

# EAST RIO HONDO WATER SUPPLY CORPORATION

## ARROYO COLORADO ESTATES WATERLINE IMPROVEMENTS

### SAN BENITO, TEXAS

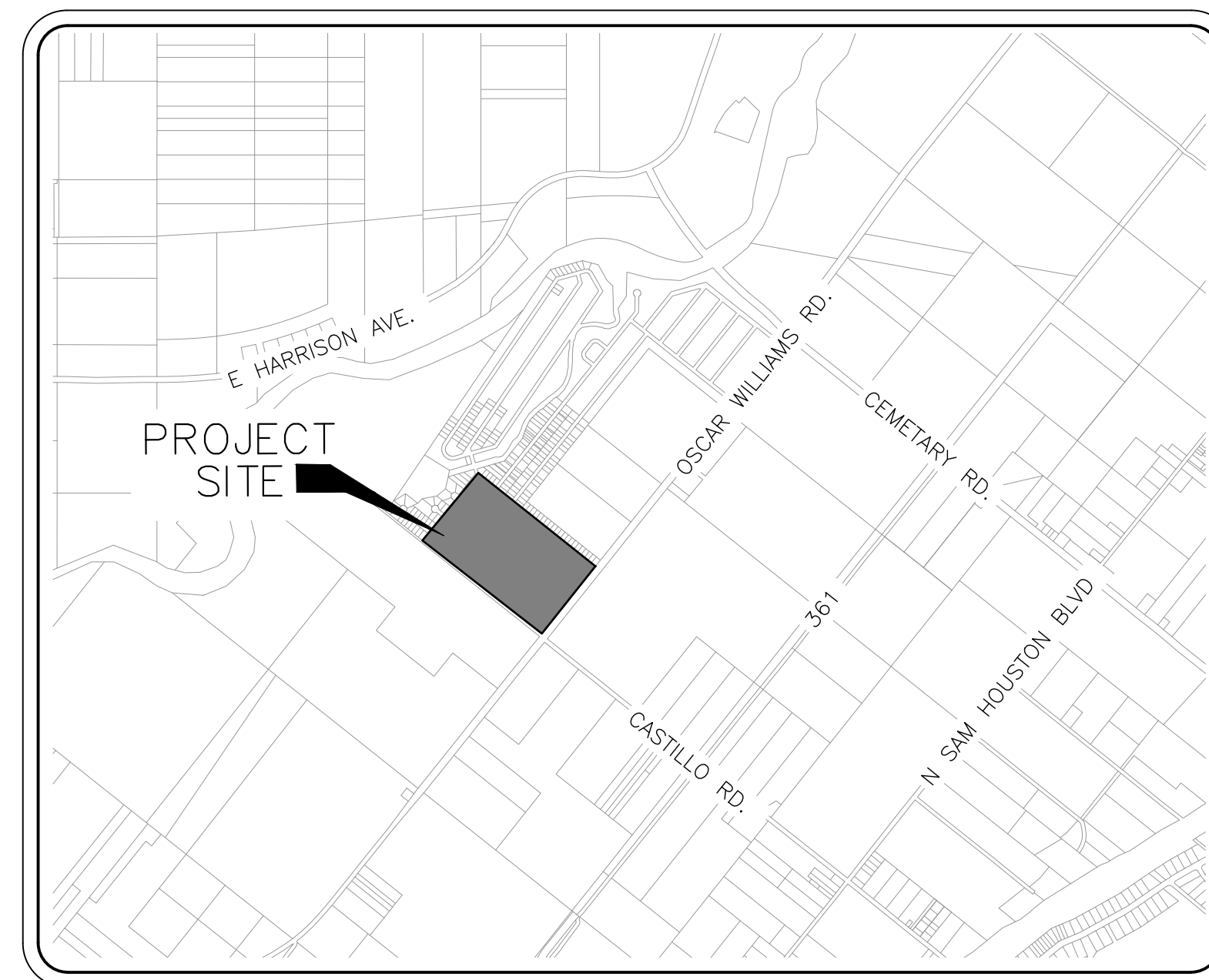
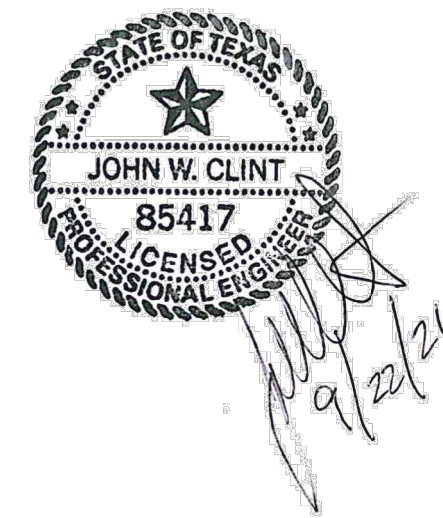
#### SHEET INDEX

#### OWNER/DEVELOPER

EAST RIO HONDO WATER SUPPLY CORPORATION  
RIO HONDO, TEXAS, 78583  
CONTACT: BRIAN MACMANUS, P.E.  
EMAIL: BEMACMANUS@ERHWSC.COM  
TEL: (956) 748-3633

#### ENGINEER

HALFF ASSOCIATES, INC.  
1075 PAREDES LINE ROAD SUITE B  
BROWNSVILLE, TX. 78521  
CONTACT: JOHN W. CLINT, P.E.  
EMAIL: JCLINT@HALFF.COM  
TEL: (956) 303-7100  
TBPE FIRM# F-312



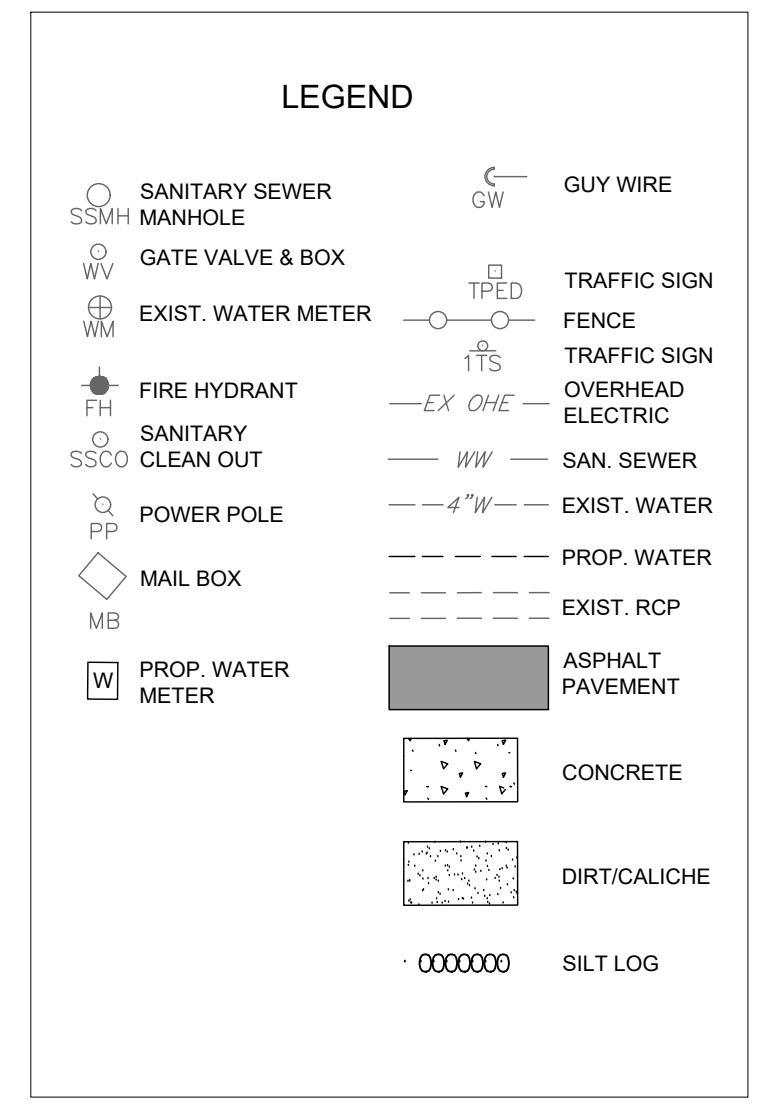
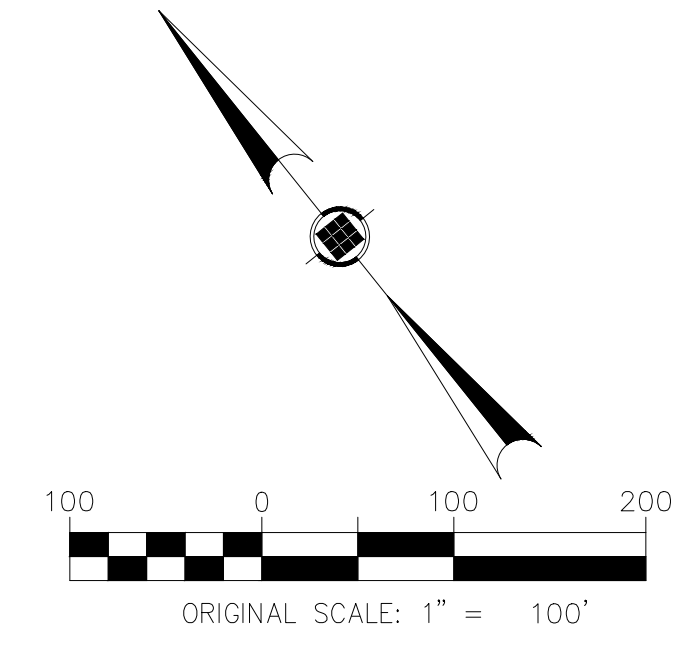
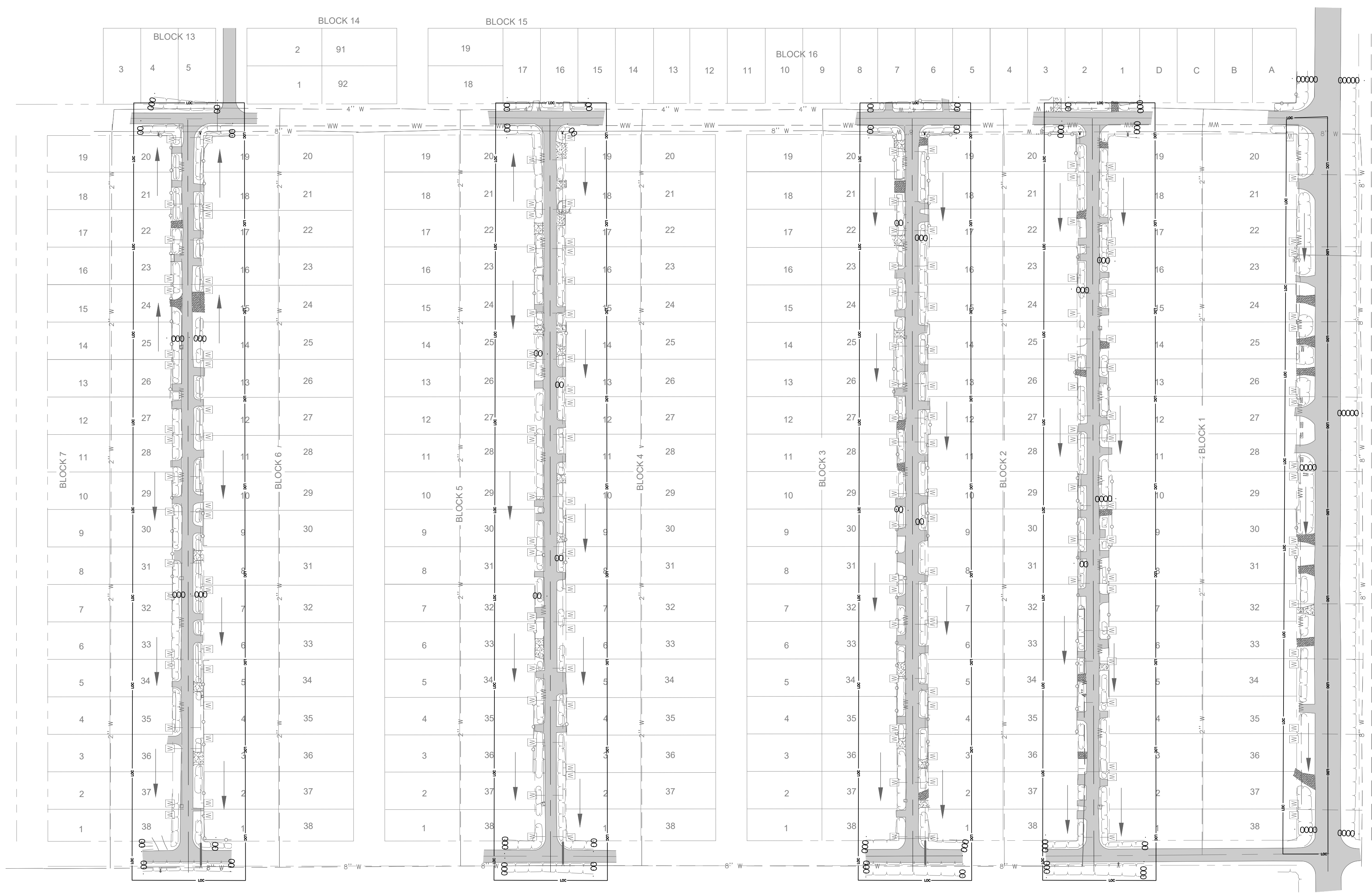
LOCATION MAP  
SCALE / 1" = 2000'

SHEET #	SHEET NAME
SITE	
1	COVER PAGE
2	GENERAL NOTES
3	MINIMUM SUGGESTED EROSION CONTROL MEASURES
4	OVERVIEW MAP
PLAN SHEET	
5	OSCAR WILLIAMS ROAD STA 9+70 TO 20+00
6	OSCAR WILLIAMS ROAD STA 20+00 TO STA 21+78
7	BERNARD AVENUE STA 9+70 TO 20+00
8	BERNARD AVENUE STA 20+00 TO STA 21+78
9	CARY AVENUE STA 9+70 TO 20+00
10	CARY AVENUE STA 20+00 TO STA 21+78
11	LEIGH AVENUE STA 9+70 TO 20+00
12	LEIGH AVENUE STA 20+00 TO STA 21+78
13	NEIL AVENUE STA 9+70 TO 20+00
14	NEIL AVENUE STA 20+00 TO STA 21+78
15	WATERLINE DETAILS
16	MINIMUM SUGGESTED EROSION CONTROL DETAILS

THE SEAL(S) APPEARING ON THIS CONSTRUCTION SET WERE AUTHORIZED BY:  
JOHN W. CLINT P.E. (TBPE NO. 85417)  
ON 04/21/2020.  
ALTERATION OF SEALED DOCUMENTS WITHOUT PROPER NOTIFICATION TO  
THE RESPONSIBLE ENGINEER IS AN OFFENSE UNDER THE TEXAS ENGINEERING  
PRACTICE ACT. THE RECORD COPY OF THIS DRAWING IS ON FILE AT THE  
OFFICES OF:  
HALFF ASSOCIATES, INC  
1075 PAREDES LINE ROAD SUITE B  
BROWNSVILLE, TEXAS 78521  
TBPE FIRM #F-312







**STORM WATER POLLUTION PREVENTION PLAN INFORMATION**

**NATURE OF CONSTRUCTION ACTIVITY**  
 \* WATERLINE INSTALLATION

**SEQUENCE OF MAJOR ACTIVITIES**  
 \* INSTALL EROSION CONTROL ACTIVITIES  
 \* TRENCH, INSTALL AND BACKFILL WATERLINE  
 \* TRENCH, INSTALL AND BACKFILL WATERLINE SERVICE LINES  
 \* TRENCH, INSTALL AND BACKFILL WATER YARD LINES  
 \* WATERLINE TESTING AND FINAL CONNECTIONS  
 \* FINAL GRADING AND CLEANUP

**AREA OF SITE**  
 \* TOTAL AREA OF DISTURBANCE: 0.9 ACRES

**ESTIMATED RUNOFF COEFFICIENT**  
 \* PRE-CONSTRUCTION C "0.55 (5 YEAR EVENT) RESIDENTIAL LAND USE  
 \* POST-CONSTRUCTION C "0.55 (5 YEAR EVENT) RESIDENTIAL LAND USE

**SOIL DESCRIPTION:**  
 \* MERCEDES CLAY, 0 TO 1 PERCENT SLOPES  
 \* MERCEDES CLAY, 1 TO 3 PERCENT SLOPES

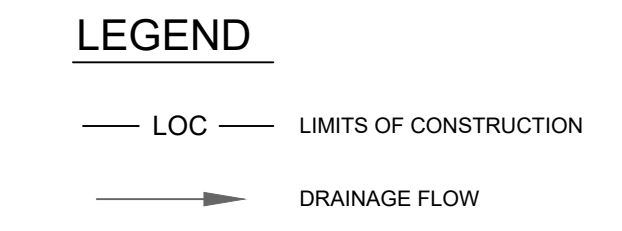
**SITE PLAN SHOWS THE FOLLOWING:**  
 \* GENERAL DRAINAGE PATTERS  
 \* AREAS OF SOIL DISTURBANCE  
 \* LOCATIONS OF MAJOR STRUCTURAL/NON-STRUCTURAL CONTROLS  
 \* LOCATIONS WHERE STABILIZATION PRACTICES ARE TO OCCUR

**NAME OF RECEIVING WATERS**  
 ARROYO COLORADO

**BMP'S TO BE IMPLEMENTED**  
 \* DURING CONSTRUCTION, SILT FENCING OR EROSION CONTROL LOGS SHALL BE ERECTED AND MAINTAINED WHERE SHOWN TO MINIMIZE ESCAPE OF SEDIMENT INTO STORM SEWER SYSTEM.

**NOTES:**

- THIS IS NOT A STORM WATER POLLUTION PREVENTION PLAN. CONTRACTOR MUST PROVIDE HIS OPERATION'S SPECIFIC INFORMATION AS PER THE TCEQ PERMIT AND THE SPECIFICATIONS. INCLUDE ALL DOCUMENTATION AND CERTIFICATIONS AS PER THE TCEQ PERMIT
- STABILIZED CONSTRUCTION ENTRANCE/EXIT LOCATIONS SHALL BE DETERMINED BY THE CONTRACTOR.



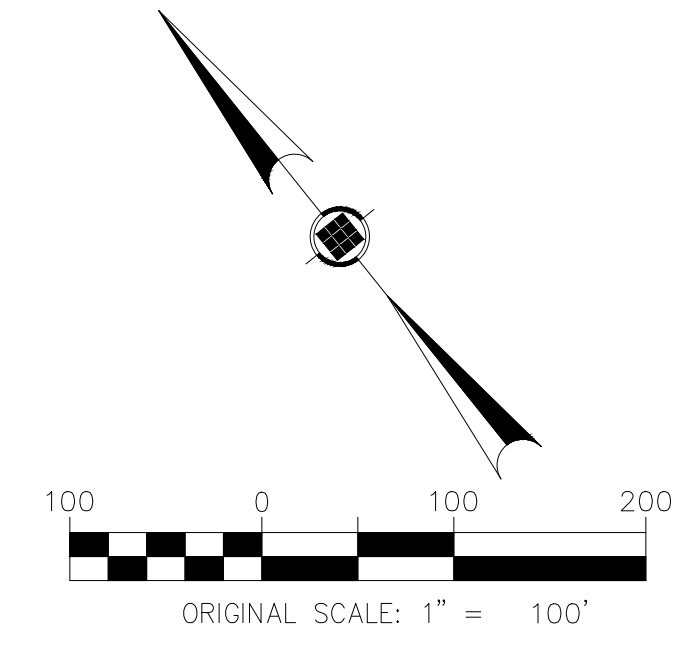
**EAST RIO HONDO WATER SUPPLY CORPORATION**  
 ARROYO COLORADO ESTATES WATER LINE UPGRADES  
 CAMERON COUNTY, TEXAS



Revision No.	Date	Description

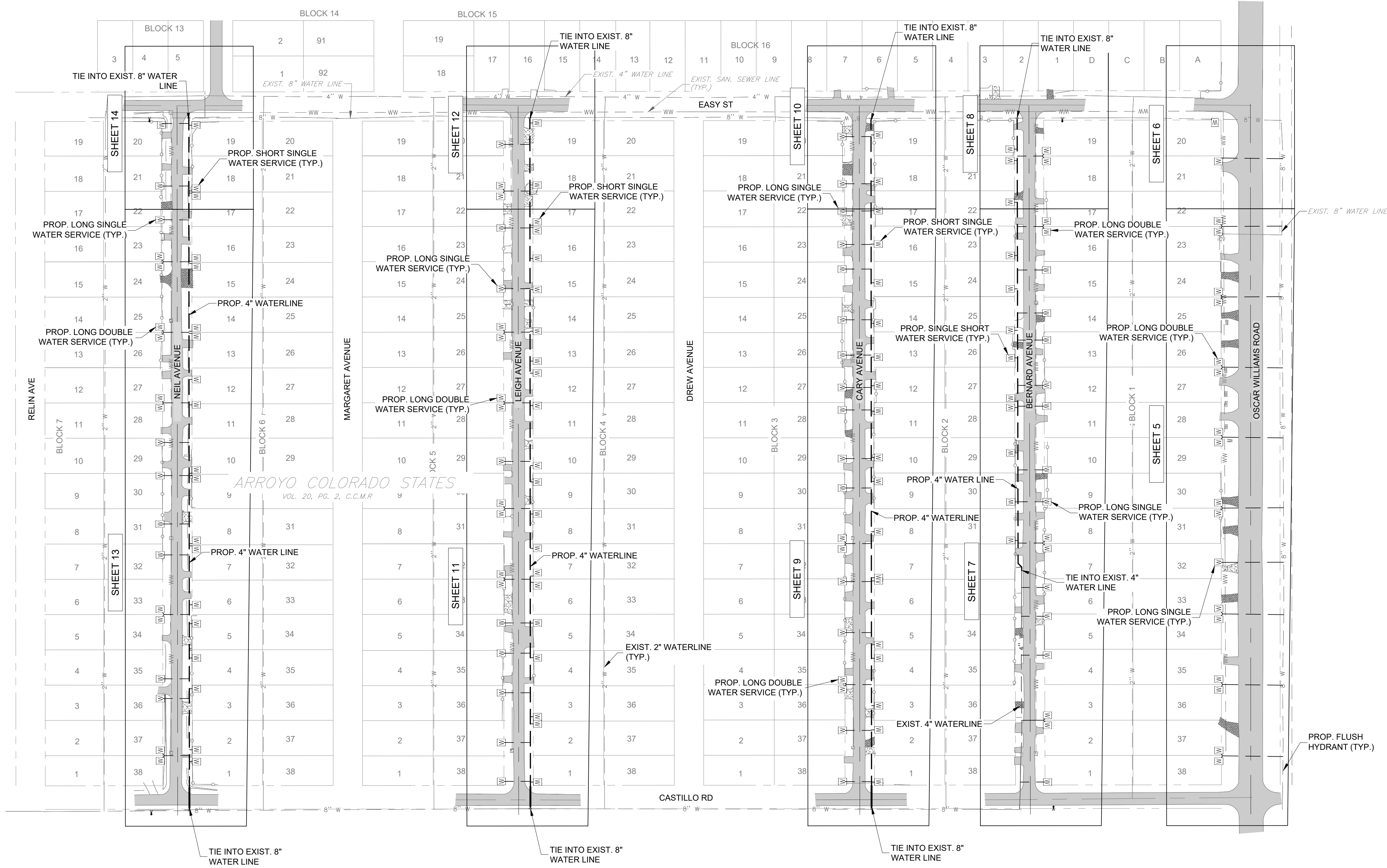


Project No.:	38611.001
Issued:	09/28/2021
Drawn By:	JG
Checked By:	JWC
Scale:	AS NOTED
Sheet Title	MINIMUM SUGGESTED EROSION CONTROL MEASURES



**LEGEND**

SSMH	SANITARY SEWER MANHOLE	GW	GUY WIRE
GW	GATE VALVE & BOX	TPED	TRAFFIC SIGN
WM	EXIST. WATER METER	FENCE	TRAFFIC SIGN
PH	FIRE HYDRANT	OVERHEAD ELECTRIC	
SSCO	SANITARY CLEAN OUT	WW	SAN. SEWER
PP	POWER POLE	4" W	EXIST. WATER
MB	MAIL BOX	---	PROP. WATER
WM	PROP. WATER METER	---	EXIST. RCP
		ASPHALT PAVEMENT	
		CONCRETE	
		DIRT/CALICHE	



ARROYO COLORADO STATES  
VOL. 20, PG. 2, C.C.M.R

**WATER METER AND YARDLINE NOTE:**  
PRIOR TO THE BEGINING OF WORK ON EACH RESIDENTIAL SITE, THE CONTRACTOR SHALL COORDINATE WITH E.R.H.W.S.C. AND THE INSPECTOR TO VERIFY THE BEST LOCATION FOR THE PROPOSED METER AND YARDLINE. ONCE THE BEST ROUTE IS DETERMINED BY THE PARTIES, THE CONTRACTOR SHALL MARK THE LOCATION WITH PAINT.

