

ELEVATION

(DIAPHRAGM CONNECTOR PLATES NOT SHOWN FOR CLARITY)



PLAN OF BOTTOM FLANGE

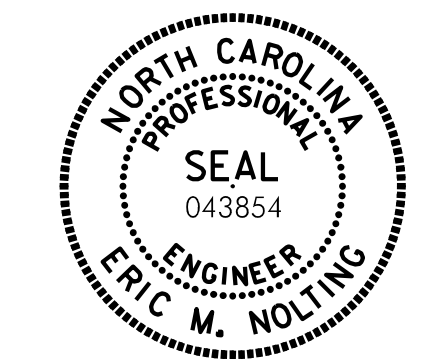
(INTERMEDIATE AND BENT DIAPHRAGM CONNECTOR PLATES NOT SHOWN FOR CLARITY)

NOTES

- ALL STRUCTURAL STEEL SHALL BE AASHTO M270 GRADE 50W AND PAINTED IN ACCORDANCE WITH SYSTEM 5 OR SYSTEM 6 OF THE STRUCTURAL STEEL SHOP COATINGS PROGRAM AND SECTION 442-8 OF THE STANDARD SPECIFICATIONS UNLESS OTHERWISE NOTED ON THE PLANS.
- ALL DIMENSIONS SHOWN ARE HORIZONTAL OR VERTICAL, UNLESS OTHERWISE NOTED.
- ALL FIELD CONNECTIONS TO BE 7/8" DIA. HIGH STRENGTH BOLTS UNLESS OTHERWISE NOTED.
- STIFFENERS ARE NOT REQUIRED ON THE OUTSIDE OF EXTERIOR BEAMS.
- A CHARTY V-NOTCH TEST IS REQUIRED ON ALL BEAM SECTIONS AND SPLICE PLATES AS SHOWN ON THE PLANS AND IN ACCORDANCE WITH ARTICLE 1072-7 OF THE STANDARD SPECIFICATIONS.
- WHERE DIAPHRAGMS ARE TO BE BOLTED TO EXISTING STEEL BEAMS, DO NOT REMOVE PAINT FROM THE CONTACT SURFACE.
- AT DIAPHRAGMS D1 AND D3, CONNECTION BOLTS ARE TO BE LOCATED AT THE BOTTOM OF THE CONNECTION SLOTS AND TIGHTENED TO A SNUG FIT PRIOR TO FIELD WELDING OPPOSITE END OF DIAPHRAGM. AFTER WELDING DIAPHRAGM TO CONNECTION ANGLE AND PRIOR TO THE POURING OF THE SLAB, BACK OFF BOLTS 1/2 TURN TO ALLOW FOR VERTICAL DEFLECTION OF NEW BEAM. AFTER DEFLECTIONS HAVE OCCURRED, TIGHTEN BOLTS AS REQUIRED BY THE STANDARD SPECIFICATIONS.
- TENSION ON THE ASTM A325 BOLTS SHALL BE CALIBRATED USING DIRECT TENSION INDICATOR WASHERS IN ACCORDANCE WITH ARTICLE 440-8 OF THE STANDARD SPECIFICATIONS.
- END OF BEAMS AND GIRDERS SHALL BE PLUMB.
- END DIAPHRAGM CONNECTOR PLATES MAY REQUIRE COPING IF WIDER THAN BOTTOM FLANGE.
- FABRICATORS SHALL DETAIL DIAPHRAGM MEMBERS AND CONNECTIONS FOR FULL DEAD LOAD FIT UP. GIRDERS SHALL BE PLUMB AFTER THE FULL AMOUNT OF DEAD LOAD IS APPLIED.
- STRUCTURAL STEEL ERECTION IN A CONTINUOUS UNIT SHALL BE COMPLETE BEFORE FALSEWORK OR FORMS ARE PLACED ON THE UNIT.
- AT THE CONTRACTORS OPTION, ONE OF THE TWO BOLTED FIELD SPLICES MAY BE OMITTED, PROVIDED THE CONTRACTOR OBTAINS ALL PERMITS REQUIRED FOR TRANSPORTING THE LONGER PIECE LENGTHS.

PROJECT NO. B-3186/B-5898
HAYWOOD COUNTY
 STATION: 68+82.30± -L-LT-

SHEET 1 OF 5



Eric Nolting 1/24/2022

STATE OF NORTH CAROLINA
 DEPARTMENT OF TRANSPORTATION
 RALEIGH

SUPERSTRUCTURE STRUCTURAL STEEL DETAILS

REVISIONS					
NO.	BY:	DATE:	NO.	BY:	DATE:
1	--	--	3	--	--
2	--	--	4	--	--

SHEET NO. S03L-15
 TOTAL SHEETS 44

PLOT DRIVER: NCDOT_STRUCTURES_DEFAULT_PLOTTER.plt
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DES BY: <u>E. NOLTING</u>	DATE: <u>04/21</u>	DWG BY: <u>B. PETERSON</u>	DATE: <u>05/21</u>
DES CHK: <u>B. ROGERS</u>	DATE: <u>05/21</u>	CHK BY: <u>B. ROGERS</u>	DATE: <u>06/21</u>



DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED