



CITY of NOVI CITY COUNCIL

Agenda Item 3
January 6, 2014

SUBJECT: Approval to award a construction contract for the 2014 Bridge Rehabilitation Project to RCL Construction Co., Inc., the low bidder, in the amount of \$115,102.

SUBMITTING DEPARTMENT: Department of Public Services, Engineering Division *BIC*

CITY MANAGER APPROVAL: *[Signature]*

EXPENDITURE REQUIRED	\$ 83,851 (Cranbrooke/Willowbrook Bridges) \$ 31,251 (Brookfarm Park Pedestrian Bridge) \$ 115,102 Total
AMOUNT BUDGETED	\$ 57,970 (Cranbrooke/Willowbrook Bridges) \$ 40,000 (Brookfarm Park Pedestrian Bridge) \$ 97,970 Total
APPROPRIATION REQUIRED	\$ 25,881 (Cranbrooke/Willowbrook Bridges) (To be included in the next budget amendment)
LINE ITEM NUMBER	204-204.00-866.011 (Cranbrooke/Willowbrook Bridges) 204-204.00-974.060 (Brookfarm Park Pedestrian Bridge)

BACKGROUND INFORMATION:

The City is required to perform inspections on each of the four bridges under the City's control (Cranbrooke Drive, Willowbrook Drive, Meadowbrook Road, and West Park Drive) every two years. The most recent bridge inspections were completed in 2012 and the inspection reports recommended minor repairs to each of the bridges. None of the recommended repairs identified in the report are critical to the bridge structures.

Funds were budgeted in FY12-13 to complete repairs recommended in the inspection report for the bridges at Cranbrooke Drive and Willowbrook Drive, along with some additional improvements at the Willowbrook Bridge and the adjacent area that were identified subsequent to the report. The following improvements will be completed as part of the project:

Cranbrooke Bridge

- Replacement of the settled concrete pavement sections on the bridge.
- Joint and crack sealing on the bridge deck on the southbound side.
- Repair of the south abutment delamination.

Willowbrook Bridge

- Stabilization of the slopes at the abutments.
- Repair of the abutment spalls at beam seats.
- Completion of a 5-foot wide sidewalk along the west side of Willowbrook from the south side of the bridge over Ingersol Creek to the north property line of Brookfarm Park.
- Elimination of open curb drainage from the bridge.
- Enclosure of the ditch along Willowbrook and installation of storm sewer as necessary.
- Install a new guardrail and terminal for the southbound approach to the bridge.
- Remove the existing small wooden pedestrian bridge over the wet area at the northeast corner of Brookfarm Park, north of Willowbrook Bridge.

- Regrade/reconstruct the sidewalk in the park to make an ADA compliant connection to the proposed Willowbrook Drive sidewalk.

This project also includes the replacement of the pedestrian bridge over Ingersol Creek between Brookfarm Park and the Village Oaks Elementary School property. During a recent inspection, City staff observed noticeable deterioration of the bridge's structure. With the assistance of OHM, staff determined that the bridge was unsafe and should be closed immediately. The replacement of this pedestrian bridge was then added to this upcoming construction project (see attached November 6, 2013 memo).

The project was originally bid in September 2013 and three bids were received at that time. The bids were higher than the engineer's estimate for the project, so the decision was made to rebid the project during the winter when bid prices tend to be more favorable. Since the original bid, the Brookfarm bridge was added to the project as described above.

Four (4) bids were received and opened on December 17, 2013 following a public bid solicitation period. The lowest bidder is RCL Construction (RCL). RCL's bid is recommended as being in the best interest of the City as it is responsive (i.e. RCL has complied with all requirements of the bidding instructions) and it is the lowest price. (OHM's award recommendation letter including the bid tabulation dated December 20, 2013 is attached.) A summary of the four bids is as follows:

Contractor	Bid Price (including Crew Days)*
RCL Construction Co.	\$134,301.50
C.L. Maurer Construction	\$146,474.90
Fonson Inc.	\$159,116.25
Davis Construction	\$185,123.00

*Crew Days are included to compare bids, but are not included in the award.

