# COMMUNITY COST-SHARE AGREEMENT BY AND BETWEEN THE NORTHEAST OHIO REGIONAL SEWER DISTRICT AND CITY OF PARMA

This Agreement is made and entered into this day of	•
2018, by and between the Northeast Ohio Regional Sewer District (District) actin	g pursuant to
Resolution No. 114-13, adopted by the Board of Trustees of the District on May 1	6, 2013
(Exhibit "A"), and City of Parma (City) acting pursuant to Ordinance/Resolution	
, adopted on, 20 (Exhibit "B").	

#### Recitals

WHEREAS, the District, as a component of implementing a regional stormwater management program, manages a financial account termed the "Community Cost-Share Account" that is for the aggregation and dissemination of funds derived from revenues collected from the Stormwater Fee; and

WHERAS, the purpose of the Community Cost-Share Account is to provide funding to assist the City with District-approved projects through the Community Cost Share Program; and

WHEREAS, the Community Cost-Share Program funds are used for construction, operation, and maintenance of the Local Stormwater System or Regional Stormwater System, including administrative costs directly associated with such projects as well as costs related to repair or upgrade; and

WHEREAS, the District supports the Community Cost-Share South Canterbury Drive Culvert Repair project (the "Project") as a Community Cost-Share project proposed by the City; and

NOW THEREFORE, in consideration of the foregoing, the payment and the mutual promises contained in this Agreement, the parties agree as follows:

#### Article 1.0 City Obligations

- 1.1 The City agrees to perform as follows:
  - 1.1.1 Coordinate with the District to complete work as detailed in the District approved Community Cost-Share application. (Exhibit "C")
  - 1.1.2 Meet with District staff when requested to review the Project status.



- 1.1.3 Obtain all necessary legal agreements with affected property owners to perform the Project and to bind any successor in title to maintain compliance as specified in this Agreement between the District and the City for the Project.
- 1.1.4 Comply with all applicable local, state and federal requirements. This may include, but is not limited to, U.S. Army Corp of Engineers Section 404, Ohio EPA Section 401 water quality certification, and Ohio Department of Natural Resources Dam Safety Laws.
- 1.1.5 If the City fails to maintain the Project in accordance with this Agreement, the City shall be liable for the full amount of any Community Cost-Share Program funds paid for the Project. Such amount shall be offset against the City Community Cost-Share Account.
- 1.1.6 Submit requests for approval to modify the budget, deadline, deliverables, or other components of the Project to the City's Watershed Team Leader at least 30 business days prior to the desired date of execution of the modification.
- 1.1.7 Acknowledge the District on any public advertisement or outreach efforts including all publications and signage related to the Project which shall include the following disclaimer:

This project was funded in part or totally through the Northeast Ohio Regional Sewer District (NEORSD) Community Cost-Share Program in coordination with City, under the provisions of the NEORSD Regional Stormwater Management Program. The contents and views, including any opinions, findings, or conclusions or recommendations, contained in this publication are those of the authors and have not been subject to NEORSD review and may not necessarily reflect the views of NEORSD, and no official endorsement should be inferred.

- 1.1.8 Permit the District to photograph the Project and to incorporate the Project into the District's overall public education and outreach efforts for stormwater management.
- 1.2 Failure to meet any of the requirements listed in Article 1.1 may result in termination of this Agreement and reimbursement of disbursed funds to the District.

#### **Article 2.0 District's Obligations**

- 2.1 The District agrees to perform as follows:
  - 2.1.1. Perform the Project in accordance with Exhibit "C."

- 2.1.2. Allocate \$245,174.00 to the City for the Project from the City's Community Cost-Share Account.
- 2.1.3. Retain funds from the City's Community Cost-Share Account of up to \$245,174.00 for Project costs related to the District's performance of the Project.
- 2.1.4. Timely review and approval or disapproval of requests to modify the budget, deadline, deliverables, or other components of the Project.
- 2.1.5. Acknowledge the City in presentations or publications related to the Project.

