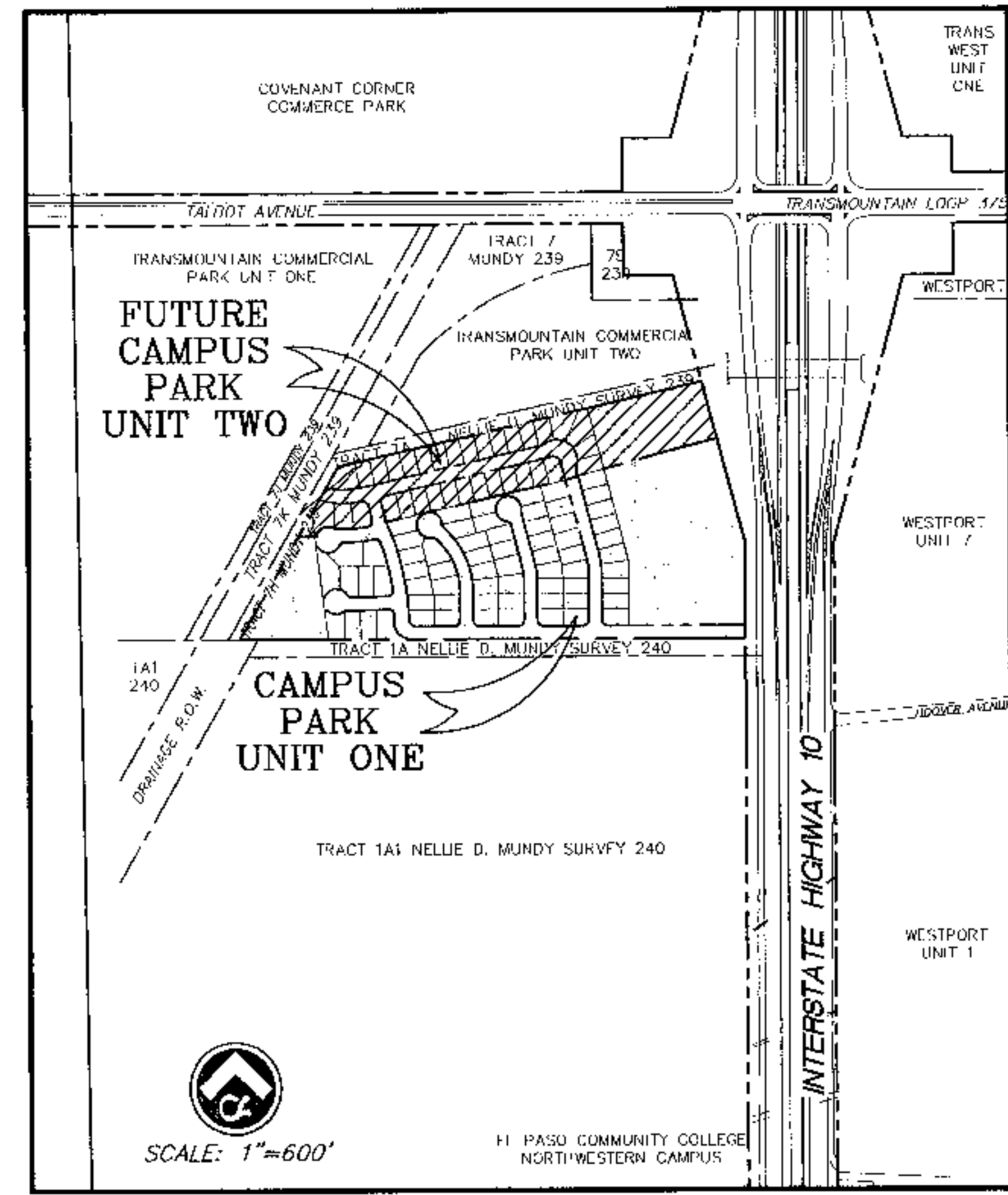
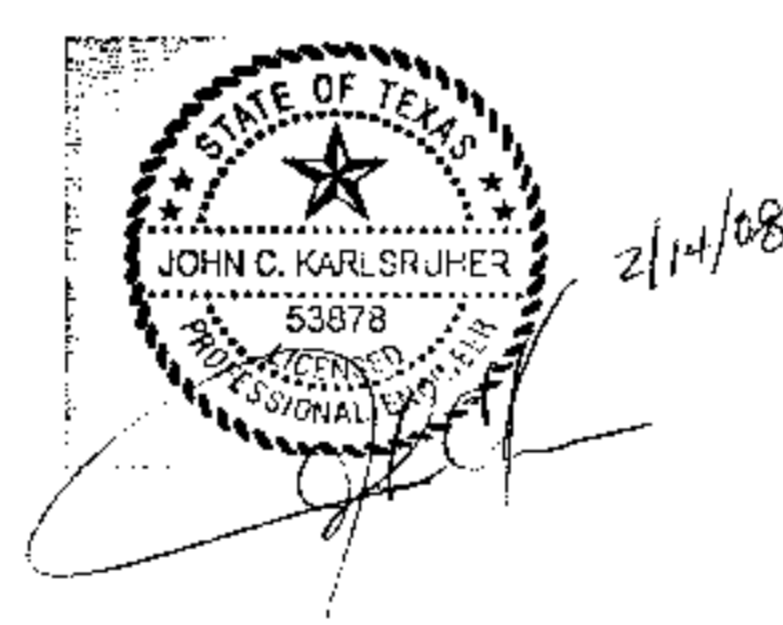


PLANS FOR CONSTRUCTION OF CAMPUS PARK UNIT ONE Subdivision



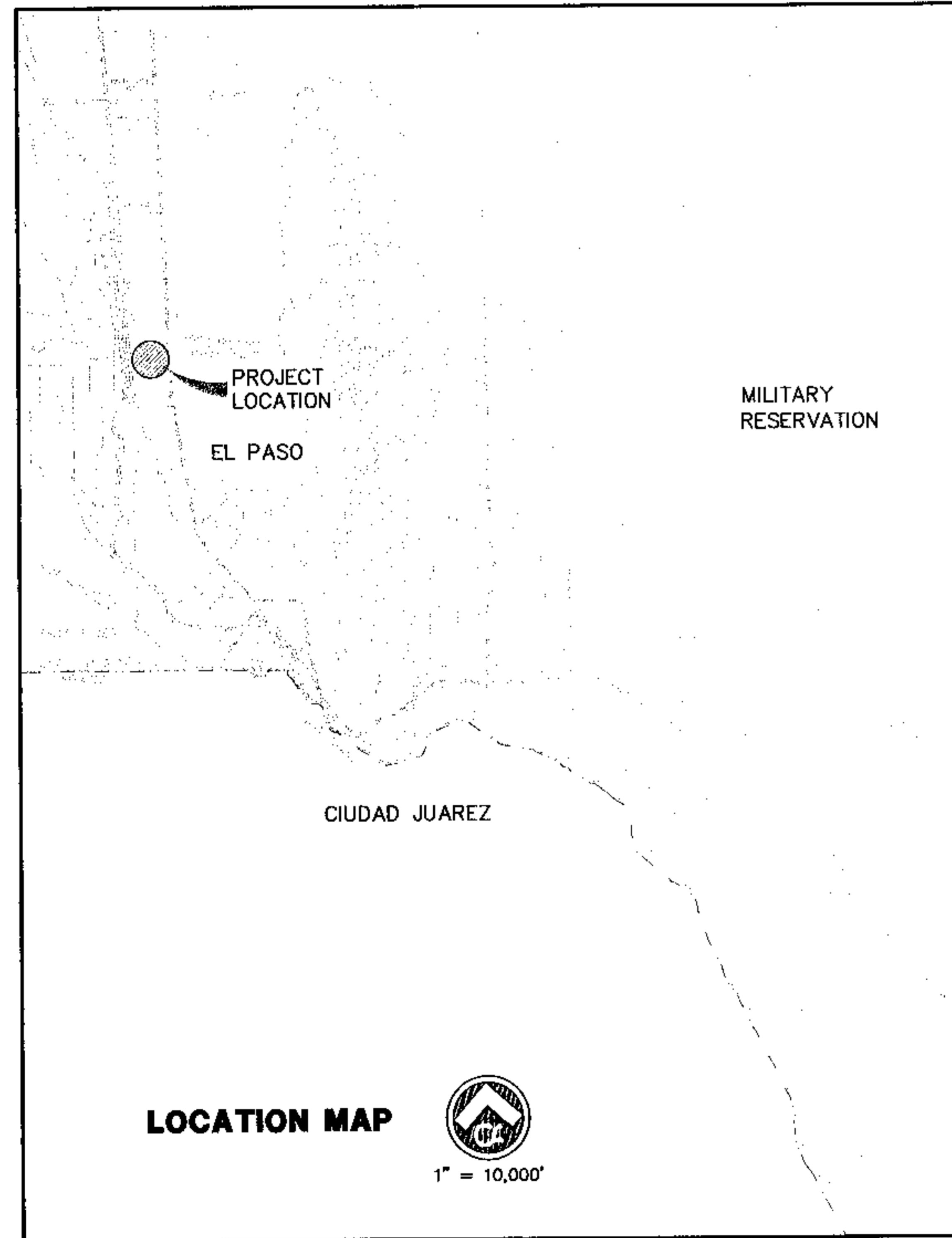
VICINITY MAP



DEVELOPMENT SERVICES DEPARTMENT
SITE PLAN REVIEW
Reviewed For Conformance For Conditions Related To:

| | |
|---|--|
| <input type="checkbox"/> Demolition Only | <input type="checkbox"/> Sidewalks |
| <input type="checkbox"/> Grading & Drainage | <input type="checkbox"/> Driveways |
| <input type="checkbox"/> Wheelchair Ramps | <input type="checkbox"/> Retaining Rock Walls |
| <input type="checkbox"/> On Site Parking Layout | <input type="checkbox"/> On-Site Ponding of Storm Waters |

Contractor Must Call 24 Hours Prior To Construction For Inspection
 BY *John C. Karlshimer* 2/15/2008
 DATE



LOCATION MAP


 1845 Northwestern Dr. Ste C
 El Paso, Texas 79912
 tel [915] 877.4155
 fax [915] 877.4334
 www.csaengineers.com

DRAWING INDEX

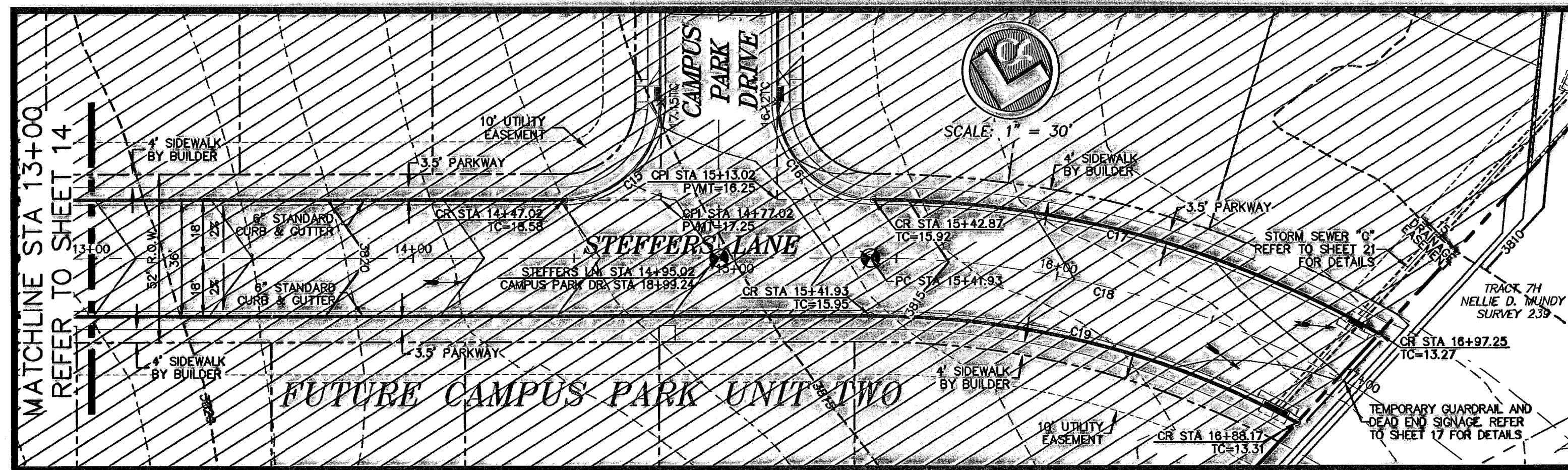
| SHEET NO. | DRAWING TITLE |
|-----------|--|
| 1 | -----COVER SHEET |
| 2 | -----SUBDIVISION PLAT |
| 3 | -----DRAINAGE PLAN |
| 4 | -----GRADING PLAN |
| 5,6 | -----CROSS SECTIONS |
| 7,8,9 | -----CAMPUS PARK DRIVE PLAN & PROFILE |
| 10 | -----JORDYN EMILY LANE PLAN & PROFILE |
| 11 | -----JEN RENEE LANE PLAN & PROFILE |
| 12 | -----JOSEPH DWAYNE & KAUFMAN LANE PLAN & PROFILE |
| 13,14,15 | -----STEFFERS DRIVE PLAN & PROFILE |
| 16 | -----DECEL LANE PLAN & PROFILE |
| 17,18 | -----STANDARD DETAILS |
| 19,20,21 | -----STORM SEWER PLAN & PROFILE |
| 22,23 | -----STORM SEWER DETAILS |
| 24 | -----POND PLAN |
| 25 | -----POND CROSS SECTIONS |
| 26 | -----ILLUMINATION PLAN |
| 27,28 | -----STORM WATER POLLUTION PREVENTION PLAN |

FILE No. 7008

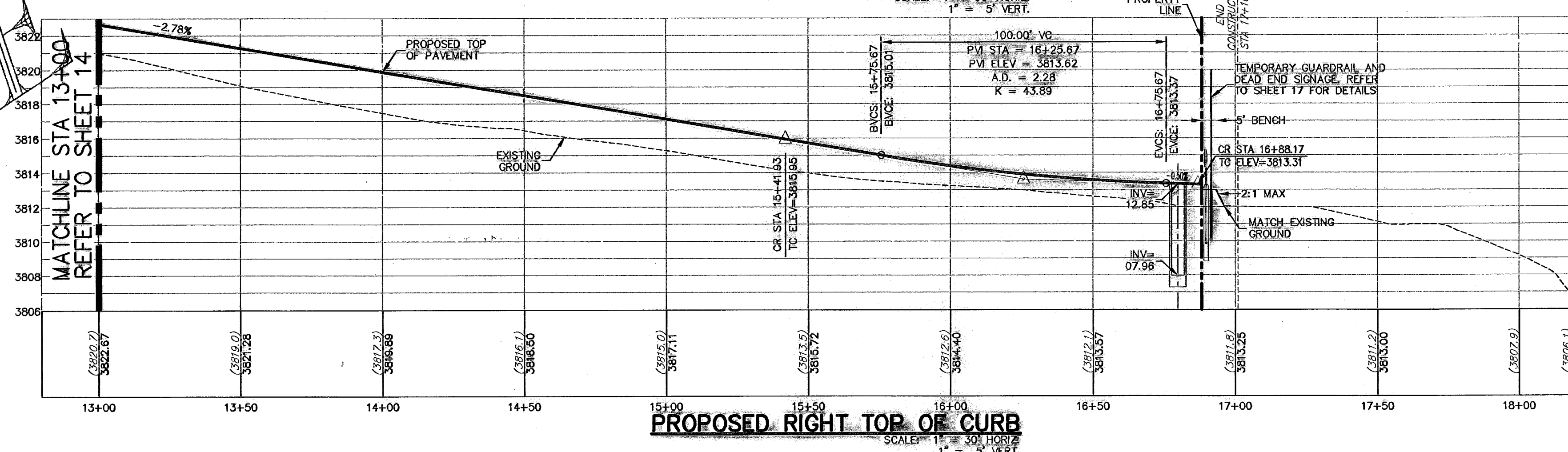
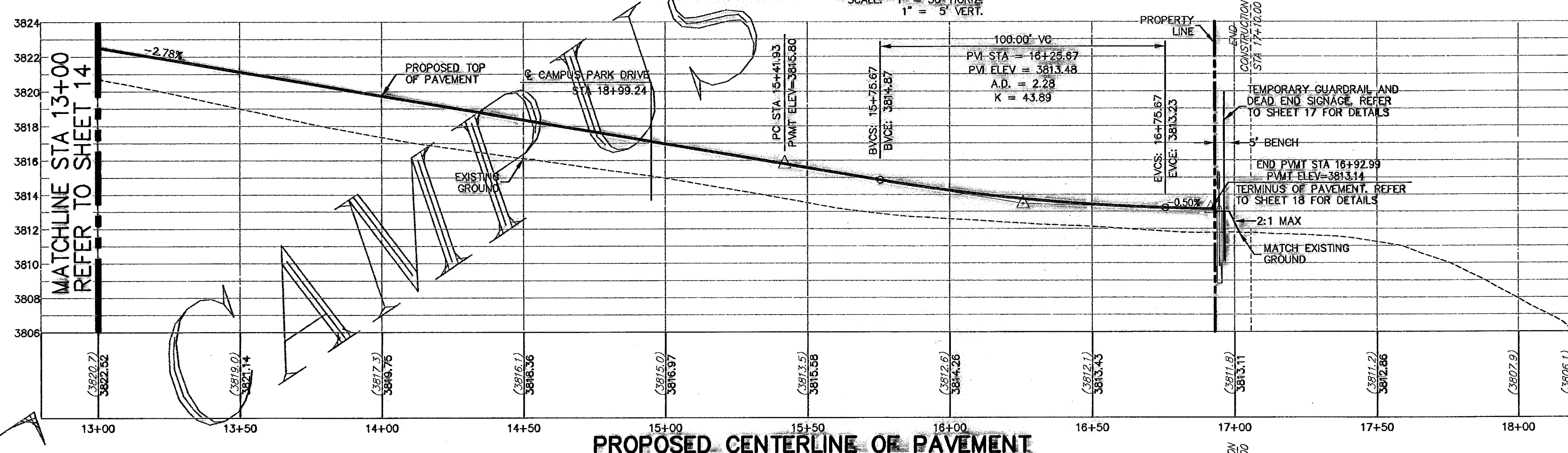
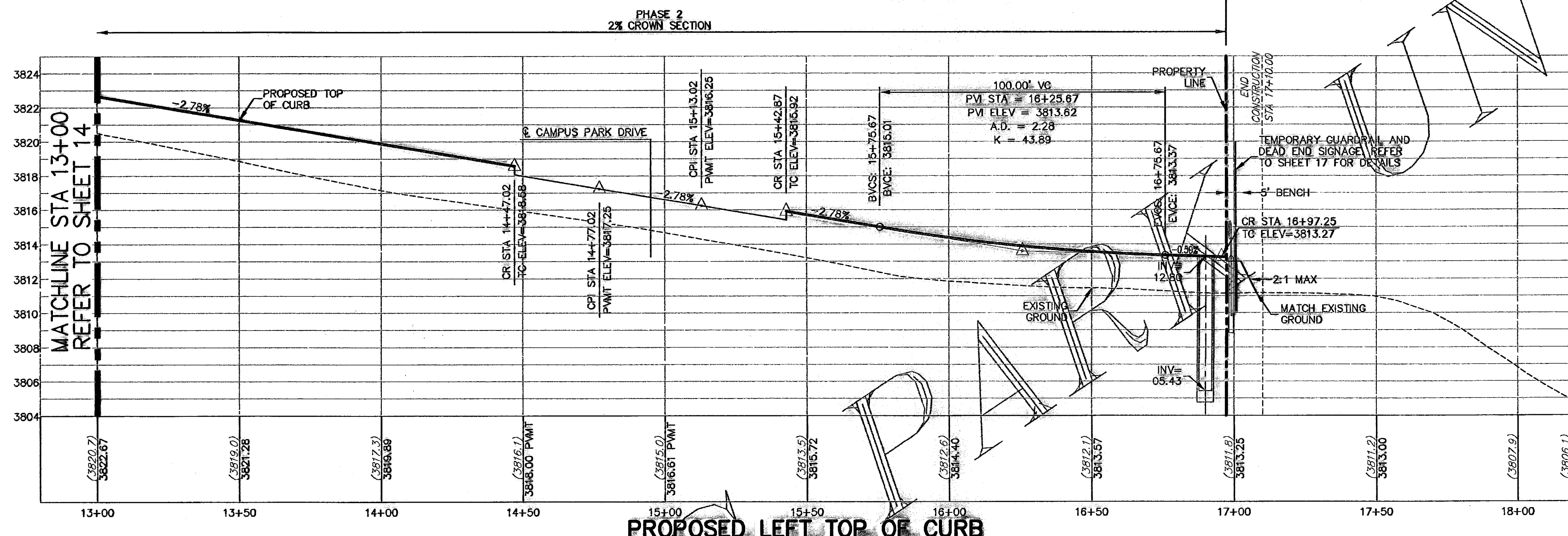
2/14/08 FINAL SUBMITTAL

7008 CAMPUS PARK UNIT ONE

| CURVE | RADIUS | LENGTH | TANGENT | CHORD | BEARING | DELTA |
|-------|--------|--------|---------|--------|-------------|-----------|
| C15 | 30.00 | 47.12 | 30.00 | 42.43 | S32°59'19"W | 90°00'00" |
| C16 | 30.00 | 47.03 | 29.31 | 42.38 | N27°45'17"W | 89°49'10" |
| C17 | 318.00 | 152.68 | 77.84 | 151.22 | S88°54'35"E | 27°30'54" |
| C18 | 300.00 | 224.90 | 118.03 | 219.67 | S81°22'08"E | 42°57'08" |
| C19 | 282.00 | 125.14 | 63.62 | 124.12 | N89°52'05"E | 25°25'35" |



ALL SIDEWALKS AND ACCESSIBLE RAMPS SHALL COMPLY WITH ADA AND T&E STANDARDS AND GUIDELINES



- LEGEND**
- LOT LINE
 - - - UTILITY EASEMENT
 - CENTER LINE OF STREET
 - STREET R.O.W.
 - CENTER LINE OF ALIGNMENT
 - - - 4" ROLLED CURB & GUTTER
 - SUBDIVISION BOUNDARY LINE
 - 3728.85 PROPOSED TOP OF CURB FINISHED GRADES
 - (3729.2) EXISTING GRADE
 - TC=08.09 PROPOSED TOP OF CURB ELEVATION
 - PWMT=08.65 PROPOSED PAVEMENT ELEVATION
 - DIRECTION OF RUNOFF FLOW
 - ▲ HIGH POINT
 - ▼ LOW POINT
 - ▲ POINT OF VERTICAL INTERSECTION
 - ▲ 50' TRANSITION AT INTERSECTION
 - ⊕ PROPOSED CITY MONUMENT
 - ACCESSIBLE RAMP
 - 5'x5' PASSING ZONE BY BUILDER
 - PARKWAY VARIES BY BUILDER
 - 4' SIDEWALK (TYP) BY BUILDER
 - R.O.W.

| NO. | DATE | DESCRIPTION | BY |
|-----|----------|---------------------------|-----|
| 5 | 3/17/10 | Revised As-Built Drawings | JCK |
| 6 | 9/14/09 | Revised As-Built Drawings | JCK |
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WARNING!
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FIELD LOCATE ALL
EXISTING UNDERGROUND
IMPROVEMENTS IN
PROJECT AREA

BEFORE YOU DIG - CALL

EL PASO ELECTRIC COMPANY
543-5720
1-800-DIG-TESS

EL PASO GAS SERVICE
544-6300
1-800-DIG-TESS

TEXAS GAS SERVICE
1-800-DIG-TESS

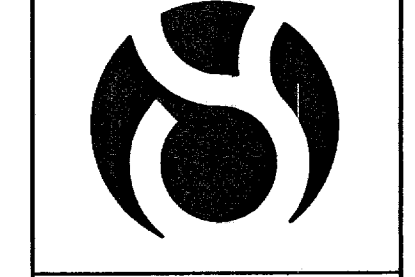
PSB (WATER & SEWER)
775-7414

EL PASO NATURAL GAS CO.
1-800-344-8377

TEXAS EXCAVATION SAFETY SYSTEM

STATE OF TEXAS
REGISTERED PROFESSIONAL ENGINEER
JOHN C. KARLSRUHER
53878

csa design group, inc.
Texas Registered Engineering Firm #4697
1845 Northwestern Dr. Site C
El Paso, Texas 79912
Tel (915) 877-4155
Fax (915) 877-4534
www.csaengineers.com



CAMPUS PARK
UNIT ONE
SUBDIVISION

SHEET TITLE

**STEFFERS
DRIVE PLAN
& PROFILE**

GOB 7008
DS ~ EC ~ GB 12/11/07
JCK AS NOTED
15

RECORD DRAWING

28

Mar 16, 2010 - 2:21pm
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woodward

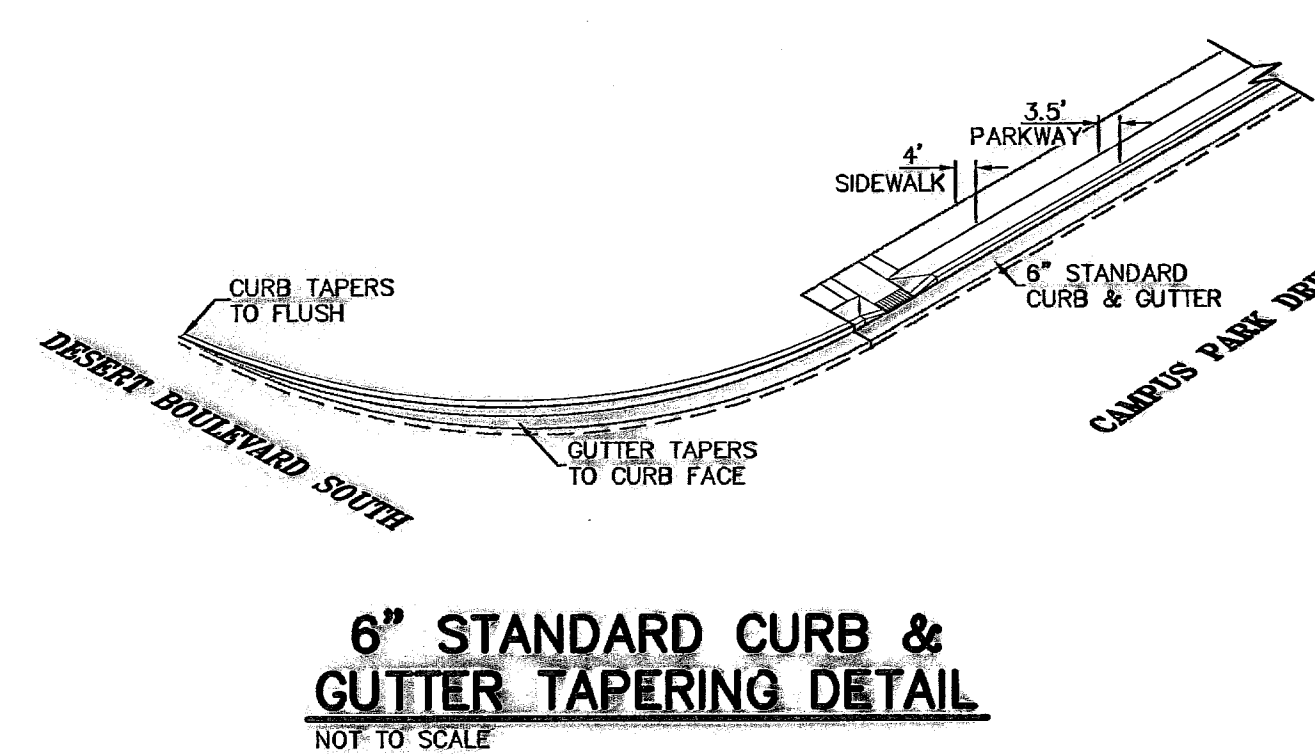
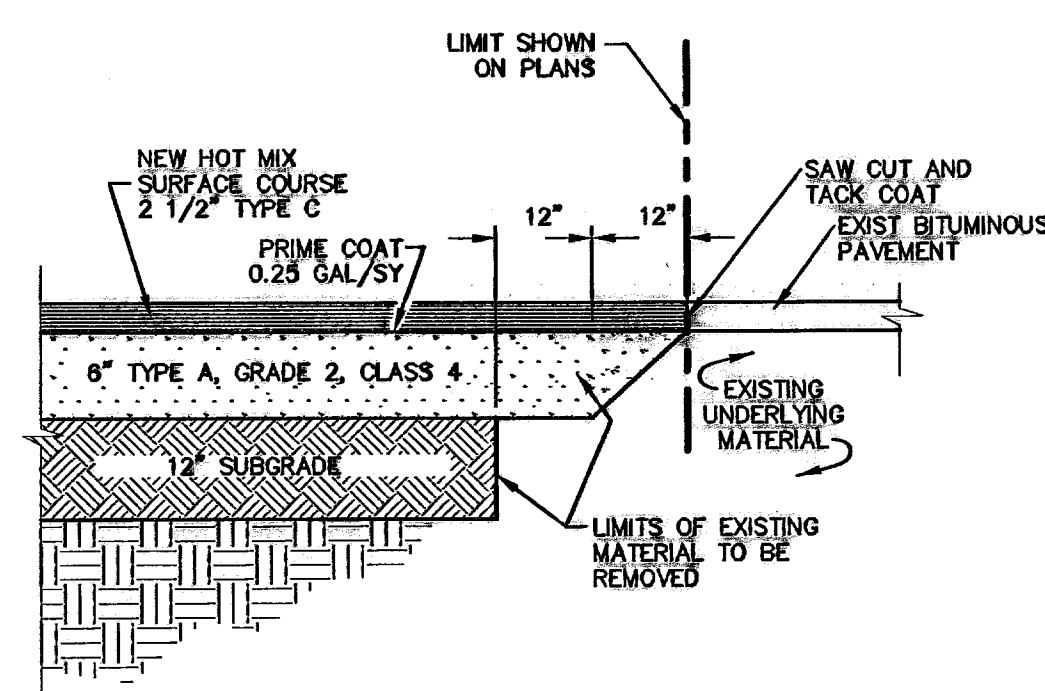
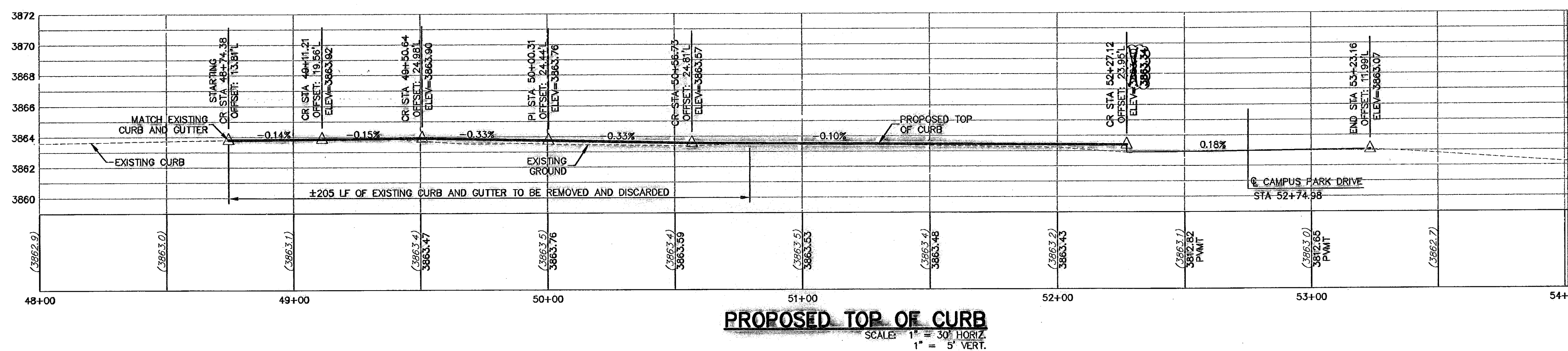
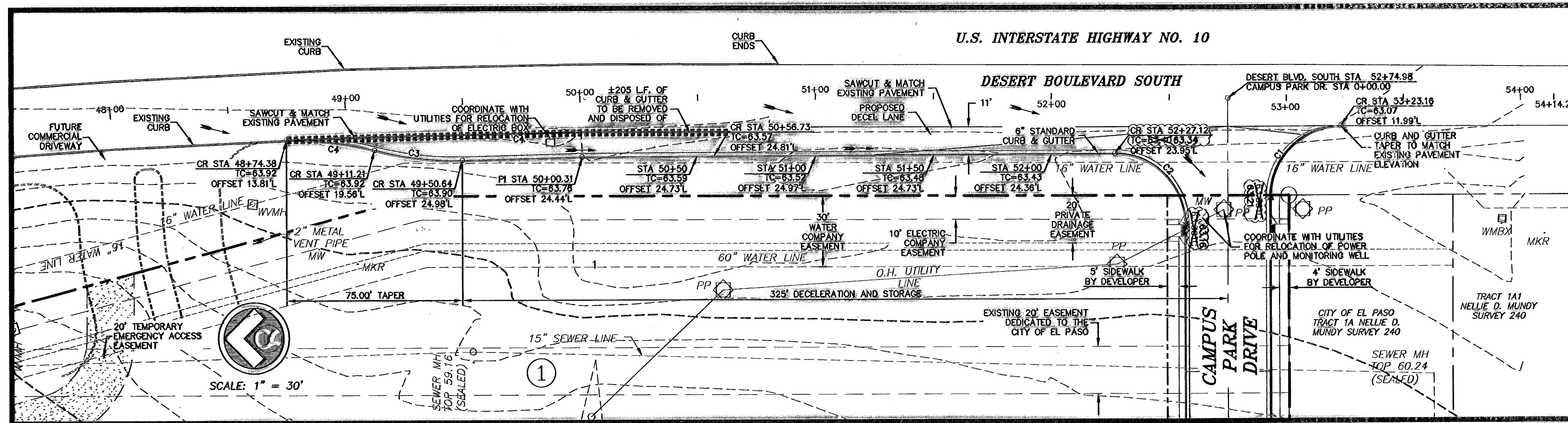
FUTURE

600786
FUTURE CAMPUS PARK UNIT TWO

THESE RECORD DRAWINGS HAVE BEEN PREPARED IN ACCORDANCE WITH THE DOCUMENTATION PROVIDED BY THE DEVELOPER, AS WELL AS INFORMATION GATHERED FROM ON-SITE VISITS AND SURVEY INFORMATION. ACCURACY OF THE INFORMATION PROVIDED BY OTHERS IS NOT WARRANTED BY THIS FIRM.

NOTE:
ALL STATIONING FOR DESERT BOULEVARD SOUTH PER TxDOT RECORD DRAWINGS.

| CURVE TABLE | | | | | |
|-------------|--------|--------|---------|-------|-----------------------|
| CURVE | RADIUS | LENGTH | TANGENT | CHORD | DELTA |
| C1 | 30.00 | 47.30 | 30.17 | 42.55 | N44°50'36"W 90°19'38" |
| C2 | 30.00 | 47.38 | 30.24 | 42.60 | N44°59'18"W 90°27'28" |
| C3 | 139.54 | 37.85 | 19.04 | 37.73 | S68°38'19"W 19°32'27" |
| C4 | 139.50 | 37.90 | 19.07 | 37.78 | N06°39'35"E 19°33'58" |



- LEGEND**
- LOT LINE
 - UTILITY EASEMENT
 - CENTER LINE OF STREET
 - STREET R.O.W.
 - CENTER LINE OF ALIGNMENT
 - 4" ROLLED CURB & GUTTER
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 - (3729.2) EXISTING GRADE
 - TC=08.09 PROPOSED TOP OF CURB ELEVATION
 - PVMT=08.65 PROPOSED PAVEMENT ELEVATION
 - DIRECTION OF RUNOFF FLOW
 - ▲ HIGH POINT
 - ▼ LOW POINT
 - ▲ POINT OF VERTICAL INTERSECTION
 - ⊙ 50' TRANSITION AT INTERSECTION
 - ⊙ PROPOSED CITY MONUMENT
 - ⊙ ACCESSIBLE RAMP
 - 5'x5' PASSING ZONE BY BUILDER
 - PARKWAY VARIES BY BUILDER
 - 4' SIDEWALK (TYP) BY BUILDER

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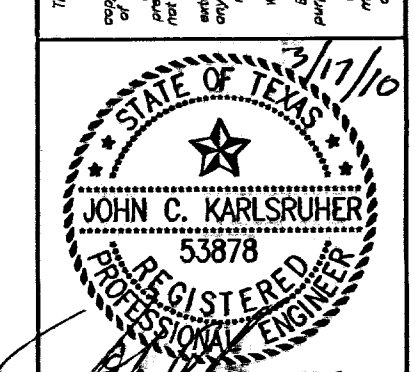
BEFORE YOU DIG - CALL

EL PASO ELECTRIC COMPANY
1-800-530-TESS
544-6300

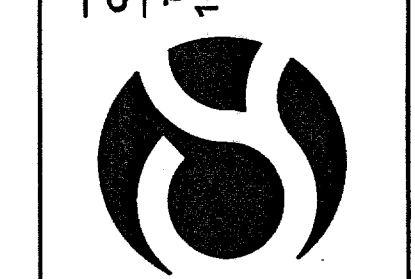
TEXAS GAS SERVICE
1-800-344-8047
775-7414

EL PASO NATURAL GAS CO
1-800-344-8047

TEXAS EXCAVATION SAFETY SYSTEM
1-800-344-8047



csa design group, inc.
Texas Registered Engineering Firm #4897
1845 Northwestern Dr., Ste C
El Paso, Texas 79912
tel (915) 877.4155
fax (915) 877.4334
www.csaengineers.com



CAMP PARK UNIT ONE SUBDIVISION
SHEET TITLE
DECAL LANE DESERT BOULEVARD SOUTH

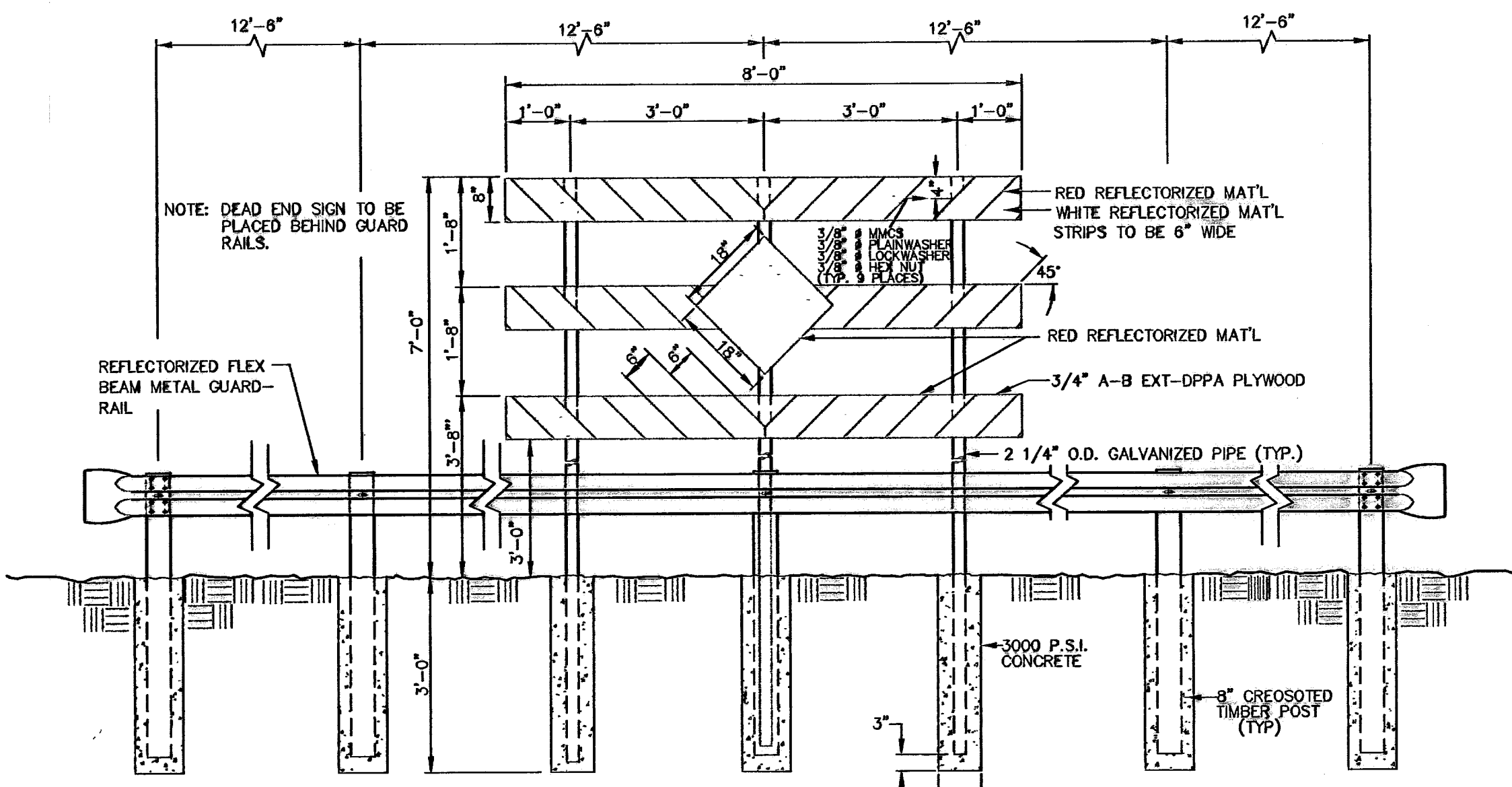
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|-----------|----------|
| DOB | 7008 |
| DESIGN BY | JCK |
| DATE | 12/11/07 |
| SCALE | AS NOTED |
| 16 | |
| 28 | |

TxDOT APPROVED
09/20/07 600786

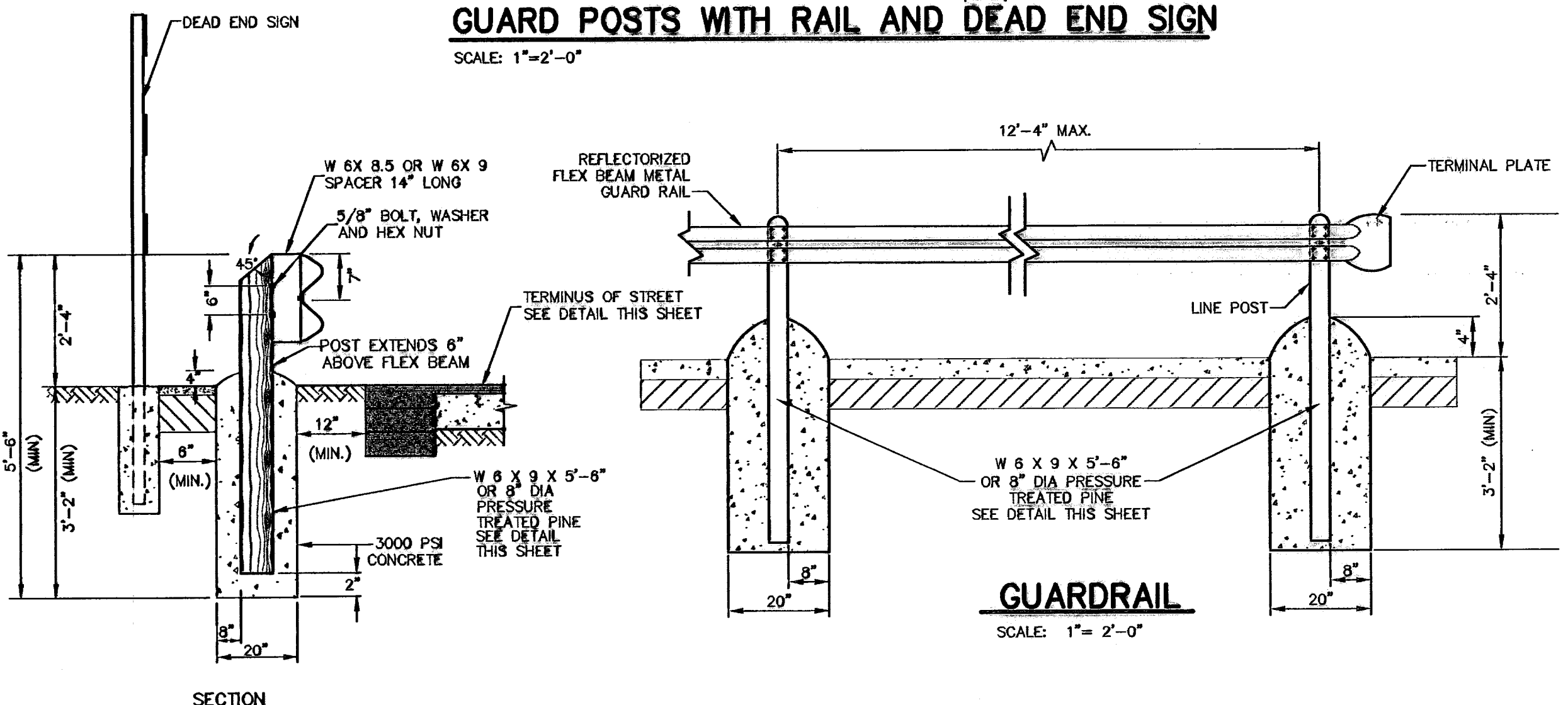
THESE RECORD DRAWINGS HAVE BEEN PREPARED IN ACCORDANCE WITH THE DOCUMENTATION PROVIDED BY THE DEVELOPER, AS WELL AS INFORMATION GATHERED FROM ON-SITE VISITS AND SURVEY INFORMATION. ACCURACY OF THE INFORMATION PROVIDED BY OTHERS IS NOT WARRANTED BY THIS FIRM.

RECORD DRAWING

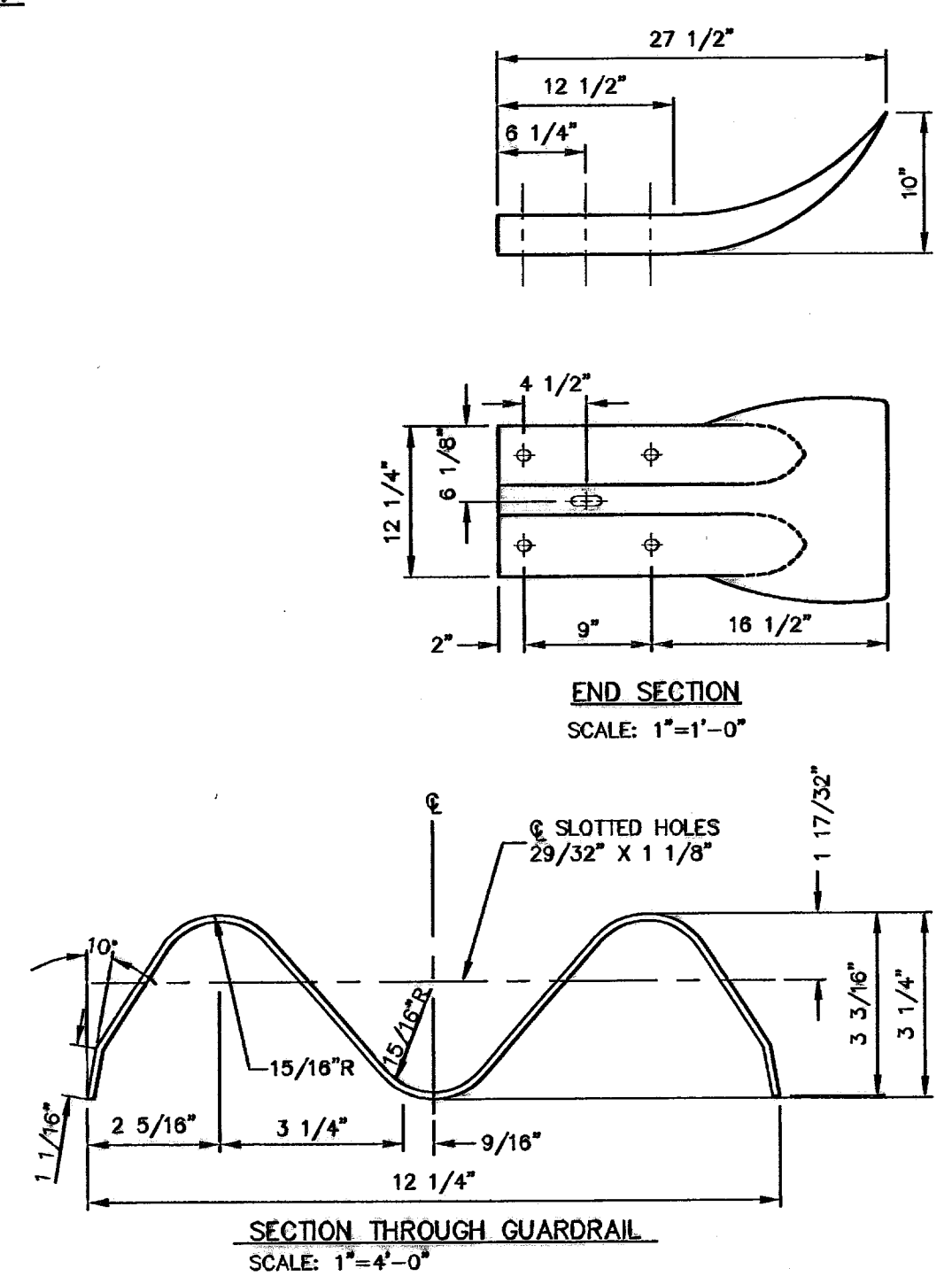
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 JCK
 16



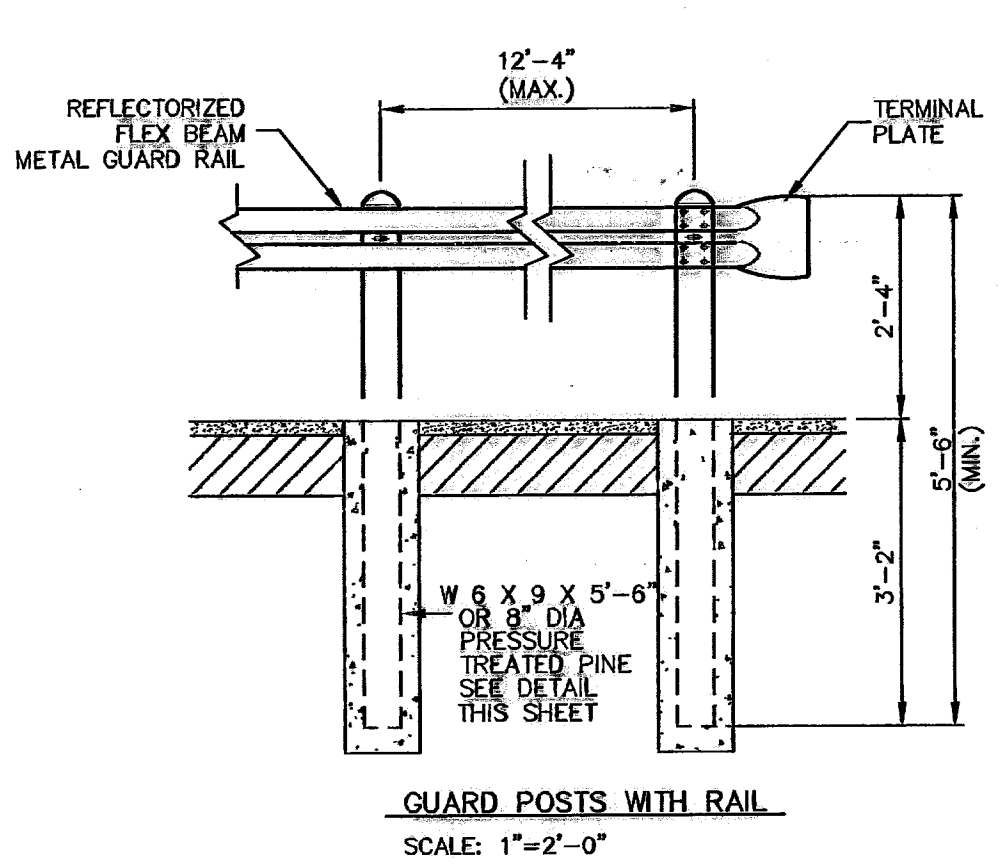
GUARD POSTS WITH RAIL AND DEAD END SIGN
SCALE: 1"=2'-0"



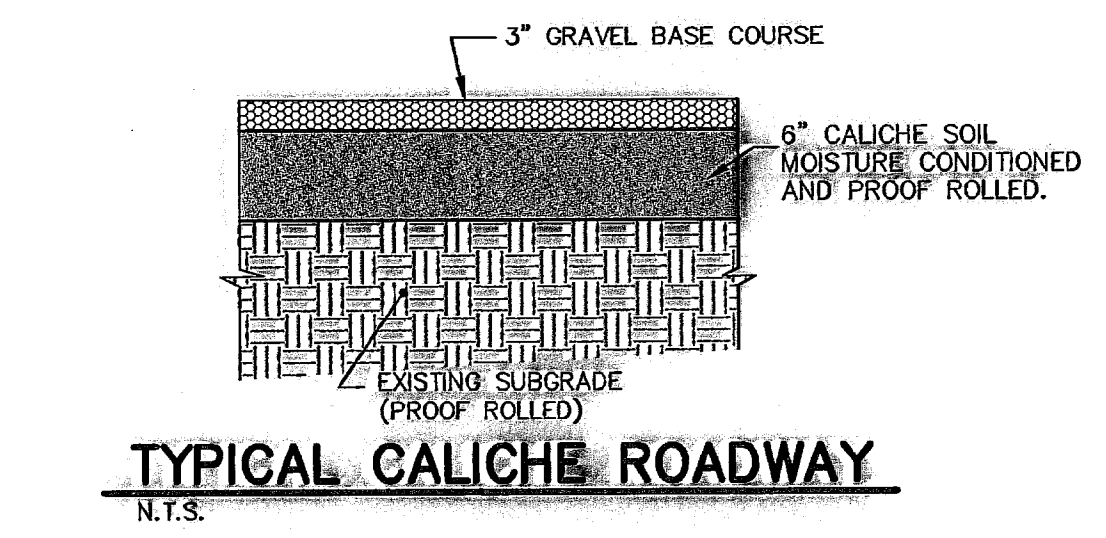
GUARDRAIL
SCALE: 1"=2'-0"



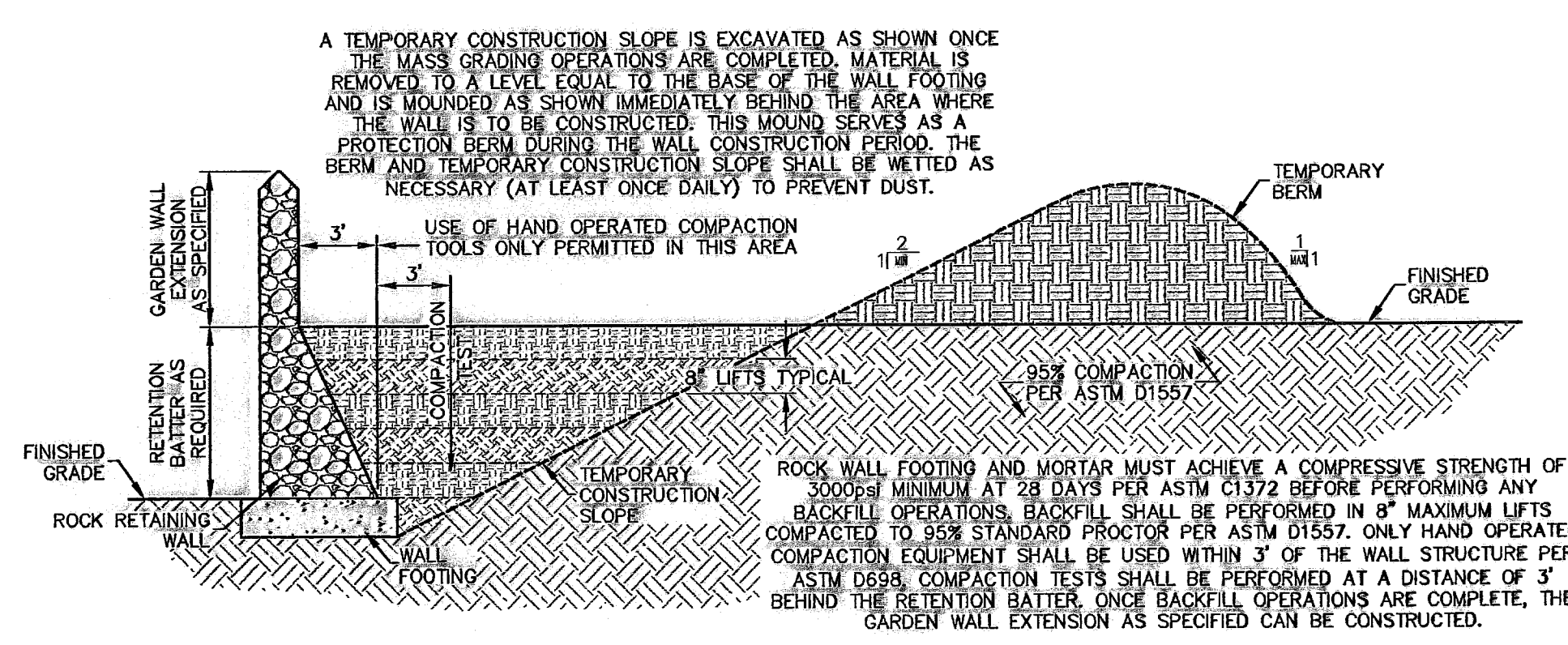
SECTION THROUGH GUARDRAIL
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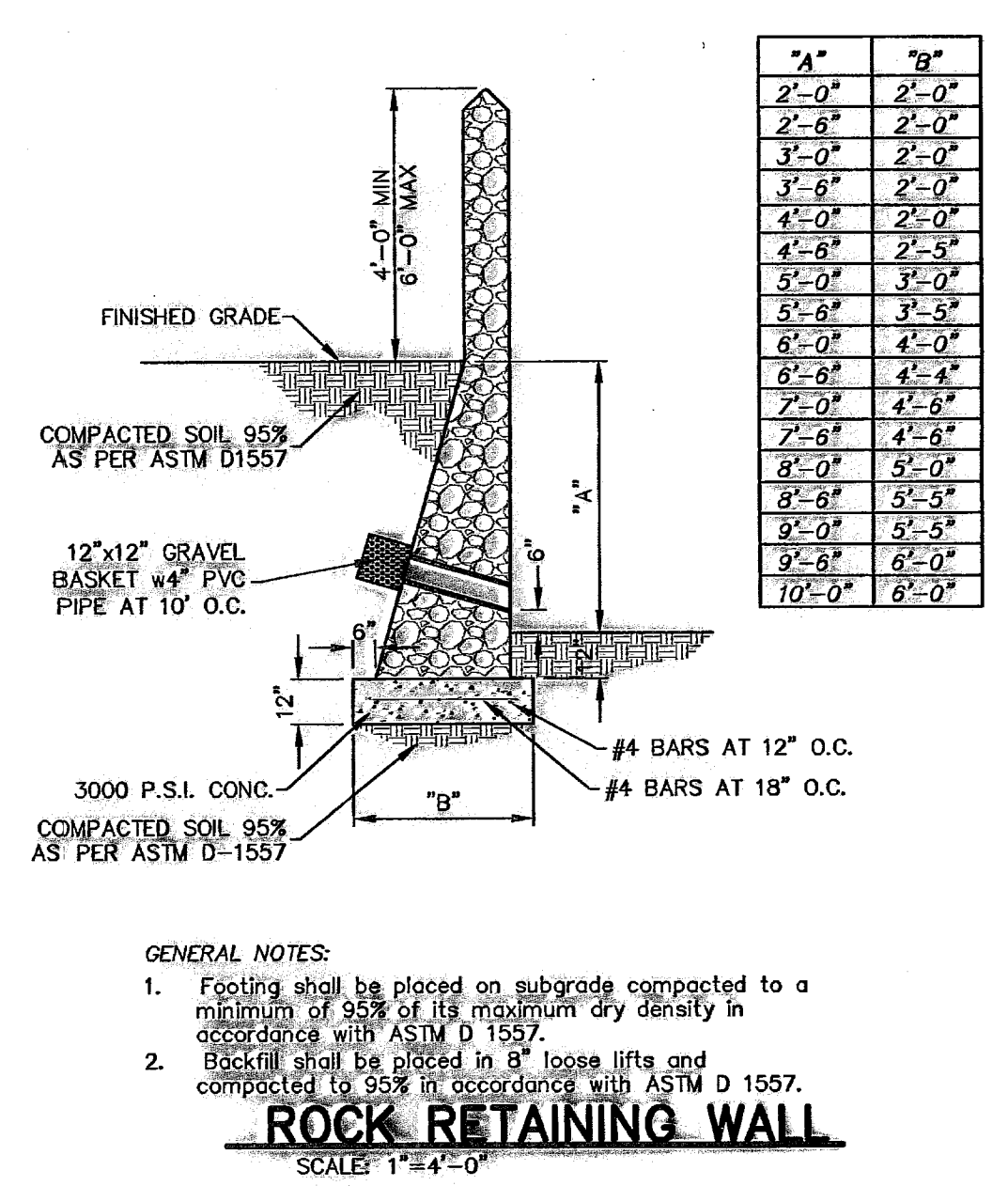
GUARD POSTS WITH RAIL
SCALE: 1"=2'-0"



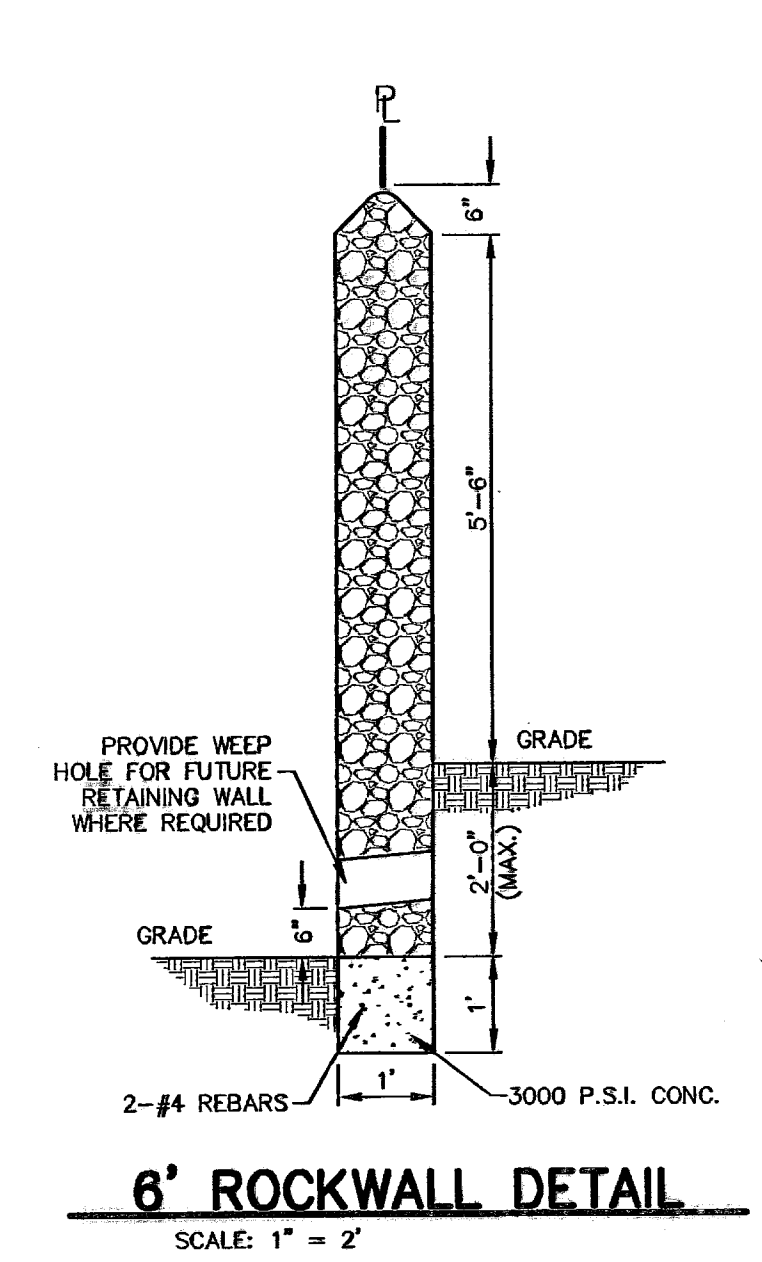
TYPICAL CALICHE ROADWAY
N.T.S.