The budgeted amount for this project for FY2013-14 is \$97,970 for construction and engineering, of which \$8,200 was awarded for engineering services, \$3,500 was awarded to repackage and rebid the project, \$115,101.50 is now being recommended for award to RCL for construction, and \$27,885.98 is also recommended for award to OHM for construction engineering services (a separate item on this agenda) for total contract awards in the amount of \$154,687.48. A budget amendment request for the additional project fund for the Willowbrook and Cranbrooke is forthcoming.

Construction is scheduled to begin in the spring and completion is anticipated spring or summer. The construction contract calls for substantial completion within 30 days and final completion within 45 days from the issuance of the Notice to Proceed, but will be dependent upon the lead time required for fabrication of the pedestrian bridge.

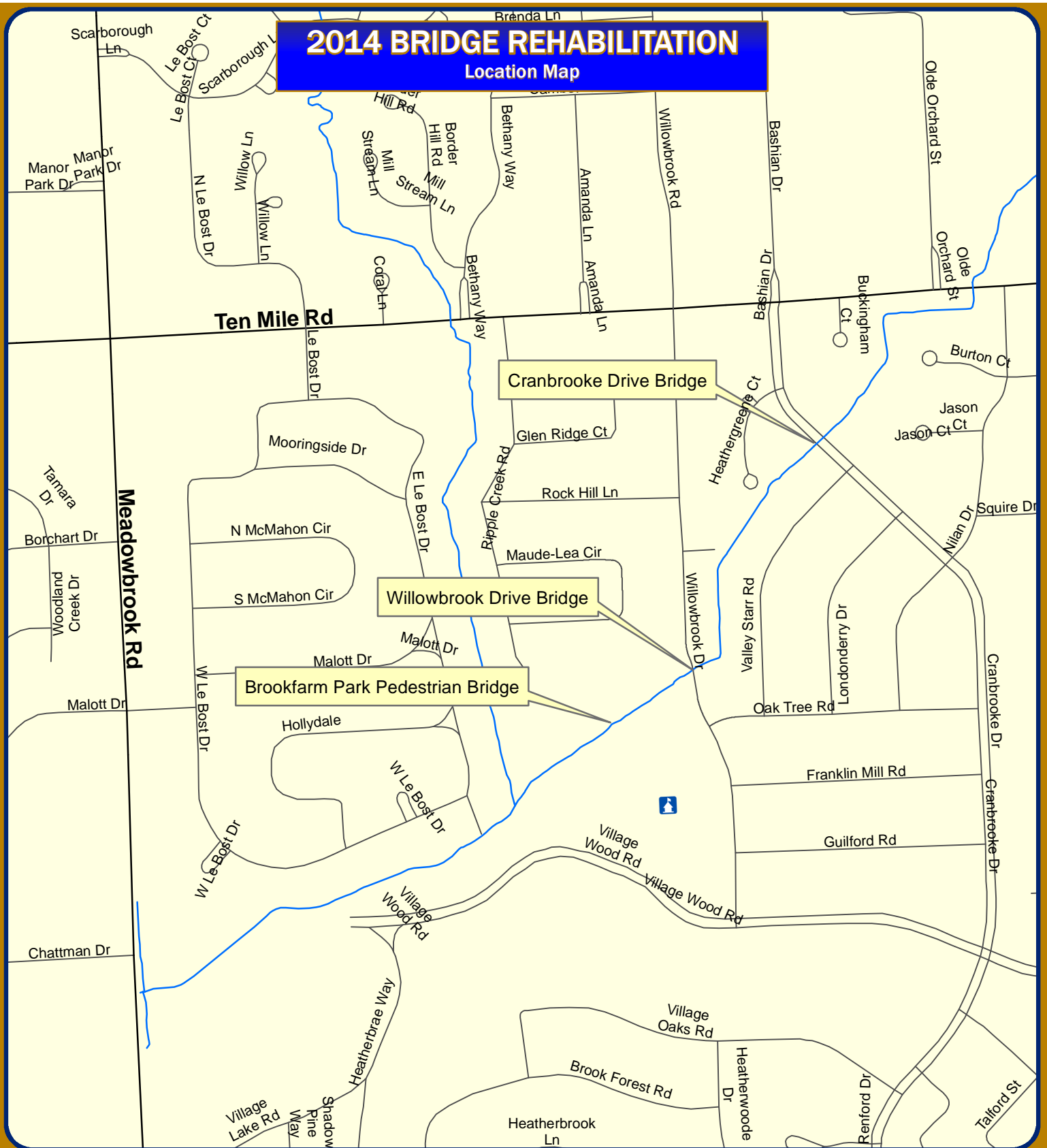
RECOMMENDED ACTION: Approval to award a construction contract for the 2014 Bridge Rehabilitation Project to RCL Construction Co., Inc., the low bidder, in the amount of \$115,102.

	1	2	Y	N
Mayor Gaff				
Mayor Pro Tem Staudt				
Council Member Casey				
Council Member Fischer				

	1	2	Y	N
Council Member Markham				
Council Member Mutch				
Council Member Wrobel				

2014 BRIDGE REHABILITATION

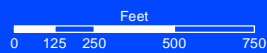
Location Map



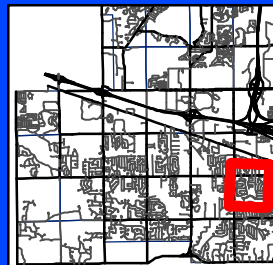
Map Author: Croy
 Date: 12/20/13
 Project: 2014 Bridge Rehabilitation
 Version #: v1.0

MAP INTERPRETATION NOTICE

Map information depicted is not intended to replace or substitute for any official or primary source. This map was intended to meet National Map Accuracy Standards and use the most recent, accurate sources available to the people of the City of Novi. Boundary measurements and area calculations are approximate and should not be construed as survey measurements performed by a licensed Michigan Surveyor as defined in Michigan Public Act 132 of 1970 as amended. Please contact the City GIS Manager to confirm source and accuracy information related to this map.



1 inch = 600 feet



City of Novi

Engineering Division
 Department of Public Services
 26300 Lee BeGole Drive
 Novi, MI 48375
cityofnovi.org



December 20, 2013

City of Novi DPS – Engineering Division
 26300 Lee BeGole Drive
 Novi, MI 48375

Attention: Ben Croy, P.E., Engineer

Regarding: City of Novi – 2014 Bridge Rehabilitation
 Recommendation of Award
 OHM Job # 0163-13-0020

Dear Mr. Croy:

Sealed bids for the 2014 Bridge Rehabilitation were received and publicly read aloud on Tuesday, December 17, 2013. Proposals were received from four (4) bidders. The four (4) bidders and their bid amounts are summarized below and in the attached bid tabulation. The Engineer’s Opinion of Construction Cost for this project was estimated to be \$104,821.00.

Contractor	Amount
RCL Construction Co. Inc.	\$ 134,301.50
C.L. Maurer Construction	\$ 146,474.90
Fonson, Inc.	\$ 159,116.25
Davis Construction Inc.	\$ 185,123.00

The project scope consists of removal and replacement of an existing pedestrian bridge superstructure, concrete patching on existing substructure elements, installing bridge curb to close the open curb drain, storm sewer installation, sidewalk connection, pavement repairs and crack sealing.

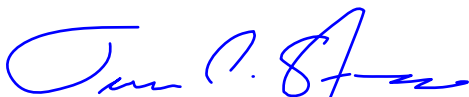
The work to be done under this Contract includes the furnishing of materials, equipment, and labor necessary to complete the proposed work, as well as all necessary restoration in accordance with the specifications.

Certain items in this contract related to the bridge rehabilitation are specialty type work and of small quantity. Items 5, 19, 21, and 28 of Division A fall into this category and as result the low bidder’s unit prices were higher than what we typically see on bridge rehabilitation projects industry wide. The low bidder’s unit prices for items 1, 30 and 32 from Division A also were higher than expected. However these items are heavily dependent on the Contractor’s construction practices and thus can be subject to high variation. We feel even although some prices are higher than expected, the low bidder’s prices seem to be acceptable.

