



CITY of NOVI CITY COUNCIL

Agenda Item G
January 22, 2008

SUBJECT: Approval of the final balancing change order and final payment to Man-Con Michigan, Inc. for the Country Place and Stonehenge Pump Station upgrade project in the amount of \$49,913.69.

SUBMITTING DEPARTMENT: Engineering *R24*

CITY MANAGER APPROVAL: *[Signature]*

BACKGROUND INFORMATION:

The City's consulting engineer for this project (Fishbeck, Thompson, Carr & Huber) administered the construction contract for upgrading two sanitary sewage lift stations located at the Country Place and Stonehenge condominium sites. Fishbeck reports that the construct contract with Man Con Michigan, Inc. has been completed and is now ready for final payment to Man Con. Accordingly, Fishbeck has executed and submitted the attached documents verifying the final contract payment amount that is due to the construction contractor (Fishbeck's Final Pay Estimate No. 6 and Balancing Change Order No. 2, attached).

The work performed by the contractor has been in substantial compliance with the plans and specifications, and final payment in the amount of \$49,913.69 is appropriate. In addition, the City Attorney has reviewed supporting documentation and found it to be in an acceptable form. The original contract was approved at the July 24, 2006 City Council meeting in the amount of \$576,000.00. The final payment brings the total in construction expenditures on this project to \$521,946.00.

The primary rehabilitation work completed at each site included:

- Modernizing each station by replacing the existing drywell pumps with submersible pumps.
- Replacing corroded and outdated appurtenances and controls.
- Installing emergency bypass connections.
- Adding uninterruptible power supplies (permanent generators powered by natural gas for noise attenuation).

RECOMMENDED ACTION: Approval of the final balancing change order and final payment to Man-Con Michigan, Inc. for the Country Place and Stonehenge Pump Station upgrade project in the amount of \$49,913.69.

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

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



Country Place Lift Station



Stonehenge Lift Station

APPLICATION AND RECOMMENDATION FOR PAYMENT
PAGE 1 OF 2

TO City of Novi FROM (Contractor): Man Con Michigan, Inc.
 In Care of Fishback, Thompson, Carr & Huber, Inc. (FTC&H) 39255 Country Club Drive, Suite B-25 Farmington Hills, MI 48331
 Application No: 6 Project: Country Place and Stonehenge WWPS Modifications
 Period From: 9/21/2007 Project Number: G05902CJ
 To: 11/29/2007

APPLICATION FOR PAYMENT:

Application for Payment is made, as shown below, in connection with the Contract Schedule of Values sheet is attached.

	Country Place WWPS	Stonehenge WWPS	Total
1 Original Contract Amount	\$287,000.00	\$289,000.00	\$576,000.00
2 Net change by Change Orders	\$ (27,850.53)	(\$26,402.51)	-\$54,053.04
3 Current Contract Price (1 plus 2)	\$259,149.47	\$262,597.49	\$521,946.96
4 Total Completed and Stored to Date (Column G)	\$259,149.47	\$262,597.49	\$521,946.96
5 Retainage (Per Agreement)			
Total Retainage		5% of Contract:	\$28,847.55
6 Total Completed and Stored to Date Less Retainage (4 minus 5)			\$521,946.96
7 Less Previous Payments			\$472,033.27
8 Due This Application (6 minus 7)			\$49,913.69
		% of Original	90.6%
		Percentage of Contract Completed:	100%

OK
 R.T.
 12/7/07

CHANGE ORDER SUMMARY:

Change Orders Approved by Owner	ADDITIONS	DEDUCTIONS
Change Order No. 1	\$ 2,827.00	
Change Order No. 2		\$ (56,680.04)
Net Change by Change Orders	\$2,827.00	(\$56,680.04)

CONTRACTOR'S CERTIFICATION:

Undersigned Contractor certifies that (1) all previous progress payments received from Owner on account of Work done under the Contract referred to above have been applied on account to discharge Contractor's legitimate obligations incurred in connection with Work covered by prior Applications for Payment numbered 1 through 31 inclusive, and (2) title of all Work, materials and equipment incorporated in said Work or otherwise listed in or covered by this Application for Payment will pass to Owner at time of payment free and clear of all Liens, security interests and encumbrances (except such as covered by a Bond acceptable to Owner indemnifying Owner against any such Lien, security interest or encumbrance), and (3) all Work covered by this Application for Payment is in accordance with the Contract Documents and not defective.

Dated 11-30-07

By [Signature]
 Man Con Michigan, Inc.
 Contractor
 Michael Mancini, Project Manager
 Name and Title of Signatory

ENGINEER'S RECOMMENDATION:

To: City of Novi, Michigan

In accordance with the Contract, the undersigned recommends payment to Contractor.

