



# CITY of NOVI CITY COUNCIL

## Agenda Item D February 25, 2019

**SUBJECT:** Approval to authorize additional civil engineering services to AECOM for construction engineering services associated with the Phase 2 of the Boardwalk Repair Program, in the amount of \$45,947.30.

**SUBMITTING DEPARTMENT:** Department of Public Works, Engineering Division

**CITY MANAGER APPROVAL:** 

<b>EXPENDITURE REQUIRED</b>	<b>\$ 45,947.30</b>
<b>AMOUNT BUDGETED</b>	<b>\$ 506,750</b>
<b>APPROPRIATION REQUIRED</b>	<b>\$ 0</b>
<b>LINE ITEM NUMBER</b>	<b>400-204.00-974.476</b>

### BACKGROUND INFORMATION:

A program to refurbish and restore the City's boardwalk network was implemented in fall of 2018. The boardwalk network was evaluated and categorized for maintenance, repair, or replacement based on condition and usage. The first categorization was to determine which boardwalks could be maintained with in-house Field Operations staff and which boardwalks were considered for a more extensive rehabilitation method and required the expertise of a qualified contractor. This categorization developed a list of fourteen (14) boardwalks that needed special attention from a structural engineering standpoint.

On October 22, 2018, City staff brought to City Council a recommendation to award a contract to L.J. Construction, Inc., in the amount of \$544,847.00. Based on the approved budget at the time, this contract concentrated on the six (6) worst rated boardwalks (Boardwalk No.'s 1, 3, 4, 11, 14 and 17) out of the 14, for immediate repair or replacement (a map of those boardwalk locations is attached).

A seventh boardwalk (Boardwalk No. 20), located on the west side of Beck Road, just south of the Bellagio Subdivision entrance was added to the contract. Monies appropriated to repair Boardwalk No. 20 were obtained from an insurance settlement, when a driver under the influence had struck the boardwalk in March 2018. The City did not acquire these funds in time before bidding the original contract; so, Boardwalk No. 20 was added via Change Order No. 2.

Boardwalk No. 10, located on the west side of Beck Road, along the south property frontage of the Kirkway Place development (which was also on the list of 14), was previously added to the 8 Mile Pathway (Garfield to Napier) contract and contractor (Koala-T Construction). This boardwalk was in such poor condition, that it had been closed for a long period of time. Due to the amount of usage this boardwalk receives, the City decided to immediately issue a change order to another contract in order to accelerate its reopening.

This leaves six boardwalks remaining of the fourteen that require a qualified contractor (Boardwalk No.'s 5, 8, 9, 15, 16 & 33). L.J. Construction, Inc., specializes in boardwalk

construction. In 2016, they very successfully completed Phase 1 of the ITC Trail (Garfield/9 Mile to ITC Community Sports Park). Phase 1 of the boardwalk repair program with L.J. Construction, Inc. has gone extremely well. Not only the quality of workmanship, but also the competitive pricing L.J. Construction, Inc. has to offer.

AECOM, the City's Engineering Consultant, has been performing the construction engineering services in conjunction with the Engineering Division for this project. Additional construction engineering services will be required to complete this work. The construction phase engineering fees are determined using two components: 1) The contract administration fee, using the fee percentage in Exhibit B of the Agreement for Professional Engineering Services for Public Projects; 2) The construction inspection fee, using a cost per inspection (crew) day from Exhibit B of the consultant's agreement, multiplied by the number of days of inspection specified by the contractor.

