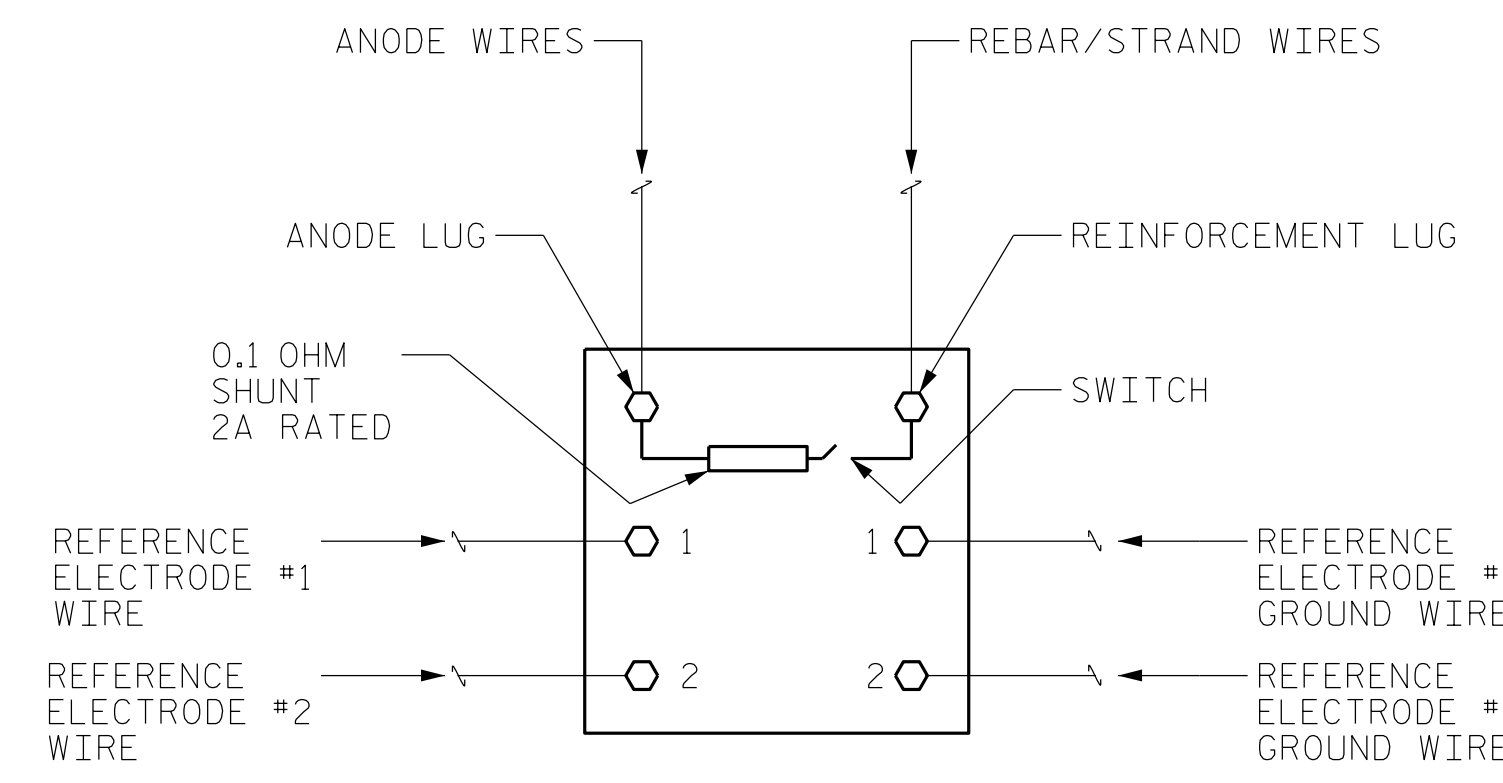


DETAIL 1 - ANODE CONNECTION PLATE DETAIL (CP NON-MONITORING)
(BREATHABLE COATING NOT SHOWN FOR CLARITY)



