

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

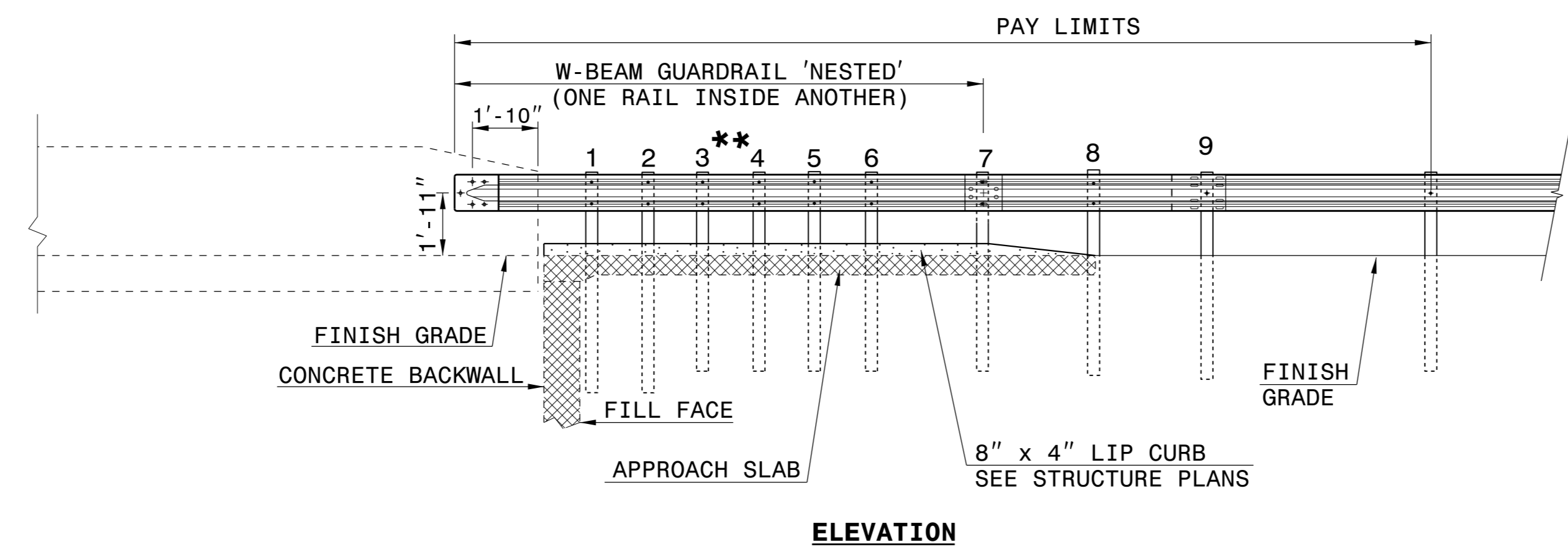
ENGLISH DETAIL DRAWING FOR  
**MODIFIED B-83 - SHOP CURVED  
STRUCTURE ANCHOR UNIT**

