

VISTA DEL ESTE WATER DISTRIBUTION SYSTEM



EL PASO COUNTY COMMISSIONERS COURT

RUBEN JOHN VOGT
COUNTY JUDGE

CARLOS LEON
COMMISSIONER PCT. 1

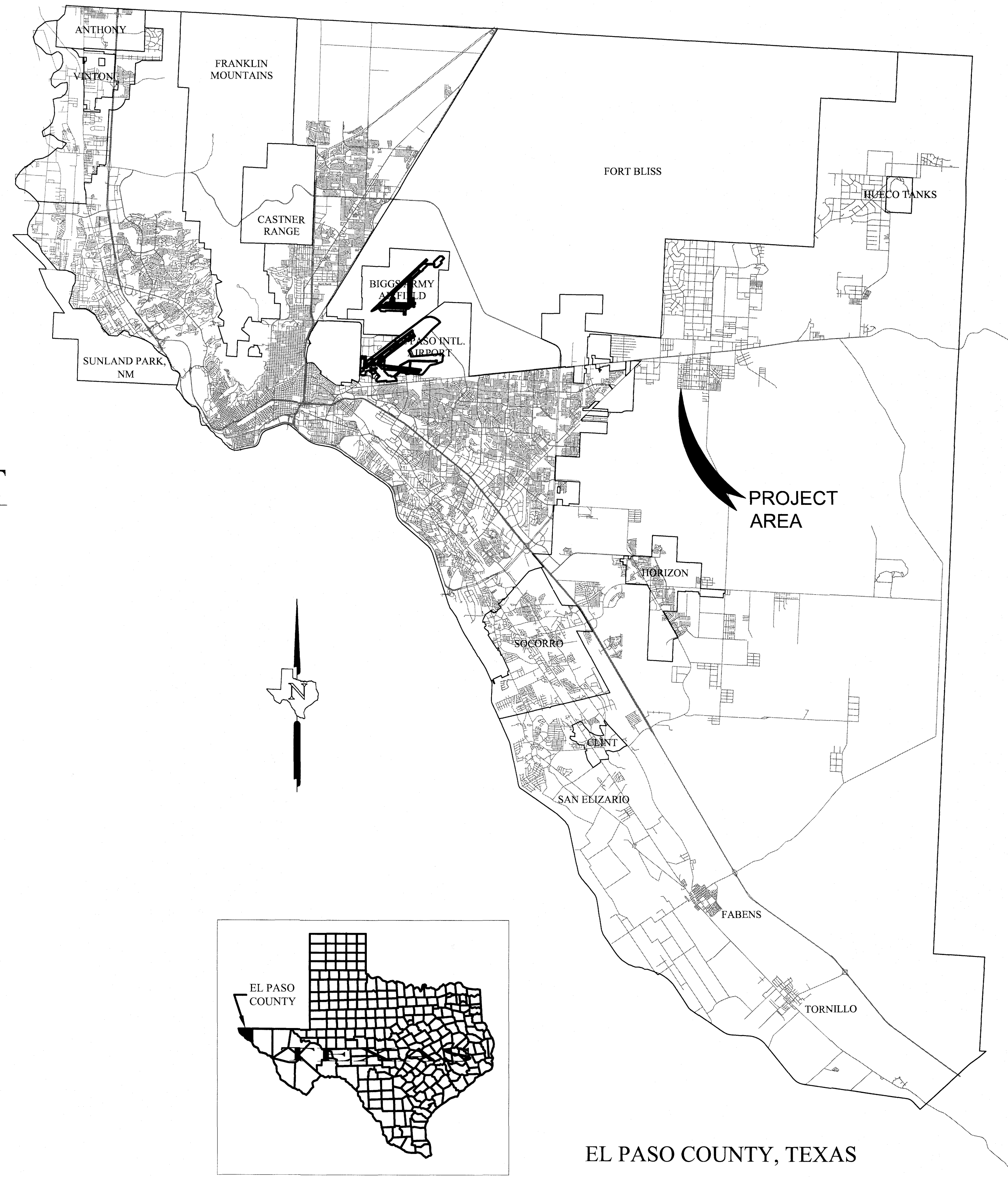
DAVID STOUT
COMMISSIONER PCT. 2

VINCENT PEREZ
COMMISSIONER PCT. 3

ANDREW HAGGERTY
COMMISSIONER PCT. 4



Fernando Hernandez, Jr.
FERNANDO HERNANDEZ, P.E.
COUNTY ENGINEER



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GENERAL NOTES

1. ALL EXISTING WATER LINES CURRENTLY IN SERVICE MUST REMAIN IN SERVICE THROUGHOUT CONSTRUCTION OF THE NEW LINES EXCEPT AS NOTED IN THE DRAWINGS. THE CONTRACTOR IS RESPONSIBLE FOR PROTECTING EXISTING WATER LINES AND ALL OTHER UTILITIES (INCLUDING SERVICE CONNECTIONS) FROM DAMAGE AS A RESULT OF CONSTRUCTION ACTIVITIES.
2. ALTHOUGH ALL EFFORTS HAVE BEEN MADE TO INDICATE ALL EXISTING UTILITIES ON PLANS, IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO LOCATE & PROTECT ALL SAID UTILITIES AS WELL AS SERVICE CONNECTIONS (WHETHER INDICATED ON PLANS OR NOT) PRIOR TO AND DURING CONSTRUCTION.
3. CONTRACTOR IS RESPONSIBLE FOR COORDINATING WITH GAS, ELECTRIC, TELEPHONE, CABLE TV, WATER UTILITIES AND OWNERS FOR ANY RELOCATION AND/OR PROTECTION OF EXISTING LINES OR CABLES AS REQUIRED DUE TO CONSTRUCTION ACTIVITIES.
4. ALL EXISTING ROADWAYS AND DRIVEWAYS AFFECTED BY CONSTRUCTION ACTIVITIES SHALL BE RESTORED TO ORIGINAL CONDITION BY CONTRACTOR. ALL BUSINESSES, RESIDENCES, ETC. SHALL BE PROVIDED WITH FULL ACCESS AT ALL TIMES. (ALSO TO INCLUDE ACCESS DURING NON-WORKING HOUSES)
5. THE TEXAS DEPARTMENT OF TRANSPORTATION (TXDOT) MUST BE NOTIFIED 48 HOURS IN ADVANCE OF ANY CONSTRUCTION ACTIVITIES WITHIN THEIR R.O.W. ON MONTANA AVE. ALL DENSITY TESTS TAKEN WITHIN THE TXDOT R.O.W. SHALL BE FORWARDED TO TXDOT AND OWNER.
6. ALL GAS UTILITIES, BUT NOT LIMITED TO INCLUDING EL PASO NATURAL GAS CO., SOUTHERN UNION GAS CO., NAVAJO REFINING CO., AND DIAMOND SHAMROCK PIPELINE CO. MUST BE NOTIFIED 48 HOURS IN ADVANCE OF ANY CONSTRUCTION ACTIVITIES WITHIN THEIR R.O.W. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION AND SHALL FOLLOW UTILITY GUIDE LINES IN ACCORDANCE TO STATE AND / OR LOCAL STANDARDS.
7. THE CONTRACTOR SHALL NOTIFY THE CITY OF EL PASO ENGINEERING DEPARTMENT, IN WRITING, OF ANY PROPOSED DUMP SITE(S) FOR OVERBURDEN AND ANY CONSTRUCTION DEBRIS, AND OBTAIN APPROVAL, BEFORE REMOVAL FROM THE PROJECT SITE.
8. VERTICAL CONTROL: ALL ELEVATIONS ARE BASED UPON CITY OF EL PASO DATUM N:10659596.409 E: 419712.319 ELEV: 3976.765 WGS84
9. CONTRACTOR SHALL VERIFY LOCATION, SIZE, AND MATERIAL OF ALL EXISTING WATER LINES TO BE TIED IN PRIOR TO BEGINNING TIE-IN CONSTRUCTION.
10. NEW WATER LINES SHALL BE INSTALLED 5' FROM THE EDGE OF PAVEMENT. UNLESS OTHERWISE STATED ON THE PLANS, CONTRACTOR SHALL BE RESPONSIBLE FOR PLACING SHOULDER BACK TO EXISTING CONDITIONS.
11. THE CONTRACTOR SHALL VISIT AND FAMILIARIZE HIMSELF WITH THE PROJECT SITE PRIOR TO SUBMITTING THEIR BID.
12. IT WILL BE THE CONTRACTORS RESPONSIBILITY TO PROVIDE AUTOMOBILE AND PEDESTRIAN ACCESS AT ALL TIMES, INCLUDING SATURDAYS, SUNDAYS AND HOLIDAYS. THIS INCLUDES BUT NOT LIMITED TO DRIVEWAYS, STREETS AND ALLEYS. THIS REQUIREMENT SHALL BE FULFILLED AT NO EXTRA COST TO THE OWNER.
13. ALL CONCRETE SHALL BE 3000 PSI AT 28 DAYS UNLESS OTHERWISE SPECIFIED ON PLANS.
14. VIBRATORY ROLLERS SHALL NOT BE PERMITTED ON ANY PHASE OF THIS PROJECT UNLESS APPROVED BY OWNER.
15. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO OBTAIN A TRAFFIC CONTROL PLAN PERMIT FROM THE COUNTY OF EL PASO AT LEAST 2 WEEKS PRIOR TO CONSTRUCTION.
16. CONTRACTOR SHALL NOTIFY THE COUNTY OF EL PASO AND RESIDENT 48 HOURS PRIOR TO ANY STREET CLOSURES.
17. CONTRACTOR SHALL COORDINATE WITH HOME OWNER FOR LOCATION OF SERVICES. CONTRACTOR SHALL PRESENT HOME OWNER WITH A PLAN FOR OWNERS SIGNATURE OF APPROVAL PRIOR TO COMMENCING SERVICE TRANSFER.
18. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH TCEQ AND EPWU-PSB STANDARDS.
19. ANY ALIGNMENT DEVIATIONS SHALL COMPLY WITH MANUFACTURER'S RECOMMENDATIONS.
20. CONTRACTOR SHALL DISPOSE OF ALL SPOILS OFFSITE AND SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
21. STANDARD SHORING AND BRACING OF TRENCHES, AS APPLICABLE PER OSHA STANDARDS IS MANDATORY. CONTRACTOR SHALL SUBMIT A TRENCH SAFETY PLAN FOR APPROVAL PRIOR TO PERFORMING ANY EXCAVATION.
22. PIPE FITTING AND JOINTS, C-800, CE-200 WITH BOLTLESS GASKET JOINTS AND CAST IRON MECHANICAL JOINTS OR FLANGED FITTINGS UNLESS OTHERWISE SHOWN ON THE PLANS. ALL TEES, VALVES, BONDS SHALL BE CAST IRON MECHANICAL JOINT RESTRAINTS (MEGALUGS OR APPROVED EQUAL).
23. ALL WATERLINES MUST BE DISINFECTED BEFORE USING ACCORDING TO THE CURRENT STANDARDS. AWWA C651-92. A MINIMUM OF ONE BACTERIOLOGICAL SAMPLE MUST BE COLLECTED FOR EACH 1,000 FEET OF COMPLETED WATERLINE TO CHECK EFFICIENCY OF DISINFECTION. PROCEDURE MUST BE REPEATED IF CONTAMINATION PERSISTS AS PER 290.44(F)(3).
24. ALL NEWLY INSTALLED PIPE AND FITTING MUST CONFORM TO ANSI / NSF STANDARD 81 AND MUST BE CERTIFIED BY AN ORGANIZATION ACCREDITED BY ANSI. ALL PLASTIC PIPE FOR USE IN PUBLIC WATER SYSTEMS MUST ALSO BEAR THE NATIONAL SANITATION FOUNDATION SEAL OF APPROVAL (NSF-AW) AS PER 290.44(A)(1) AND (2).
25. AFTER WATER LINES HAVE BEEN INSTALLED AND CONNECTED, A PRESSURE TEST, FOLLOWED BY A LEAKAGE TEST, WILL BE CONDUCTED BY THE CONTRACTOR AND OBSERVED BY THE OWNER. THE CONTRACTOR SHALL BE PRESENT AND SHALL FURNISH ALL NECESSARY LABOR AND EQUIPMENT FOR CONDUCTING THE TEST. THE SPECIFIED TEST PRESSURES WILL BE BASED ON THE ELEVATION OF THE LOWEST POINT OF THE LINE OR SECTION UNDER TEST. VENTS ARE NOT LOCATED AT ALL HIGH POINTS, THE CONTRACTOR SHALL INSTALL CORPORATION COCKS AT SUCH POINTS. ALL DRAIN HYDRANT AND FIRE HYDRANT LEADS WITH THE MAIN VALVES OPEN. THE HYDRANT VALVE SEATS CLOSEST AND NOZZLE CAPS OPEN, SHALL BE INCLUDED IN TEST. THE ENTIRE REJECT SHALL BE TESTED AT A PRESSURE OF 200 PSI FOR SUFFICIENT PERIOD (APPROXIMATELY 10 MINUTES) TO DISCOVER ALL LEAKING OR DEFECTIVE MATERIALS. A LEAKAGE TEST WILL FOLLOW THE PRESSURE TEST AND BE CONDUCTED ON THE ENTIRE PROJECT OR EACH SECTION. THE LEAKAGE TEST SHALL BE AT 150 PSI FOR AT LEAST ONE HOUR. REPAIRS SHALL BE MADE BY THE CONTRACTOR TO CORRECT LEAKING AND / OR DEFECTIVE MATERIAL.
26. CONTRACTOR SHALL HAND DIG AND EXPOSE AROUND EXISTING UTILITIES WHEN LINES ARE PRESENT IN PATH OF TRENCHING FOR NEW INSTALLATION.
27. CONTRACTOR SHALL CREATE A VIDEO LOG OF THE CONSTRUCTION SITE BEFORE MOBILIZING ONTO SITE. VIDEO LOG SHALL INCLUDE PRE-CONSTRUCTION CONDITIONS ALONG ROADSIDE AND ALONG PROPERTY CONNECTION ROUTES. CONTRACTOR SHALL PROVIDE TWO ELECTRONIC COPIES OF VIDEO LOG TO OWNER TO VERIFY ACTUAL CONDITIONS.
28. CONTRACTOR SHALL FIELD ADJUST WATERLINES TO ALLOW FOR A MINIMUM OF 5 FEET SEPARATION TO GAS LINES THAT PARALLEL EACH OTHER.

BEFORE YOU DIG

CONTRACTOR SHALL COORDINATE AND FIELD LOCATE ALL EXISTING UNDERGROUND UTILITIES IN THE PROJECT AREA.


CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD LOCATING, POT HOLING AND/OR EXPOSING LINES TO VERIFY POSSIBLE CONFLICTS PRIOR TO ANY EXCAVATING ACTIVITY.

CONTRACTOR SHALL NOTIFY ENGINEER OF ANY POSSIBLE CONFLICT 2 WEEKS PRIOR TO TRENCHING IN THAT AREA.

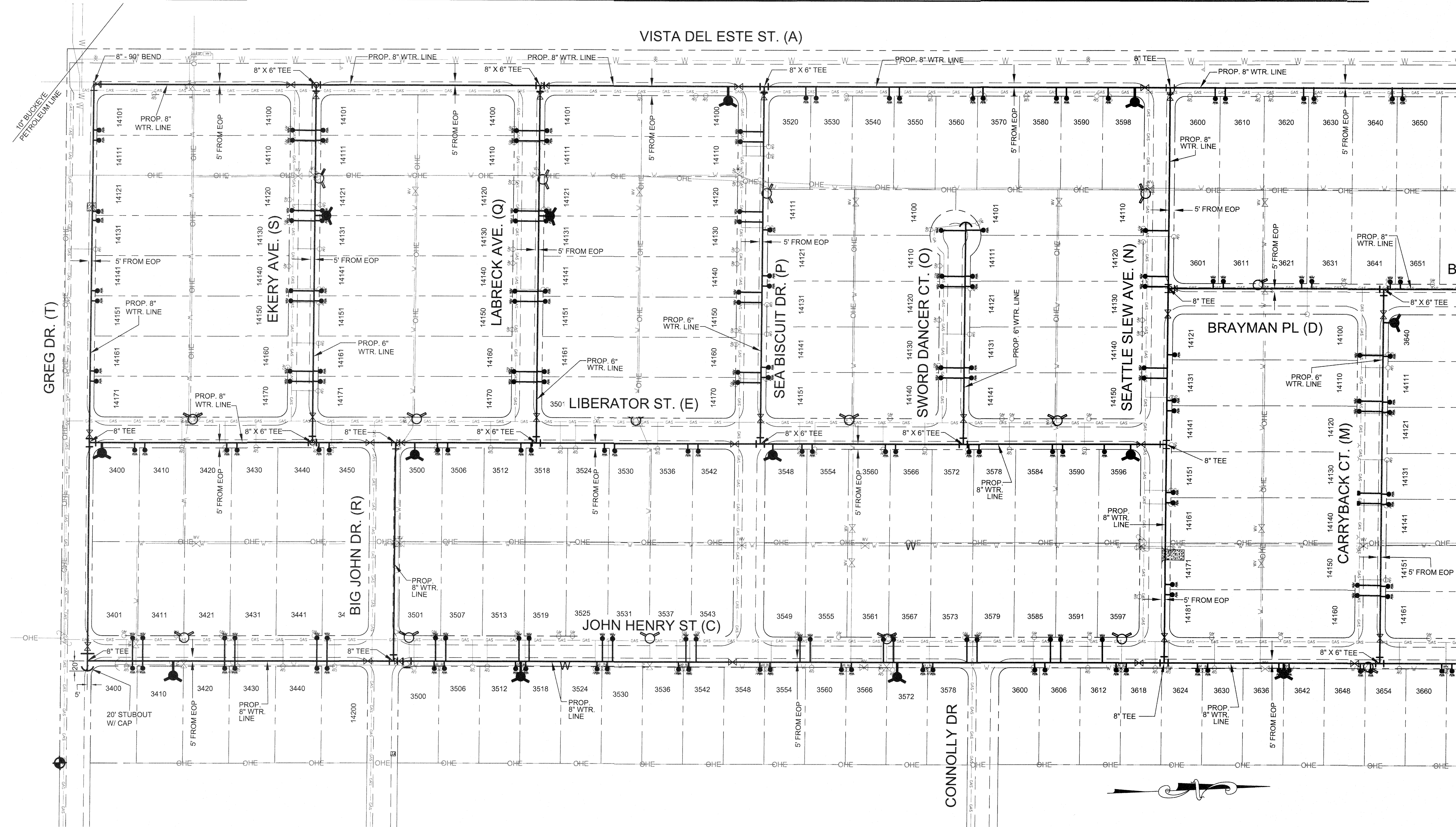
DIG TESS	- 1-811
EL PASO ELECTRIC CO.	- 543-2047
TEXAS GAS SERVICE	- 544-6300
AT&T	- 1-800-296-8343
TIME WARNER CABLE	- 772-1123
ONE CALL	- 811 OR 1-800-344-8377
E.P. COUNTY WATER	- 479-2508
E.P. NATURAL GAS	- 471-9124
SM & P	- 1-866-861-7678
AT&T FIBER OPTICS	- 1-817-589-1056
DELL TELEPHONE COOP INC.	- 1-800-245-2991
TXNW-ATT/D	-
ONEOK	- 740-8512
BUCKEYE GULF COAST PIPE LINES	- 1-877-530-5685



GENERAL LAYOUT

ENGINEER	DATE	REVISIONS	BY
	10/25/27		
SCALE:	DATE	DESIGN BY	F.H.
	09/12/18	DRAWN BY	A.G.
		CHECK BY	F.H.
		APPROV. BY	F.H.
PROJECT NAME	VISTA DEL ESTE WATER DISTRIBUTION SYSTEM		
COUNTY OF EL PASO PUBLIC WORKS DEPARTMENT			
SHEET TITLE	GENERAL LAYOUT, NOTES, & DETAILS		
SHEET	2 OF 31		

VISTA DEL ESTE - WATER DISTRIBUTION SYSTEM



MATCH LINE REFER TO SHEET 4 FOR CONTINUATION

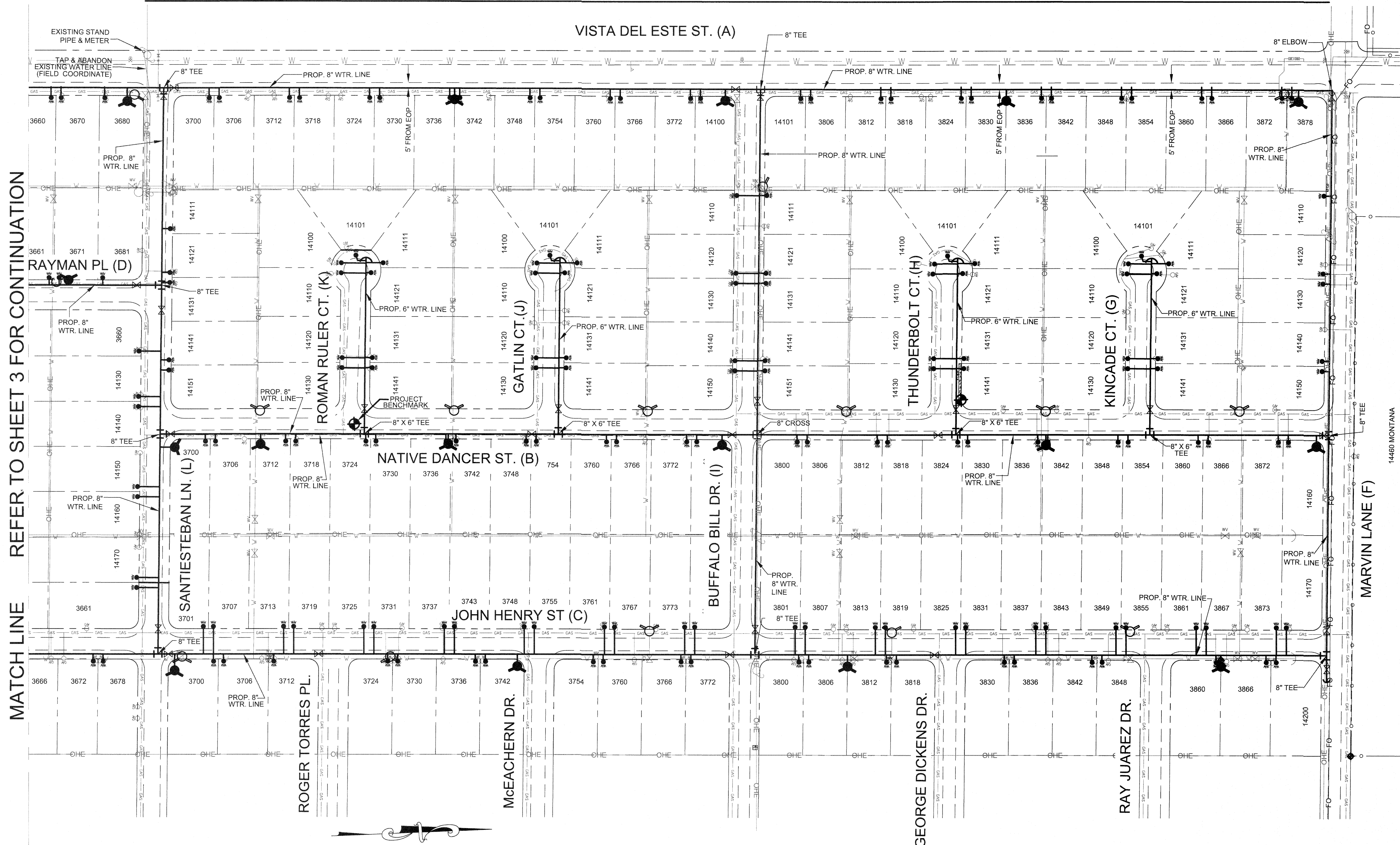
- NOTES
1. ALL PROPOSED WATER LINES TO BE 5 FEET FROM EDGE OF PAVEMENT (EOP).
 2. CONTRACTOR IS RESPONSIBLE FOR MAINTAINING SERVICE TO ALL RESIDENTS AT ALL TIMES OF PROJECT.
 3. CONTRACTOR SHALL COORDINATE WITH ALL OWNERS PRIOR TO WORKING IN THEIR PROPERTY.
 4. CONTRACTOR SHALL COORDINATE WITH COUNTY OPERATOR TO LOCATE ALL METERS PRIOR TO COMMENCING INSTALLATIONS.
 5. CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING THE NEW SERVICE CONNECTIONS TO THE OWNERS EXISTING FACILITIES.

PLAN
SCALE: 1"=100'

LEGEND			
	EXISTING POWER POLE		PROPOSED CROSS
	EXISTING LIGHT POLE		PROPOSED TEE
	EXISTING SIGN		PROPOSED 90° BEND
	EXISTING WATER VALVE		PROPOSED PLUG
	EXISTING WATER METER		PROPOSED VALVE
	EXISTING FIRE HYDRANT		PROPOSED FIRE HYDRANT
	EXISTING WASTE WATER MANHOLE		PROPOSED WATER METER
	EXISTING TELEPHONE PEDESTAL		EXISTING TREE
	EXISTING MAILBOX		EXISTING GAS METER
	EXISTING CONTROL POINTS		STREET R.O.W. LINE
	STREET ADDRESS		EXISTING PAVEMENT
			EXISTING CABLE LINE
			EXISTING WATER LINE
			EXISTING GAS LINE
			EXISTING FENCE OR WALL
			EXISTING OVERHEAD ELECTRIC
			EXISTING FIBER OPTIC CABLE
			PROPOSED WATER LINE
			EXISTING LOT LINE

ENGINEER'S SEAL	BENCHMARKS	REFERENCES	BY
SCALE: 1"=100' HOR. VER. DATE 09/22/18 DESIGN BY F.H. DRAWN BY A.G. CHD. BY F.H. APPD. BY F.H.			
PROJECT NAME			
VISTA DEL ESTE WATER DISTRIBUTION SYSTEM			
COUNTY OF EL PASO PUBLIC WORKS DEPARTMENT			
SHEET TITLE			
PLAN			
SHEET			
3 OF 31			

VISTA DEL ESTE - WATER DISTRIBUTION SYSTEM



MATCH LINE REFER TO SHEET 3 FOR CONTINUATION

- NOTES
- ALL PROPOSED WATER LINES TO BE 5 FEET FROM EDGE OF PAVEMENT (EOP).
 - CONTRACTOR IS RESPONSIBLE FOR MAINTAINING SERVICE TO ALL RESIDENTS AT ALL TIMES OF PROJECT.
 - CONTRACTOR SHALL COORDINATE WITH ALL OWNERS PRIOR TO WORKING IN THEIR PROPERTY.
 - CONTRACTOR SHALL COORDINATE WITH COUNTY OPERATOR TO LOCATE ALL METERS PRIOR TO COMMENCING INSTALLATIONS.
 - CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING THE NEW SERVICE CONNECTIONS TO THE OWNERS EXISTING FACILITIES.

PLAN
SCALE: 1"=100'

LEGEND

	EXISTING POWER POLE		STREET R.O.W. LINE		PROPOSED CROSS
	EXISTING LIGHT POLE		EXISTING PAVEMENT		PROPOSED TEE
	EXISTING SIGN		EXISTING CABLE LINE		PROPOSED 90° BEND
	EXISTING WATER VALVE		EXISTING WATER LINE		PROPOSED PLUG
	EXISTING WATER METER		EXISTING GAS LINE		PROPOSED VALVE
	EXISTING FIRE HYDRANT		EXISTING FENCE OR WALL		PROPOSED FIRE HYDRANT
	EXISTING WASTE WATER MANHOLE		EXISTING OVERHEAD ELECTRIC		PROPOSED WATER METER
	EXISTING TELEPHONE PEDESTAL		EXISTING FIBER OPTIC CABLE		EXISTING TREE
	EXISTING MAILBOX		PROPOSED WATER LINE		EXISTING GAS METER
	EXISTING CONTROL POINTS		EXISTING LOT LINE		
	XXXX STREET ADDRESS				

ENGINEER'S SEAL
 ENGINEER
 FERNANDO TORRES
 1025-27
 PROFESSIONAL ENGINEER
 STATE OF TEXAS

SCALE: 1"=100'
 HOR: VER:
 DATE: 09/12/18
 DESIGN BY: F.H.
 DRAWN BY: A.G.
 CHECKED BY: F.H.
 APP'D. BY: F.H.

PROJECT NAME
**VISTA DELESTE
 WATER DISTRIBUTION SYSTEM**

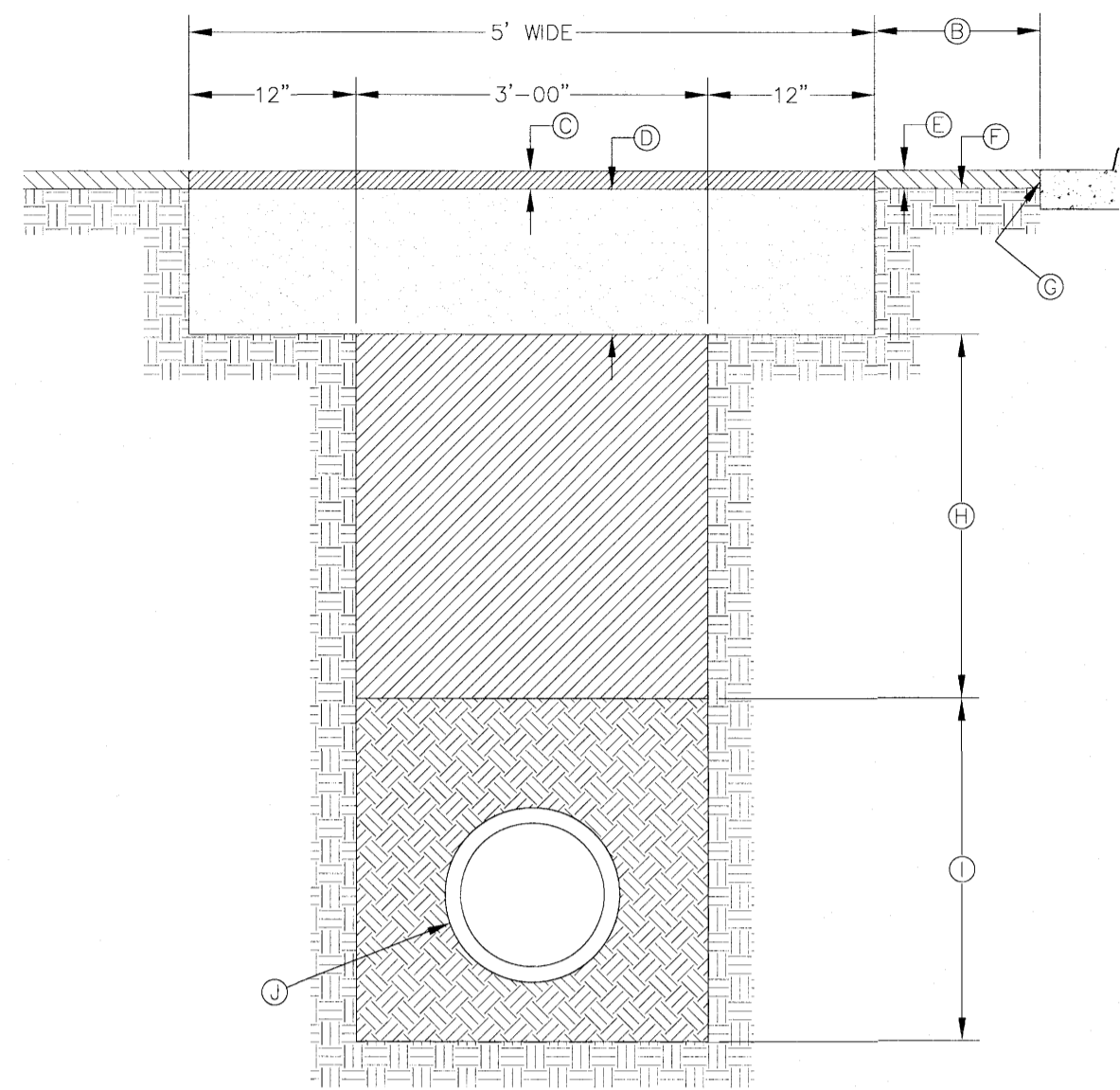
COUNTY OF EL PASO
 PUBLIC WORKS DEPARTMENT

SHEET TITLE
PLAN

SHEET
 4 OF 31

REFERENCES --- BENCHMARKS
 BENCHMARKS
 BRASS CAP IN CONC. N: 106681406 E: 79800271 ELEV: 404.563

DATE
 REVISIONS
 BY

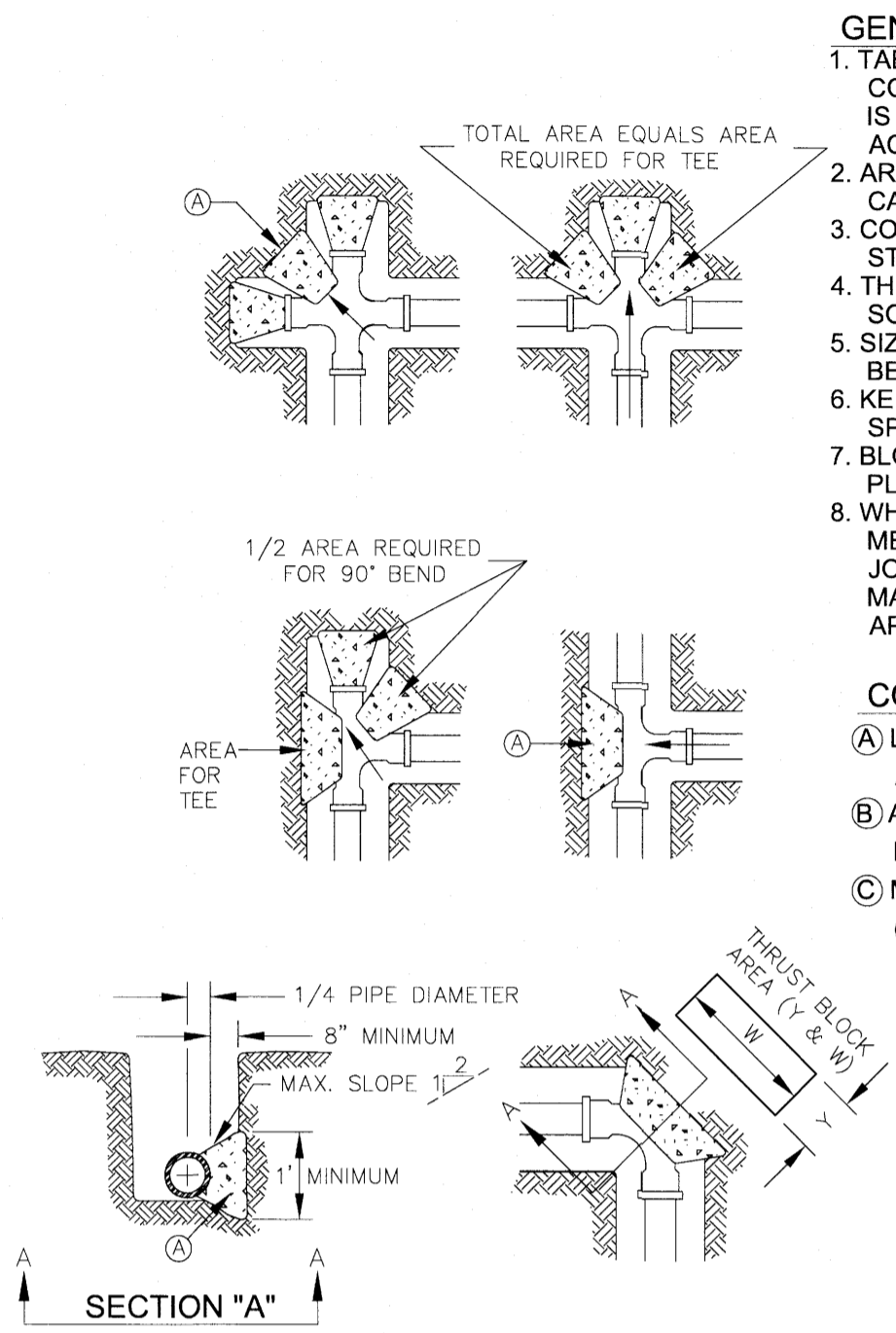


- GENERAL NOTES:**
1. ALL ASPHALT CUTS MUST BE SAW CUT.
 2. SOIL CEMENT SLURRY SHALL BE ALLOWED TO CURE BEFORE PAVING OR OPENING TO ALL TRAFFIC. (24 HR MIN.)
 3. CONTRACTOR SHALL PROVIDE METAL PLATES FOR OPEN TRENCHES DURING CURING TIME.

CONSTRUCTION KEY NOTES:

- A REFER TO SPECS FOR LIMIT OF PAVING WIDTH.
- B DIMENSION VARIES. WHERE GUTTER FACE, ETC. IS WITHIN 3' OF SAW CUT EDGE, CONTRACTOR SHALL REMOVE & REPLACE EXISTING HMAC IN THIS AREA.
- C 2" ASPHALT MIN. TXDOT TYPE C
- D 12" THICK SOIL CEMENT BACKFILL (2 SACK PER C.Y. OF SOIL).
- E EXISTING HMAC-THICKNESS MAY VARY.
- F EXISTING BASE COURSE-THICKNESS MAY VARY.
- G EXISTING GUTTER FACE, EDGE OF PAVEMENT OR BEGINNING OF SHOULDER.
- H BACKFILL DEPTH VARIES. REFER TO REQUIREMENTS LISTED IN EMBEDMENT DETAILS (DETAIL 171 THRU DETAIL 173).
- I PIPE BEDDING AS SPECIFIED, REFER TO APPROPRIATE EMBEDMENT DETAIL (DETAIL 171 THRU DETAIL 173).
- J APPROVED PIPE.

PAVEMENT REPLACEMENT
N.T.S.



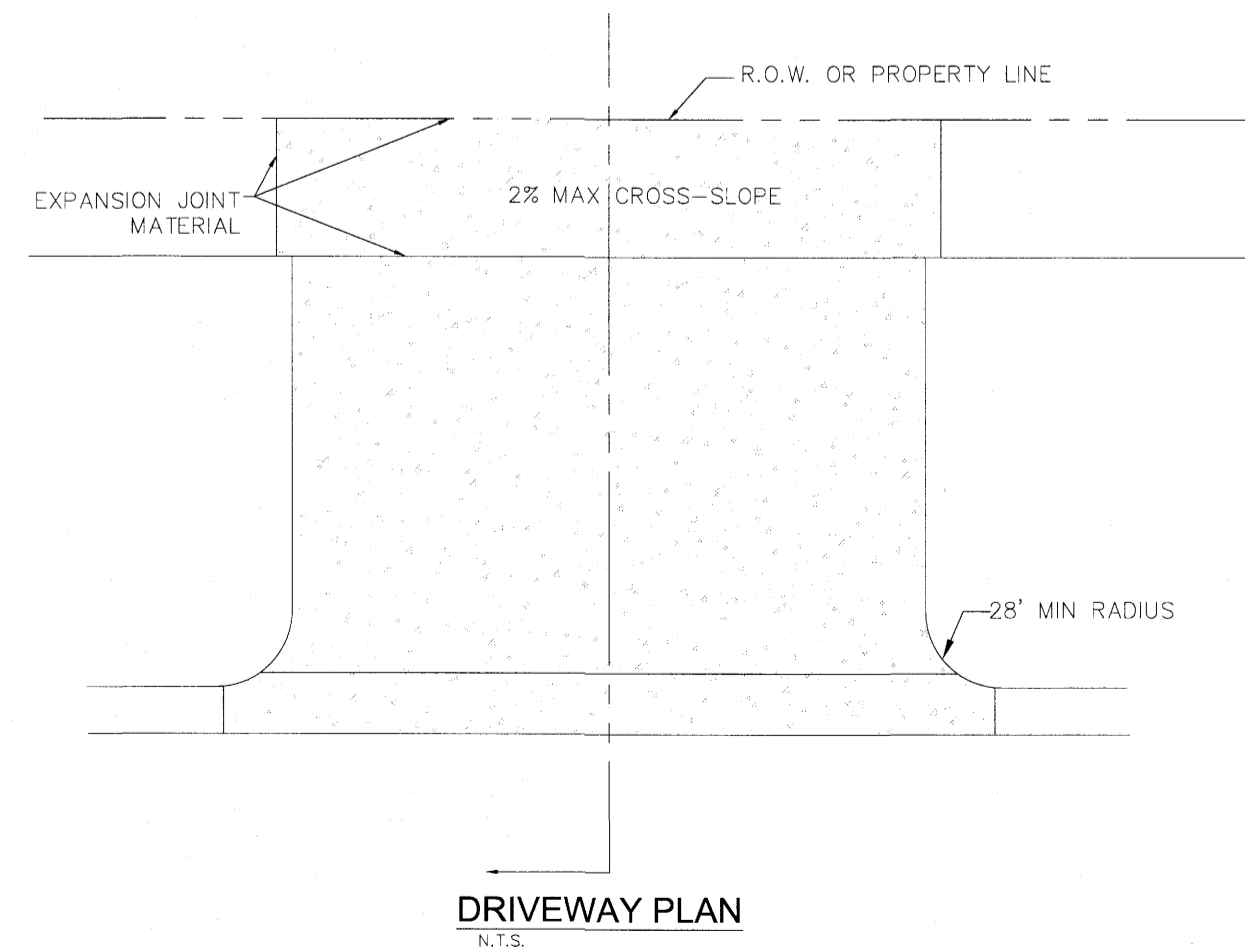
CONCRETE THRUST BLOCKING
N.T.S.

- GENERAL NOTES:**
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.
 8. WHEN NECESSARY ADDITIONAL THRUST RESTRAINT METHODS MAY BE USED, SUCH AS MECHANICAL JOINT RESTRAINTS, TIE-RODS (INSTALLED PER MANUFACTURERS' RECOMMENDATIONS) OR OTHER APPROVED METHODS.