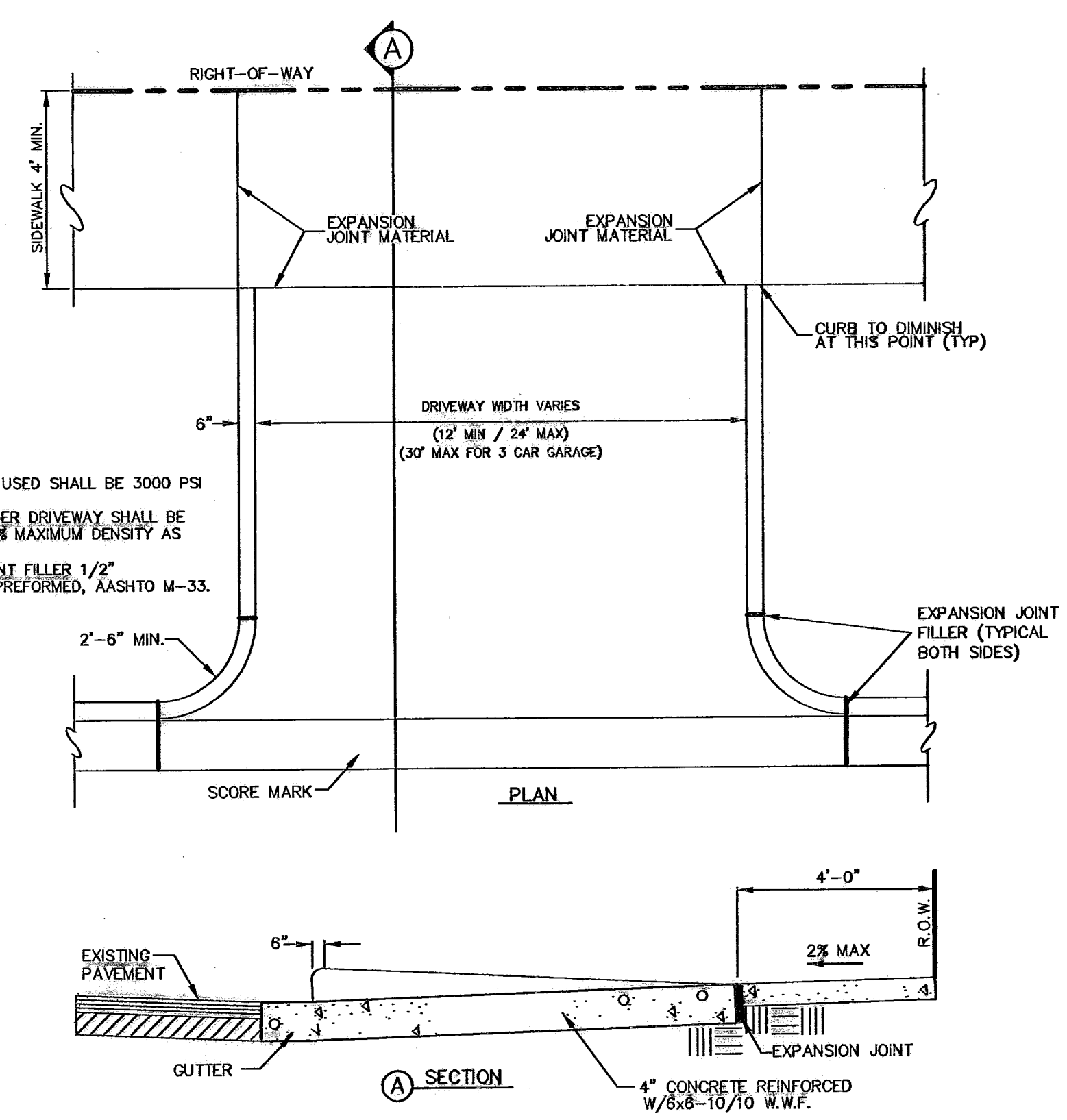
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SCALE: 1"=4'-0"



ROCK RETAINING WALL
SCALE: 1"=4'-0"



6' ROCKWALL DETAIL
SCALE: 1"=2'



RESIDENTIAL DRIVEWAY
SCALE: 1/4"=1'-0"

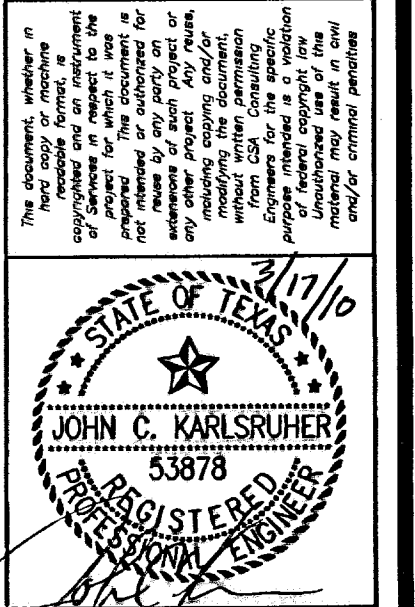
600786

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EL PASO GAS SERVICE
562-8411/562-2003
EMERGENCY HOTLINE
775-7414
EL PASO NATURAL GAS CO.
1-800-334-8847
TEXAS EXCAVATION SAFETY SYSTEM
1-800-344-1577



csa design group, inc.
Texas Registered Engineering Firm F-987
1845 Northwestern Dr. Ste C
El Paso, Texas 79912
tel (915) 877.4155
fax (915) 877.4334
www.csaengineers.com

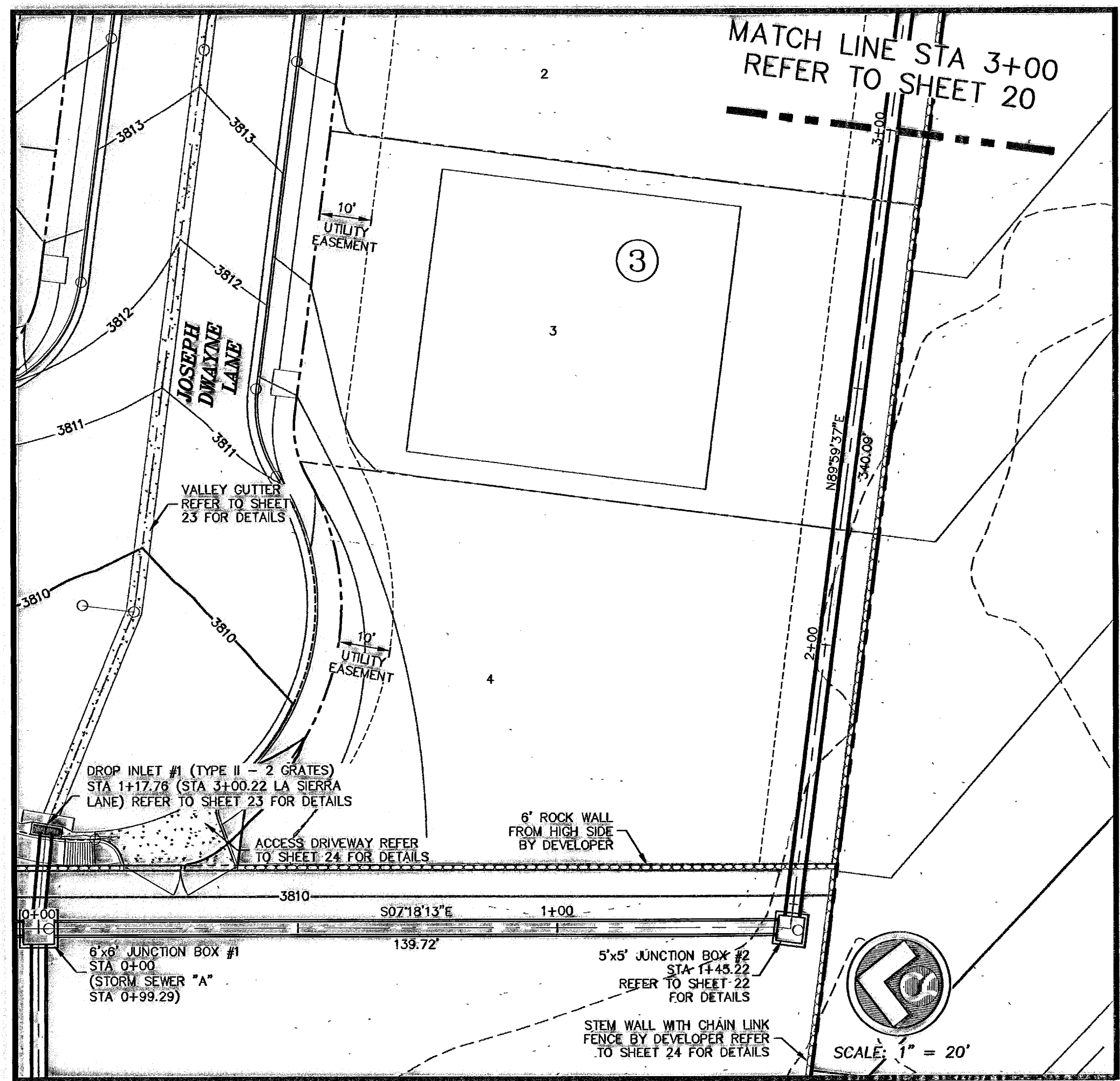
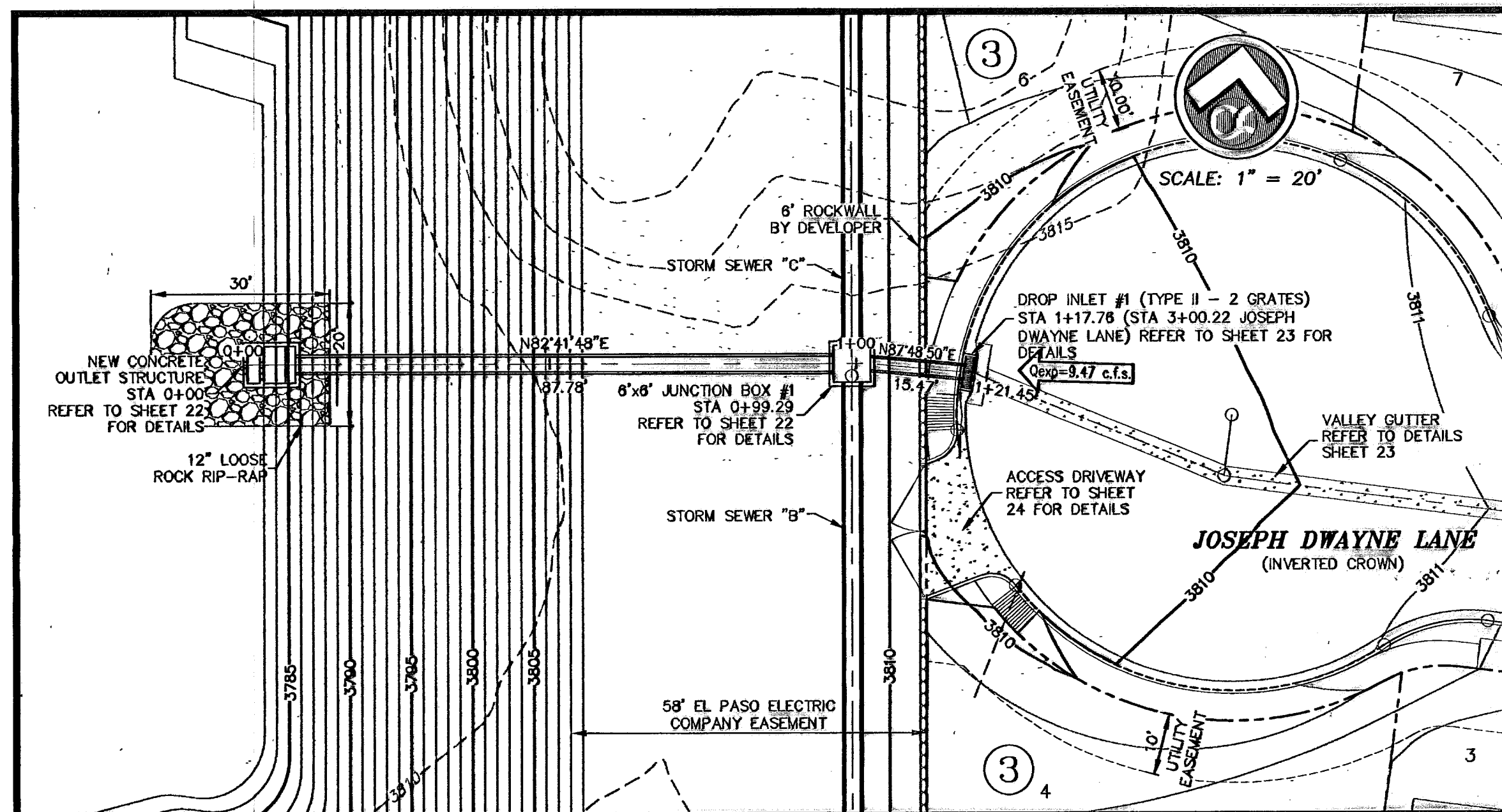


**CAMPUS PARK
UNIT ONE
SUBDIVISION**

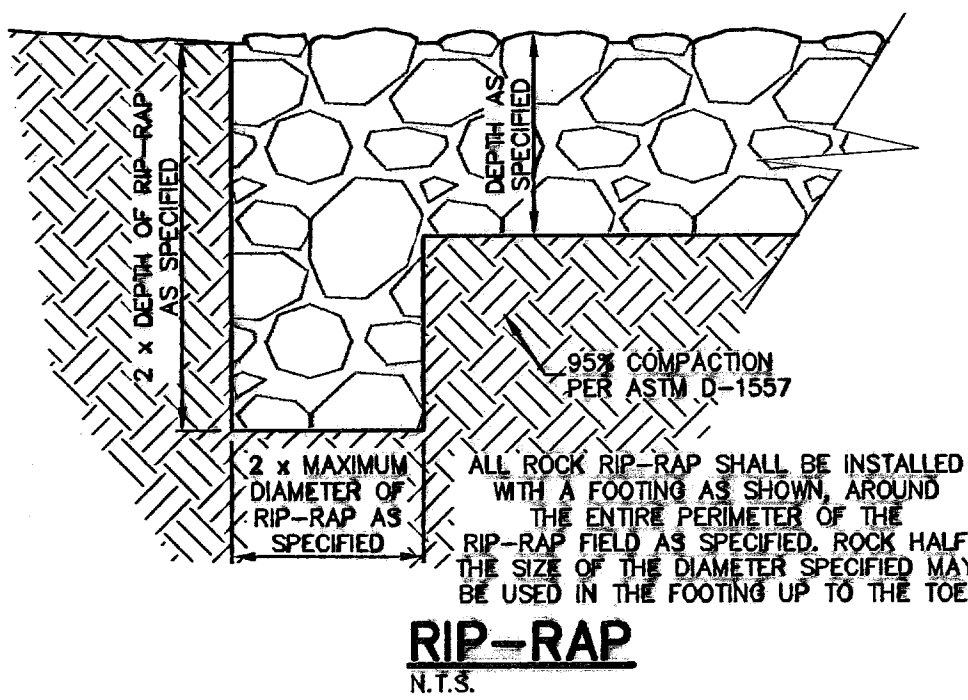
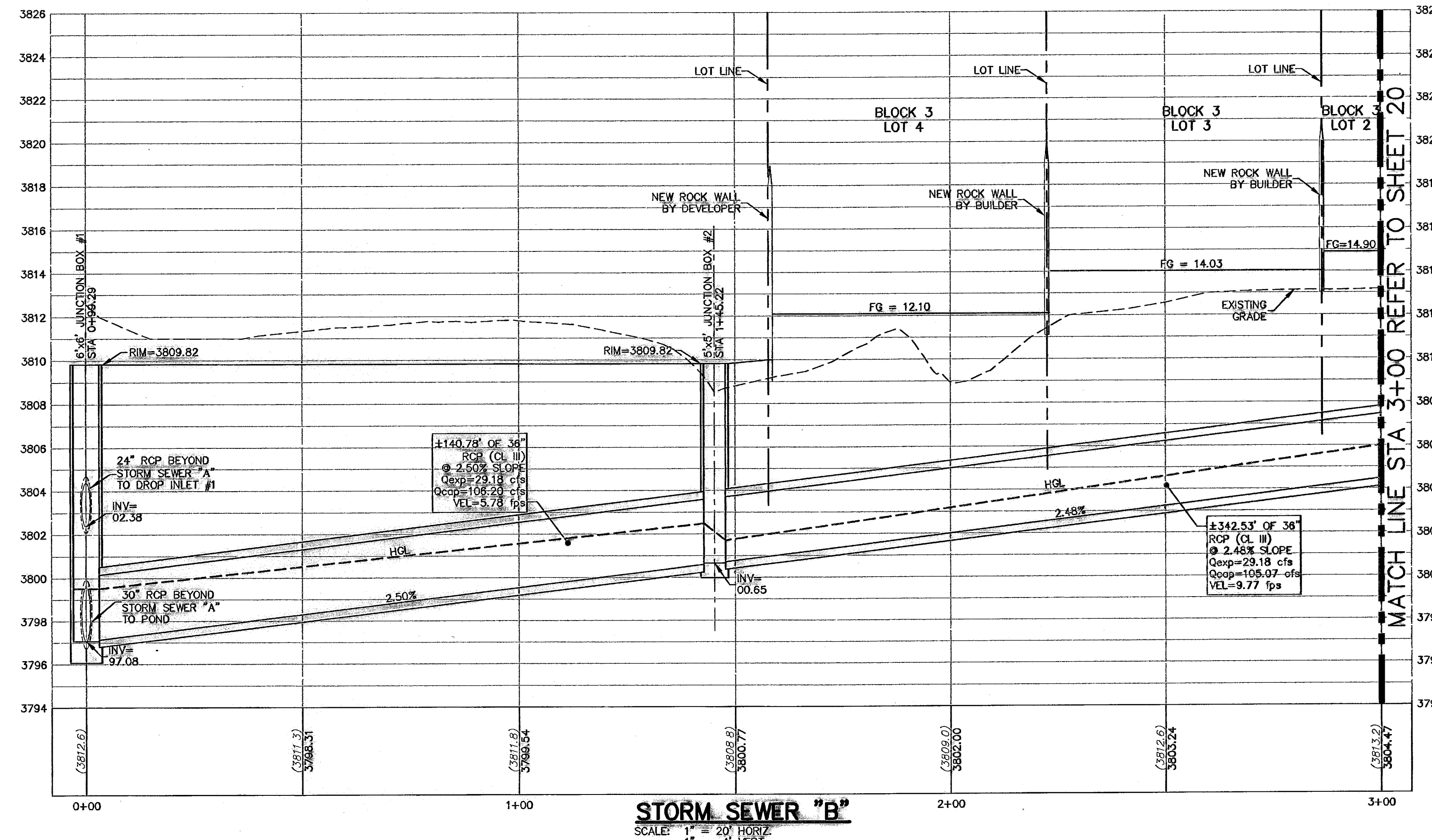
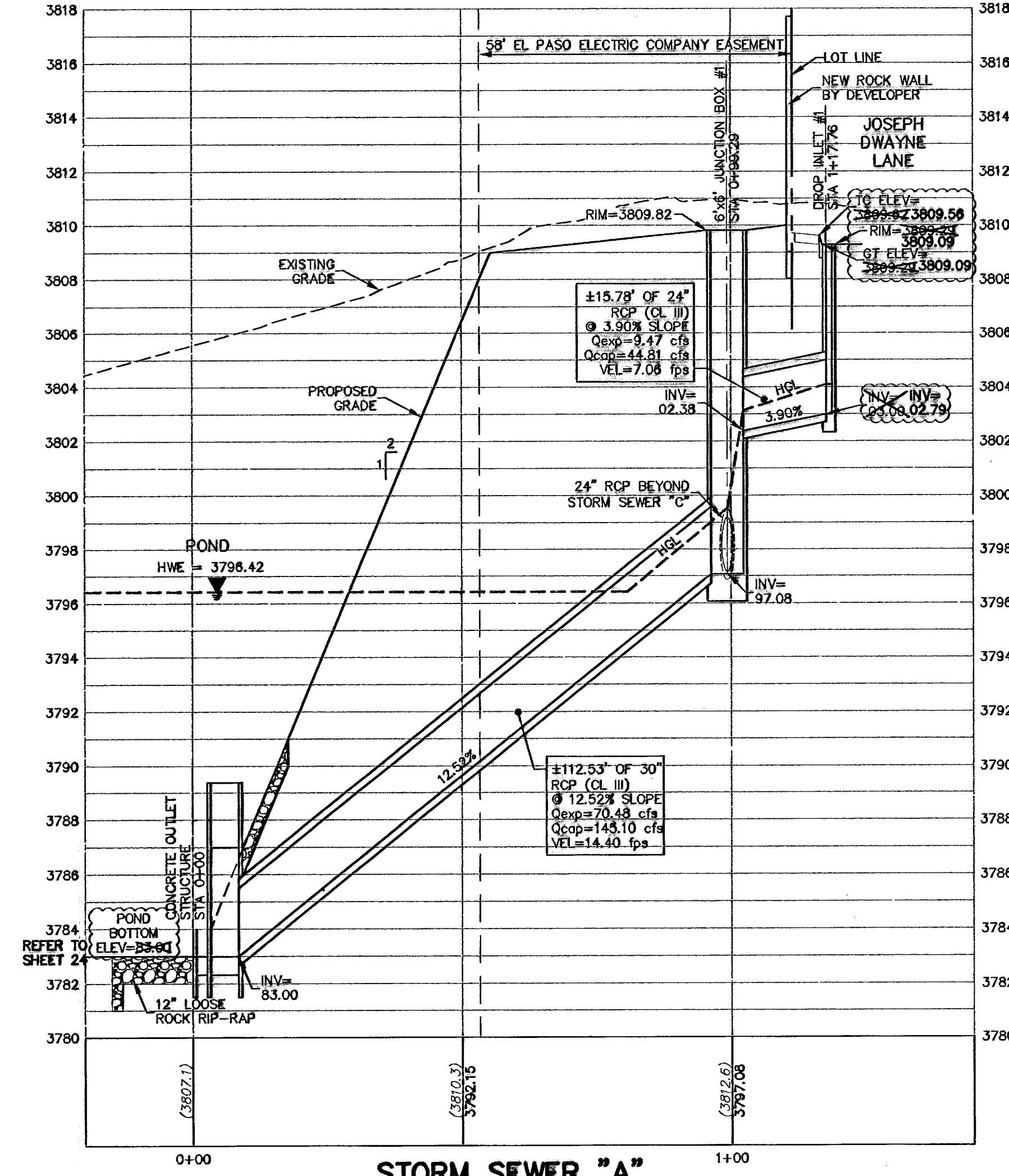
**STANDARD
DETAILS**

| | |
|--------------|----------|
| DOB | 7008 |
| REVISION | 28 |
| DATE | 12/11/07 |
| SCALE | AS NOTED |
| SHEET NO. | 17 |
| TOTAL SHEETS | 28 |

11/16/2010 10:25:28 AM
S:\Projects\2010 Campus Park (Tomball, Comm)\DWG\ASB\2010_17_18 STD Detail.dwg
User: jcarlsruher



STATIONING IS TO THE CENTER OF THE STRUCTURE AT THE CURB LINE UNLESS NOTED OTHERWISE. ALL OTHER STATIONING IS TO THE CENTER OF THE STRUCTURES. BEARINGS AND DISTANCES ARE FOR FIELD LOCATION OF STRUCTURES ONLY. REFER TO PROFILE FOR ACTUAL PIPE LENGTHS.



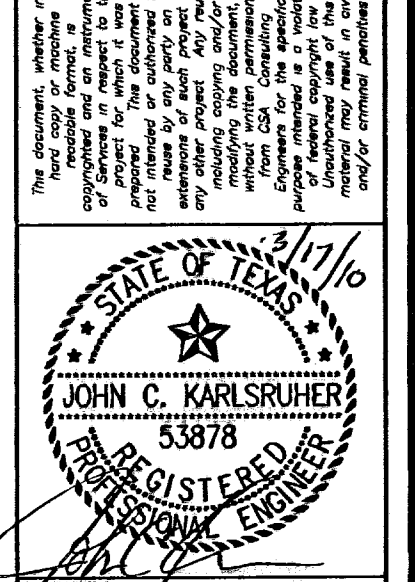
RIP-RAP
N.T.S.

BENCHMARK CITY MONUMENT AT THE CENTERLINE INTERSECTION OF DEL NORTE BOULEVARD AND PASEO ELEVATION = 3886.94 (EL PASO CITY DATUM)

| NO. | DATE | DESCRIPTION | BY |
|-----|----------|---------------------------|-----|
| 6 | 3/7/10 | Revised As-Built Drawings | JCK |
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PDS (WATER & SEWER)
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1842 Northwest Dr. Ste C
El Paso, Texas 79912
Tel (915) 877-4155
Fax (915) 877-4334
www.csaengineering.com

CAMPUS PARK UNIT ONE SUBDIVISION
SHEET TITLE

STORM SEWER PLAN & PROFILE

008 7008
09 - EC - GB
JCK AS NOTED

19
28

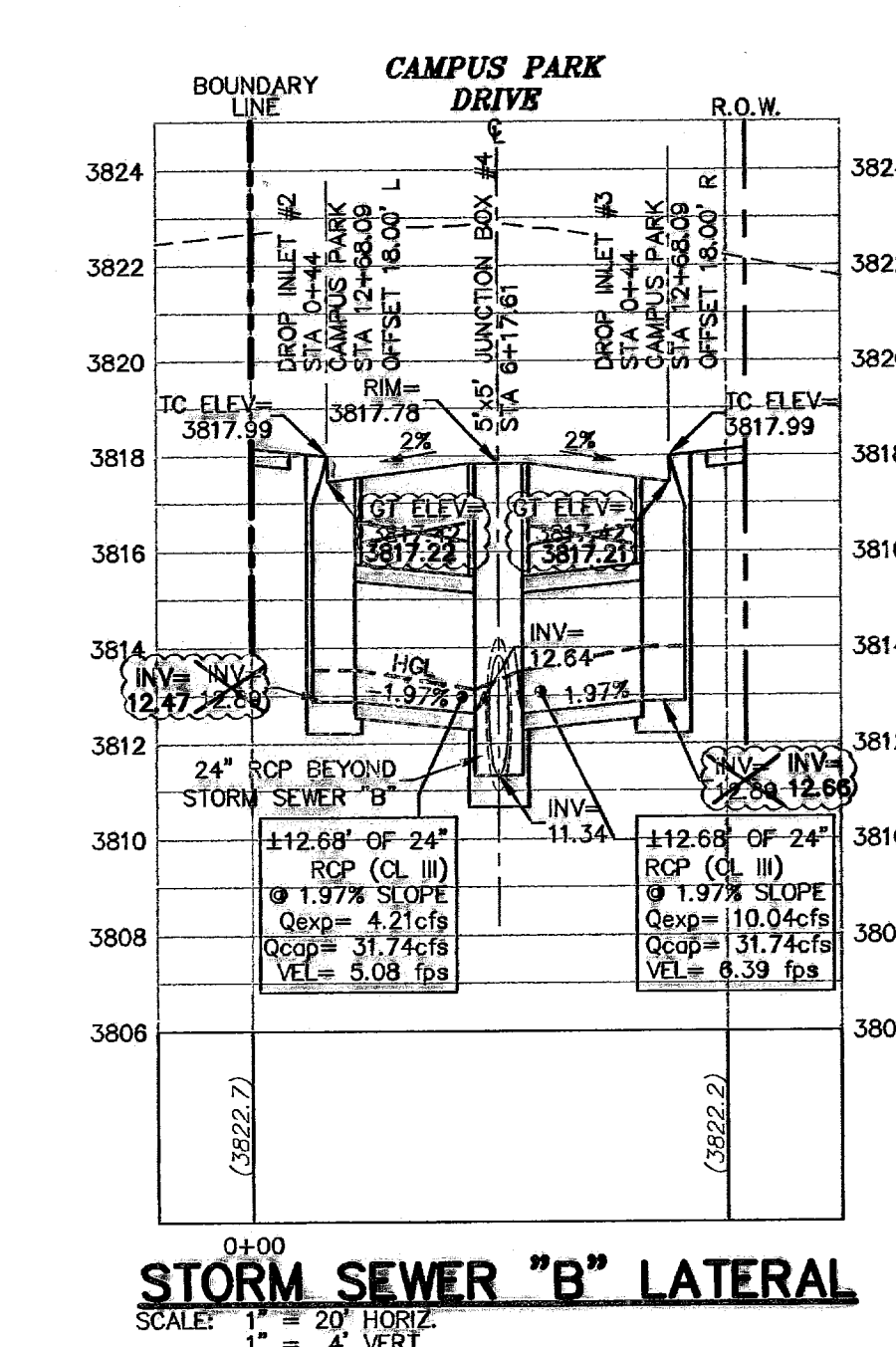
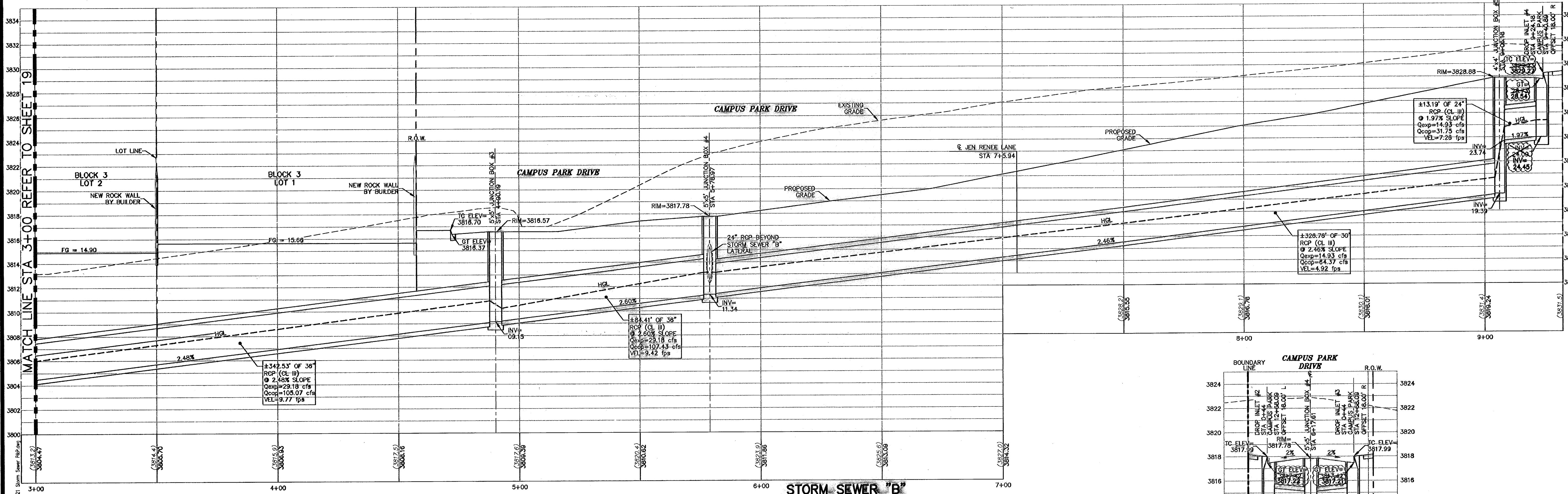
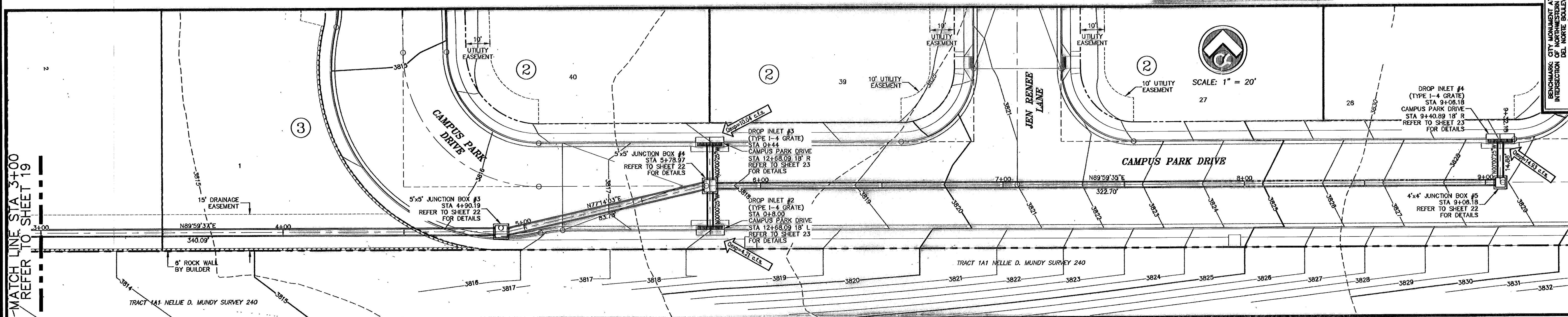
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600786

RECORD DRAWING

10/16/2010 2:25pm (Transmittal Count)\\SD1\ALBERT\BILLS\JCK\04\03\01\10-11\Storm Sewer Plan.dwg

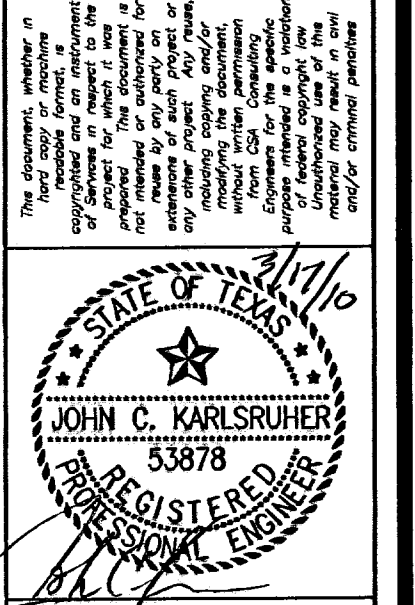
STATIONING IS TO THE CENTER OF THE STRUCTURE AT THE CURB LINE UNLESS NOTED OTHERWISE. ALL OTHER STATIONING IS TO THE CENTER OF THE STRUCTURES. BEARINGS AND DISTANCES ARE FOR FIELD LOCATION OF STRUCTURES ONLY. REFER TO PROFILE FOR ACTUAL PIPE LENGTHS.



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 Texas Registered Engineering Firm F-4007
 1945 Northwest Dr. Ste C
 El Paso, Texas 79912
 tel [915] 877 4155
 fax [915] 877 4334
 www.csaengineers.com



CAMPUS PARK
 UNIT ONE
 SUBDIVISION
 SHEET TITLE

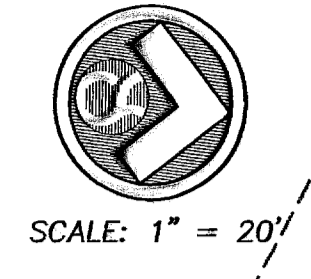
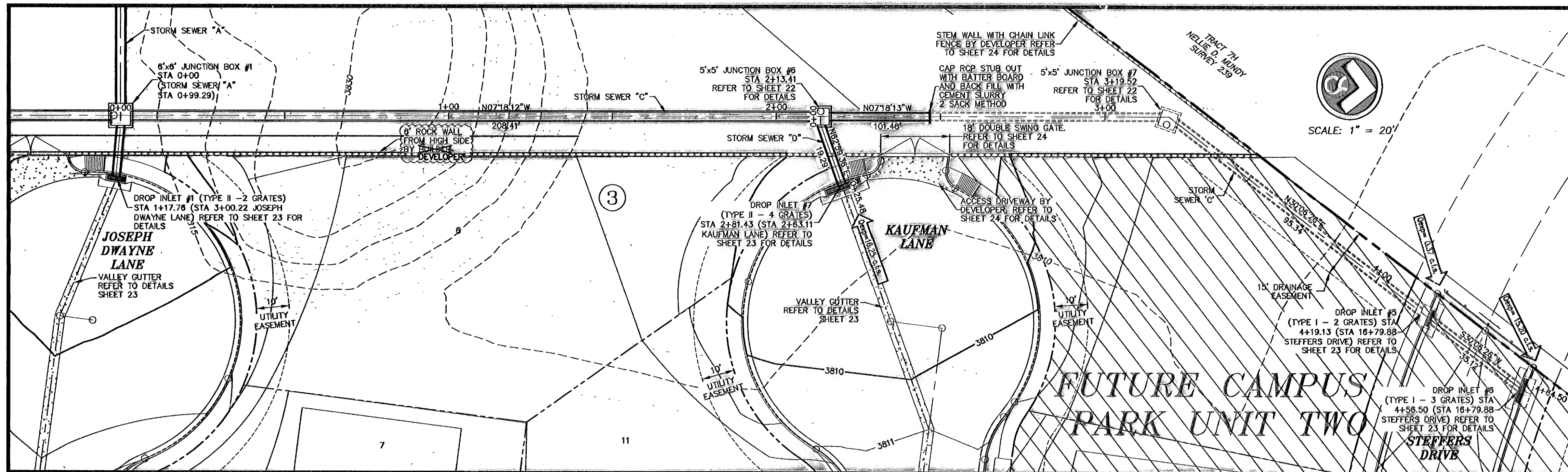
STORM SEWER PLAN & PROFILE

| | |
|----------|----------|
| DOB | 7008 |
| REVISION | 48 1/4" |
| DATE | 12/11/07 |
| SCALE | AS NOTED |

20
 28

600786
 RECORD DRAWING

12/11/07 10:58 AM
 S:\Data\2007\Campus Park (Final\Drawings\Storm Sewer\2007-12-11\20-21 Storm Sewer RCP.dwg)
 JCK



SCALE: 1" = 20'

STATIONING IS TO THE CENTER OF THE STRUCTURE AT THE CURB LINE UNLESS NOTED OTHERWISE. ALL OTHER STATIONING IS TO THE CENTER OF THE STRUCTURES. BEARINGS AND DISTANCES ARE FOR FIELD LOCATION OF STRUCTURES ONLY. REFER TO PROFILE FOR ACTUAL PIPE LENGTHS.

BENCHMARK: CITY MONUMENT AT THE CENTERLINE INTERSECTION DEL NORTE BOULEVARD AND PASO ELEVATION = 3868.84 (EL. PASO CITY DATUM)

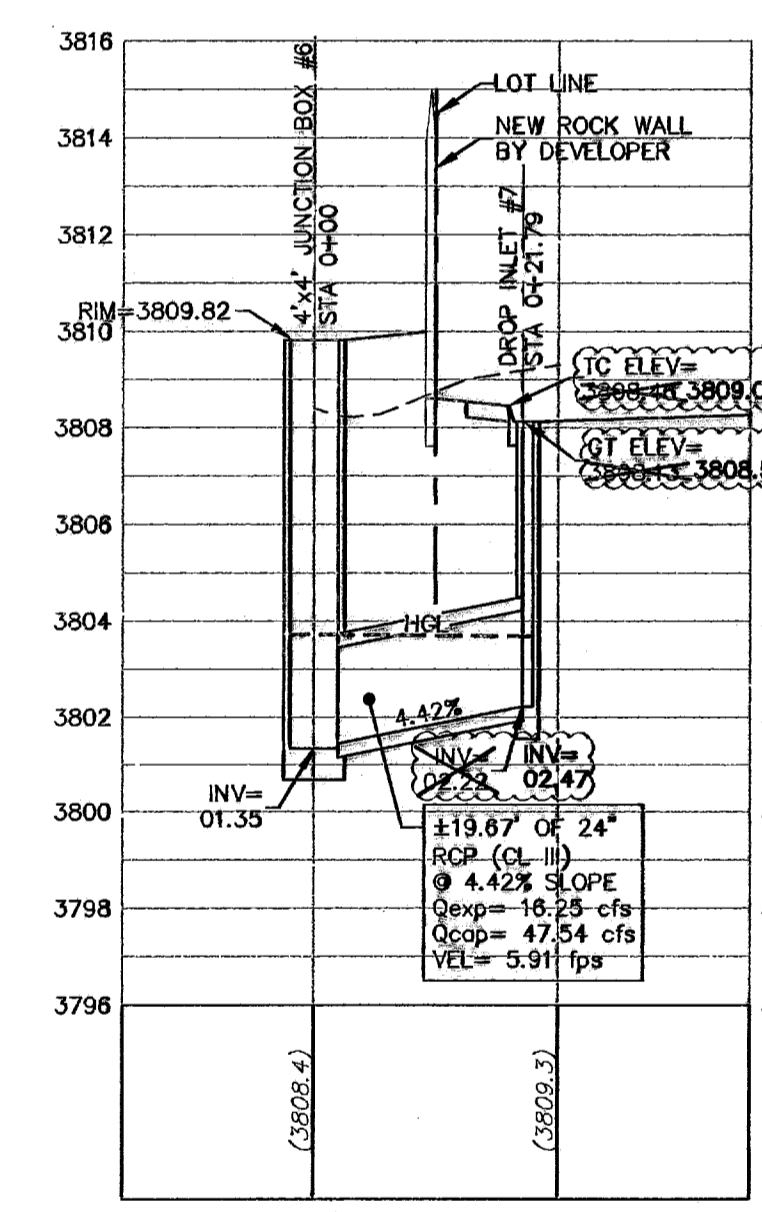
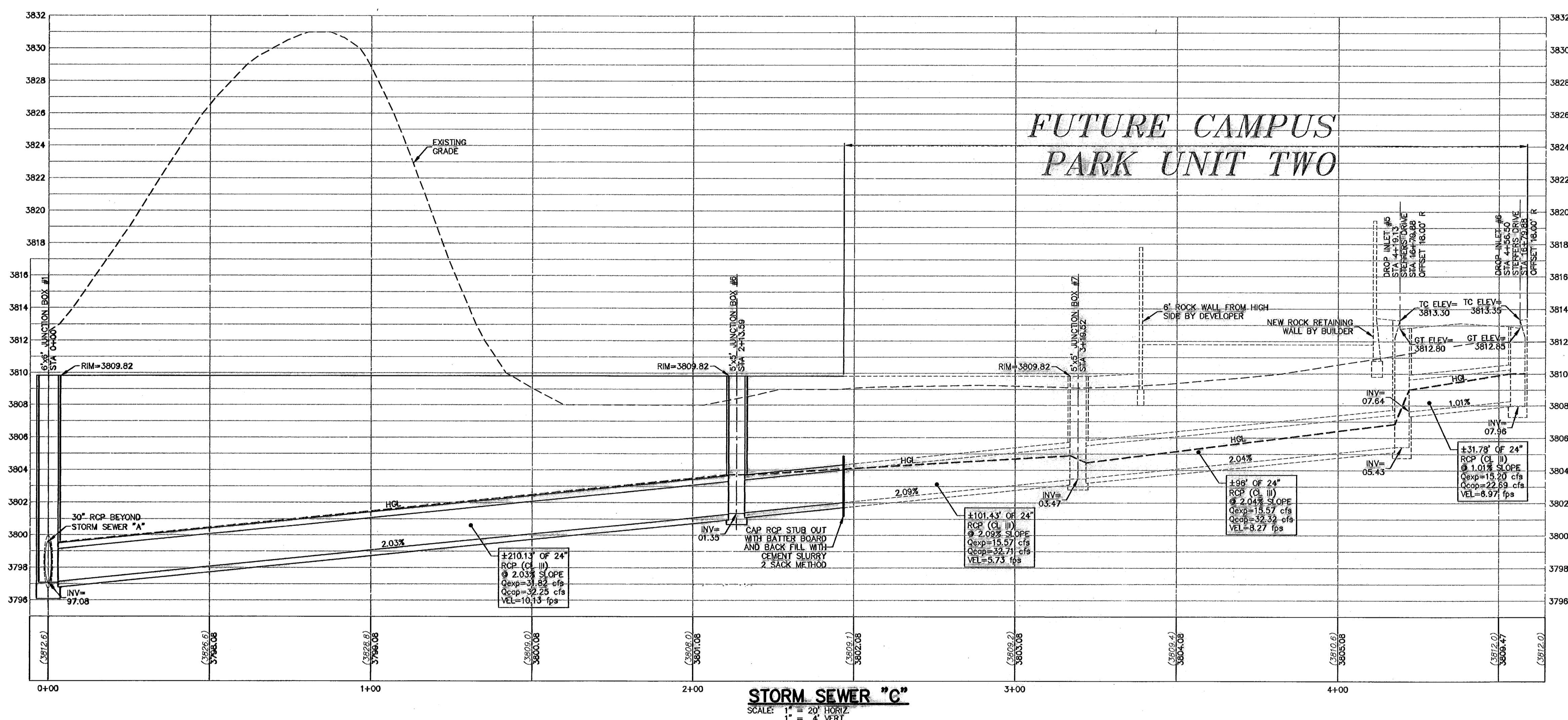
| NO. | DATE | DESCRIPTION | BY |
|-----|----------|---------------------------|-----|
| 6 | 3/17/10 | Revised As-Built Drawings | JCK |
| 5 | 9/14/08 | Revised As-Built Drawings | JCK |
| 4 | 9/26/08 | As-Built Drawings | JCK |
| 3 | 2/14/08 | Final Submittal | JCK |
| 2 | 1/28/08 | 2nd City Submittal | JCK |
| 1 | 11/11/07 | 1st City Submittal | JCK |

WARNING!
BEFORE YOU DIG CONTRACTOR SHALL FIELD LOCATE ALL EXISTING UNDERGROUND IMPROVEMENTS IN PROJECT AREA

BEFORE YOU DIG - CALL

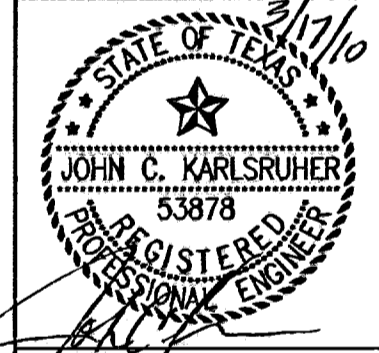
EL PASO ELECTRIC COMPANY
843-2720
44-8330
562-8411/862-2003
1-800-762-TESS
1-800-334-8047
1-800-344-8377

EL PASO GAS SERVICE
EMERGENCY HOTLINE
PSB (WATER & SEWER)
EL PASO WATERWORKS CO.
TEXAS EXCAVATION SAFETY SYSTEM



STORM SEWER "D"
SCALE: 1" = 20' HORIZ.
1" = 4' VERT.

May 13, 2010 - 2:55pm
 S:\Data\2010\Campus Park (Final\Drawings)\S01 AS-BUILT\AS-BUILT\18-21 Storm Sewer Plan.dwg
 mwood



csa design group, inc.
Texas Registered Engineering Firm E-406
1845 Northwestern Dr. Ste C
El Paso, Texas 79912
Tel (915) 877 4154
Fax (915) 877 4334
www.csaengineers.com



CAMPUS PARK
UNIT ONE
SUBDIVISION
SHEET TITLE

STORM SEWER PLAN & PROFILE

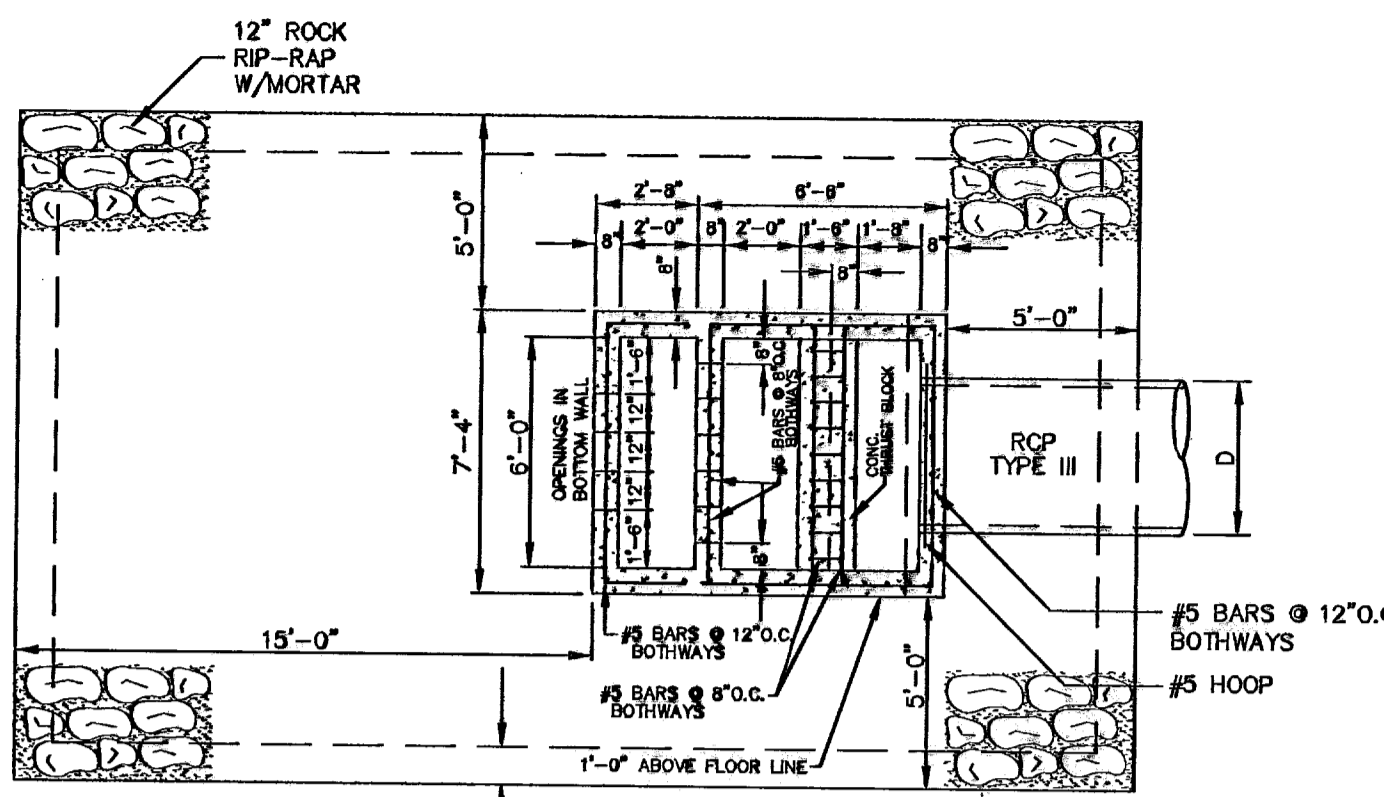
| | |
|-------------|----------|
| DOB | 7008 |
| DESIGNED BY | JR JR |
| DRAWN BY | 12/11/07 |
| CHECKED BY | DATE |
| DATE | AS NOTED |

600786

THESE RECORD DRAWINGS HAVE BEEN PREPARED IN ACCORDANCE WITH THE DOCUMENTATION PROVIDED BY THE DEVELOPER, AS WELL AS INFORMATION GATHERED FROM ON-SITE VISITS AND SURVEY INFORMATION. ACCURACY OF THE INFORMATION PROVIDED BY OTHERS IS NOT WARRANTED BY THIS FIRM.