SHEET 1 OF 1  
**MOD B-83**

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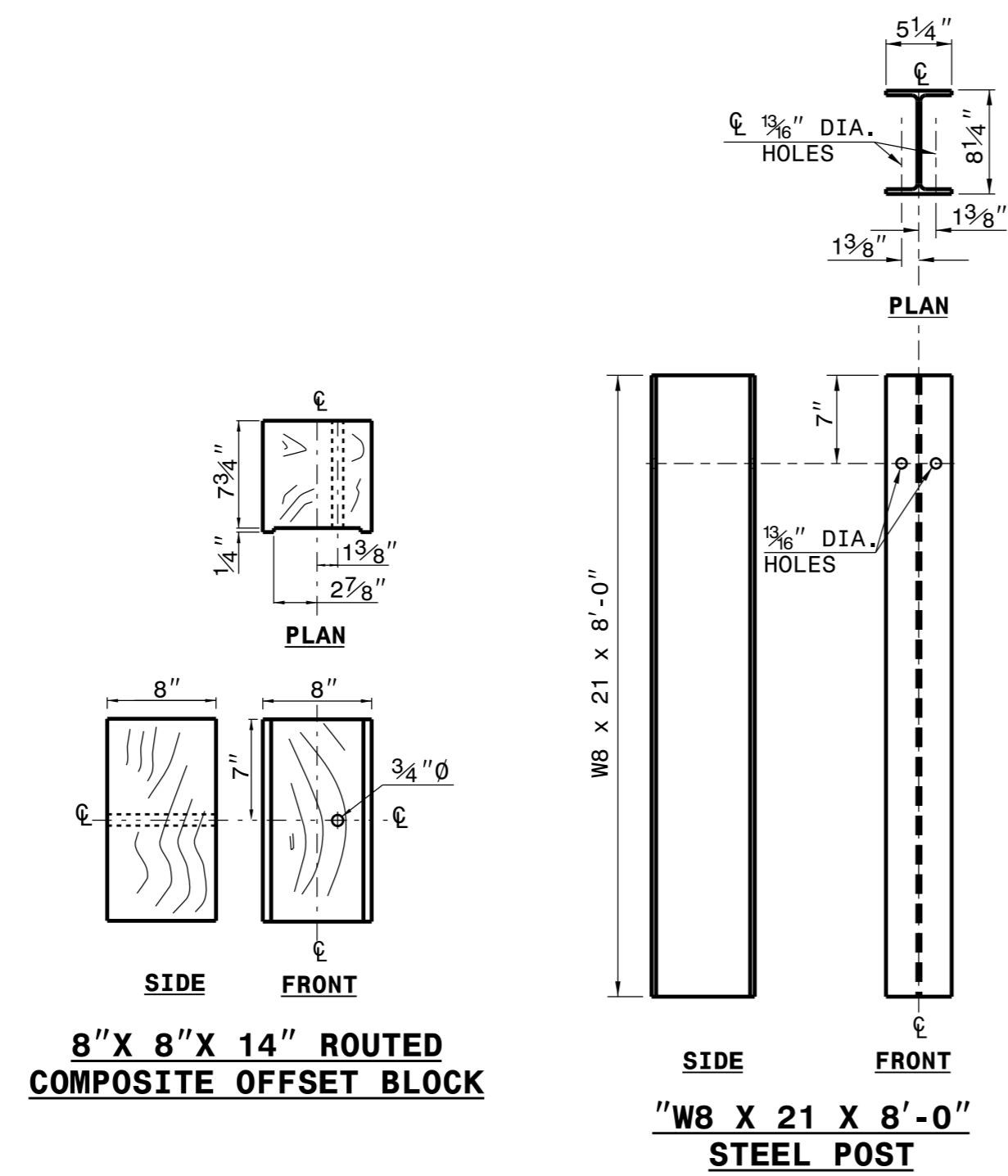
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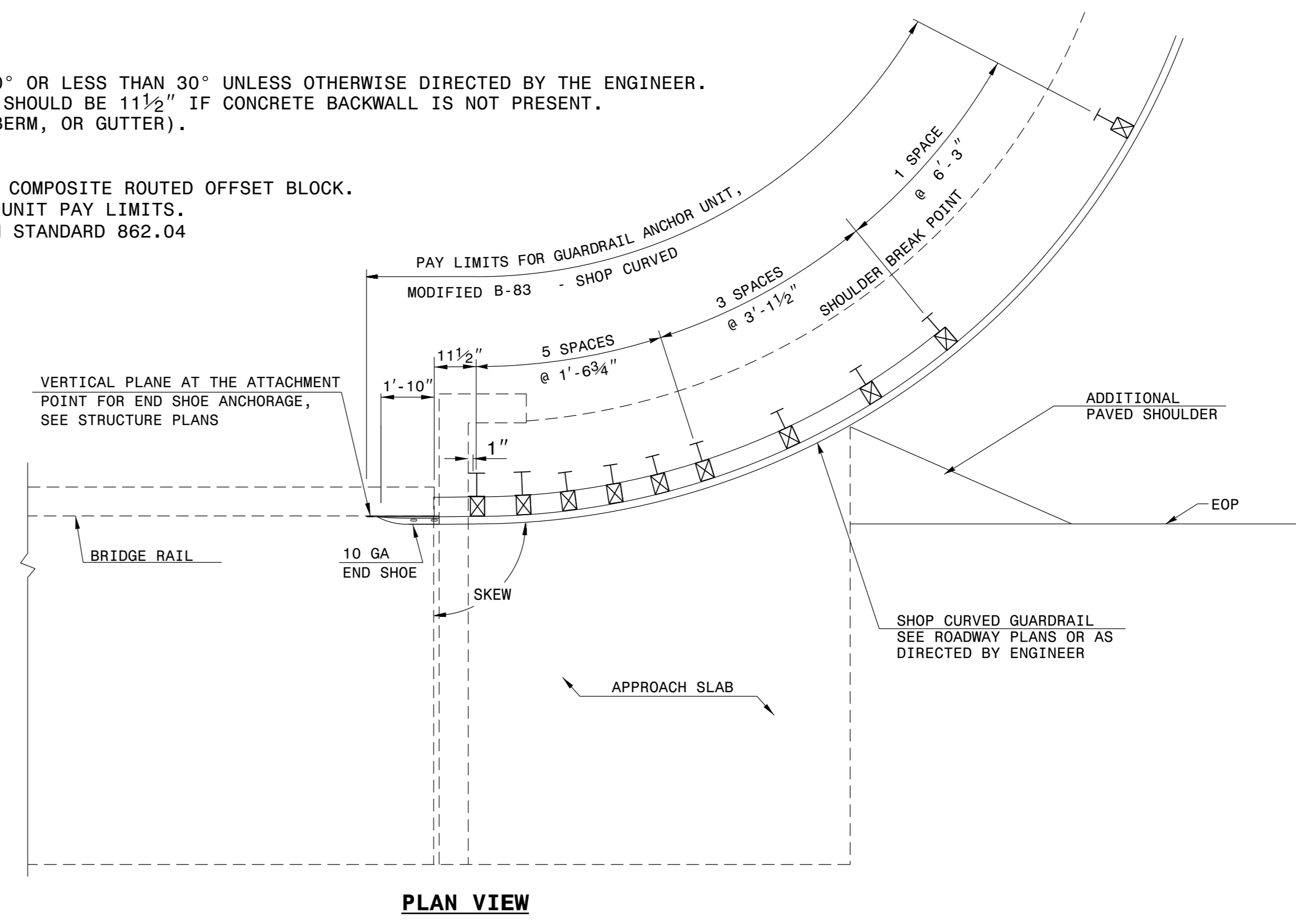
**ELEVATION**