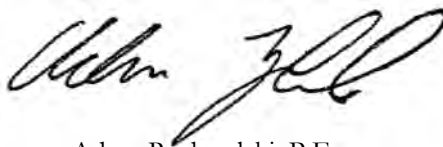
RCL Construction Co. Inc., located in Sanford, Michigan, is the apparent low bidder. They have positive references from the Hymmco LLC, Pro-Build, and Spicer Group. Based on our findings and discussions with City Staff, we recommend award of the 2014 Bridge Rehabilitation project to RCL Construction Co. Inc. in the amount of **\$115,101.50** (\$134,301.50 less \$19,200 for Crew Days), per the unit prices bid for the project.

If you have any questions please do not hesitate to give our office a call at (734) 522-6711.

Sincerely,
ORCHARD, HILTZ & McCLIMENT, INC.



James C. Stevens P.E.
Client Representative



Adam Rychwalski, P.E.
Project Engineer

Enclosures: *Bid Tabulation*

Cc: Brian Coburn, Engineering Manager
File

Division A

Item No.	Description	Estimated Quantity	Unit Price	Amount	Phone: 989-687-7319		Phone: 734-953-9500		Phone: 810-231-5188		Phone: 517-322-3800	
					Unit Price	Amount	Unit Price	Amount	Unit Price	Amount	Unit Price	Amount
1	Mobilization, Max. 10%	1 LS	\$ 4,000.00	\$4,000.00	\$ 9,000.00	\$9,000.00	\$ 2,500.00	\$2,500.00	\$ 8,000.00	\$8,000.00	\$ 12,000.00	\$12,000.00
2	Guardrail, Rem	34 LF	\$ 15.00	\$510.00	\$ 9.00	\$306.00	\$ 11.50	\$391.00	\$ 16.50	\$561.00	\$ 6.00	\$204.00
3	Pavt, Rem	96 SYd	\$ 25.00	\$2,400.00	\$ 40.00	\$3,840.00	\$ 20.00	\$1,920.00	\$ 19.25	\$1,848.00	\$ 20.00	\$1,920.00
4	Sidewalk, Rem	47 SYd	\$ 15.00	\$705.00	\$ 8.00	\$376.00	\$ 10.00	\$470.00	\$ 12.00	\$564.00	\$ 20.00	\$940.00
5	Structures, Rem	1 LS	\$ 500.00	\$500.00	\$ 2,880.00	\$2,880.00	\$ 920.00	\$920.00	\$ 600.00	\$600.00	\$ 2,000.00	\$2,000.00
6	Embankment, CIP	61 CYd	\$ 25.00	\$1,525.00	\$ 36.00	\$2,196.00	\$ 23.00	\$1,403.00	\$ 35.00	\$2,135.00	\$ 17.00	\$1,037.00
7	Erosion Control, Silt Fence	400 LF	\$ 2.50	\$1,000.00	\$ 3.00	\$1,200.00	\$ 4.50	\$1,800.00	\$ 3.60	\$1,440.00	\$ 2.00	\$800.00
8	Erosion Control, Check Dam, Stone	40 LF	\$ 20.00	\$800.00	\$ 29.00	\$1,160.00	\$ 92.00	\$3,680.00	\$ 58.00	\$2,320.00	\$ 25.00	\$1,000.00
9	Aggregate Base, 6 inch	155 SYd	\$ 15.00	\$2,325.00	\$ 9.30	\$1,441.50	\$ 27.00	\$4,185.00	\$ 16.75	\$2,596.25	\$ 12.00	\$1,860.00
10	Culv End Sect, 12 inch	1 Ea	\$ 300.00	\$300.00	\$ 300.00	\$300.00	\$ 430.00	\$430.00	\$ 875.00	\$875.00	\$ 300.00	\$300.00
11	Sewer, CI IV, 12 inch, Tr Det A	105 LF	\$ 45.00	\$4,725.00	\$ 27.00	\$2,835.00	\$ 27.50	\$2,887.50	\$ 44.00	\$4,620.00	\$ 40.00	\$4,200.00
12	Dr Structure Cover, Type G	1 Ea	\$ 400.00	\$400.00	\$ 725.00	\$725.00	\$ 575.00	\$575.00	\$ 715.00	\$715.00	\$ 600.00	\$600.00
13	Dr Structure, 48 inch dia	1 Ea	\$ 1,100.00	\$1,100.00	\$ 2,500.00	\$2,500.00	\$ 975.00	\$975.00	\$ 1,750.00	\$1,750.00	\$ 2,000.00	\$2,000.00
