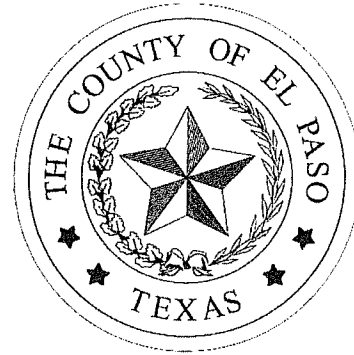


# VISTA DEL ESTE WATER DISTRIBUTION SYSTEM



## EL PASO COUNTY COMMISSIONERS COURT

RICARDO A. SAMANIEGO  
COUNTY JUDGE

CARLOS LEON  
COMMISSIONER PCT. 1

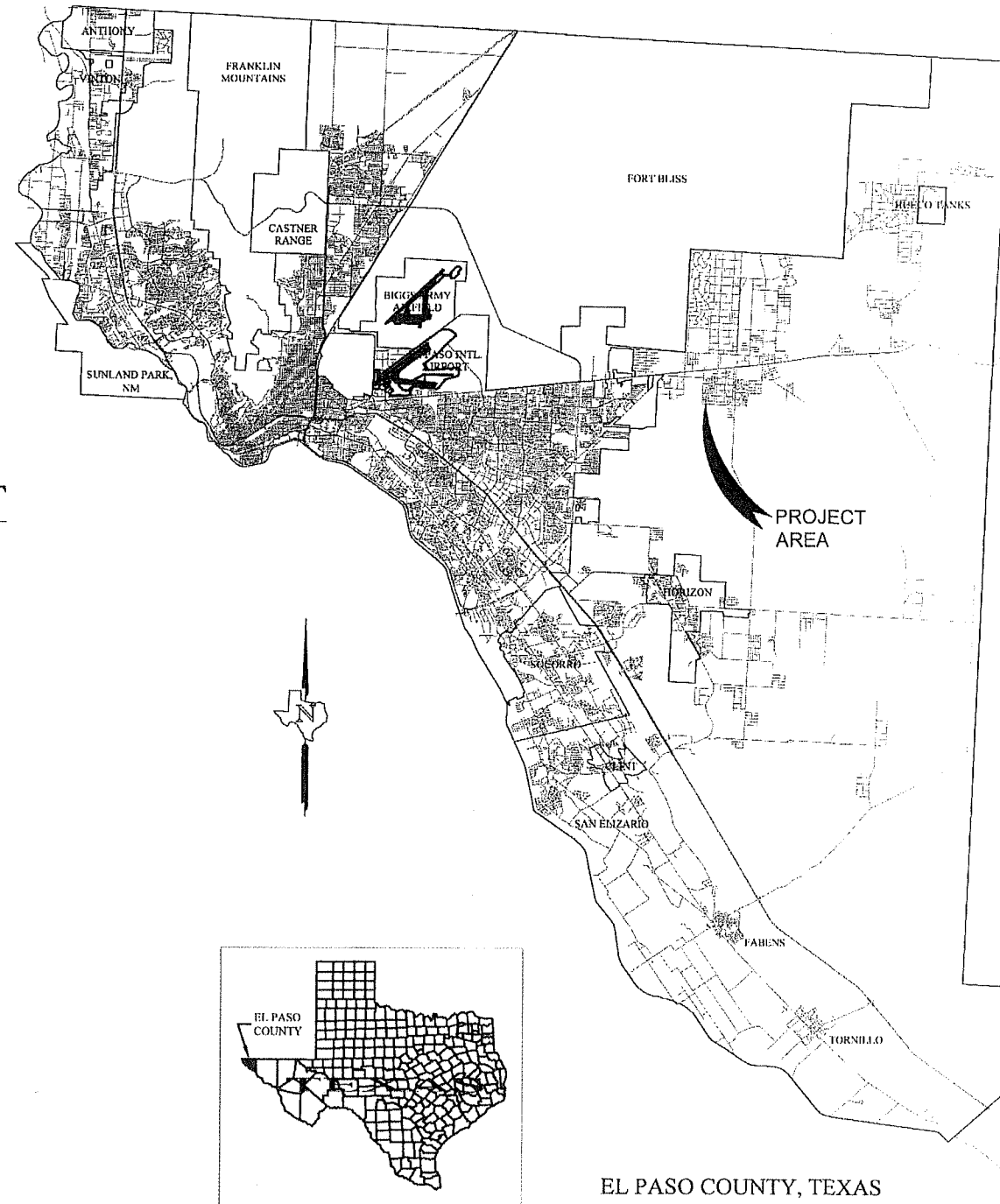
DAVID STOUT  
COMMISSIONER PCT. 2

VINCENT PEREZ  
COMMISSIONER PCT. 3

CARL L. ROBINSON  
COMMISSIONER PCT. 4



*Fernando Hernandez, Jr.*  
The County of El Paso  
6-24-18  
**FERNANDO HERNANDEZ, P.E.**  
COUNTY ENGINEER



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**GENERAL NOTES**

- 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.
- 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.
- 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.
- 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 HOURS)
- ALL GAS UTILITIES, BUT NOT LIMITED TO INCLUDING EL PASO NATURAL GAS CO., SOUTHERN UNION GAS CO., NAWAJO REFINING CO., AND DIAMOND SHAWROCK PIPELINE CO. MUST BE NOTIFIED 48 HOURS IN ADVANCE OF ANY CONSTRUCTION ACTIVITIES WITHIN THEIR FLOW. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION AND SHALL FOLLOW UTILITY GUIDE LINES IN ACCORDANCE TO STATE AND / OR LOCAL STANDARDS.
- THE CONTRACTOR SHALL NOTIFY THE CITY OF EL PASO ENGINEERING DEPARTMENT, IN WRITING, OF ANY PROPOSED CURB SITES FOR OVERBURDEN AND ANY CONSTRUCTION DEBRIS AND OBTAIN APPROVAL BEFORE REMOVAL FROM THE PROJECT SITE.
- VERTICAL CONTROL: ALL ELEVATIONS ARE BASED UPON CITY OF EL PASO DATUM N:1069596.409 E: 419712.319 ELEV: 3976.765 WGS84
- CONTRACTOR SHALL VERIFY LOCATION, SIZE, AND MATERIAL OF ALL EXISTING WATER LINES TO BE TIED IN PRIOR TO BEGINNING THE IN CONSTRUCTION.
- 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
- THE CONTRACTOR SHALL VISIT AND FAMILIARIZE HIMSELF WITH THE PROJECT SITE PRIOR TO SUBMITTING THEIR BID.
- IT WILL BE THE CONTRACTOR'S 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.
- ALL CONCRETE SHALL BE 3000 PSI AT 28 DAYS UNLESS OTHERWISE SPECIFIED ON PLANS
- VIBRATORY ROLLERS SHALL NOT BE PERMITTED ON ANY PHASE OF THIS PROJECT UNLESS APPROVED BY OWNER
- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN A TRAFFIC CONTROL PLAN PERMIT FROM THE COUNTY OF EL PASO AT LEAST 2 WEEKS PRIOR TO CONSTRUCTION.
- CONTRACTOR SHALL NOTIFY THE COUNTY OF EL PASO, EMERGENCY RESPONDERS, LOCAL SCHOOL DISTRICTS AND RESIDENT 48 HOURS PRIOR TO ANY STREET CLOSURES.
- CONTRACTOR SHALL COORDINATE WITH HOME OWNER FOR LOCATION OF SERVICES. CONTRACTOR SHALL PRESENT HOME OWNER WITH A PLAN FOR OWNER'S SIGNATURE OF APPROVAL PRIOR TO COMMENCING SERVICE TRANSFER.
- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH TCEQ AND EP WATER STANDARDS
- ANY ALIGNMENT DEVIATIONS SHALL COMPLY WITH MANUFACTURER'S RECOMMENDATIONS.
- CONTRACTOR SHALL DISPOSE OF ALL SPOILS OFFSITE AND SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
- 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.
- PIPE FITTING AND JOINTS, C-909, C-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).
- 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 292.44(F)(3).
- ALL NEWLY INSTALLED PIPE AND FITTING MUST CONFORM TO ANSI / NSF STANDARD 61 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 292.44(A)(1) AND (2).
- 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 CLOSED AND NOZZLE CAPS OPEN, SHALL BE INCLUDED IN TEST. THE ENTIRE REJECT SHALL BE TESTED AT A PRESSURE OF 150 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.
- CONTRACTOR SHALL HAND DIG AND EXPOSE AROUND EXISTING UTILITIES WHEN LINES ARE PRESENT IN PATH OF TRENCHING FOR NEW INSTALLATION
- 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
- CONTRACTOR SHALL FIELD ADJUST WATERLINES TO ALLOW FOR A MINIMUM OF 5 FEET SEPARATION TO GAS LINES THAT PARALLEL EACH OTHER.
- CONTRACTOR SHALL COORDINATE, AS NEEDED, WITH CONTRACTOR RESPONSIBLE FOR THE MONTANA VISTA SANITARY SEWER IMPROVEMENTS PHASE I IF BOTH PROJECTS ARE UNDER CONSTRUCTION SIMULTANEOUSLY

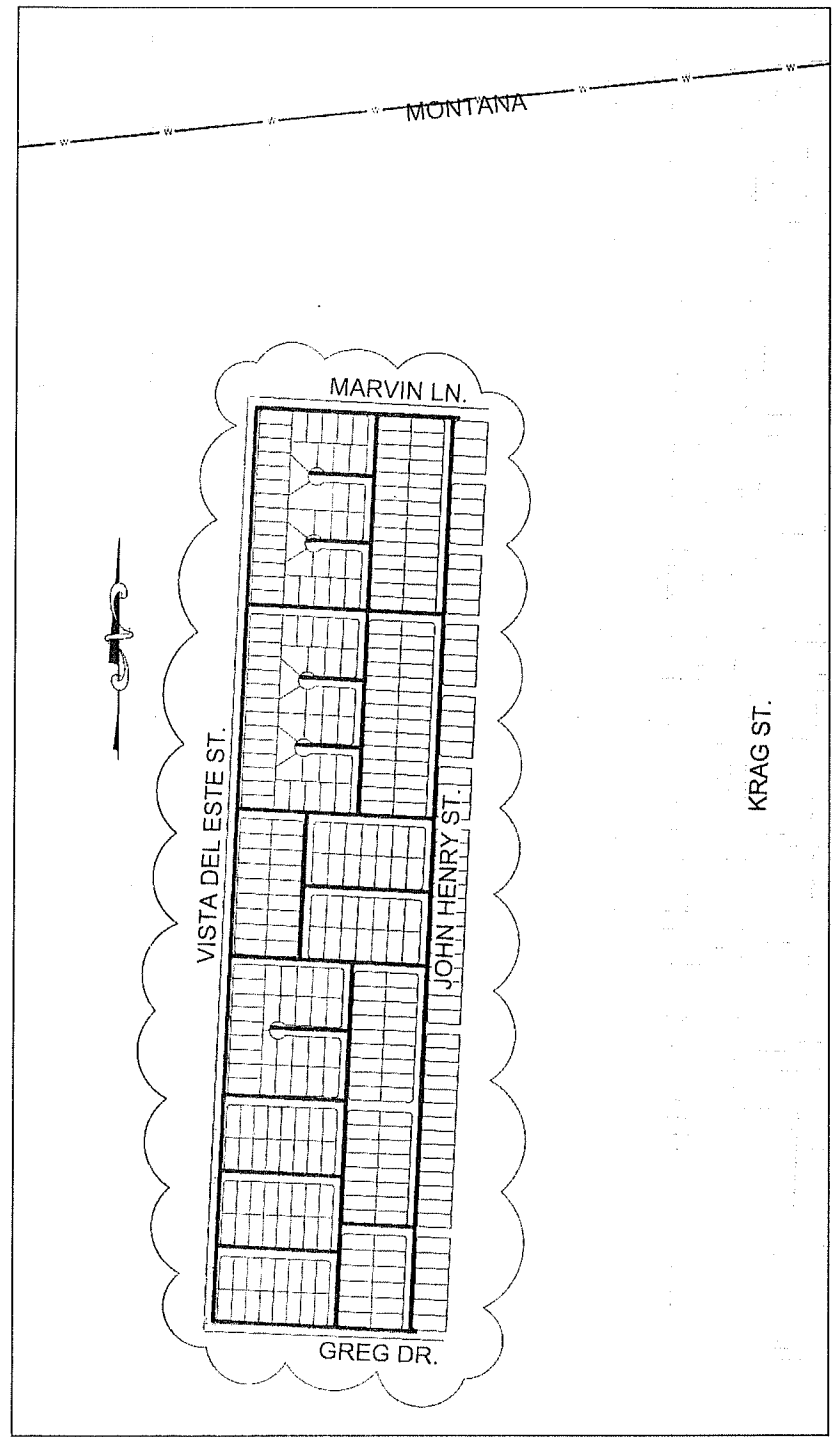
**BEFORE YOU DIG**

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

CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD LOCATING POT HOLE 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	344-4300
AT&T	1-800-285-8343
TIME WARNER CABLE	772-1123
ONE CALL	811 OR 1-800-344-8377
E.P. COUNTY WATER	479-2509
E.P. NATURAL GAS	471-9124
SW & P	1-800-861-7818
AT&T FIBER OPTICS	1-817-586-1056
DELL TELEPHONE COOP INC.	1-800-245-2591
ONEOK	740-8512
BUCKEYE GULF COAST PIPE LINES	1-817-530-5685

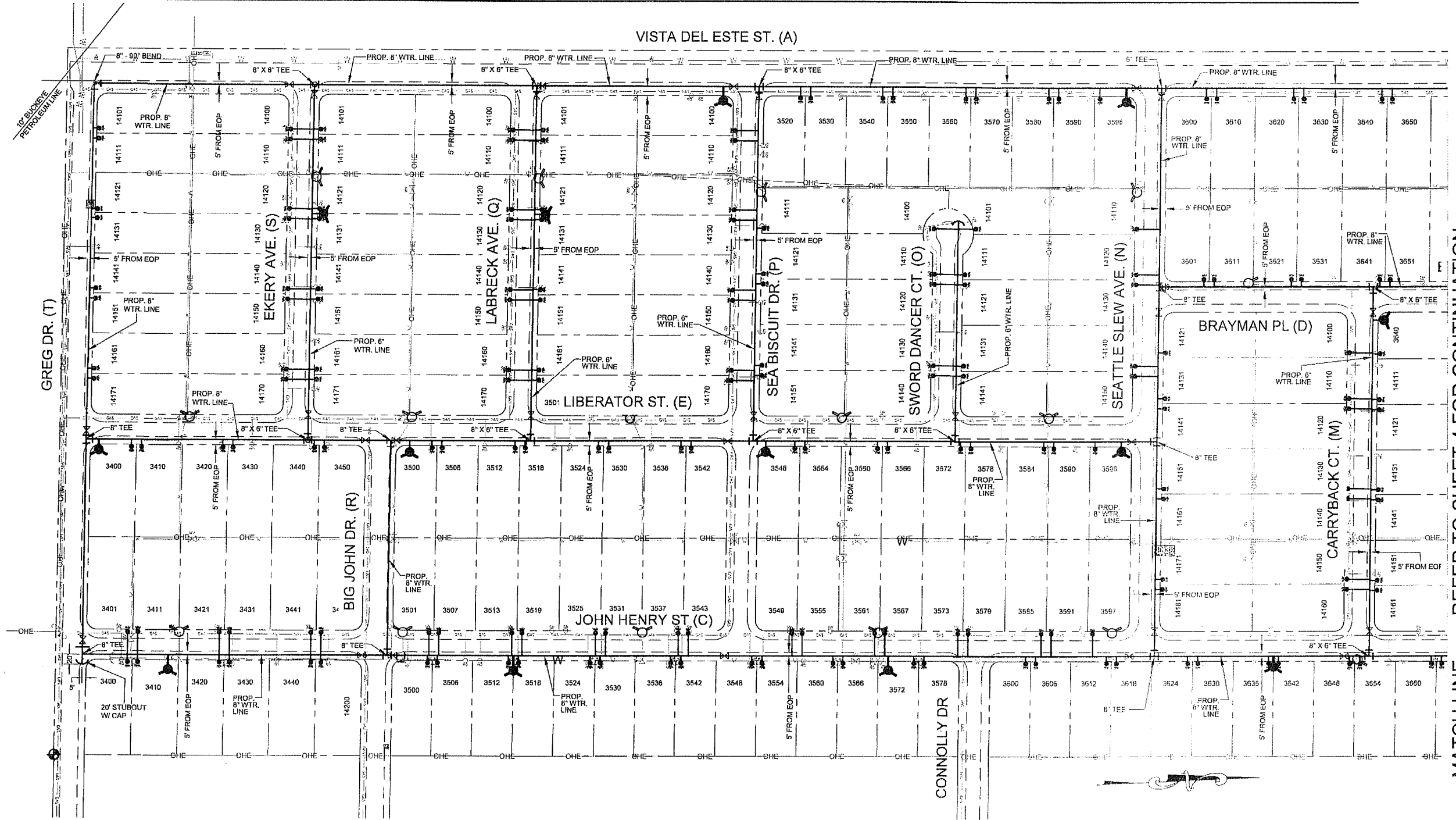


GENERAL LAYOUT

ENGINEER'S SEAL	REFERENCES	BENCHMARKS
SCALE:	DATE:	BY:
HOR. VER.	08/21/23	
DATE	DESIGN BY	CHECK BY
	APP'D. BY	
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		

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# VISTA DEL ESTE - WATER DISTRIBUTION SYSTEM



- 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'

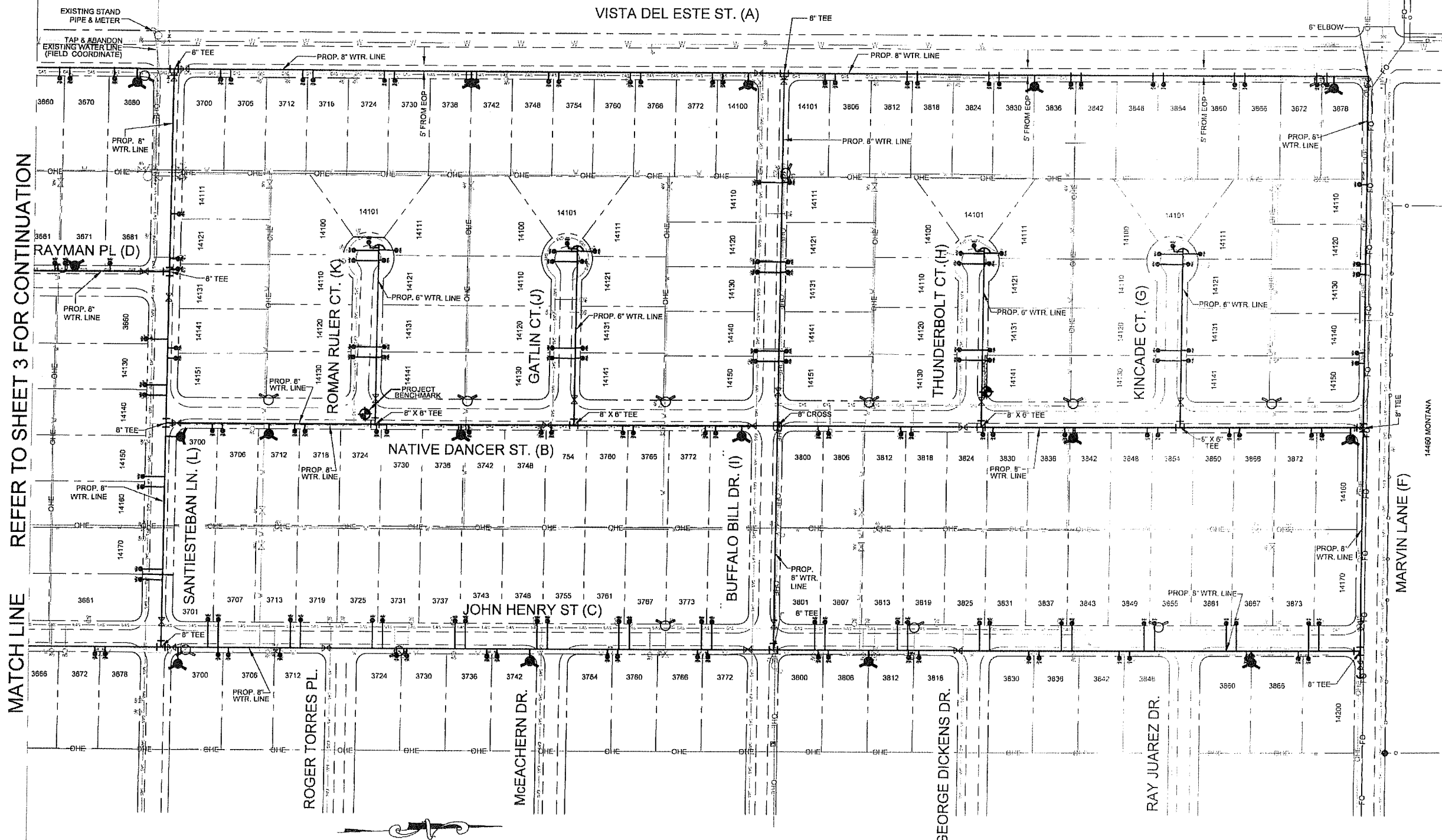
LEGEND	
	EXISTING POWER POLE
	EXISTING LIGHT POLE
	EXISTING SIGN
	EXISTING WATER VALVE
	EXISTING WATER METER
	EXISTING FIRE HYDRANT
	EXISTING WASTE WATER MANHOLE
	EXISTING TELEPHONE PEDestal
	EXISTING MAILBOX
	EXISTING CONTROL POINTS
	STREET ADDRESS
	8" WTR. LINE
	6" WTR. LINE
	4" WTR. LINE
	3" WTR. LINE
	2" WTR. LINE
	EXISTING PAVEMENT
	EXISTING CABLE LINE
	EXISTING GAS LINE
	EXISTING FENCE OR WALL
	EXISTING OVERHEAD ELECTRIC
	EXISTING FIRE PHONE CABLE
	PROPOSED WATER LINE
	EXISTING TREE
	EXISTING GAS METER
	PROPOSED CROSS
	PROPOSED TEE
	PROPOSED 90° BEND
	PROPOSED PLUG
	PROPOSED VALVE
	PROPOSED FIRE HYDRANT
	PROPOSED WATER METER
	EXISTING TREE
	EXISTING GAS METER

MATCH LINE REFER TO SHEET 4 FOR CONTINUATION

ENGINEER'S SEAL BENJAMIN J. GIBSON Professional Engineer No. 102527 State of Texas		DATE: 05/22/20 DRAWN BY: JLD CHECKED BY: JLD APP'D. BY: JLD
PROJECT NAME VISTA DELESTE WATER DISTRIBUTION SYSTEM		SHEET TITLE PLAN
COUNTY OF EL PASO PUBLIC WORKS DEPARTMENT		SHEET 3 OF 31

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# VISTA DEL ESTE - WATER DISTRIBUTION SYSTEM



MATCH LINE REFER TO SHEET 3 FOR CONTINUATION

**NOTES**

1. ALL PROPOSED WATER LINES TO BE 4 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		STREET ROW LINE
	EXISTING LIGHT POLE		EXISTING 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
	PROPOSED CROSS		PROPOSED TEE
	PROPOSED 90° BEND		PROPOSED PLUG
	PROPOSED VALVE		PROPOSED FIRE HYDRANT
	PROPOSED WATER METER		EXISTING TREE
	EXISTING GAS METER		

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**ENGINEER'S SEAL**

SCALE: 1"=100'

DATE: 07/22/18

DESIGN BY: F.H.

DRAWN BY: M.G.

CHECKED BY: J.L.

APP'D BY: [Signature]

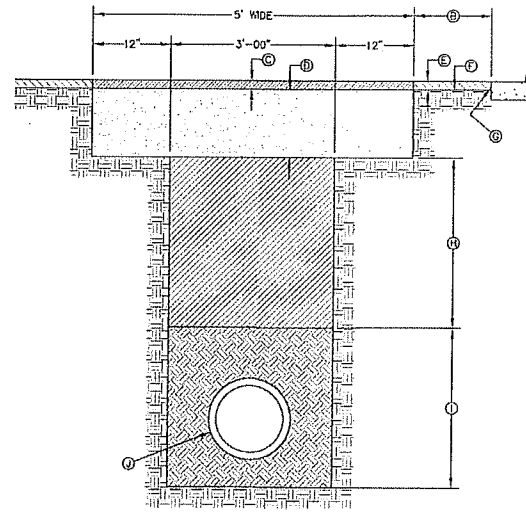
PROJECT NAME: VISTA DEL ESTE WATER DISTRIBUTION SYSTEM

COUNTY OF EL PASO PUBLIC WORKS DEPARTMENT

SHEET TITLE: PLAN

SHEET 4 OF 31

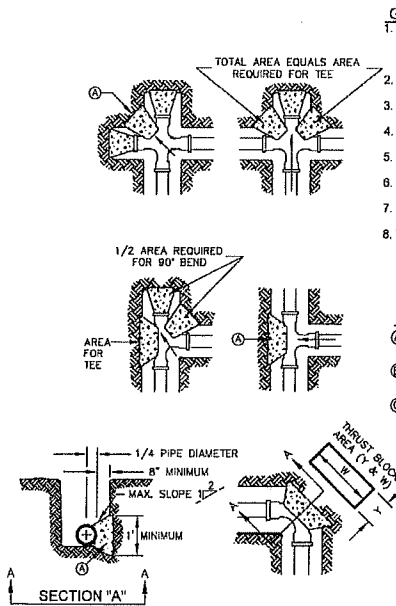
In County of El Paso



- 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 HMA/C 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 HMA/C-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.

