

CITY of NOVI CITY COUNCIL

Agenda Item 2 February 5, 2018

SUBJECT: Approval of Change Order No. 2 to Anglin Civil, LLC for the 2017 Stormwater Improvements – Village Oaks Lake and Village Wood project in the amount of \$375,274.10 for the added work of Heslip Drive Detention Basin Cleanout and Bassett Drain (McSweeney Pond) Cleanout and Culvert Replacement.

SUBMITTING DEPARTMENT: Department of Public Services, Engineering Division

CITY MANAGER APPROVAL:

EXPENDITURE REQUIRED	\$ 177,161.10- Heslip Drive Detention Basin Cleanout
	\$ 198,113.00- Bassett Basin Cleanout & Culvert Replacement
	\$ 375,274.10
AMOUNT BUDGETED	\$ 233,579.00 - Heslip Drive Detention Basin Cleanout
	\$ 253,550.00 - Bassett Basin Cleanout & Culvert Replacement
LINE ITEM NUMBER	210-211.00-865.128 Heslip Drive Detention Basin Cleanout
	210-211.00-865.030 Bassett Basin Cleanout & Culvert Replacement

BACKGROUND INFORMATION:

Per City Council Meeting Minutes dated December 1976, the City agreed to permit the developer to maintain the Heslip Drive detention basin without providing a performance guarantee or lien on the industrial subdivision property, but obligated the developer to maintain the basin. Although documentation indicates the developer should have been responsible for maintaining the basin beginning in 1973, there are no clear records from the City supporting that any maintenance was ever undertaken on the detention basin. Given the unclear documentation of the detention basin maintenance, the City Attorney has determined the responsibility for the detention basin maintenance lies with the City.

The Bassett Drain connects to Bishop Creek on the north side of Eleven Mile Road, west of Meadowbrook Road. Bassett Drain requires sediment accumulation removal to prevent damage to Novi's regional detention basins downstream by intercepting the sediment that is currently bypassing the Bassett Drain and causing excessive loading on the Middle Rouge River. The homeowner on the property where Bassett Drain is located has also requested that this cleanout occur in order to prevent excessive flooding on his property. Bassett Drain currently has a corrugated metal pipe (CMP) culvert that is in disrepair and the pond has reached sediment capacity for on the property. As part of the change order, the City intends to remove and replace the CMP culvert and cleanout the accumulated sediment from the upstream portion of the aforementioned culvert. Additionally, rip-rap will be installed on the south bank of the pond.

This change order incorporates both projects for \$375,274.10 in changes in quantities and scope to complete these stormwater system improvements.

RECOMMENDED ACTION: Approval of Change Order No. 2 to Anglin Civil, LLC for the 2017 Stormwater Improvements – Village Oaks Lake and Village Wood project in the amount of \$375,274.10 for the added work of Heslip Drive Detention Basin Cleanout and Bassett Drain (McSweeney Pond) Cleanout and Culvert Replacement.





Map Author: J. Akers Date: 1/29/2018

Amended By: Date:

MAP INTERPRETATION NOTICE





City of Novi

Engineering Division

Department of Public Services
26300 Lee BeGole Drive

Novi, MI 48375

otherfrequents







WORK CHANGE DIRECTIVE & CHANGE ORDER No. ____2

PURCHASE ORDER NO. 95180

Project:	Village Oaks/Wood SW Imprvmnts		
Owner:	City of Novi 26300 Lee BeGole Dr. Novi, Michigan 48375 (248) 735-5632	Engineer:	OHM Advisors 34000 Plymouth Road Livonia, Michigan 48150 (734) 522-6711
Contractor:	Anglin Civil, LLC 13000 Newburgh Road Livonia, Michigan 48150 (248) 397-4200	Time and cha balancing ind	nt hereby renders changes in the Work, changes in the Contract inges in the Contract Price by adding, deducting and/or lividual Contract line items through a signed authorization of the ictor, Owner, and Engineer.
Drafted Date:	January 29, 2018		
Reasoning:	Adding work to Anglin's existing contract detailing the clean-o	out of the Bassett Orain (Division 2	t) off of 11 Mile Road and the Healip Drive Regional Detention Basin (Division 3).

