Project Scope	PID	107714	Proje Nar			
Project Overview						
Scope Project Mgr.	٨	Aark Strohm		Init	tial Scope Meeting Date	7/19/2022
Design Project Mgr.	Karla R Bohmer				Scope Version	First Revision
In-House Designer	Design	-Build Consultan	t			
Environmental Mgr.	Le	evi B Wingler				
Letting Type		ODOT Let			File Date	2/19/2024
Design Responsibility	Со	nsultant Not Yet	Selected		Federal Aid Number	E200155
Primary Work Cat.		Roadway Major	Rehab		PDP Path	Path 3
Existing See Narrative	for ovict	ing plans				

Existing See Narrative for existing plans Plans

Design Build - Major Rehab with Complete Pavement Replacement and Lane Addition to convert from a 4 lane facility to a 6 lane facility. See narrative for schedule of 2-step Technically Responsive Low-Bid ATC Process.

OTP Booth to IR 90 will remain a 4 Lane facility.

12.042 (IR 90 / SR 2 split) to 13.17 (west of SR57) / 13.57 (east of SR57) to 18. 61 (French Creek Bridge) will be made 6 lane facility. No widening to occur between 10.76 (OTP booth) to 12.042 (IR 90 / SR 2 split)

Resurfacing from slm 13.17 to 13.57.

C

Pavement Replacement on SR 2 from Murray Ridge Rd bridge to IR 90. Depending on the final design of the IR 90 / SR 2 interchange, widening may need to occur.

Bridge Maintenance

Project Description

Need

Purpose &

Logical termini and project limits for this project were selected based on pavement condition. This project is a result of this ongoing pavement rating. This project was selected as a Major Rehabilitation of the Pavement and is C.O. funded to replace the pavement per the project limits in the project description. This project will replace 7.45 miles of IR 90 in Lorain County and resurface 0.40 miles. This project will also replace approximately 0.52 miles of SR 2 from Murray Ridge Rd bridge to IR 90.

Widening to make 3 lanes in each direction is being done in order to alleviate congestion along this corridor. A traffic study indicated that the peak hour capacity warrants a third lane to be built in each direction and that the third lane in each direction will reduce congestion at peak times.

hock	with	Charlie	about	signs	to	ho	replaced	(replace	all2)
SHEEK	TTUT	Chartie	about	515115		DC	reptaced	Teptace	<del>u,</del>

Complete?

-	t Scope	PID 107714	Project LOR IR 0090 10.76
Lighting			1.2.C.G
1	CR LOR-IR90-(10		Description Turnpike Plaza Approach: No Work SR 2 Interchange: Replace existing partial interchange lighting with complete interchange lighting. At the SR 2 split, relocate the existing power service away from the private resident drive. Have both the power service and LCC easily accessible for maintenance. Look for flatter foreslopes and the ability for maintenance to park next to the LCC not near guardrail. If located along I-90, ensure power service and LCC is at least 30' away from the EOP.
2	LOR-IR90-(13	.171-13.57)	SR 57 Interchange: Complete interchange lighting present (installed 2016). Work may be required for the median towers east of SR 57 to accommodate earthwork for widened pavement.
3	LOR-IR90-(13	.57-18.611)	SR 254 Interchange: Install complete interchange lighting.
4			Provide LED luminaires. 120/240 Volt circuits. 3 conductors (Line-Line) w/ ground. 2400volt cable. Voltage drop permitting, use #6 AWG duct cable/distribution cable.
5			Ground mounted Lighting Control Center w/ concrete work pad. If the LCC is behind a ditch, provide a 10' conduit in the ditch to allow the maintenance to traverse. Provide minimum 15' clearance w/ overhead electric lines.
6	ALL LOC	ATIONS	Offset conventional poles 8' from the edge of the paved shoulder. Conventional luminaires should be located 3'-5' outside of the edge of pavement for the ease of maintenance, not having to take a lane to maintain.
7			Do not locate pole foundations in the ditch. Do not locate high mast Lighting near residential areas. Per TEM Table 1197-12, if lighting is placed along the SR within the Incorporated Municipality, they are responsible for the maintenance and electric costs. So, if Sheffield is incorporated, separate the circuits along I-90 (ODOT) and SR
8			<ul><li>254 (Sheffield).</li><li>Provide 24" pull boxes for more than 2 entrances into the PB.</li><li>Provide a pullbox in between long circuit runs, 490' max spacing.</li><li>For directional bores under the roadway, Provide a PB At both sides.</li></ul>
9			

Project Scope	PID	107714	- Name					
Bridge							, 2.7.F.A-C, 3.3.I.A-B,	
- Bridge Location	LOF	R-IR-90-11.530	DR		Pre	iminary Cost Esti	mate \$1,400,	000.00
Types		re Sealing, N					ement, NA: 342 - ent Repair, NA: 1	
Existing Bridge Information			NA	: 300	- Abu	tment Repair		
				Со	mmei	nt	Curb Present	No
Alignment	Use Ex	xisting	I	Design	er to	verify	Cut Trees	Yes
Profile	Use Ex	xisting	I	Design	er to	verify	R/W Req'd	No
Floodplain Coord.	Sele	ect	Survey Req					Yes
OHWM Determ.	N.	/A	Soil Borings Req'd					
MOT Type	Bar	rier	Utility Relocation Req'd					
						Hydraul	ic Analysis Req'd	No
	Exis	ting				Structure 1	Гуре Study Req'd	No
General Appraisal*	-	7				Driveway Acco	modations Req'd	No
Sufficiency Rating	09	1.7				Addendum She	eet for Structure	Yes
Year Built	19	74			Elig	ible for National	Historic Register	No
Structure Type*	Steel c	ontinuous/St	ringer/Mu	lti-bea	am or	Girder Pr	oposed	
Structure File No.*		4704371			$\rightarrow$			
Feature Intersected	OVE	R LOR-54-051	4 TH-54		$\rightarrow$		Same	
Design Loading	HS20-	44 & Alt. Mili	itary Load		$\rightarrow$	New - per E	3DM + 60 psf FWS	
Number of Spans		3			$\rightarrow$		Same	
Out↔Out Width*		42		•	ft →	4	43'-10"	ft
Bridge Railing Type	32" D	efl Type Para (	NJ Shape)		$\rightarrow$	42" Single	e Slope Barrier	
Curb↔Curb Width		40.5			ft →		Same	ft
Overall Length		122			ft →		Same	ft
Approach Slab Len		0			ft		25 feet	
Vertical Clearance				•	ft →	No lower t	han exist (14'-7")	ft
Horiz. Clearance					ft →		Same	ft
Wearing Surf Type		Polyester	•		$\rightarrow$	Monolit	hic Concrete	
Wearing Surf Thick		4		i	in →		1	in

Deck replacement with substructure repairs. See separate written scope for detailed information. Clear and grub vegetation at bridge.

Project Scop	e pid	107714	07714 Project LOR IR 0090 10.76				
⊲ Bridge Location	LOR	-IR-90-11.530	L	Pre	liminary Cost Esti	mate \$1,500,0	00.00
Treatment Types	Repair NA					e Sealing, NA: 320 bent, NA: 700 - Pro	
Existing Bridge Information			NA: 135	- Dec	k Replacement		
			C	omme	nt	Curb Present	No
Alignment	Use Ex	cisting	Desig	ner to	verify	Cut Trees	Yes
Profile	Use Ex	cisting	Desig	ner to	verify	R/W Req'd	No
Floodplain Coord.	Sele	ct				Survey Req'd	Yes
OHWM Determ.	N	Ά		oil Borings Req'd	No		
MOT Type	Bar	rier	Utility Relocation Req'd				
	Hydraulic Analysis Req'o					lic Analysis Req'd	No
	Exis	ting			Structure	Type Study Req'd	No
General Appraisal*	7	7			Driveway Acco	modations Req'd	No
Sufficiency Rating	09	5.6			Addendum Sh	eet for Structure	Yes
Year Built	19	74		Elig	gible for National	Historic Register	No
Structure Type*	Steel c	ontinuous/Str	inger/Multi-b	eam o	r Girder Pr	roposed	
Structure File No.*		4704398		$\rightarrow$			
Feature Intersected	OVE	R LOR-54-051	4 TH-54	$\rightarrow$		Same	
Design Loading	HS20-	44 & Alt. Mili	ary Load	$\rightarrow$	New - per l	3DM + 60 psf FWS	
Number of Spans		3		$\rightarrow$		Same	
Out↔Out Width*		44		ft →		43'-10"	ft
Bridge Railing Type	32" De	fl Type Para (	NJ Shape)	$\rightarrow$	42" Singl	e Slope Barrier	
Curb↔Curb Width		40		ft →		Same	ft
Overall Length		129		ft →		Same	ft
Approach Slab Len		0		ft		25 feet	
Vertical Clearance				ft →	No lower t	han exist (14'-7")	ft
Horiz. Clearance				ft →		Same	ft
Wearing Surf Type		Polyester		$\rightarrow$	Monolit	hic Concrete	
Wearing Surf Thick		4		in →		1	in

Deck replacement with substructure repairs. See separate written scope for detailed information. Clear and grub vegetation at bridge.

Project Scope	е <sub>РІД</sub> 1077	14 Project Name	LOR IR	0090 10.76	
• Bridge Location	LOR-IR-90-11.	730	Preliminary Cost Est	imate \$0.	00
Treatment Types	No Work				
Existing Bridge Information					
		Cor	nment	Curb Present	Y/N
Alignment	Select			Cut Trees	Y/N
Profile	Select			R/W Req'd	Y/N
Floodplain Coord.	Select			Survey Req'd	Y/N
OHWM Determ.	Select		9	Soil Borings Req'd	Y/N
MOT Type	Select		Utility	Relocation Req'd	Y/N
			Hydrau	lic Analysis Req'd	Y/N
	Existing		Structure	Type Study Req'd	Y/N
General Appraisal*	9		Driveway Acco	omodations Req'd	Y/N
Sufficiency Rating	096.3		Addendum Sh	eet for Structure	Y/N
Year Built	1974		Eligible for National	Historic Register	Y/N
Structure Type*	Steel continuous/	Stringer/Multi-bea	m or Girder P	roposed	
Structure File No.*	47044	01	$\rightarrow$		
Feature Intersected	OVER LOR-00	)2-1169R	$\rightarrow$		
Design Loading	HL93	3	$\rightarrow$		
Number of Spans	3		→		
Out↔Out Width*	44	f	t→		ft
Bridge Railing Type	36" Defl Type Par	ra (NJ Shape)	$\rightarrow$		
Curb↔Curb Width	41	f	t→		ft
Overall Length	227	f	t→		ft
Approach Slab Len	30	f	ťt		
Vertical Clearance		f	t→		ft
Horiz. Clearance		f	t→		ft
Wearing Surf Type	Super Plas	ticized	→		
Wearing Surf Thick	1	i	n →		in

Project Scope	PID 1	07714	Projec Name		LOR IR	0090 10.76	
• Bridge Location	LOR-IR-9	0-12.400L		Pre	liminary Cost Esti	mate \$69,00	00.00
و تو	NA: 912 - Railin	g Repair, NA	A: 140 - De	ck Sea	ling - Gravity Fec	l Resin	
Existing Bridge Information							
			C	omme	nt	Curb Present	No
Alignment	Use Existing	g				Cut Trees	Yes
Profile	Use Existing	g				R/W Req'd	No
Floodplain Coord.	Select					Survey Req'd	No
OHWM Determ.	N/A				S	oil Borings Req'd	no
MOT Type	Barrier				Utility	Relocation Req'd	No
					Hydraul	lic Analysis Req'd	No
	Existing				Structure	Type Study Req'd	no
General Appraisal*	9				Driveway Acco	modations Req'd	No
Sufficiency Rating	090.9				Addendum Sh	eet for Structure	Yes
Year Built	1967			Elig	ible for National	Historic Register	No
Structure Type*	Steel contin	uous/Stringe	er/Multi-b	eam or	Girder Pr	roposed	
Structure File No.*	4	704355		$\rightarrow$			
Feature Intersected	OVER LA	KE AVE CH-2	204	$\rightarrow$		Same	
Design Loading	HS25	or greater		$\rightarrow$		Same	
Number of Spans		3		$\rightarrow$		Same	
Out↔Out Width*		63		ft →		Same	ft
Bridge Railing Type	42" Defl Type	Para (Single	e Slope)	$\rightarrow$		Same	
Curb↔Curb Width		60		ft →		Same	ft
Overall Length		166.6		ft →		Same	ft
Approach Slab Len		25		ft		Same	
Vertical Clearance				ft →		Same	ft
Horiz. Clearance				ft →		Same	ft
Wearing Surf Type	Super	<sup>-</sup> Plasticized		$\rightarrow$		Same	
Wearing Surf Thick		1		in →		Same	in

Remove existing coatings and re-seal inside and top face of concrete parapets with epoxy-

Seal bridge deck and app slab with GFR. Remove existing coatings and re-seal insidure thane (App slabs parapets also) Repair the horizontally cracked tops of purethane. Clear and grub vegetation at bridge. All BTAs Type 1 except inside trailing end Repair the horizontally cracked tops of parapets. Seal repaired areas with epoxy-

All BTAs Type 1 except inside trailing end has "T-Type" hole pattern drilled in for Type 2

Project Scope	PID	107714		oject Name		LOR IR 0090 10.76				
Bridge Location	LOR-	IR-90-12.410R			Pre	iminary Cost Est	imate	\$60,50	0.00	
Treatment Types	NA: 912 - Ro	ailing Repair, N	IA: 140	- Decl	sea	ling - Gravity Fee	d Resin			
Existing Bridge Information										
				Со	nme	nt	Curb P	resent	No	
Alignment	Use Exi	sting					Cut	Trees	Yes	
Profile	Use Exi	sting					R/W	/ Req'd	No	
Floodplain Coord.	Selec	:t					Survey	Req'd	No	
OHWM Determ.	N//	4				9	Soil Borings	Req'd	no	
MOT Type	Barri	ier				Utility	Relocation	Req'd	No	
						Hydrau	lic Analysis	Req'd	No	
	Exist	ing				Structure	Type Study	Req'd	no	
General Appraisal*	9					Driveway Acco	omodations	Req'd	No	
Sufficiency Rating	090.	.9				Addendum Sh	eet for Str	ucture	Yes	
Year Built	196	7			Elig	ible for National	Historic Re	egister	No	
Structure Type*	Steel co	ntinuous/Strin	ger/Mul	ti-bea	m or	Girder P	roposed			
Structure File No.*		4704444			$\rightarrow$					
Feature Intersected	OVE	R LAKE AVE CH	-204		$\rightarrow$		Same			
Design Loading		HS25 or greate	r		$\rightarrow$		Same			
Number of Spans		3			$\rightarrow$		Same			
Out↔Out Width*		63		f	t→		Same		ft	
Bridge Railing Type	42" Defl	Type Para (Sing	gle Slope	e)	$\rightarrow$		Same			
Curb↔Curb Width		60		f	t→		Same		ft	
Overall Length		163		f	t→		Same		ft	
Approach Slab Len		25		1	ťt		Same			
Vertical Clearance				f	t→		Same		ft	
Horiz. Clearance				f	t→		Same		ft	
Wearing Surf Type	S	uper Plasticize	d		$\rightarrow$		Same			
Wearing Surf Thick		1		i	n →		Same		in	

Remove existing coatings and re-seal inside and top face of concrete parapets with epoxy-

Seal bridge deck and app slab with GFR. Remove existing coatings and re-seal insidure thane (App slabs parapets also) Repair the horizontally cracked tops of purethane. Clear and grub vegetation at bridge. All BTAs Type 1 except inside trailing end Repair the horizontally cracked tops of parapets. Seal reapired areas with epoxy-

All BTAs Type 1 except inside trailing end has "T-Type" hole pattern drilled in for Type 2

Project Scope	PID 1077	11	oject Name					
• Bridge Location	LOR-IR-90-12	.530L	Pro	eliminary Cost Est	imate \$51,00	00.00		
Treatment Types	NA: 912 - Railing Rej	oair, NA: 140 ·	- Deck Se	aling - Gravity Feo	d Resin			
Existing Bridge Information								
			Comm	ent	Curb Present	No		
Alignment	Use Existing				Cut Trees	Yes		
Profile	Use Existing				R/W Req'd	No		
Floodplain Coord.	Select				Survey Req'd	No		
OHWM Determ.	N/A			9	Soil Borings Req'd	no		
MOT Type	Barrier			Utility	Relocation Req'd	No		
				Hydrau	lic Analysis Req'd	No		
	Existing			Structure	Type Study Req'd	no		
General Appraisal*	9			Driveway Acco	omodations Req'd	No		
Sufficiency Rating	087.7			Addendum Sh	eet for Structure	Yes		
Year Built	2009		Eli	gible for National	Historic Register	No		
Structure Type*	Steel continuous	/Stringer/Mul	ti-beam o	r Girder P	roposed			
Structure File No.*	47044	487	$\rightarrow$					
Feature Intersected	OVER C	SX RR	$\rightarrow$		Same			
Design Loading	HS25 or g	greater	$\rightarrow$		Same			
Number of Spans	3		$\rightarrow$		Same			
Out↔Out Width*	63		ft →		Same	ft		
Bridge Railing Type	42" Defl Type Par	a (Single Slope	e) →		Same			
Curb↔Curb Width	60	l.	ft →		Same	ft		
Overall Length	14	5	ft →		Same	ft		
Approach Slab Len	25		ft		Same			
Vertical Clearance			ft →		Same	ft		
Horiz. Clearance			ft →		Same	ft		
Wearing Surf Type	Super Pla	sticized	→		Same			
Wearing Surf Thick	1		in →		Same	in		

Remove existing coatings and re-seal inside and top face of concrete parapets with epoxy-

 Seal bridge deck and app slab with GFR.
 Remove existing coatings and re-seal insi urethane (App slabs parapets also)
 Repair the horizontally cracked tops of p urethane.
 Clear and grub vegetation at bridge.
 All BTAs are Type 1 or continuous concre Repair the horizontally cracked tops of parapets. Seal reapired areas with epoxy-

All BTAs are Type 1 or continuous concrete parapet wall

Project Scope	PID	107714		oject Iame	LOR IR 0090 10.76				
► Bridge Location	LOR-II	R-90-12.530R			Prel	iminary Cost Est	imate	\$51,00	0.00
Treatment Types	NA: 912 - Rai	iling Repair, N	A: 140 -	Deck	Seal	ling - Gravity Feo	d Resin		
Existing Bridge Information									
				Con	nmei	nt	Curb P	resent	No
Alignment	Use Exis	ting					Cut	Trees	Yes
Profile	Use Exis	ting					R/W	Req'd	No
Floodplain Coord.	Select	•••					Survey	Req'd	No
OHWM Determ.	N/A		Soil Borings Req'd						no
MOT Type	Barrie	er				Utility	Relocation	Req'd	No
						Hydrau	lic Analysis	Req'd	No
	Existi	ng				Structure	Type Study	Req'd	no
General Appraisal*	9					Driveway Acco	omodations	Req'd	No
Sufficiency Rating	087.7	7				Addendum Sh	eet for Stru	ucture	Yes
Year Built	2009	)			Elig	ible for National	Historic Re	egister	No
Structure Type*	Steel con	itinuous/String	ger/Mult	ti-bea	m or	Girder	roposed		
Structure File No.*		4704517			$\rightarrow$				
Feature Intersected		OVER CSX RR			$\rightarrow$		Same		
Design Loading	Н	S25 or greater			$\rightarrow$		Same		
Number of Spans		3			$\rightarrow$		Same		
Out↔Out Width*		63		f	t→		Same		ft
Bridge Railing Type	42" Defl T	ype Para (Sing	le Slope	e)	$\rightarrow$		Same		
Curb↔Curb Width		60		f	t→		Same		ft
Overall Length		145		f	t→		Same		ft
Approach Slab Len		25		f	t		Same		
Vertical Clearance				f	t→		Same		ft
Horiz. Clearance				f	t→		Same		ft
Wearing Surf Type	Su	per Plasticized	d		$\rightarrow$		Same		
Wearing Surf Thick		1		ir	ı→		Same		in

Remove existing coatings and re-seal inside and top face of concrete parapets with epoxy-

Seal bridge deck and app slab with GFR. Remove existing coatings and re-seal insidure thane (App slabs parapets also) Repair the horizontally cracked tops of purethane. Clear and grub vegetation at bridge. All BTAs Type 1 except inside trailing end Repair the horizontally cracked tops of parapets. Seal reapired areas with epoxy-

All BTAs Type 1 except inside trailing end has "T-Type" hole pattern drilled in for Type 2

Project Scope	e pid 1077	14 Project Name		LOR IR 0090 10	0.76			
• Bridge Location	LOR-IR-90-13.	190L	Preliminary (	Cost Estimate	\$16,000	.00		
Treatment Types	Deck Sealing with SRS							
Existing Bridge Information								
		Сог	nment	Curb	Present	No		
Alignment	Use Existing			Cı	ut Trees	No		
Profile	Use Existing			R/V	W Req'd	No		
Floodplain Coord.	Select			Surve	ey Req'd	No		
OHWM Determ.	N/A			Soil Boring	gs Req'd	no		
MOT Type	Barrier			Utility Relocation	on Req'd	No		
				Hydraulic Analys		No		
	Existing	_		ucture Type Stuc		no		
General Appraisal*	9			vay Accomodation		No		
Sufficiency Rating	091.5		Adder	dum Sheet for St	ructure	Yes		
Year Built			-	lational Historic I	Register	No		
Structure Type*	stressed concrete con	tinuous/Stringer/N	ulti-beam or (	Gii Proposed				
Structure File No.*	47100		<b>→</b>					
Feature Intersected	Over Lor 05	7 19.16	→	Same				
Design Loading		3	→	Same				
Number of Spans			→	Same				
Out↔Out Width*			t→	Same		ft		
Bridge Railing Type	42" Defl Type Para	(Single Slope)	$\rightarrow$	Same				
Curb↔Curb Width	60	f	t→	Same		ft		
Overall Length	182	f	t→	Same		ft		
Approach Slab Len	30	f	ťt	Same				
Vertical Clearance		f	t→	Same		ft		
Horiz. Clearance		f	t→	Same		ft		
Wearing Surf Type	Super Plas	ticized	$\rightarrow$	Same				
Wearing Surf Thick	1	i	ו <del>→</del>	Same		in		

With SRS. BTAs - Leading Ends - Type 1; Trailing Ends BTAs - Leading Ends - Type 1; Trailing End Outside - Type 2; Trailing End Inside - None

Project Scope	е рід 1077 <sup>-</sup>	14 Project Name		LOR IR 0090	) 10.76			
• Bridge Location	LOR-IR-90-13.2	210R	Prelimi	nary Cost Estimate	\$16,00	0.00		
हुन्दु Treatment Types	Deck Sealing with SRS							
Existing Bridge Information								
		Со	mment	Cı	urb Present	No		
Alignment	Use Existing				Cut Trees	No		
Profile	Use Existing				R/W Req'd	No		
Floodplain Coord.	Select			Su	urvey Req'd	No		
OHWM Determ.	N/A			Soil Bo	rings Req'd	no		
MOT Type	Barrier			Utility Reloca	ation Req'd	No		
				Hydraulic Ana		No		
	Existing	_		Structure Type S	tudy Req'd	no		
General Appraisal*	9		0	Driveway Accomoda	tions Req'd	No		
Sufficiency Rating	091.1		4	Addendum Sheet fo	r Structure	Yes		
Year Built	2017		-	e for National Histor	ic Register	No		
Structure Type*	stressed concrete con	tinuous/Stringer/A	Aulti-bea	m or Gil Propose	ed			
Structure File No.*	47100	00	$\rightarrow$					
Feature Intersected	SR 57	7	$\rightarrow$	Same				
Design Loading	HL93	3	$\rightarrow$	Same				
Number of Spans	2		$\rightarrow$	Same				
Out↔Out Width*	63.4		ft→	Same		ft		
Bridge Railing Type	42" Defl Type Para	(Single Slope)	$\rightarrow$	Same				
Curb↔Curb Width	60		ft→	Same		ft		
Overall Length	182		ft →	Same		ft		
Approach Slab Len	30		ft	Same				
Vertical Clearance			ft→	Same		ft		
Horiz. Clearance			ft→	Same		ft		
Wearing Surf Type	Super Plast	ticized	$\rightarrow$	Same				
Wearing Surf Thick	1	i	n →	Same		in		

With SRS. BTAs - Leading Ends - Type 1; Trailing Ends BTAs - Leading Ends - Type 1; Trailing End Outside - Type 2; Trailing End Inside - Type 1

Project Scope	е <sub>РІО</sub> 10771	Project Name		LOR IR	0090 10.76		
* Bridge Location	LOR-IR-90-13.	540L	Preli	minary Cost Estin	nate \$11,00	0.00	
हुन्दु Treatment Types	Deck Sealing with SRS	5					
Existing Bridge Information							
		C	ommen	t	Curb Present	No	
Alignment	Use Existing				Cut Trees	No	
Profile	Use Existing				R/W Req'd	No	
Floodplain Coord.	Select				Survey Req'd	No	
OHWM Determ.	N/A	Soil Borings Req'd no					
MOT Type	Barrier	Utility Relocation Req'd No					
	Hydraulic Analysis Req'd No						
Existing Structure Type Study Req'd						no	
General Appraisal*	9			Driveway Accor	nodations Req'd	No	
Sufficiency Rating	090.1			Addendum She	et for Structure	Yes	
Year Built	2017		Eligi	ble for National H	listoric Register	No	
Structure Type*	Prestressed concret	e/Stringer/Multi-	beam o	or Girder Pro	oposed		
Structure File No.*	471000	02	$\rightarrow$				
Feature Intersected	OVER W.RIVER R	ROAD (CR20)	$\rightarrow$	S	Same		
Design Loading	HL93	}	$\rightarrow$	S	Same		
Number of Spans	1		$\rightarrow$	S	Same		
Out↔Out Width*	71.4		ft →	S	Same	ft	
Bridge Railing Type	Reinf Conc I	Parapet	$\rightarrow$	S	Same		
Curb↔Curb Width	68		ft →	S	Same	ft	
Overall Length	98		ft →	S	Same	ft	
Approach Slab Len	30		ft	S	Same		
Vertical Clearance			ft →	S	Same	ft	
Horiz. Clearance			ft →	S	Same	ft	
Wearing Surf Type	Super Plast	ticized	$\rightarrow$	S	Same		
Wearing Surf Thick	1		in →	S	Same	in	

With SRS. BTAs - Leading Ends - Type 1; Trailing Ends BTAs - Leading Ends - Type 1; Trailing End Outside - Type 2; Trailing End Inside - Type 1

Project Scope	PID 10771	14 Project Name		LOR IR 0090 10	).76		
* Bridge Location	LOR-IR-90-13.5	550R	Preliminary (	Cost Estimate	\$11,000.	00	
Treatment Types	Deck Sealing with SRS	;					
Existing Bridge Information							
		Cor	nment	Curb I	Present	No	
Alignment	Use Existing			Cu	t Trees	No	
Profile	Use Existing			R/V	V Req'd	No	
Floodplain Coord.	Select			Surve	y Req'd	No	
OHWM Determ.	N/A	Soil Borings Req'd n					
MOT Type	Barrier	Utility Relocation Req'd No					
Hydraulic Analysis Req'd							
	Existing		Str	ucture Type Stud	y Req'd	no	
General Appraisal*	9		Drivew	vay Accomodation	s Req'd	No	
Sufficiency Rating	095.6		Adden	dum Sheet for St	ructure	Yes	
Year Built	2018		Eligible for N	lational Historic R	legister	No	
Structure Type*	Prestressed concrete	e/Stringer/Multi-b	eam or Girder	Proposed			
Structure File No.*	471000	)3	$\rightarrow$				
Feature Intersected	Over W. River	Rd. CR20	→	Same			
Design Loading	HL93		→	Same			
Number of Spans	1		→	Same			
Out↔Out Width*	73.3	f	t→	Same		ft	
Bridge Railing Type	42" Defl Type Para	(Single Slope)	→	Same			
Curb↔Curb Width	70	f	t→	Same		ft	
Overall Length	98.1	f	t→	Same		ft	
Approach Slab Len	30	f	ťt	Same			
Vertical Clearance		f	t→	Same		ft	
Horiz. Clearance		f	t→	Same		ft	
Wearing Surf Type	Super Plast	icized	→	Same			
Wearing Surf Thick	1	i	n →	Same		in	

Viv Seal bridge deck and app slab with SRS. BTAs - Leading Ends - Type 1; Trailing Enp pattern for Type 1 BTAs - Leading Ends - Type 1; Trailing End Outside - Type 2; Trailing End Inside - 5 hole

Project Scope	e pid	107714	P	Project Name		LOR IR	0090 10.76	
* Bridge Location	LOR	R-IR-90-14.270L			Pre	liminary Cost Esti	mate \$87	,000.00
<u> </u>	NA: 131 - L Railing Rep	-	Concre	te, NA	: 140	- Deck Sealing - (	Gravity Fed Re	sin, NA: 912 -
Existing Bridge Information								
				Co	nme	nt	Curb Prese	nt No
Alignment	Use Ex	kisting					Cut Tre	es No
Profile	Use E>	kisting					R/W Req	'd No
Floodplain Coord.	In-H	ouse					Survey Req	'd No
OHWM Determ.	In-H	ouse				S	oil Borings Req	'd no
MOT Type	Bar	rier				Utility I	Relocation Req	'd No
						Hydraul	ic Analysis Req	'd No
	Exis	ting				Structure T	Type Study Req	'd no
General Appraisal*	9	)				Driveway Acco	modations Req	'd No
Sufficiency Rating	092	2.4				Addendum She	eet for Structu	re Yes
Year Built	20	13			Elig	ible for National	Historic Regist	er No
Structure Type*	stressed co	ncrete continuo	us/Stri	nger/N	\ulti-	beam or Gii Pr	oposed	
Structure File No.*		4704665			$\rightarrow$			
Feature Intersected	OVER	BLACK RIVER/F	ARK RD	)	$\rightarrow$		Same	
Design Loading		HL93			$\rightarrow$		Same	
Number of Spans		3			$\rightarrow$		Same	
Out↔Out Width*		67		f	t →		Same	ft
Bridge Railing Type	42" Defl	Type Para (Sin	gle Slop	be)	$\rightarrow$		Same	
Curb↔Curb Width		64		f	t →		Same	ft
Overall Length		363		f	t →		Same	ft
Approach Slab Len		25		1	ft		Same	
Vertical Clearance				f	t →		Same	ft
Horiz. Clearance				f	't →		Same	ft
Wearing Surf Type		Super Plasticize	ed		$\rightarrow$		Same	
Wearing Surf Thick		1		i	n →		Same	in

Remove existing coatings and re-seal inside and top face of concrete parapets with epoxy-

Seal bridge deck and app slab with GFR. Remove existing coatings and re-seal insidure thane (App slabs parapets also) Repair the horizontally cracked tops of purethane. Patching Concrete Bridge Deck - Rear Lt of BTAs: Leading Inside - Type 1, Outside - O Repair the horizontally cracked tops of parapets. Seal reapired areas with epoxy-

Patching Concrete Bridge Deck - Rear Lt app slab

BTAs: Leading Inside - Type 1, Outside - Conc barrier; Trailing Ends - Type 2

Project Scope	е <sub>РІФ</sub> 1077	14 Project Name		LOR IR 0	090 10.76		
* Bridge Location	LOR-IR-90-14.	280R	Prel	iminary Cost Estima	ate \$74,00	0.00	
Treatment Types	NA: 912 - Railing Rep	air, NA: 140 - Deck	c Seal	ing - Gravity Fed R	esin		
Existing Bridge Information							
		Сог	nmer	nt	Curb Present	No	
Alignment	Use Existing				Cut Trees	No	
Profile	Use Existing				R/W Req'd	No	
Floodplain Coord.	In-House				Survey Req'd	No	
OHWM Determ.	In-House	Soil Borings Req'd no					
MOT Type	Barrier	Utility Relocation Req'd No					
	Hydraulic Analysis Req'd No						
Existing Structure Type Study Req'd							
General Appraisal*	9			Driveway Accome	odations Req'd	No	
Sufficiency Rating	094.4			Addendum Sheet	t for Structure	Yes	
Year Built	2013		Eligi	ble for National His	storic Register	No	
Structure Type*	stressed concrete con	tinuous/Stringer/N	\ulti-b	peam or Gil Prop	oosed		
Structure File No.*	47047	03	$\rightarrow$				
Feature Intersected	OVER BLACK RIV	ER/PARK RD	$\rightarrow$	Sa	me		
Design Loading	HL93	3	$\rightarrow$	Sa	me		
Number of Spans	3		$\rightarrow$	Sa	me		
Out↔Out Width*	67	f	t→	Sa	me	ft	
Bridge Railing Type	42" Defl Type Para	(Single Slope)	$\rightarrow$	Sa	me		
Curb↔Curb Width	64	f	t→	Sa	me	ft	
Overall Length	363	f	t→	Sa	me	ft	
Approach Slab Len	25	1	ft	Sa	me		
Vertical Clearance		f	t→	Sa	me	ft	
Horiz. Clearance		f	t→	Sa	me	ft	
Wearing Surf Type	Super Plas	ticized	$\rightarrow$	Sa	me		
Wearing Surf Thick	1	i	n →	Sa	me	in	

Remove existing coatings and re-seal inside and top face of concrete parapets with epoxy-

Seal bridge deck and app slab with GFR. Remove existing coatings and re-seal insi-urethane (App slabs parapets also) Repair the horizontally cracked tops of p urethane. BTAs - Leading Ends - Type 1; Trailing End Looks like holes for Type 1 and Type 2 BT Repair the horizontally cracked tops of parapets. Seal reapired areas with epoxy-

BTAs - Leading Ends - Type 1; Trailing End Outside - conc barrier; Trailing End Inside -Looks like holes for Type 1 and Type 2 BTAs

Project Scope	PID	107714	Project Name		LOR IR	0090 10.76		
Bridge Location	LOR-	R-90-14.440L		Pre	iminary Cost Esti	mate \$38,00	00.00	
Treatment Types	NA: 140 - De	eck Sealing - Gro	avity Fed Re	sin, N	IA: 912 - Railing I	Repair		
Existing Bridge Information								
			Сог	nmei	nt	Curb Present	No	
Alignment	Use Exi	sting				Cut Trees	No	
Profile	Use Exi	sting				R/W Req'd	No	
Floodplain Coord.	In-Hou	use	Survey Req'd					
OHWM Determ.	In-Hou	use	Soil Borings Req'd no					
MOT Type	Barri	er	Utility Relocation Req'd No					
					Hydraul	ic Analysis Req'd	No	
Existing Structure Type Study Req'd							no	
General Appraisal*	9				Driveway Acco	modations Req'd	No	
Sufficiency Rating	094.	0			Addendum She	eet for Structure	Yes	
Year Built	201	3		Elig	ible for National	Historic Register	No	
Structure Type*	Steel co	ntinuous/String	er/Multi-bea	m or	Girder Pr	oposed		
Structure File No.*		4704738		$\rightarrow$				
Feature Intersected	OVER	FORD ROAD TH	-108	$\rightarrow$		Same		
Design Loading		HL93		$\rightarrow$		Same		
Number of Spans		3		$\rightarrow$		Same		
Out↔Out Width*		65	f	t→		Same	ft	
Bridge Railing Type	42" Defl T	ype Para (Singl	e Slope)	$\rightarrow$		Same		
Curb↔Curb Width		62	f	t→		Same	ft	
Overall Length		151.5	f	t→		Same	ft	
Approach Slab Len		25	f	t		Same		
Vertical Clearance			f	t→		Same	ft	
Horiz. Clearance			f	t→		Same	ft	
Wearing Surf Type	Su	uper Plasticized		$\rightarrow$		Same		
Wearing Surf Thick		1		n →		Same		

