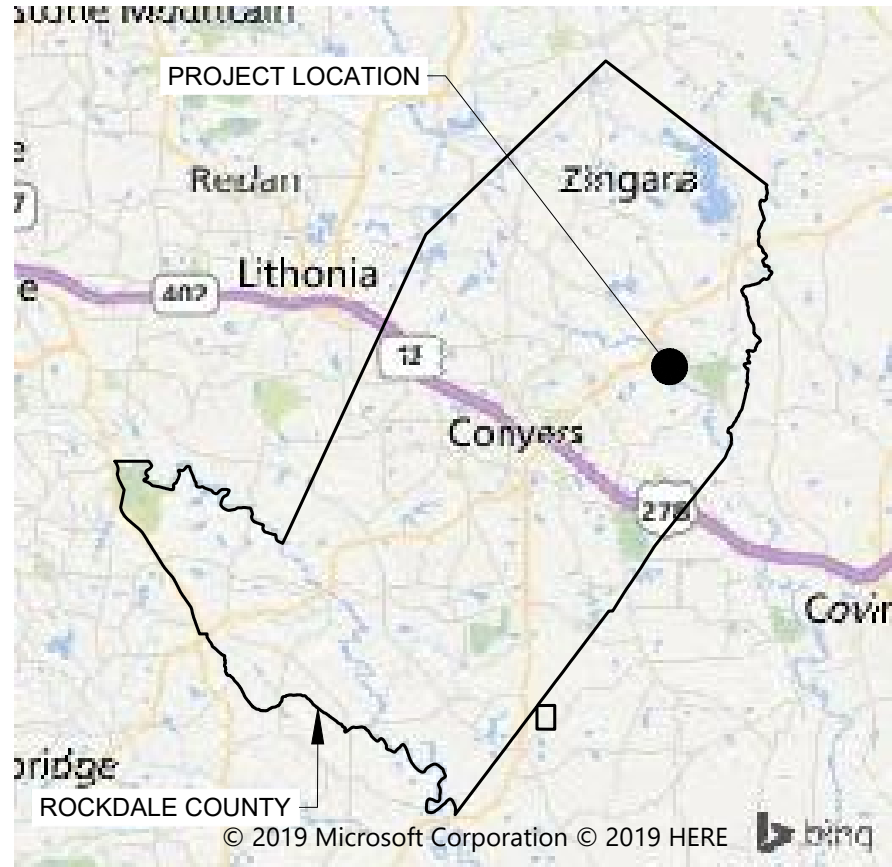
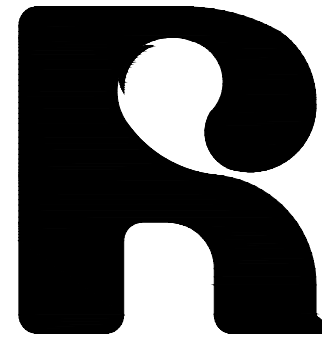


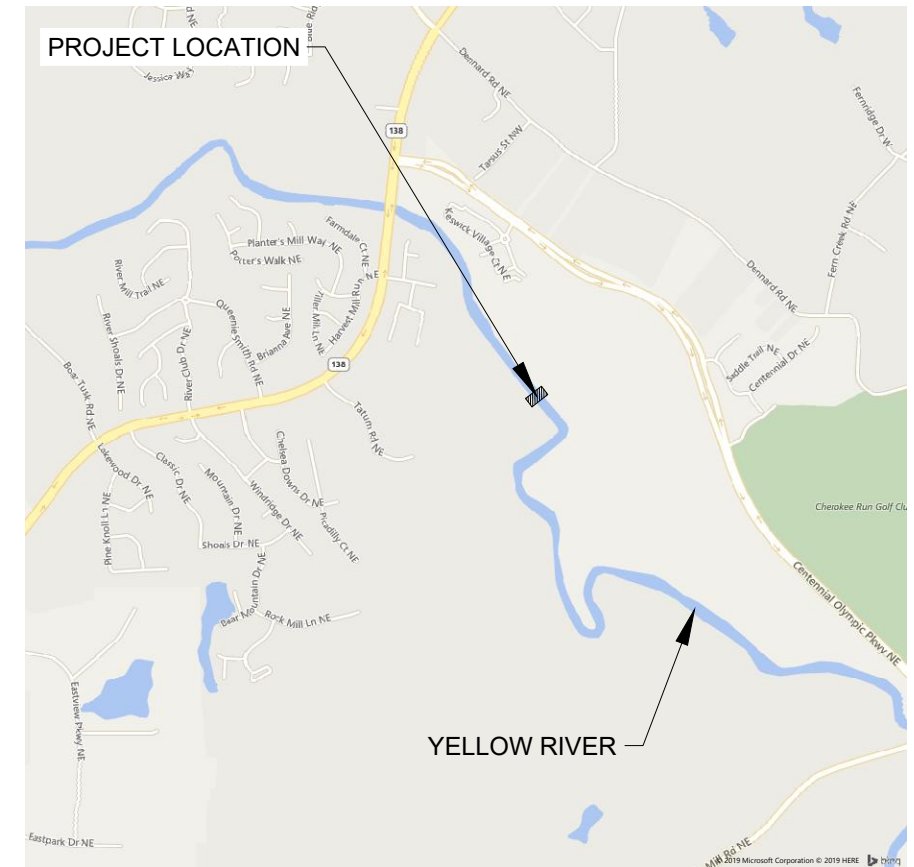
CONSTRUCTION PLANS FOR: ROCKDALE WATER RESOURCES



