

SHOWING INTERMEDIATE STEEL DIAPHRAGM REINFORCING STEEL FOR THE INTERIOR GIRDERS

SHOWING INTERMEDIATE STEEL DIAPHRAGM REINFORCING STEEL FOR EXTERIOR GIRDERS

FOR "SECTION C-C", SEE 63" PRESTRESSED CONCRETE MODIFIED BULB TEE CONTINUOUS FOR LIVE LOAD SHEET.

NOTES:
 ALL PRESTRESSING STRANDS SHALL BE 7-WIRE LOW-RELAXATION GRADE 270 STRANDS AND SHALL CONFORM TO AASHTO M203 EXCEPT FOR SAMPLING REQUIREMENTS WHICH SHALL BE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS.
 ALL REINFORCING STEEL SHALL BE GRADE 60.
 APPLY EPOXY PROTECTIVE COATING TO END OF GIRDER SURFACES INDICATED IN ELEVATION VIEW.
 EMBEDDED PLATE "B-1" SHALL BE GALVANIZED IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS.
 ANCHOR STUDS SHALL CONFORM TO AASHTO M169 GRADES 1010 THROUGH 1020 OR APPROVED EQUAL, AND SHALL MEET THE TYPE "B" REQUIREMENTS OF SUBSECTION 7.3 OF THE ANSI/AASHTO/AWS D1.5 BRIDGE WELDING CODE.
 AT ENDS OF GIRDERS TO BE EMBEDDED IN CONCRETE DIAPHRAGMS OR END WALLS, PRESTRESSING STRANDS MAY EXTEND A MAXIMUM OF 2" BEYOND THE GIRDER ENDS. OTHERWISE, PRESTRESSING STRANDS SHALL BE CUT FLUSH WITH THE GIRDER ENDS.
 THE TRANSFER OF LOAD FROM THE ANCHORAGES TO THE GIRDER SHALL BE DONE WHEN CONCRETE HAS REACHED A COMPRESSIVE STRENGTH OF NOT LESS THAN 6,800 PSI.
 DEPENDING ON THE TYPE OF SYSTEM USED TO SUPPORT THE DECK SLAB FORMS, PRESET ANCHORS MAY BE NECESSARY IN THE PRESTRESSED CONCRETE GIRDER.
 THE TOP SURFACE OF THE GIRDER, EXCLUDING THE OUTSIDE 4", SHALL BE RAKED TO A DEPTH OF 1/4".
 A 2" x 2" CHAMFER IS ALLOWED AT THE INTERSECTION OF THE WEB AND THE BOTTOM FLANGE OF THE 63" AND 72" MODIFIED BULB TEES ONLY.