**EAST RIO HONDO WATER SUPPLY CORPORATION**  
ARROYO COLORADO ESTATES WATER LINE UPGRADES  
CAMERON COUNTY, TEXAS



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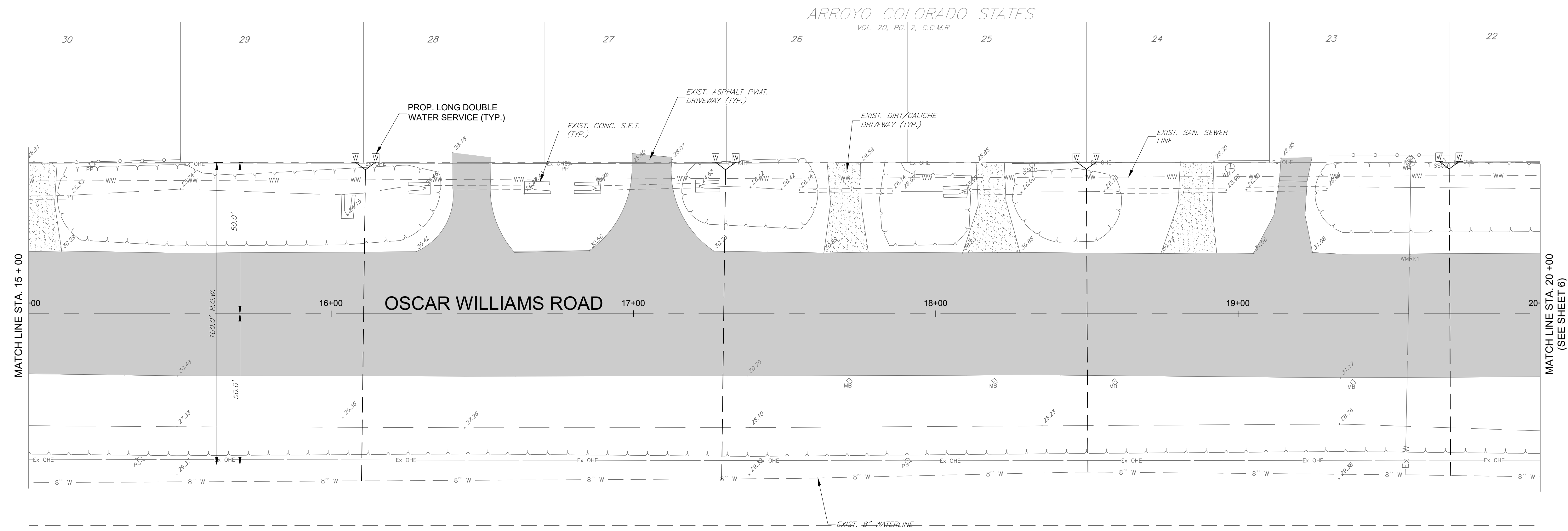
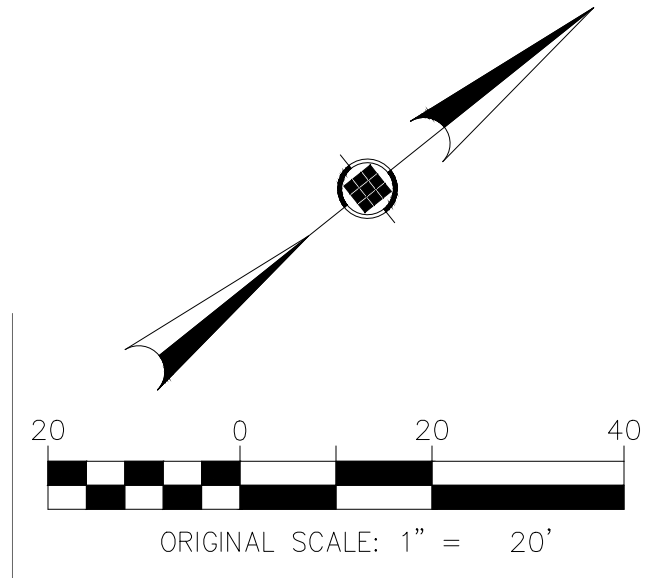
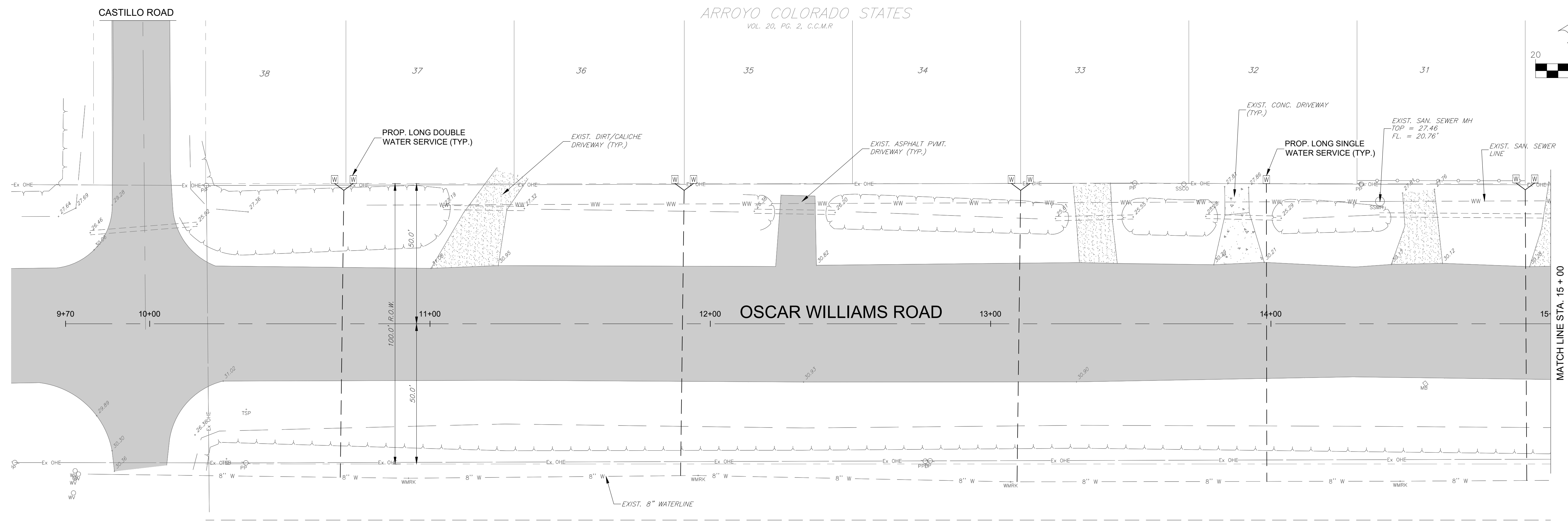


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Scale: AS NOTED  
Sheet Title

OVERVIEW MAP

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**LEGEND**

○ SSMH MANHOLE	— GUY WIRE
□ GATE VALVE & BOX	— TPED TRAFFIC SIGN
⊕ EXIST. WATER METER	— FENCE
⊕ FIRE HYDRANT	— TRAFFIC SIGN
○ SANITARY CLEAN OUT	— EX OHE OVERHEAD ELECTRIC
⊕ SSCO	— WW SAN. SEWER
⊕ POWER POLE	— 4" W EXIST. WATER
◇ MAIL BOX	— PROP. WATER
□ PROP. WATER METER	— EXIST. RCP
	— ASPHALT PAVEMENT
	— CONCRETE
	— DIRT/CALICHE

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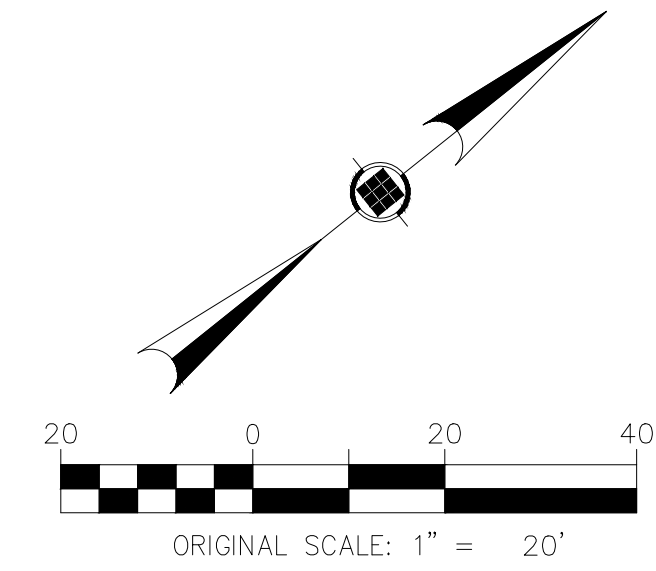
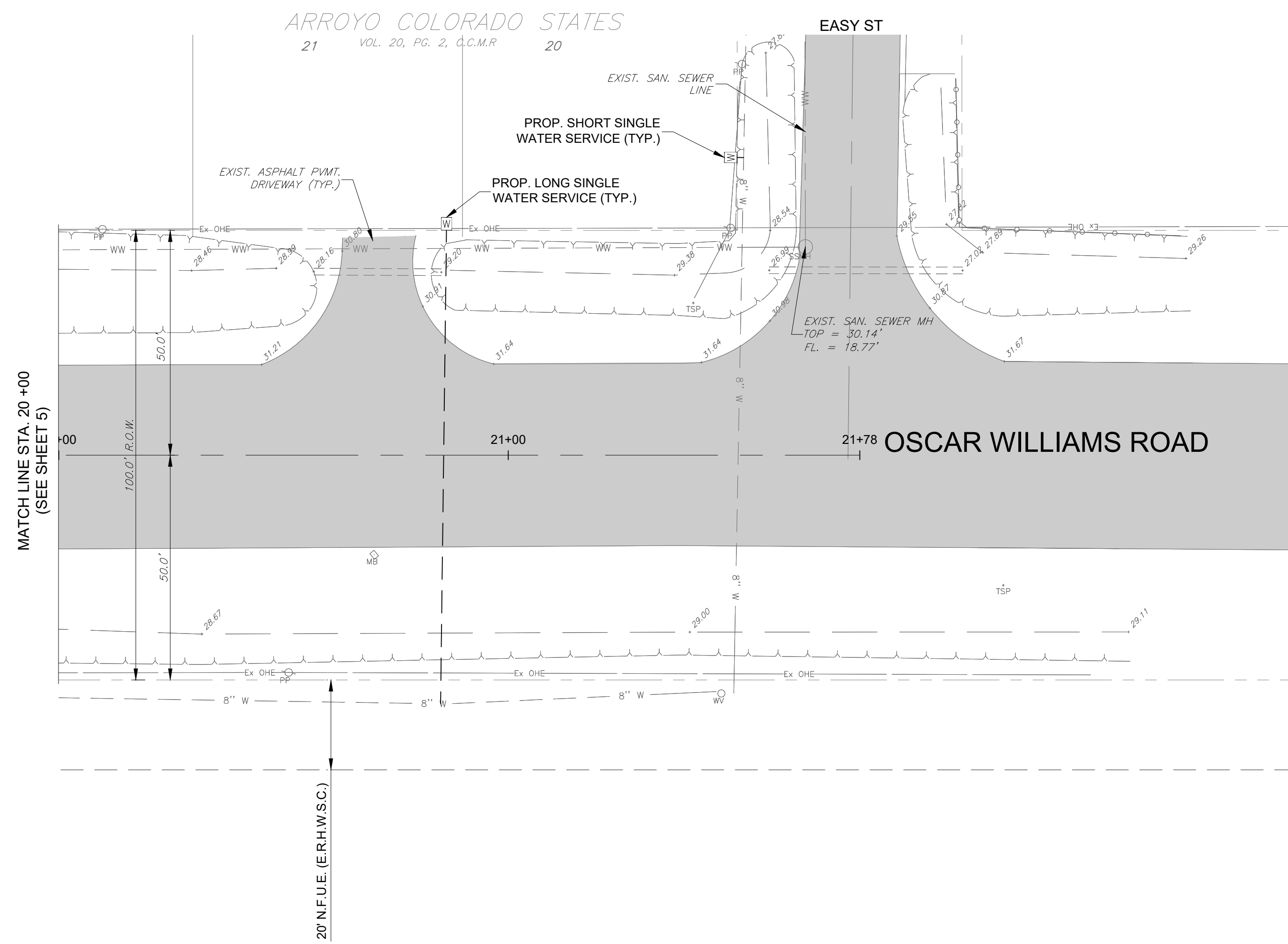
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Project No.:	38611.001
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Scale:	AS NOTED
Sheet Title	OSCAR WILLIAMS ROAD
	STA 9+70 TO STA 20+00
Sheet Number	5



**LEGEND**

○ SSMH	SANITARY SEWER MANHOLE	GW	GUY WIRE
⊕	GATE VALVE & BOX	TPED	TRAFFIC SIGN
⊕	EXIST. WATER METER	TT	TRAFFIC SIGN OVERHEAD ELECTRIC
⊕	FIRE HYDRANT	EX OHE	SAN. SEWER
○	SANITARY CLEAN OUT	4" W	EXIST. WATER
⊕	POWER POLE	---	PROP. WATER
◇	MAIL BOX	---	EXIST. RCP
MB	PROP. WATER METER	ASPH	ASPHALT PAVEMENT
		CONC	CONCRETE
		DIRT	DIRT/CALICHE

**EAST RIO HONDO WATER SUPPLY CORPORATION**  
 ARROYO COLORADO ESTATES WATER LINE UPGRADES  
 CAMERON COUNTY, TEXAS



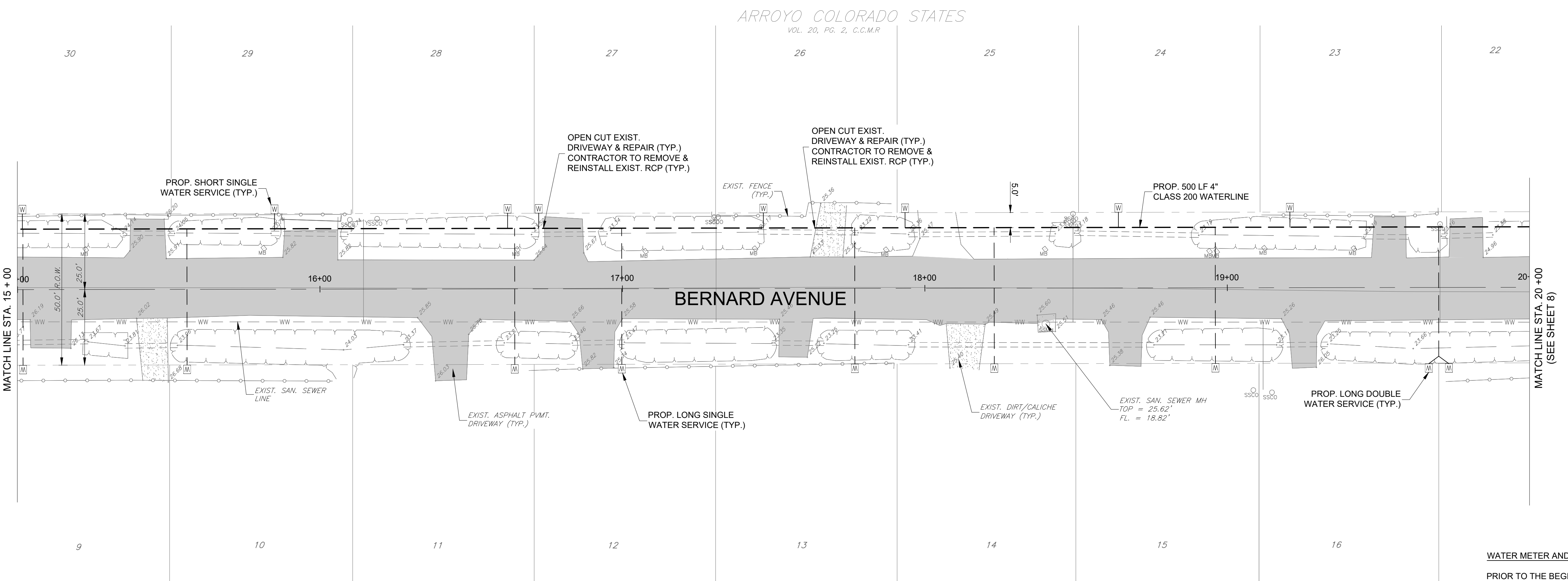
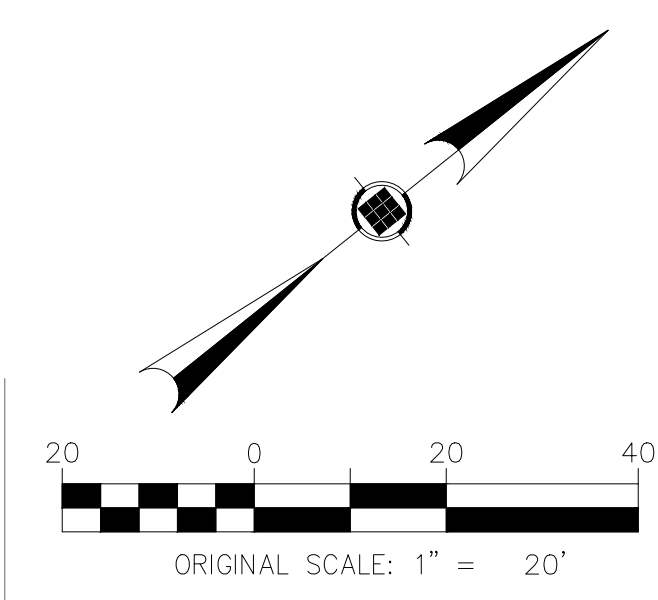
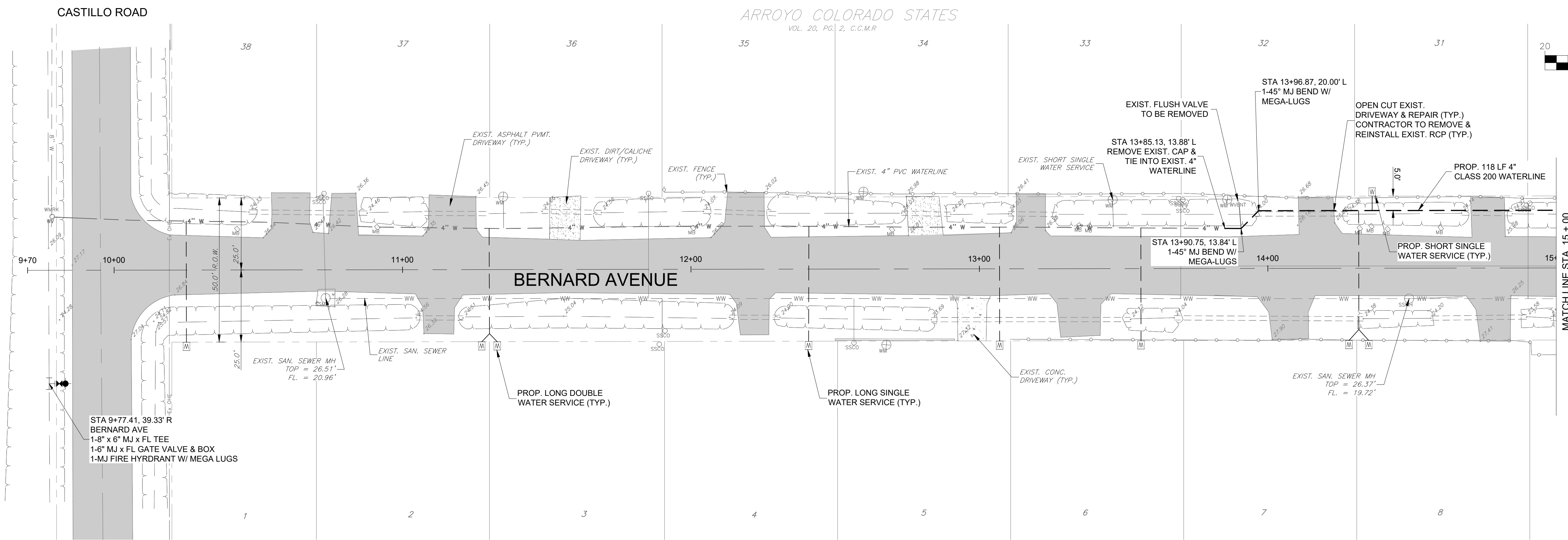
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Project No.:	38611.001
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Sheet Title	OSCAR WILLIAMS ROAD STA 20+00 TO STA 21+78

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**LEGEND**

○ SSMH	SANITARY SEWER MANHOLE	○ GW	GUY WIRE
○ WV	GATE VALVE & BOX	□ TPED	TRAFFIC SIGN
⊕ WM	EXIST. WATER METER	○ ITS	FENCE
● FH	FIRE HYDRANT	— EX OHE —	TRAFFIC SIGN OVERHEAD ELECTRIC
SSCO	SANITARY CLEAN OUT	— WW —	SAN. SEWER
□ PP	POWER POLE	— 4\" W —	EXIST. WATER
◇ MB	MAIL BOX	— — —	PROP. WATER
□ W	PROP. WATER METER	— — —	EXIST. RCP
		■	ASPHALT PAVEMENT
		■	CONCRETE
		■	DIRT/CALICHE

