

2717 E. YANDELL ST., EL PASO, TEXAS 79903 (915) 562-0002

GLENWOOD CIRCLE PLACE UNIT 2 SUBDIVISION

BEING A PORTION OF LOT 32, BLOCK 5, ALAMEDA ACRES CITY OF EL PASO, TEXAS COUNTY OF EL PASO, TEXAS CONTAINING 0.972 ACRES

THE STATE OF TEXAS COUNTY OF EL PASO

I ANVIA, LLC, PROPERTY OWNER OF THIS LAND, HEREBY PRESENT THIS PLAT AND DEDICATE TO THE USE OF THE PUBLIC THE STREET RIGHT-OF-WAY, UTILITY EASEMENTS, AS HEREON LAID DOWN AND DESIGNATED, INCLUDING EASEMENTS FOR OVERHANG

05-23-18 DATE MARIO ORNELAS

ACKNOWLEDGEMENT

THE STATE OF TEXAS COUNTY OF EL PASO

THIS INSTRUMENT WAS ACKNOWLEDGED BEFORE ME THIS MARIO ORNELAS

NOTARY PUBLIC IN AND FOR EL PASO, COUNTY, TEXAS

Notary Public, State of Te No. 125398915 My Commission Expires

MY COMMISSION EXPIRES:

Desember 20, 2021

CITY PLAN COMMISSION

THIS SUBDIVISION IS HEREBY APPROVED AS TO THE PLATTING AND AS TO THE CONDITIONS OF THE DEDICATION IN ACCORDANCE WITH CHAPTER 212 OF THE LOCAL GOVERNMENT CODE OF TEXAS THIS 26TH DAY OF

FILING

filed and recorded in the office of the county clerk of el paso county, texas, this 24^{+++} day of MW, $_{20}$ $_{18}$, a.d., inst. no. $_{20}$ $_{8}$ $_{6}$ $_{18}$ $_$

THIS PLAT REPRESENTS A SURVEY MADE ON THE GROUND UNDER MY SUPERVISION AND IN IS COMPLIANCE WITH THE CURRENT TEXAS BOARD OF PROFESSIONAL LAND SURVEYING PROFESSIONAL AND TECHNICAL STANDARDS

ermu / Vara 40 01.23.18 FERMIN DORADO, R.P.L.S., No. 3190

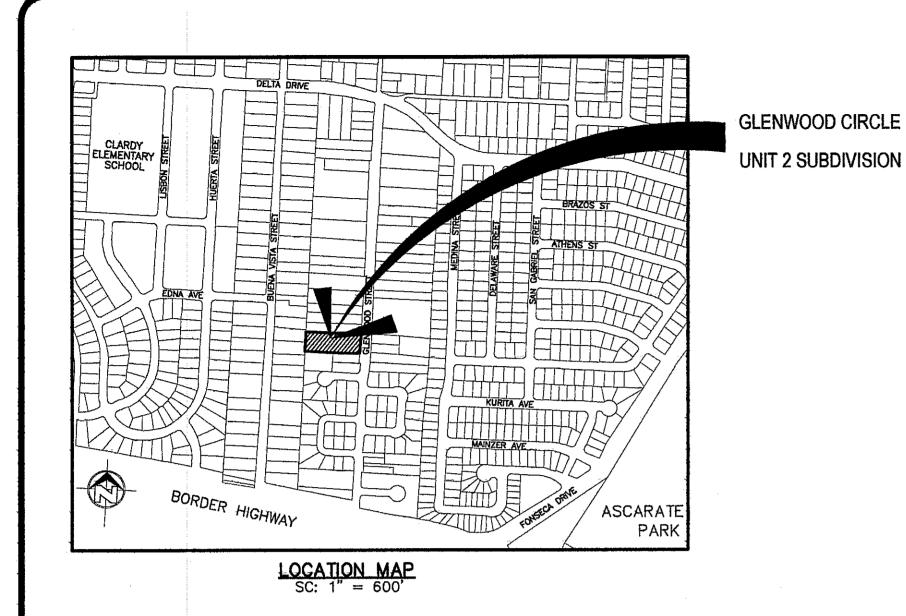
SUBDIVISION IMPROVEMENT PLANS PREPARED BY AND UNDER THE SUPERVISION OF FERMIN DORADO, REGISTERED PROFESSIONAL ENGINEER NO. 37512





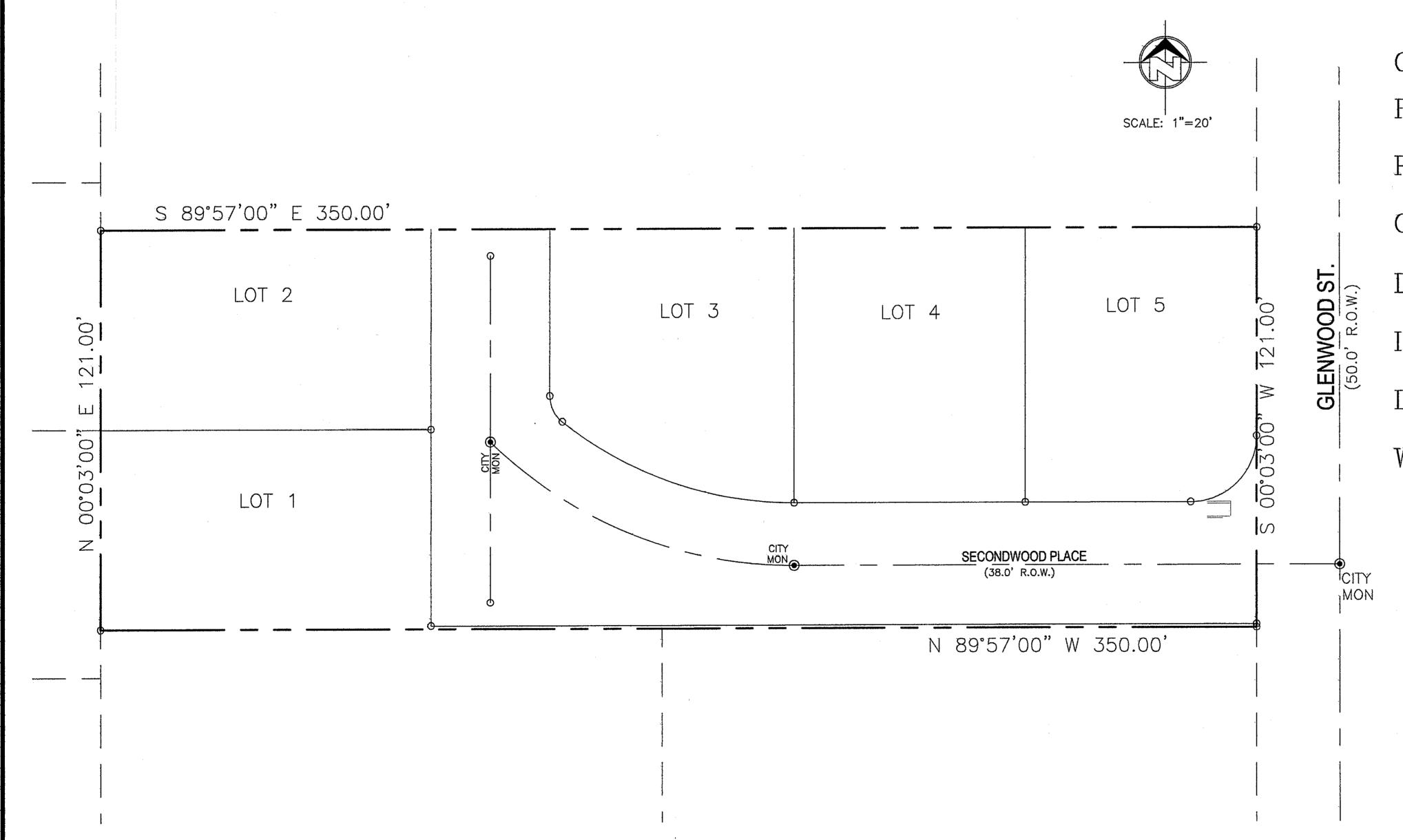
02-23-17 SHEET $01 - 13 - 17 \mid \frac{2}{} \mid \frac{0f}{} \mid \frac{7}{} \mid$

DATE OF PREPARTION NOVEMBER 09, 2016



GLENWOOD CIRCLE PLACE UNIT 2 SUBDIVISION

INDEX OF SHEETS

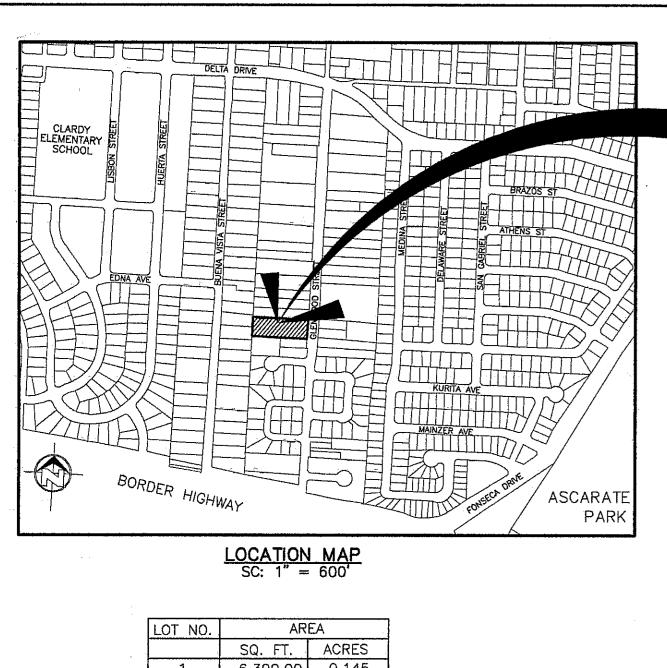


COVER SHEET
FINAL PLAT
PROFILE PLAN
GRADING PLAN
DETAILS
ILLUMINATION PLAN
DRAINAGE PLAN & S.W.P.P.P
WATER & SANITARY SEWER PLAN 8-11
CITY DEVELOPMENT DEPARTMENT
Reviewed For Conformance For Condition Related To: Sidewalks
Wheelchele Rampe On Size Pending of Storm Watern On Size Pending Layers.
Contractor Must Call 24 Hours Prior To Construction for Inspections (Salicio Must Call 24 Hours Prior To Construction for Inspections (Salicio Must Call 24 Hours Prior To Construction for Inspections (Salicio Must Call 24 Hours Prior To Construction for Inspections (Salicio Must Call 24 Hours Prior To Construction for Inspections (Salicio Must Call 24 Hours Prior To Construction for Inspections (Salicio Must Call 24 Hours Prior To Construction for Inspections (Salicio Must Call 24 Hours Prior To Construction for Inspections (Salicio Must Call 24 Hours Prior To Construction for Inspections (Salicio Must Call 24 Hours Prior To Construction for Inspections (Salicio Must Call 24 Hours Prior To Construction for Inspections (Salicio Must Call 24 Hours Prior To Construction for Inspections (Salicio Must Call 24 Hours Prior To Construction for Inspections (Salicio Must Call 24 Hours Prior To Construction for Inspections (Salicio Must Call 24 Hours Prior To Construction for Inspections (Salicio Must Call 24 Hours Prior To Construction for Inspections (Salicio Must Call 24 Hours Prior To Construction for Inspections (Salicio Must Call 24 Hours Prior To Construction for Inspections (Salicio Must Call 24 Hours Prior To Construction for Inspections (Salicio Must Call 24 Hours Prior To Construction for Inspections (Salicio Must Call 24 Hours Prior To Construction for Inspections (Salicio Must Call 24 Hours Prior To Construction for Inspections (Salicio Must Call 24 Hours Prior To Construction for Inspections (Salicio Must Call 24 Hours Prior To Construction for Inspections (Salicio Must Call 24 Hours Prior To Construction for Inspection for Inspect
FERM DORAGO 37512 GISTER
ENGINEERING, INC.

