8/17/99

NOTES:

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

THE MOMENT SLAB AND BARRIER RAIL SHALL BE CLASS AA CONCRETE.

ALL REINFORCING STEEL IN THE BARRIER RAIL AND MOMENT SLAB SHALL BE EPOXY COATED.

GROOVED CONTRACTION JOINTS, 1/2" IN DEPTH, SHALL BE TOOLED IN ALL EXPOSED FACES OF THE BARRIER RAIL AND MOMENT SLAB IN ACCORDANCE WITH ARTICLE 825-10(B) OF THE STANDARD SPECIFICATIONS. THE CONTRACTION JOINT SHALL BE LOCATED APPROXIMATELY AT EACH QUARTER POINT BETWEEN RAIL EXPANSION JOINTS.

FIELD BEND BARS AS NECESSARY.

BELOW MOMENT SLAB, PROVIDE 6" MINIMUM THICKNESS OF CLASS VI SELECT MATERIAL FOUNDATION CONDITIONING MATERIAL.

TRANSITION BARRIER RAIL FROM FULL HEIGHT TO MATCH ATTENUATOR HEIGHT AT THE END OF RAIL OVER A 10'-0" LENGTH. FIELD CUT #5 S1 AND BEND #5 "B" BARS IN RAIL TO FIT.

MINIMUM SPLICE LENGTH: #5 = 3'-1".

CONTRACTOR TO VERIFY LOCATION OF PROPOSED DRAINAGE JUNCTION BOX BEFORE CASTING MOMENT SLAB. ADJUST LIMITS OF MOMENT SLAB AS NEEDED TO MAINTAIN CLEARANCE.

VERTICAL CONCRETE BARRIER RAIL ON MOMENT SLAB TO BE A ROADWAY PAY ITEM.

ALL REINFORCMENT TO MAINTAIN A MINIMUM 2" CLEAR COVER U.N.O.

F.O.B. = FACE OF BARRIER RAIL.

E.O.S. = EDGE OF SLAB.

T.O.S. = TOP OF SLAB.

B.O.S. = BOTTOM OF SLAB.

FOR MULTI-USE PATH LIGHTING DETAILS, SEE ELECTRICAL PLANS.

△ 6-#5 B8

△ △ 8-#5 B9 BARS IN STEM

✳ 4-#5 S1, #5 S2, #5 B1 (B.O.S.) AND #7 B2 (T.O.S.) @ 1'-0" CTS. (MAX.)

✳✳ STA. 24+90.69 -L- OFFSET 16'-0"

✳✳✳ STA. 24+94.42 -L- OFFSET 16'-0"

⊕ 3/4" PVC CONDUIT FOR MULTI-USE PATH LIGHTING

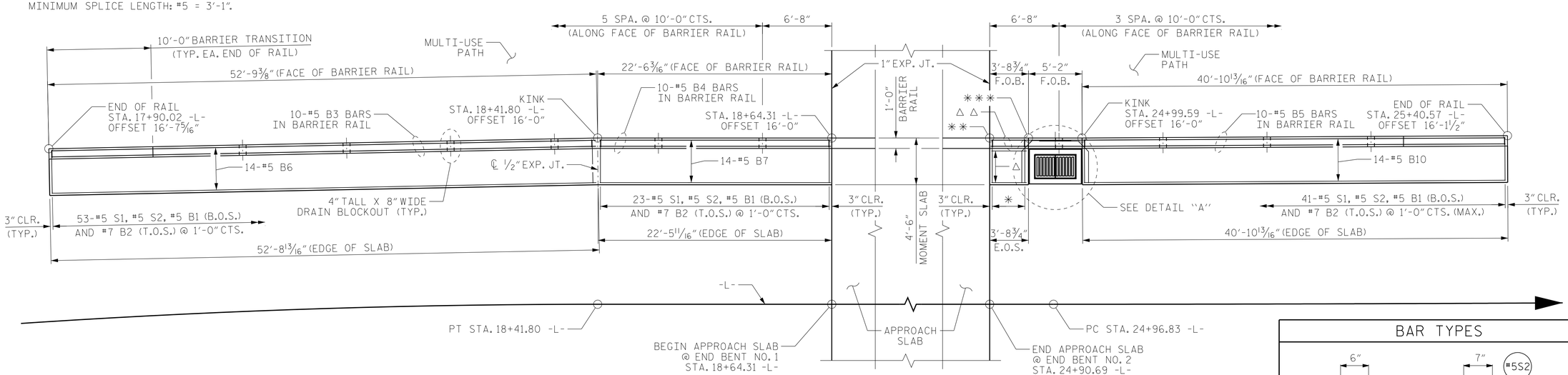
PROJECT REFERENCE NO.	SHEET NO.
BR-0160	2B-2