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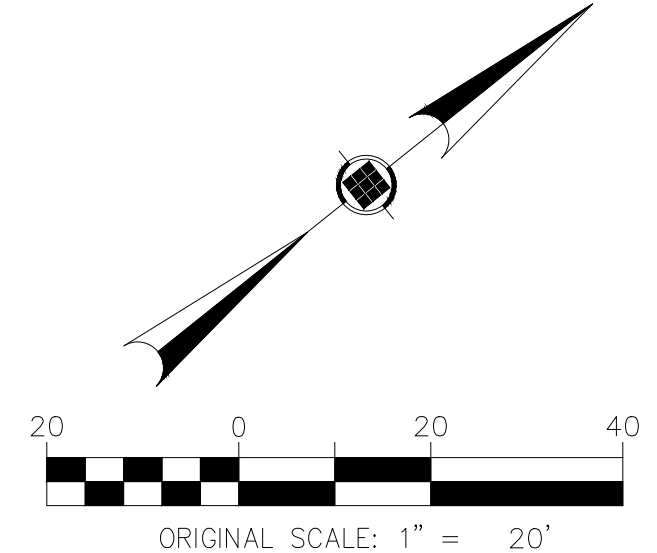
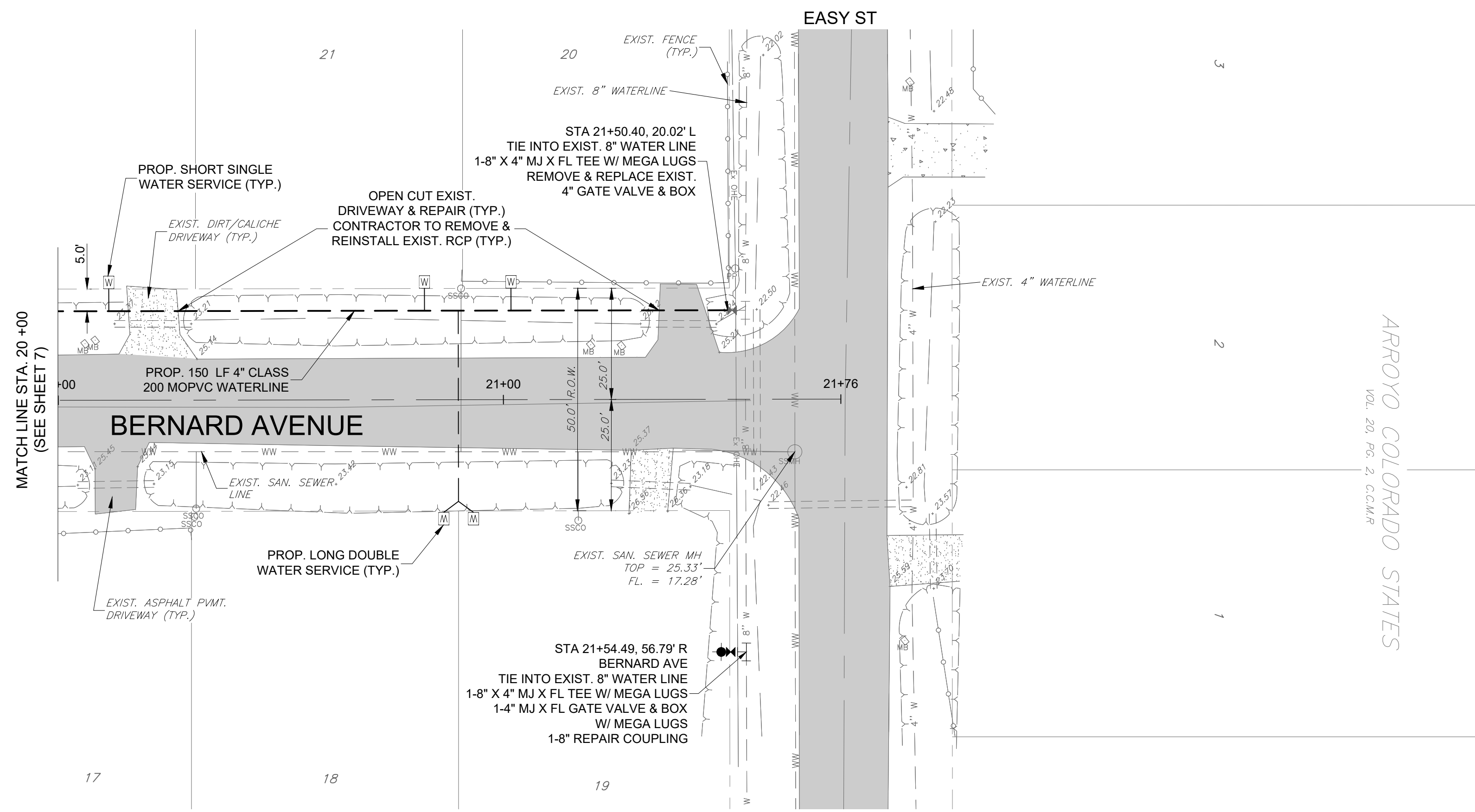
**EAST RIO HONDO WATER SUPPLY CORPORATION**  
 ARROYO COLORADO ESTATES WATER LINE UPGRADES  
 CAMERON COUNTY, TEXAS



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Project No.: 38611.001  
 Issued: 09/28/2021  
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 Sheet Title  
 BERNANRD AVE  
 STA 9+70 TO STA 20+00



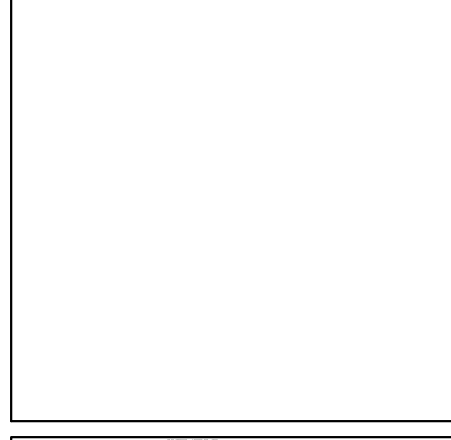
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⊕	GATE VALVE & BOX	— TPED	TRAFFIC SIGN
⊙	EXIST. WATER METER	— TRS	TRAFFIC SIGN OVERHEAD ELECTRIC
●	FIRE HYDRANT	— EX OHE	ELECTRIC
○	SANITARY CLEAN OUT	— WW	SAN. SEWER
⊕	POWER POLE	— 4"W	EXIST. WATER
◇	MAIL BOX	—	PROP. WATER
MB	PROP. WATER METER	---	EXIST. RCP
		■	ASPHALT PAVEMENT
		▨	CONCRETE
		▩	DIRT/CALICHE

**EAST RIO HONDO WATER SUPPLY CORPORATION**  
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 CAMERON COUNTY, TEXAS



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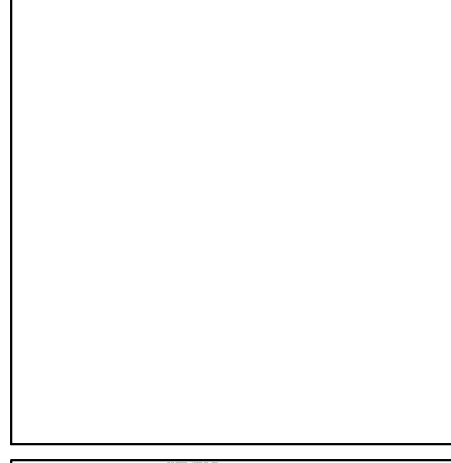
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Issued:	09/28/2021
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Sheet Title	BERNANRD AVE STA 20+00 TO STA 21+78
Sheet Number	8

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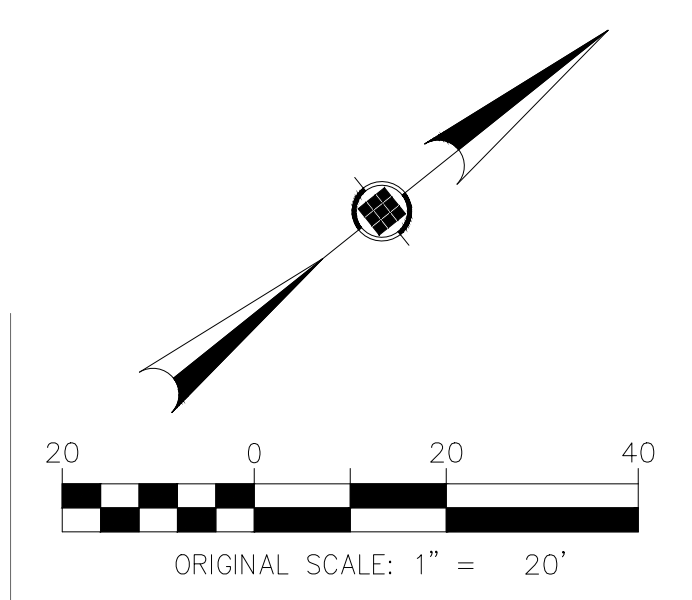




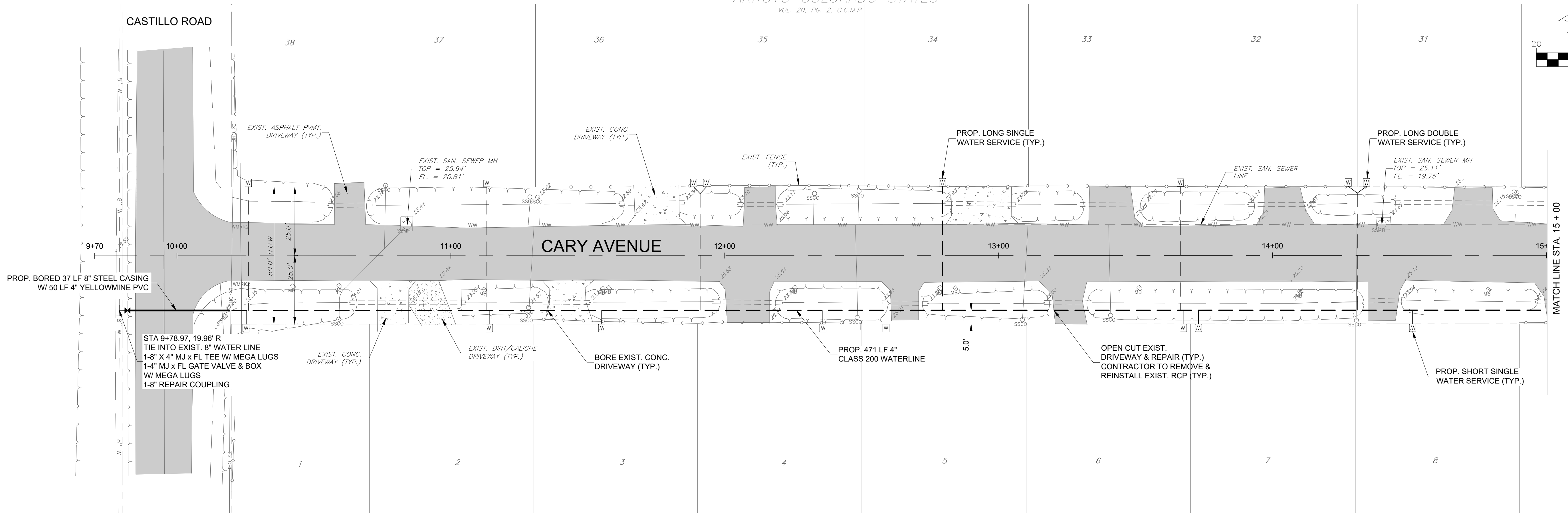
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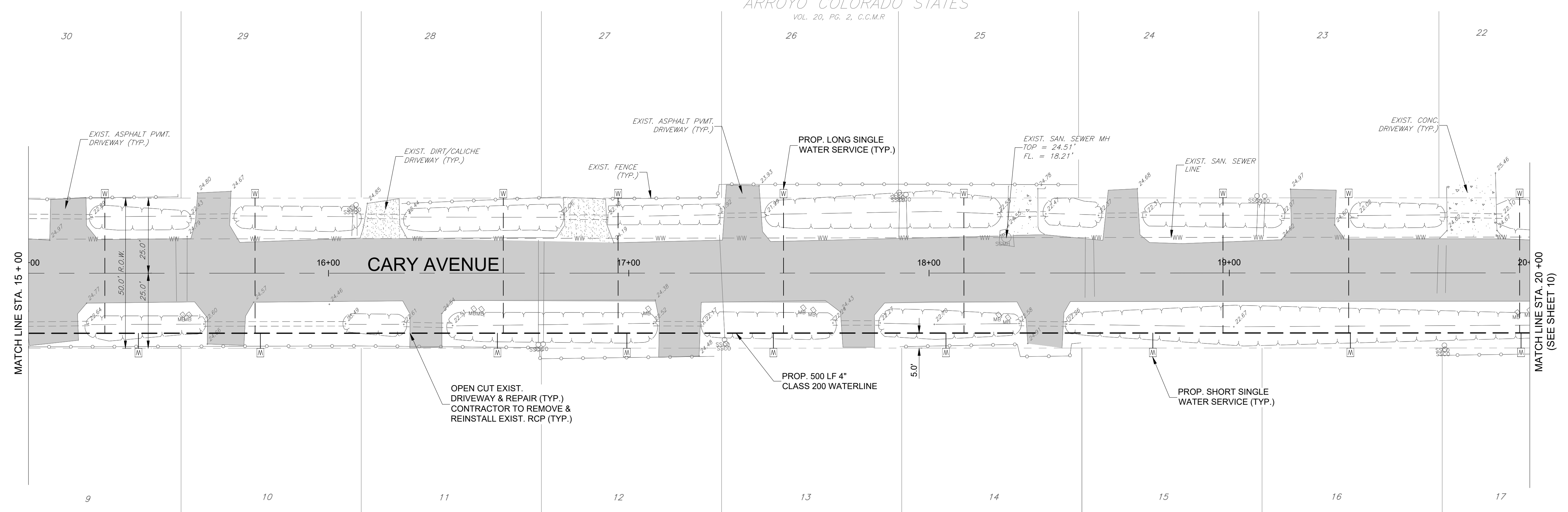
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Issued:	09/28/2021
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Sheet Title	CARY AVE STA 9+70 TO STA 20+00
Sheet Number	9



ARROYO COLORADO STATES  
 VOL. 20, PG. 2, C.C.M.R.



ARROYO COLORADO STATES  
 VOL. 20, PG. 2, C.C.M.R.

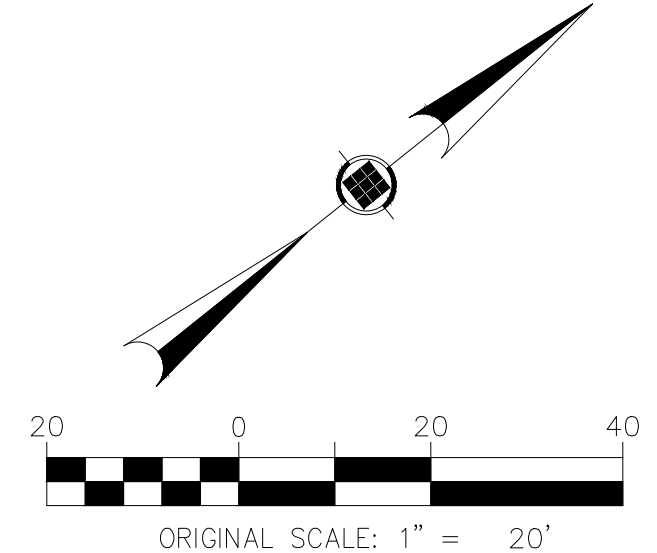
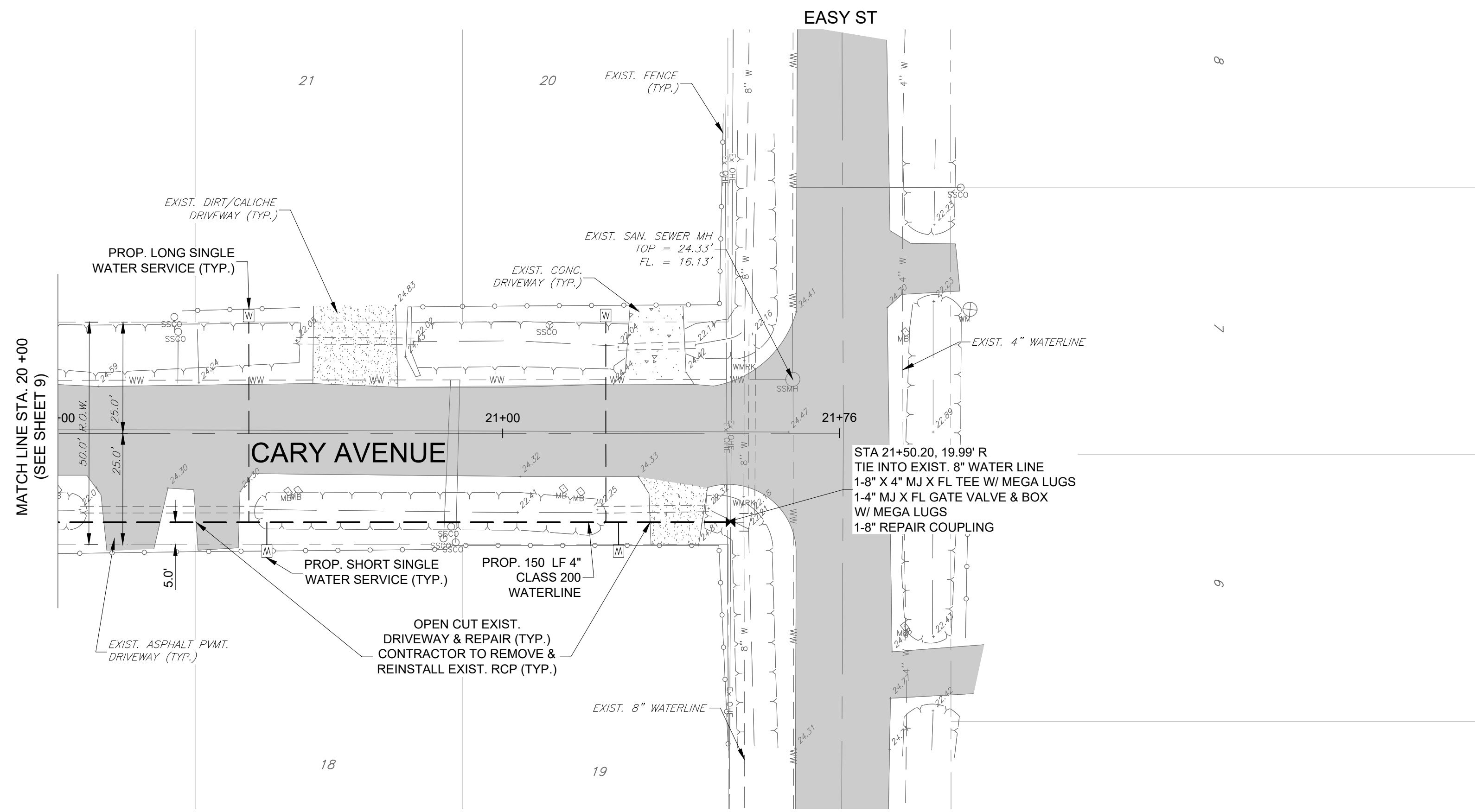


**LEGEND**

○ SSMH	SANITARY SEWER MANHOLE	— GW	GUY WIRE
⊕	GATE VALVE & BOX	— TPED	TRAFFIC SIGN
⊖	EXIST. WATER METER	— ITS	FENCE
⦿	FIRE HYDRANT	— EX OHE	TRAFFIC SIGN OVERHEAD ELECTRIC
○	SANITARY CLEAN OUT	— WW	SAN. SEWER
SSCO	POWER POLE	— 4\"W	EXIST. WATER
PP	MAIL BOX	—	PROP. WATER
MB	PROP. WATER METER	—	EXIST. RCP
W		■	ASPHALT PAVEMENT
		■	CONCRETE
		■	DIRT/CALICHE

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**LEGEND**

○ SSMH	SANITARY SEWER MANHOLE	— GW	GUY WIRE
○ GVB	GATE VALVE & BOX	— TPED	TRAFFIC SIGN
○ WM	EXIST. WATER METER	— FENCE	TRAFFIC SIGN
● FH	FIRE HYDRANT	— EX OHE	OVERHEAD ELECTRIC
○ SSCO	SANITARY CLEAN OUT	— WW	SAN. SEWER
○ PP	POWER POLE	— 4" W	EXIST. WATER
◇ MB	MAIL BOX	— — —	PROP. WATER
◻ WM	PROP. WATER METER	— — —	EXIST. RCP
		■	ASPHALT PAVEMENT
		■	CONCRETE
		■	DIRT/CALICHE

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 ARROYO COLORADO ESTATES WATER LINE UPGRADES  
 CAMERON COUNTY, TEXAS