PROJECT VICINITY MAP



ROCKDALE WATER RESOURCES



PROJECT LOCATION MAP

PROJECT: YELLOW RIVER SEWER CROSSING REHABILITATION

CONSULTING ENGINEER:

ESI

ENGINEERING STRATEGIES, INC.

Phone: (770) 429-0001

FEBRUARY 2020

GENERAL STRUCTURAL NOTES

GENERAL CONDITIONS

- ALL STRUCTURAL DRAWINGS SHALL BE USED IN CONJUNCTION WITH THE MECHANICAL, CIVIL, SPECIFICATIONS AND SHOP DRAWINGS.
- THE CONTRACTOR SHALL REVIEW AND VERIFY DIMENSIONS SHOWN IN ALL PLANS AND REVIEW ALL FIELD CONDITIONS THAT MAY AFFECT THE WORK DEPICTED ON THE DRAWINGS. SHOULD DISCREPANCIES APPEAR, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IN WRITING TO OBTAIN ENGINEER'S CLARIFICATION BEFORE COMMENCING WITH THE WORK.
- THE CONTRACTOR SHALL TAKE ALL NECESSARY MEASURES TO PROTECT EXISTING STRUCTURES FROM DAMAGE WHEN WORKING IN AND AROUND EXISTING STRUCTURES PERFORMING WORK SUCH AS DEMOLITION, FOUNDATION EXCAVATIONS, AND OTHERS.

DESIGN CRITERIA

BUILDING CODES AND REFERENCES:

- 2012 INTERNATIONAL BUILDING CODE (IBC)
- STRUCTURAL STEEL: AISC MANUAL OF STEEL CONSTRUCTION, 14TH EDITION
- ALUMINUM: ADM1-2010, ALUMINUM DESIGN MANUAL
- WIND DESIGN CRITERIA:

RISK CATEGORY	III
WIND IMPORTANCE FACTOR, I_w	1.00
ULTIMATE DESIGN WIND SPEED, V_{ULT}	120 MPH
NOMINAL DESIGN WIND SPEED, V_{ASD}	90 MPH
EXPOSURE CATEGORY	C

