



# BRIDGE LOAD RATING SUMMARY REPORT

## OFFICE OF STRUCTURAL ENGINEERING

### OHIO DEPARTMENT OF TRANSPORTATION

SFN	BRIDGE NUMBER	DISTRICT	GPS COORDINATES	
			LATITUDE:	LONGITUDE:
3003337	GUE-77-1548R	5	40.10927	-81.5619
ORIGINAL CONSTRUCTION YEAR	REHABILITATION YEAR	OVERALL STRUCTURE LENGTH	FEATURE INTERSECTED	
1968	2017	184 ft	NB IR 77 OVER SPILLWAY	

**SPECIAL ASSUMPTIONS & COMMENTS**

Modeled by MBJ, reviewed by BPN, Mar. 2021, from original & redeck construction plans, standard drawings and inspection data.

3 span (56', 70', 56' c/c brgs) continuous steel beam with composite reinforced deck (8.75" thick) on reinforced concrete substructure. Bridge alignment is curved right (modeled as tangent) with a skew of 3deg 21min 54sec RF, a roadway width of 40'-8" toe/toe parapets and an original design loading of CF=2000(57). Used modified EV live load factors. [EV2=1.3, EV3=1.2]

<b>PLEASE SELECT ON RIGHT, WHERE APPROPRIATE, BY USING THE DROP DOWN ARROW BUTTON</b>	
<b>LOAD RATING PURPOSE :</b>	8 - Update Analysis Model and Software
<b>GENERAL APPRAISAL (0-9) :</b>	9
<b>(708) LOAD RATING SOFTWARE :</b>	3 - AASHTO BrR (VIRTIS)
<b>SOFTWARE VERSION :</b>	6.8.4.3002
<b>(709) RATING SOURCE :</b>	1 - Plan information available for load rating analysis
<b>(63)(65) RATING METHOD :</b>	8 - Load & Resistance Factor Rating (LRFR) reported by rating factor (RF)
<b>(31) ORIGINAL DESIGN LOADING :</b>	5 - HS20

#### 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	5.272	15.00	HL93 Loading	1.579	1.218			
3F1	23	3.612	23.00						
4F1	27	3.211	27.00						
5C1	40	2.538	40.00						
							<b>Overall Legal Posting Rating</b>	150%	
				<b>Posting Recommendation</b>	No Load Posting is Recommended				
SPECIALIZED HAULING VEHICLES (SHV)				<b>Sign Posting Recommendation:</b>					
SU4	27	3.184	27.00						
SU5	31	2.909	31.00						
SU6	34.75	2.640	34.75						
SU7	38.75	2.464	38.75						
EMERGENCY VEHICLES (EV)									
<i>Check box if this is an NBI bridge</i> <input checked="" type="checkbox"/>									
EV2	28.75	3.417	28.75						
EV3	43	2.265	43.00						

<b>AGENCY/FIRM/OFFICE</b>	ODOT-Office of Structural Engineering	<b>Report Date</b>	3/1/2021
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	<b>Rated By</b>	<b>Reviewed By</b>
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