

CITY of NOVI CITY COUNCIL

Agenda Item F April 24, 2017

SUBJECT: Adoption of Resolution requesting that the Michigan Department of Transportation (MDOT) include the bridges on Meadowbrook Road over Ingersol Creek, on Cranbrooke Drive over Ingersol Creek and on West Park Drive over the CSX railroad in the State Local Bridge Program List for Preventative Maintenance. If MDOT selects these bridges, the City of Novi will accept 5% of the total cost.

SUBMITTING DEPARTMENT: Department of Public Services, Engineering Division GDM

CITY MANAGER APPROVAL:

BACKGROUND INFORMATION:

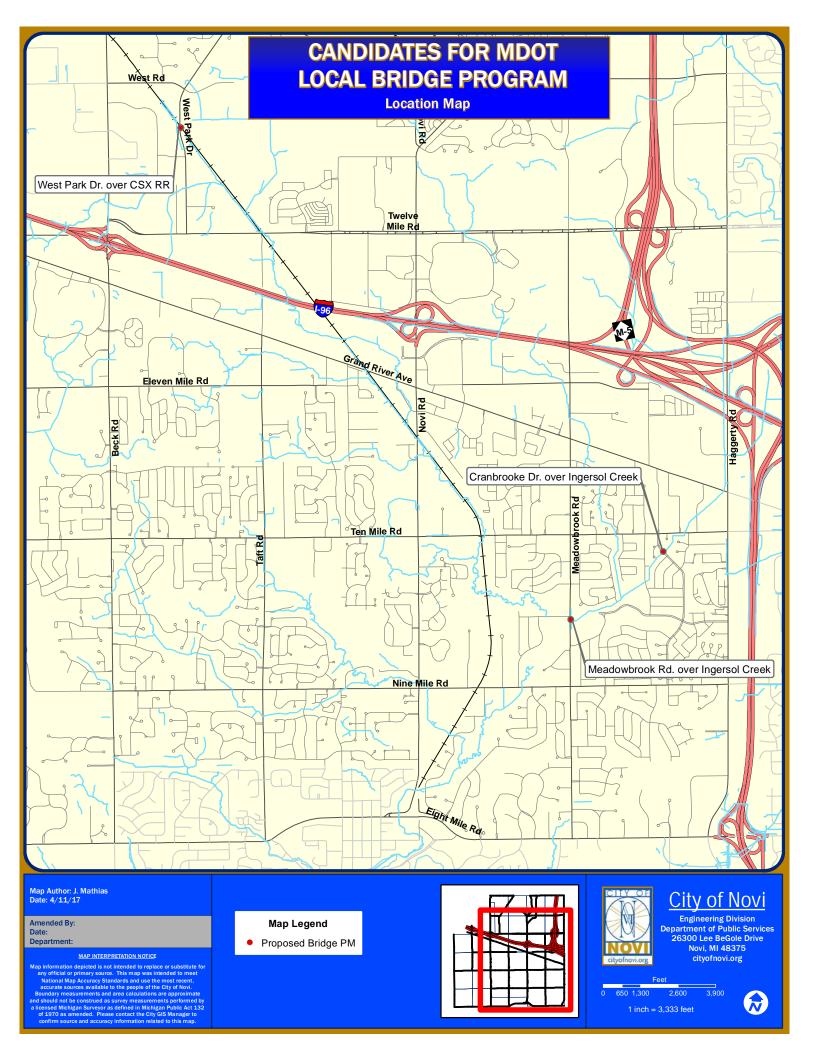
The City of Novi has retained OHM Advisors to complete the 2016 Annual Bridge Inspection of 10 city maintained bridges. OHM Advisors concluded that three bridges are in need of repair. The bridges are located on Meadowbrook Road over Ingersol Creek, on Cranbrooke Drive over Ingersol Creek, and on West Park Drive over the CSX Railroad (see Location Map). OHM Advisors recommends that the City of Novi pursue options to repair the bridges with Preventative Maintenance (PM) techniques to avoid more costly rehabilitation or reconstruction in the future.

The City of Novi owned bridges qualify as candidates for the Michigan Department of Transportation (MDOT) Local Bridge Program for PM. MDOT is currently accepting applications for the (FY 2020) Local Bridge Program which has an estimated \$48 million budget. OHM Advisors will submit applications to MDOT to include these bridges in the Local Bridge Program. If MDOT selects these bridges, the City will only be responsible for 5% of the total cost. Currently, the application includes bridge repair cost estimation sheets with a total estimated cost of \$345,000 including specific repair techniques and associated costs for each bridge (see Worksheets). The estimated cost for the City would be \$17,250.