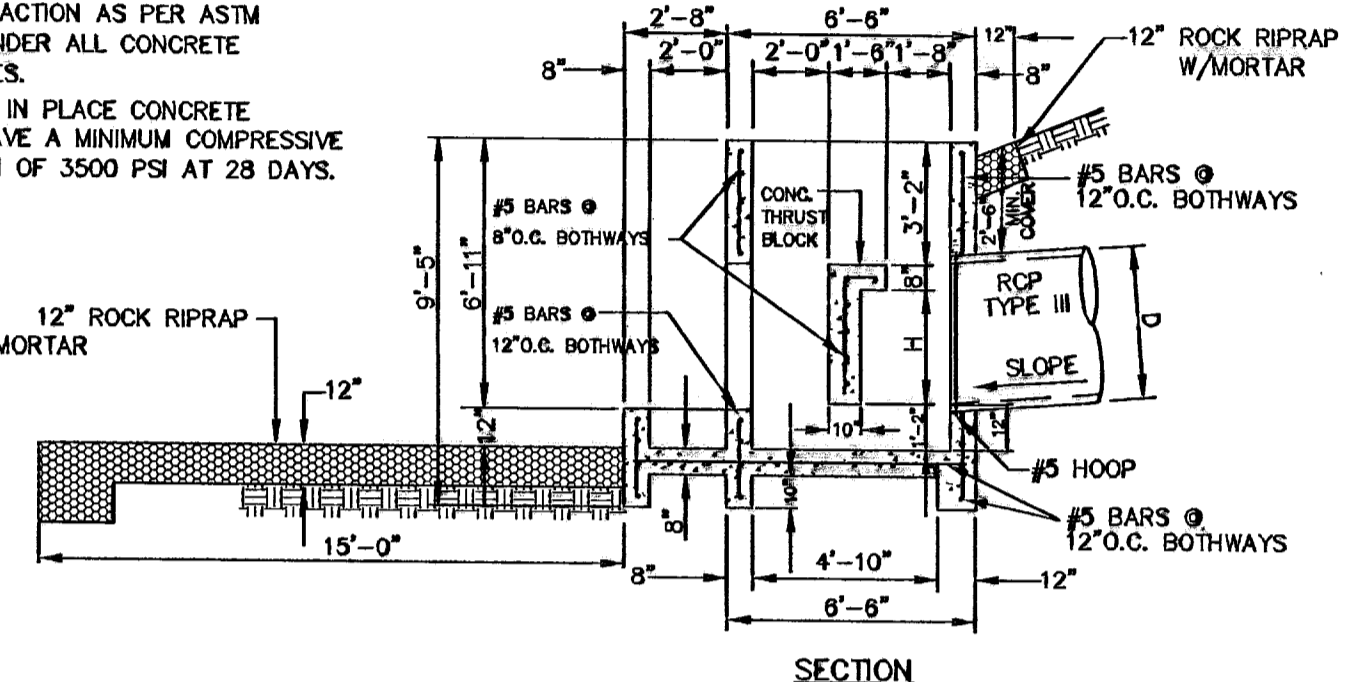
RECORD DRAWING

| DIAMETER | HEIGHT |
|----------|--------|
| 24" RCP | 1'-11" |



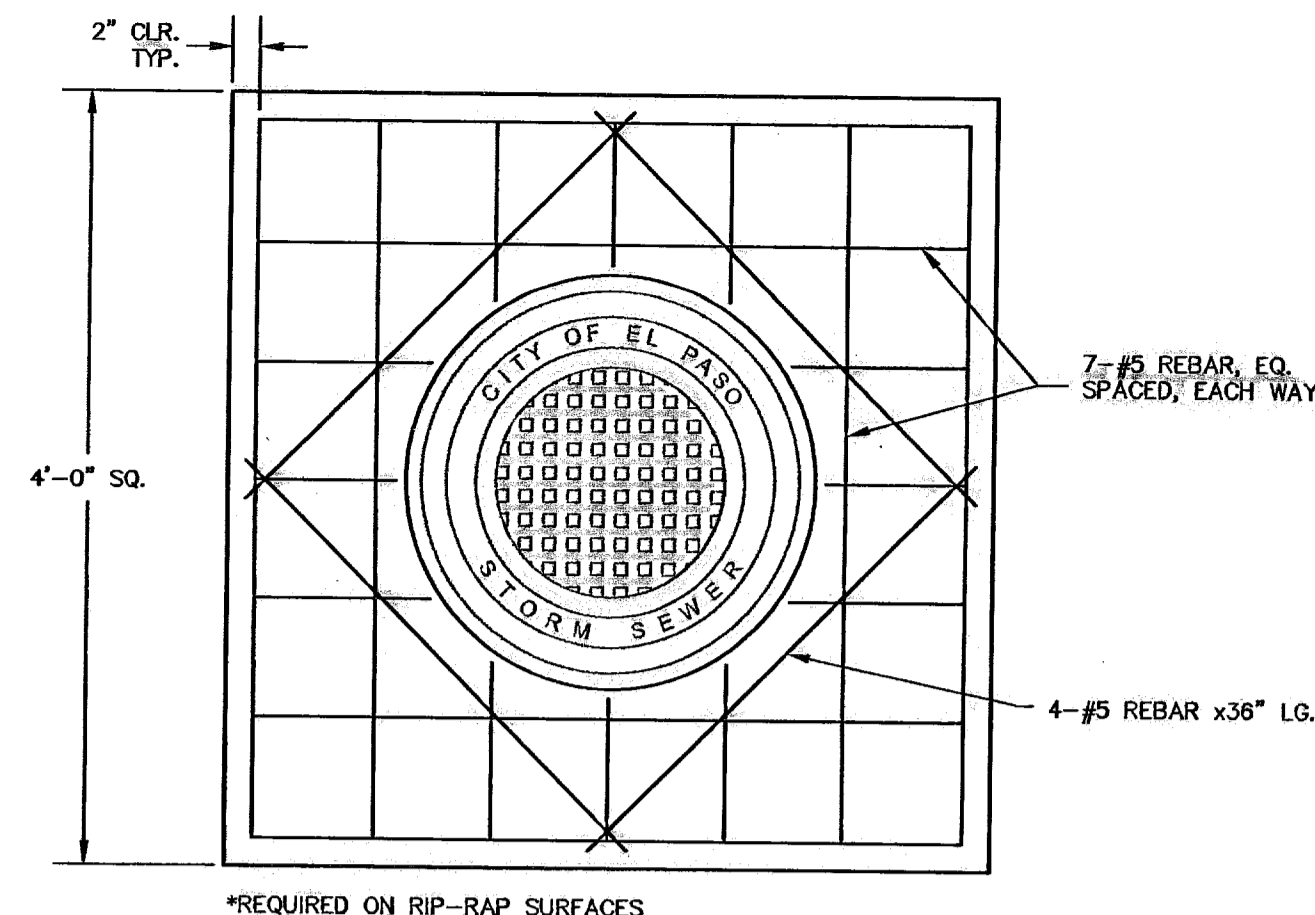
CONCRETE OUTLET STRUCTURE DETAIL
SCALE: 1"=3'-0"

NOTE:
1. 95% COMPACTION AS PER ASTM D-1557 UNDER ALL CONCRETE STRUCTURES.
2. ALL CAST IN PLACE CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3500 PSI AT 28 DAYS.

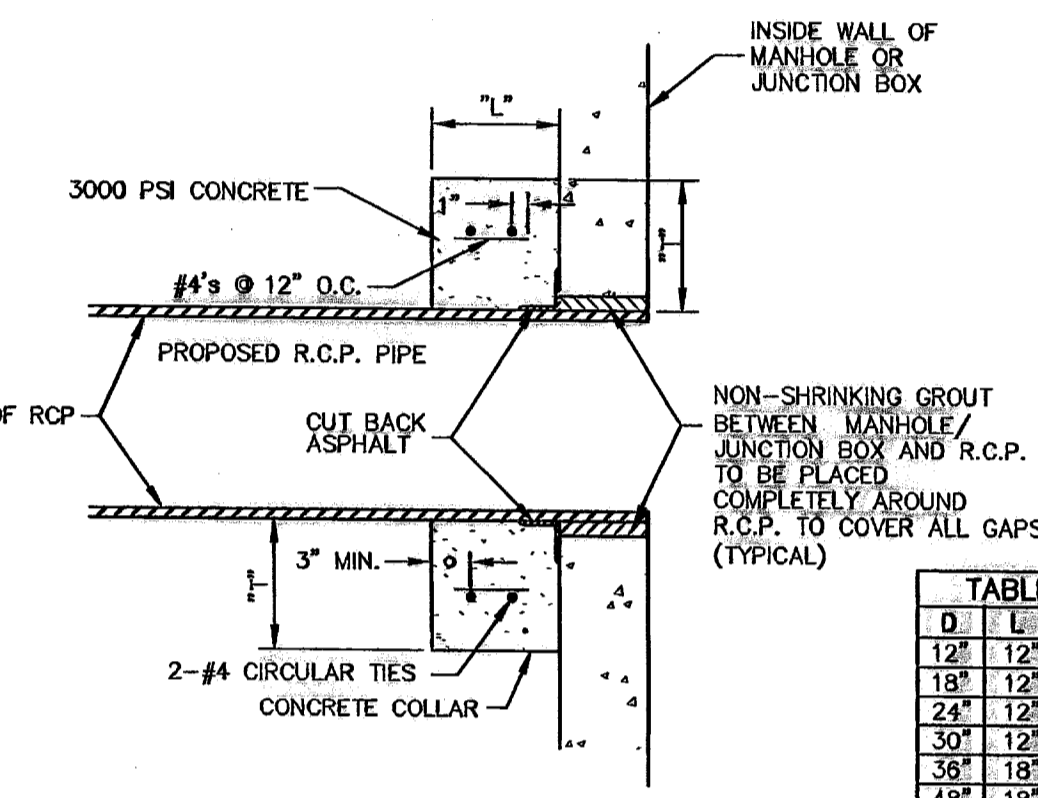


PLAN

SECTION

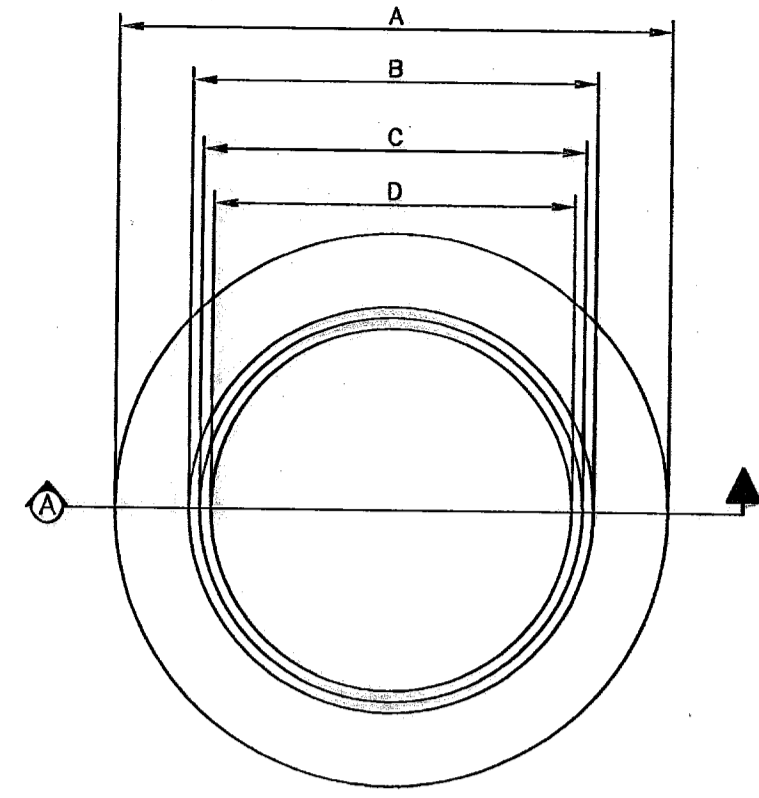


MANHOLE CONCRETE COLLAR DETAIL
SCALE: 1"=1'-0"

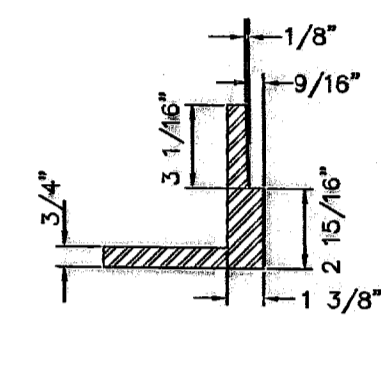


CONNECTION AT JUNCTION BOXES AND MANHOLES
N.T.S.

| D | L | T |
|-----|-----|-----|
| 12" | 12" | 12" |
| 18" | 12" | 12" |
| 24" | 12" | 12" |
| 30" | 12" | 12" |
| 36" | 18" | 18" |
| 48" | 18" | 18" |



TOP VIEW
SCALE: 1"=1'

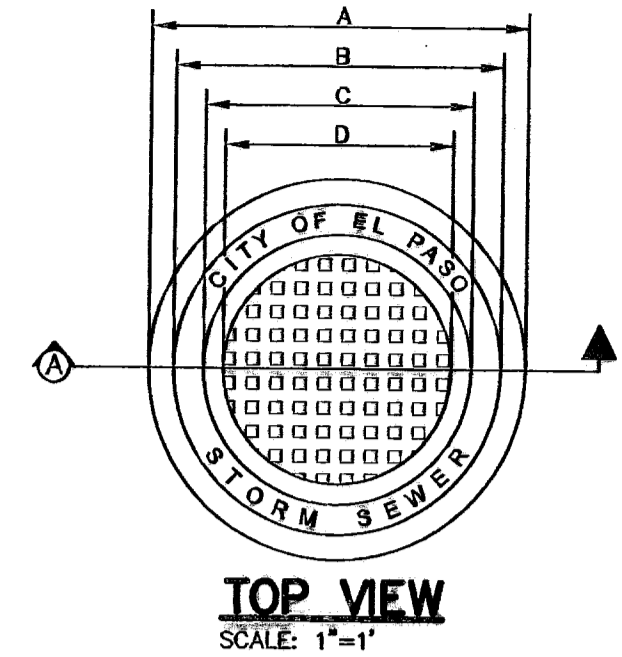


DETAIL
SCALE: 1"=1'

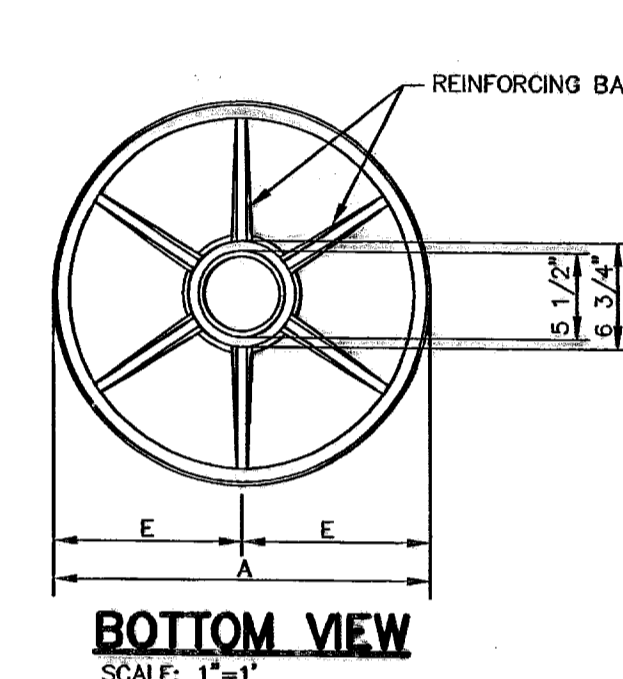
NOTE:
1. MATCHING SURFACES MARKED "MF" TO BE MACHINE FINISHED OF ANY IRREGULARITIES THAT WOULD PREVENT A SNUG FIT.
2. CASTING TO BE SMOOTH AND VOID OF AIR HOLES.

| MANHOLE RING | 48" MANHOLE | 72" MANHOLE |
|--------------|-------------|-------------|
| WEIGHT | 165 lbs | 225 lbs |
| A | 2'-10 1/2" | 3'-6" |
| B | 2'-1 1/4" | 2'-8 3/4" |
| C | 1'-11 7/8" | 2'-7 3/8" |
| D | 1'-10 1/2" | 2'-8" |

MANHOLE RING
SCALE: AS NOTED



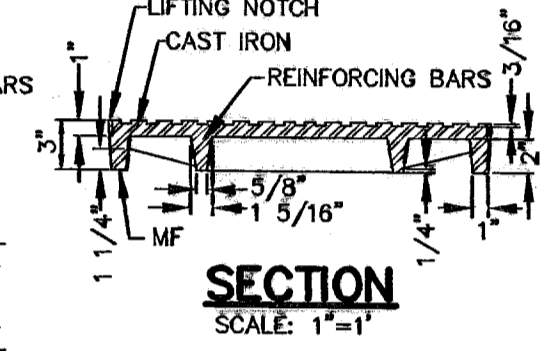
TOP VIEW
SCALE: 1"=1'



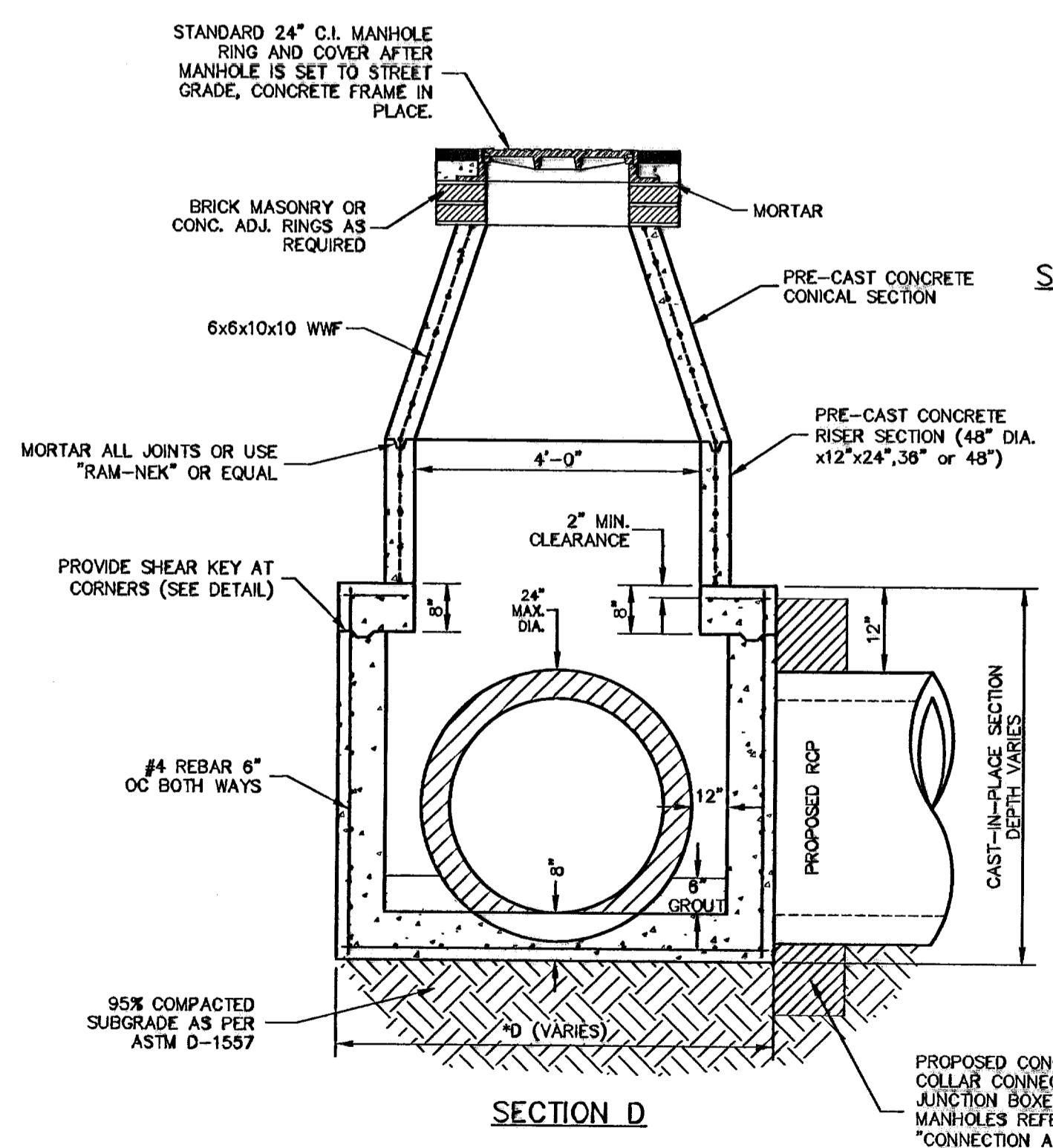
BOTTOM VIEW
SCALE: 1"=1'

| 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 3/8" |
| D | 1'-2 3/8" | 1'-9 7/8" |
| E | 11 7/8" | 1'-3 5/8" |

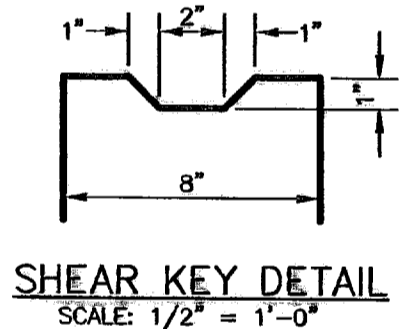
MANHOLE COVER
SCALE: AS NOTED



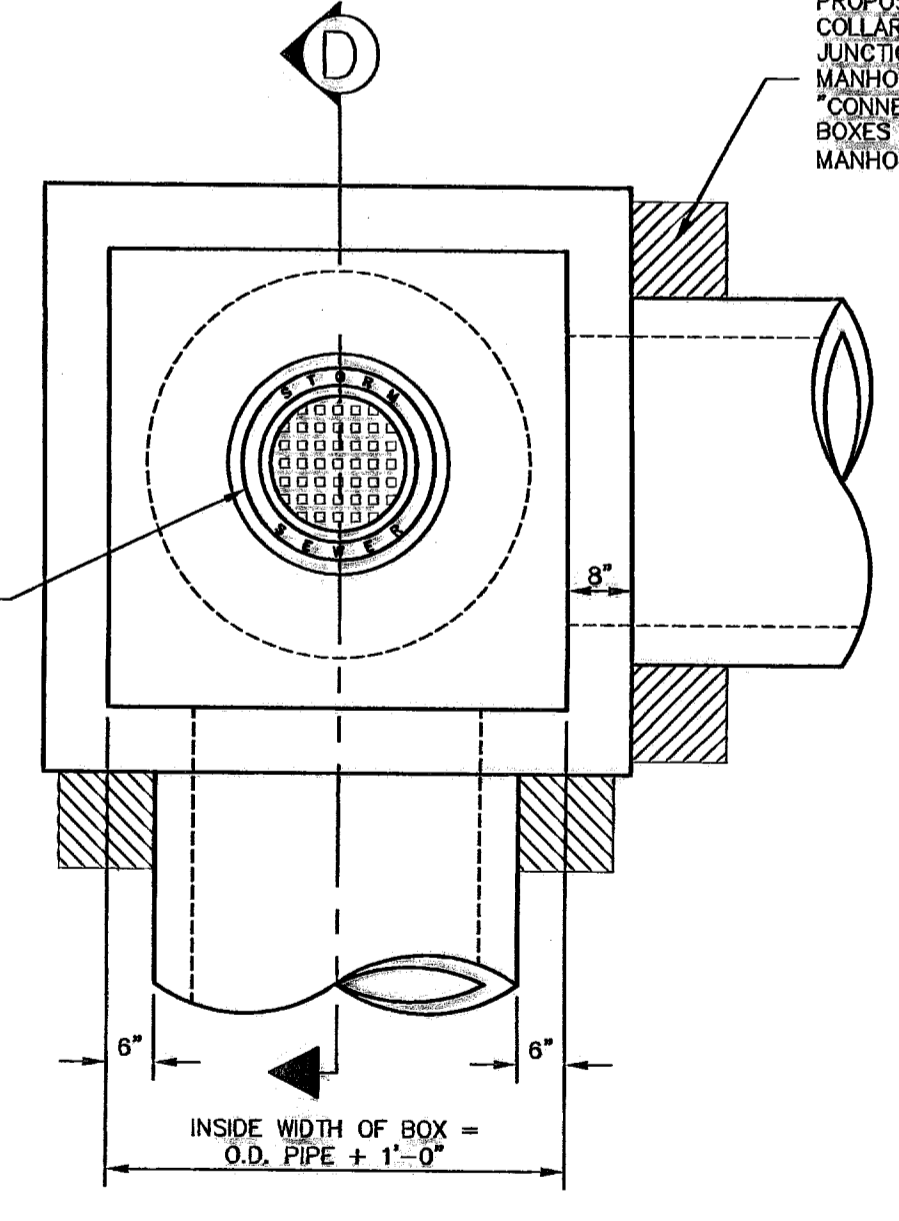
SECTION
SCALE: 1"=1'



**4'X4' JUNCTION BOX
48" PRECAST MANHOLE**
SCALE: 1"=2'-0"



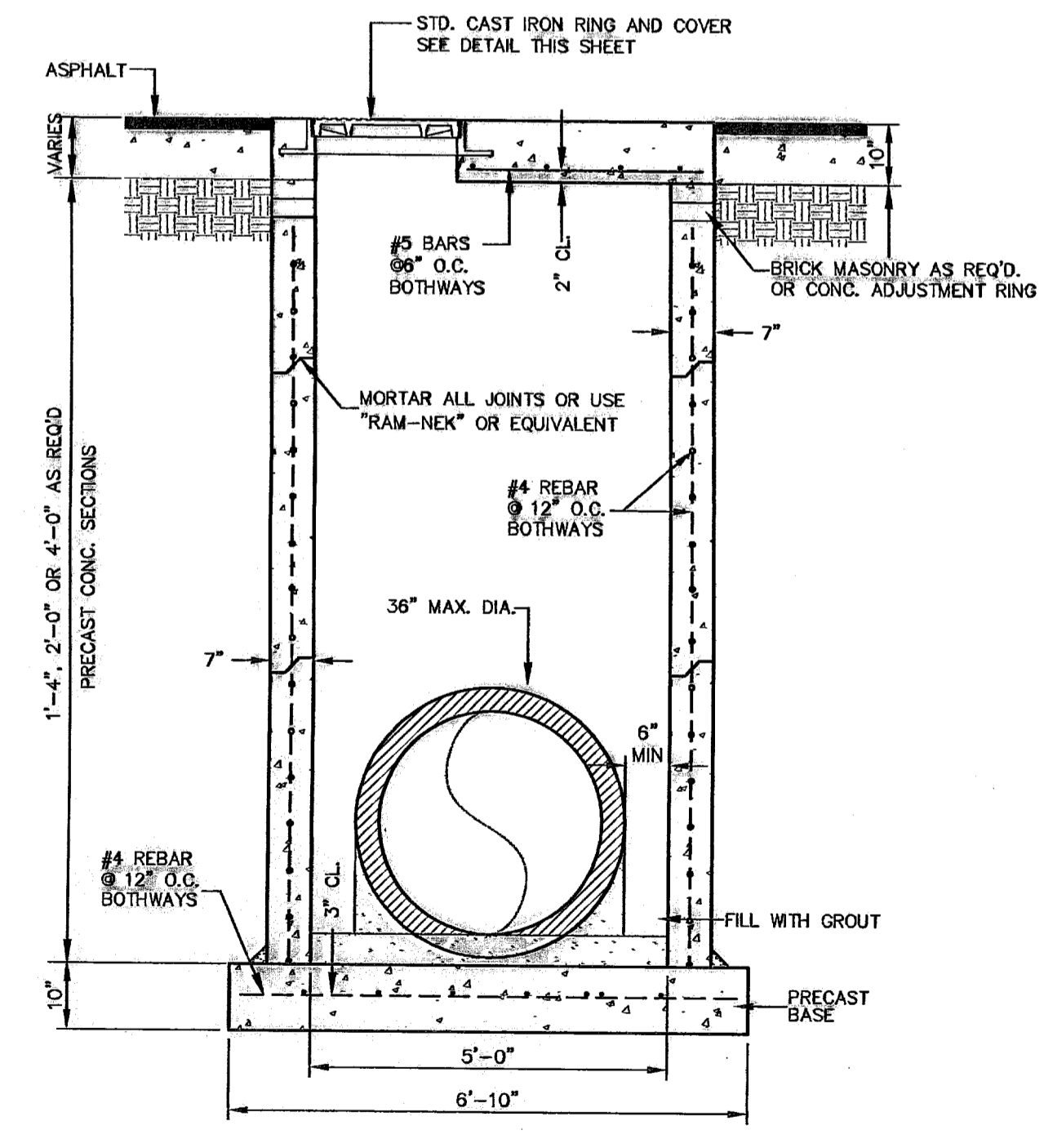
SHEAR KEY DETAIL
SCALE: 1/2"=1'-0"



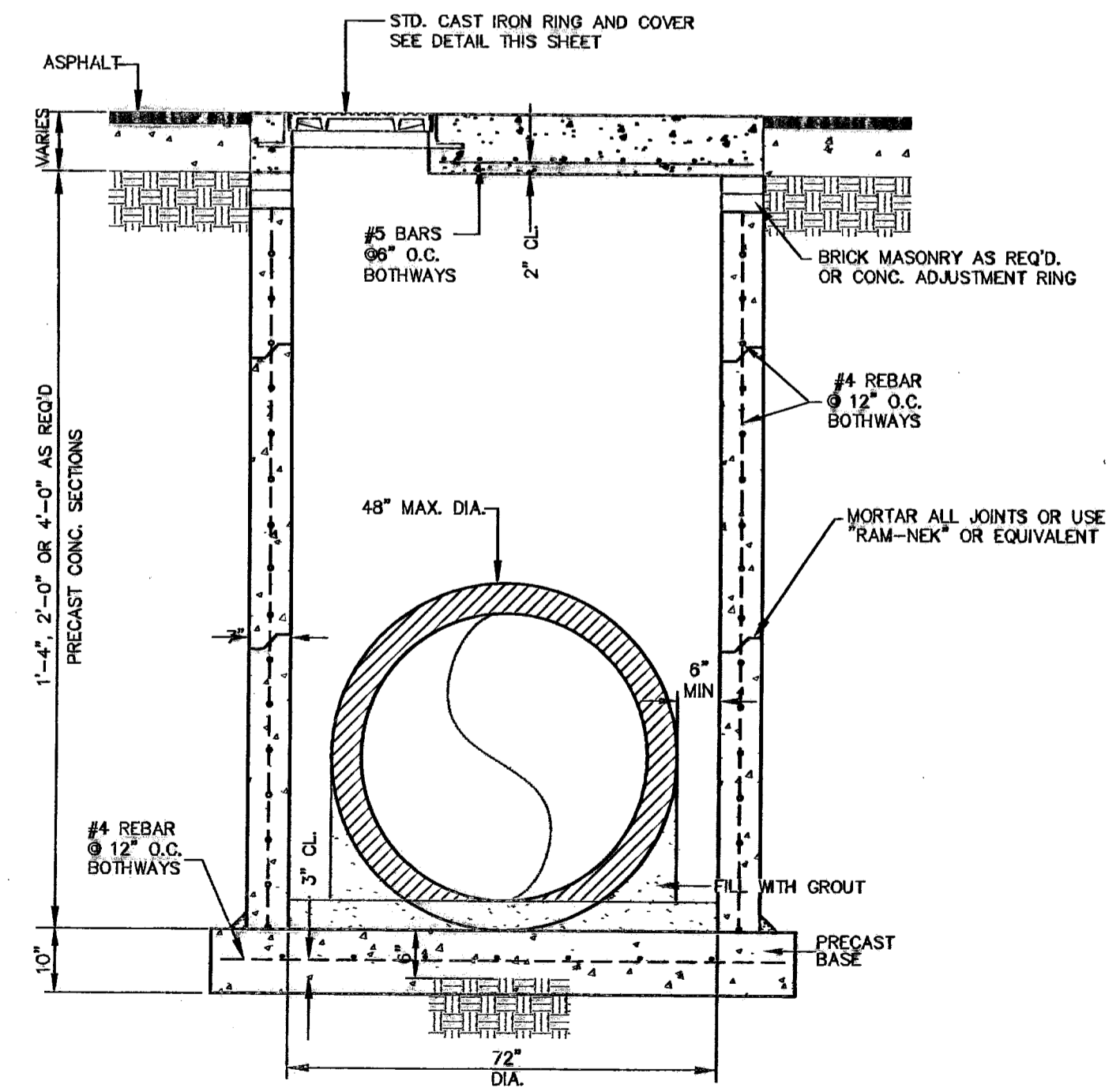
PLAN VIEW

JUNCTION BOX NOTES

- STANDARD STRUCTURAL DESIGN SHALL BE BASED ON AASHTO HS20 WHEEL LOADING.
- THE PRE-CAST MANHOLE RISER AND CONICAL SECTIONS SHALL CONFORM TO ASTM SPECIFICATIONS C-478.
- THE CONICAL SECTIONS SHALL BE ECCENTRIC WHERE LADDER RUNGS ARE REQUIRED.
- THE PRE-CAST CONCRETE SHALL HAVE A MINIMUM ALLOWABLE COMPRESSIVE STRENGTH AT 28 DAYS OF 4000 POUNDS PER SQUARE INCH FOR THE RISER AND CONICAL SECTIONS.
- THE RISER SECTIONS SHALL BE REINFORCED WITH STEEL WIRE MESH 6x6, 10-10 AND THE CONICAL SECTION SHALL HAVE 6x6, 10-10 STEEL WIRE MESH REINFORCEMENT AND 3/8" ROD AT TOP AND BOTTOM (SEE ASTM STANDARDS PART 16-C-478). REINFORCING STEEL SHALL COMPLY WITH ASTM A615 GRADE 60, A706 GRADE 60 OR A497 GRADE 70. BAR BENDING AND PLACEMENT SHALL COMPLY WITH THE LATEST ACI SPECIFICATIONS.
- REINFORCING STEEL FOR CAST IN PLACE JUNCTION BOX SHALL COMPLY WITH ASTM A615 GRADE 60, A706 GRADE 60 OR A497 GRADE 70. BAR BENDING AND PLACEMENT SHALL COMPLY WITH THE LATEST ACI SPECIFICATIONS.
- ALL CAST IN PLACE CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI AT 28 DAYS.
- ALL JUNCTION BOXES GREATER THAN 18' IN DEPTH MUST BE PRE-CAST.



**5'X5' JUNCTION BOX
60" PRECAST MANHOLE SECTION**
SCALE: 1"=2'-0"



**6'X6' JUNCTION BOX
72" PRECAST MANHOLE SECTION**
SCALE: 1"=2'-0"

REVISIONS
CITY OF EL PASO
ELEVATION = 3686.64 (EL PASO CITY DATUM)

| NO. | DATE | DESCRIPTION | BY |
|-----|----------|---------------------------|-----|
| 6 | 3/17/10 | Revised As-Built Drawings | JCK |
| 5 | 9/14/09 | Revised As-Built Drawings | JCK |
| 4 | 9/25/08 | As-Built Drawings | JCK |
| 3 | 2/14/08 | Final Submittal | JCK |
| 2 | 1/28/08 | 2nd City Submittal | JCK |
| 1 | 12/11/07 | 1st City Submittal | JCK |

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1-800-346-TESS
544-6300
EL PASO GAS SERVICE
EMERGENCY HOTLINE
562-8411/562-2003
757-7414
EL PASO NATURAL GAS CO.
1-800-334-8577
TEXAS EXCAVATION SAFETY SYSTEM

STATE OF TEXAS
REGISTERED PROFESSIONAL ENGINEER
JOHN C. KARLSRUHER
53878

CSA design group, inc.
Texas Registered Engineering Firm
1845 Northwestern Dr. Ste C
El Paso, Texas 79912
tel (915) 877.4155
fax (915) 877.4334
www.csaengineers.com



CAMPUS PARK
UNIT ONE
SUBDIVISION
SHEET TITLE

STORM SEWER DETAILS

| | |
|------------------|-------------|
| COB DESIGN BY | 7008 JCK |
| DATE | 12/11/07 |
| DRAWN BY | AS NOTED |
| CHECKED BY | AS NOTED |

THESE RECORD DRAWINGS HAVE BEEN PREPARED IN ACCORDANCE WITH THE DOCUMENTATION PROVIDED BY THE DEVELOPER, AS WELL AS INFORMATION GATHERED FROM ON-SITE VISITS AND SURVEY INFORMATION. ACCURACY OF THE INFORMATION PROVIDED BY OTHERS IS NOT WARRANTED BY THIS FIRM.

RECORD DRAWING

600786

DROP INLET NOTES

1. WELDED STEEL AS DETAILED ARE ACCEPTABLE GRATES. MIXING OF ALTERNATE TYPES OF GRATES ON THE SAME PROJECT WILL BE PERMITTED ONLY WITH THE APPROVAL OF THE CITY ENGINEER.
2. ALL CONSTRUCTION AND MATERIALS SHALL BE IN ACCORDANCE WITH THE CURRENT STANDARD SPECIFICATIONS.
3. SHARP EDGES RESULTING FROM FABRICATION SHALL BE DULLED BY ANY ACCEPTABLE METHOD FOR SAFETY AND HANDLING.
4. GRATES SHALL BE INSTALLED IN FRAME WITH FLOW ARROW POINTING DOWNSTREAM OR TOWARD THE LOW POINT IN A SUMP.
5. WELDED GRATES SHALL BE STRUCTURAL STEEL CONFORMING TO THE REQUIREMENTS OF AASHTO M-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 GRATES OF STEEL ON THE SAME GRATE WILL NOT BE PERMITTED.
6. 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.
7. ALL WELDS SHALL BE A MINIMUM OF 1/4" FILLET AND SHALL CONFORM TO THE SPECIFICATIONS FOR HIGHWAY CONSTRUCTION AND TO THE AWS STRUCTURAL WELDING CODE. ELECTRODES SHALL BE COMPATIBLE TO THE DIFFERENT GRATES OF STEEL THAT COMPRISE THE GRATE MEMBERS.
8. 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 55B OR ASTM A-48 CLASS 55B. THE SPECIFICATIONS OF GENERAL APPLICATION FOR CAST STEEL GRATES SHALL BE AASHTO M-103 SCOPE 1.2.1, GRADE N-1.
9. 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 NOR BRITTLE.
10. ALL CASTINGS SHALL BE MANUFACTURED TRUE TO PATTERN. COMPONENT PARTS SHALL FIT TOGETHER IN A SATISFACTORY MANNER.
11. ALL CONCRETE TO BE 3000 p.s.i. CHAMFER ALL EXPOSED EDGES 3/4". ALL DIMENSIONS RELATING TO REINFORCING STEEL ARE TO CENTER OF BARS.
12. MINIMUM CONCRETE COVER SHALL BE 1 1/2" FOR STEEL REINFORCING.
13. EXPANSION MATERIAL TO BE 1/2" BITUMINOUS FIBER AND TO BE PLACED WHERE PROPOSED CONCRETE COMES IN CONTACT WITH ANY EXISTING OR PROPOSED CONCRETE OR MASONRY STRUCTURE.
14. STRUCTURAL STEEL SHALL BE SHOP PAINTED IN ACCORDANCE WITH T.H.D. ITEM 448 "PAINT AND PAINTING".
15. SURFACE OF ALL EXPOSED CONCRETE SHALL CONFORM IN SLOPE AND GRADE TO EXISTING OR PROPOSED CURB AND WALK ADJACENT TO INLETS.
16. ALL REINFORCING BARS TO BE # 4 BARS AT 6" O.C. GRADE 60. BEND BARS AROUND PIPE OPENINGS.
17. INLETS TO BE DESIGNATED IN PLANS BY NUMBER OF GRATES REQUIRED.
18. LOCATION OF SEWER PIPES SHOWN ELSEWHERE IN PLANS.
19. 2 - 1/2" DIA. x 4" LONG CONC. ANCHOR STUDS REQUIRED FOR EACH SIDE OF FRAME, WHERE RESTING ON CONCRETE, USE NELSON STUDS OR EQUAL.
20. THE GRATES OF ALL INLETS WITHIN THE STREET PAVEMENT MUST BE CONSTRUCTED WITH THE GRATE BARS PERPENDICULAR TO THE CURB.
21. EXCAVATION WHICH WILL EXCEED FIVE (5) FEET IN DEPTH SHALL PROVIDE FOR TRENCH SAFETY AS PER OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) GUIDELINES.

BENCHMARK CITY MONUMENT AT THE CENTERLINE INTERSECTION OF NORTHWESTERN DRIVE AND PASCO DEL NORTE BOULEVARD (EL. PASCO CITY DATUM)
ELEVATION = 3886.14

| NO. | DATE | DESCRIPTION | BY |
|-----|----------|---------------------------|-----|
| 5 | 3/17/10 | Revised As-Built Drawings | JCK |
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545-9411
545-9412
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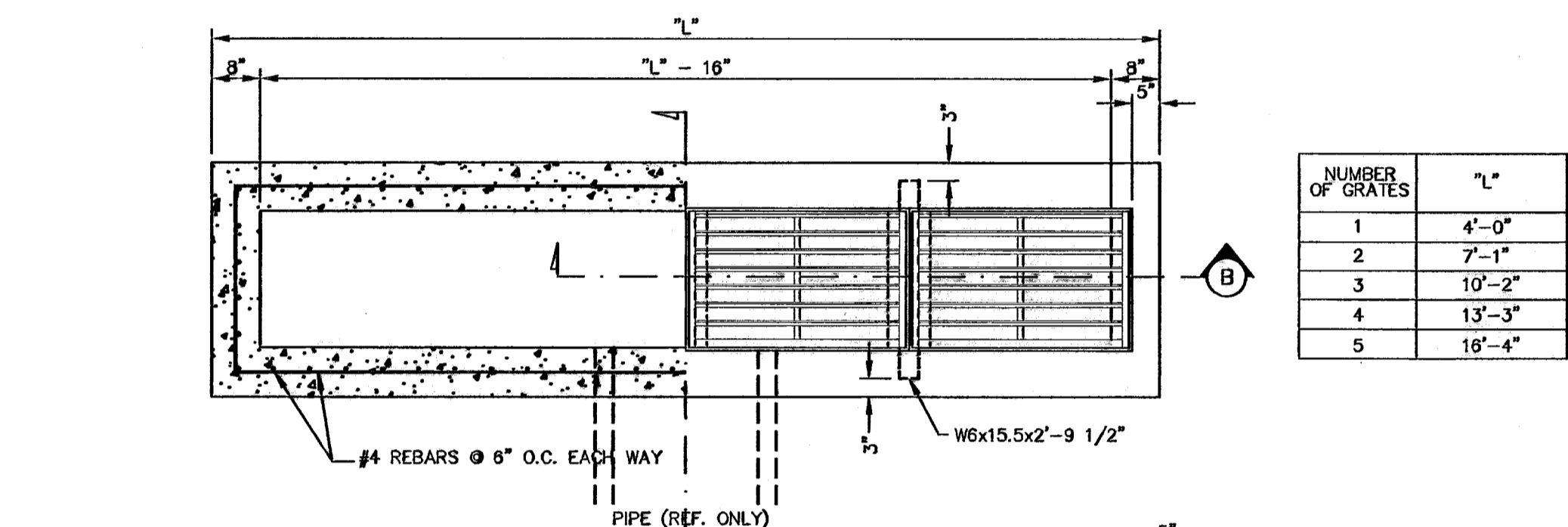
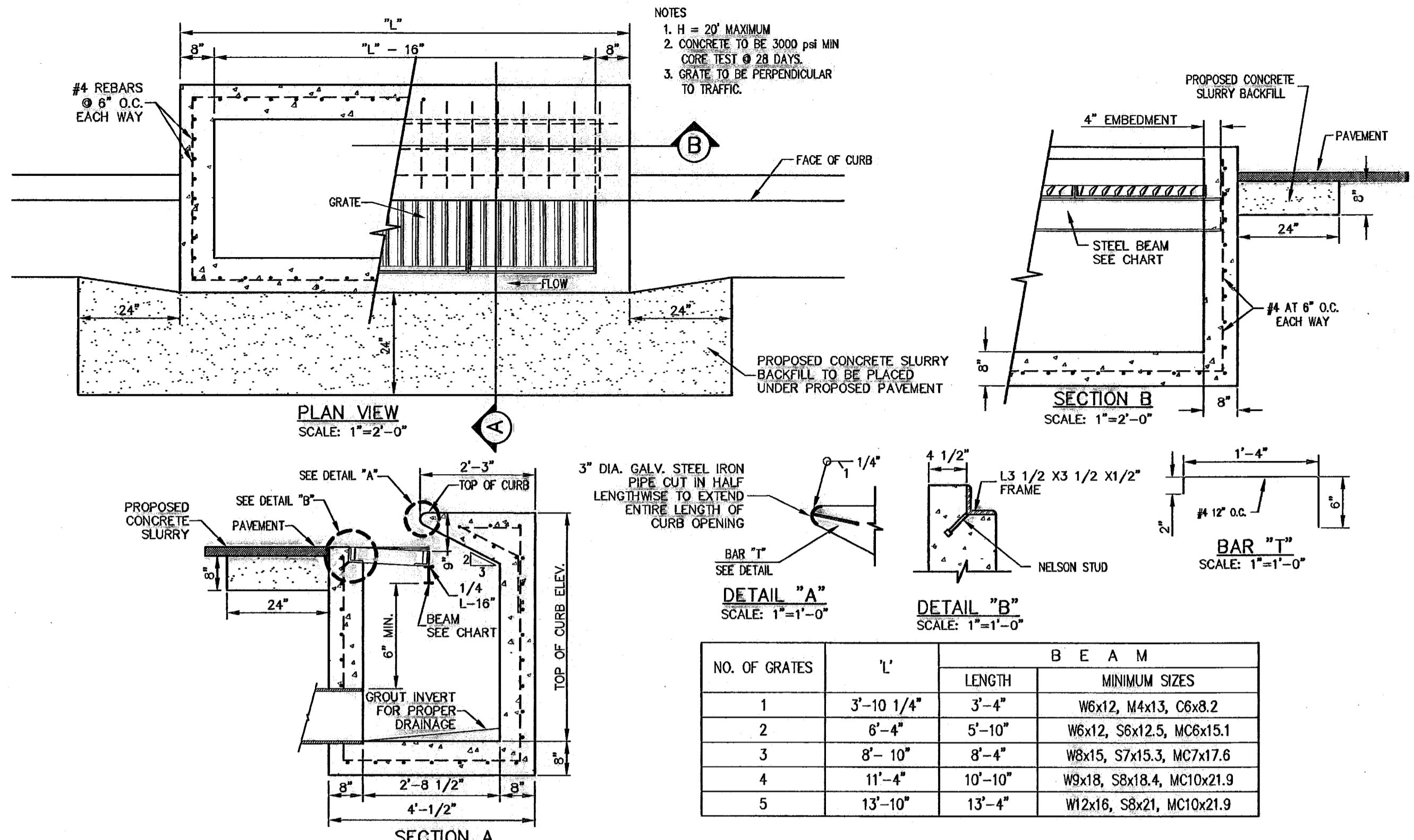
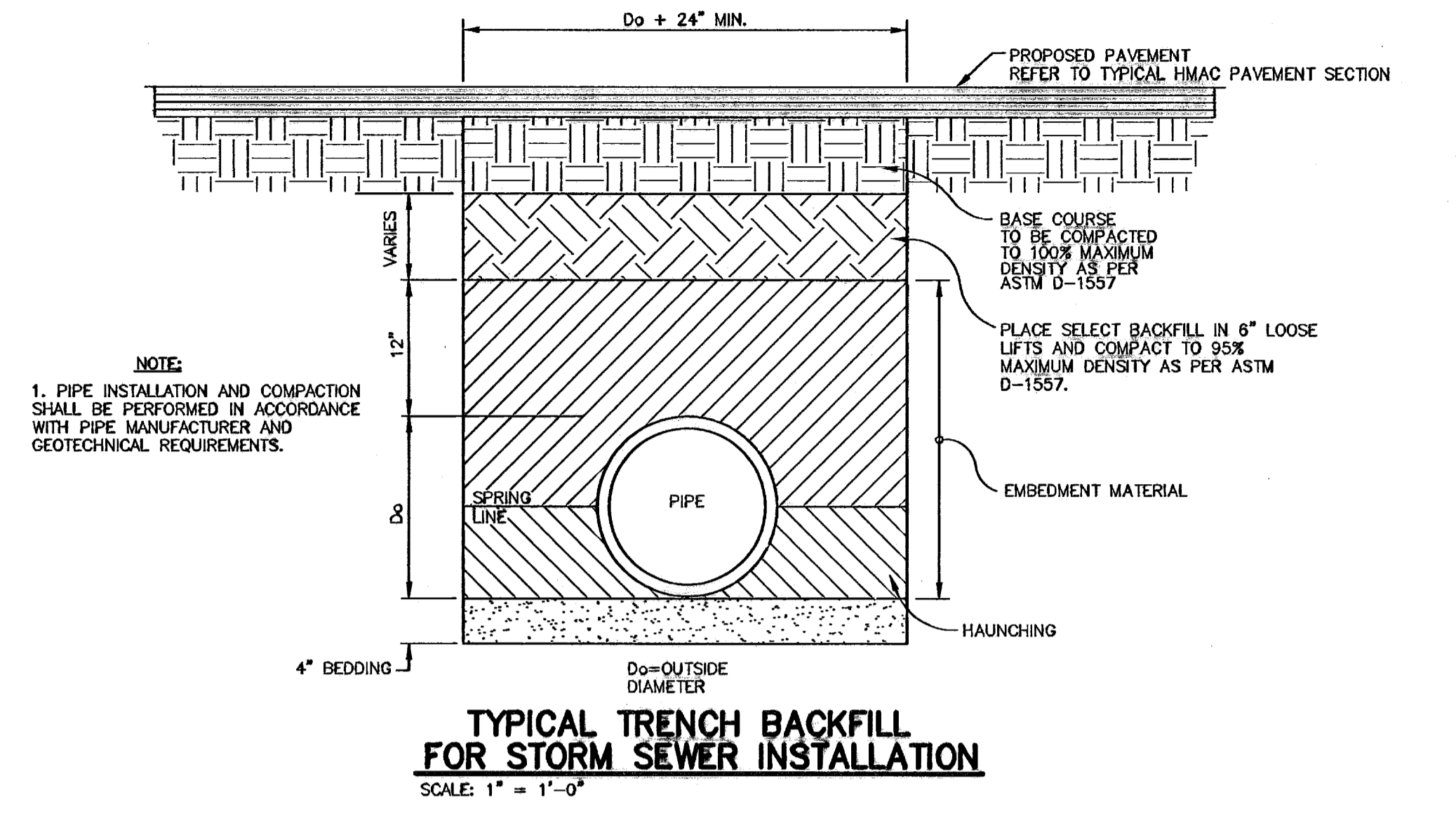


CAMPUS PARK UNIT ONE SUBDIVISION
SHEET TITLE

STORM SEWER DETAILS

| | |
|----------------|----------|
| JOB NO. | 7008 |
| DESIGN BY | JCK |
| DATE OF DESIGN | 12/11/07 |
| DESIGNED BY | JCK |
| CHECKED BY | AS NOTED |

23
28



INLET CALCULATIONS

INLET 1
FLOW THROUGH INLET FORMULA
 $Q_i = CA \sqrt{2gh}$
 $Q_i = 7(4.40) \sqrt{2(32.2)(0.625)}$
 $Q_i = 19.54 \text{ cfs} + \frac{1}{2} = 13.03 \text{ cfs}$
 $Q_{total} = 13.03 \text{ cfs}$

WEIR FORMULA
 $Q_w = 3.087 L H^{3/2}$
 $Q_w = 3.087(10.0)(.75)^{3/2}$
 $Q_w = 20.05 \text{ cfs} + \frac{1}{2} = 13.37 \text{ cfs}$
 $Q_i + Q_w = 39.42 \text{ cfs}$

INLET 2-4
FLOW THROUGH INLET FORMULA
 $Q_i = CA \sqrt{2gh}$
 $Q_i = 7(8.60) \sqrt{2(32.2)(0.625)}$
 $Q_i = 39.08 \text{ cfs} + \frac{1}{2} = 28.05 \text{ cfs}$

WEIR FORMULA
 $Q_w = 3.087 L H^{3/2}$
 $Q_w = 3.087(10.0)(.75)^{3/2}$
 $Q_w = 20.05 \text{ cfs} + \frac{1}{2} = 13.37 \text{ cfs}$
 $Q_i + Q_w = 39.42 \text{ cfs}$

