

ELEVATION
(SOUTH FACE OF BENT 50)
(NORTH FACE OF BENT 51)

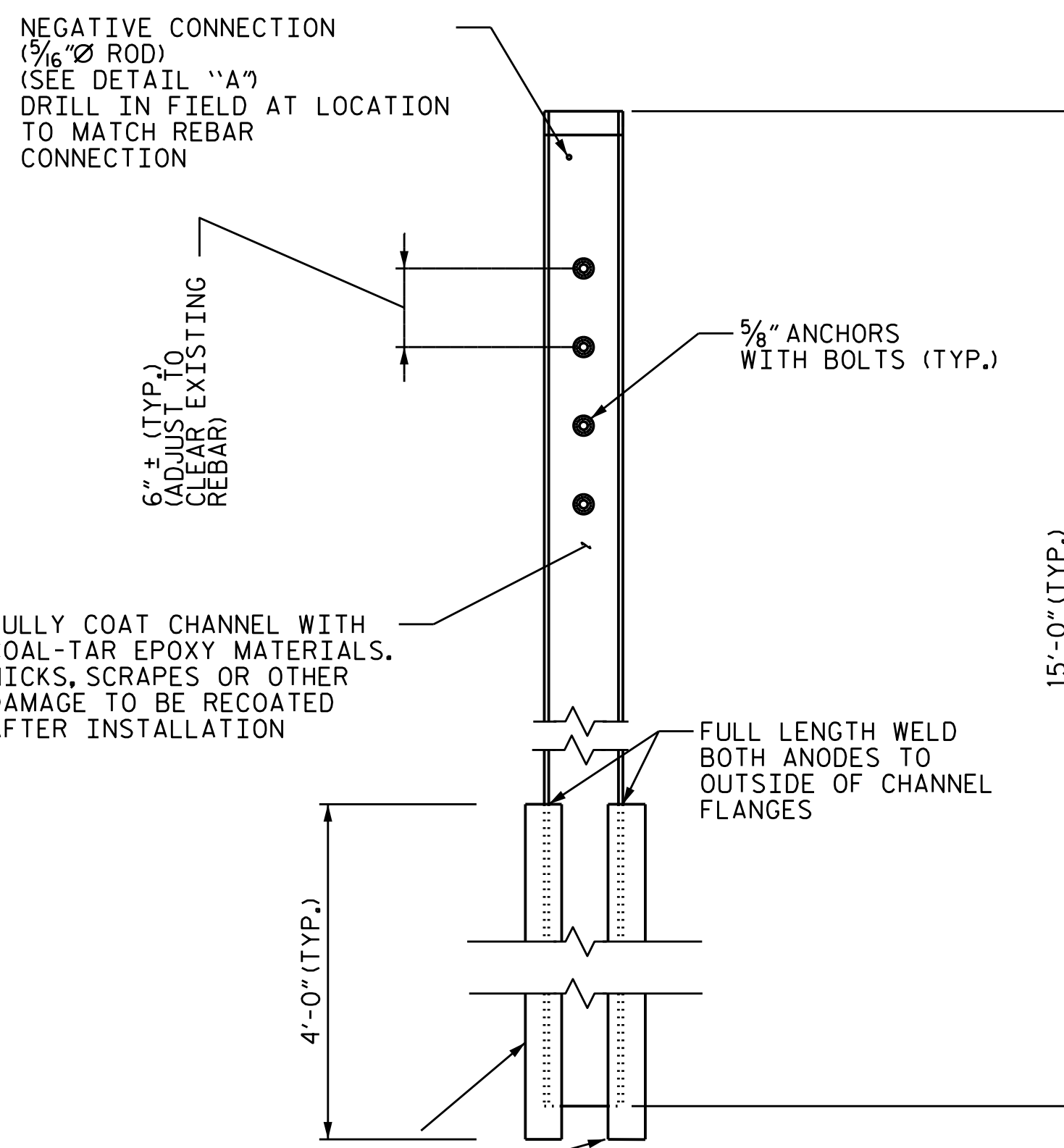
ELEVATION
(WEST OR EAST FACES OF BENT 50 & 51)

