvd, Ste. F, El Paso, TX 79924  
 Office: 915.544.5222 Fax: 915.544.5225 www.ceagroup.com



**LEGEND:**  
 5' X 5' WHEELCHAIR PASSING  
 DIRECTIONAL RAMP  
 WHEELCHAIR RAMP (TYP.)



SCALE  
 Horizontal: 1"=30'  
 Vertical: 1"=5'  
 Contour Interval: N/A

DATE: MARCH 2009  
 DESIGN BY: J.C.  
 DRAWN BY: J.L.A.  
 APP'D. BY: J.L.A.  
 JOB No. 2008-100.LD

PROJECT TITLE  
**TRES SUEÑOS UNIT SIX  
 SUBDIVISION IMPROVEMENTS**

SHEET TITLE  
**ANDREW WSEMAN ST.  
 PLAN & PROFILE  
 FROM STA. 9+00  
 TO STA. 14+53.08**

SHEET NO.  
**9**

OF 36

**RECORD DRAWINGS**

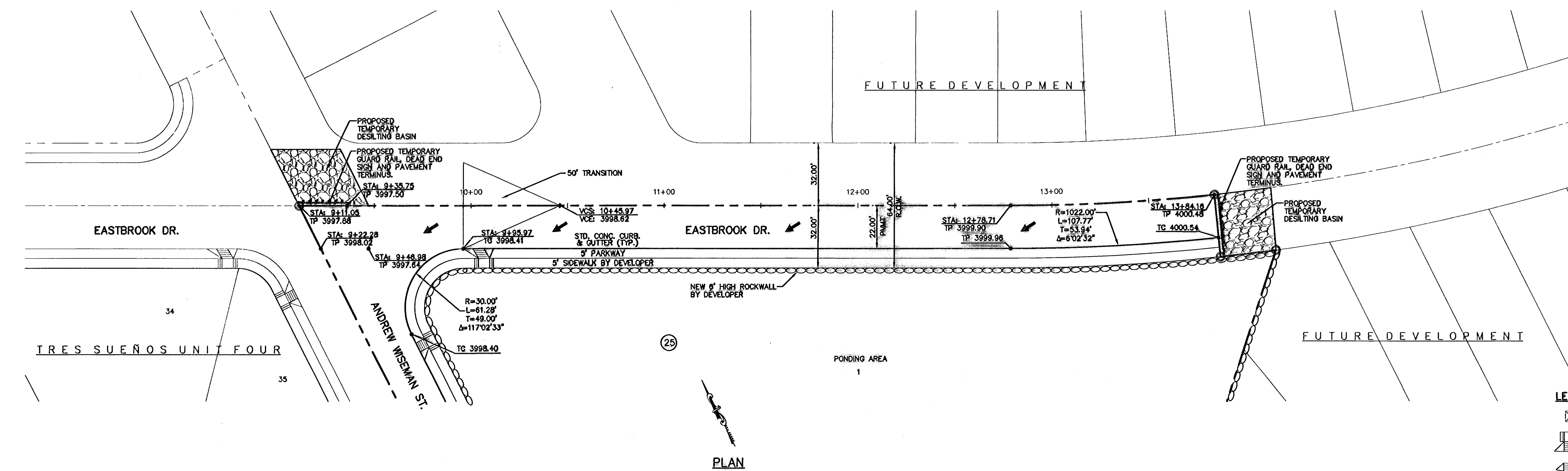
THESE RECORD DRAWINGS HAVE BEEN PREPARED BASED ON INFORMATION PROVIDED BY OTHERS. CEA GROUP HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION AND SHALL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS THAT MAY BE INCORPORATED AS A RESULT OF ERROREOUS INFORMATION PROVIDED BY OTHERS.

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UTILITY LOCATOR SERVICES	
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EL PASO ENERGY CORPORATION	(915) 498-5244
EL PASO WATER UTILITIES	(915) 594-5527
MCI SURVEILLANCE	(800) MCI-WORK
PARAGON CABLE	(915) 772-1123
TEXAS GAS CO.	(915) 544-6300
SOUTHWESTERN BELL TELEPHONE	(800) 828-5127
AT&T	(800) 852-3786
U.S. SPRINT TELECOMM	(800) 521-0579

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1-800-DIG-TESS  
1-800-344-8377  
FOR FIELD LOCATING EXISTING UTILITIES

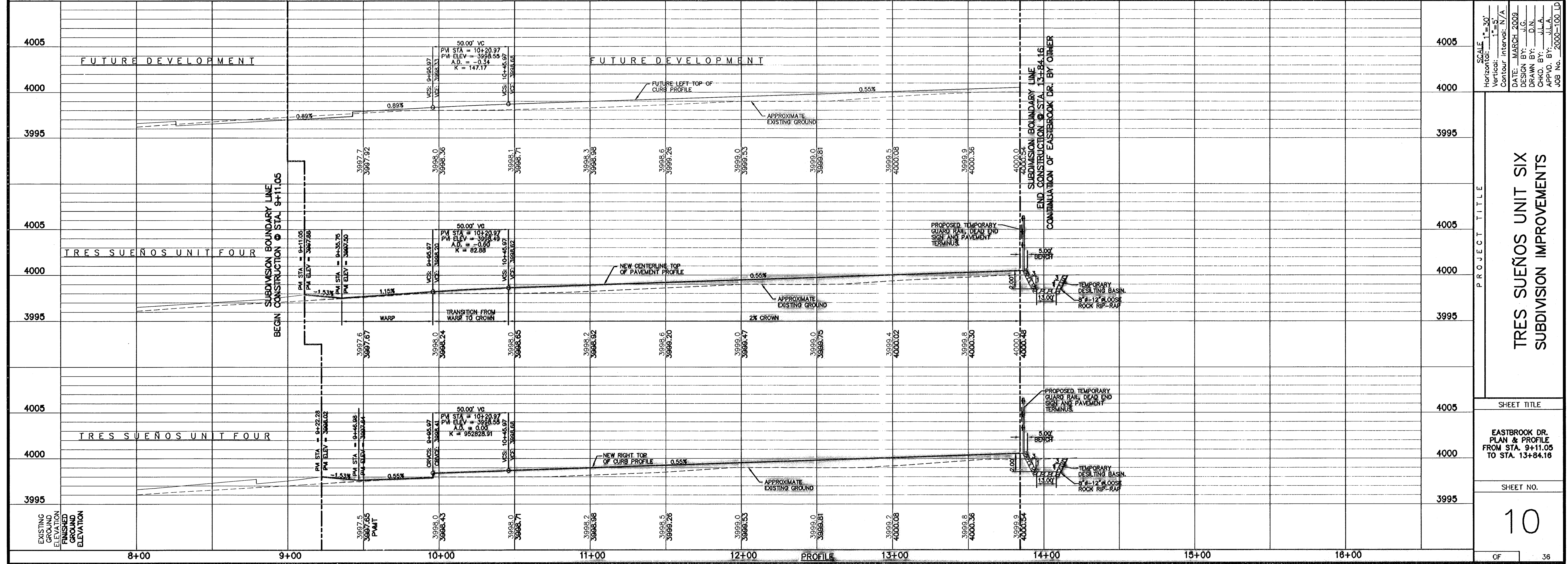
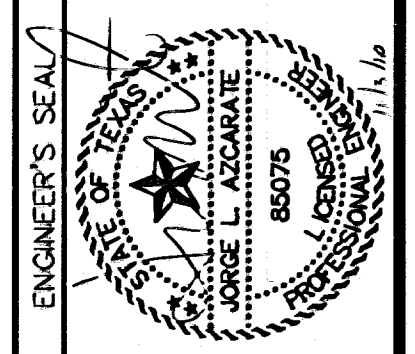
DATE	REVISIONS	BY



PLAN

**LEGEND:**

- 5' X 5' WHEELCHAIR PASSING
- DIRECTIONAL RAMP
- WHEELCHAIR RAMP (TYP.)



PROFILE

SCALE: Horizontal: 1"=50'  
Vertical: 1"=5'  
Contour Interval: N/A

DATE: MARCH 2009  
DESIGN BY: J.S.  
DRAWN BY: J.L.A.  
APP'D. BY: B.V.  
JOB No.: 2008-100.LD

PROJECT TITLE  
**TRES SUEÑOS UNIT SIX  
SUBDIVISION IMPROVEMENTS**

SHEET TITLE

**EASTBROOK DR.  
PLAN & PROFILE  
FROM STA. 9+11.05  
TO STA. 13+84.16**

SHEET NO.

**10**

**RECORD DRAWINGS**

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09/01/10

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EL PASO ENERGY CORPORATION	(915) 496-5244
EL PASO WATER UTILITIES	(915) 594-5527
MCI SURVEILLANCE	(800) MCI-WORK
PARAGON CABLE	(915) 772-1123
TEXAS GAS CO.	(915) 544-8300
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AT&T	(800) 852-3786
U.S. SPRINT TELECOMM	(800) 521-0579

**WARNING!**  
**BEFORE YOU DIG**

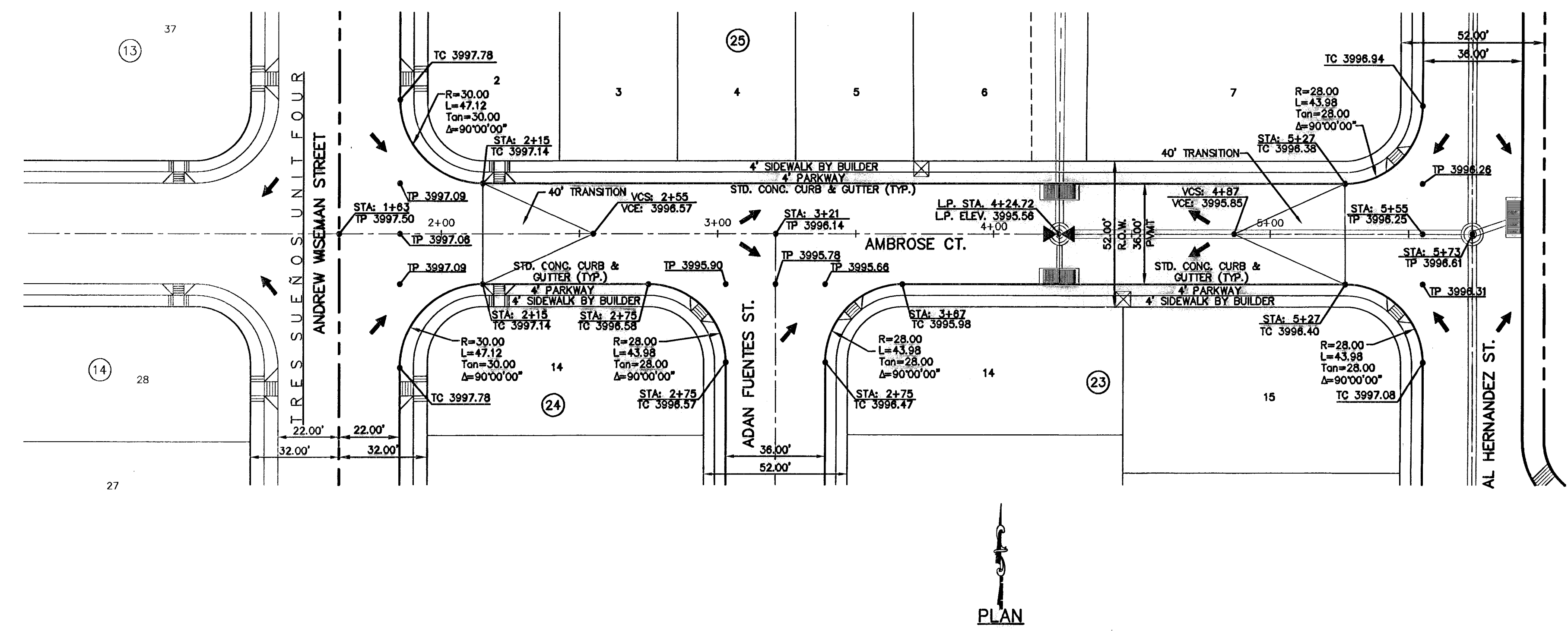
CALL  
1-800-DIG-TESS  
1-800-344-8377

FOR FIELD LOCATING EXISTING UTILITIES

DATE	REVISIONS	BY

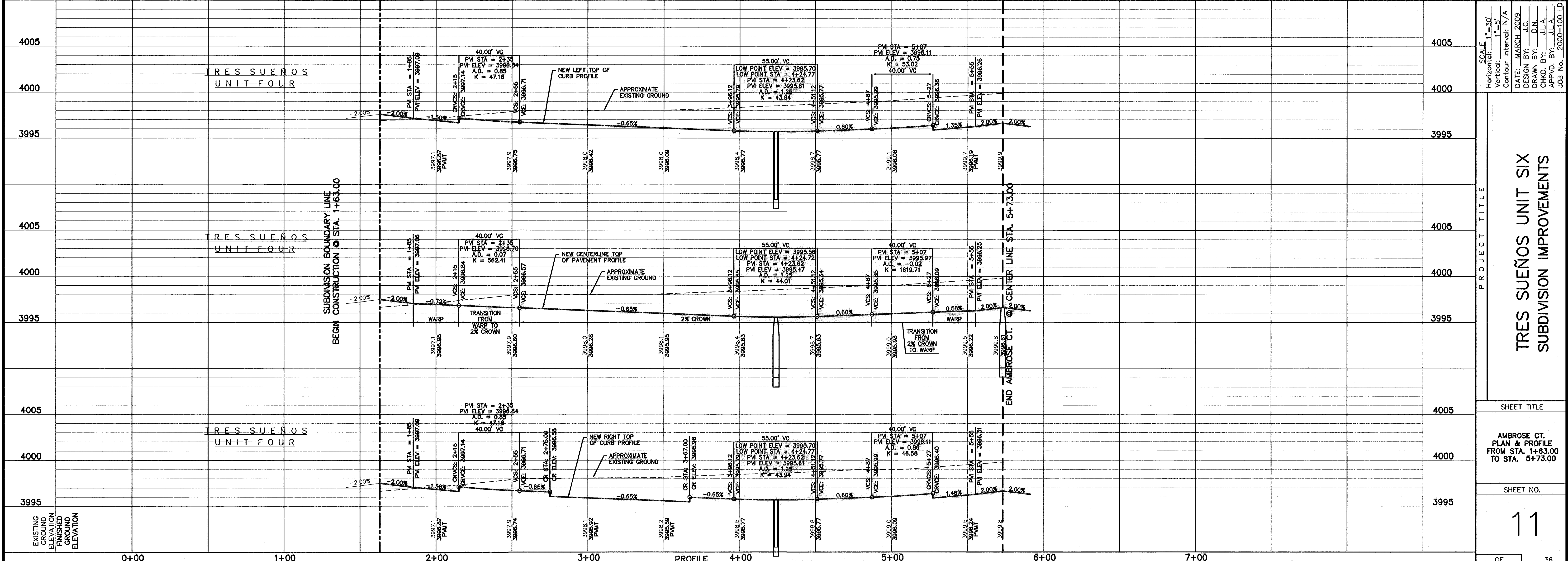
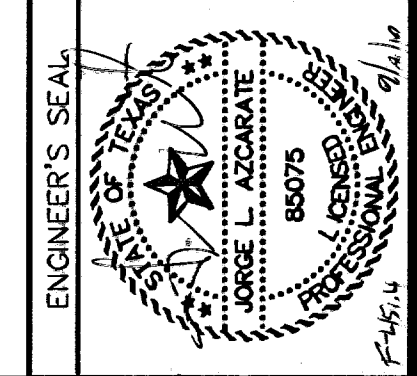
REFERENCES - BENCHMARKS  
CITY MONUMENT AT POINT OF CURVE  
DISTANCE TO CURVE: 55.00 FEET  
SOUTHERLY RIGHT OF WAY LINE OF MONTANA AVENUE CITY DATUM  
ELEVATION: 4005.40

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PLAN

- LEGEND:**
- 5' X 5' WHEELCHAIR PASSING
  - DIRECTIONAL RAMP
  - WHEELCHAIR RAMP (TYP.)



SCALE: 1"=30'  
Horizontal: 1"=50'  
Vertical: 1"=5'  
Contour Interval: 1' / 4"

DATE: MARCH 2009  
DESIGN BY: J.G.  
DRAWN BY: J.L.A.  
CHKD. BY: J.L.A.  
APPVD. BY: J.L.A.

JOB NO.: 2000-100

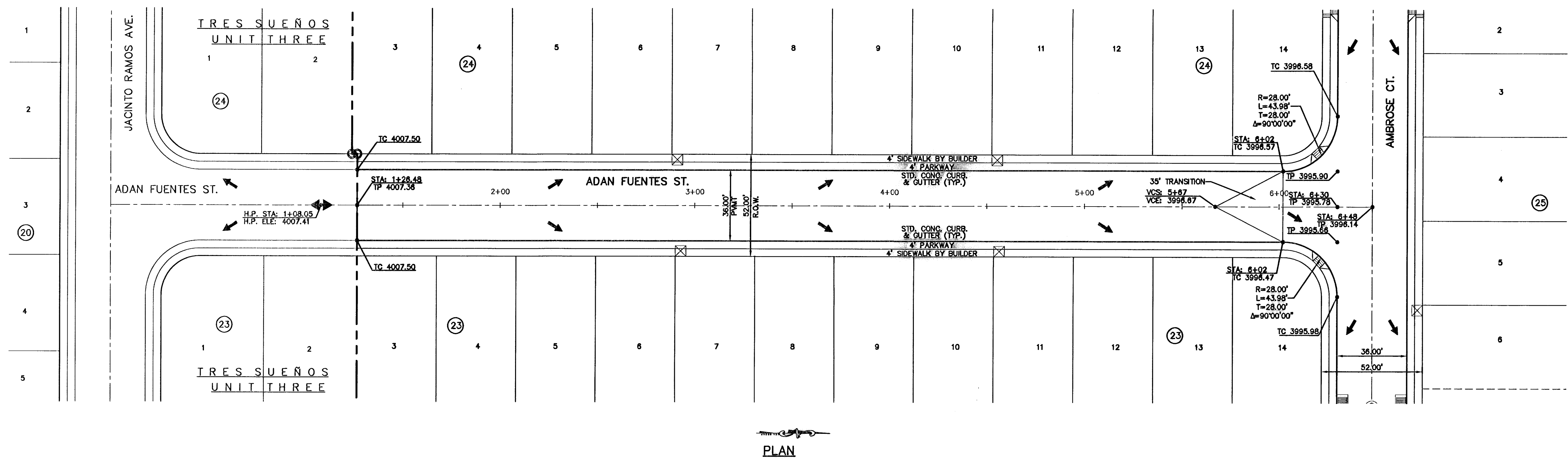
PROJECT TITLE	
TRES SUEÑOS UNIT SIX SUBDIVISION IMPROVEMENTS	
SHEET TITLE	
AMBROSE CT. PLAN & PROFILE FROM STA. 1+63.00 TO STA. 5+73.00	
SHEET NO.	
11	
OF	36

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 09/01/10

UTILITY LOCATOR SERVICES	
EL PASO ELECTRIC COMPANY	(915) 543-5720
EL PASO ENERGY CORPORATION	(915) 496-5244
EL PASO WATER UTILITIES	(915) 594-5527
MCI SURVEILLANCE	(800) MCI-WORK
PARAGON CABLE	(915) 772-1123
TEXAS GAS CO.	(915) 544-6300
SOUTHWESTERN BELL TELEPHONE	(800) 828-5127
AT&T	(800) 852-3786
U.S. SPRINT TELECOMM	(800) 521-0579

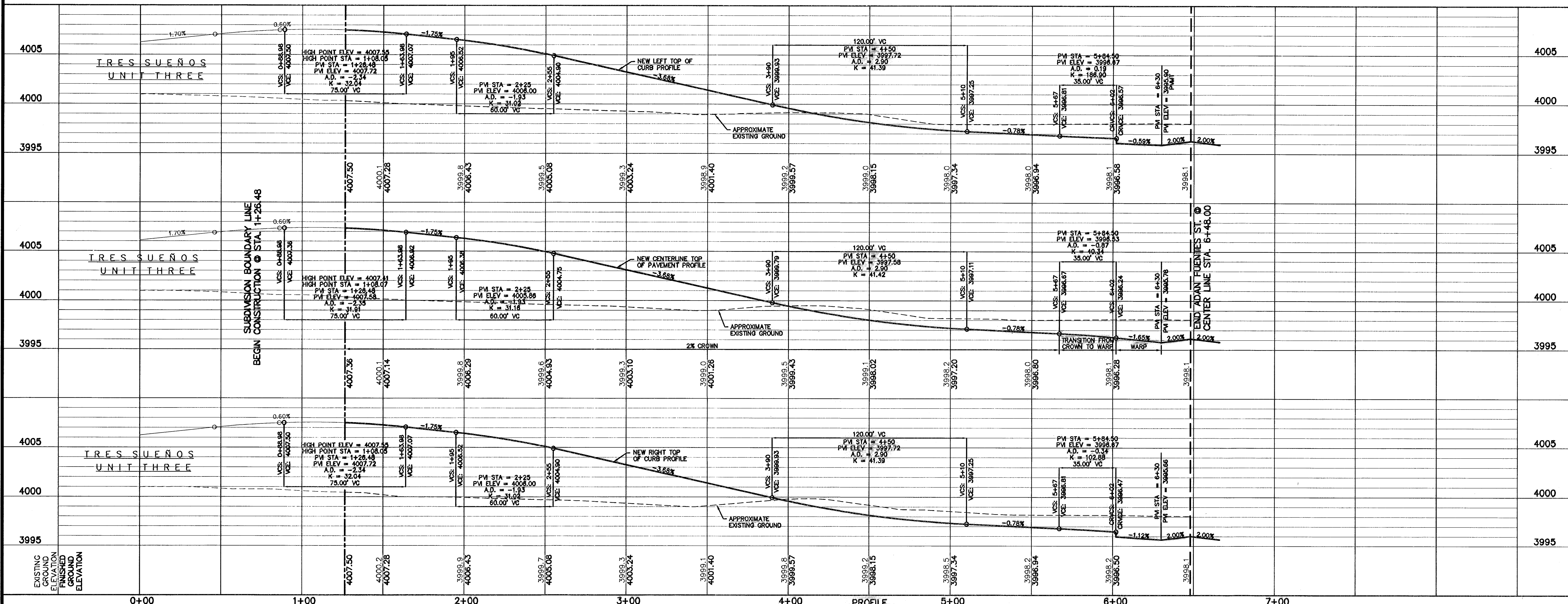
**WARNING!**  
**BEFORE YOU DIG**  
 CALL  
**1-800-DIG-TESS**  
**1-800-344-8377**  
 FOR FIELD LOCATING EXISTING UTILITIES

DATE	REVISIONS	BY

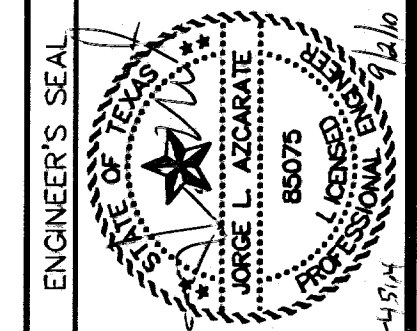


PLAN

**LEGEND:**  
 5' x 5' WHEELCHAIR PASSING  
 WHEELCHAIR RAMP (TYP.)



PROFILE



SCALE: 1" = 30'  
 Horizontal: 1" = 5'  
 Contour Interval: 3'/4'  
 DATE: MARCH 2009  
 DESIGN BY: J.G.  
 DRAWN BY: D.N.  
 CHKD. BY: J.L.A.  
 APPVD. BY: J.L.A.  
 JOB NO. 2000-100-LD-4974

PROJECT TITLE  
**TRES SUEÑOS UNIT SIX  
 SUBDIVISION IMPROVEMENTS**

SHEET TITLE  
**ADAN FUENTES ST.  
 PLAN & PROFILE  
 FROM STA. 1+28.48  
 TO STA. 6+48**

SHEET NO.  
**12**  
 OF 36

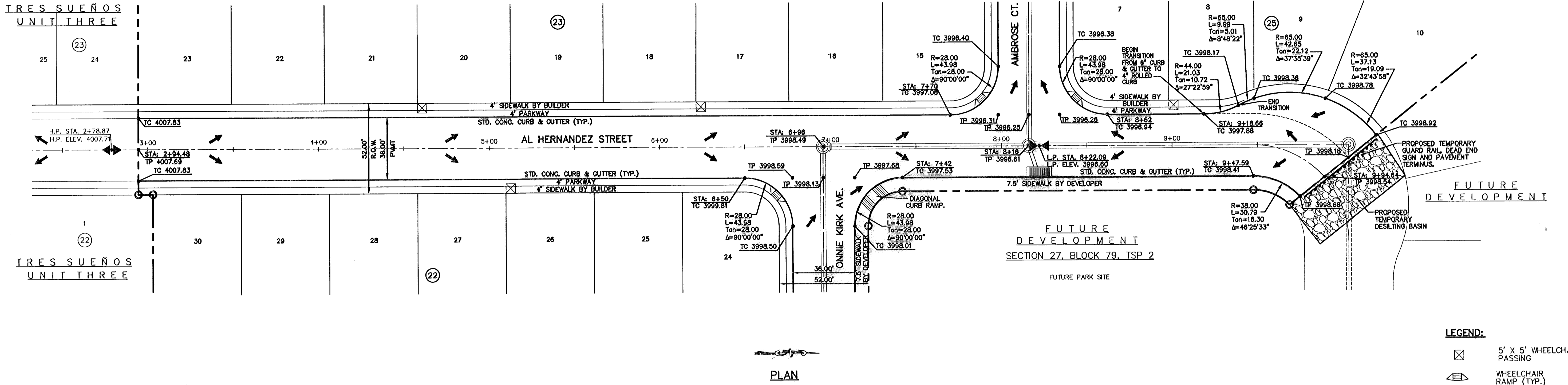
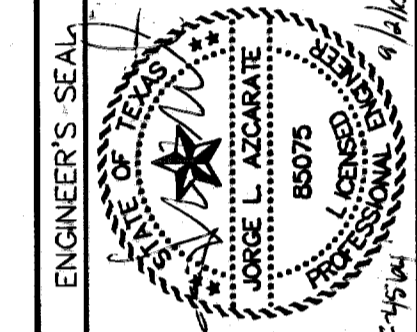
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 EL PASO ENERGY CORPORATION (915) 496-5244  
 EL PASO WATER UTILITIES (915) 594-5527  
 MCI SURVEILLANCE (800) MCI-WORK  
 PARAGON CABLE (915) 772-1123  
 TEXAS GAS CO. (915) 544-6300  
 SOUTHWESTERN BELL TELEPHONE (800) 828-5127  
 AT&T (800) 852-3788  
 U.S. SPRINT TELECOMM (800) 521-0579

**WARNING I BEFORE YOU DIG**  
 CALL  
 1-800-DIG-TESS  
 1-800-344-8377  
 FOR FIELD LOCATING EXISTING UTILITIES

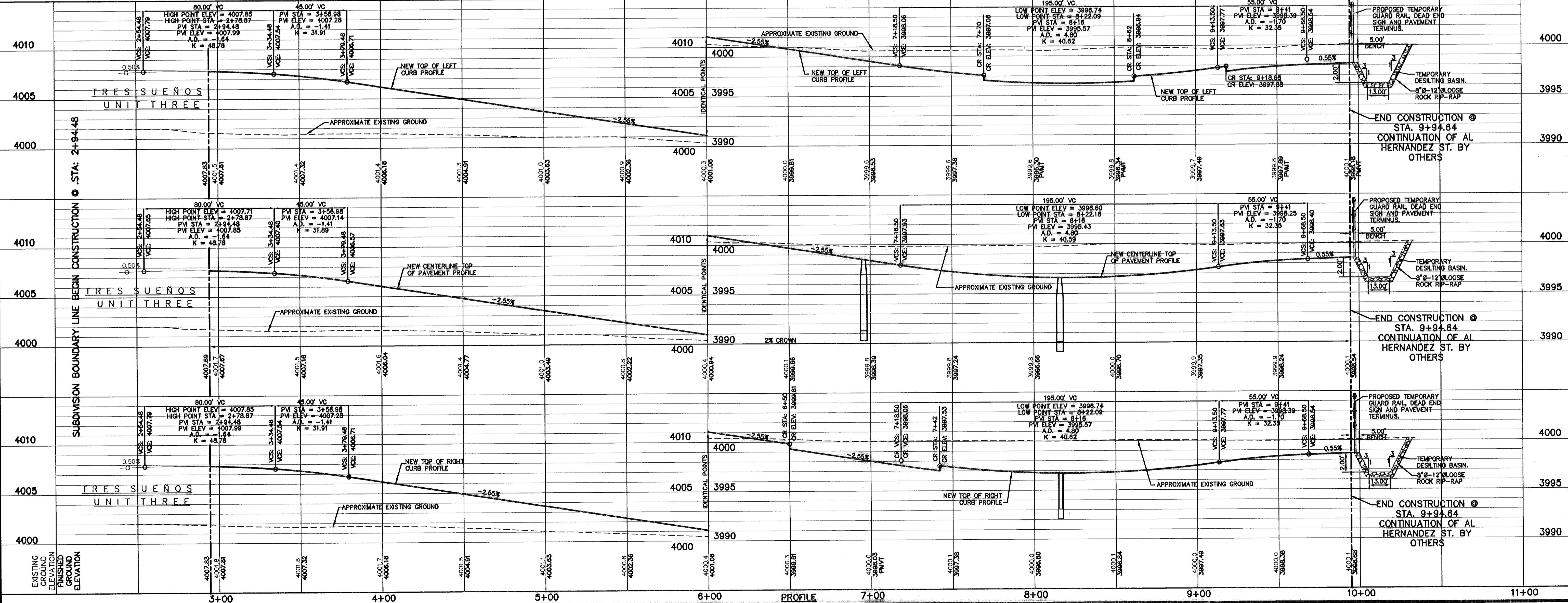
REFERENCES - BENCHMARKS  
 CITY MONUMENT AT POINT OF CURVE  
 DISTANCE FROM BENCH MARK TO POINT OF CURVE  
 SOUTHERLY RIGHT OF WAY LINE OF MONTANA AVENUE CITY DATUM  
 ELEVATION.....4005.40

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**PLAN**

**LEGEND:**  
 [Symbol] 5' X 5' WHEELCHAIR PASSING  
 [Symbol] WHEELCHAIR RAMP (TYP.)



**PROFILE**

SCALE: 1"=30'  
 Horizontal: 1"=5'  
 Vertical: 1"=5'  
 Date: MARCH 2009  
 Designer: J.G.  
 Drawn by: J.L.A.  
 Checked by: J.L.A.  
 Approved by: J.L.A.  
 Job No.: 2000-100-10

**TRES SUEÑOS UNIT SIX SUBDIVISION IMPROVEMENTS**

**AL HERNANDEZ STREET PLAN & PROFILE FROM STA. 2+94.48 TO STA. 9+94.84**  
 SHEET NO. **13**  
 OF 36

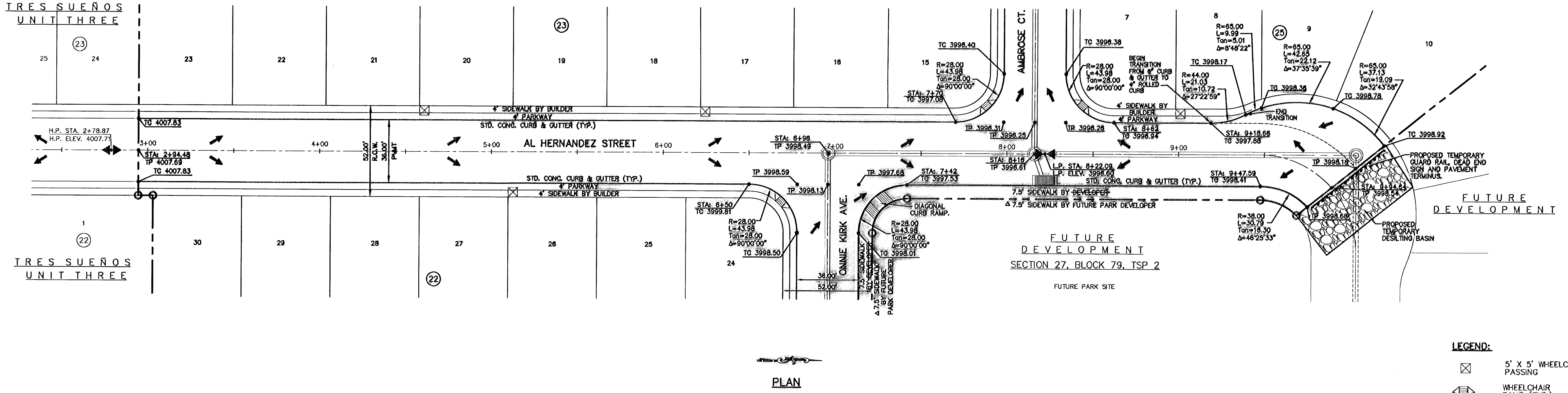
**RECORD DRAWINGS**  
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 11/03/10

UTILITY LOCATOR SERVICES		
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EL PASO ENERGY CORPORATION	(915) 498-5244	
EL PASO WATER UTILITIES	(915) 594-5527	
MCI SURVEILLANCE	(800) MCI-WORK	
PARAGON CABLE	(915) 772-1123	
TEXAS GAS CO.	(915) 544-6300	
SOUTHWESTERN BELL TELEPHONE	(800) 828-5127	
AT&T	(800) 852-3788	
U.S. SPRINT TELECOMM	(800) 521-0579	

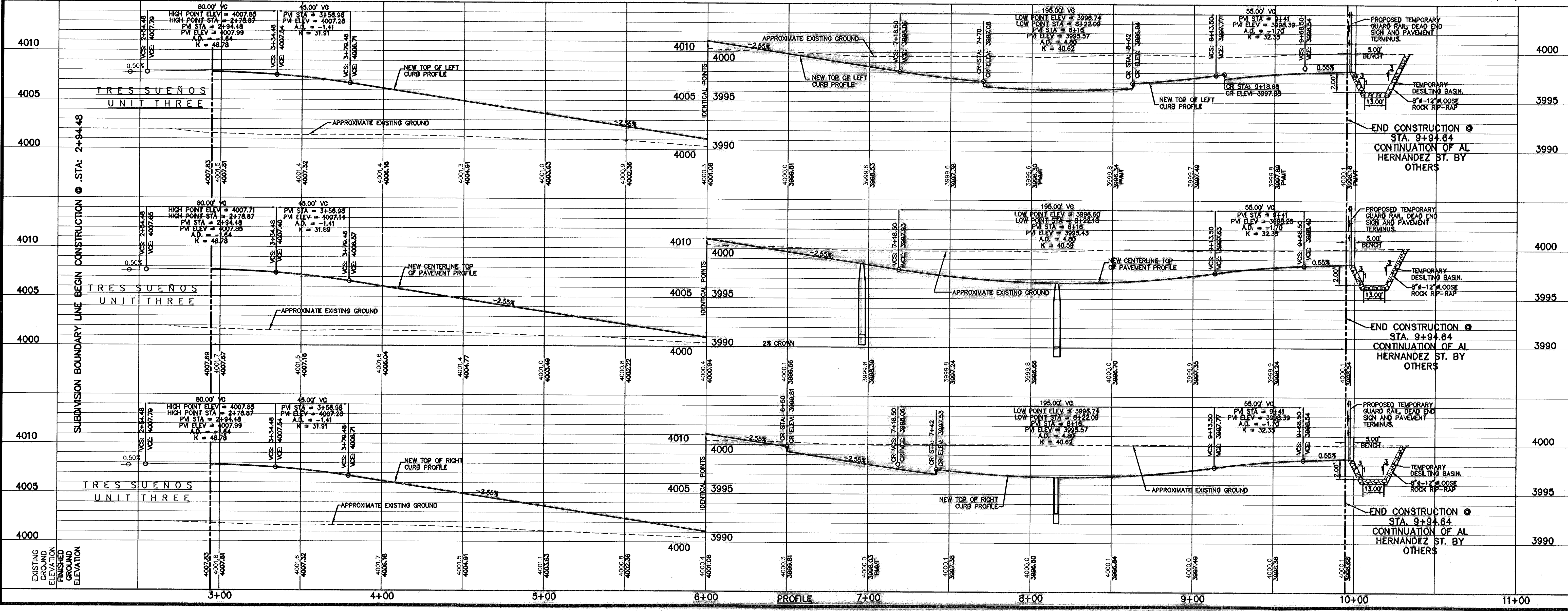
**WARNING!**  
**BEFORE YOU DIG**  
 CALL  
 1-800-DIG-TESS  
 1-800-344-8377  
 FOR FIELD LOCATING EXISTING UTILITIES

REFERENCES - BENCHMARKS  
 CITY MONUMENT AT POINT OF CURVE  
 CENTERLINE RICH BEEM ELEV. 4084.31' E A  
 CENTERLINE RICH BEEM ELEV. 4084.31' E A  
 SOUTHERLY RIGHT OF WAY LINE OF MONTANA  
 AVENUE CITY DATUM  
 ELEVATION.....4005.40  
 DATE 11-03-10  
 REVISIONS BY

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 Dallas, TX 75202  
 972.742.2222 Fax 972.742.2222  
 www.osa.com  
 F-1504



**LEGEND:**  
 5' X 5' WHEELCHAIR PASSING  
 WHEELCHAIR RAMP (TYP.)



SCALE  
 Horizontal: 1" = 30'  
 Vertical: 1" = 3'  
 Contour Interval: 1' / 2'  
 DATE: MARCH 2009  
 DESIGN BY: J.G.  
 DRAWN BY: D.N.  
 CHKD. BY: J.L.L.  
 APP'D. BY: J.L.L.  
 JOB No. 2000-100 LD

PROJECT TITLE  
**TRES SUEÑOS UNIT SIX  
 SUBDIVISION IMPROVEMENTS**

SHEET TITLE  
**AL HERNANDEZ STREET  
 PLAN & PROFILE  
 FROM STA. 2+94.48  
 TO STA. 9+94.64**

SHEET NO.  
**13**

OF 36

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 11/03/10

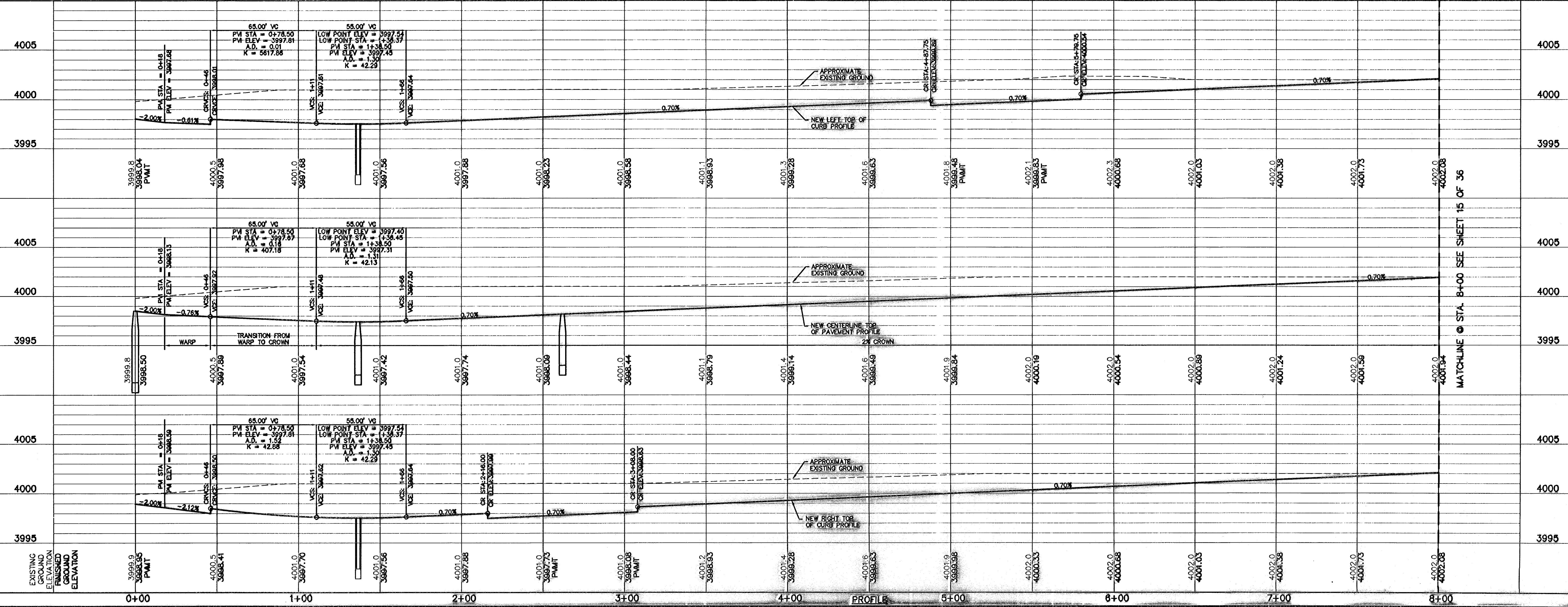
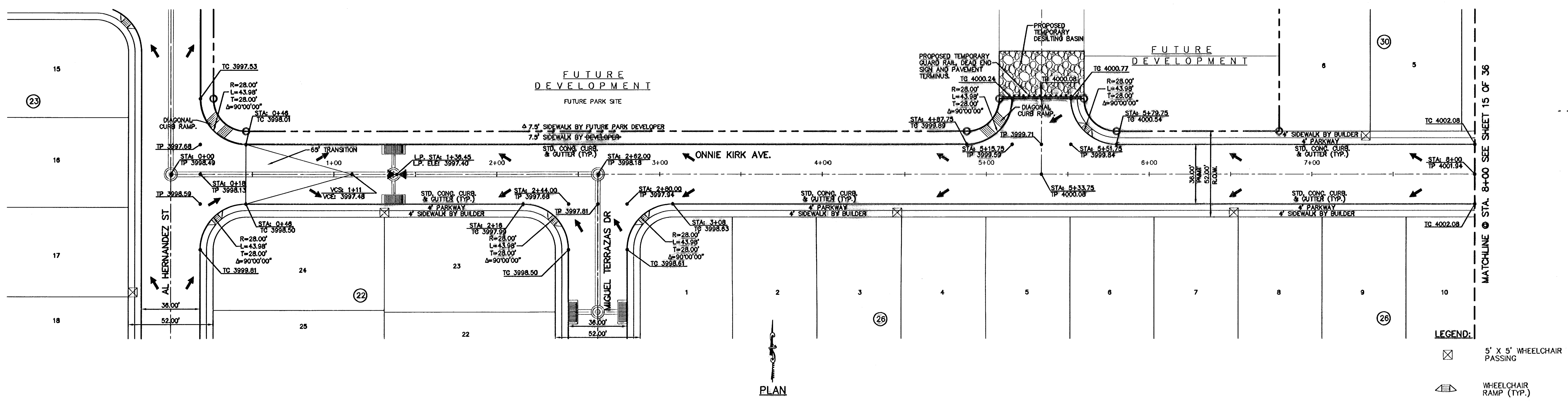
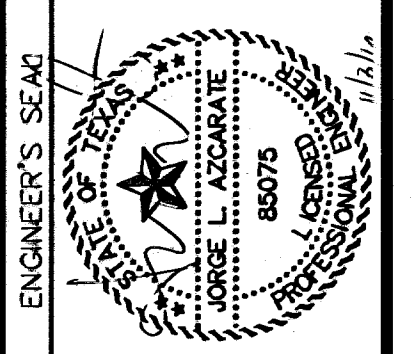
**UTILITY LOCATOR SERVICES**

EL PASO ELECTRIC COMPANY	(915) 543-5720
EL PASO ENERGY CORPORATION	(915) 498-5244
EL PASO WATER UTILITIES	(915) 594-5527
MCI SURVEILLANCE	(800) MCI-WORK
PARAGON CABLE	(915) 772-1123
TEXAS GAS CO.	(915) 544-6300
SOUTHWESTERN BELL TELEPHONE	(800) 828-5127
AT&T	(800) 852-3786
U.S. SPRINT TELECOMM	(800) 521-0579

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 1-800-DIG-TESS  
 1-800-344-8377  
 FOR FIELD LOCATING EXISTING UTILITIES

REFERENCES - BENCHMARKS  
 CITY MONUMENT AT POINT OF CURVE  
 CENTERLINE RICH BEEM BLVD., S08°43'31" E x A  
 DISTANCE OF 907.56 FEET FROM THE  
 POINT OF BEGINNING TO THE  
 AVENUE CITY DATUM  
 ELEVATION:..... 4005.40  
 DATE:.....  
 REVISIONS:.....  
 BY:.....  
 DATE:.....  
 REVISIONS:.....  
 BY:.....  
 DATE:.....

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 Office: 915.544.6222 Fax: 915.544.6223 www.ceagroup.com



SCALE  
 Horizontal: 1"=30'  
 Vertical: 1"=5'  
 Contour Interval: N/A  
 DATE: MARCH 2009  
 DESIGN BY: J.G.  
 DRAWN BY: D.N.  
 CHKD. BY: J.L.A.  
 APPVD. BY: J.L.A.  
 JOB No.: 2000-100 LD

PROJECT TITLE  
**TRES SUEÑOS UNIT SIX**  
**SUBDIVISION IMPROVEMENTS**

SHEET TITLE  
**ONNIE KIRK AVE.**  
**PLAN & PROFILE**  
**FROM STA. 0+00**  
**TO STA. 8+00**  
 SHEET NO.  
**14**  
 OF 38



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 09/01/10

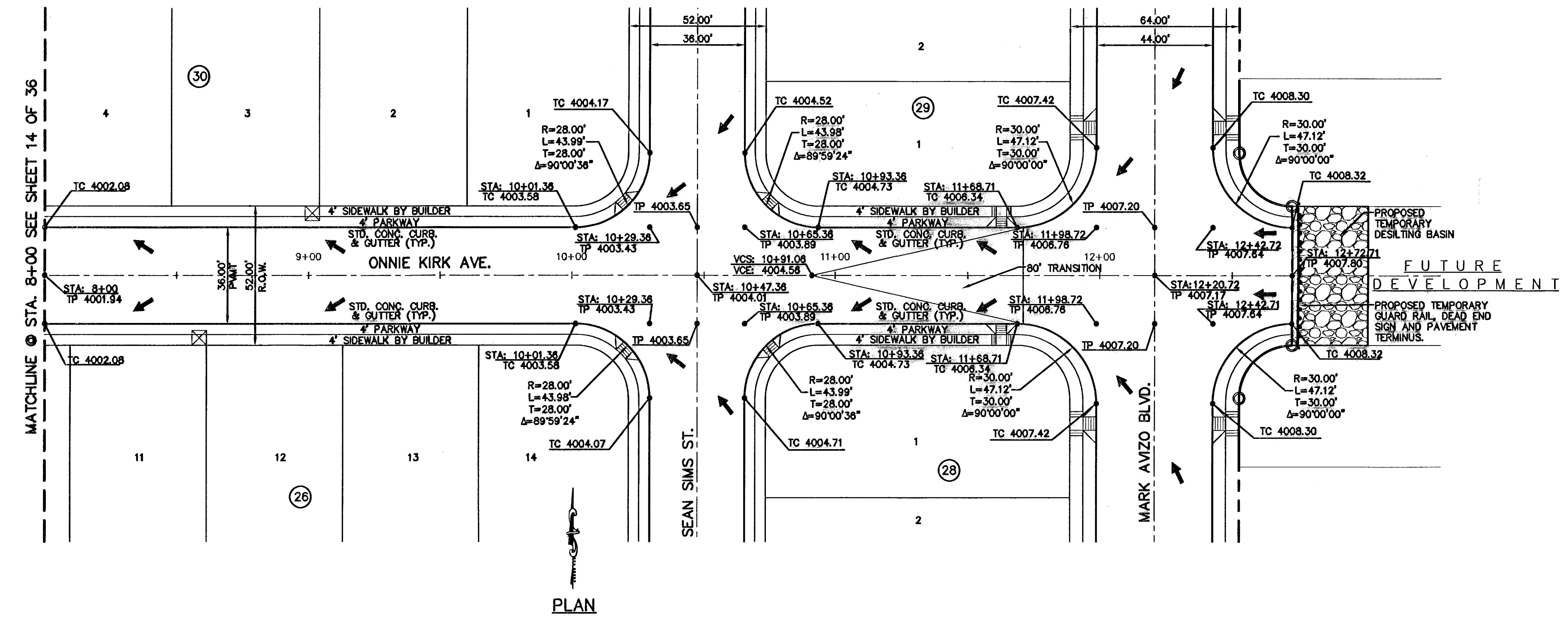
UTILITY LOCATOR SERVICES	
EL PASO ELECTRIC COMPANY	(915) 543-5720
EL PASO ENERGY CORPORATION	(915) 496-5244
EL PASO WATER UTILITIES	(915) 594-5527
MCI SURVEILLANCE	(800) MCI-WORK
PARAGON CABLE	(915) 772-1123
TEXAS GAS CO.	(915) 544-6300
SOUTHWESTERN BELL TELEPHONE	(800) 828-5127
AT&T	(800) 852-3786
U.S. SPRINT TELECOMM	(800) 521-0579

**WARNING!**  
**BEFORE YOU DIG**  
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 1-800-DIG-TESS  
 1-800-344-8377  
 FOR FIELD LOCATING EXISTING UTILITIES

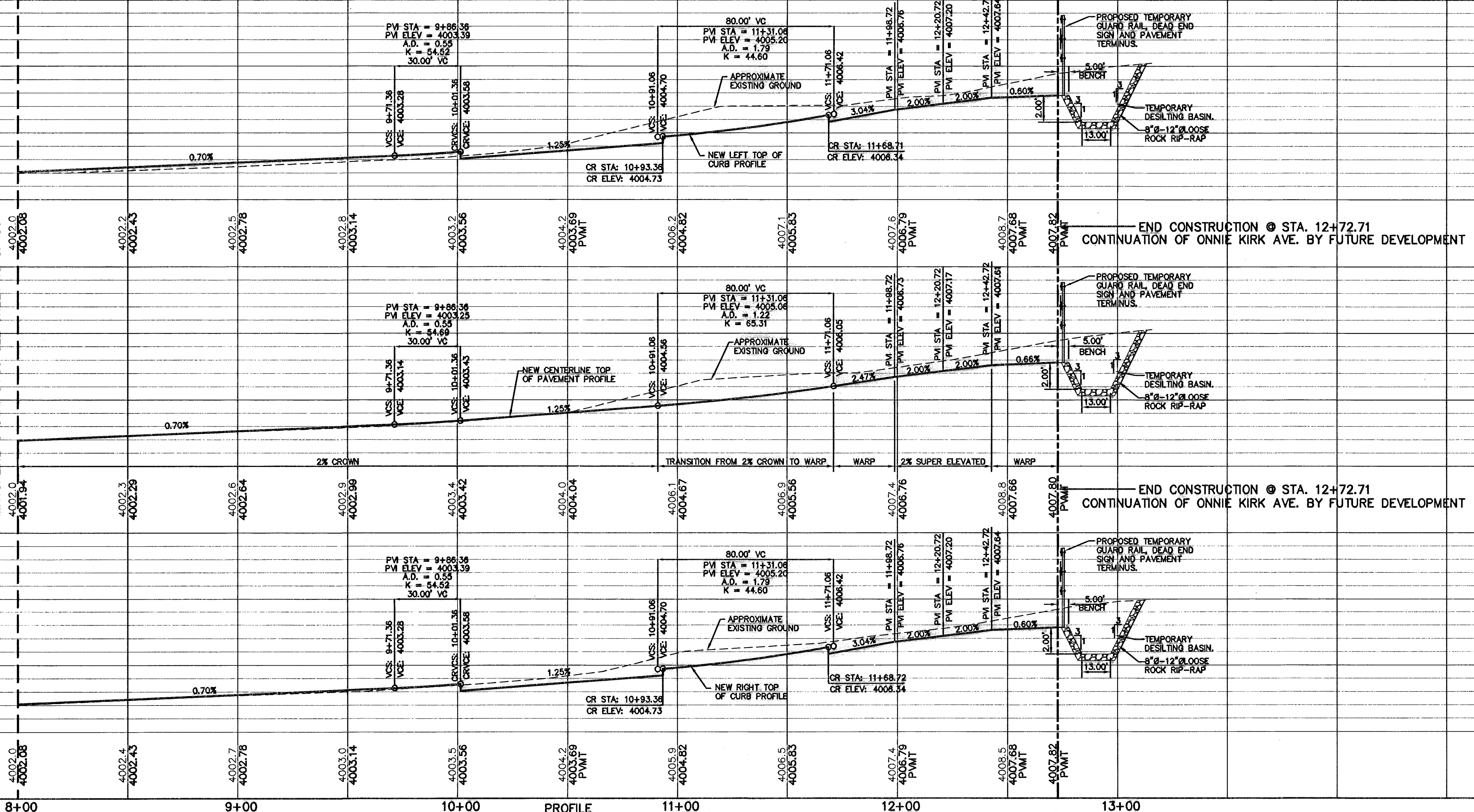
DATE	REVISIONS	BY

REFERENCES - BENCHMARKS  
 CITY MONUMENT AT POINT OF CURVE  
 CENTERLINE RICH BEEM BLVD. S08°43'31" E 4'  
 DISTANCE OF 467.58 FEET FROM THE  
 SOUTHERLY RIGHT OF WAY LINE OF MONTANA  
 AVENUE CITY DATUM  
 ELEVATION..... 4005.40

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 Office: 970.244.2222 Fax: 970.244.2233 www.osagroup.com



- LEGEND:**
- ☒ 5' X 5' WHEELCHAIR PASSING
  - ▬ DIRECTIONAL RAMP
  - ▬ WHEELCHAIR RAMP (TYP.)



ENGINEER'S SEAL  
 SCALE: 1" = 30'  
 Horizontal: 1" = 30'  
 Vertical: 1" = 5'  
 Contour Interval: 1' / 4'  
 DATE: MARCH 2009  
 DESIGN BY: J.G.  
 DRAWN BY: D.N.  
 CHKD. BY: J.L.A.  
 APPVD. BY: J.L.A.  
 JOB NO.: 2000-100.LD 1F-1544

PROJECT TITLE  
**TRES SUEÑOS UNIT SIX  
 SUBDIVISION IMPROVEMENTS**

SHEET TITLE  
**ONNIE KIRK AVE.  
 PLAN & PROFILE  
 FROM STA. 8+00  
 TO STA. 12+72.71**

SHEET NO.  
**15**

OF 36

**RECORD DRAWINGS**

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09/01/10

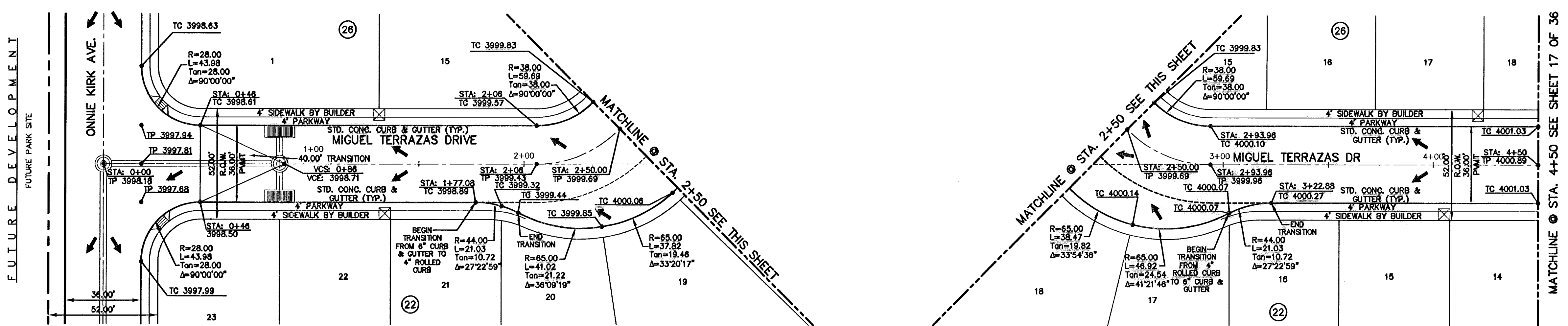
UTILITY LOCATOR SERVICES	
EL PASO ELECTRIC COMPANY	(915) 543-5720
EL PASO ENERGY CORPORATION	(915) 496-5244
EL PASO WATER UTILITIES	(915) 594-5527
MCI SURVEILLANCE	(800) MCI-WORK
PARAGON CABLE	(915) 772-1123
TEXAS GAS CO.	(915) 544-6300
SOUTHWESTERN BELL TELEPHONE	(800) 828-5127
AT&T	(800) 852-3788
U.S. SPRINT TELECOMM	(800) 521-0579

**WARNING!**  
**BEFORE YOU DIG**

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1-800-344-8377

FOR FIELD LOCATING EXISTING UTILITIES

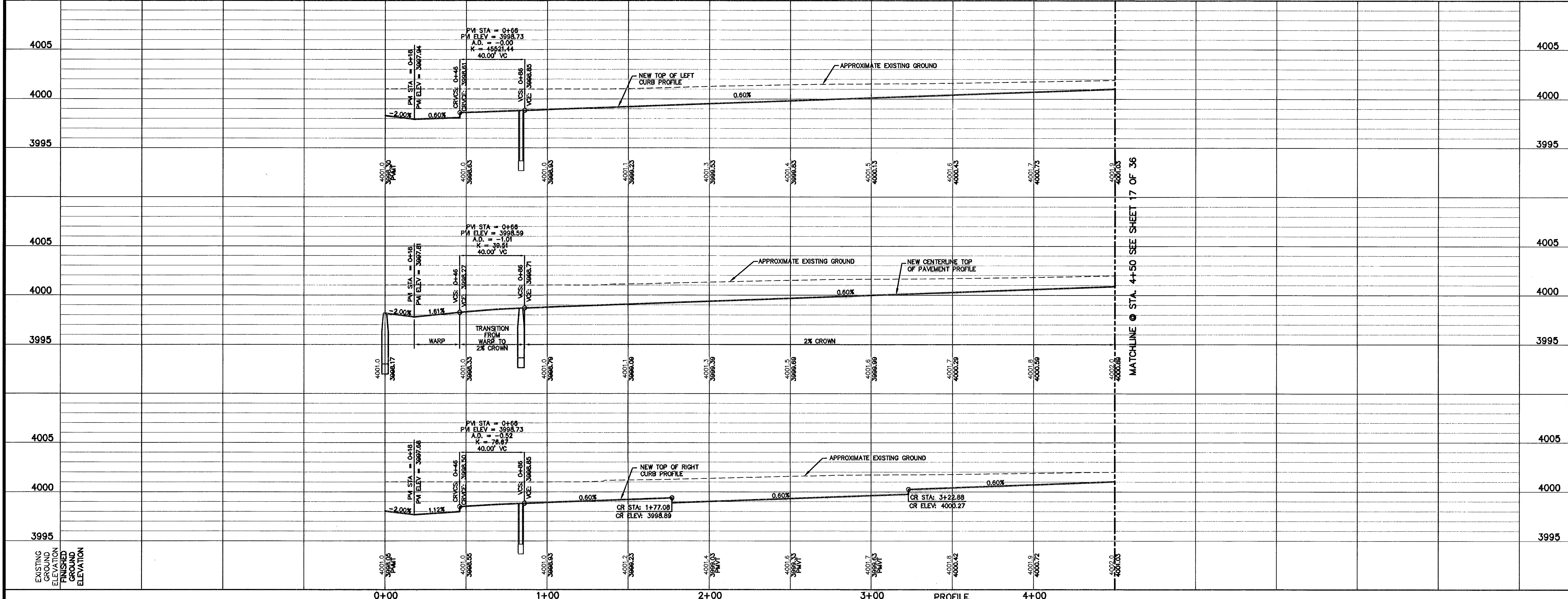
DATE	REVISIONS	BY



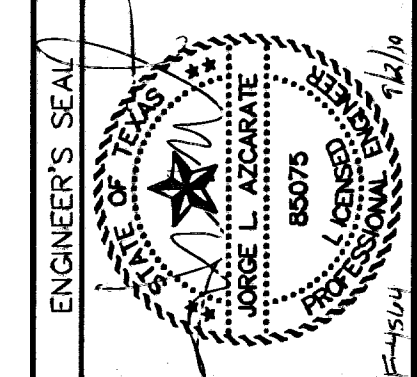
PLAN

PLAN

- LEGEND:**
- ☒ 5' X 5' WHEELCHAIR PASSING
  - ▬ WHEELCHAIR RAMP (TYP.)



PROFILE



SCALE  
Horizontal: 1"=30'  
Vertical: 1"=5'  
Contour Interval: N/A  
DATE: MARCH 2009  
DESIGN BY: J.C.  
DRAWN BY: D.N.  
CHKD. BY: J.L.A.  
APPD. BY: J.L.A.  
JOB No.: 2000-100 LD

PROJECT TITLE  
**TRES SUEÑOS UNIT SIX  
SUBDIVISION IMPROVEMENTS**

SHEET TITLE

MIGUEL TERRAZAS DR.  
PLAN & PROFILE  
FROM STA. 0+00  
TO STA. 4+50

SHEET NO.

**16**

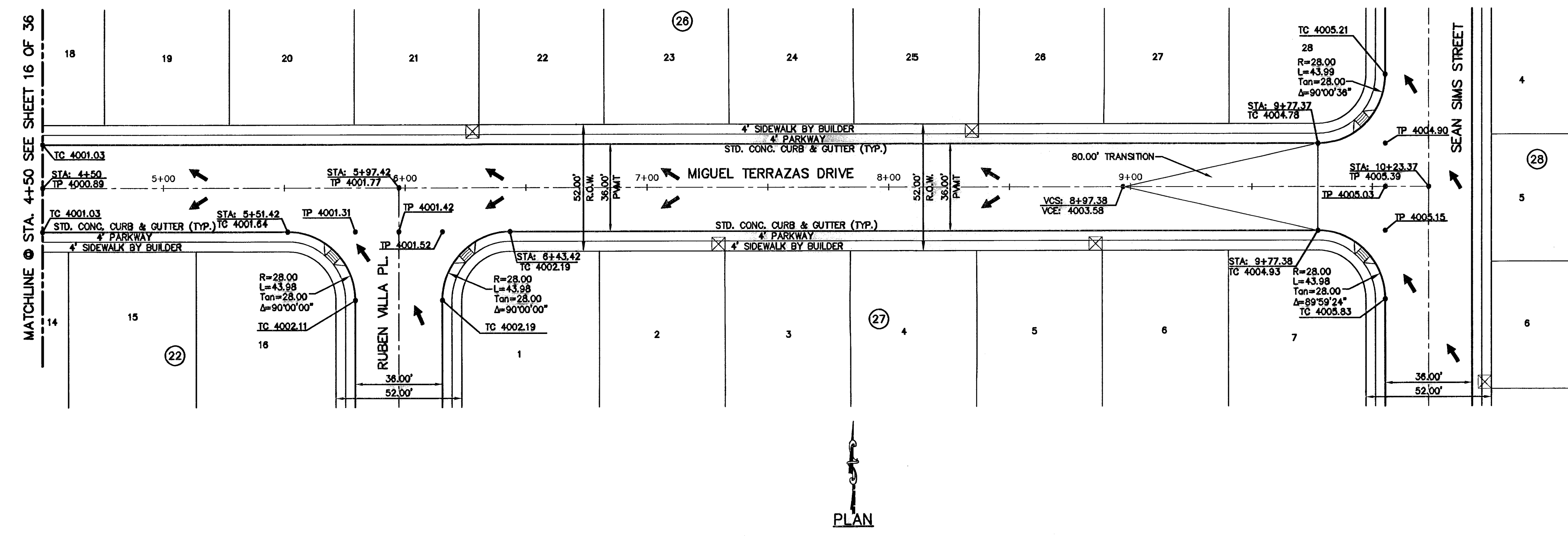
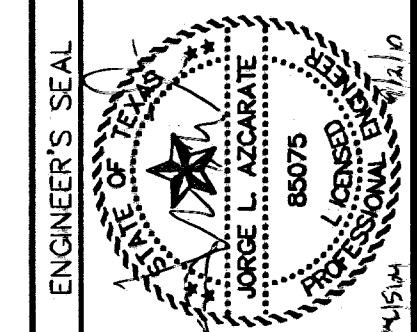
**RECORD DRAWINGS**  
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 09/01/10

UTILITY LOCATOR SERVICES	
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EL PASO WATER UTILITIES	(915) 594-5527
MCI SURVEILLANCE	(800) MCI-WORK
PARAGON CABLE	(915) 772-1123
TEXAS GAS CO.	(915) 544-6300
SOUTHWESTERN BELL TELEPHONE	(800) 828-5127
AT&T	(800) 852-3788
U.S. SPRINT TELECOMM	(800) 521-0579

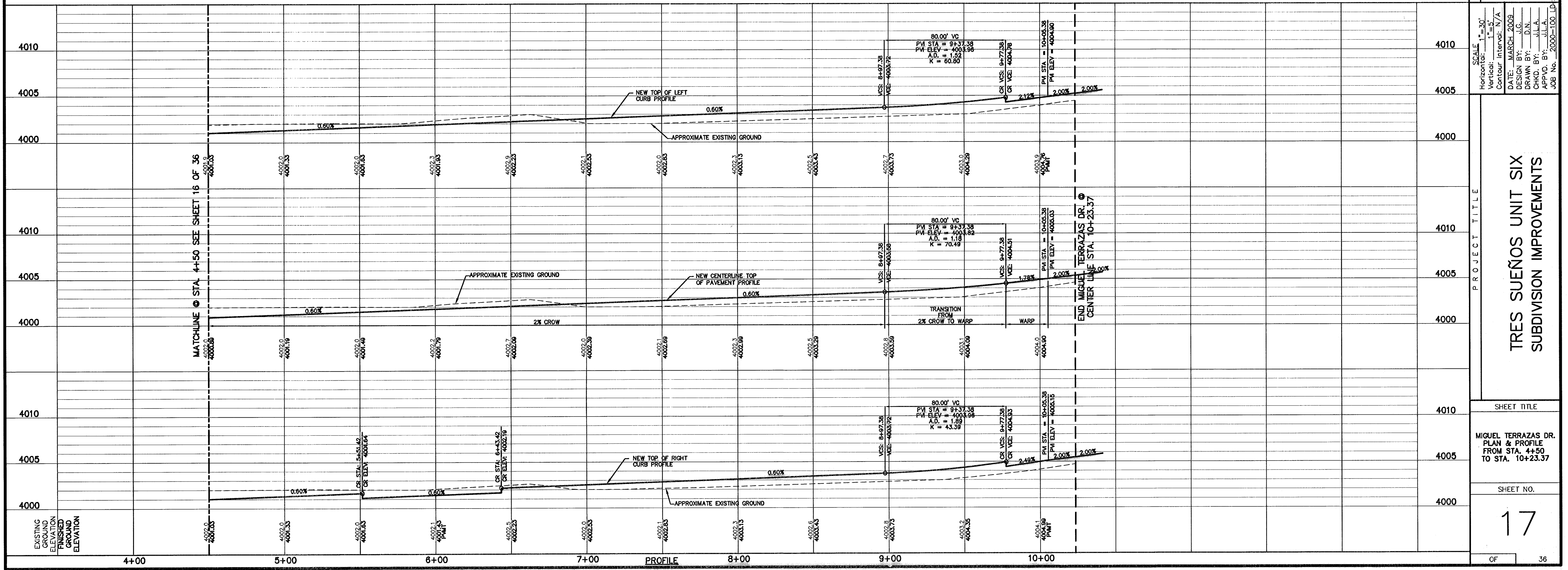
**WARNING I BEFORE YOU DIG**  
 CALL  
 1-800-DIG-TESS  
 1-800-344-8377  
 FOR FIELD LOCATING EXISTING UTILITIES

DATE	REVISIONS	BY

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 engineers + architects + planners  
 Casiner Center @ Transmountain  
 4712 Woodrow Wilson, Ste. F El Paso, TX 79964  
 (915) 762-1111 Fax: (915) 762-1110 www.osa.com



**LEGEND:**  
 ☒ 5' x 5' WHEELCHAIR PASSING  
 ♣ WHEELCHAIR RAMP (TYP.)



**SCALE:**  
 Horizontal: 1"=30'  
 Vertical: 1"=5'  
 Contour Interval: N/A  
 DATE: MARCH 2009  
 DESIGN BY: J.C.  
 DRAWN BY: D.N.  
 CHKD. BY: J.L.A.  
 APPVD. BY: J.L.A.  
 JOB No. 2000-100 LP

**PROJECT TITLE**  
 TRES SUEÑOS UNIT SIX  
 SUBDIVISION IMPROVEMENTS

**SHEET TITLE**

MIGUEL TERRAZAS DR.  
 PLAN & PROFILE  
 FROM STA. 4+50  
 TO STA. 10+23.37

**SHEET NO.**

17

OF 36

**RECORD DRAWINGS**

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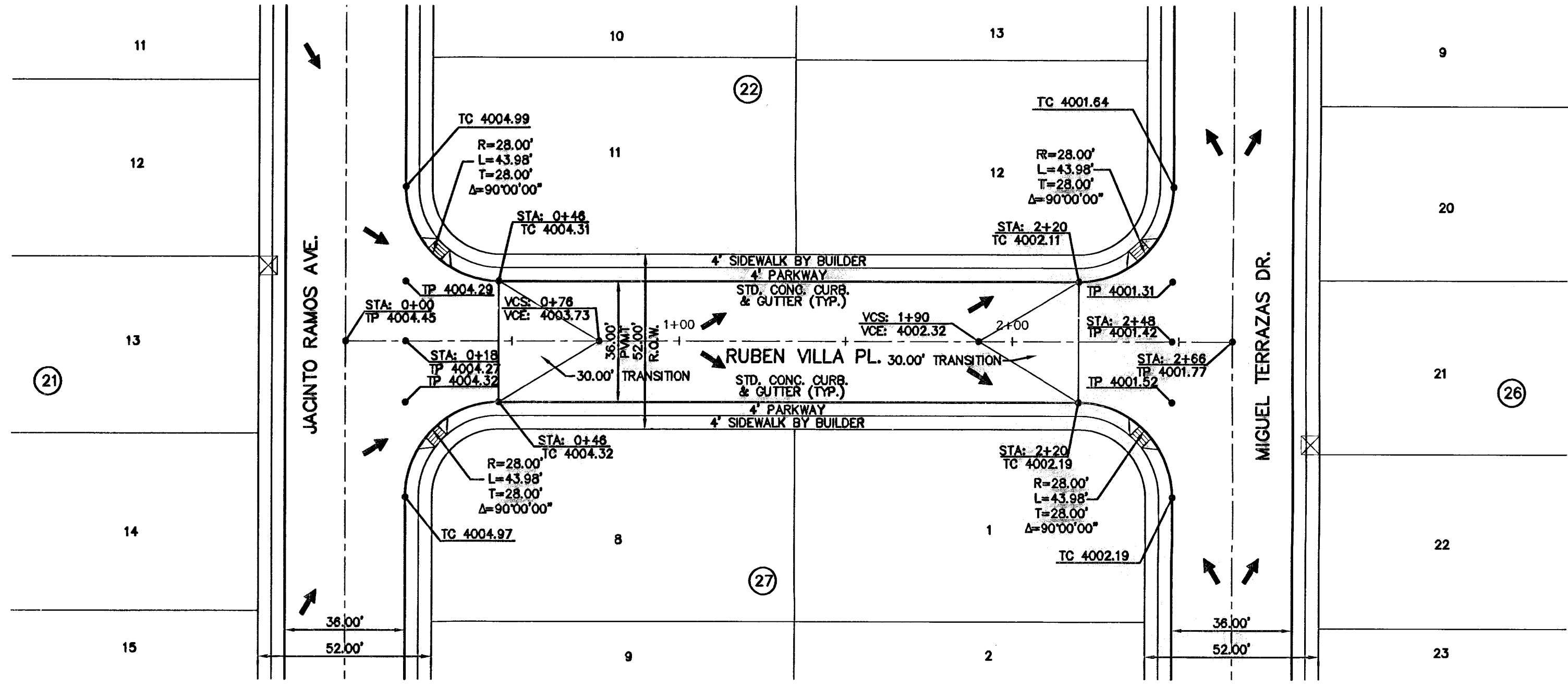
09/01/10

UTILITY LOCATOR SERVICES	
EL PASO ELECTRIC COMPANY	(915) 543-5720
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EL PASO WATER UTILITIES	(915) 594-5527
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AT&T	(800) 852-3786
U.S. SPRINT TELECOMM	(800) 521-0579

**WARNING I  
BEFORE YOU DIG**

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1-800-344-8377

FOR FIELD LOCATING EXISTING UTILITIES

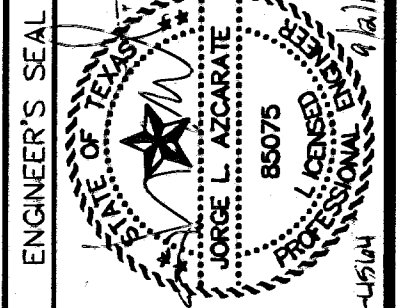
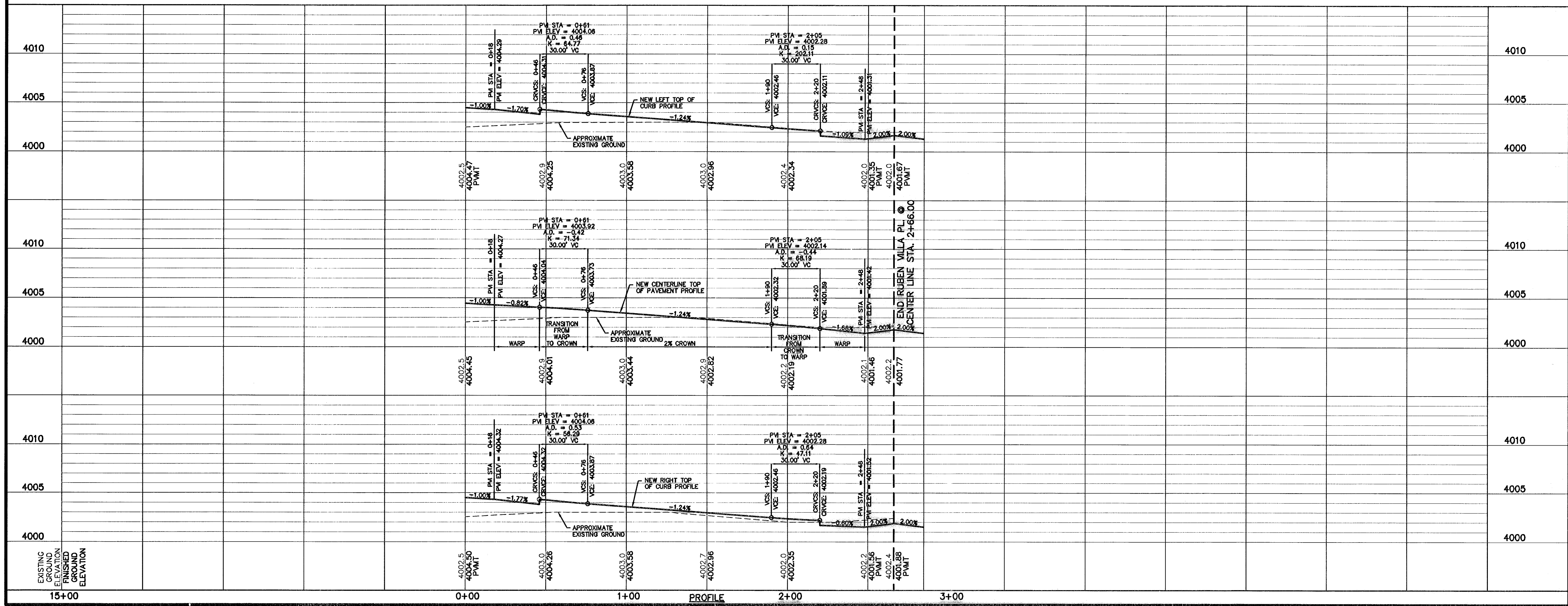


PLAN

**LEGEND:**

☒ 5' X 5' WHEELCHAIR PASSING

⚡ WHEELCHAIR RAMP (TYP.)



SCALE: Horizontal: 1"=30'  
Vertical: 1"=5'  
Contour Interval: N/A

DATE: MARCH 2009  
DESIGN BY: J.G.  
DRAWN BY: D.N.  
CHKD. BY: J.L.A.  
APPD. BY: J.L.A.

JOB No. 2000-100 LD

PROJECT TITLE

**TRES SUEÑOS UNIT SIX  
SUBDIVISION IMPROVEMENTS**

SHEET TITLE

**RUBEN VILLA PL.  
PLAN & PROFILE  
FROM STA. 0+00  
TO STA. 2+66**

SHEET NO.

**18**

OF 36

REFERENCES - BENCHMARKS

CITY MONUMENT AT POINT OF CURVE  
CENTERLINE RICH BEEM BLVD., S08°43'31" E A  
DISTANCE OF 467.58 FEET FROM THE  
SOUTHERLY RIGHT OF WAY LINE OF MONTANA  
ELEVATION.....4005.40

DATE REVISIONS

**SEA**

engineers • architects • planners

Castro Center @ Transmountain  
4712 Woodrow Blvd. Ste. F El Paso, TX 79824  
Phone: 915.544.5222 Fax: 915.544.5225 www.seagroup.net

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09/01/10

**UTILITY LOCATOR SERVICES**

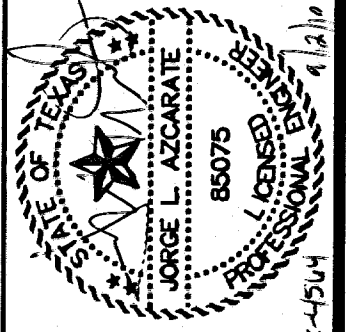
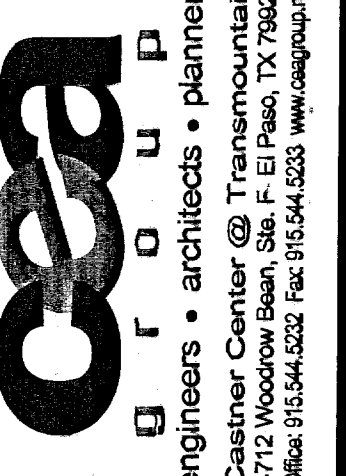
- EL PASO ELECTRIC COMPANY (915) 543-5720
- EL PASO ENERGY CORPORATION (915) 496-5244
- EL PASO WATER UTILITIES (915) 594-5527
- MCI SURVEILLANCE (800) MCI-WORK
- PARAGON CABLE (915) 772-1123
- TEXAS GAS CO. (915) 544-6300
- SOUTHWESTERN BELL TELEPHONE (800) 828-5127
- AT&T (800) 852-3788
- U.S. SPRINT TELECOMM (800) 521-0579

**WARNING!**  
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1-800-DIG-TESS  
1-800-344-8377  
FOR FIELD LOCATING EXISTING UTILITIES

REFERENCES - BENCHMARKS

CITY MONUMENT AT POINT OF CURVE CENTERLINE RICH BEEM BLVD. S08+23.31	E A
SOUTHERLY RIGHT OF WAY LINE OF MONTANA AVENUE CITY DATUM	
ELEVATION	4005.40
DATE	
REVISIONS	
BY	



SCALE

Horizontal	1" = 30'
Vertical	1" = 5'
Contour Interval	N/A
DATE	MARCH 2009
DESIGN BY	J.G.
DRAWN BY	D.N.
CHKD. BY	J.L.A.
APPROV. BY	J.L.A.
JOB No.	2000-100-1D

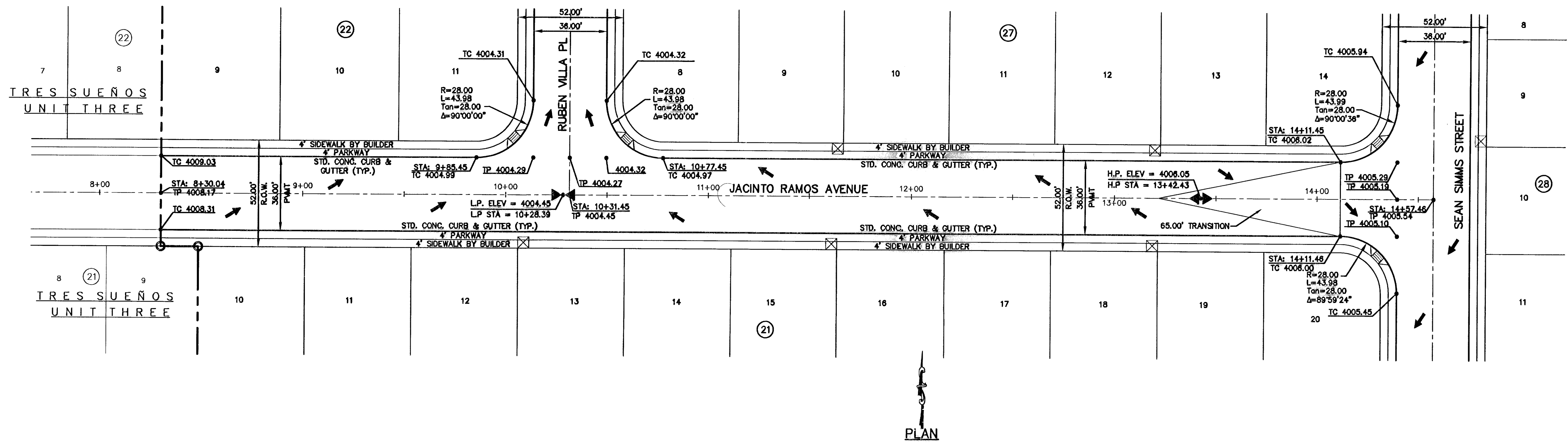
**TRES SUEÑOS UNIT SIX**  
**SUBDIVISION IMPROVEMENTS**

SHEET TITLE  
JACINTO RAMOS AVE.  
PLAN & PROFILE  
FROM STA. 8+30.04  
TO STA. 14+57.46

SHEET NO.

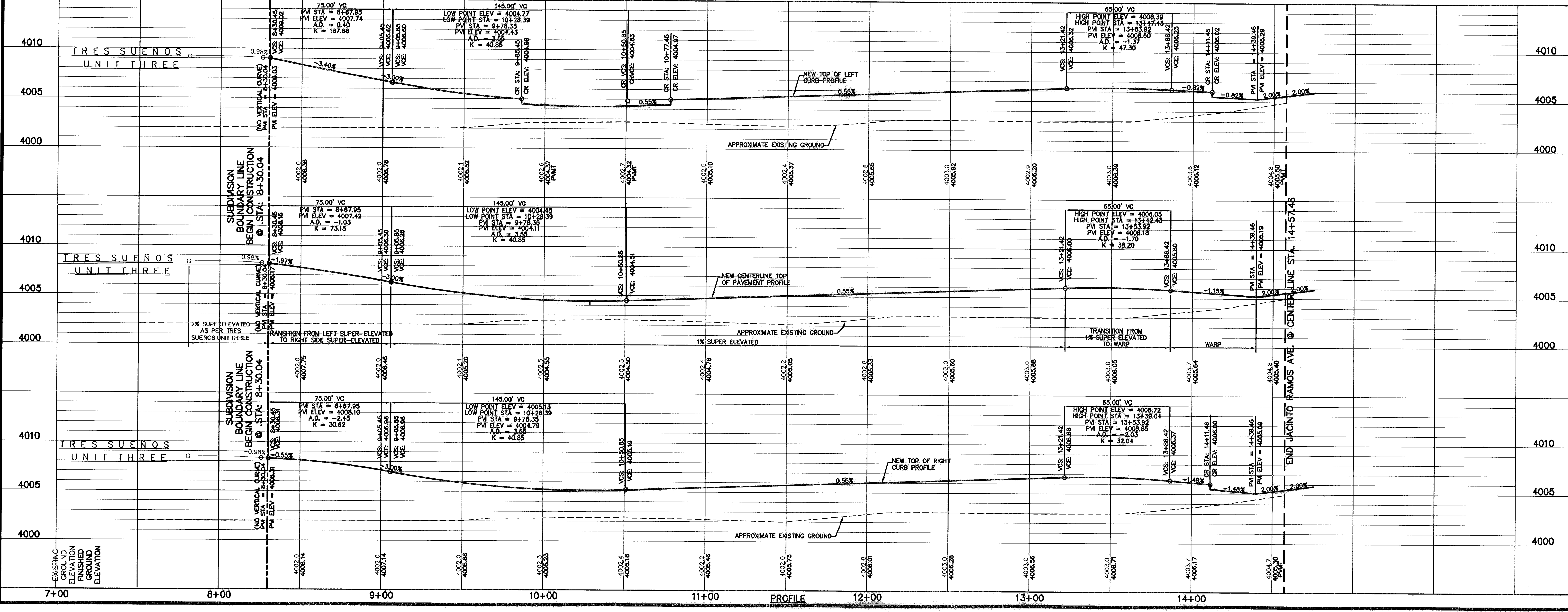
19

OF 36



- LEGEND:**
- ☒ 5' X 5' WHEELCHAIR PASSING
  - ⚡ WHEELCHAIR RAMP (TYP.)

