

**DEAD LOAD DEFLECTION TABLE FOR GIRDERS**

0.6" Ø LOW RELAXATION	SPAN A																					
	GIRDER A1																					
	Ɔ BRG.	0.05	0.10	0.15	0.20	0.25	0.30	0.35	0.40	0.45	0.50	0.55	0.60	0.65	0.70	0.75	0.80	0.85	0.90	0.95	Ɔ BRG.	
TWENTIETH POINTS	↑	0.000	0.037	0.073	0.107	0.138	0.166	0.189	0.208	0.221	0.229	0.232	0.229	0.221	0.208	0.189	0.166	0.138	0.107	0.073	0.037	0.000
* DEFLECTION DUE TO SUPERIMPOSED D.L.	↓	0.000	0.021	0.041	0.059	0.077	0.092	0.106	0.115	0.124	0.127	0.130	0.127	0.124	0.115	0.106	0.092	0.077	0.059	0.041	0.021	0.000
FINAL CAMBER	↑	0	3/16"	3/8"	9/16"	3/4"	7/8"	1"	1 1/8"	1 3/16"	1 1/4"	1 1/4"	1 1/4"	1 3/16"	1 1/8"	1"	7/8"	3/4"	9/16"	3/8"	3/16"	0

0.6" Ø LOW RELAXATION	SPAN A																					
	GIRDER A2 THRU A5																					
	Ɔ BRG.	0.05	0.10	0.15	0.20	0.25	0.30	0.35	0.40	0.45	0.50	0.55	0.60	0.65	0.70	0.75	0.80	0.85	0.90	0.95	Ɔ BRG.	
TWENTIETH POINTS	↑	0.000	0.037	0.073	0.107	0.138	0.166	0.189	0.208	0.221	0.229	0.232	0.229	0.221	0.208	0.189	0.166	0.138	0.107	0.073	0.037	0.000
* DEFLECTION DUE TO SUPERIMPOSED D.L.	↓	0.000	0.022	0.044	0.064	0.084	0.099	0.115	0.124	0.134	0.138	0.141	0.138	0.134	0.124	0.115	0.099	0.084	0.064	0.044	0.022	0.000
FINAL CAMBER	↑	0	3/16"	3/8"	1/2"	5/8"	13/16"	7/8"	1"	1 1/16"	1 1/8"	1 1/8"	1 1/8"	1 1/16"	1"	7/8"	13/16"	5/8"	1/2"	3/8"	3/16"	0

0.6" Ø LOW RELAXATION	SPAN A																					
	GIRDER A6																					
	Ɔ BRG.	0.05	0.10	0.15	0.20	0.25	0.30	0.35	0.40	0.45	0.50	0.55	0.60	0.65	0.70	0.75	0.80	0.85	0.90	0.95	Ɔ BRG.	
TWENTIETH POINTS	↑	0.000	0.037	0.073	0.107	0.138	0.166	0.189	0.208	0.221	0.229	0.232	0.229	0.221	0.208	0.189	0.166	0.138	0.107	0.073	0.037	0.000
* DEFLECTION DUE TO SUPERIMPOSED D.L.	↓	0.000	0.020	0.040	0.058	0.076	0.090	0.104	0.113	0.122	0.125	0.128	0.125	0.122	0.113	0.104	0.090	0.076	0.058	0.040	0.020	0.000
FINAL CAMBER	↑	0	3/16"	3/8"	9/16"	3/4"	15/16"	1"	1 1/8"	1 3/16"	1 1/4"	1 1/4"	1 1/4"	1 3/16"	1 1/8"	1"	15/16"	3/4"	9/16"	3/8"	3/16"	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																					
	GIRDER B1																					
	Ɔ BRG.	0.05	0.10	0.15	0.20	0.25	0.30	0.35	0.40	0.45	0.50	0.55	0.60	0.65	0.70	0.75	0.80	0.85	0.90	0.95	Ɔ BRG.	
TWENTIETH POINTS	↑	0.000	0.036	0.071	0.104	0.135	0.162	0.184	0.203	0.216	0.224	0.227	0.224	0.216	0.203	0.184	0.162	0.135	0.104	0.071	0.036	0.000
* DEFLECTION DUE TO SUPERIMPOSED D.L.	↓	0.000	0.019	0.037	0.054	0.071	0.084	0.097	0.105	0.113	0.116	0.119	0.116	0.113	0.105	0.097	0.084	0.071	0.054	0.037	0.019	0.000
FINAL CAMBER	↑	0	3/16"	7/16"	5/8"	3/4"	15/16"	1 1/16"	1 3/16"	1 1/4"	1 5/16"	1 5/16"	1 5/16"	1 1/4"	1 3/16"	1 1/16"	15/16"	3/4"	5/8"	7/16"	3/16"	0