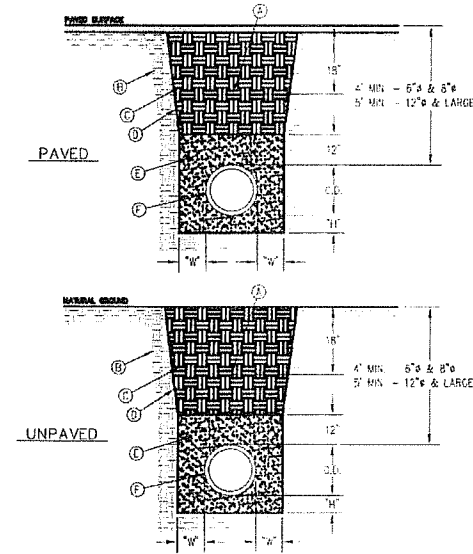


**CONCRETE THRUST BLOCKING**  
N.T.S.

- 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 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



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

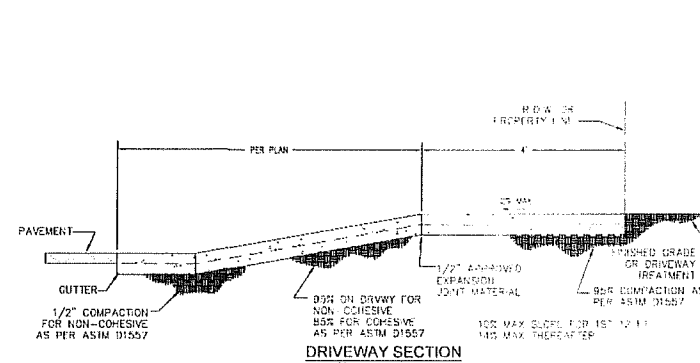
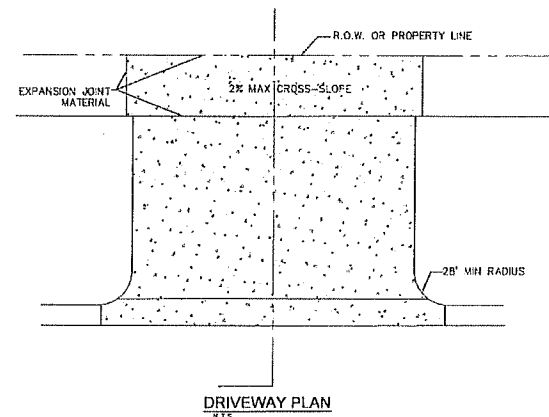
- GENERAL NOTES:**
1. BEDDING FOR PRESSURE AND GRAVITY PIPE IN DRY CONDITIONS.
  2. PROVIDE TRENCH SAFETY SYSTEM FOR TRENCH DEPTHS GREATER THAN 5 FEET.
  3. IF THE NATIVE MATERIAL EXCAVATED FROM THE TRENCH IS UNSUITABLE AS BACKFILL MATERIAL, OR THE REQUIRED COMPACTION IS UNATTAINABLE, THE CONTRACTOR 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 EPMM. 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.
  - D PAVED CONDITION: COMPACT TO 90% DENSITY PER ASTM D-1557 MODIFIED PROCTOR.
  - E UNPAVED CONDITION: COMPACT TO 85% DENSITY PER ASTM D-1557 MODIFIED PROCTOR. (SEE NOTE #3 IF THESE PREVIOUS CONDITIONS CANNOT BE MET.)
  - F SLOPE TRENCH IN SANDY SOIL CONDITIONS.
  - G 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-688 STANDARD PROCTOR).
  - H APPROVED PIPE.
  - I TRENCH DIMENSIONS AS FOLLOWS:

PIPE DIAMETER	"H"
6" - 30"	4"
GREATER THAN 30"	6"

PIPE DIAMETER	"I"
6" - 30"	8"
GREATER THAN 30"	12"



ENGINEER'S SEAL: [Signature]

SCALE: N.T.S.

DATE: 02/21/07

DESIGN BY: M.S.

DRAWN BY: E.H.

CHECKED BY: E.H.

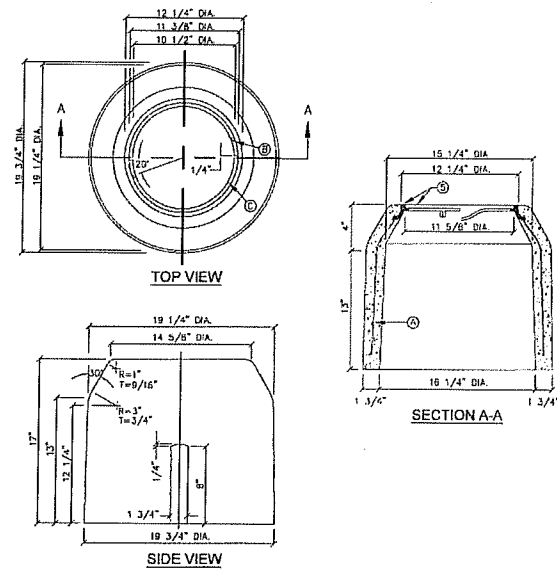
APPD. BY: E.H.

PROJECT NAME: VISTA DEL ESTE WATER DISTRIBUTION SYSTEM

COUNTY OF EL PASO PUBLIC WORKS DEPARTMENT

SHEET TITLE: DETAILS

SHEET: 5 OF 31



**GENERAL NOTES:**

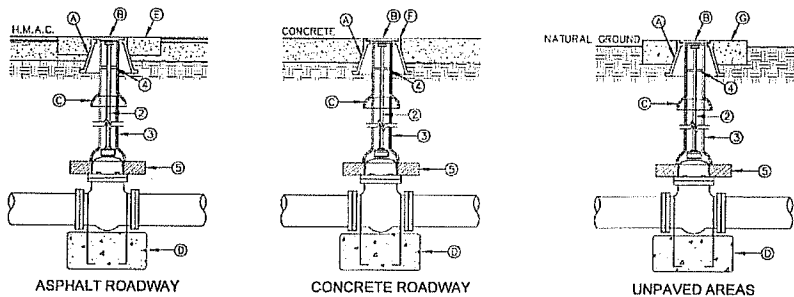
- INSTALL TO GRADE MATCHING TOP OF CURB.
- ANGLE VALVE SHALL BE IN LINE WITH THE INLET/OUTLET PORTS OF THE METER BOX.
- METER BOXES SHALL NOT BE INSTALLED UNDER SIDEWALKS, DRIVEWAYS, OR PROPOSED ABOVE GROUND STRUCTURES.
- WHERE NO CURBING EXISTS, INSTALL BOXES IN ACCESSIBLE LOCATIONS BEYOND LIMITS OF STREET SURFACING, WALKS AND DRIVEWAYS.
- METER BOX RING AND COVER PER EPWU DETAILS 300 AND 301.
- 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", 8 GAUGE BLACK ANNEALED WIRE
- B LUG-STOP C. CAST IRON RING

**METER BOX TYPE "A" SERVICE INSTALLATION**

N.T.S.



**GENERAL NOTES:**

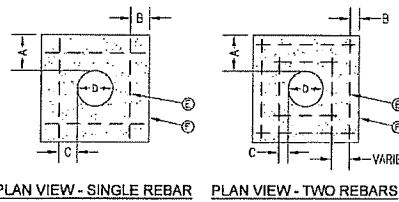
- VALVE TYPE AND VALVE ENDS SHALL BE AS SHOWN ON THE PLANS.
- ALL BURIED VALVES 8" AND DEEPER SHALL BE PROVIDED WITH SOLID STEEL EXTENSION STEM OPERATOR WITH 2" SQUARE ANWVA NUT WITHIN 36" OF VALVE BOX COVER. NUT IS TO INDICATE DIRECTION OF ROTATION TO OPEN VALVE.
- 8" DIA. MINIMUM VITRIFIED CLAY OR SDR 35 P.V.C. PIPE, PIPE SHALL NOT REST ON VALVE BODY.
- 1/2" THICK STEEL TRASH RING VALVE BOX INSIDE DIAMETER MINUS 1/2".
- MINIMUM 25" CONCRETE OR BRICK ALL AROUND.
- CLEAN BONNET BOX OF ALL DEBRIS AND SOIL.
- 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 288)
- (B) BONNET BOX COVER (SEE DETAILS 289-1 & 289-2)
- (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.

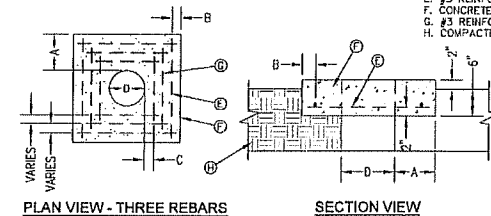


**GENERAL NOTES:**

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

**CONSTRUCTION KEY NOTES:**

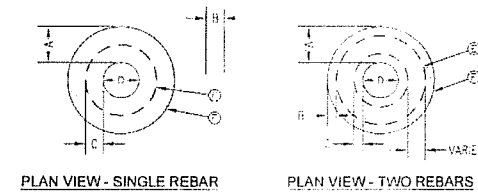
- E #3 REINFORCING STEEL TYP.
- F CONCRETE APRON.
- G #3 REINFORCING STEEL EQUALLY SPACED.
- H COMPACTED BACKFILL.



"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.

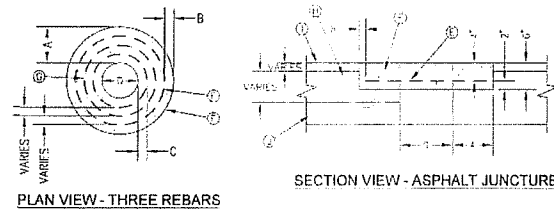


**GENERAL NOTES:**

- THE CONCRETE COLLAR SHOULD BE CAST IN-PLACE CONCRETE (MINIMUM 28 DAY COMPRESSIVE STRENGTH 4000 PSI. HIGH EARLY CONCRETE IS REQUIRED).
- TOPS OF CONCRETE COLLAR SHALL BE FLUSH WITH ROADWAY SURFACE OR FINISHED GRADE UNLESS OTHERWISE SPECIFIED BY THE ENGINEER.
- ANY DISTURBED SUBGRADE UNDER THE CONCRETE COLLAR SHALL BE COMPACTED TO 95% DENSITY ± 3% OPTIMUM MOISTURE CONTENT IN ACCORDANCE WITH ASTM D-1557.
- ANY DISTURBED BASE COARSE UNDER THE CONCRETE COLLAR SHALL BE COMPACTED TO 100% DENSITY ± 2% OPTIMUM MOISTURE CONTENT IN ACCORDANCE WITH ASTM D-1557.
- PROVIDE A MINIMUM OF 1 1/2" OF CONCRETE COVER FOR ALL REINFORCEMENT STEEL.
- REINFORCING SHALL MEET ASTM C-478 AND TRAFFIC LOADING (HS-20).
- NO. 3 REINFORCING STEEL HOOPS SHALL BE SPACED EQUALLY.

**CONSTRUCTION KEY NOTES:**

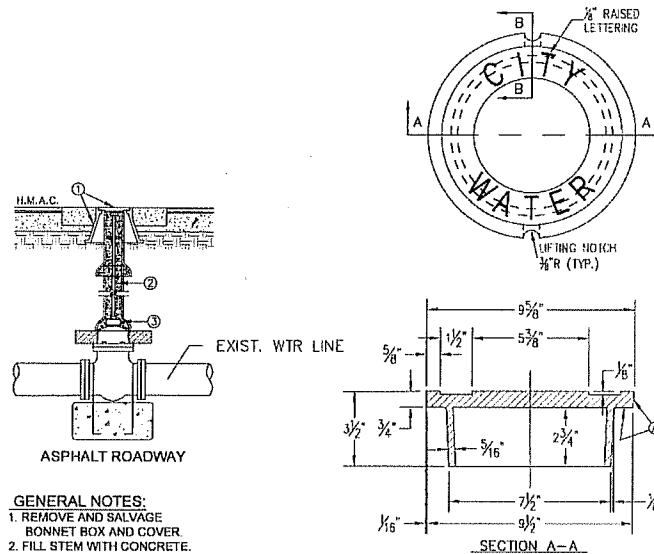
- E #3 REINFORCING STEEL TYP.
- F CONCRETE COLLAR.
- G #3 REINFORCING STEEL EQUALLY SPACED.
- H COMPACTED BASE COARSE.
- I PAVEMENT.
- J COMPACTED SUBGRADE.



"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	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 COLLAR INSTALLATION IN PAVED AREAS**

N.T.S.



**GENERAL NOTES:**

- CASTING TO BE SMOOTH AND VOID OF AIR HOLES
- WEIGHT OF COVER IS 18 POUNDS

**CONSTRUCTION KEY NOTES:**

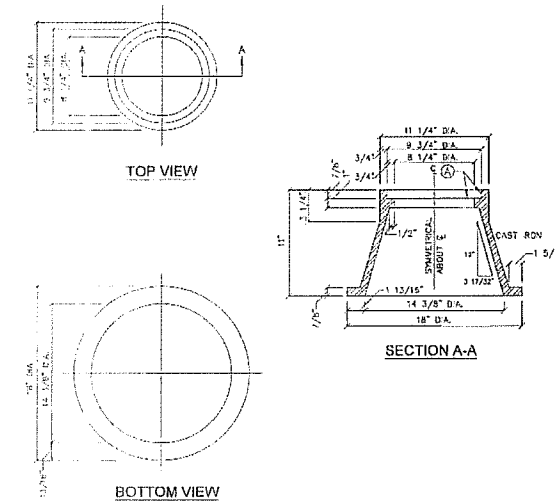
- A TO BE ROUGH GROUND OF ANY IRREGULARITIES THAT WOULD PREVENT A SNUG FIT.

**BONNET BOX COVER (FLIP RESISTANT)**

N.T.S.

**ABANDONMENT OF EXISTING VALVES**

N.T.S.



**GENERAL NOTES:**

- CASTING TO BE SMOOTH AND VOID OF AIR HOLES.
- 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'S SEAL  
 STATE OF TEXAS  
 COUNTY OF EL PASO  
 I, [Signature], ENGINEER  
 LICENSE NO. [Number]  
 EXPIRES [Date]

SCALE: N.T.S.  
 DATE: [Date]  
 DESIGN BY: [Name]  
 DRAWN BY: [Name]  
 CHECKED BY: [Name]  
 APPRO. BY: [Name]

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

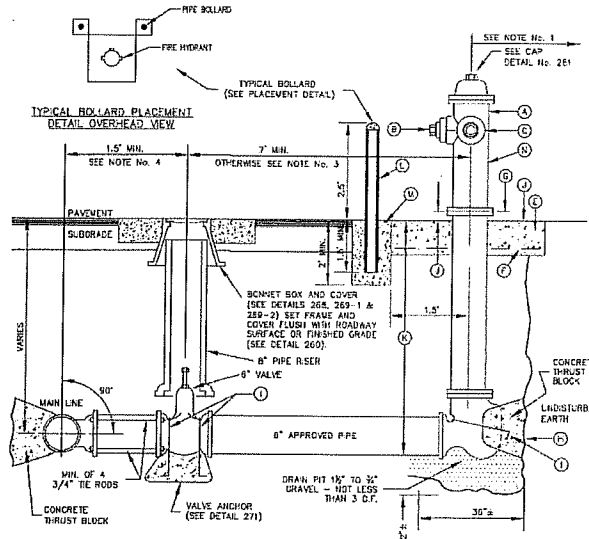
COUNTY OF EL PASO  
 PUBLIC WORKS DEPARTMENT

SHEET TITLE

DETAILS

SHEET  
 6 OF 31

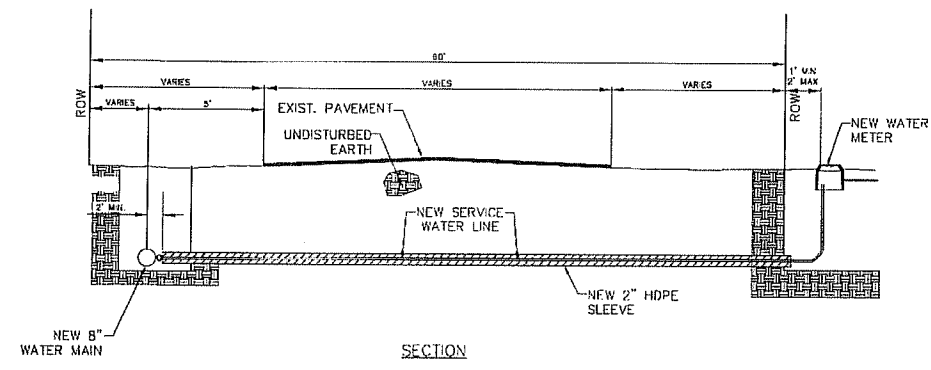
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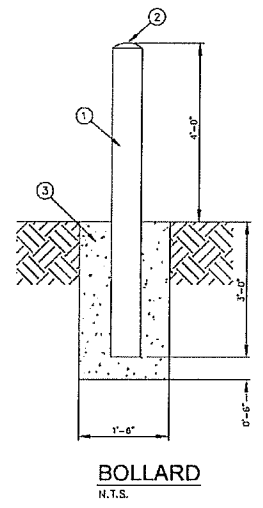
- GENERAL NOTES:**
1. NO OBSTRUCTIONS WILL BE PERMITTED WITHIN 5 FT. IN ALL DIRECTIONS OF FIRE HYDRANT (PER EL PASO MUNICIPAL CODE, TITLE 12). FIRE HYDRANT SHALL NOT BE PLACED IN WHEEL CHAIR RAMP OR DRIVEWAY.
  2. FIRE HYDRANT SHALL BE LOCATED AT THE BEGINNING OF CURB RETURN OR AT THE PROPERTY LINE COMMON TO ADJOINING LOTS, UNLESS OTHERWISE SHOWN ON PLANS. REFER TO DETAIL No. 282 FOR SPECIAL CASES.
  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 MECHANICAL ENDS WITH 3/4" 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 AND HYDRANTS.

- 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 2 1/2"
  - (D) 1/2" PREMOLDED EXPANSION JOINT WITH 1" TOP FILLER
  - (E) 3'x3'x8" CONC. SQ. PAD, TO BE CONSTRUCTED AROUND FIRE HYDRANT'S CENTER LINE WHEN NOT LOCATED WITHIN SIDEWALK OR CONC. AREA.
  - (F) #10, 66" 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" TO 6" BELOW THE BREAK LINE OF THE HYDRANT.
  - (K) 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.
  - (L) 4" OUTSIDE DIAMETER STEEL PIPE (PAINTED SAFETY YELLOW) FILLED SOLID WITH CONCRETE.
  - (M) 3000 P.S.I. CONCRETE
  - (N) REQUIRED - DAVIDSON ANTI TERRORISM CORROSION RESISTANT VALVE KIT (DATV).

**FIRE HYDRANT INSTALLATION**  
N.T.S.

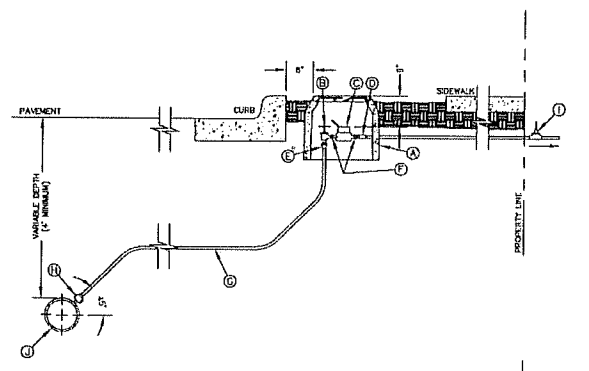


**TYPICAL SERVICE TRENCH**  
N.T.S.



**BOLLARD**  
N.T.S.

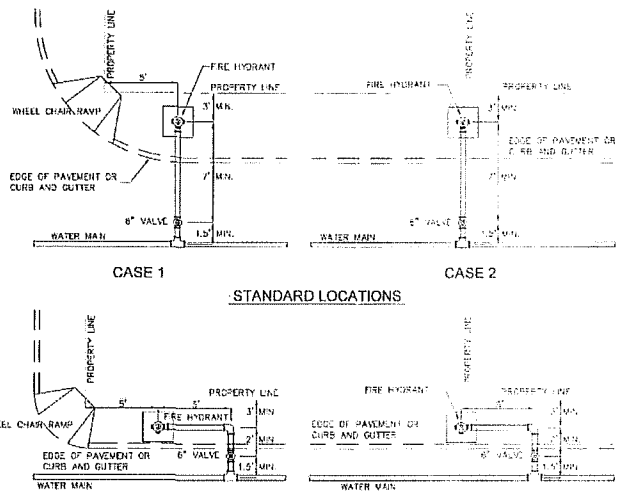
- GENERAL NOTES:**
1. 6" DIAMETER STEEL POST, FILL WITH CONCRETE AND PAINT WITH TWO COATS OF YELLOW REFLECTORIZED PAINT.
  2. CONCRETE DOME
  3. CONCRETE FILL, 3,000 P.S.I. (MIN.)



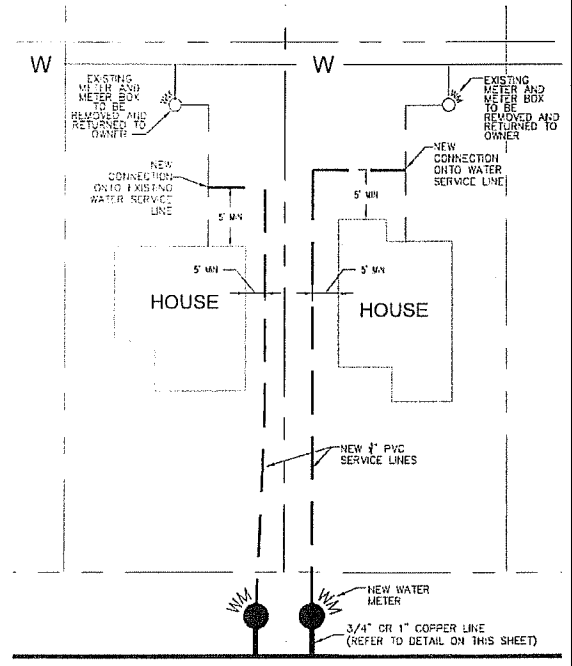
- GENERAL NOTES:**
1. DETAIL SHOWN FOR A 3/4" SERVICE. 1" SERVICE INSTALLATION IS SIMILAR EXCEPT FOR SIZES OF PIPE, FITTING, METER AND BOX (TYPE 'B').
  2. WHERE NO CURB EXISTS, METER IS TO BE SET NEAR PROPERTY LINE OR AT DESIGNATED LOCATION.
  3. THE CONTRACTOR SHALL FURNISH AND INSTALL ALL NECESSARY PIPE, FITTINGS, AND METER BOXES REQUIRED. THE CONTRACTOR SHALL INSTALL ALL ITEMS NECESSARY TO CONNECT RESIDENTS. (TO BE FULLY FUNCTIONAL).
  4. NO SPLICING SHALL BE ALLOWED. FULL LENGTH OF PIPING SERVICE SHALL BE INSTALLED.
  5. CONTRACTOR SHALL BE RESPONSIBLE FOR PAYMENT OF WATER SERVICE METERS AND ALL COORDINATION REQUIRED WITH EPWU FOR INSTALLATION.
  6. CONTRACTOR SHALL COORDINATE WITH EPWU FOR SCHEDULING OF ALL WATER SERVICE METER INSTALLATIONS.

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

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



**FIRE HYDRANT LOCATIONS**  
N.T.S.



**RESIDENT ROUTING DETAIL**  
N.T.S.

- GENERAL NOTES:**
1. THE CONTRACTOR SHALL TRENCH THE PROPERTY TO ROUTE THE NEW WATER SERVICE TO AVOID INTERRUPTION OF EXISTING SERVICE.
  2. 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.
  3. THE CONTRACTOR SHALL INSTALL NECESSARY FITTINGS AND CONNECTIONS TO THE EXISTING SERVICE LINE TO MAKE ADEQUATE TE-IN INTO THE RESIDENTIAL SYSTEM.
  4. THE CONTRACTOR SHALL BACKFILL AND COMPACT TRENCH TO MINIMUM STANDARDS 90% COMPACTION IF UNREMOVED 95% COMPACTION IF UNDER ANY SURFACE.
  5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING ALL LEAKS OR DAMAGES CAUSED TO THE EXISTING OR NEW SERVICE LINE THAT OCCUR DURING CONSTRUCTION PERIOD.
  6. CONTRACTOR SHALL COORDINATE THE FINAL LOCATION OF NEW WATER METER WITH PROPERTY OWNER, ENGINEER AND COUNTY.
  7. EXISTING METER AND METER BOX TO BE REMOVED AND RETURNED TO OWNER, PER EPW REQUIREMENTS.

- GENERAL NOTES:**
1. FOR CASE I FIRE HYDRANT SHALL BE LOCATED AT A DISTANCE OF 5 FT. MINIMUM FROM THE PROPERTY LINE OR AT THE BEGINNING OF CURB RETURN.
  2. FOR CASE II FIRE HYDRANT SHALL BE LOCATED AT THE PROPERTY LINE COMMON TO ADJOINING LOTS.
  3. FOR CASE III AND IV WHERE THE DISTANCE BETWEEN THE VALVE AND THE HYDRANT IS LESS THAN 7 FT. PLACE HYDRANT AS SHOWN.
  4. FOR INSTALLATION OF FIRE HYDRANT SEE DETAIL 280-1 OR 280-2.
  5. 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.).
  6. WHEN INSTALLATION IS WITHIN 10' DOT RIGHT OF WAY, HYDRANT SHALL NOT BE PLACED IN SIDEWALK AREA OR ANY CLOSER THAN 5' FROM BACK OF CURB.