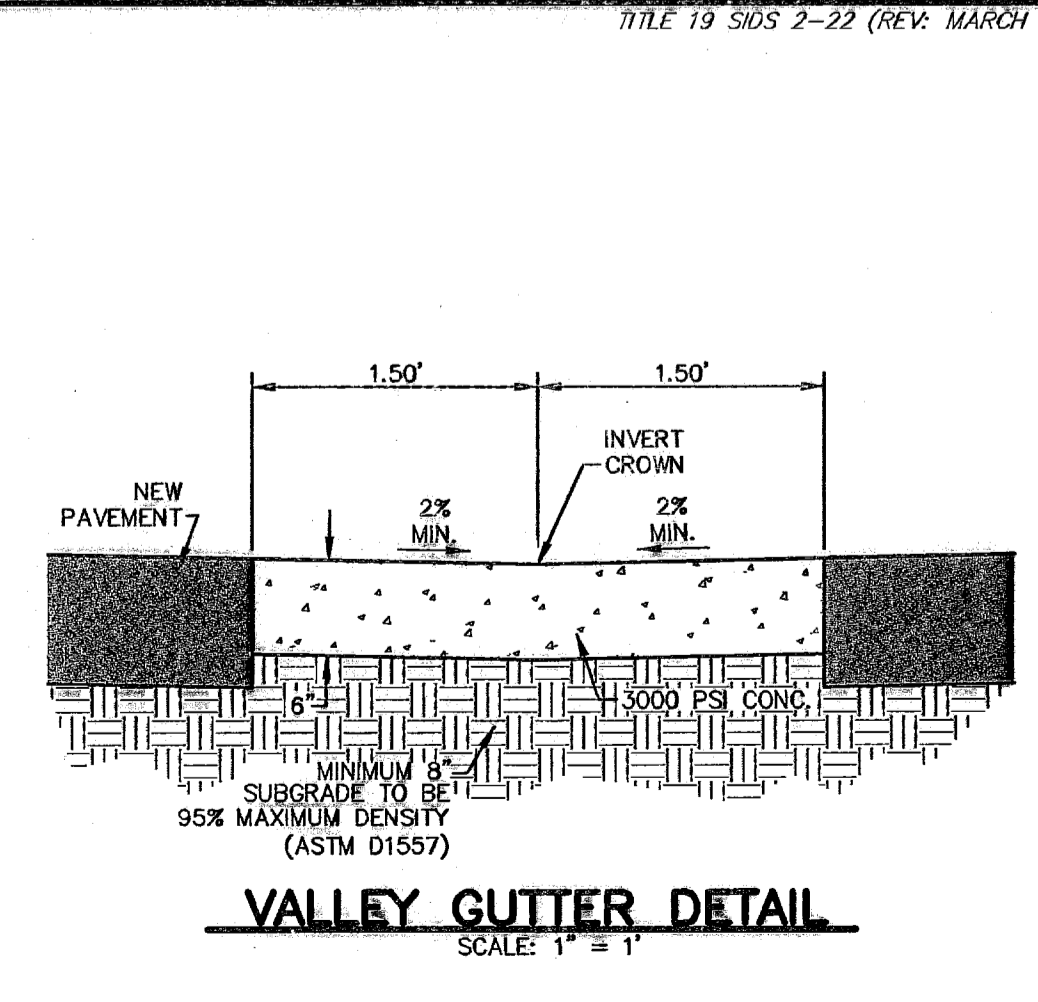
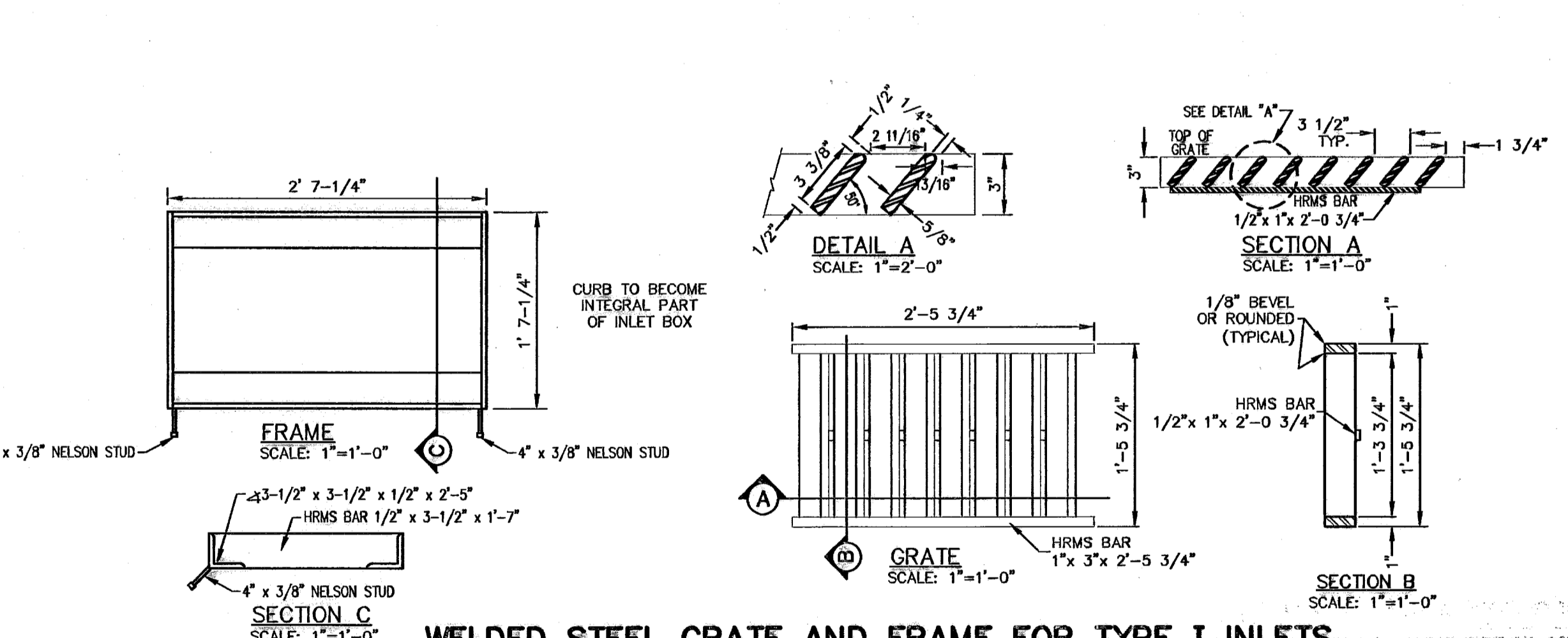
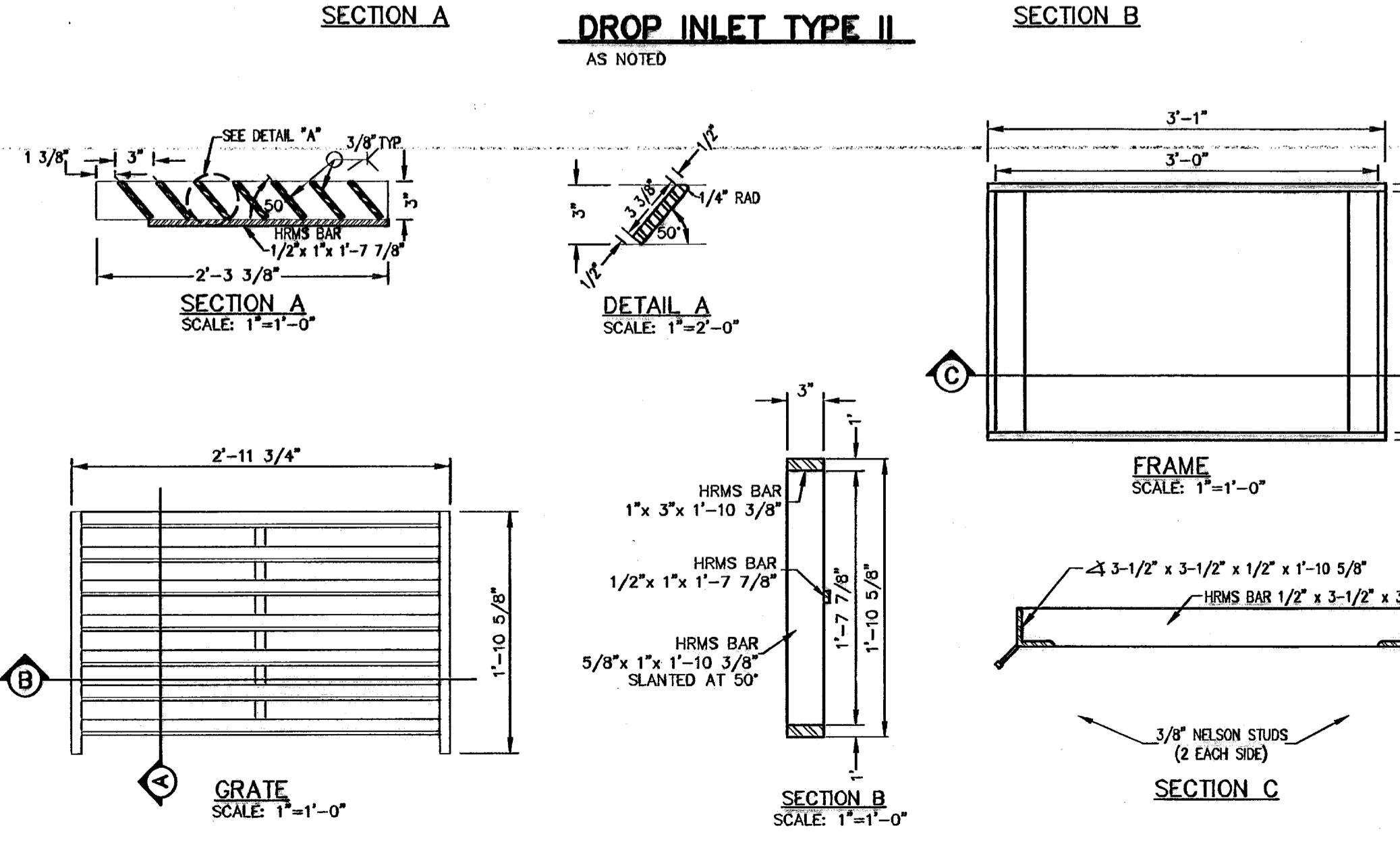
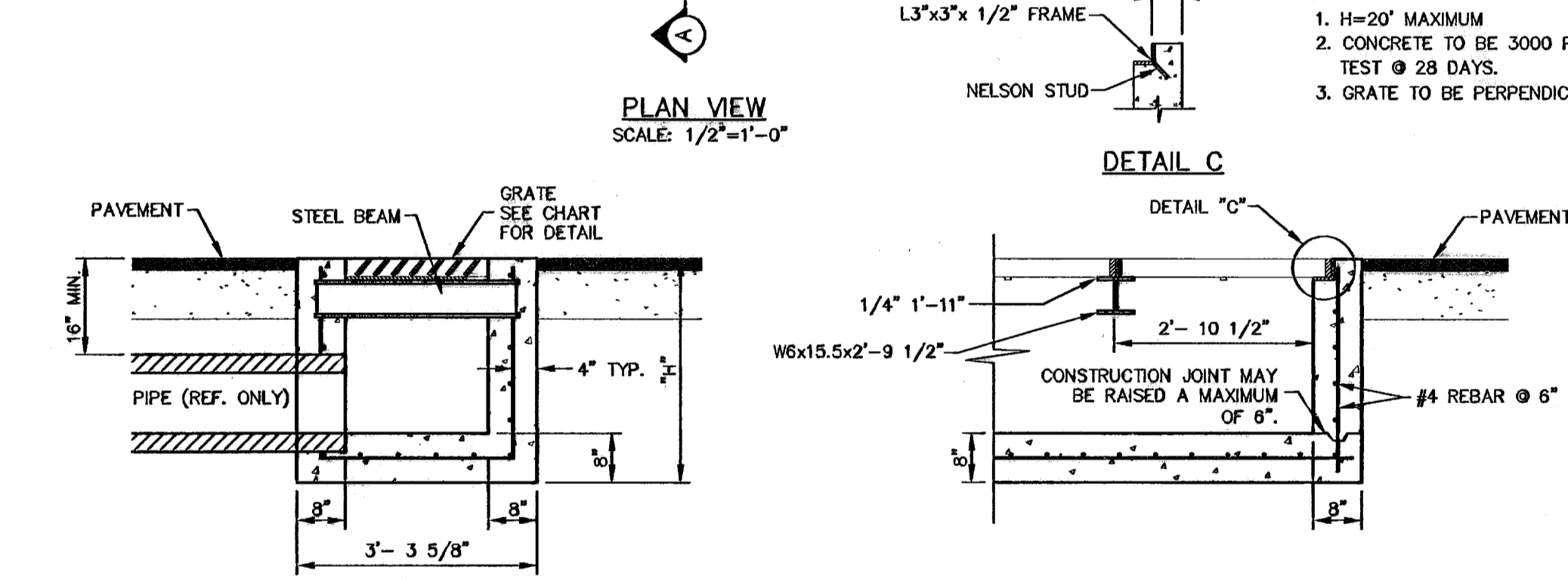
INLET 5
FLOW THROUGH INLET FORMULA
 $Q_i = CA \sqrt{2gh}$
 $Q_i = 7(4.40) \sqrt{2(32.2)(0.625)}$
 $Q_i = 19.54 \text{ cfs} + \frac{1}{2} = 13.03 \text{ cfs}$

WEIR FORMULA
 $Q_w = 3.087 L H^{3/2}$
 $Q_w = 3.087(5.00)(.75)^{3/2}$
 $Q_w = 10.03 \text{ cfs} + \frac{1}{2} = 8.68 \text{ cfs}$
 $Q_i + Q_w = 19.71 \text{ cfs}$

INLET 6
FLOW THROUGH INLET FORMULA
 $Q_i = CA \sqrt{2gh}$
 $Q_i = 7(8.60) \sqrt{2(32.2)(0.625)}$
 $Q_i = 29.31 \text{ cfs} + \frac{1}{2} = 19.54 \text{ cfs}$

WEIR FORMULA
 $Q_w = 3.087 L H^{3/2}$
 $Q_w = 3.087(7.50)(.75)^{3/2}$
 $Q_w = 15.04 \text{ cfs} + \frac{1}{2} = 10.03 \text{ cfs}$
 $Q_i + Q_w = 29.57 \text{ cfs}$

INLET 7
FLOW THROUGH INLET FORMULA
 $Q_i = CA \sqrt{2gh}$
 $Q_i = 7(8.60) \sqrt{2(32.2)(0.625)}$
 $Q_i = 39.08 \text{ cfs} + \frac{1}{2} = 28.05 \text{ cfs}$

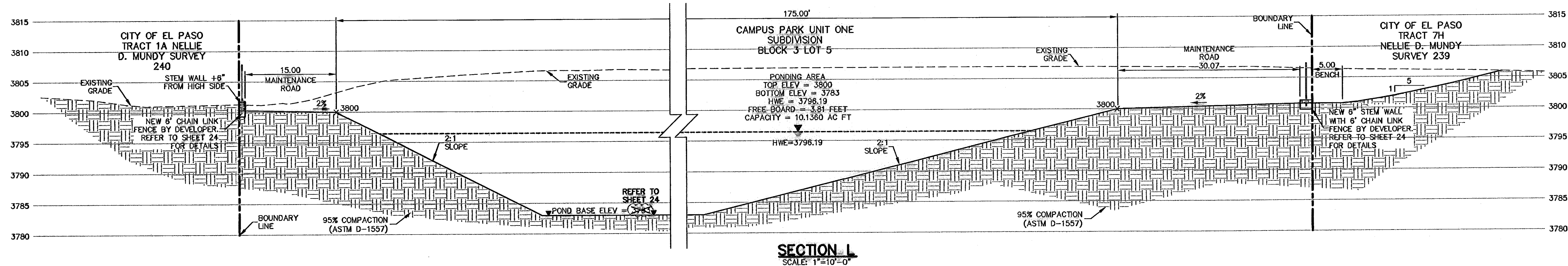


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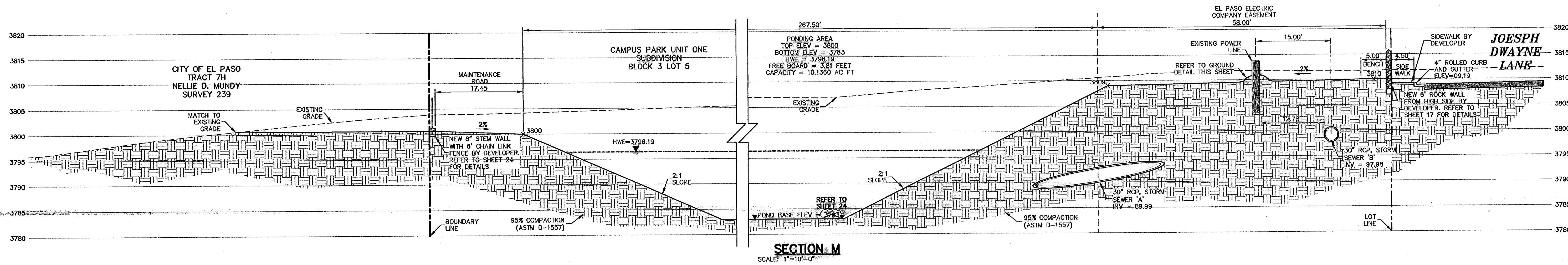
RECORD DRAWING

600786

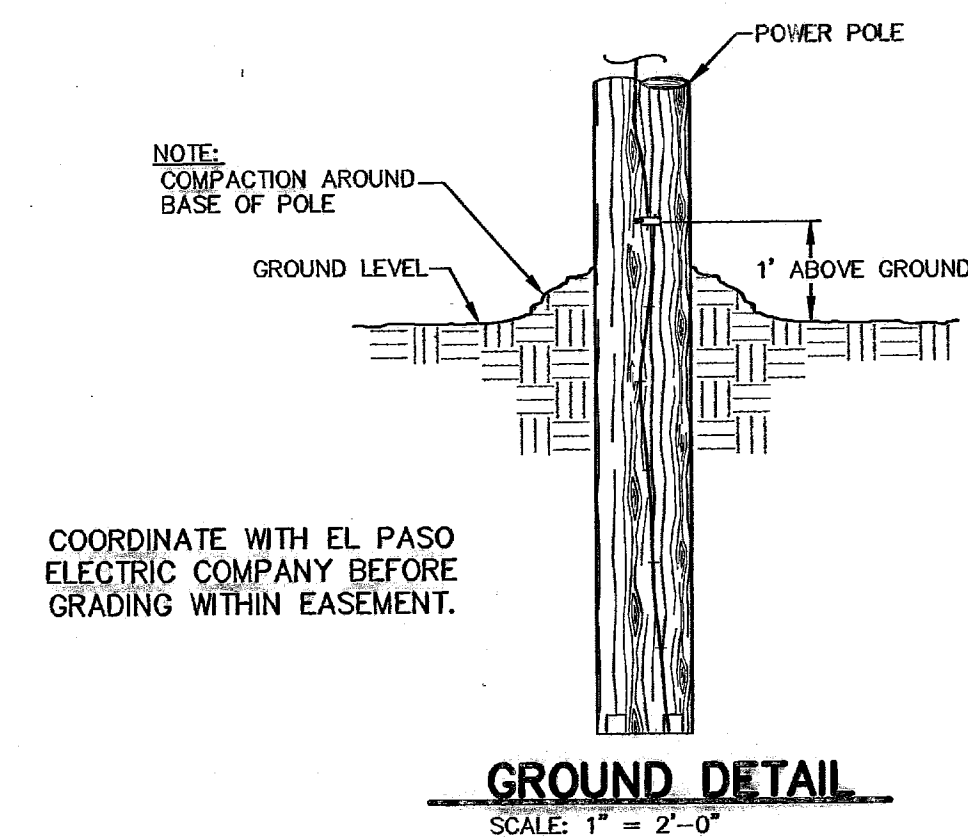
Nov 18, 2010 10:27 AM
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SECTION L
SCALE: 1"=10'-0"



SECTION M
SCALE: 1"=10'-0"



COORDINATE WITH EL PASO ELECTRIC COMPANY BEFORE GRADING WITHIN EASEMENT.

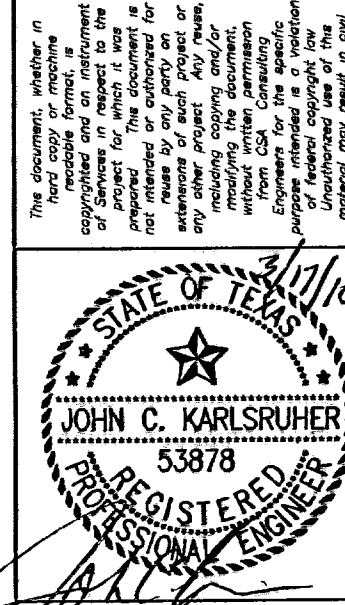
GROUND DETAIL
SCALE: 1"=2'-0"

REVISIONS: CITY MONUMENT AT THE CENTERLINE INTERSECTION OF NORTHWESTERN DRIVE AND PASADO DEL NORTE BOULEVARD ELEVATION = 3898.84 (EL PASO CITY DATUM)

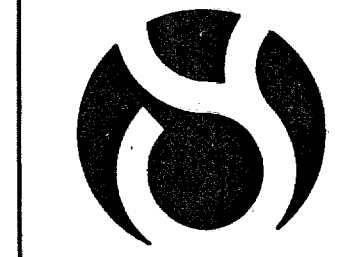
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| 4 | 9/28/08 | As-Built Drawings | JCK |
| 3 | 2/14/08 | Final Submittal | JCK |
| 2 | 1/28/08 | 2nd City Submittal | JCK |
| 1 | 12/11/07 | 1st City Submittal | JCK |

WARNING!
BEFORE YOU DIG
CONTRACTOR SHALL FIELD LOCATE ALL EXISTING UNDERGROUND IMPROVEMENTS IN PROJECT AREA

BEFORE YOU DIG - CALL
EL PASO ELECTRIC COMPANY
EL PASO GAS SERVICE
TEXAS GAS SERVICE
EMERGENCY HOTLINE
PSE (WATER & SEWER)
EL PASO NATURAL GAS CO.
TEXAS EXCAVATION SAFETY SYSTEM



cse design group, inc.
Texas Registered Engineering Firm E-4887
1842 Northwestern Dr. Ste C
El Paso, Texas 79912
Tel (915) 877 4155
Fax (915) 877 4334
www.cseengineering.com



CAMPUS PARK UNIT ONE SUBDIVISION

SHEET TITLE

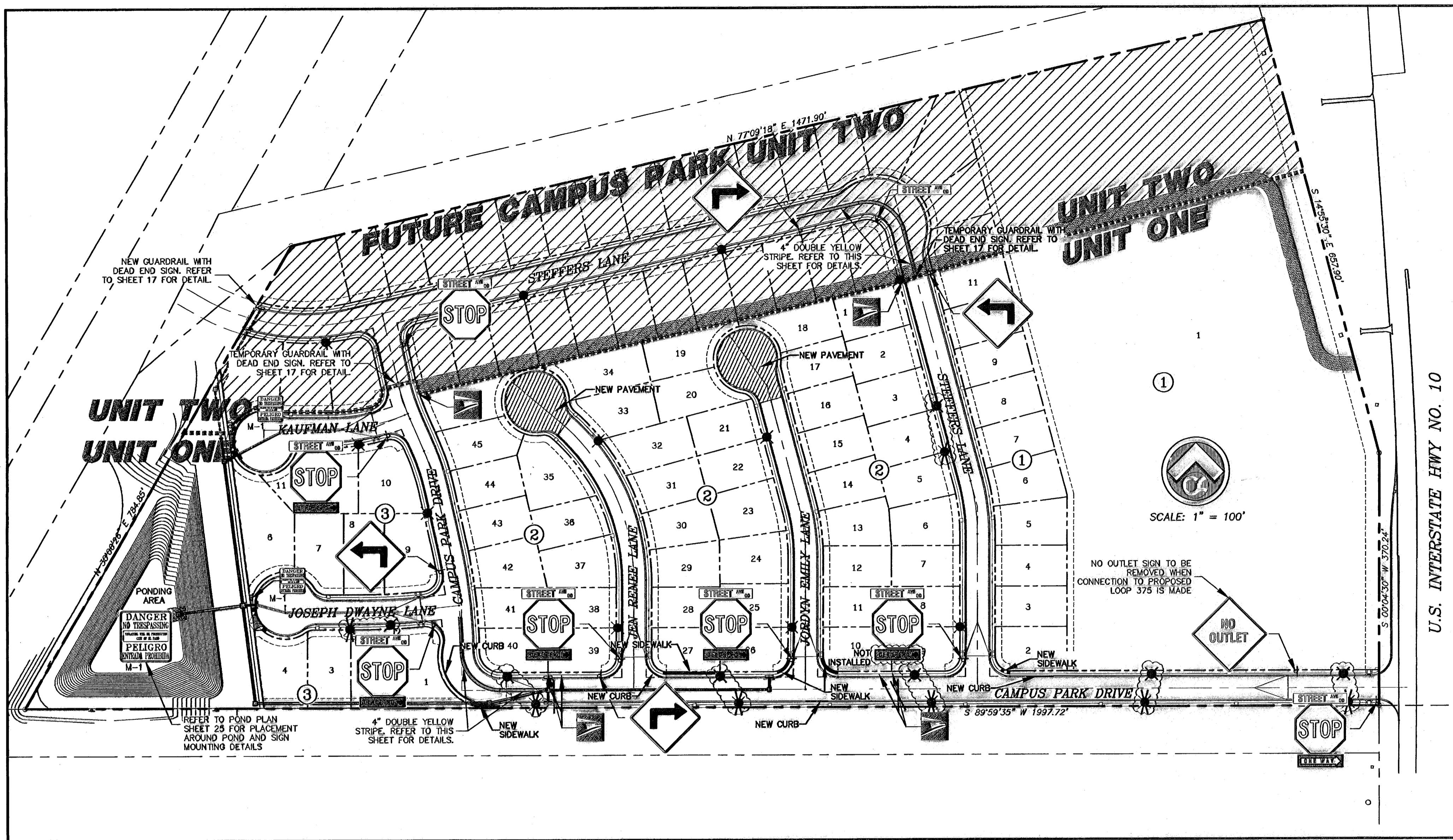
POND CROSS SECTIONS

| | |
|--------------|----------|
| 008 | 7008 |
| DES BY | DATE |
| DS - EC - GB | 12/11/07 |
| DESIGNED BY | AS NOTED |
| JCK | |

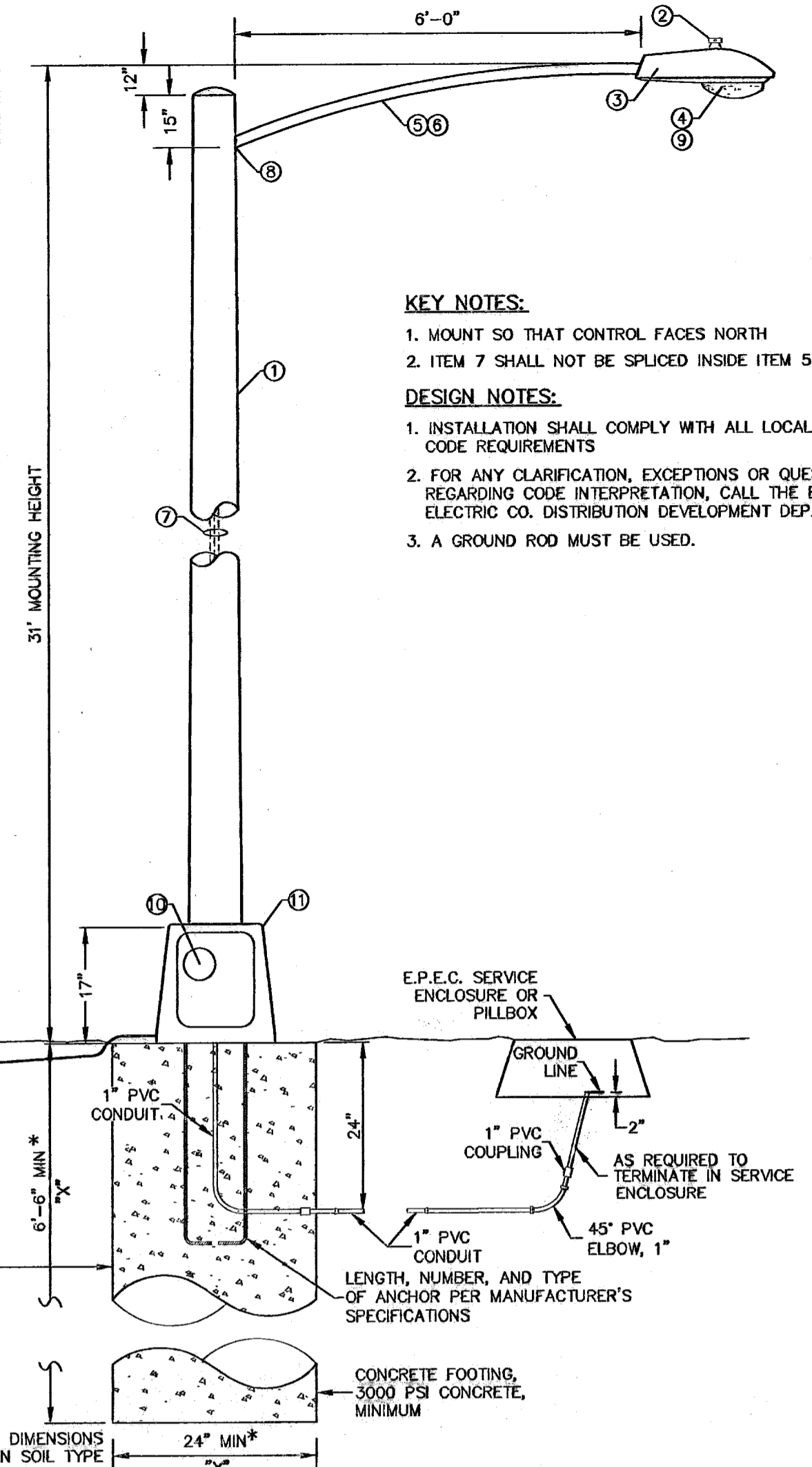
25
28

RECORD DRAWING

600786



ALL ROADWAYS INTERSECTING EXISTING PUBLIC ROADWAYS SHALL REMAIN COMPLETELY CLOSED FOR PUBLIC USE UNTIL ACCEPTED FOR MAINTENANCE BY THE CITY.



KEY NOTES:
 1. MOUNT SO THAT CONTROL FACES NORTH
 2. ITEM 7 SHALL NOT BE SPLICED INSIDE ITEM 5

DESIGN NOTES:
 1. INSTALLATION SHALL COMPLY WITH ALL LOCAL CODE REQUIREMENTS
 2. FOR ANY CLARIFICATION, EXCEPTIONS OR QUESTIONS REGARDING CODE INTERPRETATION, CALL THE EL PASO ELECTRIC CO. DISTRIBUTION DEVELOPMENT DEPARTMENT
 3. A GROUND ROD MUST BE USED.

BENCHMARK CITY MOUNTAIN AT THE CORNER OF INTERSECTION OF MACOMBER BLVD AND PASO ELEVATION = 3888.04 (EL PASO CITY DATUM)

| NO. | DATE | DESCRIPTION | BY |
|-----|----------|---------------------------|-----|
| 6 | 3/17/07 | Revised As-Built Drawings | JCK |
| 5 | 9/14/06 | Revised As-Built Drawings | JCK |
| 4 | 9/26/06 | As-Built Drawings | JCK |
| 3 | 2/14/06 | Final Submittal | JCK |
| 2 | 1/28/06 | 2nd City Submittal | JCK |
| 1 | 11/21/07 | 1st City Submittal | JCK |

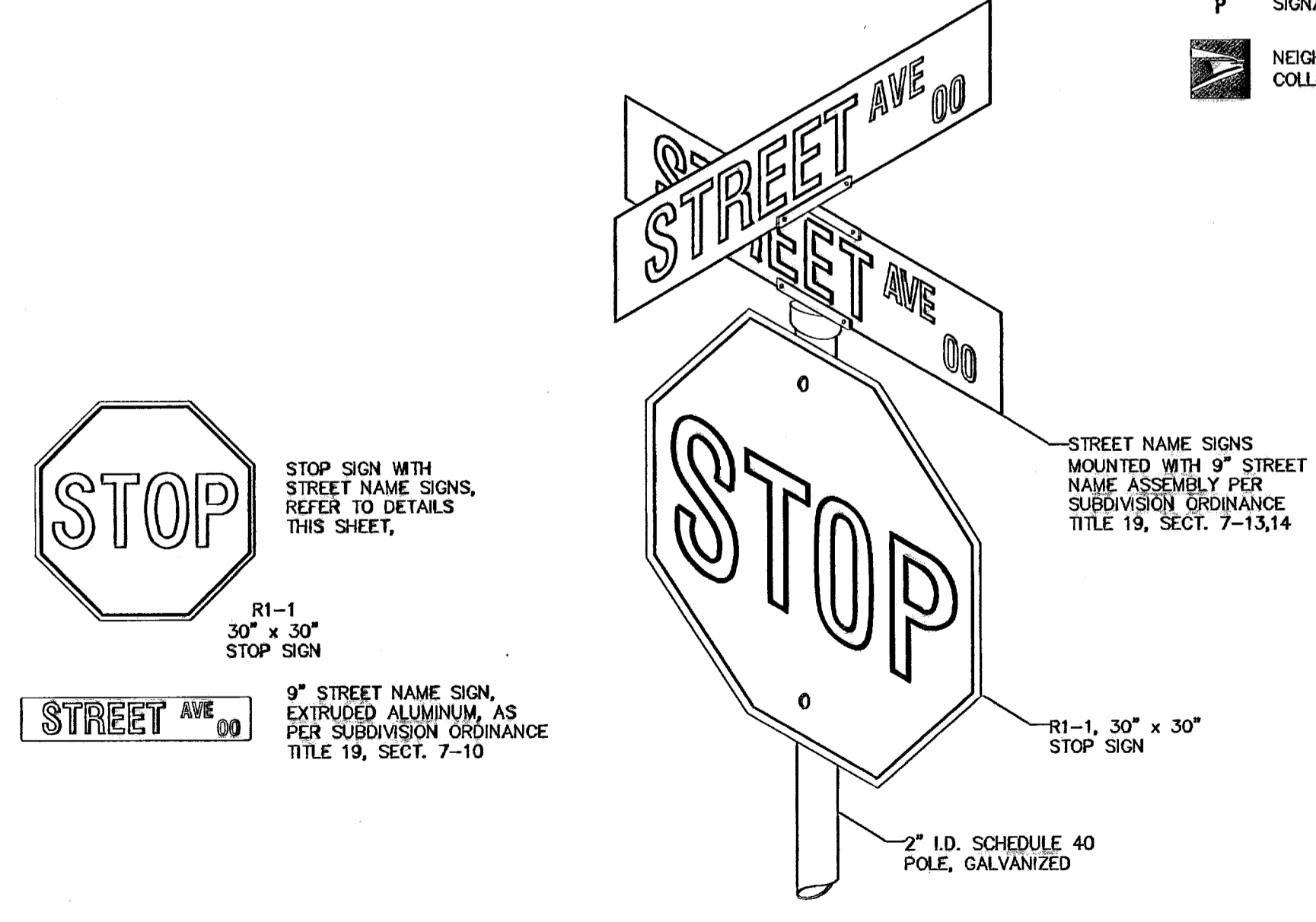
WARNING!
 BEFORE YOU DIG CONTRACTOR SHALL FIELD LOCATE ALL EXISTING UNDERGROUND IMPROVEMENTS IN PROJECT AREA

BEFORE YOU DIG - CALL

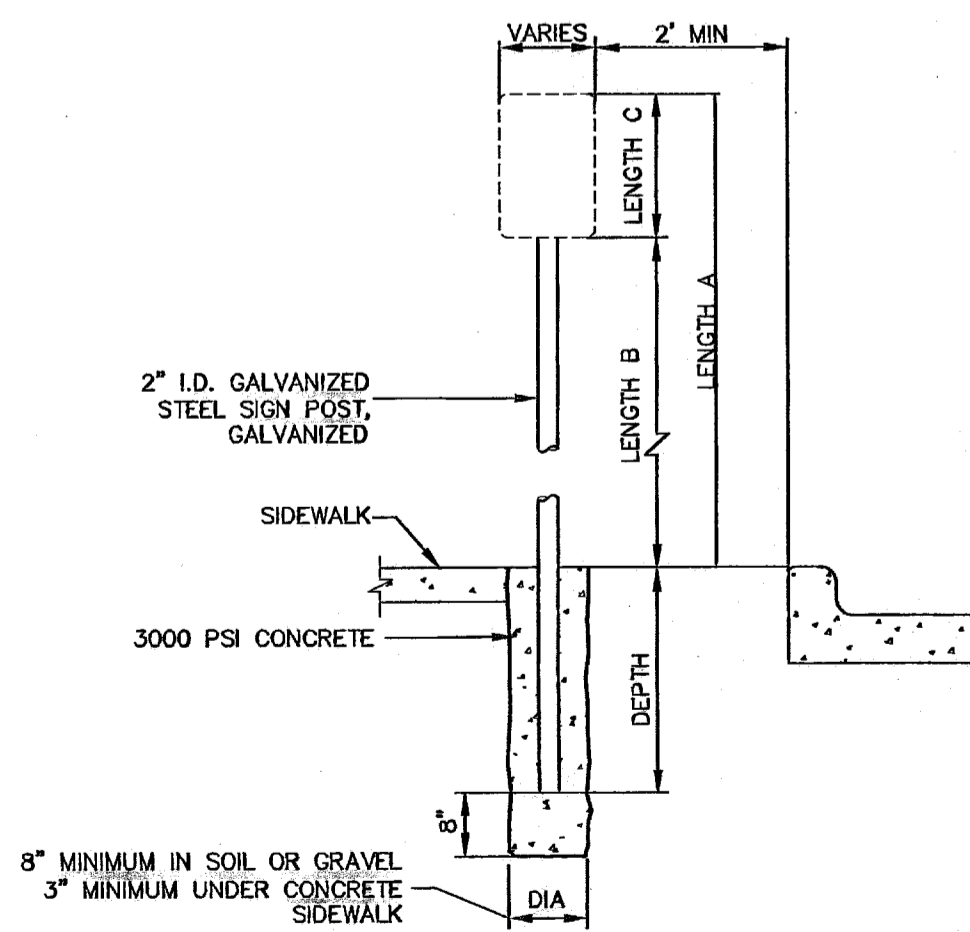
EL PASO ELECTRIC COMPANY
 943-2720
 544-3300
 TEXAS GAS SERVICE
 562-8411 / 862-2003
 EMERGENCY HOTLINE
 1-800-366-TESS
 EL PASO WATER & SEWER
 1-800-334-8047
 EL PASO WATER CO.
 1-800-334-8377
 TEXAS EXCAVATION SAFETY SYSTEM

LEGEND

- PROPOSED STREET LIGHTS REQUIRED AS PER CITY ORDINANCE 13
- ▬ SIGNAGE INSTALLATION AS NOTED
- ☐ NEIGHBORHOOD DELIVERY AND COLLECTION BOX UNIT (NDCBU)



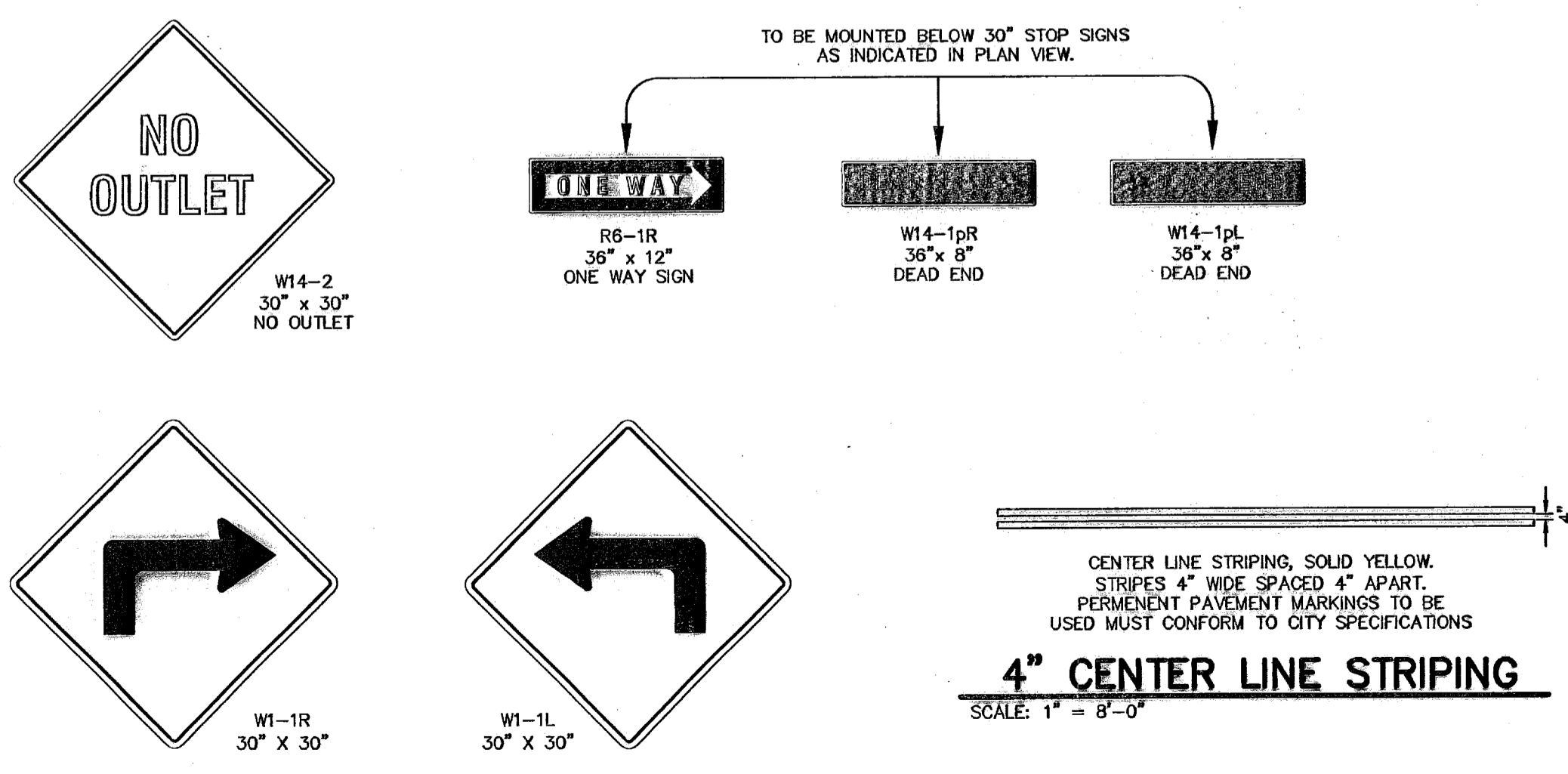
STOP SIGN WITH 9" STREET NAME SIGNS
 SCALE: N.T.S.



| LENGTH A | LENGTH B | LENGTH C | DEPTH |
|----------|----------|------------------|----------|
| 10 FEET | 7 FEET | LARGER THAN 24" | 2 FEET |
| 9 FEET | 7 FEET | SMALLER THAN 24" | 1.5 FEET |

SIGN POST INSTALLATION
 SCALE: 1/2" = 1'-0"

| ITEM | STOCK No. | QTY PER UNIT | DESCRIPTION |
|------|-----------|--------------|-----------------------------------|
| 1 | | 1 EACH | POLE 36 FT. - STEEL |
| 2 | 021-225 | 1 EACH | PHOTO CELL, 240V (SEE KEY NOTE 1) |
| 3 | 021-335 | 1 EACH | LUMINAIRE, 100W H.P.S. |
| 4 | 021-085 | 1 EACH | H.P.S. LAMP, 100W |
| 5 | 21-200 | 1 EACH | MAST ARM, 8'-0" x 1.25" |
| 6 | 013-600 | AS REQUIRED | #10 SOLID CABLE, 600' |
| 7 | 013-600 | 40 PLUS | #10 CABLE, 3-CONDUCTOR, 600V, UF |
| 8 | 05-145 | AS REQUIRED | SLEEVES, #12-10 |
| 9 | 21-608 | 1 EACH | ROADWAY LUMINAIRE, 150W H.P.S. |
| 10 | 21-250 | 2 EACH | 30 AMP BREAK-AWAY FUSES |
| 11 | 21-608 | 1 EACH | ALUMINUM TRANSFORMER BASE |
| 12 | 07-581 | 1 EACH | 5/8" GROUND ROD CLAMP |
| 13 | 08-626 | 1 EACH | 5/8" x 10' Cu BONDED GROUND ROD |



ILLUMINATION PLAN APPROVED
 DEPARTMENT OF TRAFFIC AND TRANSPORTATION
 08/22/07 600786

THIS RECORD DRAWING HAS BEEN PREPARED IN ACCORDANCE WITH THE DOCUMENTATION PROVIDED BY THE DEVELOPER AS WELL AS INFORMATION OBTAINED FROM ON-SITE VISITS AND SURVEY INFORMATION. ACCURACY OF THE INFORMATION PROVIDED BY OTHERS IS NOT WARRANTED BY THIS FIRM.

RECORD DRAWING

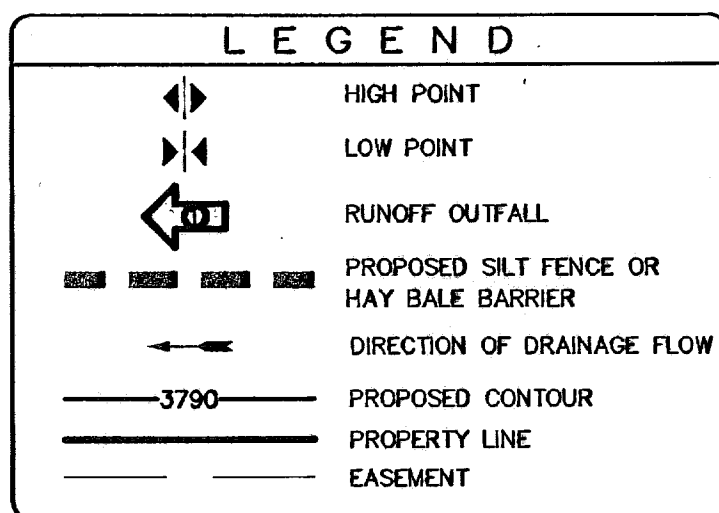
STATE OF TEXAS
 JOHN C. KARLSRUHER
 53878
 REGISTERED PROFESSIONAL ENGINEER

csa design group, inc.
 Texas Registered Engineering Firm P-4887
 1845 Northwestem Dr. Ste C
 El Paso, Texas 79912
 Tel: (915) 877 4155
 Fax: (915) 877 4334
 www.csaengineers.com

CAMPUS PARK UNIT ONE SUBDIVISION
 SHEET TITLE

ILLUMINATION PLAN

| | |
|-------------|----------|
| DESIGN BY | 7008 |
| DESIGN BY | JCK |
| DATE | 12/11/07 |
| SCALE | AS NOTED |
| CHECKED BY | JCK |
| DATE | 12/11/07 |
| PROJECT NO. | 26 |
| SHEET NO. | 28 |



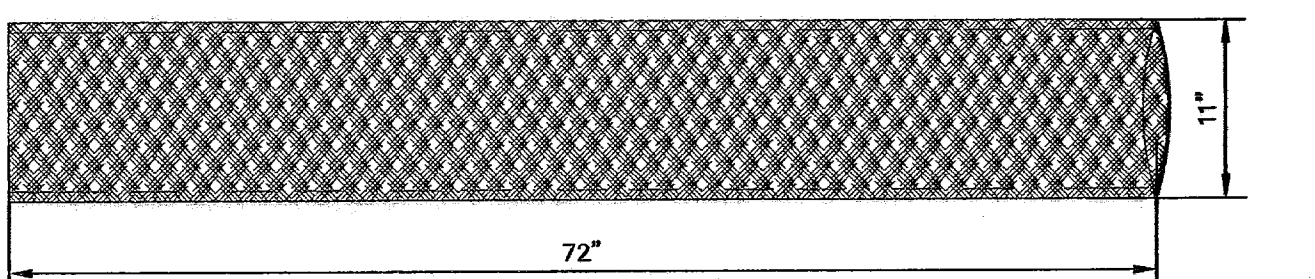
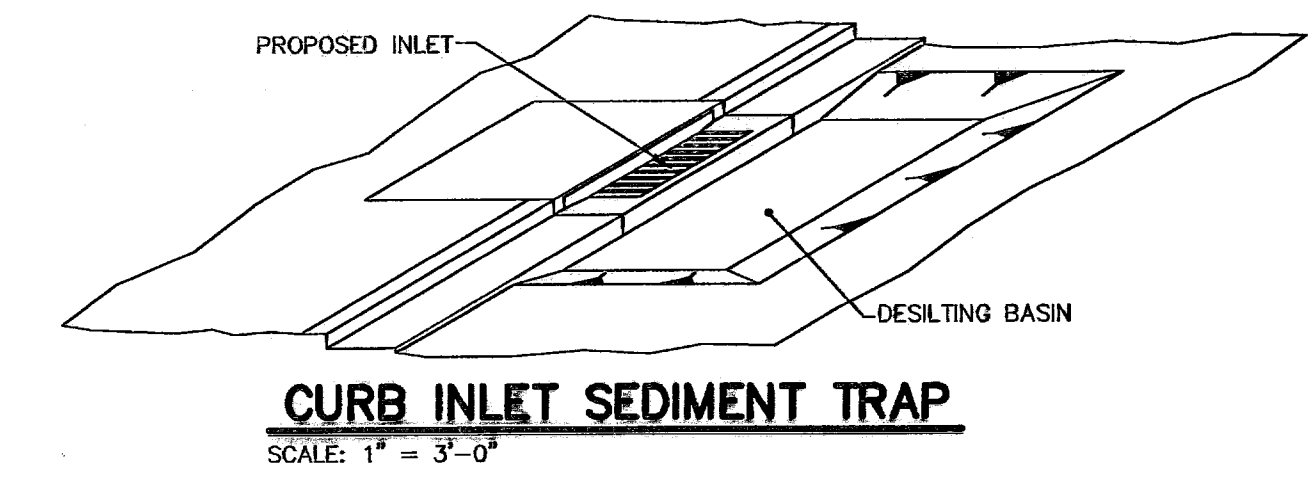
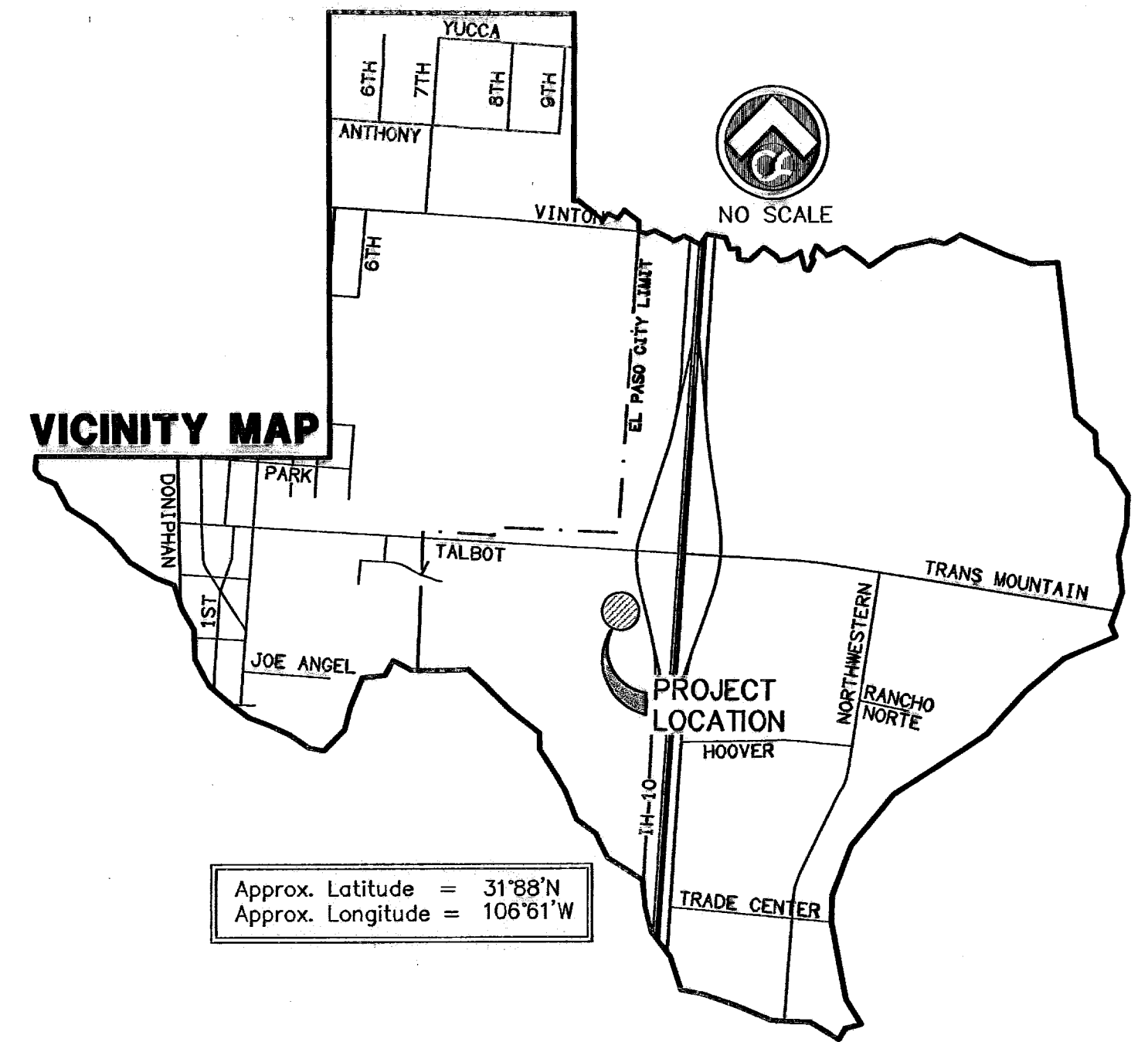
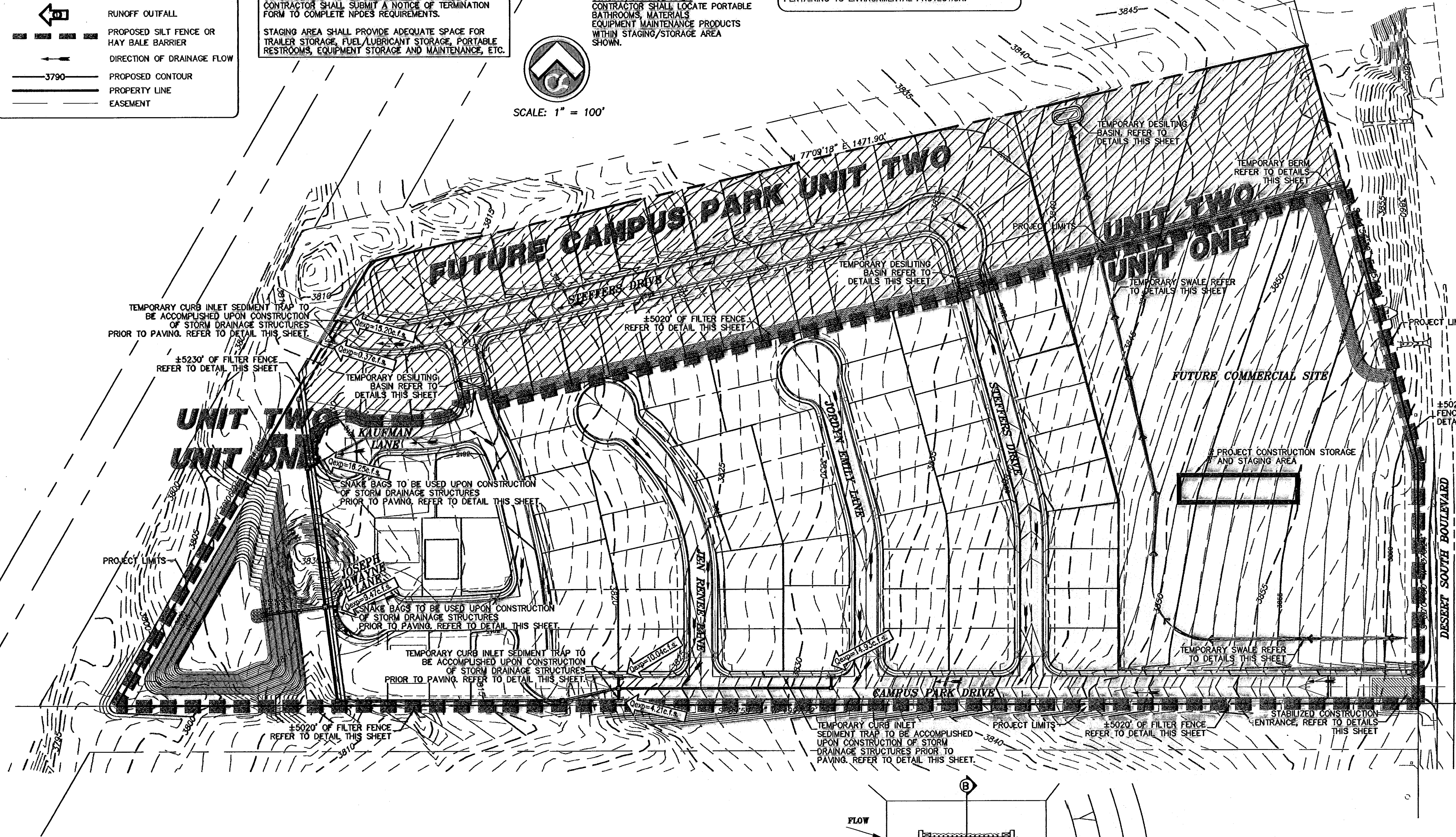
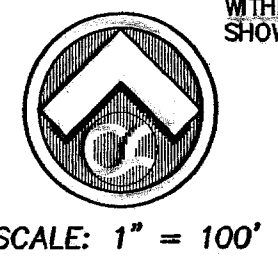
NOTE:
CONTRACTOR SHALL BE RESPONSIBLE FOR THE PREPARATION AND SUBMITTAL OF ALL STORM WATER POLLUTION CONTROL PERMITS. THE CONTRACTOR SHALL SUBMIT A NOI AND SDPC APPLICATION FORM PRIOR TO CONSTRUCTION. AFTER COMPLETION OF PROJECT, CONTRACTOR SHALL SUBMIT A NOTICE OF TERMINATION FORM TO COMPLETE NPDES REQUIREMENTS.

STAGING AREA SHALL PROVIDE ADEQUATE SPACE FOR TRAILER STORAGE, FUEL/LUBRICANT STORAGE, PORTABLE RESTROOMS, EQUIPMENT STORAGE AND MAINTENANCE, ETC.

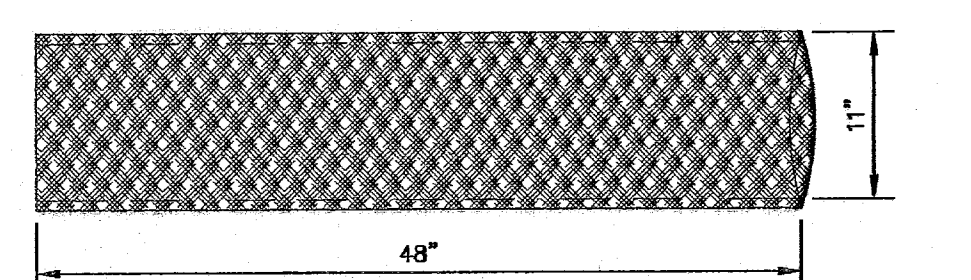
DRAINAGE NOTE:
REFER TO CIVIL DRAINAGE PLAN FOR DRAINAGE AREAS AND DISCHARGE COMPUTATIONS.

STAGING/STORAGE AREA
CONTRACTOR SHALL LOCATE PORTABLE BATHROOMS, MATERIALS EQUIPMENT MAINTENANCE PRODUCTS WITHIN STAGING/STORAGE AREA SHOWN.

