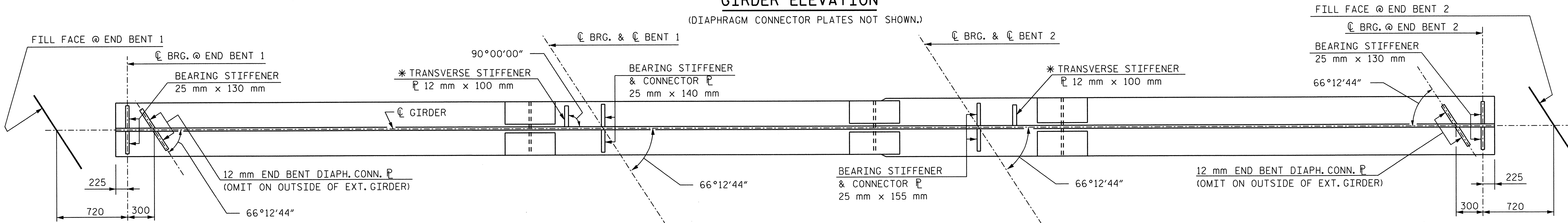


GIRDER ELEVATION

(DIAPHRAGM CONNECTOR PLATES NOT SHOWN.)



BOTTOM FLANGE DETAIL

(INTERIOR GIRDER SHOWN, EXTERIOR GIRDER SIMILAR, EXCEPT AS NOTED.)

NOTES:

- ALL STRUCTURAL STEEL SHALL BE AASHTO M270 GRADE 345W AND PAINTED IN ACCORDANCE WITH SYSTEM 4 OF ARTICLE 442-7 OF THE STANDARD SPECIFICATIONS UNLESS OTHERWISE NOTED ON PLANS.
- ALL DIMENSIONS SHOWN ARE HORIZONTAL OR VERTICAL UNLESS OTHERWISE NOTED.
- ALL FIELD CONNECTIONS ARE TO BE 22.23 mm Ø HIGH STRENGTH BOLTS UNLESS OTHERWISE NOTED.
- CAMBERED GIRDER LENGTHS SHALL BE ADJUSTED AND BEARINGS ARE TO BE PLACED ON THE CAMBERED GIRDERS SO AS TO BE ALIGNED WITH THE ANCHORS AFTER THE DEAD LOAD DEFLECTION HAS OCCURRED. SHOP DRAWINGS SHALL BE PREPARED ACCORDINGLY.
- BEARING STIFFENERS ARE TO BE PLACED NORMAL TO THE WEB OF THE GIRDER AND SHALL BE PLUMB.

- SHOP SPLICES ARE PERMITTED TO LIMIT THE MAXIMUM REQUIRED FLANGE PIECE LENGTHS TO 18 m AND WEB PIECE LENGTHS TO 14 m. PERMITTED FLANGE AND WEB SHOP SPLICES SHALL NOT BE LOCATED WITHIN 4.5 m OF MAXIMUM DEAD LOAD DEFLECTION, (NOR WITHIN 4.5 m OF INTERMEDIATE BEARINGS OF CONTINUOUS UNITS). KEEP 600 mm MINIMUM BETWEEN WEB AND FLANGE SHOP SPLICES. KEEP 150 mm MINIMUM BETWEEN CONNECTOR PLATE OR TRANSVERSE STIFFENER WELDS AND WEB OR FLANGE SHOP SPLICES.
- STUDS ON GIRDERS MAY BE SHIFTED UP TO 25 mm IF NECESSARY TO CLEAR FLANGE SPLICE WELD.
- TENSION ON THE AASHTO M164 BOLTS SHALL BE CALIBRATED USING DIRECT TENSION INDICATOR WASHERS IN ACCORDANCE WITH ARTICLE 440-10 OF THE STANDARD SPECIFICATIONS.

- ① CHАРY V-NOTCH TESTS ARE REQUIRED FOR ALL TOP OR BOTTOM FLANGE PLATES WHICH FALL WITHIN THESE LIMITS, ALL WEB PLATES, AND ALL SPLICE PLATES. IF A PERMITTED SHOP FLANGE SPLICE IS NOT USED, CHАРY V-NOTCH TESTS WILL BE REQUIRED FOR THE ENTIRE TOP FLANGE PLATE. FOR CHАРY V-NOTCH TEST, SEE ARTICLE 1072-9 OF THE STANDARD SPECIFICATIONS.
- ② NO WELDING OF FORMS OR FALSEWORK TO THE TOP FLANGE WILL BE PERMITTED IN THIS REGION.

* PLACE ALL TRANSVERSE STIFFENERS ON THE INSIDE FACE OF THE WEB ON EXTERIOR GIRDERS.

PROJECT NO. R-2552AA
 WAKE / JOHNSTON COUNTY
 STATION: 19+25.877 -I1Y1- P.O.T.

SHEET 1 OF 4

STATE OF NORTH CAROLINA
 DEPARTMENT OF TRANSPORTATION
 RALEIGH

**SUPERSTRUCTURE
 GIRDER DETAILS**

JANUARY 2005

| NO. | | BY: | | DATE: | | NO. | | BY: | | DATE: | |
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SHEET NO. S-10
 TOTAL SHEETS 429

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DRAWN BY: B. PARRISH DATE: 01/05
 CHECKED BY: R. D. FAUTEUX DATE: 01/05

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 RICKY D. FAUTEUX
 2/14/05