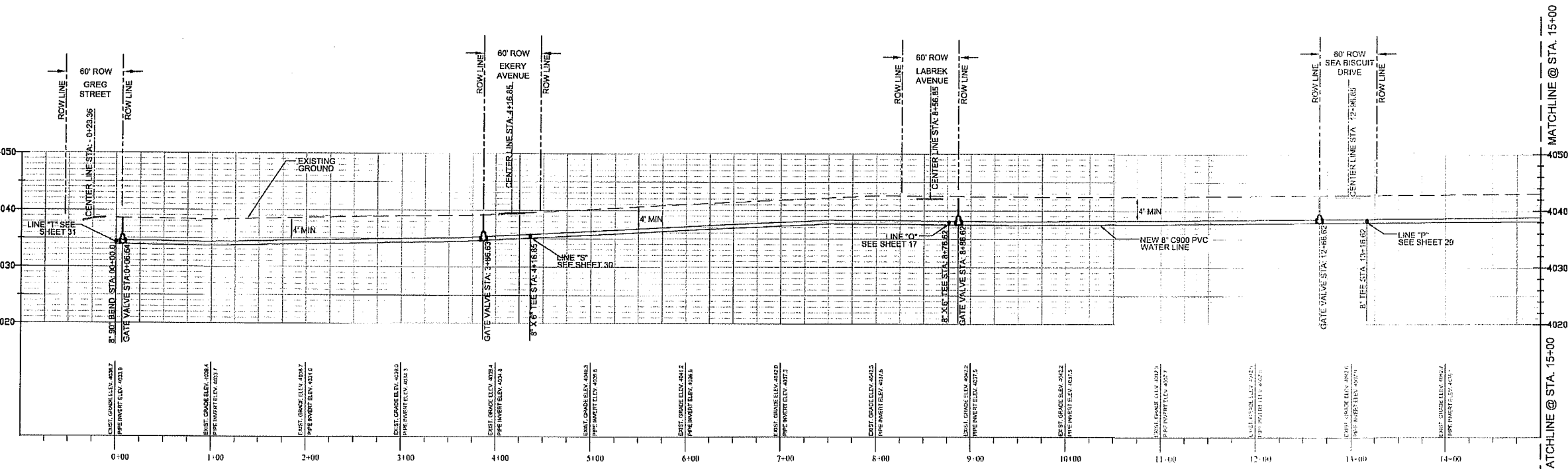
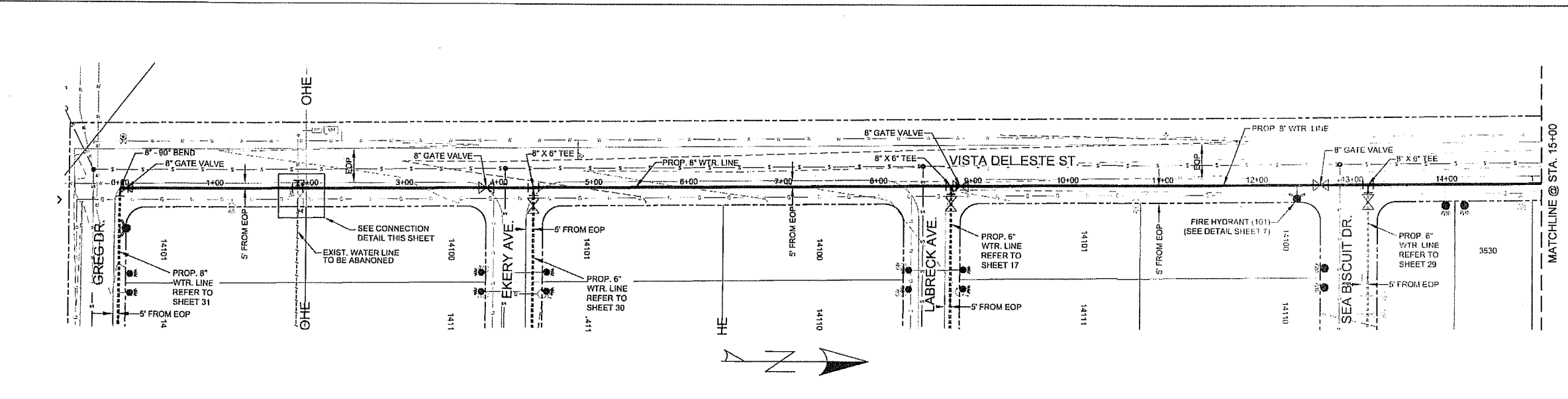
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DATE	05/27/19
DESIGN BY	N.C.
DRAWN BY	N.C.
CHECK BY	F.H.
APPROVED BY	F.H.
DATE	10/27/19

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

COUNTY OF EL PASO  
PUBLIC WORKS DEPARTMENT



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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'

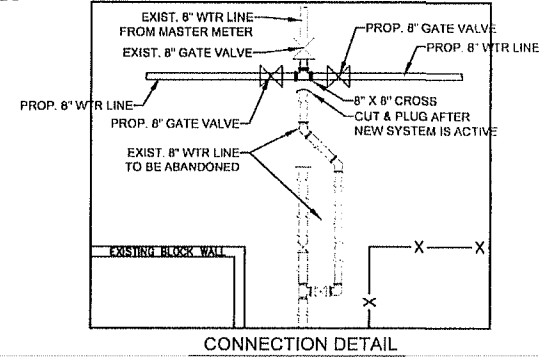
- DIG TIPS**
- EL PASO ELECTRIC CO. - 543-2047
  - TEXAS GAS SERVICE - 644-5300
  - AT&T - 1-800-288-8343
  - TIME WARNER CABLE - 772-1123
  - ONE CALL - 811 OR 1-800-344-8377
  - E.P. COUNTY WATER - 855-1681
  - E.P. NATURAL GAS - 471-0124
  - SM & P - 1-800-681-1678
  - AT&T FIBER OPTICS - 1-800-245-2991
  - DELL TELEPHONE COOP. INC. - 740-8512
  - ONEOK - 1-877-530-5665
  - BUCKEYE GULF COAST PIPE LINES

**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 HOLES 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**

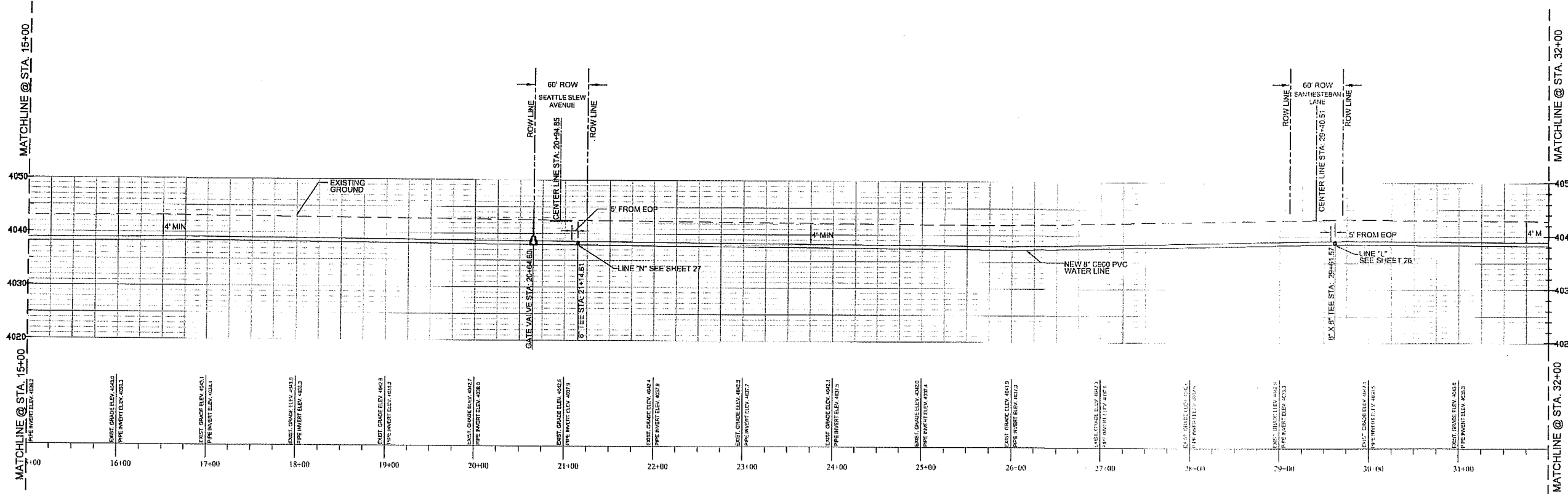
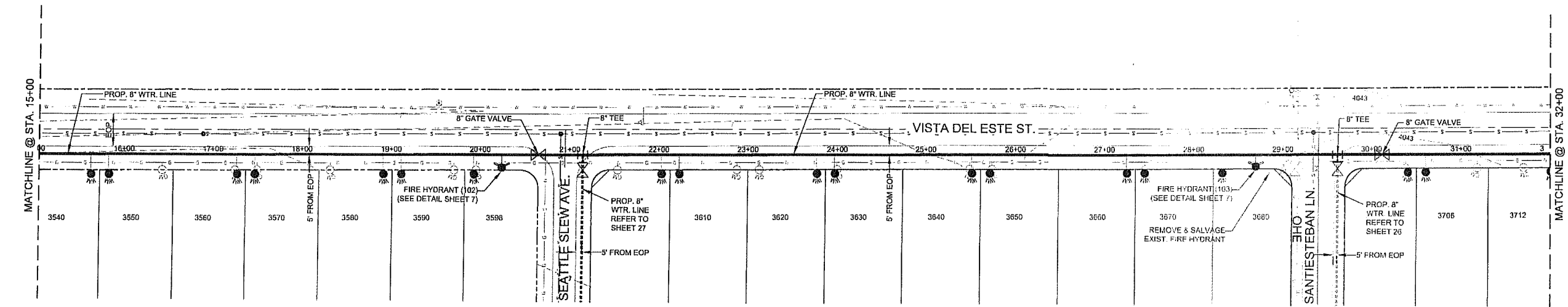
	EXISTING MANHOLE		STREET ROW LINE		PROPOSED CROSS
	EXISTING LIGHT POLE		EXISTING EDGE OF PAVEMENT		PROPOSED TEE
	EXISTING SIGN		CATV		PROPOSED 90° BEND
	EXISTING WATER VALVE		EXISTING WATER LINE		PROPOSED CAP
	EXISTING WATER METER		GAS		PROPOSED VALVE
	EXISTING FIRE HYDRANT		EXISTING FENCE OR WALL		PROPOSED FIRE HYDRANT
	EXISTING WASTE WATER MANHOLE		EXISTING FIRE HYDRANT ELECTRIC		PROPOSED WATER METER
	EXISTING ELECTRICAL PEDESTAL		EXISTING FIBER OPTIC CABLE		EXISTING TREE
	EXISTING MANHOLE		PROPOSED WATER LINE		EXISTING GAS METER
	EXISTING CONTROL VAULT		EXISTING LOT LINE		

XXXX - STREET ADDRESS

PROJECT NAME <b>VISTA DEL ESTE WATER DISTRIBUTION SYSTEM</b>	ENGINEER'S SEAL 	SCALE: 1"=60'	REFERENCES --- BENCHMARKS ---	REVISIONS <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th>NO.</th> <th>DATE</th> <th>BY</th> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> </table>	NO.	DATE	BY			
NO.	DATE	BY								
<b>COUNTY OF EL PASO</b> PUBLIC WORKS DEPARTMENT										
<b>SHEET TITLE</b> <b>8" WATER LINE VISTA DEL ESTE PLAN &amp; PROFILE</b>										
<b>SHEET</b> <b>8 OF 31</b>										



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- DIG TESS - 1-811
- EL PASO ELECTRIC CO. - 543-2047
- TEXAS GAS SERVICE - 544-6320
- 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 - 1-888-681-7878
- AT&T FIBER OPTICS - 1-817-689-1096
- DELL TELEPHONE - COOP INC. - 1-800-245-2391
- ONECK - 740-5512
- BUCKEYE GULF COAST PIPE LINES - 1-877-530-6685

**BEFORE YOU DIG**

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

CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD LOCATING, POI HOLDING 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 STREET FROM GREG STREET TO MARVIN LANE  
 HORIZONTAL SCALE: 1"=60'  
 VERTICAL SCALE: 1"=10'

**LEGEND**

⊕	EXISTING POWER POLE	---	STREET ROW LINES	⊕	PROPOSED CROSS
⊙	EXISTING LIGHT POLE	---	EXISTING EDGE OF PAVEMENT	⊕	PROPOSED TEE
⊖	EXISTING MANHOLE	---	GATV	⊕	PROPOSED 60" BEND
⊕	EXISTING WATER VALVE	---	W	---	EXISTING WATER LINE
⊕	EXISTING WATER METER	---	GAS	---	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 MANHOLE	---	---	---	PROPOSED WATER LINE
⊕	EXISTING TELEPHONE	---	---	---	EXISTING 10" LINE
⊕	EXISTING TELEPHONE	---	---	---	EXISTING 10" LINE

ENGINEER'S SEAL: [Seal]

SCALE: [Scale]

DATE: [Date]

DESIGN BY: [Name]

DRAWN BY: [Name]

CHECKED BY: [Name]

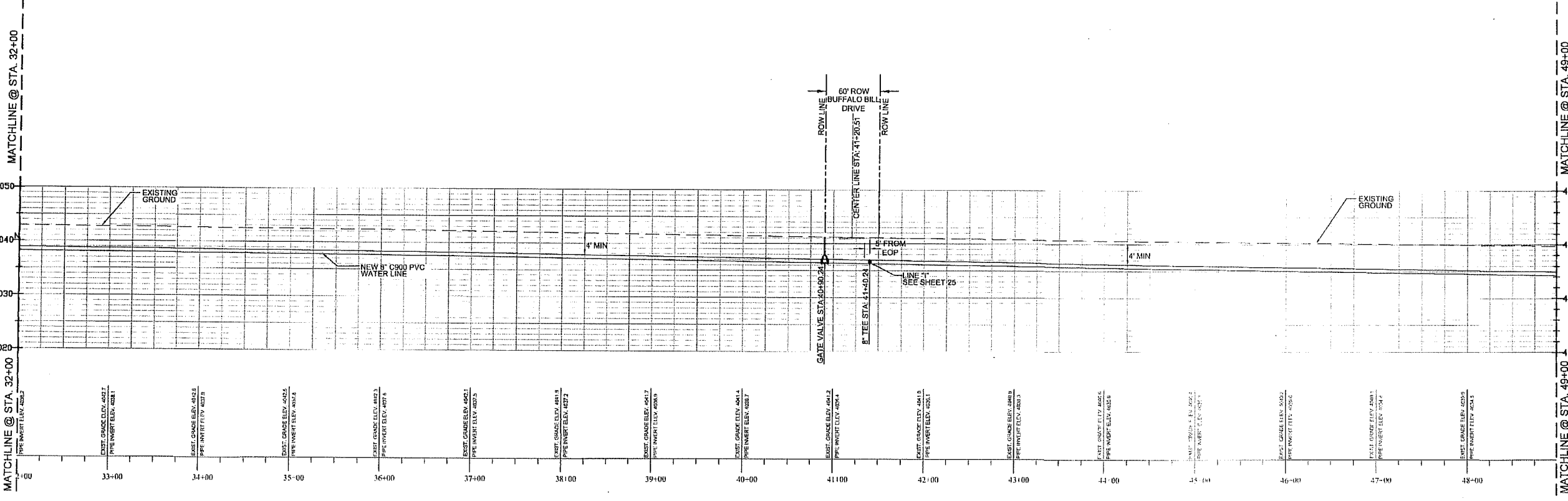
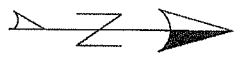
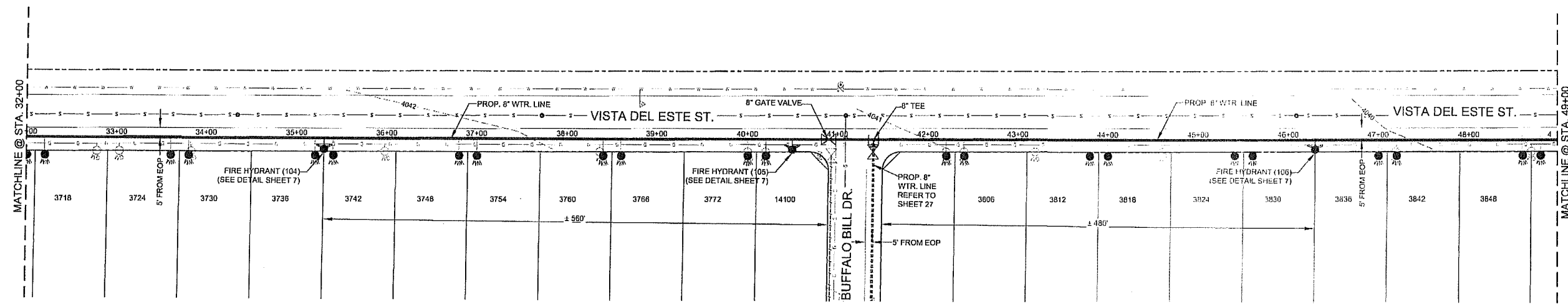
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PROJECT NAME: **VISTA DEL ESTE WATER DISTRIBUTION SYSTEM**

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 - 1-800-288-8343
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- SM & P - 1-800-981-7878
- AT&T FIBER OPTICS - 1-817-589-1055
- DELL TELEPHONE COOP INC - 1-800-245-2291
- TRWY ATTD - 745-6512
- DNEG - 1-877-530-5685
- BUCKEYE GULF COAST PIPE LINES - 1-877-530-5685

**BEFORE YOU DIG**

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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 ROW LINE		PROPOSED CROSS
	EXISTING LIGHT POLE		EXISTING EDGE OF PAVEMENT		PROPOSED TEE
	EXISTING GAS		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 FINCH OR WALL		PROPOSED FIRE HYDRANT
	EXISTING WATER MANIFOLD		EXISTING OVERHEAD ELECTRIC		PROPOSED WATER METER
	EXISTING TELEPHONE PEDestal		EXISTING FIBER OPTIC CABLE		EXISTING TREE
	EXISTING MANHOLE		PROPOSED WATER LINE		EXISTING GAS METER
	EXISTING CONTROL POINTS		EXISTING LOT LINE		

ENGINEER: SEAL  
 DATE: 05/21/15  
 DESIGN BY: F.H.  
 DRAWN BY: M.C.  
 CHECKED BY: F.H.  
 APPROVED BY: F.H.

SCALE: 1"=60'

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

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|----------------------|-------------------------|
| DIG TESS             | - 1-811                 |
| EL PASO ELECTRIC CO. | - 543-2047              |
| TEXAS GAS SERVICE    | - 544-3329              |
| AT&T                 | - 1-800-285-8343        |
| TIME WARNER CABLE    | - 772-1123              |
| ONE CALL             | - 811 OR 1-800-344-8377 |
| E.P. COUNTY WATER    | - 855-1851              |
| E.P. NATURAL GAS     | - 471-0124              |
| SW & P               | - 1-855-861-7678        |
| AT&T FIBER OPTICS    | - 1-817-589-1058        |
| DELL TELEPHONE       |                         |
| COOP INC.            | - 1-800-248-2991        |
| TX&W AT&D            | - 740-6512              |
| ONEOK                |                         |
| BUCKEYE GULF COAST   | - 1-877-630-5685        |
| PIPE LINES           |                         |

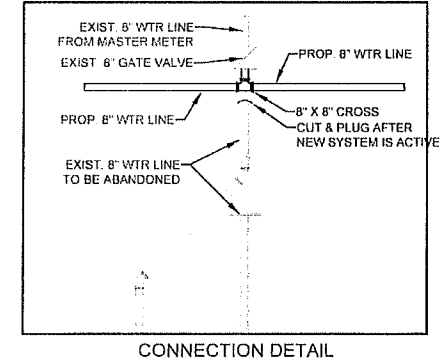
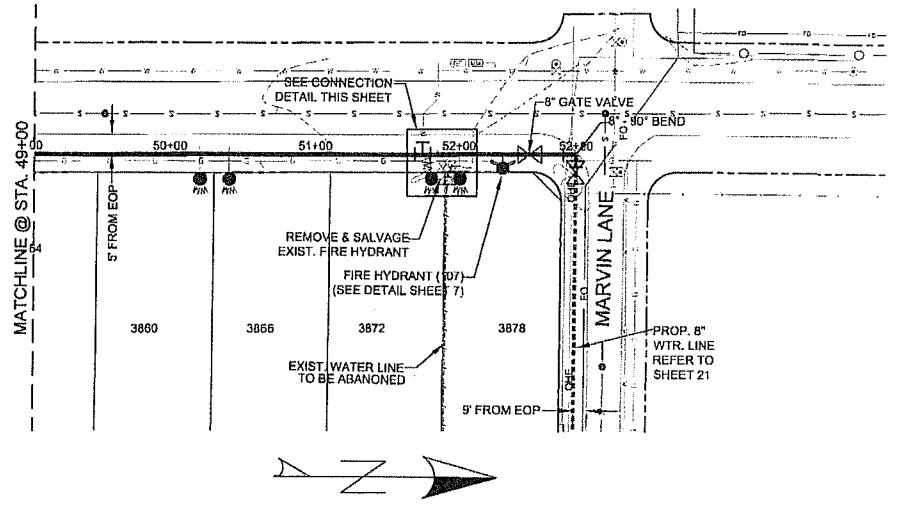
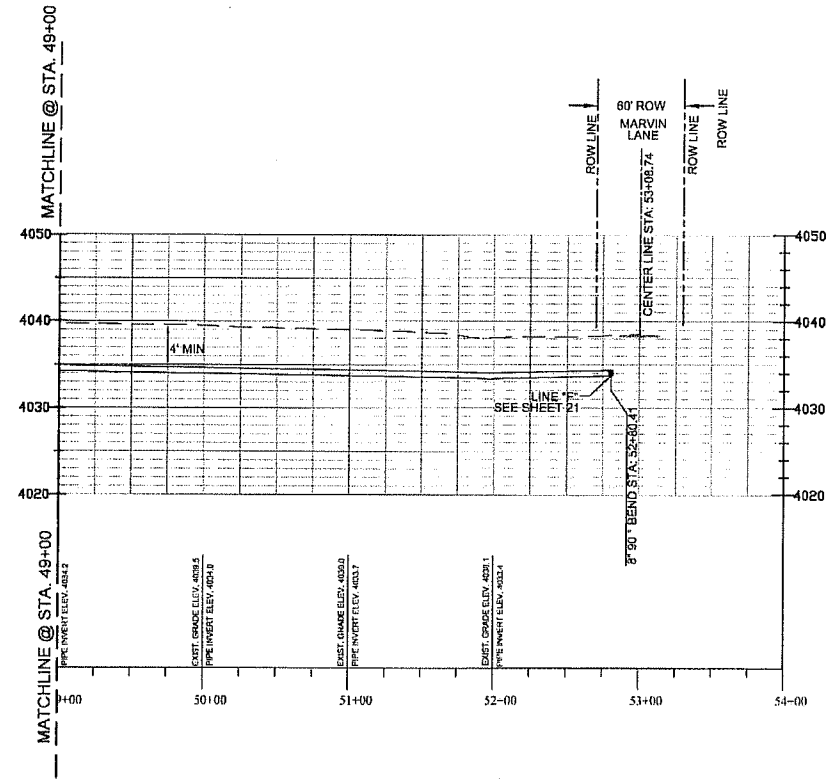
**BEFORE YOU DIG**

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

CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD LOCATING, POT HOLEING 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		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 MANHOLE		PROPOSED WATER LINE		EXISTING GAS METER
	EXISTING EASEMENT POINTS		BAGING LOT LINE		

**COUNTY OF EL PASO**  
 PUBLIC WORKS DEPARTMENT

**VISTA DEL ESTE**  
 WATER DISTRIBUTION SYSTEM

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

SHEET  
 11 of 31

ENGINEER'S SEAL: [Seal of El Paso County, Texas, License No. 102537]

SCALE: [Blank]

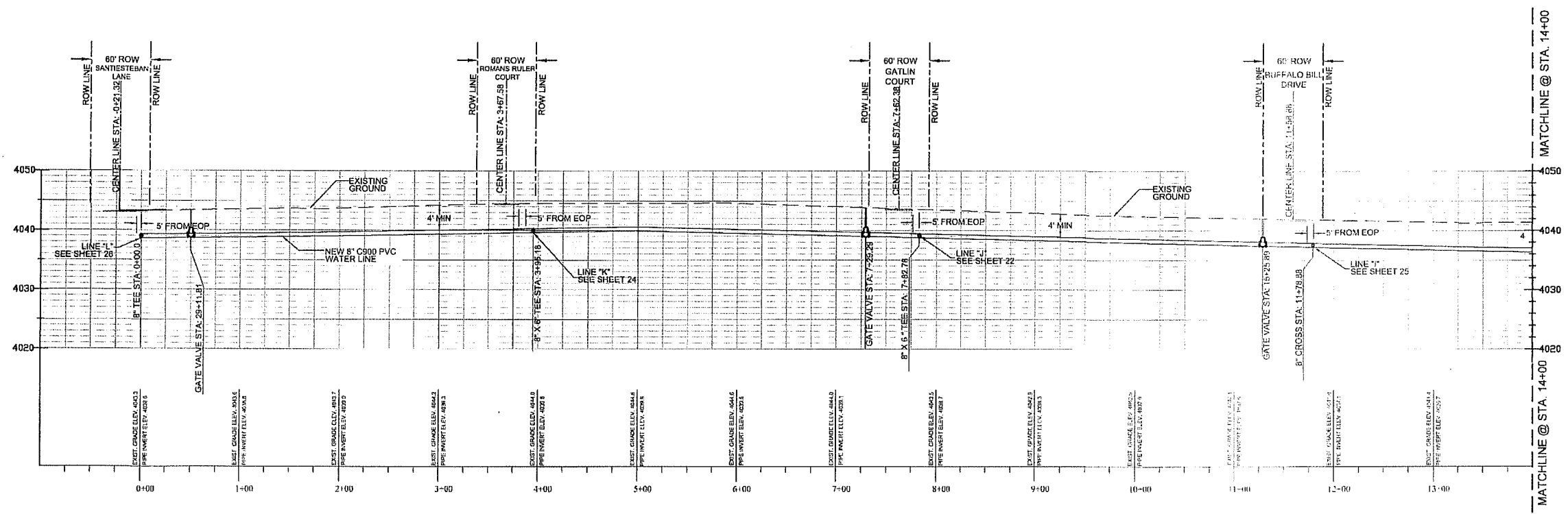
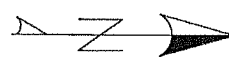
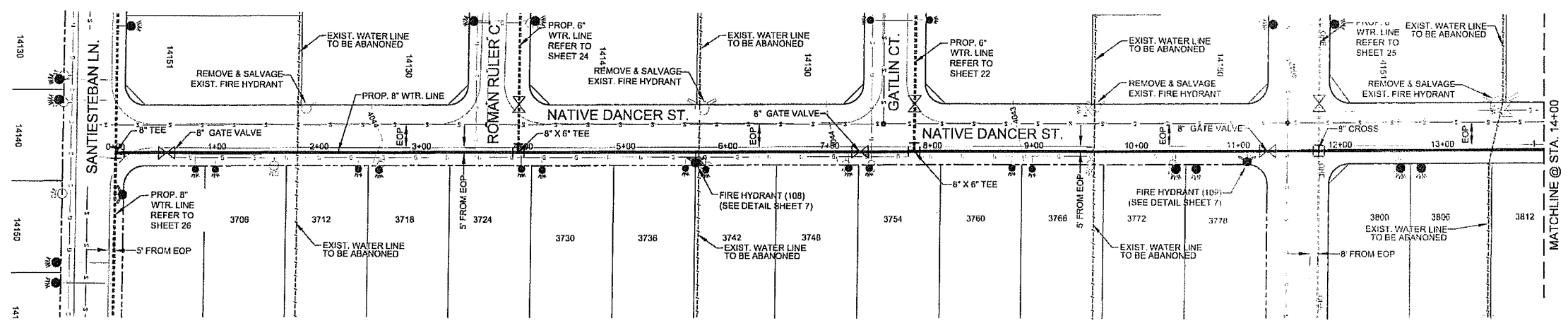
DATE: 08/22/18  
 DRAWN BY: [Blank]  
 CHD. BY: [Blank]  
 APPD. BY: [Blank]

PROJECT NAME: VISTA DEL ESTE WATER DISTRIBUTION SYSTEM

REFERENCES: [Blank]

BENCHMARKS: [Blank]

*El Paso County*



- DIG TESS - 1-811
- EL PASO ELECTRIC CO. - 543-2947
- TEXAS GAS SERVICE - 544-3329
- AT&T - 1-800-286-8343
- TIME WARNER CABLE - 772-1123
- ONE CALL - 811 OR 1-800-344-8377
- E.P. COUNTY WATER - 855-1981
- S.M.A.P. - 471-5124
- AT&T FIBER OPTICS - 1-800-861-7675
- DELL TELEPHONE - 1-817-585-1038
- COOP INC. - 1-800-245-2991
- TXNWX-AT&T - 740-8512
- BUCKEYE GULF COAST PIPE LINES - 1-877-530-5585

**BEFORE YOU DIG**

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

**LEGEND**

	EXISTING WATER LINE		PROPOSED CROSS
	EXISTING WATER VALVE		PROPOSED TEE
	EXISTING WATER METER		PROPOSED 90° BEND
	EXISTING FIRE HYDRANT		PROPOSED CAP
	EXISTING WASTE WATER MANHOLE		PROPOSED VALVE
	EXISTING FIRE HYDRANT (WITH METER)		PROPOSED FIRE HYDRANT
	EXISTING WATER METER		PROPOSED WATER METER
	EXISTING MANHOLE		EXISTING FIRE HYDRANT
	EXISTING OVERHEAD ELECTRIC		EXISTING GAS METER
	EXISTING FIBER OPTIC CABLE		
	PROPOSED WATER LINE		
	EXISTING LOT LINE		

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

SCALE: 1"=60'

DATE: 09/21/18  
 DESIGN BY: M.S.  
 DRAWN BY: C.S.  
 CHECKED BY: J.S.  
 APPROVED BY: [Signature]

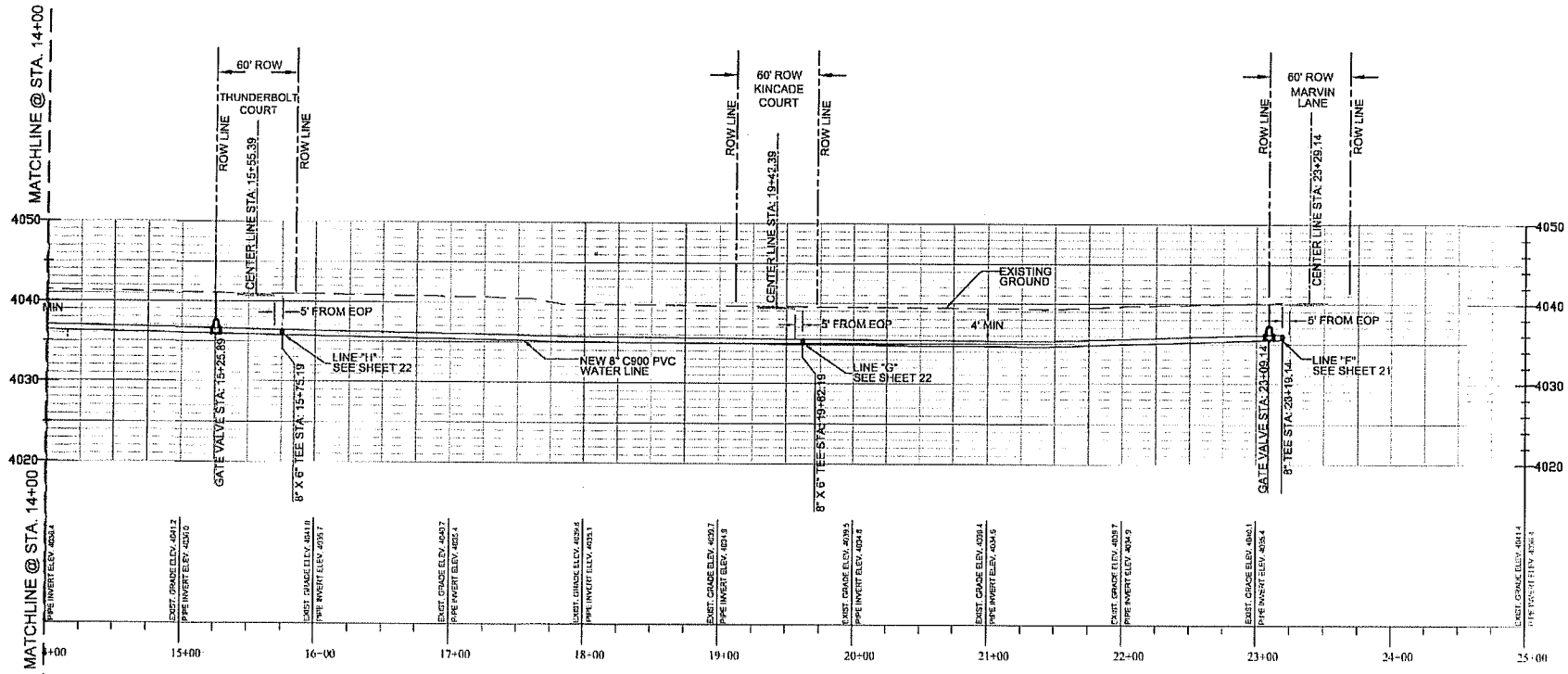
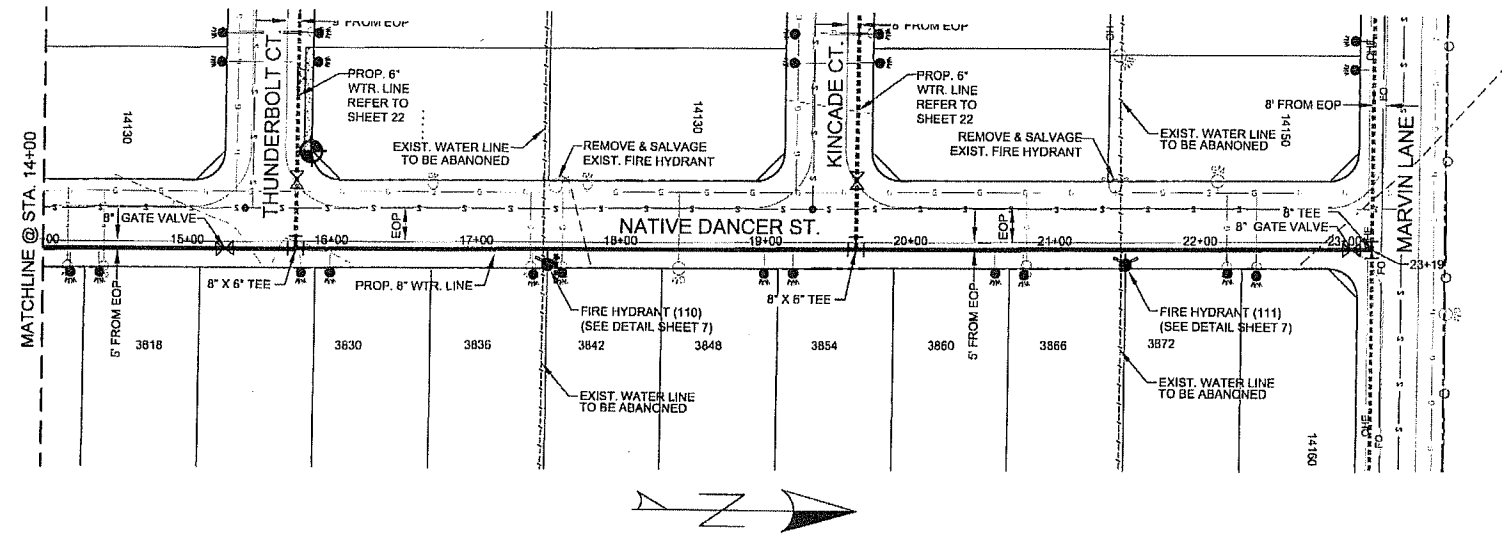
PROJECT NAME: VISTA DEL ESTE WATER DISTRIBUTION SYSTEM

COUNTY OF EL PASO PUBLIC WORKS DEPARTMENT

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

SHEET 12 OF 31

S:\Projects\1809-001\_002a\Drawings\Construction\Drawings\1809-001\_002a-P&P.dwg, 8/27/2018, Read by: AW



- DIG TESS - 1-811
- EL PASO ELECTRIC CO. - 543-2047
- TEXAS GAS SERVICE - 844-8200
- AT&T - 1-800-238-8343
- TIME WARNER CABLE - 772-1123
- DNE CALL - 811 OR 1-800-344-8377
- E.P. COUNTY WATER - 655-1851
- E.P. NATURAL GAS - 471-0124
- SM & P - 1-800-891-7678
- AT&T FIBER OPTICS - 1-817-589-1056
- DELL TELEPHONE - 1-800-245-2991
- COOP INC. - 740-6512
- TXNEX-AT&T - 740-6512
- ONEOK - 1-877-533-5685
- BUCKEYE GULF COAST PIPE LINES - 1-877-533-5685

**BEFORE YOU DIG**

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## 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
	EXISTING WATER POLE		EXISTING EDGE OF PAVEMENT
	EXISTING SIGN		EXISTING CURB 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 PEDISTAL		EXISTING FIBER OPTIC CABLE
	EXISTING MAN HOLE		PROPOSED WATER LINE
	EXISTING CONTROL POINTS		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

PROJECT NAME  
**VISTA DELESTE  
WATER DISTRIBUTION SYSTEM**

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

SHEET  
**13 OF 31**

ENGINEER'S SEAL: [Seal of El Paso County, Texas, License No. 102527, Date 10/25/21]

SCALE: [Blank]

DATE: [Blank]

DESIGN BY: [Blank]

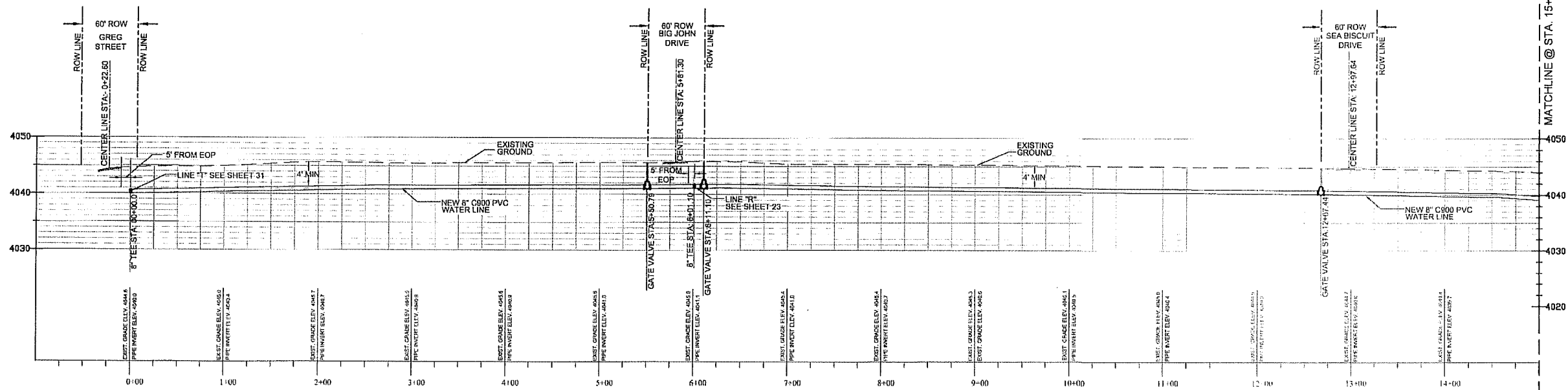
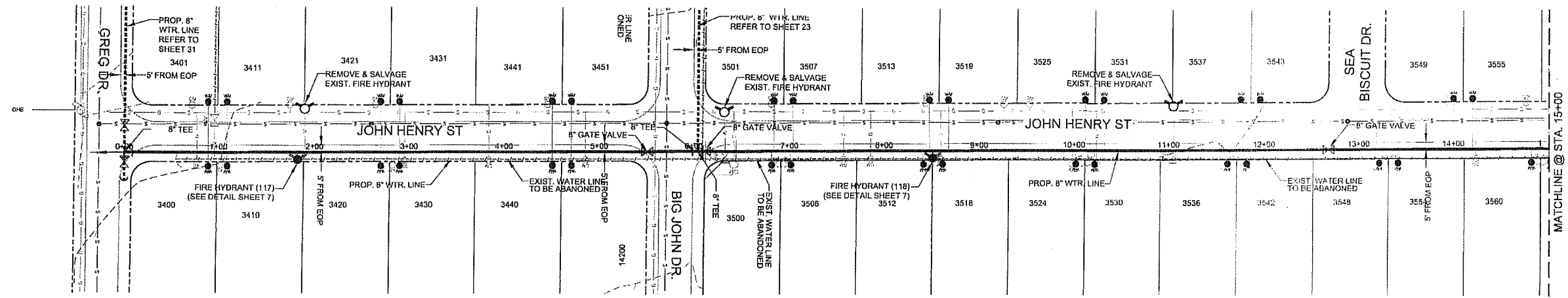
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APP'D BY: [Blank]

REFERENCES: [Blank]

BENCHMARKS: [Blank]

*For County of El Paso*



- DIG TESS**
- EL PASO ELECTRIC CO. 1-811
  - TEXAS GAS SERVICE 443-2047
  - AT&T 1-800-238-8343
  - TIME WARNER CABLE 772-1123
  - ONE CALL 811 OR 1-800-344-8377
  - E.P. COUNTY WATER 655-1881
  - E.P. NATURAL GAS 471-0124
  - DSL & P 1-888-951-1076
  - AT&T FIBER OPTICS 1-877-589-1058
  - DELL TELEPHONE 1-800-245-2291
  - CDSP INC. 740-6512
  - TXHWATT&D 1-877-530-5685
  - BUCKEYE GULF COAST PIPE LINES

**BEFORE YOU DIG**

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**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 ROW LINE		PROPOSED CROSS
	EXISTING LIGHT POLE		EXISTING CURB OF PAVEMENT		PROPOSED TEE
	EXISTING MANHOLE		EXISTING CABLE LINE		PROPOSED 90° BEND
	EXISTING WATER VALVE		CATV		PROPOSED CAP
	EXISTING WATER METER		EXISTING WATER LINE		PROPOSED VALVE
	EXISTING FIRE HYDRANT		GAS		PROPOSED FIRE HYDRANT
	EXISTING FIRE HYDRANT TO BE ABANDONED		EXISTING GAS LINE		PROPOSED WATER METER
	EXISTING FIRE HYDRANT TO BE ABANDONED		EXISTING FIRE HYDRANT CURB WALL		EXISTING TREE
	EXISTING FIRE HYDRANT TO BE ABANDONED		EXISTING OVERHEAD ELECTRIC		EXISTING GAS METER
	EXISTING TELEPHONE PEDISTAL		EXISTING FIBER OPTIC CABLE		
	EXISTING MANHOLE		PROPOSED WATER LINE		
	EXISTING SPOTLIGHTS		EXISTING LOT LINE		

ENGINEER'S SEAL: [Seal of El Paso County, Texas, dated 10/25/19]

SCALE: [Blank]

DATE: 09/21/19  
 DESIGN BY: [Blank]  
 DRAWN BY: [Blank]  
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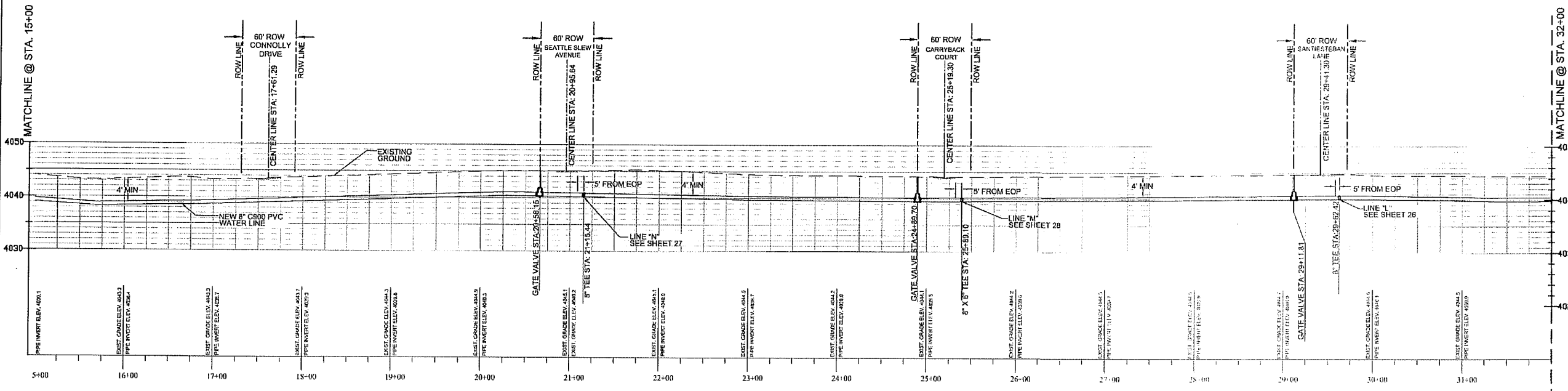
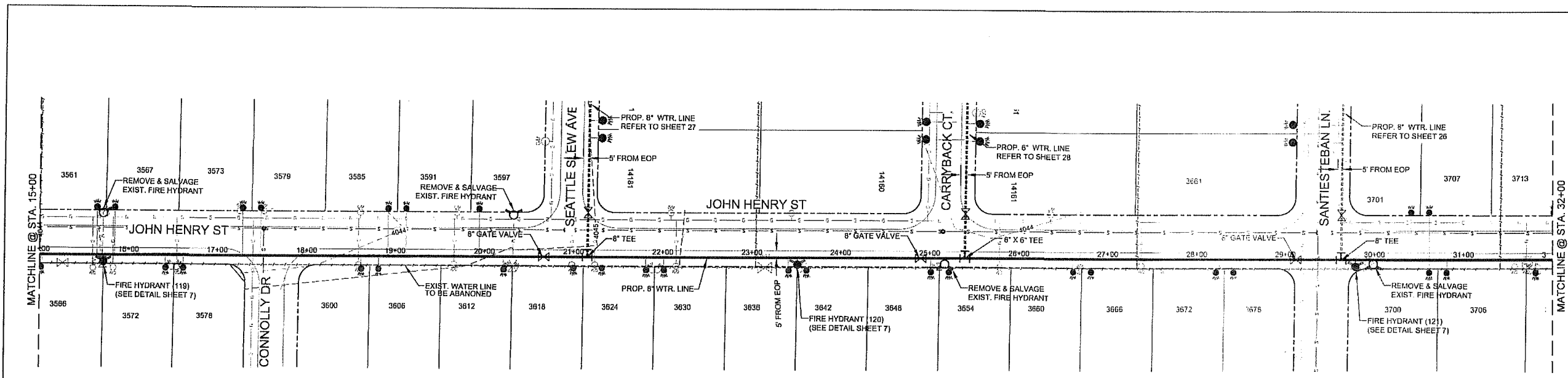
PROJECT NAME: VISTA DEL ESTE WATER DISTRIBUTION SYSTEM

COUNTY OF EL PASO PUBLIC WORKS DEPARTMENT

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

SHEET 14 OF 31

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**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    | - 544-8300              |
| AT&T                 | - 1-800-285-8343        |
| TIME WARNER CABLE    | - 772-1123              |
| ONE CALL             | - 811 OR 1-800-344-8377 |
| E.P. COUNTY WATER    | - 855-1081              |
| E.P. NATURAL GAS     | - 473-9324              |
| SM & P               | - 1-866-861-7678        |
| AT&T FIBER OPTICS    | - 1-817-589-1025        |
| DIAL TELEPHONE       | - 1-800-245-2991        |
| COOP INC.            | - 740-6512              |
| TRHW ATT'D           | - 740-6512              |
| ONEOK                | - 740-6512              |
| BUCKEYE GULF COAST   | - 1-877-532-5665        |
| PIPE LINES           | - 1-877-532-5665        |

**BEFORE YOU DIG**

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**LEGEND**

	EXISTING POWER POLE		STREET ROW LINE		PROPOSED CROSS
	EXISTING FIRE HYDRANT		EXISTING PIPE OR PAVEMENT		PROPOSED TEE
	EXISTING WATER VALVE		CATV		PROPOSED 90° BEND
	EXISTING WATER MAIN		EXISTING CABLE LINE		PROPOSED CAP
	EXISTING GAS LINE		EXISTING WATER LINE		PROPOSED VALVE
	EXISTING FENCE OR WALL		GAS		PROPOSED FIRE HYDRANT
	EXISTING OVERHEAD ELECTRIC		ONC		PROPOSED WATER METER
	EXISTING FIBER OPTIC CABLE		FD		EXISTING TREE
	EXISTING WATER LINE		PROPOSED WATER LINE		EXISTING GAS METER
	EXISTING LOT LINE				

ENGINEER: [Signature]

SCALE: [Blank]

DATE: 02/21/18

DESIGN BY: M.G.

DRAWN BY: [Blank]

CHKD. BY: [Blank]

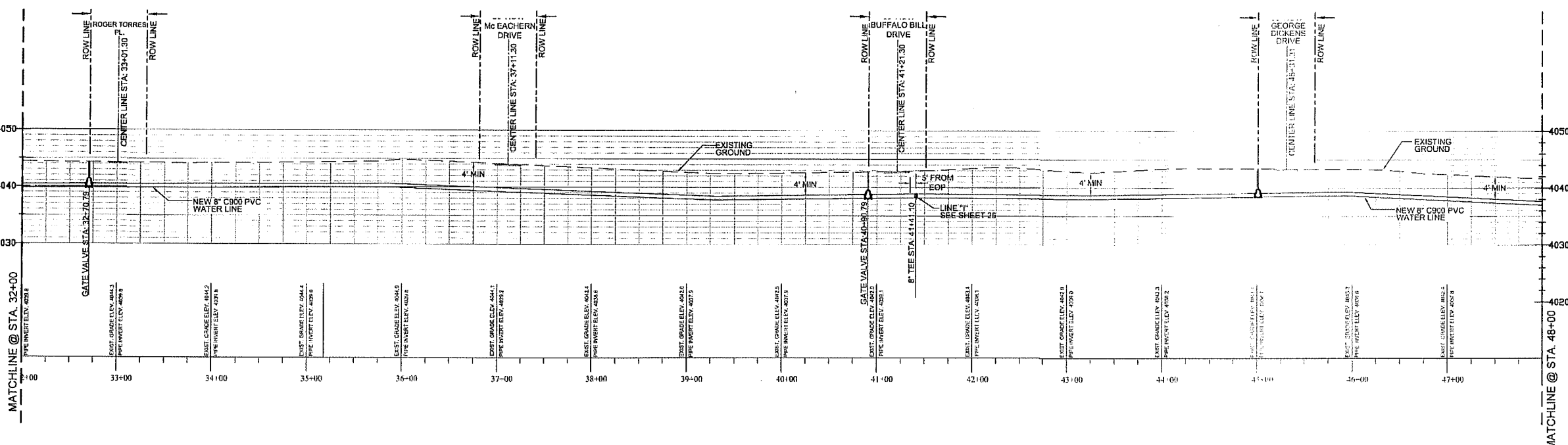
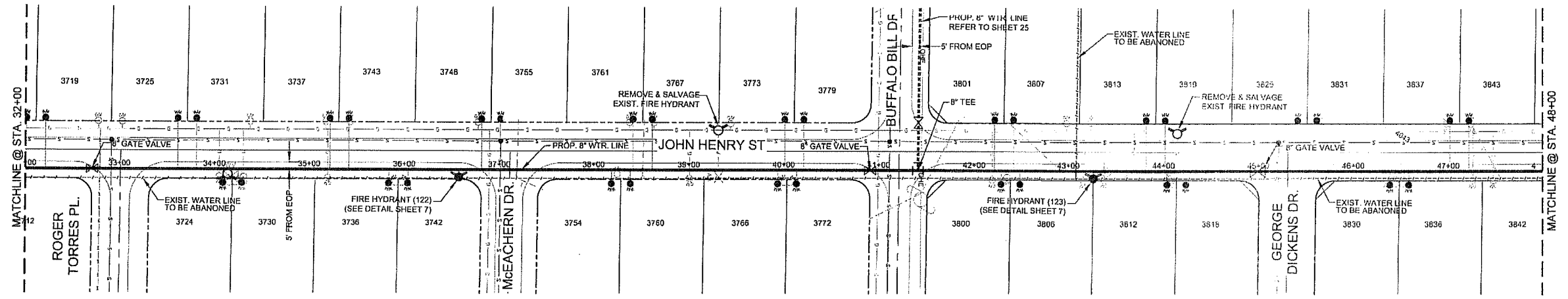
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PROJECT NAME: VISTA DEL ESTE WATER DISTRIBUTION SYSTEM

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 - 544-6300
- AT&T - 1-800-285-8343
- TIME WARNER CABLE - 772-1123
- ONE CALL - 811 OR 1-800-344-8377
- E.P. COUNTY WATER - 855-931
- NATURAL GAS - 471-9124
- SM & P - 1-888-861-7678
- AT&T FIBER OPTICS - 1-817-595-1066
- DELL TELEPHONE COOP INC. - 1-800-245-2991
- TRINITY ATT - 1-817-595-1066
- ONEOK - 740-8312
- BUCKEYE GULF COAST PIPE LINES - 1-877-520-5885

**BEFORE YOU DIG**

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LEGEND	
	EXISTING POWER POLE
	EXISTING SIGN
	EXISTING WATER VALVE
	EXISTING WATER METER
	EXISTING FIRE HYDRANT
	EXISTING WATER MAIN BOX
	EXISTING TELEPHONE PEDESTAL
	EXISTING MANHOLE
	EXISTING CONTROL POINTS
	STREET R.O.W. LINE
	EXISTING CURB 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

**COUNTY OF EL PASO**  
PUBLIC WORKS DEPARTMENT

**VISTA DEL ESTE**  
WATER DISTRIBUTION SYSTEM

**8" WATER LINE**  
JOHN HENRY STREET PLAN & PROFILE

SHEET 16 OF 31

ENGINEER: [Signature]

