

NOTES

THE COST OF THE BARRIER RAIL ON THE APPROACH SLAB SHALL BE INCLUDED IN THE LINEAR FOOT CONTRACT PRICE BID FOR "CONCRETE BARRIER RAIL".

THE BARRIER RAIL ON EACH APPROACH SLAB SHALL NOT BE CAST UNTIL ALL APPROACH SLAB CONCRETE HAS BEEN CAST AND HAS REACHED A MINIMUM COMPRESSIVE STRENGTH OF 3,000 PSI.

ALL REINFORCING STEEL IN BARRIER RAILS SHALL BE EPOXY COATED.

SHIFT, BEND, OR CUT REINFORCING STEEL AS NECESSARY TO CLEAR JOINT BLOCKOUT.

#5D1 AND #5D2 SHALL BE MACHINE THREADED TO FIT TO COUPLER AND DELIVERED CONNECTED. THREADS SHALL BE GREASED TO PERMIT EASY SEPARATION AFTER INSTALLATION.

THE #5D1 COUPLED TO #5D2 OR #5D3 SHALL BE PUSHED INTO GREEN CONCRETE AFTER POURING AND SCREEDING THE DECK. THE COUPLER SHALL BE INSTALLED TO BE $^{3}\!\!_{16}$ " BELOW THE TOP OF THE FINISHED CONCRETE DECK ONCE DECK HAS CURED, #5D2 AND #5D3 SHALL BE UNTHREADED AND SET ASIDE. A TEMPORARY BOLT SHALL BE INSTALLED IN THE COUPLER AND SEALED TO PREVENT DEBRIS INTRUSION AND PROTECT THE THREADS. WHEN CONSTRUCTING THE STAGE III CONCRETE BARRIER, REMOVE SEALER AND TEMPORARY BOLT AND THREAD #5D2 AND #5D3 IN TO COUPLER.

PRIOR TO CURING, THE AREA UNDERNEATH THE STAGE III RIGHT CONCRETE BARRIER SHALL BE RAKE FINISHED TO A SURFACE ROUGHNESS OF $\frac{3}{16}$ "

THE CONTRACTOR MAY SUBMIT ALTERNATIVE DETAILS FOR ANCHORING THE MEDIAN BARRIER INTO THE DECK TO THE ENGINEER FOR REVIEW PRIOR TO CONSTRUCTION OF THE DECK. ANY ALTERNATIVE METHODS APPROVED FOR CONSTRUCTION SHALL BE AT NO ADD'L COST TO THE DEPARTMENT.

S1. S2. D1. D2 AND D3 BARS IN THE BARRIER AND DECK SHALL BE SHIFTED SLIGHTLY, AS NECESSARY, TO PROVIDE 2" MIN. CLEARANCE TO ALL OPEN JOINTS IN THE BARRIER.

THE CONTRACTOR SHALL SUBMIT WORKING DRAWINGS FOR THE D1, D2, D3 AND COUPLER PRIOR TO FABRICATION TO ENSURE PROPER FIT.

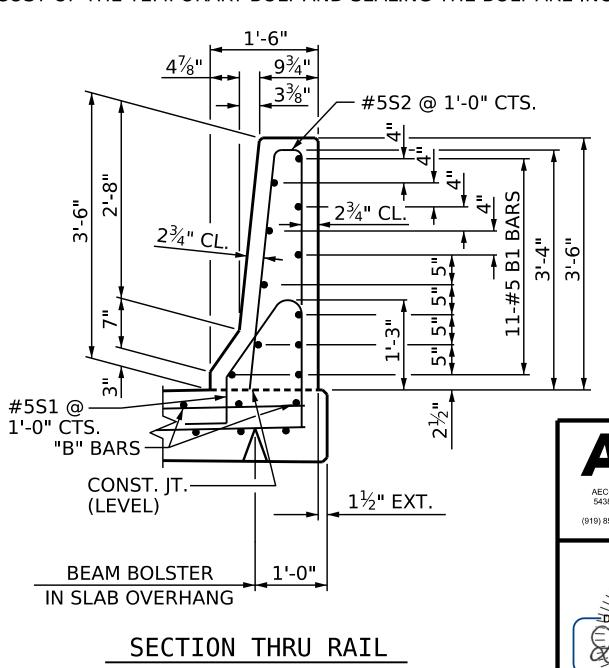
DO NOT GROOVE WITHIN 6" OF EXPOSED BARRIER COUPLERS IN DECK SURFACE.