Remove existing coatings and re-seal inside and top face of concrete parapets with epoxy-

Repair the horizontally cracked tops of parapets. Seal reapired areas with epoxy-

Seal bridge deck and app slab with GFR. Remove existing coatings and re-seal insi urethane (App slabs parapets also) Repair the horizontally cracked tops of p urethane. BTAs - Leading Ends - Type 1; Trailing En Type 2 BTAs - Leading Ends - Type 1; Trailing End Outside - Conc Barrier; Trailing End Inside -

Project Scope	е рід 1077	11	roject Name	LOR	IR 0090 1	0.76	
Bridge Location	LOR-IR-90-14	.440R	Р	reliminary Cost	Estimate	\$52,000	0.00
Treatment Types	NA: 912 - Railing Re <sub>l</sub>	pair, NA: 140	- Deck S	ealing - Gravity	Fed Resin		
Existing Bridge Information							
			Comn	nent	Curb	Present	No
Alignment	Use Existing				Ci	ut Trees	No
Profile	Use Existing				R/	W Req'd	No
Floodplain Coord.	In-House		Survey Req'd				
OHWM Determ.	In-House	Soil Borings Req'd no					
MOT Type	Barrier	Utility Relocation Req'd No					
				Hydi	raulic Analys	sis Req'd	No
Existing Structure Type Study Req'd							no
General Appraisal*	9			Driveway A	ccomodatio	ns Req'd	No
Sufficiency Rating	091.5			Addendum	Sheet for St	tructure	Yes
Year Built	2013		E	igible for Natio	nal Historic	Register	No
Structure Type*	Steel continuous	/Stringer/Mul	lti-beam	or Girder	Proposed		
Structure File No.*	4704	754	-	<b>&gt;</b>			
Feature Intersected	OVER FORD R	OAD TH-108	-	<b>&gt;</b>	Same		
Design Loading	HL9	3	-	<b>&gt;</b>	Same		
Number of Spans	3		-	<b>&gt;</b>	Same		
Out↔Out Width*	65	i	ft -	<b>&gt;</b>	Same		ft
Bridge Railing Type	42" Defl Type Par	a (Single Slop	e) -	<b>&gt;</b>	Same		
Curb↔Curb Width	62		ft -	<b>&gt;</b>	Same		ft
Overall Length	179	9	ft -	<b>&gt;</b>	Same		ft
Approach Slab Len	25	i	ft		Same		
Vertical Clearance			ft -	<b>&gt;</b>	Same		ft
Horiz. Clearance			ft -	>	Same		ft
Wearing Surf Type	Super Pla	sticized	-	→	Same		
Wearing Surf Thick	1		in -	<i>&gt;</i>	Same		in

Seal bridge deck and app slab with GFR. Remove existing coatings and re-seal insidure thane (App slabs parapets also) Repair the horizontally cracked tops of purethane. BTAs - Leading Inside End - Type 1; Outside barrier; Trailing End Inside - holes for type Remove existing coatings and re-seal inside and top face of concrete parapets with epoxy-

Repair the horizontally cracked tops of parapets. Seal reapired areas with epoxy-

BTAs - Leading Inside End - Type 1; Outside - Conc Barrier; Trailing End Outside - Conc barrier; Trailing End Inside - holes for type 1 and type 2 BTA

Project Scope	PID	107714	<b>1</b> '	ject ame	LOR IF	R 0090 10.76	
* Bridge Location	LO	R-MR-1700	00	Pre	eliminary Cost Est	imate \$0.	00
Treatment Types	No Work						
Existing Bridge Information							
				Comme	ent	Curb Present	Y/N
Alignment	Sele	ct				Cut Trees	Y/N
Profile	Sele	ect				R/W Req'd	Y/N
Floodplain Coord.	Sele	ect				Survey Req'd	Y/N
OHWM Determ.	Sele	ect			1	Soil Borings Req'd	Y/N
MOT Type	Sele	ect			Utility	Relocation Req'd	Y/N
					Hydrau	lic Analysis Req'd	Y/N
	Exis	ting			Structure	Type Study Req'd	Y/N
General Appraisal*	ç	)			Driveway Acco	omodations Req'd	Y/N
Sufficiency Rating	070	5.2			Addendum Sh	eet for Structure	Y/N
Year Built	20	11		Eli	gible for National	Historic Register	Y/N
Structure Type*	Steel c	ontinuous/St	tringer/Multi	i-beam o	r Girder P	roposed	
Structure File No.*		4704789	)	$\rightarrow$		-	
Feature Intersected	C	VER LOR-90-	-14.78	→			
Design Loading		HL93		→			
Number of Spans		4		→			
Out↔Out Width*		42		ft →			ft
Bridge Railing Type	R	einf Conc Pa	arapet	→			
Curb↔Curb Width		30		ft →			ft
Overall Length		308.9		ft →			ft
Approach Slab Len		25		ft			
Vertical Clearance				ft →			ft
Horiz. Clearance				ft →			ft
Wearing Surf Type		Super Plastic	cized	→			
Wearing Surf Thick		. 1		in →			in

Project Scope	PID 1077	14 Project Name	L	OR IR 0090 10.76			
Bridge Location	LOR-SR-254-1	.900	Preliminary Co	st Estimate \$90,0	00.00		
Treatment Types	VPF						
Existing Bridge Information							
		Cor	nment	Curb Present	Maybe		
Alignment	Use Existing			Cut Trees	No		
Profile	Use Existing			R/W Req'd	No		
Floodplain Coord.	Select			Survey Req'd	No		
OHWM Determ.	N/A		Soil Borings Req'd				
MOT Type	Drums		L	Itility Relocation Req'd	No		
Hydraulic Analysis Req'd							
Existing Structure Type Study Req'							
General Appraisal*	7		Drivewa	y Accomodations Req'd	No		
Sufficiency Rating	093.6		Addend	um Sheet for Structure	Yes		
Year Built	1970		Eligible for Nat	tional Historic Register	No		
Structure Type*	Steel continuous/	Stringer/Multi-bea	m or Girder	Proposed			
Structure File No.*	47062	77	$\rightarrow$				
Feature Intersected	OVER LOR-0	90-1565	$\rightarrow$	Same			
Design Loading	HS20-44 & Alt. A	Ailitary Load	$\rightarrow$	Same			
Number of Spans	4		$\rightarrow$	Same			
Out↔Out Width*	91	f	t→	Same	ft		
Bridge Railing Type	36" Defl Type Pa	ra (NJ Shape)	$\rightarrow$	same but add VPF			
Curb↔Curb Width	88	f	t→	Same	ft		
Overall Length	304	f	t→	Same	ft		
Approach Slab Len	25	f	ťt				
Vertical Clearance		f	t→	Same	ft		
Horiz. Clearance		f	t→	Same	ft		
Wearing Surf Type	Super Plas	ticized	$\rightarrow$	Same			
Wearing Surf Thick	1	i	ו <del>→</del>	Same	in		

Project Scope	е <sub>рід</sub> 1077	14 Project Name		LOR IR 0090 1	0.76		
* Bridge Location	LOR-IR-90-16	.580	Preliminary	Cost Estimate	\$172,00	0.00	
हुन्दु Treatment Types	( ulvert Invert renair						
Existing Bridge Information							
		Co	mment	Curb	Present	No	
Alignment	Use Existing			C	ut Trees	Yes	
Profile	Use Existing			R/	W Req'd	No	
Floodplain Coord.	Dsgn Consultant		Survey Req'd				
OHWM Determ.	Dsgn Consultant	Soil Borings Req'd no					
MOT Type	Barrier	Utility Relocation Req'd No					
	Hydraulic Analysis Req'd						
	Existing		S	tructure Type Stud	dy Req'd	no	
General Appraisal*	6		Drive	way Accomodatio	ns Req'd	No	
Sufficiency Rating	076.7		Adde	endum Sheet for St	tructure	Yes	
Year Built	1970		Eligible for	National Historic	Register	No	
Structure Type*	Steel/Culver	t (includes frame c	ulverts)	Proposed			
Structure File No.*	47048	00	$\rightarrow$				
Feature Intersected	JUNGBLUTH	I DITCH	$\rightarrow$	Same			
Design Loading	HS20-44 & Alt. A	Ailitary Load	$\rightarrow$	Same			
Number of Spans	1		$\rightarrow$	Same			
Out↔Out Width*	0	1	ft→	Same		ft	
Bridge Railing Type	None	9	$\rightarrow$	Same			
Curb↔Curb Width	0	1	ft→	Same		ft	
Overall Length	28	1	ft→	Same		ft	
Approach Slab Len	0		ft	Same			
Vertical Clearance		1	ft →	Same		ft	
Horiz. Clearance		1	ft →	Same		ft	
Wearing Surf Type	Not Appli	cable	→	Same			
Wearing Surf Thick	0	i	n →	Same		in	

 Field pave concrete invert full length. Height up 1.5 ft on walls plus (24 estimate) discrete repairs to CMP above that.

Project Scope	e pid 1077	Project Name	LOR IR	0090 10.76	
<ul> <li>Bridge Location</li> </ul>	LOR-SR-301-23	3.480	Preliminary Cost Esti	mate \$0.	00
Treatment Types	No Work				
Existing Bridge Information					
		Со	mment	Curb Present	Y/N
Alignment	Select			Cut Trees	Y/N
Profile	Select			R/W Req'd	Y/N
Floodplain Coord.	Select			Survey Req'd	Y/N
OHWM Determ.	Select		S	oil Borings Req'd	Y/N
MOT Type	Select		Utility	Relocation Req'd	Y/N
			Hydraul	lic Analysis Req'd	Y/N
	Existing		Structure	Type Study Req'd	Y/N
General Appraisal*	9		Driveway Acco	modations Req'd	Y/N
Sufficiency Rating	075.4		Addendum She	eet for Structure	Y/N
Year Built	2013		Eligible for National	Historic Register	Y/N
Structure Type*	stressed concrete con	tinuous/Stringer/A	Aulti-beam or Giu Pr	roposed	
Structure File No.*	47067	30	$\rightarrow$		
Feature Intersected	OVER IR LOR	-90-1700	$\rightarrow$		
Design Loading	HL93	3	$\rightarrow$		
Number of Spans	4		$\rightarrow$		
Out↔Out Width*	42		ft →		ft
Bridge Railing Type	42" Defl Type Para	(Single Slope)	$\rightarrow$		
Curb↔Curb Width	30		ft →		ft
Overall Length	385.	3	ft →		ft
Approach Slab Len	25		ft		
Vertical Clearance			ft →		ft
Horiz. Clearance			ft →		ft
Wearing Surf Type	Super Plas	ticized	$\rightarrow$		
Wearing Surf Thick	. 1	1	in →		in

Project Scope	PID	107714	Project Name		LOR IR	0090 10.76	
* Bridge Location	LOR	-MR-22000		Pre	liminary Cost Esti	imate \$0	.00
भूत Treatment Types	No Work						
Existing Bridge Information							
			Co	omme	nt	Curb Present	
Alignment	Select					Cut Trees	Y/N
Profile	Select					R/W Req'd	Y/N
Floodplain Coord.	Select					Survey Req'd	Y/N
OHWM Determ.	Select				S	oil Borings Req'd	Y/N
MOT Type	Select				Utility	Relocation Req'd	Y/N
					Hydrau	lic Analysis Req'd	Y/N
	Existi	ng			Structure	Type Study Req'd	Y/N
General Appraisal*	9				Driveway Acco	modations Req'd	Y/N
Sufficiency Rating	078.4	4			Addendum Sh	eet for Structure	Y/N
Year Built	2015	5		Elig	ible for National	Historic Register	Y/N
Structure Type*	Steel con	ntinuous/String	ger/Multi-be	am or	Girder Pr	roposed	
Structure File No.*		4704835		$\rightarrow$			
Feature Intersected	OVE	R LOR-090 -17	′53	$\rightarrow$			
Design Loading	HS20-44	4 & Alt. Militar	y Load	$\rightarrow$			
Number of Spans		4		$\rightarrow$			
Out↔Out Width*		36		ft →			ft
Bridge Railing Type		Other		$\rightarrow$			
Curb⇔Curb Width		24		ft →			ft
Overall Length		315		ft →			ft
Approach Slab Len		25		ft			
Vertical Clearance				ft →			ft
Horiz. Clearance				ft →			ft
Wearing Surf Type	Su	per Plasticize	d	$\rightarrow$			
Wearing Surf Thick		1		in →			in

Project Scope	е <sub>РІФ</sub> 10771	Project	10	DR IR 0090 10.7	6
-		Name			
Bridge Location	LOR-IR-90-17.	860	Preliminary Co	st Estimate	\$0.00
Treatment Types	No Work				
Existing Bridge Information					
		Cor	nment	Curb Pres	sent Y/N
Alignment	Select			Cut T	rees Y/N
Profile	Select			R/W R	eq'd Y/N
Floodplain Coord.	Select			Survey R	eq'd Y/N
OHWM Determ.	Select			Soil Borings R	eq'd Y/N
MOT Type	Select		U	tility Relocation R	eq'd Y/N
			Hy	ydraulic Analysis R	eq'd Y/N
	Existing		Struc	ture Type Study R	eq'd Y/N
General Appraisal*	5		Driveway	Accomodations R	eq'd Y/N
Sufficiency Rating	077.8		Addendu	um Sheet for Struct	ture Y/N
Year Built	1970		Eligible for Nat	ional Historic Regi	ster Y/N
Structure Type*	Steel continuous/	Stringer/Multi-bea	m or Girder	Proposed	
Structure File No.*	470492	24	$\rightarrow$		
Feature Intersected	OVER N/S	S RR	$\rightarrow$		
Design Loading	HS20		$\rightarrow$		
Number of Spans	3		$\rightarrow$		
Out↔Out Width*	42	f	t→		ft
Bridge Railing Type	leinf Conc Safe Curb &	: Para w Alum Rai	$\rightarrow$		
Curb↔Curb Width	38	f	t→		ft
Overall Length	163	f	t→		ft
Approach Slab Len	25	f	ťt		
Vertical Clearance		f	t→		ft
Horiz. Clearance		f	t→		ft
Wearing Surf Type	Polyest	er	$\rightarrow$		
Wearing Surf Thick	4	i	n →		in

Proposed Bridge Work (What & Why)

Project Sco	ре РІД	107714	Project		LOR	IR 0090 10	.76	
-		IR-90-17.870	Name	Duralizati			\$0.0	0
<ul> <li>Bridge Location</li> </ul>	n LUK-		Pretimi	nary Cost E	stimate	ŞU.(	0	
الله تعلق تح Treatme Typ	No Work							
Existing Bridg Informatio								
			Co	mment		Curb P	resent	Y/N
Alignme	nt Select	t				Cut	Trees	Y/N
Profi	e Select	t				R/W	' Req'd	Y/N
Floodplain Coor	. Select	t				Survey	Req'd	Y/N
OHWM Detern	n. Select	t				Soil Borings	Req'd	Y/N
MOT Typ	e Select	t			Utili	ty Relocation	Req'd	Y/N
					Hydra	aulic Analysis	Req'd	Y/N
	Existi	ng			Structur	e Type Study	Req'd	Y/N
General Appraisa	l* 5			0	riveway Ac	comodations	Req'd	Y/N
Sufficiency Ratir	g 077.	8			Addendum	Sheet for Str	ucture	Y/N
Year Bui	lt 1970	5		Eligible	for Nation	al Historic Re	egister	Y/N
Structure Typ	e* Steel cor	ntinuous/String	er/Multi-be	am or Gir	der	Proposed		
Structure File No	*	4704894		$\rightarrow$				
Feature Intersecte	d	OVER N/S RR		$\rightarrow$				
Design Loadir	g HS20-44	4 & Alt. Military	/ Load	$\rightarrow$				
Number of Spa	าร	3		$\rightarrow$				
Out↔Out Widt	1*	42		ft →				ft
Bridge Railing Typ	e Deep Bea	am Rail w Tube	Backup	$\rightarrow$				
Curb↔Curb Wid	h	38.5		ft →				ft
Overall Leng	h	154		ft →				ft
Approach Slab Le	n	25		ft				
Vertical Clearand	e			ft →				ft
Horiz. Clearand	e			ft →				ft
Wearing Surf Typ		Polyester		$\rightarrow$				
Wearing Surf Thi		4		in →				in

Proposed Bridge Work (What & Why)

Project Scop	e pip 1077	1 A Projec	:t	LOR IR 009	0 10 76	
Project Scope		Ham				
Bridge Location	LOR-IR-90-18	.150	Prel	iminary Cost Estimate	\$140,00	00.00
हुन्दु Treatment Types	Culvert Invert repair					
Existing Bridge Information						
		(	Commer	t C	urb Present	No
Alignment	Use Existing				Cut Trees	Yes
Profile	Use Existing				R/W Req'd	No
Floodplain Coord.	Dsgn Consultant			<u>c</u>	Survey Req'd	No
OHWM Determ.	Dsgn Consultant			Soil B	orings Req'd	no
MOT Type	Barrier			Utility Relo	cation Req'd	No
				Hydraulic Ar	nalysis Req'd	Yes
	Existing			Structure Type	Study Req'd	no
General Appraisal*	6			Driveway Accomod	ations Req'd	No
Sufficiency Rating	076.7			Addendum Sheet f	or Structure	Yes
Year Built	1970		Eligi	ble for National Histo	oric Register	No
Structure Type*	Steel/Culver	t (includes frame	e culver	s) Propos	sed	
Structure File No.*	47049	67	$\rightarrow$			
Feature Intersected	KLEIN A	AIN	$\rightarrow$	Sam	e	
Design Loading	HS20-44 & Alt.	Wilitary Load	$\rightarrow$	Sam	e	
Number of Spans	1		$\rightarrow$	Sam	e	
Out↔Out Width*	0		ft →	Sam	e	ft
Bridge Railing Type	None	e	$\rightarrow$	Sam	e	
Curb↔Curb Width	0		ft →	Sam	e	ft
Overall Length	12		ft →	Sam	e	ft
Approach Slab Len	0		ft	Sam	e	
Vertical Clearance			ft →	Sam	е	ft
Horiz. Clearance			ft →	Sam	e	ft
Wearing Surf Type	Not Appl	icable	$\rightarrow$	Sam	e	
Wearing Surf Thick	0		in →	Sam	e	in

Field pave concrete invert full length. Height up 2.0 ft on walls plus (12 -estimate)

discrete repairs to CMP above that. Repair concrete headawall deterioration at Fwd Rt.

Proposed Bridge Work (What & Why)

Drainat Coope	4077	Project			10 7(	
Project Scope		Hame		LOR IR 0090	10.76	
Bridge Location	LOR-IR-90-18.	610L	Preli	minary Cost Estimate	\$14,00	0.00
Treatment Types	NA: 142 - Deck Sealin	ng - Silane SRS				
Existing Bridge Information						
		Ca	ommen	t Cu	urb Present	No
Alignment	Use Existing				Cut Trees	Yes
Profile	Use Existing				R/W Req'd	No
Floodplain Coord.	Select			Su	urvey Req'd	No
OHWM Determ.	Select			Soil Bo	rings Req'd	no
MOT Type	Barrier			Utility Reloc		No
				Hydraulic Ana	alysis Req'd	No
	Existing			Structure Type S	Study Req'd	no
General Appraisal*	7			Driveway Accomoda	tions Req'd	No
Sufficiency Rating	095.4			Addendum Sheet fo	r Structure	Yes
Year Built	1970		Eligi	ble for National Histor	ric Register	No
Structure Type*	Concre	ete continuous/Sla	ab	Propos	ed	
Structure File No.*	47049	59	$\rightarrow$			
Feature Intersected	FRENCH (	CREEK	$\rightarrow$	Same		
Design Loading	HS25 or g	reater	$\rightarrow$	Same		
Number of Spans	3		$\rightarrow$	Same		
Out↔Out Width*	90.5	i	ft →	Same		ft
Bridge Railing Type	42" Defl Type Pa	ra (NJ Shape)	$\rightarrow$	Same		
Curb↔Curb Width	87		ft →	Same		ft
Overall Length	105		ft →	Same		ft
Approach Slab Len	25		ft	Same		
Vertical Clearance			ft →	Same		ft
Horiz. Clearance			ft →	Same		ft
Wearing Surf Type	Super Plas	ticized	$\rightarrow$	Same		
Wearing Surf Thick	1		in →	Same		in

Why Seal deck and approach slabs with SRS BTAs - Leading Ends - Type 1; Trailing E

BTAs - Leading Ends - Type 1; Trailing End Outside - Type 2; Trailing End Inside - None

Bridge Location       LOR-IR-90-18.610R       Preliminary Cost Estimate       \$11,000.00         Treatment Types       NA: 142 - Deck Sealing - Silane SRS       NA: 142 - Deck Sealing - Silane SRS         Existing Bridge Information       NA: 142 - Deck Sealing - Silane SRS         Alignment Profile       Use Existing       Curb Present Curb Present       N         Profile       Use Existing       R/W Req'd       N         Floodplain Coord.       Select       Survey Req'd       N         OHWM Determ.       Select       Soil Borings Req'd       N         MOT Type       Barrier       Utility Relocation Req'd       N         Existing       Structure Type Study Req'd       N         General Appraisal*       7       Driveway Accomodations Req'd       N         Sufficiency Rating       093.5       Addendum Sheet for Structure       Y	Droiset Coon		Project		DR IR 0090 10.76		
Treatment Types       NA: 142 - Deck Sealing - Silane SRS         Existing Bridge Information       Curb Present         Profile       Use Existing         Profile       Use Existing         Profile       Use Existing         R/W Req'd       N         Profile       Use Existing         Profile       Use Existing         R/W Req'd       N         WM Determ.       Select         Soli Borings Req'd       N         MOT Type       Barrier         Utility Relocation Req'd       N         Hydraulic Analysis Req'd       N         MOT Type       Barrier         Utility Relocation Req'd       N         Structure Type Study Req'd       N         Sufficiency Rating       093.5         Addendum Sheet for Structure       Y         Year Built       1970         Eligible for National Historic Register       N         Structure Type*       Concrete continuous/Slab       Proposed         Structure File No.*       4704983       >       Same         VeraBuilt       1970       Eligible for National Historic Register       N         Feature Intersected       FRENCH CREEK       >       Same	Project Scope		Name	LUR IR 0090 I	0.76		
Types W. Hz Deck Setting Shake Sho Existing Bridge Information Alignment Profile Use Existing Use Existing Use Existing Floodplain Coord. Select Soil Borings Req'd N OHWM Determ. Select Soil Borings Req'd M Hydraulic Analysis Req'd N Hydraulic Analysis Req'd N Structure Type Structure Type Study Req'd Feature Intersected FRENCH CREEK Propsed Structure File No.* Freature Intersected FRENCH CREEK Same Out⇔Out Width* 75.5 ft Same Same Curb⇔Curb Width 72.5 ft Same Sam		e Location LOR-IR-90-18.610R	Prelir	minary Cost Estimate	\$11,000.00		
Information       Comment       Curb Present       N         Alignment       Use Existing       Cut Trees       Y         Profile       Use Existing       R/W Req'd       N         Floodplain Coord.       Select       Survey Req'd       N         OHWM Determ.       Select       Soil Borings Req'd       N         MOT Type       Barrier       Utility Relocation Req'd       N         MOT Type       Barrier       Utility Relocation Req'd       N         Hydraulic Analysis Req'd       M       N       N         Sufficiency Rating       093.5       Addendum Sheet for Structure       N         Sufficiency Rating       093.5       Addendum Sheet for Structure       N         Structure Type*       Concrete continuous/Slab       Proposed       N         Structure Type*       Concrete continuous/Slab       Proposed       N         Structure File No.*       4704983       >       Same       N         Design Loading       HS25 or greater       >       Same       Same         Number of Spans       3       >       Same       Same       Same         Out↔Out Width       72.5       ft >       Same       Same         O	<u> </u>	NA: 147 - Deck Sealing - Si	lane SRS				
AlignmentUse ExistingCut TreesYProfileUse ExistingR/W Req'dNProfileSelectSurvey Req'dNOHWM Determ.SelectSoil Borings Req'drMOT TypeBarrierUtility Relocation Req'dNMOT TypeBarrierUtility Relocation Req'dNHydraulic Analysis Req'dMHydraulic Analysis Req'dNSufficiency Rating093.5Structure Type Study Req'dNStructure Type*Concrete continuous/SlabProposedNStructure Type*Concrete continuous/SlabProposedNStructure File No.*4704983>Feature IntersectedFRENCH CREEK>Design LoadingHS25 or greater>SameSameOut<>OutSame3>SameOutOut<>Out Width*75.5ft ->SameSameOut<	5 5	0 0					
ProfileUse ExistingR/W Req'dFloodplain Coord.SelectSurvey Req'dOHWM Determ.SelectSoil Borings Req'dMOT TypeBarrierUtility Relocation Req'dMOT TypeBarrierUtility Relocation Req'dMOT TypeBarrierUtility Relocation Req'dExistingStructure Type Study Req'dMGeneral Appraisal*7Driveway Accomodations Req'dSufficiency Rating093.5Addendum Sheet for StructureStructure Type*Concrete continuous/SlabProposedStructure File No.*4704983>Feature IntersectedFRENCH CREEK>Design LoadingHS25 or greater>Number of Spans3>Out ↔Out Width*75.5ft >Bridge Railing Type42" Defl Type Para (NJ Shape)>Curb ↔Curb Width72.5ft >Overall Length105ft >Same			Comment	t Curb	Present No		
Floodplain Coord.       Select       Survey Req'd       N         OHWM Determ.       Select       Soil Borings Req'd       r         MOT Type       Barrier       Utility Relocation Req'd       N         Hydraulic Analysis Req'd       N       Hydraulic Analysis Req'd       N         General Appraisal*       7       Driveway Accomodations Req'd       N         Sufficiency Rating       093.5       Addendum Sheet for Structure       Y         Year Built       1970       Eligible for National Historic Register       N         Structure Type*       Concrete continuous/Slab       Proposed         Structure File No.*       4704983       >	•	5		C			
OHWM Determ.SelectSoil Borings Req'drMOT TypeBarrierUtility Relocation Req'dMHydraulic Analysis Req'dHHydraulic Analysis Req'dMExistingStructure Type Study Req'dMGeneral Appraisal*7Driveway Accomodations Req'dMSufficiency Rating093.5Addendum Sheet for StructureYYear Built1970Eligible for National Historic RegisterMStructure Type*Concrete continuous/SlabProposedStructure File No.*4704983>Feature IntersectedFRENCH CREEKSameDesign LoadingHS25 or greater>SameNumber of Spans3>SameOut⇔Out Width*75.5ft >SameBridge Railing Type42" Defl Type Para (NJ Shape)>SameCurb⇔Curb Width72.5ft >SameOverall Length105ft >Same	Profile	Profile Use Existing		R/	W Req'd No		
MOT TypeBarrierUtility Relocation Req'dNHydraulic Analysis Req'dMExistingStructure Type Study Req'dMGeneral Appraisal*7Driveway Accomodations Req'dMSufficiency Rating093.5Addendum Sheet for StructureYYear Built1970Eligible for National Historic RegisterMStructure Type*Concrete continuous/SlabProposedStructure File No.*4704983>Feature IntersectedFRENCH CREEKSameDesign LoadingHS25 or greater>SameOut ↔Out Width*75.5ft >SameBridge Railing Type42" Defl Type Para (NJ Shape)>SameOverall Length105ft >Same	Floodplain Coord.	lain Coord. Select		Surve	ey Req'd No		
Hydraulic Analysis Req'dExistingStructure Type Study Req'dGeneral Appraisal*7Driveway Accomodations Req'dNSufficiency Rating093.5Addendum Sheet for StructureYYear Built1970Eligible for National Historic RegisterNStructure Type*Concrete continuous/SlabProposedStructure File No.*4704983Feature IntersectedFRENCH CREEKDesign LoadingHS25 or greaterNumber of Spans3Out <out td="" width*<="">75.5Gut Out Width*75.5Bridge Railing Type42" Defl Type Para (NJ Shape)Overall Length105ft <math>\rightarrow</math>Same</out>	OHWM Determ.	VM Determ. Select		Soil Borin	gs Req'd no		
ExistingStructure Type Study Req'drGeneral Appraisal*7Driveway Accomodations Req'dMSufficiency Rating093.5Addendum Sheet for StructureYYear Built1970Eligible for National Historic RegisterMStructure Type*Concrete continuous/SlabProposedStructure File No.*4704983→Feature IntersectedFRENCH CREEKSameDesign LoadingHS25 or greater→Number of Spans3→Out ↔ Out Width*75.5ft →Bridge Railing Type42" Defl Type Para (NJ Shape)→Overall Length105ft →SameSame	MOT Type	MOT Type Barrier		,			
General Appraisal*7Driveway Accomodations Req'dNSufficiency Rating093.5Addendum Sheet for StructureYYear Built1970Eligible for National Historic RegisterYStructure Type*Concrete continuous/SlabProposedStructure File No.*4704983 $\rightarrow$ Feature IntersectedFRENCH CREEKSameDesign LoadingHS25 or greater $\rightarrow$ Number of Spans3 $\rightarrow$ Out $\leftrightarrow$ Out Width*75.5ft $\rightarrow$ Bridge Railing Type42" Defl Type Para (NJ Shape) $\rightarrow$ Curb $\leftrightarrow$ Curb Width72.5ft $\rightarrow$ Overall Length105ft $\rightarrow$				Hydraulic Analys	sis Req'd No		
Sufficiency Rating093.5Addendum Sheet for StructureYYear Built1970Eligible for National Historic RegisterNStructure Type*Concrete continuous/SlabProposedStructure File No.*4704983 $\rightarrow$ Feature IntersectedFRENCH CREEKSameDesign LoadingHS25 or greater $\rightarrow$ Number of Spans3 $\rightarrow$ Out $\leftrightarrow$ Out Width*75.5ft $\rightarrow$ Bridge Railing Type42" Defl Type Para (NJ Shape) $\rightarrow$ Curb $\leftrightarrow$ Curb Width72.5ft $\rightarrow$ Overall Length105ft $\rightarrow$		Existing		Structure Type Stu	dy Req'd no		
Year Built1970Eligible for National Historic RegisterStructure Type*Concrete continuous/SlabProposedStructure File No.* $4704983$ $\rightarrow$ Feature IntersectedFRENCH CREEK $\rightarrow$ Design LoadingHS25 or greater $\rightarrow$ Number of Spans $3$ $\rightarrow$ Out $\leftrightarrow$ Out Width*75.5ft $\rightarrow$ Bridge Railing Type42" Defl Type Para (NJ Shape) $\rightarrow$ Curb $\leftrightarrow$ Curb Width72.5ft $\rightarrow$ Overall Length105ft $\rightarrow$	General Appraisal*	l Appraisal* 7		Driveway Accomodatio	ns Req'd No		
Structure Type*Concrete continuous/SlabProposedStructure File No.* $4704983$ $\rightarrow$ Feature IntersectedFRENCH CREEK $\rightarrow$ Design LoadingHS25 or greater $\rightarrow$ Number of Spans3 $\rightarrow$ Out $\leftrightarrow$ Out Width*75.5ft $\rightarrow$ Bridge Railing Type42" Defl Type Para (NJ Shape) $\rightarrow$ Curb $\leftrightarrow$ Curb Width72.5ft $\rightarrow$ Overall Length105ft $\rightarrow$	Sufficiency Rating	ency Rating 093.5		Addendum Sheet for S	tructure Yes		
Structure File No.*4704983 $\rightarrow$ Feature IntersectedFRENCH CREEK $\rightarrow$ Design LoadingHS25 or greater $\rightarrow$ Number of Spans3 $\rightarrow$ Out $\leftrightarrow$ Out Width*75.5ft $\rightarrow$ Bridge Railing Type42" Defl Type Para (NJ Shape) $\rightarrow$ Curb $\leftrightarrow$ Curb Width72.5ft $\rightarrow$ Overall Length105ft $\rightarrow$	Year Built	Year Built 1970	Eligib	ole for National Historic	Register No		
Feature IntersectedFRENCH CREEK $\rightarrow$ SameDesign LoadingHS25 or greater $\rightarrow$ SameNumber of Spans3 $\rightarrow$ SameOut $\leftrightarrow$ Out Width*75.5ft $\rightarrow$ SameBridge Railing Type42" Defl Type Para (NJ Shape) $\rightarrow$ SameCurb $\leftrightarrow$ Curb Width72.5ft $\rightarrow$ SameOverall Length105ft $\rightarrow$ Same	Structure Type*	cture Type* Concrete co	ontinuous/Slab	Proposed			
Design LoadingHS25 or greater $\rightarrow$ SameNumber of Spans3 $\rightarrow$ SameOut $\leftrightarrow$ Out Width*75.5ft $\rightarrow$ SameBridge Railing Type42" Defl Type Para (NJ Shape) $\rightarrow$ SameCurb $\leftrightarrow$ Curb Width72.5ft $\rightarrow$ SameOverall Length105ft $\rightarrow$ Same	Structure File No.*	re File No.* 4704983	→ →				
Number of Spans3 $\rightarrow$ SameOut $\leftrightarrow$ Out Width*75.5ft $\rightarrow$ SameBridge Railing Type42" Defl Type Para (NJ Shape) $\rightarrow$ SameCurb $\leftrightarrow$ Curb Width72.5ft $\rightarrow$ SameOverall Length105ft $\rightarrow$ Same	Feature Intersected	Intersected FRENCH CREEK	; →	Same			
Out $\leftrightarrow$ Out Width*75.5ft $\rightarrow$ SameBridge Railing Type42" Defl Type Para (NJ Shape) $\rightarrow$ SameCurb $\leftrightarrow$ Curb Width72.5ft $\rightarrow$ SameOverall Length105ft $\rightarrow$ Same	Design Loading	ign Loading HS25 or greate	r →	Same			
Bridge Railing Type42" Defl Type Para (NJ Shape) $\rightarrow$ SameCurb $\leftrightarrow$ Curb Width72.5ft $\rightarrow$ SameOverall Length105ft $\rightarrow$ Same	Number of Spans	er of Spans 3	→ →	Same			
Curb⇔Curb Width72.5ft →SameOverall Length105ft →Same	Out↔Out Width*	Out Width* 75.5	ft →	Same	ft		
Overall Length 105 ft → Same	Bridge Railing Type	tailing Type 42" Defl Type Para (N.	J Shape) $\rightarrow$	Same			
	Curb⇔Curb Width	Curb Width 72.5	ft →	Same	ft		
Approach Slab Len 25 ft Same	Overall Length	erall Length 105	ft →	Same	ft		
	Approach Slab Len	ch Slab Len 25	ft	Same			
Vertical Clearance ft → Same	Vertical Clearance	l Clearance	ft →	Same	ft		
Horiz. Clearance ft → Same	Horiz. Clearance	. Clearance	ft →	Same	ft		
Wearing Surf Type Super Plasticized → Same	Wearing Surf Type	g Surf Type Super Plasticize	d →	Same			
Wearing Surf Thick 1 in → Same	Wearing Surf Thick	g Surf Thick 1	in →	Same	in		

Why Seal deck and approach slabs with SRS BTAs - Leading Ends - Type 1; Trailing E

BTAs - Leading Ends - Type 1; Trailing End Outside - Type 2; Trailing End Inside - None

Pr	oject Scope	e pid 1	07714	Project Name	LOR IR 0090 10.76	
Dra	ainage					1.2.C.G
Drainage	Replace all Verify any scope form Post constr area + 10 a maintenan Underdrain Verify CB s not be in s CFN 19877	n. Fuction BMPs need acres for biorete ace agreements as along entire p pacing and place ame location as	at needs don eded on OTP ntion cells o with cities a roject ement. Due existing CB. 2, 12" HDPE	e See attach connector and on OTP connecto along IR 90 to removing m storm sewer, G	ed culvert work sheets at the end of on IR 90. Treatment to be approx 24 or. ODOT to maintain BMPs due to ounded median, proposed CB locatio GA=6. Due to a recent remote inspect	this 0% of ns may
Ge	otechnical				1.2.C.B, 2.3.H.C, 2.5.E, 2.7.	D-E, 3.3.K.A
					R/W Required	No
<del></del>	CRS	LOR-90-10.7	76		Survey Required	Yes
Geotech Site 1 of	Proposed Work	Pavement Replacemen Widening	t /		Soil Borings Required	Yes
ech	Geohazard Type				Utility Relocation Required	Maybe
ieot	MOT Type	Select			Driveway Accomodation Required	No
U		pavement desig	n. Geotech echnical del	nical investigat iverables to be	mine need for global stabilization an ion to be included with the design-bu completed by 6/1/2023 through the nt (S&ME)	uild
		Geotechnical e	xploration a	lso needed for i	noise barrier foundation locations.	