#### **Article 3.0 Dispute Resolution**

- 3.01 The Parties shall continue the performance of their obligations under this Agreement notwithstanding the existence of a dispute.
- 3.02 The Parties shall first try to resolve the dispute at the level of the designated representatives as follows:

District Representative	City Representative
Watershed Team Leader	Jack Sparks - Public Works Coordinator

If the Parties are unable to resolve the dispute at that level within ten (10) working days, the Parties shall escalate the dispute to the following level to resolve the dispute:

District Representative	City Representative
Director of Watershed Programs	Brian Higgins, Service Director

- 3.03 If the Parties remain unable to resolve the dispute within an additional ten (10) working days, the Parties shall proceed to mediation upon request by either party. The mediator shall review all documents and written statements, in order to accurately and effectively resolve the dispute. The mediator shall call a meeting between the Parties within ten (10) working days after mediator appointment, which meeting shall be attended by at least the respective representatives listed in paragraph 3.02 above. The Parties shall attempt in good faith to resolve the dispute. The Parties agree to follow the Uniform Mediation Act, Chapter 2710 of the Ohio Revised Code. The Parties shall share the cost of the mediator equally.
- 3.04 Such mediation shall be non-binding between the Parties and, to the extent permitted by law, shall be kept confidential. If the dispute is resolved and settled through the mediation process, the decision will be implemented by a written agreement signed by both Parties.

If the dispute is unable to be resolved through mediation, the Parties agree to submit the dispute to the appropriate jurisdiction as per Article 4, Remedies, below.

#### Article 4 Remedies

4.01 The Parties agree that, after exhausting the dispute resolution process outlined above, all claims, counter-claims, disputes and other matters in question between the Parties arising out of or relating to this Agreement, or the breach thereof, will be decided at law. This Agreement shall be governed by and interpreted according to the laws of the State of Ohio.

#### Article 5 Counterpart Signatures

5.01 This Agreement may be executed in counterparts, each of which shall be deemed to be an original, but which counterparts when taken together shall constitute one Agreement.

#### Article 6 Governing Law

6.01 The terms and provisions of this Agreement shall be construed under and governed by the laws of Ohio (to which all Parties hereto consent to venue and jurisdiction).

#### **Article 7 Disclaimer of Joint Venture**

7.01 This Agreement is not intended to create a joint venture, partnership or agency relationship between the Parties, and such joint venture, partnership, or agency relationship is specifically hereby disclaimed.

#### **Article 8** Authority to Execute

8.01 Each person executing this Agreement represents and warrants that it is duly authorized to execute this Agreement by the party on whose behalf it is so executing.

#### Article 9 Exhibits

The following exhibits are attached hereto and incorporated herein:

Exhibit "A" – District Resolution

Exhibit "B" - City Ordinance/Resolution

Exhibit "C" - District-Approved Community Cost Share Application

The parties have executed this Agreement on the day and year first above written.

#### NORTHEAST OHIO REGIONAL SEWER DISTRICT

	BY:	
		Kyle Dreyfuss-Wells Chief Executive Officer
		Chief Executive Officer
	AND	
	BY:	
		Darnell Brown, President Board of Trustees
		CITY OF PARMA
	Ву:	
	Title:	
The Legal Form and Correctness of this Instrument is hereby Approved:		
CITY OF PARMA		
Assistant/Director of Law	-	
This Instrument Prepared By:		

Assistant General Counsel
Northeast Ohio Regional Sewer District

Each party agrees that this Agreement may be executed and distributed for signatures via e

Katarina K. Waag

Each party agrees that this Agreement may be executed and distributed for signatures via email, and that the emailed signatures affixed by both parties to this Agreement shall have the same legal effect as if such signatures were in their originally written format.

