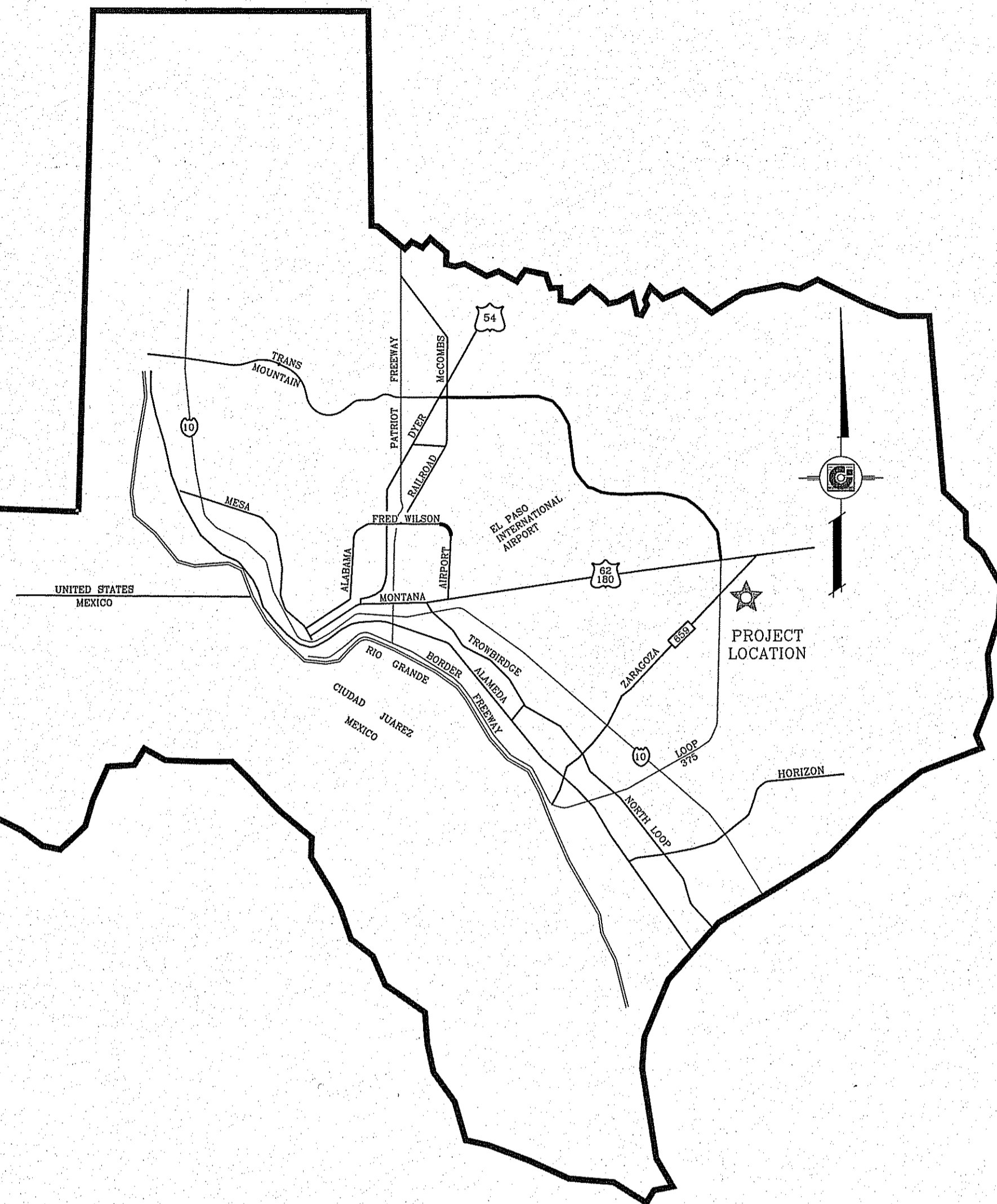
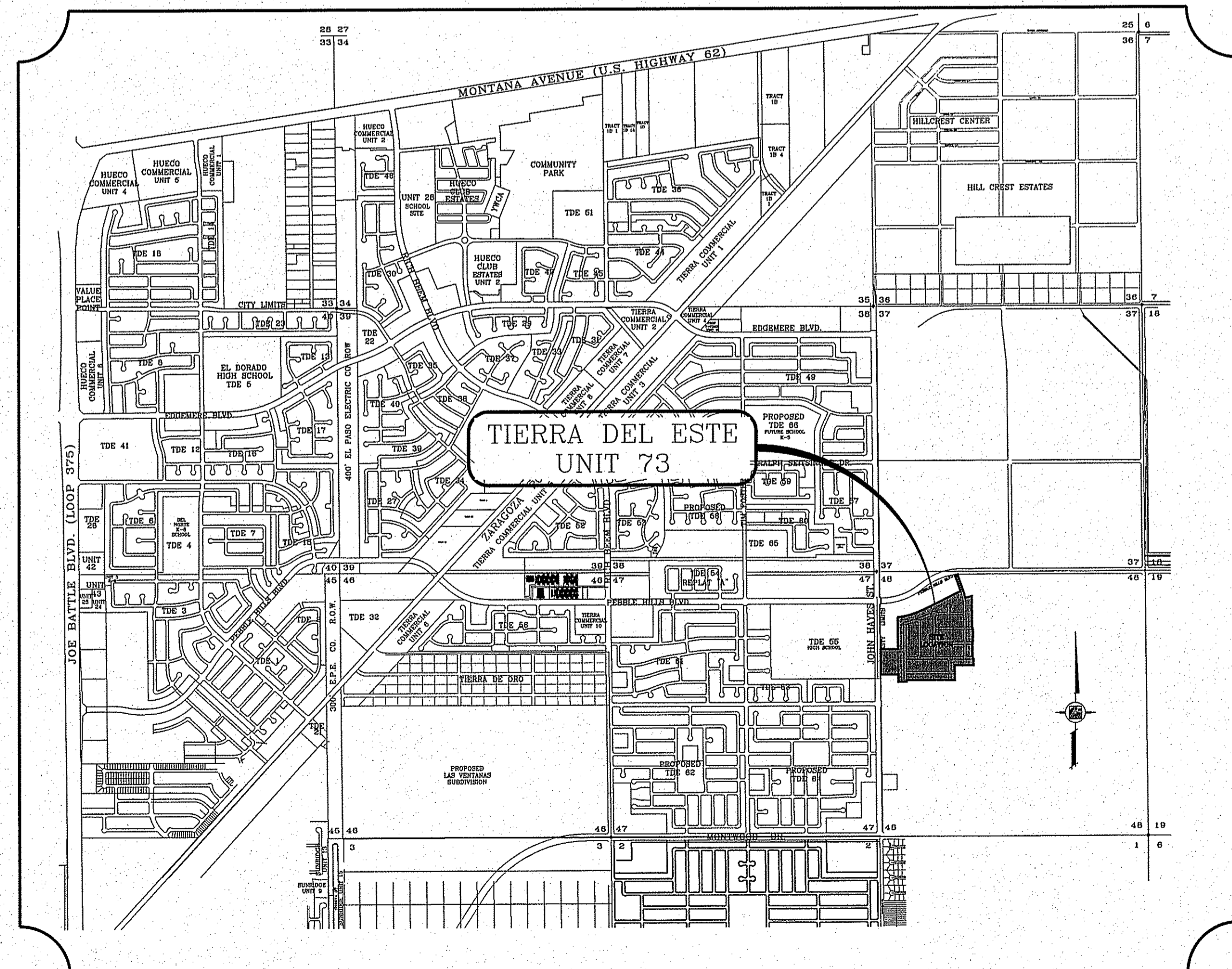


El Paso

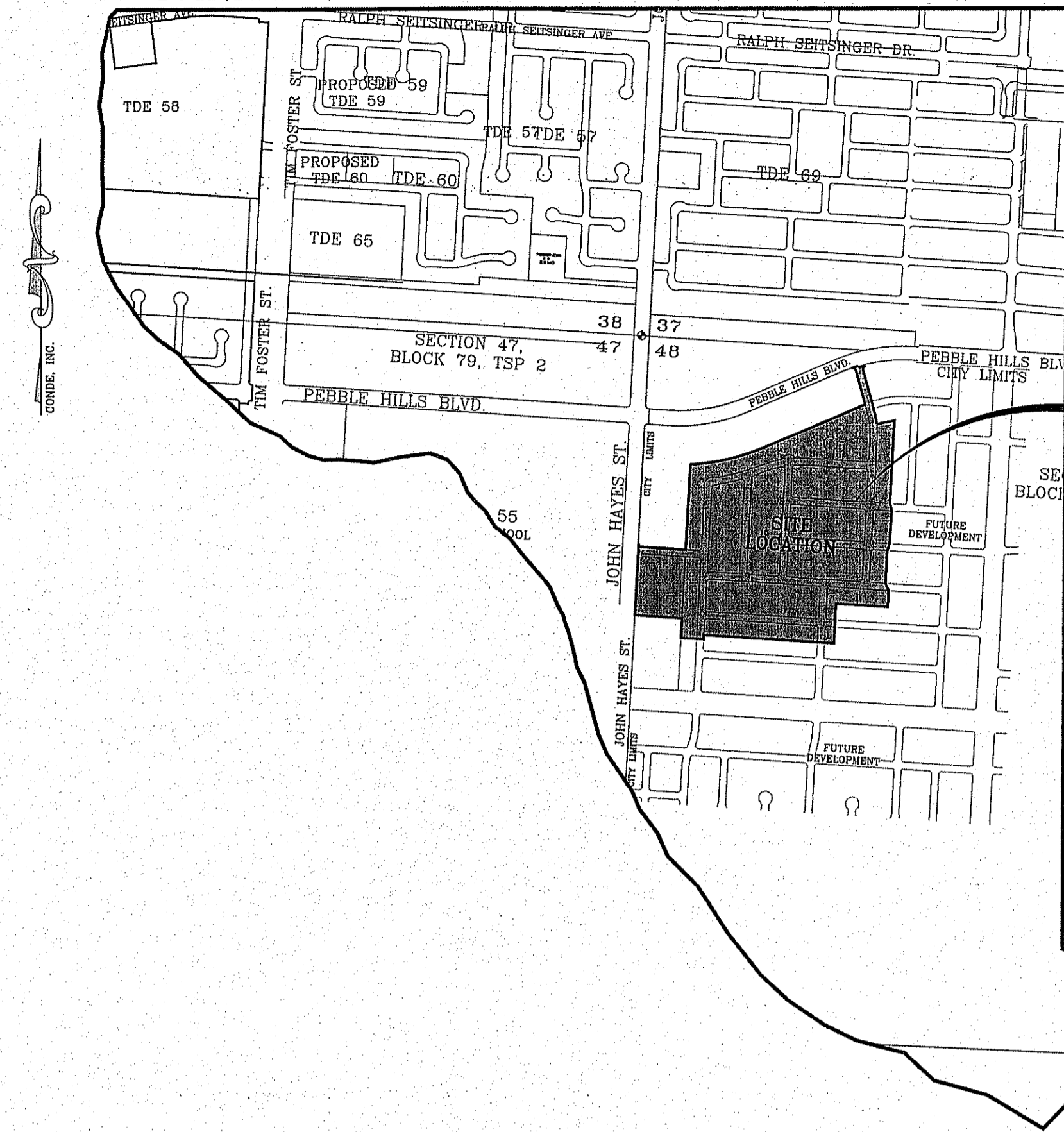


LOCATION MAP

SCALE: 1" = 1000'



VICINITY MAP



TIERRA DEL ESTE
UNIT SEVENTY THREE
PROJECT
LOCATION

STREET IMPROVEMENTS

I N D E X

TITLE	SHEET No.	TITLE	SHEET No.
COVER SHEET	1 of 39	FRED ROBERTS DR.	21-23 of 39
PLAT	2 of 39	WILHOIT PL.	24 of 39
GRADING PLAN	3 of 39	TIERRA VICO PL.	25 of 39
GRADING SECTIONS	4 of 39	TIERRA MADRID CT.	26 of 39
DRAINAGE PLAN	5 of 39	POND & POND DETAILS	27 of 39
SWPPP & GSP PLAN AND NOTES	6-7 of 39	PROPOSED STRUCTURES	28-30 of 39
TIERRA MURCIA ST. / TIERRA BILBAO DR.	8-11 of 39	WATER DISTRIBUTION PLAN	31 of 39
CIAMBRIELLO AVE.	12-13 of 39	SEWER DISTRIBUTION PLAN	32 of 39
TIERRA OVIEDO AVE.	14-15 of 39	SEWER PROFILES	33-35 of 39
TIERRA MALAGA PL.	16 of 39	ILLUMINATION AND TRAFFIC CONTROL PLAN	36 of 39
TIERRA GIJON PL.	17-18 of 39	STANDARD DETAILS	37-38 of 39
TIERRA CORUÑA AVE.	19 of 39	STRUCTURE DETAILS	39 of 39
TIERRA BURGOS AVE.	20 of 39	LANDSCAPE AND IRRIGATION	L1-L5 of 5

PROJECT NAME
TIERRA DEL ESTE UNIT SEVENTY THREE
BEING PORTION OF SECTION 48, BLOCK 79, TOWNSHIP 2, TEXAS AND PACIFIC RAILWAY CO. SURVEYS, EL PASO COUNTY, TEXAS CONTAINING: 52.766± ACRES



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



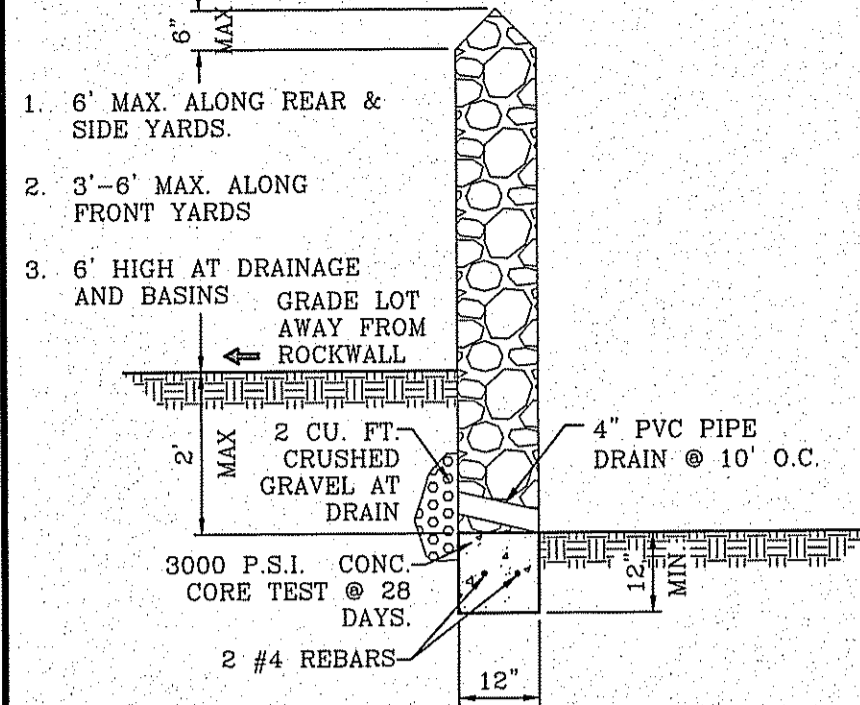
CITY DEVELOPMENT DEPARTMENT
Reviewed For Conformance For Condition Related To:

- Sidewalks
- Grading & Drainage
- Wheelchair Ramps
- On Site Parking Layout
- Detention
- Retaining Bank Walls
- On Site Paving of Storm Water

Contractor Must Call 24 Hours Prior To Construction for Inspections
[Signature] 2/16/2017

FILE LOCATION S:\Subdivisions\TDE 73\DWG\GDLP_REVISED PLOTTED ON Saturday, October 08, 2016 2:30:16 PM BY ESTEBAN JUAREZ

ROCKWALL NOTES:



- 1. STONE FOR ROCKWALLS SHALL BE AS NEARLY UNIFORM IN SECTIONS AS IS PRACTICABLE. THE STONE SHALL BE DENSE AND RESISTANT TO AIR AND WATER.
2. MORTAR MUST BE TYPE "S" 1800 P.S.I. AS PER ASTM C270.
3. MASONRY WALLS OVER SIX (6) FEET IN HEIGHT AND THOSE USED FOR EARTH RETENTION OVER TWO (2) FEET MUST BE DESIGNED AS STRUCTURAL WALLS.
4. WALLS ADJACENT TO PONDING AREAS OR DRAINAGE DITCHES MAY BE CONSTRUCTED OF BRICK, CONCRETE BLOCK, OR STONE AND SHALL NOT BE LESS THAN SIX (6) FEET HIGH.
5. ROCKWALL MORTAR JOINTS MUST NOT EXCEED TWO (2) INCHES.
6. PROVIDE ONE (1) INCH EXPANSION JOINTS AT EVERY 100 FEET.
7. ALL STONE SHALL BE THOROUGHLY SOAKED BEFORE BEING PLACED.
8. NO RIVER ROCK SHALL BE ALLOWED.
9. ALL RETAINING ROCKWALL EQUAL OR HIGHER THAN 4' TO BE DONE BY DEVELOPER.

ROCKWALL DETAIL SCALE: 1"=2'

ALL WHEELCHAIR RAMPS TO BE BY DEVELOPER

CONSTRUCTION ACTIVITY REQUIREMENTS:

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

18.44.020 - PERMIT CLOSOUT PROCEDURE:

AFTER THE PERMITTEE COMPLETES THE GRADING UNDER THE PERMIT, THE PERMIT SHALL BE CLOSED. AS PART OF THE CLOSOUT PROCEDURE, THE APPLICANT MUST SUBMIT THE FOLLOWING TO THE CITY:

- A. A STATEMENT FROM THE ENGINEER OF RECORD THAT STATES "THE GRADING OPERATION HAS BEEN SUBSTANTIALLY COMPLETED AND GENERALLY CONFORMS TO THE APPROVED SET OF PLANS". THE PERMITTEE SHALL CALL THE PERMIT OFFICIAL TO ESTABLISH THE BEGINNING OF THE WARRANTY PERIOD AND TO NOTIFY THE PERMIT OFFICIAL THAT THE G.P. HAS BEEN IMPLEMENTED.
B. A COPY OF THE NOTICE OF TERMINATION FILED WITH THE STATE OR DATED CONSTRUCTION SITE NOTICE, IF APPLICABLE, IN ACCORDANCE WITH CHAPTER 15.
THE CITY WILL ISSUE A LETTER STATING GENERAL CONFORMANCE TO THE PERMIT S BEEN MET AND THAT THE WARRANTY PERIOD REQUIREMENTS WILL CONTINUE TO BE IN EFFECT.

18.44.080 - WARRANTY:

ANY PERSON ISSUED A PERMIT SHALL AGREE WARRANT AND MAINTAIN THE AREA DESCRIBED IN THE PERMIT FOR A PERIOD OF TWO YEARS AFTER THE PERMIT IS CLOSED BY THE CITY PURSUANT TO SECTION 18.44.020, OR UNTIL A BUILDING PERMIT IS ISSUED FOR THE PURPOSE OF MAINTAINING A STABILIZED SITE IN ACCORDANCE WITH THE APPROVED G.P. WHICHEVER FIRST OCCURS (THE "WARRANTY" OR "WARRANTY PERIOD"). THE CITY MAY CONDUCT INSPECTIONS OF THE PERMITTED AREA THROUGHOUT THE WARRANTY PERIOD AND REQUIRE MAINTENANCE AND CORRECTION OF THE WORK BY THE PERMIT HOLDER. FAILURE OF THE PERMIT HOLDER TO CORRECT THE WORK SHALL CONSTITUTE A FAILURE TO COMPLY WITH THE PROVISIONS OF THIS CHAPTER.

GENERAL NOTES:

- 1. IMPROVEMENT WITHIN CITY R.O.W. SHALL COMPLY WITH TITLE 19-SUBDIVISION ORDINANCE-"SUBDIVISION IMPROVEMENT DESIGN STANDARDS".
2. CONTRACTOR SHALL PROVIDE TEMPORARY MEASURES FOR THE MANAGEMENT OF STORM WATER RUNOFF ENTERING, EXITING AND ON SITE DURING THE COURSE OF THE CONSTRUCTION. TEMPORARY BERMS, DESILTING BASIN, CHECK DAMS, PIPING ETC. SHALL BE PROVIDED AS NECESSARY.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION AND NOTIFICATION WITH ALL APPURTENANT UTILITY COMPANIES WHOSE LINES ARE WITHIN THE CONSTRUCTION CONTRACT AREA. THE CONTRACTOR SHALL NOTIFY UTILITY COMPANIES 48 HOURS PRIOR TO ANY CONSTRUCTION ON SITE. THE CONTRACTOR WILL BE RESPONSIBLE PHYSICALLY AND FINANCIALLY FOR ANY DISRUPTION TO SERVICE EITHER ON SITE OR OFF SITE DUE TO BREAKAGE OF UTILITY LINES.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL DATA SHOWN ON THE PLANS. IF DISCREPANCIES ARE FOUND THE CONTRACTOR SHALL NOTIFY THE OWNER OR ENGINEER IMMEDIATELY SO THAT PROPER CORRECTIONS CAN BE MADE.
5. EQUIPMENT OF A CONDITION AND DESIGN SUFFICIENT TO ENSURE A THOROUGH AND WORKMANLIKE PROSECUTION OF THE PROJECT SHALL BE USED AT ALL TIMES.
6. ALL ELEVATIONS ARE TO CITY DATUM UNLESS OTHERWISE NOTED.
7. ALL WASTE MATERIALS INCLUDING EXCAVATION, CURBING, PAVEMENT, ETC. SHALL BE DISPOSED OF AS DESIGNATED BY THE OWNER OR HIS REPRESENTATIVE.
8. THE CONTRACTOR SHALL NOTIFY THE OWNER, OR HIS REPRESENTATIVE, IN SUFFICIENT TIME IN ADVANCE OF DELIVERY OF MATERIALS TO BE SUPPLIED BY HIM UNDER THIS PROJECT, IN ORDER THAT THE OWNER MAY ARRANGE, IF DESIRED, INSPECTION AND TESTING FOR SAME.
9. SAFE AND REASONABLE ACCESS FOR THIS SITE MUST BE MAINTAINED AT ALL TIMES DURING THE LIFE OF THE PROJECT.
10. ANY CAVITY REMAINING OPEN DURING NONWORKING HOURS MUST BE GUARDED BY FLASHER TYPE BARRICADES WITH STRINGERS PLACED BETWEEN THE TOPS OF THE BARRICADES.
11. DEVELOPER SHALL COMPLY WITH SECTION 13.08.170 "EXCESSIVE PAVING CUTS" AS PER EL PASO MUNICIPAL CODE.

GENERAL EARTHWORK NOTES:

- 1. ALL GRADING SHALL CONFORM TO THE CITY OF EL PASO GRADING ORDINANCE SECTION 18.44.
2. THE CONTRACTOR SHALL CARRY ON HIS WORK WITH SPECIAL CARE AT ALL TIMES TO MAINTAIN THE NATURAL SURROUNDINGS AND EXISTING STRUCTURES IN AN UNDAUNAGED CONDITION.
3. NATURAL SUBGRADES TO SUPPORT STRUCTURAL FILL OR PAVEMENTS SHOULD BE STRIPPED OF ALL VEGETATION OR ORGANIC TOPSOIL. THE EXPOSED SUBGRADE SHOULD BE SCARIFIED JUST PRIOR TO FILL PLACEMENT TO A MINIMUM DEPTH OF 6 INCHES AND RECOMPACTED TO A MINIMUM OF 95% OF MAXIMUM DENSITY AS PER ASTM D-1557. ALL BACKFILL MATERIAL TO BE PLACED IN HORIZONTAL LAYERS NOT TO EXCEED EIGHT (8) INCH LIFTS AND COMPACTED AS BEFORE.
4. TEMPORARY DUST AND EROSION CONTROL MEASURES SHALL BE PROVIDED FOR AT ALL TIMES.
5. ANY EROSION OF THE GRADED SITE DURING THE COURSE OF THE PROJECT SHALL BE CORRECTED PRIOR TO FINALIZATION OF THE PROJECT AT NO COST TO THE OWNER.
6. ALL SLOPES AND SWALES WITHIN LOTS SHALL BE MAINTAINED BY LOT OWNER.

CONSTRUCTION NOTES:

- 1. ALL CONCRETE FOR STRUCTURES SHALL BE 3000 P.S.I. UNLESS OTHERWISE NOTED.
2. MINIMUM COVER FOR REINFORCING STEEL SHALL BE 2" UNLESS OTHERWISE NOTED.
3. 95% COMPACTION REQUIRED FOR STRUCTURES AS PER ASTM D1557.
4. REINFORCING SHALL CONFORM TO THE REQUIREMENTS OF ASTM A615 GRADE 60.
5. RETAINING WALLS WILL BE REQUIRED WHERE THERE IS GRADE DIFFERENCE OF 2' OR MORE FEET BETWEEN LOTS AND STREET. RETAINING WALL DESIGN AT TIME OF BUILDING PERMIT.

ALL UTILITIES SHALL BE PLACED IN PARKWAY. NO UTILITIES SHALL BE PLACED ON SIDEWALKS (I.E. NCDUB'S, FIRE HYDRANTS, LIGHT POLES, SIGNS, POWER POLES, ETC...)

DRIVEWAY SLOPES MUST BE 10% MAXIMUM FROM GUTTER TO SIDEWALK, 2% FOR SIDEWALK AND 14% MAXIMUM THEREAFTER

TYPICAL LOT GRADING SCALE: 1"=40'

LEGEND table with symbols for proposed finish floor, spot elevation, boundary, high/low points, contours, curbs, and retaining walls.

NOTE: HEREON DESCRIBED TRACT LIES IN ZONE X, COMMUNITY PANEL NO. 400212 01763, DATED SEPTEMBER 4, 1991.

SEE SHEETS 28-30 FOR DRAINAGE STRUCTURES

NOTE: A. ALL UTILITIES SHALL BE A MINIMUM FIVE (5) FEET DEEP. B. WHERE POSSIBLE AND PREFERABLY, UTILITIES SHALL BE PLACED UNDERNEATH THE PROPOSED 7' WIDE SIDEWALK TO AVOID FUTURE CONFLICT WITH THE PROPOSED STREET TREE LINE OR DAMAGE TO THE UTILITIES. C. NO TRANSFORMERS, PEDESTAL OR JUNCTION BOXES SHALL BE INSTALLED WITHIN "PARK SITE" OR WITHIN NEW SIDEWALKS

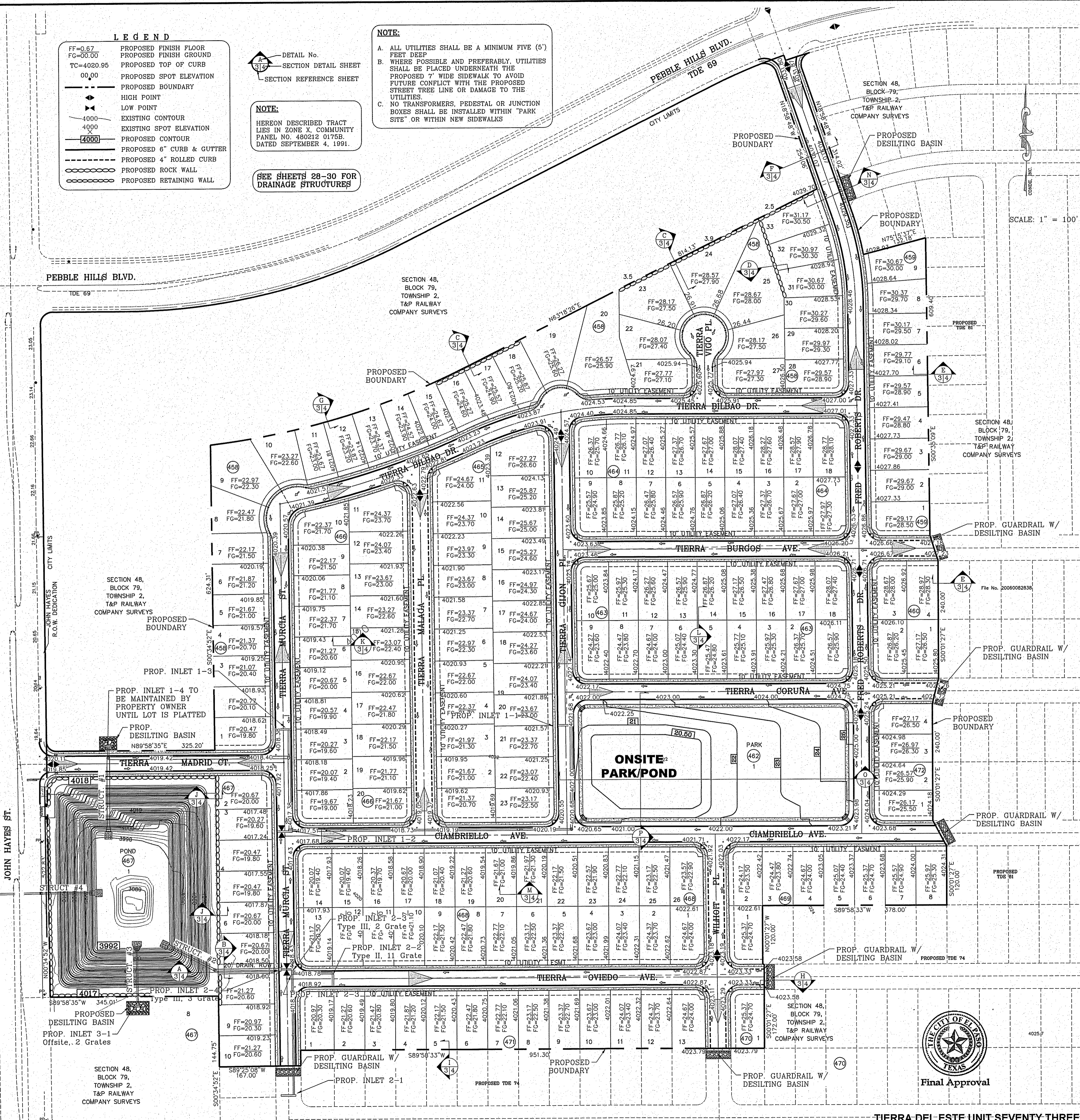


Table with columns: PROJECT NAME, CITY MONUMENT AT THE CENTERLINE INTERSECTION OF CITY SADDLEHORSE PL. AND HOLLY SPRINGS AVE., ELEVATION 4024.74, DATE, REVISIONS, BY.

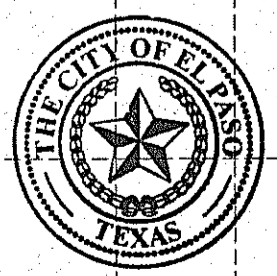
TERRA DEL ESTE UNIT 73 BEING PORTION OF SECTION 48, BLOCK 79, TOWNSHIP 2, TEXAS AND PACIFIC RAILWAY CO. SURVEYS. EL PASO COUNTY, TEXAS. CONTAINING .587,9661 ACRES

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

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

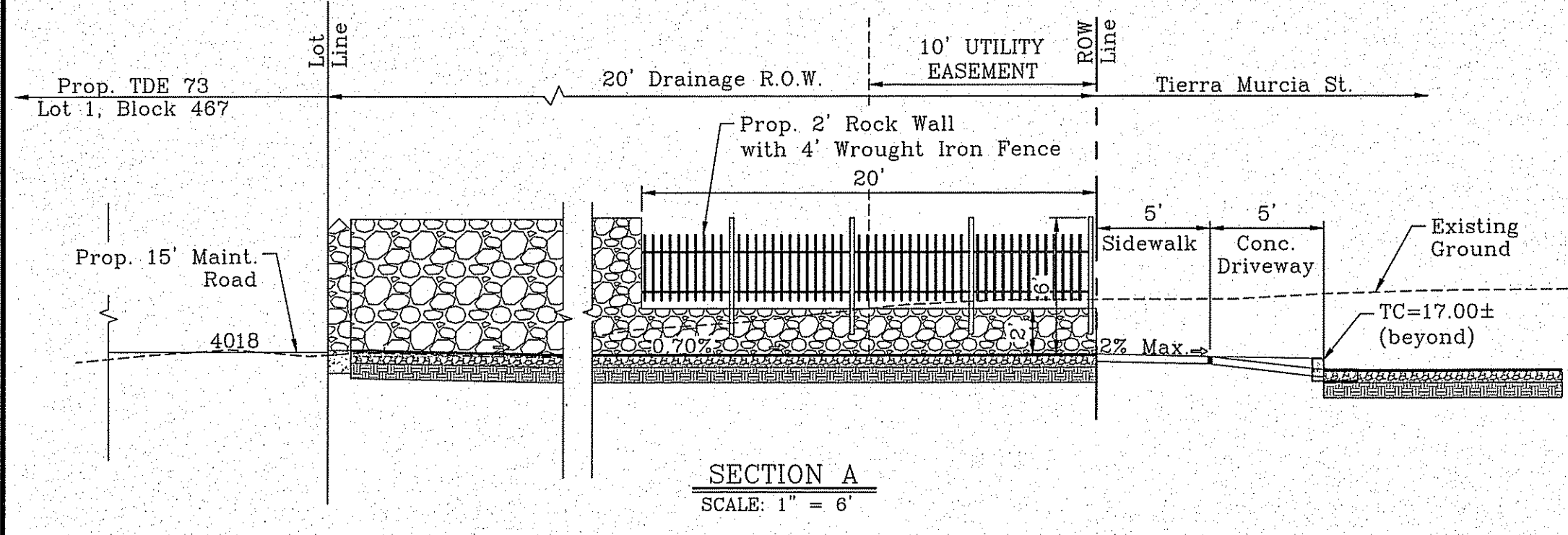
CONDE INC. REGISTRATION No. F-2321 SHEET TITLE

GRADING PLAN SHT 3 OF 39

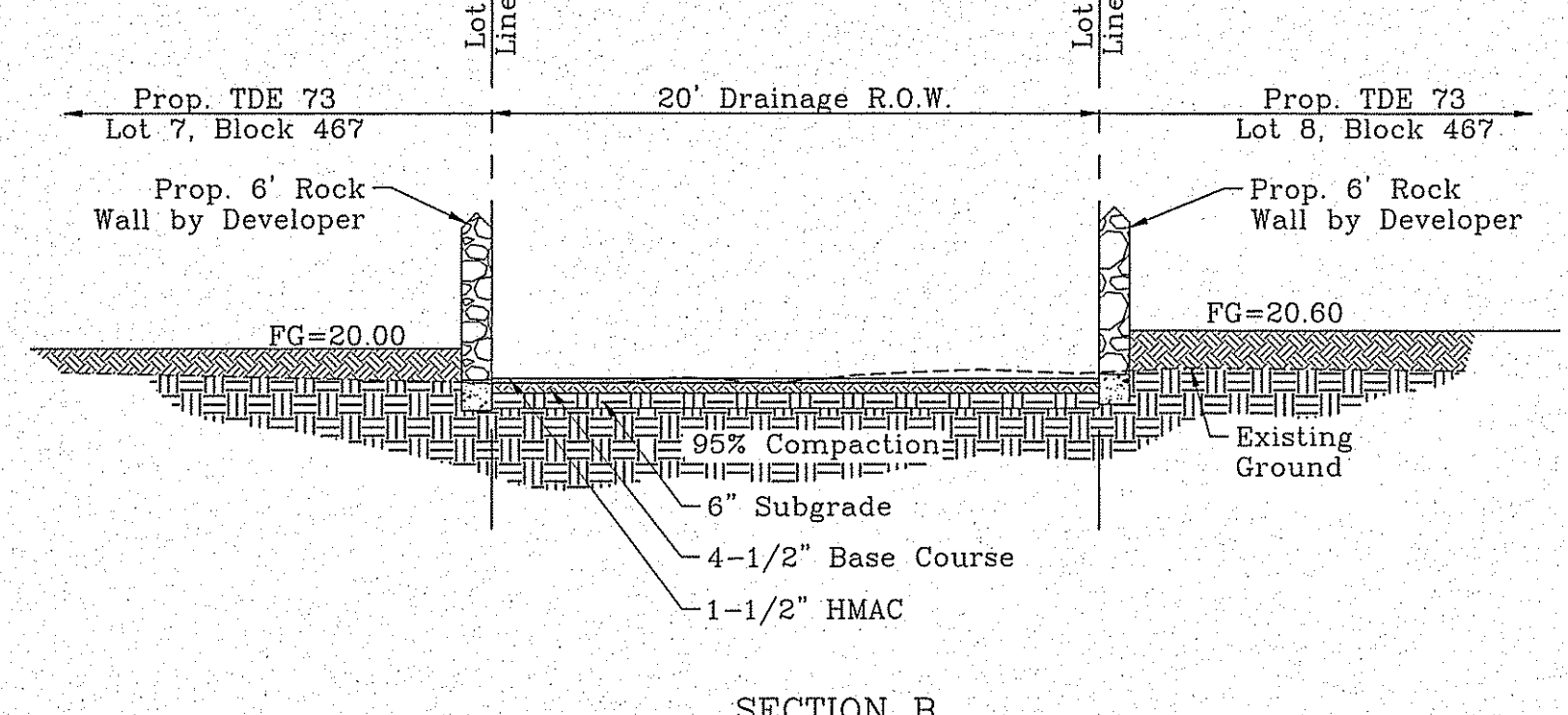


Final Approval

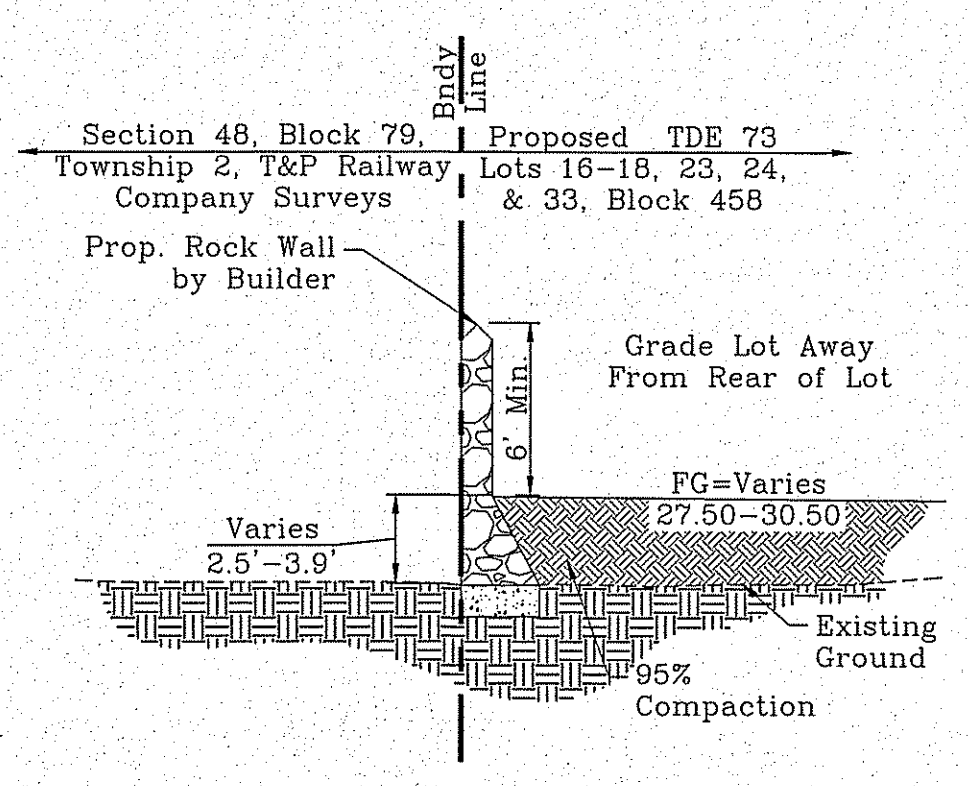
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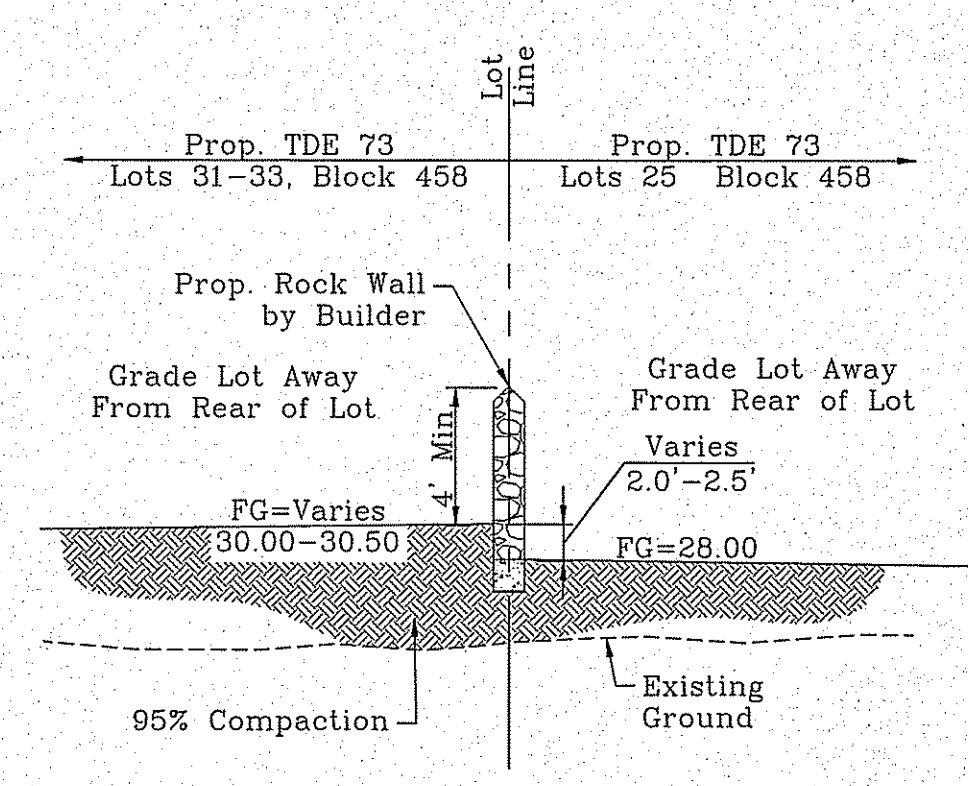
SECTION A
SCALE: 1" = 6'



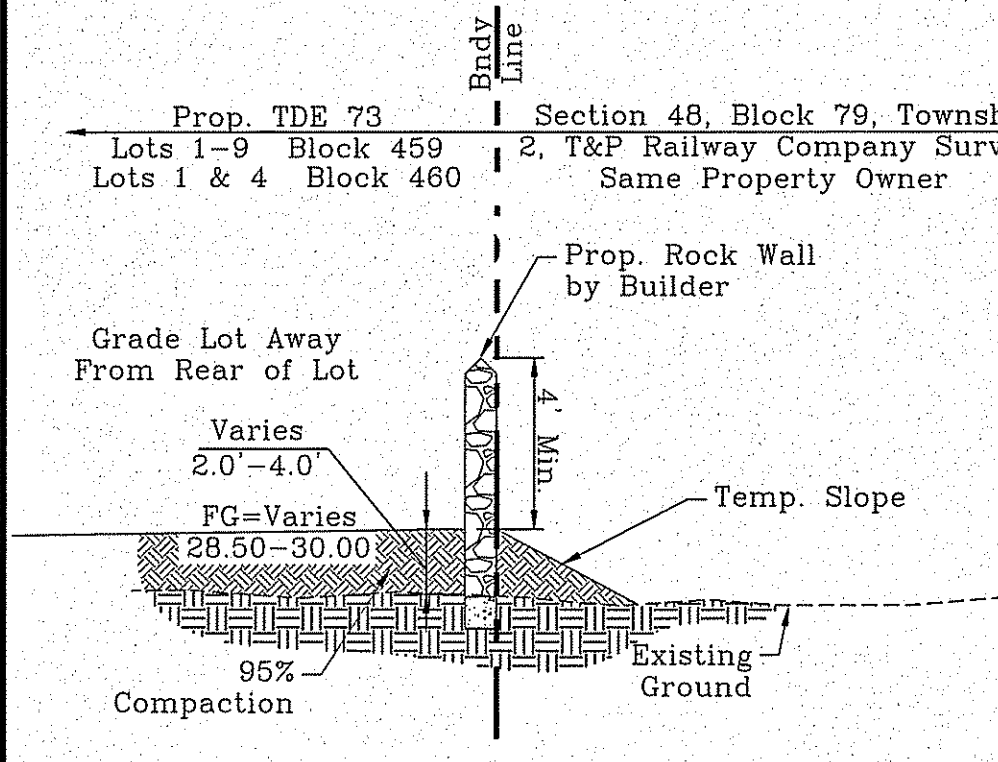
SECTION B
SCALE: 1" = 6'



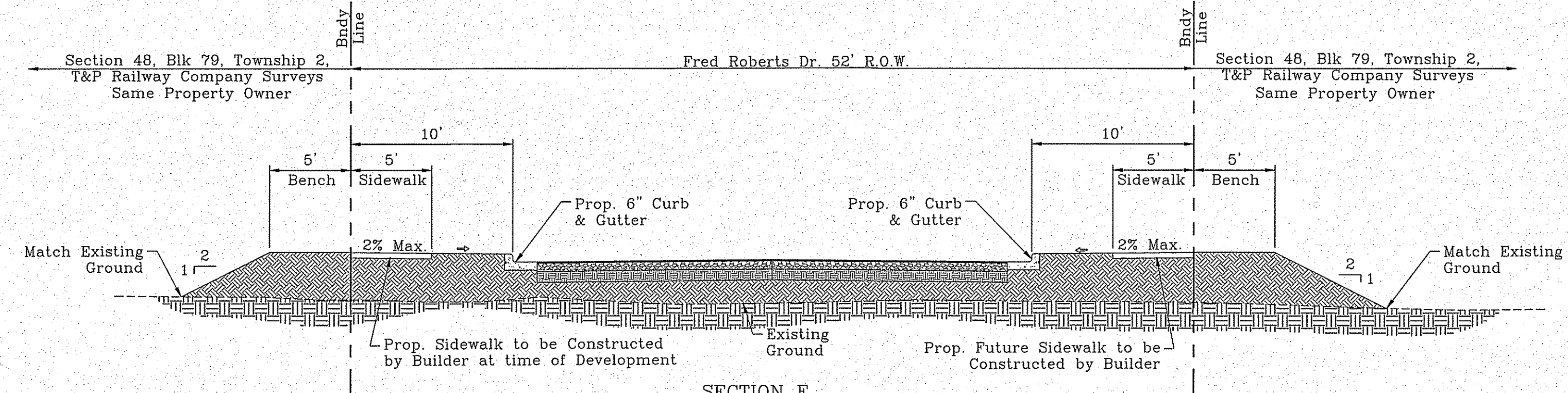
SECTION C
SCALE: 1" = 6'



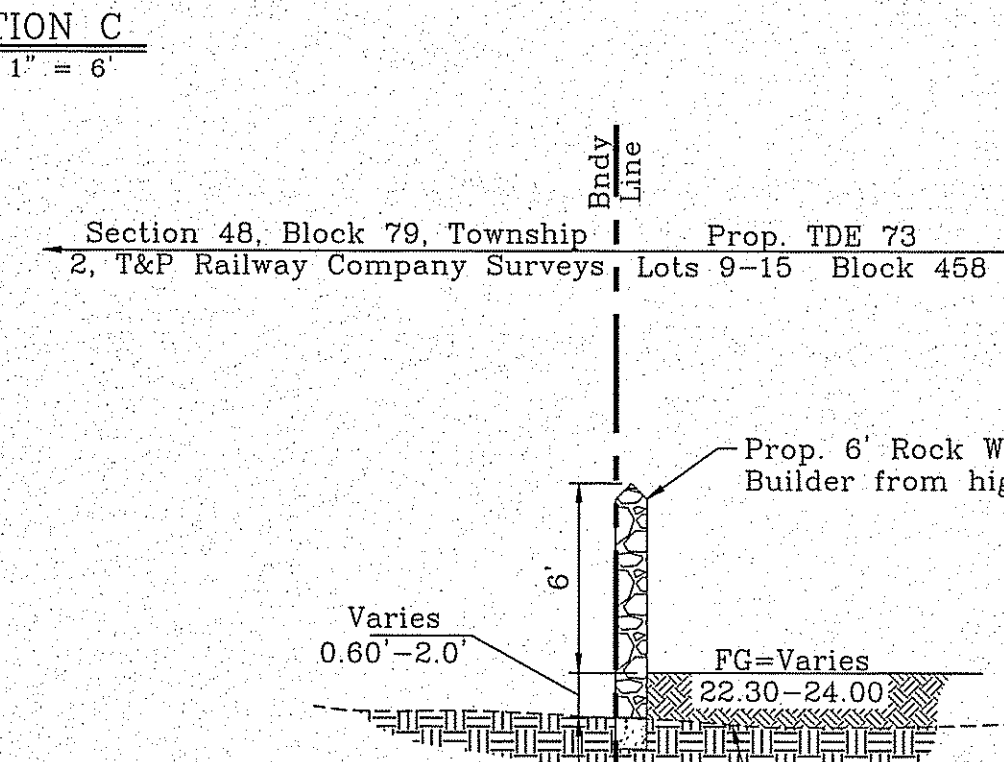
SECTION D
SCALE: 1" = 6'



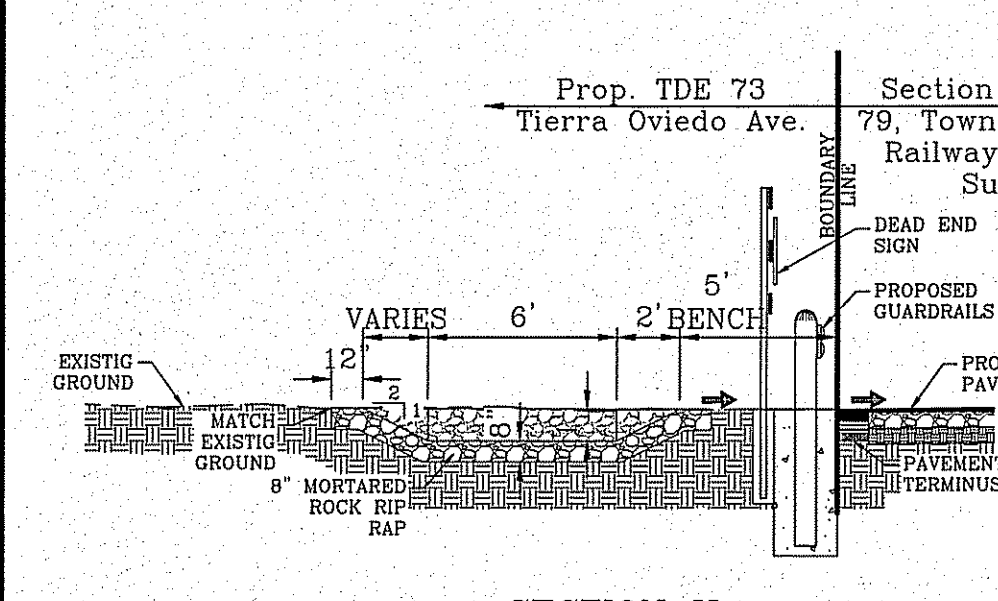
SECTION E
SCALE: 1" = 6'



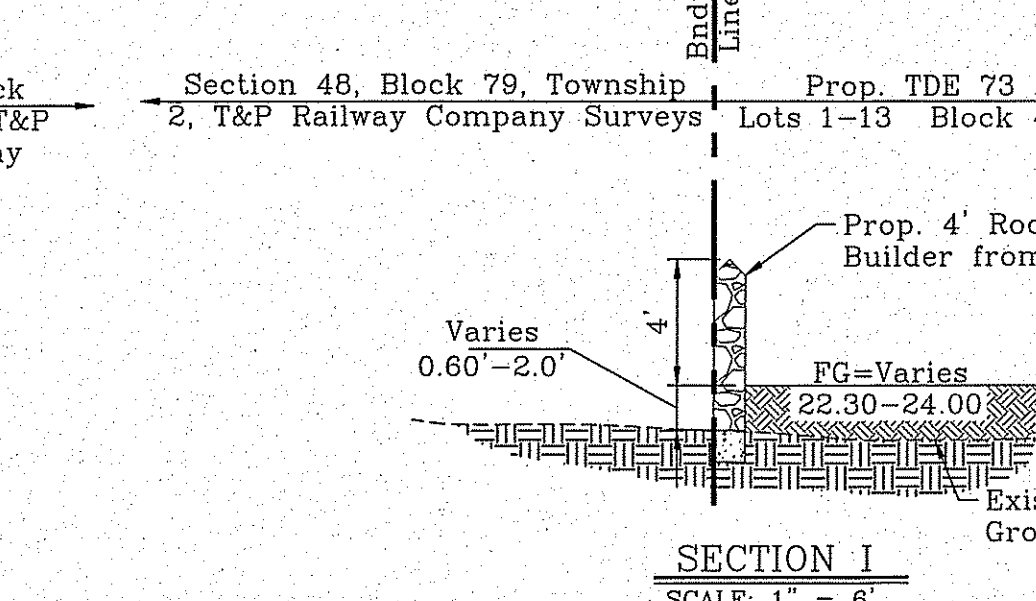
SECTION F
SCALE: 1" = 6'



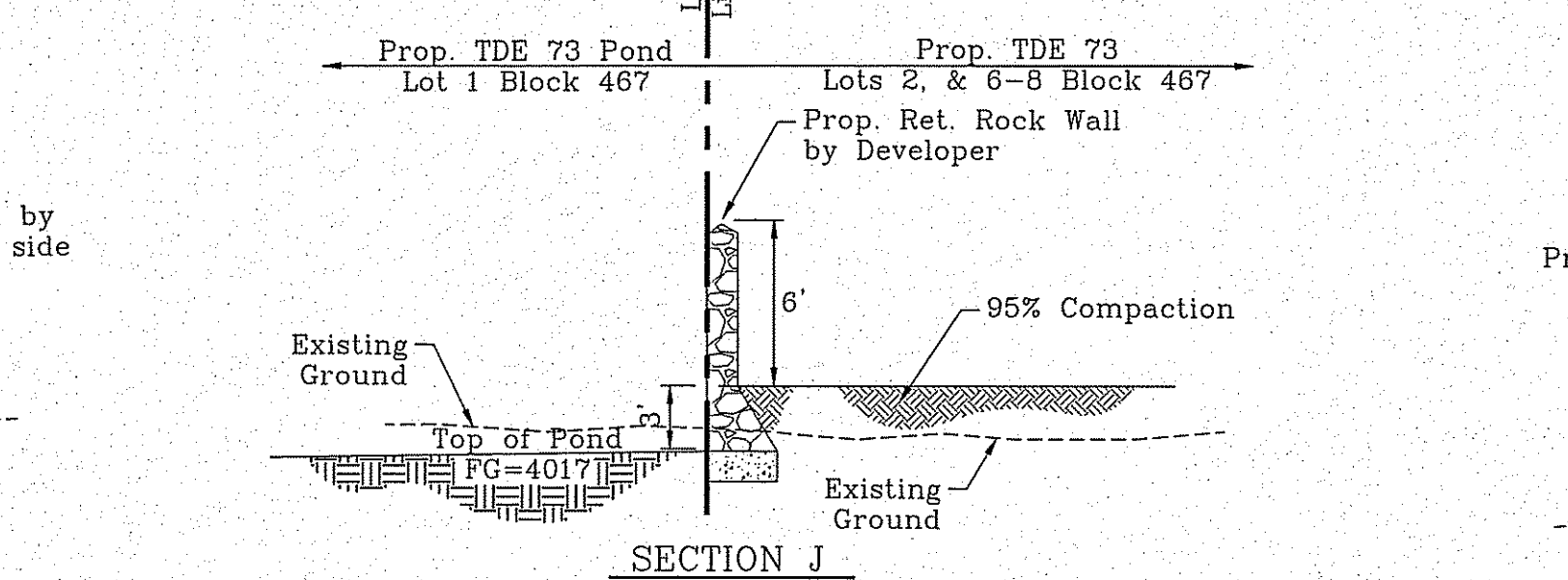
SECTION G
SCALE: 1" = 6'



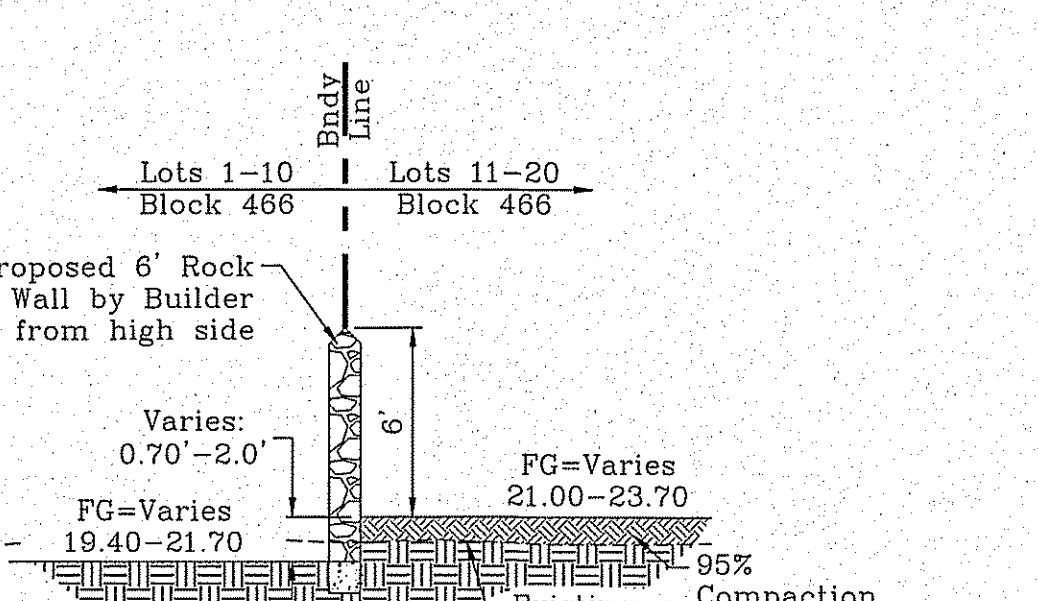
SECTION H
SCALE: 1" = 6'



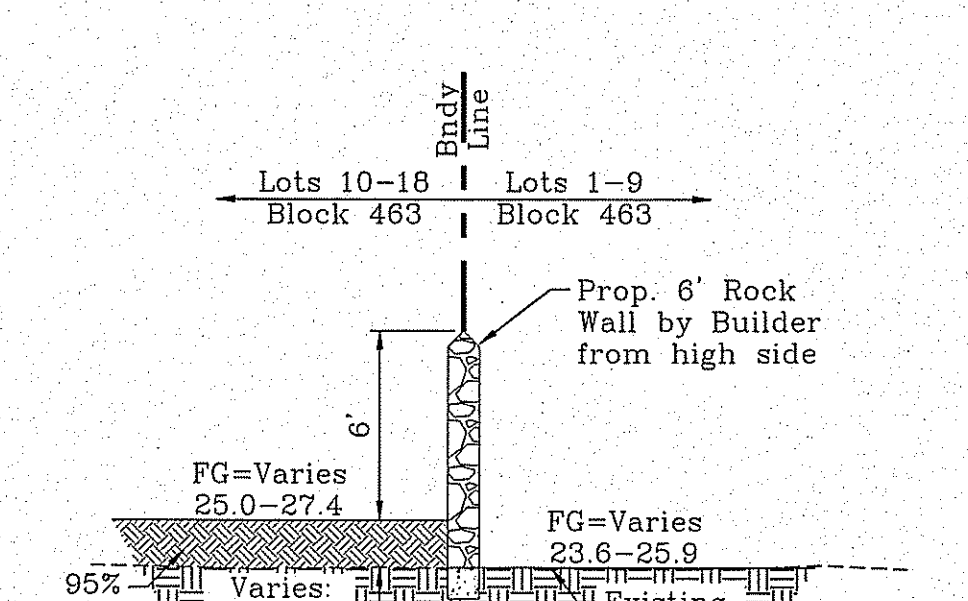
SECTION I
SCALE: 1" = 6'



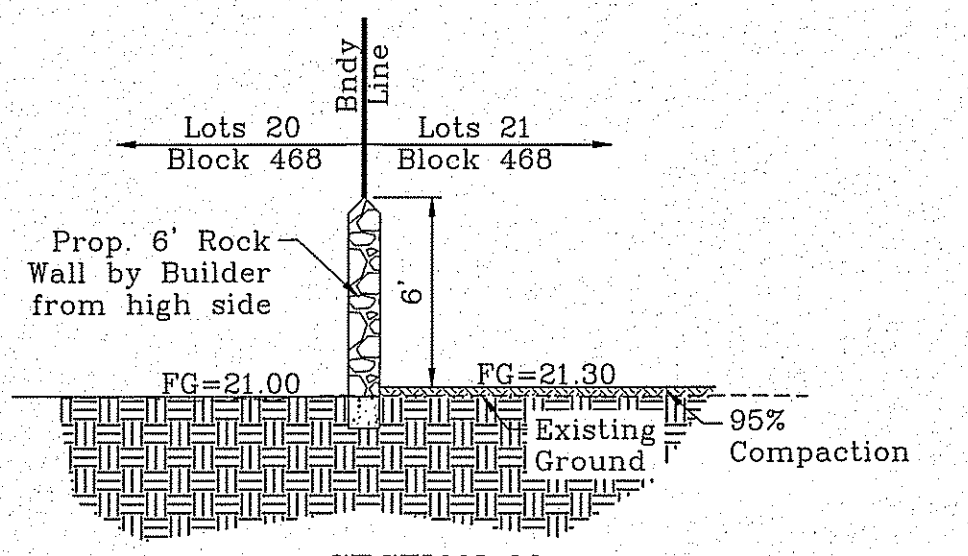
SECTION J
SCALE: 1" = 6'



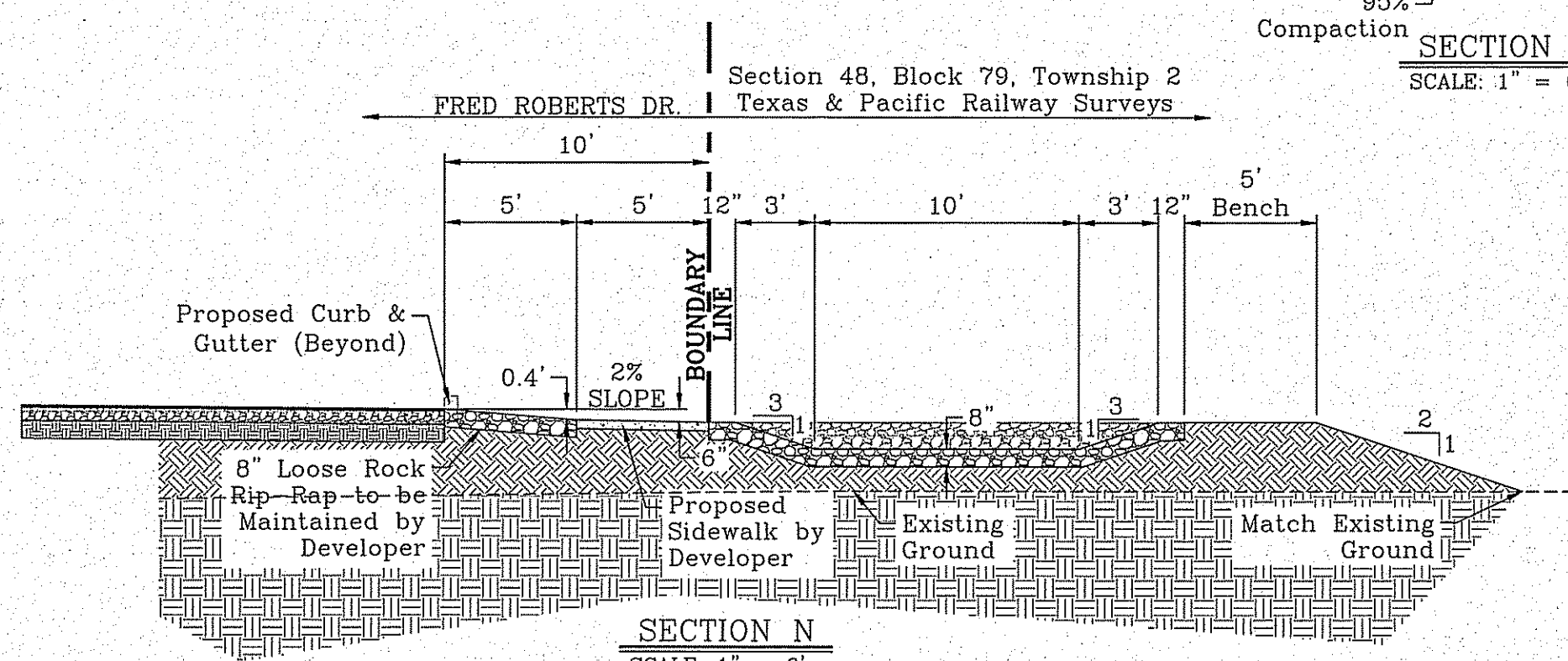
SECTION K
SCALE: 1" = 6'



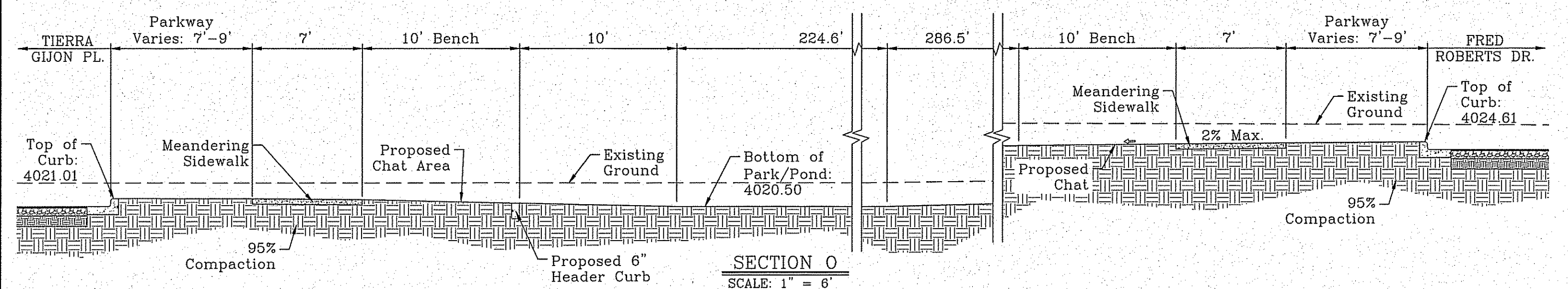
SECTION L
SCALE: 1" = 6'



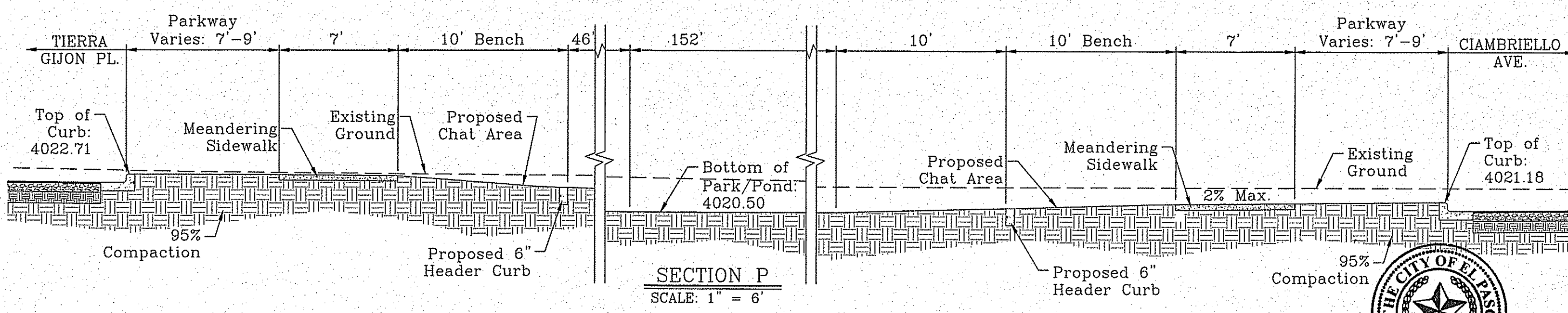
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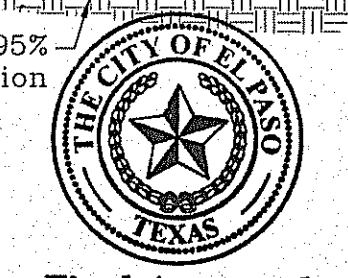
SECTION N
SCALE: 1" = 6'



SECTION O
SCALE: 1" = 6'



SECTION P
SCALE: 1" = 6'



Final Approval

TIERRA DEL ESTE UNIT SEVENTY THREE

BENCHMARK	CITY MONUMENT AT THE CENTERLINE INTERSECTION OF SADDLEHORN PL. AND HOLLY SPRINGS AVE. ELEVATION 4024.74
DATE	05/05/16
REVISIONS	CITY REDLINES AS PER 03/31/16 COMMENTS
BY	E.J.

PROJECT NAME
TIERRA DEL ESTE UNIT 73

BEING PORTION OF SECTION 48, BLOCK 79, TOWNSHIP 2, TEXAS AND PACIFIC RAILWAY COMPANY SURVEYS, CONTAINING: 52.766± ACRES

SCALE
HORIZ: 1" = 430'
VERT: 1" = 4'
DATE: OCT. 2014
DESIGN BY: Y.C.
INITIATED BY: R.R.
CHECKED BY: Y.C.
JOB NO.: 1013-23

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

REGISTRATION NO. F-2311
SHEET TITLE

GRADING SECTIONS
SHT 4 OF 39

LEGEND

- Q RUN-OFF QUANTITY (CUBIC Ft/Sec)
- A WATERSHED AREA (ACRES)
- ◆ HIGH POINT
- ◆ LOW POINT
- DRAINAGE FLOW
- - - PROPOSED DRAINAGE AREA

NOTE:

HEREON DESCRIBED TRACT LIES IN ZONE X, COMMUNITY PANEL NO. 480212 0175B, DATED SEPTEMBER 4, 1991.

SEE SHEETS 28-30 FOR DRAINAGE STRUCTURES

STRUCTURE #1 INLET DATA

INLET No.	INLET TYPE	No. GRATES	Q ₅₀ yr cfs	Q ₁₀₀ yr cfs	Q _c cfs
1-1	II	11	51.35	62.13	84.92
1-2	II	11	33.16	40.12	84.92
1-3	II	11	48.93	59.20	84.92
1-4	Offsite	6	45.52	55.07	72.76
2-1	II	11	40.41	48.49	84.92
2-2	II	11	34.94	42.27	84.92
2-3	III	2	1.46	1.97	15.44
2-4	III	3	1.46	1.97	23.16
3-1	Offsite	2	14.09	17.04	24.25

CLOGGING FACTOR = 2/3

DRAINAGE CALCULATION TABLE

DRAINAGE AREA	AREA (acres)	T _c (min)	C	I ₅₀ (in/hr)	Q ₅₀ (cfs)	I ₁₀₀ (in/hr)	Q ₁₀₀ (cfs)
I	14.53	28	0.60	3.05	26.59	3.69	32.17
II	10.17	28	0.60	3.05	18.61	3.69	22.52
III	14.34	28	0.60	3.05	26.24	3.69	31.75
IV	5.79	28	0.60	3.05	10.60	3.69	12.82
V	1.32	18	0.60	3.69	2.92	4.46	3.53
OFFSITE A	12.21	28	0.60	3.05	22.34	3.69	27.03
OFFSITE B	9.76	28	0.60	3.05	17.86	3.69	21.61
OFFSITE C	8.13	28	0.60	3.05	14.88	3.69	18.00
OFFSITE D	3.78	28	0.60	3.05	6.92	3.69	8.37
OFFSITE E	13.30	28	0.60	3.05	24.34	3.69	29.45
OFFSITE F	22.08	28	0.60	3.05	40.41	3.69	48.49
OFFSITE G	4.19	28	0.95	3.05	14.09	3.69	17.04
OFFSITE H	15.71	28	0.95	3.05	45.52	3.69	55.07
POND	3.57						SEE POND SHEET FOR DETAILS
PARK	3.40						SEE THIS SHEET FOR POND CALCS.

STREET CARRYING CAPACITY-FLAT SECTION/6" CURB-60 YR STORM

STREET NAME	Q ₅₀ CFS 60 Yr. Storm (max)	Q ₁₀₀ CFS	Velocity @ 61.94 CFS	Depth
TIERRA GIJON PL.	51.19	51.94	3.87 ft./s	.42' or 5"

ON SITE PARK PONDING CALCULATIONS

PARK-POND AREA	LOT NO.	BLOCK NO.	PARK AREA (AC)	REQUIRED CAPACITY (ac. ft.)	AVAILABLE CAPACITY (ac. ft.)	HIGH WATER SURFACE ELEV. (ft.)	FREE BOARD (ft.)
A	1	462	3.40	0.45	0.48	4020.97	0.03'

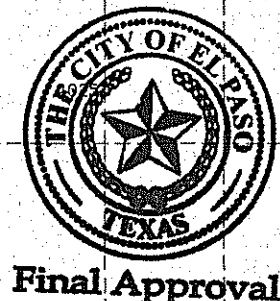
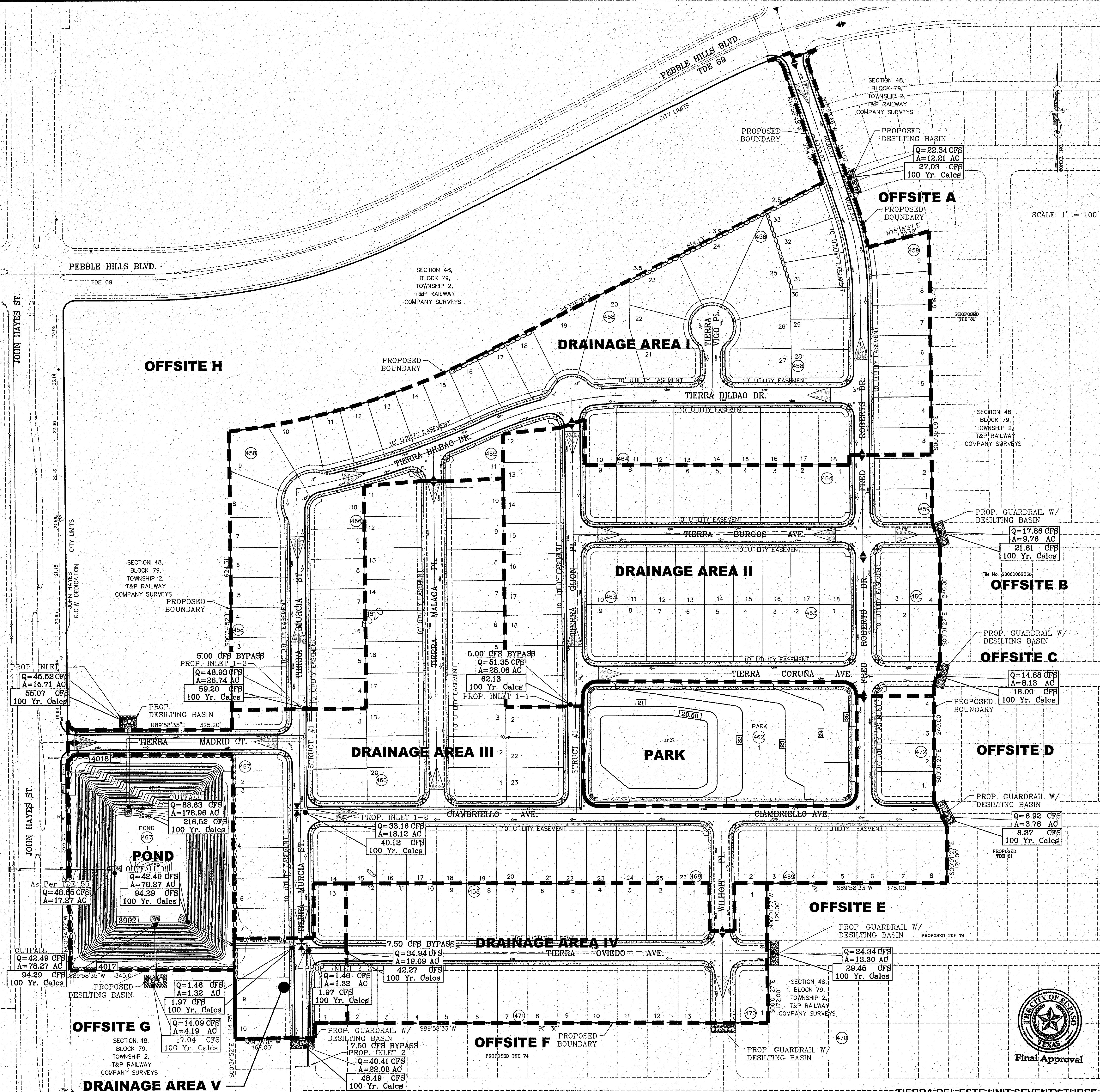
PARK-POND AREA - A

$$Q = \frac{ARC}{12} = \frac{3.40(4)(0.4)}{12} = 0.45$$

ELEVATION FT	AREA SQ-FT	CONIC VOL. AC-FT	VOLUME CAP. AC-FT
4020.50	32198	0.00	0.00
4021.00	52457	0.48	0.48

TOP SOIL SHALL COMPLY WITH CITY OF EL PASO PARKS & RECREATION DEPARTMENT PARK DESIGN GUIDELINES AND STANDARDS, SODDING SPECIFICATION 1.02C.

SEE LANDSCAPE AND IRRIGATION PLANS FOR DETAILS



BENCHMARK
CITY MONUMENT AT THE CENTERLINE INTERSECTION OF SADDLEHORN PL. AND HOLLY SPRINGS AVE. ELEVATION 4024.74
DATE 05/05/16
REVISIONS
BY E.J.

PROJECT NAME
TIERRA DEL ESTE UNIT 73
BEING PORTION OF SECTION 48, BLOCK 79, TOWNSHIP 2, TEXAS AND PACIFIC RAILWAY CO. SURVEYS, EL PASO COUNTY, TEXAS
CONTAINING: 52.766± ACRES

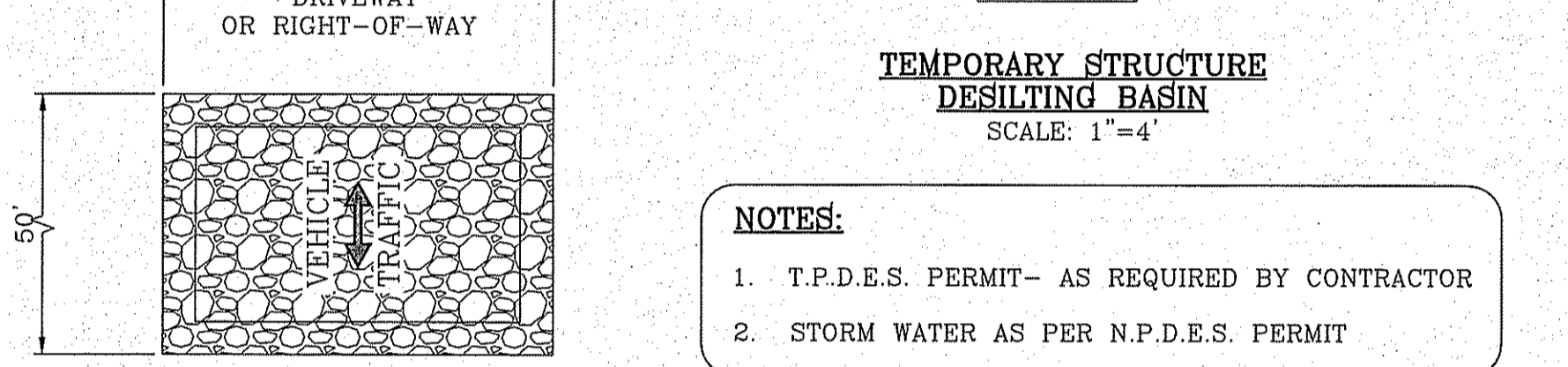
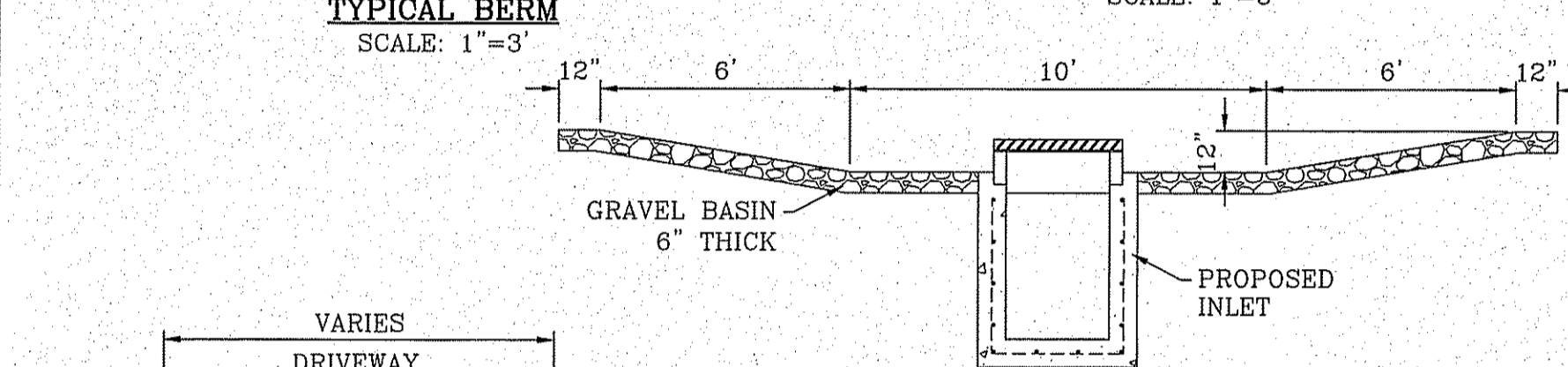
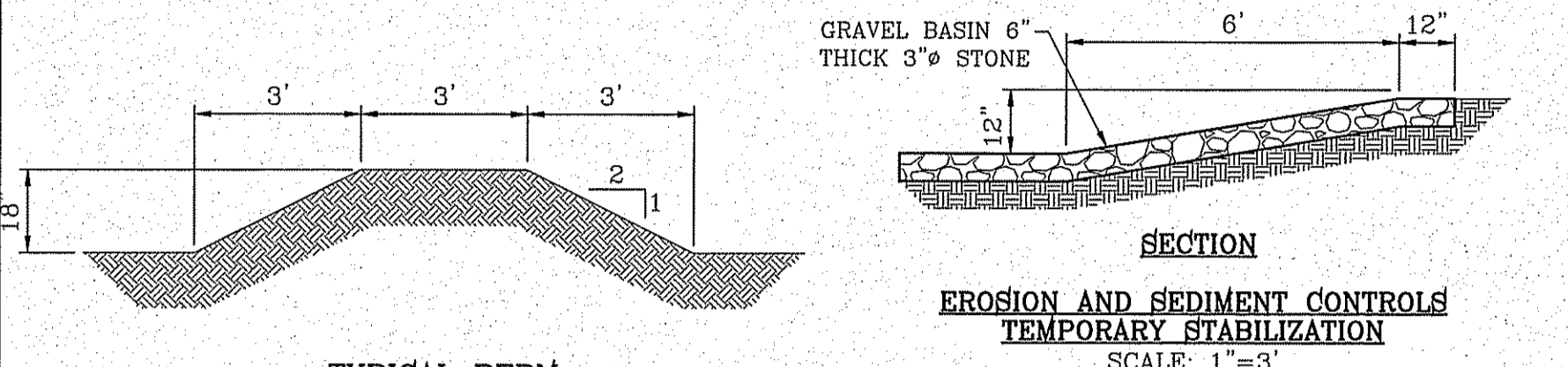
SCALE: 1" = 100'
ENGINEER'S SEAL
CONDE INC.
HORIZ. 1" = 300'
VERT. 1" = 10'
DATE: OCT. 2014
DESIGN BY: Y.C.
CHECKED BY: R.R.
INITIATED BY: Y.C.
JOB NO.: 1013-23

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

CONDE INC.
REGISTRATION NO. F-2921
SHEET TITLE
DRAINAGE PLAN

**STABILIZED ENTRANCE
EROSION CONTROL NOTES**

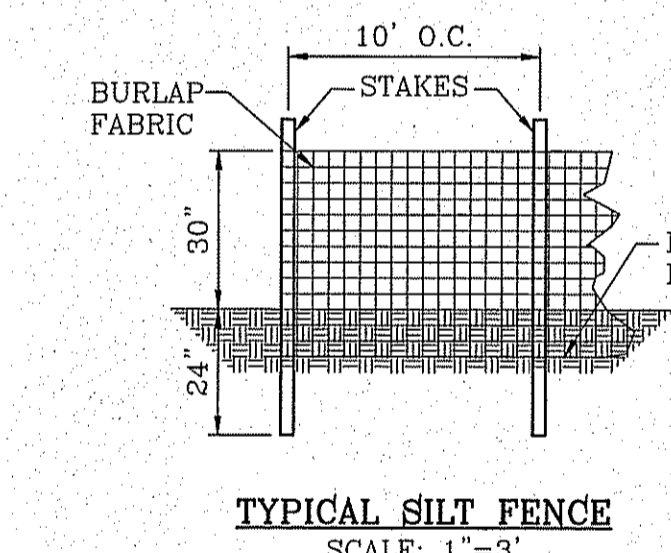
- SILT FENCING OR TEMPORARY BERMS SHALL BE INSTALLED AT TIME OF CONSTRUCTION.
- TEMPORARY SWALES AND DESILTING BASINS WILL BE PLACED WHERE NECESSARY IN ORDER TO CONVEY STORM WATER RUN-OFF.
- A STABILIZED CONSTRUCTION ENTRANCE WILL BE PROVIDED TO HELP REDUCE VEHICLE TRACKING OF SEDIMENTS THE PAVED STREET ADJACENT TO THE SITE ENTRANCE WILL BE SWEEPED WEEKLY TO REMOVE ANY EXCESS MUD, DIRT OR ROCK TRACKED FROM THE SITE.
- THE OWNER SHALL BE RESPONSIBLE FOR INSURING THAT ALL EROSION CONTROL METHODS ARE INSPECTED ON A MONTHLY BASIS OR AFTER EVERY ERODIBLE RAINFALL (1/2" OR MORE). ANY NECESSARY REPAIRS OR CLEANUP TO MAINTAIN THE EFFECTIVENESS OF THE EROSION CONTROL SHALL BE MADE AT THE TIME.
- A TEMPORARY BERM SHALL BE PROVIDED AT THE TOE OF SLOPE AND LOT LINE AT TIME OF GRADING PRIOR TO ROCKWALL CONSTRUCTION.
- SILT FENCE TO BE INSTALLED AND MAINTAINED ALONG THE PERIMETER OF THE PARK SITE UNTIL ALL ADJUTING RESIDENCES ARE DEVELOPED.



