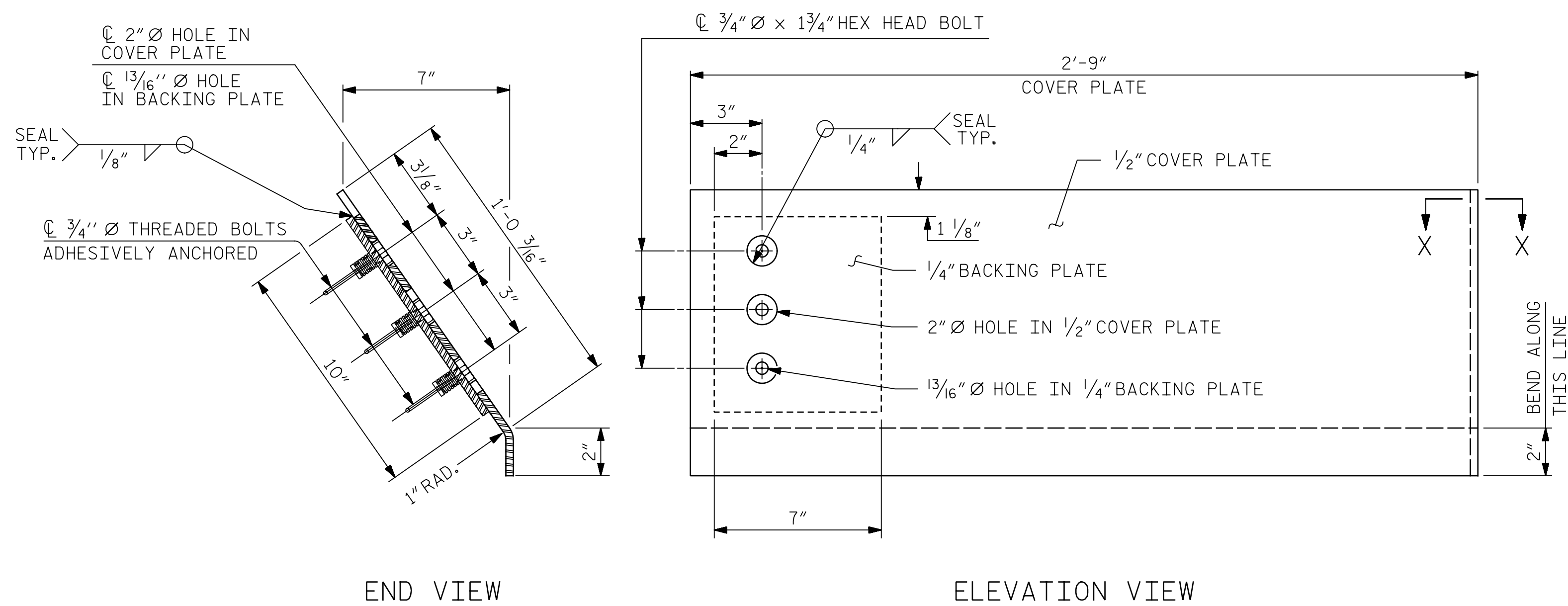


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COVER PLATE DETAILS

NOTES

ALL PLATES SHALL CONFORM TO AASHTO M270 GRADE 36 STEEL OR APPROVED EQUAL. ALL HOLD-DOWN BOLTS SHALL CONFORM TO ASTM F593 ALLOY 304 STAINLESS STEEL AND WASHERS SHALL CONFORM TO ASTM F844 EXCEPT THEY SHALL BE MADE FROM ALLOY 304 STAINLESS STEEL.

SAW CUT AROUND EXTENDED COVER PLATE RECESS AREA TO A NOMINAL DEPTH OF 1/2". REMOVE CONCRETE WITHIN SAW CUT AREA TO MINIMUM 1/2" DEPTH.

CUT THE BOLTS IN THE EXISTING COVER PLATE FLUSH WITH THE SURFACE OF THE COVER PLATE RECESS.