ANODE PLACEMENT

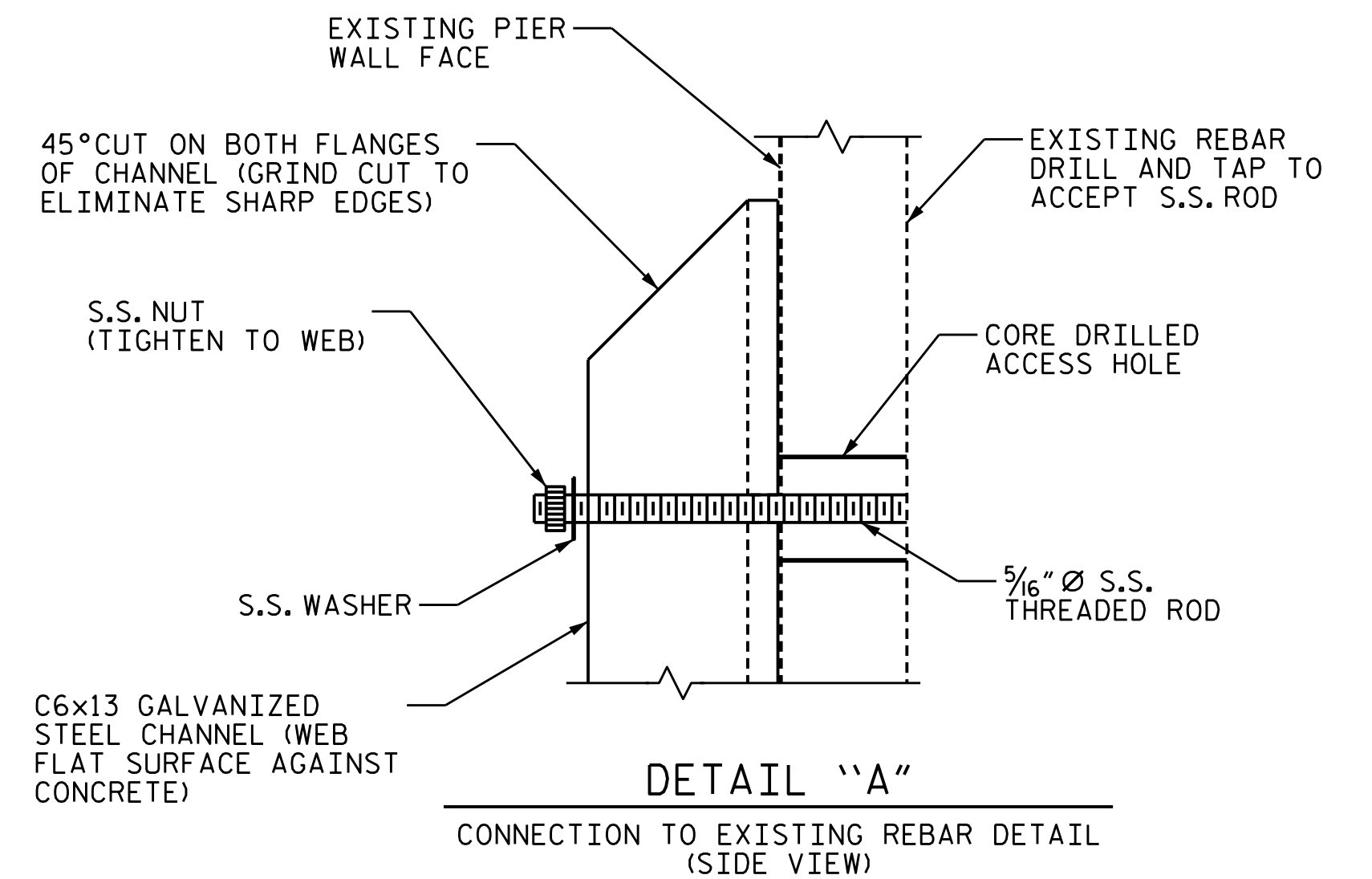
SEE DETAIL "A" FOR CONNECTION TO EXISTING REBAR
SEE DETAIL "B" FOR MONITORING JUNCTION BOX