STRUCTURAL STEEL

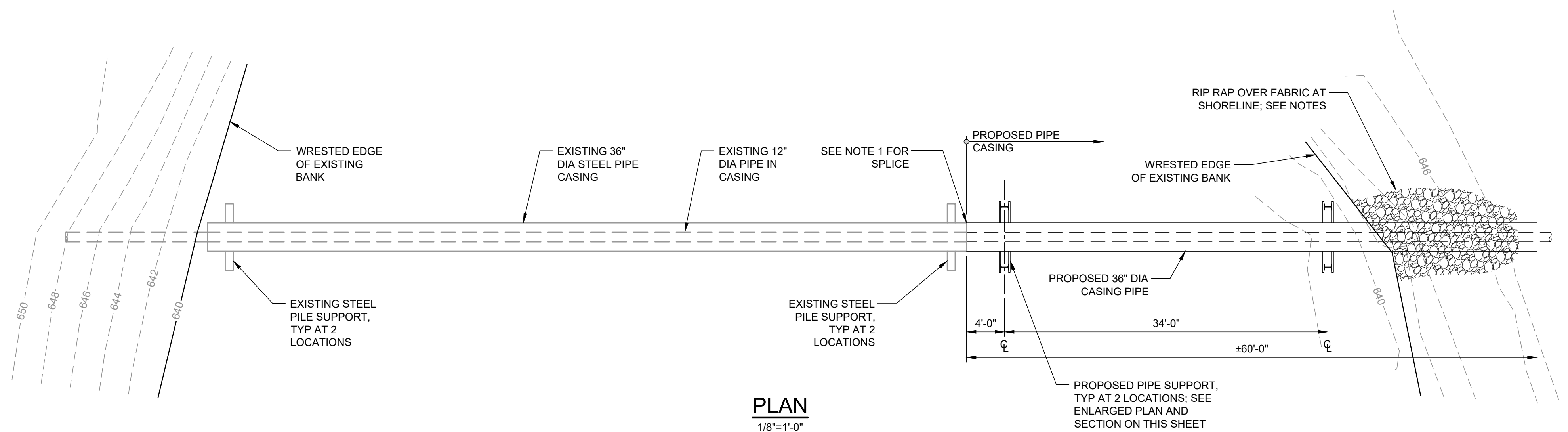
- DESIGN, FABRICATION, ERECTION MATERIALS AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH THE LATEST AISC SPECIFICATIONS AND THE DESIGN DRAWINGS.
- STEEL MATERIAL:
 - W-SHAPED SECTIONS : ASTM A992, GRADE 50
 - HP-SHAPED SECTIONS: ASTM A572, GRADE 50
 - ALL OTHER STRUCTURAL STEEL: ASTM A36
 - ALL PIPE: ASTM A53, GRADE B
- WELDED CONNECTIONS SHALL BE IN ACCORDANCE WITH THE LATEST AWS STRUCTURAL WELDING CODE REQUIREMENTS. ELECTRODES SHALL BE E-70XX.
- PAINT ALL STEEL WITH (2) COATS OF MACROPOXY 646 BY SHERWIN WILLIAMS AT MINIMUM DFT OF 5.0 - 10.0 MILS. PROVIDE SURFACE PREPARATION AND PRIMER IN ACCORDANCE WITH MANUFACTURER REQUIREMENTS.

PILES

- SEE SPECIFICATION 02355 FOR PILE MATERIAL TYPE, INSTALLATION REQUIREMENTS, SUBMITTAL REQUIREMENTS, ETC.
- PILE LOAD CAPACITY: 8 TONS (COMPRESSION)
- TOLERANCE FOR TOP OF PILE ELEVATION IS $\pm 6"$.
- ALL PILES SHALL HAVE A MINIMUM EMBEDMENT SHOWN ON THE DRAWINGS.

