

LOAD FACTORS:

DESIGN LOAD RATING FACTORS	LIMIT STATE	γ_{DC}	γ_{DW}
	STRENGTH I	1.25	1.50
	SERVICE III	1.00	1.00

LOAD AND RESISTANCE FACTOR RATING (LRFD) SUMMARY FOR PRESTRESSED CONCRETE GIRDERS

LEVEL	VEHICLE	WEIGHT (W) (TONS)	CONTROLLING LOAD RATING #	MINIMUM RATING FACTORS (RF)	TONS = W X RF	STRENGTH I LIMIT STATE										SERVICE III LIMIT STATE					COMMENT NUMBER			
						LIVELOAD FACTORS	MOMENT					SHEAR					LIVELOAD FACTORS	MOMENT						
							DISTRIBUTION FACTORS (DF)	RATING FACTOR	SPAN	GIRDER LOCATION	DISTANCE FROM LEFT END OF SPAN (ft)	DISTRIBUTION FACTORS (DF)	RATING FACTOR	SPAN	GIRDER LOCATION	DISTANCE FROM LEFT END OF SPAN (ft)		DISTRIBUTION FACTORS (DF)	RATING FACTOR	SPAN		GIRDER LOCATION	DISTANCE FROM LEFT END OF SPAN (ft)	
DESIGN LOAD RATING	HL-93(Inv)	N/A	1	1.02	--	1.75	0.834	1.67	A	I	43.876	1.051	2.5	A	I	43.876	0.80	1.051	1.02	A	I	43.876		
	HL-93(0pr)	N/A	--	2.16	--	1.35	0.834	2.16	A	I	43.876	1.051	3.24	A	I	43.876	N/A	--	--	--	--	--		
	HS-20(Inv)	36.000	2	1.39	49.935	1.75	0.834	2.26	A	I	43.876	1.051	2.93	A	I	43.876	0.80	0.834	1.39	A	I	43.876		
	HS-20(0pr)	36.000	--	2.93	105.480	1.35	0.834	2.93	A	I	43.876	1.051	3.8	A	I	43.876	N/A	--	--	--	--	--		
LEGAL LOAD RATING	SV	SH	12.500	--	3.51	43.884	1.4	0.834	7.15	A	I	43.876	1.051	8.87	A	I	43.876	0.80	0.834	3.51	A	I	43.876	
		S3C	21.500	--	2.05	44.149	1.4	0.834	4.18	A	I	43.876	1.051	5.25	A	I	43.876	0.80	0.834	2.05	A	I	43.876	
		S3A	22.750	--	1.95	44.265	1.4	0.834	3.96	A	I	43.876	1.051	5	A	I	43.876	0.80	0.834	1.95	A	I	43.876	
		S4A	26.750	--	1.71	45.795	1.4	0.834	3.49	A	I	43.876	1.051	4.46	A	I	43.876	0.80	0.834	1.71	A	I	43.876	
		S5A	30.500	--	1.51	46.095	1.4	0.834	3.08	A	I	43.876	1.051	4.24	A	I	43.876	0.80	0.834	1.51	A	I	43.876	
		S6A	34.500	--	1.37	47.272	1.4	0.834	2.79	A	I	43.876	1.051	3.9	A	I	43.876	0.80	0.834	1.37	A	I	43.876	
	TTST	S7B	38.500	--	1.25	48.003	1.4	0.834	2.54	A	I	43.876	1.051	3.8	A	I	43.876	0.80	0.834	1.25	A	I	43.876	
		S7A	40.000	3	1.23	49.272	1.4	0.834	2.51	A	I	43.876	1.051	4.14	A	I	43.876	0.80	0.834	1.23	A	I	43.876	
		T4A	28.250	--	1.69	47.647	1.4	0.834	3.44	A	I	43.876	1.051	4.41	A	I	43.876	0.80	0.834	1.69	A	I	43.876	
		T5B	32.000	--	1.48	47.416	1.4	0.834	3.02	A	I	43.876	1.051	4.49	A	I	43.876	0.80	0.834	1.48	A	I	43.876	
		T6A	36.000	--	1.36	48.882	1.4	0.834	2.77	A	I	43.876	1.051	4.26	A	I	43.876	0.80	0.834	1.36	A	I	43.876	
		T7A	40.000	--	1.26	50.350	1.4	0.834	2.56	A	I	43.876	1.051	4.13	A	I	43.876	0.80	0.834	1.26	A	I	43.876	
T7B	40.000	--	1.34	53.667	1.4	0.834	2.73	A	I	43.876	1.051	3.64	A	I	43.876	0.80	0.834	1.34	A	I	43.876			