As part of the application process the applicant is required to provide a current resolution, signed and dated, from the governing board supporting the project. The adoption of the proposed resolution would demonstrate to MDOT that the City Council supports the PM of the three bridges and will do all that is reasonably necessary in order to accomplish the repair of the bridges. Any application not containing a signed resolution will be considered incomplete and rejected.

The City Attorney has reviewed the resolution and sees no legal impediment (Beth Saarela's Letter).

RECOMMENDED ACTION: Adoption of Resolution requesting that the Michigan Department of Transportation (MDOT) include the bridges on Meadowbrook Road over Ingersol Creek, on Cranbrooke Drive over Ingersol Creek and on West Park Drive over the CSX railroad in the State Local Bridge Program List for Preventative Maintenance. If MDOT selects these bridges, the City of Novi will accept 5% of the total cost.



Ingersol Creek

Exhibit 4 - Cost Estimating Worksheets

LAP - BRIDGE COST ESTIMATE WORKSHEET - CPM, REHAB, REPLACE -

FISCAL YEAR: 2020 DATE:

ENGINEER: STRUCTURE ID: 8246 3/15/2017 LOCATION: Meadowbrook Rd over Courter Ditch DECK AREA: 2,775 SFT BRIDGE ID: B01-63448 PRIMARY WORK ACTIVITY: Epoxy Overlay, Joint sealing, and Approach work DECK DIM: 62'x44.75' STR. TYPE: Multiple Box Beam