PLAN



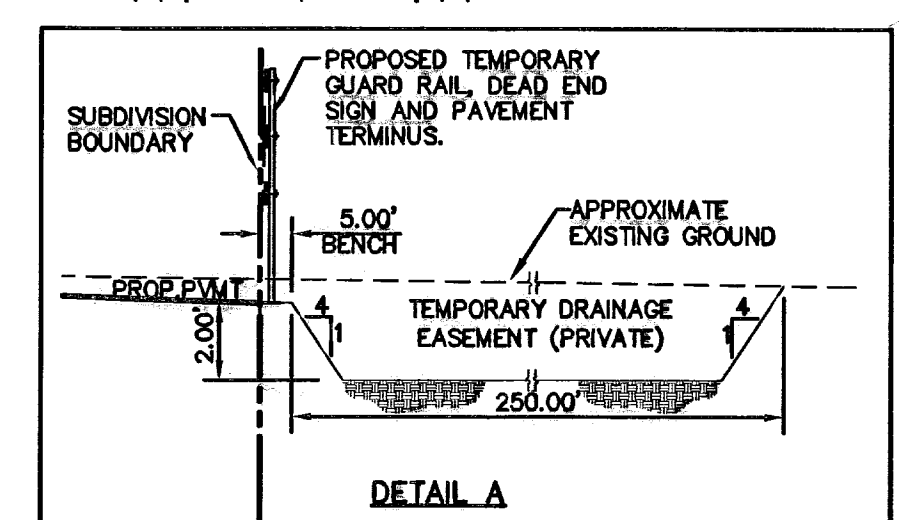
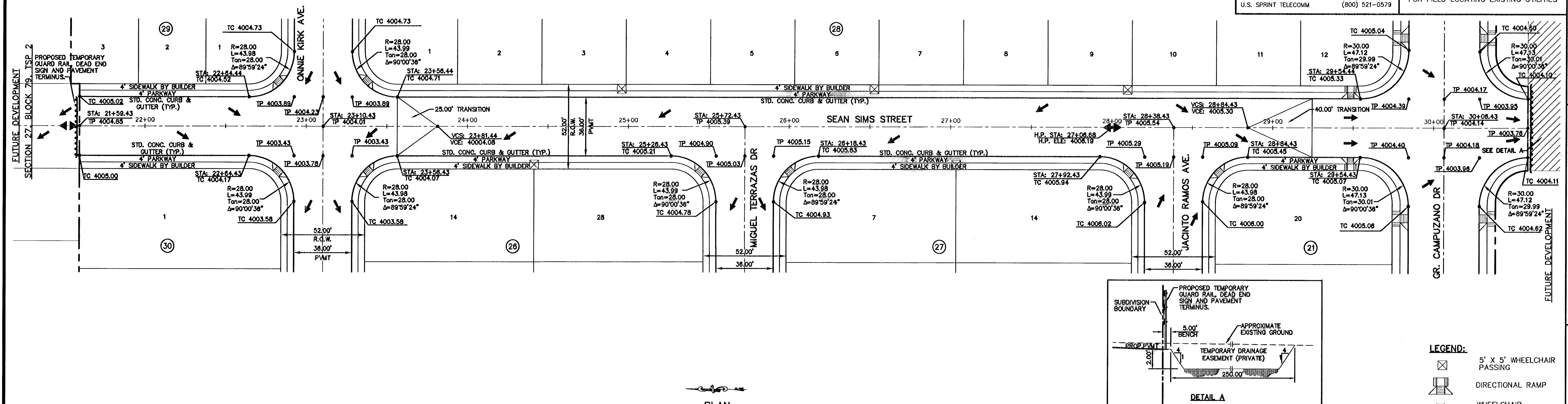
PROFILE

**RECORD DRAWINGS**  
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UTILITY LOCATOR SERVICES	
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TEXAS GAS CO.	(915) 544-6300
SOUTHWESTERN BELL TELEPHONE	(800) 828-5127
AT&T	(800) 852-3786
U.S. SPRINT TELECOMM	(800) 521-0579

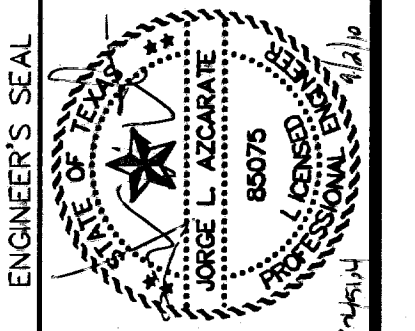
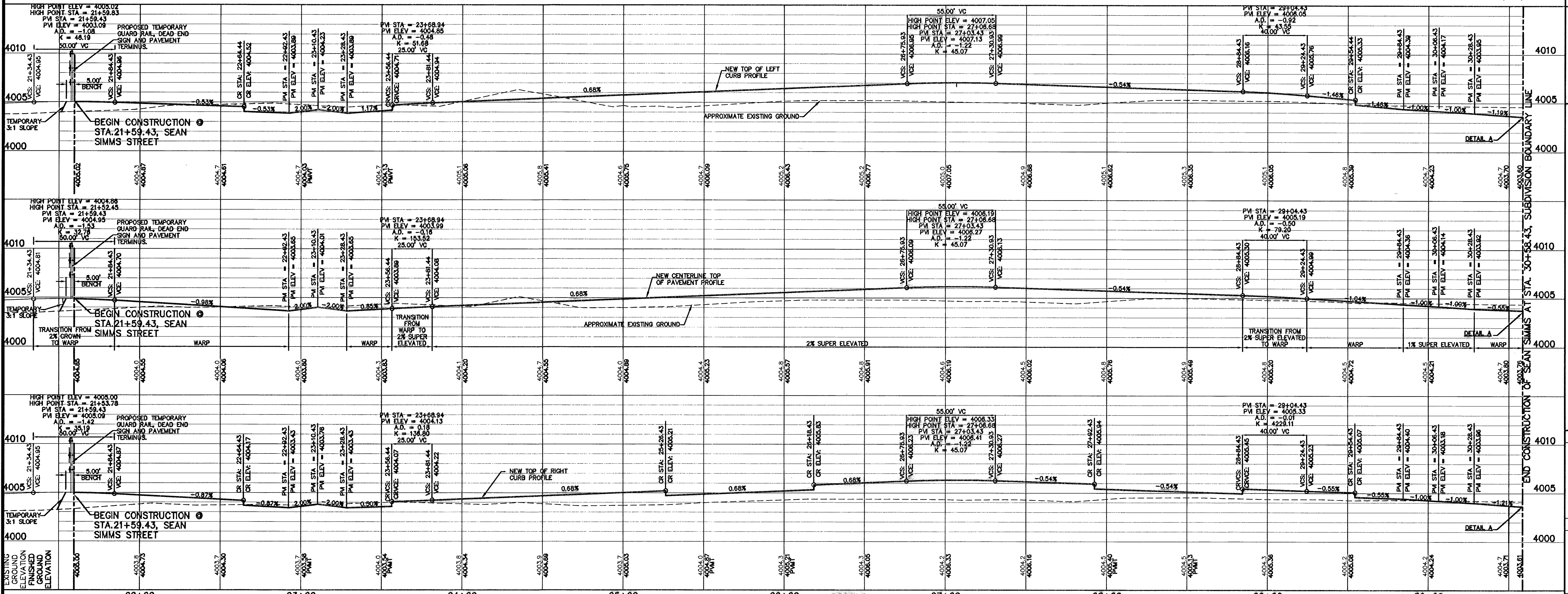
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1-800-DIG-TESS  
1-800-344-8377  
FOR FIELD LOCATING EXISTING UTILITIES

DATE	REVISIONS	BY



- LEGEND:**
- 5' x 5' WHEELCHAIR PASSING
  - DIRECTIONAL RAMP
  - WHEELCHAIR RAMP (TYP.)

PLAN



SCALE: 1" = 30'  
Vertical: 1" = 5'  
Horizontal: 1" = 30'  
DATE: MARCH 2009  
DESIGN BY: J.G.  
DRAWN BY: D.N.  
CHKD. BY: J.L.A.  
APPD. BY: J.L.A.  
JOB NO.: 20000-100 LD

**PROJECT TITLE**  
TRES SUEÑOS UNIT SIX  
SUBDIVISION IMPROVEMENTS

**SHEET TITLE**  
SEAN SIMS STREET  
PLAN & PROFILE  
FROM STA. 21+59.43  
TO STA. 30+58.43

**SHEET NO.**  
20

OF 36

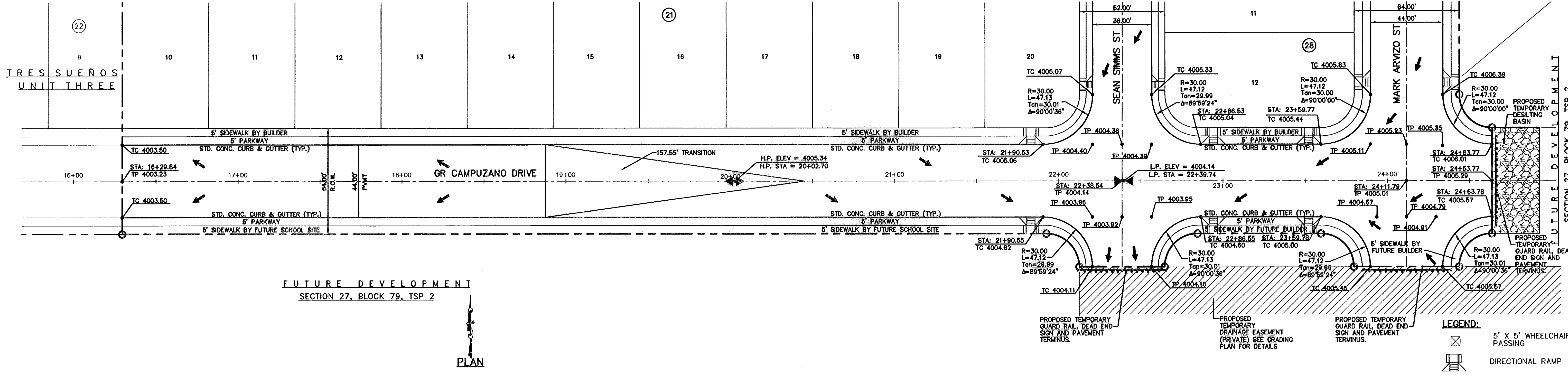
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 EL PASO WATER UTILITIES (915) 594-5527  
 MCI SURVEILLANCE (800) MCI-WORK  
 PARAGON CABLE (915) 772-1123  
 TEXAS GAS CO. (915) 544-6300  
 SOUTHWESTERN BELL TELEPHONE (800) 828-5127  
 AT&T (800) 852-3786  
 U.S. SPRINT TELECOMM (800) 521-0578

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 1-800-DIG-TESS  
 1-800-344-8377  
 FOR FIELD LOCATING EXISTING UTILITIES

REFERENCES - BENCHMARKS  
 CITY MONUMENT AT POINT OF CURVE  
 CENTERLINE BEING USED AS DATUM  
 DISTANCE OF 467.58 FEET FROM THE  
 SOUTHERLY RIGHT OF WAY LINE OF MONTANA  
 AVENUE CITY DATUM  
 ELEVATION.....4005.40

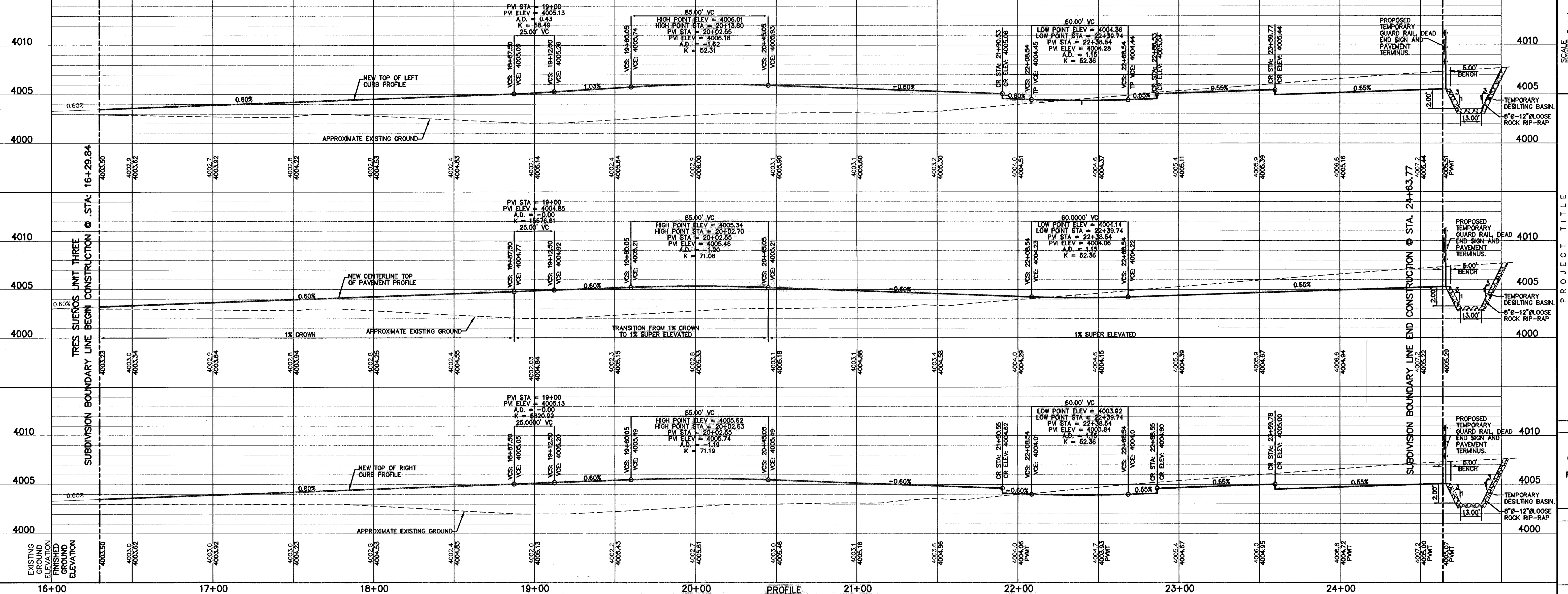
DATE \_\_\_\_\_ BY \_\_\_\_\_  
 REVISIONS \_\_\_\_\_



FUTURE DEVELOPMENT  
 SECTION 27, BLOCK 79, TSP 2

**LEGEND:**  
 5' x 5' WHEELCHAIR PASSING  
 DIRECTIONAL RAMP

PLAN



PROFILE

SCALE  
 Horizontal: 1" = 30'  
 Vertical: 1" = 5'  
 Contour Interval: N/A

DATE: MARCH 2009  
 DESIGN BY: J.G.  
 DRAWN BY: D.N.  
 CHKD. BY: J.L.A.  
 APPVD. BY: J.L.A.  
 JOB No. - 2000-100.LD

PROJECT TITLE  
**TRES SUEÑOS UNIT SIX  
 SUBDIVISION IMPROVEMENTS**

SHEET TITLE  
**G.R. CAMPUZANO DR.  
 PLAN & PROFILE  
 FROM STA. 16+29.84  
 TO STA. 24+63.77**

SHEET NO.  
**21**

**RECORD DRAWINGS**  
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 11/03/10

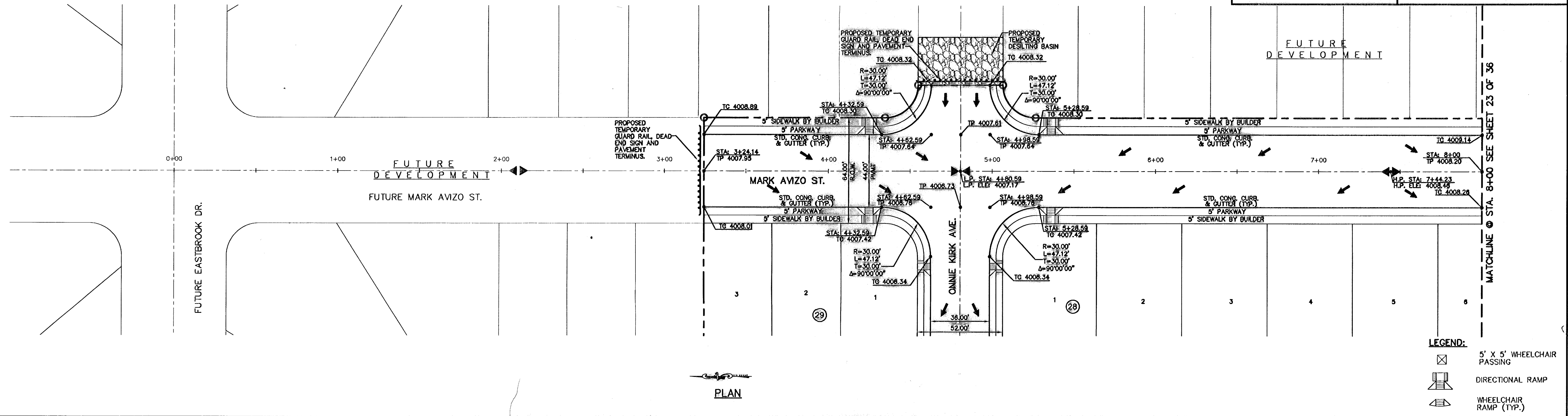
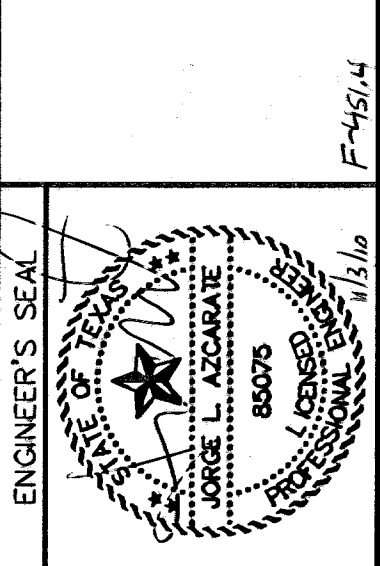
**UTILITY LOCATOR SERVICES**

EL PASO ELECTRIC COMPANY	(915) 543-5720
EL PASO ENERGY CORPORATION	(915) 498-5244
EL PASO WATER UTILITIES	(915) 594-5527
MCI SURVEILLANCE	(800) MCI-WORK
PARAGON CABLE	(915) 772-1123
TEXAS GAS CO.	(915) 544-8300
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A&T	(800) 852-3788
U.S. SPRINT TELECOMM	(800) 521-0579

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 1-800-344-8377  
 FOR FIELD LOCATING EXISTING UTILITIES

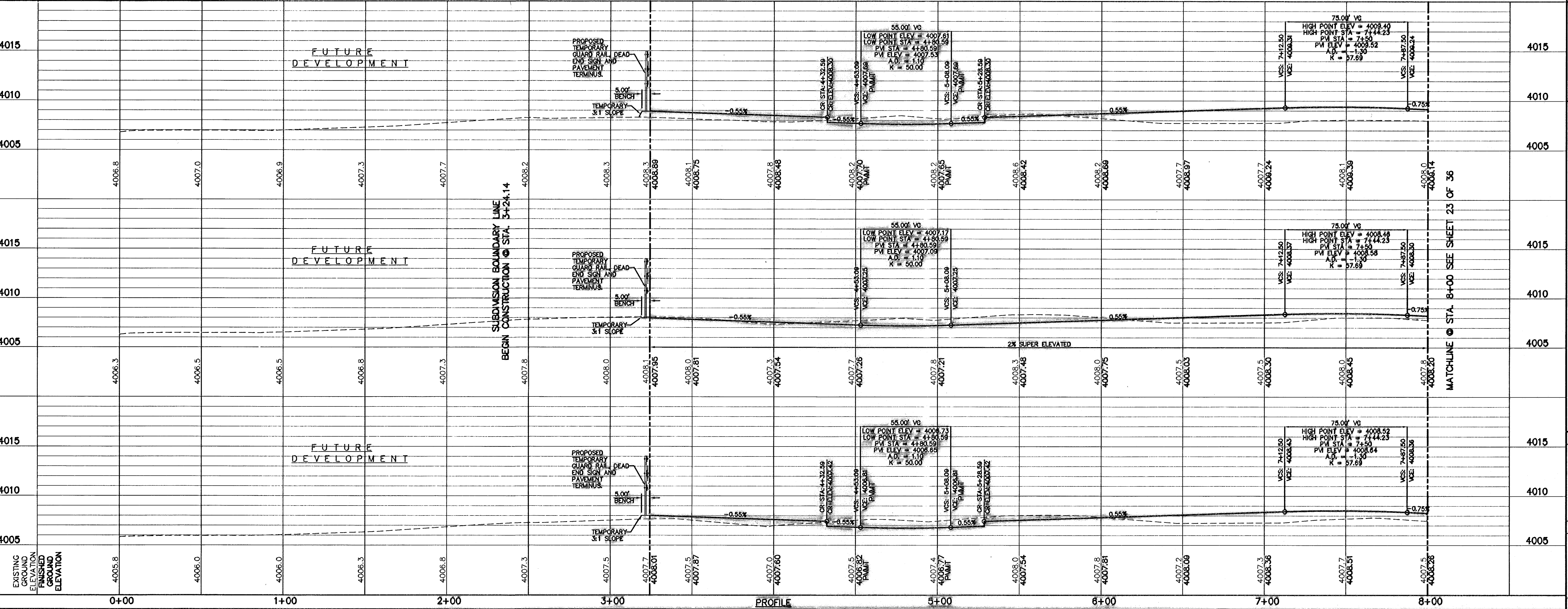
REFERENCES - BENCHMARKS  
 CITY MONUMENT AT POINT OF CURVE  
 DISTANCE FROM POINT OF BEGINNING TO BENCHMARK  
 SOUTHERLY RIGHT OF WAY LINE OF MONTANA AVENUE CITY DATUM  
 ELEVATION.....4005.40  
 DATE  
 REVISIONS  
 BY

**CEA GROUP**  
 engineers • architects • planners  
 Casuarina Center @ Transmountain  
 7172 Woodloch Blvd., Ste. F, El Paso, TX 79904  
 Phone: (915) 747-1100 Fax: (915) 747-1101  
 Website: www.ceagroup.com



**PLAN**

- LEGEND:**
- 5' X 5' WHEELCHAIR PASSING
  - DIRECTIONAL RAMP
  - WHEELCHAIR RAMP (TYP.)



**PROFILE**

SCALE: 1" = 30'  
 Horizontal  
 1" = 5'  
 Vertical  
 Contour Interval: 1' / A  
 DATE: MARCH 2009  
 DESIGN BY: J.L.A.  
 DRAWN BY: J.L.A.  
 CHKD. BY: J.L.A.  
 APPVD. BY: J.L.A.  
 JOB No. 2000-100 LD

PROJECT TITLE  
**TRES SUEÑOS UNIT SIX  
 SUBDIVISION IMPROVEMENTS**

SHEET TITLE  
**MARK AVIZO ST.  
 PLAN & PROFILE  
 FROM STA. 3+24.14  
 TO STA. 8+00**

SHEET NO.  
**22**

OF 36



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11/03/10

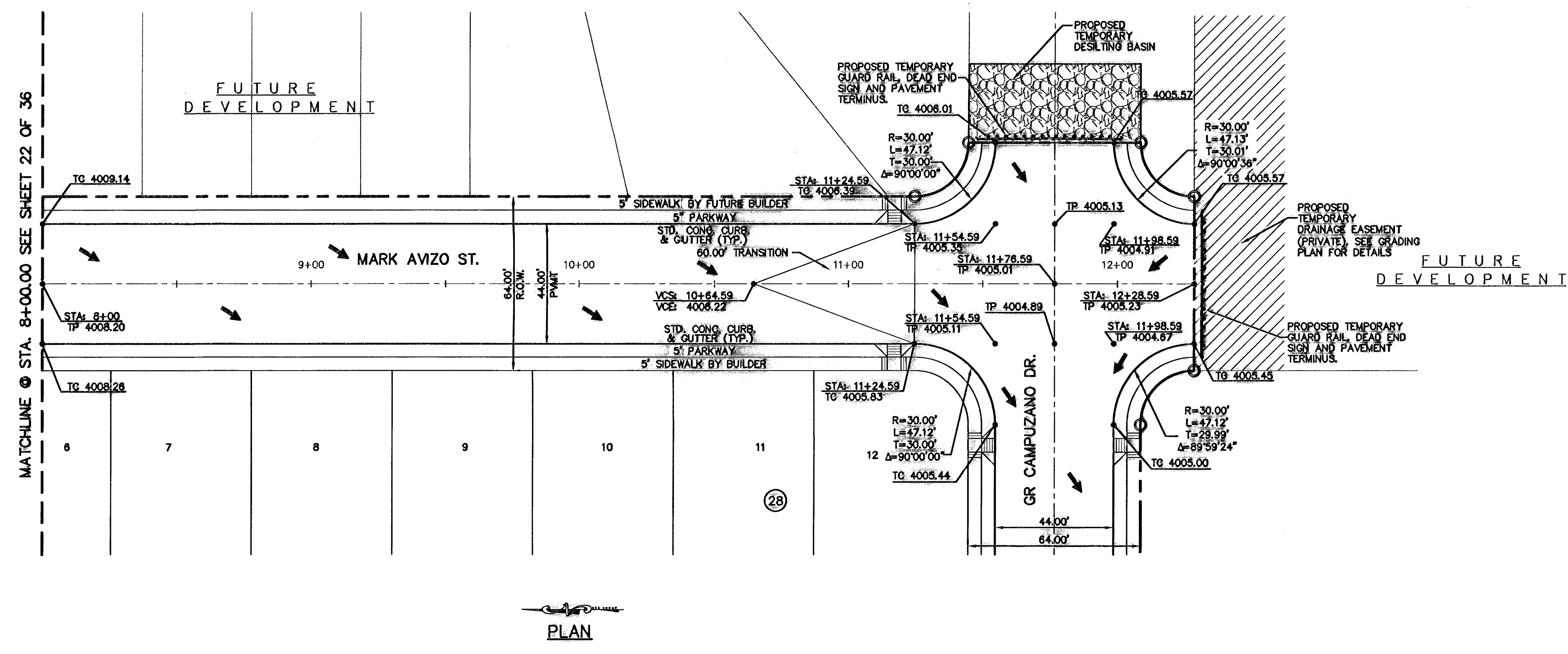
UTILITY LOCATOR SERVICES	
EL PASO ELECTRIC COMPANY	(915) 543-5720
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EL PASO WATER UTILITIES	(915) 594-5527
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AT&T	(800) 852-3788
U.S. SPRINT TELECOMM	(800) 521-0579

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1-800-DIG-TESS  
1-800-344-8377  
FOR FIELD LOCATING EXISTING UTILITIES

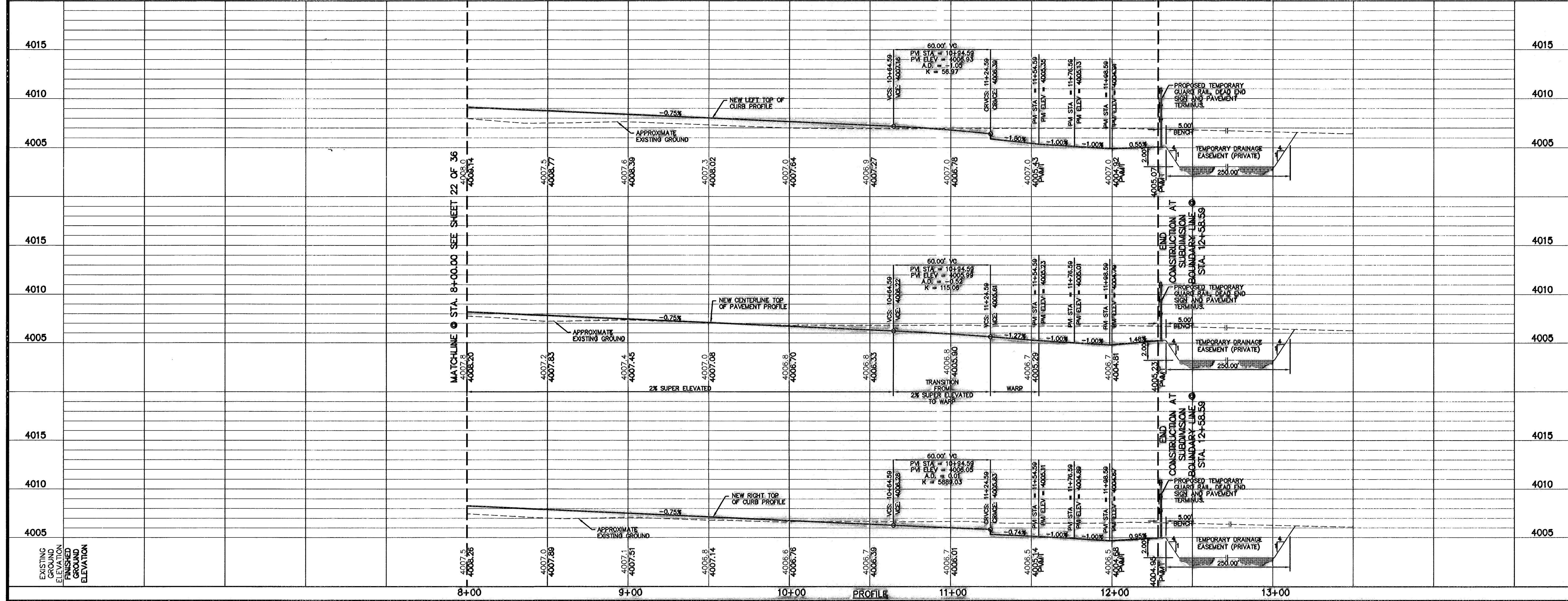
DATE	REVISIONS	BY

REFERENCES - BENCHMARKS  
CITY MONUMENT AT POINT OF CURVE  
CENTERLINE RICH BEEM BLVD., S08°43'31" E A  
DISTANCE OF 487.58 FEET FROM THE  
SOUTHERLY RIGHT OF WAY LINE OF MONTANA  
AVENUE CITY DATUM  
ELEVATION: 4005.40

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engineers • architects • planners  
Custodian Center @ Transmountain  
4772 Woodrow Bean, Ste. F El Paso, TX 78924  
Office: 915.544.5222 Fax: 915.544.5220 www.ceagroup.net



- LEGEND:**
- 5' x 5' WHEELCHAIR PASSING
  - DIRECTIONAL RAMP
  - WHEELCHAIR RAMP (TYP.)



ENGINEER'S SEAL

SCALE: 1"=30'  
Horizontal  
Vertical Interval: 1"=5'  
Contour Interval: N/A  
DATE: MARCH 2009  
DESIGN BY: D.N.  
DRAWN BY: J.L.A.  
CHKD. BY: J.L.A.  
APPROV. BY: J.L.A.  
JOB No. 2000-100 LD

PROJECT TITLE  
**TRES SUEÑOS UNIT SIX  
SUBDIVISION IMPROVEMENTS**

SHEET TITLE  
MARK AMZO ST.  
PLAN & PROFILE  
FROM STA. 8+00  
TO STA. 12+28.59

SHEET NO.  
**23**

OF 36

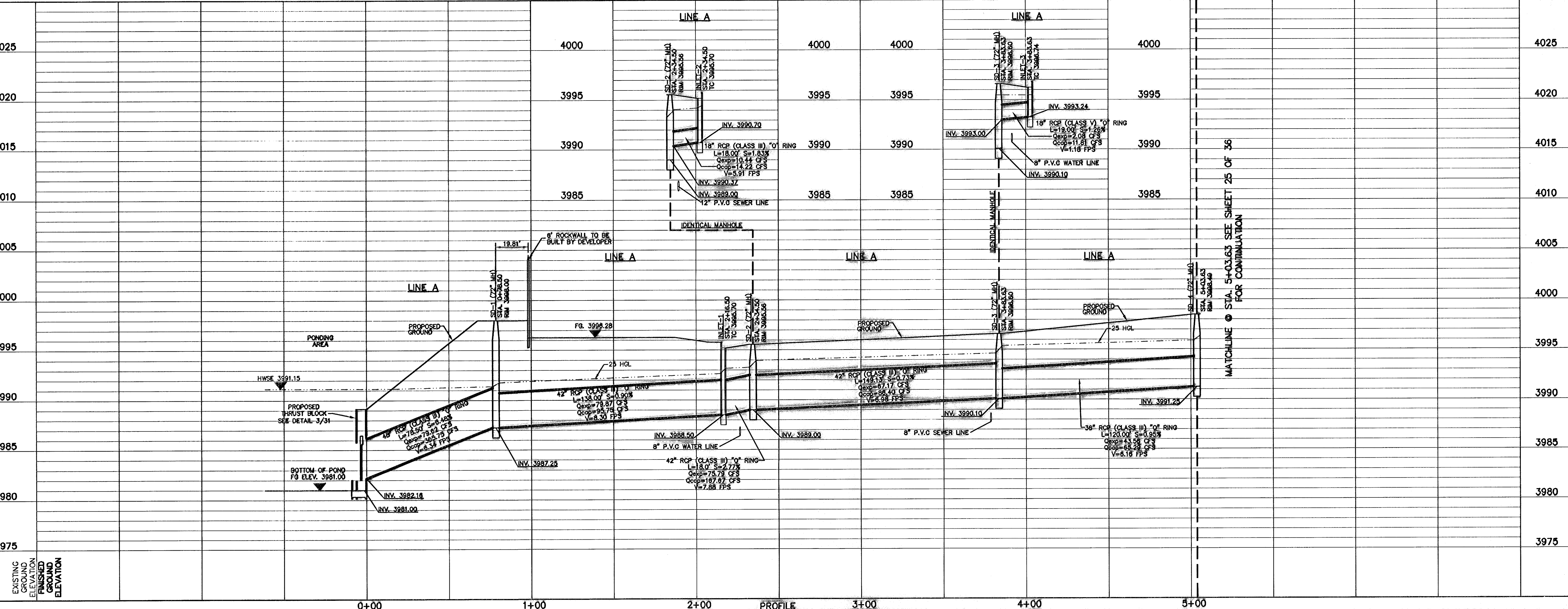
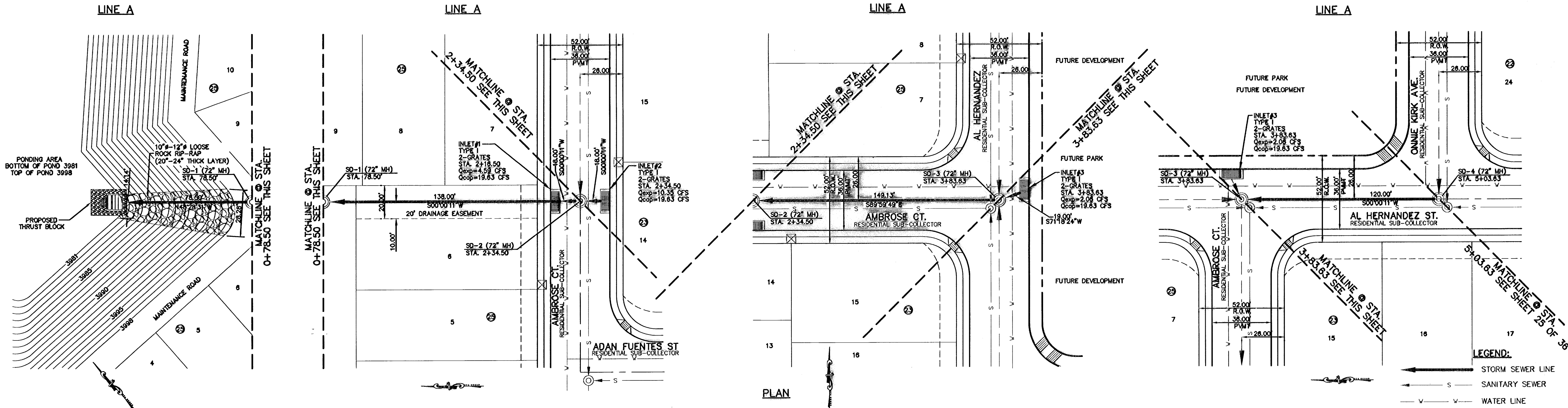
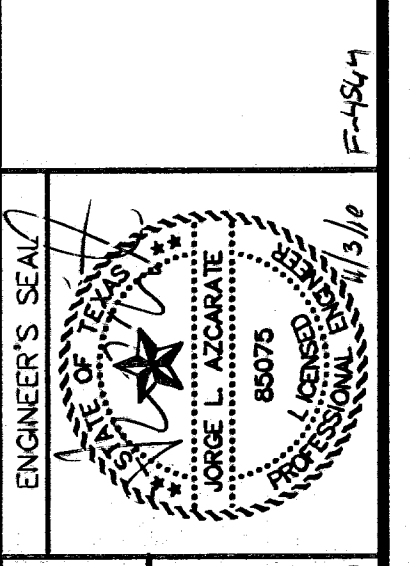
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 11/03/10

**UTILITY LOCATOR SERVICES**  
 EL PASO ELECTRIC COMPANY (915) 543-5720  
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 MCI SURVEILLANCE (800) MCI-WORK  
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**BEFORE YOU DIG**  
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 1-800-DIG-TESS  
 1-800-344-8377  
 FOR FIELD LOCATING EXISTING UTILITIES

REFERENCES - BENCHMARKS  
 CITY MONUMENT AT POINT OF CURVE  
 CENTERLINE OF CURVE BEING LOCATED  
 DISTANCE OF 467.85 FEET FROM THE  
 SOUTHERLY RIGHT OF WAY LINE OF MONTANA  
 AVENUE CITY DATUM  
 ELEVATION: .....4005.40  
 DATE REVISIONS BY

**CEA GROUP**  
 engineers • architects • planners  
 Casador Center @ Transmountain  
 4712 Woodrow Wilson, Ste. 101, El Paso, TX 79962  
 Office: 915.762.1232 Fax: 915.762.1233 www.ceagroup.com



SCALE  
 Horizontal: 1"=30'  
 Vertical: 1"=5'  
 Contour Interval:  
 DATE: MARCH 2009  
 DESIGN BY: J.C.  
 DRAWN BY: D.N.  
 CHECKED BY: J.L.A.  
 APP'D. BY: J.L.A.  
 JOB No.: 2000-100.LD

PROJECT TITLE  
**TRES SUEÑOS UNIT SIX**  
**SUBDIVISION IMPROVEMENTS**  
 SHEET TITLE  
**LINE A**  
**PLAN & PROFILE**  
**FROM STA. 0+00 TO**  
**STA. 5+03.63**  
 SHEET NO.  
**24**  
 OF 36

**RECORD DRAWINGS**  
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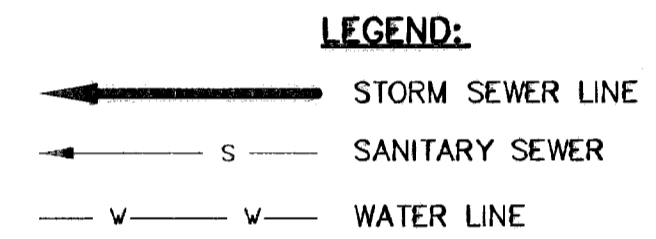
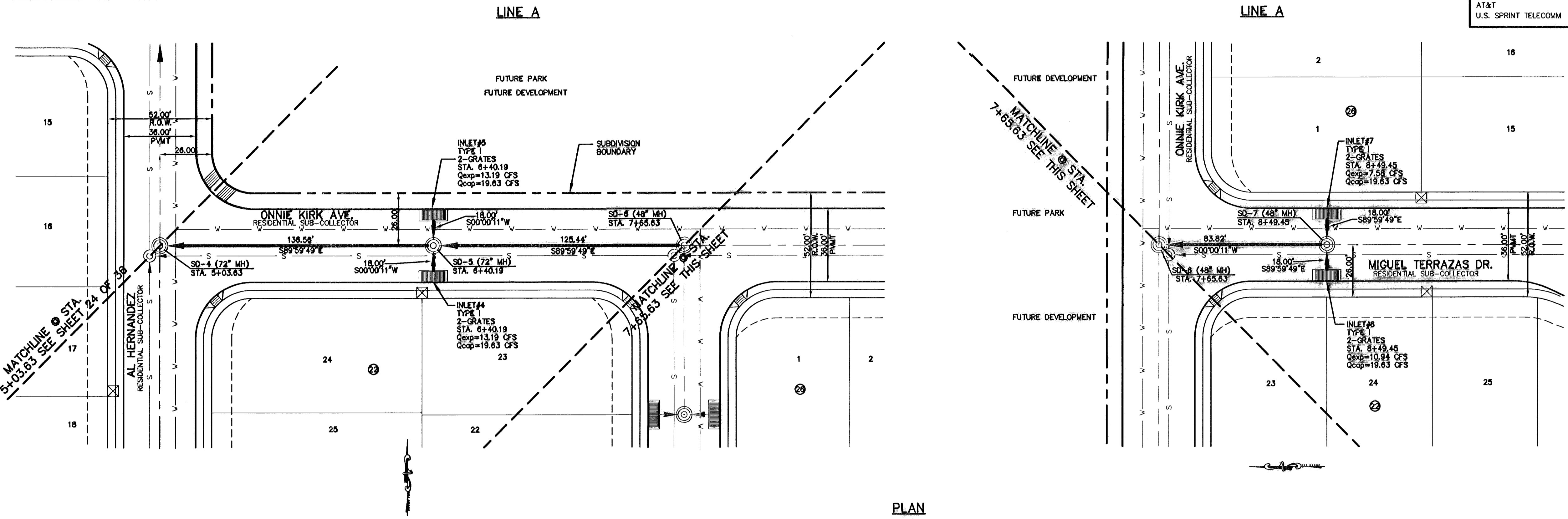
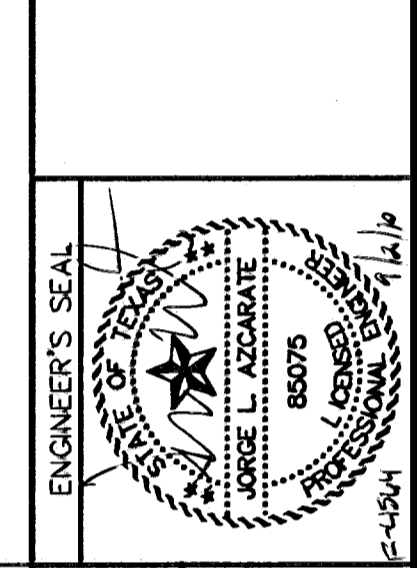
UTILITY LOCATOR SERVICES	
EL PASO ELECTRIC COMPANY	(915) 543-5720
EL PASO ENERGY CORPORATION	(915) 496-5244
EL PASO WATER UTILITIES	(915) 594-5527
MCI SURVEILLANCE	(800) MCI-WORK
PARAGON CABLE	(915) 772-1123
TEXAS GAS CO.	(915) 544-6300
SOUTHWESTERN BELL TELEPHONE	(800) 828-5127
AT&T	(800) 852-3786
U.S. SPRINT TELECOMM	(800) 521-0579

**WARNING!**  
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**1-800-344-8377**  
 FOR FIELD LOCATING EXISTING UTILITIES

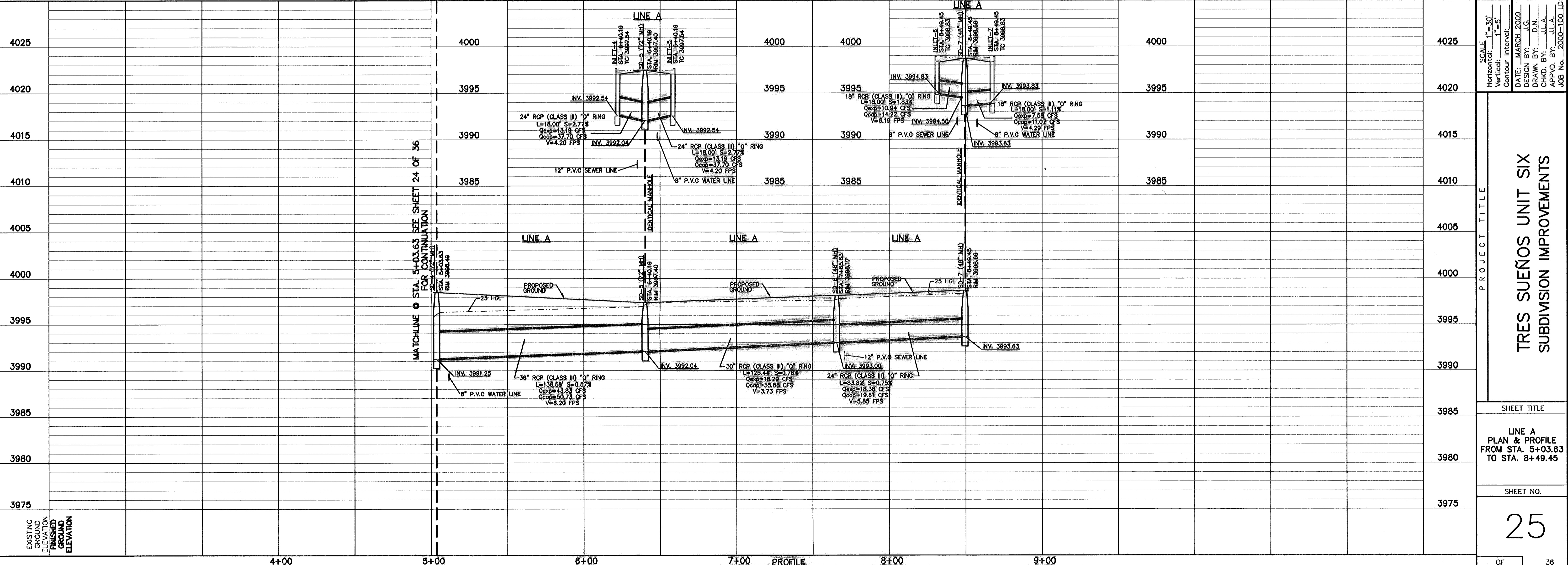
DATE	REVISIONS	BY

REFERENCES - BENCHMARKS  
 CITY MONUMENT AT POINT OF CURVE  
 BURNING RICKS SUB-SECTION 31' E A  
 DISTRICT OF SOUTHERLY RIGHT OF WAY LINE OF MONTANA  
 AVENUE CITY DATUM  
 ELEVATION.....4005.40

**cea**  
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 Eastern Center @ Transmountain  
 4712 Woodrow Bean, Ste. F, El Paso, TX 79904  
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PLAN



SCALE  
 Horizontal: 1"=30'  
 Vertical: 1"=5'  
 Contour Interval: 1'  
 DATE: MARCH 2009  
 DESIGN BY: J.G.  
 DRAWN BY: D.N.  
 CHKD. BY: J.L.A.  
 APPVD. BY: J.L.A.  
 JOB No. 2000-100.LD

PROJECT TITLE  
**TRES SUEÑOS UNIT SIX  
 SUBDIVISION IMPROVEMENTS**

SHEET TITLE  
**LINE A  
 PLAN & PROFILE  
 FROM STA. 5+03.63  
 TO STA. 8+49.45**

SHEET NO.  
**25**

**RECORD DRAWINGS**

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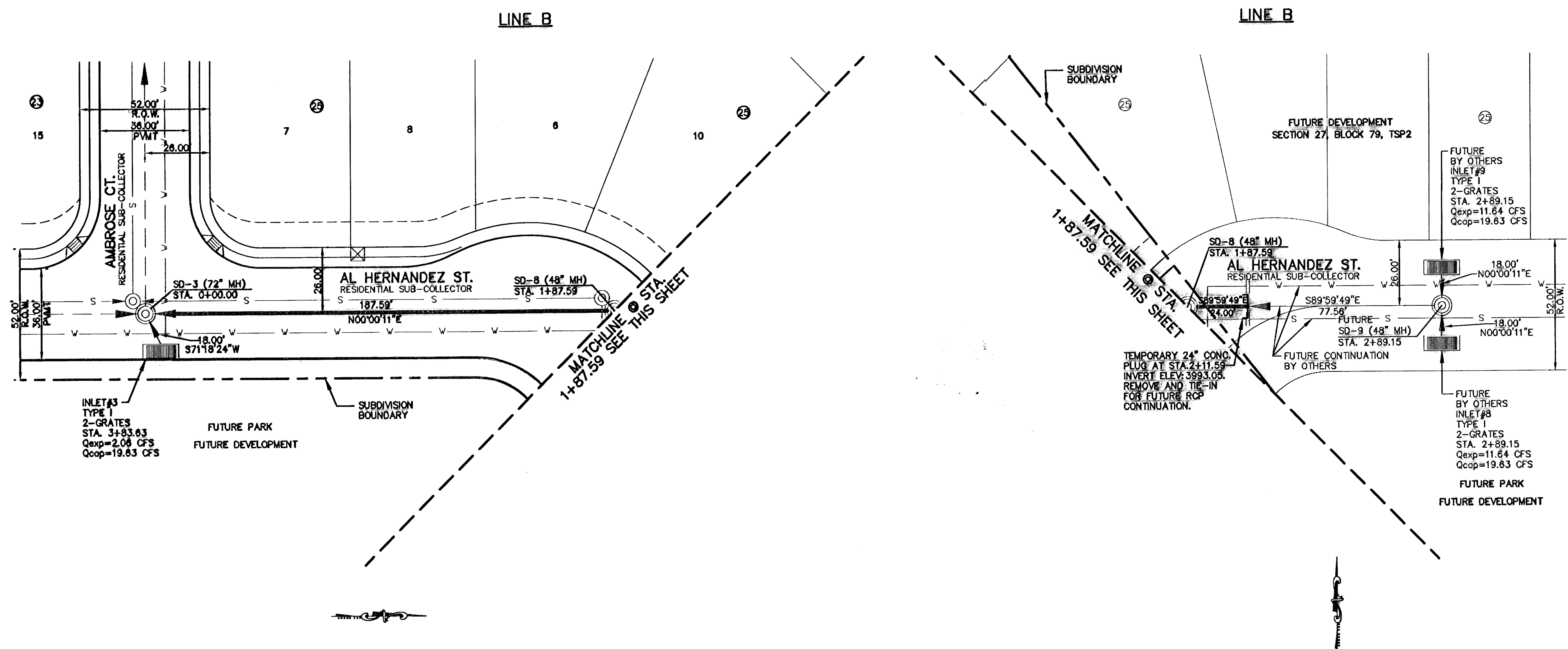
**UTILITY LOCATOR SERVICES**

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SOUTHWESTERN BELL TELEPHONE	(800) 828-5127
AT&T	(800) 852-3788
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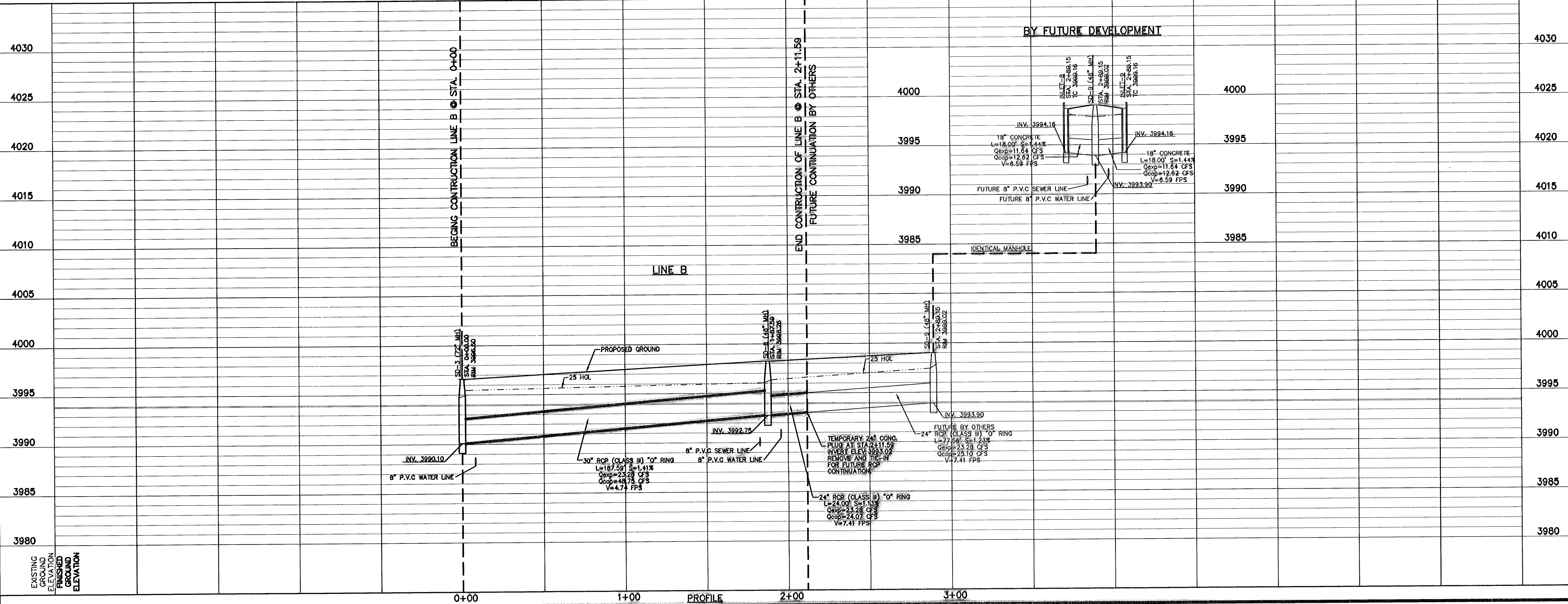
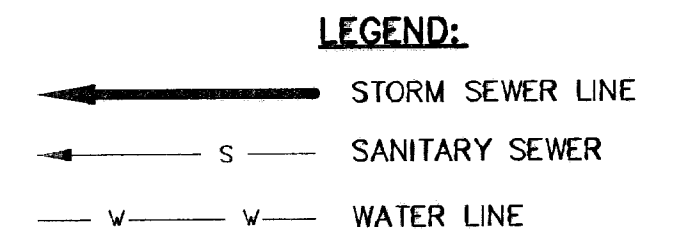
**WARNING I BEFORE YOU DIG**

CALL  
1-800-DIG-TESS  
1-800-344-8377

FOR FIELD LOCATING EXISTING UTILITIES



**PLAN**



**PROFILE**

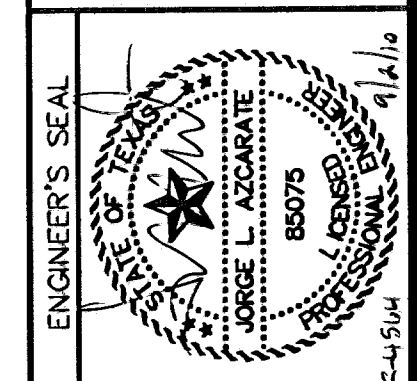
**REFERENCES - BENCHMARKS**

CITY MONUMENT AT POINT OF CURVE	
CENTERLINE RICH BEEM BLVD., S08°43'31" E	4
DISTANCE OF 487.58 FEET FROM THE SOUTHERLY RIGHT OF WAY LINE OF MONTANA AVENUE CITY DATUM	4005.40
ELEVATION	
DATE	
REVISIONS	
BY	

**osa**

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10000 E. Southwestern Blvd., Suite 100  
Dallas, TX 75246-1000 Tel: 972.544.4233 www.osagroup.com



**SCALE**

Horizontal: 1"=30'  
Vertical: 1"=5'

Contour Interval: \_\_\_\_\_

DATE: MARCH 2009  
DESIGN BY: J.G.  
DRAWN BY: D.N.  
CHKD. BY: J.L.A.  
APPVD. BY: J.L.A.  
JOB No. 2000-100.LD

**PROJECT TITLE**

**TRES SUEÑOS UNIT SIX  
SUBDIVISION IMPROVEMENTS**

**SHEET TITLE**

**LINE B  
PLAN & PROFILE  
FROM STA. 0+00 TO  
STA. 2+11.59**

**SHEET NO.**

**26**

OF 36

**RECORD DRAWINGS**  
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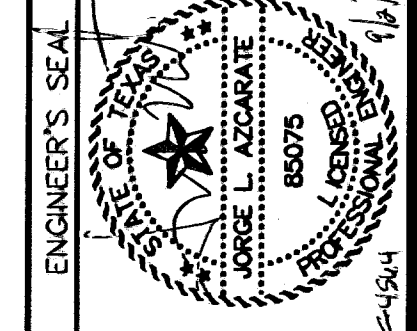
REFERENCES - BENCHMARKS

CITY MONUMENT AT POINT OF CURVE  
 CENTERLINE RIGHT-BEHEM BELVD. SDB#331 E A  
 DOWNTOWN EL PASO, TEXAS  
 SOUTHERLY RIGHT-OF-WAY LINE OF MONTANA  
 AVENUE CITY DATUM  
 ELEVATION.....4005.40

DATE \_\_\_\_\_ BY \_\_\_\_\_

REVISIONS

**CSA GROUP**  
 engineers • architects • planners  
 Customer Center @ Transmountain  
 712 West 10th Street, Suite F El Paso, TX 79904  
 (915) 784-4322 Fax: (915) 784-4323 www.csa-group.com



SCALE: AS SHOWN

Vertical: N/A  
 Horizontal: N/A

DATE: MARCH 2009  
 DESIGN BY: JLG  
 DRAWN BY: D.N.  
 CHKD. BY: J.L.A.  
 APPD. BY: J.L.A.

JOB No. 2000-100 LD

PROJECT TITLE

**TRES SUEÑOS UNIT SIX  
 SUBDIVISION IMPROVEMENTS**

SHEET TITLE

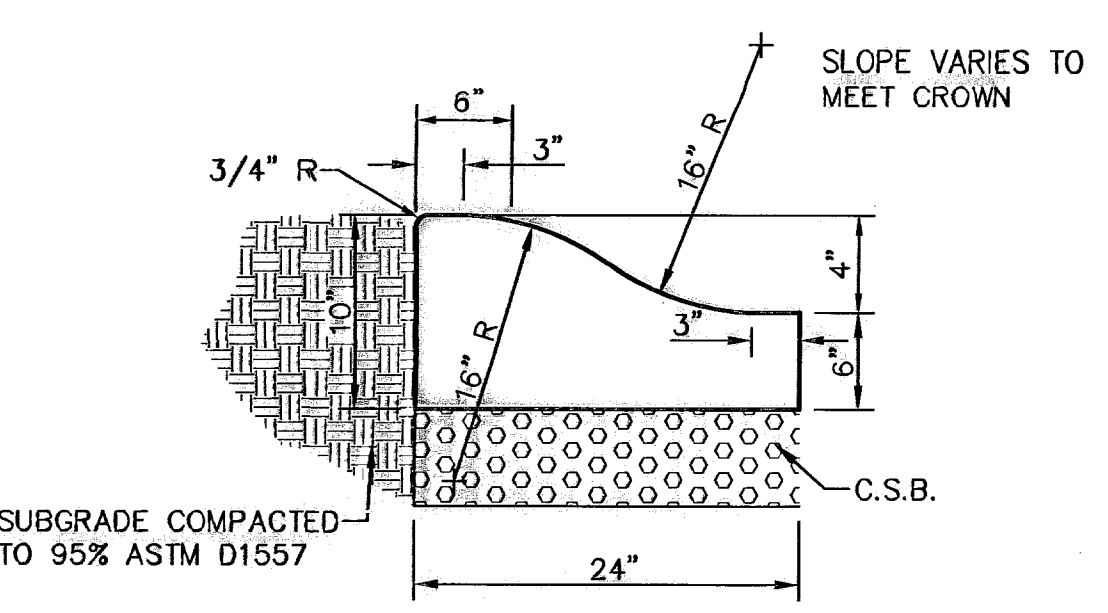
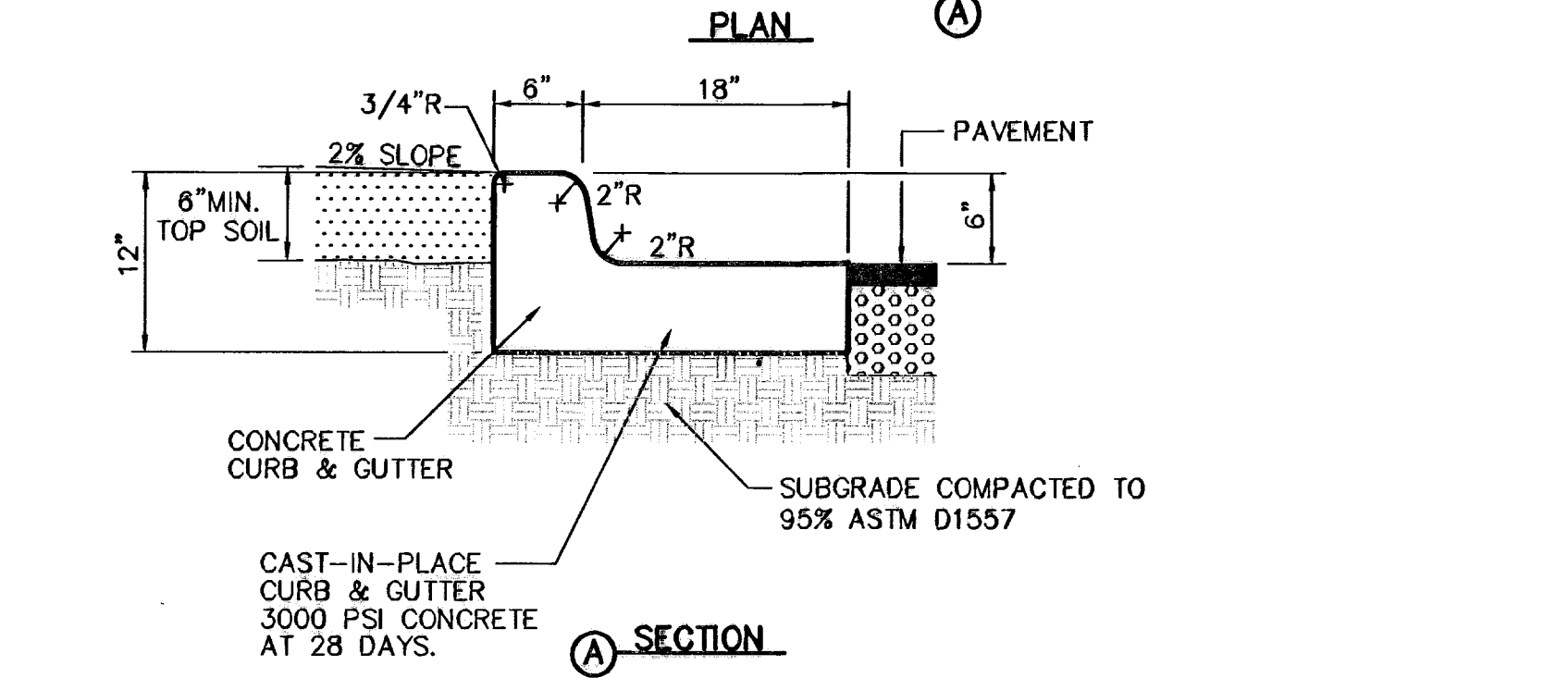
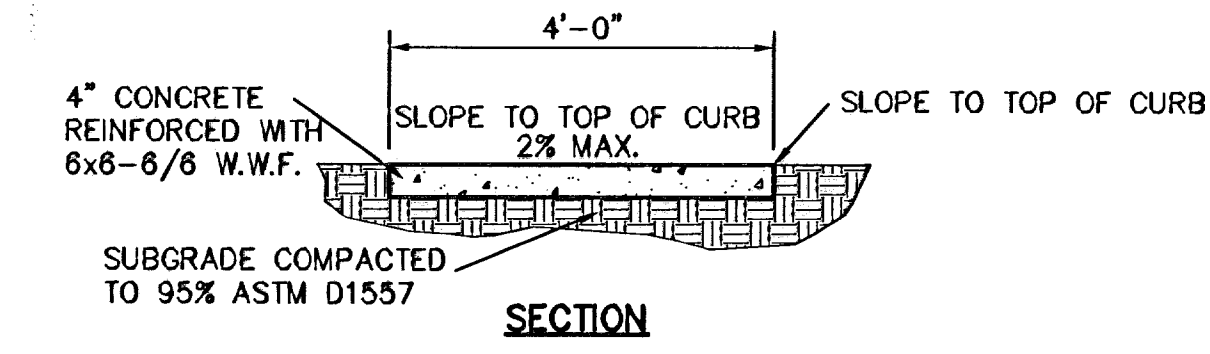
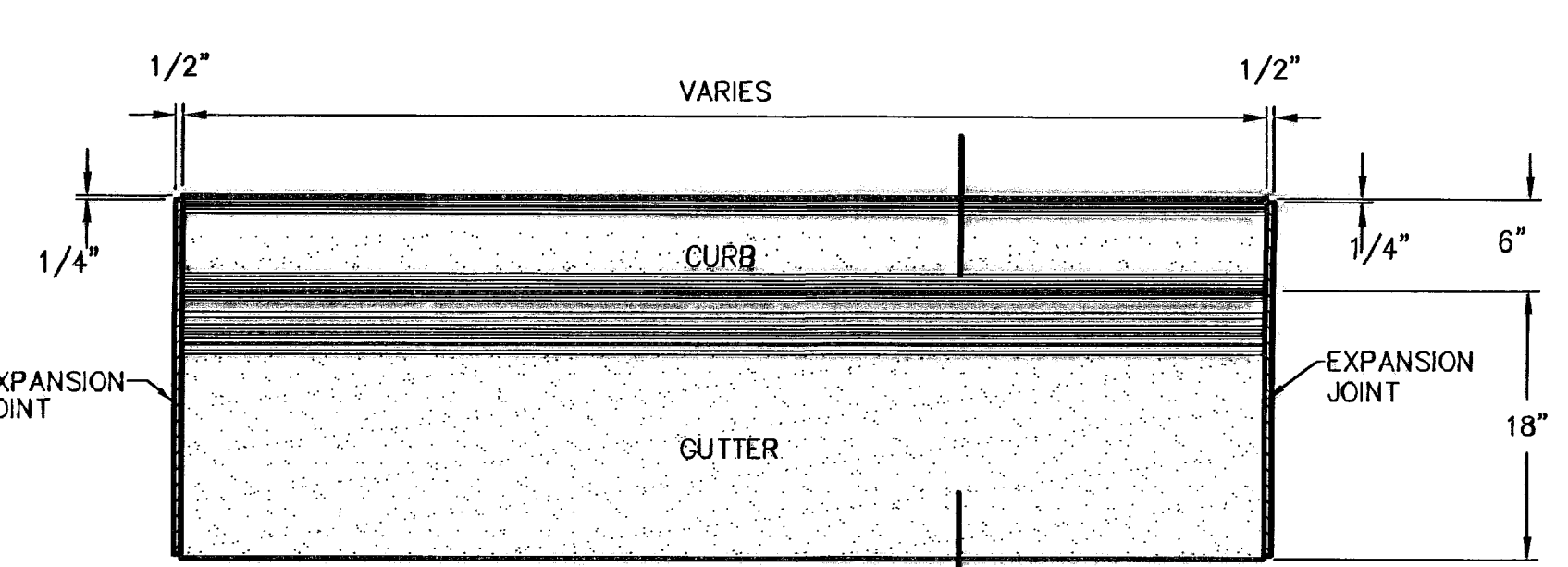
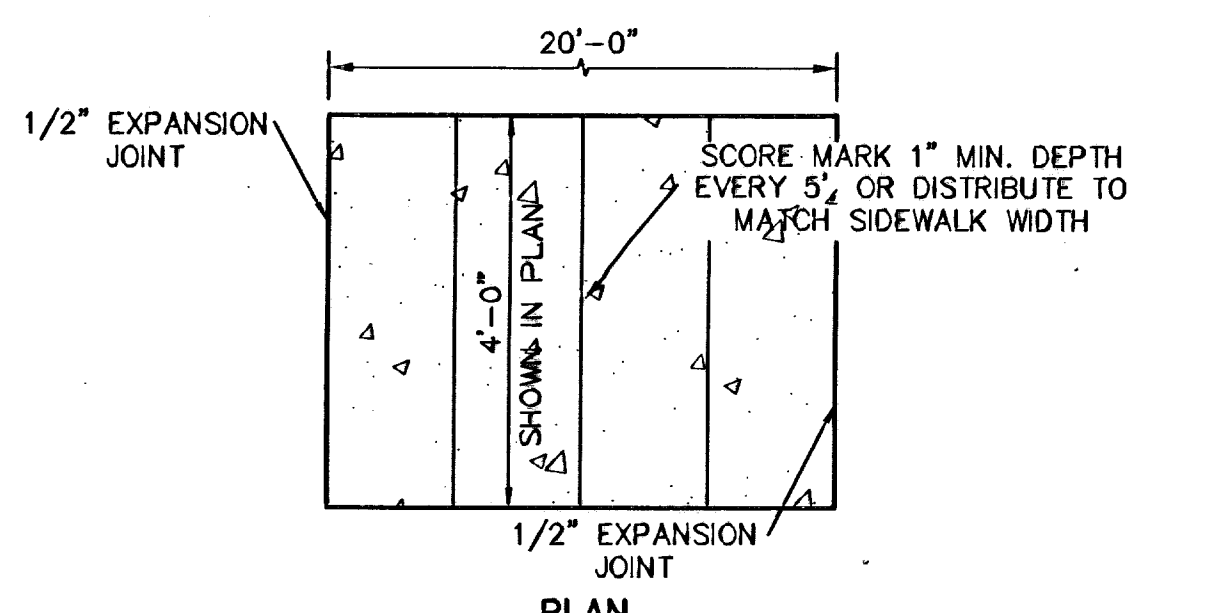
STANDARD DETAILS

(SHEET 1 OF 3)

SHEET NO.

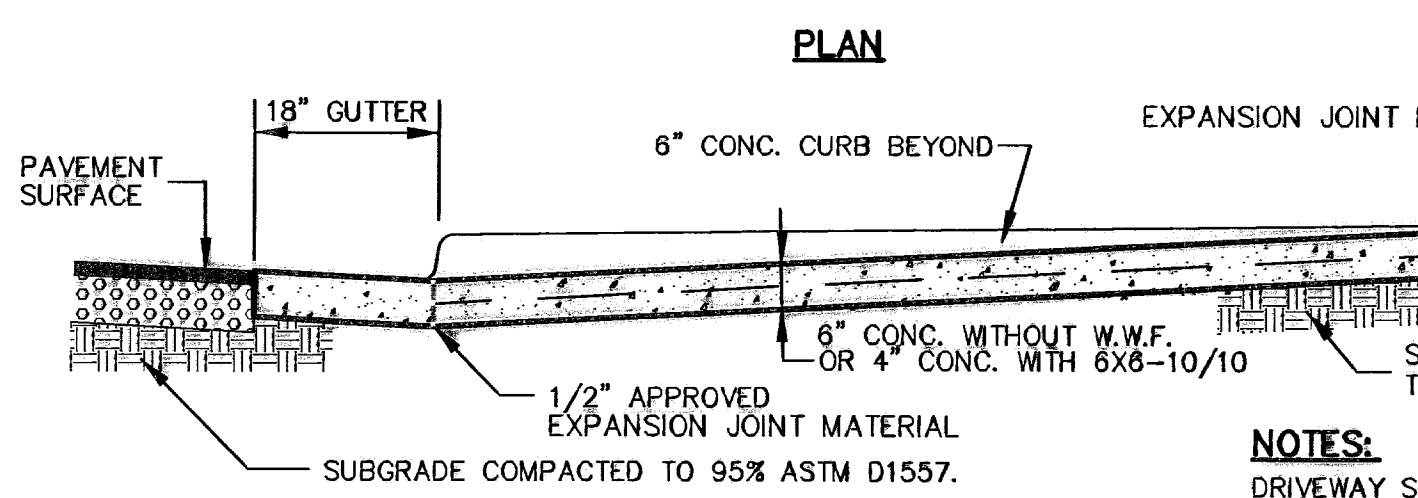
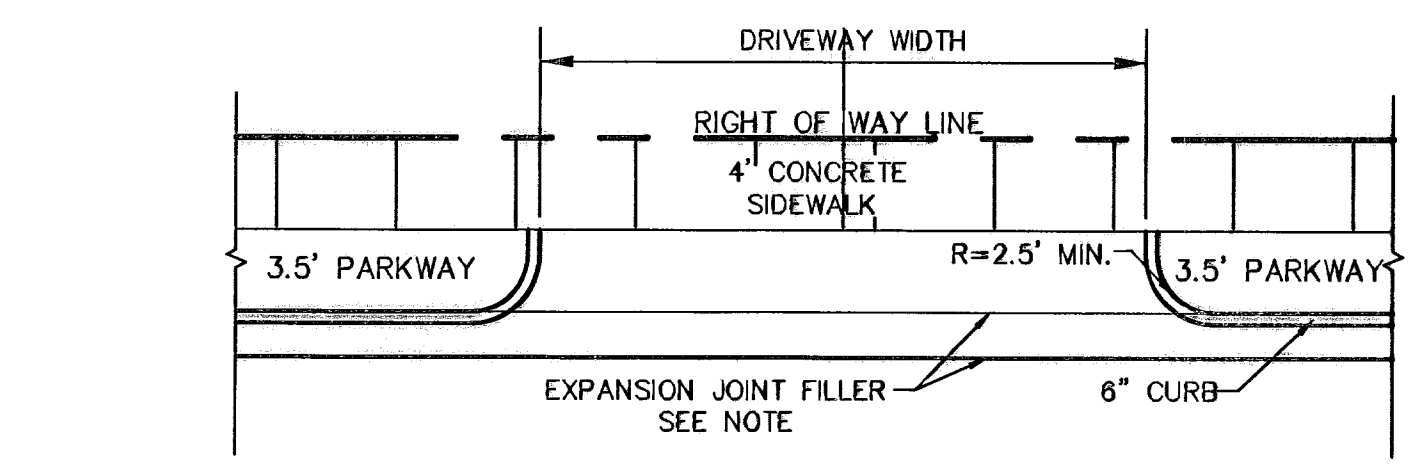
27

OF 36



1. CONCRETE TO BE 3000 PSI MIN.
2. DUMMY JOINTS REQUIRED AT 10' O.C. FOR HEADERS AND 5' O.C. FOR SIDEWALK
3. EXPANSION MATERIAL REQUIRED AT CURB RETURNS WITH 1/2\" PREMOLED ASPHALT IMPREGNATED EXPANSION MATERIAL OR EQUAL.
4. EXPANSION JOINTS REQUIRED AT 50' O.C. WHEN FORMING FOR HEADERS.
5. EXPANSION JOINTS REQUIRED FOR SIDEWALK AT 20' O.C.
6. \* FOR CUL-DE-SAC ONLY.

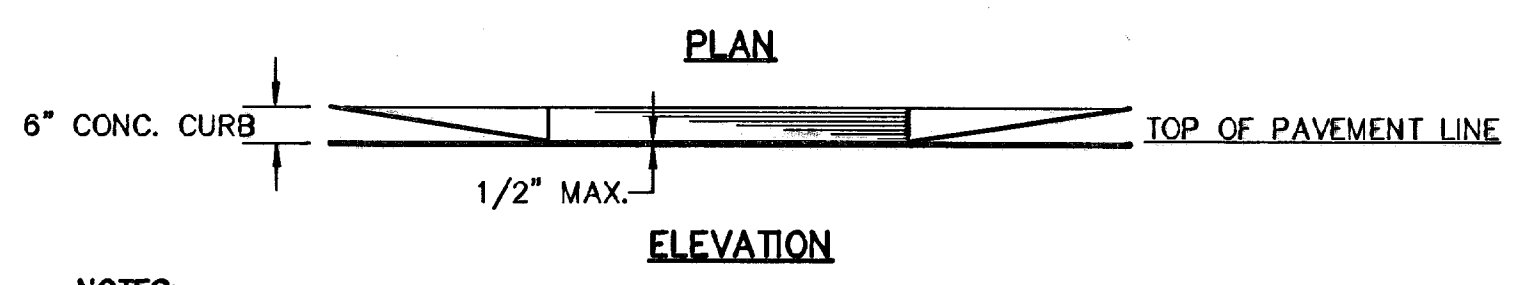
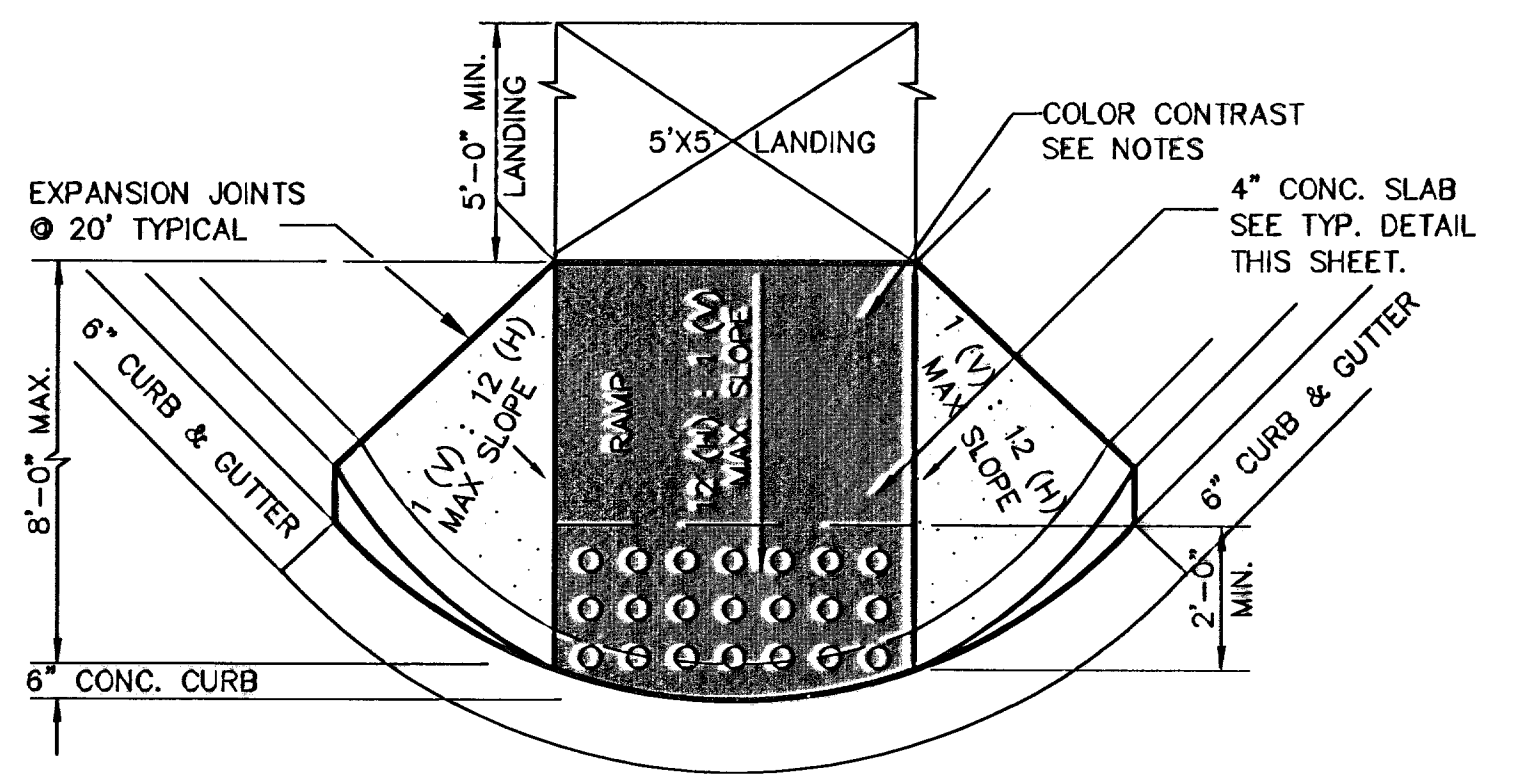
**3 4\" CONCRETE ROLLED CURB DETAIL**  
 SCALE: 1\"=1'-0\"



**4 TYPICAL DRIVEWAY DETAIL**  
 SCALE: NTS

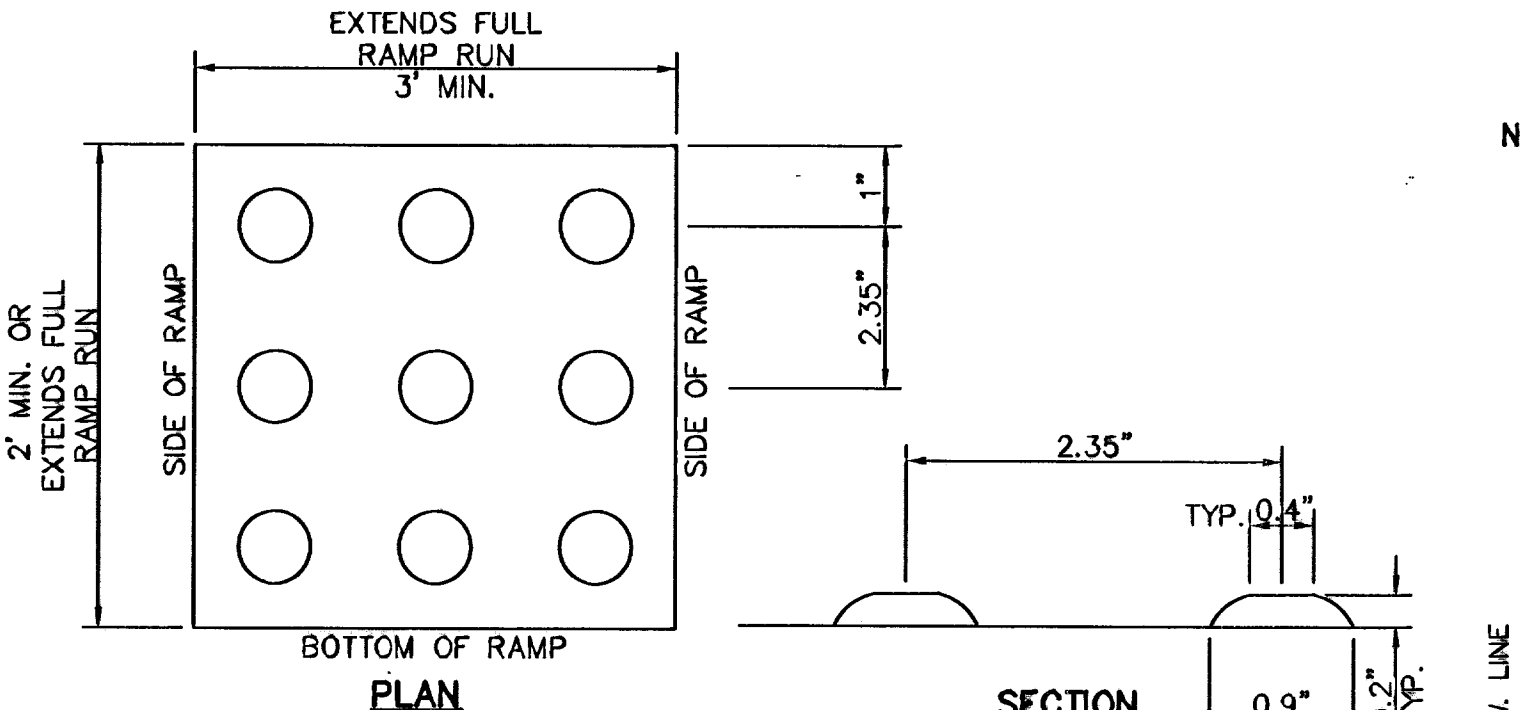
- SIDEWALK NOTES:**
1. CONCRETE SIDEWALK SHALL BE 3,000 P.S.I.
  2. DUMMY JOINTS REQUIRED AT 5' O.C.
  3. EXPANSION JOINTS SHALL BE AT 20' O.C. MAXIMUM. USE 1/2\" PREMOLED BITUMINOUS EXPANSION JOINTS (AASHTO M-33)
  4. EXPANSION JOINT FILLER SHALL BE PLACED WHEREVER SIDEWALK ABUTS ROCK OR MASONRY STRUCTURES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

**1 SECTION-SIDEWALK/SLAB**  
 SCALE: 1/2\"=1'-0\"



- NOTES:**
1. RAMP SHALL HAVE CONTRASTING COLOR TO SIDEWALK. COLOR SHALL BE BRICK RED, OR AS APPROVED BY THE COUNTY OF EL PASO ROAD AND BRIDGE DEPARTMENT.
  2. ALL NEW RAMPS SHALL COMPLY WITH T.A.S. AND A.D.A. REQUIREMENTS. ANY SECTIONS NOT CONFORMING WILL BE REMOVED AT THE CONTRACTORS EXPENSE.

**5 TYPICAL WHEELCHAIR RAMP DETAIL**  
 SCALE: NTS

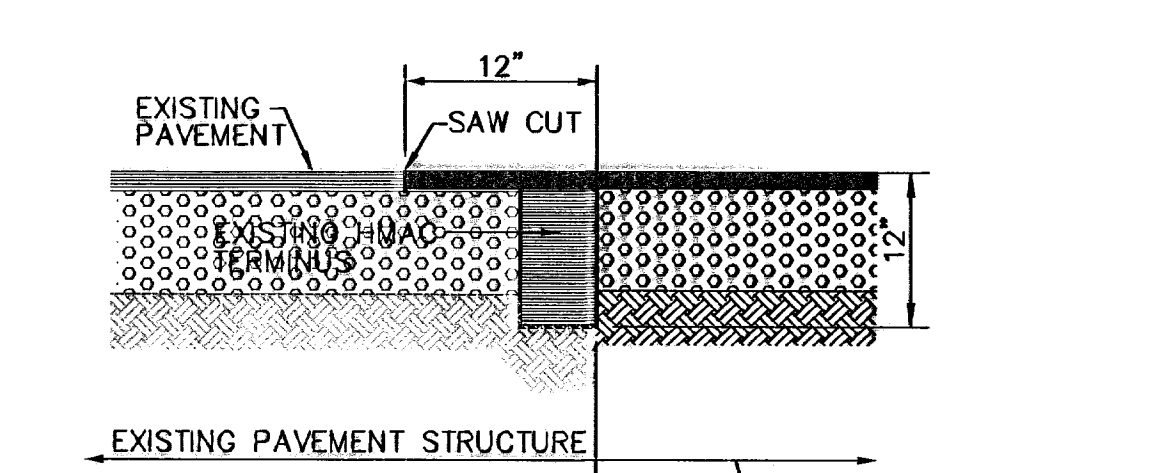


- NOTES:**
1. ALL CONCRETE SHALL BE 3,000 P.S.I. MIN. AT 28 DAYS.
  2. CONCRETE SLABS SHALL BE A MIN. 4\" THICK.
  3. DETECTABLE WARNING SURFACE SHALL CONSIST OF RAISED TRUNCATED DOMES WITH A NOMINAL DIAMETER OF 0.9 IN, A NOMINAL HEIGHT OF 0.2 IN AND A CENTER TO CENTER NOMINAL SPACING OF 2.35 IN, AND SHALL NOT BE STAGGERED. THE SURFACE SHALL HAVE A COLOR CONTRAST VISUALLY WITH ADJOINING SURFACES.
  4. ALL NEW RAMPS SHALL COMPLY WITH T.A.S. AND A.D.A. REQUIREMENTS. ANY SECTIONS NOT CONFORMING WILL BE REMOVED AT THE CONTRACTORS EXPENSE.

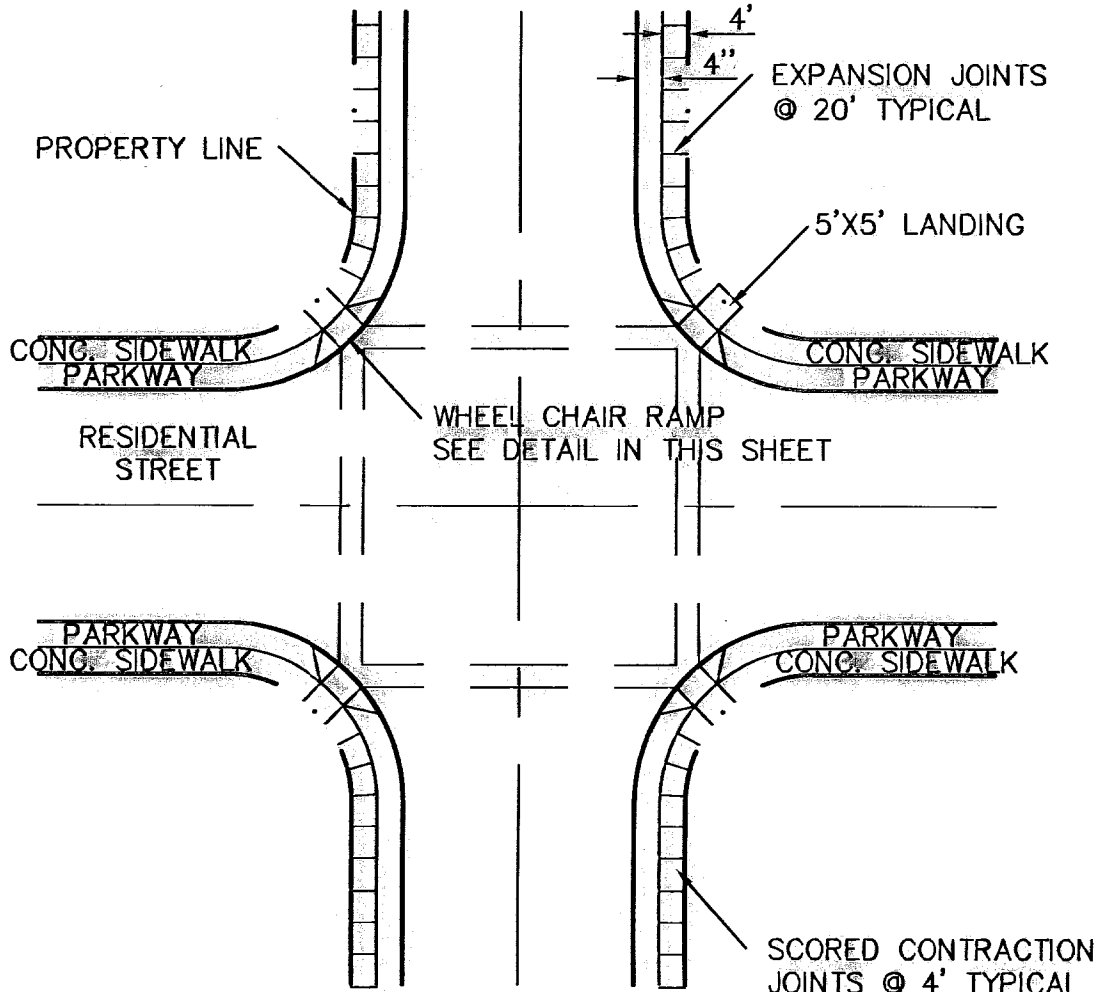
**10 TRUNCATED DOME**  
 SCALE: NTS

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

**2 CURB & GUTTER DETAIL**  
 SCALE: 1\"=1'-0\"

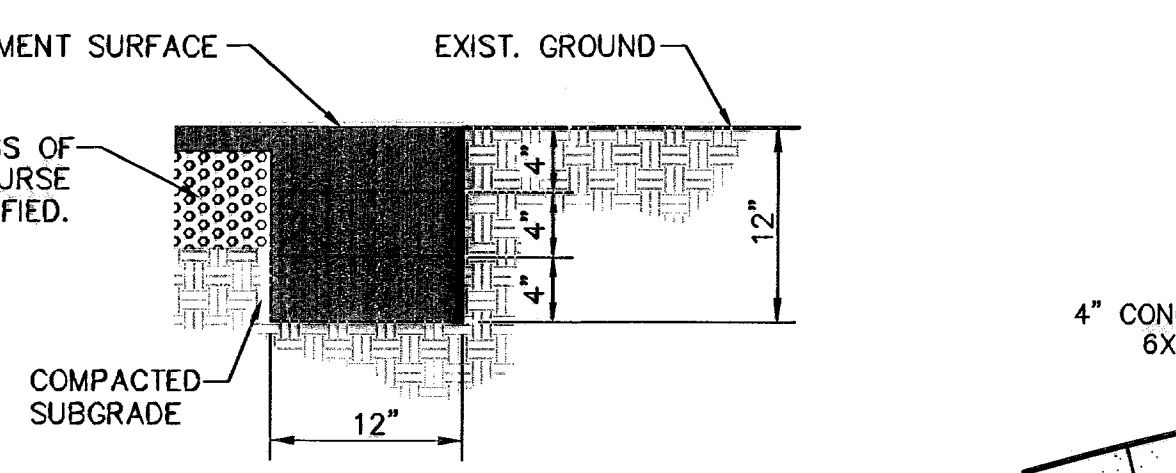


**6 TYPICAL PAVEMENT JOINT SECTION**  
 SCALE: N.T.S.



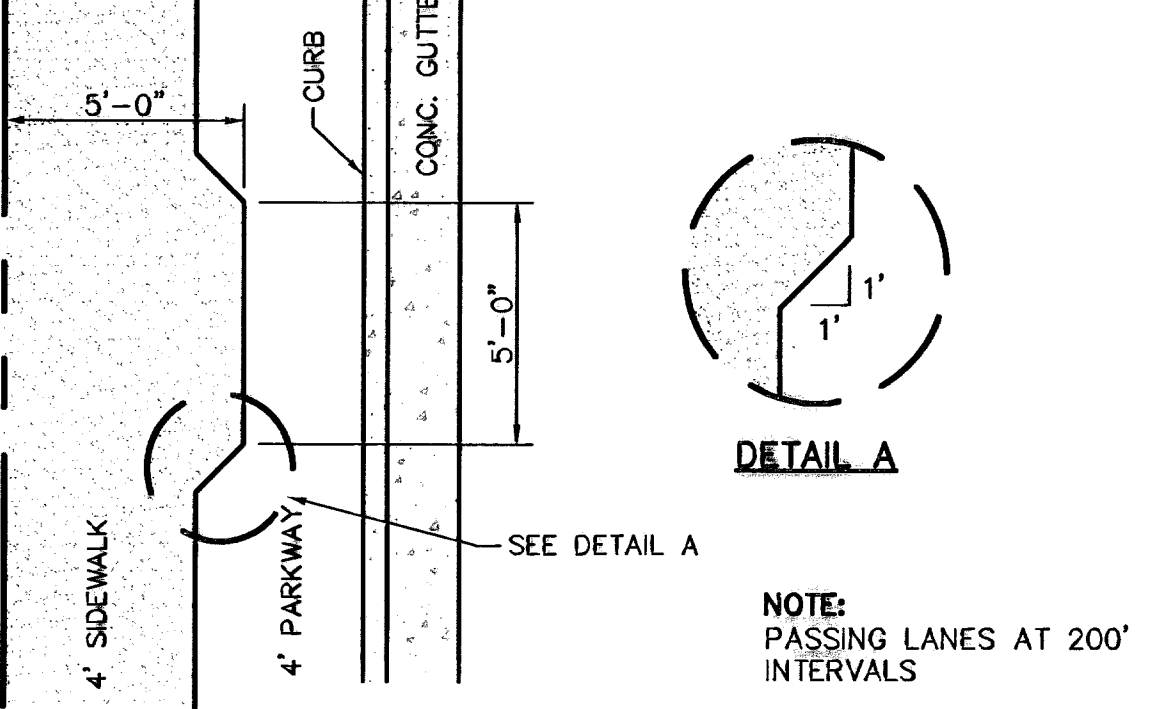
- NOTES:**
1. RAMPS MAY BE PLACED AS SUGGESTED, HOWEVER EXISTING LIGHT POLES, FIRE HYDRANTS, DROP INLETS, ETC., MAY AFFECT PLACEMENT.
  2. THE CONCRETE SURFACE SHALL HAVE A ROUGH, NONSKID TYPE FINISH.
  3. CONSTRUCTION METHODS SHALL CONFORM WITH THE CITY OF EL PASO SPECIFICATIONS.
  4. ALL PARKING AND PAVEMENT MARKINGS SHALL BE IN ACCORDANCE WITH CURRENT CITY OF EL PASO STANDARDS.

**7 WHEELCHAIR RAMP STREET PLAN**  
 SCALE: 1\"=30'

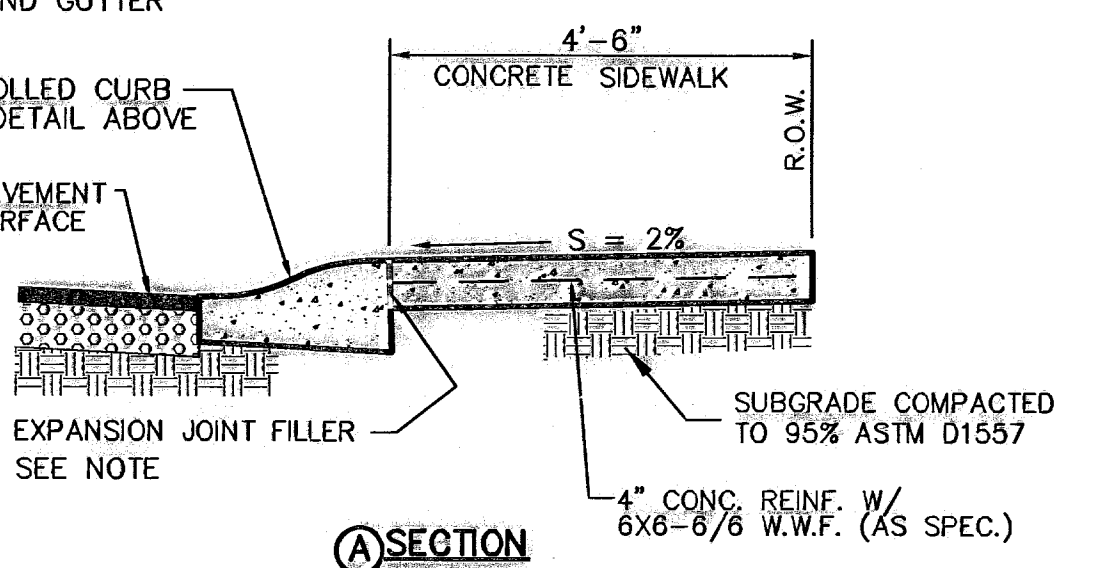
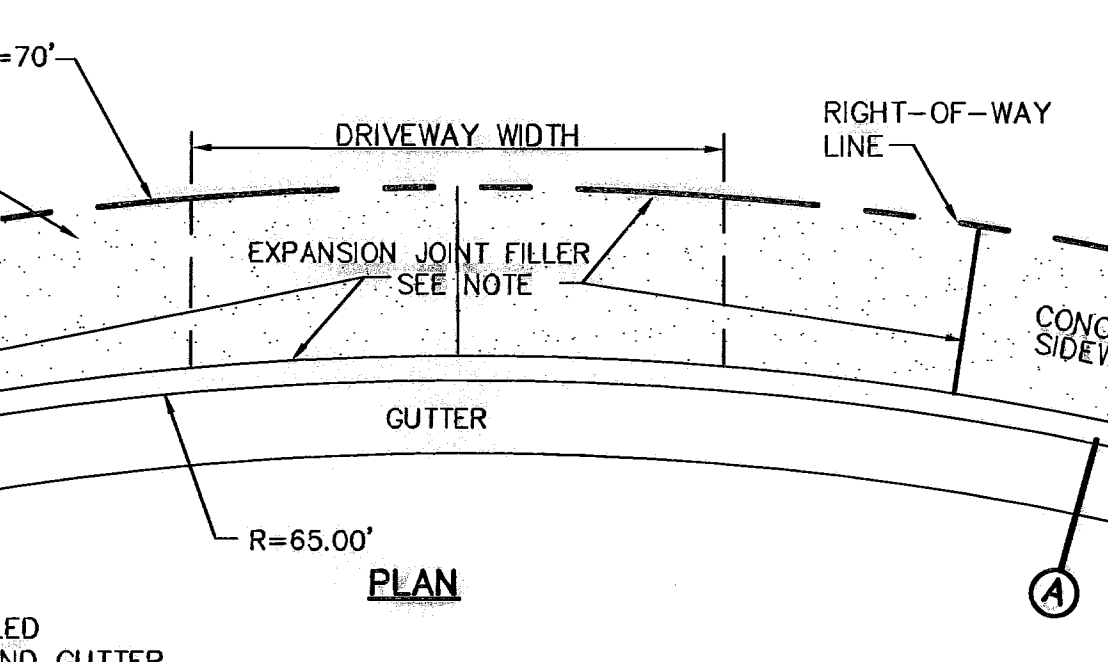


- NOTE:**  
 TERMINUS MUST BE CONSTRUCTED IN 4\" LIFTS. FINAL LIFT MUST BE PLACED WITH FINAL PAVEMENT COURSE.

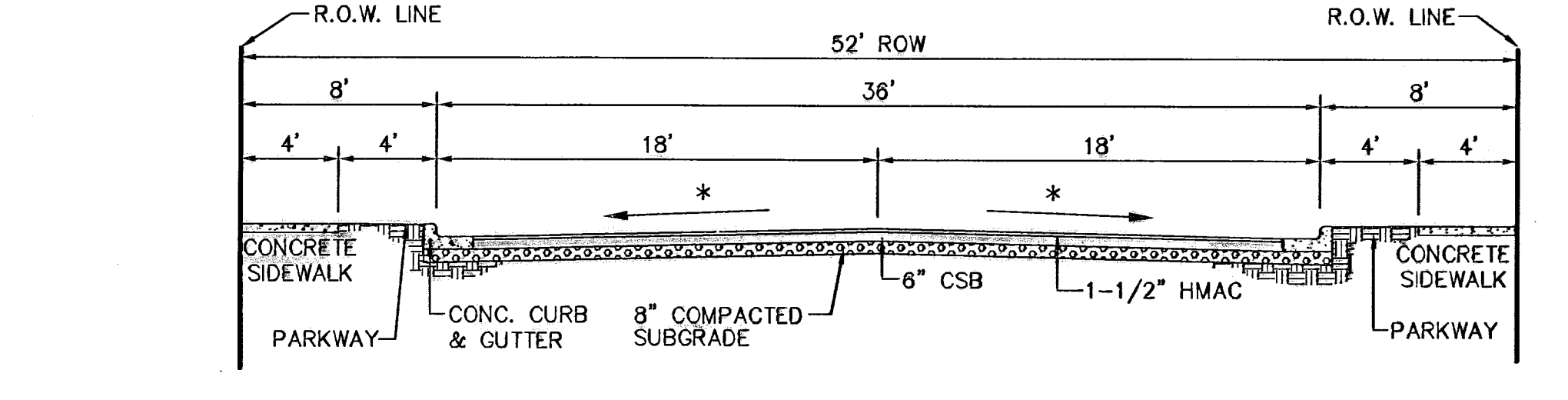
**9 TERMINUS OF STREET**  
 SCALE: 1\"=1'-0\"



**11 ACCESSIBLE PASSING SPACE DETAIL**  
 SCALE: 1/4\"=1'-0\"

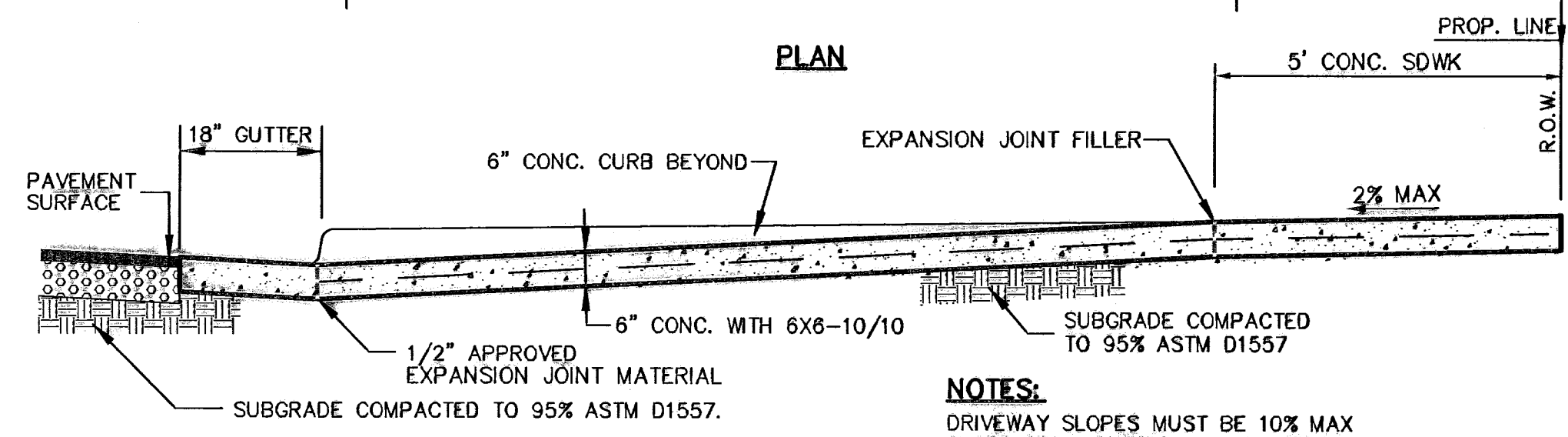
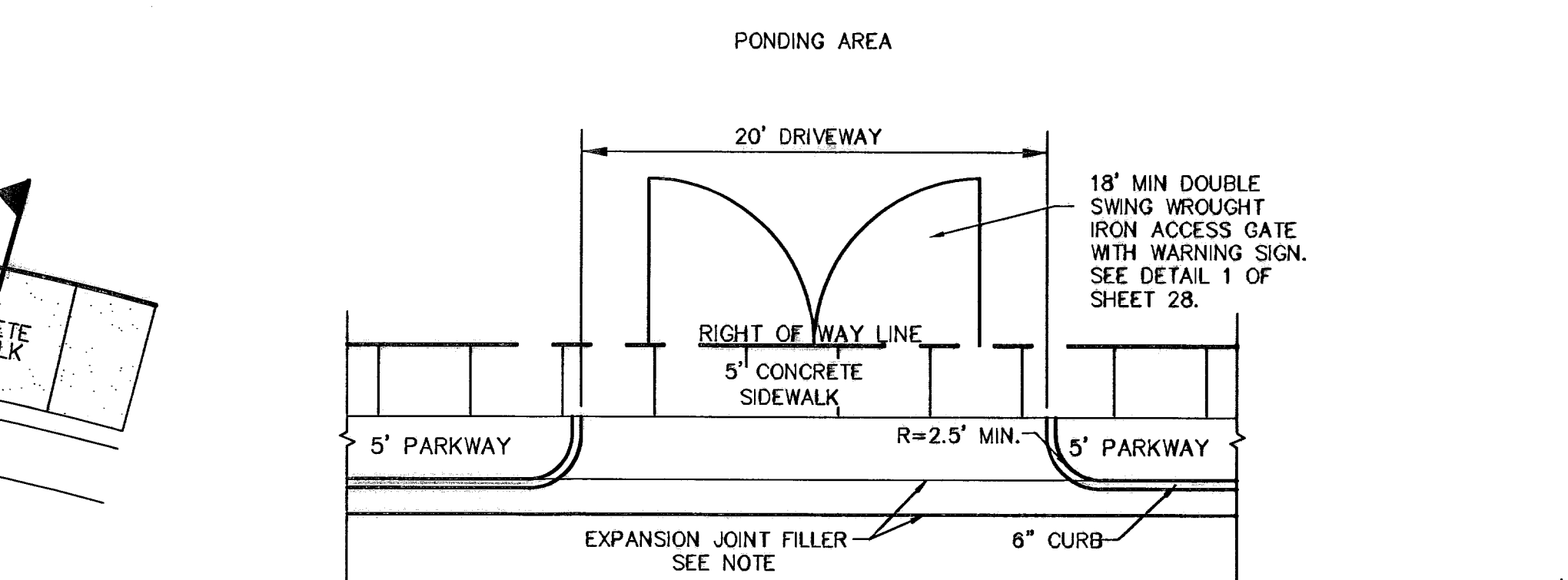


**12 HEEL (70' R) DRIVEWAY DETAIL**  
 SCALE: NTS



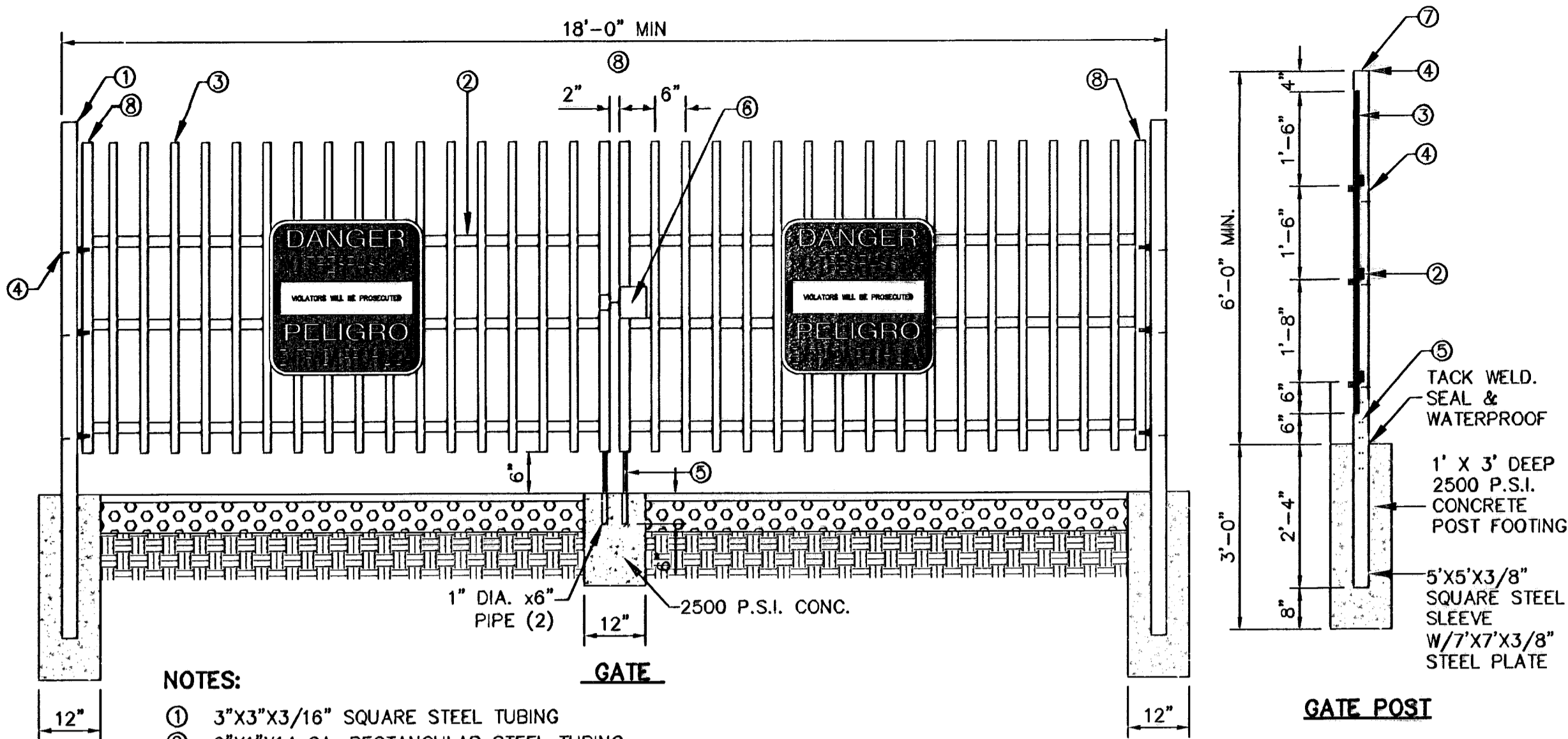
- NOTE:**  
 STREET IMPROVEMENTS SHALL BE CONSTRUCTED IN ACCORDANCE WITH CURRENT CITY OF EL PASO PAVING CONSTRUCTION DETAILS AND STANDARD SPECIFICATIONS: CBR @ EVERY 500' RESULTS TO BE SUBMITTED TO THE CITY OF EL PASO DEVELOPMENT SERVICES FOR REVIEW AND APPROVAL PRIOR TO PLACEMENT OF PAVEMENT

**8 TYPICAL 52' ROW STREET SECTIONS DETAIL**  
 SCALE: 1\"=6'



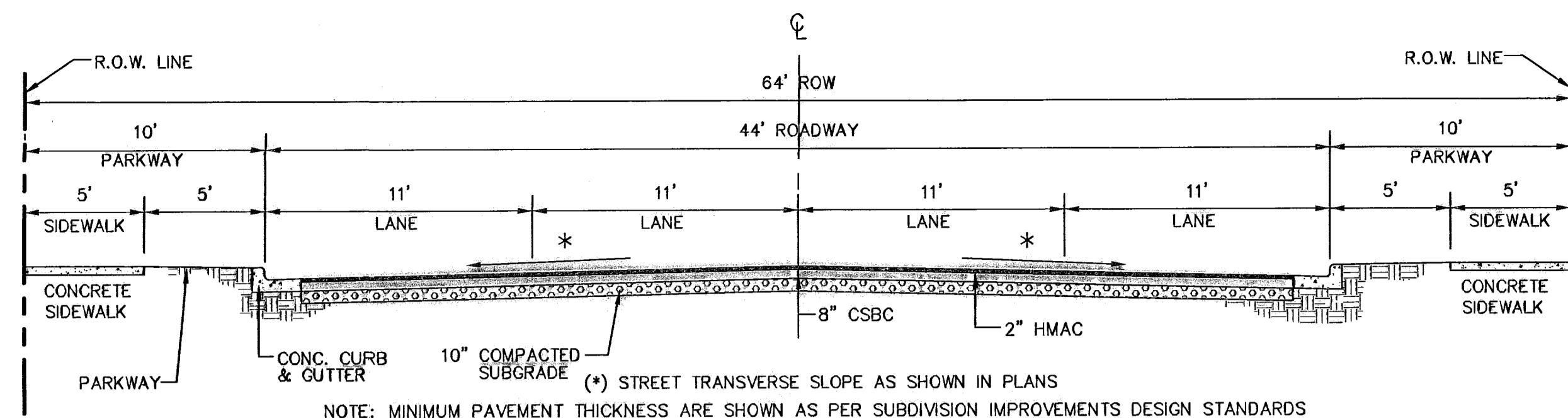
- NOTES:**  
 DRIVEWAY SLOPES MUST BE 10% MAX SLOPE FROM GUTTER FOR THE FIRST 12 FEET, 14% MAX. THEREAFTER.

**13 TYPICAL COMMERCIAL DRIVEWAY @ PONDING AREA DETAIL**  
 SCALE: NTS

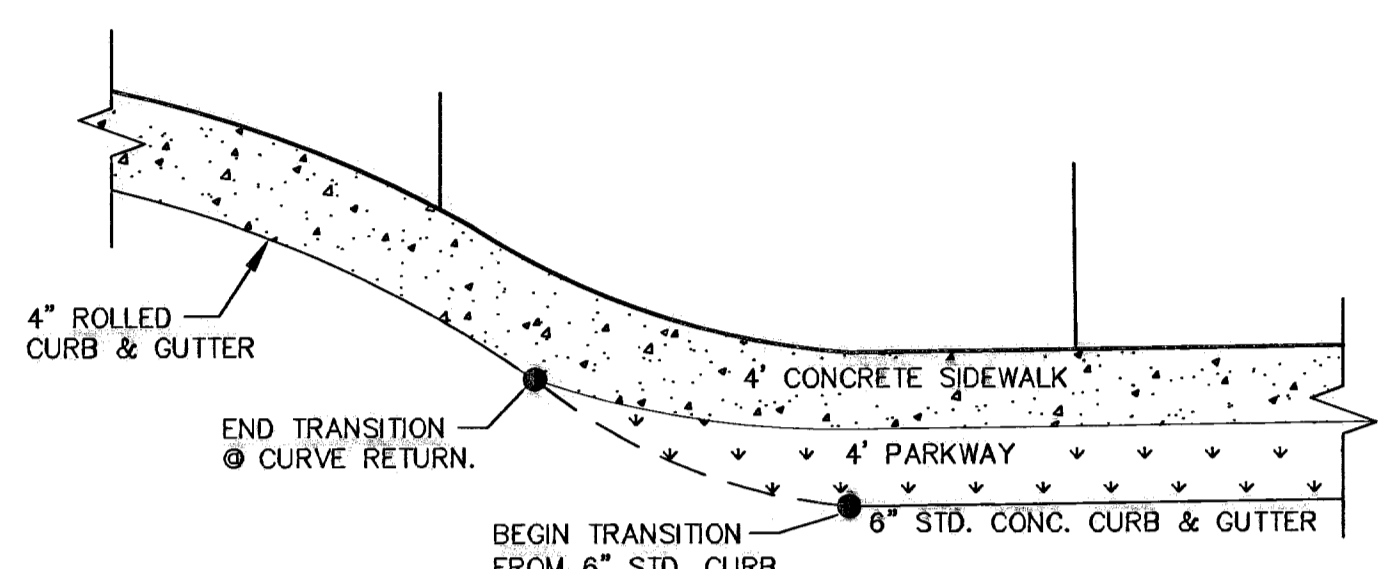


- NOTES:**
- ① 3"x3"x3/16" SQUARE STEEL TUBING
  - ② 2"x1"x1/4" GA. RECTANGULAR STEEL TUBING
  - ③ 1 1/2"x 1/2" X16 GA. RECTANGULAR STEEL TUBING
  - ④ BOLT HOOK AND STRAP HINGE
  - ⑤ CANE BOLT LATCH W/KEEPER 5-8"x18" LONG (2 REQUIRED)
  - ⑥ DOUBLE GATE HEAVY DUTY INDUSTRIAL LATCH W/PAD LOCK
  - ⑦ FLAT TOP POLYVINYL CAP
  - ⑧ 2"x1"x10 GA. RECT. STL. TUBING

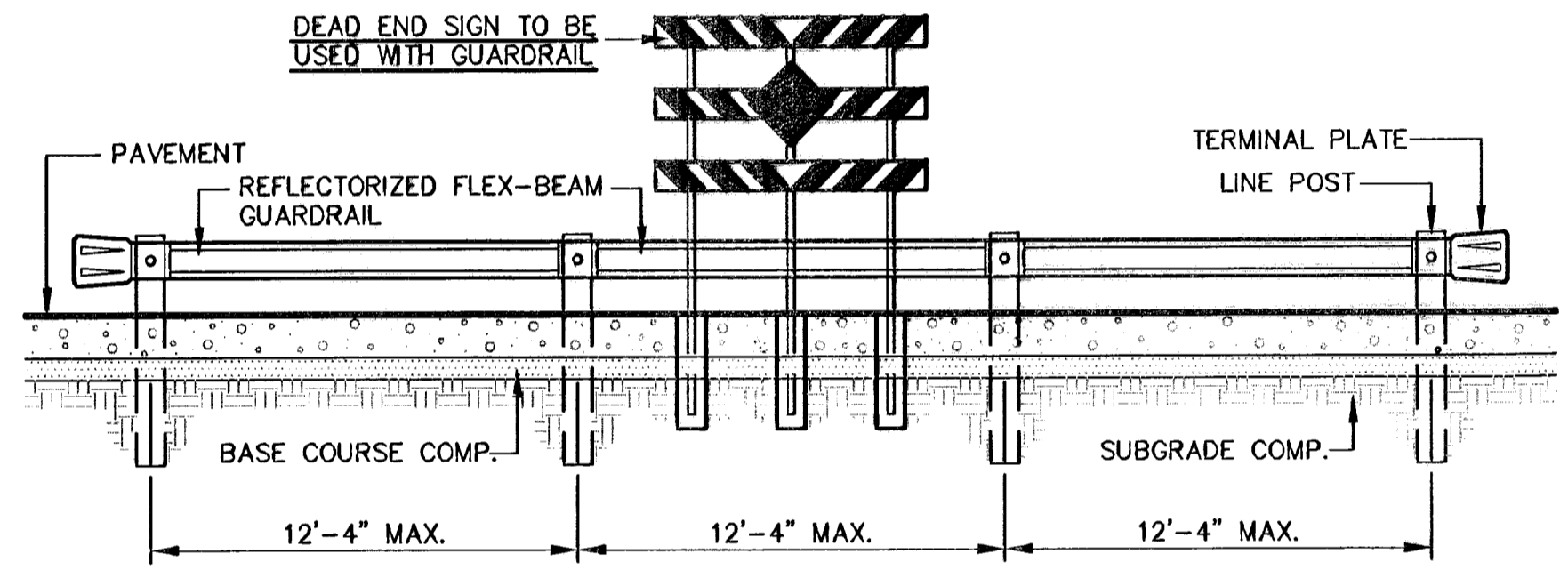
**1 TYPICAL WROUGHT IRON GATE DETAILS**  
SCALE: N.T.S.



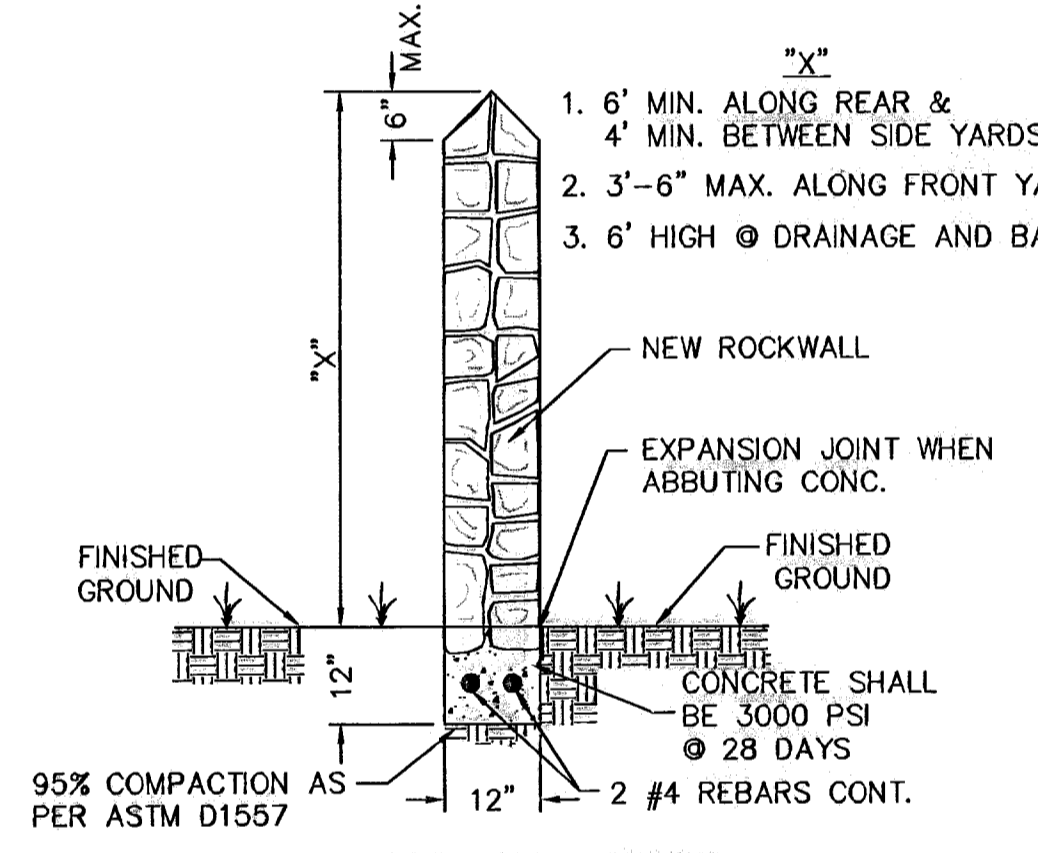
**2 TYPICAL 64' R.O.W. STREET SECTION DETAIL (COLLECTOR ARTERIAL)**  
SCALE: 1" = 5'



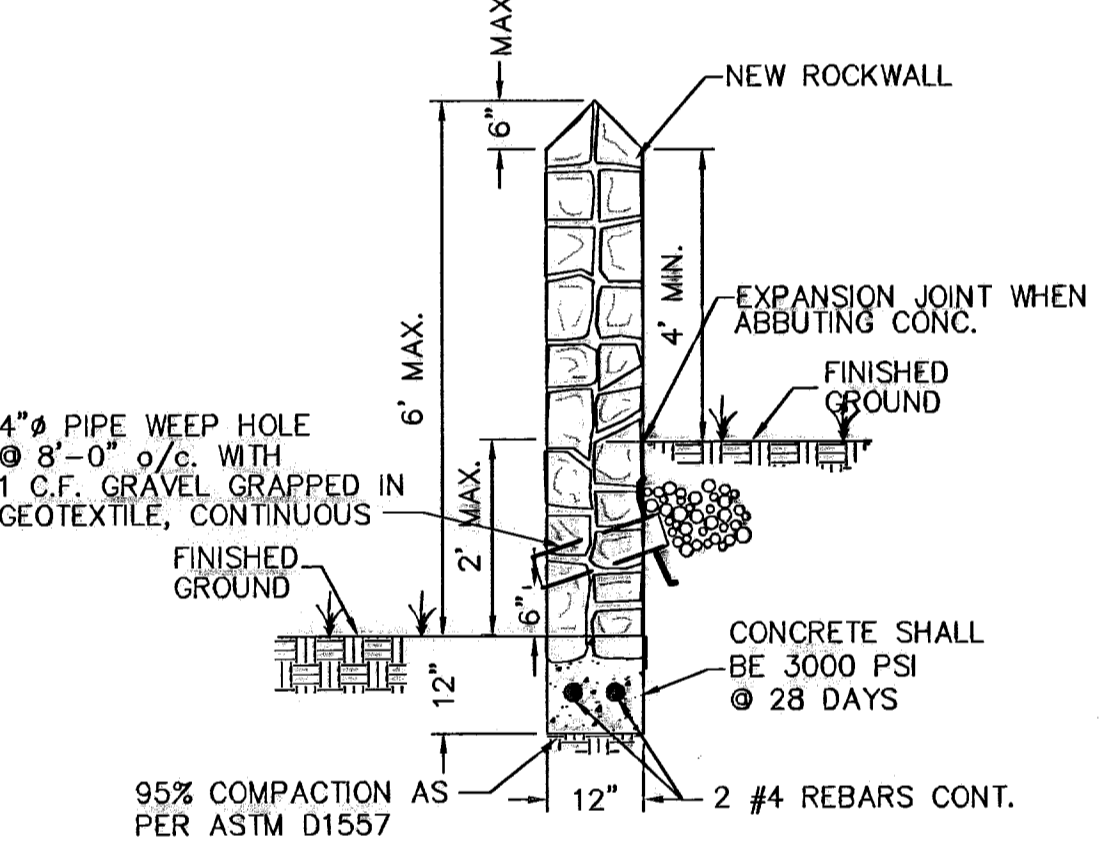
**3 TYPICAL HEEL/CUL-DE-SAC SIDEWALK TRANSITION**  
SCALE: N.T.S.



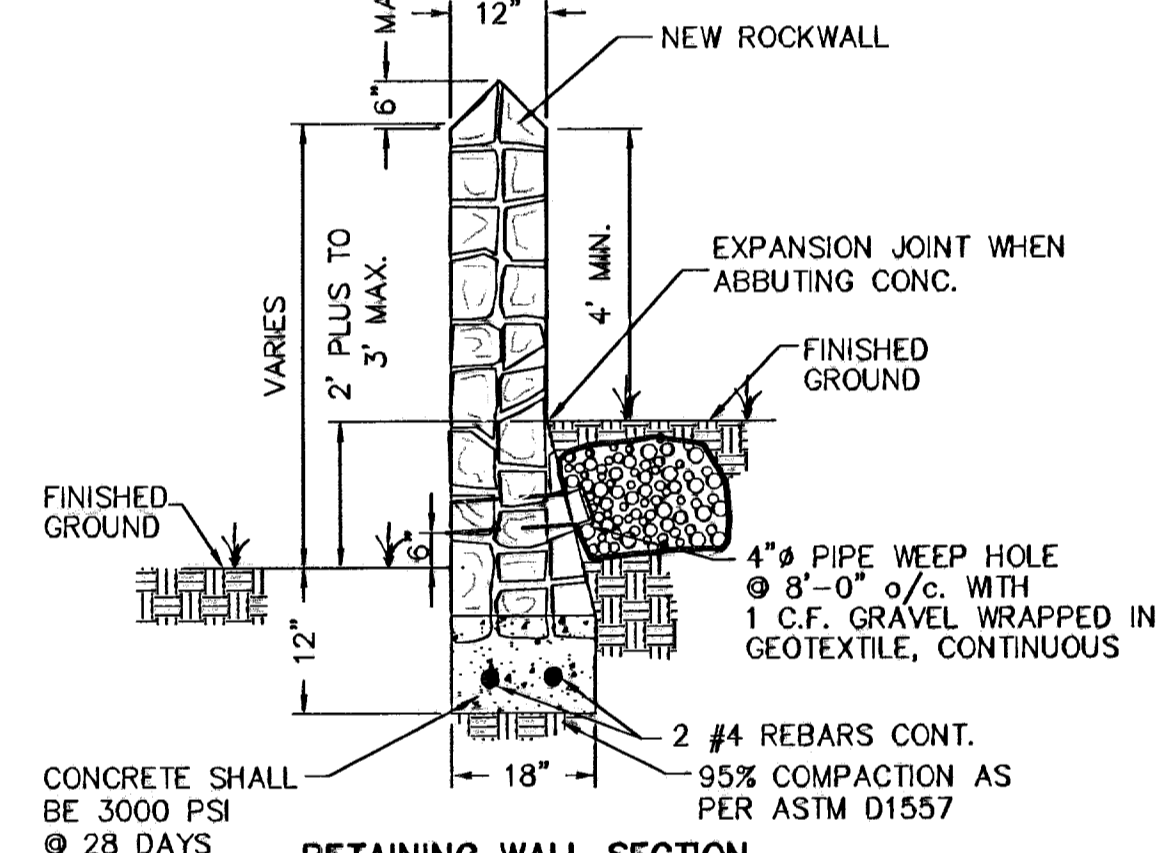
**ELEVATION**  
SCALE: 1" = 5'



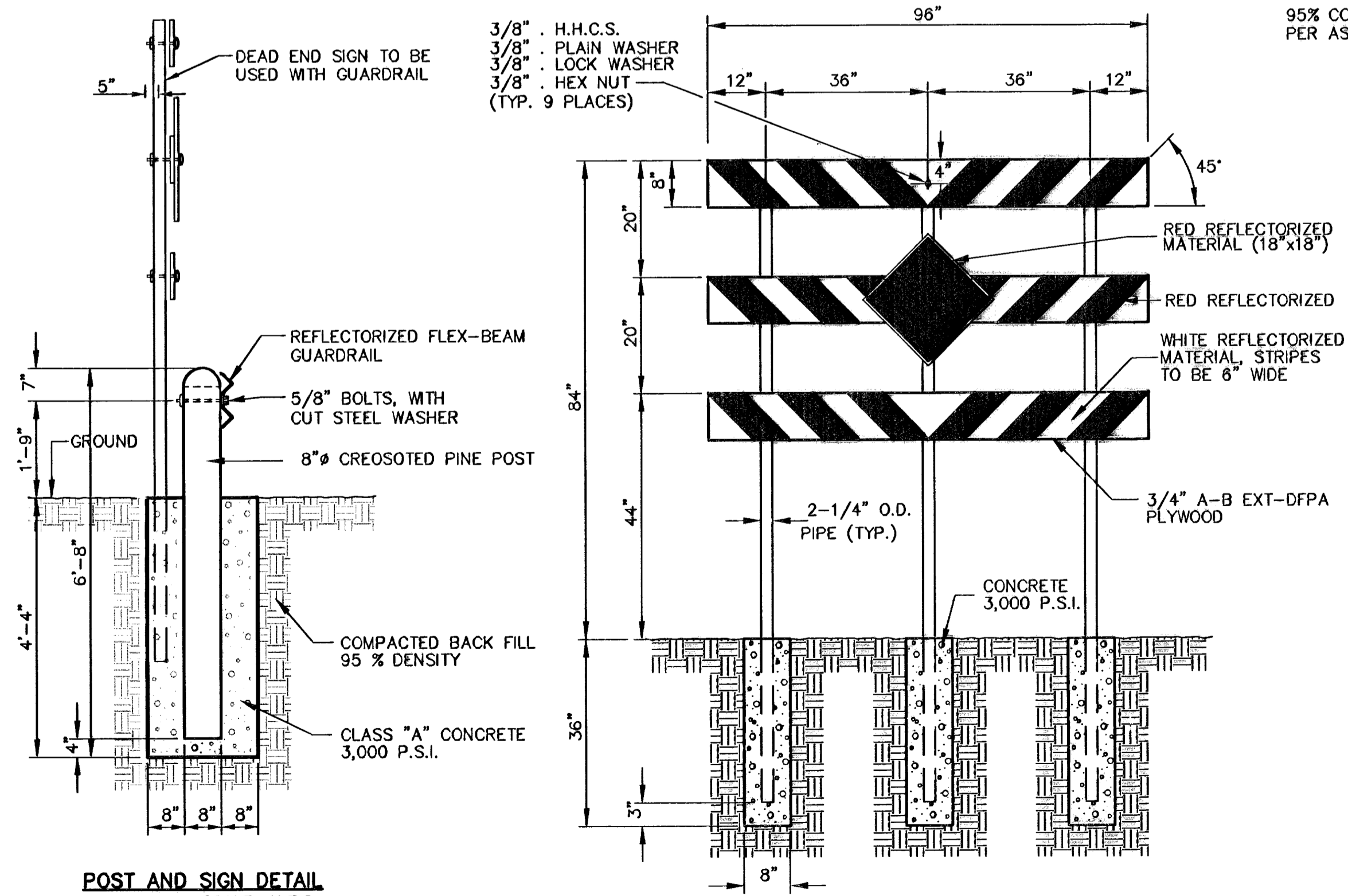
**GARDEN WALL SECTION**



**GARDEN WALL SECTION (2' MAX.)**



**RETAINING WALL SECTION (2' PLUS TO 3' MAX.)**



**POST AND SIGN DETAIL**  
SCALE: N.T.S.

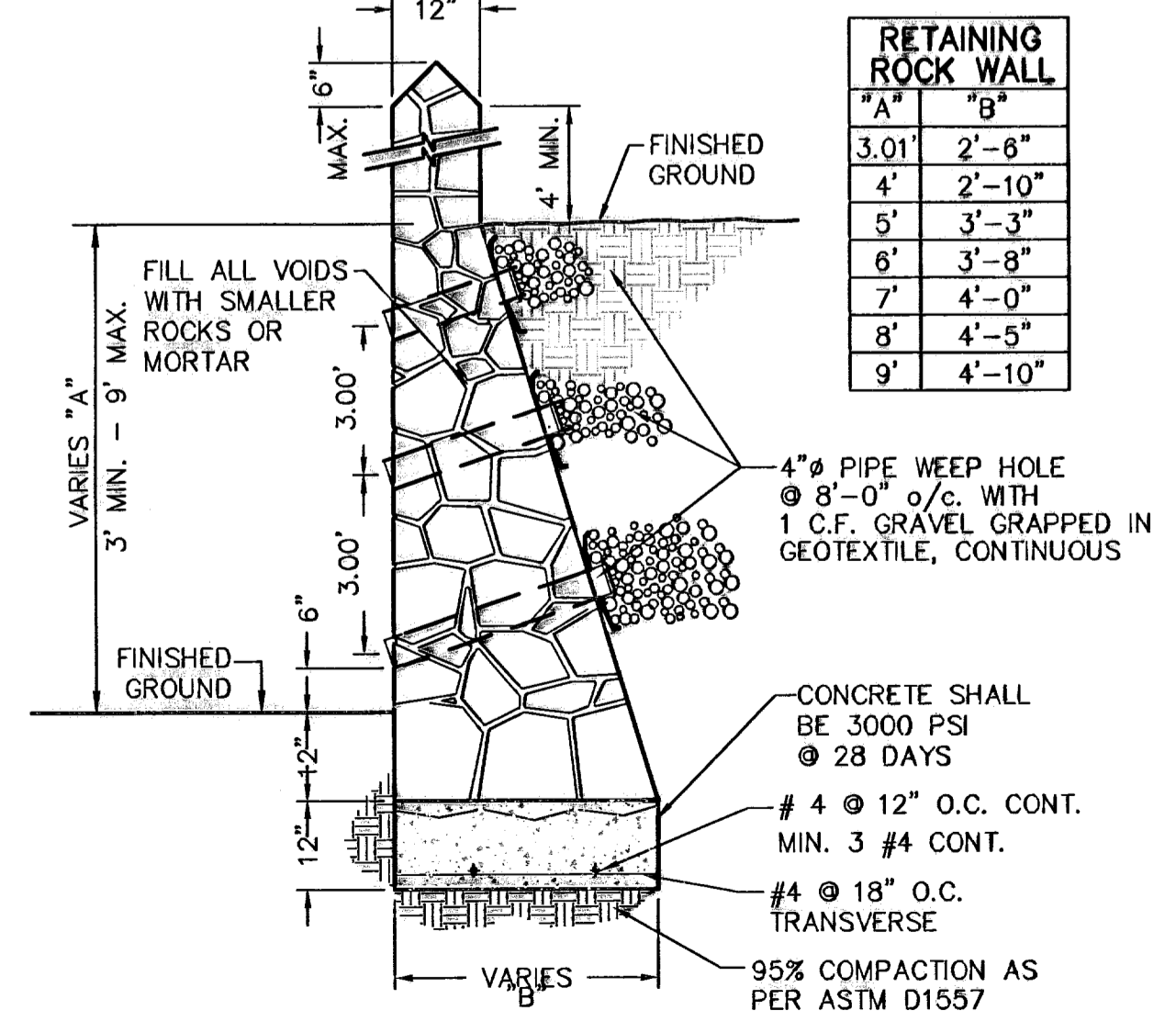
**DEAD END SIGN DETAIL**  
SCALE: 1" = 2'-0"

**4 GUARD RAIL/SIGN ASSEMBLY AT DEAD END STREET DETAIL**  
SCALE: AS SHOWN

- ROCK WALL NOTES**
1. STONE FOR ROCKWALL SHALL BE AS NEARLY UNIFORM IN SECTIONS AS IN PRACTICABLE THE STONE SHALL BE DENSE AND RESISTANT OF AIR AND WATER
  2. MORTAR MUST BE TYPE "S": 1800 P.S.I. AS PER ASTM C270
  3. MASONRY WALL OVER SIX (6) FEET IN HEIGHT AND THOSE USED FOR EARTH RETENTION OVER TWO (2) FEET MUST BE DESIGNED AS STRUCTURAL WALLS.
  4. WALLS ADJACENT TO PONDING AREAS OR DRAINAGE DITCHES MAY BE CONSTRUCTED OF BRICK, ROCK, STONE OR CINDER BLOCK AND SHALL NOT BE LESS THAN SIX (6) FEET HIGH.
  5. ROCKWALL MORTAR JOINTS MUST NOT EXCEED TWO (2) INCHES
  6. PROVIDE ONE (1) INCH EXPANSION JOINTS AT EVERY 100 FEET
  7. ALL STONE SHALL BE THOROUGHLY SOAKED BEFORE BEING PLACED
  8. ALL STONE FOR ROCKWALLS SHALL BE FRACTURED QUARRIED ROCK OR ROUND ROCK, NO RIVER ROCK SHALL BE ALLOWED.
  9. REINFORCING STEEL SHALL BE ASTM A615 GRADE 40.
  10. ALLOWABLE SOIL BEARING PRESSURE = 2,500 PSI (MINIMUM)
  11. BACKFILL MATERIALS SHALL CONSIST OF COARSE GRAINED, WELL-DRAINED SOILS (WITH NO CLAY CONTENT).

NOTE: BUILDER SHALL SUBMIT ROCKWALL AND RETAINING ROCKWALL COMPUTATIONS TO THE CITY OF EL PASO FOR APPROVAL.

**5 TYPICAL ROCKWALL DETAILS**  
SCALE: 1/2" = 1'-0"



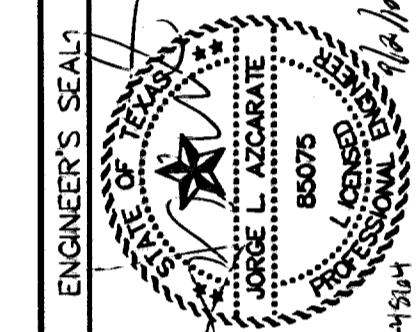
**RETAINING WALL SECTION (3' MIN. TO 9' MAX.)**

RETAINING ROCK WALL	
"A"	"B"
3.01	2'-6"
4'	2'-10"
5'	3'-3"
6'	3'-8"
7'	4'-0"
8'	4'-5"
9'	4'-10"

**RECORD DRAWINGS**  
09/01/10

REFERENCES - BENCHMARKS  
CITY MONUMENT AT POINT OF CURVE  
CENTERLINE RICH BEEM BLVD., S08+42.31' E A  
DISTANCE OF 467.58 FEET FROM THE  
CITY MONUMENT TO THE POINT OF CURVE  
AVENUE CITY DATUM  
ELEVATION.....4005.40  
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REVISIONS  
BY

**CSA**  
engineers • architects • planners  
Cashner Center @ Transmountain  
4712 Woodrow Blvd., Ste. F El Paso, TX 79924  
Office: 915.544.5222 Fax: 915.544.5223 www.csaeng.com



SCALE: AS SHOWN  
Horizontal: N/A  
Vertical: N/A  
Contour interval: N/A  
DATE: MARCH 2009  
DESIGN BY: J.G.  
DRAWN BY: D.N.  
CHKD. BY: J.L.A.  
APPVD. BY: J.L.A.  
JOB No.: 2000-100 LD #1191

PROJECT TITLE  
**TRES SUEÑOS UNIT SIX**  
**SUBDIVISION IMPROVEMENTS**

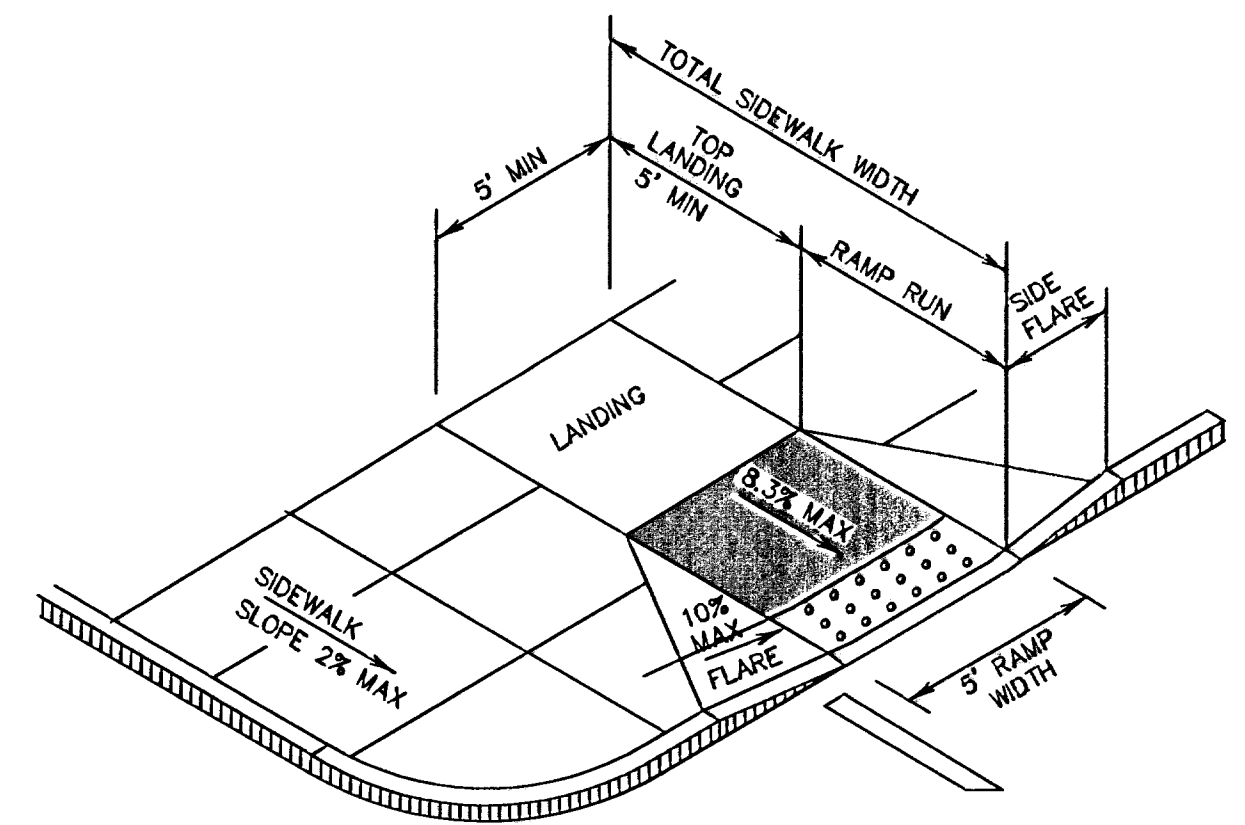
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STANDARD  
DETAILS  
(SHEET 2 OF 3)  
SHEET NO.

28  
OF 36

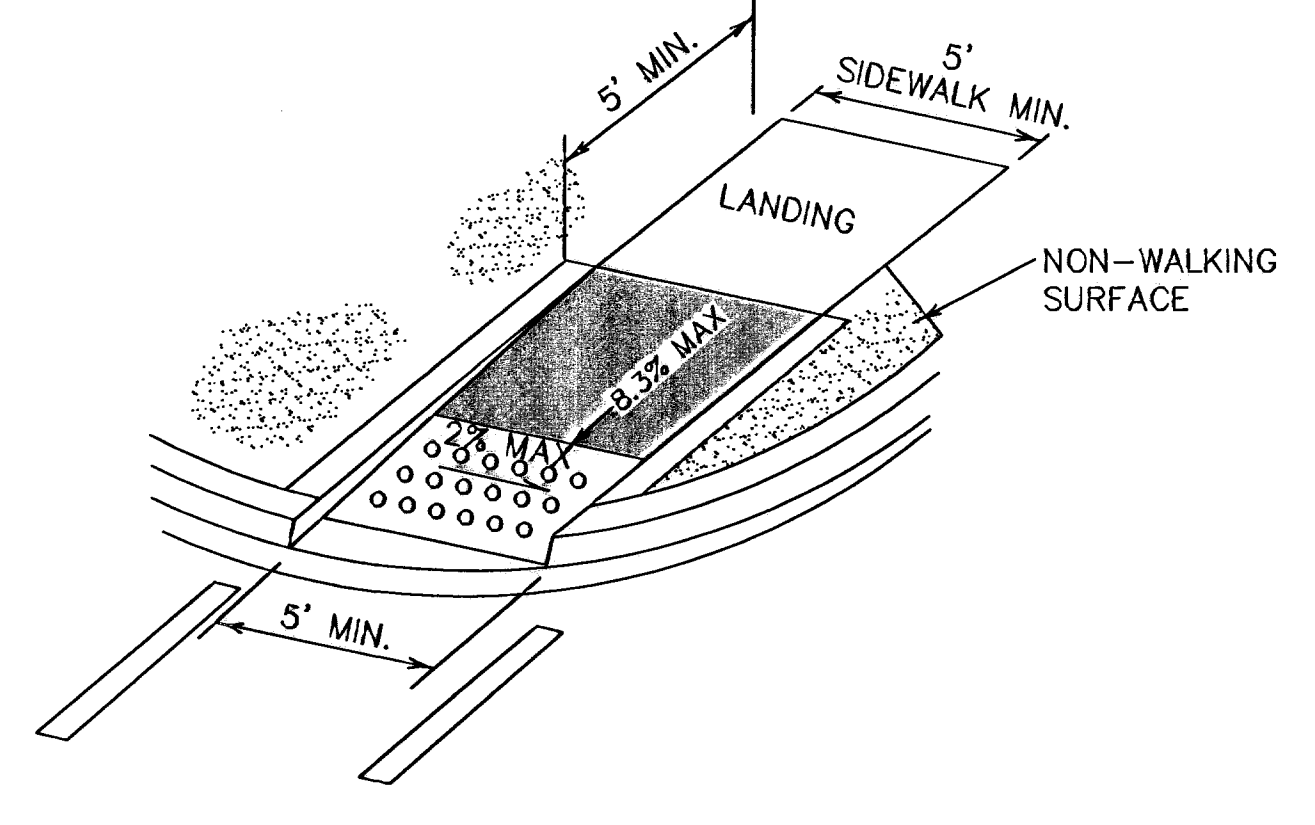
**LEGEND**

DETECTABLE WARNING SURFACE SHALL CONSIST OF RAISED TRUNCATED DOMES WITH A NOMINAL DIAMETER OF 0.9 IN, A NOMINAL HEIGHT OF 0.2 IN AND A CENTER TO CENTER NOMINAL SPACING OF 2.35 IN, AND SHALL NOT BE STAGGERED. THE SURFACE SHALL HAVE A COLOR CONTRAST VISUALLY WITH ADJOINING SURFACES.

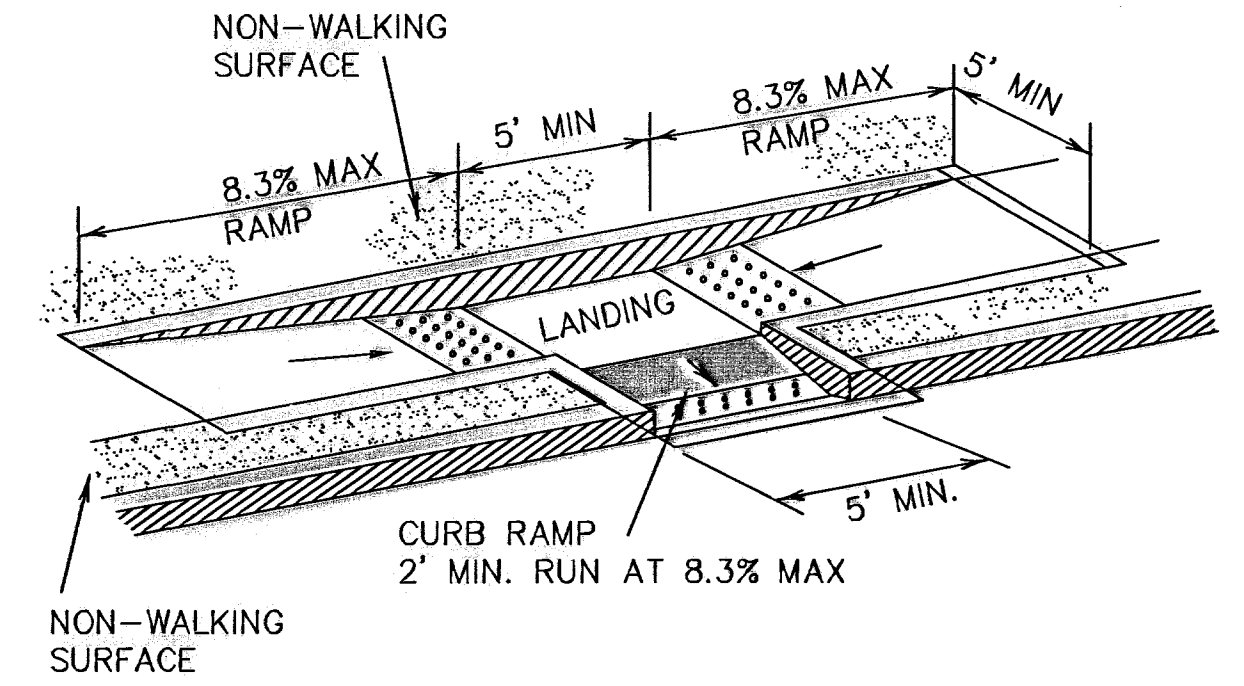
1. ALL SLOPES ARE MAXIMUM ALLOWABLE. THE LEAST POSSIBLE SLOPE THAT WILL STILL DRAIN PROPERLY SHOULD BE USED. RAMP LENGTH OR GRADE OF APPROACH SIDEWALKS MAY BE ADJUSTED AS DIRECTED BY THE ENGINEER.
2. THE MINIMUM SIDEWALK WIDTH IS 5'. WHERE A 5' SIDEWALK CAN NOT BE PROVIDED DUE TO SITE CONSTRAINTS, A MINIMUM 3' SIDEWALK WITH 5' X 5' PASSING AREAS AT INTERVALS NOT TO EXCEED 200 FT IS REQUIRED.
3. LANDINGS SHALL BE 5' X 5' MINIMUM WITH A MAXIMUM 2% SLOPE IN ANY DIRECTION.
4. MANEUVERING SPACE AT THE BOTTOM OF CURB RAMPS SHALL BE A MINIMUM OF 4' X 4' WHOLLY CONTAINED WITHIN THE CROSSWALK AND WHOLLY OUTSIDE THE PARALLEL VEHICULAR TRAVEL PATH.
5. CURB RAMPS WITH RETURNED CURBS MAY BE USED ONLY WHERE PEDESTRIANS WOULD NOT NORMALLY WALK ACROSS THE RAMP. OTHERWISE, FLARED SIDES SHALL BE PROVIDED.
6. ALL CONCRETE SIDEWALK SURFACES SHALL RECEIVE A LIGHT BROOM FINISH UNLESS NOTED OTHERWISE IN THE PLANS.
7. RAMP TEXTURES MUST CONSIST OF TRUNCATED DOMED SURFACES. TEXTURES ARE REQUIRED TO BE DETECTABLE UNDERFOOT. SURFACES THAT WOULD ALLOW WATER TO ACCUMULATE ARE PROHIBITED. REFER TO TRUNCATED DOME DETAIL.
8. CROSSWALK DIMENSIONS, CROSSWALK MARKINGS AND STOP BAR LOCATIONS SHALL BE AS SHOWN ELSEWHERE IN THE PLANS. AT INTERSECTIONS WHERE CROSSWALK MARKINGS ARE NOT REQUIRED, RAMPS SHALL BE ALIGNED WITH THEORETICAL CROSSWALKS, OR AS DIRECTED BY THE ENGINEER.
9. MAXIMUM ALLOWABLE CROSS SLOPE ON SIDEWALK AND RAMP SURFACES IS 2%.
10. ADDITIONAL INFORMATION ON CURB RAMP LOCATION, DESIGN, LIGHT REFLECTIVE VALUE AND TEXTURE MAY BE FOUND IN THE CURRENT EDITION OF THE TEXAS ACCESSIBILITY STANDARDS (TAS) PREPARED AND ADMINISTERED BY THE TEXAS DEPARTMENT OF LICENSING AND REGULATION (TDLR).



1 PERPENDICULAR CURB RAMP (TYPE I)  
SCALE: NTS

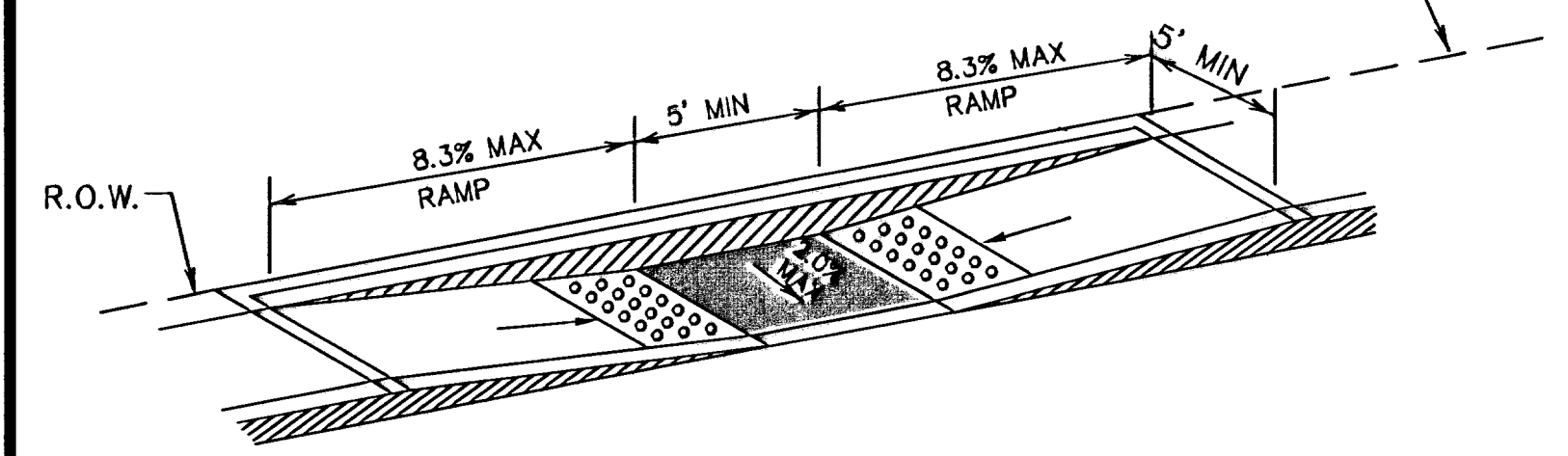


2 DIRECTIONAL RAMP WITHIN RADIUS (TYPE IV)  
SCALE: NTS

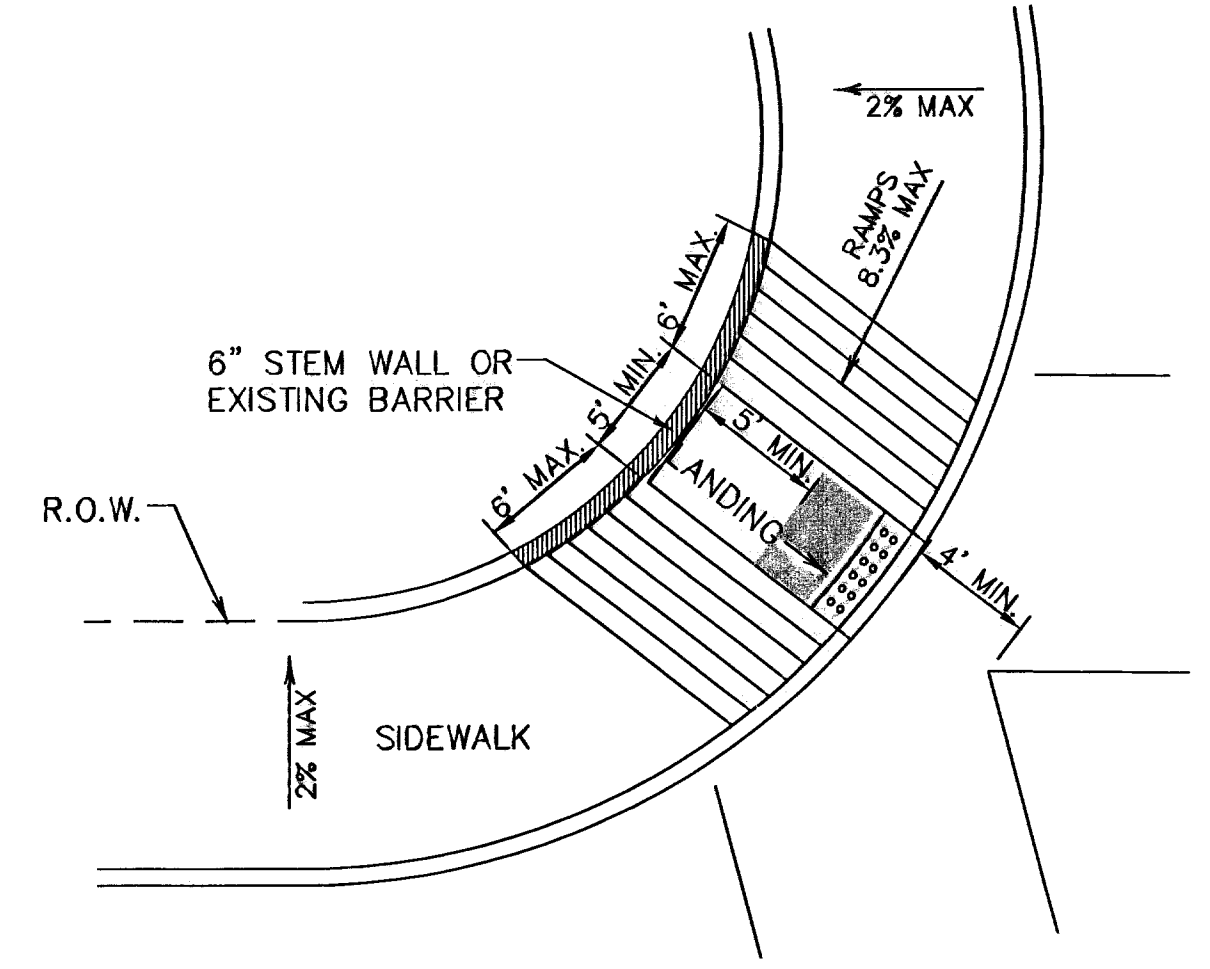


3 COMBINATION CURB RAMPS (TYPE VII)  
SCALE: NTS

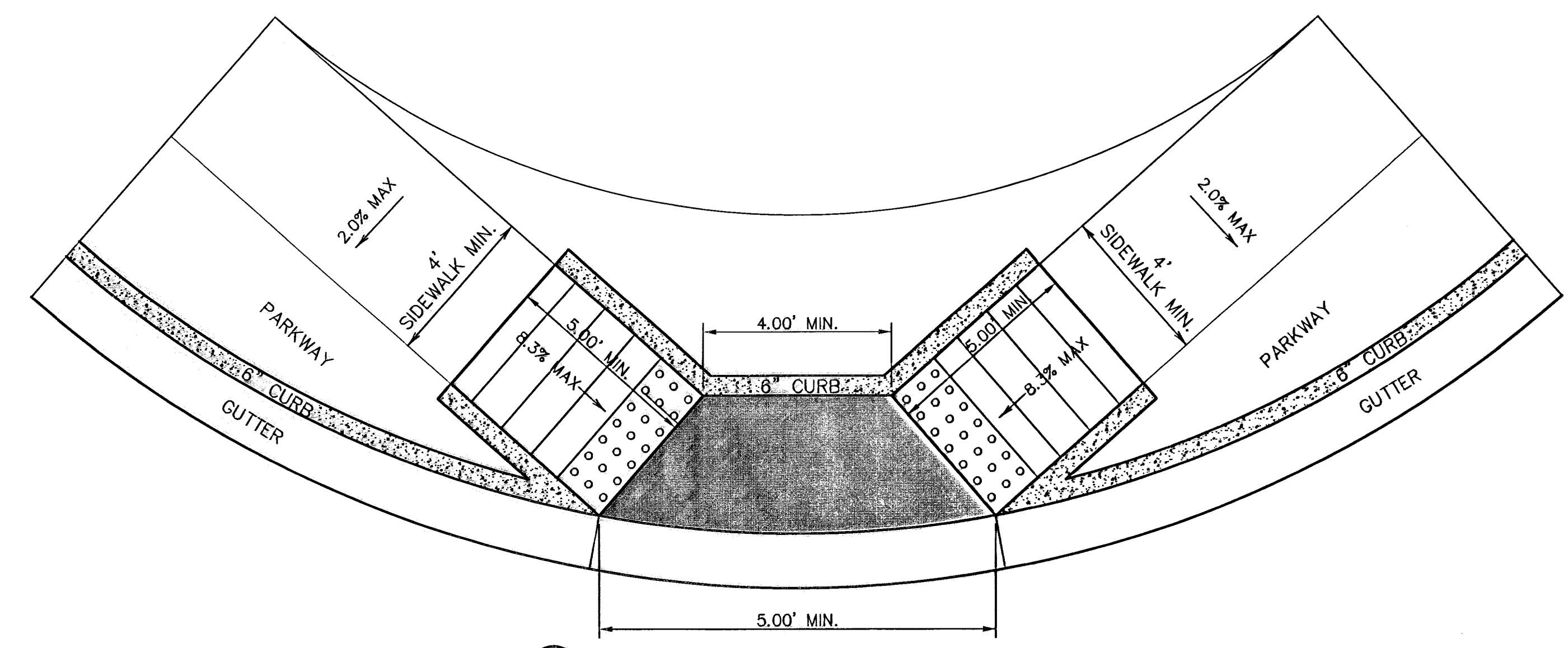
**GENERAL NOTES:**



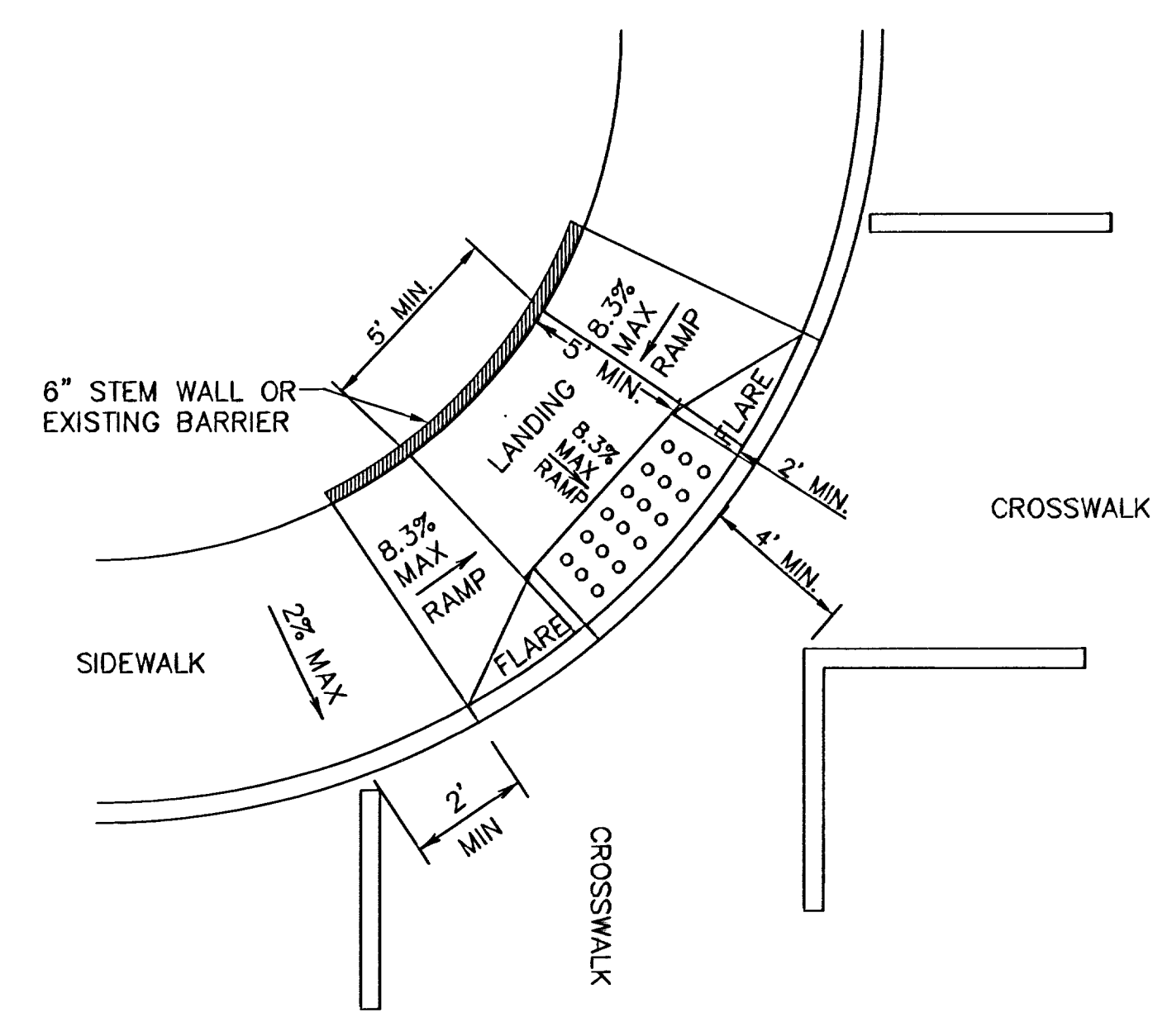
4 PARALLEL CURB RAMP (TYPE II)  
SCALE: NTS



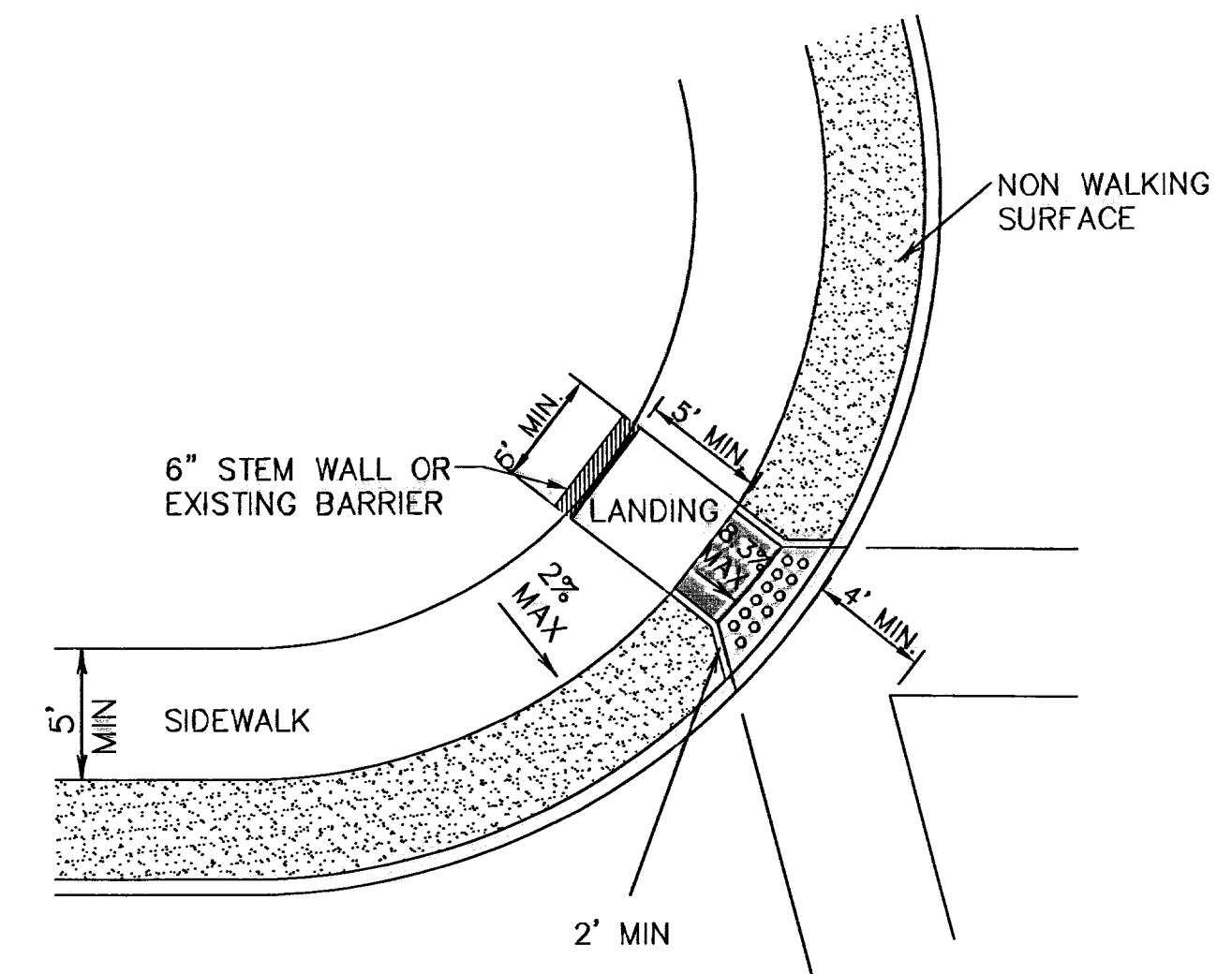
5 DIAGONAL CURB RAMP  
SCALE: NTS



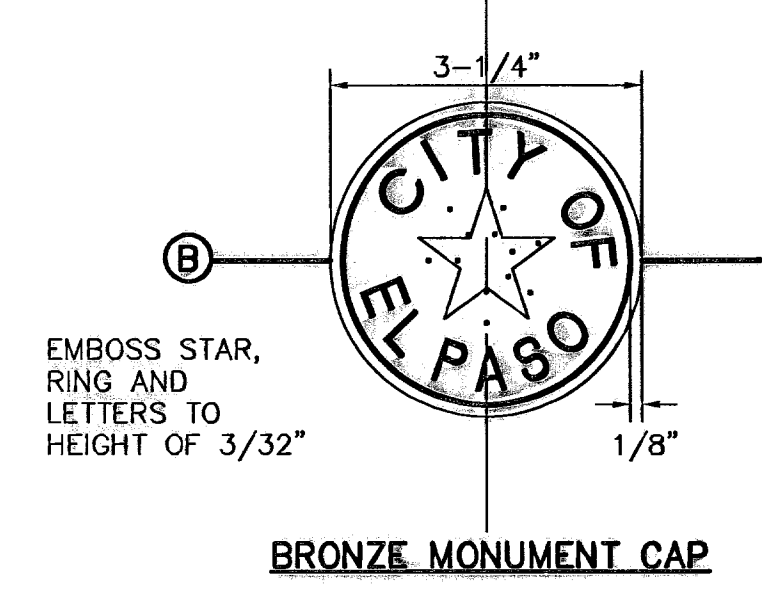
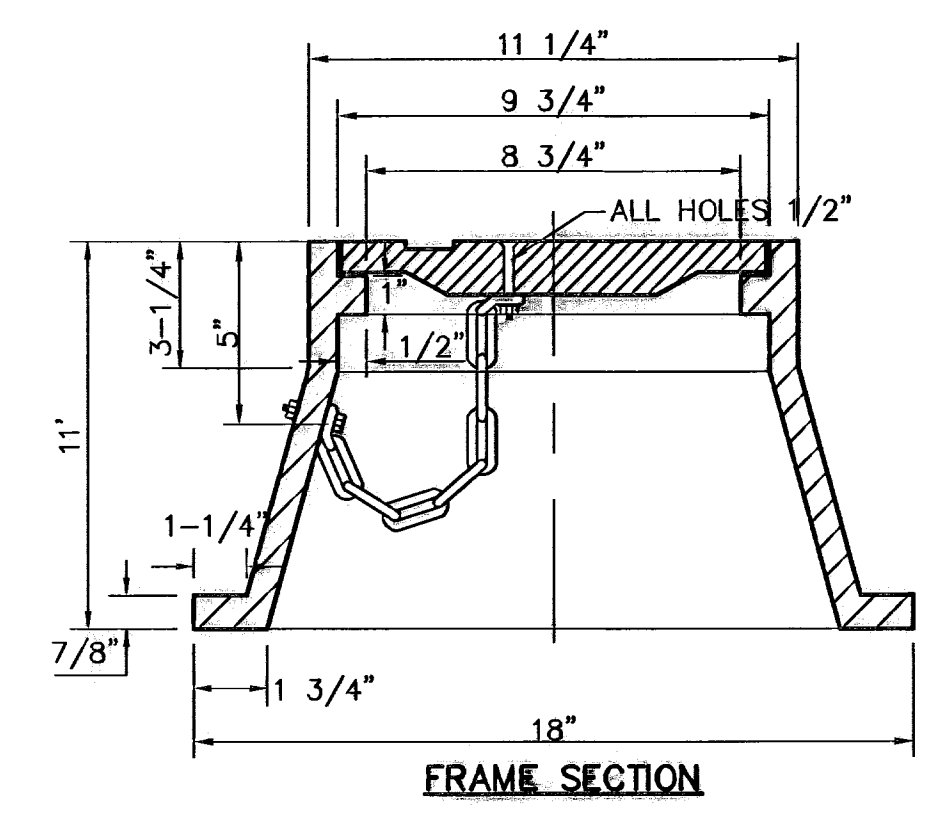
6 DIRECTIONAL RAMP @ INTERSECTION  
SCALE: NTS



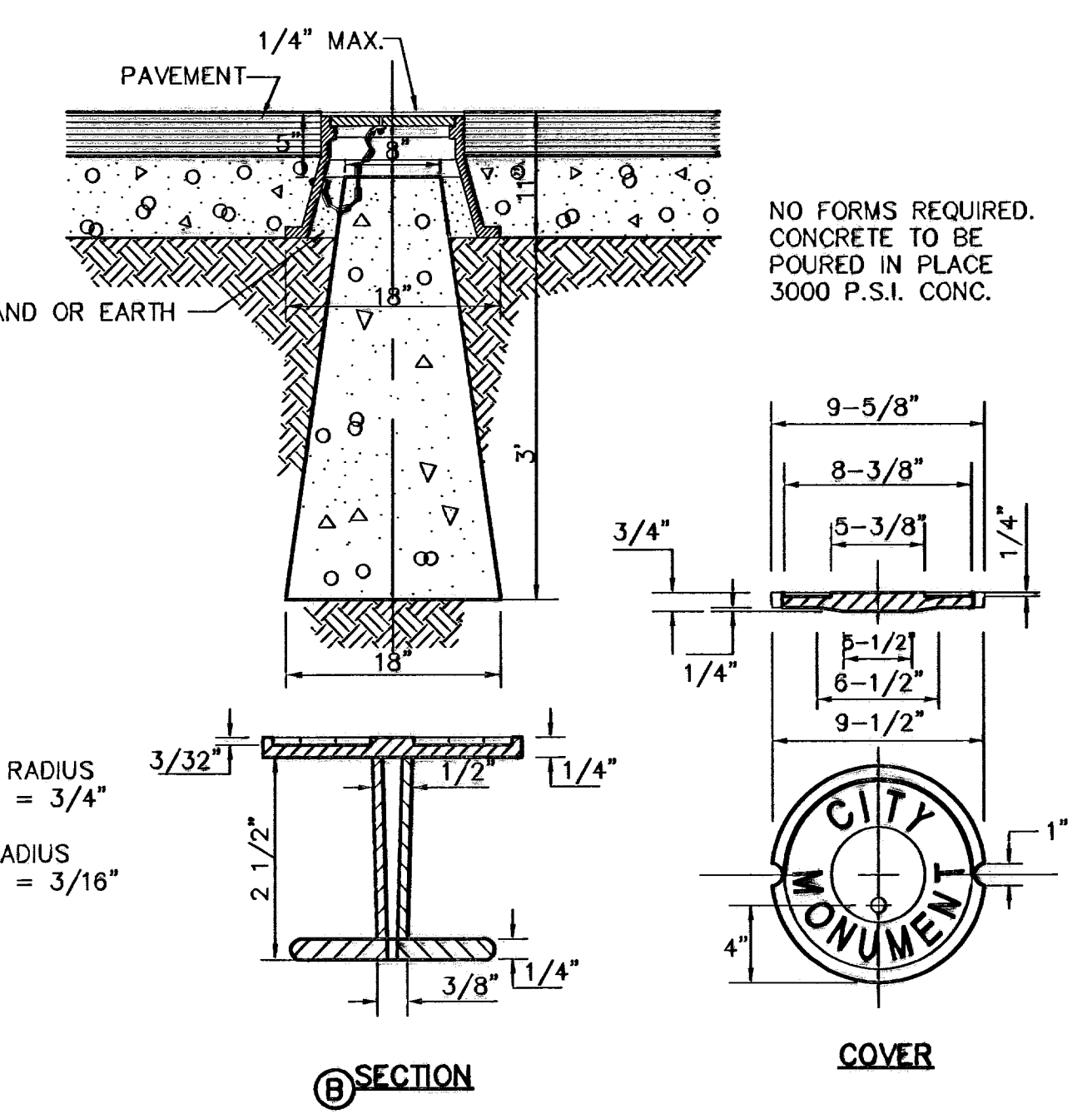
7 DIAGONAL COMBINATION CURB RAMP (TYPE III)  
SCALE: NTS



8 DIAGONAL CURB RAMP (RETURNED CURB) (TYPE VI)  
SCALE: NTS



9 CITY SURVEY MONUMENT DETAILS  
SCALE: N.T.S.

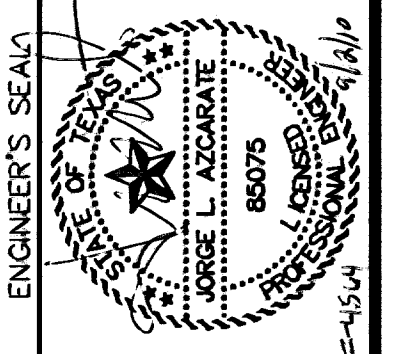


**RECORD DRAWINGS**  
THESE RECORD DOCUMENTS HAVE BEEN PREPARED BASED ON INFORMATION PROVIDED BY OTHERS. OCA GROUP HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION AND SHALL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS THAT MAY BE INCORPORATED AS A RESULT OF ENGINEERING INFORMATION PROVIDED BY OTHERS.  
09/01/10

REFERENCES - BENCHMARKS

CITY MONUMENT AT POINT OF CURVE	
CENTERLINE RICH BEEM BLVD. S084331' E A	
DISTANCE OF 467.58 FEET FROM THE	
SOUTHERLY RIGHT OF WAY LINE OF MONTANA	
AVENUE CITY DATUM	
ELEVATION.....4005.40	
DATE	REVISIONS
BY	

**OCA GROUP**  
engineers • architects • planners  
Casuar Center @ Transmountain  
11504 42nd St. Suite 100  
Dallas, TX 75244-5232 Fax: 972.544.5231 www.ocagroup.com



SCALE	N/A
Horizontal:	N/A
Vertical:	N/A
Contour Interval:	N/A
DATE:	MARCH 2009
DESIGN BY:	J.G.
DRAWN BY:	D.N.
CHKD. BY:	J.L.A.
APP'D. BY:	J.L.A.
JOB No.	2000-100-1D

**TRES SUEÑOS UNIT SIX  
SUBDIVISION IMPROVEMENTS**

PROJECT TITLE  
SHEET TITLE  
STANDARD  
DETAILS  
(SHEET 3 OF 3)  
SHEET NO.