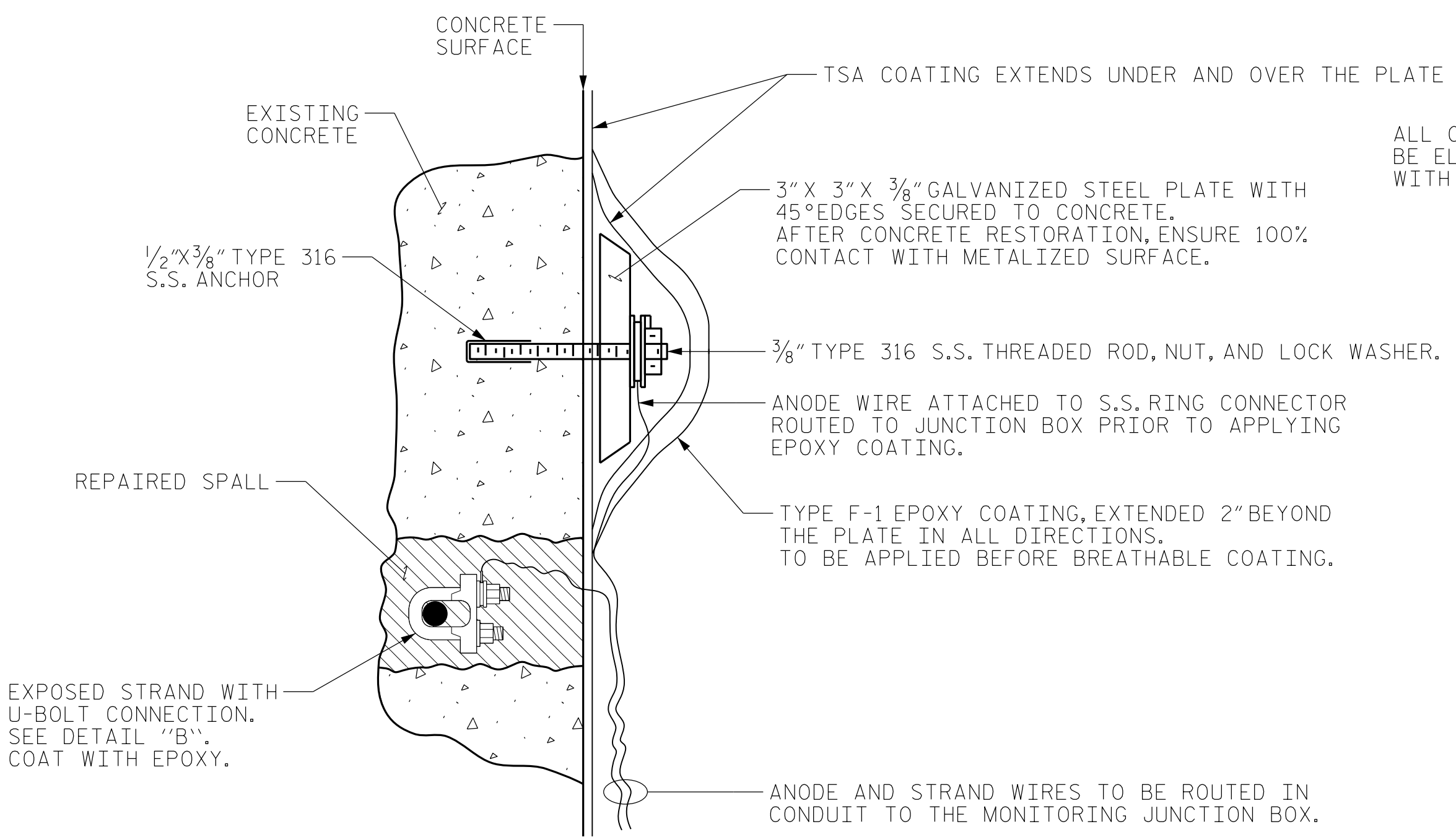
DETAIL 3 - MONITORING JUNCTION BOX DIAGRAM