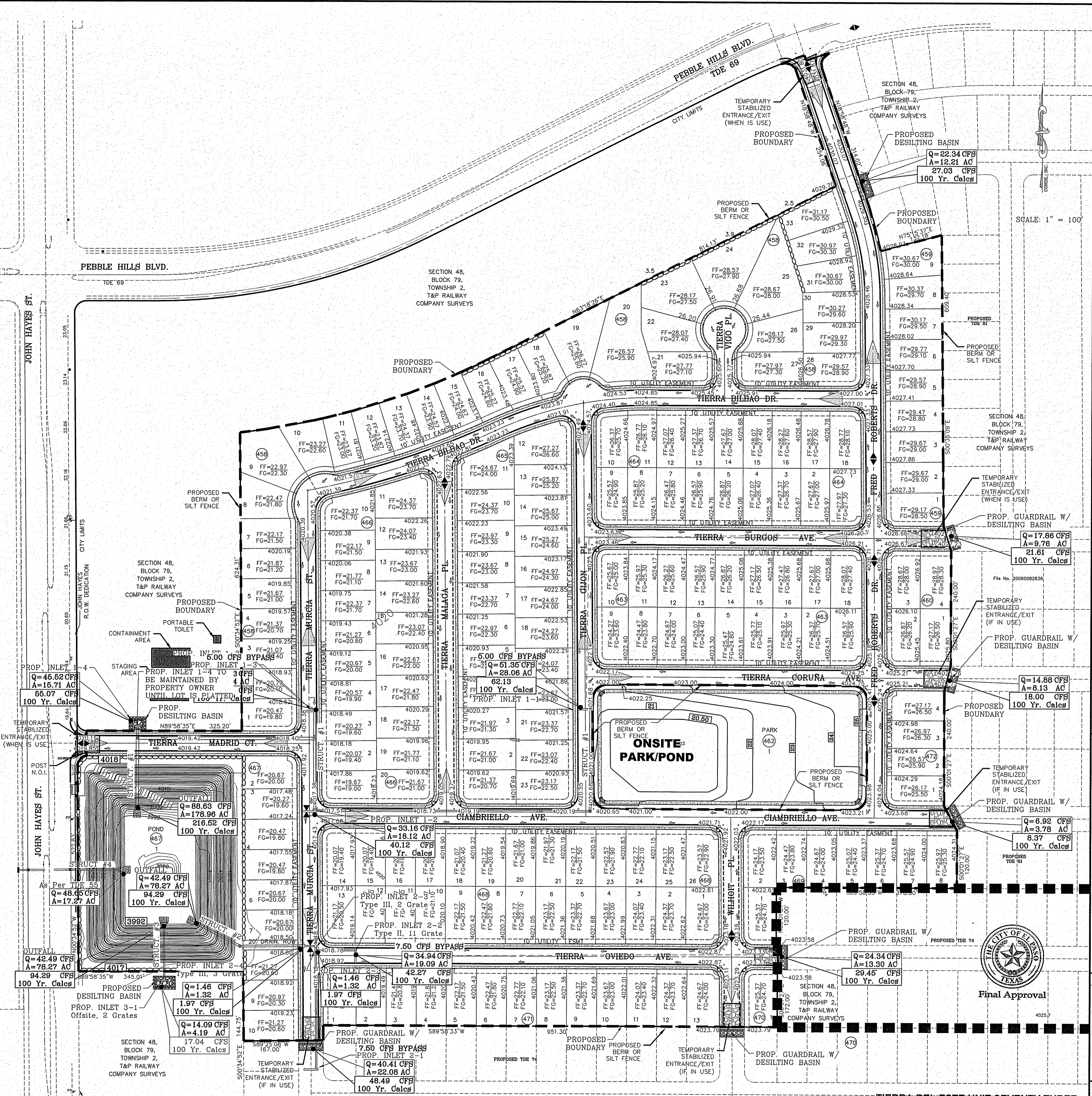
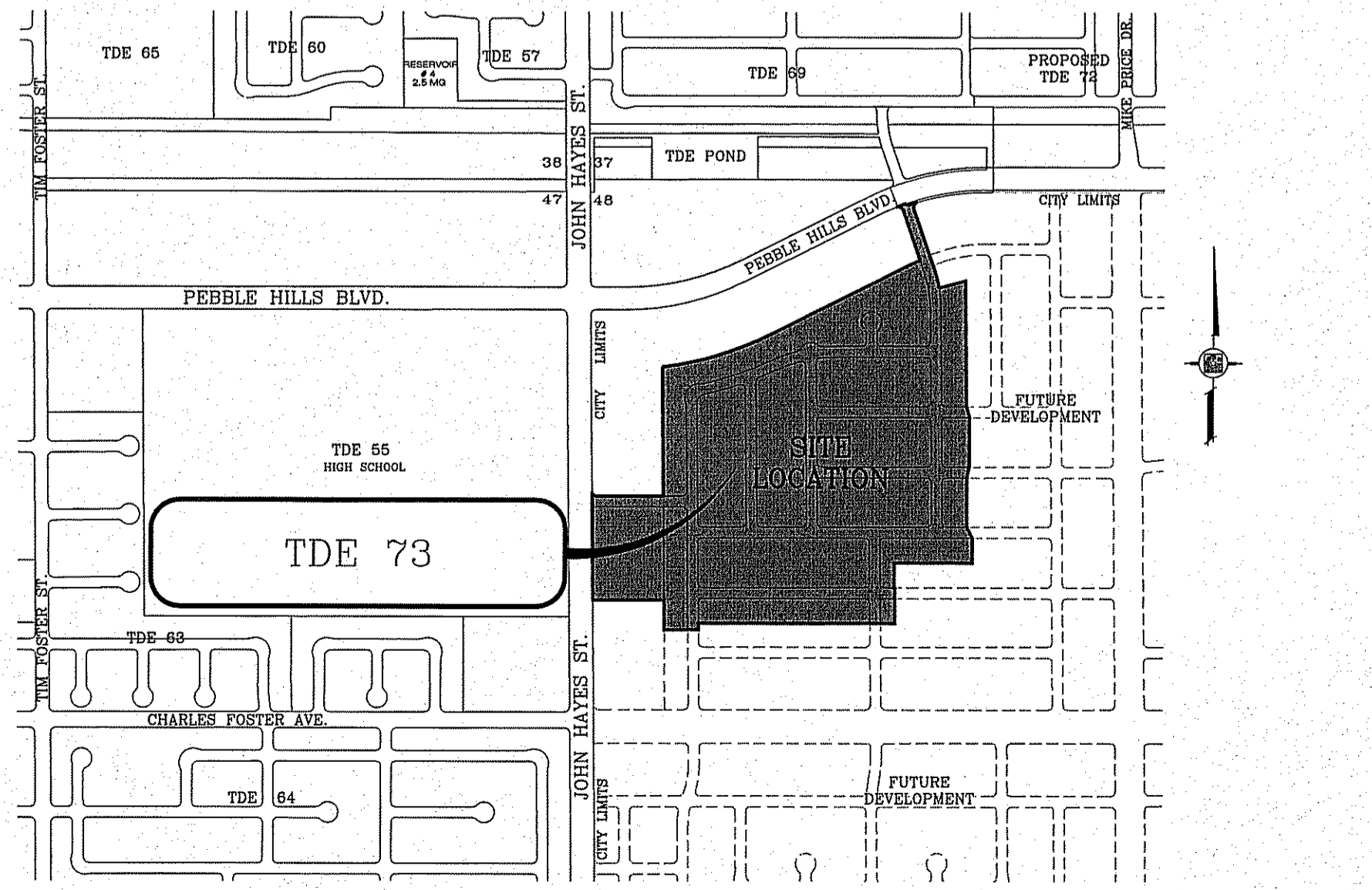
- NOTES:**
- T.P.D.E.S. PERMIT- AS REQUIRED BY CONTRACTOR
 - STORM WATER AS PER N.P.D.E.S. PERMIT

LEGEND

FF=####	PROPOSED FINISH GROUND AND FINISH FLOOR
FG=XX.XX	PROPOSED SPOT ELEVATION
00.00	HIGH POINT
▲	LOW POINT
—	EXISTING CONTOUR
- - -	EXISTING SPOT ELEVATION
- - -	PROPOSED CONTOUR
—	PROPOSED ROCK WALL
—	PROPOSED RETAINING WALL
—	PROPOSED SILT FENCE
Q	RUN-OFF QUANTITY (CUBIC FT/Sec)
A	WATERSHED AREA (ACRES)
→	DRAINAGE FLOW



LOCATION MAP SCALE: 1"=600'

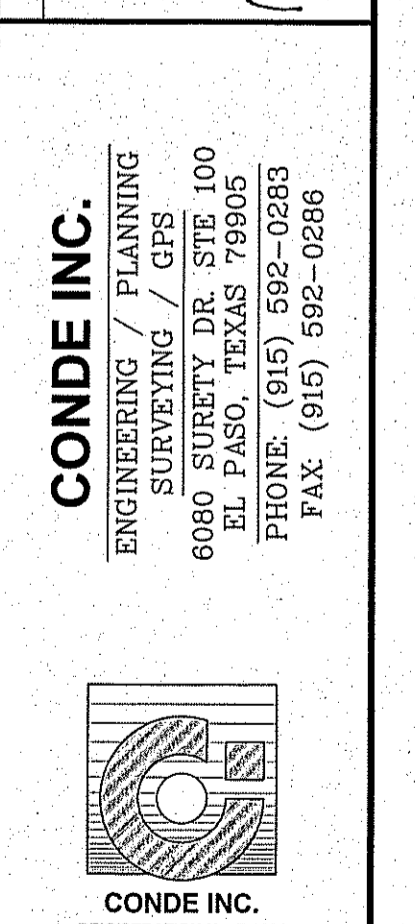


REVISIONS

DATE	BY	REVISIONS
05/05/16	E.J.	CITY REDLINES AS PER 03/31/16 COMMENTS

TERRA DEL ESTE UNIT 73
BEING PORTION OF SECTION 48, BLOCK 79, TOWNSHIP 2,
EL PASO COUNTY, TEXAS SURVEYED BY Y.C.
CONTAINING . 52.766± ACRES

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



SITE DESCRIPTION: PROJECT DESCRIPTION

1. NO ASPHALT BATCH PLANTS FOR THIS SITE.

BEST MANAGEMENT PRACTICES

- 1. STRUCTURAL CONTROL MEASURES SHALL BE MAINTAINED THROUGHOUT THE LIFE OF THE PROJECT IN EFFECTIVE OPERATING CONDITION.
2. DOCUMENTATION OF MAINTENANCE ACTIVITIES INCLUDING FREQUENCY, LOT DESIGNATION, INSPECTION OF STRUCTURAL CONTROLS, MATERIAL STORAGE AREAS, VEHICLES ENTRANCE AND EXITS, ACTIONS TAKEN AND INSPECTORS NAME.
3. CONSTRUCTION SITE NOTICE WILL BE MAINTAINED ON SITE.
4. COPY OF SWPPP SHALL BE KEPT ON SITE.
5. PERMITTEE MUST RETAIN THE SWP3, NOI AND INSPECTION LOG FOR A MINIMUM OF THREE YEARS FROM TERMINATION AND FINAL STABILIZATION OF PROJECT.

I. WASTE MATERIALS

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

II. HAZARDOUS WASTE

AT A MINIMUM, ANY PRODUCTS IN THE FOLLOWING CATEGORIES SHALL BE CONSIDERED HAZARDOUS: PAINT, ACIDS FOR CLEANING MASONRY SURFACES, CLEANING SOLVENTS, ASPHALT PRODUCTS, CHEMICAL ADDITIVES FOR SPILL STABILIZATIONS, 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 NMED.

III. SANITARY WASTE

ALL SANITARY WASTE SHALL BE COLLECTED FROM THE CONSTRUCTION PORTABLE UNITS AS NECESSARY 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.

A. 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 OF THE CONTAINER.
F. FOLLOW MANUFACTURER'S RECOMMENDATIONS FOR PROPER USE AND DISPOSAL.

B. 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 AND STATE RECOMMENDED METHODS

C. PETROLEUM PRODUCTS:

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.

V. 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

VI. MAINTENANCE AND INSPECTION PROCEDURES

ALL POLLUTION PREVENTION MEASURES SHALL BE INSPECTED AT LEAST ONCE EVERY 14 DAYS AND FOLLOWING A STORM EVENT OF 0.5 INCHES OR MORE. BEST MANAGEMENT PRACTICES AND POLLUTION CONTROL PROCEDURES SHALL BE INSPECTED FOR ADEQUACY. A RECORD OF THE RESULTS OF THE INSPECTIONS OF THE SITE SHALL BE KEPT ON SITE.

VII. 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. CONSTRUCTION STAGING AREAS AND VEHICLE MAINTENANCE AREAS SHALL BE CONSTRUCTED BY THE CONTRACTOR IN A MANNER TO MINIMIZE THE RUNOFF OF POLLUTANTS.

CONSTRUCTION ACTIVITIES LOG table with columns: ACTIVITIES, DATE, SIGNATURE

INSPECTION AND MAINTENANCE REPORT

I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHERED AND EVALUATED THE INFORMATION SUBMITTED. BASED ON 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 KNOWN VIOLATIONS.

SIGNED: _____ DATE: _____

SWPPP COORDINATOR NAME: _____ PHONE NUMBER: _____

LOG OF ACTIVITIES AVAILABLE: SWPPP COORDINATOR. INSPECTION LOG AVAILABLE: SWPPP COORDINATOR. SCHEDULE OF ACTIVITIES AVAILABLE: SWPPP COORDINATOR

SITE DESCRIPTION: PROJECT DESCRIPTION THE EXISTING SITE IS UNDEVELOPED DESERT. THERE ARE NO SURFACE WATERS ON THE SITE ITSELF OR ADJACENT TO THE SITE. THE SITE DISTURBANCE AREA IS 52.766 ACRES.

THE SITE MAP SHOWS THE PROPERTY BOUNDARIES WITH THE PROPOSED LOCATION OF THE ROADWAYS, LOTS, STORM INLETS AND RETENTION BASINS. THIS SITE WILL BE GRADED, ROADWAYS PAVED AND DRAINAGE STRUCTURES CONSTRUCTED. THE GRADED LOTS WILL DRAIN TO THE GRADED STREETS AND THEN TO THE STORM INLETS WHICH WILL CONDUCT THE STORM RUNOFF VIA UNDERGROUND STRUCTURES TO A RETENTION BASIN.

INTERIM STABILIZATION MEASURES ARE AS FOLLOWS: PERIMETER TEMPORARY EARTHEN BERMS, TEMPORARY STABILIZED CONSTRUCTION SITE EXIT, TEMPORARY DESILTING BASINS

FINAL STABILIZATION WILL BE PERFORMED BY THE HOME BUILDERS WHICH WILL CONSTRUCT A SINGLE BUILDING ON EACH LOT AND PLACE LANDSCAPING ON EXPOSED SURFACES.

THE RECEIVING WATERS ARE PONDING AREA AT LOT 3B BLOCK 441

STORM WATER SAMPLING DATA IS NOT AVAILABLE FOR THIS SITE.

NO CONCRETE OR BATCH PLANTS ON THIS SITE.

NO APPARENT ENDANGERED SPECIES ON SITE. NO HISTORIC PROPERTIES ON SITE.

STORM WATER CONTAMINANTS ON SITE

THE FOLLOWING ARE THE POTENTIAL STORM WATER POLLUTANTS (CHECKED ITEMS ONLY):

- CLEANING SOLVENTS _____ EQUIP. CLEANING WASTEWATER _____
ASPHALT _____ HYDRAULIC OIL/FLUIDS _____
CONCRETE _____ GASOLINE _____
PAINTS _____ DIESEL FUEL _____
CURING COMPOUNDS _____ ANTIFREEZE/COOLANT _____

THE CONTAINMENT AREA FOR THESE ITEMS IS LOCATED: AS SHOWN ON PLAN

THE STAGING AREA FOR THIS SITE IS LOCATED: AS SHOWN ON PLAN

THE PORTABLE TOILET FOR THIS SITE IS LOCATED: AS SHOWN ON PLAN

- NON STORM WATER DISCHARGES ON SITE (CHECKED ITEMS ONLY).
FIRE HYDRANT FLUSHING _____ WATER LINE FLUSHING WATER _____
VEHICLE WASH WATER _____ LANDSCAPE IRRIGATION _____
DUST CONTROL WATER _____ PAVEMENT WASH WATERS _____

ALL STAGING AREAS, PORTABLE TOILETS AND POLLUTANT AREAS WILL INCORPORATE SECONDARY CONTAINMENT MEASURES SUCH AS BERMS OR SEDIMENT TRAPS/BARRIERS.

GRADING STABILIZATION ACTIVITY PLAN

GRADING STABILIZATION PLAN

- 1. SEDIMENT CAUSED BY EXCESSIVE EROSION SHALL BE REMOVED FROM RUNOFF WATER BEFORE LEAVING THE SITE
2. PROJECT AREAS PHYSICALLY DISTURBED DURING DEVELOPMENT SHALL BE EXPOSED TO EROSION PRODUCING INFLUENCES FOR THE SHORTEST PERIOD OF TIME.
3. AFTER COMPLETION OF THE SITE GRADING THE PROJECT AREAS SHALL BE WATERED AS REQUIRED TO CONTROL WIND EROSION.
4. SITE MONITORING SHALL BE PERFORMED BY THE PERMITTEE RESPONSIBLE FOR THE GRADING. ALL STABILIZATION MEASURES SHALL BE CHECKED ON A MONTHLY BASIS AND SHALL CONTINUE TO BE MAINTAINED
5. A MONITORING AND INSPECTION PROGRAM SHALL BE IMPLEMENTED UNTIL A STABILIZED SITE IS ACHIEVED OF BUILDING RESUMES. INACTIVE/IDLE SITES SHALL BE INSPECTED AND MAINTAINED ON ONE OF THE FOLLOWING SCHEDULES: A. AT LEAST ONCE EVERY 14 CALENDAR DAYS AND WITHIN 24 HOURS OF A WIND EVENT B. AT LEAST ONCE EVERY 7 CALENDAR DAYS ON A SET SPECIFIC DAY
6. AFTER PERMITTEE COMPLETES THE GRADING THE PERMIT SHALL BE CLOSED. AS PART OF THE CLOSEOUT PROCEDURES, THE APPLICANT MUST SUBMIT THE FOLLOWING:
a. A STATEMENT FROM THE ENGINEER OF RECORD THAT STATES "THE GRADING OPERATION HAS BEEN SUBSTANTIALLY COMPLETED AND GENERALLY CONFORMS TO THE APPROVED SET OF PLANS".
THE PERMITTEE SHALL CALL THE PERMIT OFFICIAL TO ESTABLISH THE BEGINNING OF THE WARRANTY PERIOD AND NOTIFY THE PERMIT OFFICIAL GSP HAS BEEN IMPLEMENTED.
b. SHALL SUBMIT A COPY OF THE NOTICE OF TERMINATION FILED WITH THE STATE.

STORM WATER POLLUTION PREVENTION PLAN

GENERAL CONTRACTOR CERTIFICATION

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

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

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 SUBMITTED. BASED ON 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) _____
PHONE NUMBER: _____

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

- ESTIMATED BEGINNING CONSTRUCTION DATE: _____
1. BEGIN CONSTRUCTION/MOBILIZATION (5 DAYS)
2. INSTALL INITIAL STORMWATER POLLUTION PREVENTIONS (SWPP) MEASURES AS INDICATED ON SWPP PLAN (_____ DAYS)
3. CLEAR AND GRUB
4. SITE GRADING
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
7. CONSTRUCTION OF SITE IMPROVEMENTS AND STORM SEWER
8. END CONSTRUCTION - FINAL STABILIZATION, DEMOBILIZATION, REMOVAL OF SWPPP CONTROLS, AND SUBMIT NOTICE OF TERMINATION.
ESTIMATED CONSTRUCTION COMPLETION DATE: _____

GRADING STABILIZATION MAINTENANCE AND SCHEDULE PLAN table with columns: STABILIZATION MEASURES, INSPECTION DATE, MAINT. DATE, MAINTAINANCE TYPE

PERMITTEE CERTIFICATION

I CERTIFY AND AGREE TO WARRANT AND MAINTAIN THE SITE AS DESCRIBED IN THIS GSP UNTIL BUILDING PERMIT IS ISSUED OR THE CITY CLOSES THE PERMIT AS SPECIFIED IN MUNICIPAL CODE SECTION 18.44.090.

PERMITTEE: (SIGNED) _____ DATE: _____
OWNER: (NAME) _____
PHONE NUMBER: _____
Final Approval

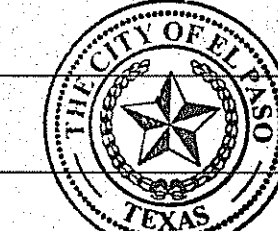


Table with columns: BENCHMARK, CITY MONUMENT AT THE CENTERLINE INTERSECTION OF SADDLEHORN PL. AND HOLLY SPRINGS AVE., ELEVATION 4024.74, REVISIONS, DATE, CITY REDLINES AS PER 03/31/16 COMMENTS, BY, E.J.

PROJECT NAME: TIERRA DEL ESTE UNIT 73
BEING PORTION OF SECTION 48, BLOCK 79, TOWNSHIP 2, TEXAS AND PACIFIC RAILWAY CO. SURVEYS, CONTAINING: .62-766± ACRES

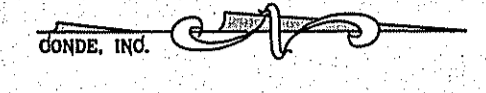
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DATE: OCT. 2014
DESIGN BY: Y.C.
INITIATED BY: R.R.
CHECKED BY: Y.C.
JOB NO.: 1013-23

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

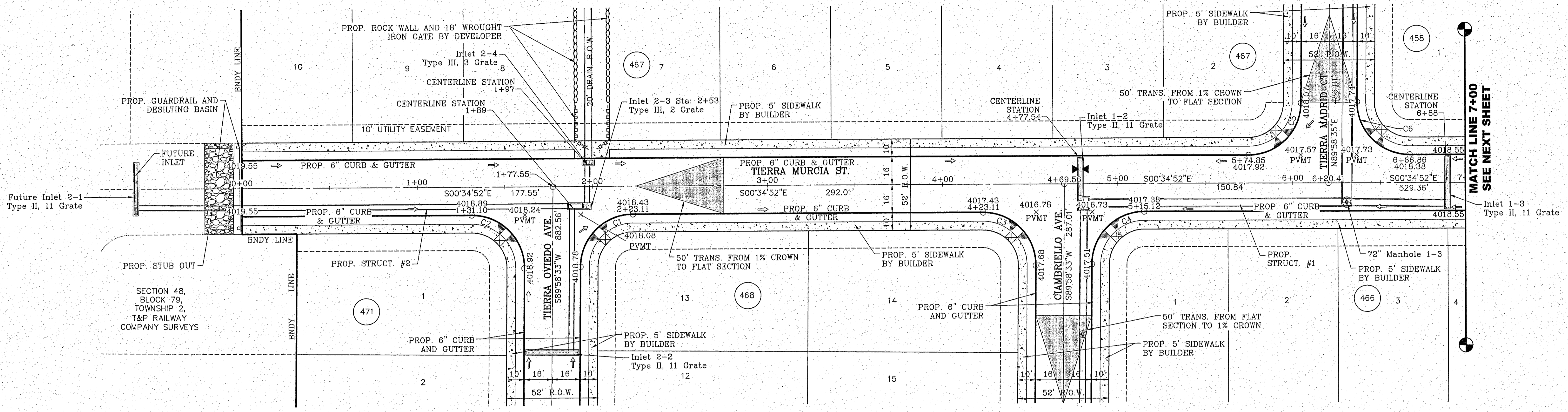
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FILE LOCATION S:\Subdivisions\DE 73\DWG\PP-MURCIA PLOTTED ON Tuesday, October 11, 2016 4:48:15 PM BY ESTEBAN JUAREZ

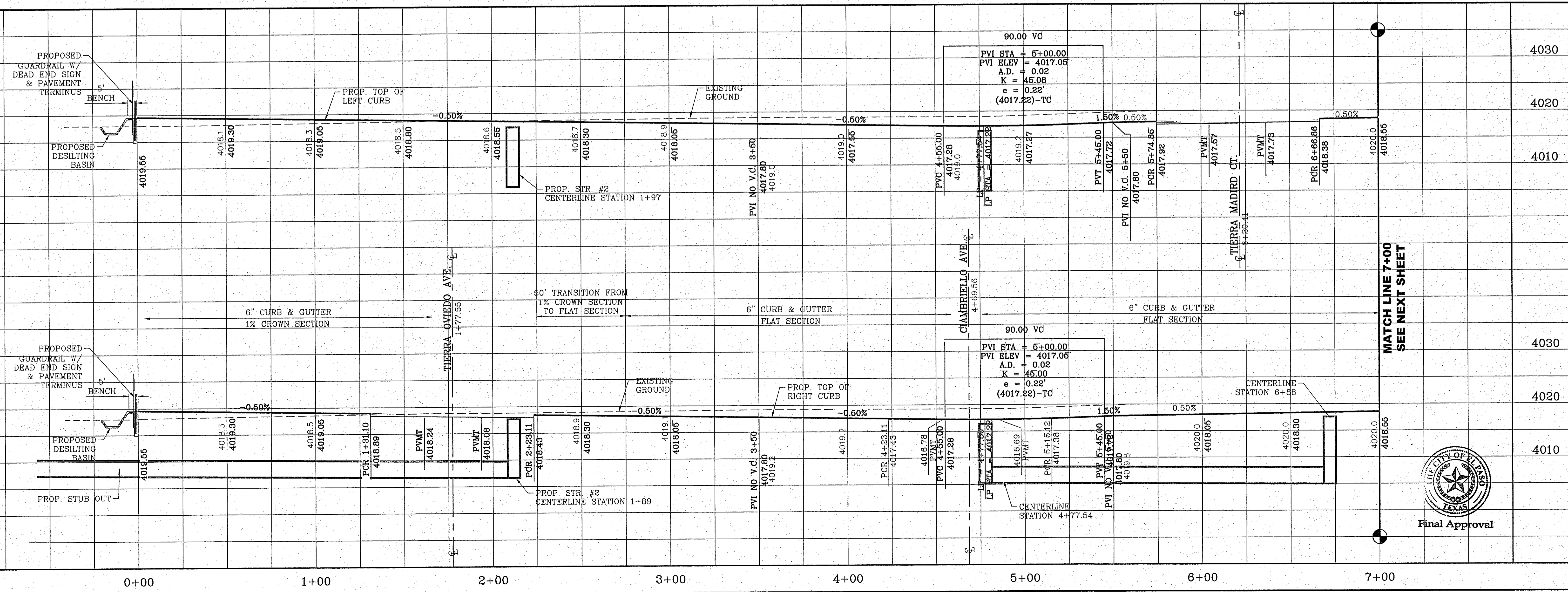
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C2	30.00'	47.42'	30.29'	42.63'	S44°41'50"W	90°33'25"
C3	30.00'	47.42'	30.29'	42.63'	S44°41'50"W	90°33'25"
C4	30.00'	46.83'	29.71'	42.22'	S45°18'10"E	89°26'35"
C5	30.00'	46.83'	29.71'	42.22'	N45°18'09"W	89°26'33"
C6	30.00'	47.42'	30.29'	42.63'	N44°41'51"E	90°33'27"



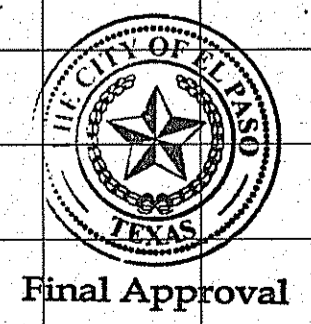
SCALE: 1" = 30'



MATCH LINE 7+00
SEE NEXT SHEET



MATCH LINE 7+00
SEE NEXT SHEET



Final Approval

DATE	REVISIONS	BY
05/05/16	CITY REDLINES AS PER 03/31/16 COMMENTS	E.J.

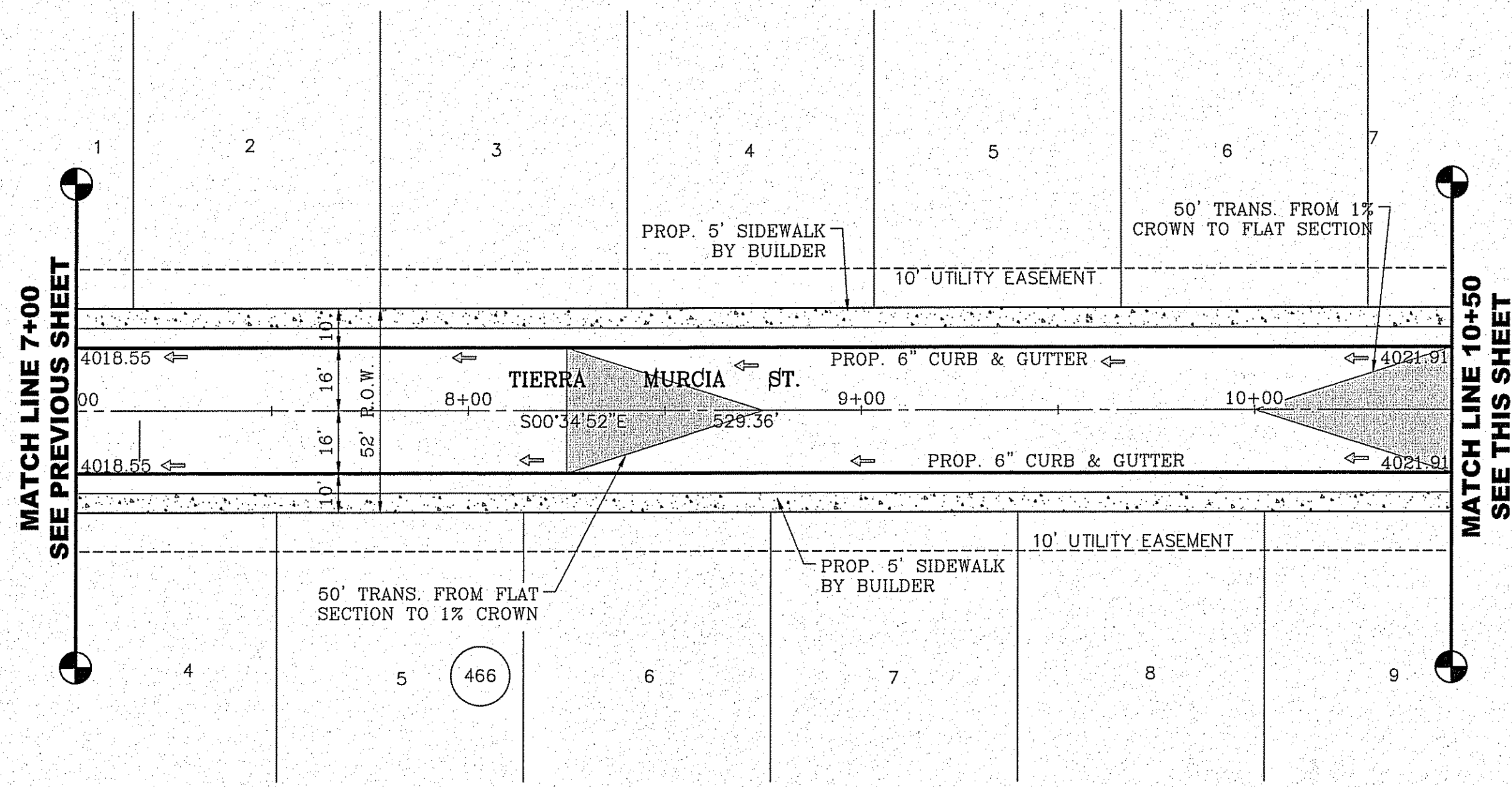
PROJECT NAME
TIERRA DEL ESTE UNIT 73
BEING PORTION OF SECTION 48, BLOCK 79, TOWNSHIP 2,
TEXAS AND PART OF PASADENA COUNTY, TEXAS
CONTAINING: 52.766± ACRES

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

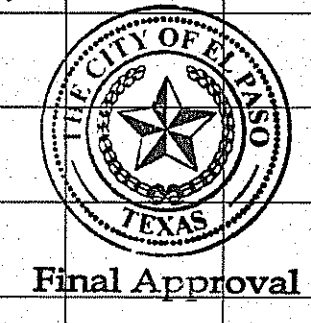
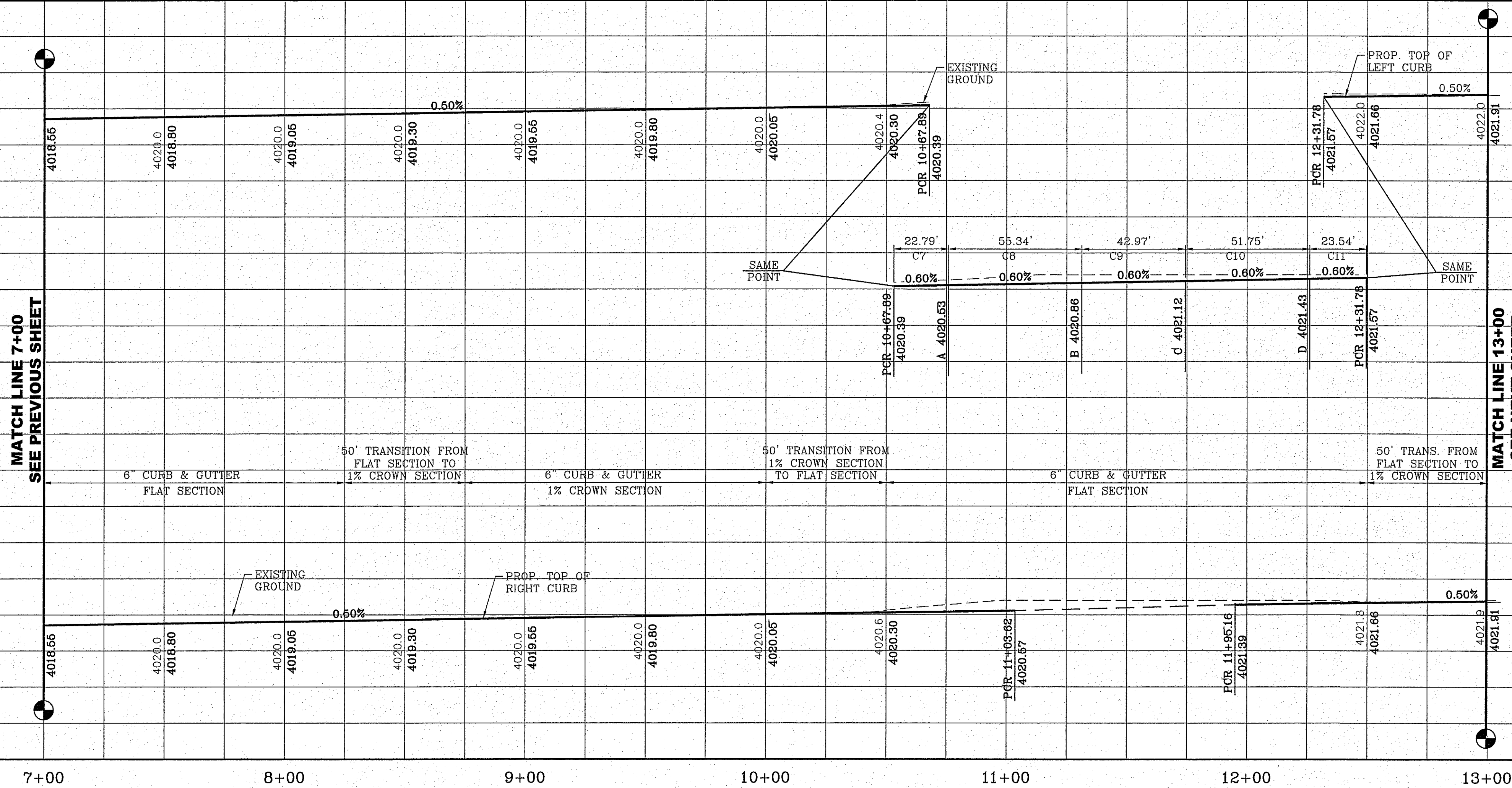
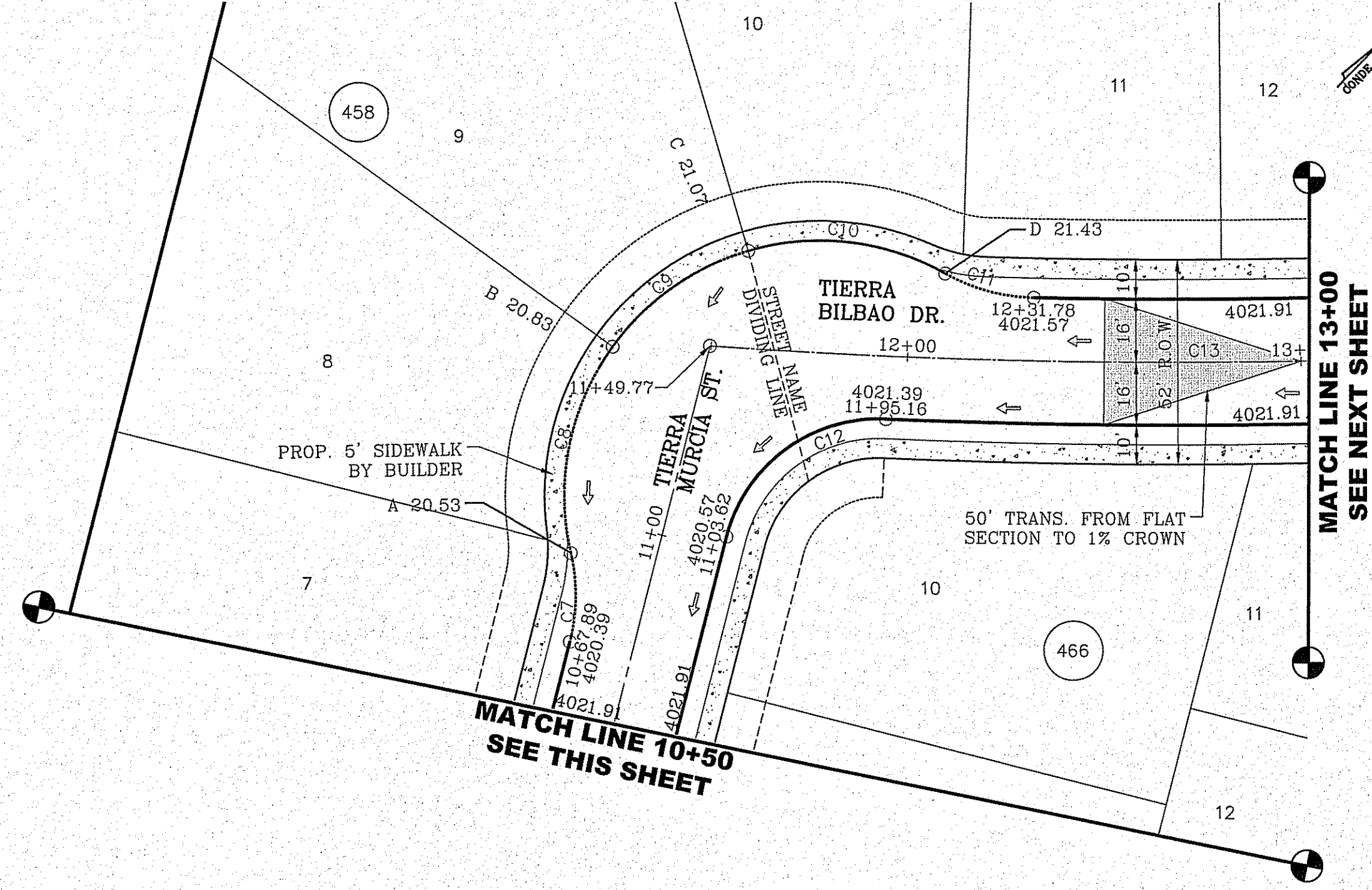
SCALES
HORIZ: 1" = 40.00'
VERT: 1" = 10'
DATE: OCT. 2014
DESIGN BY: Y.C.
INITIATED BY: E.R.
CHECKED BY: Y.C.
JOB NO.: 1013-23

SHEET TITLE
STREET
PLAN - PROFILE
TIERRA MURCIA ST.
STA: 0+00 TO
STA: 7+00
SHT 8 OF 39

FILE LOCATION S:\Subdivisions\TDE 73 DWG\PP-MURCIA PLOTTED ON Tuesday, October 11, 2016 4:46:26 PM BY ESTEBAN JUAREZ



CURVE TABLE						
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C7	48.00'	22.79'	11.61'	22.58'	N14°11'00"W	27°12'16"
C8	65.00'	49.17'	25.83'	48.00'	S6°06'55"E	43°20'27"
C9	65.00'	41.19'	21.31'	40.50'	S33°42'31"W	36°18'24"
C10	65.00'	59.70'	32.14'	57.63'	S78°10'31"W	52°37'37"
C11	48.00'	23.54'	12.01'	23.31'	S89°33'48"E	28°06'16"
C12	40.00'	54.60'	32.51'	50.46'	S38°31'28"W	78°12'41"
C13	1684.00'	297.95'	149.37'	297.56'	N74°06'22"E	10°08'15"



BENCHMARK	CITY MONUMENT AT THE CENTERLINE INTERSECTION OF SADDLEHORN PL. AND HOLLY SPRINGS AVE. ELEVATION 4024.74
DATE	05/05/16
REVISIONS	CITY REDLINES AS PER 03/31/16 COMMENTS
BY	E.J.

PROJECT NAME
TIERRA DEL ESTE UNIT 73
 BEING PORTION OF SECTION 48, BLOCK 79, TOWNSHIP 2, TEXAS AND PACIFIC RAILWAY CO. SURVEYS, CONTAINING .52.766± ACRES

SCALE
 HORIZ: 1" = 400'
 VERT: 1" = 10'
 DATE: OCT. 2014
 DESIGN BY: Y.C.
 INITIATED BY: R.R.
 CHECKED BY: Y.C.
 JOB NO.: 1013-23

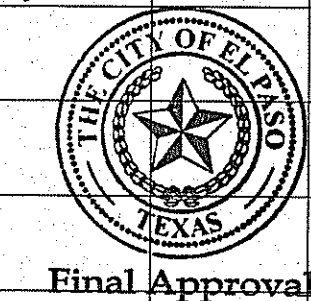
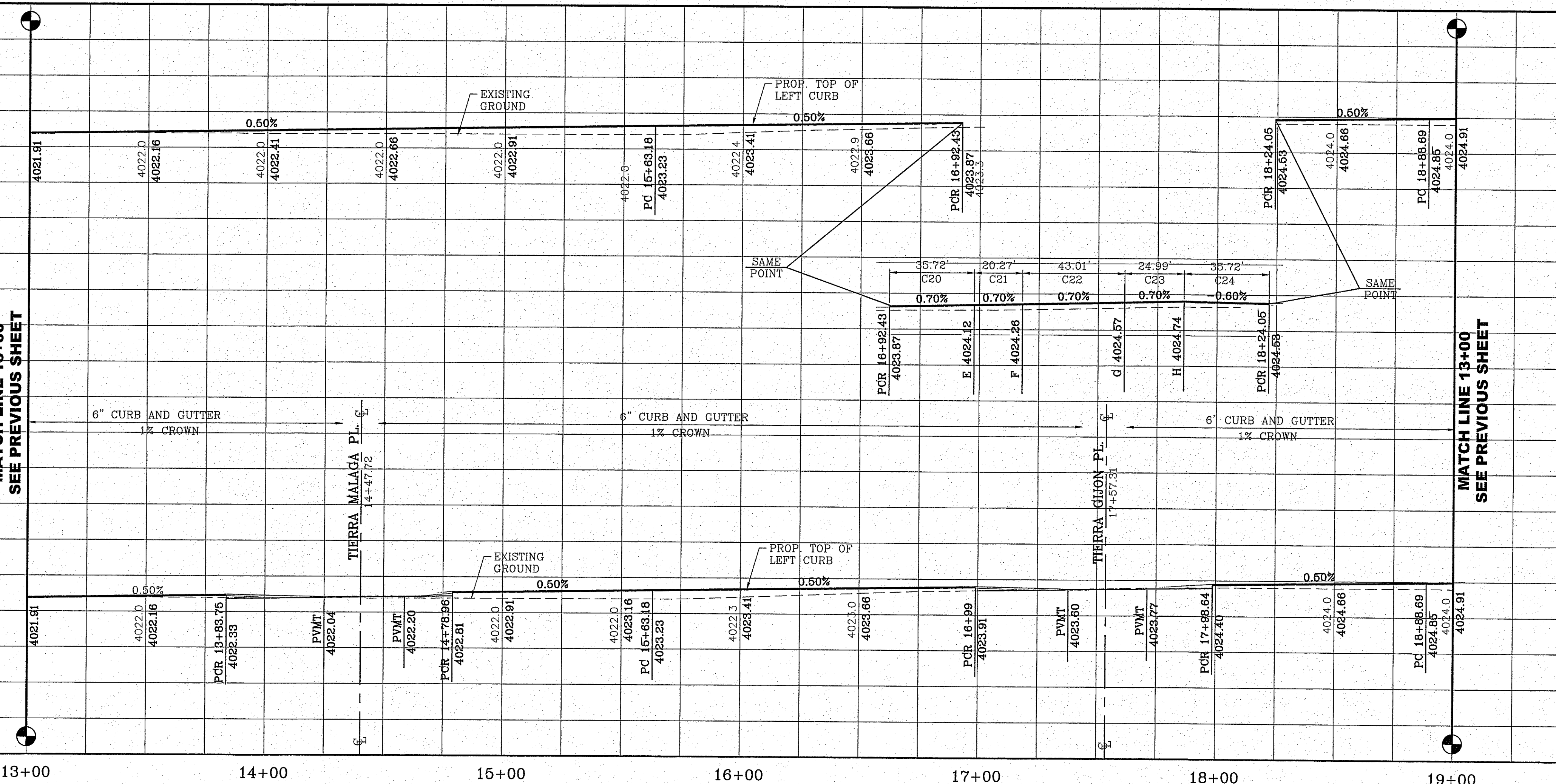
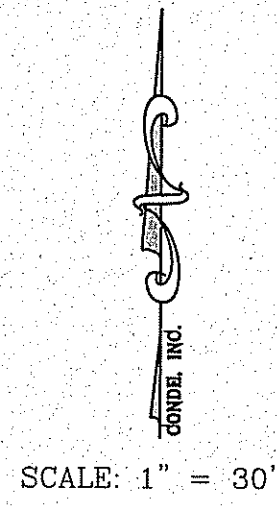
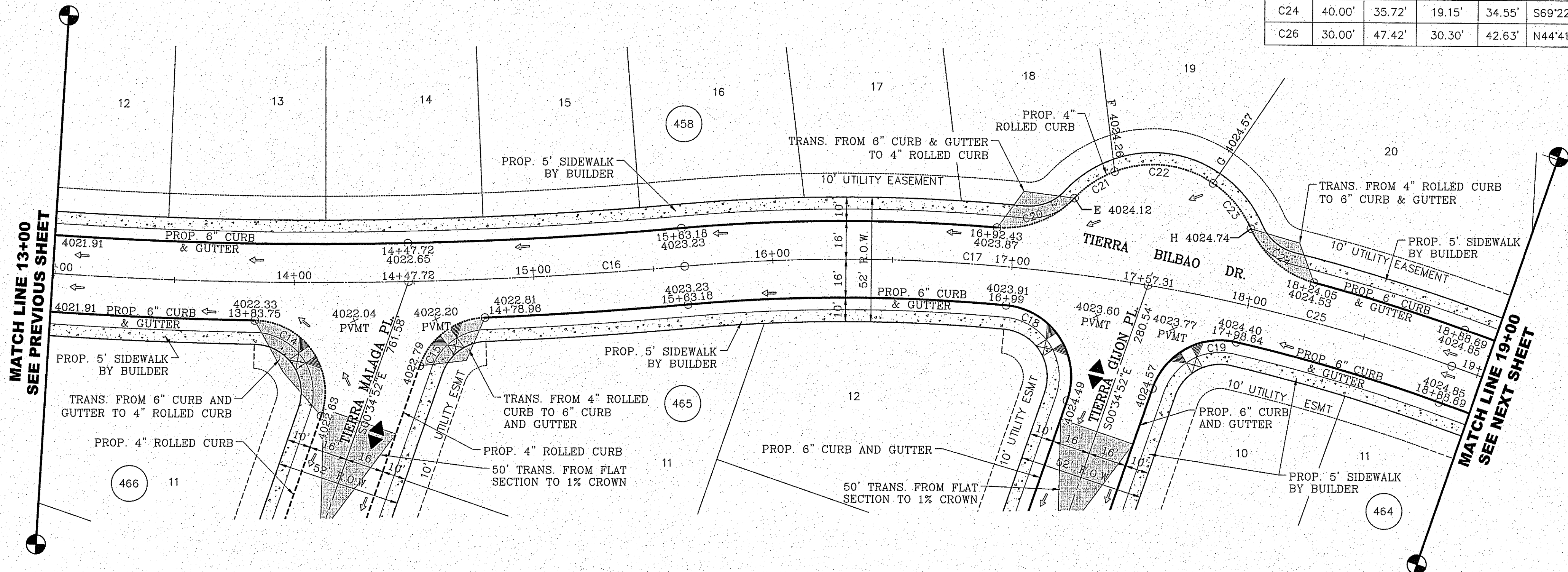
CONDE INC.
 ENGINEERING / PLANNING
 SURVEYING / GPS
 6080 SURETY DR. STE 100
 EL PASO, TEXAS 79905
 PHONE: (915) 592-0283
 FAX: (915) 592-0286

CONDE INC.
 REGISTRATION No. F231

SHEET TITLE
 STREET PLAN-PROFILE
TIERRA MURCIA ST. / TIERRA BILBAO DR.
 STA: 7+00 TO STA: 13+00

FILE LOCATION S:\Subdivisions\TDE 73\DWG\PP-MURCIA PLOTTED ON Tuesday, October 11, 2016 4:48:36 PM BY ESTEBAN JUAREZ

CURVE TABLE						
CURVE	RADIUS	LENGTH	TANGENT	CHORD	BEARING	DELTA
C14	30.00'	56.66'	41.45'	48.60'	N54°41'01"W	108°12'19"
C15	30.00'	35.90'	20.45'	33.79'	S33°41'48"W	68°33'20"
C18	30.00'	54.42'	38.35'	47.26'	N52°32'53"W	103°56'01"
C19	30.00'	43.81'	26.86'	40.02'	S41°15'28"W	83°40'41"
C20	40.00'	35.72'	19.15'	34.55'	N49°23'52"E	51°10'13"
C21	45.00'	20.27'	10.31'	20.10'	S36°43'08"W	25°48'45"
C22	45.00'	43.01'	23.31'	41.39'	S77°00'24"W	54°45'48"
C23	45.00'	24.99'	12.83'	24.67'	N59°42'06"W	31°49'11"
C24	40.00'	35.72'	19.15'	34.55'	S69°22'37"E	51°10'13"
C26	30.00'	47.42'	30.30'	42.63'	N44°41'42"E	90°33'43"



BENCHMARK	
CITY MONUMENT AT THE CENTERLINE INTERSECTION OF SADDLEHORN PL. AND HOLLY SPRINGS AVE.	ELEVATION 4024.74

PROJECT NAME
Tierra del Este Unit 73
 BEING PORTION OF SECTION 46, BLOCK 79, TOWNSHIP 2, TEXAS AND PACIFIC RAILROAD SURVEYS, EL PASO COUNTY, TEXAS
 CONTAINING: 52.766± ACRES

SCALE
 HORIZ: 1" = 40.00'
 VERT: 1" = 10.00'
 DATE: OCT. 2014
 DESIGNED BY: Y.C.
 INITIATED BY: R.R.
 CHECKED BY: Y.C.
 JOB NO.: 1013-23

ENGINEER'S SEAL

 Y.C. MURCIA
 PROFESSIONAL ENGINEER
 STATE OF TEXAS
 NO. 64648

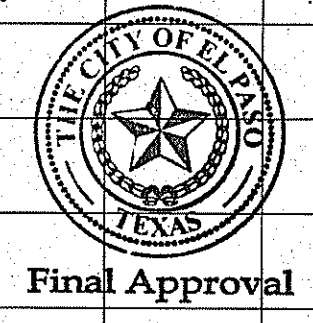
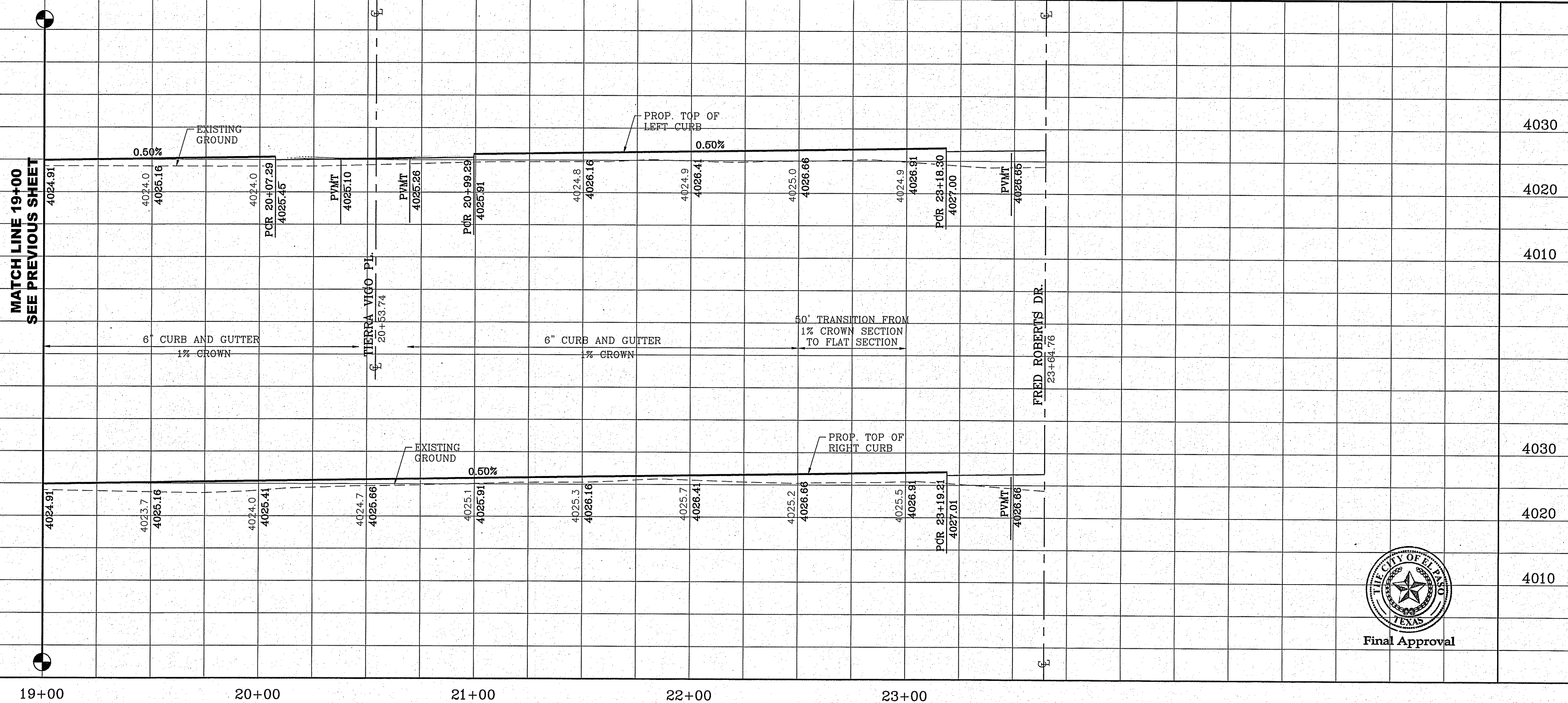
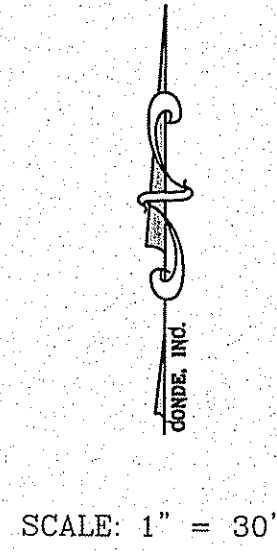
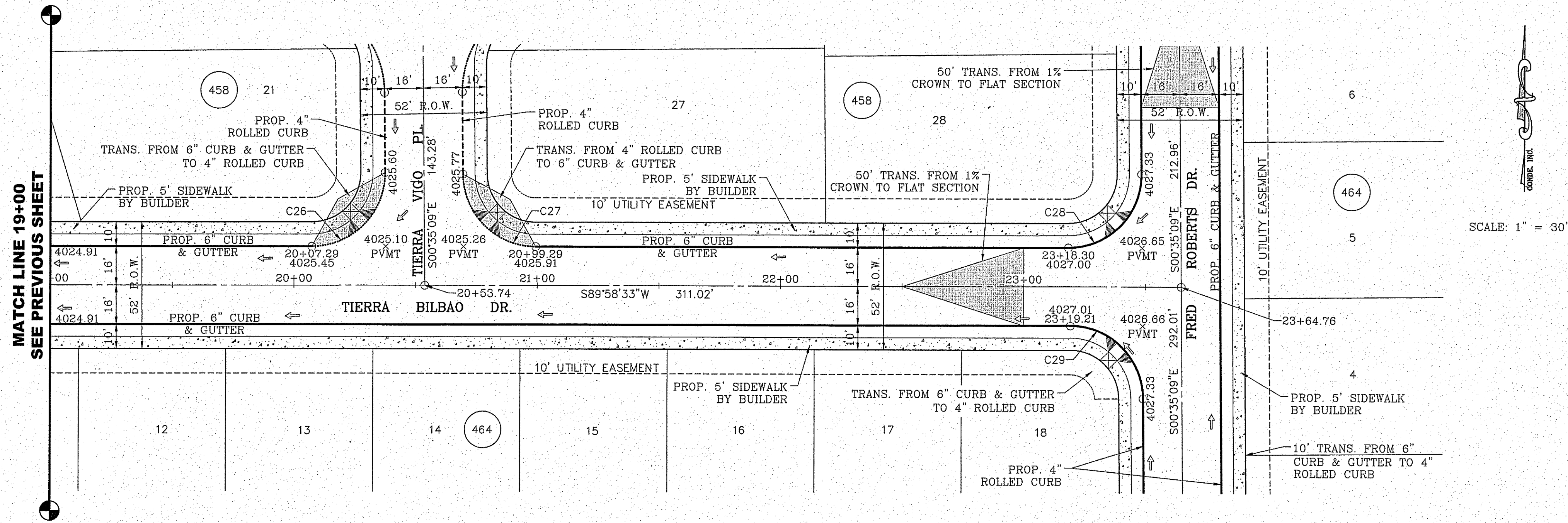
CONDE INC.
 ENGINEERING / PLANNING
 SURVEYING / GPS
 6080 SURVEY DR. STE. 100
 EL PASO, TEXAS 79905
 PHONE: (915) 592-0283
 FAX: (915) 592-0286

SHEET TITLE
STREET
PLAN - PROFILE
TIERRA
BILBOA DR.
 STA: 13+00 TO
 STA: 19+00

FILE LOCATION S:\Subdivisions\TDE 73 DWG\PP-MURCIA PLOTTED ON Tuesday, October 11, 2016 4:46:45 PM BY ESTEBAN JUAREZ

CURVE TABLE						
CURVE	RADIUS	LENGTH	TANGENT	CHORD	BEARING	DELTA
C14	30.00'	56.66'	41.45'	48.60'	N54°41'01"W	108°12'19"
C15	30.00'	35.90'	20.45'	33.79'	S33°41'48"W	68°33'20"
C18	30.00'	54.42'	38.35'	47.26'	N52°32'53"W	103°56'01"
C19	30.00'	43.81'	26.86'	40.02'	S41°15'28"W	83°40'41"
C20	40.00'	35.72'	19.15'	34.55'	N49°23'52"E	51°10'13"
C21	45.00'	20.27'	10.31'	20.10'	S36°43'08"W	25°48'45"
C22	45.00'	43.01'	23.31'	41.39'	S77°00'24"W	54°45'48"

CURVE TABLE						
CURVE	RADIUS	LENGTH	TANGENT	CHORD	BEARING	DELTA
C23	45.00'	24.99'	12.83'	24.67'	N59°42'06"W	31°49'11"
C24	40.00'	35.72'	19.15'	34.55'	S69°22'37"E	51°10'13"
C26	30.00'	47.42'	30.30'	42.63'	N44°41'42"E	90°33'43"
C27	30.00'	46.83'	29.71'	42.22'	S45°18'18"E	89°26'17"
C28	30.00'	47.42'	30.30'	42.63'	N44°41'42"E	90°33'43"
C29	30.00'	46.83'	29.71'	42.22'	S45°18'18"E	89°26'17"



Final Approval

REVISIONS	
DATE	BY
05/05/16	E.J.

TIERRA DEL ESTE UNIT 73
 BEING PORTION OF SECTION 48, BLOCK 79, TOWNSHIP 2,
 EL PASO COUNTY, TEXAS
 CONTAINING: 52.766± ACRES

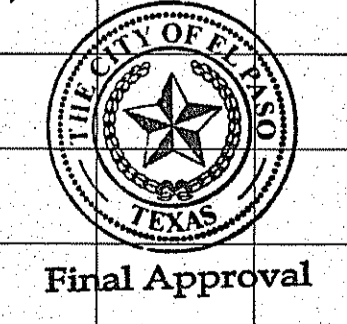
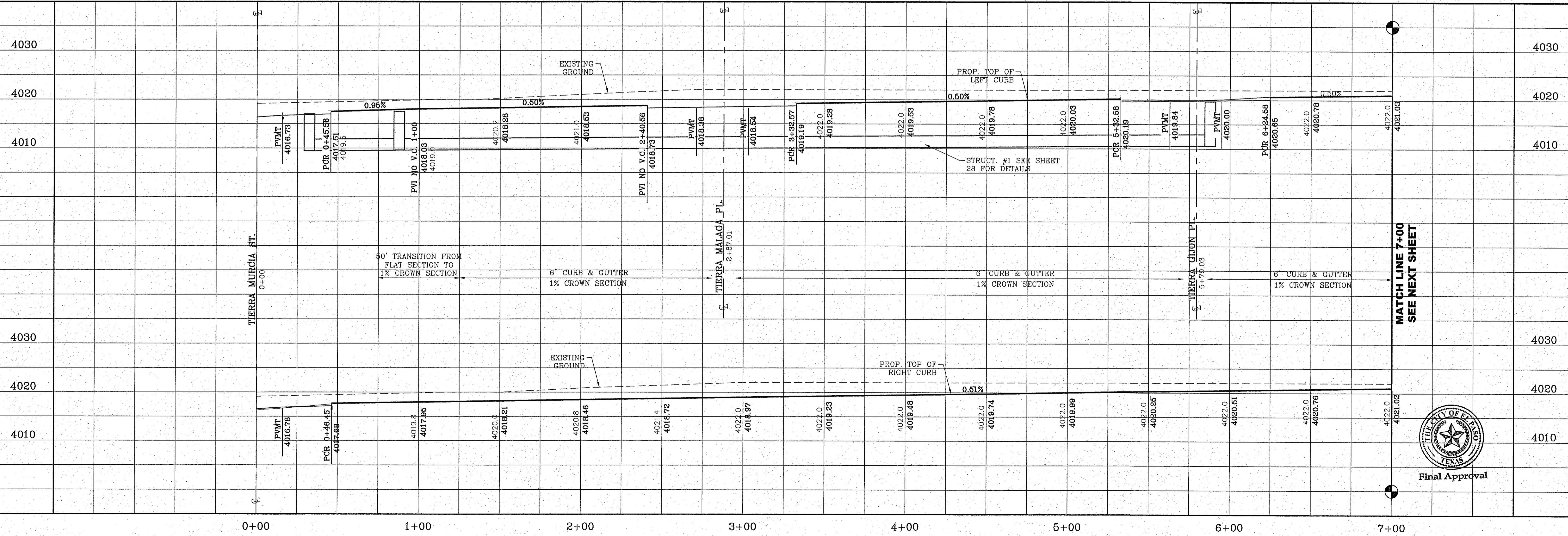
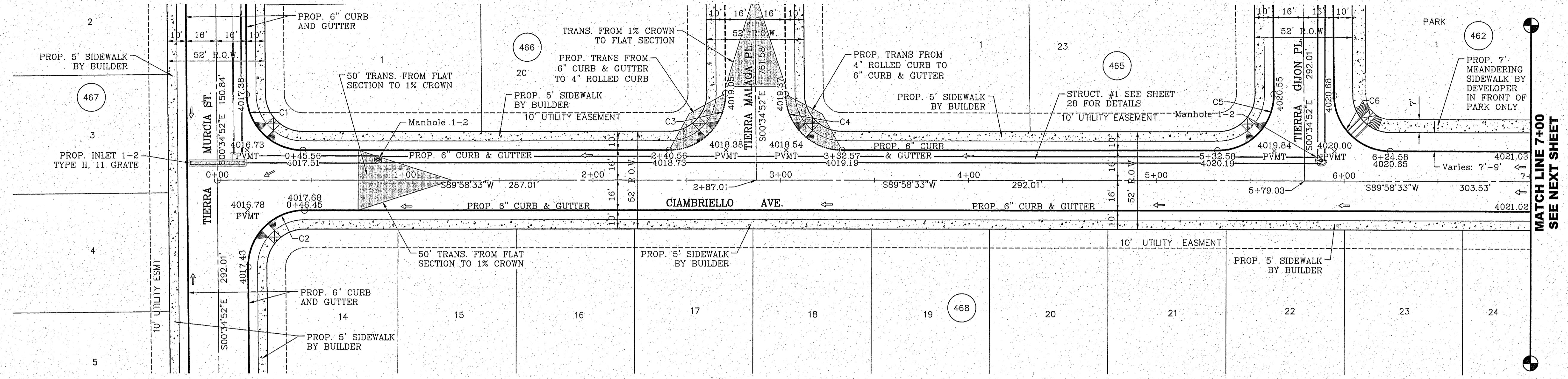
CONDE INC.
 ENGINEERING / PLANNING
 SURVEYING / GPS
 6080 SURETY DR. STE 100
 EL PASO, TEXAS 79905
 PHONE: (915) 592-0283
 FAX: (915) 592-0286

TIERRA BILBAO DR.
 STA: 19+00
 TO
 STA: 23+64.76

FILE LOCATION S:\Subdivisions\73\DWG\PP-CIAMBRIELLO PLOTTED ON Tuesday, October 11, 2016 4:49:20 PM BY ESTEBAN JUAREZ

CURVE TABLE						
CURVE	RADIUS	LENGTH	TANGENT	CHORD	BEARING	DELTA
C1	30.00'	46.83'	29.71'	42.22'	S45°18'10"E	89°26'35"
C2	30.00'	47.42'	30.29'	42.63'	S44°41'50"W	90°33'25"
C3	30.00'	47.42'	30.29'	42.63'	N44°41'50"E	90°33'25"
C4	30.00'	46.83'	29.71'	42.22'	S45°18'10"E	89°26'35"
C5	30.00'	47.42'	30.29'	42.63'	N44°41'50"E	90°33'25"
C6	30.00'	46.83'	29.71'	42.22'	S45°18'10"E	89°26'35"

SCALE: 1" = 30'



BENCHMARK	CITY MONUMENT AT THE CENTERLINE INTERSECTION OF SADDLEHORN PL AND HOLLY SPRINGS AVE. ELEVATION 4024.74
DATE	05/05/16
REVISIONS	CITY REDLINES AS PER 03/31/16 COMMENTS
BY	E.J.

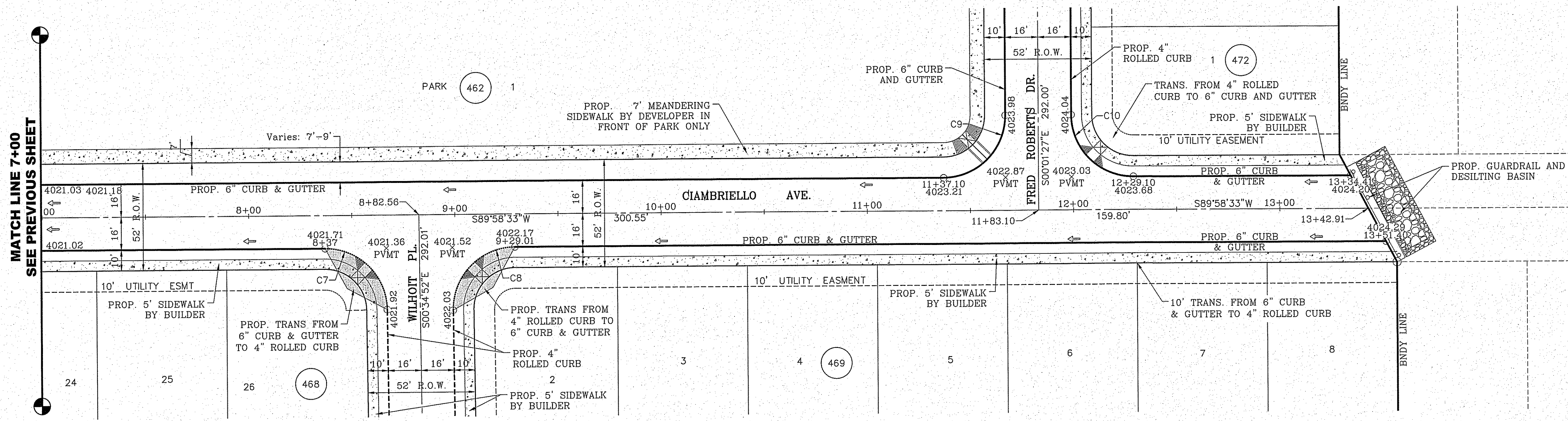
PROJECT NAME
TIERRA DEL ESTE UNIT 73
 BEING PORTION OF SECTION 48, BLOCK 79, TOWNSHIP 2,
 COUNTY OF EL PASO, TEXAS
 CONTAINING: .52766± ACRES

ENGINEER'S SEAL
 S C A I E
 HORIZ: 1" = 400'
 VERT: 1" = 10'
 DATE: OCT. 2014
 DESIGN BY: Y.C.
 INITIATED BY: R.R.
 CHECKED BY: Y.C.
 JOB NO.: 1013-23

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

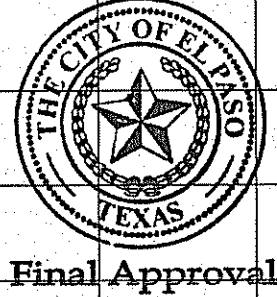
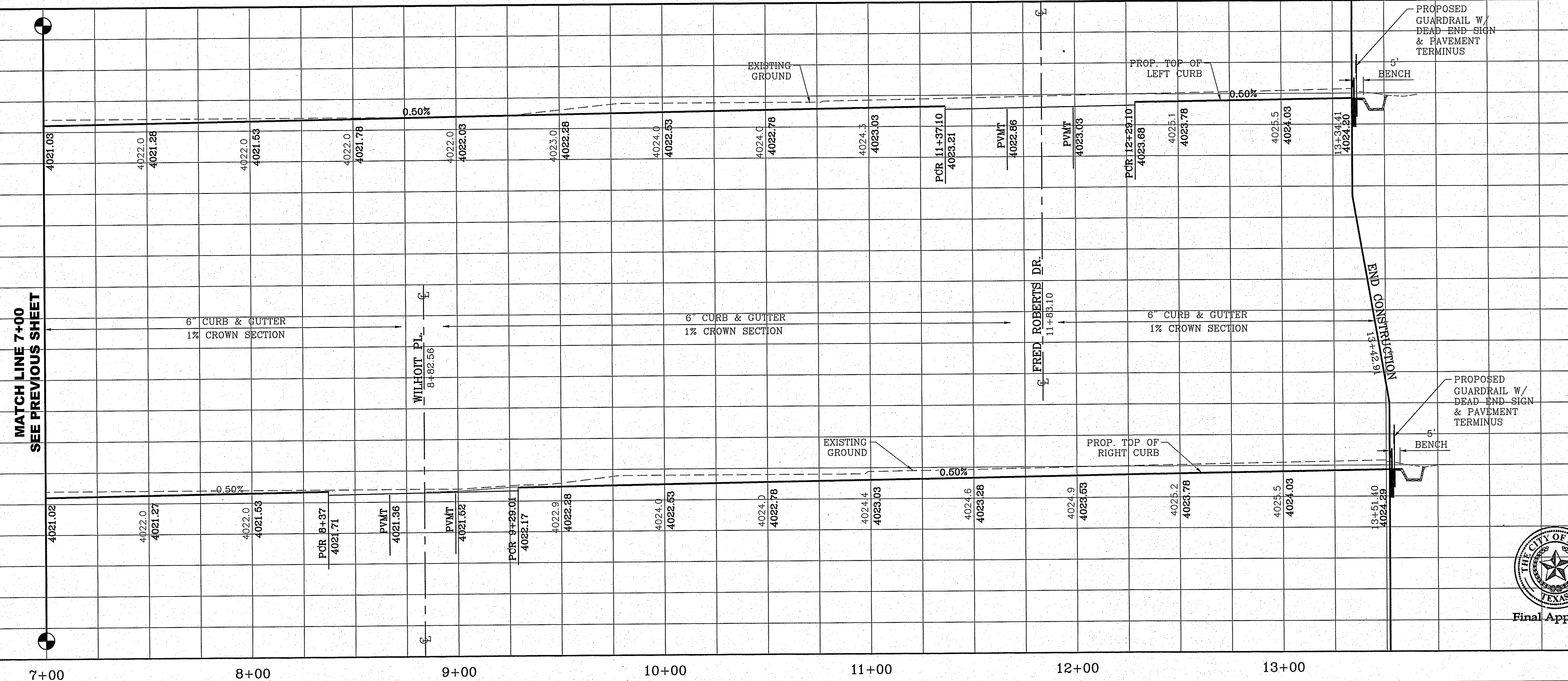
SHEET TITLE
 STREET PLAN-PROFILE
CIAMBRIELLO AVE.
 STA: 0+00 TO STA: 7+00

FILE LOCATION S:\Subdivisions\TDE 73\DWG\PP-CIAMBRIELLO PLOTTED ON Tuesday, October 11, 2016 4:49:30 PM BY ESTEBAN JUAREZ



CURVE	RADIUS	LENGTH	TANGENT	CHORD	BEARING	DELTA
C7	30.00'	46.83'	29.71'	42.22'	N45°18'10"W	89°26'35"
C8	30.00'	47.42'	30.29'	42.63'	S44°41'50"W	90°33'25"
C9	30.00'	47.12'	30.00'	42.43'	N44°58'33"E	90°00'00"
C10	30.00'	47.12'	30.00'	42.43'	S45°01'27"E	90°00'00"

SCALE: 1" = 30'



DATE	REVISIONS	BY
05/05/16	CITY REDLINES AS PER 03/31/16 COMMENTS	E.J.

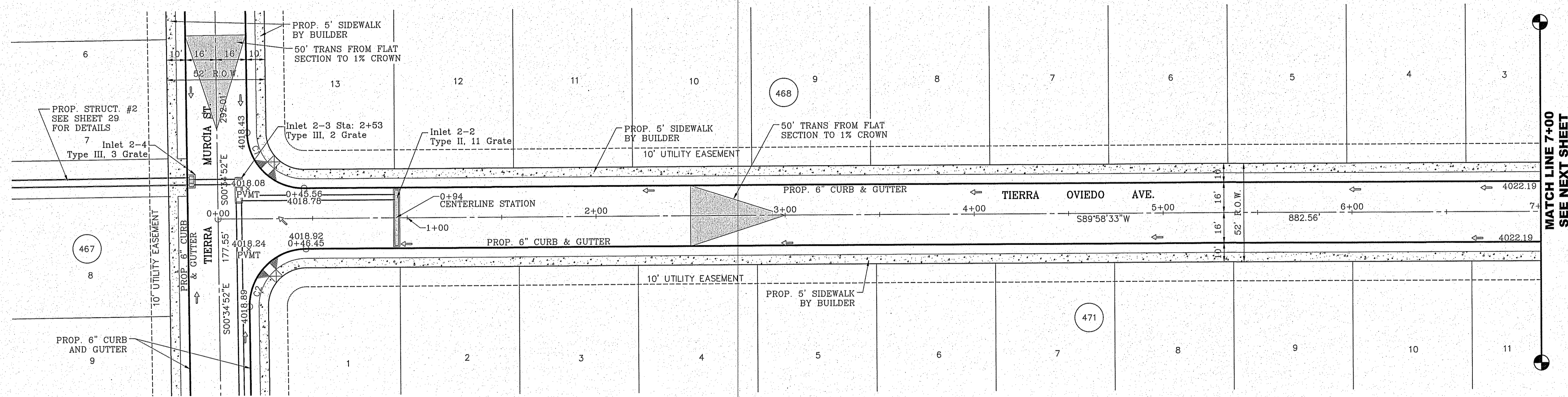
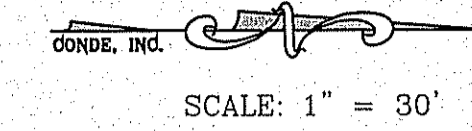
TIERRA DEL ESTE UNIT 73
 BEING PORTION OF SECTION 48, BLOCK 78, TOWNSHIP 2,
 EL PASO COUNTY, TEXAS
 CONTAINING: .52766± ACRES

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

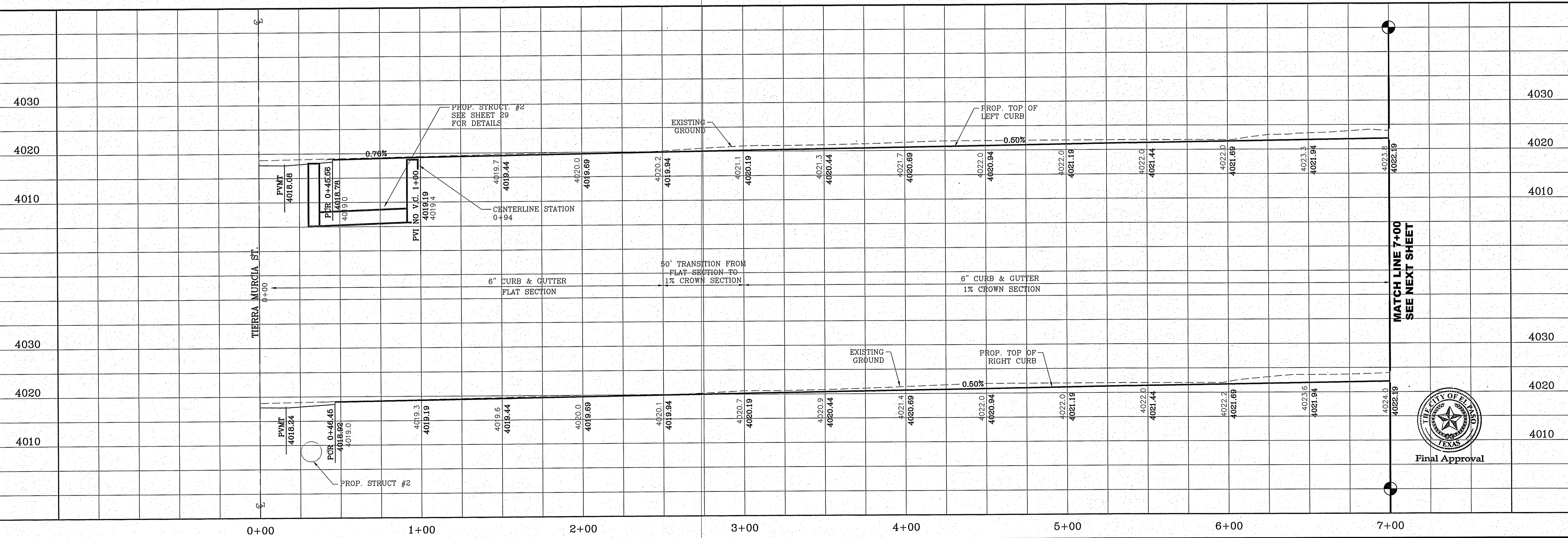
TIERRA DEL ESTE UNIT SEVENTY THREE
CIAMBRIELLO AVE.
 STA: 7+00 TO 13+42.91
 SHT 13 OF 39

FILE LOCATION S:\Subdivisions\TDE 73\DWG\PP-OVIEDO PLOTTED ON Tuesday, October 11, 2016 4:50:04 PM BY ESTEBAN JUAREZ

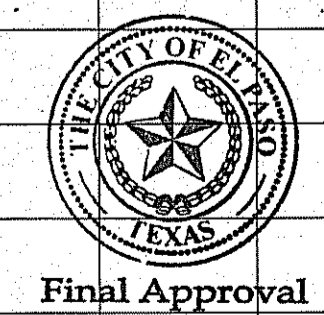
CURVE TABLE						
CURVE	RADIUS	LENGTH	TANGENT	CHORD	BEARING	DELTA
C1	30.00'	46.83'	29.71'	42.22'	S45°18'10"E	89°26'35"
C2	30.00'	47.42'	30.29'	42.63'	S44°41'50"W	90°33'25"



MATCH LINE 7+00
SEE NEXT SHEET



MATCH LINE 7+00
SEE NEXT SHEET



BENCHMARK	CITY MOUNTAIN AT THE CENTERLINE INTERSECTION OF SADDLEHORN PL. AND HOLLY SPRINGS AVE. ELEVATION 4024.74
DATE	05/05/16
REVISIONS	CITY REDLINES AS PER 03/31/16 COMMENTS
BY	E.L.

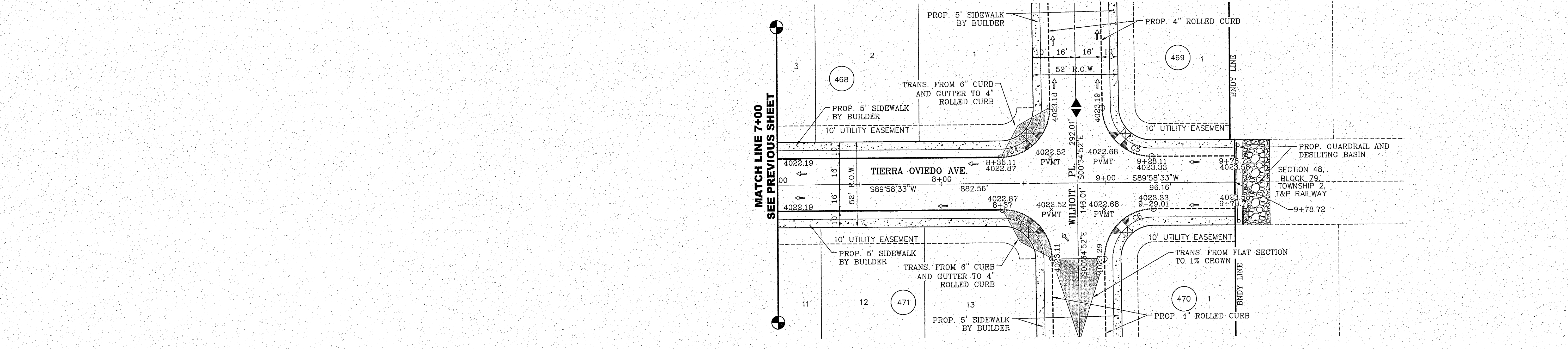
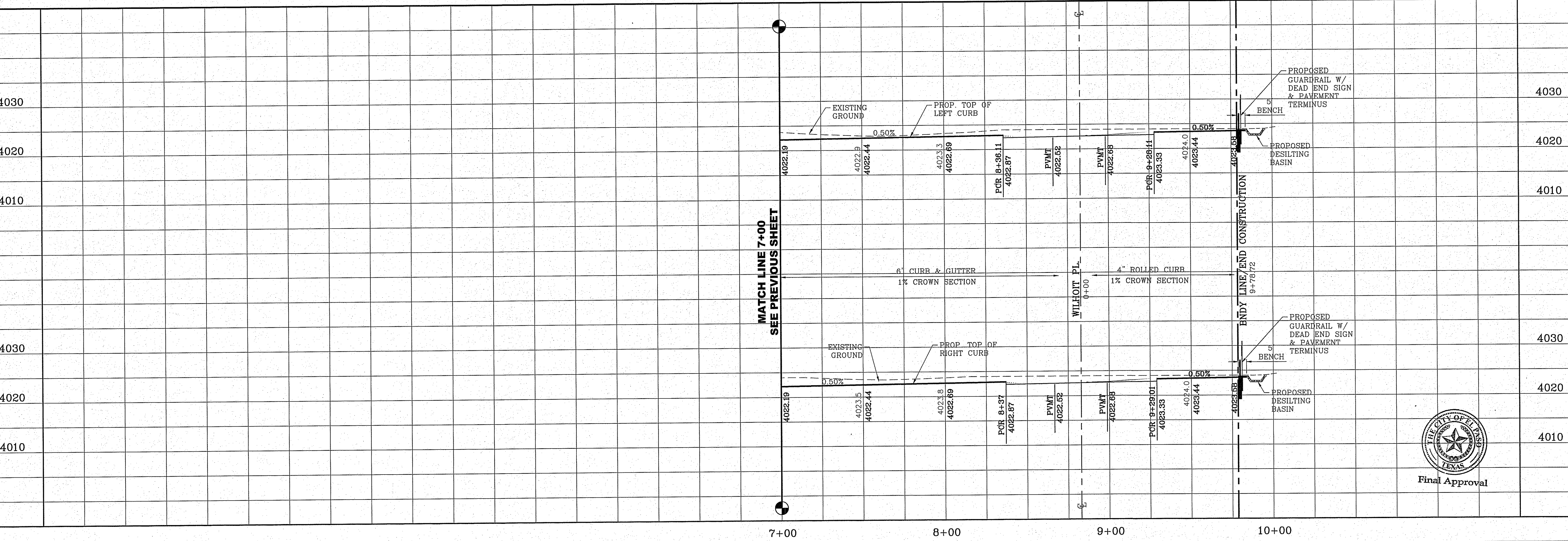
PROJECT NAME
TIERRA DEL ESTE UNIT 73
BEING PORTION OF SECTION 48, BLOCK 79, TOWNSHIP 2, TEXAS AND PACIFIC RAILWAY Co. SURVEYS, EL PASO COUNTY, TEXAS CONTAINING: 52.7661 ACRES

SCALE
HORIZ: 1"= 80.00'
VERT: 1"= 10.00'
DATE: OCT. 2014
DESIGN BY: Y.C.
INITIATED BY: R.R.
CHECKED BY: Y.C.
JOB NO.: 1013-23

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

SHEET TITLE
STREET
PLAN-PROFILE
TIERRA OVIEDO AVE.
STA: 0+00 TO
STA: 7+00
SHT 14 OF 39

FILE LOCATION S:\Subdivisions\73\DWG\PP-OVIEDO PLOTTED ON Tuesday, October 11, 2016 4:50:14 PM BY ESTEBAN JUAREZ



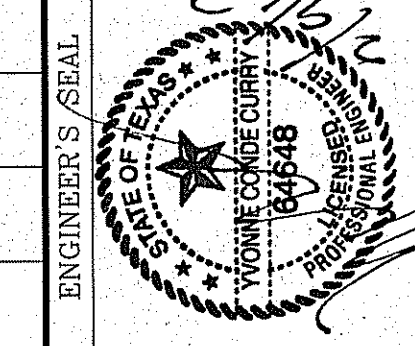
CURVE TABLE						
CURVE	RADIUS	LENGTH	TANGENT	CHORD	BEARING	DELTA
C3	30.00'	46.83'	29.71'	42.22'	N45°18'10"W	89°26'35"
C4	30.00'	47.42'	30.29'	42.63'	N44°41'50"E	90°33'25"
C5	30.00'	46.83'	29.71'	42.22'	S45°18'10"E	89°26'35"
C6	30.00'	47.42'	30.29'	42.63'	S44°41'50"W	90°33'25"

CONDE, INC.
SCALE: 1" = 30'

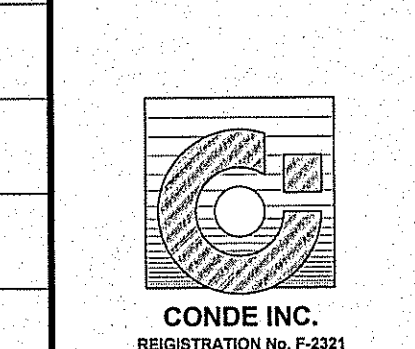
DATE	REVISIONS	BY
05/05/16	CITY REVISIONS AS PER 03/31/16 COMMENTS	E.J.

