



# CITY of NOVI CITY COUNCIL

**Agenda Item E**  
**June 7, 2010**

**SUBJECT:** Approval to award an amendment to the engineering services contract for construction engineering services related to the 2010 Sanitary Pump Station Upgrade project, to Spalding DeDecker Associates, Inc. (SDA), for a not-to-exceed fee of \$24,146.

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

**CITY MANAGER APPROVAL:** *Clay mp*

<b>EXPENDITURE REQUIRED</b>	<b>\$10,007 – Drakes Bay Pump Station</b> <b>\$14,139 – Park Place Pump Station</b> <b>\$24,146 TOTAL</b>
<b>AMOUNT INCLUDED IN CIP</b>	<b>\$130,000 Drakes Bay Pump Station</b> <b>\$147,000 Park Place Pump Station</b> <b>\$277,000 TOTAL (Engineering &amp; Construction)</b>
<b>LINE ITEM NUMBER</b>	<b>592-592.00-159.808 Drakes Bay Pump Station</b> <b>592-592.00-159.809 Park Place Pump Station</b>

**BACKGROUND INFORMATION:**

The purpose of this project is to upgrade two existing sanitary pump stations: Drakes Bay Pump Station located on Wixom Road at Drakes Bay Drive, and Park Place Pump Station located on Nine Mile at Roberts Road. The locations are shown on the attached map. This project was recommended by the second phase of the Capacity Management Operations and Maintenance (CMOM) Study completed in 2006 and includes the installation of an emergency back up generator at each site, along with several upgrades to each site including safety improvements and select replacement of equipment and controls. SDA was awarded the design engineering for this project at the January 4, 2010 City Council meeting.

The construction phase engineering fees are determined using two components: 1) the contract administration fee, which is determined using the fee percentage in Exhibit B of the Agreement For Professional Engineering Services for Public Projects, and 2) the construction inspection fee determined using a cost per inspection (crew) day from Exhibit B of the consultant's agreement that is then multiplied by the number of days of inspection specified by the contractor. The construction phase fees for this project include a contract administration fee of \$11,846 (7.2% of \$164,519 construction bid) and an inspection fee of \$12,300 (\$615 per crew day, multiplied by the 20 days provided in the contractor's bid) for a total not-to-exceed fee of \$24,146.

The construction contract award is also being considered elsewhere on this agenda. Construction is scheduled in August 2010 (after the equipment which has long lead times has been delivered to the site) and completion is anticipated in September 2010.

**RECOMMENDED ACTION:** Approval to award an amendment to the engineering services contract for construction engineering services related to the 2010 Sanitary Pump Station Upgrade project, to Spalding DeDecker Associates, Inc. (SDA), for a not-to-exceed fee of \$24,146.

	1	2	Y	N
Mayor Landry				
Mayor Pro Tem Gatt				
Council Member Crawford				
Council Member Fischer				

	1	2	Y	N
Council Member Margolis				
Council Member Mutch				
Council Member Staudt				