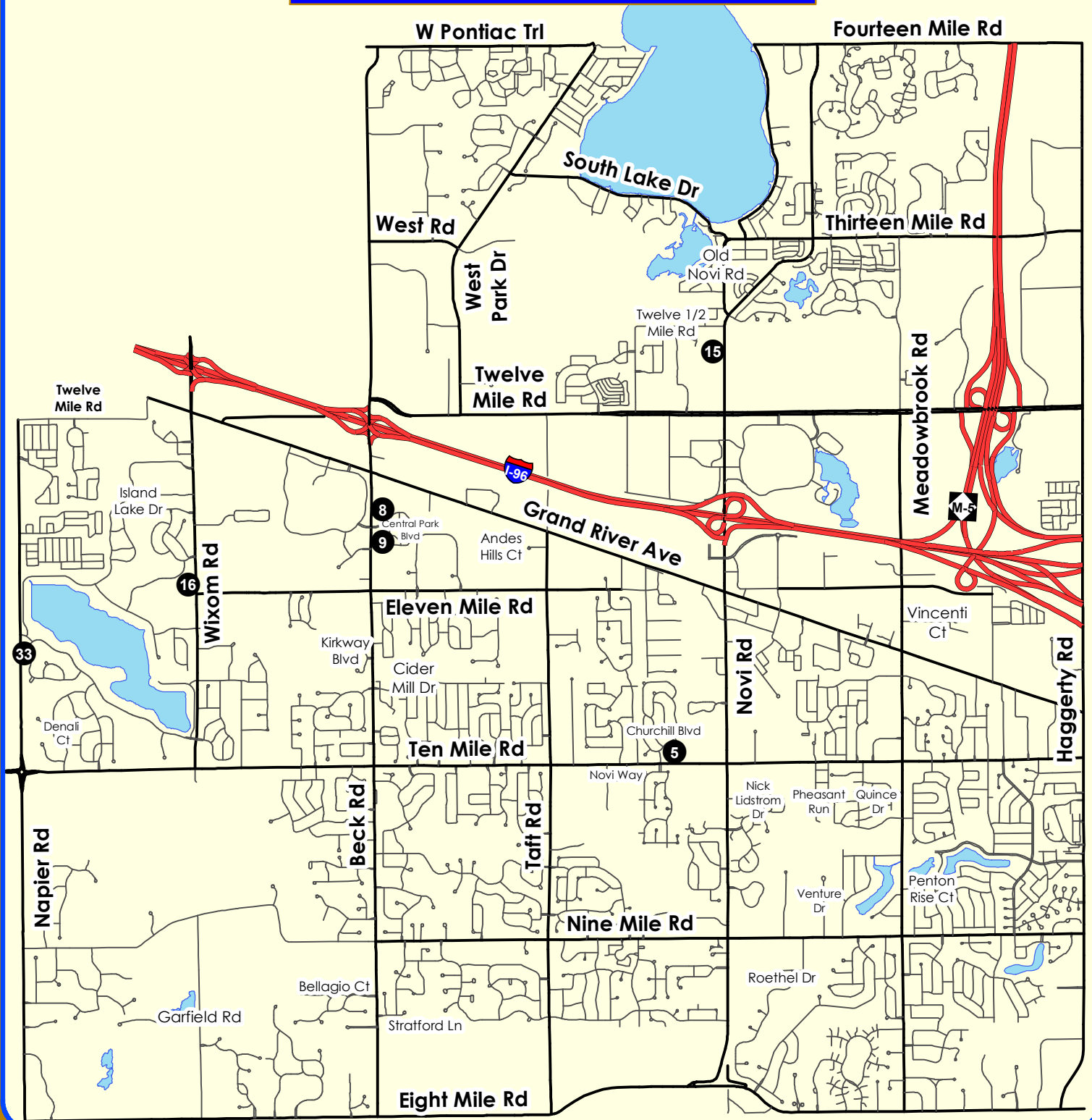
The construction phase engineering fees for this project include a contract administration fee of \$22,147.30 (7.00% of the \$316,390.00 construction cost) and an inspection fee of \$23,800.00 (\$700 per crew day, multiplied by the 34 days required for the additional construction work) for a total fee of \$45,947.30.

Awarding additional work to L.J. Construction, Inc., for this project is proposed elsewhere on this agenda.

**RECOMMENDED ACTION:** Approval to authorize additional civil engineering services to AECOM for construction engineering services associated with the Phase 2 of the Boardwalk Repair Program, in the amount of \$45,947.30.

# 2019 Boardwalk Repairs

## Location Map



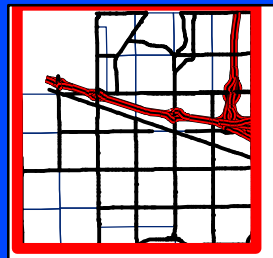
Map Author: Joseph Akers  
 Date: February 14, 2019  
 Project: 2019 Boardwalk Repairs  
 Version #: 1.0

Amended By:  
 Date:  
 Department:

**MAP INTERPRETATION NOTICE**

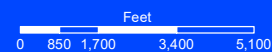
Map information depicted is not intended to replace or substitute for any official or primary source. This map was intended to meet National Map Accuracy Standards and use the most recent, accurate sources available to the people of the City of Novi. Boundary measurements and area calculations are approximate 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.

