

## OFFICE OF STRUCTURAL ENGINEERING OHIO DEPARTMENT OF TRANSPORTATION

OFTRAN	~		OHIO DEPARTMENT OF TRANSPORTATION							
SFN (SNBI Bridge Number)			Ohio Bridge Number		District			GPS Coordinates		
3FN (SNB) Blidge Nulliber)			(Bridge Asset Name)		DISTI			LATITUDE:		LONGITUDE:
3108678			HAM-00074-1335		8			39.186622		-84.627992
Original Year Built			Year Re-built	Total length	Structure XXX			Feature Intersected		
1969			N/A	252 ft	402	!		IR 74		
SPECIAL ASSUMPTIONS & COMMENTS			Modeled from original plans (1965), ODOT standard drawings, and inspection records.  4-Span Continuous (49'-0", 69'-6", 73'-0", 58'-0" c/c brgs) steel beams with non-composite reinforced concrete deck on a tangent alignment. Deterioration of Beams 1 & 2 included per inspection notes, Superstructure GA = 5.  Wearing surface of 2.0" thick (Integral Concrete) included per NBIS records.  Minimum Legal Rating = 1.460, Live Load = SU7, Member = B2 (Interior) @ Span 1 - (40.0%) (19.6ft along the member) :							
			Limit State = SERVICE-II Steel Flexure Stress							
			Please type or select on right using drop down arrow							
Load Rating Purpose:			8 - Update Analysis Model and Software					Sealed by:		
Bridge Appraisal Rating (0-9):			5				Cole Marburger	Cole Marburger  Cole Marburger  COLE  TIMOTHY  MARBURGER  E-78921		
Load rating Software:			3 - AASHTO BrR						zning.	COLE
Software version:			7.4.1.3001						<b>*</b> *:	MARBURGER *
Routine Permit Load (RPL):			N - Agency does not issue routine permits					PR.	E-78921	
Rating Source:			1 - Plan information available for load rating analysis					THIN	SOMMENCHIA	
Load Rating Method:			LRFR - Load & Resistance Factor Rating (RF) - Code 8				MAN SONAL ENGINEER			
Design Loading:			4 - H20				Coles Morbarger			
				STRUCTL	JRE RATING	SUMM	ARY			
					DESIGN AND OPERATING RATINGS					
	OHIO & A	ASHTO	LEGAL VEHICLES					Rating by RF		
Landland		ASHTO No of	Rating Factor	Safe Weight	1	T				F
Legal Load	GVW (Tons)		ı	Safe Weight (Tons)	Load	ling Type				F Operating
2F1	GVW (Tons)	No of Axles	Rating Factor RF 3.017	(Tons) 15.00	HL93	Loading	!	Inventory 1.092	Rating by R	Operating 1.415
2F1 3F1	<b>GVW (Tons)</b> 15 23	No of Axles 2 3	Rating Factor RF 3.017 2.086	(Tons) 15.00 23.00	HL93		!	Inventory 1.092	Rating by R	Operating
2F1 3F1 5C1	15 23 40	No of Axles	Rating Factor RF 3.017	(Tons) 15.00	HL93	Loading	!	Inventory 1.092	Rating by R	Operating 1.415
2F1 3F1	<b>GVW (Tons)</b> 15 23	No of Axles  2  3  5	Rating Factor RF 3.017 2.086 2.137	(Tons) 15.00 23.00 40.00	HL93	Loading	!	Inventory 1.092	Rating by R	Operating 1.415
2F1 3F1 5C1 Type 3	15 23 40 25	No of Axles  2  3  5	Rating Factor RF 3.017 2.086 2.137 2.119	(Tons) 15.00 23.00 40.00 25.00	HL93	Loading	!	Inventory 1.092	Rating by R	Operating 1.415
2F1 3F1 5C1 Type 3	15 23 40 25 40 36	No of Axles  2  3  5  3  6  5	Rating Factor RF 3.017 2.086 2.137 2.119 2.341	(Tons) 15.00 23.00 40.00 25.00 40.00 36.00	HL93 Recom	Loading mendati	on	Inventory 1.092	Rating by R	Operating 1.415