TIERRA DEL ESTE UNIT 73
 BEING PORTION OF SECTION 48, BLOCK 79, TOWNSHIP 2,
 TEXAS AND PACIFIC RAILWAY CO. SURVEYS,
 EL PASO COUNTY, TEXAS
 CONTAINING .52766± ACRES

SCALE
 HORIZ: 1" = 800'
 VERT: 1" = 10'
 DATE: OCT. 2014
 DESIGN BY: Y.C.
 INITIATED BY: R.R.
 CHECKED BY: Y.C.
 JOB NO.: 1013-23



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

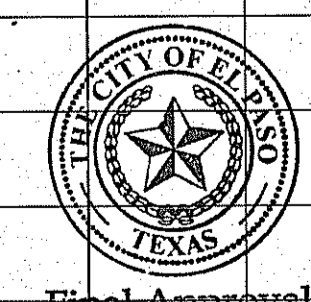
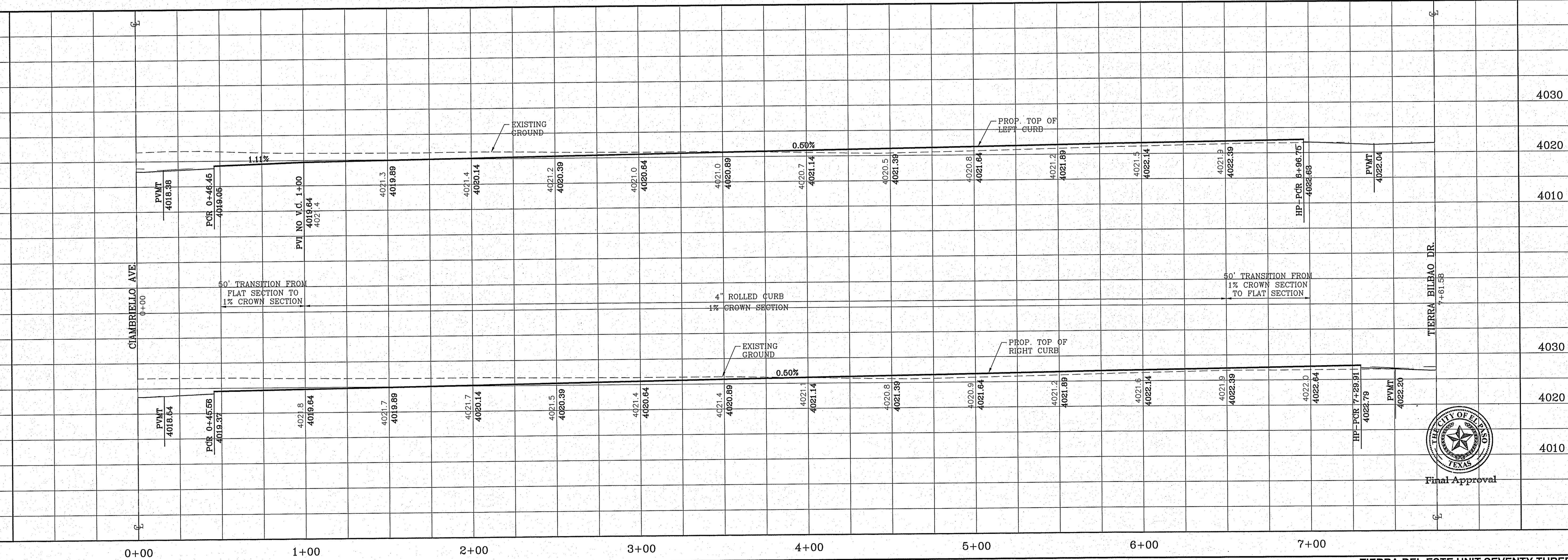
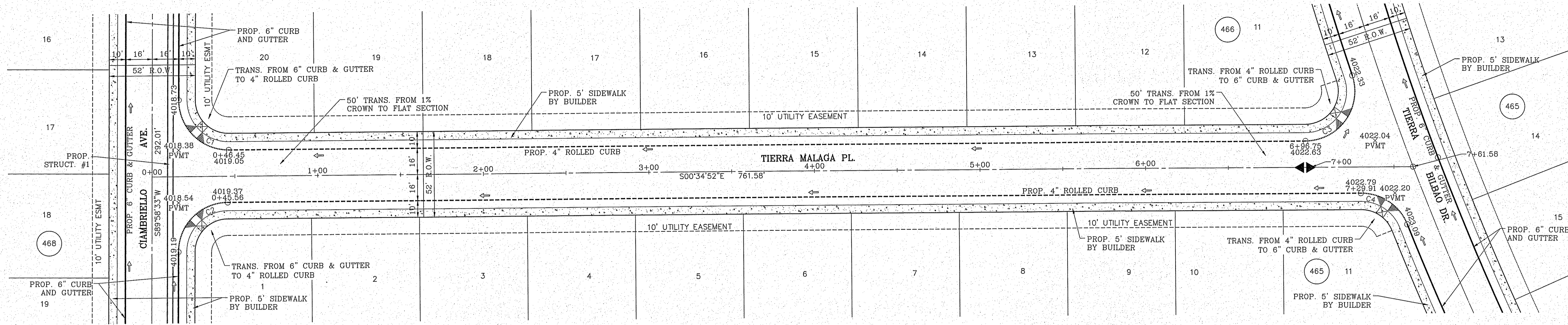


TIERRA OVIEDO AVE.
 STA: 7+00 TO
 STA: 9+78.72

FILE LOCATION S:\Subdivisions\TDE 73\DWG\PP-MALAGA PLOTTED ON Tuesday, October 11, 2016 4:50:47 PM BY ESTEBAN JUAREZ

CURVE TABLE						
CURVE	RADIUS	LENGTH	TANGENT	CHORD	BEARING	DELTA
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C2	30.00'	46.83'	29.71'	42.22'	S45°18'10"E	89°26'35"
C3	30.00'	56.66'	41.45'	48.60'	N54°41'01"W	108°12'19"
C4	30.00'	35.90'	20.45'	33.79'	S33°41'48"W	68°33'20"

SCALE: 1" = 30'



Final Approval

DATE	REVISIONS	BY
05/05/16	CITY REDLINES AS PER 03/31/16 COMMENTS	E.J.

TIERRA DEL ESTE UNIT 73
 BEING PORTION OF SECTION 48, BLOCK 78, TOWNSHIP 2,
 TEXAS AND PACIFIC RAILWAY CO. SURVEYS,
 EL PASO COUNTY, TEXAS
 CONTAINING: .32766± ACRES

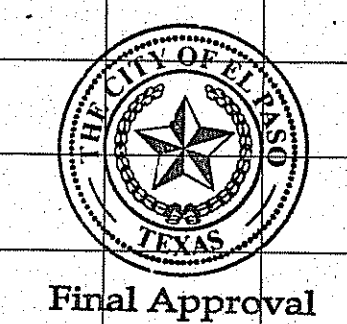
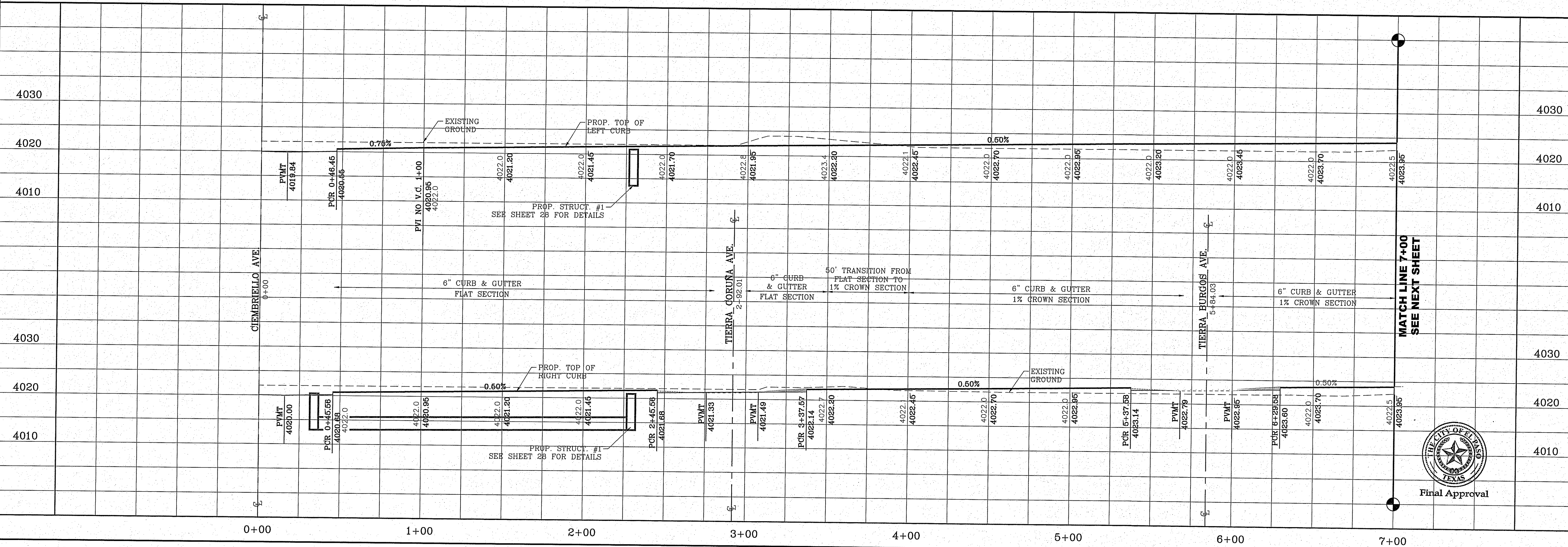
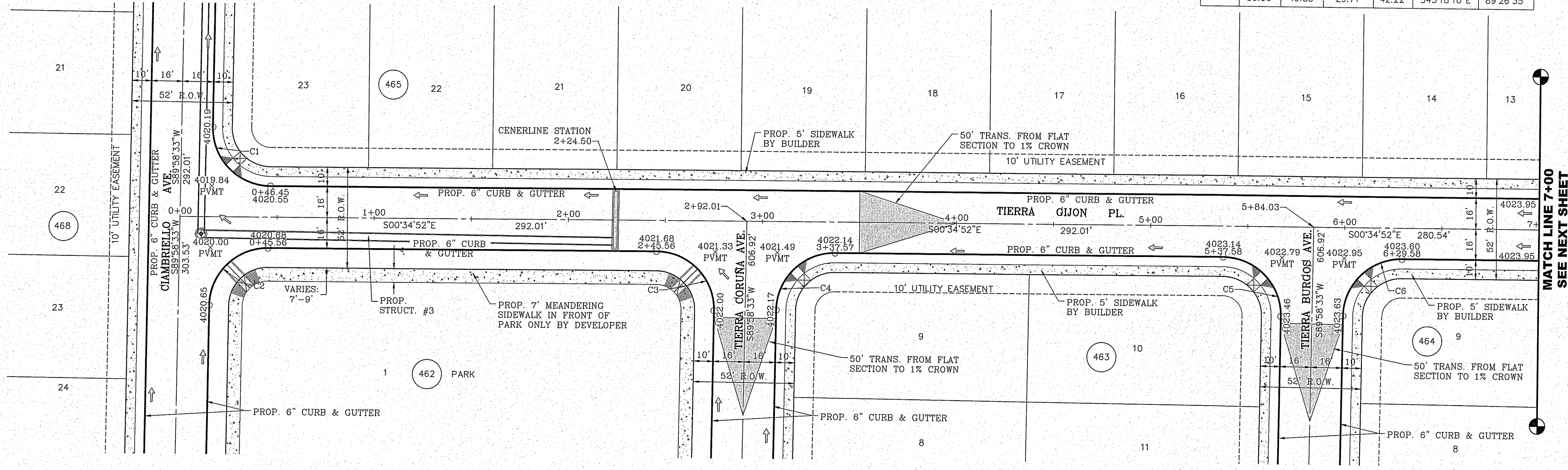
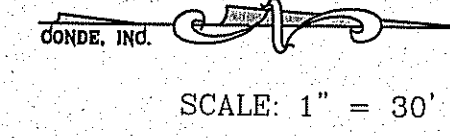
ENGINEER'S SEAL
 CONDE INC.
 ENGINEERING / PLANNING
 SURVEYING / GPS
 6080 SURETY DR. STE 100
 EL PASO, TEXAS 79905
 PHONE: (915) 592-0283
 FAX: (915) 592-0286

PROJECT NAME
TIERRA DEL ESTE UNIT 73

SHEET TITLE
**STREET
 PLAN-PROFILE**

FILE LOCATION s:\Subdivisions\TDE 73\DWG\PP-GIJON PLOTTED ON Tuesday, October 11, 2016 4:51:15 PM BY ESTEBAN JUAREZ

CURVE TABLE						
CURVE	RADIUS	LENGTH	TANGENT	CHORD	BEARING	DELTA
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C2	30.00'	46.83'	29.71'	42.22'	S45°18'10"E	89°26'35"
C3	30.00'	47.42'	30.29'	42.63'	S44°41'50"W	90°33'25"
C4	30.00'	46.83'	29.71'	42.22'	S45°18'10"E	89°26'35"
C5	30.00'	47.42'	30.29'	42.63'	S44°41'50"W	90°33'25"
C6	30.00'	46.83'	29.71'	42.22'	S45°18'10"E	89°26'35"



BENCHMARK	CITY MONUMENT AT THE CENTERLINE INTERSECTION OF SADDLEHORN PL AND HOLLY SPRINGS AVE ELEVATION 4024.74
REVISIONS	DATE 05/05/16 CITY REDLINES AS PER 03/31/16 COMMENTS E.J.

PROJECT NAME
TIERRA DEL ESTE UNIT 73
 BEING PORTION OF SECTION 48, BLOCK 70 TOWNSHIP 2, TEXAS AND PACIFIC RAILWAY SURVEYS, EL PASO COUNTY, TEXAS
 CONTAINING: 52.766± ACRES

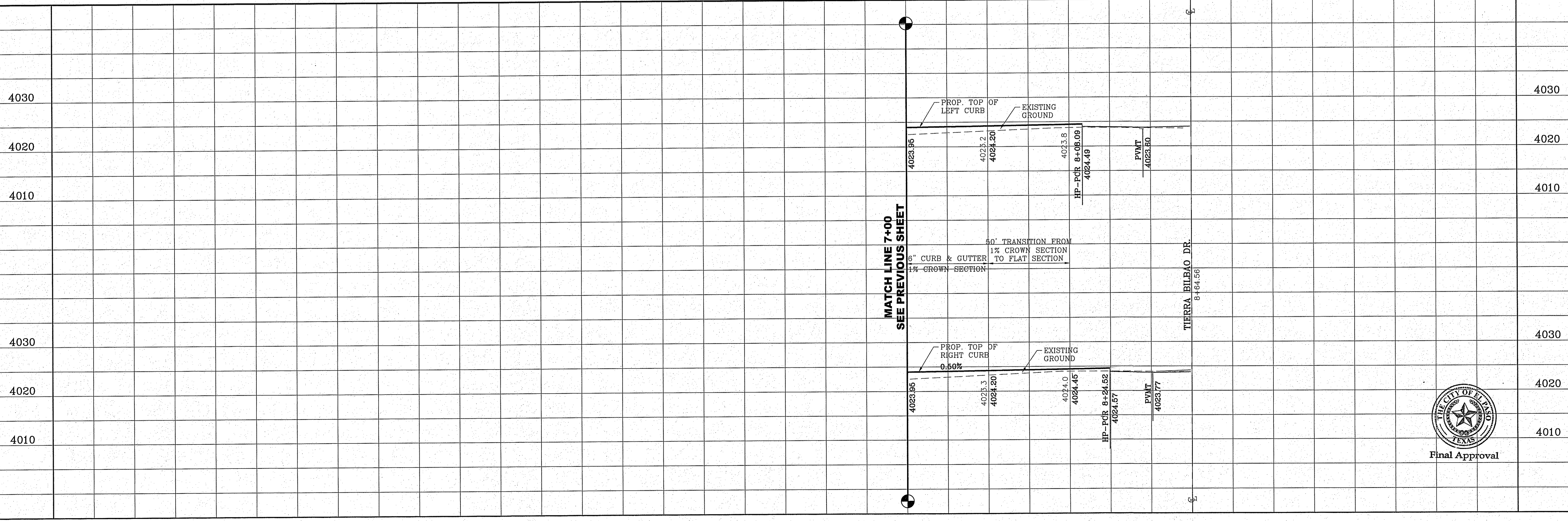
SCALE
 HORIZ. 1" = 80.00'
 VERT. 1" = 10.00'
 DATE: OCT. 2014
 DESIGN BY: Y.C.
 INITIATED BY: R.R.
 CHECKED BY: Y.C.
 JOB NO.: 1013-23

CONDE INC.
 ENGINEERING / PLANNING
 SURVEYING / GPS
 6050 SURETY DR. STE 100
 EL PASO, TEXAS 79905
 PHONE: (915) 592-0263
 FAX: (915) 592-0266



SHEET TITLE
 STREET PLAN-PROFILE
TIERRA GIJON PL.
 STA: 0+00 TO STA: 7+00

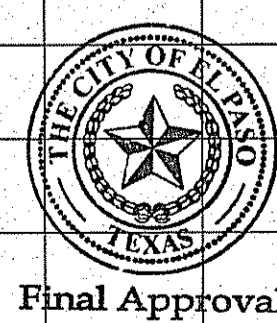
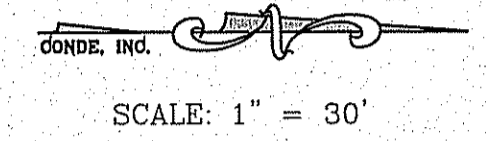
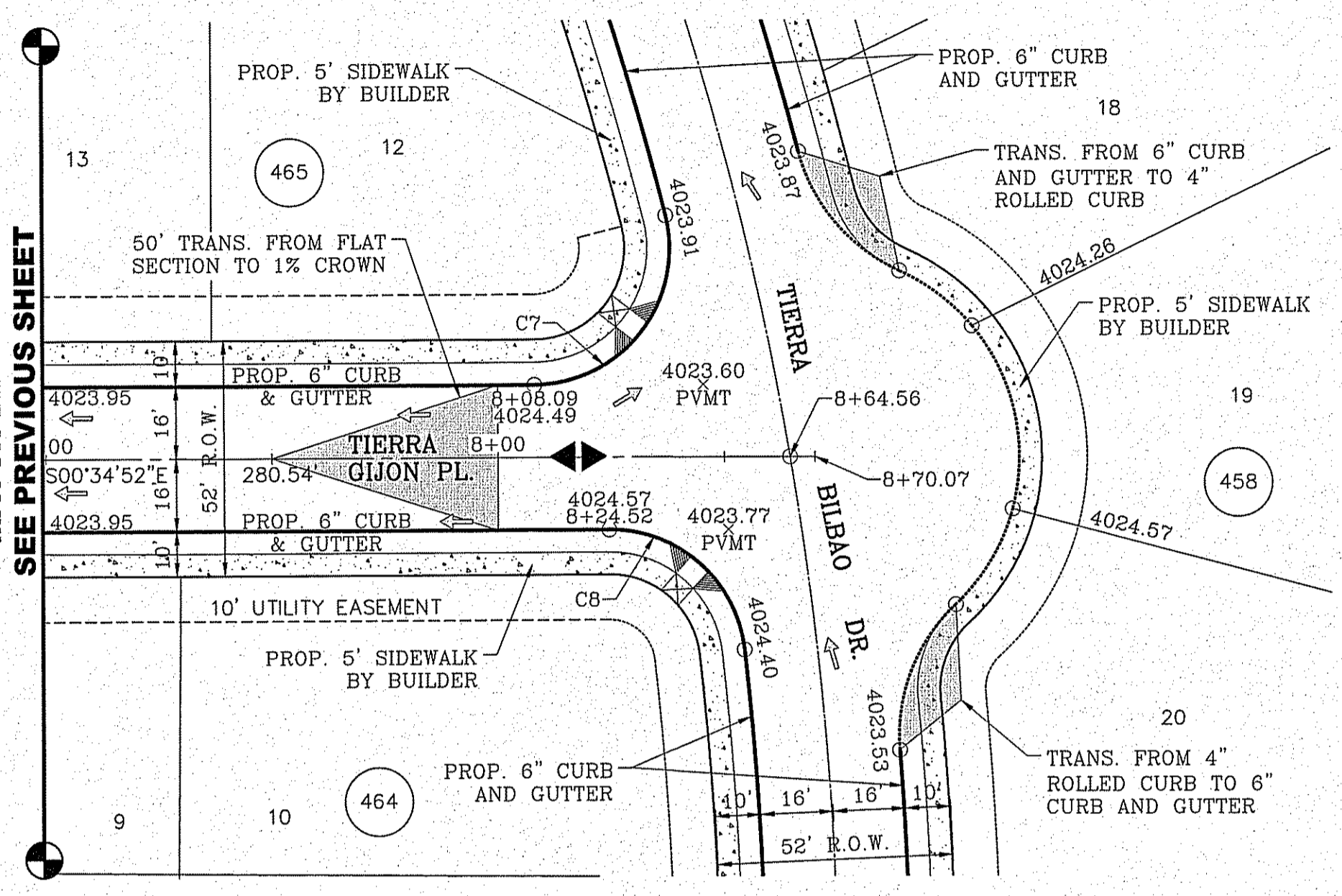
FILE LOCATION S:\Subdivisions\DE 73\DWG\PP-GIJON PLOTTED ON Tuesday, October 11, 2016 4:51:25 PM BY ESTEBAN JUAREZ



MATCH LINE 7+00
SEE PREVIOUS SHEET

MATCH LINE 7+00
SEE PREVIOUS SHEET

CURVE TABLE						
CURVE	RADIUS	LENGTH	TANGENT	CHORD	BEARING	DELTA
C7	30.00'	54.42'	38.35'	47.26'	N52°32'53"W	103°56'01"
C8	30.00'	43.81'	26.86'	40.02'	S41°15'28"W	83°40'41"

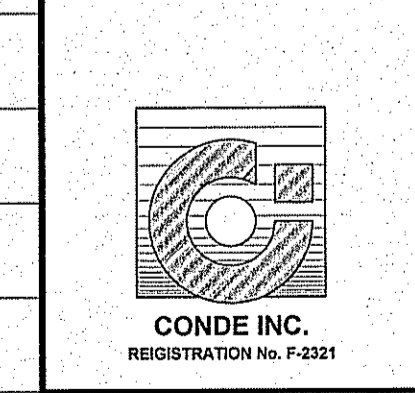


BENCHMARK	CITY MONUMENT AT THE CENTERLINE INTERSECTION OF SADDLEHORN PL. AND HOLLY SPRINGS AVE. ELEVATION 4024.74
DATE	05/05/16
REVISIONS	CITY REVISIONS AS PER 03/31/16 COMMENTS E.J.

PROJECT NAME
TIERRA DEL ESTE UNIT 73
BEING PORTION OF SECTION 48, BLOCK 79, TOWNSHIP 2, TEXAS AND PACIFIC RAILWAY CO. SURVEYS, CONTAINING: 52.766± ACRES

SCALE
HORIZ: 1" = 100'
VERT: 1" = 10.0'
DATE: OCT. 2014
DESIGN BY: Y.C.
INITIATED BY: R.R.
CHECKED BY: Y.C.
JOB NO.: 1013-23

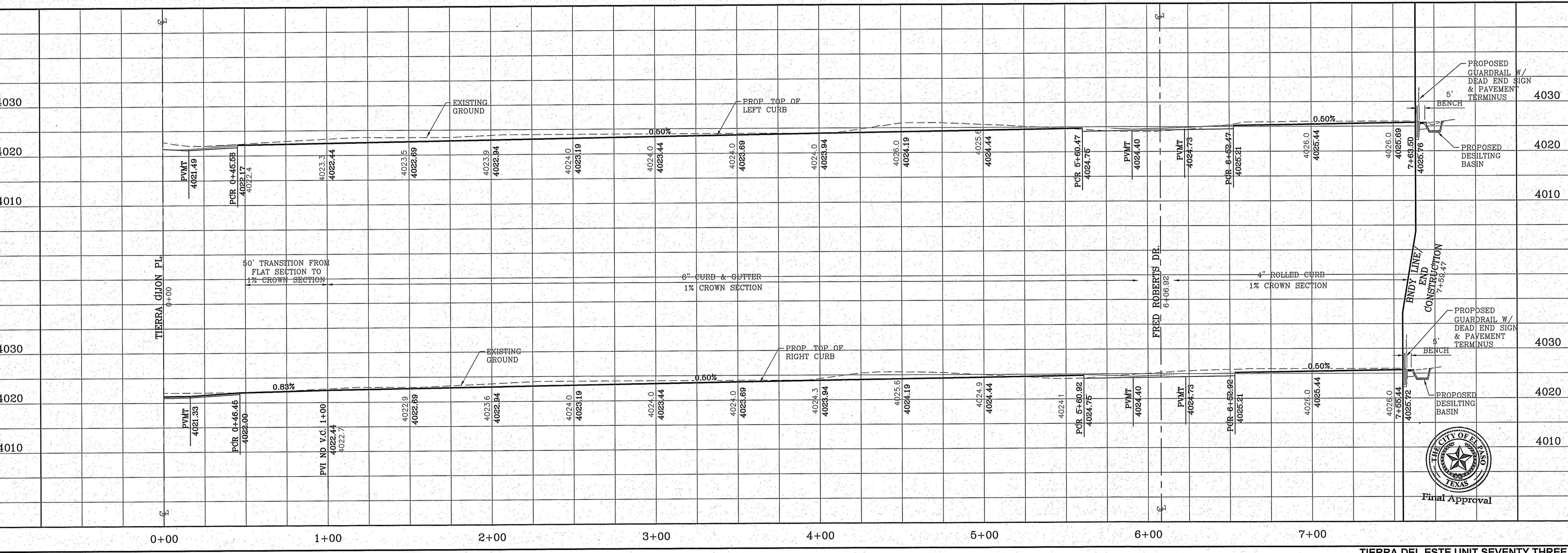
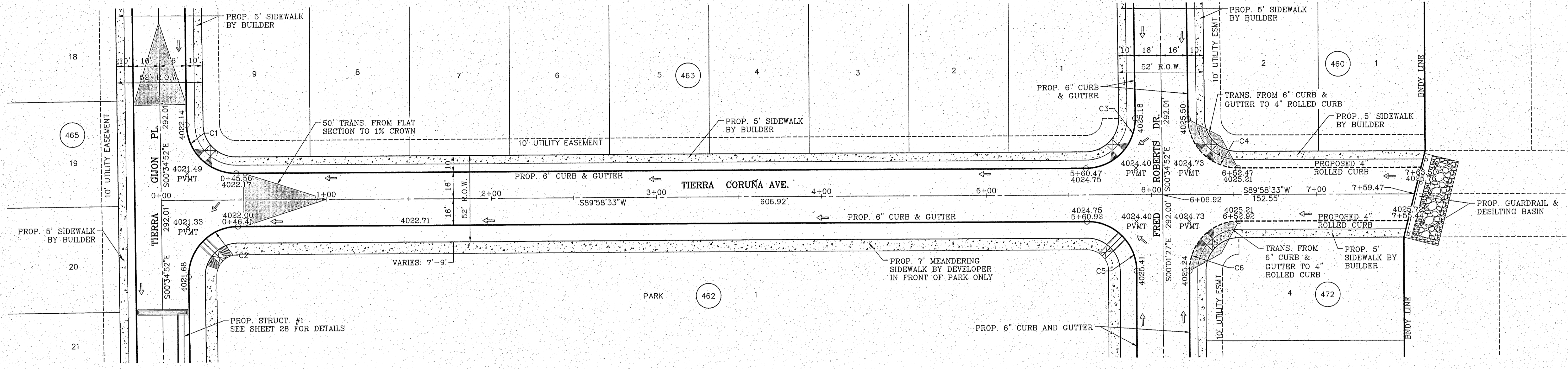
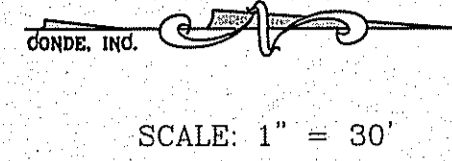
CONDE INC.
ENGINEERING / PLANNING
SURVEYING / GFS
6080 SURETY DR. STE 100
EL PASO, TEXAS 79905
PHONE: (915) 592-0283
FAX: (915) 592-0286



SHEET TITLE
STREET
PLAN-PROFILE
TIERRA GIJON PL.
STA: 7+00 TO
STA: 8+70.07

FILE LOCATION S:\Subdivisions\TDE 73\DWG\PP-CORUNA PLOTTED ON Tuesday, October 11, 2016 4:51:56 PM BY ESTEBAN JUAREZ

CURVE TABLE						
CURVE	RADIUS	LENGTH	TANGENT	CHORD	BEARING	DELTA
C1	30.00'	46.83'	29.71'	42.22'	S45°18'10"E	89°26'35"
C2	30.00'	47.42'	30.29'	42.63'	S44°41'50"W	90°33'25"
C3	30.00'	47.42'	30.29'	42.63'	N44°41'50"E	90°33'25"
C4	30.00'	46.83'	29.71'	42.22'	S45°18'10"E	89°26'35"
C5	30.00'	47.12'	30.00'	42.43'	N45°01'27"W	90°00'00"
C6	30.00'	47.12'	30.00'	42.43'	S44°58'33"W	90°00'00"



BENCHMARK	CITY MONUMENT AT THE CENTERLINE INTERSECTION OF SADDLEHORN PL. AND HOLLY SPRINGS AVE. ELEVATION 4024.74
DATE	05/05/16
REVISIONS	CITY REDLINES AS PER 03/31/16 COMMENTS E.J.

PROJECT NAME
Tierra del Este Unit 73
 BEING PORTION OF SECTION 48, BLOCK 79, TOWNSHIP 2, TEXAS AND PACIFIC RAILWAY CO. SURVEYS, CONTAINING .567661 ACRES

SCALE
 HORIZ: 1" = 400'
 VERT: 1" = 10'
 DATE: OCT. 2014
 DESIGN BY: Y.C.
 INITIATED BY: E.R.
 CHECKED BY: Y.C.
 JOB NO.: 1013-23

ENGINEER'S SEAL
 Y.C. [Professional Engineer Seal]
 YONG CHANG CHUN
 LICENSE NO. 164648
 STATE OF TEXAS

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

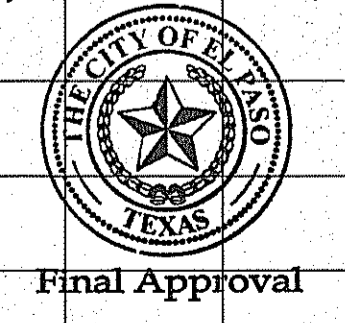
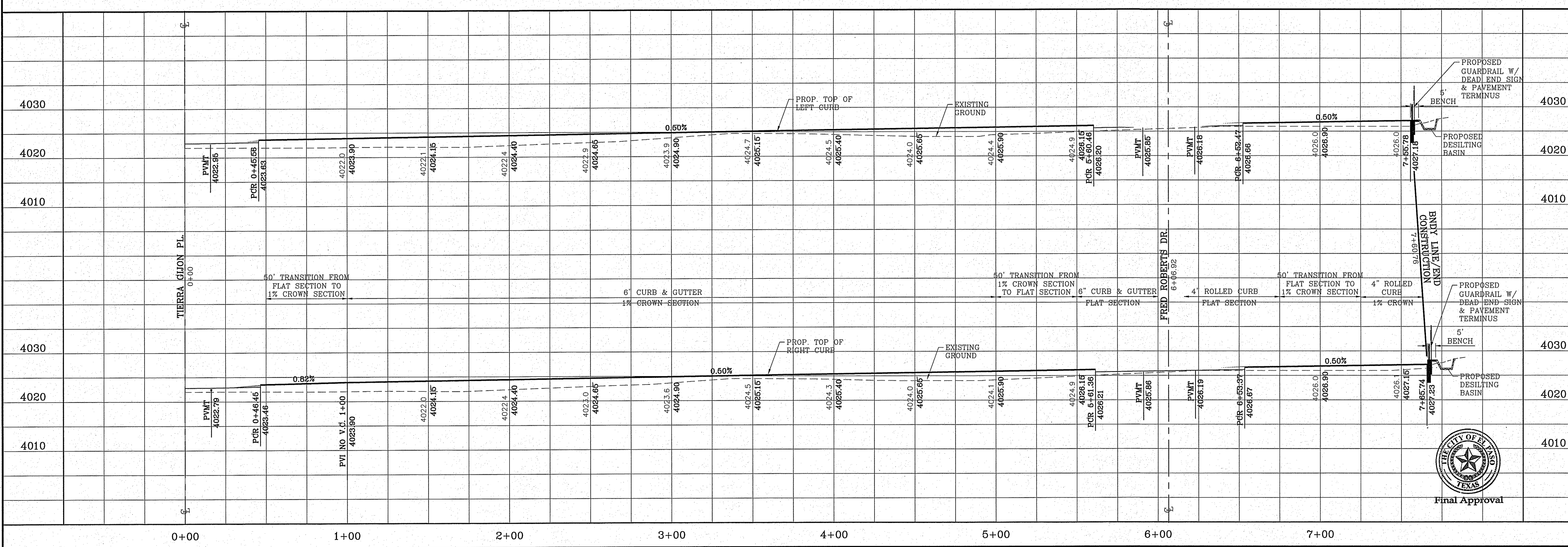
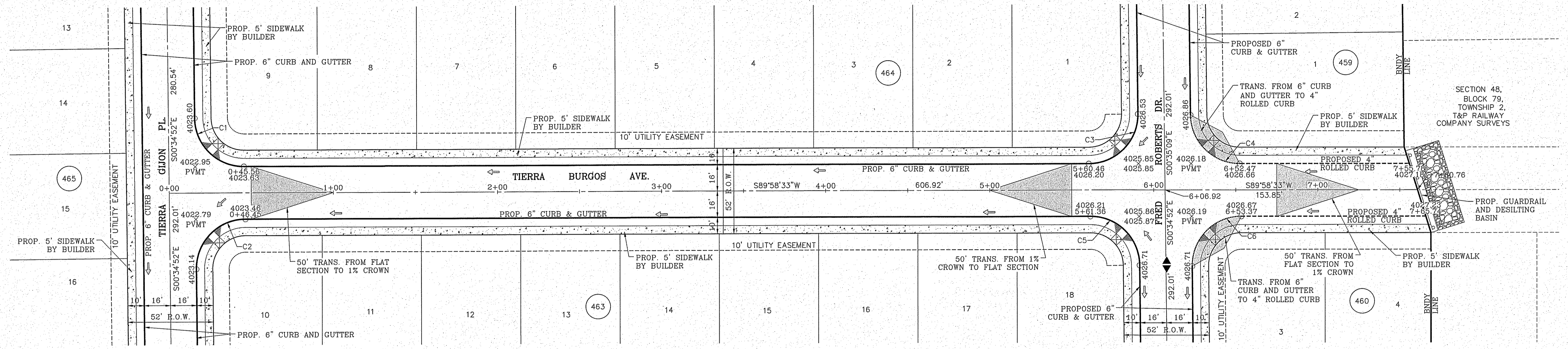
SHEET TITLE
 STREET PLAN-PROFILE
Tierra Coruña Ave.
 STA: 0+00 TO
 STA: 7+59.47
SHT 19 OF 39



FILE LOCATION S:\Subdivisions\TDE 73\DWG PP-BURGOS PLOTTED ON Tuesday, October 11, 2016 4:52:26 PM BY ESTEBAN JUAREZ

CURVE TABLE						
CURVE	RADIUS	LENGTH	TANGENT	CHORD	BEARING	DELTA
C1	30.00'	46.83'	29.71'	42.22'	S45°18'10"E	89°26'35"
C2	30.00'	47.42'	30.29'	42.63'	S44°41'50"W	90°33'25"
C3	30.00'	47.42'	30.30'	42.63'	N44°41'42"E	90°33'43"
C4	30.00'	46.83'	29.71'	42.22'	S45°18'18"E	89°26'17"
C5	30.00'	46.83'	29.71'	42.22'	N45°18'10"W	89°26'35"
C6	30.00'	47.42'	30.29'	42.63'	S44°41'50"W	90°33'25"

SCALE: 1" = 30'



BENCHMARK	CITY MONUMENT AT THE CENTERLINE INTERSECTION OF SADDLEHORN PL. AND HOLLY SPRINGS AVE. ELEVATION 4024.74
DATE	05/05/16
REVISIONS	CITY REDLINES AS PER 03/31/16 COMMENTS E.J.

PROJECT NAME
TIERRA DEL ESTE UNIT 73
 BEING PORTION OF SECTION 48, BLOCK 79, TOWNSHIP 2, T&P RAILWAY COMPANY SURVEYS, TEXAS EL PASO COUNTY, TEXAS
 CONTAINING: 82.766± ACRES

SCALE
 HORIZ: 1" = 4000'
 VERT: 1" = 10'
 DATE: OCT. 2014
 DESIGN BY: Y.C.
 INITIATED BY: R.R.
 CHECKED BY: Y.C.
 JOB NO.: 1013-23

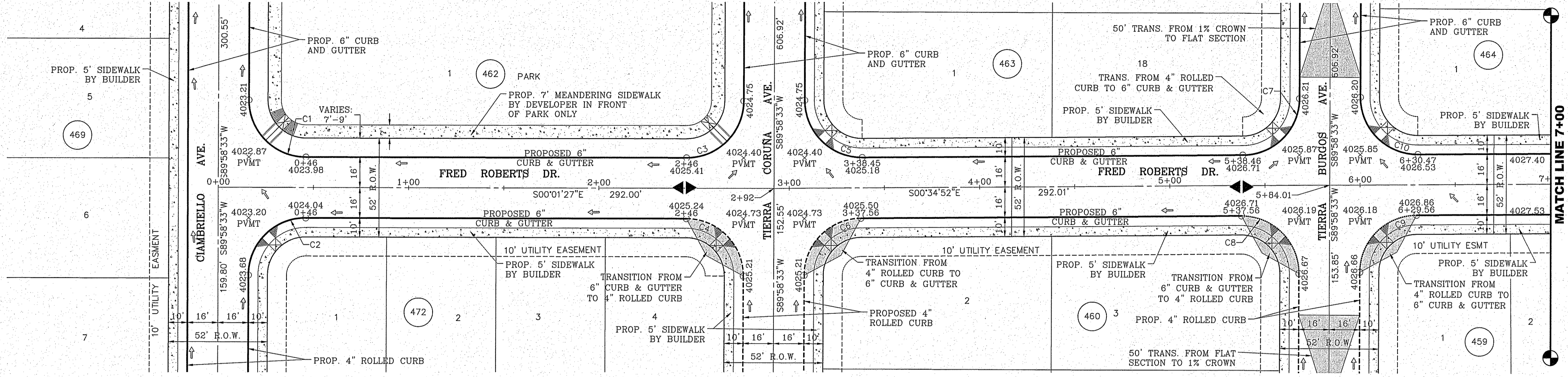
CONDE INC.
 ENGINEERING / PLANNING
 SURVEYING / GPS
 6080 SURETY DR. STE 100
 EL PASO, TEXAS 79905
 PHONE: (915) 592-0263
 FAX: (915) 592-0266

TIERRA BURGOS AVE.
 STA: 0+00 TO
 STA: 7+60.76

SHT 20 OF 39

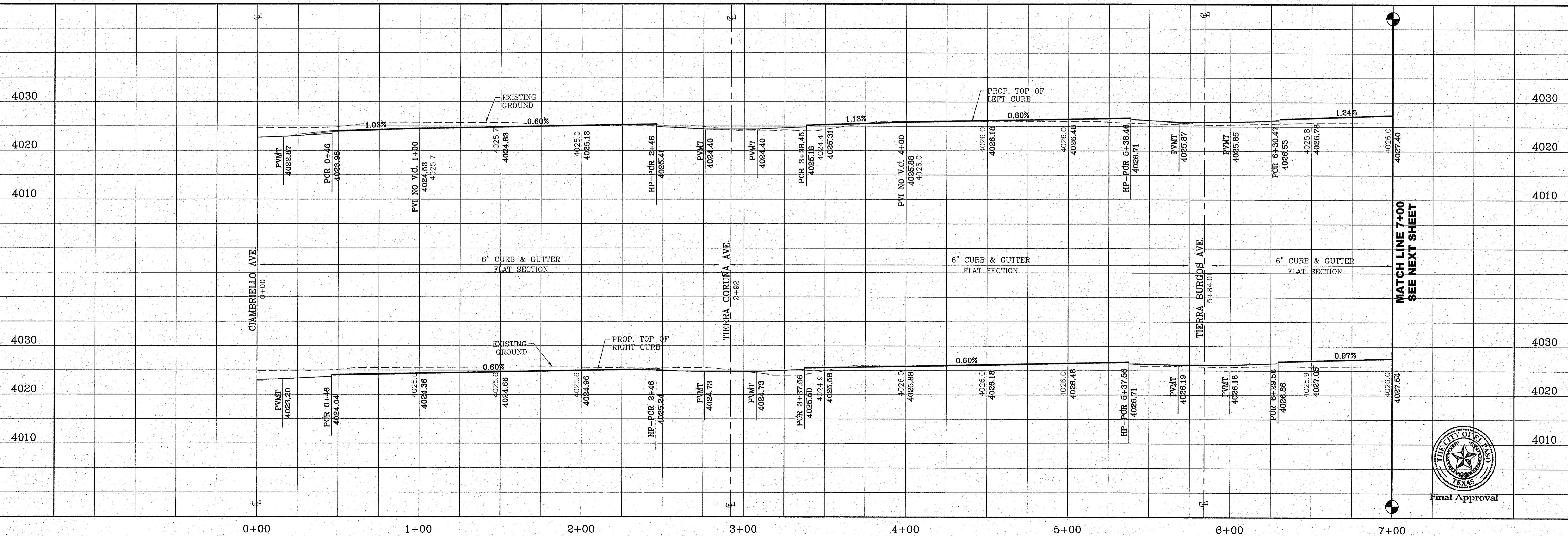
FILE LOCATION S:\Subdivisions\TDE 73 DWG\PP-ROBERTS PLOTTED ON Tuesday, October 11, 2016 4:53:05 PM BY ESTEBAN JUAREZ

CURVE TABLE						
CURVE	RADIUS	LENGTH	TANGENT	CHORD	BEARING	DELTA
C1	30.00'	47.12'	30.00'	42.43'	N44°58'33"E	90°00'00"
C2	30.00'	47.12'	30.00'	42.43'	S45°01'27"W	90°00'00"
C3	30.00'	47.12'	30.00'	42.43'	N45°01'27"W	90°00'00"
C4	30.00'	47.12'	30.00'	42.43'	S44°58'33"W	90°00'00"
C5	30.00'	47.42'	30.29'	42.63'	N44°41'50"E	90°33'25"
C6	30.00'	46.83'	29.71'	42.22'	S45°18'10"E	89°26'35"
C7	30.00'	46.83'	29.71'	42.22'	N45°18'10"W	89°26'35"
C8	30.00'	47.42'	30.29'	42.63'	S44°41'50"W	90°33'25"
C9	30.00'	46.83'	29.71'	42.22'	S45°18'18"E	89°26'17"
C10	30.00'	47.42'	30.30'	42.63'	N44°41'42"E	90°33'43"

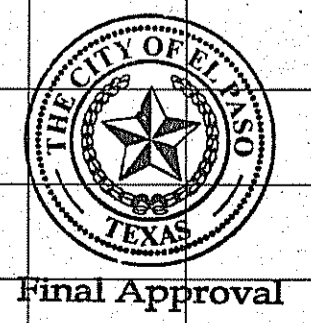


SCALE: 1" = 30'

MATCH LINE 7+00
SEE NEXT SHEET



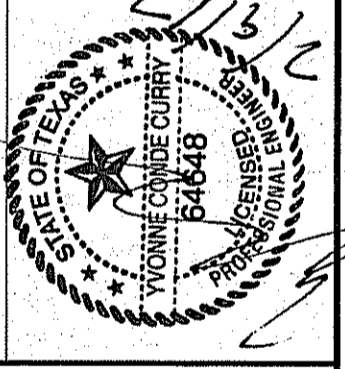
MATCH LINE 7+00
SEE NEXT SHEET



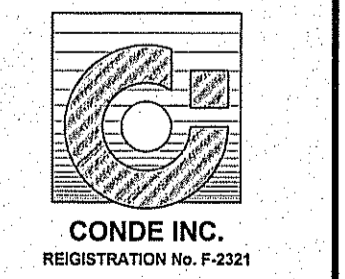
DATE	REVISIONS	BY
05/05/16	CITY REVISIONS AS PER 03/31/16 COMMENTS	E.J.

PROJECT NAME
Tierra del Este Unit 73
BEING PORTION OF SECTION 48, BLOCK 79, TOWNSHIP 2,
TEXAS AND PACIFIC RAILWAY CO. SURVEYS,
CONTAINING .92.768± ACRES

SCALE
HORIZ. 1" = 40.00'
VERT. 1" = 10.00'
DATE: OCT. 2014
DESIGN BY: Y.C.
INITIATED BY: R.R.
CHECKED BY: Y.C.
JOB NO.: 1013-29

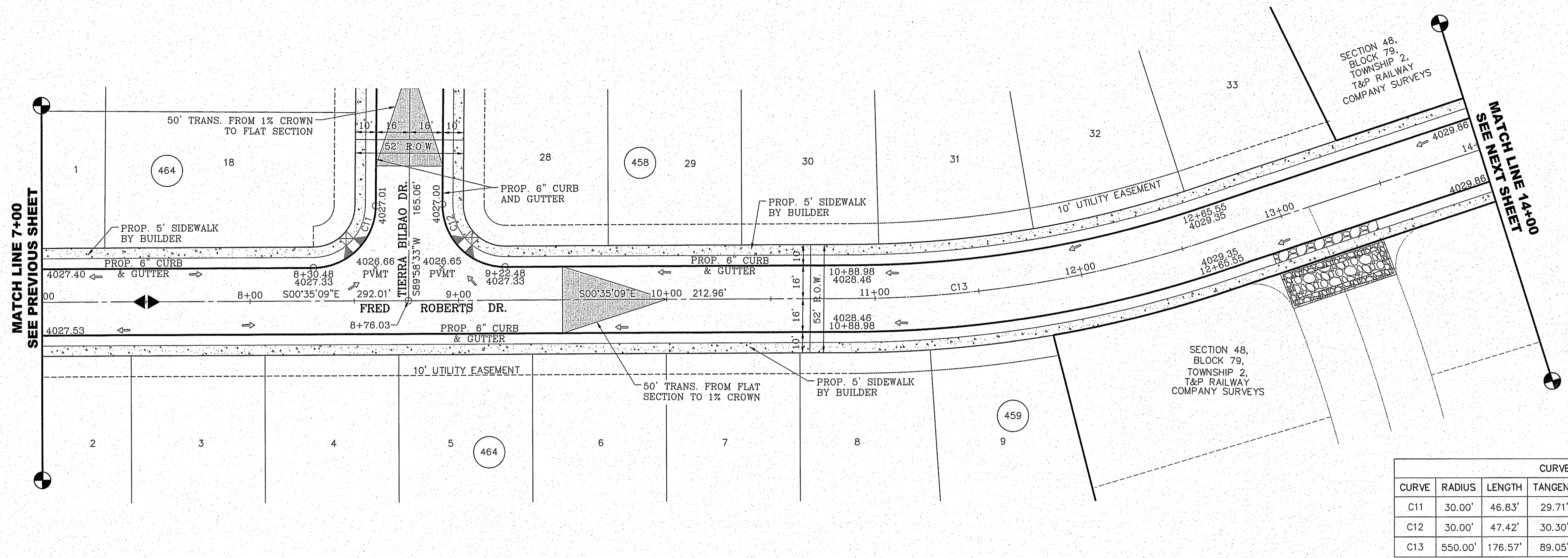


CONDE INC.
ENGINEERING / PLANNING
SURVEYING / GPS
6060 SURETY DR. STE 100
EL PASO, TEXAS 79905
PHONE: (915) 592-0283
FAX: (915) 592-0286



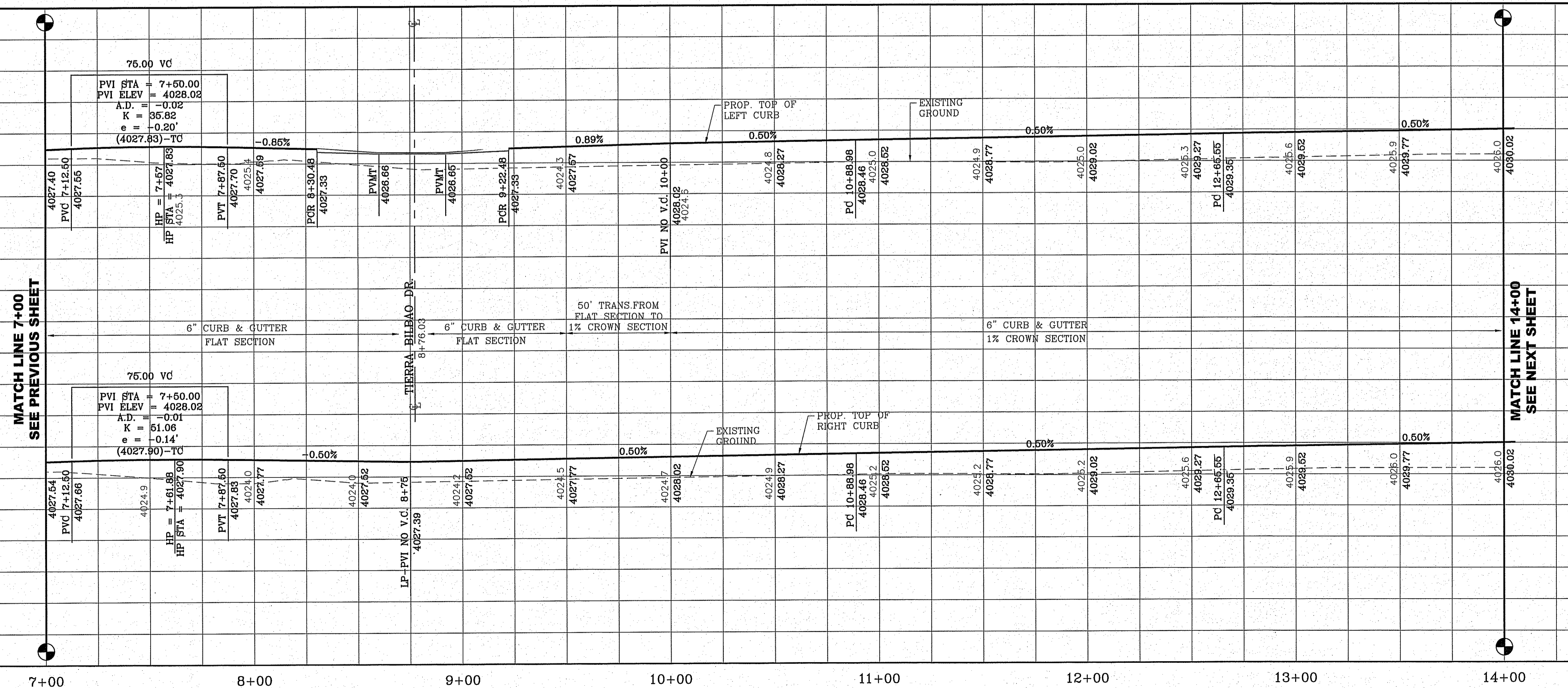
SHEET TITLE
**STREET
PLAN-PROFILE**
**FRED ROBERTS
DR.**
STA: 0+00 TO
STA: 7+00

FILE LOCATION S:\Subdivisions\TDE 73\DWG\PP-ROBERTS PLOTTED ON Tuesday, October 11, 2016 4:53:15 PM BY ESTEBAN JUAREZ



SCALE: 1" = 30'

CURVE TABLE						
CURVE	RADIUS	LENGTH	TANGENT	CHORD	BEARING	DELTA
C11	30.00'	46.83'	29.71'	42.22'	N45°18'18"W	89°26'17"
C12	30.00'	47.42'	30.30'	42.63'	N44°41'42"E	90°33'43"
C13	550.00'	176.57'	89.05'	175.81'	N9°46'59"W	18°23'38"

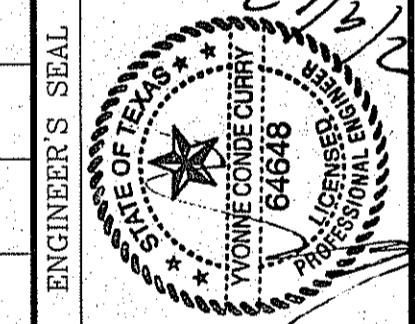


Final Approval

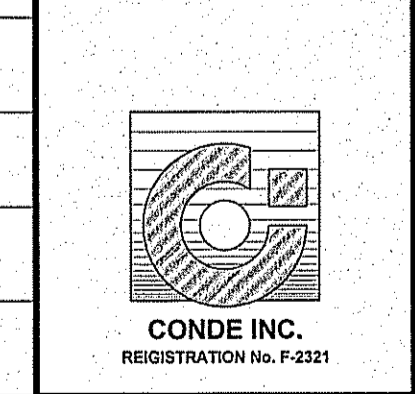
BENCHMARK	CITY MONUMENT AT THE CENTERLINE INTERSECTION OF SADDLEHORN PL. AND HOLLY SPRINGS AVE. ELEVATION 4024.74
DATE	05/05/16
REVISIONS	CITY REDLINES AS PER 03/31/16 COMMENTS E.J.
BY	

TIERRA DEL ESTE UNIT 73
 BEING PORTION OF SECTION 48, BLOCK 79, TOWNSHIP 2, TEXAS AND EL PASO COUNTY, TEXAS
 CONTAINING: 52.766± ACRES

SCALE
 HORIZ: 1" = 40.00'
 VERT: 1" = 10.00'
 DATE: OCT. 2014
 DESIGN BY: Y.C.
 INITIATED BY: R.R.
 CHECKED BY: Y.C.
 JOB NO.: 1013-23

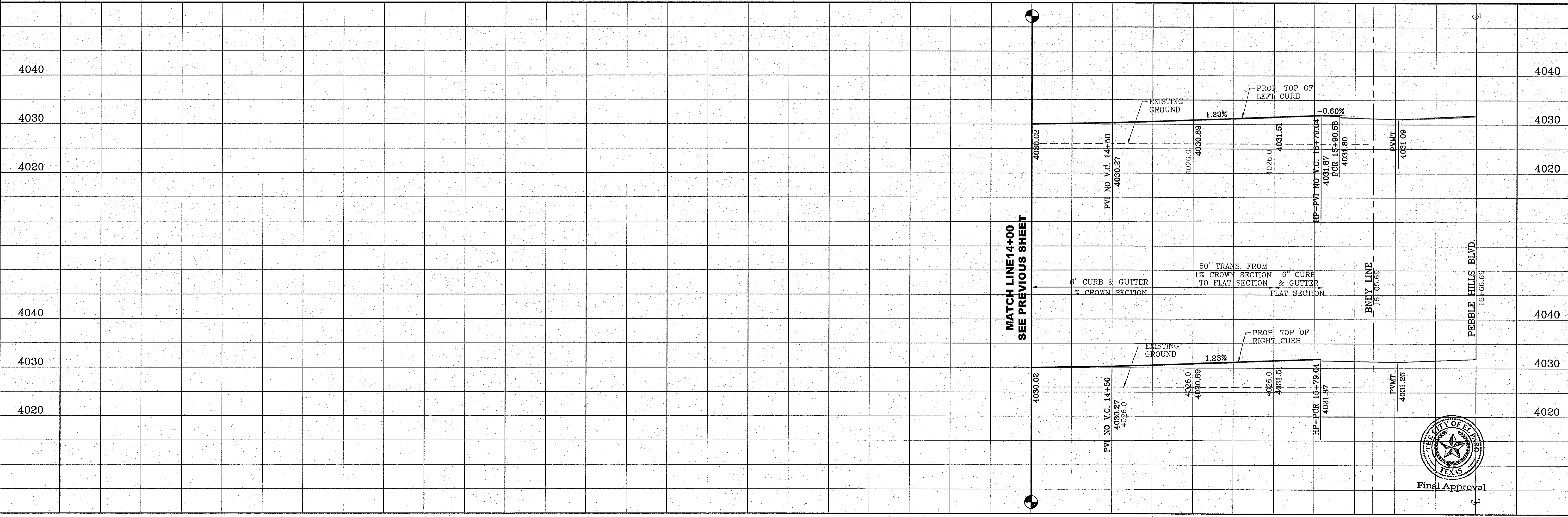


CONDE INC.
 ENGINEERING / PLANNING
 SURVEYING / GPS
 6090 SURETY DR. STE 100
 EL PASO, TEXAS 79905
 PHONE: (915) 592-0283
 FAX: (915) 592-0286

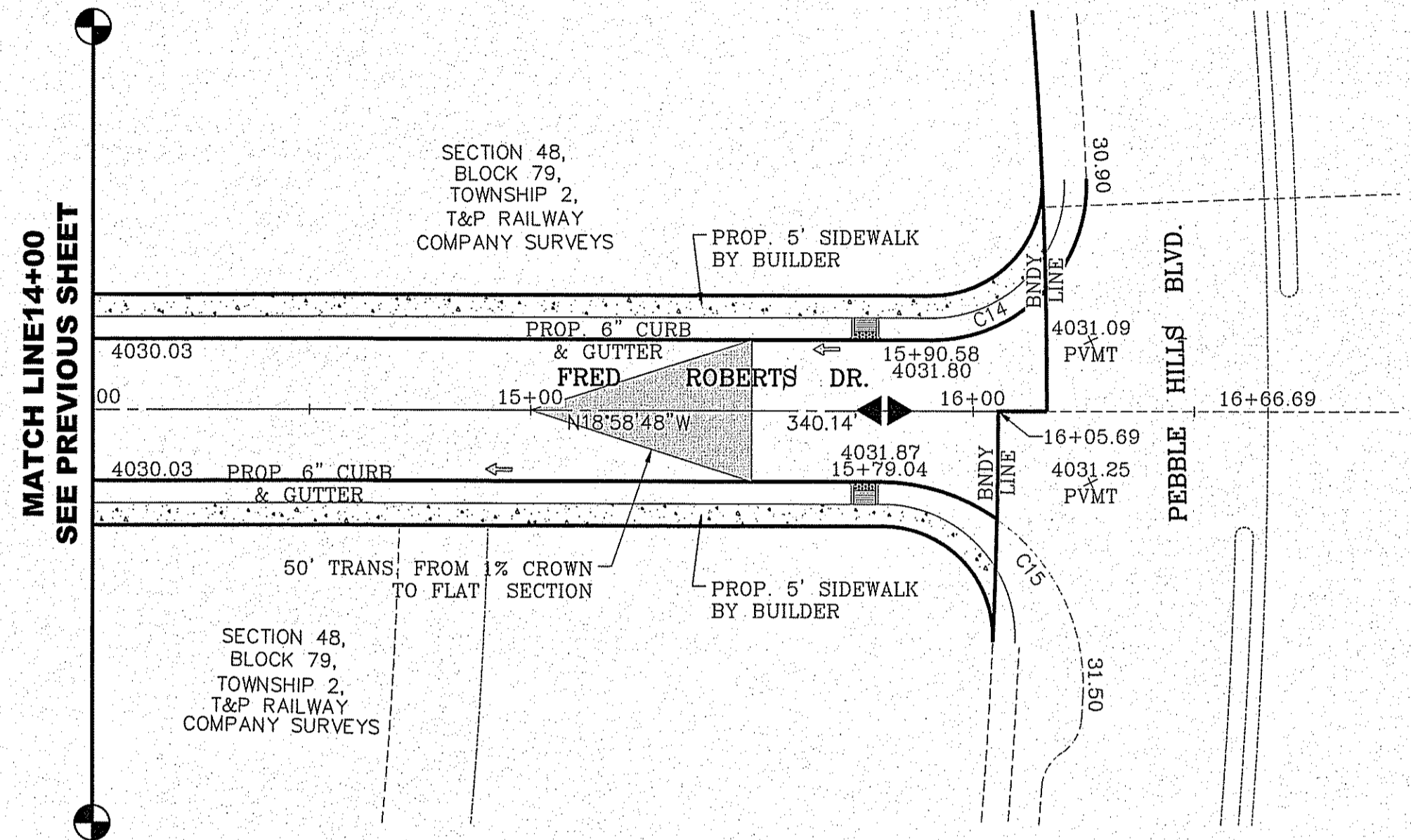
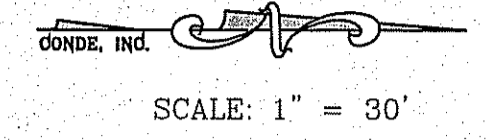


SHEET TITLE
 STREET
 PLAN-PROFILE
FRED ROBERTS DR.
 STA: 7+00 TO
 STA: 14+00

FILE LOCATION S:\Subdivisions\TDE 73\DWG\PP-ROBERTS PLOTTED ON Tuesday, October 11, 2016 4:53:25 PM BY ESTEBAN JUAREZ



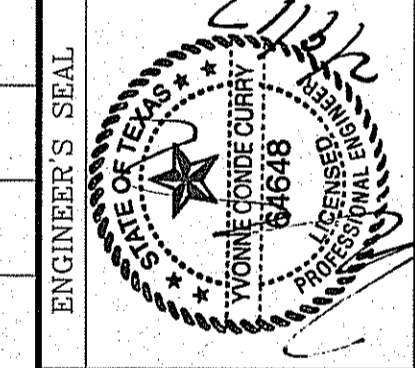
CURVE TABLE						
CURVE	RADIUS	LENGTH	TANGENT	CHORD	BEARING	DELTA
C14	35.00'	56.50'	36.55'	50.56'	N65°13'26"W	92°29'16"
C15	46.00'	74.71'	48.52'	66.76'	S27°32'48"W	93°03'12"



BENCHMARK	
CITY MONUMENT AT THE CENTERLINE INTERSECTION OF	
US HWY 73 AND HOLLY SPRING	
ELEVATION 4024.74 NAVD83 DATUM
DATE	REVISIONS
05/05/16	CITY REDLINES AS PER 03/31/16 COMMENTS
BY	E.J.

PROJECT NAME
TIERRA DEL ESTE UNIT 73
BEING PORTION OF SECTION 48, BLOCK 79, TOWNSHIP 2,
TEXAS AND PACIFIC RAILWAY CO. SURVEYS,
CONTAINING: .52766± ACRES

SCALE
HORIZ: 1" = 80.00'
VERT: 1" = 10.00'
DATE: OCT. 2014
DESIGN BY: Y.C.
INITIATED BY: R.R.
CHECKED BY: Y.C.
JOB NO.: 1013-23

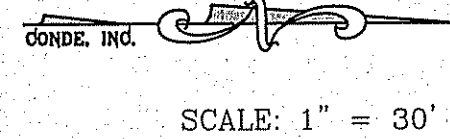


CONDE INC.
ENGINEERING / PLANNING
SURVEYING / GPS
6080 SURETY DR. STE 100
EL PASO, TEXAS 79905
PHONE: (915) 592-0283
FAX: (915) 592-0286

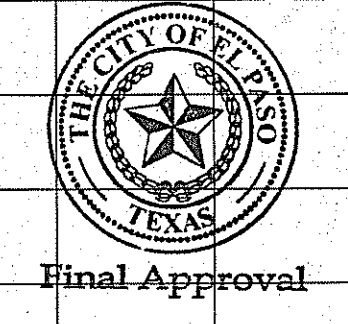
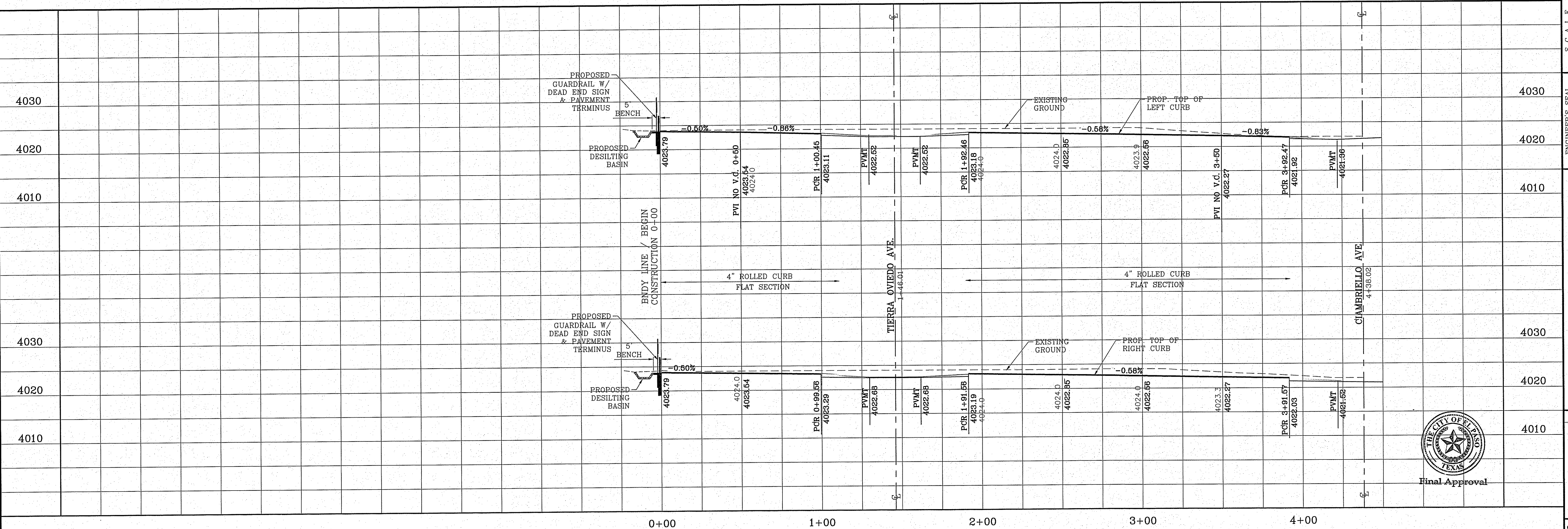
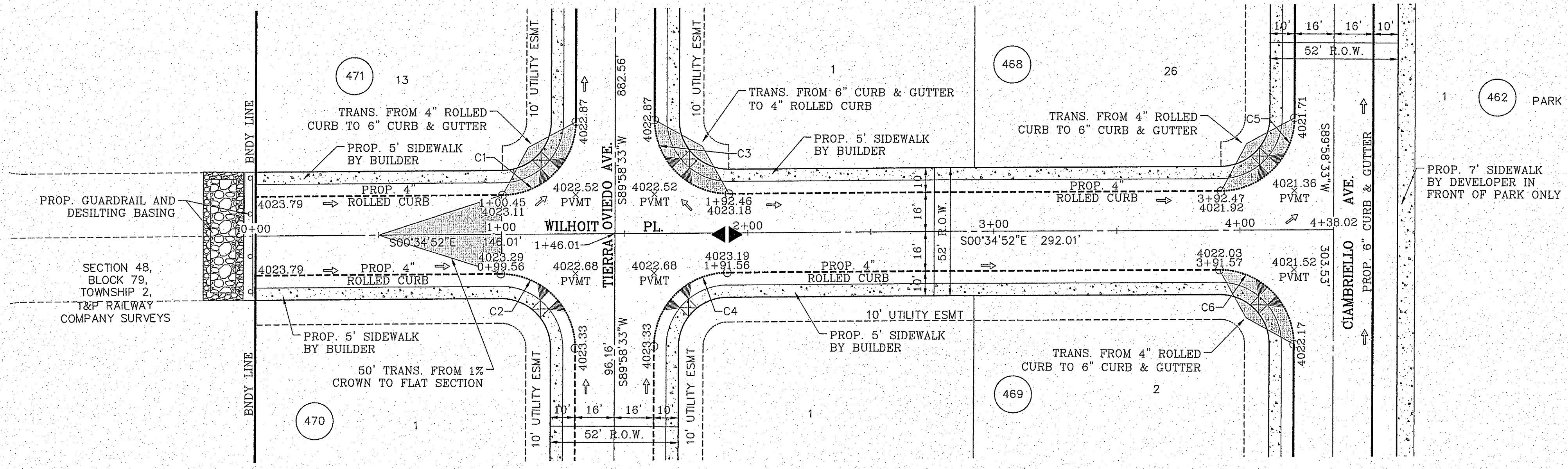
SHEET TITLE
STREET
PLAN-PROFILE
FRED ROBERTS DR.
STA: 14+00 TO
STA: 16+05.69

FILE LOCATION S:\Subdivisions\DE 73.DWG\PP-WILHOIT PLOTTED ON Tuesday, October 11, 2016 4:54:06 PM BY ESTEBAN JUAREZ

CURVE TABLE						
CURVE	RADIUS	LENGTH	TANGENT	CHORD	BEARING	DELTA
C1	30.00'	46.83'	29.71'	42.22'	N45°18'10"W	89°26'35"
C2	30.00'	47.42'	30.29'	42.63'	S44°41'50"W	90°33'25"
C3	30.00'	47.42'	30.29'	42.63'	N44°41'50"E	90°33'25"
C4	30.00'	46.83'	29.71'	42.22'	S45°18'10"E	89°26'35"
C5	30.00'	46.83'	29.71'	42.22'	N45°18'10"W	89°26'35"
C6	30.00'	47.42'	30.29'	42.63'	S44°41'50"W	90°33'25"



SCALE: 1" = 30'



Final Approval

BENCHMARK	CITY MONUMENT AT THE CENTERLINE INTERSECTION OF SADDLEHORN PL. AND HOLLY SPRINGS AVE. ELEVATION 4024.74
DATE	05/05/16
REVISIONS	CITY REVISIONS AS PER 03/31/16 COMMENTS
BY	E.J.

PROJECT NAME
Tierra del Este Unit 73
 BRING PORTION OF SECTION 48, BLOCK 79, TOWNSHIP 2, TEXAS AND PACIFIC RAILWAY CO. SURVEYS, EL PASO COUNTY, TEXAS CONTAINING: 52.766± ACRES

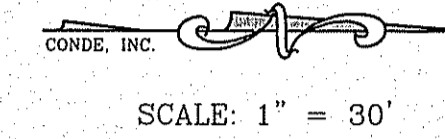
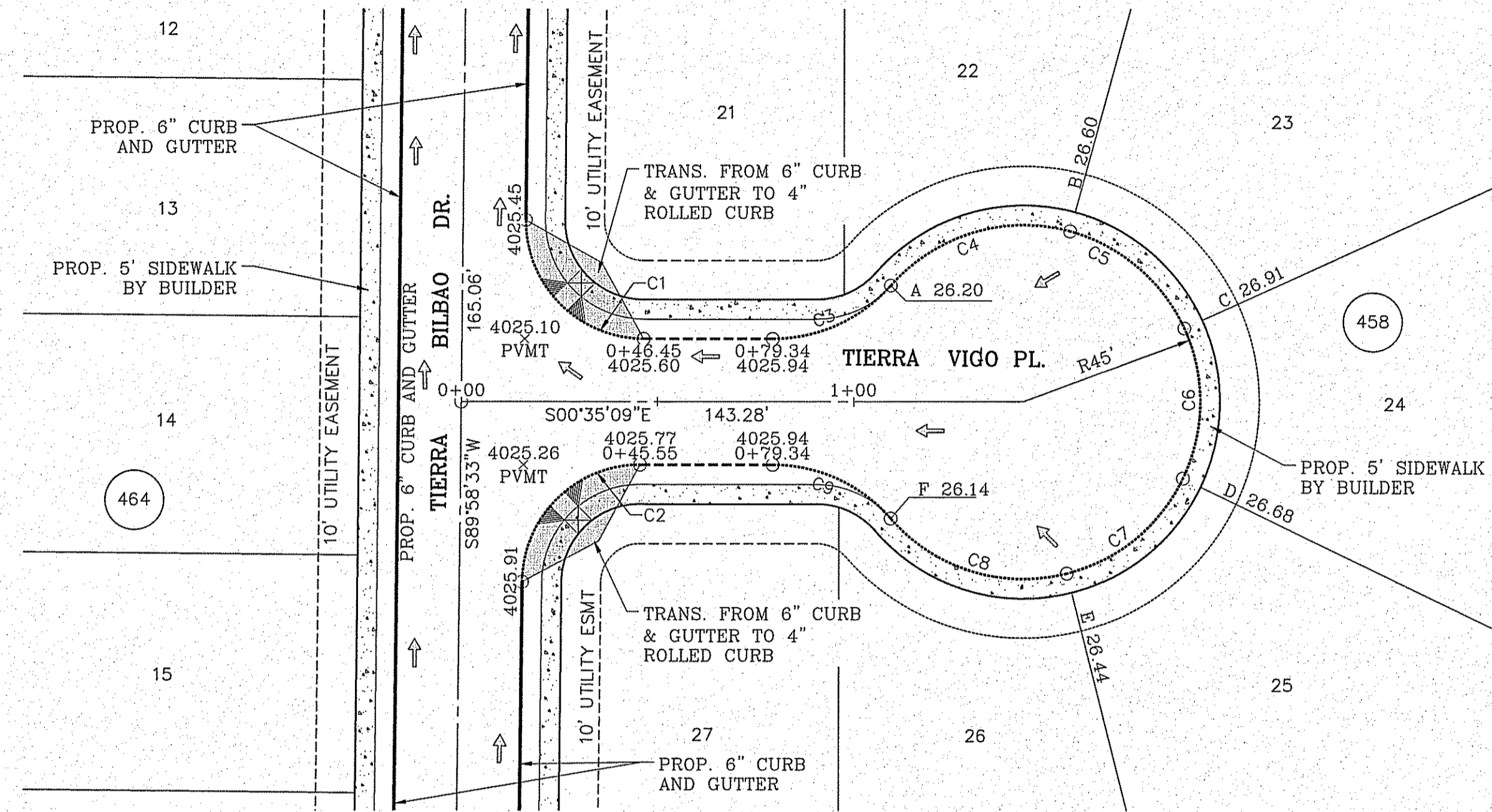
ENGINEER'S SEAL
 HORIZ: 1" = 800'
 VERT: 1" = 10'
 DATE: OCT. 2014
 DESIGN BY: Y.C.
 INITIATED BY: R.E.
 CHECKED BY: Y.C.
 JOB NO.: 1013-23

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

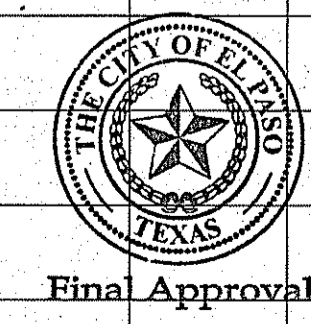
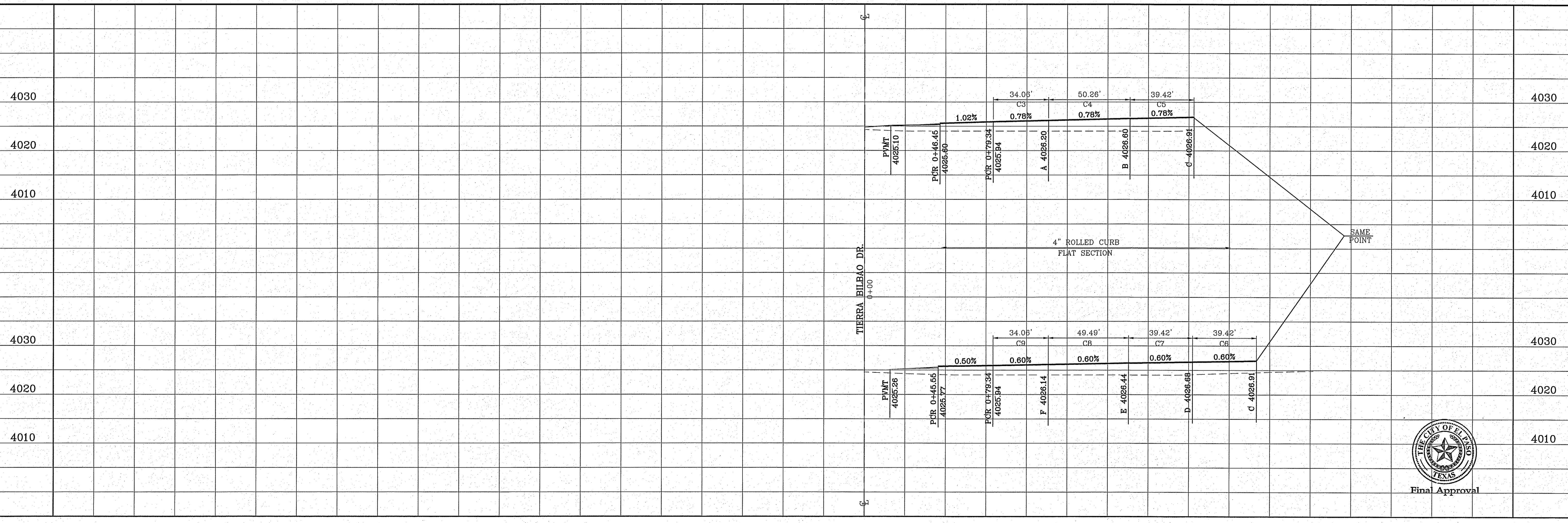
SHEET TITLE
STREET PLAN-PROFILE
WILHOIT PL. IN ITS ENTIRETY

FILE LOCATION S:\Subdivisions\TDE 73\DWG\PP-VIGO PLOTTED ON Tuesday, October 11, 2016 4:54:35 PM BY ESTEBAN JUAREZ

CURVE TABLE						
CURVE	RADIUS	LENGTH	TANGENT	CHORD	BEARING	DELTA
C1	30.00'	47.42'	30.30'	42.63'	N44°41'42"E	90°33'43"
C2	30.00'	46.83'	29.71'	42.22'	S45°18'18"E	89°26'17"
C3	40.00'	34.06'	18.14'	33.04'	N24°58'51"W	48°47'23"
C4	45.00'	50.26'	28.12'	47.69'	S17°22'44"E	63°59'38"
C5	45.00'	39.42'	21.08'	38.17'	S39°42'49"W	50°11'28"
C6	45.00'	39.42'	21.08'	38.17'	S89°54'17"W	50°11'28"
C7	45.00'	39.42'	21.08'	38.17'	N39°54'15"W	50°11'28"
C8	45.00'	49.49'	27.58'	47.03'	N16°41'51"E	63°00'45"
C9	40.00'	34.06'	18.14'	33.04'	S23°48'32"W	48°47'23"



SCALE: 1" = 30'

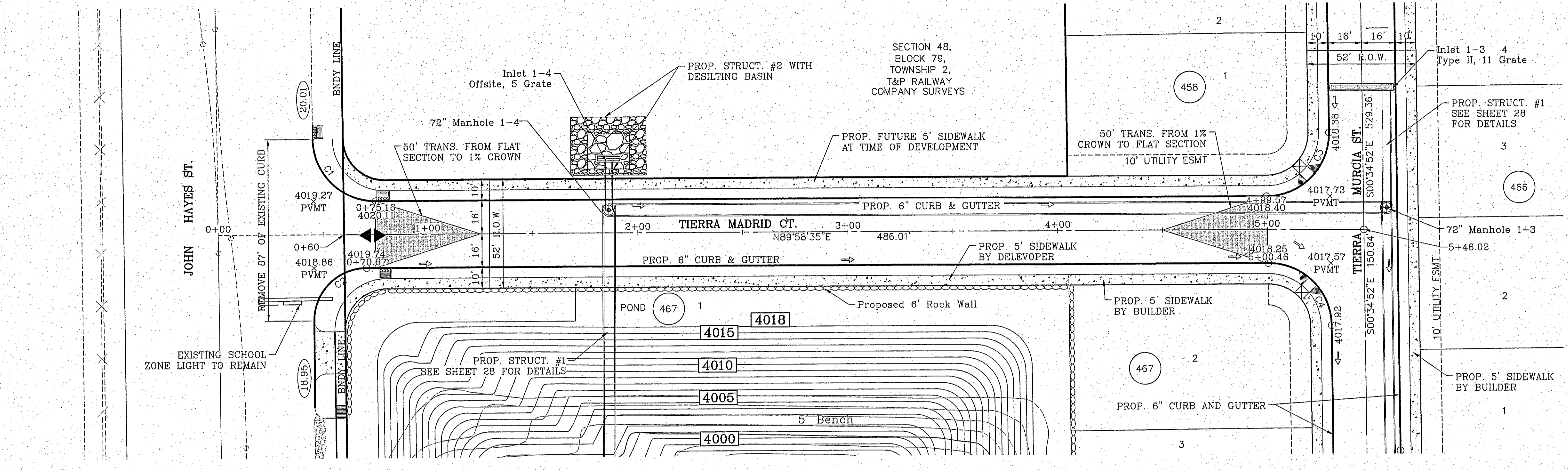


<p>BENCHMARK CITY MONUMENT AT THE CENTERLINE INTERSECTION OF SADDLEHORN PL. AND HOLLY SPRINGS AVE. ELEVATION 4024.74</p>	<p>PROJECT NAME TIERRA DEL ESTE UNIT 73 BEING PORTION OF SECTION 48, BLOCK 79, TOWNSHIP 2, RANGE 10N, COUNTY OF PASO COUNTY, TEXAS, CONTAINING: 52.766± ACRES</p>	<p>DATE 05/05/16</p> <p>REVISIONS CITY REDLINES AS PER 03/31/16 COMMENTS E.J.</p>
<p>SCALE HORIZ. 1" = 40.00' VERT. 1" = 10.00' DATE: OCT. 2014 DESIGN BY: Y.C. INITIATED BY: R.R. CHECKED BY: Y.C. JOB NO.: 1013-23</p>		
<p>CONDE INC. ENGINEERING / PLANNING SURVEYING / GPS 6080 SURETY DR. STE 100 EL PASO, TEXAS 79905 PHONE: (915) 592-0283 FAX: (915) 592-0286</p>		
<p>SHEET TITLE TIERRA VIGO PL. IN ITS ENTIRETY</p>		
<p>SHT 25 OF 39</p>		

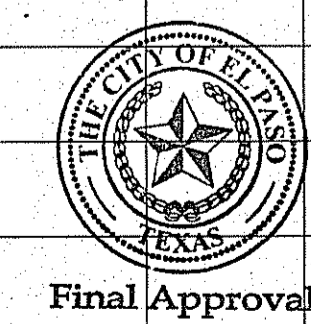
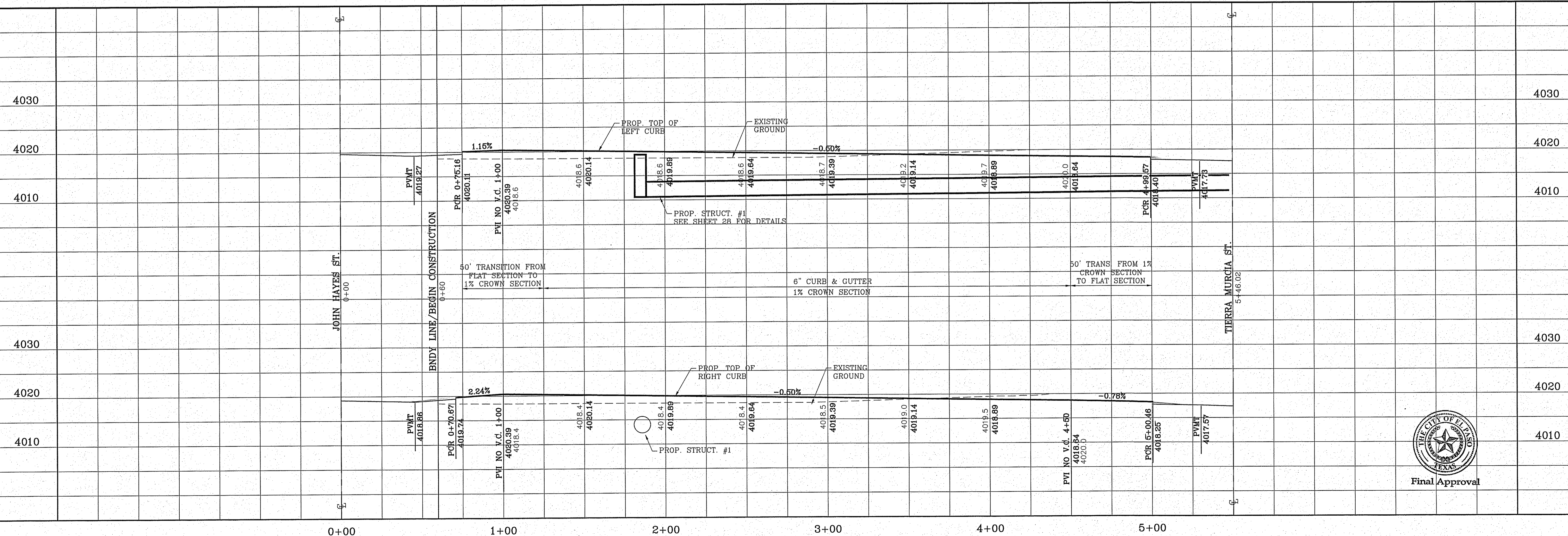
FILE LOCATION S:\Subdivisions\73\DWG\PP-MADRID PLOTTED ON Tuesday, October 11, 2016 4:55:05 PM BY ESTEBAN JUAREZ

CURVE TABLE						
CURVE	RADIUS	LENGTH	TANGENT	CHORD	BEARING	DELTA
C1	30.00'	46.70'	29.58'	42.13'	S45°25'35"E	89°11'41"
C2	25.00'	39.35'	25.08'	35.41'	S44°52'50"W	90°11'30"
C3	30.00'	47.42'	30.29'	42.63'	N44°41'51"E	90°33'27"
C4	30.00'	46.83'	29.71'	42.22'	N45°18'09"W	89°26'33"

SCALE: 1" = 30'

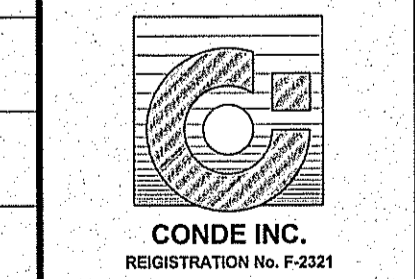


○ DENOTES AS-BUILT CONDITION



ENGINEER'S SEAL
 CONDE INC.
 ENGINEERING / PLANNING
 SURVEYING / GFS
 6090 SURETY DR. STE 100
 EL PASO, TEXAS 79905
 PHONE: (915) 592-0283
 FAX: (915) 592-0286

CONDE INC.
 ENGINEERING / PLANNING
 SURVEYING / GFS
 6090 SURETY DR. STE 100
 EL PASO, TEXAS 79905
 PHONE: (915) 592-0283
 FAX: (915) 592-0286

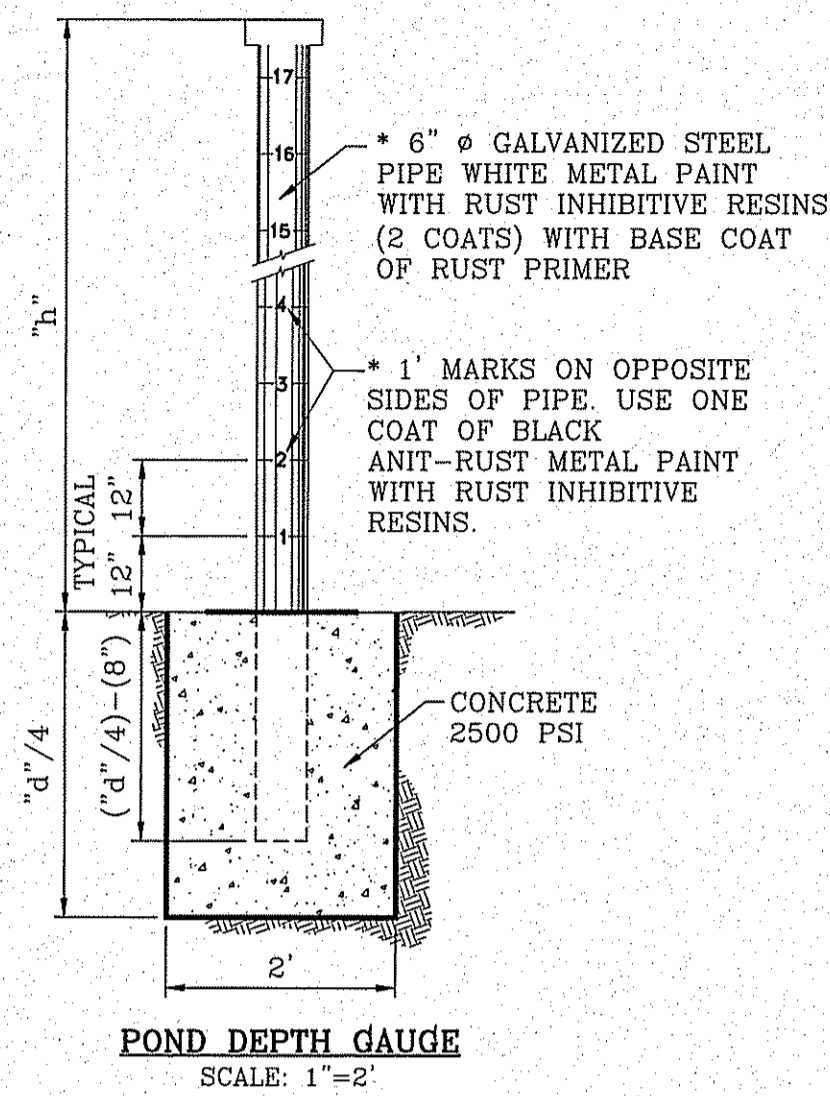


Final Approval
 SHEET TITLE
 STREET
 PLAN-PROFILE
TIERRA MADRID CT.
 IN ITS ENTIRETY

BENCHMARK
 CITY MONUMENT AT THE CENTERLINE INTERSECTION OF
 SADDLEHORN PL. AND HOLLY SPRINGS AVE.
 ELEVATION 4024.74
 DATE 05/05/16
 CITY REDLINES AS PER 03/31/16 COMMENTS
 E.J.

PROJECT NAME
TIERRA DEL ESTE UNIT 73
 BEING PORTION OF SECTION 48, BLOCK 79, TOWNSHIP 2,
 TEXAS AND EL PASO COUNTY, TEXAS
 SURVEYS,
 CONTAINING: 52.766± ACRES

SCALE
 HORIZ: 1" = 660'
 VERT: 1" = 10'
 DATE: OCT. 2014
 DESIGN BY: Y.C.
 INITIATED BY: R.R.
 CHECKED BY: Y.C.
 JOB NO.: 1013-23

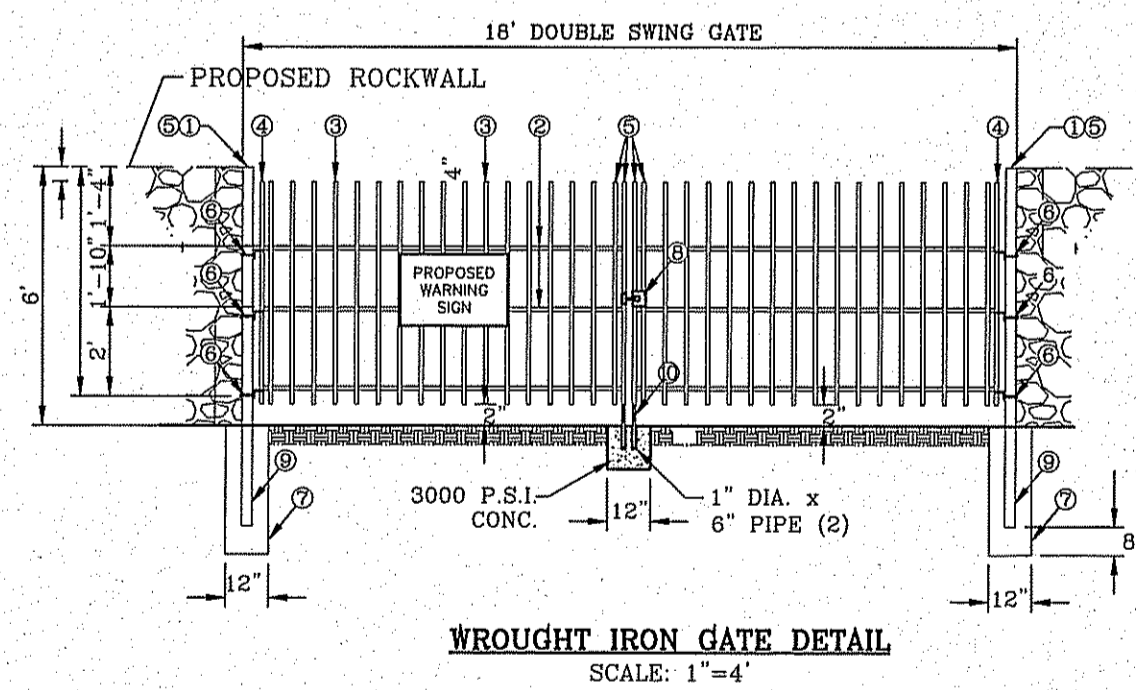


- * NOTES**
 1. CONSULT WITH PAINT MANUFACTURER FOR PRODUCTS THAT CAN SUSTAIN LONG PERIODS OF MOISTURE.
 2. "d"=DEPTH

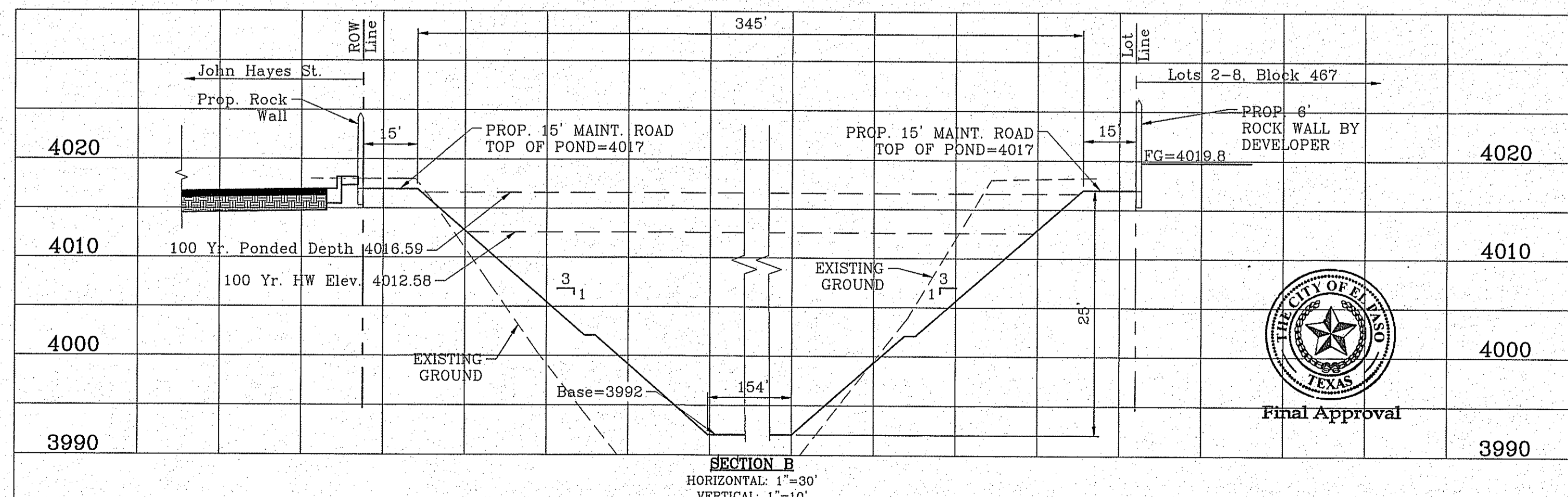
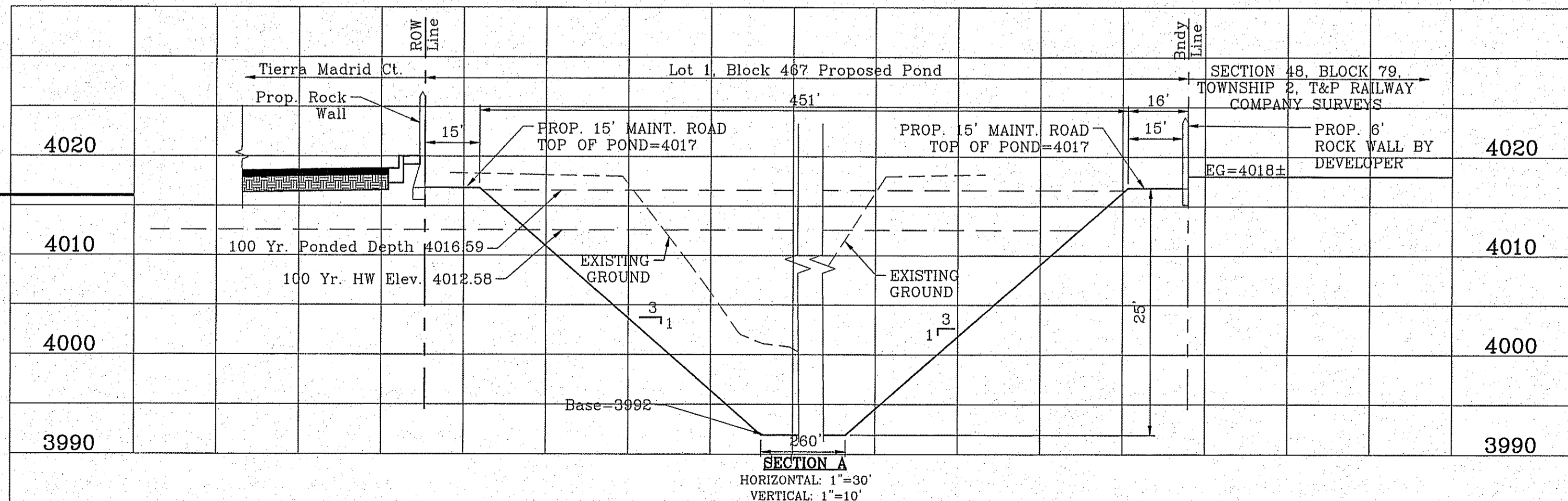
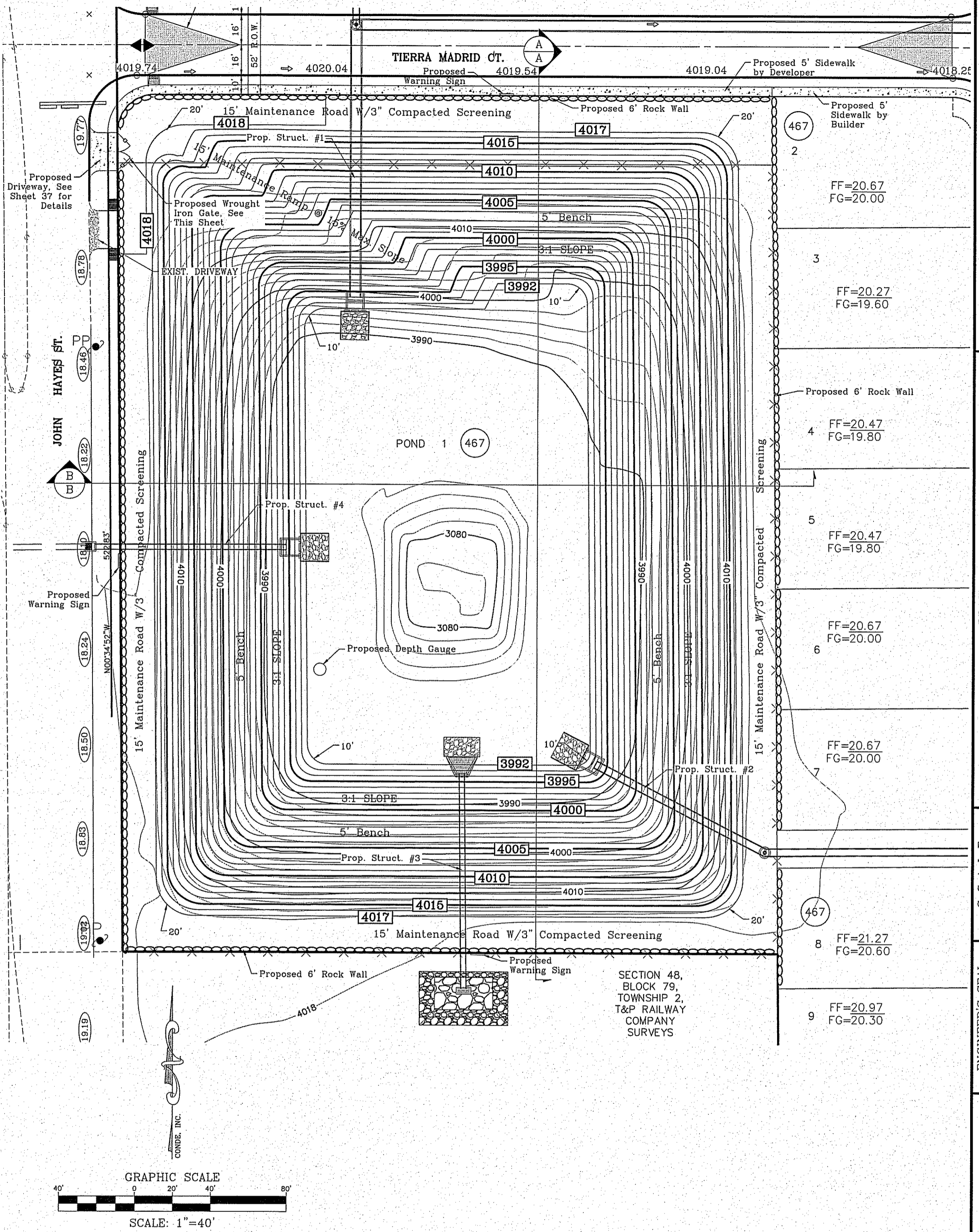
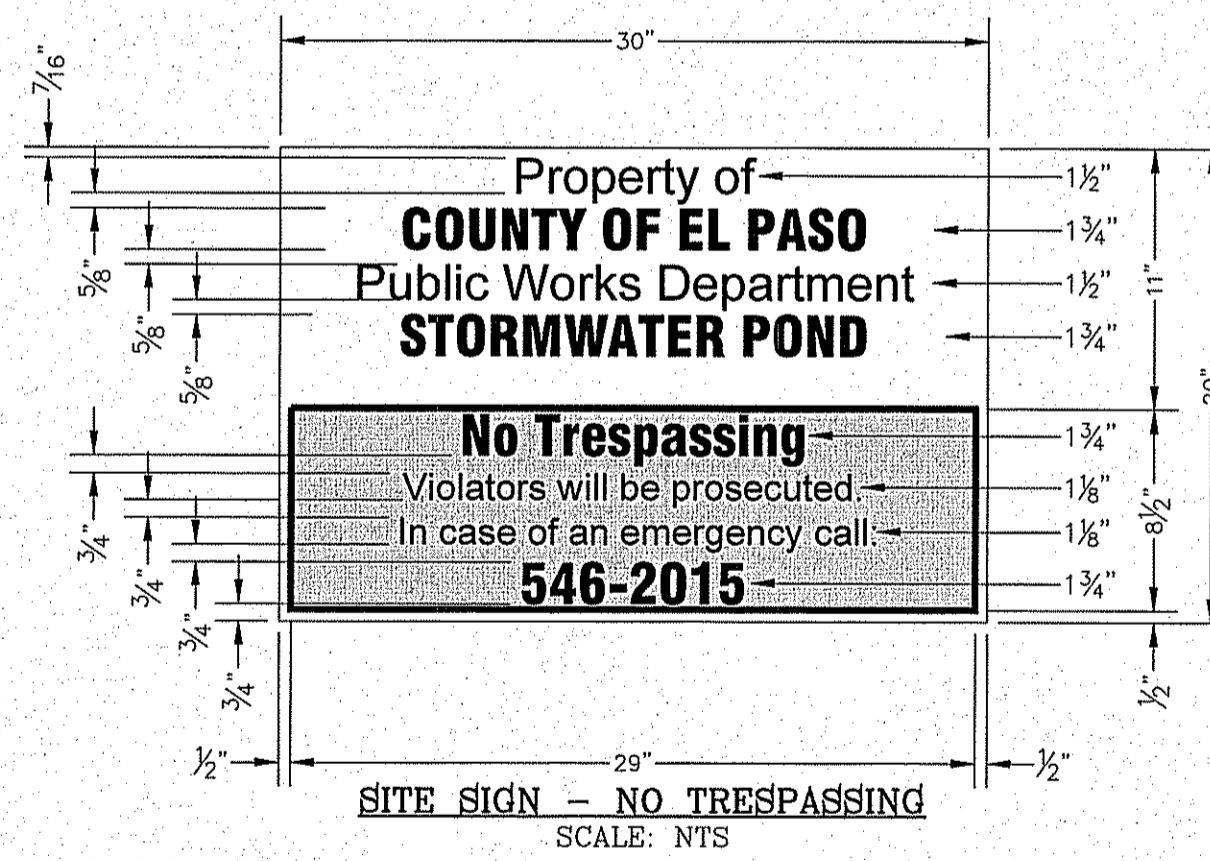
STAGE STORAGE TABLE			
ELEV	AREA (sq. ft.)	CONIC INC. VOL. (cu. ft.)	CONIC TOTAL VOL. (cu. ft.)
3,978.000	573.44	N/A	0.00
3,980.000	2,203.82	0.06	0.06
3,982.000	3,229.51	0.12	0.18
3,984.000	4,471.51	0.18	0.36
3,986.000	5,912.13	0.24	0.60
3,988.000	7,844.65	0.31	0.91
3,992.000	36,295.36	1.87	2.78
3,993.000	38,786.85	0.86	3.64
3,994.000	41,343.16	0.92	4.56
3,995.000	43,968.74	0.98	5.54
3,996.000	46,663.56	1.04	6.58
3,997.000	49,430.03	1.10	7.68
3,998.000	52,267.99	1.17	8.85
3,999.000	55,177.67	1.23	10.08
4,000.000	58,159.34	1.30	11.38
4,001.000	61,212.83	1.37	12.75
4,002.000	64,339.72	1.44	14.20
4,003.000	67,544.52	1.51	15.71
4,003.000	73,033.32	0.00	15.71
4,004.000	76,420.84	1.72	17.42
4,005.000	79,889.89	1.79	19.22
4,006.000	83,431.43	1.87	21.09
4,007.000	87,042.55	1.96	23.05
4,008.000	90,729.68	2.04	25.09
4,009.000	94,486.63	2.13	27.22
4,010.000	98,319.02	2.21	29.43
4,011.000	102,219.67	2.30	31.73
4,012.000	106,194.75	2.39	34.12
4,013.000	110,241.11	2.48	36.61
4,014.000	114,358.74	2.58	39.18
4,015.000	118,548.98	2.67	41.86
4,016.000	122,811.03	2.77	44.63
4,017.000	127,146.79	2.87	47.50

POND CALCULATIONS 3:1 SLOPE	
$QT = \frac{A R C}{12} = AC-FT$	
QT = Cubic Feet Per Second	
A = 100% of Contributing Watershed Area in Acres	
R = Rainfall in Inches	
C = Runoff Factor	
PROP. TDE-73 AND POND*	$\frac{49.72(4)0.60}{12} = 9.94 \text{ ac-ft}$
FUTURE DEVELOPMENT	$\frac{69.24(4)0.60}{12} = 13.85 \text{ ac-ft}$
FUTURE COMMERCIAL	$\frac{19.90(4)0.95}{12} = 6.30 \text{ ac-ft}$
EXISTING DEVELOPMENT	$\frac{17.27(4)0.95}{12} = 5.47 \text{ ac-ft}$
35.56 ac-ft	
SILT & DEBRIS	1.87 ac-ft
25% EMERGENCY	8.89 ac-ft
TOTAL = 46.32 ac-ft	
Qreq (TOTAL)	= 46.32
Qcap (TOTAL)	= 47.50
100 YEAR HW ELEVATION = 4012.58	
100 YEAR PONDED DEPTH = 4016.69	
* NOT INCLUDED PARKS AREA	

- 3"x3"x3/16" SQUARE STEEL TUBING
- 2"x1"x1/4" GA. RECTANGULAR STEEL TUBING
- 1 1/2"x1/2"x16 GA. RECTANGULAR STEEL TUBING
- 2"x1"x10 GA. RECTANGULAR STEEL TUBING
- FLAT TOP POLYVINYL CAP
- BOLT HOOK AND STRAP HINGE
- 1"x3" DEEP 3000 PSI CONCRETE POST FOOTING
- DOUBLE GATE HEAVY DUTY INDUSTRIAL LATCH W/PAD LOCK
- 5"x5"x3/8" SQUARE STEEL SLEEVE W/7"x7"x3/8" STEEL BASE PLATE
- CANE BOLT LATCH W/KEEPER 5-8" x18" LONG (2 REQUIRED)



- GENERAL NOTES:**
 1. SIGN MATERIAL TO BE 16 GAUGE GALVANIZED SHEET METAL.
 2. TOP PART OF SIGN SHALL SHOW BLACK LETTERS ON A WHITE BACKGROUND.
 3. BOTTOM PART OF SIGN SHALL SHOW WHITE LETTERS ON A BLACK BACKGROUND.



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

TIERRA DEL ESTE UNIT 73
 BEING PORTION OF SECTION 48, BLOCK 79, TOWNSHIP 2, TEXAS AND PACIFIC RAILWAY CO. SURVEYS, EL PASO COUNTY, TEXAS SURVEYS, CONTAINING: 52.766± ACRES

PROPOSED POND WITH SECTIONS

SHT 27 OF 39

FILE LOCATION S:\Subdivisions\TDE 73.DWG\STRUCTURES PLOTTED ON Tuesday, October 11, 2016 4:56:02 PM BY ESTEBAN JUAREZ

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

PIPE	SECTION SIZE (in)	LENGTH (ft)	SLOPE (ft/ft)	DISCHARGE (cfs)	CAPACITY (cfs)	AVERAGE VELOCITY (fps)	DOWN STREAM GROUND	DOWN STREAM HGL	DOWN STREAM INVERT	UPSTREAM GROUND	UPSTREAM HGL	UPSTREAM INVERT
1-1	42	212.00	0.0071	57.12	84.62	5.96	4020.00	4019.85	4014.00	4021.07	4020.54	4015.50
1-2	42	500.00	0.0051	57.12	71.85	5.94	4017.50	4017.44	4011.45	4020.00	4019.05	4014.00
1-3	42	75.00	0.0193	57.12	139.88	5.94	4016.70	4010.00	4017.50	4016.94	4011.45	
1-4	48	150.00	0.0067	105.86	117.28	8.42	4019.40	4015.78	4009.00	4016.70	4016.58	4010.00
1-5	60	371.00	0.0054	160.07	191.21	8.15	4019.40	4013.56	4007.00	4019.40	4014.96	4009.00
1-6	60	141.00	0.1064	215.13	849.42	10.96	4010.00	4013.08	3993.00	4019.40	4012.86	4007.00
1-7	36	24.00	0.1250	55.07	235.80	7.79	4019.40	4013.56	4007.00	4018.39	4013.73	4010.00
1-8	36	57.00	0.0526	54.20	153.01	7.67	4019.40	4015.76	4009.00	4017.90	4016.40	4012.00

ALL PIPE ARE CLASS III RCP UNLESS OTHERWISE NOTED OR TRIPLE WALL SANITITE HP

SEE SHEET 32 FOR ALL SANITARY SEWER AND STORM STRUCTURE CROSSING DETAILS

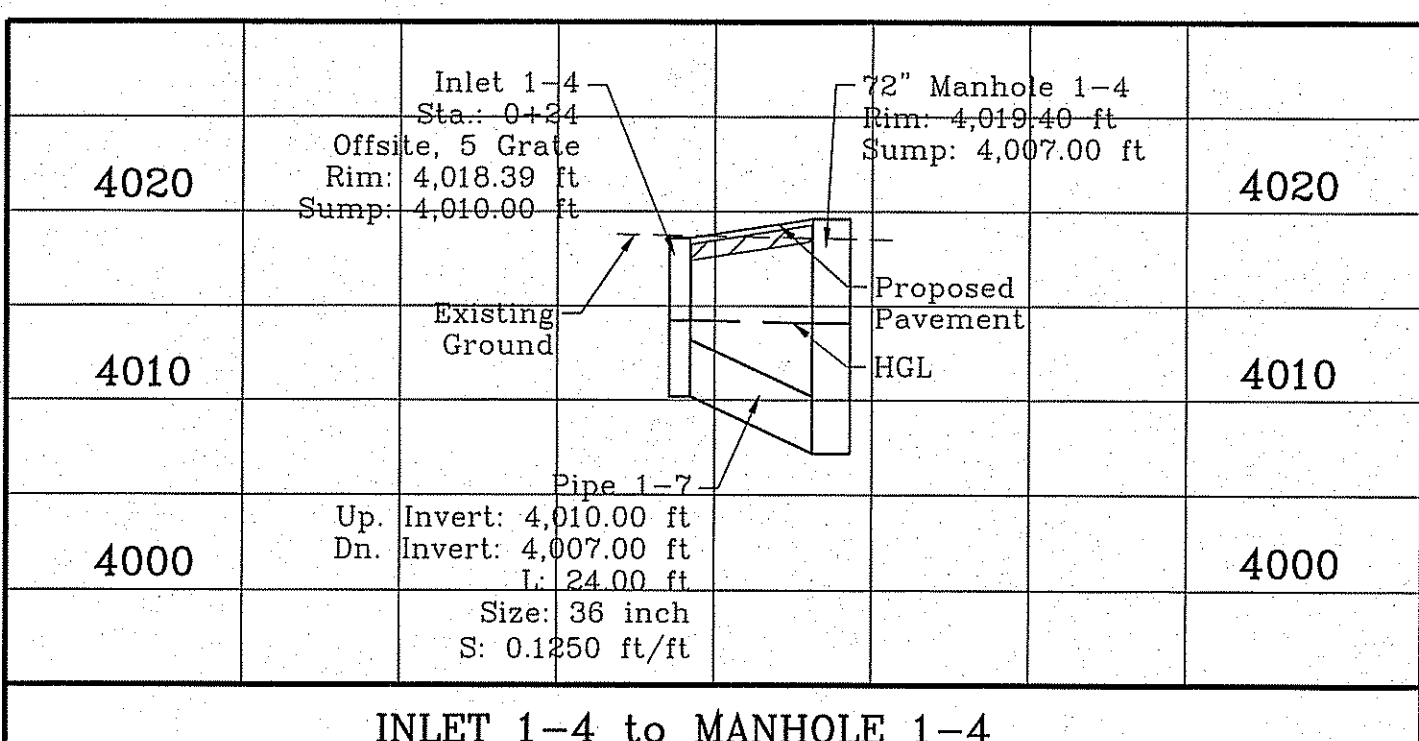
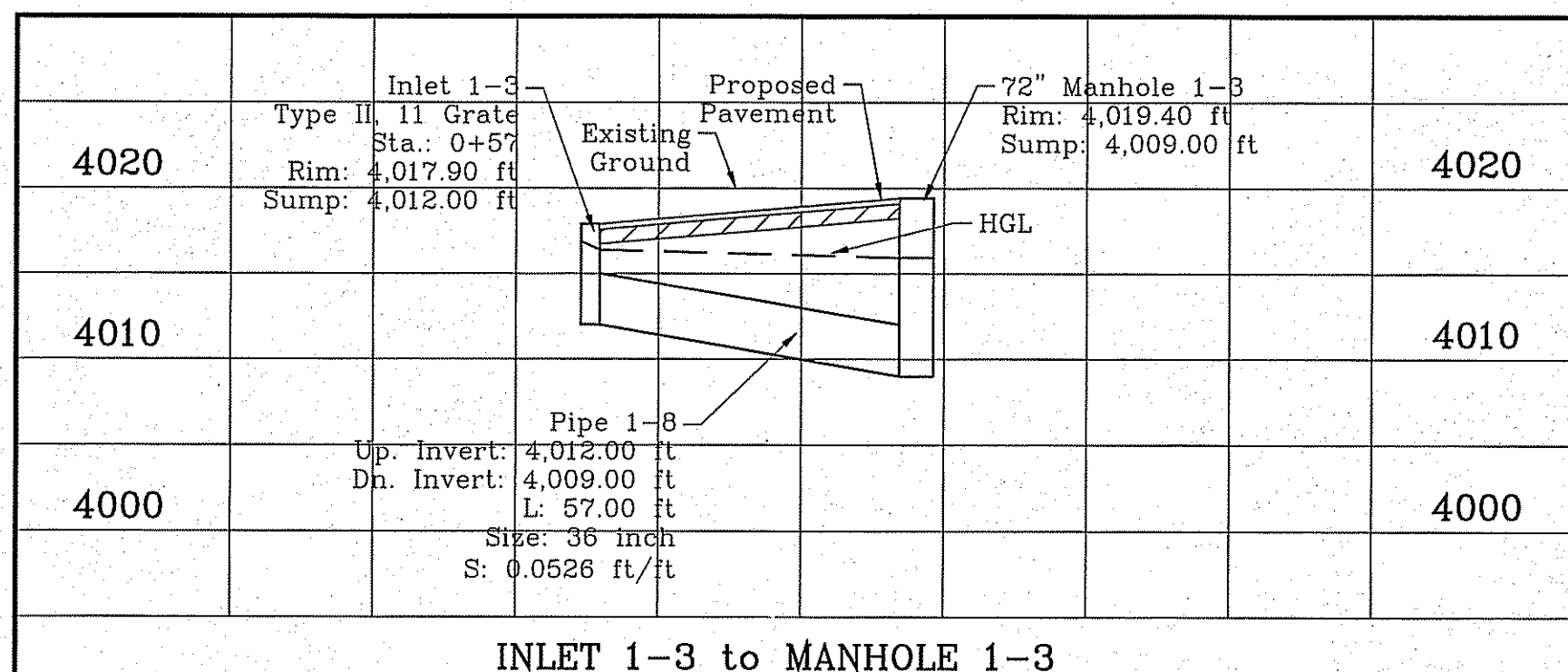
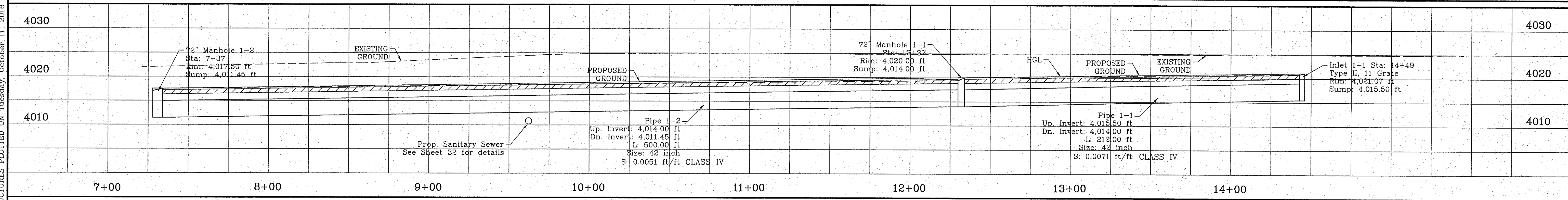
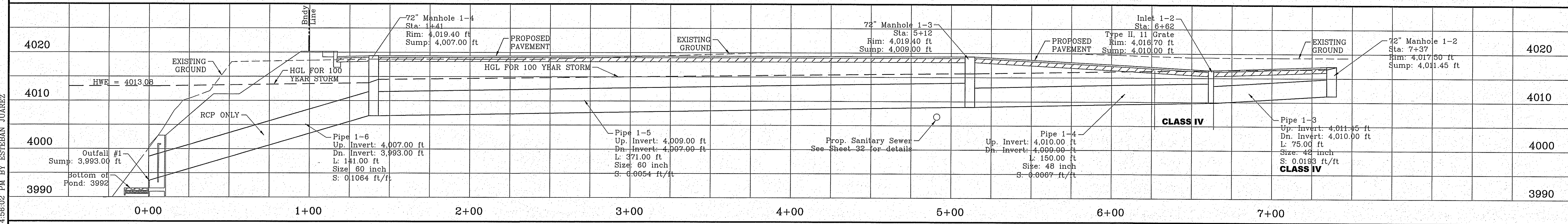
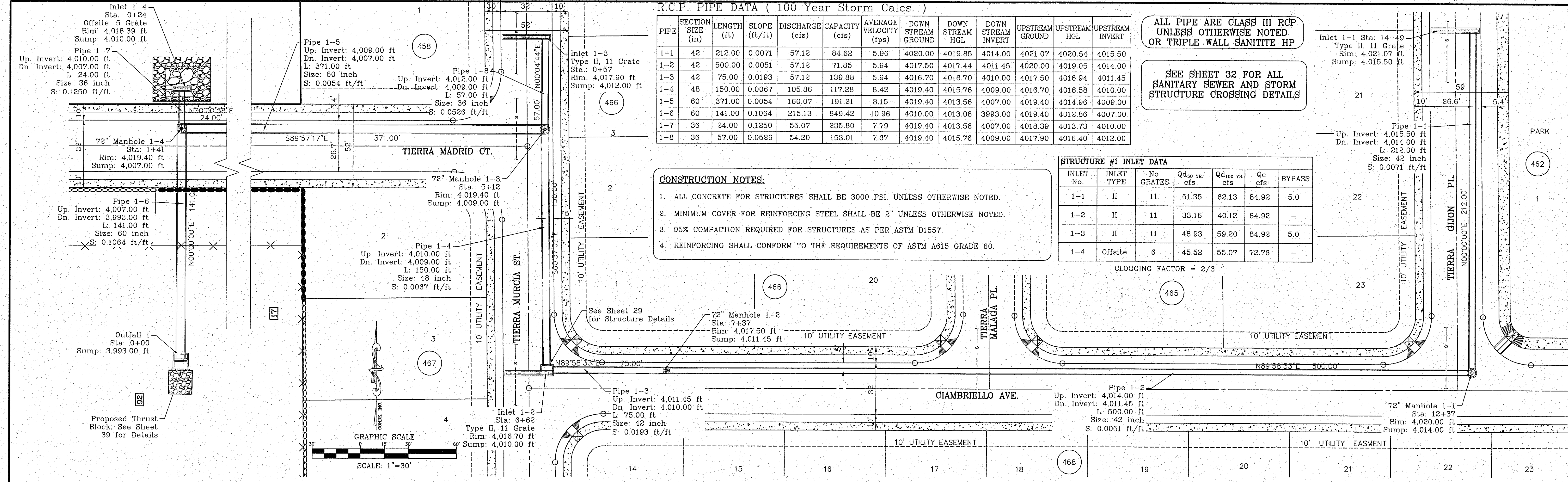
STRUCTURE #1 INLET DATA

INLET No.	INLET TYPE	No. GRATES	Qd ₅₀ yr. cfs	Qd ₁₀₀ yr. cfs	Qc cfs	BYPASS
1-1	II	11	51.35	62.13	84.92	5.0
1-2	II	11	33.16	40.12	84.92	-
1-3	II	11	48.93	59.20	84.92	5.0
1-4	Offsite	6	45.52	55.07	72.76	-

CLOGGING FACTOR = 2/3

CONSTRUCTION NOTES:

- ALL CONCRETE FOR STRUCTURES SHALL BE 3000 PSI. UNLESS OTHERWISE NOTED.
- MINIMUM COVER FOR REINFORCING STEEL SHALL BE 2" UNLESS OTHERWISE NOTED.
- 95% COMPACTION REQUIRED FOR STRUCTURES AS PER ASTM D1557.
- REINFORCING SHALL CONFORM TO THE REQUIREMENTS OF ASTM A615 GRADE 60.



BENCHMARK

CITY MONUMENT AT THE CENTERLINE INTERSECTION OF SADDLEHORN PL. AND HOLLY SPRINGS AVE. ELEVATION 4024.74

DATE: 05/05/16

BY: E.J.

REVISIONS

CITY REDLINES AS PER 03/31/16 COMMENTS

PROJECT NAME

TERRA DEL ESTE UNIT 73

BEING PORTION OF SECTION 48, BLOCK 70, TOWNSHIP 2, TEXAS AND PACIFIC RAILWAY CO. SURVEYS, EL PASO COUNTY, TEXAS CONTAINING: 52.766± ACRES

SCALE

HORIZ: 1" = 40.00'

VERT: 1" = 10.00'

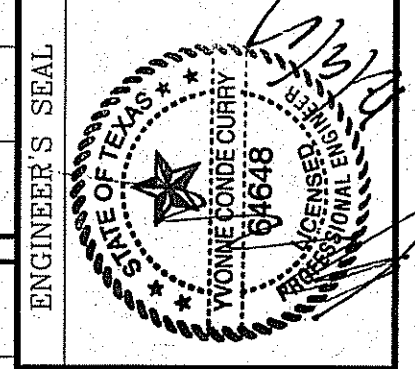
DATE: OCT. 2014

DESIGNED BY: Y.C.

INITIATED BY: R.R.

CHECKED BY: Y.C.

JOB NO.: 1019-23



ENGINEER'S SEAL

CONDE INC.

ENGINEERING / PLANNING / SURVEYING / GPS

6080 SURVEY DR. STE 100

EL PASO, TEXAS 79905

PHONE: (915) 592-0283

FAX: (915) 592-0266

SHEET TITLE

STRUCTURE #1

Final Approval

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

PIPE	SECTION SIZE (in)	LENGTH (ft)	SLOPE (ft/ft)	DISCHARGE (cfs)	CAPACITY (cfs)	AVERAGE VELOCITY (fps)	DOWN STREAM GROUND	DOWN STREAM HGL	DOWN STREAM INVERT	UPSTREAM GROUND	UPSTREAM HGL	UPSTREAM INVERT	NORMAL DEPTH
2-1	30	248.00	0.0141	48.49	48.72	9.88	4018.60	4014.67	4011.00	4019.40	4018.14	4014.50	2.04
2-2	30	82.50	0.0364	42.27	78.21	8.97	4018.60	4014.67	4011.00	4019.15	4016.18	4014.00	1.31
2-3	42	20.00	0.0500	92.22	224.96	10.11	4016.47	4013.43	4010.00	4018.60	4013.97	4011.00	1.56
2-4	48	133.00	0.0150	93.68	176.14	8.47	4018.00	4012.67	4008.00	4016.47	4012.93	4010.00	2.07
2-5	54	100.00	0.1600	93.68	774.17	6.04	4017.00	4011.90	3992.00	4018.00	4012.07	4008.00	1.05

THRUST BLOCK DIMENSION CALCULATIONS

THRUST BLOCK DIMENSIONS

Struct. no.	Pipe size	W = PIPE + 1' MIN.	H	L	A	b	c	d	e & t	f
1	54	5.5'	4.13'	7.32'	2.75	2.06	2.75'	0.92'	1.0'	1.0'
2	60	6.33'	4.75'	8.42'	3.17'	2.37'	3.17'	1.05'	1.0'	1.0'

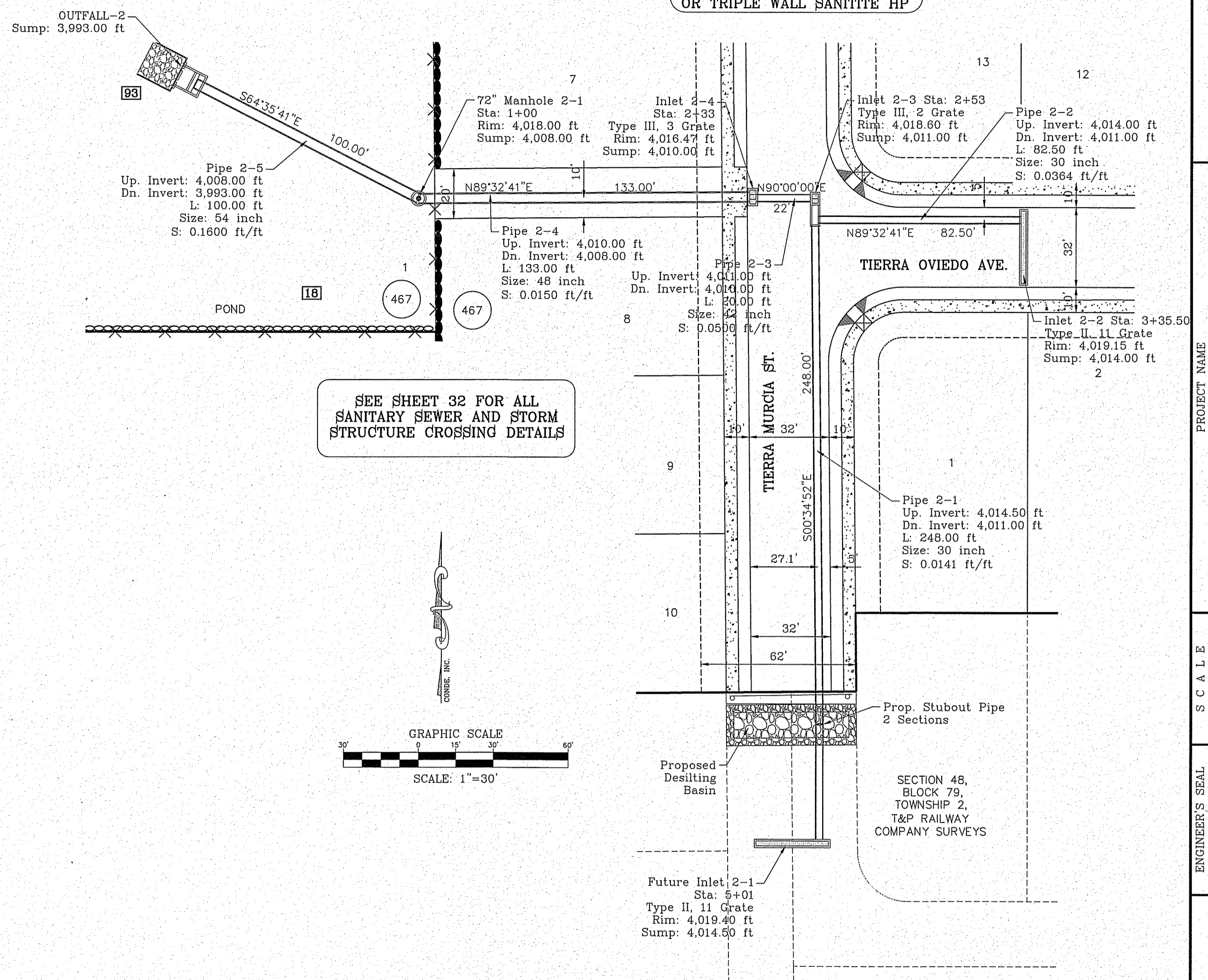
STRUCTURE #1 INLET DATA

INLET No.	INLET TYPE	No. GRATES	Q _{d50} yr cfs	Q _{d100} yr cfs	Q _c cfs	By Pass
2-1	II	11	40.41	48.49	84.92	7.5
2-2	II	11	34.94	42.27	84.92	7.5
2-3	III	2	1.46	1.97	15.44	-
2-4	III	3	1.46	1.97	23.16	-

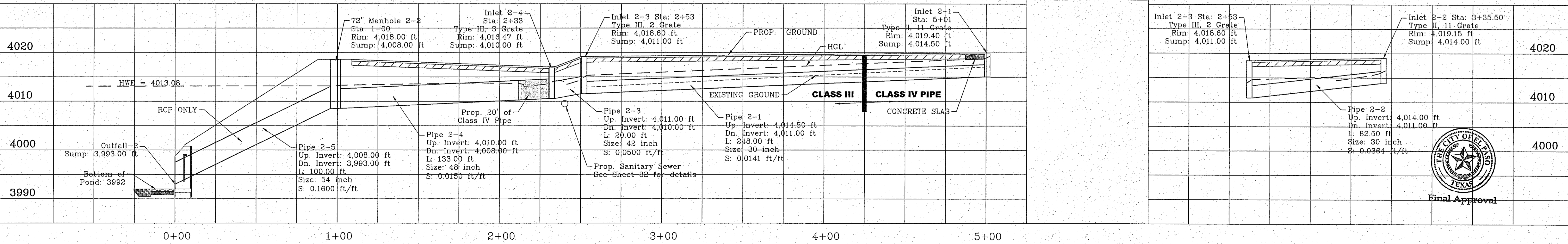
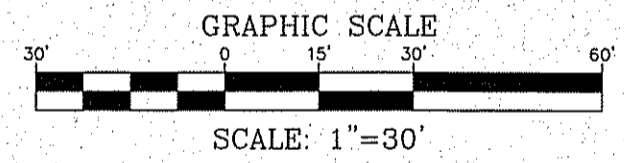
CLOGGING FACTOR = 2/3

- CONSTRUCTION NOTES:
- ALL CONCRETE FOR STRUCTURES SHALL BE 3000 PSI. UNLESS OTHERWISE NOTED.
 - MINIMUM COVER FOR REINFORCING STEEL SHALL BE 2" UNLESS OTHERWISE NOTED.
 - 95% COMPACTION REQUIRED FOR STRUCTURES AS PER ASTM D1557.
 - REINFORCING SHALL CONFORM TO THE REQUIREMENTS OF ASTM A615 GRADE 60.

ALL PIPE ARE CLASS III RCP UNLESS OTHERWISE NOTED OR TRIPLE WALL SANITITE HP



SEE SHEET 32 FOR ALL SANITARY SEWER AND STORM STRUCTURE CROSSING DETAILS



BENCHMARK

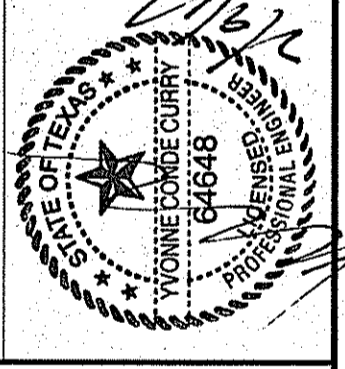
CITY MONUMENT AT THE CENTRAL INTERSECTION OF SADDLEHORN PL. AND HOLLY SPRINGS AVE. ELEVATION 4024.74

DATE: 05/05/16
BY: E.J.

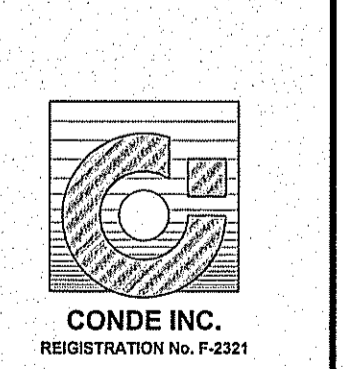
REVISIONS
DATE: 09/19/16
BY: PSB
REVISIONS AS PER 03/31/16 COMMENTS
REVISIONS AS PER 08/11/16 COMMENTS

PROJECT NAME
TIERRA DEL ESTE UNIT 73
BEING PORTION OF SECTION 48, BLOCK 79, TOWNSHIP 2, TEXAS COUNTY, TEXAS, CONTAINING 62.766± ACRES

SCALE
HORIZ. 1" = 30'
VERT. 1" = 10'
DATE: OCT. 2014
DESIGNED BY: Y.C.
INITIATED BY: R.R.
CHECKED BY: Y.C.
JOB NO.: 1013-23



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

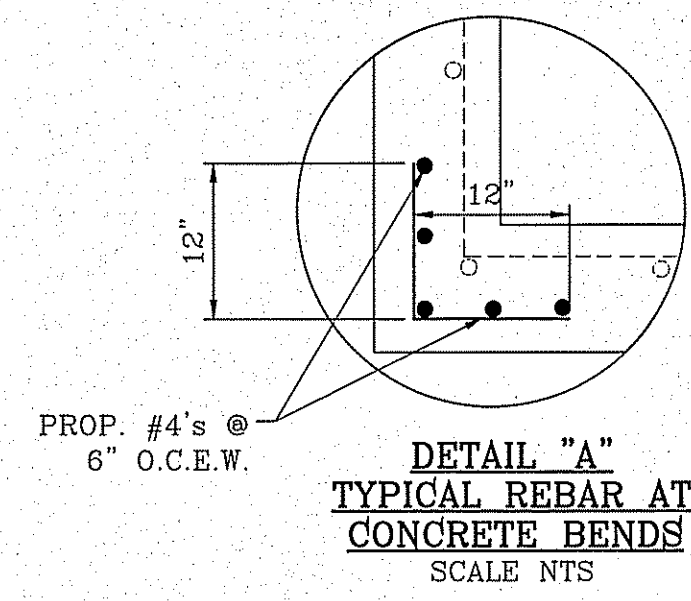
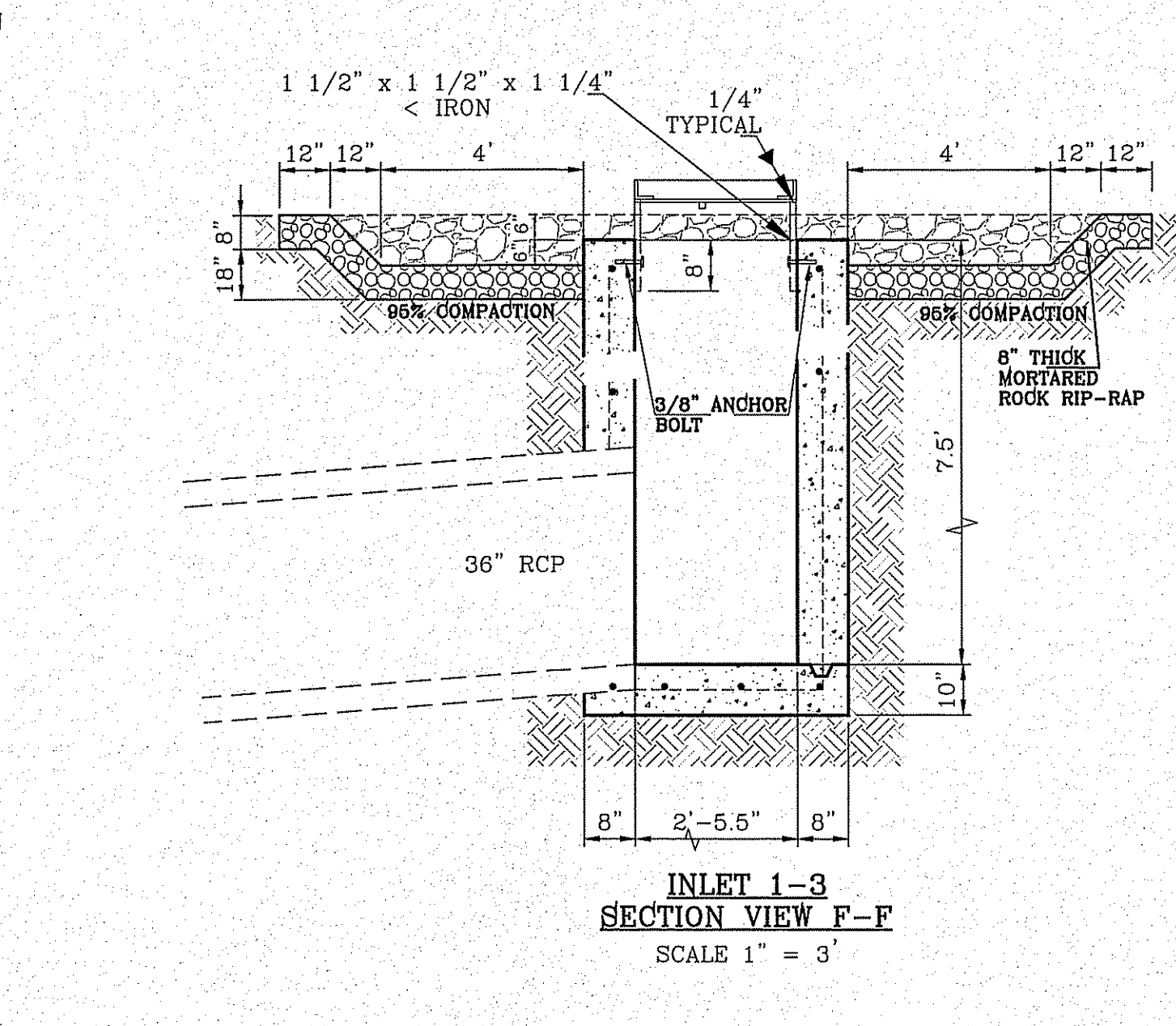
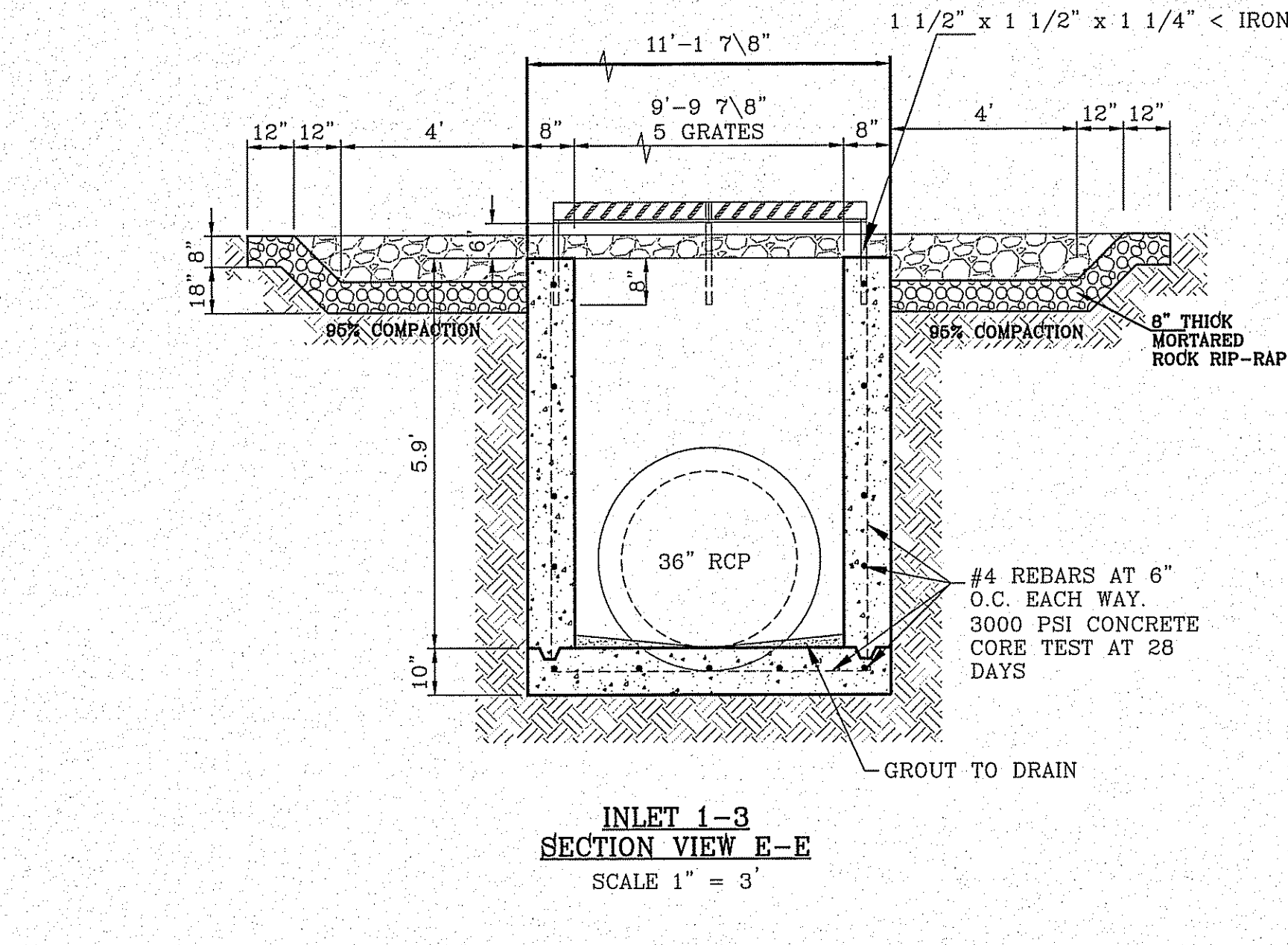
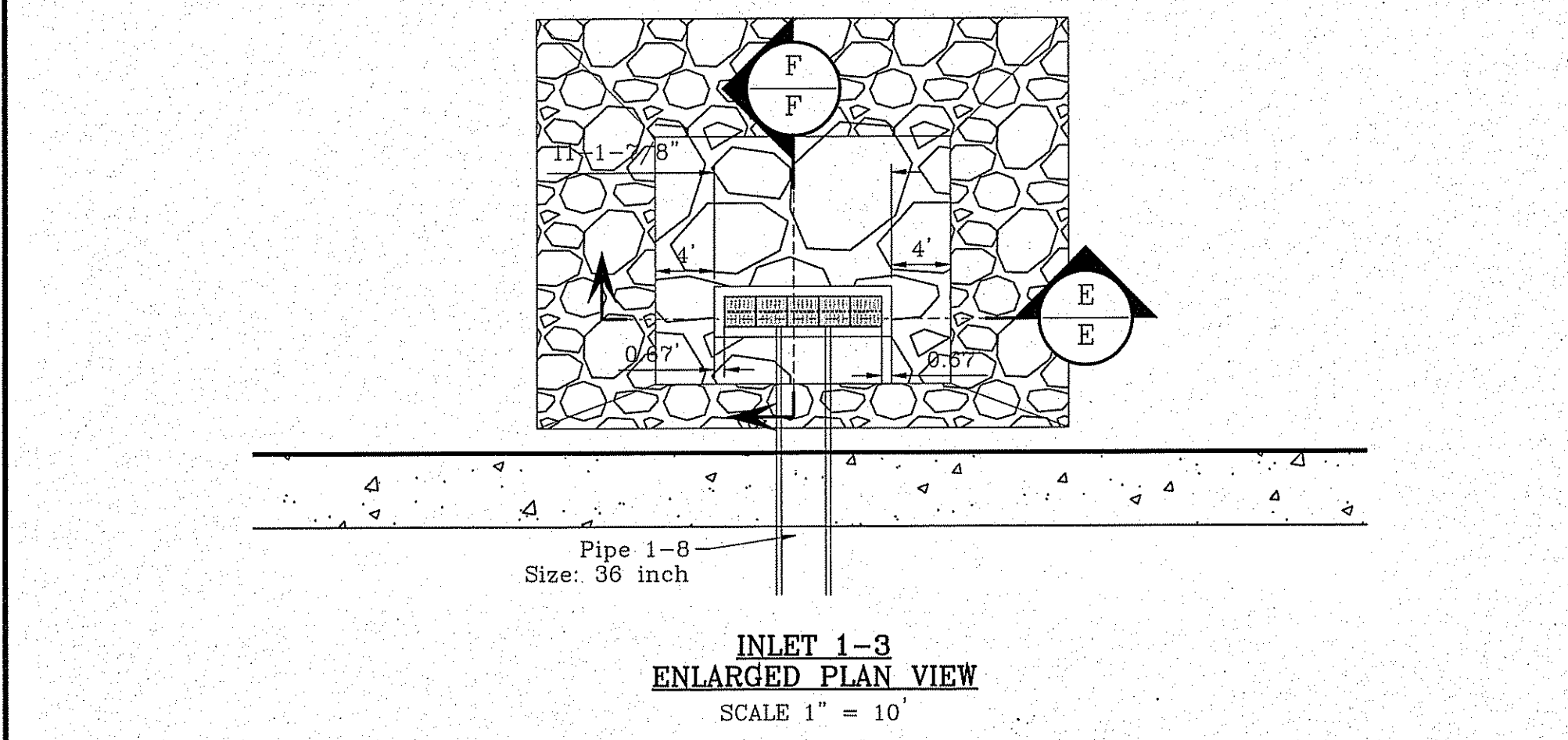
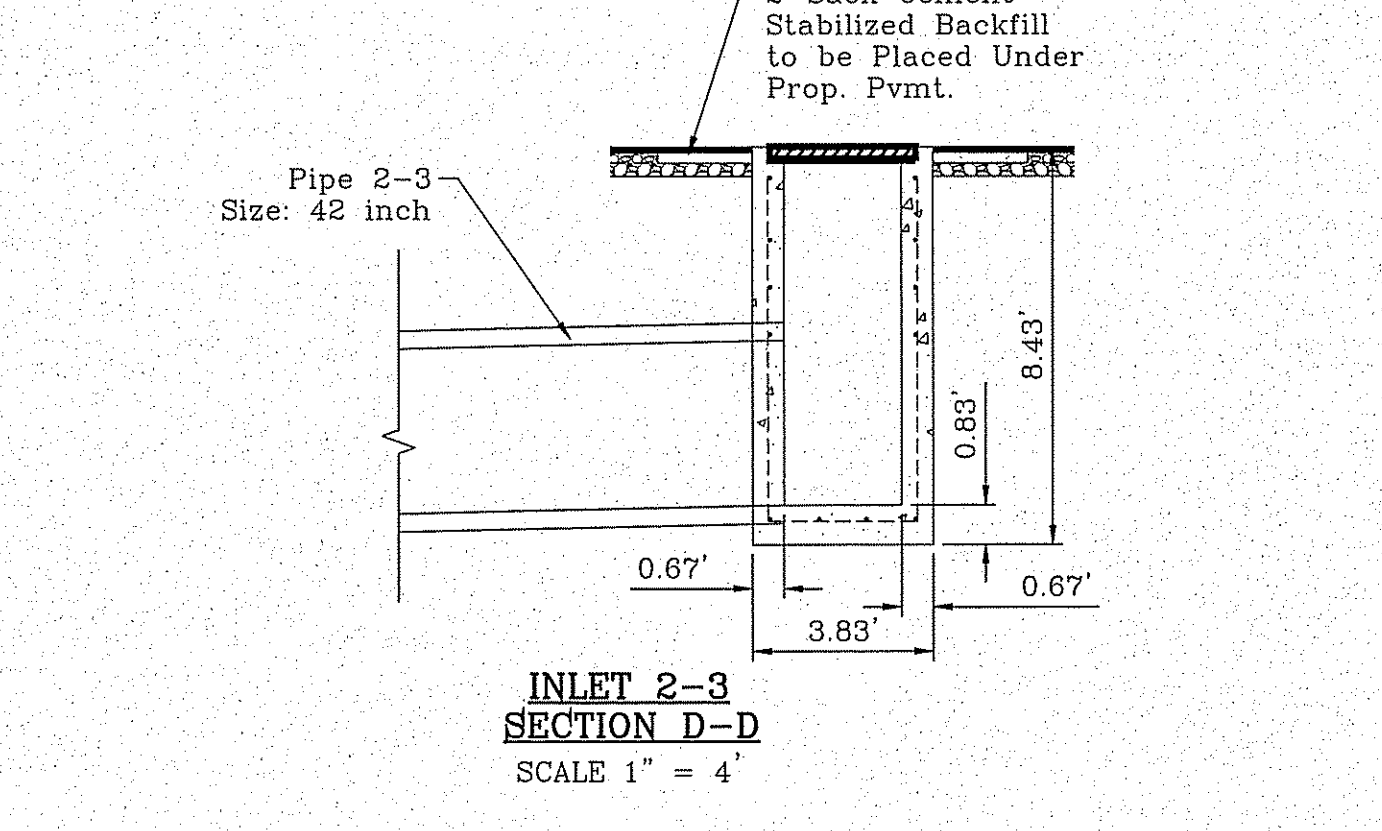
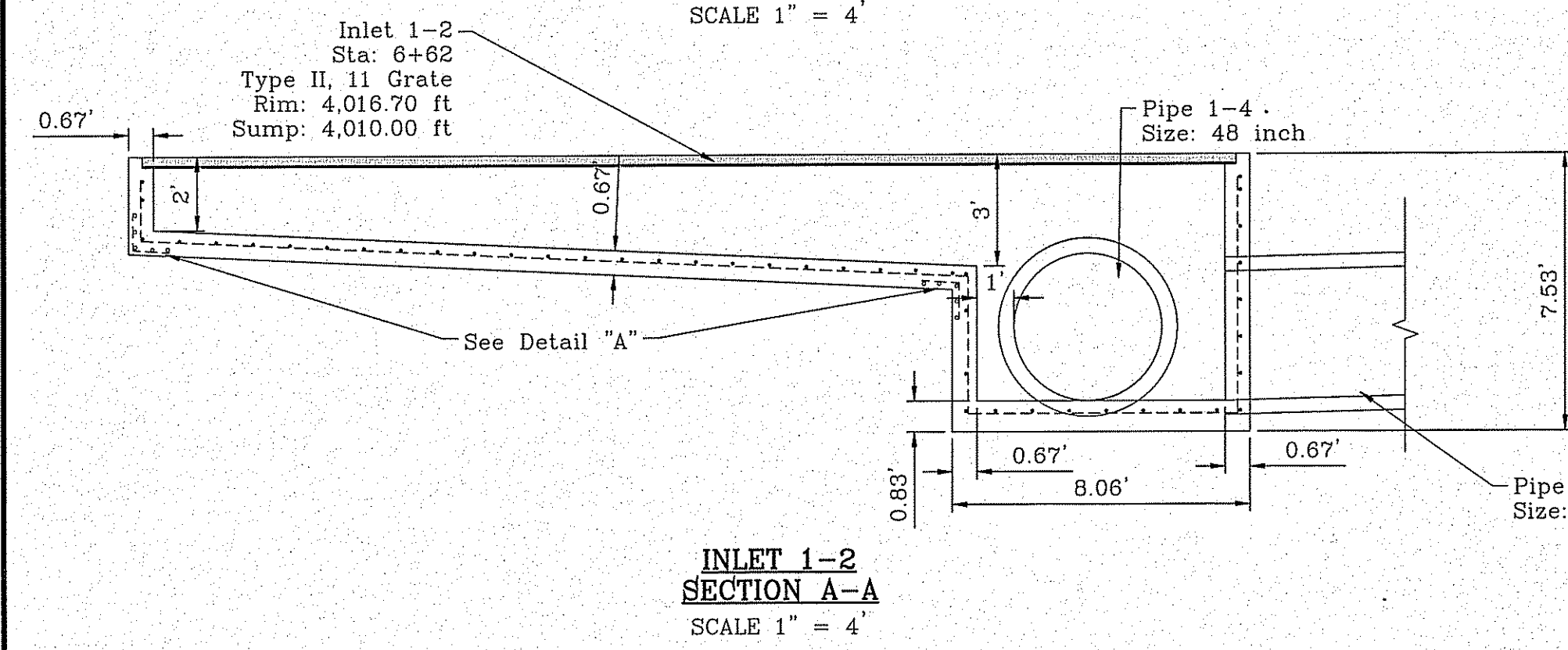
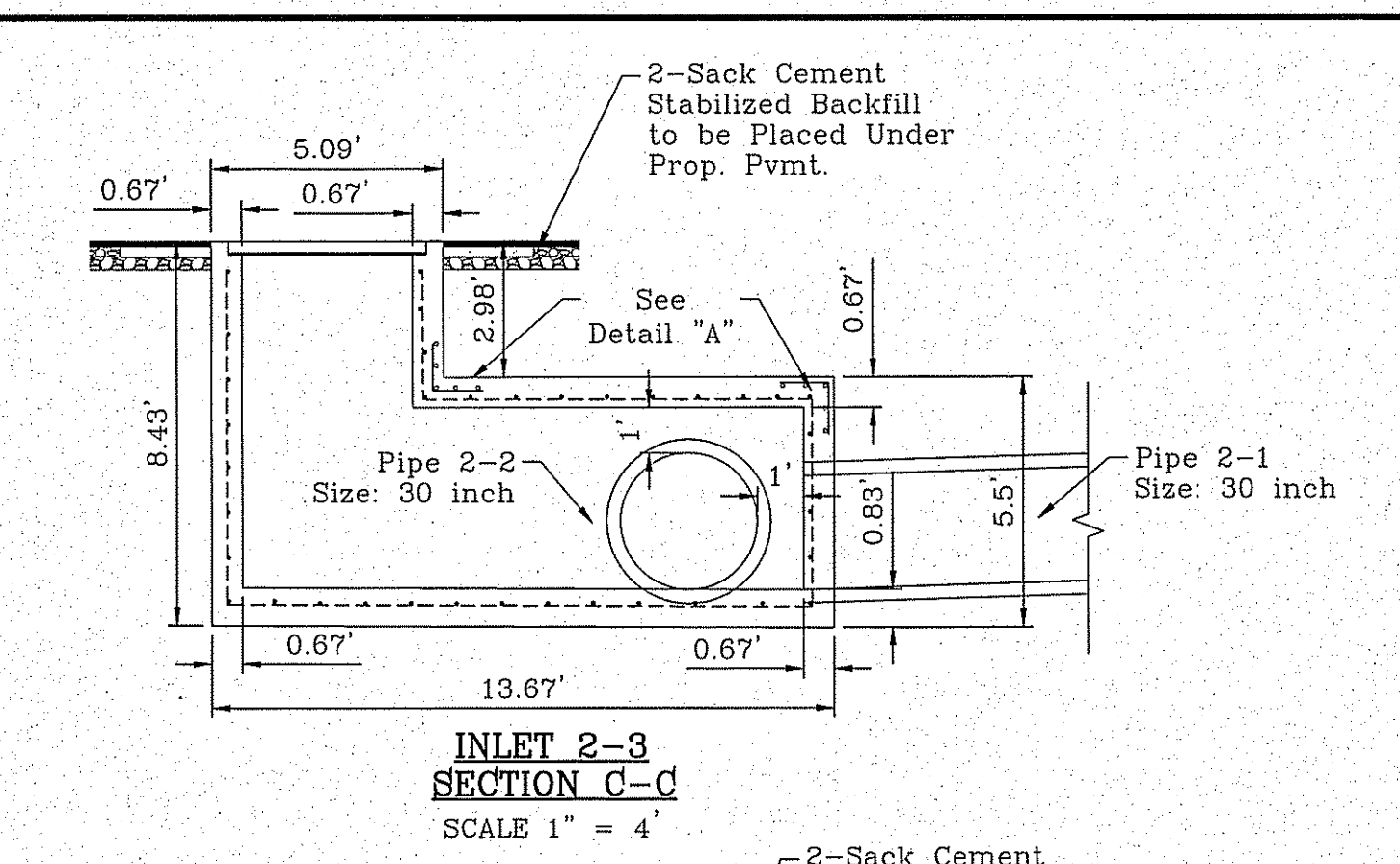
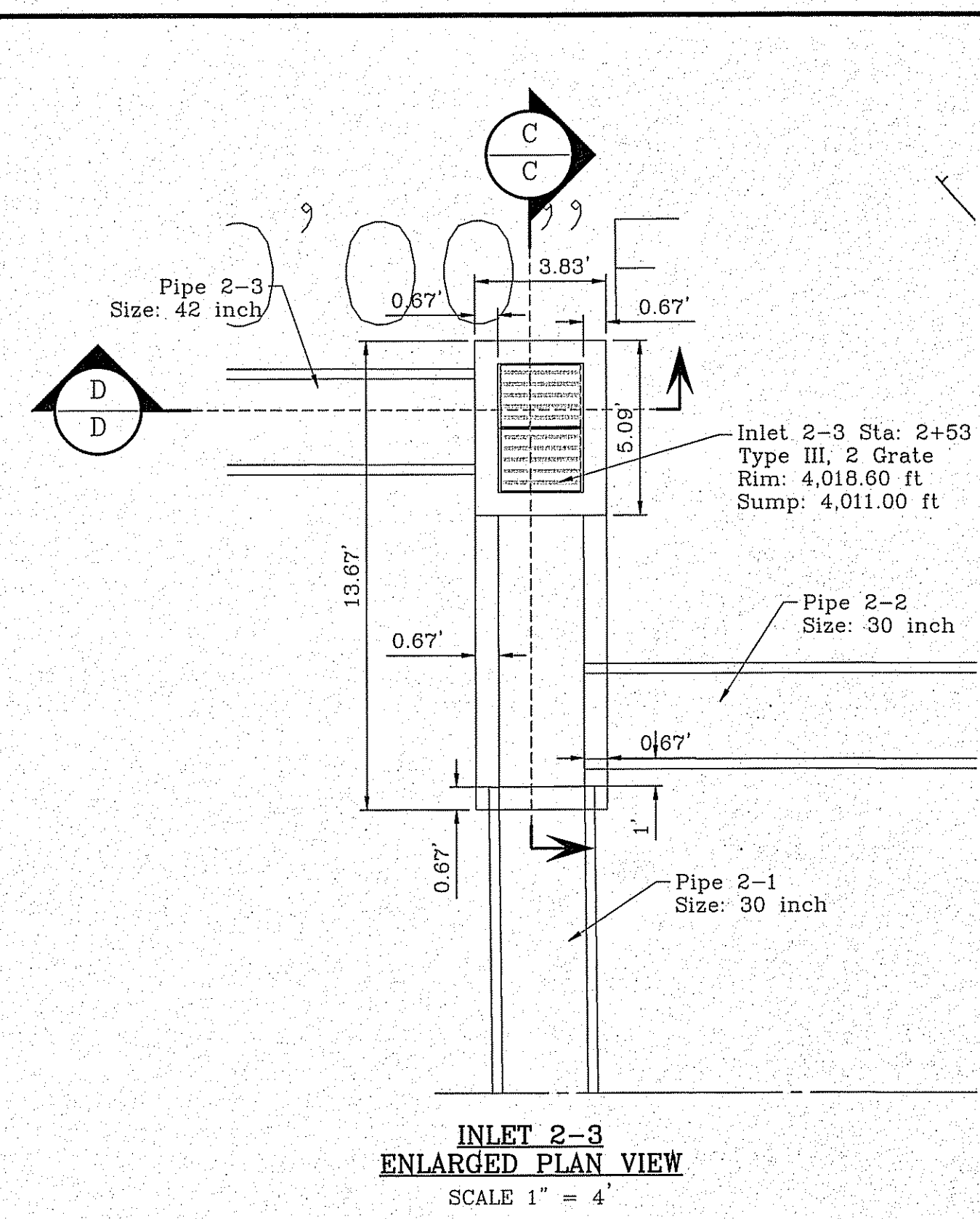
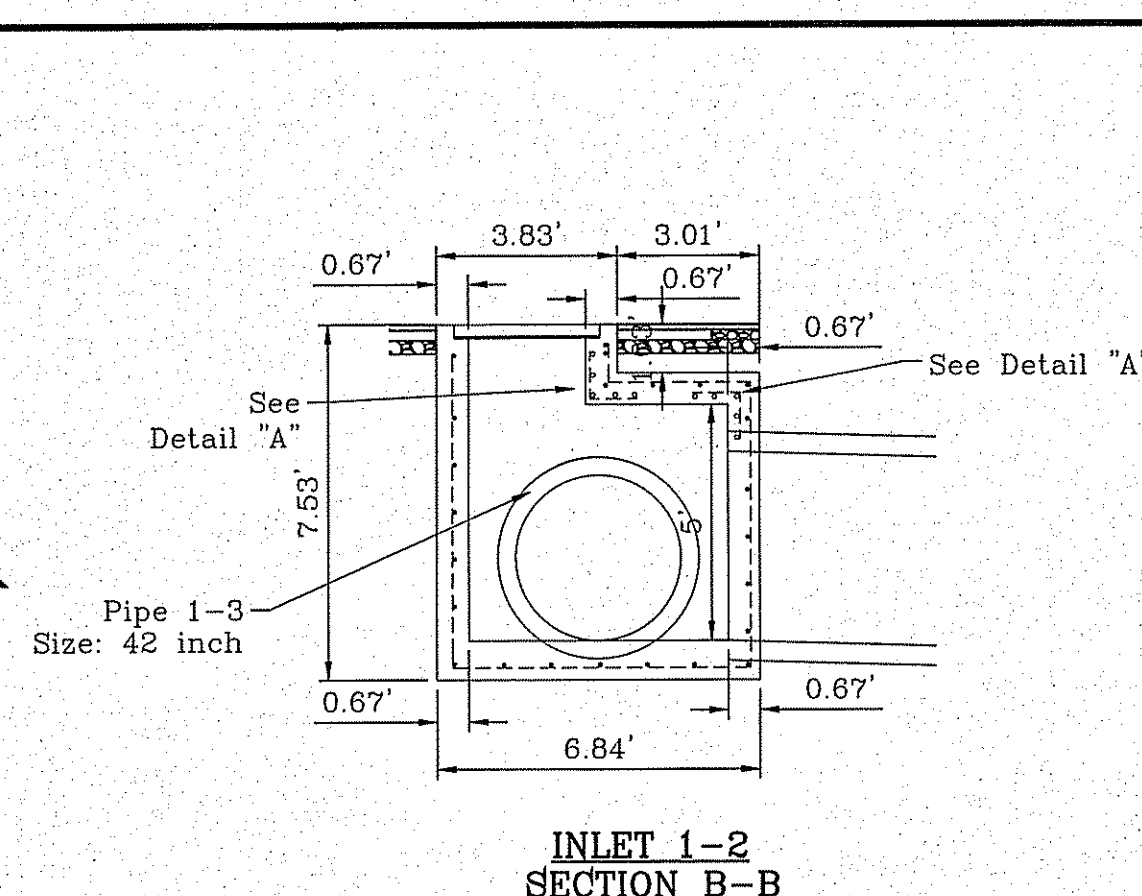
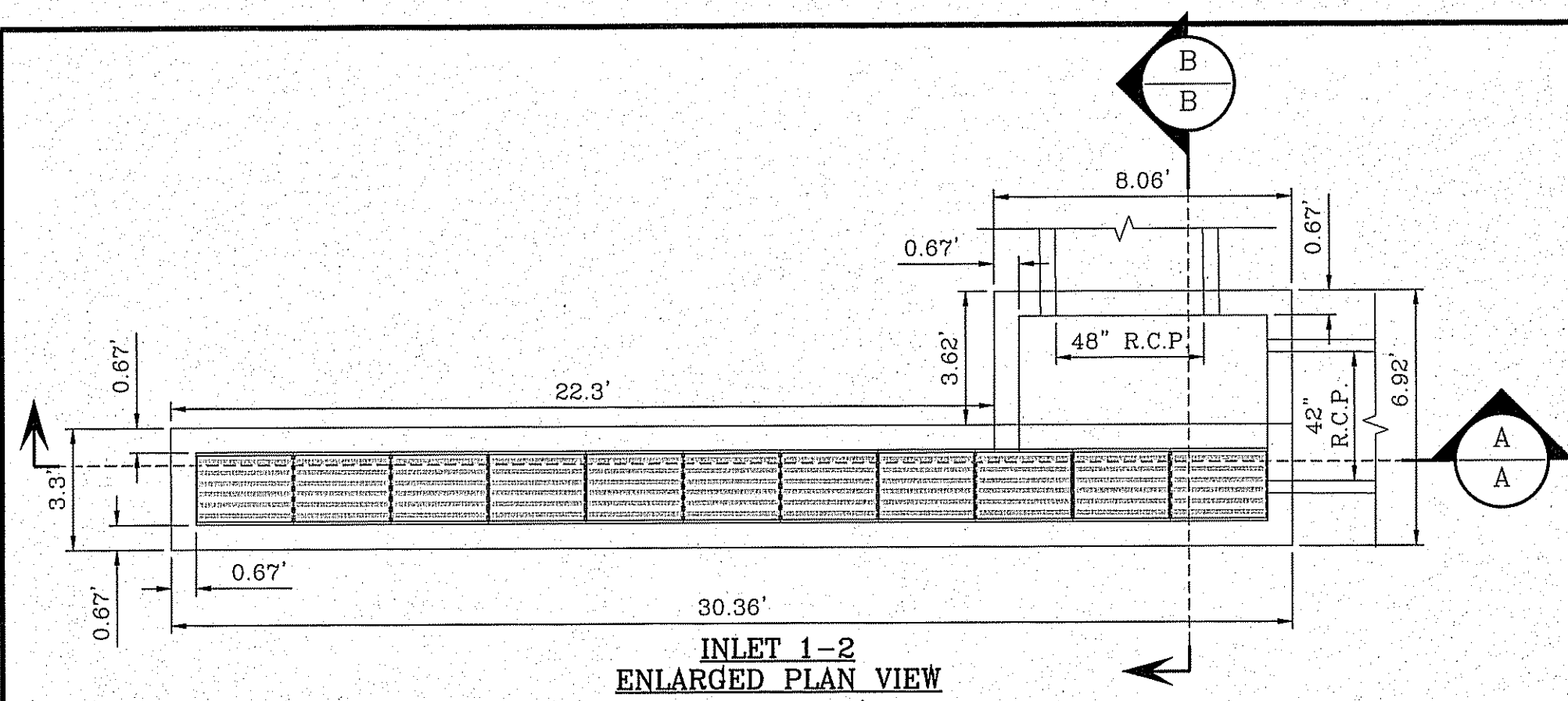


SHEET TITLE
STRUCTURE #2

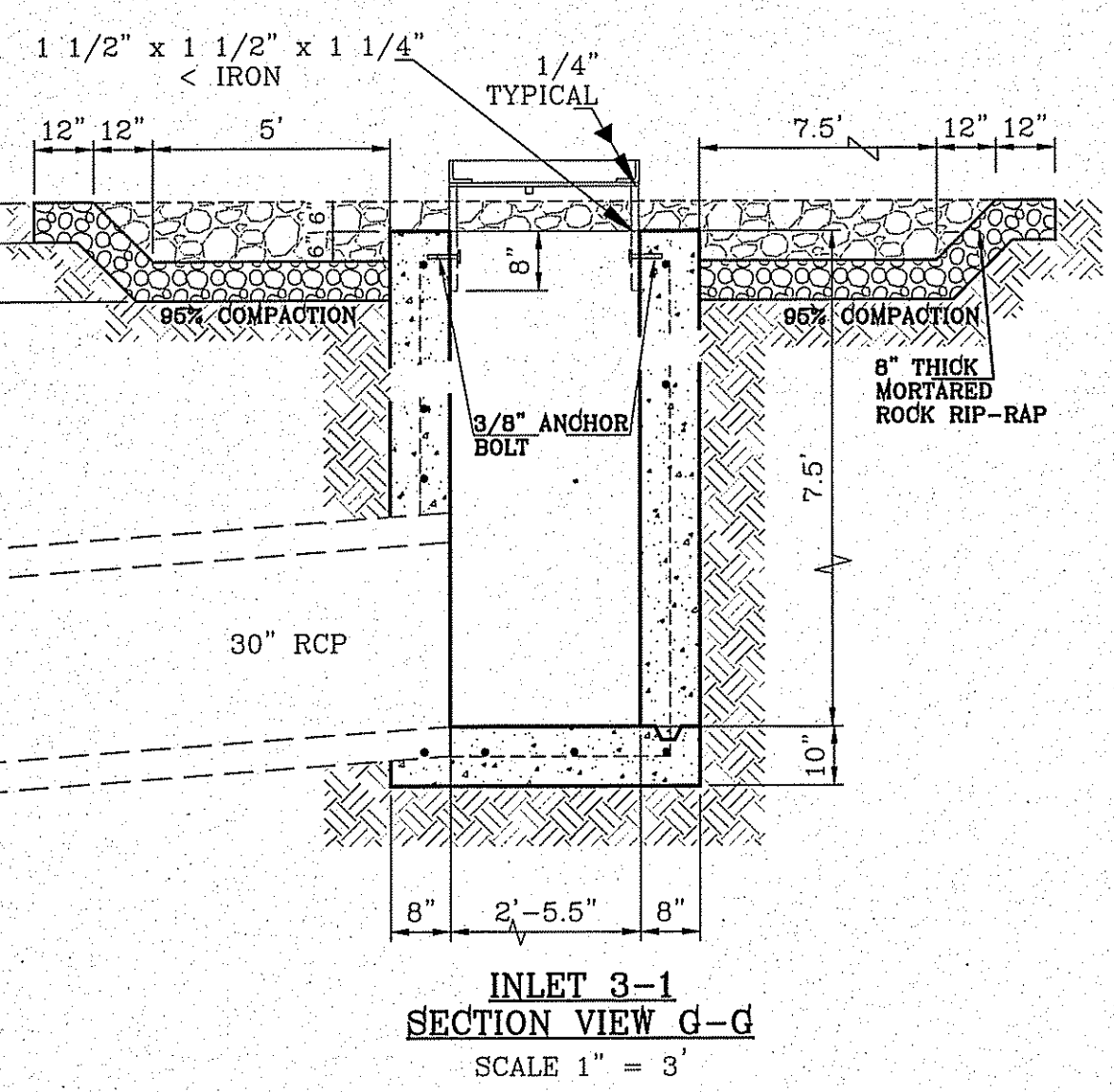
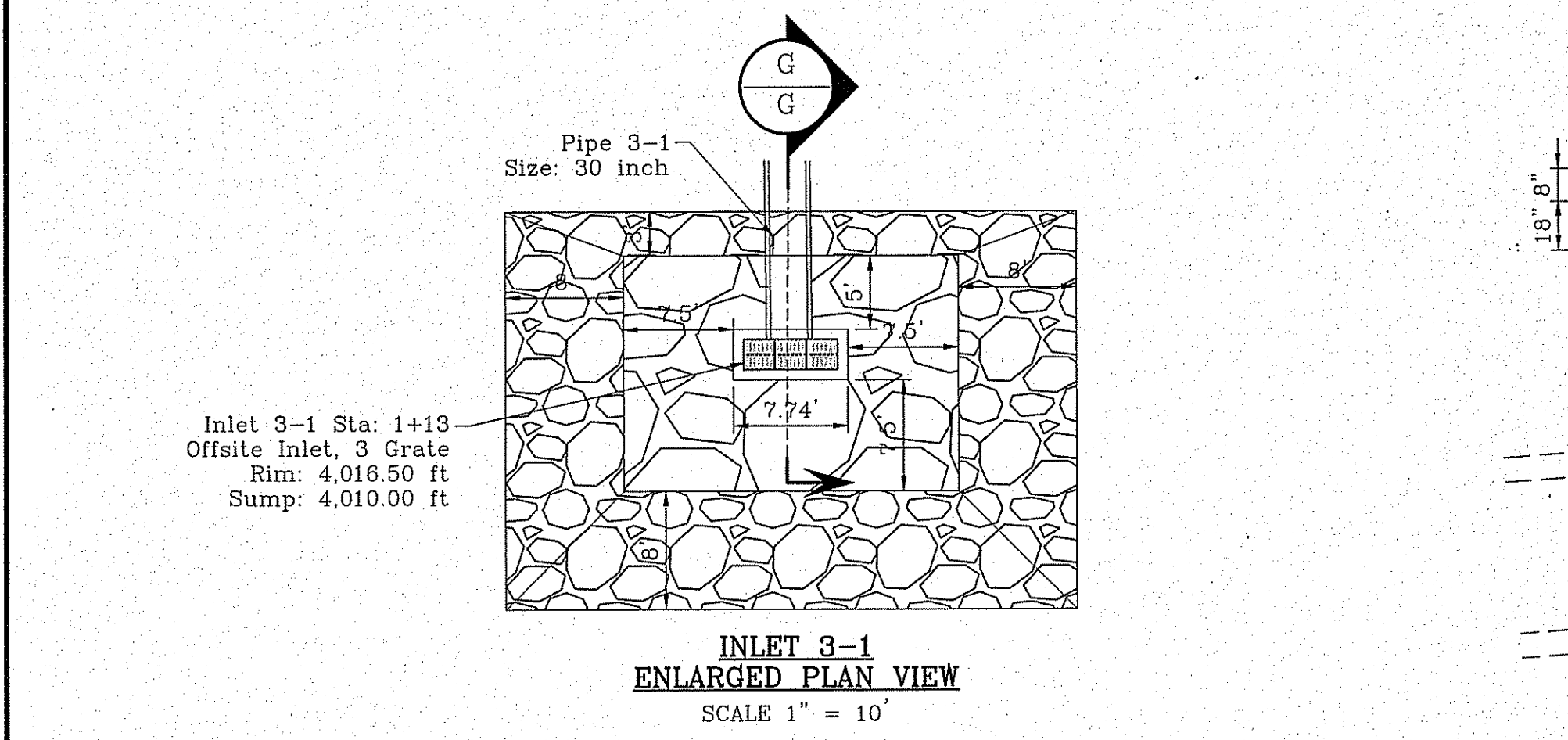
SHT 28A OF 39

FILE LOCATION: S:\Subdivisions\TDE 73 DWG\STRUCTURES PLOTTED ON Wednesday, October 12, 2016 7:32:46 AM BY ESTEBAN JUAREZ

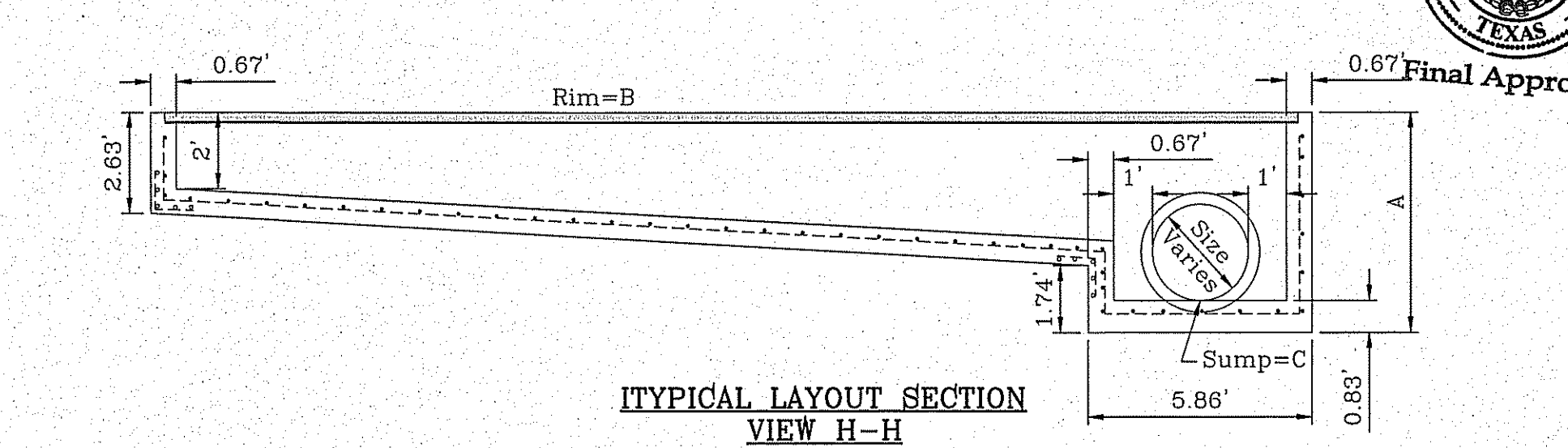
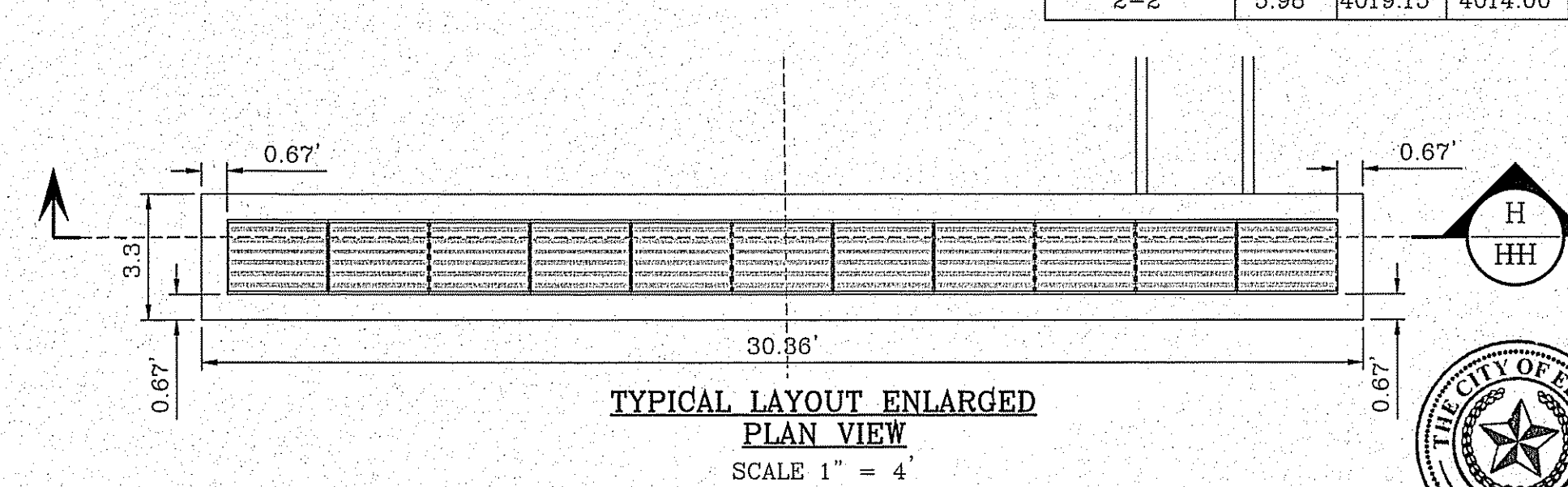
FILE LOCATION S:\Subdivisions\TDE 73\DWG\STRUCTURES PLOTTED ON Wednesday, October 12, 2016 7:24:35 AM BY ESTEBAN JUAREZ



STRUCTURE TABLE			
STRUCTURE #	A	B	C
1-1	6.40'	4021.07	4015.50
1-4	9.22'	4018.39	4010.00
2-1	5.73'	4019.40	4014.50
2-2	5.98'	4019.15	4014.00



- CONSTRUCTION NOTES:**
- ALL CONCRETE FOR STRUCTURES SHALL BE BROOM FINISHED 3500 PSI. UNLESS OTHERWISE NOTED.
 - MINIMUM COVER FOR REINFORCING STEEL SHALL BE 2" UNLESS OTHERWISE NOTED.
 - 95% COMPACTION REQUIRED FOR STRUCTURES AS PER ASTM D1557.
 - REINFORCING SHALL CONFORM TO THE REQUIREMENTS OF ASTM A615 GRADE 60.