# [FOR DISTRICT USE] CONTRACT NO.

Date

NORTHEAST OHIO REGIONAL SEWER DISTRICT	CERTIFICATION
WITH	It is hereby certified that the amount required to meet the contract, agreement, obligation, payments
CITY OF PARMA	or expenditure, for the above, has been lawfully
FOR  COMMUNITY COST-SHARE PROJECT: SOUTH CANTERBURY DRIVE CULVERT REPAIR	appropriated or authorized or directed for such purpose and is in the Treasury or in process of collection to the credit of the fund free from any obligation or certification now outstanding.
Total Approximate Cost: \$245,174.00	CHIEF FINANCIAL OFFICER
The legal form and correctness of the within instrument are hereby approved.	Date
CHIEF LEGAL OFFICER	

## **EXHIBIT A**

#### NORTHEAST OHIO REGIONAL SEWER DISTRICT RESOLUTION NO. 114-13

Authorizing the Executive Director to enter into Regional Stormwater Management Program Community Cost-Share Program Agreements with Member Communities.

WHEREAS, the Code of Regulations of the Northeast Ohio Regional Sewer District, Title V — Stormwater Management Code Chapter 9 outlines the Community Cost-Share Program developed to provide funds to District Member Communities for construction, operation and maintenance activities of community-specific stormwater management projects; and

WHEREAS, under the Community Cost-Share Program, 25% of the annual collected stormwater revenue from each Member Community will be held by the District in a Community Cost-Share account, whereby Communities, with review and approval by the District, through specific applications outlining the community-specific stormwater work to be performed can access reimbursement of their funds; and

WHEREAS, the District is seeking authority to enter into Regional Stormwater Management Program Community Cost-Share Program Agreements with Member Communities for the purpose of detailing and memorializing responsibilities of the District and Member Communities under specific applications to the Community Cost-Share Program;

NOW, THEREFORE, BE IT RESOLVED BY THE BOARD OF TRUSTEES OF THE NORTHEAST OHIO REGIONAL SEWER DISTRICT:

Section 1. That this Board finds that for the reasons stated in the preamble hereof it is in the best interests of the District to enter into Regional Stormwater Management Program Cost-Share Program Agreements with Member Communities to memorialize responsibilities of the District and Member Communities under specific applications to the Community Cost-Share Program.

Section 2. That this Board hereby authorizes the Executive Director to enter into Regional Stormwater Management Program Cost-Share Agreements with Member Communities to memorialize responsibilities of the District and Member Communities under specific applications to the Community Cost-Share Program under such terms and conditions that are satisfactory to the Director of Law and in the best interests of the District.

Section 3. That this Board authorizes the Executive Director to execute all documents and do all things necessary to effect the terms and conditions of the Stormwater Management Program Direct Billing Agreements with Member Communities.

Section 4. That this Board declares that all formal actions of the Board concerning and relating to the adoption of this resolution and that all deliberations of the Board and any of its committees that resulted in said formal action were conducted in meetings open to the public and in compliance with all legal requirements, including Section 121.22 of the Ohio Revised Code.

On motion of Mayor Starr seconded by Mr. O'Malley, the foregoing resolution was unanimously adopted on May 16, 2013.

Sheila J. Kelly, Secretary

Board of Trustees

Northeast Ohio Regional Sewer District

### **EXHIBIT B**

Intentionally left blank until Ordinance No. L-124-18 is adopted.

# EXHIBIT C



### Community Cost-Share Program APPLICATION

Member Communit	ty Information	
Community:		City of Parma
Primary Project Conta	14.55.55.55.15 1ct:	Brian Higgins
(Name & Title)		Service Director
Mailing Address:		6611 Ridge Road
		Parma, Ohio 44129
Phone Number:		440-885-8191
Email:		bhiggins@cityofparma-oh.gov
<b>Project Information</b>		
Project Title:	See See Line of the Control of the C	South Canterbury Culvert Repair/Repl.
Address or Location o	f Project:	Culvert that carries South Canterbury
		traffic over the Chestnut Creek
Project Start Date:		October, 2018
Project End Date:		December, 2018
Community Cost-Shar	e Fund Request:	\$245,174
Submission Date:	. • P.	June 18, 2018
		3438 <del></del>



