

## **BRIDGE LOAD RATING SUMMARY REPORT** OFFICE OF STRUCTURAL ENGINEERING OUIO DEDADTMENT OF TRANSPORTATION

OFTAN		OHIO DEI	AKIMEN	T OF TRANSI	PORTATION	
SFN		BRIDGE NUM	BER	DISTRICT	GPS COORDINATES	
7700370		SUM-8-019	9L	4	LATITUDE: 41 05' 20.08"	81 30' 02.25"
ORIGINAL CONSTRUCTION YEAR	REHAB	ILITATION YEAR		RUCTURE LENGTH		NTERSECTED
2019			1	.620 ft	Little Cuyahoga River	, North Street, Railroads
PECIAL ASSUMPTIONS COMMENTS	Analyzed 60 psf Fu Based or Controlli Location Limit Sta The struct The 5C1	Span continuous steel girder with composite reinforced con with AASHTOWare BrR 3D FEM sofware ture Wearing Surface included. Proposed Construction Plans. ng Girder: Exterior Girder 1 933.50' (Span 3, 100%) ne: Strength I-Steel Flexure Stress ture was also rated using 5C1 Truck Train loading as specifie ruck Train was loaded in the right-most lane with a single 5- Distribution Factor Analysis.		ied in BDM Section 918.	t lane and was analyzed	
		PLEASE	SELECT ON RIGHT	WHERE APPROPRIAT	E, BY USING THE DROP DOW	N ARROW BUTTON
DAD RATING PURPOSE	:	1 - Initial Load Rating				
ENERAL APPRAISAL (0-	9) :	9				
708) LOAD RATING SOFT	TWARE:	3 - AASHTO BrR (VIRTIS)				
OFTWARE VERSION :		6.8.3.3001				
709) RATING SOURCE :		1 - Plan information available for load rating analysis				
53)(65) RATING METHO		8 - Load & Resistance Factor Rating (LRFR) reported by rating factor (RF)				
31) ORIGINAL DESIGN LO	OADING:		A - HL93			

## STRUCTURE RATING SUMMARY

OHIO LEGAL VEHICLES				
I and in a Trunc	GVW	Operating Rating	Legal Weight	
Loading Type	(Tons)	RF	(Tons)	
2F1	15	8.498	15.00	
3F1	23	5.694	23.00	
4F1	27	4.896	27.00	
5C1	40	2.107	40.00	
	SPECIALIZE	ED HAULING VEHICLES (SHV	/)	
SU4	27	4.889	27.00	
SU5	31	4.297	31.00	
SU6	34.75	3.837	34.75	
SU7	38.75	3.458	38.75	
EMERGENCY VEHICLES (EV)				

DE	SIGN VEHICLE		
Loading Type	Rating by RF		
Loading Type	Operating	Inventory	
HL93 Loading	1.529	1.180	
Overall Legal Besting Bating	15	00/	

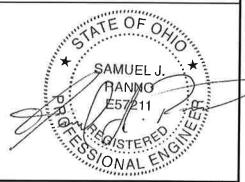
Overall Legal Posting Rating	150%	
Posting Recommendation	No Load Posting is Recommended	

**Report Date** 

EMERGENCY VEHICLES (EV)				
Check box if this is an NBI bridge 🔽				
EV2	28.75	6.647	28.75	
EV3	43	4.406	43.00	

Sign Posting Recommendation:

AGENCY/FIRM/OFFICE		m	consultants, inc	
15 120- SIT		Rated By	Reviewed By	
Name:	ŀ	Kevin Livengood	Samuel J Ranno	
PE Number:		OH 84741	OH 57211	
Phone Number:		412-264-8701	330-744-5321	
Email:	klivengoo	d@msconsultants.com	sranno@msconsultants.com	



9/18/2019



## BRIDGE LOAD RATING SUMMARY REPORT OFFICE OF STRUCTURAL ENGINEERING OHIO DEPARTMENT OF TRANSPORTATION

	O.HO DEI	, IVIEIV	1 OI IIIAIISI			
SFN	BRIDGE NUM	BER	DISTRICT		RDINATES	
7700774				LATITUDE:	LONGITUDE:	
7700371	SUM-8-019	9R	4	41 05' 19.79"	81 30' 00.71"	
ORIGINAL CONSTRUCTION YEAR	REHABILITATION YEAR	OVERALL ST	RUCTURE LENGTH	FEATURE II	FEATURE INTERSECTED	
2019			1588 ft	Little Cuyahoga River,	North Street, Railroads	
PECIAL ASSUMPTIONS & COMMENTS	Analyzed with AASHTOWan 60 psf Future Wearing Surf Based on Proposed Constri Controlling Girder: Exterio Location: 832.00' (Span 3, Limit State: Strength I-Stee The structure was also rate	urface included. truction Plans. rior Girder 7 3, 100%) reel Flexure Stress rited using 5C1 Truck Train loading as specifie loaded in the right-most lane with a single 50				
	PLEASE	SELECT ON RIGHT	, WHERE APPROPRIATE	, BY USING THE DROP DOW	N ARROW BUTTON	
OAD RATING PURPOSE :		1 - Initial Load Rating				
NERAL APPRAISAL (0-9)		9				
08) LOAD RATING SOFTW	ARE:	3 - AASHTO BrR (VIRTIS)				
OFTWARE VERSION :		6.8.3.3001				
709) RATING SOURCE :		1 - Plan information available for load rating analysis				
3)(65) RATING METHOD:		8 - Load & Resistance Factor Rating (LRFR) reported by rating factor (RF)				
1) ORIGINAL DESIGN LOAD	DING:		A - H			
		STRUCTURE	RATING SUMMARY			

## STRUCTURE RATING SUMMARY

OHIO LEGAL VEHICLES				
Loading Type	GVW (Tons)	Operating Rating RF	Legal Weight (Tons)	
2F1	15	7.452	15.00	
3F1	23	5.027	23.00	
4F1	27	4.394	27.00	
5C1	40	2.648	40.00	
	SPECIALIZE	D HAULING VEHICLES (SHV	()	
SU4	27	4.376	27.00	
SU5	31	3.885	31.00	
SU6	34.75	3.501	34.75	
SU7	38.75	3.225	38.75	
EMERGENCY VEHICLES (EV)  Check box if this is an NBI bridge				

DESIGN VEHICLE				
Loading Type	Rating by RF			
Loading Type	Operating	Inventory		
HL93 Loading	1.885	1.454		
Overall Logal Posting Pating	15	00/		

Overall Legal Posting Rating	150%	
Posting Recommendation	No Load Posting is Recommended	

T 788	EME	RGENCY VEHICLES (EV)				
	Check bo	x if this is an NBI bridge 🔽				
EV2	28.75	6.122	28.75			
EV3						

Sign Posting Recommendation:

AGENCY/FIRM	RM/OFFICE ms consultants, inc		s consultants, inc
		Rated By	Reviewed By
Name:	К	evin Livengood	Samuel J Ranno
PE Number:		OH 84741	OH 57211
Phone Number:		412-264-8701	330-744-5321
Email:	klivengood	d@msconsultants.com	sranno@msconsultants.com