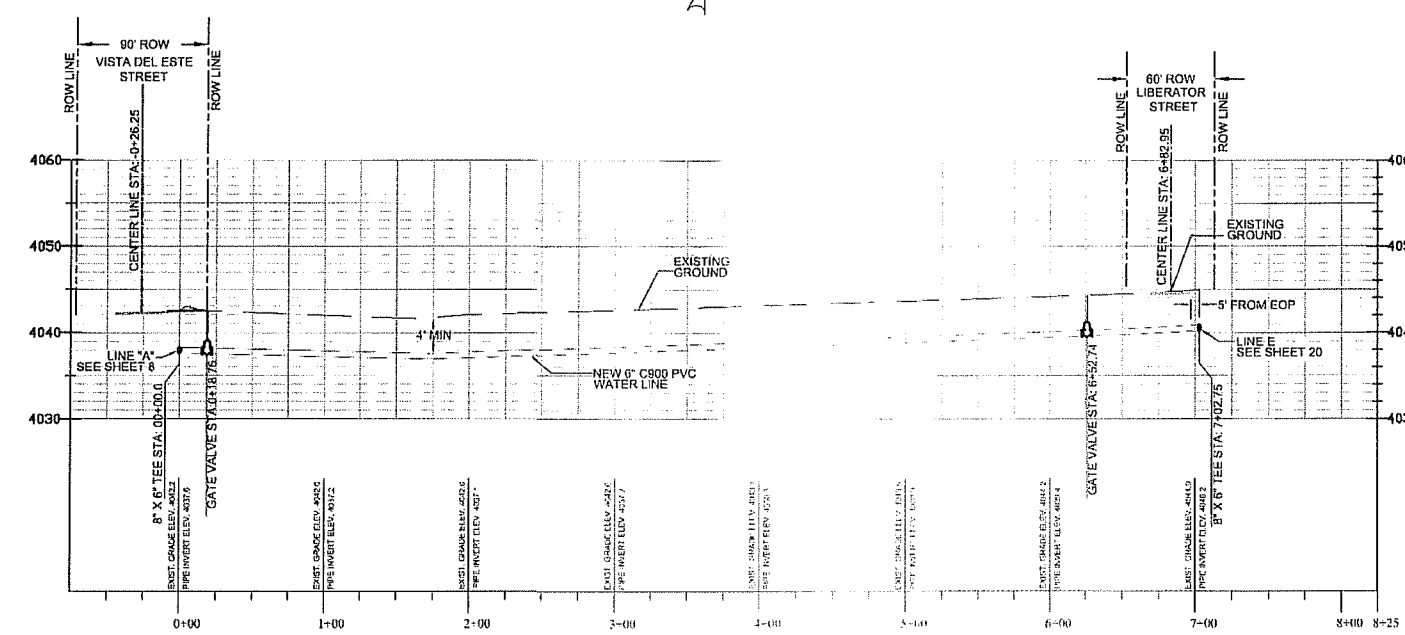
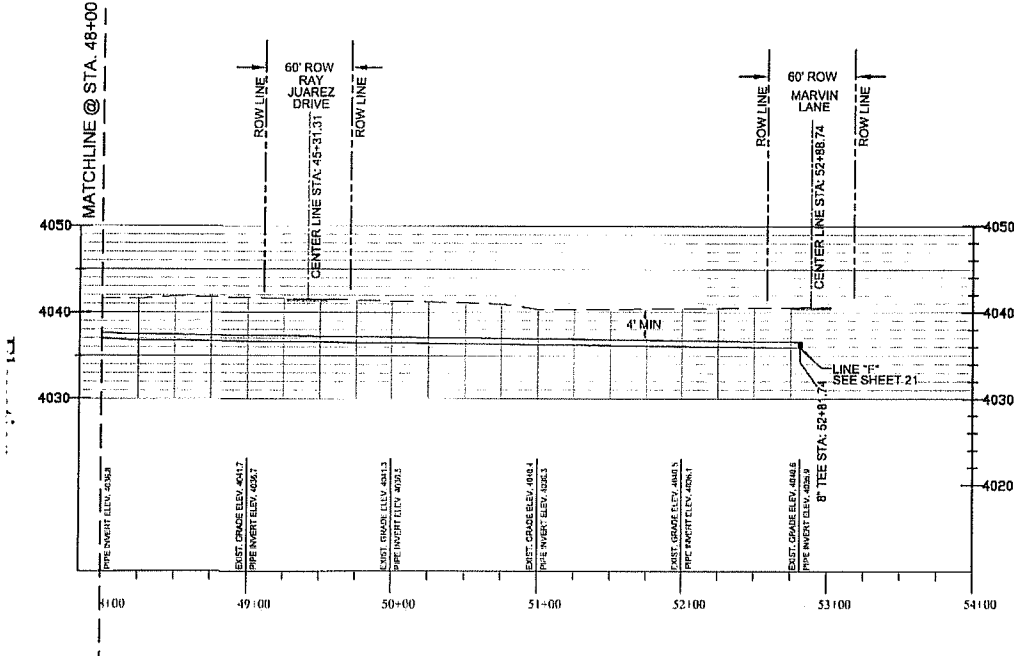
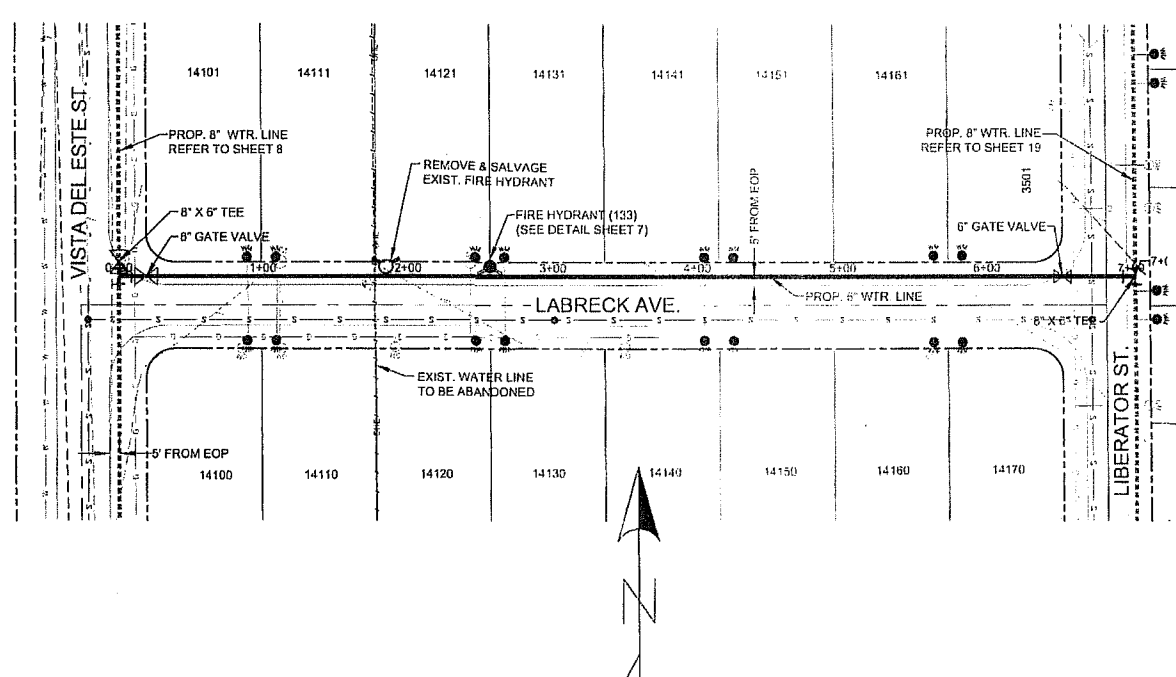
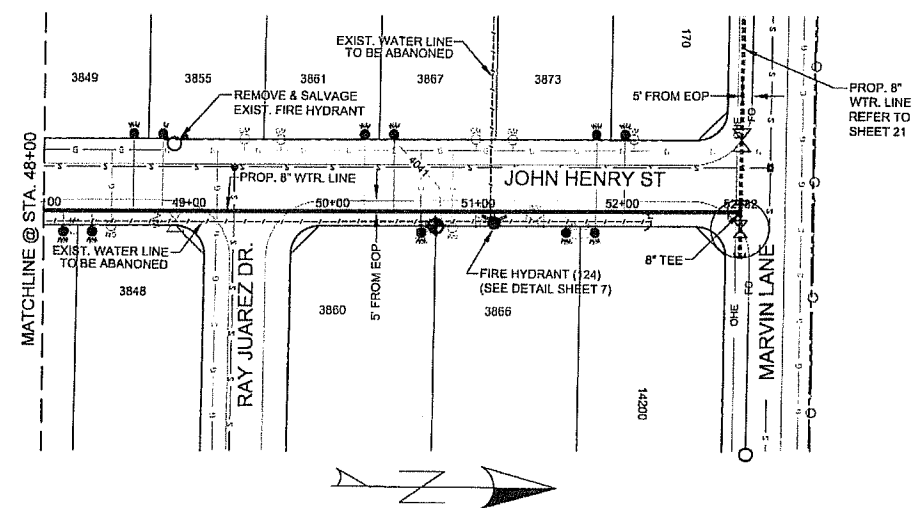
DATE: 10/25/21

SCALE: AS SHOWN

PROJECT NAME: VISTA DEL ESTE WATER DISTRIBUTION SYSTEM

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**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'

- BEFORE YOU DIG**
- DIG TESS - 1-611
  - EL PASO ELECTRIC CO. - 543-2047
  - TEXAS GAS SERVICE - 544-9320
  - AT&T - 1-800-285-8343
  - TIME WARNER CABLE - 772-1123
  - ONE CALL - 811 OR 1-800-344-8377
  - E.P. COUNTY WATER - 855-1691
  - E.P. NATURAL GAS - 471-0124
  - SM & P - 1-855-651-7678
  - AT&T FIBER OPTICS - 1-817-889-1056
  - COOP INC. - 1-800-245-2991
  - TXNW-ATTD - 740-5612
  - CHECK - 1-877-430-6585
  - BUCKEYE GULF COAST PIPE LINES

**BEFORE YOU DIG**

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**LEGEND**

⊙	EXISTING POWER POLE	---	STREET R.O.W. LINE	⊠	PROPOSED CROSS
⊙	EXISTING WATER VALVE	---	EXISTING EDGE OF PAVEMENT	⊠	PROPOSED TEE
⊙	EXISTING WATER METER	---	EXISTING WATER LINE	⊠	PROPOSED 90° BEND
⊙	EXISTING FIRE HYDRANT	---	EXISTING GAS LINE	⊠	PROPOSED CAP
⊙	EXISTING OVERHEAD ELECTRIC	---	EXISTING FENCE OR WALL	⊠	PROPOSED VALVE
⊙	EXISTING FIBER OPTIC CABLE	---	PROPOSED WATER LINE	⊠	PROPOSED FIRE HYDRANT
⊙	EXISTING GAS METER	---	EXISTING LOT LINE	⊠	PROPOSED WATER METER
⊙	EXISTING CONTROL POINTS	---		⊠	EXISTING TREE
⊙	EXISTING ADDRESS	---		⊠	EXISTING GAS METER

ENGINEERING SEAL  
 FERNANDO NEBRARDEZ, JR.  
 102527  
 PROFESSIONAL ENGINEER  
 CIVIL ENGINEERING

SCALE: \_\_\_\_\_  
 DATE: 05/21/18  
 DRAWN BY: J.C.  
 CHECKED BY: J.C.  
 APPROVED BY: J.C.

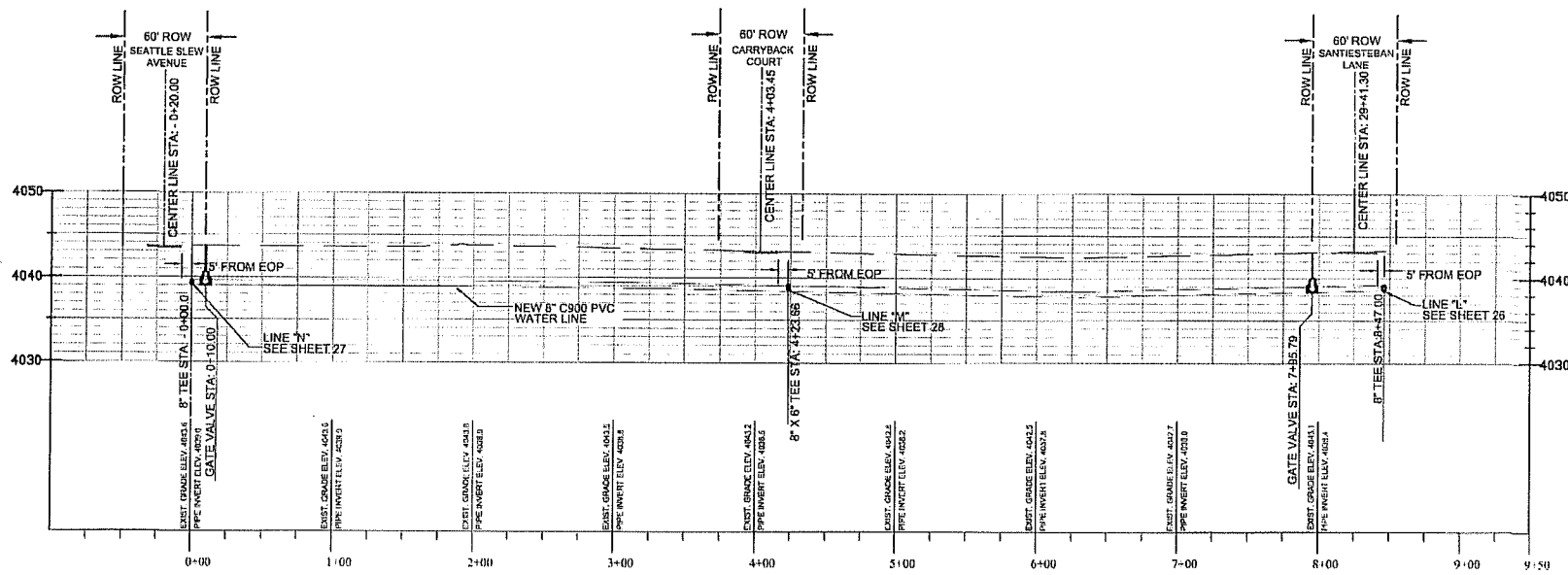
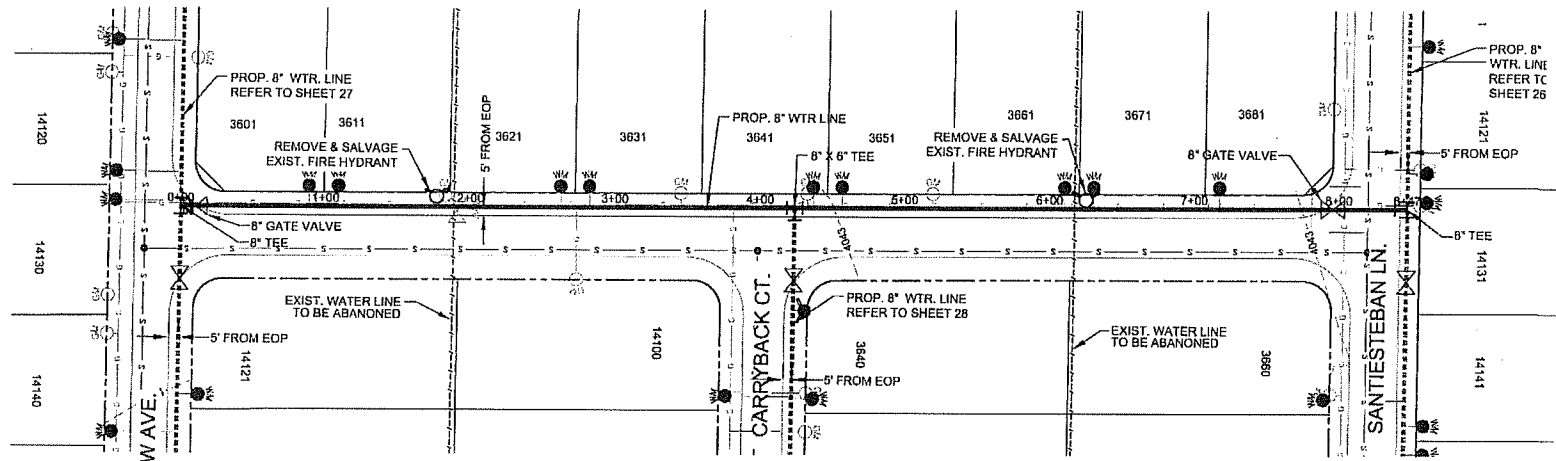
PROJECT NAME  
**VISTA DEL ESTE  
 WATER DISTRIBUTION SYSTEM**

COUNTY OF EL PASO  
 PUBLIC WORKS DEPARTMENT

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

SHEET  
 17 OF 31

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### 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	544-6320
AT&T	1-800-298-8343
TIME WARNER CABLE	772-1123
ONE CALL	811 OR 1-800-344-8377
E.P. COUNTY WATER	855-1661
E.P. NATURAL GAS	471-0124
SM & P	1-800-861-7078
AT&T FIBER OPTICS	1-817-589-1056
DELL TELEPHONE	1-800-245-2991
COOP INC.	740-6912
TXWV/ATT/D	740-6912
ONEOK	1-877-530-5686
BUCKEYE GULF COAST PIPE LINES	1-877-530-5686

#### BEFORE YOU DIG

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

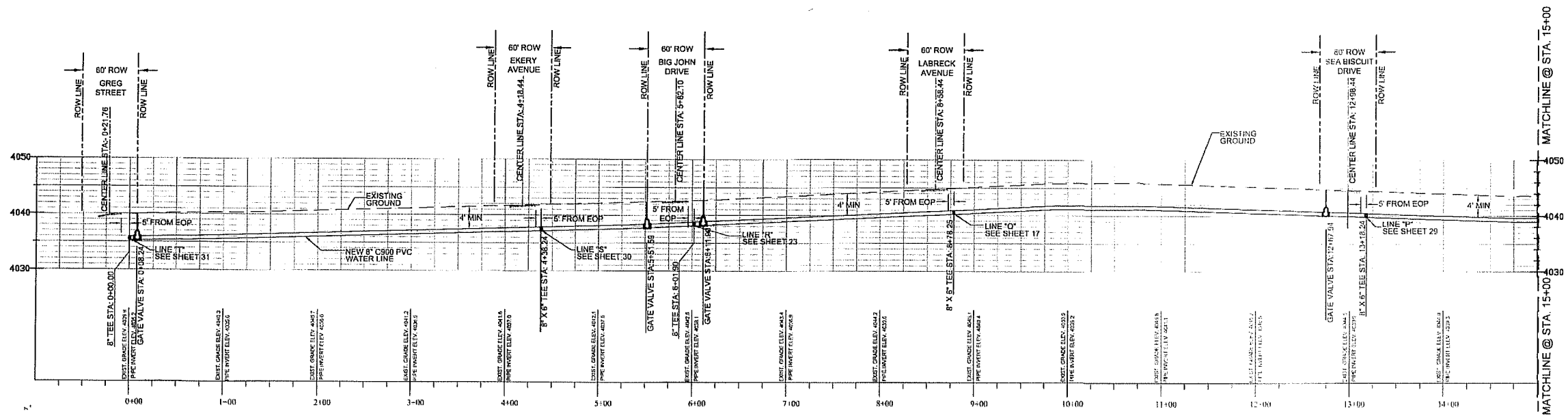
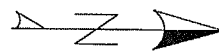
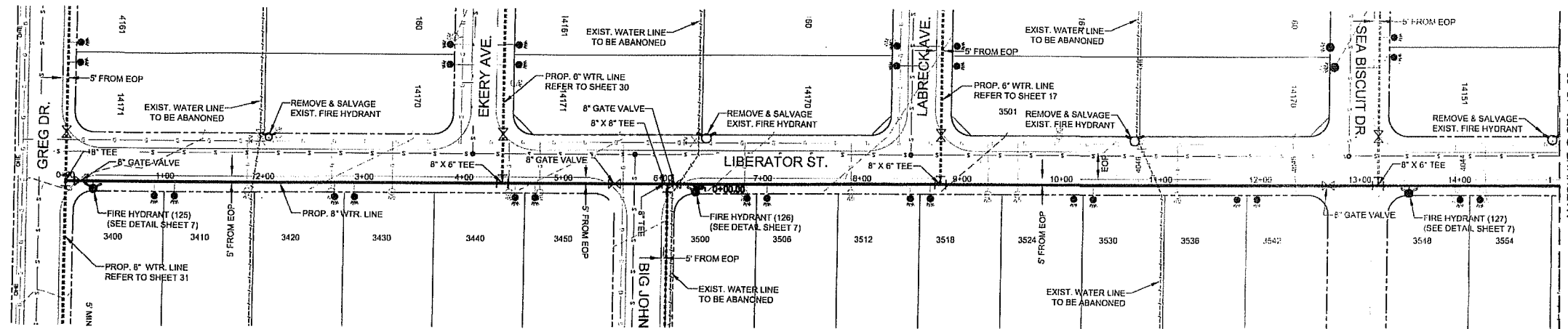
CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD LOCATING, POT HOLING AND/OR EXPOSING LINES TO VERIFY POSSIBLE CONFLICTS PRIOR TO ANY EXCAVATING ACTIVITY.

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

LEGEND			
(Symbol)	EXISTING POWER POLE	(Symbol)	PROPOSED CROSS
(Symbol)	EXISTING LIGHT POLE	(Symbol)	PROPOSED TREE
(Symbol)	EXISTING SIGN	(Symbol)	PROPOSED 90° BEND
(Symbol)	EXISTING WATER VALVE	(Symbol)	PROPOSED CAP
(Symbol)	EXISTING WATER METER	(Symbol)	PROPOSED VALVE
(Symbol)	EXISTING FIRE HYDRANT	(Symbol)	PROPOSED FIRE HYDRANT
(Symbol)	EXISTING WASTE WATER MANHOLE	(Symbol)	PROPOSED WATER METER
(Symbol)	EXISTING TELEPHONE REEF/STAKE	(Symbol)	EXISTING TREE
(Symbol)	EXISTING MAILBOX	(Symbol)	EXISTING GAS METER
(Symbol)	EXISTING CONTROL POINTS	(Symbol)	EXISTING LOT LINE
(Symbol)	XXXX STREET ADDRESS	(Symbol)	EXISTING ROW LINE
(Symbol)	EXISTING HOSE OFF PAVEMENT	(Symbol)	EXISTING EDGE OF PAVEMENT
(Symbol)	EXISTING CABLE LINE	(Symbol)	EXISTING GAS LINE
(Symbol)	EXISTING WATER LINE	(Symbol)	EXISTING OVER-HEAD ELECTRIC
(Symbol)	EXISTING FENCE OR WALL	(Symbol)	EXISTING FIBER OPTIC CABLE
(Symbol)	PROPOSED WATER LINE	(Symbol)	PROPOSED WATER LINE
(Symbol)	PROPOSED WATER LINE	(Symbol)	EXISTING LOT LINE

<p>COUNTY OF EL PASO PUBLIC WORKS DEPARTMENT</p> <p>PROJECT NAME <b>VISTA DEL ESTE WATER DISTRIBUTION SYSTEM</b></p> <p>SHEET TITLE <b>8" WATER LINE BRAYMAN PL PLAN &amp; PROFILE</b></p> <p>SHEET <b>18 OF 31</b></p>	<p>SCALE: _____</p> <p>DATE: _____</p> <p>DESIGN BY: _____</p> <p>DRAWN BY: _____</p> <p>CHECKED BY: _____</p> <p>APPROVED BY: _____</p> <p>ENGINEER'S SEAL  </p> <p>REFERENCES: --- BENCHMARKS</p> <p>BENCHMARKS:</p> <table border="1"> <tr><th>BY</th><th>DATE</th><th>REVISIONS</th></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> </table>	BY	DATE	REVISIONS						
BY	DATE	REVISIONS								

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- DIG TIPS**
- EL PASO ELECTRIC CO. 543-2047
  - TEXAS GAS SERVICE 544-8390
  - AT&T 1-800-285-6343
  - TIME WARNER CABLE 772-1123
  - ONE CALL 811 OR 1-800-344-8377
  - E.P. COUNTY WATER 856-1861
  - E.P. NATURAL GAS 471-0124
  - DM & P 1-888-961-7878
  - AT&T FIBER OPTICS 1-817-888-1066
  - DELL TELEPHONE COOP INC. 1-800-245-2991
  - TNNY-AT&T 740-5512
  - ONEOK 1-877-630-5685
  - BUCKEYE GULF COAST PIPE LINES

**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 HOLEING 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 "E"**

LIBERATOR STREET  
FROM GREG STREET TO SEA BISCUIT AVENUE

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

**LEGEND**

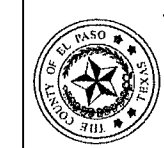
⊕ EXISTING POWER POLE	--- STREET ROW LINE	⊕ PROPOSED CROSS
⊙ EXISTING LIGHT POLE	--- EXISTING SUGAR OR MAINTAIN	⊕ PROPOSED TEE
--- EXISTING SIGN	--- EXISTING CABLE LINE	⊕ PROPOSED 60' BEND
⊕ EXISTING WATER VALVE	--- EXISTING WATER LINE	⊕ PROPOSED CAP
⊕ EXISTING WATER METER	--- EXISTING GAS LINE	⊕ PROPOSED VALVE
⊕ EXISTING FIRE HYDRANT	--- EXISTING FENCE OR WALL	⊕ PROPOSED FIRE HYDRANT
⊕ EXISTING WASTE WATER METER	--- EXISTING OVERHEAD ELECTRIC	⊕ PROPOSED WATER METER
⊕ EXISTING TELEPHONE/CELESTAL	--- EXISTING FIBER OPTIC CABLE	⊕ EXISTING FENCE
⊕ EXISTING MAIL BOX	--- PROPOSED WATER LINE	⊕ EXISTING GAS METER
⊕ EXISTING CORNER POINTS	--- EXISTING LOT LINE	
XXXX STREET ADDRESS		

ENGINEER'S SEAL  
 PROFESSIONAL SEAL  
 FERNANDO HERNANDEZ, JR.  
 102527  
 10/2019  
 10/2019

SCALE: 1"=60'  
 DATE: 10/2019  
 DRAWN BY: JAC  
 CHD. BY: JAC  
 APPR. BY: JAC

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

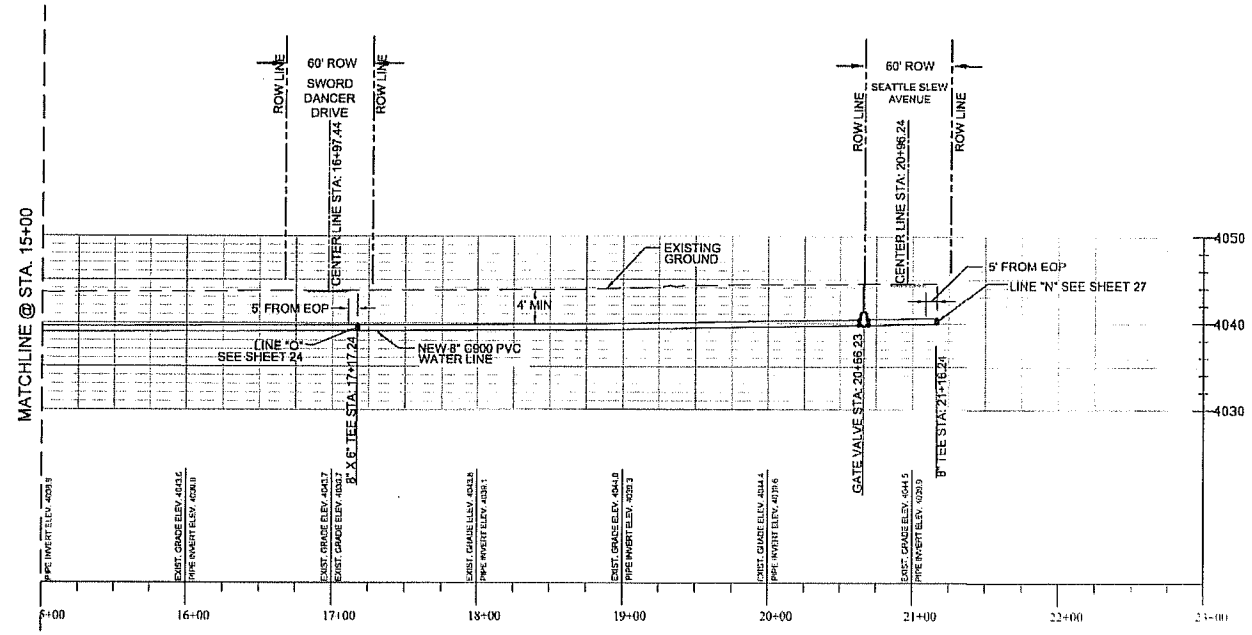
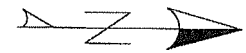
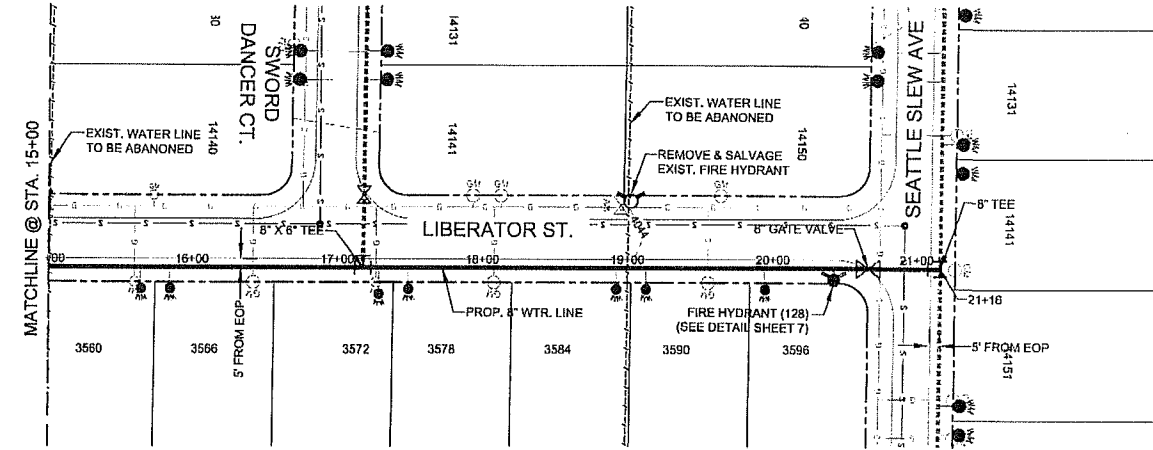
COUNTY OF EL PASO  
 PUBLIC WORKS DEPARTMENT