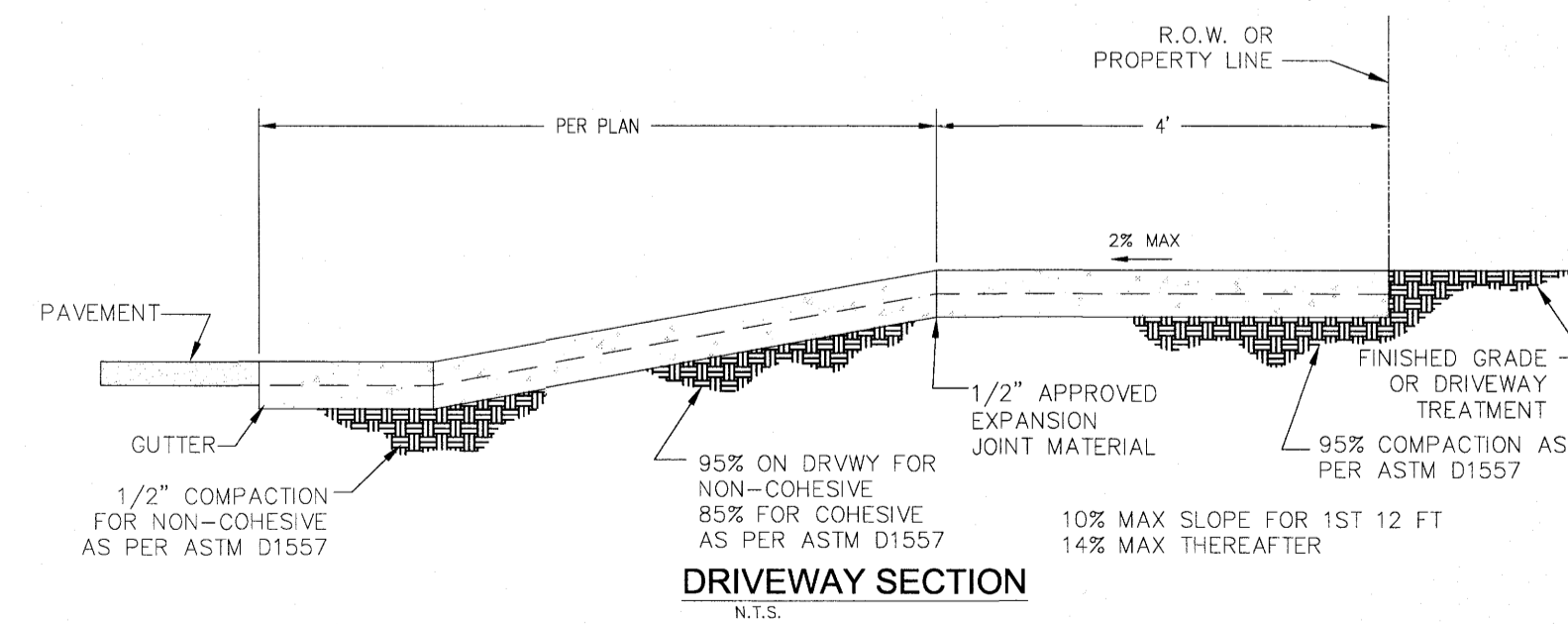
CONSTRUCTION KEY NOTES:

- 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:

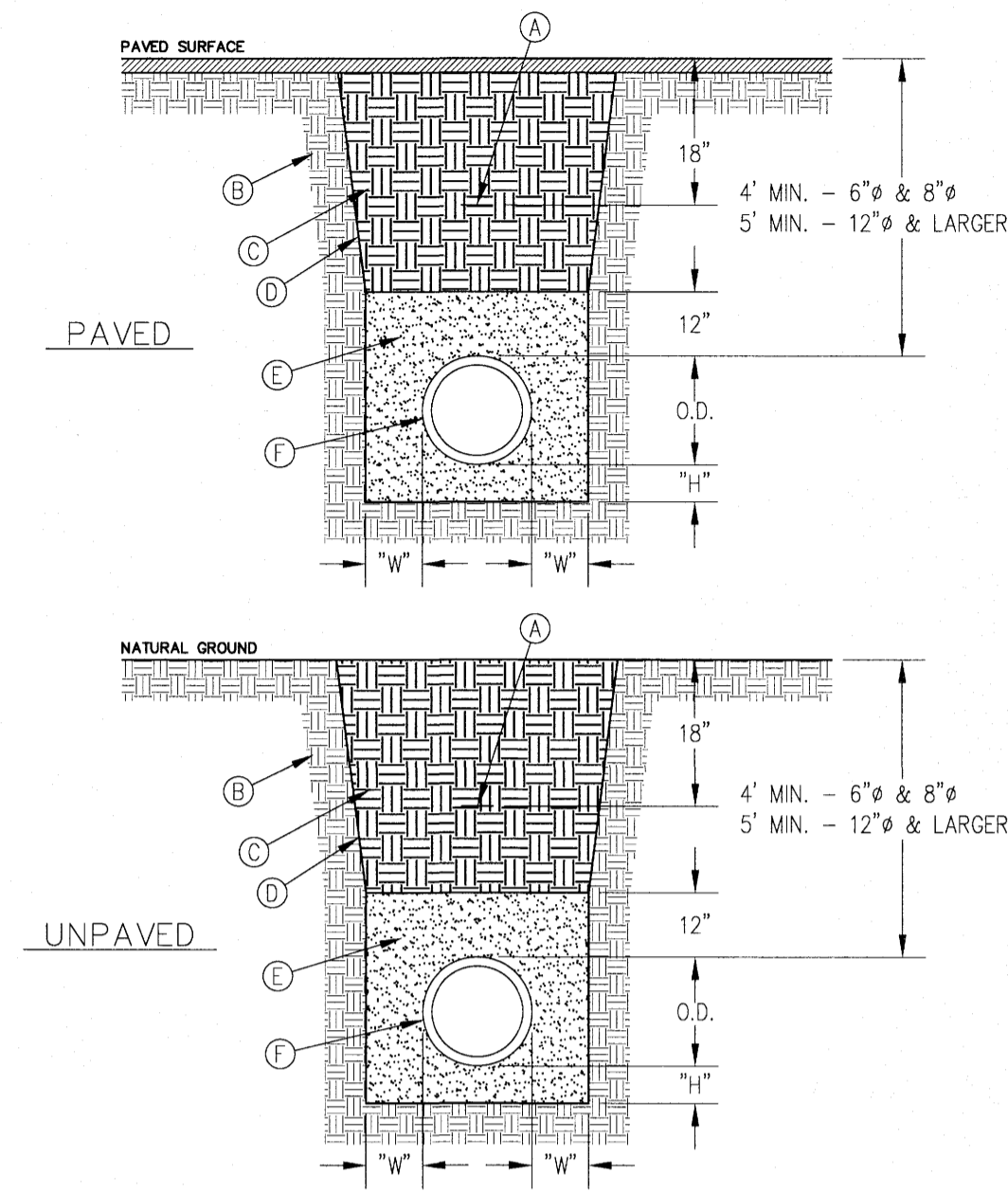
PIPE SIZE	WATER PIPE	
	TEE, DEAD END 90° BEND	45° AND 22 1/2° BENDS
4" & LESS	3 SQ. FEET	3 SQ. FEET
6"	4 SQ. FEET	3 SQ. FEET
8"	6 SQ. FEET	3 SQ. FEET
10"	9 SQ. FEET	5 SQ. FEET
12"	13 SQ. FEET	7 SQ. FEET
16"	23 SQ. FEET	12 SQ. FEET
18"	29 SQ. FEET	15 SQ. FEET



DRIVEWAY PLAN
N.T.S.



DRIVEWAY SECTION
N.T.S.



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

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 PROCTOR.
(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 "H"
6" - 30" 4"
GREATER THAN 30" 6"
PIPE DIAMETER "W"
6" - 30" 8"
GREATER THAN 30" 12"

BENCHMARKS: ---

ENGINEER'S SEAL

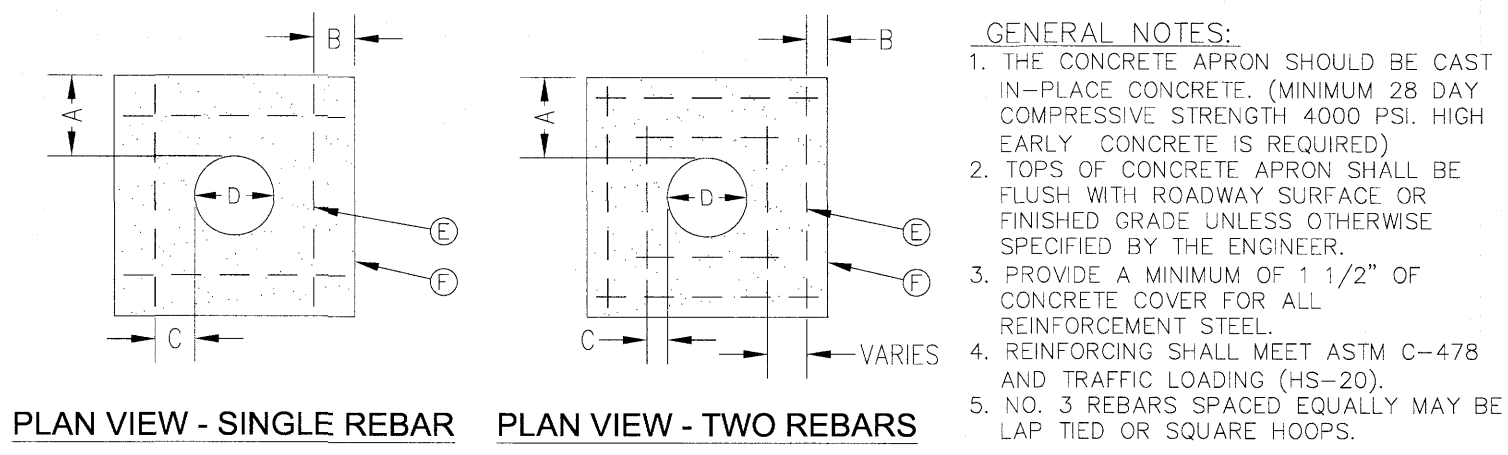
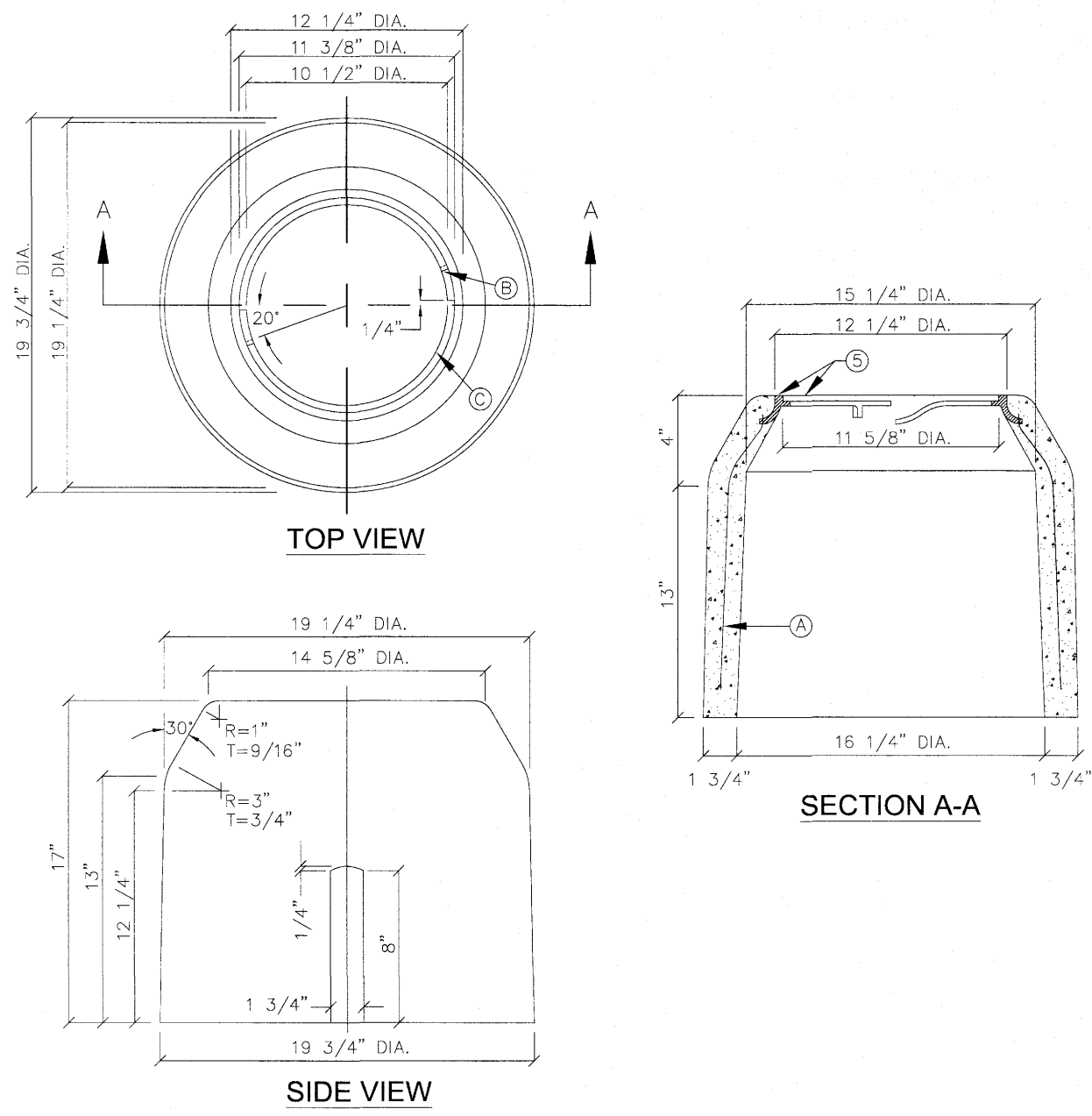
SCALE: N.T.S.

PROJECT NAME: VISTA DEL ESTE WATER DISTRIBUTION SYSTEM

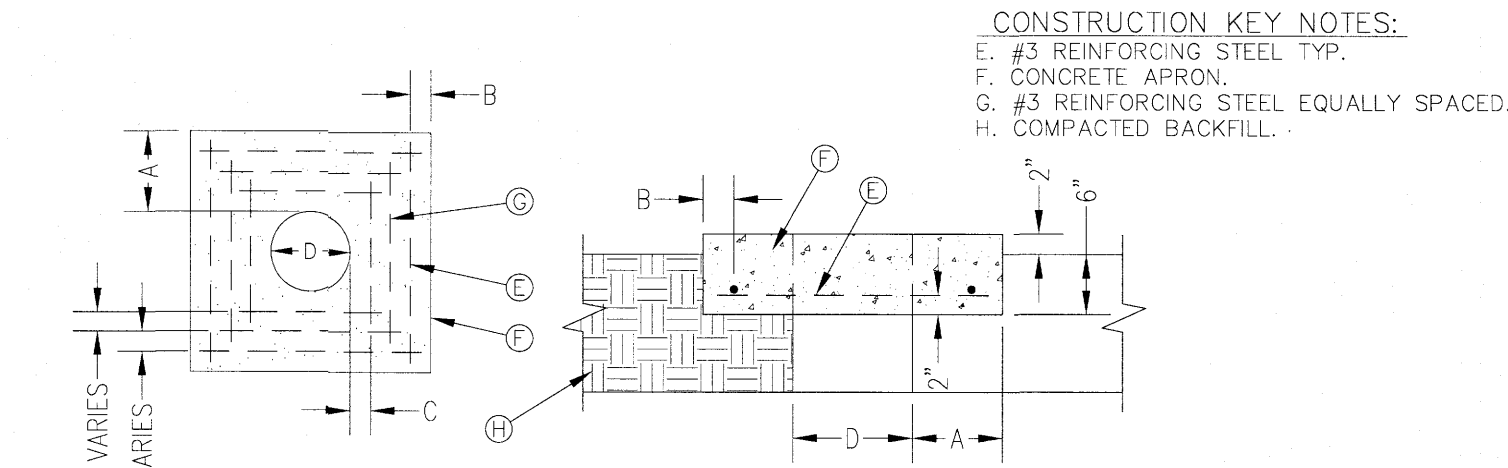
COUNTY OF EL PASO PUBLIC WORKS DEPARTMENT

SHEET TITLE: DETAILS

SHEET 5 OF 31



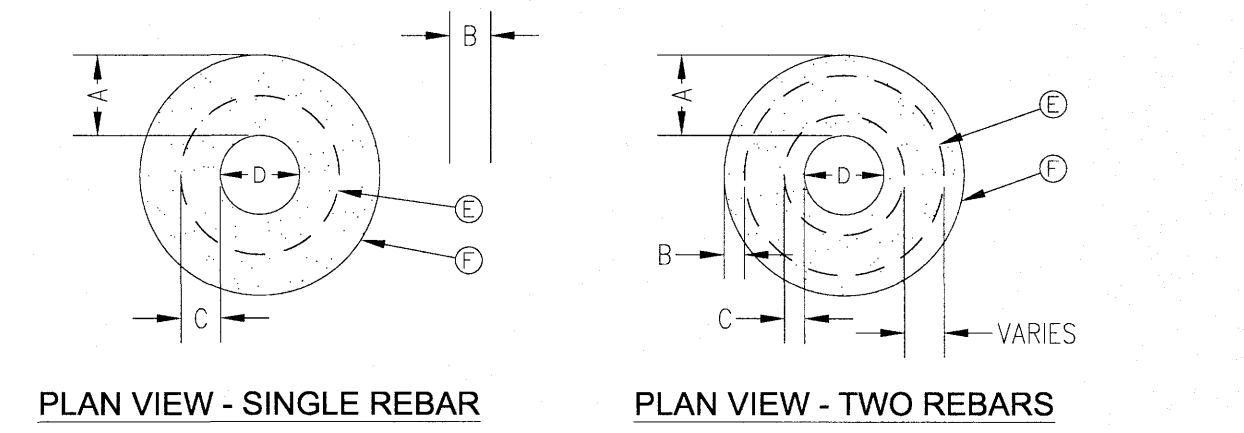
GENERAL NOTES:
 1. THE CONCRETE APRON SHOULD BE CAST IN-PLACE CONCRETE. (MINIMUM 28 DAY COMPRESSIVE STRENGTH 4000 PSI. HIGH EARLY CONCRETE IS REQUIRED)
 2. TOPS OF CONCRETE APRON SHALL BE FLUSH WITH ROADWAY SURFACE OR FINISHED GRADE UNLESS OTHERWISE SPECIFIED BY THE ENGINEER.
 3. PROVIDE A MINIMUM OF 1 1/2" OF CONCRETE COVER FOR ALL REINFORCEMENT STEEL.
 4. REINFORCING SHALL MEET ASTM C-478 AND TRAFFIC LOADING (HS-20).
 5. NO. 3 REBARS SPACED EQUALLY MAY BE LAP TIED OR SQUARE HOOPS.



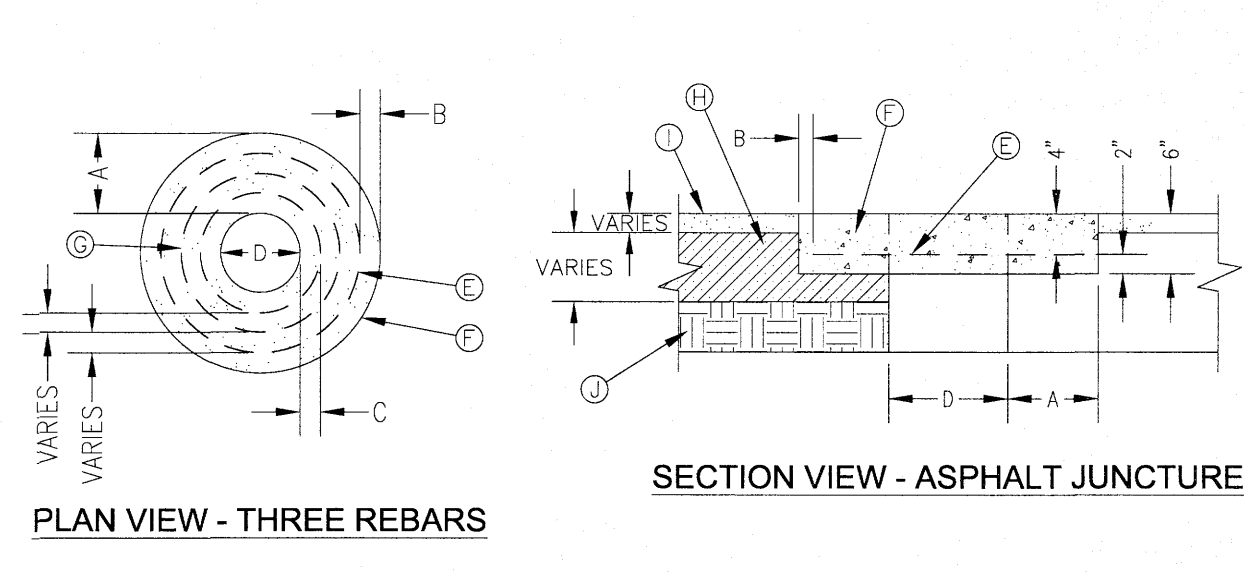
CONSTRUCTION KEY NOTES:
 E. #3 REINFORCING STEEL TYP.
 F. CONCRETE APRON.
 G. #3 REINFORCING STEEL EQUALLY SPACED.
 H. COMPACTED BACKFILL.

"D" DIAMETER OF PENETRATION	NUMBER OF #3 REINFORCING STEEL BARS	"A" MINIMUM CONCRETE HORIZONTAL DIMENSION FROM PENETRATION	"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	4"	1 1/2"	4 1/2"
6.1" TO 18"	2	6"	1 1/2"	1 1/2"
18.1" AND OVER	3	8"	1 1/2"	1 1/2"

CONCRETE APRON INSTALLATION IN NON PAVED AREAS
 N.T.S.



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.
 I. PAVEMENT.
 J. COMPACTED SUBGRADE.

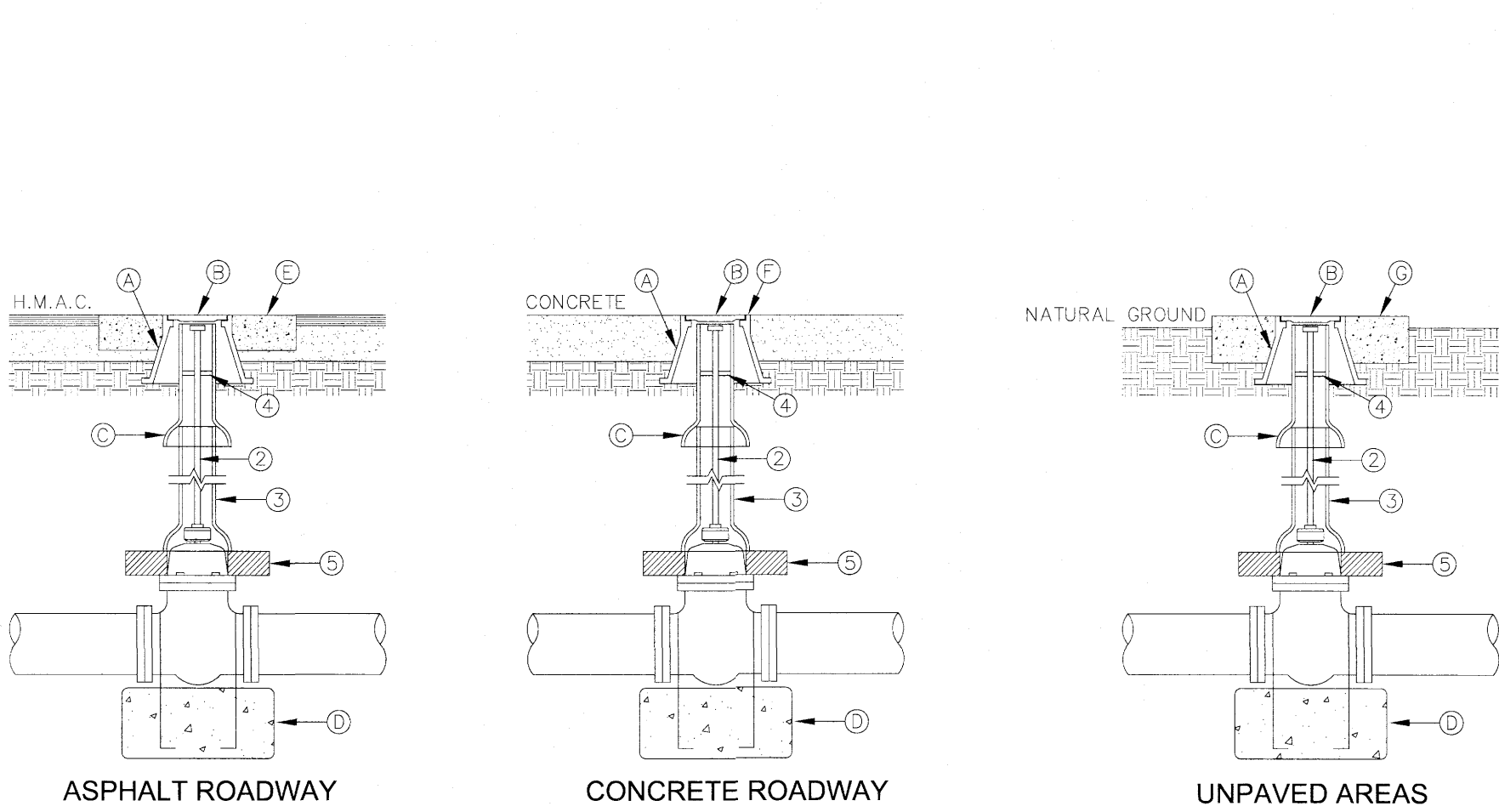
"D" DIAMETER OF PENETRATION	NUMBER OF #3 REINFORCING STEEL BARS	"A" MINIMUM CONCRETE HORIZONTAL DIMENSION FROM PENETRATION	"B" MINIMUM CLEARANCE FROM EDGE OF CONCRETE COLLAR TO CENTER OF NEAREST REBAR	"C" MINIMUM CLEARANCE FROM PENETRATION EDGE TO CENTER OF NEAREST REBAR
0" TO 6"	1	6"	1 1/2"	4 1/2"
6.1" TO 18"	2	6"	1 1/2"	1 1/2"
18.1" AND OVER	3	9"	1 1/2"	1 1/2"

CONCRETE COLLAR INSTALLATION IN PAVED AREAS
 N.T.S.

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 300 AND 301.
 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.
 7. 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

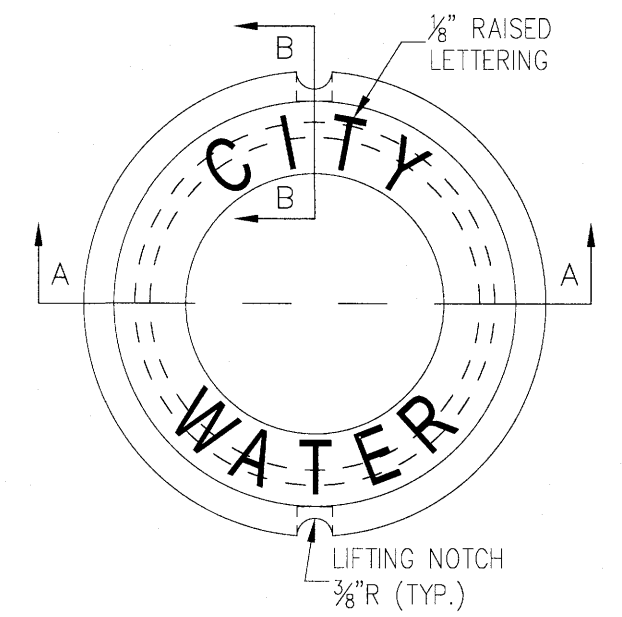
METER BOX TYPE "A" SERVICE INSTALLATION
 N.T.S.



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. 1/2" THICK STEEL TRASH RING VALVE BOX INSIDE DIAMETER MINUS 1/8".
 5. MINIMUM 2 1/2" 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.

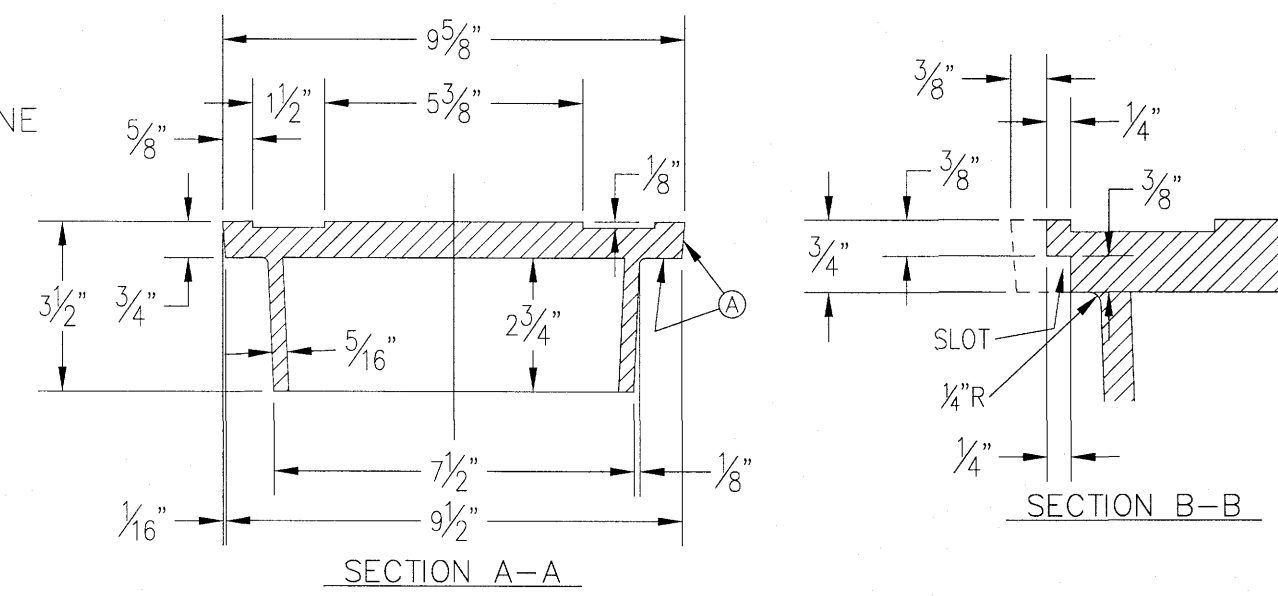
CONSTRUCTION KEY NOTES:
 A. BONNET BOX (SEE DETAIL 268).
 B. BONNET BOX COVER (SEE DETAILS 269-1 & 269-2)
 C. FINAL EXTENSION TO BONNET BOX SHALL BE WITH BELL AND SPIGOT ENDS (CLAY OR SDR 35 P.V.C. SPOOL).
 D. CONCRETE VALVE ANCHOR (SEE DETAIL 271).
 E. CONCRETE COLLAR (SEE DET 184-1) FLUSH WITH TOP 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.

GATE VALVE INSTALLATION
 N.T.S.

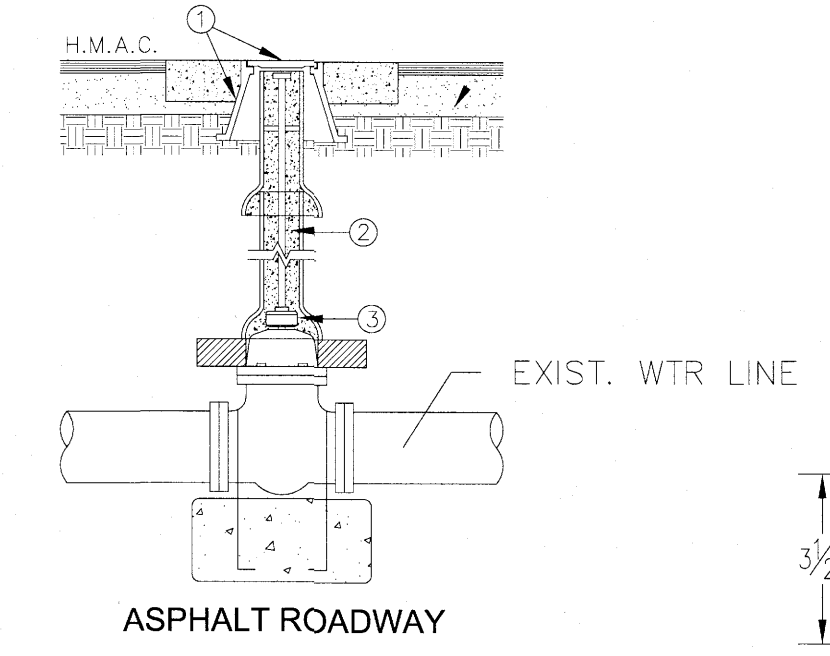


GENERAL NOTES:
 1. CASTINGS TO SMOOTH AND VOID OF AIR HOLES.
 2. WEIGHT OF COVER IS 18 POUNDS.

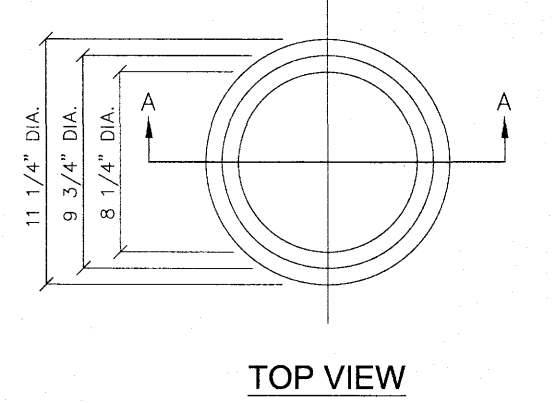
CONSTRUCTION KEY NOTES:
 A. TO BE ROUGH GROUND OF ANY IRREGULARITIES THAT WOULD PREVENT A SNUG FIT.



ABANDONMENT OF EXISTING VALVES
 N.T.S.



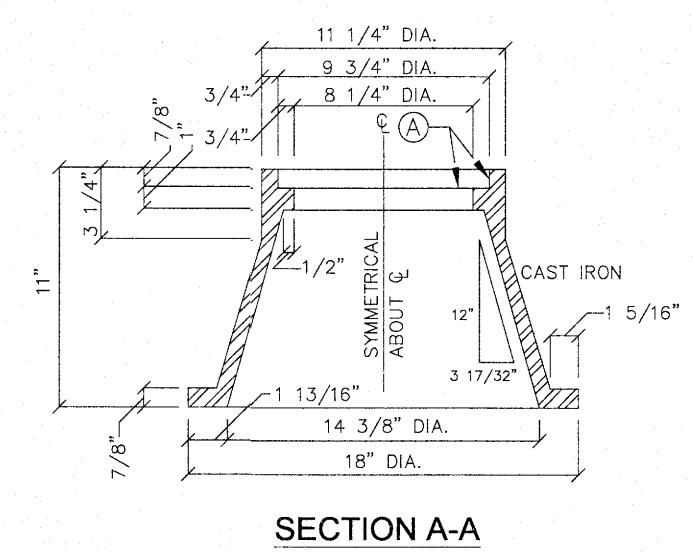
GENERAL NOTES:
 1. REMOVE AND SALVAGE BONNET BOX AND COVER.
 2. FILL STEM WITH CONCRETE.
 3. CLOSE EXISTING VALVE



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.

BONNET BOX



ENGINEER OF SEAL: **FERNANDO HERNANDEZ, JR.** LICENSED PROFESSIONAL ENGINEER 1024527

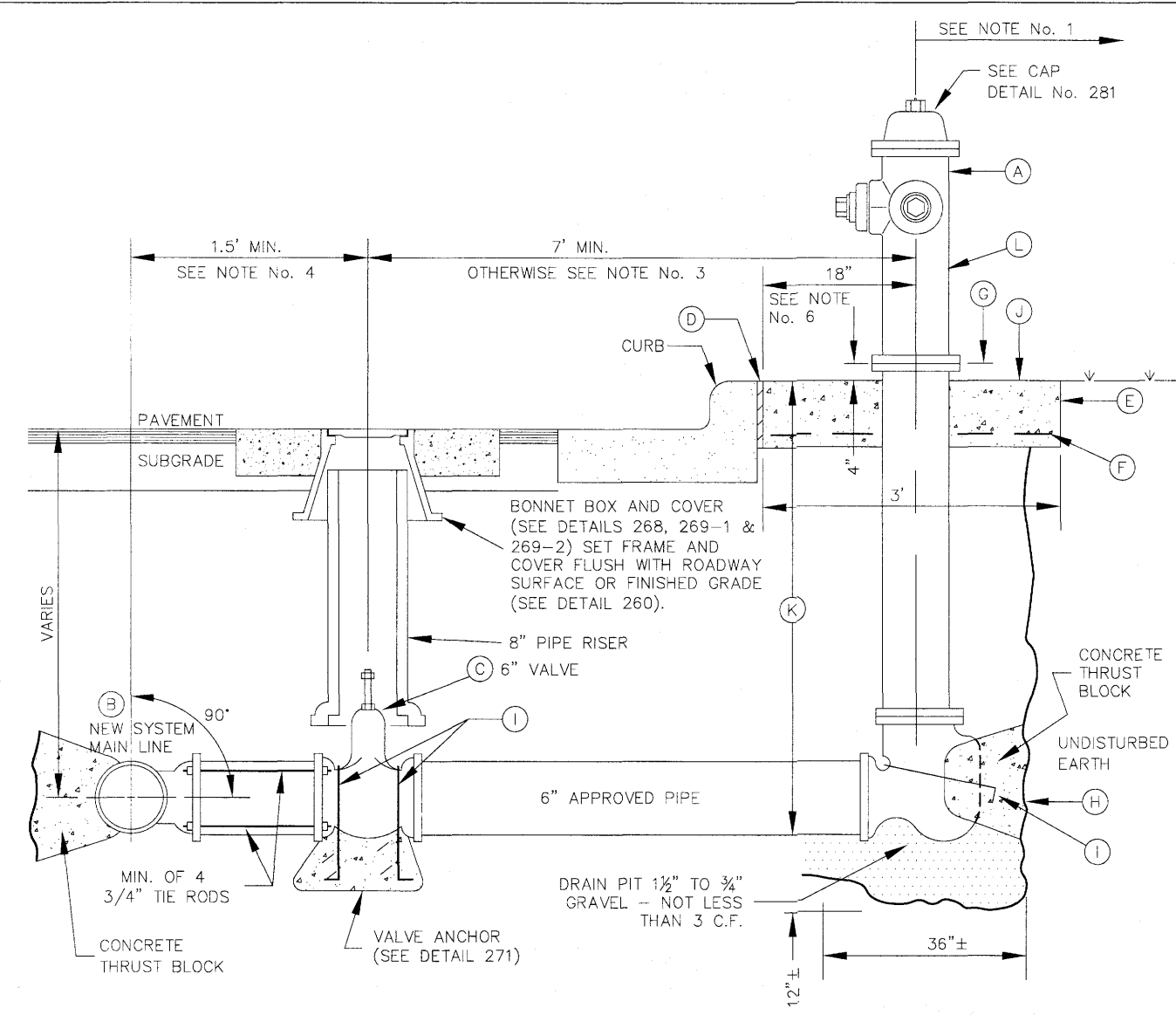
SCALE: N.T.S.
 HOR. VER.
 DATE: 09/12/18
 DESIGN BY: F.H.
 DRAWN BY: A.G.
 CHECKED BY: F.H.
 APPD. BY: F.H.

PROJECT NAME: **VISTA DEL ESTE WATER DISTRIBUTION SYSTEM**

COUNTY OF EL PASO PUBLIC WORKS DEPARTMENT

SHEET TITLE: **DETAILS**

SHEET 6 OF 31



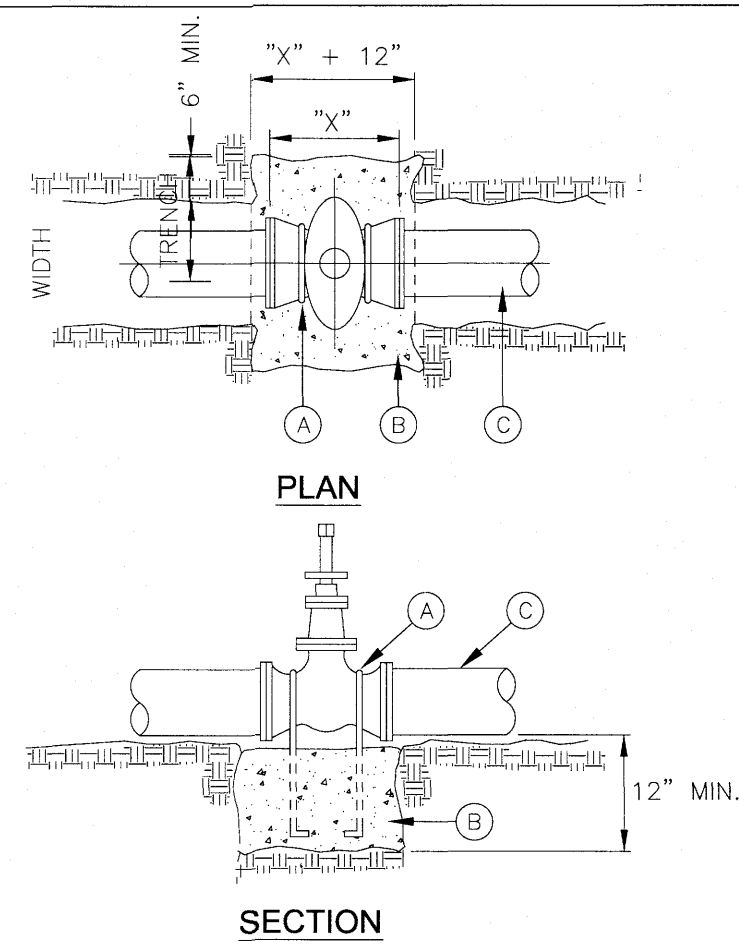
FIRE HYDRANT INSTALLATION
N.T.S.

GENERAL NOTES:

- NO OBSTRUCTIONS WILL BE PERMITTED WITHIN 5 FT. IN ALL DIRECTIONS OF FIRE HYDRANT (PER EL PASO MUNICIPAL CODE, TITLE 12). FIRE HYDRANT SHALL NOT BE PLACED IN WHEEL CHAIR RAMP OR DRIVEWAY.
- 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 CASES.
- WHERE DISTANCE IS LESS THAN 7', HYDRANT SHALL BE INSTALLED IN ACCORDANCE WITH DETAIL No. 282.
- VALVE MAY BE CONNECTED TO TEE AT MAIN LINE. USE FLANGED MECHANICAL JOINT ENDS. WHERE SPOOL IS REQUIRED BETWEEN TEE AND VALVE, USE FLANGED MECHANICAL ENDS WITH 3/4" DIAMETER TIE RODS.
- COMPLY WITH REQUIREMENTS OF AWWA C-502, DRY BARREL FIRE HYDRANTS AND AWWA C-550, PROTECTIVE EPOXY INTERIOR COATINGS FOR VALVES AND HYDRANTS.
- WHEN INSTALLATION IS WITHIN TxDOT RIGHT OF WAY, HYDRANT SHALL NOT BE PLACED IN SIDEWALK AREA OR ANY CLOSER THAN 5' FROM BACK OF CURB.

CONSTRUCTION KEY NOTES:

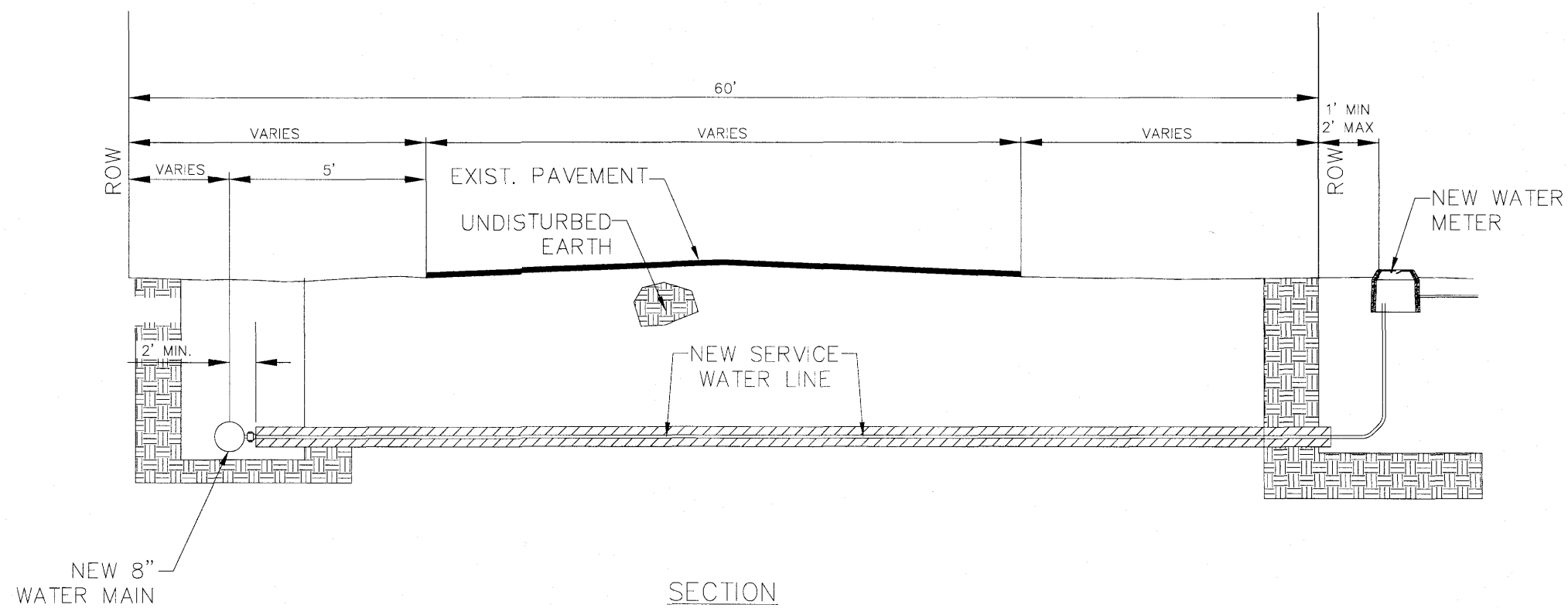
- FIRE HYDRANT AS PER EL PASO CITY SPEC'S.
- EXISTING FIRE HYDRANTS ARE TO BE RELOCATED AND CONNECTED INTO THE NEW SYSTEM.
- 6" VALVE TO BE INSTALLED.
- 1/2" PREMOLDED EXPANSION JOINT WITH 1" TOP FILLER.
- 3'x3'x6" CONC. SQ. PAD, TO BE CONSTRUCTED AROUND FIRE HYDRANT'S CENTER LINE WHEN NOT LOCATED WITHIN SIDEWALK OR CONC. AREA.
- #10; 6/6 WWF.
- CONTROLLED ELEVATION LINE, LEVEL IN ALL DIRECTIONS. CONTRACTOR SHALL BE RESPONSIBLE FOR SETTING TOP FLANGE OF THE HYDRANT TO CONTROLLED ELEVATION.
- CONC. THRUST BLOCK, APPROX. 2'x2'x3' TO BE POURED AGAINST UNDISTURBED EARTH, F.H. WEEP HOLE MUST BE UNOBSTRUCTED.
- 2"x1/4" STEEL ANCHOR PINS.
- 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.
- MAXIMUM OF ONE (1) SPOOL EXTENSION ALLOWED TO MAINTAIN THE CONTROLLED ELEVATION LINE TO TOP OF SLAB. ADDITIONAL ADJUSTMENT MUST BE MADE WITH OFFSETS & FITTINGS AS NEEDED.
- REQUIRED - DAVIDSON ANTI TERRORISM CORROSION RESISTANT VALVE KIT (DATV).



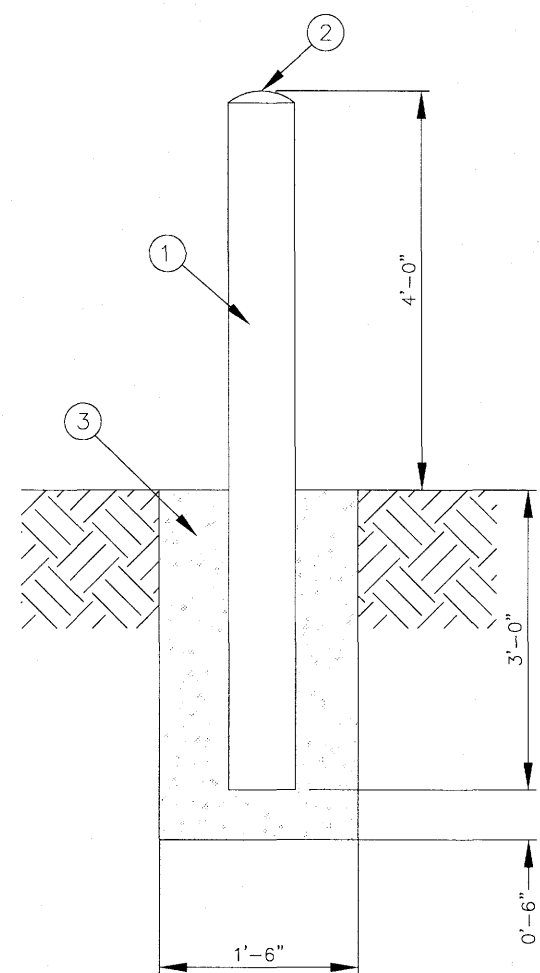
VALVE ANCHOR
N.T.S.

GENERAL NOTES:

- THE ENGINEER SHALL PROVIDE DESIGN FOR ALL VALVES GREATER THAN 12".
 - COMPLY WITH REQUIREMENTS OF AWWA C-550, PROTECTIVE EPOXY INTERIOR COATINGS FOR VALVES.
- CONSTRUCTION KEY NOTES:**
- TWO No. 5 REBAR HAIR PINS, PAINT UNEMBEDDED PORTION OF REBARS WITH TWO COATS OF COAL TAR EPOXY.
 - CONCRETE VALVE SUPPORT, 2500 PSI. CONCRETE.
 - APPROVED PIPE.



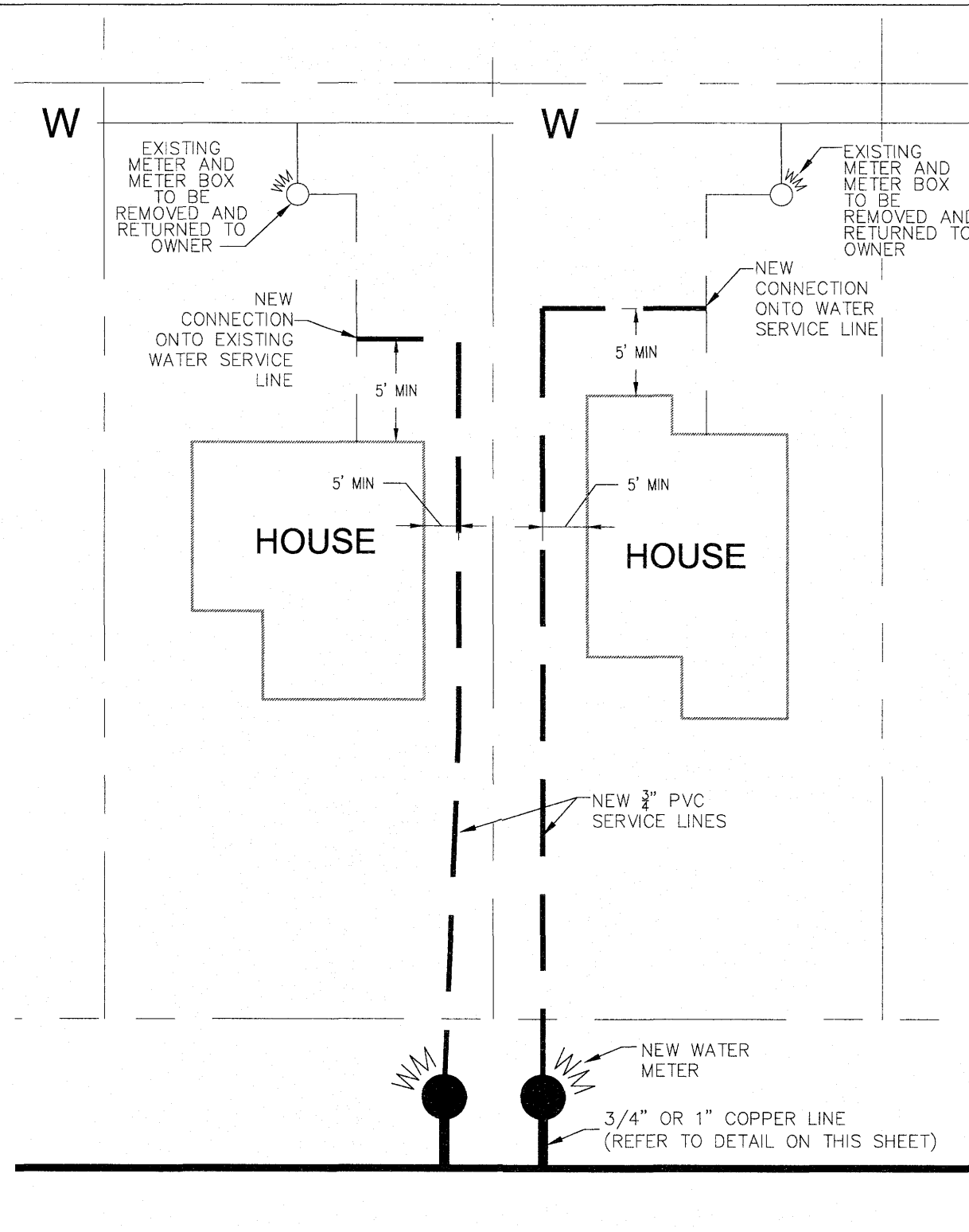
TYPICAL SERVICE TRENCH
N.T.S.



BOLLARD
N.T.S.

GENERAL NOTES:

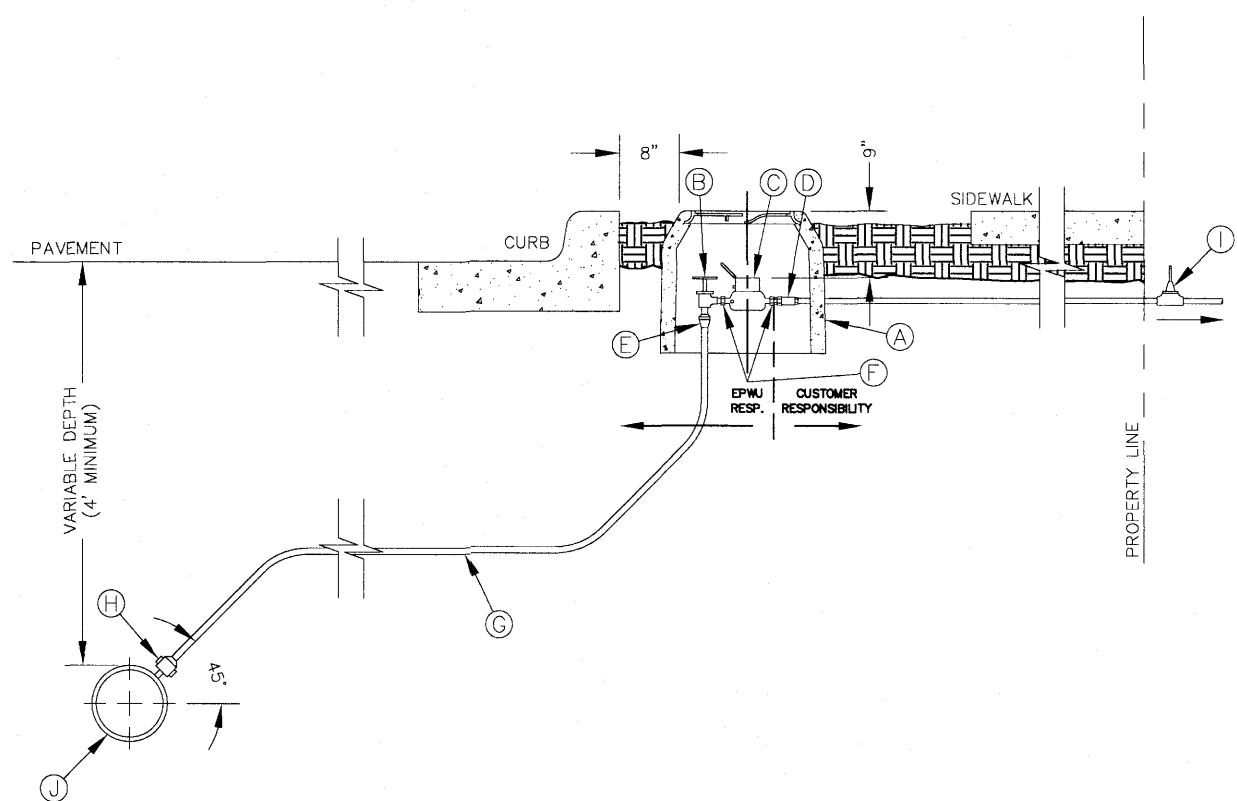
- 6" DIAMETER STEEL POST, FILL WITH CONCRETE AND PAINT WITH TWO COATS OF YELLOW REFLECTORIZED PAINT.
- CONCRETE DOME
- CONCRETE FILL, 3,000 P.S.I. (MIN.)



RESIDENT ROUTING DETAIL
N.T.S.

GENERAL NOTES:

- THE CONTRACTOR SHALL TRENCH THE PROPERTY TO ROUTE THE NEW WATER SERVICE TO AVOID INTERRUPTION OF EXISTING SERVICE.
- THE CONTRACTOR SHALL TRENCH AND INSTALL 3/4" SCHEDULE 40 PVC WATER SERVICE LINE TO MINIMUM DEPTH OF 24" AND MAXIMUM DEPTH OF 36" BELOW GRADE.
- THE CONTRACTOR SHALL COORDINATE FINAL ROUTE WITH RESIDENT PRIOR TO INSTALLATION.
- THE CONTRACTOR SHALL INSTALL NECESSARY FITTINGS AND CONNECTIONS TO THE EXISTING SERVICE LINE TO MAKE ADEQUATE TIE-IN INTO THE RESIDENTIAL SYSTEM.
- THE CONTRACTOR SHALL BACKFILL AND COMPACT TRENCH TO MINIMUM STANDARDS 90% COMPACTION IF UNDEVELOPED 95% COMPACTION IF UNDER ANY SURFACE.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING ALL LEAKS OR DAMAGES CAUSED TO THE EXISTING OR NEW SERVICE LINE THAT OCCUR DURING CONSTRUCTION PERIOD.
- CONTRACTOR SHALL COORDINATE THE FINAL LOCATION OF NEW WATER METER WITH PROPERTY OWNER, ENGINEER AND COUNTY.

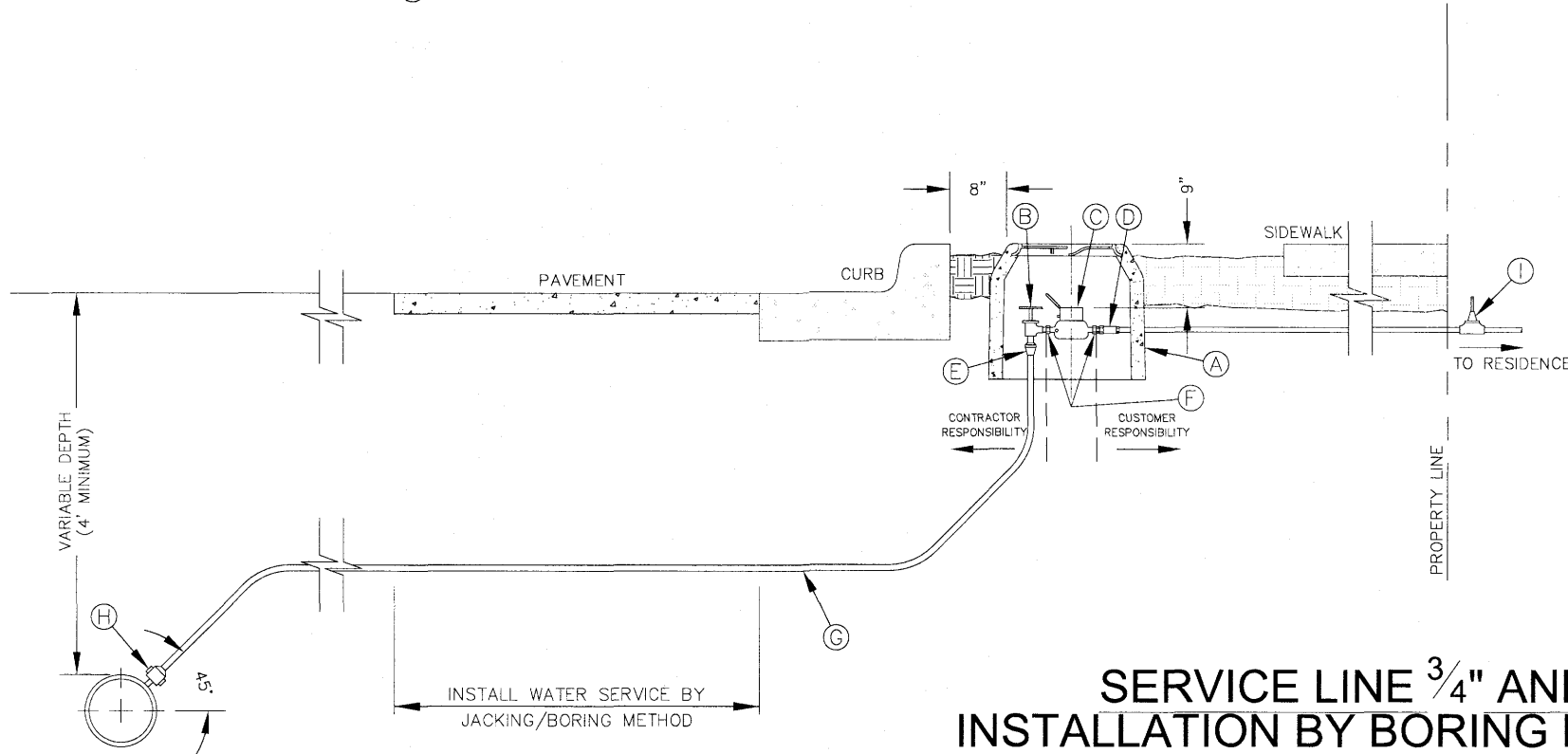


GENERAL NOTES:

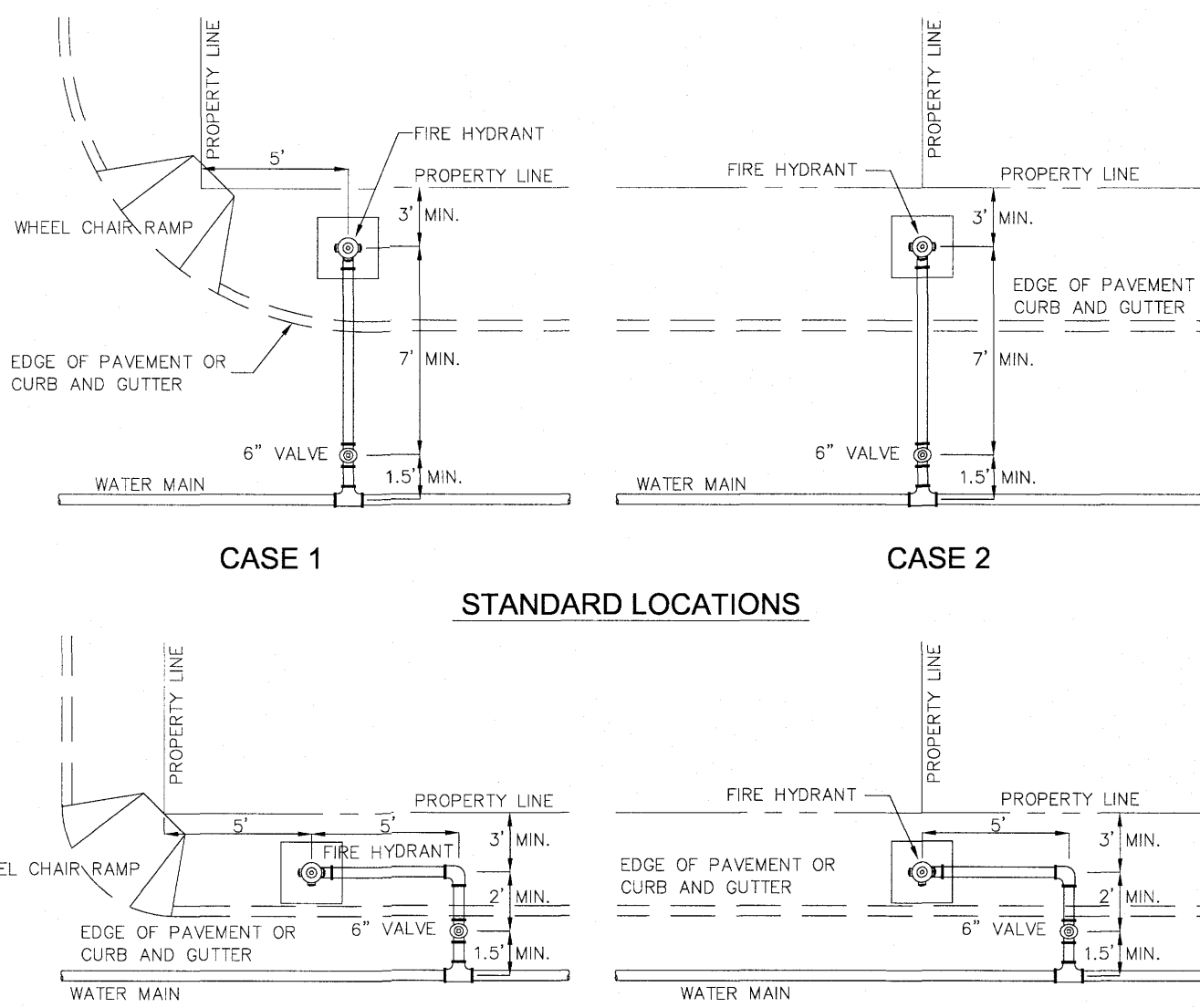
- DETAIL SHOWN FOR A 3/4" SERVICE. 1" SERVICE INSTALLATION IS SIMILAR EXCEPT FOR SIZES OF PIPE, FITTING, METER AND BOX (TYPE "B").
- WHERE NO CURB EXISTS, METER IS TO BE SET NEAR PROPERTY LINE OR AT DESIGNATED LOCATION.
- THE CONTRACTOR SHALL FURNISH AND INSTALL ALL NECESSARY PIPE, FITTINGS, AND METER BOXES REQUIRED. THE CONTRACTOR SHALL INSTALL ALL ITEMS NECESSARY TO CONNECT RESIDENTS. (TO BE FULLY FUNCTIONAL)
- NO SPLICING SHALL BE ALLOWED. FULL LENGTH OF PIPING SERVICE SHALL BE INSTALLED.
- THE CONTRACTOR SHALL FURNISH AND INSTALL THE METER.

CONSTRUCTION KEY NOTES:

- METER BOX TYPE "A" (SEE DETAILS 291 & 292) SHALL BE SET SLIGHTLY HIGHER THAN SURROUNDING GROUND OR AT CURB LEVEL.
- 3/4" ANGLE SERVICE VALVE.
- WATER METER (CENTER INSIDE METER BOX).
- WHEN REQUIRED BY EPWU, A DUAL CHECK BACKFLOW PREVENTER SHALL BE INSTALLED ON THE OUTLET SIDE OF THE METER.
- END FLARE OF SERVICE LINE.
- INLET AND OUTLET COUPLING.
- 3/4" COPPER SERVICE LINE (SEE NOTE 4).
- 5/8" X 3/4" CORPORATION STOP.
- PRESSURE REGULATOR SOMETIMES LOCATED NEAR THE RESIDENCE.
- WATER MAIN.



SERVICE LINE 3/4" AND 1" INSTALLATION BY BORING METHODS
N.T.S.



STANDARD LOCATIONS

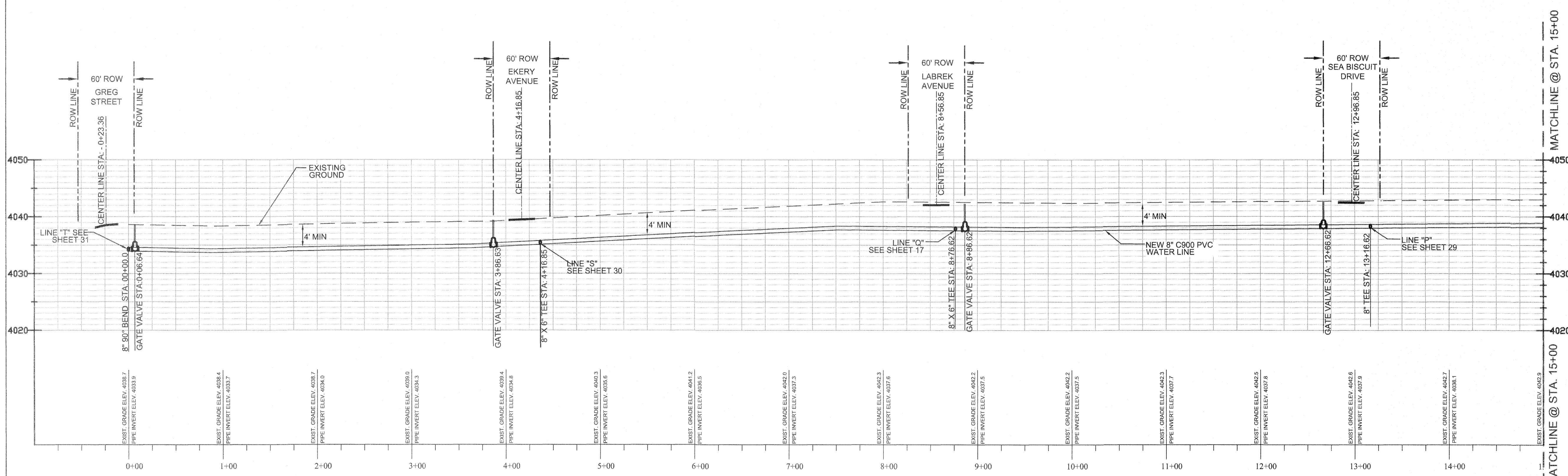
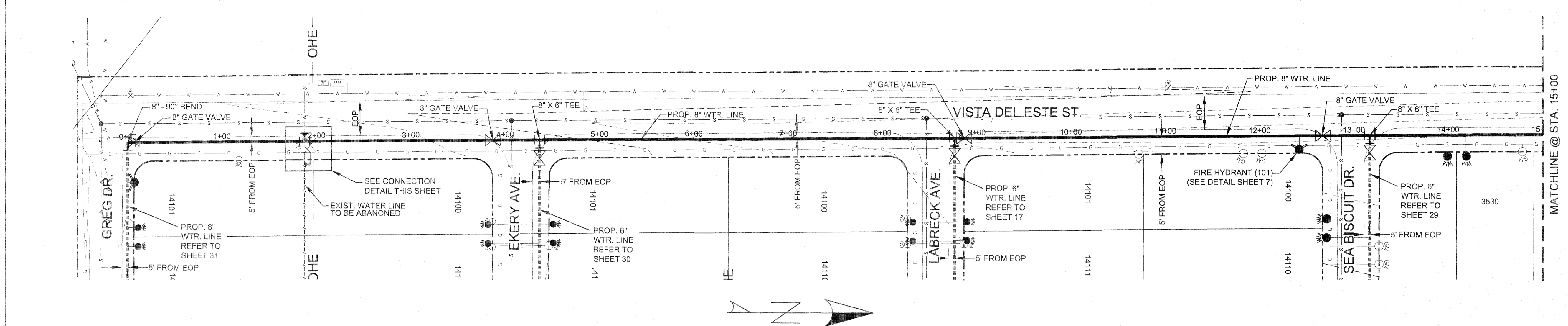
SPECIAL LOCATIONS

FIRE HYDRANT LOCATIONS
N.T.S.

GENERAL NOTES:

- FOR CASE 1 FIRE HYDRANT SHALL BE LOCATED AT A DISTANCE OF 5 FT. MINIMUM FROM THE PROPERTY LINE OR AT THE BEGINNING OF CURB RETURN.
- FOR CASE 2 FIRE HYDRANT SHALL BE LOCATED AT THE PROPERTY LINE COMMON TO ADJOINING LOTS.
- FOR CASE 3 AND IV WHERE THE DISTANCE BETWEEN THE VALVE AND THE HYDRANT IS LESS THAN 7 FT. PLACE HYDRANT AS SHOWN.
- FOR INSTALLATION OF FIRE HYDRANT SEE DETAIL 280-1 OR 280-2.
- A MINIMUM CLEARANCE OF 3 FT. WILL BE PROVIDED BETWEEN A FIRE HYDRANT AND A PERMANENT OBSTRUCTION (UTILITY POLE, LIGHT STANDARD, TRAFFIC SIGNAL, WHEEL CHAIR RAMP, FENCE PROTECTIVE POSTS, ETC.).
- WHEN INSTALLATION IS WITHIN TxDOT RIGHT OF WAY, HYDRANT SHALL NOT BE PLACED IN SIDEWALK AREA OR ANY CLOSER THAN 5' FROM BACK OF CURB.

ENCL. SHEET	REFERENCES	BENCHMARKS
SCALE: N.T.S.	DATE: 09/12/18	DESIGN BY: F.H.
DATE: 09/12/18	DRAWN BY: A.G.	CHECK BY: F.H.
DATE: 09/12/18	APP'D BY: F.H.	
PROJECT NAME: VISTA DEL ESTE WATER DISTRIBUTION SYSTEM		
SHEET TITLE: DETAILS		
SHEET 7 OF 31		

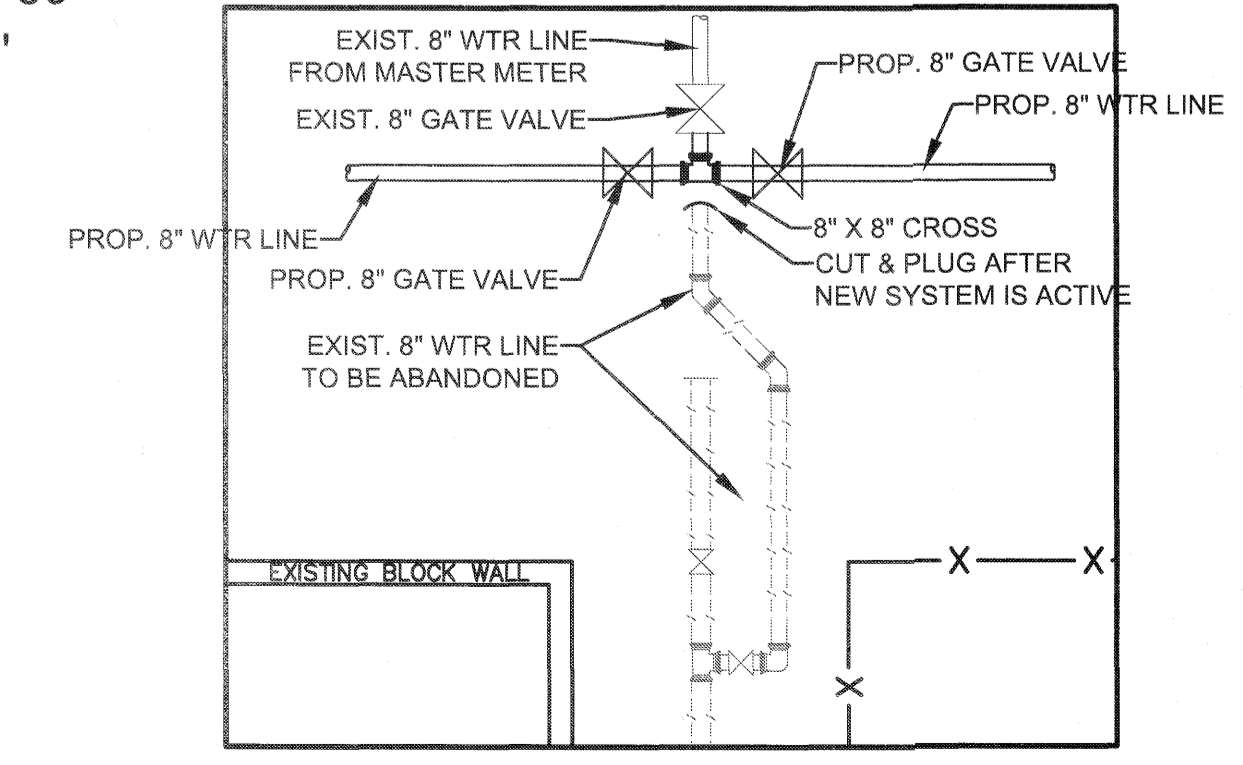


WATER LINE "A"

VISTA DEL ESTE STREET FROM GREG STREET TO MARVIN LANE

HORIZONTAL SCALE: 1"=60'

VERTICAL SCALE: 1"=10'



LEGEND

	EXISTING POWER POLE		STREET R.O.W. LINE		PROPOSED CROSS
	EXISTING LIGHT POLE		EXISTING EDGE OF PAVEMENT		PROPOSED TEE
	EXISTING SIGN		EXISTING CABLE LINE		PROPOSED 90° BEND
	EXISTING WATER VALVE		EXISTING WATER LINE		PROPOSED CAP
	EXISTING WATER METER		EXISTING GAS LINE		PROPOSED VALVE
	EXISTING FIRE HYDRANT		EXISTING FENCE OR WALL		PROPOSED FIRE HYDRANT
	EXISTING WASTE WATER MANHOLE		EXISTING OVERHEAD ELECTRIC		PROPOSED WATER METER
	EXISTING TELEPHONE PEDESTAL		EXISTING FIBER OPTIC CABLE		EXISTING TREE
	EXISTING MAILBOX		PROPOSED WATER LINE		EXISTING GAS METER
	EXISTING CONTROL POINTS		EXISTING LOT LINE		
	XXXX STREET ADDRESS				

- DIG TESS - 1-811
- EL PASO ELECTRIC CO. - 543-2047
- TEXAS GAS SERVICE - 544-6300
- AT&T - 1-800-398-8343
- TIME WARNER CABLE - 772-1123
- ONE CALL - 811 OR 1-800-344-8377
- E.P. COUNTY WATER - 855-1681
- E.P. NATURAL GAS - 471-0124
- SM & P - 1-866-861-7678
- AT&T FIBER OPTICS - 1-817-589-1056
- DELL TELEPHONE COOP INC - 1-800-245-2991
- ONEOK - 740-6512
- BUCKEYE GULF COAST PIPE LINES - 1-877-530-5685

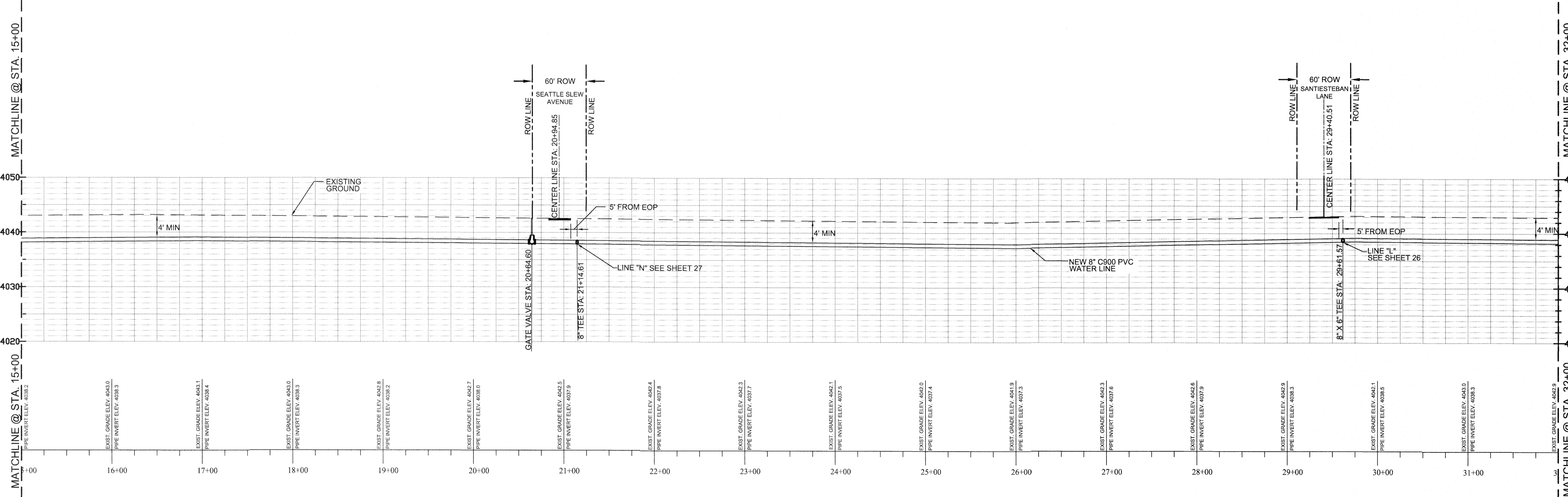
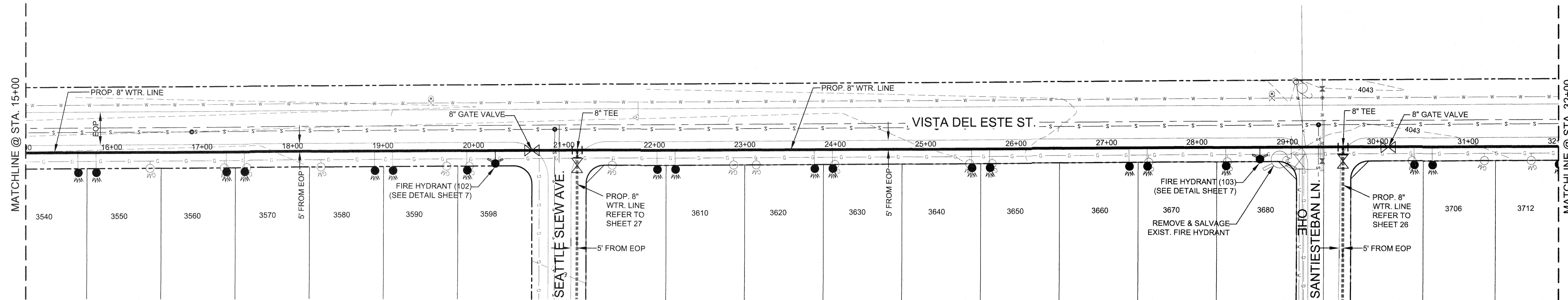
BEFORE YOU DIG

CONTRACTOR SHALL COORDINATE AND FIELD LOCATE ALL EXISTING UNDERGROUND UTILITIES IN THE PROJECT AREA.

CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD LOCATING, POT HOLING AND/OR EXPOSING LINES TO VERIFY POSSIBLE CONFLICTS PRIOR TO ANY EXCAVATING ACTIVITY.

CONTRACTOR SHALL NOTIFY ENGINEER OF ANY POSSIBLE CONFLICT 2 WEEKS PRIOR TO TRENCHING IN THAT AREA.