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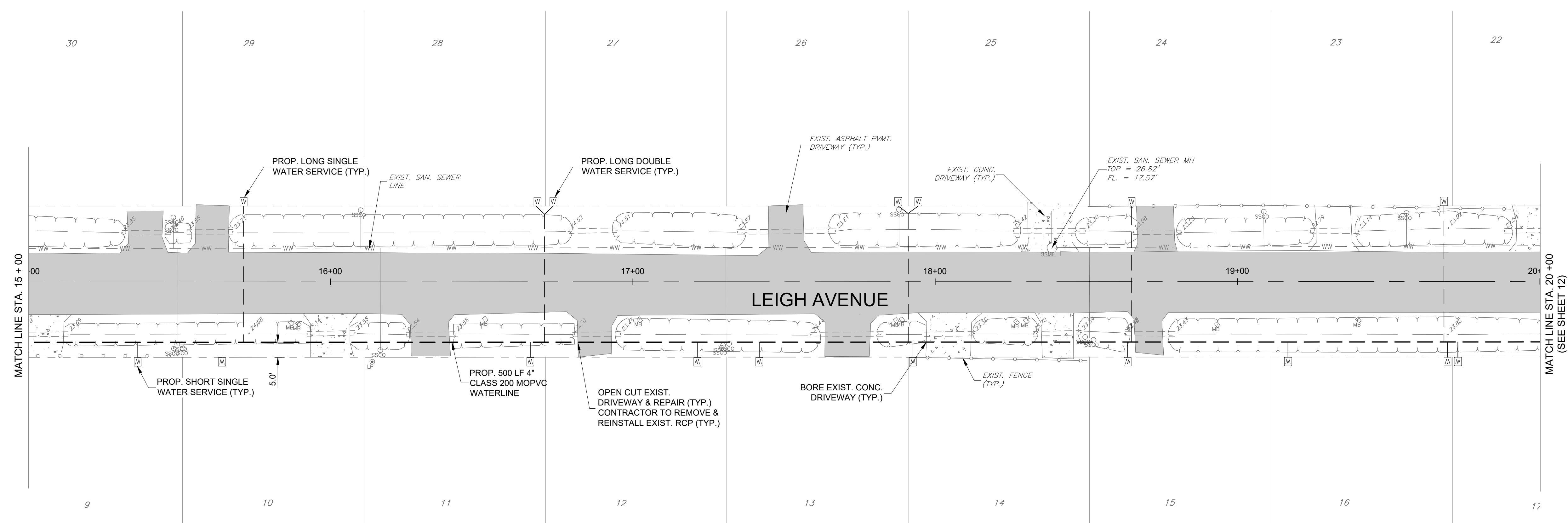
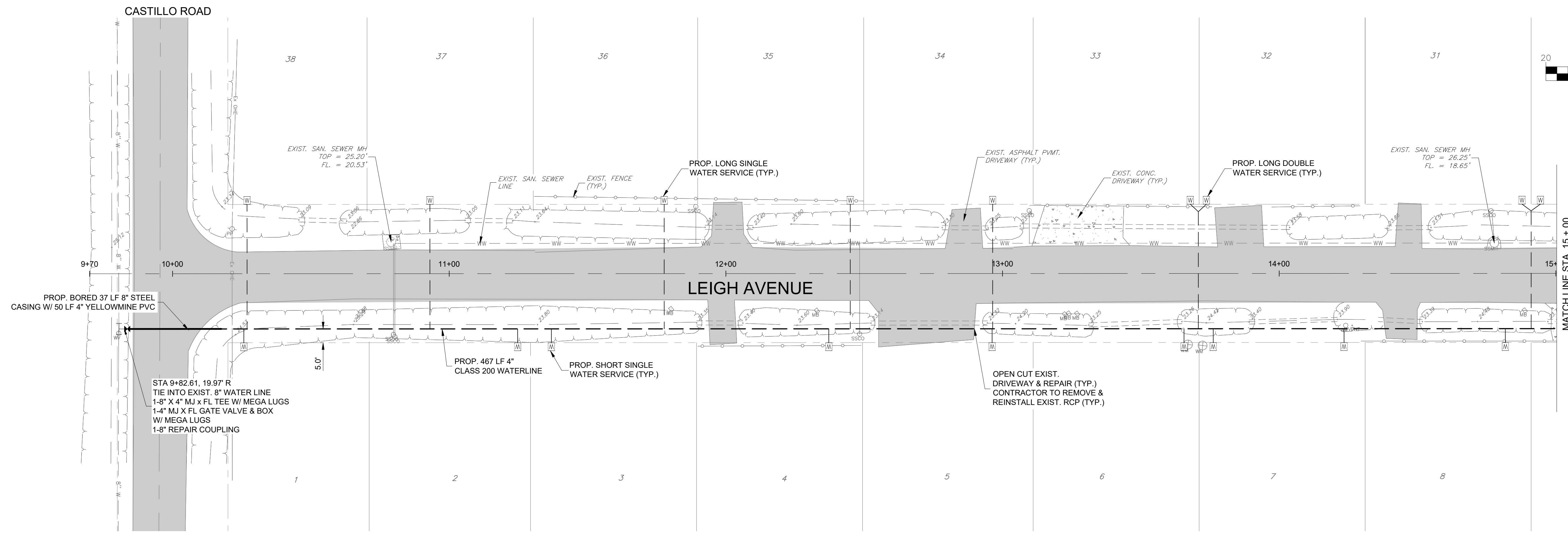
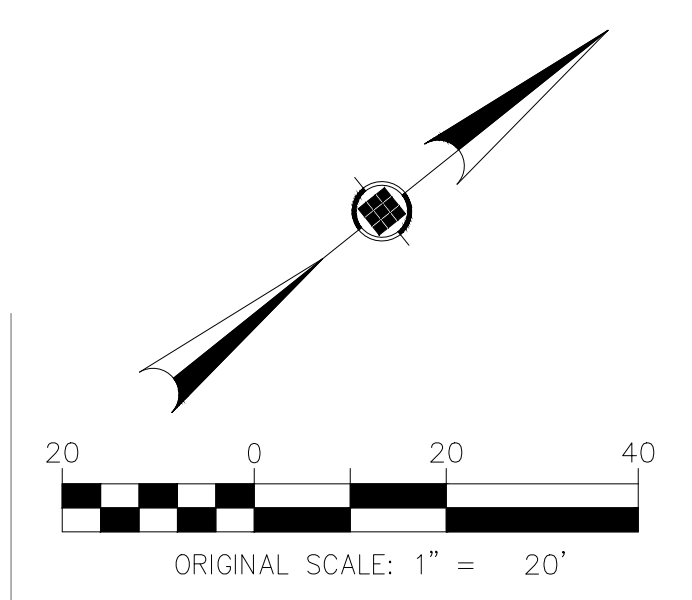


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**LEGEND**

○ SSMH	SANITARY SEWER MANHOLE	— GW	GUY WIRE
⊕	GATE VALVE & BOX	TPED	TRAFFIC SIGN
⊕ WM	EXIST. WATER METER	— FENCE	FENCE
● FH	FIRE HYDRANT	— TRAFFIC SIGN OVERHEAD ELECTRIC	TRAFFIC SIGN OVERHEAD ELECTRIC
○ SSCO	SANITARY CLEAN OUT	— EX OHE	EXIST. WATER
⊕ PP	POWER POLE	— 4\" W	PROP. WATER
◇ MB	MAIL BOX	—	EXIST. RCP
⊕ WM	PROP. WATER METER	—	ASPHALT PAVEMENT
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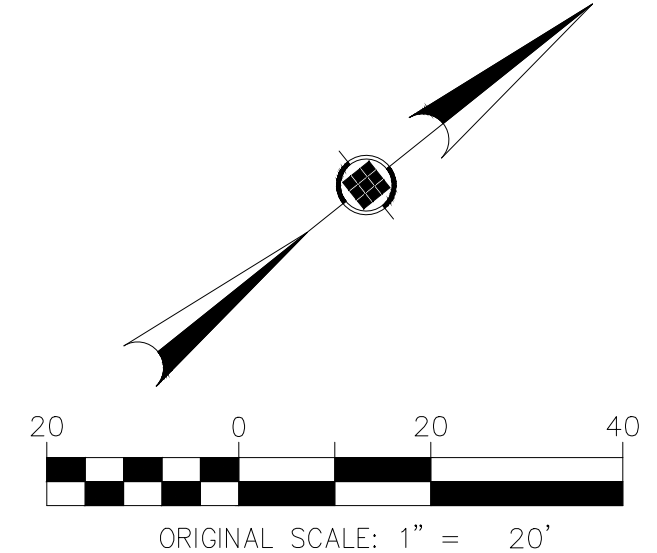
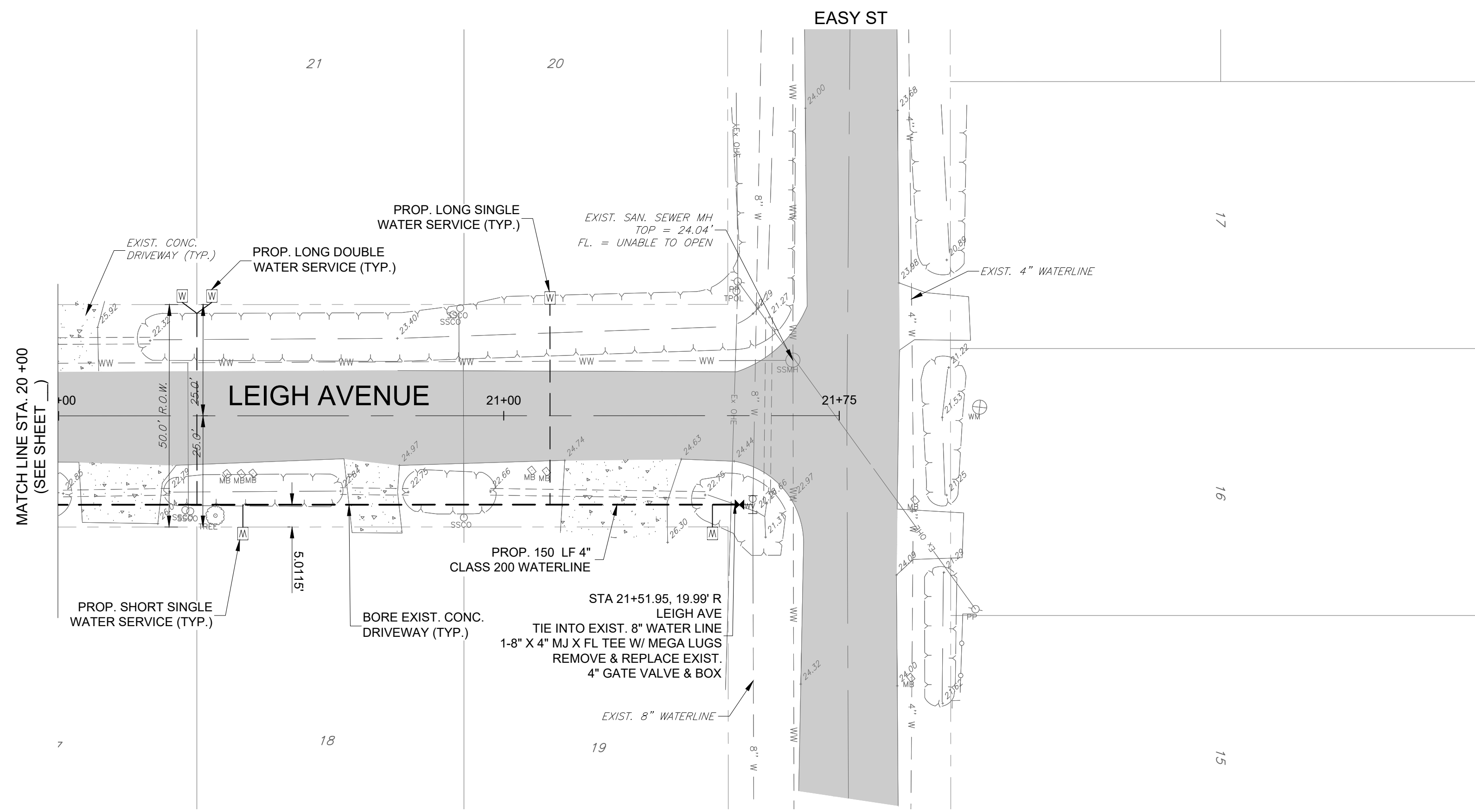
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 Sheet Title  
 LEIGH AVE  
 STA 9+70 TO STA 20+00



**LEGEND**

SS MH	SANITARY SEWER MANHOLE	GW	GUY WIRE
WB	GATE VALVE & BOX	TS	TRAFFIC SIGN
WM	EXIST. WATER METER	F	FENCE
FH	FIRE HYDRANT	TS	TRAFFIC SIGN
SSCO	SANITARY CLEAN OUT	EX OHE	OVERHEAD ELECTRIC
PP	POWER POLE	WW	SAN. SEWER
MB	MAIL BOX	4\"/>	
W	PROP. WATER METER	4\"/>	
		---	EXIST. RCP
		---	ASPHALT PAVEMENT
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Revision No.	Date	Description

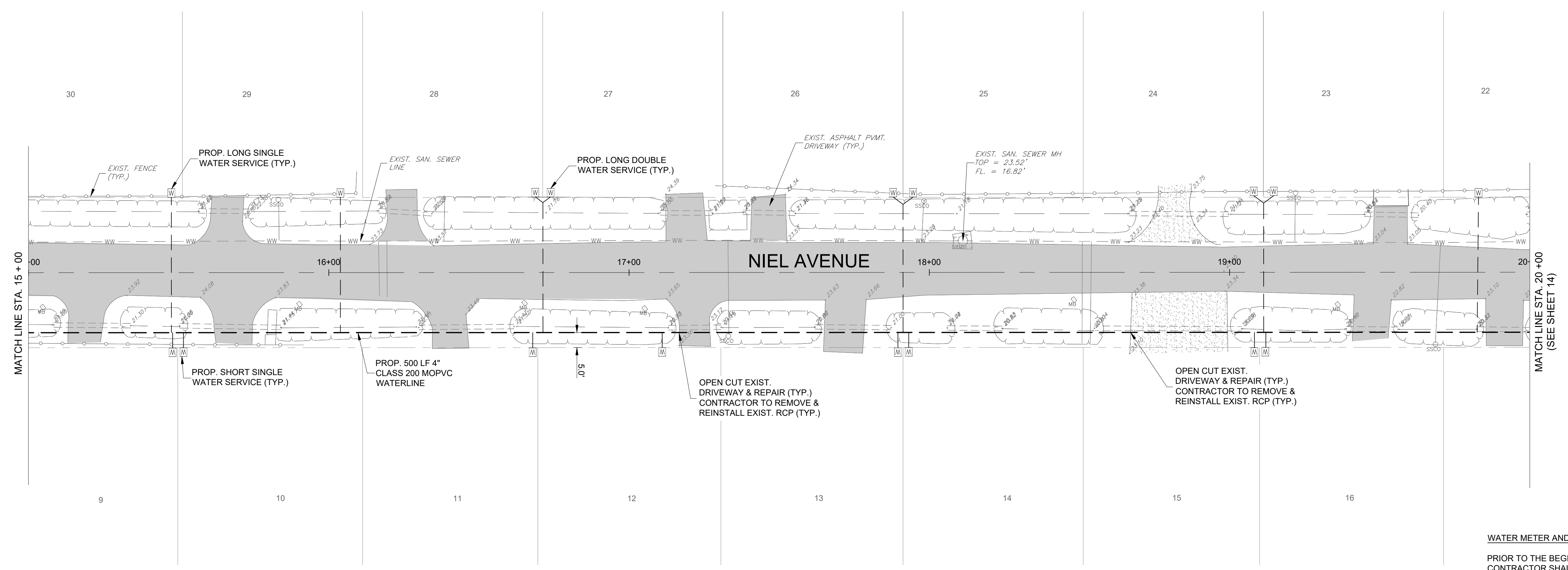
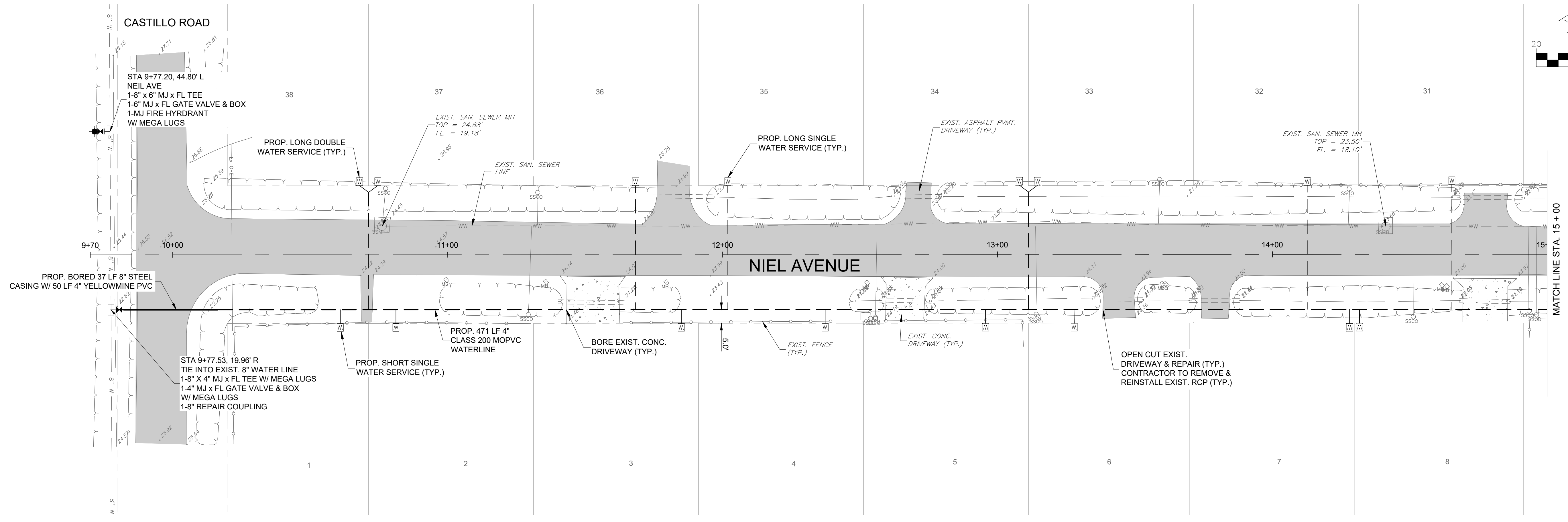
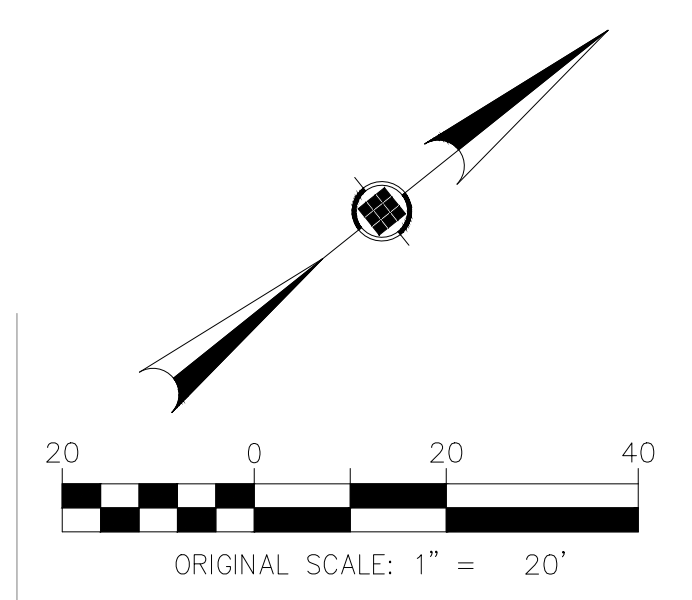


Project No.: 38611.001  
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 Checked By: JWC  
 Scale: AS NOTED  
 Sheet Title  
 LEIGH AVE  
 STA 20+00 TO STA 21+78

**WATER METER AND YARDLINE NOTE:**  
 PRIOR TO THE BEGINNING OF WORK ON EACH RESIDENTIAL SITE, THE CONTRACTOR SHALL COORDINATE WITH E.R.H.W.S.C. AND THE INSPECTOR TO VERIFY THE BEST LOCATION FOR THE PROPOSED METER AND YARDLINE. ONCE THE BEST ROUTE IS DETERMINED BY THE PARTIES, THE CONTRACTOR SHALL MARK THE LOCATION WITH PAINT.

Sep. 28, 2021 - 2:36pm

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**LEGEND**

SSMH	SANITARY SEWER MANHOLE	GW	GUY WIRE
WB	GATE VALVE & BOX	TPED	TRAFFIC SIGN
WM	EXIST. WATER METER	FFS	FENCE
FH	FIRE HYDRANT	TR	TRAFFIC SIGN
SSCO	SANITARY CLEAN OUT	EX OHE	OVERHEAD ELECTRIC
PP	POWER POLE	WW	SAN. SEWER
MB	MAIL BOX	4"W	EXIST. WATER
WM	PROP. WATER METER	---	PROP. WATER
		---	EXIST. RCP
		---	ASPHALT PAVEMENT
		---	CONCRETE
		---	DIRT/CALICHE

**WATER METER AND YARDLINE NOTE:**  
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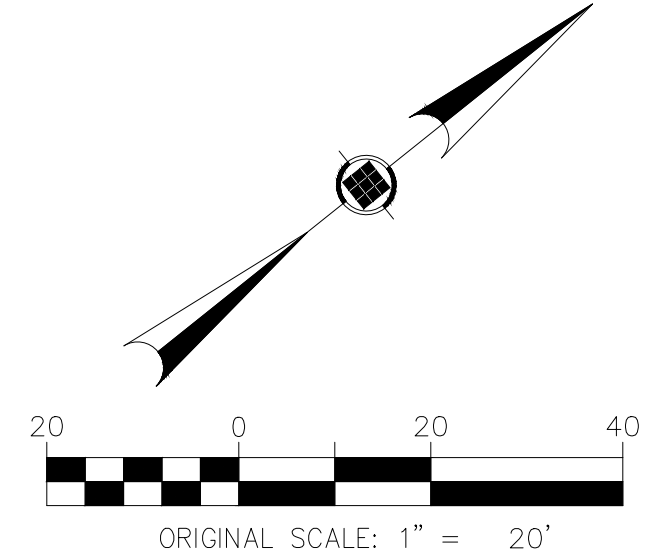
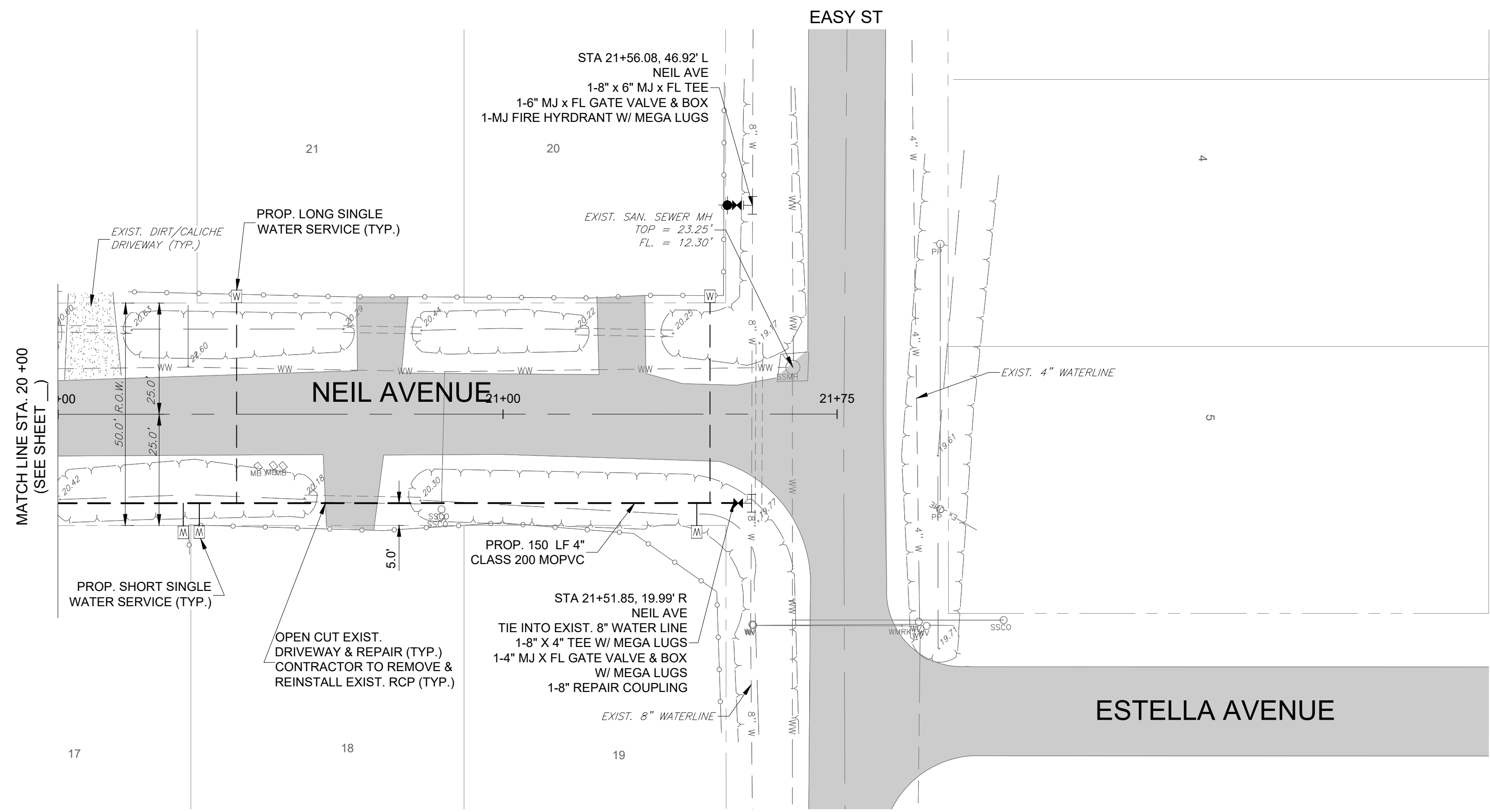
**EAST RIO HONDO WATER SUPPLY CORPORATION**  
 ARROYO COLORADO ESTATES WATER LINE UPGRADES  
 CAMERON COUNTY, TEXAS



Revision No.	Date	Description



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 NEIL AVE  
 STA 9+70 TO STA 20+00



