



GIRDER	A	B	C
1	143°05'51"	152°12'48"	149°20'14"
2	142°53'10"	151°54'47"	149°04'12"
3	142°40'38"	151°37'02"	148°48'22"
4	142°28'12"	151°19'33"	148°32'46"

FRAMING PLAN

(CURVATURE AND SKEW EXAGGERATED FOR CLARITY)

- ☒ = FIELD SPLICE TYPE
- ▲ = GIRDERS 1 & 2
- = GIRDERS 3 & 4

STRUCTURAL STEEL 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.

ALL DIMENSIONS SHOWN ARE HORIZONTAL OR VERTICAL, UNLESS OTHERWISE NOTED.

BEARING STIFFENERS ARE TO BE PLACED NORMAL TO THE WEB OF THE GIRDER AND SHALL BE PLUMB IN THE FINAL CONDITION.

PERMITTED FLANGE AND WEB SHOP SPLICES SHALL NOT BE LOCATED WITHIN 15 FEET OF MAXIMUM DEAD LOAD DEFLECTION (NOR WITHIN 15 FEET OF INTERMEDIATE BEARINGS OF CONTINUOUS UNITS). KEEP 2 FEET MINIMUM BETWEEN WEB AND FLANGE SHOP SPLICES. KEEP 6" MINIMUM BETWEEN CONNECTOR PLATE OR TRANSVERSE STIFFENER WELD AND WEB OR FLANGE SHOP SPLICES.

STUDS ON GIRDERS MAY BE SHIFTED UP TO 1" IF NECESSARY TO CLEAR FLANGE SPLICE WELDS.

TENSION ON THE AASHTO M164 BOLTS SHALL BE CALIBRATED USING DIRECTED TENSION INDICATOR WASHERS IN ACCORDANCE WITH ARTICLE 440-8 OF THE STANDARD SPECIFICATIONS.

ENDS OF GIRDERS SHALL BE PLUMB IN THE FINAL CONDITION.

STRUCTURAL STEEL ERECTION IN A CONTINUOUS UNIT SHALL BE COMPLETE BEFORE FALSEWORK OR FORMS ARE PLACED ON THE UNIT.

FABRICATORS SHALL DETAIL DIAPHRAGM MEMBERS AND CONNECTIONS FOR STEEL DEAD LOAD FIT UP.

FOR FIELD SPLICE TYPES, SEE "SUPERSTRUCTURE BOLTED FIELD SPLICE DETAILS" SHEETS.

FOR DIAPHRAGM TYPES, SEE "SUPERSTRUCTURE STRUCTURAL STEEL GIRDER DETAILS" SHEETS.

HALF-ROUND BEARING STIFFENERS MAY BE FABRICATED FROM BENT PLATE CONFORMING TO AASHTO M270 GRADE 50W OR, AT THE CONTRACTORS OPTION, HALF-ROUND BEARING STIFFENERS MAY BE FABRICATED FROM HSS SECTIONS (CUT IN HALF) CONFORMING TO ASTM A1085, Fy = 50 ksi.

THE INSIDE FACE OF THE HALF-ROUND BEARING STIFFENERS SHALL BE PAINTED IN ACCORDANCE WITH SYSTEM 1 OR SYSTEM 2 OF THE STRUCTURAL STEEL SHOP COATINGS PROGRAM FOR EITHER AASHTO M270 OR ASTM A1085 STEEL.

IF ASTM A1085 STEEL IS USED TO FABRICATE THE HALF-ROUND BEARING STIFFENERS PAINT SYSTEM 1 OR SYSTEM 2 SHALL BE APPLIED OVER THE FULL HEIGHT OF THE GIRDERS AND STIFFENERS FOR A HORIZONTAL DISTANCE OF 1.0 TIMES THE DEPTH OF THE GIRDER CENTERED ON THE INTERIOR BENT BEARINGS AND FOR A DISTANCE OF 1.5 TIMES THE DEPTH OF THE GIRDER FROM THE ENDS OF THE GIRDERS.

PROJECT NO. B-3186/B-5898
HAYWOOD COUNTY
 STATION: 27+54.43 -Y1RT-



W. Brian Watson 1/24/2022

STATE OF NORTH CAROLINA
 DEPARTMENT OF TRANSPORTATION
 RALEIGH

SUPERSTRUCTURE FRAMING PLAN

REVISIONS						SHEET NO. 502-13 TOTAL SHEETS 48
NO.	BY:	DATE:	NO.	BY:	DATE:	
1	--	--	3	--	--	
2	--	--	4	--	--	



DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

PLOT DRIVER: NCDOT_STRUCTURE_DEFAULT_PLOTTER.plt
 USER: PPRET050
 DATE: 1/24/2022
 TIME: 1:28:27 PM
 FILE: ... \402_060_B3186-B5898_SMU_FF_013_430168.dgn