ENGINEERS

SURVEYORS PLANNERS

2717 E. YANDELL EL PASO, TEXAS 79903 (915)562-0002



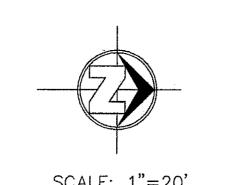
GLENWOOD CIRCLE PLACE **UNIT 2 SUBDIVISION**

ERNESTO & AURORA MORALES LOT 51, BLOCK 1 CLARDY SUBDIVISION NO 1

60.50

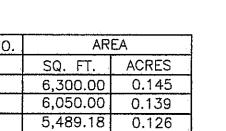
MARIO PORRAS LOT 50, BLOCK 1 CLARDY SUBDIVISION NO 1

N 00°03'00" E 121.00'



SCALE: 1"=20'





5,724.46 0.131

4 5,810.00 0.133

REASON

THE REASON FOR THIS REPLAT IS TO DIVIDE EXISTING LOT AND CREATE 5 DUPLEXES DWELLING LOTS.

LINE	BEARING	LENGTH
L1	S 00'03'00" E	01.00'

_							
	CURVE	DELTA	CHD BEARING	TANGENT	RADIUS	ARC LEN	CHD LEN
	C1	89*54'00"	S 45'00'00" W	19.97	20.00	31.38	28.26
ſ	C2	38'49'17"	N 70'38'22" W	39.47	112.00	75.89	74.44
ſ	C3	51'16'43"	N 25'35'22" W	04.80	10.00	08.95	08.65
ſ	C4	44*35'30"	N 67'45'15" W	53.72	131.00	101.95	99.40

NOTES

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

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

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

THIS PROPERTY LIES IN ZONE "C", "AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL FLOOD" PANEL NO. 480214-0040 B, MAP REVISED ON OCTOBER 15, 1982.

WATER SUPPLY AND SEWER SEWAGE DISPOSAL IS PROVIDED BY EL PASO WATER UTILITIES.

ROCKWALLS OR STRUCTURES THAT HINDER OR BLOCK ACCESS TO THE PRIVATE ACCESS AND UTILITY EASEMENT WILL BE PROHIBITED.

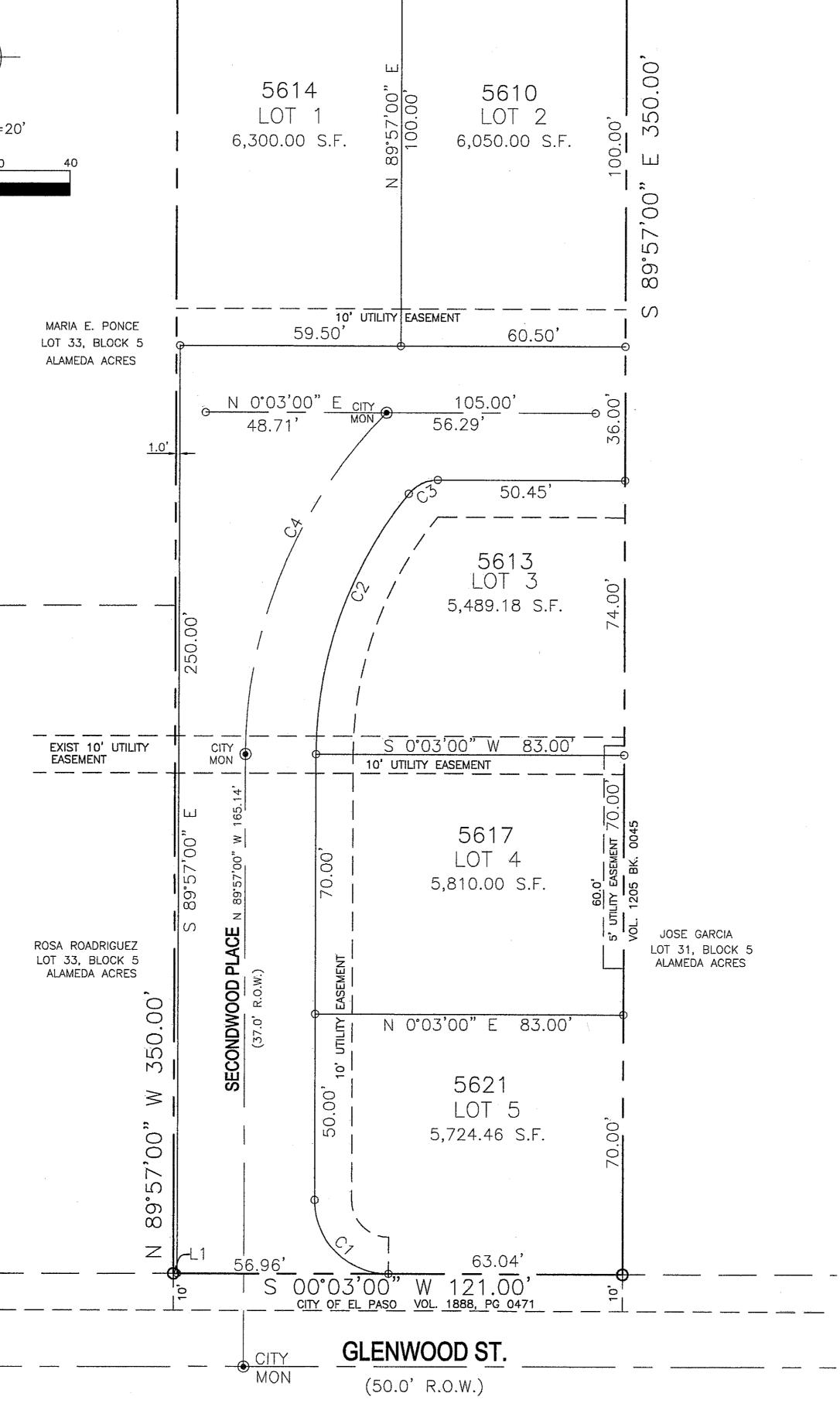
U.S. POSTAL SERVICE DELIVERY WILL BE PROVIDED THROUGH NEIGHBORHOOD DELIVERY AND COLLECTION BOX UNITS TO THIS SUBDIVISION

VEHICULAR ACCESS TO LOT 5 ABUTTING GLENWOOD STREET & SECONDWOOD PLACE SHALL BE FROM OTHER DEDICATED STREETS, THE INSTRUMENT ASSURING RELEASE OF ACCESS IS FILED IN THE OFFICE OF THE COUNTY CLERK, DEED AND RECORD SECTION.

INSTRUMENT No._____ DATE;._

THE 1 FOOT ON THE SOUTH PROPERTY LINE ALONG SECONDWOOD PLACE OF GLENWOOD CIRCLE PLACE UNIT 2 IS PART OF LOT 1.

DORADO ENGINEERING, INC. ENGINEERS SURVEYORS PLANNERS 2717 E. YANDELL ST., EL PASO, TEXAS 79903 (915) 562-0002



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BEING A PORTION OF LOT 32, BLOCK 5, ALAMEDA ACRES CITY OF EL PASO, TEXAS COUNTY OF EL PASO, TEXAS CONTAINING 0.972 ACRES

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THIS INSTRUMENT WAS ACKNOWLEDGED BEFORE ME THIS				
THE STATE OF TEXAS COUNTY OF EL PASO THIS INSTRUMENT WAS ACKNOWLEDGED BEFORE ME THIS		DATE		
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NOTARY PUBLIC IN AND FOR EL PASO, COUNTY, TEXAS MY COMMISSION EXPIRES: CITY PLAN COMMISSION CITY PLAN COMMISSION THIS SUBDIVISION IS HEREBY APPROVED AS TO THE PLATTING AND AS TO THE CONDITIONS OF THE DEDICATION N ACCORDANCE WITH CHAPTER 212 OF THE LOCAL GOVERNMENT CODE OF TEXAS THIS	THE STATE OF TEXAS COUNTY OF EL PASO			
NY COMMISSION EXPIRES: CITY PLAN COMMISSION CITY PLAN AS TO THE CONDITIONS OF THE DEDICATION N ACCORDANCE WITH CHAPTER 212 OF THE LOCAL GOVERNMENT CODE OF TEXAS THIS	THIS INSTRUMENT WAS ACKN	OWLEDGED BEFORE ME THIS	DAY OF	,2017 BY
NY COMMISSION EXPIRES: CITY PLAN COMMISSION CITY PLAN AS TO THE CONDITIONS OF THE DEDICATION N ACCORDANCE WITH CHAPTER 212 OF THE LOCAL GOVERNMENT CODE OF TEXAS THIS	شد هفت محدد شده فديده فديده محدد محدد المحدد به واحد حب سب مست نسبت مستد موقد م	·		
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N ACCORDANCE WITH CHAPTER 212 OF THE LOCAL GOVERNMENT CODE OF TEXAS THIS DAY OF, 2017 A.D EXECUTIVE SECRETARY CHAIRPERSON FILING FILING FILED AND RECORDED IN THE OFFICE OF THE COUNTY CLERK OF EL PASO COUNTY, TEXAS, THIS DAY OF, 20, A.D., INST. NO COUNTY CLERK BY DEPUTY HIS PLAT REPRESENTS A SURVEY MADE ON THE GROUND UNDER MY SUPERVISION AND IN IS COMPLIANCE WITH				
EXECUTIVE SECRETARY CHAIRPERSON FILING FILING FILED AND RECORDED IN THE OFFICE OF THE COUNTY CLERK OF EL PASO COUNTY, TEXAS, THIS DAY OF, 20, A.D., INST. NO COUNTY CLERK BY DEPUTY HIS PLAT REPRESENTS A SURVEY MADE ON THE GROUND UNDER MY SUPERVISION AND IN IS COMPLIANCE WITH	IN ACCORDANCE WITH CHAPTE	R 212 OF THE LOCAL GOVERNMEN		
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FILED AND RECORDED IN THE OFFICE OF THE COUNTY CLERK OF EL PASO COUNTY, TEXAS, THIS	PLANNING AND INSPECTIONS	DIRECTOR		
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FERMIN DORADO, R.P.L.S., No. 3190

SUBDIVISION IMPROVEMENT PLANS PREPARED BY AND UNDER THE SUPERVISION OF FERMIN DORADO, REGISTERED PROFESSIONAL ENGINEER NO. 37512

FERMIN DORADO, P.E.