ROADWAY DESIGN ENGINEER — NORTH CAROLINA PROFESSIONAL SEAL 040418 ENGINEER Donald W. Conard — 3/14/2023

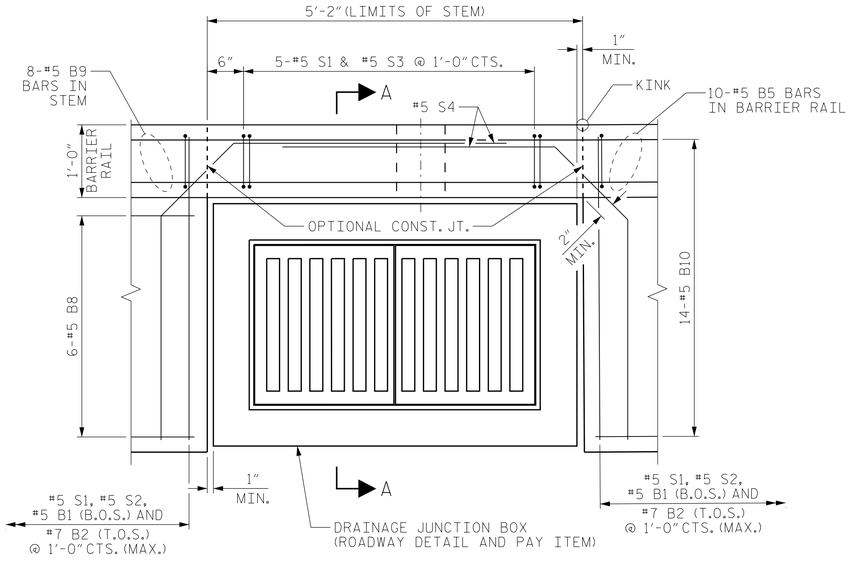
STRUCTURE DESIGN ENGINEER — NORTH CAROLINA PROFESSIONAL SEAL 18442 ENGINEER Clayton Leon Bollinger — 3/14/2023

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

RS&H — 8521 SIX FORKS ROAD, SUITE 400, RALEIGH, NC 27615, NC FIRM LICENSE No: F-0493

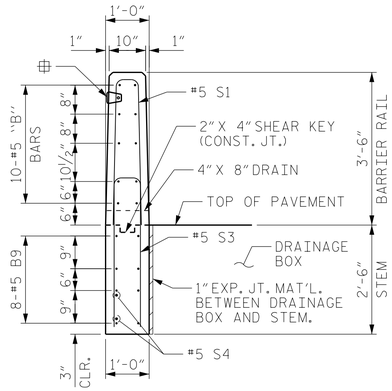


PLAN



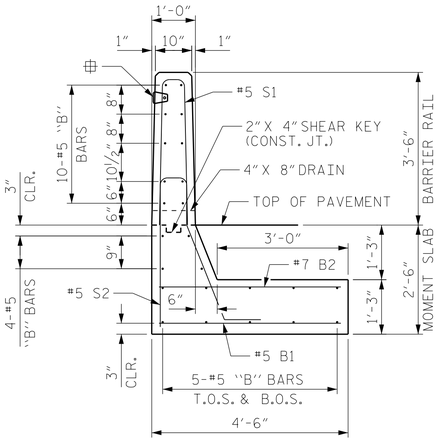
DETAIL "A"

(#5 B9 BARS TO SPLICE WITH #5 B10 BARS AFTER KINK POINT)



SECTION A-A

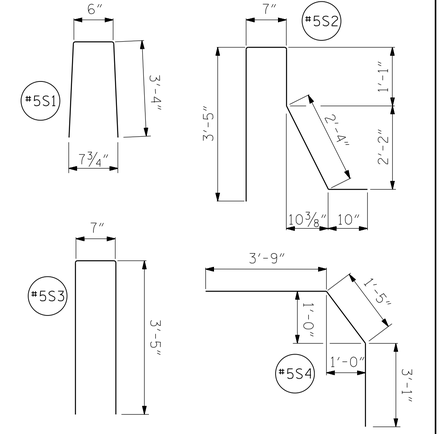
(LOOKING UPSTATION)
(DRAINAGE BOX NOT SHOWN FOR CLARITY)



SECTION THRU RAIL

(LOOKING UPSTATION)

BAR TYPES



ALL BAR DIMENSIONS ARE OUT TO OUT

✳EPOXY COATED REINFORCING STEEL	6,688 LBS.
CLASS AA CONCRETE	47.2 CU. YDS.

QUANTITIES SHOWN ARE FOR BIDDING PURPOSES ONLY.

TITLE:
42" SLOTTED VERTICAL CONCRETE BARRIER WITH MOMENT SLAB DETAIL

TIP NO.:	COUNTY:
BR-0160	BRUNSWICK
DESIGNED BY: N. CUANY, PE	CHECKED BY: M. O'CONNOR, PE

13-MAR-2023 14:32
C:\Users\ncuany\Documents\Projects\Transportation\PV\1034226004_BR-0160 Brunswick 15\Design\Structures\eng data\Misc\Barrier Design\Moment Slab Detail.dgn
$$$$USERNAME$$$$