#### **Project Narrative**

#### 1) Project Summary (1,000 word maximum)

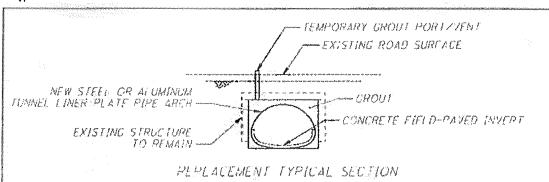
Describe the Project and include the following information, as applicable:

- Describe the Project and deliverables; provide a map if applicable
- Submit a deliverable worksheet listing tasks and deliverables with start dates and end dates for the significant benchmarks.
- List permitting requirements necessary to initiate and complete project and how the requirements will be met.

This project is being proposed to do work to bring the existing culvert which transports Chestnut Creek through it, under the traveled lanes of South Canterbury. Much of the slab below the traveled lanes has advanced deterioration that needs to be addressed to extend the useful life and allow the normal load rating to not have to be reduced.

The bridge as it exists is more than adequately sized and of the alternatives available, the best one for cost, longevity and virtually no disruption to the traffic and residents in the area is to use a segmental, boited structural pipe arch tunnel liner section that meets the existing hydraulic capacity.

#### See typical below:



#### MAP OF AREA OF INTENDED WORK





- 2) Ability to Provide Long Term Maintenance (500 word maximum)

  Describe the plans for long-term maintenance, addressing the following question:
  - Who is responsible to provide on-going maintenance for the project and how will maintenance be ensured?
  - Provide documentation of scheduled maintenance and operation for completed stormwater project(s).

The City will be responsible to schedule inspection and subsequent maintenance as needed. At least annually but more if needed, drainage structures will be inspected with the Sewer Department's Sewer Supervisor being responsible to keep charts and/or maps of these inspections and condition reports. In addition, Service Department workers can supplement these reports with any drainage work item needing attention, cleaning or repairs while they are out performing their regular duties and notice items of concern which they can pass on to the Supervisor for future work scheduling assignments. The inspection and maintenance duties will be compiled into the annual report which is sent to the Ohio EPA to meet the MS4 requirements.



- Visibility and Public Outreach: (500 word maximum)
   Public outreach is required if appropriate for your project.
  - What audiences will be exposed to this Project (neighbors, students, community groups, general public)?

The City will make available on its website an area for upcoming, scheduled work where the public will become aware of our efforts in improving the ability of our storm water system to collect and transfer storm water by keeping and improving our existing infrastructure in a fully functioning condition. A map with the surrounding addresses and work locations on South Canterbury Road where work will be performed will be updated on an as needed basis. Included will be a person as a point of contact with a phone number and email address so residents and any interested party can get updates on the progression of the work, will also be linked on the City's website



4) Budget Summary (500 words maximum)

The Budget Summary and Project Budget (see page 3) represent the Community Cost-Share Project components exclusively. Include details on the provider of all services such as design, engineering, construction management and materials including specific material cost, equipment, and hourly rate.

If an engineer's estimate is included with the application, indicate which line items are included in the Community Cost-Share Project application.

See attached Construction Cost Estimate as well as the County Inspection Report from 2017 listing the condition as "2-A, Critical".

Also attached is the Bridge Load Rating Summary Report with the Load Reduction Recommendations.



#### **Vendor Registration**

Prior to submission, ensure that the Member Community is a registered vendor with the District. Vendor Registration can be done by accessing <a href="http://www.neorsd.org/isupplier\_homepage.php">http://www.neorsd.org/isupplier\_homepage.php</a> and completing the New Vendor Registration. If unsure of the Member Community vendor status, by initiating the New Vendor Registration a message of active registration will appear if currently registered as a vendor.