Pr	ojec	t Scope	PID	10771	4	Project Name		LOR IR 0090 10.76		
Pav	vemen	t Overvi	ew					2.3.B.A-J, 2.7.A.A-	L, 3.3.A.A-J	
-	nment			2.3.B.C, 2.7.						
E	xplain		Design Build	d Team to	/erify	the existin	ıg alignment	t meets interstate standards		
	Profile	Use Ex	kisting	2.3.B.C, 2.7.	A.F, 3.3	3.A.E				
E	xplain		-	ild Team to	o verij	fy the exist	ing profile r	meets interstate standards		
								Describe		
			veway Acco			lo es Casti	nga ta ba ra	placed		
Pay	vemen		just Casting	s to Grade	I	es Casti	ngs to be re	placed	2.7.G.C	
- u	CRS		90-(10.76-1	3.171)				Vibratory Roller Permitted	Yes	
ţ	мот		rier	Existing		Proposed		Use Simplified Pav't Design	No	
gme	Maii	nline Treat	ment Type	Composite	$\rightarrow$	Asphalt		Pav't Cores Required	Yes	
t Se	Shou	ılder Treat	ment Type	Asphalt	$\rightarrow$	Asphalt		Pav't Cores Taken	Yes	
Pavement Segment	F	Paved Shou	lder Width		$\rightarrow$	10' out,	ft	Survey Required	Yes	
Iven			147 141	in	、	12' in	<i>c</i> .			
P.			ane Width		$\rightarrow$	12 0.0156	ft ft /ft	R/W Required Curbs Present	No No	
		, i	Cross Slope Proposi	ed Grading		0.0156	11/11	Safety Edge	No	
				Pav't Treat			100 - New F	lexible Pavement	110	
		Comments	•					uperelevated sections. Follow	v design	
								, oss slopes, superelevation, et		
				-				do the life cycle cost analysis		
			pavement i	replacemer	nt and	approve tl	ne pavement	t design.		
			Verify eme	ergency u-tu	ırn lo	cations and	reconstruct	t u-turn locations		
								an cross section to be installe		
	widening into the median and C.O. recommendation to not have mounded medians any longer (no longer standard design). The turnpike connector section will not be widened									
	and there will not be mound removal in that area.									
	Planning study being done to evaluate the lane configuration at the SR 2 / IR 90 interchange.									
			RM project	will need	to be	completed	prior to the	e major rehab project.		
			SR 57 ramp	o pavement	- rec	onstructed	full depth v	vith PID 82645		

				Duritant									
Pr	roject Scope PID	10771	4	Project Name		LOR IR	0090	) 10.76					
2	CRS LOR-IR90-(13.171	-13.57)				Vibratory	Roller	Permitted	íes 🛛				
Pavement Segment	MOT Select	Existing		Proposed		Use Simpli	fied P	av't Design	No				
gĩ	Mainline Treatment Type	Asphalt	$\rightarrow$	Asphalt		Pav	t Core	s Required	(es				
r Se	Shoulder Treatment Type	Asphalt	$\rightarrow$	Asphalt		Р	av't C	ores Taken	/es				
lent	Paved Shoulder Width		$\rightarrow$	same	ft		Surve	y Required	(es				
/em		12' in											
Pa	Lane Width		<i>&gt;</i>	12	ft				No				
	Cross Slope		_→	0.0156	ft/ft				No				
	-	ed Grading							No				
		Pav't Treat				C Overlay with Re	epairs						
	Comments Resurface	with mainte	aining	the existin	ig cros	s slope.							
	RM project will need to be completed prior to the major rehab project.												
	RM project will need to be completed prior to the major reliab project.												
	Retween	R 57 hridae	and V	Nest River I	hridae	,							
	Between SR 57 bridge and West River bridge												
m	CRS LOR-IR90-(13.57-								íes 🛛				
Pavement Segment	MOT Select	Existing	_	Proposed				•	No				
gm	Mainline Treatment Type	-	<i>&gt;</i>	Asphalt					(es				
t Se	Shoulder Treatment Type		→ ``	Asphalt					ſes				
nen	Paved Shoulder Width	,	$\rightarrow$		ft		Surve	y Required 、	(es				
ven		in	_	12' in									
Ра	Lane Width		<i>&gt;</i>	12	ft				No				
	Cross Slope		$\rightarrow$	0.0156	ft/ft				No				
	-	ed Grading						, ,	No				
	•	Pav't Treat				New Flexible Pave							
	Comments Mainline c					non-superetevate ler cross slopes, s			sign				
		-				.O. still needs to	-						
	_			-		approve the pave							
	anatysis je	r ene paren	iene i	eptacemen	c and	approve the puve	meme	acoigin					
	SR 254 int	erchange to	be re	constructe	d with	hthis project. Fu	ll dep	th concrete to l	ъе				
		-				oncrete pavement	-						
	Mounded I	nedian to b	e rem	oved and n	ormal	median cross sec	tion t	o be installed d	ue to				
	_				comme	endation to not h	ave m	ounded median	s any				
	longer (no	longer a st	andar	d design).									
	0		, .				<b>CD (</b>						
		tuay being d	ione t	o evaluate	poter	ntial need to wide	יח איז חי	254 interchange					
	ramps.												
	RM projec	t will need i	to be	completed	prior	to the major reh	ab pro	viect.					
					<i>pc</i> .		p. c	<i></i>					
Ba	rrier							Rec	uired?				
-	CRS LOR-90	МОТ Туре		Barrier		Speed Limit	70	R/W	/ No				
1 of	Barrier Inside Face to			ft.		Repl. Guardrail	Yes	Survey					
Barrier 1 of	Desc. Replace all guardrail		ct. Ve	erify Length	n of	Repl. End Term.		Soil Boring					
arri	Need for guardrail ru						Yes		No				
8	Install median cable h			-									
	Guardrail needed at o	-				Include BTAs	Yes	Utility Reloc	No				
	Noise wall shall be in		•	ject. Loca	tions		res		NO				
	will be selected based Include quantity of R		-	anairod and		Clearzone		Legislatior	1				
				-			No	20515(010)	No				
	replaced if some small sections are damaged.												

	DIP	107714	Project Name	LOR IR 0090 10.76				
Safety Crash Analysis				1.2.C.	.G, 1.3.B, 2.7.G.D, 2.1.A.D			
Do the project limits include:				Crash Analysis Years:	2017-2020			
High priority (red) location	n(s)	Yes		Fatal Crash Frequency	0.06 crashes/yr/mi			
Low priority (blue) locatio	n(s)	Yes		Total Crash Frequency	17 crashes/mi/yr			
Crash pattern(s) of inter	rest	Yes		Injury Crash Frequency	4.18 crashes/mi/yr			

Urban Freeway: #949 SLM 18.82-18.92 (Blue), #1023 SLM 13.162-13.262 (Blue), #1262 SLM 19.34-19.44 (Blue), #1270 SLM 12.16-12.26 (Blue), #1271 SLM 13.1-13.2 (Blue), #1325 SLM 16.33-16.43 (Red), #1691 SLM 12.35-12.45 (Blue), #1703 SLM 18.28-18.38 (Blue), #2290 SLM 16.93-17.03 (Blue)

From 2017-2020, there were 571 crashes along I-90 (SLM 10.76 - 18.61) and SR 2 (SLM 10.71 - 11.23): 2 fatal, 140 injury, and 429 PDO. There were 204 rear end, 151 sideswipe-passing, 91 fixed object, 59 animal, 36 other object, 9 other non-collision, 5 head on, 5 parked vehicle, 5 overturning, and 3 backing, and 3 pedestrian crashes. 74% occurred on dry pavement, 19% on wet, and 7% snow/ice/slush/sand/other. 24 crashes had alcohol and/or drugs suspected.

Over representation of rear-end and sideswipe crashes that indicates congestion issues.

A TSMO Study, including crash data review, was completed the end of October 2021 by HDR Engineering and recommended the following: Freeway Service Patrol, Dynamic Message Signs (DMS), and 6-lane widening.

Countermeasures

Crashes

-	The project location does not have a documented safety priority or crash pattern.	
*See Below	The High Priority SIP Map location(s) are addressed by this project with the above proposed counter measures.	S
-	effective. Describe why the countermeasures are not practical and/or cost effective (may include but not limited to financial, R/W, env., etc.) in the box below.	if (A) is YES
-		Applicable it
-	It is not practical to implement the proposed countermeasures with this project. The safety countermeasures have been given to the DSRT for follow-up as a potential standalone project.	/ Appli
-	This project is an ODOT Let Local Project. It is not practical to implement the potential countermeasures into the project. The local agency has been made aware of the possibility to request funding for a separate safety project.	Only
-	This project is an ODOT Let Local Project. The local agency declined to implement proposed safety countermeasures.	

NOACA has approved the widening recommendation to make this route a 6 lane facility.

	ject Scope 🛛 🕫	10771	4	Project Name	LOR IR 0090 10.76					
Traf	fic Control			1.2.C.E, 2.3	B.E.C-D, 2.7.A.P, 2.7.G.F, 2.7.K, 3.3.D.A	-C, 4.2.B.A-E				
20	Long Line Pavement	Marking Type	Recessed	Wet Reflectiv	Lane Separator	No				
Striping	Auxiliary Pavement	Marking Type	The	rmoplastic	Delineators	No				
Sti	Bridge Deck	Bridge Deck Marking Type			Replace RPMs	Yes				
les	Edge Line Ru	Imble Stripes	No		Blue RPMs for Fire Hydrants	Maybe				
a de	F	Rumble Strips	Yes	P	ermanent Traffic Count Station	No				
Ru	Centerline Ru	Imble Stripes	No		No					
	Transverse F	Rumble Strips	Yes		No					

Bridge Deck Marking will be epoxy wet reflective.

Comments

Outside shoulder rumble strips to be offset 3' from the edge line. If inside shoulder width increased to 10', also offset rumble strips 3' from inside edge line

New overhead sign trusses required due to widening pavement. Could possibly re-use extrusheet signs based on condition and age.

Replace the transverse rumble strips at the OTP WB connector. These will need to be maintained during construction as well.

Tree cutting to be performed prior to sign replacement.

Cable rail to be installed due to removing the existing mounded median and widening to inside.

Evaluate need for outside shoulder signs to be placed on cantilever supports.

Digital Message Sign boards 2WB, 1EB to be included. Locations will be determined during design

Ma	aintenance of Tr	affic (MC	DT)				2.7.J.A-D, 3.3.B.F,	3.3.C, 3.3.E
6	МОТ Туре	Lane Re	striction	Feature	 ruction / ening	Coor	dination Needed	Yes
of	CRS	LOF	R-90	Duration	(Days)	N	unicipality	
Ē						Work 2	Zone Speed Zone	Yes
ltem	Disincentive	Lane C	Closure		(Amt.)	Permit	ted Lane Closure	Yes
MOT	MOT Exception	Maybe			(Desc.)		LEO No. of Hours	
×	Conflict		Desci	ription	Route Dat		Dates to A	void

TSMO study completed prior to scoping this project. 2 - 11' lanes in each direction shall be maintained except OTP connector where 1 lane in each direction shall be maintained. Adhere to permitted lane closure charts during construction. MOT transistion areas at the beginning and end of the project shall be resurfaced. An allowance for pavement repairs shall be included. MOTAA with multiple alternatives required per roadway engineering

6	MOT Type	Bar	rier	Feature Reco		truction	Coordination Needed	No
ď	CRS	SR 254	Ramps	Duration		(Days)	Municipality	
n 2							Work Zone Speed Zone	Yes
ltem	Disincentive	No	ne			(Amt.)	Permitted Lane Closure	Yes
MOT	MOT Exception	Maybe				(Desc.)	LEO No. of Hours	
ž	Conflict		Descr	ription		Rou	ute Dates to Av	void
S	Maintain one lane o	of traffic o	n each of th	ne SR 254 inte	erchange i	ramps dur	ring construction in order	to avoid

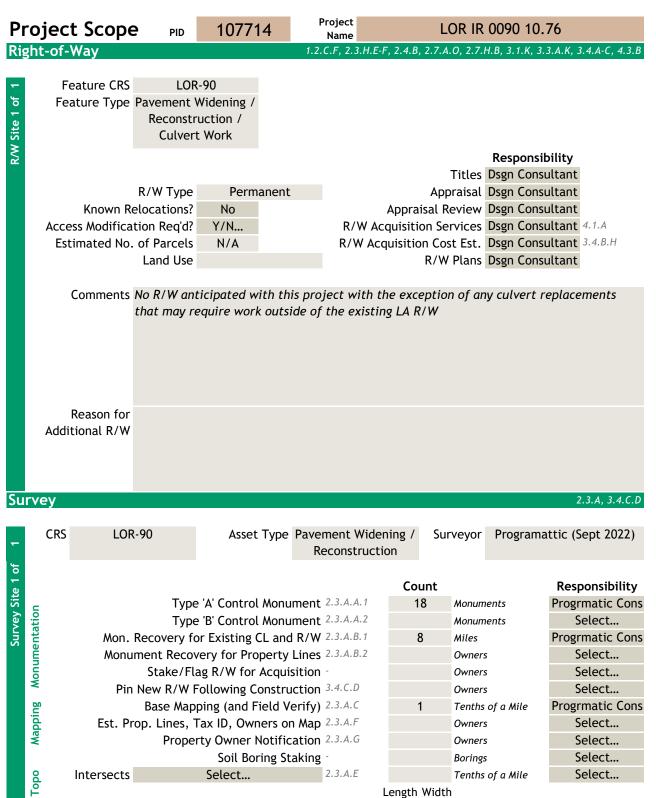
Maintain one lane of traffic on each of the SR 254 interchange ramps during construction in order to avoid detouring ramp traffic. These ramps will be constructed part width using full depth concrete. Due to proposed drop off, portable barrier to be used along ramps during construction. Short term closures will be permitted if needed, see separate detour MOT sections for specific detour routes.

Project Scope			PID	10771	4 P	roject Name		LOR IR	0090 10.76					
-	· · <b>,</b> · · · · · ·	- F -				Hame								
¢			Lane Restriction		Feature Vanda		l Fence		rdination Needed	No				
10T 14 cm 2 cf	5	CRS	SR 254 M	Mainline	Duration		(Days)		Aunicipality					
	Disinger		N-				(Amt)		k Zone Speed Zone Maybe					
F	Disince MOT Excer		No No	ne			(Amt.) Perm (Desc.)		ted Lane Closure LEO No. of Hours	No				
S	Conflict		no	Descr	iption		Rou		Dates to A	void				
					· · · · ·									
t t	While vandal	While vandal protection fence is installed on the SR 254 over IR 90 bridge, the outside lane in each direction will be closed. Traffic shall be moved to adjacent lanes in each direction. One direction can be closed at a												
( commonte	time to minin	time to minimize the effect on traffic in this area.												
Ċ														
		Turne	Det		Faatura	Decene	truction	Cas	rdination Noodad	Ver				
9			Det	our Connector	Feature Duration	Recons 90	truction (Days)		rdination Needed Aunicipality	d Yes				
					Duration	90	(Days)	Work	Yes					
	Disince	ntive	Road C			(Amt.)		ted Lane Closure	Yes					
ADT HOM 4 06	MOT Exce	MOT Exception Yes Long Term				ystem	(Desc.)		LEO No. of Hours					
2	E			ramp										
	Conflict	Conflict Description							Dates to Avoid					
	Dotour IP 90 \	MR con	postor to	turppikow	hilo work is	boing porf	ormod on		undor IP 90 duo 1	to not				
	Detour IR 90 WB connector to turnpike while work is being performed on SR 2 EB under IR 90 due to not being able to maintain 2 lanes of traffic. The proposed detour will be SR 57 SB to the Turnpike. This													
		closure shall be for 90 days to complete work. MOTEC was approved with the following information												
	provided:													
		Per MOTEC Request: A Work Zone Queue Detection Warning System has been requested in order to mitigate												
		queueing, this is in accordance with TEM Section 642-57. Please ensure that the plans include Plan Note 642- 32 Approved Maintenance of Traffic (MOT) Policy and Plan Note 642-57 Work Zone Queue Detection Warning												
	System.													
( amonto														
l	Notifications	Notifications During Closure Required												
	changes.	A designated on-site point of contact should communicate with the TMC as the status of the closure												
	changes.													
	Contact the TMC:													
	If the closure is postponed or cancelled													
	At the time the closure is implemented													
		At the time the closure is removed and all lanes restored If the closure will not be opening on time												
	in the closure	witt no	t be open	ing on third										
0	мот .	Туре	Det	our	Feature	Recons	truction	Coo	rdination Needed	Yes				
3	5	CRS	Murray Ridge Rd		Duration	60	(Days)		Aunicipality					
							<i></i>		Zone Speed Zone	No				
	Disince		Road Closure No				(Amt.) (Desc.)		ted Lane Closure LEO No. of Hours	No				
ġ	MOT Excep Conflict		NO	Descr	ription		(Desc.) Rou		Dates to A	void				
	connec			Deser					Dates to A					
4	Murray Ridge			-					in order to avoid					
Commonte	with motorist		with motorists using Murray Ridge Rd. Proposed Detour is: SR 113 to West Ridge Rd to Middle Ridge Rd to											
	North Ridge Rd to Lake Ave. This will be the detour for both directions.													

_			Project				LOR IR 0090 10.76							
Pr	oject Scope	PID	10771	4		Name	L	OR IR	0090	J 10.7	/6			
6	MOT Type	Det	our	Feature		LOR-90 EB	to SR 254	Coor	dinat	ion Ne	eded	Yes		
	656	60.05				exit ramp	(D)							
MOT Item 6 of	CRS	SR 254	Duration 14		14	(Days)	Municipality Elyria/Sheff / Avon							
TIte	<b>D</b>					6500 (I		Work 2		•		Yes		
NO N	Disincentive MOT Exception			\$500/hr			(Amt.) (Desc.)	Permit				Yes		
	Conflict	NO	Description				Rout	LEO No. of Hours ute Dates to Avoid						
Lomme nts	Proposed detour: C	ontinue on	IR 90 EB, f	lip at S	R 61	1, take IR 9	0 WB back	to SR 2	254 in	tercha	ange.			
6	МОТ Туре	Det	tour Feature SR en			SR 254 to I entrance r		Coor	dinat	eded	Yes			
MOT Item 7 of	CRS	SR 254	ramps	Duration		14	(Days)	N	unici	pality	/Sheffield n			
Iter								Work 2	Zone S	Speed	Zone	Yes		
AOT			Closure		\$50	0,hr		Permit			Yes			
	MOT Exception	No	Deer	i			(Desc.)		LEO N	lo. of l		vala		
	Conflict		Descr	iption			Rout	e		Date	s to A	v010		
Lomme nts	Proposed detour: C	continue on	SR 254 EB,	take S	R 61	1 WB to IR	90 intercha	inge						
6	МОТ Туре	Det	our	Feature Duration		LOR-90 WE exit ramp	to SR 254	Coor	dinat	eded	Yes			
MOT Item 8 of	CRS	SR 254	ramps			14	(Days)			/Sheffield n				
Tite	<b>-</b>						Work 2	•		Yes				
.OW	Disincentive MOT Exception	Road ( No	Closure		\$500	)/hr	(Amt.) (Desc.)	Permit		ane Cl Io. of I				
	Conflict	INU	Descr	cription			(Desc.) Rout				es to Avoid			
Comme nts	Proposed detour: C	ontinue on	IR 90 WB, 1	flip at S	SR 57	' interchan	ge, take IR	90 EB 1	to SR	254 in	tercha	ange		
6						SR 254 to I entrance r		rdination Needed			Yes			
MOT Item 9 of						14	Municipality Elyr / Av				on			
T It	Disingention	Dood	Road Closure			)/br	(Amt.)		Work Zone Speed Zo Permitted Lane Closu			Yes		
WO	Disincentive MOT Exception			\$500/hr		J/11	(AIIIL.) (Desc.)	LEO No. of				Yes		
	Conflict	110	Descri								ites to Avoid			
comme nts	Proposed detour: Take SR 254 to SR 57 SB, enter IR 90 WB from SR 57 interchange													
	sign Designatio	n				Opening	Year: 2	027	De	esign \	(ear:	2047		
				Openi	ing			%	%	%	%	Traffic		
	CRS		Speed Limit	ADT		Design ADT		K	D	T24	TD	Forecast		
	SR 2, SLM 10.71-11.23 IR 90, SLM 10.76-11.97 IR 90, SLM 11-97-13.22 IR 90, SLM 13.22-15.65 IR 90, SLM 15.65-18.61		65 56000 65 16500		61000	6,100	10	52		6	Cert Traf			
			65 65	65 72000		21000 82000	1,900 8,200	9 10			30 13	Cert Traf Cert Traf		
			65 64500		73500	7,400			14	13	Cert Traf			
			65	6900		78500	7,900	10	52	14	11	Cert Traf		
Pro	oject Classificat													
	CRS	Federal Aid System				nctional Cla		Urbanized Area						
	LOR-90-10.76 to		Interstate			Freeway / Expressway Freeway / Expressway				Lorain-Elyria				
	LOR-90-17.84 to	Inter	state		Fr	ay	Cleveland							

			107714	Project Name									
	nvironmental												
Environ. Category Code Responsibility													
	$C^{2}$	I	In-House										
	LΖ	Т	OES Task Order	6									
	Environmental PM C Consultant Services			LOR-90									
	WINGLER, LEVI B - Not Applicable												
Iral	Section 106 - Scoping	I	• • •	• • •	• • •	• • •	•••	• • •	• • •	• • •	• • •		
Cultural	Phase 1 Hist./Arch.	• • •	• • •	• • •	• • •	• • •	•••	• • •	• • •	• • •	• • •		
ບັ	Phase 1 Arch. Survey	• • •	• • •	• • •	• • •	• • •	• • •	• • •	• • •	• • •	• • •		
S	Determination Reque	• • •	• • •	• • •	• • •	• • •	• • •	• • •	• • •	• • •	• • •		
Forms	Individual Section 4(	• • •	• • •	• • •	• • •	• • •	• • •	• • •	• • •	• • •	• • •		
<u> </u>	Section 6(f) Docume			• • •	• • •	• • •	• • •	• • •	• • •	• • •	• • •	• • •	• • •
Š	Ecological Exempt Fo	• • •	• • •	• • •	• • •	• • •	• • •	• • •	• • •	• • •	• • •		
Ecology	Level 1 Ecological Su	1	• • •	• • •	• • •	• • •	• • •	• • •	• • •	• • •	• • •		
Щ	UNIONID Mussel Survey Report 3.1.Q				• • •	• • •	• • •	• • •	• • •	• • •	• • •	• • •	• • •
	Sole Source Aquifer Coordination				• • •	• • •	• • •	• • •	• • •	• • •	• • •	• • •	• • •
	Farmland Conversion	• • •	• • •	• • •	• • •	• • •	• • •	• • •	• • •	• • •	• • •		
	Permit Determination Request Package 3.1.M.A-B				• • •	• • •	• • •	• • •	• • •	• • •	• • •	• • •	• • •
	Concp. Stream/Wetl	• • •	• • •	• • •	• • •	• • •	• • •	• • •	• • •	• • •	• • •		
nits	Section 404/401 App	• • •	• • •	• • •	• • •	• • •	• • •	• • •	• • •	• • •	• • •		
eru	USACE Pre-Constr. Notification (PCN) Applications				• • •	• • •	• • •	• • •	• • •				
<b>Waterway Permits</b>	Ohio EPA Isol. Wetland Permit Pre-Act. Notif. (PAN)				• • •	• • •	• • •	• • •	• • •				
Ma	Coastguard Section 9	• • •	• • •	• • •	• • •	• • •	• • •				• • •		
Iter	ACOE Section 10 Per	• • •	• • •	• • •	• • •	• • •	• • •				• • •		
Ň	Floodplain Permit Application				• • •	• • •	• • •	• • •	• • •				• • •
	Floodplain Coordination				• • •	• • •	• • •	• • •	• • •	• • •			
	Coastal Waterway Permit			• • •	• • •	• • •	• • •	• • •	• • •	• • •			
	Regulated Mat. Revie			1	• • •	• • •	• • •	• • •	• • •				• • •
Site	Phase 1 Env. Site Ass	sess. Rpt.	(If Auth.) 2.2.1, 3.7.A	• • •	• • •	• • •	• • •	• • •	• • •				• • •
	Asbestos Survey/Inspection				• • •	• • •	• • •		• • •				
	Ozone Analysis 3.1.P			• • •	• • •	• • •	• • •		• • •			• • •	
Air	MSAT Analysis			I	• • •	• • •	• • •		• • •			• • •	
	PM 2.5 Analysis				• • •	• • •	• • •		• • •			• • •	
Noise	Traffic Noise Analysi	s Report	2.2.G	I	• • •	• • •		• • •	• • •				
	Noise Barrier Public	Noise Barrier Public Involvement Summary 2.2.H			•••	• • •	• • •	• • •	• • •	•••	• • •	• • •	
	Public Involvement F	Plan 1.4.A,	2.1.A.J	• • •	•••	• • •	• • •	• • •	• • •	•••	• • •	• • •	
Slic		Public Meeting Activities 2.6.A				• • •	• • •	• • •	• • •	•••	• • •	• • •	
Public	Public Announce. (w	ebpage, a	article, news release)	1	• • •	• • •	• • •	• • •	• • •	•••	•••	• • •	• • •
	Underserved Populat	ion Outre	each 2.2.E, 3.1.G	•••	•••	•••	•••			• • •			

Any Known Env. Concerns (ex. historic properties on Nat. Reg., wetlands, underground storage tanks, stream reloc.)



Survey deliverables to be obtained from September, 2021 programmatic consultant. Survey for 4 bridge rehabilitations over roadway included in survey as well.

Select...

Topo for

Comments

2.3.A.D

Select...

Tenths of a Mile

Pr	oject	t Scope	PID	10771	4	Project Name	LOR IR 009	90 10.	76		
Uti	ilities					1.2.C.B,	2.3.G.A-B, 2.4.C, 2.7.C.A-D, 2.7	7.H.C, 3.	3.J.A-D	, 3.8.C,	4.3.D
Utilities 1 of 1		Location Asset Nam	Pavem ne of Utili	LOR-90 ent Replact	ement	Locati	on/Description	Buried	Aerial	SUE Needed?	R/W Needed?
Uti	Power	Ohio Edis	son Transr	nission				No	Yes	No	No
	Power	Oł	nio Edison					No	Yes	No	No
	Power	Cleveland E	lectric Illı (CEI)	uminating				No	Yes	No	No
	Phone		Lumen					Maybe	Maybe	Maybe	No
	Phone	1	Charter					Maybe	Maybe	Maybe	No
	Gas	Columb	oia Gas of	Ohio				Yes	No	Yes	No
	Cable		Charter					Yes	No	Yes	No
	Water	Village	e of Sheff	ield				Yes	No	Yes	No
	Water	Rural Lora	ain County	/ Water				Yes	No	Yes	No
	Water	Cit	y of Elyria	ì				Yes	No	Yes	No
	Comm.	Wi	indstream					Yes	No	Yes	No

Comments

Project	Scope	PID	107714	Project Name	LOR IR 0090 10.76	
Coordinati	on					
-	2.7.G.A, 4.2.		Yes	22562245	2.7.F.C, 2.7.G.E, 3.1.L, 4.2.D.A Railroad	Yes
Coord.	Z.7.G.A, 4.Z.			Z.3.E.C, Z.3.H.F,		
8		Detour	Yes		Floodplain	Yes
Ŭ				Bike	Route or Trail within Project Limits	No
5		Coord	ination needed	with NOACA. Air	Quality Conformance	
Comments		Conse	ent Legislation r	needed for Flyria	, Avon, and Sheffield.	
Ĕ			-	•	· · · · ·	
E		Local De	tour Maintenand	ce Agreement nee	eded for Murray Ridge Rd	
Ŭ						

### **Project Schedule**

	Date		Date
Field Review Date	7/11/2022	Stage 2 Plans - Complete	-
Initial Scope Meeting Date	7/19/2022	Preliminary R/W Plans - Submit	
Initial Project Scope Complete	8/31/2022	Final R/W Plans - Submit	
Programmatic Date	5/9/2022	R/W Authorized	
Feasibilty Study Complete		Stage 3 Plans - Complete	-
Preferred Alternative Approval		Environmental Doc. Approved	10/1/2023
Feasibilty Study Approved		District R/W Certification	-
Survey Deliverables Complete		R/W Acquisition Complete	
Begin In-House Detailed Design	-	Tracings Complete	-
Preliminary Engineering Study - Submit			
NEPA Start Date		Plan Package Received in C.O.	2/19/2024
Authorized Design Consultant	-	Sale Date	7/1/2024
Stage 1 Plans - Complete	-	Award Date	7/1/2024
Waterway Permit Determination - Submit		Estimated Begin Construction	3/25/2025
404/401 Permits		Estimated End Construction	7/1/2027

Comments This is the draft scope. The final scope for this design build project will be put together by the design section.

	-	t Scope	PID	107714	Project Name		LC	R IR 0090	) 10.76
Fι	unding						1.1.A, 1.	5.B, 2.4.A-B,	2.7.H.A-C, 3.8.A-C, 4.3.A-D
	Ę				Fund	ing Source	e Fundi	ng Source	
Split /	Priority				Sc	ource 1	So	urce 2	
Spl	Pri	Name		Plan Split Co	de %	Fund	%	Fund	Cost
1	/ 1	CO CO Contr	- 01	01/IMS/PV	10	4PS7	90	4PF7	\$8,400,000.00
	Descr:	Pavement Replo	acemen	t on IR-90. Disti	rict Allocatio	on			
2	/ 1	CO CO Contr	- 02	01/IMS/PV	10	4RA7	90	4RC7	\$69,000,000.00
	Descr:	Pavement Replo	acemen	t on IR-90. Majo	or Rehab fun	ding			
3	/ 3	CO CO Contr	- 03	02/IMS/PV	10	4PS7	90	4PF7	\$500,000.00
	Descr:	Resurfacing por	tion of	IR-90					
4	/ 1	CO CO Contr	04	03/IMS/BR	10	4PS7	90	4PF7	\$1,800,000.00
	Descr:	Bridge deck rep	laceme	ents - This plan s	plit will be i	removed a	nd a tot	al of \$2.9n:	nillion will be moved
		into major reho additional majo	•	ing once a cost e b funding	stimate incr	ease is su	bmitted	to C.O for	approval for
5	/ 5	CO CO Contr	- 05	04/SAE/OT	100	4SN7			\$800,000.00
	Descr:	Safety Funding	for Dig	ital Message Sigr	ns (DMS)				

Preliminary Engineering Estimate	\$15,632.00
Preliminary Engineering - Geotech	\$339,917.00
Preliminary Engineering - Noise Wall Study	\$111,787.00
Preliminary Engineering - Survey	\$162,471.00
Detailed Design Estimate - Major Funds	\$4,949,000.00
Detailed Design Estimate - District Funds - Resurfacing	\$51,000.00
Detailed Design Estimate - District Funds - Bridge	\$300,000.00
Construction Estimate	\$80,500,000.00

A revised cost estimate will be submitted to C.O as a request for additional major rehab funding

	roject Scope	PID	107714	Project Name	LOR IR	0090 10.76
Fie	eld Review					
Attendees	Mike S., Jake V.,		., Adam M., L W., Steve J.,		: O., Sarah H.,	<b>7/11/2022</b>
Notes	sers\mstrohm\appdat					

Project Scope	PID	107714	Project Name	LOR IR 0090 10.76
Narrative				

Document the decision process here. Why were certain treatments chosen? What was left out and why?

See Ground penetrating Radar report which shows average thickness of asphalt on top of the 9" reinforced concrete pavement. Asphalt thickness varies quite a bit from 4" to 6.5". Also see pavement coring report for additional information.