PRIMARY WORK ACTIV	ITY: Epoxy Overlay, Joint se	ealing, and Approach work DECK	DIM: 62'x44.75'		SIR	. TYPE:	Multiple Box Beam
NEW BRIDGE	WORK ACTIVITY		QUANTITY	<u>UNIT</u>	UNIT COS	<u>ST</u>	<u>TOTAL</u>
Multiple Spans, Co	ncrete	(add demo & road approach & MOT)		SFT	\$220.00	/SFT	
Multiple Spans, Ste	eel	(as above)		SFT	\$245.00	/SFT	
Over Water or Sing		(add to replacement cost)		SFT	\$85.00		
Precast 3-sided or	4-sided Culvert	(add removal, roadway over, MOT)		SFT	\$400.00	/SFT	
Other							
IEW SUPERSTRUCTUR							
Concrete		exist super, new railing; add MOT & approach)		SFT	\$140.00		
Steel Over Water	(as above)	auporatruotura aaat\		SFT	\$190.00		
Other	(add to new s	superstructure cost)		SFI	\$40.00	/SF1	
				1			
VIDENING Added portion only	. ft of width	(add road approach transition)		SFT	\$270.00	/CET	
Other	It of width	(add road approach transition)		SFI	\$270.00	/SF I	
				1			
NEW DECK	viet deal: 0 may railing	(add traffic control & approach)		SFT	\$70.00	/CET	
Other	xist deck & new railing	(add traffic control & approach)		SFI	\$70.00	/SF I	
DEMOLITION				OFT	000.00	OFT	
Entire bridge, grad				SFT	\$32.00 \$42.00		
Entire bridge, over Other	water			SFI	\$42.00	/SF1	
UPERSTRUCTURE RE		Control of the contro		057	005.55	OFT.	
Concrete Deck Pat	cn	(includes hand chipping)		SFT	\$35.00 \$100.00		
Full Depth Patch HMA Cap		(no membrane, add bridge rail if reg'd)		SFT	\$100.00 \$1.50		
HMA Overlay with	WP membrane	(add bridge rail if reg'd)		SFT	\$5.50		
	ete Wearing Course (latex)			SFT	\$2.00		
Healer Sealer	5 (. , , , , , , , , , , , , , , , , , , ,		SYD	\$22.00		
Epoxy Overlay			207.0	SYD	\$32.00	/SYD	\$6,62
Shallow Overlay		(incl. joint repl & hydro; add bridge rail)		SFT	\$35.00		
Deep Overlay		(incl. joint repl & hydro; add bridge rail)		SFT	\$37.00		
High Load Hit Repa		(PCI Beam)		SFT	\$250.00		
PCI Beam End Rep		(0.4000 11 0.7000 11 1)		EA	\$4,600.00		
Repair Structural St		(\$4900 bolted, \$7000 welded)		EA	\$6,000.00		
Paint Structural Ste Partial Painting	eei	(incl. clean & coat) (incl. clean & coat)		SFT	\$20.00 \$40.00		
Pin & Hanger repla	rement	(incl. temporary supports)		EA	\$7,000.00		
Resealing Bridge C		(hot poured rubber)	90.0	FT	\$18.00		\$1,62
Other	onstruction doints	(not poured rubber)	30.0	- ' '	ψ10.00	/1 1	Ψ1,02
	15						
Pier repair	air.	(measured x 2) Replace if repair area > 30%		CFT	\$265.00	/CET	
Pier repair over wa	tor	(measured x 2) Replace if repair area > 50% (measured x 2)		CFT	\$300.00		
Pier replacement	itei	(Illeasured X 2)		CFT	\$80.00		
Abutment repair		(measured x 2)		CFT	\$265.00		
	ts for Substructure Repair	(EA	\$1,800.00		
Slope Protection re				SYD	\$140.00		
Other							
MISCELLANEOUS							
Expansion or Cons	struction Joints	(includes removal)		FT	\$550.00	/FT	
Bridge Railing, rem		(\$250 Type 4, \$305 Aesthetic Parapet)		FT	\$280.00	/FT	
Thrie Beam Railing				FT	\$40.00		
	ete Block System (ACB)			SYD	\$120.00		
Scour Countermea	sures			LSUM		LSUM	
Other							
			STRUCTURE (CONSTR	UCTION BU	DGET	\$8,24
ROAD WORK							
Approach Paveme		(add C & G, GR, Slope, Shldr.) 40' ea. end	360.0	SFT	\$16.00		\$5,76
Approach Curb & C		(18' ea. quad.)		FT	\$50.00		
Guardrail Anchorage Guardrail, Type B		(<40') (beyond GR anchorage to bridge, <200')		quads FT	\$1,600.00 \$22.00		
Guardrail, Type B o	JI I	(end section)		EA	\$1,750.00		
Roadway Approacl	h work	(beyond approach pavement)		LSUM		LSUM	
Utilities		(,		LSUM		LSUM	
	Remove and Replace)		22.0	SYD	\$64.00		\$1,40
RAFFIC CONTROL		mined by Region or TSC Traffic & Safety					
Part Width Constru				LSUM		LSUM	
Crossovers				EA	\$300,000.00		
Temporary Traffic	Signals			set	\$25,000.00		
RR Flagging				LSUM		LSUM	
Detour			1.0	LSUM	\$50,000.00	LSUM	\$50,00
Other				LSUM		LSUM	
		REI ATEN RO	DAD/TRAFFIC (CONSTR	LICTION BU	DGET	\$57,16
ONTINGENCY		gher contingency for small projects)	20		\$65,000.0		\$13,00
MOBILIZATION	(estimate at 10%)		10		\$78,000.0		\$8,00
NFLATION	(assume 3% per yea	r, peginning in 2018)	9	%	\$86,000.0	JU	\$8,00
			TOTAL COL	ICTDII	CTION DUIS	OFT.	***
OES NOT INCLUDE PE & C	E)		TOTAL CON	13 I KU(TION BUL	JUEI	\$94,00

REV. 12/14/2016

REGION:

Metro

Ingersol Creek

Exhibit 4 - Cost Estimating Worksheets

LAP - BRIDGE COST ESTIMATE WORKSHEET- CPM, REHAB, REPLACE -

OF W, RETIND, R

REGION: Metro

FISCAL YEAR: 2020

ENGINEER: DATE: 3/15/2017 STRUCTURE ID: 8248

LOCATION: Cranbrooke Dr over Gourter-Ditch
PRIMARY WORK ACTIVITY: Pavement Replacement, Joint sealing