2F1 3F1 5C1 Type 3 Type 3-3 Type 3S2	15 23 40 25 40 36 <b>SPECIALIZED</b>	No of Axles  2  3  5  3  6  5  HAULIN  4	Rating Factor RF 3.017 2.086 2.137 2.119 2.341 2.134 RG VEHICLES (SHV) 1.847	(Tons) 15.00 23.00 40.00 25.00 40.00 36.00	HL93 Recom	Loading mendati	on	Inventory 1.092	Rating by R	Operating 1.415
2F1 3F1 5C1 Type 3 Type 3-3 Type 3S2 SU4/4F1 SU5	900 (Tons)  15 23 40 25 40 36  SPECIALIZED 27 31	No of Axles  2  3  5  3  6  5  HAULIN  4  5	Rating Factor RF 3.017 2.086 2.137 2.119 2.341 2.134 RG VEHICLES (SHV) 1.847 1.698	(Tons) 15.00 23.00 40.00 25.00 40.00 36.00  27.00 31.00	HL93 Recom	Loading mendati	on	Inventory 1.092	Rating by R	Operating 1.415
2F1 3F1 5C1 Type 3 Type 3-3 Type 352  SU4/4F1 SU5 SU6	15 23 40 25 40 36 <b>SPECIALIZED</b> 27 31 34.75	No of Axles  2  3  5  3  6  5  HAULIN  4	Rating Factor RF 3.017 2.086 2.137 2.119 2.341 2.134 RG VEHICLES (SHV) 1.847 1.698 1.547	(Tons) 15.00 23.00 40.00 25.00 40.00 36.00  27.00 31.00 34.75	HL93 Recom	Loading mendati	on	Inventory 1.092	Rating by R	Operating 1.415
2F1 3F1 5C1 Type 3 Type 3-3 Type 3S2 SU4/4F1 SU5	GVW (Tons)  15 23 40 25 40 36  SPECIALIZED 27 31 34.75 38.75	No of Axles  2  3  5  3  6  5  HAULIN  4  5  6  7	Rating Factor RF 3.017 2.086 2.137 2.119 2.341 2.134 RG VEHICLES (SHV) 1.847 1.698	(Tons) 15.00 23.00 40.00 25.00 40.00 36.00  27.00 31.00	HL93 Recom	Loading mendati	on	Inventory 1.092	Rating by R	Operating 1.415
2F1 3F1 5C1 Type 3 Type 3-3 Type 352  SU4/4F1 SU5 SU6	GVW (Tons)  15 23 40 25 40 36  SPECIALIZED 27 31 34.75 38.75  EMERG	No of Axles  2  3  5  3  6  5  HAULIN  4  5  6  7	Rating Factor RF 3.017 2.086 2.137 2.119 2.341 2.134 RG VEHICLES (SHV) 1.847 1.698 1.547 1.460 EHICLES (EV)	(Tons) 15.00 23.00 40.00 25.00 40.00 36.00  27.00 31.00 34.75	HL93 Recom	Loading mendati	on	Inventory 1.092 No Load P	Rating by R	Operating 1.415
2F1 3F1 5C1 Type 3 Type 3-3 Type 352  SU4/4F1 SU5 SU6	GVW (Tons)  15 23 40 25 40 36  SPECIALIZED 27 31 34.75 38.75  EMERG	No of Axles  2  3  5  3  6  5  HAULIN  4  5  6  7	Rating Factor RF 3.017 2.086 2.137 2.119 2.341 2.134 RG VEHICLES (SHV) 1.847 1.698 1.547 1.460 EHICLES (EV)	(Tons)  15.00  23.00  40.00  25.00  40.00  36.00  27.00  31.00  34.75  38.75	Recom Sign Recom	Posting mendation	on On:	Inventory 1.092 No Load Po	Rating by R	Operating 1.415 commended
2F1 3F1 5C1 Type 3 Type 3-3 Type 3S2  SU4/4F1 SU5 SU6 SU7	GVW (Tons)  15 23 40 25 40 36  SPECIALIZED 27 31 34.75 38.75  EMERG Check bo	No of Axles  2  3  5  3  6  5  D HAULIN  4  5  6  7  GENCY Vox if ratio	Rating Factor RF 3.017 2.086 2.137 2.119 2.341 2.134  RG VEHICLES (SHV) 1.847 1.698 1.547 1.460  TEHICLES (EV) ng for EV3	(Tons) 15.00 23.00 40.00 25.00 40.00 36.00  27.00 31.00 34.75 38.75	Recom Sign Recom	Posting mendation	on:	Inventory 1.092 No Load P	Rating by R	Operating 1.415 commended  Calculated Load (Tons)