FILL THE EXISTING COVER PLATE RECESS WITH A POLYMER MODIFIED CONCRETE REPAIR MATERIAL. CONTOUR THE FACE OF THE REPAIR MATERIAL TO MATCH THE GEOMETRY OF THE CONCRETE BARRIER RAIL.

THE CONTRACTOR SHALL DRILL OR CORE INTO THE EXISTING BARRIER RAIL TO INSTALL COVER PLATE ANCHORS. THE ANCHORS SHALL BE ADHESIVELY ANCHORED. ADHESIVE FOR ANCHORING SHALL BE ON THE NCDOT APPROVED PRODUCTS LIST. FOR ADHESIVELY ANCHORED ANCHOR BOLTS OR DOWELS, SEE ARTICLE 420-13 OF THE STANDARD SPECIFICATIONS.

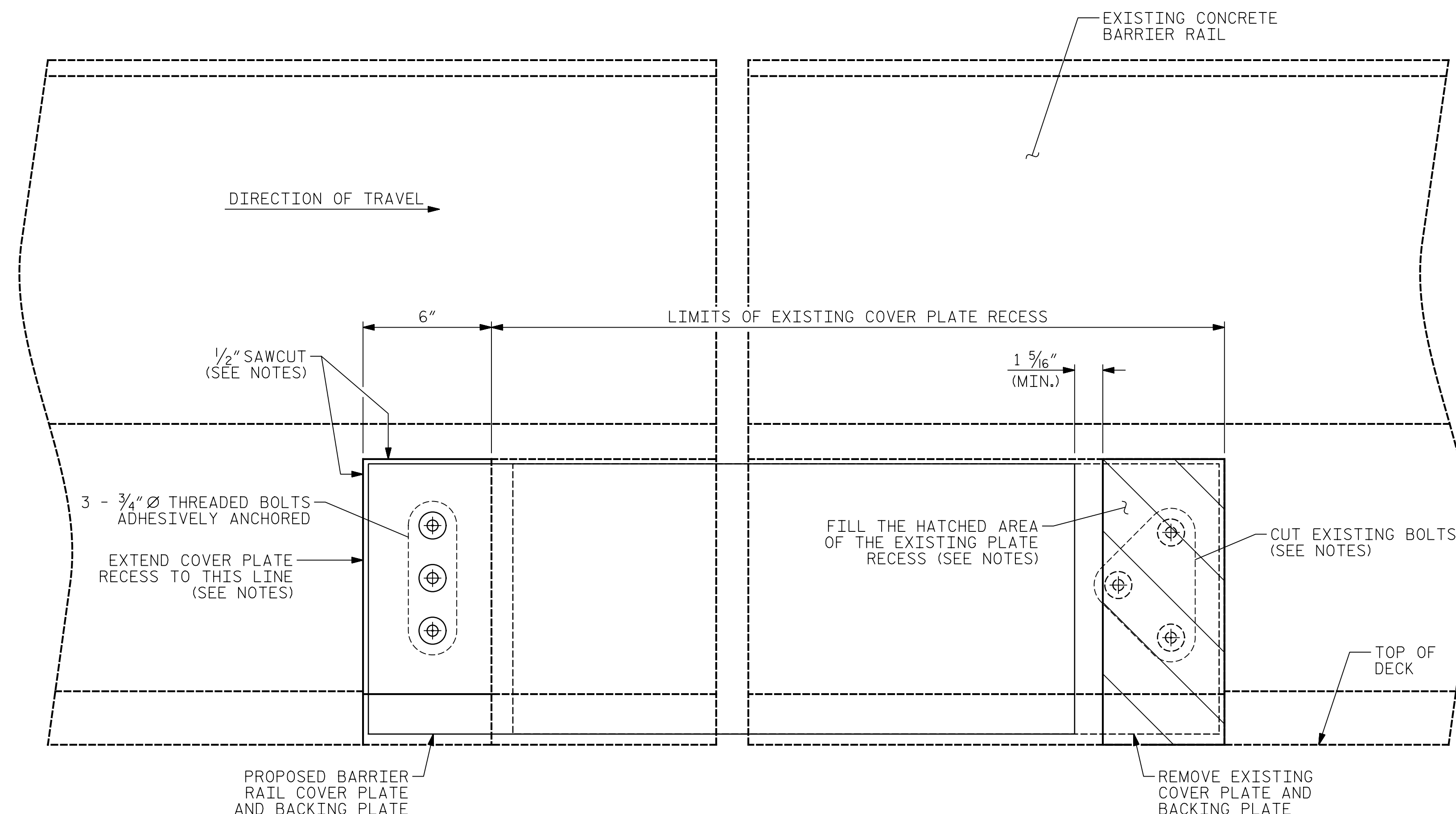
THE EMBEDMENT DEPTH OF THE THREADED ANCHORS SHALL BE 7" OR THE DEPTH RECOMMENDED BY THE ADHESIVE MANUFACTURER TO ATTAIN THE PULL-OUT STRENGTH OF THE DESIGN LOAD BELOW, WHICHEVER IS GREATER. FIELD TESTING OF THE ADHESIVE BONDING SYSTEM IS NOT REQUIRED.