DECK AREA: 3,192 SFT BRIDGE ID: B01-63548

DECK DIM: 42'x76' STR. TYPE: Adjacent Double T

Full Depth Patch	PRIMARY WORK ACTIVITY: Pave	ment Replacemen	t, Joint sealing	DECK DIM:	42'x76'		STR.	TYPE:	Adjacent Double T
Multiple Spans, Concrete (add demo & noad approach & MOT) SFT \$220.00/SFT Multiple Spans, Clear See		RK ACTIVITY			QUANTITY	<u>UNIT</u>	<u>UNIT COS</u>	<u>T</u>	<u>TOTAL</u>
Multiple Spans, Steel			(add demo & road approach & MOT)			SET	\$220.00	/SFT	
Over Willer of Single Spain (add to replacement coat)									
Concrete	Over Water or Single Span		(add to replacement cost)						
New SuperStructUse		ulvert	(add removal, roadway over, MOT)			SFT	\$400.00	SFT	
Concrete									
Section		(incl. remove	exist super, new railing; add MOT & appro-	ach)		SFT	\$140.00	/SFT	
Differ Differ Differ Differ Differ Differ Differ Differ Differ Differ Differ Differ Differ Differ Differ Differ		(as above)		,					
Modern		(add to new s	superstructure cost)			SFT	\$40.00	SFT	
Added portion only									
SPT \$70.00 SPT \$70.00 SPT \$70.00 SPT S	Added portion only.	ft of width	(add road approach transition	on)		SFT	\$270.00	/SFT	
Includes remove exist deck & new railing									
Employed SPT \$2,00 SPT	Includes remove exist deck 8	new railing	(add traffic control & approa	ch)		SFT	\$70.00	/SFT	
Entire bridge, grade separation									
Entire bridge, over water SFT \$42,00 SFT \$43,00 SFT		on				SFT	\$32.00	SFT	
Concrete Deck Patch	Other								
Full Depth Patich									
HMA Cap			(includes hand chipping)		40.0				\$1,40
HMA Overlay with WP membrane			(no membrane, add bridge rail if roald)						
Removal of Concrete Wearing Course (latex), Epoxy Ovfr, or HMA Ovfy		rane							
Epoxy Overlay									
Shallow Overlay (incl. joint repl & hydro; add bridge rail)									
Deep Overlay									
High Load Hit Repair									
PCI Beam End Repair									
Paint Structural Steel (incl. clean & coat) SFT \$20,00 /SFT Parlal Painting (incl. clean & coat) SFT \$40,00 /SFT Pin & Hanger replacement (incl. clemporary supports) EA \$7,000,00 EA Resealing Bridge Construction Joints (incl. clemporary supports) 40.0 FT \$18.00 /FT Waterproofing membrane 1,722.0 SFT \$4,00 /SFT \$6.00 /SFT Waterproofing membrane 1,722.0 SFT \$4,00 /SFT \$6.00 /SFT Waterproofing membrane SFT \$4,00 /SFT \$6.00 /SFT Pier repair over water (measured x 2) Replace if repair area > 30% CFT \$286.00 /CFT Pier repair over water (measured x 2) CFT \$300.00 /CFT Pier repair over water (measured x 2) CFT \$300.00 /CFT Pier repair over water (measured x 2) CFT \$300.00 /CFT Pier repair over water (measured x 2) CFT \$300.00 /CFT Pier repair over water (measured x 2) CFT \$300.00 /CFT Pier repair over water (measured x 2) CFT \$300.00 /CFT Pier repair over water (measured x 2) CFT \$300.00 /CFT Pier repair over water (measured x 2) CFT \$300.00 /CFT Pier repair over water (measured x 2) CFT \$300.00 /CFT Pier repair over water (measured x 2) CFT \$300.00 /CFT Pier repair over water (measured x 2) CFT \$300.00 /CFT Pier repair over water (measured x 2) CFT \$300.00 /CFT Pier repair over water (measured x 2) CFT \$300.00 /CFT Pier repair over water (measured x 2) CFT \$300.00 /CFT Pier repair over water (measured x 2) CFT \$300.00 /CFT Pier repair over water (measured x 2) CFT \$300.00 /CFT Pier repair over water (measured x 2) CFT \$300.00 /CFT Pier repair over water (measured x 2) CFT \$300.00 /CFT Pier repair over water (measured x 2) CFT \$300.00 /CFT Pier repair over water (measured x 2) CFT \$300.00 /CFT Pier repair over water (measured x 2) CFT \$300.00 /CFT Pier repair over water (measured x 2) CFT \$300.00 /CFT Pier repair over wa			(i or bodin)						