# Boardwalk Repair Locations



### City of Novi

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

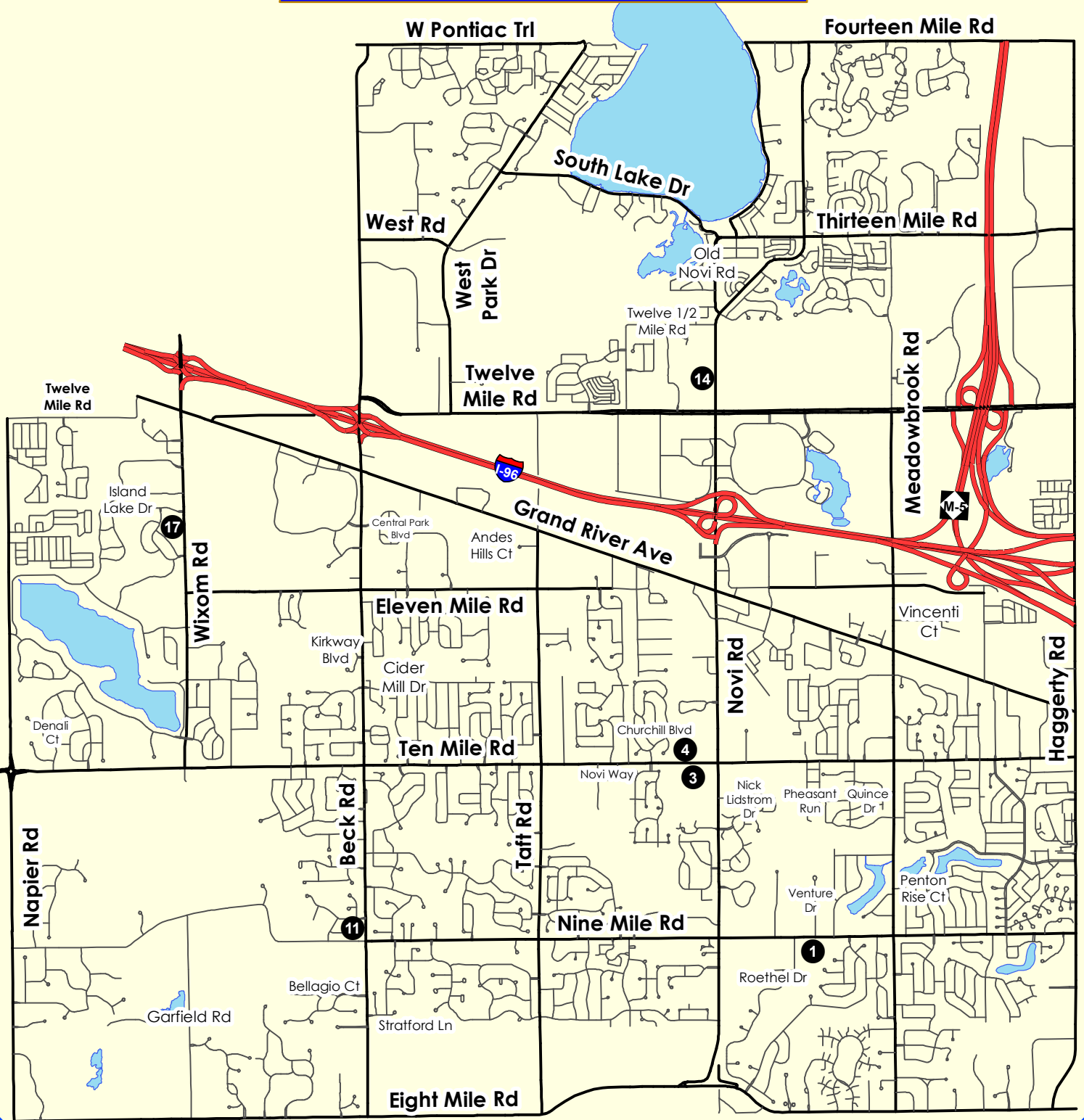


1 inch = 4,190 feet



# 2018 Boardwalk Repairs

## Location Map



Map Author: Joseph Akers  
 Date: October 9, 2018  
 Project: Boardwalks  
 Version #: 1.1

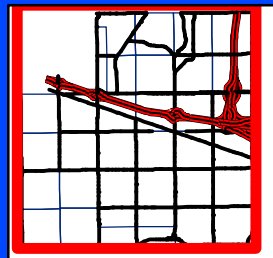
Amended By:  
 Date:  
 Department:

**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.



Boardwalk Repair Locations



### City of Novi

Engineering Division  
 Department of Public Services  
 26300 Lee BeGole Drive  
 Novi, MI 48375  
[cityofnovi.org](http://cityofnovi.org)

Feet

0 850 1,700 3,400 5,100

1 inch = 4,190 feet



## Authorization for Additional Services #1

Date: 2/13/19

Project: **Engineering Services for construction oversight for the 2018 Boardwalk Repair Program.**  
**Purchase Order # 95679**

### Description of Additional Services

The City of Novi is adding 4 additional boardwalks to the program which will be completed after July 1, 2019. This service request adds the construction administration and crew days for the additional work.

### Original scope of work:

*[Provide itemized list of tasks related to scope change, and provide cost associated with each task]*

- Crew Days 61 \* \$700/day = \$42,700.00
- Contract Administration = \$38,139.29

Amount authorized for original scope: \$80,839.29

### Proposed scope of work:

Increased crew days based on the actual amount used due to increased quantities and time it took to complete the project.

- Crew Days = 34 \* \$700 = \$23,800.00
- Contract Administration = \$22,147.30

Proposed budget amount for new scope: \$126,786.59

Based on the revised scope of services, there will be an increase of \$45,947.30 to the amount authorized under the previous scope of services.

### [CONSULTANT]

Requested by:



Sean Kelsch, Vice President

Date: 2/13/19

### CITY OF NOVI

Reviewed by:

Aaron J. Staup, Construction Engineer

Date: \_\_\_\_\_

Approved by:

George D. Melistas, Engineering Senior Manager

Date: \_\_\_\_\_

Approved by:

Sue Morianti, Purchasing Manager

Date: \_\_\_\_\_