



## CITY of NOVI CITY COUNCIL

Agenda Item 1  
March 10, 2014

**SUBJECT:** Approval of special assessment payment to Oakland County of the Caddell Drain Restoration project in the amount of \$26,600; and approval of an additional appropriation in the amount of \$26,600 for this budget line item.

**SUBMITTING DEPARTMENT:** Department of Public Services *PS*

**CITY MANAGER APPROVAL:** *✓*

<b>EXPENDITURE REQUIRED</b>	<b>\$ 26,600</b>
<b>AMOUNT BUDGETED</b>	<b>\$ 0</b>
<b>APPROPRIATION REQUIRED</b>	<b>\$ 26,600</b>
<b>LINE ITEM NUMBER</b>	<b>210-211.00-872.200 (Drain Fund)</b>

### BACKGROUND INFORMATION:

The Caddell Drain is located in the cities of Farmington and Farmington Hills. It was first constructed in several phases in the mid-1980s to provide controlled drainage of several hundred acres of land in Farmington, Farmington Hills and the City of Novi (see attached map depicting the Caddell Drain's drainage district, including the 105 acres in the Village Oaks/Stonehenge area of Section 25 in the City of Novi).

Recent inspections by Oakland County Water Resources Commission (OCWRC) staff indicated that there are several areas of the Drain's open channel where the original gabion baskets (i.e., large wire baskets filled with rock) have failed, causing areas of significant erosion and stream bank failures – all of which are outside of the City of Novi.

A construction project was designed and bid to address these issues, and consists of improvements at two different locations: a portion of the drainage course located in the City of Farmington, and detention basin improvements located in the City of Farmington Hills. The work in Farmington will include removal of failing gabion baskets, installation of grade-control structures and flood benches, channel realignment and new channel creation, sediment bar excavation, creation of flood benches planted with native vegetation, in-stream rock riffles, rock cross vanes, wood vanes, wood habitat structures, plunge pools, stabilization of tile outlets, placement of riprap bank armor, and site restoration work. The work on the detention basin in Farmington Hills will consist of clearing and grubbing, removal and replacement of chain link fencing, basin rip rap, seeding and topsoil, and basin restoration work.

At its January 21, 2014 meeting, the OCWRC Drain Board approved the attached Special Assessment Roll to apportion the costs associated with correcting erosion and stream bank failure issues. The \$700,000 total assessment covers project design, construction, project management, contingencies, a deficit in the project's maintenance fund, and future maintenance costs through 2016. A Rouge Program Office grant in the amount of

\$175,000 will offset a portion of the total project cost. Because only 3.8% of the Drain's contributing area is in the City of Novi, Novi's assessment is \$26,600 (3.8% of \$700,000).

Construction work is slated for completion this spring.

**RECOMMENDED ACTION:** Approval of special assessment payment to Oakland County of the Caddell Drain Restoration project in the amount of \$26,600; and approval of an additional appropriation in the amount of \$26,600 for this budget line item.