NOTES:

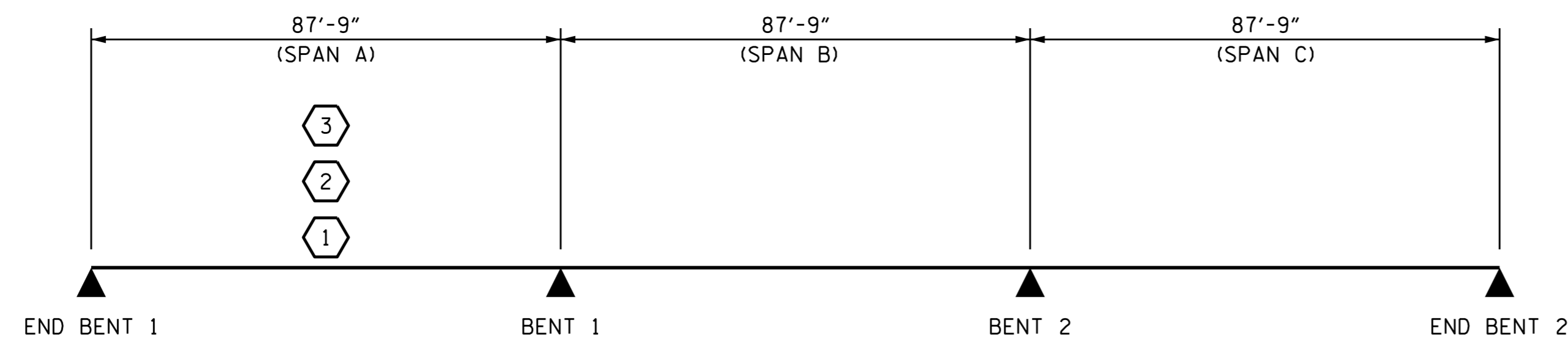
MINIMUM RATING FACTORS ARE BASED ON THE STRENGTH I AND SERVICE III LIMIT STATES.

ALLOWABLE STRESSES FOR SERVICE III LIMIT STATE ARE AS REQUIRED FOR DESIGN.

COMMENTS:

- 1.
- 2.
- 3.
- 4.

#	CONTROLLING LOAD RATING
1	DESIGN LOAD RATING (HL-93)
2	DESIGN LOAD RATING (HS-20)
3	LEGAL LOAD RATING **
** SEE CHART FOR VEHICLE TYPE	
GIRDER LOCATION	
I - INTERIOR GIRDER	
EL - EXTERIOR LEFT GIRDER	
ER - EXTERIOR RIGHTGIRDER	

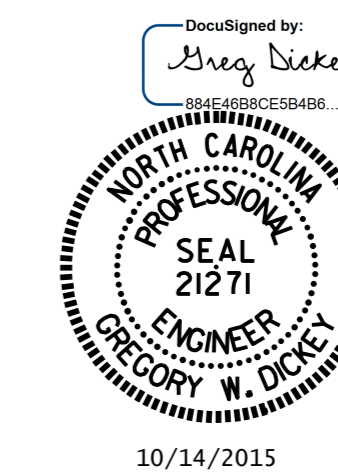


LRFR SUMMARY
(SPAN LENGTHS SHOWN ARE BEARING TO BEARING.)

PROJECT NO. I-3318BB
JOHNSTON COUNTY
 STATION: 24+68.00 -L-

ASSEMBLED BY : M.L. RORIE DATE : 8-14-14
 CHECKED BY : M.M.AHMED DATE : 9-30-14
 DRAWN BY : MAA 1/08
 CHECKED BY : GM/DI 2/08

REV. 11/12/08RR MAA/GM
 REV. 10/1/11 MAA/GM



STATE OF NORTH CAROLINA
 DEPARTMENT OF TRANSPORTATION
 RALEIGH

STANDARD
 LRFR SUMMARY FOR
 PRESTRESSED
 CONCRETE GIRDERS
 (INTERSTATE TRAFFIC)

REVISIONS					
NO.	BY:	DATE:	NO.	BY:	DATE:
1			3		
2			4		

SHEET NO. S-5
 TOTAL SHEETS 78