AMOUNT RECOMMENDED:

(Attach explanation if amount recommended differs from the amount applied for.)

\$49,913.69

ENGINEER: Fishback, Thompson, Carr & Huber, Inc.

Dated 11/30/07

By [Signature]
 Karen E. Carmago, Project Engineer
 Name and Title of Signatory

This Recommendation is not negotiable. The AMOUNT RECOMMENDED is payable only to Contractor named herein. Issuance, payment and acceptance of payment are without prejudice to any rights of Owner or Contractor under this Contract.

APPLICATION AND RECOMMENDATION FOR PAYMENT
PAGE 2 OF 2

Schedule of Values Country Place WWPS Modification

ITEM NO.	DESCRIPTION OF WORK	SCHEDULED VALUES	WORK COMPLETED			TOTAL COMPLETED AND STORED TO DATE (D+E+F)	% (G/C)	BALANCE TO FINISH (C-G)
			Previous Applications	This Application				
				Work in Place	Stored Materials (not in D or E)			
General:								
1	Mobilization	\$3,000.00	\$ 3,000.00			\$ 3,000.00	100%	\$0.00
2	Soil Erosion	\$500.00	\$ 500.00			\$ 500.00	100%	\$0.00
3	Demolition / Clearing	\$13,000.00	\$ 13,000.00			\$ 13,000.00	100%	\$0.00
4	By Pass Pumping	\$800.00	\$ 800.00			\$ 800.00	100%	\$0.00
5	Site Video / Photos	\$700.00	\$ 700.00			\$ 700.00	100%	\$0.00
6	Force Mains	\$3,000.00	\$ 3,000.00			\$ 3,000.00	100%	\$0.00
7	Valve Chamber	\$90,000.00	\$ 90,000.00			\$ 90,000.00	100%	\$0.00
8	Sanitary Sewer	\$6,000.00	\$ 6,000.00			\$ 6,000.00	100%	\$0.00
9	Restoration	\$8,000.00	\$ 5,000.00	\$ 3,000.00		\$ 8,000.00	100%	\$0.00
10	Wet Well Work / Pumps / Piping	\$76,750.00	\$ 76,750.00			\$ 76,750.00	100%	\$0.00
11	Start-Up (Man Con Michigan, Inc)	\$2,000.00	\$ 2,000.00			\$ 2,000.00	100%	\$0.00
	Allowances:		\$ -					
12	Wet Well Crack Repair	\$2,500.00	\$ -			\$ -	0%	\$0.00
13	Telephone Service	\$2,000.00	\$ -	\$ 189.08		\$ 189.08	9%	\$0.00
14	Electrical Service	\$20,000.00	\$ -			\$ -	0%	\$0.00
15	Natural Gas Line / Meter	\$10,000.00	\$ 1,986.39			\$ 1,986.39	20%	\$0.00
16	Independent Laboratory Testing	\$4,000.00	\$ -			\$ -	0%	\$0.00
	Electrical Work:		\$ -					
17	Generator Pad / Controls Pad	\$1,800.00	\$ 1,800.00			\$ 1,800.00	100%	\$0.00
18	Start Up	\$4,000.00	\$ 4,000.00			\$ 4,000.00	100%	\$0.00
19	Conduit & Fittings – Labor	\$4,100.00	\$ 4,100.00			\$ 4,100.00	100%	\$0.00
20	Conduit & Fittings – Material	\$3,150.00	\$ 3,150.00			\$ 3,150.00	100%	\$0.00
21	Wire – Labor	\$2,000.00	\$ 2,000.00			\$ 2,000.00	100%	\$0.00
22	Wire – Material	\$1,400.00	\$ 1,400.00			\$ 1,400.00	100%	\$0.00
23	Distribution Equipment – Labor	\$2,750.00	\$ 2,750.00			\$ 2,750.00	100%	\$0.00
24	Distribution Equipment – Material	\$1,400.00	\$ 1,400.00			\$ 1,400.00	100%	\$0.00
25	Instrumentation – Labor	\$1,150.00	\$ 1,150.00			\$ 1,150.00	100%	\$0.00
26	Instrumentation – Material	\$600.00	\$ 600.00			\$ 600.00	100%	\$0.00
27	Excavation – Labor	\$2,500.00	\$ 2,500.00			\$ 2,500.00	100%	\$0.00
28	Generators – Labor	\$1,550.00	\$ 1,550.00			\$ 1,550.00	100%	\$0.00
29	Generators – Material	\$13,250.00	\$ 13,250.00			\$ 13,250.00	100%	\$0.00
30	Demolition – Labor	\$1,100.00	\$ 1,100.00			\$ 1,100.00	100%	\$0.00
31	Start-Up (Electrician)	\$4,000.00	\$ 4,000.00			\$ 4,000.00	100%	\$0.00
	EXTRA ITEMS							
CM #1	Country Place Wet Well Saw Cutting		\$ 1,802.00			\$ 1,802.00	100%	\$0.00
CM #1	OCDC Sewer Permit, Normandy Hills		\$ 250.00			\$ 250.00	100%	\$0.00
CM #1	OCDC Sewer Inspection Permit		\$ 775.00			\$ 775.00	100%	\$0.00
CM#3	Irrigation Repairs		\$ -	\$ 825.00		\$ 825.00	100%	\$0.00
CM#3	Asphalt Pathway Repair, Hand Patching		\$ -	\$ 1,680.00		\$ 1,680.00	100%	\$0.00
CM#3	Electrical Credit		\$ -	\$ (435.00)		\$ (435.00)	100%	\$0.00
CM#3	Bumpers	\$288.00	\$ -	\$ 1,152.00		\$ 1,152.00	100%	\$0.00
CM#3	Tree, Arborvitae, 4 feet	\$187.50	\$ -	\$ 2,625.00		\$ 2,625.00	100%	\$0.00
	Total	\$287,475.50	\$250,313.39	\$9,036.08	\$0.00	\$259,349.47		\$0.00