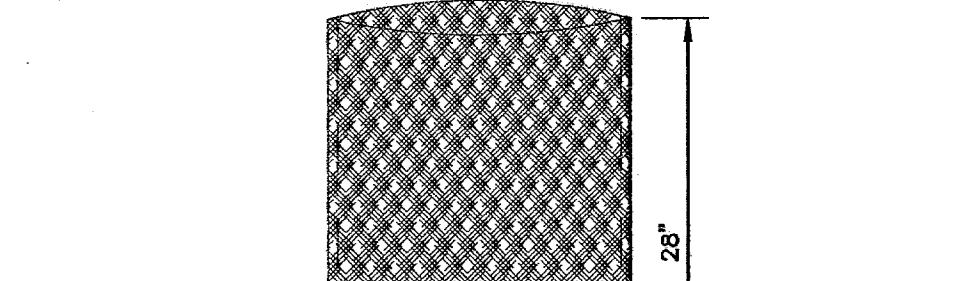
DUST AND EROSION CONTROL NOTE:
CONTRACTOR SHALL MAKE PROVISIONS FOR TEMPORARY DUST AND EROSION CONTROL WHERE EXTENSIVE DIRT OR DUST OPERATIONS ARE PERFORMED. USE WATER SPRINKLING AND OTHER METHODS TO LIMIT DUST AND DIRT MIGRATION. COMPLY WITH GOVERNING REGULATIONS PERTAINING TO ENVIRONMENTAL PROTECTION.



6" SNAKE BAG SPECIFICATION (NDS MANUFACTURER OR APPROVED EQUAL)
6" SNAKE BAG IS 72"x11". FABRIC STRUCTURE IS WOVEN 34x20 WRAP. FABRIC IS A HIGH VISIBILITY YELLOW COLOR FOR SAFETY. YARN IS 700 DENIER HIGH DENSITY POLYETHYLENE. WATER FLOW IS 100 GALLONS PER SQ. FT. PER MINUTE WHEN EMPTY. ALL SEAMS ARE WOVEN.



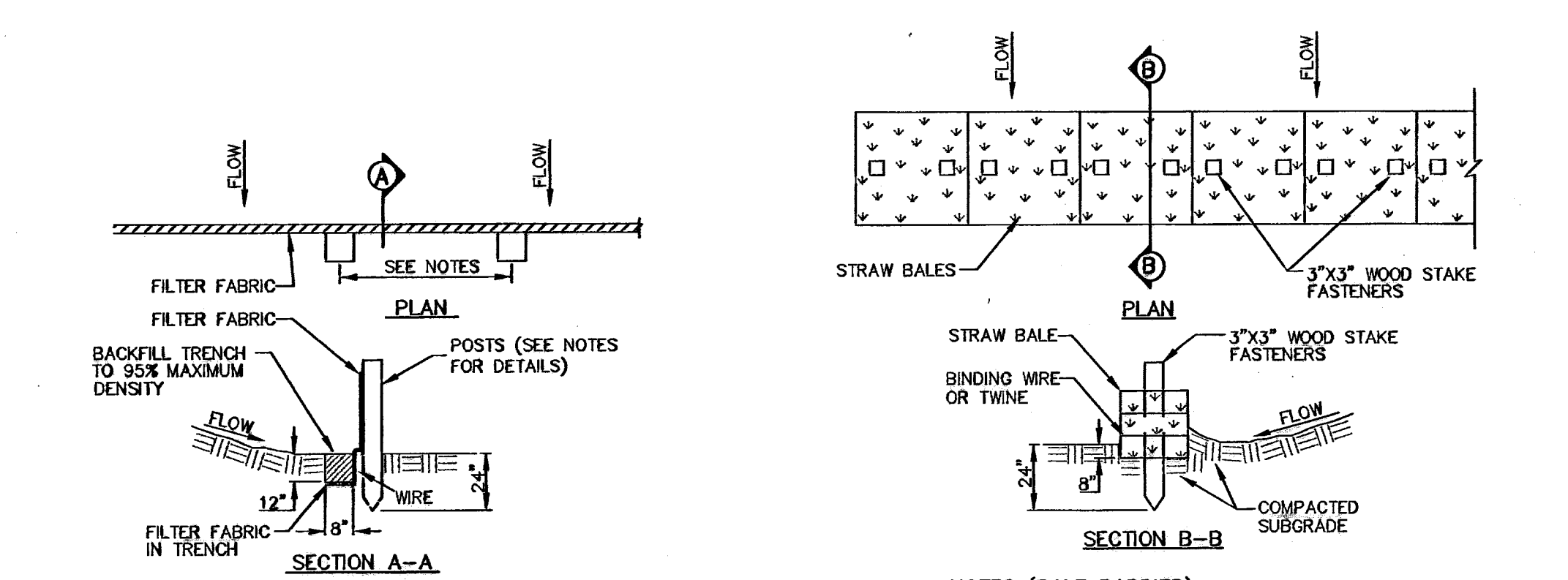
4" SNAKE BAG SPECIFICATION (NDS MANUFACTURER OR APPROVED EQUAL)
4" SNAKE BAG IS 48"x11". FABRIC STRUCTURE IS WOVEN 34x20 WRAP. FABRIC IS A HIGH VISIBILITY YELLOW COLOR FOR SAFETY. YARN IS 700 DENIER HIGH DENSITY POLYETHYLENE. WATER FLOW IS 100 GALLONS PER SQ. FT. PER MINUTE WHEN EMPTY. ALL SEAMS ARE WOVEN.



GRAVEL BAG SPECIFICATION (NDS MANUFACTURER OR APPROVED EQUAL)
GRAVEL BAG IS 19"x28" FROM END TO END. FABRIC STRUCTURE IS WOVEN 34x20 WRAP. FABRIC IS A HIGH VISIBILITY YELLOW COLOR FOR SAFETY. YARN IS 700 DENIER HIGH DENSITY POLYETHYLENE. WATER FLOW IS 100 GALLONS PER SQ. FT. PER MINUTE WHEN EMPTY. ALL SEAMS ARE WOVEN.

STORM WATER POLLUTION PREVENTION PLAN

SCALE: 1"=100'

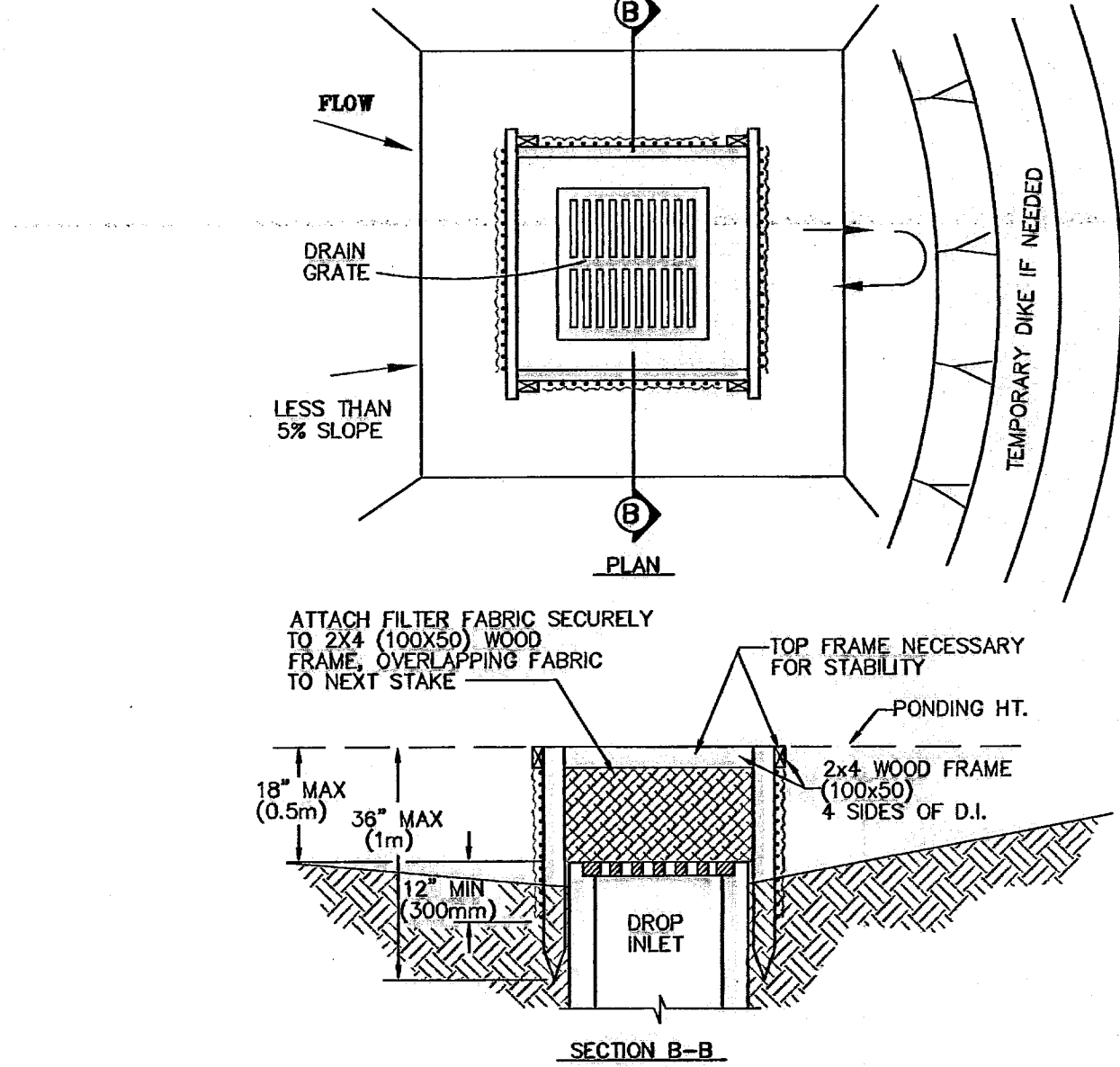


- NOTES:**
1. THE FENCE REQUIRES FREQUENT INSPECTION AND PROMPT MAINTENANCE TO MAINTAIN ITS EFFECTIVENESS.
 2. INSPECT THE FENCE AFTER EACH RAINFALL.
 3. CHECK FOR AREAS WHERE RUN-OFF HAS ERODED A CHANNEL BENEATH THE FENCE, OR WHERE THE FENCE WAS CAUSED TO SAG OR COLLAPSE.
 4. ALL NEEDED REPAIRS SHALL BE PERFORMED IMMEDIATELY.
 5. REMOVE AND PROPERLY DISPOSE OF SEDIMENT WHEN IT IS ONE-THIRD TO ONE-HALF THE HEIGHT OF THE FENCE OR AFTER EACH STORM.
 6. 4" MIN. STEEL OR WOOD POSTS SPACED AT 6' O.C. SOFTWOOD POSTS SHALL HAVE A 3" MIN. DIAMETER OR NOMINAL 2"x4". HARDWOOD POSTS SHALL HAVE A MINIMUM CROSS SECTION OF 1.5"x1.5"

FILTER FENCE
SCALE: 1" = 5'-0"

STRAW BALE BARRIER
N.T.S.

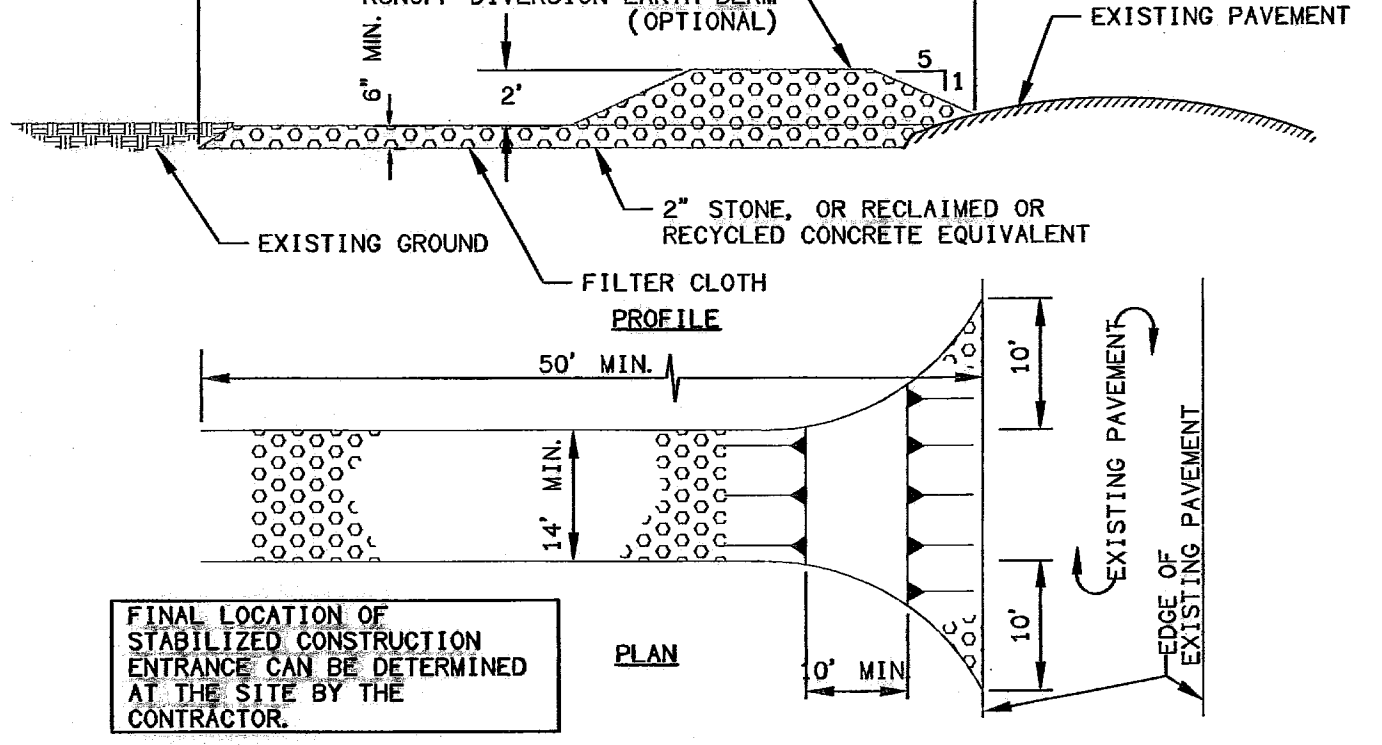
INLET PROTECTION
N.T.S.



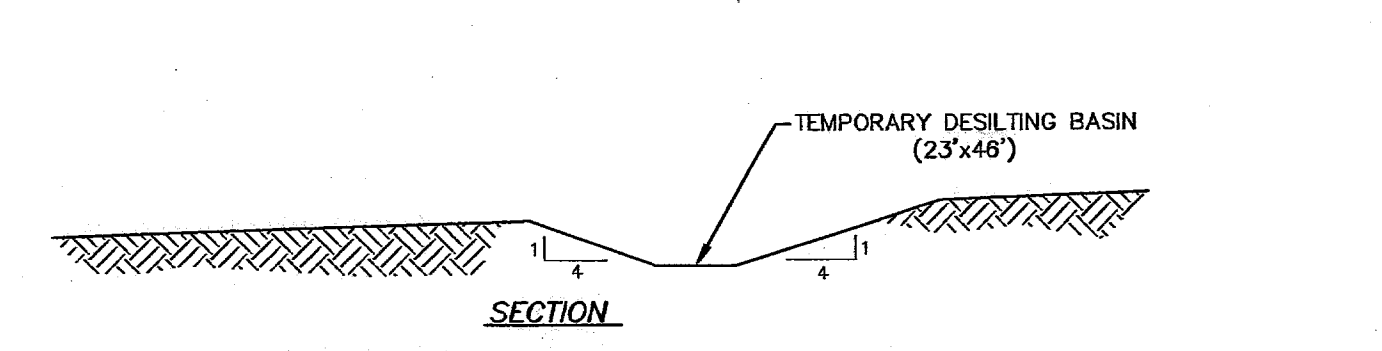
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STABILIZED CONSTRUCTION ENTRANCE
SCALE: 1" = 2'-0"

TEMPORARY DESILTING BASIN
SCALE: 1" = 20'-0"



SNAKE BAGS
N.T.S.



TEMPORARY DESILTING BASIN
SCALE: 1" = 4'

| NO. | DATE | DESCRIPTION | BY |
|-----|----------|---------------------------|-----|
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| 1 | 12/11/07 | 1st City Submittal | JCK |

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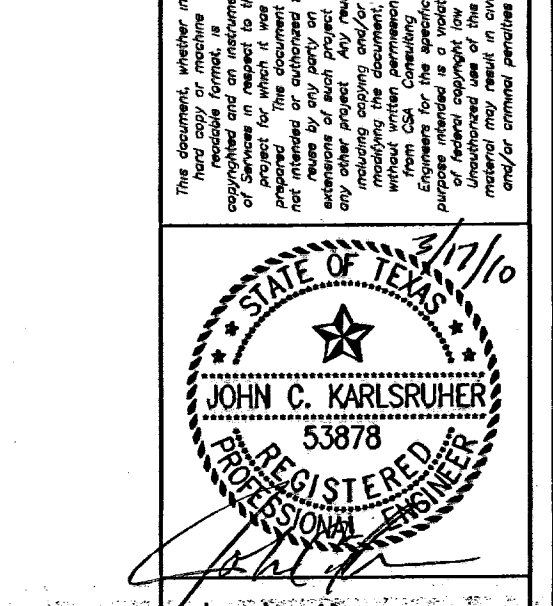
BEFORE YOU DIG - CALL

EL PASO ELECTRIC COMPANY
543-5720
1-800-500-TESS

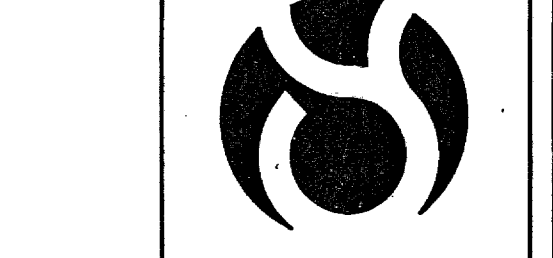
ATLAS GAS SERVICE
562-8417/652-2003
1-800-200-TESS

PSB (WATER & SEWER)
716 W. WARDEN (CABLE CO)
1-800-334-8047
1-800-334-8377

TEXAS EXCAVATION SAFETY SYSTEM



csa design group, inc.
Texas Registered Engineers Firm E-8000
1845 North Eastern Dr., Ste C
El Paso, TX 79912
Tel: (915) 877-4156
Tel: (915) 877-4156
Fax: (915) 877-4334
www.csaengineers.com



CAMPUS PARK UNIT ONE SUBDIVISION

STORM WATER POLLUTION PREVENTION

APPROVED
SWP 06-00287
11/07/07

COB 7008
DO - EC - GB 12/11/07
SCALE BY AS NOTED

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27
RECORD DRAWING

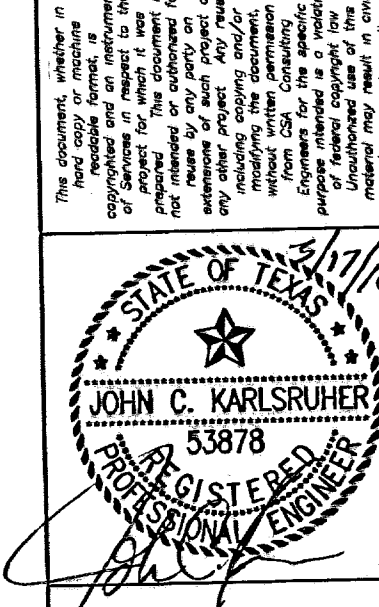
600786

REVISIONS: CITY MONUMENT AT THE CONVERGENCE INTERSECTION OF NORTHWESTERN DRIVE AND PASCO DEL NORTE BOULEVARD DEL PASO COUNTY, TEXAS. ELEVATION = 3886.04 (EL PASO CITY DATUM)

| NO. | DATE | DESCRIPTION | BY |
|-----|----------|---------------------------|-----|
| 6 | 3/17/10 | Revised As-Built Drawings | JCK |
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BEFORE YOU DIG - CALL
EL PASO ELECTRIC COMPANY
943-5720
1-800-660-TESS
248-8411/482-0003
1-800-660-TESS
775-741-8047
1-800-344-8377
TEXAS GAS SERVICE
1-800-660-TESS
775-741-8047
TEXAS WATER & SEWER
1-800-344-8377
TEXAS NATURAL GAS CO.
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csa design group, inc.
Texas Registered Engineering Firm #4007
18445 Northwestern Dr. Ste C
El Paso, Texas 79912
Tel (915) 877 4155
Fax (915) 877 4334
www.csaengineering.com



CAMPUS PARK
UNIT ONE
SUBDIVISION

SHEET TITLE
**STORM
WATER
POLLUTION
PREVENTION**

CSB 7008
DESIGN BY 2/8/08
DG ~ EC ~ GB 12/11/07
DESIGN BY
JCK AS NOTED
SCALE

28

28

NARRATIVE:

CAMPUS PARK UNIT ONE SUBDIVISION
EL PASO, TEXAS

LEGAL DESCRIPTION:

BEING A REPLAT OF A PORTION OF LOT 1,
BLOCK 3, TRANSMOUNTAIN COMMERCIAL
PARK UNIT THREE, CITY OF EL PASO, EL
PASO COUNTY, TEXAS.

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: (P=PERMANENT T=TEMPORARY)

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

OTHER: _____

POST CONSTRUCTION CONTROLS

INLETS, DESILTING BASIN, EARTH BERMS AND
STONE BEDDING CHANNELS AS PER PLAN

ESTIMATED TOTAL SIZE DISTURBED AREA

PROJECT SITE APPROX. 24.539 ACRES
ESTIMATED DISTURBED AREA 24.539 ACRES.

CONSTRUCTION START DATE: _____ CONSTRUCTION END DATE: _____

NARRATIVE - SEQUENCE OF CONSTRUCTION (STORM WATER MANAGEMENT) ACTIVITIES:

1. BEGIN CONSTRUCTION/MOBILIZATION (5 DAYS).
2. INSTALL INITIAL STORMWATER POLLUTION PREVENTIONS (SWPP) MEASURES AS INDICATED ON SWPP PLAN (3 DAYS).
3. CLEAR AND GRUB (2 WEEKS).
4. SITE GRADING (2 MONTHS).
5. PERFORM PERIODIC INSPECTIONS OF THE SWPP STRUCTURES. PERFORM MAINTENANCE AND REPLACEMENTS AS NEEDED (DURATION OF CONSTRUCTION).
6. EXCAVATION FOR SITE UTILITIES AND STORM SEWER (3 MONTHS).
7. CONSTRUCTION OF SITE IMPROVEMENTS AND STORM SEWER (3 MONTHS).
8. END CONSTRUCTION - FINAL STABILIZATION, DEMOBILIZATION, REMOVAL OF SWPP CONTROLS, AND SUBMIT NOTICE OF TERMINATION.

GENERAL CONTRACTOR CERTIFICATION

I CERTIFY UNDER PENALTY OF LAW THAT I UNDERSTAND THE TERMS AND CONDITIONS OF THE TEXAS POLLUTANT DISCHARGE ELIMINATION SYSTEM (TPDES) GENERAL PERMIT THAT AUTHORIZES STORM WATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITY FROM THE CONSTRUCTION SITE IDENTIFIED AS PART OF THIS CERTIFICATION.

SIGNED: _____ COMPANY: _____
NAME: _____ ADDRESS: _____
TITLE: _____ TELEPHONE: _____
DATE: _____

SUB - CONTRACTOR CERTIFICATION

I CERTIFY UNDER PENALTY OF LAW THAT I WILL COORDINATE, EITHER THROUGH THE GENERAL CONTRACTOR, OWNER, OR DIRECTLY WITH THE CONTRACTOR(S) AND/OR SUBCONTRACTOR(S) IDENTIFIED IN THE POLLUTION PREVENTION PLAN HAVING RESPONSIBILITY FOR IMPLEMENTING STORM WATER CONTROL MEASURES, TO MINIMIZE ANY IMPACT MY ACTIONS MAY HAVE ON THE EFFECTIVENESS OF THESE STORM WATER CONTROL MEASURES.

SIGNED: _____ COMPANY: _____
NAME: _____ ADDRESS: _____
TITLE: _____ TELEPHONE: _____
DATE: _____

OPERATOR

SIGNED: _____ COMPANY: _____
NAME: _____ ADDRESS: _____
TITLE: _____ TELEPHONE: _____
DATE: _____

SOIL CONDITIONS

AS THE EXPLORATORY BORINGS INDICATE, THE SOIL UNDERLYING THE SITE GENERALLY CONSISTS OF TWO SOIL STRATA. THE UPPER SOIL STRATUM CONSISTS OF A CLAYEY SILT AND SILT EXTENDING FROM THE GROUND SURFACE TO DEPTHS VARYING FROM 2 TO 8 FEET. THE CLAYEY SILT AND SILT WERE OBSERVED TO HAVE A MODERATELY FIRM TO VERY FIRM CONSISTENCY. THE CLAYEY SILT AND SILT OVERLIE A NON-PLASTIC SILTY SAND. THE FIRM TO VERY FIRM SILTY SAND WAS OBSERVED TO EXTEND BELOW THE UPPER SOIL STRATUM TO THE TOTAL DEPTH OF THE BORINGS.

ENDANGERED SPECIES ACT

NOT LIKELY TO ADVERSELY AFFECT ANY CURRENTLY LISTED FEDERAL THREATENED OR ENDANGERED SPECIES.

HISTORIC PROPERTY SITE

NO KNOWN SITES ELIGIBLE FOR HISTORIC RECORD

AUTHORIZED STORM WATER DISCHARGES

1. STORM WATER ASSOCIATED WITH CONSTRUCTION ACTIVITY.
2. DISCHARGES OF STORM WATER ASSOCIATED WITH CONSTRUCTION SUPPORT ACTIVITIES INCLUDING CONCRETE AND ASPHALT BATCH PLANTS, EQUIPMENT STAGING AREAS, MATERIAL STORAGE YARDS, MATERIAL BORROW AREAS, AND EXCAVATED MATERIAL DISPOSAL AREAS MAY BE AUTHORIZED AS PER TPDES PERMIT NO. TXR1500000, PART II, SECTION A.

AUTHORIZED NON-STORM WATER DISCHARGES

THE FOLLOWING NON-STORM WATER DISCHARGES AREA AUTHORIZED AS PER TPDES PERMIT NO. TXR1500000, PART II, SECTION A.

1. DISCHARGES FROM FIRE FIGHTING ACTIVITIES.
2. FIRE HYDRANT FLUSHING.
3. WATER USED TO CONTROL DUST.
4. WATER LINE FLUSHING.
5. VEHICLE, EXTERNAL BUILDING AND PAVEMENT WASH WATER, FREE OF DETERGENTS AND SOAPS.
6. AIR CONDITIONING CONDENSATE.

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 TRASH DUMPSTER SHALL COMPLY WITH ORDINANCE 1832.010 (ENCLOSURE & 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: PAINTS, 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 THRCO.

III SANITARY WASTE:

ALL SANITARY WASTE SHALL BE COLLECTED FROM THE CONSTRUCTION PORTABLE UNITS AS NECESSARY OR AS REQUIRED, CHAPTER 18.09 (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

POSSIBLE POLLUTANTS ON-SITE

- A. GAS TANK CONTAINERS
 1. INSPECT CONTAINERS FOR LEAKS AND ENSURE LIDS AND CAPS ARE PROPERLY SEALED. DAMAGED TANKS OR CONTAINERS SHALL BE PROPERLY REMOVED/REPLACED AND DISPOSED OF.
- B. LUBRICATING GREASE CONTAINERS
 1. ALL ON-SITE VEHICLES SHALL BE MONITORED FOR LEAKS AND RECEIVE REGULAR PREVENTATIVE MAINTENANCE TO REDUCE CHANCE OF LEAKAGE. DRIP PANS SHALL BE UTILIZED FOR LEAKING VEHICLES AND FOR FLUID DRAINING.
- C. CEMENT DISCHARGE INTO EXISTING STORM SYSTEM
 1. ONSITE INSPECTIONS OF CONCRETE POUR AREAS SHALL BE DONE TO ENSURE THAT CEMENT DOES NOT RUNOFF AND DISCHARGE INTO EXISTING STORM SEWER SYSTEM.

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 SPILL 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

BEST MANAGEMENT PRACTICES CONTROLS

IX MAINTENANCE AND INSPECTION PROCEDURES:

ALL POLLUTION PREVENTION MEASURES SHALL BE INSPECTED AT LEAST ONCE EVERY 7 DAYS OR WITHIN 24-HOURS PRIOR TO ANTICIPATED STORM EVENT AND FOLLOWING A STORM EVENT OF 0.5 INCHES OR MORE. INSPECTION IN FINAL STABILIZED AREAS OR DURING AND PERIODS WILL BE CONDUCTED BI-WEEKLY. BEST MANAGEMENT PRACTICES AND POLLUTION CONTROL PROCEDURES SHALL BE INSPECTED FOR ADEQUACY. A REPORT SUMMARIZING THE SCOPE OF INSPECTION SHALL BE DONE & RETAINED ALONG WITH THE SDPP.

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: _____

MATERIALS WITH CONSTRUCTION SITE:

- _____ HAS BATCH PLANT WITH PROJECT
- _____ HAS ASPHALT PLANT WITH PROJECT
- DOES NOT HAVE BATCH PLANT WITH PROJECT
- DOES NOT HAVE ASPHALT PLANT WITH PROJECT

OWNER CERTIFICATION

I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHERED AND EVALUATED THE INFORMATION TO ASSURE THAT NO MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM, OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION, THE INFORMATION SUBMITTED IS, TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS.

OWNER: SIGNED _____ DATE _____

OWNER: NAME _____ DATE _____

TITLE _____ DATE _____

GENERAL NOTES

1. CONTRACTOR TO PROVIDE A CONSTRUCTION SIGN ONSITE, CONSPICUOUSLY NEAR MAIN ENTRANCE, WITH A COPY OF N.O.I. POSTED.
2. CONTRACTOR TO DESIGNATE A QUALIFIED COMPETENT PERSON TO INSPECT AND RECORD SWSP AND BMP INSPECTION IN ACCORDANCE TO SITE INSPECTION REPORT.
3. CONTRACTOR TO KEEP ORIGINAL N.O.I. AND INSPECTION REPORTS ON SITE AT ALL TIMES.
4. CONTRACTOR SHALL BE RESPONSIBLE TO MAINTAIN A CLEAN WORK SITE.
5. CONTRACTOR MUST KEEP RECORD OF IMPORTANCE DATES SUCH AS, BUT NOT LIMITED TO, MAJOR GRADING ACTIVITIES, CONSTRUCTION TEMPORARILY OR PERMANENTLY WORK CEASED, STABILIZATION MEASURES INITIATED.
6. CONTRACTOR SHALL KEEP A COPY OF TPDES PERMIT TXR 15000 ONSITE

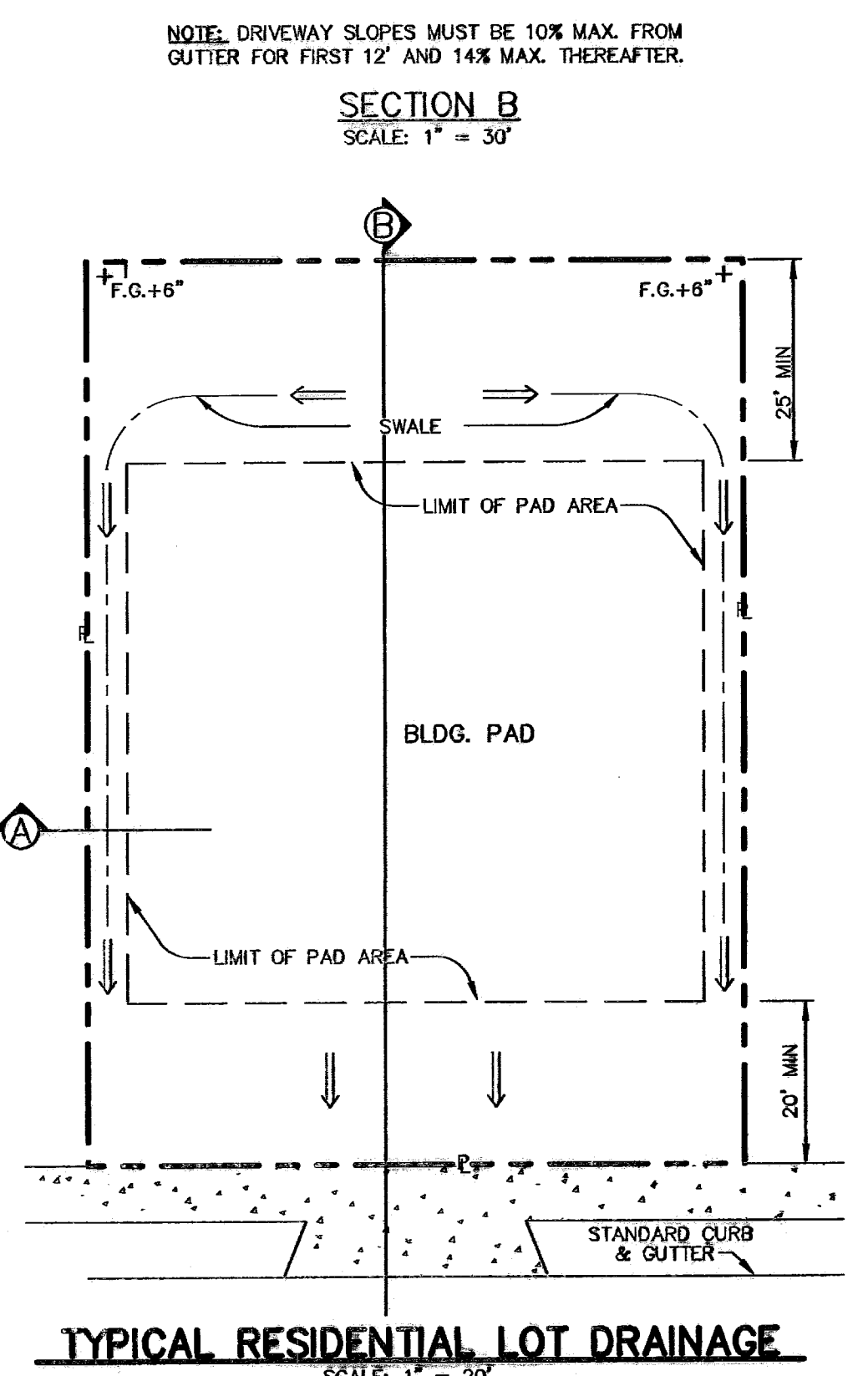
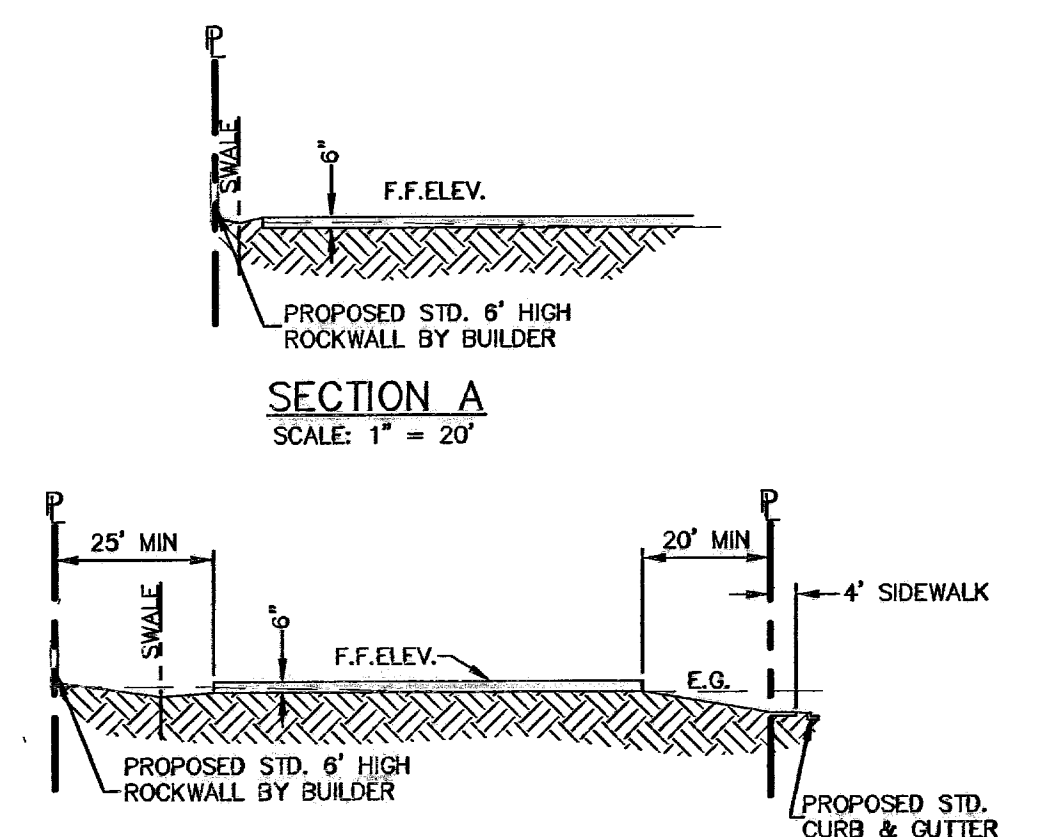
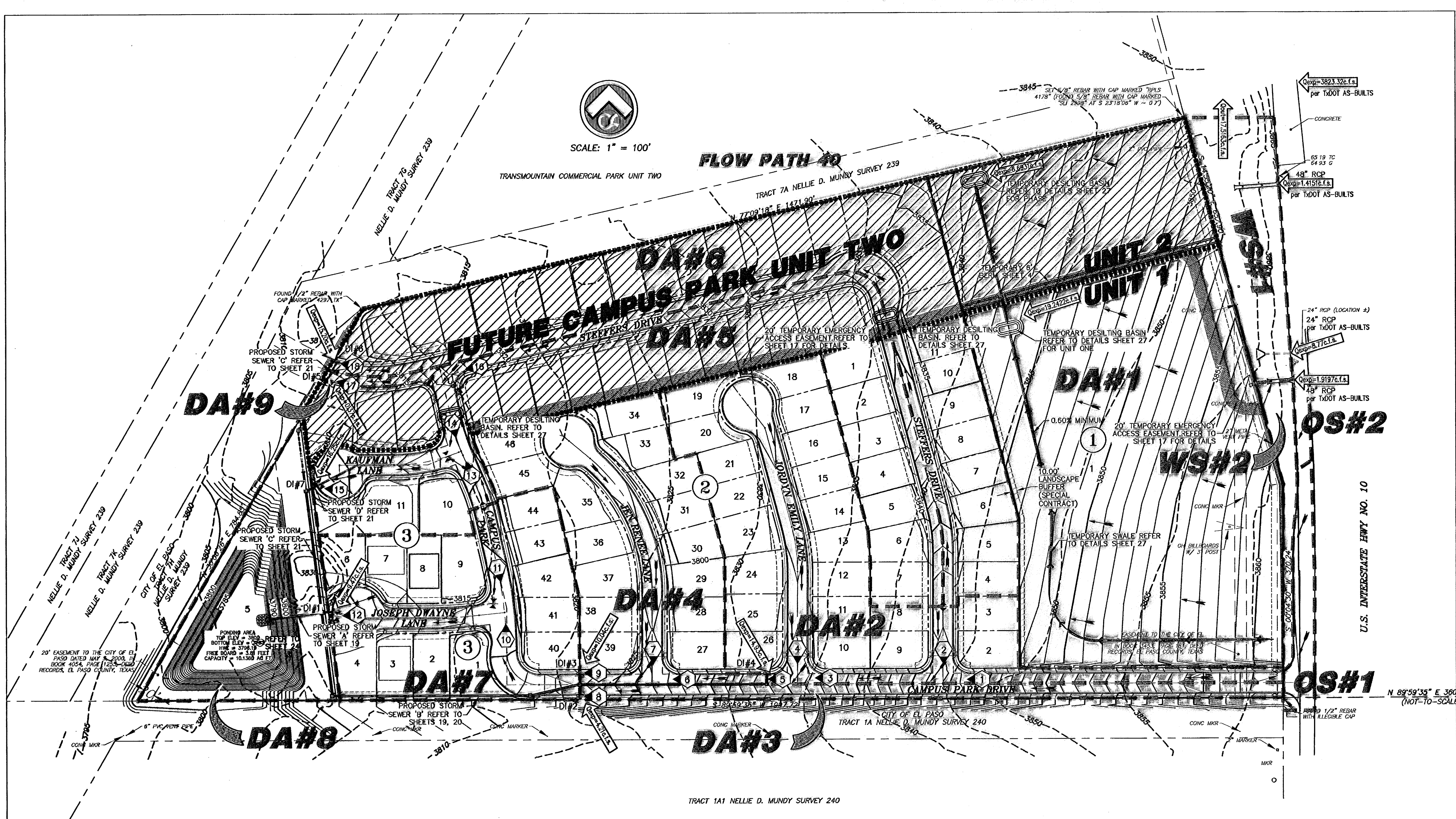
NOTE:
CONTRACTOR SHALL ENSURE COMPLIANCE WITH SWSP AND TPDES PERMIT TXR 15000. PERMIT TXR 15000 IS LOCATED AND CAN BE VIEWED WITH THE CIVIL ENGINEER - CSA CONSULTING ENGINEERS, 1845 NORTHWESTERN DR, SUITE C, EL PASO, TX. 79912.

600786

APPROVED
SWP 06-00287
11/07/07

THESE RECORD DRAWINGS HAVE BEEN PREPARED IN ACCORDANCE WITH THE INFORMATION PROVIDED BY THE DEVELOPER AS WELL AS INFORMATION GATHERED FROM ONE-SITE VISITS AND SURVEY INFORMATION. ACCURACY OF THE INFORMATION PROVIDED BY OTHERS IS NOT WARRANTED BY THIS FIRM.

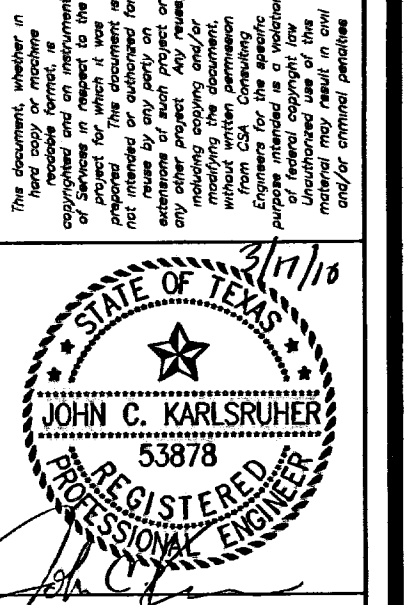
RECORD DRAWING



| NO. | DATE | DESCRIPTION | BY |
|-----|----------|---------------------------|-----|
| 1 | 12/11/07 | 1st City Submittal | JCK |
| 2 | 1/28/08 | 2nd City Submittal | JCK |
| 3 | 2/14/08 | Final Submittal | JCK |
| 4 | 9/26/08 | As-Built Drawings | JCK |
| 5 | 9/14/09 | Revised As-Built Drawings | JCK |
| 6 | 3/17/10 | Revised As-Built Drawings | JCK |

WARNING!
BEFORE YOU DIG
 CONTRACTOR SHALL
 FIELD LOCATE ALL
 EXISTING UNDERGROUND
 IMPROVEMENTS IN
 PROJECT AREA

BEFORE YOU DIG - CALL
 EL PASO ELECTRIC COMPANY
 543-5720
 1-800-606-TESS
 TEXAS GAS SERVICE
 544-6300
 1-800-606-TESS
 PWS (WATER & SEWER)
 775-7414
 1-800-344-8577
 EL PASO NATURAL GAS CO.
 1-800-344-8577
 TEXAS EVAPORATION SAFETY SYSTEM



NOTE:
 THIS SUBDIVISION LIES WITHIN SPECIAL FLOOD HAZARD ZONES "A AND X" AS DESIGNATED BY THE FLOOD INSURANCE RATE MAP (F.I.R.M.), CITY OF EL PASO, SEPTEMBER 04, 1991 PANEL NUMBER 480212 0025 B AND WITHIN SPECIAL FLOOD HAZARD ZONES "A, B, AND C" FLOOD INSURANCE RATE MAP (F.I.R.M.), CITY OF EL PASO, FEBRUARY 05, 1986 PANEL NUMBER 480214 0016 C.

STREET CARRYING CAPACITY COMPUTATIONS
 (FOR FULLY DEVELOPED CONDITIONS AND INCLUDING THE FUTURE SUBDIVISION UNITS)

| SPOT | STREET NAME | STATION | DESIGN AREA (Ac) | AVERAGE Q ^a | VEL. | L (ft.) | T _c | Q 100 (IN/HR) | Q 100 (GFS) | ADDITIONAL FLOW | Q 100 TOTAL | SLOPE (FT/FT) | Q cap (GFS) | DEPTH (IN) | MOMENTUM |
|------|---------------|----------|------------------|------------------------|------|---------|----------------|---------------|-------------|-----------------|-------------|---------------|-------------|------------|----------|
| 1 | CAMPUS PARK | 5+60.08 | 0.40 | 0.90 | 3.51 | 941 | 10.0 | 5.14 | 1.85 | NONE | 1.85 | 0.0509 | 34.34 | 1.20 | 0.3510 |
| 2 | STEFFERS LANE | 0+73.00 | 0.69 | 0.60 | 2.66 | 74 | 10.0 | 5.14 | 2.13 | NONE | 2.13 | 0.0139 | 18.67 | 2.16 | 0.4788 |
| 3 | CAMPUS PARK | 8+14.06 | 0.14 | 0.90 | 2.98 | 241 | 10.0 | 5.14 | 0.65 | ① AND ② | 4.63 | 0.0300 | 38.41 | 1.44 | 0.3576 |
| 4 | JORDYN EMILY | 0+73.00 | 3.22 | 0.60 | 4.47 | 8477 | 10.0 | 5.14 | 9.93 | NONE | 9.93 | 0.0188 | 204.09 | 3.72 | 1.3857 |
| 5 | CAMPUS PARK | 9+40.89 | 0.08 | 0.90 | 4.22 | 102 | 10.0 | 5.14 | 0.37 | ③ AND ④ | 14.93 | 0.0300 | 30.45 | 2.04 | 0.7174 |
| 6 | CAMPUS PARK | 10+68.08 | 0.08 | 0.90 | 2.00 | 152 | 10.0 | 5.14 | 0.28 | NONE | 0.28 | 0.0400 | 30.45 | 0.60 | 0.1000 |
| 7 | JEN RENEE | 0+73.00 | 3.00 | 0.60 | 5.89 | 570 | 10.0 | 5.14 | 9.25 | NONE | 9.25 | 0.0206 | 153.55 | 3.24 | 1.5903 |
| 8 | CAMPUS PARK | 12+42.68 | 0.91 | 0.90 | 2.72 | 162 | 10.0 | 5.14 | 4.21 | NONE | 4.21 | 0.0148 | 18.52 | 2.16 | 0.4898 |
| 9 | CAMPUS PARK | 12+42.68 | 0.11 | 0.90 | 3.37 | 1289 | 10.0 | 5.14 | 0.51 | ⑤ AND ⑦ | 10.04 | 0.0148 | 108.17 | 2.88 | 0.8088 |
| 10 | CAMPUS PARK | 14+37.07 | 0.41 | 0.60 | 1.27 | 194 | 10.0 | 5.14 | 1.26 | NONE | 1.26 | 0.0180 | 178.68 | 0.12 | 0.0127 |
| 11 | CAMPUS PARK | 15+61.41 | 0.61 | 0.60 | 1.71 | 274 | 10.0 | 5.14 | 1.88 | NONE | 1.88 | 0.0105 | 181.44 | 1.20 | 0.1710 |
| 12 | JOSEPH DWAYNE | 3+01.09 | 2.05 | 0.60 | 4.88 | 438 | 10.0 | 5.14 | 6.32 | ⑩ AND ⑪ | 9.47 | 0.0397 | 59.48 | 2.40 | 0.9720 |
| 13 | CAMPUS PARK | 17+80.23 | 0.07 | 0.60 | 1.47 | 56 | 10.0 | 5.14 | 0.22 | NONE | 0.22 | 0.0184 | 179.85 | 0.72 | 0.0882 |
| 14 | CAMPUS PARK | 18+61.44 | 0.13 | 0.60 | 4.03 | 93 | 10.0 | 5.14 | 0.40 | ⑫ | 11.29 | 0.0239 | 408.97 | 0.12 | 0.0403 |
| 15 | KAUFMAN LANE | 2+63.40 | 1.54 | 0.60 | 5.36 | 339 | 10.0 | 5.14 | 4.75 | ⑬ AND ⑭ | 18.25 | 0.0360 | 71.02 | 0.30 | 1.3400 |
| 16 | STEFFERS LANE | 14+44.02 | 3.53 | 0.60 | 4.36 | 1375 | 10.0 | 5.14 | 10.89 | NONE | 10.89 | 0.0278 | 110.38 | 2.64 | 0.9592 |
| 17 | STEFFERS LANE | 16+89.96 | 0.12 | 0.60 | 4.74 | 192 | 10.0 | 5.14 | 0.37 | NONE | 0.37 | 0.0278 | 161.58 | 0.96 | 0.3792 |
| 18 | STEFFERS LANE | 16+79.88 | 4.93 | 0.60 | 4.41 | 1658 | 10.0 | 5.14 | 15.20 | NONE | 15.20 | 0.0278 | 178.39 | 3.24 | 1.1907 |

* INCLUDES OFFSITE
 † INVERTED CROWN

COMPUTATIONS BASED ON RATIONAL FORMULA Q=CIA
TWENTY FIVE YEAR STORM FREQUENCY

| DRAINAGE AREA No. | ACRES | TIME OF CONCENTRATION | RUNOFF COEFFICIENT | INTENSITY (I) | DISCHARGE (Q) IN C.F.S. |
|-------------------|--------|-----------------------|--------------------|---------------|-------------------------|
| DA #1 | 9.7651 | 10.0 | 0.85 | 5.14 | 42.6635* |
| DA #2 | 4.4263 | 10.0 | 0.60 | 5.14 | 13.6507 |
| DA #3 | 0.7343 | 10.0 | 0.90 | 5.14 | 3.3969 |
| DA #4 | 3.1770 | 10.0 | 0.60 | 5.14 | 9.7972 |
| DA #5 | 5.2900 | 10.0 | 0.60 | 5.14 | 16.3145 |
| DA #6 | 4.9345 | 10.0 | 0.60 | 5.14 | 15.2179 |
| DA #7 | 3.0698 | 10.0 | 0.60 | 5.14 | 9.4872 |
| DA #8 | 2.0150 | 10.0 | 0.67 | 5.14 | 6.9392 |
| DA #9 | 0.0821 | 10.0 | 0.90 | 5.14 | 0.3797 |
| OS #1 | 0.3665 | 10.0 | 0.90 | 5.14 | 1.6955 |
| OS #2 | 0.0883 | 10.0 | 0.90 | 5.14 | 0.4084* |
| WS #1 | 1.1576 | 10.0 | 0.67 | 5.14 | 3.8864* |
| WS #2 | .3180 | 10.0 | 0.67 | 5.14 | 1.0953* |

PLAT ACREAGE = DRAINAGE AREAS 1 THRU 9
 *DISCHARGED INTO CUMMINGS DRAINAGE CHANNEL NORTH OF SUBDIVISION.
 ALLOWABLE BYPASS CALCULATED BASED ON 15.66 ACRES x 0.67 x 5.14 FOR A MAXIMUM OF 53.9299 cfs. POND HAS BEEN SIZED TO ACCOMMODATE ADDITIONAL RUNOFF PENDING DESIGN OF COMMERCIAL SITE.

DROP INLETS

| DROP INLET No. | TYPE AND NUMBER OF GRATES | REQUIRED FLOW CAPACITY Q REQ'D (C.F.S.) | AVAILABLE FLOW CAPACITY Q AVAIL. (C.F.S.) | FLOW BYPASS |
|--------------------------|---------------------------|---|---|-------------|
| DI #1 | TYPE II, 2 GRATE | 9.47 | 13.03 | 0 c.f.s. |
| DI #2= (DA #3 & 1/2 OS1) | TYPE I, 4 GRATE | 4.21 | 39.42 | 0 c.f.s. |
| DI #3 | TYPE I, 4 GRATE | 10.04 | 39.42 | 0 c.f.s. |
| DI #4= (DA #2 & 1/2 OS1) | TYPE I, 4 GRATE | 14.93 | 39.42 | 0 c.f.s. |
| DI #5 | TYPE I, 2 GRATE | 0.37 | 19.71 | 0 c.f.s. |
| DI #6 | TYPE I, 3 GRATE | 15.20 | 29.57 | 0 c.f.s. |
| DI #7 | TYPE II, 4 GRATE | 16.25 | 28.05 | 0 c.f.s. |

REFER TO SHEET 23 FOR INLET CALCULATIONS

POND CALCULATION

$$ARC = AREA * RATE * COEFFICIENT$$

$$= 24.1102 * 4.00 * 0.60$$

$$ARC = 57.8645$$

$$ARC = Q_{cap} \frac{ARC}{12}$$

$$\frac{24.1102 * 4.00 * .60}{12} = 4.8220 \text{ AcFt} = Q_{cap}$$

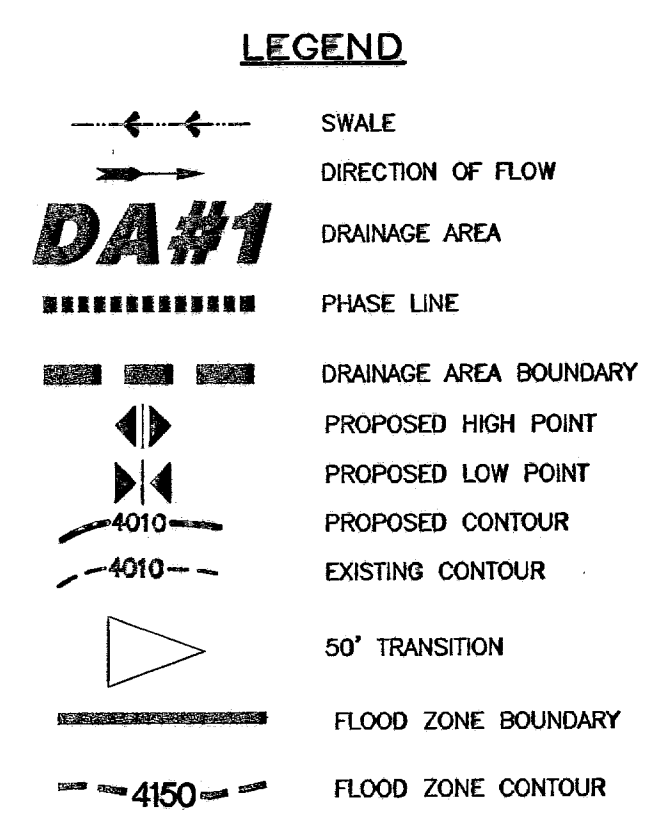
$$ARC * 1.25 + (A * .012) = Q_{red}$$

$$Q_{red} = (ARC/12) * 1.25 + (AREA * .012)$$

$$= (57.8645/12) * 1.25 + (24.1102 * .012)$$

$$Q_{red} = 6.3169 \text{ AC. FT.}$$

REFER TO SHEET 24 FOR POND CAPACITY BY ELEVATION



csa design group, inc.
 Texas Registered Engineering Firm Permit
 1845 Northwestern Dr. Ste C
 El Paso, Texas 79912
 Tel (915) 877.4155
 Fax (915) 877.4334
 www.csaengineers.com

CAMPUS PARK UNIT ONE SUBDIVISION

SHEET TITLE

DRAINAGE PLAN

DATE: 7/11/07
 DRAWN BY: JCK
 CHECKED BY: AS NOTED

3

28

600786

THESE RECORD DRAWINGS HAVE BEEN PREPARED IN ACCORDANCE WITH THE DOCUMENTATION PROVIDED BY THE DEVELOPER AS WELL AS INFORMATION GATHERED FROM ON-SITE VISITS AND SURVEY INFORMATION. ACCURACY OF THE INFORMATION PROVIDED BY OTHERS IS NOT WARRANTED BY THIS FIRM.

RECORD DRAWING

- OVERSPILL ON NATURAL SLOPES CAUSED BY GRADING OPERATIONS SHALL NOT BE ALLOWED.
- DEVELOPER SHALL STABILIZE SLOPES, IF DISTURBED, TO MINIMIZE EROSION.
- NO CONCENTRATED RUNOFF OVER UNPROTECTED SLOPES SHALL BE ALLOWED.
- A SIX-FOOT HIGH ROCK WALL, FROM HIGH SIDE, AT THE CUMMINGS DRAIN (TRACT 7A NELLIE D. MUNDY SURVEY 239, NORTH OF THE SUBDIVISION) SHALL BE REQUIRED.
- DEVELOPER SHALL COMPLY WITH SECTION 13.03.170 OF THE SUBDIVISION ORDINANCE; "EXCESSIVE CUTS ON STREETS MAY RESULT IN REPAVING THE ENTIRE STREET."
- PHASE 1 GRADING ONLY TO BE PERFORMED AT THIS TIME, HOWEVER A 20' TEMPORARY EMERGENCY ACCESS EASEMENT TO BE PLACED OUTSIDE OF PHASE 1 ALONG WITH A 3' BENCH FROM THE REAR OF LOTS ALONG THE PHASE LINE. ALL ROADS, CURB AND GUTTER AND SIDEWALK TO BE TRUNCATED AT THE PHASE LINE AND WILL BE EXTENDED TO COMPLETION AS SHOWN AT A LATER DATE. TEMPORARY GUARDRAILS WITH DEAD END SIGNAGE TO BE INSTALLED UNTIL PHASE 2 GRADING IS PERFORMED.
- A 5' BENCH WILL BE REQUIRED FROM PROPOSED ROCK WALLS / RETAINING WALLS TO TOP AND/OR TOE OF SLOPE.