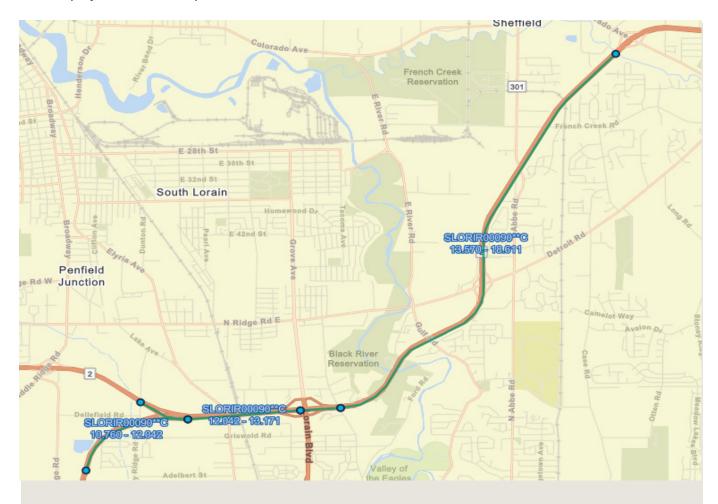
Project History:

Project 730457 LOR-90-9.48 to 12.31 New Construction Project 650524 LOR-90-11.90 to 13.20 New Construction Project 160576, PID 83449 LOR-90-13.20 New Construction Project 660173 LOR-90-13.01 to 17.40 New Construction Project 660781 LOR-90-17.21 to 19.94 New Construction Project 003015, PID 17891 LOR-90-10.76 Design Build Misc Bridge rehab/replacement projects PID 77447 LOR-90-12.4 3" 2 course overlay on SR 2 PID 25732 LOR-2-10.33 Full depth asphalt replacement with bridge replacement work on SR 2

Milestone	Date
*Begin DB Scope/Plan Review (allows 5 weeks of ODOT review	Turaday Navarka 7, 0000
and 2 weeks to revise)	Tuesday, November 7, 2023
*Plan Package Due to Office of Estimating (approx)	Tuesday, December 12, 2023
SOQ Phase	
Industry Outreach Meeting (Optional)	Thursday, November 30, 2023
Advertise RFQ	Thursday, December 14, 2023
Pre-SOQ Meeting (Optional)	Thursday, December 28, 2023
Deadline to submit RFQ questions	Thursday, December 28, 2023
ODOT will respond to RFQ questions	Thursday, January 4, 2024
SOQ submission	Thursday, January 11, 2024
First Day for individual Reviews Last Day for Individual Reviews	Sunday, January 14, 2024 Sunday, January 28, 2024
1st SOQ Scoring meeting	Monday, January 20, 2024 Monday, January 29, 2024
2nd SOQ Scoring meeting	Tuesday, January 30, 2024
3rd SOQ Scoring meeting (if needed)	Wednesday, January 31, 2024
Present to Executive Committee	Tuesday, February 6, 2024
Evaluation and recommendations complete	Thursday, February 8, 2024
Announce Shortlist	Tuesday, February 13, 2024
Shortlisted Teams must respond to advancing	Thursday, February 15, 2024
RFP/Tech Propos al Phase	
Request for Proposal Release	Tuesday, February 20, 2024
1st One-on-One ATC Meeting	Tuesday, March 12, 2024
2nd One-on-One ATC Meeting	Tuesday, March 26, 2024
3rd One-on-One ATC Meeting	N/A
Last day for ODOT to respond to ATC	Friday, April 5, 2024
PTI Information Submission	Thursday, May 9, 2024
PTI Meeting Date	Thursday, May 16, 2024
*Last day submitting questions/comments on Scope	Thursday, May 23, 2024
*Last recommended day for Addendum	Thursday, May 30, 2024
Final Tech Proposals & Price Due:	Thursday, June 13, 2024
Tech Proposal Scoring Complete	Monday, June 17, 2024
Scores Announced	Monday, July 1, 2024
Anticipated Award Date	Friday, July 12, 2024

Project Scope	PID	107714	Project Name	LOR IR 0090 10.76
Мар				

### See the project overview map below.



	PID	10771	4 Project Name	LOR IR	0090	J 10.	/6		
Signatures and Atter	ndance				Appr	oval	Field Visit	Scc Mee	
			Signature	Date	Approve	Disapprove	7/11/2022	7/19/2022	
Work Plan Coord.	Mike Schaj	frath	Mike Schafrath	10/18/2022	χ		-	-	-
ELLIS Coordinator	Jerry Sch	lett	jerry schlett	10/18/2022	x		-	-	-
Environmental PM	Levi B Win	ngler	Levi Wingler	10/18/2022	X		-	-	-
Bridge Engineer	Kent Kapu	ıstar	Kent A Kapustar	10/14/22	X		-	-	-
Planning Engineer	Scott Ockı	ınzzi	Scott R. Ochumyu	10/14/2022	Х		-	-	-
Design PM	Karla R Bol	hmer	Karla Bohmer	10/18/22	X		-	-	-
Roadway Engineer	Charlie Lau	ghrey	Charlie Laughrey	10/17/22	X		-	-	-
Traffic Engineer	Julie Cich	ello	Julie Cichello	10/14/2022	X		-	-	-
Survey Op. Mgr.	Scott Haw	<i>kins</i>	Scott Hawkins	10/19/2022	x		-	-	-
Utility Coordinator	John Schaj	frath	John Schafrath	10-18-22	Х		-	-	-
Real Estate Admin.	Brad Cor	der	B. Corder	10/18/22	Х		-	-	-
Design Engineer	Dustin Vou	ısden	Dustin J. Vousden	10/21/2022	X		-	-	-
Constr. Area Eng.	Luke T Wy	socki	Luke T. Wysocki	10/17/2022	X		-	-	-
Constr. Engineer	Mike Fa	ir	Mike Fair	10/18/2022	X		-	-	-
Cap. Prog. Admin.	Matt Wal	lter	Matt Walter	10/17/2022	Х		-	-	-
Rdwy. Serv. Mgr.	Kimberly Co	onklin					-	-	-
Hwy. Mgt. Admin.	Eric Shepp	oard	Eric Sheppard	10.19.2022	Х		-	-	-
County Manager	Steve Jaco	obcik	Steven Jacobcik	10/18/2022	χ		-	-	-
Attendee	Mark Stro	ohm	N/A	N/A	N/A	N/A	-	-	-

## PID 107714 LOR-90-10.76 Bridge Planning Level Estimate

	Pridge	D	eck Sealing Cost	F	Parapet Re- Sealing	cra	Parapet cking repair		Other		Pridge Total
- 1	Bridge	ć		ć	Jeaning			ć			Bridge Total
1	LOR-90-1157L	\$	-	\$	-	\$	-		1,500,000.00	\$	1,500,000.00
2	LOR-90-1157R	\$	-	\$	-	\$	-	•	1,400,000.00	\$	1,400,000.00
3	LOR-90-1178L	\$	-	\$	-	\$	-	\$	-	\$	-
4	LOR-90-1244L	\$	19,500.00	\$	11,500.00	\$	38,000.00	\$	-	\$	69,000.00
5	LOR-90-1244R	\$	18,700.00	\$	11,300.00	\$	30,500.00	\$	-	\$	60,500.00
6	LOR-90-1256L	\$	17,500.00	\$	10,500.00	\$	23,000.00	\$	-	\$	51,000.00
7	LOR-90-1256R	\$	17,500.00	\$	10,500.00	\$	23,000.00	\$	-	\$	51,000.00
8	LOR-90-1320L	\$	16,000.00	\$	-	\$	-	\$	-	\$	16,000.00
9	LOR-90-1320R	\$	16,000.00	\$	-	\$	-	\$	-	\$	16,000.00
10	LOR-90-1355L	\$	11,000.00	\$	-	\$	-	\$	-	\$	11,000.00
11	LOR-90-1355R	\$	11,000.00	\$	_	\$	-	\$	-	\$	11,000.00
12	LOR-90-1426L	\$	39,800.00	\$	22,200.00	\$	15,000.00	\$	10,000.00	\$	87,000.00
13	LOR-90-1426R	\$	39,800.00	\$	22,200.00	\$	12,000.00	\$	-	\$	74,000.00
14	LOR-90-1443L	\$	18,700.00	\$	10,000.00	\$	9,300.00	\$	-	\$	38,000.00
15	LOR-90-1443R	\$	21,300.00	\$	11,500.00	\$	19,200.00	\$	-	\$	52,000.00
16	LOR-90-1478	\$	_	\$	-	\$	-	\$	-	\$	-
17	LOR-90-1658	\$	-	\$	-	\$	-	\$	172,000.00	\$	172,000.00
18	LOR-90-1753	\$	_	\$	_	\$	_	\$	-	\$	-
19	LOR-90-1785R	\$	_	\$	_	\$	_	\$	_	\$	-
20	LOR-90-1785L	\$	_	\$	_	\$	_	\$	_	\$	-
21	LOR-90-1815	\$	_	\$	-	\$	_	\$	140,000.00	\$	140,000.00
22	LOR-90-1861L	\$	14,000.00	\$		\$	_	\$	-	\$	14,000.00
23	LOR-90-1861R	\$	11,000.00	\$	-	\$	_	\$	-	\$	11,000.00
24	LOR-254-0191	\$	-	\$		\$		\$	90,000.00	\$	90,000.00
24	LOR-301-2349	ې \$		ې \$		\$		ې \$	50,000.00	\$	50,000.00
25	1011-201-2043	ې	-	ڔ	-	ڊ ا	-	ې	-	Ş	-
	Total Ectimata	ć	271 200 00	\$	100 700 00	\$	170 000 00	ć	2 212 000 00	\$	2 962 500 00
	Total Estimate	Ş	271,800.00	Ş	109,700.00	Ş	170,000.00	Ş	3,312,000.00	Ş	3,863,500.00

	· _//	LOR-90-10,76	LOR-90-1157L S	11701200
	Date: //15/22	PID: 107714 Bridge No	LUIS-70-1157L S	FN: 4704398
	127-124110-2001-001-	(Chilin Hitt)	MIDURRINGIO	An and a state of the second
$\subseteq$	61. Bridge railing upgrade/repair		86. Abutment replacement/repair	The second se
$\leq$	87 Channel clean out 81 Channel drift removal		119 Approach (other) 102 Approach railing repair	-
$\sum$	143 Culvert Extension/Non-Bridge		101. Approach roadway profile correction	
$\succ$	120 Culvert Invert repair     144 Culvert Repair/Non-Bridge		100         Approach slab replacement/repair           63         Bridge light installation/repair	-
$\sim$	47 Deck and abutment seat cleaning		61 Bridge railing upgrade/repair	
$\subseteq$	46 Deck cathodic protection installation 40 Deck overlay(concrete)		10 Concrete patching (non-deck) 139 Culvert (other)	-
Z	43 Deck overlay(epoxy)		120 Culvert Invert repair	
í Ç	44 Deck overlay(other)		159 Culvert Other/Non-Bridge	
$\succ$	50 Deck patching (asphalt) 49 Deck patching (concrete)		20. Deck patching (asphait) 49 Deck patching (concrete)	
Z	51 Deck Sealing		59 Deck surface	
$\sim$	28 Drainage system cleaned/repaired 48 Expansion joint repair/replacement		62 Fence Installation/repair 80° Foundation stabilization	
$\simeq$	23 Fatigue retrofit		8 Movable.bridge(repair)	
2	20 Painting structural steel 24 Pin and Hanger retrofit		20 Painting structural steel 85 Pier replacement/repair	
$\sim$	103 Pressure relief joint installation		84 Plie encasement	
$\leq$	Raising-Bridge     83 Scour prevention and correction		103 Pressure relief joint installation Raising Bridge	
5	60 Sidewalk repair/replacement		60 Sidewalk repair/replacement	
$\sim$	82 Slope repair & protection installation		82 Slope repair & protection 22 Structure steel repair	_
$\succ$	52 Spall Removal 21 Spot painting structural steel		99 Substructure (other)	
S	88 Substructure Sealing		39 Superstructure (other)	
	il concentration	Sandru aussen in state and state	Alexardi kelalikatilar sasara	Gomments Web and Comments Web Ender The Andrew States
$\subseteq$	29 Backwall'replacement/repair			
0	25 Bearing recet/reniaced		122 - Culvert Linear Repair 141 - Culvert Replace/Non-Bridge	Replace Dock on Existin BRING W/ New
8	25 Bearing reset/replaced		141: Culvert Replace/Non-Bridge 4 Deck replacement	Replace Deck on Existing Berns W/ New
	25     Bearing reset/replaced       27     Bridge diapering installation       9     Collision damage		141:         Culvert Replace/Non-Bridge           4         Deck replacement           20:         Painting structural steel	Replace Deck on Existing Beins W/ New- Conposite deck-See seperate Scope
	25     Bearing reset/replaced       27     Bridge diapering installation       9     Collision damage       10     Concrete patching(non-deck)		141:     Culvert Replace/Non-Bridge       4     Deck replacement       20:     Painting structural steel       89     Semi-Integral Abutment Conversion	Replace Deck on Existing Beins W/ New Conposite deck-See seperate Scope
	25     Bearing reset/replaced       27     Bridge diapering installation       9     Collision damage       10     Concrete patching(non-deck)       42     Deck overlay(asphalt w waterproofing)       41     Deck overlay(asphaltic concrete)		141:         Culvert Replace/Non-Bridge           4         Deck replacement           20:         Painting structural steel	Replace Deck on Existing Beins W/ New Conposite deck-See seperate Scope
	25     Bearing reset/replaced       27     Bridge diapering installation       9     Collision damage       10     Concrete patching(non-deck)       42     Deck overlay(asphalt w waterproofing)       41     Deck overlay(asphaltic concrete)       50     Deck patching(asphalt)		141:     Culvert Replace/Non-Bridge       4     Deck replacement       20:     Painting structural steel       89     Semi-Integral Abutment Conversion       13:     Structure Removal	Replace Deck on Existing Beins W/ New Conposite deck-See seperate Scope
	25     Bearing reset/replaced       27     Bridge diapering installation       9     Collision damage       10     Concrete patching(non-deck)       42     Deck overlay(asphalit w waterproofing)       41     Deck overlay(asphalit concrete)       50     Deck patching(sophalt)       49     Deck patching(concrete)		141:       Culvert Replace/Non-Bridge         4       Deck replacement         20:       Painting structural steel         89       Semi-Integral Abutment Conversion         13:       Structure Removal         22:       Structure steel repair         121:       Tunnel liner Installation	Replace Deck on Existing Beins W/ New Conposite deck-See seperate Scope
	25       Bearing reset/replaced         27       Bridge diapering installation         9       Collision damage         10       Concrete patching(non-deck)         42       Deck overlay(asphalt w waterproofing)         41       Deck overlay(asphaltic concrete)         50       Deck patching(concrete)         49       Deck patching(concrete)         48       Expansion joint repair/replacement         6       Graffitiremoval		141:       Culvert Replace/Non-Bridge         4       Deck replacement         20:       Painting structural steel         89       Semi-Integral Abutment Conversion         13:       Structure Removal         22:       Structure steel repair         121:       Tunnel liner Installation         Integral Abutment Conversion         142:       Culvert New/Non-Bridge	
	25       Bearing reset/replaced         27       Bridge diapering installation         9       Collision damage         10       Concrete patching(non-deck)         42       Deck overlay(asphalit w waterproofing)         41       Deck overlay(asphalit concrete)         50       Deck patching(concrete)         48       Expansion joint repair/replacement         6       Graffitt removal         14       Heat Straightening-Under-Bridge Hit         26       Overhead concrete spall removal		141:       Culvert Replace/Non-Bridge         4       Deck replacement         20:       Painting structural steel         89       Semi-Integral Abutment Conversion         13:       Structure Removal         22:       Structure steel repair         121:       Tunnel liner Installation         142:       Culvert New/Non-Bridge         5:       Structure widening         1:       Structure widening	
	25       Bearing reset/replaced         27       Bridge diapering installation         9       Collision damage         10       Concrete patching(non-deck)         42       Deck overlay(asphalt w waterproofing)         41       Deck overlay(asphaltic concrete)         50       Deck patching(asphalt)         49       Deck patching(concrete)         48       Expansion joint repair/replacement         5       Graffitiremoval         14       Heat Straightening-Under-Bridge Hit		141:       Culvert Replace/Non-Bridge         4       Deck replacement         20:       Painting structural steel         89       Semi-Integral Abutment Conversion         13:       Structure Removal         22:       Structure steel repair         121:       Tunnel liner Installation         ***********************************	
	25       Bearing reset/replaced         27       Bridge diapering installation         9       Collision damage         10       Concrete patching(non-deck)         42       Deck overlay(asphalt w waterproofing)         41       Deck overlay(asphaltic concrete)         50       Deck patching(asphalt)         49       Deck patching(concrete)         48       Expansion joint repair/replacement         6       Graffiti removal         14       Heat Straightening-Under-Bridge Hit         26       Overhead concrete spall removal         15       Raising Bridge	cammeno	141       Culvert Replace/Non-Bridge         4       Deck replacement         20       Painting structural steel         89       Semi-Integral Abutment Conversion         13       Structure Removal         22       Structure steel repair         121       Tunnel liner Installation         142       Culvert New/Non-Bridge         5       Structure widening         1       Structure(new)         2       Structure(replacement)         3       Superstructure replacement	
	25       Bearing reset/replaced         27       Bridge diapering installation         9       Collision damage         10       Concrete patching(non-deck)         42       Deck overlay(asphalt w waterproofing)         41       Deck overlay(asphalt concrete)         50       Deck patching(asphalt)         49       Deck patching(concrete)         48       Expansion joint repair/replacement         6       Graffiti removal         14       Heat Straightening-Under-Bridge Hit         26       Overhead concrete spall removal         15       Raising Bridge         With the straightening-Under-Bridge Hit       Raising Bridge	La cum Parson	141       Culvert Replace/Non-Bridge         4       Deck replacement         20       Painting structural steel         89       Semi-Integral Abutment Conversion         13       Structure Removal         22       Structure steel repair         121       Tunnel liner Installation         1442 Culvert New/Non-Bridge         5       Structure widening         1       Structure(new).         2       Structure(replacement)         3       Superstructure replacement	
	25       Bearing reset/replaced         27       Bridge diapering installation         9       Collision damage         10       Concrete patching(non-deck)         42       Deck overlay(asphalt w waterproofing)         41       Deck overlay(asphaltic concrete)         50       Deck patching(asphalt)         49       Deck patching(concrete)         48       Expansion joint repair/replacement         6       Graffiti removal         14       Heat Straightening-Under-Bridge Hit         26       Overhead concrete spall removal         15       Raising Bridge	cicium 2015	141:       Culvert Replace/Non-Bridge         4       Deck replacement         20:       Painting structural steel         89:       Semi-Integral Abutment Conversion         13:       Structure Removal         22:       Structure steel repair         121:       Trunnel liner Installation         144:       Culvert New/Non-Bridge         5:       Structure widening         1:       Structure(replacement)         3:       Superstructure replacement         12:       Bridge Analysis	
	25       Bearing reset/replaced         27       Bridge diapering installation         9       Collision damage         10       Concrete patching(non-deck)         42       Deck overlay(asphalit w waterproofing)         41       Deck overlay(asphalit concrete)         50       Deck patching(concrete)         48       Expansion joint repair/replacement         6       Graffit/removal         14       Heat Straightening-Under-Bridge Hit         26       Overhead concrete spall removal         15       Ralsing Bridge         Mowrk       To Be Determined		141       Culvert Replace/Non-Bridge         4       Deck replacement         20       Painting structural steel         89       Semi-Integral Abutment Conversion         13       Structure Removal         22       Structure steel repair         121       Tunnel liner installation         142       Culvert New/Non-Bridge         5       Structure widening         1       Structure (replacement)         2       Structure (replacement)         3       Superstructure replacement         12       Bridge Analysis         11       Bridge Inspection (Consultant)         45       Deck/Skid Resistance Retrofit	
	25       Bearing reset/replaced         27       Bridge diapering installation         9       Collision damage         10       Concrete patching(non-deck)         42       Deck overlay(asphalit w waterproofing)         41       Deck overlay(asphalit concrete)         50       Deck patching(concrete)         48       Expansion joint repair/replacement         6       Graffit/removal         14       Heat Straightening-Under-Bridge Hit         26       Overhead concrete spall removal         15       Ralsing Bridge         Mowrk       To Be Determined	Reconstruction	141       Culvert Replace/Non-Bridge         4       Deck replacement         20       Painting structural steel         89       Semi-Integral Abutment Conversion         13       Structure Removal         22       Structure steel repair         121       Tunnel liner Installation         142       Culvert New/Non-Bridge         5       Structure widening         1       Structure (replacement)         2       Structure (replacement)         3       Superstructure replacement)         3       Superstructure replacement)         45       Deck/Skid Resistance Retrofit         45       Deck/Skid Resistance Retrofit         Major Rehab (Use only for BMS Conv)       Super Structure	
	25       Bearing reset/replaced         27       Bridge diapering installation         9       Collision damage         10       Concrete patching(non-deck)         42       Deck overlay(asphalit w waterproofing)         41       Deck overlay(asphalit concrete)         50       Deck patching(concrete)         48       Expansion joint repair/replacement         6       Graffit/removal         14       Heat Straightening-Under-Bridge Hit         26       Overhead concrete spall removal         15       Ralsing Bridge         Mowrk       To Be Determined	Reconstruction SD/FO cannot be 0 & Suff Rating 50% or less Rehabilitation	141       Culvert Replace/Non-Bridge         4       Deck replacement         20       Painting structural steel         89       Semi-Integral Abutment Conversion         13       Structure Removal         22       Structure steel repair         121       Tunnel liner installation         142       Culvert New/Non-Bridge         5       Structure widening         1       Structure (replacement)         2       Structure (replacement)         3       Superstructure replacement         12       Bridge Analysis         11       Bridge Inspection (Consultant)         45       Deck/Skid Resistance Retrofit	
	25       Bearing reset/replaced         27       Bridge diapering installation         9       Collision damage         10       Concrete patching(non-deck)         42       Deck overlay(asphalit w waterproofing)         41       Deck overlay(asphalit concrete)         50       Deck patching(concrete)         48       Expansion joint repair/replacement         6       Graffit/removal         14       Heat Straightening-Under-Bridge Hit         26       Overhead concrete spall removal         15       Raising Bridge         Markendersteining-Under-Bridge Hit       26         0       No Work         To Be Determined       14         49       Determined         Yes       Yes	Reconstruction SD/FO cannot be 0 & Suff Rating 50% or less Rehabilitation SD/FO cannot be 0 & Suff Rating 80% or less	141       Culvert Replace/Non-Bridge         4       Deck replacement         20       Painting structural steel         89       Semi-Integral Abutment Conversion         13       Structure Removal         22       Structure steel repair         121       Tunnel liner Installation         142       Culvert New/Non-Bridge         5       Structure (replacement)         3       Superstructure replacement)         2       Structure (replacement)         3       Superstructure replacement         12       Bridge Analysis         11       Bridge Inspection (Consultant)         45       Deck Skid Resistance Retrofit         Major Rehab (Use only for BMS Conv)       7         7       Movable Bridge (Fix Costs)         Unknown (Only w/BMS Conversion)       1	FILE.
	25       Bearing reset/replaced         27       Bridge diapering installation         9       Collision damage         10       Concrete patching(non-deck)         42       Deck overlay(asphalit w waterproofing)         41       Deck overlay(asphalit concrete)         50       Deck patching(concrete)         48       Expansion joint repair/replacement         6       Graffit/removal         14       Heat Straightening-Under-Bridge Hit         26       Overhead concrete spall removal         15       Raising Bridge         Markendersteining-Under-Bridge Hit       26         0       No Work         To Be Determined       14         49       Determined         Yes       Yes	Reconstruction SD/FO cannot be 0 & Suff Rating 50% or less Rehabilitation	141:       Culvert Replace/Non-Bridge         4       Deck replacement         20:       Painting structural steel         89:       Semi-Integral Abutment Conversion         13:       Structure Removal         22:       Structure steel repair         121:       Tunnel liner Installation         142:       Culvert New/Non-Bridge         5:       Structure Widening         1:       Structure (replacement)         2:       Structure(replacement)         3:       Superstructure replacement         12:       Bridge Analysis         11:       Bridge Inspection (Consultant)         4:       Deck Skid Resistance Retrofit         Major Rehab (Use only for BMS Conv)       7         7:       Movable Bridge (Fix Costs)         Unknown (Only w/BMS Conversion)       Superstructure (only w/BMS Conversion)	
	25       Bearing reset/replaced         27       Bridge diapering installation         9       Collision damage         10       Concrete patching(non-deck)         42       Deck overlay(asphalt w waterproofing)         41       Deck overlay(asphalt concrete)         50       Deck patching(asphalt)         49       Deck patching(concrete)         48       Expansion joint repair/replacement         6       Graffiti removal         14       Heat Straightening-Under-Bridge Hit         26       Overhead concrete spall removal         15       Raising Bridge         No       Work         To Be Determined       Fiblician distribution         Yes       No	Reconstruction SD/FO cannot be 0 & Suff Rating 50% or less Rehabilitation SD/FO cannot be 0 & Suff Rating 80% or less Deck Summary Rating of 4 or less	141       Culvert Replace/Non-Bridge         4       Deck replacement         20       Painting structural steel         89       Semi-Integral Abutment Conversion         13       Structure Removal         22       Structure steel repair         121       Tunnel liner Installation         142       Culvert New/Non-Bridge         5       Structure (replacement)         3       Superstructure replacement)         2       Structure (replacement)         3       Superstructure replacement         12       Bridge Analysis         11       Bridge Inspection (Consultant)         45       Deck Skid Resistance Retrofit         Major Rehab (Use only for BMS Conv)       7         7       Movable Bridge (Fix Costs)         Unknown (Only w/BMS Conversion)       1	FILE.
	25       Bearing reset/replaced         27       Bridge diapering installation         9       Collision damage         10       Concrete patching(non-deck)         42       Deck overlay(asphalit w waterproofing)         41       Deck overlay(asphalit concrete)         50       Deck patching(concrete)         48       Expansion joint repair/replacement         6       Graffitrernoval         14       Heat Straightening-Under-Bridge Hit         26       Overhead concrete spall removal         15       Raising Bridge         Market       To Be Determined         Vers       Yes         No       Yes         No       General	Reconstruction SD/FO cannot be 0 & Suff Rating 50% or less Rehabilitation SD/FO cannot be 0 & Suff Rating 80% or less	141       Culvert Replace/Non-Bridge         4       Deck replacement         20       Painting structural steel         89       Semi-Integral Abutment Conversion         13       Structure Removal         22       Structure steel repair         121       Tunnel liner Installation         142       Culvert New/Non-Bridge         5       Structure (replacement)         3       Superstructure replacement)         2       Structure(replacement)         3       Superstructure replacement)         3       Superstructure replacement         12       Bridge Analysis         11       Bridge Inspection (Consultant)         45       Deck Skid Resistance Retrofit         Major Rehab (Use only for BMS Conve)       7         7       Movable Bridge (Fix Costs)         Unknown (Only w/BMS Conversion)       Inspection (Consultant)         45       Deck Skid Resistance Retrofit         Major Rehab (Use only for BMS Conversion)       Plauwing Cost as Use \$150/.         Plauwing Cost as Use \$150/.       Bridge fix Costs         Unknown (Only w/BMS Conversion)       Plauwing Cost as Use \$150/.	FILE.
	25       Bearing reset/replaced         27       Bridge diapering installation         9       Collision damage         10       Concrete patching(non-deck)         42       Deck overlay(asphalit w waterproofing)         41       Deck overlay(asphalit concrete)         50       Deck patching(concrete)         48       Expansion joint repair/replacement         6       Graffitrernoval         14       Heat Straightening-Under-Bridge Hit         26       Overhead concrete spall removal         15       Raising Bridge         Waterset       No Work         To Be Determined       Ito Be Determined         Vers       No         Vers       No         Deck       Deck patching/statistics	Reconstruction SD/FO cannot be 0 & Suff Rating 50% or less Rehabilitation SD/FO cannot be 0 & Suff Rating 80% or less Deck Summary Rating of 4 or less	141:       Culvert Replace/Non-Bridge         4       Deck replacement         20:       Painting structural steel         89:       Semi-Integral Abutment Conversion         13:       Structure Removal         22:       Structure steel repair         121:       Tunnel liner Installation         142:       Culvert New/Non-Bridge         5:       Structure Widening         1:       Structure (replacement)         2:       Structure(replacement)         3:       Superstructure replacement         12:       Bridge Analysis         11:       Bridge Inspection (Consultant)         4:       Deck Skid Resistance Retrofit         Major Rehab (Use only for BMS Conv)       7         7:       Movable Bridge (Fix Costs)         Unknown (Only w/BMS Conversion)       Superstructure (only w/BMS Conversion)	FILE.
	25       Bearing reset/replaced         27       Bridge diapering installation         9       Collision damage         10       Concrete patching(non-deck)         42       Deck overlay(asphalit w waterproofing)         41       Deck overlay(asphalit concrete)         50       Deck patching(concrete)         48       Expansion joint repair/replacement         6       Graffitrernoval         14       Heat Straightening-Under-Bridge Hit         26       Overhead concrete spall removal         15       Raising Bridge         Market       To Be Determined         Vers       Yes         No       Yes         No       General	Reconstruction SD/FO cannot be 0 & Suff Rating 50% or less Rehabilitation SD/FO cannot be 0 & Suff Rating 80% or less Deck Summary Rating of 4 or less	141       Culvert Replace/Non-Bridge         4       Deck replacement         20       Painting structural steel         89       Semi-Integral Abutment Conversion         13       Structure Removal         22       Structure steel repair         121       Tunnel liner Installation         142       Culvert New/Non-Bridge         5       Structure (replacement)         3       Superstructure replacement)         2       Structure(replacement)         3       Superstructure replacement)         3       Superstructure replacement         12       Bridge Analysis         11       Bridge Inspection (Consultant)         45       Deck Skid Resistance Retrofit         Major Rehab (Use only for BMS Conve)       7         7       Movable Bridge (Fix Costs)         Unknown (Only w/BMS Conversion)       Inspection (Consultant)         45       Deck Skid Resistance Retrofit         Major Rehab (Use only for BMS Conversion)       Plauwing Cost as Use \$150/.         Plauwing Cost as Use \$150/.       Bridge fix Costs         Unknown (Only w/BMS Conversion)       Plauwing Cost as Use \$150/.	FILE.

OUL MURRY Ridge LOB - 90-1157 R LOR-90-10,76 Date: 7/15/22 PID: 107714 SEN: 4704371 Bridge No. 124-92-min-Michigan Jan Minor Rendomination and a state of the second 61. Bridge railing upgrade/repair . 86 Abutment replacement/repair 87 Channel clean out 119 Approach (other) 81 Channel drift removal 102 Approach railing repair 143 Culvert Extension/Non-Bridge 101. Approach roadway profile correction 120 Culvert Invert repair 100. Approach slab replacement/repair 144 Culvert Repair/Non-Bridge 63 Bridge light installation/repair 47 Deck and abutment seat cleaning 61 Bridge railing upgrade/repair 46 Deck cathodic protection installation 10. Concrete patching (non-deck) 40 Deck overlay(concrete) 139- Culvert (other) 43 · Deck overlay(epoxy) 120 Culvert Invert repair 44 Deck overlay (other) 159 Culvert Other/Non-Bridge 50 Deck patching (asphalt) 20 . Deck patching (asphalt) 49 Deck patching (concrete) 49 Deck patching (concrete) 51 Deck Sealing 59 Deck-surface 28 Drainage system cleaned/repaired 62 Fence Installation/repair 48 Expansion Joint repair/replacement 80<sup>-</sup> Foundation stabilization 23 Fatigue retrofit 8 Movable.bridge(repair) 20 Painting structural steel 20 Painting structural steel 24 Pin and Hanger retrofit 103 Pressure relief joint installation 85 Pier replacement/repair 84 Plle encasement Raising-Bridge 103 Pressure relief joint installation 83 Scour prevention and correction Ralsing Bridge 60 Sidewalk repair/replacement 60 Sidewalk repair/replacement 82 Slope repair & protection installation 82 · Slope repair & protection 52 Spall Removal 22 Structure steel repair 21 Spot-painting-structural steel 99 Substructure (other) 88 Substructure Sealing 39 Superstructure (other) Tri lande - Waling and -Continues ..... weighter auf der ander auf der ander auf der ander auf der auf 29 Backwall replacement/repair 122 Culvert Linear Repair Replace Deck on Ex. Beins w/ New Comp. deck - see seperate scope. 25 Bearing reset/replaced 141 Culvert Replace/Non-Bridge 27 Bridge diapering installation 4 Deck replacement 9 Collision damage 20. Painting structural steel 10 Concrete patching(non-deck) 89 Semi-integral Abutment Conversion 42 Deck overlay(asphalt w waterproofing) 13. Structure Removal 41 Deck overlay(asphaltic concrete) 22 Structure steel repair 50 Deck patching(asphait) 121 Tunnel liner installation 49 Deck patching(concrete) 48 Expansion joint repair/replacement IXCL. (cinic) and a second 6 Graffiti removal 142 Culvert New/Non-Bridge 14 Heat Straightening-Under-Bridge Hit 5 Structure widening 26 Overhead concrete spall removal 1 Structure(new) 15 Raising Bridge 2 Structure(replacement) 3 Superstructure replacement Comments. No Work Indisculation (Costs and Costs) To Be Determined 12 Bridge Analysis 11 Bridge Inspection (Consultant) <u>เสมาปปลายางมีเป็นปร</u> 45 Deck Skid Resistance Retrofit Reconstruction Major Rehab (Use only for BMS Conv) SD/FO cannot be 0 & Suff Rating 50% or less Movable Bridge (Fix Costs) Yes Rehabilitation Unknown (Only w/BMS Conversion) SD/FO cannot be 0 & Suff Rating 80% or less Deck Summary Rating of 4 or less No Plaunin Cast of 5124SFX #210/SF = 1.1 M+ \$ 300 C = 9 Careelen -----Gelmmenter. \$ 210/SF General Deck 1998 BURDENWORGESTIMUTER STORE 他是我们就是不会帮助你们的问题,你们们就是你们就是你们还是我们的你。 Wearing Surface Paint \$1,400,000 Not Applicable

#### PID 107714 LOR-90-10.76 Design/Build Scope For Bridge Nos. LOR-90-1157L (SFN 4704398) & LOR-90-1157R (SFN 4704371) 07/15/2022

#### Existing Bridge Information: SFN: 4704398- 11.57L

Year Built: 1974 General Appraisal: 7 Sufficiency Rating: 92.3 Length: 129' Width: 40.5' (Inside of parapet to Inside of parapet)

Current bridge is a three-span continuous steel beam bridge with integral abutments over Murray Ridge Road.

Current bridge has a concrete deck with asphalt wearing surface and concrete parapets.

Existing approach slabs are 25' long. Originally constructed part width.

Current deck is straight with a superelevation.

Current bridge is on a tangent alignment with 21° 56' 10" L.F. skew.

Current bridge was designed for HS20 and Alternate Interstate Loading.

Overhead clearance over Murray Ridge Road is 20'.

Current bridge plans can be found under construction project # 730457.

### Proposed Bridge Information:

Remove the existing bridge deck and integral blocks; parapets; and approach slabs. Remove existing deck scuppers.

Salvage the beams, piers and abutments.

Provide new reinforced concrete deck matching existing f/f of parapet width (40'-6"+/-). Deck design to conform to Bridge Design Manual (BDM) section 309.3.

Provide a deck haunch at least 1.0 inches thick over existing beam moment and splice plates. Superstructure to remain integral with the substructure.

Provide new 42" single slope parapets per current standards. (Presently SCD SBR-1-20) Seal the deck and parapets with epoxy-urethane in accordance with the current BDM.

Add shear studs to beams to make new deck composite.

Retrofit beam moment plates over piers in accordance with BDM section 404.1.2.4.a. No Remaining Fatigue Life Analysis is to be performed.

Paint existing structural steel. Finish coat color to be in conformance with CMS. Color to match right bridge

Provide analysis and load rating of bridge superstructure in accordance with the current Bridge Design Manual. Include a 60 psf future wearing surface per BDM.

Evaluate the deck drainage. Eliminate scuppers if possible. Provide drainage facilities immediately off of the bridge if scuppers are not required. Install scuppers if needed.

Remove bearing fixity at the piers and replace all bearings. Install new elastomeric bearings/stainless steel/Teflon materials, if needed.

Reuse the existing abutments. Install new integral superstructure blocks on existing seats. Preserve the existing #6 integral bars sticking up from abutment into the superstructure integral block.

Sound the abutments; patch as needed.

Refurbish/strengthen the wingwalls as needed to provide lateral seismic restraint; or provide a new abutment keyway for seismic loading.

Remove existing coatings from the abutment surfaces and re-seal the abutments with epoxyurethane.

Sound the pier caps and columns; patch as needed.

Remove existing coatings from the pier surfaces and re-seal the piers with epoxy-urethane. Evaluate the pier caps and columns for additional shear strength and seismic loading, if additional strength is needed, include the additional amount in the plan to be provided by fiber wrap. Provide protective fiber wrap layer on pier columns at minimum.

Install new full-width approach slabs, minimum length of 25 feet.

No asphalt wearing surface on new deck and approach slabs.

Closely match vertical and horizontal alignments of the roadway. Maintain minimum vertical clearance with Murray Ridge below bridge (20.0 feet). Provide minimum haunch thickness specified for deck design. (Need to coordinate vertical alignment with proposed roadway Bridge deck has break on high-side outside shoulder - what is the roadway doing?)