Partial Painting						EA	\$6,000.00	EA	
Pin & Hanger replacement									
Resealing Bridge Construction Joints (hot poured rubber)									
Waterproofing membrane		n lointo			40.0				\$72
Pier repair		II JOINIS	(not poured rubber)						\$6,88
Pier repair					1,122.0		ψ 1.00 μ	0	φο,σοι
Pier repair over water			(measured x 2) Replace if repair area	30%		CFT	\$265.00	CFT	
Pier replacement				0070					
EA \$1,800.00 EA			,			CFT	\$80.00	CFT	
Syp \$140.00 SyD			(measured x 2)						
SISCELLANEOUS Expansion or Construction Joints (includes removal) FT \$550.00 FT Bridge Railing, remove and replace (\$250 Type 4, \$305 Aesthetic Parapet) FT \$280.00 FT Thrie Beam Railing retrofit FT \$40.00 FT Articulating Concrete Block System (ACB) SYD \$120.00 SYD Stour Countermeasures LSUM LSUM LSUM LSUM College Symbol Symbo		structure Repair							
Expansion or Construction Joints (includes removal) FT \$550.00 FT						OID	ψ140.00 <i>/</i>	OID	
Bridge Railing, remove and replace \$250 Type 4, \$305 Aesthetic Parapet FT \$280.00 FT									
Thrie Beam Railing retrofit									
Articulating Concrete Block System (ACB) SYD \$120.00 /SYD Scour Countermeasures LSUM LSUM LSUM Cheer STRUCTURE CONSTRUCTION BUDGET STRUC		eplace	(\$250 Type 4, \$305 Aesthetic Parapet)						
Scour Countermeasures		vetom (ACR)							
STRUCTURE CONSTRUCTION BUDGET S9		ystem (ACD)							
Approach Pavement, 12" RC									
Approach Pavement, 12" RC				STR	UCTURE C	ONSTR	UCTION BUI	DGET	\$9,008
Approach Curb & Gutter									
Guardrail Anchorage to Bridge (<40') quads \$1,600.00 quad quads \$1,600.00 quad quads quads \$1,600.00 quad quads qu				end	840.0				\$13,44
Guardrail, Type B or T (beyond GR anchorage to bridge, <200') FT \$22.00 FT Guardrail Ending (end section) EA \$1,750.00 EA \$10.00 EA \$		0							
Guardrail Ending		e		')					
Sidewalk in median Sealing pavement joints (includes pavement joints and median pavement) 228.0 FT \$10.00 SFT \$20.0 SFT \$20.00 SFT \$20				,					
Sealing pavement joints (includes pavement joints and median pavement) 228.0 FT \$18.00 /FT \$48.00									
RAFFIC CONTROL Unit Cost to be determined by Region or TSC Traffic & Safety									\$8,82
Part Width Construction					228.0	FI	\$18.00	/FI	\$4,10
Crossovers		Cost to be deteri	mined by Region or TSC Traffic & Safety			LOUINA		CLINA	
Temporary Traffic Signals									
RR Flagging									
Detour Other									
RELATED ROAD/TRAFFIC CONSTRUCTION BUDGET \$56 ONTINGENCY (10% - 20%) (use higher contingency for small projects) 20 % \$65,000.00 \$13 OBILIZATION (estimate at 10%) 10 % \$78,000.00 \$6 IFLATION (assume 3% per year, beginning in 2018) 9 % \$86,000.00 \$6	Detour				1.0	LSUM	\$30,000.00	LSUM	\$30,00
ONTINGENCY (10% - 20%) (use higher contingency for small projects) 20 % \$65,000.00 \$13 OBILIZATION (estimate at 10%) 10 % \$78,000.00 \$8 IFLATION (assume 3% per year, beginning in 2018) 9 % \$86,000.00 \$8	Other					LSUM		LSUM	
OBILIZATION (estimate at 10%) 10 % \$78,000.00 \$8 IFLATION (assume 3% per year, beginning in 2018) 9 % \$86,000.00 \$8			RELATE	D ROAD/	TRAFFIC C	ONSTR	UCTION BUI	DGET	\$56,36
IFLATION (assume 3% per year, beginning in 2018) 9 \$86,000.00 \$8	,		her contingency for small projects)						\$13,00
									\$8,000
TOTAL CONSTRUCTION PURCET	IFLATION (ass	ume 3% per year	, beginning in 2018)		9	%	\$86,000.0	υ	\$8,000
	OOES NOT INCLUDE PE & CE)	<u> </u>		TO	TAL CON	etpu/	CTION DUE	CET	\$94,000