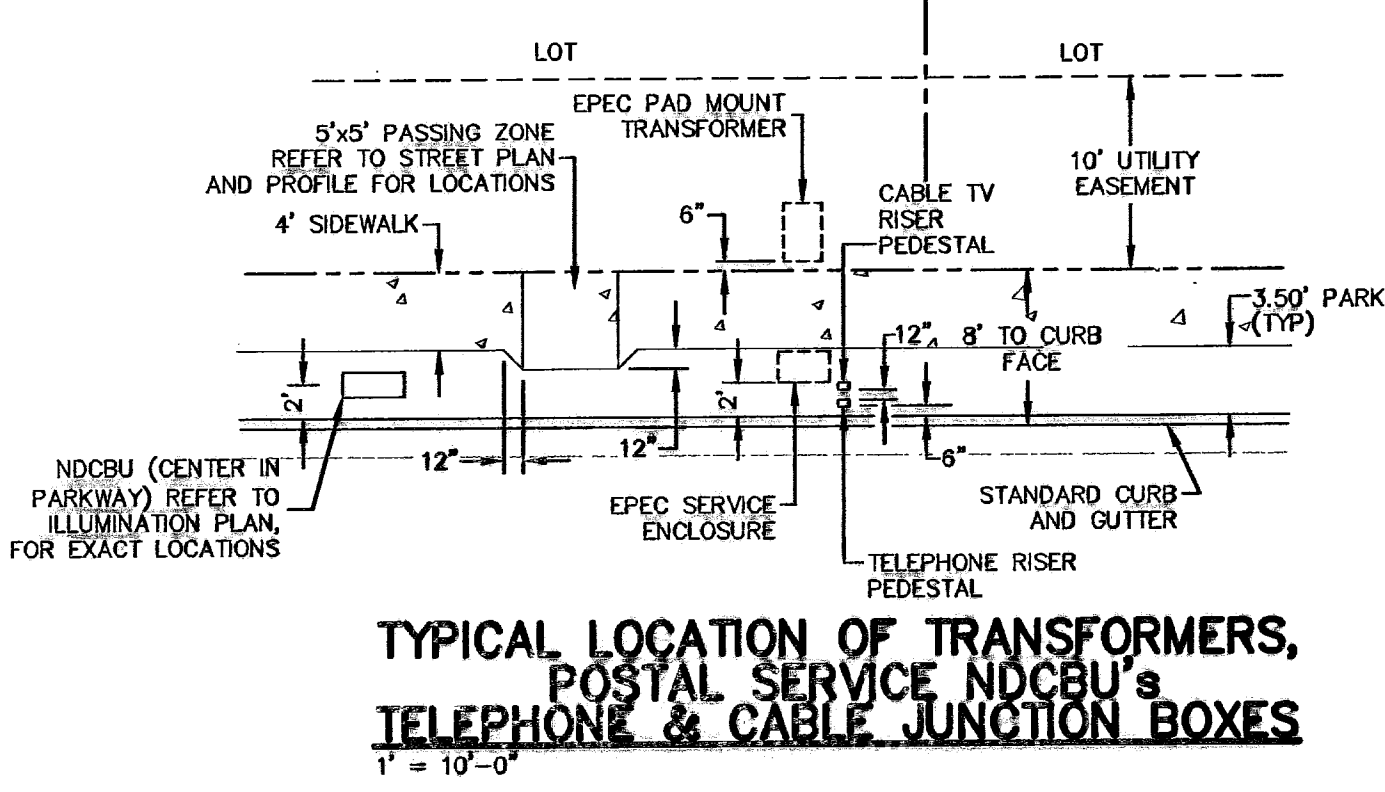
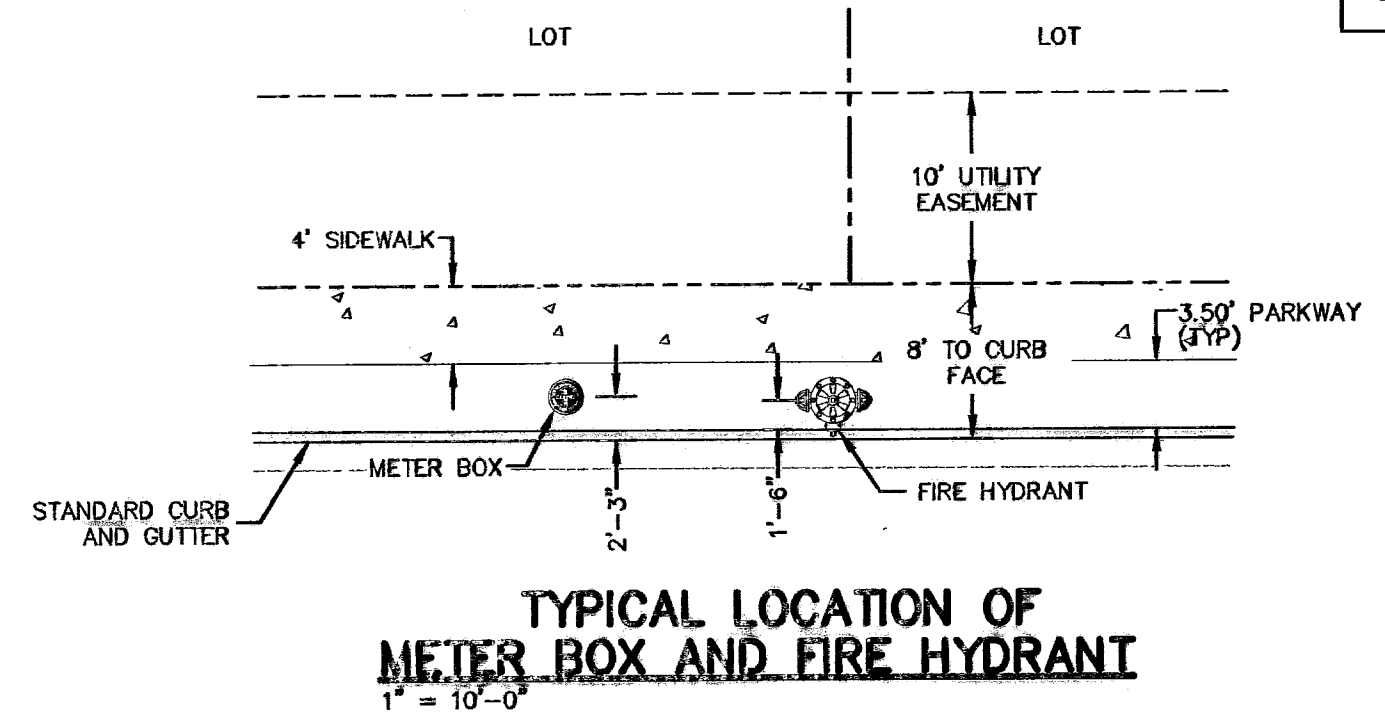
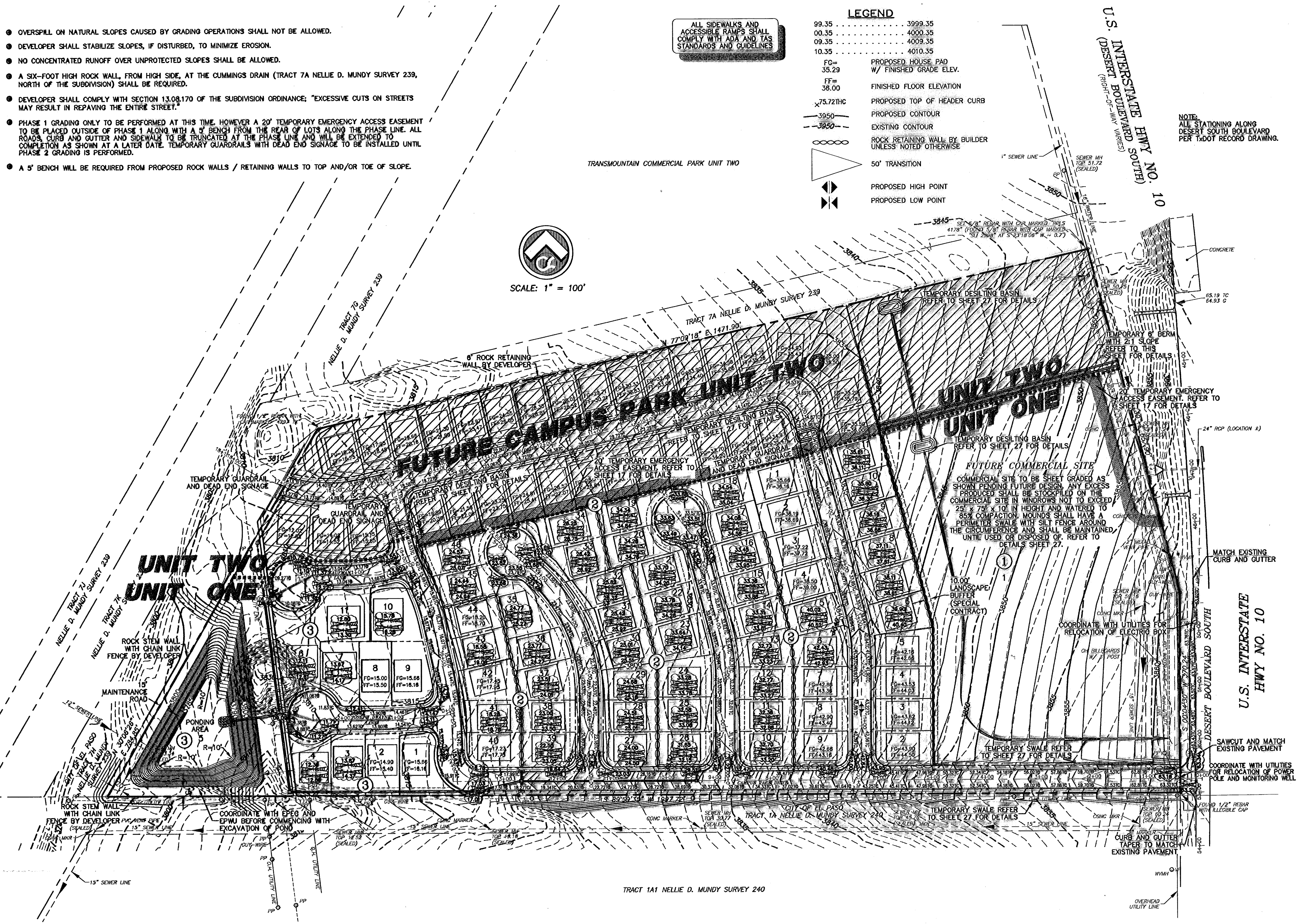
ALL SIDEWALKS AND ACCESSIBLE RAMPS SHALL COMPLY WITH ADA AND TAS STANDARDS AND GUIDELINES

- LEGEND**
- 99.35 3999.35
 - 00.35 4000.35
 - 09.35 4009.35
 - 10.35 4010.35
 - FG= 35.29
 - FF= 38.00
 - X.75.72HC
 - 1950
 - 3850
 - 50' TRANSITION
 - PROPOSED HIGH POINT
 - PROPOSED LOW POINT

NOTE: ALL STATIONING ALONG DESERT SOUTH BOULEVARD PER TPOD RECORD DRAWING.

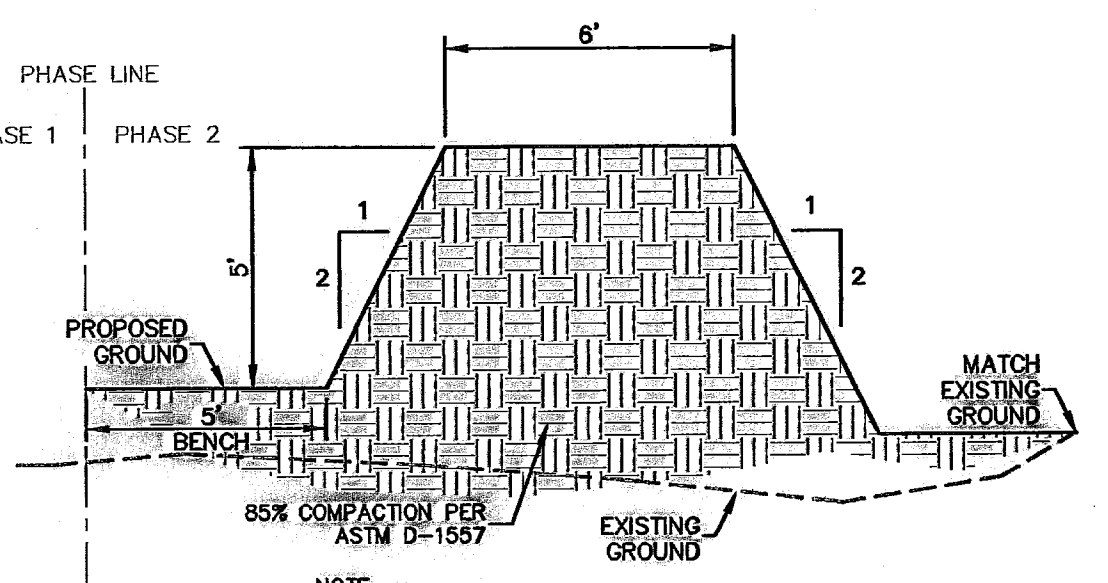
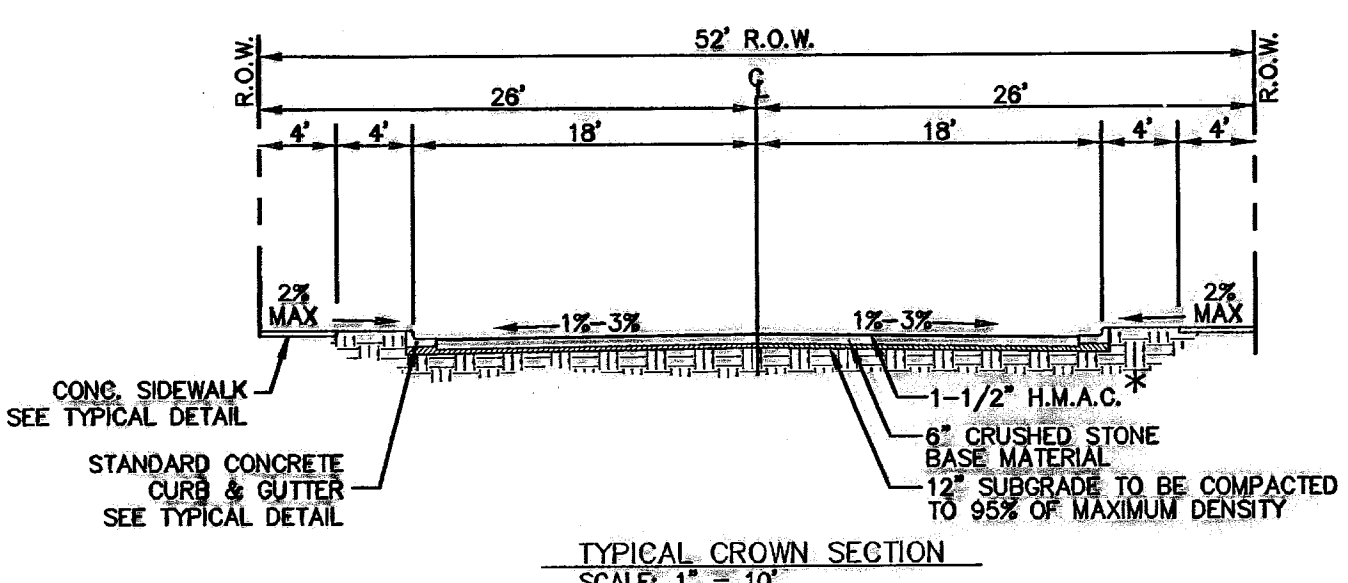


SCALE: 1" = 100'



- METER BOX NOTES:**
- SET TOP OF METER BOX SLIGHTLY HIGHER THAN SURROUNDING GROUND OR AT CURB LEVEL.
 - ANGLE VALVE SHALL BE IN LINE WITH THE INLET/OUTLET PORTS OF THE METER BOX.
 - METER BOXES SHALL NOT BE INSTALLED UNDER SIDEWALKS, DRIVEWAYS, OR PROPOSED ABOVE GROUND STRUCTURES.
 - WHERE NO CURB EXIST, INSTALL BOXES IN ACCESSIBLE LOCATIONS BEYOND LIMITS OF STREET SURFACING, WALKS AND DRIVEWAYS.
- FIRE HYDRANT NOTES:**
- FIRE HYDRANT SHALL BE LOCATED AT THE PROPERTY LINE COMMON TO ADJOINING LOTS.
 - A MINIMUM CLEARANCE OF 3 FT SHALL BE PROVIDED BETWEEN A FIRE HYDRANT AND A PERMANENT OBSTRUCTION (UTILITY POLE, LIGHT STANDARD, TRAFFIC SIGNAL, WHEEL CHAIR RAMP, FENCE PROTECTIVE POSTS, etc.)

- GENERAL NOTES:**
- LOCATIONS OF ALL UTILITIES SHOWN ON THIS PLAN ARE APPROXIMATE. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO CONTACT ALL UTILITY COMPANIES FOR THE EXACT LOCATION OF UNDERGROUND AND OVERHEAD UTILITIES INCLUDING UTILITIES NOT SHOWN ON PLANS. THE CONTRACTOR SHALL PROTECT ALL EXISTING UNDERGROUND AND OVERHEAD UTILITIES AND ANY UTILITIES NOT SHOWN ON THIS PLAN DURING CONSTRUCTION. THE CONTRACTOR WILL PERFORM ALL UTILITY INSTALLATION, REMOVAL AND RELOCATION'S AS PER LOCAL UTILITY CONSTRUCTION SPECIFICATIONS. ANY UTILITIES DAMAGED DURING CONSTRUCTION SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.
 - CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL DIMENSIONS AND ELEVATIONS ON SITE AND SHALL CONTACT THE DESIGN ENGINEER AND REPORT ANY DISCREPANCIES, OMISSIONS AND/OR ERRORS ON PLANS PRIOR TO COMMENCING WORK.
 - ALL CONSTRUCTION TO BE COMPLETED IN ACCORDANCE WITH THE CITY OF EL PASO STANDARD SPECIFICATIONS AND DETAILS.
 - CONTRACTOR SHALL PERFORM ALL EARTHWORK REQUIREMENTS AS PER GEOTECHNICAL STUDY REPORT.
 - INSTALL A TRENCH SAFETY SYSTEM FOR ALL TRENCHES EXCEEDING A DEPTH OF FIVE FEET (5') AS PER OSHA STANDARDS.
 - SLOPES WHICH ARE TO RECEIVE FILL MUST BE CLEARED OF ALL VEGETATION.
 - POSITIVE DRAINAGE SHALL BE PROVIDED BY CONTRACTOR DURING ALL PHASES OF CONSTRUCTION AND GRADING. LOTS SHOULD DRAIN TOWARD STREET.
 - CONTRACTOR SHALL BE RESPONSIBLE FOR THE PREPARATION AND SUBMITTAL OF ALL PERMITTING NECESSARY FOR EARTHWORK OPERATIONS AND STORM WATER POLLUTION CONTROL.
 - NOTE TO BUILDERS: RETAINING WALLS MUST BE PROVIDED WHENEVER THE GRADE DIFFERENTIAL BETWEEN LOT GRADES IS GREATER THAN 2.0 FEET. WALLS MUST BE DESIGNED AND CERTIFIED BY A CIVIL ENGINEER (FOR APPROVAL) WHEN APPLYING FOR A BUILDING PERMIT.
 - EXISTING CONTOURS, PROPOSED CONTOURS AND ELEVATIONS ARE PROVIDED TO CITY DATUM.



FINAL
Grading Permit
Number GRA07-00410
ISSUED 08-16-07

GRADING OF THE COMMERCIAL SITE WILL NOT BE ESTABLISHED UNTIL THE COMMERCIAL SITE DESIGN IS FINALIZED. A SECONDARY DRIVEWAY LOCATION FOR THE COMMERCIAL SITE FROM SOUTH DESERT BOULEVARD IS UNDER CONSIDERATION AND MAY BE INCLUDED AT A LATER DATE.

THESE RECORD DRAWINGS HAVE BEEN PREPARED IN ACCORDANCE WITH THE DOCUMENTATION PROVIDED BY THE DEVELOPER, AS WELL AS INFORMATION GATHERED FROM ON-SITE VISITS AND SURVEY INFORMATION. ACCURACY OF THE INFORMATION PROVIDED BY OTHERS IS NOT WARRANTED BY THIS FIRM.

RECORD DRAWING

WARNING! BEFORE YOU DIG CONTRACTOR SHALL FIELD LOCATE ALL EXISTING UNDERGROUND IMPROVEMENTS IN PROJECT AREA

BEFORE YOU DIG - CALL

EL PASO ELECTRIC COMPANY
543-5720
1-800-368-TESS
AT&T TEXAS GAS SERVICE
562-8411/666-2003
P&S (WATER & SEWER)
1-800-DIG-TESS
THE WARNER CABLE CO.
1-800-334-8047
TEXAS EXCAVATION SAFETY SYSTEM
1-800-334-8377

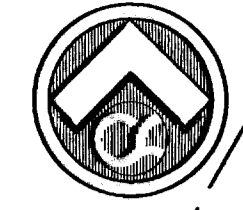
STATE OF TEXAS
3/17/07
JOHN C. KARLSRUHER
53878
REGISTERED PROFESSIONAL ENGINEER
CIVIL

csa design group, inc.
Texas Professional Engineers Firm E-008
1845 Northwestem Dr. Ste C
El Paso, Texas 79912
Tel: (915) 877-4155
Fax: (915) 877-4834
www.csaengineers.com

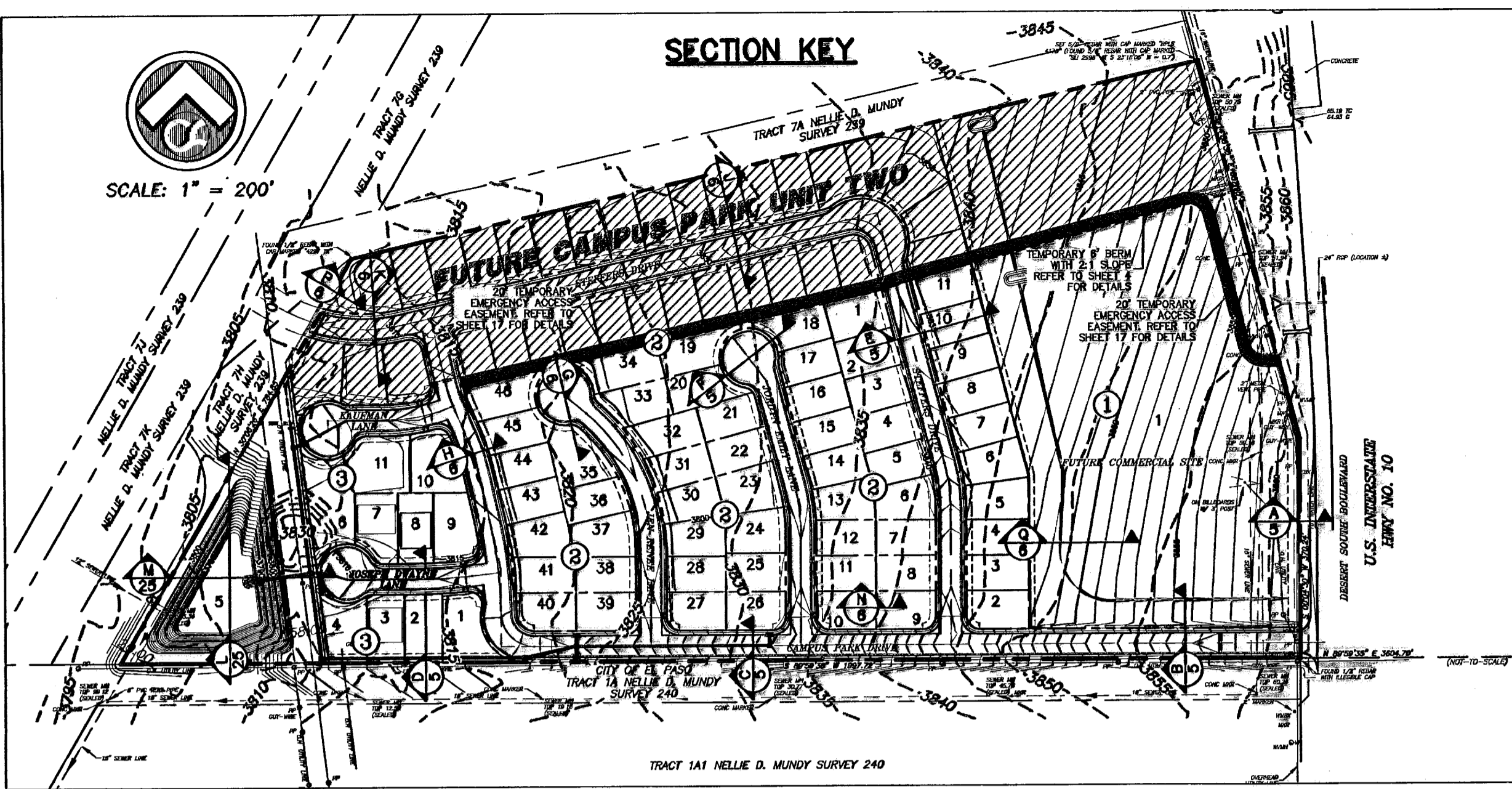
CAMPUS PARK UNIT ONE SUBDIVISION
SHEET TITLE
GRADING PLAN

COB 7008
DESIGNED BY EC-CB 12/11/07
DRAWN BY JCK AS NOTED
CHECKED BY JCK AS NOTED
SCALE 4
BY JCK
REVISIONS:
6 3/17/07 Revised As-Built Drawings
5 9/14/08 Revised As-Built Drawings
4 9/26/08 As-Built Drawings
3 2/14/08 Final Submittal
2 1/28/08 2nd City Submittal
1 12/11/07 1st City Submittal

600786

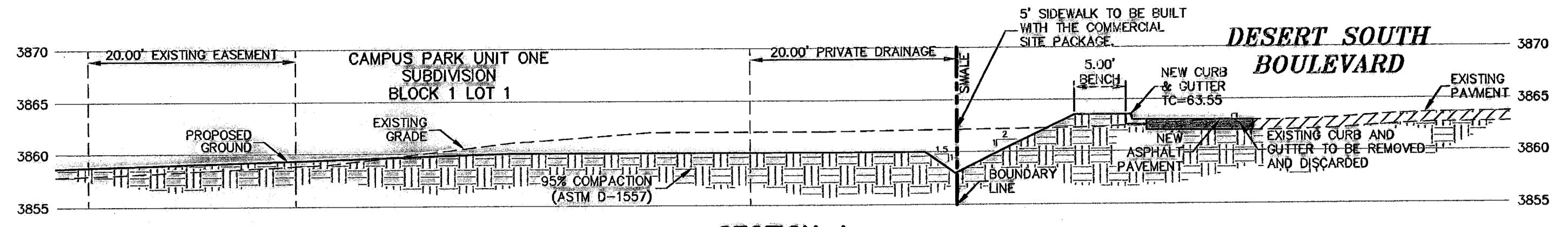


SECTION KEY

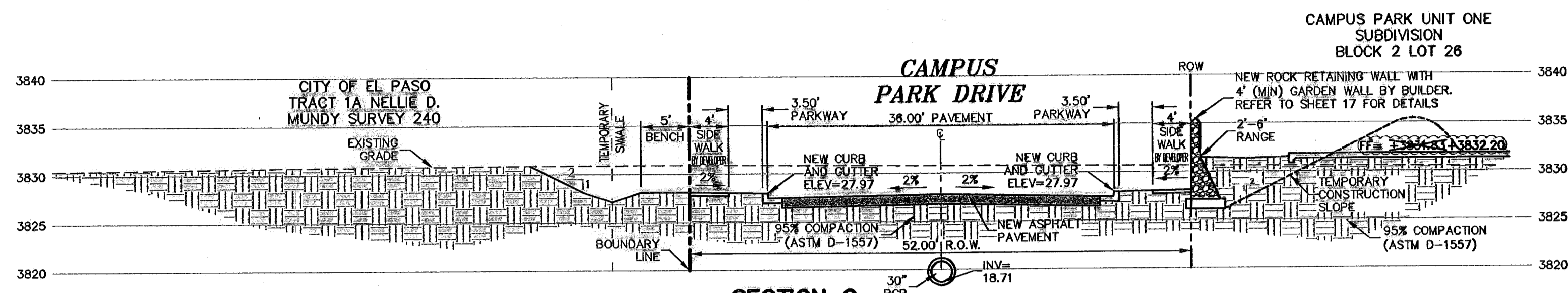


ALL SIDEWALKS AND ACCESSIBLE RAMPS SHALL COMPLY WITH ADA AND T&S STANDARDS AND GUIDELINES

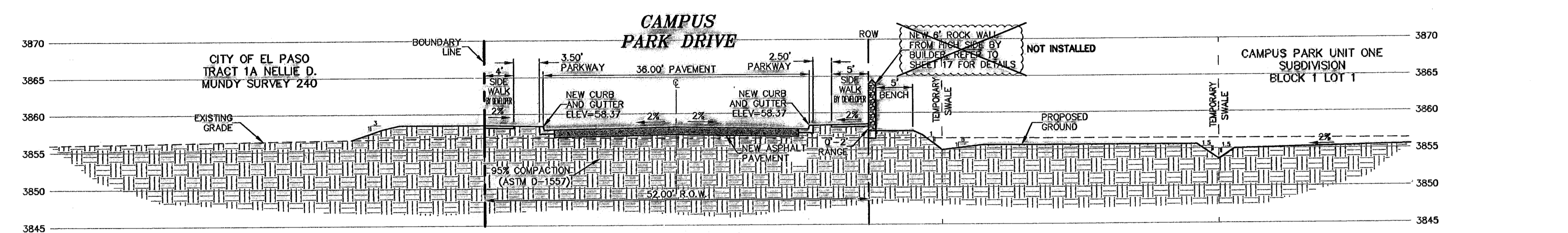
SIDEWALK NOTE
THE 4' SIDEWALK ON THE SOUTH SIDE OF CAMPUS PARK DRIVE FROM SOUTH DESERT BOULEVARD TO LOT 1, BLOCK 1, AND THE 5' SIDEWALK ON THE NORTH SIDE OF CAMPUS PARK DRIVE ADJACENT TO LOT 1, BLOCK 1 SHALL BE BY DEVELOPER. ALL OTHER SIDEWALK SHALL BE BY BUILDER. 5' SIDEWALK ABUTTING DESERT SOUTH BLVD. TO BE BUILT WITH COMMERCIAL SITE.



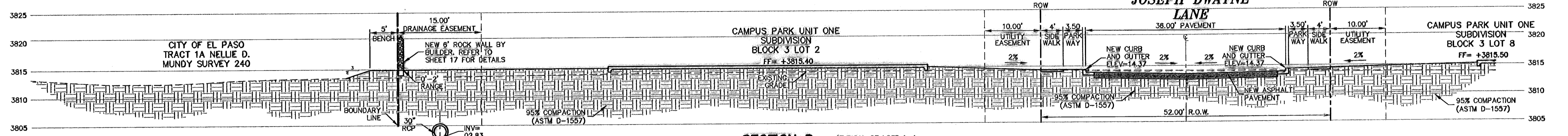
SECTION A
SCALE: 1"=10'-0"



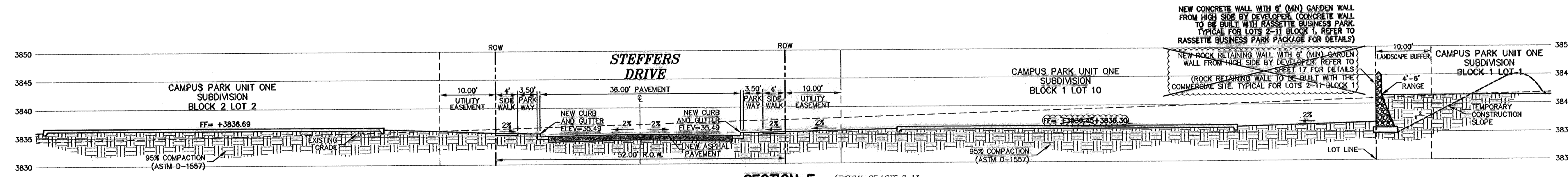
SECTION C
SCALE: 1"=10'-0"



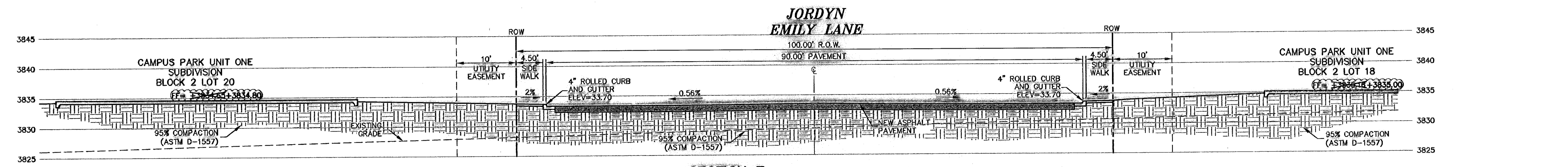
SECTION B
SCALE: 1"=10'-0"



SECTION D
SCALE: 1"=10'-0"
(TYPICAL OF LOTS 1-4 INCLUSIVE, BLOCK 3)



SECTION E
SCALE: 1"=10'-0"
(TYPICAL OF LOTS 2-13 INCLUSIVE, BLOCK 1)

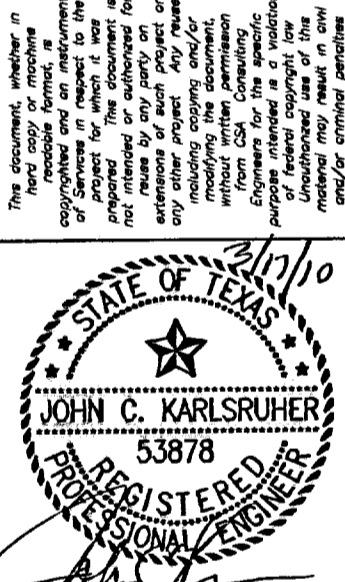


SECTION F
SCALE: 1"=10'-0"

| NO. | DATE | DESCRIPTION | BY |
|-----|----------|---------------------------|-----|
| 6 | 3/17/10 | Revised As-Built Drawings | JCK |
| 5 | 9/14/09 | Revised As-Built Drawings | JCK |
| 4 | 9/26/08 | As-Built Drawings | JCK |
| 3 | 2/14/08 | Final Submittal | JCK |
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| 1 | 12/11/07 | 1st City Submittal | JCK |

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543-5720
1-800-506-TESS
1-800-841-682-2003
1-800-506-TESS
775-7414
1-800-344-8377
EL PASO RESERVE
AT&T CAS SERVICE
DART ENERGY
PSE (WATER & SEWER)
TIME WARNER (CABLE)
EL PASO UTILITY SYSTEM
TEXAS EVANGELICAL SAFETY SYSTEM



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Texas Registered Engineering Firm #497
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Fax: (915) 877-4334
www.csaengineers.com



CAMPUS PARK UNIT ONE SUBDIVISION

SHEET TITLE
CROSS SECTIONS

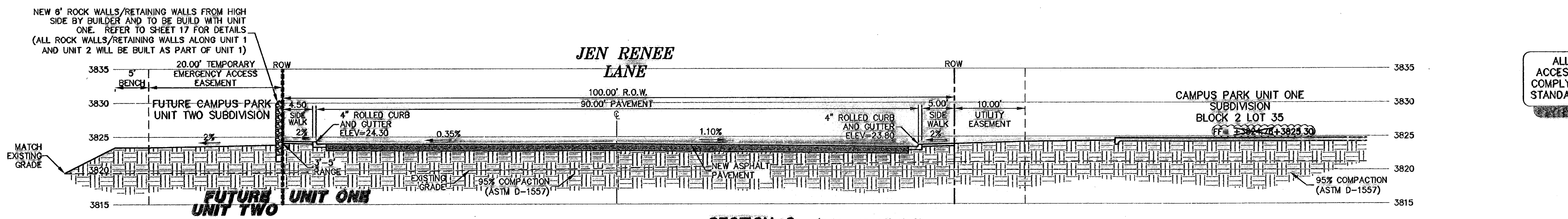
| | |
|-----------|----------|
| DOB | 7008 |
| DESIGN BY | JCK |
| DATE | 12/11/07 |
| SCALE | AS NOTED |

5
28

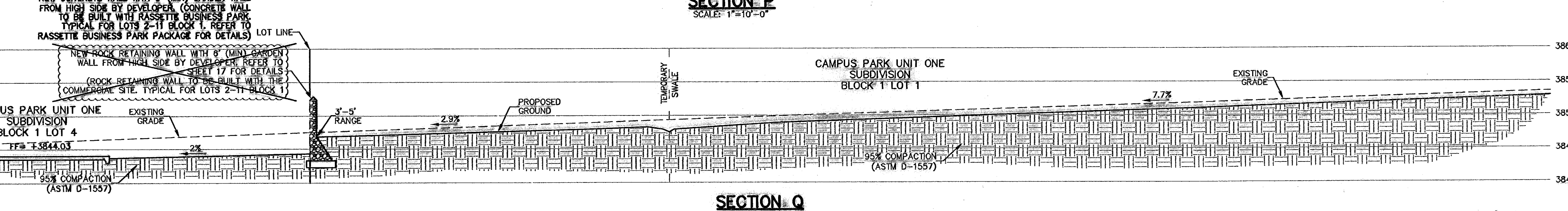
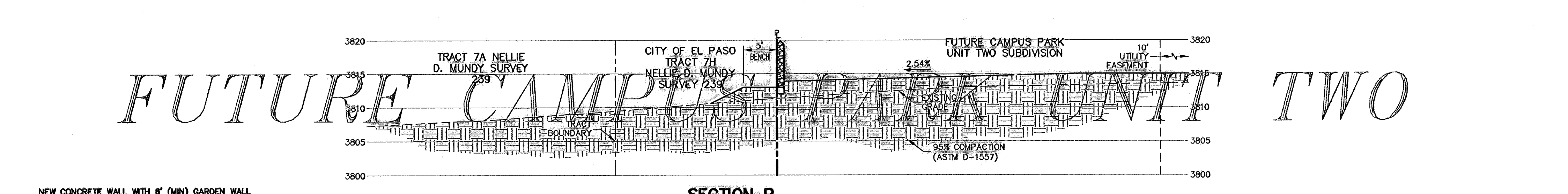
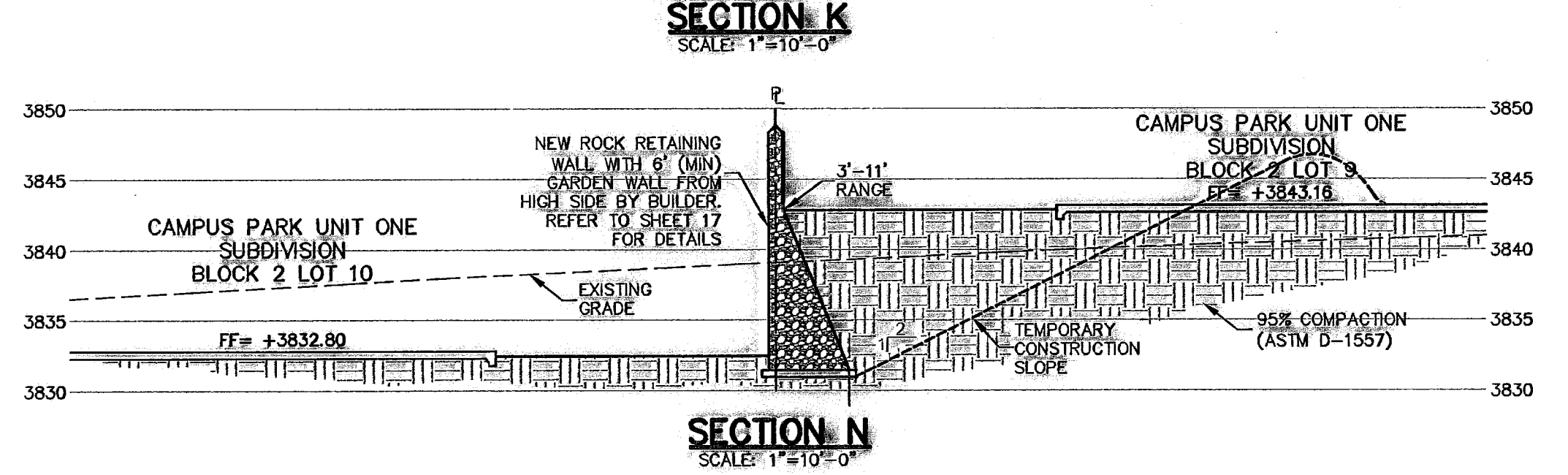
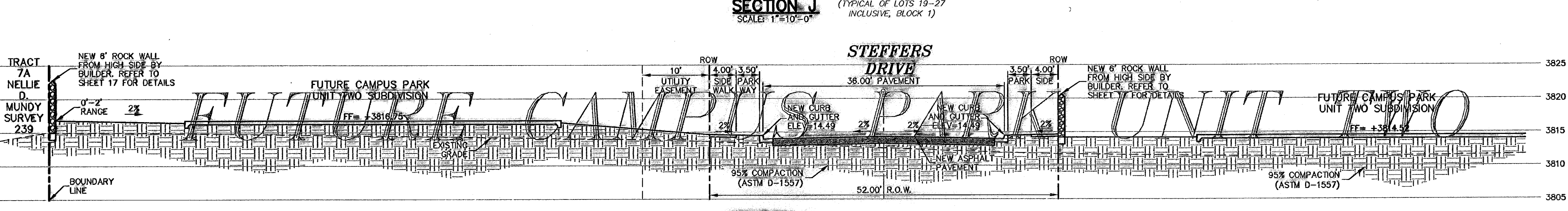
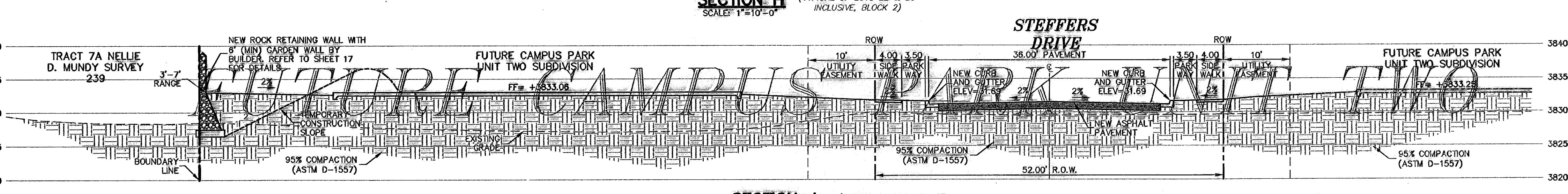
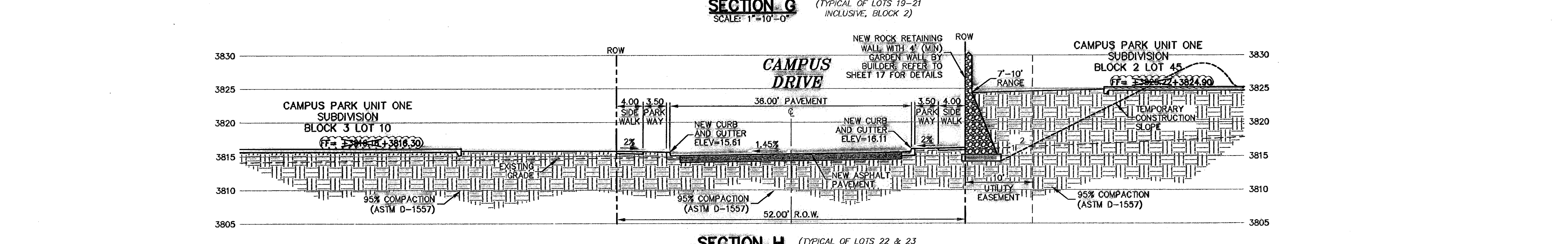
RECORD DRAWING

600786

May 18, 2010 - 2:21pm
S:\Drawings\Campus Park (Tractable, Common)\CADD\AS-BUILT\AS-BUILT-1-15 (Cross Section).dwg
mwood



ALL SIDEWALKS AND ACCESSIBLE RAMPS SHALL COMPLY WITH ADA AND TAS STANDARDS AND GUIDELINES

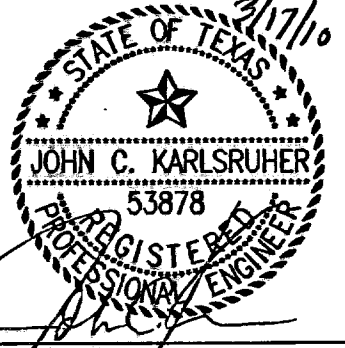


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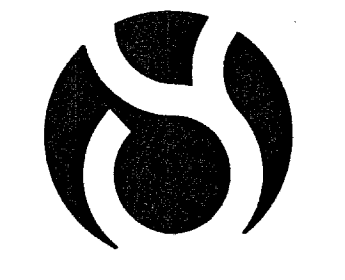
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 543-5720
 1-800-368-TEST
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 1-800-368-TEST
 1-800-368-TEST
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 1-800-368-TEST

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 www.ceadg.com



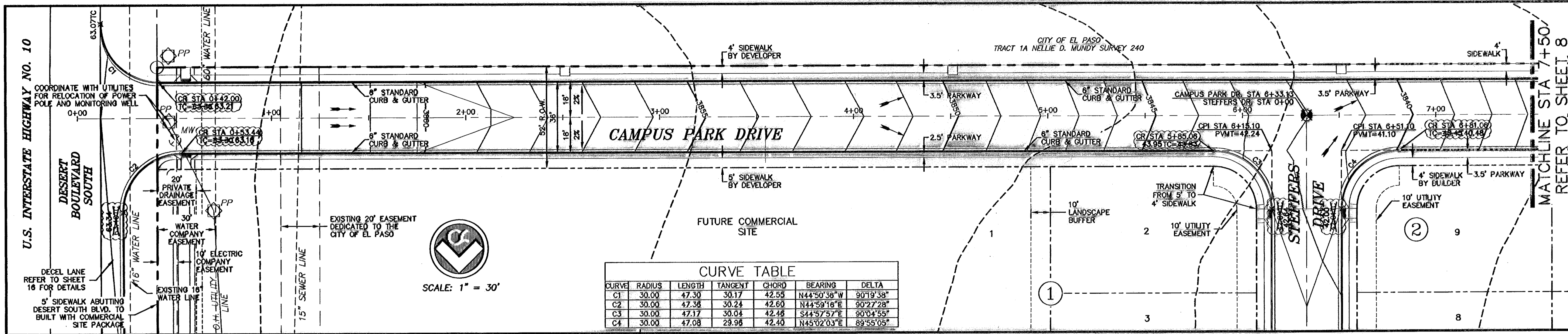
CAMPUS PARK UNIT ONE SUBDIVISION

CROSS SECTIONS

| | |
|----------|----------|
| DOB | 7008 |
| ISSUE BY | JCK |
| DATE | 12/11/07 |
| SCALE | AS NOTED |

RECORD DRAWING
 SHEET NO. **6**
 OF **28**

600786



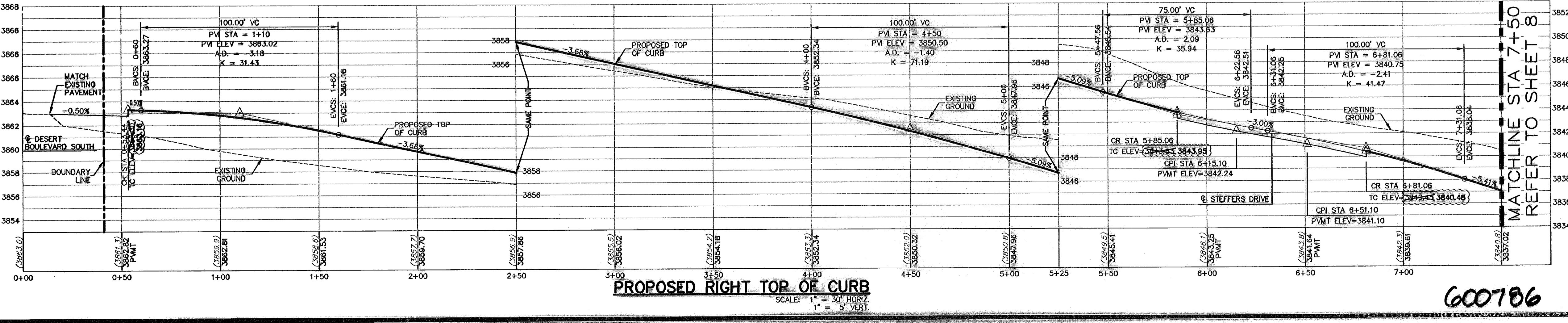
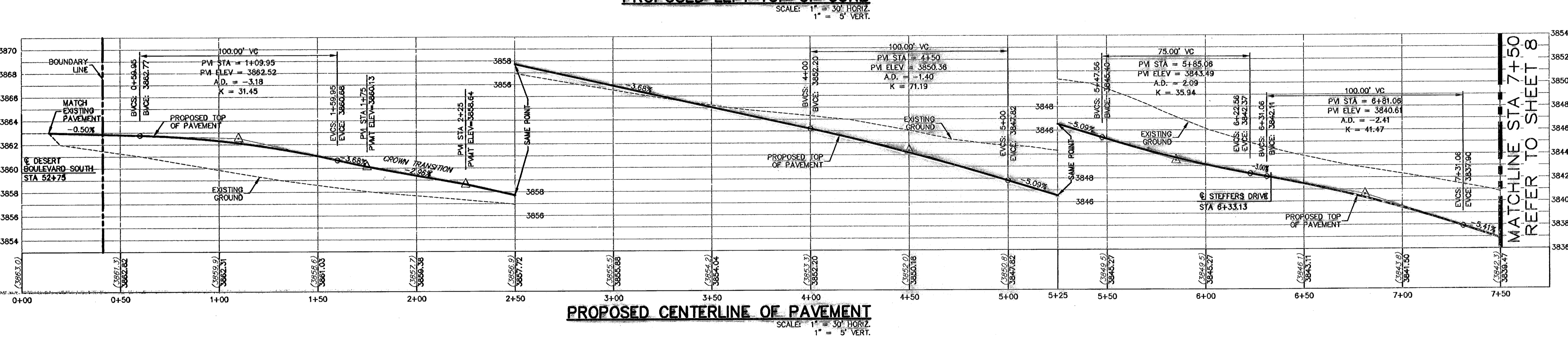
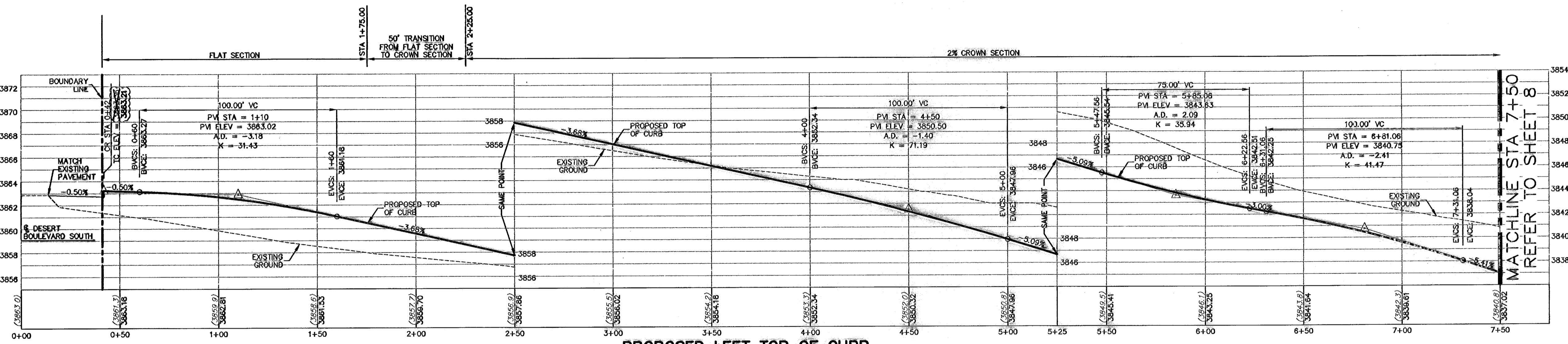
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TEXAS GAS SERVICE
544-6300
948-6400
775-7414
THE WARNER (CABLE)
1-800-334-8047
EL PASO NATURAL GAS CO.
1-800-334-8047
TEXAS EXCAVATION SAFETY SYSTEM

JOHN C. KARLSRUHER
REGISTERED PROFESSIONAL ENGINEER
No. 33878
STATE OF TEXAS
csc design group, inc.
Texas Registered Engineering Firm #440
1945 Northwestern Dr. Ste C
El Paso, Texas 79912
tel (915) 877 4155
fax (915) 877 4334
www.csaengineers.com



- LEGEND**
- LOT LINE
 - - - UTILITY EASEMENT
 - CENTER LINE OF STREET
 - STREET R.O.W.
 - CENTER LINE OF ALIGNMENT
 - 4" ROLLED CURB & GUTTER
 - SUBDIVISION BOUNDARY LINE
 - 3728.85 PROPOSED TOP OF CURB FINISHED GRADES
 - (3729.2) EXISTING GRADE
 - TC=08.09 PROPOSED TOP OF CURB ELEVATION
 - PWMT=08.65 PROPOSED PAVEMENT ELEVATION
 - DIRECTION OF RUNOFF FLOW
 - ▲ HIGH POINT
 - ▼ LOW POINT
 - ▲ POINT OF VERTICAL INTERSECTION
 - ▲ 50' TRANSITION AT INTERSECTION
 - ▲ PROPOSED CITY MONUMENT
 - ▲ ACCESSIBLE RAMP
 - 5'-5' PASSING ZONE BY BUILDER
 - PARKWAY VARIES BY BUILDER
 - 4' SIDEWALK (TYP) BY BUILDER

IF THESE RECORD DRAWINGS HAVE BEEN PREPARED IN ACCORDANCE WITH THE DOCUMENTATION PROVIDED BY THE DEVELOPER, AS WELL AS INFORMATION OBTAINED FROM CR-SITE VISITS AND SURVEY INFORMATION, ACCURACY OF THE INFORMATION PROVIDED BY OTHERS IS NOT WARRANTED BY THIS FIRM.

RECORD DRAWING

CAMPUS PARK UNIT ONE SUBDIVISION
SHEET TITLE
CAMPUS PARK DRIVE PLAN & PROFILE

| | |
|-----|------|
| 008 | 7008 |
| 009 | 7009 |
| 010 | 7010 |
| 011 | 7011 |
| 012 | 7012 |
| 013 | 7013 |
| 014 | 7014 |
| 015 | 7015 |
| 016 | 7016 |
| 017 | 7017 |
| 018 | 7018 |
| 019 | 7019 |
| 020 | 7020 |

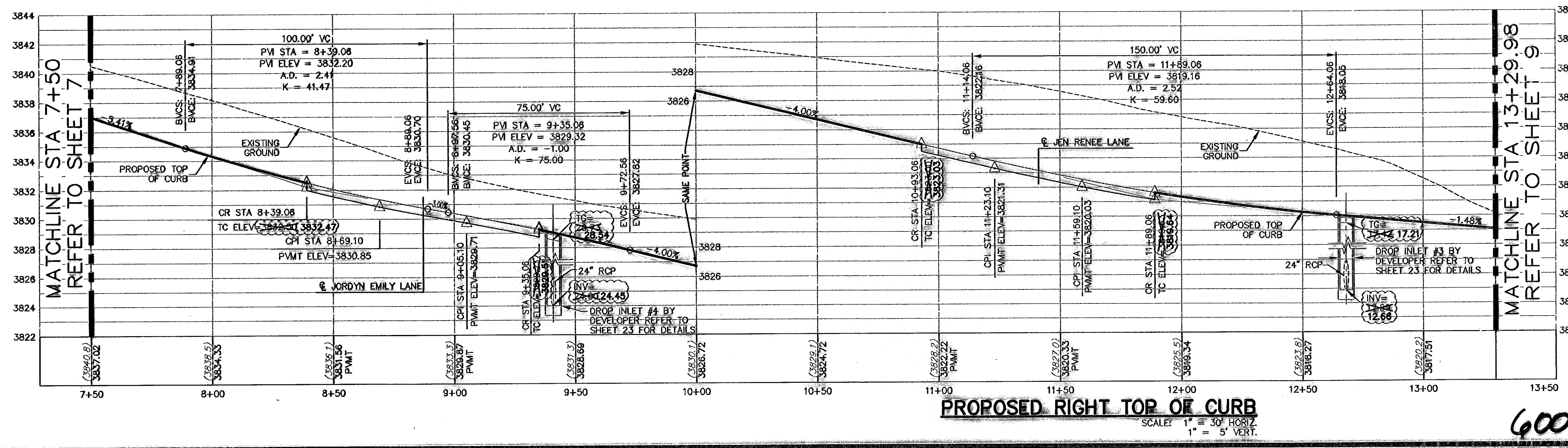
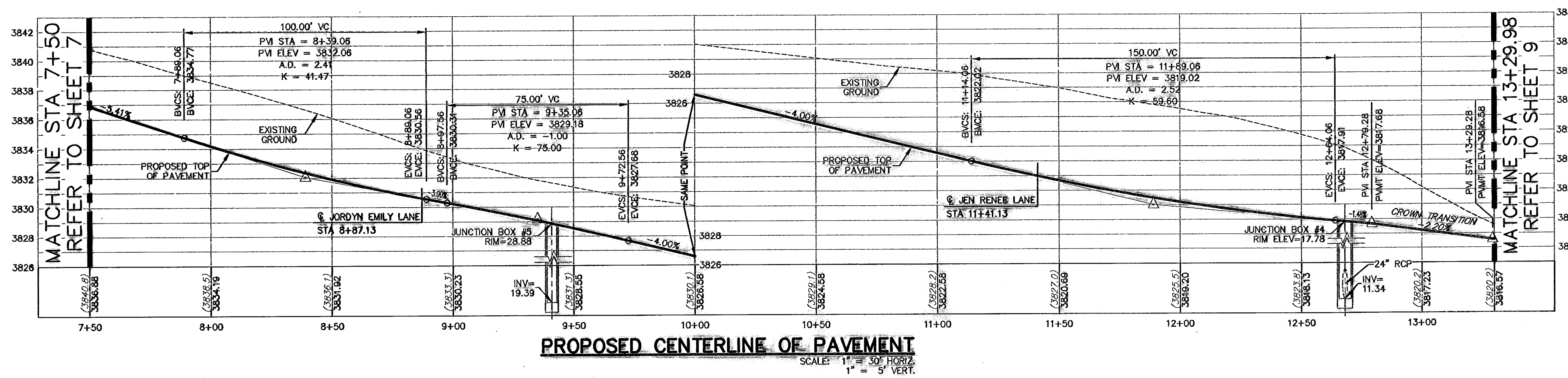
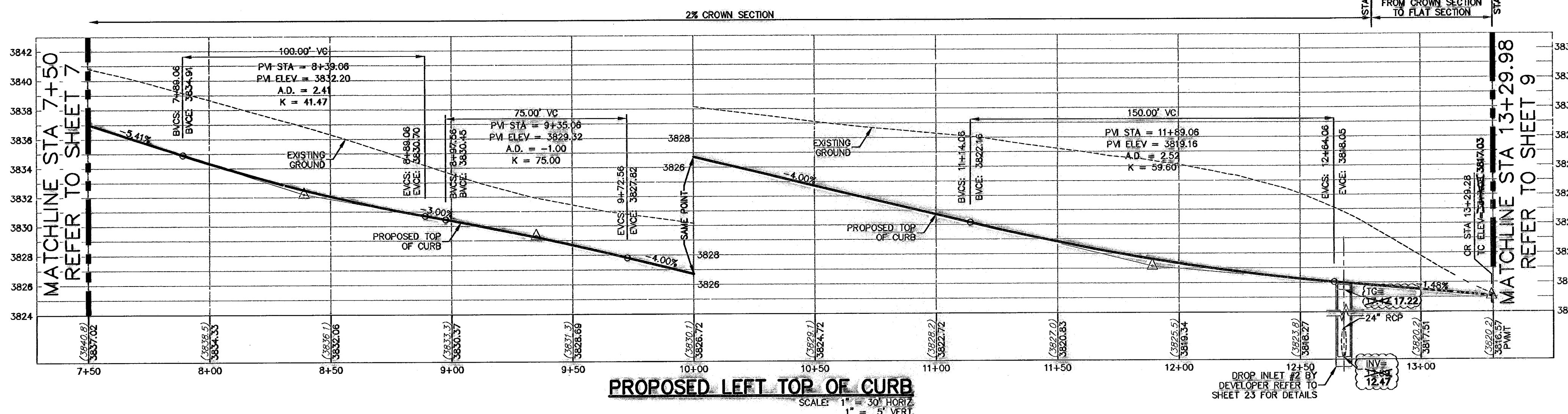
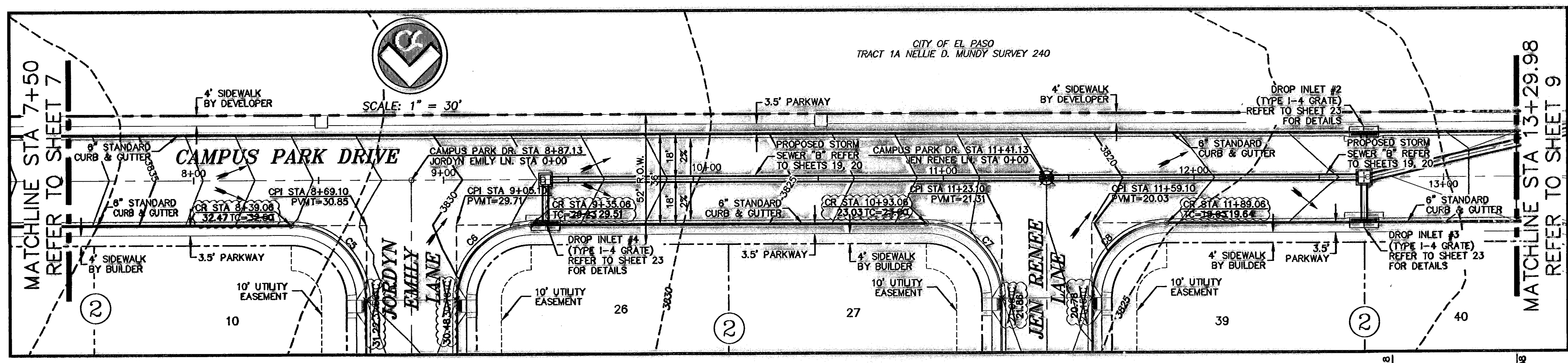
JCK AS NOTED
SCALE

600786

Map 18, 2010 - 2/16/08
S:\Draw\0301 Campus Park (Tramaine, Corral) 0301 AS-BUILT PLAN BUILTS LANE ONE\0301 7.8.8 Campus Park Drive P&P.dwg
woodward

ALL SIDEWALKS AND ACCESSIBLE RAMPS SHALL COMPLY WITH ADA AND T&S STANDARDS AND GUIDELINES

| CURVE | RADIUS | LENGTH | TANGENT | CHORD | BEARING | DELTA |
|-------|--------|--------|---------|-------|-------------|-----------|
| C5 | 30.00 | 47.17 | 30.04 | 42.18 | S44°37'57"E | 90°04'55" |
| C6 | 30.00 | 47.08 | 29.98 | 42.40 | N45°02'03"E | 89°55'05" |
| C7 | 30.00 | 47.17 | 30.04 | 42.24 | S44°37'57"E | 90°04'55" |
| C8 | 30.00 | 47.08 | 29.98 | 42.40 | N45°02'03"E | 89°55'05" |



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 - ▼ LOW POINT
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 - ▲ 50' TRANSITION AT INTERSECTION
 - ▲ PROPOSED CITY MONUMENT
 - ▲ ACCESSIBLE RAMP
 - 5'-0" PASSING ZONE BY BUILDER
 - ▲ PARKWAY VARIES BY BUILDER
 - ▲ 4' SIDEWALK (TYP) BY BUILDER

BENCHMARK CITY MONUMENT AT THE CENTERLINE INTERSECTION OF NORTHWESTERN DRIVE AND PASO ELEVATION = 3884.4 (EL PASO CITY DATUM)

| NO. | DATE | DESCRIPTION | BY |
|-----|----------|---------------------------|-----|
| 6 | 3/17/07 | Revised As-Built Drawings | JCK |
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543-5720

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544-6300

POST (WATER & SEWER)
1-800-832-TESS
775-7414

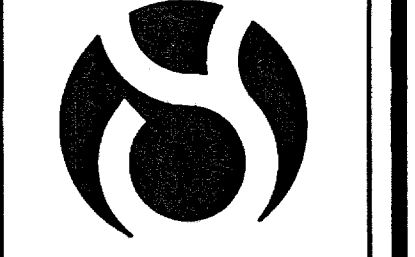
TIME WARNER (CABLE)
1-800-334-8047

TEXAS NATURAL GAS CO.
1-800-344-8077

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STATE OF TEXAS
3/17/07
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CAMPUS PARK
UNIT ONE
SUBDIVISION

CAMPUS
PARK DRIVE
PLAN &
PROFILE

| | |
|---------|----------|
| DOB | 7008 |
| DATE BY | 12/11/07 |
| DATE BY | 12/11/07 |
| SCALE | AS NOTED |

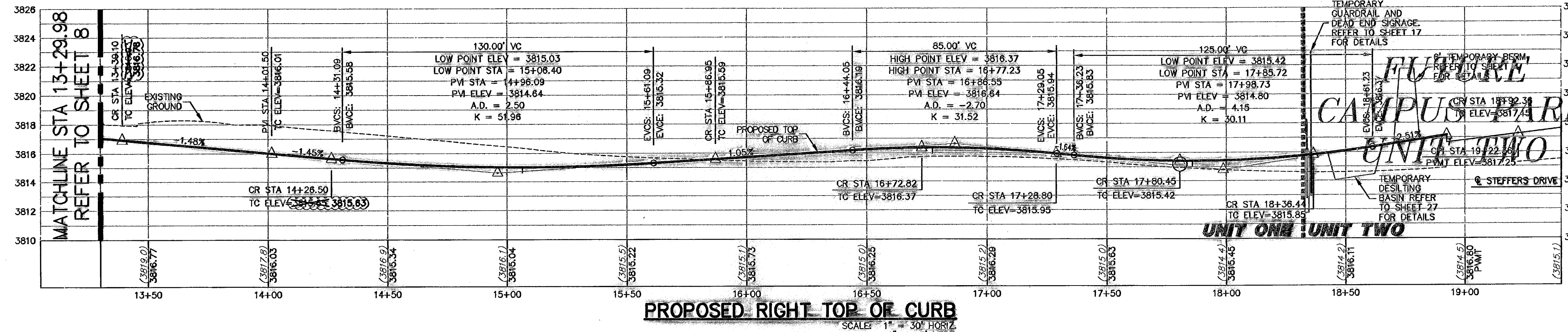
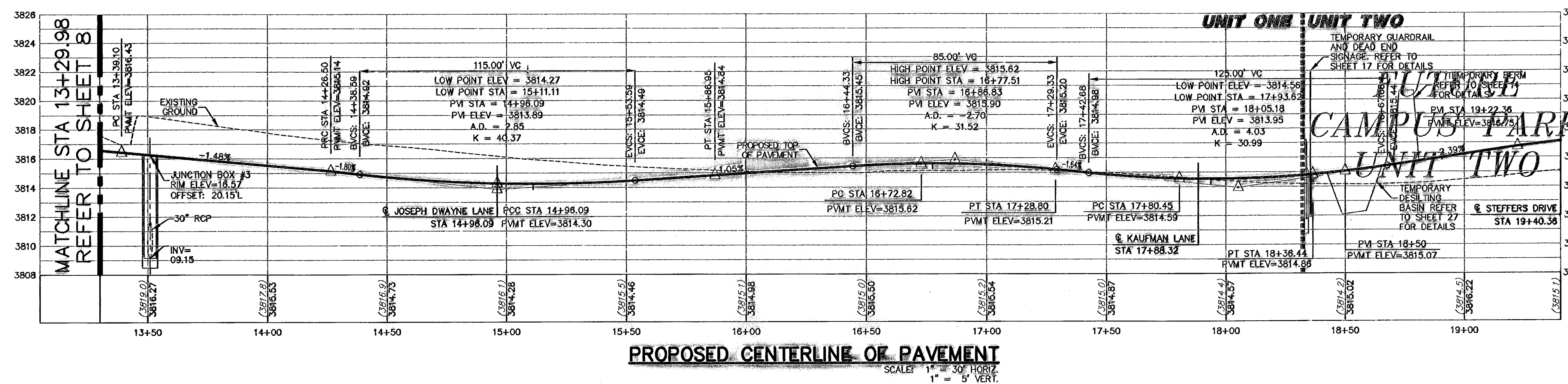
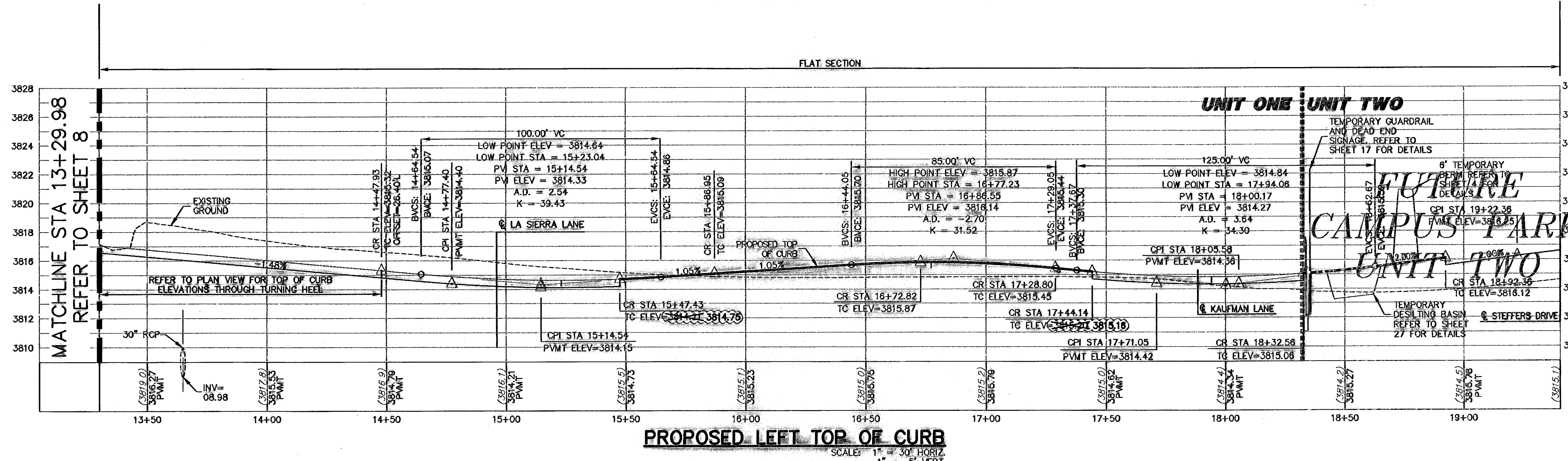
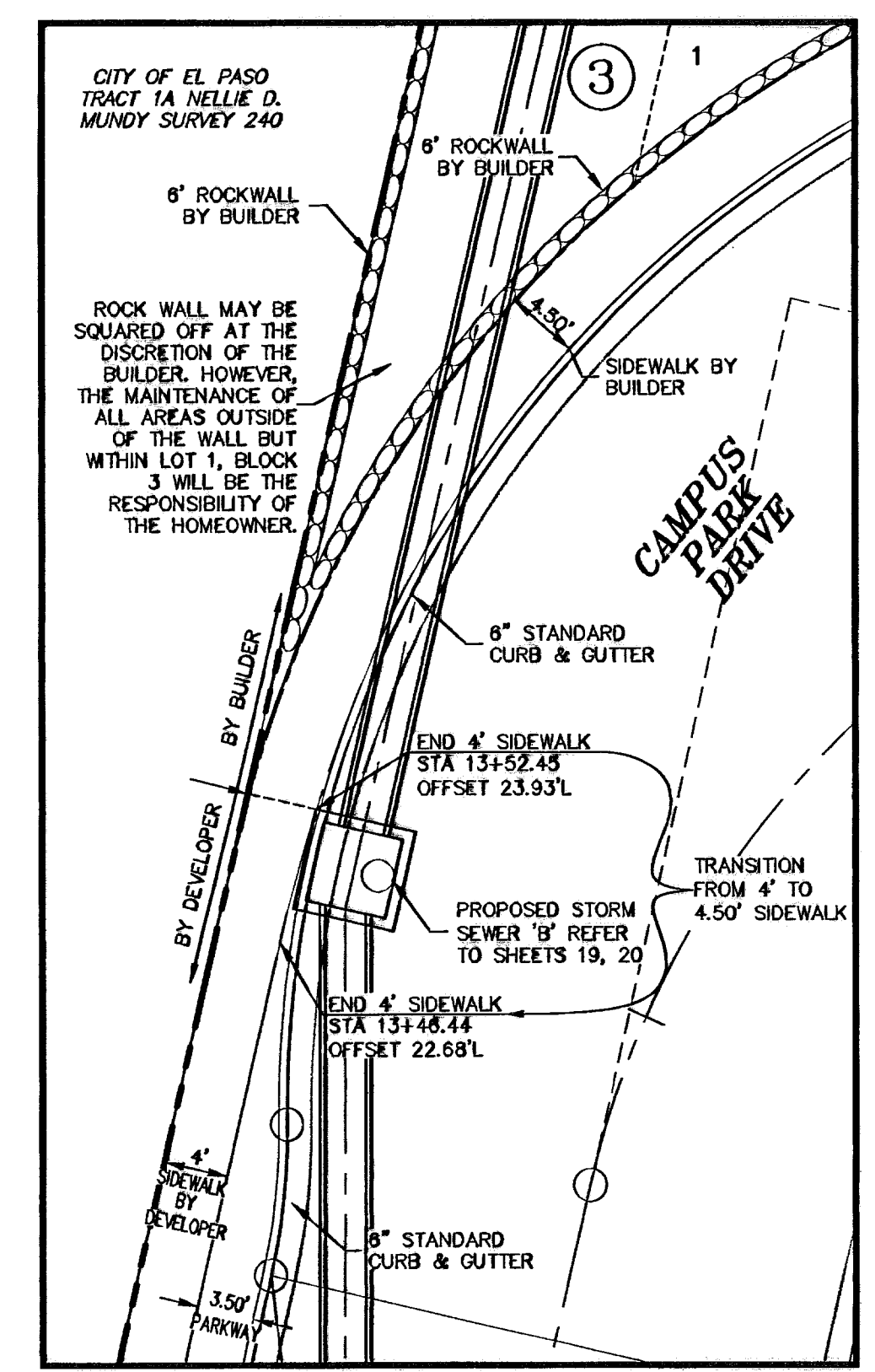
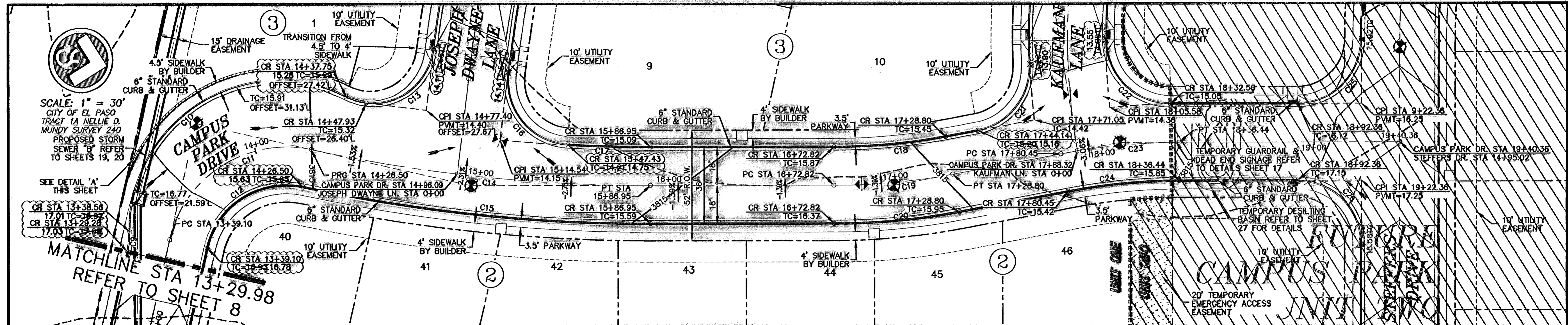
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RECORD DRAWING

600786

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| CURVE | RADIUS | LENGTH | TANGENT | CHORD | BEARING | DELTA |
|-------|--------|--------|---------|--------|-------------|------------|
| C9 | 40.00 | 9.36 | 4.70 | 9.34 | S83°17'13"W | 132°2'43" |
| C10 | 70.00 | 143.50 | 115.28 | 119.66 | S44°41'22"E | 112°27'33" |
| C11 | 58.00 | 87.40 | 55.44 | 78.79 | S45°17'49"E | 89°25'11" |
| C12 | 38.00 | 59.31 | 37.62 | 53.47 | S45°17'49"E | 89°25'11" |
| C13 | 28.50 | 54.37 | 40.18 | 48.49 | N40°26'43"W | 109°18'29" |
| C14 | 750.00 | 160.45 | 80.53 | 160.15 | N08°42'58"W | 121°5'28" |
| C15 | 758.00 | 164.30 | 82.47 | 163.99 | N08°42'58"W | 121°5'28" |
| C16 | 30.00 | 49.33 | 32.29 | 43.96 | N37°18'55"E | 94°12'54" |
| C17 | 732.00 | 38.58 | 19.29 | 38.57 | N11°20'07"W | 3°01'10" |
| C18 | 282.00 | 52.63 | 28.39 | 52.55 | N18°11'29"W | 10°41'33" |
| C19 | 300.00 | 55.99 | 28.07 | 55.90 | N18°11'29"W | 10°41'33" |
| C20 | 318.00 | 59.34 | 29.78 | 59.28 | N18°11'29"W | 10°41'33" |
| C21 | 30.00 | 42.68 | 25.86 | 38.17 | N64°17'43"W | 81°30'58" |
| C22 | 30.00 | 47.43 | 30.31 | 42.64 | N31°42'35"E | 90°35'28" |
| C23 | 300.00 | 55.99 | 28.07 | 55.90 | S18°11'29"E | 10°41'33" |
| C24 | 282.00 | 52.63 | 28.39 | 52.55 | S18°11'29"E | 10°41'33" |
| C25 | 30.00 | 47.03 | 29.91 | 42.38 | N57°45'17"W | 89°49'10" |
| C26 | 30.00 | 47.12 | 30.00 | 42.43 | S32°09'18"W | 90°00'00" |



- LEGEND**
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 - STREET R.O.W.
 - CENTER LINE OF ALIGNMENT
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 - ▼ LOW POINT
 - ▲ VERTICAL INTERSECTION
 - ▲ 50' TRANSITION AT INTERSECTION
 - ▲ PROPOSED CITY MONUMENT
 - ▲ ACCESSIBLE RAMP
 - 5'x5' PASSING ZONE BY BUILDER
 - 4' SIDEWALK (TYP) BY BUILDER
 - PARKWAY VARIES

THE TEMPORARY BERM AND DESLTING BASINS WILL REMAIN AND SHALL BE MAINTAINED BY THE DEVELOPER UNTIL PHASE 2 CONSTRUCTION COMMENCES

REVISIONS: CITY APPROVAL AT THE CENTERLINE INTERSECTION OF NORTHWESTERN DR. AND PASO ELEVATION = 3886.04 (EL. PASO CITY DATUM)

| NO. | DATE | DESCRIPTION | BY |
|-----|---------|---------------------------|-----|
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53878

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Texas Registered Engineering Firm F-4097
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El Paso, Texas 79912
tel [915] 877-4155
fax [915] 877-4334
www.csdesigngroup.com

CAMPUS PARK UNIT ONE SUBDIVISION
SHEET TITLE
CAMPUS PARK DRIVE PLAN & PROFILE

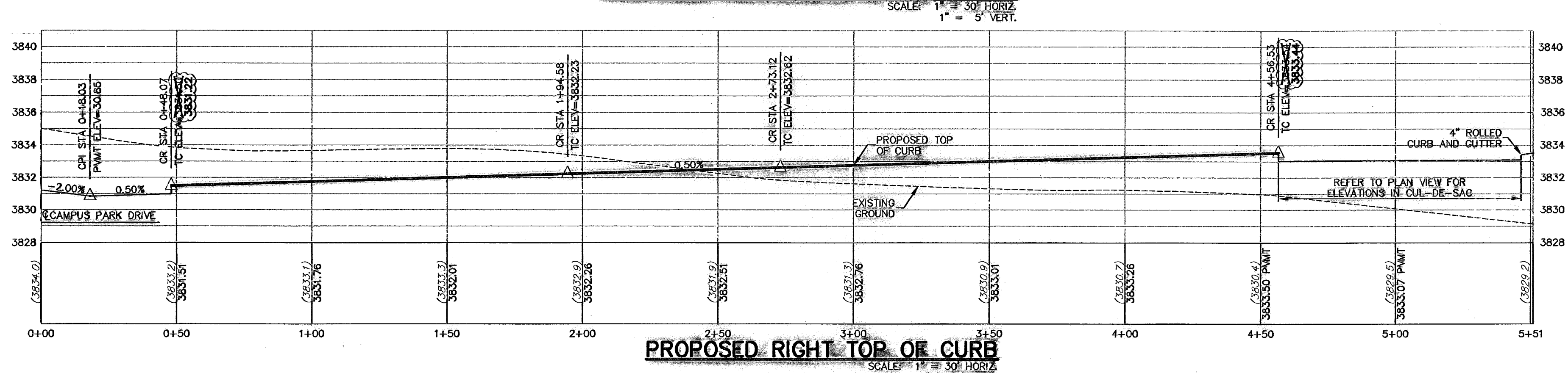
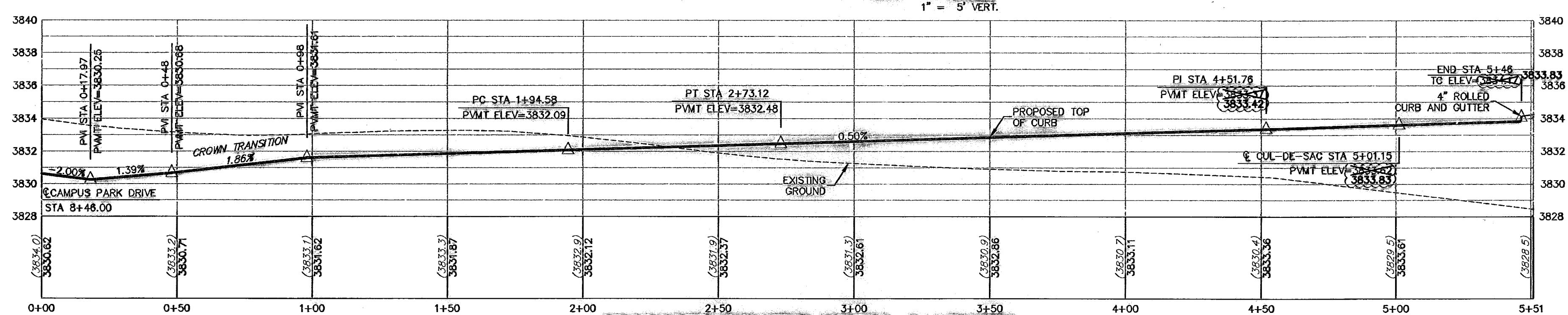
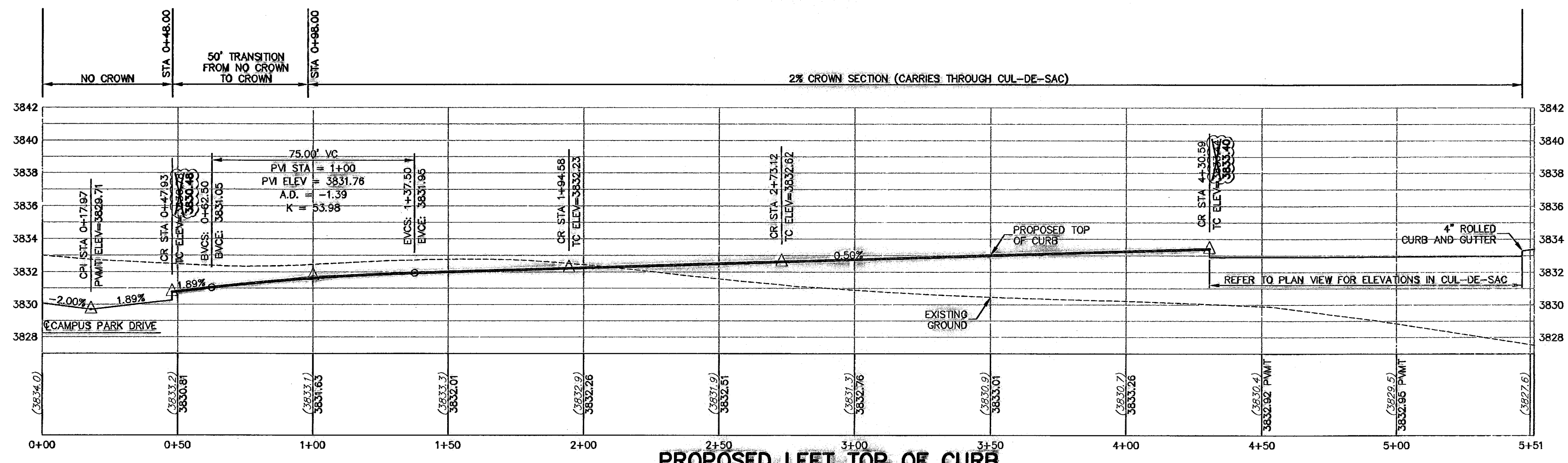
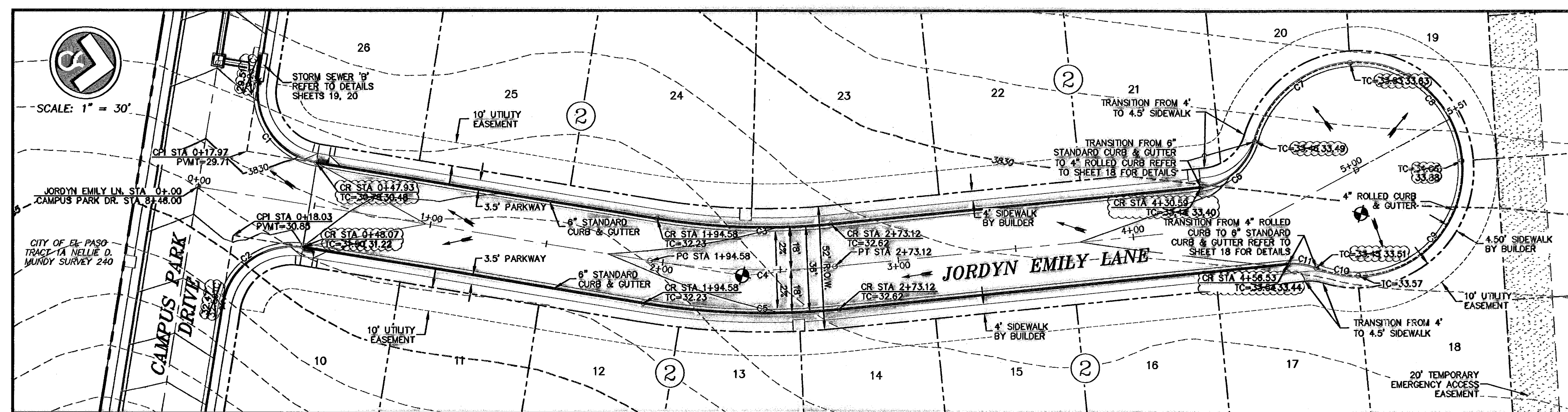
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|----------|----------|
| CGR | 7008 |
| REVISION | 44-8 |
| DATE | 12/11/07 |
| SCALE | AS NOTED |
| JCK | 9 |
| DRAWN BY | SCALE |

RECORD DRAWING

600786

ALL SIDEWALKS AND ACCESSIBLE RAMPS SHALL COMPLY WITH ADA AND T&S STANDARDS AND GUIDELINES

| CURVE TABLE | | | | | |
|-------------|--------|--------|---------|-------|-----------------------|
| CURVE | RADIUS | LENGTH | TANGENT | CHORD | DELTA |
| C1 | 30.00 | 47.08 | 29.98 | 42.40 | N45°02'03"E 89°55'09" |
| C2 | 30.00 | 47.17 | 30.04 | 42.48 | S44°57'57"E 90°04'55" |
| C3 | 289.09 | 87.55 | 44.10 | 87.19 | N07°25'30"W 17°20'50" |
| C4 | 300.00 | 78.54 | 39.50 | 78.34 | N07°25'30"W 15°00'00" |
| C5 | 318.00 | 83.25 | 41.87 | 83.01 | N07°25'30"W 15°00'00" |
| C6 | 28.50 | 31.86 | 18.18 | 29.98 | N49°22'17"W 68°53'34" |
| C7 | 45.00 | 55.79 | 32.11 | 52.28 | S48°18'13"E 71°01'41" |
| C8 | 45.00 | 69.85 | 44.17 | 63.04 | S31°40'33"W 88°55'52" |
| C9 | 45.00 | 73.51 | 47.92 | 65.81 | N57°03'30"W 93°38'02" |
| C10 | 45.00 | 18.40 | 9.33 | 18.27 | N01°27'21"E 23°25'40" |
| C11 | 25.00 | 12.28 | 6.28 | 12.14 | S00°52'39"E 28°05'41" |



LEGEND

- LOT LINE
- - - UTILITY EASEMENT
- CENTER LINE OF STREET
- STREET R.O.W.
- CENTER LINE OF ALIGNMENT
- - - 4" ROLLED CURB & GUTTER
- SUBDIVISION BOUNDARY LINE
- 3728.85 PROPOSED TOP OF CURB FINISHED GRADES
- (C728.09) EXISTING GRADE
- PVMT=08.65 PROPOSED TOP OF CURB ELEVATION
- DIRECTION OF RUNOFF FLOW
- ▲ HIGH POINT
- ▼ LOW POINT
- ▲ POINT OF VERTICAL INTERSECTION
- ▲ 50' TRANSITION AT INTERSECTION
- PROPOSED CITY MONUMENT
- ▲ ACCESSIBLE RAMP
- 5'x5' PARKWAY VARIES BY BUILDER
- 4' SIDEWALK (TYP) BY BUILDER
- R.O.W.

BENCHMARK: CITY MONUMENT AT THE CENTERLINE INTERSECTION OF NORTHWESTERN DRIVE AND PASEO DEL NORTE BOULEVARD
ELEVATION = 3886.96 (EL. PASEO CITY DATUM)

| NO. | DATE | DESCRIPTION | BY |
|-----|----------|---------------------------|-----|
| 5 | 3/7/10 | Revised As-Built Drawings | JCK |
| 6 | 9/14/09 | Revised As-Built Drawings | JCK |
| 4 | 9/28/08 | As-Built Drawings | JCK |
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| 2 | 1/29/08 | 2nd City Submittal | JCK |
| 1 | 12/11/07 | 1st City Submittal | JCK |

WARNING!
BEFORE YOU DIG
CONTRACTOR SHALL FIELD LOCATE ALL EXISTING UNDERGROUND IMPROVEMENTS IN PROJECT AREA

BEFORE YOU DIG - CALL

EL PASO ELECTRIC COMPANY
543-5720
1-800-561-TESS

EL PASO GAS SERVICE
544-6000
1-800-441-TESS

PSB (WATER & SEWER)
775-7414
1-800-441-TESS

EL PASO NATURAL GAS CO.
1-800-344-8847

TEXAS EDUCATION SAFETY SYSTEM

STATE OF TEXAS
REGISTERED PROFESSIONAL ENGINEER
JOHN C. KARLSRUHER
53878

casa design group, inc.
Texas Registered Engineering Firm #4627
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El Paso, Texas 79912
Tel: (915) 877,4156
Fax: (915) 877,4334
www.casadesigngroup.com



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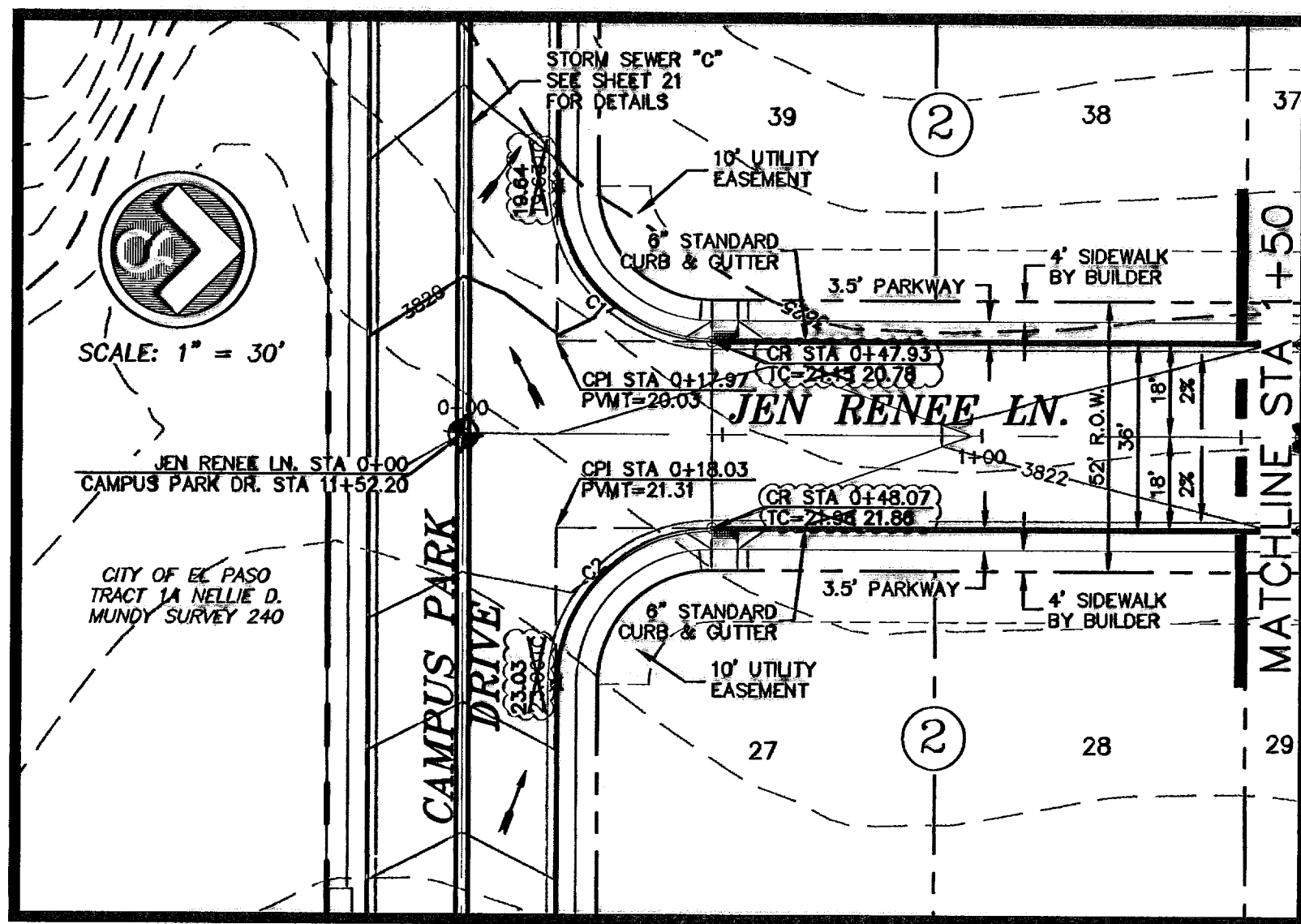
JORDYN EMILY LANE PLAN & PROFILE

| | |
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| GOB | 7008 |
| DATE BY | 12/11/07 |
| JCK | AS NOTED |
| DATE BY | SCALE |

10
28

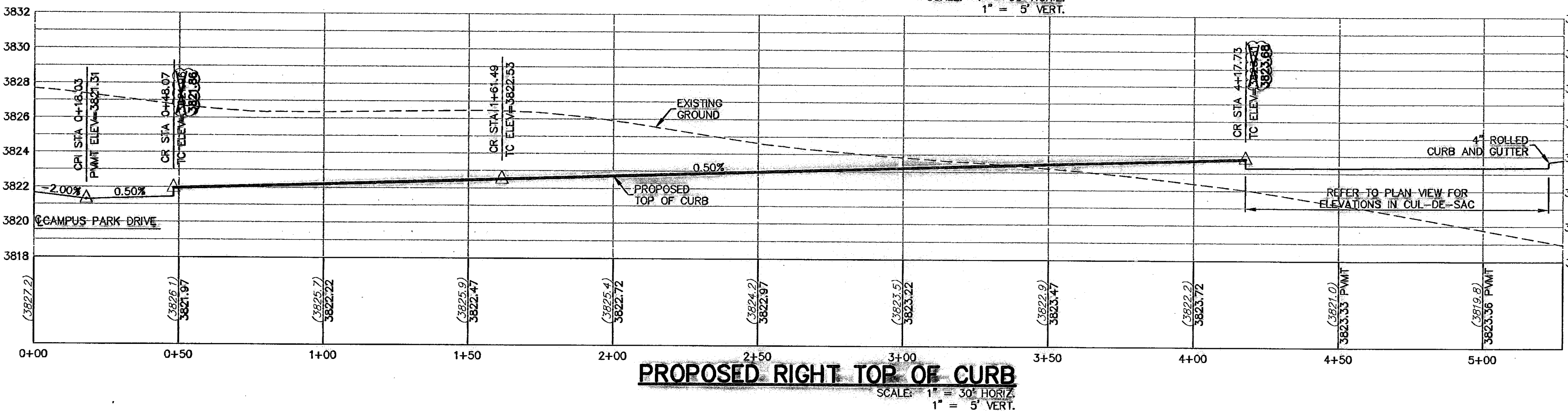
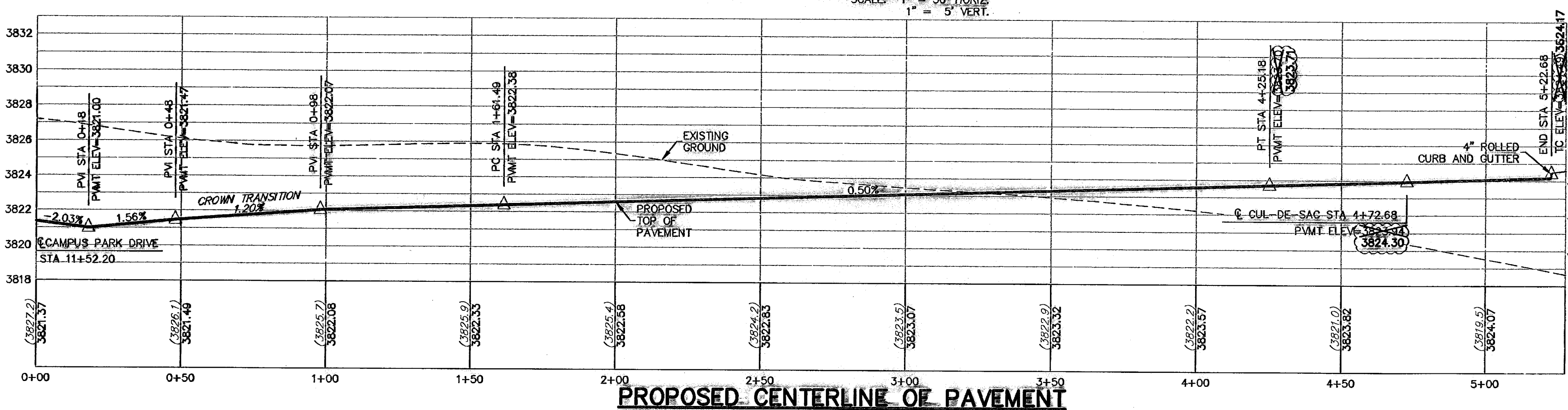
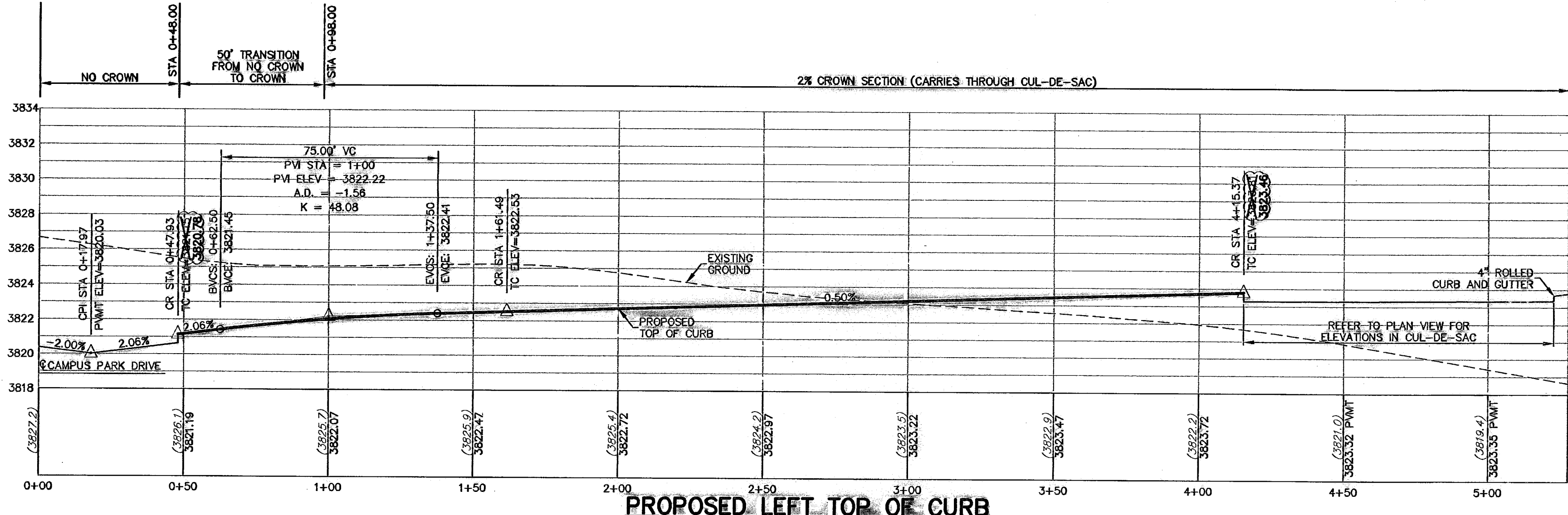
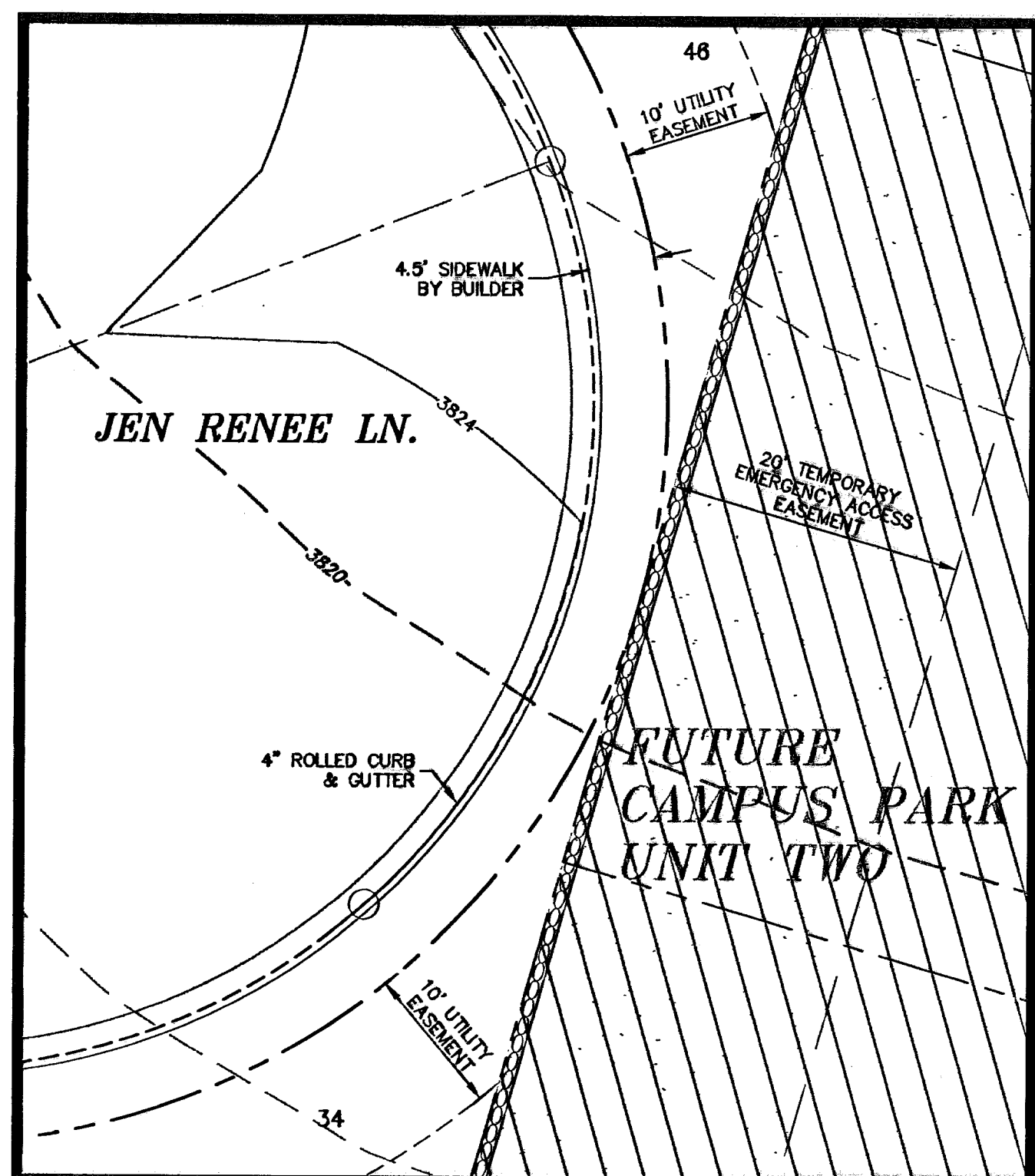
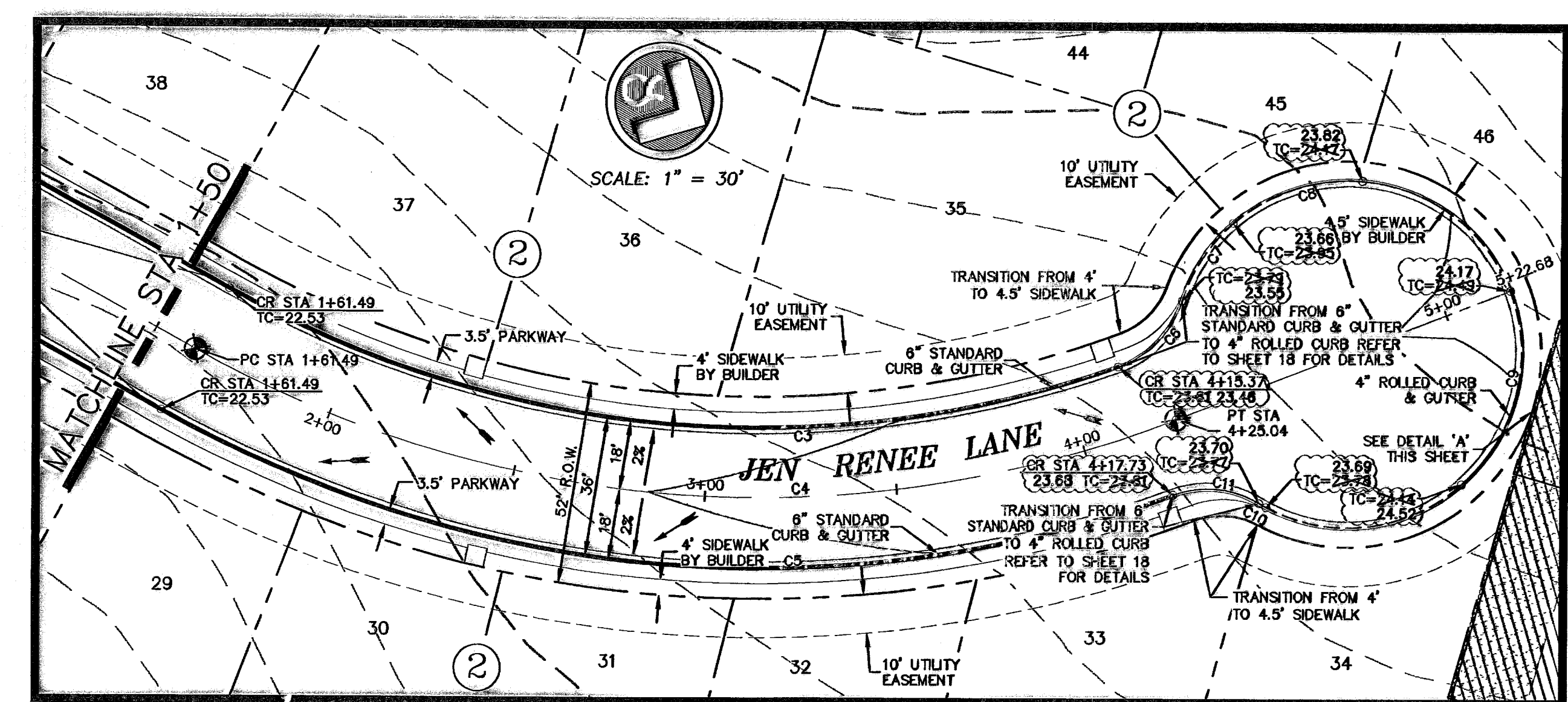
RECORD DRAWING

600786



ALL SIDEWALKS AND ACCESSIBLE RAMPS SHALL COMPLY WITH ADA AND T&S STANDARDS AND GUIDELINES

| CURVE | RADIUS | LENGTH | TANGENT | CHORD | BEARING | DELTA |
|-------|--------|--------|---------|--------|-------------|------------|
| C1 | 30.00 | 47.08 | 29.96 | 42.40 | N45°02'03"E | 89°55'05" |
| C2 | 30.00 | 47.17 | 30.04 | 42.48 | S44°57'57"E | 90°04'55" |
| C3 | 282.00 | 238.64 | 126.93 | 231.59 | N24°10'08"W | 48°29'12" |
| C4 | 300.00 | 263.69 | 141.05 | 255.28 | N25°08'20"W | 50°21'40" |
| C5 | 318.00 | 271.62 | 144.72 | 263.44 | N24°32'40"W | 48°36'20" |
| C6 | 28.50 | 24.63 | 13.28 | 23.75 | N75°02'02"W | 53°14'40" |
| C7 | 45.00 | 24.42 | 12.52 | 24.12 | S86°06'28"E | 31°05'47" |
| C8 | 45.00 | 36.27 | 19.18 | 35.29 | S47°28'15"E | 46°10'40" |
| C9 | 45.00 | 159.49 | 220.45 | 88.18 | S77°09'18"W | 203°04'26" |
| C10 | 45.00 | 2.07 | 1.04 | 2.07 | N00°00'44"E | 2°38'28" |
| C11 | 28.50 | 23.22 | 12.41 | 22.48 | S23°45'57"E | 50°11'47" |



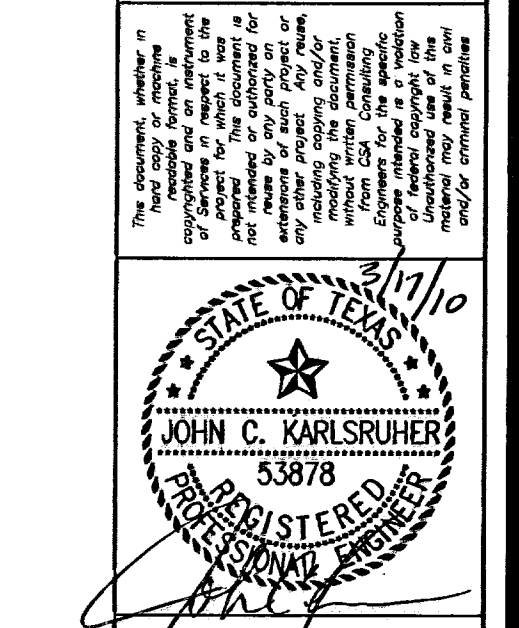
- LEGEND**
- LOT LINE
 - - - UTILITY EASEMENT
 - CENTER LINE OF STREET
 - STREET R.O.W.
 - CENTER LINE OF ALIGNMENT
 - - - 4' ROLLED CURB & GUTTER
 - - - SUBDIVISION BOUNDARY LINE
 - 3728.85 PROPOSED TOP OF CURB FINISHED GRADES
 - (3729.2) EXISTING GRADE
 - TC=08.09 PROPOSED TOP OF CURB ELEVATION
 - PWMT=08.65 PROPOSED PAVEMENT ELEVATION
 - DIRECTION OF RUNOFF FLOW
 - ▲ HIGH POINT
 - ▼ LOW POINT
 - △ POINT OF VERTICAL INTERSECTION
 - ▽ 50' TRANSITION AT INTERSECTION
 - PROPOSED CITY MONUMENT
 - ACCESSIBLE RAMP
 - 5'x5' PASSING ZONE BY BUILDER
 - R.O.W. PARKWAY VARIES BY BUILDER
 - 4' SIDEWALK (TYP) BY BUILDER

| NO. | DATE | DESCRIPTION | BY |
|-----|----------|---------------------------|-----|
| 6 | 3/17/10 | Revised As-Built Drawings | JCK |
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| 4 | 9/26/08 | As-Built Drawings | JCK |
| 3 | 2/14/08 | Final Submittal | JCK |
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 5-10-00-00
 TEXAS GAS SERVICE
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 EMERGENCY HOTLINE
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 PSE (WATER & SEWER)
 1-800-DIG-TESS
 EL PASO NATURAL GAS CO.
 1-800-334-8047
 TEXAS EXCAVATION SAFETY SYSTEM
 1-800-344-8377