14	Underdrain, Bank, 4 inch	35 LF	\$ 10.00	\$350.00	\$ 6.00	\$210.00	\$ 11.50	\$402.50	\$ 22.00	\$770.00	\$ 10.00	\$350.00
15	HMA Crack Treatment	125 LF	\$ 3.00	\$375.00	\$ 3.00	\$375.00	\$ 9.20	\$1,150.00	\$ 3.00	\$375.00	\$ 10.00	\$1,250.00
16	Conc Pavt, Misc, Nonreinf, 8 inch	96 SYd	\$ 50.00	\$4,800.00	\$ 48.00	\$4,608.00	\$ 59.50	\$5,712.00	\$ 49.50	\$4,752.00	\$ 50.00	\$4,800.00
17	Bridge Curb	100 LF	\$ 45.00	\$4,500.00	\$ 23.00	\$2,300.00	\$ 34.50	\$3,450.00	\$ 30.00	\$3,000.00	\$ 45.00	\$4,500.00
18	Modular Block Retaining Wall	68 SF	\$ 65.00	\$4,420.00	\$ 70.00	\$4,760.00	\$ 92.00	\$6,256.00	\$ 62.25	\$4,233.00	\$ 50.00	\$3,400.00
19	Hand Chipping, Other Than Deck	20 CF	\$ 40.00	\$800.00	\$ 300.00	\$6,000.00	\$ 126.00	\$2,520.00	\$ 575.00	\$11,500.00	\$ 63.00	\$1,260.00
20	Patch, Forming	40 SF	\$ 40.00	\$1,600.00	\$ 19.00	\$760.00	\$ 40.25	\$1,610.00	\$ 125.00	\$5,000.00	\$ 34.00	\$1,360.00
21	Patching Conc, C-L	2 CYd	\$ 300.00	\$600.00	\$ 3,691.00	\$7,382.00	\$ 460.00	\$920.00	\$ 100.00	\$200.00	\$ 350.00	\$700.00
22	Curb and Gutter, Conc, Det F2	86 LF	\$ 35.00	\$3,010.00	\$ 26.00	\$2,236.00	\$ 28.75	\$2,472.50	\$ 24.00	\$2,064.00	\$ 35.00	\$3,010.00
23	Sidewalk, Conc, 4 inch	1110 SF	\$ 4.50	\$4,995.00	\$ 5.00	\$5,550.00	\$ 4.30	\$4,773.00	\$ 2.95	\$3,274.50	\$ 6.50	\$7,215.00
24	Guardrail, Type B	15 LF	\$ 30.00	\$450.00	\$ 65.00	\$975.00	\$ 69.00	\$1,035.00	\$ 150.00	\$2,250.00	\$ 55.00	\$825.00
25	Guardrail Approach Terminal, Type 1B	1 Ea	\$ 1,700.00	\$1,700.00	\$ 800.00	\$800.00	\$ 1,000.00	\$1,000.00	\$ 2,250.00	\$2,250.00	\$ 2,500.00	\$2,500.00
26	Fence, Moving	21 LF	\$ 25.00	\$525.00	\$ 25.00	\$525.00	\$ 23.00	\$483.00	\$ 50.00	\$1,050.00	\$ 23.00	\$483.00
27	Sign, Type II, Erect, Salv	1 Ea	\$ 30.00	\$30.00	\$ 300.00	\$300.00	\$ 285.00	\$285.00	\$ 225.00	\$225.00	\$ 150.00	\$150.00
28	Flexible Slope Paving	67 SYd	\$ 90.00	\$6,030.00	\$ 140.00	\$9,380.00	\$ 170.00	\$11,390.00	\$ 240.00	\$16,080.00	\$ 100.00	\$6,700.00
29	Crack Sealing, Conc Pavt	360 LF	\$ 2.00	\$720.00	\$ 3.00	\$1,080.00	\$ 2.00	\$720.00	\$ 2.50	\$900.00	\$ 7.00	\$2,520.00
30	Restoration	1 LS	\$ 2,000.00	\$2,000.00	\$ 4,050.00	\$4,050.00	\$ 23,500.00	\$23,500.00	\$ 4,250.00	\$4,250.00	\$ 3,000.00	\$3,000.00
31	Minor Traf Devices	1 LS	\$ 2,000.00	\$2,000.00	\$ 3,800.00	\$3,800.00	\$ 1,800.00	\$1,800.00	\$ 2,140.00	\$2,140.00	\$ 36,420.00	\$36,420.00
32	Crew Days	15 Ea	\$ 640.00	\$9,600.00	25.00	\$16,000.00	20.00	\$12,800.00	12.00	\$7,680.00	18.00	\$11,520.00
Subtotal Division A				\$68,795.00		\$99,850.50		\$104,415.50		\$100,017.75		\$120,824.00