Schedule of Values Stonehenge WWPS Modification

ITEM NO.	DESCRIPTION OF WORK	SCHEDULED VALUES	WORK COMPLETED			TOTAL COMPLETED AND STORED TO DATE (D+E+F)	% (G/C)	BALANCE TO FINISH (C-G)
			Previous Applications	This Application				
				Work in Place	Stored Materials (not in D or E)			
General:								
1	Mobilization	\$3,000.00	\$ 3,000.00			\$ 3,000.00	100%	\$0.00
2	Soil Erosion	\$500.00	\$ 500.00			\$ 500.00	100%	\$0.00
3	Demolition / Clearing	\$13,000.00	\$ 13,000.00			\$ 13,000.00	100%	\$0.00
4	By Pass Pumping	\$800.00	\$ 800.00			\$ 800.00	100%	\$0.00
5	Site Video / Photos	\$700.00	\$ 700.00			\$ 700.00	100%	\$0.00
6	Force Mains	\$3,000.00	\$ 3,000.00			\$ 3,000.00	100%	\$0.00
7	Valve Chamber	\$90,000.00	\$ 90,000.00			\$ 90,000.00	100%	\$0.00
8	Sanitary Sewer		\$ -					
9	Restoration	\$8,000.00	\$ 5,000.00	\$ 3,000.00		\$ 8,000.00	100%	\$0.00
10	Wet Well Work / Pumps / Piping	\$84,750.00	\$ 84,750.00			\$ 84,750.00	100%	\$0.00
11	Start-Up (Man Con Michigan, Inc)	\$2,000.00	\$ 2,000.00			\$ 2,000.00	100%	\$0.00
	Allowances:		\$ -					
12	Wet Well Crack Repair	\$2,500.00	\$ -			\$ -	0%	\$0.00
13	Telephone Service	\$2,000.00	\$ -	\$ 255.26		\$ 255.26	13%	\$0.00
14	Electrical Service	\$20,000.00	\$ -			\$ -	0%	\$0.00
15	Natural Gas Line / Meter	\$10,000.00	\$ 3,161.23			\$ 3,161.23	32%	\$0.00
16	Independent Laboratory Testing	\$4,000.00	\$ -			\$ -	0%	\$0.00
	Electrical Work:		\$ -					
17	Generator Pad / Controls Pad	\$1,800.00	\$ 1,800.00			\$ 1,800.00	100%	\$0.00
18	Start Up	\$4,000.00	\$ 4,000.00			\$ 4,000.00	100%	\$0.00
19	Conduit & Fittings – Labor	\$4,100.00	\$ 4,100.00			\$ 4,100.00	100%	\$0.00
20	Conduit & Fittings – Material	\$3,150.00	\$ 3,150.00			\$ 3,150.00	100%	\$0.00
21	Wire – Labor	\$2,000.00	\$ 2,000.00			\$ 2,000.00	100%	\$0.00
22	Wire – Material	\$1,400.00	\$ 1,400.00			\$ 1,400.00	100%	\$0.00
23	Distribution Equipment – Labor	\$2,750.00	\$ 2,750.00			\$ 2,750.00	100%	\$0.00
24	Distribution Equipment – Material	\$1,400.00	\$ 1,400.00			\$ 1,400.00	100%	\$0.00
25	Instrumentation – Labor	\$1,150.00	\$ 1,150.00			\$ 1,150.00	100%	\$0.00
26	Instrumentation – Material	\$600.00	\$ 600.00			\$ 600.00	100%	\$0.00
27	Excavation – Labor	\$2,500.00	\$ 2,500.00			\$ 2,500.00	100%	\$0.00
28	Generators – Labor	\$1,550.00	\$ 1,550.00			\$ 1,550.00	100%	\$0.00
29	Generators – Material	\$13,250.00	\$ 13,250.00			\$ 13,250.00	100%	\$0.00
30	Demolition – Labor	\$1,100.00	\$ 1,100.00			\$ 1,100.00	100%	\$0.00
31	Start-Up (Electrician)	\$4,000.00	\$ 4,000.00			\$ 4,000.00	100%	\$0.00
CM#3	Stonehenge, Landscape Retaining Wall			\$ 3,750.00		\$ 3,750.00	100%	\$0.00
CM#3	Stonehenge Wet Well, Raise 1 foot			\$ 1,100.00		\$ 1,100.00	100%	\$0.00
CM#3	Electrical Credit			\$ (435.00)		\$ (435.00)	100%	\$0.00
CM#3	Bumpers	\$288.00		\$ 2,016.00		\$ 2,016.00	100%	\$0.00
CM#3	Tree, Arborvitae, 4 feet	\$187.50		\$ 2,250.00		\$ 2,250.00	100%	\$0.00
	Total	\$289,475.50	\$250,661.23	\$11,936.26	\$0.00	\$262,597.49		\$0.00