0.6" Ø LOW RELAXATION	SPAN B																					
	GIRDER B2 THRU B5																					
	Ɔ BRG.	0.05	0.10	0.15	0.20	0.25	0.30	0.35	0.40	0.45	0.50	0.55	0.60	0.65	0.70	0.75	0.80	0.85	0.90	0.95	Ɔ BRG.	
TWENTIETH POINTS	↑	0.000	0.036	0.071	0.104	0.135	0.162	0.184	0.203	0.216	0.224	0.227	0.224	0.216	0.203	0.184	0.162	0.135	0.104	0.071	0.036	0.000
* DEFLECTION DUE TO SUPERIMPOSED D.L.	↓	0.000	0.020	0.040	0.058	0.076	0.090	0.104	0.113	0.122	0.125	0.128	0.125	0.122	0.113	0.104	0.090	0.076	0.058	0.040	0.020	0.000
FINAL CAMBER	↑	0	3/16"	3/8"	9/16"	1 1/16"	7/8"	15/16"	1 1/16"	1 1/8"	1 3/16"	1 3/16"	1 3/16"	1 1/8"	1 1/16"	15/16"	7/8"	1 1/16"	9/16"	3/8"	3/16"	0

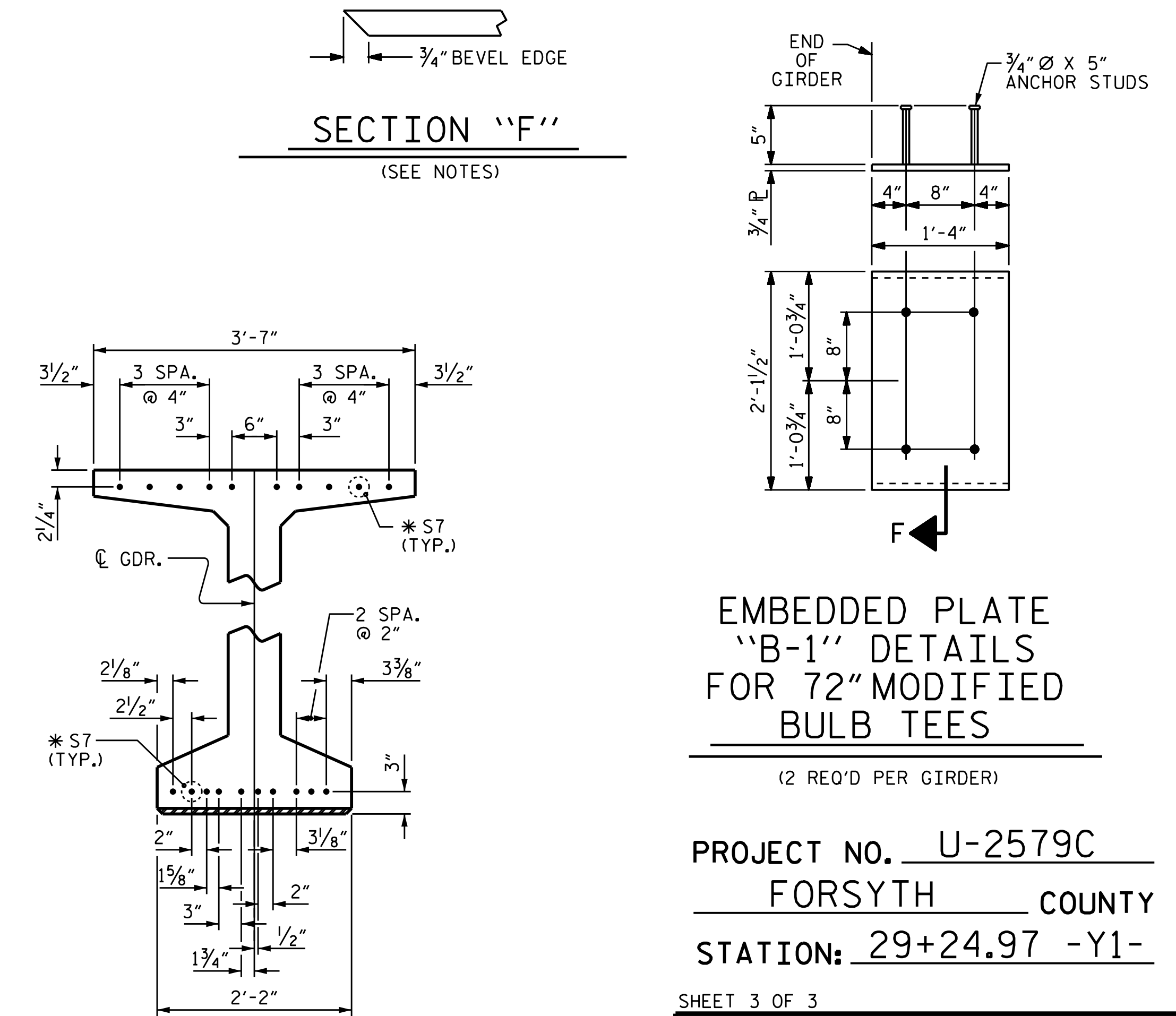
0.6" Ø LOW RELAXATION	SPAN B																					
	GIRDER B6																					
	Ɔ BRG.	0.05	0.10	0.15	0.20	0.25	0.30	0.35	0.40	0.45	0.50	0.55	0.60	0.65	0.70	0.75	0.80	0.85	0.90	0.95	Ɔ BRG.	
TWENTIETH POINTS	↑	0.000	0.036	0.071	0.104	0.135	0.162	0.184	0.203	0.216	0.224	0.227	0.224	0.216	0.203	0.184	0.162	0.135	0.104	0.071	0.036	0.000
* DEFLECTION DUE TO SUPERIMPOSED D.L.	↓	0.000	0.018	0.037	0.053	0.069	0.082	0.095	0.103	0.111	0.114	0.117	0.114	0.111	0.103	0.095	0.082	0.069	0.053	0.036	0.018	0.000