SCALE: HORIZ. VER. DATE: 09/12/2018 DESIGN BY: F.H. DRAWN BY: A.C. CHECKED BY: F.H. APP'D. BY: F.H.	REFERENCES: --- BENCHMARKS ENGINEER'S SEAL PROJECT NAME VISTA DEL ESTE WATER DISTRIBUTION SYSTEM	REVISIONS DATE BY	COUNTY OF EL PASO PUBLIC WORKS DEPARTMENT 8" WATER LINE VISTA DEL ESTE PLAN & PROFILE
SHEET TITLE 8" WATER LINE VISTA DEL ESTE PLAN & PROFILE		SHEET 8 OF 31	



- DIG TESS - 1-811
- EL PASO ELECTRIC CO. - 543-2047
- TEXAS GAS SERVICE - 544-5330
- AT&T - 1-800-286-8343
- TIME WARNER CABLE - 772-1123
- ONE CALL - 811 OR 1-800-344-8377
- E.P. COUNTY WATER - 856-1681
- E.P. NATURAL GAS - 471-0124
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- DELL TELEPHONE COOP INC. - 1-800-245-2991
- TXNW-ATT/D - 740-6512
- ONEOK - 1-877-530-5685
- BUCKEYE GULF COAST PIPE LINES - 1-877-530-5685

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WATER LINE "A"
 VISTA DEL ESTE STREET FROM GREG STREET TO MARVIN LANE
 HORIZONTAL SCALE: 1"=60'
 VERTICAL SCALE: 1"=10'

LEGEND

	EXISTING POWER POLE		STREET R.O.W. LINE		PROPOSED CROSS
	EXISTING LIGHT POLE		EXISTING EDGE OF PAVEMENT		PROPOSED TEE
	EXISTING SIGN		EXISTING CABLE LINE		PROPOSED 90° BEND
	EXISTING WATER VALVE		EXISTING WATER LINE		PROPOSED CAP
	EXISTING WATER METER		EXISTING GAS LINE		PROPOSED VALVE
	EXISTING FIRE HYDRANT		EXISTING FENCE OR WALL		PROPOSED FIRE HYDRANT
	EXISTING WASTE WATER MANHOLE		EXISTING OVERHEAD ELECTRIC		PROPOSED WATER METER
	EXISTING TELEPHONE PEDESTAL		EXISTING FIBER OPTIC CABLE		EXISTING TREE
	EXISTING MAILBOX		PROPOSED WATER LINE		EXISTING GAS METER
	EXISTING CONTROL POINTS		EXISTING LOT LINE		
	XXXX STREET ADDRESS				

ENGINEER'S SEAL: [Seal of Fernando Hernandez, Jr., License No. 102527, State of Texas]

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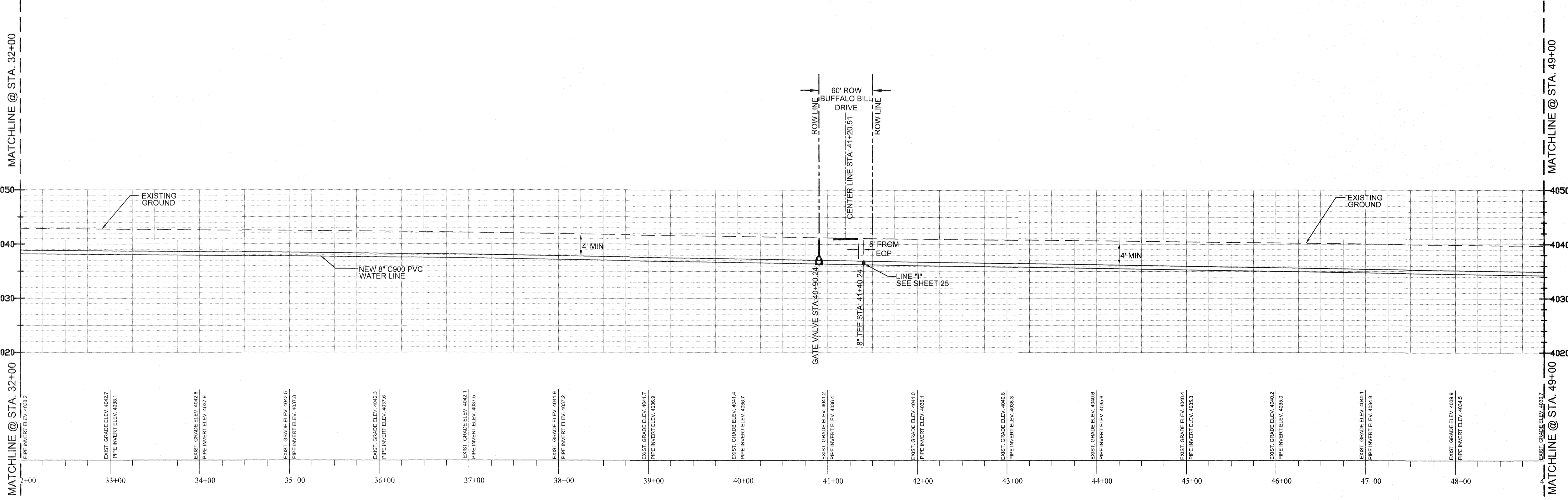
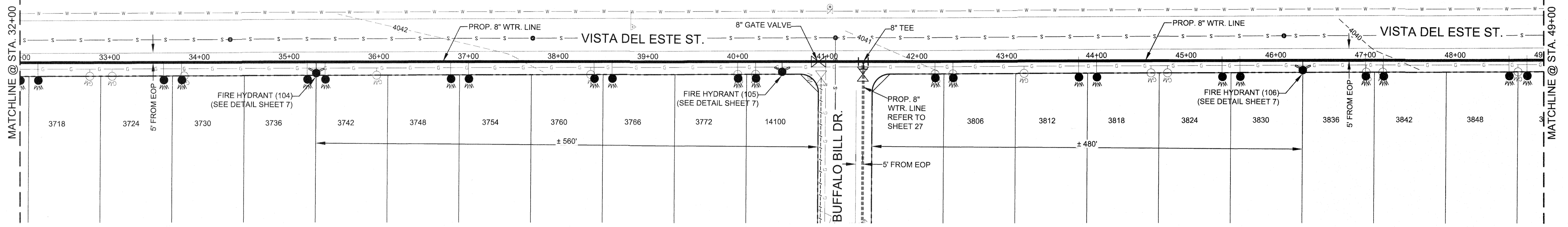
DATE: 09/12/2018
 DESIGN BY: F.H.
 DRAWN BY: A.G.
 CHKD. BY: F.H.
 APPD. BY: F.H.

PROJECT NAME: **VISTA DEL ESTE WATER DISTRIBUTION SYSTEM**

COUNTY OF EL PASO PUBLIC WORKS DEPARTMENT

SHEET TITLE: **8" WATER LINE VISTA DEL ESTE PLAN & PROFILE**

SHEET: 9 OF 31



DIG TESS	- 1-811
EL PASO ELECTRIC CO.	- 543-2047
TEXAS GAS SERVICE	- 544-6300
AT&T	- 1-800-286-8343
TIME WARNER CABLE	- 772-1123
ONE CALL	- 811 OR 1-800-344-8377
E.P. COUNTY WATER	- 555-1681
E.P. NATURAL GAS	- 471-0124
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COOP-INC.	- 740-6512
TXNW-ATT/D	- 1-877-530-5685
ONEOK	
BUCKEYE GULF COAST PIPE LINES	

BEFORE YOU DIG

CONTRACTOR SHALL COORDINATE AND FIELD LOCATE ALL EXISTING UNDERGROUND UTILITIES IN THE PROJECT AREA.

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CONTRACTOR SHALL NOTIFY ENGINEER OF ANY POSSIBLE CONFLICT 2 WEEKS PRIOR TO TRENCHING IN THAT AREA.

WATER LINE "A"
 VISTA DEL ESTE STREET FROM GREG STREET TO MARVIN LANE
 HORIZONTAL SCALE: 1"=60'
 VERTICAL SCALE: 1"=10'

LEGEND

	EXISTING POWER POLE		STREET R.O.W. LINE		PROPOSED CROSS
	EXISTING LIGHT POLE		EXISTING EDGE OF PAVEMENT		PROPOSED TEE
	EXISTING SIGN		CATV		PROPOSED 90° BEND
	EXISTING WATER VALVE		EXISTING WATER LINE		PROPOSED CAP
	EXISTING WATER METER		EXISTING GAS LINE		PROPOSED VALVE
	EXISTING FIRE HYDRANT		EXISTING FENCE OR WALL		PROPOSED FIRE HYDRANT
	EXISTING WASTE WATER MANHOLE		EXISTING OVERHEAD ELECTRIC		PROPOSED WATER METER
	EXISTING TELEPHONE PEDESTAL		EXISTING FIBER OPTIC CABLE		EXISTING TREE
	EXISTING MAILBOX		PROPOSED WATER LINE		EXISTING GAS METER
	EXISTING CONTROL POINTS		EXISTING LOT LINE		
	STREET ADDRESS				

ENGINEER'S SEAL: FERNANDO HERNANDEZ, P.E., 102517, PROFESSIONAL ENGINEER, STATE OF TEXAS

SCALE: _____

DATE: 09/12/18

DESIGN BY: F.H.

DRAWN BY: A.G.

CHECKED BY: F.H.

APPD. BY: F.H.

PROJECT NAME: VISTA DEL ESTE WATER DISTRIBUTION SYSTEM

COUNTY OF EL PASO PUBLIC WORKS DEPARTMENT

SHEET TITLE: 8" WATER LINE VISTA DEL ESTE PLAN & PROFILE

SHEET 10 OF 31

- DIG TESS - 1-811
- EL PASO ELECTRIC CO. - 543-2047
- TEXAS GAS SERVICE - 544-6300
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- E.P. COUNTY WATER - 855-1581
- E.P. NATURAL GAS - 471-0124
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- BUCKEYE GULF COAST PIPE LINES - 1-877-530-5685

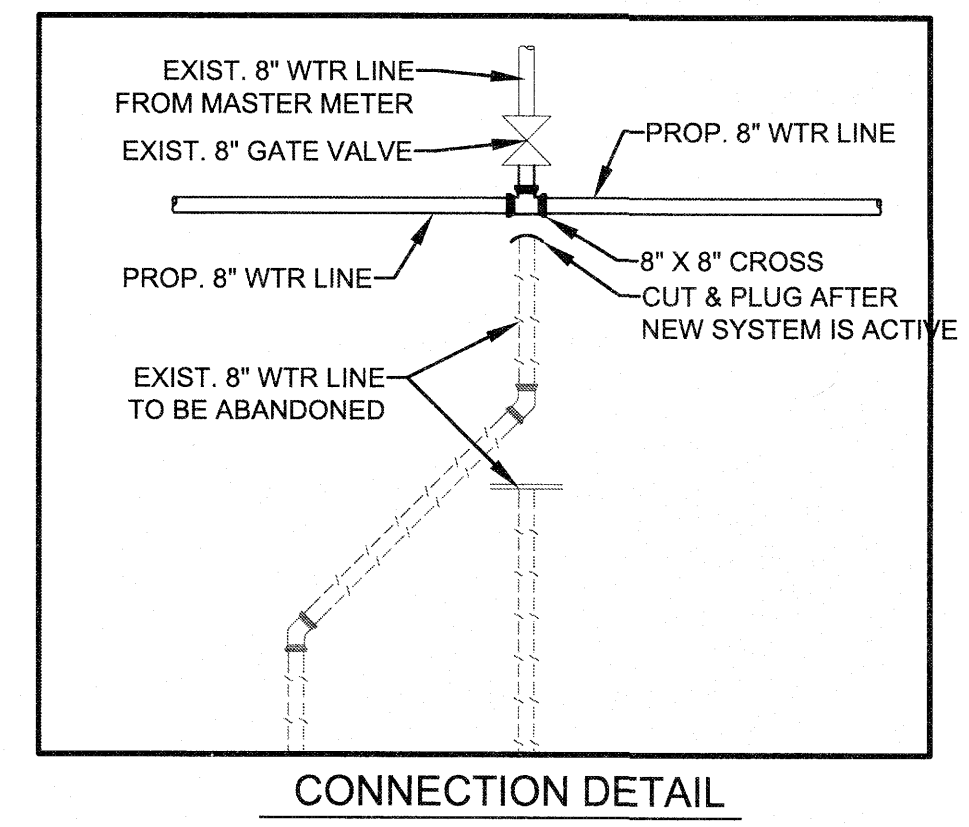
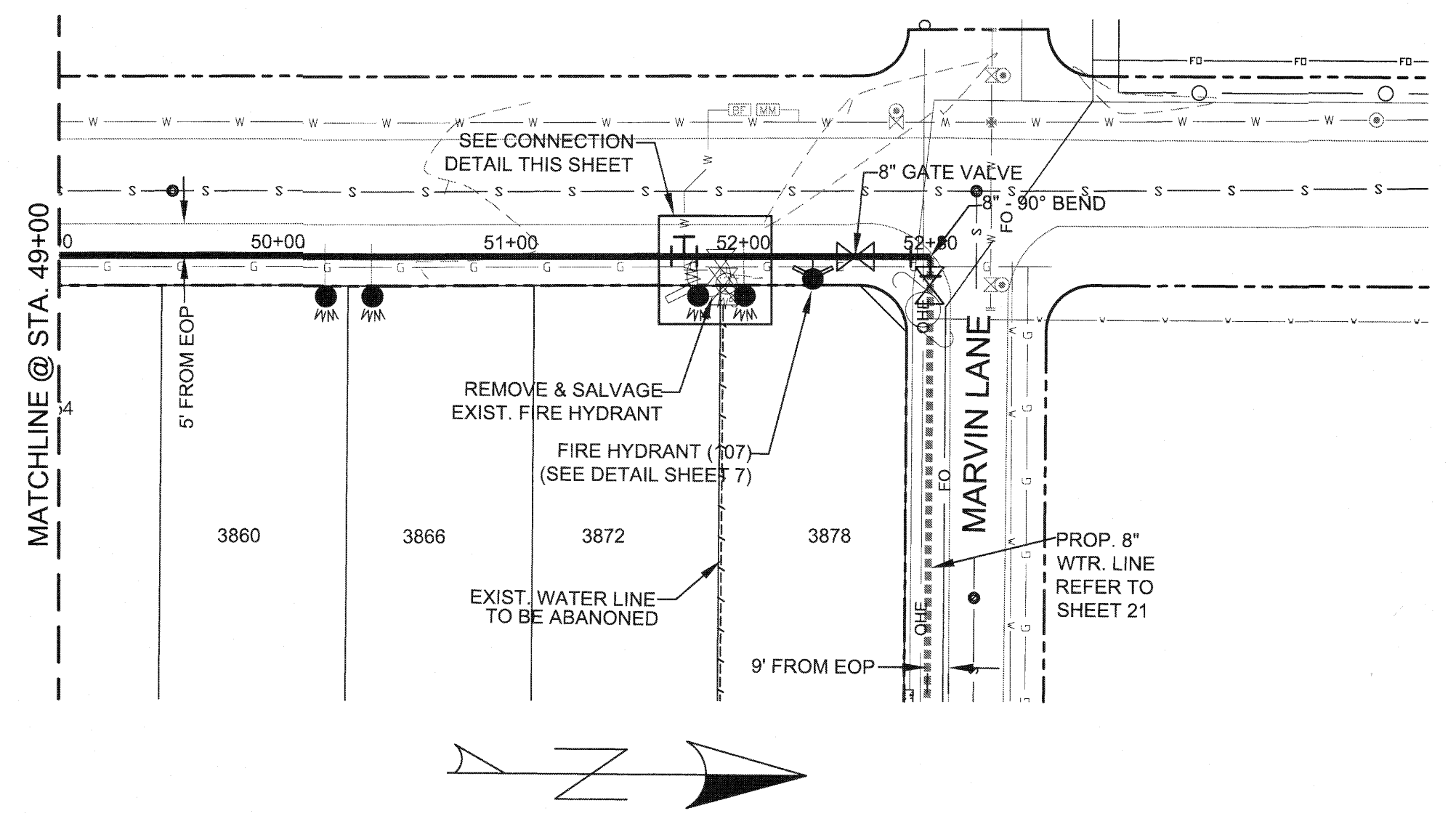
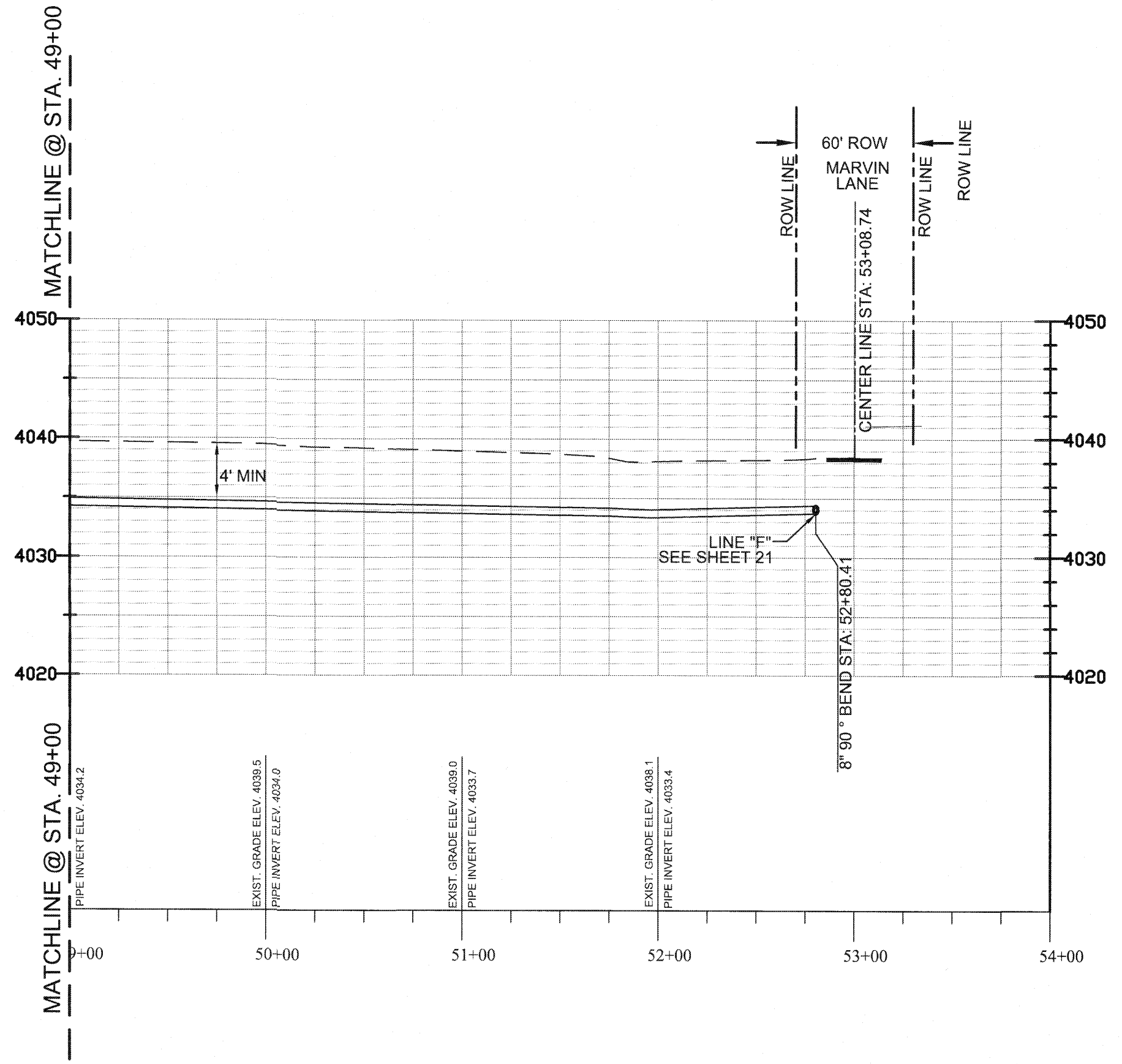
BEFORE YOU DIG

CONTRACTOR SHALL COORDINATE AND FIELD LOCATE ALL EXISTING UNDERGROUND UTILITIES IN THE PROJECT AREA.

CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD LOCATING, POT HOLING AND/OR EXPOSING LINES TO VERIFY POSSIBLE CONFLICTS PRIOR TO ANY EXCAVATING ACTIVITY.

CONTRACTOR SHALL NOTIFY ENGINEER OF ANY POSSIBLE CONFLICT 2 WEEKS PRIOR TO TRENCHING IN THAT AREA.

WATER LINE "A"
 VISTA DEL ESTE FROM GREG STREET TO MARVIN LANE
 HORIZONTAL SCALE: 1"=60'
 VERTICAL SCALE: 1"=10'



LEGEND			
	EXISTING POWER POLE		STREET R.O.W. LINE
	EXISTING LIGHT POLE		EXISTING EDGE OF PAVEMENT
	EXISTING SIGN		EXISTING CABLE LINE
	EXISTING WATER VALVE		EXISTING WATER LINE
	EXISTING WATER METER		EXISTING GAS LINE
	EXISTING FIRE HYDRANT		EXISTING FENCE OR WALL
	EXISTING WASTE WATER MANHOLE		EXISTING OVERHEAD ELECTRIC
	EXISTING TELEPHONE PEDESTAL		EXISTING FIBER OPTIC CABLE
	EXISTING MAILBOX		PROPOSED WATER LINE
	EXISTING CONTROL POINTS		EXISTING LOT LINE
	XXXX STREET ADDRESS		PROPOSED CROSS
			PROPOSED TEE
			PROPOSED 90° BEND
			PROPOSED CAP
			PROPOSED VALVE
			PROPOSED FIRE HYDRANT
			PROPOSED WATER METER
			EXISTING TREE
			EXISTING GAS METER

ENGINEER'S SEAL
 FERNANDO HERNANDEZ, JR.
 102527
 PROFESSIONAL ENGINEER

SCALE: _____
 DATE: 09/12/08
 DESIGN BY: F.H.
 DRAWN BY: A.G.
 CHECKED BY: F.H.
 APPROVED BY: F.H.

PROJECT NAME
**VISTA DEL ESTE
 WATER DISTRIBUTION SYSTEM**

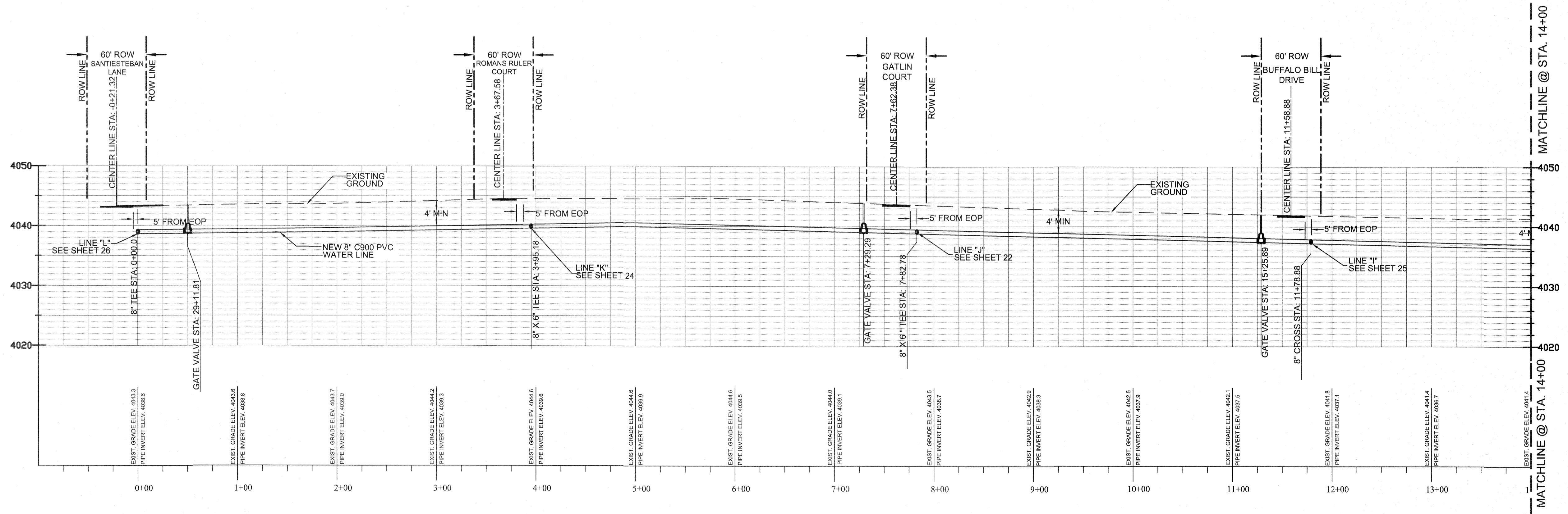
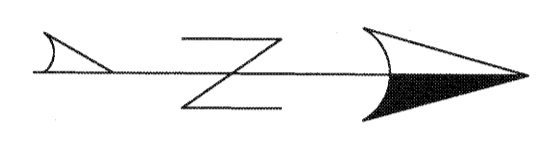
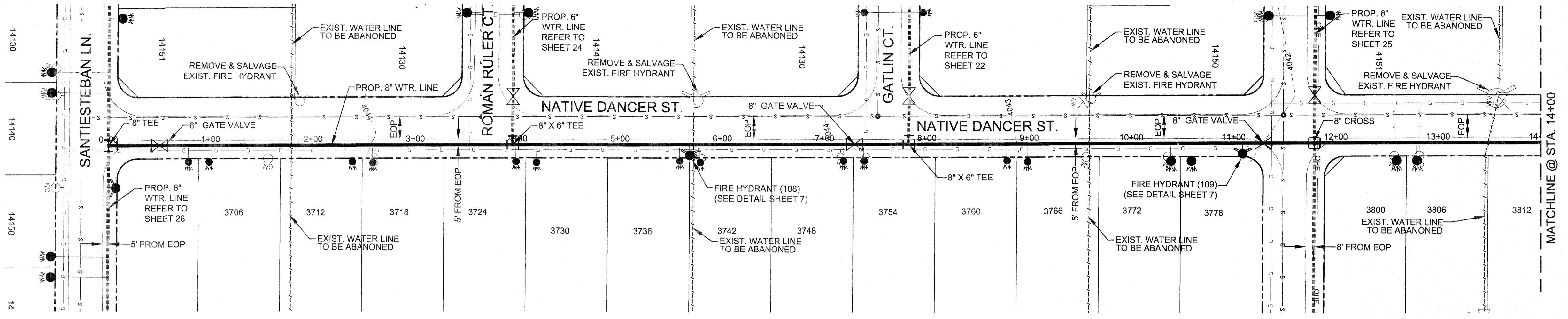
COUNTY OF EL PASO
 PUBLIC WORKS DEPARTMENT

SHEET TITLE
**8" WATER LINE
 VISTA DEL ESTE
 PLAN & PROFILE**

SHEET
11 OF 31

REFERENCES: _____
 BENCHMARKS: _____

DATE: _____
 REVISIONS: _____
 BY: _____



- DIG TESS - 1-811
- EL PASO ELECTRIC CO. - 543-2047
- TEXAS GAS SERVICE - 544-6300
- AT&T - 1-800-296-8343
- TIME WARNER CABLE - 772-1123
- ONE CALL - 811 OR 1-800-344-8377
- E.P. COUNTY WATER - 855-1681
- E.P. NATURAL GAS - 471-0124
- SM & P - 1-866-861-7678
- AT&T FIBER OPTICS - 1-817-589-1056
- DELL TELEPHONE COOP INC. - 1-800-245-2991
- TXNW-ATT/D - 740-6512
- BUCKEYE GULF COAST PIPE LINES - 1-877-530-5885

BEFORE YOU DIG

CONTRACTOR SHALL COORDINATE AND FIELD LOCATE ALL EXISTING UNDERGROUND UTILITIES IN THE PROJECT AREA.

CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD LOCATING, POT HOLING AND/OR EXPOSING LINES TO VERIFY POSSIBLE CONFLICTS PRIOR TO ANY EXCAVATING ACTIVITY.

CONTRACTOR SHALL NOTIFY ENGINEER OF ANY POSSIBLE CONFLICT 2 WEEKS PRIOR TO TRENCHING IN THAT AREA.

WATER LINE "B"
 NATIVE DANCER STREET FROM SANTIESTEBAN LANE TO MARVIN LANE
 HORIZONTAL SCALE: 1"=60'
 VERTICAL SCALE: 1"=10'

LEGEND

	EXISTING POWER POLE		STREET R.O.W. LINE		PROPOSED CROSS
	EXISTING LIGHT POLE		EXISTING EDGE OF PAVEMENT		PROPOSED TEE
	EXISTING SIGN		EXISTING CABLE LINE		PROPOSED 90° BEND
	EXISTING WATER VALVE		EXISTING WATER LINE		PROPOSED CAP
	EXISTING WATER METER		EXISTING GAS LINE		PROPOSED VALVE
	EXISTING FIRE HYDRANT		EXISTING FENCE OR WALL		PROPOSED FIRE HYDRANT
	EXISTING WASTE WATER MANHOLE		EXISTING OVERHEAD ELECTRIC		PROPOSED WATER METER
	EXISTING TELEPHONE PEDESTAL		EXISTING FIBER OPTIC CABLE		EXISTING TREE
	EXISTING MAILBOX		PROPOSED WATER LINE		EXISTING GAS METER
	EXISTING CONTROL POINTS		EXISTING LOT LINE		
	XXXX STREET ADDRESS				

ENGINEER'S SEAL: FERNANDO HERNANDEZ, P.E., LICENSE NO. 102577, PROFESSIONAL ENGINEER, CIVIL, STATE OF TEXAS

SCALE: _____

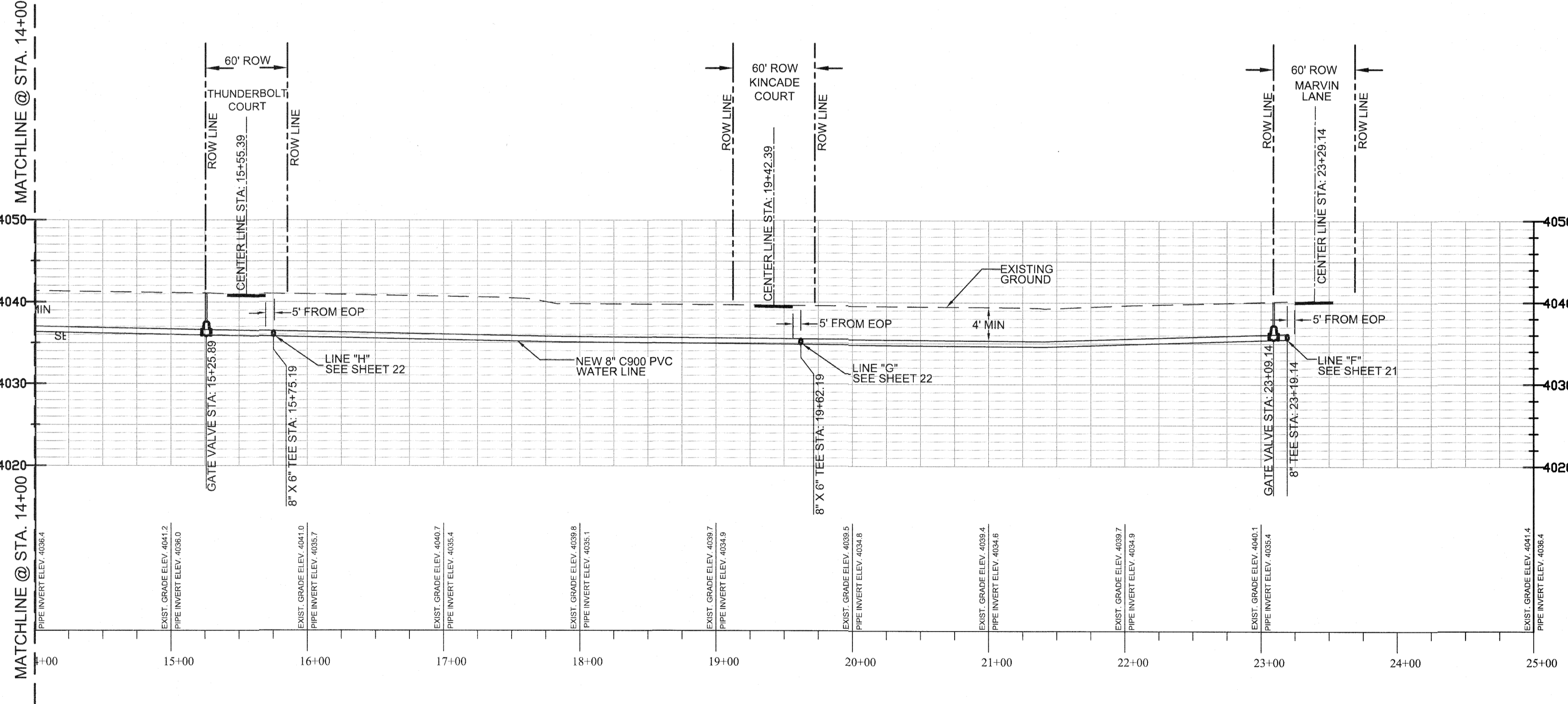
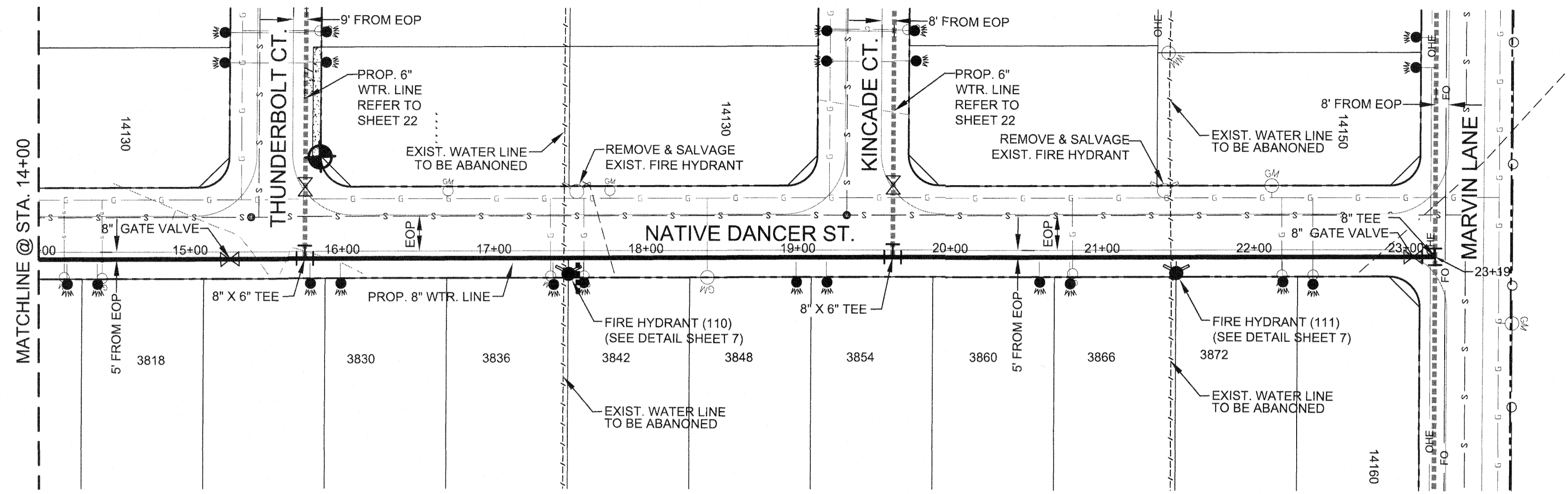
DATE: 09/12/18
 DESIGN BY: F.H.
 DRAWN BY: A.G.
 CHECKED BY: F.H.
 APP'D. BY: F.H.

PROJECT NAME: **VISTA DEL ESTE WATER DISTRIBUTION SYSTEM**

COUNTY OF EL PASO PUBLIC WORKS DEPARTMENT

SHEET TITLE: **8" WATER LINE NATIVE DANCER STREET PLAN & PROFILE**

SHEET 12 OF 31



- DIG TESS - 1-811
- EL PASO ELECTRIC CO. - 543-2047
- TEXAS GAS SERVICE - 644-6300
- AT&T - 1-800-286-8343
- TIME WARNER CABLE - 772-1123
- ONE CALL - 811 OR 1-800-344-8377
- E.P. COUNTY WATER - 855-1681
- E.P. NATURAL GAS - 471-0124
- SM & P - 1-866-861-7878
- AT&T FIBER OPTICS - 1-817-589-1056
- DELL TELEPHONE COOP INC. - 1-800-245-2991
- TXNW-ATT/D - 740-6512
- ONECK - 1-877-530-5885
- BUCKEYE GULF COAST PIPE LINES

BEFORE YOU DIG

CONTRACTOR SHALL COORDINATE AND FIELD LOCATE ALL EXISTING UNDERGROUND UTILITIES IN THE PROJECT AREA.

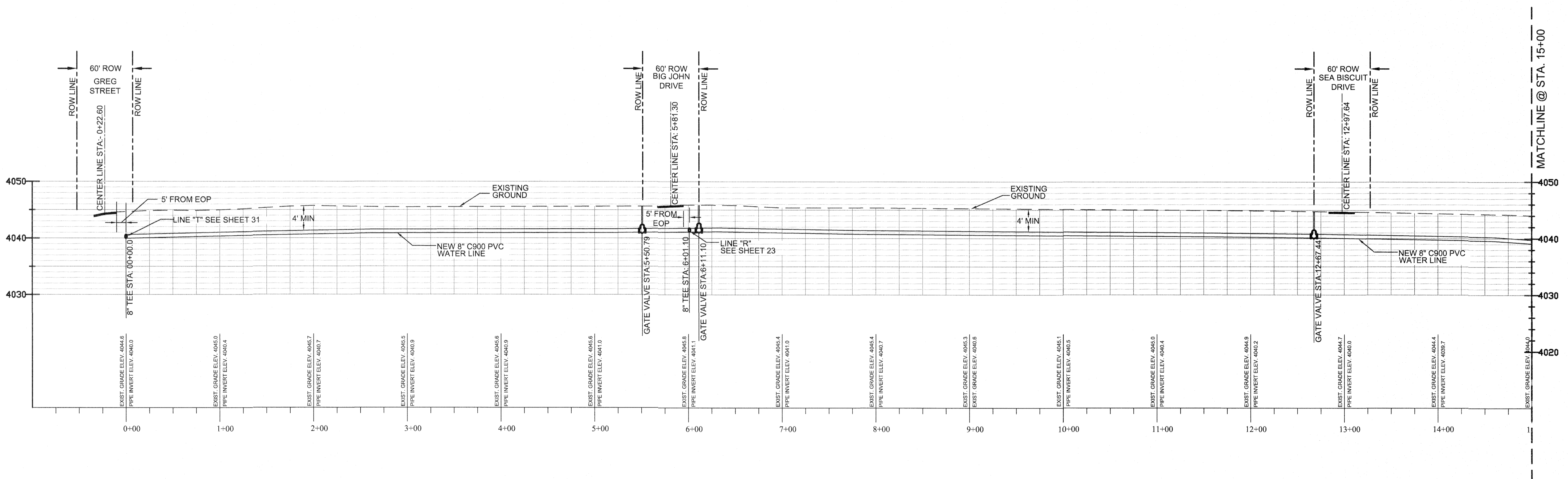
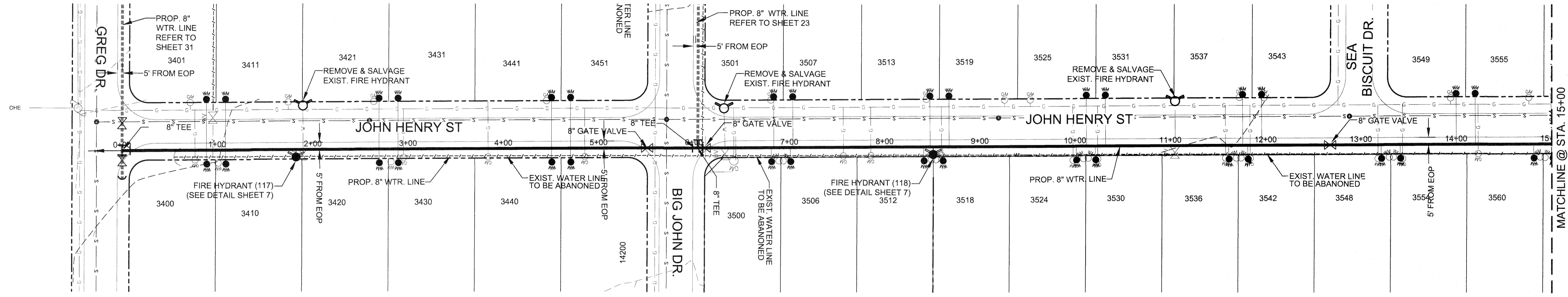
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CONTRACTOR SHALL NOTIFY ENGINEER OF ANY POSSIBLE CONFLICT 2 WEEKS PRIOR TO TRENCHING IN THAT AREA.

WATER LINE "B"
 NATIVE DANCER STREET FROM SANTIESTEBAN LANE TO MARVIN LANE
 HORIZONTAL SCALE: 1"=60'
 VERTICAL SCALE: 1"=10'

LEGEND	
	EXISTING POWER POLE
	EXISTING LIGHT POLE
	EXISTING SIGN
	EXISTING WATER VALVE
	EXISTING WATER METER
	EXISTING FIRE HYDRANT
	EXISTING WASTE WATER MANHOLE
	EXISTING TELEPHONE PEDESTAL
	EXISTING MAILBOX
	EXISTING CONTROL POINTS
	STREET ADDRESS
	STREET R.O.W. LINE
	EXISTING EDGE OF PAVEMENT
	CATV
	EXISTING WATER LINE
	EXISTING GAS LINE
	EXISTING FENCE OR WALL
	EXISTING OVERHEAD ELECTRIC
	EXISTING FIBER OPTIC CABLE
	PROPOSED WATER LINE
	EXISTING LOT LINE
	PROPOSED CROSS
	PROPOSED TEE
	PROPOSED 90° BEND
	PROPOSED CAP
	PROPOSED VALVE
	PROPOSED FIRE HYDRANT
	PROPOSED WATER METER
	EXISTING TREE
	EXISTING GAS METER

COUNTY OF EL PASO PUBLIC WORKS DEPARTMENT	VISTA DELESTE WATER DISTRIBUTION SYSTEM	PROJECT NAME ENGINEER'S SEAL REFERENCES --- BENCHMARKS SCALE: HOR. VER: DATE 09/12/18 DESIGN BY F.H. DRAWN BY A.G. CHKD. BY F.H. APPD. BY F.H.
SHEET TITLE 8" WATER LINE NATIVE DANCER PLAN & PROFILE		
SHEET 13 OF 31		



- DIG TESS - 1-811
- EL PASO ELECTRIC CO. - 543-2047
- TEXAS GAS SERVICE - 544-8300
- AT&T - 1-800-298-8343
- TIME WARNER CABLE - 772-1123
- ONE CALL - 811 OR 1-800-344-8377
- E.P. COUNTY WATER - 855-1581
- E.P. NATURAL GAS - 471-0124
- SM & P - 1-866-861-7678
- AT&T FIBER OPTICS - 1-817-589-1056
- DELL TELEPHONE COOP INC. - 1-800-245-2991
- TXNW-ATT/D - 740-6512
- BUCKEYE GULF COAST PIPE LINES - 1-877-530-5665

BEFORE YOU DIG

CONTRACTOR SHALL COORDINATE AND FIELD LOCATE ALL EXISTING UNDERGROUND UTILITIES IN THE PROJECT AREA.

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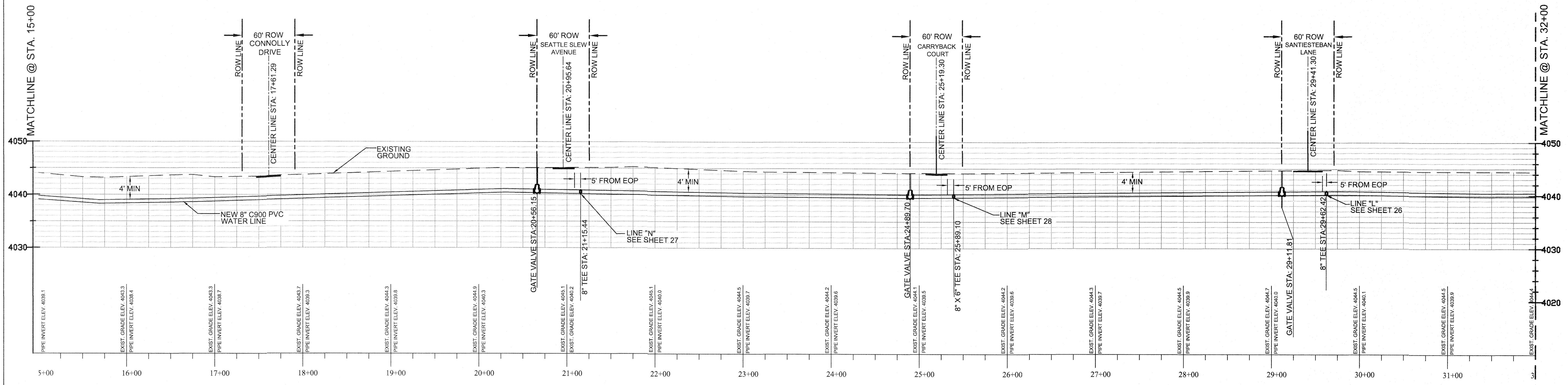
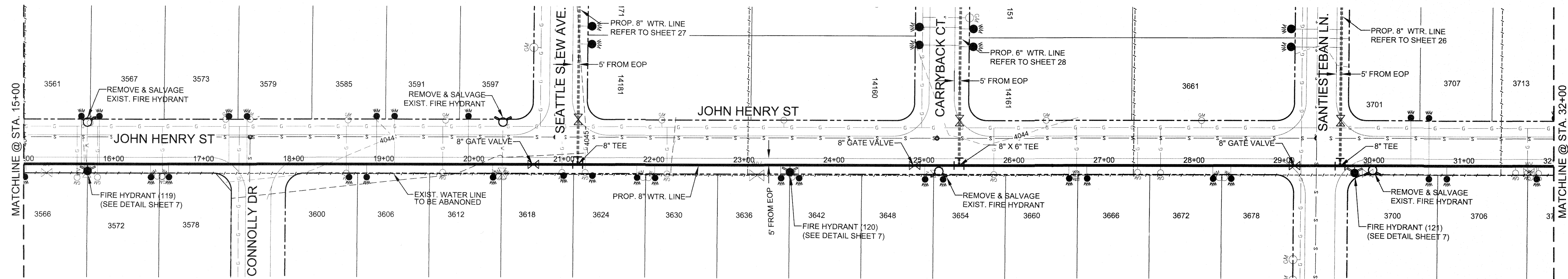
CONTRACTOR SHALL NOTIFY ENGINEER OF ANY POSSIBLE CONFLICT 2 WEEKS PRIOR TO TRENCHING IN THAT AREA.

WATER LINE "C"
 JOHN HENRY STREET FROM GREG STREET TO MARVIN LANE
 HORIZONTAL SCALE: 1"=60'
 VERTICAL SCALE: 1"=10'

LEGEND

	EXISTING POWER POLE		STREET R.O.W. LINE		PROPOSED CROSS
	EXISTING LIGHT POLE		EXISTING EDGE OF PAVEMENT		PROPOSED TEE
	EXISTING SIGN		EXISTING CABLE LINE		PROPOSED 90° BEND
	EXISTING WATER VALVE		EXISTING WATER LINE		PROPOSED CAP
	EXISTING WATER METER		EXISTING GAS LINE		PROPOSED VALVE
	EXISTING FIRE HYDRANT		EXISTING FENCE OR WALL		PROPOSED FIRE HYDRANT
	EXISTING WASTE WATER MANHOLE		EXISTING OVERHEAD ELECTRIC		PROPOSED WATER METER
	EXISTING TELEPHONE PEDESTAL		EXISTING FIBER OPTIC CABLE		EXISTING TREE
	EXISTING MAILBOX		PROPOSED WATER LINE		EXISTING GAS METER
	EXISTING CONTROL POINTS		EXISTING LOT LINE		
	XXXX STREET ADDRESS				

COUNTY OF EL PASO PUBLIC WORKS DEPARTMENT	PROJECT NAME VISTA DELESTE WATER DISTRIBUTION SYSTEM	ENGINEER'S SEAL 	REFERENCES --- BENCHMARKS DATE REVISIONS BY
SHEET TITLE 8" WATER LINE JOHN HENRY PLAN & PROFILE		SCALE: HOR. VER. DATE 09/12/18 DESIGN BY F.H. DRAWN BY A.G. CHKD. BY F.H. APPD. BY F.H.	SHEET 14 OF 31



WATER LINE "C"
 JOHN HENRY STREET FROM GREG STREET TO MARVIN LANE
 HORIZONTAL SCALE: 1"=60'
 VERTICAL SCALE: 1"=10'

- DIG TESS - 1-811
- EL PASO ELECTRIC CO. - 543-2047
- TEXAS GAS SERVICE - 544-6300
- AT&T - 1-800-286-8343
- TIME WARNER CABLE - 772-1123
- ONE CALL - 811 OR 1-800-344-8377
- E.P. COUNTY WATER - 855-1881
- E.P. NATURAL GAS - 471-0124
- SM & P - 1-866-861-7678
- AT&T FIBER OPTICS - 1-817-589-1056
- DELL TELEPHONE - 1-800-245-2991
- COOP INC. - 740-6512
- TXNW-ATT/D - 740-6512
- ONEOK - 740-6512
- BUCKEYE GULF COAST PIPE LINES - 1-877-530-5665

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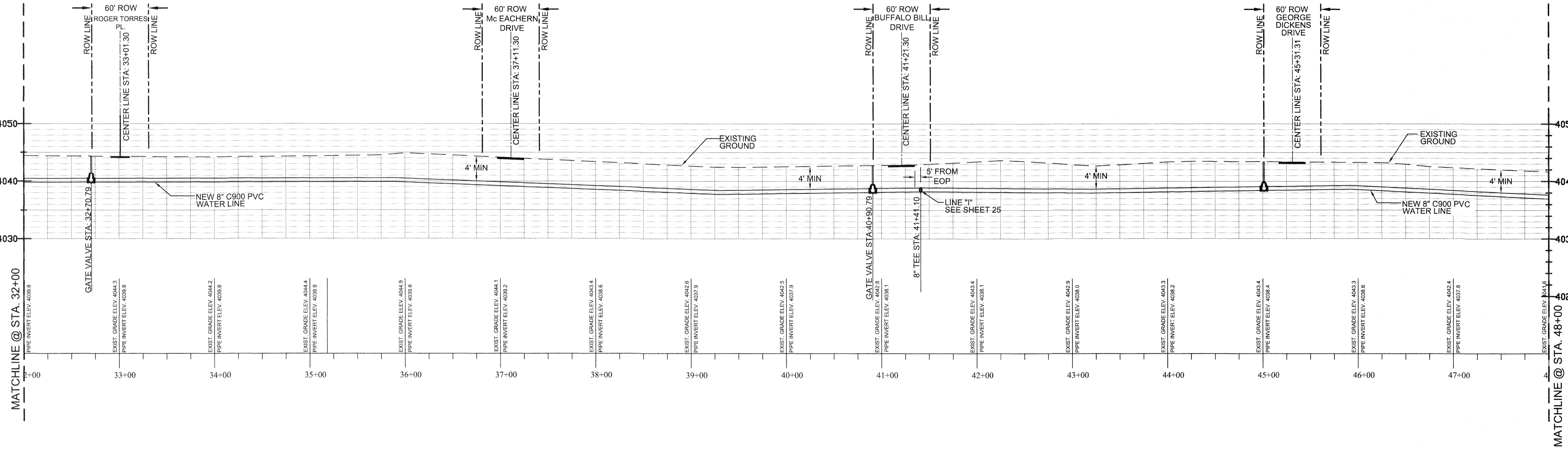
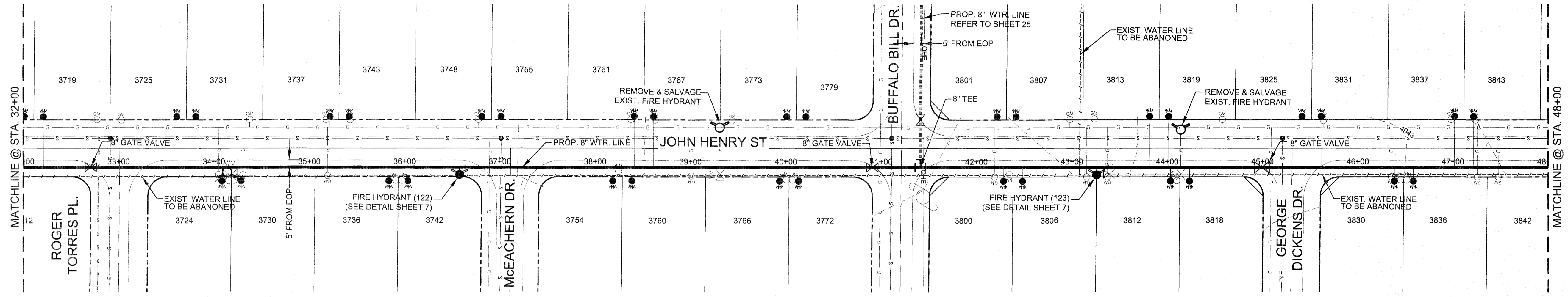
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CONTRACTOR SHALL NOTIFY ENGINEER OF ANY POSSIBLE CONFLICT 2 WEEKS PRIOR TO TRENCHING IN THAT AREA.

LEGEND	
	EXISTING POWER POLE
	EXISTING LIGHT POLE
	EXISTING SIGN
	EXISTING WATER VALVE
	EXISTING WATER METER
	EXISTING FIRE HYDRANT
	EXISTING WASTE WATER MANHOLE
	EXISTING TELEPHONE PEDESTAL
	EXISTING MAILBOX
	EXISTING CONTROL POINTS
	STREET ADDRESS
	STREET R.O.W. LINE
	EXISTING EDGE OF PAVEMENT
	EXISTING CABLE LINE
	EXISTING WATER LINE
	EXISTING GAS LINE
	EXISTING FENCE OR WALL
	EXISTING OVERHEAD ELECTRIC
	EXISTING FIBER OPTIC CABLE
	PROPOSED WATER LINE
	EXISTING LOT LINE
	PROPOSED CROSS
	PROPOSED TEE
	PROPOSED 90° BEND
	PROPOSED CAP
	PROPOSED VALVE
	PROPOSED FIRE HYDRANT
	PROPOSED WATER METER
	EXISTING TREE
	EXISTING GAS METER

ENGINEER: [Signature] DATE: 09/12/18 DESIGN BY: F.H. DRAWN BY: A.G. CHECKED BY: F.H. APP'D. BY: F.H.	SCALE: [Blank] HORIZ. VER. [Blank]	REFERENCES: [Blank] BENCHMARKS: [Blank]	PROJECT NAME: VISTA DEL ESTE WATER DISTRIBUTION SYSTEM	COUNTY OF EL PASO PUBLIC WORKS DEPARTMENT
SHEET TITLE: 8" WATER LINE JOHN HENRY PLAN & PROFILE				
SHEET: 15 OF 31				



WATER LINE "C"
 JOHN HENRY STREET FROM GREG STREET TO MARVIN LANE
 HORIZONTAL SCALE: 1"=60'
 VERTICAL SCALE: 1"=10'

DIG TESS	- 1-811
EL PASO ELECTRIC CO.	- 543-2047
TEXAS GAS SERVICE	- 544-5300
AT&T	- 1-800-286-8343
TIME WARNER CABLE	- 772-1123
ONE CALL	- 811 OR 1-800-344-8377
E.P. COUNTY WATER	- 855-1881
E.P. NATURAL GAS	- 474-9124
SM & P	- 1-866-861-7678
AT&T FIBER OPTICS	- 1-817-589-1056
DELL TELEPHONE COOP. INC.	- 1-800-245-2991
TXNW-ATT/D	-
ONEOK	- 740-8512
BUCKEYE GULF COAST PIPE LINES	- 1-877-530-5665

BEFORE YOU DIG

CONTRACTOR SHALL COORDINATE AND FIELD LOCATE ALL EXISTING UNDERGROUND UTILITIES IN THE PROJECT AREA.

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LEGEND	
	EXISTING POWER POLE
	EXISTING LIGHT POLE
	EXISTING SIGN
	EXISTING WATER VALVE
	EXISTING WATER METER
	EXISTING FIRE HYDRANT
	EXISTING WASTE WATER MANHOLE
	EXISTING TELEPHONE PEDESTAL
	EXISTING MAILBOX
	EXISTING CONTROL POINTS
	STREET ADDRESS
	STREET R.O.W. LINE
	EXISTING EDGE OF PAVEMENT
	EXISTING CABLE LINE
	EXISTING WATER LINE
	EXISTING GAS LINE
	EXISTING FENCE OR WALL
	EXISTING OVERHEAD ELECTRIC
	EXISTING FIBER OPTIC CABLE
	PROPOSED WATER LINE
	EXISTING LOT LINE
	PROPOSED CROSS
	PROPOSED TEE
	PROPOSED 90° BEND
	PROPOSED CAP
	PROPOSED VALVE
	PROPOSED FIRE HYDRANT
	PROPOSED WATER METER
	EXISTING TREE
	EXISTING GAS METER

ENGINEER'S SEAL: [Seal of Fernando Jimenez, Jr., State of Texas, License No. 102527]

SCALE: [Blank]

DATE: 09/12/18
 DESIGN BY: F.H.
 DRAWN BY: A.G.
 CHKD. BY: F.H.
 APPD. BY: F.H.

PROJECT NAME: VISTA DELESTE WATER DISTRIBUTION SYSTEM

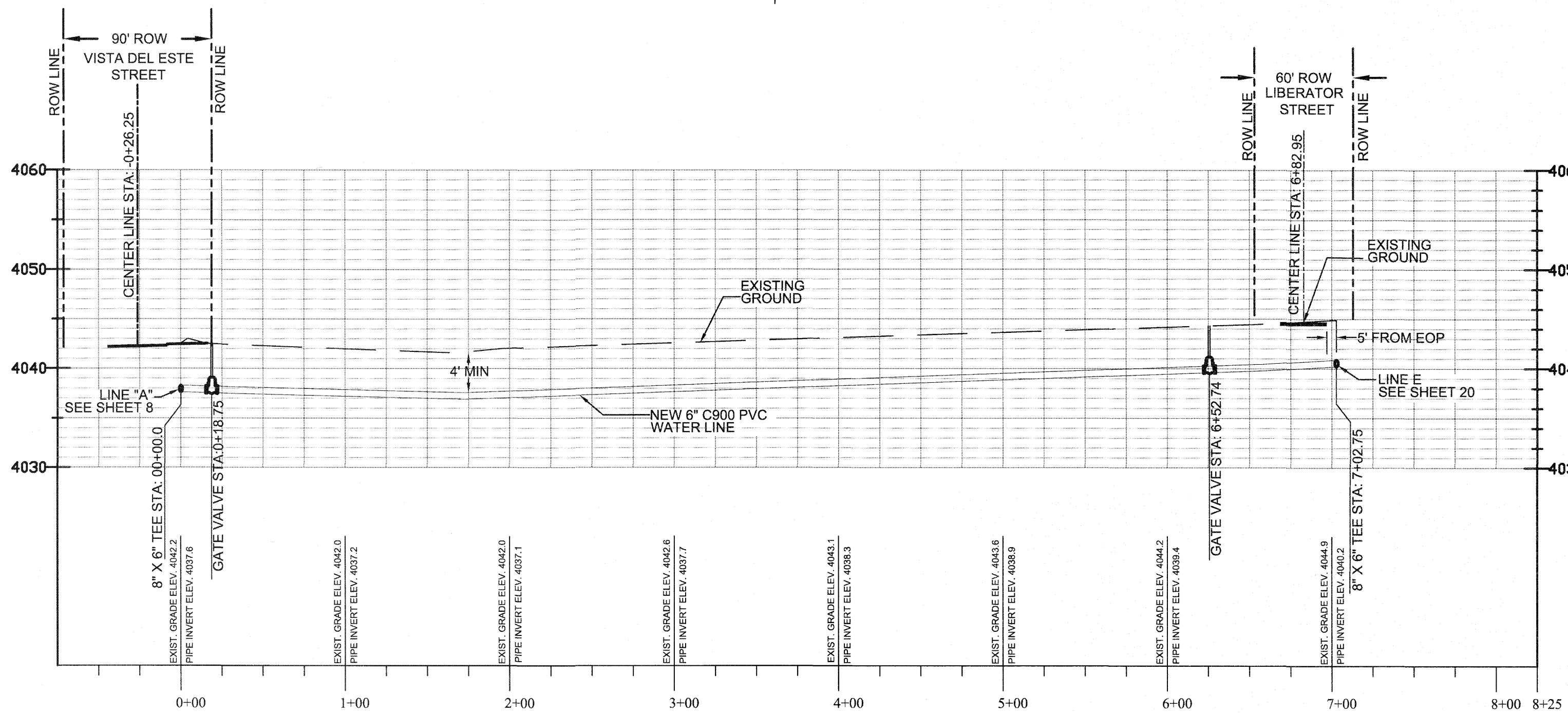
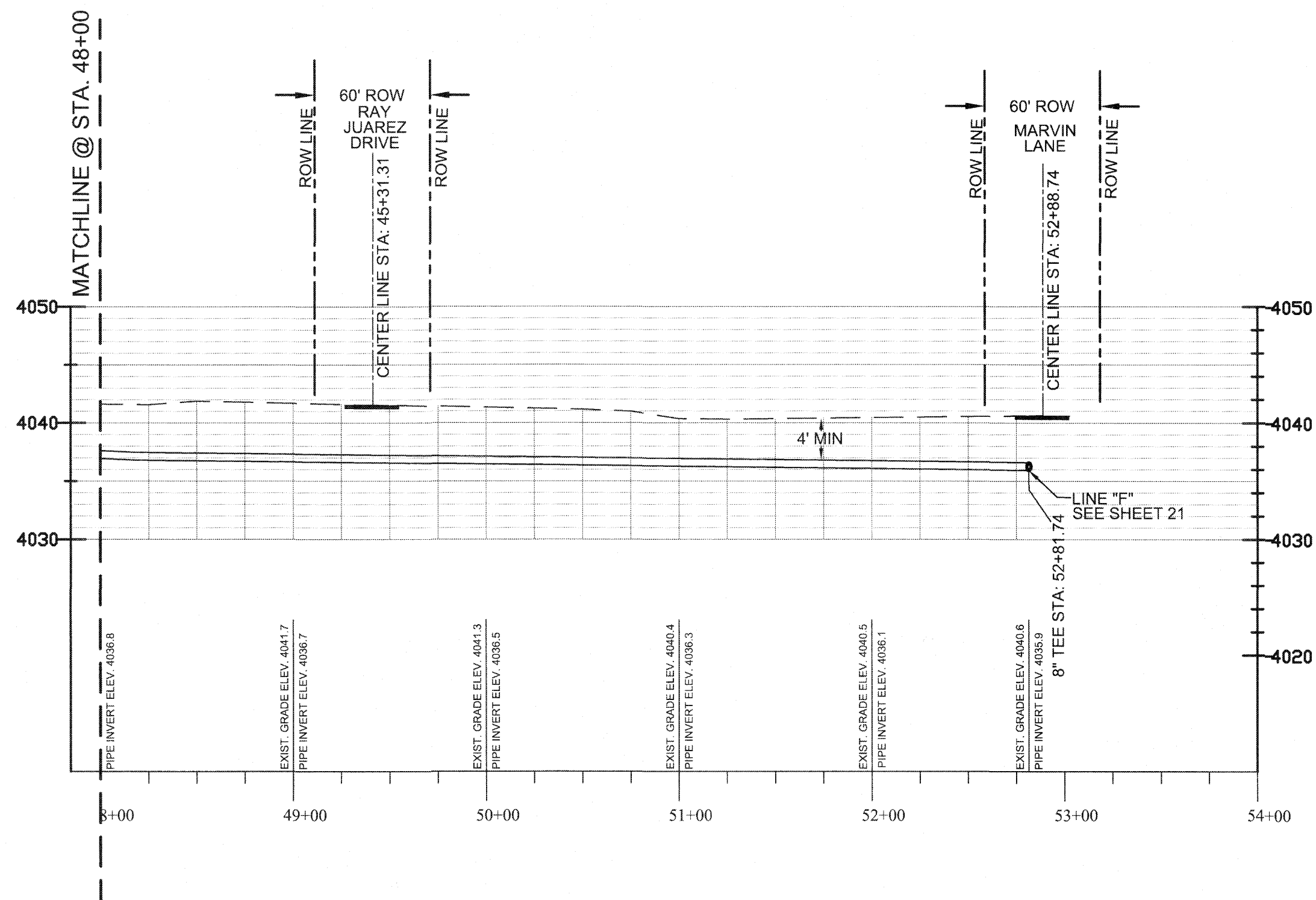
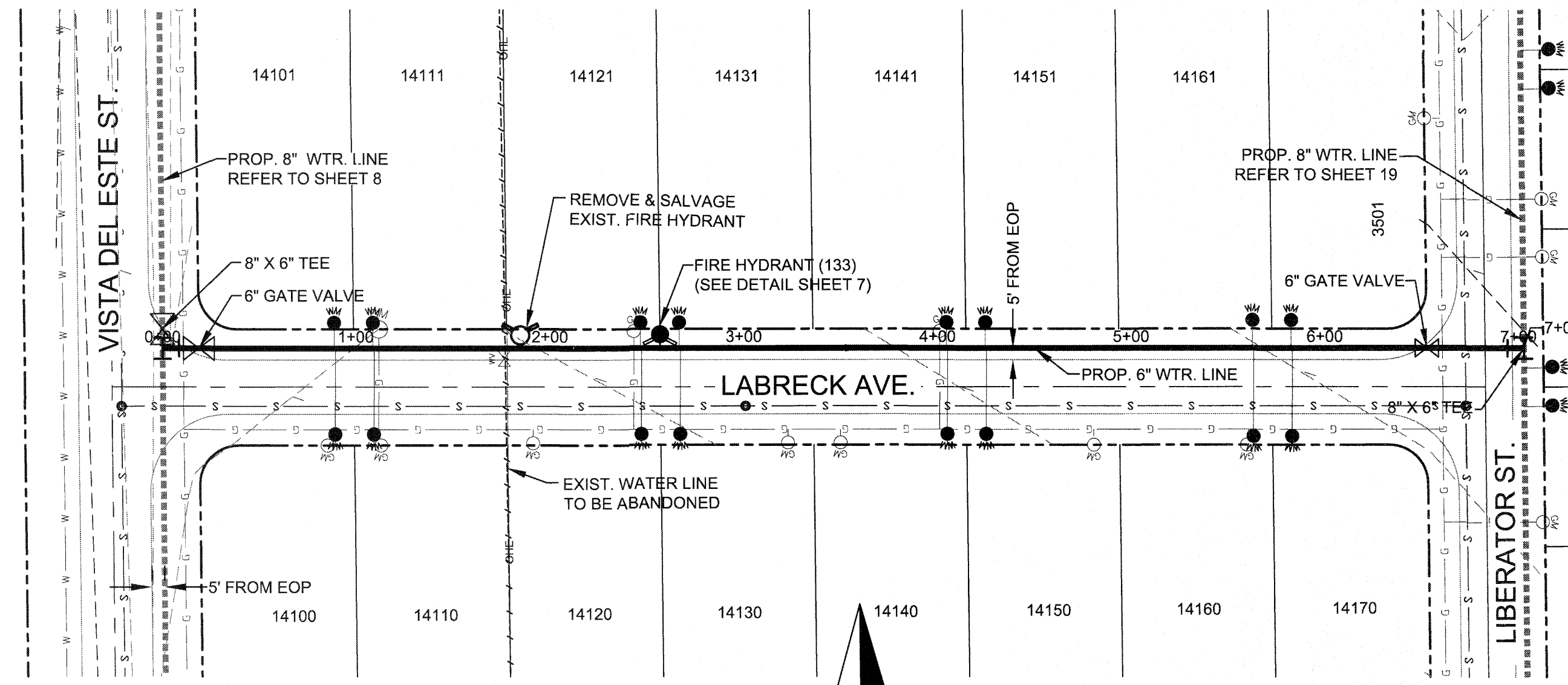
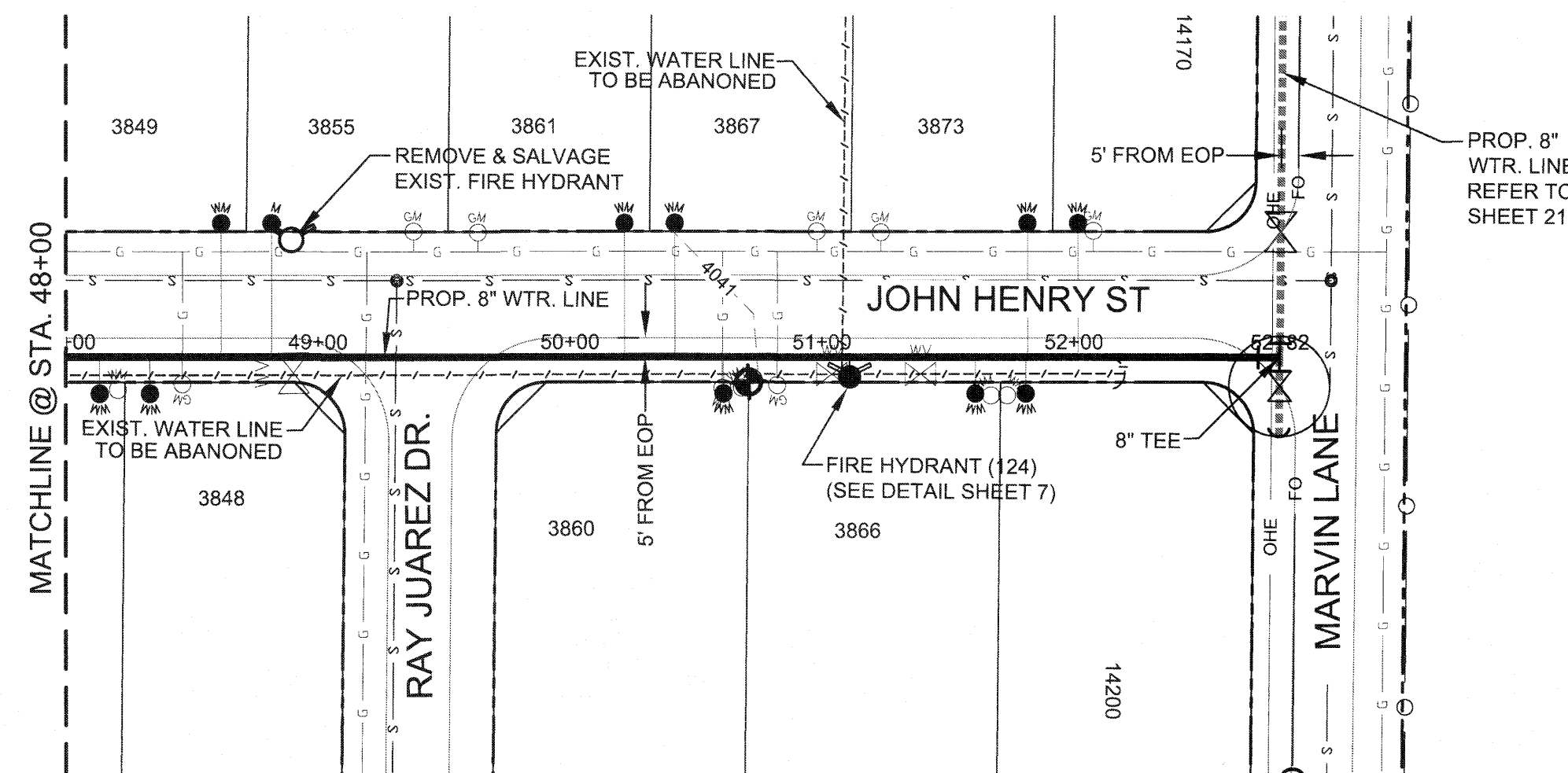
COUNTY OF EL PASO PUBLIC WORKS DEPARTMENT

SHEET TITLE: 8" WATER LINE JOHN HENRY PLAN & PROFILE

SHEET 16 OF 31

REFERENCES: -- BENCHMARKS

REVISIONS: [Blank]



WATER LINE "C"

JOHN HENRY STREET FROM GREG STREET TO MARVIN LANE
 HORIZONTAL SCALE: 1"=60'
 VERTICAL SCALE: 1"=10'

WATER LINE "Q"

LABRECK AVENUE
 HORIZONTAL SCALE: 1"=60'
 VERTICAL SCALE: 1"=10'

- DIG TESS - 1-811
- EL PASO ELECTRIC CO. - 543-2047
- TEXAS GAS SERVICE - 544-6300
- AT&T - 1-800-298-8343
- TIME WARNER CABLE - 772-1123
- ONE CALL - 811 OR 1-800-344-8377
- E.P. COUNTY WATER - 855-1881
- E.P. NATURAL GAS - 471-0124
- SM & P - 1-866-861-7678
- AT&T FIBER OPTICS - 1-817-589-1056
- DELL TELEPHONE COOP. INC. - 1-800-245-2991
- TXNW-ATT/D - 740-6512
- BUCKEYE GULF COAST PIPE LINES - 1-877-530-5685

BEFORE YOU DIG

CONTRACTOR SHALL COORDINATE AND FIELD LOCATE ALL EXISTING UNDERGROUND UTILITIES IN THE PROJECT AREA.
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 CONTRACTOR SHALL NOTIFY ENGINEER OF ANY POSSIBLE CONFLICT 2 WEEKS PRIOR TO TRENCHING IN THAT AREA.

LEGEND

	EXISTING POWER POLE		STREET R.O.W. LINE		PROPOSED CROSS
	EXISTING LIGHT POLE		EXISTING EDGE OF PAVEMENT		PROPOSED TEE
	EXISTING SIGN		EXISTING CABLE LINE		PROPOSED 90° BEND
	EXISTING WATER VALVE		EXISTING WATER LINE		PROPOSED CAP
	EXISTING WATER METER		EXISTING GAS LINE		PROPOSED VALVE
	EXISTING FIRE HYDRANT		EXISTING FENCE OR WALL		PROPOSED FIRE HYDRANT
	EXISTING WASTE WATER MANHOLE		EXISTING OVERHEAD ELECTRIC		PROPOSED WATER METER
	EXISTING TELEPHONE PEDESTAL		EXISTING FIBER OPTIC CABLE		EXISTING TREE
	EXISTING MAILBOX		PROPOSED WATER LINE		EXISTING GAS METER
	EXISTING CONTROL POINTS		EXISTING LOT LINE		
	XXXX STREET ADDRESS				

ENGINEER'S SEAL:

SCALE: _____

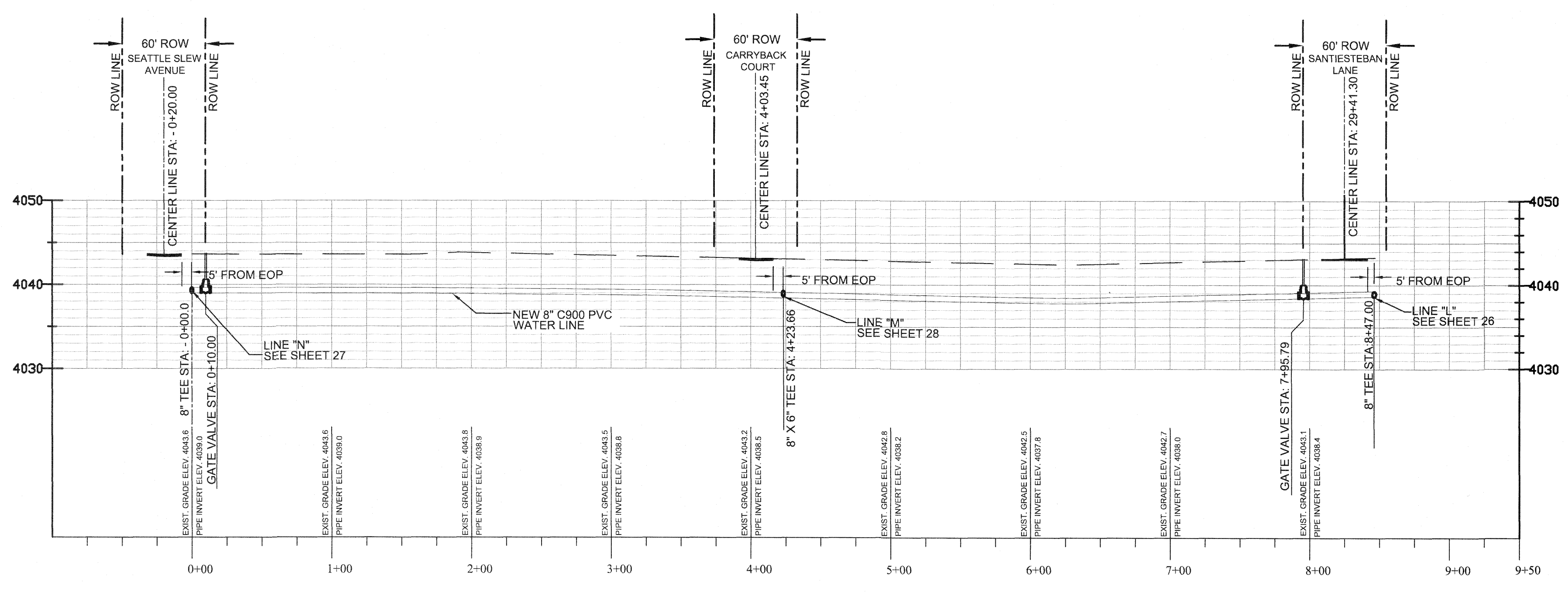
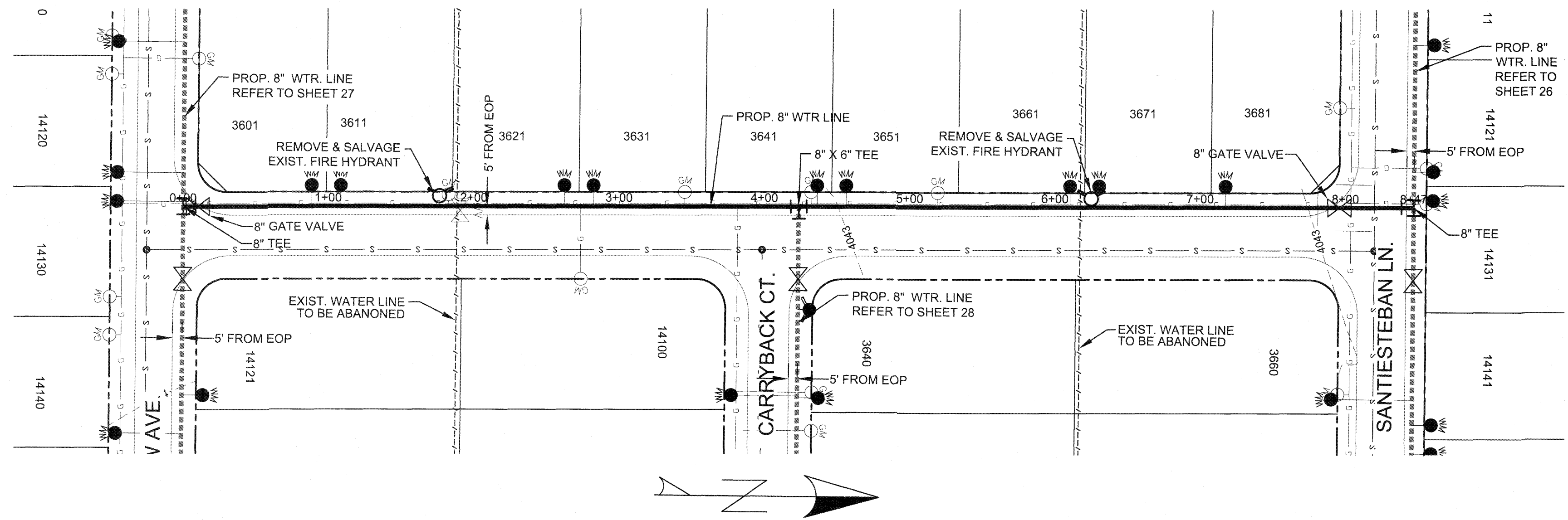
HOR. VER. DATE 09/22/18 DESIGN BY F.H. DRAWN BY A.C. CHKD. BY F.H. APPD. BY F.H.

PROJECT NAME: **VISTA DEL ESTE WATER DISTRIBUTION SYSTEM**

COUNTY OF EL PASO PUBLIC WORKS DEPARTMENT

SHEET TITLE: **8" WATER LINE JOHN HENRY & LABRECK AVE. PLAN & PROFILE**

SHEET 17 OF 31



WATER LINE "D"
 BRAYMAN PLACE
 HORIZONTAL SCALE: 1"=60'
 VERTICAL SCALE: 1"=10'

- DIG TESS - 1-811
- EL PASO ELECTRIC CO. - 543-2047
- TEXAS GAS SERVICE - 544-8300
- AT&T - 1-800-298-8343
- TIME WARNER CABLE - 772-1123
- ONE CALL - 811 OR 1-800-344-8377
- E.P. COUNTY WATER - 855-1681
- E.P. NATURAL GAS - 471-0124
- SM & P - 1-866-961-7678
- AT&T FIBER OPTICS - 1-817-589-1056
- DELL TELEPHONE COOP. INC. - 1-800-245-2991
- TXNW-AT&T - 740-6512
- ONEOK - 740-6512
- BUCKEY GULF COAST PIPE LINES - 1-877-530-5685

BEFORE YOU DIG

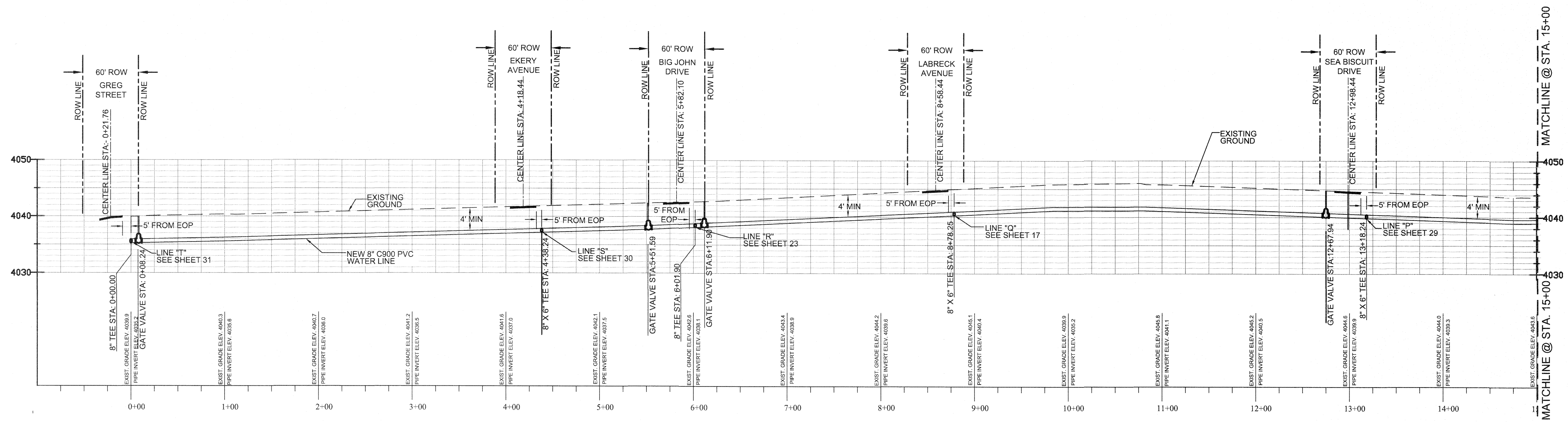
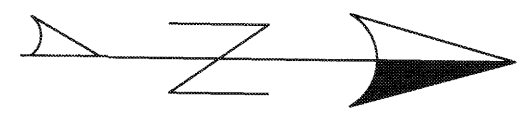
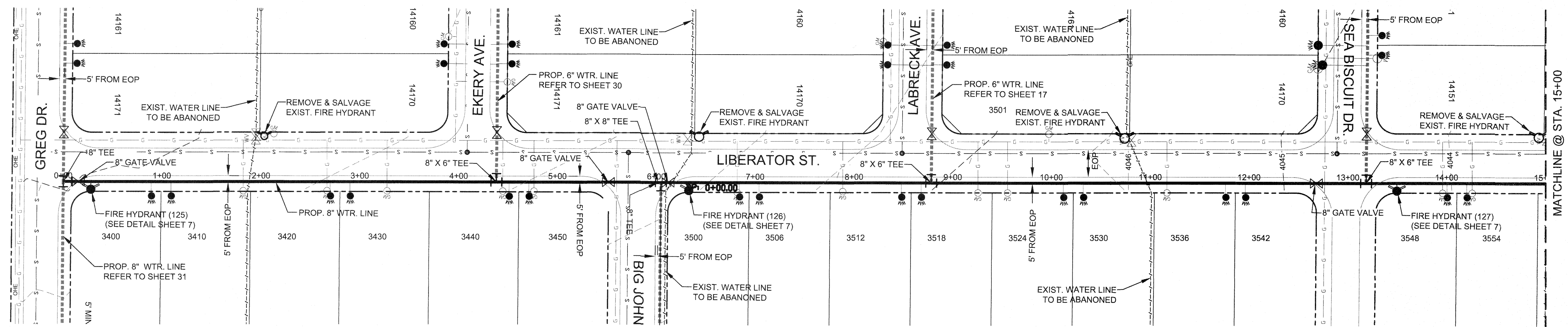
CONTRACTOR SHALL COORDINATE AND FIELD LOCATE ALL EXISTING UNDERGROUND UTILITIES IN THE PROJECT AREA.

CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD LOCATING, POT HOLING AND/OR EXPOSING LINES TO VERIFY POSSIBLE CONFLICTS PRIOR TO ANY EXCAVATING ACTIVITY.

CONTRACTOR SHALL NOTIFY ENGINEER OF ANY POSSIBLE CONFLICT 2 WEEKS PRIOR TO TRENCHING IN THAT AREA.