**LEGEND**

○ SSMH	SANITARY SEWER MANHOLE	— GW	GUY WIRE
⊕	GATE VALVE & BOX	□ TPED	TRAFFIC SIGN
⊕ WM	EXIST. WATER METER	— FENCE	FENCE
● FH	FIRE HYDRANT	— TRS	TRAFFIC SIGN OVERHEAD ELECTRIC
○ SSCO	SANITARY CLEAN OUT	— EX OHE	OVERHEAD ELECTRIC
⊕ PP	POWER POLE	— WW	SAN. SEWER
◇ MB	MAIL BOX	— 4"W	EXIST. WATER
⊕ MB	PROP. WATER METER	---	PROP. WATER
		---	EXIST. RCP
		---	ASPHALT PAVEMENT
		---	CONCRETE
		---	DIRT/CALICHE

**EAST RIO HONDO WATER SUPPLY CORPORATION**  
ARROYO COLORADO ESTATES WATER LINE UPGRADES  
CAMERON COUNTY, TEXAS



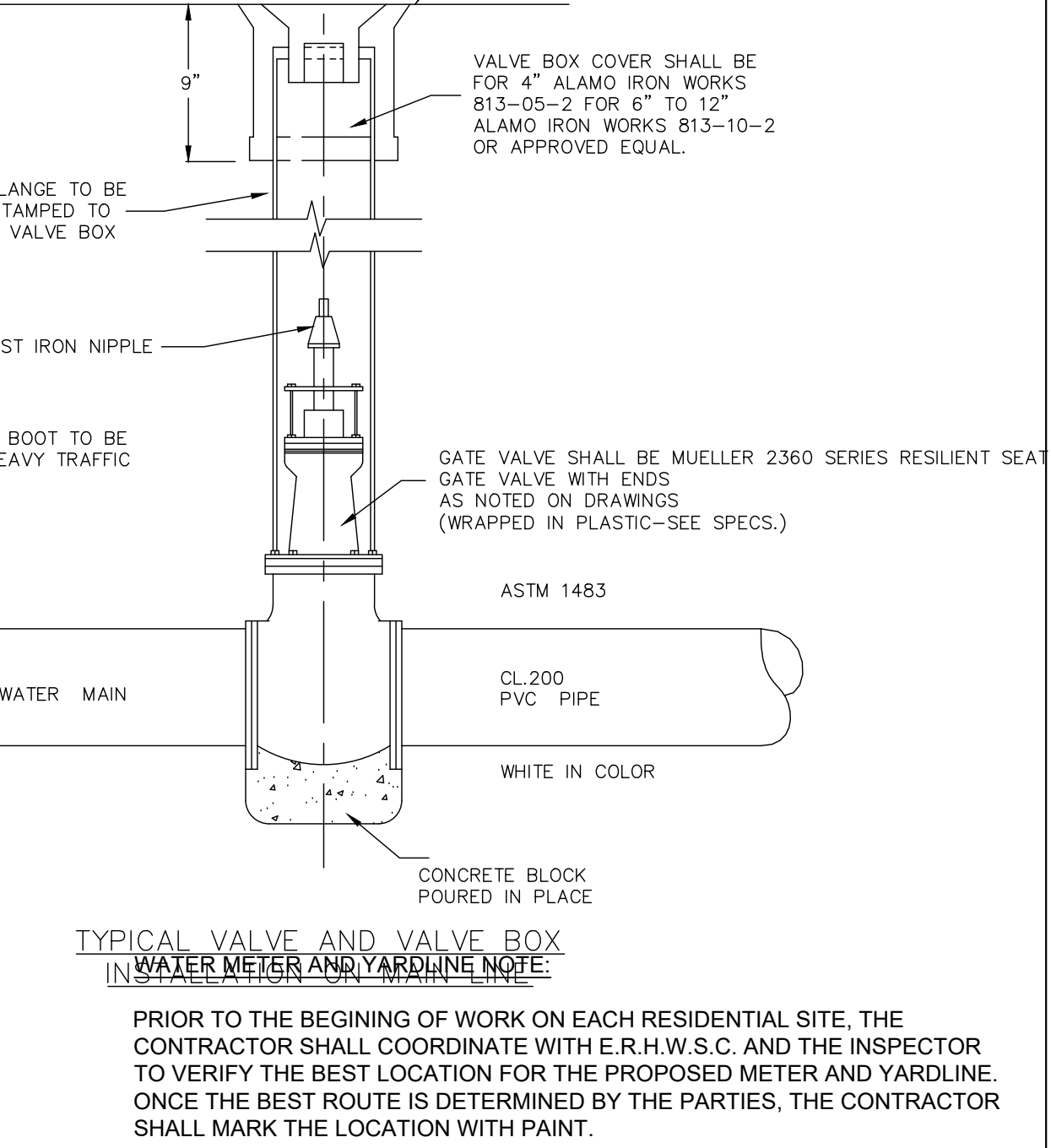