REV. 12/14/2016

Exhibit 4 - Cost Estimating Worksheets

LAP - BRIDGE COST ESTIMATE WORKSHEET - CPM, REHAB, REPLACE -

REV. 12/14/2016

FISCAL YEAR: 2020 REGION: Metro ENGINEER: DATE: 3/15/2017

12769 **R01-63448** STRUCTURE ID: LOCATION: W. Park Dr over CSX Railroad
PRIMARY WORK ACTIVITY: Epoxy Overlay, Barrier Repair, Approach Work DECK AREA: DECK DIM: 8,987 SFT BRIDGE ID: 151.25' x 59.42' STR. TYPE: Adjacent Box Beam

	Epoxy Overlay, Barrier	Repair, Approach Work DECK Dilvi	. 151.25 X			Aujacent box beam
NEW BRIDGE	WORK ACTIVITY		QUANTITY	<u>UNIT</u>	<u>UNIT COST</u>	<u>TOTAL</u>
Multiple Spans, Concr	ete	(add demo & road approach & MOT)		SFT	\$220.00 /SFT	
Multiple Spans, Steel		(as above)		SFT	\$245.00 /SFT	
Over Water or Single		(add to replacement cost)		SFT	\$85.00 /SFT	
Precast 3-sided or 4-s Other	ded Culvert	(add removal, roadway over, MOT)		SFT	\$400.00 /SFT	
EW SUPERSTRUCTURE						
Concrete		exist super, new railing; add MOT & approach)		SFT	\$140.00 /SFT	
Steel	(as above)			SFT	\$190.00 /SFT	
Over Water Other	(add to new s	superstructure cost)		SFT	\$40.00 /SFT	
VIDENING						
Added portion only Other	ft of width	(add road approach transition)		SFT	\$270.00 /SFT	
NEW DECK						
Includes remove exist Other	deck & new railing	(add traffic control & approach)		SFT	\$70.00 /SFT	
DEMOLITION						
Entire bridge, grade se				SFT	\$32.00 /SFT	
Entire bridge, over war Other	er			SFT	\$42.00 /SFT	
SUPERSTRUCTURE REPA	R					
Concrete Deck Patch		(includes hand chipping)		SFT	\$35.00 /SFT	
Full Depth Patch HMA Cap		(no membrane, add bridge rail if req'd)	-	SFT	\$100.00 /SFT \$1.50 /SFT	
HMA Overlay with WP	membrane	(add bridge rail if reg'd)		SFT	\$5.50 /SFT	
		(add bridge rail if req d) , Epoxy Ovly, or HMA Ovly	1	SFT	\$5.50 /SFT \$2.00 /SFT	
Healer Sealer	vearing course (latex)	, Epoxy Oviy, or riiviA Oviy		SYD	\$22.00 /SYD	
Epoxy Overlay			710.0	SYD	\$32.00 /SYD	\$22.72
Shallow Overlay		(incl. joint repl & hydro; add bridge rail)		SFT	\$35.00 /SFT	+,:-
Deep Overlay		(incl. joint repl & hydro; add bridge rail)		SFT	\$37.00 /SFT	
High Load Hit Repair		(PCI Beam)		SFT	\$250.00 /SFT	
PCI Beam End Repair		· · · · · · · · · · · · · · · · · · ·		EA	\$4,600.00 EA	
Repair Structural Stee		(\$4900 bolted, \$7000 welded)		EA	\$6,000.00 EA	
Paint Structural Steel		(incl. clean & coat)		SFT	\$20.00 /SFT	
Partial Painting		(incl. clean & coat)		SFT	\$40.00 /SFT	
Pin & Hanger replacer	nent	(incl. temporary supports)		EA	\$7,000.00 EA	
Resealing Bridge Con Other	struction Joints	(hot poured rubber)	198.0	FT	\$18.00 /FT	\$3,56
SUBSTRUCTURE REPAIR				I		
Pier repair		(measured x 2) Replace if repair area > 30%	12.0	CFT	\$265.00 /CFT	\$3,18
Pier repair over water		(measured x 2)		CFT	\$300.00 /CFT	
Pier replacement				CFT	\$80.00 /CFT	
Abutment repair		(measured x 2)		CFT	\$265.00 /CFT	
Temporary Supports for Slope Protection repair	or Substructure Repair			EA SYD	\$1,800.00 EA \$140.00 /SYD	
Other				OID	\$140.000761B	
MISCELLANEOUS						
Expansion or Construc		(includes removal)		FT	\$550.00 /FT	
Bridge Railing, remove		(\$250 Type 4, \$305 Aesthetic Parapet)		FT	\$280.00 /FT	
Thrie Beam Railing re				FT	\$40.00 /FT	
Articulating Concrete I Scour Countermeasur				SYD	\$120.00 /SYD	
Other (railing repair)	28		4.0	LSUM	\$265.00 /CFT	\$1,06
		STR	UCTURE C	ONSTRI	JCTION BUDGET	\$30,52
ROAD WORK						
Approach Pavement,		(add C & G, GR, Slope, Shldr.) 40' ea. end		SFT	\$16.00 /SFT	
Approach Curb & Gutt		(18' ea. quad.)	0.0	FT	\$50.00 /FT	***
Guardrail Anchorage t	o Ruade	(<40')	2.0	quads	\$1,600.00 /quad	\$3,20
Guardrail, Type B or T Guardrail Ending		(beyond GR anchorage to bridge, <200')	-	FT	\$22.00 /FT	
	nrk	(end section) (beyond approach pavement)	+	EA LSUM	\$1,750.00 /EA LSUM	
Roadway Approach w	711X	(ocyona approach pavement)	+	LSUM	LSUM	
Roadway Approach w			10.0	SFT	\$200.00 /SFT	\$2,00
Utilities						
	and Replace)		32.0	SYD	\$90.00 /SYD	\$∠,00
Utilities Approach Patching Other (Sidewalk Rem TRAFFIC CONTROL	Unit Cost to be deter	mined by Region or TSC Traffic & Safety				φ2,00
Utilities Approach Patching Other (Sidewalk Rem TRAFFIC CONTROL Part Width Construction	Unit Cost to be deter	mined by Region or TSC Traffic & Safety		LSUM	LSUM	\$ 2,00
Utilities Approach Patching Other (Sidewalk Rem TRAFFIC CONTROL Part Width Construction Crossovers	Unit Cost to be deter	mined by Region or TSC Traffic & Safety		LSUM EA	\$300,000.00 EA	\$2,00
Utilities Approach Patching Other (Sidewalk Rem TRAFFIC CONTROL Part Width Constructic Crossovers Temporary Traffic Sign	Unit Cost to be deter	mined by Region or TSC Traffic & Safety	32.0	LSUM EA set	\$300,000.00 EA \$25,000.00 /set	
Utilities Approach Patching Other (Sidewalk Rem TRAFFIC CONTROL Part Width Constructic Crossovers Temporary Traffic Sign RR Flagging	Unit Cost to be deter	mined by Region or TSC Traffic & Safety	32.0	LSUM EA set LSUM	\$300,000.00 EA \$25,000.00 /set \$20,000.00 LSUM	\$20,00
Utilities Approach Patching Other (Sidewalk Rem TRAFFIC CONTROL Part Width Constructic Crossovers Temporary Traffic Sign	Unit Cost to be deter	mined by Region or TSC Traffic & Safety	32.0	LSUM EA set	\$300,000.00 EA \$25,000.00 /set	\$20,00
Utilities Approach Patching Other (Sidewalk Rem TRAFFIC CONTROL Part Width Constructic Crossovers Temporary Traffic Sign RR Flagging Detour	Unit Cost to be deter	mined by Region or TSC Traffic & Safety RELATED ROAD/	32.0 1.0 1.0	LSUM EA set LSUM LSUM LSUM	\$300,000.00 EA \$25,000.00 Set \$20,000.00 LSUM \$50,000.00 LSUM LSUM	\$20,00 \$50,00
Utilities Approach Patching Other (Sidewalk Rem TRAFFIC CONTROL Part Width Constructic Crossovers Temporary Traffic Sign RR Flagging Detour	Unit Cost to be detern n nais		32.0 1.0 1.0	LSUM EA set LSUM LSUM LSUM LSUM	\$300,000.00 EA \$25,000.00 Set \$20,000.00 LSUM \$50,000.00 LSUM LSUM	\$2,88 \$20,00 \$50,00 \$78,08
Utilities Approach Patching Other (Sidewalk Rem TRAFFIC CONTROL Part Width Constructic Crossovers Temporary Traffic Sign RR Flagging Detour Other	Unit Cost to be detern n nais	RELATED ROAD/	1.0 1.0	LSUM EA set LSUM LSUM LSUM CONSTRI	\$300,000.00 EA \$25,000.00 /set \$20,000.00 LSUM \$50,000.00 LSUM LSUM	\$20,00 \$50,00 \$78,08