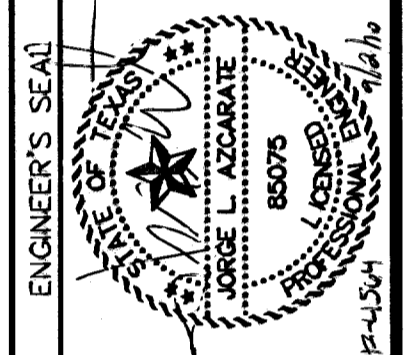
THESE RECORD DRAWINGS HAVE BEEN PREPARED BASED ON INFORMATION PROVIDED BY OTHERS. CEA GROUP HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION AND SHALL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS THAT MAY BE INCORPORATED AS A RESULT OF ERRONEOUS INFORMATION PROVIDED BY OTHERS.

09/01/10

REFERENCES - BENCHMARKS  
 CITY MONUMENT AT POINT OF CURVE  
 CENTERLINE RICH BEEM BLVD., S0843231' E A  
 DISTANCE OF 467.58 FEET FROM THE  
 SOUTHERLY RIGHT OF WAY LINE OF MONTANA  
 AVENUE, CITY DATUM  
 ELEVATION: .....4005.40

DATE: \_\_\_\_\_ REVISIONS: \_\_\_\_\_ BY: \_\_\_\_\_

**CEA GROUP**  
 engineers • architects • planners  
 Caspary Center @ Transmountain  
 4712 Woodrow Wilson, Ste. F El Paso, TX 78924  
 Phone: 915.544.5233 Fax: 915.544.5233 www.ceagroup.net



SCALE: Horizontal: N/A Vertical: N/A  
 Contour Interval: N/A  
 DATE: MARCH 2009  
 DESIGN BY: J.S.  
 DRAWN BY: J.L.A.  
 CHECKED BY: J.L.A.  
 PROJECT NO.: 2000-100.LD  
 SHEET NO.: 30

PROJECT TITLE  
**TRES SUEÑOS UNIT SIX  
 SUBDIVISION IMPROVEMENTS**

SHEET TITLE

DRAINAGE DETAILS

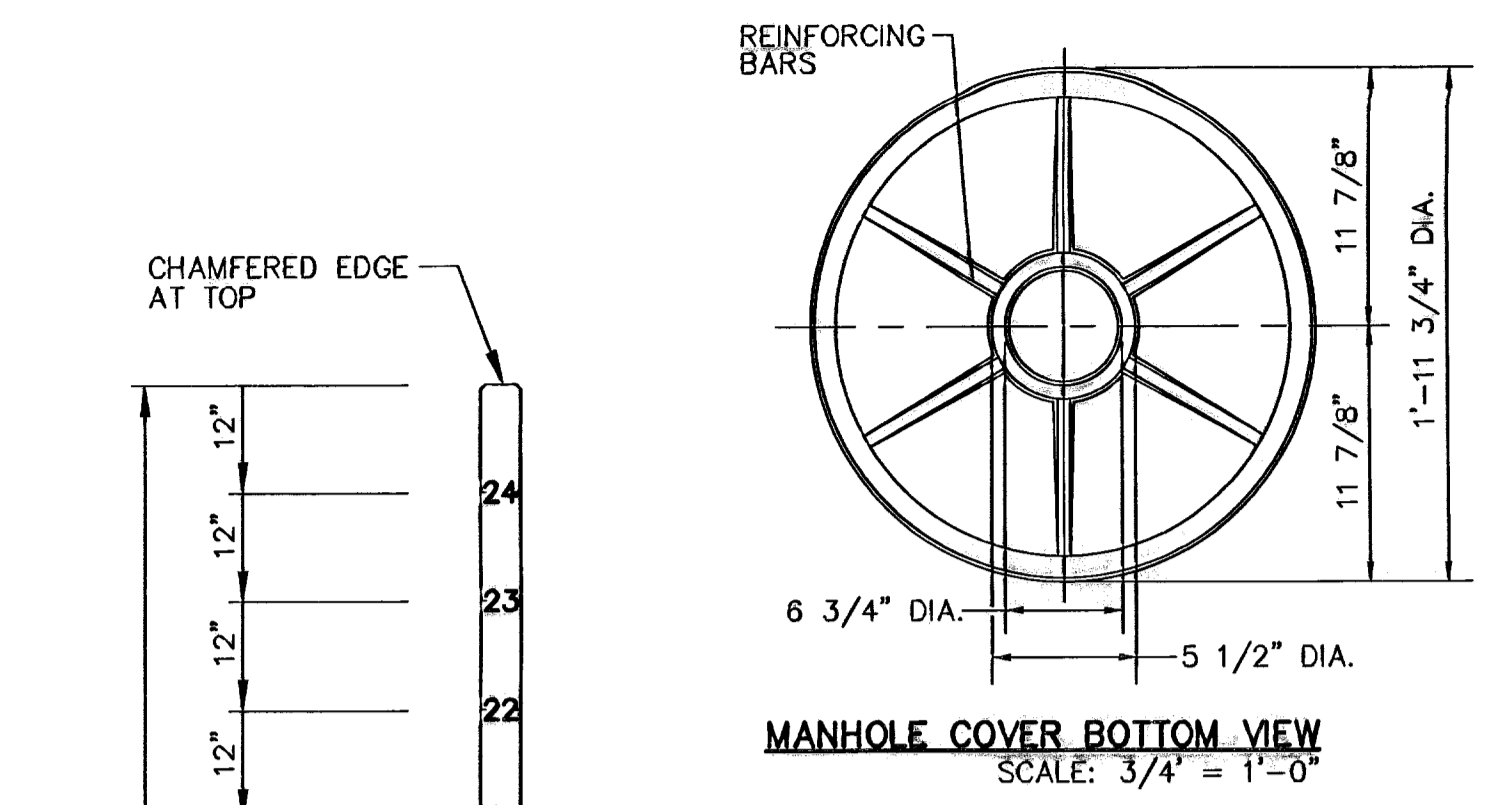
(SHEET 1 OF 2)  
 SHEET NO.

30

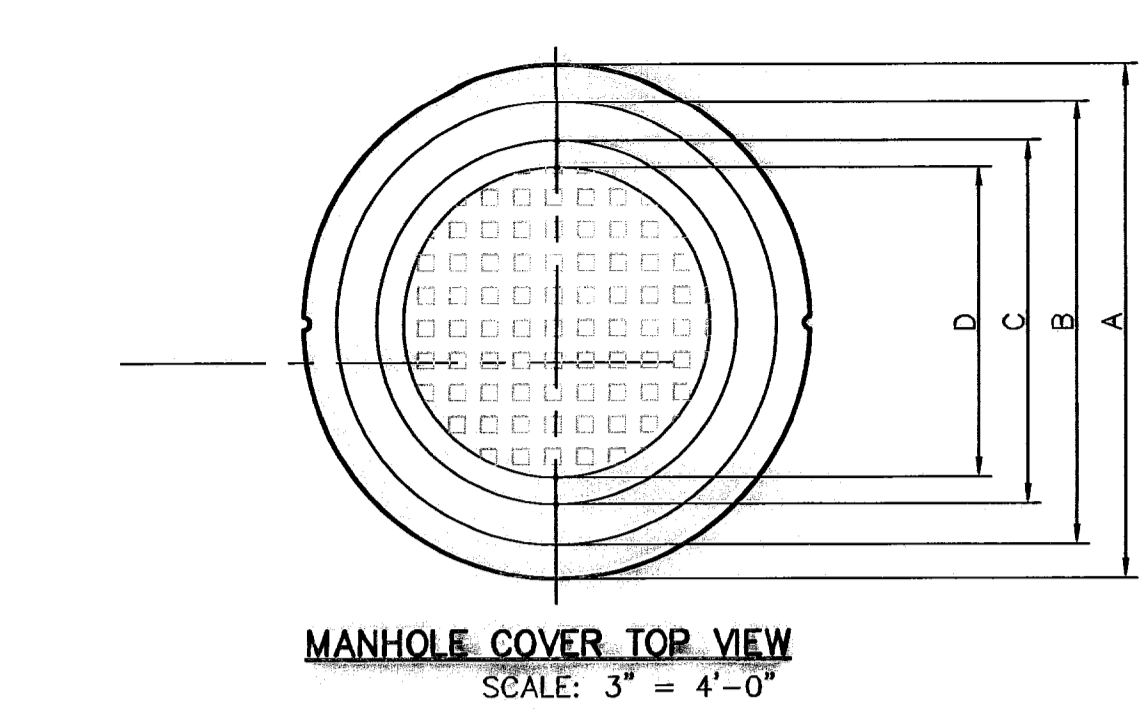
OF 36



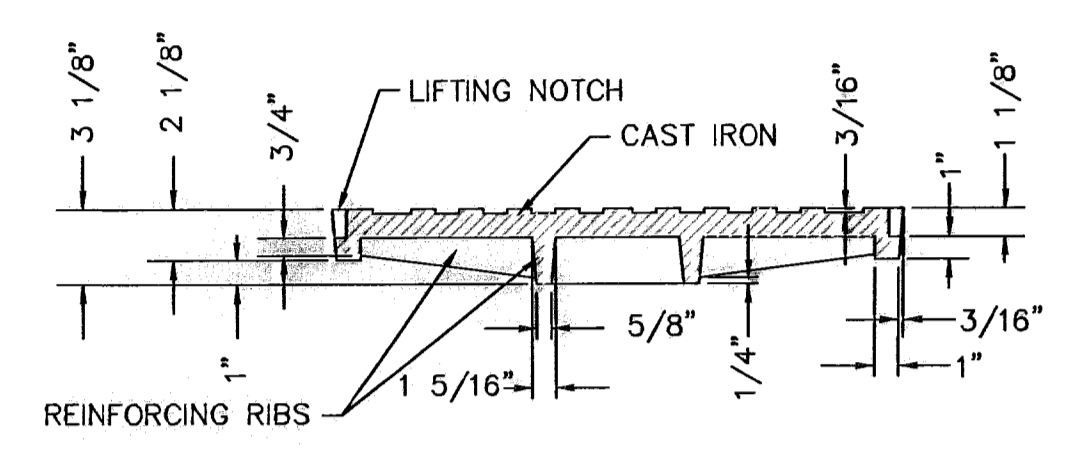
1 NO TRESPASSING WARNING SIGN  
 SCALE: NTS



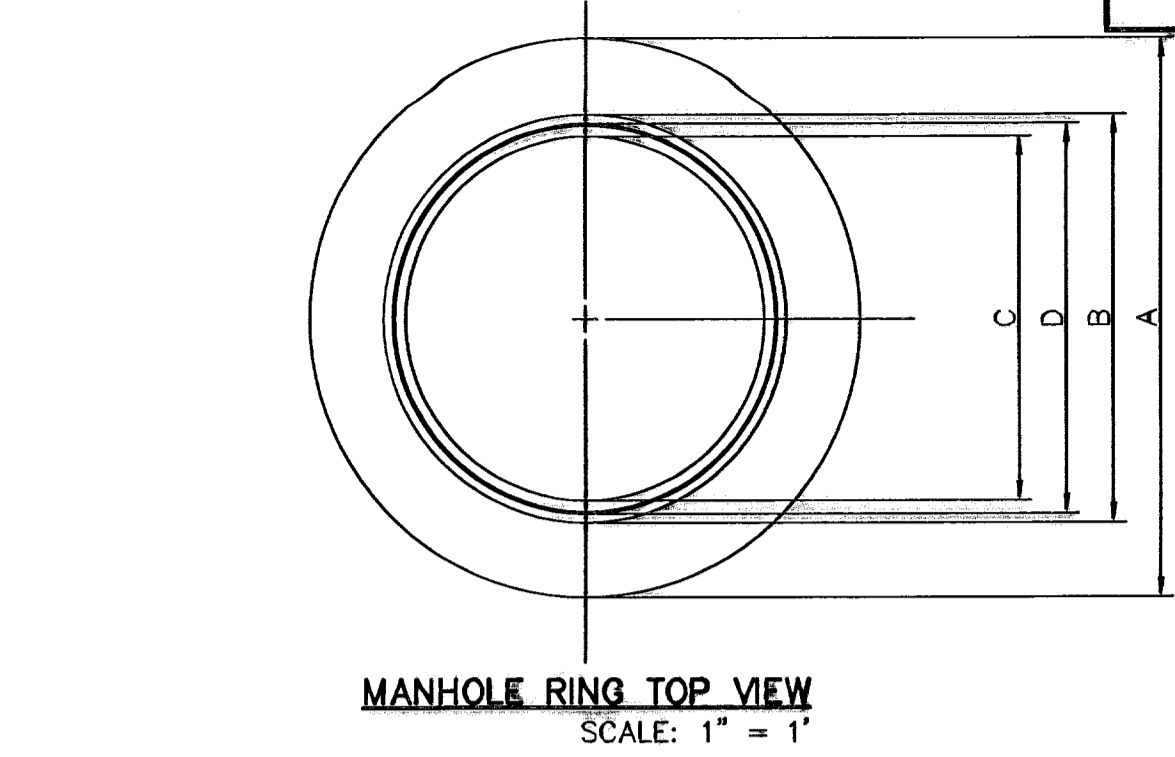
MANHOLE COVER TOP VIEW  
 SCALE: 3/4" = 1'-0"



MANHOLE RING TOP VIEW  
 SCALE: 1" = 1'



MANHOLE COVER SECTION  
 SCALE: 2" = 3'

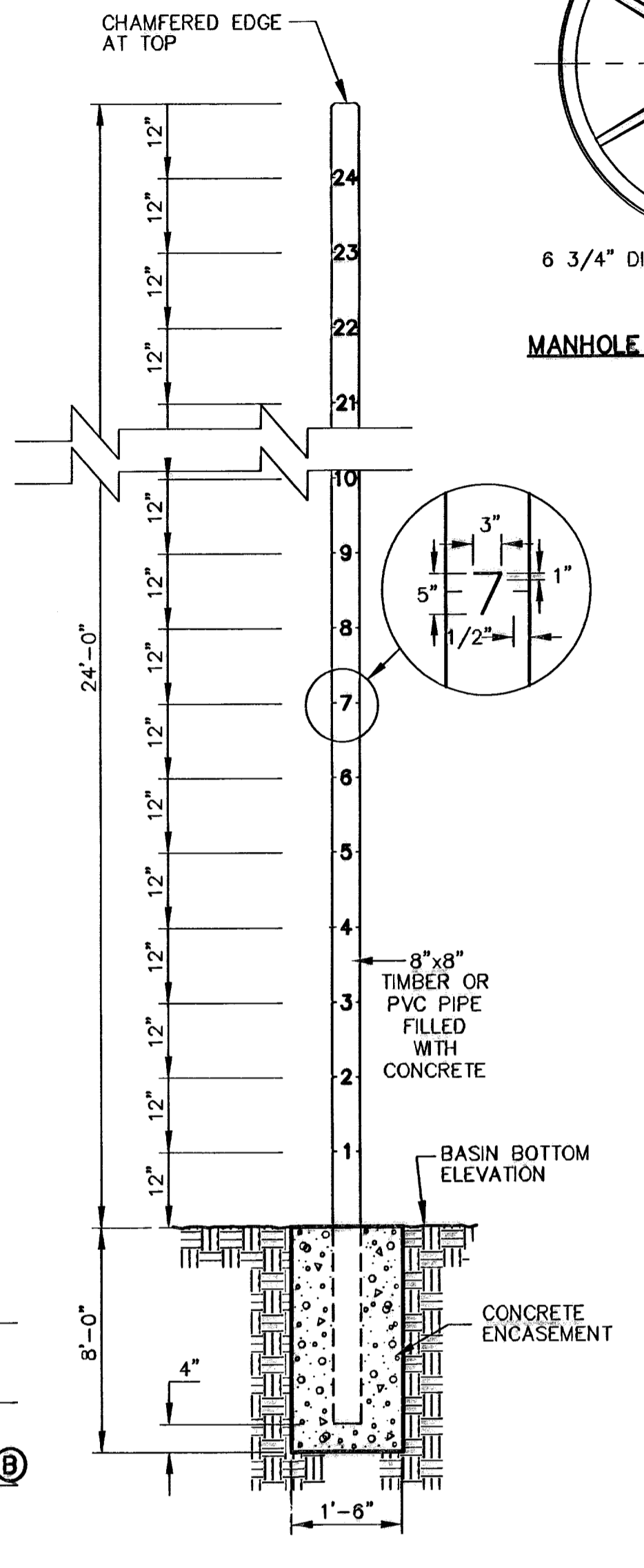


MANHOLE RING SECTION  
 SCALE: 1" = 1'

MANHOLE COVER	48" MANHOLE	72" MANHOLE
WEIGHT	175 LBS.	310 LBS.
A	1'-11" 3/4"	2'-7 1/4"
B	1'-8 5/8"	2'-4 1/8"
C	1'-4 7/8"	2'-3/8"
D	1'-2 3/8"	1'-9 7/8"
E	11 7/8"	1'-3 5/8"

GENERAL NOTES:

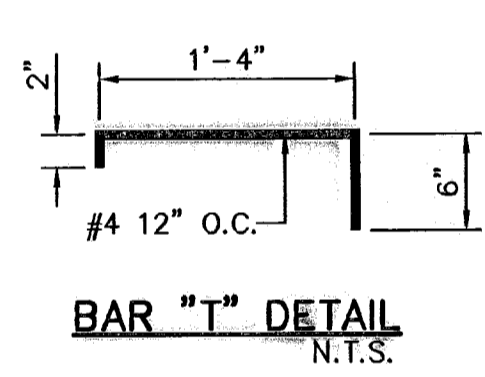
- MATCHING SURFACES MARKED "MF" TO BE MACHINE FINISHED OF ANY IRREGULARITIES THAT WOULD PREVENT A SNUG FIT.
- CASTING TO BE SMOOTH AND VOID OF AIR HOLES.



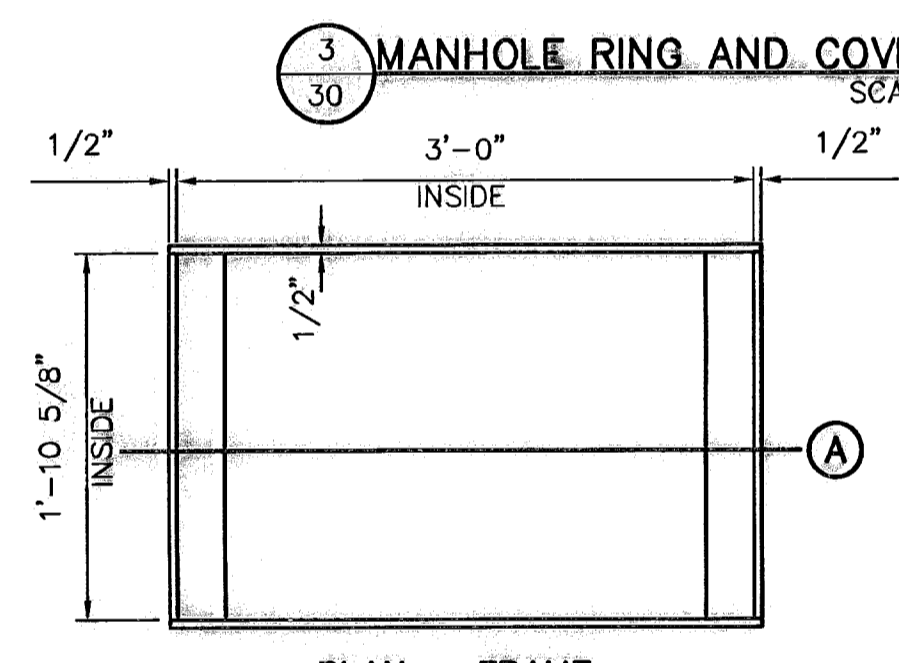
2 WATER DEPTH POLE DETAIL  
 N.T.S.

NO. GRATES	CAPACITY	1" BEAM LENGTH	BEAM (MIN. SIZES)
2	19.63 CFS	5'-1 1/8"	W8x12, S8x12.5, MC6x15.1
3	29.69 CFS	7'-0 1/4"	W8x15, S7x15.3, MC7x17.6
4	39.10 CFS	8'-9 7/8"	W9x18, S8x18.4, MC10x21.9
5	48.72 CFS	10'-8"	W12x18, S8x21, MC10x21.9

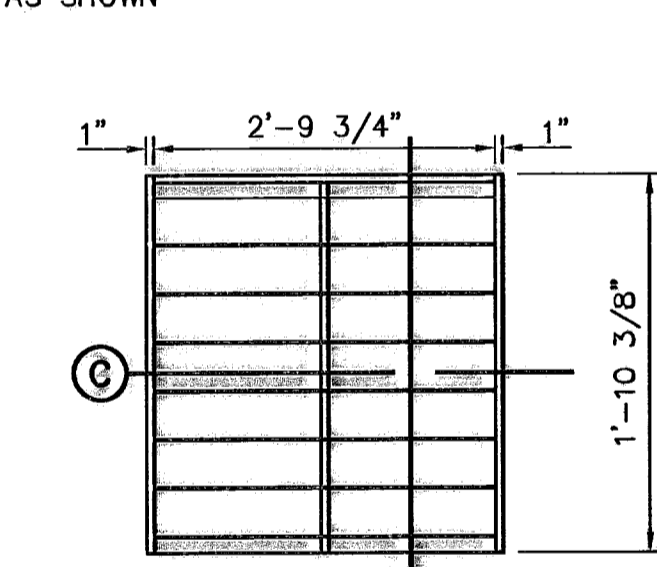
\* THESE CAPACITIES CORRESPOND TO A CLOGGING FACTOR OF 0.5



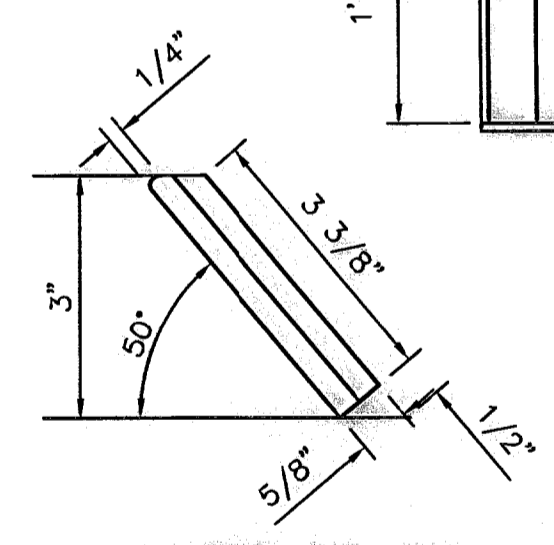
BAR "T" DETAIL  
 N.T.S.



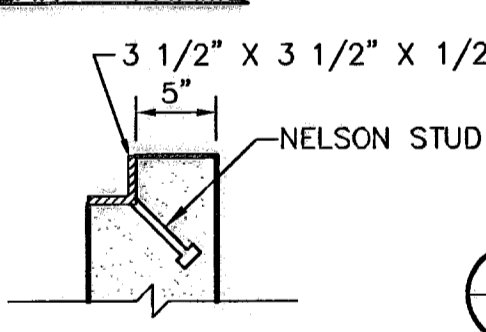
PLAN - FRAME



PLAN - GRATE



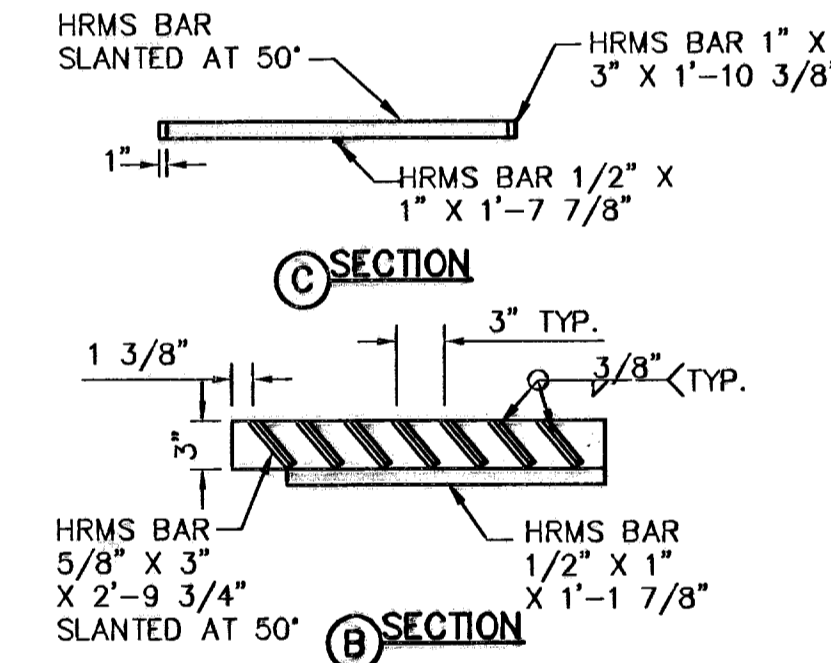
SLANTED BAR DETAIL



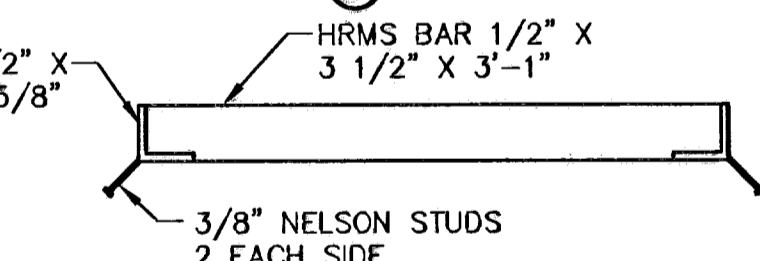
STUD DETAIL



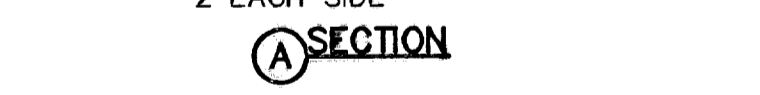
4 GRATE AND FRAME DETAILS  
 SCALE: 1" = 1'-0"



SECTION C



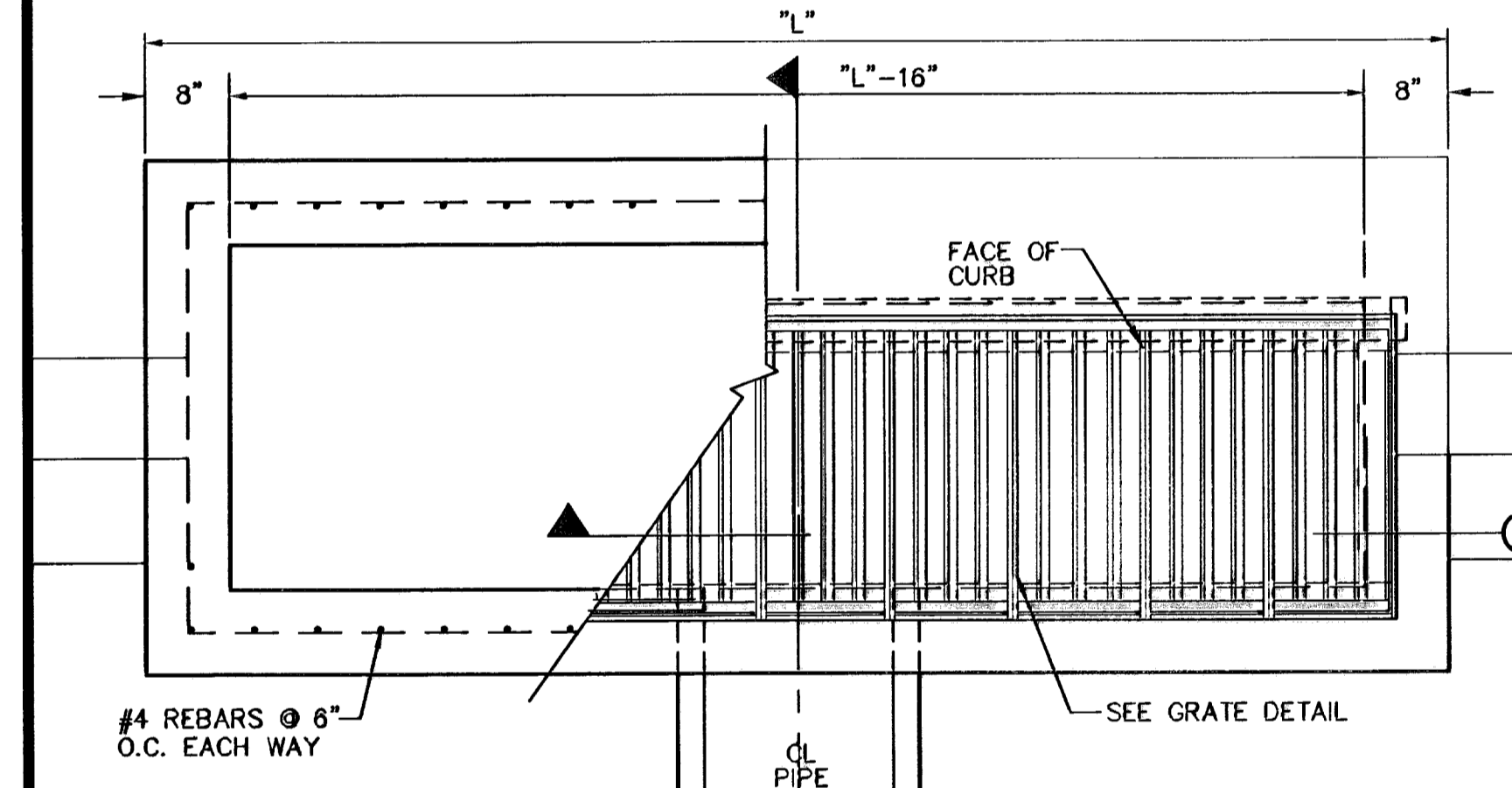
SECTION B



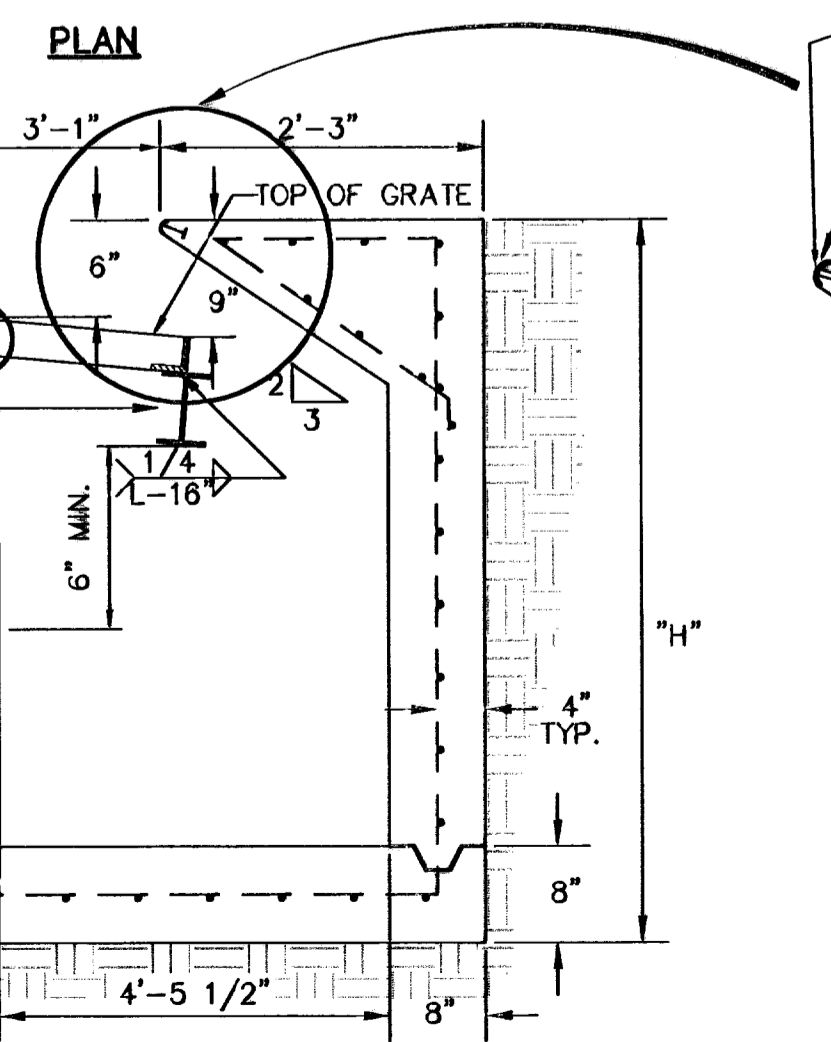
SECTION A

DROP INLET GENERAL NOTES:

- WELDED STEEL OR CAST GRATES AS DETAILED ARE ALL ACCEPTABLE GRATES. MIXING OF ALTERNATE TYPES OF GRATES ON THE SAME PROJECT WILL BE PERMITTED WITH THE APPROVAL OF THE CITY ENGINEER.
- ALL CONSTRUCTION AND MATERIALS SHALL BE IN ACCORDANCE WITH THE CURRENT STANDARD SPECIFICATIONS.
- SHARP EDGES RESULTING FROM FABRICATION SHALL BE DULLED BY ANY ACCEPTABLE METHOD FOR SAFETY IN HANDLING.
- GRATES SHALL BE INSTALLED IN FRAME WITH FLOW ARROW POINTING DOWNSTREAM OR TOWARD THE LOW POINT IN A SUMP.
- WELDED GRATES SHALL BE STRUCTURAL STEEL CONFORMING TO THE REQUIREMENTS OF AASHTO M-183 OR OF CORROSION RESISTANT STRUCTURAL STEEL CONFORMING TO THE REQUIREMENTS OF AASHTO M-161 OR M-222 OR BE MADE OF OTHER APPROVED STEELS OF EQUAL QUALITY. MIXING GRADES OF STEEL ON THE SAME GRATE WILL NOT BE PERMITTED.
- GRATES MADE OF M-183 STEEL SHALL BE GALVANIZED IN ACCORDANCE WITH AASHTO M-111 SPECIFICATIONS OR SHALL BE PAINTED WITH INORGANIC ZINC PAINTS, MEETING THE REQUIREMENTS OF CURRENT STANDARD SPECIFICATIONS.
- ALL WELDS SHALL HAVE 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 COMPRISE THE GRATE MEMBERS.
- CAST GRATES SHALL BE CAST STEEL CONFORMING TO THE REQUIREMENTS OF AASHTO M-103, GRADE 65-35 OR OF DUCTILE IRON CONFORMING TO THE REQUIREMENTS OF ASTM A-536, SPECIAL GRADE 60-45, OR OF GRAY IRON CONFORMING TO THE REQUIREMENTS OF AASHTO M-105, CLASS 35B OR ASTM A-48 CLASS 35B. THE SPECIFICATIONS OF GENERAL APPLICATION FOR CAST STEEL GRATES SHALL BE AASHTO M-103 SCOPE 1.2.1, GRADE N-1.
- FERROUS CASTINGS SHALL BE OF UNIFORM QUALITY, FREE OF BLOWHOLES, POROSITY, HARD SPOTS, SHRINKAGE 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 ASPHALT BASE PAINT RESULTING IN A SMOOTH COATING, TOUGH AND TENACIOUS WHEN COLD, NOT TACKY OR BRITTLE.
- ALL CASTING SHALL BE MANUFACTURED TRUE TO PATTERN. COMPONENT PARTS SHALL FIT TOGETHER IN A SATISFACTORY MANNER.
- ALL CONCRETE TO BE 3000 PSI. CHAMFER ALL EXPOSED EDGES 3/4". ALL DIMENSIONS RELATING TO REINFORCING STEEL ARE TO CENTER OF BARS.
- MINIMUM CONCRETE COVER SHALL BE 1 1/2" FOR STEEL REINFORCING.
- EXPANSION MATERIAL TO BE 1/2" BITUMINOUS FIBER AND PLACED WHERE PROPOSED CONCRETE COMES IN CONTACT WITH ANY EXISTING OR PROPOSED CONCRETE OR MASONRY STRUCTURE.
- STRUCTURAL STEEL SHALL BE SHOP PAINTED IN ACCORDANCE WITH TxDOT ITEM 446 "PAINT AND PAINTING"
- SURFACE OF ALL EXPOSED CONCRETE SHALL CONFORM IN SLOPE AND GRADE TO EXISTING OR PROPOSED CURB AND WALK ADJACENT TO INLETS.
- GRATES WILL BE DEPRESSED 1" BELOW PROPOSED OR EXISTING GRADE.
- ALL REINFORCING BARS TO BE #4 BARS AT 6" O.C. GRADE 60. BEND BARS AROUND PIPE OPENINGS.
- INLETS TO BE DESIGNATED IN PLANS BY NUMBER OF GRATES REQUIRED.
- LOCATION OF SEWER PIPES SHOWN ELSEWHERE IN PLANS.
- TWO 3/8"x4" LONG CONCRETE ANCHOR STUDS REQUIRED FOR EACH SIDE OF FRAME, WHERE RESTING ON CONCRETE, USE NELSON STUDS OR EQUAL.
- THE GRATES OF ALL INLETS WITHIN THE STREET PAVEMENT MUST BE CONSTRUCTED WITH THE GRATE BARS PERPENDICULAR TO THE CURB.

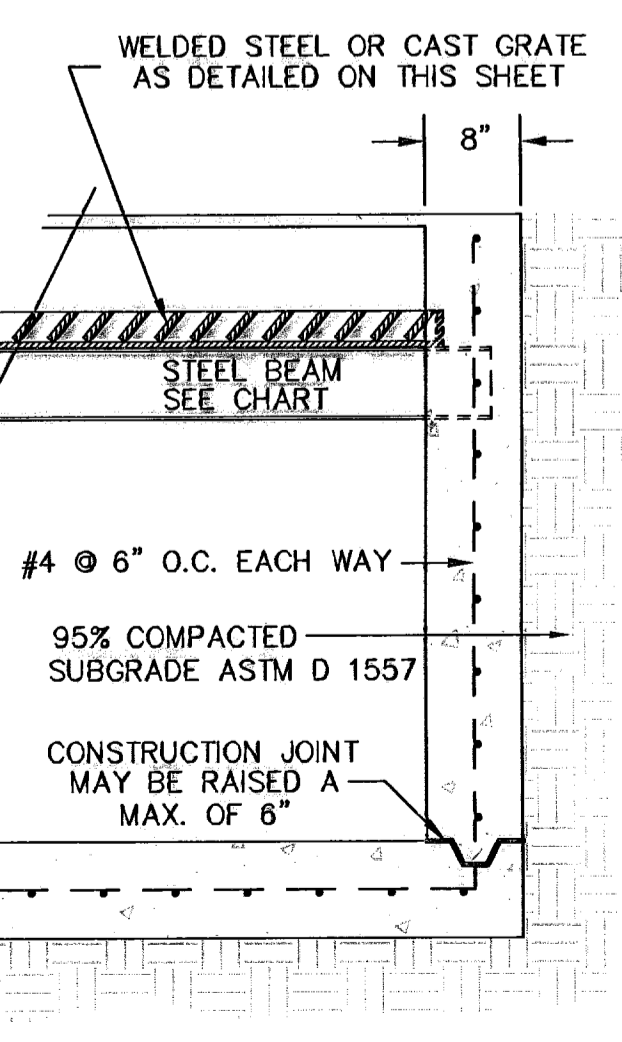


- NOTES:
- GRATES TO BE PERPENDICULAR TO TRAFFIC
  - CONCRETE TO BE 3,000 PSI (MINIMUM). CORE TEST @ 28 DAYS.
  - H=20' MAXIMUM



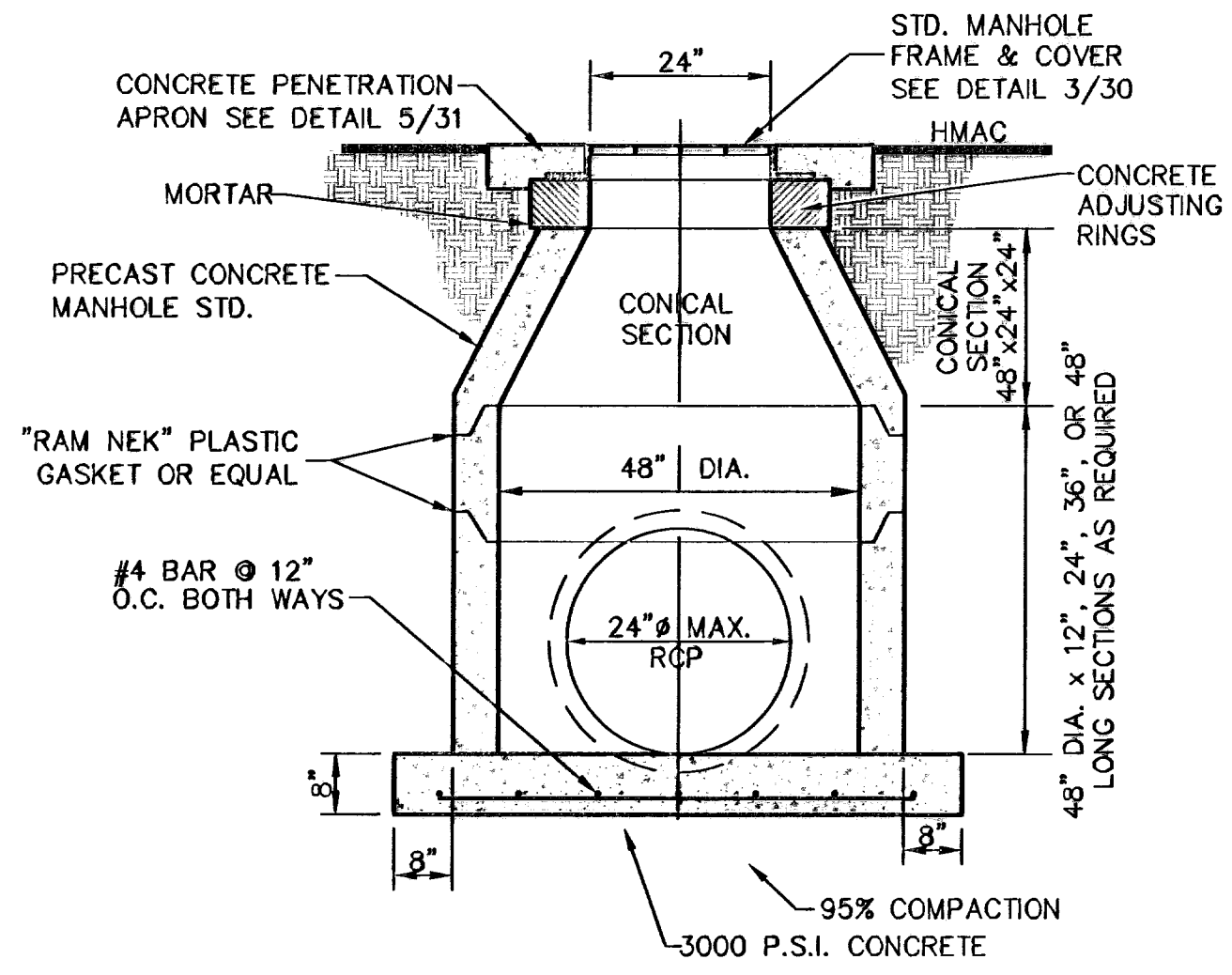
A SECTION

5 DROP INLET (TYPE 1) DETAILS  
 SC: 3/4" = 1'-0"

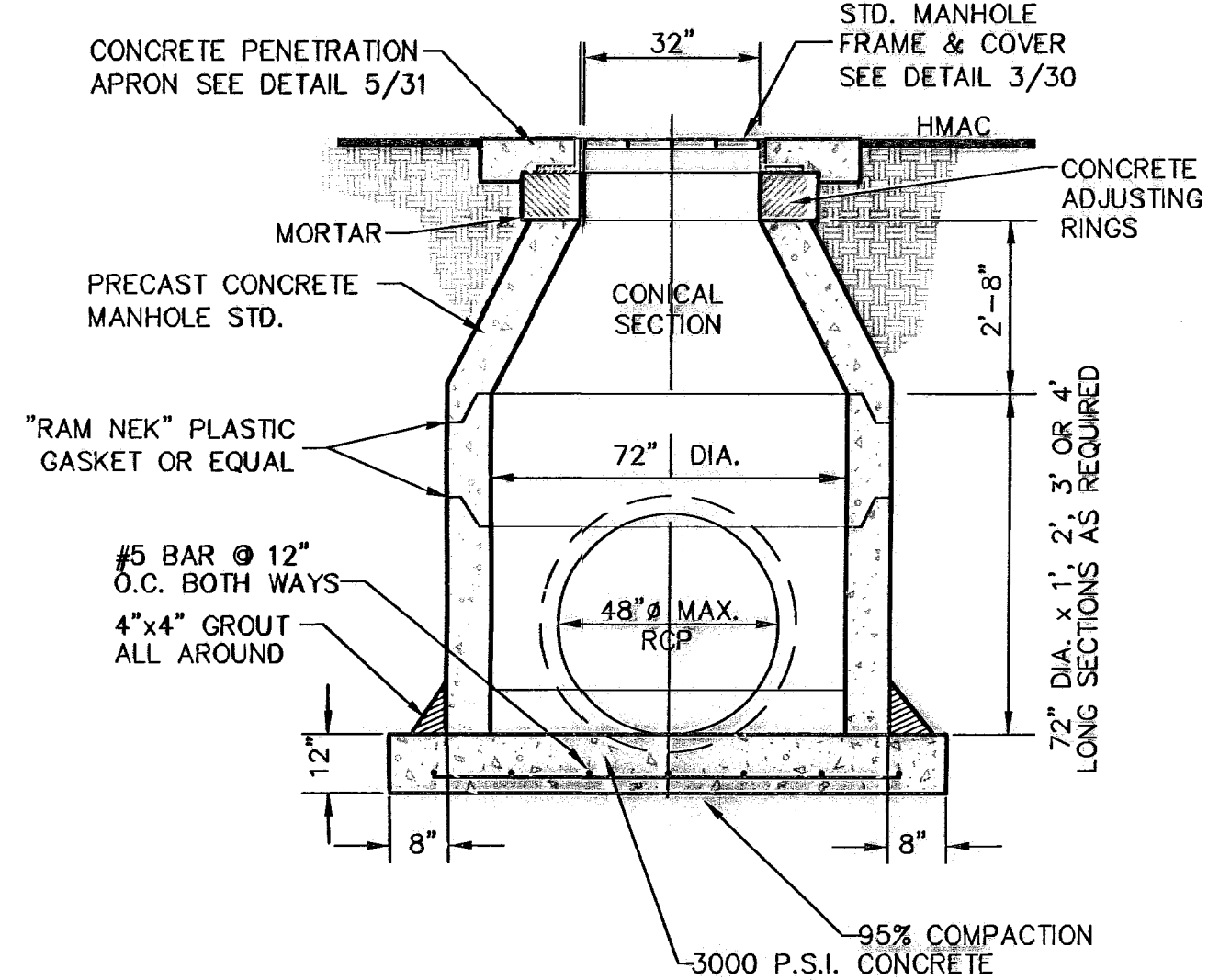


B SECTION



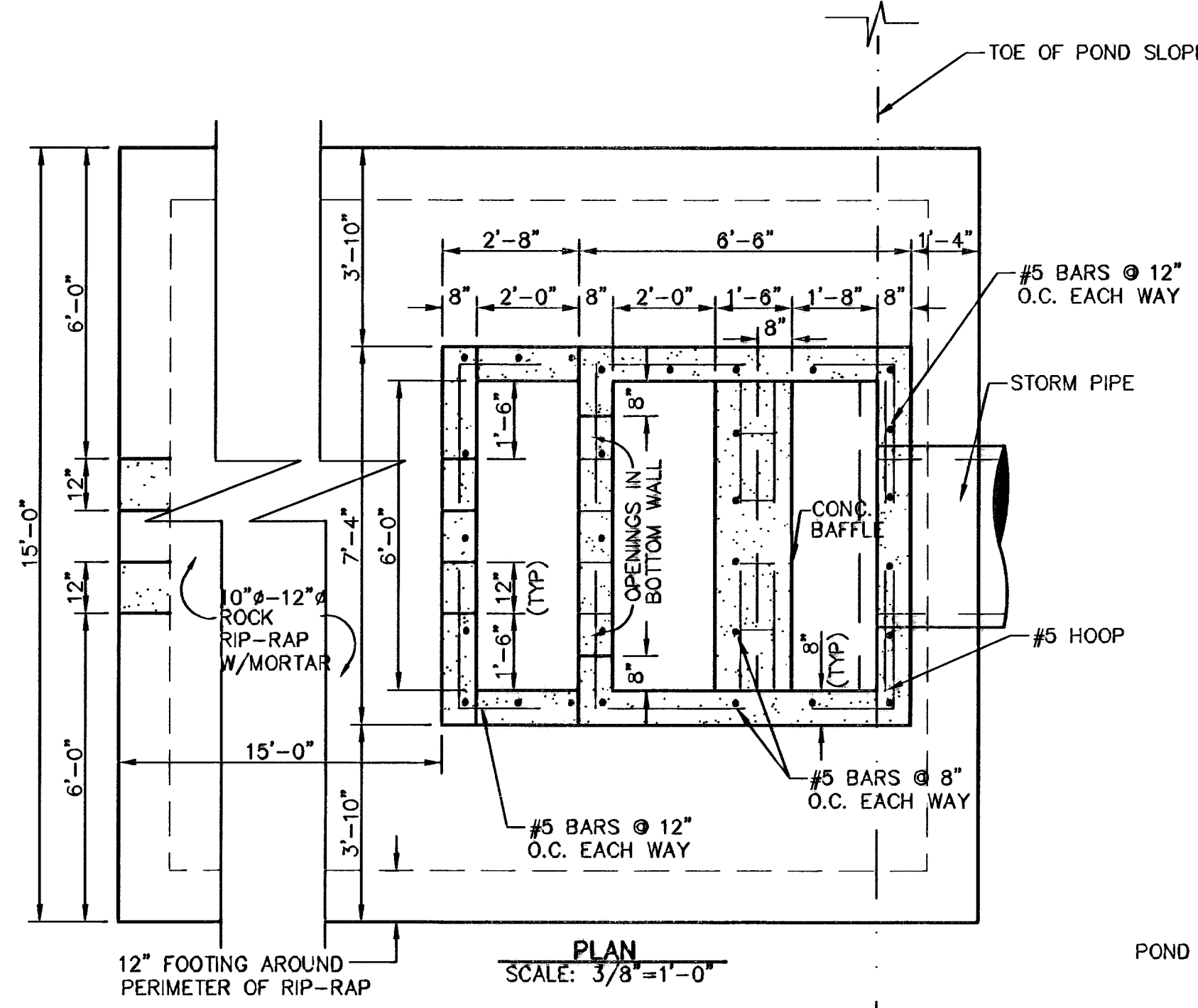


1 48" STANDARD MANHOLE DETAIL  
 31 N.T.S.

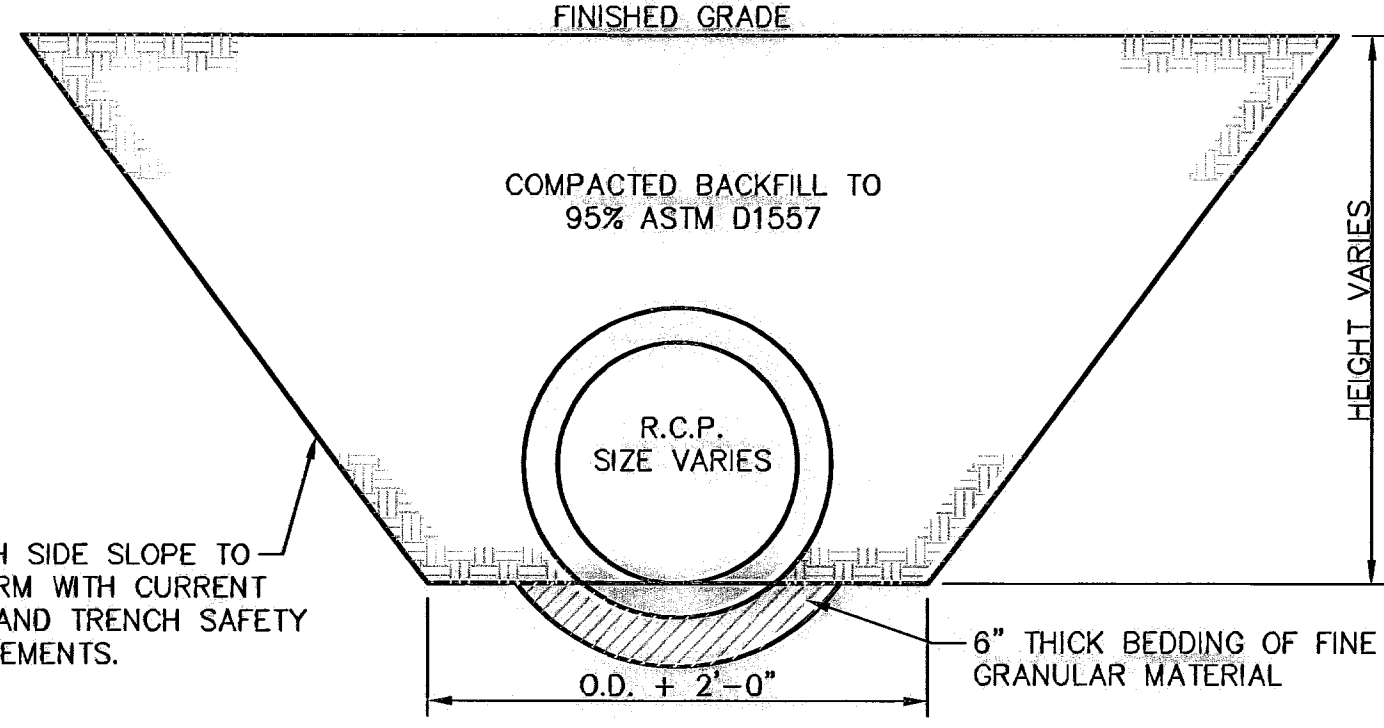


2 72" STANDARD MANHOLE DETAIL  
 31 N.T.S.

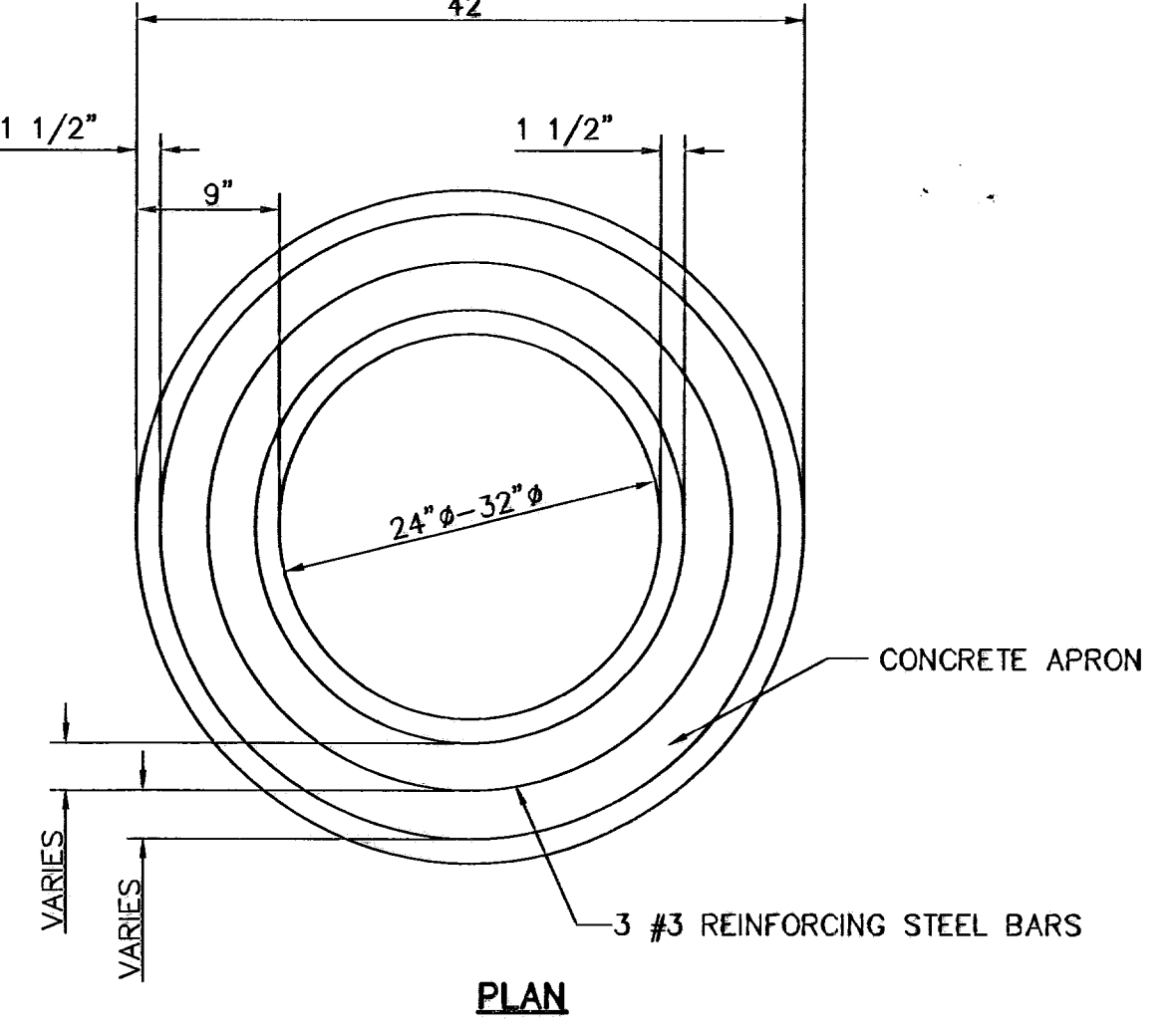
NOTE: 95% COMPACTION AS PER ASTM D-1557 UNDER ALL CONCRETE STRUCTURES.



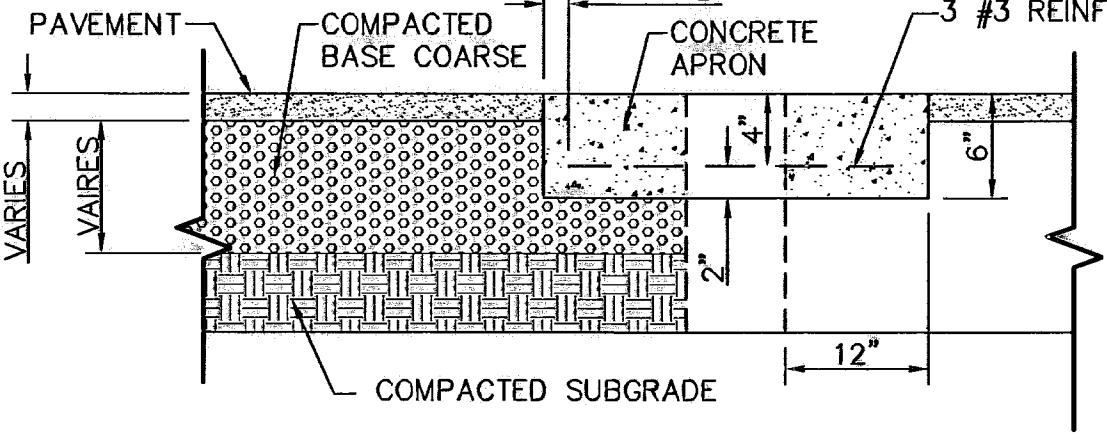
3 CONCRETE THRUST BLOCK STRUCTURE DETAIL  
 31 SCALE: 3/8"=1'-0"



4 STORM SEWER BEDDING DETAIL  
 31 SCALE: 1/2"=1'-0"



5 PENETRATION APRON DETAILS  
 31 SCALE: N.T.S.



5 PENETRATION APRON DETAILS  
 31 SCALE: N.T.S.

**CONSTRUCTION NOTES:**

1. ANY DISTURBED SUBGRADE UNDER THE CONCRETE APRON SHALL BE COMPACTED TO 95% DENSITY  $\pm 3\%$  OPTIMUM MOISTURE CONTENT IN ACCORDANCE WITH ASTM D-1557.
2. ANY DISTURBED COARSE UNDER THE CONCRETE APRON SHALL BE COMPACTED TO 100% DENSITY  $\pm 2\%$  OPTIMUM MOISTURE CONTENT IN ACCORDANCE WITH ASTM D-1557.
3. PROVIDE A MINIMUM OF 1 1/2" OF CONCRETE COVER FOR ALL REINFORCEMENT STEEL.
4. REINFORCING SHALL MEET ASTM C-478 AND TRAFFIC LOADING (HS-20).
5. NO. 3 REINFORCING STEEL HOOPS SHALL BE SPACED EQUALLY.

**GENERAL NOTES:**

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

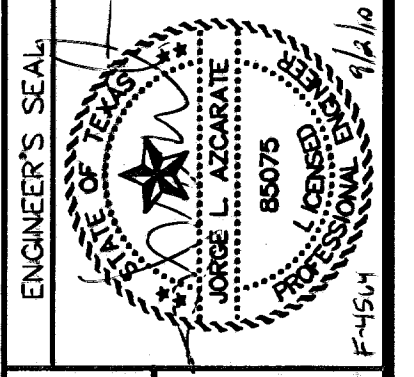
REFERENCES - BENCHMARKS

CITY MONUMENT AT POINT OF CURVE  
 CENTER OF CURVE  
 DISTANCE OF POINT FROM CENTER  
 SOUTHERLY RIGHT OF WAY LINE OF MONTANA AVENUE CITY DATUM  
 ELEVATION.....4005.40

DATE.....  
 REVISIONS.....  
 BY.....

**osa**  
 GROUP  
 engineers • architects • planners

Customer Center @ Transmountain  
 11000 West 11th Avenue, Suite 100  
 Denver, CO 80202  
 Phone: 303.755.4422 Fax: 303.755.4423 www.osagroup.com



SCALE: N/A  
 Horizontal: N/A  
 Vertical: N/A  
 Contour Interval: N/A

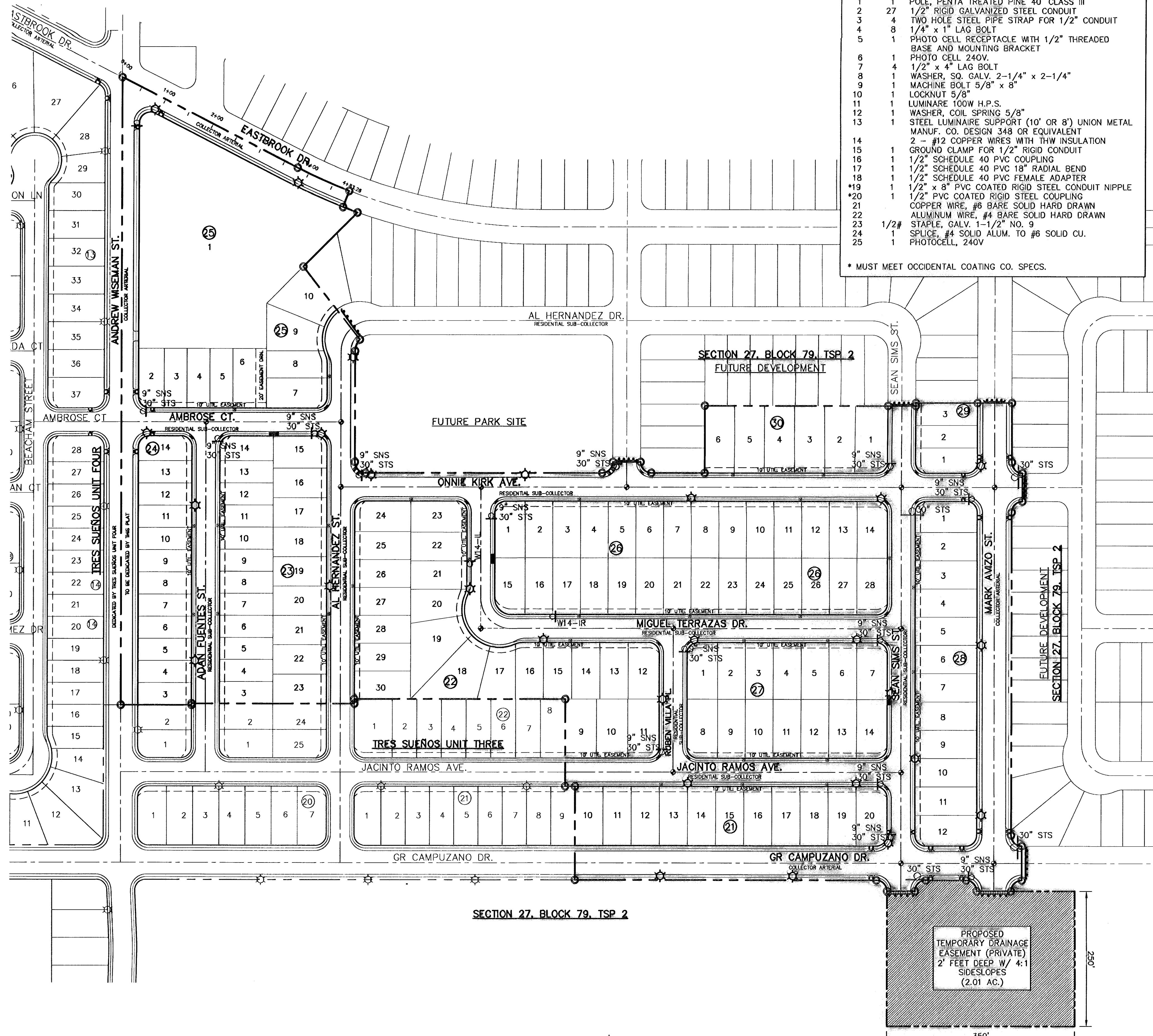
DATE: MARCH 2009  
 DESIGN BY: J.G.  
 DRAWN BY: J.L.A.  
 CHKD. BY: J.L.A.  
 APPVD. BY: J.L.A.

JOB No. 2000-100 LD F-1514

PROJECT TITLE  
**TRES SUEÑOS UNIT SIX  
 SUBDIVISION IMPROVEMENTS**

SHEET TITLE  
**DRAINAGE DETAILS**

(SHEET 2 OF 2)  
 SHEET NO.



ITEM	QTY.	DESCRIPTION
1	1	POLE, PENTA TREATED PINE 40' CLASS III
2	27	1/2" RIGID GALVANIZED STEEL CONDUIT
3	4	TWO 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 240V.
7	4	1/2" x 4" LAG BOLT
8	1	WASHER, SQ. GALV. 2-1/4" x 2-1/4"
9	1	MACHINE BOLT 5/8" x 8"
10	1	LOCKNUT 5/8"
11	1	LUMINAIRE 100W H.P.S.
12	1	WASHER, COIL SPRING 5/8"
13	1	STEEL LUMINAIRE SUPPORT (10' OR 8') UNION METAL MANUF. CO. DESIGN 348 OR EQUIVALENT
14	2	#12 COPPER WIRES WITH THW INSULATION
15	1	GROUND CLAMP FOR 1/2" RIGID CONDUIT
16	1	1/2" SCHEDULE 40 PVC COUPLING
17	1	1/2" SCHEDULE 40 PVC 18" RADIAL BEND
18	1	1/2" SCHEDULE 40 PVC FEMALE ADAPTER
*19	1	1/2" x 8" PVC COATED RIGID STEEL CONDUIT NIPPLE
*20	1	1/2" PVC COATED RIGID STEEL COUPLING
21		COPPER WIRE, #6 BARE SOLID HARD DRAWN
22		ALUMINUM WIRE, #4 BARE SOLID HARD DRAWN
23	1/2#	STAPLE, GALV. 1-1/2" NO. 9
24	1	SPLICE, #4 SOLID ALUM. TO #6 SOLID CU.
25	1	PHOTOCELL, 240V

\* MUST MEET OCCIDENTAL COATING CO. SPECS.

UTILITY LOCATOR SERVICES	
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MGI SURVEILLANCE	(800) MGI-WORK
PARAGON CABLE	(915) 772-1123
TEXAS GAS CO.	(915) 544-6300
SOUTHWESTERN BELL TELEPHONE	(800) 828-5127
AT&T	(800) 852-3786
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FOR FIELD LOCATING EXISTING UTILITIES

**RECORD DRAWINGS**

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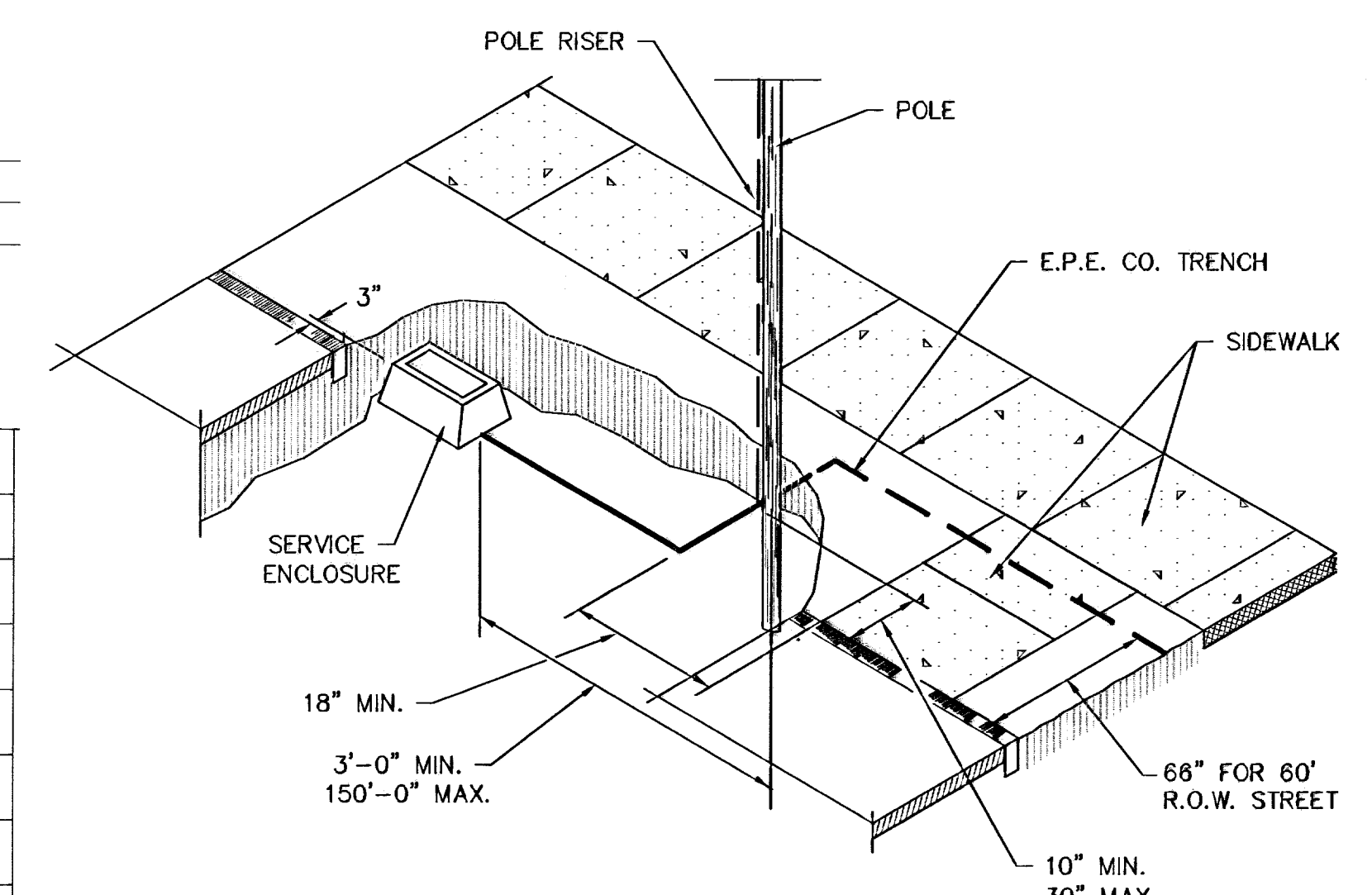
09/01/10

**LEGEND:**

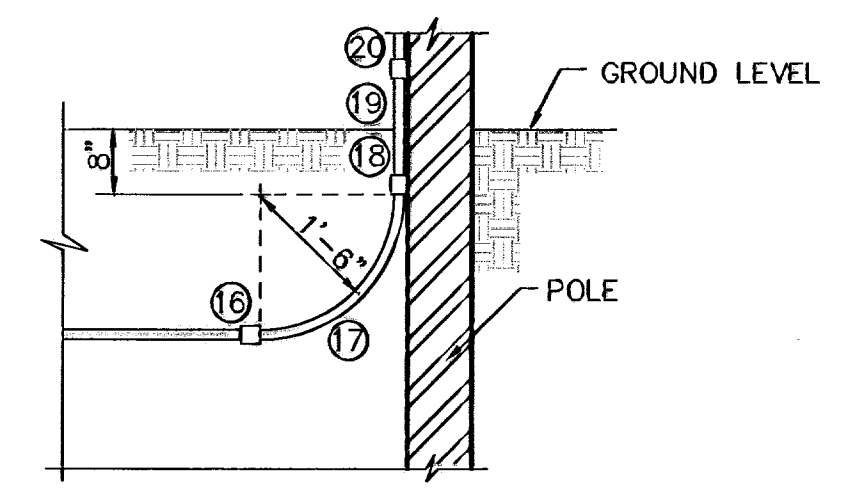
- ☼ EXISTING RESIDENTIAL STREET LIGHT
- ☼ PROPOSED RESIDENTIAL STREET LIGHT
- ⊕ PROPOSED 9" STREET NAMES AND 30" STOP SIGN
- ☐ PROPOSED N.D.B.C.U. MAIL BOX
- ⊕ 30" STOP SIGN
- ▬ PROPOSED TEMPORARY GUARD RAIL

**NOTE**

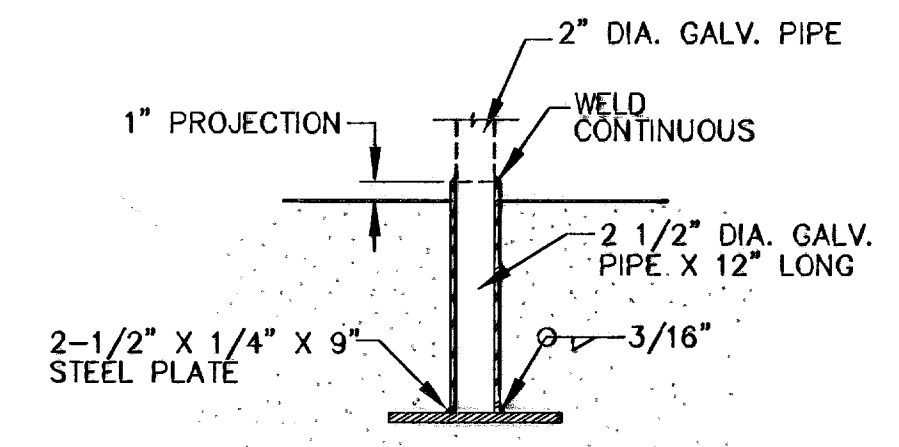
1. TRAFFIC STREET SIGNS MUST BE OF HIGH INTENSITY REFLECTIVE SHEETING.



**POLE LOCATION DETAIL**  
SCALE: 1"=8'-0"

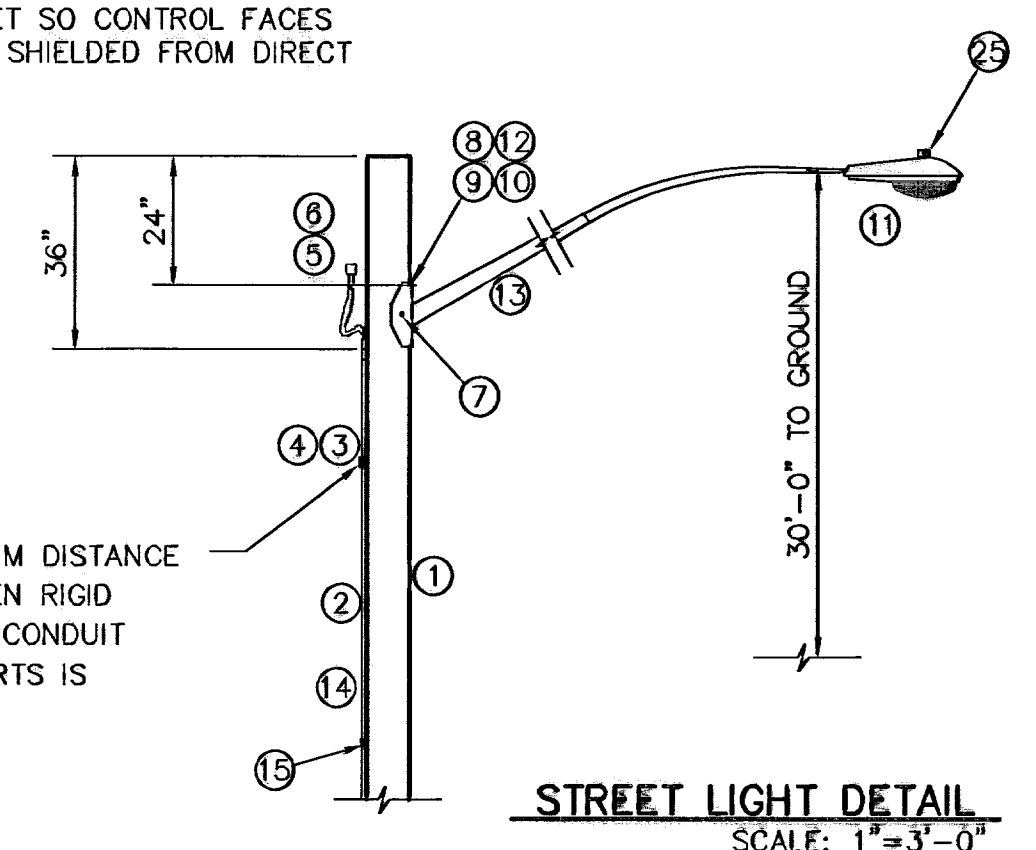


**POLE RISER DETAIL**  
SCALE: 1"=2'-0"



**POST SLEEVE DETAIL**  
SCALE: 1"=1'-0"

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



**STREET LIGHT DETAIL**  
SCALE: 1"=3'-0"

MAXIMUM DISTANCE BETWEEN RIGID METAL CONDUIT SUPPORTS IS 10 FT.

**ILLUMINATION AND SIGNAGE PLAN**  
SCALE: 1"=100'

REFERENCES - BENCHMARKS

CITY MONUMENT AT POINT OF CURVE CENTERLINE RICH BEEM BLVD., S08°43'31" E A DISTANCE OF 100.00 FEET FROM THE SOUTHWEST CORNER OF THE RIGHT OF WAY LINE OF MONTANA AVENUE, CITY DATUM ELEVATION: 4005.40

DATE: \_\_\_\_\_ REVISIONS: \_\_\_\_\_ BY: \_\_\_\_\_

**osa**  
engineers • architects • planners  
Custiner Center @ Transmountain  
4712 Woodrow Bean, Ste. F El Paso, TX 79904  
Office: 915.544.4444 Fax: 915.544.4444 www.osagroup.com

ENGINEER'S SEAL

SCALE: Horizontal: 1"=100'  
Vertical: N/A  
Contour Interval: N/A

DATE: MARCH 2009  
DESIGN BY: J.G.  
DRAWN BY: J.L.A.  
CHKD. BY: J.L.A.  
APPVD. BY: J.L.A.  
JOB No.: 2000-100 LD

PROJECT TITLE

**TRES SUEÑOS UNIT SIX  
SUBDIVISION IMPROVEMENTS**

SHEET TITLE

**ILLUMINATION AND SIGNAGE PLAN**

SHEET NO.

**32**

OF 36

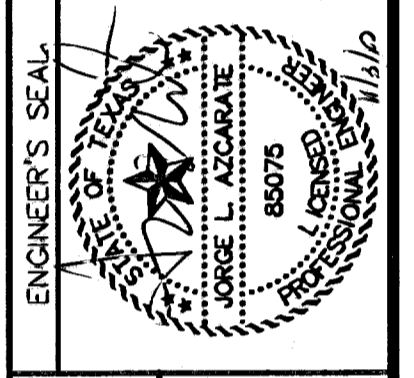
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11/03/10

REFERENCES - BENCHMARKS  
CITY MONUMENT AT POINT OF CURVE  
CENTERLINE RICH BEEM BLVD., 508+33.31' E A  
DISTANCE OF 467.55 FEET FROM THE  
INTERSECTION OF WAY LINE OF MONTANA  
AVENUE TO CITY DATUM - 4005.40  
DATE REVISIONS BY

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Office: 915.544.5222 Fax: 915.544.5223 www.osagroup.net



SCALE: 1" = 30'  
Horizontal: 1" = 5'  
Vertical: 1" = 5'  
Contour Interval: N/A  
DATE: MARCH 2009  
DESIGN BY: J.G.  
DRAWN BY: D.N.  
CHKD. BY: J.L.A.  
APPVD. BY: J.L.A.  
JOB No. - 2000-100.LD

PROJECT TITLE  
**TRES SUEÑOS UNIT SIX  
SUBDIVISION IMPROVEMENTS**

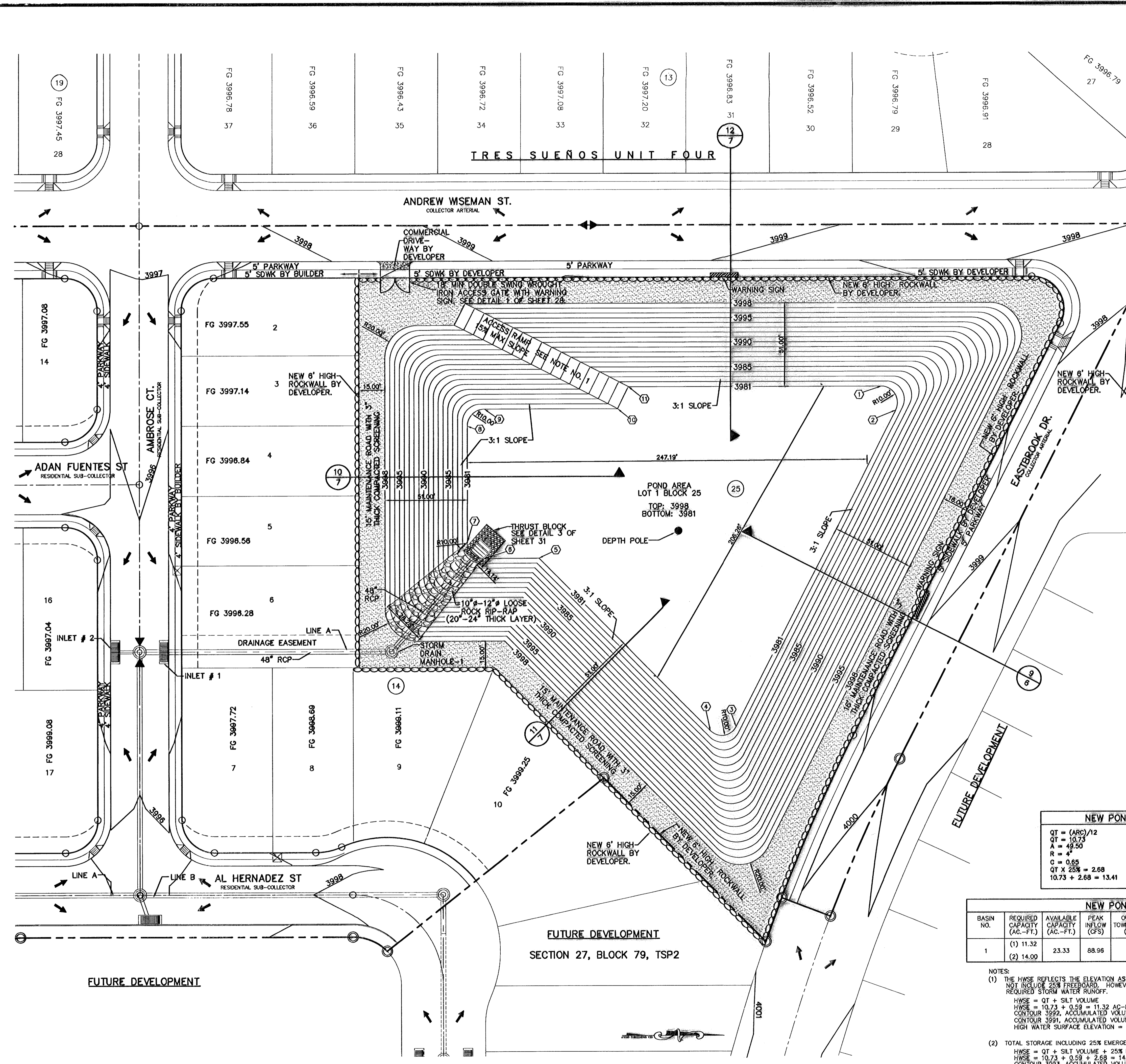
SHEET TITLE

POND DESIGN PLAN

SHEET NO.

33

OF 36



- LEGEND:**
- NEW 6" HIGH ROCKWALL BY DEVELOPER
  - 3" THICK COMPACTED SCREENING
  - 10" - 12" LOOSE ROCK RIP-RAP

- NOTES:**
- 15' WIDE POND ACCESS RAMP SHALL HAVE A MINIMUM P.I. OF 8 WITH NO LOOSE MATERIAL AND A MINIMUM 95% COMPACTION PER ASTM-D1557.
  - POND ROCKWALL/RETAINING WALL SHALL BE BUILT TO A 6" MIN. HEIGHT FROM THE HIGHEST GROUND.
  - PROPOSED ROCKWALLS & RETAINING WALL LOCATIONS SHALL BE CONSTRUCTED ACCORDING TO GRADING SECTIONS.

KEY #	NORTH	EAST
①	N 63020.1692	E 52497.5183
②	N 63029.0751	E 52512.0833
③	N 62930.0832	E 52705.9657
④	N 62914.0879	E 52708.4720
⑤	N 62808.2725	E 52602.1248
⑥	N 62774.1048	E 52602.1231
⑦	N 62784.1053	E 52592.1225
⑧	N 62784.1090	E 52521.4248
⑨	N 62774.8358	E 52510.8991
⑩	N 62857.2833	E 52510.9033
⑪	N 62864.0339	E 52497.5083

**NEW POND CALCULATIONS**

QT = (ARC)/12	SILT VOLUME = 0.59
QT = 10.73	0.012 AC-FT/AC
A = 49.50	13.41 + 0.59 = 14.00 AC-FT
R = 4'	
C = 0.65	<b>TOTAL<sub>req</sub> = 14.00 AC-FT</b>
QT X 25% = 2.68	
10.73 + 2.68 = 13.41	

**NEW POND CALCULATIONS**

BASIN NO.	REQUIRED CAPACITY (AC.-FT.)	AVAILABLE CAPACITY (AC.-FT.)	PEAK INFLOW (CFS)	OUTLET TOWER FLOW (CFS)	HIGH WATER SURFACE ELEV. (FT.)	BOTTOM ELEVATION	FREE BOARD (FT.)	TOP ELEVATION
1	(1) 11.32	23.33	88.96	0	(1) 3991.15	3981.00	(1) 8.85	3998.00
	(2) 14.00				(2) 3992.89		(2) 5.11	

**NEW POND AREAS**

CONTOUR ELEVATION	ACCUMULATED VOLUME (AC.-FT.)
3998	23.33
3997	21.32
3996	19.41
3995	17.59
3994	15.84
3993	14.18
3992	12.60
3991	11.10
3990	9.68
3989	8.33
3988	7.05
3987	5.84
3986	4.71
3985	3.64
3984	2.63
3983	1.69
3982	0.81
3981	0.00

**NOTES:**

- THE HWSE REFLECTS THE ELEVATION AS REQUIRED BY THE CITY OF EL PASO. THE HWSE DOES NOT INCLUDE 25% FREEBOARD. HOWEVER, THE TOTAL POND CAPACITY SHALL HOLD TOTAL REQUIRED STORM WATER RUNOFF.  
HWSE = QT + SILT VOLUME  
HWSE = 10.73 + 0.59 = 11.32 AC-FT  
CONTOUR 3992, ACCUMULATED VOLUME = 12.60 AC-FT  
CONTOUR 3991, ACCUMULATED VOLUME = 11.10 AC-FT  
HIGH WATER SURFACE ELEVATION = 3991.15
- TOTAL STORAGE INCLUDING 25% EMERGENCY (REFERENCE ONLY)  
HWSE = QT + SILT VOLUME + 25% EMERGENCY  
HWSE = 10.73 + 0.59 + 2.68 = 14.00 AC-FT  
CONTOUR 3993, ACCUMULATED VOLUME = 14.18 AC-FT  
CONTOUR 3992, ACCUMULATED VOLUME = 12.60 AC-FT  
HIGH WATER SURFACE ELEVATION = 3992.89

**POND DESIGN PLAN**  
SCALE: 1" = 30'

**SITE DESCRIPTION**

PROJECT NAME AND LIMITS: TRES SUEÑOS UNIT SIX  
 THE PROJECT IS BORDERED BY SECTION 27, BLOCK 79, TOWNSHIP 2, SURVEYS,  
 TRES SUEÑOS UNIT THREE TO THE SOUTH, AND TRES SUEÑOS UNIT FOUR TO THE WEST.

PROJECT DESCRIPTION: THE SITE FOR THE NEW SUBDIVISION WILL ENCOMPASS APPROXIMATELY  
30.19± ACRES, AND WILL CONTAIN 138 RESIDENTIAL LOTS AND 1 PONDING AREA.

EXISTING CONDITIONS: THE SITE IS CLEAR OF SITE IMPROVEMENTS AND IS COVERED WITH ITS  
NATURAL SURROUNDINGS. EXISTING RUNOFF IS TO THE NORTHWEST.

MAJOR SOIL DISTURBING ACTIVITIES: MAJOR SOIL DISTURBING ACTIVITIES WILL CONSIST OF CLEARING  
AND GRUBBING, GRADING FOR BUILDING PAD ELEVATIONS, CONSTRUCTION OF STREETS AND  
EXCAVATION FOR UTILITIES.

TOTAL PROJECT AREA: 30.19±

TOTAL AREA TO BE DISTURBED: 30.19±

WEIGHTED RUNOFF COEFFICIENT  
 (AFTER CONSTRUCTION): 0.65

EXISTING CONDITION OF SOIL AND VEGETATIVE  
 COVER AND % OF EXISTING VEGETATIVE COVER: THE PROJECT SITE IS LOCATED IN THE VICINITY OF THE  
HUECO-WINK ASSOCIATION. THE SOIL IS NEARLY LEVEL AND GENTLY SLOPING THAT HAVE  
A FINE SANDY LOAM SUBSOIL AND ARE MODERATELY DEEPR OVER CALICHE; IN THE HUECO  
BOLSON. THIS ASSOCIATION OCCUPIES A LARGE AREA.

NAME OF RECEIVING WATERS: THE MAJORITY OF THE STORM RUNOFF FROM THE NEW SUBDIVISION WILL BE  
DISCHARGED TO A STORM SEWER SYSTEM INTO A PROPOSED RETENTION BASIN.

**EROSION AND SEDIMENT CONTROL**

SOIL STABILIZATION PRACTICES

- TEMPORARY SEEDING
- PERMANENT PLANTING, SODDING, OR SEEDING
- MULCHING
- SOIL RETENTION BLANKET
- BUFFER ZONES
- PRESERVATION OF NATURAL RESOURCES

OTHER: \_\_\_\_\_

STRUCTURAL PRACTICES:

- SILT FENCES
- HAY BALES
- EARTHEN BERMS
- DIVERSION, INTERCEPTOR, OR PERIMETER DIKES
- DIVERSION, INTERCEPTOR, OR PERIMETER SWALES
- DIVERSION DIKE AND SWALE COMBINATION
- PIPE SLOPE DRAINS
- CONCRETE FLUMES
- ROCK BEDDING AT CONSTRUCTION EXIT
- TIMBER MATTING AT CONSTRUCTION EXIT
- CHANNEL LINERS
- SEDIMENT TRAPS
- SEDIMENT BASINS
- STORM INLET SEDIMENT TRAP
- STONE OUTLET STRUCTURES
- CURBS AND GUTTERS
- STORM DRAINS
- VELOCITY CONTROL DEVICES
- VEGETATED SWALES & NATURAL DEPRESSIONS

OTHER: \_\_\_\_\_

NARRATIVE - SEQUENCE OF CONSTRUCTION (STORM WATER MANAGEMENT) ACTIVITIES: \_\_\_\_\_  
 1. INSTALL TEMPORARY EROSION AND SEDIMENT CONTROLS (e.g. SILT FENCE AND/OR  
 EARTHEN BERM, AND STABILIZED CONSTRUCTION ENTRANCE) ;  
 2. PERFORM CLEARING AND GRUBBING;  
 3. EXCAVATION FOR UTILITIES;  
 4. COMPLETE STREET AND LOT GRADING;  
 5. CONSTRUCTION OF SUBDIVISION IMPROVEMENTS; AND INCLUDING UTILITIES  
 6. WHEN ALL CONSTRUCTION ACTIVITY RELATED IN DEVELOPMENT OF THE SITE IS  
 COMPLETE, REMOVE TEMPORARY CONTROLS IN 1. ABOVE.

**SWPPP GENERAL NOTES:**

1. PLACEMENT OF SILT FENCE SHALL BE ADJUSTED AS NECESSARY TO PREVENT THE BLOCKING OF DRIVEWAYS OR DRIVING LANES.
2. THE SWPPP MANUAL IDENTIFIES THE DUTIES AND RESPONSIBILITIES OF THE GENERAL CONTRACTOR IN COMPLIANCE WITH FEDERAL, STATE AND LOCAL REGULATIONS. THIS ITEM SHALL BE SUBSIDIARY TO THE SWPPP BEST MANAGEMENT PRACTICES (COMPLETE IN PLACE) ITEMS. THE SWPPP PROJECT MANUAL IS AVAILABLE FOR REVIEWING AT THE CITY OF EL PASO-ENGINEERING DEPARTMENT. UPON SELECTION, THE CONTRACTOR WILL BE PROVIDED AN SWPPP MANUAL. THE CONTRACTOR SHALL MAINTAIN THIS MANUAL AT THE CONSTRUCTION SITE AT ALL TIMES THROUGHOUT THE CONSTRUCTION PERIOD.
3. THE CONTRACTOR SHALL COMPLETE AND SUBMIT ALL REGULATORY FORMS AND APPLICATIONS, AS PROVIDED IN THE SWPPP MANUAL, INCLUDING, BUT NOT LIMITED TO; NOI, NOT, SDPCP, AND ANY OTHER FORM REQUIRED BY THE CITY OF EL PASO AND TCEQ.
4. ALLOWABLE STORM WATER AND NON-STORMWATER DISCHARGE SHALL COMPLY WITH 15.20.080 (GENERAL PROHIBITION) AND 15.20.090 (SPECIFIC PROHIBITIONS AND REQUIREMENTS) OF THE CITY OF EL PASO STORM DRAIN POLLUTION CONTROL PLAN ORDINANCE. NON-STORMWATER DISCHARGES MAY CONSIST OF, BUT ARE NOT LIMITED TO, THE DISCHARGE RESULTING FROM FIREFIGHTING, LAWN WATERING, LANDSCAPE IRRIGATION, NATURAL SPRING, AND/OR AGRICULTURAL STORM WATER RUNOFF.
5. REFER TO DRAINAGE PLAN SHEET 5, FOR DETAILED INFORMATION ON WATERSHED AREAS AND RUNOFF QUANTITIES (Q).
6. THE FOLLOWING HAVE BEEN IDENTIFIED AS POTENTIAL CONTAMINATION SOURCES: CLEARED AND GRADED AREAS; CONSTRUCTION SITE ENTRANCE AND ASPHALT PARKING AREA CONSTRUCTION; ASPHALT LOADING/UNLOADING AREAS; CONCRETE LOADING/UNLOADING AREAS; AND, ALL UNDISTURBED AREAS.
7. THE FOLLOWING IS A LIST OF POTENTIAL CONSTRUCTION SITE STORM WATER POLLUTANTS: ASPHALT; CONCRETE; GLUE/ADHESIVE; PAINTS; CURING COMPOUNDS; WASTEWATER FROM CONSTRUCTION EQUIPMENT WASHING; HYDRAULIC OIL/FLUIDS; ;GASOLINE; DIESEL FUEL; KEROSENE; ANTIFREEZE/COOLANT; AND EROSION.

**BEST MANAGEMENT PRACTICES CONTROLS**

I. WASTE MATERIALS:

ALL WASTE MATERIALS, INCLUDING CONSTRUCTION DEBRIS, SHALL BE COLLECTED AND STORED IN A SECURELY LIDDED METAL DUMPSTER. NO CONSTRUCTION WASTE MATERIAL SHALL BE BURIED ON SITE. THE TRANSIT DUMPSTER SHALL COMPLY WITH ORDINANCE 18.52.010 (ENCLOSURE AND REMOVAL OF WASTE MATERIALS DURING CONSTRUCTION). THE DUMPSTER SHALL BE EMPTIED AS NECESSARY OR AS REQUIRED BY ORDINANCE 9.04 (SOLID WASTE MANAGEMENT) AND THE TRASH SHALL BE HAULED TO A LICENSED LANDFILL.

II. HAZARDOUS WASTE:

AT A MINIMUM, ANY PRODUCTS IN THE FOLLOWING CATEGORIES SHALL BE CONSIDERED HAZARDOUS: PAINT, ACIDS FOR CLEANING MASONRY SURFACES, CLEANING SOLVENTS, ASPHALT PRODUCTS, CHEMICAL ADDITIVES FOR SPILL STABILIZATION, CURING COMPOUNDS AND ADDITIVES. IN THE EVENT OF A SPILL WHICH MAY BE HAZARDOUS, THE CONTRACTOR SHALL TAKE IMMEDIATE ACTION AND CONTACT THE FIRE DEPT. AND TNRC.

III. SANITARY WASTE:

ALL SANITARY WASTE SHALL BE COLLECTED FROM THE CONSTRUCTION PORTABLE UNITS AS NECESSARY OR AS REQUIRED, CHAPTER 18.08 (BUILDING CODE), BY A LICENSED SANITARY WASTE MANAGEMENT CONTRACTOR. ALL WASTE MATERIAL SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

IV. SPILL PREVENTION:

THE FOLLOWING PRACTICES SHALL BE USED TO REDUCE THE RISK OF SPILLS OR OTHER ACCIDENTAL EXPOSURES OF MATERIALS TO STORM WATER RUNOFF.

V. GOOD HOUSEKEEPING:

- A. STORE ONLY ENOUGH PRODUCTS REQUIRED TO DO THE JOB
- B. NEATLY STORE MATERIALS ON-SITE IN AN ORDERLY MANNER
- C. KEEP PRODUCTS IN THEIR ORIGINAL CONTAINER
- D. DO NOT MIX SUBSTANCES WITH ONE ANOTHER, UNLESS OTHERWISE RECOMMENDED BY THE MANUFACTURER
- E. USE ENTIRE CONTENTS OF A PRODUCT BEFORE DISPOSING THE CONTAINER
- F. FOLLOW MANUFACTURER'S RECOMMENDATIONS FOR PROPER USE AND DISPOSAL

VI. HAZARDOUS PRODUCTS:

PRACTICES USED TO REDUCE RISKS:

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

VII. PETROLEUM PRODUCTS:

ALL ON-SITE VEHICLES SHALL BE MONITORED FOR LEAKS AND RECEIVE REGULAR PREVENTIVE MAINTENANCE TO REDUCE THE CHANCE OF LEAKAGE. PETROLEUM PRODUCTS SHALL BE STORED IN TIGHTLY SEALED CONTAINERS WHICH ARE CLEARLY LABELED. ANY ASPHALT SUBSTANCES USED ON-SITE SHALL BE APPLIED ACCORDING TO THE MANUFACTURER'S RECOMMENDATION.

VIII. SPILL CONTROL PRACTICES:

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

IX. MAINTENANCE AND INSPECTION PROCEDURES:

ALL POLLUTION PREVENTION MEASURES SHALL BE INSPECTED AT LEAST EVERY SEVEN (7) DAYS WITHIN 24-HOURS PRIOR TO ANTICIPATED STORM EVENT AND FOLLOWING A STORM EVENT OF 0.25 INCHES OR MORE. INSPECTION IN FINAL STABILIZED AREAS OR DURING ARID PERIODS WILL BE CONDUCTED MONTHLY, BEST MANAGEMENT PRACTICES AND POLLUTION CONTROL PROCEDURES SHALL BE INSPECTED FOR ADEQUACY.

X. REMARKS:

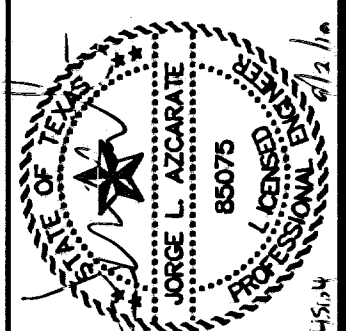
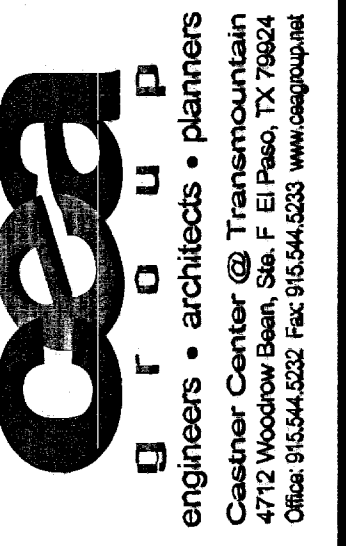
DISPOSAL AREAS, STOCKPILES, AND HAUL ROADS SHALL BE CONSTRUCTED IN A MANNER THAT WILL MINIMIZE AND CONTROL THE AMOUNT OF SEDIMENT THAT MAY ENTER RECEIVING WATERS. DISPOSAL AREAS SHALL NOT BE LOCATED IN ANY WETLAND, WATERBODY OR STREAMBED. CONSTRUCTION STAGING AREAS AND VEHICLE MAINTENANCE AREAS SHALL BE CONSTRUCTED BY THE CONTRACTOR IN A MANNER TO MINIMIZE THE RUNOFF OF POLLUTANTS. ALL WATERWAYS SHALL BE CLEANED AS SOON AS PRACTICABLE OF TEMPORARY EMBANKMENT, TEMPORARY BRIDGES, MATTING, FALSEWORK, PILING DEBRIS OR OTHER OBSTRUCTIONS PLACED DURING CONSTRUCTION OPERATIONS THAT ARE NOT A PART OF THE FINISHED WORK.

XI. OFFSITE VEHICLE TRACKING:

IN ADDITION TO THE STABILIZED CONSTRUCTION ENTRANCES, THE FOLLOWING MEASURES SHALL BE OBSERVED DURING CONSTRUCTION:

- HAUL ROADS SHALL BE DAMPENED FOR DUST CONTROL
- LOADED HAUL TRUCKS SHALL BE COVERED WITH TARPULIN
- EXCESS DIRT ON ROAD SHALL BE REMOVED IMMEDIATELY
- STABILIZED CONSTRUCTION ENTRANCE
- OTHER: \_\_\_\_\_

REFERENCES - BENCHMARKS  
 CITY MONUMENT AT POINT OF CURVE  
 CITY MONUMENT TO BE BUILT AT  
 DISTANCE OF 487.85 FEET FROM THE  
 SOUTHERLY RIGHT OF WAY LINE OF MONTANA  
 AVENUE CITY DATUM  
 ELEVATION.....4005.40



SCALE  
 Horizontal: N/A  
 Vertical: N/A  
 Contour Interval: N/A  
 DATE: MARCH 2009  
 DESIGN BY: J.L.A.  
 DRAWN BY: J.L.A.  
 CHKD. BY: J.L.A.  
 APPVD. BY: J.L.A.  
 JOB No. 2000-100 LD C-45.4

PROJECT TITLE  
**TRES SUEÑOS UNIT SIX  
 SUBDIVISION IMPROVEMENTS**

SHEET TITLE

**STORM WATER  
 POLLUTION  
 PREVENTION PLAN:  
 GENERAL NOTES**

SHEET NO.

**34**

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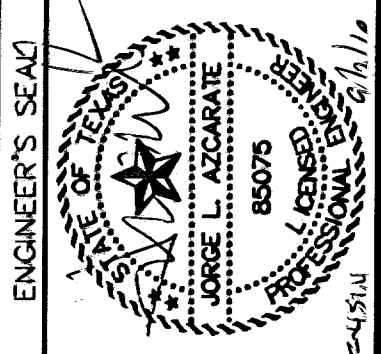
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**LEGEND**

- X-X-X SILT FENCE OR EARTHEN BERM
  - [Hatched Box] STABILIZED CONSTRUCTION ENTRANCE
  - [S] STAGING AREA
  - [P] PORTABLE TOILETS
  - OUTFALL
  - HAY BALES
- SELECTION OF BEST MANAGEMENT PRACTICES (SILT FENCE OR EARTHEN BERM) SHALL BE AT THE DISCRETION OF THE DEVELOPER/CONTRACTOR.
  - CONTRACTOR SHALL PLACE HAY BALES AT INLETS TO PROTECT SILT OR DEBRIS FROM ENTERING STRUCTURES. HAY BALES SHALL NOT BE REMOVED UNTIL ACCEPTANCE BY THE PASEO DEL ESTE M.U.D. AND COUNTY OF EL PASO.

DATE	REVISIONS	BY

**ceea**  
engineers • architects • planners  
Casner Center @ Transmountain  
4712 Woodrow Baur, Ste. F El Paso, TX 79904  
Class: 910.04.0002 Fax: 915.544.6233 www.ceea.com



SCALE	
Horizontal:	1"=100'
Vertical:	N/A
Contour Interval:	5'
DATE:	MARCH 2008
DESIGN BY:	J.G.
DRAWN BY:	D.N.
CHKD. BY:	J.L.A.
APPROV. BY:	J.L.A.
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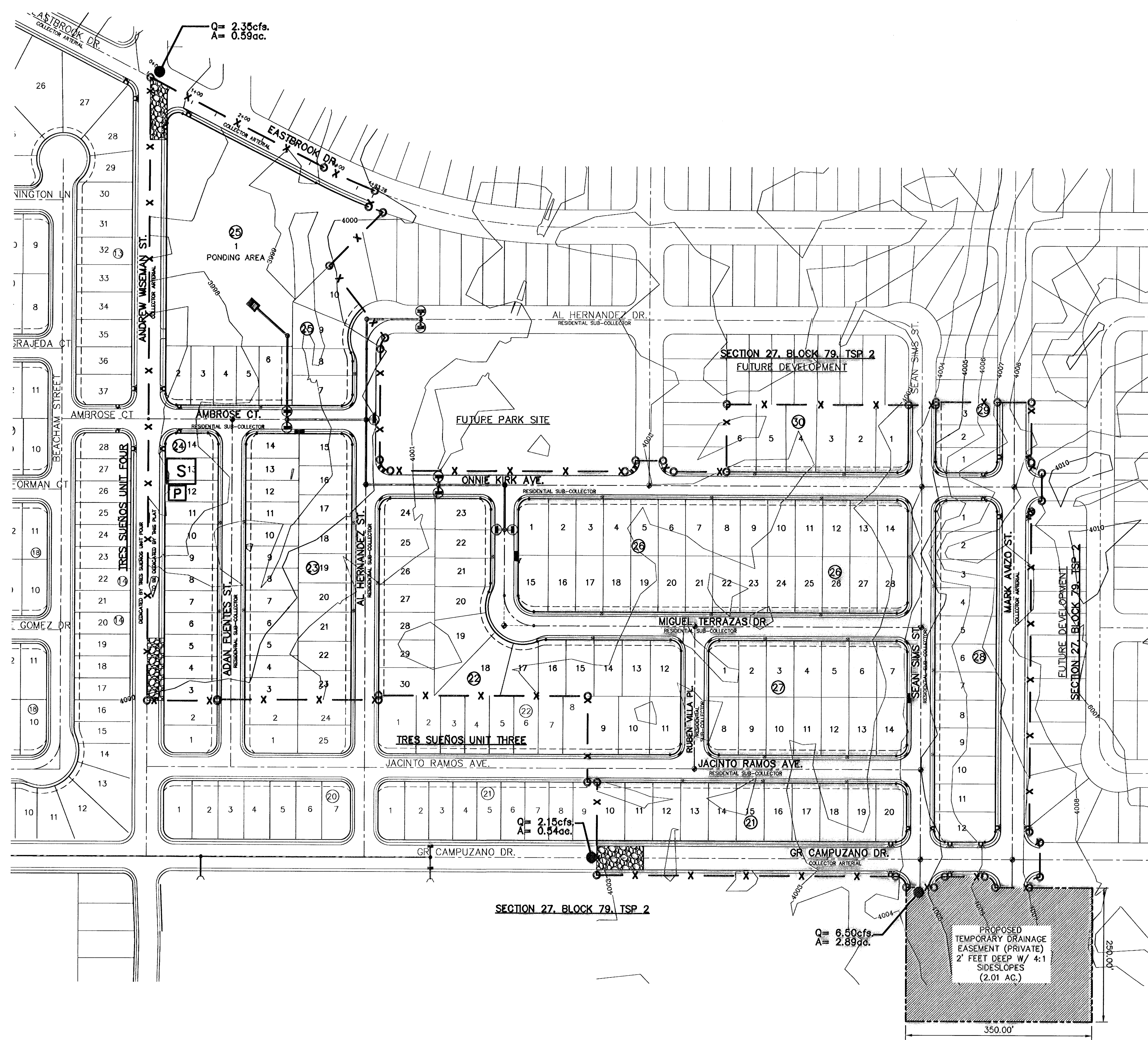
SHEET TITLE

STORM WATER  
POLLUTION  
PREVENTION PLAN:  
SITE PLAN

SHEET NO.

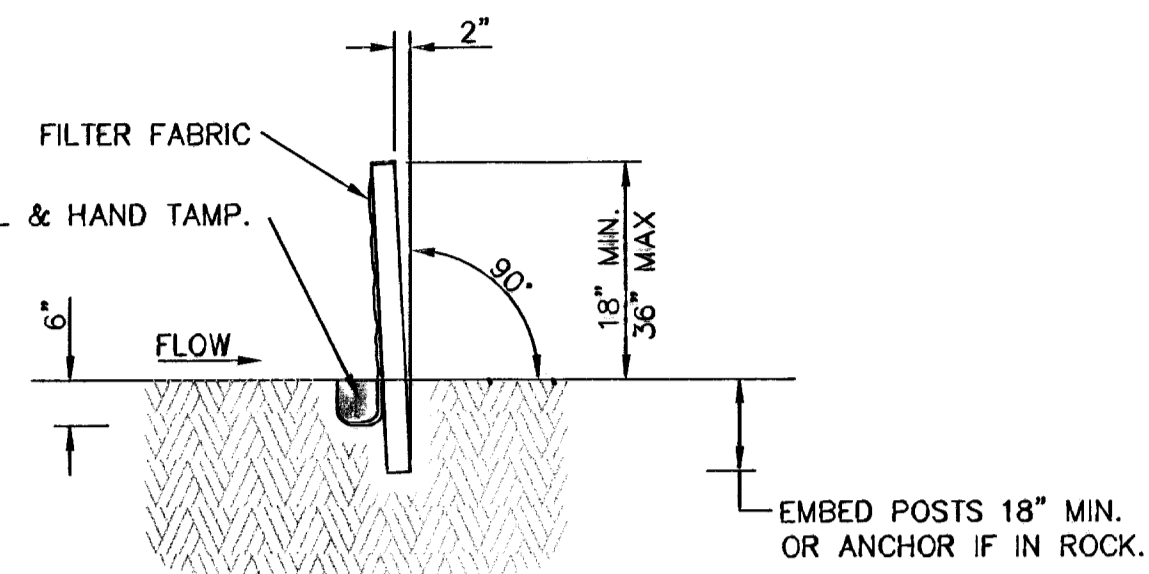
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OF 36



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4" MIN. STEEL OR WOOD POSTS SPACED AT 6' TO 8' O.C.  
 SOFTWOOD POSTS SHALL BE 3" MIN. DIA. OR NOMINAL 2"x4".  
 HARDWOOD POSTS SHALL HAVE A MIN. CROSS SECTION OF 1.5" X 1.5".



SECTION A-A

CONNECT THE ENDS OF SUCCESSIVE REINFORCEMENT SHEETS OR ROLLS A MIN. OF 6 TIMES WITH HOG RINGS.

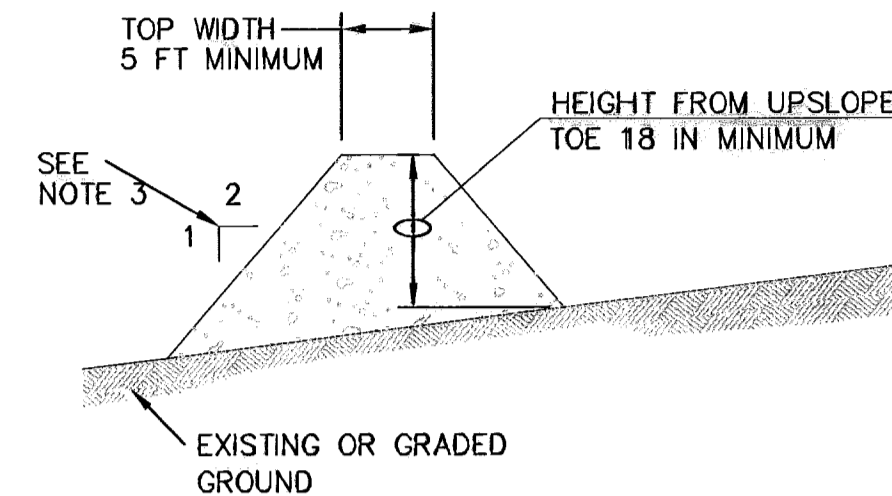
GALV. W.W.M. (12.5 GA. MIN.)  
 MAX. OPENING SIZE SHALL BE 2" X 4".

ATTACH THE W.W.M. & FABRIC ON END POSTS USING 4 EVENLY SPACED STAPLES FOR WOODEN POSTS (OR 4 T-CLIPS OR SEWN VERTICAL POCKETS FOR STEEL POSTS).

FASTEN FABRIC TO TOP STRAND OF WELDED WIRE MESH (W.W.M.) BY HOG RINGS OR CORD AT A MAX. SPACING OF 15".

PLACE 4" TO 6" OF FABRIC AGAINST THE TRENCH SIDE AND APPROX. 4" ACROSS TRENCH BOTTOM IN UPSTREAM DIRECTION. MINIMUM TRENCH SIZE SHALL BE 6" SQUARE. BACKFILL AND HAND TAMP.

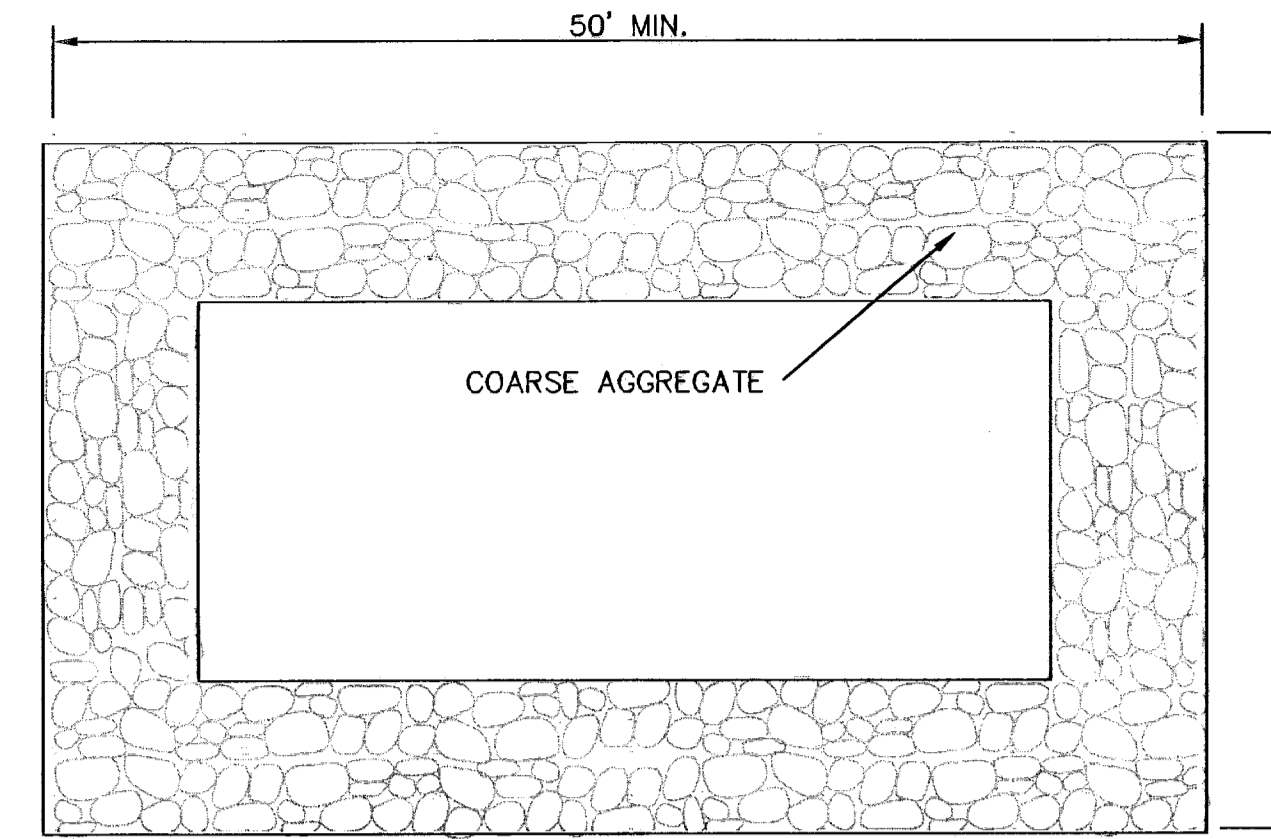
TEMPORARY SEDIMENT CONTROL FENCE



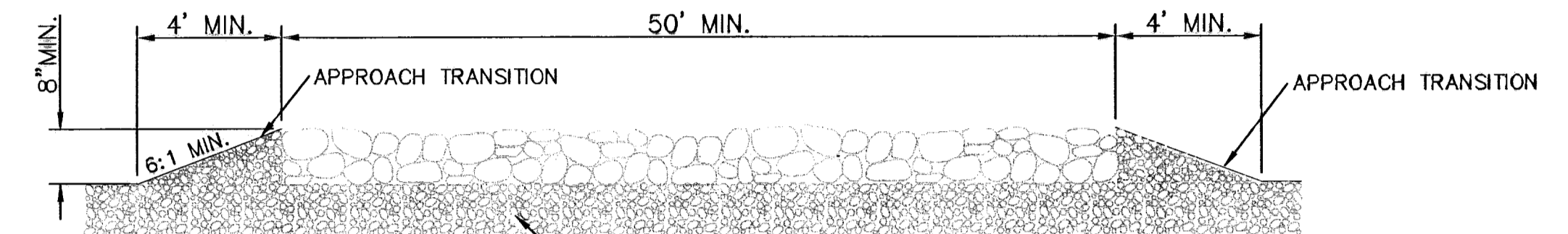
GENERAL NOTES:

1. SOIL USED IN BERM CONSTRUCTION SHALL BE MACHINE COMPACTED.
2. TOP WIDTH AND HEIGHT OF BERM MAY BE MODIFIED WITH PRIOR APPROVAL OF THE ENGINEER.
3. SIDE SLOPES WITHIN THE SAFETY CLEAR ZONE OF A ROADWAY SHALL BE 6:1 OR FLATTER.
4. GRADING SHALL BE SHOWN ELSEWHERE IN THE PLANS OR AS DIRECTED BY THE ENGINEER.
5. THE ENGINEER RESERVES THE RIGHT TO MODIFY THE DIMENSIONS SHOWN FOR THE BERM DEPENDENT ON RUNOFF VOLUME CHARACTERISTICS.
6. BERM THAT ARE IN PLACE FOR MORE THAN 14 CALENDAR DAYS SHOULD BE STABILIZED TO PREVENT SEDIMENT RUNOFF.
7. THE GUIDELINES SHOWN HEREON ARE SUGGESTIONS ONLY AND MAY BE MODIFIED BY THE ENGINEER.

TYPICAL BERM CONFIGURATION



PLAN

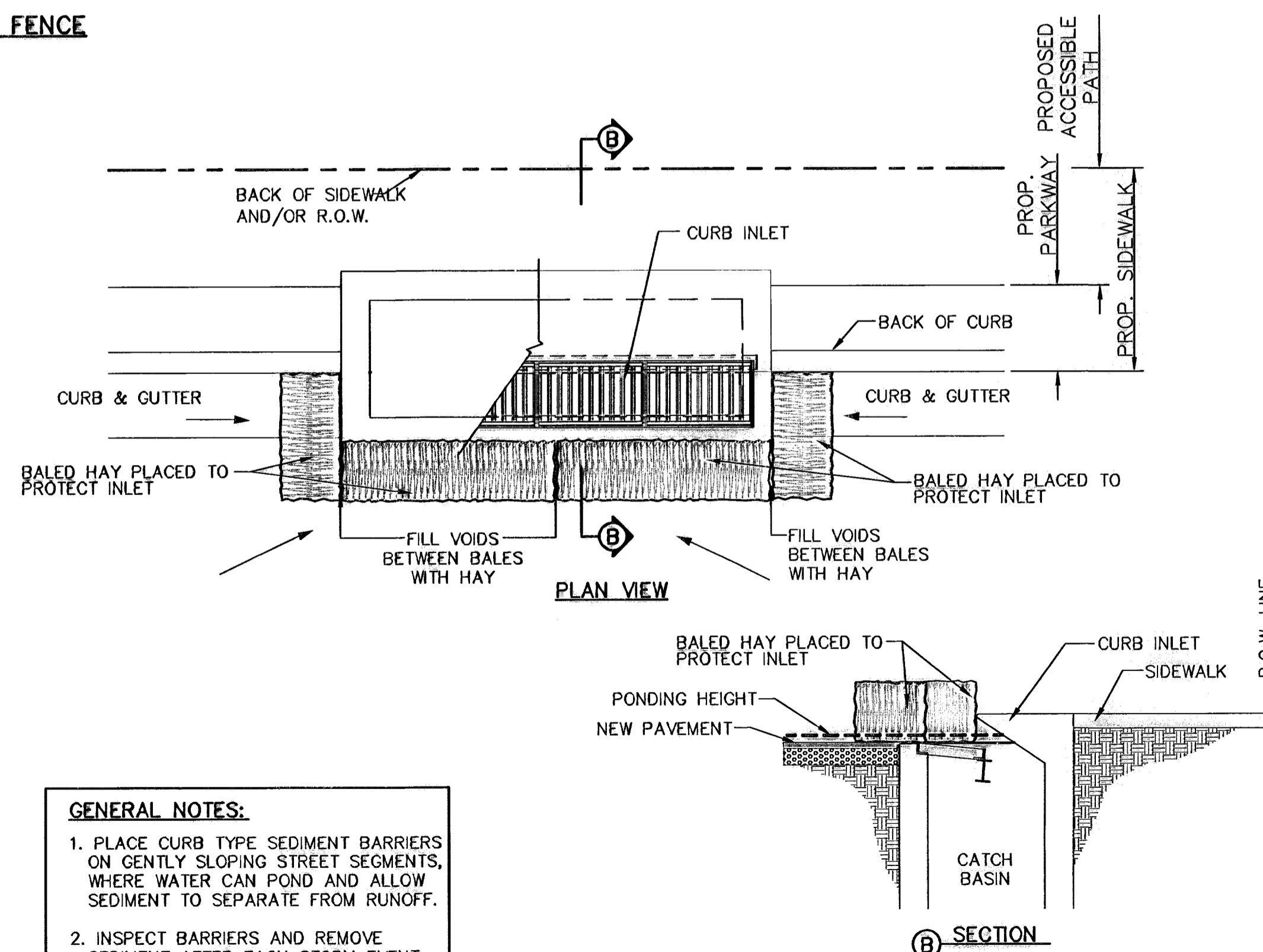


PROFILE

GENERAL NOTES:

1. THE LENGTH OF THE TYPE 1 CONSTRUCTION EXIT SHALL BE AS INDICATED ON THE PLANS, BUT NOT LESS THAN 50'.
2. THE COARSE AGGREGATE SHOULD BE OPEN GRADED WITH A SIZE OF 4" TO 8".
3. THE APPROACH TRANSITIONS SHOULD BE NO STEEPER THAN 6:1 AND CONSTRUCTED AS DIRECTED BY THE ENGINEER.
4. THE CONSTRUCTION EXIT FOUNDATION COURSE SHALL BE FLEXIBLE BASE, BITUMINOUS CONCRETE, PORTLAND CEMENT CONCRETE OR OTHER MATERIAL AS APPROVED BY THE ENGINEER.
5. THE CONSTRUCTION EXIT SHALL BE GRADED TO ALLOW DRAINAGE TO A SEDIMENT TRAPPING DEVICE.
6. THE GUIDELINES SHOWN HEREON ARE SUGGESTIONS ONLY AND MAY BE MODIFIED BY THE ENGINEER.

CONSTRUCTION EXIT (TYPE 1)



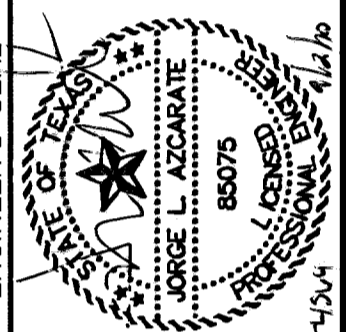
- GENERAL NOTES:
1. PLACE CURB TYPE SEDIMENT BARRIERS ON GENTLY SLOPING STREET SEGMENTS, WHERE WATER CAN POND AND ALLOW SEDIMENT TO SEPARATE FROM RUNOFF.
  2. INSPECT BARRIERS AND REMOVE SEDIMENT AFTER EACH STORM EVENT. SEDIMENT AND GRAVEL MUST BE REMOVED FROM THE TRAVELED WAY IMMEDIATELY.

TEMPORARY INLET PROTECTION

REFERENCES - BENCHMARKS

CITY MONUMENT AT POINT OF CURVE	DATE	REVISIONS	BY
DEPARTMENT OF TRANSPORTATION			
SOUTHERLY RIGHT OF WAY LINE OF MONTANA AVENUE CITY DATUM			
ELEVATION: 4005.40			

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SCALE

Horizontal:	N/A
Vertical:	N/A
Contour Interval:	N/A
DATE:	MARCH 2009
DESIGN BY:	J.C.
DRAWN BY:	D.N.
CHKD. BY:	J.L.A.
APPVD. BY:	J.L.A.
JOB No.:	2000-100 LD

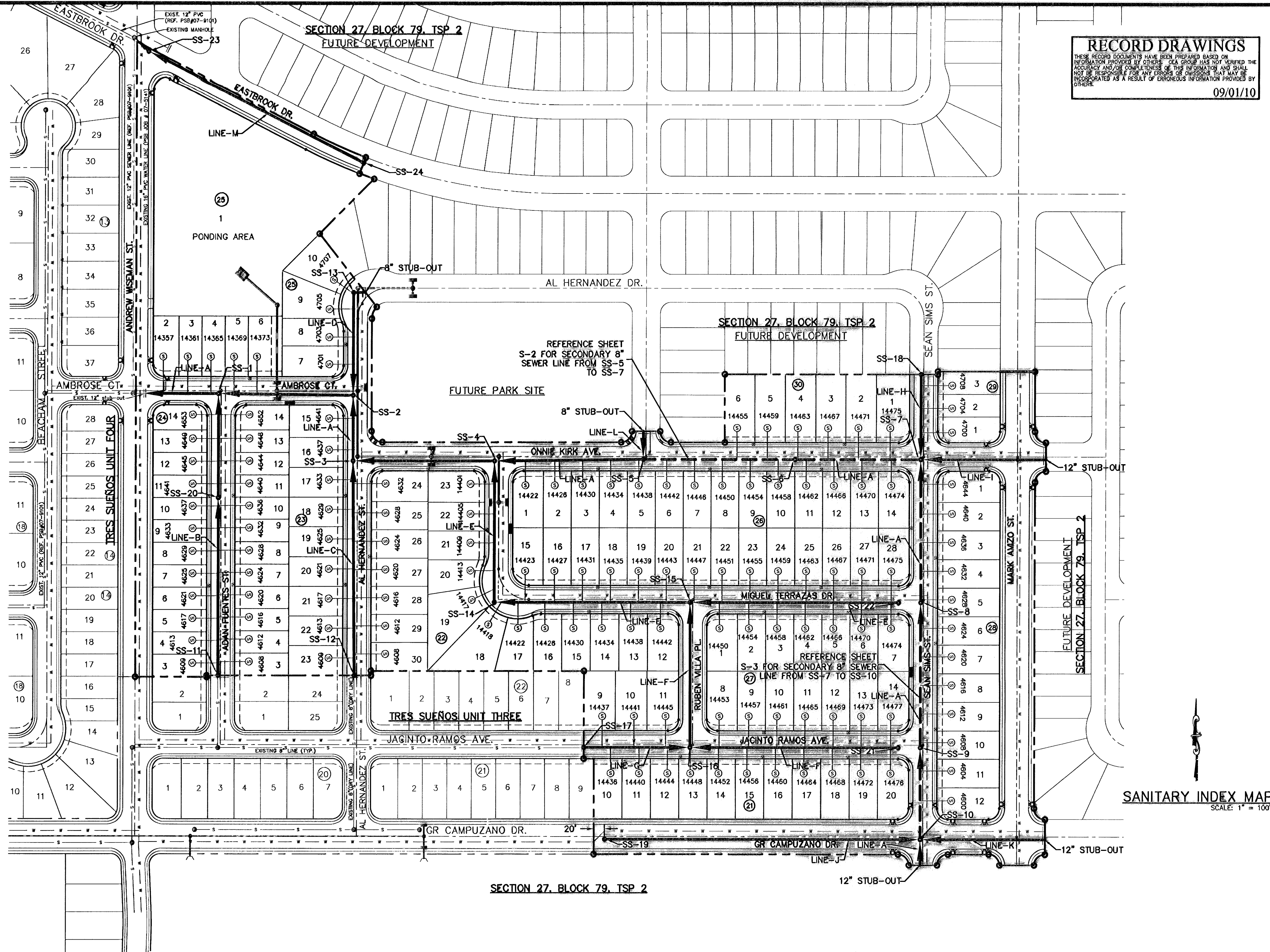
PROJECT TITLE  
**TRES SUEÑOS UNIT SIX  
 SUBDIVISION IMPROVEMENTS**

SHEET TITLE  
**STORM WATER  
 POLLUTION  
 PREVENTION PLAN:  
 DETAILS**

SHEET NO.

**36**

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- NOTES:**
1. ALL THE TRES SUEÑOS UNIT SIX SANITARY SEWER AND WATER STRUCTURES SHALL BE BUILT CONCURRENTLY ACCORDING TO THE PLANS.
  2. ALL LOTS SHALL BE PROVIDED WITH ONE SERVICE CONNECTION TO BE INSTALLED AT THE LOCATION AS SHOWN ON THE SERVICE LOCATION DETAIL.
  3. ALL SANITARY SEWER PIPES SHALL BE PVC, SDR 35, (D 3034), UNLESS OTHERWISE SHOWN.

**LEGEND**

SYMBOL	DESCRIPTION
— s — s —	EXISTING SEWER LINE
— w — w —	EXISTING WATER LINE
— w — w —	PROPOSED WATER LINE
---	SUBD. BOUNDARY LINE
---	PROPERTY LINE
---	CENTER LINE
← ←	PROPOSED DOUBLE SEWER LINE (PLAN VIEW)
←	PROPOSED SEWER LINE (PLAN VIEW)
←	PROPOSED SEWER LINE ON ANOTHER SHEET (PLAN VIEW)
— P.V.C. @ 0.40% Q=311 GPM	PROPOSED SEWER LINE (PROFILE VIEW)
—	PROPOSED STORM SEWER (PLAN VIEW)
⊙	PROPOSED MANHOLE (PLAN VIEW)
⊙	EXISTING MANHOLE (PLAN VIEW)
	PROPOSED 8" CAP
⊙	PROPOSED SERVICE CONNECTION (PLAN VIEW)
—	PROPOSED MANHOLE (PROFILE VIEW)
—	EXISTING MANHOLE (PROFILE VIEW)

**SANITARY INDEX MAP**  
 SCALE: 1" = 100'

**GENERAL NOTES**

1. UNLESS OTHERWISE SHOWN ON THE DRAWINGS, THE PROPOSED SEWER MAINS AND SEWER MANHOLES SHALL BE INSTALLED NO LESS THAN 10' AWAY FROM WATER LINE.
2. THE INTENT OF THE OWNER IS TO HAVE THE SANITARY SEWER PIPELINES INSTALLED TO SUCH A DEPTH THAT THEY WILL HAVE AT LEAST 48" OF COVER BELOW PROPOSED GROUND AT ALL LOCATIONS. THE PIPELINES SHALL HAVE NO DIPS, SAGS OR HUMPS OR OTHER IRREGULARITIES IN VERTICAL ALIGNMENT. CONSIDERING UTILITIES AND OTHER CONDITIONS, VARIANCE FROM GRADE PROFILE IS NOT RECOMMENDED IF OTHER EXISTING UTILITIES OR OBSTRUCTIONS ARE ENCOUNTERED DURING THE WORK. THE CONTRACTOR SHALL VERIFY THE LOCATION AND DEPTH OF ALL EXISTING UTILITIES PRIOR TO INSTALLING THE SEWER PIPELINE SO THAT AN ACCEPTABLE PROFILE CAN BE ESTABLISHED PRIOR TO INSTALLATION OF THE PIPELINE.
3. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO FIELD LOCATE ALL UNDERGROUND UTILITIES, SHOWN OR NOT SHOWN IN THE PLANS, AND COORDINATE HIS WORK WITH ALL UTILITY COMPANIES, EL PASO WATER UTILITIES, AND THE CITY OF EL PASO STREET DEPARTMENT PRIOR TO CONSTRUCTION. ALL EXISTING UTILITY DEPTHS ARE UNKNOWN. THE CONTRACTOR SHALL BE ULTIMATELY RESPONSIBLE FOR ACQUIRING FIELD DEPTHS OF ALL UTILITIES WITH THE PROJECT AREAS.
4. TRENCH SAFETY REQUIREMENTS SHALL COMPLY WITH CURRENT OSHA REGULATIONS.
5. AS-BUILT STATIONING, OFFSET FROM R.O.W. AND INVERT ELEVATIONS SHALL BE ACCURATELY RECORDED BY THE CONTRACTOR ON A CLEAN SET OF PLANS FOR EACH MANHOLE, SERVICE CONNECTION AND/OR STUB-OUT, WITH RESPECT TO THE APPROPRIATE PROJECT CONTROL POINT.
6. EL PASO WATER UTILITIES AND THE CITY OF EL PASO MUST BE NOTIFIED 48 HOURS PRIOR TO COMMENCING ANY WORK IN AREAS WITHIN THEIR JURISDICTION. A COPY OF ALL FIELD SOIL DENSITY TESTS WITHIN THEIR RESPECTIVE R.O.W. SHALL BE FORWARDED TO THE DEVELOPER'S ENGINEER AND THE DEVELOPER BY THE CONTRACTOR.
7. EXISTING STREETS, DRIVEWAYS AND ALL OTHER MISCELLANEOUS STRUCTURES DAMAGE OR REMOVED BY CONSTRUCTION ACTIVITIES SHALL BE RESTORED TO ORIGINAL OR BETTER THAN ORIGINAL CONDITION.
8. ALL WATER AND SEWER UTILITY WORK, INCLUDING TIE-INS SHALL BE CLOSELY COORDINATED WITH EL PASO WATER UTILITIES FIELD ENGINEERING AT LEAST 48 HOURS PRIOR TO COMMENCING ANY UTILITY WORK.

**GENERAL UTILITIES:**  
 TEXAS EXCAVATION SAFETY SERVICE  
 11884 GREENVILLE AVENUE  
 DALLAS, TX 75243  
 (800) 344-8377

**WATER & SEWER:**  
 EL PASO WATER UTILITIES  
 1154 HAWKINS BLVD #1  
 EL PASO, TX 79925  
 (915) 544-5500  
 MR. FELIPE LOPEZ, P.E.

**TELEPHONE:**  
 SBC  
 11200 PELICANO  
 EL PASO, TX 79935  
 (915) 595-5151  
 MR. TIM BROWN

**FIBER OPTICS:**  
 AT&T  
 P.O. BOX 1650  
 EL PASO, TX 79949  
 (800) 892-3788  
 MS. DARLENE NORRIS

**RESIDENTIAL GAS LINES:**  
 TEXAS GAS SERVICE  
 4700 POLLARD ST.  
 EL PASO, TX 79930  
 (915) 680-7218  
 MR. ALEX LIMON

**ENGINEER:**  
 CEA GROUP  
 4712 WOODROW BEAN, STE. F.  
 EL PASO, TX 79924  
 (915) 544-5232  
 MR. JORGE L. AZCARATE, P.E.

**ELECTRIC:**  
 EL PASO ELECTRIC CO.  
 501 W. SAN ANTONIO ST.  
 EL PASO, TX 79902  
 (915) 543-2078  
 MR. FRANK VOGEL (DISTRIBUTION)

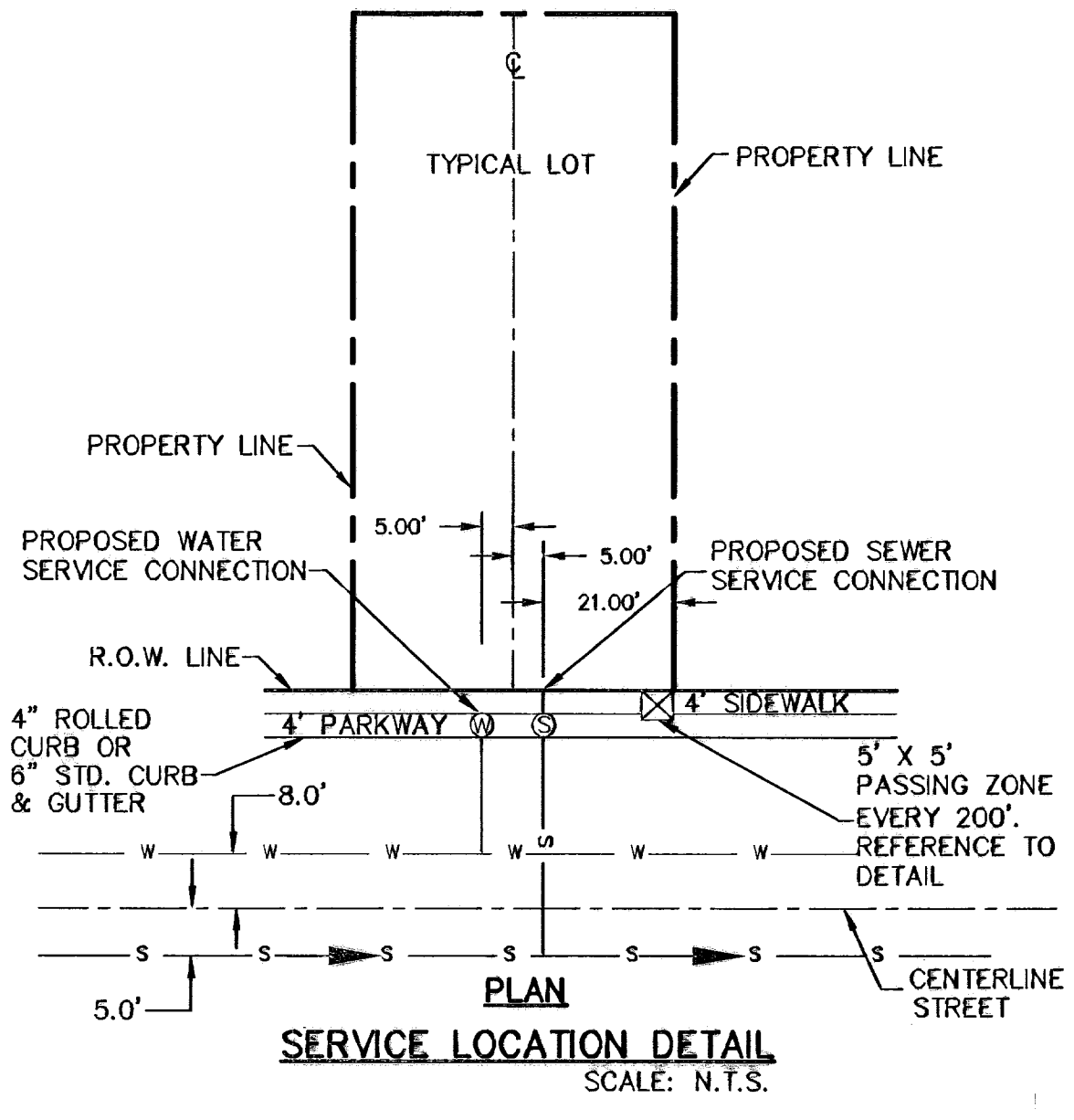
**FIBER OPTICS:**  
 U.S. SPRINT  
 151 N. BOONE ST.  
 EL PASO, TX 79905  
 (915) 534-2910  
 MR. RICK DERAAGSCH

**EL PASO STREETS**  
 EL PASO STREETS DEPARTMENT  
 7969 SAN PABLO DR.  
 EL PASO, TX 79907  
 (915) 621-8750  
 MR. DARYL COLE

**FIBER OPTICS:**  
 MCI TELECOMMUNICATIONS CORP.  
 4045 DONIPHAN PARK CIRCLE  
 EL PASO, TX 79922  
 (915) 542-2770 EXT. 201  
 MR. DANIEL HERNANDEZ

**CABLE TELEVISION:**  
 TIME WARNER COMMUNICATIONS  
 7010 AIRPORT ROAD  
 EL PASO, TX 79908  
 (915) 772-1123  
 MR. JOHN MARES

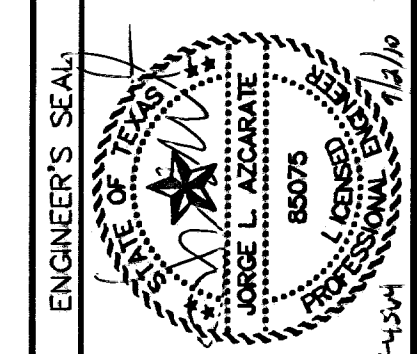
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REFERENCES - BENCHMARKS

CITY MONUMENT AT POINT OF CURVE	BY
CENTERLINE RICH BEEM BLVD., SDB#331: E A	DATE
SOUTHERLY POINT OF CURVE FROM THE	REVISIONS
SQUARELY RIGHT OF WAY LINE OF MONTANA	
AVENUE CITY DATUM	
ELEVATION: 4005.40	

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SCALE: 1" = 100'  
 Horizontal: N/A  
 Vertical: N/A  
 DATE: MARCH 2009  
 DESIGN BY: J.G.  
 DRAWN BY: D.N.  
 CHKD. BY: J.L.A.  
 APPVD. BY: J.L.A.  
 JOB No.: 2000-100 LD P-454

**TRES SUEÑOS UNIT SIX  
 SUBDIVISION IMPROVEMENTS**

**SANITARY INDEX**  
 SHEET NO. S-1  
 OF S-9

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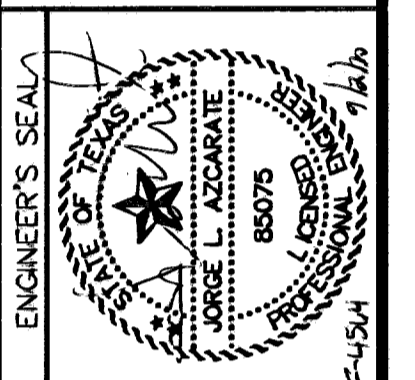
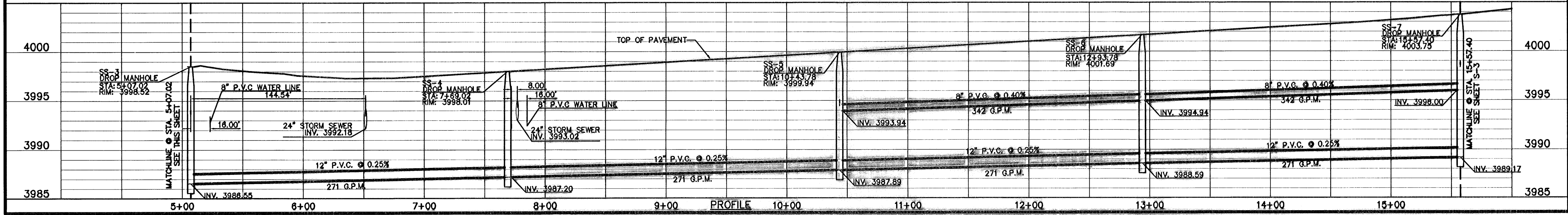
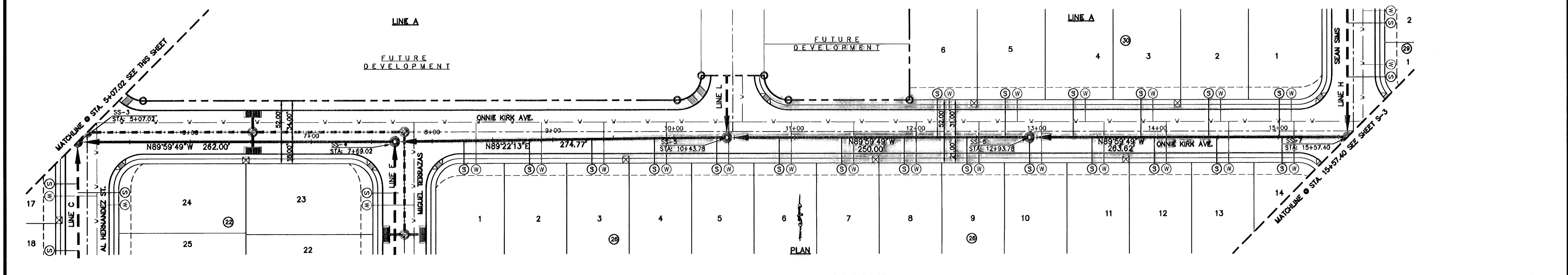
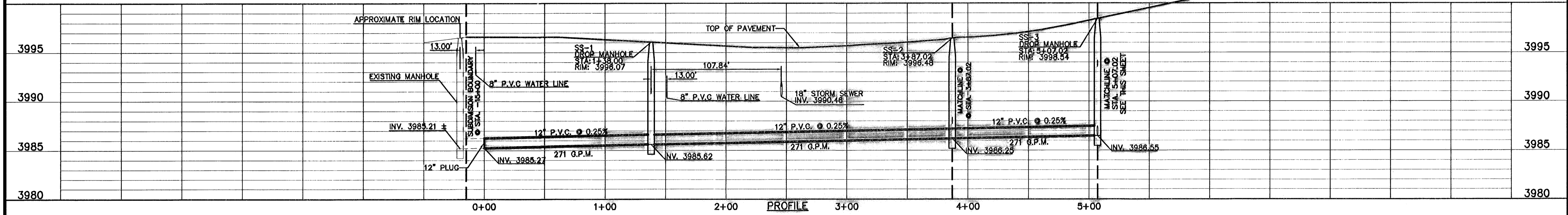
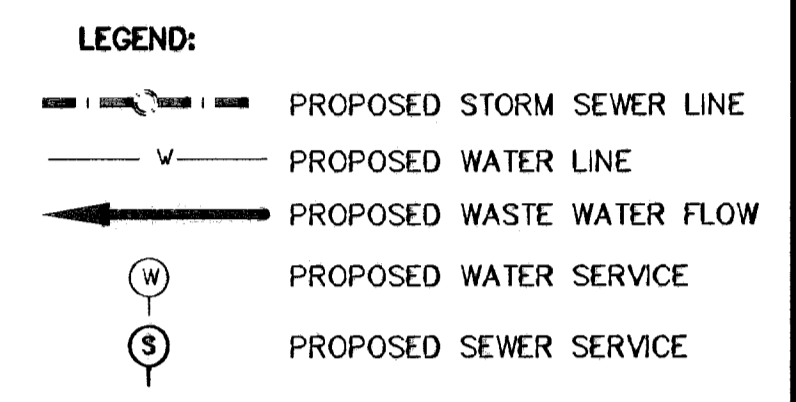
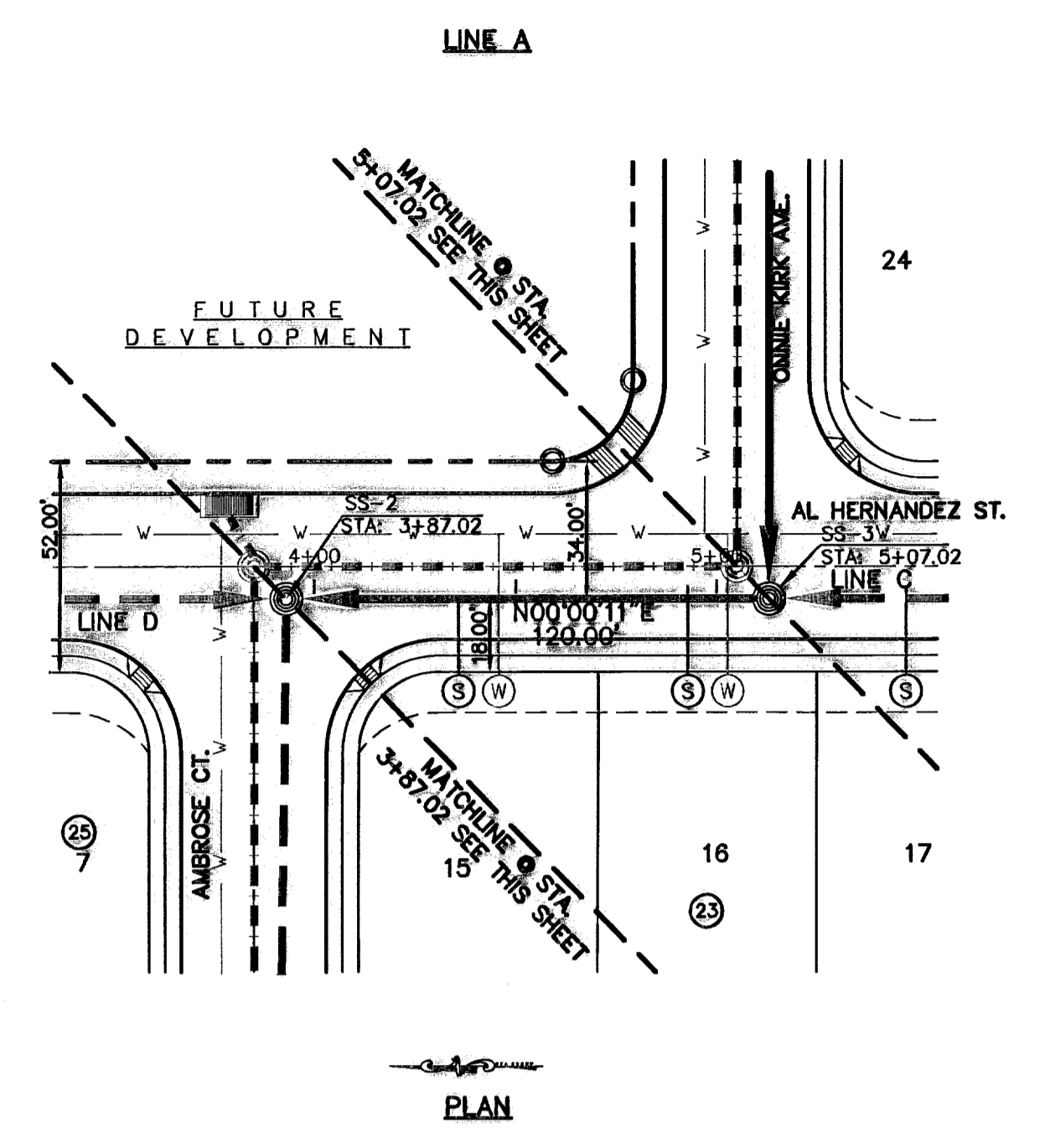
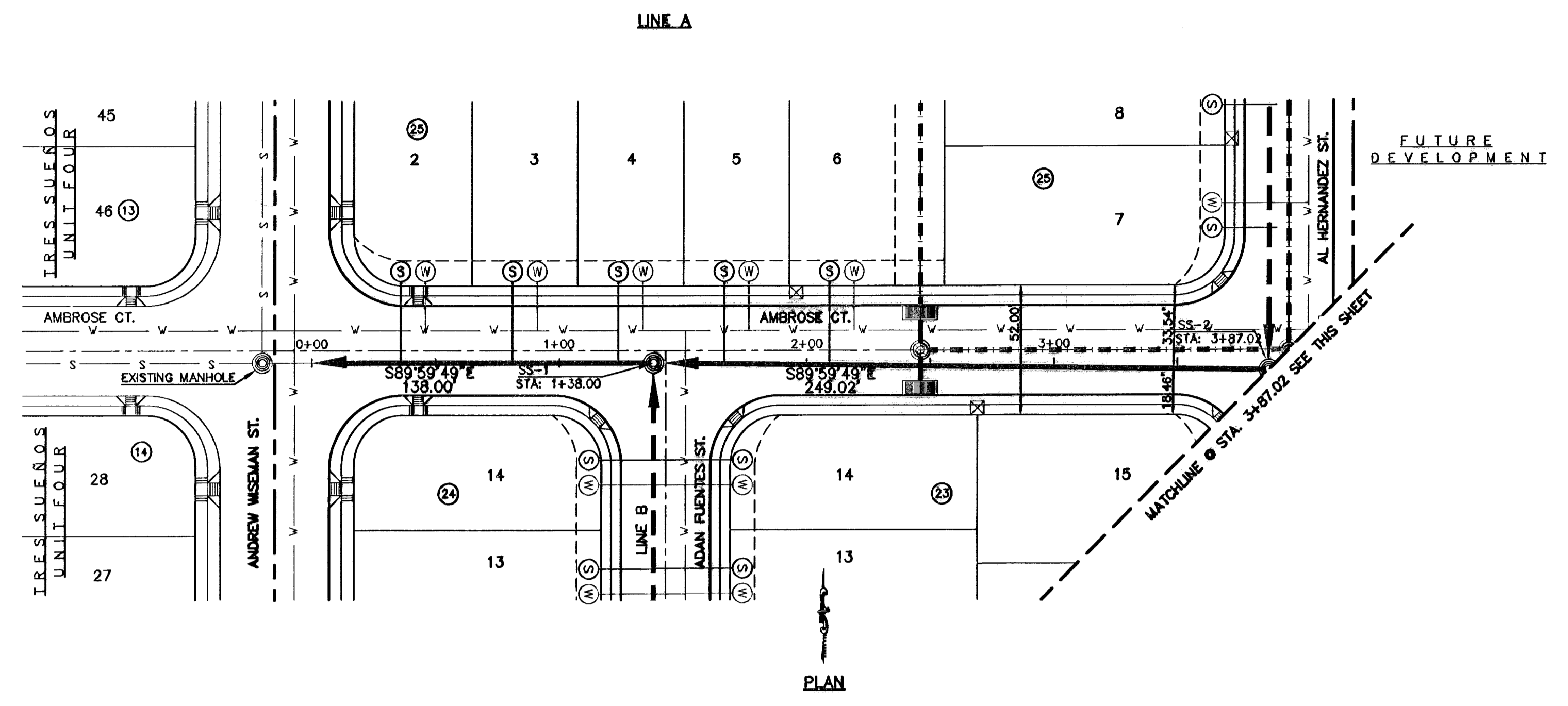
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SCALE  
Horizontal: 1"=40'  
Vertical: 1"=5'

DATE: MARCH 2009  
DESIGN BY: J.C.  
DRAWN BY: D.N.  
CHKD. BY: J.L.A.  
APPVD. BY: J.L.A.  
JOB No. 2000-100.LD

PROJECT TITLE  
**TRES SUEÑOS UNIT SIX  
SUBDIVISION IMPROVEMENTS**

SHEET TITLE  
**SANITARY SEWER  
PLAN & PROFILE  
LINE A**

SHEET NO.  
**S-2**

OF S-9



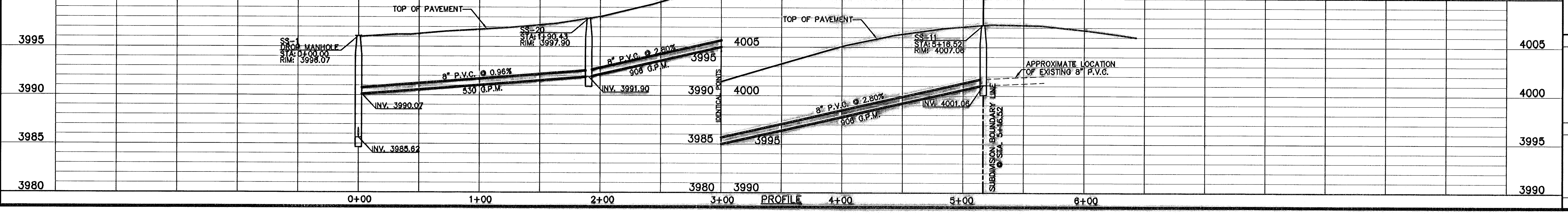
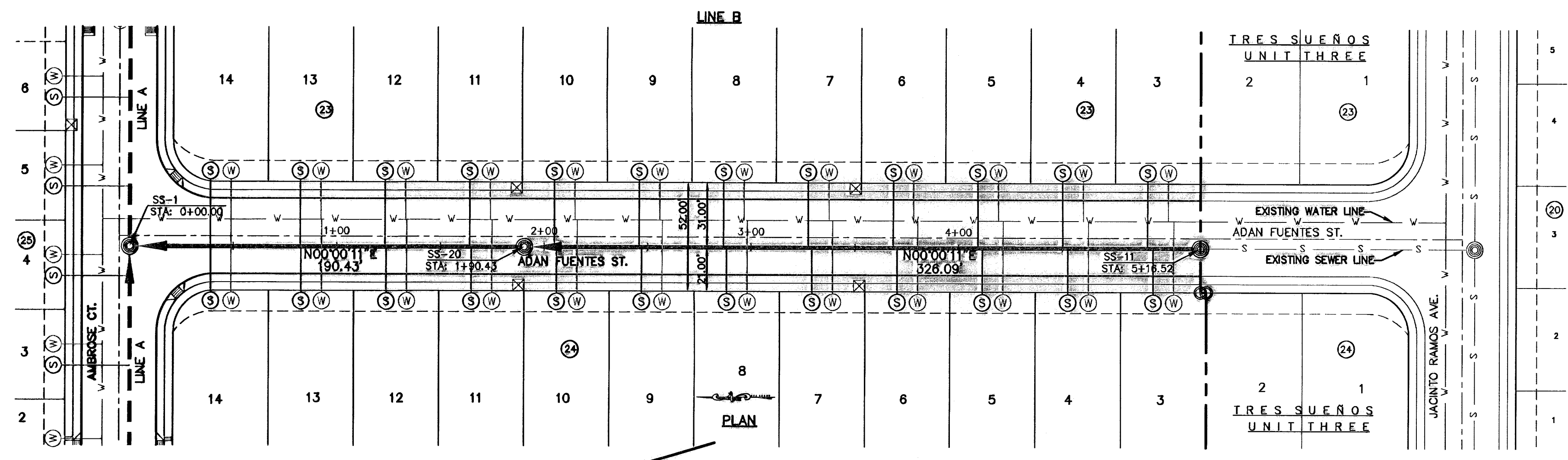
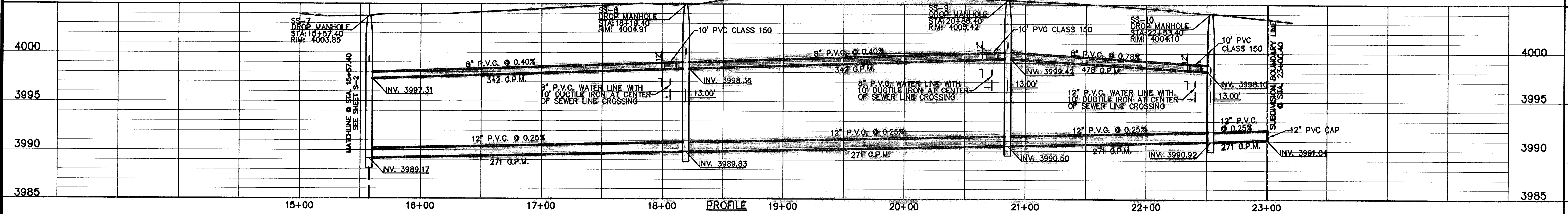
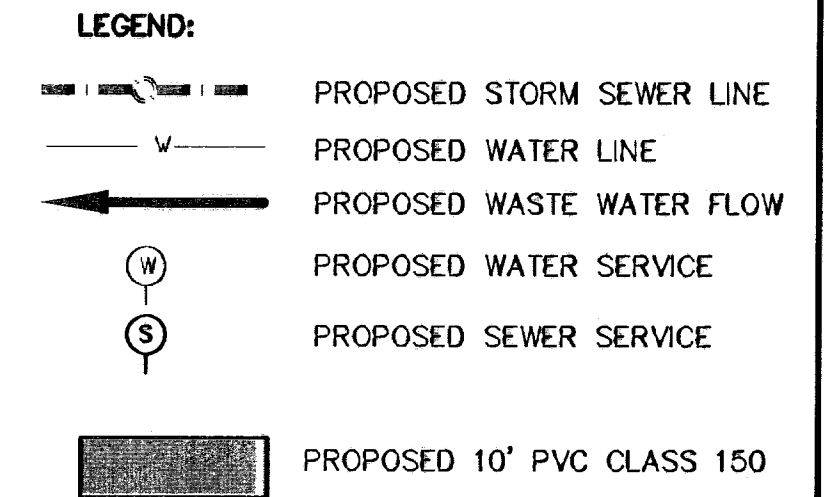
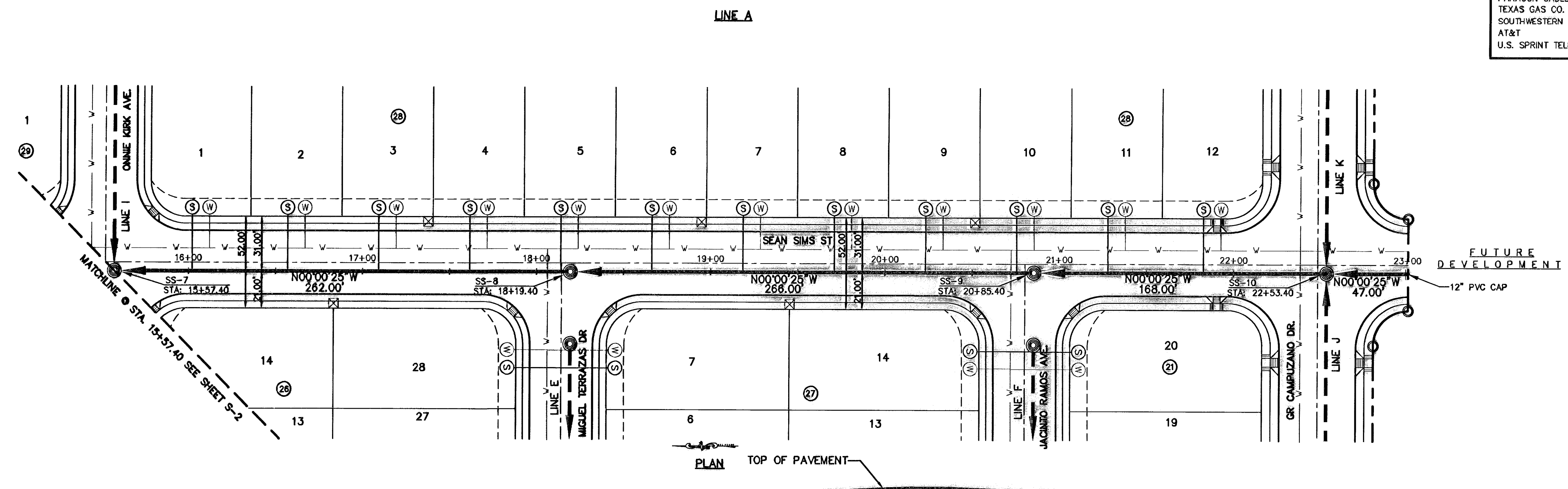
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ENGINEER'S SEAL  
 SCALE: Horizontal: 1"=40'  
 Vertical: 1"=5'  
 Contour Interval:  
 DATE: MARCH 2009  
 DESIGN BY: J.G.  
 DRAWN BY: D.N.  
 CHKO. BY: J.L.A.  
 APPVD. BY: J.L.A.  
 JOB NO. 2000-100-1D

