

DEAD LOAD DEFLECTION TABLE FOR GIRDERS																																											
SPAN A																																											
GIRDER #4																																											
FORTIETH POINTS	CL BRG.	0.025	0.050	0.075	0.100	0.125	0.150	0.175	0.200	0.225	0.250	0.275	0.300	0.325	0.350	0.375	0.400	0.425	0.450	0.475	0.500	0.525	0.550	0.575	0.600	0.625	0.650	0.675	0.700	0.725	0.750	0.775	0.800	0.825	0.850	0.875	0.900	0.925	0.950	0.975	CL BRG.		
DEFLECTION DUE TO WEIGHT OF GIRDER	0.000	0.002	0.003	0.005	0.006	0.007	0.008	0.010	0.011	0.011	0.012	0.012	0.013	0.013	0.013	0.013	0.012	0.012	0.011	0.010	0.009	0.008	0.007	0.006	0.005	0.004	0.003	0.001	0.000	-0.001	-0.002	-0.003	-0.003	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.003	-0.002	0.000	
DEFLECTION DUE TO WEIGHT OF SLAB *	0.000	0.005	0.011	0.016	0.020	0.025	0.029	0.033	0.036	0.039	0.041	0.043	0.044	0.045	0.045	0.045	0.044	0.042	0.040	0.038	0.035	0.032	0.028	0.025	0.021	0.017	0.013	0.010	0.006	0.003	0.000	-0.003	-0.006	-0.007	-0.009	-0.010	-0.010	-0.009	-0.007	-0.004	0.000		
DEFLECTION DUE TO WEIGHT OF PARAPET	0.000	0.000	0.000	0.000	0.000	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
TOTAL DEAD LOAD DEFLECTION	0.000	0.007	0.014	0.021	0.026	0.033	0.038	0.044	0.048	0.051	0.054	0.056	0.058	0.059	0.059	0.057	0.055	0.052	0.049	0.045	0.041	0.036	0.032	0.027	0.022	0.017	0.011	0.006	0.002	-0.002	-0.006	-0.009	-0.011	-0.013	-0.014	-0.014	-0.013	-0.010	-0.006	0.000			
REQUIRED CAMBER	0	1/16"	3/16"	1/4"	5/16"	3/8"	7/16"	1/2"	5/8"	5/8"	11/16"	11/16"	11/16"	11/16"	11/16"	11/16"	11/16"	5/8"	3/4"	3/4"	1/2"	7/16"	3/8"	3/8"	3/8"	1/4"	3/16"	1/8"	1/16"	0	0	-1/16"	-1/8"	-1/8"	-3/16"	-3/16"	-3/16"	-1/8"	-1/8"	-1/16"	0		

DEAD LOAD DEFLECTION TABLE FOR GIRDERS																																									
SPAN B																																									
GIRDER #4																																									
FORTIETH POINTS	CL BRG.	0.025	0.050	0.075	0.100	0.125	0.150	0.175	0.200	0.225	0.250	0.275	0.300	0.325	0.350	0.375	0.400	0.425	0.450	0.475	0.500	0.525	0.550	0.575	0.600	0.625	0.650	0.675	0.700	0.725	0.750	0.775	0.800	0.825	0.850	0.875	0.900	0.925	0.950	0.975	CL BRG.
DEFLECTION DUE TO WEIGHT OF GIRDER	0.000	0.003	0.006	0.010	0.014	0.019	0.024	0.029	0.034	0.039	0.045	0.050	0.055	0.060	0.064	0.068	0.072	0.075	0.078	0.081	0.082	0.084	0.084	0.084	0.084	0.082	0.080	0.078	0.075	0.071	0.066	0.062	0.056	0.050	0.044	0.037	0.030	0.023	0.016	0.008	0.000
DEFLECTION DUE TO WEIGHT OF SLAB *	0.000	0.007	0.016	0.026	0.038	0.050	0.064	0.078	0.092	0.107	0.121	0.136	0.150	0.163	0.175	0.187	0.198	0.207	0.215	0.221	0.226	0.230	0.232	0.232	0.227	0.222	0.215	0.206	0.196	0.184	0.171	0.156	0.140	0.122	0.104	0.084	0.064	0.043	0.022	0.000	
DEFLECTION DUE TO WEIGHT OF PARAPET	0.000	0.000	0.000	0.001	0.001	0.001	0.002	0.002	0.002	0.003	0.003	0.004	0.004	0.004	0.005	0.005	0.005	0.005	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.005	0.005	0.005	0.004	0.004	0.003	0.003	0.002	0.002	0.001	0.001	0.000	
TOTAL DEAD LOAD DEFLECTION	0.000	0.010	0.022	0.037	0.053	0.070	0.090	0.109	0.128	0.149	0.169	0.190	0.209	0.227	0.244	0.260	0.275	0.287	0.299	0.308	0.314	0.320	0.322	0.322	0.322	0.315	0.308	0.299	0.287	0.272	0.255	0.238	0.216	0.194	0.169	0.144	0.116	0.089	0.060	0.031	0.000
REQUIRED CAMBER	0	1/8"	1/4"	7/16"	5/8"	13/16"	11/16"	15/16"	13/16"	113/16"	2"	21/4"	21/2"	23/4"	25/16"	31/8"	35/16"	37/16"	37/16"	31/16"	33/4"	313/16"	37/8"	37/8"	37/8"	33/4"	311/16"	39/16"	37/16"	31/4"	31/16"	27/8"	25/8"	25/16"	21/16"	13/4"	13/8"	11/16"	11/16"	3/8"	0


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

PROJECT NO. R-2566BA

WATAUGA COUNTY

STATION: 164+30.00 -L-

SHEET 4 OF 11

	STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION RALEIGH																			
	SUPERSTRUCTURE DEAD LOAD DEFLECTIONS																			
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED		REVISIONS																		
TGS ENGINEERS 706 HILLSBOROUGH STREET SUITE 200 RALEIGH, NC 27603 PH (919) 773-8887 CORP. LICENSE NO.: C-0275		<table border="1"> <thead> <tr> <th>NO.</th> <th>BY:</th> <th>DATE:</th> <th>NO.</th> <th>BY:</th> <th>DATE:</th> </tr> </thead> <tbody> <tr> <td>1</td> <td></td> <td></td> <td>3</td> <td></td> <td></td> </tr> <tr> <td>2</td> <td></td> <td></td> <td>4</td> <td></td> <td></td> </tr> </tbody> </table>	NO.	BY:	DATE:	NO.	BY:	DATE:	1			3			2			4		
NO.	BY:	DATE:	NO.	BY:	DATE:															
1			3																	
2			4																	
DRAWN BY: <u>ZCS</u> DATE: <u>06/21</u> CHECKED BY: <u>MGC</u> DATE: <u>06/21</u> DESIGN ENGINEER OF RECORD: <u>RDE</u> DATE: <u>09/21</u>		SHEET NO. <u>S-30</u> TOTAL SHEETS <u>79</u>																		