Contract Modification

Fishbeck, Thompson, Carr, and Huber, Inc.

11/29/2007 4:11 PM

FieldManager 4.3a

Contract: _G06202CI, Country Place and Stonehenge WWPS Modifications

Cont. Mod. Number 2	Revision Number 4	Cont. Mod. Date 11/29/2007	Net Change \$-56,880.04	Awarded Contract Amount \$576,000.00
Route				
Contract Location				

Short Description

Final Extension of Time, Final Balance All Items & Add Extras

Description of Changes

It is requested that the following Extra item be added to the contract and the Original item be balanced as shown below.

Increases / Decreases

Project: G06202CI, Country Place and Stonehenge WWPS Modifications

CNST

Category: 0001, Country Place

Item Description	Item Code	Prop.Ln.	Item Type	Unit	Quantity Chg.	Unit Price	Dollar Value
Wet Well Crack Repair	_6202012	0012	Original	Dlr	-2,500.000	1.00000	\$-2,500.00
Telephone Service	_6202013	0013	Original	Dlr	-1,810.920	1.00000	\$-1,810.92
Electrical Service	_6202014	0014	Original	Dlr	-20,000.000	1.00000	\$-20,000.00
Reason: DTE did not charge for this work.							
Natural Gas Line/Meter	_6202015	0015	Original	Dlr	-8,013.610	1.00000	\$-8,013.61
Independent Laboratory Testing	_6202016	0016	Original	Dlr	-4,000.000	1.00000	\$-4,000.00

Subtotal for Category 0001: \$-36,324.53



Contract Modification

Fishbeck, Thompson, Carr, and Huber, Inc.

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FieldManager 4.3a

Increases / Decreases

Project: G06202CI, Country Place and Stonehenge WWPS Modifications

CNST

Category: 0002, Stonehenge

Item Description	Item Code	Prop.Ln.	Item Type	Unit	Quantity Chg.	Unit Price	Dollar Value
Wet Well Crack Repair	_6202012	0012	Original	Dlr	-2,500.000	1.00000	\$-2,500.00
Telephone Service	_6202013	0013	Original	Dlr	-1,744.740	1.00000	\$-1,744.74
Electrical Service	_6202014	0014	Original	Dlr	-20,000.000	1.00000	\$-20,000.00
Reason: DTE did not charge for this work.							
Natural Gas Line/Meter	_6202015	0015	Original	Dlr	-6,838.770	1.00000	\$-6,838.77
Independent Laboratory Testing	_6202016	0016	Original	Dlr	-4,000.000	1.00000	\$-4,000.00

Subtotal for Category 0002: \$-35,083.51

Subtotal for Project G06202CI: \$-71,408.04

New Items

Project: G06202CI, Country Place and Stonehenge WWPS Modifications

Category: 0001, Country Place

Item Description	Item Code	Prop.Ln.	ItemType	Unit	Proposed Qty.	Unit Price	Dollar Value
_ Bumpers	2057050	0045	Extra	Ea	4.000	288.00000	\$1,152.00
Reason: Additional bumpers were required to protect the station equipment near maintenance vehicle parking.							
_ Irrigation Repairs	1047060	0046	Extra	Dlr	825.000	1.00000	\$825.00
Reason: At the request of the City some additional landscaping was added to the site and irrigation had to be moved to avoid interference with proposed trees.							
_ Electrical Credit	1047060	0048	Extra	Dlr	-435.000	1.00000	\$-435.00

Reason: At the City's request the control panel was moved directly adjacent to the wet well, which eliminated the need for the electrical pull box.