Division B

1	Mobilization, Max. 10%	1 LS	\$ 2,000.00	\$2,000.00	\$ 3,100.00	\$3,100.00	\$ 1,000.00	\$1,000.00	\$ 1,350.00	\$1,350.00	\$ 6,400.00	\$6,400.00
2	Pavt, Rem	3 SYd	\$ 25.00	\$75.00	\$ 37.00	\$111.00	\$ 110.00	\$330.00	\$ 47.00	\$141.00	\$ 20.00	\$60.00
3	Sidewalk, Rem	8 SYd	\$ 15.00	\$120.00	\$ 45.00	\$360.00	\$ 70.00	\$560.00	\$ 22.00	\$176.00	\$ 20.00	\$160.00
4	Structures, Rem Portions	1 LS	\$ 2,000.00	\$2,000.00	\$ 1,200.00	\$1,200.00	\$ 950.00	\$950.00	\$ 2,040.00	\$2,040.00	\$ 3,500.00	\$3,500.00
5	Prefabricated Pedestrian Bridge	1 LS	\$ 25,000.00	\$25,000.00	\$ 24,500.00	\$24,500.00	\$ 33,000.00	\$33,000.00	\$ 49,600.00	\$49,600.00	\$ 44,000.00	\$44,000.00
6	Sidewalk, Conc, 4 inch	118 SF	\$ 4.50	\$531.00	\$ 5.00	\$590.00	\$ 4.30	\$507.40	\$ 3.25	\$383.50	\$ 6.50	\$767.00
7	Fence, Moving	44 LF	\$ 25.00	\$1,100.00	\$ 10.00	\$440.00	\$ 23.00	\$1,012.00	\$ 42.00	\$1,848.00	\$ 23.00	\$1,012.00
8	Restoration	1 LS	\$ 2,000.00	\$2,000.00	\$ 950.00	\$950.00	\$ 1,500.00	\$1,500.00	\$ 1,000.00	\$1,000.00	\$ 2,000.00	\$2,000.00
9	Crew Days	5 Ea	\$ 640.00	\$3,200.00	5.00	\$3,200.00	5	\$3,200.00	4	\$2,560.00	10.00	\$6,400.00
Subtotal Division B				\$36,026.00		\$34,451.00		\$42,059.40		\$59,098.50		\$64,299.00
TOTAL BID AMOUNT				\$104,821.00		\$134,301.50		\$146,474.90		\$159,116.25		\$185,123.00

