

LOAD FACTORS:

DESIGN LOAD RATING FACTORS	LIMIT STATE	γ _{DC}	γ _{DW}
	STRENGTH I	1.25	1.50
	SERVICE II	1.00	1.00

NOTES:

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

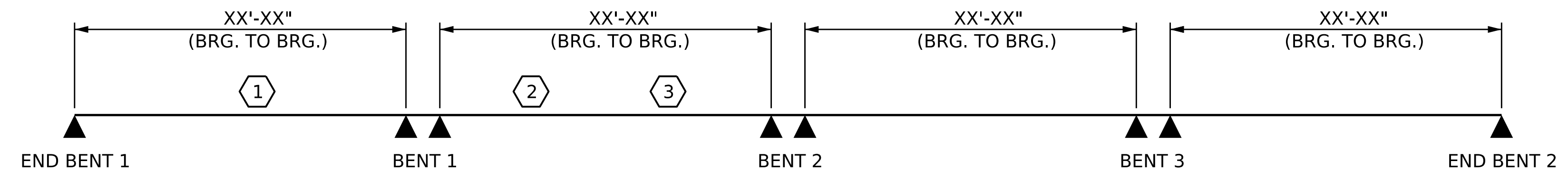
ALLOWABLE STRESSES FOR SERVICE II LIMIT STATE ARE AS REQUIRED FOR DESIGN.

COMMENTS:

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LOAD AND RESISTANCE FACTOR RATING (LRFR) SUMMARY FOR PRESTRESSED CONCRETE GIRDERS																											
LOAD TYPE	VEHICLE	WEIGHT (W) (TONS)	CONTROLLING LOAD RATING #	MINIMUM RATING FACTORS (RF)	TONS = W x RF	STRENGTH I LIMIT STATE										SERVICE II LIMIT STATE					COMMENT NUMBER						
						LIVE-LOAD FACTORS (γ _{LL})	MOMENT					SHEAR					LIVE-LOAD FACTORS (γ _{LL})	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	HL-93 (INVENTORY)	N/A	1		--	1.75													1.30								
	HL-93 (OPERATING)	N/A			-	1.35													N/A	--	--	--	--	--	--		
	HS-20 (INVENTORY)	36.000	2			1.75													1.30	--	--	--	--	--	--		
	HS-20 (OPERATING)	36.000				1.35													N/A								
LEGAL LOAD	SINGLE VEHICLE (SV)	SH	12.500			1.40													1.30								
		S3C	21.500			1.40														1.30							
		S3A	22.750			1.40														1.30							
		S4A	26.750			1.40														1.30							
		S5A	30.500			1.40														1.30							
		S6A	34.500			1.40														1.30							
		S7B	38.500			1.40														1.30							
	S7A	40.000			1.40														1.30								
	TRUCK TRAILER SEMI-TRAILER (TTST)	T4A	28.250				1.40													1.30							
		T5B	32.000				1.40													1.30							
T6A		36.000				1.40													1.30								
	T7A	40.000				1.40													1.30								
	T7B	40.000				1.40													1.30								
FATIGUE	HL-93 (INVENTORY)	N/A				0.75																					
EMERGENCY VEHICLE (EV)	EV2	28.750				1.30																					
	EV3	43.000				1.30																					

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



LRFR SUMMARY

PROJECT NO. _____
 _____ COUNTY
 STATION: _____

STATE OF NORTH CAROLINA
 DEPARTMENT OF TRANSPORTATION
 RALEIGH
 STANDARD
**LRFR SUMMARY FOR
 STEEL GIRDERS**
 (INTERSTATE TRAFFIC)

ASSEMBLED BY :	DATE :
CHECKED BY :	DATE :
DRAWN BY : MAA 1/08	REV. 11/12/08RR MAA/GM
CHECKED BY : GM/DI 2/08	REV. 10/1/11 MAA/GM
	REV. 04/23 BNB/AAI

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	REVISIONS						SHEET NO.
	NO.	BY:	DATE:	NO.	BY:	DATE:	
	1			3			TOTAL SHEETS
	2			4			