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

SHEET  
 19 of 31

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

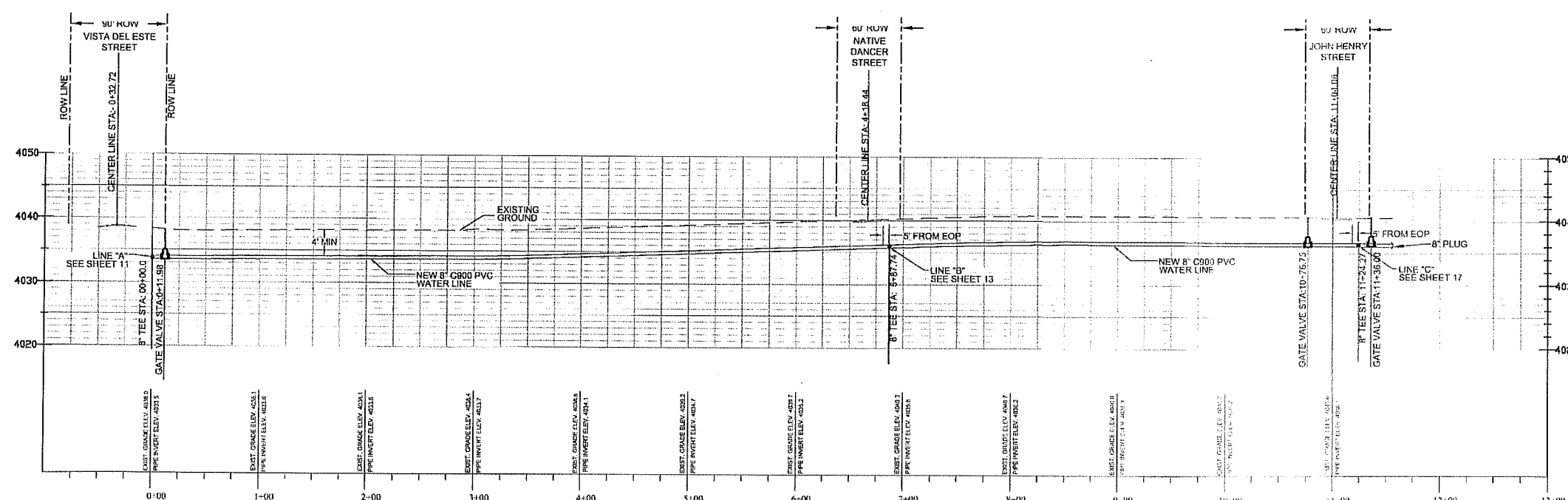
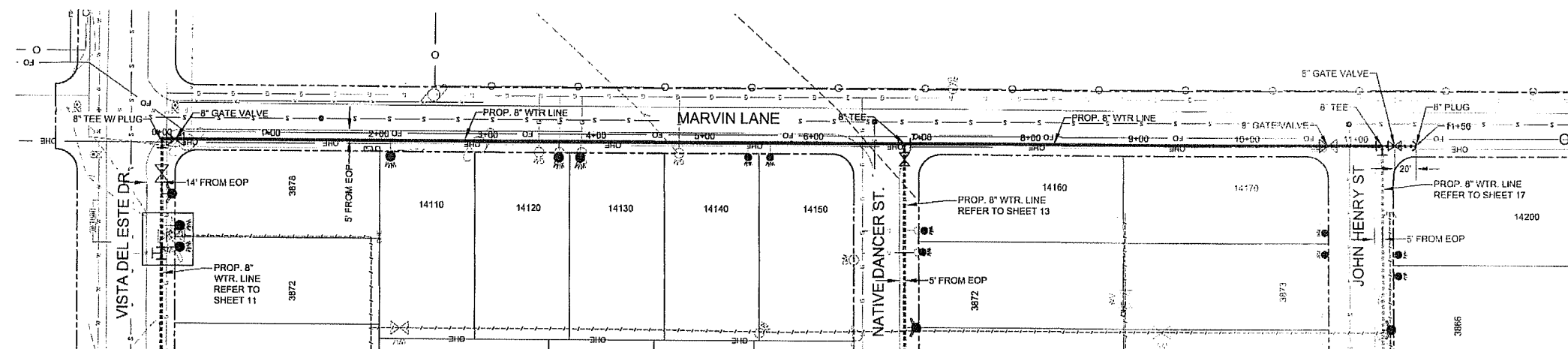
- |                               |                       |
|-------------------------------|-----------------------|
| DIG TESS                      | 1-811                 |
| EL PASO ELECTRIC CO.          | 543-2047              |
| TEXAS GAS SERVICE             | 544-6300              |
| AT&T                          | 1-800-288-8343        |
| TIME WARNER CABLE             | 772-1123              |
| ONE CALL                      | 811 OR 1-800-344-8377 |
| E.P. COUNTY WATER             | 855-1881              |
| E.P. NATURAL GAS              | 471-0124              |
| SM & P                        | 1-800-881-7070        |
| AT&T FIBER OPTICS             | 1-817-598-1056        |
| DELL TELEPHONE COOP. INC.     | 1-800-245-2291        |
| TXNVA-AT&T                    |                       |
| ONEOK                         | 742-8512              |
| 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 HOLEING 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		STRIP ROW LINE
	EXISTING LIGHT POLE		EXISTING EDGE OF PAVEMENT
	EXISTING CABLE LINE		EXISTING CABLE LINE
	EXISTING FIRE HYDRANT		EXISTING GAS LINE
	EXISTING FIRE HYDRANT		EXISTING FENCE OR WALL
	EXISTING WATER METER		EXISTING OVERHEAD ELECTRIC
	EXISTING WATER METER		EXISTING FIBER OPTIC CABLE
	EXISTING WATER METER		PROPOSED WATER LINE
	EXISTING WATER METER		EXISTING LOT LINE
	EXISTING WATER METER		PROPOSED CROSS
	EXISTING WATER METER		PROPOSED TEE
	EXISTING WATER METER		PROPOSED 90° BEND
	EXISTING WATER METER		PROPOSED CAP
	EXISTING WATER METER		PROPOSED VALVE
	EXISTING WATER METER		PROPOSED FIRE HYDRANT
	EXISTING WATER METER		PROPOSED WATER METER
	EXISTING WATER METER		EXISTING TREE
	EXISTING WATER METER		EXISTING GAS METER
	EXISTING WATER METER		EXISTING CONTROL POINTS
	EXISTING WATER METER		XXXX - STREET ADDRESS

<p>ENGINEER'S SEAL</p>	<p>REFERENCES --- BENCHMARKS</p>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th>DATE</th> <th>BY</th> <th>REVISIONS</th> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> </table>	DATE	BY	REVISIONS			
DATE	BY	REVISIONS						
<p>SCALE:</p> <p>HOR. 1"=60'</p> <p>VER. 1"=10'</p>	<p>DATE: 02/21/18</p> <p>DESIGN BY: F.A.</p> <p>DRAWN BY: M.C.</p> <p>CHECKED BY: F.H.</p> <p>APPROVED BY: F.H.</p>							
<p>PROJECT NAME</p> <p><b>VISTA DEL ESTE</b></p> <p><b>WATER DISTRIBUTION SYSTEM</b></p>								
<p><b>COUNTY OF EL PASO</b></p> <p><b>PUBLIC WORKS DEPARTMENT</b></p>								
<p>SHEET TITLE</p> <p><b>8" WATER LINE</b></p> <p><b>LIBERATOR ST.</b></p> <p><b>PLAN &amp; PROFILE</b></p>								
<p>SHEET</p> <p><b>20 OF 31</b></p>								



- DIG TESS - 1-811
- EL PASO ELECTRIC CO. - 543-2047
- TEXAS GAS SERVICE - 544-8300
- AT&T - 1-800-285-8343
- TIME WARNER CABLE - 772-1123
- ONE CALL - 811 OR 1-800-344-8377
- E.P. COUNTY WATER - 835-1881
- E.P. NATURAL GAS - 471-0124
- SM & P - 1-856-861-7678
- ATA FIBER OPTICS - 1-817-889-1050
- DELL TELEPHONE COOP INC. - 1-800-245-2391
- TANWATT - 740-0512
- ONEOK - 740-0512
- 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 RIGHT OF WAY	(---) EXISTING EDGE OF PAVEMENT	(---) PROPOSED TEE
(---) EXISTING SIGN	(---) CATV EXISTING CABLE LINE	(---) PROPOSED 90° BEND
(---) EXISTING WATER VALVE	(---) W EXISTING WATER LINE	(---) PROPOSED CAP
(---) EXISTING WATER METER	(---) GAS EXISTING GAS LINE	(---) PROPOSED VALVE
(---) EXISTING FIBER OPTIC	(---) EXISTING FENCE OR WALL	(---) PROPOSED FIRE HYDRANT
(---) EXISTING WASTE WATER MANHOLE	(---) OHE EXISTING OVERHEAD ELECTRIC	(---) PROPOSED WATER METER
(---) EXISTING FURNACE PLUMBING	(---) FO EXISTING FIBER OPTIC CABLE	(---) EXISTING TREE
(---) EXISTING MANHOLE	(---) PROPOSED WATER LINE	(---) EXISTING GAS METER
(---) EXISTING CONTROL POINTS	(---) EXISTING LOT LINE	

XXXX STREET ADDRESS

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

SCALE: 1"=60'

DATE: 05/21/09  
 DESIGNED BY: M.C.  
 DRAWN BY: M.C.  
 CHECKED BY: F.H.  
 APPROVED BY: F.H.

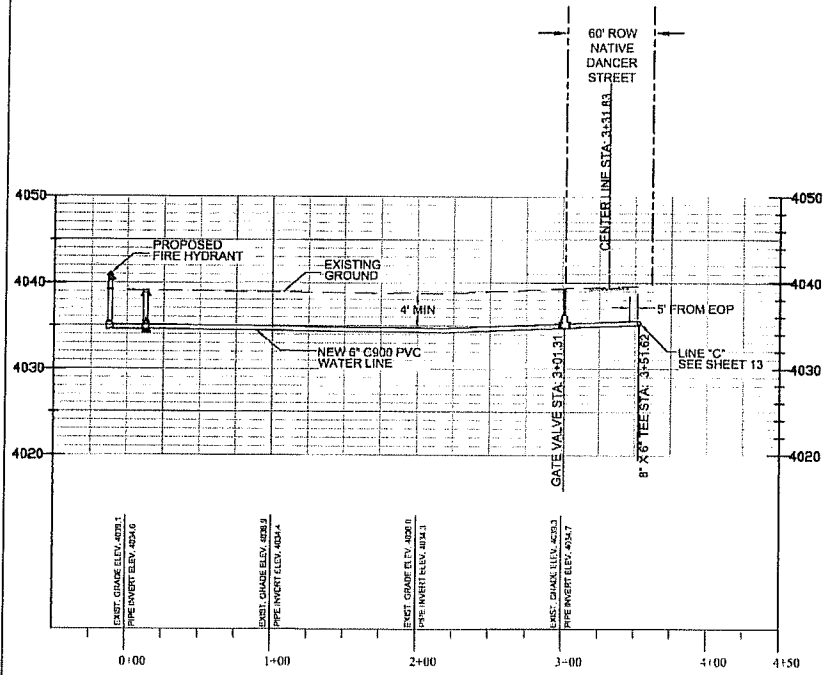
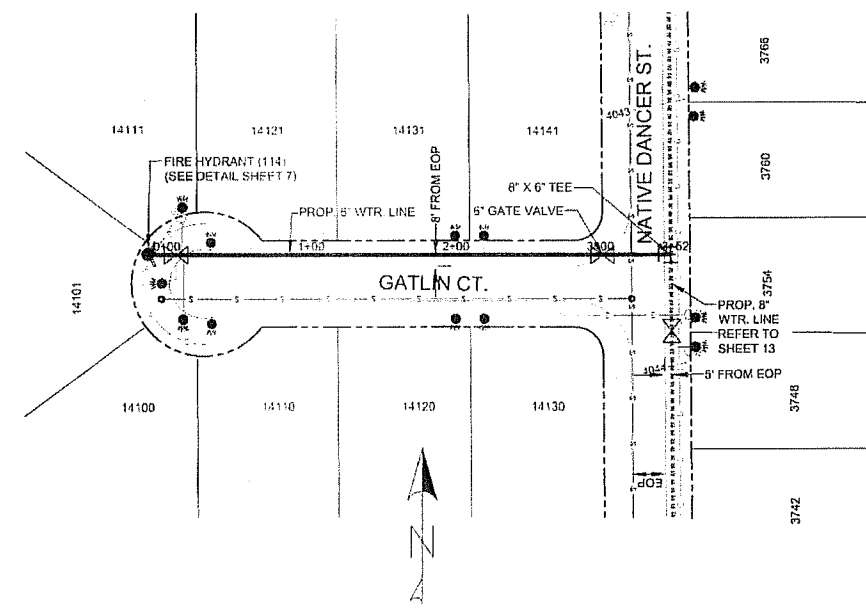
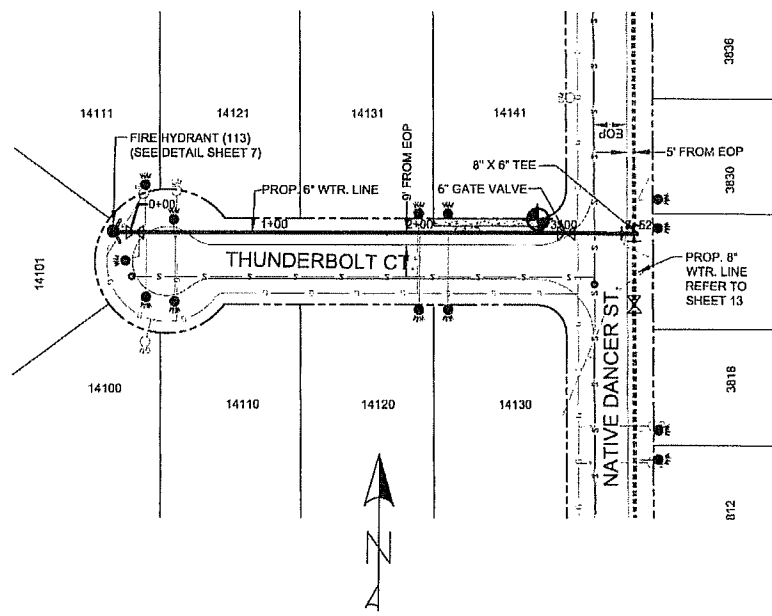
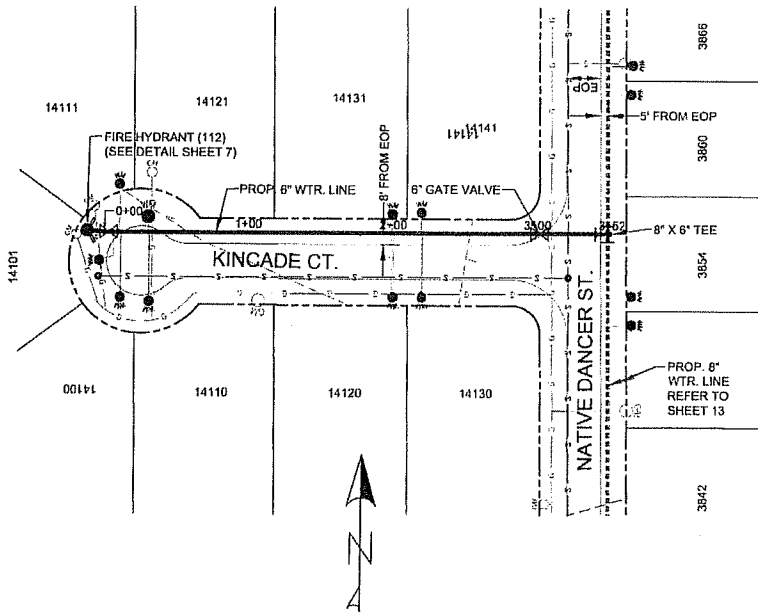
PROJECT NAME: VISTA DEL ESTE WATER DISTRIBUTION SYSTEM

COUNTY OF EL PASO PUBLIC WORKS DEPARTMENT

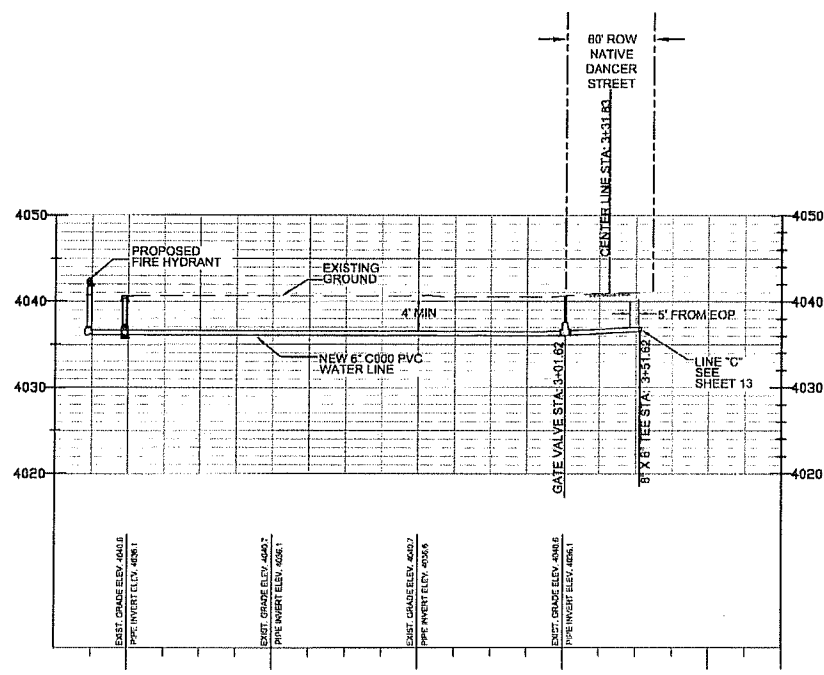
SHEET TITLE: 8" WATER LINE MARVIN LANE PLAN & PROFILE

SHEET 21 OF 31

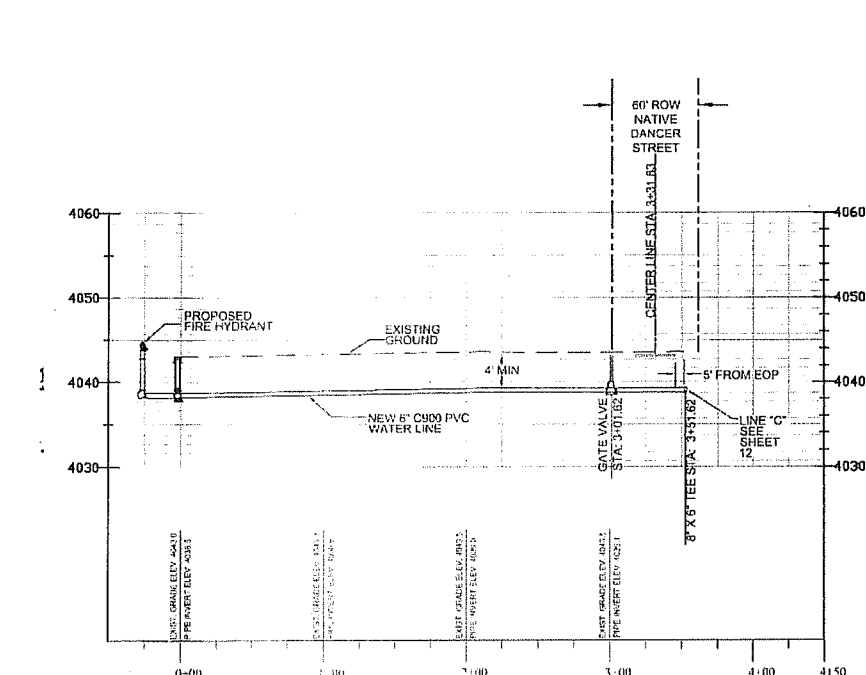
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**WATER LINE "G"**  
 KINGCADE CT.  
 HORIZONTAL SCALE: 1"=60'  
 VERTICAL SCALE: 1"=10'



**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 TIPS**
- EL PASO ELECTRIC CO. - 543-2047
  - TEXAS GAS SERVICE - 544-8300
  - AT&T - 1-800-269-8343
  - TIME WARNER CABLE - 722-1123
  - ONE CALL - 611 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 - 1-817-559-1055
  - DELL TELEPHONE COOP INC. - 1-800-348-2991
  - TXHWATT/D - 740-6512
  - BUCKEYE OIL COAST PIPE LINES - 1-877-530-5885

**BEFORE YOU DIG**

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

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**LEGEND**

	EXISTING WATER PIPE		STREET R.O.W. LINE		PROPOSED CROSS
	EXISTING LIGHT POLE		EXISTING EDGE OF PAVEMENT		PROPOSED TEE
	EXISTING MANHOLE		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 WATER HYDRANT		EXISTING CURB AND SIDEWALK		PROPOSED WATER METER
	EXISTING FIRE HYDRANT		EXISTING FIBER OPTIC CABLE		EXISTING TREE
	EXISTING MANHOLE		PROPOSED WATER LINE		EXISTING GAS METER
	EXISTING CONTROL POINTS		EXISTING LOT LINE		
	STREET ADDRESS				

ENGINEER'S SEAL:

SCALE: \_\_\_\_\_

NO. \_\_\_\_\_

DATE: 05/27/18

DESIGN BY: F.H.

DRAWN BY: M.C.

CHECKED BY: F.H.

APP. BY: F.H.

PROJECT NAME: VISTA DEL ESTE WATER DISTRIBUTION SYSTEM

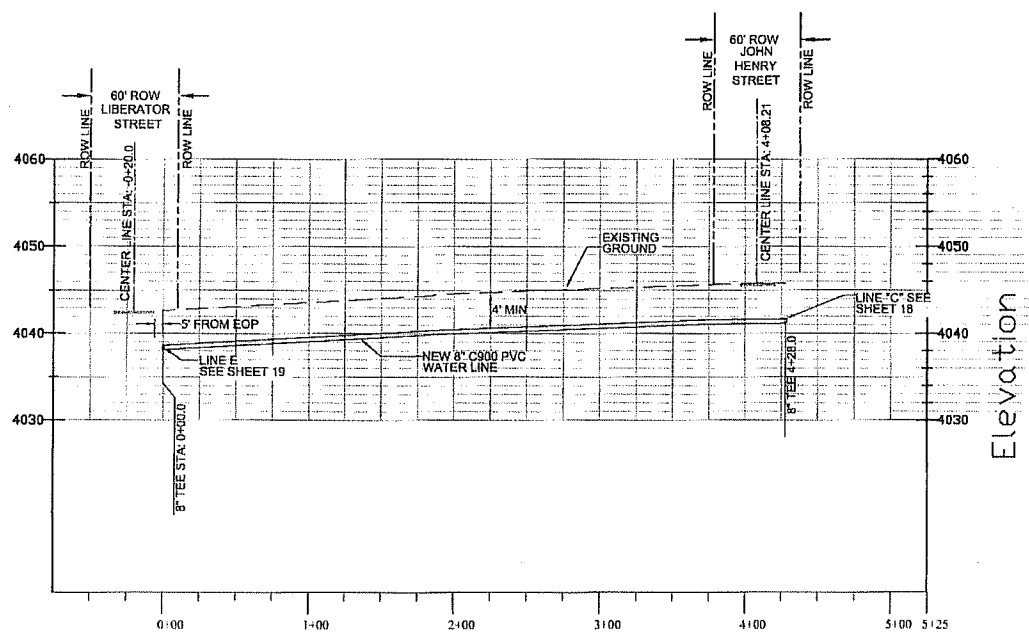
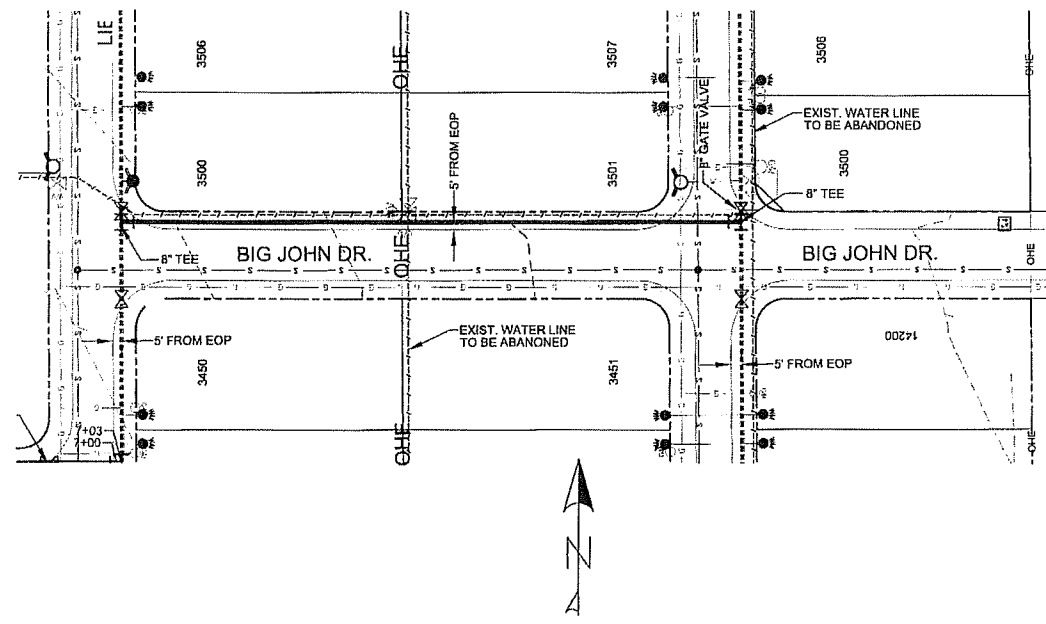
COUNTY OF EL PASO PUBLIC WORKS DEPARTMENT

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

SHEET: 22 OF 31

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

- |                               |                       |
|-------------------------------|-----------------------|
| DIG TESS                      | 1-811                 |
| EL PASO ELECTRIC CO.          | 563-2647              |
| TEXAS GAS SERVICE             | 644-6300              |
| AT&T                          | 1-800-285-8343        |
| TIME WARNER CABLE             | 772-1133              |
| ONE CALL                      | 811 OR 1-800-344-8377 |
| E.P. COUNTY WATER             | 855-1681              |
| E.P. NATURAL GAS              | 471-0184              |
| SM&P                          | 1-888-581-7678        |
| AT&T FIBER OPTICS             | 1-817-889-1058        |
| DELL TELEPHONE COOP. INC.     | 1-800-246-2291        |
| ONEOK                         | 740-8512              |
| 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.