BENCHMARK
CITY MONUMENT AT THE CENTERLINE INTERSECTION OF SADDLEHORN PL. AND HOLLY SPRINGS AVE. ELEVATION 4024.74.....NAVDD88 DATUM

PROJECT NAME
TERRA DEL ESTE UNIT 73
BEING PORTION OF SECTION 48, BLOCK 79, TOWNSHIP 2, TEXAS AND PACIFIC RAILWAY CO. SURVEYS, EL PASO COUNTY, TEXAS
CONTAINING: 62.766± ACRES

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

ENGINEER'S SEAL
DATE: OCT. 2014
DESIGN BY: Y.C.
INITIATED BY: R.R.
CHECKED BY: Y.C.
JOB NO.: 1013-23

CONDE INC.
ENGINEERING / PLANNING
SURVEYING / GPS
6000 SURETY DR. STE 100
EL PASO, TEXAS 79905
PHONE: (915) 592-0283
FAX: (915) 592-0286

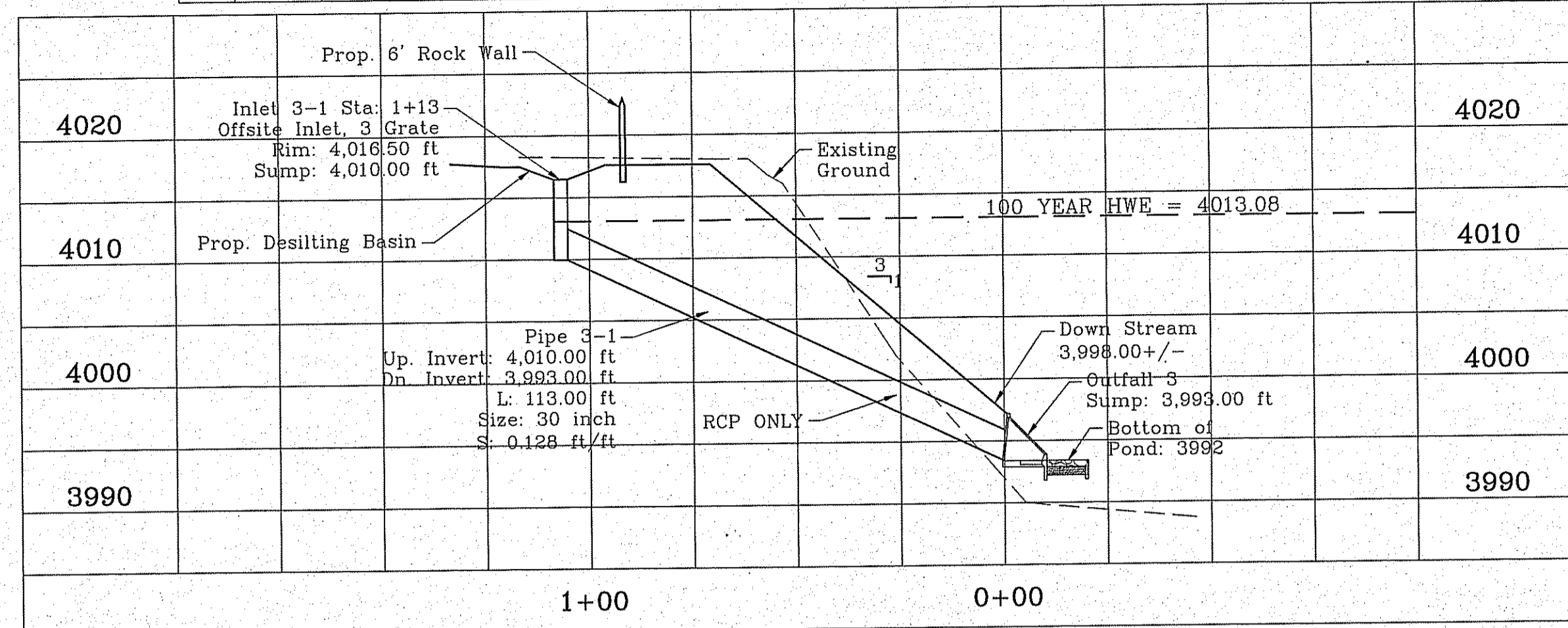
SHEET TITLE
STRUCTURE DETAILS

SHT 29 OF 39

FILE LOCATION: S:\Subdivisions\TDE 73 DWG\STRUCTURES-2 PLOTTED ON Tuesday, October 11, 2016 4:56:47 PM BY ESTEBAN JUAREZ

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

PIPE	SECTION SIZE (in)	LENGTH (ft)	SLOPE (ft/ft)	DISCHARGE (cfs)	CAPACITY (cfs)	AVERAGE VELOCITY (fps)	DOWN STREAM GROUND	DOWN STREAM HGL	DOWN STREAM INVERT	UPSTREAM GROUND	UPSTREAM HGL	UPSTREAM INVERT
3-1	30	113.00	0.1504	53.28	156.73	10.85	4,017.00	4,012.61	3,993.00	4,016.50	4,014.52	4,010.00

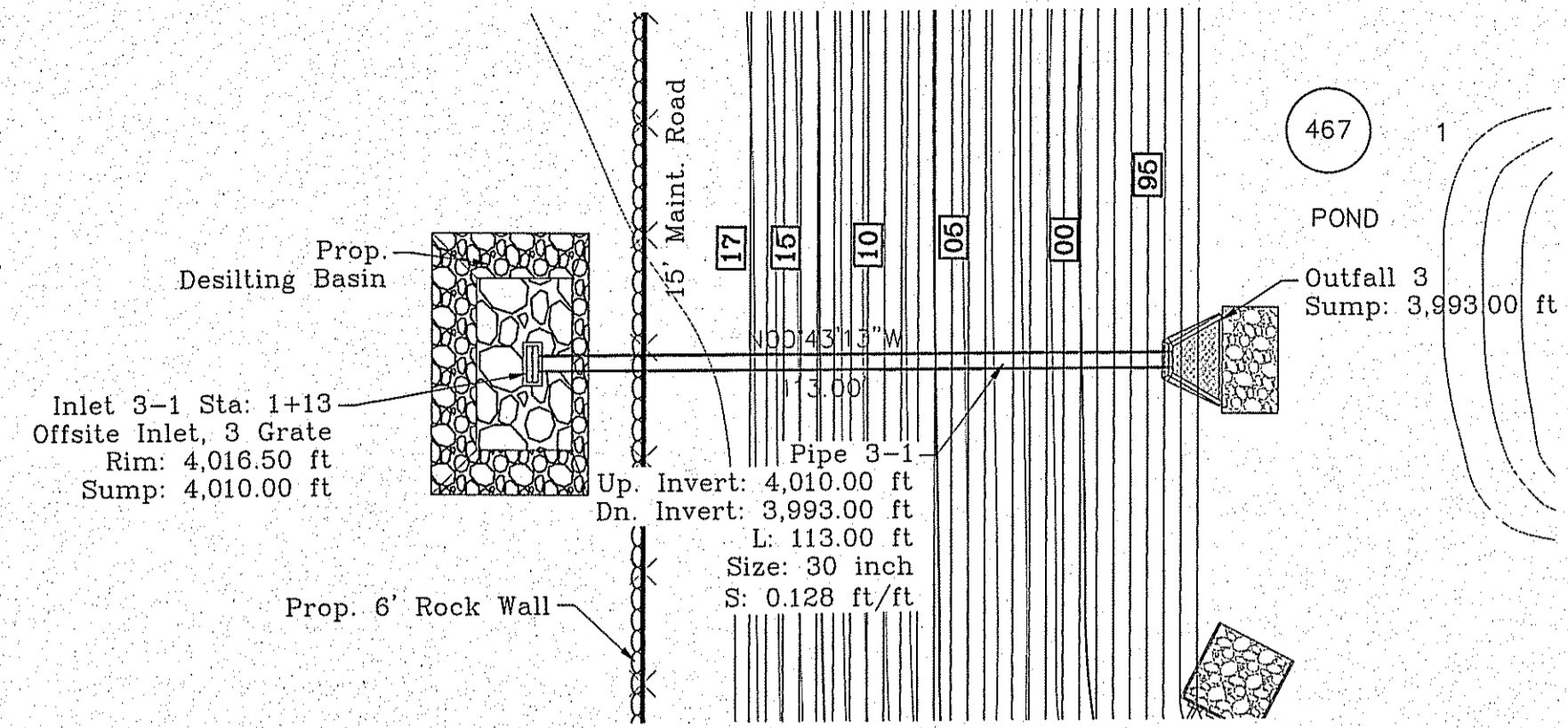


STRUCTURE #3 ENLARGED PROFILE VIEW

SCALE: 1" = 30'

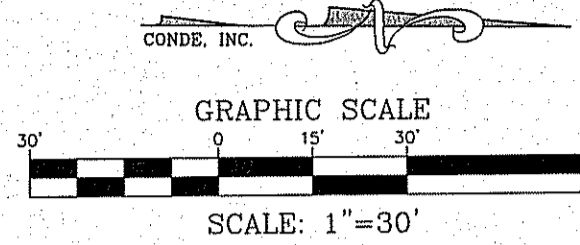
STRUCTURE #1 INLET DATA

INLET No.	INLET TYPE	No. GRATES	Qd50 yr. cfs	Qd100 yr. cfs	Qc cfs
3-1	Offsite	3	14.09	17.04	36.38



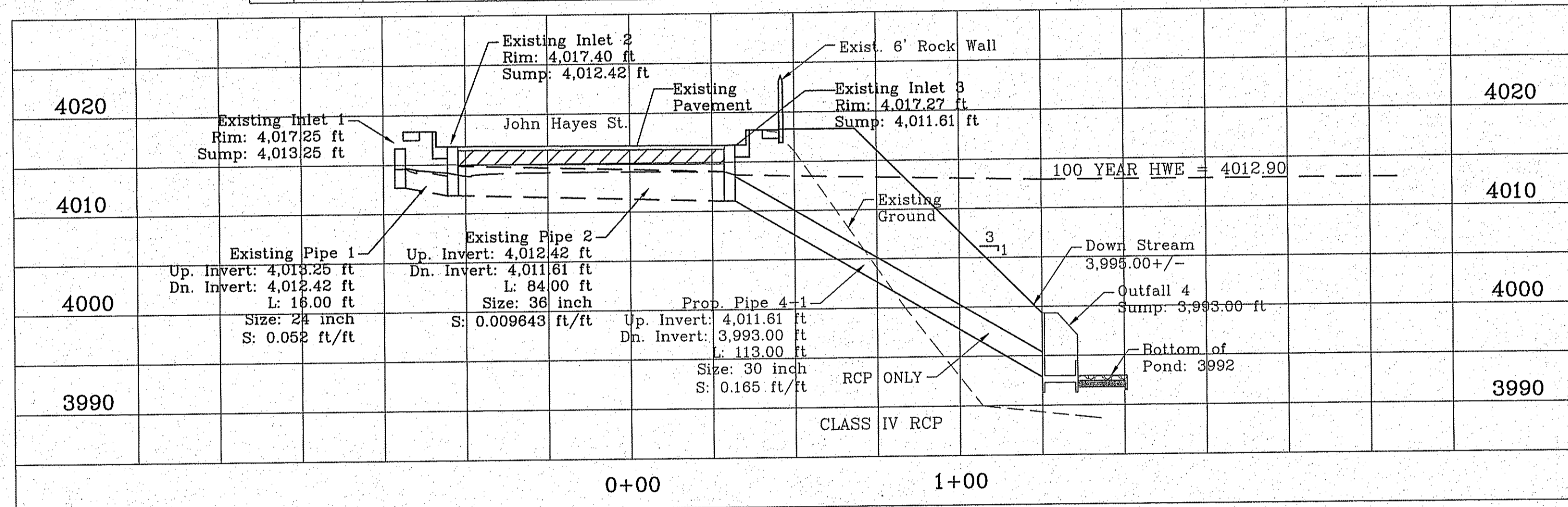
STRUCTURE #3 ENLARGED PLAN VIEW

SCALE: 1" = 30'



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

PIPE	SECTION SIZE (in)	LENGTH (ft)	SLOPE (ft/ft)	DISCHARGE (cfs)	CAPACITY (cfs)	AVERAGE VELOCITY (fps)	DOWN STREAM GROUND	DOWN STREAM HGL	DOWN STREAM INVERT	UPSTREAM GROUND	UPSTREAM HGL	UPSTREAM INVERT
4-1	30	113.00	0.1647	17.94	164.20	4.91	4,017.00	4,012.61	3,993.00	4,017.27	4,013.04	4,011.61



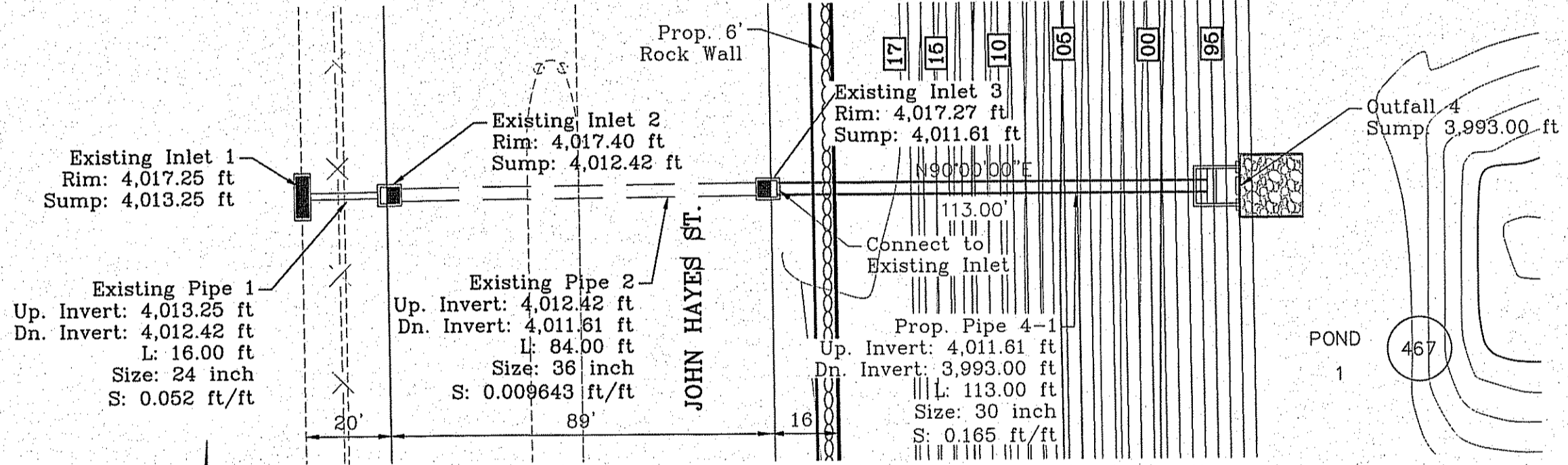
EXISTING STRUCTURE ADDITION PROFILE VIEW (Struct. #4)

SCALE: 1" = 30'

CONSTRUCTION NOTES:

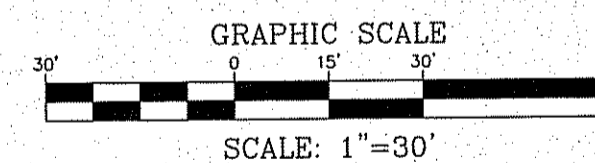
- ALL CONCRETE FOR STRUCTURES SHALL BE 3000 PSI. UNLESS OTHERWISE NOTED.
- MINIMUM COVER FOR REINFORCING STEEL SHALL BE 2" UNLESS OTHERWISE NOTED.
- 95% COMPACTION REQUIRED FOR STRUCTURES AS PER ASTM D1557.
- REINFORCING SHALL CONFORM TO THE REQUIREMENTS OF ASTM A615 GRADE 60.

ALL PIPE ARE CLASS III RCP UNLESS OTHERWISE NOTED OR TRIPLE WALL SANITITE HP



EXISTING STRUCTURE ADDITION PROFILE VIEW (Struct. #4)

SCALE: 1" = 30'



BENCHMARK

PROJECT NAME

SCALE

ENGINEER'S SEAL

CONDE INC.

SHEET TITLE

SHT 30 OF 39

CITY MONUMENT AT THE CENTERLINE INTERSECTION OF SADDLEHORN PL. AND HOLLY SPRINGS AVE. ELEVATION 4024.74 NAVD83 DATUM

REVISIONS

DATE: 05/05/16 CITY REVISIONS AS PER 03/31/16 COMMENTS E.J.

DATE: 09/19/16 PSB REVISIONS AS PER 06/11/16 COMMENTS E.J.

TERRA DEL ESTE UNIT 73

BEING PORTION OF SECTION 46, BLOCK 79, TOWNSHIP 2, TEXAS AND RANGE 10, COUNTY TEXAS SURVEYS, EL PASO COUNTY, TEXAS

CONTAINING: 52.766± ACRES

HORIZ: 11°-00'00"

VERT: 1" = 10'0"

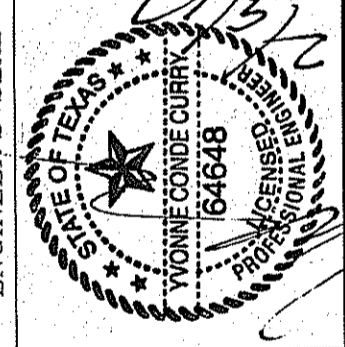
DATE: OCT. 2014

DESIGN BY: Y.C.

INITIATED BY: R.R.

CHECKED BY: Y.C.

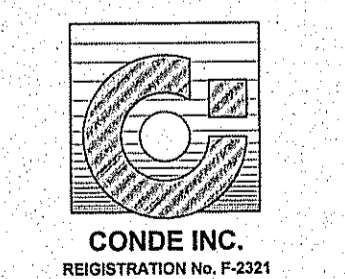
JOB NO.: 1013-23



ENGINEERING / PLANNING SURVEYING / GPS

6080 SURETY DR. STE 100 EL PASO, TEXAS 79905

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

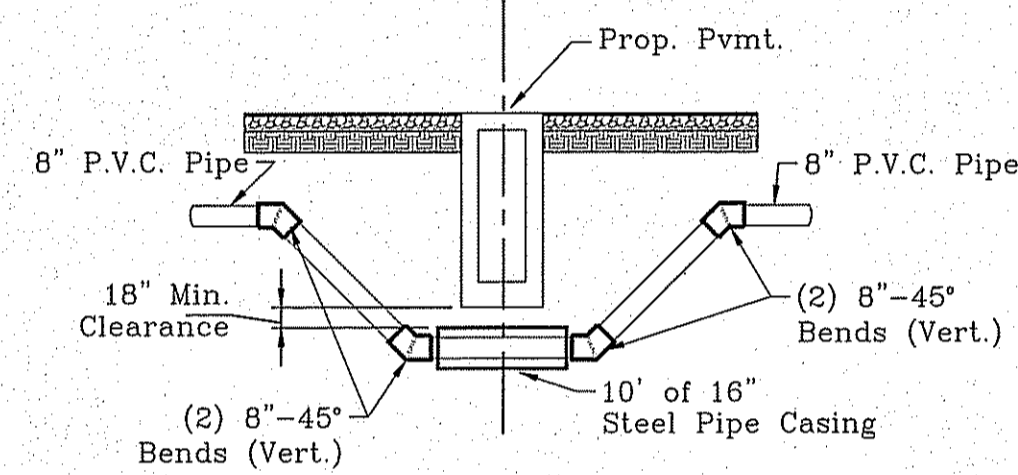


STRUCTURE #3 & STRUCTURE #4 & EXISTING STRUCTURE ADDITION

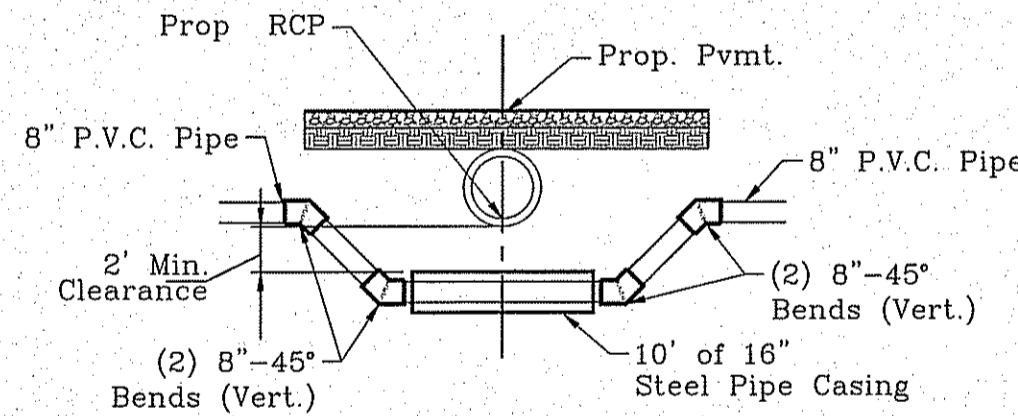


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SCALE: 1" = 100'

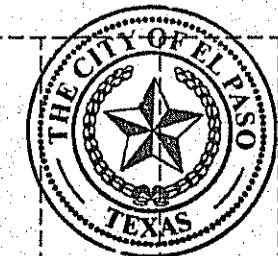


DETAIL "A"
SCALE: NTS



DETAIL "B"
SCALE: NTS

STREET NAMES	PIPE LENGTH, SIZE, AND TYPE
TIERRA MADRID CT.	INSTALL 489 FEET OF 8" P.V.C. PIPE (CLASS 235)
TIERRA MURCIA ST.	INSTALL 1,180 FEET OF 8" P.V.C. PIPE (CLASS 235)
TIERRA BILBAO DR.	INSTALL 1,216 FEET OF 8" P.V.C. PIPE (CLASS 235)
TIERRA OVIEDO AVE.	INSTALL 971 FEET OF 8" P.V.C. PIPE (CLASS 235)
CIAMBRIELLO AVE.	INSTALL 1,395 FEET OF 8" P.V.C. PIPE (CLASS 235)
TIERRA CORUNA AVE.	INSTALL 761 FEET OF 8" P.V.C. PIPE (CLASS 235)
TIERRA VIGO PL.	INSTALL 165 FEET OF 8" P.V.C. PIPE (CLASS 235)
TIERRA BURGOS AVE.	INSTALL 763 FEET OF 8" P.V.C. PIPE (CLASS 235)
FRED ROBERTS DR.	INSTALL 1,005 FEET OF 8" P.V.C. PIPE (CLASS 235)
TIERRA GIJON PL.	INSTALL 867 FEET OF 8" P.V.C. PIPE (CLASS 235)
TIERRA MALAGA PL.	INSTALL 766 FEET OF 8" P.V.C. PIPE (CLASS 235)
TIERRA JUDE LN.	INSTALL 23 FEET OF 8" P.V.C. PIPE (CLASS 235)
ALLEY E	INSTALL 23 FEET OF 8" P.V.C. PIPE (CLASS 235)



Final Approval

BENCHMARK
CITY MONUMENT AT THE CENTERLINE INTERSECTION OF SADDLEHORN PL. AND HOLLY SPRINGS AVE. ELEVATION 4024.74

DATE	REVISIONS	BY
05/04/16	EPWU REDLINES AS PER 05/24/16 COMMENTS	E.J.
05/04/16	EPWU REDLINES AS PER 05/20/16 COMMENTS	E.J.
10/06/16	L&I CITY REDLINES AS PER 9/23/16 COMMENTS	E.J.
12/15/16	EPWU REDLINES AS PER 12/14/16 COMMENTS	E.J.

PROJECT NAME
TIERRA DEL ESTE UNIT 73
BEING PORTION OF SECTION 48, BLOCK 79, TOWNSHIP 2, TEXAS AND PAGO COUNTY, TEXAS, CONTAINING: 62.7664 ACRES

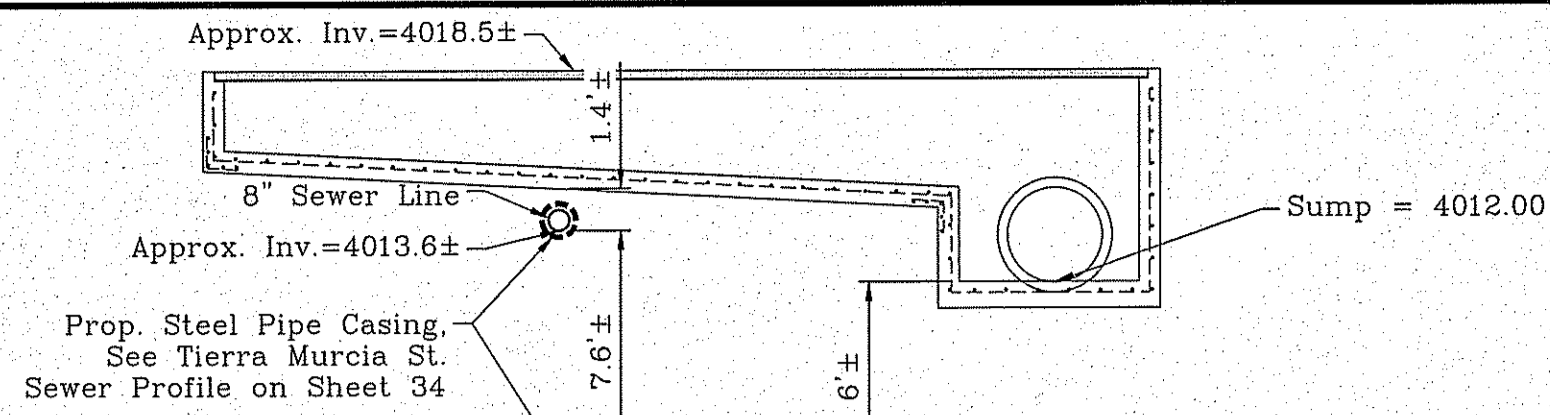
ENGINEER'S SEAL
CONDE INC.
ENGINEERING / PLANNING SURVEYING / GPS
6080 SURETY DR. STE 100
EL PASO, TEXAS 79905
PHONE: (915) 592-0283
FAX: (915) 592-0286

SCALE
HORIZ. AS SHOWN
VERT. SHOWN
DATE: OCT. 2014
DESIGN BY: Y.C.
INITIATED BY: R.R.
CHECKED BY: Y.C.
JOB NO.: 1013-23

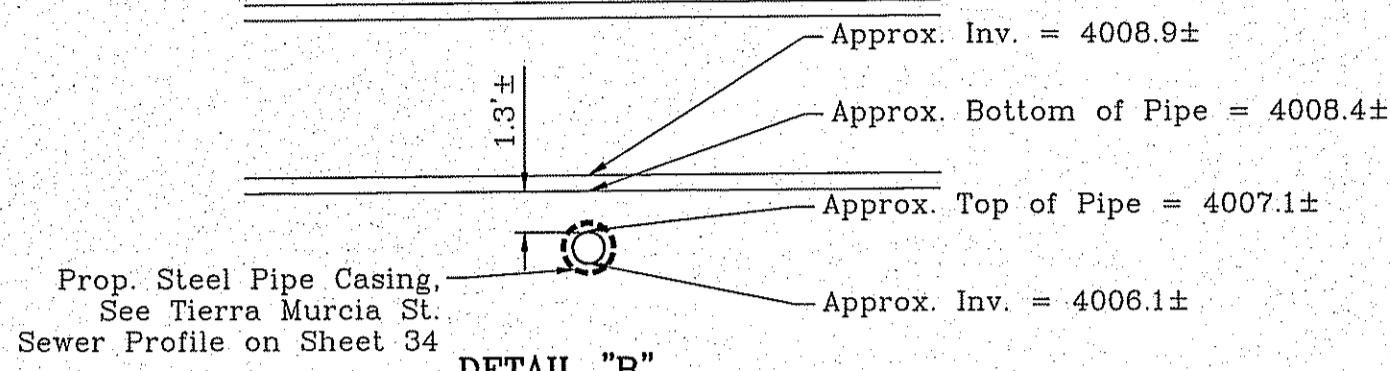
CONDE INC.
ENGINEERING / PLANNING SURVEYING / GPS
6080 SURETY DR. STE 100
EL PASO, TEXAS 79905
PHONE: (915) 592-0283
FAX: (915) 592-0286

SHEET TITLE
WATER DISTRIBUTION PLAN
SHT 31 OF 39

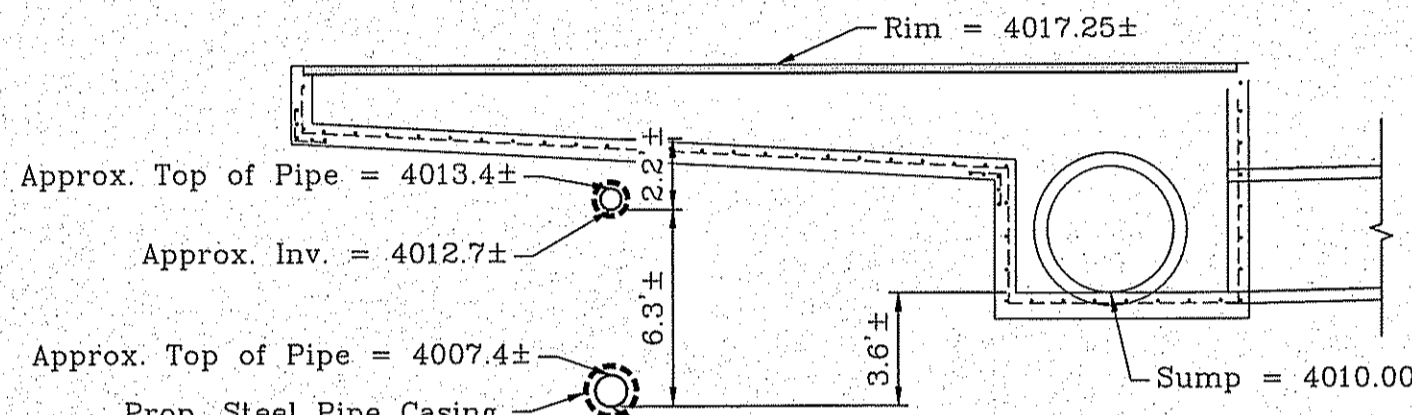
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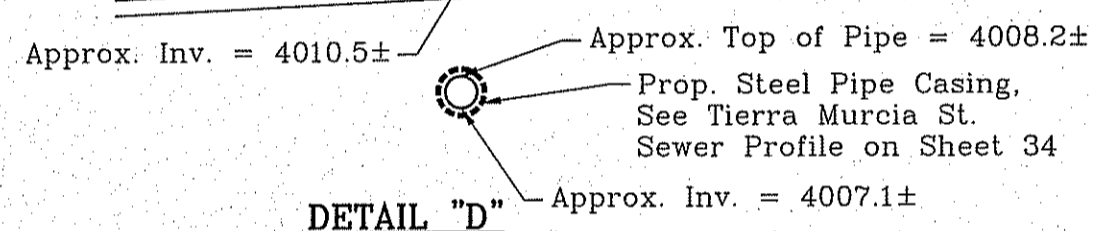
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STORM SEWER STRUCTURE CROSSING
SCALE: NTS



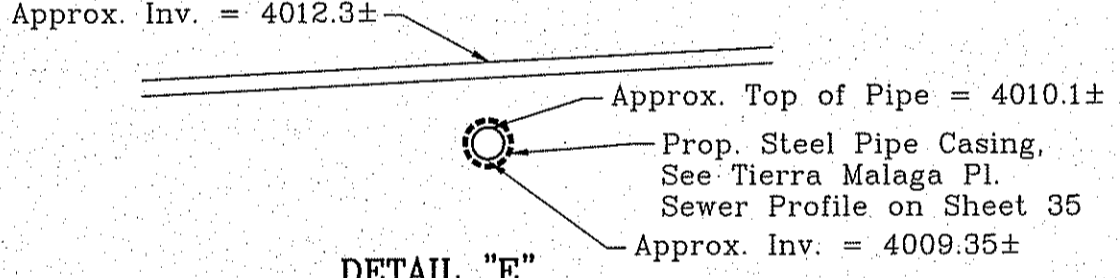
DETAIL "B"
STORM SEWER STRUCTURE CROSSING
SCALE: NTS



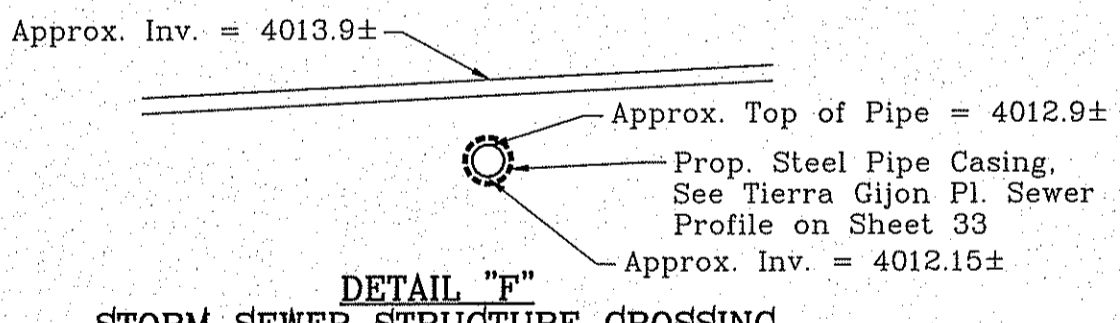
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STORM SEWER STRUCTURE CROSSING
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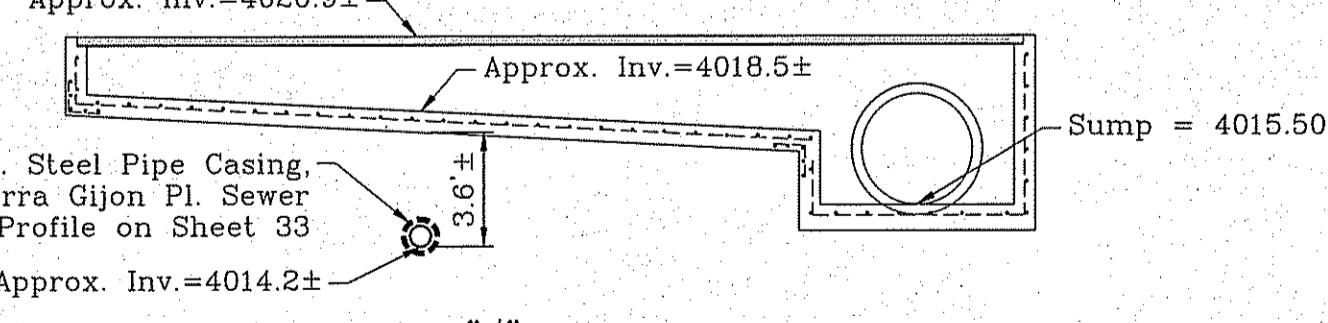
DETAIL "D"
STORM SEWER STRUCTURE CROSSING
SCALE: NTS



DETAIL "E"
STORM SEWER STRUCTURE CROSSING
SCALE: NTS

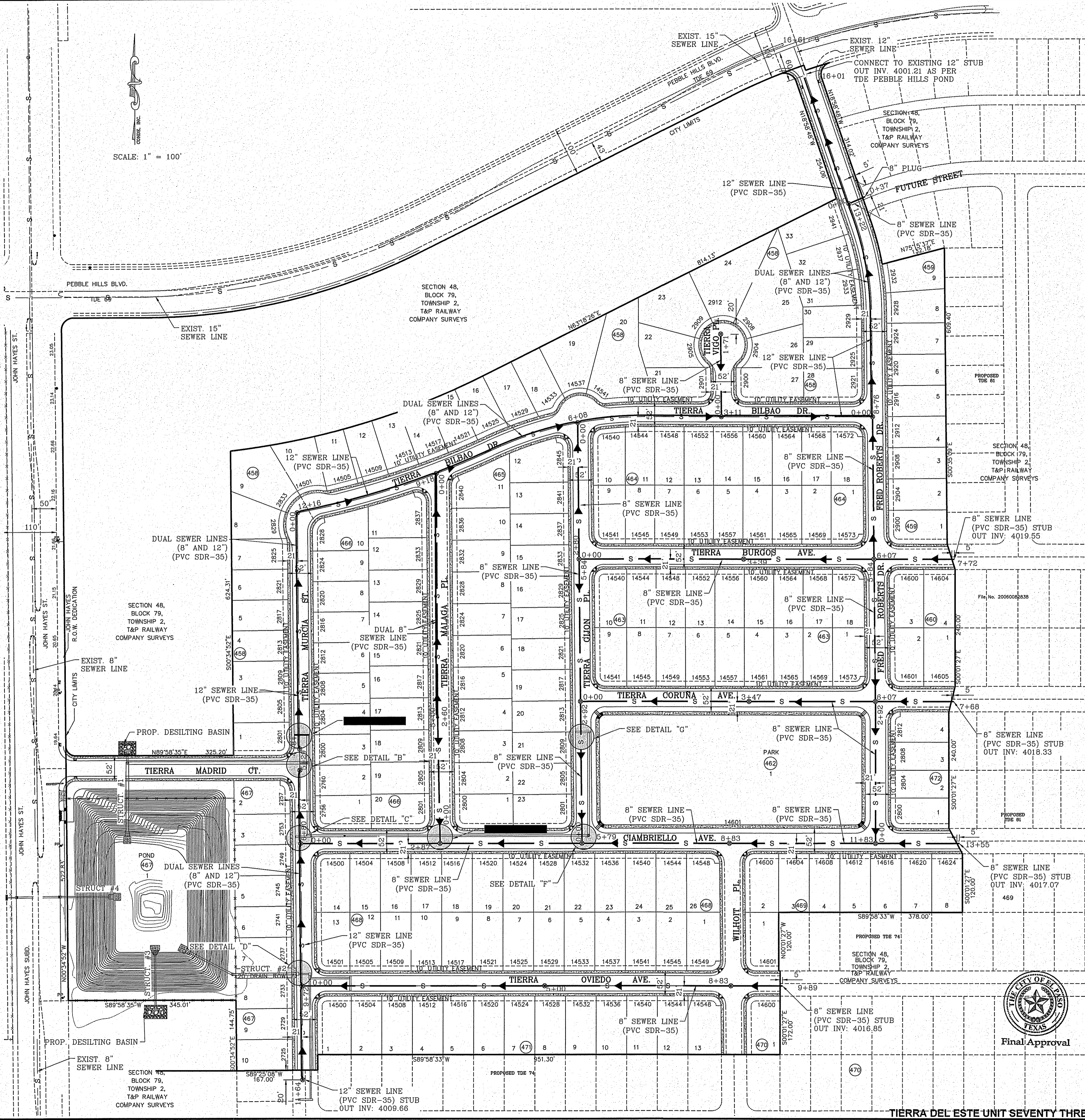


DETAIL "F"
STORM SEWER STRUCTURE CROSSING
SCALE: NTS



DETAIL "G"
STORM SEWER STRUCTURE CROSSING
SCALE: NTS

STREET NAME	PIPE LENGTH, PIPE SIZE, AND TYPE	PROFILE SHEET
TIERRA GIJON PL.	INSTALL 864' OF 8" PVC SDR-35	SHEET 33
TIERRA OVIEDO AVE.	INSTALL 989' OF 8" PVC SDR-35	SHEET 33
TIERRA BURGOS AVE.	INSTALL 772' OF 8" PVC SDR-35	SHEET 33
TIERRA CORUNA AVE.	INSTALL 788' OF 8" PVC SDR-35	SHEET 33
TIERRA MURCIA ST.	INSTALL 1,184' OF 12" PVC SDR-35	SHEET 34
TIERRA MURCIA ST.	INSTALL 1,119' OF 8" PVC SDR-35	SHEET 34
TIERRA BILBAO ST.	INSTALL 1,216' OF 12" PVC SDR-35	SHEET 34
TIERRA BILBAO ST.	INSTALL 1,216' OF 8" PVC SDR-35	SHEET 34
FUTURE STREET STUB OUT	INSTALL 37' OF 8" PVC SDR-35	SHEET 34
TIERRA MALAGA PL.	INSTALL 1,280' OF 8" PVC SDR-35	SHEET 35
CIAMBRIELLO AVE.	INSTALL 1,356' OF 8" PVC SDR-35	SHEET 35
TIERRA VIGO PL.	INSTALL 1,71' OF 8" PVC SDR-35	SHEET 35
FRED ROBERTS DR.	INSTALL 1,322' OF 8" PVC SDR-35	SHEET 35
FRED ROBERTS DR.	INSTALL 725' OF 12" PVC SDR-26	SHEET 35



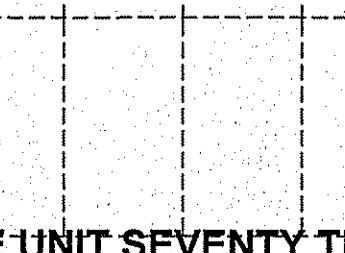
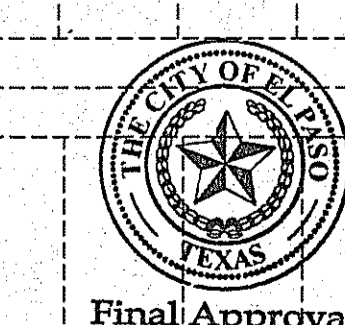
REVISIONS
 DATE
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 06/04/16 EFWU REVISIONS AS PER 05/20/16 COMMENTS E.J.
 08/02/16 ADDITION OF 8" SEWER LINE AS NOTED E.J.
 10/19/16 EFWU REVISIONS AS PER 10/17/16 COMMENTS E.J.

PROJECT NAME
TIERRA DEL ESTE UNIT 73
 BEING PORTION OF SECTION 48, BLOCK 79, TOWNSHIP 2, TEXAS AND PACIFIC RAILWAY CO. SURVEYS, EL PASO COUNTY, TEXAS CONTAINING: 52.766± ACRES

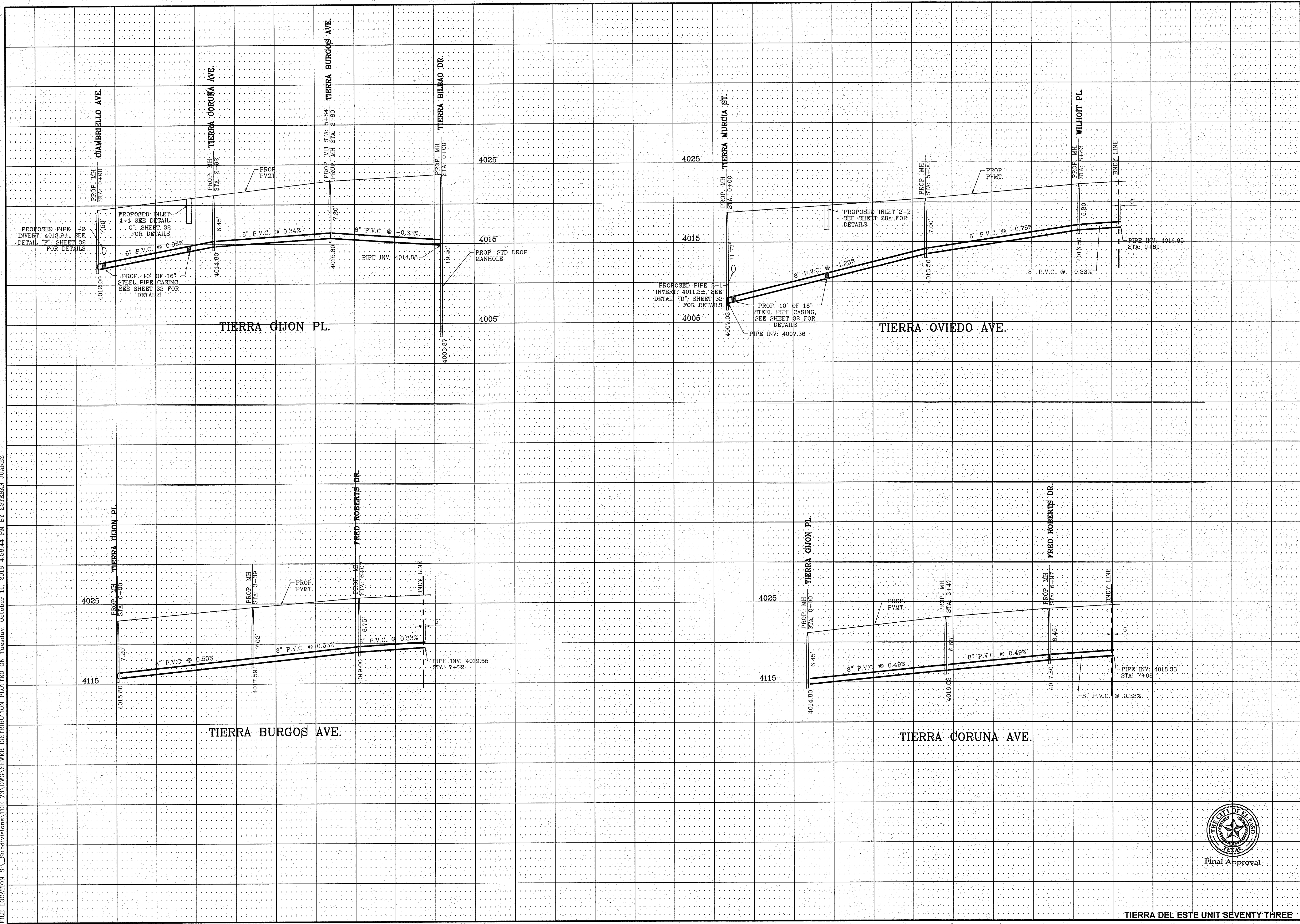
SCALE
 HORIZ. AS SHOWN
 VERT. SHOWN
 DATE: OCT. 2014
 DESIGN BY: Y.C.
 INITIATED BY: R.R.
 CHECKED BY: Y.C.
 JOB NO.: 1013-23

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

CONDE INC. REGISTRATION NO. F-321
 SHEET TITLE
SEWER DISTRIBUTION PLAN
 SHT 32 OF 39

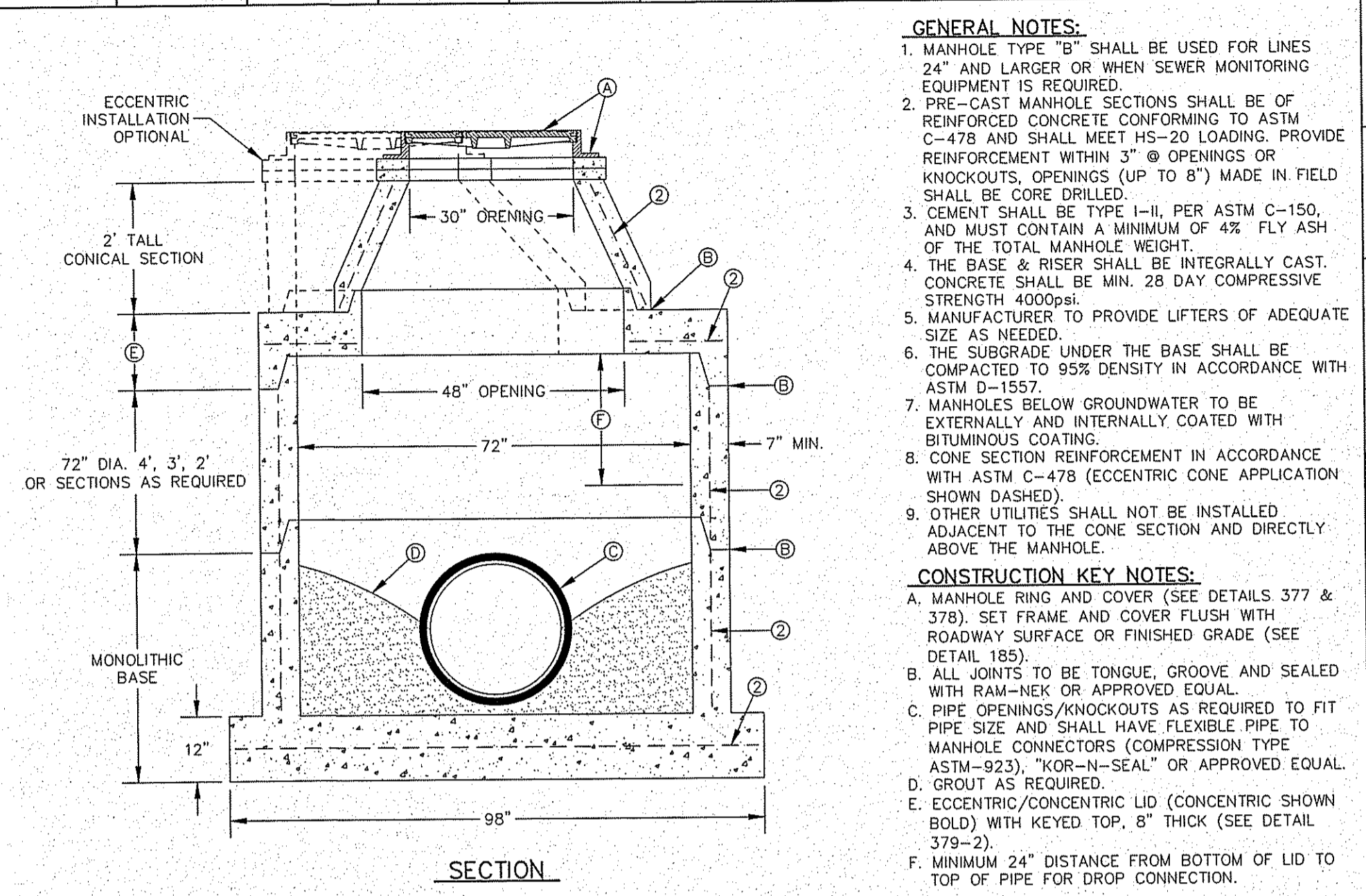
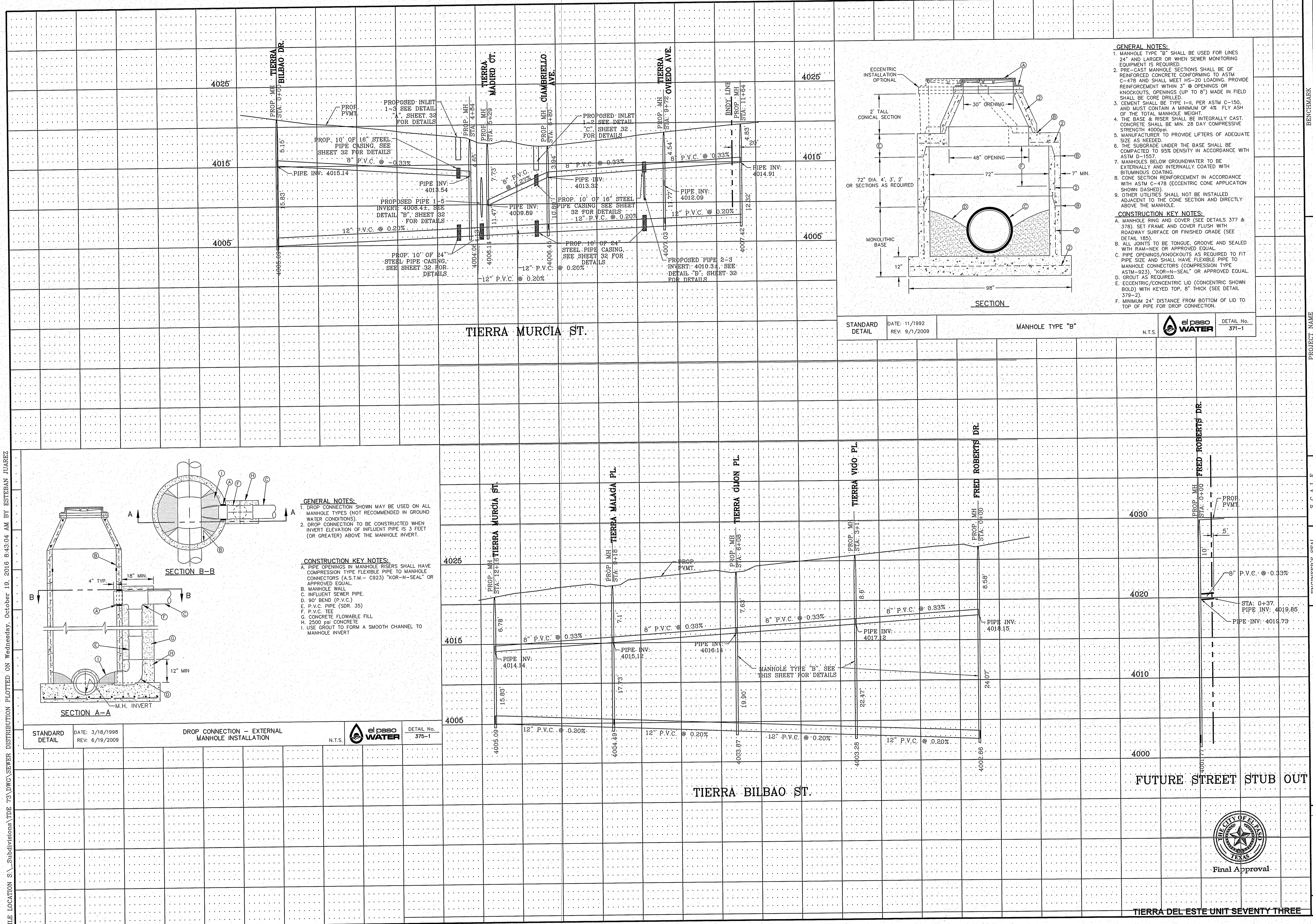


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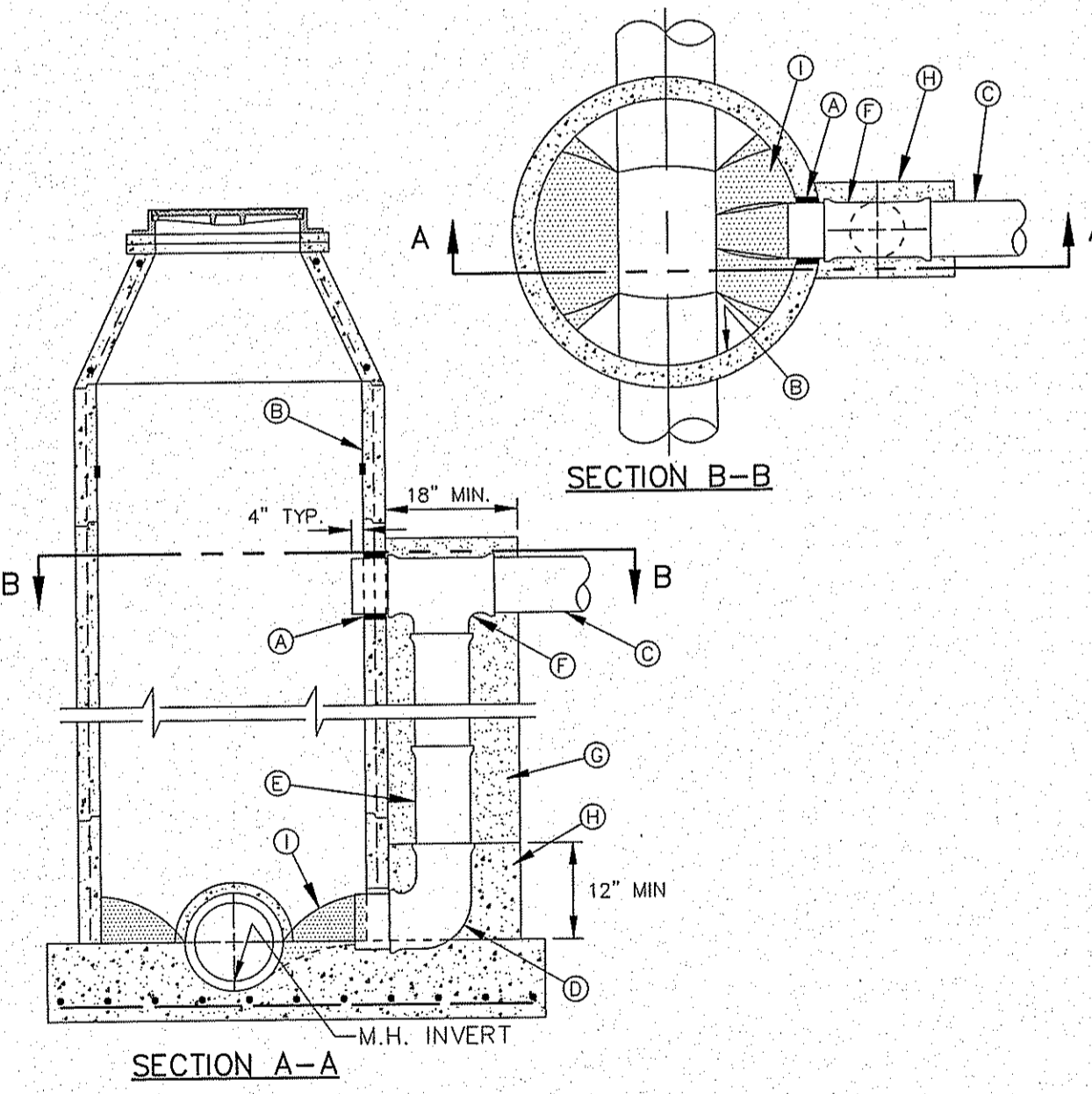


<p>CONDE INC. ENGINEERING / PLANNING SURVEYING / GPS 6080 SURREY DR. STE 100 EL PASO, TEXAS 79905 PHONE: (915) 592-0283 FAX: (915) 592-0286</p>		<p>ENGINEER'S SEAL WYOMING CURRY 04648 REGISTERED PROFESSIONAL ENGINEER CIVIL STATE OF TEXAS</p>		<p>SCALE HORIZ: 1"=100' VERT: 1"=5'</p>		<p>DATE: OCT. 2014 DESIGN BY: Y.C. INITIATED BY: R.R. CHECKED BY: Y.C. JOB NO.: 1013-23</p>	
<p>PROJECT NAME TIERRA DEL ESTE UNIT 73 BEING PORTION OF SECTION 48, BLOCK 79, TOWNSHIP 2, TEXAS AND PACIFIC RAILWAY Co. SURVEYS, EL PASO COUNTY, TEXAS CONTAINING: 62.766± ACRES</p>				<p>BENCHMARK CITY MONUMENT AT THE CENTERLINE INTERSECTION OF SADDLEHORN PL. AND HOLLY SPRINGS AVE. ELEVATION 4024.74</p>			
<p>REVISIONS</p>		<p>DATE</p>		<p>BY</p>			
<p>05/04/16 EPWU REDLINES AS PER 03/24/16 COMMENTS E.J.</p>		<p>05/04/16 EPWU REDLINES AS PER 05/20/16 COMMENTS E.J.</p>		<p>08/02/16 MANHOLE REVISIONS AS PER DUAL LINE ADDITION E.J.</p>			
<p>SHT 33 OF 39</p>							

FILE LOCATION S:\Subdivisions\TDE 73 DWG SEWER DISTRIBUTION PLOTTED ON Wednesday, October 19, 2016 8:43:04 AM BY ESTEBAN JUAREZ



STANDARD DETAIL DATE: 11/1992 REV: 9/1/2009 MANHOLE TYPE "B" el paso WATER N.T.S. DETAIL No. 371-1



GENERAL NOTES:
 1. DROP CONNECTION SHOWN MAY BE USED ON ALL MANHOLE TYPES (NOT RECOMMENDED IN GROUND WATER CONDITIONS)
 2. DROP CONNECTION TO BE CONSTRUCTED WHEN INVERT ELEVATION OF INFLUENT PIPE IS 3 FEET (OR GREATER) ABOVE THE MANHOLE INVERT.

CONSTRUCTION KEY NOTES:
 A. PIPE OPENINGS IN MANHOLE RISERS SHALL HAVE COMPRESSION TYPE FLEXIBLE PIPE TO MANHOLE CONNECTORS (A.S.T.M. - C923) "KOR-N-SEAL" OR APPROVED EQUAL.
 B. MANHOLE WALL
 C. INFLUENT SEWER PIPE.
 D. 90° BEND (P.V.C.)
 E. P.V.C. PIPE (SDR 35)
 F. P.V.C. TEE
 G. CONCRETE FLOWABLE FILL
 H. 2500 PSI CONCRETE
 I. USE GROUT TO FORM A SMOOTH CHANNEL TO MANHOLE INVERT

STANDARD DETAIL DATE: 3/18/1998 REV: 6/19/2009 DROP CONNECTION - EXTERNAL MANHOLE INSTALLATION el paso WATER N.T.S. DETAIL No. 375-1

GENERAL NOTES:
 1. MANHOLE TYPE "B" SHALL BE USED FOR LINES 24" AND LARGER OR WHEN SEWER MONITORING EQUIPMENT IS REQUIRED.
 2. PRE-CAST MANHOLE SECTIONS SHALL BE OF REINFORCED CONCRETE CONFORMING TO ASTM C-478 AND SHALL MEET HS-20 LOADING. PROVIDE REINFORCEMENT WITHIN 3" @ OPENINGS OR KNOCKOUTS. OPENINGS (UP TO 8") MADE IN FIELD SHALL BE CORE DRILLED.
 3. CEMENT SHALL BE TYPE I-II, PER ASTM C-150, AND MUST CONTAIN A MINIMUM OF 4% FLY ASH OF THE TOTAL MANHOLE WEIGHT.
 4. THE BASE & RISER SHALL BE INTEGRALLY CAST. CONCRETE SHALL BE MIN. 28 DAY COMPRESSIVE STRENGTH 4000psi.
 5. MANUFACTURER TO PROVIDE LIFTERS OF ADEQUATE SIZE AS NEEDED.
 6. THE SUBGRADE UNDER THE BASE SHALL BE COMPACTED TO 95% DENSITY IN ACCORDANCE WITH ASTM D-1557.
 7. MANHOLES BELOW GROUNDWATER TO BE EXTERNALLY AND INTERNALLY COATED WITH BITUMINOUS COATING.
 8. CONE SECTION REINFORCEMENT IN ACCORDANCE WITH ASTM C-478 (ECCENTRIC CONE APPLICATION SHOWN DASHED).
 9. OTHER UTILITIES SHALL NOT BE INSTALLED ADJACENT TO THE CONE SECTION AND DIRECTLY ABOVE THE MANHOLE.

CONSTRUCTION KEY NOTES:
 A. MANHOLE RING AND COVER (SEE DETAILS 377 & 378). SET FRAME AND COVER FLUSH WITH ROADWAY SURFACE OR FINISHED GRADE (SEE DETAIL 185).
 B. ALL JOINTS TO BE TONGUE GROOVE AND SEALED WITH RAM-NEK OR APPROVED EQUAL.
 C. PIPE OPENINGS/KNOCKOUTS AS REQUIRED TO FIT PIPE SIZE AND SHALL HAVE FLEXIBLE PIPE TO MANHOLE CONNECTORS (COMPRESSION TYPE ASTM-923), "KOR-N-SEAL" OR APPROVED EQUAL. GROUT AS REQUIRED.
 D. GROUT AS REQUIRED.
 E. ECCENTRIC/CONCENTRIC LID (CONCENTRIC SHOWN BOLD) WITH KEYS TOP, 8" THICK (SEE DETAIL 379-2).
 F. MINIMUM 24" DISTANCE FROM BOTTOM OF LID TO TOP OF PIPE FOR DROP CONNECTION.

PROJECT NAME: TIERRA DEL ESTE UNIT 73
 BEING PORTION OF SECTION 48, BLOCK 79, TOWNSHIP 2, EL PASO COUNTY, TEXAS
 CONTAINING: 52.766± ACRES

ENGINEER'S SEAL: [Professional Engineer Seal]

CONDE INC.:
 ENGINEERING / PLANNING / SURVEYING / GPS
 6060 SURETY DR. STE 100
 EL PASO, TEXAS 79905
 PHONE: (915) 592-0283
 FAX: (915) 592-0266

CITY OF EL PASO TEXAS:
 Final Approval

SCALES:
 HORIZ: 1"=100'
 VERT: 1"=5'

DATE: OCT. 2014
DESIGN BY: Y.C.
INITIATED BY: Y.C.
CHECKED BY: Y.C.
JOB NO.: 1013-23

REVISIONS:

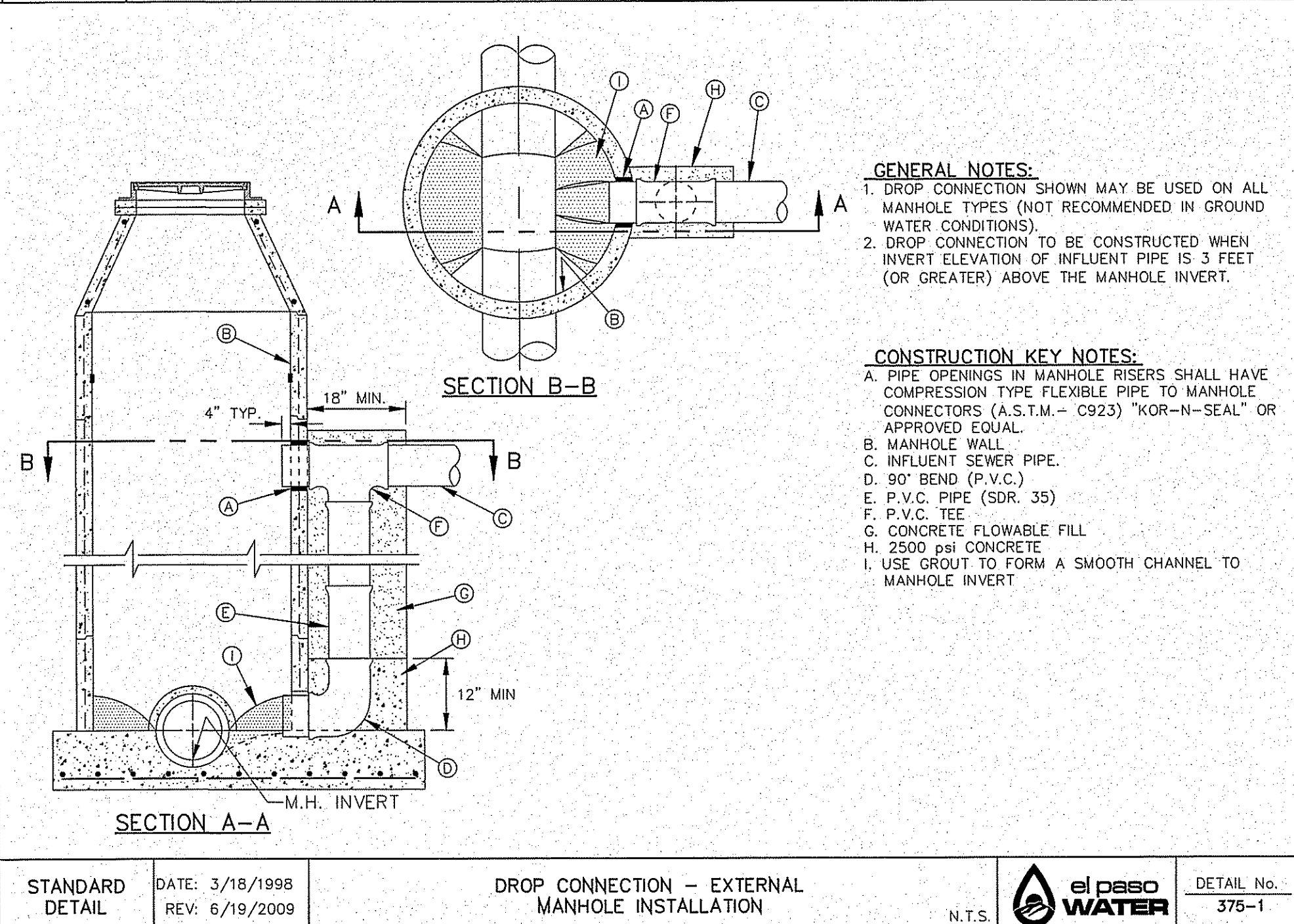
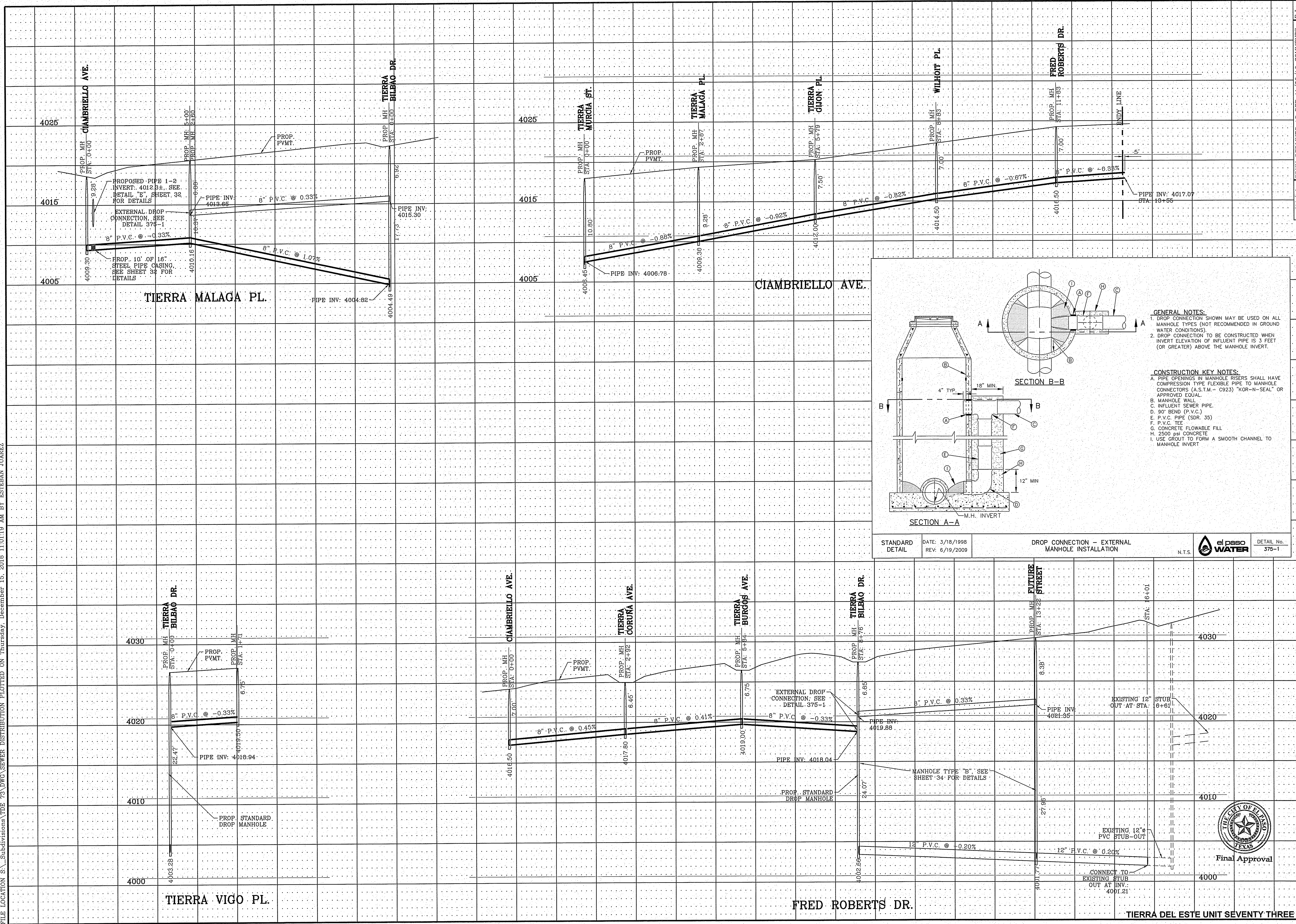
DATE	REVISIONS	BY
05/04/16	EPWU REDELINES AS PER 03/24/16 COMMENTS	E.J.
05/04/16	EPWU REDELINES AS PER 05/20/16 COMMENTS	E.J.
08/02/16	ADDITION OF 8" SEWER LINE AS NOTED	E.J.
10/19/16	EPWU REDELINES AS PER 10/17/16 COMMENTS	E.J.

BENCHMARK: CITY MONUMENT AT THE CENTERLINE INTERSECTION OF SADDLEHORN PL. AND HOLLY SPRINGS AVE. ELEVATION 4024.74
 NAVD88 DATUM

SHEET TITLE: SEWER PROFILES

SHT 34 OF 39

FILE LOCATION S:\Subdivisions\DE 73\DWG\SEWER DISTRIBUTION PLOTTED ON Thursday, December 15, 2016 11:01:19 AM BY ESTEBAN JUÁREZ



PROJECT NAME: TIERRA DEL ESTE UNIT 73
BENCHMARK: CITY MONUMENT AT THE CENTERLINE INTERSECTION OF SADDLEHORN PL. AND HOLLY SPRINGS AVE. ELEVATION 4024.74

SCALE: HORIZ: 1"=100'
 VERT: 1"=5'

DATE: OCT. 2014
DESIGN BY: Y.C.
INITIATED BY: R.R.
CHECKED BY: Y.C.
JOB NO.: 1013-23

REVISIONS:

DATE	BY	REVISIONS
05/04/16	EPWU	REDLINES AS PER 03/24/16 COMMENTS E.J.
05/04/16	EPWU	REDLINES AS PER 05/20/16 COMMENTS E.J.
09/02/16	Y.C.	ADDITION OF 8" SEWER LINE AS NOTED E.J.
10/19/16	EPWU	REDLINES AS PER 10/17/16 COMMENTS E.J.