#### Existing Bridge Information: SFN: 4704371-11.57 R

Year Built: 1974 General Appraisal: 7 Sufficiency Rating: 93.6 Length: 122' Width: 40.5' (Inside of parapet to Inside of parapet)

Current bridge is a three-span continuous steel beam bridge with integral abutments over Murray Ridge Road.

Current bridge has a concrete deck with asphalt wearing surface and concrete parapets.

Existing approach slabs are 25' long. Originally constructed part width.

Current bridge deck is <u>superelevated on curved alignment</u> with a degree of curvature of 1° 28'. Beams are tangent. Substructure has a 19° 36' 46" L.F. skew with respect to the local tangent. Current bridge was designed for HS20 and Alternate Interstate Loading.

Overhead clearance over Murray Ridge Road is 14'-7".

Current bridge plans can be found under construction project # 730457.

#### Proposed Bridge Information:

Remove the existing bridge deck and parapets along with the approach slabs. Remove existing deck scuppers.

Salvage the beams, piers and abutments.

Provide new reinforced concrete deck matching existing f/f of parapet width (40'-6"+/-). Deck design to conform to Bridge Design Manual (BDM) section 309.3.

Provide a deck haunch at least 1.0 inches thick over existing beam moment and splice plates.

Superstructure to remain integral with the substructure.

Provide new 42" single slope parapets per current standards. (Presently SCD SBR-1-20) Seal the deck and parapets in accordance with the current BDM.

Add shear studs to beams to make new deck composite.

Retrofit beam moment plates over piers in accordance with BDM section 404.1.2.4.a. No Remaining Fatigue Life Analysis is to be performed.

Paint existing structural steel. Finish coat color to be in conformance with CMS. Color to match left bridge.

Provide analysis and load rating of bridge superstructure in accordance with the current Bridge Design Manual. Include a 60 psf future wearing surface per BDM.

Evaluate the deck drainage. Eliminate scuppers if possible. Provide drainage facilities immediately off of the bridge if scuppers are not required. Install scuppers if needed.

Remove bearing fixity at the piers and replace all bearings. Install new elastomeric bearings/stainless steel/Teflon materials, if needed.

Reuse the existing abutments. Install new integral superstructure blocks on existing seats. Preserve the existing #6 integral bars sticking up from abutment into the superstructure integral block.

Sound the abutments; patch as needed.

Refurbish/strengthen the wingwalls as needed to provide lateral seismic restraint; or provide a new abutment keyway for seismic loading.

Remove existing coatings from the abutment surfaces and re-seal the abutments with epoxyurethane.

Sound the pier caps and columns; patch as needed.

Remove existing coatings from the pier surfaces and re-seal the piers with epoxy-urethane.

Evaluate the pier caps and columns for additional shear strength and seismic loading, if additional strength is needed, include the additional amount in the plan to be provided by fiber wrap. Provide protective fiber wrap layer on pier columns at minimum.

Install new full-width approach slabs, minimum length of 25 feet.

No asphalt wearing surface on new deck and approach slabs.

Closely match the horizontal and vertical alignments of the roadway. (Minimum vertical clearance over Murray Ridge Road is currently 14'-7"). Provide minimum haunch thickness specified for deck design. (What are roadway specs approaching this fully superelevated bridge?)

LOR-90-10,76 PID: 107714 Bridge No. LOR-90-1178 L SFN: 47 04401 Date: 126-221102-33121014-mintr Minicialite and the second 61 Bridge railing upgrade/repair 86 Abutment replacement/repair 87 Channel clean out 119 Approach (other) 81 Channel drift removal 
 102
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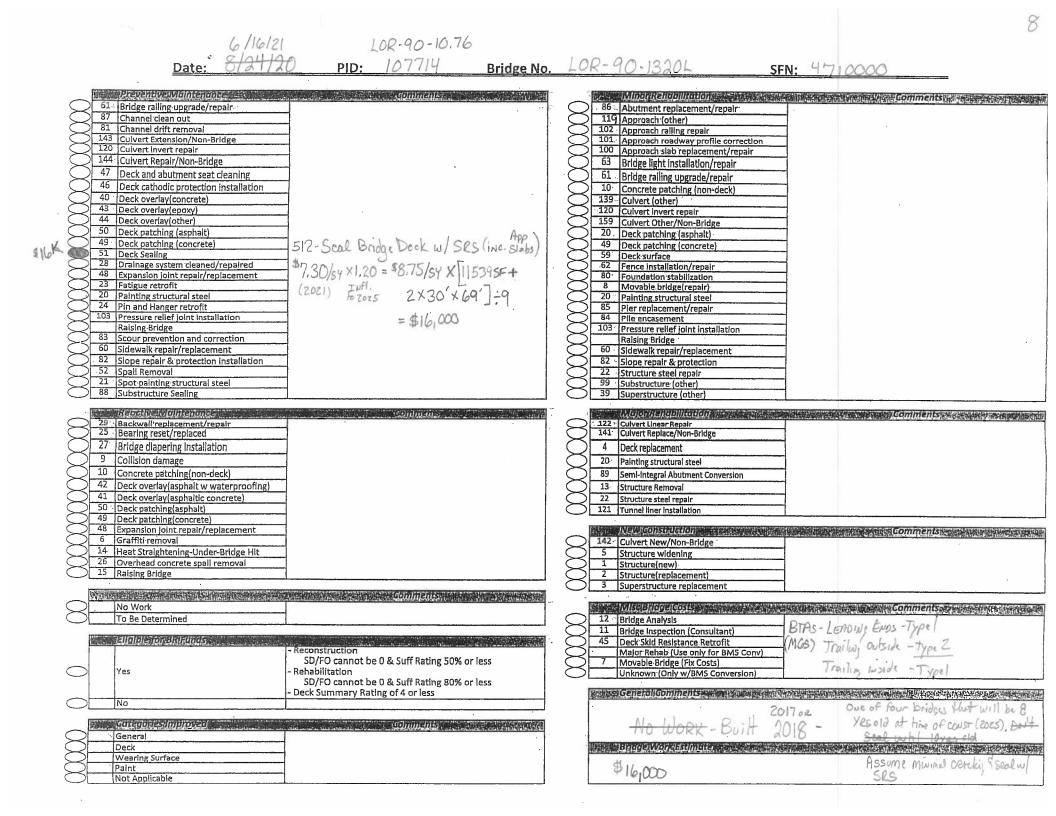
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 Approach roadway profile correction
 143 Culvert Extension/Non-Bridge 120 Culvert Invert repair 100 Approach slab replacement/repair 144 Culvert Repair/Non-Bridge 63 Bridge light installation/repair 47 Deck and abutment seat cleaning 61 Bridge railing upgrade/repair 46 Deck cathodic protection installation 10 Concrete patching (non-deck) 40 Deck overlay(concrete) 139 Culvert (other) 43 Deck overlay(epoxy) 120 Culvert invert repair 44 Deck overlay(other) 159 Culvert Other/Non-Bridge 50 Deck patching (asphalt) 20 Deck patching (asphalt) 49 Deck patching (concrete) 49 Deck patching (concrete) 51 Deck Sealing 59 Deck surface 28 Drainage system cleaned/repaired 62 Fence installation/repair 48 Expansion joint repair/replacement 80 Foundation stabilization 23 Fatigue retrofit 8 Movable bridge(repair) 20 Painting structural steel 20 Painting structural steel 24 Pin and Hanger retrofit 85 Pier replacement/repair 103 Pressure relief joint installation 84 Pile encasement Raising-Bridge 103 Pressure relief joint installation 83 Scour prevention and correction Raising Bridge 60 Sidewalk repair/replacement 60 Sidewalk repair/replacement 82 Slope repair & protection installation 82 Slope repair & protection 52 Spall Removal 22 Structure steel repair 21 Spot painting structural steel 99 Substructure (other) 88 Substructure Sealing 39 Superstructure (other) Record Contribution and a second Confidence . MojorRenabilitation as we describe the second se 29 Backwall replacement/repair 122 Culvert Linear Repair 25 Bearing reset/replaced 141 Culvert Replace/Non-Bridge 27 Bridge diapering installation 4 Deck replacement 9 Collision damage 20 Painting structural steel 10 Concrete patching(non-deck) 89 Semi-Integral Abutment Conversion 42 Deck overlay(asphalt w waterproofing) 13 Structure Removal 41 Deck overlay(asphaltic concrete) 22 Structure steel repair 50 Deck patching(asphait) 121 Tunnel liner installation 49 Deck patching(concrete) 48 Expansion joint repair/replacement New Comments 6 Graffiti removal 142 Culvert New/Non-Bridge 14 Heat Straightening-Under-Bridge Hit 5 Structure widening 26 Overhead concrete spall removal 1 Structure(new) 15 Raising Bridge 2 Structure(replacement) 3 Superstructure replacement Comments No Work To Be Determined 12 Bridge Analysis 11 Bridge Inspection (Consultant) and the second 45 Deck Skid Resistance Retrofit Reconstruction Major Rehab (Use only for BMS Conv) SD/FO cannot be 0 & Suff Rating 50% or less Movable Bridge (Fix Costs) Maistries Verhead CLR below (16-0") Yes Rehabilitation Unknown (Only w/BMS Conversion) SD/FO cannot be 0 & Suff Rating 80% or less Deck Summary Rating of 4 or less General Comments No PID No Work - New Bridge 8459 Curater and an in planted Genments General Deck Wearing Surface \$ Paint Not Applicable

10R-90-10,76 7/15/22 PID: 107714 Bridge No. LOR - 90-1244L SFN: 47 14355 Date: #Preventive:Maintenance MInerrica control to the second s 61 Bridge railing upgrade/repair 86 Abutment replacement/repair 87 Channel clean out Repair the horizontally Cracked tops 119 Approach (other) 81 Channel drift removal 102 Approach railing repair of parapets. Seal repaired areas wit 143 Culvert Extension/Non-Bridge 101 Approach roadway profile correction 120 Culvert invert repair Epoxy-Urithur, Per 100077 bids Use # 190/A in 2025 Est Lagth of horiz Eracking: Exterior: 164 (Fullowith) 100 Approach slab replacement/repair 144 Culvert Repair/Non-Bridge 63 Bridge light installation/repair 512 - Treating Bridge Decks W/ GFR (Incl. 38 47 Deck and abutment seat cleaning 61 |Bridge railing upgrade/repair 46 Deck cathodic protection installation 10 Concrete patching (non-deck) App. Slab) &t: Cost \$9,04/sy × 1.20= 10.85 -> use \$13/102 40 Deck overlay(concrete) 139 Culvert (other) 43 Deck overlay(epoxy) 120 Culvert invert repair 44 Deck overlay(other) 159 Culvert Other/Non-Bridge Exterior: 164 (Full ley)( 50 Deck patching (asphalt) 20 Deck patching (asphalt) 49 Deck patching (concrete) \$13/54× [10,4965++2×25×60]/9=\$19,500 49 Deck patching (concrete) Interior: 30' Misc. 6 51 Deck Sealing 59 Deck surface 28 Drainage system cleaned/repaired 62 Fence installation/repair 48 Expansion joint repair/replacement 80<sup>-</sup> Foundation stabilization 512 - Remove Contings & re-seal inside face 23 Fatigue retrofit 8 Movable bridge(repair) 20 Painting structural steel 20 Painting structural steel f top -INCLOOD App slebs \$3 24 Pin and Hanger retrofit P= 53" Renoval of Cochings # 28 =4.42' New Scal (Eport-Unthin) = # 26 20.65 # 54/54' 28+82 216 × 2× \$4.42'9 × \$54/54' 20015 × \$190/LF 85 Pier replacement/repair 103 Pressure relief joint installation 10" P=53" 84 Pile encasement = \$38,000 Raising Bridge 103 Pressure relief joint installation 83 Scour prevention and correction Raising Bridge 60 Sidewalk repair/replacement 60 Sidewalk repair/replacement (Include some replacent repar -likely not needs 82 Slope repair & protection installation 82 Slope repair & protection V428+82 52 Spall Removal 22 Structure steel repair =\$11,500 21 Spot painting structural steel 99 Substructure (other) =43\* (There may be some sealing overlap w/ 88 Substructure Sealing 39 Superstructure (other) il dialit - vitilitation Confidences a second se Klojonii, Itapilliation der half bester at the 29 Backwall replacement/repair 122 - Culvert Linear Repair 25 Bearing reset/replaced 141 Culvert Replace/Non-Bridge 27 Bridge diapering Installation 4 Deck replacement 9 Collision damage 20 Painting structural steel 10 |Concrete patching(non-deck) 89 Semi-Integral Abutment Conversion 42 Deck overlay(asphalt w waterproofing) 13 Structure Removal 41 Deck overlay(asphaltic concrete) 22 Structure steel repair 50 Deck patching(asphalt) 121 Tunnel liner installation 49 Deck patching(concrete) 48 Expansion joint repair/replacement Net Comments - Advertised and Advertised and Advertised and Advertised and Advertised and Advertised and Advert 6 Graffiti removal 142 Culvert New/Non-Bridge 14 Heat Straightening-Under-Bridge Hit 5 Structure widening 26 Overhead concrete spall removal 1 Structure(new) 15 Raising Bridge 2 Structure(replacement) 3 Superstructure replacement <u>Commun</u> No Work To Be Determined 11 Bridge Inspection (Consultant) Ellolde for Bitlitings 45 Deck Skid Resistance Retrofit within the state of distribution Reconstruction Maior Rehab (Use only for BMS Conv) SD/FO cannot be 0 & Suff Rating 50% or less Movable Bridge (Fix Costs) Yes Rehabilitation Unknown (Only w/BMS Conversion) SD/FO cannot be 0 & Suff Rating 80% or less Deck Summary Rating of 4 or less Generol Comments - A second state and second sec No Rebuilt 2009 - All existing BTAS Type I except inside trailing eus his Carerenter inproved <u>comments</u>, General Deck Bruge Work Estimate Wearing Surface Paint 5,000 \$ 69,000 Not Applicable

LOR-90-10,76 7/15/22 PID: 107714 Bridge No. LOR - 90-1244 R SFN: 4704444 Date: Preventivervlamtenanie MInorREncomments 61 Bridge railing upgrade/repair 87 Channel clean out 119 Approach (other) 512 - Treating Bridge Decks w/ GFR 81 Channel drift removal 102 Approach railing repair Repair the horrzontally cracke tops of 143 Culvert Extension/Non-Bridge 101 Approach roadway profile correction 120 Culvert Invert repair 100 Approach slab replacement/repair (INC. App. Slabs) parapets. Seal repaired areas w/ 144 Culvert Repair/Non-Bridge 63 Bridge light installation/repair 47 Deck and abutment seat cleaning 61 Bridge railing upgrade/repair 46 Deck cathodic protection installation 10 Concrete patching (non-deck) epoxy Urethany, (Inc. App Stab troaschar pouget) \$ 13/yd x [10,2695+2x25×60] =9. 40 Deck overlay(concrete) 139 Culvert (other) 43 [Deck overlay(epoxy) =#18,700 120 Culvert invert repair 44 Deck overlay(other) 159 Culvert Other/Non-Bridge Est Cracking lought: 50 Deck patching (asphalt) 20 Deck patching (asphalt) 18.7 49 Deck patching (concrete) 49 Deck patching (concrete) Exteriors: 50243+50% 50/+RApp = 152 51 Deck Sealing 59 Deck surface 512 - Renove Contings & re-seal inside face 28 Drainage system cleaned/repaired 62 Fence installation/repair Interior O Misc. 8' 48 Expansion joint repair/replacement 80 Foundation stabilization & top - INC. App. Slabs 23 Fatigue retrofit 30.0K 8 Movable bridge(repair) 20 Painting structural steel 20 Painting structural steel 24 Pin and Hanger retrofit 85 Pier replacement/repair 212 ×2× 4,4219 × \$54/57 = \$11,300 103 Pressure relief joint installation 84 Pile encasement Raising Bridge 103 Pressure relief joint installation 160 FT X \$ 190/1F = \$ 30,500 83 Scour prevention and correction Raising Bridge 60 Sidewalk repair/replacement 60 Sidewalk repair/replacement 82 Slope repair & protection installation 82 Slope repair & protection 52 Spall Removal 22 Structure steel repair 21 Spot painting structural steel 99 Substructure (other) 88 Substructure Sealing 39 Superstructure (other) MojorRenabilitational session and statements and session and session and session and session and session and se Readively almenances continues ..... 29 Backwall replacement/repair 122 Culvert Linear Repair 25 Bearing reset/replaced 141 Culvert Replace/Non-Bridge 27 Bridge diapering Installation 4 Deck replacement 9 Collision damage 20 Painting structural steel 10 Concrete patching(non-deck) 89 Semi-Integral Abutment Conversion 42 Deck overlay(asphalt w waterproofing) 13 Structure Removal 41 Deck overlay(asphaltic concrete) 22 Structure steel repair 50 Deck patching(asphalt) 121 Tunnel liner installation 49 [Deck patching(concrete) 48 Expansion joint repair/replacement New construction 6 Graffiti removal 142 Culvert New/Non-Bridge 14 Heat Straightening-Under-Bridge Hit 5 Structure widening 26 Overhead concrete spall removal 1 Structure(new) 15 Raising Bridge Structure(replacement) 3 Superstructure replacement Commentaria No Work To Be Determined 12 Bridge Analysis 11 Bridge Inspection (Consultant) داعياناناندان والمارالي 45 Deck Skid Resistance Retrofit The second second second second second Reconstruction Major Rehab (Use only for BMS Conv) SD/FO cannot be 0 & Suff Rating 50% or less Movable Bridge (Fix Costs) Yes Rehabilitation Unknown (Only w/BMS Conversion) SD/FO cannot be 0 & Suff Rating 80% or less Deck Summary Rating of 4 or less What General Gomments when the second s No il + 2009 - All Existing BTAS Type I except inside trailing eng his "T" type hole pattern driller, (Type 2) Care line in the second Comments General BinnerWein Hillingen Deck Wearing Surface Paint \$60.500 15 ADA-Not Applicable

7/15/2022 LOR-90-10 Date: 8/24/2020 PID: 107714 LOR-90-10,76 (our CSX) Bridge No. LOR-90-1256 L SEN: 4704487 Minor Renabilitation Preventivervialnianane- ----61 Bridge railing upgrade/repair .86 Abutment replacement/repair 512 · Truthing Bridge Decks w/GFR (INC, App Slabs) \$13/yd<sup>2</sup>x [9,1395F+2×25×60]=9=87,500 87 Channel clean out 119 Approach (other) 81 Channel drift removal 102 Approach railing repair 101 Approach roadway profile correction 143 Culvert Extension/Non-Bridge Repair the horizon hally cracked tops of 120 Culvert Invert repair 100 Approach slab replacement/repair 144 Culvert Repair/Non-Bridge 63 Bridge light installation/repair parapets. Seal repaired areas w/ 47 Deck and abutment seat cleaning 61 Bridge railing upgrade/repair 46 Deck cathodic protection installation 10 Concrete patching (non-deck) OPOXY-Urethave, (INC App. Slab Barepet 40 Deck overlay(concrete) 139 Culvert (other) 43 [Deck overlay(epoxy) 120 Culvert invert repair 44 Deck overlav(other) 159 Culvert Other/Non-Bridge as-verden 512 - Remove Coatings Preseal inside 50 Deck patching (asphalt) 20 Deck patching (asphalt) \$ 17.5 49 Deck patching (concrete) 49 Deck patching (concrete) Estimates Cracking Leugth: Face & top -INC. App Slabs 51 Deck Sealing 59 Deck surface \$ 10.5 28 Drainage system cleaned/repaired 62 Fence installation/repair Exterior : 144 x 75% = 108 48 Expansion Joint repair/replacement 195 × 2 × 4,42 /9 × #54/sy = # 10,500 80<sup>-</sup> Foundation stabilization 23 Fatigue retrofit 8 Movable bridge(repair) Interior: O' Misc.: 12' 120' 20 Painting structural steel 20 Painting structural steel 24 Pin and Hanger retrofit 85 Pier replacement/repair 103 Pressure relief joint installation 84 Pile encasement 103 Pressure relief joint installation Raising Bridge 83 Scour prevention and correction Raising Bridge 60 Sidewalk repair/replacement 60 Sidewalk repair/replacement 120'x \$190/LF = \$3.000 82 Slope repair & protection installation 82 Slope repair & protection 52 Spall Removal 22 Structure steel repair 21 Spot painting structural steel 99 Substructure (other) 39 Superstructure (other) 88 Substructure Sealing M.Dor BUndbilliation il dente a feiling neues Comments 29 Backwall replacement/repair 122 Culvert Linear Repair 25 Bearing reset/replaced 141 Culvert Replace/Non-Bridge 27 Bridge diapering Installation 4 Deck replacement 9 Collision damage 20 Painting structural steel 10 [Concrete patching(non-deck] 89 Semi-Integral Abutment Conversion 42 Deck overlay(asphalt w waterproofing) 13 Structure Removal 41 Deck overlay(asphaltic concrete) 22 Structure steel repair 50 Deck patching(asphalt) 121 Tunnel liner installation 49 Deck patching(concrete) 48 Expansion joint repair/replacement NEL/consultion 6 Graffiti removal 142 Culvert New/Non-Bridge 14 Heat Straightening-Under-Bridge Hit 5 Structure widening 26 Overhead concrete spall removal 1 Structure(new) 15 Raising Bridge 2 Structure(replacement) Superstructure replacement Comments and a second No Work In the second To Be Determined 12 Bridge Analysis 11 Bridge Inspection (Consultant) 45 Deck Skid Resistance Retrofit Reconstruction Major Rehab (Use only for BMS Conv) SD/FO cannot be 0 & Suff Rating 50% or less Movable Bridge (Fix Costs) Yes Rehabilitation Unknown (Only w/BMS Conversion SD/FO cannot be 0 & Suff Rating 80% or less Deck Summary Rating of 4 or less General Comments - Andreas - An Built 2009 - All Bras are Type I or Continue Conc. Parpet No Curate an in Druhad **Comments** General Deck Haroever stimute Wearing Surface Paint \$ 51,000 Not Applicable

LOR-90-10.76 7/15/2022 (over CSX) PID: 107714 Bridge No. LOR - 90 - 1256 R SFN: 4704517 Date: 127-Danie al Mandanen a Mineric Ancientication 61 Bridge railing upgrade/repair 86 Abutment replacement/repair 512-Treating Bridge Decks W/GFR (INC. App Slabs) \$13/ydx [9,139'sF+2x25'x60];9=\$17,5 87 Channel clean out 119 Approach (other) 81 Channel drift removal 102 Approach railing repair Repair the horrzostally cereled tops of Parapets, Seal repaired areas W/ epoxy-vrethave, (INC. App. Slab parapet as wrow) 143 Culvert Extension/Non-Bridge 101. Approach roadway profile correction 120 Culvert invert repair 100 Approach slab replacement/repair 144 Culvert Repair/Non-Bridge 63 Bridge light installation/repair 47 Deck and abutment seat cleaning 61 Bridge railing upgrade/repair 46 Deck cathodic protection installation 10 Concrete patching (non-deck) 139 Culvert (other) 40 Deck overlay(concrete) 43 Deck overlay(epoxy) 120 Culvert Invert repair Estimated Cerching Leugths 44 Deck overlay(other) 512 - Renove contings & reseal inside 159 Culvert Other/Non-Bridge 20 Deck patching (asphalt) 50 Deck patching (asphalt) 49 Deck patching (concrete) 49 Deck patching (concrete) Exterior : 105' 110.5K face & top of parapets - INC. App. Slabs 51 Deck Sealing 59 Deck surface 28 Drainage system cleaned/repaired 62 Fence installation/repair Interior ØA. \$28K 48 Expansion joint repair/replacement 80' Foundation stabilization 23 Fatigue retrofit 195 × 2×4.42/9 × \$54/54 = \$ 10,500 8 Movable bridge(repair) Misc, 15' 20 Painting structural stee 20 Painting structural steel 24 Pin and Hanger retrofit 85 Pier replacement/repair 1201 84 Pile encasement 103 Pressure relief joint installation 103 Pressure relief joint installation Raising Bridge 83 Scour prevention and correction Raising Bridge 120'x \$190/LF = \$23,000 60 Sidewalk repair/replacement 60 Sidewalk repair/replacement 82 Slope repair & protection 82 Slope repair & protection installation 52 Spall Removal 22 Structure steel repair 99 Substructure (other) 21 Spot painting structural steel 39 Superstructure (other) 88 Substructure Sealing ildudice veilinentuise Commences ..... 29 Backwall replacement/repair 122 Culvert Linear Repair 25 Bearing reset/replaced 141 Culvert Replace/Non-Bridge 27 Bridge diapering Installation 4 Deck replacement 9 Collision damage 20 Painting structural steel 10 Concrete patching(non-deck) 89 Semi-Integral Abutment Conversion 42 Deck overlay(asphalt w waterproofing) 13 Structure Removal 41 Deck overlay(asphaltic concrete) 22 Structure steel repair 50 Deck patching(asphalt) 121 Tunnel liner Installation 49 Deck patching(concrete) 48 Expansion joint repair/replacement New Construction 6 Graffiti removal 142 Culvert New/Non-Bridge 14 Heat Straightening-Under-Bridge Hit 5 Structure widening 26 Overhead concrete spall removal 1 Structure(new) 15 Raising Bridge 2 Structure(replacement) 3 Superstructure replacement Comments. MIS-D/COUCSIS No Work 12 Bridge Analysis To Be Determined 11 Bridge inspection (Consultant) المعالمة ال 45 Deck Skid Resistance Retrofit White and should be also allotted strady in T in Reconstruction Major Rehab (Use only for BMS Conv) SD/FO cannot be 0 & Suff Rating 50% or less Movable Bridge (Fix Costs) Yes Rehabilitation Unknown (Only w/BMS Conversion) SD/FO cannot be 0 & Suff Rating 80% or less Deck Summary Rating of 4 or less General Gomments and the second se Built 2009 - Boit pattern drilles Ctype 2) No Gaterianies Injuraved Gomments and the second se General Biologia Mon A filmeter Deck Wearing Surface 3,000 = \$51,00) Paint Not Applicable



LOR-90-10,76 LOR-90-1320 R 471000 SFN: Date: PID: 107714 Bridge No. Prevenuvervlaintenanue We Minor Rendollitation and an and the second se Commenter de la commenter 61. Bridge railing upgrade/repair 86 Abutment replacement/repair 87 Channel clean out 119 Approach (other) 81 Channel drift removal 102 Approach railing repair 101 Approach roadway profile correction 143 Culvert Extension/Non-Bridge 100 Approach slab replacement/repair 120 Culvert invert repair 144 Culvert Repair/Non-Bridge 63 Bridge light installation/repair 47 Deck and abutment seat cleaning 61 Bridge railing upgrade/repair 46 Deck cathodic protection installation 10 Concrete patching (non-deck) 40 Deck overlay(concrete) 139 Culvert (other) 43 Deck overlay(epoxy) 120 Culvert Invert repair 44 Deck overlay(other) 159 Culvert Other/Non-Bridge 50 Deck patching (asphalt) 20 Deck patching (asphalt) \$12-Sealing Bridge Docks W/ SRS (Deck #App \$8.75/54 × [115395=+2×30×64];9 49 Deck patching (concrete) 49 Deck patching (concrete) \$165 51 Deck Sealing 59 Deck surface 28 Drainage system cleaned/repaired .62 Fence installation/repair 80<sup>-</sup> Foundation stabilization 48 Expansion joint repair/replacement 23 Fatigue retrofit 8 Movable bridge(repair) 20 Painting structural steel 20 Painting structural steel 24 Pin and Hanger retrofit 85 Pier replacement/repair 84 Pile encasement 103 Pressure relief joint installation Raising-Bridge =\$16,000 103 Pressure relief joint installation 83 Scour prevention and correction Raising Bridge 60 Sidewalk repair/replacement 60 Sidewalk repair/replacement 82 Slope repair & protection installation 82 |Slope repair & protection 22 Structure steel repair 52 Spall Removal 99 Substructure (other) 21 Spot painting structural steel 88 Substructure Sealing 39 Superstructure (other) Adojor 6 Enclaillea (6) Repetively almenance 122 Culvert Linear Repair 29 Backwall replacement/repair 25 |Bearing reset/replaced 141 Culvert Replace/Non-Bridge 27 Bridge diapering installation 4 Deck replacement 9 Collision damage 20 Painting structural steel 10 Concrete patching(non-deck) 89 Semi-Integral Abutment Conversion 42 Deck overlay(asphalt w waterproofing) 13 Structure Removal 41 Deck overlay(asphaltic concrete) 22 Structure steel repair 50 Deck patching(asphalt) 121 Tunnel liner installation 49 Deck patching(concrete) 48 Expansion joint repair/replacement New Construction 6 Graffiti removal 142 Culvert New/Non-Bridge 14 Heat Straightening-Under-Bridge Hit 5 Structure widening 26 Overhead concrete spall removal 1 Structure(new) 15 Raising Bridge 2 Structure(replacement) Superstructure replacement Comments . 認識を見いISCB/Idge(Costs)の意味が認識になる。 の時代には、 の時 No Work To Be Determined 12 Bridge Analysis BTAS - LEIDING ENDS TYPE 11 Bridge Inspection (Consultant) ເຊິ່ມເກີນໄລ ໃນກະປະເທດີ່ນີ້. 45 Deck Skid Resistance Retrofit (MGS) Trailing END-OUtside -type 2 Reconstruction Major Rehab (Use only for BMS Conv) SD/FO cannot be 0 & Suff Rating 50% or less Movable Bridge (Flx Costs) Trailin EUD -INSIDE-NOUR Yes Rehabilitation Unknown (Only w/BMS Conversion) SD/FO cannot be 0 & Suff Rating 80% or less No Work-Built 2018 - Cerdud rare it app slab Deck Summary Rating of 4 or less No General Lister Main Submit Deck Wearing Surface \$ 16.000 Paint Not Applicable

LOR-90-10.76 PID: 107714

6/16/2022 Date: 8/24/2020

Bridge No. LOR-90-1355 L

SFN: 4710002

Community	
61 Bridge railing upgrade/repair	Minor Rehabilitation 86 Abutment replacement/repair
87 Channel clean out	119 Approach (other)
81 Channel drift removal	102 Approach railing repair
143 Culvert Extension/Non-Bridge 120 Culvert Invert repair	101 Approach roadway profile correction 100 Approach slab replacement/repair
144 Culvert Repair/Non-Bridge	63 Bridge light installation/repair
47 Deck and abutment seat cleaning	61 Bridge railing upgrade/repair
46 Deck cathodic protection installation	10 [Concrete patching (non-deck)
40 Deck overlay(concrete)	139 Culvert (other)
43 Deck overlay(epoxy)	120 Culvert invert repair
44 Deck overlay(other)	159 Culvert Other/Non-Bridge
50 Deck patching (asphalt)	20 Deck patching (asphalt)
51 Deck Sealing (concrete)	49 Deck patching (concrete) 59 Deck surface
	62 Fence installation/repair
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	80 Foundation stabilization
$23$ [Fatigue retrofit] $36$ , $73$ /SY $\times$ (6991/SF + 2×30×69) = 7	8 Movable bridge(repair)
	20 Painting structural steel
24  Pin and Hanger retrofit 103  Pressure relief joint Installation = \$)] 000	85 Pier replacement/repair 84 Pile encasement
Raising-Bridge	103 Pressure relief joint installation
83 Scour prevention and correction	Raising Bridge
60 Sidewalk repair/replacement	60 Sidewalk repair/replacement
82 Slope repair & protection installation	82 Slope repair & protection
52 Spall Removal	22 Structure steel repair
21 Spot painting structural steel 88 Substructure Sealing	99 Substructure (other) 39 Superstructure (other)
	39  Superstructure (other)
silaration/villinghoman	Mojor in an ability of the second
29 Backwail replacement/repair	122 - Culvert Linear Repair
25 Bearing reset/replaced	141 Culvert Replace/Non-Bridge
27 Bridge diapering installation 9 Collision damage	4  Deck replacement     20  Painting structural steel
9 Collision damage 10 Concrete patching(non-deck)	20 Painting structural steel 89 Semi-Integral Abutment Conversion
42 Deck overlay(asphalt w waterproofing)	13 Structure Removal
41 Deck overlay(asphaltic concrete)	22 Structure steel repair
50 Deck patching(asphalt)	121 Tunnel liner installation
49 Deck patching(concrete)	
48 Expansion joint repair/replacement	New construction
6 Graffiti removal 14 Heat Straightening-Under-Bridge Hit	142 Culvert New/Non-Bridge     5 Structure widening
26 Overhead concrete spall removal	1 Structure(new)
15 Raising Bridge	2 Structure(replacement)
	3 Superstructure replacement
No Work	12 Bridge Analysis
	12     Bridge Analysis       11     Bridge Inspection (Consultant)       45     Deck Skid Resistance Retrofit       Major Rehab (Use only for BMS Conv)
ellalble for elditations	45 Deck Skid Resistance Retrofit (MGS) To 1: G. A. h. p. Two?
- Reconstruction	Major Rehab (Use only for BMS Conv)
SD/FO cannot be 0 & Suff Rating 50% or less	Movable Bridge (Fix Costs)
Yes     - Rehabilitation     SD/FO cannot be 0 & Suff Rating 80% or less	Unknown (Only w/BMS Conversion)
- Deck Summary Rating of 4 or less	Statistic General Comments and an
No No	
	Ata Litra R : 17 2017/ Deck good 6668 666
Comments	WO WORK - BUILT 2018 - Seal WISKS
General Construction	
Vearing Surface	Bridge Work Etimater
Paint Paint	A IL DOG NO Extra MOT
Not Applicable	\$ 11,000 No EXIMA MOT