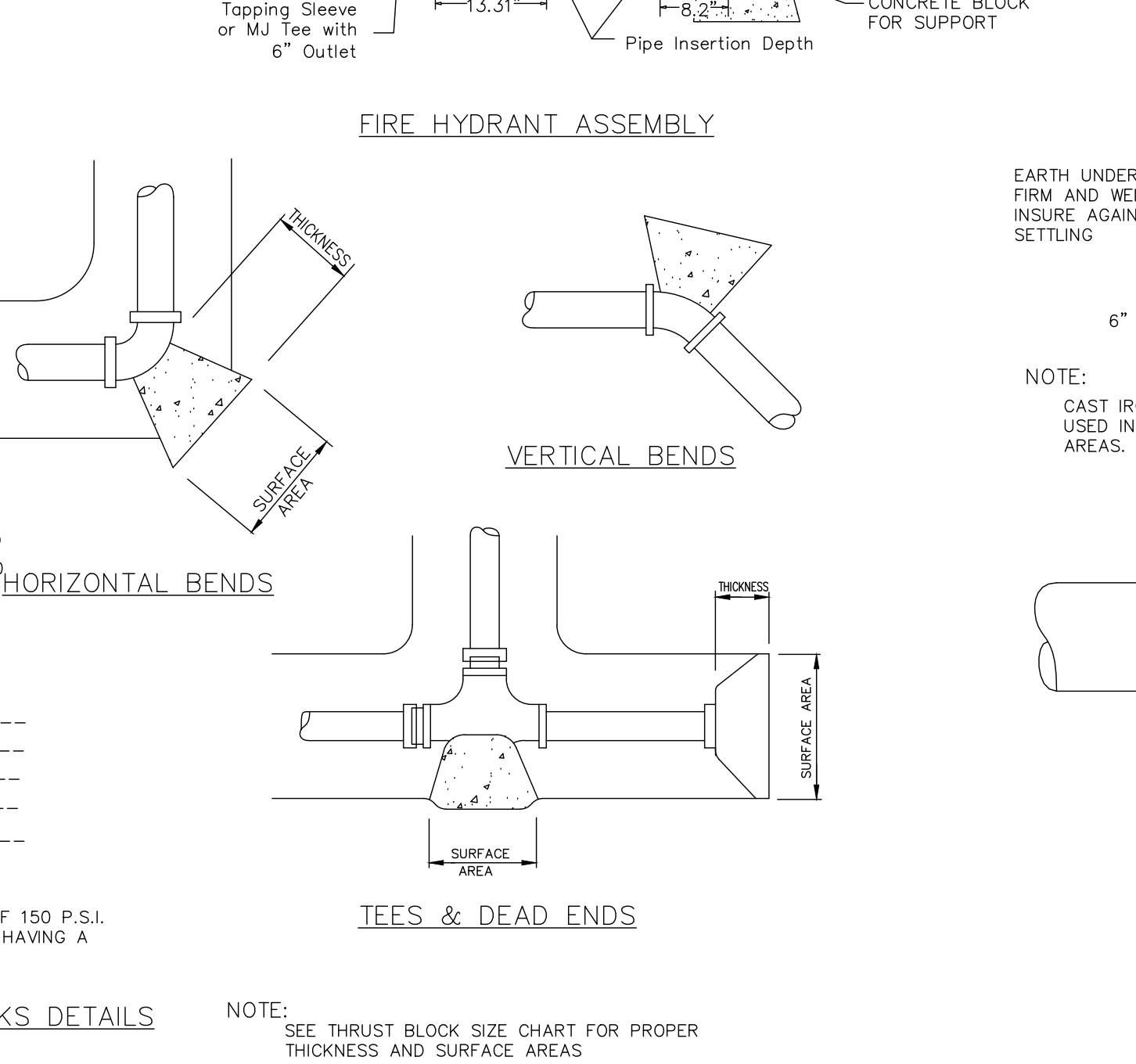
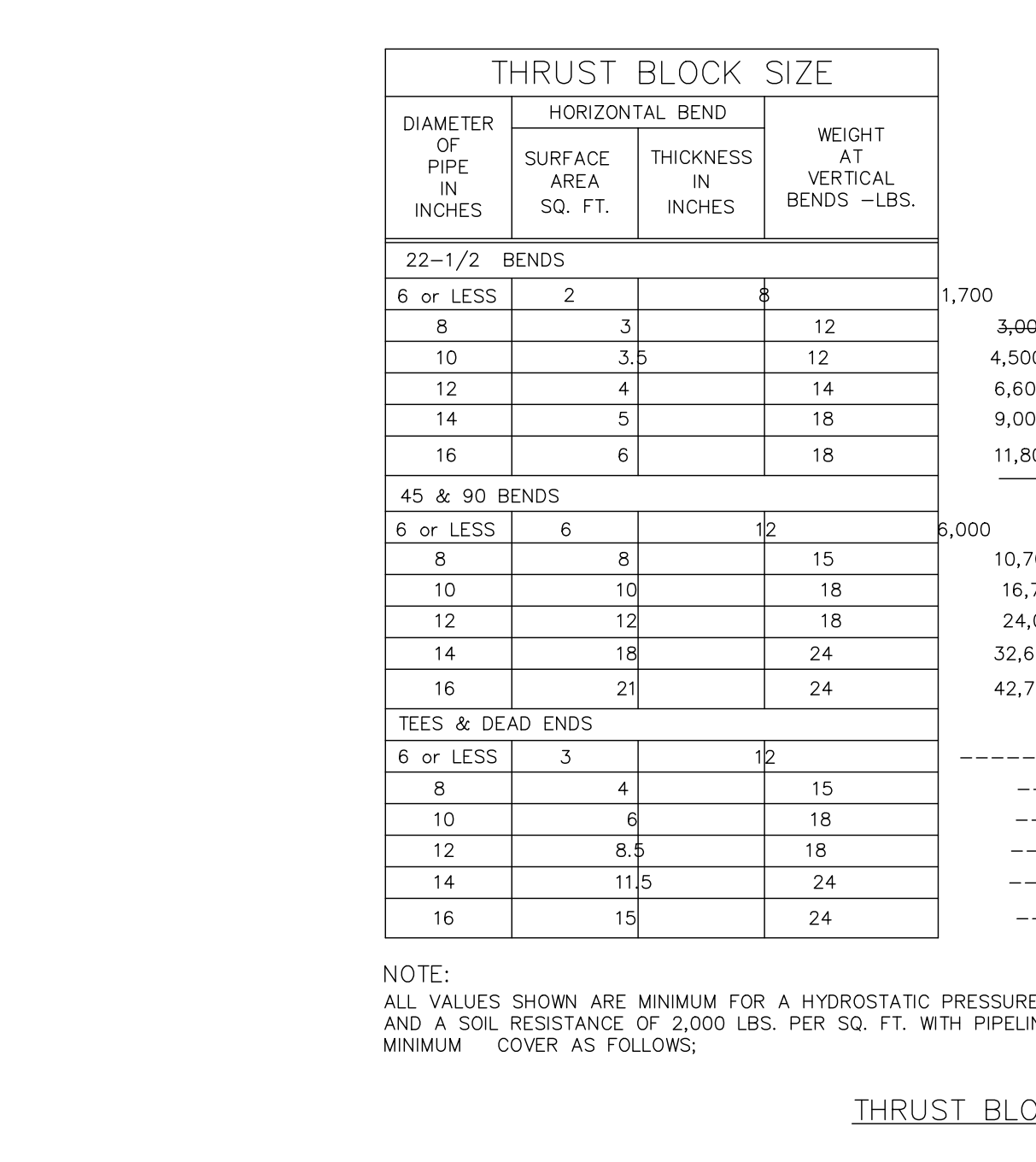
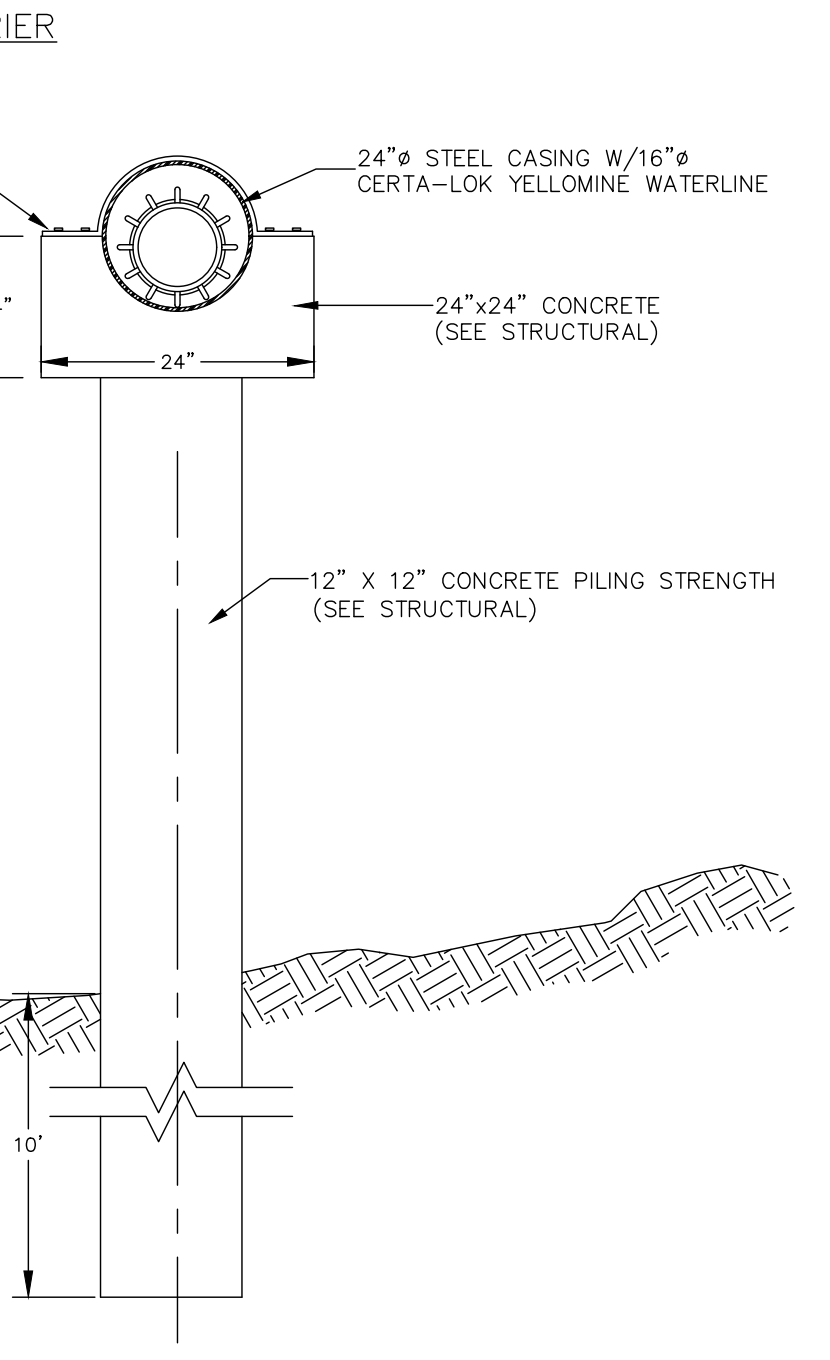
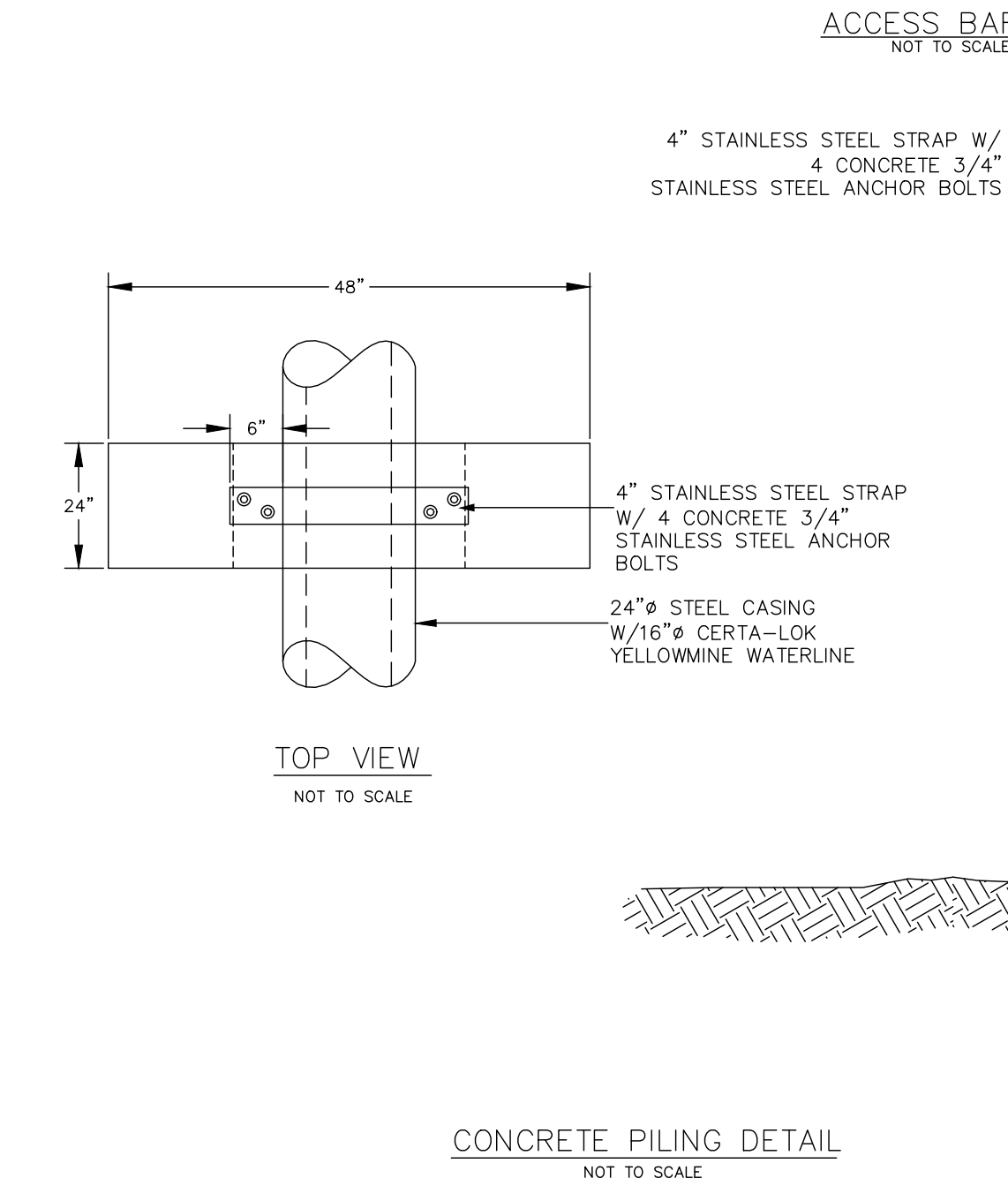
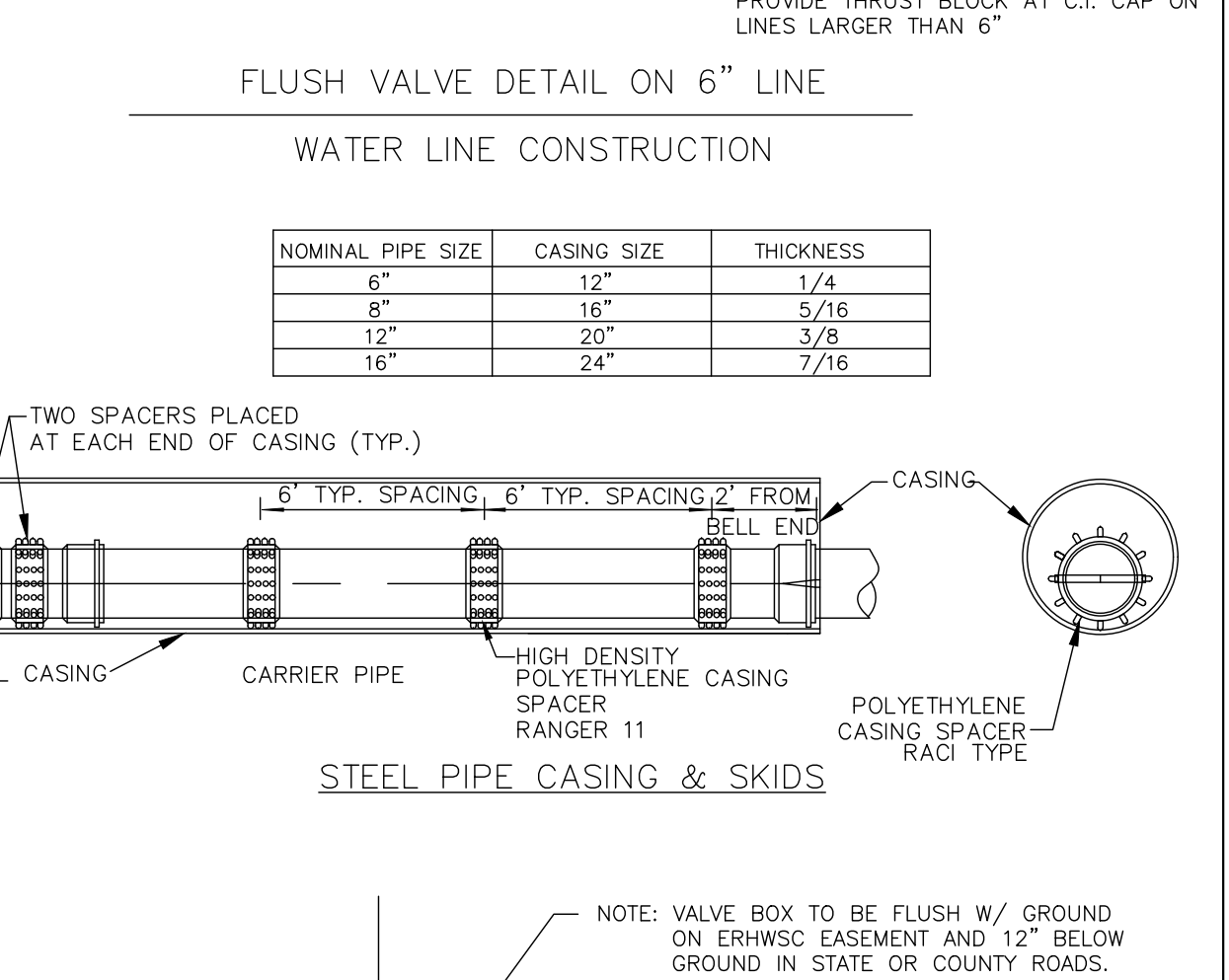
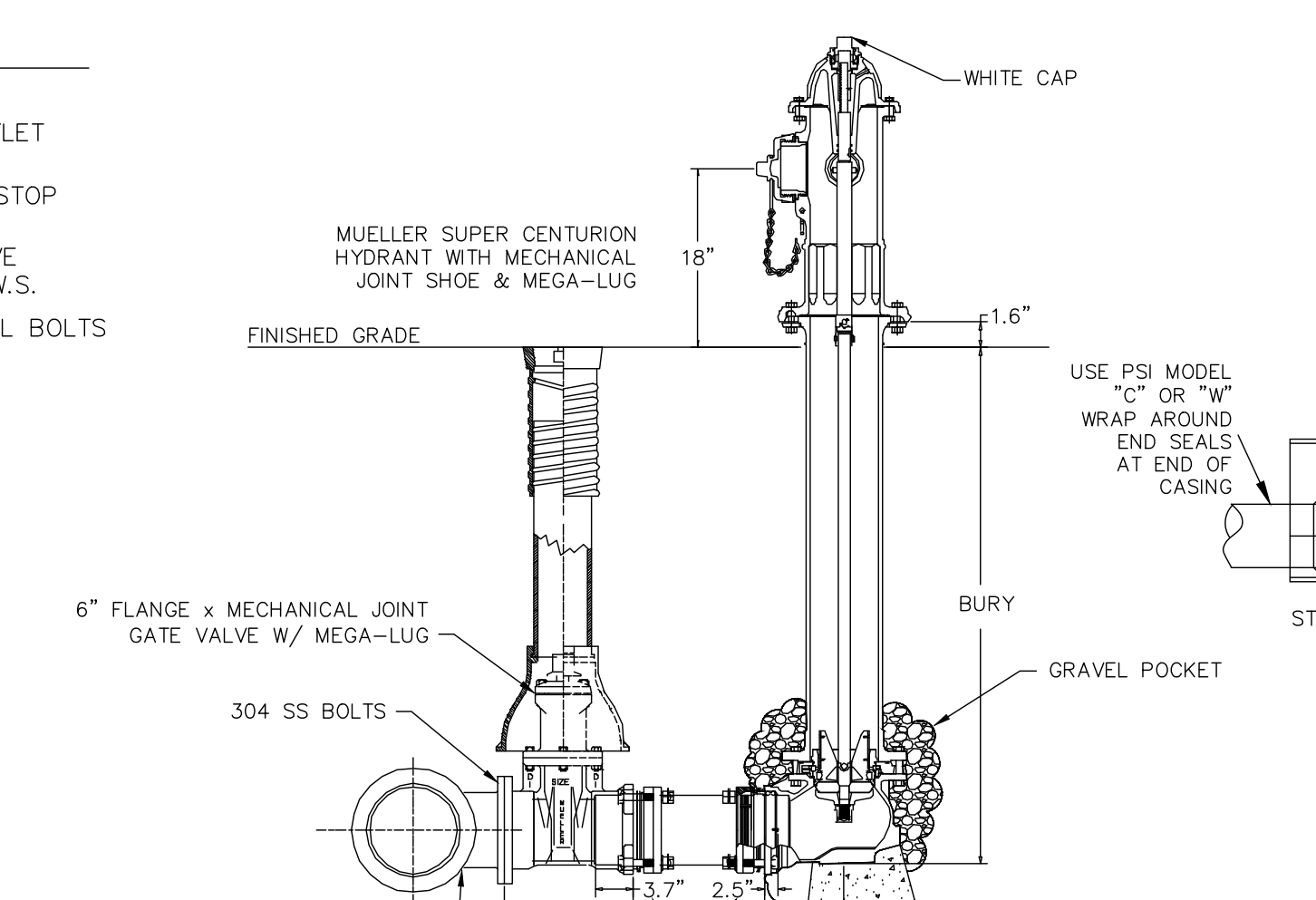
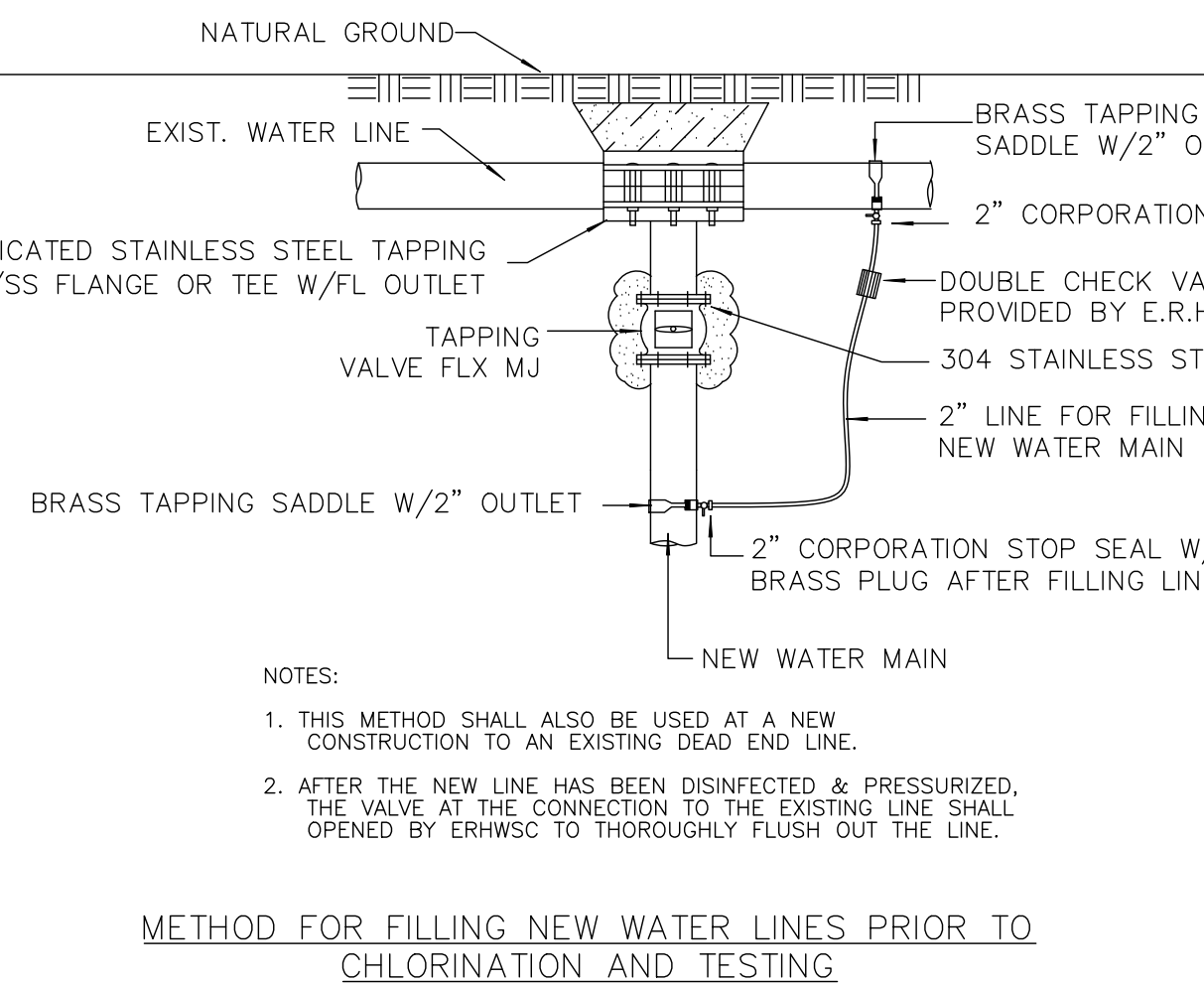
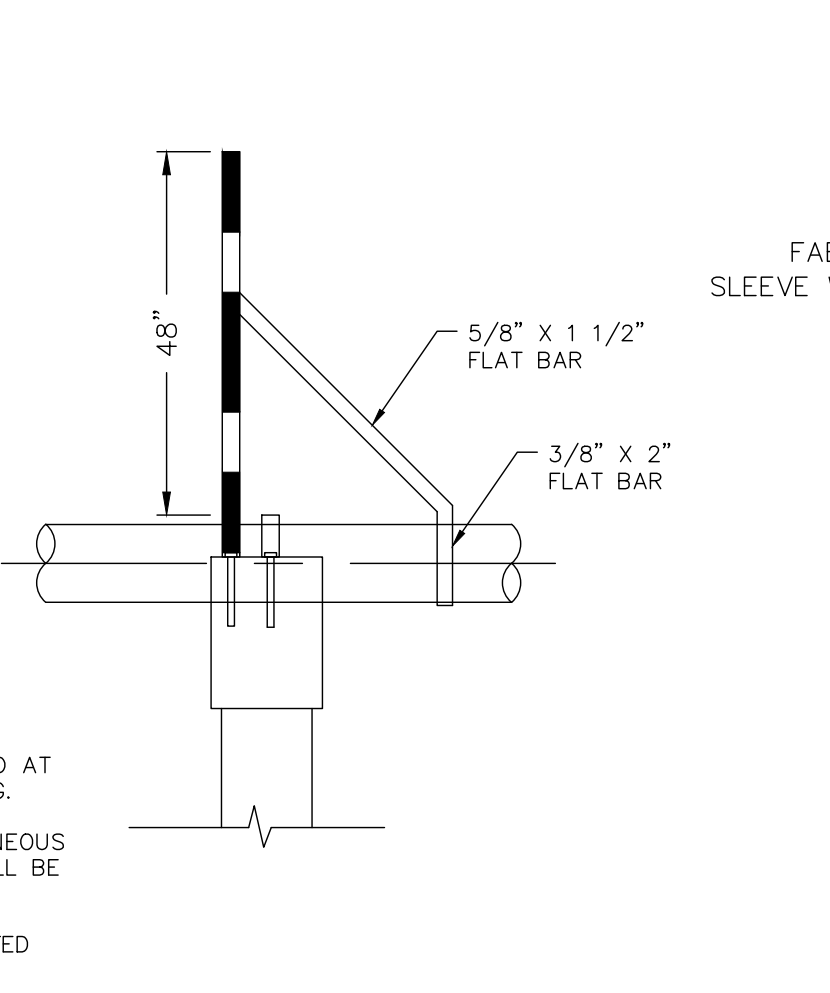
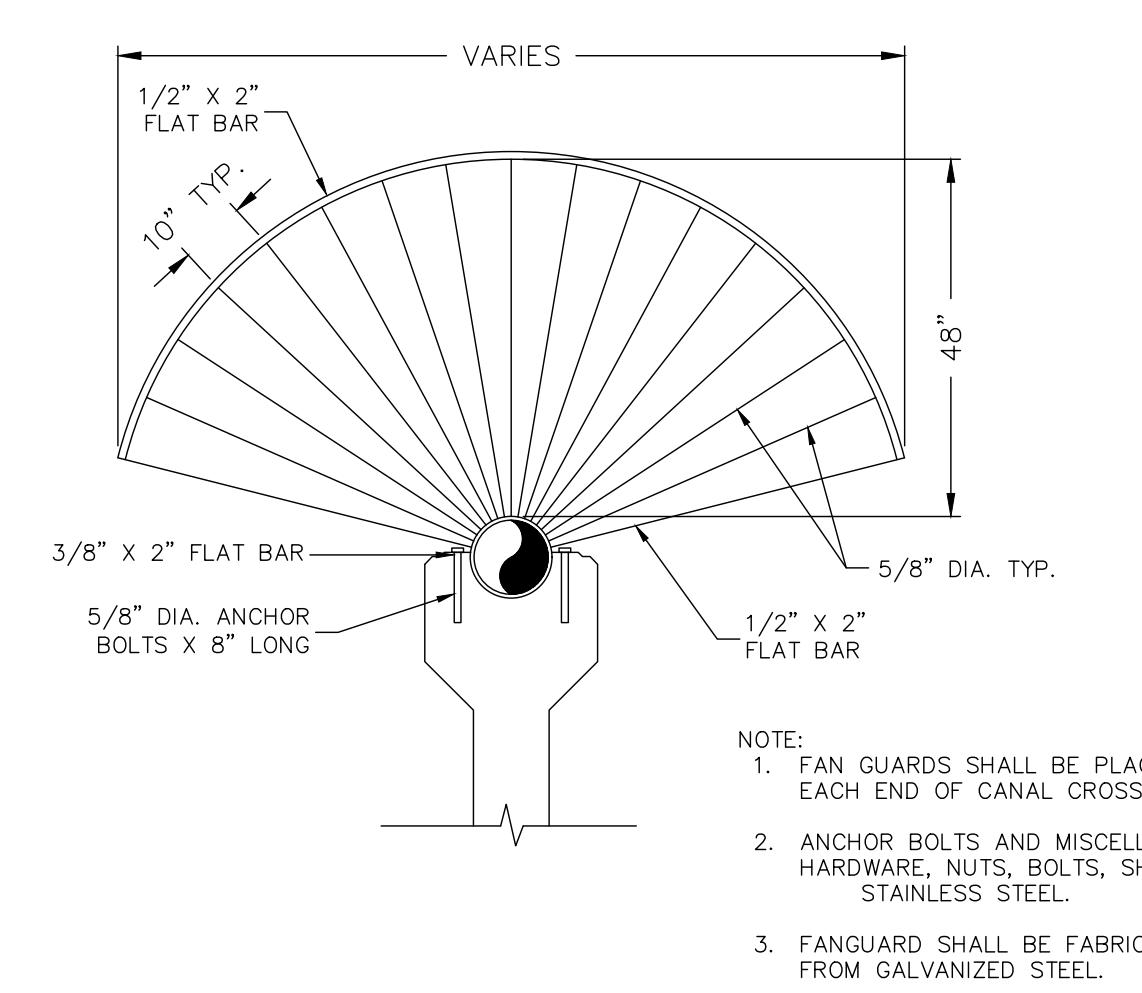
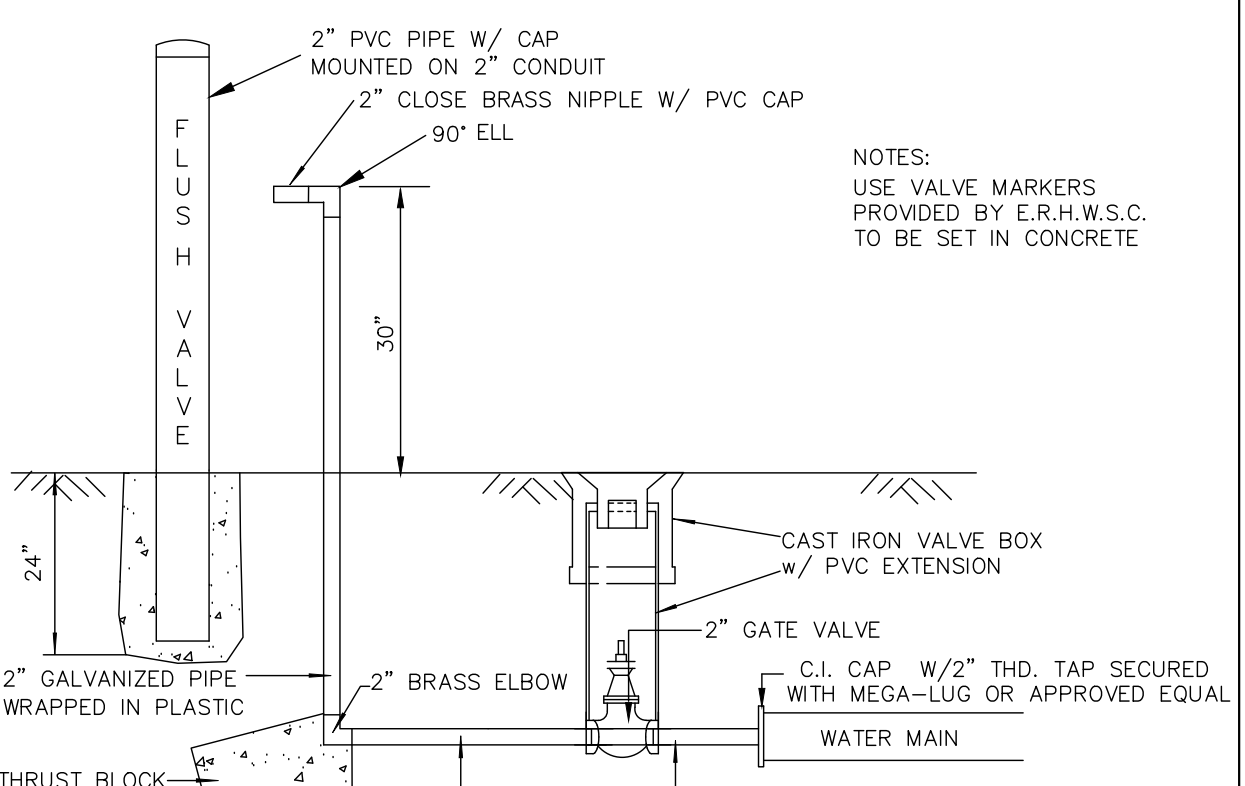
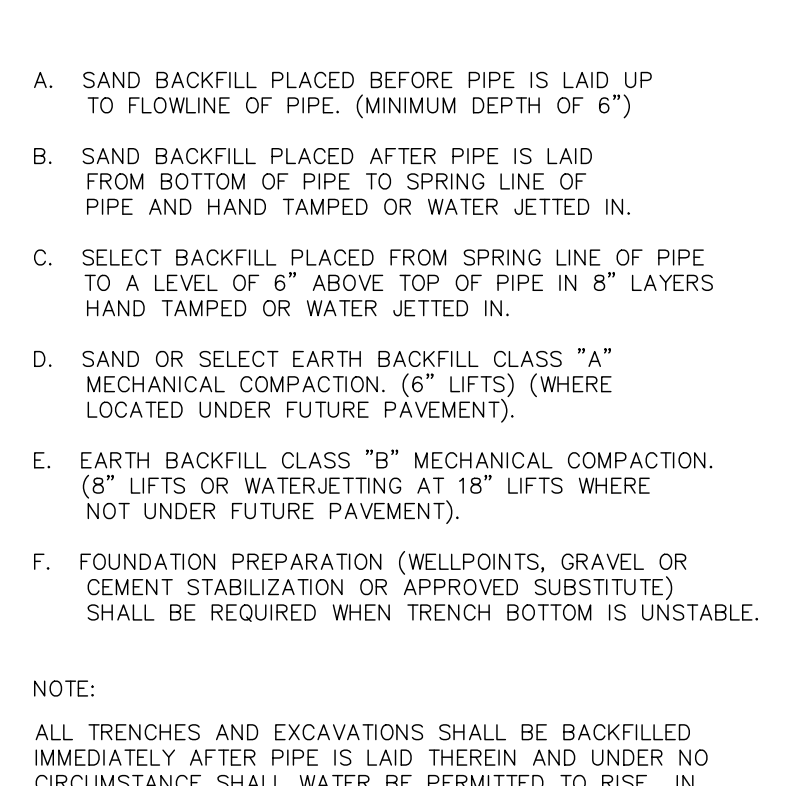
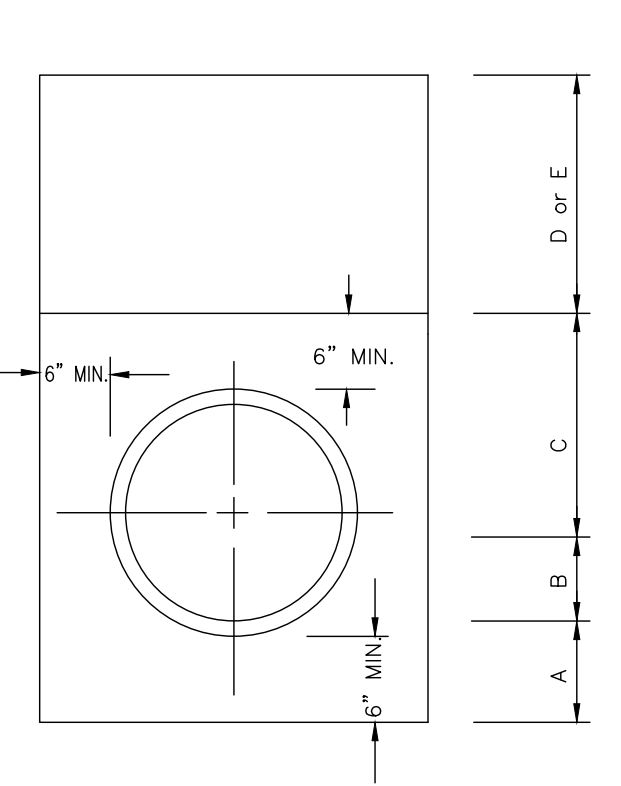
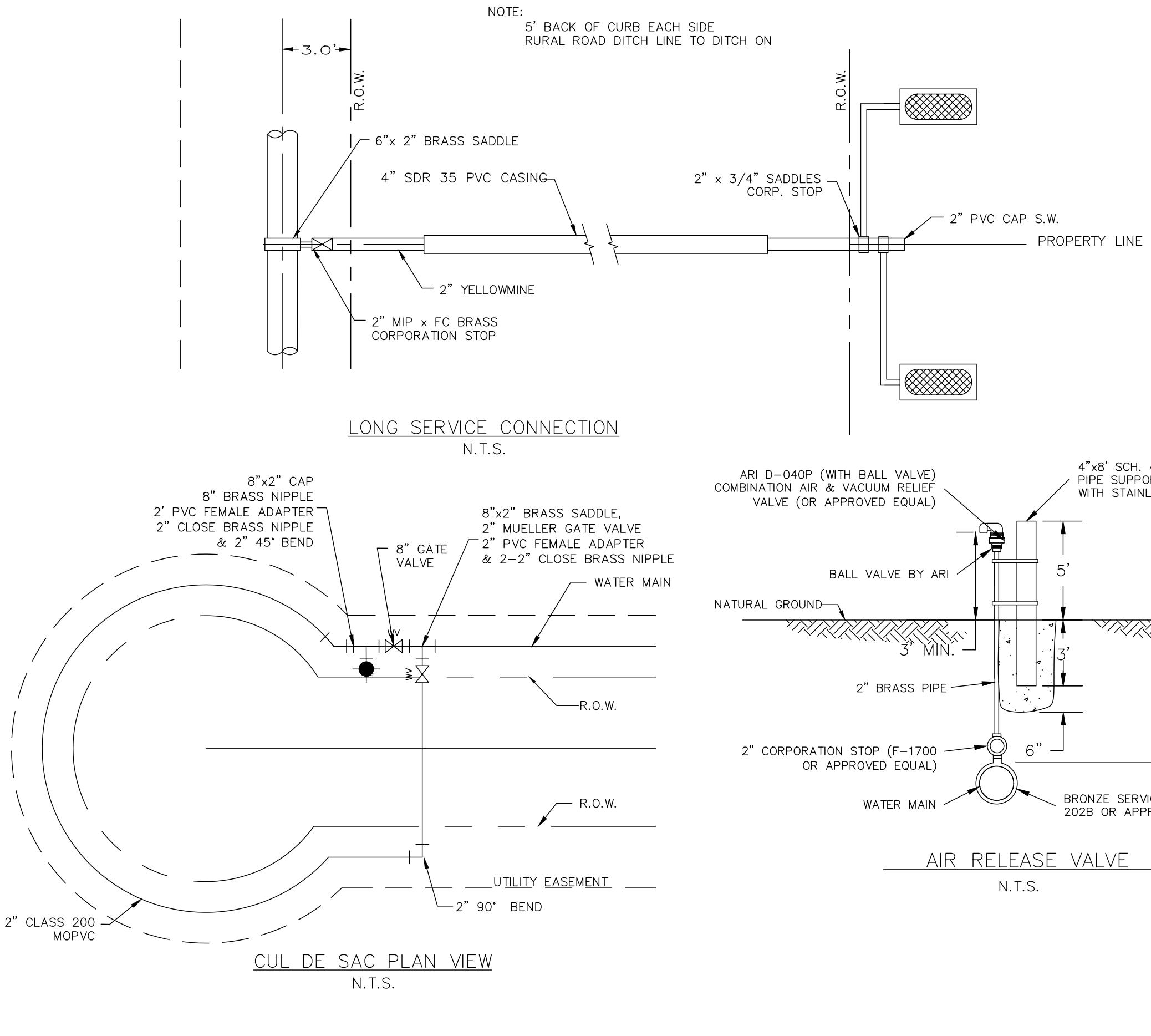
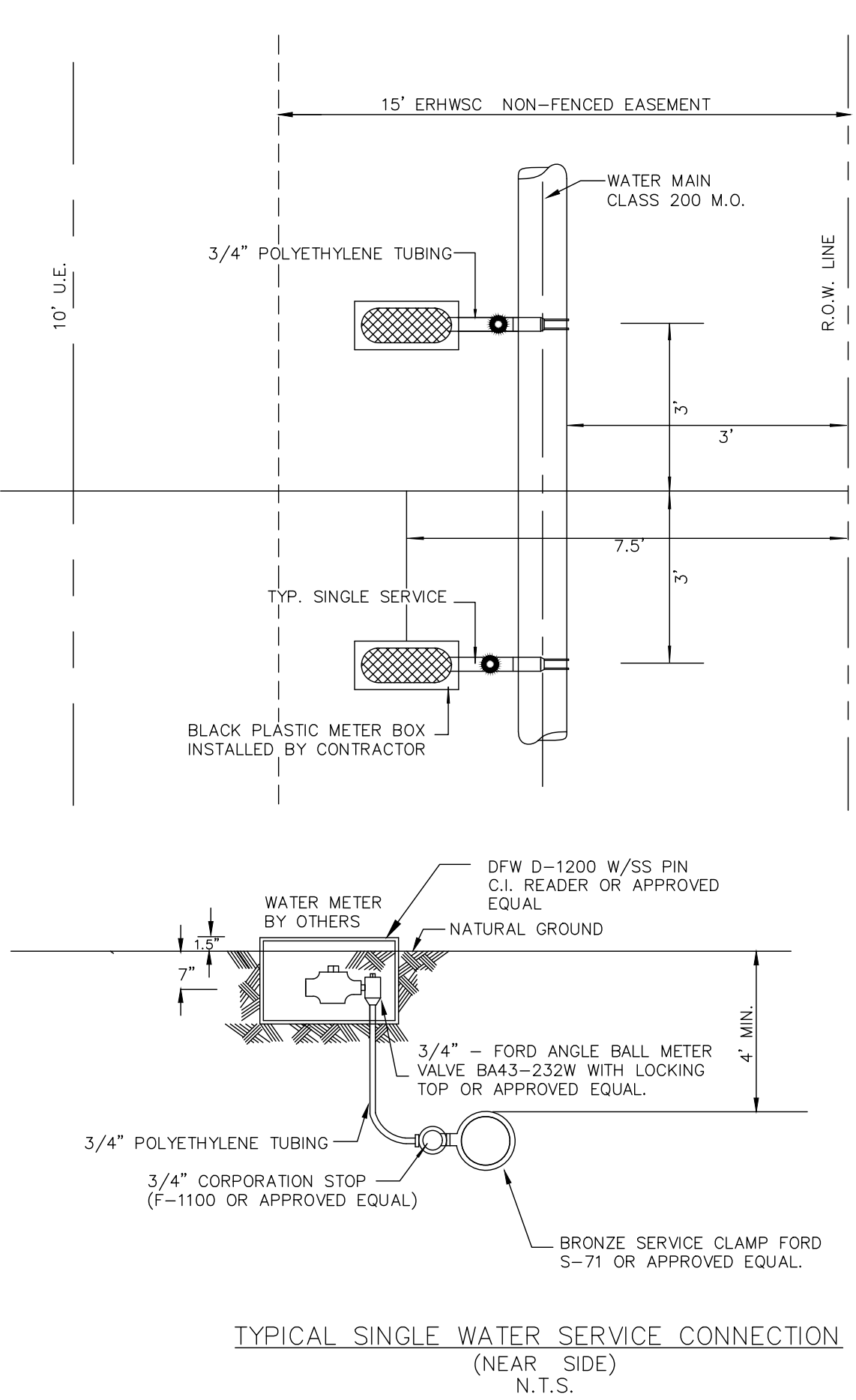
Revision No.	Date	Description



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 Scale: AS NOTED  
 Sheet Title  
 NEIL AVE  
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**EAST RIO HONDO WATER SUPPLY CORPORATION**  
ARROYO COLORADO ESTATES WATER LINE UPGRADES  
CAMERON COUNTY, TEXAS

**HALFF**  
1075 BARREDES LINE ROAD, SUITE B  
BROWNSVILLE, TEXAS 77820  
TELEPHONS ENGINEERING FIRM #312

Revision No.	Date	Description

Project No.: 38611.001  
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Sheet Title

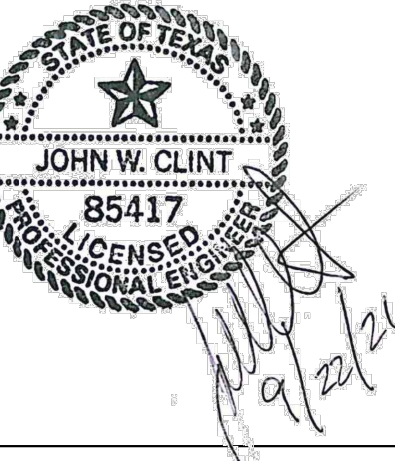
STATE OF TEXAS  
LICENSED PROFESSIONAL ENGINEER  
85417  
JOHN W. CLINT  
9/21/21

Project No.: 38611.001  
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Drawn By: JG  
Checked By: JWC  
Scale: AS NOTED  
Sheet Title

**WATERLINE DETAILS**

15  
Sheet Number

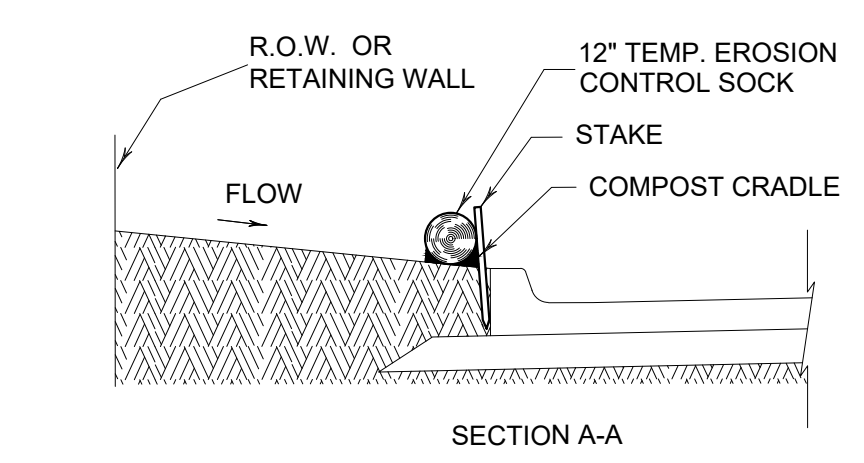
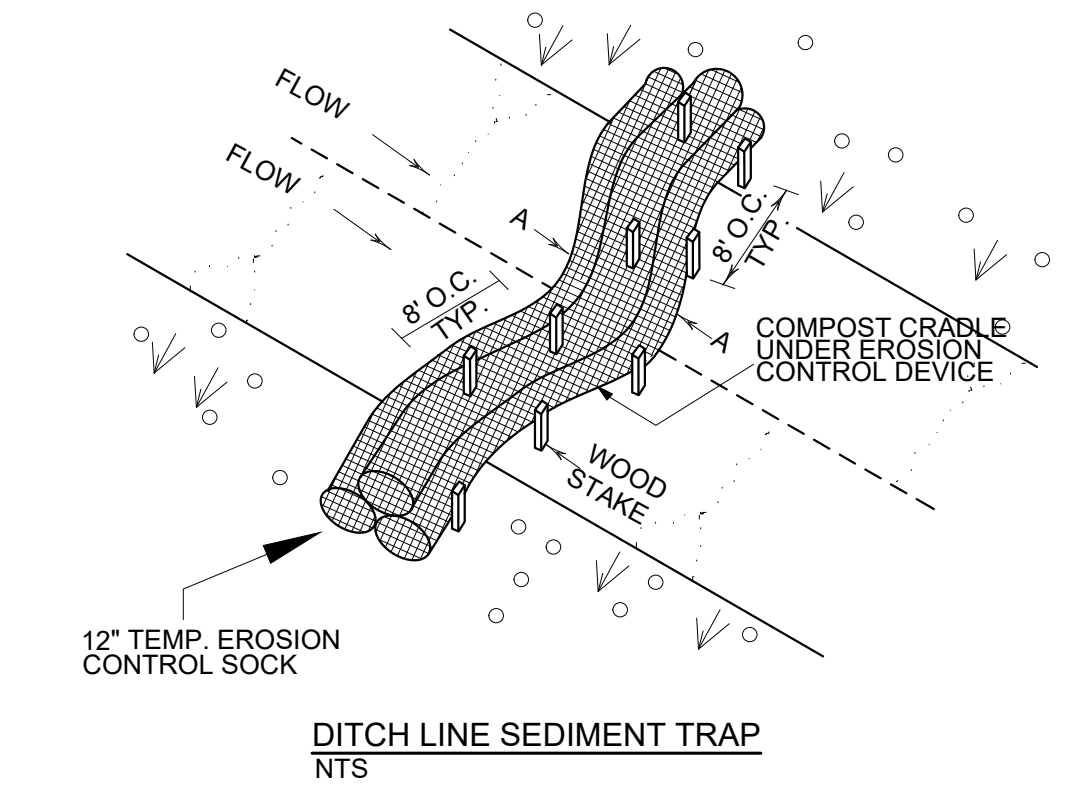
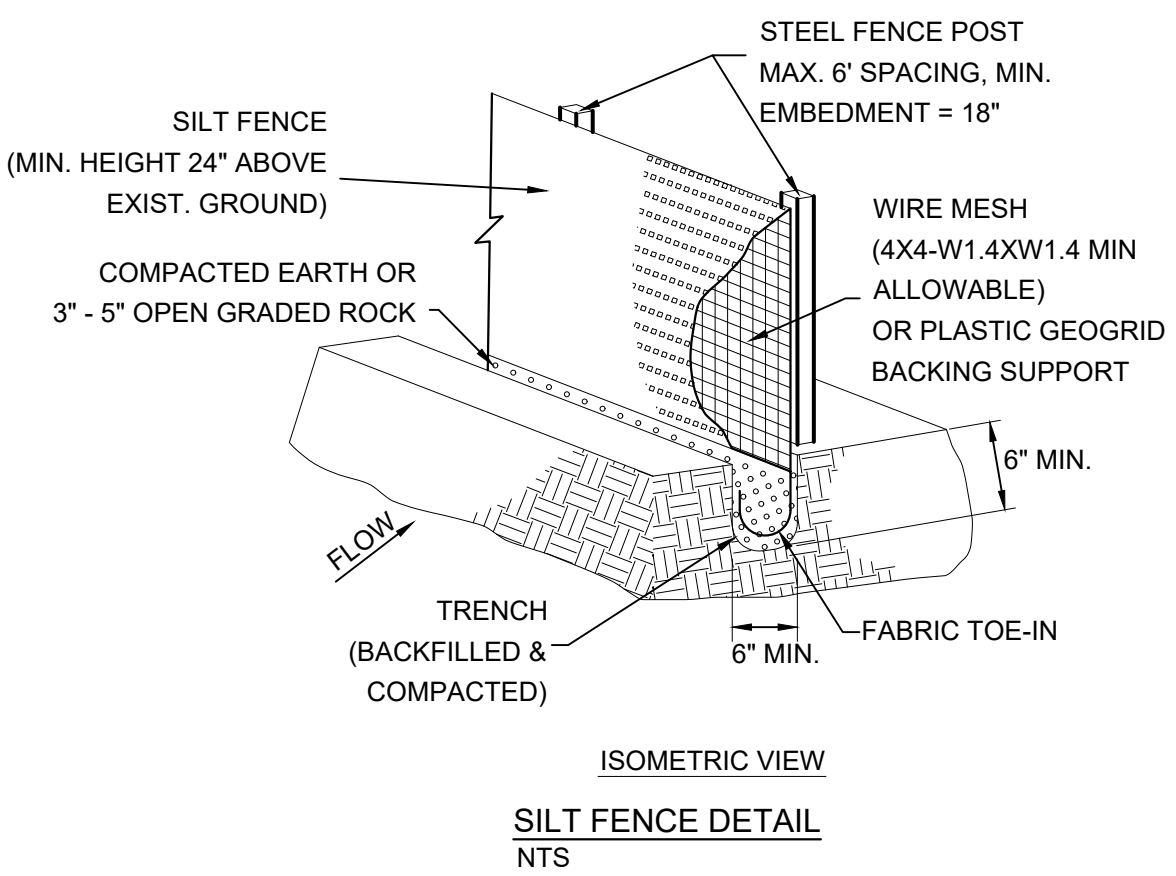
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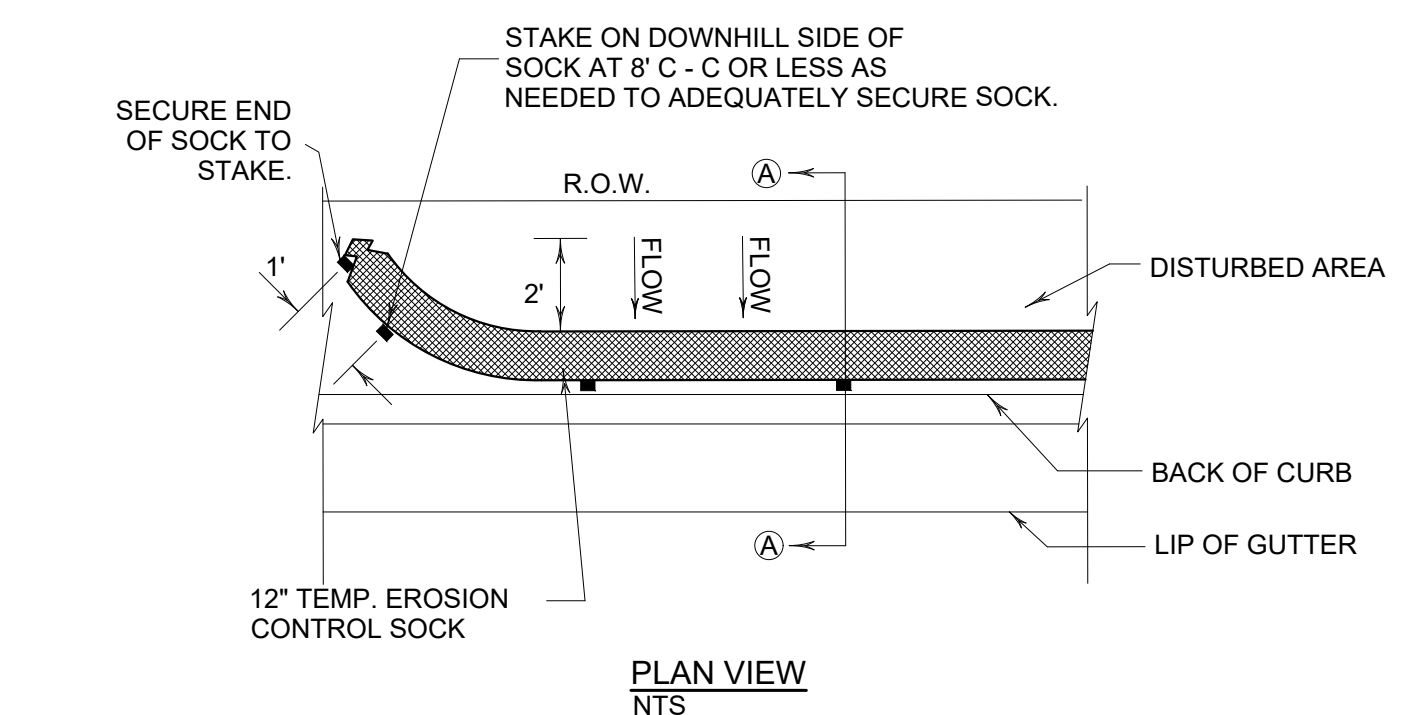
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Issued:	09/28/2021
Drawn By:	JG
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Sheet Title	MINIMUM SUGGESTED EROSION CONTROL DETAILS

**SILT FENCE NOTES:**

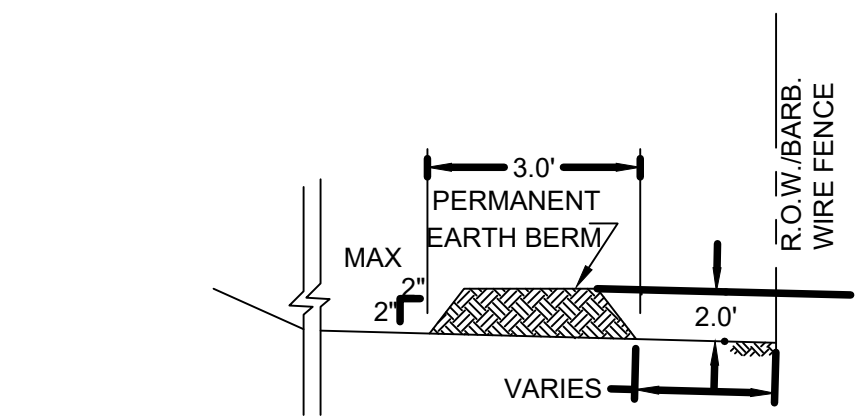
- STEEL POSTS WHICH SUPPORT THE SILT FENCE SHALL BE INSTALLED WITH A SLIGHT ANGLE TOWARD THE ANTICIPATED RUNOFF SOURCE. POST MUST BE EMBEDDED A MINIMUM OF 18".
- THE TOE OF THE SILT FENCE SHALL BE TRENCHED IN WITH A SPADE OR MECHANICAL TRENCHER, SO THAT THE DOWNSLOPE FACE OF THE TRENCH IS FLAT AND PERPENDICULAR TO THE LINE OF FLOW. WHERE FENCE CANNOT BE TRENCHED IN WEIGHT FABRIC FLAP WITH WASHED GRAVEL ON UPHILL SIDE, AS NECESSARY, TO PREVENT FLOW UNDER FENCE.
- THE TRENCH MUST BE A MINIMUM OF 6 INCHES DEEP AND 6 INCHES WIDE TO ALLOW FOR THE SILT FENCE FABRIC TO BE LAID IN THE GROUND AND BACKFILLED.
- SILT FENCE SHOULD BE SECURELY FASTENED TO EACH STEEL SUPPORT POST OR TO BACKING SUPPORT, WHICH IS IN TURN ATTACHED TO THE STEEL FENCE POST. FABRIC SHALL OVERLAP AT ABUTTING ENDS A MINIMUM OF 3 FEET AND SHALL BE JOINED SUCH THAT NO BYPASS OR LEAKAGE OCCURS.
- INSPECTION SHALL BE MADE WEEKLY OR AFTER EACH RAINFALL. REPAIR OR REPLACEMENT SHALL BE MADE PROMPTLY AS NEEDED.
- SILT FENCE SHALL BE REMOVED WHEN THE SITE IS COMPLETELY STABILIZED SO AS NOT TO BLOCK OR IMPEDE STORM FLOW OR DRAINAGE.
- ACCUMULATED SILT SHALL BE REMOVED WHEN IT REACHES A DEPTH OF 6 INCHES. THE SILT SHALL BE DISPOSED OF IN AN APPROVED SITE AND IN SUCH A MANNER AS TO NOT CONTRIBUTE TO ADDITIONAL SILTATION.
- ALL INLETS SHALL BE ENCIRCLED WITH SILT FENCE OR EROSION CONTROL LOGS.
- IF EROSION CONTROL DEVICES INTERFERE WITH CONSTRUCTION, THEY MAY BE TEMPORARILY REMOVED UNTIL THAT PORTION OF WORK IS COMPLETE. EROSION CONTROL DEVICES MUST BE IN PLACE AT ALL OTHER TIMES.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SUBMITTAL OF A STORM WATER POLLUTION PREVENTION PLAN (SWPPP) THAT SUPPLEMENTS THE INFORMATION PROVIDED IN THE DESIGN PLANS. THE SWPPP INFORMATION PROVIDED IN THE DESIGN PLANS DOES NOT MEET THE REQUIREMENTS SET FORTH IN THE TCEQ GENERAL PERMIT. THIS INFORMATION AND DETAILS ARE ONLY FOR INFORMATIONAL PURPOSES ONLY. (REFER TO SPECIFICATION 02370 - TPDES REQUIREMENTS).



**BACK OF CURB INLET SEDIMENT TRAP NTS**

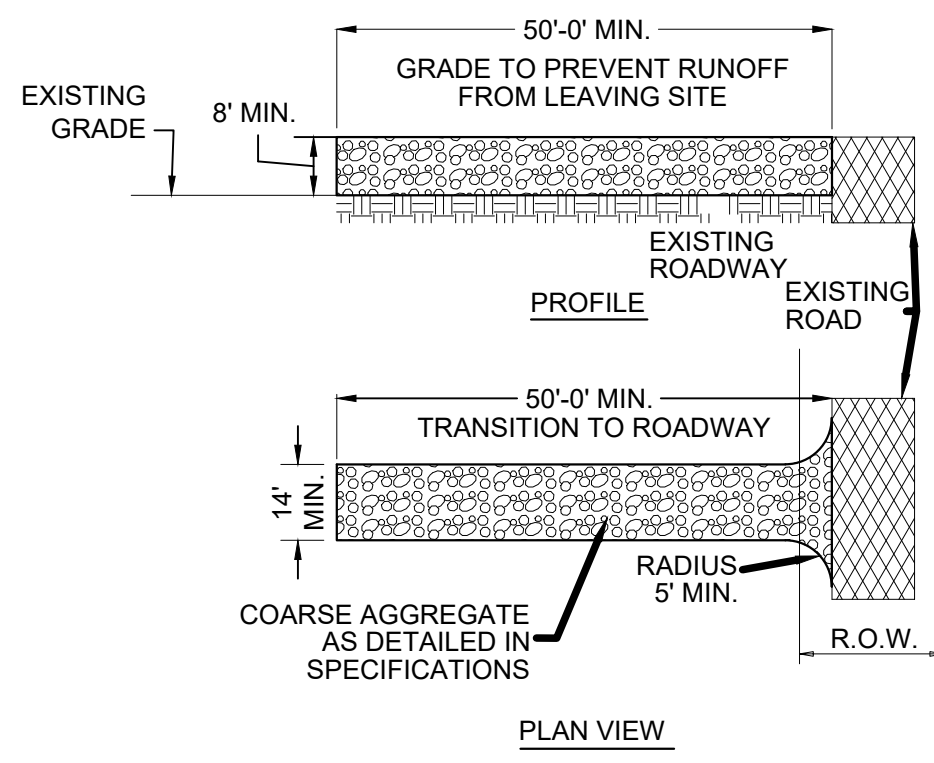


**PLAN VIEW NTS**

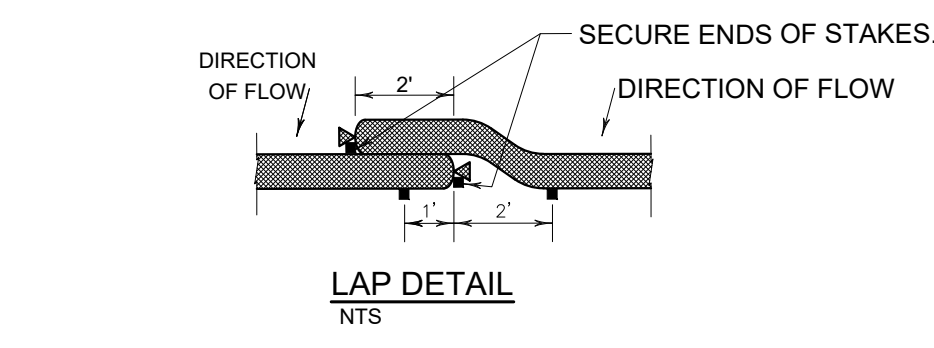


- NOTES:**
- CONTRACTOR WILL CLEAN UP IMMEDIATELY ANY MATERIAL TRACKED ON TO PUBLIC STREETS AS A RESULT OF CONSTRUCTION.
  - BERM TO BE KEPT PERMANENTLY.