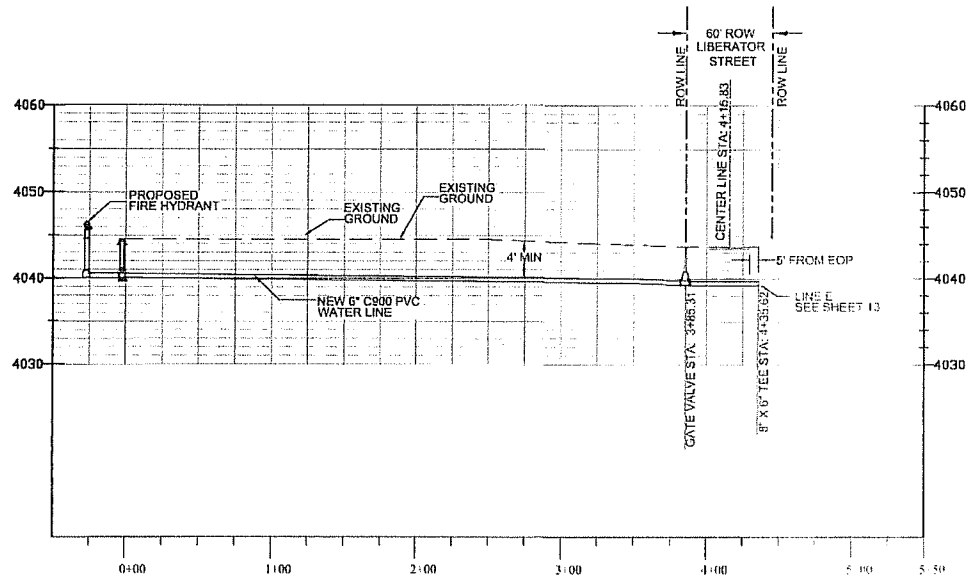
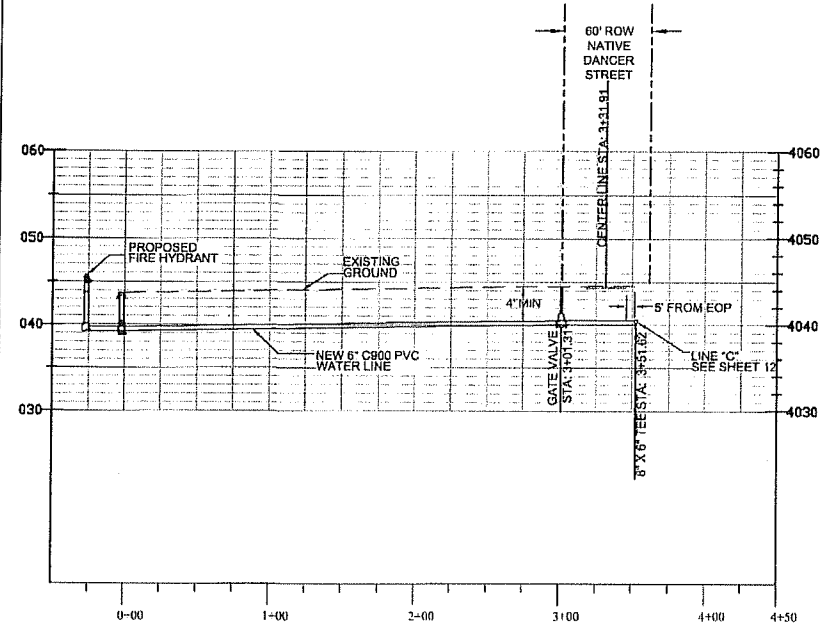
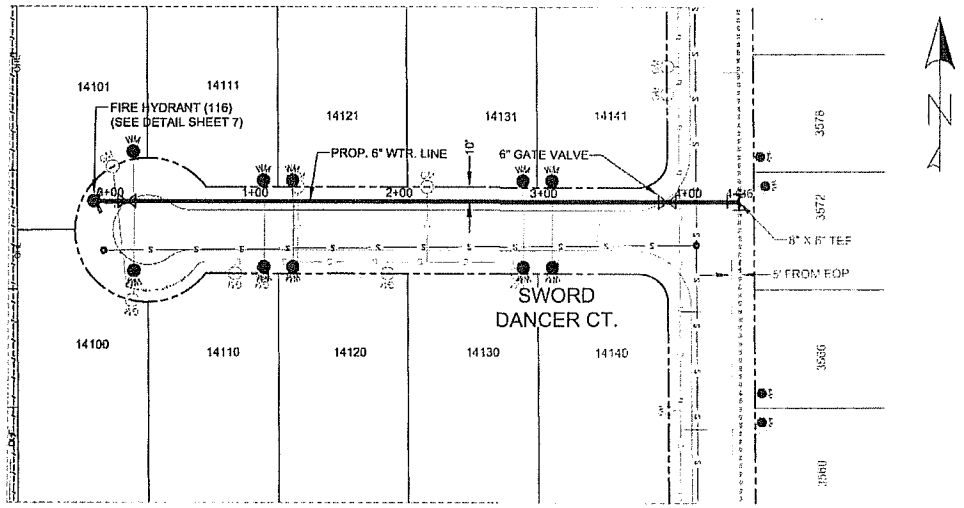
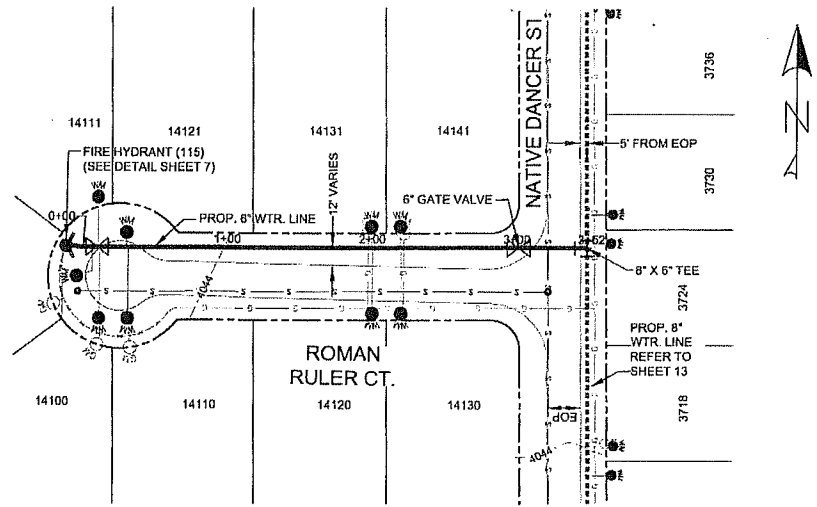
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CONTRACTOR SHALL NOTIFY ENGINEER OF ANY POSSIBLE CONFLICT 2 WEEKS PRIOR TO TRENCHING IN THAT AREA.

LEGEND		
	SHEET ROW LINE	
	EXISTING EDGE OF PAVEMENT	
	CATV	
	EXISTING CARPET LINE	
	W	
	GAS	
	O	
	OHE	
	FD	
	PROPOSED WATER LINE	
XXXX STREET ADDRESS	EXISTING LOT LINE	

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	DATE
SCALE: 1"=60'	DATE
HOR. VER.	DESIGN BY
DATE 05/21/18	DRAWN BY
102527	CHKD. BY
F.H.	APPD. BY
F.H.	F.H.
ENGINEER'S SEAL	BENCHMARKS
REFERENCES	BY
BENCHMARKS	REVISING





**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'

DIG TESS	1-811
EL PASO ELECTRIC CO.	543-2047
TEXAS GAS SERVICE	544-0302
AT&T	1-800-285-0343
TIME WARNER CABLE	772-1123
ONE CALL	811 OR 1-800-344-4377
E.P. COUNTY WATER	855-1681
E.P. NATURAL GAS	474-0124
SW & P	1-855-821-7678
AT&T FIBER OPTICS	1-817-589-1056
DELL TELEPHONE	
COOP INC.	1-800-245-2991
TX&W ATT'D	
ONEOK	740-8512
BUCKEYE GULF COAST	1-877-530-5885
PIPE LINES	

**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 HOLDING 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 FIRE HYDRANT HOLE		STREET RED 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 FULL PHONE PEDIESTAL		EXISTING FIBER OPTIC CABLE		EXISTING TREE
	EXISTING MANHOLE		PROPOSED WATER LINE		EXISTING GAS METER
	EXISTING CONTROL POINTS		EXISTING LOT LINE		
	STREET WORK				

ENGINEER'S SEAL:

SCALE: \_\_\_\_\_

DATE: 06/21/18  
 DESIGNED BY: F.A.L.  
 DRAWN BY: M.C.  
 CHECKED BY: E.A.L.  
 APPROVED BY: \_\_\_\_\_

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

COUNTY OF EL PASO  
 PUBLIC WORKS DEPARTMENT

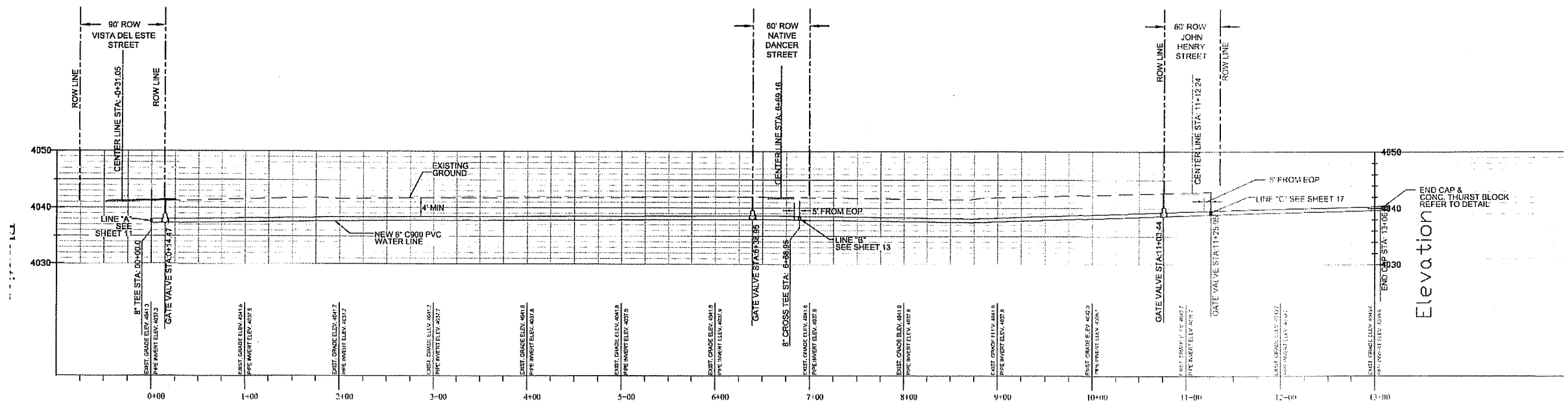
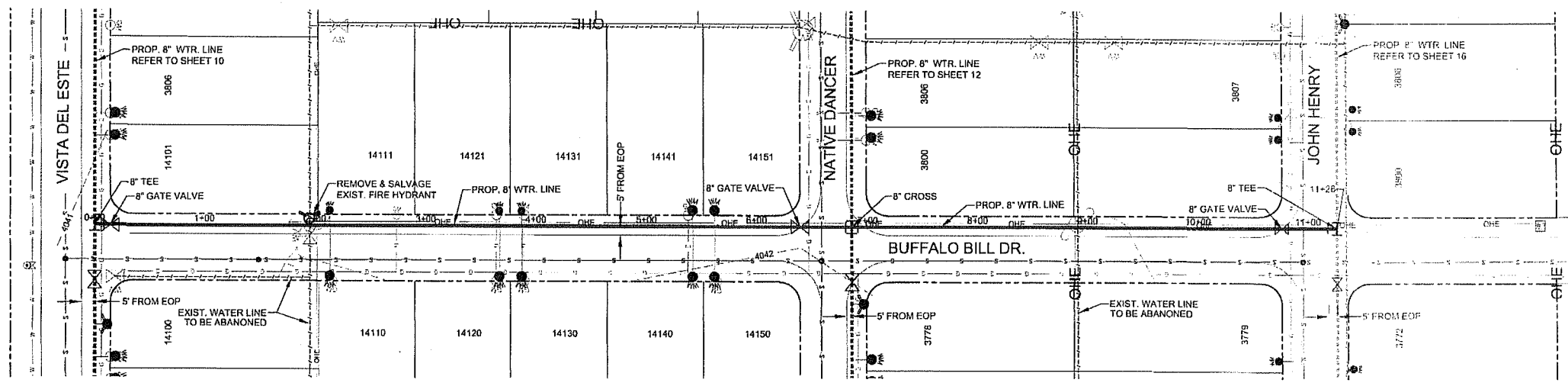
SHEET TITLE: **6" WATER LINE ROMAN RULER CT. SWORD DANCER CT. PLAN & PROFILE**

SHEET: **24 OF 31**

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- DIG TESS** - 1-811  
**EL PASO ELECTRIC CO.** - 543-2047  
**TEXAS GAS SERVICE** - 844-8300  
**AT&T** - 1-800-299-8343  
**TIME WARNER CABLE** - 772-1123  
**ONE CALL** - 811 OR 1-800-344-4377  
**E.P. COUNTY WATER** - 855-1681  
**E.P. NATURAL GAS** - 471-0124  
**SA & S** - 1-806-891-7678  
**AT&T FIBER OPTICS** - 1-817-599-1050  
**DELL TELEPHONE** - 1-800-245-2991  
**COOP INC.** - 740-6912  
**TXNW-AT&T** -  
**ONEOK** -  
**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 HOLEING 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"**  
**BUFFALO BILL FROM VISTA DEL ESTE TO JOHN HENRY STREET**  
 HORIZONTAL SCALE: 1"=60'  
 VERTICAL SCALE: 1"=10'

**LEGEND**

—	EXISTING POWER LINE	—	STREET ROW LINE	⊠	PROPOSED CROSS
⊙	EXISTING LIGHT POLE	---	EXISTING EDGE OF PAVEMENT	⊕	PROPOSED TEE
⊙	EXISTING SIGN	---	EXISTING CABLE LINE	⊕	PROPOSED 90° BEND
⊙	EXISTING WATER VALVE	---	WATER	---	EXISTING WATER LINE
⊙	EXISTING WATER METER	---	CATV	---	EXISTING GAS LINE
⊙	EXISTING LINE HOOKUP	---	W	---	EXISTING FENCE OR WALL
⊙	EXISTING WATER METER	---	GAS	---	EXISTING OVERHEAD ELECTRIC
⊙	EXISTING TELEPHONE NEARBY	---	OH	---	EXISTING FIBER OPTIC CABLE
⊙	EXISTING MAILBOX	---	PO	---	PROPOSED WATER LINE
⊙	EXISTING CONTROL POINTS	---	---	---	EXISTING LOT LINE
⊙	STREET ADDRESS	---	---	---	---

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

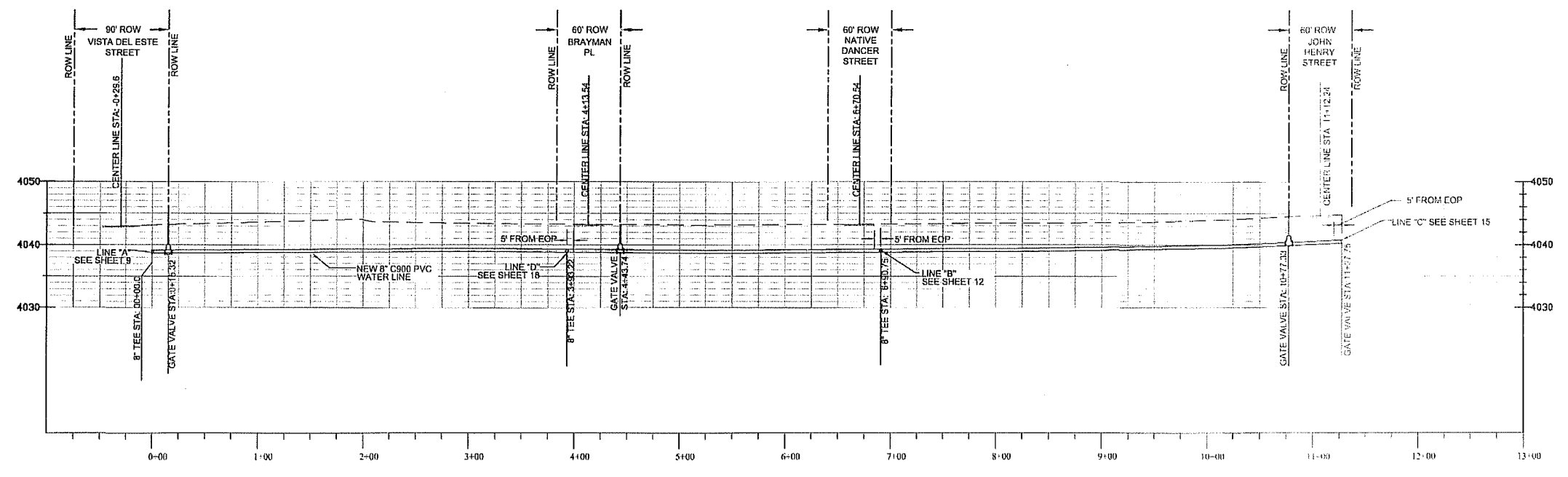
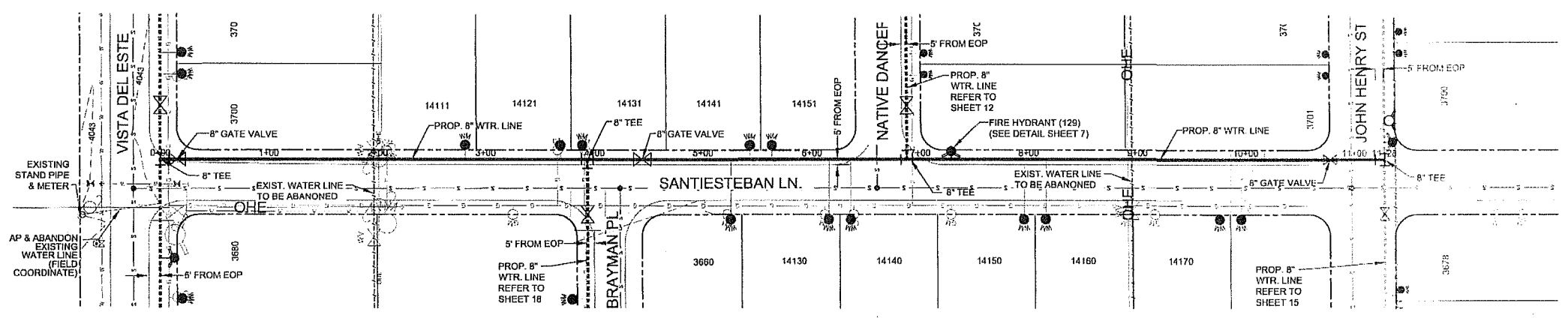
DATE: 08/27/18  
 DESIGN BY: F.H.  
 DRAWN BY: F.H.  
 CHECK BY: F.H.  
 APPRO. BY: F.H.

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**

SHEET  
 25 OF 31



- DIG TESS - 1-811
- EL PASO ELECTRIC CO. - 543-2047
- TEXAS GAS SERVICE - 544-8300
- AT&T - 1-800-285-9343
- TIME WARNER CABLE - 772-1123
- ONE CALL - 811 OR 1-800-344-6377
- E.P. COUNTY WATER - 855-1681
- E.P. NATURAL GAS - 471-0124
- SM & P - 1-800-893-7678
- AT&T FIBER OPTICS - 1-877-585-1056
- DELL TELEPHONE COOP INC. - 1-800-245-2991
- TXNAT&TD - 740-4312
- ONEOK - 1-877-530-5685
- 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 "I"**  
 SANTIESTEBAN LANE FROM VISTA DEL ESTE TO JOHN HENRY STREET  
 HORIZONTAL SCALE: 1"=60'  
 VERTICAL SCALE: 1"=10'

**LEGEND**

	EXISTING MANHOLE POLE		STREET ROW LINE		PROPOSED CROSS
	EXISTING LIGHT POLE		EXISTING CURB 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 WATER MANHOLE		EXISTING OVERHEAD ELECTRIC		PROPOSED WATER METER
	EXISTING TELEPHONE PEDIESTAL		EXISTING FIBER OPTIC CABLE		EXISTING TREE
	EXISTING MANHOLE		PROPOSED WATER LINE		EXISTING GAS METER
	EXISTING CONTROL POINTS		EXISTING LOT LINE		

ENGINEER'S SEAL: [Seal of El Paso County, Texas, License No. 10257]

DATE: 09/12/20  
 DESIGNED BY: F.H.  
 DRAWN BY: A.S.  
 CHECKED BY: F.H.  
 APPROVED BY: [Signature]

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

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- |                      |                         |
|----------------------|-------------------------|
| DIQ TESS             | - 1-811                 |
| EL PASO ELECTRIC CO. | - 543-2047              |
| TEXAS GAS SERVICE    | - 544-0300              |
| AT&T                 | - 1-800-285-8343        |
| TIME WARNER CABLE    | - 772-1123              |
| ONE CALL             | - 811 OR 1-800-344-8377 |
| E.P. COUNTY WATER    | - 655-1051              |
| E.P. NATURAL GAS     | - 471-0124              |
| SW & P               | - 1-855-551-7678        |
| AT&T FIBER OPTICS    | - 1-817-589-1055        |
| DELL TELEPHONE       | - 1-800-245-2991        |
| CDOP INC.            | - 740-6512              |
| ONEOK                | - 1-877-532-5535        |
| BUCKEYE GULF COAST   |                         |
| PIPE LINES           |                         |

**BEFORE YOU DIG**

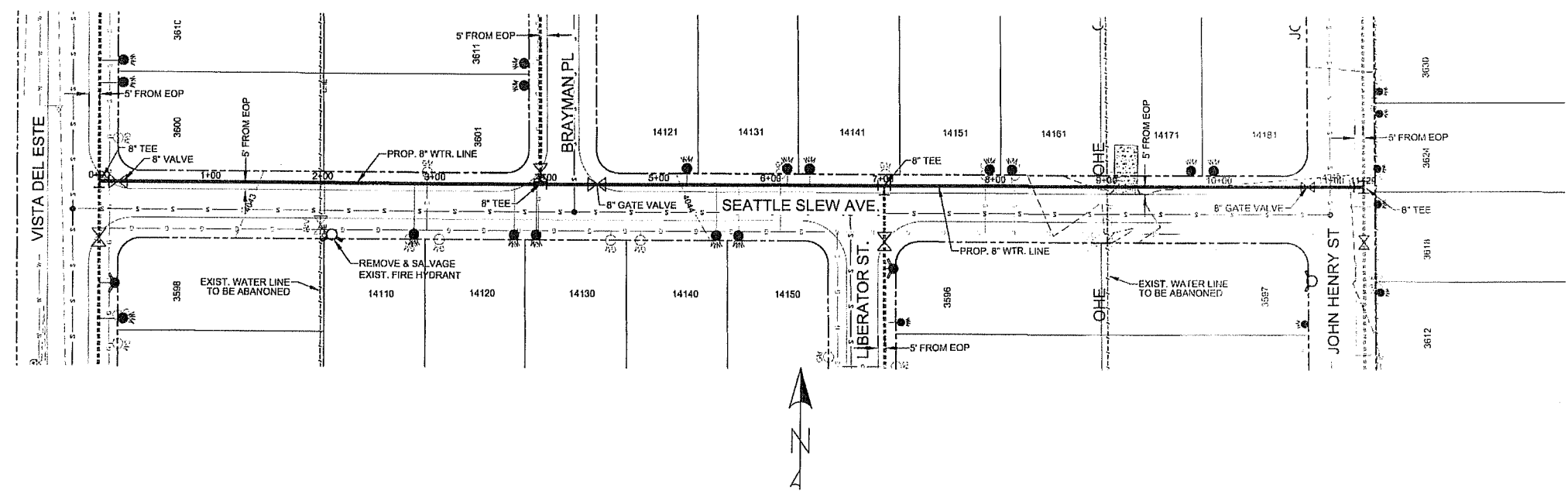
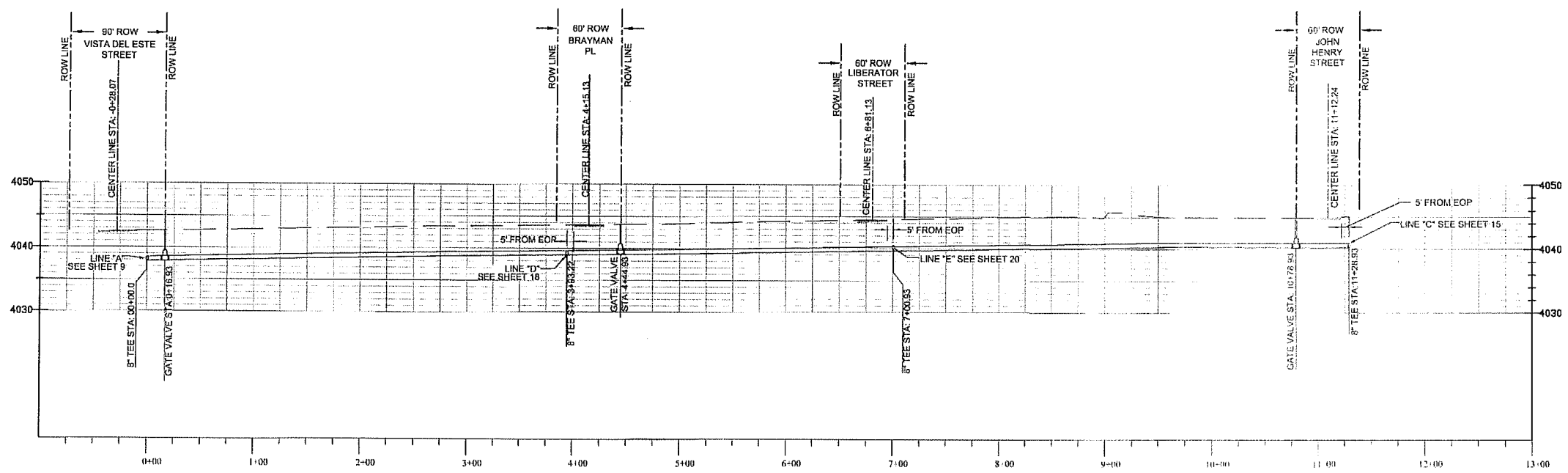
CONTRACTOR SHALL COORDINATE AND FIELD LOCATE ALL EXISTING UNDERGROUND UTILITIES IN THE PROJECT AREA.