6/16/	2022 LOR-90-10.76		
Date: 8/24/		LOR-90-1355R 5	FN: 4710003
<ul> <li>Bridge railing upgrade/repair.</li> <li>61. Bridge railing upgrade/repair.</li> <li>87 Channel drift removal</li> <li>143 Culvert Extension/Non-Bridge</li> <li>120 Culvert Invert repair</li> <li>144 Culvert Repair/Non-Bridge</li> <li>47 Deck and abutment seat cleaning</li> <li>46 Deck cathodic protection installation</li> <li>40 Deck overlay(concrete)</li> <li>43 Deck overlay(concrete)</li> <li>44 Deck overlay(concrete)</li> <li>50 Deck patching (concrete)</li> <li>51 Deck Sealing</li> <li>28 Drainage system cleaned/repaired</li> <li>48 Expansion joint repair/replacement</li> <li>29 Painting structural steel</li> <li>24 Pin and Hanger retrofit</li> <li>103 Pressure relief joint installation</li> <li>Raising Bridge</li> <li>83 Scour prevention and correction</li> <li>60 Sidewaik repair/replacement</li> <li>82 Slope repair &amp; protection installation</li> <li>52 Spot paining structural steel</li> <li>23 Spot paining structural steel</li> <li>24 Spot paining structural steel</li> <li>25 Stope repair &amp; protection installation</li> <li>26 Substructure Sealing</li> </ul>	512-Seal Deck & App Slabs W/ SRS \$8,75/SY × [71915F +2×30'×69']:9 =\$11,000	86       Abutment replacement/repair         112       Approach (other)         102       Approach railing repair         101       Approach railing repair         101       Approach railing repair         101       Approach railing repair         103       Approach railing repair         104       Approach railing repair         105       Approach railing upgrade/repair         106       Bridge railing upgrade/repair         107       Ocncrete patching (non-deck)         139       Culvert (other)         120       Culvert other/Non-Bridge         20       Deck patching (asphalt)         49       Deck patching (concrete)         59       Deck surface         62       Fence installation/repair         80       Foundation stabilization         8       Movable bridge(repair)         20       Painting structural steel         85       Pier replacement/repair         84       Pile encasement         103       Pressure relief joint installation         82       Slope repair & protection         22       Slope repair & protection         23       Substructure (other)         39       Su	
29       Backwall'replacement/repair         25       Bearing reset/replaced         27       Bridge diapering installation         9       Collision damage         10       Concrete patching(non-deck)         42       Deck overlay(asphalt w waterproofing)         41       Deck overlay(asphaltic concrete)         50       Deck patching(sonalt)         49       Deck patching(concrete)         48       Expansion joint repair/replacement         6       Graffiti removal         14       Heat Straightening-Under-Bridge Hit         26       Overhead concrete spall removal         15       Raising Bridge		Culvert Linear Repair     Culvert Linear Repair     141 Culvert Replace/Non-Bridge     4 Deck replacement     20 Painting structural steel     89 Semi-Integral Abutment Conversion     13 Structure Removal     22 Structure steel repair     121 Tunnel liner installation     142 Culvert New/Non-Bridge     5 Structure widening     1 Structure (new)	
No Work	comments with the second	2 Structure(replacement) 3 Superstructure replacement	al a and a state of the second state of the s
To Be Determined           Imitilizitar Skilladiscis           Yes	<ul> <li>Reconstruction</li> <li>SD/FO cannot be 0 &amp; Suff Rating 50% or less</li> <li>Rehabilitation</li> <li>SD/FO cannot be 0 &amp; Suff Rating 80% or less</li> <li>Deck Summary Rating of 4 or less</li> </ul>	12         Bridge Analysis           11         Bridge Inspection (Consultant)           45         Deck Skid Resistance Retrofit           Major Rehab (Use only for BMS Conv)         7           7         Movable Bridge (Fix Costs)           Unknown (Only w/BMS Conversion)	BTAS - LOODING ENDS - Type   (mGS) Trailing ENDS - Oulsion - Type Z) Trailing END - JUSIDE : Patter - Type   Trailing END - JUSIDE : Patter - Type
No Cartaria:Cartainational General Deck Wearing Surface Paint Not Applicable	<u>(Chunduis</u>	Nottork-Built 2018 #11,000	Deck good t7505F Seal w/SKS

LOR-90-10,76 aver Black River /Pork Ro 7/15/2022 Bridge No. LOR - 90 -14261 PID: 107714 SFN: 4704665 Date: mPreventive/Mainte Research Minor Rehabilitation and a structure 產業有效。如何就是這個人的是 Gomments Extra All Sector And The Sector All S 86 Abutment replacement/repair 61 Bridge railing upgrade/repair 87 Channel clean out 119 Approach (other) 512 - Treating Bridge Decks W/GFR 81 Channel drift removal 102 Approach railing repair Repair the horozontally oracled tops of 143 Cuivert Extension/Non-Bridge 101 Approach roadway profile correction (INC. App. Slabs) 100 Approach slab replacement/repair 120 Culvert invert repair Paropets. Seal repaired and w/ epoxy-144 Culvert Repair/Non-Bridge 63 Bridge light installation/repair 47 Deck and abutment seat cleaning \$13/y2 X 24,327sF +2x25'x64']=9 61 Bridge railing upgrade/repair Wethins, (Pric. App Slabs 95-Necoed) 46 Deck cathodic protection installation 10 Concrete patching (non-deck) 40 Deck overlay(concrete) 139 Culvert (other) = \$39,800 120 Culvert Invert repair 43 Deck overlay(epoxy) Estimates Cracking Leugths 159 Culvert Other/Non-Bridge 44 Deck overlay(other) \$39.8 50 Deck patching (asphalt) 20 Deck patching (asphalt) Exterior : 15 (sp. 2, P1) 49 Deck patching (concrete) 512 - Treating Bridge Decks w/ GFR 49 Deck patching (concrete) 51 Deck Sealing 59 Deck surface 28 Drainage system cleaned/repaired 62 Fence installation/repair INTUNCE: 8'(RA)+30' oua = 38' Misc.: 27' Trail \$620 (INC, App. Slabs) 48 Expansion joint repair/replacement 80 Foundation stabilization 23 Fatigue retrofit 8 Movable bridge(repair) 20 Painting structural steel 20 Painting structural steel (418'x2×4.42'/9)x \$54/54 = \$22,200 85 Pier replacement/repair 24 Pin and Hanger retrofit 103 Pressure relief joint installation 84 Pile encasement 103 Pressure relief joint installation Raising Bridge 80 × \$ 190/F = \$ 15,000 83 Scour prevention and correction Raising Bridge 60 Sidewalk repair/replacement 60 Sidewalk repair/replacement 82 Slope repair & protection installation 82 Slope repair & protection 52 Spall Removal 22 Structure steel repair 99 Substructure (other) 21 Spot painting structural steel 39 Superstructure (other 88 Substructure Sealing ЩорлинорШация Readively, all neurones comments ..... 29 Backwall replacement/repair 122 Culvert Linear Repair 25 Bearing reset/replaced 141 Culvert Replace/Non-Bridge 27 Bridge diapering installation 4 Deck replacement 9 Collision damage 20 Painting structural steel 10 Concrete patching(non-deck) 89 Semi-Integral Abutment Conversion 42 Deck overlay(asphalt w waterproofing) 13 Structure Removal 519 - Patching Cour. Bridge Deck PNS12-41 [Deck overlay(asphaltic concrete) 22 Structure steel repair 50 Deck patching(asphalt) 121 Tunnel liner Installation Type A) - Rear Lt. App SUB 49 Deck patching(concrete) 24 × 5 1/9 = 1454 × (\$ 600/54 × 1.20) 48 Expansion joint repair/replacement New Comments 6 Graffiti removal 142 Culvert New/Non-Bridge 14 Heat Straightening-Under-Bridge Hit 5 Structure widening = \$10,000 26 Overhead concrete spall removal 1 Structure(new) 15 Raising Bridge 2 Structure(replacement) Superstructure replacement Comments Miselficroscus and an extension of the second se No Work To Be Determined 12 Bridge Analysis BTAS - Letding Iwarde - Type 1 Jourside - Conc. Barrin 11 Bridge Inspection (Consultant Trailing ours -type 2 دغيرابانات تور عافا اللغا 45 Deck Skid Resistance Retrofit Barnell and million and aller alletter Reconstruction Major Rehab (Use only for BMS Conv) SD/FO cannot be 0 & Suff Rating 50% or less Movable Bridge (Fix Costs) Yes Rehabilitation Unknown (Only w/BMS Conversion) SD/FO cannot be 0 & Suff Rating 80% or less General Comments with the second s Deck Summary Rating of 4 or less Built 2013 - Moderate Scaling Failure No E Repair Categories improved Gomments MINOR Horizonha Parapet Top Cerebing General Lung-Workshimut Deck Wearing Surface 87.000 Paint Not Applicable

Date:	7/15/2022 LOR-90-10.76 <u>8/24/20</u> PID: 107714 Brid	OUCL Black Rivers / Park Rd ige No. LOR-90-1426R	SFN: 4704703
61       Bridge railing upgrade/re         61       Bridge railing upgrade/re         87       Channel clean out         81       Channel drift removal         143       Culvert Extension/Non-Bridg         120       Culvert Invert repair         144       Culvert Invert repair         144       Culvert Repair/Non-Bridg         47       Deck and abutment seat         46       Deck overlay(concrete)         43       Deck overlay(concrete)         43       Deck overlay(concrete)         44       Deck overlay(concrete)         50       Deck patching (asphalt)         49       Deck sealing         28       Drainage system cleaned         48       Expansion joint repair/repair/repair/repair         23       Fatigue retrofit         20       Painting structural steel         24       Pin and Hanger retrofit         103       Pressure relief Joint instal         Raising Bridge       83         83       Scour prevention and cor         60       Sidewalk repair/replacer         82       Spal Removal         23       Spal Removal         24       Spal Removal         <	idge       512 - Treating Concrete Budge Dec         e       w/ GFR (inc. App. Slabs)         cleaning       # 13/y3² x [24,327 sF + 2x 25 x 64];         installation       # 39,800         S12 - Renove continues freed invision         face flop - inc. App slabs         lation         (418'x 2 × 4,42'/9) x \$54/sy = \$22;	86       Abutment replacement/repair         119       Approach (other)         102       Approach (other)         101       Approach (other)         101       Approach railing repair         101       Approach slab replacement/repair         102       Bridge light installation/repair         63       Bridge light installation/repair         61       Bridge railing upgrade/repair         10       Concrete patching (non-deck)         133       Culvert (other)         120       Culvert other/Non-Bridge         20       Deck patching (concrete)         59       Deck surface         62       Fence installation/repair         80       Foundation stabilization         80       Foundation stabilization         20       Paintipe structural steal	Repair Repair the horrzowhelly - Cracked Hops of parapets, Seal repaired areas w/gooxy- urethan, (Inc. App. Slobs as-wadded) Estimated Cracking heights: Exterior: From Amp. Shib it 2' Interior: 40'over PI Misc.: 18'
29       Backwall replacement/replaced         25       Bearing reset/replaced         27       Bridge diapering installat         9       Collision damage         10       Concrete patching(non-d         42       Deck overlay(asphalt w w         41       Deck overlay(asphalt)         49       Deck patching(asphalt)         43       Deck patching(concrete)         43       Expansion joint repair/rep         6       Graffiti removal         14       Heat Straightening-Under         26       Overhead concrete spail i         15       Raising Bridge	on eck) aterproofing) ncrete) placement -Bridge Hit	122 - Culvert Linear Repair         141       Culvert Replace/Non-Bridge         4       Deck replacement         20       Painting structural steel         89       Semi-Integral Abutment Conversio         13       Structure Removal         22       Structure steel repair         121       Tunnel liner Installation         142       Culvert New/Non-Bridge         5       Structure widening         1       Structure(replacement)	
No Work       To Be Determined       To Be Determined       Yes       No       General       Deck       Wearing Surface       Paint       Not Applicable	- Reconstruction SD/FO cannot be 0 & Suff Rating 50% or less - Rehabilitation SD/FO cannot be 0 & Suff Rating 80% or less - Deck Summary Rating of 4 or less	12 Bridge Analysis 12 Bridge Analysis 11 Bridge Inspection (Consultant) 45 Deck Skid Resistance Retrofit Major Rehab (Use only for BMS 7 Movable Bridge (Fix Costs) Unknown (Only w/BMS Conver Built 2013 - Moderate Built 2013 - Mision H	sion)

10R-90-10.76 our FORD RD. Bridge No. LOR - 90 - 1443 L SEN: 4704738 PID: 107714 Date: 3/24/20 Minute Representation Preventive Maintenance station and a station of the state of the st 61 Bridge railing upgrade/repair 86 Abutment replacement/repair 87 Channel clean out 512 - Treating Concerto Bridge Decks w/ 119 Approach (other) Repair the horizontally-cracked tops of 81 Channel drift removal 102 Approach railing repair 101. Approach roadway profile correction 143 Culvert Extension/Non-Bridge GFR (inc. App Slabs) 100 Approach slab replacement/repair 120 Culvert invert repair parapets. Seal repaired allos u/ epoxy-#13/yd × [9848sF +2×25×62] == 63 Bridge light installation/repair 144 Culvert Repair/Non-Bridge 61 Bridge railing upgrade/repair 47 Deck and abutment seat cleaning irethave, (Onc. app. slabs as-weeded) 46 Deck cathodic protection installation 10 Concrete patching (non-deck) = \$ 18,700 139 Culvert (other) 40 Deck overlay(concrete) 120 Culvert invert repair 43 Deck overlay(epoxy) Estimated Cerclin legths: 159 Culvert Other/Non-Bridge 44 Deck overlay(other) 512 - Renove Coatings & rescal inside 20 Deck patching (asphalt) 50 Deck patching (asphalt) 49 Deck patching (concrete) 49 Deck patching (concrete) Exterior: 0 59 51 Deck Sealing Deck surface Face 4 top - 12 cluding App slabs ([192,5+182.5']×4,42"/9)×\$54/59 = 62 Fence installation/repair 28 Drainage system cleaned/repaired INFERRE : 4/143 50' + x2x50% = 50' 80. 48 Expansion joint repair/replacement Foundation stabilization 8 23 Fatigue retrofit Movable bridge(repair) Mise, O 20 Painting structural steel 20 Painting structural steel 85 Pier replacement/repair 24 Pin and Hanger retrofit 84 Pile encasement \$ 10.000 103 Pressure relief joint installation 103 Pressure relief joint installation Raising-Bridge 83 Scour prevention and correction **Raising Bridge** 5.0 × \$ 199/15 = \$9,300 60 Sidewalk repair/replacement 60 Sidewalk repair/replacement 82 Slope repair & protection 82 Slope repair & protection installation 22 Structure steel repair 52 |Spall Removal 99 Substructure (other) 21 Spot painting structural steel 39 Superstructure (other) 88 Substructure Sealing Mujor Bellapillation Reactive Maintenance Comments ..... 122 Culvert Linear Repair 29 Backwall replacement/repair 25 Bearing reset/replaced 141 Culvert Replace/Non-Bridge 27 Bridge diapering Installation 4 Deck replacement 20 Painting structural steel 9 Collision damage 10 Concrete patching(non-deck) 89 Semi-Integral Abutment Conversion 13 Structure Removal 42 Deck overlay(asphalt w waterproofing) 41 Deck overlay(asphaltic concrete) 22 Structure steel repair 50 Deck patching(asphalt) 121 Tunnel liner installation 49 Deck patching(concrete) Wallcollbuildull 48 Expansion joint repair/replacement 6 Graffiti removal 142 Culvert New/Non-Bridge 14 Heat Straightening-Under-Bridge Hit 5 Structure widening 26 Overhead concrete spall removal 1 Structure(new) 15 Raising Bridge 2 Structure(replacement) Superstructure replacement <u>Comments</u> MENDING CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONT No Work 12 Bridge Analysis To Be Determined BTAS - LEADING ENDS - Type 1 11 Bridge Inspection (Consultant) בוויוטוב ער שוויגעוענים 45 Deck Skid Resistance Retrofit change and the state of this of the state of Trailing - outside - Cone- Barrow Reconstruction Major Rehab (Use only for BMS Conv) INSIDE - Type 2 SD/FO cannot be 0 & Suff Rating 50% or less Movable Bridge (Fix Costs) Yes Rehabilitation Unknown (Only w/BMS Conversion) SD/FO cannot be 0 & Suff Rating 80% or less Several General Gomments and the several Deck Summary Rating of 4 or less No - Exterior Parapet has moderate /henry Sculing failures Built 2013 \* Note Jacked up asphilt curbs by one App Ships Cuterprises in Derved Gommentes General Broge-Work Stimute Deck Wearing Surface Paint \$ 38.000 Not Applicable

over FORD Rd. 10R-90-10,76 Bridge No. LOR - 90 - 1443 R SEN: 4704754 Date: 8/24/20 PID: 107714 Preventive/Maintenanceseik Minor Chebilitation acomination 61 Bridge railing upgrade/repair 119 Approach (other) 87 Channel clean out Repair the horizontally - cracted tops of parapets. Seal repaired areas w/ 512-Treating Concrete Bridge Decks 102 Approach railing repair 81 Channel drift removal 143 Culvert Extension/Non-Bridge 101. Approach roadway profile correction W/ GFR (INC. App Slabs). 100 Approach slab replacement/repair 120 Culvert invert repair 63 Bridge light installation/repair 144 Culvert Repair/Non-Bridge 61 Bridge railing upgrade/repair 47 Deck and abutment seat cleaning cpoxy-undlian, (Inc. app. Salowall 9 \$13/y2×[11,6365F+2×25×62]?9= 46 Deck cathodic protection installation 10 Concrete patching (non-deck) 139 Culvert (other) 40 Deck overlay(concrete) 120 Culvert invert repair transition as weeded 43 Deck overlay(epoxy) \$ 21,300 159 Culvert Other/Non-Bridge 44 Deck overlay(other) 20 Deck patching (asphalt) 50 Deck patching (asphalt) Estimated oracking husth; 49 Deck patching (concrete) 49 Deck patching (concrete) 512 - Remove COATINGS & reseal inside Face Stop -INC. App Slobs 59 Deck surface 51 Deck Sealing Exterior : Sp 143 50' × 2 ×1/2± = 50' ± 62 Fence installation/repair 28 Drainage system cleaned/repaired 80 Foundation stabilization 48 Expansion joint repair/replacement 8 Movable bridge(repair) INTERIOR : 50 183 50 x2x 1/2 = 50'1 23 Fatigue retrofit 20 Painting structural steel 20 Painting structural steel [211'+220']×4,42/9)×\$54/54-\$11,500 Misc. : C 85 Pier replacement/repair 24 Pin and Hanger retrofit 84 Pile encasement 103 Pressure relief joint installation 103 Pressure relief joint installation 100 Raising Bridge Raising Bridge 83 Scour prevention and correction 60 Sidewalk repair/replacement 60 Sidewalk repair/replacement 100'x \$190/15 = 19,200 82 Slope repair & protection 82 Slope repair & protection installation 22 Structure steel repair 52 Spall Removal 99 Substructure (other) 21 Spot painting structural steel 39 Superstructure (other) 88 Substructure Sealing MojonRenopilitation as a substantial sector and a substantial comments and a substantial substantial substantia iiidandu du fallandarad 122 Cuivert Linear Repair 29 Backwall replacement/repair 141 Culvert Replace/Non-Bridge 25 Bearing reset/replaced 27 Bridge diapering installation 4 Deck replacement 20 Painting structural steel 9 Collision damage 89 Semi-Integral Abutment Conversion 10 Concrete patching(non-deck) 13 Structure Removal 42 Deck overlay(asphalt w waterproofing) 22 Structure steel repair 41 Deck overlay(asphaltic concrete) 50 Deck patching(asphalt) 121 Tunnel liner installation 49 (Deck patching(concrete) NEW construction 48 Expansion joint repair/replacement 142 Culvert New/Non-Bridge 6 Graffiti removal 14 Heat Straightening-Under-Bridge Hit 5 Structure widening 26 Overhead concrete spall removal 1 Structure(new) 15 Raising Bridge 2 Structure(replacement) 3 Superstructure replacement Comments and the second sec IN THIS Brage Costs and the second No Work 12 Bridge Analysis To Be Determined BTAS - LENDING ENDS - INSIDE - TYPE 11 Bridge Inspection (Consultant 45 Deck Skid Resistance Retrofit OUTSIDE - TONC, BACTTON Major Rehab (Use only for BMS Conv) Reconstruction Trailing Euro - Outside - Conc. Barrin Inside - holes FORTYPE 1 STYPE 2 SD/FO cannot be 0 & Suff Rating 50% or less Movable Bridge (Fix Costs) Unknown (Only w/BMS Conversion) Yes Rehabilitation SD/FO cannot be 0 & Suff Rating 80% or less Were an General Gomments and an and an and an an an and an and an and the second states and an an an and Deck Summary Rating of 4 or less Ext. Parapet has moderate / heavy sealing failure No Gaterianies (n) proved comments and the second state General BridgerWeine Stimute, and Statement and Statem Deck Wearing Surface Paint Not Applicable

	1
6/16/22 LOR-90-10.76 Date: 8/24/20 PID: 107714 Bridge No	
6/16/22 LOR-90-10,76 Date: 8/24/20 PID: 107714 Bridge No	. LOR-90-1478 SFN: 4704789
Date. FID. TO TITE DITUGE NO	<u>, 101) d. 1110 JEN. 110101</u>
11 PR-22 Distance in the second se	Comments
61 Bridge railing upgrade/repair 87 Channel clean out	86 Abutment replacement/repair 119 Approach (other)
81 Channel drift removal	102 Approach railing repair
143 Culvert Extension/Non-Bridge 120 Culvert Invert repair	101. Approach roadway profile correction 100 Approach slab replacement/repair
144  Culvert Repair/Non-Bridge	63 Bridge light installation/repair
47 Deck and abutment seat cleaning 46 Deck cathodic protection installation	61 Bridge railing upgrade/repair 10 Concrete patching (non-deck)
40 [Deck overlay(concrete)	139 [Culvert (other)
43 Deck overlay(epoxy) 44 Deck overlay(other)	120 Culvert Invert repair 159 Culvert Other/Non-Bridge
50 Deck patching (asphalt)	20 Deck patching (asphalt)
49 Deck patching (concrete) 51 Deck Sealing	49 Deck patching (concrete) 59 Deck surface
28 Drainage system cleaned/repaired	62 Fence installation/repair
48 Expansion joint repair/replacement     23 Fatigue retrofit	80° Foundation stabilization 8 Movable bridge(repair)
20 Painting structural steel	20 Painting structural steel
24 Pin and Hanger retrofit 103 Pressure relief joint installation	85 Pier replacement/repair 84 Pile encasement
Raising Bridge	103 Pressure relief joint installation
83 Scour prevention and correction     60 Sidewalk repair/replacement	60 Sidewalk repair/replacement
82 Slope repair & protection installation	82 Slope repair & protection
52 Spall Removal 21 Spot painting structural steel	22 Structure steel repair 99 Substructure (other)
88 Substructure Sealing	39 Superstructure (other)
เ เห <i>ลือดีส่งวางเป็นการแนเหล</i> า	Koonalia (Comments
29 Backwallreplacement/repair	Mojornullanian
29 Backwall replacement/repair 25 Bearing reset/replaced 27 Bridge diapering installation	
29     Backwall'replacement/repair       25     Bearing reset/replaced       27     Bridge diapering installation       9     Collision damage	122 · Culvert Linear Repair       141 · Culvert Replace/Non-Bridge       4 · Deck replacement       20 · Painting structural steel
29     Backwall'replacement/repair       25     Bearing reset/replaced       27     Bridge diapering installation       9     Collision damage       10     Concrete patching(non-deck)	122 · Culvert Linear Repair       141. Culvert Replace/Non-Bridge       4. Deck replacement
29     Backwall'replacement/repair       25     Bearing reset/replaced       27     Bridge diapering installation       9     Collision damage       10     Concrete patching(non-deck)       42     Deck overlay(asphalt w waterproofing)       41     Deck overlay(asphaltic concrete)	122 - Culvert Linear Repair         141       Culvert Replace/Non-Bridge         4       Deck replacement         20       Painting structural steel         89       Semi-Integral Abutment Conversion         13       Structure Removal         22       Structure steel repair
29     Backwall'replacement/repair       25     Bearing reset/replaced       27     Bridge diapering Installation       9     Collision damage       10     Concrete patching(non-deck)       42     Deck overlay(asphalt w waterproofing)       41     Deck overlay(asphaltic concrete)       50     Deck patching(asphalt)	122 · Culvert Linear Repair         141 · Culvert Replace/Non-Bridge         4 Deck replacement         20 Painting structural steel         89 Semi-Integral Abutment Conversion         13 Structure Removal
29       Backwall replacement/repair         25       Bearing reset/replaced         27       Bridge diapering installation         9       Collision damage         10       Concrete patching(non-deck)         42       Deck overlay(asphalt w waterproofing)         41       Deck overlay(asphalt concrete)         50       Deck patching(sophalt)         43       Deck patching(concrete)         48       Expansion joint repair/replacement	122 Culvert Linear Repair         141 Culvert Replace/Non-Bridge         4 Deck replacement         20 Painting structural steel         89 Semi-Integral Abutment Conversion         13 Structure Removal         22 Structure steel repair         121 Tunnel liner installation
29       Backwall replacement/repair         25       Bearing reset/replaced         27       Bridge diapering installation         9       Collision damage         10       Concrete patching(non-deck)         42       Deck overlay(asphalt w waterproofing)         41       Deck overlay(asphaltic concrete)         50       Deck patching(sphalt)         49       Deck patching(concrete)         48       Expansion joint repair/replacement         6       Graffiti removal	122 ° Culvert Linear Repair         141       Culvert Replace/Non-Bridge         4       Deck replacement         20       Painting structural steel         89       Semi-Integral Abutment Conversion         13       Structure Removal         22       Structure steel repair         121       Tunnel liner installation
29       Backwall'replacement/repair         25       Bearing reset/replaced         27       Bridge diapering Installation         9       Collision damage         10       Concrete patching(non-deck)         42       Deck overlay(asphalt w waterproofing)         41       Deck overlay(asphaltic concrete)         50       Deck patching(concrete)         43       Deck patching(concrete)         44       Expansion joint repair/replacement         6       Graffiti removal         14       Heat Straightening-Under-Bridge Hit         26       Overhead concrete spail removal	122 - Culvert Linear Repair         141 - Culvert Replace/Non-Bridge         4 - Deck replacement         20 - Painting structural steel         89 - Semi-Integral Abutment Conversion         131 - Structure Removal         222 - Structure steel repair         1211 - Tunnel liner Installation         142 - Culvert New/Non-Bridge         5 - Structure videning         1 - Structure(new)
29       Backwall replacement/repair         25       Bearing reset/replaced         27       Bridge diapering installation         9       Collision damage         10       Concrete patching(non-deck)         42       Deck overlay(asphalt w waterproofing)         41       Deck overlay(asphaltic concrete)         50       Deck patching(sphalt)         49       Deck patching(concrete)         48       Expansion joint repair/replacement         6       Graffiti removal         14       Heat Straightening-Under-Bridge Hit         26       Overhead concrete spall removal         15       Raising Bridge	122 - Culvert Linear Repair         141 - Culvert Replace/Non-Bridge         4 - Deck replacement         20 - Painting structural steel         89 - Semi-Integral Abutment Conversion         13 - Structure Removal         22 - Structure steel repair         121 - Tunnel liner Installation         Comments         142 - Culvert New/Non-Bridge         5 - Structure widening
29       Backwall replacement/repair         25       Bearing reset/replaced         27       Bridge diapering installation         9       Collision damage         10       Concrete patching(non-deck)         42       Deck overlay(asphalt w waterproofing)         41       Deck overlay(asphaltic concrete)         50       Deck patching(asphalt)         49       Deck patching(concrete)         48       Expansion joint repair/replacement         6       Graffiti removal         14       Heat Straightening-Under-Bridge Hit         26       Overhead concrete spall removal         15       Raising Bridge	122 - Culvert Linear Repair         141       Culvert Replace/Non-Bridge         4       Deck replacement         20       Painting structural steel         89       Semi-Integral Abutment Conversion         13       Structure Removal         22       Structure steel repair         121       Tunnel liner installation         Comments         42:       Culvert New/Non-Bridge         5       Structure widening         1       Structure(new)         2       Structure(replacement)         3       Superstructure replacement
29       Backwall replacement/repair         25       Bearing reset/replaced         27       Bridge diapering installation         9       Collision damage         10       Concrete patching(non-deck)         42       Deck overlay(asphalt w waterproofing)         41       Deck overlay(asphaltic concrete)         50       Deck patching(sphalt)         49       Deck patching(concrete)         48       Expansion joint repair/replacement         6       Graffiti removal         14       Heat Straightening-Under-Bridge Hit         26       Overhead concrete spall removal         15       Raising Bridge	122 - Culvert Linear Repair         141 - Culvert Replace/Non-Bridge         4 - Deck replacement         20 - Painting structural steel         89 - Semi-Integral Abutment Conversion         13 - Structure Removal         22 - Structure steel repair         121 - Tunnel liner Installation         Comments         142 - Culvert New/Non-Bridge         5 - Structure widening         1 - Structure (new)         2 - Structure (new)         2 - Structure(new)
29       Backwall replacement/repair         25       Bearing reset/replaced         27       Bridge diapering installation         9       Collision damage         10       Concrete patching(non-deck)         42       Deck overlay(asphalt w waterproofing)         41       Deck overlay(asphalt concrete)         50       Deck patching(concrete)         49       Deck patching(concrete)         43       Deck patching(concrete)         44       Expansion joint repair/replacement         6       Graffiti removal         14       Heat Straightening-Under-Bridge Hit         26       Overhead concrete spali removal         15       Raising Bridge         No Work       To Be Determined	122 - Culvert Linear Repair         141 - Culvert Replace/Non-Bridge         4 - Deck replacement         20 - Painting structural steel         89 - Semi-Integral Abutment Conversion         13 - Structure Removal         22 - Structure steel repair         121 - Tunnel liner installation         142 - Culvert New/Non-Bridge         5 - Structure widening         1 - Structure(new)         2 - Structure replacement)         3 - Superstructure replacement)         3 - Superstructure replacement         12 - Bridge Analysis         11 - Bridge Inspection (Consultant)
29       Backwall replacement/repair         25       Bearing reset/replaced         27       Bridge diapering installation         9       Collision damage         10       Concrete patching(non-deck)         42       Deck overlay(asphalt w waterproofing)         41       Deck overlay(asphaltic concrete)         50       Deck patching(sphalt)         49       Deck patching(concrete)         48       Expansion joint repair/replacement         6       Graffiti removal         14       Heat Straightening-Under-Bridge Hit         26       Overhead concrete spall removal         15       Raising Bridge         No Work       To Be Determined         Comments         Aconstruction	122 - Culvert Linear Repair         141 - Culvert Replace/Non-Bridge         4 - Deck replacement         20 - Painting structural steel         89 - Semi-Integral Abutment Conversion         13 - Structure Removal         22 - Structure steel repair         121 - Tunnel liner Installation         142 - Culvert New/Non-Bridge         5 - Structure widening         1 - Structure (replacement)         3 - Superstructure replacement)         3 - Superstructure replacement         2 - Bridge Analysis
29       Backwall replacement/repair         25       Bearing reset/replaced         27       Bridge diapering installation         9       Collision damage         10       Concrete patching(non-deck)         42       Deck overlay(asphalt w waterproofing)         41       Deck overlay(asphalt concrete)         50       Deck overlay(asphaltic concrete)         50       Deck patching(concrete)         48       Expansion joint repair/replacement         6       Graffiti removal         14       Heat Straightening-Under-Bridge Hit         26       Overhead concrete spail removal         15       Raising Bridge         No Work       To Be Determined         Comments         Comments         No Work       To Be Determined         Comments         SD/FO cannot be 0 & Suff Rating 50% or less	122 - Culvert Linear Repair         141 - Culvert Replace/Non-Bridge         4 - Deck replacement         20 - Painting structural steel         89 - Semi-Integral Abutment Conversion         13 - Structure Removal         22 - Structure steel repair         121 - Tunnel liner installation         142 - Culvert New/Non-Bridge         5 - Structure widening         1 - Structure(new)         2 - Structure replacement)         3 - Superstructure replacement)         3 - Superstructure replacement         Conments         Contraction (Consultant)         45 - Deck Skid Resistance Retrofit         Major Rehab (Use only for BMS Conv)
29       Backwall replacement/repair         25       Bearing reset/replaced         27       Bridge diapering installation         9       Collision damage         10       Concrete patching(non-deck)         42       Deck overlay(asphalt w waterproofing)         41       Deck overlay(asphalt concrete)         50       Deck patching(concrete)         43       Deck patching(concrete)         44       Expansion joint repair/replacement         6       Graffiti removal         14       Heat Straightening-Under-Bridge Hit         26       Overhead concrete spall removal         15       Raising Bridge         No Work       To Be Determined         Feconstruction         SD/FO cannot be 0 & Suff Rating 50% or less         Yes       Pole Cannot be 0 & Suff Rating 80% or less	122 Culvert Linear Repair         143 Culvert Replace/Non-Bridge         4 Deck replacement         20 Paining structural steel         89 Semi-Integral Abutment Conversion         13 Structure Removal         22 Structure steel repair         121 Tunnel liner installation         Comments         142 Culvert New/Non-Bridge         5 Structure widening         1 Structure(new)         2 Structure(new)         2 Structure replacement)         3 Superstructure replacement         3 Superstructure replacement         12 Bridge Analysis         11 Bridge Inspection (Consultant)         45 Deck Skid Resistance Retrofit         Major Rehab (Use only for BMS Convy)         7 Movable Bridge (Fix Costs)         Unknown (Only w/BMS Conversion)
29       Backwall replacement/repair         25       Bearing reset/replaced         27       Bridge diapering installation         9       Collision damage         10       Concrete patching(non-deck)         42       Deck overlay(asphalt w waterproofing)         41       Deck overlay(asphalt concrete)         50       Deck patching(concrete)         43       Deck patching(concrete)         44       Expansion joint repair/replacement         6       Graffiti removal         14       Heet Straightening-Under-Bridge Hit         26       Overhead concrete spail removal         15       Raising Bridge         No Work       To Be Determined         Feconstruction         SD/FO cannot be 0 & Suff Rating 50% or less         Yes       SD/FO cannot be 0 & Suff Rating 80% or less         - Deck Summary Rating of 4 or less	122 - Culvert Linear Repair         141 - Culvert Replace/Non-Bridge         4 - Deck replacement         20 - Painting structural steel         89 - Semi-Integral Abutment Conversion         13 - Structure Removal         22 - Structure steel repair         121 - Tunnel liner installation         142 - Culvert New/Non-Bridge         5 - Structure widening         1 - Structure(new)         2 - Structure replacement)         3 - Superstructure replacement)         3 - Superstructure replacement         Conments         Contraction (Consultant)         45 - Deck Skid Resistance Retrofit         Major Rehab (Use only for BMS Conv)
29       Backwall replacement/replaced         27       Bridge diapering installation         9       Collision damage         10       Concrete patching(non-deck)         42       Deck overlay(asphalt waterproofing)         41       Deck overlay(asphalt concrete)         50       Deck patching(soncrete)         43       Expansion joint repair/replacement         6       Graffit removal         14       Heat Straightening-Under-Bridge Hitt         26       Overhead concrete spail removal         15       Raising Bridge         No Work       To Be Determined         SD/FO cannot be 0 & Suff Rating 50% or less         Yes       No         No       No         No       Deck Summary Rating of 4 or less	122       Culvert Linear Repair         141       Culvert Replace/Non-Bridge         4       Deck replacement         20       Painting structural steel         89       Semi-Integral Abutment Conversion         13       Structure Removal         22       Structure steel repair         121       Tunnel liner Installation         142       Culvert New/Non-Bridge         5       Structure widening         1       Structure replacement)         3       Superstructure replacement)         3       Superstructure replacement)         3       Superstructure replacement)         3       Superstructure replacement)         3       Bridge Inspection (Consultant)         45       Deck Skid Resistance Retrofit         Major Rehab (Use only for BMS Conversion)       Maudata Val. Clauma, Apossula, (17, 44)
29       Backwallreplacement/repair         25       Bearing reset/replaced         27       Bridge diapering installation         9       Collision damage         10       Concrete patching(non-deck)         42       Deck overlay(asphalt w waterproofing)         41       Deck overlay(asphalt w concrete)         50       Deck patching(concrete)         48       Expansion joint repair/replacement         6       Graffiti removal         14       Heat Straightening-Under-Bridge Hit         26       Overhead concrete spail removal         15       Raising Bridge         No Work       To Be Determined         15       Reconstruction         SD/FO cannot be 0 & Suff Rating 50% or less         Yes       No         No       SD/FO cannot be 0 & Suff Rating 80% or less         No       Deck Summary Rating of 4 or less	122       Culvert Linear Repair         141       Culvert Replace/Non-Bridge         4       Deck replacement         20       Painting structural steel         89       Semi-Integral Abutment Conversion         13       Structure Removal         22       Structure steel repair         121       Tunnel liner Installation         142       Culvert New/Non-Bridge         5       Structure widening         1       Structure replacement)         3       Superstructure replacement)         3       Superstructure replacement)         3       Superstructure replacement)         3       Superstructure replacement)         3       Bridge Inspection (Consultant)         45       Deck Skid Resistance Retrofit         Major Rehab (Use only for BMS Conversion)       Maudata Val. Clauma, Apossula, (17, 44)
29       Backwall'replacement/replar         25       Bearing reset/replaced         27       Bridge diapering installation         9       Collision damage         10       Concrete patching(non-deck)         42       Deck overlay(asphalt w waterproofing)         11       Deck overlay(asphaltic concrete)         50       Deck patching(concrete)         48       Expansion joint repair/replacement         6       Graffiti removal         14       Heat Straightening-Under-Bridge Hit         26       Overhead concrete spail removal         15       Raising Bridge         No Work       To Be Determined         Control Strategies         Yes       - Reconstruction         SD/FO cannot be 0 & Suff Rating 50% or less         - Rehabilitation       SD/FO cannot be 0 & Suff Rating 80% or less         - Deck Summary Rating of 4 or less         No       Contended of 4 or less	122 Culvert Linear Repair         143 Culvert Replace/Non-Bridge         4 Deck replacement         20 Paining structural steel         89 Semi-Integral Abutment Conversion         13 Structure Removal         22 Structure steel repair         121 Tunnel liner installation         Comments         142 Culvert New/Non-Bridge         5 Structure widening         1 Structure(new)         2 Structure(new)         2 Structure replacement)         3 Superstructure replacement         3 Superstructure replacement         12 Bridge Analysis         11 Bridge Inspection (Consultant)         45 Deck Skid Resistance Retrofit         Major Rehab (Use only for BMS Convy)         7 Movable Bridge (Fix Costs)         Unknown (Only w/BMS Conversion)
29       Backwall'replacement/replar         25       Bearing reset/replaced         27       Bridge diapering installation         9       Collision damage         10       Concrete patching(non-deck)         42       Deck overlay(asphaltic concrete)         50       Deck patching(concrete)         48       Expansion joint repair/replacement         6       Graffiti removal         14       Heat Straightening-Under-Bridge Hit         26       Overhead concrete spail removal         15       Raising Bridge         No work       To Be Determined         Construction         SD/FO cannot be 0 & Suff Rating 50% or less         Peck Suff Rating 80% or less         No         No         Goldeneral	1322       Culvert Replace/Non-Bridge         143       Culvert Replace/Non-Bridge         4       Deck replacement         20       Painting structural steel         89       Semi-Integral Abutment Conversion         13       Structure Removal         121       Turnel liner installation         142       Culvert New/Aon-Bridge         123       Turnel liner installation         1442       Culvert New/Aon-Bridge         5       Structure widening         1       Structure (replacement)         2       Structure replacement         2       Structure (replacement)         3       Superstructure replacement         2       Structure (replacement)         3       Superstructure replacement         2       Bridge Analysis         13       Bridge Inspection (Consultant)         45       Deck Skid Resistance Retrofit         1       Major Rehab (Use only for BMS Conv)         7       Movable Bridge (Fix Costs)         10       Major Rehab (Use only for BMS Conv)         7       Movable Bridge (Fix Costs)         10       Unknown (Only w/BMS Conversion)         11       Mayable Bridge (Fix Costs)

Rw 7/11/22	LOR-90-10.76	Juugebuth D Idge No. LOR - 90-1	itch	17
Date: 374170	<u>PID: 107714</u> Bri	dge No. LOR - 90-1	658 <u>sfn:</u>	47 04800
	scontaria.			Sector Comments and the Comments of the sector of the sect
61         Bridge railing upgrade/repair           87         Channel clean out           81         Channel drift removal           143         Culvert Extension/Non-Bridge           120         Culvert invert repair		119 Approac 102 Approac 101 Approac	h railing repair h roadway profile correction	
144         Culvert Repair/Non-Bridge           47         Deck and abutment seat cleaning           46         Deck cathodic protection installation           40         Deck overlay(concrete)		61 Bridger 10 Concret 139 Culvert	ight installation/repair alling upgrade/repair e patching (non-deck) (other)	Concrete bruert 14'-3" × 8'-11" × 286Ff (apply cove. Field pairies x8' op walls) +Discrete 286' × \$600 /A = 171,600 Repairs USE \$172,000 (say 24)
44 Deck overlay(other) 50 Deck patching (asphalt) 49 Deck patching (concrete) 51 Deck Sealing		159 Culvert 20 Deck pa 49 Deck pa 59 Deck su	Other/Non-Bridge tching (asphalt) tching (concrete) rface	(apply cove. Field pairing 1.5 + Discrite 286 × \$600 /A = 171, 600 Repairs
28         Drainage system cleaned/repaired           49         Expansion joint repair/replacement           23         Fatigue retrofit           20         Palnting structural steel           24         Pin and Hanger retrofit		80 Foundat 8 Movabl 20 Painting	Istaliation/repair Iton stabilization e bridge(repair) ; structural steel lacement/repair	USC \$172,000 (say 24 erd)
103         Pressure relief joint installation           Raising Bridge         83           Scour prevention and correction         60           SIdewalk repair/replacement         100		84 Pile enc 103 Pressure Raising 60 Sidewal	asement e relief joint installation Bridge k repair/replacement	
82         Slope repair & protection installation           52         Spall Removal           21         Spot painting structural steel           88         Substructure Sealing		22 Structur 99 Substru	c sreet i chait	R. 2021 - 79759 LOR-10-6.73 Living Flating 169,560 - 90,000 )/162 = \$500/A × 20% = \$600/A.
29 Backwall replacement/repair 25 Bearing reset/replaced	າວາມເພື່ອການເຮັດຄະແຫຼງ ແລະ	Culvert L		Comments
27 Bridge diapering Installation 9 Collision damage		4 Deck rep 20 Painting	lacement structural steel	
10         Concrete patching(non-deck)           42         Deck overlay(asphalt w waterproofing)           41         Deck overlay(asphaltic concrete)           50         Deck patching(asphalt)		13 Structure 22 Structure	egral Abutment Conversion 2 Removal 2 steel repair ner Installation	
49 Deck patching(concrete) 48 Expansion Joint repair/replacement 6 Graffiti removal 14 Uset Schlebten Joint - Dates 1915		142 Culvert	New/Non-Bridge	Comments and Annual States and Annual S
14         Heat Straightening-Under-Bridge Hit           26         Overhead concrete spall removal           15         Raising Bridge		1 Structur 2 Structur 3 Superstr	e widening e(new) e(replacement) ructure replacement	
No Work To Be Determined	Gomments	12 Bridge A		<u>comments are statisticated and statisticated an</u>
	- Reconstruction	45 Deck Sk Major R	ld Resistance Retrofit ehab (Use only for BMS Conv)	Paunis
Yes	SD/FO cannot be 0 & Suff Rating 50% or less - Rehabilitation SD/FO cannot be 0 & Suff Rating 80% or less - Deck Summary Rating of 4 or less	Unknow	e Bridge (Fix Costs) /n (Only w/BMS Conversion)	Address Readway done pu plan
No				
General	an a		CU.	weit nated "6" W/Problems
Wearing Surface		THE PLANNER PLANE TO	I	

		FRENCH Creek Rd over		]
6/16/22 Date: 8/24/20	Lor-90-10.76 PID: 107714 Bridge	No. LOR-96-1753	SFN: 4704835	
		and the second		
61  Bridge railing upgrade/repair	o <mark>GDUUU.UI</mark> .taa	86 Abutment replacement/repair	Comments	的行业运行的注意的标用
87 Channel clean out		119 Approach (other) 102 Approach railing repair		
81 Channel drift removal 143 Culvert Extension/Non-Bridge		101 Approach roadway profile corre		
120 Culvert invert repair 144 Culvert Repair/Non-Bridge		100 Approach slab replacement/rep 63 Bridge light installation/repair		
47 Deck and abutment seat cleaning	· ·	61 Bridge railing upgrade/repair		
46 Deck cathodic protection installation 40 Deck overlay(concrete)		10 Concrete patching (non-deck) 139 Culvert (other)		
43 Deck overlay(epoxy)		120 Culvert invert repair 159 Culvert Other/Non-Bridge		
44 Deck overlay(other) 50 Deck patching (asphalt)		20 Deck patching (asphalt)		
49 Deck patching (concrete) 51 Deck Sealing		49 Deck patching (concrete) 59 Deck surface		
28 Drainage system cleaned/repaired		62 Fence installation/repair		
48 Expansion joint repair/replacement 23 Fatigue retrofit		80' Foundation stabilization 8 Movable bridge(repair)		
20 Painting structural steel		20 Painting structural steel 85 Pler replacement/repair		
24 Pin and Hanger retrofit 103 Pressure relief joint installation		84 Pile encasement		
Raising Bridge 83 Scour prevention and correction		103 Pressure relief joint installation Raising Bridge	<u></u>	,
60 Sidewalk repair/replacement		60 Sidewalk repair/replacement		
82 Slope repair & protection installation 52 Spall Removal		82 Slope repair & protection 22 Structure steel repair		
21 Spot painting structural steel		99 Substructure (other)		
88 Substructure Sealing		39 Superstructure (other)		The south conversion of the souther the souther souther souther souther souther souther souther souther souther
29 Backwall replacement/repair	Sindia and S	122 · Culvert Linear Repair	<u>Comments</u>	新生物的時間的時間
25 Bearing reset/replaced		141         Culvert Replace/Non-Bridge           4         Deck replacement		
27 Bridge diapering installation 9 Collision damage		20 Painting structural steel		
10 Concrete patching(non-deck)		89 Semi-Integral Abutment Conversio	on	
<ul> <li>42 Deck overlay(asphalt w waterproofing)</li> <li>41 Deck overlay(asphaltic concrete)</li> </ul>		22 Structure steel repair		
50 Deck patching(asphalt)		121 Tunnel liner installation		
49 Deck patching(concrete) 48 Expansion joint repair/replacement			编编的是一种目的,并且在一种目的的是一种目的是 Comments which	<b>科学校的学校的学校的</b>
6 Graffiti removal 14 Heat Straightening-Under-Bridge Hit		5 Structure widening		
26 Overhead concrete spall removal		1 Structure(new) 2 Structure(replacement)		
15 Raising Bridge		3 Superstructure replacement		
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To Be Determined		12 Bridge Analysis 11 Bridge Inspection (Consultant)		
	the second s	45 Deck Skid Resistance Retrofit		
	<ul> <li>Reconstruction</li> <li>SD/FO cannot be 0 &amp; Suff Rating 50% or less</li> </ul>	Major Rehab (Use only for BMS     7 Movable Bridge (Fix Costs)		11/2A
Yes	- Rehabilitation	Unknown (Only w/BMS Conver	rsion) MAINTAIN Veet Cleary	xe (16.2
	SD/FO cannot be 0 & Suff Rating 80% or less - Deck Summary Rating of 4 or less	電動運輸Generol/GommentS系統的影響	和44年代的过去式和过去分词的资源。 第二章	的非可能的行政的行政
No				
	Gduminia	NO WORK - 1	Built 2015 - overhead bridge	
General Deck		In Brane Bridge. Work Estimate France		
Wearing Surface		80		
Not Applicable		H U		

LOR-90-10.76 6/16/22 8/24/20 PID: 107714 SEN: 4704924 Bridge No. LOR - 90 - 1785 R Date: 127-9240192-00490012-004914 iddhol(itQhol)(hailon A state in the state 61 Bridge railing upgrade/repair 87 Channel clean out 119 Approach (other) 81 Channel drift removal 102 Approach railing repair 101 Approach roadway profile correction 143 Culvert Extension/Non-Bridge 120 Culvert Invert repair 100 Approach slab replacement/repair 144 Culvert Repair/Non-Bridge 63 Bridge light Installation/repair 47 Deck and abutment seat cleaning 61 Bridge railing upgrade/repair 46 Deck cathodic protection installation 10. Concrete patching (non-deck) 40 Deck overlay(concrete) 139 Culvert (other) 43 Deck overlay(epoxy) 120 Culvert Invert repair 44 Deck overlay(other) 159 Culvert Other/Non-Bridge 50 Deck patching (asphalt) 20 Deck patching (asphalt) 49 Deck patching (concrete) 49 Deck patching (concrete) 51 Deck Sealing 59 Deck surface 28 Drainage system cleaned/repaired 62 Fence installation/repair 48 Expansion joint repair/replacement 80 Foundation stabilization 23 Fatigue retrofit 8 Movable bridge(repair) 20 Painting structural steel 20 - Painting structural steel 24 Pin and Hanger retrofit 85 Pler replacement/repair 103 Pressure relief joint installation 84 Pile encasement Raising-Bridge 103 Pressure relief joint installation 83 Scour prevention and correction Raising Bridge 60 Sidewalk repair/replacement 60 Sidewalk repair/replacement 82 Slope repair & protection installation 82 - Slope repair & protection 52 Spall Removal 22 Structure steel repair 21 Spot-painting structural steel 99 · Substructure (other) 88 Substructure Sealing 39 Superstructure (other) deline of the second Commans. Mojorist Hejalliation 29 Backwall'replacement/repair 122 Culvert Linear Repair 25 Bearing reset/replaced 141 Culvert Replace/Non-Bridge 27 Bridge diapering installation 4 Deck replacement 9 Collision damage 20 Painting structural steel 10 Concrete patching(non-deck) 89 Semi-Integral Abutment Conversion 42 Deck overlay(asphalt w waterproofing) 13 Structure Removal 41 Deck overlay(asphaltic concrete) 22 Structure steel repair 50 (Deck patching(asphalt) 121 Tunnel liner installation 49 Deck patching(concrete) 48 Expansion joint repair/replacement Were construction 6 Graffiti removal 142 Culvert New/Non-Bridge 14 Heat Straightening-Under-Bridge Hit 5 Structure widening 26 Overhead concrete spall removal 1 Structure(new) 15 Raising Bridge 2 Structure(replacement) 3 Superstructure replacement Comments No Work To Be Determined 12 Bridge Analysis 11 Bridge Inspection (Consultant) العالمان المنابية المالية المالية 45 Deck Skid Resistance Retrofit Reconstruction Major Rehab (Use only for BMS Conv) SD/FO cannot be 0 & Suff Rating 50% or less Movable Bridge (Fix Costs) Yes Rehabilitation Unknown (Only w/BMS Conversion) SD/FO cannot be 0 & Suff Rating 80% or less Deck Summary Rating of 4 or less Generol Gomments No - Being replaced under P3D 90942 (2022) No WORK . Curalenteritoritorial General Deck Brigelling Stimute and Statistics Wearing Surface \$0 Paint Not Applicable

20 LOR-90-10.76 6/16/22 PID: 107714 Bridge No. LOR-90-1785L SFN: 4704894 Date: C. Proganica Malakanana -Ministria Chine Billion 200 61 Bridge railing upgrade/repair 86 Abutment replacement/repair 87 Channel clean out 119 Approach (other) 81 Channel drift removal 143 Culvert Extension/Non-Bridge 102 Approach railing repair 101 Approach roadway profile correction 120 Culvert invert repair 100 Approach slab replacement/repair 144 Culvert Repair/Non-Bridge 63 Bridge light Installation/repair 47 Deck and abutment seat cleaning 61 Bridge railing upgrade/repair 46 Deck cathodic protection installation 10 Concrete patching (non-deck) 40 Deck overlay(concrete) 139 - Culvert (other) 43 Deck overlay(epoxy) 120 Culvert invert repair 44 Deck overlay(other) 159 Culvert Other/Non-Bridge 50 Deck patching (asphalt) 20 Deck patching (asphalt) 49 Deck patching (concrete) 49 Deck patching (concrete) 51 Deck Sealing 59 Deck surface 28 Drainage system cleaned/repaired 62 Fence installation/repair 48 Expansion Joint repair/replacement 80<sup>-</sup> Foundation stabilization 23 Fatigue retrofit 8 Movable bridge(repair) 20 Painting structural steel 20 - Painting structural steel 24 Pin and Hanger retrofit 85 Pier replacement/repair 103 Pressure relief joint Installation 84 Pile encasement **RaisIng-Bridge** 103 Pressure relief joint installation 83 Scour prevention and correction Raising Bridge 60 Sidewalk repair/replacement 60 Sidewalk repair/replacement 82 Slope repair & protection installation 82 Slope repair & protection 52 Spall Removal 22 Structure steel repair 21 Spot-painting structural steel 99 Substructure (other) 88 Substructure Sealing 39 Superstructure (other) Standy - walling - menters Summens Mujorin Highlington and a second s 29 Backwall replacement/repair 122 Culvert Linear Repair 25 Bearing reset/replaced 141 Culvert Replace/Non-Bridge 27 Bridge diapering installation 4 Deck replacement 9 Collision damage 20 Painting structural steel 10 Concrete patching(non-deck) 89 Semi-Integral Abutment Conversion 42 Deck overlay(asphalt w waterproofing) 13 Structure Removal 41 Deck overlay (asphaltic concrete) 22 Structure steel repair 50 Deck patching(asphalt) 121 Tunnel liner installation 49 Deck patching(concrete) 48 Expansion joint repair/replacement illau (dirau) din 6 Graffiti removal 142 Culvert New/Non-Bridge 14 Heat Straightening-Under-Bridge Hit 5 Structure widening 26 Overhead concrete spall removal 1 Structure(new) 15 Raising Bridge 2 Structure(replacement) 3 Superstructure replacement Could super-No Work Misc Bridge Costs and State and State and State and State and State Comments of State and State and State and S To Be Determined 12 Bridge Analysis 11 Bridge Inspection (Consultant) EllPhile for the state of s 45 Deck Skid Resistance Retrofit - Reconstruction Major Rehab (Use only for BMS Conv) SD/FO cannot be 0 & Suff Rating 50% or less Movable Bridge (Fix Costs) Yes Rehabilitation Unknown (Only w/BMS Conversion) SD/FO cannot be 0 & Suff Rating 80% or less Deck Summary Rating of 4 or less Gauge Comments No Being Replaced under PED 9 0942 (2 No WORK Current inter her bereiter Columnation General Deck Wearing Surface \$0 Paint Not Applicable

2 over Klandtin DEV 7/11/22 LOR-90-10,76 Bridge No. LOR - 90 - 1815 Date: 8124140 PID: 107714 SEN: 4704967 Dis-V-mer-willing-mente-utilitieti k<u>Cincipilitionio</u>li 61 Bridge railing upgrade/repair ...86 Abutment replacement/repair 87 Channel clean out 11G Approach (other) 81 Channel drift removal 102 Approach railing repair 101 Approach roadway profile correction 143 Culvert Extension/Non-Bridge 120 Culvert invert repair 100 Approach slab replacement/repair 144 Culvert Repair/Non-Bridge 63 Bridge light installation/repair 47 Deck and abutment seat cleaning 61 Bridge railing upgrade/repair 46 Deck cathodic protection installation Concrete Invert 10 Concrete patching (non-deck) 40 Deck overlay(concrete) 139 - Culvert (other) 12×230' long 2 (apply Conc. full paving ~ Hup wall) 230'×\$ 600/A = \$138,000 USE\$140,000 (INC. 12± disprese VSE\$140,000 (INC. 12± disprese Repair Fup Rt. Hers wall Deterioration \$ 43 Deck overlay(epoxy) 120 Culvert Invert repair 44 Deck overlay(other) 159 Culvert Other/Non-Bridge 50 Deck patching (asphalt) 20. Deck patching (asphalt) 49 Deck patching (concrete) 49 Deck patching (concrete) 51 Deck Sealing 59 Deck surface 28 Drainage system cleaned/repaired 62 Fence installation/repair 48 Expansion joint repair/replacement 80' Foundation stabilization 23 |Fatigue retrofit 8 Movable bridge(repair) 20 Painting structural steel 20 Painting structural steel 24 Pin and Hanger retrofit 85 Pier replacement/repair 103 Pressure relief joint installation 84 Pile encasement Raising-Bridge 103 Pressure relief joint installation 83 Scour prevention and correction Raising Bridge 60 Sidewalk repair/replacement 60 Sidewalk repair/replacement 82 Slope repair & protection installation Opipe 82 Slope repair & protection 52 Spall Removal 22 Structure steel repair 21 Spot-painting structural steel 99 Substructure (other) (Ref. cost used for LOR-90-1658) 88 Substructure Sealing 39 Superstructure (other) Relative welling menters Somments ... Adoptini indomini participation and a second s 29 Backwall replacement/repair 122 Culvert Linear Repair 25 Bearing reset/replaced 141 Culvert Replace/Non-Bridge 27 Bridge diapering Installation 4 Deck replacement 9 Collision damage 20 Painting structural steel 10 Concrete patching(non-deck) 89 Semi-Integral Abutment Conversion 42 Deck overlay(asphalt w waterproofing) 13 Structure Removal 41 Deck overlay(asphaltic concrete) 22 Structure steel repair 50 Deck patching(asphalt) 121 Tunnel liner installation 49 Deck patching(concrete) 48 Expansion joint repair/replacement Neto constitución 6 Graffiti removal 142 Culvert New/Non-Bridge 14 Heat Straightening-Under-Bridge Hit 5 Structure widening 26 Overhead concrete spall removal 1 Structure(new) 15 Raising Bridge 2 Structure(replacement) 3 Superstructure replacement Comments No Work 12 |Bridge Analysis To Be Determined 11 Bridge Inspection (Consultant) Ellille für Billeliefs 45 Deck Skid Resistance Retrofit - Reconstruction Major Rehab (Use only for BMS Conv) SD/FO cannot be 0 & Suff Rating 50% or less Movable Bridge (Fix Costs) Address Roadwood Abare per Paris, Plan Yes Rehabilitation Unknown (Only w/BMS Conversion) SD/FO cannot be 0 & Suff Rating 80% or less Deck Summary Rating of 4 or less (Generol/Gomment) No I field revereved this is 2020 (?) But have NO Notes culvet -rated "6" Certerleint-strippinesterl Golmmenter General Deck Lange-Marshall and the second Wearing Surface \$ 140,000 Paint Not Applicable

1\_OR-90-10,76 Bridge No. LOR - 90 - 1861 L PID: 107714 SEN: 4704959 Date: Preventivenvielmentme Million Rendering to the second se 61 Bridge railing upgrade/repair 86 Abutment replacement/repair 87 Channel clean out 119 Approach (other) 81 Channel drift removal 102 Approach railing repair 143 Culvert Extension/Non-Bridge 101. Approach roadway profile correction 120 Culvert invert repair 100 Approach slab replacement/repair 144 Culvert Repair/Non-Bridge 63 Bridge light installation/repair 47 Deck and abutment seat cleaning 61 Bridge railing upgrade/repair 46 Deck cathodic protection installation 10 Concrete patching (non-deck) 40 Deck overlay(concrete) 139 Culvert (other) 43 Deck overlay(epoxy) 120 Culvert invert repair 44 Deck overlay(other) 159 Culvert Other/Non-Bridge 50 Deck patching (asphalt) 517 - Seal Deck Shop Slops W/ SRS 20. Deck patching (asphalt) 49 Deck patching (concrete) 49 Deck patching (concrete) 51 Deck Sealing 59 Deck-surface \$8.75/SY X [95039 +25 (87 +90)] :9 28 Drainage system cleaned/repaired 62 Fence installation/repair 48 Expansion joint repair/replacement 80 Foundation stabilization 23 Fatigue retrofit 8 Movable bridge(repair) 20 Painting structural steel 24 Pin and Hanger retrofit 154854×8.75/57 = \$14,000 20 Painting structural steel 85 Pler replacement/repair 103 Pressure relief joint installation 84 Pile encasement Raising-Bridge 103 Pressure relief joint installation 83 Scour prevention and correction Raising Bridge 60 Sidewalk repair/replacement 60 Sidewalk repair/replacement 82 Slope repair & protection installation 82 Slope repair & protection 52 Spall Removal 22 Structure steel repair 21 Spot-painting structural steel 99 · Substructure (other) 88 Substructure Sealing 39 Superstructure (other i leinte - vieiline neutecontrol and the second se dugu nangallaniga 29 Backwall replacement/repair 122 Culvert Linear Repair 25 |Bearing reset/replaced 141 Culvert Replace/Non-Bridge 27 Bridge diapering installation 4 Deck replacement 9 Collision damage 20 Painting structural steel 10 |Concrete patching(non-deck) 89 Semi-Integral Abutment Conversion 42 Deck overlay(asphalt w waterproofing) 13 Structure Removal 41 Deck overlay (asphaltic concrete) 22 Structure steel repair 50 Deck patching(asphalt) 121 Tunnel liner installation 49 Deck patching(concrete) 48 Expansion joint repair/replacement Wellston and the second second and the second 6 Graffiti removal 142 Culvert New/Non-Bridge BTAS- LEADING EUDS - Type ! 14 Heat Straightening-Under-Bridge Hit 5 Structure widening 26 Overhead concrete spall removal 1 Trailing Evo - The Outside - Type Z Structure(new) 15 Raising Bridge 2 Structure(replacement) INSIDE - NONE Superstructure replacement Comfinants No Work MISSB/00-1001 To Be Determined 12 Bridge Analysis 11 Bridge Inspection (Consultant) Ellipple for elsureness 45 Deck Skid Resistance Retrofit (Fow Minior parapet issues per 2021 report-fix) Reconstruction Major Rehab (Use only for BMS Conv) SD/FO cannot be 0 & Suff Rating 50% or less Movable Bridge (Fix Costs) site visited but thre No Notes Yes Rehabilitation Unknown (Only w/BMS Conversion SD/FO cannot be 0 & Suff Rating 80% or less Deck Summary Rating of 4 or less Central Comments No Sealed in 2018 under PED 79762 7-0000 Certailent + 101 - 10 - 10 Seluments ..... Market Statutes Fother rehab work - Reseal w/ General Deck BINDOLA VEINASSIMEREN ANA **和影響的時間,這些時間的影響的影響。** 1991年1月1日,1991年1月1日,1991年1月1日,1991年1月1日,1991年1月1日,1991年1月1日,1991年1月1日,1991年1月1日,1991年1月1日,1991年1月1日,1991年1月1日,1 Wearing Surface SRS Considering Somewhat recent sore Paint \$ 14.000 Not Applicable - does have copies

LOR-90-10.76 Date: 8/16 Bridge No. LOR - 90-1861 R SEN: 4704983 107714 PID: MinorRehabilitation 12 Prevento automanina -Combicines 61 Bridge railing upgrade/repair 119 Approach (other) 87 Channel clean out 102 Approach railing repair 81 Channel drift removal 101 Approach roadway profile correction 143 Culvert Extension/Non-Bridge 100 Approach slab replacement/repair 120 Culvert invert repair 63 Bridge light installation/repair 144 Culvert Repair/Non-Bridge 61 Bridge railing upgrade/repair 47 Deck and abutment seat cleaning 10 Concrete patching (non-deck) 46 Deck cathodic protection installation 139 Culvert (other) 40 Deck overlay(concrete) 120 Culvert invert repair 43 Deck overlay(epoxy) 159 Culvert Other/Non-Bridge 44 Deck overlay(other) 512-Seal Deck GAPPSlabs W/SRS 20 Deck patching (asphalt) 50 Deck patching (asphalt) 49 Deck patching (concrete) 49 Deck patching (concrete) \$8,75/sy x [79285F +25'(72'+75');9 59 Deck surface 51 Deck Sealing 62 Fence installation/repair 28 Drainage system cleaned/repaired 80 Foundation stabilization 48 Expansion joint repair/replacement = \$11,000 8 Movable bridge(repair) 23 Fatigue retrofit 20 Painting structural steel 20 Painting structural steel 85 Pier replacement/repair 24 Pin and Hanger retrofit 84 Pile encasement 103 Pressure relief joint installation 103 Pressure relief joint installation Raising Bridge Raising Bridge 83 Scour prevention and correction 60 Sidewalk repair/replacement 60 Sidewalk repair/replacement 82 Slope repair & protection 82 Slope repair & protection installation 22 Structure steel repair 52 Spall Removal 99 Substructure (other) 21 Spot painting structural steel 39 Superstructure (other) 88 Substructure Sealing Mojorsi Hopmano Repaired with energy Comments, its -122 Culvert Linear Repair 29 Backwall replacement/repair 141 Culvert Replace/Non-Bridge 25 Bearing reset/replaced 4 Deck replacement 27 Bridge diapering installation 20 Painting structural steel 9 Collision damage 89 Semi-Integral Abutment Conversion 10 Concrete patching(non-deck) 13 Structure Removal 42 Deck overlay(asphalt w waterproofing) 22 Structure steel repair 41 Deck overlay(asphaltic concrete) 121 Tunnel liner installation 50 Deck patching(asphalt) 49 Deck patching(concrete) Nev Construction 48 Expansion joint repair/replacement 142 Culvert New/Non-Bridge 6 Graffiti removal BTAS - LEADING ENDS - Type ! 5 Structure widening 14 Heat Straightening-Under-Bridge Hit Trailin, Eus-Oukide-TypeZ Inside - Nove 1 Structure(new) 26 Overhead concrete spall removal 2 Structure(replacement) 15 Raising Bridge 3 Superstructure replacement and the second secon No Work 12 Bridge Analysis To Be Determined 11 Bridge Inspection (Consultant) 45 Deck Skid Resistance Retrofit دغورية التراجين والواليانية Few minor parapet issues per 2021/2007 - Notik) Major Rehab (Use only for BMS Conv) - Reconstruction SD/FO cannot be 0 & Suff Rating 50% or less Movable Bridge (Fix Costs) site vistor, but have NO NOTES (2020 ± Unknown (Only w/BMS Conversion) Rehabilitation Yes SD/FO cannot be 0 & Suff Rating 80% or less 影響和於General/Gomments主要的影响和影響的影響的影響的影響。這些影響的影響的影響的影響的影響的影響的影響的影響的影響 Deck Summary Rating of 4 or less Worz - rated "7"-good Condition - Sealed in 2018 under PED No 79762 (other reliab wale to Certer College Genments General Bridge Work Stimate Market Street States and Deck Reseal WISRS Considering Wearing Surface \$ 11.000 recent sealing, deck cracks & Show Paint Not Applicable Wate.

		/	rer IR 90)	24
Date: 6/16/22	LOR-90-10,76 PID: 107714 Br			SFN: 4706277
Province with the second secon	<u>styminaus</u>		Million Rendelinguide 86 Abutment replacement/repair	comments strategy and strateg
0.4.1. bridge raining upgrade/repair         87         143         Culvert Extension/Non-Bridge         120         121         Culvert invert repair         144         Culvert Repair/Non-Bridge         147         Deck and abutment seat cleaning         46         Deck cathodic protection installation         40         Deck overlay(concrete)         43         Deck overlay(epoxy)         44         Deck patching (asphalt)         49         Deck patching (concrete)         51       Deck patching (concrete)         51       Deck patching (concrete)         51       Deck patching (concrete)         51       Deck sealing         28       Drainage system cleaned/repaired         48       Expansion joint repair/replacement         23       Fatigue retrofit         20       Painting structural steel         24       Pin and Hanger retrofit         103       Pressure relief joint installation         Raising-Bridge       83         83       Scour prevention and correction         60       Sidewalk repair/replacement </td <td></td> <td></td> <td>119       Approach (other)         102       Approach railing repair         101       Approach railing repair         101       Approach siab replacement/repair         103       Bridge light installation/repair         104       Bridge railing upgrade/repair         105       Concrete patching (non-deck)         139       Culvert (other)         120       Culvert Other/Non-Bridge         20       Deck patching (asphalt)         49       Deck patching (concrete)         59       Deck surface         62       Fence installation/repair         80       Foundation stabilization         8       Movable bridge(repair)         20       Painting structural steel         85       Piler replacement/repair         80       Poundation stabilization         81       Movable bridge(repair)         20       Painting structural steel         85       Piler replacement/repair         84       Pile encasement         103       Pressure relief joint installation         Raising Bridge       Silope repair &amp; protection         22       Structure steel repair         95       Substructure (other)         39&lt;</td> <td>Add 6 VPF retrofit to existing 36" BR-1 Parapet (pull SCD BR-1 (01-06-99)) \$ 135/A × 2 × 300' = \$81,000</td>			119       Approach (other)         102       Approach railing repair         101       Approach railing repair         101       Approach siab replacement/repair         103       Bridge light installation/repair         104       Bridge railing upgrade/repair         105       Concrete patching (non-deck)         139       Culvert (other)         120       Culvert Other/Non-Bridge         20       Deck patching (asphalt)         49       Deck patching (concrete)         59       Deck surface         62       Fence installation/repair         80       Foundation stabilization         8       Movable bridge(repair)         20       Painting structural steel         85       Piler replacement/repair         80       Poundation stabilization         81       Movable bridge(repair)         20       Painting structural steel         85       Piler replacement/repair         84       Pile encasement         103       Pressure relief joint installation         Raising Bridge       Silope repair & protection         22       Structure steel repair         95       Substructure (other)         39<	Add 6 VPF retrofit to existing 36" BR-1 Parapet (pull SCD BR-1 (01-06-99)) \$ 135/A × 2 × 300' = \$81,000
29     Backwall'replacement/repair       25     Bearing reset/replaced       27     Bridge diapering installation       9     Collision damage       10     Concrete patching(non-deck)       42     Deck overlay(asphalt w waterproofing)	sommenes		122 - Culvert Linear Repair         141 - Culvert Replace/Non-Bridge         4 - Deck replacement         20 - Painting structural steel         89 - Semi-Integral Abutment Conversion	
41 Deck overlay(asphaltic concrete)			13 Structure Removal     22 Structure steel repair     121 Turned liner Installation	
50       Deck patching(asphalt)         49       Deck patching(concrete)         48       Expansion joint repair/replacement         6       Graffiti removal         14       Heat Straightening-Under-Bridge Hit         26       Overhead concrete spali removal         15       Raising Bridge			22         Structure steel repair           121         Tunnel liner Installation	Comments
50       Deck patching(asphalt)         49       Deck patching(concrete)         48       Expansion joint repair/replacement         6       Graffiti removal         14       Heat Straightening-Under-Bridge Hit         26       Overhead concrete spall removal			22       Structure steel repair         121       Tunnel liner Installation         AVE/UCION: How Pride         142       Culvert New/Non-Bridge         5       Structure widening         1       Structure(new)         2       Structure(replacement)         3       Superstructure replacement	Maintain (or improve) Verhical Starance
50       Deck patching(asphalt)         49       Deck patching(concrete)         48       Expansion joint repair/replacement         6       Graffiti removal         14       Heat Straightening-Under-Bridge Hit         26       Overhead concrete spall removal         15       Raising Bridge         No Work       To Be Determined         - Re         Yes       - Re	construction SD/FO cannot be 0 & Suff Rating 50% or less chabilitation		22       Structure steel repair         121       Tunnel liner Installation         142       Culvert New/Non-Bridge         5       Structure widening         1       Structure(replacement)         3       Superstructure replacement         142       Bridge Analysis         11       Bridge Inspection (Consultant)         45       Deck Skid Resistance Retrofit         Major Rehab (Use only for BMS Convy)       Movable Bridge (Fix Costs)         Unknown (Only w/BMS Conversion)       Unknown (Only w/BMS Conversion)	Maintain (Orimprove) Vertical dearance when budge (14,921)
50       Deck patching(asphalt)         49       Deck patching(concrete)         48       Expansion joint repair/replacement         6       Graffiti removal         14       Heat Straightening-Under-Bridge Hit         26       Overhead concrete spall removal         15       Raising Bridge         No Work       To Be Determined         FRE         Yes       - Re         No       No	construction SD/FO cannot be 0 & Suff Rating 50% or less chabilitation SD/FO cannot be 0 & Suff Rating 80% or less eck Summary Rating of 4 or less		22       Structure steel repair         121       Tunnel liner Installation         142       Culvert New/Non-Bridge         5       Structure widening         1       Structure (new)         2       Structure(new)         3       Superstructure replacement)         3       Superstructure replacement         42       Bridge Analysis         11       Bridge Inspection (Consultant)         45       Deck Skid Resistance Retrofit         Major Rehab (Use only for BMS Conv)       7         Movable Bridge (Fix Costs)       Unknown (Only w/BMS Conversion)	Maintain (or improve) Vectrical Clearance who buildge (14,92')
50       Deck patching(asphalt)         49       Deck patching(concrete)         48       Expansion joint repair/replacement         6       Graffiti removal         14       Heat Straightening-Under-Bridge Hit         26       Overhead concrete spall removal         15       Raising Bridge         No Work	construction SD/FO cannot be 0 & Suff Rating 50% or less chabilitation SD/FO cannot be 0 & Suff Rating 80% or less eck Summary Rating of 4 or less		22       Structure steel repair         121       Tunnel liner Installation         142       Culvert New/Non-Bridge         5       Structure widening         1       Structure (replacement)         3       Superstructure replacement         142       Bridge Analysis         11       Bridge Inspection (Consultant)         45       Deck Skid Resistance Retrofit         Major Rehab (Use only for BMS Conv)         7       Movable Bridge (Fix Costs)         Unknown (Only w/BMS Conversion)         Content Bridge Tradement	Maintain (or improve) Verbial Claronce who budge (14,92')