SHORE PROTECTION

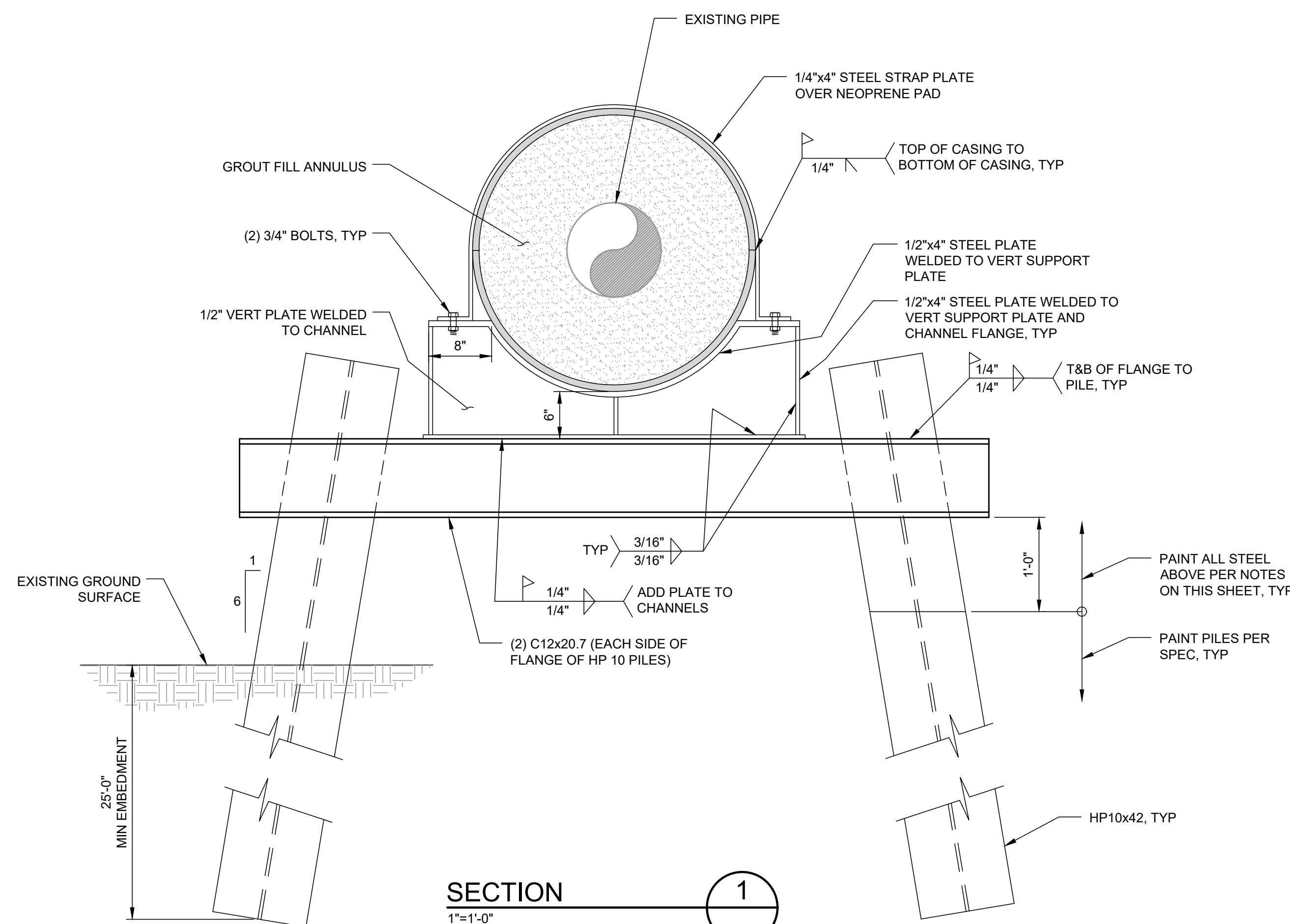
- STONE RIP RAP SHALL BE GEORGIA DOT TYPE 3. RIP RAP SIZE SHALL CONFORM TO SECTION 805.01 OF THE GEORGIA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR TYPE 3 STONE DUMPED RIP RAP.
- FILTER FABRIC SHALL BE NON-WOVEN TYPE AND SHALL CONFORM TO THE GEORGIA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS, SECTION 881.06 FOR NON-WOVEN FABRICS. FILTER FABRIC SHALL BE AN APPROVED PRODUCT ON THE GEORGIA DEPARTMENT OF TRANSPORTATION QUALIFIED PRODUCT LIST NO. 28, LATEST EDITION.
- RIP RAP AND FABRIC SHALL BE PLACED A MINIMUM OF 15FT ON EACH SIDE OF PIPE AT SHORELINE.