ANCHOR DESIGN YIELD LOAD: 15 KIPS.

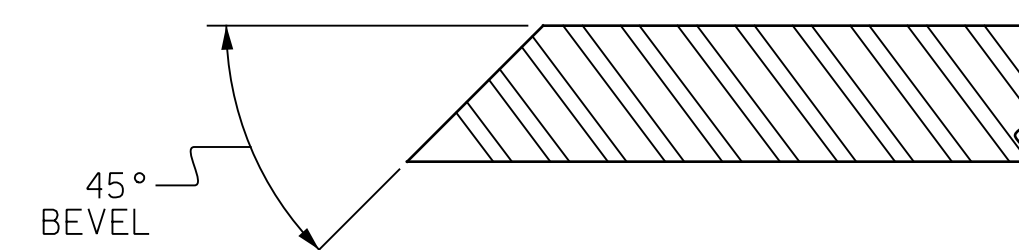
FOR EXPANSION JOINT SEAL REPAIR, SEE SPECIAL PROVISIONS.

FOR COVER PLATE REPLACEMENT LOCATIONS, SEE "PLAN OF SPAN" SHEETS.

NO SEPARATE PAYMENT WILL BE MADE FOR REMOVING AND REPLACING BARRIER RAIL COVER PLATES, INSTALLATION OF THE ADHESIVELY ANCHORED THREADED BOLTS, AND PLACEMENT OF REPAIR MATERIAL TO FILL THE EXISTING PLATE RECESS. THE ENTIRE COST OF THIS WORK SHALL BE INCLUDED IN THE UNIT PRICE BID FOR "EXPANSION JOINT SEAL REPAIR".



BARRIER RAIL COVER PLATE RECESS DETAILS



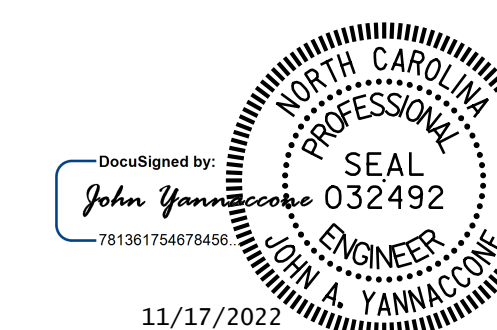
SECTION X-X

PROJECT NO. I-5955
GUILFORD COUNTY
 BRIDGE NO. 400364

SHEET 2 OF 2

STATE OF NORTH CAROLINA
 DEPARTMENT OF TRANSPORTATION
 RALEIGH

BARRIER RAIL COVER PLATE RECESS DETAILS



DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	S12-7
1			3			TOTAL SHEETS
2			4			127

DRAWN BY: J. MYA DATE: 10/2022
 CHECKED BY: J. YANNACCONE DATE: 10/2022