STRAND SPLICE/CONTINUITY REPAIR NOTES:

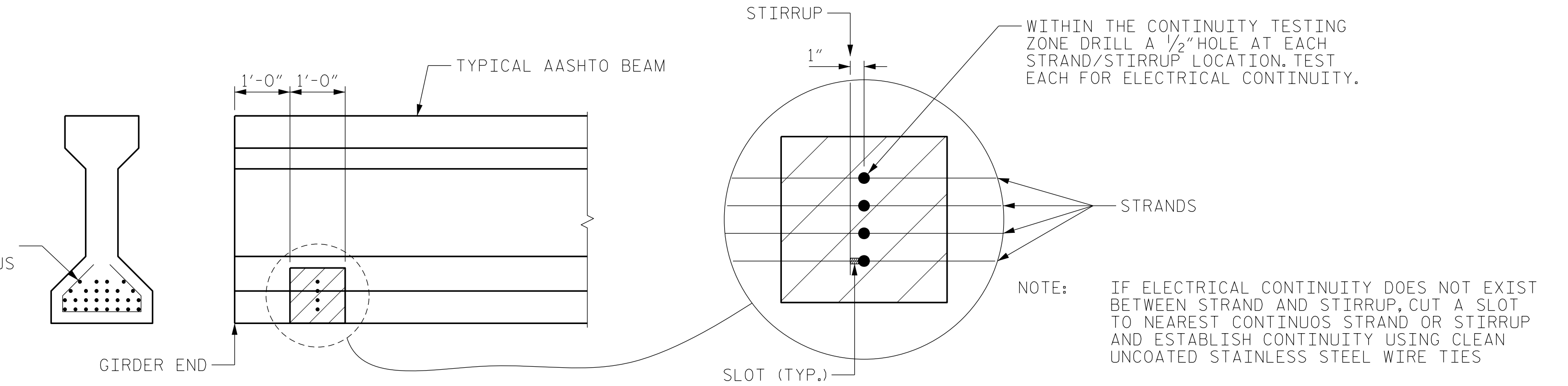
1. THE CONTRACTOR SHALL EXERCISE EXTREME CAUTION NOT TO DAMAGE THE EXISTING PRESTRESSING STRANDS. IF EXISTING STRANDS ARE DAMAGED, THE CONTRACTOR SHALL NOTIFY THE ENGINEER FOR ADDITIONAL INSTRUCTIONS ON THE APPLICABLE REPAIR METHOD.
2. STRAND LOSS GREATER THAN 50% SHALL BE TREATED AS BROKEN.

REFERENCE ELECTRODE NOTES:

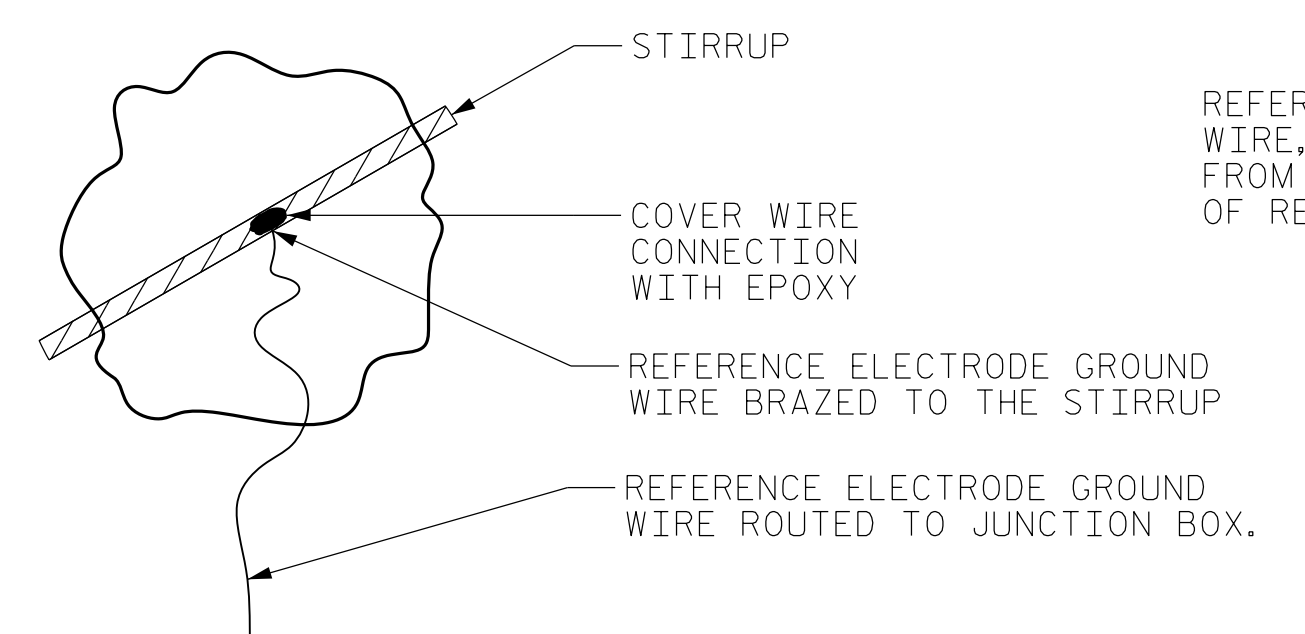
1. THE REFERENCE ELECTRODE GROUND WIRE IS ALLOWED TO BE BRACED TO A STIRRUP, PROVIDED THE BRACING CONNECTION IS A MINIMUM OF 18" AWAY FROM THE INTENDED REFERENCED ELECTRODE INSTALLATION LOCATION (SEE DETAIL 6).
2. DO NOT EXPOSE STRAND/REBAR/STIRRUP WHILE INSTALLING REFERENCE ELECTRODE.
3. THE REFERENCE ELECTRODE SHALL BE INSTALLED PARALLEL TO STRANDS. FILL THE EXCAVATION HOLE WITH APPROVED PORTLAND CEMENT PATCHING GROUT WITH 15,000 OHM-CM RESISTIVITY OR LESS. THE REFERENCE ELECTRODE SHALL BE FULLY ENCAPSULATED WITH CEMENTICIOUS BACKFILL MATERIAL. NO VOIDS SHALL BE PERMITTED.
4. THE WIRES FOR THE REFERENCE ELECTRODE SHALL BE ROUTED INSIDE THE CONDUIT TO THE JUNCTION BOX WITHOUT SPLICING.