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 Texas Registered Engineering Firm #497
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 tel (915) 877.4155
 fax (915) 877.4334
 www.csaengineers.com

CAMPUS PARK UNIT ONE SUBDIVISION

JEN RENEE LANE PLAN & PROFILE

SHEET TITLE

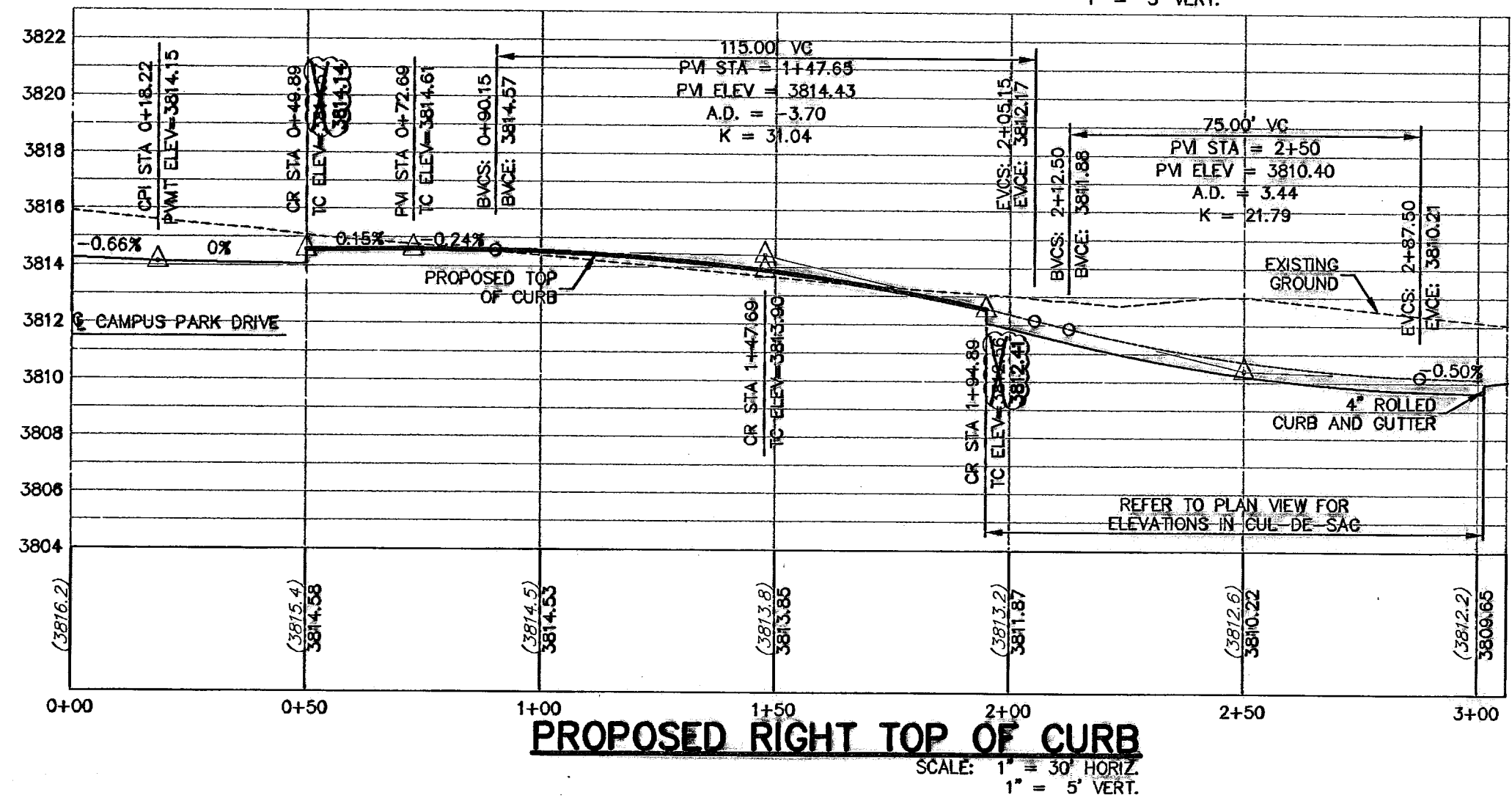
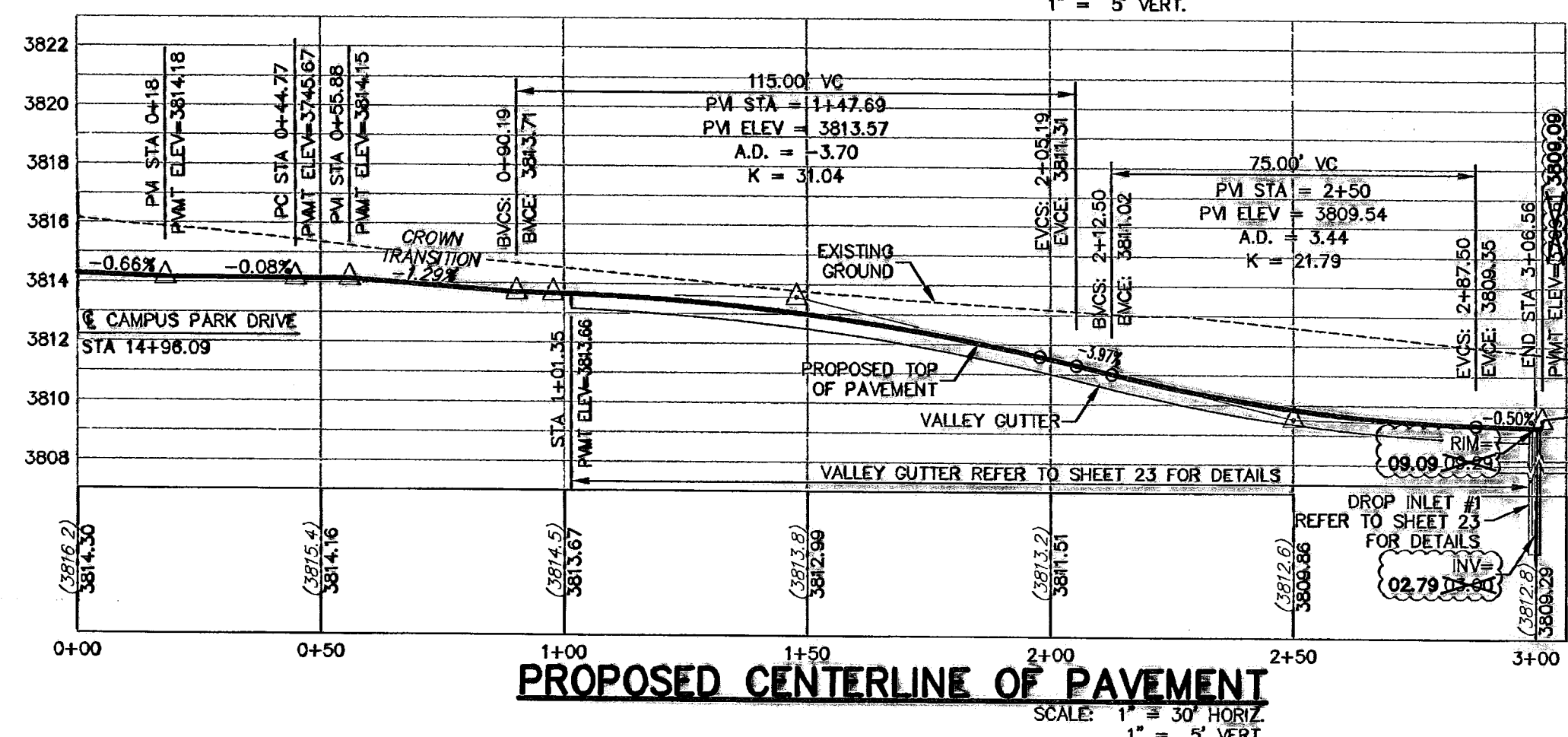
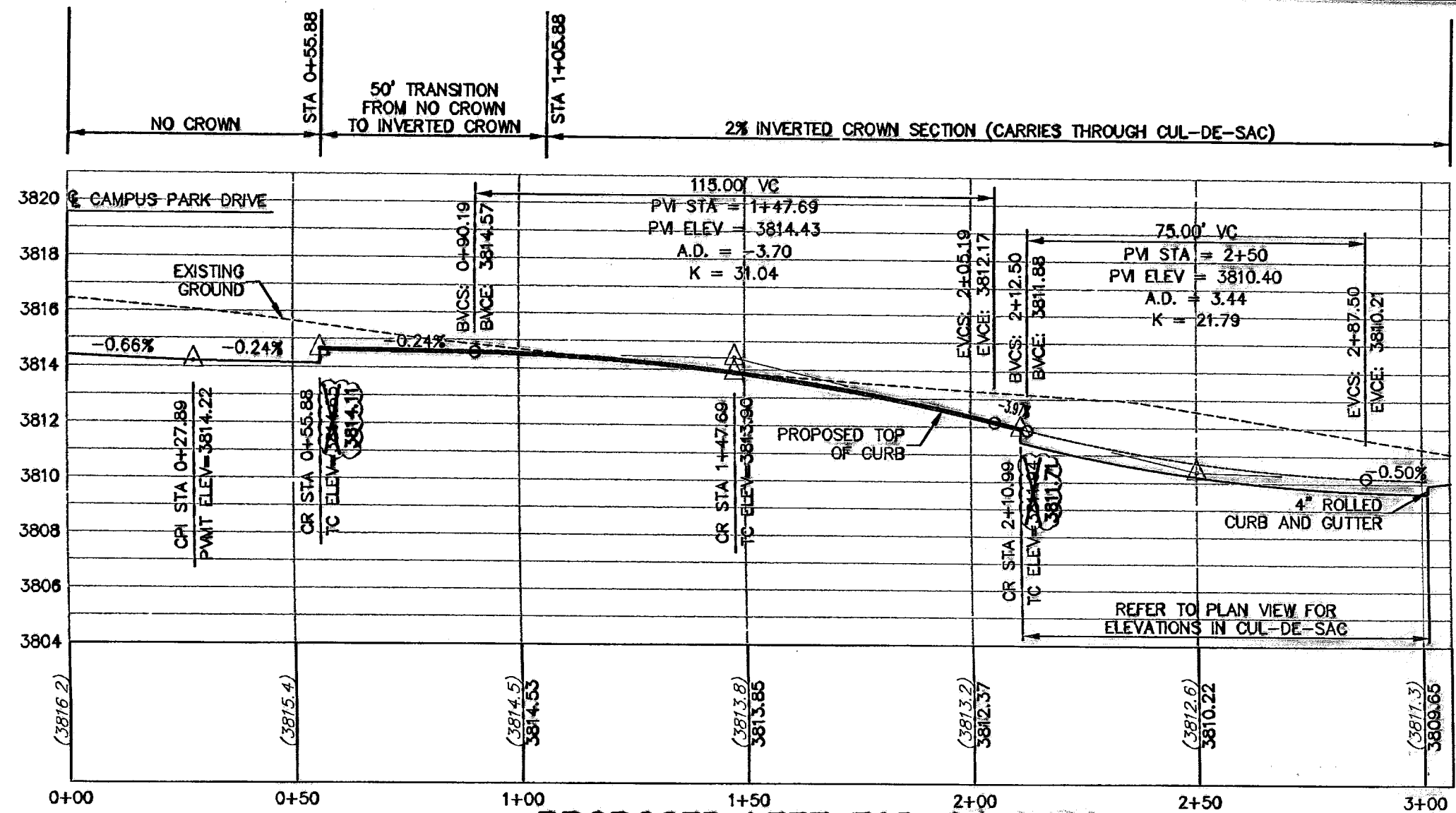
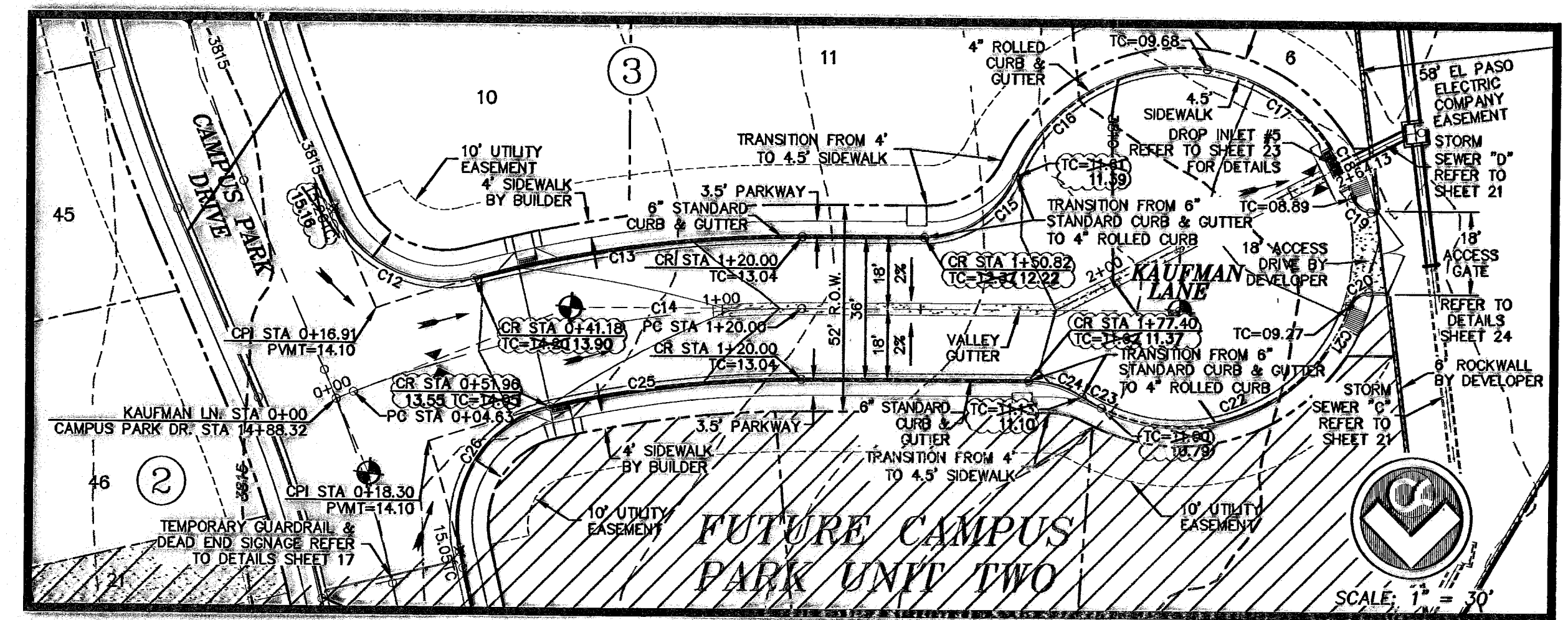
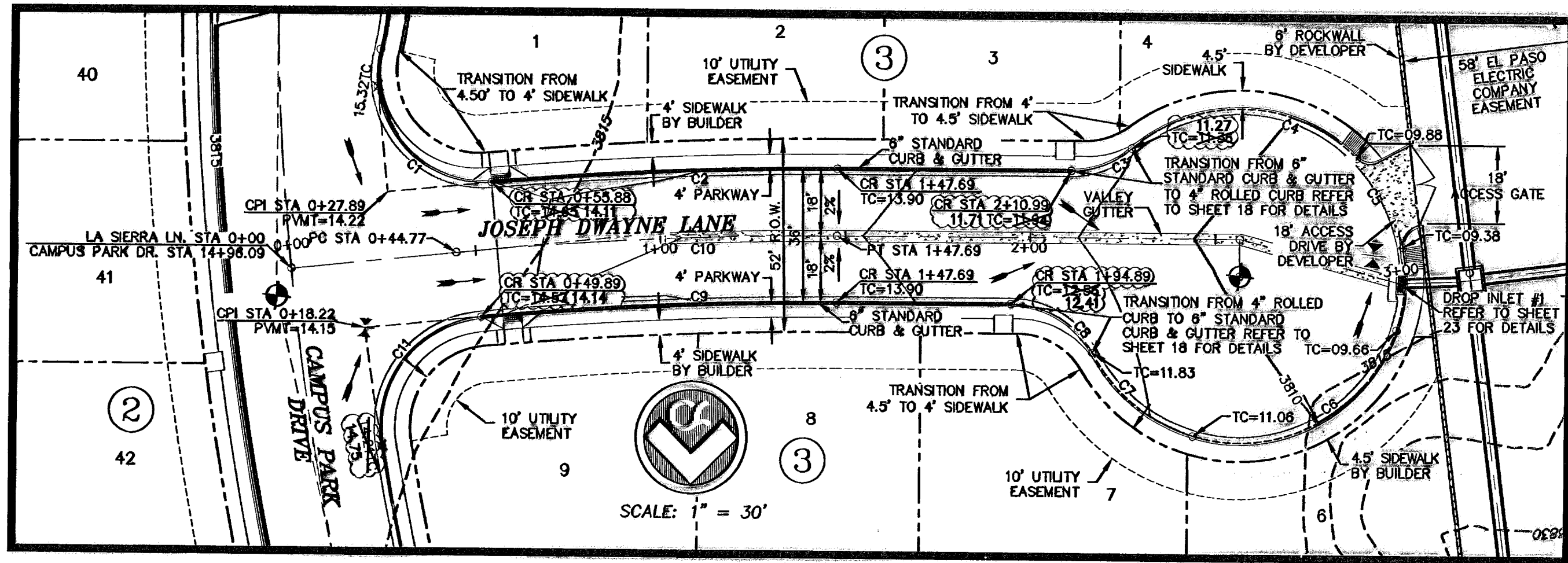
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|-----------|----------|
| COB | 7008 |
| DESIGN BY | JCK |
| DATE | 12/11/07 |
| JCK | AS NOTED |
| SCALE | SCALE |

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RECORD DRAWING

600786

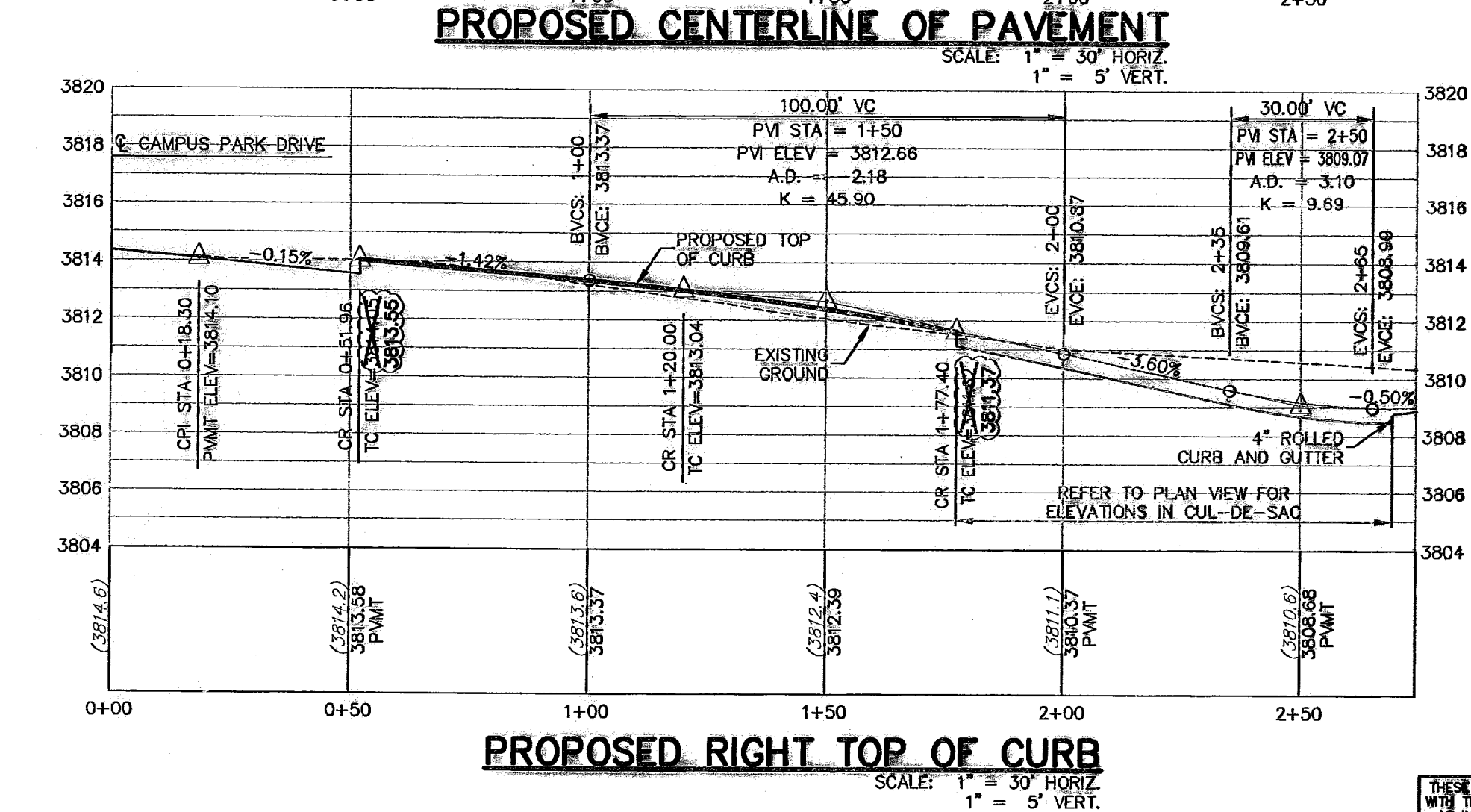
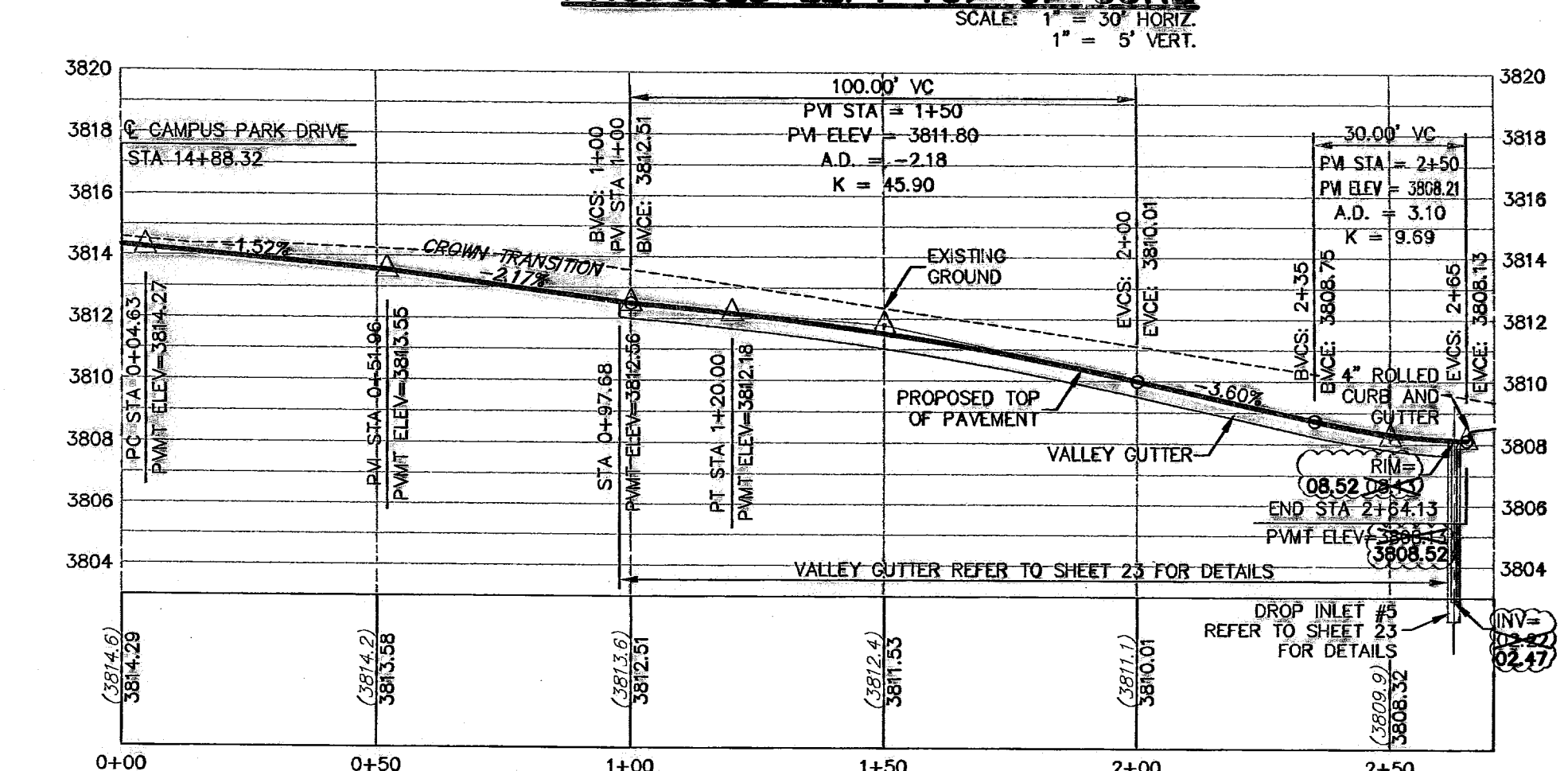
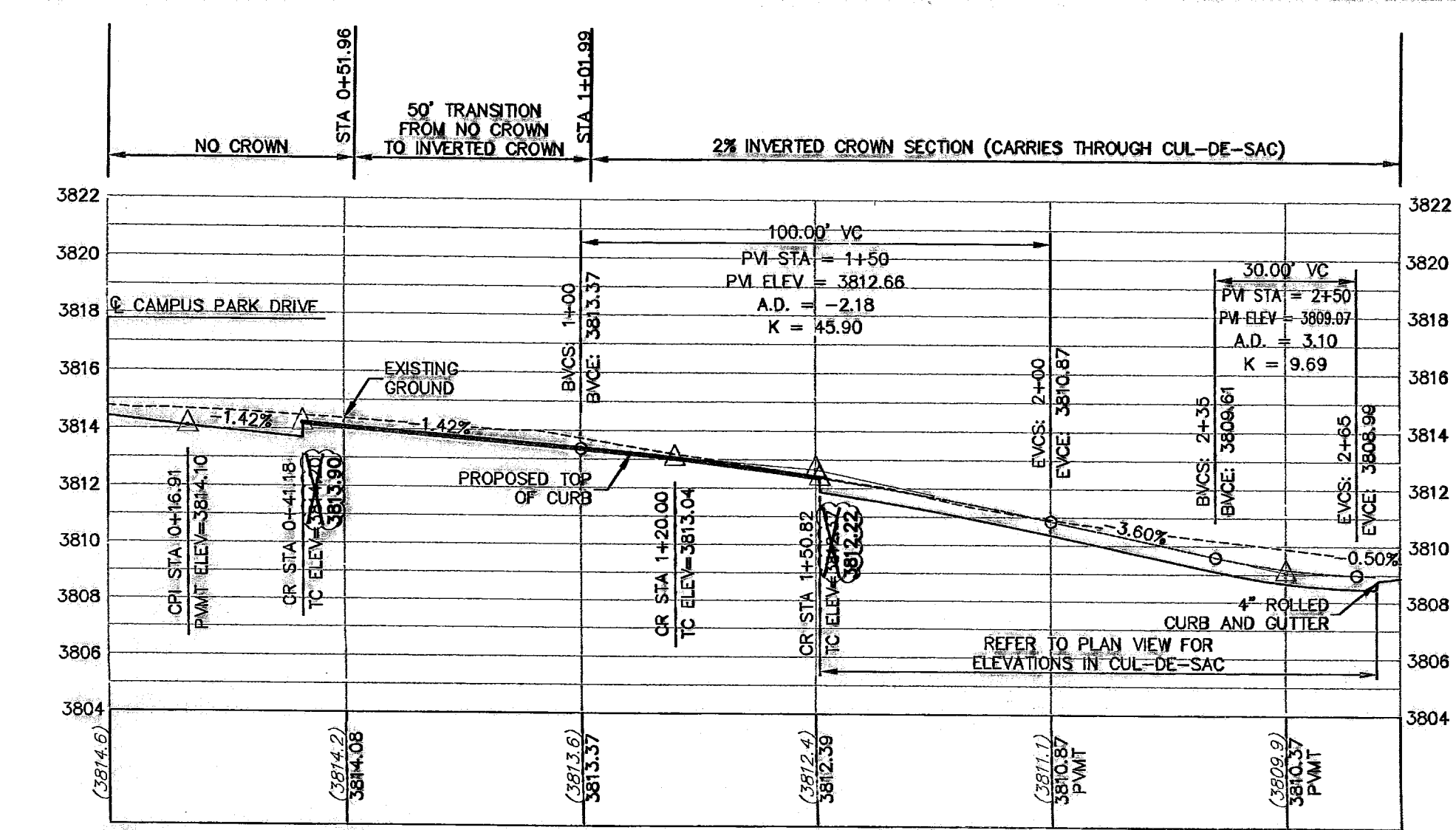
Nov 10, 2010 - 2:18pm
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 JCK



ALL SIDEWALKS AND ACCESSIBLE RAMPS SHALL COMPLY WITH ADA AND T&E STANDARDS AND GUIDELINES

| CURVE | RADIUS | LENGTH | TANGENT | CHORD | BEARING | DELTA |
|-------|---------|--------|---------|--------|-------------|------------|
| C1 | 28.50 | 54.37 | 40.18 | 48.49 | N40°36'49"W | 109°18'29" |
| C2 | 1018.00 | 93.47 | 48.77 | 93.44 | N87°21'48"E | 51°53'58" |
| C3 | 25.00 | 17.77 | 9.28 | 17.40 | S89°37'57"W | 40°43'15" |
| C4 | 45.00 | 56.43 | 40.93 | 60.58 | S88°26'18"E | 84°34'46" |
| C5 | 45.00 | 50.85 | 28.53 | 48.19 | S13°48'41"E | 64°44'27" |
| C6 | 45.00 | 68.62 | 42.98 | 62.16 | S82°16'56"W | 67°22'08" |
| C7 | 45.00 | 36.09 | 19.08 | 35.13 | N51°03'43"E | 45°53'44" |
| C8 | 25.00 | 27.02 | 15.00 | 25.72 | S59°02'46"E | 61°55'19" |
| C9 | 982.00 | 96.04 | 48.06 | 96.00 | N87°12'28"E | 53°51'31" |
| C10 | 1000.00 | 102.92 | 51.51 | 102.88 | N87°02'41"E | 53°57'49" |
| C11 | 30.00 | 49.33 | 32.29 | 43.98 | N37°16'55"E | 84°12'54" |
| C12 | 30.00 | 42.68 | 25.86 | 39.17 | N84°17'43"W | 81°50'58" |
| C13 | 318.00 | 83.55 | 42.02 | 83.31 | N82°29'24"E | 153°03'14" |
| C14 | 300.00 | 115.37 | 58.41 | 114.68 | N78°58'58"E | 220°02'05" |
| C15 | 25.00 | 29.30 | 16.60 | 27.68 | S58°25'09"W | 67°09'43" |
| C16 | 45.00 | 59.19 | 34.78 | 55.01 | N60°31'08"E | 75°21'45" |
| C17 | 45.00 | 40.51 | 21.74 | 39.15 | S56°00'42"W | 61°34'32" |
| C18 | 45.00 | 10.77 | 5.41 | 10.74 | S23°22'10"E | 13°42'51" |
| C19 | 5.00 | 6.33 | 3.67 | 5.92 | N62°47'11"W | 72°32'53" |
| C20 | 5.00 | 6.33 | 3.67 | 5.92 | N54°40'17"E | 72°32'53" |
| C21 | 45.00 | 11.04 | 5.55 | 11.01 | S25°25'37"W | 14°03'14" |
| C22 | 45.00 | 65.38 | 38.97 | 58.77 | S74°03'52"W | 83°31'51" |
| C23 | 45.00 | 5.61 | 2.81 | 5.60 | N60°45'22"E | 7°08'18" |
| C24 | 25.00 | 14.32 | 7.36 | 14.12 | S75°35'37"E | 32°48'42" |
| C25 | 282.00 | 83.98 | 32.12 | 83.92 | N63°30'09"E | 145°59'44" |
| C26 | 30.00 | 47.43 | 30.31 | 42.64 | N51°42'35"E | 90°35'28" |

- LEGEND**
- CENTER LINE OF ALIGNMENT
 - LOT LINE
 - UTILITY EASEMENT
 - CENTER LINE OF STREET
 - STREET R.O.W.
 - SUBDIVISION BOUNDARY LINE
 - PROPOSED TOP OF CURB FINISHED GRADES
 - EXISTING GRADE
 - PROPOSED TOP OF CURB ELEVATION
 - PROPOSED PAVEMENT ELEVATION
 - DIRECTION OF RUNOFF FLOW
 - HIGH POINT
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 - 50' TRANSITION AT INTERSECTION
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 - ACCESSIBLE RAMP
 - 5'x5' PASSING ZONE BY BUILDER
 - PARKWAY VARIES BY BUILDER
 - 4' SIDEWALK (TYP) BY BUILDER



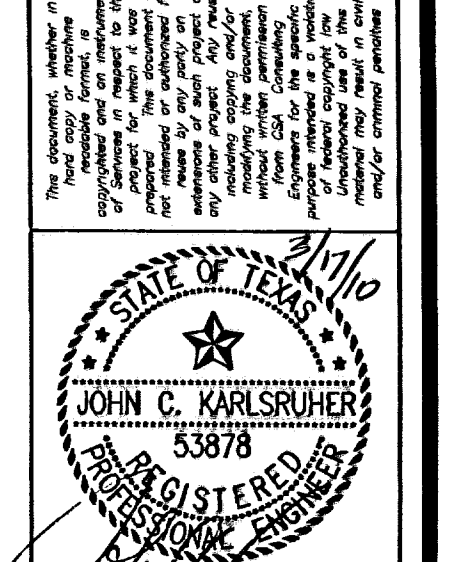
BENCHMARK: CITY MONUMENT AT THE CENTERLINE INTERSECTION OF NORTHWESTERN DRIVE AND PASSED DEL NORTE BOULEVARD (EL PASO CITY DATUM)
ELEVATION = 3886.84

| NO. | DATE | DESCRIPTION | BY |
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| 6 | 3/17/10 | Revised As-Built Drawings | JCK |
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1-800-530-5300
1-800-540-TESS
778-7414
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TIME WARNER CABLE
EL PASO TELEVISION STATION
1-800-344-8577



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Texas Registered Engineering Firm - F-0071
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El Paso, Texas 79912
Tel (915) 877-4155
Fax (915) 877-4334
www.csaengineers.com

CAMPUS PARK UNIT ONE SUBDIVISION

SHEET TITLE
JOSEPH DWAYNE / KAUFMAN LANE PLAN & PROFILES

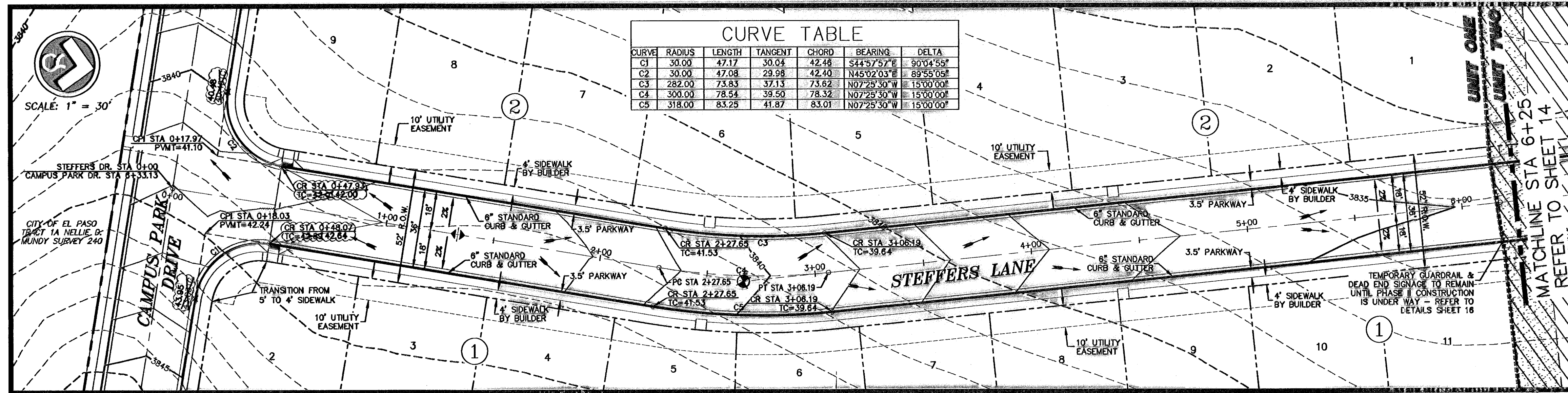
7008
12/11/07
AS NOTED
SCALE

12

RECORD DRAWING

Mr. 15, 2010 - 2119m
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600786



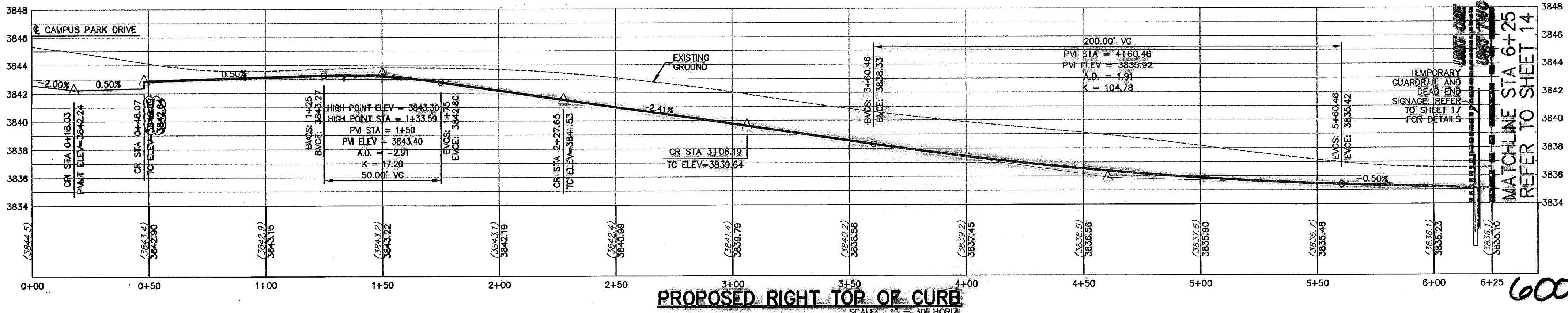
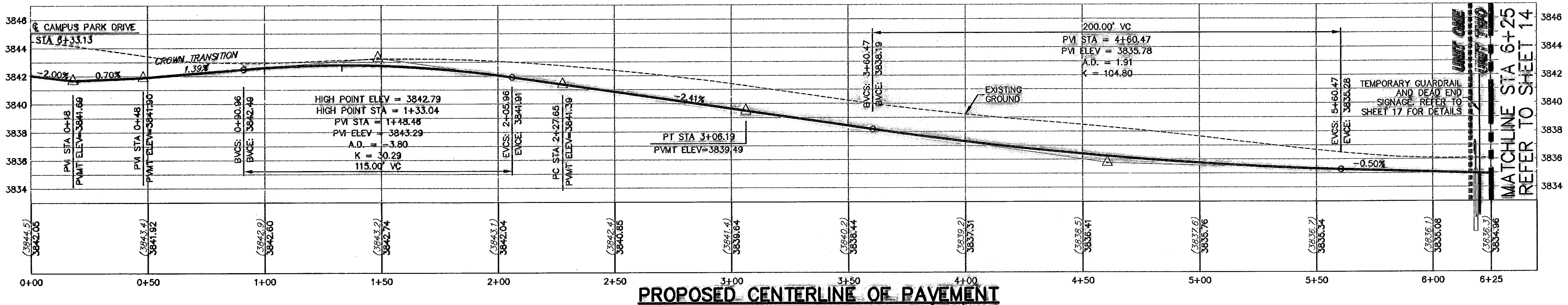
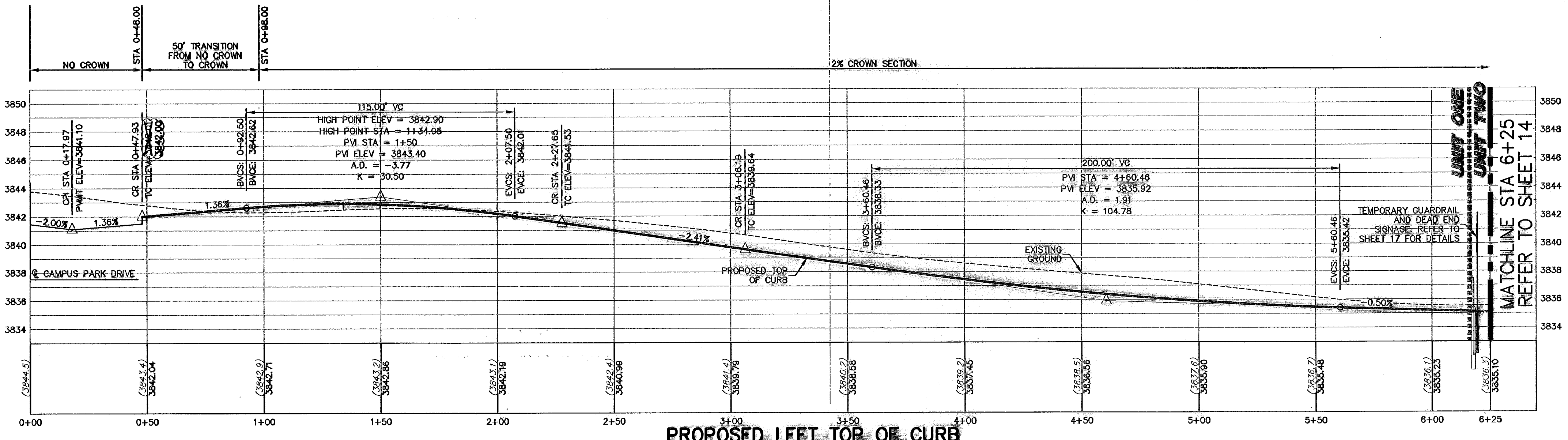
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| C2 | 30.00 | 47.08 | 29.98 | 42.40 | N45°02'03"E | 89°55'05" |
| C3 | 282.00 | 73.83 | 37.13 | 73.62 | N07°28'30"W | 15°00'00" |
| C4 | 300.00 | 78.54 | 39.50 | 78.32 | N07°25'30"W | 15°00'00" |
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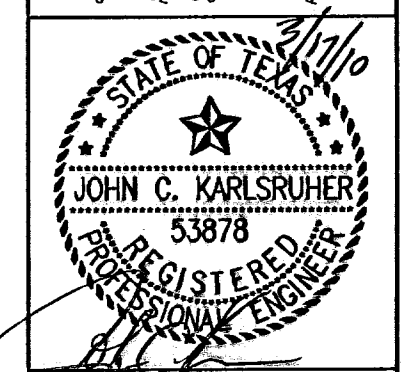
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|-----|----------|---------------------------|-----|
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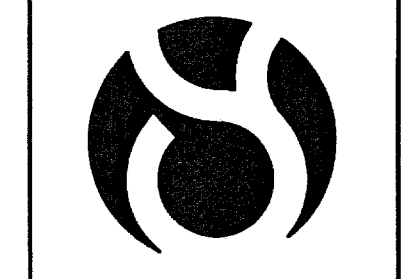
BEFORE YOU DIG - CALL
543-5720
1-800-DIG-TESS
409-500-4502-2003
409-500-4502-2003
1-800-DIG-TESS
775-7414
1-800-344-8377



- LEGEND**
- LOT LINE
 - - - UTILITY EASEMENT
 - CENTER LINE OF STREET
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 - CENTER LINE OF ALIGNMENT
 - 4" ROLLED CURB & GUTTER
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 - ▲ 50' TRANSITION AT INTERSECTION
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 - ▲ ACCESSIBLE RAMP
 - 5'x5' PASSING ZONE BY BUILDER
 - R.O.W. PARKWAY VARIES BY BUILDER
 - 4" SIDEWALK (TYP) BY BUILDER



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Tel: (915) 877.4155
Fax: (915) 877.4334
www.csaengineers.com



CAMPUS PARK UNIT ONE SUBDIVISION

STEFFERS DRIVE PLAN & PROFILE

| | |
|--------------|----------|
| DOB | 7008 |
| DATE BY | JR JR |
| DD - EC - GB | 12/11/07 |
| DATE BY | JR JR |
| JCK | AS NOTED |
| DATE BY | JR JR |
| SCALE | |

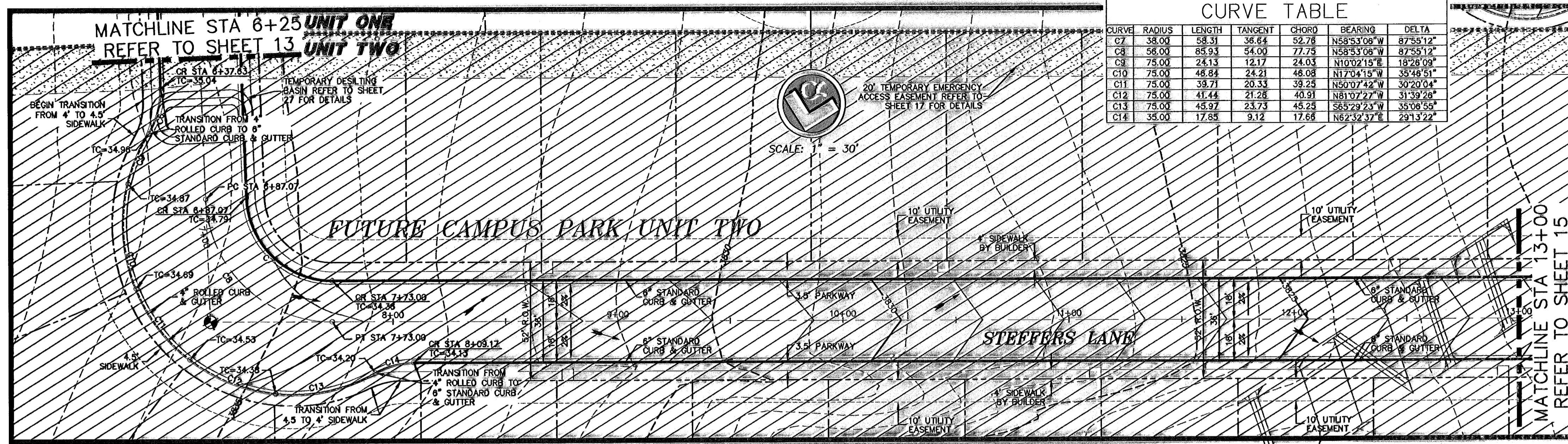
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RECORD DRAWING

SHEET NO. **13**
OF **28**

Mar 16, 2010 - 2:20pm
S:\V\001 Campus Park (Tombler, Comm)\001 AS-BUILT\BUILTS UNIT ONE\001 12-15 Steffers Drive Plan.dwg
User: jck

600786



| CURVE TABLE | | | | | | |
|-------------|--------|--------|---------|-------|-------------|-----------|
| CURVE | RADIUS | LENGTH | TANGENT | CHORD | BEARING | DELTA |
| C7 | 38.00 | 58.31 | 36.64 | 52.78 | N58°3'08"W | 87°55'12" |
| C8 | 58.00 | 85.93 | 54.00 | 77.75 | N58°3'08"W | 87°55'12" |
| C9 | 75.00 | 24.13 | 12.17 | 24.03 | N10°02'15"E | 18°26'09" |
| C10 | 75.00 | 48.84 | 24.21 | 48.08 | N17°04'15"W | 35°48'51" |
| C11 | 75.00 | 39.71 | 20.33 | 39.25 | N50°07'42"W | 30°20'04" |
| C12 | 75.00 | 41.44 | 21.28 | 40.91 | N81°02'22"W | 31°59'24" |
| C13 | 75.00 | 45.97 | 23.73 | 45.25 | S85°29'23"W | 35°08'55" |
| C14 | 38.00 | 17.85 | 9.12 | 17.68 | N62°32'37"E | 29°13'22" |

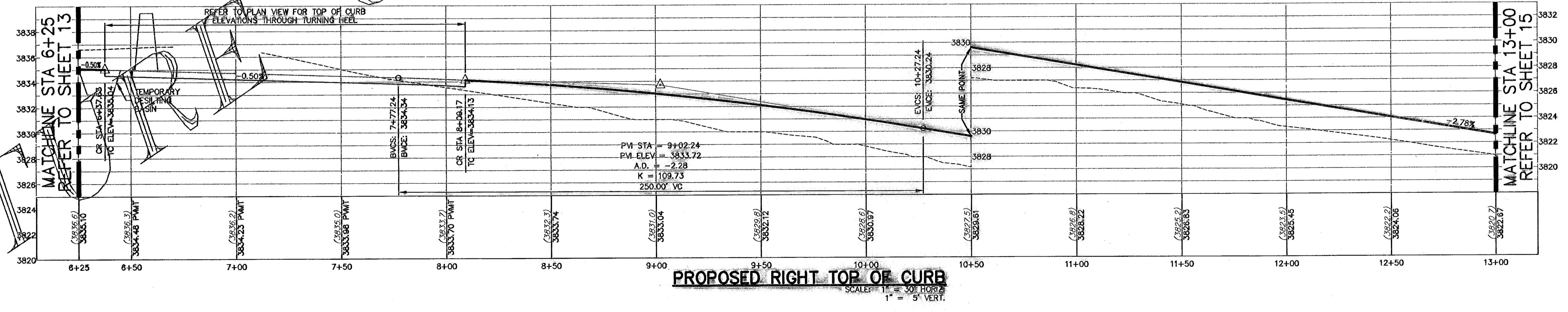
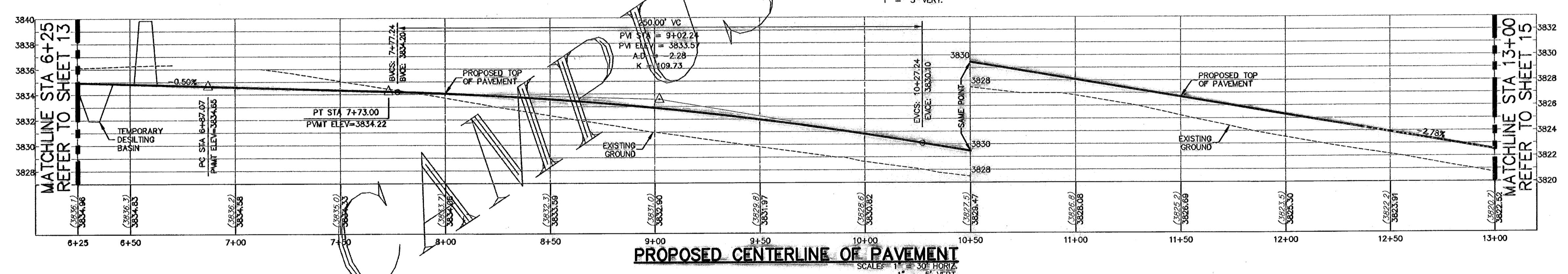
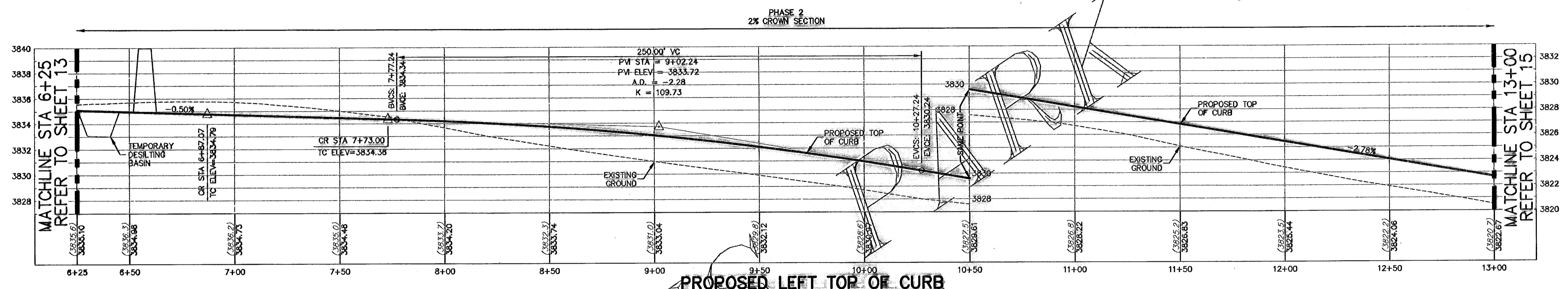
ALL SIDEWALKS AND ACCESSIBLE RAMPS SHALL COMPLY WITH ADA AND TDS STANDARDS AND GUIDELINES.

THE TEMPORARY BERM AND DESILTING BASINS WILL REMAIN AND SHALL BE MAINTAINED BY THE DEVELOPER UNTIL PHASE 2 CONSTRUCTION COMMENCES.

| NO. | DATE | DESCRIPTION | BY |
|-----|----------|---------------------------|-----|
| 6 | 3/12/10 | Revised As-Built Drawings | JCK |
| 5 | 9/14/09 | Revised As-Built Drawings | JCK |
| 4 | 9/26/08 | As-Built Drawings | JCK |
| 3 | 2/14/08 | Final Submittal | JCK |
| 2 | 1/28/08 | 2nd City Submittal | JCK |
| 1 | 12/11/07 | 1st City Submittal | JCK |

WARNING!
BEFORE YOU DIG CONTRACTOR SHALL FIELD LOCATE ALL EXISTING UNDERGROUND IMPROVEMENTS IN PROJECT AREA.

BEFORE YOU DIG - CALL
543-5720
1-800-00-TESS
1-862-8411/562-2003
1-800-00-TESS
7260-114-8047
TEXAS EXCAVATION SAFETY SYSTEM



- LEGEND**
- LOT LINE
 - UTILITY EASEMENT
 - CENTER LINE OF STREET
 - STREET R.O.W.
 - CENTER LINE OF ALIGNMENT
 - 4" ROLLED CURB & GUTTER
 - SUBDIVISION BOUNDARY LINE
 - 3728.85 PROPOSED TOP OF CURB FINISHED GRADES
 - (3729.2) EXISTING GRADE
 - TC=08.09 PROPOSED TOP OF CURB ELEVATION
 - PVMT=08.65 PROPOSED PAVEMENT ELEVATION
 - ↑ DIRECTION OF RUNOFF FLOW
 - ▲ HIGH POINT
 - ▼ LOW POINT
 - △ POINT OF VERTICAL INTERSECTION
 - 50' TRANSITION AT INTERSECTION
 - PROPOSED CITY MONUMENT
 - ACCESSIBLE RAMP
 - 5'x5' PASSING ZONE BY BUILDER
 - PARKWAY VARIES BY BUILDER
 - 4" SIDEWALK (TYP) BY BUILDER
 - R.O.W.

JOHN C. KARLSRUHER
REGISTERED ENGINEER
53878

csa design group, inc.
Texas Registered Engineering Firm, License No. 1845
1845 Northwindsom Dr., Ste C
El Paso, Texas 79912
Tel: (915) 877-4155
Fax: (915) 877-4534
www.csaengineering.com



CAMPUS PARK UNIT ONE SUBDIVISION

STEEFFERS DRIVE PLAN & PROFILE

| | |
|--------------|----------|
| DOB | 7008 |
| DATE BY | JR |
| DC ~ EC ~ CB | 12/11/07 |
| DRAWN BY | ECW |
| JCK | AS NOTED |
| SCALE | SCALE |

14
28

600786
FUTURE CAMPUS PARK UNIT TWO
RECORD DRAWING

FUTURE

THESE RECORD DRAWINGS HAVE BEEN PREPARED IN ACCORDANCE WITH THE DOCUMENTATION PROVIDED BY THE DEVELOPER, AS WELL AS INFORMATION FROM FIELD VISITS AND SURVEY INFORMATION. THE ACCURACY OF THE INFORMATION PROVIDED BY OTHERS IS NOT WARRANTED BY THIS FIRM.