

LEVEL		VEHICLE	WEIGHT (W) (TONS)	CONTROLLING LOAD RATING #	MINIMUM RATING FACTORS (RF)	TONS = W × RF	STRENGTH I LIMIT STATE								COMMENT NUMBER	
							LIVE-LOAD, FACTORS (γ _{LL})	MOMENT				SHEAR				
								RATING FACTOR	BOX NO.	ELEMENT TYPE	DISTANCE FROM LEFT END OF ELEMENT (ft)	RATING FACTOR	BOX NO.	ELEMENT TYPE		DISTANCE FROM LEFT END OF ELEMENT (ft)
DESIGN LOAD RATING		HL-93 (INVENTORY)	N/A	1	3.66	--	1.75	3.66	1	TOP SLAB	1.83	8.35	1	TOP SLAB	0.81	
		HL-93 (OPERATING)	N/A		4.74	--	1.35	4.74	1	TOP SLAB	1.83	10.82	1	TOP SLAB	0.81	
		HS-20 (INVENTORY)	36.000	2	4.06	146.16	1.75	4.06	1	TOP SLAB	1.83	9.20	1	EXT. WALL	0.86	
		HS-20 (OPERATING)	36.000		5.27	189.72	1.35	5.27	1	TOP SLAB	1.83	11.93	1	EXT. WALL	0.86	
LEGAL LOAD RATING	SINGLE VEHICLE (SV)	SNSH	13.500		6.14	82.89	1.40	6.14	1	BOTTOM SLAB	1.83	11.45	1	EXT. WALL	0.86	
		SNGARBS2	20.000		6.14	122.80	1.40	6.14	1	BOTTOM SLAB	1.83	11.46	1	EXT. WALL	0.86	
		SNAGRIS2	22.000		6.14	135.08	1.40	6.14	1	BOTTOM SLAB	1.83	11.45	1	EXT. WALL	0.86	
		SNCOTTS3	27.250		4.88	132.98	1.40	4.88	1	TOP SLAB	1.83	11.12	1	TOP SLAB	0.81	
		SNAGGRS4	34.925		4.08	142.49	1.40	4.08	1	TOP SLAB	1.83	9.11	1	TOP SLAB	3.50	
		SNS5A	35.550		4.61	163.89	1.40	4.61	1	TOP SLAB	1.83	10.31	1	TOP SLAB	0.81	
		SNS6A	39.950		4.51	180.17	1.40	4.51	1	TOP SLAB	1.83	9.89	1	TOP SLAB	0.81	
		SNS7B	42.000		4.51	189.42	1.40	4.51	1	TOP SLAB	1.83	9.89	1	TOP SLAB	0.81	
	TRUCK TRACTOR SEMI-TRAILER (TTS1)	TNAGRIT3	33.000		6.14	202.62	1.40	6.14	1	BOTTOM SLAB	1.83	11.41	1	EXT. WALL	0.86	
		TNT4A	33.075		5.80	191.84	1.40	5.80	1	TOP SLAB	1.83	11.45	1	EXT. WALL	0.86	
		TNT6A	41.600	2	4.23	175.97	1.40	4.23	1	TOP SLAB	1.83	9.40	1	TOP SLAB	0.81	
		TNT7A	42.000		4.51	189.42	1.40	4.51	1	TOP SLAB	1.83	9.99	1	TOP SLAB	0.81	
		TNT7B	42.000		4.53	190.26	1.40	4.53	1	TOP SLAB	1.83	9.93	1	TOP SLAB	0.81	
		TNAGRIT4	43.000		5.80	249.40	1.40	5.80	1	TOP SLAB	1.83	11.43	1	EXT. WALL	0.86	
TNAGT5A		45.000		5.80	261.00	1.40	5.80	1	TOP SLAB	1.83	11.43	1	EXT. WALL	0.86		
TNAGT5B		45.000		5.80	261.00	1.40	5.80	1	TOP SLAB	1.83	11.42	1	EXT. WALL	0.86		
EMERGENCY VEHICLE (EV)		EV2	28.750		4.70	135.13	1.30	4.70	1	TOP SLAB	1.83	10.73	1	TOP SLAB	0.81	
		EV3	43.000	4	4.23	181.89	1.30	4.23	1	TOP SLAB	1.83	9.66	1	TOP SLAB	0.81	