FINAL CAMBER	↑	0	3/16"	7/16"	5/8"	13/16"	15/16"	1 1/16"	1 3/16"	1 1/4"	1 5/16"	1 5/16"	1 5/16"	1 1/4"	1 3/16"	1 1/16"	15/16"	13/16"	5/8"	7/16"	3/16"	0

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

ASSEMBLED BY : J. P. MCCARTHA DATE : 3/8/16  
 CHECKED BY : H.A. LOCKLEAR DATE : 8/26/16  
 DRAWN BY : ELR 11/91 REV. 10/1/11 MAA/GM  
 CHECKED BY : GRP 11/91 REV. 1/15 MAA/TMG  
 REV. 2/15 MAA/TMG

**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.
- 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 7,600 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 72" MODIFIED BULB TEES ONLY.
- FOR EMBEDDED CLIPS FOR PRESTRESSED CONCRETE GIRDERS, SEE SPECIAL PROVISIONS.



**DETAIL "C"**

\* FOR S7 BARS, SEE DETAIL "C" OF PRESTRESSED CONCRETE GIRDER CONTINUOUS FOR LIVE LOAD DETAILS SHEET



7/27/2017

**EMBEDDED PLATE "B-1" DETAILS FOR 72" MODIFIED BULB TEES**

(2 REQ'D PER GIRDER)

PROJECT NO. U-2579C  
 FORSYTH COUNTY  
 STATION: 29+24.97 -Y1-

SHEET 3 OF 3

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

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	S1-14
1			3			TOTAL SHEETS 32
2			4			