LEGEND			
	EXISTING POWER POLE		STREET R.O.W. LINE
	EXISTING LIGHT POLE		EXISTING EDGE OF PAVEMENT
	EXISTING SIGN		EXISTING CABLE LINE
	EXISTING WATER VALVE		EXISTING WATER LINE
	EXISTING WATER METER		EXISTING GAS LINE
	EXISTING FIRE HYDRANT		EXISTING FENCE OR WALL
	EXISTING WASTE WATER MANHOLE		EXISTING OVERHEAD ELECTRIC
	EXISTING TELEPHONE PEDESTAL		EXISTING FIBER OPTIC CABLE
	EXISTING MAILBOX		PROPOSED WATER LINE
	EXISTING CONTROL POINTS		EXISTING LOT LINE
	XXXX STREET ADDRESS		PROPOSED CROSS
			PROPOSED TEE
			PROPOSED 90° BEND
			PROPOSED CAP
			PROPOSED VALVE
			PROPOSED FIRE HYDRANT
			PROPOSED WATER METER
			EXISTING TREE
			EXISTING GAS METER

COUNTY OF EL PASO PUBLIC WORKS DEPARTMENT	VISTA DEL ESTE WATER DISTRIBUTION SYSTEM	PROJECT NAME ENGINEER'S SEAL SCALE: DATE: 09/12/18 DESIGN BY: F.H. DRAWN BY: A.G. CHECKED BY: F.H. APPRO. BY: F.H.
		REFERENCES --- BENCHMARKS REVISIONS DATE
SHEET TITLE 8" WATER LINE BRAYMAN PL PLAN & PROFILE		SHEET 18 OF 31



- DIG TESS - 1-811
- EL PASO ELECTRIC CO. - 543-2047
- TEXAS GAS SERVICE - 544-6300
- AT&T - 1-800-286-8343
- TIME WARNER CABLE - 772-1123
- ONE CALL - 811 OR 1-800-344-8377
- F.P. COUNTY WATER - 655-1881
- E.P. NATURAL GAS - 471-0124
- SM & P - 1-866-861-7678
- AT&T FIBER OPTICS - 1-817-589-1056
- DELL TELEPHONE COOP INC. - 1-800-245-2991
- TXNW-ATT/D - 740-6512
- BUCKEYE GULF COAST PIPE LINES - 1-877-530-5685

BEFORE YOU DIG

CONTRACTOR SHALL COORDINATE AND FIELD LOCATE ALL EXISTING UNDERGROUND UTILITIES IN THE PROJECT AREA.

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WATER LINE "E"

LIBERATOR STREET
FROM GREG STREET TO SEA BISCUIT AVENUE

HORIZONTAL SCALE: 1"=60'
VERTICAL SCALE: 1"=10'

LEGEND

	EXISTING POWER POLE		STREET R.O.W. LINE		PROPOSED CROSS
	EXISTING LIGHT POLE		EXISTING EDGE OF PAVEMENT		PROPOSED TEE
	EXISTING SIGN		CATV		PROPOSED 90° BEND
	EXISTING WATER VALVE		EXISTING WATER LINE		PROPOSED CAP
	EXISTING WATER METER		EXISTING GAS LINE		PROPOSED VALVE
	EXISTING FIRE HYDRANT		EXISTING FENCE OR WALL		PROPOSED FIRE HYDRANT
	EXISTING WASTE WATER MANHOLE		EXISTING OVERHEAD ELECTRIC		PROPOSED WATER METER
	EXISTING TELEPHONE PEDESTAL		EXISTING FIBER OPTIC CABLE		EXISTING TREE
	EXISTING MAILBOX		PROPOSED WATER LINE		EXISTING GAS METER
	EXISTING CONTROL POINTS		EXISTING LOT LINE		
	XXXX STREET ADDRESS				

REFERENCES --- BENCHMARKS

ENGINEER'S SEAL

SCALE: HORIZ. VERT.

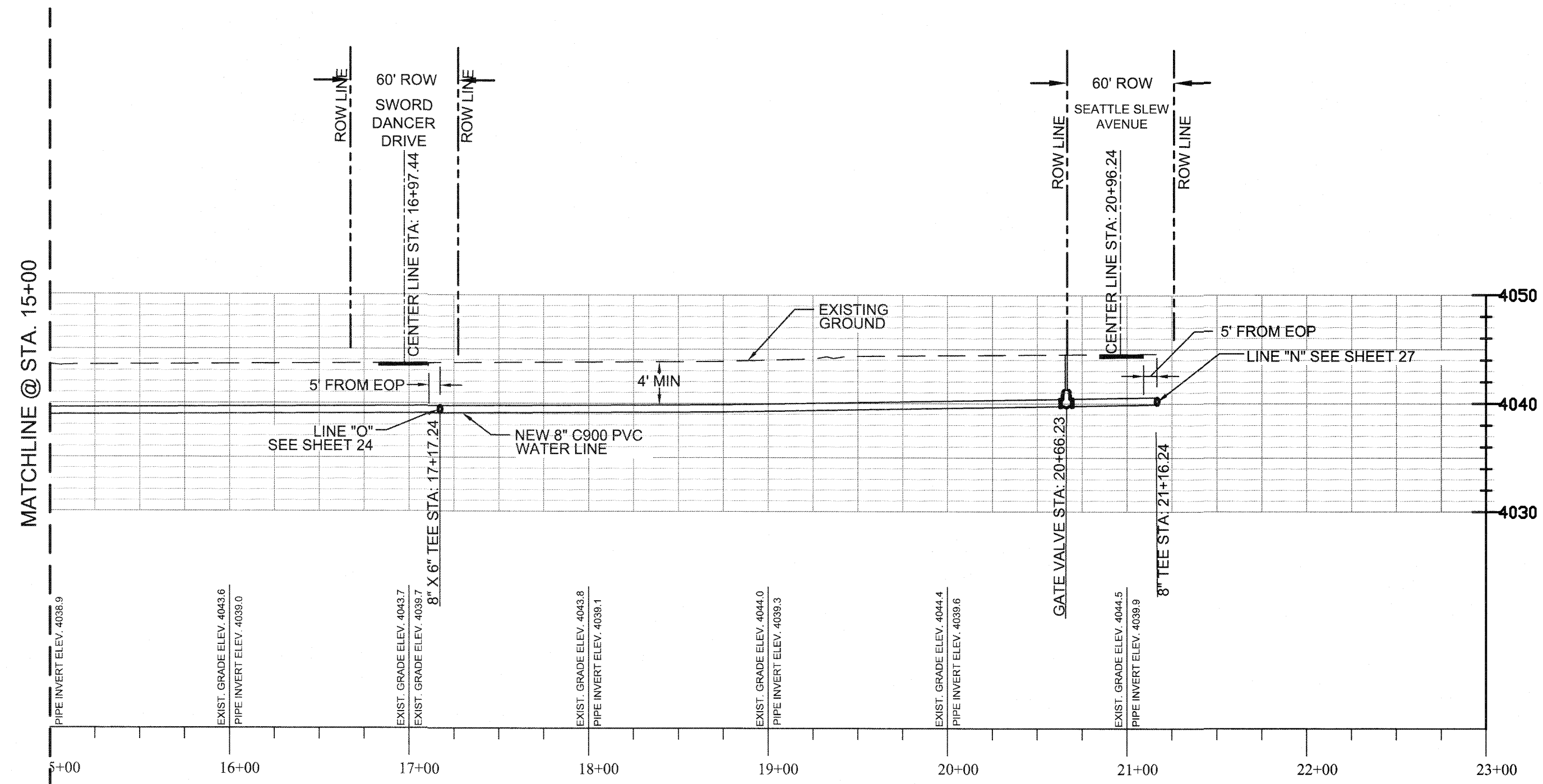
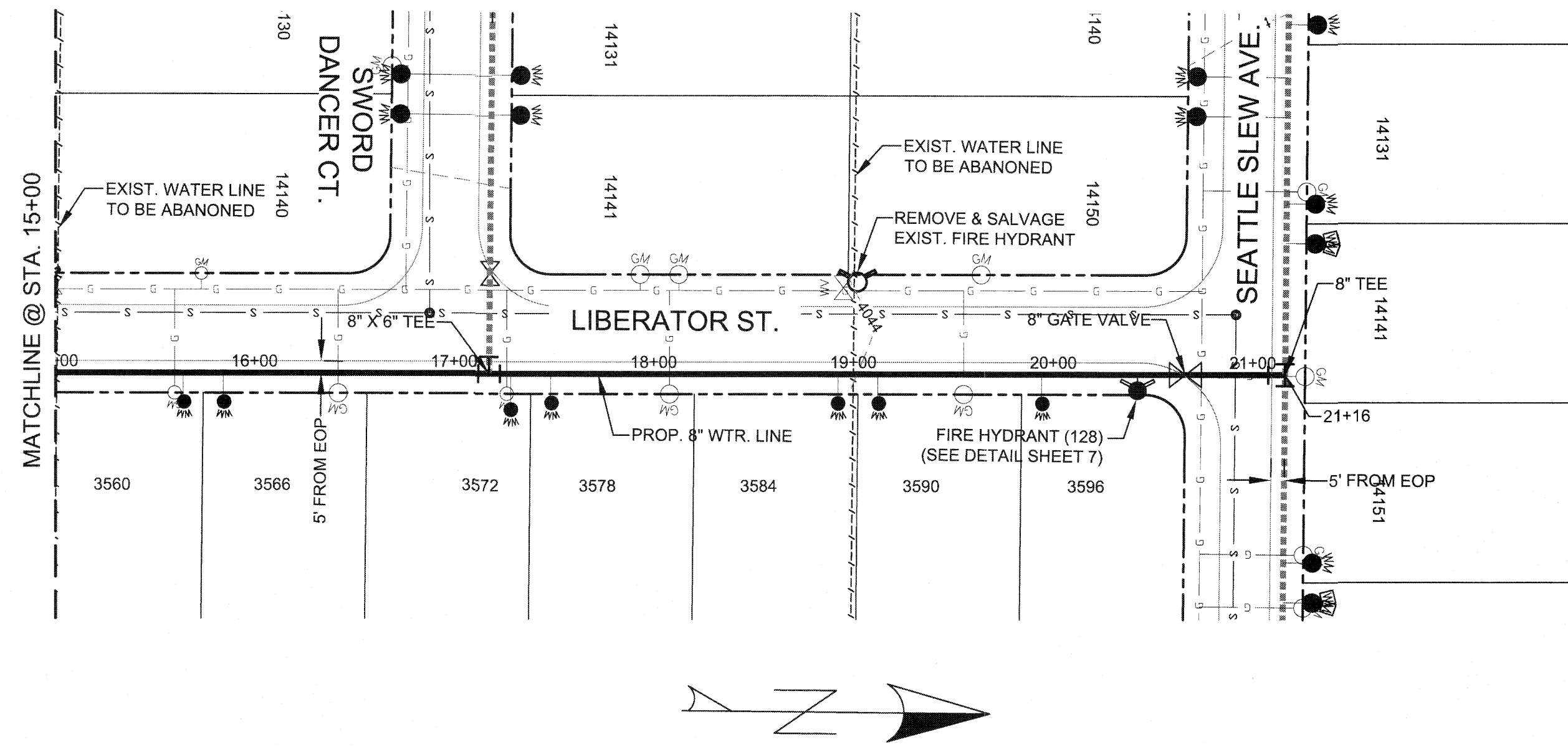
DATE 09/12/18
DESIGN BY F.H.
DRAWN BY A.G.
CHKD. BY F.H.
APPD. BY F.H.

PROJECT NAME
**VISTA DEL ESTE
WATER DISTRIBUTION SYSTEM**

COUNTY OF EL PASO
PUBLIC WORKS DEPARTMENT

SHEET TITLE
**8" WATER LINE
LIBERATOR ST.
PLAN & PROFILE**

SHEET
19 OF 31



WATER LINE "E"

LIBERATOR STREET FROM GREG TO SEATTLE SLEW
 HORIZONTAL SCALE: 1"=60'
 VERTICAL SCALE: 1"=10'

- DIG TESS - 1-811
- EL PASO ELECTRIC CO. - 543-2047
- TEXAS GAS SERVICE - 544-5300
- AT&T - 1-800-286-6343
- TIME WARNER CABLE - 772-1123
- ONE CALL - 811 OR 1-800-344-8377
- E.P. COUNTY WATER - 855-1681
- E.P. NATURAL GAS - 471-0124
- SM & P - 1-866-861-7678
- AT&T FIBER OPTICS - 1-817-589-1056
- DELL TELEPHONE COOP. INC. - 1-800-245-2991
- TXNW-ATT/D -
- ONEOK - 740-6512
- BUCKEYE GULF COAST PIPE LINES - 1-877-530-5885

BEFORE YOU DIG

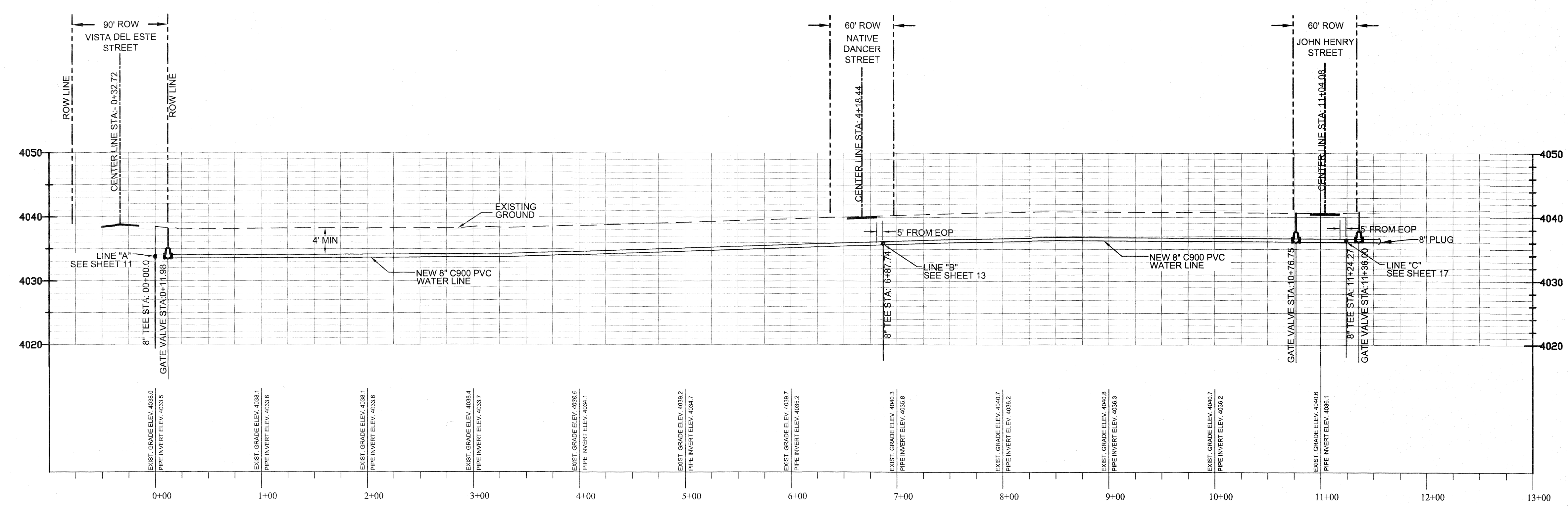
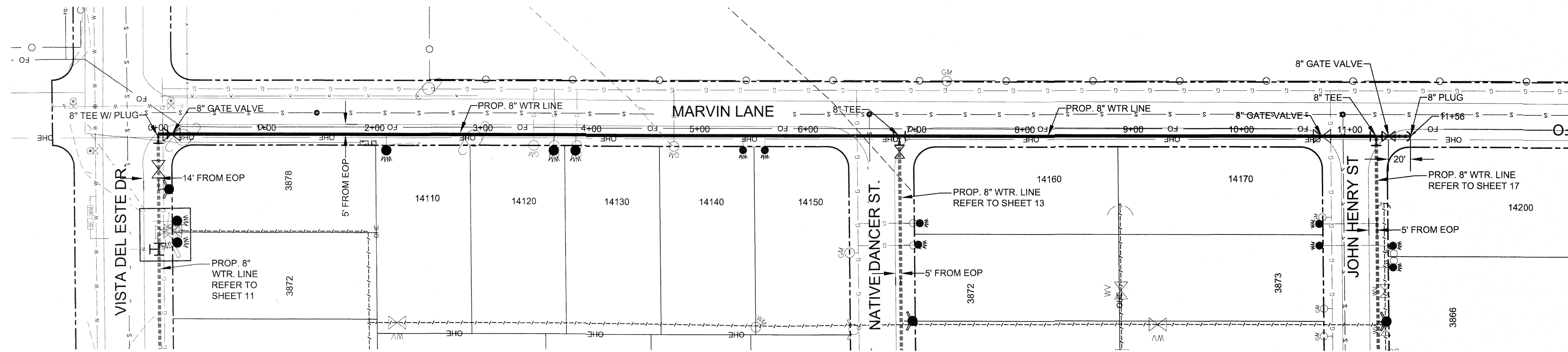
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LEGEND			
	EXISTING POWER POLE		STREET R.O.W. LINE
	EXISTING LIGHT POLE		EXISTING EDGE OF PAVEMENT
	EXISTING SIGN		EXISTING CABLE LINE
	EXISTING WATER VALVE		EXISTING WATER LINE
	EXISTING WATER METER		EXISTING GAS LINE
	EXISTING FIRE HYDRANT		EXISTING FENCE OR WALL
	EXISTING WASTE WATER MANHOLE		EXISTING OVERHEAD ELECTRIC
	EXISTING TELEPHONE PEDESTAL		EXISTING FIBER OPTIC CABLE
	EXISTING MAILBOX		PROPOSED WATER LINE
	EXISTING CONTROL POINTS		EXISTING LOT LINE
XXXX	STREET ADDRESS		PROPOSED CROSS
			PROPOSED TEE
			PROPOSED 90° BEND
			PROPOSED CAP
			PROPOSED VALVE
			PROPOSED FIRE HYDRANT
			PROPOSED WATER METER
			EXISTING TREE
			EXISTING GAS METER

COUNTY OF EL PASO PUBLIC WORKS DEPARTMENT	VISTA DEL ESTE WATER DISTRIBUTION SYSTEM	PROJECT NAME	REFERENCES: BENCHMARKS:
		ENGINEER'S SEAL 	
SHEET TITLE 8" WATER LINE LIBERATOR ST. PLAN & PROFILE		SCALE: HOR: _____ VER: _____ DATE: 09/12/18 DESIGN BY: F.H. DRAWN BY: A.G. CHD. BY: F.H. APPD. BY: F.H.	
SHEET 20 OF 31		REVISIONS DATE _____ BY _____ DATE _____ BY _____ DATE _____ BY _____	



- BEFORE YOU DIG**
- DIG TESS - 1-811
 - EL PASO ELECTRIC CO. - 543-2047
 - TEXAS GAS SERVICE - 544-6300
 - AT&T - 1-800-286-8343
 - TIME WARNER CABLE - 772-1123
 - ONE CALL - 811 OR 1-800-344-8377
 - E.P. COUNTY WATER - 855-1881
 - E.P. NATURAL GAS - 471-0124
 - SM & P - 1-866-961-7678
 - AT&T FIBER OPTICS - 1-817-589-1056
 - DELL TELEPHONE COOP. INC. - 1-800-245-2991
 - TXNW-ATT/D - 740-6512
 - ONEOK - 1-877-530-5685
 - BUCKEYE GULF COAST PIPE LINES - 1-877-530-5685

BEFORE YOU DIG

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WATER LINE "F"
 MARVIN DRIVE FROM VISTA DEL ESTE TO JOHN HENRY STREET
 HORIZONTAL SCALE: 1"=60'
 VERTICAL SCALE: 1"=10'

LEGEND

	EXISTING POWER POLE		STREET R.O.W. LINE		PROPOSED CROSS
	EXISTING LIGHT POLE		EXISTING EDGE OF PAVEMENT		PROPOSED TEE
	EXISTING SIGN		EXISTING CABLE LINE		PROPOSED 90° BEND
	EXISTING WATER VALVE		EXISTING WATER LINE		PROPOSED CAP
	EXISTING WATER METER		EXISTING GAS LINE		PROPOSED VALVE
	EXISTING FIRE HYDRANT		EXISTING FENCE OR WALL		PROPOSED FIRE HYDRANT
	EXISTING WASTE WATER MANHOLE		EXISTING OVERHEAD ELECTRIC		PROPOSED WATER METER
	EXISTING TELEPHONE PEDESTAL		EXISTING FIBER OPTIC CABLE		EXISTING TREE
	EXISTING MAILBOX		PROPOSED WATER LINE		EXISTING GAS METER
	EXISTING CONTROL POINTS		EXISTING LOT LINE		
	XXXX STREET ADDRESS				

ENGINEER'S SEAL: FERNANDO HERNANDEZ, JR. 102527 LICENSE NO. 102527

DATE: 09/12/18
 DESIGN BY: F.H.
 DRAWN BY: A.G.
 CHKD. BY: F.H.
 APPD. BY: F.H.

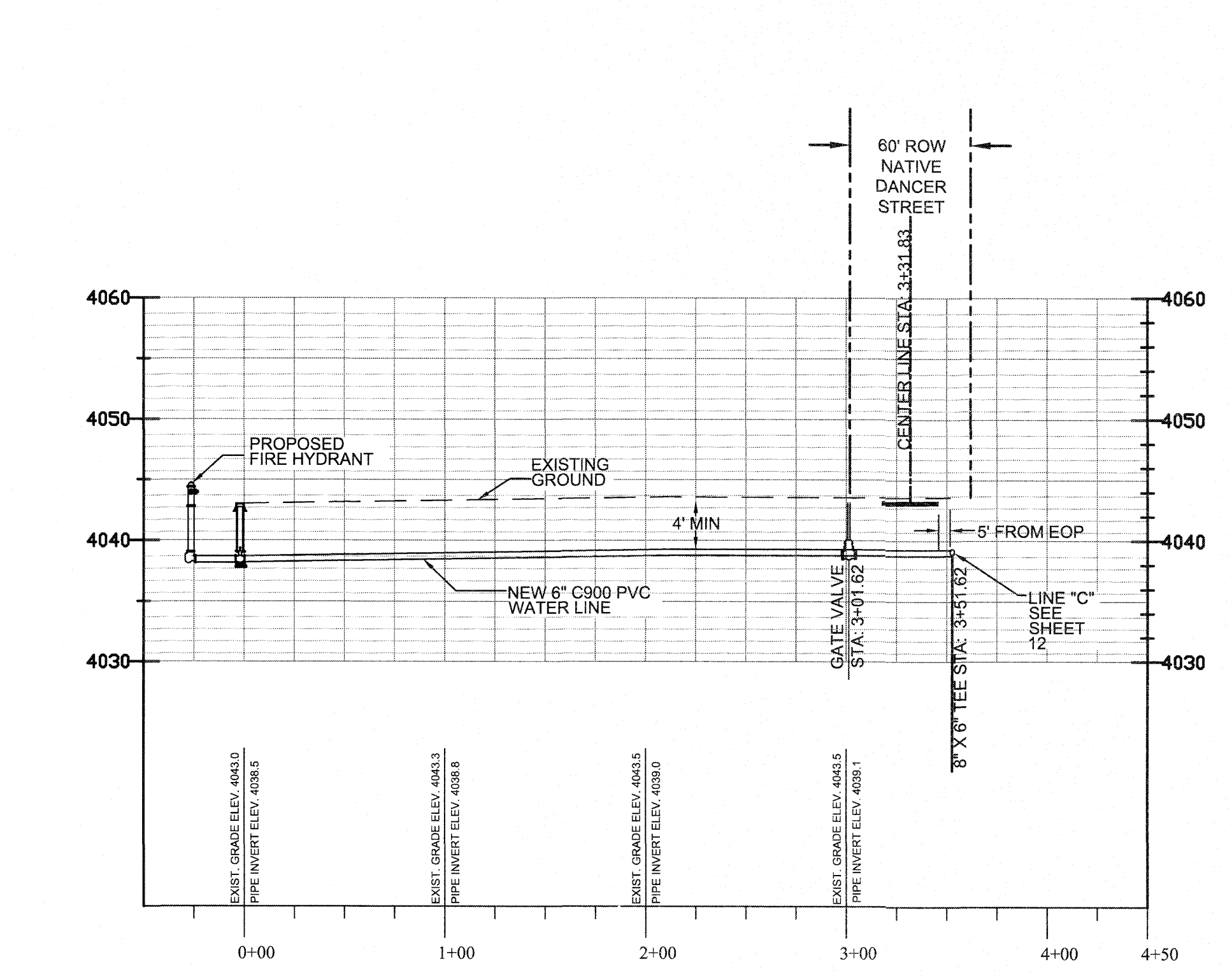
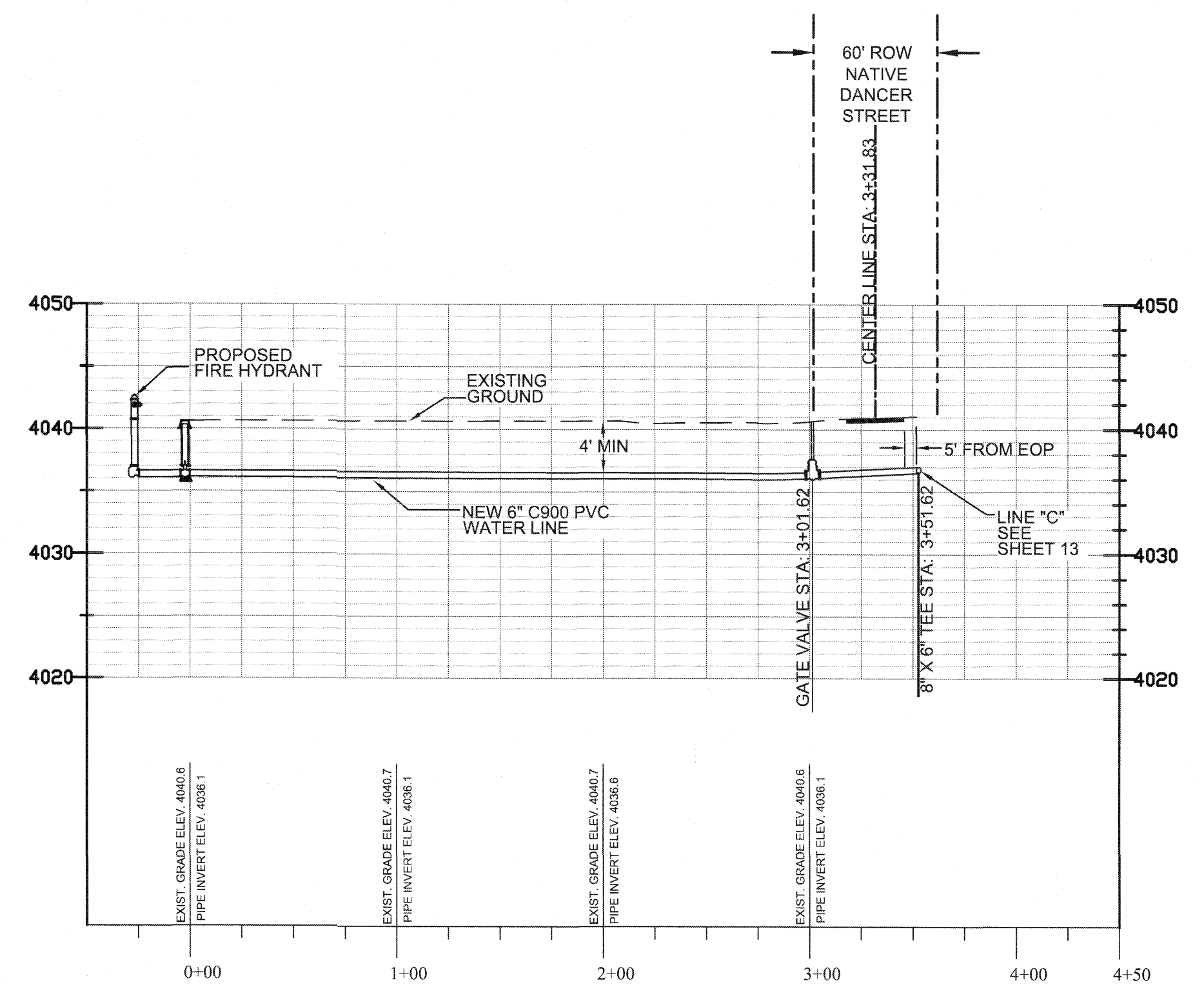
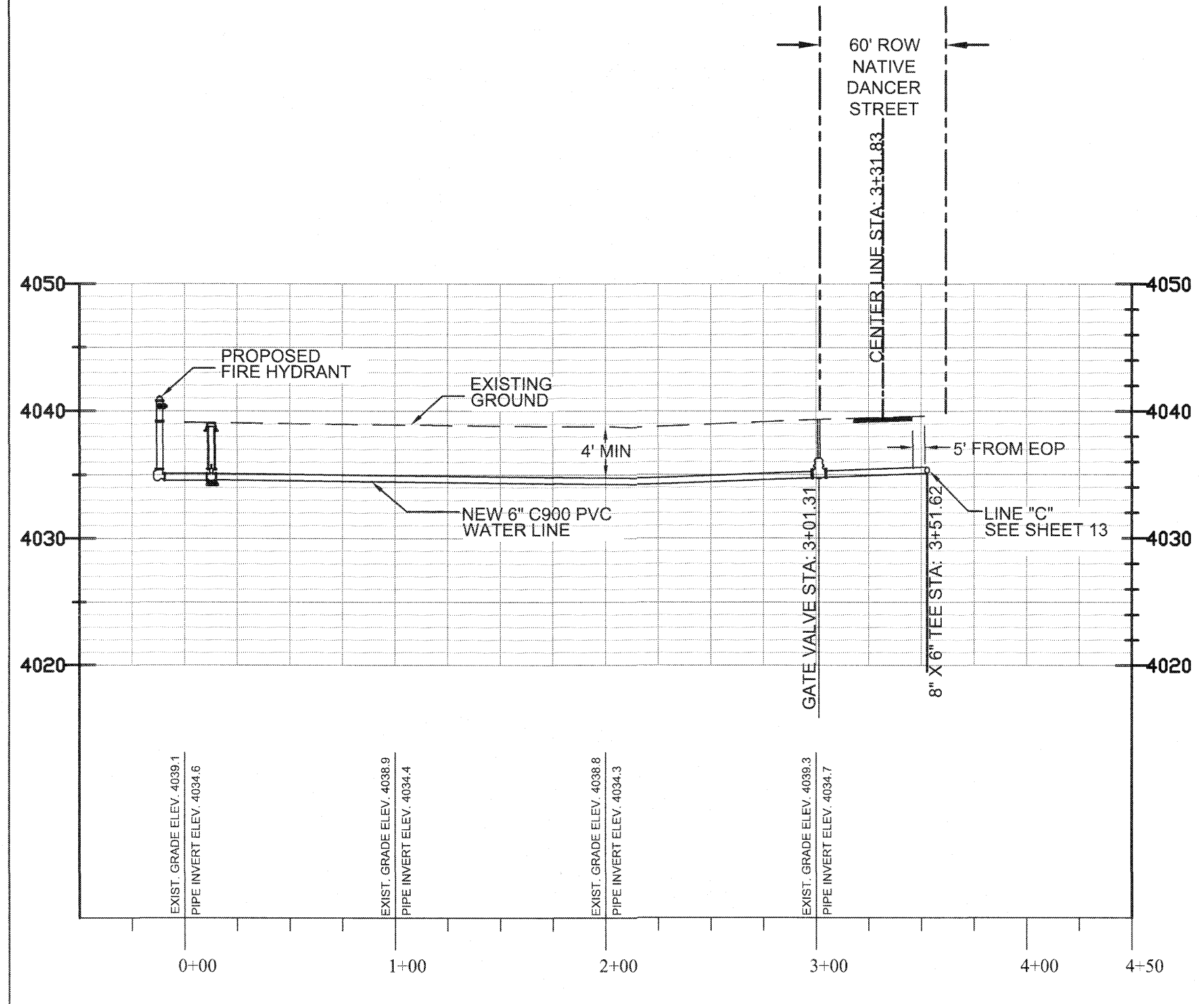
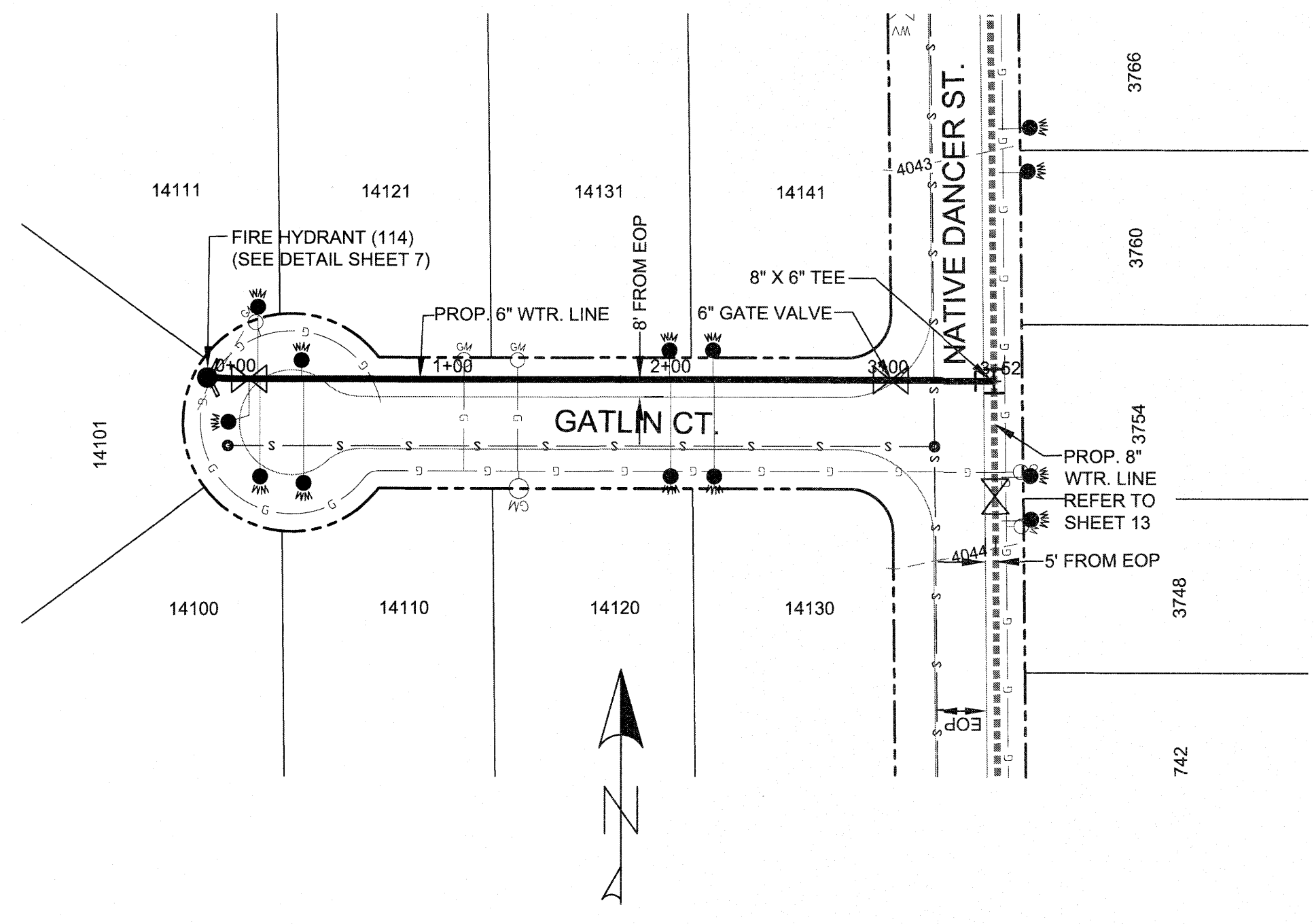
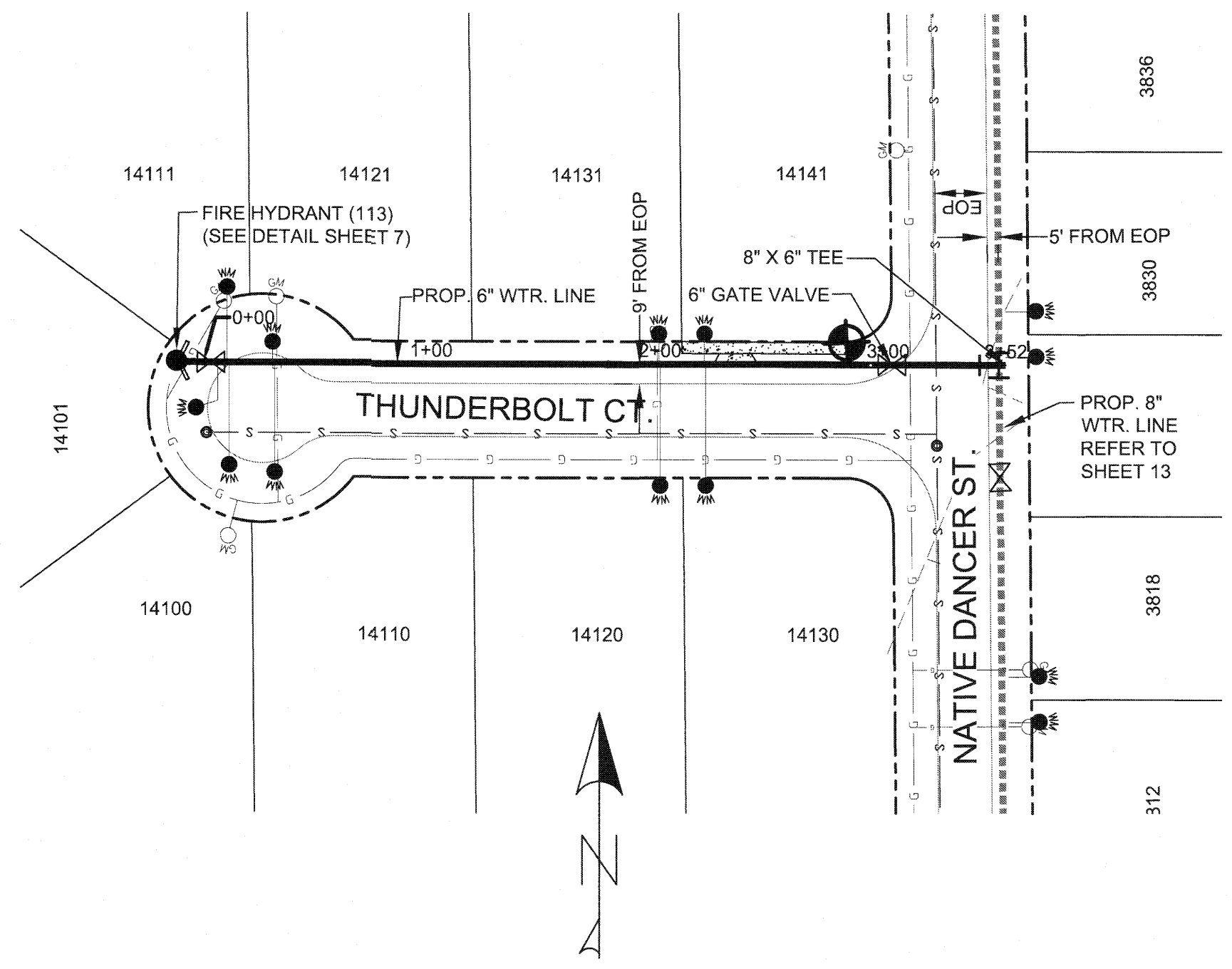
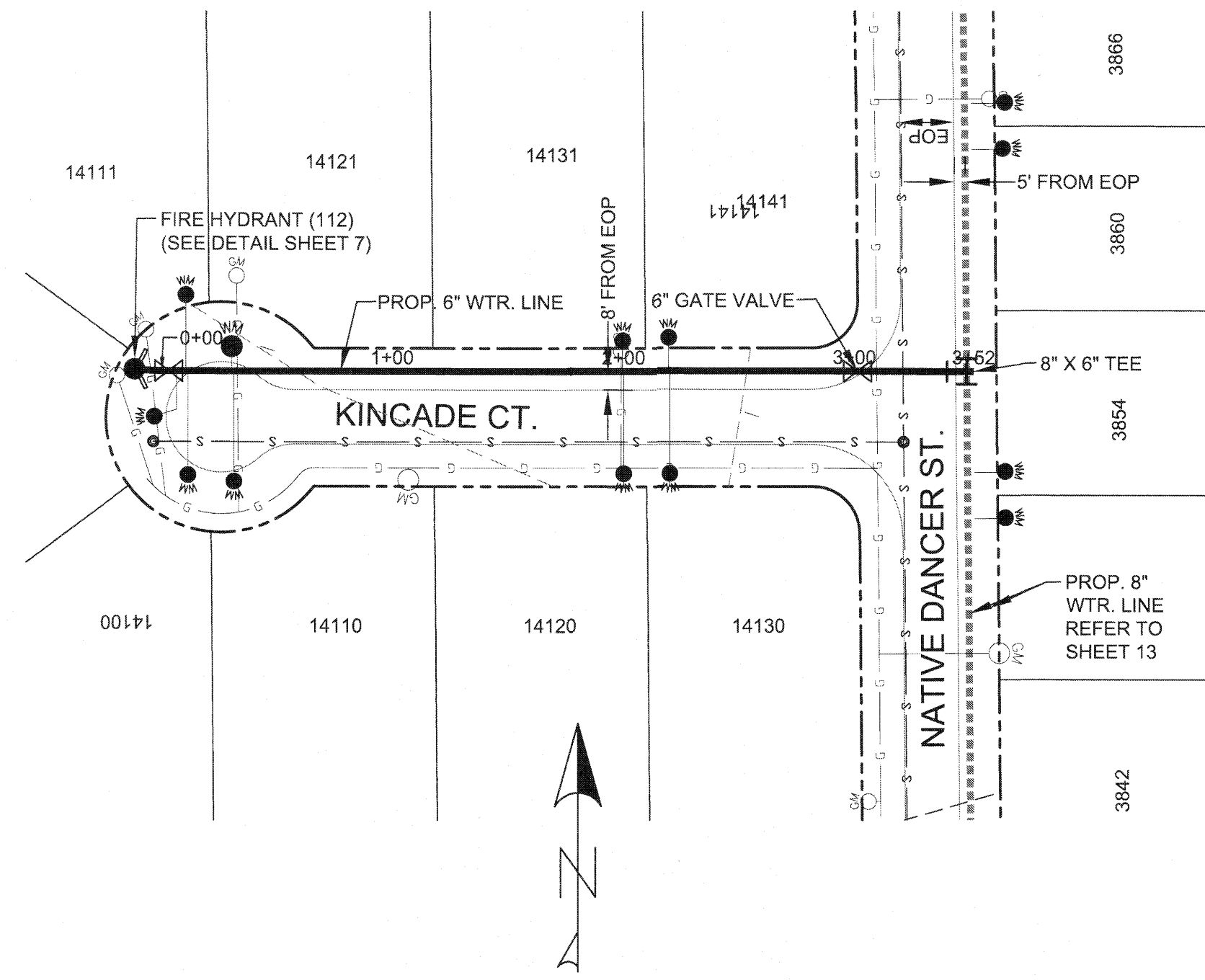
SCALE: HORIZ. VER.