PROJECT TITLE  
**TRES SUEÑOS UNIT SIX**  
**SUBDIVISION IMPROVEMENTS**

SHEET TITLE  
 SANITARY SEWER  
 PLAN & PROFILE  
 LINE A & B  
 SHEET NO.  
**S-3**  
 OF S-9

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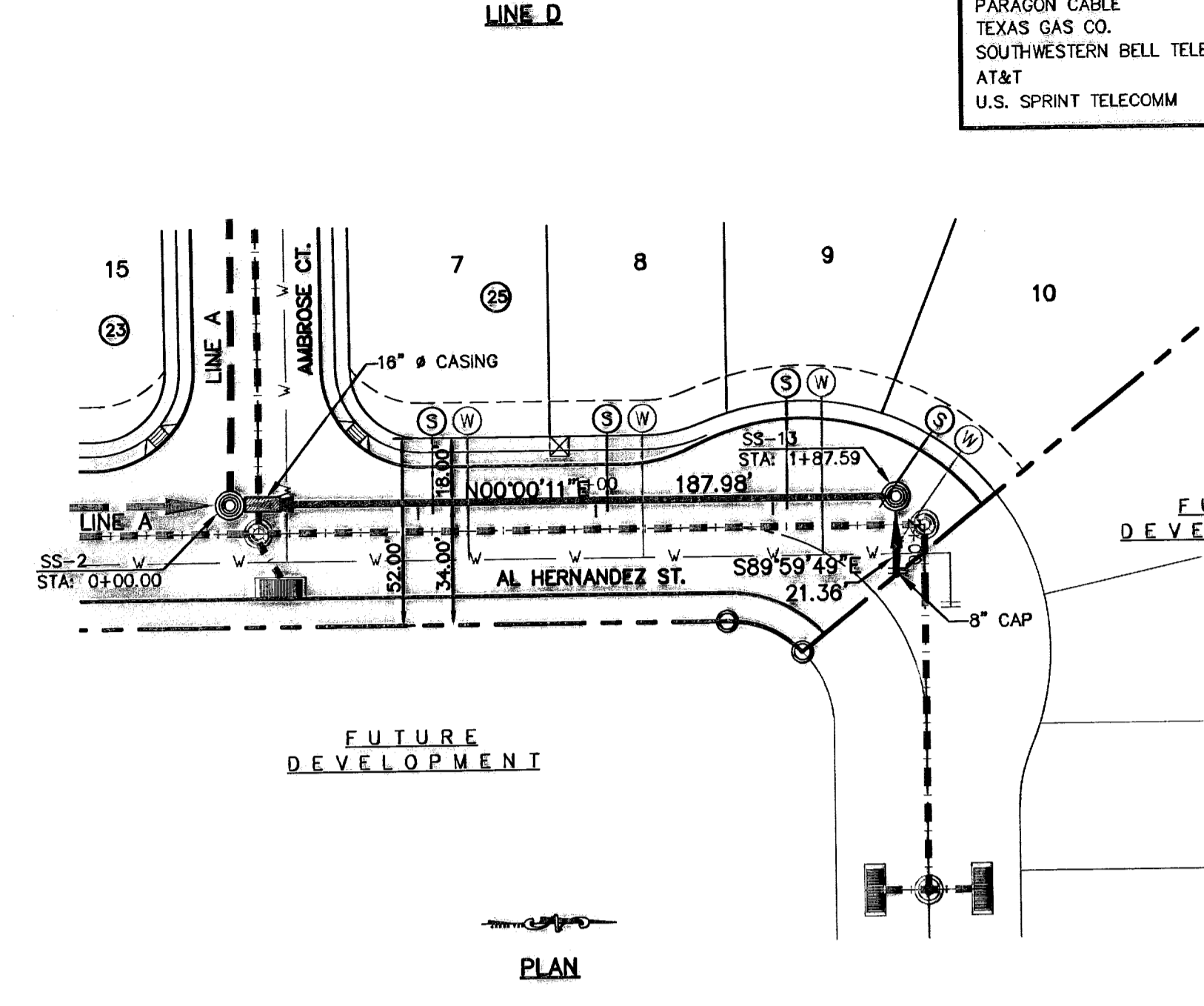
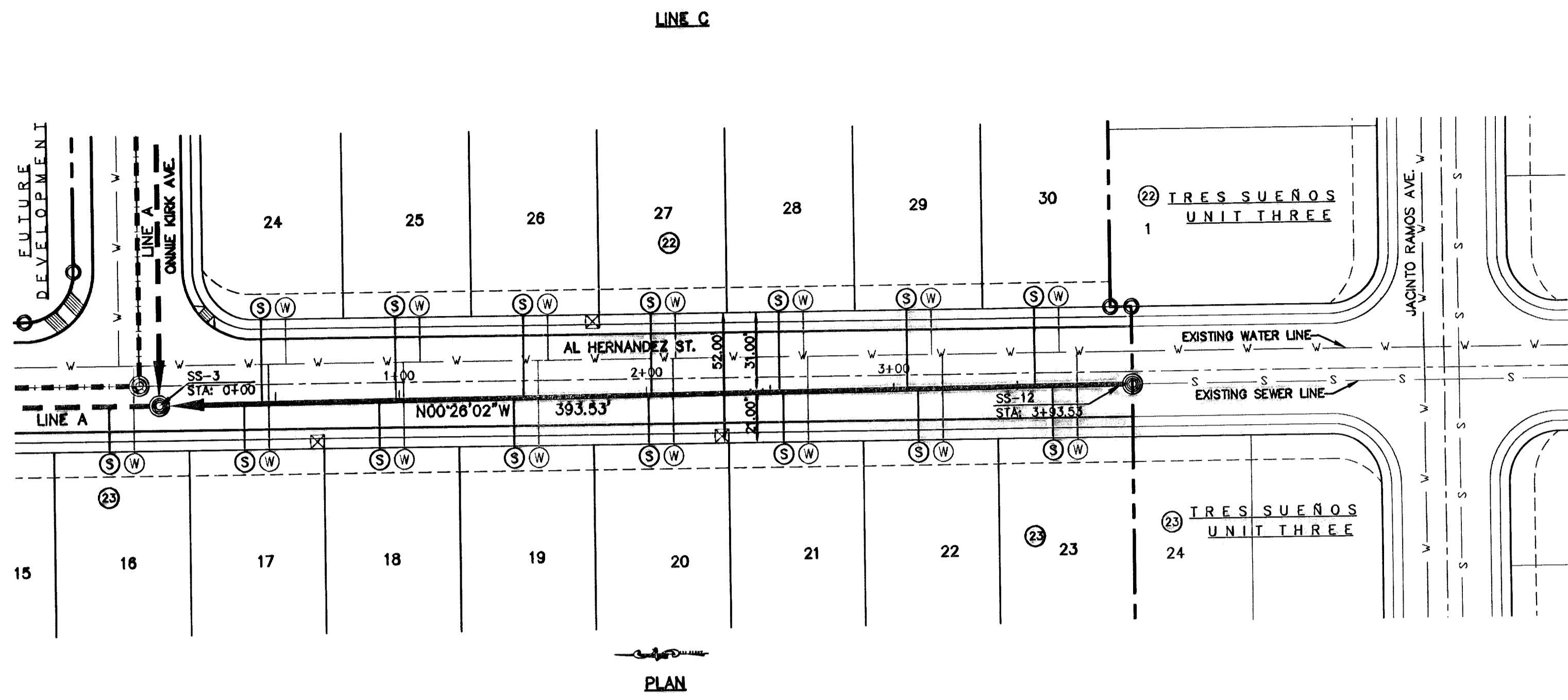
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AVENUE CITY DATUM .....4005.40

DATE	REVISIONS	BY

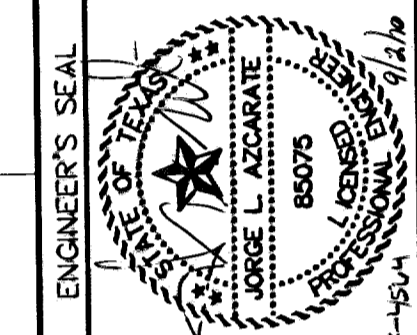
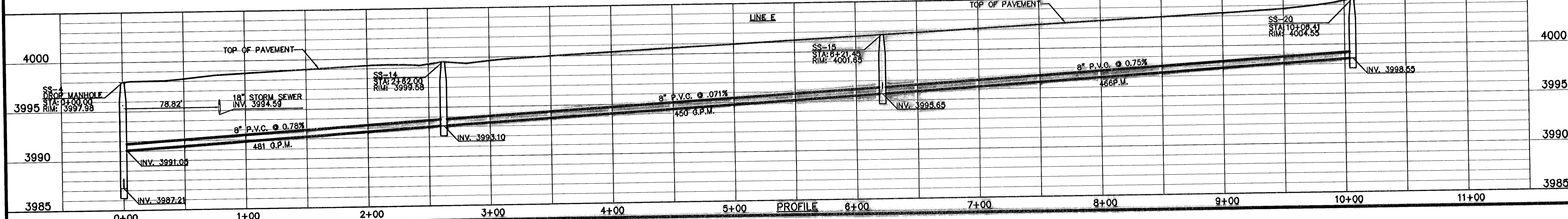
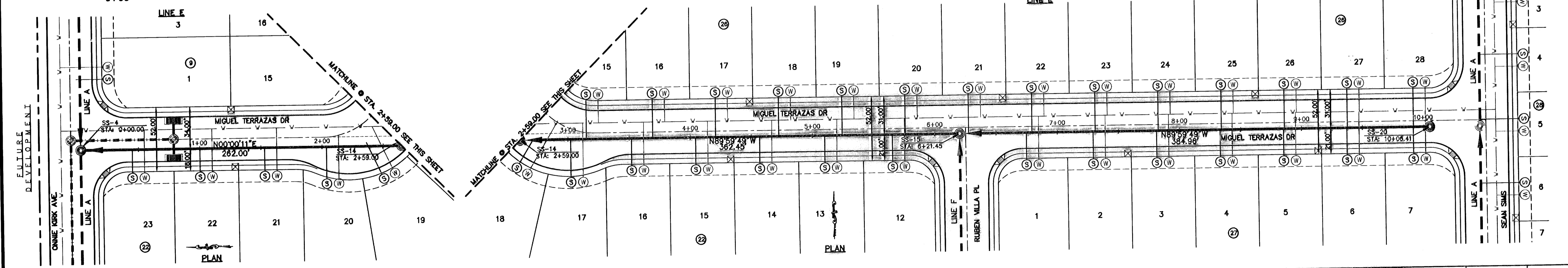
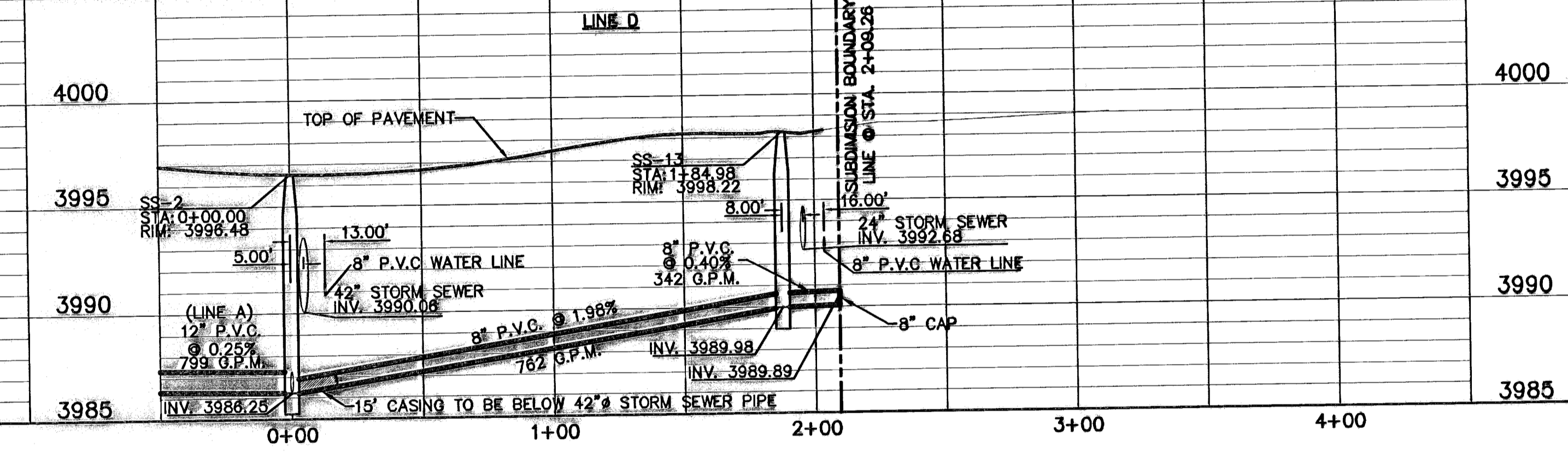
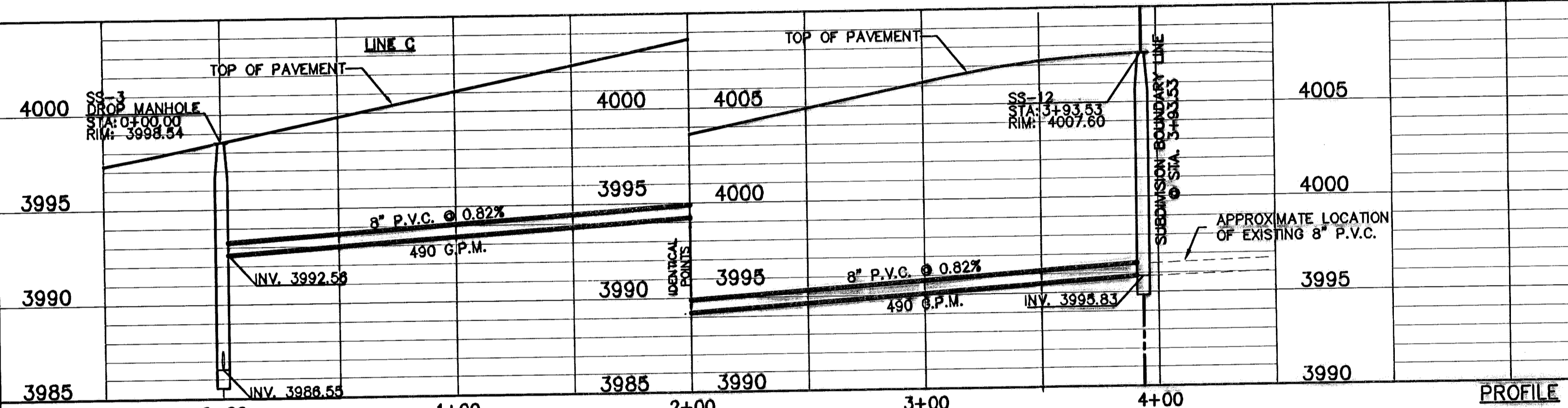
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- LEGEND:**
- PROPOSED STORM SEWER LINE
  - PROPOSED WATER LINE
  - PROPOSED WASTE WATER FLOW
  - ⊙ PROPOSED WATER SERVICE
  - ⊙ PROPOSED SEWER SERVICE
  - ▨ PROPOSED CASING CENTERED AT STORM SEWER CROSSING



SCALE: 1"=40'

Horizontal: 1"=50'

Vertical: 1"=5'

Contour Interval: 1'

DATE: MARCH 2009

DESIGN BY: J.A.

DRAWN BY: J.A.

CHECKED BY: J.A.

APP. BY: J.A.

JOB No.: 2008-100.LD

PROJECT TITLE

**TRES SUEÑOS UNIT SIX  
SUBDIVISION IMPROVEMENTS**

SHEET TITLE

SANITARY SEWER  
PLAN & PROFILE  
LINE C, D, E

SHEET NO.

**S-4**

OF S-9

UTILITY LOCATOR SERVICES	
EL PASO ELECTRIC COMPANY	(915) 543-5720
EL PASO ENERGY CORPORATION	(915) 498-5244
EL PASO WATER UTILITIES	(915) 594-5527
MCI SURVEILLANCE	(800) MCI-WORK
PARAGON CABLE	(915) 772-1123
TEXAS GAS CO.	(915) 544-8300
SOUTHWESTERN BELL TELEPHONE	(800) 828-5127
AT&T	(800) 852-3786
U.S. SPRINT TELECOMM	(800) 521-0579

**WARNING!**  
**BEFORE YOU DIG**

CALL  
1-800-DIG-TESS  
1-800-344-8377

FOR FIELD LOCATING EXISTING UTILITIES

**RECORD DRAWINGS**

THESE RECORD DOCUMENTS HAVE BEEN PREPARED BASED ON INFORMATION PROVIDED BY OTHERS. CEA GROUP HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION AND SHALL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS THAT MAY BE INCORPORATED AS A RESULT OF ERRONEOUS INFORMATION PROVIDED BY OTHERS.

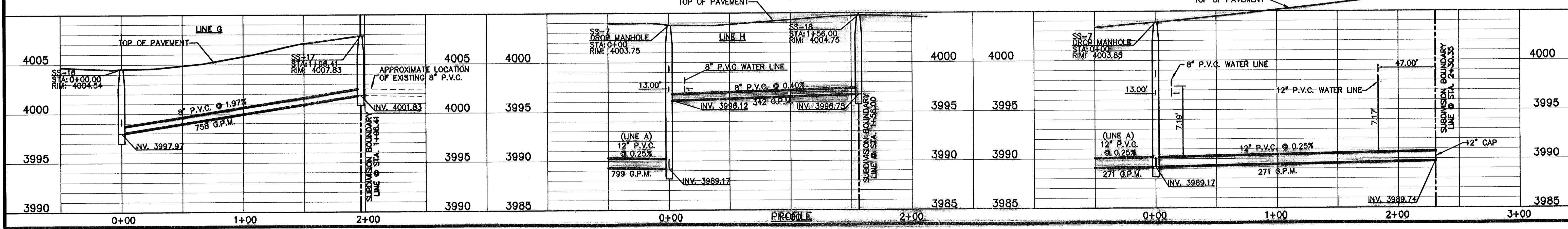
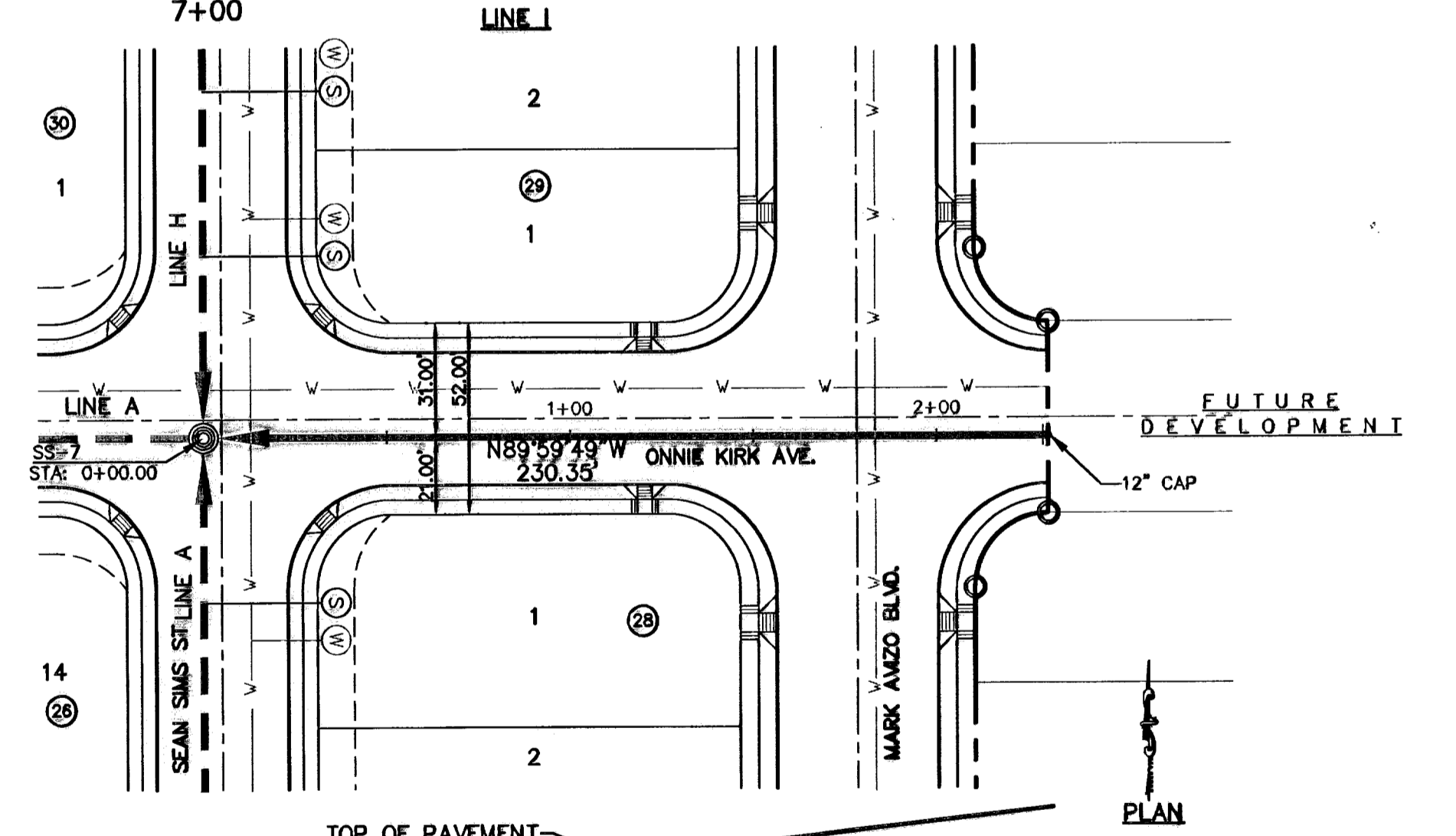
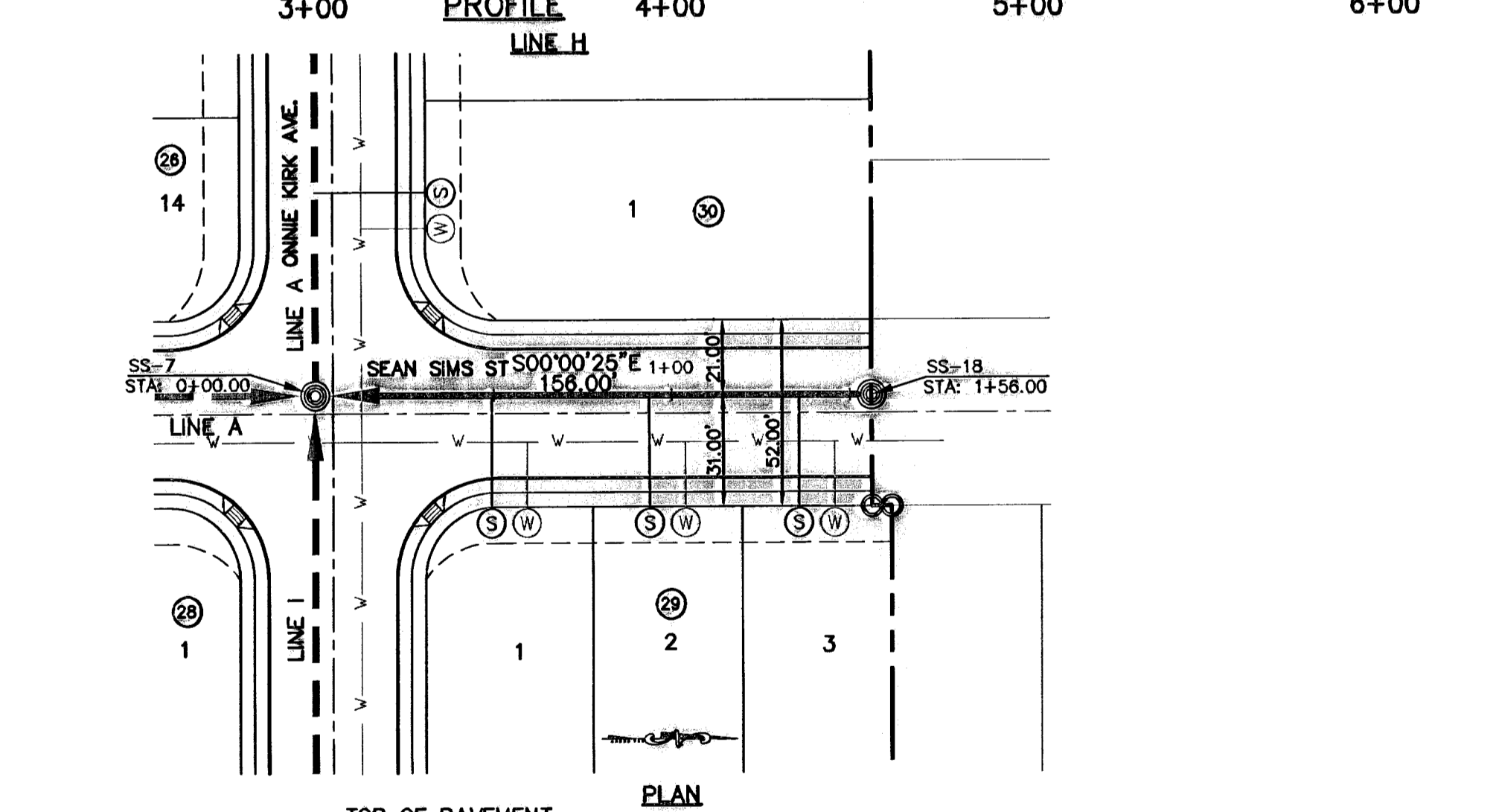
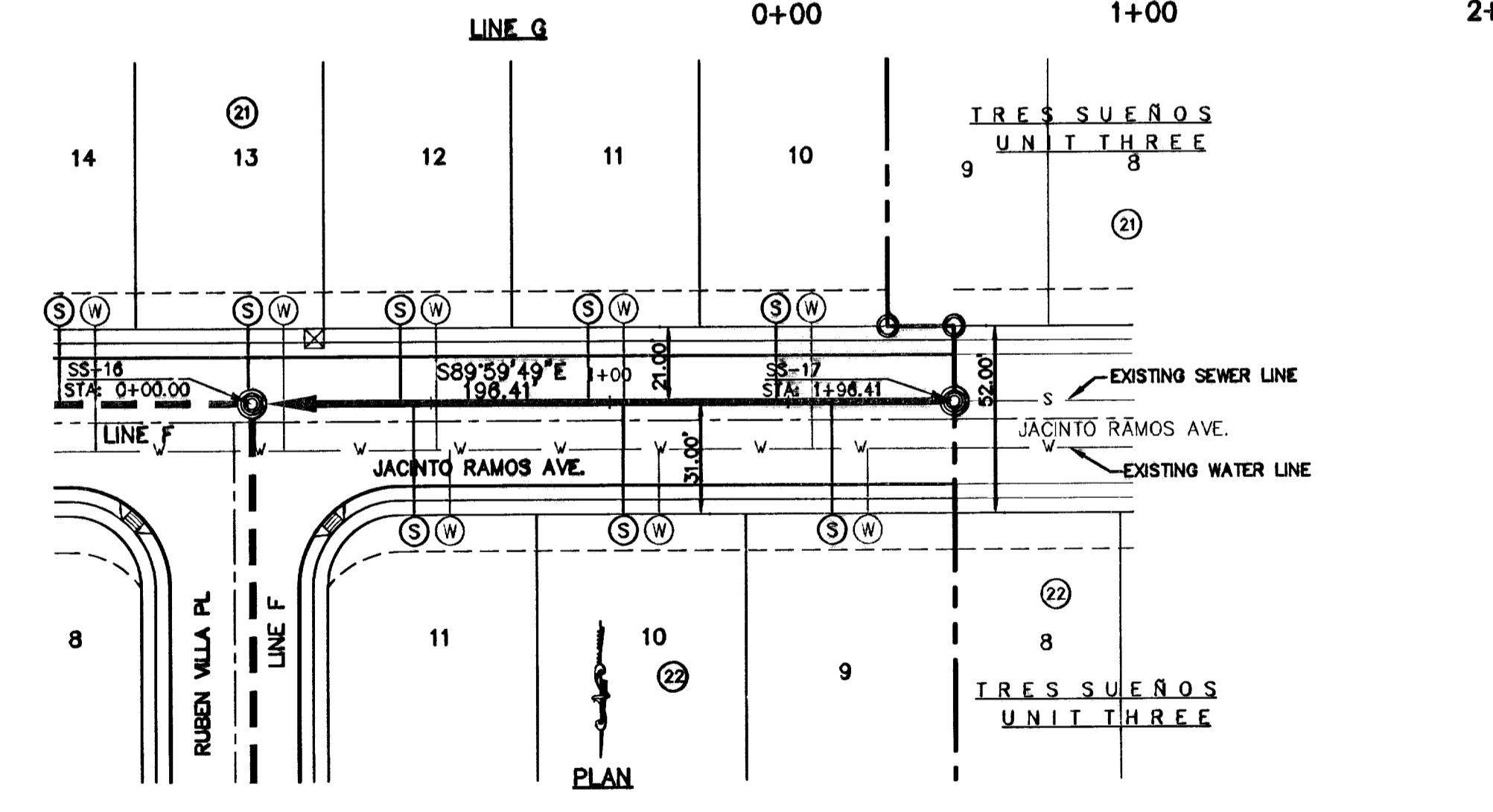
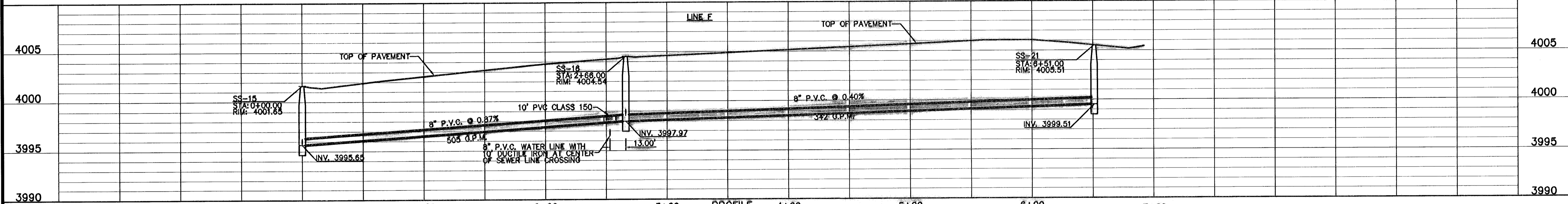
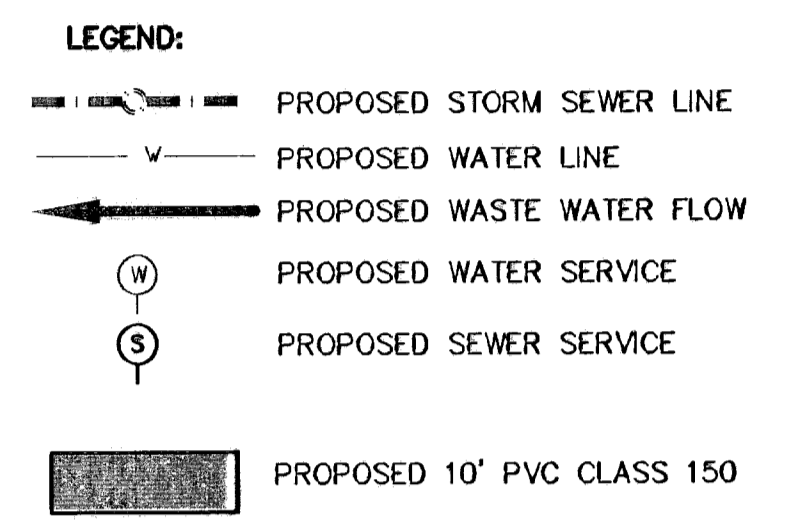
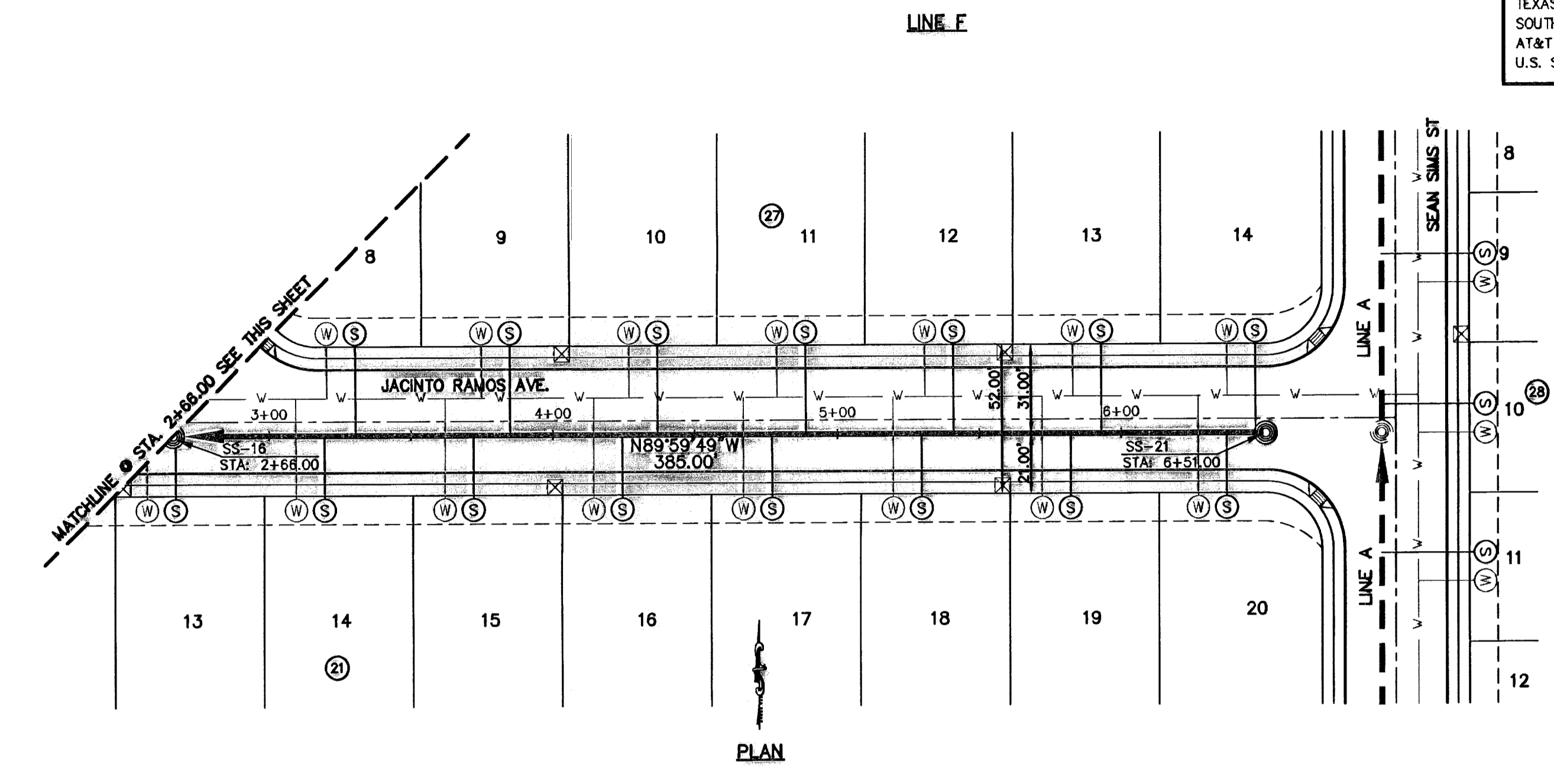
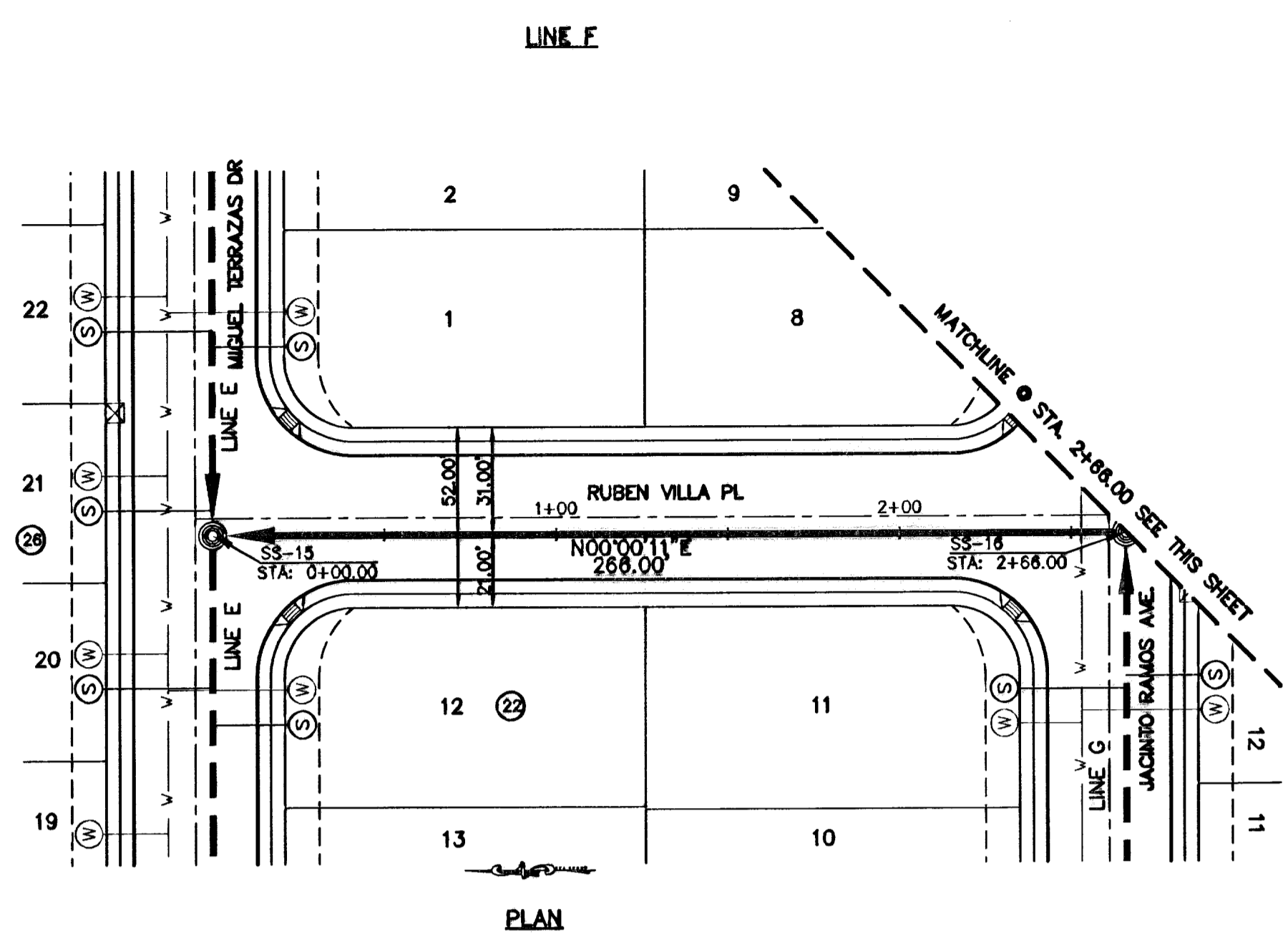
09/01/10

DATE	REVISIONS	BY

**CEA GROUP**

engineers • architects • planners

City of El Paso, Texas  
4712 West Center St., El Paso, TX 79904  
Office: 915.544.5252 Fax: 915.544.5233 www.ceagroup.net



ENGINEER'S SEAL

SCALE: Horizontal: 1"=40' Vertical: 1"=5' Contour Interval: 1'

DATE: MARCH 2009  
DESIGN BY: J.G.  
DRAWN BY: D.N.  
CHKD. BY: J.L.A.  
APPVD. BY: J.L.A.  
JOB NO.: 2000-100-1D-F-10/4

PROJECT TITLE

**TRES SUEÑOS UNIT SIX  
SUBDIVISION IMPROVEMENTS**

SHEET TITLE

**SANITARY SEWER  
PLAN & PROFILE  
LINE F, G, H, I**

SHEET NO.

**S-5**

OF S-9

**RECORD DRAWINGS**  
 THESE RECORD DRAWINGS HAVE BEEN PREPARED BY THE ENGINEER OR ARCHITECT BASED UPON THE INFORMATION PROVIDED BY OTHERS. OSA GROUP HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THE INFORMATION AND SHALL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS THAT MAY BE INCORPORATED AS A RESULT OF ERRONEOUS INFORMATION PROVIDED BY OTHERS.  
 09/01/10

**UTILITY LOCATOR SERVICES**  
 EL PASO ELECTRIC COMPANY (915) 543-5720  
 EL PASO ENERGY CORPORATION (915) 498-5244  
 EL PASO WATER UTILITIES (915) 502-5637  
 MCI SURVEILLANCE (800) MCI-WORK  
 PARAGON CABLE (915) 772-1123  
 TEXAS GAS CO. (915) 544-6300  
 SOUTHWESTERN BELL TELEPHONE (800) 828-5127  
 AT&T (800) 852-3786  
 U.S. SPRINT TELECOMM (800) 521-0579

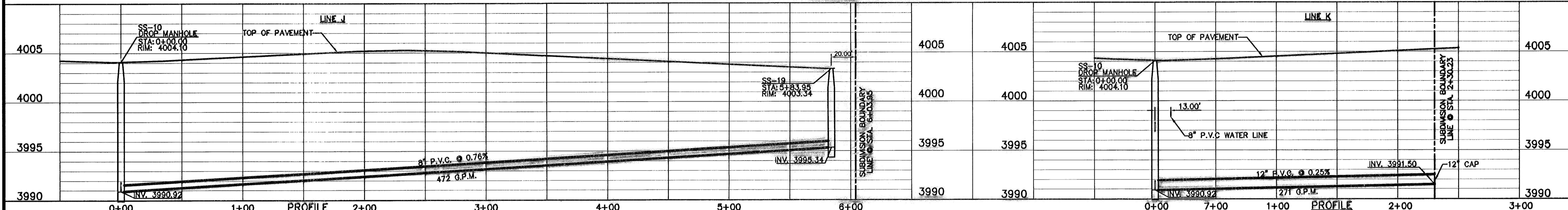
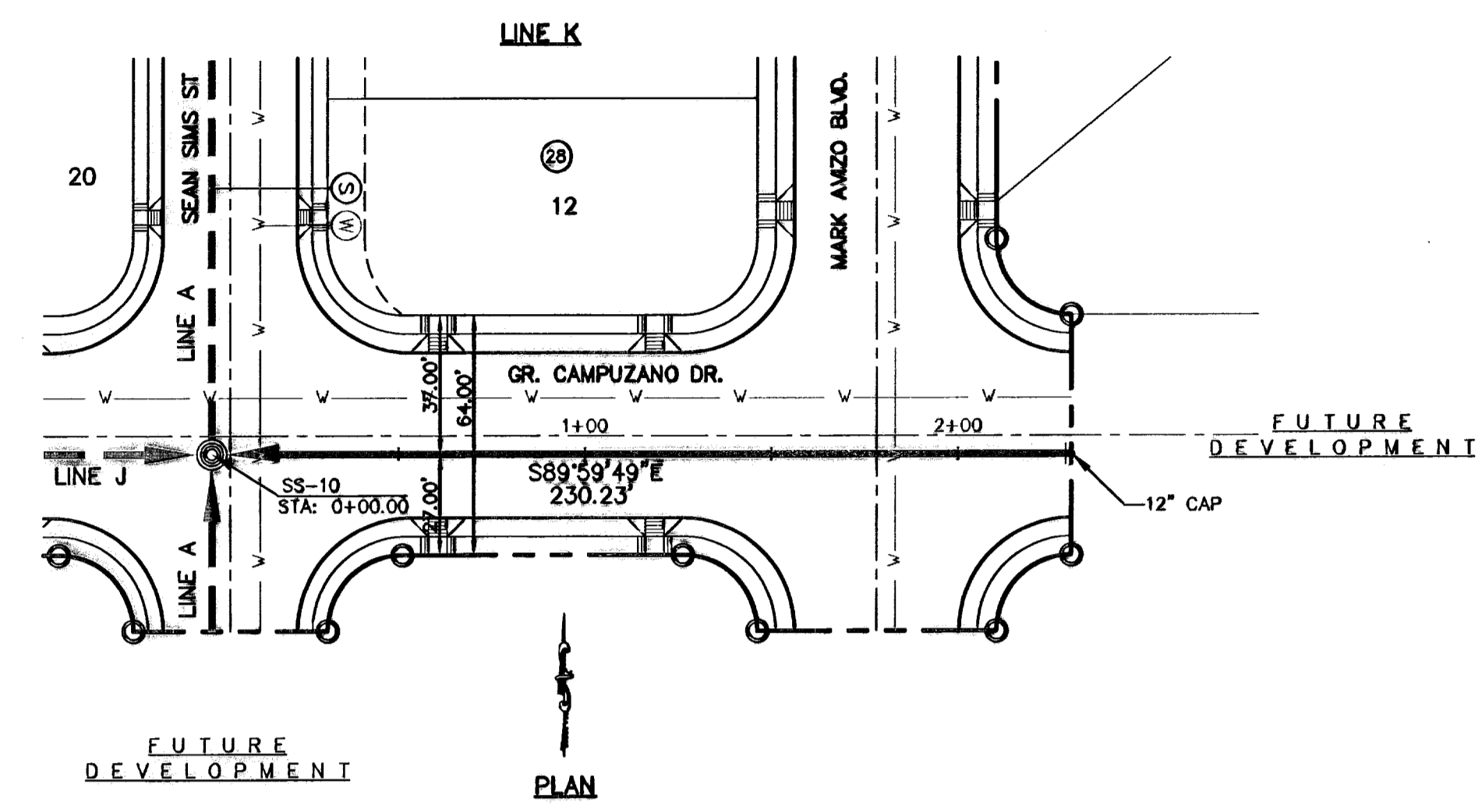
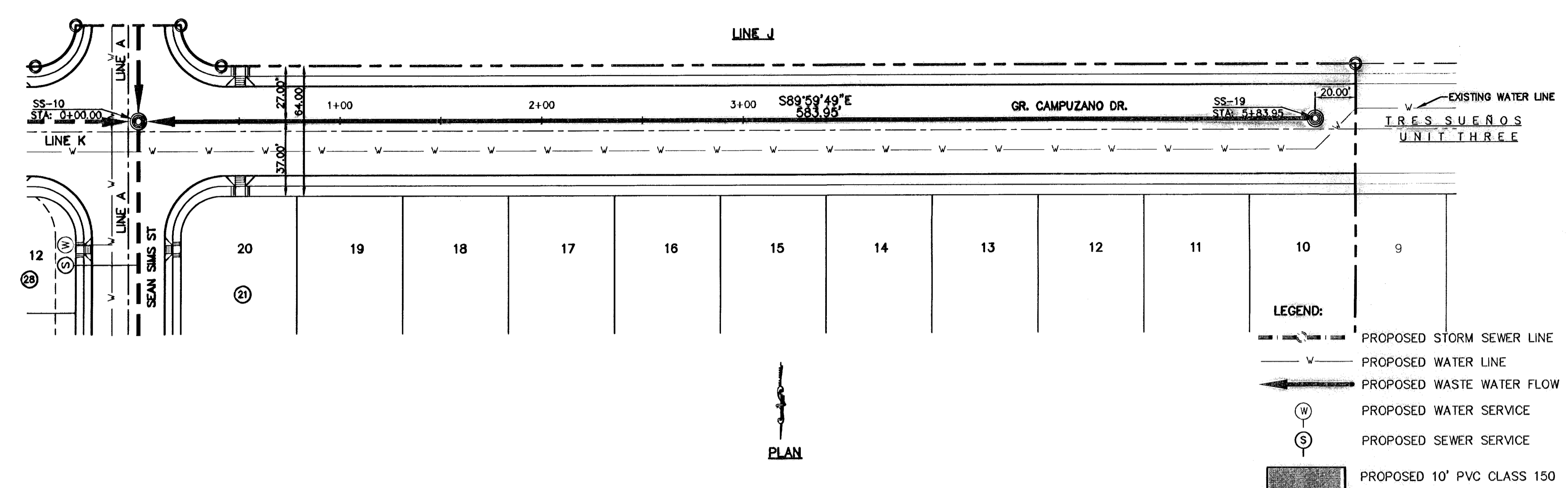
**WARNING!**  
**BEFORE YOU DIG**  
 CALL  
 1-800-DIG-TESS  
 1-800-344-8377  
 FOR FIELD LOCATING EXISTING UTILITIES

REFERENCES - BENCHMARKS:  
 CITY MONUMENT AT POINT OF CURVE  
 CENTERLINE OF BECK BLVD. CORNER 30' E A  
 DISTANCE OF 487.85 FEET FROM THE  
 SOUTHERLY RIGHT OF WAY LINE OF MONTANA  
 AVENUE CITY DATUM  
 ELEVATION.....4005.40

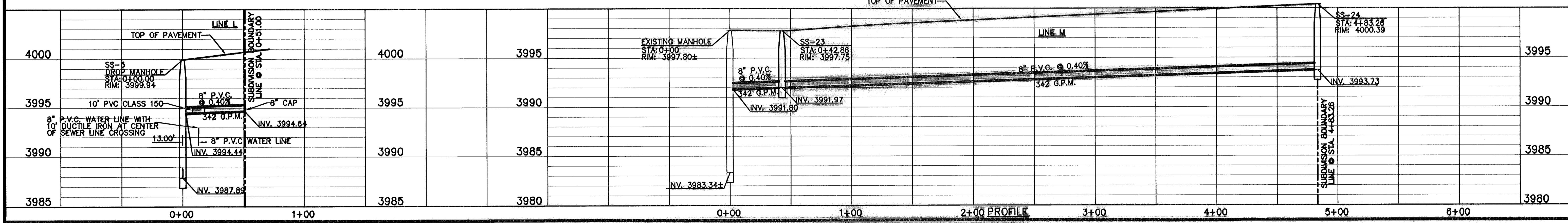
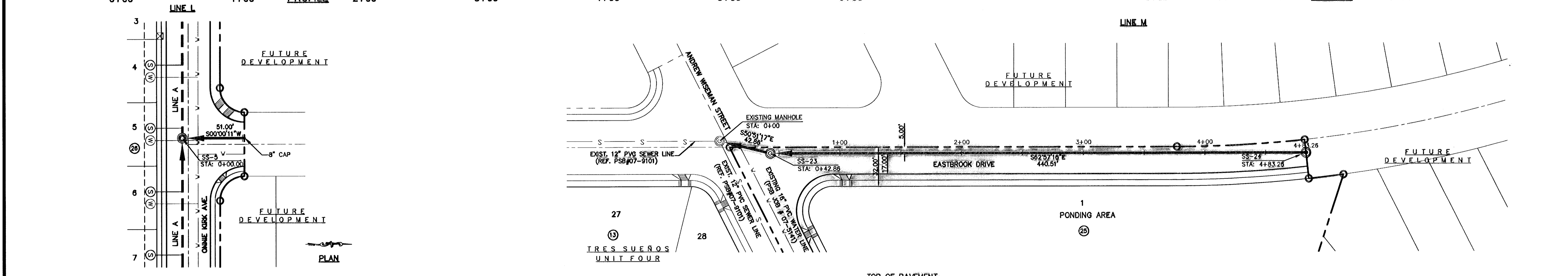
DATE \_\_\_\_\_ REVISIONS \_\_\_\_\_ BY \_\_\_\_\_

**osa**  
**GROUP**  
 engineers • architects • planners  
 Casner Center @ Transmountain  
 712 Westwood Blvd., Suite 100, El Paso, TX 79902  
 Phone: (915) 762-1234 Fax: (915) 762-1235

FUTURE DEVELOPMENT



ENGINEER'S SEAL  
 SCALE  
 Horizontal: 1"=40'  
 Vertical: 1"=5'  
 Contour Interval: \_\_\_\_\_  
 DATE: MARCH 2009  
 DESIGN BY: J.G.  
 DRAWN BY: D.N.  
 CHD. BY: J.L.A.  
 APPVD. BY: J.L.A.  
 JOB No. 2000-100 LD P-1514

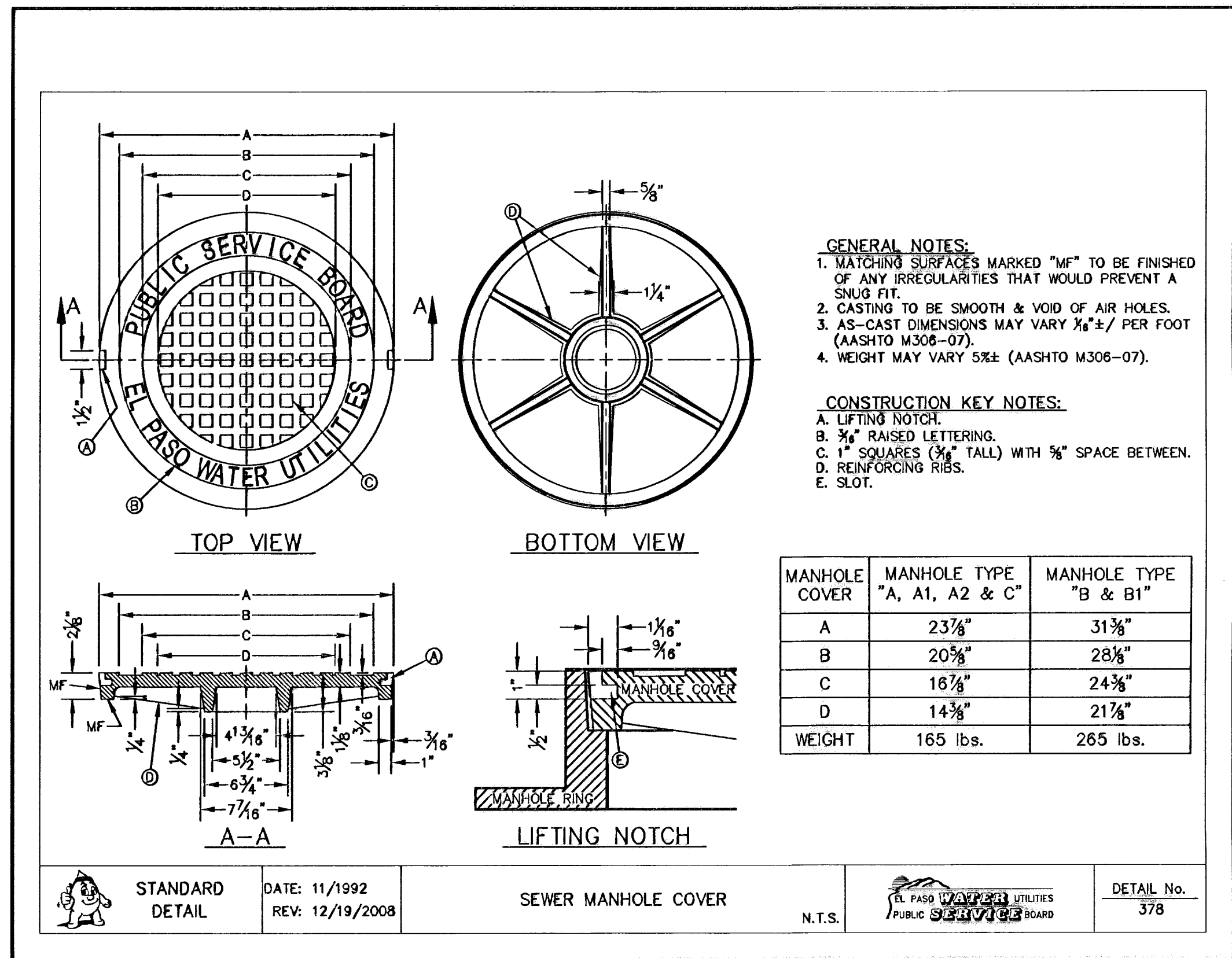


PROJECT TITLE  
**TRES SUEÑOS UNIT SIX**  
**SUBDIVISION IMPROVEMENTS**

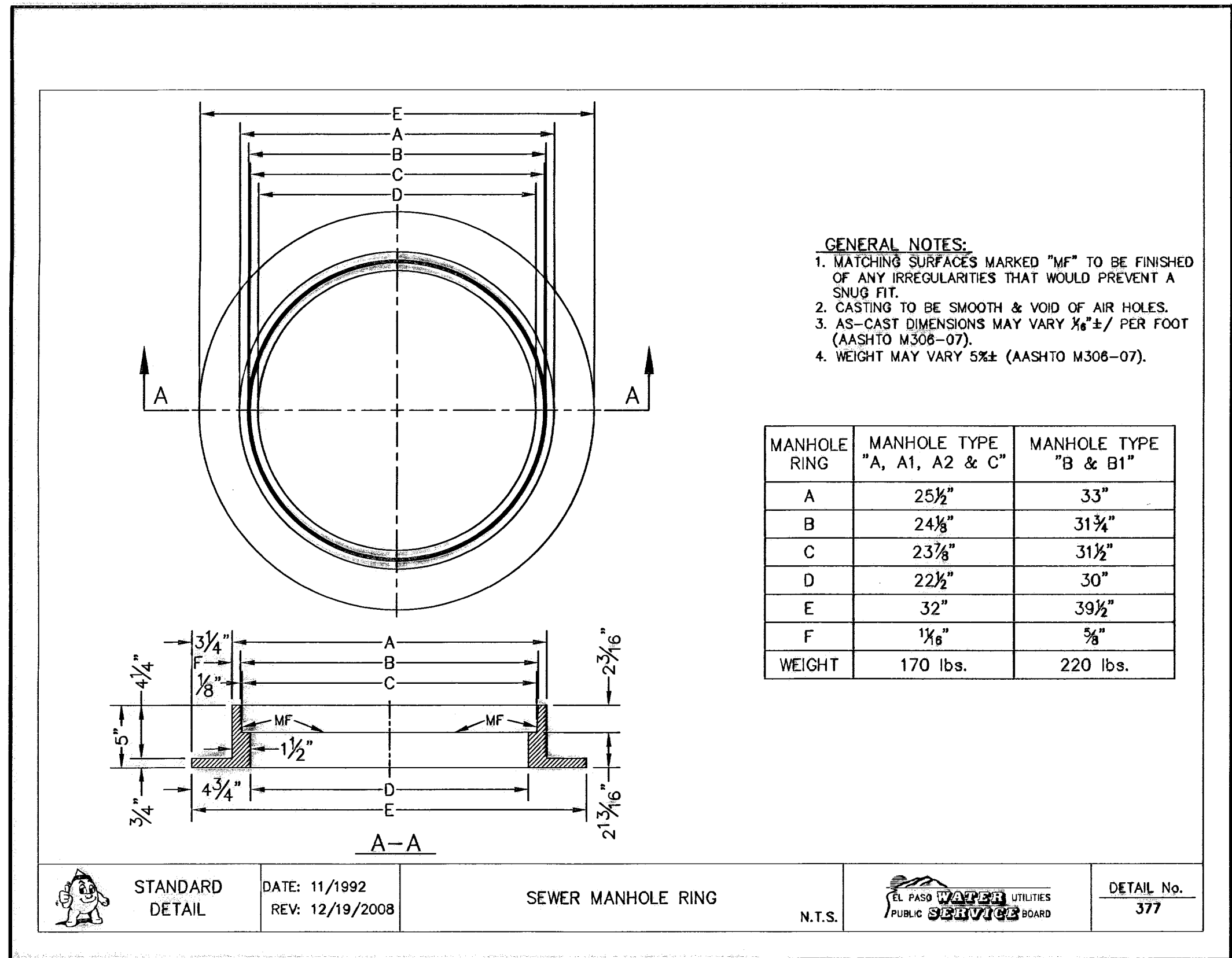
SHEET TITLE  
 SANITARY SEWER  
 PLAN & PROFILE  
 LINE J, K, L, M

SHEET NO.  
**S-6**

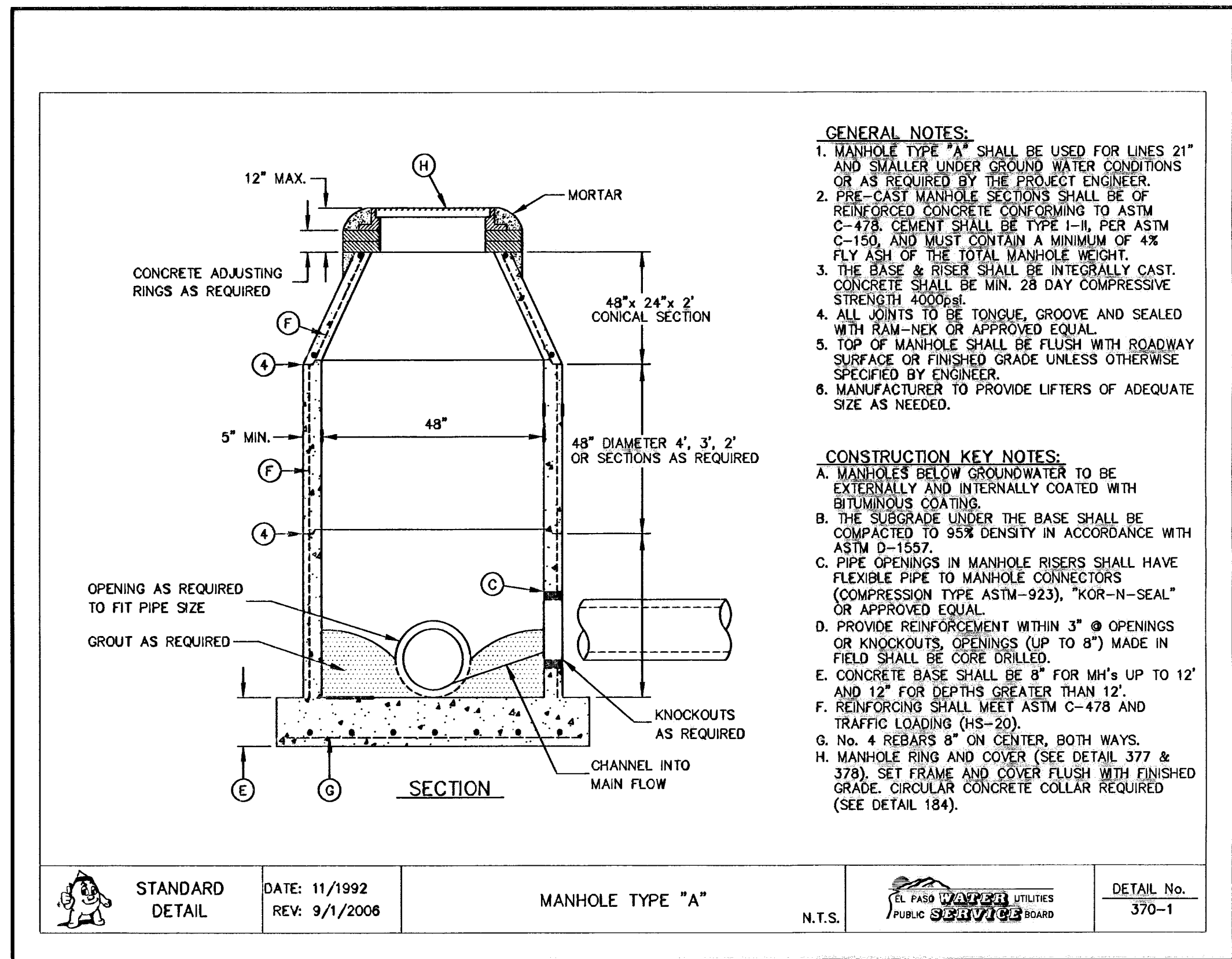
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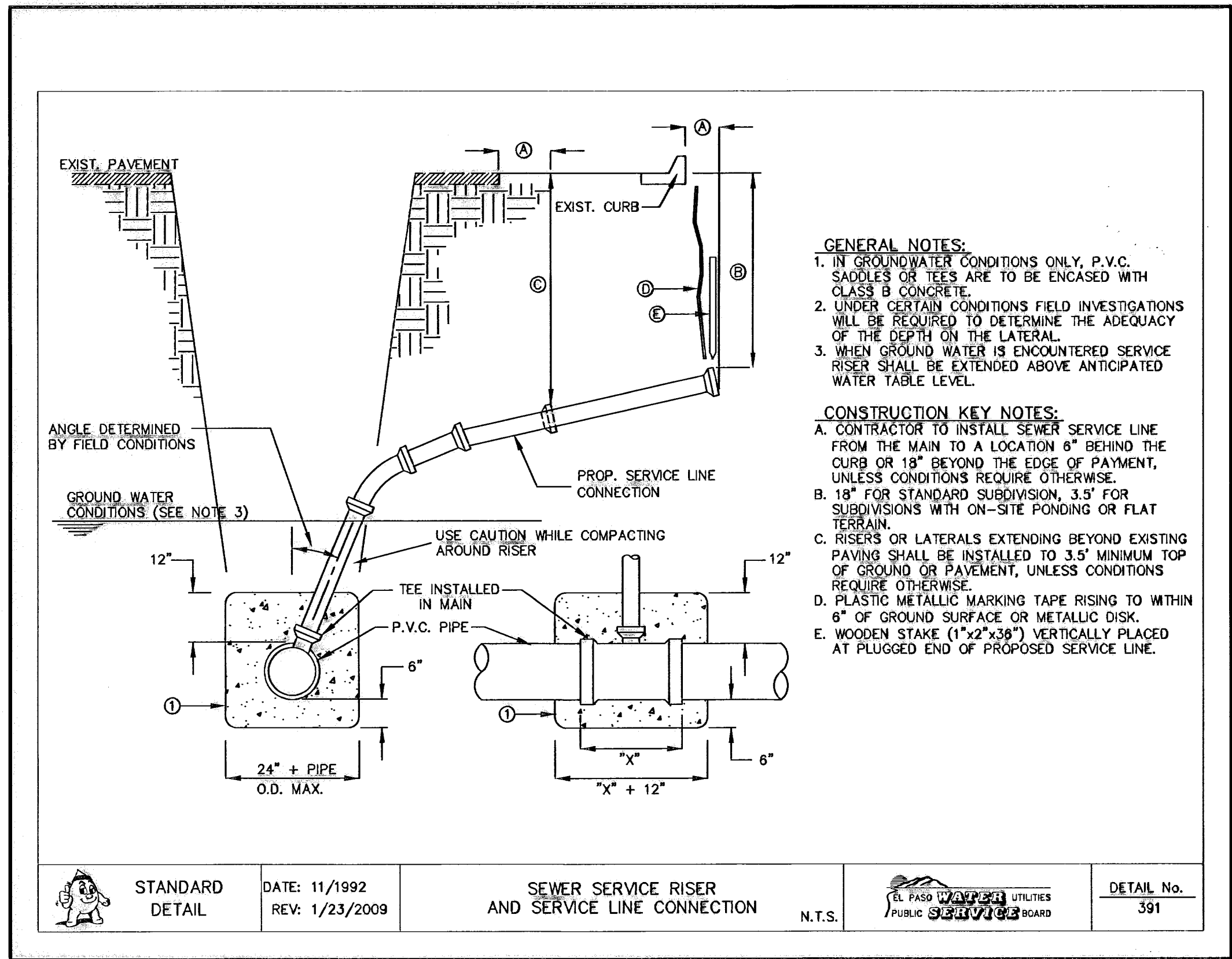
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2 SEWER MANHOLE RING SCALE: N.T.S.



3 MANHOLE TYPE "A" SCALE: N.T.S.

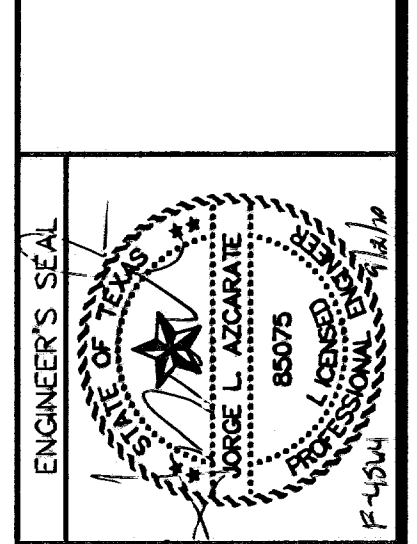


4 SEWER SERVICE RISER AND SERVICE LINE CONNECTION SCALE: N.T.S.

**RECORD DRAWINGS**  
 THESE RECORD DOCUMENTS HAVE BEEN PREPARED BASED ON INFORMATION PROVIDED BY OTHERS. CEA GROUP HAS NOT VERIFIED THE ACCURACY OR COMPLETENESS OF THE INFORMATION AND SHALL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS THAT MAY BE INCORPORATED AS A RESULT OF ERRONEOUS INFORMATION PROVIDED BY OTHERS.  
 09/01/10

REFERENCES - BENCHMARKS  
 CITY MONUMENT AT POINT OF CURVE  
 CENTERLINE RICH BEEM BLVD., S08°43'31" E x A  
 DISTANCE OF 467.58 FEET FROM THE  
 SOUTHERLY RIGHT OF WAY LINE OF MONTANA  
 AVENUE CITY DATUM  
 ELEVATION.....4005.40  
 DATE REVISIONS BY

**CEA GROUP**  
 engineers • architects • planners  
 CEA Group, Inc. 10000 Mountain  
 Center, Center @ The Summit  
 4712 Woodrow Bann, Ste. F El Paso, TX 78624  
 Office: 915.544.5232 Fax: 915.544.5233 www.ceagroup.com



SCALE: N/A  
 Horizontal: N/A  
 Vertical: N/A  
 Contour Interval: 1'  
 DATE: MARCH 2009  
 DESIGN BY: J.G.  
 DRAWN BY: D.N.  
 CHK'D. BY: J.L.A.  
 APP'D. BY: J.L.A.  
 JOB No. 2008-100 LD F-104

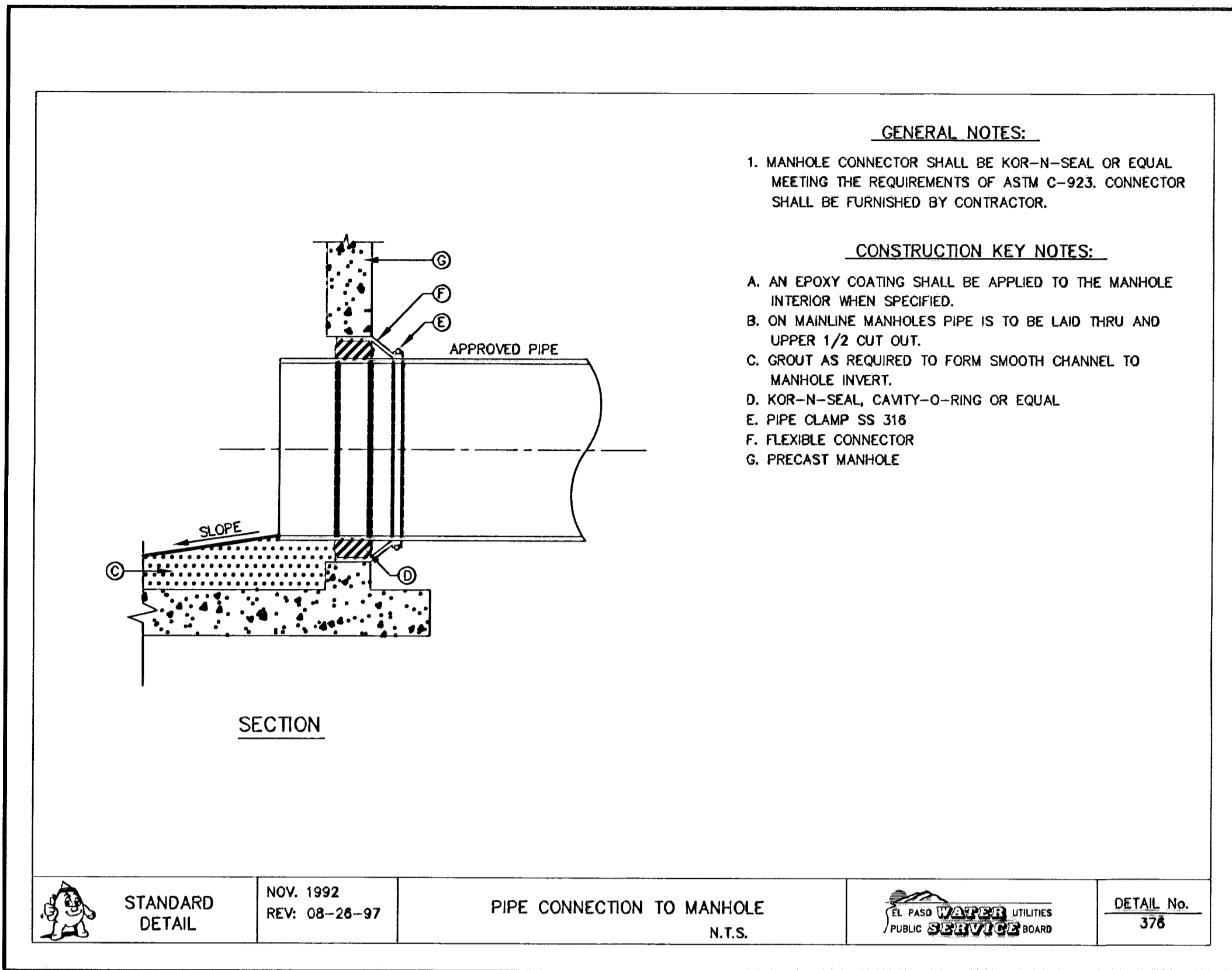
PROJECT TITLE  
**TRES SUEÑOS UNIT SIX  
 SUBDIVISION IMPROVEMENTS**

SHEET TITLE  
**SANITARY SEWER  
 DETAILS  
 (SHEET 1 OF 3)**

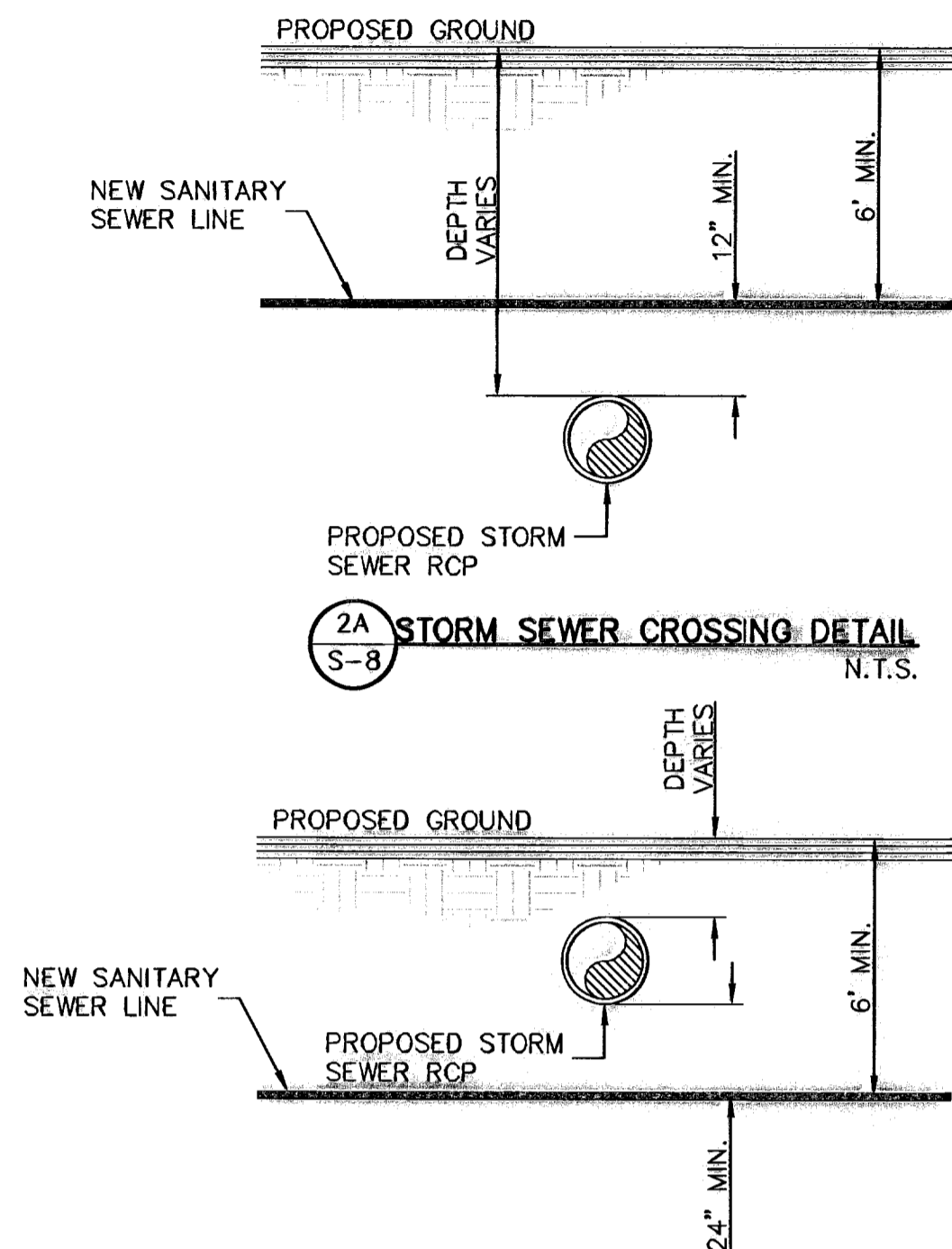
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S-7

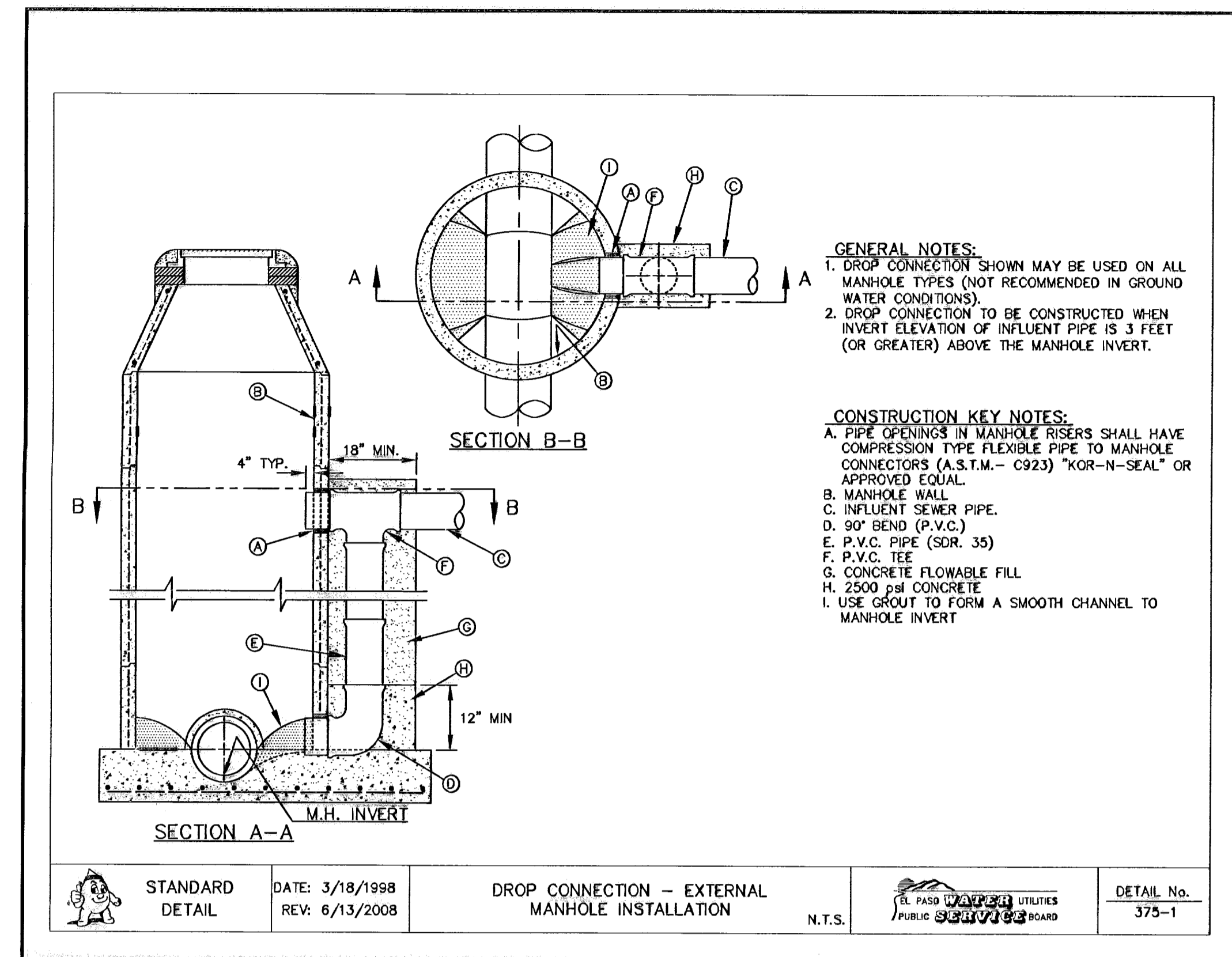
OF S-9



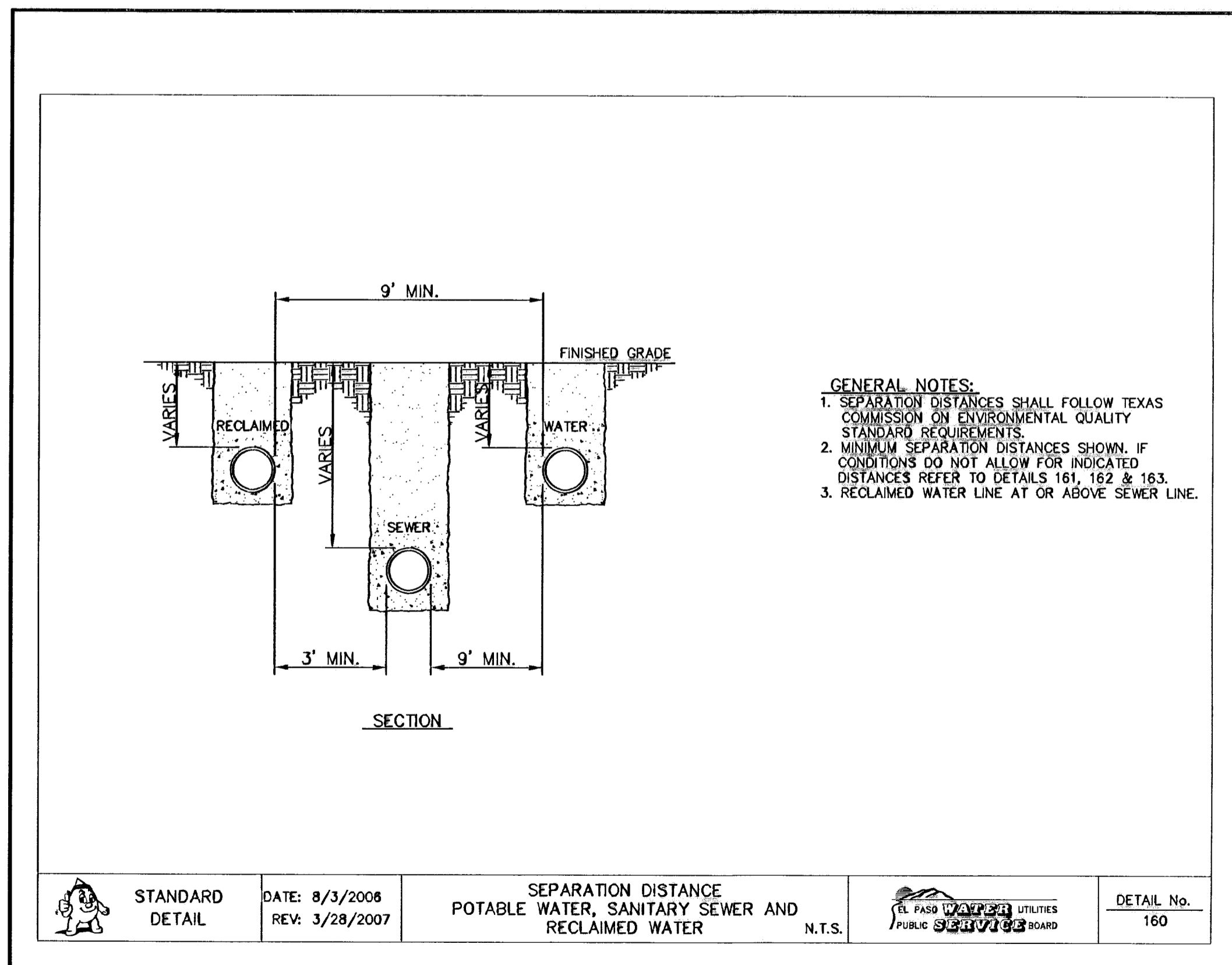
1 PIPE CONNECTION TO MANHOLE  
SCALE: N.T.S.



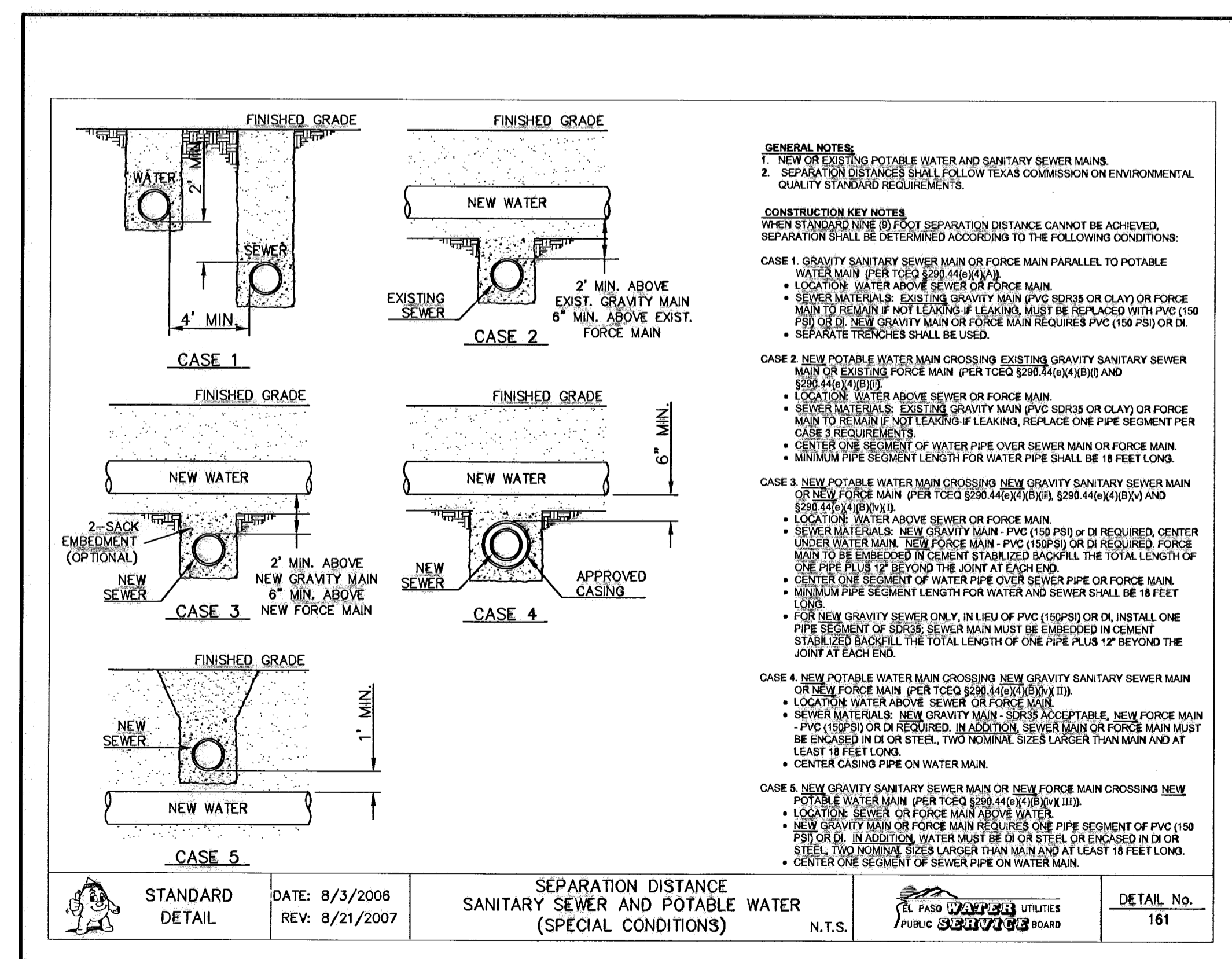
2A STORM SEWER CROSSING DETAIL  
SCALE: N.T.S.