DEAD LOAD DEFLECTION TABLE FOR SPAN A & B

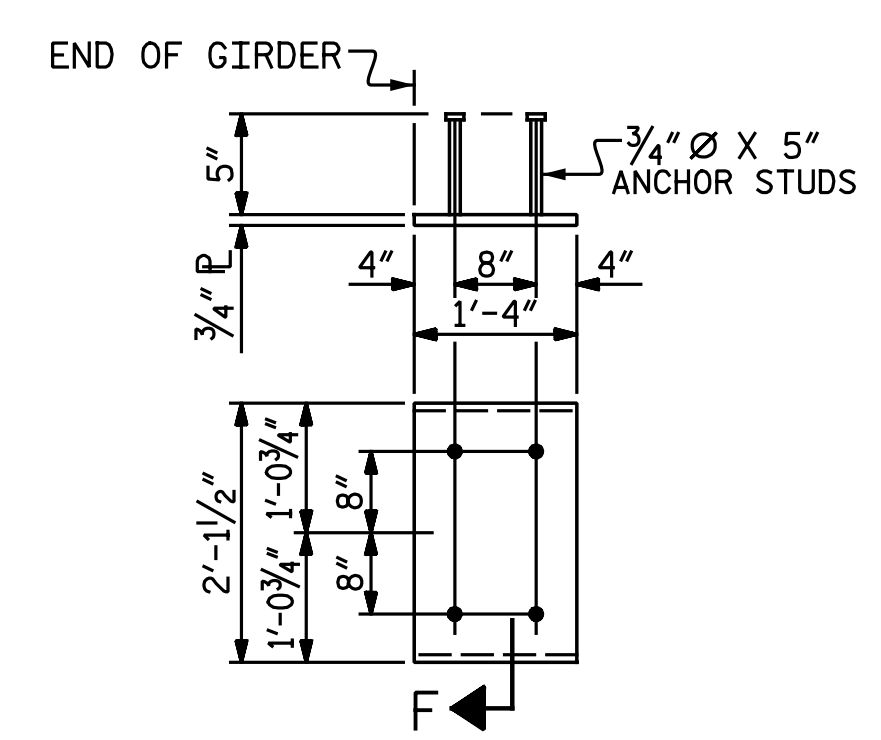
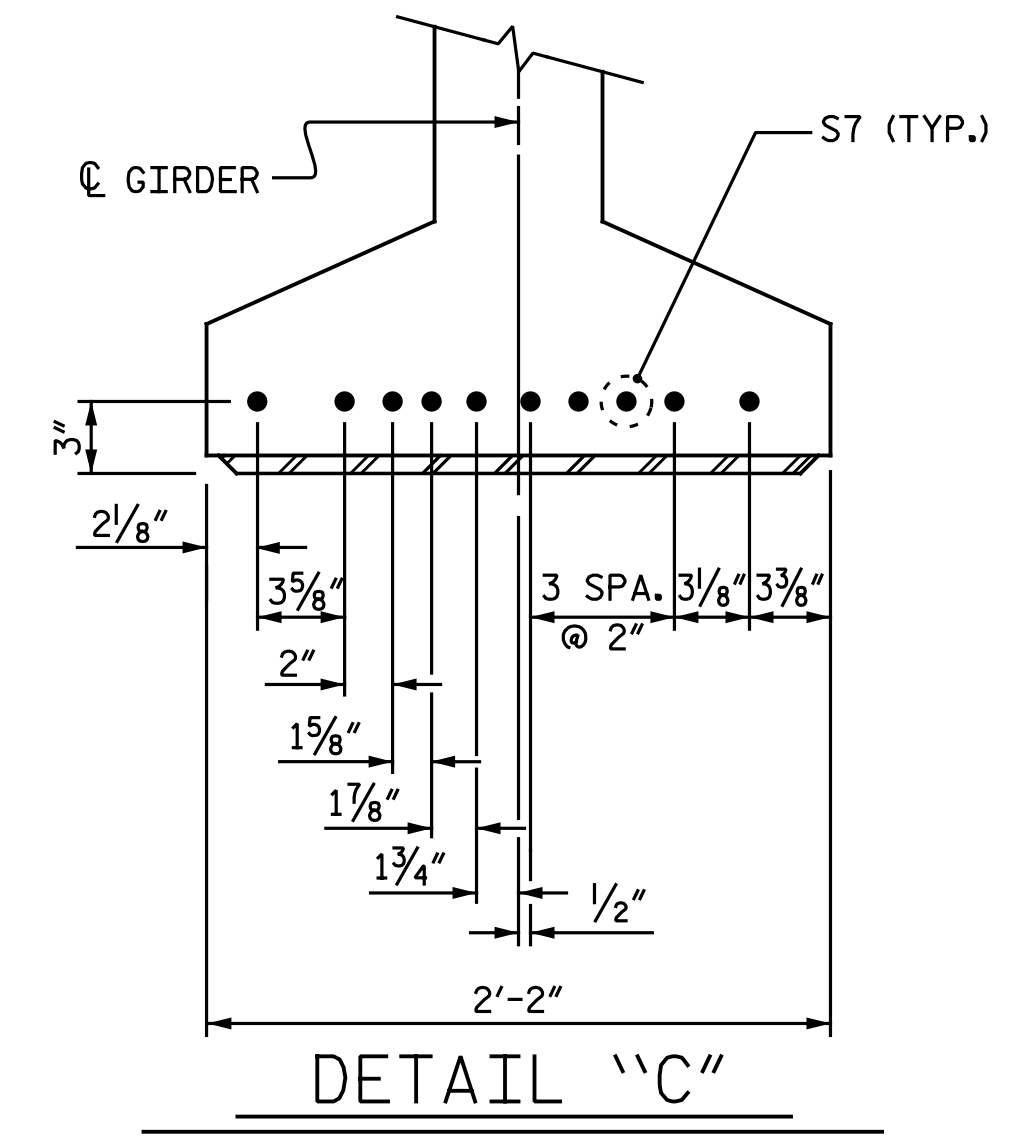
GIRDERS 1 & 5																					
20TH POINTS	0.00	0.05	0.1	0.15	0.2	0.25	0.3	0.35	0.4	0.45	0.5	0.55	0.6	0.65	0.7	0.75	0.8	0.85	0.9	0.95	1.00
CAMBER (GIRDER ALONE IN PLACE) ↑	0.000	0.040	0.079	0.116	0.150	0.180	0.206	0.226	0.241	0.250	0.253	0.250	0.241	0.226	0.206	0.180	0.150	0.116	0.079	0.040	0.000
DEFLECTION DUE TO SUPERIMPOSED D.L. * ↓	0.000	0.023	0.044	0.068	0.086	0.105	0.119	0.132	0.140	0.145	0.147	0.145	0.140	0.132	0.119	0.105	0.086	0.068	0.044	0.023	0.000
FINAL CAMBER ↑	0"	3/8"	7/16"	5/8"	3/4"	7/8"	1 1/8"	1 1/8"	1 3/8"	1 1/4"	1 1/4"	1 1/4"	1 3/8"	1 1/8"	1 1/8"	7/8"	3/4"	5/8"	7/8"	3/8"	0"