NOTES:

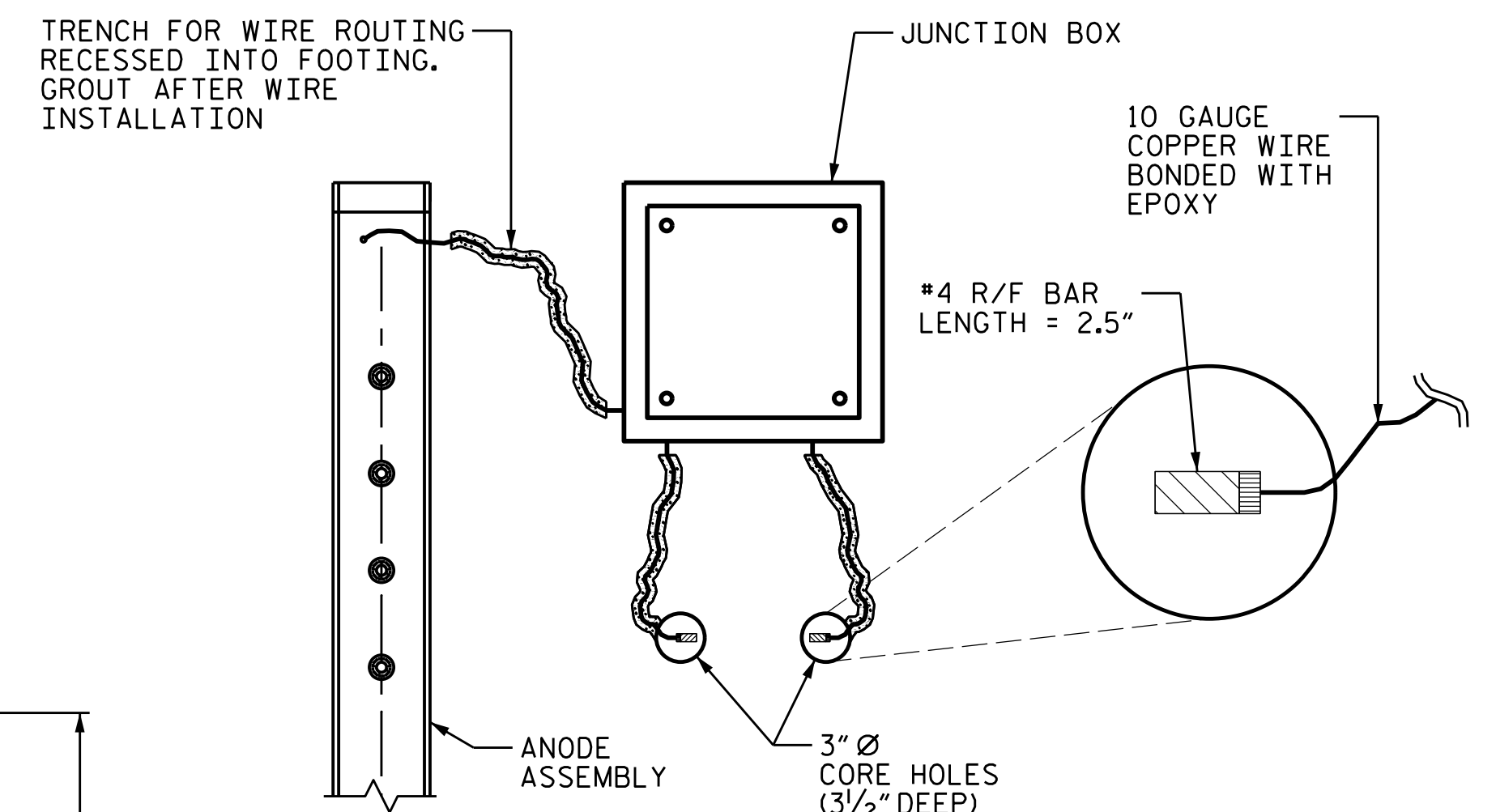
1. ANODES SHALL BE ASTM B418-01 TYPE I.
2. EXCEPT FOR ANODE WELDING, ALL CHANNEL MANUFACTURING SHALL BE PERFORMED PRIOR TO GALVANIZING.
3. ANCHORS TO BE DROP-IN TYPE 5/8" x 2 7/32" GALVANIZED HILTI HDI 243262 OR APPROVED EQUAL.
4. SEAL ACCESS HOLE WITH APPROVED EPOXY GROUT MATERIAL AFTER S.S. ROD INSTALLATION.
5. ANODE ASSEMBLIES SHALL BE PLACED SUCH THAT THE ANODE BE SUBMERGED A MINIMUM OF 3'-0" BELOW MEAN LOW WATER ELEVATION AT ALL TIMES. SPACING AND ELEVATION ADJUSTMENTS SHALL BE APPROVED BY THE ENGINEER.
6. PER EXISTING PLANS, TYPICAL CONCRETE COVER ON EXISTING PIER WALL IS 4".
7. WELDING OF S.S. ROD TO THE REBAR IN LIEU OF DRILL AND TAP MAY BE APPROVED AT THE DISCRETION OF THE ENGINEER.
8. ELECTRICAL CONTINUITY OF REINFORCING STEEL BETWEEN AT LEAST TWO OTHER CONNECTIONS SHALL BE PERFORMED PER CONNECTION PRIOR TO AND AFTER ANODE ASSEMBLY INSTALLATION.
9. IT IS THE CONTRACTORS RESPONSIBILITY TO LOCATE REINFORCING STEEL AND PATCH ALL CORES WITH APPROVED CONCRETE REPAIR MATERIAL.
10. PAYMENT FOR ALL WORK AND HARDWARE DESCRIBED ASSOCIATED WITH FURNISHING AND INSTALLING OF THE ZINC ANODES SHALL BE INCIDENTAL TO THE PAY ITEM FOR "CATHODIC PROTECTION - ZINC BULK ANODES".
11. THOROUGHLY CLEAR THE FOOTINGS OF MARINE GROWTH AND DEBRIS BEFORE PERFORMING ANY WORK ASSOCIATED WITH THE INSTALLATION OF THE PROPOSED BULK ANODES.



ANODE ASSEMBLY DETAIL
(FRONT VIEW)

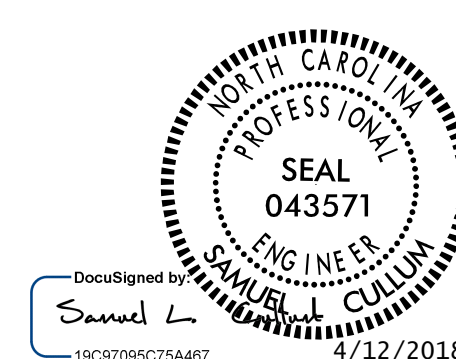


DETAIL "A"
CONNECTION TO EXISTING REBAR DETAIL
(SIDE VIEW)



DETAIL "B"
MONITORING JUNCTION BOX DETAIL
(FRONT VIEW)

PROJECT NO. 15BPR.25
BRUNSWICK COUNTY
BRIDGE NO. 14



STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH
**CHANNEL BENT
FOOTING RESTORATION**
BULK ANODE DETAILS
BENT 50 & 51

KCA 4800 SIX FORKS ROAD SUITE 120
KISINGER CAMPO & ASSOCIATES RALEIGH, NC 27609
(919) 882-7839

DRAWN BY : JACOB H. DUKE DATE : 03-2018
CHECKED BY : DIEGO A. AGUIRRE DATE : 03-2018
DESIGN ENGINEER OF RECORD : SAMUEL L. CULLUM DATE : 03-2018

REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	S-37
1			3			TOTAL SHEETS 111
2			4			

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED