



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					
			LATITUDE:	LONGITUDE:				
3431790	HAS-BRDGE-00.045	11	40.425675	-81.1871667				
Original Year Built	Year Re-built	Total length	Structure Type XXX	Feature Intersected				
Proposed	N/A	86 ft	505	CONOTTON CREEK				
SPECIAL ASSUMPTIONS & COMMENTS	Rated by: AI 11/03/2025 Checked by: TDA 11/04/2025							
	Single span (83'-0" C/C Bearings) prestressed adjacent box beams (CB33-48) with 6" minimum composite reinforced concrete deck including 1" monolithic wearing surface; Skew = 0 degrees; 32'-0" O/O deck width; 6'-0" non-raised sidewalk on west side and Modified TST-1-99 railing on both sides; Design for FWS = 60 psf; Rated for FWS = 0 psf; Deck f'c = 4.5 ksi (Class QC2 Concrete); Prestressed Box Beam concrete f'c initial = 5.0 ksi, f'c final = 7.0 ksi; Prestressing strands (Low Relaxation) As = 0.167 sq in; Ultimate Strength = 270 ksi							
Please type or select on right using drop down arrow								
Load Rating Purpose:	1 - Initial Load Rating							
Bridge Appraisal Rating (0-9):	9							
Load rating Software:	3 - AASHTO BrR							
Software version:	7.6.1							
Rating Source:	1 - Plan information available for load rating analysis							
Load Rating Method:	LRFR - Load & Resistance Factor Rating (RF) - Code 8							
Design Loading:	A - HL93							
STRUCTURE RATING SUMMARY								
OHIO & AASHTO LEGAL VEHICLES								
Legal Load	GVW (Tons)	No of Axles	Rating Factor RF	Safe Weight (Tons)				
2F1	15	2	6.402	15.00				
3F1	23	3	4.282	23.00				
5C1	40	5	3.388	40.00				
Type 3	25	3	4.074	25.00				
Type 3-3	40	6	3.367	40.00				
Type 3S2	36	5	3.390	36.00				
SPECIALIZED HAULING VEHICLES (SHV)								
SU4/4F1	27	4	3.718	27.00				
SU5	31	5	3.310	31.00				
SU6	34.75	6	3.068	34.75				
SU7	38.75	7	2.863	38.75				
DESIGN AND OPERATING RATINGS								
Loading Type	Rating by RF							
	Inventory	Operating						
HL93 Loading	1.681	2.179						
Recommendation	No Load Posting is Recommended							
Sign Posting Recommendation:								
EMERGENCY VEHICLES (EV)								
Check box if rating for EV3 <input checked="" type="checkbox"/>								
EV2	28.75	2	3.482	28.75				
EV3	43	3	2.771	43.00				
Permit Load (PL) Analysis **								
Loading Type	GVW (Tons)	No of Axles	Rating Factor	Calculated Load (Tons)				
PL 60T	60	6	3.286	197.16				
PL 65T	65	7	2.604	169.26				
Controlling Legal Load RF								
150%		1.50						
PL Analysis Method								
Load & Resistance Factor Rating (LRFR)								
AGENCY/FIRM/OFFICE		EMH&T						
Name	PE Number	Phone Number	Email	Report Date:	2025-12-08			
Rated By	Abdul Saboor Ibrhaim Khail	90769	614-775-4631	aibrahimkhail@emht.com				
Reviewed By	Tyler D. Adams	80227	614-775-4602	tadams@emht.com				

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

BR-100 (01/2024)

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