PROJECT NAME: VISTA DEL ESTE WATER DISTRIBUTION SYSTEM

COUNTY OF EL PASO PUBLIC WORKS DEPARTMENT

SHEET TITLE: 8" WATER LINE MARVIN LANE PLAN & PROFILE

SHEET 21 OF 31



WATER LINE "G"
KINCAIDE CT.
HORIZONTAL SCALE: 1"=60'
VERTICAL SCALE: 1"=10'

WATER LINE "H"
THUNDERBOLT CT.
HORIZONTAL SCALE: 1"=60'
VERTICAL SCALE: 1"=10'

WATER LINE "J"
GATLIN CT.
HORIZONTAL SCALE: 1"=60'
VERTICAL SCALE: 1"=10'

DIG TESS	1-811
EL PASO ELECTRIC CO.	543-2047
TEXAS GAS SERVICE	544-6300
AT&T	1-800-286-8343
TIME WARNER CABLE	772-1123
ONE CALL	811 OR 1-800-344-8377
E.P. COUNTY WATER	855-1681
E.P. NATURAL GAS	471-0124
SM & P	1-866-961-7678
AT&T FIBER OPTICS	1-817-589-1056
DELL TELEPHONE	
COOP INC.	1-800-245-2991
TXNW-ATT/D	
ONEOK	740-6512
BUCKEYE GULF COAST PIPE LINES	1-877-530-5685

BEFORE YOU DIG

CONTRACTOR SHALL COORDINATE AND FIELD LOCATE ALL EXISTING UNDERGROUND UTILITIES IN THE PROJECT AREA.

CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD LOCATING POT HOLLING AND/OR EXPOSING LINES TO VERIFY POSSIBLE CONFLICTS PRIOR TO ANY EXCAVATING ACTIVITY.

CONTRACTOR SHALL NOTIFY ENGINEER OF ANY POSSIBLE CONFLICT 2 WEEKS PRIOR TO TRENCHING IN THAT AREA.

LEGEND

	EXISTING POWER POLE		STREET R.O.W. LINE		PROPOSED CROSS
	EXISTING LIGHT POLE		EXISTING EDGE OF PAVEMENT		PROPOSED TEE
	EXISTING SIGN		EXISTING CABLE LINE		PROPOSED 90° BEND
	EXISTING WATER VALVE		EXISTING WATER LINE		PROPOSED CAP
	EXISTING WATER METER		EXISTING GAS LINE		PROPOSED VALVE
	EXISTING FIRE HYDRANT		EXISTING FENCE OR WALL		PROPOSED FIRE HYDRANT
	EXISTING WASTE WATER MANHOLE		EXISTING OVERHEAD ELECTRIC		PROPOSED WATER METER
	EXISTING TELEPHONE PEDESTAL		EXISTING FIBER OPTIC CABLE		EXISTING TREE
	EXISTING MAILBOX		PROPOSED WATER LINE		EXISTING GAS METER
	EXISTING CONTROL POINTS		EXISTING LOT LINE		
	XXXX STREET ADDRESS				

ENGINEER'S SEAL: [Professional Seal of El Paso County, Texas, License No. 102527]

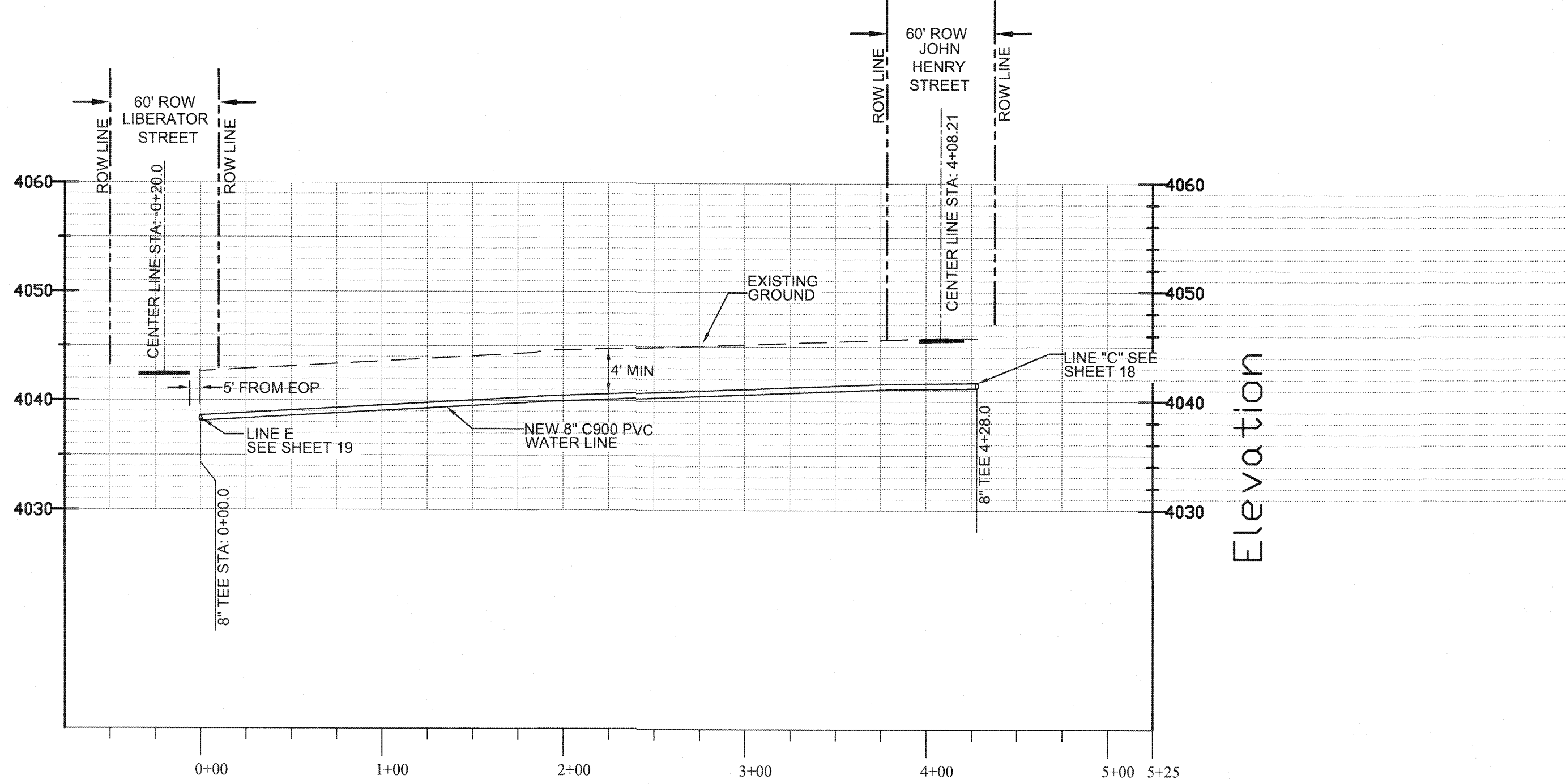
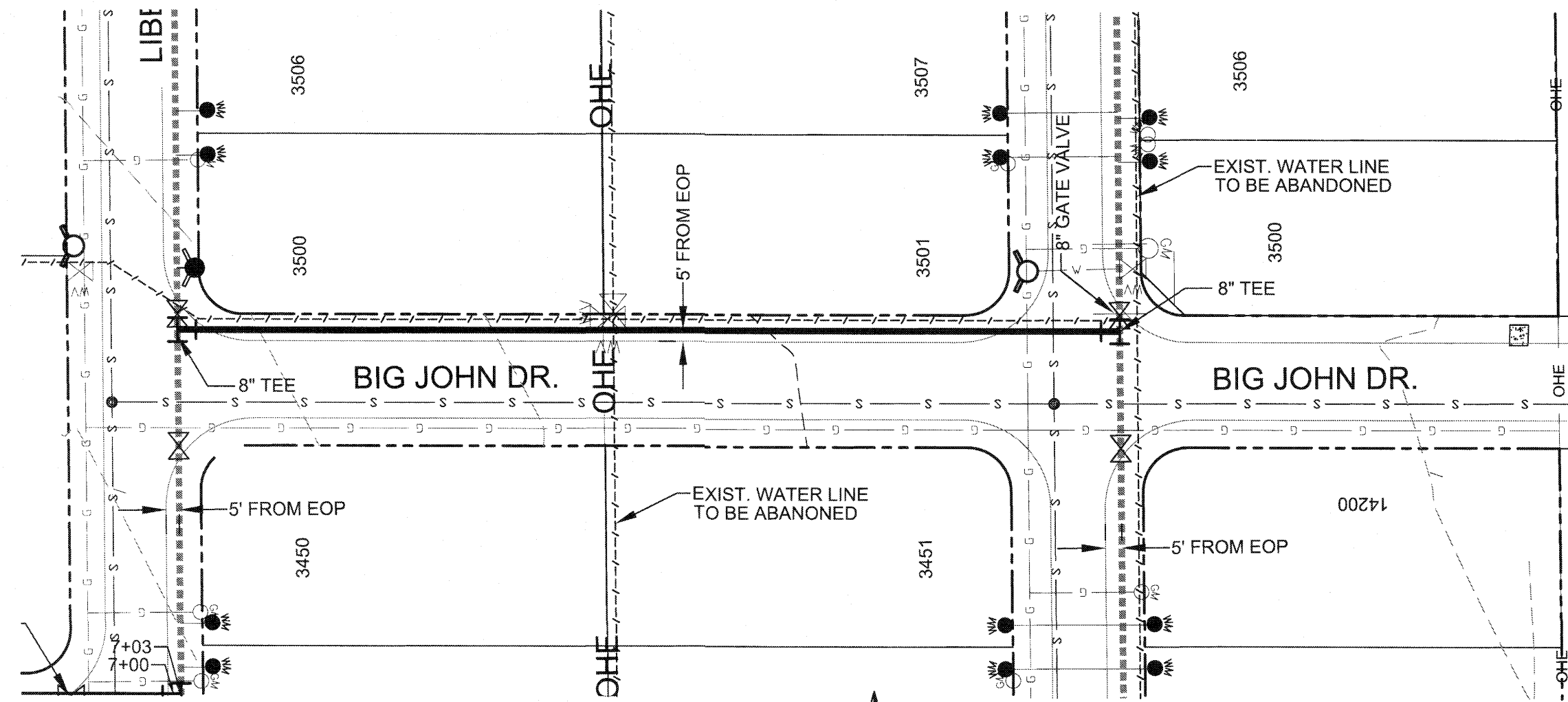
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DATE: 09/12/18
DESIGN BY: F.H.
DRAWN BY: A.G.
CHKD. BY: F.H.
APPD. BY: F.H.

PROJECT NAME: **VISTA DEL ESTE WATER DISTRIBUTION SYSTEM**

SHEET TITLE: **6" WATER LINE KINCAIDE CT. THUNDERBOLT CT. GATLIN CT. PLAN & PROFILE**

SHEET 22 OF 31



WATER LINE "R"
 BIG JOHN DRIVE
 HORIZONTAL SCALE: 1"=60'
 VERTICAL SCALE: 1"=10'

- DIG TESS - 1-811
- EL PASO ELECTRIC CO. - 543-2047
- TEXAS GAS SERVICE - 544-6300
- AT&T - 1-800-286-8343
- TIME WARNER CABLE - 772-1123
- ONE CALL - 811 OR 1-800-344-8377
- E.P. COUNTY WATER - 855-1681
- E.P. NATURAL GAS - 471-0124
- SM & P - 1-866-861-7678
- AT&T FIBER OPTICS - 1-817-599-1056
- DELL TELEPHONE COOP INC. - 1-800-245-2991
- TXNVI-ATT/D - 740-6512
- ONEOK - 1-800-245-2991
- BUCKEYE GULF COAST PIPE LINES - 1-877-530-5685

BEFORE YOU DIG

CONTRACTOR SHALL COORDINATE AND FIELD LOCATE ALL EXISTING UNDERGROUND UTILITIES IN THE PROJECT AREA.

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CONTRACTOR SHALL NOTIFY ENGINEER OF ANY POSSIBLE CONFLICT 2 WEEKS PRIOR TO TRENCHING IN THAT AREA.

LEGEND			
	EXISTING POWER POLE		STREET R.O.W. LINE
	EXISTING LIGHT POLE		EXISTING EDGE OF PAVEMENT
	EXISTING SIGN		EXISTING CABLE LINE
	EXISTING WATER VALVE		EXISTING WATER LINE
	EXISTING WATER METER		EXISTING GAS LINE
	EXISTING FIRE HYDRANT		EXISTING FENCE OR WALL
	EXISTING WASTE WATER MANHOLE		EXISTING OVERHEAD ELECTRIC
	EXISTING TELEPHONE PEDESTAL		EXISTING FIBER OPTIC CABLE
	EXISTING MAILBOX		PROPOSED WATER LINE
	EXISTING CONTROL POINTS		EXISTING LOT LINE
	XXXX STREET ADDRESS		PROPOSED CROSS
			PROPOSED TEE
			PROPOSED 90° BEND
			PROPOSED CAP
			PROPOSED VALVE
			PROPOSED FIRE HYDRANT
			PROPOSED WATER METER
			EXISTING TREE
			EXISTING GAS METER

ENGINEER: EDUARDO HERNANDEZ, INC. 102527

SCALE: 1"=60'

DATE: 09/12/18

DESIGN BY: F.H.

DRAWN BY: A.G.

CHKD. BY: F.H.

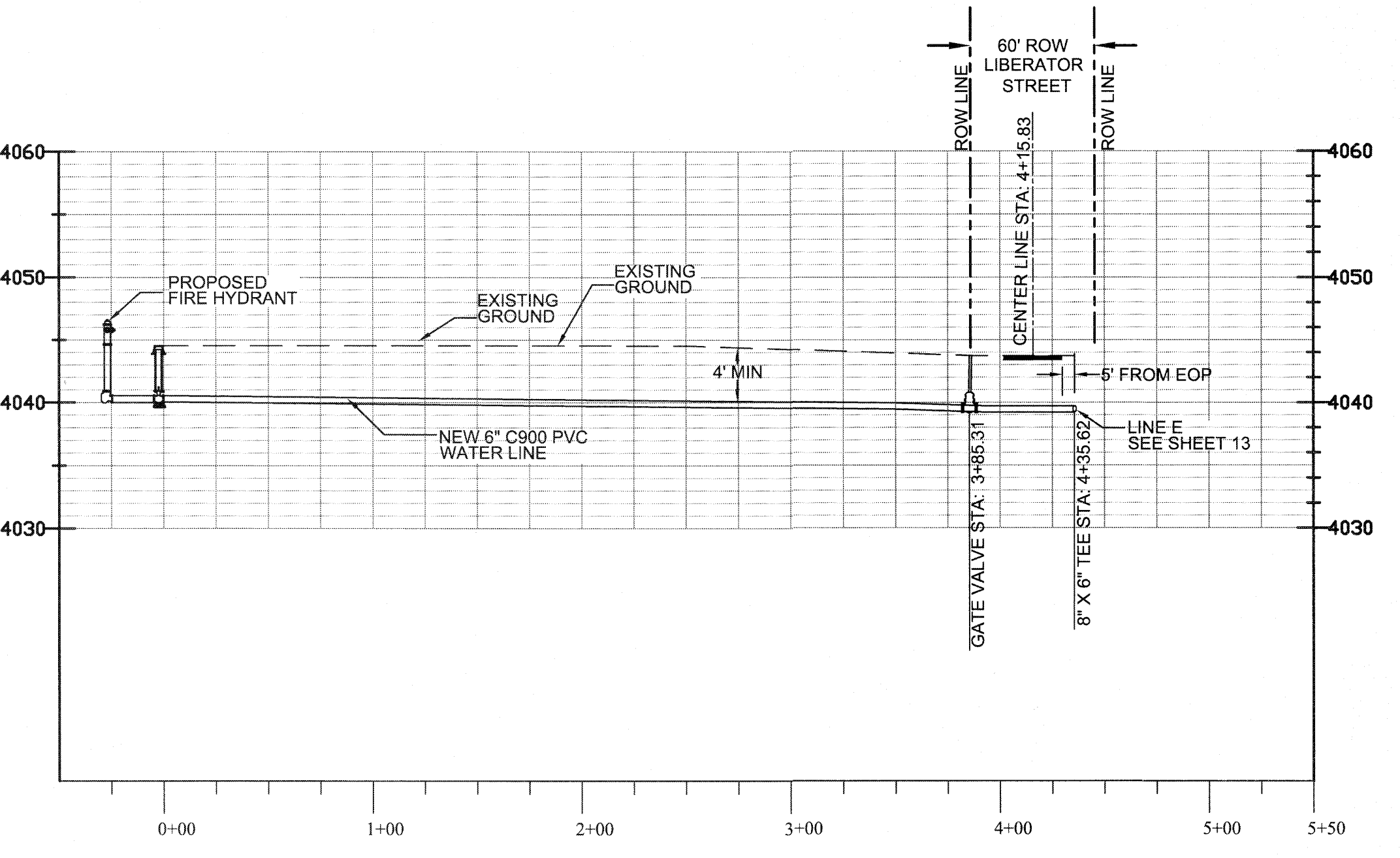
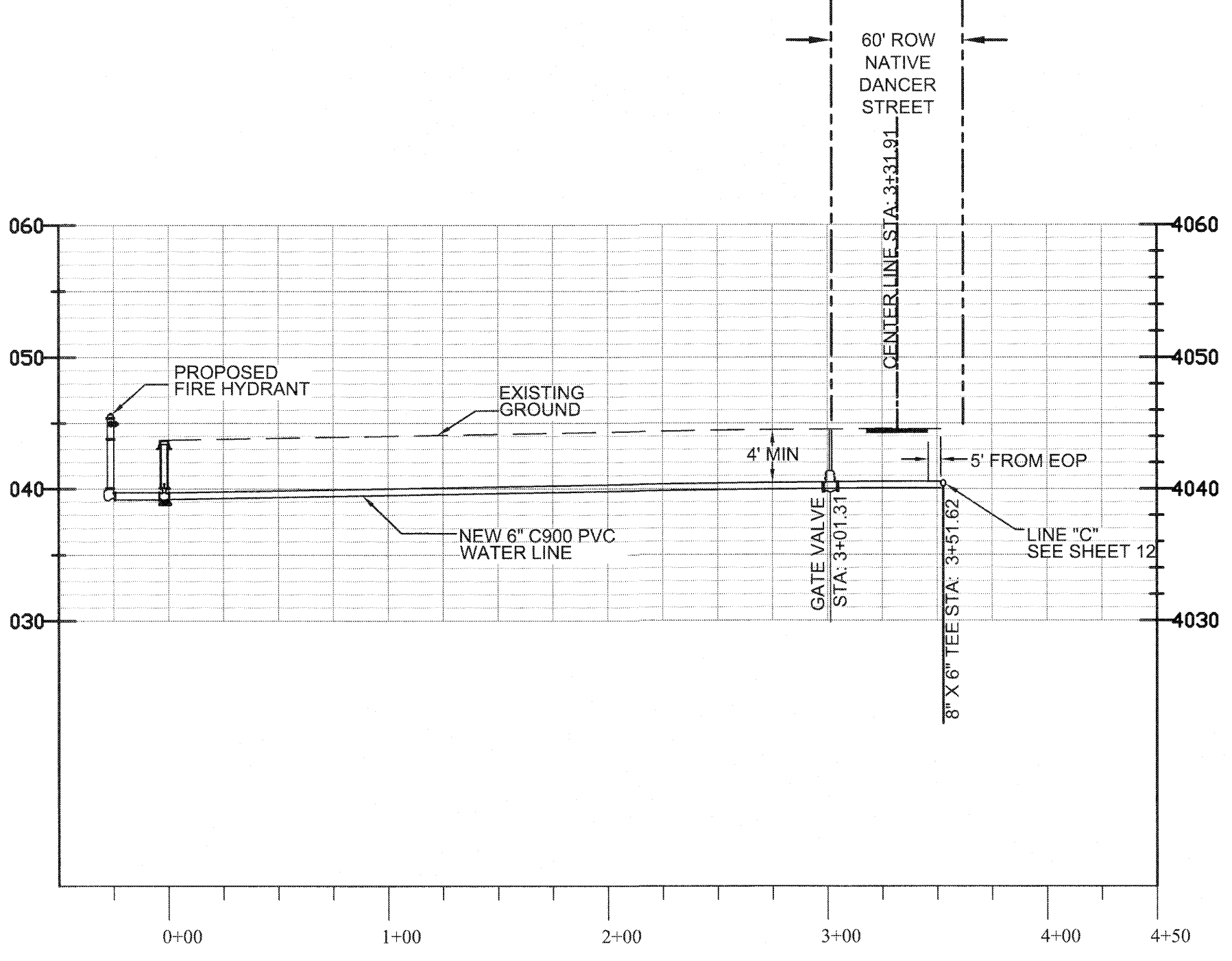
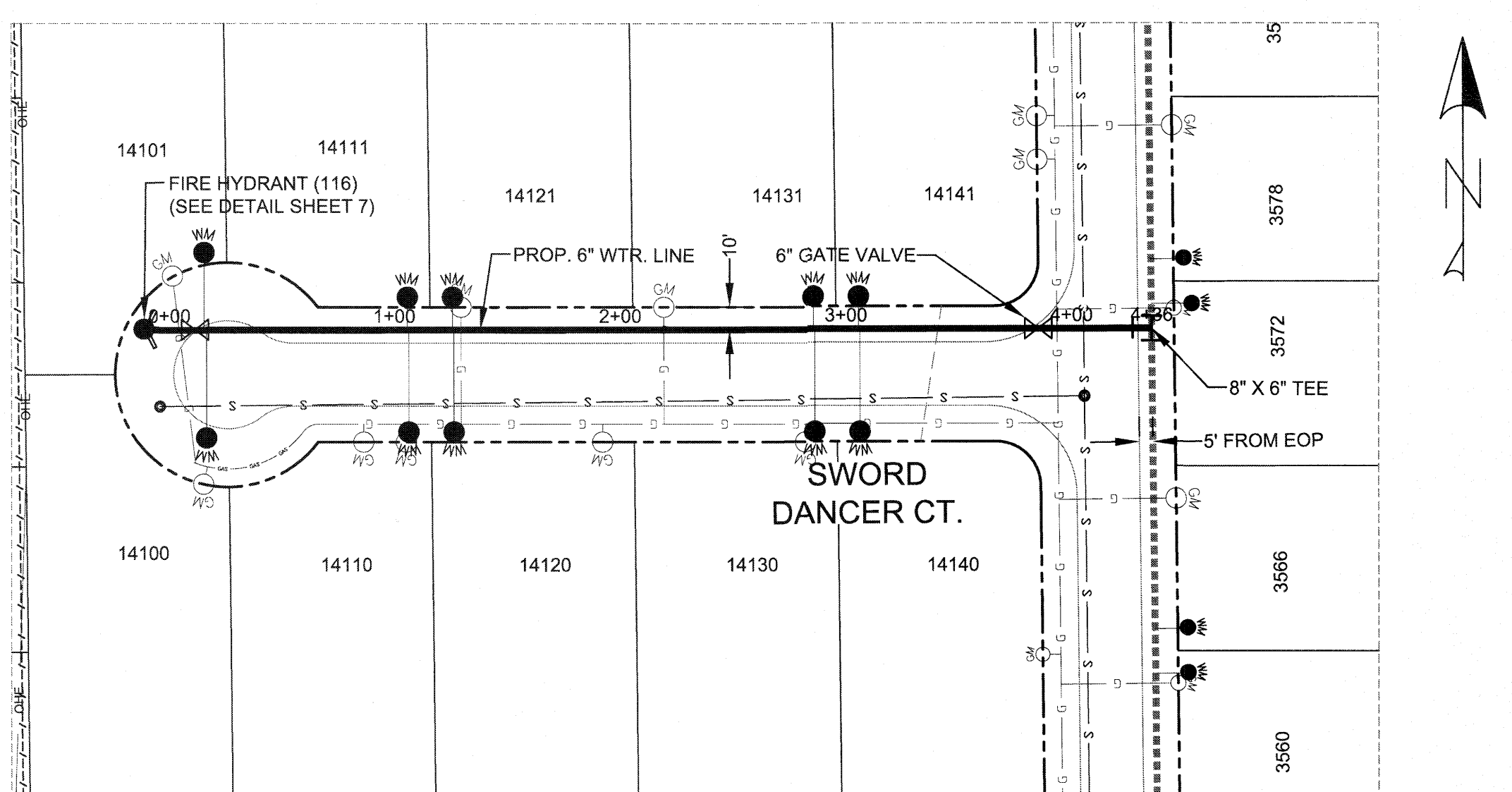
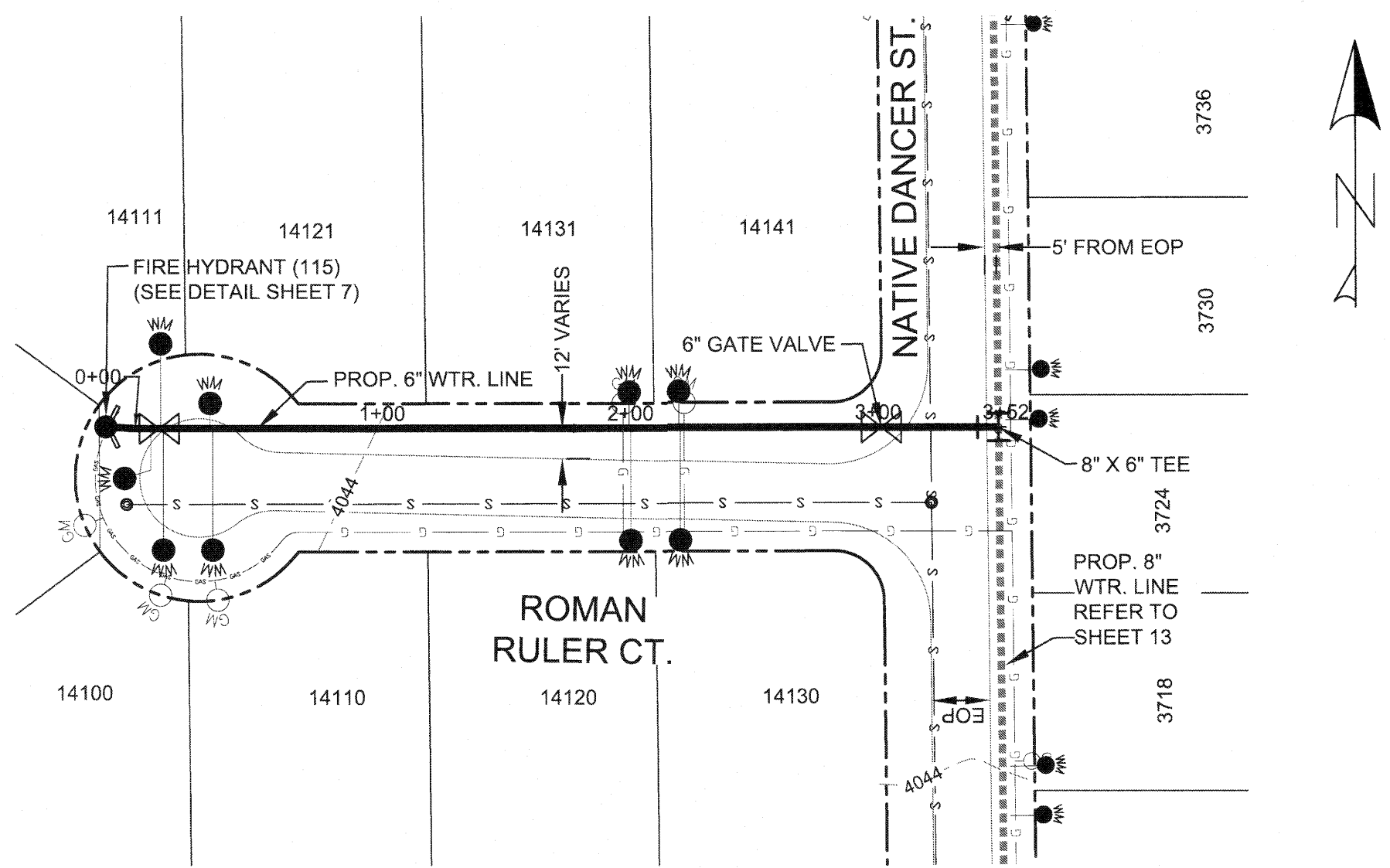
APPD. BY: F.H.

PROJECT NAME: VISTA DEL ESTE WATER DISTRIBUTION SYSTEM

COUNTY OF EL PASO PUBLIC WORKS DEPARTMENT

SHEET TITLE: 8" WATER LINE BIG JOHN DR. PLAN & PROFILE

SHEET 23 OF 31



WATER LINE "K"
 ROMAN RULER CT.
 HORIZONTAL SCALE: 1"=60'
 VERTICAL SCALE: 1"=10'

WATER LINE "O"
 SWORD DANCER CT.
 HORIZONTAL SCALE: 1"=60'
 VERTICAL SCALE: 1"=10'

VERTICAL SCALE: 1"=10'

- DIG TESS - 1-811
- EL PASO ELECTRIC CO. - 543-2047
- TEXAS GAS SERVICE - 544-6300
- AT&T - 1-800-289-8343
- TIME WARNER CABLE - 772-1123
- ONE CALL - 811 OR 1-800-344-8377
- E.P. COUNTY WATER - 855-1881
- E.P. NATURAL GAS - 471-9124
- SM & P - 1-866-861-7678
- AT&T FIBER OPTICS - 1-817-589-1056
- DELL TELEPHONE COOP INC. - 1-800-245-2991
- TXNW-ATT/D -
- ONEOK - 740-6512
- BUCKEYE GULF COAST PIPE LINES - 1-877-530-5685

BEFORE YOU DIG

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CONTRACTOR SHALL NOTIFY ENGINEER OF ANY POSSIBLE CONFLICT 2 WEEKS PRIOR TO TRENCHING IN THAT AREA.

LEGEND			
	EXISTING POWER POLE		STREET R.O.W. LINE
	EXISTING LIGHT POLE		EXISTING EDGE OF PAVEMENT
	EXISTING SIGN		EXISTING CABLE LINE
	EXISTING WATER VALVE		EXISTING WATER LINE
	EXISTING WATER METER		EXISTING GAS LINE
	EXISTING FIRE HYDRANT		EXISTING FENCE OR WALL
	EXISTING WASTE WATER MANHOLE		EXISTING OVERHEAD ELECTRIC
	EXISTING TELEPHONE PEDESTAL		EXISTING FIBER OPTIC CABLE
	EXISTING MAILBOX		PROPOSED WATER LINE
	EXISTING CONTROL POINTS		EXISTING LOT LINE
	XXXX STREET ADDRESS		PROPOSED CROSS
			PROPOSED TEE
			PROPOSED 90° BEND
			PROPOSED CAP
			PROPOSED VALVE
			PROPOSED FIRE HYDRANT
			EXISTING TREE
			EXISTING GAS METER

ENGINEER'S SEAL: [Seal of El Paso County, Texas, dated 10/25/27]

SCALE: [Blank]

DATE: 09/12/19
 DESIGN BY: [Blank]
 DRAWN BY: A.G.
 CHD. BY: [Blank]
 APPD. BY: [Blank]

PROJECT NAME: **VISTA DE ESTE WATER DISTRIBUTION SYSTEM**

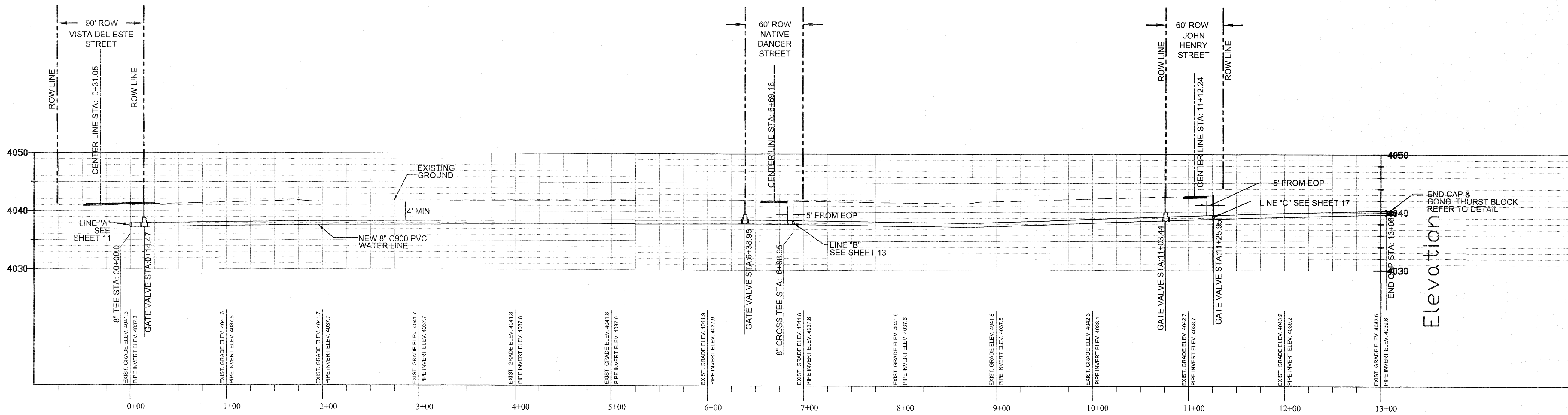
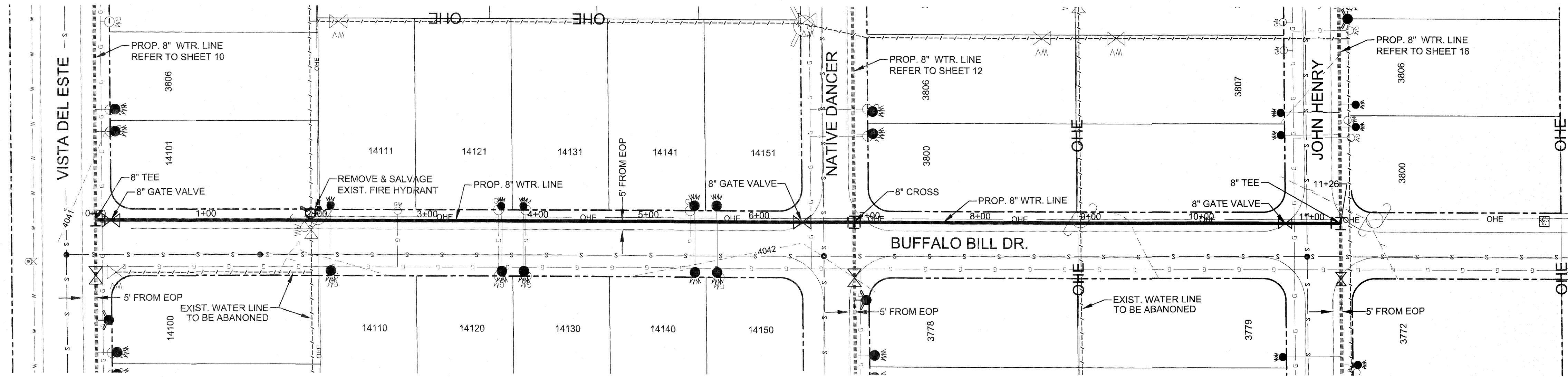
COUNTY OF EL PASO PUBLIC WORKS DEPARTMENT

SHEET TITLE: **6" WATER LINE ROMAN RULER CT. SWORD DANCER CT. PLAN & PROFILE**

SHEET: 24 OF 31

REFERENCES: --- BENCHMARKS

REVISIONS: [Table with columns for DATE, REVISIONS, BY]



- DIG TESS - 1-811
- EL PASO ELECTRIC CO. - 543-2047
- TEXAS GAS SERVICE - 544-6300
- AT&T - 1-800-286-8343
- TIME WARNER CABLE - 772-1123
- ONE CALL - 811 OR 1-800-344-8377
- E.P. COUNTY WATER - 855-1681
- E.P. NATURAL GAS - 471-0124
- SM & P - 1-866-861-7678
- AT&T FIBER OPTICS - 1-817-599-1056
- DELL TELEPHONE -
- COOP INC. - 1-800-245-2991
- TANW-ATT'D -
- ONEOK - 740-6512
- BUCKEYE GULF COAST PIPE LINES - 1-877-530-5685

BEFORE YOU DIG

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CONTRACTOR SHALL NOTIFY ENGINEER OF ANY POSSIBLE CONFLICT 2 WEEKS PRIOR TO TRENCHING IN THAT AREA.

WATER LINE "I"
 BUFFALO BILL FROM VISTA DEL ESTE TO JOHN HENRY STREET
 HORIZONTAL SCALE: 1"=60'
 VERTICAL SCALE: 1"=10'

LEGEND

	EXISTING POWER POLE		STREET R.O.W. LINE		PROPOSED CROSS
	EXISTING LIGHT POLE		EXISTING EDGE OF PAVEMENT		PROPOSED TEE
	EXISTING SIGN		EXISTING CABLE LINE		PROPOSED 90° BEND
	EXISTING WATER VALVE		EXISTING WATER LINE		PROPOSED CAP
	EXISTING WATER METER		EXISTING GAS LINE		PROPOSED VALVE
	EXISTING FIRE HYDRANT		EXISTING FENCE OR WALL		PROPOSED FIRE HYDRANT
	EXISTING WASTE WATER MANHOLE		EXISTING OVERHEAD ELECTRIC		PROPOSED WATER METER
	EXISTING TELEPHONE PEDESTAL		EXISTING FIBER OPTIC CABLE		EXISTING TREE
	EXISTING MAILBOX		PROPOSED WATER LINE		EXISTING GAS METER
	EXISTING CONTROL POINTS		EXISTING LOT LINE		
	XXXX STREET ADDRESS				

ENGINEER'S SEAL: [Professional Seal of Fernando Hernandez, License No. 102527, State of Texas]

PROJECT NAME: **VISTA DEL ESTE WATER DISTRIBUTION SYSTEM**

COUNTY OF EL PASO PUBLIC WORKS DEPARTMENT

SHEET TITLE: **8" WATER LINE BUFFALO BILL DR. PLAN & PROFILE**

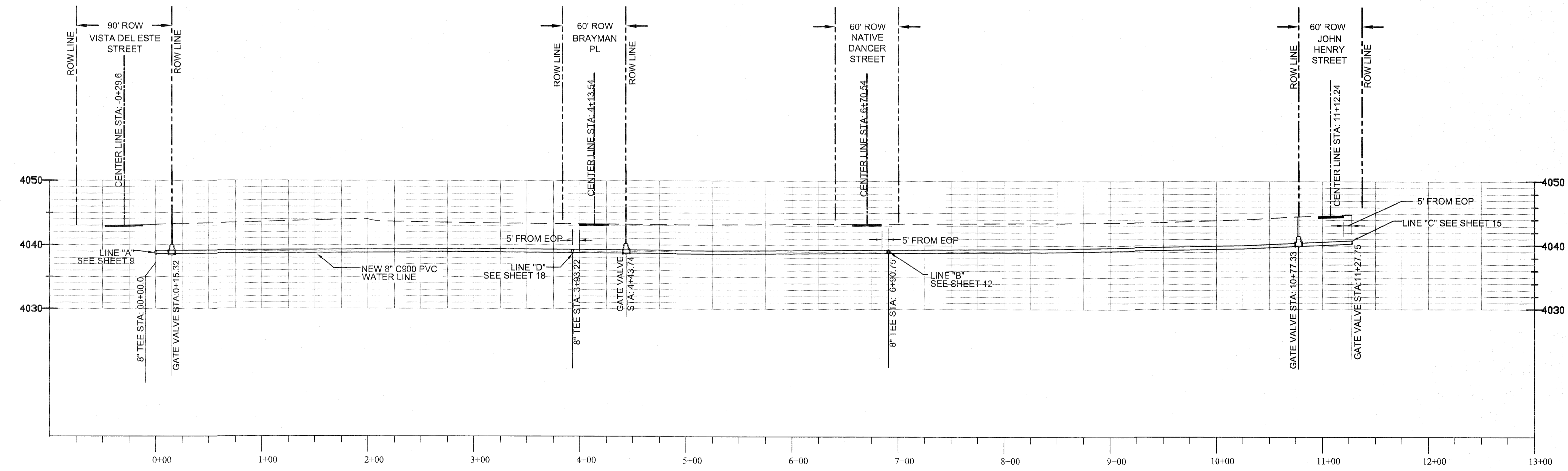
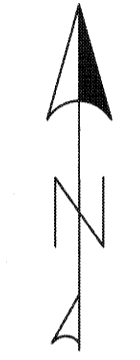
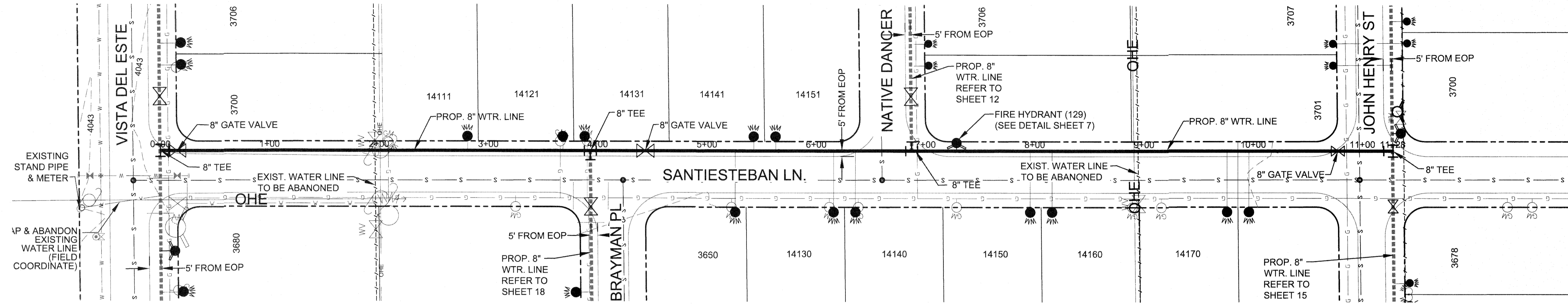
DATE: 09/12/18
 DESIGN BY: F.H.
 DRAWN BY: A.G.
 CHKD. BY: F.H.
 APPD. BY: F.H.

REFERENCES: --- BENCHMARKS

REVISIONS:

NO.	DATE	BY

SHEET 25 OF 31



- DIG TESS - 1-811
- EL PASO ELECTRIC CO. - 543-2047
- TEXAS GAS SERVICE - 544-6300
- AT&T - 1-800-286-8343
- TIME WARNER CABLE - 772-1123
- ONE CALL - 811 OR 1-800-344-8377
- E.P. COUNTY WATER - 855-1881
- E.P. NATURAL GAS - 471-0124
- SM & P - 1-866-861-7678
- AT&T FIBER OPTICS - 1-817-599-1056
- DELL TELEPHONE COOP INC. - 1-800-245-2991
- TXNVA-ATT/D - 740-6512
- ONEOK - 1-877-530-5685
- BUGKEYE GULF COAST PIPE LINES - 1-877-530-5685

BEFORE YOU DIG

CONTRACTOR SHALL COORDINATE AND FIELD LOCATE ALL EXISTING UNDERGROUND UTILITIES IN THE PROJECT AREA.

CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD LOCATING, POT HOLING AND/OR EXPOSING LINES TO VERIFY POSSIBLE CONFLICTS PRIOR TO ANY EXCAVATING ACTIVITY.

CONTRACTOR SHALL NOTIFY ENGINEER OF ANY POSSIBLE CONFLICT 2 WEEKS PRIOR TO TRENCHING IN THAT AREA.

WATER LINE "I"
 SANTIESTEBAN LANE FROM VISTA DEL ESTE TO JOHN HENRY STREET
 HORIZONTAL SCALE: 1"=60'
 VERTICAL SCALE: 1"=10'

LEGEND	
	EXISTING POWER POLE
	EXISTING LIGHT POLE
	EXISTING SIGN
	EXISTING WATER VALVE
	EXISTING WATER METER
	EXISTING FIRE HYDRANT
	EXISTING WASTE WATER MANHOLE
	EXISTING TELEPHONE PEDESTAL
	EXISTING MAILBOX
	EXISTING CONTROL POINTS
	XXXX STREET ADDRESS
	STREET R.O.W. LINE
	EXISTING EDGE OF PAVEMENT
	EXISTING CABLE LINE
	EXISTING WATER LINE
	EXISTING GAS LINE
	EXISTING FENCE OR WALL
	EXISTING OVERHEAD ELECTRIC
	EXISTING FIBER OPTIC CABLE
	PROPOSED WATER LINE
	EXISTING LOT LINE
	PROPOSED CROSS
	PROPOSED TEE
	PROPOSED 90° BEND
	PROPOSED CAP
	PROPOSED VALVE
	PROPOSED FIRE HYDRANT
	PROPOSED WATER METER
	EXISTING TREE
	EXISTING GAS METER

ENGINEER'S SEAL: FERNANDO HERNANDEZ, P.E., LICENSE NO. 102537, PROFESSIONAL

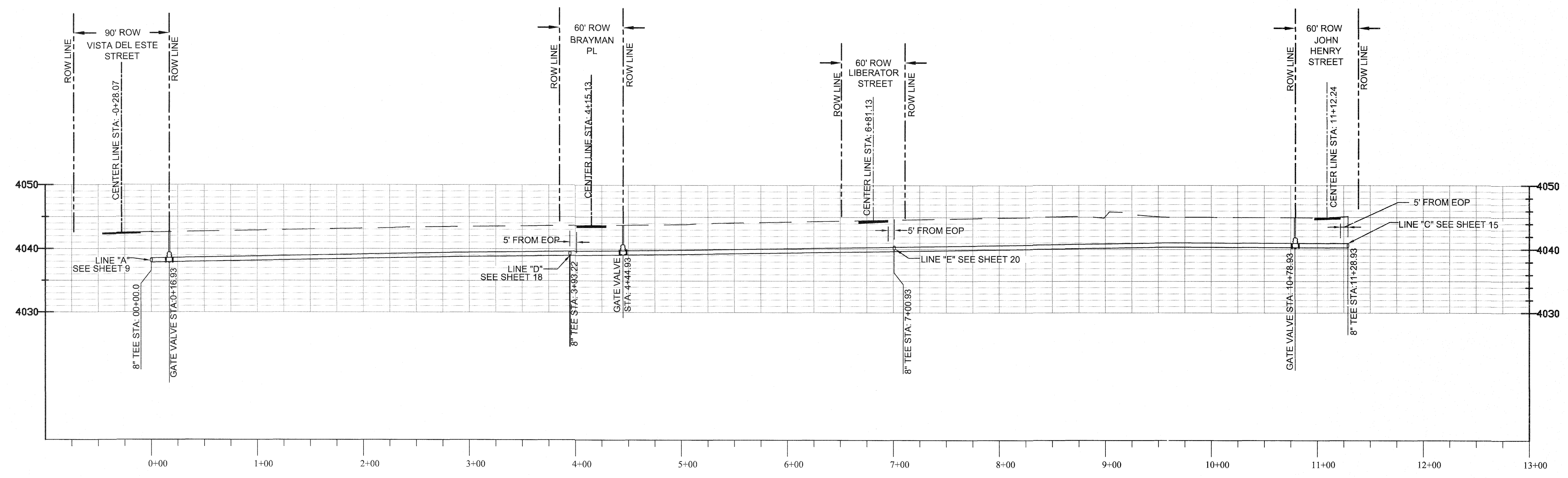
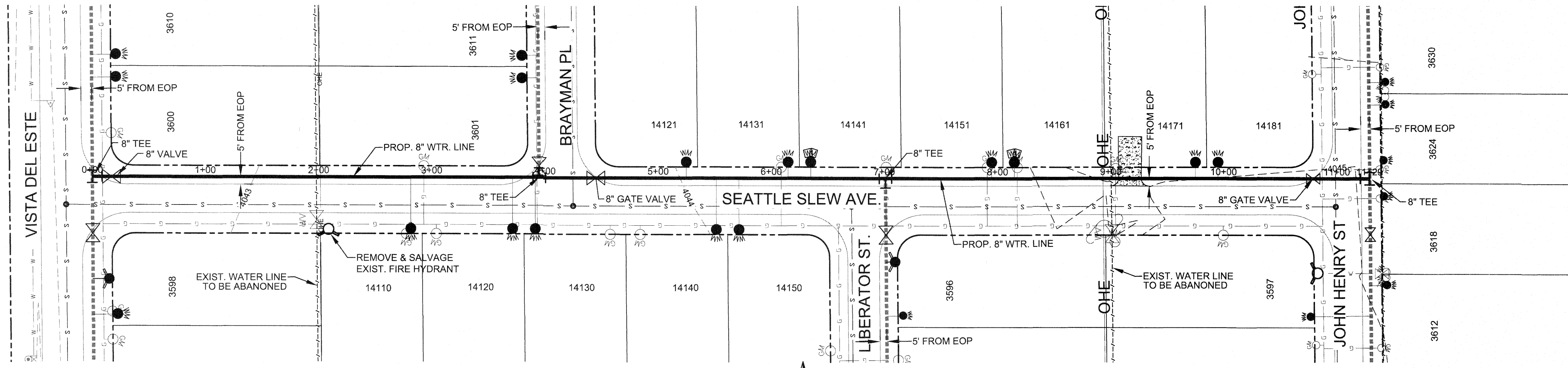
DATE: 09/12/18
 DESIGN BY: F.H.
 DRAWN BY: A.G.
 CHKD. BY: F.H.
 APPD. BY: F.H.

PROJECT NAME: VISTA DEL ESTE WATER DISTRIBUTION SYSTEM

COUNTY OF EL PASO PUBLIC WORKS DEPARTMENT

SHEET TITLE: 8" WATER LINE SANTIESTEBAN LANE PLAN & PROFILE

SHEET 26 OF 31



- DIG TESS - 1-811
- EL PASO ELECTRIC CO. - 543-2047
- TEXAS GAS SERVICE - 544-4300
- AT&T - 1-800-296-8343
- TIME WARNER CABLE - 772-1123
- ONE CALL - 811 OR 1-800-344-8377
- E.P. COUNTY WATER - 855-1681
- E.P. NATURAL GAS - 471-0124
- SM & P - 1-866-861-7678
- AT&T FIBER OPTICS - 1-817-589-1056
- DELL TELEPHONE COOP INC. - 1-800-245-2991
- ONEOK - 740-6512
- BUCKEYE GULF COAST PIPE LINES - 1-877-530-5685

BEFORE YOU DIG

CONTRACTOR SHALL COORDINATE AND FIELD LOCATE ALL EXISTING UNDERGROUND UTILITIES IN THE PROJECT AREA.

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WATER LINE "N"
 SEATTLE SLEW AVE. FROM VISTA DEL ESTE TO JOHN HENRY STREET
 HORIZONTAL SCALE: 1"=60'
 VERTICAL SCALE: 1"=10'

LEGEND					
	EXISTING POWER POLE		STREET R.O.W. LINE		PROPOSED CROSS
	EXISTING LIGHT POLE		EXISTING EDGE OF PAVEMENT		PROPOSED TEE
	EXISTING SIGN		EXISTING CABLE LINE		PROPOSED 90° BEND
	EXISTING WATER VALVE		EXISTING WATER LINE		PROPOSED CAP
	EXISTING WATER METER		EXISTING GAS LINE		PROPOSED VALVE
	EXISTING FIRE HYDRANT		EXISTING FENCE OR WALL		PROPOSED FIRE HYDRANT
	EXISTING WASTE WATER MANHOLE		EXISTING OVERHEAD ELECTRIC		PROPOSED WATER METER
	EXISTING TELEPHONE PEDESTAL		EXISTING FIBER OPTIC CABLE		EXISTING TREE
	EXISTING MAILBOX		PROPOSED WATER LINE		EXISTING GAS METER
	EXISTING CONTROL POINTS		EXISTING LOT LINE		
	XXXX STREET ADDRESS				

PROJECT NAME
VISTA DEL ESTE WATER DISTRIBUTION SYSTEM

COUNTY OF EL PASO
PUBLIC WORKS DEPARTMENT

SHEET TITLE
8" WATER LINE SEATTLE SLEW PLAN & PROFILE

SHEET
27 of 31

ENGINEER'S SEAL: [Professional Engineer Seal for Fernando Hernandez, No. 102527, State of Texas]

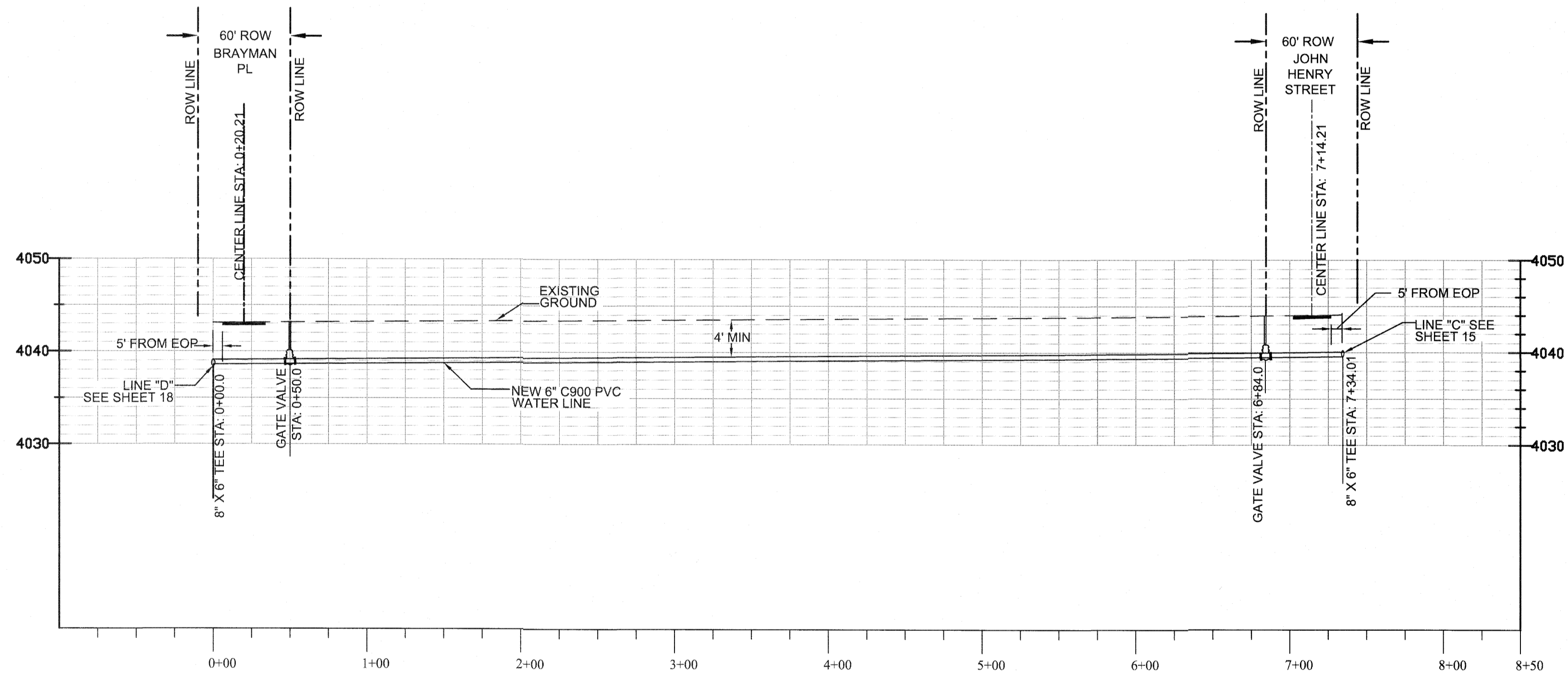
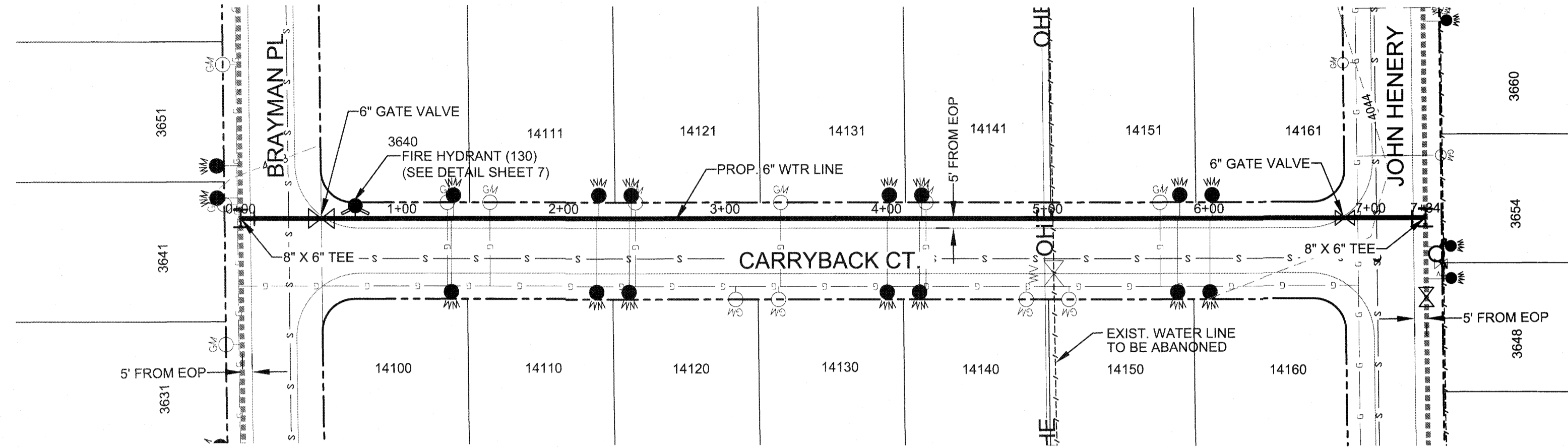
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DATE: 09/12/16
 DESIGNED BY: [Blank]
 DRAWN BY: [Blank]
 CHECKED BY: [Blank]
 APPR. BY: [Blank]

REFERENCES: [Blank]

BENCHMARKS: [Blank]

REVISIONS: [Blank]



- DIG TESS - 1-811
- EL PASO ELECTRIC CO. - 543-2047
- TEXAS GAS SERVICE - 544-6300
- AT&T - 1-800-286-8343
- TIME WARNER CABLE - 772-1123
- ONE CALL - 811 OR 1-800-344-8377
- E.P. COUNTY WATER - 855-1881
- E.P. NATURAL GAS - 471-0124
- SM & P - 1-866-861-7678
- AT&T FIBER OPTICS - 1-817-589-1056
- DELL TELEPHONE COOP INC. - 1-800-245-2991
- TXNW-ATT/D - 740-6512
- ONEOK - 1-877-530-5685
- BUGKEYE GULF COAST PIPE LINES - 1-877-530-5685

BEFORE YOU DIG

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WATER LINE "M"
 CARRYBACK COURT FROM BRAYMAN TO JOHN HENRY STREET
 HORIZONTAL SCALE: 1"=60'
 VERTICAL SCALE: 1"=10'

LEGEND

	EXISTING POWER POLE		STREET R.O.W. LINE		PROPOSED CROSS
	EXISTING LIGHT POLE		EXISTING EDGE OF PAVEMENT		PROPOSED TEE
	EXISTING SIGN		EXISTING CABLE LINE		PROPOSED 90° BEND
	EXISTING WATER VALVE		EXISTING WATER LINE		PROPOSED CAP
	EXISTING WATER METER		EXISTING GAS LINE		PROPOSED VALVE
	EXISTING FIRE HYDRANT		EXISTING FENCE OR WALL		PROPOSED FIRE HYDRANT
	EXISTING WASTE WATER MANHOLE		EXISTING OVERHEAD ELECTRIC		PROPOSED WATER METER
	EXISTING TELEPHONE PEDESTAL		EXISTING FIBER OPTIC CABLE		EXISTING TREE
	EXISTING MAILBOX		PROPOSED WATER LINE		EXISTING GAS METER
	EXISTING CONTROL POINTS		EXISTING LOT LINE		
	XXXX STREET ADDRESS				

ENGINEER'S SEAL: [Seal of the State of Texas, Professional Engineer, No. 102527, Date 10/25/27]

SCALE: [Blank]

DATE: 09/22/18
 DESIGN BY: [Blank]
 DRAWN BY: A.G.
 CHD. BY: F.H.
 APPD. BY: [Blank]

PROJECT NAME: **VISTA DEL ESTE WATER DISTRIBUTION SYSTEM**

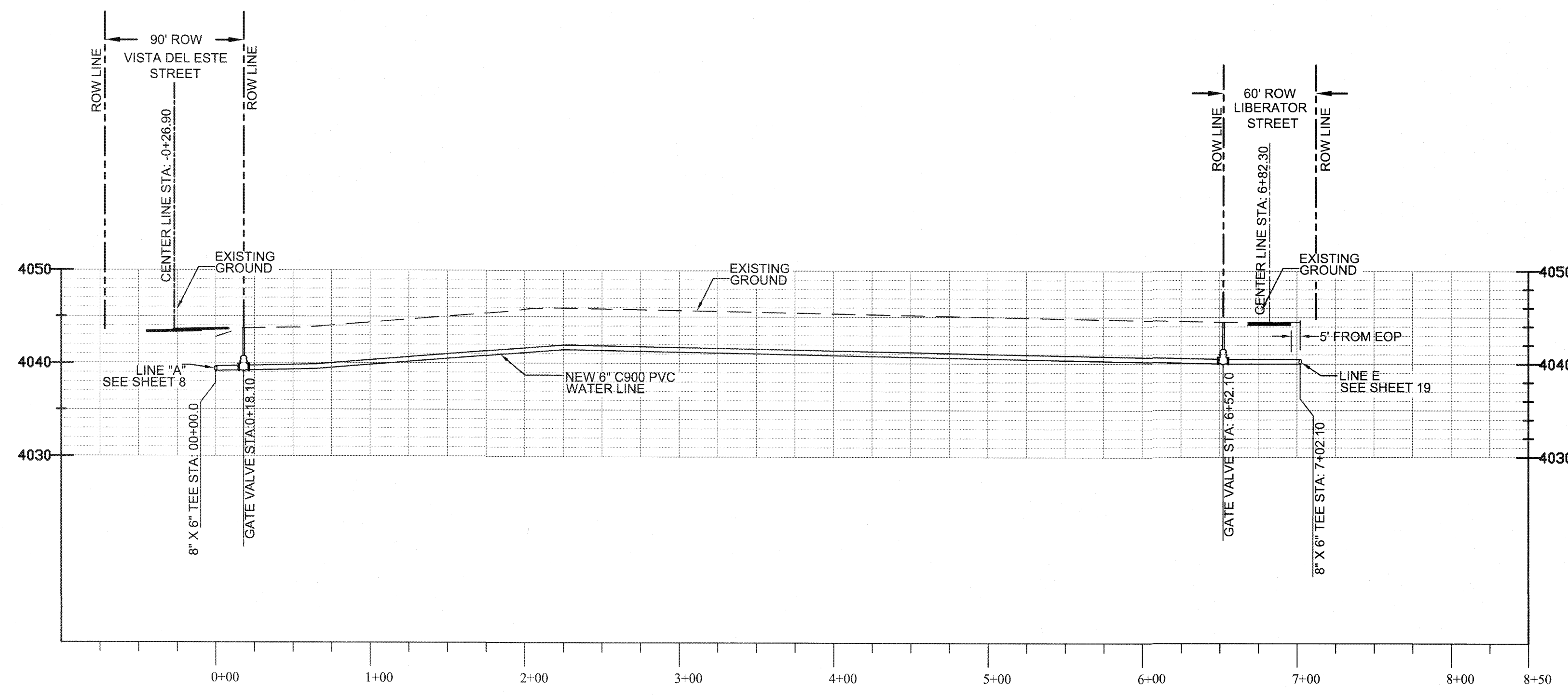
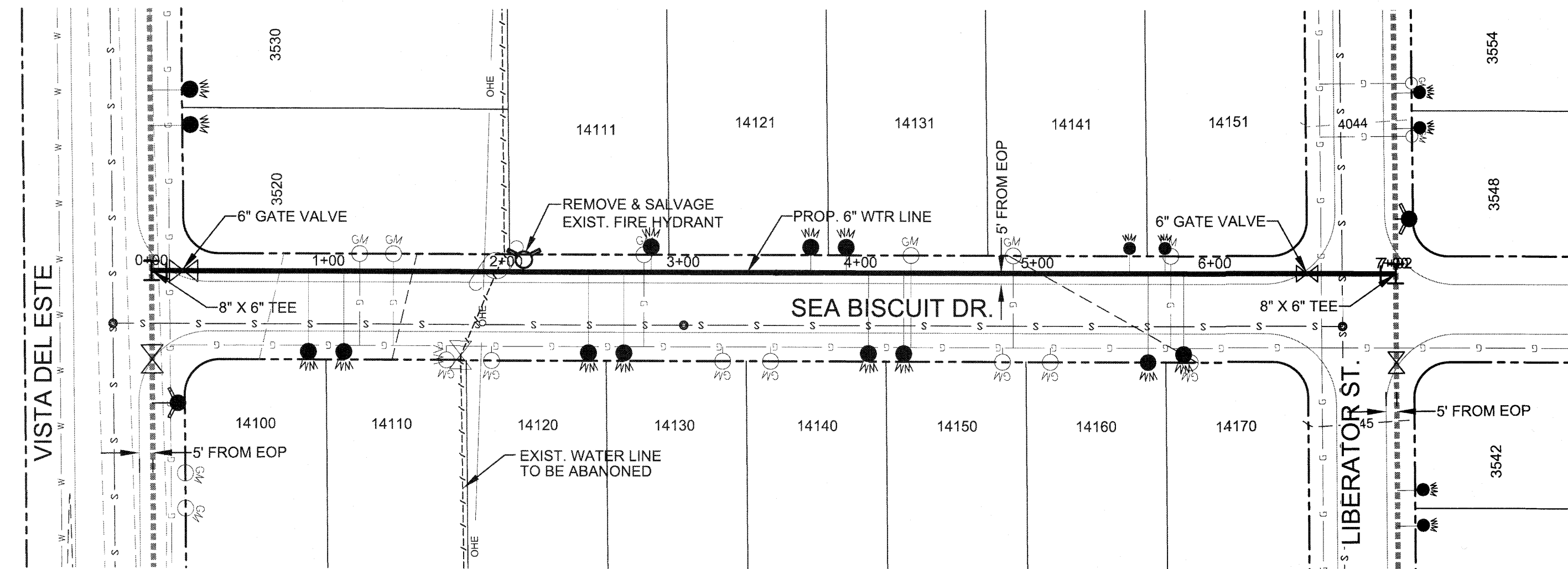
COUNTY OF EL PASO PUBLIC WORKS DEPARTMENT

SHEET TITLE: **6" WATER LINE CARRYBACK CT. PLAN & PROFILE**

SHEET: **28 OF 31**

REFERENCES: --- BENCHMARKS

REVISIONS: [Table with columns for DATE, REVISIONS, BY]



- BEFORE YOU DIG**
- DIG TESS - 1-811
 - EL PASO ELECTRIC CO. - 543-2047
 - TEXAS GAS SERVICE - 544-8300
 - AT&T - 1-800-286-8343
 - TIME WARNER CABLE - 772-1123
 - ONE CALL - 811 OR 1-800-344-8377
 - E.P. COUNTY WATER - 855-1681
 - E.P. NATURAL GAS - 471-0124
 - SM & P - 1-866-861-7678
 - AT&T FIBER OPTICS - 1-817-589-1056
 - DELL TELEPHONE COOP INC. - 1-800-245-2991
 - TXNW-ATT/D - 740-6512
 - ONEOK - 1-877-530-5685
 - BUCKEYE GULF COAST PIPE LINES - 1-877-530-5685

BEFORE YOU DIG

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WATER LINE "P"
 SEA BISCUIT DRIVE
 HORIZONTAL SCALE: 1"=60'
 VERTICAL SCALE: 1"=10'

LEGEND

	EXISTING POWER POLE		STREET R.O.W. LINE		PROPOSED CROSS
	EXISTING LIGHT POLE		EXISTING EDGE OF PAVEMENT		PROPOSED TEE
	EXISTING SIGN		EXISTING CABLE LINE		PROPOSED 90° BEND
	EXISTING WATER VALVE		EXISTING WATER LINE		PROPOSED CAP
	EXISTING WATER METER		EXISTING GAS LINE		PROPOSED VALVE
	EXISTING FIRE HYDRANT		EXISTING FENCE OR WALL		PROPOSED FIRE HYDRANT
	EXISTING WASTE WATER MANHOLE		EXISTING OVERHEAD ELECTRIC		PROPOSED WATER METER
	EXISTING TELEPHONE PEDESTAL		EXISTING FIBER OPTIC CABLE		EXISTING TREE
	EXISTING MAILBOX		PROPOSED WATER LINE		EXISTING GAS METER
	EXISTING CONTROL POINTS		EXISTING LOT LINE		
	XXXX STREET ADDRESS				

PROJECT NAME
**VISTA DEL ESTE
 WATER DISTRIBUTION SYSTEM**

COUNTY OF EL PASO
 PUBLIC WORKS DEPARTMENT

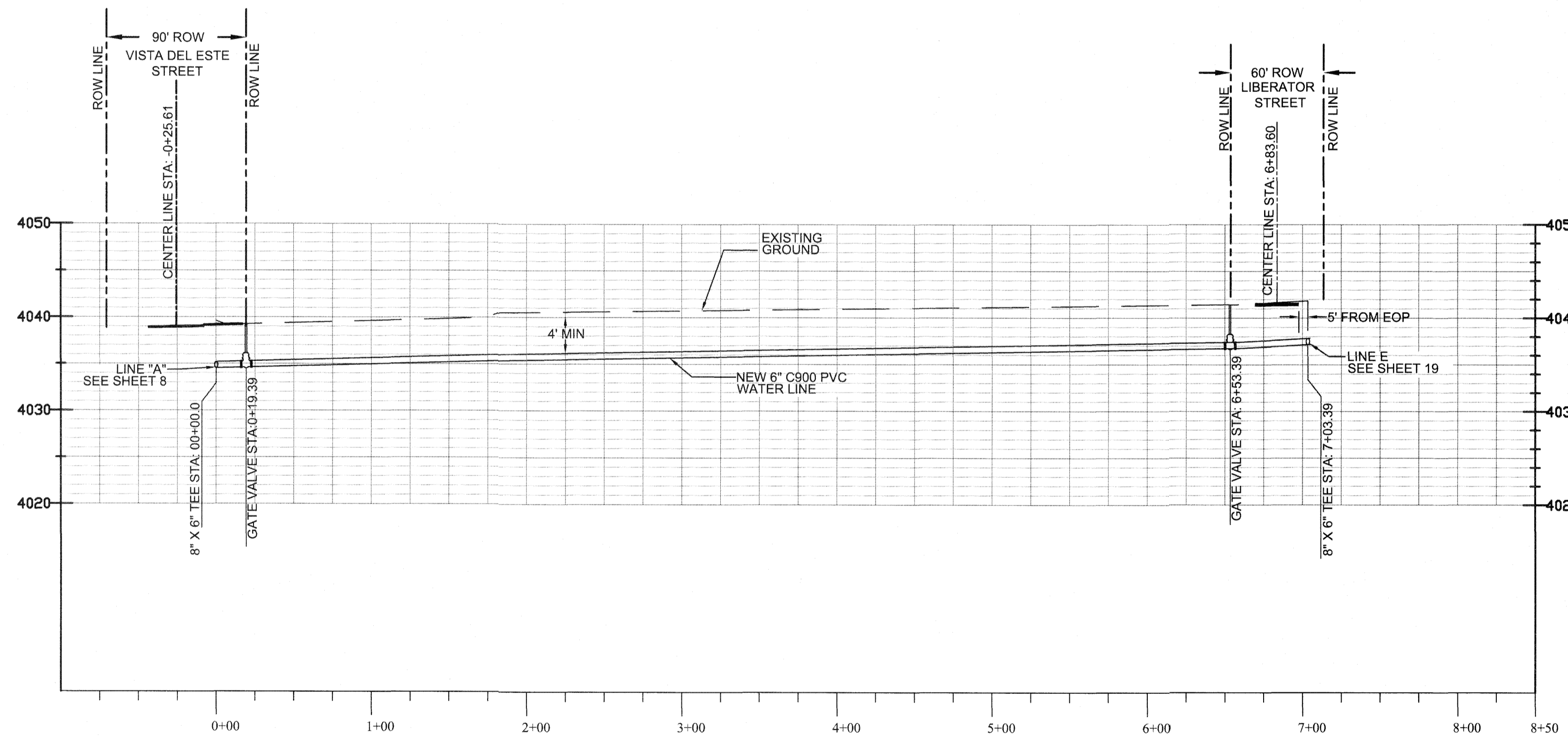
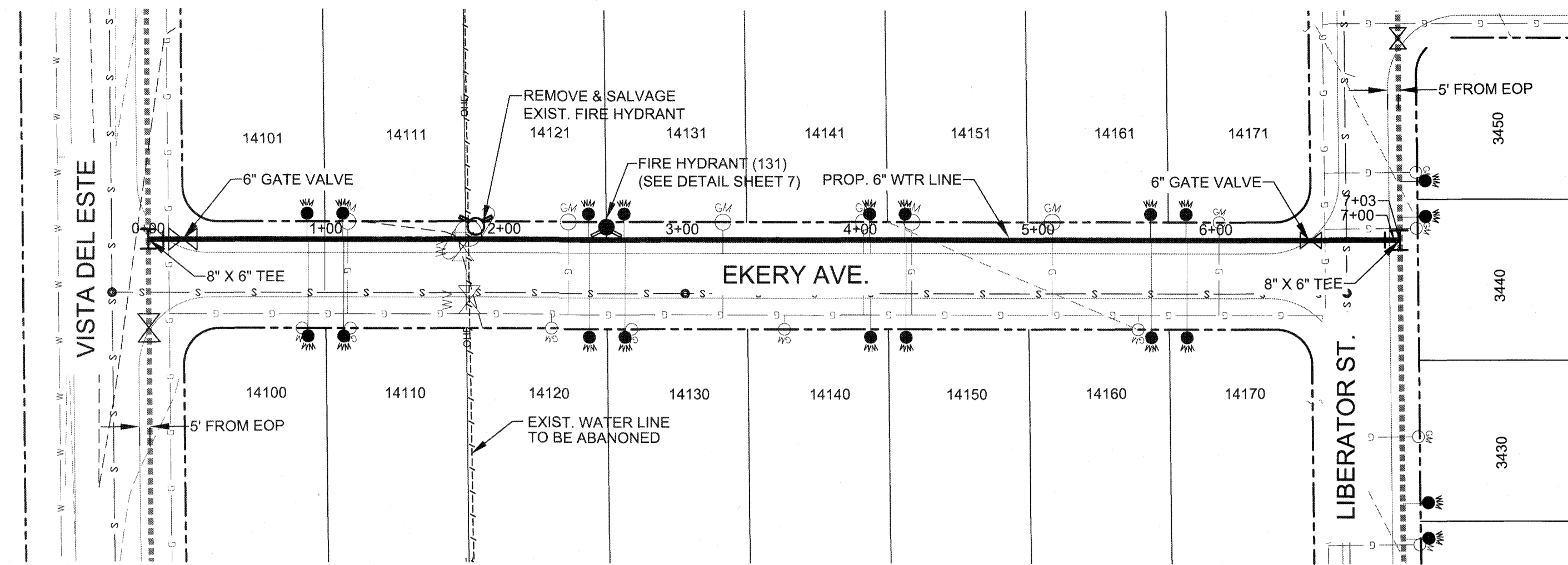
ENGINEER'S SEAL

REFERENCES --- BENCHMARKS

SCALE:
 HOR: VER:
 DATE: 09/12/18
 DESIGN BY: F.H.
 DRAWN BY: A.G.
 CHKD. BY: F.H.
 APPD. BY: F.H.

SHEET TITLE
**6" WATER LINE
 SEA BISCUIT DRIVE
 PLAN & PROFILE**

SHEET
 29 OF 31



WATER LINE "S"
 EKERY AVENUE
 HORIZONTAL SCALE: 1"=60'
 VERTICAL SCALE: 1"=10'

VERTICAL SCALE: 1"=10'

LEGEND

⊙	EXISTING POWER POLE	---	STREET R.O.W. LINE	⊠	PROPOSED CROSS
☆	EXISTING LIGHT POLE	---	EXISTING EDGE OF PAVEMENT	⊢	PROPOSED TEE
+	EXISTING SIGN	---	CATV	⊣	PROPOSED 60° BEND
⊕	EXISTING WATER VALVE	---	W	⊡	PROPOSED CAP
⊗	EXISTING WATER METER	---	GAS	⊕	PROPOSED VALVE
⊙	EXISTING FIRE HYDRANT	---	O	⊕	PROPOSED FIRE HYDRANT
⊙	EXISTING WASTE WATER MANHOLE	---	OHE	⊕	PROPOSED WATER METER
⊡	EXISTING TELEPHONE PEDESTAL	---	FO	⊕	EXISTING TREE
⊡	EXISTING MAILBOX	---	PROPOSED WATER LINE	⊕	EXISTING GAS METER
◆	EXISTING CONTROL POINTS	---	EXISTING LOT LINE		
XXXX	STREET ADDRESS				

- DIG TESS - 1-811
- EL PASO ELECTRIC CO. - 543-2047
- TEXAS GAS SERVICE - 544-6300
- AT&T - 1-800-298-8343
- TIME WARNER CABLE - 772-1123
- ONE CALL - 811 OR 1-800-344-8377
- E.P. COUNTY WATER - 855-1881
- E.P. NATURAL GAS - 471-0124
- SM & P - 1-866-861-7678
- AT&T FIBER OPTICS - 1-817-589-1056
- DELL TELEPHONE COOP. INC. - 1-800-245-2991
- TXNW-ATT'D - 740-6512
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BEFORE YOU DIG

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ENGINEER'S SEAL: FERNANDO HERNANDEZ, P.E. 10/25/27

SCALE: DATE: 09/12/18

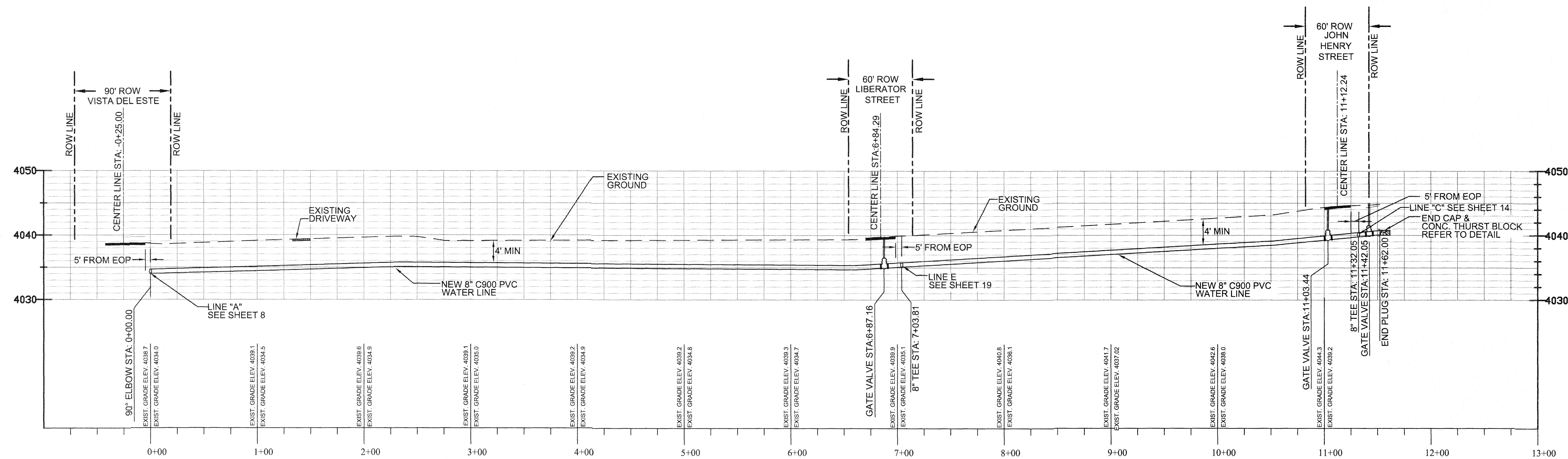
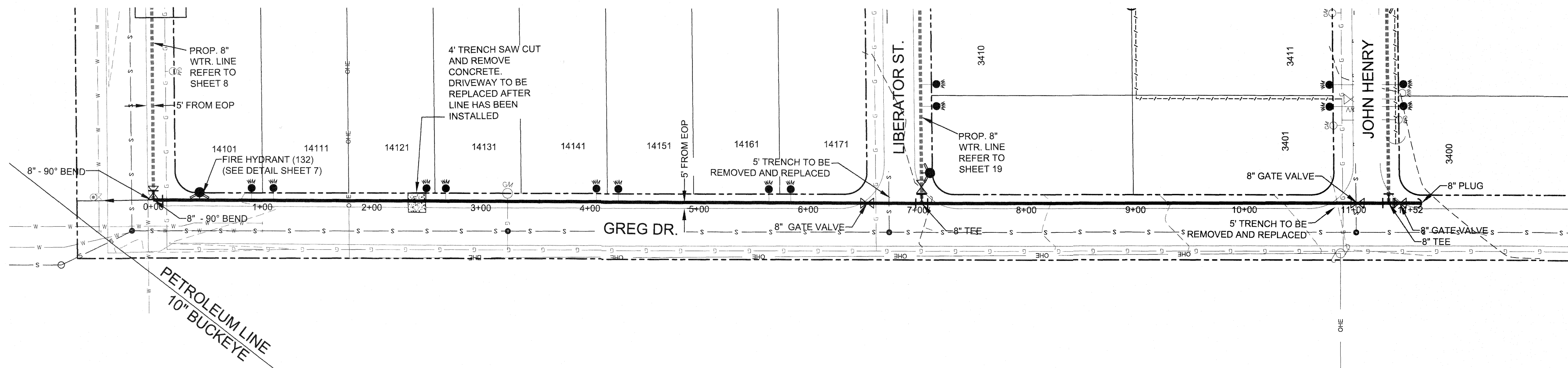
DESIGN BY: F.H. DRAWN BY: A.G. CHKD. BY: F.H. APPD. BY: F.H.

PROJECT NAME: VISTA DEL ESTE WATER DISTRIBUTION SYSTEM

COUNTY OF EL PASO PUBLIC WORKS DEPARTMENT

SHEET TITLE: 6" WATER LINE EKERY AVENUE PLAN & PROFILE

SHEET: 30 OF 31



- DIG TESS - 1-811
- EL PASO ELECTRIC CO. - 543-2047
- TEXAS GAS SERVICE - 544-6300
- AT&T - 1-800-288-8343
- TIME WARNER CABLE - 772-1123
- ONE CALL - 811 OR 1-800-344-8377
- E.P. COUNTY WATER - 855-1681
- E.P. NATURAL GAS - 471-0124
- SM & P - 1-866-461-7678
- AT&T FIBER OPTICS - 1-817-589-1056
- DELL TELEPHONE COOP INC. - 1-800-245-2991
- TXNII-ATT/D - 740-6512
- ONEOK - 740-6512
- BUCKEYE GULF COAST PIPE LINES - 1-877-530-5685

BEFORE YOU DIG

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WATER LINE "T"
 GREG STREET FROM VISTA DEL ESTE TO JOHN HENRY STREET
 HORIZONTAL SCALE: 1"=60'
 VERTICAL SCALE: 1"=10'

LEGEND

⊕	EXISTING POWER POLE	---	STREET R.O.W. LINE	⊕	PROPOSED CROSS
⊕	EXISTING LIGHT POLE	---	EXISTING EDGE OF PAVEMENT	⊕	PROPOSED TEE
+	EXISTING SIGN	---	CATV	⊕	PROPOSED 90° BEND
+	EXISTING WATER VALVE	---	W	⊕	PROPOSED CAP
+	EXISTING WATER METER	---	GAS	⊕	PROPOSED VALVE
+	EXISTING FIRE HYDRANT	---	---	⊕	PROPOSED FIRE HYDRANT
+	EXISTING WASTE WATER MANHOLE	---	OHE	⊕	PROPOSED WATER METER
+	EXISTING TELEPHONE PEDESTAL	---	FO	⊕	EXISTING TREE
+	EXISTING MAILBOX	---	---	⊕	EXISTING GAS METER
+	EXISTING CONTROL POINTS	---	---		
XXXX	STREET ADDRESS	---	PROPOSED WATER LINE		
		---	EXISTING LOT LINE		

COUNTY OF EL PASO
 PUBLIC WORKS DEPARTMENT

VISTA DEL ESTE
 WATER DISTRIBUTION SYSTEM

8" WATER LINE
 GREG DRIVE
 PLAN & PROFILE

SHEET
31 OF 31

ENGINEER'S SEAL: FERNANDO HERNANDEZ, JR., LICENSE NO. 102527, PROFESSIONAL ENGINEER, STATE OF TEXAS

SCALE: HOR: VER: DATE: 08/12/18
 DESIGN BY: F.H.
 DRAWN BY: A.G.
 CHKD. BY: F.H.
 APPD. BY: F.H.

PROJECT NAME: VISTA DEL ESTE WATER DISTRIBUTION SYSTEM

REFERENCES: BENCHMARKS

REVISIONS: BY: DATE