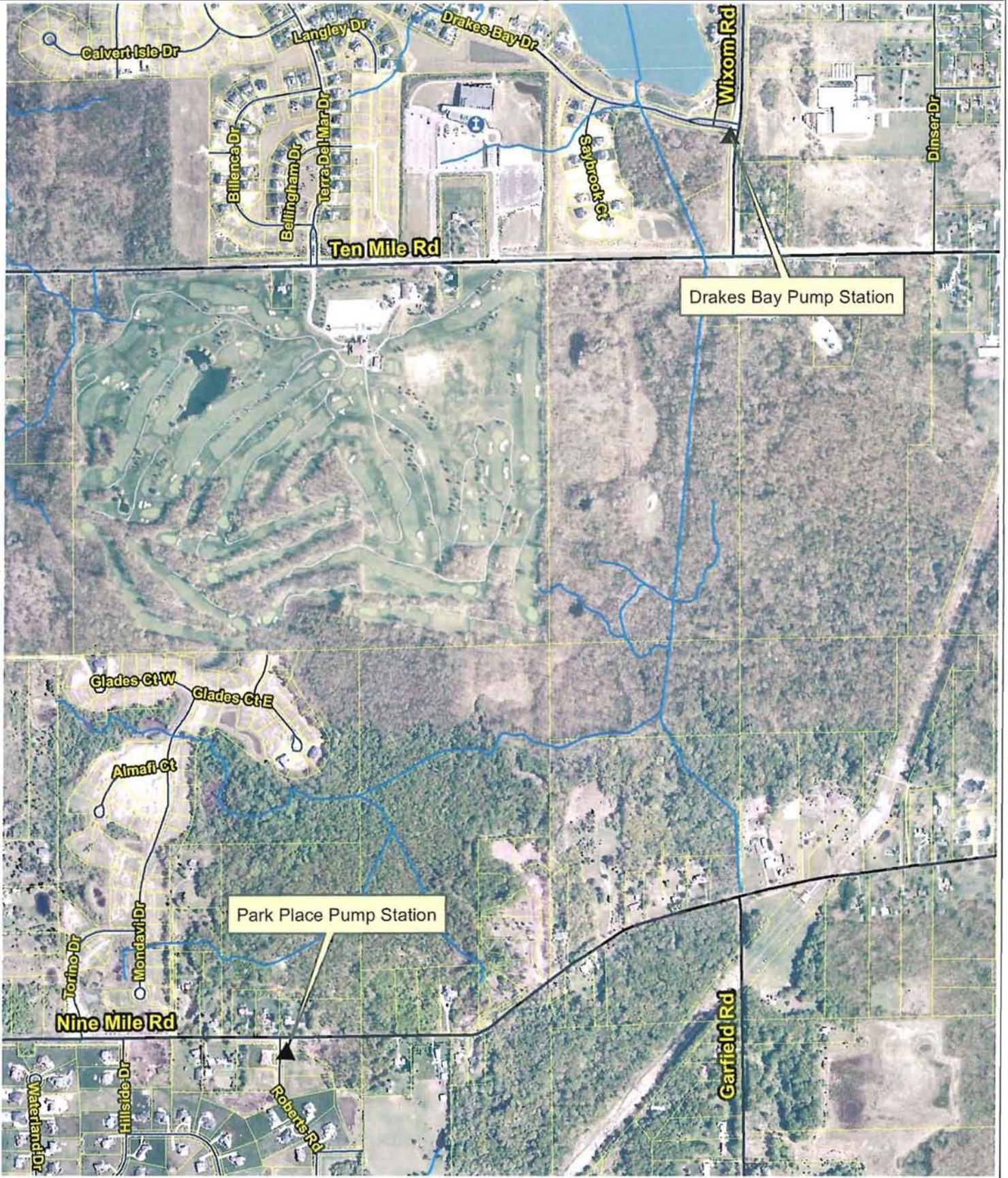
**MAP INTERPRETATION NOTICE**

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 or 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



## 2010 SANITARY PUMP STATION UPGRADES





**FIRST AMENDMENT TO THE  
SUPPLEMENTAL PROFESSIONAL ENGINEERING SERVICES AGREEMENT**

**2010 SANITARY PUMP STATION UPGRADES**

First Amended Agreement between the City of Novi, 45175 W. Ten Mile Road, Novi, MI 48375-3024, hereafter, "City," and Spalding DeDecker Associates, Inc., whose address is 905 South Boulevard East, Rochester Hills, MI 48307, hereafter, "Consultant," relating to modifications of the fee basis for engineering services. The following sections of the Supplemental Professional Engineering Services Agreement, as made and entered into on January 4, 2010 shall be amended as follows:

**Section 2. Payment for Professional Engineering Services,** The following Paragraphs shall be amended as follows:

1. Basic Fee.

a. *Unchanged*

b. Delete I.b. in its entirety and replace with the following language:

Construction Phase Services: The Consultant shall complete the construction phase services as described herein according to the fee schedule as described below:

i. Contract Administration: The Consultant shall complete Contract Administration services for a lump sum fee of \$11,952, which is 7.2% of the awarded construction cost (\$166,000) as indicated on the Design and Construction Engineering Fee Curve, attached. Construction Inspection: The Consultant shall complete Construction Inspection services for \$615 per crew day as described in the request for proposals. "Crew days" shall be defined by the construction contract documents as an 8 hour day. Crew days shall be billed in 4 hour increments rounded to the next half day, therefore a 10 hour day shall be 1.5 crew days, a 3 hour day is 0.5 crew days, a 6 hour day shall be 1.0 crew days. The minimum crew day charged for a no-show by the contractor shall be 2 hours (0.25 crew days) which is reflective of the actual cost to the Consultant for traveling to the site and traveling back to the office. There will be no payment to the consultant for extra crew days that were not charged to the contractor. The Consultant acknowledges that intent of using crew days for inspection services is to provide a method for the consultant to recoup costs associated with slow progress by the contractor.

2. *Unchanged*

Except as specifically set forth in this First Amendment, the Supplemental Professional Engineering Services Agreement remains in full force and effect.

WITNESSES

Spalding DeDecker Associates, Inc.