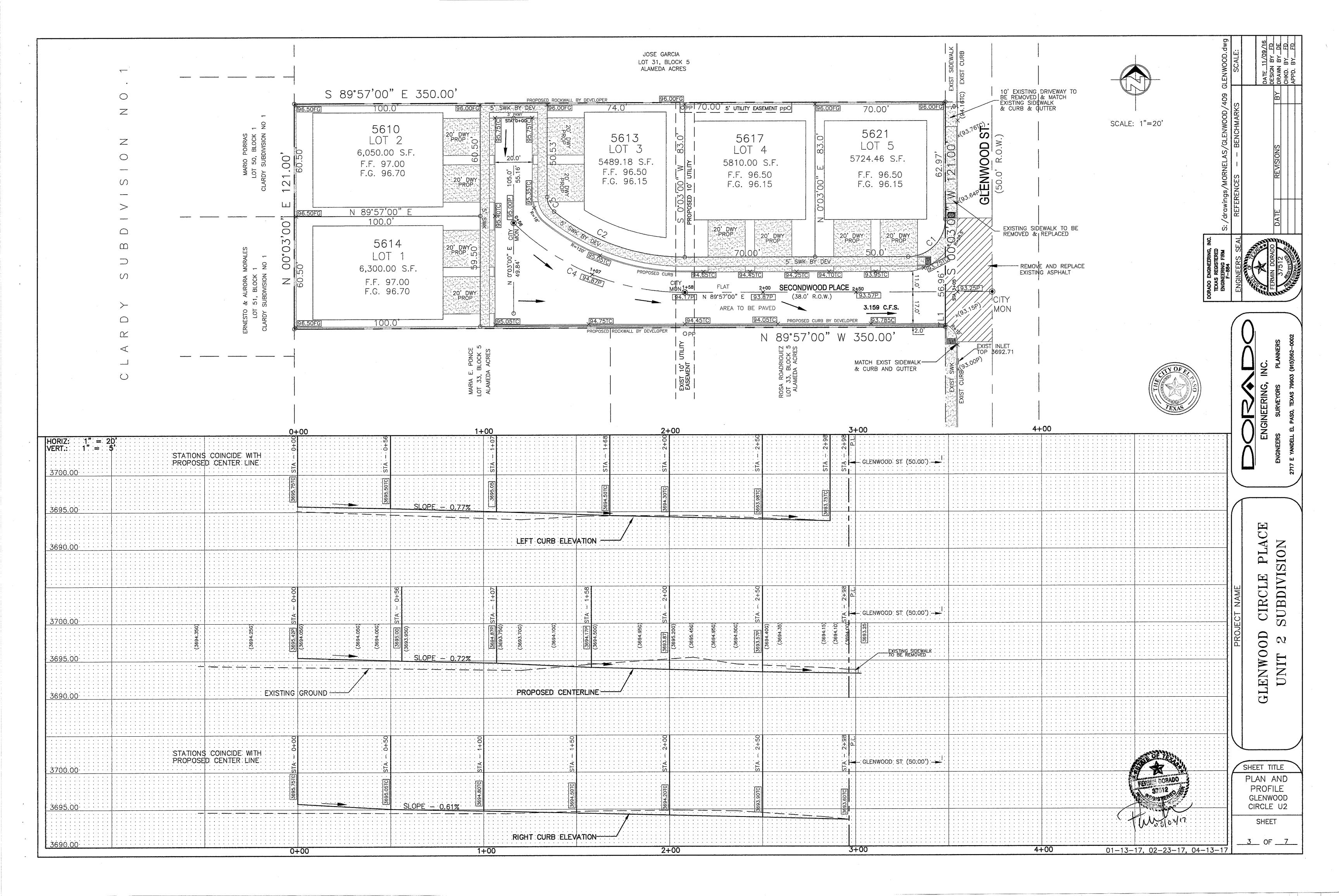


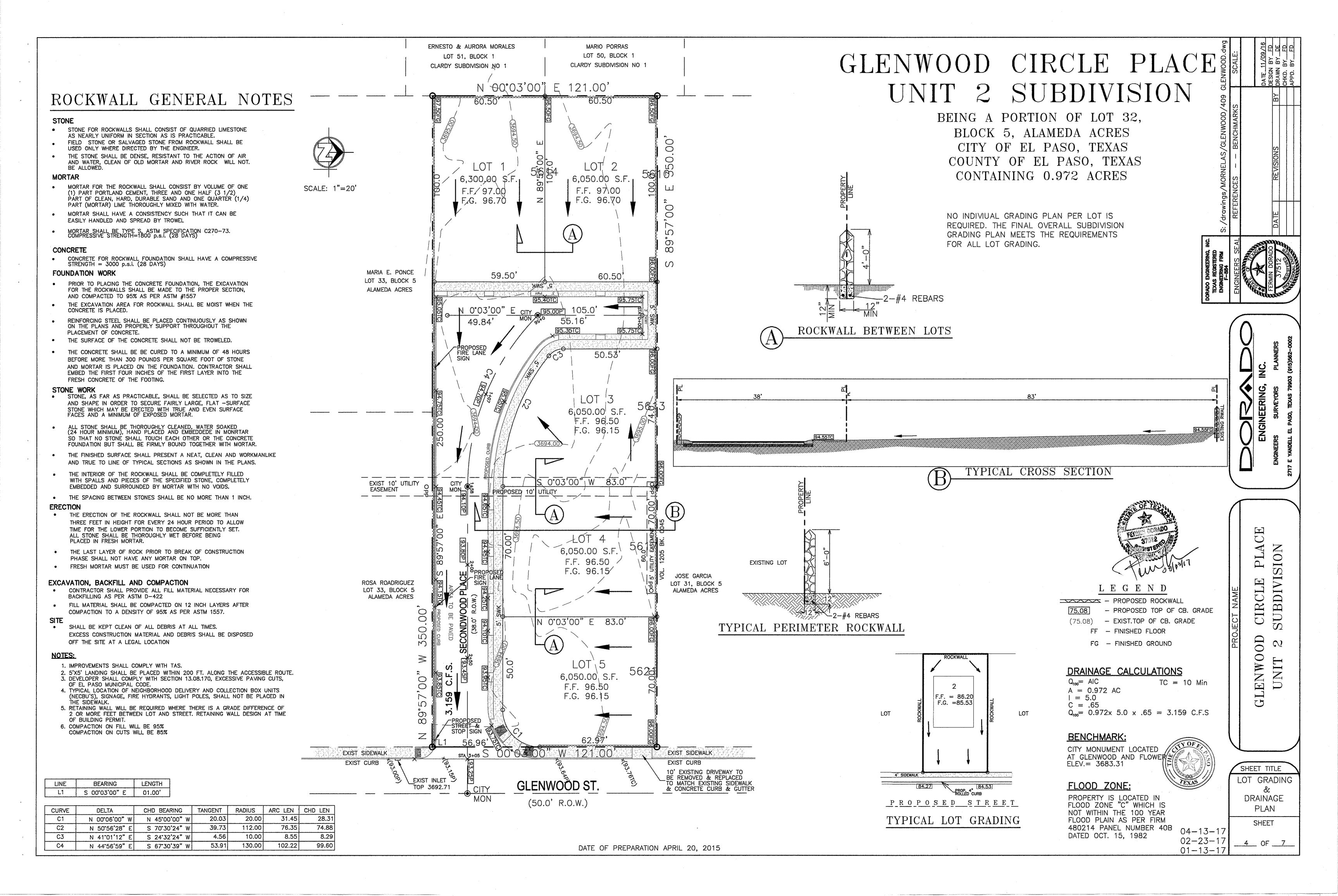


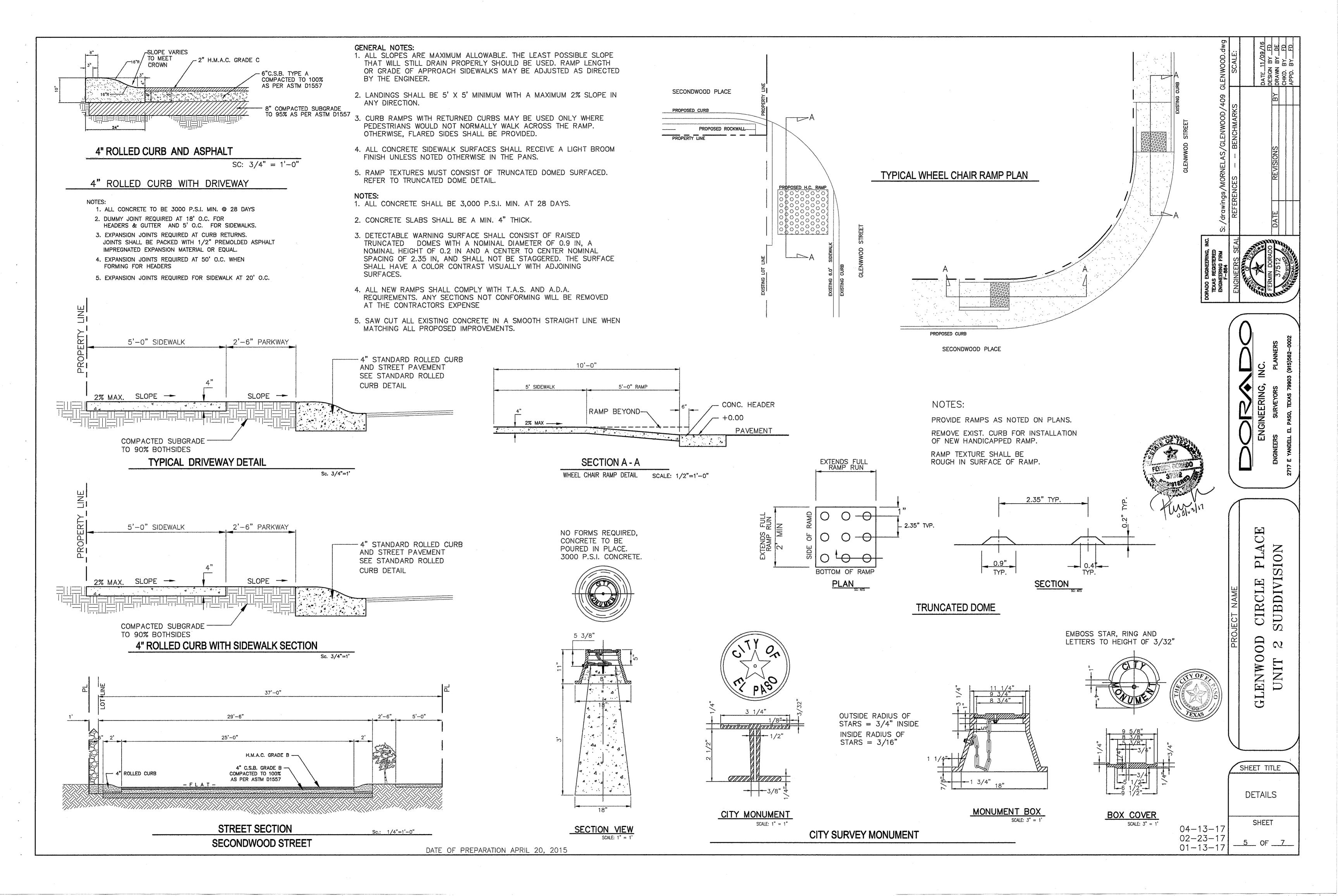


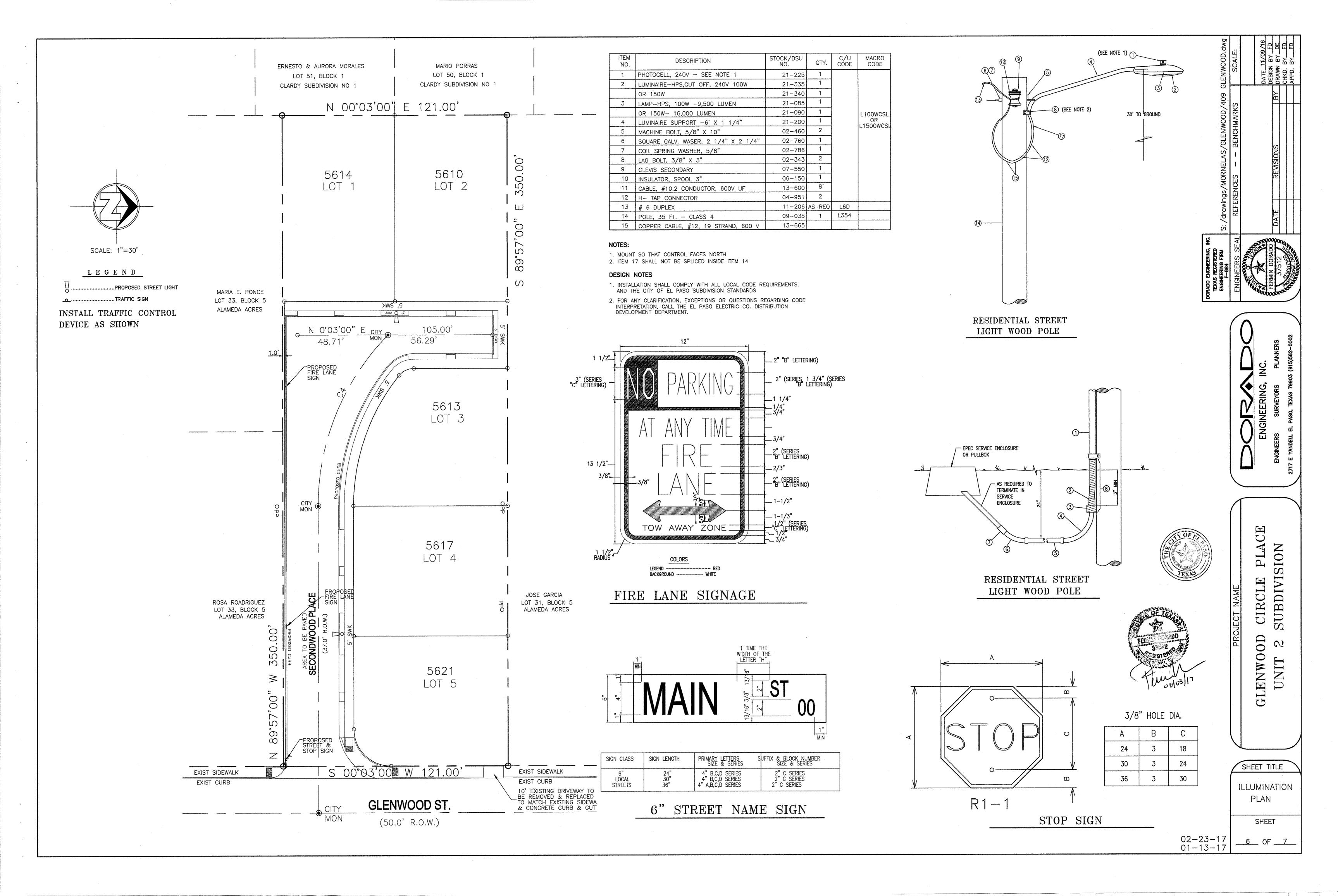
02-23-17 SHEET

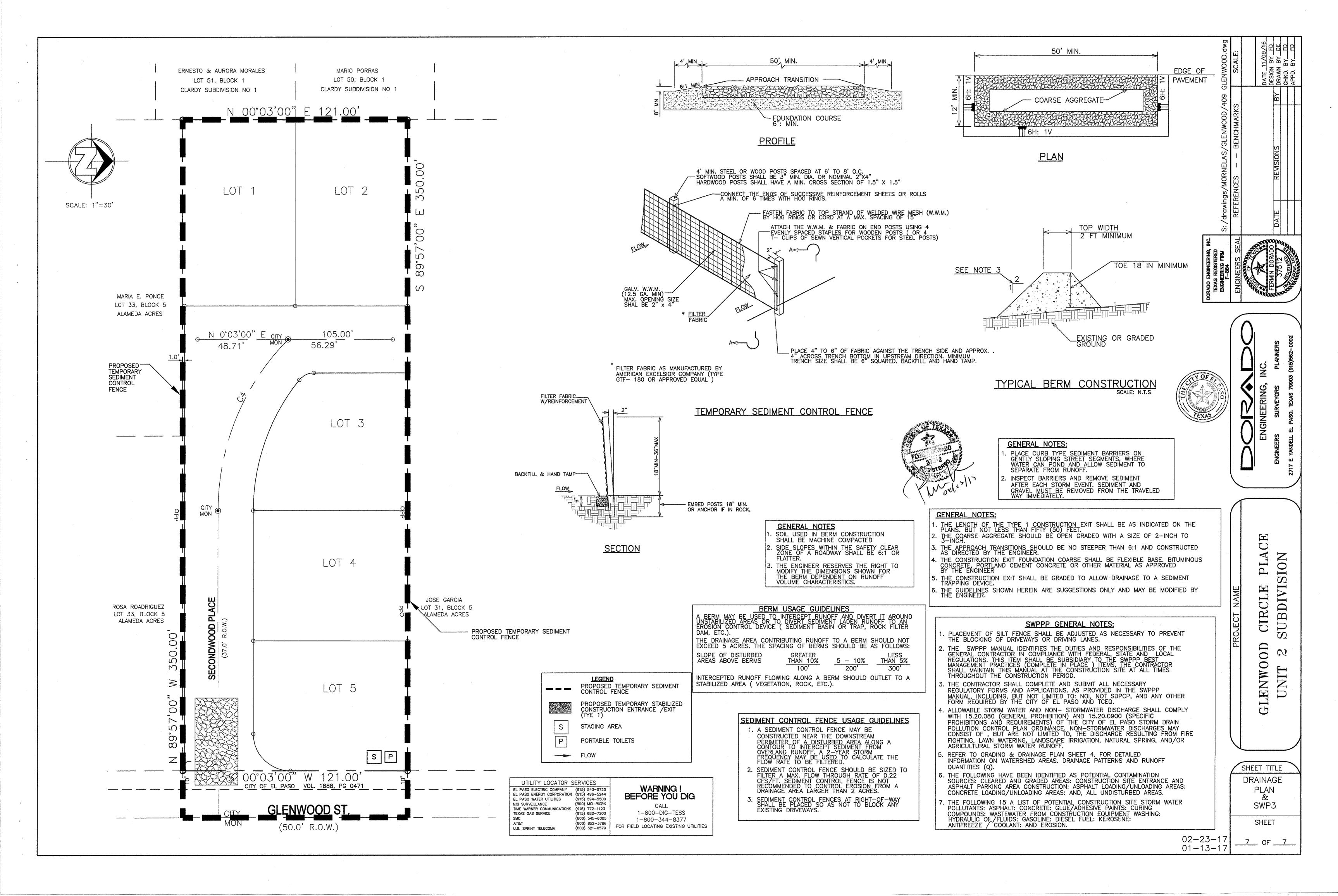
DATE OF PREPARTION NOVEMBER 09, 2016

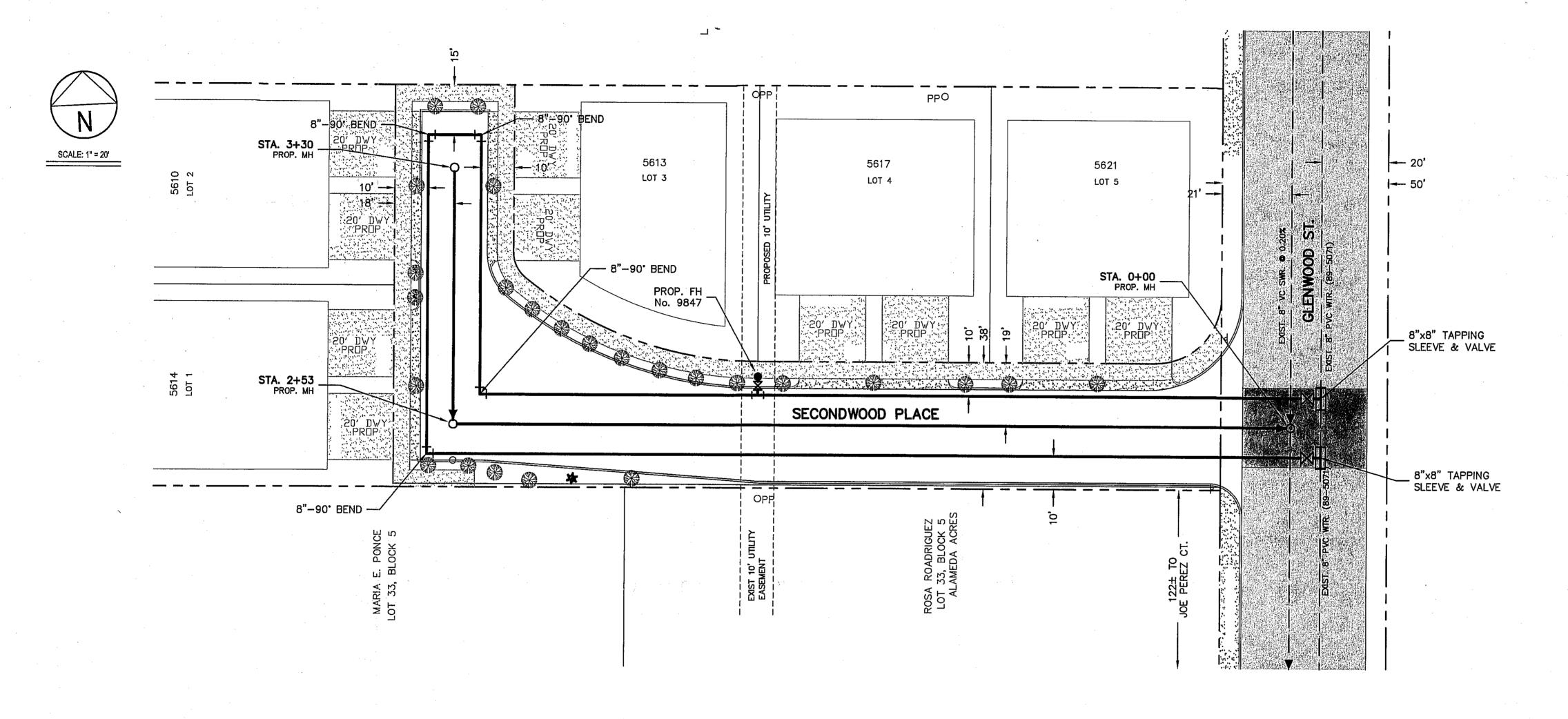












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PROPOSED WATER MAIN TOTALS

·	STREET NAMES	LENGTH, SIZE AND TYPE OF PIPE
	SECONDWOOD PLACE	715 FT. OF 8" P.V.C. C-900 (CLASS 235)

WATER NOTES: 1.) CONTACT UTILITY COMPANIES FOR EXACT LOCATION OF UNDERGROUND UTILITIES IN THIS AREA BEFORE EXCAVATION.

- EXCAVATION.

 2.) INSTALL A TRENCH SAFETY SYSTEM TO PROVIDE FOR THE SAFE EXCAVATION OF ALL TRENCHES EXCEEDING A DEPTH OF (5') FEET AS PER O.S.H.A. STANDARDS.

 3.) PROVIDE ADEQUATE CONCRETE THRUST BLOCKING AT THE FOLLOWING: TAPPING SLEEVES, TEES, BENDS, PLUGS AND ALL FITTINGS.

 4.) ALL VALVES ON P.V.C. WATER MAINS SHALL BE ANCHORED IN CONCRETE.

 5.) P.V.C. PIPE SHALL BE PLACED WITH SELECT BEDDING MATERIAL ALL AROUND.