Contract Modification

Fishbeck, Thompson, Carr, and Huber, Inc.

1/29/2007 4:11 PM

FieldManager 4.3a

New Items

Project: G06202CI, Country Place and Stonehenge WWPS Modifications

Category: 0001, Country Place

Item Description	Item Code	Prop.Ln.	ItemType	Unit	Proposed Qty.	Unit Price	Dollar Value
_ Tree, Arborvitaes, 4 feet	7137050	0049	Extra	Ea	14.000	187.50000	\$2,625.00

Reason: At the request of the condo association and the City this work was done to create better aesthetics and reduce visibility of the station.

_ Asphalt Pathway Repair, Hand Patching	1047060	0051	Extra	Dir	1,680.000	1.00000	\$1,680.00
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Reason: At the City's request the contractor was directed to make the existing path wider for maintenance vehicle access.

Subtotal for Category 0001: \$5,847.00

Category: 0002, Stonehenge

Item Description	Item Code	Prop.Ln.	ItemType	Unit	Proposed Qty.	Unit Price	Dollar Value
_ Bumpers	2057050	0045	Extra	Ea	7.000	288.00000	\$2,016.00

Reason: Additional bumpers were required to protect the station equipment near maintenance vehicle parking.

_ Stonehenge Wet Well, Raise 1 foot	1047060	0047	Extra	Dir	1,100.000	1.00000	\$1,100.00
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Reason: To create positive drainage the wet well was raised by one foot.

_ Electrical Credit	1047060	0048	Extra	Dir	-435.000	1.00000	-\$435.00
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Reason: At the City's request the control panel was moved directly adjacent to the wet well, which eliminated the need for the electrical pull box.

_ Tree, Arborvitaes, 4 feet	7137050	0049	Extra	Ea	12.000	187.50000	\$2,250.00
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Reason: At the request of the condo association and the City this work was done to create better aesthetics and reduce visibility of the station.

_ Stonehenge, Landscape Retaining Wall	1047060	0050	Extra	Dir	3,750.000	1.00000	\$3,750.00
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Reason: At the request of the condo association and the City this work was done to create better aesthetics, the ability to maintain the slope, and reduce erosion from adjacent property.

Subtotal for Category 0002: \$8,681.00

Subtotal for Project G06202CI: \$14,528.00



Contract Modification

Fishbeck, Thompson, Carr, and Huber, Inc.

11/29/2007 4:11 PM

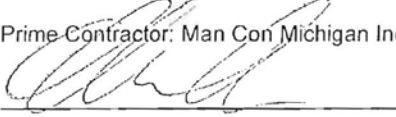
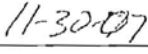
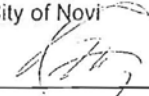
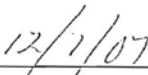
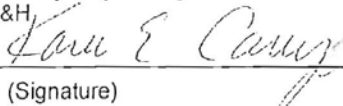
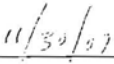
FieldManager 4.3a

Time Extensions

Site	Site Description	Site Type	Original Compl. Date/Days	Additional No. of Days	New Compl. Date/Days
00	Overall Contract Site	Completion Date	6/6/2007		11/27/2007

Reason: The original substantial completion date was March 25, 2007. The original contract completion date was May 24, 2007. The final actual substantial completion date was September 27, 2007, and the final actual contract completion date, including punch list work, is November 28, 2007.

This extension of time is to be given to final completion date with no liquidated damages. The start date was delayed by 73 days due to the delay in obtaining the MDEQ permit. DTE delayed providing service for 97 days at no fault of the contractor, AT&T and Consumer's Energy services delay were concurrent with DTE delays. Poor weather conditions existed for 17 days. The contractor is to be granted 30 days for additional landscaping work that was added to the contract.

Prime Contractor: Man Con Michigan Inc.  (Signature)	 (Date)	City of Novi  (Signature)	 (Date)
Prepared by Project Engineer: Ms. Karen E. Carnago, P.E. - FTC&H  (Signature)	 (Date)		