#### **Project Budget**

Project Expenses	Community Cost- Share Expense	Line Item Description
Professional Services	\$60,174	Engineering Cost Estimate incl Design Contingency
Personnel (Member Community stoff only)		
Subcontract	A STATE OF THE STA	
Equipment		7
Materials		
Other	\$185,000	Construction Cost Estimate - See Attached
TOTAL	\$ 245,174	Total Cost Estimate

#### CUY-SCANT-0640

#### S. Canterbury Road Bridge over Chestnut Hills Creek

#### **Preliminary Construction Cost Estimates**

	ALTERNATIVE A - REHABILITATION		**************************************	i da Nisa Nije dijekt	. szálvev
ITEM	DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
202	PORTIONS OF STRUCTURE REMOVED	1	LS	\$ 20,000	\$ 20,000
202	ASBESTOS REMOVED, DISPOSED	800	SQ FT	\$ 27	\$ 21,600
442	ASPHALT CONCRETE PAVEMENT	100	SQ YO	\$ 200	\$ 20,000
452	NON-REINFORCED CONCRETE PAVEMENT	45	SQ YO	\$ 75	\$ 3.375
503	UNCLASSIFIED EXCAVATION	100	CUYD	\$ 50	\$ 5,000
511	CLASS QC2 CONCRETE, SUPERSTRUCTURE	60	CUYD	\$ 775	\$ 46.500
512	TYPE B WATERPROOFING	135	SQ YD	\$ 50	\$ 6,750
609	CONCRETE CURB	60	FT	\$ 25	\$ 1,500
611	MANHOLE RECONSTRUCTED TO GRADE	1	EA	\$ 5,000	\$ 5,000
614	MAINTENANCE OF TRAFFIC	1	LS	\$ 5,000	\$ 5,000
624	MOBILIZATION	1 1 1 1 1 1 1 1	LS	\$ 10,000	\$ 10,000
		TOTAL			\$ 144,725
		CONTINGENCY	20%		\$ 173,670

	ALTERNATIVE B - REPLACEMENT				
ITEM	DESCRIPTION	QUANTITY	זואט	UNIT COST	TOTAL
202	PORTIONS OF STRUCTURE REMOVED	412 Table 1 15 11 15 15 15 15 15 15 15 15 15 15 1	LS	\$ 10,000	\$ 10,000
452	NON-REINFORCED CONCRETE PAVEMENT	45	SQ YD	\$ 75	\$ 3,375
611	STRUCTURAL PLATE CORRUGATED STEEL PIPE ARCH	80	FT	\$ 1,200	\$ 96,000
611.	FIELD PAVING OF PIPE	80	FT	\$ 250	\$ 20,000
611	MANHOLE RECONSTRUCTED TO GRADE	1	EA	\$ 5,000	\$ 5,000
613	LOW STRENGTH MORTAR BACKFILL	100	CUYD	\$ 105	\$ 10,500
614	MOBILIZATION	1	LS	\$ 10,000	\$ 10,000
		TOTAL.			\$ 154,875
- 4		CONTINGENCY	20%		\$ 185,850



### CUYAHOGA COUNTY DEPARTMENT OF PUBLIC WORKS

#### BRIDGE Inspection/Maintenance DEPARTMENT

#### Municipality Bridge Information Sheet

September 27, 2017

Structure: South Canterbury C-0064

Feature Over: Chestnut Hills Creek

Municipality: Parma SFN: 1879006 Year Built: 1957

Location: 200 Ft. south of White Haven

Structure Type: Concrete Box Culvert

Skew: Unknown

General Appraisal and Operational Status: 2A - Critical Condition

#### Culverts:

- " General: Ceiling: Scattered leach stained cracks with hanging stalactites. Some of the cracks extend into both sidewalls. 190 SF total of scattered spalls/DELAMS (165 SF (~40%) under roadway; 25 SF under shoulders). Spalls expose corroded primary REINF. 80 SF spall/DELAM along START wall (~8 LF long) that extends from sidewall to sidewall at LEFT curb exposes 16 consecutive corroded REINF (8 debonded; Measured average x-section = 0.581"). 55 SF spall/DELAM (12 LF long) at RIGHT curb exposes 21 consecutive corroded REINF (8 debonded at LEFT end of spall; Measured average x-section = 0.274" 0.373"). Debonded bars visibly sag. Last RIGHT exposed REINF (at CJ) is debonded (sags but is highly tensed) with 0.178" measured average x-section. Spalls in ceiling under roadway are along ~24 LF (~60%) of START wall.
- Sidewalls: Both Scattered vertical cracks that extend into ceiling. Sidewalls are honeycombed up to 2-1/2' high along the floor, START: Entire length: FINISH: -50% of length, FINISH: Junction between ceiling and sidewalls leaks/stained for -8 LF near RIGHT end.

