

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 6000 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", AND THE LINK SLAB AREA, SHALL BE RAKED TO A DEPTH OF 1/4".

DEAD LOAD DEFLECTION TABLE FOR GIRDERS																						
0.6" Ø LOW RELAXATION	SPANS A AND C																					
	GIRDERS 1 AND 5																					
TWENTIETH POINTS	0	1/20	2/20	3/20	4/20	5/20	6/20	7/20	8/20	9/20	10/20	11/20	12/20	13/20	14/20	15/20	16/20	17/20	18/20	19/20	0	
CAMBER (GIRDER ALONE IN PLACE)	↑	0.000	0.018	0.035	0.051	0.066	0.079	0.090	0.099	0.106	0.110	0.111	0.110	0.106	0.099	0.090	0.079	0.066	0.051	0.035	0.018	0.000
* DEFLECTION DUE TO SUPERIMPOSED D.L.	↓	0.000	0.009	0.018	0.027	0.036	0.043	0.050	0.054	0.058	0.060	0.061	0.060	0.058	0.054	0.050	0.043	0.036	0.027	0.018	0.009	0.000
FINAL CAMBER	↑	0"	1/8"	3/16"	5/16"	3/8"	7/16"	1/2"	9/16"	9/16"	5/8"	5/8"	5/8"	9/16"	9/16"	1/2"	7/16"	3/8"	5/16"	3/16"	1/8"	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 GIRDERS																						
0.6" Ø LOW RELAXATION	SPANS A AND C																					
	GIRDERS 2 THRU 4																					
TWENTIETH POINTS	0	1/20	2/20	3/20	4/20	5/20	6/20	7/20	8/20	9/20	10/20	11/20	12/20	13/20	14/20	15/20	16/20	17/20	18/20	19/20	0	
CAMBER (GIRDER ALONE IN PLACE)	↑	0.000	0.018	0.035	0.051	0.066	0.079	0.090	0.099	0.106	0.110	0.111	0.110	0.106	0.099	0.090	0.079	0.066	0.051	0.035	0.018	0.000
* DEFLECTION DUE TO SUPERIMPOSED D.L.	↓	0.000	0.009	0.019	0.028	0.037	0.044	0.051	0.055	0.060	0.061	0.063	0.061	0.060	0.055	0.051	0.044	0.037	0.028	0.019	0.009	0.000
FINAL CAMBER	↑	0"	1/8"	3/16"	1/4"	3/8"	7/16"	1/2"	1/2"	9/16"	9/16"	9/16"	9/16"	9/16"	1/2"	1/2"	7/16"	3/8"	1/4"	3/16"	1/8"	0"

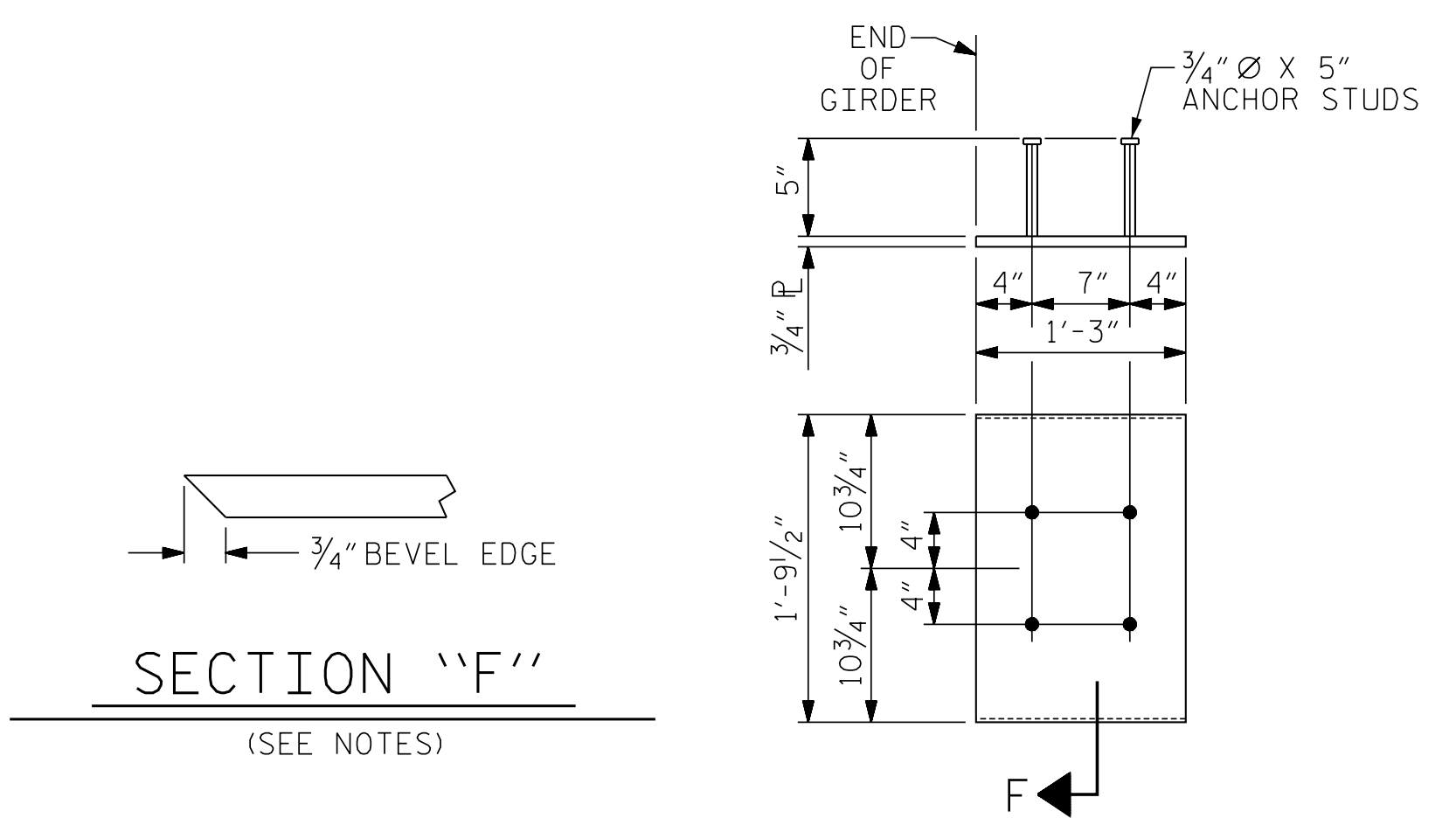
* INCLUDES FUTURE WEARING SURFACE
ALL VALUES ARE SHOWN IN FEET (DECIMAL FORM), EXCEPT "FINAL CAMBER", WHICH IS GIVEN IN INCHES (FRACTION FORM).

DEAD LOAD DEFLECTION TABLE FOR GIRDERS																						
0.6" Ø LOW RELAXATION	SPAN B																					
	GIRDERS 1 AND 5																					
TWENTIETH POINTS	0	1/20	2/20	3/20	4/20	5/20	6/20	7/20	8/20	9/20	10/20	11/20	12/20	13/20	14/20	15/20	16/20	17/20	18/20	19/20	0	
CAMBER (GIRDER ALONE IN PLACE)	↑	0.000	0.019	0.038	0.055	0.071	0.085	0.097	0.107	0.114	0.118	0.119	0.118	0.114	0.107	0.097	0.085	0.071	0.055	0.038	0.019	0.000
* DEFLECTION DUE TO SUPERIMPOSED D.L.	↓	0.000	0.012	0.025	0.037	0.049	0.059	0.068	0.074	0.080	0.082	0.084	0.082	0.080	0.074	0.068	0.059	0.049	0.037	0.025	0.012	0.000
FINAL CAMBER	↑	0"	1/16"	1/8"	3/16"	1/4"	5/16"	3/8"	3/8"	3/8"	7/16"	7/16"	7/16"	3/8"	3/8"	3/8"	5/16"	1/4"	3/16"	1/8"	1/16"	0"

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

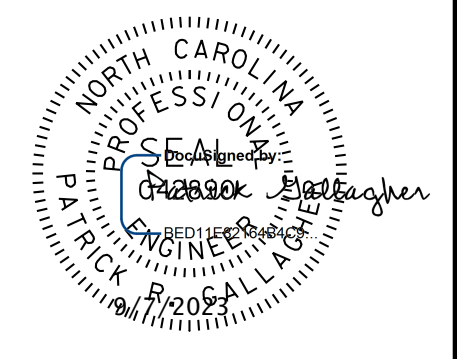
DEAD LOAD DEFLECTION TABLE FOR GIRDERS																						
0.6" Ø LOW RELAXATION	SPAN B																					
	GIRDERS 2 THRU 4																					
TWENTIETH POINTS	0	1/20	2/20	3/20	4/20	5/20	6/20	7/20	8/20	9/20	10/20	11/20	12/20	13/20	14/20	15/20	16/20	17/20	18/20	19/20	0	
CAMBER (GIRDER ALONE IN PLACE)	↑	0.000	0.019	0.038	0.055	0.071	0.085	0.097	0.107	0.114	0.118	0.119	0.118	0.114	0.107	0.097	0.085	0.071	0.055	0.038	0.019	0.000
* DEFLECTION DUE TO SUPERIMPOSED D.L.	↓	0.000	0.013	0.026	0.038	0.051	0.060	0.070	0.076	0.083	0.085	0.087	0.085	0.080	0.073	0.067	0.058	0.048	0.036	0.024	0.012	0.000
FINAL CAMBER	↑	0"	1/16"	1/8"	3/16"	1/4"	5/16"	5/16"	3/8"	3/8"	3/8"	3/8"	3/8"	3/8"	5/16"	5/16"	1/4"	3/16"	1/8"	1/16"	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 AASHTO TYPE III GIRDER
(2 REQ'D PER GIRDER)

PROJECT NO. B-4926
LENOIR COUNTY
STATION: 35+00.00 -L-



STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH
SUPERSTRUCTURE
PRESTRESSED CONCRETE
GIRDER DETAILS

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED
JOINT Johnson, Mirmiran, & Thompson Inc. 4700 Falls of Neuse Rd, Suite 100, Raleigh, NC, 27609 License No: C-3097

REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	S2-17
1			3			TOTAL SHEETS
2			4			39

W:\CADD\Structures\0317-01 - B-4926 Lenoir 20 & 3A Structures\Lenoir 3A\Drawings\02_033_B4926_SML_001_S17.dgn
 DATE: 02/24/23 10:24 PM on Wednesday, September 06, 2023

DWN. BY: WDC DATE: 03/2023
 CHKD. BY: PRG DATE: 03/2023
 DES. EGR. OF RECORD: PRG DATE: 03/2023