- NOTE:
- \*\*ELIMINATE POST 3 AND SHIFT POSTS 1 & 2 ON SKEW ANGLES GREATER THAN 150° OR LESS THAN 30° UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
  - \*THE DISTANCE FROM END OF BRIDGE RAIL TO CENTER LINE OF THE FIRST POST SHOULD BE 11½" IF CONCRETE BACKWALL IS NOT PRESENT.
  - MEASURE GUARDRAIL HEIGHT FROM THE TOP OF ADJACENT 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" COMPOSITE ROUTED OFFSET BLOCK.
  - SHOULDER BERM GUTTER IS REQUIRED IF NO CURBING EXISTS THROUGH ANCHOR UNIT PAY LIMITS.
  - ANCHOR THE W-BEAM END SHOE USING A 4 BOLT HOLD DOWN PLATE AS SHOWN IN STANDARD 862.04



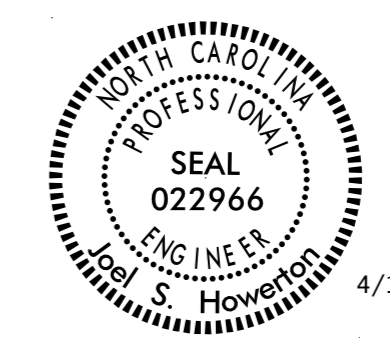
**8" X 8" X 14" ROUTED  
COMPOSITE OFFSET BLOCK**

**"W8 X 21 X 8'-0"  
STEEL POST**



**PLAN VIEW**

**GUARDRAIL ANCHOR UNIT, MODIFIED B-83 - SHOP CURVED  
FOR ATTACHMENT TO RAIL ON BRIDGE**



DocuSigned by:  
Joel S. Howerton  
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DOCUMENT NOT CONSIDERED FINAL  
UNLESS ALL SIGNATURES COMPLETED

CONTRACT STANDARDS & DEVELOPMENT UNIT  
STANDARDS AND SPECIAL DESIGN  
Office 919-707-6950 FAX 919-250-4119

**SEE PLATE FOR TITLE**

ORIGINAL BY: \_\_\_\_\_ DATE: \_\_\_\_\_  
MODIFIED BY: rnbritt DATE: 01-05-2017  
CHECKED BY: jhowerton DATE: 01-05-2017  
FILE SPEC. details/rbrrt/english/bridge/b5400 modified\_b83.dgn

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