- 6.) CITY PAVING CUT PERMIT REQUIRED BEFORE EXCAVATION. 7.) SEPARATION DISTANCES BETWEEN WATER & SEWER MAINS SHALL COMPLY WITH TCEQ STANDARDS.

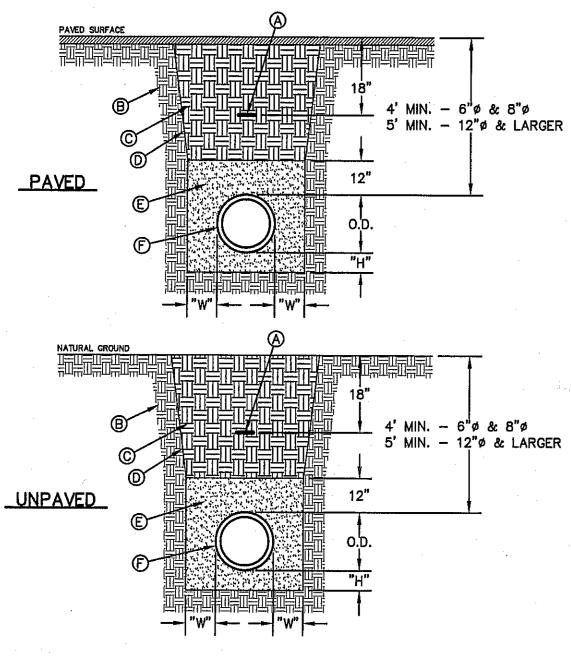
 8.) CONSTRUCTION OF PUBLIC WATER & SANITARY SEWER MAINS, INCLUDING MATERIALS & TESTING SHALL COMPLY WITH EPWU STANDARD SPECIFICATION FOR THE INSTALLATION OF WATER MAINS, SEWER MAINS & RELATED APPURTENANCES.

SEWER NOTES: 1.) CONTACT UTILITY COMPANIES FOR EXACT LOCATION OF UNDERGROUND UTILITIES IN THIS AREA BEFORE EXCAVATION.

- 2.) INSTALL A TRENCH SAFETY SYSTEM TO PROVIDE FOR THE SAFE EXCAVATION OF ALL TRENCHES EXCEEDING A DEPTH OF (5') FEET AS PER O.S.H.A. STANDARDS.
- 3.) PROVIDE MANHOLE ADAPTER WHERE P.V.C. PIPE CONNECTS TO
- 4.) P.V.C. PIPE SHALL BE PLACED WITH SELECT BEDDING MATERIAL ALL AROUND.
- 5.) CITY PAVING CUT PERMIT REQUIRED BEFORE EXCAVATION.
 6.) SEPARATION DISTANCES BETWEEN WATER & SEWER MAINS SHALL COMPLY WITH TOEQ STANDARDS.
- 7.) CONSTRUCTION OF PUBLIC WATER & SANITARY SEWER MAINS, INCLUDING MATERIALS & TESTING SHALL COMPLY WITH EPWU STANDARD SPECIFICATION FOR THE INSTALLATION OF WATER MAINS, SEWER MAINS & RELATED APPURTENANCES.



