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:
0602108	AUG-00075-05150L		7	40.556654	-84.17008
Original Year Built	**Year Re-built**	**Total length**	**Structure Type XXX**	**Feature Intersected**	
1958	N/A	146 ft	201	PENN CENTRAL R.R.	

SPECIAL ASSUMPTIONS & COMMENTS	Modeled by HK (ODOT), reviewed by RKH PE 68559, Mar 2024, from Original Plans (1957), Rehabilitation Plans (2014), standard drawings and inspection data. The three span (44'-0", 55'-0", 44'-0" c/c bearings) superstructure consists of a continuous 24.5" thick reinforced concrete slab, including a 1" thick monolithic wearing surface. The deck slab width is 48'-6" O/O and 44'-6" F/F Parapets. The bridge has a 21.358 degree L.F. skew and is on a tangent alignment. A 6" thick bituminous wearing surface was installed in 2018 per Asset Details. The controlling location is in Span 1 at 17'-7 1/4" from Rear Abutment in the slab and is controlled by flexure.
	Please type or select on right using drop down arrow
Load Rating Purpose:	8 - Update Analysis Model and Software
Bridge Appraisal Rating (0-9):	7
Load rating Software:	3 - AASHTO BrR
Software version:	7.4.1.3001
Rating Source:	1 - Plan information available for load rating analysis
Load Rating Method:	LRFR - Load & Resistance Factor Rating (RF) - Code 8
Design Loading:	5 - HS20



STRUCTURE RATING SUMMARY

OHIO & AASHTO LEGAL VEHICLES

Legal Load	GVW (Tons)	No of Axles	Rating Factor RF	Safe Weight (Tons)
2F1	15	2	3.061	15.00
3F1	23	3	2.133	23.00
5C1	40	5	1.942	40.00
Type 3	25	3	2.191	25.00
Type 3-3	40	6	2.257	40.00
Type 3S2	36	5	2.296	36.00

SPECIALIZED HAULING VEHICLES (SHV)

SU4/4F1	27	4	1.896	27.00
SU5	31	5	1.755	31.00
SU6	34.75	6	1.605	34.75
SU7	38.75	7	1.522	38.75

EMERGENCY VEHICLES (EV)

Check box if rating for EV3 ☑

EV2	28.75	2	1.862	28.75
EV3	43	3	1.339	43.00

Controlling Legal Load RF	150%	1.50

DESIGN AND OPERATING RATINGS

Loading Type	Rating by RF	
	Inventory	Operating
HL93 Loading	1.027	1.331
Recommendation	No Load Posting is Recommended	
Sign Posting Recommendation:		

Permit Load (PL) Analysis **

Loading Type	GVW (Tons)	No of Axles	Rating Factor	Calculated Load (Tons)
PL 60T	60	6	1.347	80.82
PL 65T	65	7	1.348	87.62

PL Analysis Method	Load & Resistance Factor Rating (LRFR)

AGENCY/FIRM/OFFICE	SJCA Inc.				
	Name	**PE Number**	**Phone Number**	**Email**	**Report Date:** 2024-03-27
Rated By	Hemapriya Krishnaraj	N/A	614-387-6179	Hemapriya.Krishnaraj@dot.ohio.gov	
Reviewed By	Rajiv K. Huria	68559	317-407-4380	rhuria@sjcainc.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.