#### Approaches:

Wearing Surface: Numerous transverse/longitudinal cracks (most seafed). -2' wide map cracking along RIGHT curb. 3 SF asphalt patched spall in 16 SF map cracked slightly settled area (1/2"-3/4") -12 LF from RIGHT curb (appears to be over 53 SF spall on bottom of culvert ceiling - corresponds to debonded REINF).

#### Maintenance Recommendations:

Load rate culvert:

### STATE OF OHIO DEPARTMENT OF TRANSPORTATION BRIDGE INSPECTION FIELD REPORT

Structure File Number: 1879006 Inventory Bridge	ge Number: CUY SCANT 00,640 Bridge Type: 1 - CONCRETE/9 - CULVERT/5 - FILLED
Sufficiency Rating: 73 0	Date Built, 7/1/1957
District 12 Place Code (FIPS) PARMA	SOUTH CANTERBURYRD over CHESTNUT HILLS Type of Service on HIGHWAY-PEDESTRIAN
APPROACH ITEMS	SUBSTRUCTURE ITEMS
c1. Approach Wearing Surface (EA) 2	Z c33 Abulment Walls (LF)
c2. Approach Slabs (SF)	c34. Abulment Caps (LF)
c3. Relief Joint (LF)	c35. Abut. Columns/Bents (EA)
c4. Embankment (EA) d 4	1 c36. Pler Walls (LF)
c5. Guardrall (EA)	c37. Pier Caps (LF)
는 이 사는 경기를 발표하는 것 	c38. Pler Columns/Bents (EA)
	1 1 c39. Backwalls (LF)
c6. Approach Summary	6 c40. Wingwalls (EA)
DECK ITEMS	ca2. Scour (EA) d
there were wasted and green there	TR c43. Slope Protection (EA) d
c7.1 Floor/Stab (SF)	N Distriction of the second of
c7.2 Edge of Floor/Slab (LF)	DIALERY ITTEC
c8. Wearing Surface (SF) c9. Curb/Sidewalk/Walkway (LF)	CULVERT ITEMS OTY. 1 1 2 2 3 1 1 1 R
c10. Median (LF)	c44. General (LF) 12 4
ct1. Railing (LF)	c45. Alignment (LF) d 12
	c46. Shape (LF) d
c12. Orainage (EA) d	c47. Seams (LF) d 00
c13. Expansion Joint (LF) d 00	c48. Headwall/Endwall (LF)
	C49. Scour (LF) d 2
	C50. Abutments (LF)
SUPERSTRUCTURE ITEMS	
c14. Alignment (EA) d	CHANNEL ITEMS
c15.1 Beams/Girders (LF)	Control of the Contro
c15.2 Slab (SF)	
c16. Diaphragm/X-Frames (EA)	c52, Protection (LF) d
c17. Stringers (LF)	c53. Hydraulic Opening (EA) d ! ! ! !
c18. Floorbeams (LF)	7
c19. Truss Verticals (EA)	
c20. Truss Diagonals (EA)	SIGN/UTILITY ITEMS
c21. Truss Upper Chord (EA)	c55. Signs (EA) d
c22. Truss Lower Chord (EA)	c58, Sign Supports (EA) d
c23 Truss Gusset Plate (EA) d	c57. Utililes (LF) d
c24. Lateral Bracing (EA)	2 10 (1) (1) (1) (1) (1) (1) (1) (1) (1) (1)
c25, Sway Bracing (EA)	
c26. Bearing Devices (EA) d	Tuberatu Inflati
c27. Arch (LF)	Inspection Name Dobransky, Jeffrey Inspection Date/Type 69/13/2017 Routine
c28. Arch Column/Hanger (EA)	Inspection Date/Type 09/13/2017 Routine PE Number
c29 Arch Spandrel Walls (LF)	Reviewer Name Hazimihalis James
c30 Prot. Coating System (LF) d	Review Date 10/06/2017
c31 Pins/Hangers/Hinges (EA) d	PE Number
c32. Fatigue (LF) d	

