

LOAD AND RESISTANCE FACTOR RATING (LRFR) 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				
						MOMENT					SHEAR					MOMENT									
						LIVE-LOAD FACTORS (γ _{LL})	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)	LIVE-LOAD FACTORS (γ _{LL})	DISTRIBUTION FACTORS (DF)	RATING FACTOR	SPAN		GIRDER LOCATION	DISTANCE FROM LEFT END OF SPAN (ft)		
DESIGN LOAD RATING	HL-93 (INVENTORY)	N/A	①		--	1.75												0.80							
	HL-93 (OPERATING)	N/A			--	1.35												N/A	--	--	--	--	--		
	HS-20 (INVENTORY)	36.000	②			1.75												0.80							
	HS-20 (OPERATING)	36.000				1.35												N/A	--	--	--	--	--		
LEGAL LOAD RATING	SINGLE VEHICLE (SV)	SNSH	13,500			1.40												0.80							
		SNGARBS2	20,000			1.40													0.80						
		SNAGRIS2	22,000			1.40													0.80						
		SNCOTTS3	27,250			1.40													0.80						
		SNAGGRS4	34,925			1.40													0.80						
		SNS5A	35,550			1.40													0.80						
		SNS6A	39,950			1.40													0.80						
	SNS7B	42,000			1.40													0.80							
	TRUCK TRACTOR SEMI-TRAILER (TTST)	TNAGRIT3	33,000				1.40												0.80						
		TNT4A	33,075				1.40												0.80						
		TNT6A	41,600				1.40												0.80						
		TNT7A	42,000				1.40												0.80						
		TNT7B	42,000				1.40												0.80						
		TNAGRIT4	43,000				1.40												0.80						
TNAGT5A		45,000				1.40												0.80							
TNAGT5B	45,000				1.40												0.80								

LOAD FACTORS:

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

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)

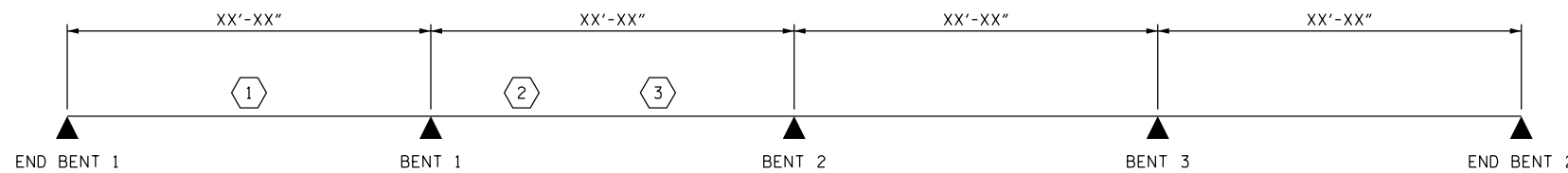
② DESIGN LOAD RATING (HS-20)

③ LEGAL LOAD RATING **

** SEE CHART FOR VEHICLE TYPE

GIRDER LOCATION

I - INTERIOR GIRDER
 EL - EXTERIOR LEFT GIRDER
 ER - EXTERIOR RIGHT GIRDER



PROJECT NO. _____
 _____ COUNTY
 STATION: _____

LRFR SUMMARY

ASSEMBLED BY : _____ DATE : _____
 CHECKED BY : _____ DATE : _____
 DRAWN BY : MAA 1/08 REV. 11/12/08RR MAA/GM
 CHECKED BY : GM/DI 2/08 REV. 10/11/11 MAA/GM

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

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED