

LOAD FACTORS:

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

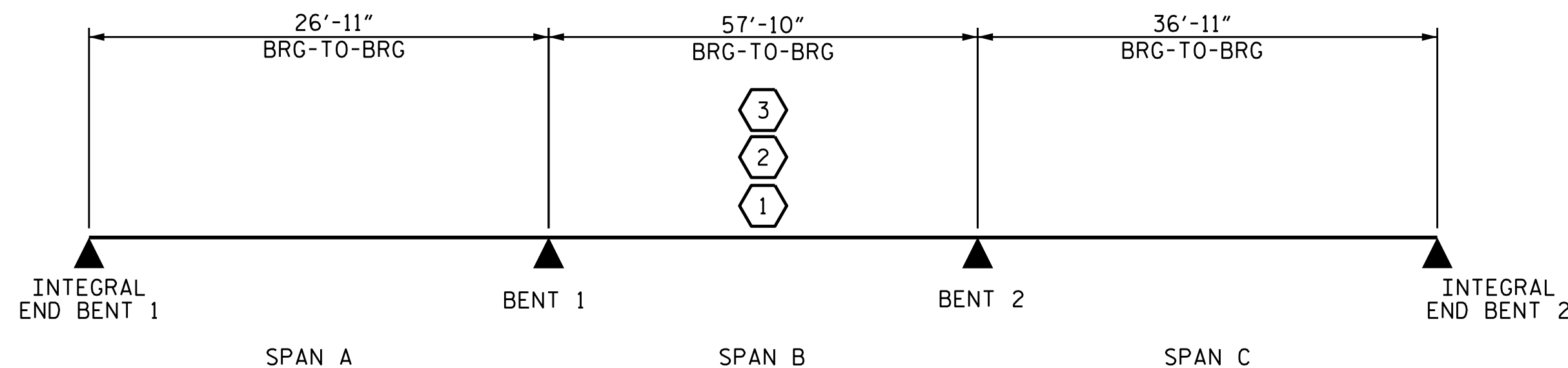
LOAD AND RESISTANCE FACTOR RATING (LRFD) SUMMARY FOR PRESTRESSED CONCRETE GIRDERS