11/7/2013
To: Mayor and City
Council members
FYI. Clay



MEMORANDUM

TO: ROB HAYES, P.E.; DIRECTOR OF PUBLIC SERVICES/CITY ENGINEER
FROM: BRIAN COBURN, P.E.; ENGINEERING MANAGER *BIC*
SUBJECT: BROOKFARM PARK-VILLAGE OAKS SCHOOL PEDESTRIAN BRIDGE
DATE: NOVEMBER 6, 2013

The pedestrian bridge that connects Brookfarm Park to Village Oaks Elementary School was closed by City staff in August 2013 due to safety concerns. During routine maintenance on the bridge, an inspection by City staff revealed that the main beams beneath the bridge were significantly deteriorated due to rust. One of the City's engineering consultants, Orchard, Hiltz & McCliment (OHM), was then dispatched to formally inspect the bridge and to provide some recommendations. OHM agreed with the decision by staff to close the bridge and provided the attached email, which recommends a full replacement of the existing bridge deck and superstructure.

The pedestrian bridge provides a non-motorized connection between Ripple Creek Drive and Village Oaks School and is used by school children in the area to get to school. In order to expedite the replacement of the pedestrian bridge, it was added to the nearby bridge rehabilitation work on Willowbrook Drive and Cranbrooke Drive to be completed as one project, with an expedited schedule to reopen the pedestrian bridge as soon as possible. The last budget amendment included \$40,000 of funding for the design and construction of the replacement pedestrian bridge.

The project will include the replacement of the existing superstructure but will reuse the existing concrete abutments. While the existing bridge was four feet wide, staff is proposing a replacement bridge that is six feet wide to make it more consistent with the City's standard sidewalk width. The increased cost for a wider bridge is approximately \$5,000. The proposed bridge along with the selected options (indicated with red circles) are shown in the attached brochure. The new bridge will be galvanized steel to prevent rusting and to prolong the life of the bridge. Similar to the existing bridge, the new bridge will have wood or decking which is necessary to minimize the weight of the bridge so the existing abutments can be used. (Staff is reviewing the feasibility of using composite decking as an alternate material).

In order to minimize the impact to Brookfarm Park, we are proposing to install the bridge this winter while the ground is frozen. We anticipate advertising the project for bid in December, awarding construction in January 2014 and have the new bridge in place before spring. Once we have a contractor in place, we will be able to provide a more detailed construction schedule. The rest of the bridge rehabilitation work on Willowbrook and Cranbrooke would be completed once the ground thaws in spring and early summer of 2014.

Please let me know if you have any questions in this regard.

cc: Matt Wiktorowski, Field Operations Senior Manager
Jason Mangum, Parks, Recreation and Cultural Services Director

Location Map

Pedestrian Bridge at Brookfarm Park



Map Author: Brian Coburn
 Date: 11/6/13
 Project:
 Version #:

MAP INTERPRETATION NOTICE

Map information depicted is not intended to replace or substitute for any official or primary source. This map was intended to meet National Map Accuracy Standards and use the most recent, accurate sources available to the people of the City of Novi. Boundary measurements and area calculations are approximate and should not be construed as survey measurements performed by a licensed Michigan Surveyor as defined in Michigan Public Act 132 of 1970 as amended. Please contact the City GIS Manager to confirm source and accuracy information related to this map.



City of Novi
 Engineering Division
 Department of Public Services
 26300 Lee BeGole Drive
 Novi, MI 48375
cityofnovi.org



1 inch = 236 feet

Coburn, Brian

From: Stevens, James <james.stevens@ohm-advisors.com>
Sent: Friday, August 23, 2013 3:31 PM
To: Coburn, Brian
Cc: Rychwalski, Adam; O'Rear, Kim
Subject: FW: Brookfarm Park Pedestrian Bridge Estimate
Attachments: Novi Ped Bridge Replacement Estimate.pdf; Galvanized Bridge 1.jpg; Galvanized Bridge 2.jpg

Brian,

Our Structures department have evaluated the pedestrian bridge located in Brookfarm Park in Novi and recommend replacing the bridge for a total estimated cost between \$27,000 and \$32,000. It is our opinion that a rehab of this structure will not be competitive from a time, cost, and longevity perspective.