JOHNSON ROSATI SCHULTZ JOPPICH PC

27555 Executive Drive Suite 250 ~ Farmington Hills, Michigan 48331 Phone: 248.489.4100 | Fax: 248.489.1726

Elizabeth Kudla Saarela esaarela@jrsjlaw.com

www.jrsjlaw.com

April 12, 2017

George D. Melistas, Engineering Senior Manager CITY OF NOVI Department of Public Services Field Services Complex 26300 Lee BeGole Drive Novi, MI 48375

Re: Michigan Department of Transportation (MDOT) Local Bridge Program

Dear Mr. Melistas:

We have received and reviewed the proposed Resolution Requesting that the Michigan Department of Transportation Include the Bridges on Meadowbrook Road Over Ingersol Creek, on Cranbrooke Drive over Ingersol Creek, and on West Park Drive over the CSX Railroad in the State Local Bridge Program List for Preventative Maintenance. The Resolution is for the purpose of authorizing the City's Engineering Consultant to submit an application on behalf of the City to participate in MDOT's Local Bridge Program. The Resolution authorizes the City to commit toward payment of 5% of the cost of the preventative maintenance costs for the three named bridges. It is our understanding that the Resolution is required for MDOT to consider the City's Application for program participation. We see no legal impediment to approval of the Resolution as proposed.