3 DROP CONNECTION - EXTERNAL  
MANHOLE INSTALLATIONS  
SCALE: N.T.S.



4 SEPARATION DISTANCE  
POTABLE WATER, SANITARY AND RECLAIMED WATER  
SCALE: N.T.S.



5 SEPARATION DISTANCE  
SANITARY SEWER AND POTABLE WATER  
(SPECIAL CONDITIONS) SCALE: N.T.S.

RECORD DRAWINGS

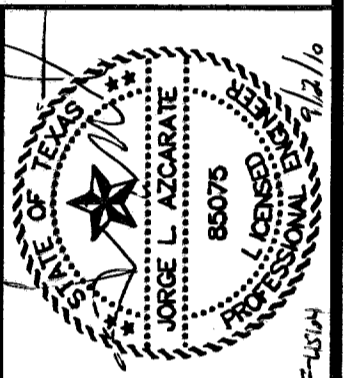
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REFERENCES - BENCHMARKS  
 CITY MONUMENT AT POINT OF CURVE  
 CENTERLINE RICH BENEVAL ST  
 DISTANCE OF 467.88 FEET FROM THE  
 SOUTHERLY RIGHT OF WAY LINE OF MONTANA  
 AVENUE CITY DATUM  
 ELEVATION: .....4405.40

DATE \_\_\_\_\_ REVISIONS \_\_\_\_\_ BY \_\_\_\_\_

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 OSA GROUP  
 engineers • architects • planners  
 Planner Center  
 1100 W. 11th Street  
 Oklahoma City, Oklahoma 73102  
 Phone: 405.544.4222 Fax: 405.544.4223 www.osagroup.net



SCALE: N/A  
 Horizontal: N/A  
 Vertical: N/A  
 Contour Interval: N/A

DATE: MARCH 2008  
 DESIGN BY: J.G.  
 DRAWN BY: D.N.  
 CHKO. BY: J.L.A.  
 APPROV. BY: J.L.A.

JOB No. 2008-100 ID P-004

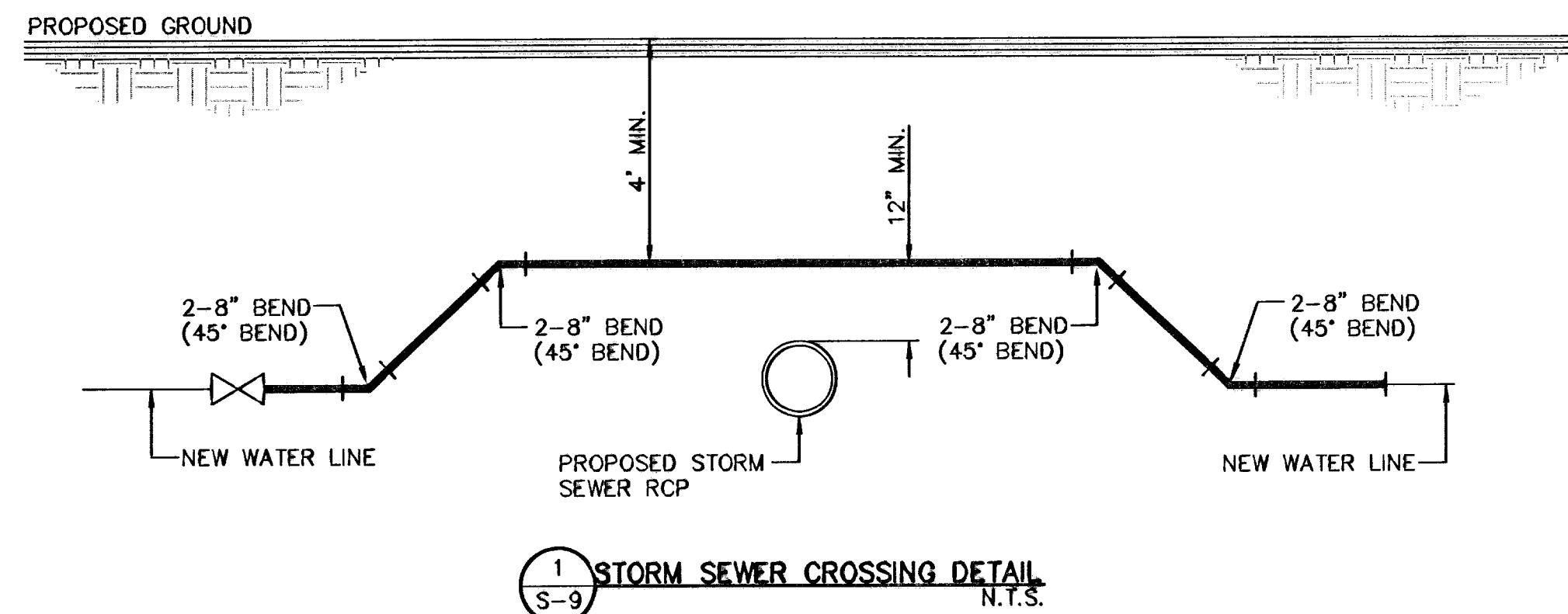
PROJECT TITLE  
**TRES SUEÑOS UNIT SIX  
 SUBDIVISION IMPROVEMENTS**

SHEET TITLE  
**SANITARY SEWER  
 DETAILS  
 (SHEET 2 OF 3)**

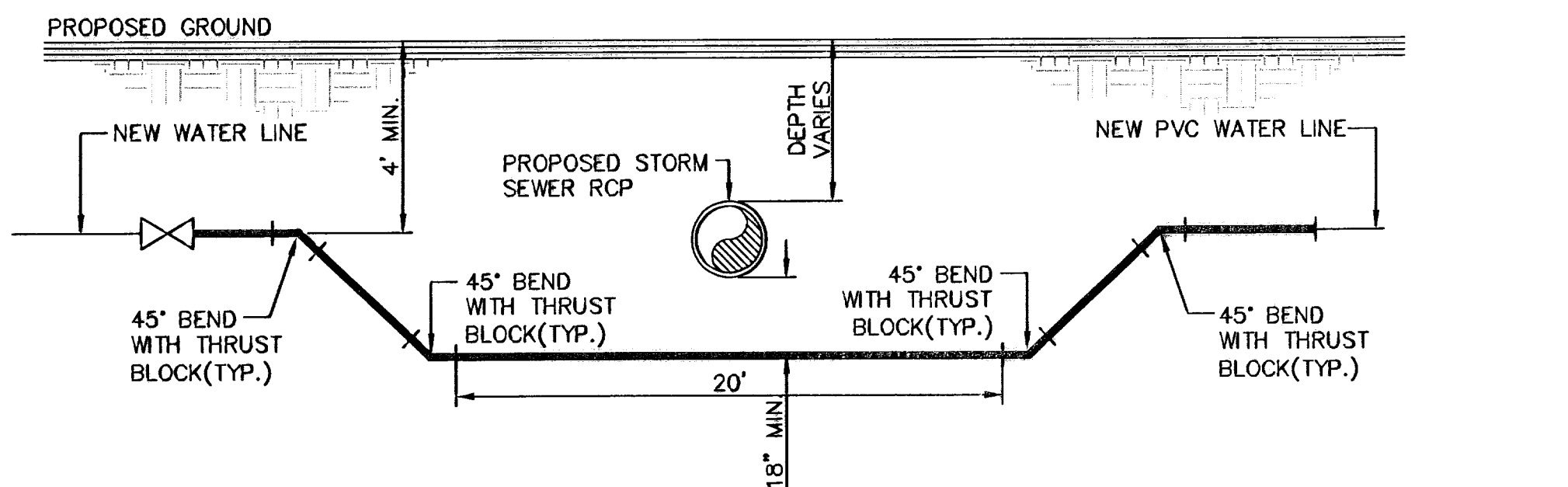
SHEET NO.

S-8

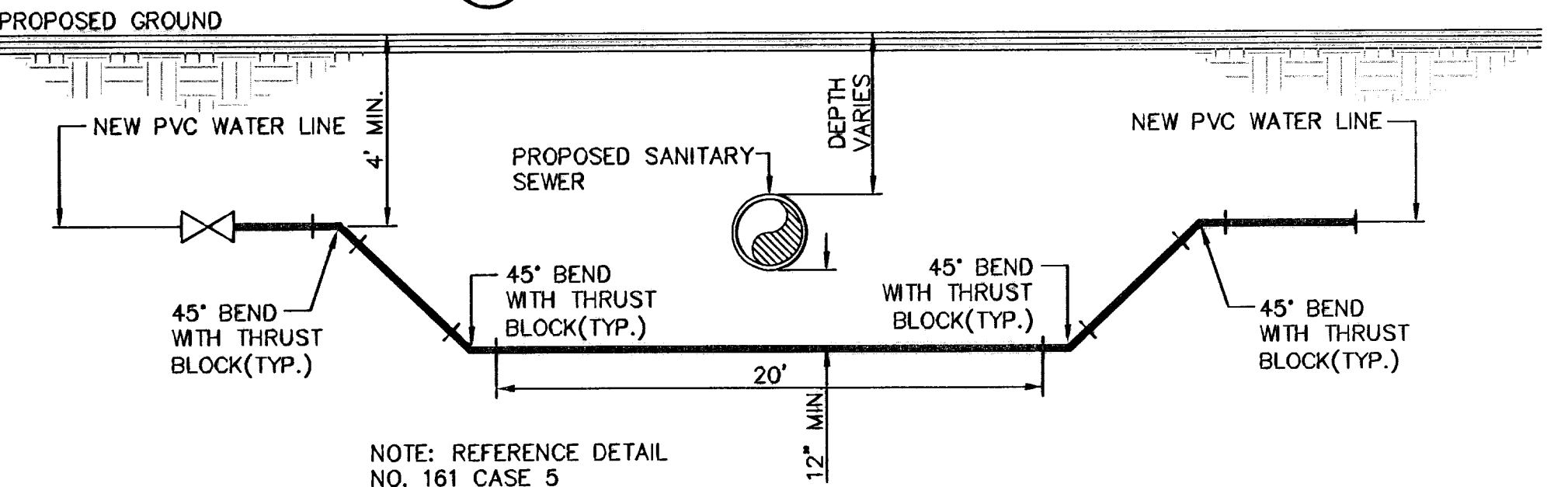
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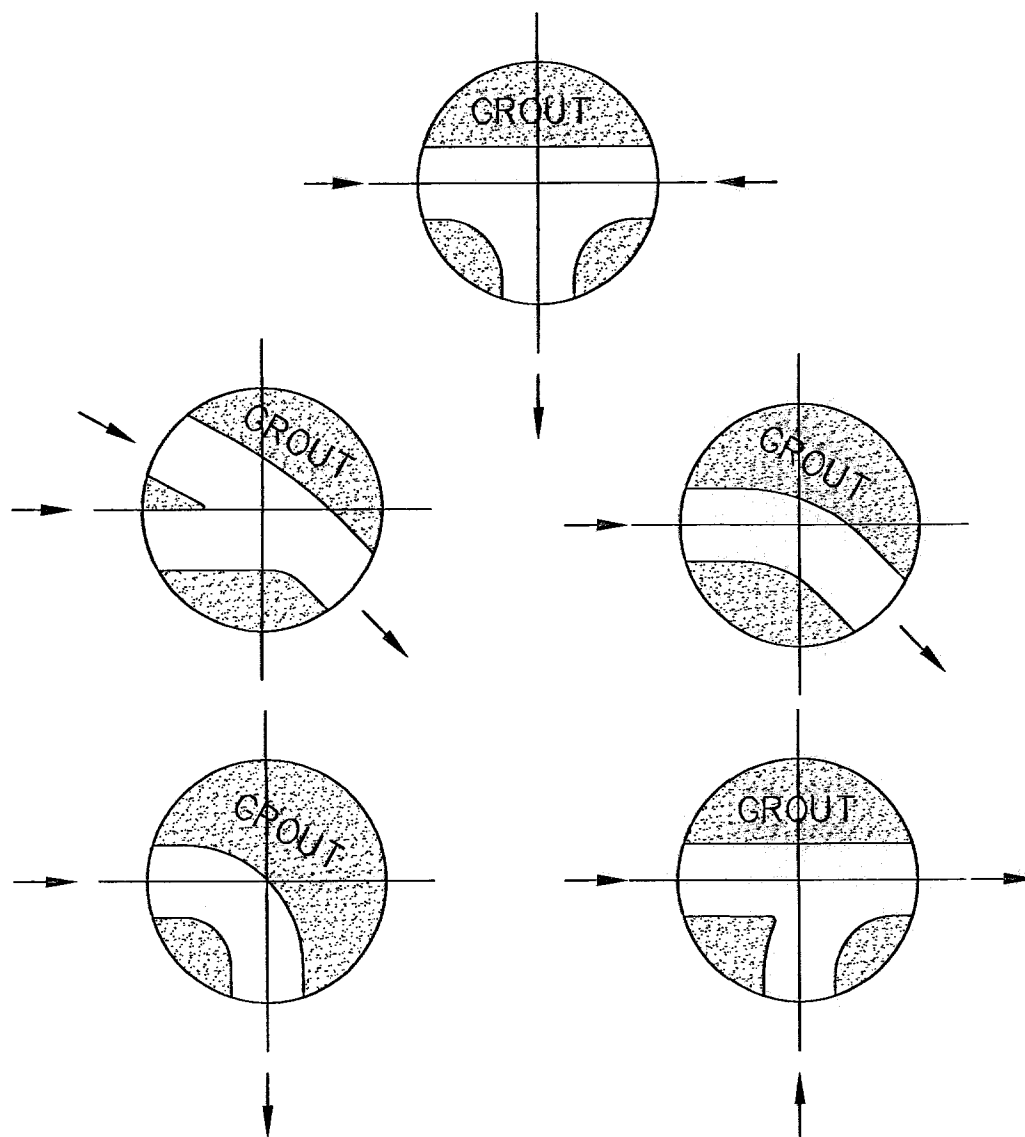
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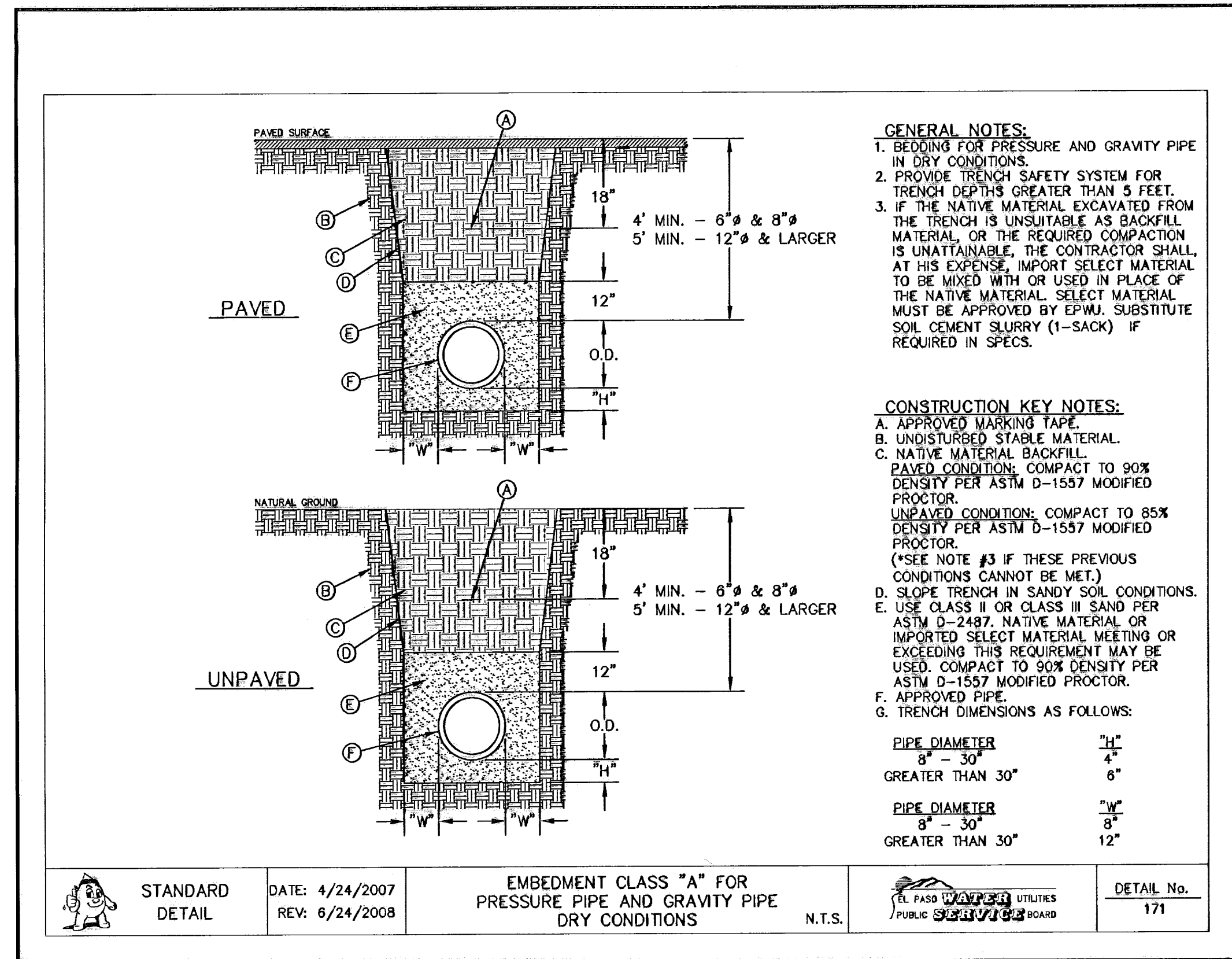
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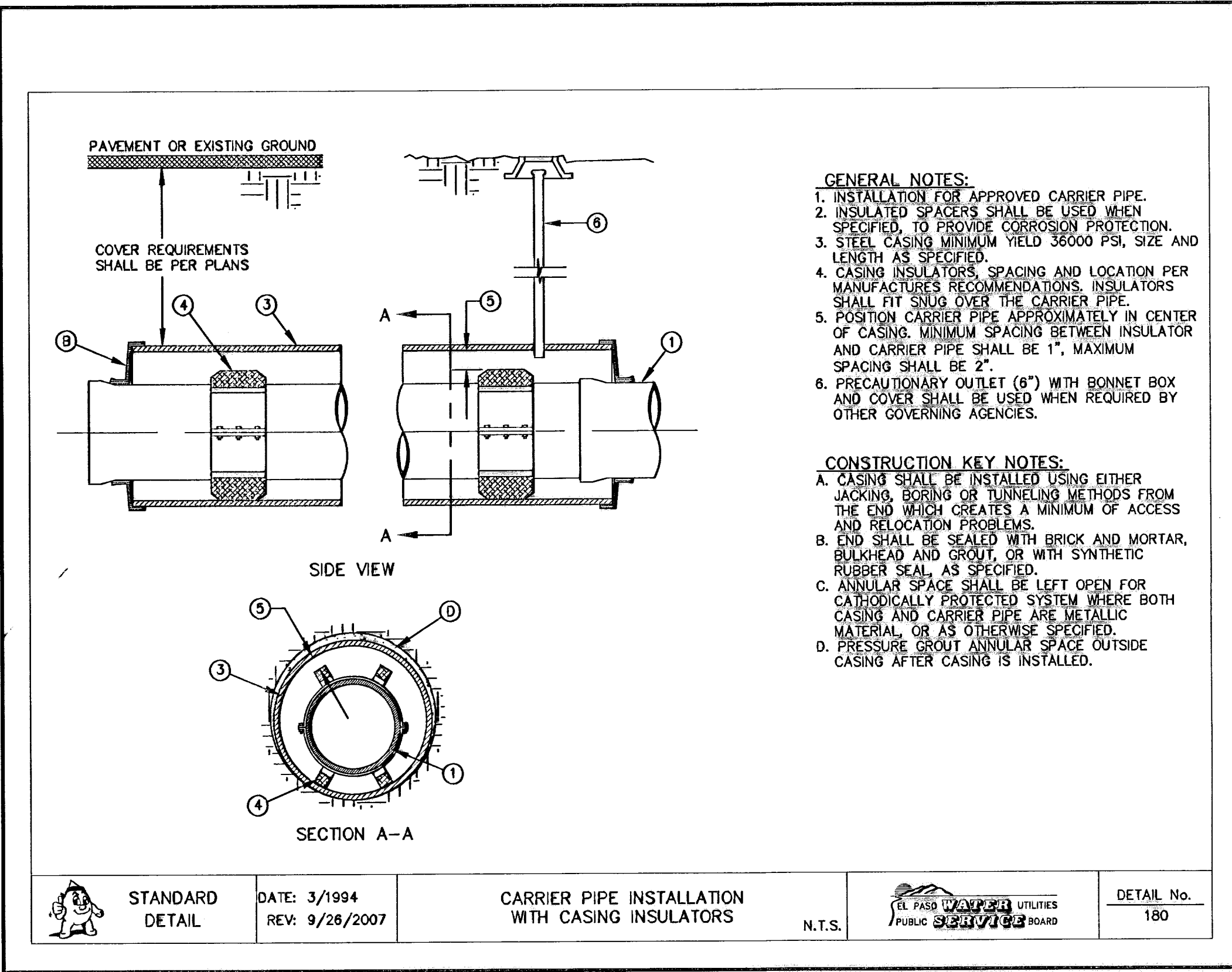
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N.T.S.



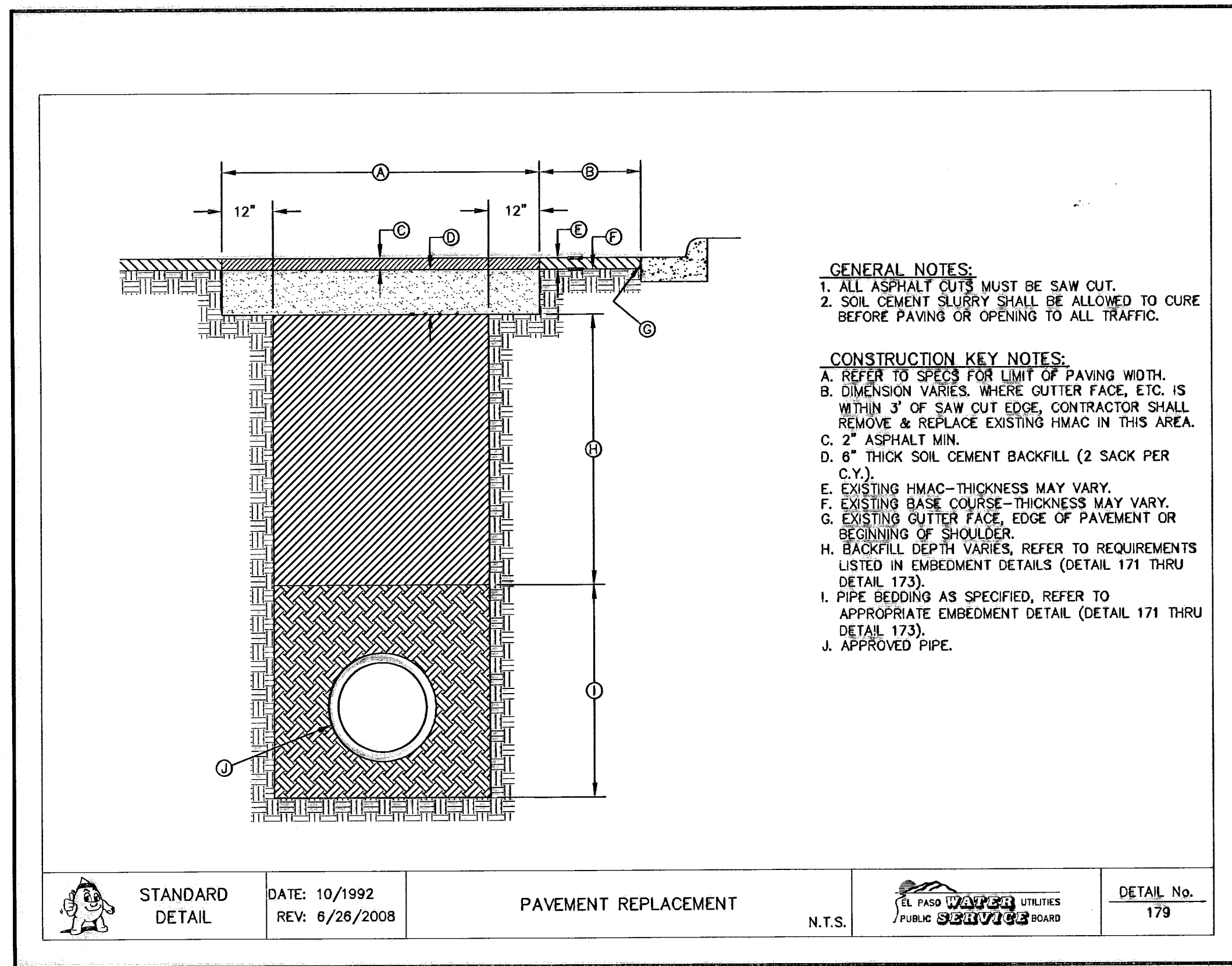
4 TYPICAL INVERT PLANS  
SCALE: N.T.S.



5 EMBEDMENT CLASS "A" FOR  
PRESSURE PIPE AND GRAVITY PIPE  
DRY CONDITIONS SCALE: N.T.S.



6 CARRIER PIPE INSTALLATION  
WITH CASING INSULATORS  
N.T.S.

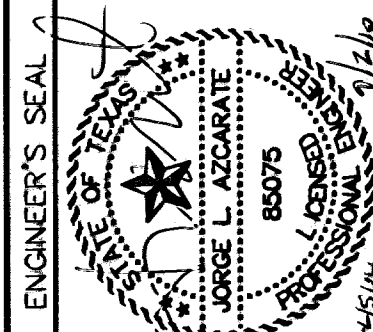


7 PAVEMENT REPLACEMENT  
N.T.S.

**RECORD DRAWINGS**  
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09/01/10

REFERENCES - BENCHMARKS  
CITY MONUMENT AT POINT OF CURVE  
CENTERLINE RICH BEEM BLVD. S08+33.31' E A  
DISTANCE OF 467.58 FEET FROM THE  
SOUTHERLY RIGHT OF WAY LINE OF MONTANA  
AVENUE CITY DATUM  
ELEVATION: .....4005.40  
DATE REVISIONS BY

**osa**  
GROUP  
engineers • architects • planners  
Casuar Center @ Transmountain  
1712 W. 10th Ave., Suite 100  
Denver, CO 80202 Tel: 303.733.8800  
www.osagroup.com

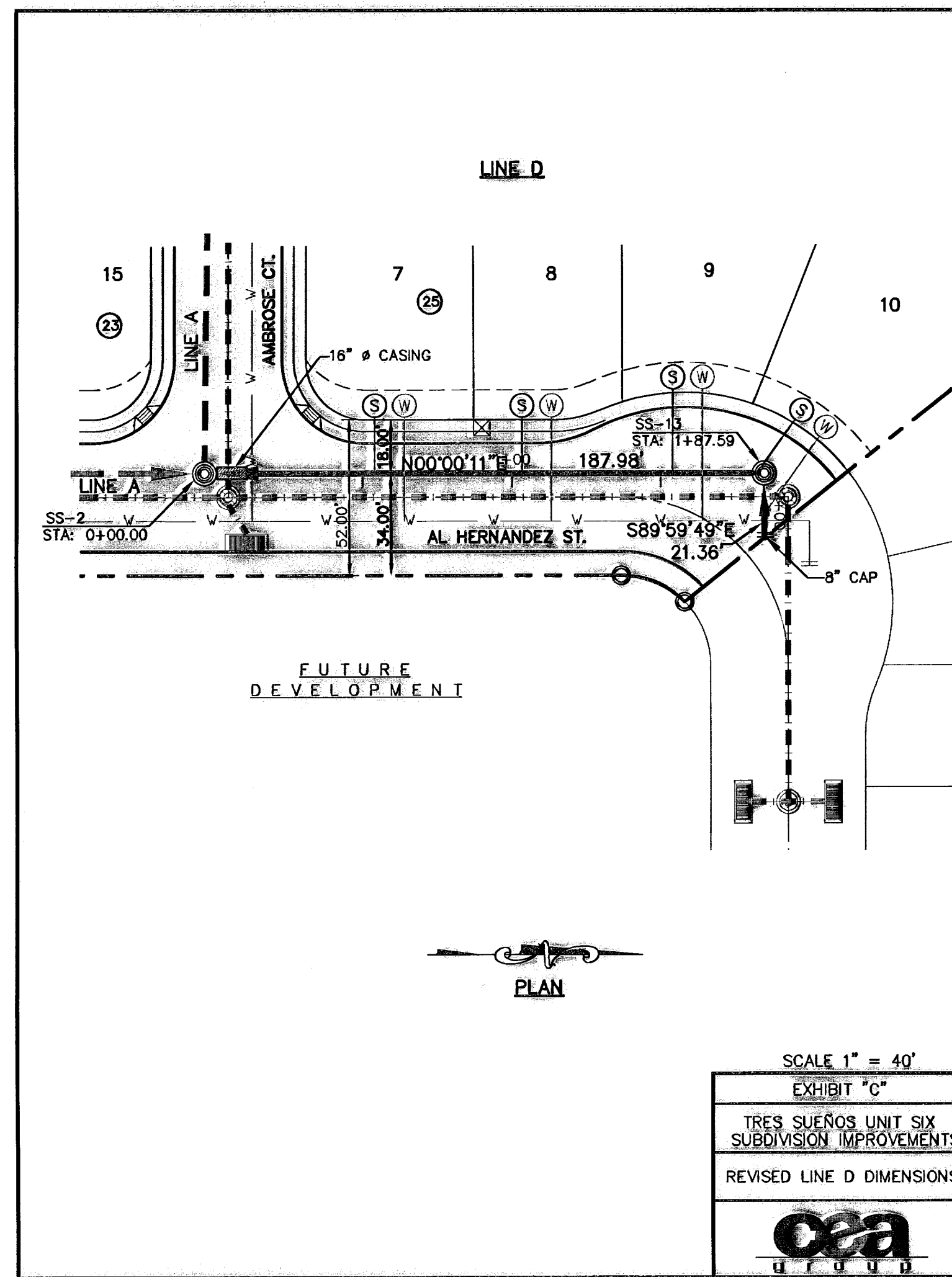
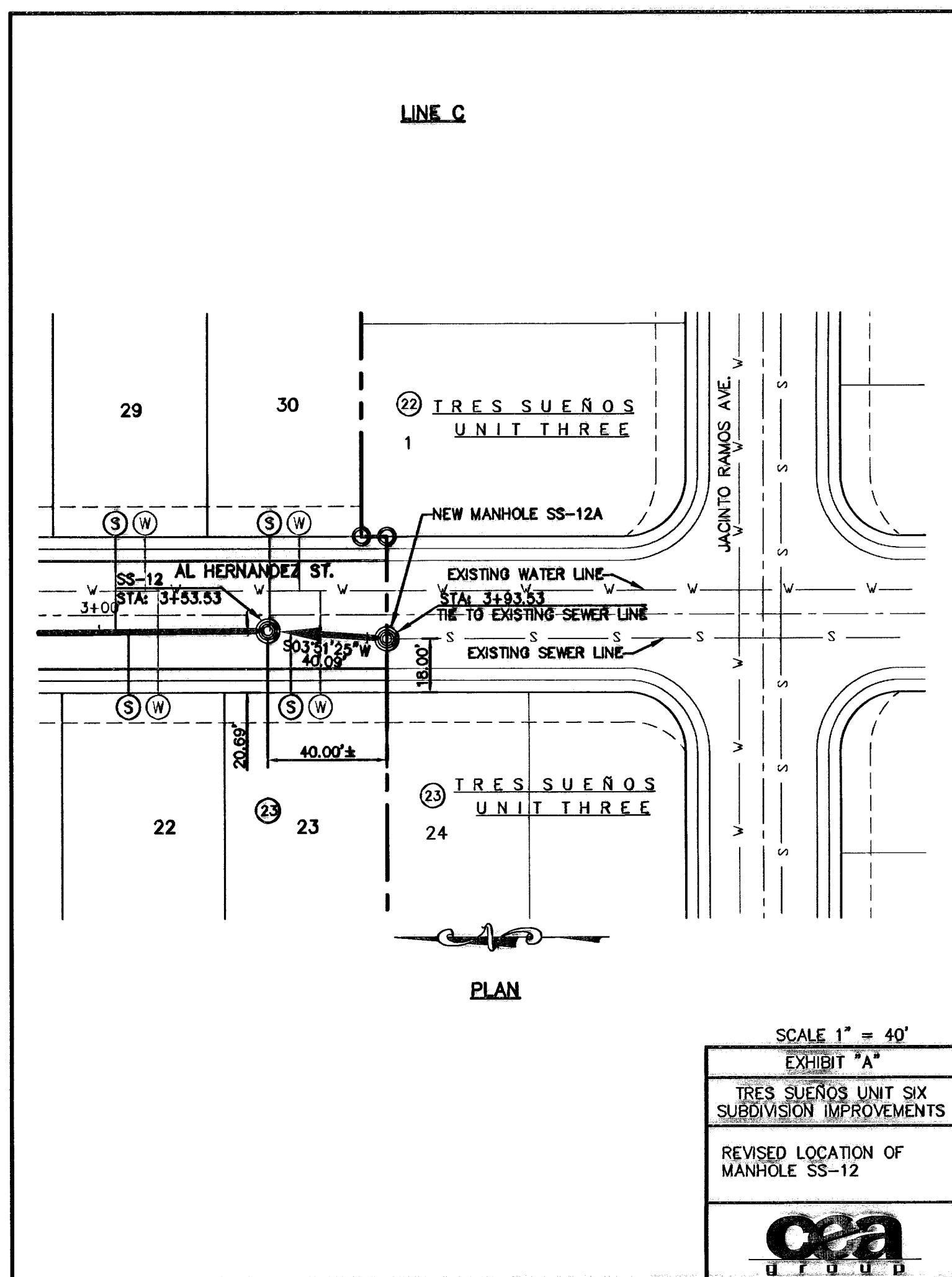
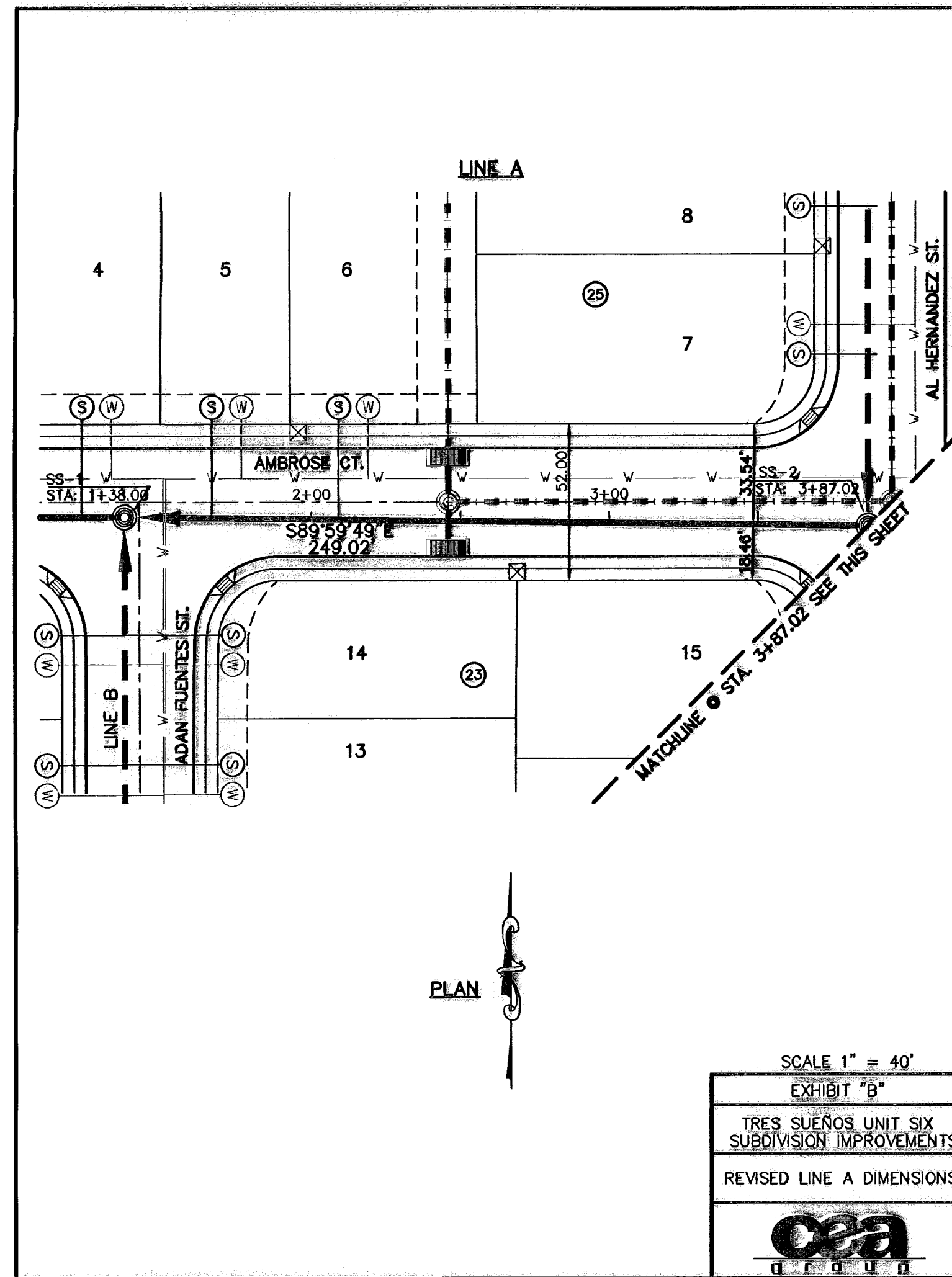
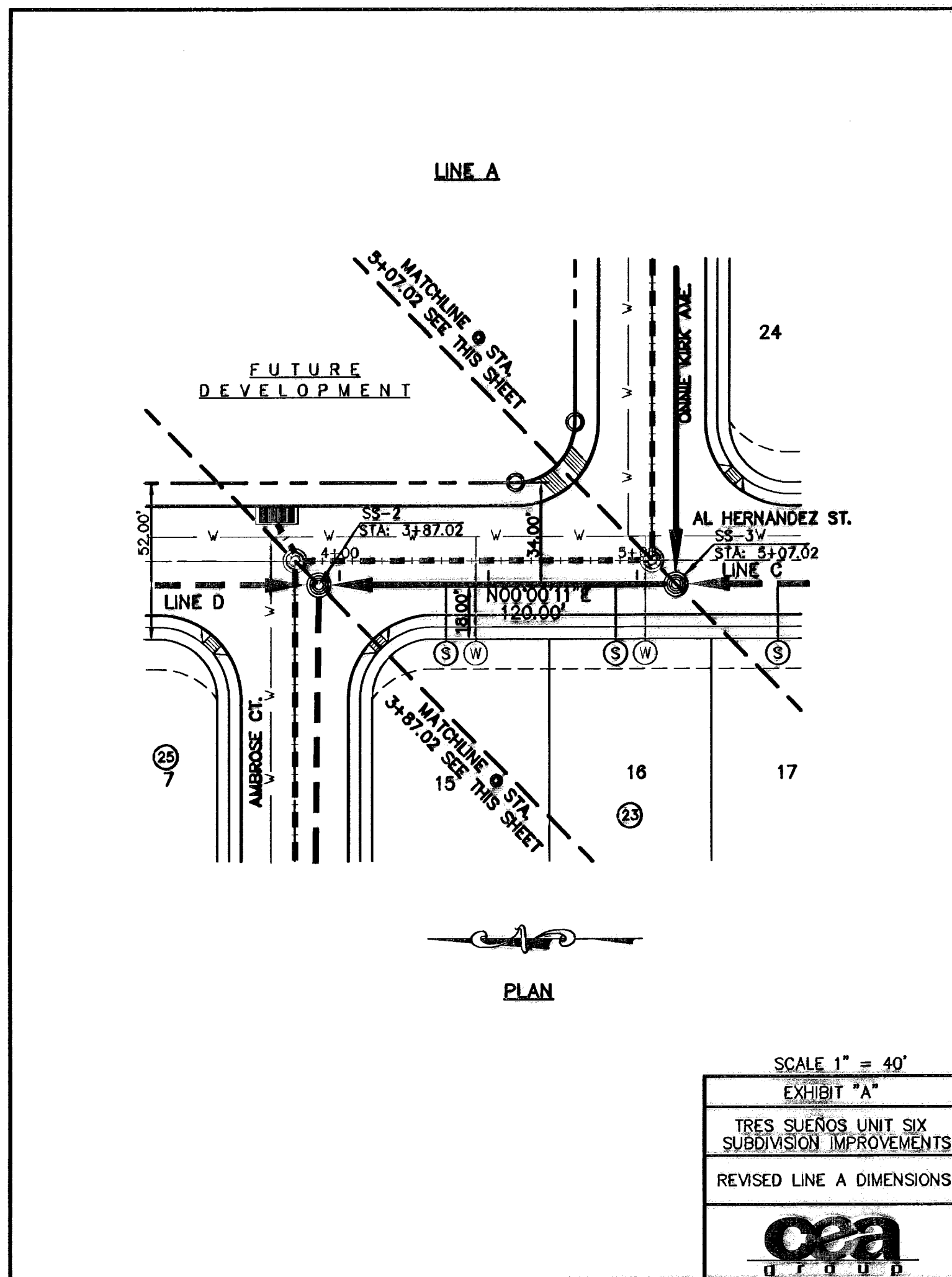


SCALE: N/A  
Horizontal: N/A  
Vertical: N/A  
Contour Interval: 2003  
DATE: MARCH 2003  
DESIGN BY: J.G.  
DRAWN BY: D.N.  
CHKD. BY: J.L.A.  
APPROV. BY: J.L.A.  
JOB No.: 2000-100 LD

PROJECT TITLE  
**TRES SUEÑOS UNIT SIX  
SUBDIVISION IMPROVEMENTS**

SHEET TITLE  
**SANITARY SEWER  
DETAILS  
(SHEET 3 OF 3)**

SHEET NO.  
**S-9**  
OF S-9



**UTILITY LOCATOR SERVICES**

EL PASO ELECTRIC COMPANY	(915) 543-3720
EL PASO ENERGY CORPORATION	(915) 458-5244
EL PASO WATER UTILITIES	(915) 594-5527
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PARAGON CABLE	(915) 772-1123
TEXAS GAS CO.	(915) 544-6300
SOUTHWESTERN BELL TELEPHONE	(800) 828-5127
AT&T	(800) 852-3788
U.S. SPRINT TELECOMM	(800) 521-0979

**WARNING!**  
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1-800-DIG-TESS  
1-800-344-8377

FOR FIELD LOCATING EXISTING UTILITIES

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09/01/10

REFERENCES - BENCHMARKS

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CENTERLINE RICH BEEM BLVD., S08°42'31" E A  
DISTANCE OF 467.58 FEET FROM THE  
SOUTHERLY RIGHT OF WAY LINE OF MONTANA  
AVENUE CITY DATUM.....4005.40

DATE	REVISIONS	BY

**oea**  
engineers • architects • planners

Castroville Center @ Transmountain  
4712 Woodrow Blvd., Ste. F El Paso, TX 79904  
Office 915.544.5232 Fax 915.544.5233 www.oegroup.net

ENGINEER'S SEAL

SCALE

Horizontal: \_\_\_\_\_

Vertical: \_\_\_\_\_

Contour Interval: \_\_\_\_\_

DATE: MARCH 2009

DESIGN BY: J.G.

DRAWN BY: D.J.N.

INSP. BY: J.L.A.

J.C. NO. 814

JOB NO. 2000-100.LD

PROJECT TITLE

**TRES SUEÑOS UNIT SIX  
SUBDIVISION IMPROVEMENTS**

SHEET TITLE

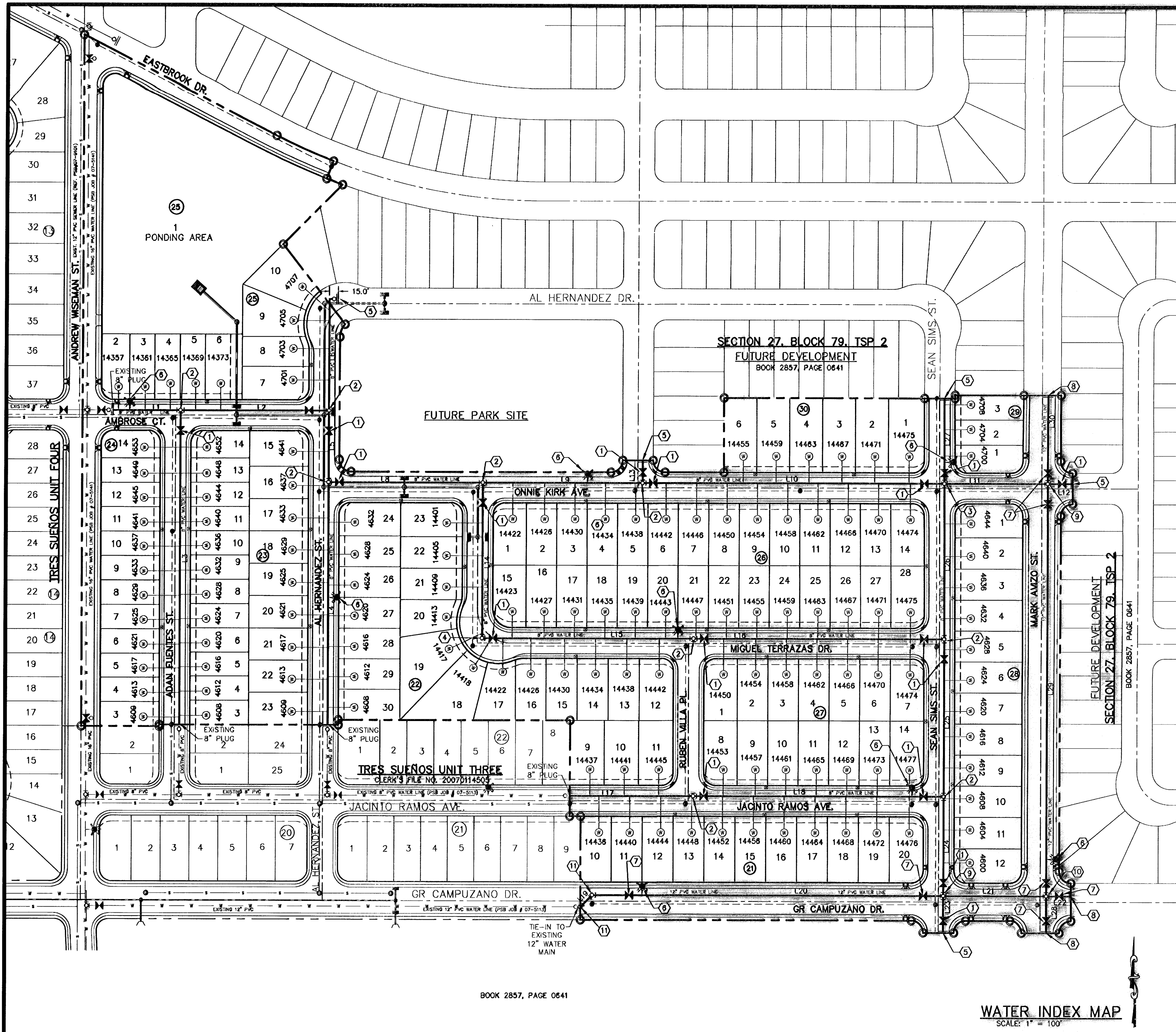
SANITARY SEWER EXHIBITS

SHEET NO.

SS

OF 1





BOOK 2857, PAGE 0641

**WATER INDEX MAP**  
SCALE: 1" = 100'

**RECORD DRAWINGS**  
09/01/10

LINE	BEARING	LENGTH
L1	S89°59'49"E	114.00'
L2	S89°59'49"E	252.00'
L3	N00°00'11"E	529.52'
L4	N00°00'11"E	469.52'
L5	N00°00'11"E	120.00'
L6	N00°00'11"E	188.78'
L7	S89°59'49"E	27.59'
L8	S89°59'49"E	252.00'
L9	S89°59'49"E	271.75'
L10	S89°59'49"E	513.61'
L11	S89°59'49"E	175.35'
L12	S89°59'49"E	42.00'
L13	N00°00'11"E	38.00'
L14	S00°00'11"W	282.00'
L15	S89°59'49"E	359.45'
L16	S89°59'49"E	425.98'
L17	S89°59'49"E	209.41'
L18	S89°59'49"E	426.00'
L19	N45°00'00"E	28.28'
L20	S89°59'49"E	586.95'
L21	S89°59'49"E	175.23'
L22	S89°59'49"E	42.00'
L23	N00°00'25"W	62.00'
L24	N00°00'25"W	158.00'
L25	N00°00'25"W	268.00'
L26	N00°00'25"W	282.00'
L27	N00°00'25"W	143.00'
L28	N00°00'11"E	62.00'
L29	N00°00'11"E	694.00'
L30	N00°00'11"E	148.45'

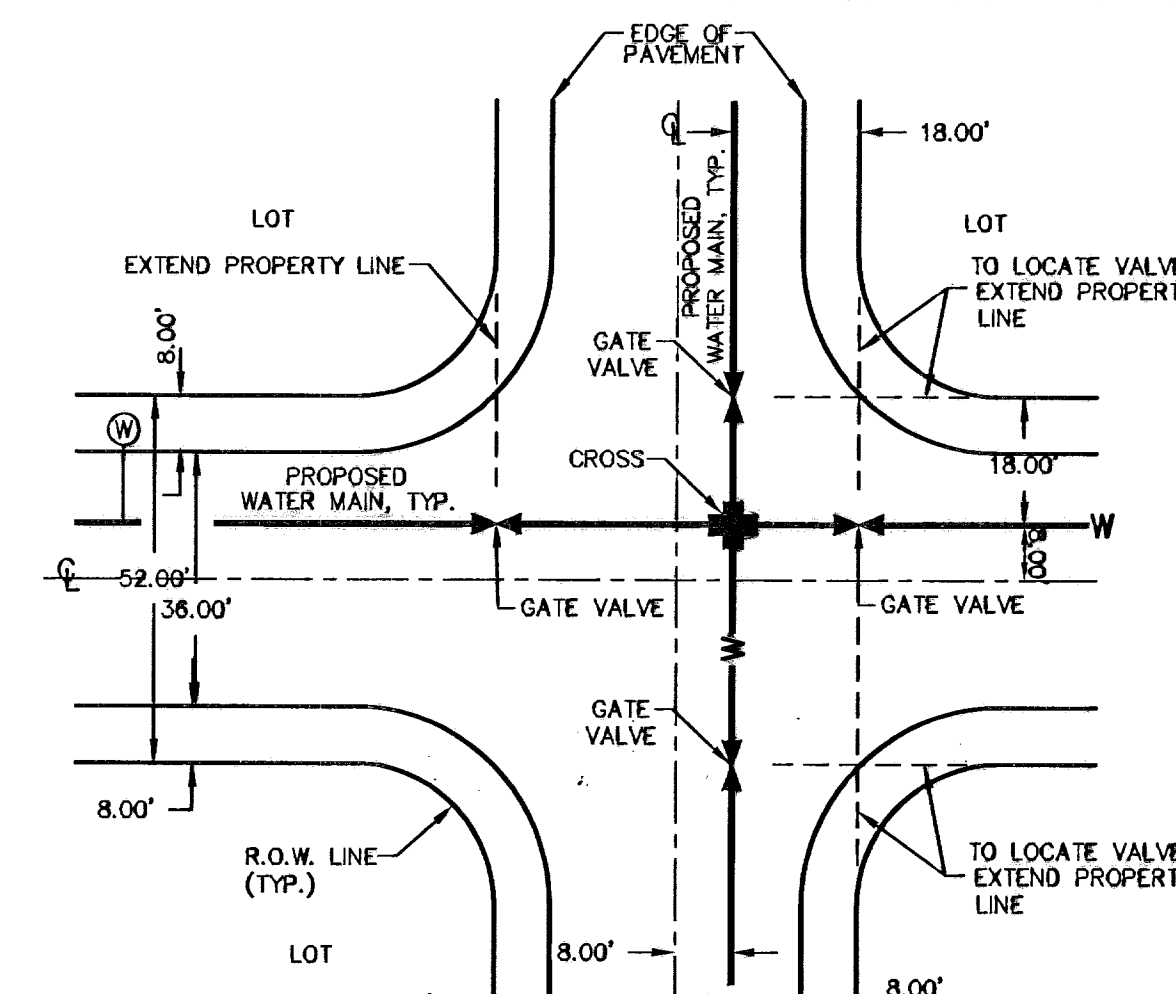
SYMBOL	DESCRIPTION
---	PROPERTY LINE
- - - -	SUBDIVISION BOUNDARY
---	STREET R.O.W. LINE
---	PROPOSED 8", 12", C-900 P.V.C. PIPE
---	PROPOSED 8", 12", C-900 P.V.C. PIPE ON ANOTHER SHEET (PLAN VIEW)
---	PROPOSED SANITARY SEWER
---	PROPOSED STORM SEWER
---	EXISTING SEWER LINE
---	EXISTING WATER LINE
---	PROPOSED SERVICE CONNECTION
---	PROPOSED FIRE HYDRANT, KENNEDY OR MUELLER MODEL
---	EXISTING FIRE HYDRANT
---	PROPOSED GATE VALVE
---	EXISTING GATE VALVE
---	PLUG
---	POINT OF TANGENCY

- NOTES:**
1. ALL THE TRES SUEÑOS UNIT SIX SANITARY SEWER AND WATER STRUCTURES SHALL BE BUILT CONCURRENTLY ACCORDING TO THE PLANS.
  2. ALL LOTS SHALL BE PROVIDED WITH ONE SERVICE CONNECTION TO BE INSTALLED AT THE LOCATION AS SHOWN ON THE SERVICE LOCATION DETAIL.
  3. ALL WATER LINES SHALL BE PVC C-900, CLASS 235.
  4. REFERENCE WATER DETAILS FOR TYPICAL VALVE AND WATER LOCATION AT STREET INTERSECTIONS.

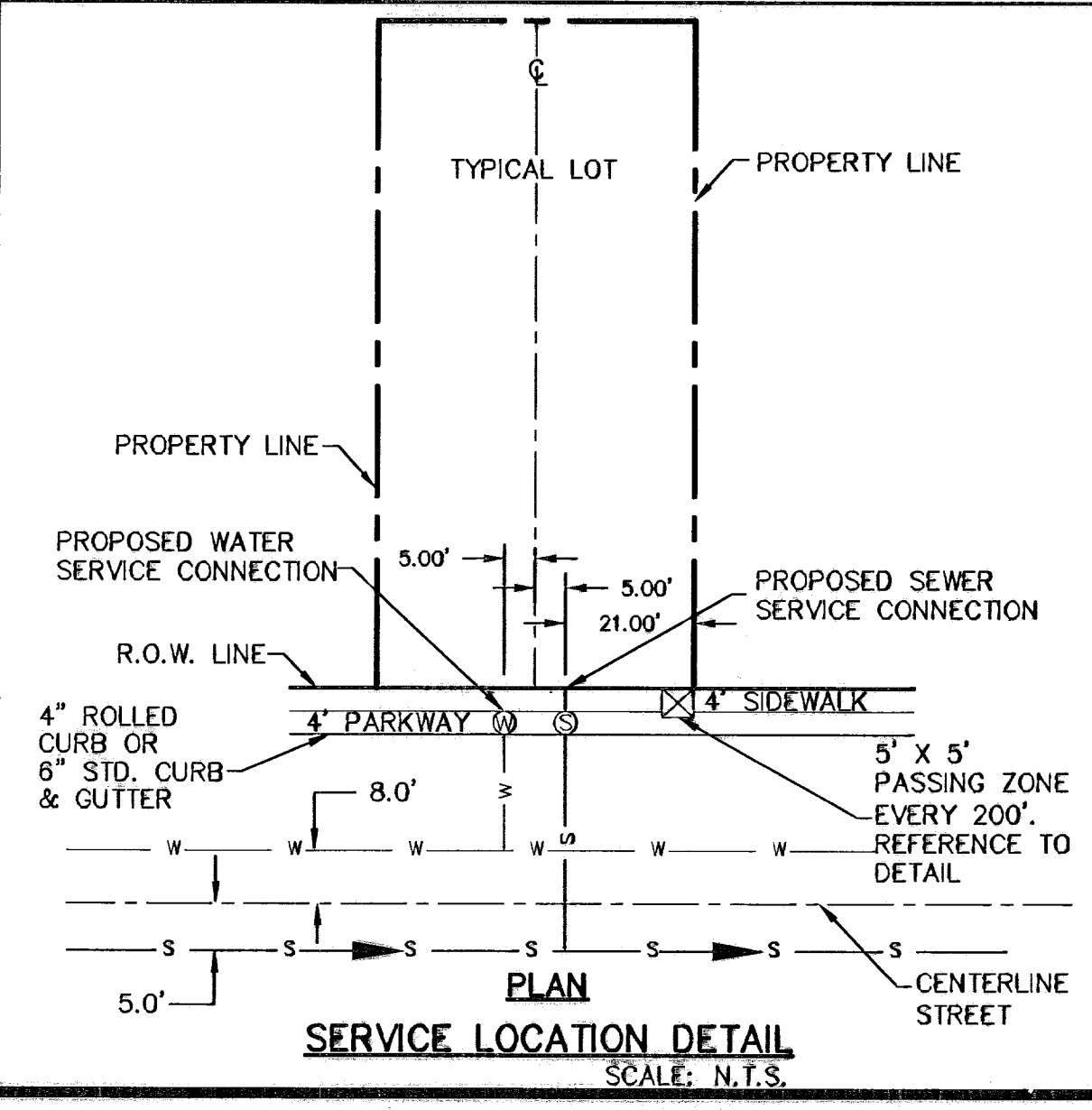
**LEGEND**

**SYMBOL DESCRIPTION**

---	PROPERTY LINE
- - - -	SUBDIVISION BOUNDARY
---	STREET R.O.W. LINE
---	PROPOSED 8", 12", C-900 P.V.C. PIPE
---	PROPOSED 8", 12", C-900 P.V.C. PIPE ON ANOTHER SHEET (PLAN VIEW)
---	PROPOSED SANITARY SEWER
---	PROPOSED STORM SEWER
---	EXISTING SEWER LINE
---	EXISTING WATER LINE
---	PROPOSED SERVICE CONNECTION
---	PROPOSED FIRE HYDRANT, KENNEDY OR MUELLER MODEL
---	EXISTING FIRE HYDRANT
---	PROPOSED GATE VALVE
---	EXISTING GATE VALVE
---	PLUG
---	POINT OF TANGENCY



**NOTE**  
SEE PLANS FOR SIZE.  
LOCATION OF WATER MAIN, VALVES AND LOTS TO BE SERVICED.  
**TYPICAL VALVE AND WATER LOCATION AT STREET INTERSECTIONS**  
SCALE: N.T.S.



**PLAN**  
**SERVICE LOCATION DETAIL**  
SCALE: N.T.S.

- GENERAL NOTES**
1. UNLESS OTHERWISE SHOWN ON THE DRAWINGS, THE PROPOSED WATER MAINS SHALL BE INSTALLED NO LESS THAN 10' AWAY FROM EXISTING SEWER LINE.
  2. THE INTENT OF THE OWNER IS TO HAVE THE WATER MAINS INSTALLED TO SUCH A DEPTH THAT THEY WILL HAVE AT LEAST 60" FROM INVERT OF PIPELINE TO PROPOSED ELEVATIONS AT ALL LOCATIONS. THE PIPELINES SHALL HAVE NO DIPS, SAGS OR HUMPS OR OTHER IRREGULARITIES IN VERTICAL ALIGNMENT. THE CONTRACTOR SHALL VERIFY THE LOCATION AND DEPTH OF ALL EXISTING UTILITIES PRIOR TO INSTALLING THE WATER PIPELINE SO THAT AN ACCEPTABLE PROFILE CAN BE ESTABLISHED PRIOR TO INSTALLATION OF THE PIPELINE.
  3. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO FIELD LOCATE ALL UNDERGROUND UTILITIES, SHOWN OR NOT SHOWN IN THE PLANS, AND COORDINATE HIS WORK WITH ALL UTILITY COMPANIES, EL PASO WATER UTILITIES, AND THE CITY OF EL PASO STREET DEPARTMENT PRIOR TO CONSTRUCTION. ALL EXISTING UTILITY DEPTHS ARE UNKNOWN. THE CONTRACTOR SHALL BE ULTIMATELY RESPONSIBLE FOR ACQUIRING FIELD DEPTHS OF ALL UTILITIES WITH THE PROJECT AREAS.
  4. TRENCH SAFETY REQUIREMENTS SHALL COMPLY WITH CURRENT OSHA REGULATIONS.
  5. AS-BUILT STATIONING, OFFSET FROM R.O.W. AND INVERT ELEVATIONS SHALL BE ACCURATELY RECORDED BY THE CONTRACTOR ON A CLEAN SET OF PLANS FOR EACH VALVE, FIRE HYDRANT, ELBOW, SERVICE CONNECTION AND/OR STUB-OUT, WITH RESPECT TO THE APPROPRIATE PROJECT CONTROL POINT.
  6. EL PASO WATER UTILITIES AND THE CITY OF EL PASO MUST BE NOTIFIED 48 HOURS PRIOR TO COMMENCING ANY WORK IN AREAS WITHIN THEIR JURISDICTION. A COPY OF ALL FIELD SOIL DENSITY TESTS WITHIN THEIR RESPECTIVE R.O.W. SHALL BE FORWARDED TO THE DEVELOPER'S ENGINEER AND THE DEVELOPER BY THE CONTRACTOR.
  7. EXISTING STREETS, DRIVEWAYS AND ALL OTHER MISCELLANEOUS STRUCTURES DAMAGE OR REMOVED BY CONSTRUCTION ACTIVITIES SHALL BE RESTORED TO ORIGINAL OR BETTER THAN ORIGINAL CONDITION.
  8. TRAFFIC CONTROL SHALL BE IN PLACE PRIOR TO INITIATING WORK.
  9. ALL WATER AND SEWER UTILITY WORK, INCLUDING TIE-INS SHALL BE CLOSELY COORDINATED WITH EL PASO WATER UTILITIES FIELD ENGINEERING AT LEAST 48 HOURS PRIOR TO COMMENCING ANY UTILITY WORK.
  10. CONTRACTOR SHALL PROVIDE THE REQUIRED COUPLINGS, ELBOWS AND NECESSARY PIPING APPURTENANCES FOR A COMPLETE AND OPERATIONAL WATER SYSTEM.
  11. ALL NEW VALVES SHALL BE ALIGNED PERPENDICULAR TO PROPERTY LINES.

**GENERAL UTILITIES:**  
TEXAS EXCAVATION SAFETY SERVICE  
11684 GREENVILLE AVENUE  
DALLAS, TX 75243  
(800) 344-8377

**ENGINEER:**  
CEA GROUP  
4712 WOODROW BEAN, STE. F.  
EL PASO, TX 79924  
(915) 544-5232  
MR. JORGE L. AZCARATE, P.E.

**FIBER OPTICS:**  
U.S. SPRINT  
151 N. BOONE ST.  
EL PASO, TX 79905  
(915) 534-7910  
MR. RICK DERAGISCH

**FIBER OPTICS:**  
MOI TELECOMMUNICATIONS CORP.  
4045 DONIPHAN PARK CIRCLE  
EL PASO, TX 79922  
(915) 542-2770 EXT. 201  
MR. DANIEL HERNANDEZ

**WATER & SEWER:**  
EL PASO WATER UTILITIES  
1154 HAWKINS BLVD #1  
EL PASO, TX 79925  
(915) 594-5500  
MR. FELIPE LOPEZ, P.E.

**ELECTRIC:**  
EL PASO ELECTRIC CO.  
501 W. SAN ANTONIO ST.  
EL PASO, TX 79902  
(915) 543-2076  
MR. FRANK VIGEL (DISTRIBUTION)

**EL PASO STREETS**  
EL PASO STREETS DEPARTMENT  
7969 SAN PAULO DR.  
EL PASO, TX 79907  
(915) 821-8750  
MR. DARYL COLE

**CABLE TELEVISION:**  
TIME WARNER COMMUNICATIONS  
7010 AIRPORT ROAD  
EL PASO, TX 79906  
(915) 772-1123  
MR. JOHN WARES

**TELEPHONE:**  
SBC  
11200 PELICANO  
EL PASO, TX 79935  
(915) 595-5151  
MR. TIM BROWN

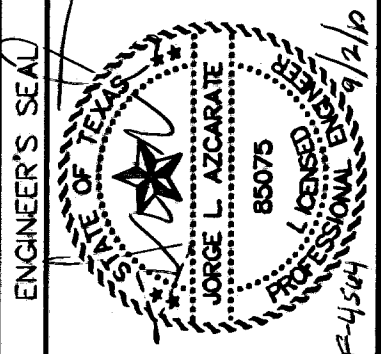
**FIBER OPTICS:**  
AT&T  
P.O. BOX 1650  
EL PASO, TX 79949  
(800) 852-3788  
MS. DARLENE NORIS

**RESIDENTIAL GAS LINES:**  
TEXAS GAS SERVICE  
4700 ROLLARD ST.  
EL PASO, TX 79930  
(915) 680-7218  
MR. ALEX LIMON

**WARNING!**  
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CALL  
1-800-DIG-TESS  
1-800-344-8377  
FOR FIELD LOCATING EXISTING UTILITIES

REFERENCES - BENCHMARKS  
CITY MONUMENT AT POINT OF CURVE  
CENTERLINE RICH BEEM BLVD., S08°43'31" E A  
DISTANCE OF 457.58 FEET FROM THE  
CITY MONUMENT TO THE POINT OF CURVE  
ELEVATION CITY DATUM .....4005.40  
DATE  
BY

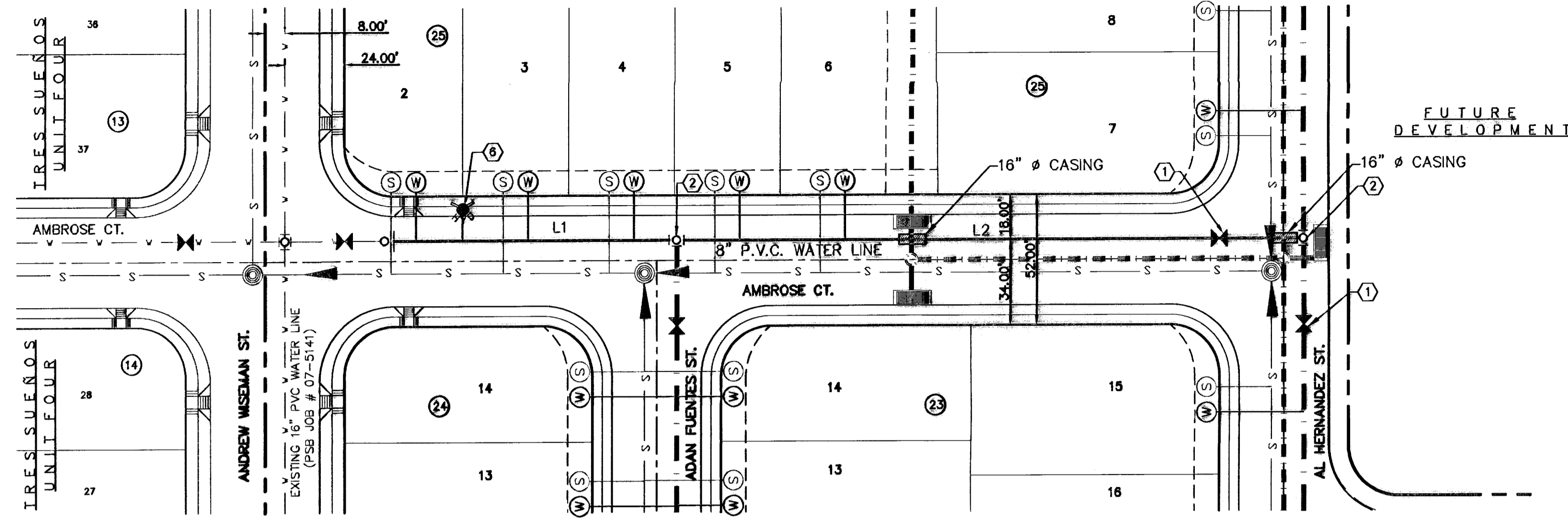
**osa**  
engineers • architects • planners  
Casuar Center @ Transmountain  
4712 Woodrow Bean, Ste. F El Paso, TX 79904  
Phone: 915.544.5232 Fax: 915.544.5233 www.osaengineer.com



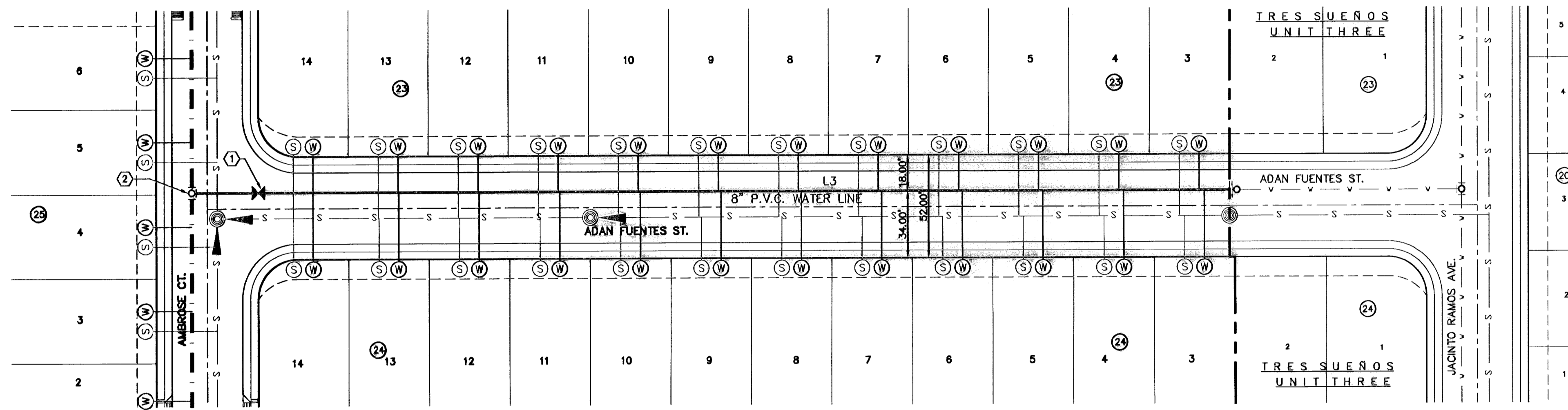
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DATE: MARCH 2009  
DESIGN BY: J.C.  
DRAWN BY: D.N.  
CHKD. BY: J.L.A.  
APPRO. BY: J.L.A.  
JOB NO.: 2000-100-1D  
F-454

**TRES SUEÑOS UNIT SIX**  
**SUBDIVISION IMPROVEMENTS**

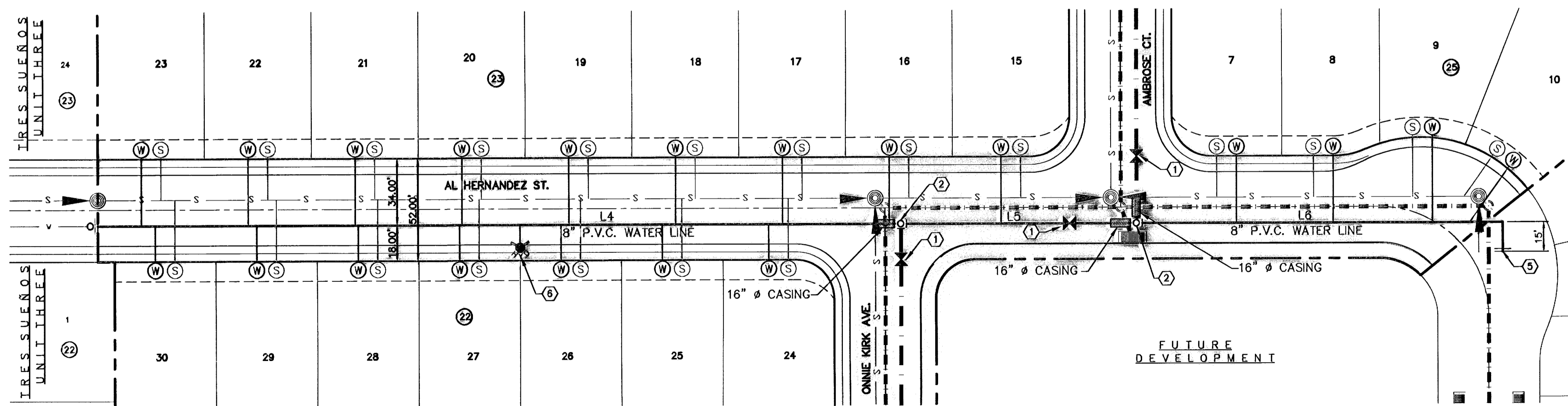
SHEET TITLE  
**WATER INDEX**  
SHEET NO.  
**W-1**  
OF W-9



PLAN



PLAN



PLAN

**UTILITY LOCATOR SERVICES**

EL PASO ELECTRIC COMPANY	(915) 543-3720
EL PASO ENERGY CORPORATION	(915) 498-5244
EL PASO WATER UTILITIES	(915) 594-5527
MCI SURVEILLANCE	(800) MCI-WORK
PARAGON CABLE	(915) 772-1123
TEXAS GAS CO.	(915) 544-8300
SOUTHWESTERN BELL TELEPHONE	(800) 828-5127
AT&T	(800) 852-3788
U.S. SPRINT TELECOMM	(800) 521-0579

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**1-800-DIG-TESS**  
**1-800-344-8377**

FOR FIELD LOCATING EXISTING UTILITIES

**RECORD DRAWINGS**

THESE RECORD DOCUMENTS HAVE BEEN PREPARED BASED ON THE INFORMATION PROVIDED BY OTHERS. OSA GROUP HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION AND SHALL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS THAT MAY BE INCORPORATED AS A RESULT OF ERRONEOUS INFORMATION PROVIDED BY OTHERS.

09/01/10

- LEGEND:**
- PROPOSED STORM SEWER LINE
  - PROPOSED WATER LINE
  - PROPOSED WATER LINE IN ANOTHER STREET
  - PROPOSED WASTE WATER FLOW
  - PROPOSED 5' PASSING LANE
  - ⊙ PROPOSED WATER SERVICE
  - ⊙ PROPOSED SEWER SERVICE
  - ★ PROPOSED FIRE HYDRANT, KENNEDY OR MUELLER MODEL
  - ⊗ PROPOSED GATE VALVE
  - ▨ PROPOSED 10 FT. CASING CENTERED AT STORM SEWER CROSSING (CASING SHALL COMPLY WITH EPWU STANDARDS)

**WATER KEYED NOTES**

①	8" $\phi$ GATE VALVE
②	8" X 8" X 8" TEE
③	8" X 8" X 8" CROSS
④	8" BEND
⑤	8" PLUG
⑥	FIRE HYDRANT
⑦	12" $\phi$ GATE VALVE
⑧	12" PLUG
⑨	8" X 12" CROSS
⑩	12" X 12" CROSS
⑪	12" BEND

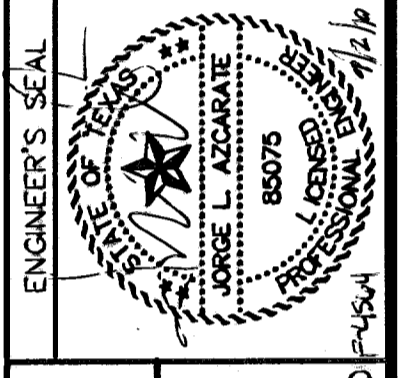
REFERENCES - BENCHMARKS

CITY MONUMENT AT POINT OF CURVE  
 CENTERLINE RICH BEEM BLVD., S08+42.31' E A  
 DISTANCE OF 467.58 FEET FROM THE  
 CENTERLINE OF WAY LINE OF MONTANA  
 AVENUE, CITY DATUM, 4005.40

DATE	REVISIONS	BY

**osa**  
**group**  
 engineers • architects • planners

Cashner Center @ Transmountain  
 4712 Woodrow Bean, Ste. F El Paso, TX 79804  
 Office: 915.541.5222 Fax: 915.541.5223 www.osagroup.net



SCALE: 1"=40'  
 Horizontal: 1"=5'  
 Vertical: 1"=5'

DATE: MARCH 2009  
 DESIGN BY: J.G.  
 DRAWN BY: D.N.  
 CHECKED BY: J.L.A.  
 APPROVED BY: J.L.A.  
 JOB No. 2000-100 LD P-454

PROJECT TITLE

**TRES SUEÑOS UNIT SIX  
 SUBDIVISION IMPROVEMENTS**

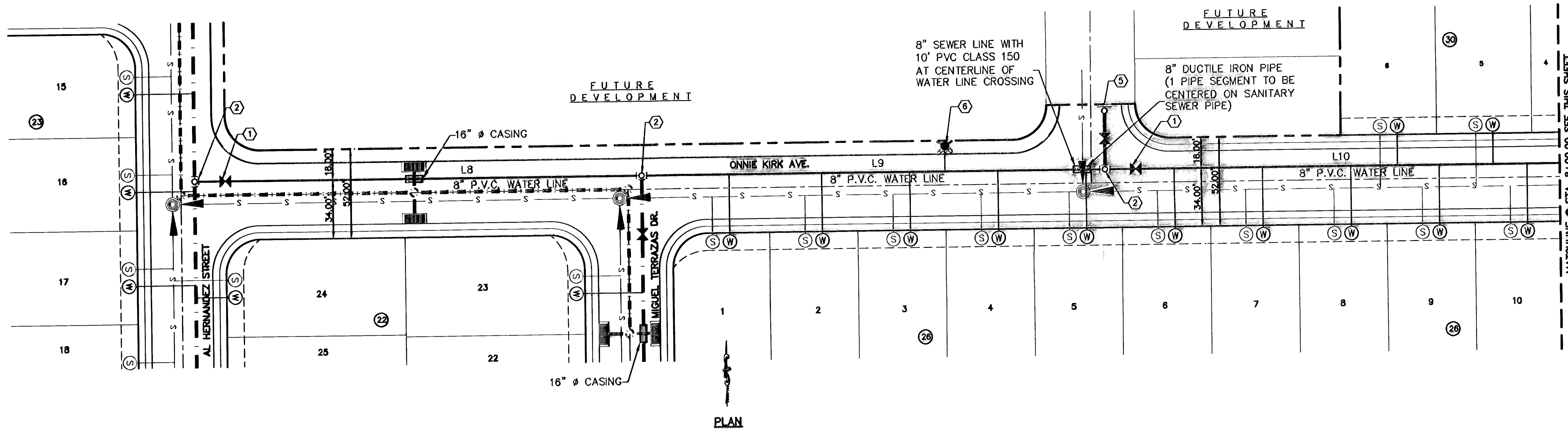
SHEET TITLE

**WATER LINE IN  
 AMBROSE CT.,  
 ADAN FUENTES ST.,  
 AL HERNANDEZ ST.**

SHEET NO.

**W-2**

OF W-9



PLAN

**UTILITY LOCATOR SERVICES**

EL PASO ELECTRIC COMPANY	(915) 543-5720
EL PASO ENERGY CORPORATION	(915) 496-5244
EL PASO WATER UTILITIES	(915) 594-5527
MCI SURVEILLANCE	(800) MCI-WORK
PARAGON CABLE	(915) 772-1123
TEXAS GAS CO.	(915) 544-6300
SOUTHWESTERN BELL TELEPHONE	(800) 828-5127
AT&T	(800) 852-3786
U.S. SPRINT TELECOMM	(800) 521-0579

**WARNING I BEFORE YOU DIG**

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1-800-344-8377

FOR FIELD LOCATING EXISTING UTILITIES

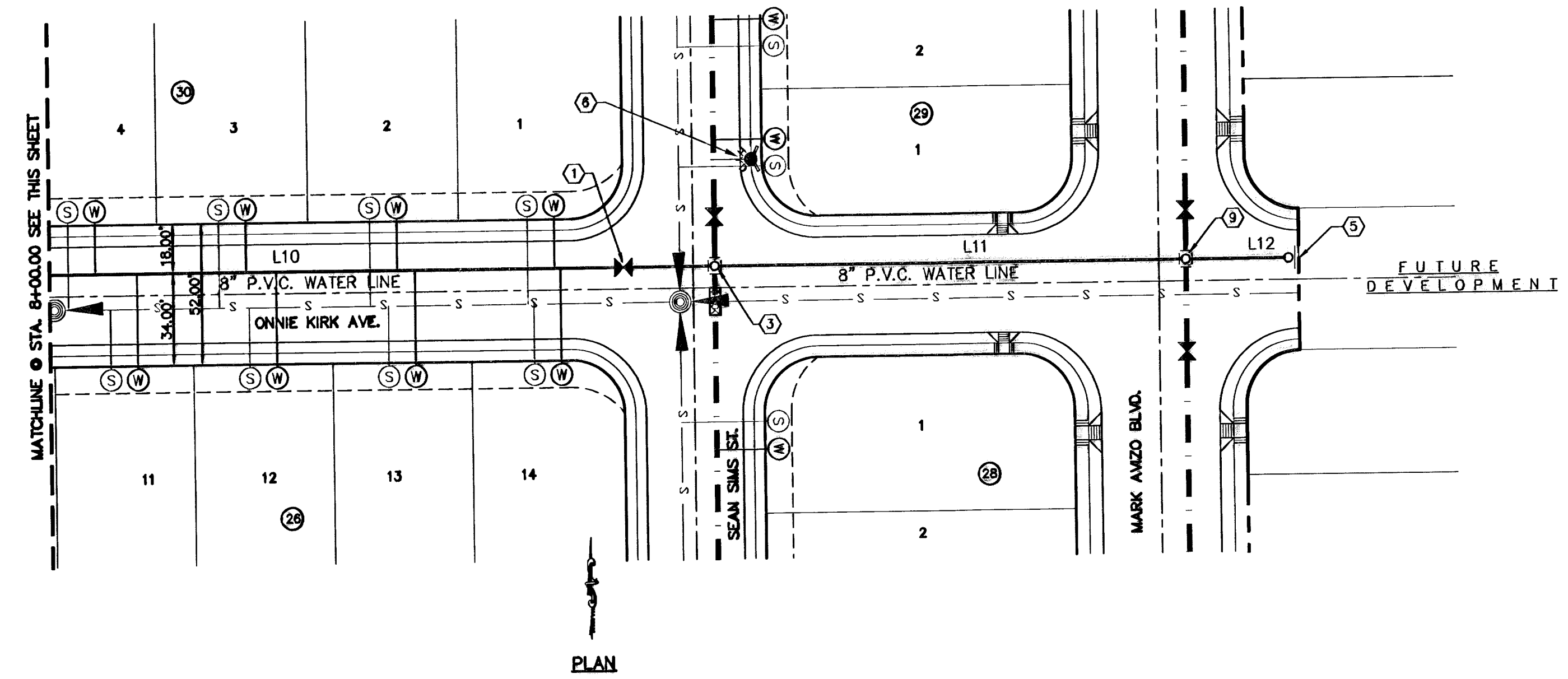
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09/01/10

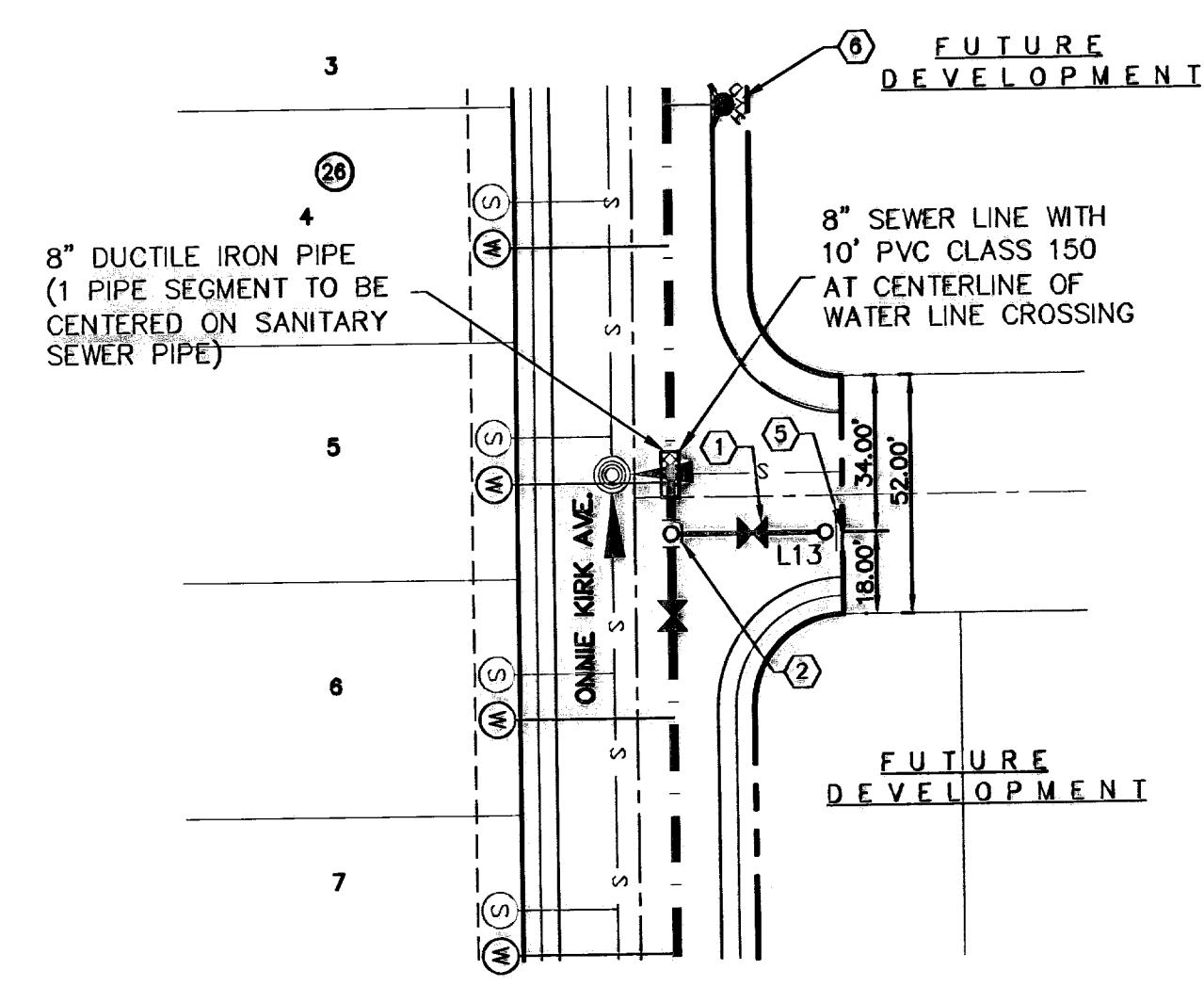
- LEGEND:**
- PROPOSED STORM SEWER LINE
  - PROPOSED WATER LINE
  - PROPOSED WATER LINE IN ANOTHER STREET
  - PROPOSED WASTE WATER FLOW
  - PROPOSED 5' PASSING LANE
  - PROPOSED WATER SERVICE
  - PROPOSED SEWER SERVICE
  - ★ PROPOSED FIRE HYDRANT, KENNEDY OR MUELLER MODEL
  - ✕ PROPOSED GATE VALVE
  - ▨ PROPOSED 10 FT. CASING CENTERED AT STORM SEWER CROSSING (CASING SHALL COMPLY WITH EPWU STANDARDS)
  - ▩ PROPOSED DUCTILE IRON PIPE (REFERENCE PLAN FOR ACTUAL SIZE)

**WATER KEYED NOTES**

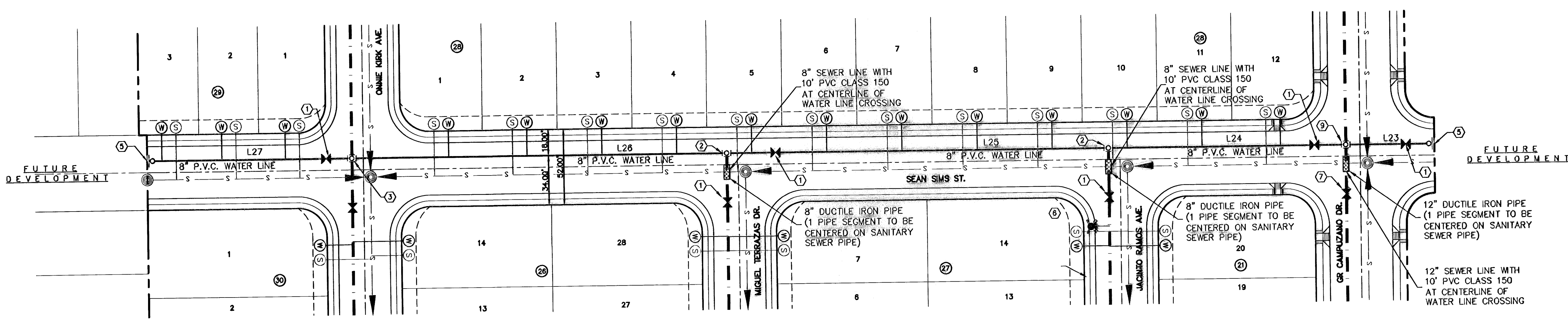
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②	8" X 8" X 8" TEE
③	8" X 8" X 8" CROSS
④	8" BEND
⑤	8" PLUG
⑥	FIRE HYDRANT
⑦	12" Ø GATE VALVE
⑧	12" PLUG
⑨	8" X 12" CROSS
⑩	12" X 12" CROSS
⑪	12" BEND



PLAN



PLAN



PLAN

REFERENCES - BENCHMARKS

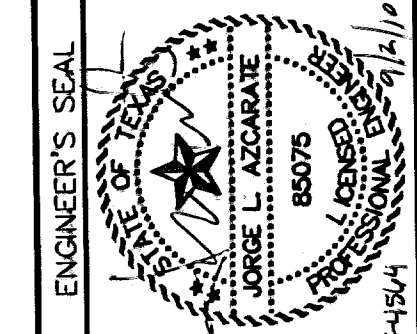
CITY MONUMENT AT POINT OF CURVE  
CENTERLINE RICH BEEM BLVD., S08+23.31' E A  
DISTANCE OF 487.58 FEET FROM THE  
SOUTHERLY RIGHT OF WAY LINE OF MONTANA  
AVENUE CITY DATUM  
ELEVATION.....4005.40

DATE \_\_\_\_\_ REVISIONS \_\_\_\_\_ BY \_\_\_\_\_

**osa**

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712 Westwood  
Orem, UT 84058  
Phone: 801-224-1222 Fax: 801-224-1223 www.osa.net



SCALE: 1"=40'

Horizontal: 1"=50'

Vertical: 1"=5'

Contour Interval: \_\_\_\_\_

DATE: MARCH 2009

DESIGN BY: D.N.