2F1 3F1 5C1 Type 3 Type 3-3 Type 352  SU4/4F1 SU5 SU6 SU7	GVW (Tons)  15 23 40 25 40 36  SPECIALIZED 27 31 34.75 38.75  EMERG Check be	No of Axles  2 3 5 3 6 5 D HAULIN 4 5 6 7 GENCY V ox if ratio	Rating Factor RF 3.017 2.086 2.137 2.119 2.341 2.134 RG VEHICLES (SHV) 1.847 1.698 1.547 1.460 EHICLES (EV) ng for EV3 1.808	(Tons) 15.00 23.00 40.00 25.00 40.00 36.00  27.00 31.00 34.75 38.75	Recom Sign Recom Loading Type PL 60T	Posting mendation of the control of	on:  No of Axles	Inventory 1.092 No Load Po	Rating by R	Operating 1.415 commended  Calculated Load (Tons) 171.30
2F1 3F1 5C1 Type 3 Type 3-3 Type 3S2  SU4/4F1 SU5 SU6 SU7	GVW (Tons)  15 23 40 25 40 36  SPECIALIZED 27 31 34.75 38.75  EMERG Check be	No of Axles  2  3  5  3  6  5  HAULIN  4  5  6  7  GENCY V  ox if ratio	Rating Factor RF 3.017 2.086 2.137 2.119 2.341 2.134 RG VEHICLES (SHV) 1.847 1.698 1.547 1.460 EHICLES (EV) ng for EV3 1.808	(Tons) 15.00 23.00 40.00 25.00 40.00 36.00  27.00 31.00 34.75 38.75	Recom Sign Recom Loading Type PL 60T	Posting mendation GVW (Tons) 60 65	No of Axles 6 7	Inventory 1.092 No Load Po No Load Po Rating Facto 2.855 2.308	nating by R	Operating 1.415 commended  Calculated Load (Tons) 171.30
2F1 3F1 5C1 Type 3 Type 3-3 Type 3S2  SU4/4F1 SU5 SU6 SU7  EV2 EV3	GVW (Tons)  15 23 40 25 40 36  SPECIALIZED 27 31 34.75 38.75  EMERO Check box	No of Axles  2  3  5  3  6  5  HAULIN  4  5  6  7  GENCY V  ox if ratio	Rating Factor RF 3.017 2.086 2.137 2.119 2.341 2.134  RG VEHICLES (SHV) 1.847 1.698 1.547 1.460  FEHICLES (EV) ng for EV3  1.808 1.199	(Tons)  15.00  23.00  40.00  25.00  40.00  36.00  27.00  31.00  34.75  38.75	Sign Recom	Posting mendation (Tons) 60 65	No of Axles 6 7	Inventory 1.092 No Load Po No Load Po Permit Load (PL) Ana Rating Facto 2.855 2.308 Load & Resist	nating by R	Operating 1.415 commended  Calculated Load (Tons) 171.30 150.02
2F1 3F1 5C1 Type 3 Type 3-3 Type 3S2  SU4/4F1 SU5 SU6 SU7  EV2 EV3	GVW (Tons)  15 23 40 25 40 36  SPECIALIZED 27 31 34.75 38.75  EMERO Check box 28.75 43  ng Legal Load  RM/OFFICE	No of Axles  2  3  5  3  6  5  HAULIN  4  5  6  7  GENCY V  ox if ratio	Rating Factor RF 3.017 2.086 2.137 2.119 2.341 2.134 2.134 RG VEHICLES (SHV) 1.847 1.698 1.547 1.460 EHICLES (EV) ng for EV3 1.808 1.199 146% PE	(Tons)  15.00  23.00  40.00  25.00  40.00  36.00  27.00  31.00  34.75  38.75	Sign Recom	Posting mendation (Tons) 60 65	No of Axles 6 7	Inventory 1.092 No Load Po No Load Po Permit Load (PL) Ana Rating Facto 2.855 2.308 Load & Resist	nosting is Reconstruction in the control of the con	Operating 1.415 commended  Calculated Load (Tons) 171.30 150.02
2F1 3F1 5C1 Type 3 Type 3-3 Type 3S2  SU4/4F1 SU5 SU6 SU7  EV2 EV3	GVW (Tons)  15 23 40 25 40 36 SPECIALIZED 27 31 34.75 38.75 EMERC Check box 28.75 43  ng Legal Load RM/OFFICE Na	No of Axles  2 3 5 3 6 5  PHAULIN 4 5 6 7  GENCY V  Ox if ratio	Rating Factor RF 3.017 2.086 2.137 2.119 2.341 2.134 RG VEHICLES (SHV) 1.847 1.698 1.547 1.460 EHICLES (EV) ng for EV3 1.808 1.199	(Tons)  15.00  23.00  40.00  25.00  40.00  36.00  27.00  31.00  34.75  38.75  28.75  43.00	Sign Recom	Posting mendation (Tons) 60 65	No of Axles 6 7	Permit Load (PL) Ana Rating Facto  2.855  2.308  Load & Resisting	nosting is Reco	Operating 1.415 commended  Calculated Load (Tons) 171.30 150.02