**EARTH BERM DETAIL NTS**



**STABILIZED CONSTRUCTION EXIT NTS**



**LAP DETAIL NTS**

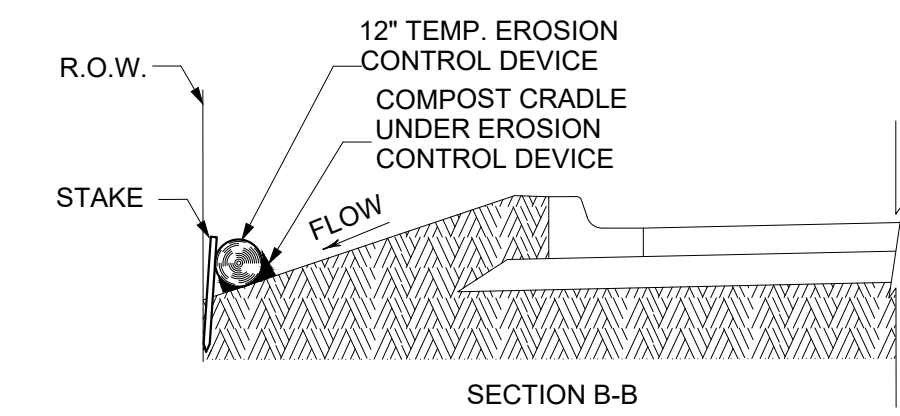
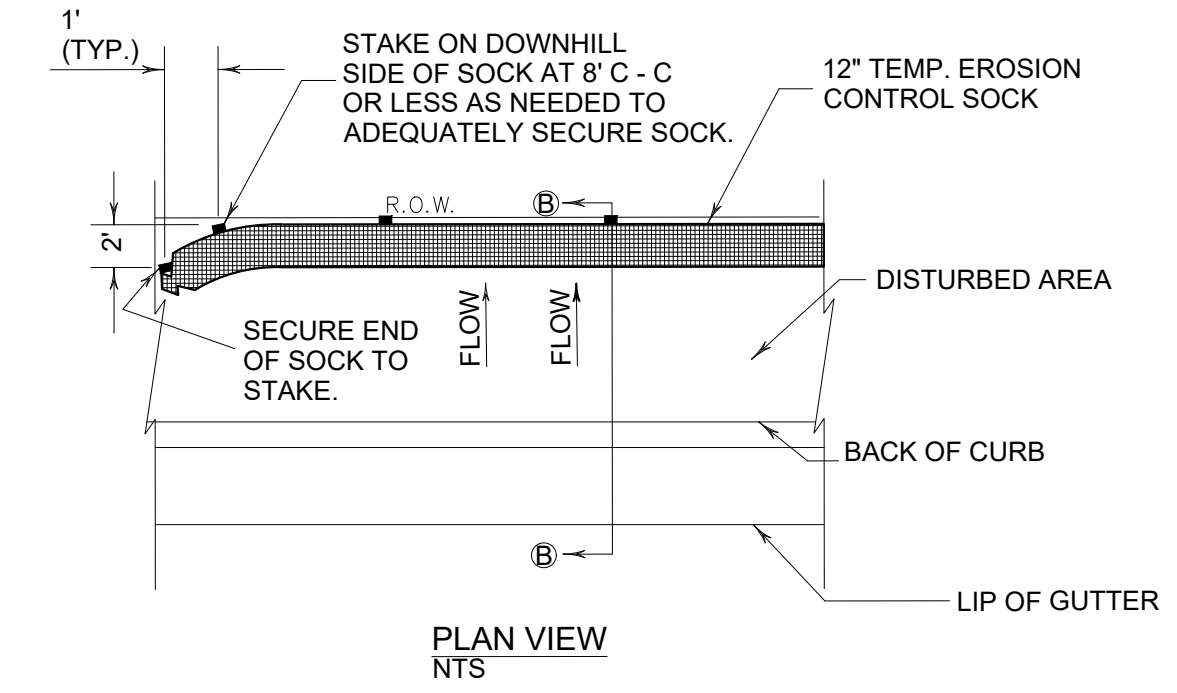
**CONSTRUCTION ENTRANCE/EXIT NOTES**

- LENGTH SHALL BE AS SHOWN ON THE CONSTRUCTION DRAWINGS, BUT NOT LESS THAN 50 FEET.
- STONE SHALL BE 3 TO 5 INCH DIAMETER CRUSHED ROCK OR ACCEPTABLE CRUSHED CONCRETE. THICKNESS SHALL NOT BE LESS THAN 8 INCHES.
- WIDTH SHALL NOT BE LESS THAN FULL WIDTH OF ALL POINTS OF INGRESS OR EGRESS.
- STABILIZATION FOR OTHER AREAS SHALL HAVE THE SAME AGGREGATE THICKNESS AND WIDTH REQUIREMENTS AS THE STABILIZED CONSTRUCTION EXIT, UNLESS OTHERWISE SHOWN ON THE CONSTRUCTION DRAWINGS.
- STABILIZED AREA MAY BE WIDENED OR LENGTHENED TO ACCOMMODATE A TRUCK WASHING AREA. AN OUTLET SEDIMENT TRAP MUST BE PROVIDED FOR THE TRUCK WASHING AREA.
- STABILIZED CONSTRUCTION EXIT MUST BE PROPERLY GRADED OR INCORPORATE DRAINAGE SWALE TO PREVENT RUNOFF FROM LEAVING THE CONSTRUCTION SITE AND SHALL BE MAINTAINED FREE OF SEDIMENT FOR THE DURATION OF THE PROJECT.
- THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PAVED SURFACES. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE A CONDITIONS DEMAND. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PAVED SURFACES, MUST BE REMOVED IMMEDIATELY.
- STABILIZED CONSTRUCTION EXIT SHALL BE USED FOR SUBGRADE OF THE PROPOSED ACCESS DRIVE. CONTRACTOR TO LEVEL STABILIZED ROCK AND PLACE CRUSHED LIMESTONE AS PER DETAIL.

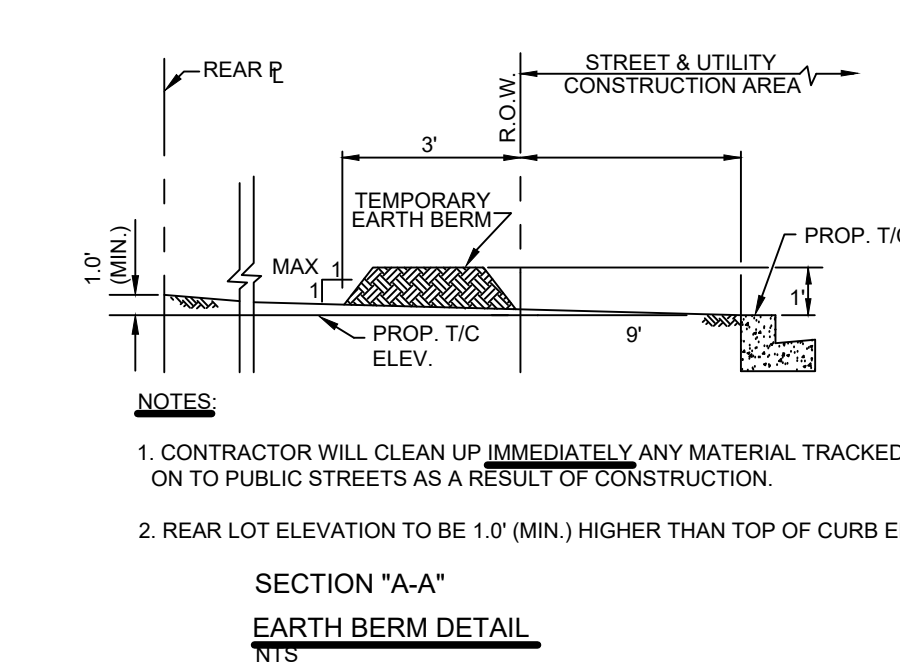
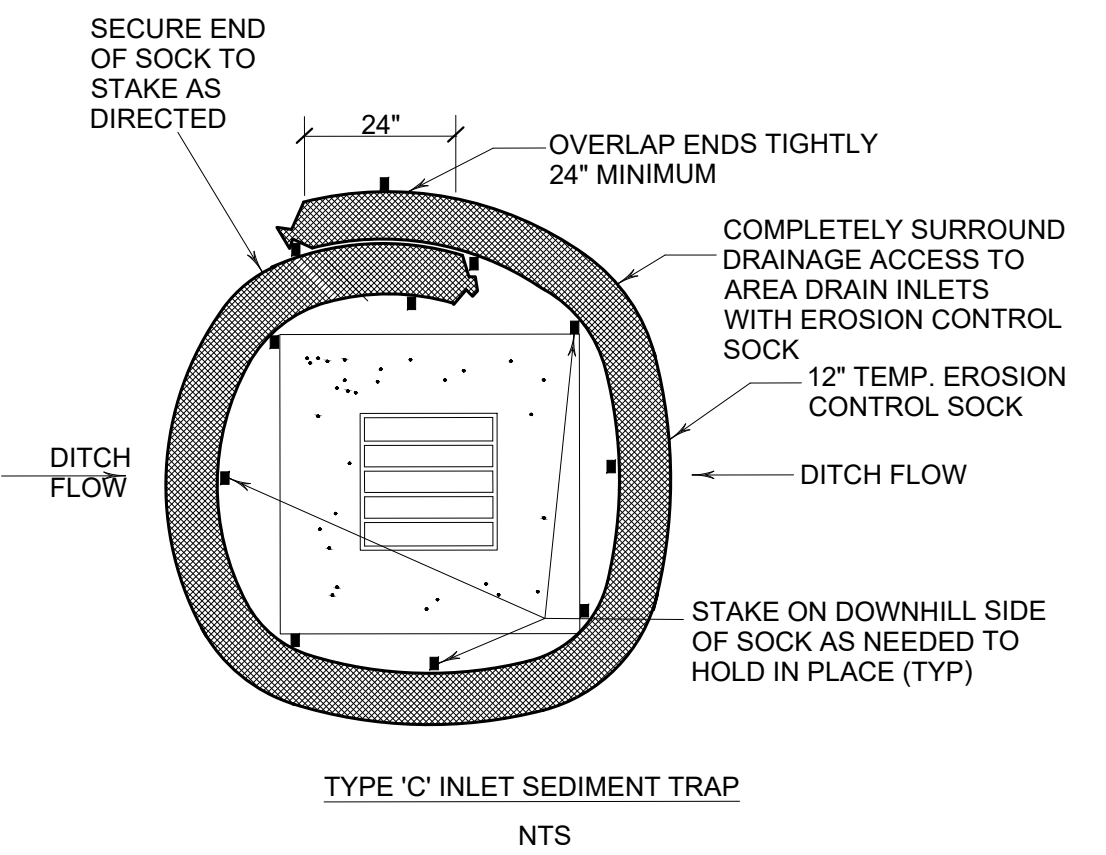
**TEMPORARY STABILIZATION**  
 ANY AREA LEFT DISTURBED FOR MORE THAN 21 DAYS SHALL BE TEMPORARILY REVEGETATED WITH SEED AT THE DIRECTION OF THE ENGINEER.

**GENERAL NOTES**

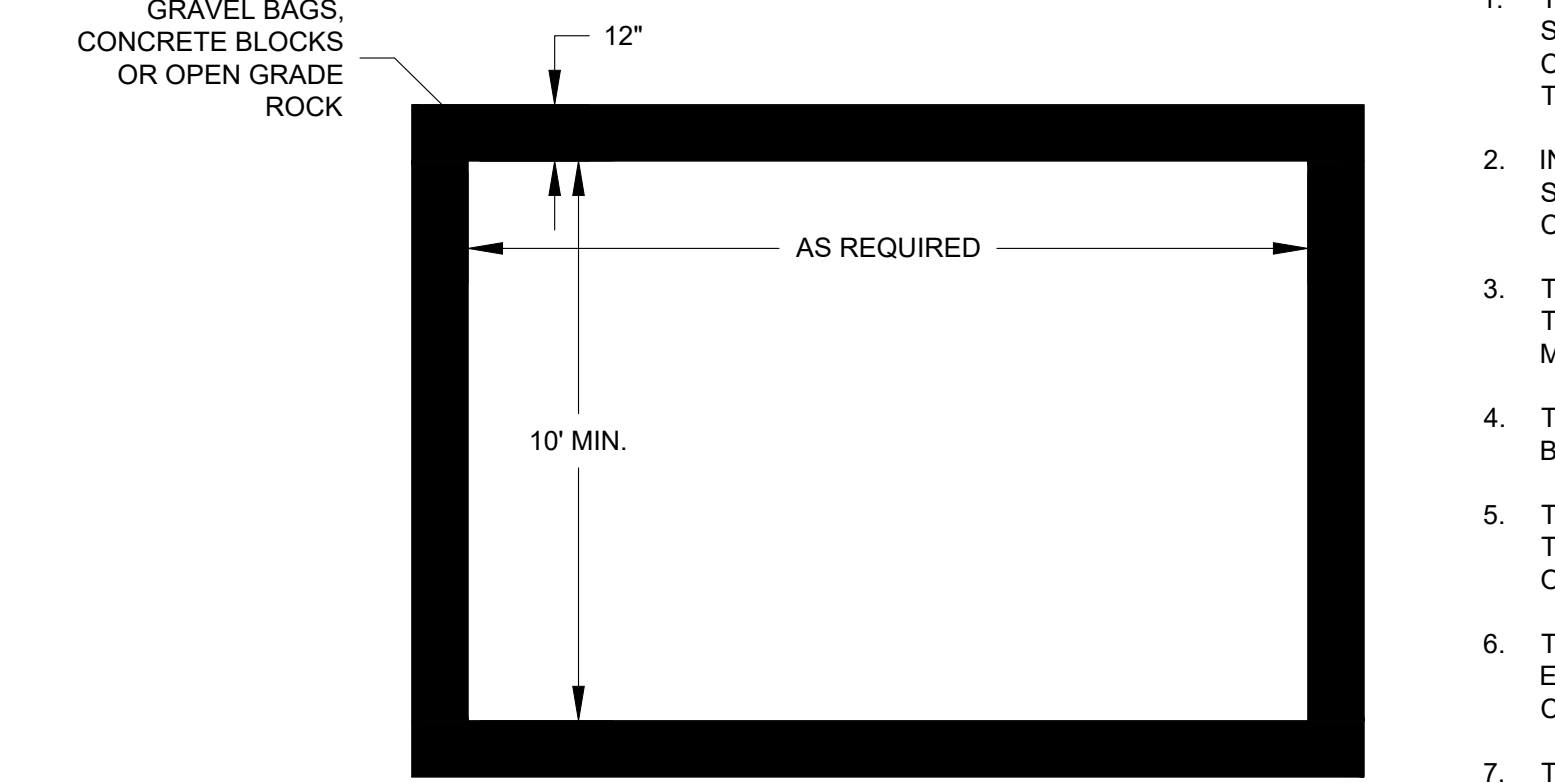
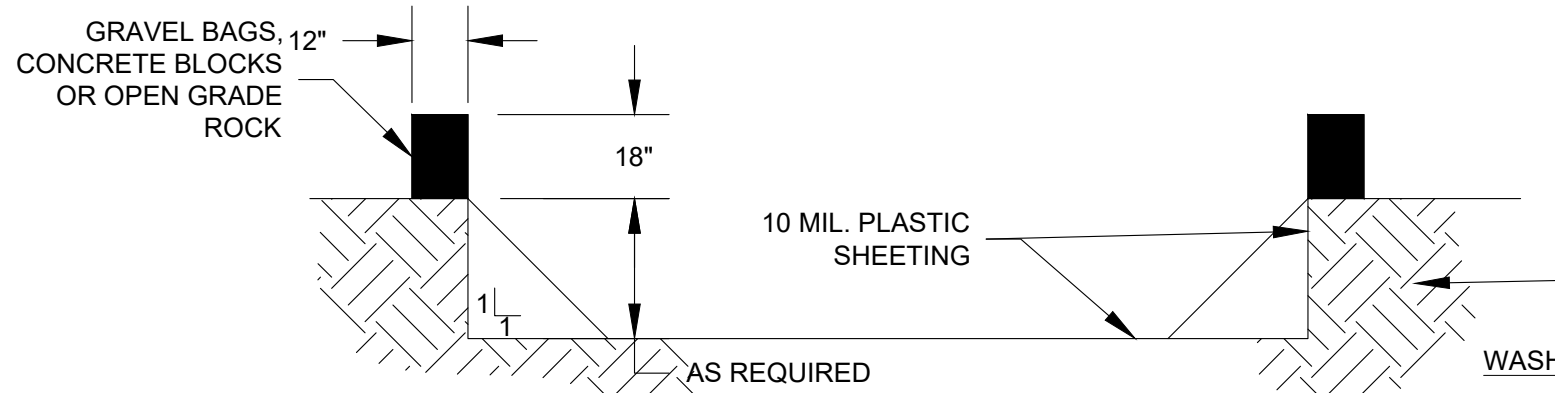
- LENGTHS OF EROSION CONTROL SOCKS SHALL BE IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND AS REQUIRED FOR THE PURPOSE INTENDED. MAXIMUM LENGTH OF SOCKS SHALL BE 30' FOR 12" DIAMETER SOCKS.
- UNLESS OTHERWISE DIRECTED, USE BIODEGRADABLE OR PHOTODEGRADABLE CONTAINMENT MESH ONLY WHERE SOCK WILL REMAIN IN PLACE AS PART OF A VEGETATIVE SYSTEM. FOR TEMPORARY INSTALLATIONS, USE RECYCLABLE CONTAINMENT MESH.
- STUFF SOCKS WITH SUFFICIENT FILTER MATERIAL TO ACHIEVE DENSITY THAT WILL HOLD SHAPE WITHOUT EXCESSIVE DEFORMATION.
- STAKES SHALL BE 2" X 2" WOOD 4' LONG, EMBEDDED SUCH THAT 2" PROTRUDES ABOVE SOCK.
- COMPOST CRADLE MATERIAL IS INCIDENTAL AND WILL NOT BE PAID FOR SEPARATELY.
- A SEDIMENT TRAP MAY BE USED TO PRECIPITATE SEDIMENT OUT OF RUNOFF DRAINING FROM AN UNSTABILIZED AREA.
- TRAPS: THE DRAINAGE AREA FOR A SEDIMENT TRAP SHOULD NOT EXCEED 5 ACRES. THE TRAP CAPACITY SHOULD BE 1800 CF/ACRE (0.5" OVER THE DRAINAGE AREA).
- SEDIMENT TRAPS SHOULD BE PLACED IN THE FOLLOWING LOCATIONS:
  - IMMEDIATELY PRECEDING DRAIN INLETS.
  - JUST BEFORE THE DRAINAGE ENTERS A WATER COURSE.
  - JUST BEFORE THE DRAINAGE LEAVES THE RIGHT OF WAY.
  - JUST BEFORE THE DRAINAGE LEAVES THE CONSTRUCTION LIMITS WHERE DRAINAGE FLOWS AWAY FROM THE PROJECT.
- THE TRAP SHOULD BE CLEANED WHEN THE CAPACITY HAS 1 OR THE SEDIMENT HAS ACCUMULATED 2 BEEN REDUCED BY TO A DEPTH OF 1', WHICHEVER IS LESS. CLEANING AND REMOVAL OF ACCUMULATED SEDIMENT DEPOSITS IS INCIDENTAL AND WILL NOT BE PAID FOR SEPARATELY.



**RIGHT-OF-WAY SEDIMENT TRAP NTS**



**SECTION 'A-A' EARTH BERM DETAIL NTS**



**PAINT / CONCRETE WASHOUT PIT NTS**

- WASHOUT PIT NOTES**
- THE EXCAVATION FOR THE CONCRETE WASHOUT SHALL BE A MINIMUM OF 10' WIDE AND A SUFFICIENT LENGTH AND DEPTH TO ACCOMMODATE 7 GALLONS OF WASHOUT WATER AND CONCRETE PER TRUCK PER DAY AND/OR 50 GALLONS WATER AND CONCRETE PER PUMP TRUCK PER DAY
  - IN THE EVENT THAT THE CONCRETE TRUCK WASHOUT IS CONSTRUCTED ABOVE GROUND, IT SHALL BE 10 FEET WIDE AND 10 FEET LONG WITH WITH THE SAME REQUIREMENTS FOR CONTAINMENT AS DESCRIBED IN NOTE 1.
  - THE CONTAINMENT AREA SHALL BE LINED WITH 10 MIL. PLASTIC SHEETING WITHOUT HOLES OR TEARS. WHERE THERE ARE SEAMS, THESE SHALL BE SECURED ACCORDING TO MANUFACTURER'S DIRECTIONS.
  - THE BERM CONSISTING OF GRAVEL BAGS, CONCRETE BLOCKS OR OPEN GRADED ROCK SHALL BE NO LESS THAN 18 INCHES HIGH AND NO LESS THAN 12 INCHES WIDE.
  - THE PLASTIC SHEETING SHALL BE OF SUFFICIENT SIZE SO THAT IT WILL OVER LAP THE TOP OF THE CONTAINMENT AREA AND BE WRAPPED AROUND THE OUTER PERIMETER OF THE CONTAINMENT AREA.
  - THE GRAVEL BAGS, CONCRETE BLOCKS OR OPEN GRADED ROCK SHALL BE PLACED ABUTTING EACH OTHER TO FORM A CONTINUOUS BERM AROUND THE OUTER PERIMETER OF THE CONTAINMENT AREA.
  - THE WASHOUT MATERIAL IN THE CONTAINMENT AREA SHALL NOT EXCEED 50% OF CAPACITY AT ANY ONE TIME.
  - SOLIDS SHALL BE REMOVED FROM CONTAINMENT AREA AND DISPOSED OF PROPERLY. ANY DAMAGE TO THE PLASTIC SHEETING SHALL BE REPAIRED OR SHEETING BE REPLACED BEFORE THE NEXT USE.