




BRIDGE LOAD RATING SUMMARY REPORT

OFFICE OF STRUCTURAL ENGINEERING

OHIO DEPARTMENT OF TRANSPORTATION

SFN (SNBI Bridge Number)		Ohio Bridge Number (Bridge Asset Name)		District	GPS Coordinates							
5103932		MAR-00746-0905		6	LATITUDE: 40.621315	LONGITUDE: -82.962559						
Original Year Built		Year Re-built	Total length	Structure Type XXX	Feature Intersected							
1955		1983/2026	174 ft	402	OLENTANGY RIVER							
SPECIAL ASSUMPTIONS & COMMENTS		Three span (52.0', 65.0' and 52.0' c/c bearings) continuous composite rolled steel beam bridge with 30°00'00" right forward skew and 5-steel rolled I-beams (30WF108). Reinforced concrete deck with a width of 28'-0" o/o and 28'-0" f/f TST railing (TS-1-99) Updates for 2026 rehab: deck concrete, f'c = 4.5ksi, reinforcing steel, fy = 60ksi, deck thickness = 8.5", overhang thickness = 1'-6", 0 psf FWS.										
Controlling Rating Details	Minimum Legal Rating = 1.082, Live Load = SU7, Member =B1 (Exterior Beam) Location: Span 1 - (75.6%) (39.33ft along the member) → Limit State = STRENGTH-I Steel Flexure Stress											
	HL-93 Minimum Inventory Rating = 0.655, Member =B1 (Exterior Beam) Location: Span 1 - (100.0%) (52ft along the member) → Limit State = STRENGTH-I Steel Flexure Stress											
	HL-93 Minimum Operating Rating = 0.849, Member =B1 (Exterior Beam) Location: Span 1 - (100.0%) (52ft along the member) → Limit State = STRENGTH-I Steel Flexure Stress											
		Please type or select on right using drop down arrow			Place Engineers Seal Below							
Load Rating Purpose:		2 - Rehabilitation			 5/30/2025							
Bridge Appraisal Rating (0-9):		6										
Load rating Software:		3 - AASHTO BrR										
Software version:		7.6.1.3001										
Rating Source:		1 - Plan information available for load rating analysis										
Load Rating Method:		LRFR - Load & Resistance Factor Rating (RF) - Code 8										
Design Loading:		4 - H20										
STRUCTURE RATING SUMMARY												
OHIO & AASHTO LEGAL VEHICLES					DESIGN AND OPERATING RATINGS							
Legal Load	GVW (Tons)	No of Axles	Rating Factor RF	Safe Weight (Tons)	Loading Type	Rating by RF						
						Inventory Operating						
2F1	15	2	2.659	15.00	HL93 Loading	0.618 0.802						
3F1	23	3	1.737	23.00	Recommendation	No Load Posting is Recommended						
5C1	40	5	1.222	40.00	Sign Posting Recommendation:							
Type 3	25	3	1.665	25.00								
Type 3-3	40	6	1.420	40.00								
Type 3S2	36	5	1.445	36.00								
SPECIALIZED HAULING VEHICLES (SHV)												
SU4/4F1	27	4	1.499	27.00								
SU5	31	5	1.328	31.00	Permit Load (PL) Analysis **	Calculated Load (Tons)						
SU6	34.75	6	1.190	34.75								
SU7	38.75	7	1.082	38.75								
EMERGENCY VEHICLES (EV) Check box if rating for EV3 <input checked="" type="checkbox"/>												
EV2	28.75	2	1.595	28.75	Loading Type	GVW (Tons)	No of Axles	Rating Factor	Calculated Load (Tons)			
EV3	43	3	1.175	43.00	PL 60T	60	6	1.170	70.20			
					PL 65T	65	7	1.174	76.31			
Controlling Legal Load RF					108%		1.08		PL Analysis Method		Load & Resistance Factor Rating (LRFR)	
AGENCY/FIRM/OFFICE		Fishbeck										
	Name	PE Number	Phone Number		Email		Report Date:	5/29/2025				
Rated By	Tara Campbell	84482	513-247-8568		tlcampbell@fishbeck.com							
Reviewed By	Brad Garrison	79104	937-802-3301		bgarrison@fishbeck.com							

** ODOT bridges to be analyzed for permit trucks by policy.

Analysis for permit trucks is optional for non-ODOT bridges and at owner's discretion.

BR-100 (01/2024)