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ENGINEER'S SEAL	REVISIONS	DATE	REVISED BY	
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STATISTICS OF SOME				WATER
				GLENWOOD CIRCLE PLACE UNIT 2
***	. [WATER AND SANITARY SEWFR
ADRIANA L. CASTILLO				GLENWOOD CIRCLE PLACE UNIT 2 WATER AND SANITARY SEWER IMPROVEMENTS
OCENSED	:			SCALE DRAWN BY JOB NO. DATE M.M. 17-5079/17-9042 05/15/2017
1 A. SIONAL EN SUNTINI	·			HOR. 1" = 20' CHECKED BYDESIGNED BY
Aduainscottle	, , ,			VERT. $1" = 5'$ E.C. A.L.C. SHT 1 OF 4



EMBEDMENT CLASS "A" FOR PRESSURE PIPE AND GRAVITY PIPE DRY CONDITIONS

GENERAL NOTES: 1. BEDDING FOR PRESSURE AND GRAVITY PIPE

- IN DRY CONDITIONS. 2. PROVIDE TRENCH SAFETY SYSTEM FOR TRENCH DEPTHS GREATER THAN 5 FEET. 3. IF THE NATIVE MATERIAL EXCAVATED FROM THE TRENCH IS UNSUITABLE AS BACKFILL MATERIAL, OR THE REQUIRED COMPACTION IS UNATTAINABLE, THE CONTRACTOR SHALL, AT HIS EXPENSE, IMPORT SELECT MATERIAL TO BE MIXED WITH OR USED IN PLACE OF
- THE NATIVE MATERIAL. SELECT MATERIAL MUST BE APPROVED BY EPWU. SUBSTITUTE SOIL CEMENT SLURRY (1-SACK) IF REQUIRED IN SPECS.
- CONSTRUCTION KEY NOTES:

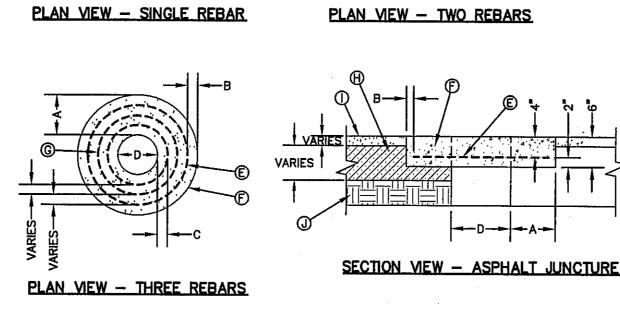
 A. APPROVED MARKING TAPE.

 B. UNDISTURBED STABLE MATERIAL. C. NATIVE MATERIAL BACKFILL. PAVED CONDITION: COMPACT TO 90% DENSITY PER ASTM D-1557 MODIFIED PROCTOR. UNPAVED CONDITION: COMPACT TO 85% DENSITY PER ASTM D-1557 MODIFIED

(*SEE NOTE #3 IF THESE PREVIOUS

- CONDITIONS CANNOT BE MET.) D. SLOPE TRENCH IN SANDY SOIL CONDITIONS. E. USE CLASS II OR CLASS III SAND PER ASTM D-2487. NATIVE MATERIAL OR IMPORTED SELECT MATERIAL MEETING OR EXCEEDING THIS REQUIREMENT MAY BE USED. COMPACT TO 85% DENSITY PER ASTM D-1557 MODIFIED PROCTOR (OR 90% D-698 STANDARD PROCTOR).
- F. APPROVED PIPE. G. TRENCH DIMENSIONS AS FOLLOWS: PIPE DIAMETER 6" - 30" GREATER THAN 30"

PIPE DIAMETER 6" - 30" GREATER THAN 30"



"D" DIAMETER OF PENETRATION	NUMBER OF #3 REINFORCING STEEL BARS	"A" MINIMUM CONCRETE HORIZONTAL DIMENSION FROM PENETRATION	"B" MINIMUM CLEARANCE FROM EDGE OF CONCRETE COLLAR TO CENTER OF NEAREST REBAR	"C" MINIMUM CLEARANCE FROM PENETRATION EDGE TO CENTER OF NEAREST REBAR
0" TO 6"	1	6*	1½"	4½"
6.1° TO 18°	2	6"	11/2"	1½*
18.1" AND OVER	3	9"	1½"	1½"
18.1" AND OVER	3	9"	1½"	1½"

CONCRETE COLLAR INSTALLATION IN PAVED AREAS

- GENERAL NOTES:

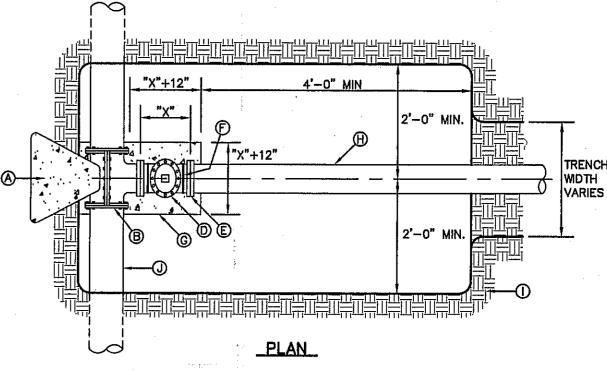
 1. THE CONCRETE COLLAR SHOULD BE CAST IN-PLACE CONCRETE. (MINIMUM 28 DAY COMPRESSIVE STRENGTH 4000 PSI. HIGH EARLY
- CONCRETE IS REQUIRED) 2. TOPS OF CONCRETE COLLAR SHALL BE FLUSH WITH ROADWAY SURFACE OR FINISHED GRADE UNLESS OTHERWISE SPECIFIED BY THE ENGINEER. 3. ANY DISTURBED SUBGRADE UNDER THE CONCRETE

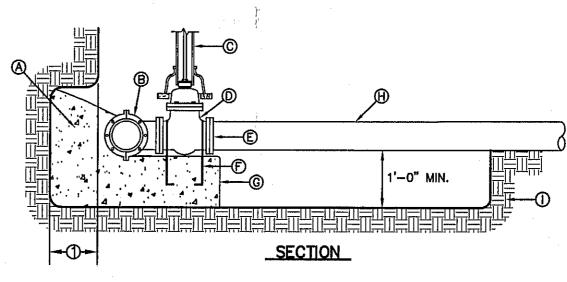
COLLAR SHALL BE COMPACTED TO 95% DENSITY ±

- 3% OPTIMUM MOISTURE CONTENT IN ACCORDANCE WITH ASTM D-1557. 4. ANY DISTURBED BASE COARSE UNDER THE CONCRETE COLLAR SHALL BE COMPACTED TO 100% DENSITY ± 2% OPTIMUM MOISTURE CONTENT IN
- ACCORDANCE WITH ASTM D-1557. 5. PROVIDE A MINIMUM OF 1 1/2" OF CONCRETE COVER FOR ALL REINFORCEMENT STEEL. 6. REINFORCING SHALL MEET ASTM C-478 AND
- TRAFFIC LOADING (HS-20).
 7. NO. 3 REINFORCING STEEL HOOPS SHALL BE SPACED EQUALLY.

CONSTRUCTION KEY NOTES:

E. #3 REINFORCING STEEL TYP.
F. CONCRETE COLLAR.
G. #3 REINFORCING STEEL EQUALLY SPACED. H. COMPACTED BASE COARSE. . PAVEMENT. J. COMPACTED SUBGRADE.





5. INSTALL PERMANENT THRUST BLOCKING UNDER VALVE BEFORE TAP IS MADE. JOINTS AND BOLTS TO BE CLEAR OF CONCRETE.

CONSTRUCTION KEY NOTES:

A. CONCRETE THRUST BLOCKING, PER DETAIL 270. TAPPING SLEEVE.

GENERAL NOTES:

1. THRUST BLOCKING SHALL EXTEND TO UNDISTURBED

2. TAPPING SLEEVE SHALL BE 18" MINIMUM FROM ANY BELL, COUPLING, VALVE OR FITTING LOCATED ALONG EXISTING WATER LINE TO BE TAPPED.

3. REPLACE EXCAVATED MATERIAL WITH CEMENT

STABILIZED BACKFILL PRIOR TO PAVING.

4. JOINTS AND BOLTS SHALL BE CLEAR OF

RISER INSTALLATION, PER DETAIL 260. D. TAPPING VALVE.

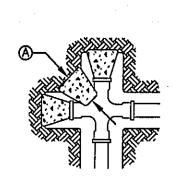
E. VALVE ENDS FOR TYPE OF PIPE INSTALLED.

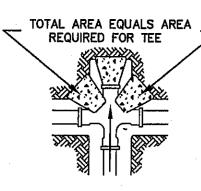
F. 2-#5 REBAR HAIRPINS, PAINT UNEMBEDDED PORTION OF BARS WITH 2-COATS OF COAL TAR EPOXY, THEN COVER WITH 2" MINIMUM OF CEMENT

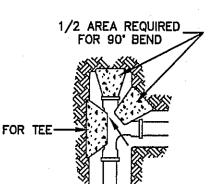
G. CONCRETE VALVE SUPPORT, PER DETAIL 271.
H. NEW WATER LINE TO BE INSTALLED. I. UNDISTURBED EARTH.

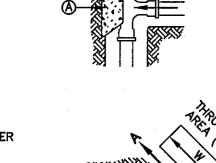
J. EXISTING WATER MAIN TO BE TAPPED.

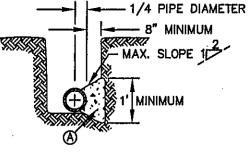
TAPPING SLEEVE AND VALVE INSTALLATION





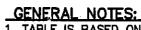






SECTION "A"

CONCRETE THRUST BLOCKING



- 1. TABLE IS BASED ON 2000#/SQ. FT. SOIL. IF CONDITIONS ARE FOUND TO INDICATE SOIL BEARING IS LESS, THE AREAS SHALL BE INCREASED ACCORDINGLY.
- 2. AREAS FOR PIPE LARGER THAN 18" SHALL BE CALCULATED. 3. CONCRETE SHALL HAVE A MINIMUM COMPRESSION STRENGTH OF 2500 PSI.
- 4. THRUST BLOCK IS TO EXTEND TO UNDISTURBED SOIL. 5. SIZE MAY BE DECREASED FOR LESSER DEGREE BENDS AS DETERMINED BY ENGINEER. 6. KEEP CONCRETE CLEAR OF M.J. OR BELL AND
- SPIGOT JOINTS. 7. BLOCK IN A SIMILAR MANNER AT TEES, HYDRANTS, PLUG OR OTHER LOCATIONS AS REQUIRED. B. WHEN NECESSARY ADDITIONAL THRUST RESTRAINT METHODS MAY BE USED, SUCH AS MECHANICAL JOINT RESTRAINTS, TIE-RODS (INSTALLED PER MANUFACTURERS' RECOMMENDATIONS) OR OTHER APPROVED METHODS.

CONSTRUCTION KEY NOTES:

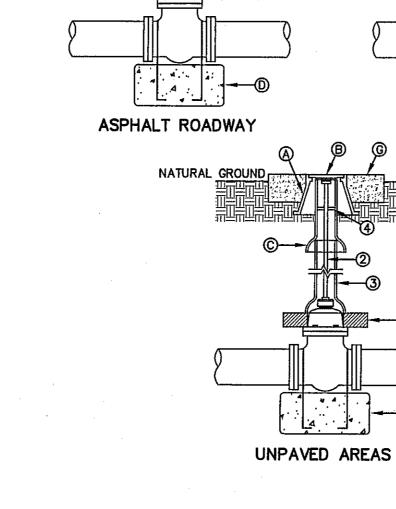
- A. LENGTH "Y & W" AS REQUIRED TO OBTAIN BEARING AREA AGAINST UNDISTURBED SOIL. B. ADDITIONAL EXCAVATION IF NECESSARY TO OBTAIN REQUIRED BEARING AREA. C. MINIMUM THRUST BLOCK AREA REQUIREMENTS FOR (Y & W) AS FOLLOWS:
- TEE, DEAD END 45° AND 90° BEND 22 1/2° BENDS 4" & LESS 3 SQ. FEET 3 SQ. FEET 4 SQ. FEET 3 SQ. FEET 6 SQ. FEET 3 SQ. FEET 9 SQ. FEET 5 SQ. FEET 13 SQ. FEET 7 SQ. FEET

23 SQ. FEE

29 SQ. FEET

12 SQ. FEET

15 SQ. FEET



GATE VALVE INSTALLATION N.T.S.