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	1.03	--	1.75	0.998	1.28	C	I	18.459	1.077	1.27	C	I	1.846	0.80	1.083	1.03	B	I	28.917		
	HL-93(0pr)	N/A	--	1.65	--	1.35	0.998	1.66	C	I	18.459	1.077	1.65	C	I	1.846	N/A	--	--	--	--	--		
	HS-20(Inv)	36.000	2	1.30	46.808	1.75	0.998	1.63	C	I	14.767	1.077	1.49	C	I	1.846	0.80	0.892	1.30	B	I	28.917		
	HS-20(0pr)	36.000		1.93	69.574	1.35	0.998	2.12	C	I	14.767	1.077	1.93	C	I	1.846	N/A	--	--	--	--	--		
LEGAL LOAD RATING	SV	SNSH	13.500		2.78	37.588	1.40	0.998	3.68	C	I	18.459	1.077	3.90	C	I	14.767	0.80	0.892	2.78	B	I	28.917	
		SNGARBS2	20.000		2.14	42.757	1.40	0.998	3.05	C	I	14.767	1.077	2.95	C	I	1.846	0.80	0.892	2.14	B	I	28.917	
		SNAGRIS2	22.000		2.05	45.147	1.40	0.998	3.00	C	I	14.767	1.077	2.80	C	I	1.846	0.80	0.892	2.05	B	I	28.917	
		SNCOTTS3	27.250		1.39	37.804	1.40	0.998	1.84	C	I	18.459	1.077	1.98	C	I	1.846	0.80	0.892	1.39	B	I	28.917	
		SNAGGRS4	34.925		1.18	41.326	1.40	0.998	1.67	C	I	18.459	1.077	1.75	C	I	1.846	0.80	0.892	1.18	B	I	28.917	
		SNS5A	35.550		1.16	41.077	1.40	0.998	1.62	C	I	18.459	1.077	1.83	C	I	1.846	0.80	0.892	1.16	B	I	28.917	
		SNS6A	39.950		1.07	42.763	1.40	0.998	1.55	C	I	18.459	1.077	1.72	C	I	1.846	0.80	0.892	1.07	B	I	28.917	
	SNS7B	42.000		1.02	42.830	1.40	0.998	1.48	C	I	18.459	1.077	1.75	C	I	1.846	0.80	0.892	1.02	B	I	28.917		
	TTST	TNAGRIT3	33.000		1.31	43.177	1.40	0.998	1.92	C	I	18.459	1.077	2.01	C	I	1.846	0.80	0.892	1.31	B	I	28.917	
		TNT4A	33.075		1.32	43.560	1.40	0.998	1.94	C	I	18.459	1.077	1.90	C	I	1.846	0.80	0.892	1.32	B	I	28.917	
		TNT6A	41.600		1.09	45.216	1.40	0.998	1.66	C	I	18.459	1.077	1.87	C	I	1.846	0.80	0.892	1.09	B	I	28.917	
		TNT7A	42.000		1.10	46.109	1.40	0.998	1.70	C	I	18.459	1.077	1.73	C	I	1.846	0.80	0.892	1.10	B	I	28.917	
		TNT7B	42.000		1.15	48.154	1.40	0.998	1.72	C	I	18.459	1.077	1.67	C	I	1.846	0.80	0.892	1.15	B	I	28.917	
TNAGRIT4		43.000		1.08	46.580	1.40	0.998	1.69	C	I	14.767	1.077	1.60	C	I	1.846	0.80	0.892	1.08	B	I	28.917		
TNAGT5A	45.000		1.02	45.750	1.40	0.998	1.57	C	I	18.459	1.077	1.67	C	I	1.846	0.80	0.892	1.02	B	I	28.917			
TNAGT5B	45.000	3	1.00	45.010	1.40	0.998	1.52	C	I	18.459	1.077	1.51	C	I	1.846	0.80	0.892	1.00	B	I	28.917			

NOTES:

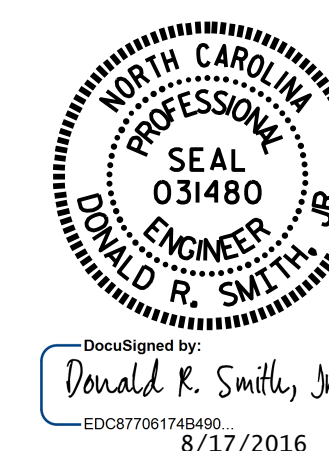
MINIMUM RATING FACTORS ARE BASED ON THE STRENGTH I AND SERVICE III LIMIT STATES.  
ALLOWABLE STRESSES FOR SERVICE III LIMIT STATE ARE AS REQUIRED FOR DESIGN.

#	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 RIGHT GIRDER	



LRFR SUMMARY

PROJECT NO. U-3440  
CABARRUS COUNTY  
STATION: 68+25.60 -L-



STATE OF NORTH CAROLINA  
DEPARTMENT OF TRANSPORTATION  
RALEIGH  
STANDARD  
LRFR SUMMARY FOR  
PRESTRESSED  
CONCRETE GIRDERS  
(NON-INTERSTATE TRAFFIC)  
(LEFT LANE)

ASSEMBLED BY : J.D. HAWK	DATE : 5/5/2016
CHECKED BY : D. R. SMITH	DATE : 5/12/2016
DRAWN BY : MAA 1/08	REV. 11/2/08RR MAA/GM
CHECKED BY : GM/DI 2/08	REV. 10/1/11 MAA/GM
DESIGN ENGINEER OF RECORD: T.R. PETERSON DATE : 6/20/16	

DOCUMENT NOT CONSIDERED  
FINAL UNLESS ALL  
SIGNATURES COMPLETED

REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	S1-4
1			3			TOTAL SHEETS
2			4			37