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**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 ROW 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 WATER MAIN HYDRANT		EXISTING OVERHEAD ELECTRIC		PROPOSED WATER METER
	EXISTING TELEPHONE PEDIESTAL		EXISTING FIBER OPTIC CABLE		EXISTING TREE
	EXISTING MAILBOX		PROPOSED WATER LINE		EXISTING GAS METER
	EXISTING CONTROL FRAME		EXISTING LOT LINE		
	STREET ADDRESS				

COUNTY OF EL PASO  
 PUBLIC WORKS DEPARTMENT

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

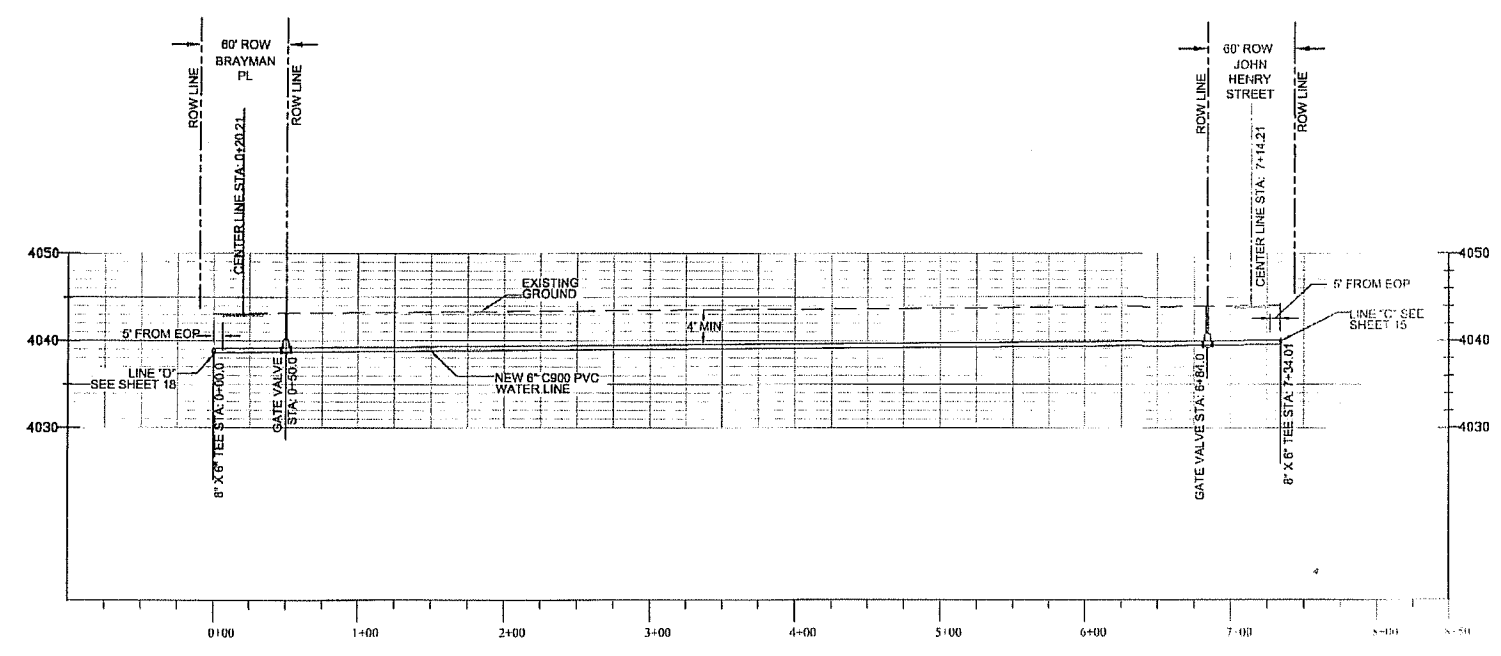
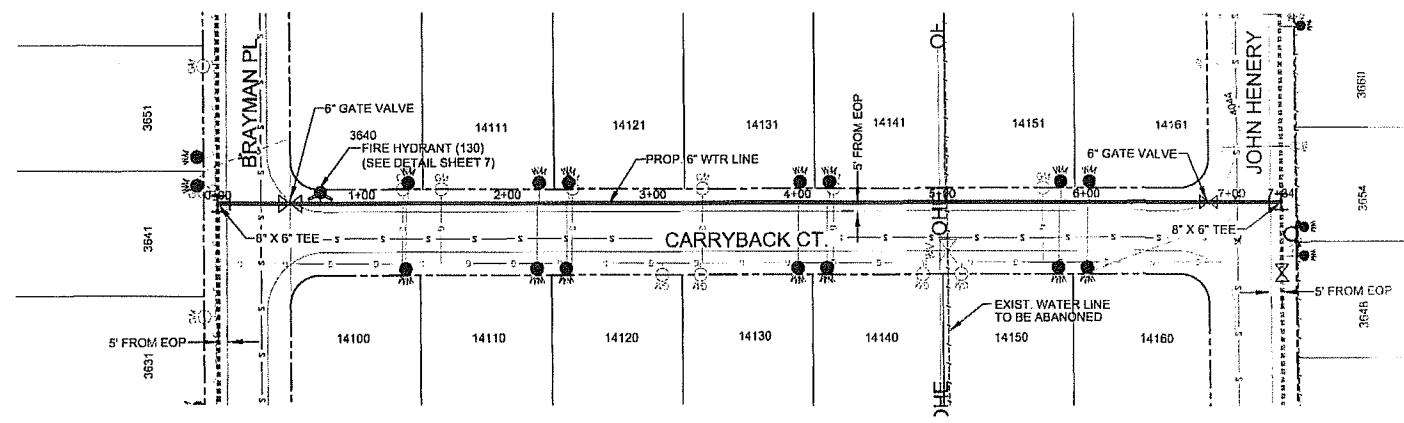
SHEET TITLE  
**8" WATER LINE  
 SEATTLE SLEW  
 PLAN & PROFILE**

SHEET  
 27 OF 31

ENGINEER'S SEAL

SCALE:  
 HOR: VER:  
 DATE: 06/17/16  
 DESIGNED BY: E.L.  
 CHECKED BY: E.L.  
 APPROVED BY: E.L.

REFERENCES --- BENCHMARKS  
 --- BENCHMARKS



DIG TESS	1-811
EL PASO ELECTRIC CO.	543-2047
TEXAS GAS SERVICE	544-6350
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	1-866-861-7678
AT&T FIBER OPTICS	1-817-589-1056
DELL TELEPHONE	1-800-245-2991
COOP INC.	740-6512
TXNW-ATTTO	
ONEOK	740-6512
BUCKEYE GULF COAST PIPE LINES	1-877-530-9685

**BEFORE YOU DIG**

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

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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 ROW LINE	⊕	PROPOSED CROSS
⊕	EXISTING LIGHT POLE	---	EXISTING FOOT OR PAVEMENT	⊕	PROPOSED TEE
⊕	EXISTING SIGN	---	EXISTING WATER LINE	⊕	PROPOSED 90° BEND
⊕	EXISTING WATER VALVE	---	EXISTING GAS LINE	⊕	PROPOSED VALVE
⊕	EXISTING WATER METER	---	EXISTING FENCE OR WALL	⊕	PROPOSED FIRE HYDRANT
⊕	EXISTING FIRE HYDRANT	---	EXISTING OVERHEAD ELECTRIC	⊕	PROPOSED WATER METER
⊕	EXISTING WASTE WATER MANHOLE	---	EXISTING FIBER OPTIC CABLE	⊕	EXISTING TREE
⊕	EXISTING TELEPHONE PEDestal	---	PROPOSED WATER LINE	⊕	EXISTING GAS METER
⊕	EXISTING VALVE	---	EXISTING LOT LINE		
⊕	EXISTING CONTROL POINTS				

ENGINEER'S SEAL  
 STATE OF TEXAS  
 EXPIRES 12/31/27  
 PROJECT NO. 102527  
 SHEET NO. 28 OF 31

SCALE: \_\_\_\_\_  
 HOR. VERT. \_\_\_\_\_  
 DATE: 09/12/18  
 DESIGN BY: E.P.L.  
 CHECK BY: E.P.L.  
 APPR. BY: E.P.L.

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

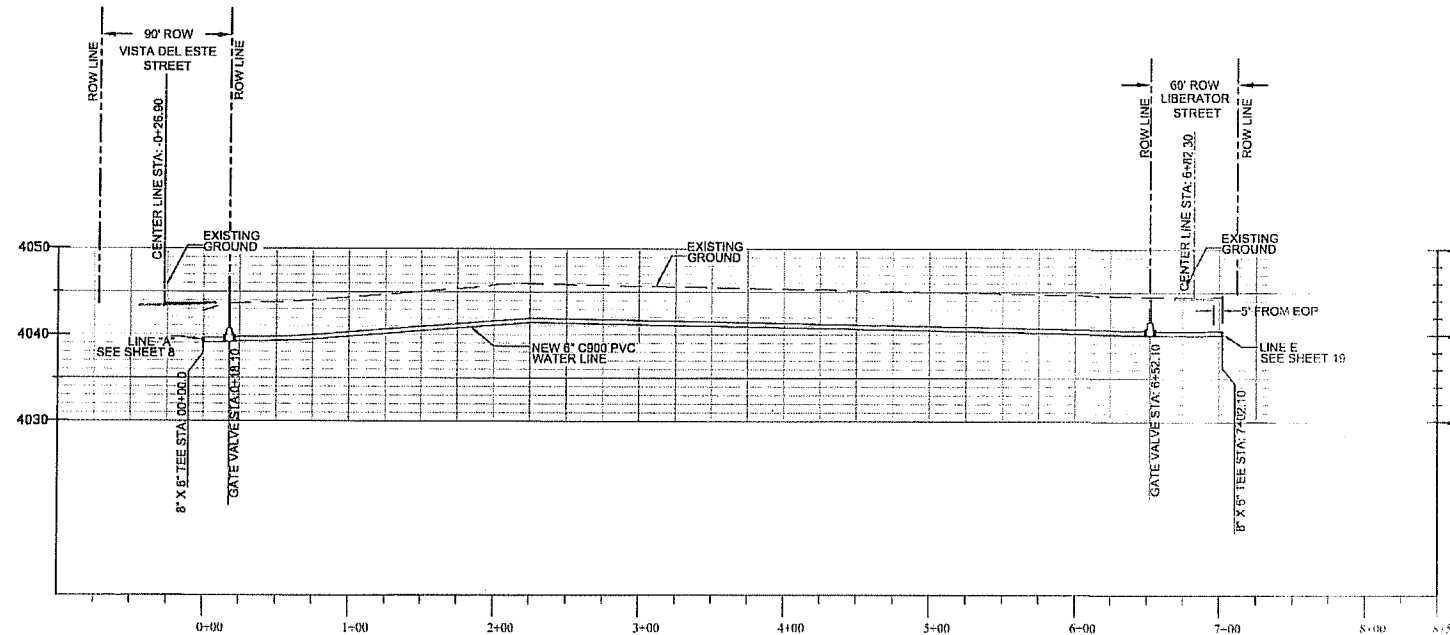
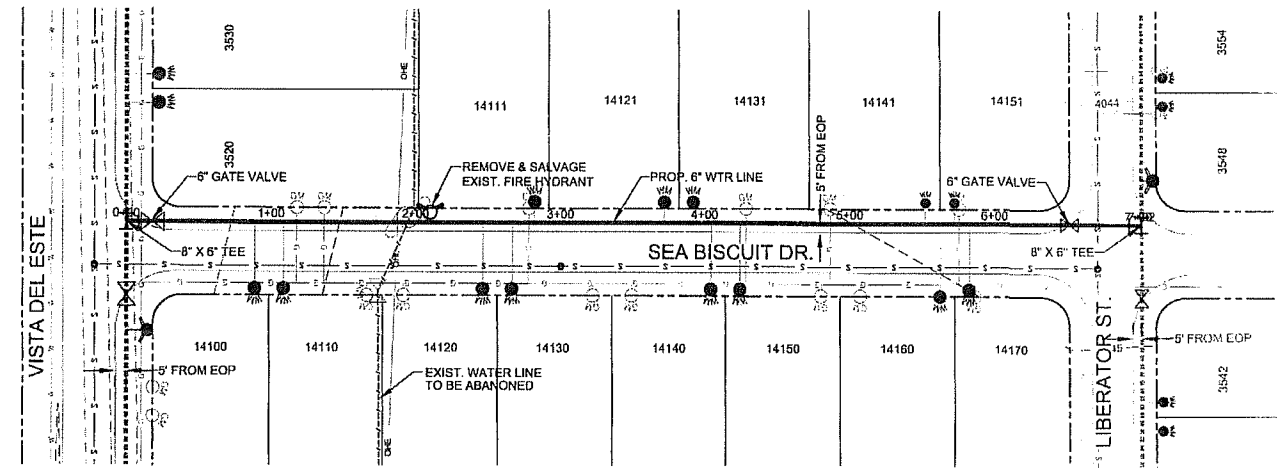
COUNTY OF EL PASO  
 PUBLIC WORKS DEPARTMENT

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

SHEET  
 28 OF 31

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**WATER LINE "P"**  
 SEA BISCUIT 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                              | - 1-800-285-8343        |
| 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                            | - 1-865-551-7678        |
| AT&T FIBER OPTICS                 | - 1-817-589-1056        |
| DELL TELEPHONE COOP. INC.         | - 1-800-245-2391        |
| TXNW-ATT/D                        | - 740-8912              |
| ONEOK                             | - 740-8912              |
| BUCKEYE OILFIELD COAST PIPE LINES | - 1-877-530-5885        |

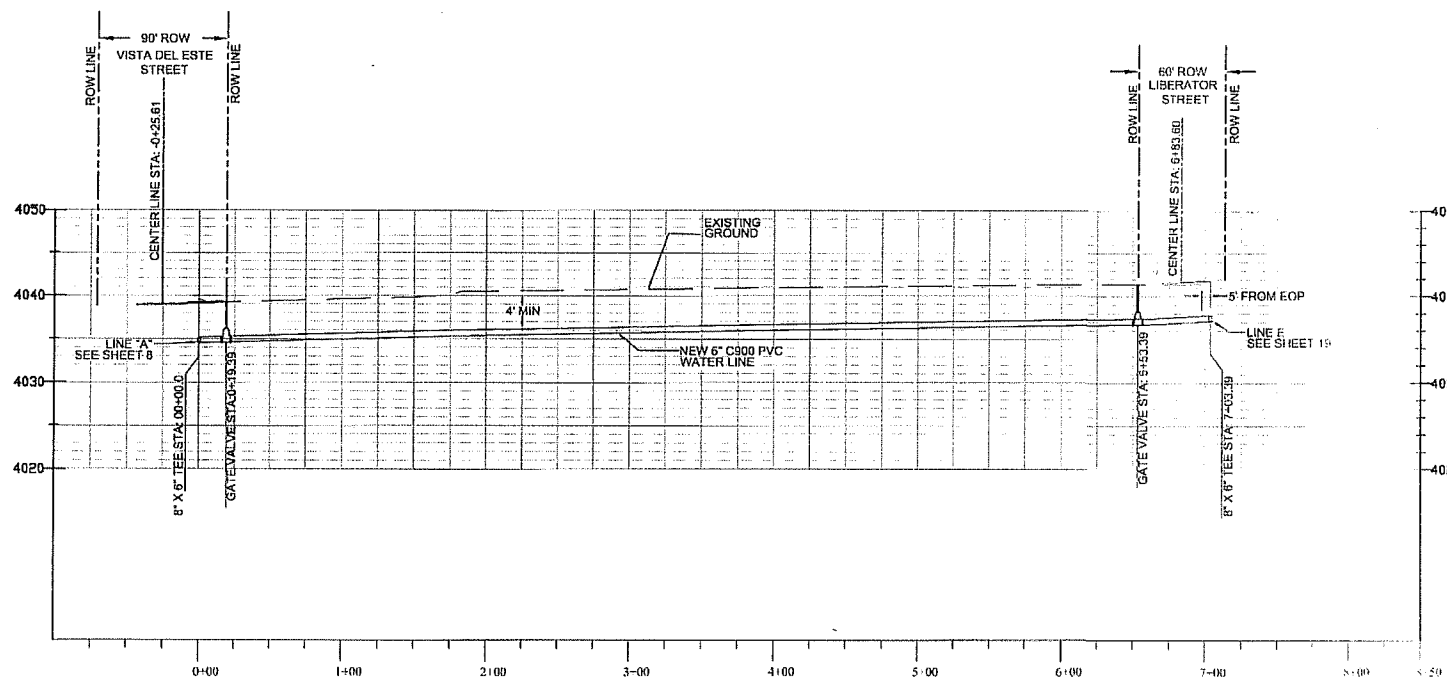
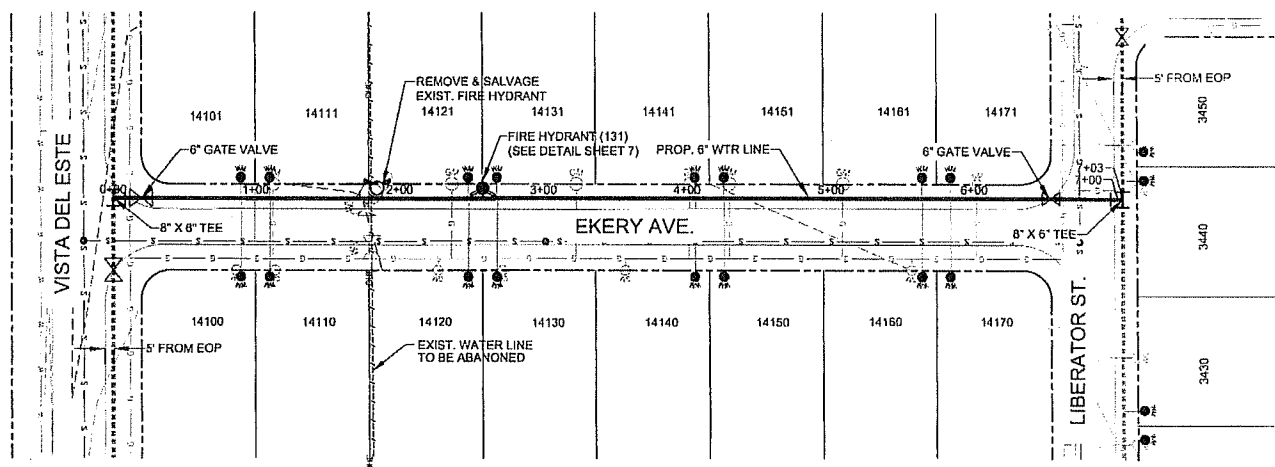
**BEFORE YOU DIG**

CONTRACTOR SHALL COORDINATE AND FIELD LOCATE ALL EXISTING UNDERGROUND UTILITIES IN THE PROJECT AREA.  
 CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD LOCATING, POT HOLEING 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		
	--- STRIKE-IT-OUT LINE	
	--- EXISTING EDGE OF PAVEMENT	
	--- CATV	
	--- EXISTING WATER LINE	
	--- GAS	
	--- EXISTING FENCE OR WALL	
	--- OH	
	--- FO	
	--- PROPOSED WATER LINE	
	--- EXISTING LOT LINE	

COUNTY OF EL PASO PUBLIC WORKS DEPARTMENT	PROJECT NAME <b>VISTA DEL ESTE          WATER DISTRIBUTION SYSTEM</b>	ENGINEER'S SEAL 	REFERENCES -- BENCHMARKS BENCHMKS DATE BY
SHEET TITLE <b>6" WATER LINE          SEA BISCUIT DRIVE          PLAN &amp; PROFILE</b>		SCALE: HORIZ. VERT. DATE: 09/12/10 DESIGNED BY: EEL DRAWN BY: ZAR CHECKED BY: EEL APPR. BY: EEL	SHEET <b>29</b> OF <b>31</b>

The County of El Paso



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

VERTICAL SCALE: 1"=10'

**LEGEND**

(Symbol)	EXISTING POWER POLE	(Symbol)	STREET ROW LINE	(Symbol)	PROPOSED CROSS
(Symbol)	EXISTING LIGHT POLE	(Symbol)	EXISTING EDGE OF PAVEMENT	(Symbol)	PROPOSED TEE
(Symbol)	EXISTING SIGN	(Symbol)	EXISTING CABLE LINE	(Symbol)	PROPOSED 60° BEND
(Symbol)	EXISTING WATER VALVE	(Symbol)	EXISTING WATER LINE	(Symbol)	PROPOSED CAP
(Symbol)	EXISTING WATER METER	(Symbol)	GAS	(Symbol)	PROPOSED VALVE
(Symbol)	EXISTING FIRE HYDRANT	(Symbol)	EXISTING FENCE OR WALL	(Symbol)	PROPOSED FIRE HYDRANT
(Symbol)	EXISTING WASTE WATER MANHOLE	(Symbol)	EXISTING OVERHEAD ELECTRIC	(Symbol)	PROPOSED WATER METER
(Symbol)	EXISTING TELEPHONE PEDestal	(Symbol)	EXISTING FIBER OPTIC CABLE	(Symbol)	EXISTING TRFF
(Symbol)	EXISTING TRAFFIC	(Symbol)	PROPOSED WATER LINE	(Symbol)	EXISTING GAS METER
(Symbol)	EXISTING CONTROL POINTS	(Symbol)	EXISTING LOT LINE		
XXXX	STREET ADDRESS				

DIG TESS	1-811
EL PASO ELECTRIC CO.	543-2047
TEXAS GAS SERVICE	544-6300
AT&T	1-800-288-8343
TIME WARNER CABLE	772-1123
ONE CALL	811 OR 1-800-344-8377
E.P. COUNTY WATER	855-1081
E.P. NATURAL GAS	471-0124
SM & P	1-866-861-7678
AT&T FIBER OPTICS	1-817-559-1055
DELL TELEPHONE	1-800-246-2991
TXHW-ATTID	740-6512
ONEOK	1-877-533-5566
BUCKEYE GULF COAST PIPE LINES	

**BEFORE YOU DIG**

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ENGINEER'S SEAL: [Seal]

SCALE: [ ]

DATE: 09/12/18  
 DESIGNED BY: [ ]  
 DRAWN BY: [ ]  
 CHECKED BY: [ ]  
 APPLIC. BY: [ ]

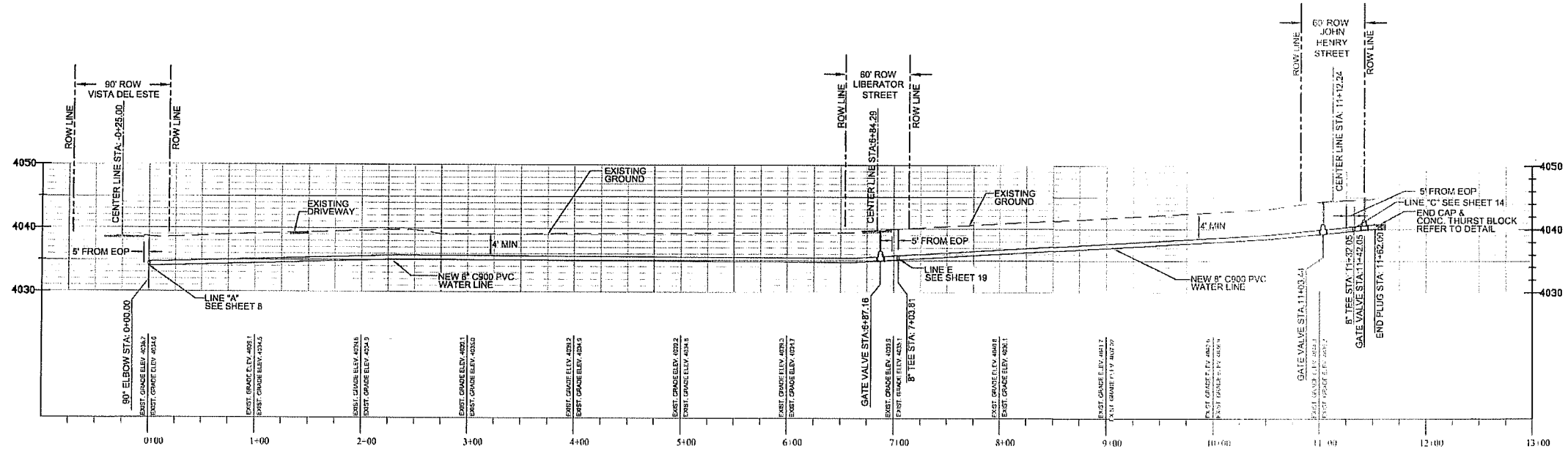
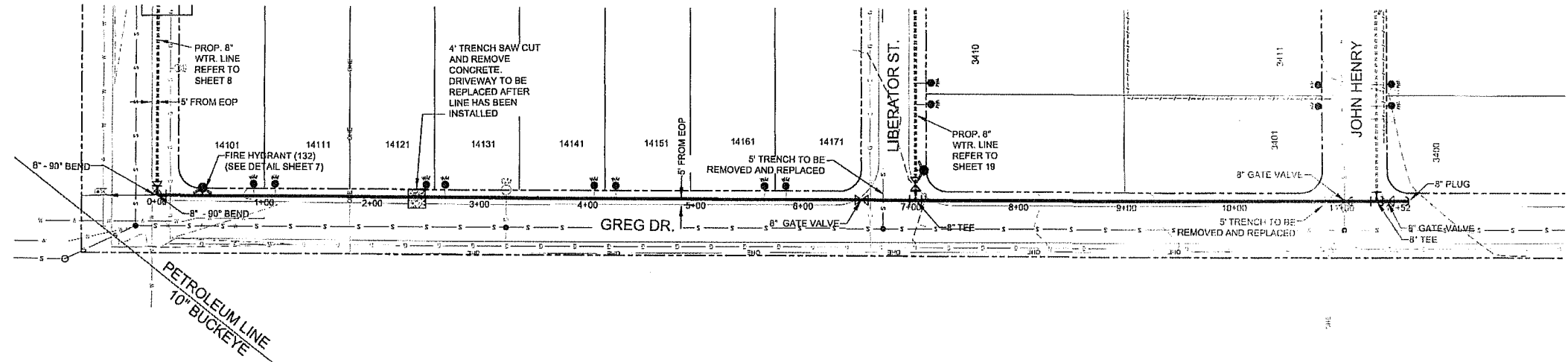
PROJECT NAME: **VISTA DEL ESTE WATER DISTRIBUTION SYSTEM**

COUNTY OF EL PASO PUBLIC WORKS DEPARTMENT

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

SHEET 30 OF 31

S:\PROJECTS\1073-001\_18022.dwg: Ekery Ave. Water Distribution System Construction Drawing\A:\cadd\1073-001.dwg: 5/17/2018 9:51:53 AM



- DID TESS - 1-811
- EL PASO ELECTRIC CO. - 543-2347
- TEXAS GAS SERVICE - 544-5300
- AT&T - 1-800-288-8343
- TIME WARNER CABLE - 775-1123
- ONE CALL - 611 OR 1-800-344-8377
- E.P. COUNTY WATER - 855-1581
- E.P. NATURAL GAS - 471-0124
- SM & P - 1-688-861-7676
- AT&T FIBER OPTICS - 1-817-359-1086
- DELL TELEPHONE COOP INC - 1-800-245-2991
- ONOK - 749-8512
- BUCKEYE GULF COAST PIPE LINES - 1-877-630-6685

**BEFORE YOU DIG**

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

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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**

<ul style="list-style-type: none"> <li>EXISTING WATER PIPE</li> <li>EXISTING LIGHT POLE</li> <li>EXISTING SIGN</li> <li>EXISTING WATER VALVE</li> <li>EXISTING WATER METER</li> <li>EXISTING FIRE HYDRANT</li> <li>EXISTING WASTE WATER MANHOLE</li> <li>EXISTING TELEPHONE CABLE</li> <li>EXISTING MAILBOX</li> <li>EXISTING CONCRETE FOUNDATION</li> <li>STREET ADDRESS</li> </ul>	<ul style="list-style-type: none"> <li>STREET MID ST LINE</li> <li>EXISTING EDGE OF PAVEMENT</li> <li>EXISTING CABLE LINE</li> <li>EXISTING WATER LINE</li> <li>EXISTING GAS LINE</li> <li>EXISTING FENCE OR WALL</li> <li>EXISTING OVERHEAD ELECTRIC</li> <li>EXISTING FIBER OPTIC CABLE</li> <li>EXISTING WATER LINE</li> <li>EXISTING LOT LINE</li> </ul>	<ul style="list-style-type: none"> <li>PROPOSED CROSS</li> <li>PROPOSED TEE</li> <li>PROPOSED 90° BEND</li> <li>PROPOSED CAP</li> <li>PROPOSED VALVE</li> <li>PROPOSED FIRE HYDRANT</li> <li>PROPOSED WATER METER</li> <li>EXISTING TREE</li> <li>EXISTING GAS METER</li> </ul>
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ENGINEER'S SEAL

SCALE: 1"=60'

DATE: 08/27/08

DESIGN BY: F.H.

DRAWN BY: A.S.

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 GREG DRIVE PLAN & PROFILE

SHEET 31 OF 31