* INCLUDES FUTURE WEARING SURFACE.
 ALL VALUES ARE SHOWN IN FEET (DECIMAL FORM), EXCEPT "FINAL CAMBER", WHICH IS GIVEN IN INCHES (FRACTION FORM).

DEAD LOAD DEFLECTION TABLE FOR SPAN A & B

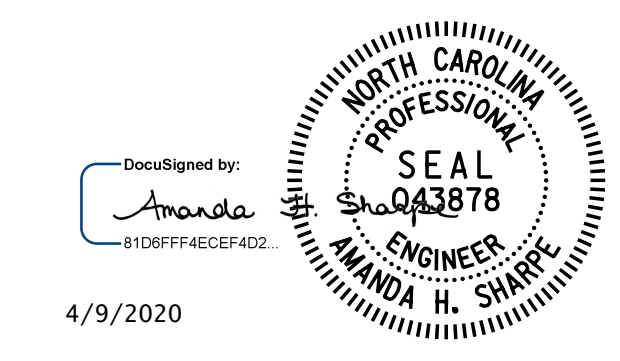
GIRDERS 2 THROUGH 4																					
20TH POINTS	0.00	0.05	0.1	0.15	0.2	0.25	0.3	0.35	0.4	0.45	0.5	0.55	0.6	0.65	0.7	0.75	0.8	0.85	0.9	0.95	1.00
CAMBER (GIRDER ALONE IN PLACE) ↑	0.000	0.040	0.079	0.116	0.150	0.180	0.206	0.226	0.241	0.250	0.253	0.250	0.241	0.226	0.206	0.180	0.150	0.116	0.079	0.040	0.000
DEFLECTION DUE TO SUPERIMPOSED D.L. * ↓	0.000	0.026	0.048	0.074	0.094	0.115	0.130	0.144	0.153	0.159	0.161	0.159	0.153	0.144	0.130	0.115	0.094	0.074	0.048	0.026	0.000
FINAL CAMBER ↑	0"	3/8"	3/8"	1/2"	11/16"	13/16"	15/16"	1"	1 1/16"	1 1/16"	1 1/8"	1 1/16"	1 1/16"	1"	15/16"	13/16"	11/16"	1/2"	3/8"	3/8"	0"

* INCLUDES FUTURE WEARING SURFACE.
 ALL VALUES ARE SHOWN IN FEET (DECIMAL FORM), EXCEPT "FINAL CAMBER", WHICH IS GIVEN IN INCHES (FRACTION FORM).



EMBEDDED PLATE "B-1" DETAILS FOR 63" MODIFIED BULB TEES
 (2 REQUIRED PER GIRDER)

PROJECT NO. I-5883
HARNETT COUNTY
 STATION: 26+80.73 -Y17-



STATE OF NORTH CAROLINA
 DEPARTMENT OF TRANSPORTATION
 RALEIGH
 PRESTRESSED CONCRETE GIRDER CONTINUOUS FOR LIVE LOAD DETAILS

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

NO.	BY:	DATE:	REVISIONS			SHEET NO.
			NO.	BY:	DATE:	
1			3			TOTAL SHEETS
2			4			33

DRAWN BY : N. B. SPEAKS DATE : 10-31-18
 CHECKED BY : A. H. SHARPE DATE : 10-31-18

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