If you have any questions regarding the above, please do not hesitate to contact me.

Very truly yours,

JOHNSON, ROSATI, SCHULTZ & JOPPICH, P.C.

Elizabeth Kudla Saarela

EKS Enclosure George Melistas, Senior Engineering Manager April 12, 2017 Page 2

C: Cortney Hanson, Clerk (w/Enclosure)
Aaron Staup, Construction Engineer (w/Enclosure)
Joey Mathias, Graduate Engineer (w/Enclosure)
Thomas R. Schultz, Esquire (w/Enclosure)

CITY OF NOVI

COUNTY OF OAKLAND, MICHIGAN

RESOLUTION REQUESTING THAT THE MICHIGAN DEPARTMENT OF TRANSPORTATION INCLUDE THE BRIDGES ON MEADOWBROOK ROAD OVER INGERSOL CREEK, ON CRANBROOKE DRIVE OVER INGERSOL CREEK AND ON WEST PARK DRIVE OVER THE CSX RAILROAD IN THE STATE LOCAL BRIDGE PROGRAM LIST FOR PREVENTATIVE MAINTENANCE

Minutes of a Meeting of the City Council of the City of Novi, County of Oakland, Michigan, held in the City Hall of said City on April 24, 2017, at 7 o'clock P.M. Prevailing Eastern Time.

PRESENT: Councilmembers	
ABSENT: Councilmembers	
The following preamble and Resolution were offered by Councilmember	
and supported by Councilmember	

WHEREAS; OHM Advisors, Consulting Engineers for the City of Novi, completed the 2016 annual inspection of ten bridges in the City, three of which were the bridges on Meadowbrook Road over Ingersol Creek, Cranbrooke Drive over Ingersol Creek and West Park Drive over the CSX railroad; and

WHEREAS; based on the inspections, the Consulting Engineers prepared a 2016 Bridge Inspection Report; and

WHEREAS; the 2016 Bridge Inspection Report notes that the bridges on Meadowbrook Road over Ingersol Creek, Cranbrooke Drive over Ingersol Creek and West Park Drive over the CSX railroad are in need of preventative maintenance; and

WHEREAS; based on the findings and recommendations of OHM Advisors, the Interim DPS Director recommends that City Council authorize OHM Advisors to submit the LAP Bridge Applications to the Michigan Department of Transportation for the following bridges: Meadowbrook Road over Ingersol Creek, Cranbrooke Drive over Ingersol Creek and West Park Drive over the CSX railroad on the Local Bridge Program for Preventative Maintenance funding; and

WHEREAS; the City of Novi's cost participation amount would be 5% of the total cost; and

WHEREAS; the Mayor and City Clerk are authorized to execute said resolution.

J2.

NOW THEREFORE, IT IS THEREFORE RESOLVED that the City of Novi is actively seeking financial participation to repair the bridges carrying Meadowbrook Road over Ingersol Creek, Cranbrooke Drive over Ingersol Creek and West Park Drive over the CSX railroad and authorizes OHM Advisors to submit the LAP Bridge applications to the Michigan Department of Transportation to include these bridges on the State Local Bridge Program List for Preventative Maintenance, to make application for financial assistance from the State of Michigan and Federal Government and to do those things reasonably necessary or required in order to accomplish the repair of these bridges.

AYES:	
NAYS:	
RESOLUTION DECLARED ADOPTED.	
	Cortney Hanson, City Clerk
CERTIFICA	ATION
I hereby certify that the foregoing is a true and by the City Council of the City of Novi, County regular meeting held this day of meeting was given pursuant to and in full county Michigan, 1976, and that the minutes of sa available to the public as required by said Act	y of Oakland, and State of Michigan, at c , 2017, and that public notice of saic mpliance with Act No. 267, Public Acts of id meeting have been kept and made
	Cortney Hanson, City Clerk City of Novi