DESIGN LOAD RATING FACTORS		
LOAD TYPE	MAX FACTOR	MIN FACTOR
DC	1.25	0.90
DW	1.50	0.65
EV	1.30	0.90
EH	1.35	0.90
ES	1.35	0.90
LS	1.75	--
WA	1.00	--

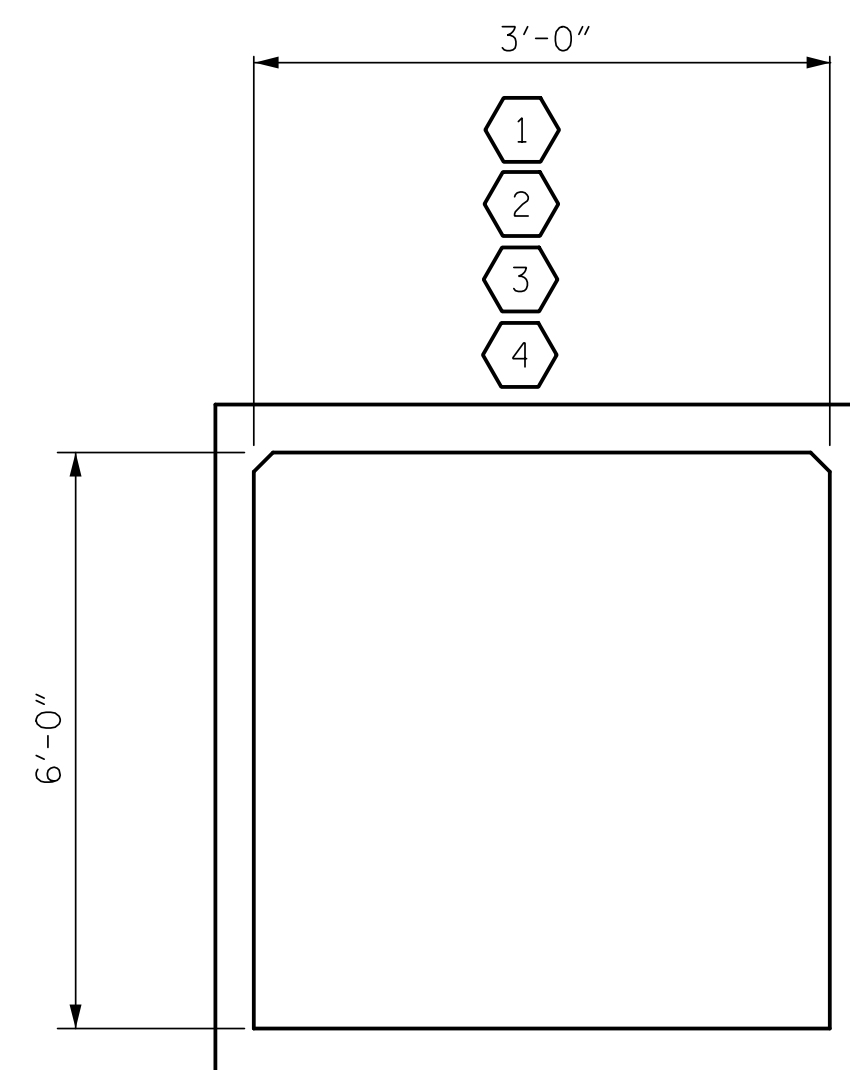
RATING FACTORS ARE BASED ON THE STRENGTH I LIMIT STATE.