	LOR-90-10,76	our 5290
Date: 6/16/24	PID: 107714 Bridge No.	LOR-301-2349 SFN: 4706730
127-123110-34MADD13-14AD17-	sterinin Alis	s Million (Chapter and the second se
61. Bridge railing upgrade/repair	an a	86. Abutment replacement/repair
87  Channel clean out 81  Channel drift removal	, , , , , , , , , , , , , , , , , , ,	119 Approach (other) 102 · Approach railing repair
143 Culvert Extension/Non-Bridge		101. Approach roadway profile correction
120 Culvert invert repair		100 Approach slab replacement/repair
144 Culvert Repair/Non-Bridge		63 Bridge light installation/repair
47 Deck and abutment seat cleaning 46 Deck cathodic protection installation		61 Bridge railing upgrade/repair 10 Concrete patching (non-deck)
40 Deck catholic protection installation		139 Culvert (other)
43 · Deck overlay(epoxy)		120 Culvert Invert repair
44 Deck overlay(other)		159 Culvert Other/Non-Bridge
50 Deck patching (asphalt)		20. Deck patching (asphalt) 49 Deck patching (concrete)
49 Deck patching (concrete) 51 Deck Sealing		59' Deck surface
28 Drainage system cleaned/repaired		
48 Expansion joint repair/replacement	•	80 Foundation stabilization 8 Movable bridge(repair)
23 Fatigue retrofit 20 Painting structural steel		20 Painting structural steel
24 Pin and Hanger retrofit		85 Pier replacement/repair
103 Pressure relief joint installation		84 Pile encasement 103 Pressure relief joint installation
Raising Bridge 83 Scour prevention and correction		Raising Bridge
60 Sidewalk repair/replacement		60 Sidewalk repair/replacement
82 Slope repair & protection Installation		82 Slope repair & protection
52 Spall Removal		22 Structure steel repair 99 Substructure (other)
21 Spot painting structural steel 88 Substructure Sealing		39 Superstructure (other)
	1111111 - 1121111 - 112	Alogonic inclusion
29 Backwallreplacement/repair	contraction in the second s	122 Culvert Linear Repair
25 Bearing reset/replaced		141 Culvert Replace/Non-Bridge
27 Bridge diapering Installation		4 Deck replacement
9 Collision damage		20 Painting structural steel
10  Concrete patching(non-deck)     42  Deck overlay(asphalt w waterproofing)		89 Semi-Integral Abutment Conversion 13- Structure Removal
41 Deck overlay(asphalt w water probling)		22 Structure steel repair
50 · Deck patching(asphalt)		121 Tunnel liner installation
49 Deck patching(concrete)		
48 Expansion joint repair/replacement     6 Graffiti removal		Alexandread Comments     C
14 Heat Straightening-Under-Bridge Hit		5 Structure widening
26 Overhead concrete spall removal		1 Structure(new)
15 Raising Bridge		2 Structure(replacement) 3 Superstructure replacement
1999年1999年1999年1999年1999年1999年1999年199	Counters	
No Work		「「「」」「「」」「」」「」」「」」「」」「」」「」」「」」「」」「」」「」」
To Be Determined	j	11 Bridge Inspection (Consultant) Minimum Chenesua below budge = 17.35'
1410101250053334340005	and the second	11 Bridge Analysis 13 Bridge Inspection (Consultant) 45 Deck Skid Resistance Retrofit Major Rehab (Use only for BMS Conv) 7 Mausha Bridge (Use only for BMS Conv) 7 Mausha Bridge (Use only for BMS Conv) 7 Mausha Bridge (Use only for BMS Conv)
	- Reconstruction	Major Rehab (Use only for BMS Conv) Prefu to maintain, but don't law to.
	SD/FO cannot be 0 & Suff Rating 50% or less	· [Movable-bildge (Fix coad)
Ves Yes	- Rehabilitation SD/FO cannot be 0 & Suff Rating 80% or less	Unknown (Only w/BMS Conversion)
	- Deck Summary Rating of 4 or less	www.wgGEnet的//GommentSawawanaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa
No		NoWork - Overhers bridge built 2013, rated "9". No Noticeble deficiencies
Towners we can be provided by the part of the provided by the provided by the part of the part	Communities	Mallock -
12 Martin GLEUGHES/INTIMOVER MARTINE		NO WORK
General		
General Deck		
General     Deck     Wearing Surface		
General Deck		

This rep	nduit Sun	uits and their latest in	spection																				
Report	memorale di 2022 06 20 02	247/06 170000	STL Begin	oken Conduit SI	hape Conduit Material	Span Rise	Length Inlet	End Outlet End	Max Height	of Inventory Comments	Conduit Material	Conduit Conduit Shape Alignmen Rating	Seam or Slab	Abutmen Headwal	II End C	nannel Ch:	nnel Co	nduit Scou	r Pavement	Guardrail	Embankme G	eneral Inspection Comments	Inspection Date Created User (Inspectio
Numt	er (CFN)	Number	Number	lack		(Inches) (Inches)	(Feet) Treat	ment Treatment	Cover (Feet	Catch basin needs rebuilt, side wall crumbling and frame and grate are both rusted our and broke from mover. Outsite is under water bui looking fromy pipe from basin to		Alignmen Bating	Joints	<u>15</u> s	Structure Ali	gnment Prot	ection Wat	le rw a y			nt Ap	The grates on the inter catch basin is rusting and localing material. 2 grates needs replaced. Catch basin has efforscence deteriorating motor and the advall is buried and was unable to get a visual so the rating for the basichall is from the 2021 inspection. Outlet channel needs signed out to allow water (how. Catch	
	1873034 LOR-90-10.873	10.873	143.393 No	Circular	Plain or Reinforced Co	15	123 Catch B	asin Half Height Cor	ncr 1	10 appears to be in really good shape. Very clean, no blockage that i can see. The size of pipe was		7 7	7		6 4	7	8	4	7 7		8	7 basin needs repaired not replace	2021-08-31 odotonline\dmorlock1
	1873035 LOR-90-11.105	11.105	143.625 No	Elliptical - Ho	orizont: Plain or Reinforced Cr	54 36	232 Half He	ght Con Half Height Cor	ncr	5 wrong so i changed it Been jetting and cutting through this conduit for a couple		8 8	8		8	8	7	7	7 7		8	8 Very clean, very good shape.	2021-08-31 odotonline\dmorlock1
										years. Finally drains and can see through to the other side. Basin is good, pipe is good, outlets well above bottom of													
	1873036 LOR-90-11.359	11.359	143.878 No	Circular	Plain or Reinforced Co	24	107 Catch B	asin Unknown		5 ditch so no blockage.		7 7	7		8	6	7	7	7 7		7	7 Ditches in median are rutted from mowers. Comment added on 7/13/22 by CP. Conduit has 2 foot of sediment throughout. Spalling	2021-09-01 odotonline\dmorlock1
	1873039 LOR-90-11.434	11.434	143.954 No	Circular	Plain or Reinforced Co	96	260 Half He	ght Con Half Height Cor	ncr	7 Bad pics but everything looks good in person.		7 8	7		8	7	7	7	8 7		7	is occurring on west side of conduit exposing some of the reinforced mesh. 7 See photos in the inventory.	2021-09-01 odotonline\dmorlock1
										Cattails at inlet, absolute jungle at outlet but can see daylight through pipe. Not climbing down jungle embankment for picture. Pipe holds minimal water. Very													
	1873038 LOR-90-11.596	11.596	144.116 No	Circular	Plain or Reinforced Co	42	337 Half He	ght Con Half Height Cor	ncr 2	20 clean inside and in good shape.		8 8	8		8	7	7	6	8 7	7		8	2021-09-01 odotonline\dmorlock1
	1987498 LOR-90-11.714		144.234 No		Plain or Reinforced Co		430 Half Hei	ght Con Half Height Cor	ncr 1	Found this looking for another so added it to inventory. Not 15 going to get outlet pictures till another date.		8 8	7		8	7	6	7		7		Changed material from 8 to a 7 due to 7 spalls located on 7/13/22 by CP.	2021-09-01 odotonline\dmorlock1
	1872958 LOR-90-11.962				Plain or Reinforced Co		80 Half Hei	ght Con Half Height Cor	ncr 1	10 Dots were in wrong locations. Found it finally. Looks good, looks good. Very clean. Slight buildup of silt at		8 7	8		8	7	7		7 7		8	7	2021-09-01 odotonline\dmorlock1
	1872957 LOR-90-11.965 1864077 LOR-90-12.160		144.485 No No	Circular Circular	Plain or Reinforced Co Plain or Reinforced Co		88 Half Hei 126 Catch B	ght Con Half Height Con asin Unknown	ncr	8 outlet. No worries yet. 8		8 8 7 7	8		8 6	7	7	6 7	7 7		8	8	2021-09-01 odotonline\dmorlock1 2019-06-24 gbonafie
	1873004 LOR-90-12.323	12.323	Yes	Circular	Plain or Reinforced Co	15	118 Catch B	asin Unknown		Basin in median in good shape. Something in bottom of pipe about 32-40 feet in that might be calcium buildup. Appears to have broken back but im not falling down a hill 8 full of poison ivy today.		6 7	7		8	8	8	5	7 7	7	7	Something is in bottom 1/4 of pipe about 35 feet in. Looks like possibly a calcuim buildup. If jetting can remove it can get a 6 higher G/A.	2021-09-03 odotonline\dmorlock1
																						Erosion caused by drainage with bare soil and grinding's along the embankment but the embankment is holding its shape. Small separation of inch or less at joints with no sign of infiltration. Outlet dhamed is still build up and redirects towards the building bits at 30 eer of onlicit. Water flow is good and culvert appears to be 7 functioning a design.	
	1864078 LOR-90-12.370 1987649 LOR-90-12.380		No 144.91 No		Plain or Reinforced Ci			ght Com Full Height Cor		5		a a 8 9 (	6 8		8	9	9	8	9 8	7	8	Thirtshifting a design. There is some sediment build up that is restricting the push camere to go past 30 fest from the outlet to the inlet cath bain. Running the camera in from the inlet is not a option due to a lane closure will be needed <i>Try does</i> look go dow with minor running the rower all the way through to inlet when it is up and running. Remote inspection in the O dirve. Several 6 sections of the HPPE are defected.	2022-05-05 spenix1 2021-10-06 spenix1 & CAL
	1987650 LOR-90-12.398	12.398	Yes	Circular	Corrugated Plastic - Si	15	60 Catch B	asin Catch Basin		4 New from bridge replacement		7 7 :	7 7		8	8	8	7	8 7	7	7	7 Was jetted, looks good.	2021-10-20 dmorlock1
	1987683 LOR-90-12.459	12.459	Yes	Circular	Corrugated Plastic - Si	15	60 Catch B	asin Catch Basin		4 Conduit new from bridge replacement		8 7 :	7 7		8	8	8	8	8 7	7	7	7 Was jetted for better cameraview.	2021-10-20 dmorlock1
																						Deflection in the pipe on the inlet end. There is a crack in the smooth wall 32' in from the outlet with no backfill material	
	1873006 LOR-90-12.460	12.46	No	Circular	Corrugated Plastic - Si	15	60 Catch B	asin Catch Basin		3		7 8 0	6 7		8	9	9	9	9 8	7	8	6 coming through. 1st joint from the inlet has misalignment with no signs of infiltration. Sediment buildup in at inlet and outlet. Outlet sediment is restricting water to flow off the invert. Remote pole inspection was	2021-10-06 cpenix1
	1987696 LOR-90-12.518	12.518	145.037 No	Circular	Corrugated Plastic - Si	15	60 Catch B	asin Catch Basin		4 Conduid is from a bridge replacement		8 7 (	6 6		8	8	8	5	8 7	7	7	6 performed and Video is on O-Drive.	2021-10-15 dmorlock1
	1987684 LOR-90-12.524	12.524	Yes	Circular	Corrugated Plastic - Si	15	60 Catch B	asin Catch Basin		4 New from bridge replacement		7 7 :	7 7		8	8	8	7	8 7	7	7	Alignment towards outlet is misaligned (unsure if it's by design), Shape and joints look good. Smail amount of sediment build up at inlet and ponding at the outlet where the misalignment is. Remote pole inspection was performed 7 and placed on O-Drive.	2021-10-15 dmorlock1
	1987685 LOR-90-12.568	13 525	145.087 No	Circular	Corrugated Plastic - Si	15	60 Cotch R	asin Catch Basin		4 New inventory from a bridge replacement in 2011		8 7 1	6 6			8			8 7	-		Sediment buildup throughout. Deeper at Inlet (more than 75%) and close to 50% through most of conduit. No signs of of water overtopping the roadway. Unable to get a visual on bottom haif and inspection was performed on what could be seen. V- Jet need to be performed. Remote pole inspection was performed and is located 7 on the O-Drive	2021-10-15 dmorfodd.1
										9												Small amount of sediment buildup close to the inlet. Deflection of the pipe of about 12.5%. Alignment appears to be off towards the outlet. No signs of infiltration	
	1987697 LOR-90-12.575	12.575	Yes	Circular	Corrugated Plastic - Si	15	60 Catch B	asin Catch Basin		4 New from bridge replacement		7 7 0	6 6		8	8	8	4	8 7	7	7	on video. Remote Pole inspection was 5 performed and is located on the O-Drive. Joints appear to be tight with possible tufa forming on them. Water is being held in cath basin along the invert in a stafacase partern due to bailoup at joints. This is probably tab duc can ong te a dear view from inite because of the water laving on the pipe for the outlet on the exact laving and the pipe for the outlet on the cause of it being broken back. Water at outlet is just a trickle. Need to V-iet or come up with plan to break up buildup at joints.	2021-10-15 dmorfock1
	1864079 LOR-90-12.753			Circular	Plain or Reinforced Ci Plain or Reinforced Ci			ssin Half Height Cor		6 6 Runs on a slight ne skew.		8 7	7		7 7	8	7	5	7 8	8	7	7 Video is on Q-Drive. Remote inspection was performed with the poid camera due to outlet being buried. Inspector walked the river where outlet should be with no luck finding it. Small amount of sediment 5 foot from inet. Large rock towards the outlet end close to where it changes to galvanized conduit. Ware is in catch basin and throughout conduit. It appears that there is 1000 blockage at outlet with the signs of water overtopping the readway. 7 Video is on the Q-Drive.	2022-05-09 openix1 2021-09-21 odotoniine\dmorlock1

Inspection Action Item	Recommendation for Project	Work for Lorain County	Cost E	dimate
inspection Action tiem	Recommendation for Project	work for Lorain County	Cost E	amate
	Median inlet CB needs repaired due to			
	missing bricks and mortar. Replace the		s	5,000.00
	existing grates. HydraTite Seal on the first joint from the			5,000.00
	outlet end.		\$	5,000.00
	No work		\$	
	Repair a 3'x2' spalled RCP which has ocurred			
	7' from the inlet end.		\$	10,000.00
	No work Repair spalled sections; Section 5 from the		\$	
	inlet end measuring 3'x3', Section 13 on the			
	crown 6'x2', Section 15 measuring 2'x2', Section 18 measuring 2'x2'. No work		\$ \$	25,000.00
	No work No work		\$ \$	-
	Replace only the corrected CARD busines in			
	Replace only the corroded CMP broken back portion.	Lorain County to V-jet the Tufa	\$	75,000.00
	No work		\$	
	Replace conduit due to deflection in the HDPE pipe.		\$	150,000.00
	Replace the CMP broken back portion only.		\$	75,000.00
	Replace the CMP broken back portion only.			
			\$	75,000.00
	Replace the conduit due to deflection in the HDPE and crack in the pipe. Over 40' of		s	
	deflection is visible.		\$	150,000.00
	No work		\$	
			2	
	At outlet and (or the state)			
	At outlet end (north side), replace approx. 10' of misaligned pipe. Replace CMP Broken back			
	portion.		\$	80,000.00
		Lorain County to V-jet then remote		
	?	inspection can be performed.	\$	
	Replace conduit due to deflection. Replace			
	CMP broken back.		\$	150,000.00
	Replace oulet corroded CMP broken back	Lorain County to v-jet the Tufa	\$	75,000.00
	No work		\$	

Com douit Sur		Stat	EOFOID																	
Conduit Sun	its and their latest insp	action																		
Report generated: 2022-06-30 0 Conduit File CRS Number (CFN)	3:47:26.172000 CTL Begin Number	TL Begin Broke Number Bac	en Conduit Sha k	pe Conduit Material	Span Rise (Inches) (Inches)	Length Inlet End (Feet) Treatment	Outlet End Max Height Treatment Cover (Fee	of Inventory Comments	Conduit Material Conduit Condition Alignmer	Conduit Shape Sean	n or Slab Al	outmen Headwall End	d Channel ure Alignment F	Channel Condui Protection Waterwa	l Scour	Pavement Gu	ardrail Embar ni	kme Genera Appraisa	I Inspection Comments	Inspection Date Created User (Inspection)
1864081 LOR-90-12.958 1987615 LOR-90-13.189	12.958 13.189	145.477 No Yes	Circular Circular	Plain or Reinforced Co Plain or Reinforced Co		250 Full Height Co	on:Full Height Concr Half Height Concr	8 6 Outlet is just about buried. Needs ditched some day.	8	7	7	8	8		7 7	7	8	8	7	2017-11-21 gbonafie 2021-09-24 dmorlock1
1806756 LOR-90-13.243		145.763 No	Circular	Plain or Reinforced Co		115 Catch Basin		Moved dot to this location. May have been upsized during 5 construction of new ramps.	8 :		8	,	8 7		7 8		,		8	2021-09-24 dmorlock1
1873048 LOR-90-13.255	13.255	145.775 Yes	Circular	Plain or Reinforced Co		172 Cataly David	Half Height Concr	New section of plastic to original concrete joint is pathetic for contractor work. Team mayhem "jones and white" 6 should have caught that.		_	_	_			-			_	Plastic to concrete joint outside road at 7 basin is horrible.	2021-09-24 dmorlock1
18/3048 LUR-90-13.255	13.255	145.775 Tes	Circular	Plain of Reinforced Cr	15	133 Catch Basin	nail neight Concr	o should have caught that.	/	/	/	/	0 0	,	/ 8	٥	,	/	Pipe was jetted but camera shows calcium all throughout.	2021-09-24 dmondck1
1873051 LOR-90-13.455	13.455	145.975 Yes	Circular	Plain or Reinforced Co	15	35 Catch Basin	None	7 Basin in gore outlets over hill north Inlets in median, runs on a south eastern skew to smaller	7	7	7		7 7	8	5 7	8	7	7	7 Video in the O drive.	2021-10-20 dmorlock1
1873052 LOR-90-13.490	13.49	146.01 No	Circular	Plain or Reinforced Co	15	112 Catch Basin	Unknown	basin in eb on ramp then goes over the hill to the ditch 7 below.	8	7	7		8 7	7	7 7	8		7	7 Had emergency repair done to it to fix the	2021-09-23 dmorlock1
1829951 LOR-90-13.522	13.522	146.042 No	Circular	Corrugated Metal - Se	108	342 Half Height C	on Half Height Concr	20	8	8 7	7	7	7	7	6 7	8	7	7	bottom of conduit. Very nice job. Could 7 use some dump rock at outlet.	2021-06-11 dmorlock1
1873008 IOR-90-14,099	14.099	146.619 Yes	Circular	Plain or Reinforced Co	18	250 Catch Basin	Unknown	Changed footage to 250. Goes from eb basin to median basin then over the hill to the north. Enbankment is steep and my back is hurt today so i wont go down for fear of not getting back w. An loss is of weltet at this time. Also had plastit added to median both ways. Concrete under 8 roadways though.	5	8	5		7 9	8	9 9	8	8	6	Remote push camera was performed from median catch basin to outlet due to large ruin the tembankment on outlet end. Rut is not caused by conduit. Minor misalignment 21 (joints exposing black sealer but no signs of infittation. Hardine cracking in the conduit that is under the roadway. Conduit and end structures look good. Cuber appears to be functioning as designed. 5 Video is on C-Drive	2022-05-09 cpenix1 & CAL
1873009 LOR-90-14.138	14.138	146.658 No	Circular	Plain or Reinforced Co	18	226 Catch Basin	Half Height Concr	Has plastic added to conduit in median both sides. Concrete 8 under roadway.	e 7	7	7	7	8 7	8	8 8	7	7	8	I think there was work done to the outlet from major errosion a few years ago. Looks 7 good	2021-09-20 odotonline\dmorlock1
								s underroadway.					8 /	8	8 8			8	Inlet channel runs from the south under a hill, then to manhole con the hill, then to a bursed manhole (possibly under WB roadway) then nurs north to outlet. Wood shavings and branches are in the outlet. Anner bu its to affecting the water flow. Remote inspection was performed from manhole to manhole and the concrete conduit its in like new condition. Inspection material, joints and shape was based on what was visible from outlet. Photos were taken and placed on the inventory. Video	
1974912 LOR-90-14.165 1873010 LOR-90-14.314		No 146.835 Yes	Circular	Polyvinyl Chloride Corrugated Plastic - Si	36	220 Half Height Co 188 Catch Basin	on Half Height Concr	25 Conduit was converted to plastic when the bridge was 6 replaced.	9	8 7	8	7	8	8	7 7	8	9	8	7 is on O-Drive. North end needs jetted. Has some dirt in 7 pipe.	2018-06-19 wcontrer1 2021-08-02 odotonline\dmorlock1
1873011 LOR-90-14.418		Yes	Circular	Corrugated Plastic - Si		198 Catch Basin		Changed to plastic when bridge was replaced. Has some sill 6 built up that could be jetted out.			7		8 8	8	7 7		7			2021-08-02 odotonline\dmorlock1
1873012 LOB-90-14 471	14.471	146.991 No	Circular	Corrugated Plastic - Si	24	114 Catch Basin	Half Height Concr	Conduit was changed to plastic when road and bridge were 10 redone. Pipe is a little egg shaped.	7	7 6	7	8	8 7	7	8 8	7	7	8	Pipe is egg shaped but not coming apart in 6 any way that causes alarm yet.	2021-09-20 odotonline\dmorlock1
1873013 LOR-90-15.138		147.658 No	Circular	Plain or Reinforced Co		104 Catch Basin		a reason of the state of the st		, ,	,		7		7 0	,			Trash was blocking outlet that was removed during inspection. It appears that mortar is coming through joints 2 and 3 from inlet. Water flow is good but ponding 7 at the outlet end of conduit.	2022-05-09 cpenix1
1873014 LOR-90-15.175	15.175	147.695 No		izonti Plain or Reinforced Cr				5 Changed dimensions to 52 inch by 35 inch eliptical.	7	7	7	7	7	7	4 8	7		8	7 about half full.	2021-09-20 odotonline\dmorlock1
1873015 LOR-90-15.452	15.452	147.973 No	Circular	Plain or Reinforced Co	24	150 Catch Basin	Catch Basin	Cb in wb ramp ditch outlets in median cb then flows east 10 through a large pipe to manhole before 254 overpass.	7	7	7		7 7	7	7 8	6			7	2021-09-23 dmorlock1
1987604 LOR-90-15.550	15.55	148.07 No	Circular	Plain or Reinforced Co	15	120 Catch Basin	Catch Basin	Found this looking for another. Got it loaded with pics and inspected. Looks like a section of plastic was added at the 10 inlet basin at some point.	8	7	7		8 7	7	8 9	7		8	Pipe is on a slight skew plus curves between basins. Might be able to see in 7 picture.	2021-09-23 dmorlock1
1873017 LOR-90-15.741	15.741	148.261 No	Circular	Plain or Reinforced Cr	33	140 Catch Basin	Manhole	15 Inch from median to edge of rd. 33 Inch under road to 6 manhole in gore.	8	8	8		8 8	7	8 9	7		8	8 Camerad by d12.	2021-10-20 dmorlock1
1825124 LOR-90-15.925	15.925	No	Circular	Plain or Reinforced Co	15	126 Unknown	Unknown	1	8	8	8		8	8	4	8		7	8 otherside of rwf	2016-03-18 COLLECTOR@D31_AG
1825125 LOR-90-16.146	16.146	148.666 No	Circular	Plain or Reinforced Co	15	126 Unknown	Unknown	1	8	8	8		8 8	8	4 8	8		8	culvert good \ needs ditched \ditch is on 8 otherside of rwf	2016-03-18 COLLECTOR@D31_AG
1990146 LOR-90-16.245	16.245		Circular	Plain or Reinforced Co	15	125														
																			culvert good needs ditched ditch is on	
1825126 LOR-90-16.782	16.782	149.303 No	Circular	Plain or Reinforced Co	15	120 Unknown	Unknown	1 Raining too hard, i can come back another day to get pictures of all these from inside the pipe when its dry	8	8	7		8	8	4	8		8	7 otherside of rwf	2016-03-18 COLLECTOR@D31_AG
1873018 LOR-90-16.933	16.933	149.453 No	Circular	Plain or Reinforced Co	15	80 Catch Basin	None	enough for ipad outside the truck. For now its just my eyes 6 in the hole.	7	7	7		8 7	7	67	7		8	7	2021-09-22 odotonline\dmorlock1
1873019 LOR-90-16.953	16.953	149.474 No	Elliptical - Hori	izont: Plain or Reinforced Co	52 34	214 Half Height C	on Half Height Concr	Rise is 34 and span is 52 so i changed that. Changed to half hieght headwalls. Holds water due to cattails at outlet. 4 Otherwise nice shape.	7	7	7	7	8	7	5 7	6		8	7	2021-09-21 odotonline\dmorlock1
		149.493 No	Circular					Outlet busted by mowers. Not much blockage and no headwall. Too much rain for ipad outside truck. Inside of	7				8 7		6 7					
1873020 LOR-90-16.972	16.972	149.493 NO	Circular	Plain or Reinforced Co	15	85 Catch Basin	None	1 pipe is decent.	/	/	/		8 /	8	6 /			8	Has some blockage at both ends due to cattails. Some silt buildup throughout	2021-09-22 odotonline\dmorlock1
1873021 LOR-90-17.08	17.08	No	Elliptical - Hori	izontı Plain or Reinforced Co	48 74	194 Full HW	Full HW	1	8	8	7	8	7	7	6 8	7		8	conduit but causes no major problem 7 against water flow.	
1873022 LOR-90-17.274	17.274	149.794 No	Circular	Plain or Reinforced Co	15	88 Catch Basin	None	Outlet is chewed up by mowers. Has a little blockage between outlet and ditchline but doesnt really impead the 6 flow.	8	7	7		8 8	7	6 7	7		7	7	2021-09-22 odotonline\dmorlock1
1873024 LOR-90-17.412		149.932 No	Circular	Plain or Reinforced Co		88 Catch Basin		Raining too hard for ipad out of the truck. Outlet is open bu 8 no headwall. No scour either.	it 8		7		8 8	7	7 7	7		8	7	2021-09-22 odotonline\dmorlock1
1873023 LOR-90-17.433	17.433	149.954 No	Elliptical - Hori	izonti Plain or Reinforced C∢	105 68	281 Full Height Cc	oni Full Height Concn	6	7	6	6	8	8	8	7 9	6	8	8	Few (6 or 7) areas where concrete has spalled the size of a half dollar ioint sealer is deteriorating and starting to fall . A few joints have 2 lind; ago, 3 rad joint from outle thas 3 into Ago. There is no signs of infiltration. Sediment build up throughout some areas up to 6 indhes with wood hung up. Inlet channel partially hits left side of wing wall before going into conduit.	2022-05-16 cpenix1
1873025 LOR-90-17.483		150.003 No	Circular	Plain or Reinforced Co		88 Catch Basin		Looks like plastic extension was added to outlet with dump 5 rock protection.	8	7	7		8 8	7	7 7	7		8	7	2021-09-22 odotonline\dmorlock1
LOR-90-17.60	17.6							Pipe has maybe a foot oof silt in the bottom. Everything											Conduit runs parallel to mainline, no CFN assigned.	
1873026 LOR-90-17.826	17.826	150.346 No	Circular	Corrugated Metal - Se	84	294 Half Height C	on Half Height Concr	above the silt looked great, under the silt felt solid. Did not 35 see any holes forming from material rusting out.	t 7 :	8 7	7	8	7	7	5 7	7	8	6	7	2021-08-04 odotonline\dmorlock1
1873028 LOR-90-17.901	17.901	150.421 No	Circular	Plain or Reinforced Co	33	302 None	None	New bridges going in in this area. Everything looks good in 20 and around pipe.	8	7	7		7	6	67	6	7	6	Bridge replacements and asphalt going in 7 this location at this time. Pipe looks good.	2021-09-23 dmorlock1
								Has plastic extentions at inlet and outlet, concrete under											Remote inspection in O drive. Conduit is misaligned but the joints do not have infiltration. Conduit is working as	
1873030 LOR-90-18.151		150.671 No	Circular	Plain or Reinforced Co		97 Catch Basin		7 the road. Outlets past right of way fence. Needs ditching to drain all			6		7 7	6	7 7	6	7		6 designed. No corrective work needed.	2022-05-16 cpenix1 & CAL
1873031 LOR-90-18.295	18.295	150.815 No	Circular	Plain or Reinforced Co	21	139 Catch Basin	None	6 water out. Holds about 6 inches or more. Pipe looks good.	7	7	7		7 8	7	5 8	6		8	7	2021-09-21 odotonline\dmorlock1

Inspection Action Item	Recommendation for Project	Work for Lorain County	Cost Estin	nate
	Install HydraTite seal at the first joint from			
	the inlet end. Place dump rock at the outlet Replace CMP broken back portion.			5,000.00 0,000.00
	No work Replace first section of pipe from the inlet CB		\$	
	due to misalingment. Replace the corroded CMP broken back.		\$ 10	0,000.00
				.,
	Replace the CMP broken back portion only.	Lorain County to V-jet to break up Tufa	\$ 7	5,000.00
	Adjust CB in the pavement. Replace the CMP broken back portion.		\$ 10	0,000.00
	Place dump rock at the outlet		\$ 2	5,000.00
	Replace conduit due to numerous cracking in			
	the RCP pipe and the large gaps with several joints. Replace the CMP broken back as well.		\$ 20	0,000.00
	No work		\$	-
	No work Replace CMP broken back prtion at the		\$	-
	outlet.		\$ 10	0,000.00
	Replace CMP broken back portion.		\$ 10	0,000.00
	Replace at least 40' of deflected HDPE pipe measured from the median inlet to the north.		\$ 10	0,000.00
	HydraTite Seal on the first 2 joints from the inlet catch basin. HydraTite Seal on the first			
	joint from the outlet end.			5,000.00
	No work Repair inlet & outlet CB that is missing mortar & bricks.		\$	-
	& bricks.		\$	5,000.00
	No work.		\$	-
	At the gore, in between the catch basin and			
	the manhole, there is a non-standard conduit (using plow blades as a slab top). I recommend removing the catch basin and			
	remove/replace the conduit between the CB and the MH. Recommend remove/rebuild MH			
	as an access chamber with a grated inlet. Manhole has deteriorating mortar with water			
	infiltration. Median inlet CB has 15" conduit, outlet			
	conduit at manhole measures 33".			0,000.00
	No work At the outlet end, repair first joint due to		\$	-
	seperation. Either pour masonry collar or install HydraTite seal.		\$ 1	0,000.00
	Repair inlet CB that has missing mortar. At the outlet, reset the last section of conduit			
	that is misaligned . Repair the conduit's joint seperation that has		\$	5,000.00
	a sinkhole at the surface approx 12' from the WB EOP.		\$ 2	0,000.00
	No work		\$	
	At the inlet end, repair the delaminations on the elliptical conduit.		\$ 5	0,000.00
	HydraTite seal first joint from the median CB			
	towards the inlet CB.		\$	5,000.00
	No work		\$	
	No work		\$	
	No work		\$	
	HydraTite seal 3rd joint from the outlet end.		\$ 1	5,000.00
	No work		\$ 1	
	No work		\$	
	Line or Rehab corroding CMP pipe that has			
	section loss.			0,000.00
	No work		\$	-
	No work		\$	
	No work		\$	

Conduit Sum		Sector Se																	
Conduit File CRS Number (CFN)	CTL Begin STL Begin Number Number	Broken Back	Conduit Shape	Conduit Material	Span Rise Ler (Inches) (Inches) (Fe	ngth Inlet End eet) Treatment	Outlet End Treatment	Max Height of Inventory Comments Cover (Feet)	Conduit Material Conduit Conduit Shape Condition Alignmen Rating					Pavement Gua	rdrail Embankme G nt Ap		Inspection Date	Created User (Inspection)	Inspectio
1987603 LOR-47023-0.05 1872953 LOR-2-10.598 1987722 LOR-2-10.669	10.598 10.669		circular circular circular	RCP RCP plastic	36 96 12		Half hW Half HW CB	10 Manhole in gare where all pipes connect.	8 8	8	7 8	7 7	67	7	7	Located at the SR 254 WB exit ramp. 8 Down tree partially blocking inlet. Small amount of sediment build up though out conduit. Morn mailignment of joints with no exidence of infittation. Photos placed on inventory and was accidentally on last 7 inspection. 7			
1990193 LOR-2-10.682 1990194 LOR-2-10.732 1872956 LOR-2-10.852	10.682 10.732 10.852	No	circular circular circular	plastic plastic RCP	12 15 36	45 CB	CB CB Half HW	7 5 8								Minor misaligement at 2nd pinit from inlet that maybe by design. Small amount of sediment build up and a few rocks towards the inlet that does not appear to be restricting water flow. Remote pole 7 camera was used and is on the O-trive. Sediment build up throughout blocking about 236 of water flow. Remote pole inspection was performed and vide 0 is on Movier damage at inlet. All else is good 7 shape.			

1872955 LOR-2-10.858 10.858 No circular RCP 36 92

pection Action Item	Recommendation for Project	Work for Lorain County	Ci	ost Estimate
	Inlet MH is the same as CFN 1873017 outlet MH. Recommend remove/rebuild MH as an access chamber with a grated inlet.		\$	10,000.00
	No work No work	Remove tree at the inlet end	\$ \$	-
	No work		\$	-
	No work		\$	-
	No work		\$	-
	No work		\$ TOTAL=\$	2,465,000.00

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Conduit Summary Report - D3