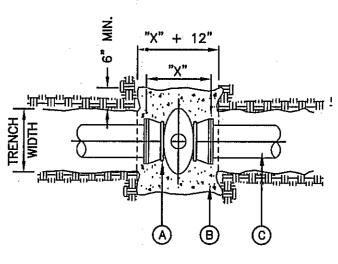
CONCRETE ROADWAY

GENERAL NOTES:

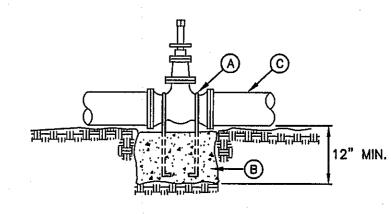
- 1. VALVE TYPE AND VALVE ENDS SHALL BE AS SHOWN ON THE PLANS. 2. ALL BURIED VALVES 5' AND DEEPER SHALL BE PROVIDED WITH SOLID STEEL EXTENSION STEM OPERATOR WITH 2" SQUARE AWWA NUT WITHIN 36" OF VALVE BOX COVER. NUT IS TO INDICATE DIRECTION OF ROTATION TO OPEN VALVE.
- 3. 8" DIA. MINIMUM VITRIFIED CLAY OR SDR 35 P.V.C. PIPE, PIPE SHALL NOT REST ON VALVE BODY. 4. " THICK STEEL TRASH RING VALVE BOX INSIDE DIAMETER MINUS 1/8".
- 5. MINIMUM 2½" CONCRETE OR BRICK ALL AROUND.
 6. CLEAN BONNET BOX OF ALL DEBRIS AND SOIL.
 7. COAT BURIED PIPE AND BONNET BOX PER SPECIFICATIONS, VALVE SHALL BE WRAPPED IN POLYETHYLENE IN ACCORDANCE WITH SPECIFICATIONS.

CONSTRUCTION KEY NOTES:

- A. BONNET BOX (SEE DETAIL 268). B. BONNET BOX COVER (SEE DETAILS 269-1 &
- 269-2)
 C. FINAL EXTENSION TO BONNET BOX SHALL BE WITH BELL AND SPIGOT ENDS (CLAY OR SDR 35 P.V.C.
- D. CONCRETE VALVE ANCHOR (SEE DETAIL 271).
 E. CONCRETE COLLAR (SEE DET 184-1) FLUSH WITH
- TOP OF H.M.A.C. F. BONNET BOX FLUSH WITH TOP OF CONCRETE,
- CONCRETE COLLAR NOT NEEDED. G. CONCRETE APRON (SEE DETAIL 184-2) FLUSH WITH BONNET BOX AND 2" ABOVE NATURAL GROUND.



<u>PLAN</u>



SECTION

GENERAL NOTES:

1. THE ENGINEER SHALL PROVIDE DESIGN FOR ALL VALVES GREATER THAN 12". 2. COMPLY WITH REQUIREMENTS OF AWWA C-550, PROTECTIVE EPOXY INTERIOR COATINGS FOR

CONSTRUCTION KEY NOTES:

A. TWO No. 5 REBAR HAIR PINS. PAINT UNEMBEDDED PORTION OF REBARS WITH TWO COATS OF COAL TAR EPOXY. B. CONCRETE VALVE SUPPORT, 2500 PSI. CONCRETE.

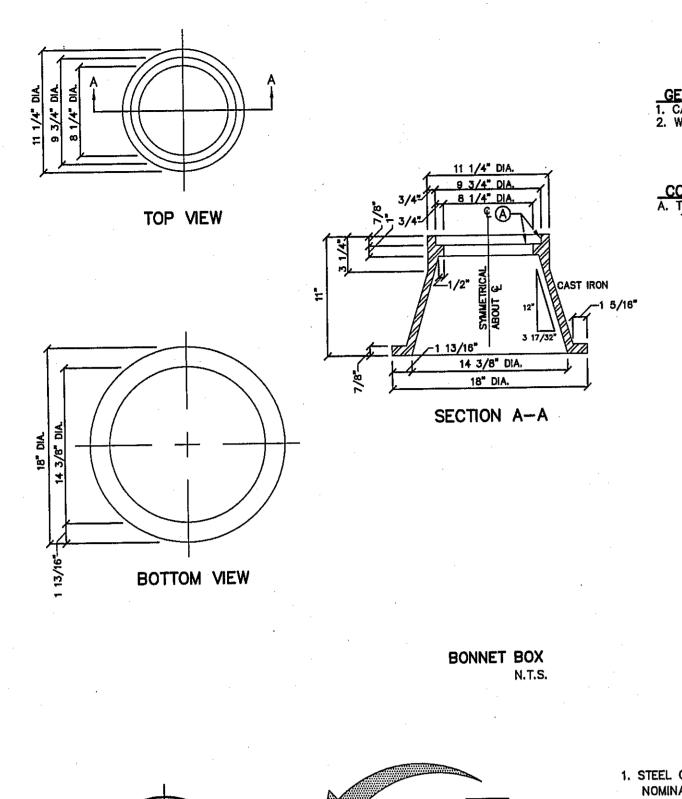
C. APPROVED PIPE.

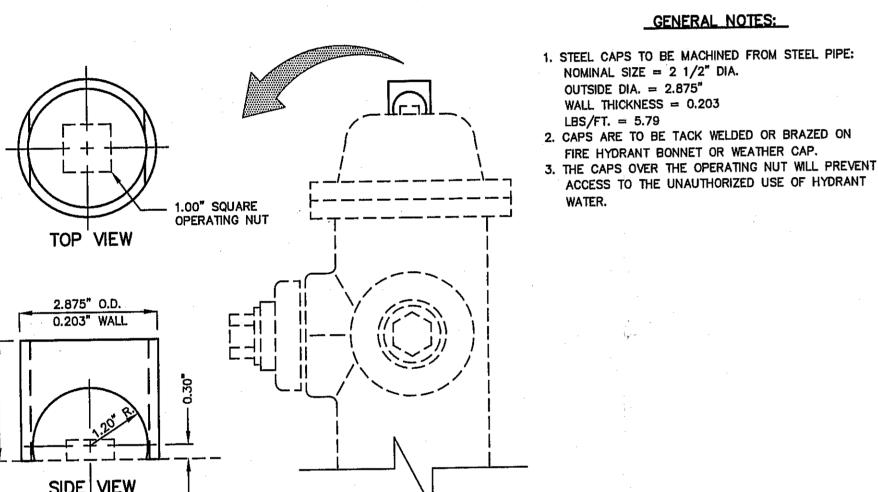
VALVE ANCHOR

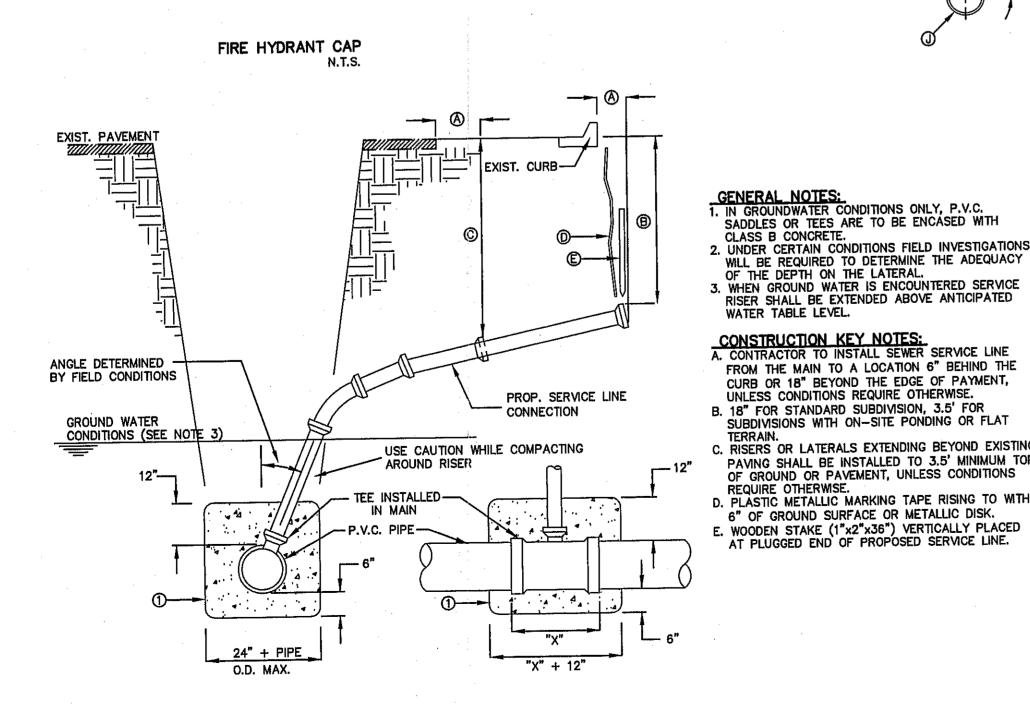


FINAL PRINT 07/05/2017

ENGINEER'S SEAL	REVISIONS	DATE	REVISED BY	•	A .		
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CENSED AND AND AND AND AND AND AND AND AND AN				SCALE	AWN BY M.M.	JOBNO. 17-5079/17-9042	D A T E 05/15/2017
Adjusting Costelli				HOR. $1'' = 20'$ C H E VERT. $1'' = 5'$	CKED BY E.C.	DESIGNED BY A.L.C.	SHT_2_0F_4_





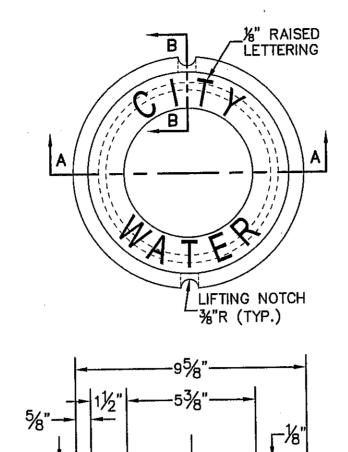


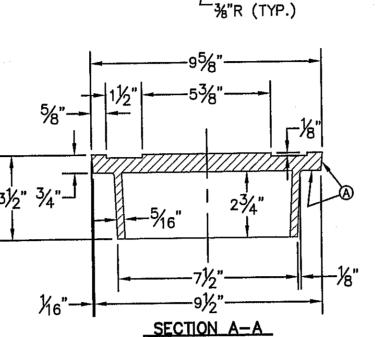
GENERAL NOTES:

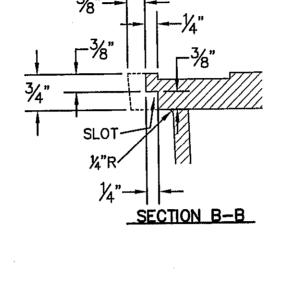
1. CASTING TO BE SMOOTH AND VOID OF AIR HOLES. 2. WEIGHT OF BONNET BOX IS 95 POUNDS.

CONSTRUCTION KEY NOTES:

A. TO BE ROUGH GROUND OF ANY IRREGULARITIES
THAT WOULD PREVENT A SNUG FIT.







GENERAL NOTES:

1. CASTINGS TO SMOOTH AND VOID OF AIR HOLES.

2. WEIGHT OF COVER IS 18 POUNDS.

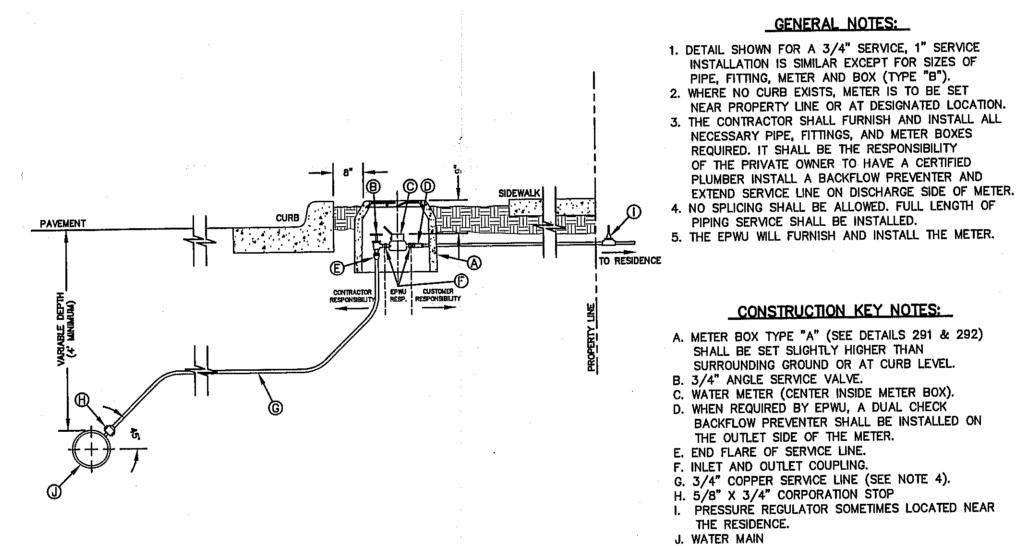
CONSTRUCTION KEY NOTES:

A. TO BE ROUGH GROUND OF ANY IRREGULARITIES
THAT WOULD PREVENT A SNUG FIT.

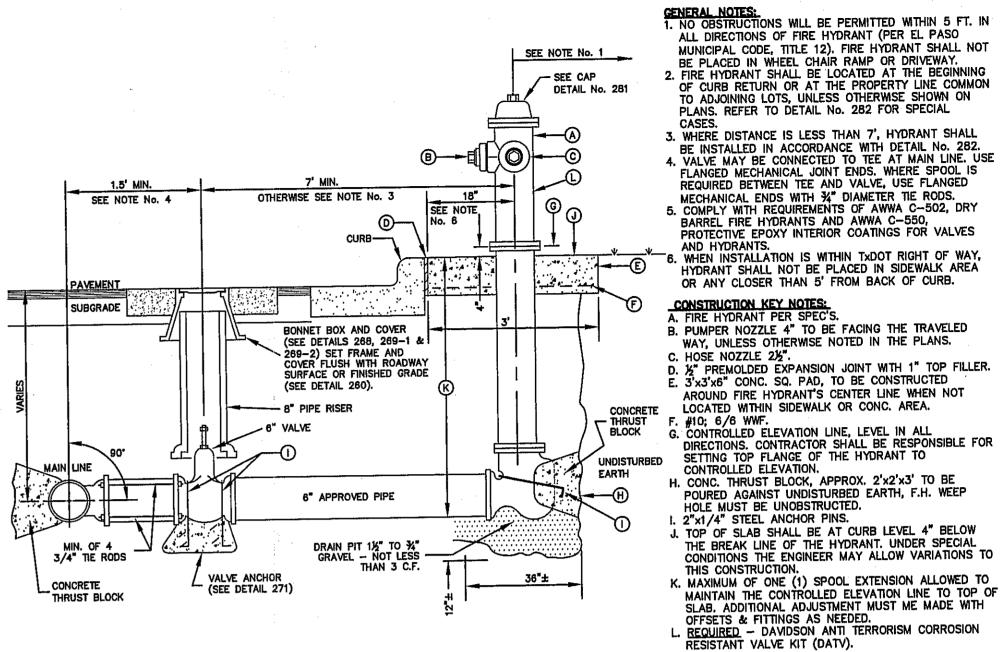
GENERAL NOTES:

CONSTRUCTION KEY NOTES:

BONNET BOX COVER (FLIP RESISTANT) N.T.S.



SERVICE LINE 34" AND 1" INSTALLATION BY CONTRACTOR



BE PLACED IN WHEEL CHAIR RAMP OR DRIVEWAY.

2. FIRE HYDRANT SHALL BE LOCATED AT THE BEGINNING OF CURB RETURN OR AT THE PROPERTY LINE COMMON TO ADJOINING LOTS, UNLESS OTHERWISE SHOWN ON PLANS. REFER TO DETAIL No. 282 FOR SPECIAL 3. WHERE DISTANCE IS LESS THAN 7', HYDRANT SHALL
BE INSTALLED IN ACCORDANCE WITH DETAIL No. 282.

4. VALVE MAY BE CONNECTED TO TEE AT MAIN LINE. USE
FLANGED MECHANICAL JOINT ENDS. WHERE SPOOL IS
REQUIRED BETWEEN TEE AND VALVE, USE FLANGED

REQUIRED BETWEEN TEE AND VALVE, USE FLANGED MECHANICAL ENDS WITH 3/ DIAMETER TIE RODS.

5. COMPLY WITH REQUIREMENTS OF AWWA C-502, DRY
BARREL FIRE HYDRANTS AND AWWA C-550,
PROTECTIVE EPOXY INTERIOR COATINGS FOR VALVES

CONSTRUCTION KEY NOTES: A. FIRE HYDRANT PER SPEC'S.

B. PUMPER NOZZLE 4" TO BE FACING THE TRAVELED WAY, UNLESS OTHERWISE NOTED IN THE PLANS. C. HOSE NOZZLE 2½".

D. ½" PREMOLDED EXPANSION JOINT WITH 1" TOP FILLER.

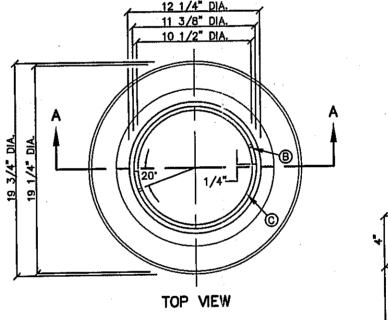
E. 3'x3'x6" CONC. SQ. PAD, TO BE CONSTRUCTED AROUND FIRE HYDRANT'S CENTER LINE WHEN NOT LOCATED WITHIN SIDEWALK OR CONC. AREA.

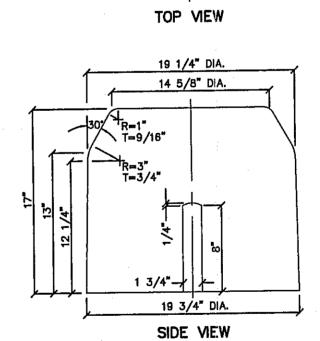
F. #10; 6/6 WWF.
G. CONTROLLED ELEVATION LINE, LEVEL IN ALL
DIRECTIONS. CONTRACTOR SHALL BE RESPONSIBLE FOR
SETTING TOP FLANGE OF THE HYDRANT TO
CONTROLLED ELEVATION. H. CONC. THRUST BLOCK, APPROX. 2'x2'x3' TO BE POURED AGAINST UNDISTURBED EARTH, F.H. WEEP

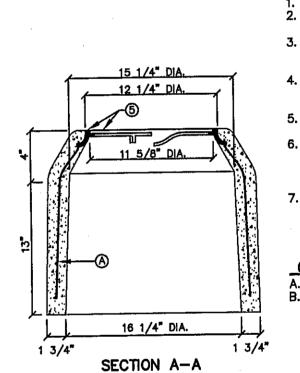
HOLE MUST BE UNOBSTRUCTED. I. 2"x1/4" STEEL ANCHOR PINS. J. TOP OF SLAB SHALL BE AT CURB LEVEL 4" BELOW
THE BREAK LINE OF THE HYDRANT. UNDER SPECIAL
CONDITIONS THE ENGINEER MAY ALLOW VARIATIONS TO THIS CONSTRUCTION. K. MAXIMUM OF ONE (1) SPOOL EXTENSION ALLOWED TO

MAINTAIN THE CONTROLLED ELEVATION LINE TO TOP OF SLAB. ADDITIONAL ADJUSTMENT MUST ME MADE WITH OFFSETS & FITTINGS AS NEEDED.
REQUIRED - DAVIDSON ANTI TERRORISM CORROSION RESISTANT VALVE KIT (DATV).

FIRE HYDRANT INSTALLATION







GENERAL NOTES:

1. INSTALL TO GRADE MATCHING TOP OF CURB. 2. ANGLE VALVE SHALL BE IN LINE WITH THE INLET/OUTLET PORTS OF THE METER BOX.

3. METER BOXES SHALL NOT BE INSTALLED UNDER SIDEWALKS, DRIVEWAYS, OR PROPOSED ABOVE GROUND STRUCTURES.

4. WHERE NO CURBING EXIST, INSTALL BOXES IN ACCESSIBLE LOCATIONS BEYOND LIMITS OF STREET SURFACING, WALKS AND DRIVEWAYS.

5. METER BOX RING AND COVER PER EPWU DETAILS 6. WHERE IT IS NECESSARY TO INSTALL A TYPE "A" BOX FOR 3/4" METER UNDER ROADWAYS OF TRAFFIC BEARING SURFACES, BOX SHALL BE ENCASED IN 12" CONCRETE, 3000 PSI. MINIMUM. METER BOX SHALL BE SINGLE UNIT CONSTRUCTION; CONCRETE TO HAVE A MINIMUM 28 DAYS COMPRESSIVE STRENGTH OF 4000 PSI.

CONSTRUCTION KEY NOTES: A. 3/16", 9 GAUGE BLACK ANNEALED WIRE B. LUG-STOP C. CAST IRON RING

METER BOX TYPE "A" FOR 34" SERVICE INSTALLATION



FINAL PRINT 07/05/2017

DATE REVISED REVISIONS el paso WATER ENGINEER'S SEAL GLENWOOD CIRCLE PLACE UNIT 2 WATER AND SANITARY SEWER IMPROVEMENTS ADRIANA L. CASTILLO J O B N O . 17-5079/17-9042 108518 05/15/2017 HECKED BYDESIGNED BY VERT. 1'' = 5'

GENERAL NOTES:

I. IN GROUNDWATER CONDITIONS ONLY, P.V.C. SADDLES OR TEES ARE TO BE ENCASED WITH

CLASS B CONCRETE.

2. UNDER CERTAIN CONDITIONS FIELD INVESTIGATIONS
WILL BE REQUIRED TO DETERMINE THE ADEQUACY
OF THE DEPTH ON THE LATERAL.

3. WHEN GROUND WATER IS ENCOUNTERED SERVICE
RISER SHALL BE EXTENDED ABOVE ANTICIPATED
WATER TABLE LEVEL. CLASS B CONCRETE.

CONSTRUCTION KEY NOTES:

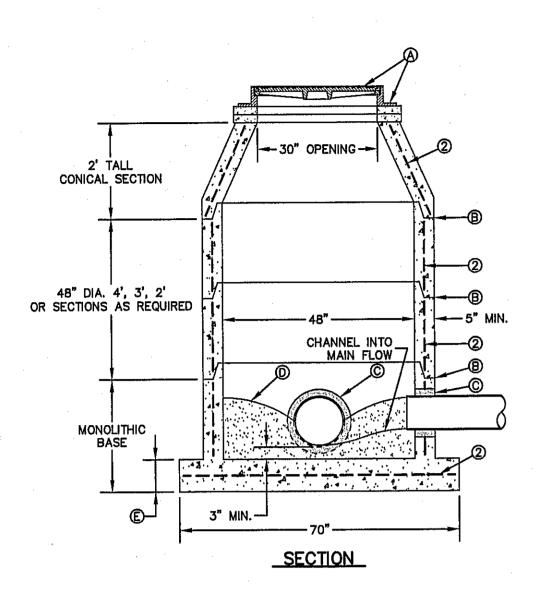
A. CONTRACTOR TO INSTALL SEWER SERVICE LINE FROM THE MAIN TO A LOCATION 6" BEHIND THE CURB OR 18" BEYOND THE EDGE OF PAYMENT, UNLESS CONDITIONS REQUIRE OTHERWISE.