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

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



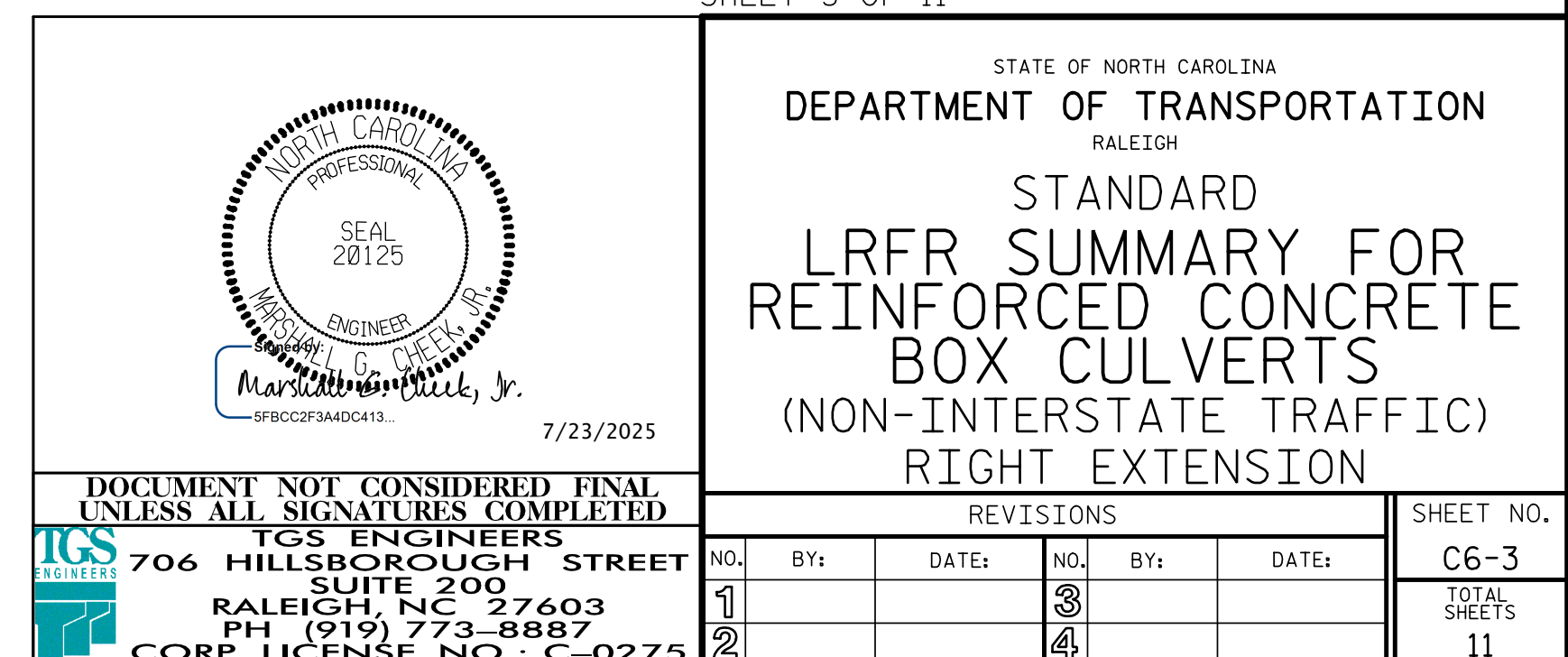
(LOOKING DOWNSTREAM)

ASSEMBLED BY :	STM	DATE :	07/23
CHECKED BY :	MGC	DATE :	11/23
DRAWN BY :	WMC 7/11	REV. 10/1/11	MAA/GM
CHECKED BY :	GM 7/11	REV. 12/17	MAA/THC
		REV. 04/23	BNB/AA

11/28/2023
X:\NCDOT\R-5739\Structures\Str.*6 (520 + 60.00 -L)\Final Plans\DGNs\416-001_R-5739_SMU-C6-3.dgn
User:ZSmith

PROJECT NO. R-5739
NORTHAMPTON COUNTY
 STATION: 520+60.00 -L-

SHEET 3 OF 11



STR. #6

STD. NO. LRFR5