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Report

Portsmouth Naval Shipyard Restore Water & Power Resiliency (P-1080)

Bridge No. 2 - Final Load Rating Report December 13, 2022

Table 1: Scenario #1 Rating Factors – Bridge Repairs with Vehicle Rail

RATING VEHICLE	RATING LEVEL	VEHICLE WEIGHT	INVENTORY RATING		OPERATING RATING		CONTROLLING MEMBER
			RATING FACTOR	LOAD RATING (TONS)	RATING FACTOR	LOAD RATING (TONS)	
HL93	Design	-	1.20	43.21	1.56	56.27	Interior Stringer Shear
HS20	Design	36 Tons	1.71	61.74	2.22	80.03	Interior Stringer Shear
H20	Design	20 Tons	1.74	34.82	2.25	45.14	Interior Stringer Shear
RATING VEHICLE	RATING LEVEL	VEHICLE WEIGHT	LRFR RATING FACTOR	LOAD RATING (TONS)	LRFR SAFE POSTING LOAD (TONS)	CONTROLLING MEMBER	
Type 3	AASHTO Legal	25 Tons	2.57	64.45	-	Main	Girder Flexure
Type 3S2	AASHTO Legal	36 Tons	2.82	101.78	-	Main	Girder Flexure
Type 3-3	AASHTO Legal	40 Tons	3.13	125.21	-	Main	Girder Flexure
SU4	SHV	27 Tons	2.30	62.12	-	Main	Girder Flexure
SU5	SHV	31 Tons	2.21	68.63	-	Main	Girder Flexure
SU6	SHV	35 Tons	2.21	76.94	-	Main	Girder Flexure
SU7	SHV	39 Tons	2.21	85.79	-	Main	Girder Flexure