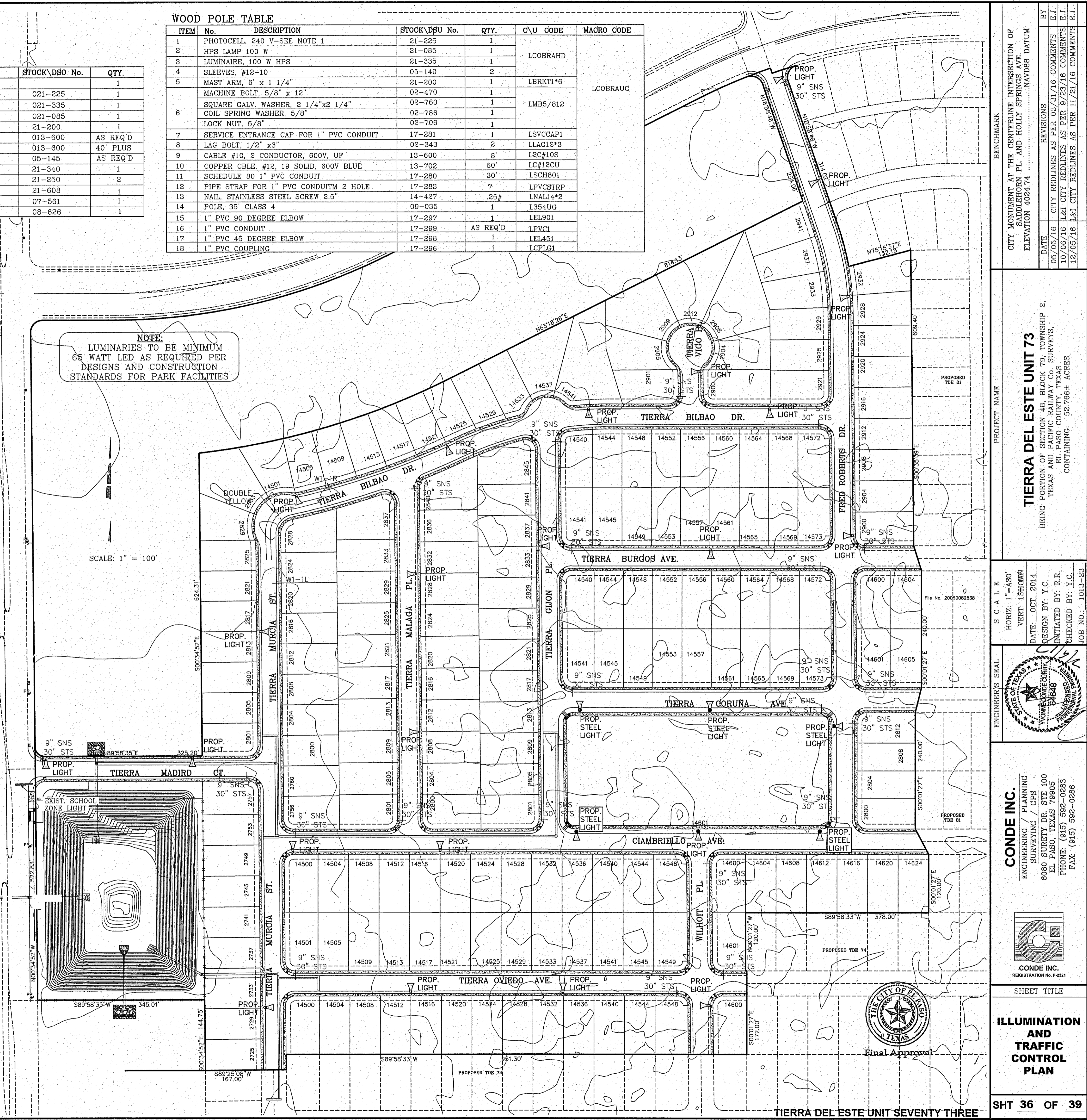
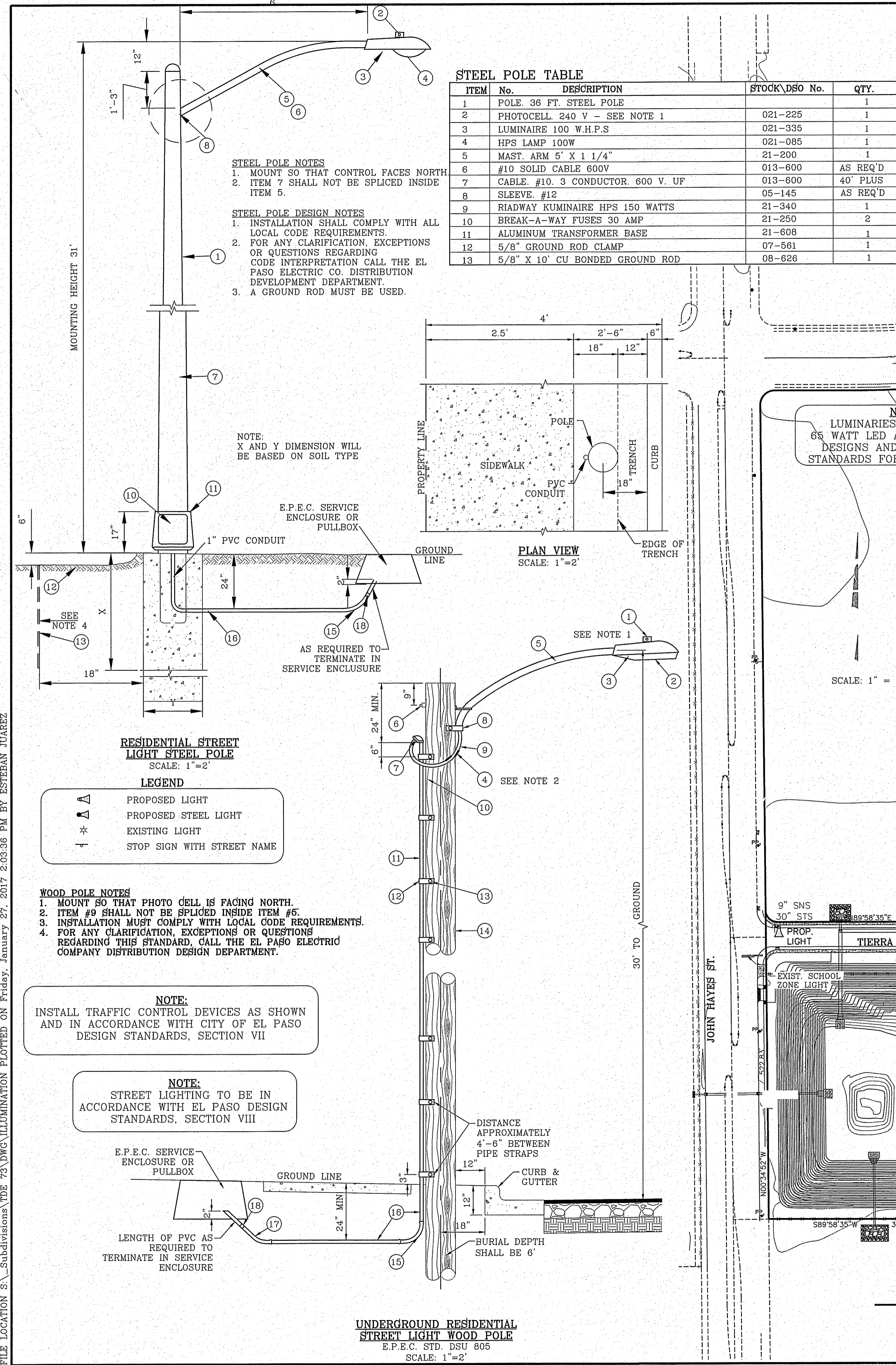
ENGINEER'S SEAL: [Professional Engineer Seal]

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

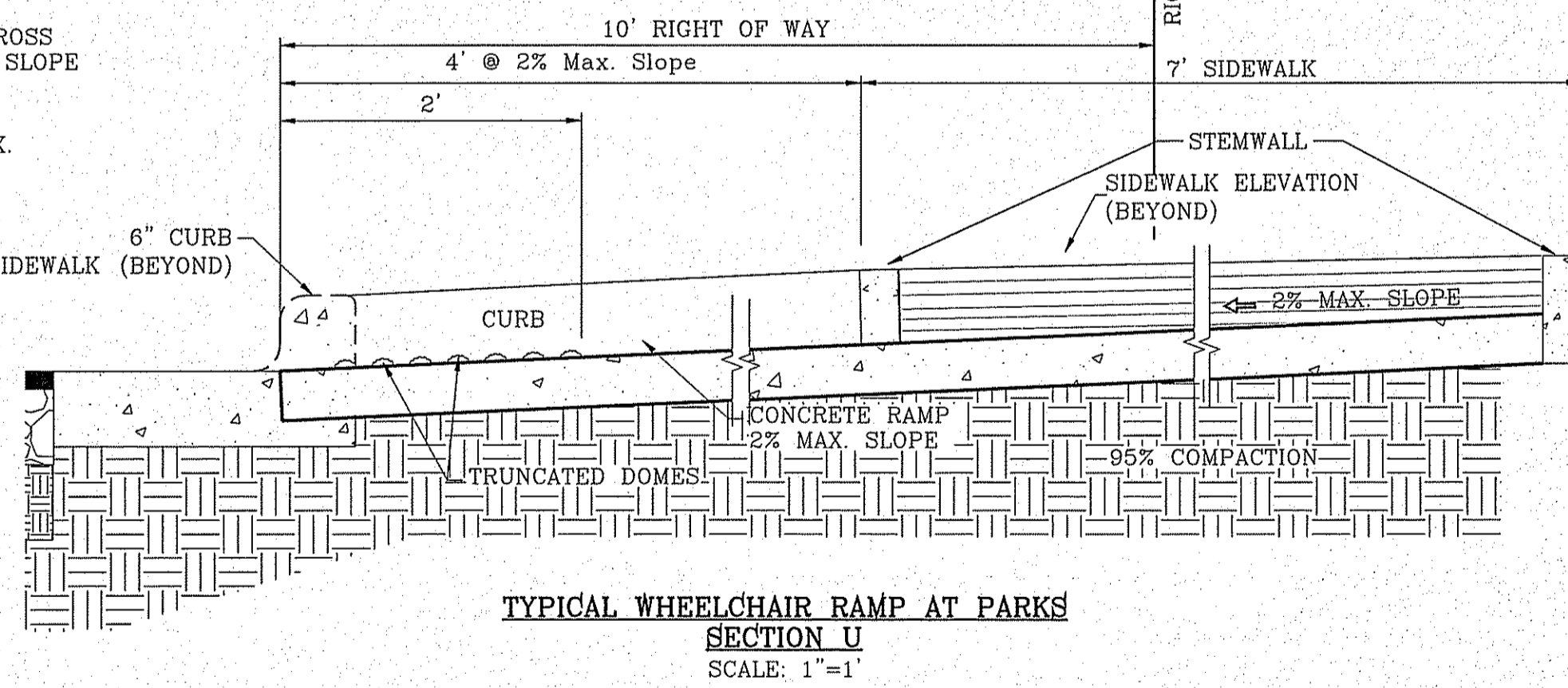
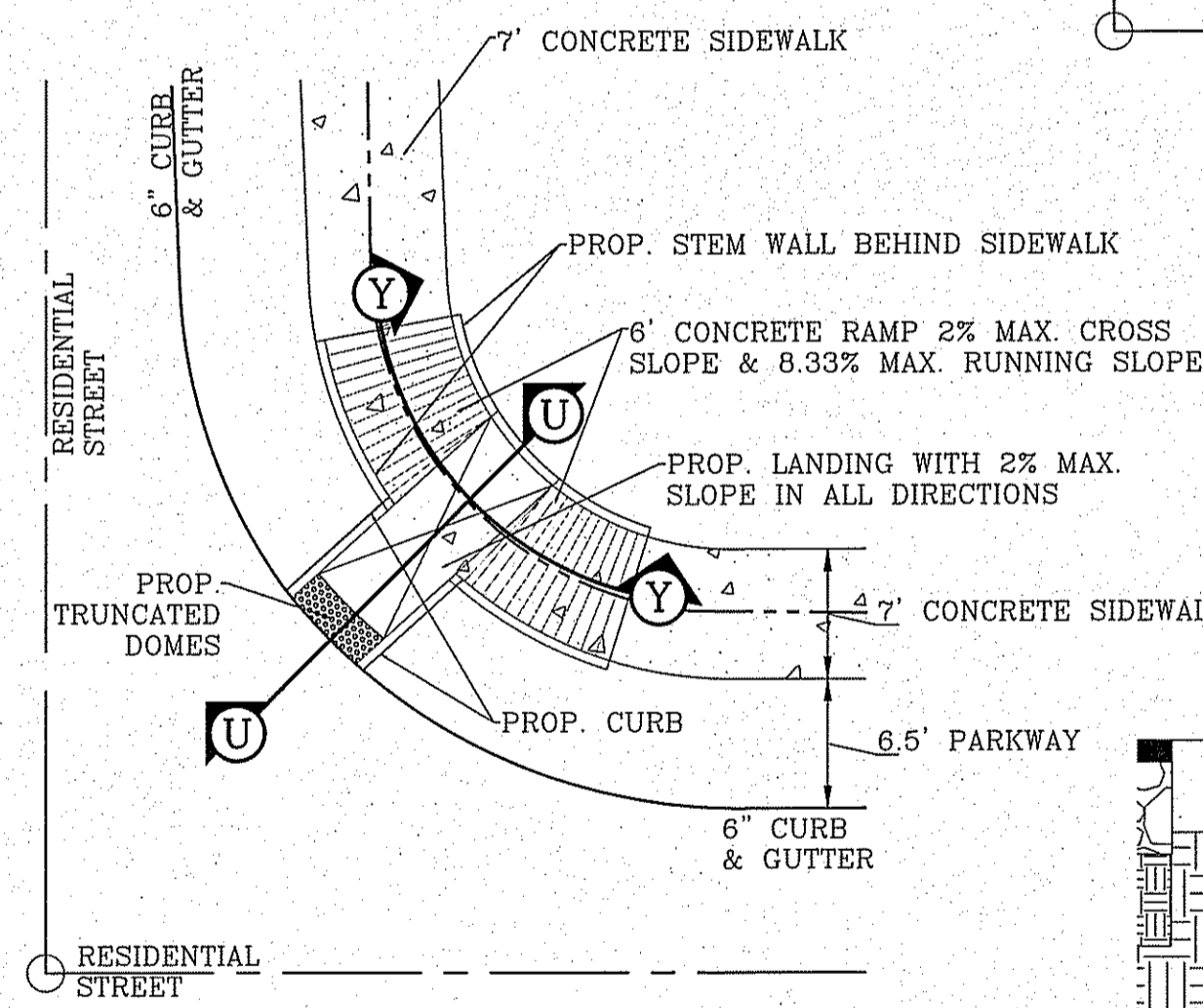
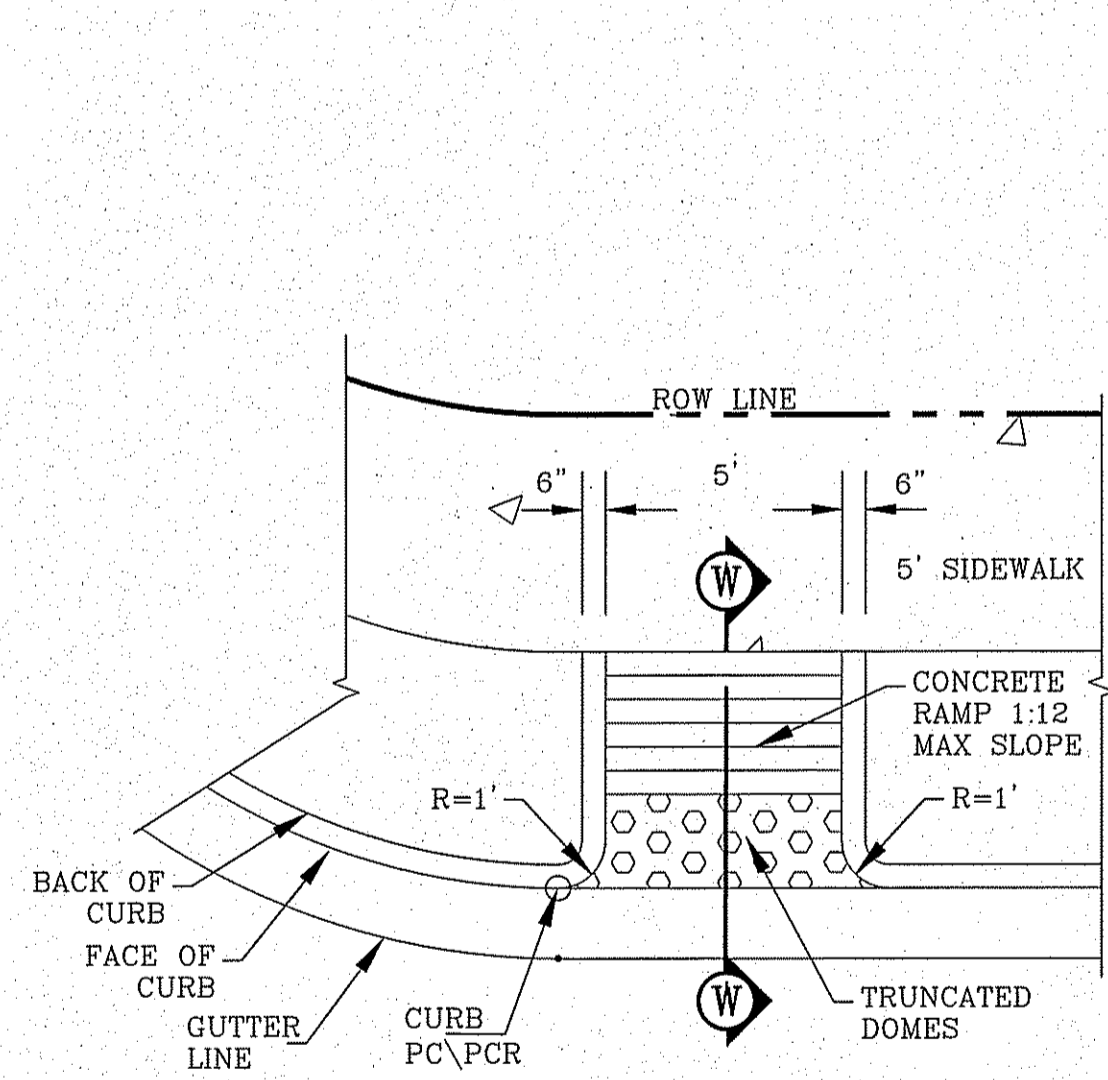
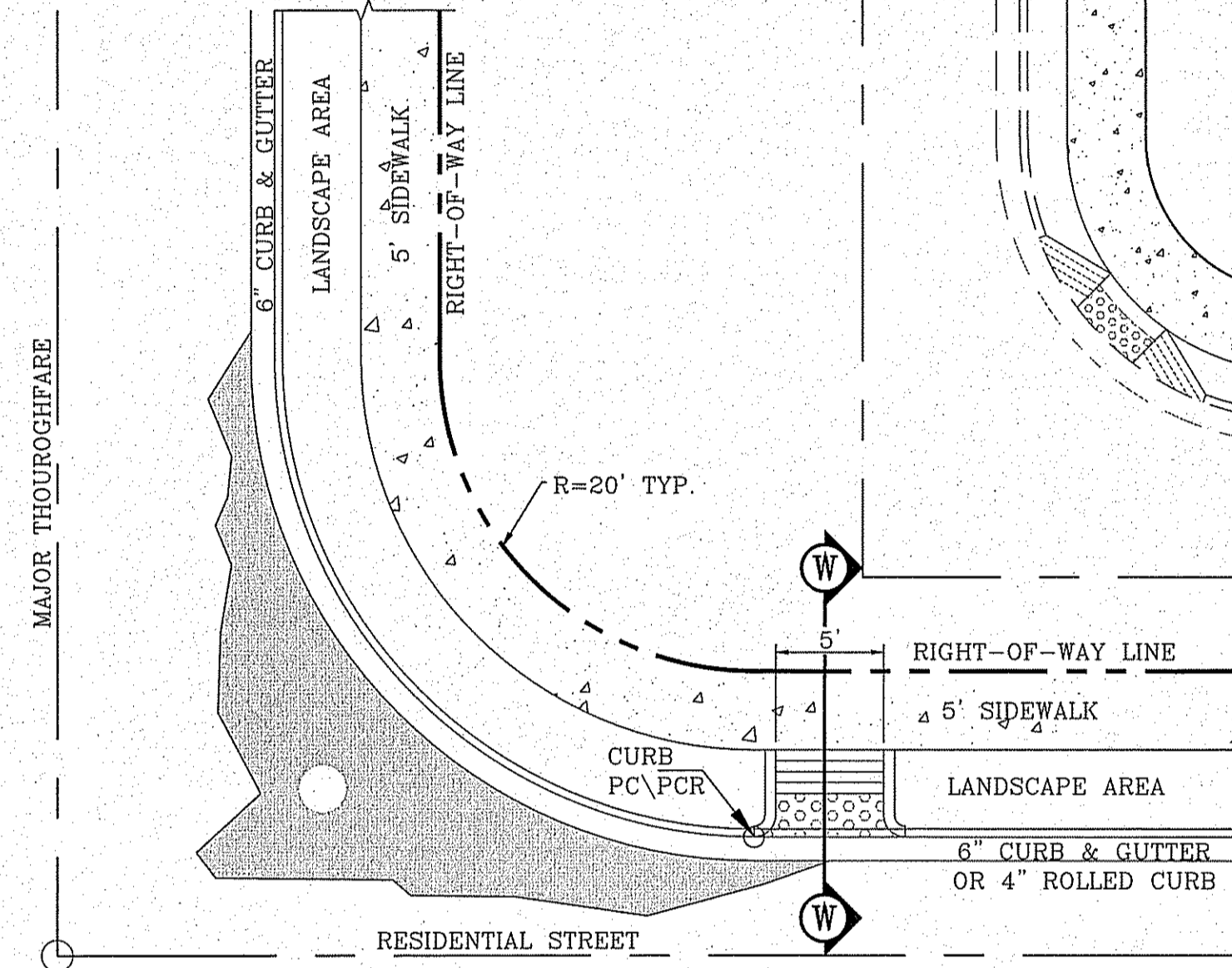
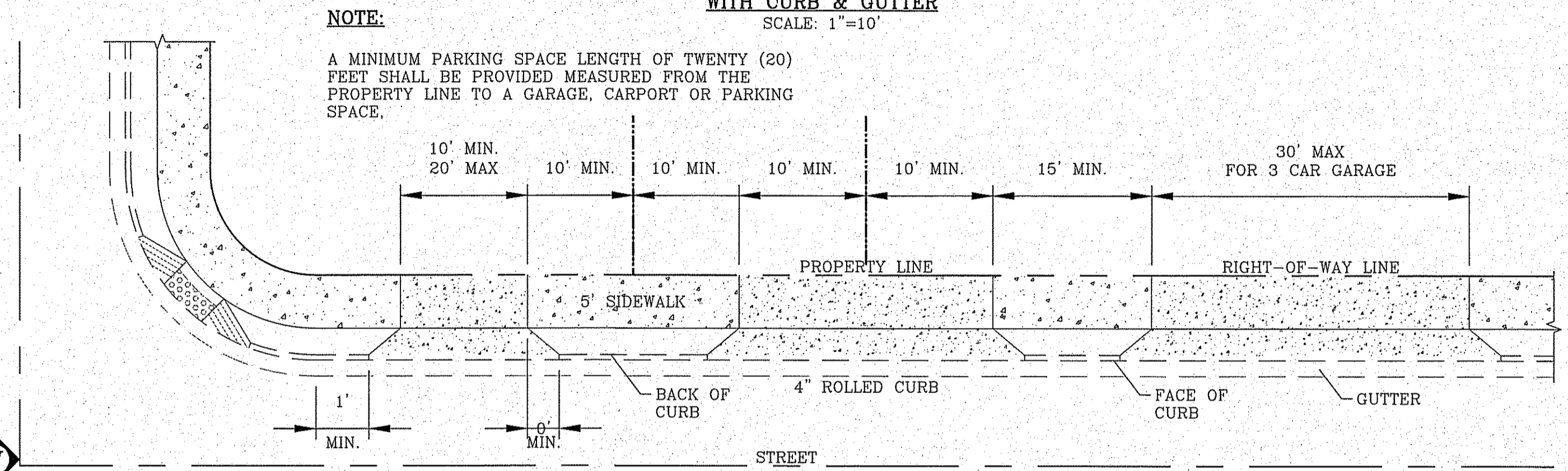
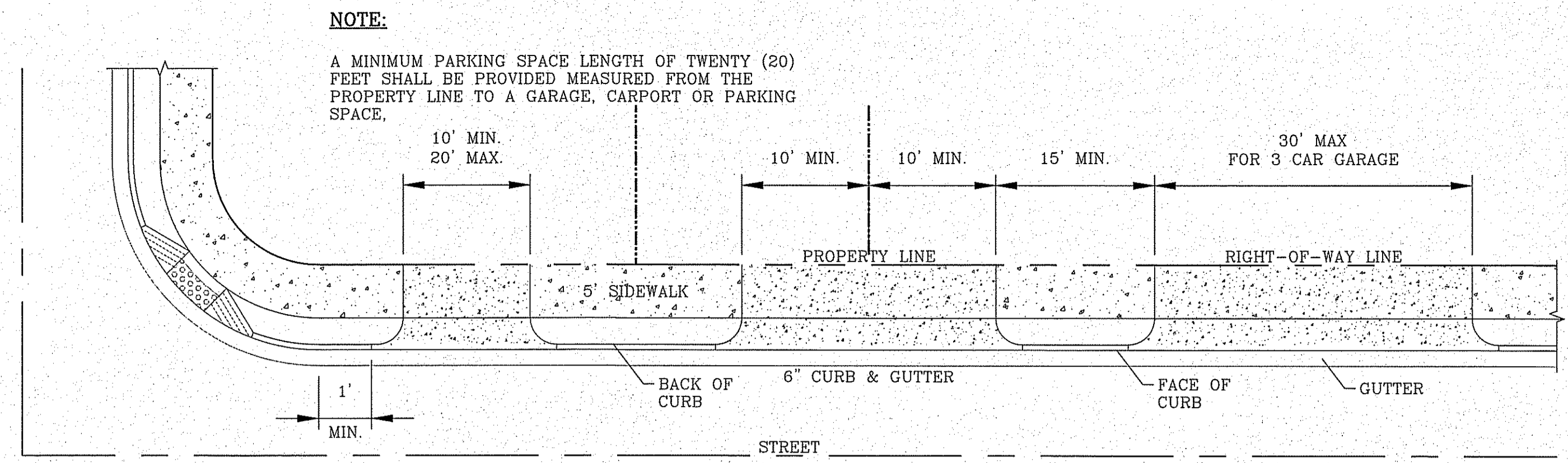
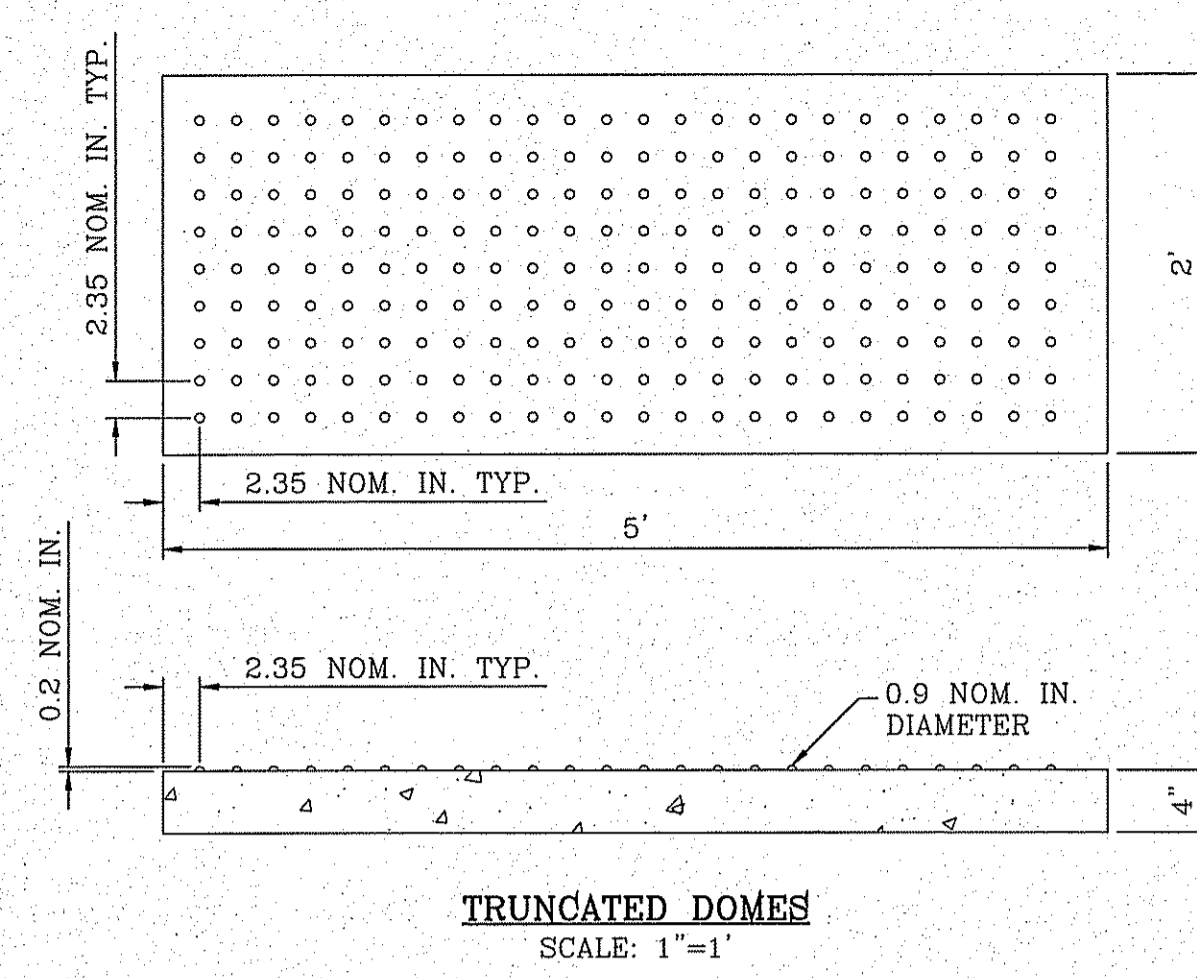
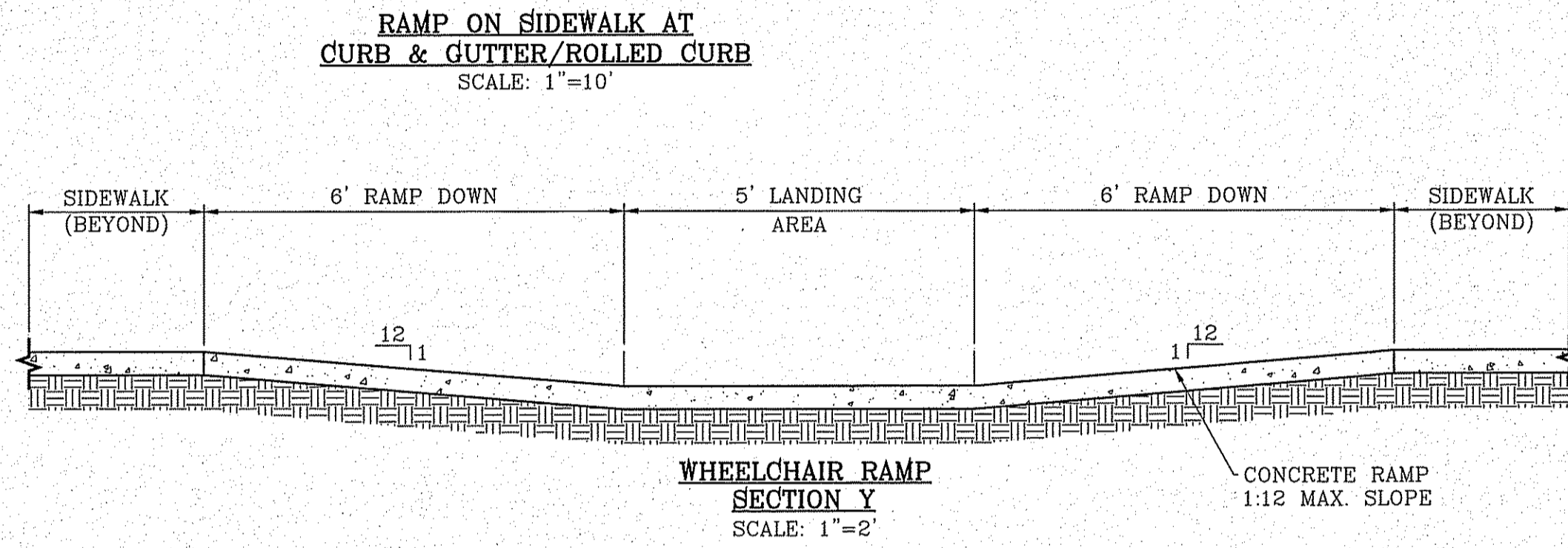
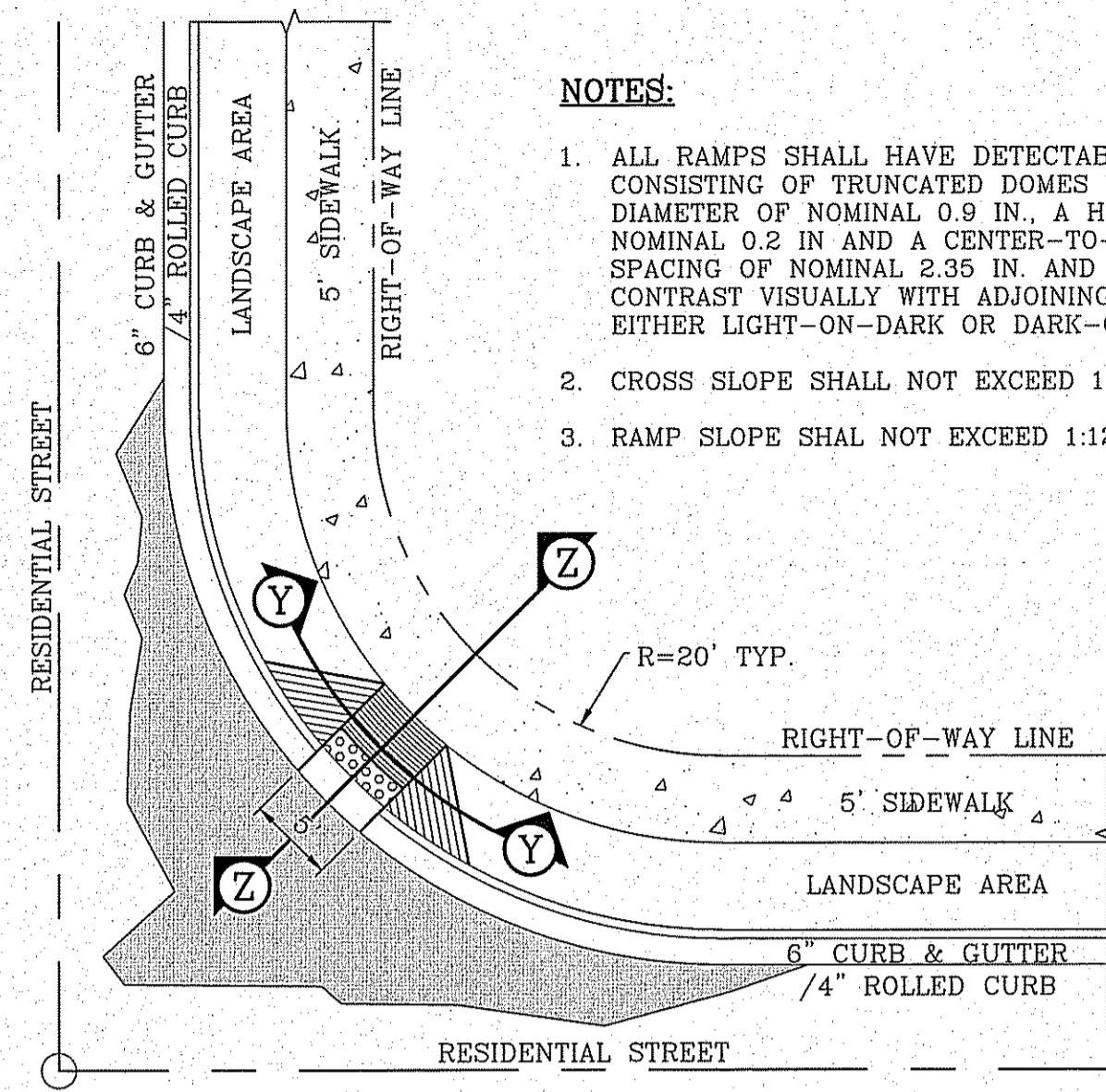
SHEET TITLE: SEWER PROFILES

SHT 35 OF 39

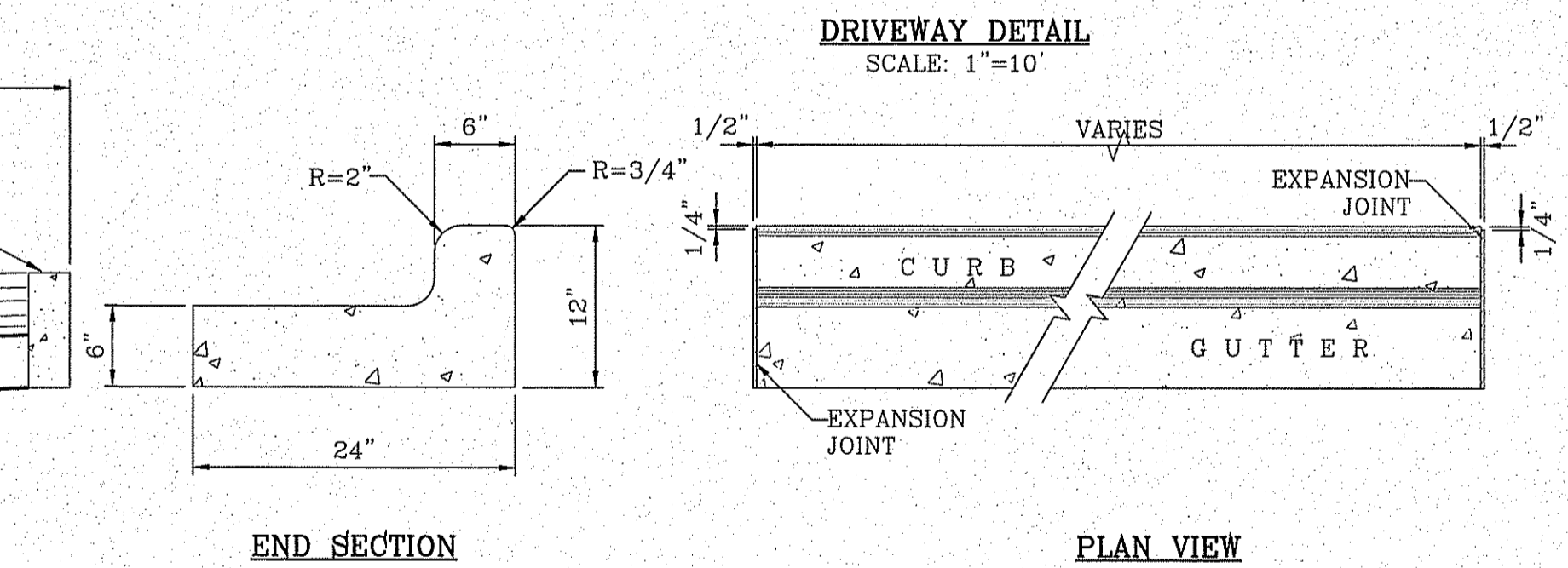
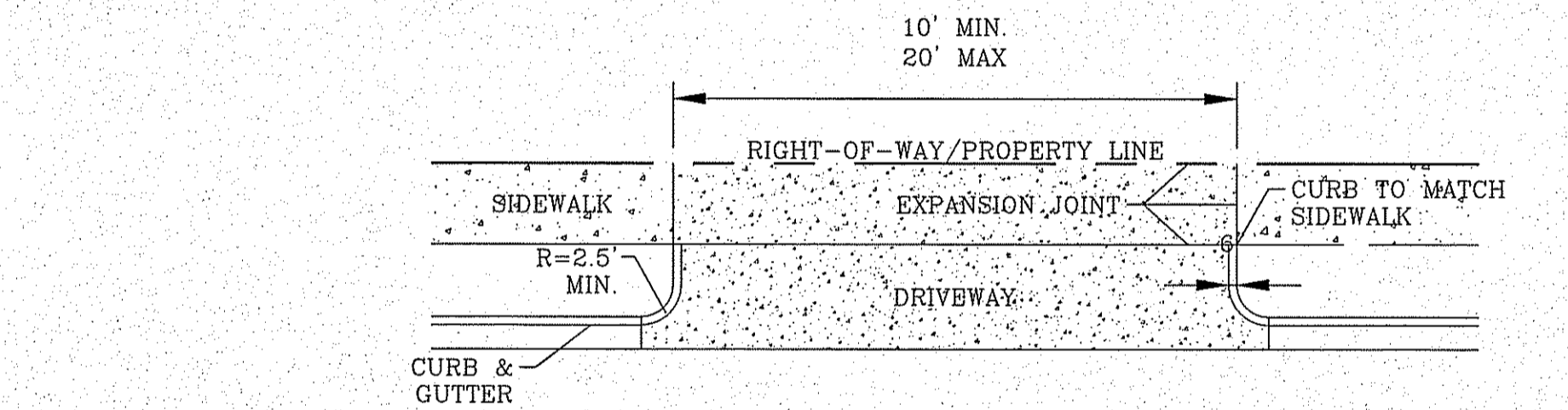
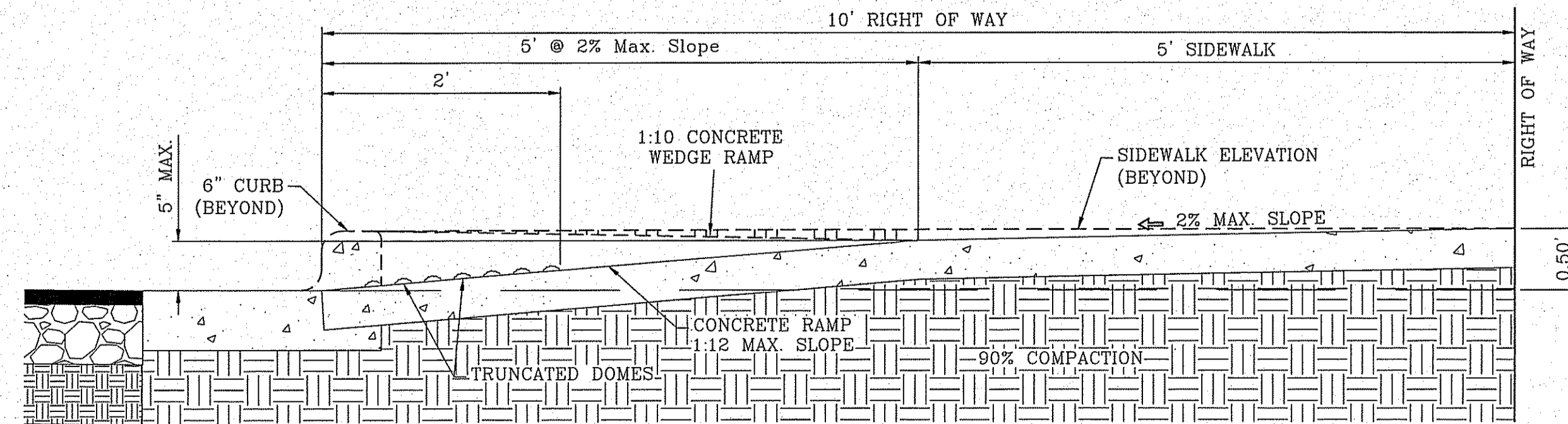
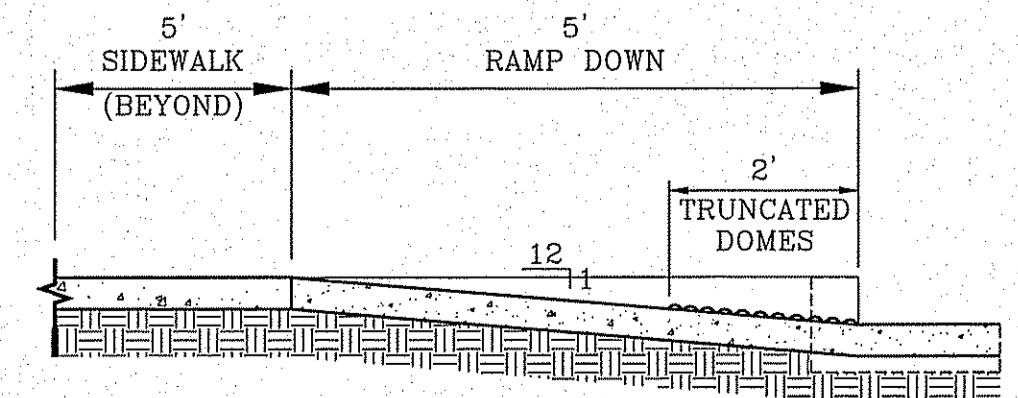
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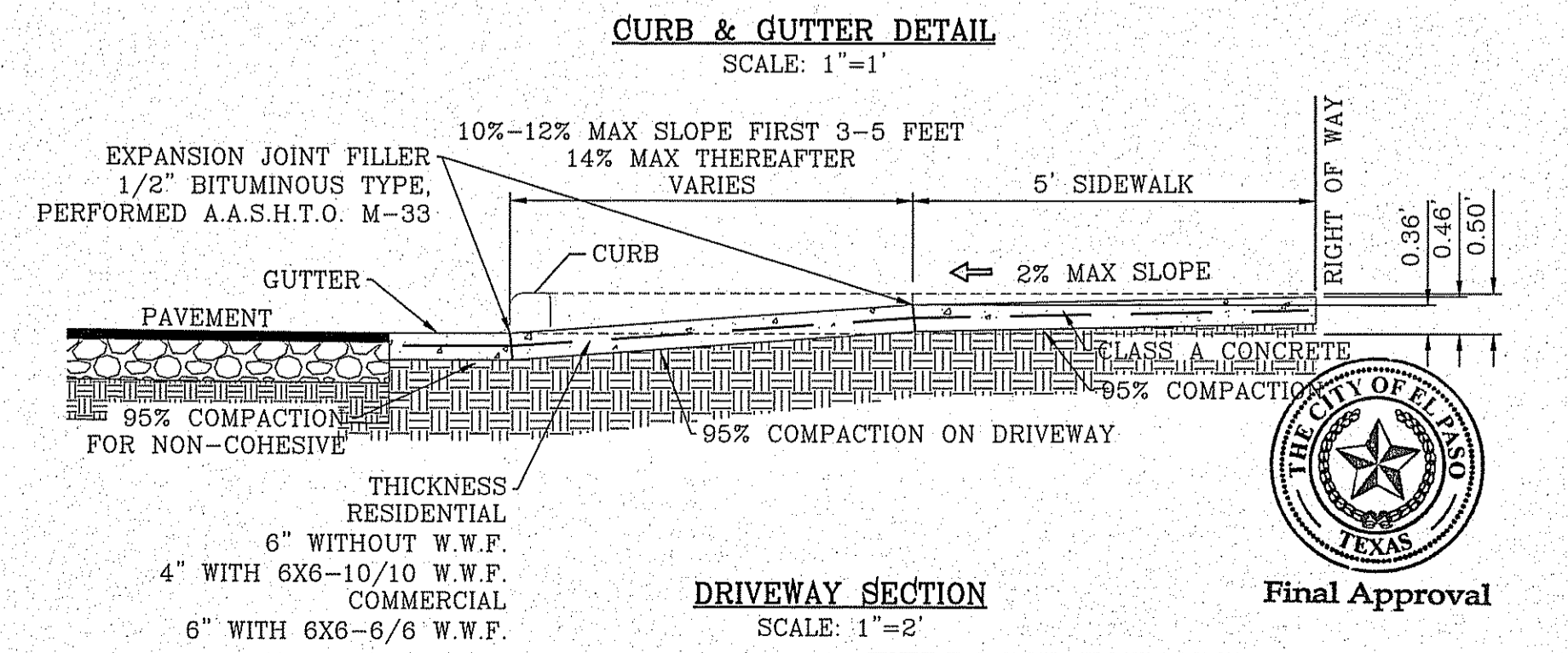
FILE LOCATION S:\Subdivisions\TDE 73\DWG\DETAILS PLOTTED ON Tuesday, October 11, 2016 4:59:57 PM BY ESTEBAN JUAREZ



ALL ACCESSIBLE ROUTES SHALL NOT EXCEED A RUNNING SLOPE GREATER THAN 1:20. NOWHERE SHALL THE CROSS SLOPE OF AN ACCESSIBLE ROUTE EXCEED 1:50. MAXIMUM SLOPES OF ADJOINING GUTTERS, ROAD SURFACE IMMEDIATELY ADJACENT TO THE CURB RAMP OR ACCESSIBLE ROUTE SHALL NOT EXCEED 1:20. PARKING SPACES AND ACCESS AISLES SHALL BE LEVEL WITH SURFACE SLOPES NOT EXCEEDING 1:50 IN ALL DIRECTIONS. NEW WHEELCHAIR RAMP SHALL NOT EXCEED A SLOPE OF 1:12.



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



BENCHMARK	CITY MONUMENT AT THE CENTERLINE INTERSECTION OF SADDLEHORN PL. AND HOLLY SPRINGS AVE. ELEVATION 4024.74
DATE	05-06-2016
BY	R.G.
REVISIONS	CITY REDLINES INSURE/09/16 COMMENTS

PROJECT NAME
TIERRA DEL ESTE UNIT 73

ENGINEER'S SEAL
HORIZ. AS-NOTED
VERT. 1"=16'
DATE OCT. 2014
DESIGN BY: Y.C.
INITIATED BY: R.R.
CHECKED BY: Y.C.
JOB NO. 1013-23

ENGINEER'S SEAL
NOT REQUIRED
THIS SHEET IS PRODUCED FROM CITY SUBDIVISION DESIGN STANDARDS

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

SCALES
HORIZ. AS-NOTED
VERT. 1"=16'
DATE OCT. 2014
DESIGN BY: Y.C.
INITIATED BY: R.R.
CHECKED BY: Y.C.
JOB NO. 1013-23

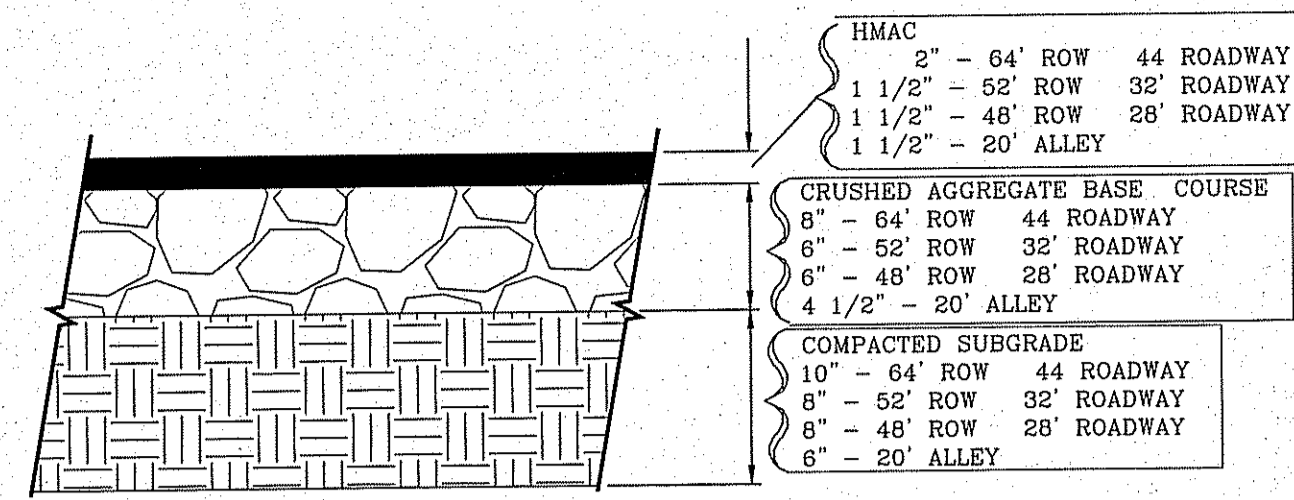
CONDE INC.
ENGINEERING / PLANNING SURVEYING / GPS
6080 SURETY DR. STE 100
EL PASO, TEXAS 79905
PHONE: (915) 592-0283
FAX: (915) 592-0286

CONDE INC.
REGISTRATION NO. F-2321

SHEET TITLE
STANDARD DETAILS

TIERRA DEL ESTE UNIT SEVENTY THREE
SHT 37 OF 39

FILE LOCATION S:\Subdivisions\TDE 73 DWG DETAILS PLOTTED ON Tuesday, October 11, 2016 5:00:04 PM BY ESTERAN JUAREZ



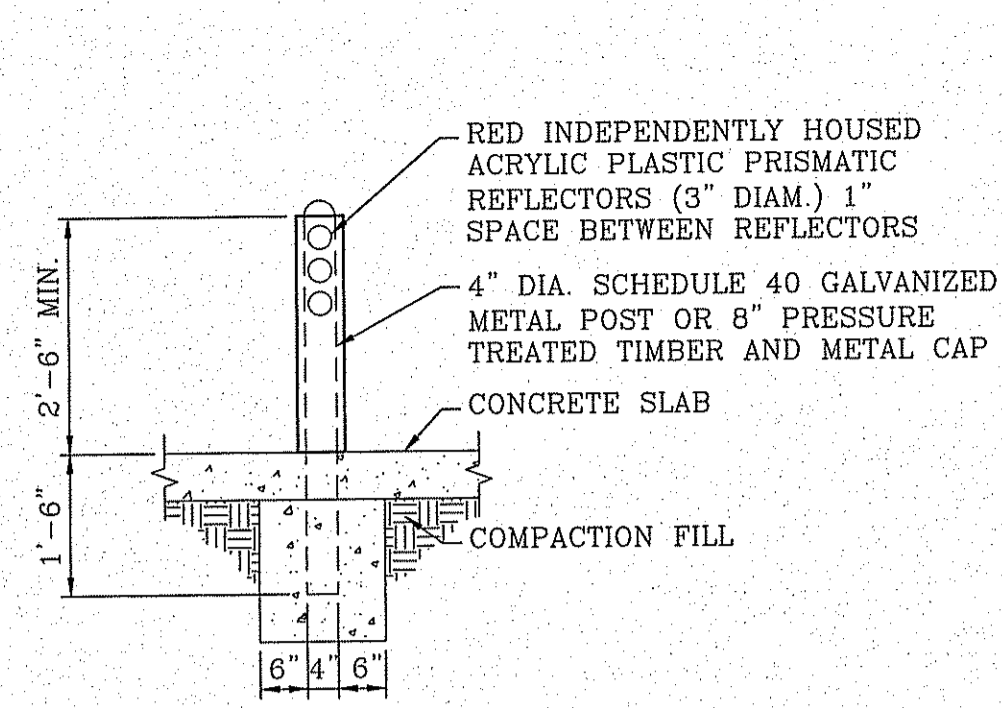
PAVEMENT SECTION DETAIL
SCALE: 1"=1'

PAVEMENT NOTES

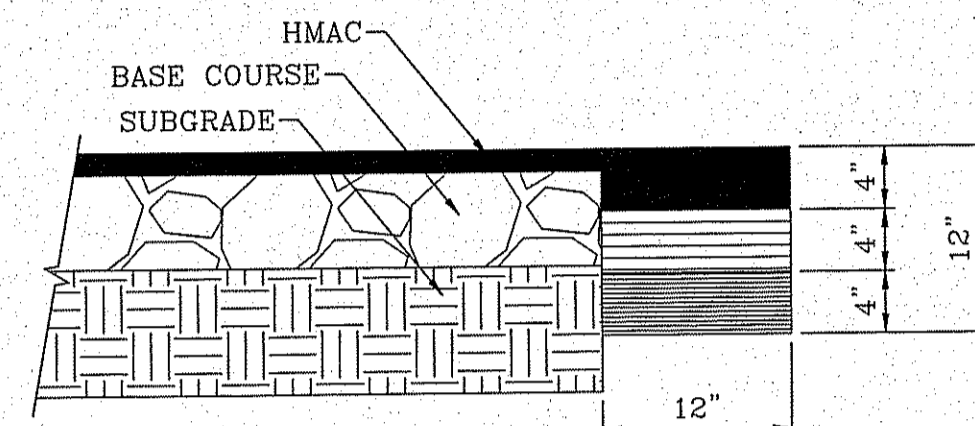
- SUBGRADE TO BE COMPACTED TO 95% OF MAXIMUM DENSITY AS PER ASTM D1557.
- BASE TO BE COMPACTED TO NOT LESS THAN 100% DENSITY IN ACCORDANCE WITH ASTM D1557, TYPE A, GRADE 1 OR 2.
- BITUMINOUS MATERIAL SHALL CONFORM TO AC-10 OR AC-20, TYPE "C" IN ACCORDANCE WITH ASTM D3318.
- PRIME COAT TO BE 0.25 GAL.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

TRENCHING

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



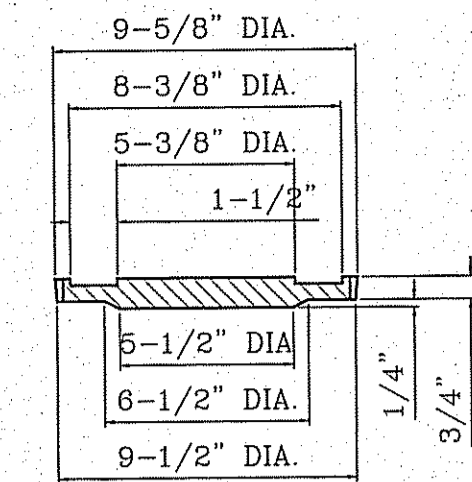
BOLLARD DETAIL
SCALE: 1"=2'



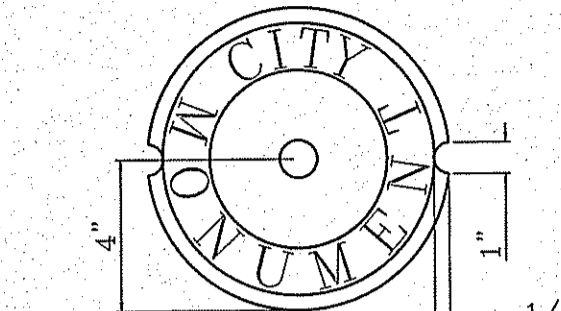
PAVEMENT TERMINUS
SCALE: 1"=1'

NOTE:

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



COVER
SCALE: 1"=6"



COUNTERSUNK DETAIL
SCALE: 1"=3"

SIZE AND CONSTRUCTION:

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

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

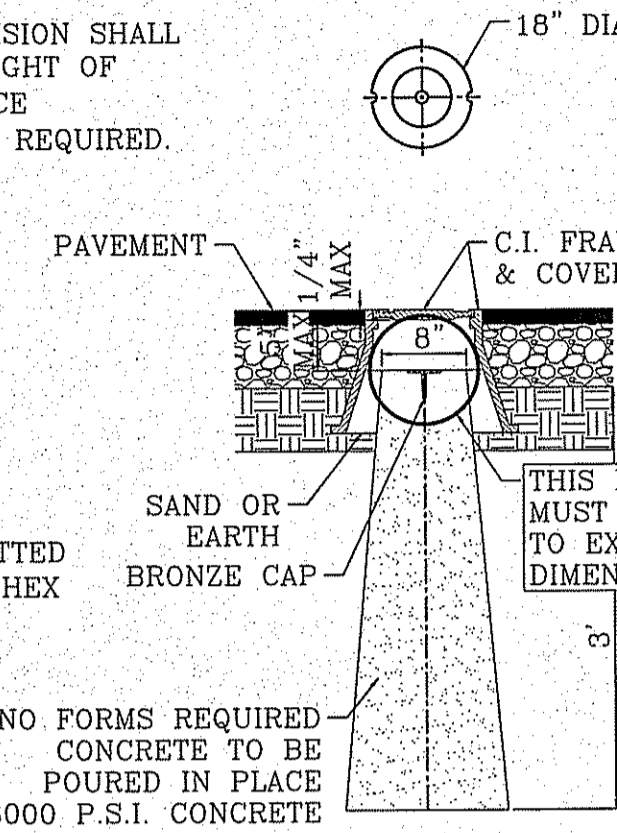
NUMBER AND LOCATIONS:

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

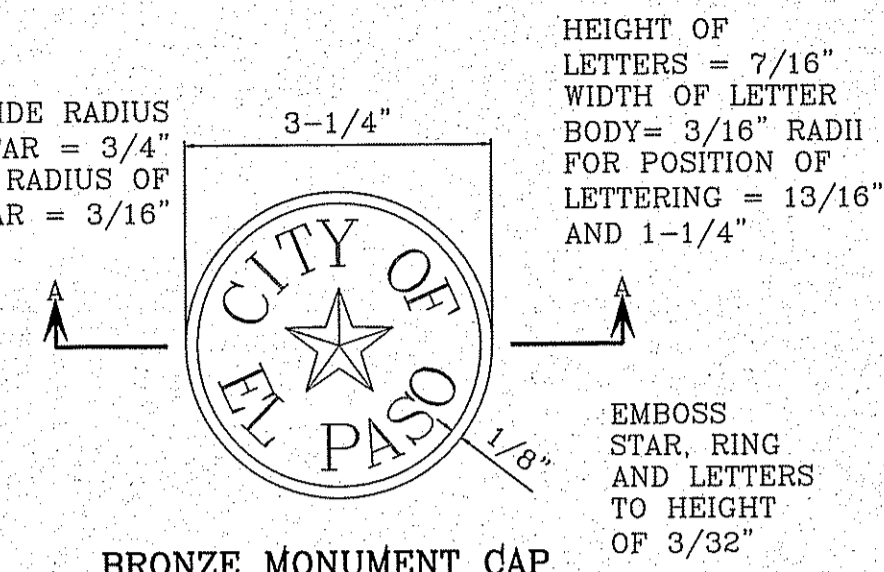
THE SIZE, TOPOGRAPHY AND LAYOUT OF THE SUBDIVISION SHALL GOVERN MONUMENT MUST BE WITHIN THE LINE OF SIGHT OF ANY OTHER MONUMENT (2000 FEET MAXIMUM DISTANCE BETWEEN MONUMENTS). THE NUMBER OF MONUMENTS REQUIRED.

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

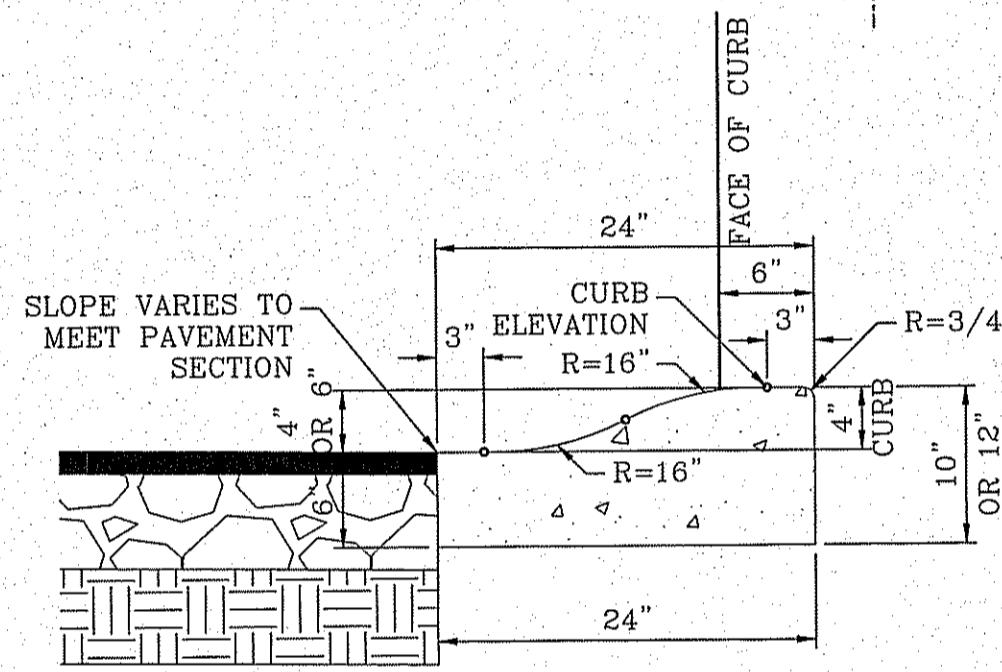
AT LEAST ONE (1) MONUMENT SHALL BE PLACED ON EACH HORIZONTAL CURVE. TWO SHALL BE PLACED IF THE POINT OF INTERSECTION (P.I.) OF THE TANGENTS LEADING INTO THE CURVE FALLS OUTSIDE OF CITY RIGHT-OF-WAY. MONUMENTS SHALL BE INSTALLED SUCH THAT ALL FRONT PROPERTY CORNERS OF ALL LOTS IN THE SUBDIVISION ARE WITHIN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



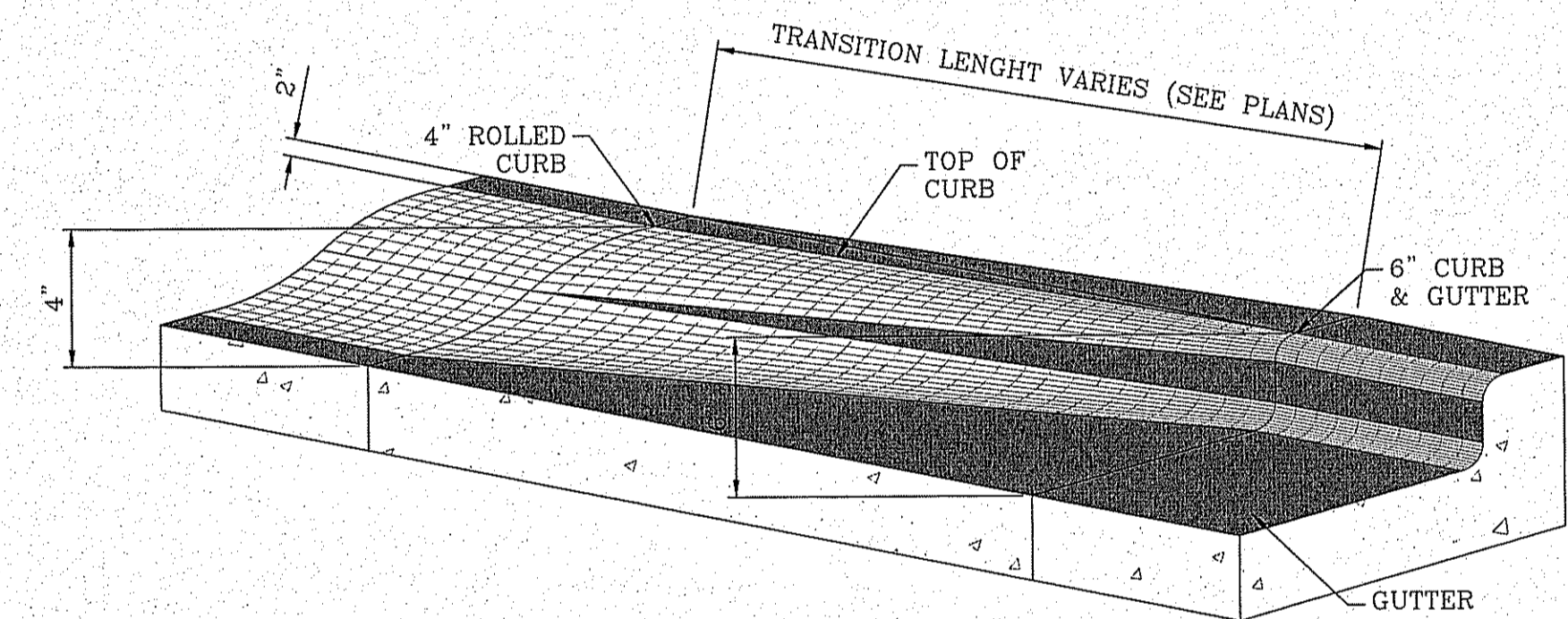
CITY MONUMENT DETAIL
SCALE: 1"=2'



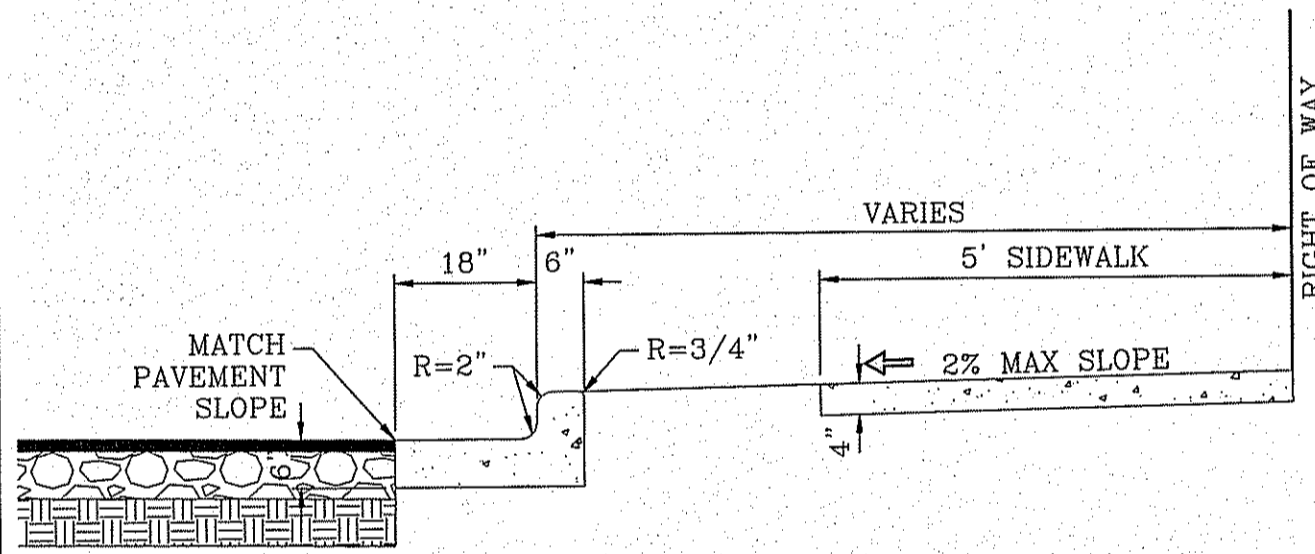
BRONZE MONUMENT CAP
SCALE: 1"=2"



ROLLED CURB DETAIL
SCALE: 1"=1'



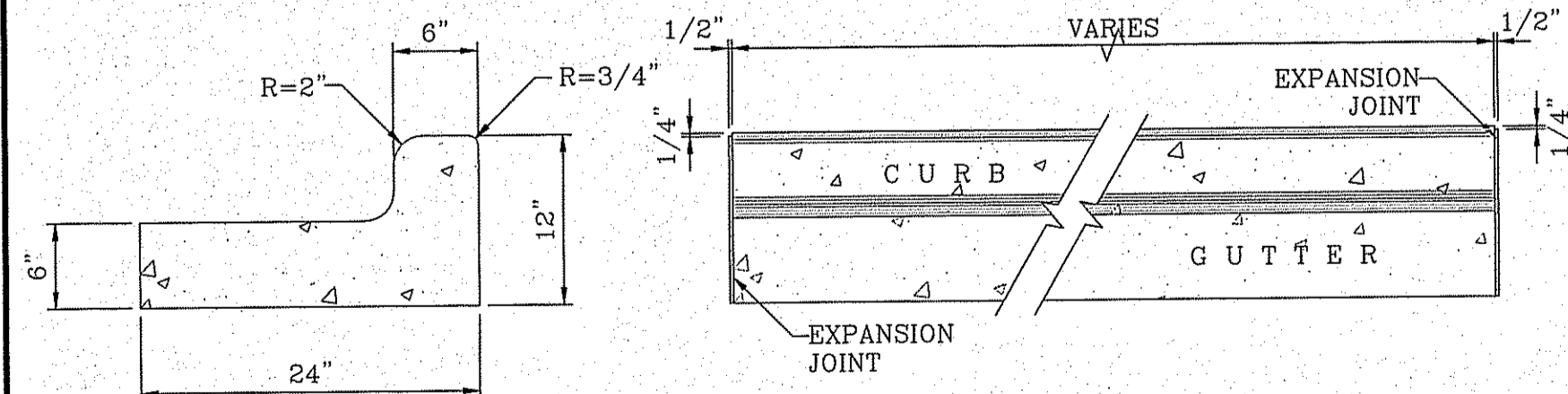
ROLLED CURB TO CURB & GUTTER TRANSITION
SCALE: 1"=1'



NOTES:

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

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



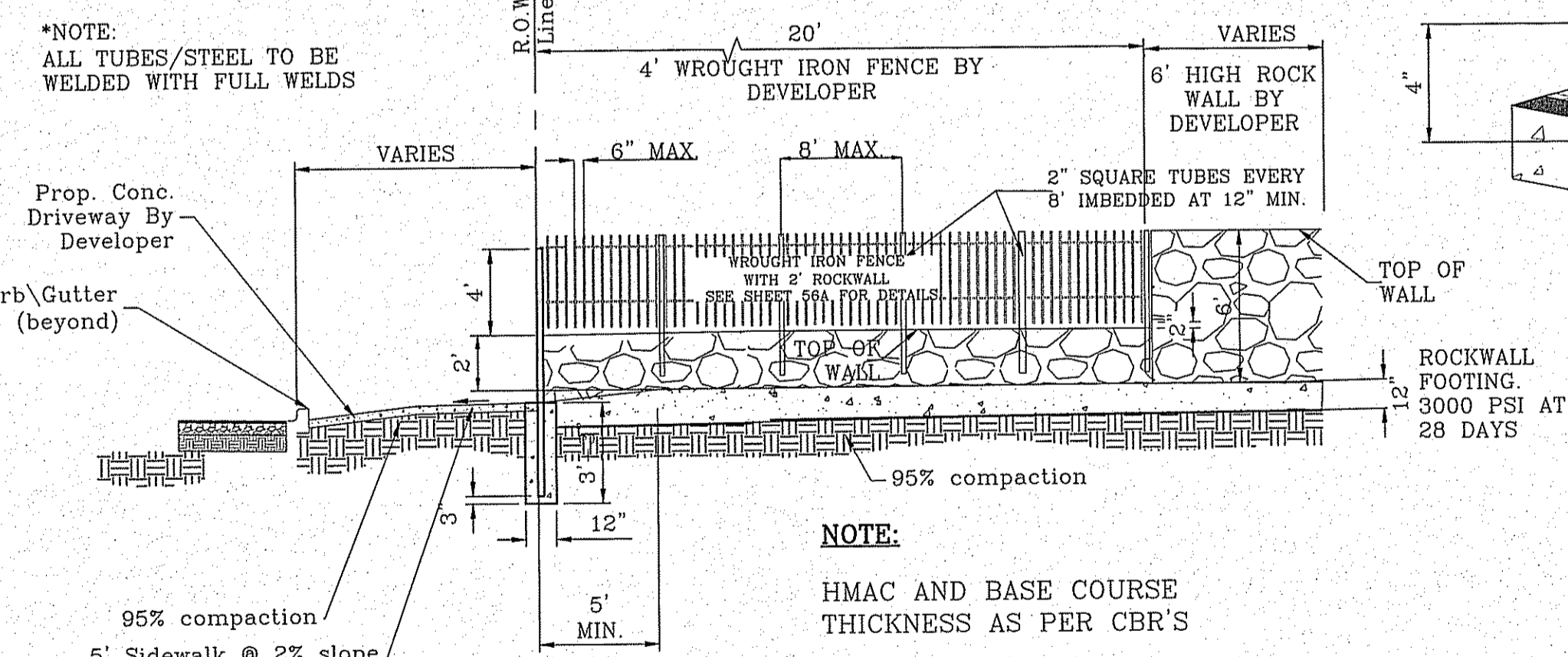
CURB & GUTTER DETAIL
SCALE: 1"=1'

END SECTION

PLAN VIEW

NOTES:

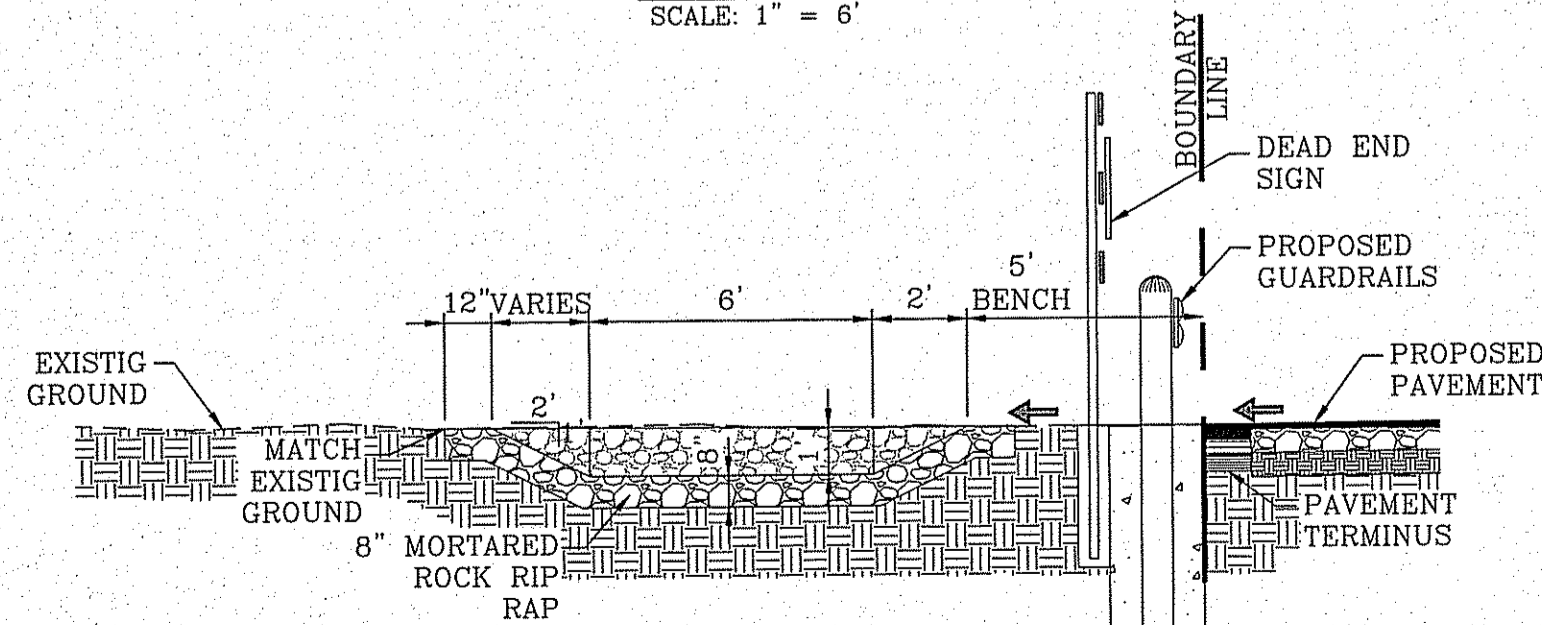
- NO EXPANSION JOINT WILL BE REQUIRED EXCEPT AT THE END OF CURB RETURNS. (POINT OF TANGENCY WITH STRAIGHT LINE).
- CONTRACTION JOINTS (1/2" INCH MIN.) MUST BE SCORD EVERY 10 FEET IN CURB AND GUTTER.
- ALL EXPANSION JOINTS WILL BE OF PREFORMED BITUMINOUS FIBER 1/2" INCH THICK.
- CONCRETE: CLASS "A" 3000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



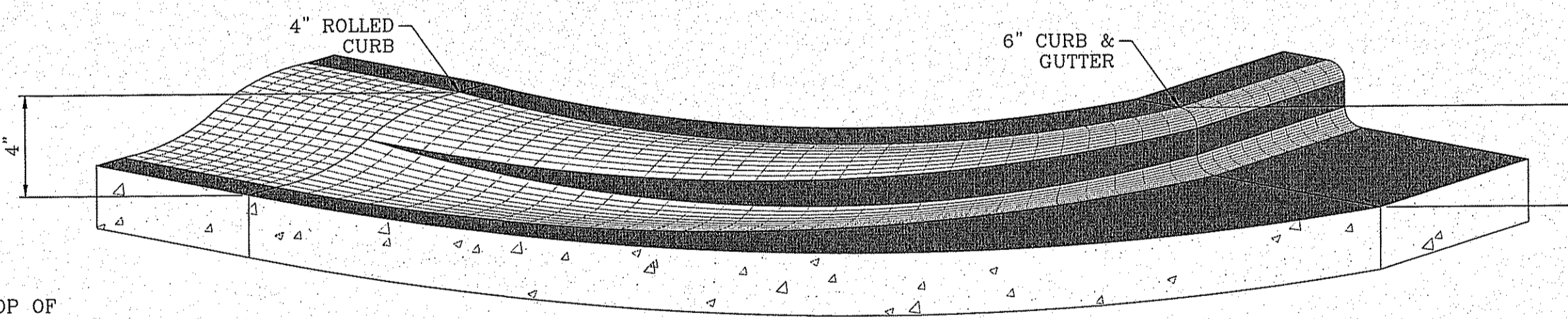
NOTE:

HMAC AND BASE COURSE THICKNESS AS PER C.B.R.'S

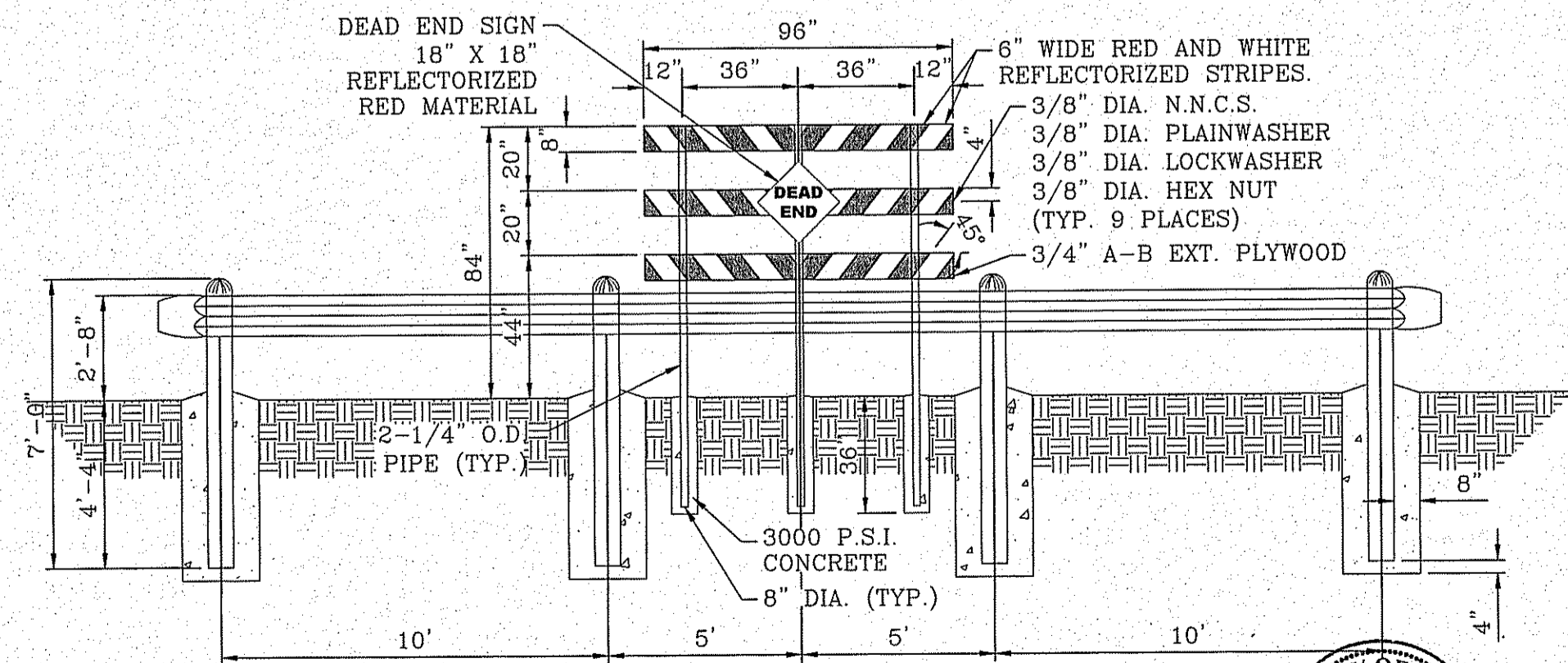
WROUGHT IRON FENCE
SCALE: 1"=6"



DESILTING BASIN WITH GUARD RAIL DETAIL
SCALE: 1"=4'



CURB TRANSITION AT RETURNS
SCALE: 1"=1'



GUARD RAIL DETAIL
SCALE: 1"=4'

NOTE:

DEAD END SIGN TO BE USED WITH GUARDRAILS. RED AND WHITE PORTIONS TO BE REFLECTIVE SHEETING. DEAD END SIGN MUST COMPLY WITH THE CITY OF EL PASO SUBDIVISION DESIGN STANDARDS.

Final Approval

TERRA DEL ESTE UNIT SEVENTY THREE

BENCHMARK	CITY MONUMENT AT THE CENTERLINE INTERSECTION OF SADDLEHORN PL. AND HOLLY SPRINGS AVE. ELEVATION 4024.74
DATE	05/05/16
REVISIONS	CITY REDLINES AS PER 03/31/16 COMMENTS
BY	E.J.

TERRA DEL ESTE UNIT 73
BEING PORTION OF SECTION 48, BLOCK 79, TOWNSHIP 2, TEXAS AND PACIFIC RAILWAY CO. SURVEYS, EL PASO COUNTY, TEXAS, CONTAINING: .52,766± ACRES

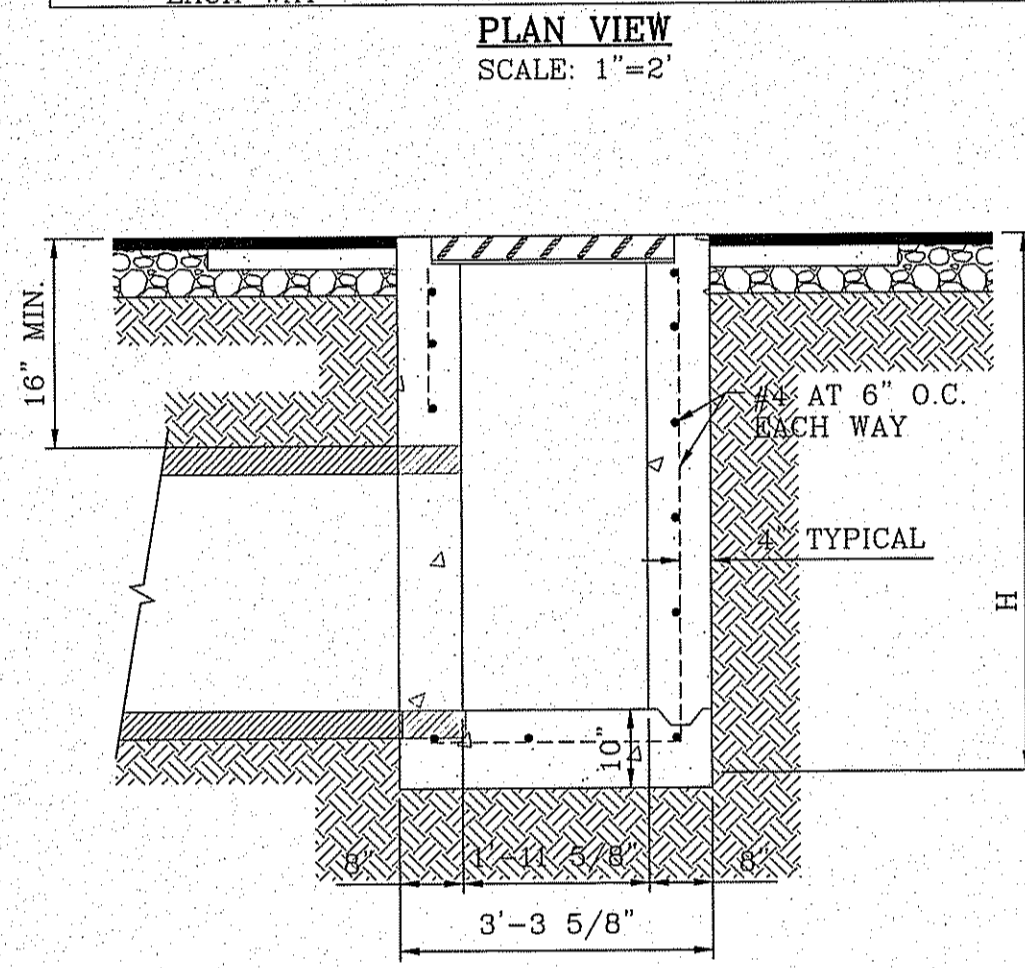
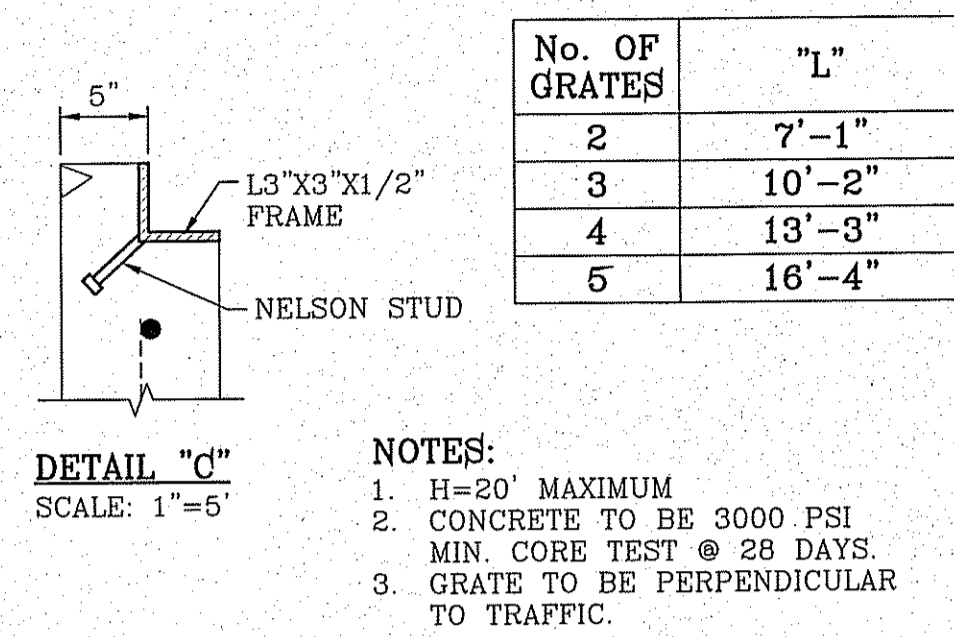
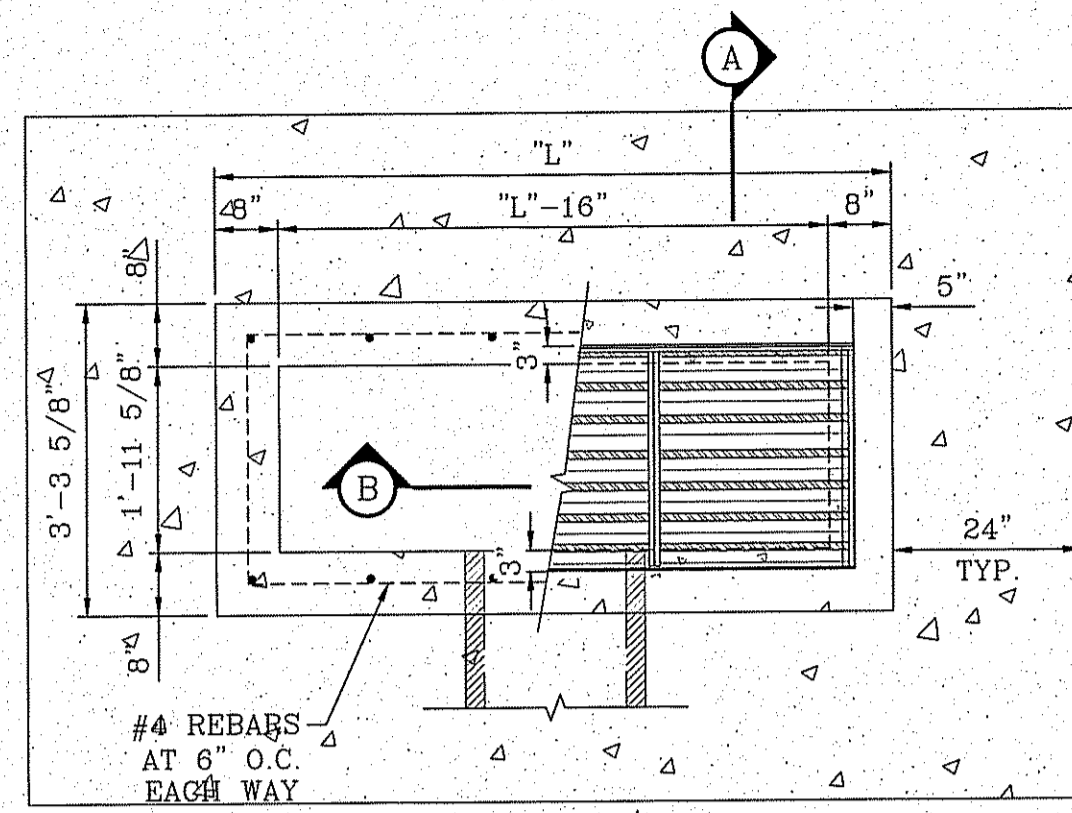
SCALES	HORIZ: AS-NOTED
VERT.	1"=16'
DATE	OCT. 2014
DESIGN BY	Y.C.
INITIATED BY	R.R.
CHECKED BY	Y.C.
JOB NO.	1013-23

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

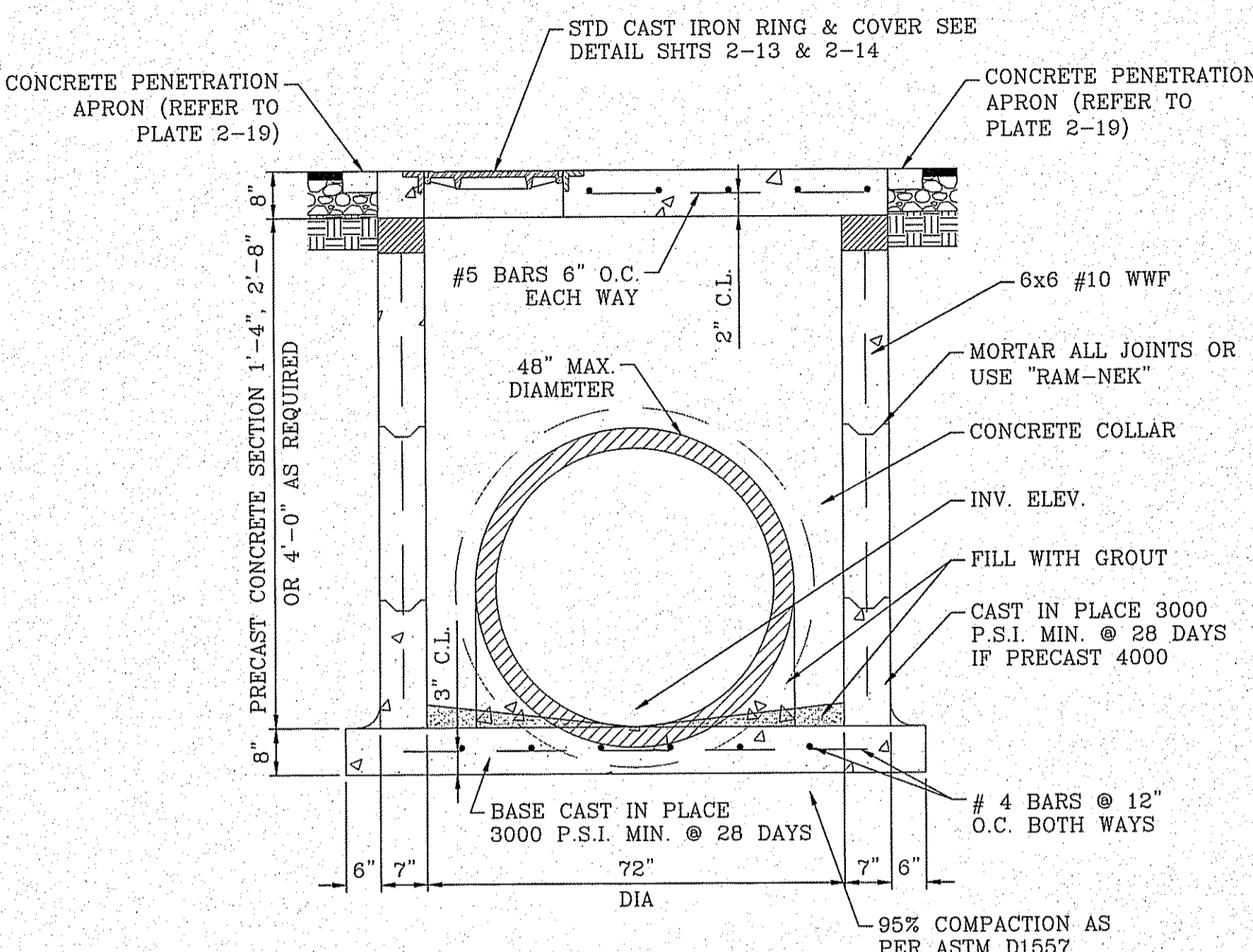
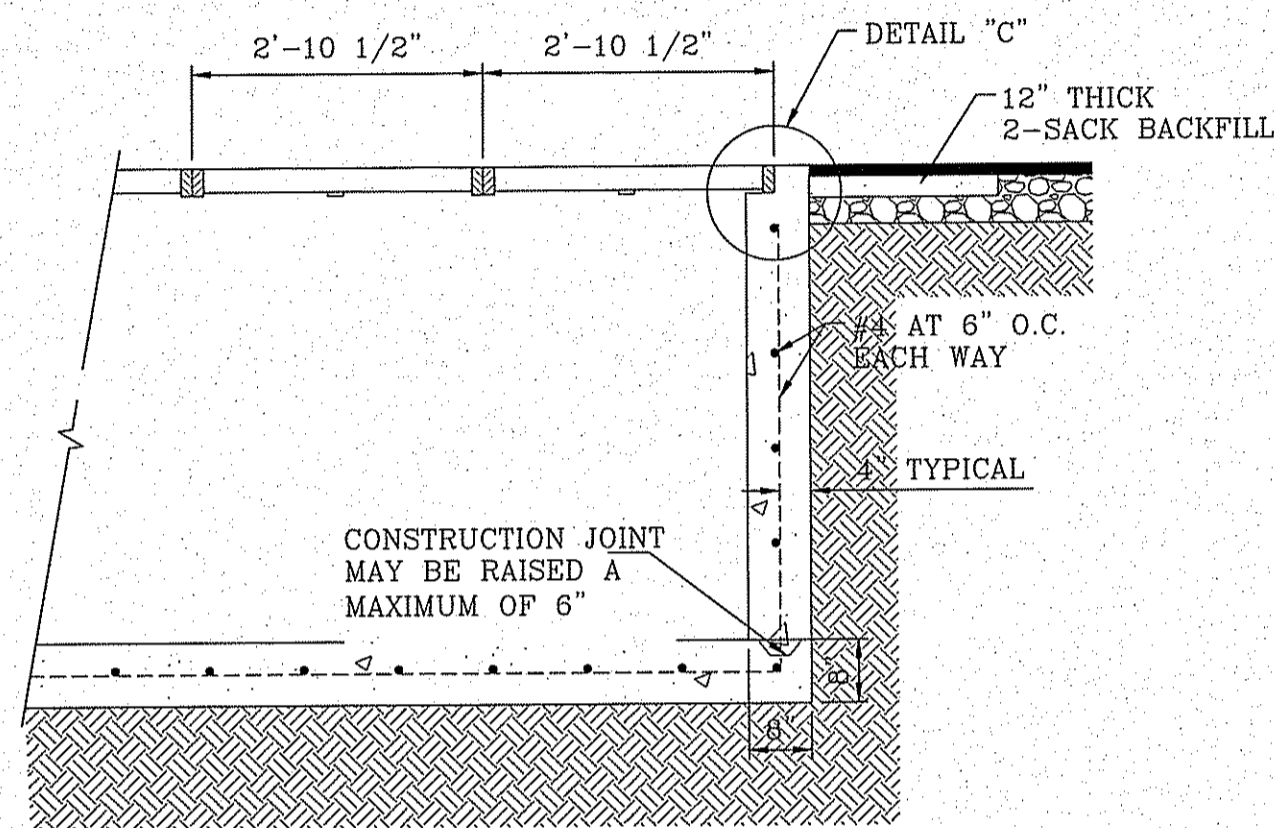
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THRUST BLOCK DIMENSION CALCULATIONS (NEED DATA IN YELLOW)

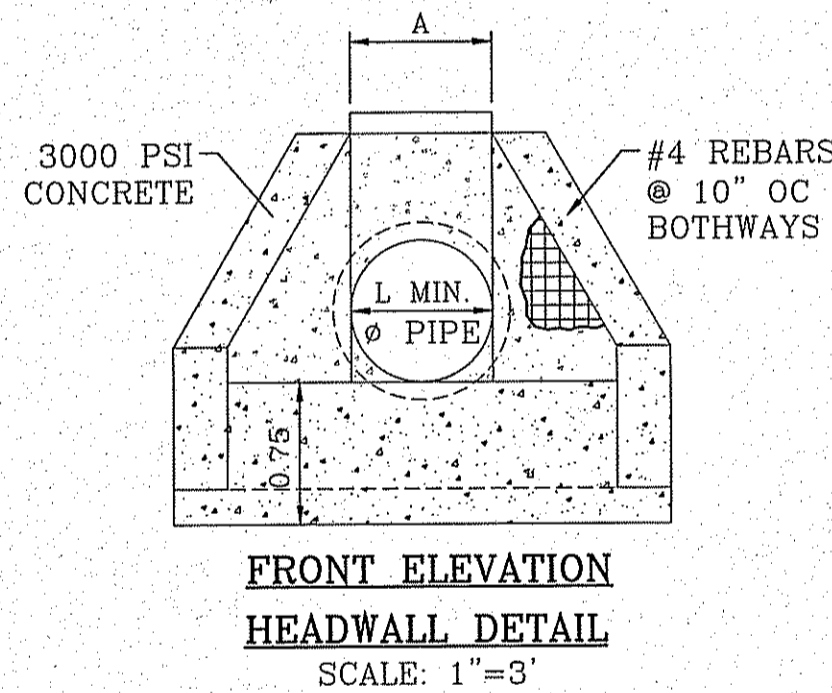
DATA INPUT FROM STROMCAD & STRUCTURES								WING WALL DIMENSIONS							
Struct. no.	Pipe size	QFS (total)	Velocity (v)	Depth (d)	g	froud	W/D (from chart)	W	H	L	A	B	C	D	E & T
1	60	215.25	10.96	1.75	32.2	1.460	3.60	7'-6"	5'-6"	6'-10"	2'-8"	2'-0"	2'-8"	12"	10"
2	54	102.81	10.69	1.22	32.2	1.706	3.60	6'-6"	6'-2"	5'-5"	2'-0"	1'-5"	2'-0"	8"	8"



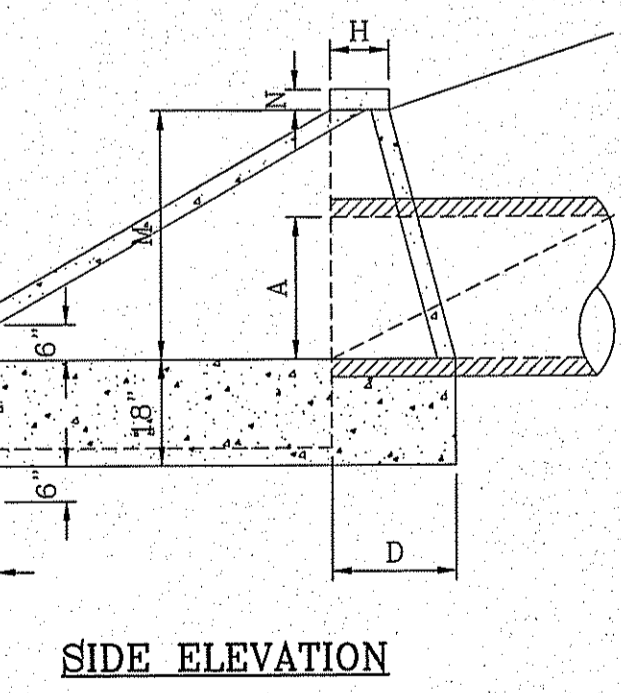
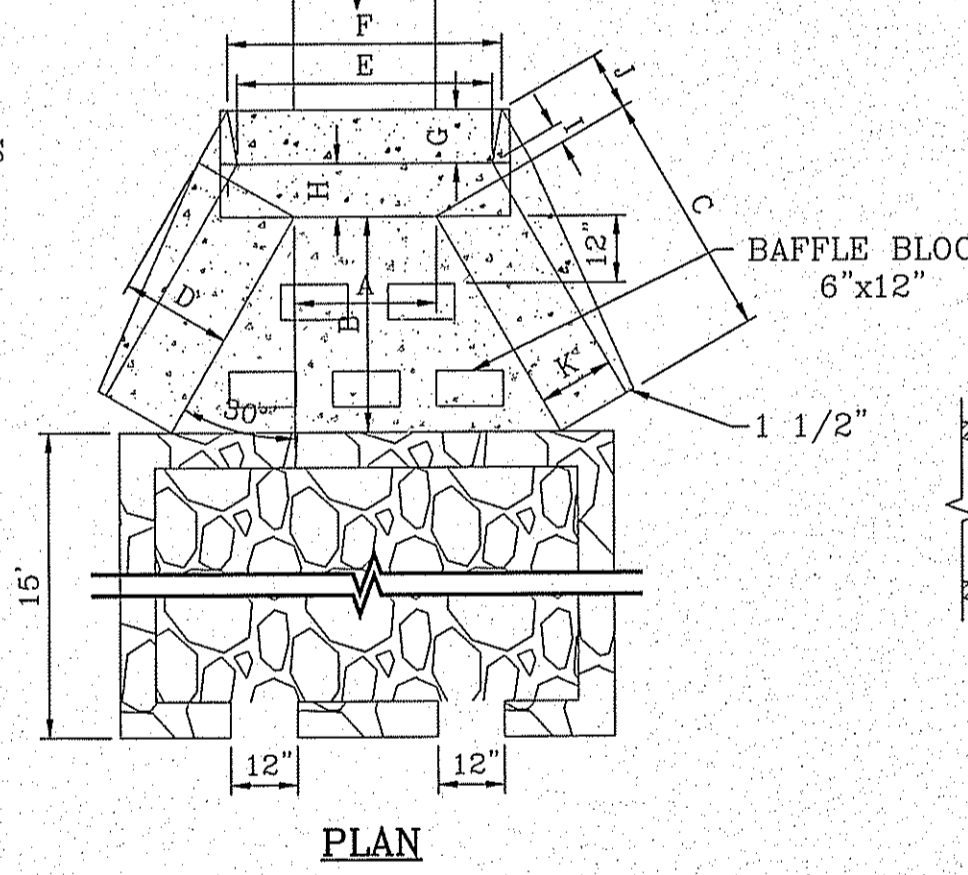
TYPE II INLET



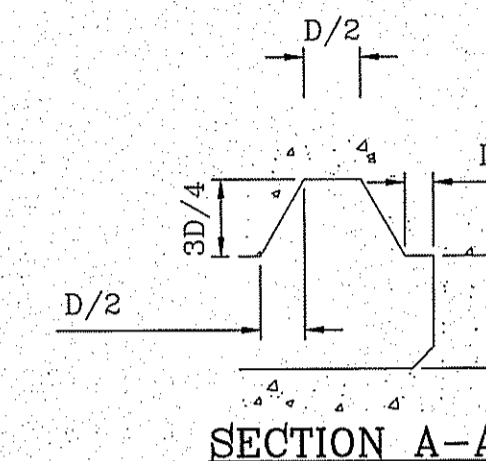
PRECAST 72" MANHOLE SECTION



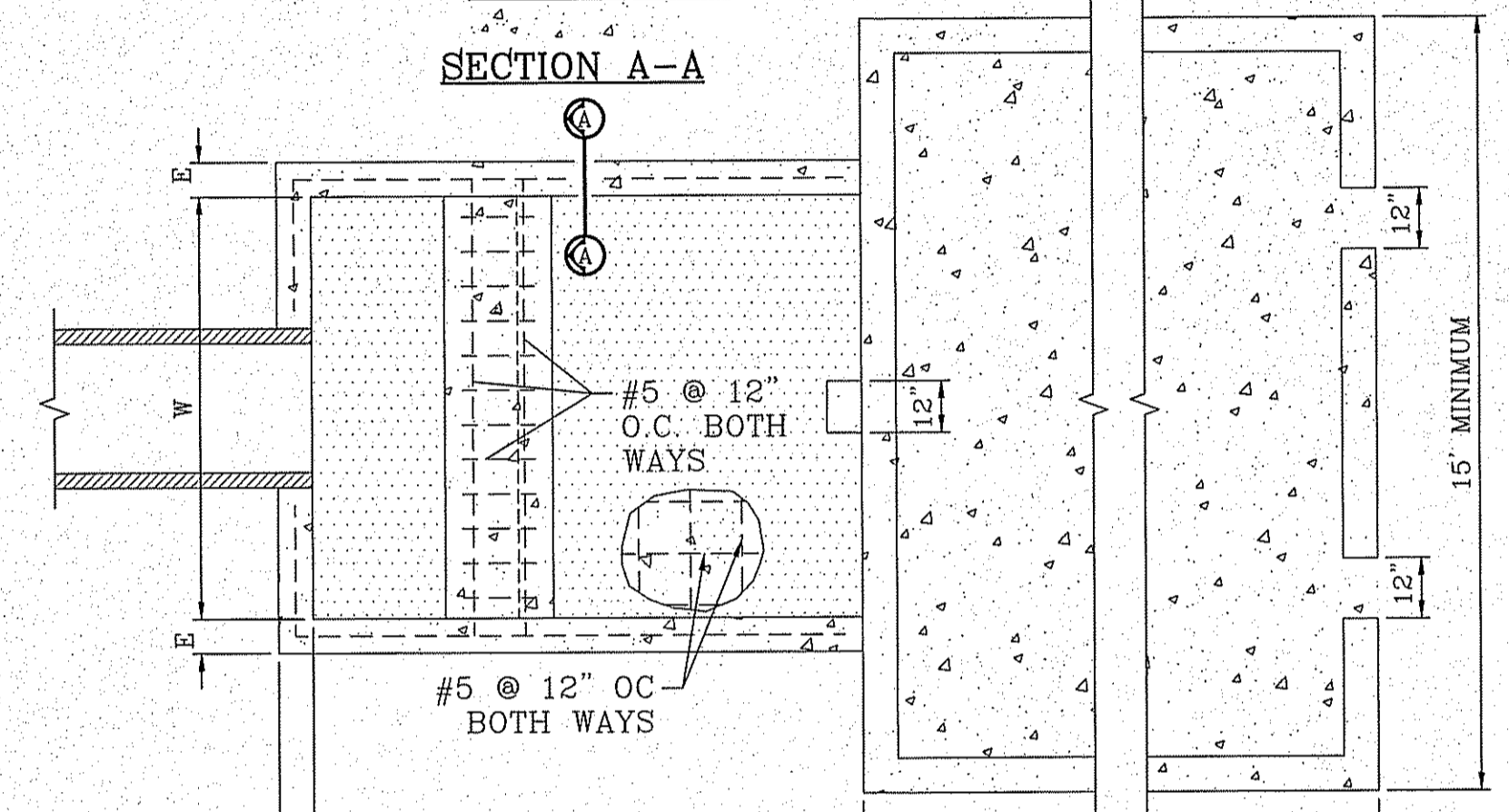
FRONT ELEVATION HEADWALL DETAIL



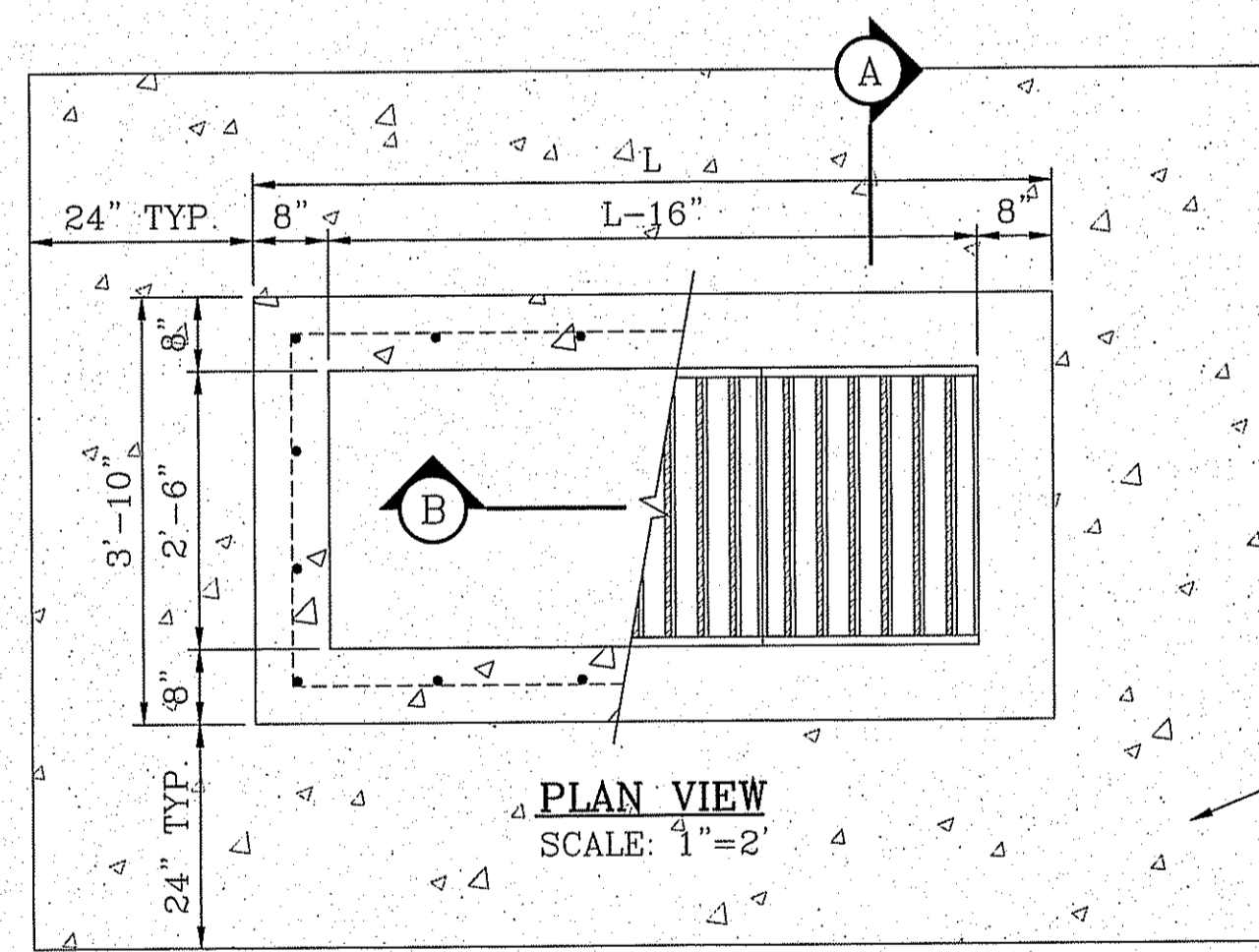
SIDE ELEVATION



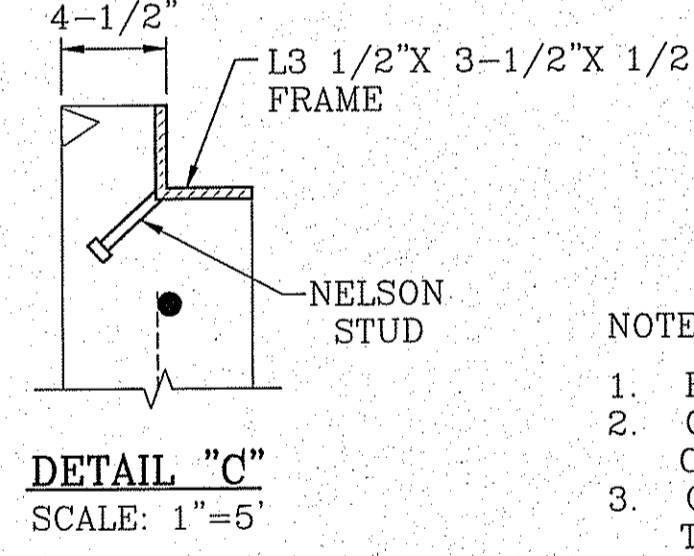
SECTION A-A



THRUST BLOCK DETAIL



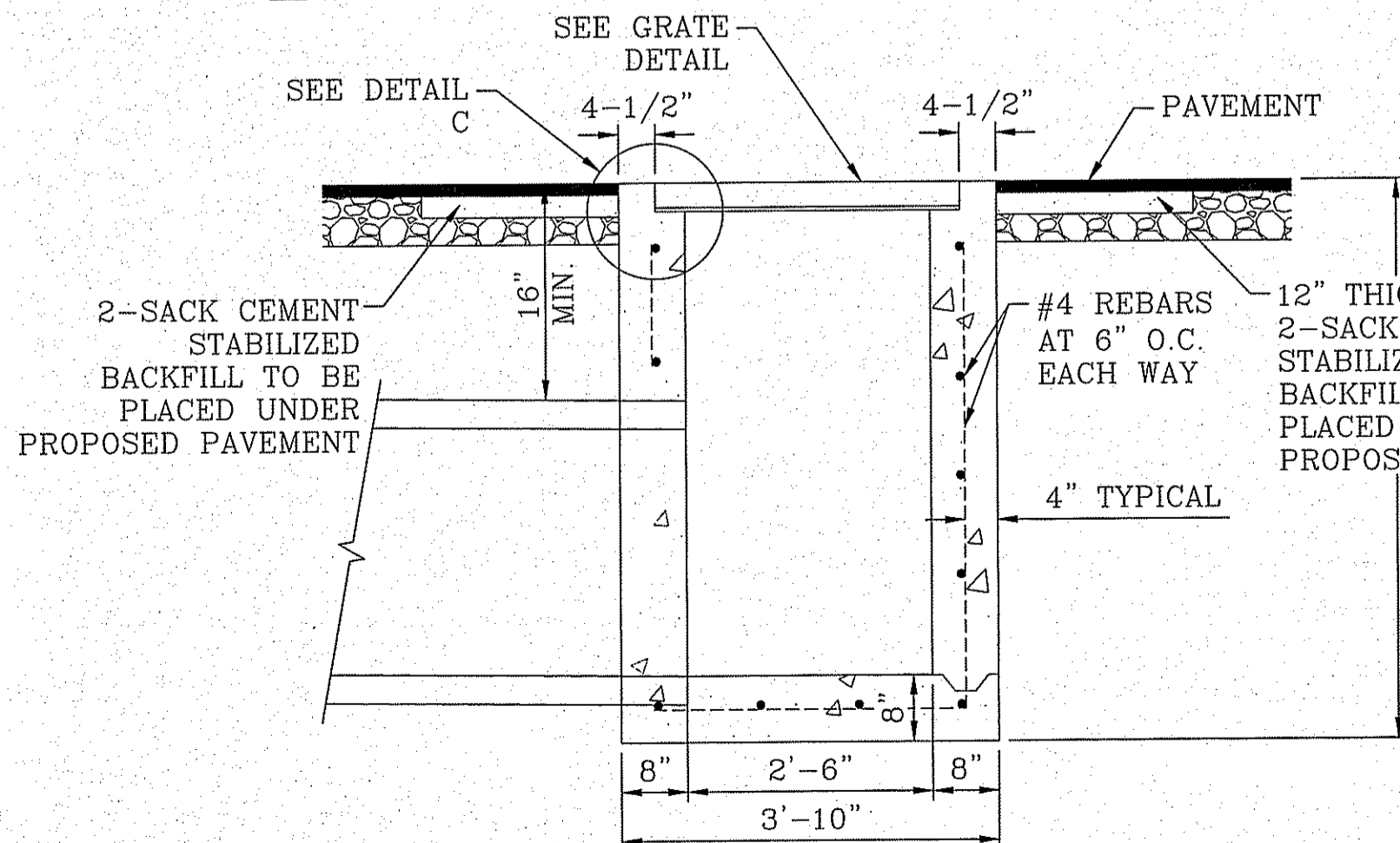
PLAN VIEW



DETAIL "C"

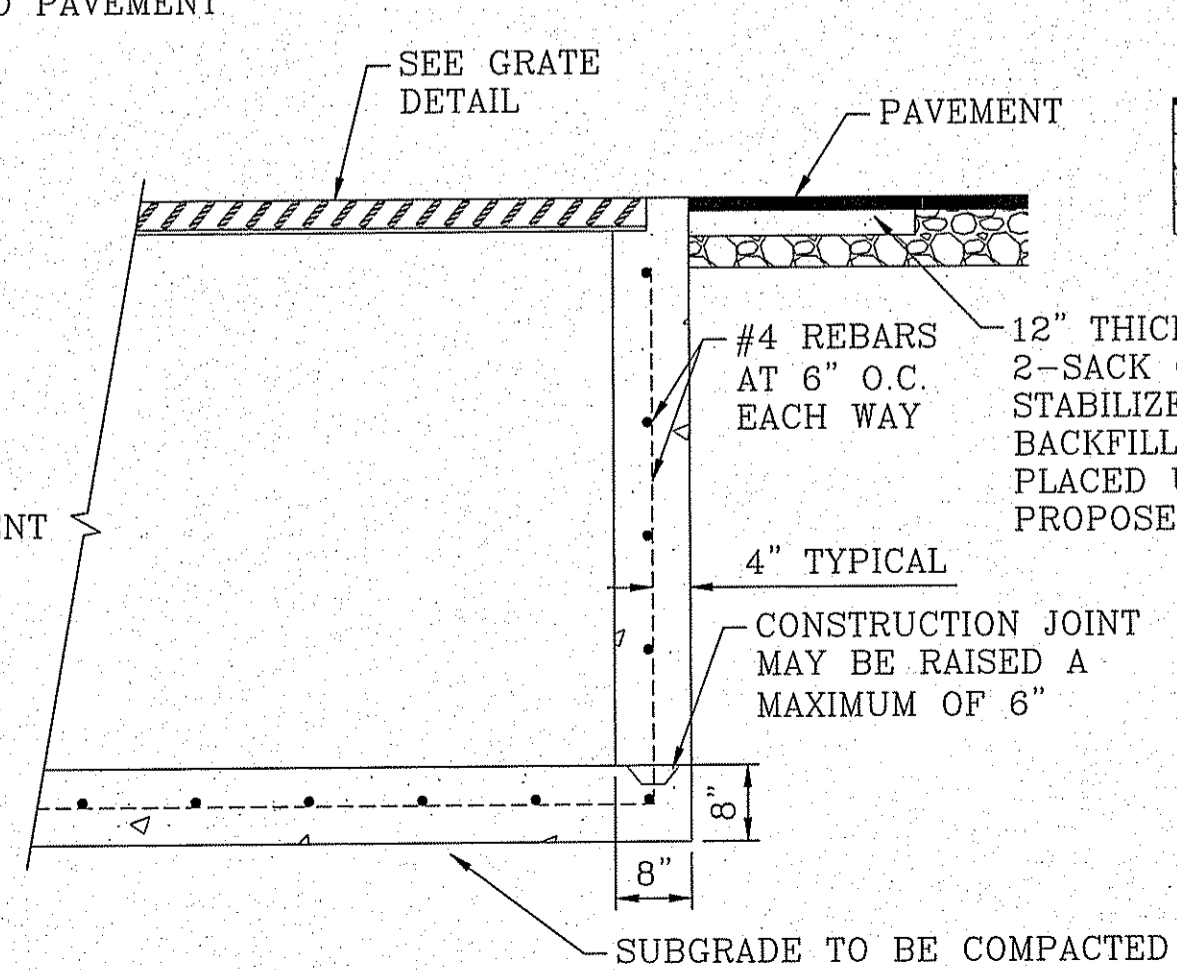
- NOTES:
1. H=20' MAXIMUM
2. CONCRETE TO BE 3000 PSI MIN CORE TEST AT 28 DAYS.
3. GRATE TO BE PERPENDICULAR TO TRAFFIC

No. OF GRATES	L
5	10'-8"

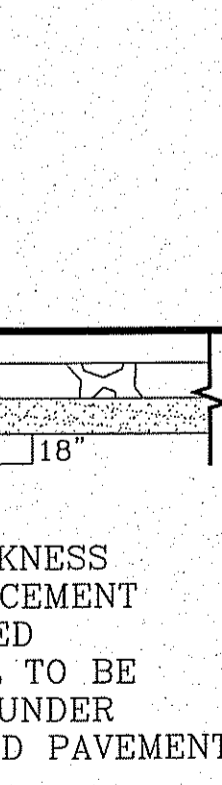


SECTION A-A

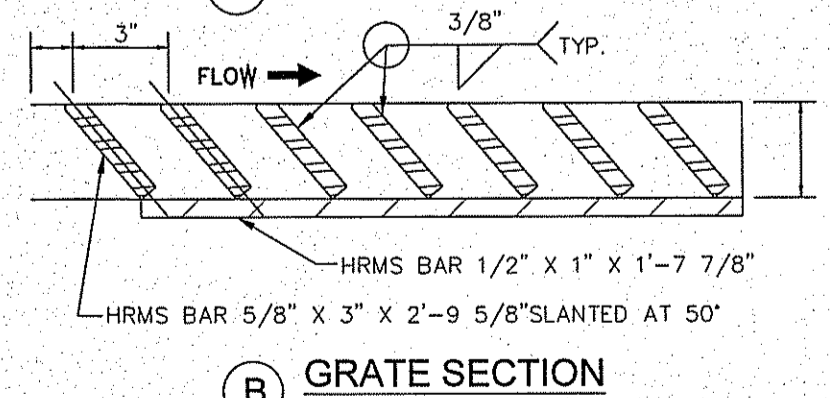
TYPE III INLET



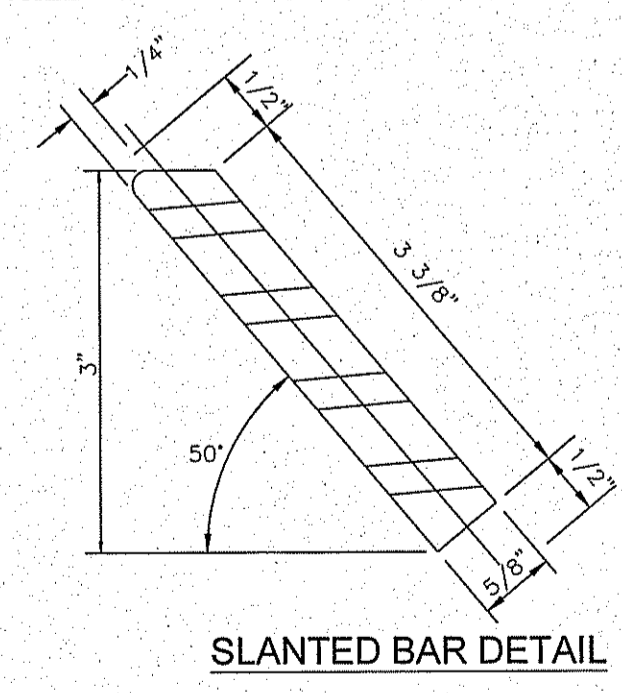
SECTION B-B



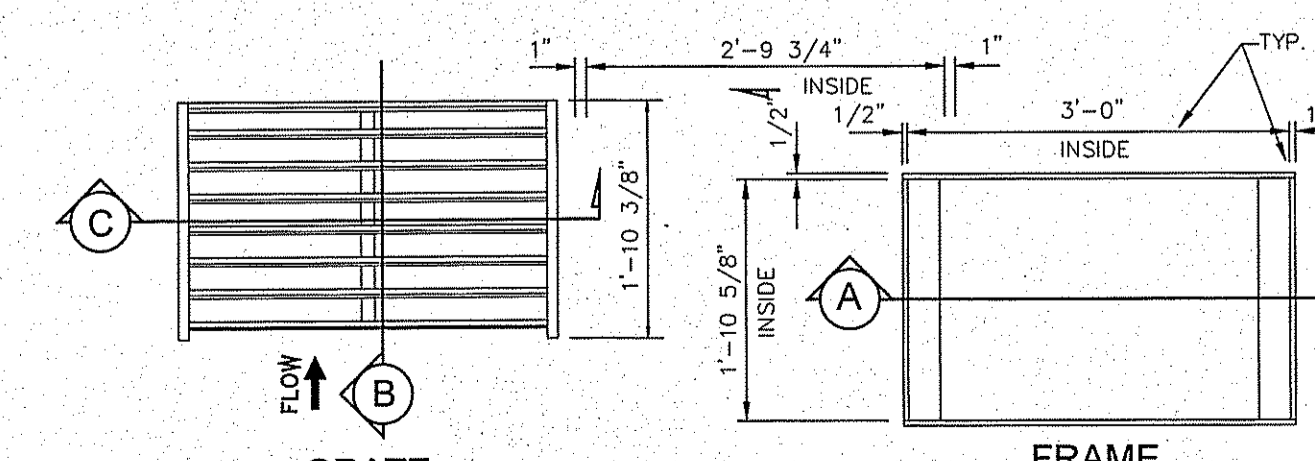
GRATE SECTION



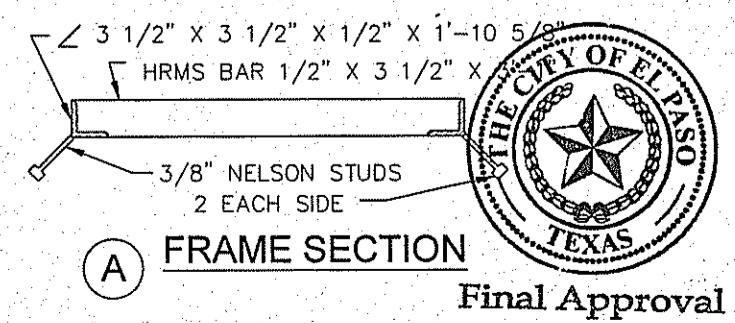
GRATE SECTION



SLANTED BAR DETAIL



FRAME AND GRATE DETAIL



FRAME SECTION

BENCHMARK
CITY MONUMENT AT THE CENTERLINE INTERSECTION OF SADDLEHORN PL. AND HOLLY SPRINGS AVE. ELEVATION 4024.74
DATE 05/05/16
REVISIONS
BY E.J.

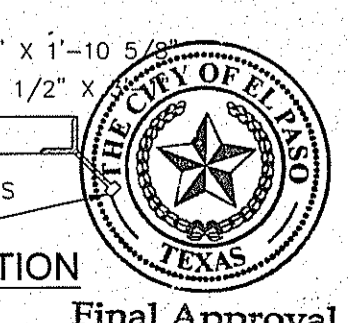
PROJECT NAME
TERRA DEL ESTE UNIT 73
BEING PORTION OF SECTION 48, BLOCK 79, TOWNSHIP 2, TEXAS AND PACIFIC RAILWAY CO. SURVEYS, EL PASO COUNTY, TEXAS
CONTAINING .527664 ACRES

SCALE
HORIZ. AS SHOWN
VERT. 1"=4'
DATE: OCT. 2014
DESIGN BY: Y.C.
INITIATED BY: R.E.
CHECKED BY: Y.C.
JOB NO.: 1013-23

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

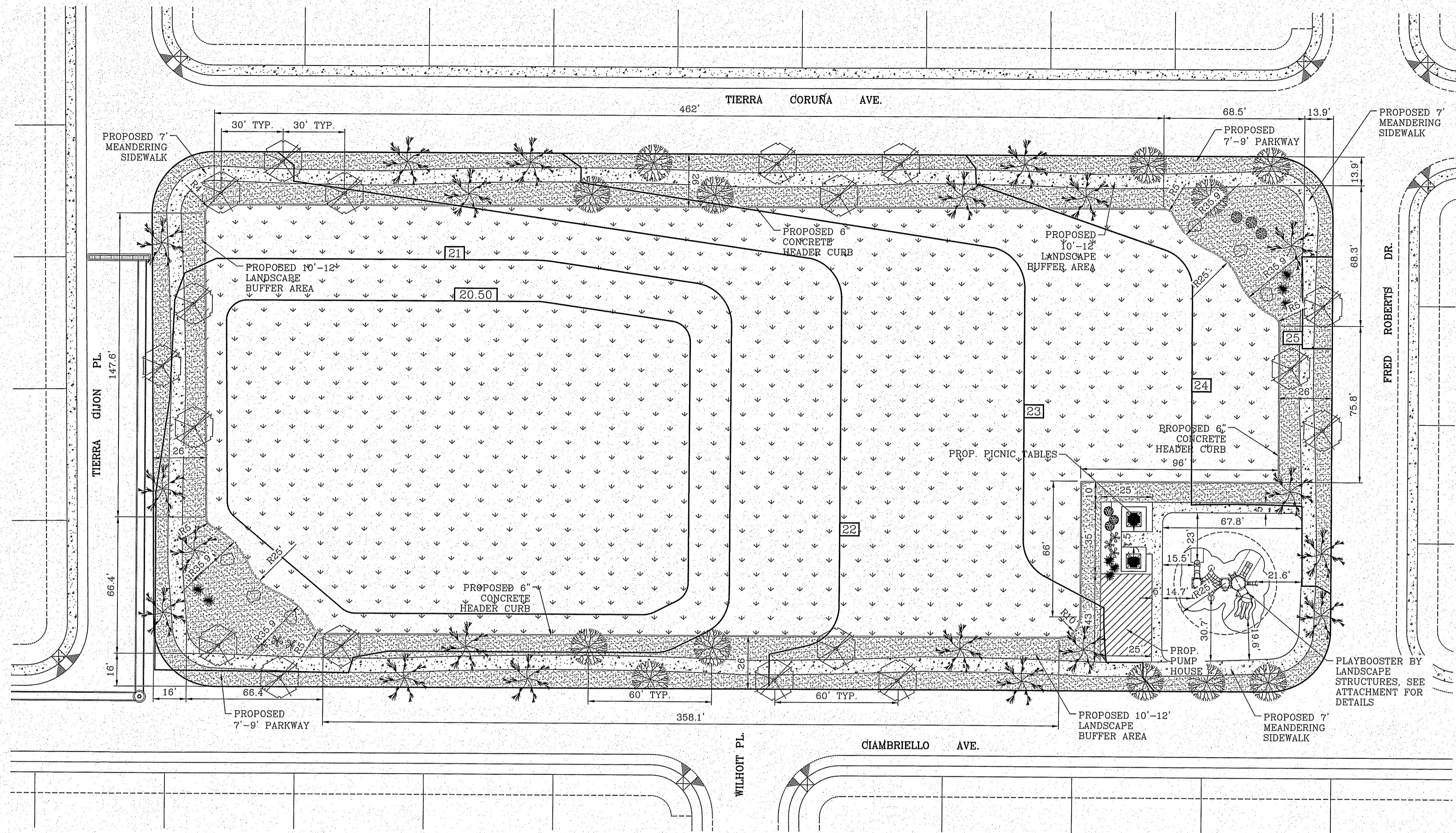
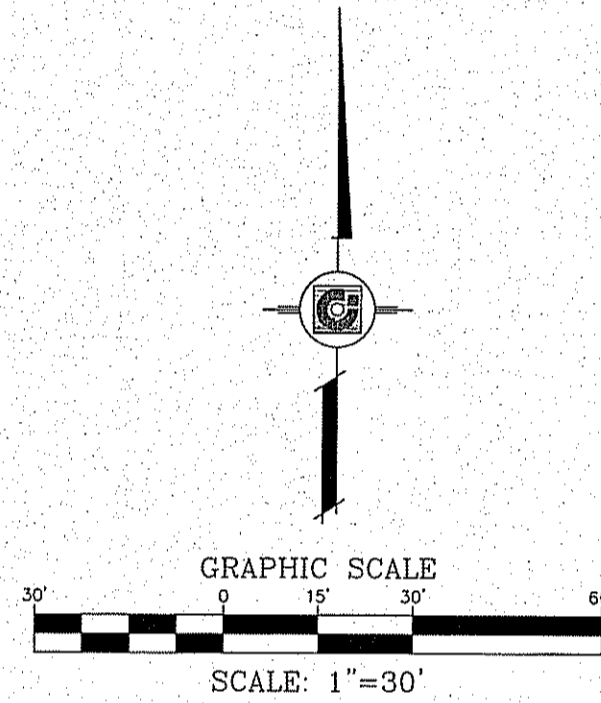
CONDE INC.
REGISTRATION No. F-2321

SHEET TITLE
DRAINAGE STRUCTURE DETAILS
SHT 39 OF 39



Final Approval

FILE LOCATION S:\LANDSCAPE\TDE 73 PARK DWG\X-BASE PLOTTED ON Monday, February 06, 2017 9:44:46 AM BY ESTEBAN JUAREZ



COMMON NAME	BOTANICAL NAME	SIZE	QUANTITY	HEIGHT
MEXICAN PLUM	PRUNUS MEXICANA	2" CAL.	18	10'
BONITA ASH CLASSIC SHADE SHAPE	FRAXINUS VELUTINA	2" CAL.	12	10'
RAYWOOD ASH Q TIPPED SHAPE	FRAXINUS ANGUSTIFOLIA	2" CAL.	20	10'
HAMELN FOUNDATION GRASS	HESPERALOE PARVIFLORA	5 GAL.	9	2'
CIMARRON SAGE	LEUCOPHYLLUM FRUTESCENS	5 GAL.	6	2'
AUTUMN SAGE	QUERCUS FUSIFORMIS	5 GAL.	6	3'
BOULDER			6	
CONCRETE SIDEWALK (11,549 s.f.)				
HYBRID BERMUDA "SANTA ANA" SOD (119,265 s.f.)				
PADRE CANYON CHAT, 3" DEPTH WITH DeWitt Pro-5 WEED BARRIER FABRIC TO BE PINNED DOWN AT 3" ON CENTER EACH WAY & AT 12" ON CENTER ALONG PERIMETER, OVERLAP MIN. 12" AT SEAMS (11,154 SQ. FT)				

NOTE:
IRRIGATION IS REGULATED BY THE TEXAS COMMISSION IN ENVIRONMENTAL QUALITY (T.C.E.Q.)(MC-178), P.O. BOX 13087, AUSTIN TEXAS. 78711-3037. TCEQ'S WEB SITE IS : WWW.TCEQ.STATE.TX.US

THIS DESIGN COMPLIES WITH THE CITY OF EL PASO APPROVED PARK DESIGN STANDARDS ADOPTED JANUARY 8, 2013

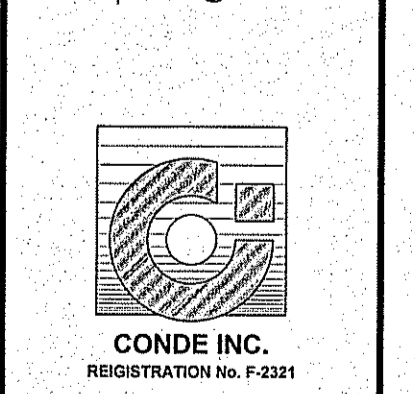
PARKS DEPARTMENT
REVIEWED BY *[Signature]* 02/07/2017
Final Approval

DATE	REVISIONS	BY
07/15/16	PARKS REDLINES AS PER 4/7/16 COMMENTS	E.J.
02/17/17	PARKS REDLINES AS PER 11/21/16 COMMENTS	E.J.

PROJECT NAME
ESPAÑOLA PARK
14601 CIAMBRIELLO AVE.
BEING ALL OF LOT 1, BLOCK 462
TIERRA DEL ESTE UNIT 73
132,485.51 S.F. OR 3.042 ACRES

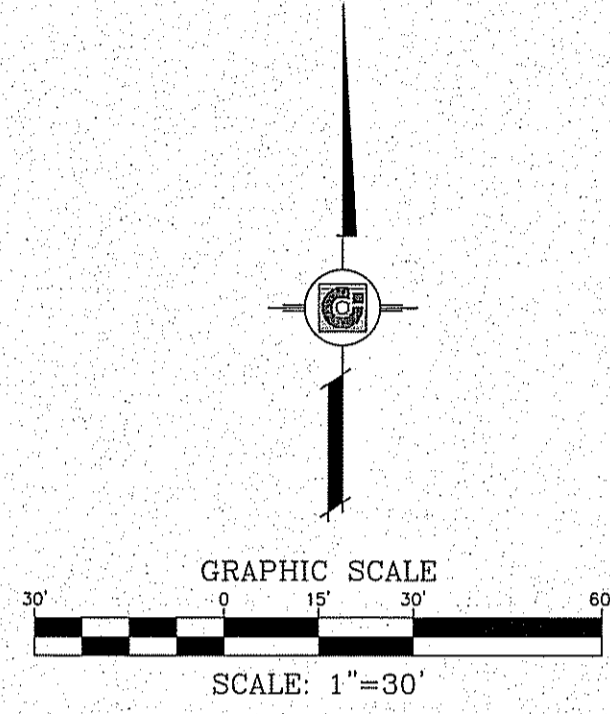
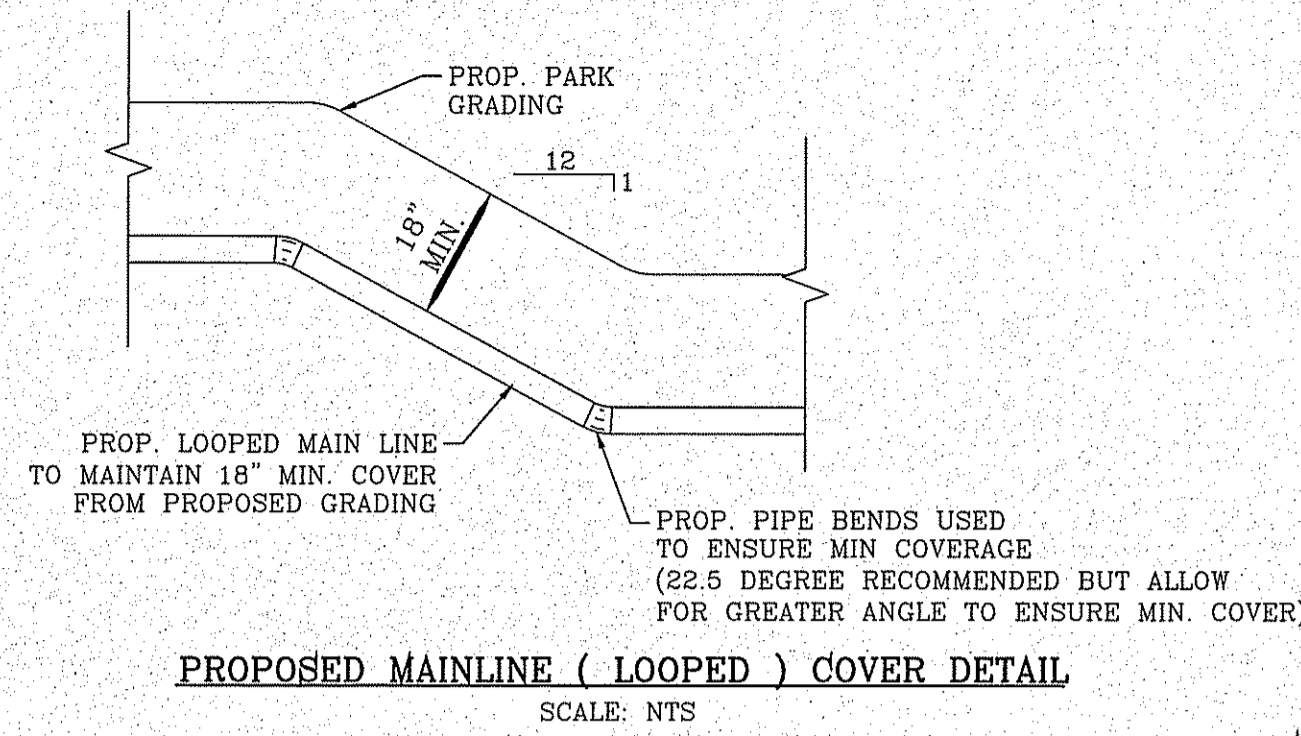
SCALE
HORIZ. 1" = 30'
VERT. ---
DATE: SEPT. 2014
DESIGN BY: RM/RR
INITIATED BY: R.R.
CHECKED BY: R.M.
JOB NO.:

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

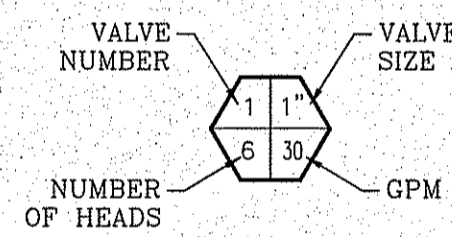


SHEET TITLE
PROPOSED PARK LANDSCAPE PLAN

FILE LOCATION S:\LANDSCAPE\73 PARK\DWG.X-BASE PLOTTED ON Monday, February 06, 2017 9:44:54 AM BY ESTEBAN JUAREZ



- KEYED NOTES:**
- IRRIGATION TAP POINT VERIFY 55 PSI. NOTIFY OWNER IN WRITING IF ABOVE CRITERIA NOT MET.
 - CONTROLLER LOCATION 110V POWER BY DEVELOPER. COORDINATE EXACT LOCATION IN FIELD.
 - CONTRACTOR REQUIRED TO APPLY FOR AND OBTAIN ALL PERMITS AND PASS ALL INSPECTIONS.



LEGEND

- 4" PVC SCHEDULE 40 MAIN WATER LINE @ 195.6 GPM
- 3" PVC SCHEDULE 40 LOOPED WATER MAIN
- TYPE K 4" COPPER WATER TUBE
- PVC CLASS 200 IPS PLASTIC PIPE WATER LATERAL (SIZE AS NOTED)
- PVC SLEEVE TO EXTEND 24" FROM EDGES (TWICE THE SIZE OF PIPE)
- 3" WATER METER BY DEVELOPER 220 GPM
- FEBCO LF860 4" RPBA W/ ENCLOSURE
- RAIN SENSOR
- RAINBIRD ESP-12SITEW CONTROLLER. SEE SHEET L3 FOR DETAIL.
- BERKELEY PUMP-B2TRMS (Coupling Drive), SEE SHEET L5 FOR DETAILS; W/ TUFF SHED ENCLOSURE
- WEATHERMATIC 8200CR SERIES BRONZE BULLET (3" 8200CR-30D)
- HUNTER I-25 ADJUSTABLE STAINLESS STEEL RISER ROTOR NOZZLE #10 LIGHT GREEN @ 50 psi RADIUS: 51' FLOW: 10.1 GPM
- HUNTER I-25 ADJUSTABLE (ADJUSTED) STAINLESS STEEL RISER ROTOR NOZZLE #10 LIGHT GREEN @ 50 psi RADIUS: 51' FLOW: 10.1 GPM
- XERIBIRD 8 EMITTER
- PIPE SIZE (SIZE AS NOTED)
- STUB OUT WITH VALVE (HOT LEAD COLOR GREEN) WIRES FOR FUTURE DRIP (BLACK, BLUE, & COLOR ORANGE)
- ISOLATION BRASS BALL VALVE TO BE IN VALVE BOX
- AMIAID 1" WYE FILTER & WILKINS 600 SERIES PRESSURE REGULATOR
- BUCKNER DOUBLE LUG 1" QUICK COUPLER PURPLE BOLT CAP W/ BRASS STABILIZER IN VALVE BOX WITH PURPLE LID.

NOTES:

- PVC SLEEVES TO BE WRAPPED WITH MINIMUM 4 MIL PLASTIC AND TAPED WITH 3M BRAND HD PLASTIC TAPE.
- QUICK COUPLER VALVES AND ISOLATION VALVES BOX ARE TO BE INSTALLED WITH TAG THAT READS: "NON POTABLE WATER NOT SAFE FOR DRINKING"

IRRIGATION DRIP EMITTER NOTES:

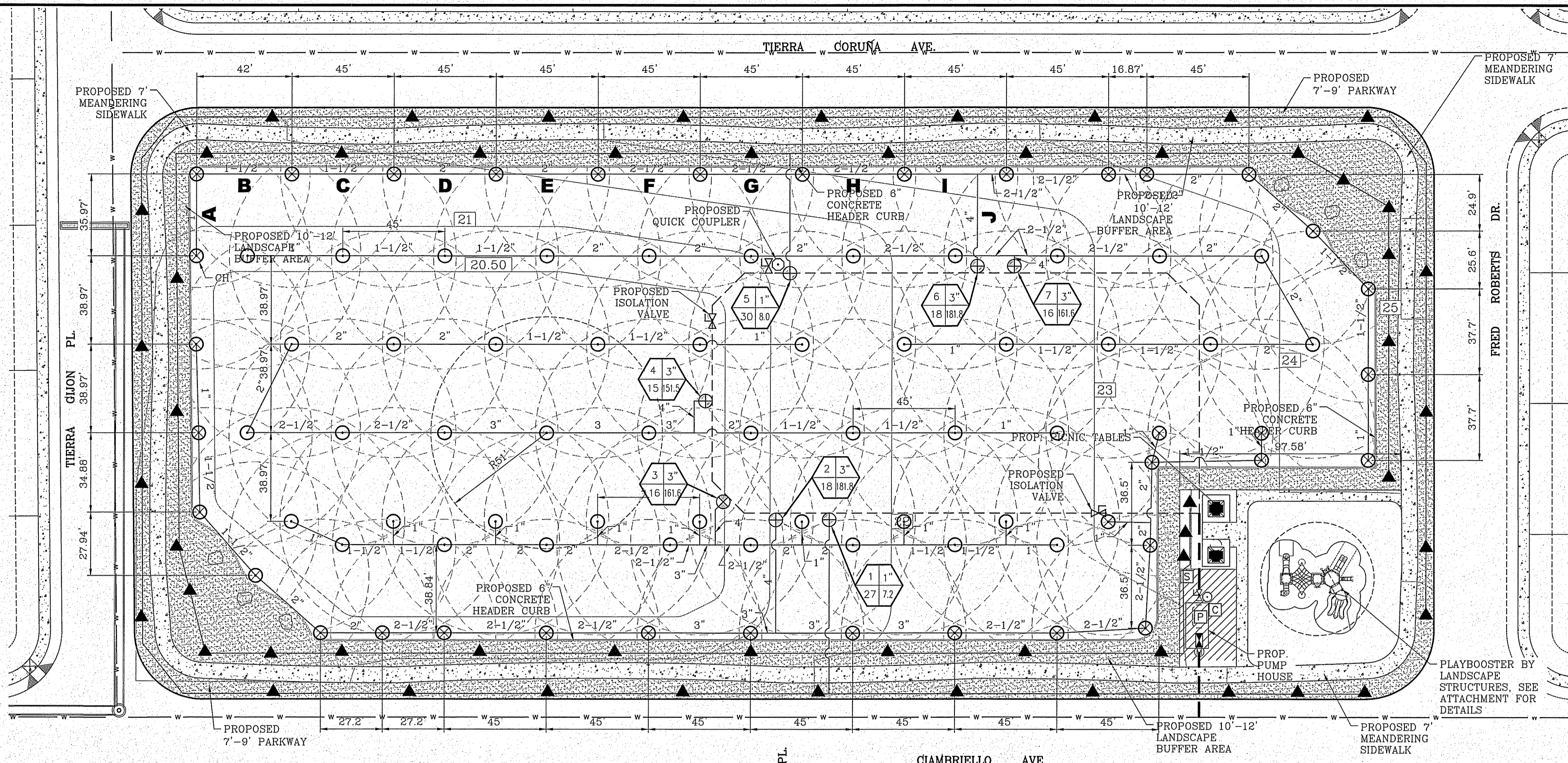
- ALL PVC PIPE PERTAINING DRIP EMITTERS TO BE CLASS 200 SIZE 1" UNLESS OTHERWISE NOTED

HEAD SPACING: 45'
ROW SPACING: 38.97'
RADIUS OF NOZZLE = 51'
.45 x 102 = 46.9
46.9 x .866 = 39.75'

THIS DESIGN COMPLIES WITH THE CITY OF EL PASO APPROVED PARK DESIGN STANDARDS ADOPTED JANUARY 8, 2013

NOTE:
IRRIGATION IS REGULATED BY THE TEXAS COMMISSION ON ENVIRONMENTAL QUALITY (T.C.E.Q.) (MC-178), P.O. BOX 13087, AUSTIN TEXAS. 78711-3037, TCEQ'S WEB SITE IS : WWW.TCEQ.STATE.TX.US

REGISTRATION NUMBER (PLD#): EABPRJB7603796



VALVE AND PRECIPITATION TABLE - ROTORS

VALVE NUMBER	VALVE SIZE	SPRINKLER MODEL TYPE	GPM	NUMBER OF HEADS	NOZZLE	PRECIPITATION RATES	RUNTIME FOR 0.67" OF WATER IN MINUTES
2	3"	I-25-06-SS-10	181.8	18	#10	1.11	36
3	3"	I-25-06-SS-10	161.6	16	#10	0.55	73
4	3"	I-25-06-SS-10	151.5	15	#10	0.55	73
6	3"	I-25-06-SS-10	181.8	18	#10	1.11	36
7	3"	I-25-06-SS-10	161.6	16	#10	0.55	73
TOTAL RUN TIME:				291 MIN.	OR	4 HRS.	51 MIN.

VALVE AND PRECIPITATION TABLE - EMMITTERS

VALVE NUMBER	VALVE SIZE	SPRINKLER MODEL TYPE	GPM	NUMBER OF HEADS	NOZZLE	PRECIPITATION RATES	RUN TIME IN MINUTES
1	1"	XERI-BIRD 8	7.2	27	XBD-80	-	45
5	1"	XERI-BIRD 8	8.0	30	XBD-80	-	45
TOTAL RUN TIME:				90 MIN.	OR	1 HRS.	30 MIN.

WATERING SCHEDULE

STATION NUMBER	GPM	RUN TIME		
		START TIME	END TIME	TOTAL MINUTES
2	181.8	12:00 AM	12:36 AM	36 MIN.
3	161.6	12:36 AM	1:49 AM	73 MIN.
4	151.5	1:49 AM	3:02 AM	73 MIN.
6	181.8	3:02 AM	3:38 AM	36 MIN.
7	161.6	3:38 AM	4:51 AM	73 MIN.
TOTAL RUN TIME, THREE DAYS PER WEEK:		4	HRS.	51 MIN.

PARKS DEPARTMENT

PRECIPITATION REVIEWED BY: [Signature] 02/07/2017

FULL SPRAY

PR = $\frac{\text{FULL HEAD GPM} \times 96.25}{\text{HEAD SPACING} \times \text{ROW SPACING}}$
 $\text{PR} = \frac{10.1 \times 96.25}{45' \times 38.97'} = \frac{972.125}{1753.65} = 0.55 \text{ IN./HR.}$

HALF SPRAY

PR = $\frac{\text{FULL HEAD GPM} \times 96.25}{\text{HEAD SPACING} \times 0.433}$
 $\text{PR} = \frac{10.1 \times 96.25}{45' \times 0.433} = \frac{972.125}{19.485} = 1.11 \text{ IN./HR.}$

HYDRAULIC CALCULATION TABLE

ZONE #6	PIPE LENGTH (FEET)	FLOW (GPM)	SIZE (IN)	STATIC PRESSURE AS PER PSB:	55	SECTION GPM	181.8
LATERAL PIPE SECTION							
A-PVC CLASS 200	36	10.1	1"	1.437		0.5173	0.5173
B-PVC CLASS 200	42	20.2	1-1/2"	0.839		0.3524	0.8697
C-PVC CLASS 200	45	30.3	1-1/2"	1.773		0.7979	1.6676
D-PVC CLASS 200	45	40.4	2"	1.012		0.4554	2.1230
E-PVC CLASS 200	45	50.5	2"	1.528		0.6876	2.8105
F-PVC CLASS 200	45	60.6	2-1/2"	0.839		0.3776	3.1881
G-PVC CLASS 200	45	70.7	2-1/2"	1.111		0.4999	3.6881
H-PVC CLASS 200	45	80.8	2-1/2"	1.427		0.6421	4.3303
I-PVC CLASS 200	32	90.9	3"	0.678		0.2170	4.5473
J-PVC CLASS 200	38	181.8	4"	0.718		0.2728	4.8201
TOTAL LATERAL PIPING PRESSURE LOSS IN PSI							
IRRIGATION ITEM							
ZONE VALVE	181.8	3"		3.872		8.6921	
MAIN LINE-PVC SCHED 40 (LOOPED MAIN)	616	181.8	3"	1.437		8.852	17.5440
MAIN LINE-PVC SCHED 40	34	181.8	4"	0.7612		0.259	17.8028
BACKFLOW						9.05	26.8528
TYPE K COPPER LINE (THROUGH PUMP AND BACKFLOW)	29	181.8	4"	1.080		0.313	27.1660
WATER METER						1.53	34.6960
ELEVATION GAIN						# OF FT. 1.5	0.650
TOTAL PRESSURE LOSS							
MINIMUM HEAD PRESSURE (I-25 ADJ #10 LIGHT GREEN @ 50 PSI-51' RADIUS 10.1 GPM)							
PRESSURE AT CRITICAL HEAD (STATIC 55 - LOSSES 34.047 = 20.953) ACTUAL							
PRESSURE SHORTAGE							
DESIGN PRESSURE (REQ'D PRESSURE @ CRITICAL HEAD PLUS LOSSES) 50 + 34.0465 = 84.0465							
PUMP REQUIREMENTS (PRESSURE SHORTAGE CONVERTED TO (FT. HEAD) X 2.31) X 10% = FT HD @ 181.8 GPM							
PUMP REQUIREMENTS (PRESSURE SHORTAGE CONVERTED TO (FT. HEAD) X 2.31) X 10% = FT HD @ 181.8 GPM							
50 - 20.953 = 29.047 X 2.31 = 67.097 X 10% = 73.807							
73.807 FT. HEAD @ 181.8 GPM							

PROJECT NAME: ESPAÑOLA PARK 14601 CIAMBRIELLO AVE.
 BEING ALL OF LOT 1, BLOCK 462, TIERRA DEL ESTE UNIT 73, 132,495.51 S.F. OR 3.042 ACRES

DATE: 07/15/16
 REVISIONS: PARCS REDLINES AS PER 4/7/16 COMMENTS
 10/06/16 PARCS REDLINES AS PER 9/23/16 COMMENTS
 2/1/17 PARCS REDLINES AS PER 11/21/16 COMMENTS

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

DESIGN BY: EM/RR
 CHECKED BY: R.R.
 INCHES BY: R.M.
 JOB NO.: 2017-001

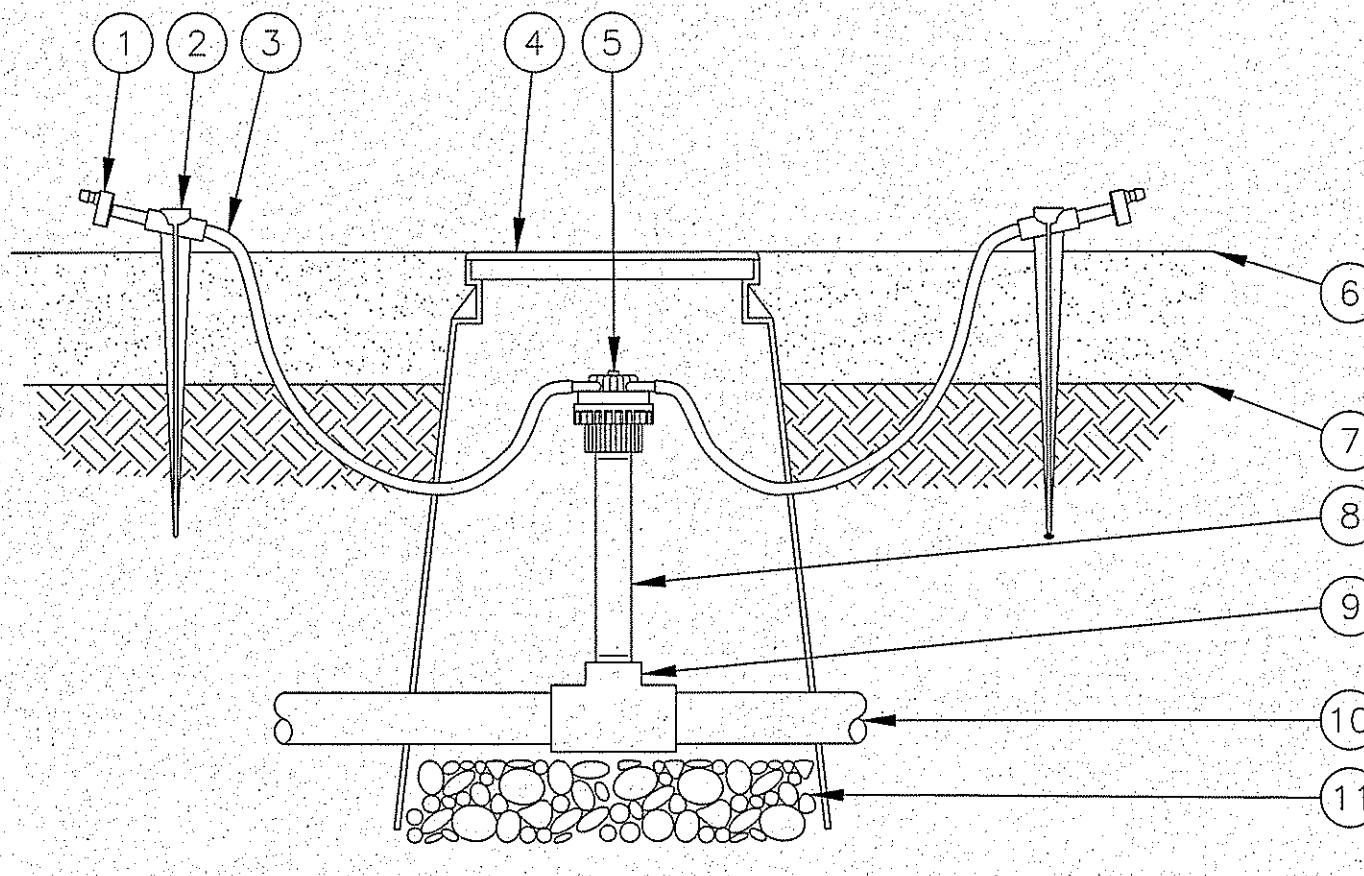
CONDE INC. ENGINEERING / PLANNING SURVEYING / GPS
 6080 SURETY DR. STE 100 EL PASO, TEXAS 79905
 PHONE: (915) 592-0265 FAX: (915) 592-0266

REGISTRATION NO. F-2321

SHEET TITLE: PROPOSED PARK IRRIGATION PLAN

SHT L2 OF L5

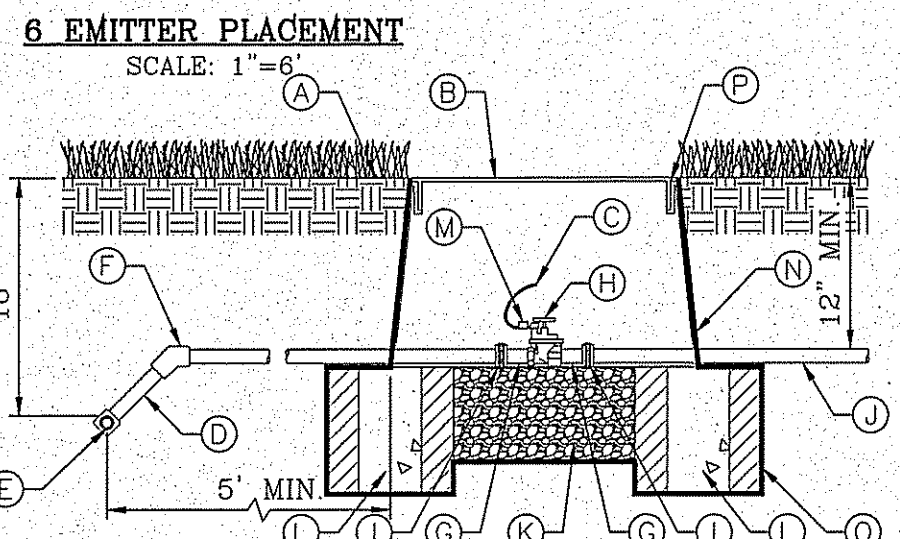
FILE LOCATION S:\LANDSCAPE\73 PARK\DWG\DETAILS PLOTTED ON Monday, February 06, 2017 9:45:50 AM BY ESTEBAN JUAREZ



- ① SINGLE-OUTLET BARB INLET X BARB OUTLET EMITTER:
RAIN BIRD XERI-BUG OR PC MODULE EMITTER:
(1 OF 2 SHOWN, 6 POSSIBLE)
- ② UNIVERSAL 1/4" TUBING STAKE:
RAIN BIRD TS-025
(1 OF 2 SHOWN, 6 POSSIBLE)
- ③ 1/4" DISTRIBUTION TUBING:
RAIN BIRD XQ TUBING (LENGTH AS REQUIRED)
(1 OF 2 SHOWN, 6 POSSIBLE)
- ④ SUBTERRANEAN EMITTER BOX:
RAIN BIRD SEB 7XB
- ⑤ SIX OUTLET MANIFOLD:
RAIN BIRD EMT-6XERI
- ⑥ TOP OF MULCH
- ⑦ FINISH GRADE
- ⑧ PVC SCH 80 NIPPLE
(LENGTH AS REQUIRED)
- ⑨ PVC SCH 40 TEE OR ELL
- ⑩ PVC LATERAL PIPE
- ⑪ 3" MINIMUM DEPTH OF
3/4" WASHED GRAVEL

NOTES:
1. SHOULD THE EMITTER BECOME DISLODGED UNREGULATED FLOW WILL OCCUR.
2. THE 6 OUTLET MANIFOLD PROVIDES A CENTRALIZED WATER DISTRIBUTION CONNECTION FOR UP TO 6 IRRIGATION DEVICES. THE FOLLOWING EMITTERS CAN BE INSERTED INTO THE 1/4" TUBING FROM THE EMT-6XERI:

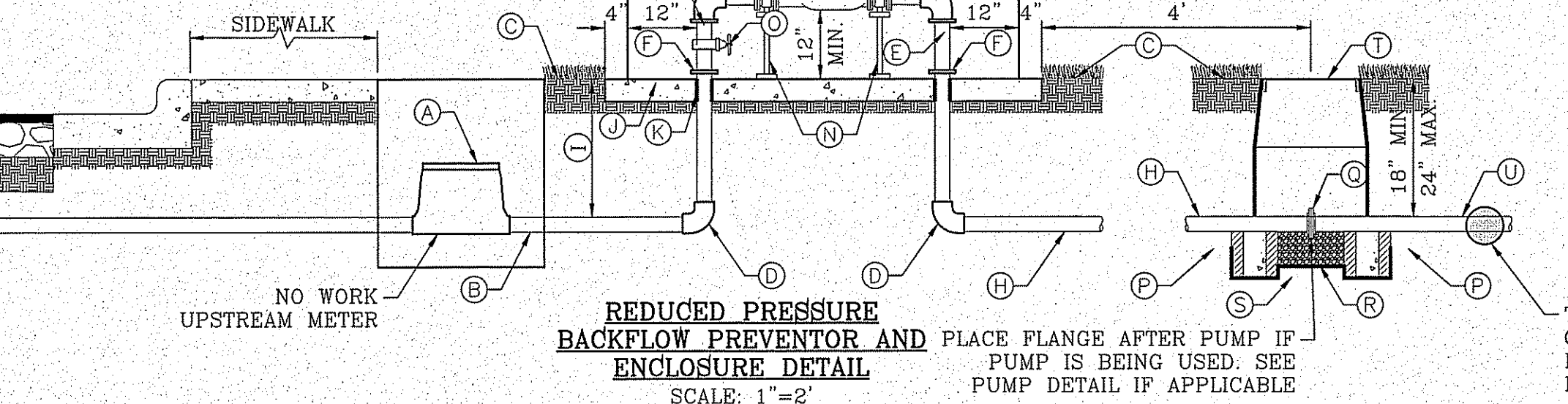
- RAIN BIRD XERI-BUG BARB X BARB EMITTERS:
XB-05PC 0.5 GPH XB-10PC 1.0 GPH XB-20PC 2.0 GPH
- RAIN BIRD PC MODULE BARB X BARB EMITTERS:
PC-05 5 GPH PC-07 7 GPH PC-10 10 GPH
PC-12 12 GPH PC-18 18 GPH PC-24 24 GPH



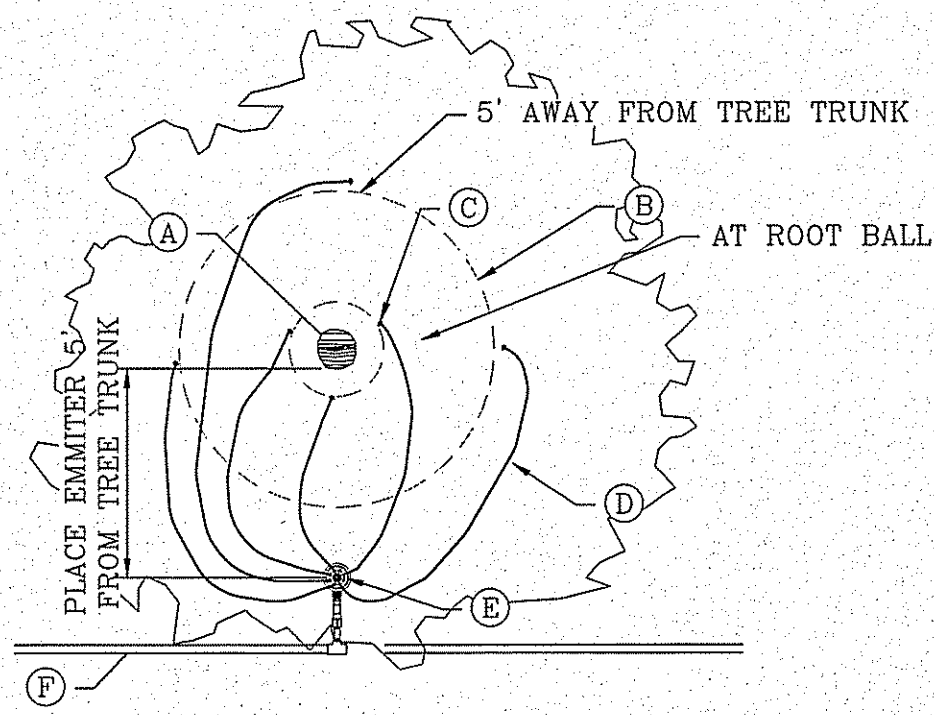
6 EMITTER PLACEMENT
SCALE: 1"=6'

- (A) PROPOSED METER SERVICE LINE, NO OUTLETS ALLOWED. COPPER
- (B) FINISH GRADE
- (C) TYPE K COPPER ELL
- (D) TYPE K COPPER NIPPLE
- (E) BRASS UNION, 4" ABOVE GRADE, MIN. BACKFLOW PREVENTOR DEVICE (SEE PLAN)
- (F) COPPER MAINLINE
- (G) 28" MINIMUM DEPTH
- (H) 3000 PSI CONCRETE PAD, 4" DEPTH, EXTEND 4" BEYOND EDGE OF ENCLOSURE
- (I) PIPE SHALL BE SLEEVED THROUGH CONCRETE PAD WITH SEALED SHC 40 PVC.
- (J) BACKFLOW ENCLOSURE TO BE ASSE 1060 CERTIFIED CLASS II OR III
- (K) NOT USED.
- (L) STEEL SUPPORT BRACKETS BOLTED TO CONCRETE PAD
- (M) BRASS ISOLATION VALVE
- (N) BRICK BLOCK AT EACH CORNER
- (O) FLANGE
- (P) 3/8" PEA GRAVEL, 4" DEEP (NO SOIL IN BOX) SET IN CARLSON VALVE BOX
- (Q) WEED CLOTH ALL AROUND BOX PIPE AND UNDER PEA GRAVEL. TAPE TO SEAL ALL GAPS AND PENETRATIONS. USE 3M HIGH GRADE PLASTIC TAPE
- (R) 1419 CARLSON VALVE BOX WITH LID AND BOLT. COLOR TO BE TAN FOR ROCK MULCH AREAS AND GREEN FOR TURF AREAS
- (S) PVC MAINLINE AS PER IRRIGATION PLAN

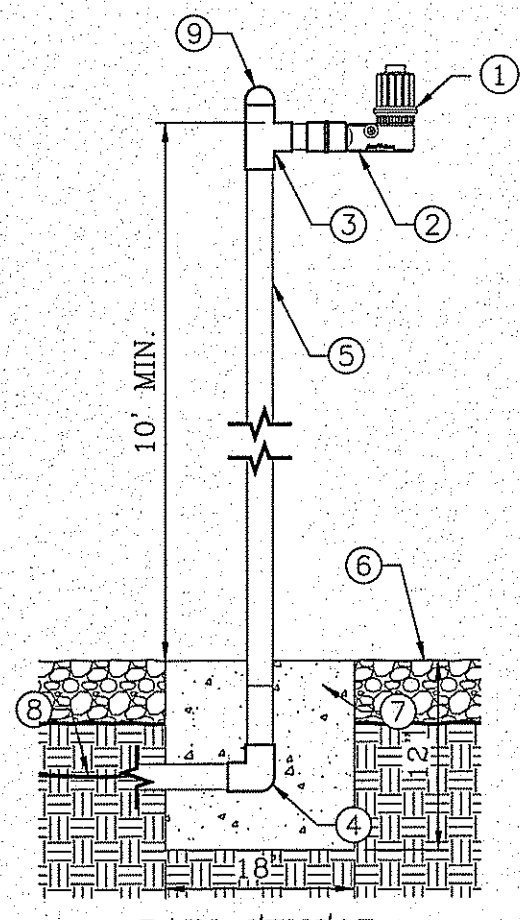
- GENERAL NOTES:**
- ENCLOSURE MUST COMPLY WITH ASSE#1060 FOR BACKFLOW DEVICE.
 - DO NOT INSTALL IN FLOOD PRONE AREAS.
 - METAL RISER PIPING REQUIRED.
 - JOINTS TO BE ADEQUATELY RESTRAINED.
 - HORIZONTAL INSTALLATION REQUIRED AS SHOWN. RFPB SHALL BE SUPPORTED AT ALL TIMES DURING AND AFTER INSTALLATION. PIPES ARE NOT TO BARE WEIGHT OF RP DEVICE. BACKFLOW PREVENTION DEVICE SHALL BE PROPERLY SUPPORTED BY BRACKETS AND NOT COPPER RISERS OR COPPER RISERS WILL BE REPLACED.
 - CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING, COORDINATING, AND INSTALLING ALL ELECTRICAL AND ELECTRICAL SUPPLIES NECESSARY FOR THE INSTALLATION AND OPERATION OF THE IRRIGATION SYSTEM SPECIFIED.
- ELECTRICAL NOTES:**
- ALL ELECTRICAL SHALL BE IN COMPLIANCE WITH ALL APPLICABLE CODES, ORDINANCES AND REQUIREMENTS OF ALL GOVERNING BODIES HAVING JURISDICTION.



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

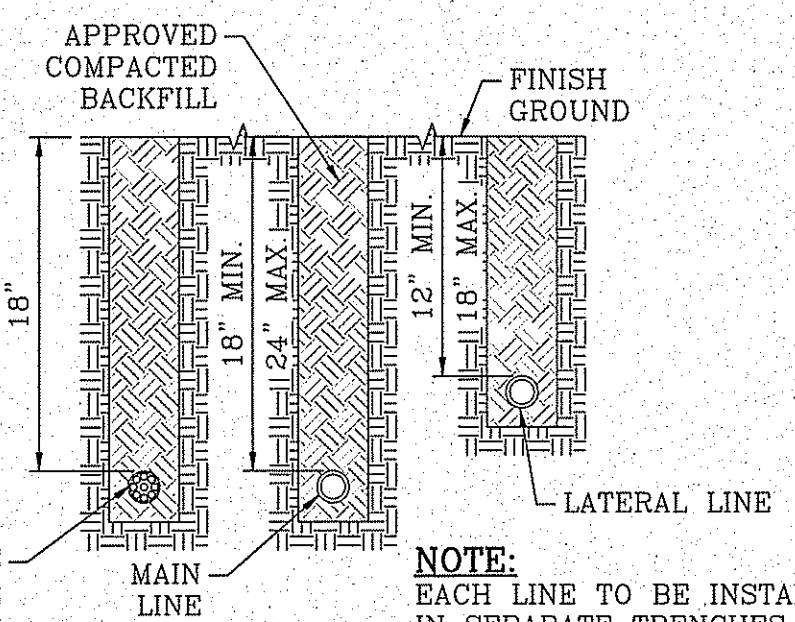


EMITTER PLACEMENT
SCALE: 1"=6'



RAIN SENSOR RSD-CEX POLE MOUNT 1/8" SETTING
SCALE: 1"=1'

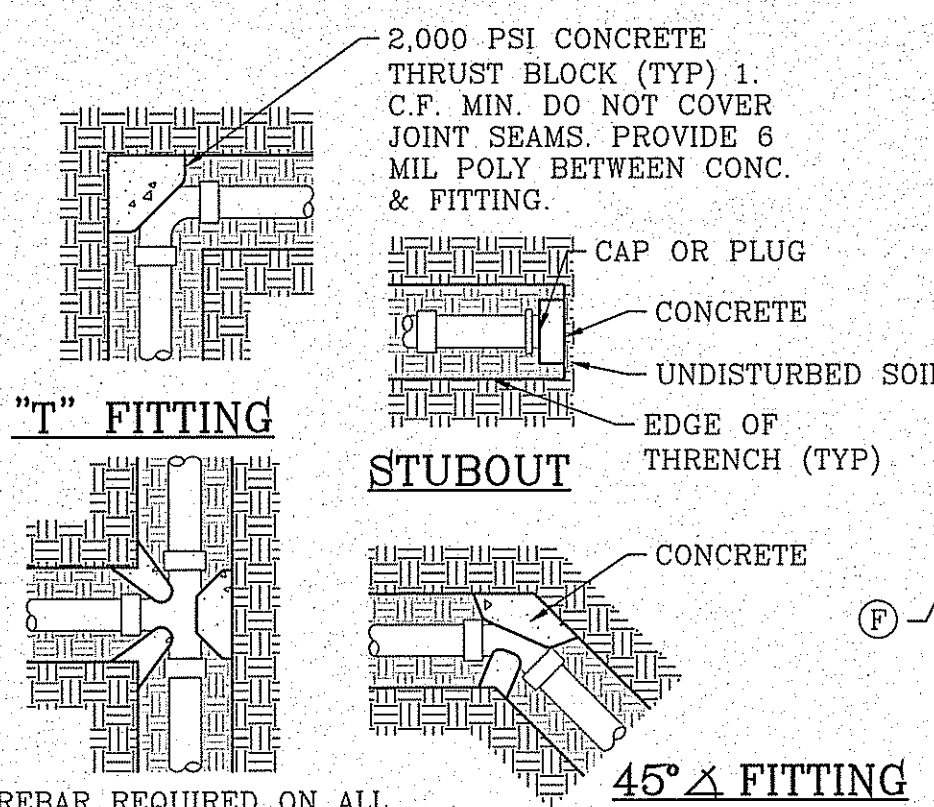
- ① RAIN SENSOR: RAIN BIRD RSD-CEX
- ② FEMALE ADAPTER (SLIP X FIPT)
- ③ GALVANIZED TEE BEND
- ④ GALVANIZED 90° BEND
- ⑤ 2 1/2-INCH SCHEDULE 40 GALVANIZED PIPE
- ⑥ FINISHED GRADE
- ⑦ 12"X18" CONCRETE BASE
- ⑧ WIRE TO IRRIGATION CONTROLLER
- ⑨ GALVANIZED STEEL CAP TO BE SECURED IN PLACE
- ⑩ MINIMUM 7' AWAY FROM ANY STRUCTURE



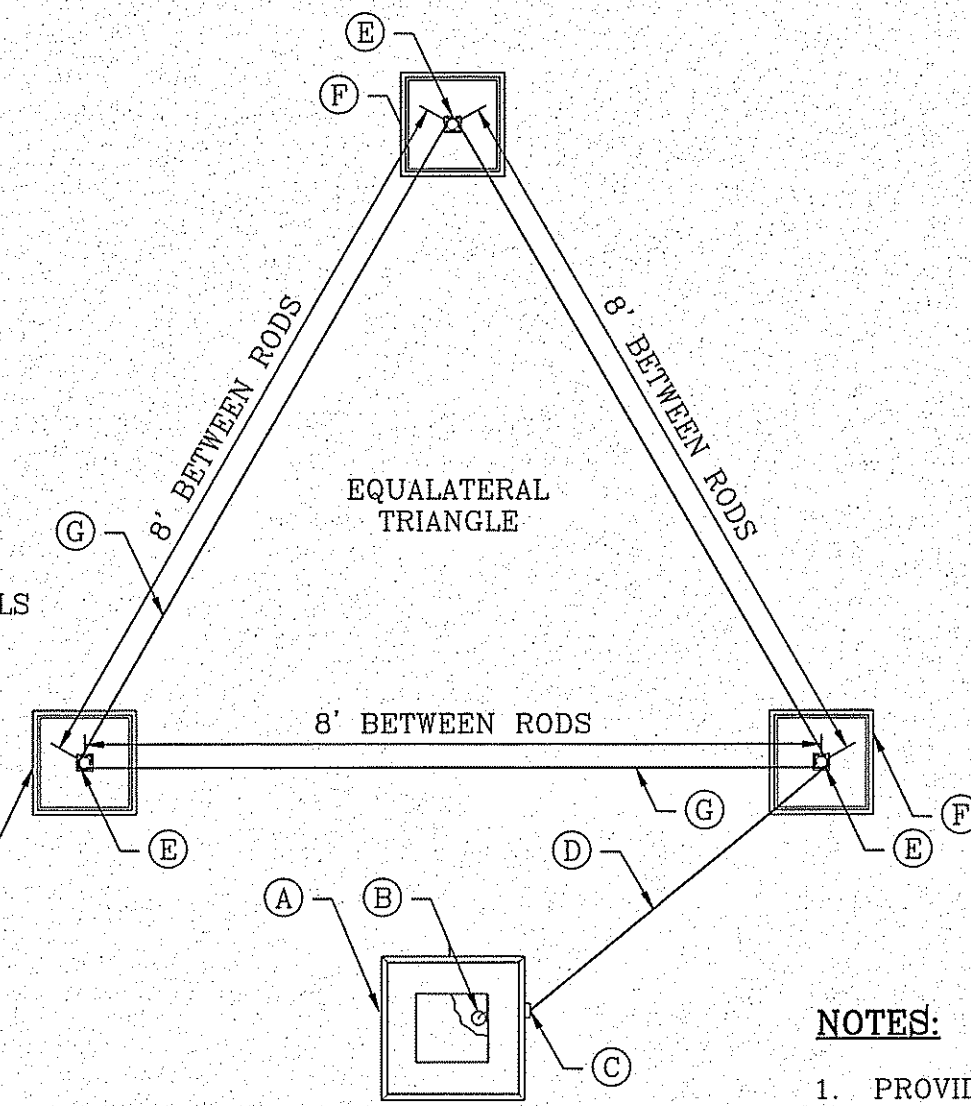
TRENCH DETAIL
SCALE: 1"=1'

VALVE ELECTRICAL WIRES 5' FROM THE MAIN LINE (PROVIDE 3 ADDITIONAL WIRES COLORS, VIOLET, ORANGE, AND BLUE IN BUNDLE FOR FUTURE)

NOTE: EACH LINE TO BE INSTALLED IN SEPARATE TRENCHES AT A MINIMUM OF 5' APART



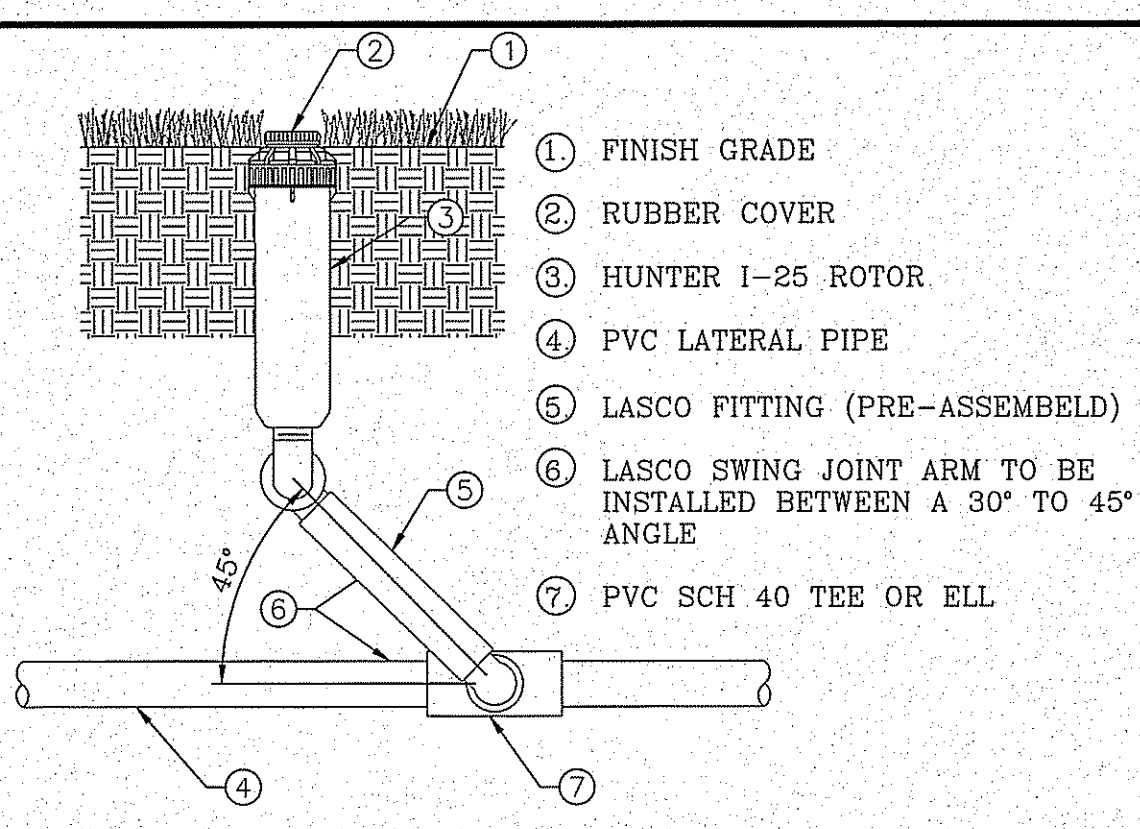
THRUST BLOCKING DETAIL
SCALE: 1"=1'



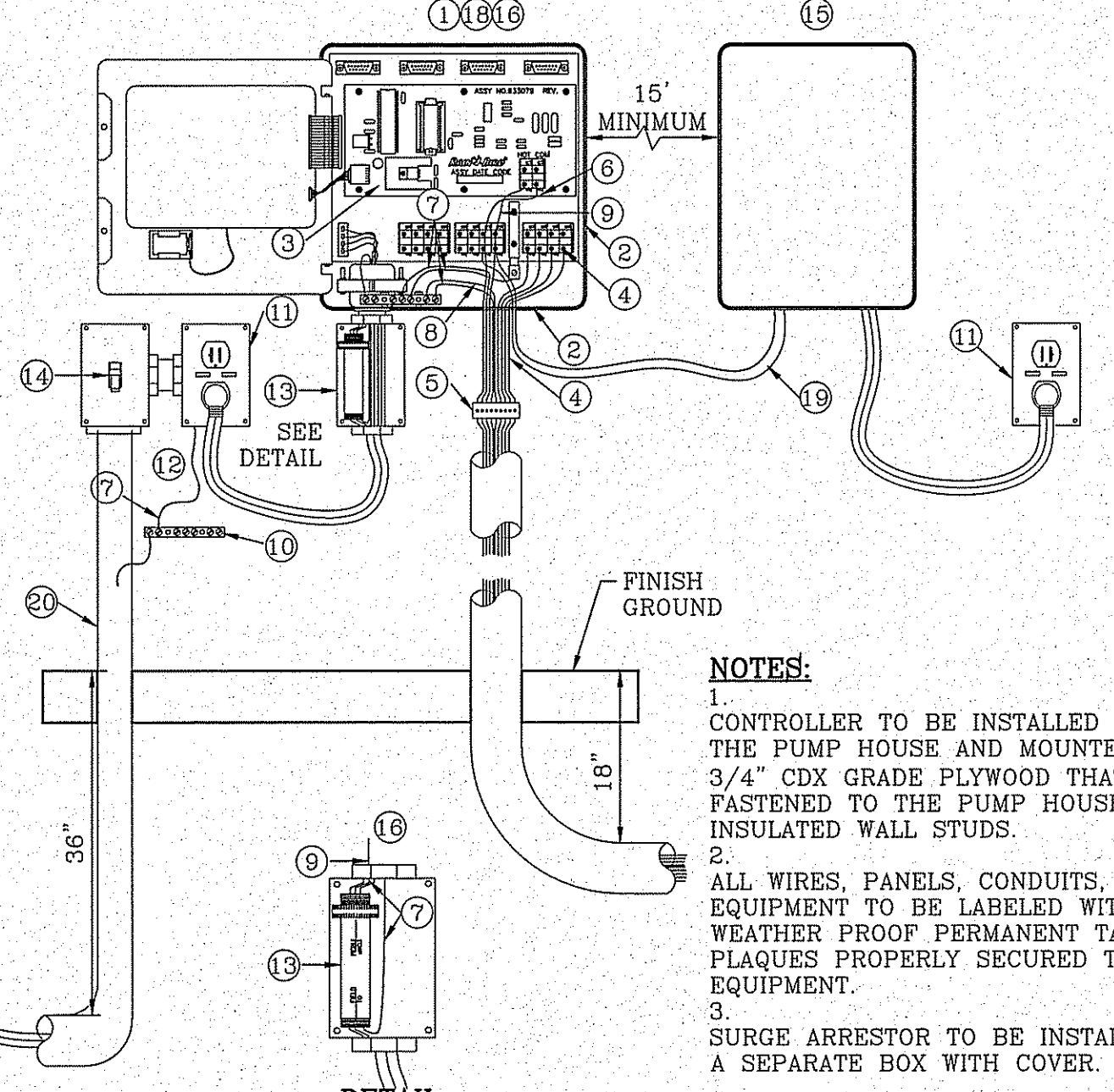
TRIANGULAR GROUNDING GRID DETAIL
SCALE: 1"=2'

- (A) SATELLITE
- (B) #10 BARE COPPER WIRE FROM GROUNDING TERMINAL LUG
- (C) CONDUIT FROM SATELLITE
- (D) #10 BARE COPPER WIRE FED THROUGH CONDUIT FROM SATELLITE TO GROUNDING ROD
- (E) GROUNDING ROD FROM GK-UL3ROD THREE ROD KIT
- (F) TAN COLOR CARSON 910 SERIES BOX W/ LID & BOLT (1 OF 3)
- (G) #10 BARE COPPER WIRE FROM VALVE BOX HELD IN PLACE WITH BRASS CLAMP (SEE DETAIL FOR "GROUNDING WIRES IN GRID")

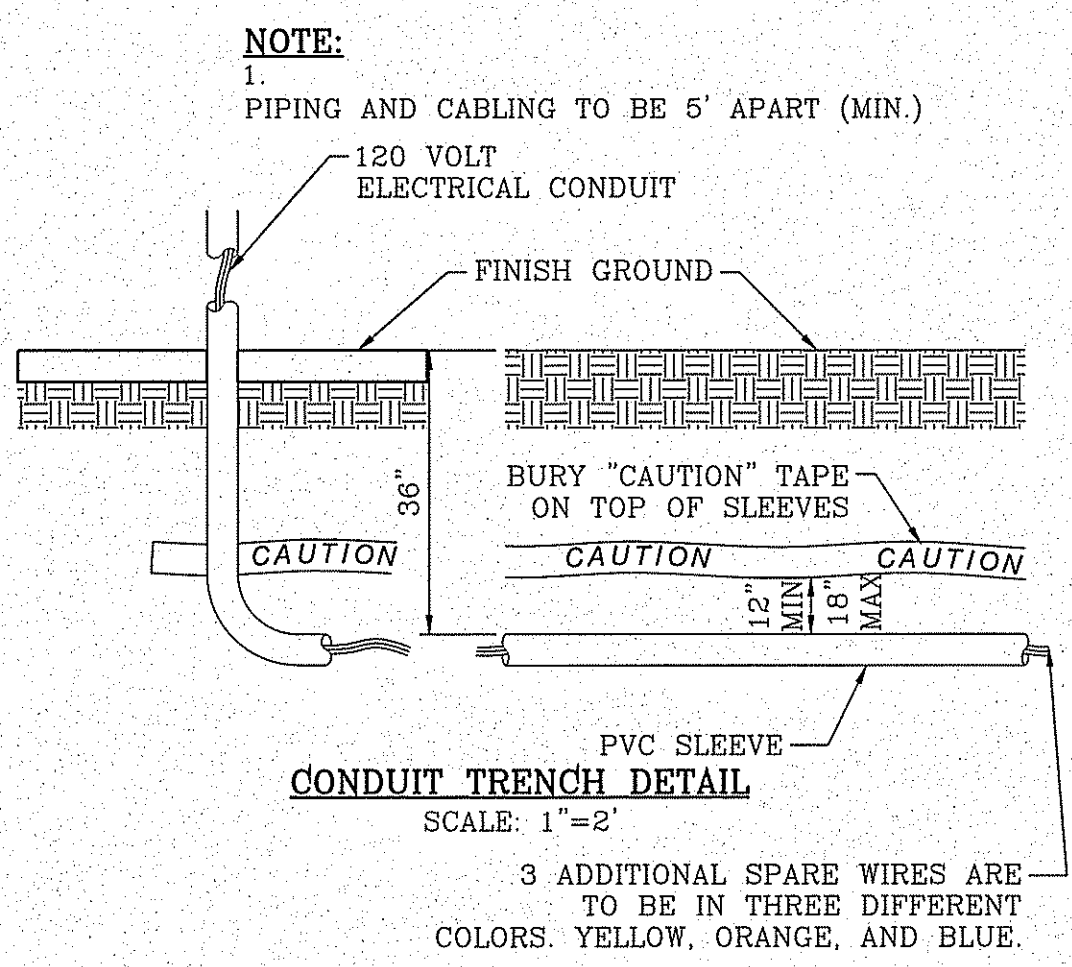
NOTES:
1. PROVIDE WEED CLOTH UNDER AND AROUND THE VALVE BOX AND TAPE IT. PROVIDE WASHED 3/8" PEA GRAVEL 4" DEEP
2. PLAN VIEW FOR LAYOUT ONLY. SEE GROUNDING ROD NOTES FOR INSTALLATION INSTRUCTIONS.



