

LOAD FACTORS:

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

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			
						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 RATING	HL-93 (INVENTORY)	N/A	①	1.04	--	1.75	0.719	1.27	B	E	51.50	0.783	1.18	A	I	10.25	0.80	0.719	1.04	B	E	51.50		
	HL-93 (OPERATING)	N/A		1.57	--	1.35	0.719	1.64	B	E	51.50	0.783	1.57	A	I	10.25	N/A	--	--	--	--	--		
	HS-20 (INVENTORY)	36,000	②	1.47	52.92	1.75	0.719	1.79	B	E	51.50	0.783	1.64	A	I	10.25	0.80	0.719	1.47	B	E	51.50		
	HS-20 (OPERATING)	36,000		2.16	77.76	1.35	0.719	2.32	B	E	51.50	0.783	2.16	A	I	10.25	N/A	--	--	--	--	--		
LEGAL LOAD RATING	SINGLE VEHICLE (SV)	SNSH	13,500		3.51	47.39	1.40	0.719	5.36	B	E	51.50	0.783	5.33	A	I	10.25	0.80	0.719	3.51	B	E	51.50	
		SNGARBS2	20,000		2.53	50.60	1.40	0.719	3.86	B	E	51.50	0.783	3.69	A	I	10.25	0.80	0.719	2.53	B	E	51.50	
		SNAGRIS2	22,000		2.36	51.92	1.40	0.719	3.60	B	E	51.50	0.783	3.39	A	I	10.25	0.80	0.719	2.36	B	E	51.50	
		SNCOTTS3	27,250		1.74	47.42	1.40	0.719	2.66	B	E	51.50	0.783	2.58	A	I	10.25	0.80	0.719	1.74	B	E	51.50	
		SNAGGRS4	34,925		1.42	49.59	1.40	0.719	2.17	B	E	51.50	0.783	2.08	A	I	10.25	0.80	0.719	1.42	B	E	51.50	
		SNS5A	35,550		1.39	49.41	1.40	0.719	2.13	B	E	51.50	0.783	2.08	A	I	10.25	0.80	0.719	1.39	B	E	51.50	
		SNS6A	39,950		1.26	50.34	1.40	0.719	1.93	B	E	51.50	0.783	1.87	A	I	10.25	0.80	0.719	1.26	B	E	51.50	
		SNS7B	42,000		1.20	50.40	1.40	0.719	1.84	B	E	51.50	0.783	1.81	B	I	10.30	0.80	0.719	1.20	B	E	51.50	
	TRUCK TRACTOR SEMI-TRAILER (TTST)	TNAGRIT3	33,000		1.54	50.82	1.40	0.719	2.35	B	E	51.50	0.783	2.27	A	I	10.25	0.80	0.719	1.54	B	E	51.50	
		TNT4A	33,075		1.54	50.94	1.40	0.719	2.35	B	E	51.50	0.783	2.23	A	I	10.25	0.80	0.719	1.54	B	E	51.50	
		TNT6A	41,600		1.25	52.00	1.40	0.719	1.90	B	E	51.50	0.783	1.90	A	I	10.25	0.80	0.719	1.25	B	E	51.50	
		TNT7A	42,000		1.25	52.50	1.40	0.719	1.91	B	E	51.50	0.783	1.86	A	I	10.25	0.80	0.719	1.25	B	E	51.50	
		TNT7B	42,000		1.27	53.34	1.40	0.719	1.95	B	E	51.50	0.783	1.78	A	I	10.25	0.80	0.719	1.27	B	E	51.50	
		TNAGRIT4	43,000		1.22	52.46	1.40	0.719	1.87	B	E	51.50	0.783	1.73	A	I	10.25	0.80	0.719	1.22	B	E	51.50	
TNAGT5A	45,000		1.16	52.20	1.40	0.719	1.77	B	E	51.50	0.783	1.70	A	I	10.25	0.80	0.719	1.16	B	E	51.50			
TNAGT5B	45,000		③	1.15	51.75	1.40	0.719	1.76	B	E	51.50	0.783	1.64	A	I	10.25	0.80	0.719	1.15	B	E	51.50		

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)

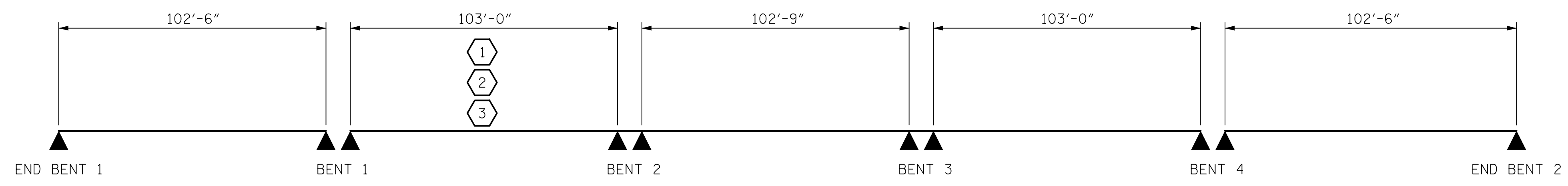
② DESIGN LOAD RATING (HS-20)

③ LEGAL LOAD RATING **

** SEE CHART FOR VEHICLE TYPE

GIRDER LOCATION

I - INTERIOR GIRDER
 E - EXTERIOR GIRDER



LRFR SUMMARY

PROJECT NO. B-4407
ANSON/STANLY COUNTY
 STATION: 32+31.61 -L-

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 DATE: 09/17/2016 09:57 AM on Thursday, February 04, 2021

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

DOCUMENT NOT CONSIDERED
 FINAL UNLESS ALL
 SIGNATURES COMPLETED

DWN. BY: WDC
 CHKD. BY: PRG
 DES. EGR. OF RECORD: PRG

DATE: 10/20/20
 DATE: 10/20/20
 DATE: 10/20/20

REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	S-6
1			3			TOTAL SHEETS 45
2			4			