



# BRIDGE LOAD RATING SUMMARY REPORT

## OFFICE OF STRUCTURAL ENGINEERING

### OHIO DEPARTMENT OF TRANSPORTATION

SFN	BRIDGE NUMBER	DISTRICT	GPS COORDINATES	
			LATITUDE:	LONGITUDE:
5002303	MAH-00080-01.250R	4	41.1122	-80.8144
ORIGINAL CONSTRUCTION YEAR	REHABILITATION YEAR	OVERALL STRUCTURE LENGTH	FEATURE INTERSECTED	
2007	-	2527 ft	Meander Reservoir	

**SPECIAL ASSUMPTIONS & COMMENTS**

21 span (1@112.75', 9@118', 2@112.75', 8@118' and 1@112.75' c/c bearings) continuous composite concrete deck slab bridge with no skew and 6-72" AASHTO Mod. Type IV PS concrete I-beam with a reinforced concrete substructure. The deck is made of reinforced concrete with a width of 61'-0" o/o and 58'-0" f/f curbs with a thickness of 9" and 3.375" of average haunch thickness. The ODOT STD. DWG SBR-1-99 parapets and PSID-1-99 (7/18/2008) X-frame are installed. The bridge has a 1" monolithic concrete wearing surface. The alignment is tangent. The bridge was built in 2009.

Assumptions: Applied 3.375" average haunch DL over PS I-beam and 3% additional self-weight to each member for extra DL.

Applied EV2 Factor = 1.3 and EV3 Scale Factor = 1.2 (LRFR Factors).

PLEASE SELECT ON RIGHT, WHERE APPROPRIATE, BY USING THE DROP DOWN ARROW BUTTON	
LOAD RATING PURPOSE :	8 - Update Analysis Model and Software
GENERAL APPRAISAL (0-9) :	7
(708) LOAD RATING SOFTWARE :	3 - AASHTO BrR (VIRTIS)
SOFTWARE VERSION :	6.8.4.3002
(709) RATING SOURCE :	1 - Plan information available for load rating analysis
(63)(65) RATING METHOD :	8 - Load & Resistance Factor Rating (LRFR) reported by rating factor (RF)
(31) ORIGINAL DESIGN LOADING :	9 - HS25 or Greater

#### STRUCTURE RATING SUMMARY

OHIO LEGAL VEHICLES				DESIGN VEHICLE		
Loading Type	GVW (Tons)	Operating Rating RF	Legal Weight (Tons)	Loading Type	Rating by RF	
					Operating	Inventory
2F1	15	7.005	15.00	HL93 Loading	2.343	1.266
3F1	23	4.631	23.00			
4F1	27	4.025	27.00			
5C1	40	3.505	40.00			
					Overall Legal Posting Rating	150%
				Posting Recommendation	No Load Posting is Recommended	
SPECIALIZED HAULING VEHICLES (SHV)				Sign Posting Recommendation:		
SU4	27	4.009	27.00			
SU5	31	3.569	31.00			
SU6	34.75	3.191	34.75			
SU7	38.75	2.894	38.75			
EMERGENCY VEHICLES (EV)						
Check box if this is an NBI bridge <input checked="" type="checkbox"/>						
EV2	28.75	4.303	28.75			
EV3	43	3.080	43.00			

AGENCY/FIRM/OFFICE	2LMN, Inc	Report Date	9/15/2021
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	Rated By	Reviewed By
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