HUNTER 1-25
SCALE: 1"=1'



ESP-LXME INSTALLATION DETAIL
SCALE: 1"=1'



CONDUIT TRENCH DETAIL
SCALE: 1"=2'

3 ADDITIONAL SPARE WIRES ARE TO BE IN THREE DIFFERENT COLORS. YELLOW, ORANGE, AND BLUE.



PARKS DEPARTMENT
REVIEWED BY *[Signature]* 02/07/2017

BENCHMARK

REVISIONS

DATE

BY

PROJECT NAME

ESPAÑOLA PARK
14601 CIAMBRIELLO AVE.
BEING ALL OF LOT 1, BLOCK 462
TIERRA DEL ESTE, UNIT 73
132,495.51 S.F. OR 3.042 ACRES

SCALE

HORIZ: AS NOTED

VERT: ---

DATE: SEPT. 2014

DESIGN BY: RM/RR

INITIATED BY: R.R.

CHECKED BY: R.M.

JOB NO.:

ARRANGATOR'S SEAL

02/06/17

REYMONDO MARTINEZ
9000

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

REGISTRATION No. F-221

SHEET TITLE

IRRIGATION DETAILS

SHT L3 OF L5

LANDSCAPE NOTES:

- 1. PLANT MATERIAL SUBSTITUTIONS SHALL NOT BE MADE WITHOUT THE WRITTEN PERMISSION OF THE OWNER...
2. PLANT MATERIAL QUALITY, SIZE AND CONDITION SHALL BE IN ACCORDANCE WITH AMERICAN STANDARD FOR NURSERY STOCK...
3. ALL PLANTS SHALL BE TYPICAL OF THEIR SPECIES OR VARIETY...
4. UNLESS OTHERWISE STATED ON THE DRAWINGS OR APPROVED BY THE OWNER'S REPRESENTATIVE...
5. NON-CONTAINER GROWN PLANTS SHALL HAVE A SOLID BALL OF EARTH OF MINIMUM SPECIFIED SIZE...
6. UNLESS SPECIFICALLY NOTED ON DRAWING...
7. ALL PLAN MATERIAL SHALL HAVE A UNIFORMED SHAPE AROUND ITS COMPLETE CIRCUMFERENCE...
8. THE OWNER'S REPRESENTATIVE SHALL BE THE JUDGE OF THE QUALITY AND ACCEPTABILITY...
9. ALL TREES, SHRUBS AND GROUND COVERS SHALL BE GUARANTEED FOR THE PERIOD OF ONE FULL YEAR...
10. ALL PLANTING BEDS SHOWN ON PLANS SHALL BE MULCHED...

GRADING

- 1. PERFORM GRADING AND EXCAVATION WORK IN COMPLIANCE WITH APPLICABLE SPECIFICATIONS, REQUIREMENTS, CODES AND ORDINANCES...
2. FINE GRADING: SURFACE SHALL BE RAKED FREE OF STONES AND EXTRANEUS MATERIALS AND DEBRIS TO A SMOOTH AND EVEN TEXTURE...

PROTECTIONS:

- 1. CONTRACTOR SHALL BE FAMILIAR WITH PLANS, DETAILS AND SPECIFICATIONS AS THEY PERTAIN TO THE SITE...
2. EXISTING UTILITY LINES ARE TO BE BLUE STAKED PRIOR TO EXCAVATION...
3. THE CONTRACTOR SHALL BE LIABLE FOR ANY LOOSE OR DAMAGE TO ANY WORK OR MATERIALS...
4. CONTRACTOR IS TO BARRICADE OPEN EXCAVATIONS OCCURRING AS PART OF THIS WORK...
5. PROTECT STRUCTURES, UTILITIES, SIDEWALKS, PAVEMENTS, AND OTHER FACILITIES...
6. CONTRACTOR SHALL COORDINATE ALL WORK WITH OTHER CONTRACTORS.

GENERAL NOTES:

- 1. THE DEVELOPER SHALL REGISTER THE PROJECT WITH TDLR...
2. ALL TURF AREAS ARE HYBRID BERMUDA 'SANTA ANA' SOD OR SEED...
3. SEEDING NEEDS TO OCCUR BETWEEN APRIL 15 THROUGH JUNE 15...
4. TREE LOCATIONS TO BE COORDINATED WITH PARKS DEPARTMENT...
5. ENGINEERED WOOD CHIP FIBERS SHALL BE COMPACTED AS PER THE SUPPLIER'S TESTING LAB RECOMMENDATIONS...
6. SILT FENCE TO BE INSTALLED AND MAINTAINED ALONG THE PERIMETER...

IRRIGATION NOTES

- 1. ALL WORK MUST BE IN COMPLIANCE WITH THE TEXAS COMMISSION ON ENVIRONMENTAL QUALITY RULES AND REGULATIONS...
2. ANY DAMAGE CAUSED BY THE CONTRACTOR SHALL BE REPAIRED OR REPLACED BY CONTRACTOR...
3. THE CONTRACTOR SHALL PROVIDED ALL EQUIPMENT, TOOLS, PRODUCTS, MATERIALS, LABOR, TRANSPORTATION...
4. ALL PAVEMENT TRENCHING SHALL BE IN PERFORMED TO THE CITY OF EL PASO...
5. PIPING UNDER HARDSCAPES (DRIVEWAYS, SIDEWALKS, etc. etc.) SHALL REQUIRE SLEEVEING...
6. ALL SPRINKLER HEADS ADJACENT TO HARDSCAPES SHALL BE PLACED A MINIMUM OF ONE FOOT...
7. SOME PIPES, VALVES, BACKFLOWS etc. etc. HAVE BEEN SHOWN IN PAVING, SIDEWALKS...
8. STATIC PRESSURE (60 PSI) BASED ON CLOSEST FIRE HYDRANT TO THE PROJECT SITE...
9. CONTRACTOR IS REQUIRED TO APPLY FOR AND OBTAIN IRRIGATION PERMIT FROM BP&I

TRENCHING

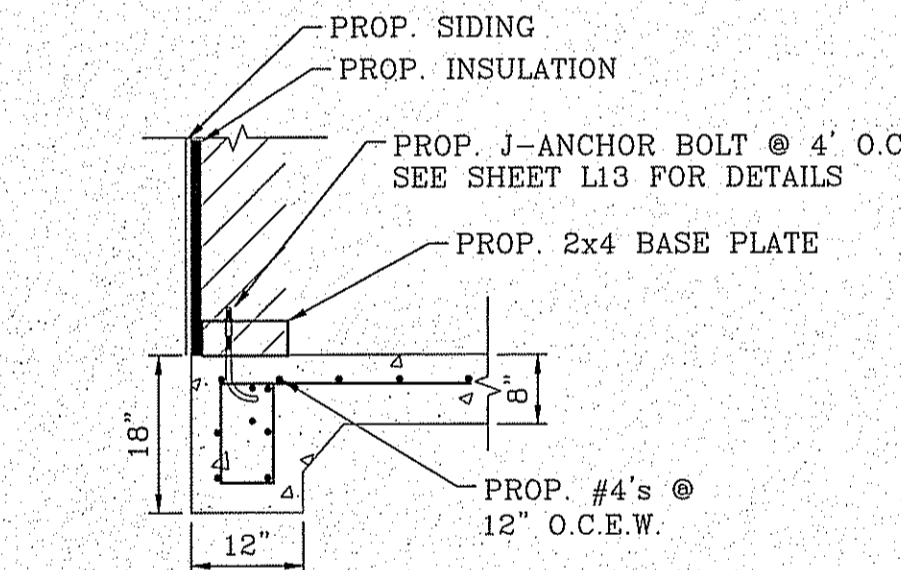
- 1. CONTACT LOCAL UTILITY COMPANIES AND BLUE STAKE ALL UTILITIES PRIOR TO EXCAVATION...
2. ALL TRENCHING SHALL BE DONE IN STRICT ACCORDANCE WITH OSHA-2226...
3. PIPES MUST BE FLUSHED AND INSPECTED BY PROJECT INSPECTOR BEFORE INSTALLING VALVES...
4. PIPES SHALL NOT BE BURIED UNTIL INSPECTED BY PROJECT INSPECTOR...
5. AVOID OBSTACLES (UTILITIES, TREE ROOTS, BOULDERS etc. etc.) ALLOW A MINIMUM OF TWO INCHES...
6. BACKFILL MATERIAL SHALL CONTAIN NO LUMPS, ROCKS LARGER THAN ONE INCH...
7. IF EXCAVATING 16 INCHES OR DEEPER WITH POWER EQUIPMENT...
8. LATERAL LINES SHALL BE TO A DEPTH OF 12". MAIN LINES SHALL BE TO A DEPTH OF 18"...

SOLVENT WELDING

- 1. USE IPS WELD-ON CLEANER AND PURPLE PRIMER P68 OR P70 TO CLEAN AND PREPARE THE PIPES...
2. USE IPS WELD-ON GRAY GLUE #711 HEAVY DUTY...
3. LACK OF SUFFICIENT SOLVENT WILL RESULT IN A WEAK CONNECTION...
4. PIPE BENDS AND FITTINGS MUST BE INSPECTED DURING PRESSURE TEST...
5. CLEAN OFF ALL BURRS FROM PIPE CUTS...
6. WIRE SPICES MUST BE WATERPROOF AS PER MANUFACTURER'S SPECIFICATIONS.

ELECTRICAL WIRING

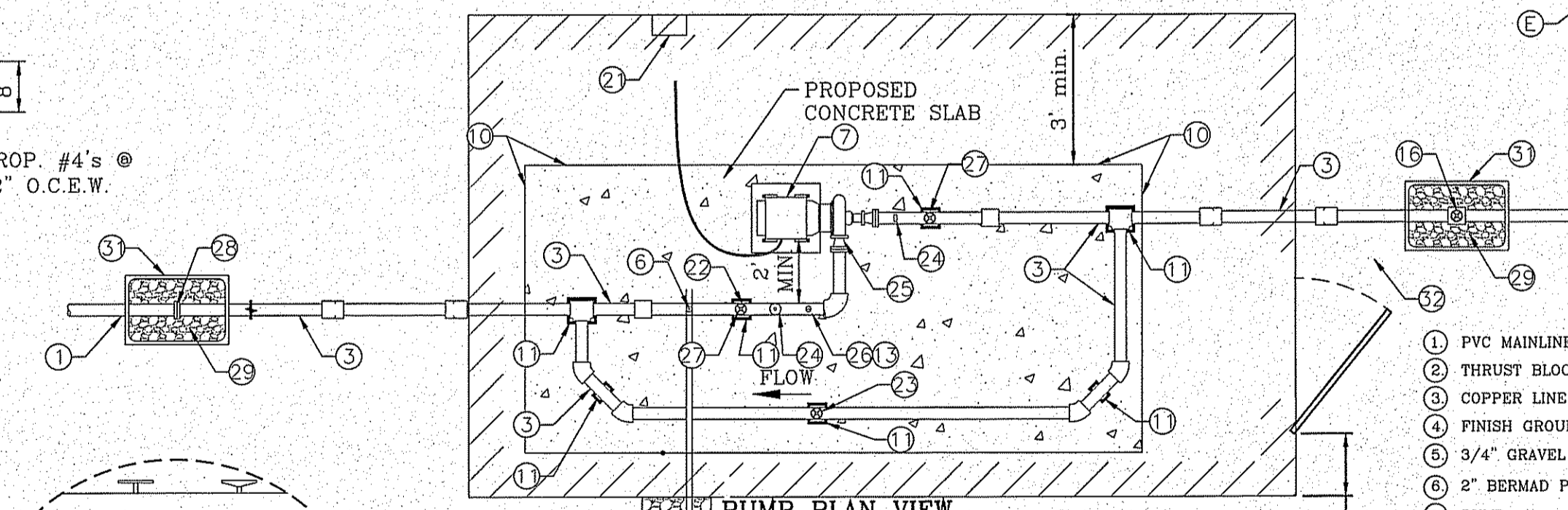
- 1. WIRES SHOULD NOT BE STRETCHED TIGHT IN THE TRENCHES...
2. WIRING SHALL BE UL LISTED FOR DIRECT BURIAL...
3. DIRECT BURIAL WIRE SPICES MUST BE WATERPROOF...
4. WIRES SHALL BE LABELED WITH WATERPROOF TAGS AT THE CONTROLLER AND VALVE BOX.



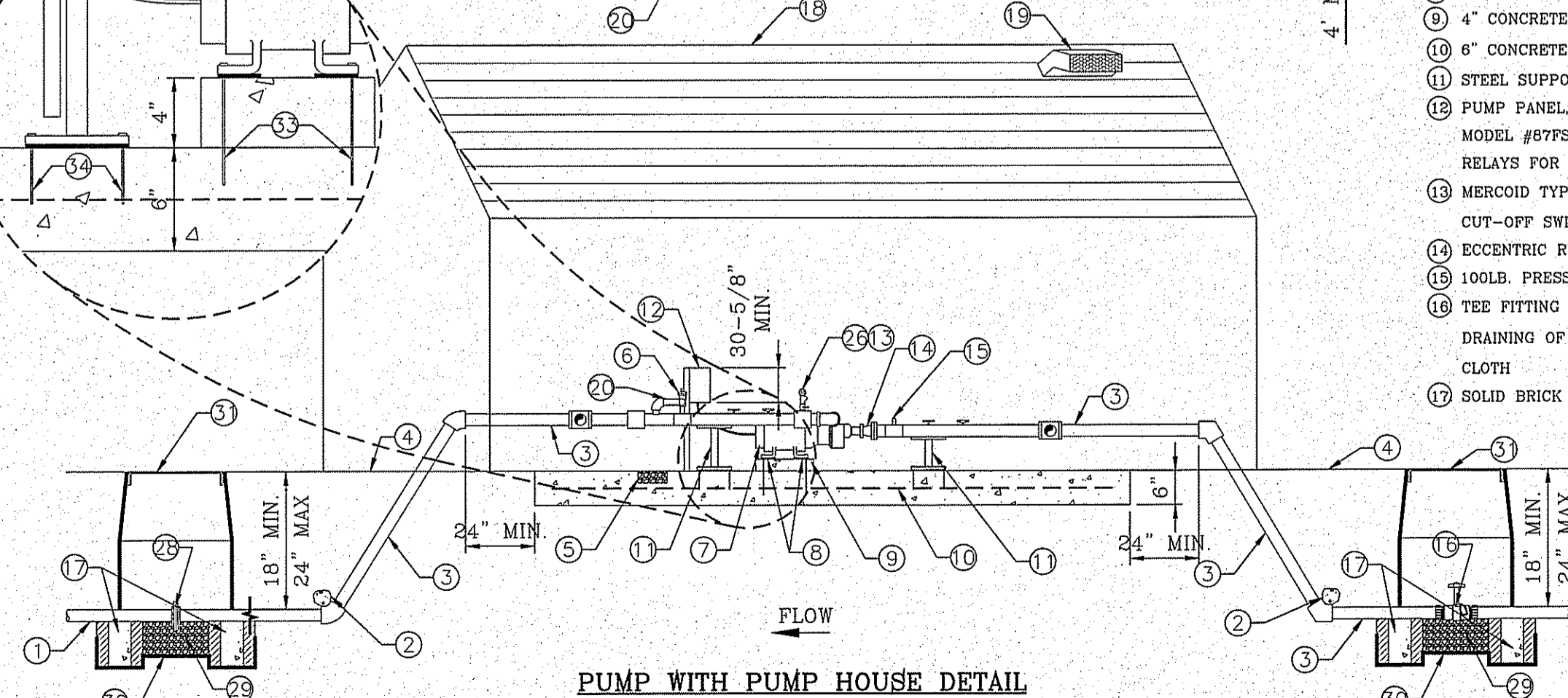
CONCRETE FOUNDATION FOR PUMP HOUSE SCALE: 1"=1'

- A FINISH GRADE
B 1419 CARSON VALVE BOX WITH LID AND BOLT. COLOR TO BE TAN FOR ROCK MULCH AREAS AND GREEN FOR TURF AREAS
C IRRIGATION MAINLINE/LATERAL MAINLINE
D IRRIGATION MAINLINE SERVICE TEE OR ELL
E WEATHERMATIC 8200CR-20 ELECTRIC CONTROL VALVE
F SCHEDULE 80 PVC UNIONS ON LINES 3" OR SMALLER, AND FLANGES ON LINES 3" OR LARGER
G LATERAL LINE
H 1 CUBIC FOOT 1" DIAMETER WASHED ROCK
I 6"x8"x16" SOLID CMU BLOCK
J PROVIDE WEED BARRIER FABRIC 'DeWITT PRO 5' UNDER AND AROUND VALVE BOX AND SEAL ALL PIPE PENETRATIONS RAINBIRD
K AMIAD WYE FILTER TO BE SET AT ANGLE TO BE ABLE TO DRAIN AND BE SERVICED READILY.
L WILKINS BF4 BRONZE BODY OR IN-LINE PRESSURE REGULATOR
M GAUGE

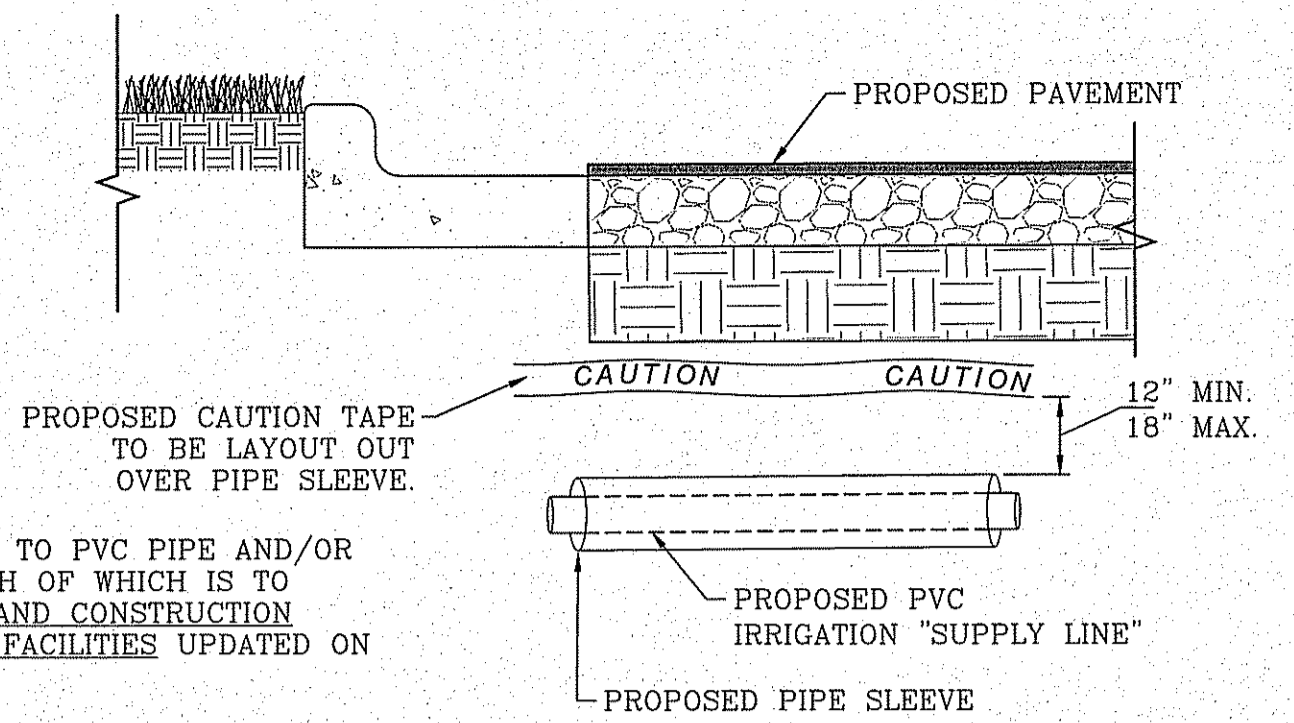
NOTE: PVC PIPE ASSEMBLIES AT IRRIGATION VALVES, PRESSURE REGULATOR AND FILTER ARE TO HAVE UNIONS ON BOTH INTAKE AND DISCHARGE SIDES OF THE EQUIPMENT...



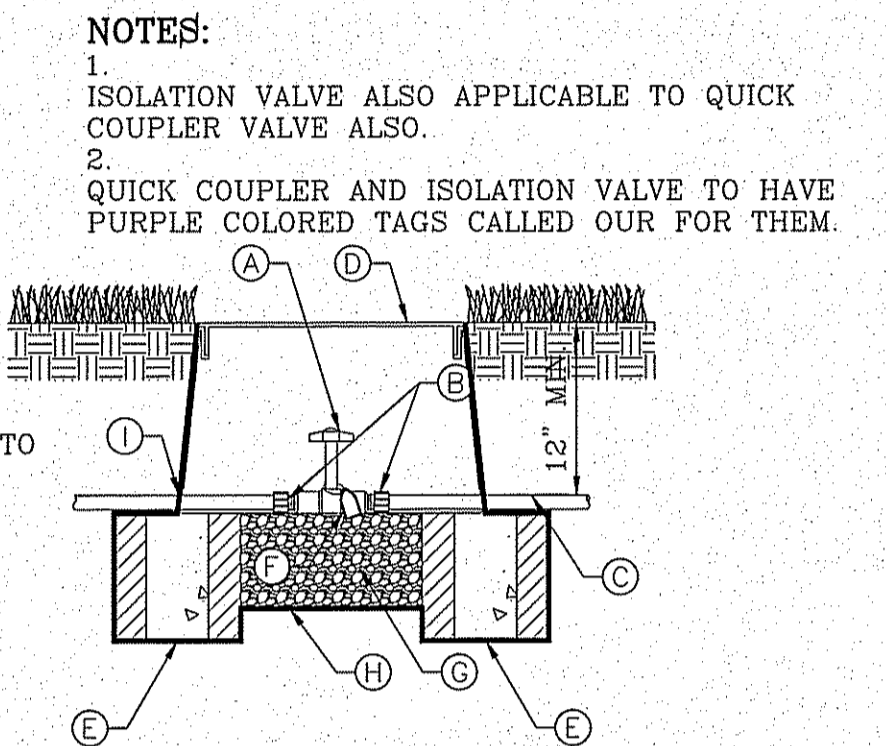
PUMP PLAN VIEW SCALE: 1"=2'



PUMP WITH PUMP HOUSE DETAIL SCALE: 1"=2'

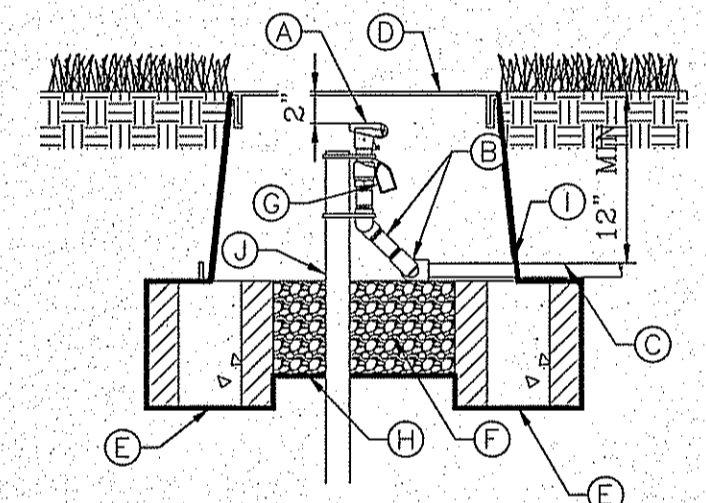


PIPE SLEEVE DETAIL WITH GENERAL NOTES SCALE: 1"=1'



ISOLATION VALVE SCALE: 1"=1'

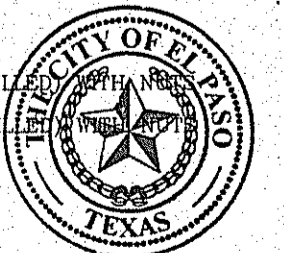
- A ISOLATION BRASS BALL VALVE (SAME SIZE AS PIPE)
B THREADED MALE ADAPTERS
C PVC LATERAL
D 419 PURPLE CARSON VALVE BOX W/ FLAT LID TO BE BOLTED DOWN.
E SOLID BRICK BLOCK AT EACH CORNER
F WATER PROOF TAGS THAT READ "NON-POTABLE WATER, NOT SAFE FOR DRINKING."
G 3/8" PEA GRAVEL, 4" DEEP (NO SOIL IN BOX)
H PROVIDE WEED BARRIER FABRIC 'DeWITT PRO 5' UNDER AND AROUND VALVE BOX AND SEAL ALL PIPE PENETRATIONS
I 6 mm BLACK POLYETHYLENE PLASTIC TAPE TO ALL INLET AND OUTLET PIPE



QUICK COUPLER VALVE SCALE: 1"=1'

- 1 PVC MAINLINE TO VALVES, SIZE AS NOTED
2 THRUST BLOCK, SEE DETAIL
3 COPPER LINE, SIZE AS NOTED
4 FINISH GROUND
5 3/4" GRAVEL BED, 4" THICK
6 2" BERMAID PRESSURE RELIEF VALVE MODEL 730-Q
7 PUMP
8 RUBBER ISOLATORS
9 4" CONCRETE SLAB ABOVE DOOR THRESHOLD.
10 6" CONCRETE SLAB, 3000 PSI W/ 6X8 W/WF
11 STEEL SUPPORTS WITH ISOLATORS BOLTED TO CONCRETE
12 PUMP PANEL, FURNAS MODEL ESP100, NEMA2 460 VOLT, 3 PHASE MODEL #87FSHF WITH VOLTAGE MONITOR AND 3 PLUG-IN RELAYS FOR EACH CONTROLLER AND STALL TIMER.
13 MERCOID TYPE OA PRESSURE CONTROL HIGH/LOW PRESSURE CUT-OFF SWITCH, WIRE TO PUMP PANEL.
14 ECCENTRIC REDUCER FLAT SIDE UP
15 100LB. PRESSURE GAUGE
16 TEE FITTING WITH 1" BRASS BALL VALVE IN VALVE BOX TO ALLOW DRAINING OF SYSTEM ON A 3/8" PEA GRAVEL BED OVER WEED CLOTH
17 SOLID BRICK BLOCK AT EACH CORNER
18 PUMP ENCLOSURE TO BE A TUFF SHED OR EQUIVALENT BOLTED ON CONCRETE SLAB WITH R-13 INSULATED WALLS AND R-19 INSULATION ON CEILING.
19 METAL STATIC VENT
20 COPPER TO DAYLIGHT OUTSIDE OF PUMP HOUSE
21 PUMP PANEL MOUNTED ON 3/4" CDX GRADE PLYWOOD MOUNTED ON INSULATED WALL OF PUMP HOUSE
22 BRASS BALL VALVE
23 3" WATERMAN PCW-150 SPRING LOADED CHECK VALVE
24 100LB. PRESSURE GAUGE
25 CONCENTRIC REDUCER
26 MERCOID SWITCH ON DISCHARGE SIDE OF PUMP
27 BRASS BALL VALVE
28 FLANGE
29 3/8" PEA GRAVEL, 4" DEEP (NO SOIL IN BOX)
30 WEED CLOTH ALL AROUND BOX, PIPE AND UNDER PEA GRAVEL. TAPE TO SEAL ALL GAPS AND PENETRATIONS. USE 3M HIGH GRADE PLASTIC TAPE.
31 CARSON VALVE BOX, 1419 SERIES WITH EXTENSIONS AS NEEDED & BOLT DOWN FLAT LID
32 DOOR TOWARDS STREET
33 7" LONG, 5/8" CONCRETE ANCHORS (DRILL)
34 4" LONG, 5/8" CONCRETE ANCHORS (DRILL)

PARKS DEPARTMENT Final Approval REVIEWED BY [Signature] 02/07/2017

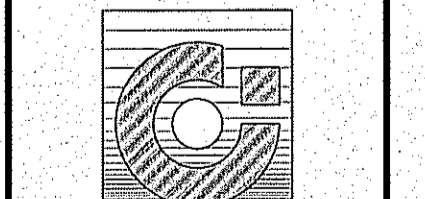


TIERRA DEL ESTE UNIT SEVENTY THREE PARK 14601 CIAMBRIELLO AVE.

ESPANOLA PARK 14601 CIAMBRIELLO AVE. BEING ALL OF LOT 1, BLOCK 462 TIERRA DEL ESTE UNIT 73 1322.49551 S.F. OR 3.042 ACRES



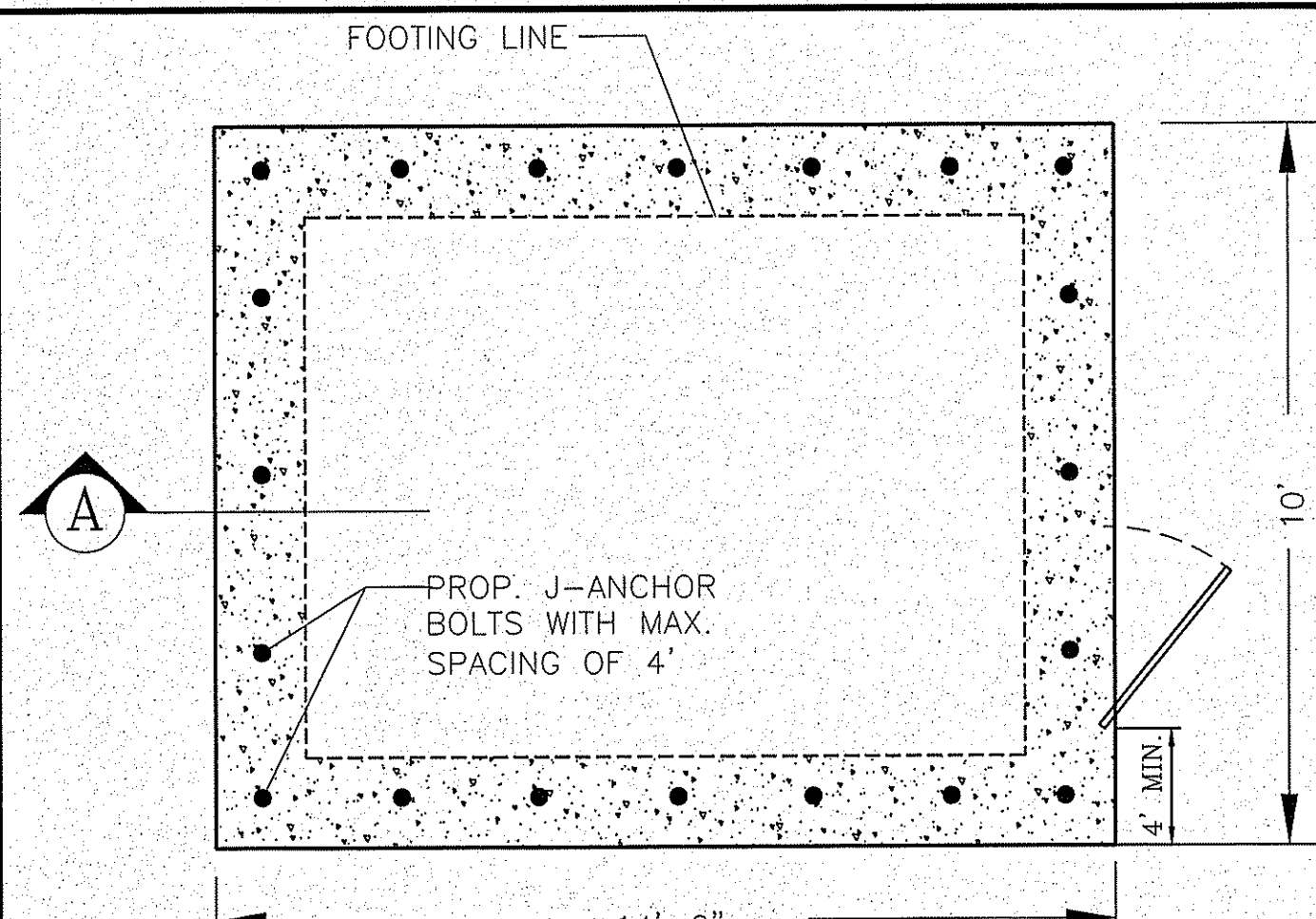
CONDE INC. ENGINEERING / PLANNING SURVEYING / GPS 6080 SURETY DR. STE 100 EL PASO, TEXAS 79905 PHONE: (915) 592-0283 FAX: (915) 592-0286



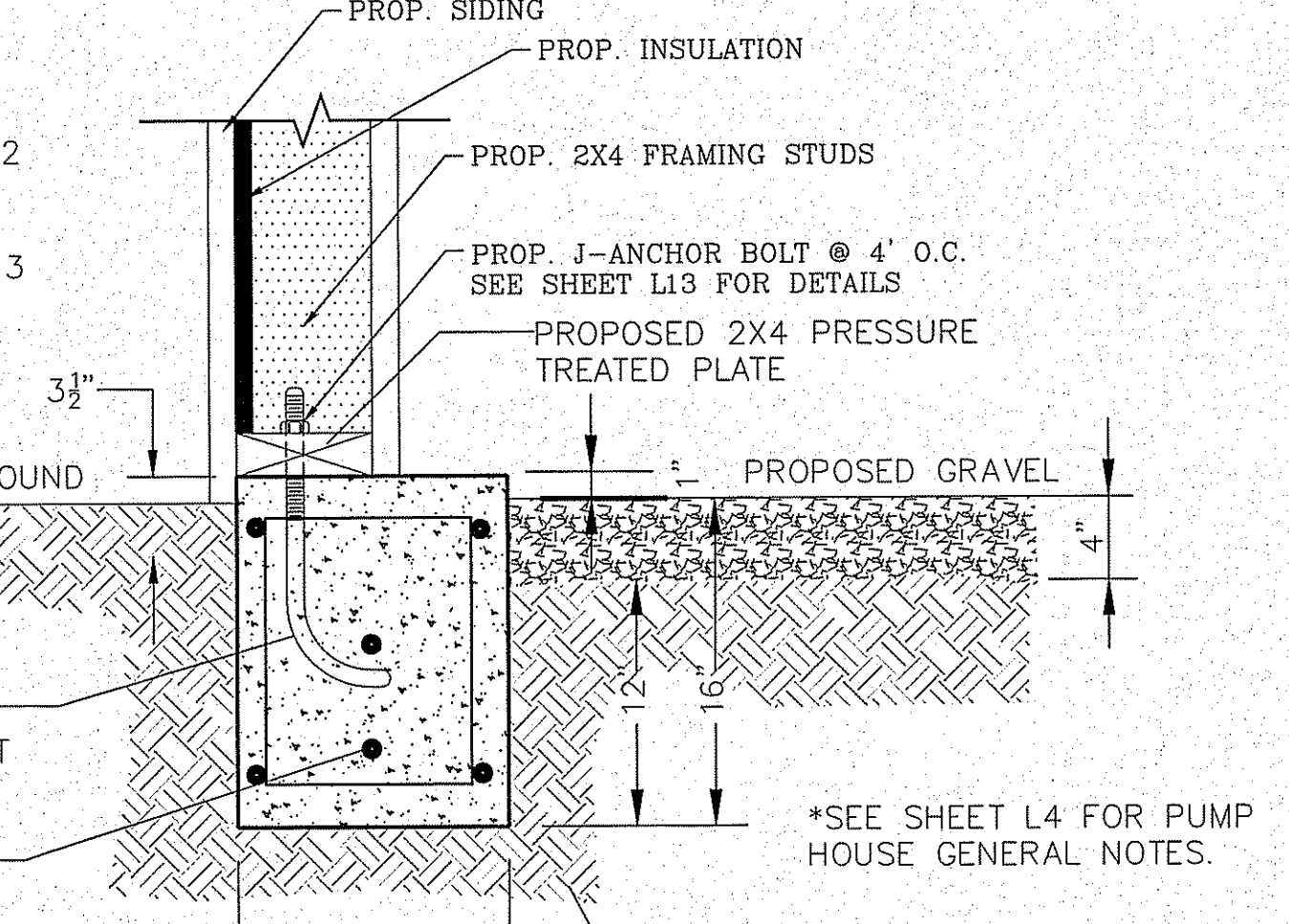
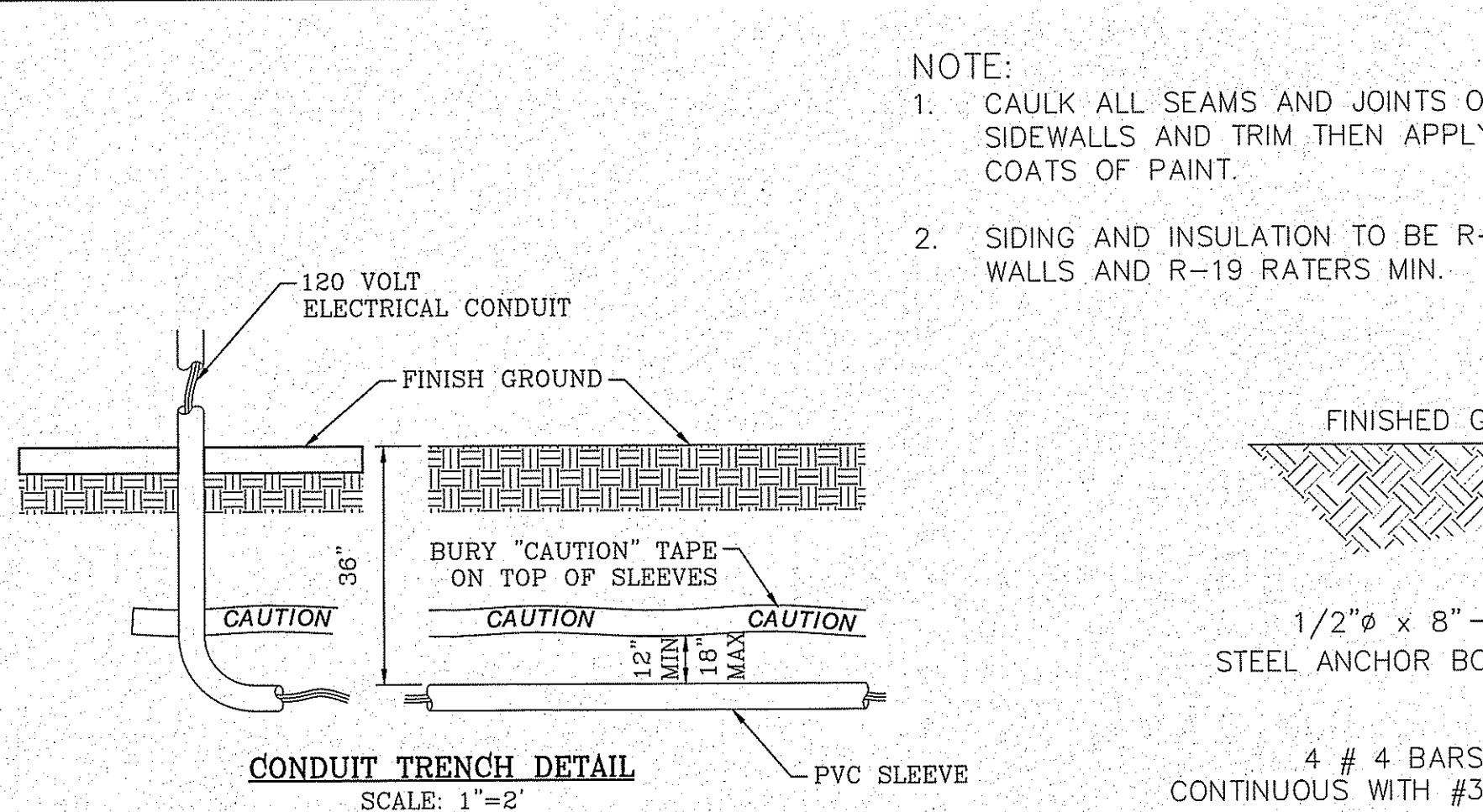
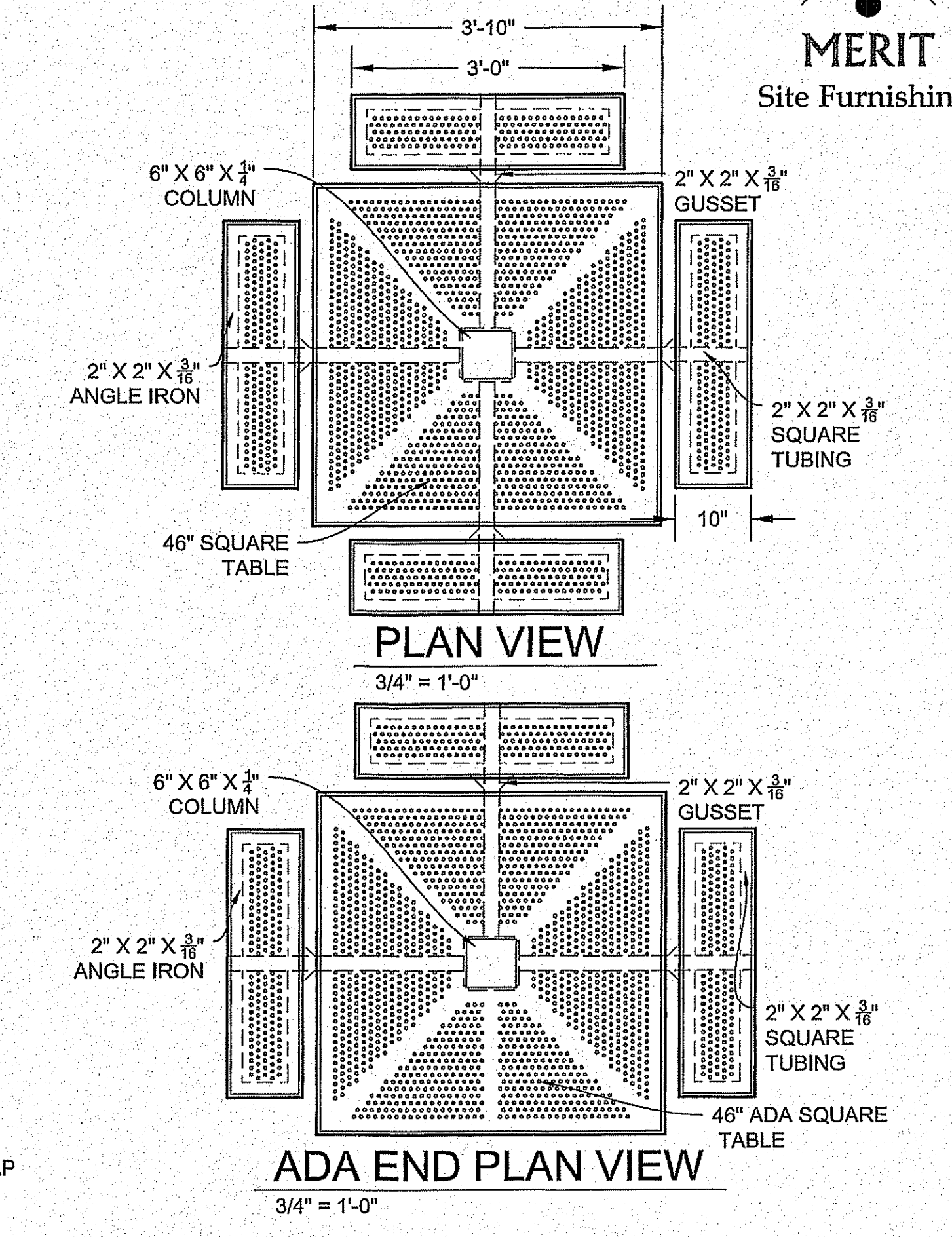
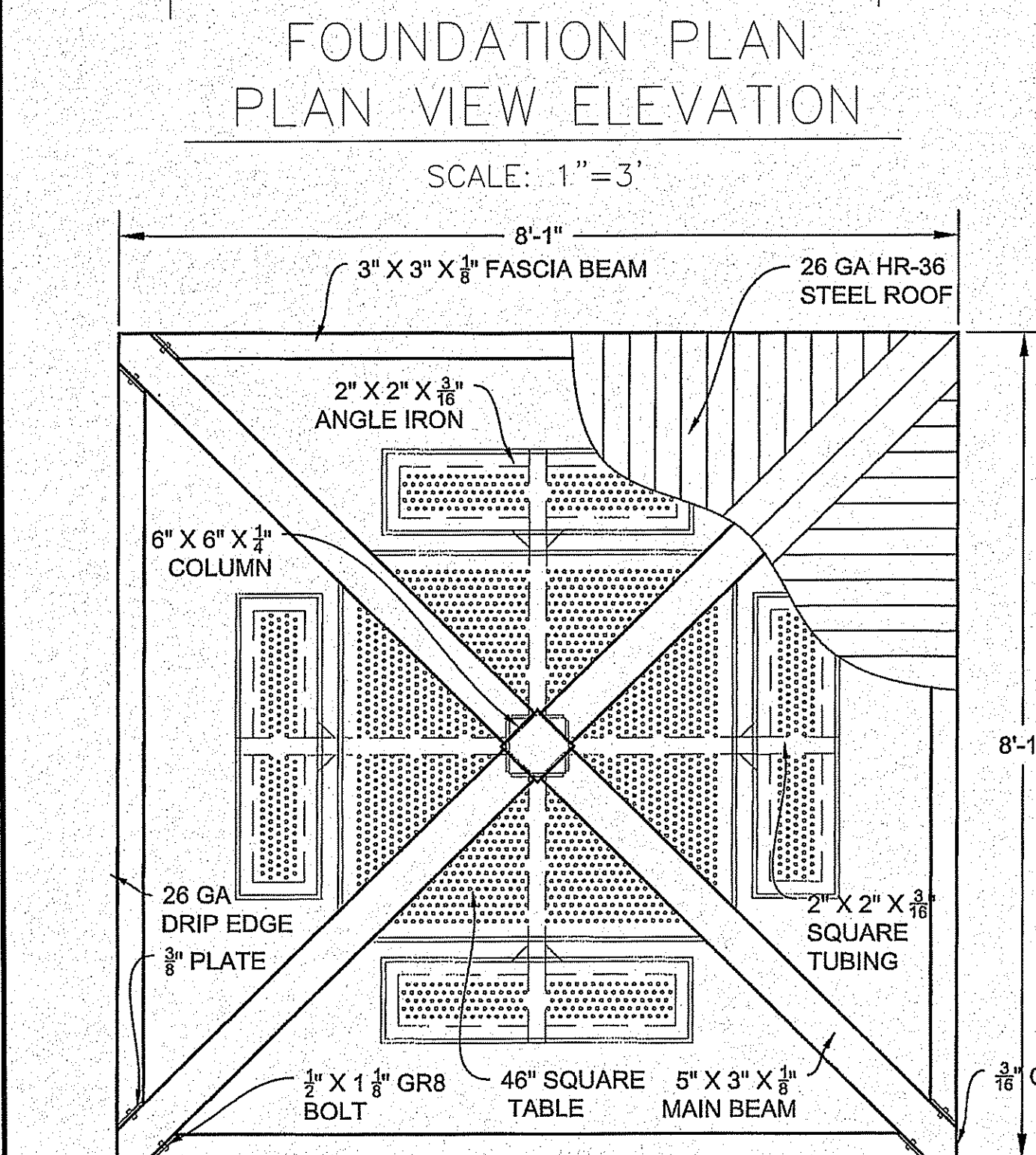
IRRIGATION DETAILS

SHT L4 OF L5

FILE LOCATION S:\LANDSCAPE\73 PARK DWG\DETAILS PLOTTED ON Monday, February 06, 2017 9:46:14 AM BY ESTEBAN JUAREZ



- STRUCTURAL NOTES:**
- 3" MIN. COVER FOR REINF. STEEL.
 - FOOTING TO BE 12" MIN. IN WIDTH.
 - BACKFILL MATERIALS SHALL BE PLACED AND COMPACTED IN 8" TO 12" LIFTS AND COMPACTED TO 95% COMPACTION AS PER ASTM D1557.
 - COMPRESSIVE STRENGTH OF CONCRETE SHALL BE 3,000 PSI MIN.
 - YIELD STRENGTH OF REINFORCEMENT SHALL BE 60,000 PSI.
 - MODULUS OF ELASTICITY OF STEEL = 29,000,000 PSI
 - REINFORCEMENT SHALL CONFORM TO THE REQUIREMENT OF ASTM A615.
 - ALLOWABLE TENSILE STRESS IN REINFORCEMENT = 24,000 PSI
 - EQUIVALENT FLUID PRESSURE OF SOIL = 45 PCF
 - ASSUME ALLOWABLE SOIL BEARING PRESSURE = 2,500 PSF MIN.



PENTAIR BERKELEY Pentair Electronic Catalog

Pump Performance Datasheet

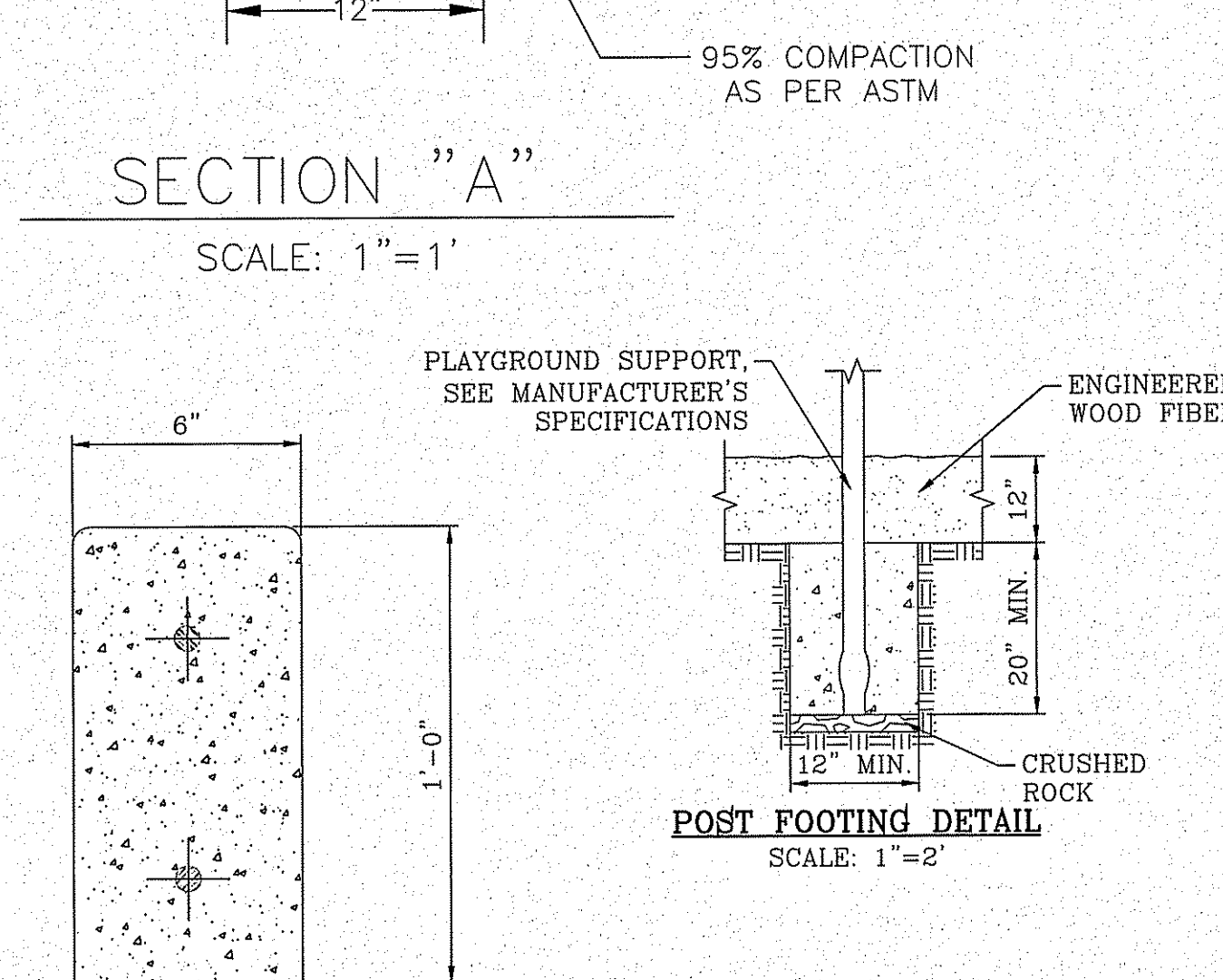
Customer	: Ranchos Real XVI	Quote number	: B2TRMS
Customer reference	: TDE 73	Size	: 1
Item number	: Default	Stages	: 1
Service	: 14601 Ciambriello Ave.	Based on curve number	: 9180
Quantity	: 1	Date last saved	: 08 Feb 2017 10:35 AM

Operating Conditions		Liquid	
Flow, rated	: 181.8 USGpm	Liquid type	: Water
Differential head / pressure, rated (requested)	: 73.81 ft	Additional liquid description	: 0.00 in
Differential head / pressure, rated (actual)	: 73.83 ft	Solids diameter, max	: 0.00 in
Suction pressure, rated / max	: 0.00 / 0.00 psig	Solids concentration, by volume	: 0.00 %
NPSH available, rated	: Ample	Temperature, max	: 68.00 deg F
Frequency	: 60 Hz	Fluid density, rated / max	: 1.000 / 1.000 SG
		Viscosity, rated	: 1.00 cP
		Vapor pressure, rated	: 0.00 psia

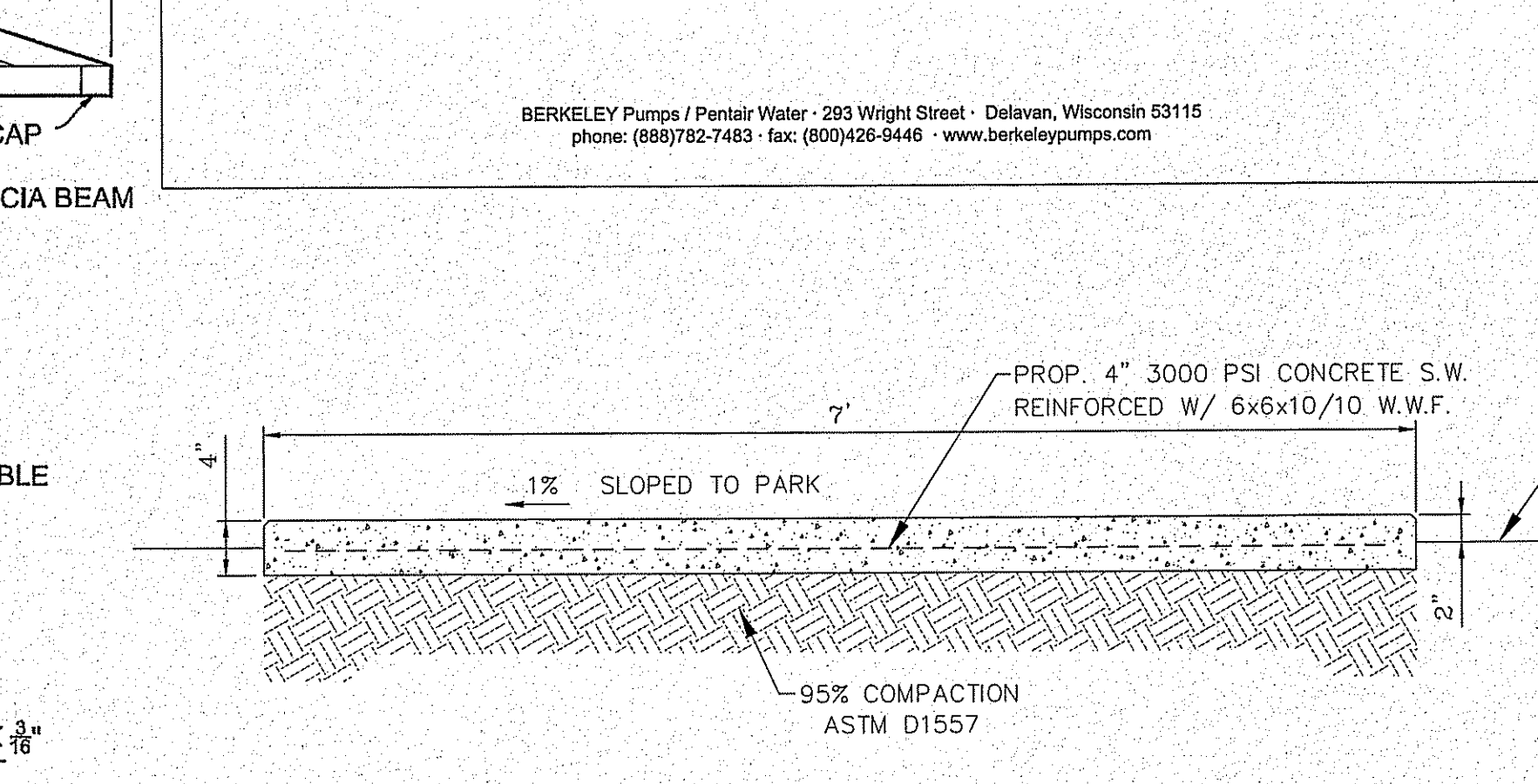
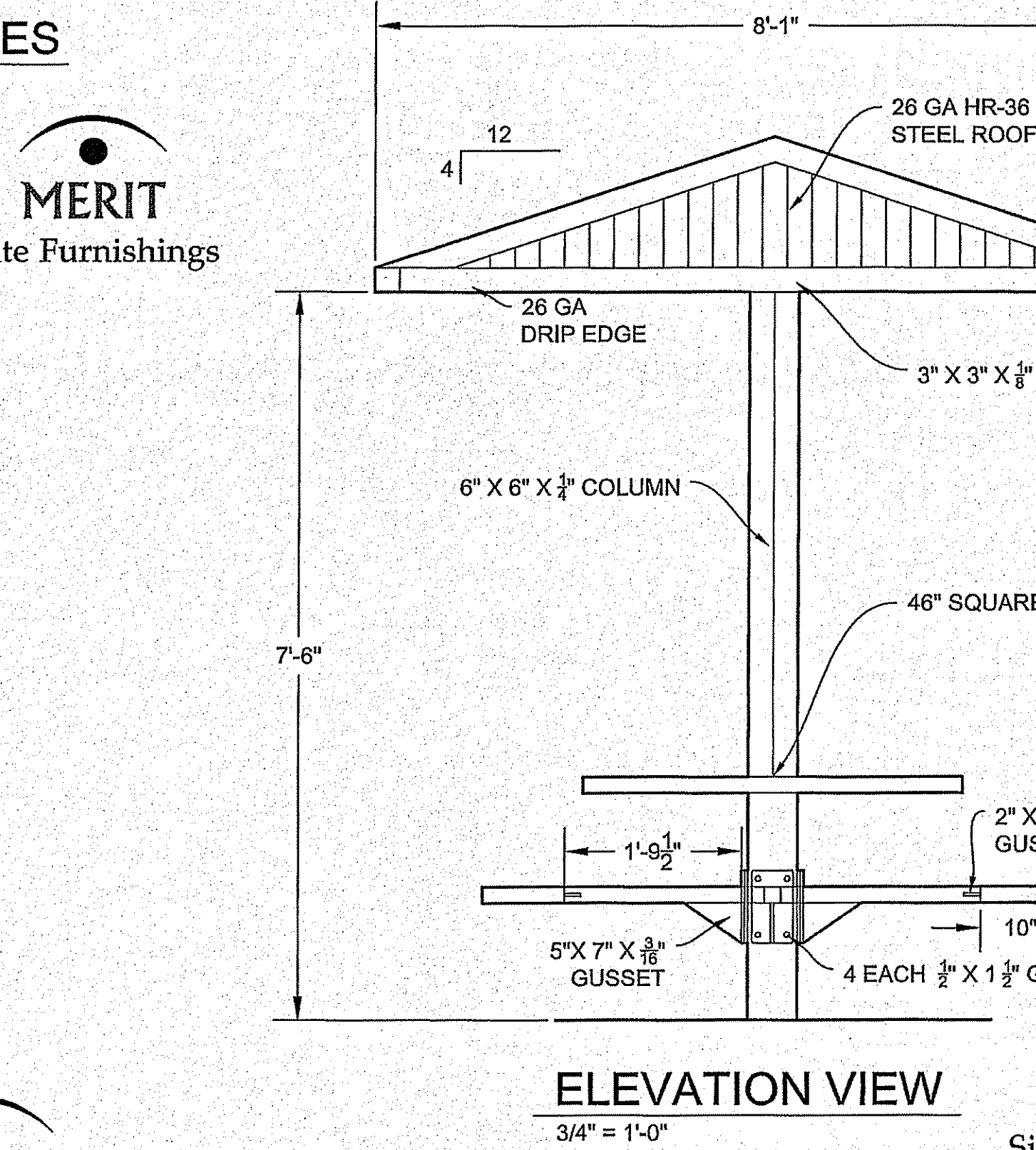
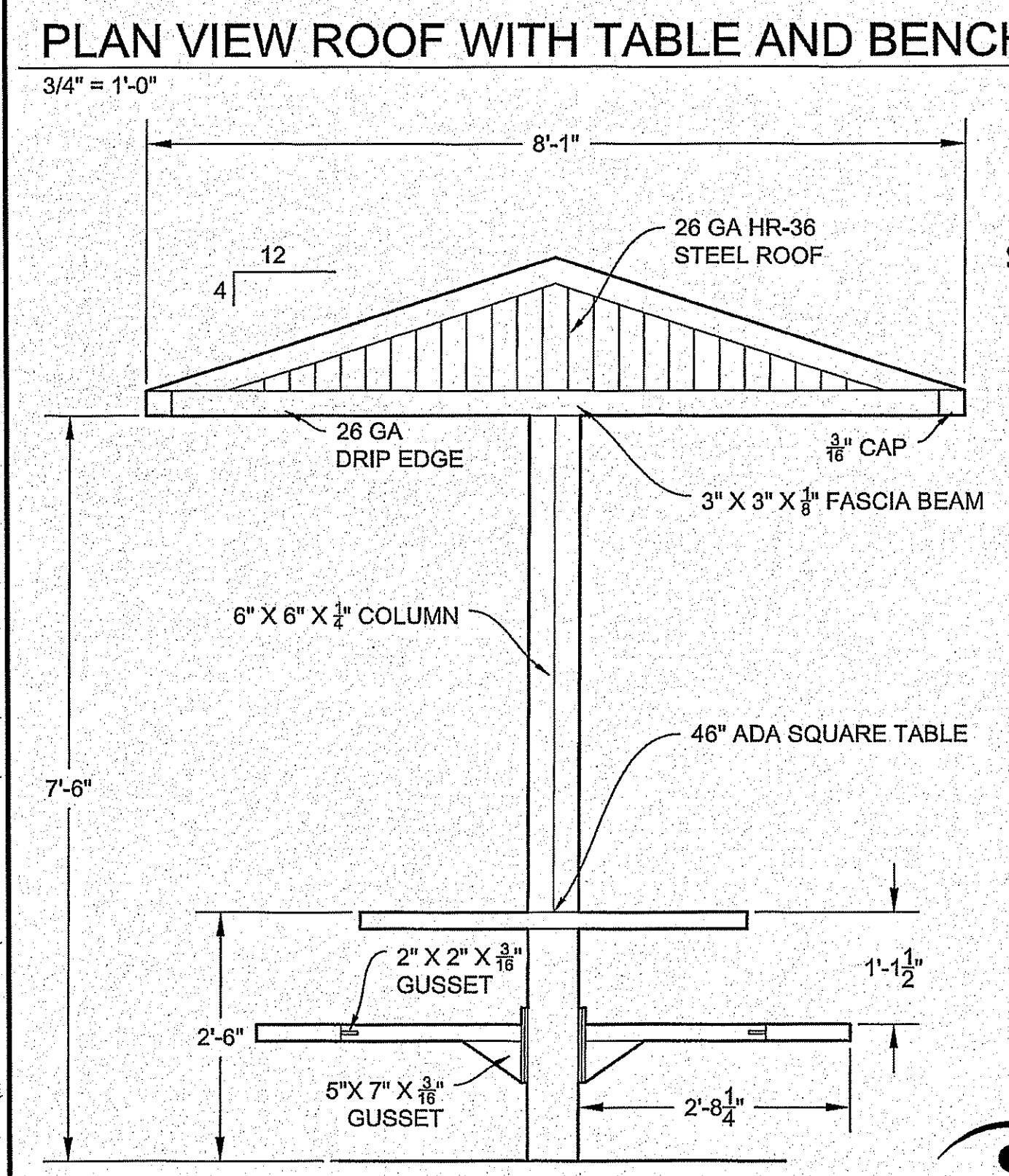
Performance		Material	
Speed, rated	: 2533 rpm	Material selected	: Not specified
Impeller diameter, rated	: 6.50 in		
Impeller diameter, maximum	: 6.50 in		
Impeller diameter, minimum	: 6.50 in		
Efficiency	: 73.09 %		
NPSH required / margin required	: 12.59 / 0.00 ft		
ηq (imp. eye flow) / S (imp. eye flow)	: 23 / 104 Metric units		
MCSF	: 73.04 USGpm		
Head, maximum, rated diameter	: 88.51 ft		
Head rise to shutoff	: 19.88 %		
Flow, best eff. point	: 159.8 USGpm		
Flow ratio, rated / BEP	: 113.79 %		
Diameter ratio (rated / max)	: 100.00 %		
Head ratio (rated dia / max dia)	: 100.00 %		
Cp/Cv/Ce/Cr (ANSI/HI 9.8.7-2010)	: 1.00 / 1.00 / 1.00 / 1.00		
Selection status	: Acceptable		

Pressure Data		Driver & Power Data (@Max density)	
Maximum working pressure	: 38.32 psig	Driver sizing specification	: Rated power
Maximum allowable working pressure	: 160.0 psig	Margin over specification	: 0.00 %
Maximum allowable suction pressure	: N/A	Service factor	: 1.00
Hydrostatic test pressure	: N/A	Power, hydraulic	: 3.39 hp
		Power, rated	: 4.64 hp
		Power, maximum, rated diameter	: 4.83 hp
		Minimum recommended motor rating	: 5.00 hp / 3.73 kW

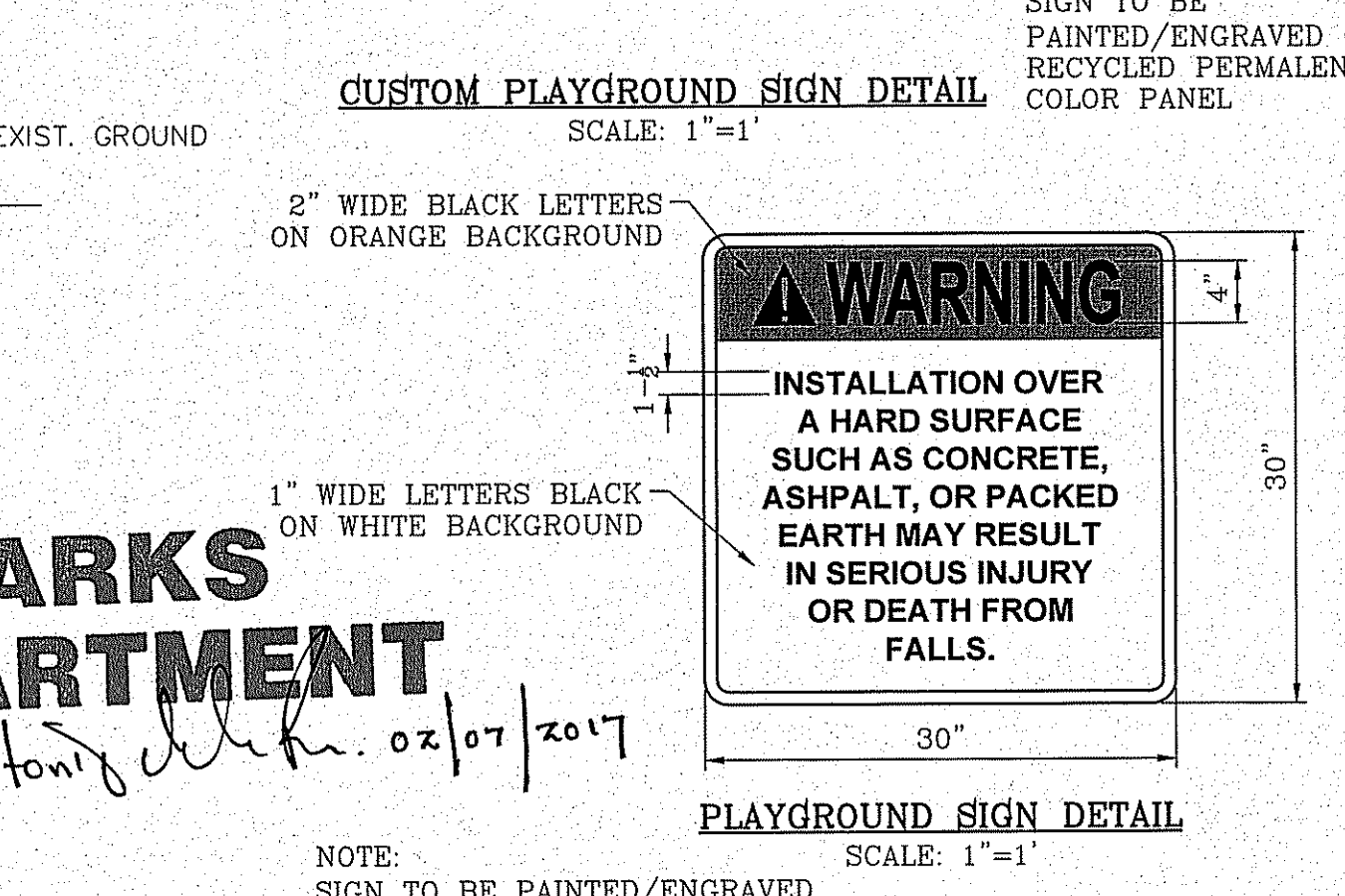
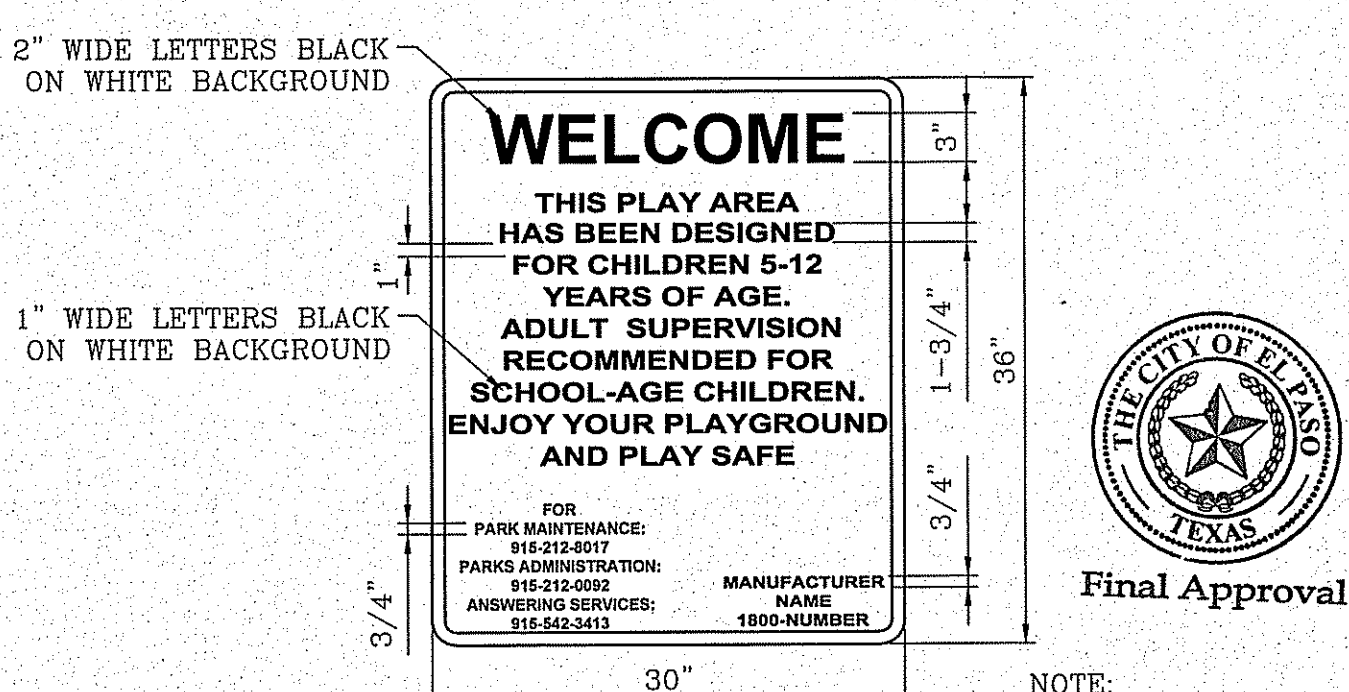
BERKELEY Pumps / Pentair Water - 293 Wright Street - Delavan, Wisconsin 53115
phone: (888)782-7483 - fax: (800)426-9446 - www.berkeleypumps.com



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



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



PARKS DEPARTMENT
REVIEWED BY: [Signature] 02/07/2017

DATE	REVISIONS	BY
06/16/16	PARKS REDLINES AS PER 4/7/16 COMMENTS	E.J.
10/5/16	PARKS REDLINES AS PER 9/23/16 COMMENTS	E.J.
1/19/17	PARKS REDLINES AS PER 1/21/16 COMMENTS	E.J.

ESPAÑOLA PARK
14601 CIAMBRIELLO AVE.
BEING ALL OF LOT 1, BLOCK 462
PARKS DEPARTMENT UNIT 73
132,495.51 SF. OR. 3.042 ACRES

SCALE
HORIZ: ---
VERT: ---
DATE: SEPT. 2014
DESIGN BY: RM/RR
INITIATED BY: R.R.
CHECKED BY: R.M.
JOB NO.:

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

SHEET TITLE
IRRIGATION DETAILS

SHT L5 OF L5

FILE LOCATION S:\LANDSCAPE\73 PARK DWG DETAILS PLOTTED ON Monday, February 06, 2017 9:46:38 AM BY ESTEBAN JUAREZ

121948
6"/8" RISE KICKPLATE
(K.P.1) QTY. (1)

QTY. POST/ARCH LENGTHS

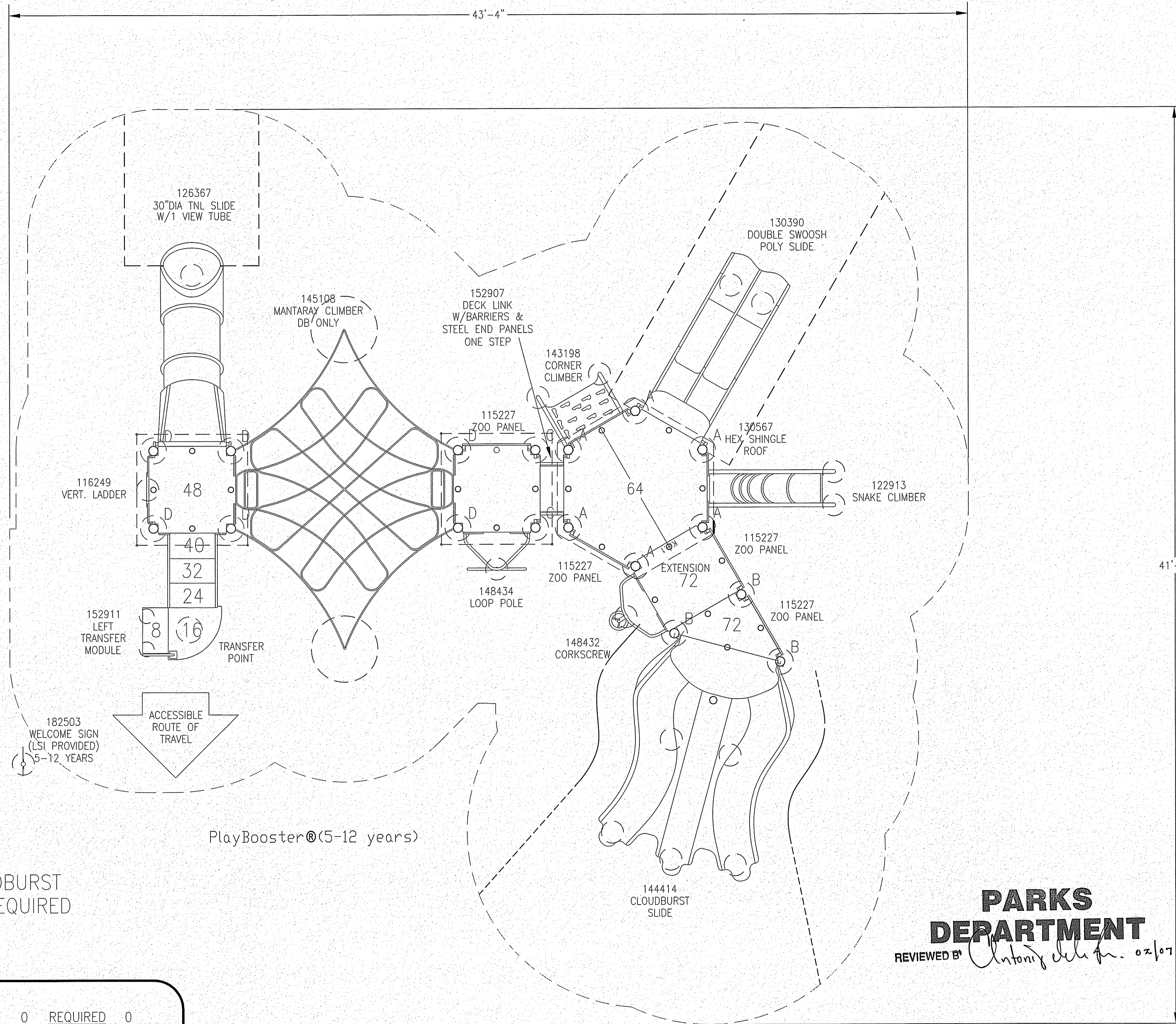
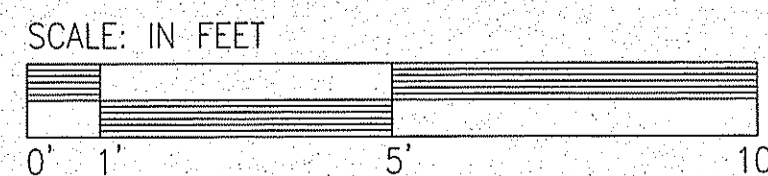
- 6 A 182" Alum Post For Roof DB
- 3 B 148" Alum Post DB
- 2 C 132" Steel Post DB
- 6 D 124" Steel Post DB

TOTAL SQUARE FOOTAGE
1301 SQ.FT.

MAX FALL HEIGHT
FOR THIS STRUCTURE
72"

THIS DRAWING HAS A
THUNDERHEAD AND/OR CLOUDBURST
ON IT, A FREIGHT QUOTE IS REQUIRED

TOTAL ELEVATED PLAY COMPONENTS	9		
TOTAL ELEVATED COMPONENTS ACCESSIBLE BY RAMP	0	REQUIRED	0
TOTAL ELEVATED COMPONENTS ACCESSIBLE BY TRANSFER	2	REQUIRED	5
TOTAL ACCESSIBLE GROUND LEVEL COMPONENTS SHOWN	0	REQUIRED	3
TOTAL DIFFERENT TYPES OF GROUND LEVEL COMPONENTS	0	REQUIRED	3



PARKS DEPARTMENT
REVIEWED BY *Anthony del...* 02/07/2017

landscape structures



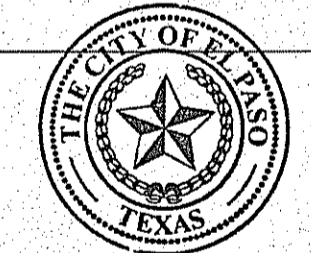
The play components identified on this plan are IPEMA certified. (Unless model number is preceded with *) The use and layout of these components conform to the requirements of ASTM F1487. To verify product certification, visit www.ipema.org

THIS PLAY AREA & PLAY EQUIPMENT IS DESIGNED FOR AGES 5-12 YEARS UNLESS OTHERWISE NOTED ON PLAN.

IT IS THE MANUFACTURERS OPINION THAT THIS PLAY AREA DOES NOT CONFORM TO THE A.D.A. ACCESSIBILITY STANDARDS

THIS CONCEPTUAL PLAN WAS BASED ON INFORMATION AVAILABLE TO US. PRIOR TO CONSTRUCTION, DETAILED SITE INFORMATION INCLUDING SITE DIMENSIONS, TOPOGRAPHY, EXISTING UTILITIES, SOIL CONDITIONS, AND DRAINAGE SOLUTIONS SHOULD BE OBTAINED, EVALUATED, & UTILIZED IN THE FINAL DESIGN. PLEASE VERIFY ALL DIMENSIONS OF PLAY AREA, SIZE, ORIENTATION, AND LOCATION OF ALL EXISTING UTILITIES, EQUIPMENT, AND SITE FURNISHINGS PRIOR TO ORDERING. SLIDES SHOULD NOT FACE THE HOT AFTERNOON SUN.

CHOOSE A PROTECTIVE SURFACING MATERIAL THAT HAS A CRITICAL HEIGHT VALUE TO MEET THE MAXIMUM FALL HEIGHT FOR THE EQUIPMENT (REF. ASTM F1487 STANDARD CONSUMER SAFETY PERFORMANCE SPECIFICATION FOR PLAYGROUND EQUIPMENT FOR PUBLIC USE, SECTION 8 CURRENT REVISION). THE SUBSURFACE MUST BE WELL DRAINED. IF THE SOIL DOES NOT DRAIN NATURALLY IT MUST BE TILED OR SLOPED 1/8" TO 1/4" PER FOOT TO A STORM SEWER OR A "FRENCH DRAIN".



Final Approval

DESIGNED BY:

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LANDSCAPE STRUCTURES, INC.
601 7th STREET SOUTH - P.O. BOX 198
DELANO, MINNESOTA 55328
PH: 1-800-328-0035 FAX: 1-763-972-6091

Date	Previous Drawing #	Initials
------	--------------------	----------

Design #1290

Landscape Structures

SYSTEM TYPE:
Playbooster

DRAWING #:
1290