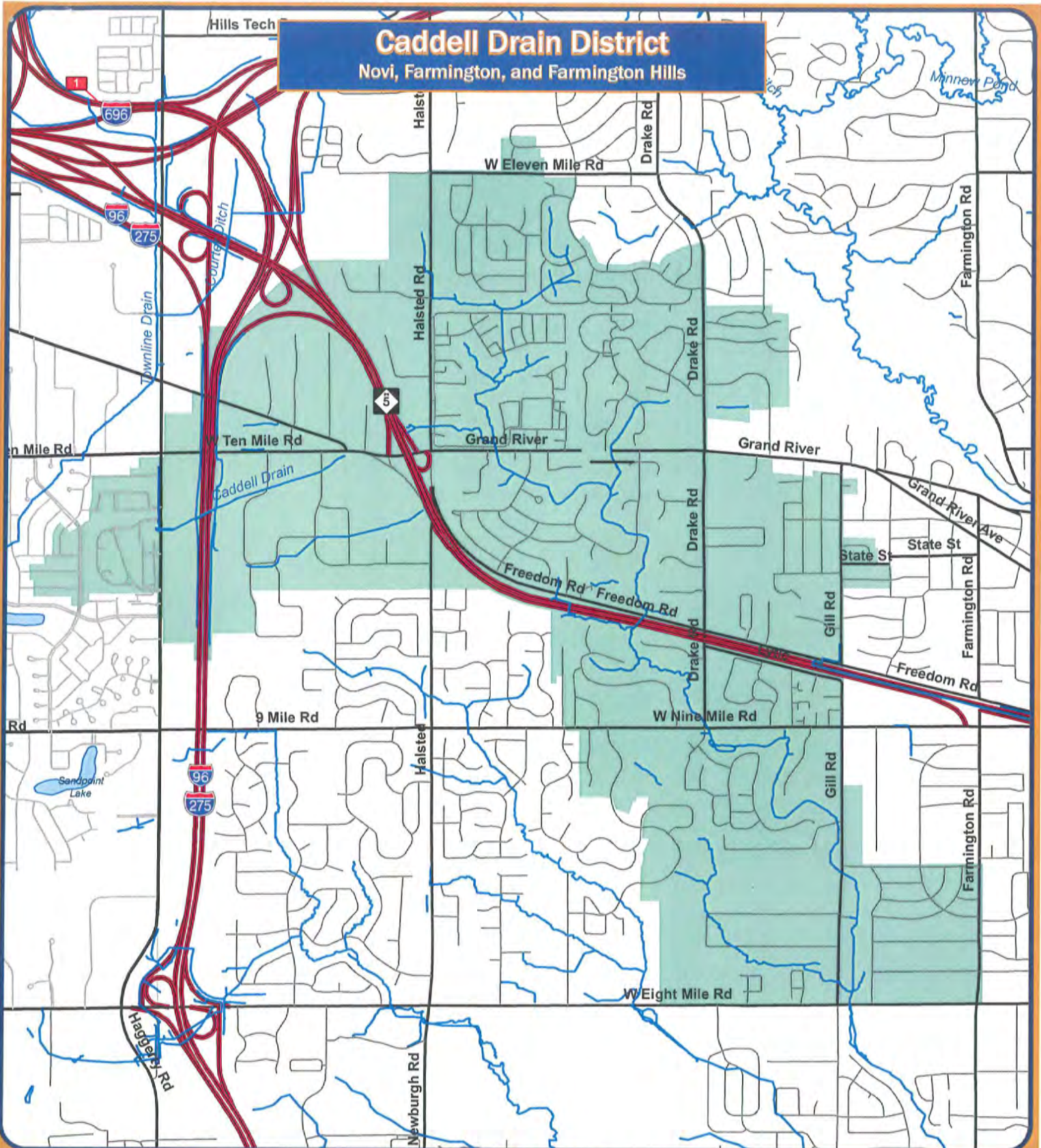
	1	2	Y	N
Mayor Gatt				
Mayor Pro Tem Staudt				
Council Member Casey				
Council Member Fischer				

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



# Caddell Drain District

Novi, Farmington, and Farmington Hills



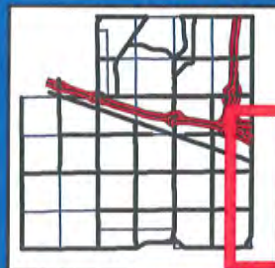
Map Author: Kerl Blough  
 Date: March 3, 2014  
 Project: Drain District  
 Version #: 3.0

**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.

**Map Legend**

- Freeway
- Waterways
- Major Streets
- Lake
- Minor Streets
- Caddell Drain
- Railroad
- City of Novi



**City of Novi**

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



1 inch = 2,500 feet





OAKLAND COUNTY  
 TREASURERS-CASH ACCTG BLDG 12 E  
 1200 N TELEGRAPH RD  
 PO NTIAC MI 48341-0479  
 United States

**INVOICE**

07812

Invoice:  
 Invoice Date:  
 Page:

LISA

DSA0000912  
 1/30/2014  
 1 of 1

Customer No:  
 Payment Terms:  
 Due Date:

DSA00000015  
 NET 30  
 3/1/2014

CITY OF NOVI  
 FINANCE DEPARTMENT  
 45175 W 10 MILE RD  
 NOVI MI 48375-3024

Amount Due: 26,600.00 USD

SPECIAL ASSESSMENT ROLL FOR THE  
 MAINTENANCE OF THE CADDELL DRAIN  
 FISCAL YEAR 2014 - PAYMENT  
 APPROVED AT THE 01/21/14 OCWRC DRAIN BOARD.