Page

Inspection Date: 09/13/2017

Reviewed Date: 10/06/2017



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

	OHIO DEPAR	RTMENT OF TRANS	5PORTATION			
SFN	BRIDGE NUMBER		DISTRICT			
1879006	CUY SCA	NT 00640	12			
ORIGINAL CONSTRUCTION YEAR	REHABILITATION YEAR	OVERALL STRUCTURE LENGTH	FEATURE INTERSECTED			
1957		11th	Chestnut Hills Creek			
SPECIAL ASSUMPTIONS & COMMENTS	Drawing SB-1-47 rev. 194 section loss applied to pri Assumed 1'-0" soil fill plufrom ODOT BDM based or structure.	8. Rating conservatively reflect mary reinforcement for the fit is 11-0° roadway (asphalt) carrin inventoried construction year.	nts and supplemented with ODOT archived Standard ts Nov. 2017 field conditions with approximately 50% rst quarter of the span, with 10% loss at the midspan. ed by the structure. Material properties and unit weights ar of 1957. Does not meet criteria for an EV-Qualified			
	PLEASE SELECT C		ATE, BY USING THE DROP DOWN ARROW BUTTON			
LOAD RATING PURPOSE:		1 - Initia	! Load Rating			
LOAD RATING SOFTWARE:		3 - AASHTO BrR (VIRTIS)				
RATING SOURCE:		2 - Field measured information for load rating analysis				
RATING METHOD:		6 - Load Factor (LF) rating reported by rating factor (HF)				
ORIGINAL DESIGN LOADING:	6 - H520-44 & Alternate Military Loading					

#### STRUCTURE RATING SUMMARY

	OHIO LE	GAL VEHICLES		DESH	on vericle	
oading Type	GVW (Tons)	Operating Rating RF	Legal Weight (Toos)	Loading Type	Design Ra Operating	nting - RF Inventory
2F1	15	1.025	23.04	HS2D Loading	0.641	0.384
3F1	23	0.826	19.00			
4F1	27	1.001	27.00	Overell Legal Posting Rating		4,
5C1	40	0.826	33.64	(Does not Indude EV:s)	3.2	71
SP	ECIALIZED HA	ULING VEHICLES (SH	V)	BRIDGEPOSTING	I OAD POSTING IS	BECONANICATOR!
5U4	27	0.825	22.28	RECOMMENDED BY RATING	LOAD POSTING IS RECOMMENDE	
SU5	31	0.825	25.58		Weight	LIMIT 1
SU6	34.75	0.825	28.67		SINGLE	
SU7	38.75	0.825	31.97		2 AXLE	15 T
EMERGE	NCV VEHICLES	(EV) - Check box to fi	ndude EV 🔲	Sign Posting	3 AXLE	19 T
EA5	28.75	0.612	17.60	Recommendation:	4 AXLE	22 F
EV3	43	0.453	19.48		5 AXLE	76 T
	and the second				ó- AXIE	29 J minimum programs
250		****			Lette	30.7.1

AGENCY/FIRM/OFFICE	KS ASSOCIATES		REPORT DATE:	11/28/2017
RATED BY	PE NUMBER	PHONE NUMBER		EMAIL .
Robert Pfingsten	B1877	440-365-4730 x361	Secretary and	SYSTEMPED !
REVIEWED BY	PE NUMBER	PHONE NUMBER		MAIROBERT O
Michael Malloy	60048	440-365-4730 x397	3.3	OUNIFERNAL :

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