FOR MECHANICAL COUPLERS, SEE SPECIAL PROVISIONS.

FINAL STAGE BARRIER COUPLER NOTES

- INSTALL #5 "D" BARS (WITH FEMALE COUPLER END) IN DECK AT LOCATIONS SHOWN ON "CONCRETE BARRIER RAIL" SHEET.
- 2. INSTALL TEMPORARY BOLT INTO COUPLER, BOLT SHALL NOT PROJECT ABOVE THE TOP OF THE DECK.
- 3. BOLT HEAD SHALL BE PROTECTED TO ALLOW FOR REMOVAL AFTER CURING OF DECK, ENGINEER SHALL APPROVE METHOD.
- 4. POUR AND SCREED DECK.
- 5. AT FINAL STAGE, REMOVE BOLT TO INSTALL #5 "D" BAR (WITH THREADED END) FOR FINAL STAGE BARRIER.

COST OF THE TEMPORARY BOLT AND SEALING THE BOLT ARE INCIDENTAL.



FINAL UNLESS ALL SIGNATURES COMPLETED

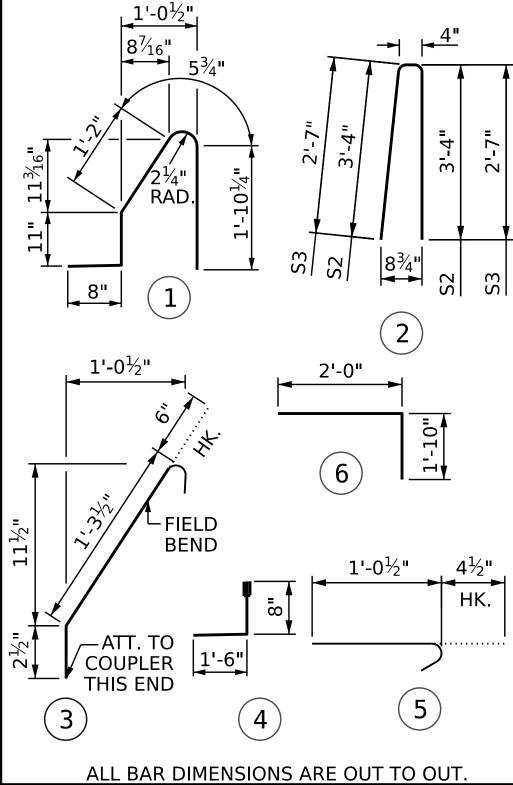
BILL OF MATERIAL CONCRETE BARRIER RAIL NO. SIZE | TYPE | LENGTH | BAR WEIGHT * B1 44 444 STR 9'-8" * S1 66 350 5'-1" * S2 62 7'-0" 453 ***** S3 5'-6" 23 5 2 4 2'-2" 217 96 * D1 48 2'-0" 100 * D2 163 * D3 48 5 STR 3'-3" 1750 LBS. ***** EPOXY COATED

REINFORCING STEEL 19.0 C.Y. **CLASS AA CONCRETE**

70.0 L.F.

BAR TYPES

CONCRETE BARRIER RAIL



PROJECT NO. B-3186 / B-5898 **HAYWOOD** COUNTY 24+70.00 -L LT-STATION:

SHEET 4 OF 4

AECOM AECOM TECHNICAL SERVICES OF NC. INC RALEIGH, NC 27607 (919) 854-6200 www.aecom.com AECOM License No. F-0342 DOCUMENT NOT CONSIDERED 10/13/2023

DEPARTMENT OF TRANSPORTATION

STATE OF NORTH CAROLINA

APPROACH SLAB **DETAILS**

SHEET NO. REVISIONS S3-49 DATE: DATE: BY: TOTAL SHEETS 50

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