For billing questions, please call: 248-858-1541

Original

Line	Activity	Contract	Description	Quantity	Unit Amt	Net Amount
1			Special Assessments	1.00	26,600.00	26,600.00

Total Amount: 26,600.00

Amount Due: 26,600.00

PLEASE INCLUDE YOUR INVOICE NUMBER WHEN SUBMITTING PAYMENT.

SCANNED

FEB 06 2014

CITY OF NOVI  
 FINANCE

**OAKLAND COUNTY WATER RESOURCES COMMISSIONER**  
**MAINTENANCE ASSESSMENT RECOMMENDATION FOR THE**  
**Caddell Drain Restoration Project**

**Estimate of Project Cost  
Based on Bids Received**

<b>CONTRACTED SERVICES - CONSTRUCTION:</b>	
Low Bid - Jackson Dirt Works, Inc.	\$ 447,764.20
<b>CONTRACTED SERVICES - PROJECT DEVELOPMENT:</b>	
Engineering	\$ -
Consulting Engineer	\$ 172,000.00
Geotechnical Exploration	\$ -
Construction Material Testing	\$ -
Subtotal-Contracted Services	\$ 172,000.00
<b>LEGAL &amp; FINANCIAL</b>	
Bond Counsel	\$ 1,000.00
<b>COUNTY SERVICES - PROJECT MANAGEMENT:</b>	
Administration	\$ 2,200.00
Engineering	\$ 41,400.00
Right of Way Purchase Costs	\$ -
Appraisals	\$ -
Land Acquisitions (Easements)	\$ 6,000.00
Right-of-Way	\$ 6,000.00
Construction Inspection	\$ 48,000.00
Surveying	\$ 6,500.00
MDEQ Permit	\$ 2,000.00
Fringe Benefits	\$ 2,800.00
Indirect Costs	\$ 21,535.80
Soil Erosion Review Fee (Inspection Included w/Construction Inspection)	\$ -
Subtotal-County Services	\$ 136,435.80
Contingencies (10% of Construction Cost)	\$ 44,800.00
<b>PROJECT SUBTOTAL:</b>	<b>\$ 802,000.00</b>
Less Rouge Program Office Grant	\$ (175,000.00)
<b>TOTAL ESTIMATED PROJECT COST:</b>	<b>\$ 627,000.00</b>
Maintenance Fund Deficit & Future Maintenance Cost (2014, 2015, 2016)	\$ 73,000.00
<b>TOTAL RECOMMENDED ASSESSMENT</b>	<b>\$ 700,000.00</b>

Prepared by: George P. Nichols Date: 1/15/14  
George P. Nichols, P.E. - Civil Engineer III

Approved by: Glenn R. Appel Date: 1/15/14  
Glenn R. Appel, P.E. - Chief Engineer

**SPECIAL ASSESSMENT ROLL  
FOR THE MAINTENANCE  
OF THE CADDELL DRAIN**

<u>Public Corporation</u>	<u>*Percentage of Apportionment</u>	<u>Total Amount of Assessment</u>
City of Novi	3.80000%	\$ 26,600.00
City of Farmington Hills	60.50000%	\$ 423,500.00
City of Farmington	11.90000%	\$ 83,300.00
State of Michigan	18.20000%	\$ 127,400.00
County of Oakland	5.60000%	\$ 39,200.00
<hr/>		
Total	<b>100.00000%</b>	<b>\$ 700,000.00</b>

\*Apportionment based on Final Order of Apportionment dated 1/26/1983.

Assessment Payment Due Date:


3/1/14

I hereby certify that I have prepared the Special Assessment Roll for the Maintenance of the Caddell Drain for the fiscal year 2014 in accordance with the direction of the Drainage Board and the statutory provisions applicable thereto.



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Jim Nash  
Chairman of the Drainage Board for the Caddell Drain

The foregoing Special Assessment Roll for the maintenance of the Caddell Drain was approved by the Drainage Board on 1/20/14.



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Jim Nash  
Chairman of the Drainage Board for the Caddell Drain