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STATE OF NORTH CAROLINA DEPT. OF TRANSPORTATION DIVISION OF HIGHWAYS RALEIGH, N.C.

ROADWAY DETAIL DRAWING FOR STRUCTURE ANCHOR UNITS GUARDRAIL ANCHOR UNIT TYPE B-83

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STATE OF NORTH CAROLINA DEPT. OF TRANSPORTATION DIVISION OF HIGHWAYS RALEIGH, N.C.

SECTION A-A

ELEVATION VIEW

NOTE:
 **ELIMINATE POST 3 AND SHIFT POSTS 1 & 2 ON SKEW ANGLES GREATER THAN 15° OR LESS THAN 30° UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
 **ELIMINATE POST 1 AND 2 ON SKEW ANGLES GREATER THAN 15° OR LESS THAN 30° UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
 -USE GUARDRAIL FROM END OF BRIDGE TO END OF FIRST SPICE POINT.
 -USE WOOD CURB ON TOP OF BRIDGE SURFACE (SHOULDER, BERM, OR GUTTER).
 -USE NO WOOD POSTS WITHIN THE GUARDRAIL ANCHOR UNIT LIMITS.
 -LAP JOINTS IN THE DIRECTION OF TRAFFIC FLOW.
 -POSTS 1 AND 2 TO BE W8 X 21 X 8'-0" LONG STEEL POST AND 8" X 8" X 14" WOOD ROUTED OFFSET BLOCK.
 -SHOULDER BERM GUTTER IS REQUIRED IF NO CURBING EXISTS THROUGH ANCHOR UNIT PAY LIMITS.
 -ANCHOR THE W-BEAM END SIDE USING A 4 BOLT HOLD DOWN PLATE AS SHOWN IN STANDARD 862-04

SECTION B-B

SECTION B-B

SEE STANDARD 862-04 FOR DRAINAGE INSTALLATION IN SHOULDER BERM GUTTER

SECTION C-C

SECTION C-C

SECTION D-D

SECTION D-D

SECTION E-E

SECTION E-E

SECTION F-F

SECTION F-F

GUARDRAIL ANCHOR UNIT TYPE B-83

TRANSITION APPROACH SLAB CURB TO SHOULDER BERM GUTTER

GUARDRAIL ANCHOR UNIT TYPE B-83

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ROADWAY DETAIL DRAWING FOR STRUCTURE ANCHOR UNIT GUARDRAIL ANCHOR UNIT TYPE B-77 FOR F-SHAPE BARRIER

ROADWAY DETAIL DRAWING FOR STRUCTURE ANCHOR UNIT GUARDRAIL ANCHOR UNIT TYPE B-77 FOR F-SHAPE BARRIER

STATE OF NORTH CAROLINA DEPT. OF TRANSPORTATION DIVISION OF HIGHWAYS RALEIGH, N.C.

SECTION A-A

SECTION A-A

SECTION B-B

POST	THICKNESS	BOLT LENGTH
1	4 1/4"	9"
2	3 1/4"	5"
3	2"	6"
4	1"	3"

* BOLTS FOR POSTS 3 AND 4 ARE USED TO BOLT BLOCK POST. RUBRAIL NOT ATTACHED TO BLOCK.

SECTION C-C

SECTION C-C

SECTION D-D

SECTION D-D

SECTION E-E

SECTION E-E

SECTION F-F

SECTION F-F

SECTION G-G

SECTION G-G

SECTION H-H

SECTION H-H

SECTION I-I

SECTION I-I

SECTION J-J

SECTION J-J

GUARDRAIL ANCHOR UNIT TYPE B-77

SLOPED RUBRAIL BLOCKOUT

GUARDRAIL ANCHOR UNIT TYPE B-77

ROADWAY DETAIL DRAWING FOR STRUCTURE ANCHOR UNITS GUARDRAIL ANCHOR UNIT TYPE B-77 FOR F-SHAPE BARRIER

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CONTRACT STANDARDS AND DEVELOPMENT UNIT

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SEE TITLE BLOCK

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