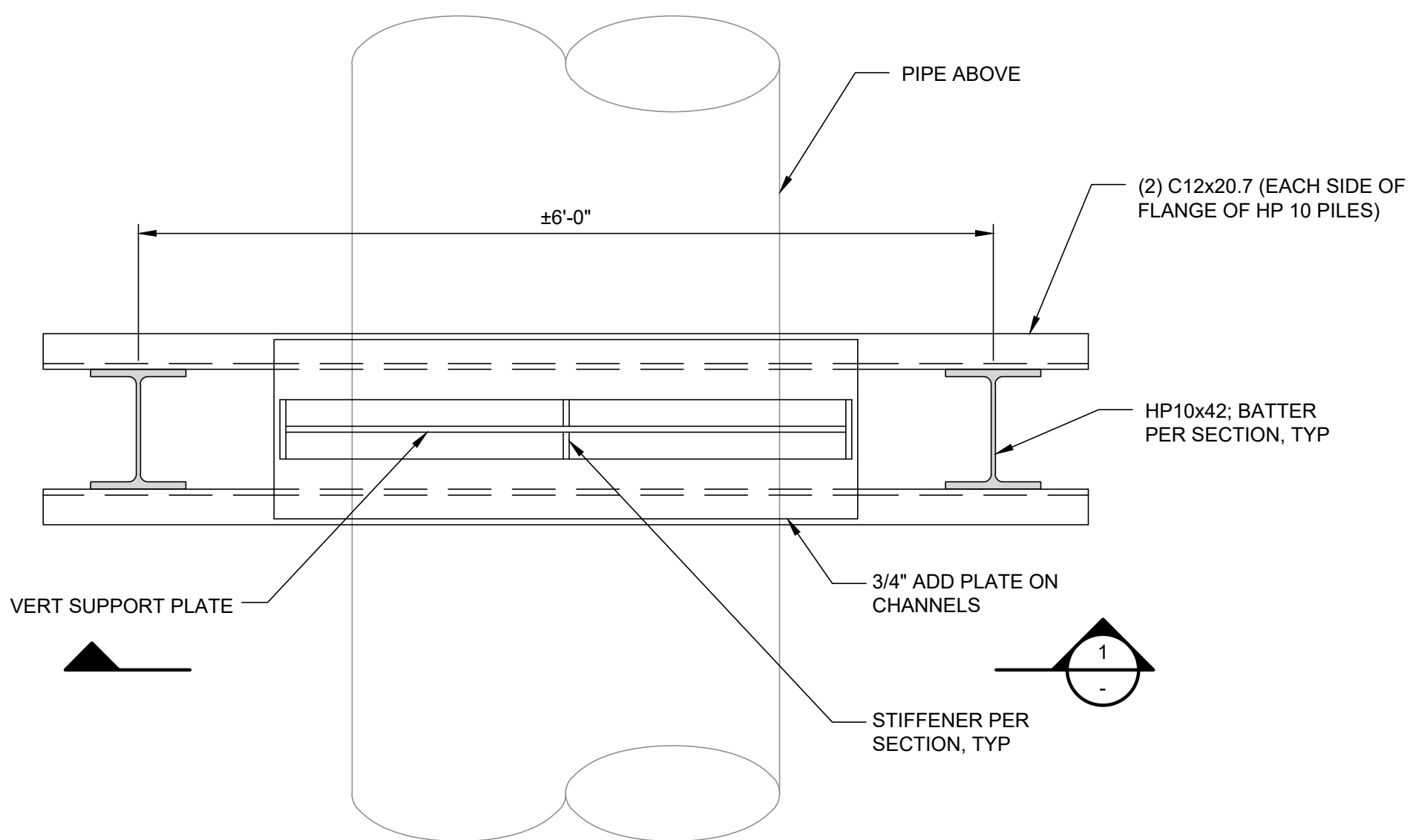
PLAN
1/8"=1'-0"

NOTES

- THE EXISTING AND PROPOSED CASING PIPES ARE NOT TO BE WELDED TOGETHER. CONTRACTOR SHALL PROVIDE CLOSURE AT END OF PROPOSED CASING TO INHIBIT GROUT FILL FROM ESCAPING ANNULUS DURING PLACEMENT. ALL VENT AND FILL PORTS SHALL BE CLOSED AT END OF CONSTRUCTION WITH GROUT.
- ALL STEEL SHOWN TO BE PAINTED PER SPECIFICATIONS.
- CONTRACTOR SHALL PROTECT THE EXISTING PIPE TO BE ENCASED DURING CONSTRUCTION. NO CONSTRUCTION LOADS SHALL BE APPLIED TO THE PIPE AT ANY TIME. PROVIDE SHORING AND BRACING OF THE EXISTING PIPE AS NEEDED TO FACILITATE CONSTRUCTION.



SECTION
1
1"=1'-0"



PIPE SUPPORT FRAMING
PLAN
1"=1'-0"

ESI
ENGINEERING STRATEGIES, INC.
3855 SHALLOWFORD ROAD, SUITE 525
MARIETTA, GA 30062
(770) 429-0001

PROJECT NUMBER:	DATE:	REVISION	DATE
FEBRUARY 2020	FEBRUARY 2020		

DSGN: JVS
DRWN: JVS
CHKD: JC
BAR BELOW IS 1" LONG FOR SCALES SHOWN ON THIS SHEET. IF NOT 1" LONG ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

YELLOW RIVER SEWER CROSSING REHABILITATION
STRUCTURAL NOTES & PIPE CROSSING PLAN, SECTION AND DETAIL

SHEET NO.
S1