The bridge is currently 20' long by 4' clear width and a weathering steel finish. The existing condition of the structure is poor. There is severe section loss of the main load carrying members on the bottom chord of the truss as well as the cross members underneath which support the deck and create stability in the structure. The cross members appeared to be filled with a combination of wet sandy material and pack rust. Rehabilitating the structure would require removing the existing deck and associated brackets, likely removing all of the cross members underneath, blast cleaning the entire steel structure, temporary bracing of the remaining members, field welding additional steel to the bottom chord and installing new cross members, painting the entire structure, and installing a new deck system. This process will be difficult to do in place as all of the work will be in the water. To mitigate shock risk the contractor would likely need to remove the bridge anyway to perform the welding. We estimate this work will take 4-8 weeks depending on lead time for steel ordering and shop bending the members. It will be difficult to paint this structure on site this year as we anticipate painting would occur in late October or early November when warm dry conditions can be difficult to achieve. The end result can be good but rehabilitation projects do not to produce the longevity of new construction. We do not anticipate this option will produce significant cost savings to the City over new construction.

For the above reasons we recommend a new bridge of similar construction. The new bridge should be hot-dipped galvanized to extend the service life. Painting is another option but will require more maintenance in the future and will not offer significant savings over the galvanized option. The traditional weathering steel finish is not recommended for this application. The bridge can be replaced in kind for approximately \$27,000 or can be replaced with a 6' wide bridge for approximately \$32,000. Both estimates represent all work anticipated on the bridge and approaches and include a 25% contingency. The intent is to use the existing substructure and install some modifications if the 6' option is selected.

It is our opinion that the bridge replacement work can be completed this fall if funding is available. It will be difficult to perform a rehabilitation yet this year.

I have included a couple of pictures from a project in Dexter that used a hot-dipped galvanized protective coating.

Please feel free to call if there are any questions.

JAMES C. Stevens, PE
ASSOCIATE

OHM Advisors | ARCHITECTS. ENGINEERS. PLANNERS.

T 734.522.6711
F 734.522.6427
D 734.466.4588

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Rail, Deck & Finish Options

Our truss structures offer a wide range of rail, deck and finish options that guarantee a distinctive look for any bridge.

R
A
I
L



Cable



W-Beam



Safety Rail/Wood Rub Rail



Vertical Picket/Pipe Handrail

D
E
C
K



Concrete



Asphalt



Wood



Steel Grate

F
I
N
I
S
H



Weathering Steel



Painted Steel



Painted-Weathering Steel



Galvanized Steel

Tech Support

Options & Support

All of our truss structures are accompanied by extensive technical support. Our experienced sales team and national Project Consultant network are available to provide technical assistance for every aspect of your project, from concept to installation.

Visit our website www.contech-cpi.com to find your local Project Consultant, view additional project photos and Request a Quote for your bridge project.



For Vehicular & Pedestrian Truss Bridges

Design Specifications:

- AISC
- AASHTO Standard Specifications for Highway Bridges
- AASHTO Guide Specifications for Pedestrian Bridges
- AWS D1.1, D1.5

Material & Finishes:

Steel Types Used (50 ksi material):

- A572 Painted (2 Coat and 3 Coat (Zinc Rich Primer) – Any Color)
- A572 Galvanized (35-year Limited Warranty)
- A325 Galvanized or Type 3 Weathering (bolts provided)
- A307 Galvanized anchor bolts are specified (by contractor)

Manufacturing/Installation

Specifications:

- AISC Shop Certification
 - Simple Bridge Certification
 - Major Bridge Certification
 - Sophisticated Paint Endorsement
 - Fracture Critical Endorsement
- AWS Certified Welders



CONTECH® Construction Products offers a full range of pedestrian and vehicular truss styles for your project's needs. As highly skilled solution providers, we are ready to support you in every phase of your project, from concept to installation.



Archway®



Capstone®



Keystone®



Connector®



Link®



Steel Stringer



***Cable-Stayed**



***Expressway®**



***Gateway®**



*These styles are available for pedestrian truss applications only.
Custom styling is available to make your project a reality.



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