Maria Sedki  
Maria Sedki

Nadette B. Livingston  
NADETTE B. LIVINGSTON

James L. Van Tiflin  
By: James L. Van Tiflin, P.E.  
Its: Project Manager

The foregoing Agreement was acknowledged before me this 28 day of May,  
2018, by James L. Van Tiflin on behalf  
Spalding DeDecker Associates, Inc.

Robbie A. Spive  
Notary Public  
Macomb County, Michigan  
My Commission Expires: 9/7/14

WITNESSES

CITY OF NOVI

\_\_\_\_\_  
\_\_\_\_\_

By: \_\_\_\_\_  
Its: \_\_\_\_\_



The foregoing \_\_\_\_\_ was acknowledged before me this \_\_\_\_\_ day of \_\_\_\_\_,  
20\_\_\_\_, by \_\_\_\_\_ on behalf of the City of Novi.

\_\_\_\_\_  
Notary Public  
Oakland County, Michigan  
My Commission Expires: \_\_\_\_\_

**EXHIBIT B  
ENGINEERING FEES BY CONSTRUCTION VALUE AND TYPE OF PROJECT**

COST OF CONSTRUCTION From To		ROAD CONSTRUCTION			ROAD REHABILITATION			SIDEWALKS & PATHWAYS		
		Design Phase (% Construction)	Contract Admin (% Construction)	Inspection Fees (cost per crew day)	Design Phase (% Construction)	Contract Admin (% Construction)	Inspection Fees (cost per crew day)	Design Phase (% Construction)	Contract Admin (% Construction)	Inspection Fees (cost per crew day)
\$ -	\$ 50,000	11.50%	8.00%	\$615.00	10.00%	6.00%	\$615.00	13.00%	8.00%	\$615.00
\$ 50,001	\$ 75,000	11.00%	7.50%	\$615.00	9.50%	6.00%	\$615.00	12.50%	7.50%	\$615.00
\$ 75,001	\$ 100,000	10.75%	7.50%	\$615.00	9.25%	6.00%	\$615.00	12.00%	7.50%	\$615.00
\$ 100,001	\$ 125,000	10.30%	7.00%	\$615.00	8.80%	5.50%	\$615.00	11.70%	7.00%	\$615.00
\$ 125,001	\$ 150,000	10.15%	7.00%	\$615.00	8.65%	5.50%	\$615.00	11.20%	7.00%	\$615.00
\$ 150,001	\$ 200,000	9.75%	7.00%	\$615.00	8.25%	5.50%	\$615.00	10.70%	7.00%	\$615.00
\$ 200,001	\$ 300,000	9.30%	7.00%	\$615.00	7.80%	5.00%	\$615.00	10.00%	6.50%	\$615.00
\$ 300,001	\$ 400,000	8.90%	7.00%	\$615.00	7.40%	5.00%	\$615.00	9.40%	6.50%	\$615.00
\$ 400,001	\$ 500,000	8.50%	6.50%	\$615.00	7.00%	4.50%	\$615.00	8.90%	6.50%	\$615.00
\$ 500,001	\$ 750,000	7.75%	6.40%	\$615.00	6.25%	4.00%	\$615.00	8.20%	6.00%	\$615.00
\$ 750,001	\$ 1,000,000	7.10%	6.00%	\$615.00	5.60%	3.25%	\$615.00	7.90%	5.50%	\$615.00
\$ 1,000,001	\$ 2,000,000	6.35%	5.30%	\$615.00	4.85%	2.50%	\$615.00	7.50%	5.00%	\$615.00
\$ 2,000,001	\$ 3,000,000	6.00%	4.50%	\$615.00	4.50%	2.25%	\$615.00	7.10%	4.50%	\$615.00
\$ 3,000,001	\$ 5,000,000	5.78%	4.10%	\$615.00	4.28%	2.00%	\$615.00	6.90%	4.00%	\$615.00
\$ 5,000,001	\$ 7,500,000	5.60%	3.80%	\$615.00	4.10%	2.00%	\$615.00	6.70%	3.50%	\$615.00

COST OF CONSTRUCTION From To		WATER MAIN CONSTRUCTION			SANITARY/STORM SEWER CONSTRUCTION			SANITARY LIFT STATION UPGRADES		
		Design Phase (% Construction)	Contract Admin (% Construction)	Inspection Fees (cost per crew day)	Design Phase (% Construction)	Contract Admin (% Construction)	Inspection Fees (cost per crew day)	Design Phase (% Construction)	Contract Admin (% Construction)	Inspection Fees (cost per crew day)
\$ -	\$ 50,000	11.00%	8.00%	\$615.00	11.50%	8.00%	\$615.00	20.00%	9.00%	\$615.00
\$ 50,001	\$ 75,000	10.50%	7.50%	\$615.00	11.00%	7.50%	\$615.00	17.00%	8.45%	\$615.00
\$ 75,001	\$ 100,000	10.00%	7.50%	\$615.00	10.50%	7.50%	\$615.00	14.75%	8.10%	\$615.00
\$ 100,001	\$ 125,000	9.50%	7.00%	\$615.00	10.50%	7.00%	\$615.00	12.80%	7.50%	\$615.00
\$ 125,001	\$ 150,000	9.00%	7.00%	\$615.00	10.00%	7.00%	\$615.00	11.40%	7.30%	\$615.00
\$ 150,001	\$ 200,000	8.40%	7.00%	\$615.00	9.50%	7.00%	\$615.00	10.50%	7.20%	\$615.00
\$ 200,001	\$ 300,000	8.00%	6.50%	\$615.00	9.50%	6.50%	\$615.00	9.80%	6.85%	\$615.00
\$ 300,001	\$ 400,000	7.40%	6.50%	\$615.00	9.50%	6.50%	\$615.00	9.20%	6.75%	\$615.00
\$ 400,001	\$ 500,000	7.25%	6.50%	\$615.00	9.00%	6.50%	\$615.00	8.70%	6.55%	\$615.00
\$ 500,001	\$ 750,000	6.90%	6.00%	\$615.00	9.00%	6.00%	\$615.00	8.10%	6.20%	\$615.00
\$ 750,001	\$ 1,000,000	6.50%	5.50%	\$615.00	8.50%	5.50%	\$615.00	7.80%	5.80%	\$615.00
\$ 1,000,001	\$ 2,000,000	6.30%	5.00%	\$615.00	8.00%	5.00%	\$615.00	7.30%	5.15%	\$615.00
\$ 2,000,001	\$ 3,000,000	6.10%	4.50%	\$615.00	7.50%	4.50%	\$615.00	6.90%	4.50%	\$615.00
\$ 3,000,001	\$ 5,000,000	6.00%	4.00%	\$615.00	7.00%	4.00%	\$615.00	6.70%	4.05%	\$615.00
\$ 5,000,001	\$ 7,500,000	5.90%	3.50%	\$615.00	6.50%	3.50%	\$615.00	6.50%	3.65%	\$615.00

COST OF CONSTRUCTION From To		DETENTION BASIN RETROFIT			TRAFFIC SIGNALS		
		Design Phase (% Construction)	Contract Admin (% Construction)	Inspection Fees (cost per crew day)	Design Phase (% Construction)	Contract Admin (% Construction)	Inspection Fees (cost per crew day)
\$ -	\$ 50,000	14.00%	8.00%	\$615.00	14.00%	6.00%	\$615.00
\$ 50,001	\$ 75,000	13.25%	7.50%	\$615.00	12.35%	5.80%	\$615.00
\$ 75,001	\$ 100,000	12.75%	7.00%	\$615.00	11.00%	5.60%	\$615.00
\$ 100,001	\$ 125,000	11.85%	6.50%	\$615.00	9.75%	5.40%	\$615.00
\$ 125,001	\$ 150,000	11.35%	6.50%	\$615.00	8.75%	5.30%	\$615.00
\$ 150,001	\$ 200,000	10.85%	6.50%	\$615.00	7.70%	5.10%	\$615.00
\$ 200,001	\$ 300,000	10.25%	6.00%	\$615.00	6.98%	5.00%	\$615.00
\$ 300,001	\$ 400,000	9.70%	6.00%	\$615.00	6.30%	4.80%	\$615.00
\$ 400,001	\$ 500,000	9.20%	6.00%	\$615.00	6.00%	4.70%	\$615.00
\$ 500,001	\$ 750,000	8.60%	5.50%	\$615.00	5.50%	4.50%	\$615.00
\$ 750,001	\$ 1,000,000	8.20%	5.50%	\$615.00	4.75%	4.40%	\$615.00
\$ 1,000,001	\$ 2,000,000	7.70%	5.00%	\$615.00	4.25%	4.20%	\$615.00
\$ 2,000,001	\$ 3,000,000	7.20%	4.50%	\$615.00	4.00%	4.10%	\$615.00
\$ 3,000,001	\$ 5,000,000	6.80%	4.10%	\$615.00	3.75%	3.90%	\$615.00
\$ 5,000,001	\$ 7,500,000	6.40%	3.80%	\$615.00	3.50%	3.80%	\$615.00

**Notes:**

1. Design fees are determined by multiplying the construction cost estimate by the % fee shown in the above tables.
2. Contract Administration fees are determined by multiplying the contractor's bid by the % fee shown in the above tables.
3. Inspection fees are determined by multiplying the number of crew days provided by the contractor in the bid by the cost per crew day as defined above.