6" OF GROUND SURFACE OR METALLIC DISK.

B. 18" FOR STANDARD SUBDIVISION, 3.5' FOR SUBDIVISIONS WITH ON-SITE PONDING OR FLAT C. RISERS OR LATERALS EXTENDING BEYOND EXISTING PAVING SHALL BE INSTALLED TO 3.5' MINIMUM TOP OF GROUND OR PAVEMENT, UNLESS CONDITIONS REQUIRE OTHERWISE. D. PLASTIC METALLIC MARKING TAPE RISING TO WITHIN

SEWER SERVICE RISER

AND SERVICE LINE CONNECTION



MANHOLE TYPE "A"

GENERAL NOTES: 1. MANHOLE TYPE "A" SHALL BE USED FOR LINES 21"

- AND SMALLER. 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" O 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.

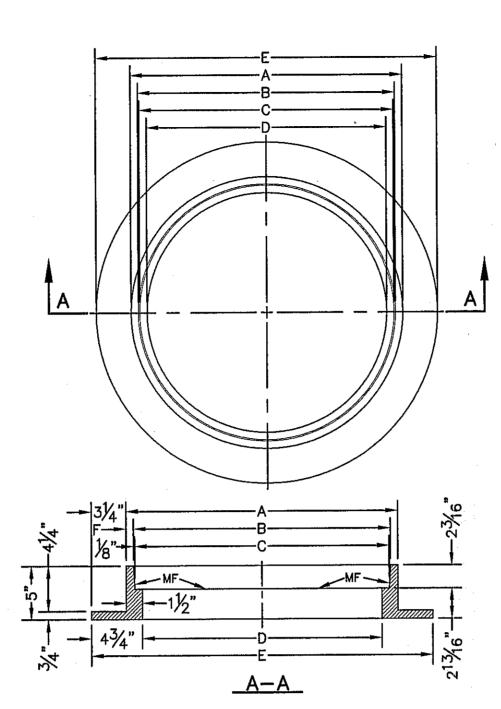
 5. MANUFACTURER TO PROVIDE LIFTERS OF ADEQUATE
- SIZE AS NEEDED.
 6. THE SUBGRADE UNDER THE BASE SHALL BE
- COMPACTED TO 95% DENSITY IN ACCORDANCE WITH
- ASTM D-1557. 7. MANHOLES BELOW GROUNDWATER TO BE EXTERNALLY AND INTERNALLY COATED WITH BITUMINOUS COATING.

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.
- D. GROUT AS REQUIRED. E. CONCRETE BASE SHALL BE 8" FOR MH's UP TO 12' DEEP AND 12" FOR DEPTHS GREATER THAN 12'.



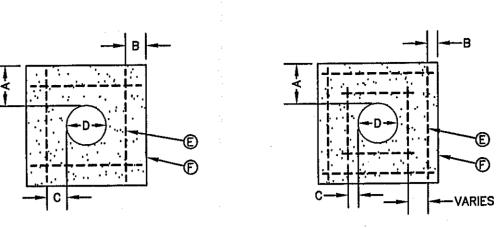
SEWER MANHOLE RING N.T.S.

GENERAL NOTES: 1. MATCHING SURFACES MARKED "MF" TO BE FINISHED OF ANY IRREGULARITIES THAT WOULD PREVENT A

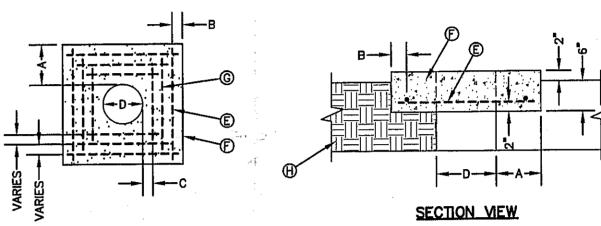
- SNUG FIT. 2. CASTING TO BE SMOOTH & VOID OF AIR HOLES.
 3. CASTING MUST MEET REQUIREMENTS OF AASHTO
- 4. AS-CAST DIMENSIONS MAY VARY 16"±/ PER FOOT (AASHTO M306-07).
- 5. WEIGHT MAY VARY 5%± (AASHTO M306-07).

MANHOLE RING	MANHOLE - ALL TYPES	*MANHOLE TYPE A, A1, A2 & C
Α	33"	25½"
В	31¾"	24%"
С	31½"	23%"
D	30"	22½"
E	39½"	32"
F	5%"	1½6"
WEIGHT	205 lbs.	170 lbs.

*OBSOLETE -- DO NOT USE (FOR REFERENCE ONLY)



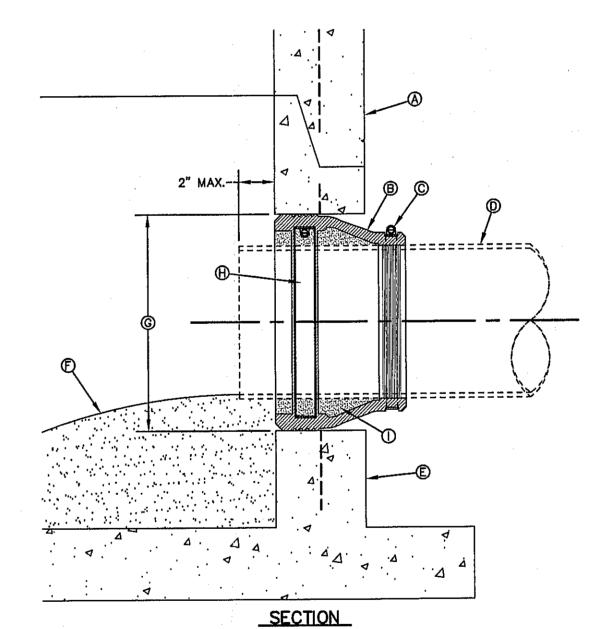
PLAN VIEW - TWO REBARS PLAN VIEW - SINGLE REBAR



PLAN VIEW - THREE REBARS

"D" DIAMETER OF PENETRATION	NUMBER OF #3 REINFORCING STEEL BARS	"A" MINIMUM CONCRETE HORIZONTAL DIMENSION FROM	"B" MINIMUM CLEARANCE FROM EDGE OF CONCRETE APRON TO CENTER OF NEAREST REBAR	"C" MINIMUM CLEARANCE FROM PENETRATION EDGE TO CENTER OF NEAREST REBAR
0" TO 6"	1	PENETRATION 4"	1½"	4½"
6.1" TO 18"	2	6"	1½"	11/2"
18.1" AND OVER	3	8**	1½"	1½"

CONCRETE APRON
INSTALLATION IN NON PAVED AREAS



PIPE CONNECTION TO MANHOLE

GENERAL NOTES:

1. MANHOLE CONNECTOR SHALL BE KOR-N-SEAL OR EQUAL MEETING THE REQUIREMENTS OF ASTM C-923. CONNECTOR SHALL BE FURNISHED BY CONTRACTOR.

GENERAL NOTES:

1. THE CONCRETE APRON SHOULD BE CAST

IN-PLACE CONCRETE. (MINIMUM 28 DAY COMPRESSIVE STRENGTH 4000 PSI. HIGH EARLY

CONCRETE IS REQUIRED)

2. TOPS OF CONCRETE APRON SHALL BE FLUSH WITH ROADWAY SURFACE OR FINISHED GRADE UNLESS OTHERWISE SPECIFIED BY THE ENGINEER.

TRAFFIC LOADING (HS-20).

5. NO. 3 REBARS SPACED EQUALLY MAY BE LAP TIED

3. PROVIDE A MINIMUM OF 1 1/2" OF CONCRETE COVER FOR ALL REINFORCEMENT STEEL.

4. REINFORCING SHALL MEET ASTM C-478 AND

OR SQUARE HOOPS.

CONSTRUCTION KEY NOTES: E. #3 REINFORCING STEEL TYP. F. CONCRETE APRON.

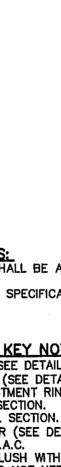
G. #3 REINFORCING STEEL EQUALLY SPACED.
H. COMPACTED BACKFILL.

CONSTRUCTION KEY NOTES:

A. PRECAST MANHOLE BARREL.

B. FLEXIBLE CONNECTOR.

- C. PIPE CLAMP SS 316. D. APPROVED PIPE. E. PRECAST MANHOLE BASE.
 F. GROUT AS REQUIRED TO FORM SMOOTH CHANNEL
 TO MANHOLE INVERT.
- G. PIPE OPENINGS/KNOCKOUTS AS REQUIRED TO FIT PIPE SIZE.
 H. EXPANSION BAND SS 316.
 I. FILL SPACE WITH GROUT.



GENERAL NOTES:

. MANHOLE TYPE SHALL BE AS SHOWN ON THE 2. SEAL JOINTS PER SPECIFICATIONS.

CONSTRUCTION KEY NOTES: A. MANHOLE RING (SEE DETAIL 377) B. MANHOLE COVER (SEE DETAIL 378). C. CONCRETE ADJUSTMENT RINGS AS REQUIRED. D. MANHOLE CONE SECTION.

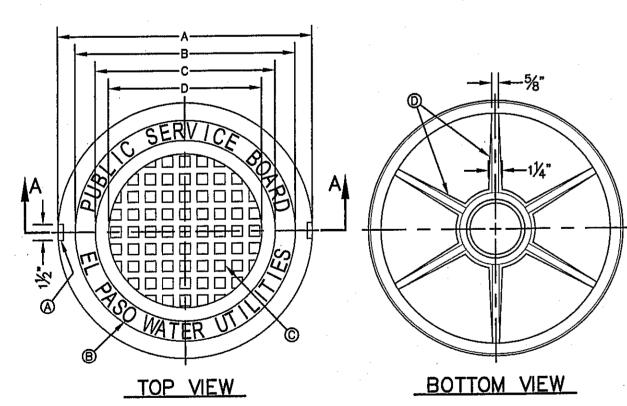
E. MANHOLE BARREL SECTION. F. CONCRETE COLLAR (SEE DETAIL 184-1) FLUSH WITH TOP OF H.M.A.C.

G. MANHOLE RING FLUSH WITH TOP OF CONCRETE, CONCRETE COLLAR NOT NEEDED. H. CONCRETE APRON (SEE DETAIL 184-2) FLUSH WITH MANHOLE RING AND 2" ABOVE NATURAL GROUND.



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	\			GLENWOOD CIRCLE PLACE UNIT 2 WATER AND SANITARY SEWER
ADRIANA L. CASTILLO	2			IMPROVEMENTS
108518 o	7/6			SCALE DRAWN BY JOB NO. DATE 11. 00. 11. 00. 05/15/2017
Admin & Castill	1 / 1			HOR. $1" = 20'$ VERT. $1" = 5'$ CHECKED BYDESIGNED BY $E.C.$ SHT 4 OF 4



MÁNHÓLE RÍNG LIFTING NOTCH

SEWER MANHOLE COVER



- 2. CASTING TO BE SMOOTH & VOID OF AIR HOLES.
 3. CASTING MUST MEET REQUIREMENTS OF AASHTO M306-07.
- 4. AS-CAST DIMENSIONS MAY VARY 16"±/ PER FOOT (AASHTO M306-07). 5. WEIGHT MAY VARY 5%± (AASHTO M306-07).

CONSTRUCTION KEY NOTES: A. LIFTING NOTCH.

B. 36" RAISED LETTERING. C. 1" SQUARES (36" TALL) WITH 56" SPACE BETWEEN.
D. REINFORCING RIBS.
E. SLOT.

. 1		
MANHOLE COVER	MANHOLE - ALL TYPES	*MANHOLE TYPE A, A1, A2 & C
Α	31¾"	23%"
В	28%"	20%"
С	24%"	16%"
D	21%"	14%"
WEIGHT	200 lbs.	165 lbs.

*OBSOLETE -- DO NOT USE (FOR REFERENCE ONLY)

⊕ ⊢12" MAX.

ASPHALT ROADWAY

UNPAVED AREAS

MANHOLE RING AND COVER INSTALLATION

CONCRETE ROADWAY