DRAWN BY: J.L.A.

CHKD. BY: J.L.A.

APP'D. BY: J.L.A.

JOB No. 2000-100 LD F-15/4

PROJECT TITLE

**TRES SUEÑOS UNIT SIX  
SUBDIVISION IMPROVEMENTS**

SHEET TITLE

WATER LINE IN  
ONNIE KIRK AVE.,  
SEAN SIMS ST.

SHEET NO.

**W-3**

OF W-9

UTILITY LOCATOR SERVICES	
EL PASO ELECTRIC COMPANY	(915) 543-5720
EL PASO ENERGY CORPORATION	(915) 496-5244
EL PASO WATER UTILITIES	(915) 594-5527
MOI SURVEILLANCE	(800) MOI-WORK
PARAGON CABLE	(915) 772-1123
TEXAS GAS CO.	(915) 544-6300
SOUTHWESTERN BELL TELEPHONE	(800) 828-5127
AT&T	(800) 852-3786
U.S. SPRINT TELECOMM	(800) 521-0579

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**1-800-344-8377**

FOR FIELD LOCATING EXISTING UTILITIES

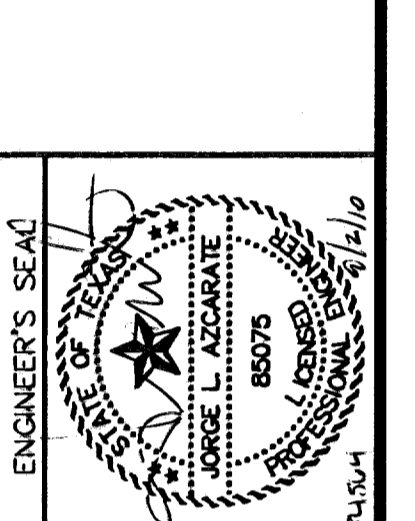
**RECORD DRAWINGS**

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DATE	REVISIONS	BY

REFERENCES - BENCHMARKS  
CITY MONUMENT AT POINT OF CURVE  
CENTERLINE RICH BEEM BELVUE, S08°43'31" E 4  
MOUNTAIN VIEW MONUMENT AT THE  
SOUTHERLY RIGHT OF WAY LINE OF MONTANA  
AVENUE CITY DATUM.....4005.40  
ELEVATION.....



SCALE  
Horizontal: 1"=40'  
Vertical: 1"=5'  
Contour Interval:  

DATE: MARCH 2009  
DESIGN BY: J.G.  
DRAWN BY: D.N.  
CHKD. BY: J.L.A.  
APPVD. BY: J.L.A.  
JOB No. 2000-100 LD

PROJECT TITLE

**TRES SUEÑOS UNIT SIX  
SUBDIVISION IMPROVEMENTS**

SHEET TITLE

WATER LINE IN  
MIGUEL TERRAZAS DR.

SHEET NO.

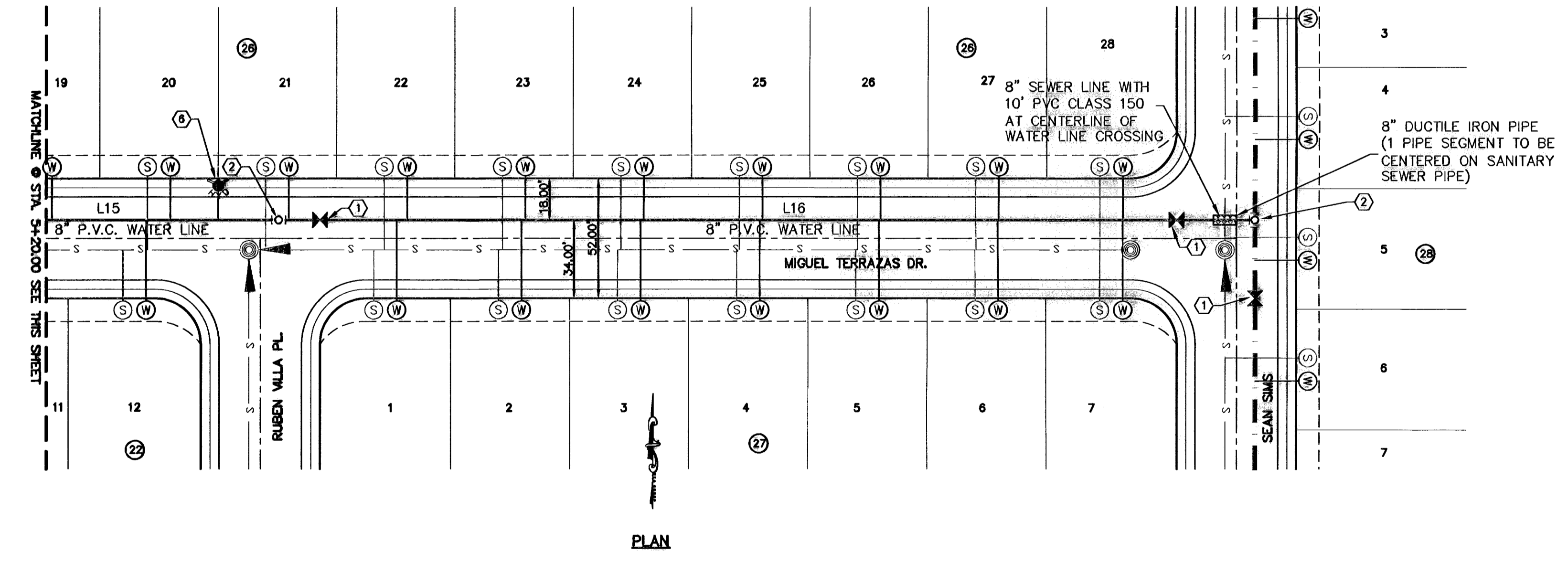
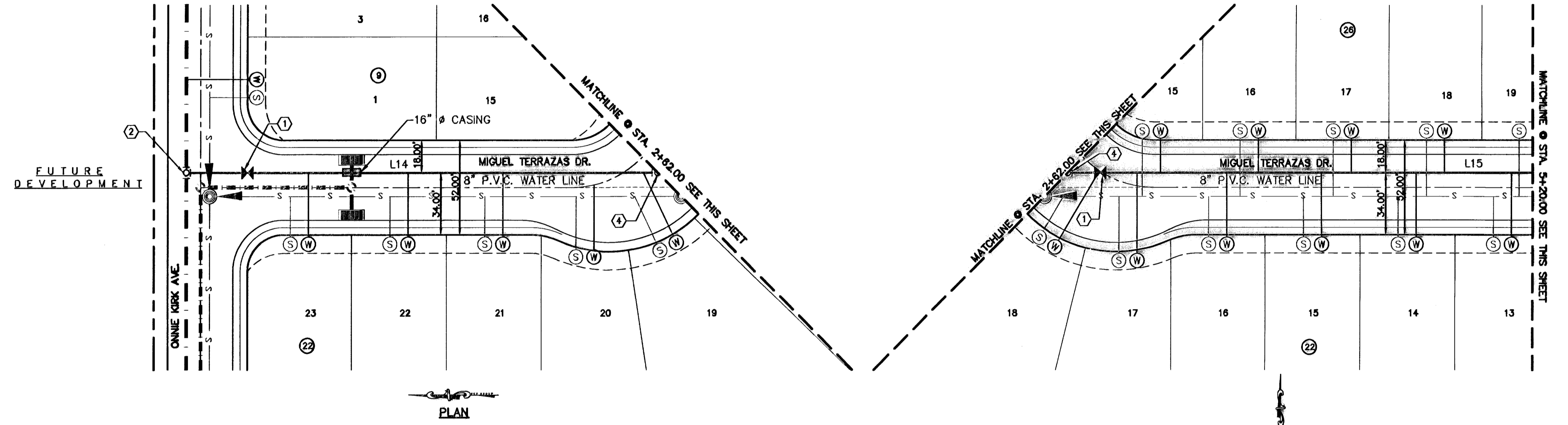
**W-4**

OF W-9

- LEGEND:**
- PROPOSED STORM SEWER LINE
  - PROPOSED WATER LINE
  - PROPOSED WATER LINE IN ANOTHER STREET
  - PROPOSED WASTE WATER FLOW
  - ⊗ PROPOSED 5" PASSING LANE
  - ⊙ PROPOSED WATER SERVICE
  - ⊙ PROPOSED SEWER SERVICE
  - ⊗ PROPOSED FIRE HYDRANT, KENNEDY OR MUELLER MODEL
  - ⊗ PROPOSED GATE VALVE
  - ▨ PROPOSED 10 FT. CASING CENTERED AT STORM SEWER CROSSING (CASING SHALL COMPLY WITH EPWJ STANDARDS)
  - ▩ PROPOSED DUCTILE IRON PIPE (REFERENCE PLAN FOR ACTUAL SIZE)

**WATER KEYED NOTES**

①	8" Ø GATE VALVE
②	8" X 8" X 8" TEE
③	8" X 8" X 8" CROSS
④	8" BEND
⑤	8" PLUG
⑥	FIRE HYDRANT
⑦	12" Ø GATE VALVE
⑧	12" PLUG
⑨	8" X 12" CROSS
⑩	12" X 12" CROSS
⑪	12" BEND



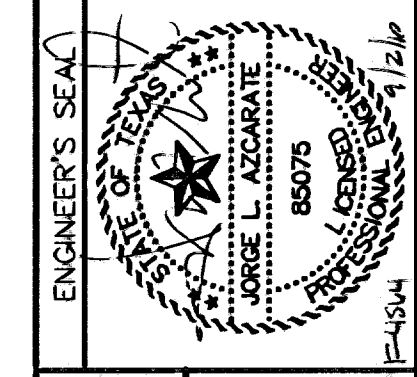
UTILITY LOCATOR SERVICES	
EL PASO ELECTRIC COMPANY	(915) 543-5720
EL PASO ENERGY CORPORATION	(915) 496-5244
EL PASO WATER UTILITIES	(915) 594-5527
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AT&T	(800) 852-3786
U.S. SPRINT TELECOMM	(800) 521-0579

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**1-800-344-8377**  
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 09/01/10

REFERENCES - BENCHMARKS  
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 CENTERLINE RICH BEEM BLVD., 508+23.31' E A  
 SOUTH 100 FEET FROM THE  
 SOUTHERLY RIGHT OF WAY LINE OF MONTANA  
 AVENUE CITY DATUM  
 ELEVATION:.....4005.40  
 DATE REVISIONS BY

**O&A GROUP**  
 engineers • architects • planners  
 Casuarina Center @ Transmountain  
 4712 Woodrow Blvd., Ste. F, El Paso, TX 79904  
 (915) 764-4222 Fax: (915) 764-4223 www.oandagroup.com



SCALE: 1"=50'  
 Horizontal: 1"=50'  
 Vertical: 1"=5'  
 Contour Interval: 1'  
 DATE: MARCH 2009  
 DESIGN BY: J.G.  
 DRAWN BY: D.N.  
 CHKD. BY: J.L.A.  
 APPVD. BY: J.L.A.  
 JOB NO. 2000-100 LD F-454

PROJECT TITLE  
**TRES SUEÑOS UNIT SIX**  
**SUBDIVISION IMPROVEMENTS**

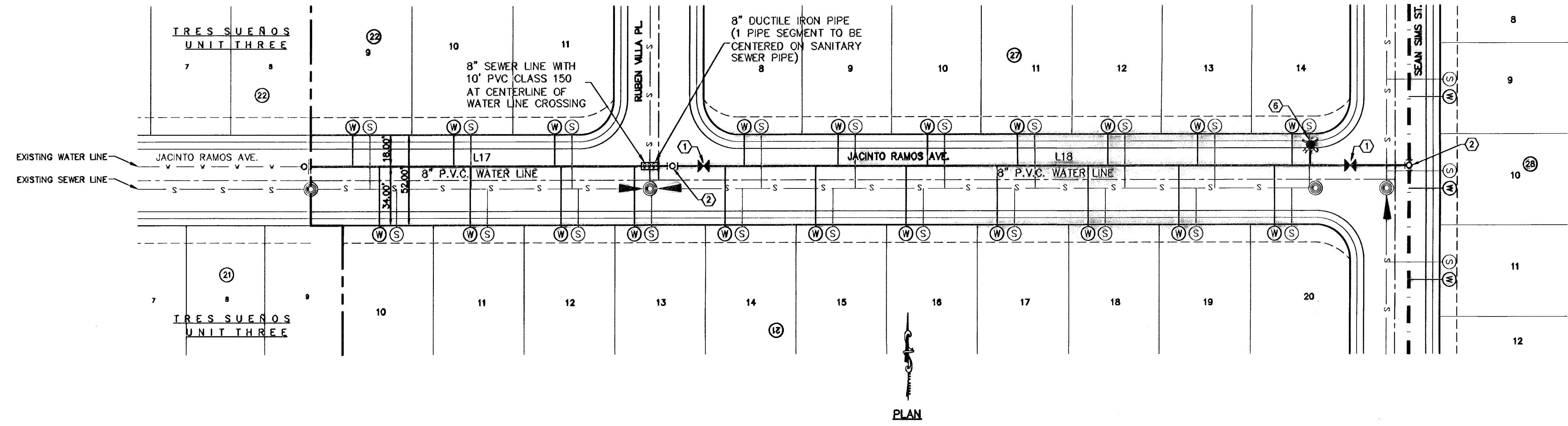
SHEET TITLE

WATER LINE IN  
 JACINTO RAMOS AVE.,  
 GR. CAMPUZANO DR.,  
 MARK AVIZO ST.

SHEET NO.

W-5

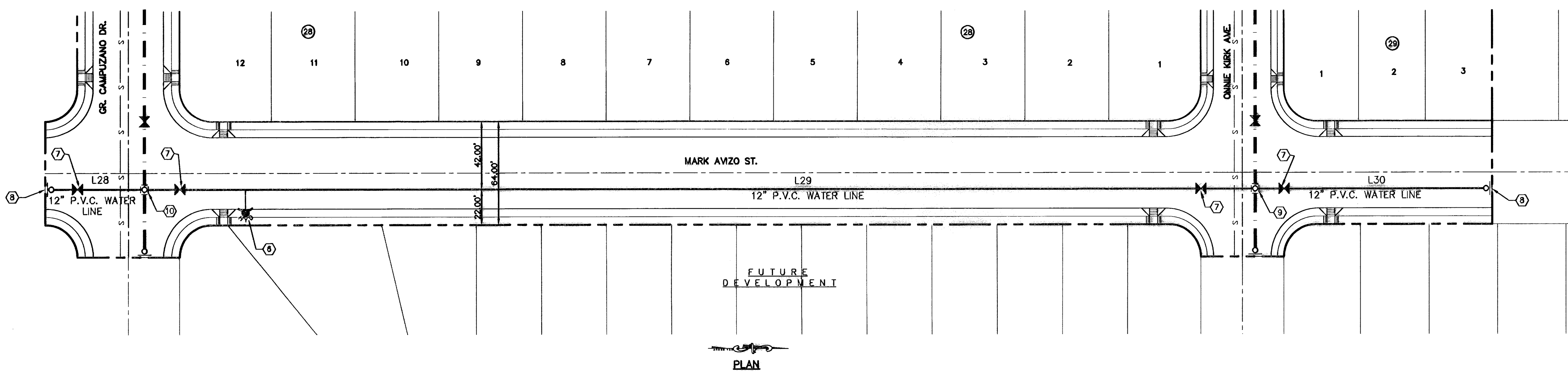
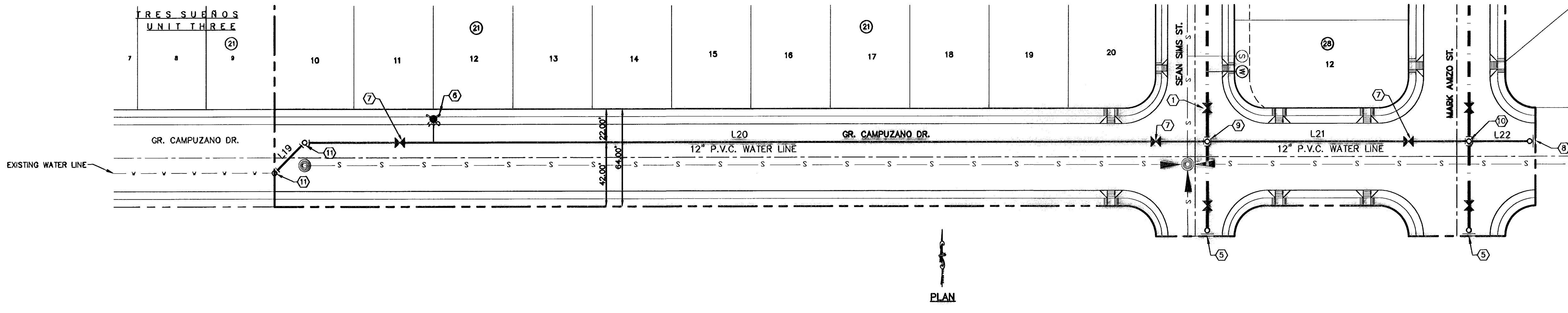
OF W-9



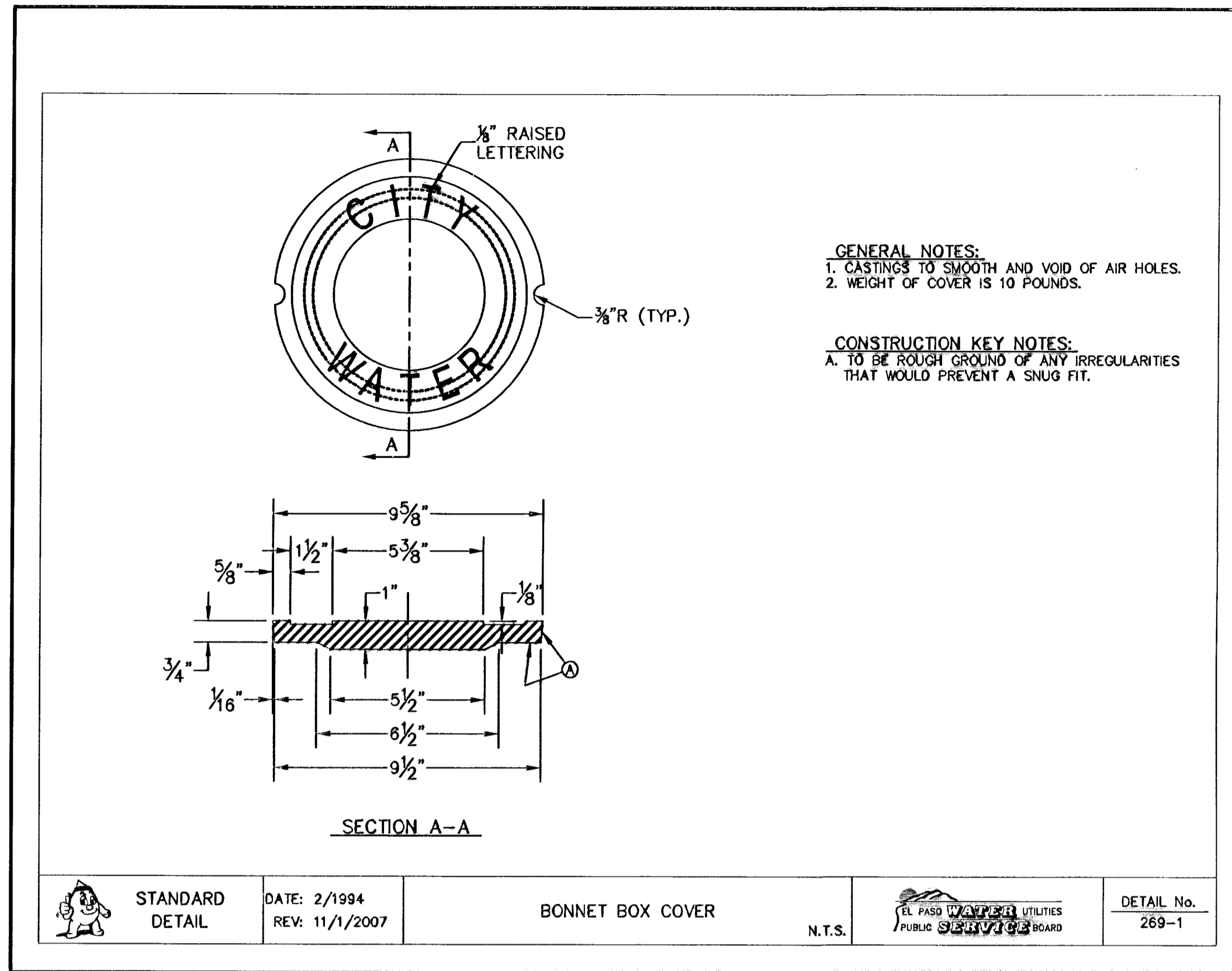
- LEGEND:**
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  - PROPOSED WATER LINE
  - PROPOSED WATER LINE IN ANOTHER STREET
  - PROPOSED WASTE WATER FLOW
  - PROPOSED 5' PASSING LANE
  - ⊙ PROPOSED WATER SERVICE
  - ⊙ PROPOSED SEWER SERVICE
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  - ✕ PROPOSED GATE VALVE
  - ▨ PROPOSED DUCTILE IRON PIPE (REFERENCE PLAN FOR ACTUAL SIZE)

**WATER KEYED NOTES**

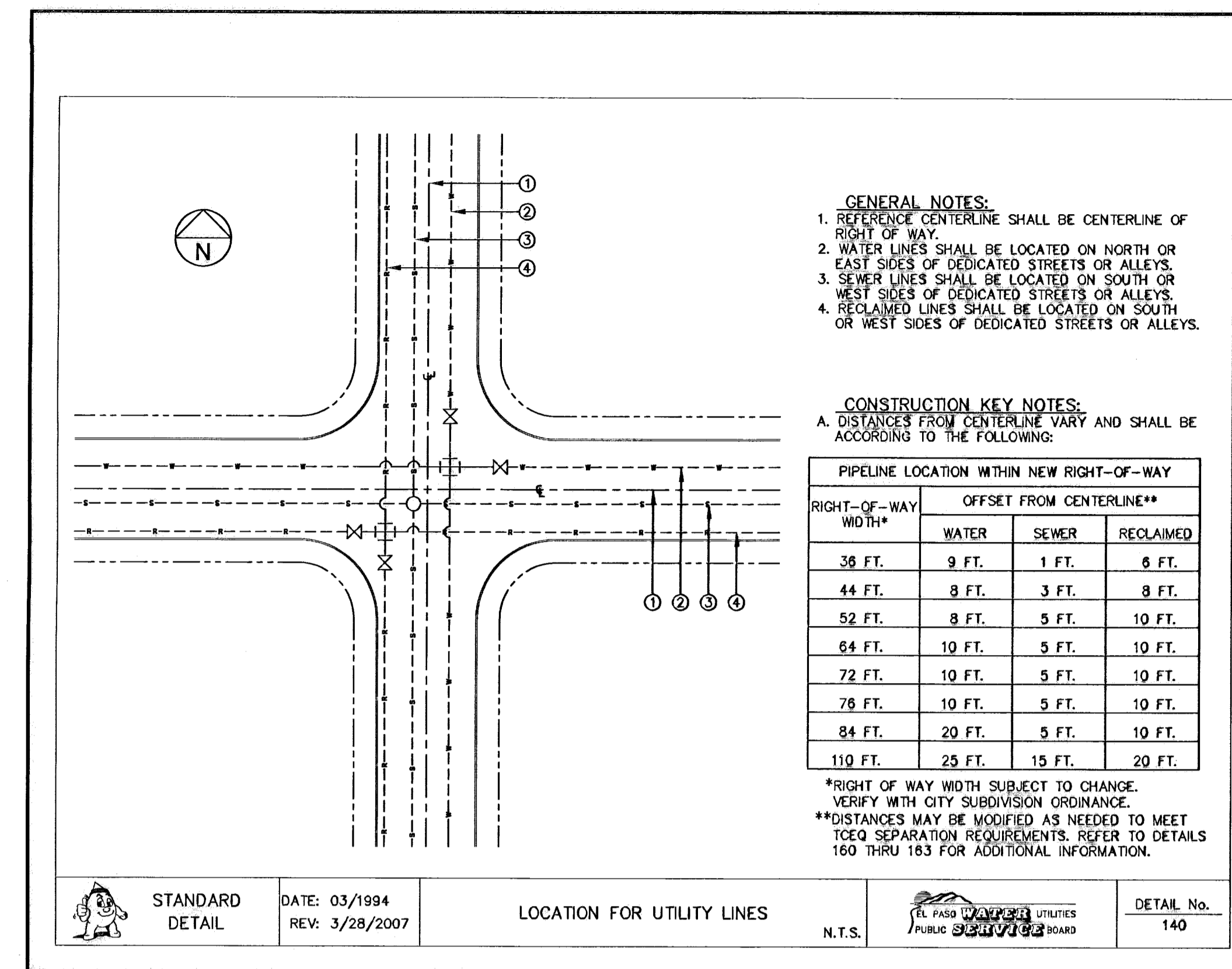
①	8" Ø GATE VALVE
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④	8" BEND
⑤	8" PLUG
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⑦	12" Ø GATE VALVE
⑧	12" PLUG
⑨	8" X 12" CROSS
⑩	12" X 12" CROSS
⑪	12" BEND



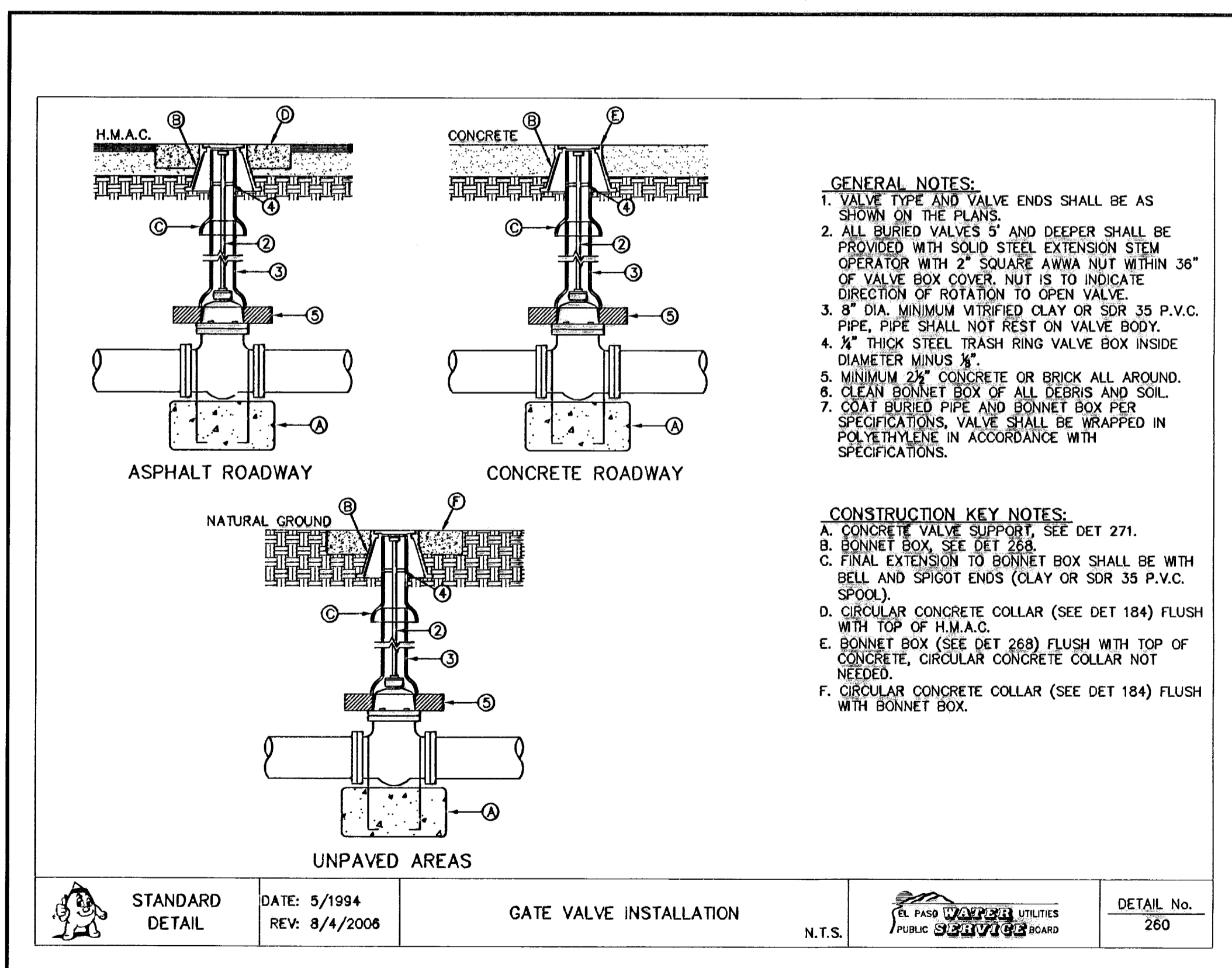
FUTURE DEVELOPMENT



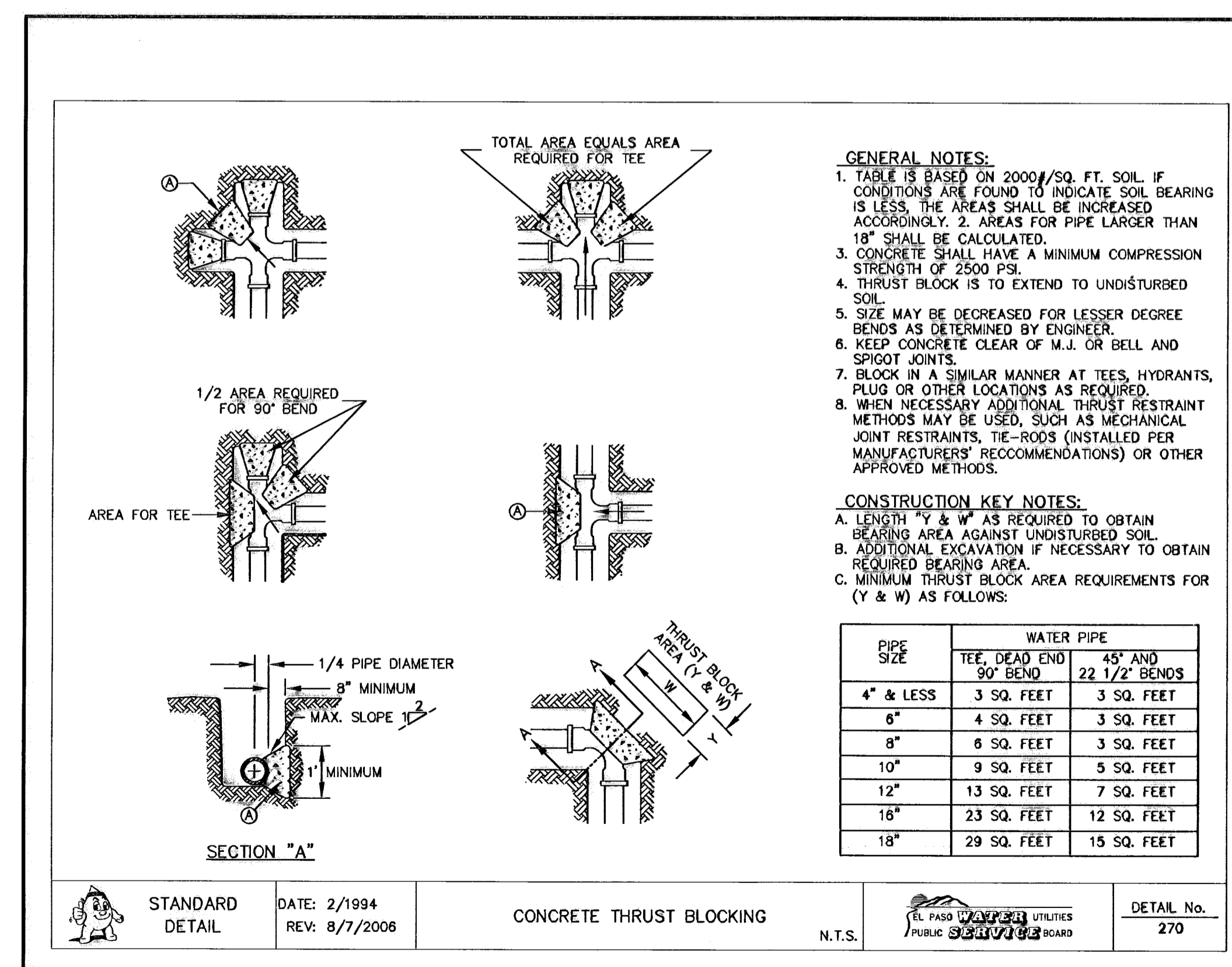
1 BONNET BOX COVER  
W-6 N.T.S.



2 LOCATION FOR UTILITY LINES  
W-6 N.T.S.



3 GATE VALVE INSTALLATION  
W-6 N.T.S.

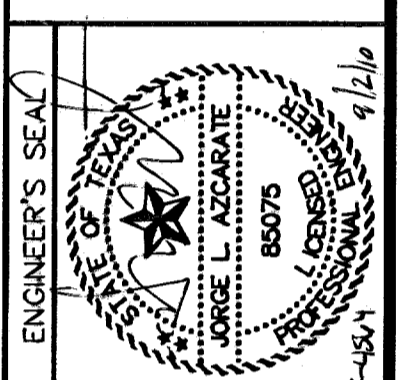


4 CONCRETE THRUST BLOCKING  
W-6 N.T.S.

REFERENCES - BENCHMARKS  
 CITY MONUMENT AT POINT OF CURVE  
 CENTERLINE RICH BEEM BLVD., S08°43'31" E A  
 DISTANCE OF 467.58 FEET FROM THE  
 SOUTHERLY RIGHT OF WAY LINE OF MONTANA  
 AVENUE, CITY DATUM  
 ELEVATION.....4005.40

DATE \_\_\_\_\_ REVISIONS \_\_\_\_\_ BY \_\_\_\_\_

**cea**  
 engineers • architects • planners  
 Castron Center @ Transmountain  
 4712 Woodrow Blvd, Ste. F El Paso, TX 79824  
 Phone: 915.541.5232 Fax: 915.541.5233 www.ceainc.com



SCALE: N/A  
 Horizontal: N/A  
 Vertical: N/A  
 Contour Interval: \_\_\_\_\_  
 DATE: MARCH 2008  
 DESIGN BY: J.L.A.  
 DRAWN BY: J.L.A.  
 CHKD. BY: J.L.A.  
 APPVD. BY: J.L.A.  
 JOB No. 2000-100 LD

PROJECT TITLE  
**TRES SUEÑOS UNIT SIX  
 SUBDIVISION IMPROVEMENTS**

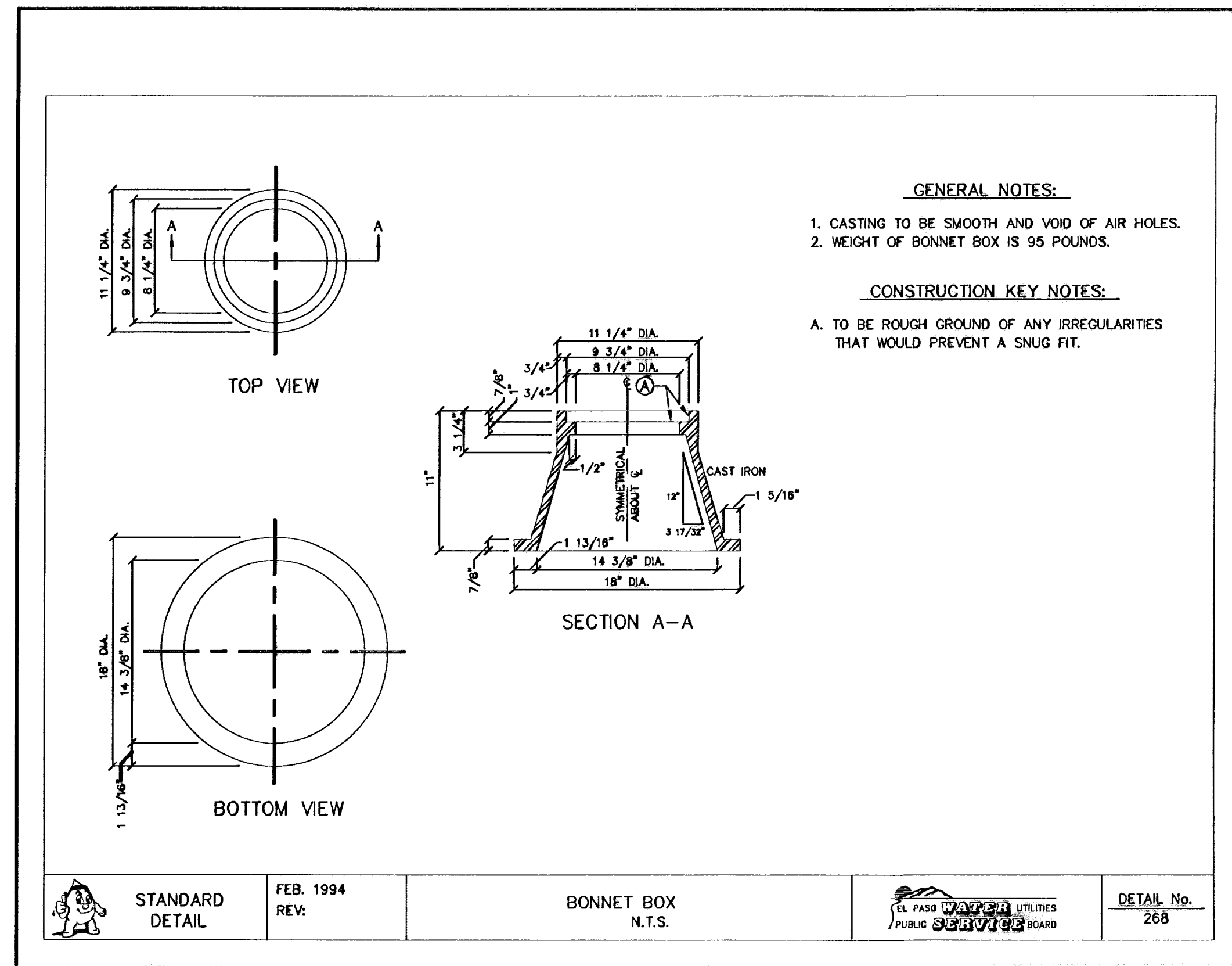
SHEET TITLE

WATER DETAILS  
 (SHEET 1 OF 4)

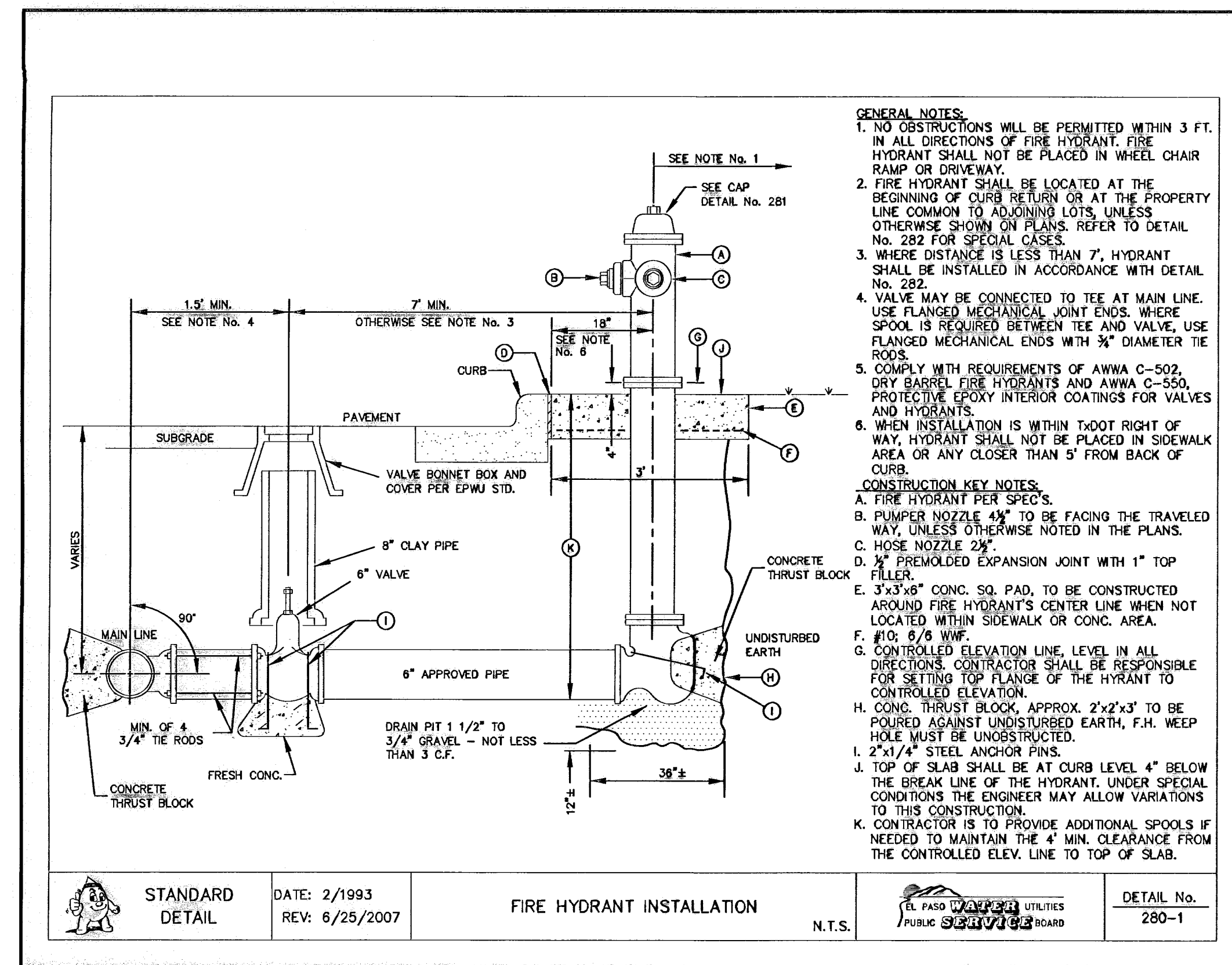
SHEET NO.

W-6

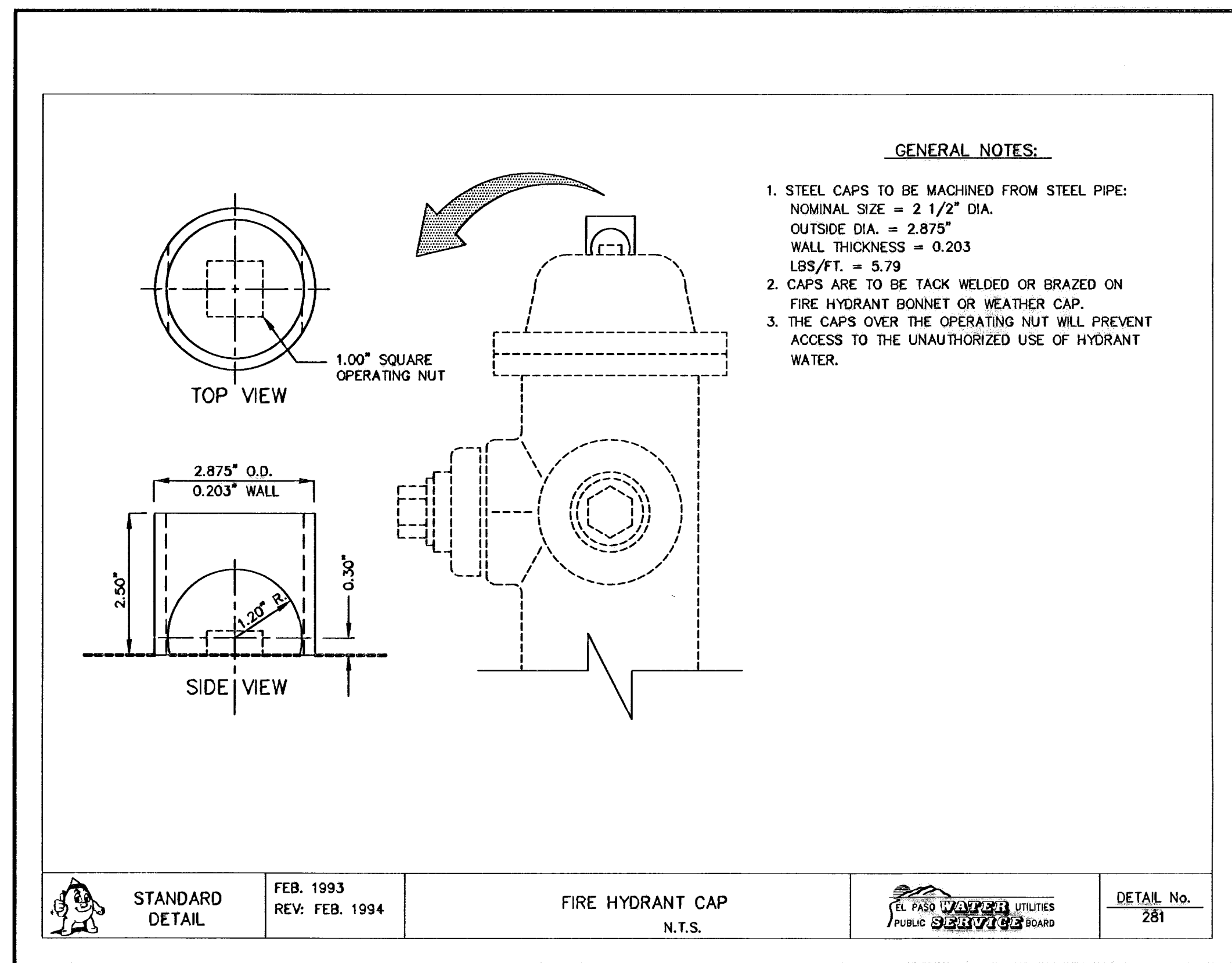
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 09/01/10



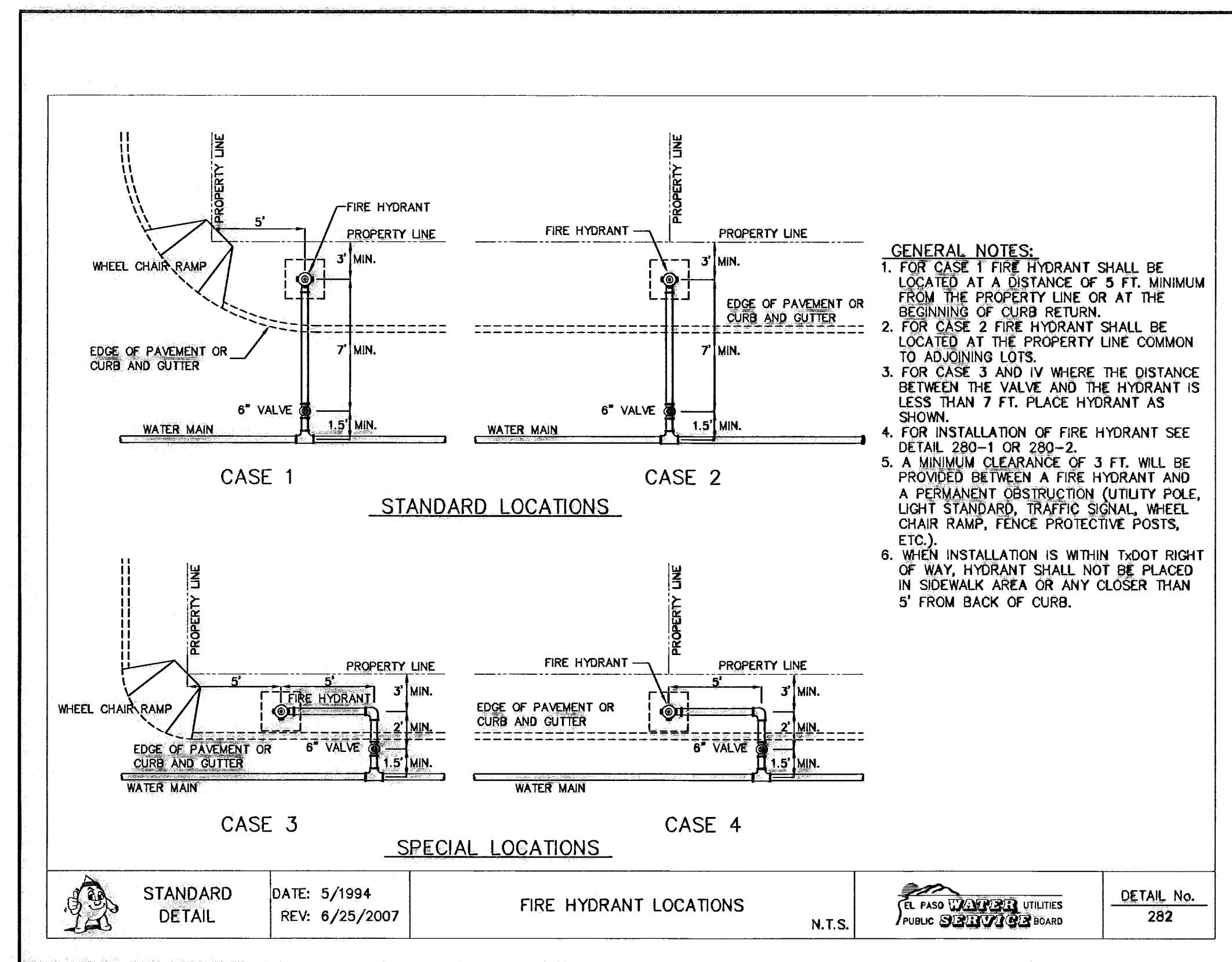
1 BONNET BOX  
N.T.S.



2 FIRE HYDRANT INSTALLATION  
N.T.S.



3 FIRE HYDRANT CAP  
N.T.S.

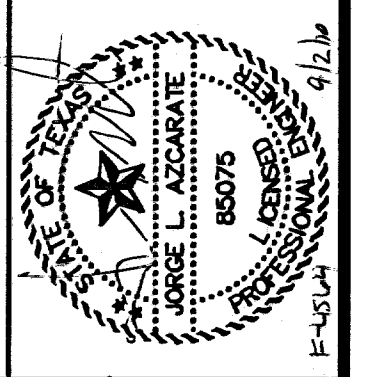


4 FIRE HYDRANT LOCATIONS  
N.T.S.

REFERENCES - BENCHMARKS

CITY MONUMENT AT POINT OF CURVE	DATE	BY
CENTERLINE RICH BEEM BLVD., SUB#331' E A		
SOUTHERLY RIGHT OF WAY LINE OF MONTANA		
SOUTHERLY RIGHT OF WAY LINE OF MONTANA		
AVENUE CITY DATUM		
ELEVATION		
4005.40		

**osa**  
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1712 Woodrow Bean, Ste. F, El Paso, TX 78624  
Phone: 972.768.1111 Fax: 972.768.1112 www.osagroup.com



SCALE

Horizontal:	N/A
Vertical:	N/A
Contour Interval:	N/A
DATE:	MARCH 2009
DESIGN BY:	J.G.
DRAWN BY:	D.N.
CHKD. BY:	J.L.A.
APPRD. BY:	J.L.A.
JOB No.	2000-100 LD

PROJECT TITLE

**TRES SUEÑOS UNIT SIX  
SUBDIVISION IMPROVEMENTS**

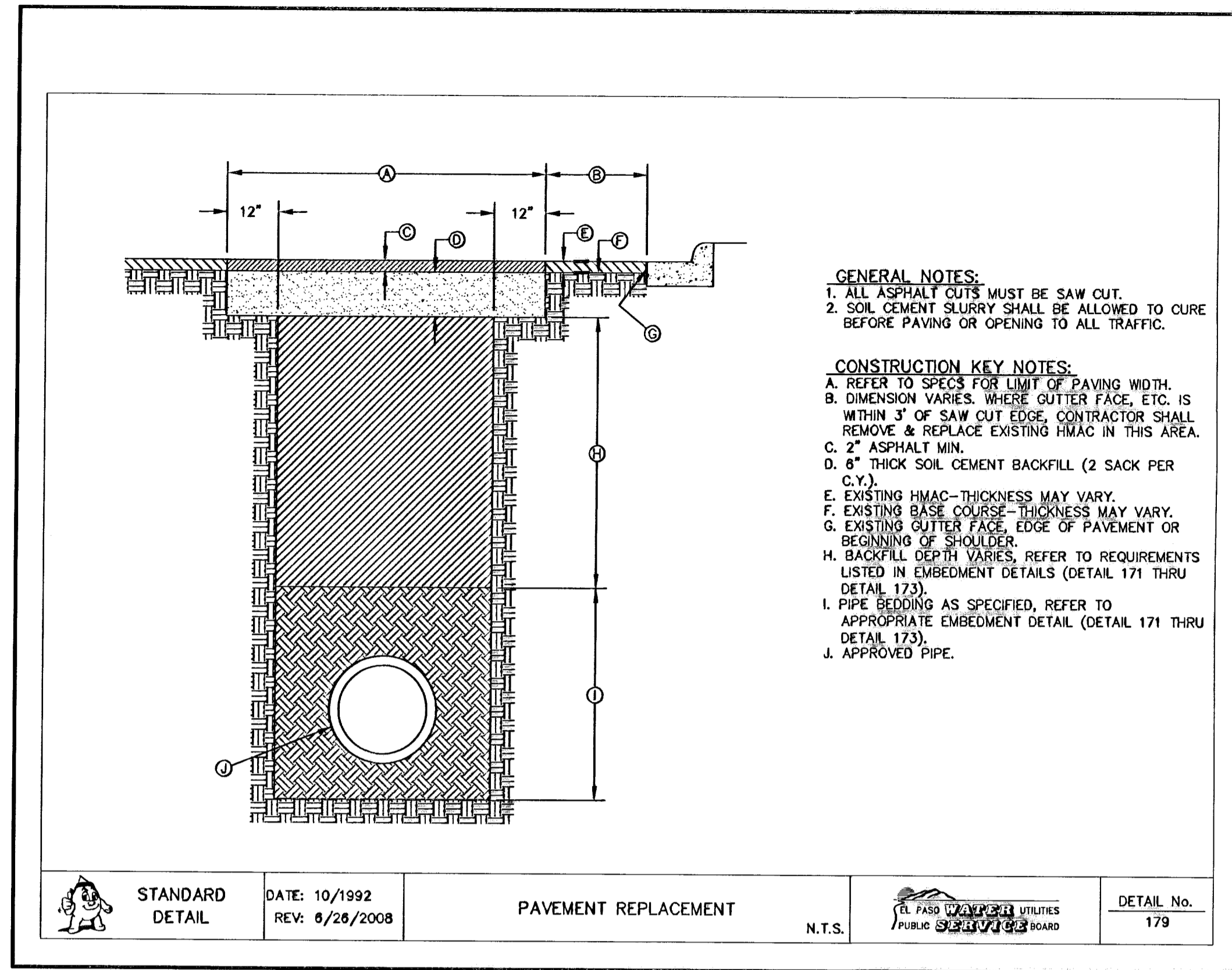
SHEET TITLE

**WATER DETAILS  
(SHEET 2 OF 4)**

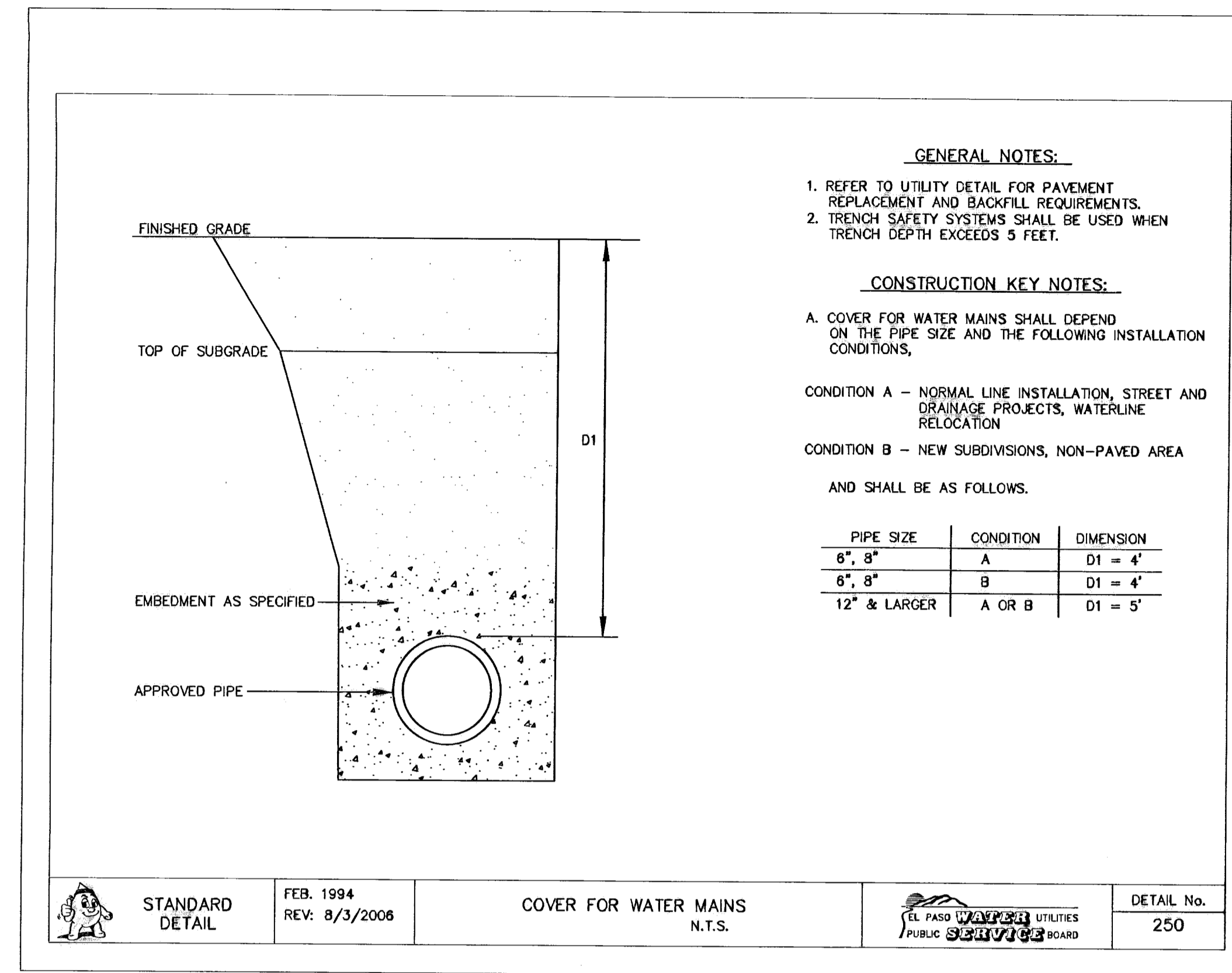
SHEET NO.

**W-7**

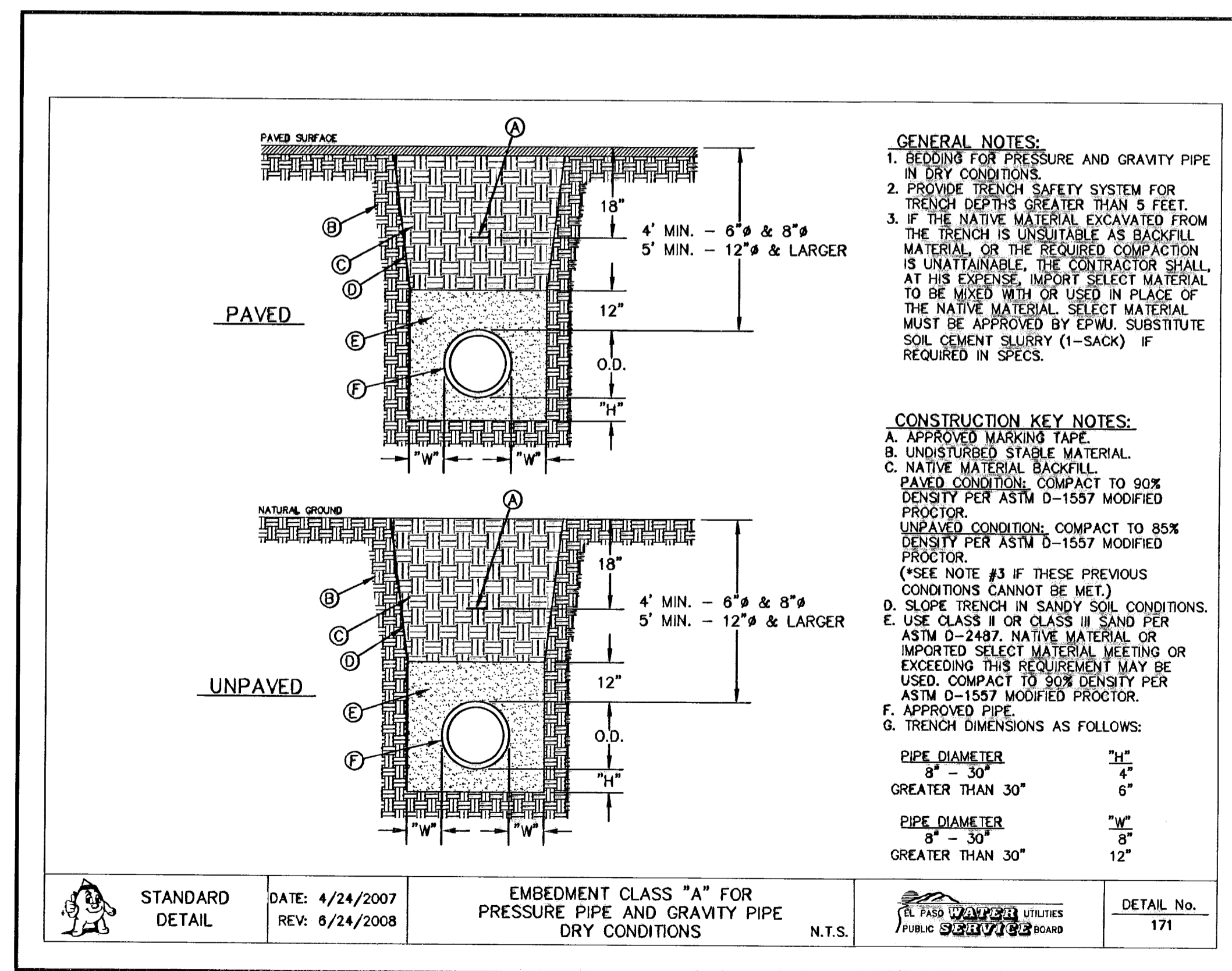
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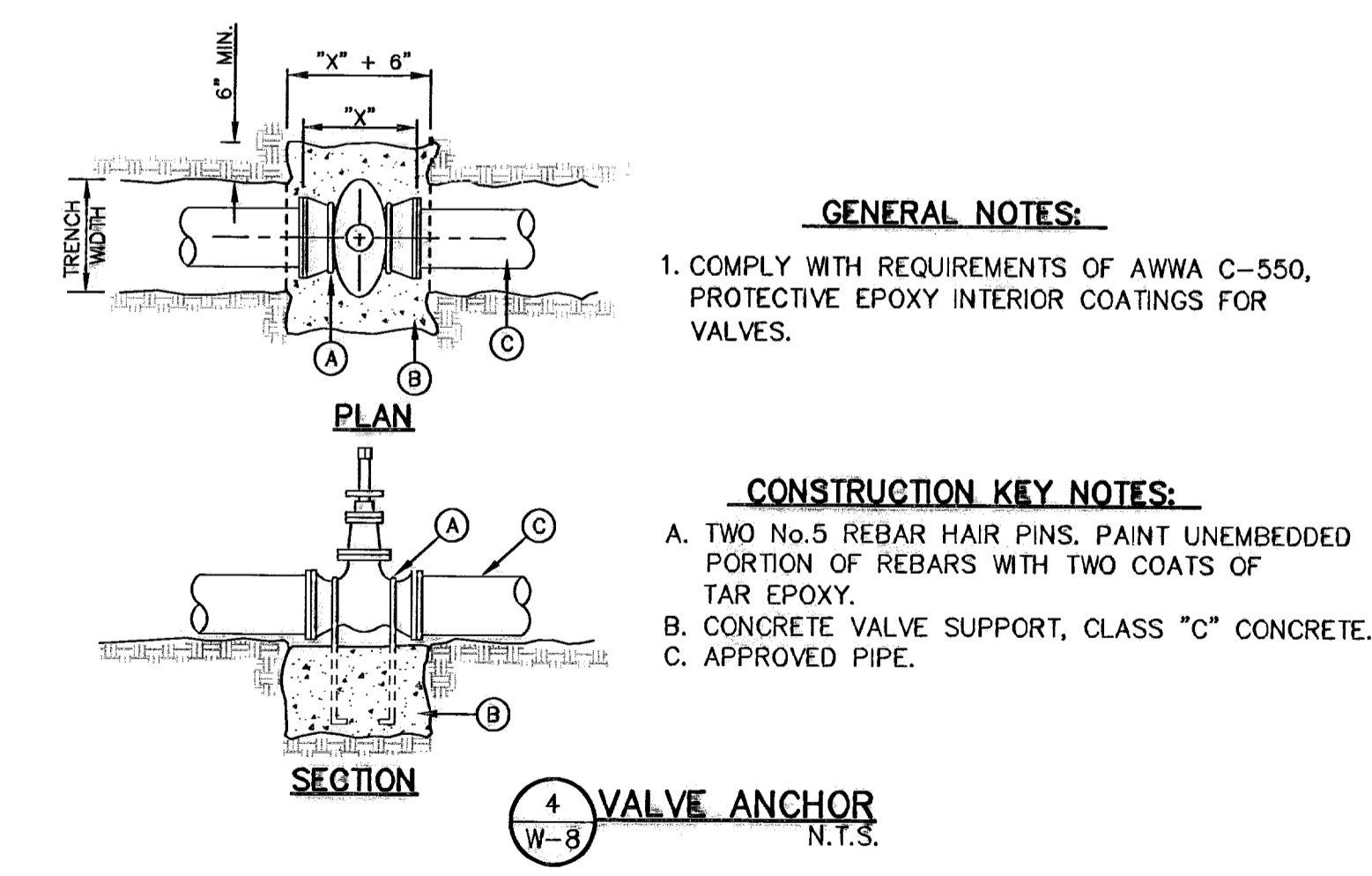
1 PAVEMENT REPLACEMENT  
W-8 N.T.S.



2 COVER FOR WATER MAINS  
W-8 N.T.S.



3 BEDDING CLASS DETAILS FOR P.V.C. PRESSURE PIPE  
W-8 SCALE: N.T.S.



4 VALVE ANCHOR  
W-8 N.T.S.

REFERENCES - BENCHMARKS  
 CITY MONUMENT AT POINT OF CURVE  
 CENTERLINE RICH BEEM BLVD., S08+33.31' E A  
 S01+18.00' N07+00.00' R100+00.00' L  
 467.98 FEET FROM THE  
 CENTERLINE OF RICH BEEM BLVD.  
 AVENUE CITY DATUM  
 ELEVATION:.....4005.40

DATE REVISIONS BY

CSA GROUP  
 engineers • architects • planners  
 Casheer Center @ Transmountain  
 4712 Woodrow Bean, Ste. E El Paso, TX 79924  
 One Woodward Plaza, Fort Worth, TX 76102

ENGINEER'S SEAL  
 EL PASO WATER UTILITIES  
 PUBLIC SERVICE BOARD  
 JORGE L. AZCARRATE  
 80405  
 10/10/08

SCALE  
 Horizontal: N/A  
 Vertical: N/A  
 Contour Interval: N/A  
 DATE: MARCH 2009  
 DESIGN BY: J.G.  
 DRAWN BY: D.N.  
 CHKD. BY: J.L.L.  
 APP'D. BY: J.L.L.  
 JOB No. 2000-100 LD  
 F-54

PROJECT TITLE  
 TRES SUEÑOS UNIT SIX  
 SUBDIVISION IMPROVEMENTS

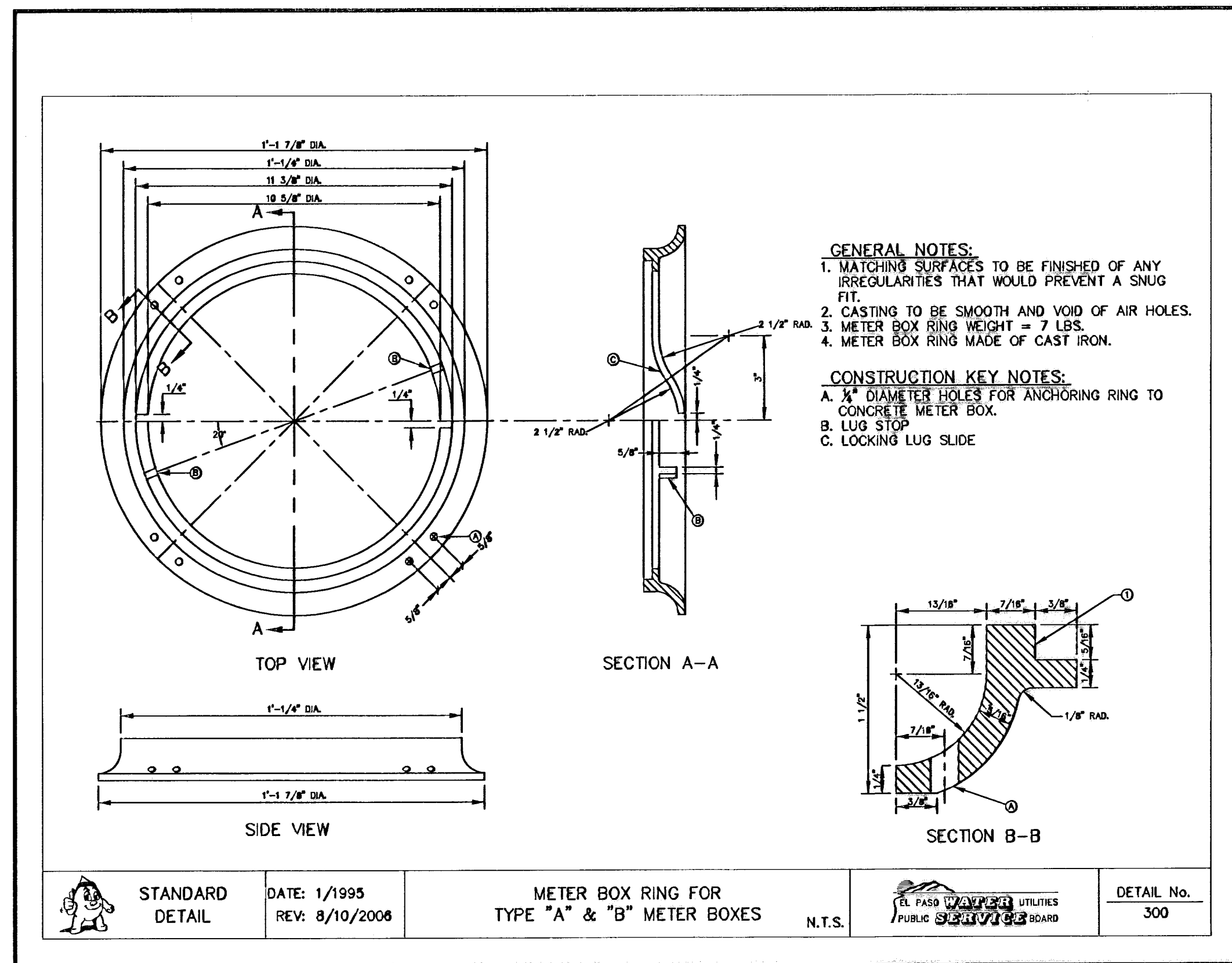
SHEET TITLE  
 WATER DETAILS  
 (SHEET 3 OF 4)

SHEET NO.  
 W-8

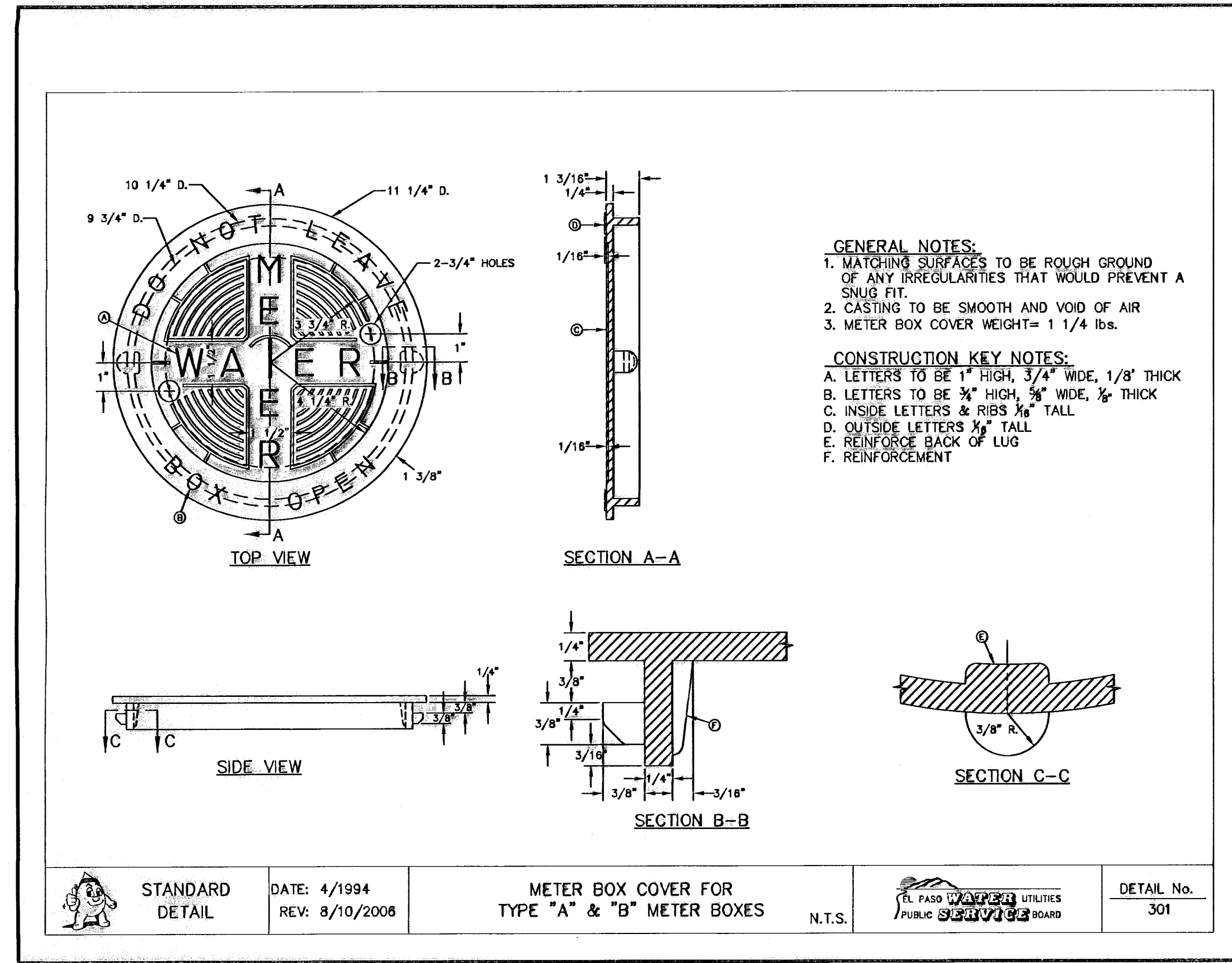
OF 9

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 09/01/10

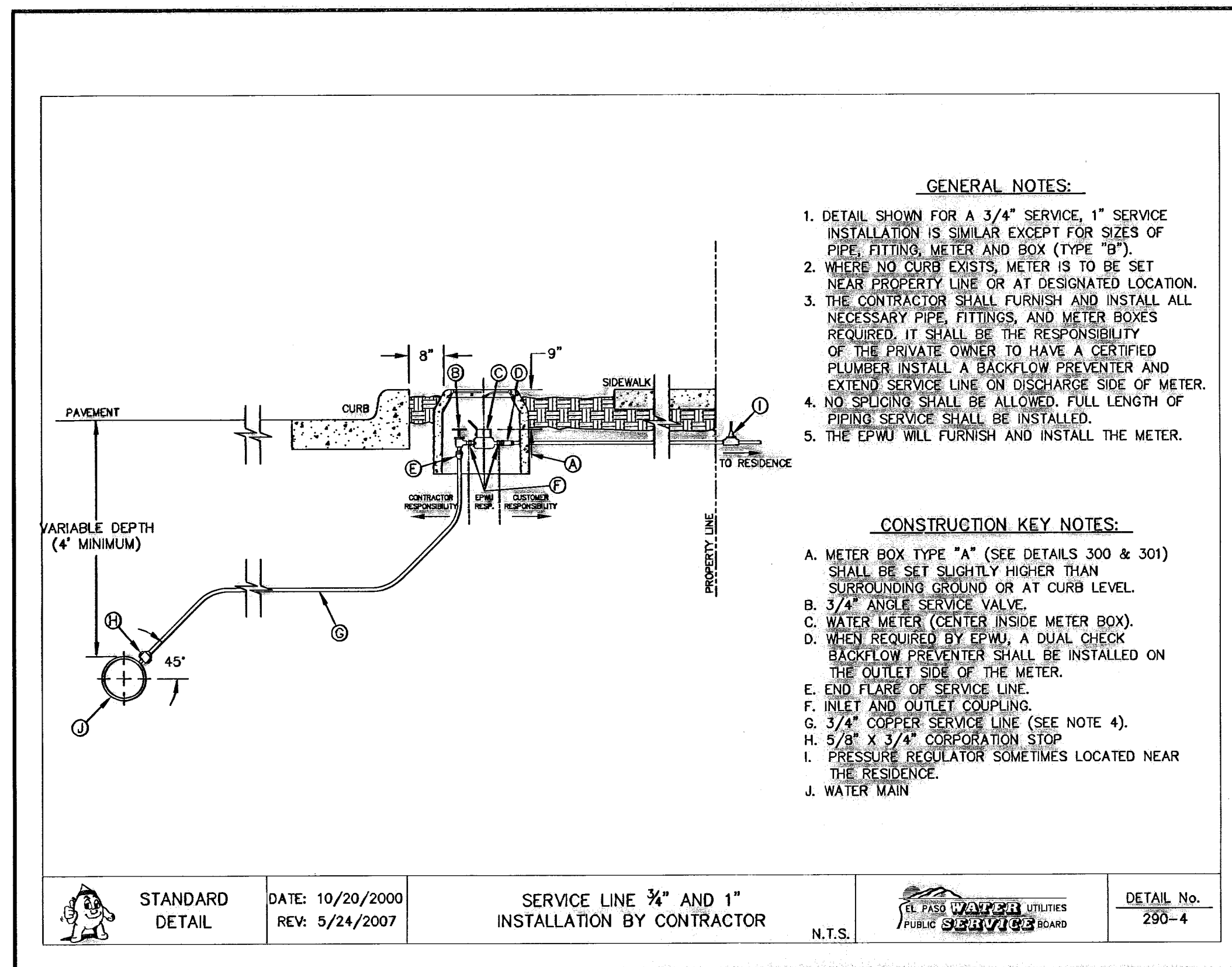




1 METER BOX RING FOR  
W-9 TYPE "A" & "B" METER BOXES  
N.T.S.



2 METER BOX COVER FOR  
W-9 TYPE "A" & "B" METER BOXES  
N.T.S.

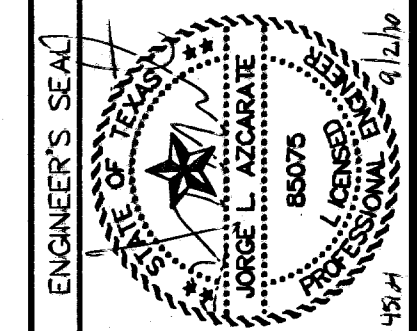


3 SERVICE LINE 3/4" AND 1"  
W-9 INSTALLATION BY CONTRACTOR  
SCALE: N.T.S.

REFERENCES - BENCHMARKS

CITY MONUMENT AT POINT OF CURVE  
 CENTERLINE BEING BLVD CORNER 31' E A  
 DISTANCE OF 457.88 FEET FROM THE  
 SOUTHERLY RIGHT OF WAY LINE OF MONTANA  
 AVENUE CITY DATUM  
 ELEVATION.....4005.40

DATE	REVISIONS	BY
------	-----------	----



SCALE

Horizontal: N/A  
 Vertical: N/A

Contour Interval: N/A

DATE: MARCH 2009  
 DESIGN BY: J.C.  
 DRAWN BY: D.N.  
 CHKD. BY: J.L.A.  
 APPVD. BY: J.L.A.

JOB No. - 2000-100 LD F-1954

PROJECT TITLE

TRES SUEÑOS UNIT SIX  
 SUBDIVISION IMPROVEMENTS

SHEET TITLE

WATER DETAILS  
(SHEET 4 OF 4)

SHEET NO.

W-9

OF W-9

RECORD DRAWINGS

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