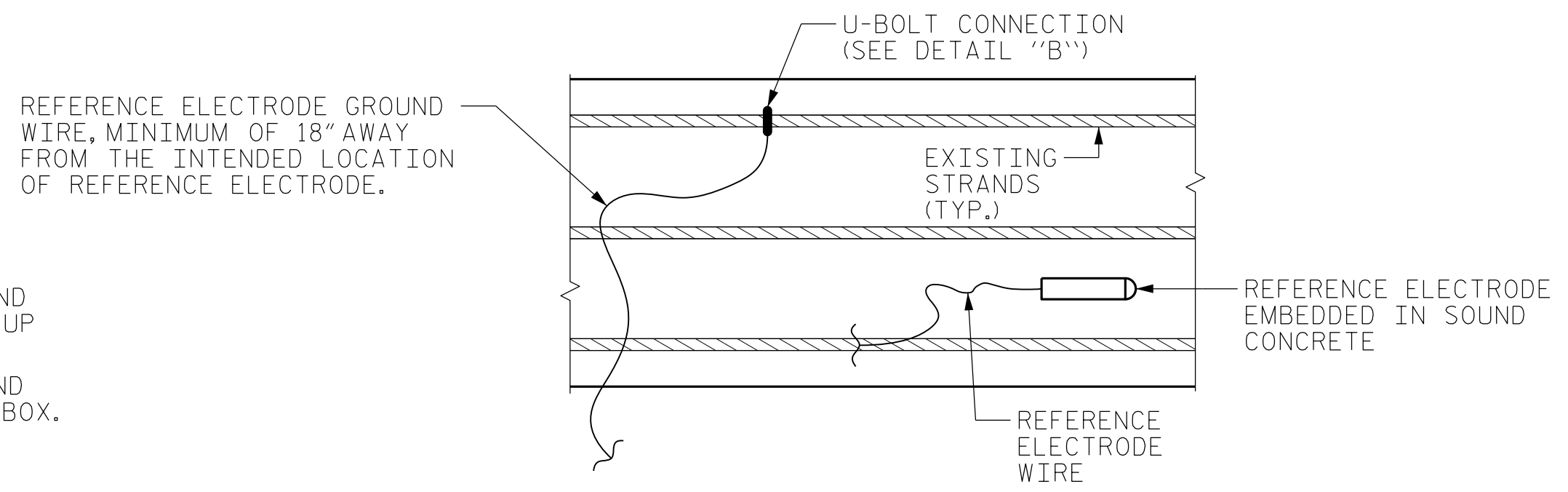
DETAIL 1 - ANODE CONNECTION PLATE DETAIL (CP MONITORING)
(BREATHABLE COATING NOT SHOWN FOR CLARITY)



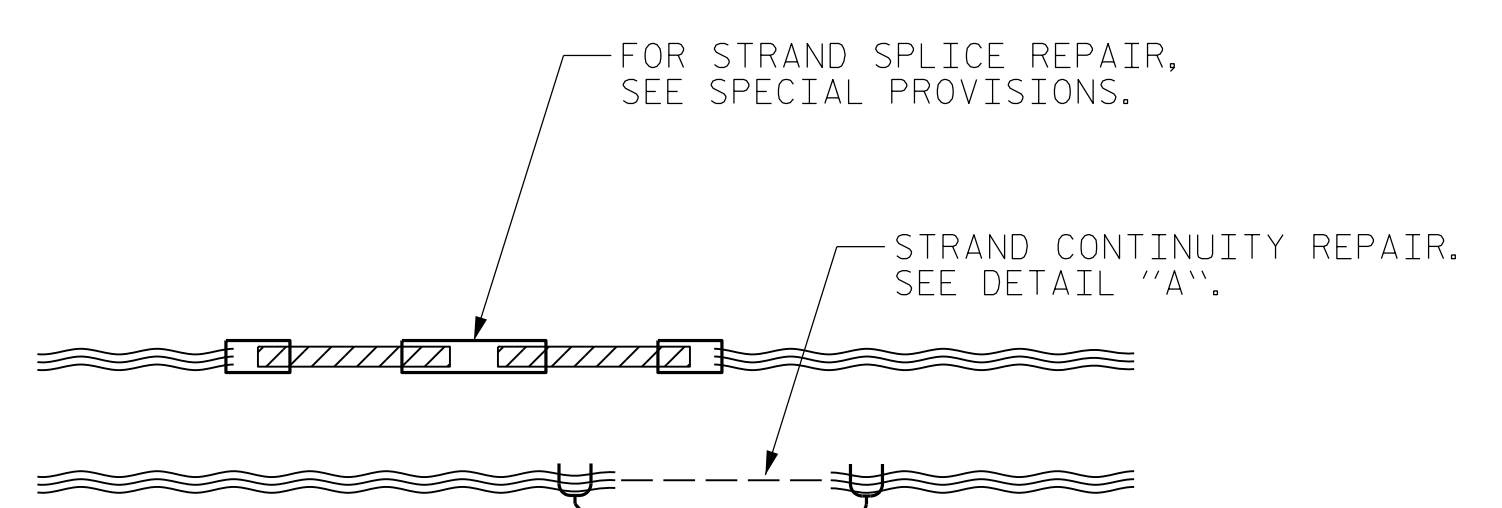
DETAIL 4 - TYPICAL CONTINUITY TESTING AND CORRECTION ZONE



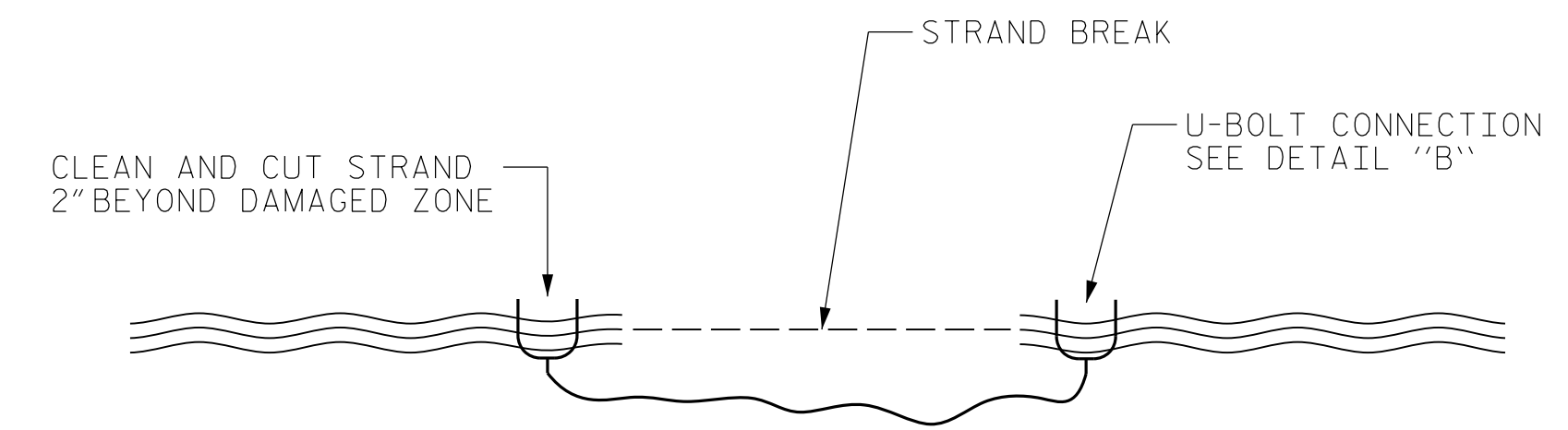
DETAIL 5 - REFERENCE ELECTRODE GROUNDING DETAIL



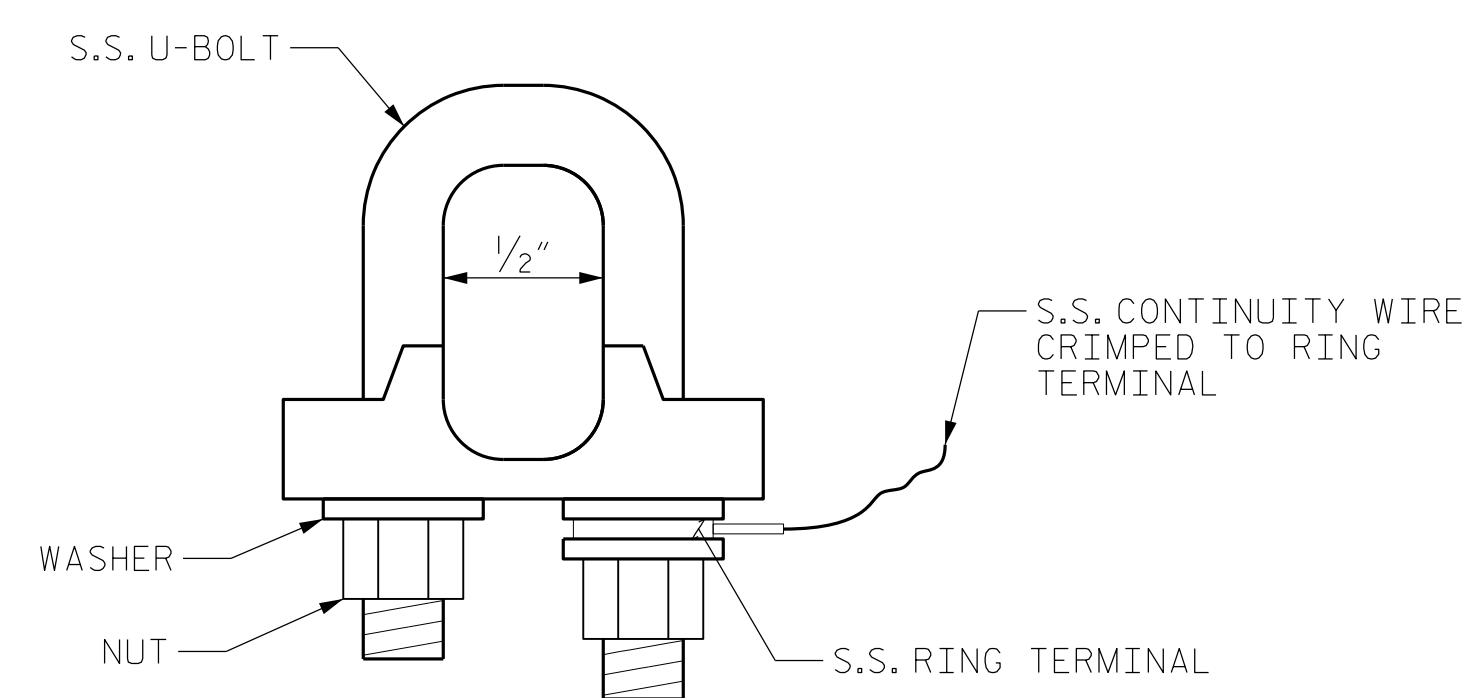
DETAIL 6 - REFERENCE ELECTRODE INSTALLATION
(MONITORING GIRDER)



STRAND SPLICE/CONTINUITY REPAIR



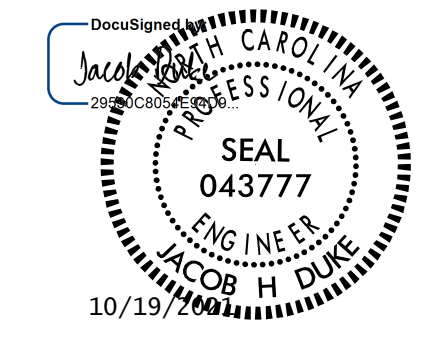
DETAIL "A"
STRAND CONTINUITY REPAIR



DETAIL "B"
U-BOLT CONNECTION DETAIL

PROJECT NO. 15BPR.46
DARE COUNTY
 BRIDGE NO. 270012

SHEET 2 OF 2



STATE OF NORTH CAROLINA
 DEPARTMENT OF TRANSPORTATION
 RALEIGH
CATHODIC PROTECTION
 ZINC ALUMINUM SPRAY
 FOR BEAMS
 (SPANS 34-73)

REVISIONS						TOTAL SHEETS
NO.	BY:	DATE:	NO.	BY:	DATE:	S-56
1			3			137
2			4			

DRAWN BY : JACOB H. DUKE DATE : 9/30/2020
 CHECKED BY : DIEGO A. AGUIRRE DATE : 10/1/2020
 DESIGN ENGINEER OF RECORD: JACOB H. DUKE DATE : 10/1/2020

DOCUMENT NOT CONSIDERED
 FINAL UNLESS ALL
 SIGNATURES COMPLETED