

DEAD LOAD DEFLECTION TABLE FOR GIRDERS																						
0.6" Ø LOW RELAXATION STRANDS	SPAN B																					
	GIRDERS BG5 THRU BG8																					
TWENTIETH POINTS	0	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	1.00	
CAMBER (GIRDER ALONE IN PLACE)	↑	0.000	0.044	0.086	0.126	0.163	0.196	0.223	0.245	0.261	0.271	0.274	0.271	0.261	0.245	0.223	0.196	0.163	0.126	0.086	0.044	0.000
* DEFLECTION DUE TO SUPERIMPOSED D.L.	↓	0.000	0.034	0.068	0.101	0.133	0.159	0.185	0.202	0.218	0.223	0.229	0.223	0.217	0.200	0.184	0.158	0.132	0.099	0.067	0.033	0.000
FINAL CAMBER	↑	0	1/8"	3/16"	5/16"	3/8"	7/16"	7/16"	1/2"	1/2"	9/16"	9/16"	9/16"	1/2"	9/16"	1/2"	7/16"	3/8"	5/16"	1/4"	1/8"	0

* INCLUDES SLAB, BUILDUPS, FUTURE WEARING SURFACE & STAY-IN-PLACE FORMS.
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 STRANDS	SPAN B																					
	GIRDER BG9																					
TWENTIETH POINTS	0	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	1.00	
CAMBER (GIRDER ALONE IN PLACE)	↑	0.000	0.044	0.086	0.126	0.163	0.196	0.223	0.245	0.261	0.271	0.274	0.271	0.261	0.245	0.223	0.196	0.163	0.126	0.086	0.044	0.000
* DEFLECTION DUE TO SUPERIMPOSED D.L.	↓	0.000	0.032	0.064	0.095	0.126	0.150	0.175	0.190	0.206	0.211	0.216	0.211	0.205	0.189	0.173	0.149	0.124	0.094	0.063	0.032	0.000
FINAL CAMBER	↑	0	1/8"	1/4"	3/8"	7/16"	9/16"	9/16"	1 1/16"	1 1/16"	3/4"	1 1/16"	3/4"	1 1/16"	1 1/16"	5/8"	9/16"	7/16"	3/8"	1/4"	1/8"	0

* INCLUDES SLAB, BUILDUPS, FUTURE WEARING SURFACE & STAY-IN-PLACE FORMS.
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 STRANDS	SPAN C																					
	GIRDER CG1																					
TWENTIETH POINTS	0	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	1.00	
CAMBER (GIRDER ALONE IN PLACE)	↑	0.000	0.050	0.098	0.144	0.186	0.224	0.255	0.280	0.299	0.310	0.314	0.310	0.299	0.280	0.255	0.224	0.186	0.144	0.098	0.050	0.000
* DEFLECTION DUE TO SUPERIMPOSED D.L.	↓	0.000	0.035	0.070	0.103	0.137	0.164	0.191	0.208	0.226	0.233	0.239	0.234	0.229	0.212	0.196	0.169	0.143	0.109	0.074	0.037	0.000
FINAL CAMBER	↑	0	3/16"	5/16"	1/2"	9/16"	3/4"	3/4"	7/8"	7/8"	15/16"	7/8"	15/16"	13/16"	13/16"	1 1/16"	5/8"	1/2"	7/16"	5/16"	1/8"	0

* INCLUDES SLAB, BUILDUPS, FUTURE WEARING SURFACE & STAY-IN-PLACE FORMS.
ALL VALUES ARE SHOWN IN FEET (DECIMAL FORM), EXCEPT " FINAL CAMBER ", WHICH IS GIVEN IN INCHES (FRACTION FORM).

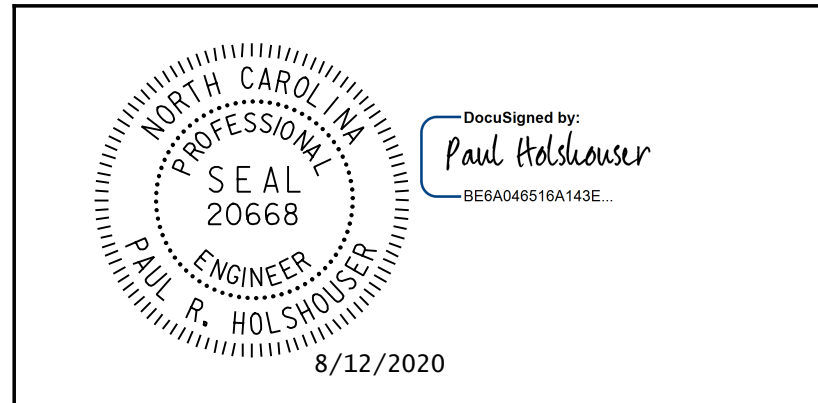
DEAD LOAD DEFLECTION TABLE FOR GIRDERS																						
0.6" Ø LOW RELAXATION STRANDS	SPAN C																					
	GIRDER CG2																					
TWENTIETH POINTS	0	0.05	0.10	0.15	0.20	0.25	0.30	0.35	0.40	0.45	0.50	0.55	0.60	0.65	0.70	0.75	0.80	0.85	0.90	0.95	1.00	
CAMBER (GIRDER ALONE IN PLACE)	↑	0.000	0.050	0.098	0.144	0.186	0.224	0.255	0.280	0.299	0.310	0.314	0.310	0.299	0.280	0.255	0.224	0.186	0.144	0.098	0.050	0.000
* DEFLECTION DUE TO SUPERIMPOSED D.L.	↓	0.000	0.034	0.069	0.102	0.135	0.161	0.188	0.205	0.223	0.229	0.235	0.230	0.225	0.209	0.193	0.167	0.140	0.107	0.073	0.037	0.000
FINAL CAMBER	↑	0	3/16"	3/8"	1/2"	5/8"	3/4"	13/16"	7/8"	15/16"	1"	15/16"	15/16"	7/8"	7/8"	3/4"	1 1/16"	9/16"	7/16"	5/16"	3/16"	0

* INCLUDES SLAB, BUILDUPS, FUTURE WEARING SURFACE & STAY-IN-PLACE FORMS.
ALL VALUES ARE SHOWN IN FEET (DECIMAL FORM), EXCEPT " FINAL CAMBER ", WHICH IS GIVEN IN INCHES (FRACTION FORM).

PROJECT NO. 48793.3.1
BLADEN COUNTY
STATION: 118+81.78 -L-

SHEET 3 OF 10

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH
SUPERSTRUCTURE
GIRDER DEFLECTIONS
AND CAMBER



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REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	S-42
1			3			TOTAL SHEETS
2			4			107

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

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DRAWN BY : J. N. AUSTIN DATE : 7-20-20
 CHECKED BY : N. D'AIUTO DATE : 7-21-20
 DESIGN E.O.R. : P. R. HOLSHOUSER DATE : 7-23-20