EXISTING CONTRACT ITEMS

Item No.	Division	Item Description	Unit	Unit Price \$640.00	Quantity	Contract Add	Deduct
			Offic	The same	quantity	Aud	
0	1	"Crew Days" - Base Bid "Crew Days" - Bassett Drain Clean-Out "Crew Days" - Heslip Dr Detention Basin "Crew Days" - "Crew Days" -	CD	\$640.00			
0	2	"Crew Days" - Bassett Drain Clean-Out	CD	\$700.00	15	2	
0	3	"Crow Days" Healin Dr Detention Rosin	CD	\$700.00	20	2	- 17
		Orew Days - Heslip Dr Deterition Dasin	00	\$700.00	20		
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26 2 Mobilization, Max 10% LS \$18,000.00 1 \$18,000.00 27 2 Audio-Video Recording LS \$2,875.00 1 \$2,275.00 28 2 Erosion Control, Silf Fance LF \$5.75 235 \$1,351.25 29 2 Erosion Control, Silf Fance LF \$15.00 40 \$4,400.00 30 2 Pavement, Removal SY \$19.55 330 \$8,451.50 31 2 Pord Glean-Out CY \$888,55 850 \$75,225.50 32 2 Sewer, Rem, Leas than 24-inch LF \$37.50 16 \$862.60 33 2 Sewer, Rem, 24-inch to 48-inch LF \$37.50 16 \$862.60 33 2 Sewer, Rem, 24-inch to 48-inch LF \$37.50 16 \$862.60 33 2 Sewer, Rem, 24-inch to 48-inch LF \$37.50 16 \$862.60 33 2 Sewer, Rem, 24-inch to 48-inch LF \$37.50 16 \$862.60 33 2 Sewer, Rem, 24-inch to 48-inch LF \$37.50 16 \$862.60 34 2 Sewer, Rem, 24-inch LF \$37.50 16 \$862.60 35 2 Cutt, Rein Concellip, Cit V, 29'x 45' LF \$850.00 30 \$12,075.00 36 2 Cutt, Rein Concellip, Cit V, 29'x 45' LF \$850.00 30 \$12,075.00 37 2 HMA, 13A, Driveway, 3-inch SY \$46.00 30 \$10,00 \$11,00 \$17,250.00 38 2 Maintenance Gravel TON \$115.00 11 \$1,725.00 39 2 Turf Establishment LS \$17,250.00 1 \$17,250.00 41 3 Audio-Video Recording LS \$1,725.00 1 \$7,750.00 41 3 Audio-Video Recording LS \$3,575.00 1 \$5,750.00 41 3 Audio-Video Recording LS \$3,575.00 1 \$5,750.00 42 3 SESC Measures LS \$3,902.50 1 \$3,902.50 43 3 Orange Construction Fencing LF \$5,565 500 \$2,790.00 44 3 Sever, Rem, Leas han 24-inch LF \$3,575.00 1 \$3,000.00 45 3 Pond Clean-Out LV CY \$20.07 \$800 \$17,280.00 46 3 Olth Clean-Out LF ST. \$3,500.00 1 \$1,33,800.00 47 5 Sever, Rem, Leas han 24-inch LF \$3,575.00 1 \$3,000.00 48 3 Clean (St. Conc.) Sever, Rem, Leas han 24-inch LF \$3,575.00 1 \$3,000.00 49 3 Cutt, Refore St. Sever, Rem, Leas han 24-inch LF \$3,575.00 1 \$3,000.00 40 3 Sever, Rem, Leas han 24-inch LF \$3,575.00 1 \$3,000.00 41 3 Sever, Rem, Leas han 24-inch LF \$3,575.00 1 \$3,000.00 42 3 Sever, Rem, Leas han 24-inch LF \$3,575.00 1 \$3,000.00 43 3 Cutt, Refore St. Sever, Rem, Leas han 24-inch LF \$3,000.00 44 3 Sever, Rem, Leas han 24-inch LF \$3,000.00 45 3 Sever, Rem, Leas han 24-inch LF \$3,000.00 45 4 Sev	Contract Drice								
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31	451.50	\$6,451,50	330	\$19.55		SY	vement. Removal	2	30
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43 3 Orange Construction Fencing					_				
45 3 Clearing & Grubbing					-				
46 3 Print Octean-Out					_				
47 3 Sewer, Rev. Less than 24-inch	380.00	\$13,380.00		,380.00		LS	earing & Grubbing	3	44
47 3 Sewer, Rev. Less than 24-inch	266.00	\$76,266.00	3800	\$20.07		CY			45
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Page 2 of 2

PRELIMINARY OPINION OF PROBABLE PROJECT COSTS

Project ID#

CIP Budget Category

Opinion as of

Total Project Cost

NEW

Storm Sewer & Drainage

January 2018

\$233,579

Heslip Drive Detention Basin Cleanout

Cleanout accumulated sediment and vegetation from the basin, replace end sections/rip-rap, and clean inlet & outlet sewers



Design Engineering	\$ 9,200
Right-of-Way Acquisition	\$ -
Geotechnical Design	\$ -
Other	\$ -
TOTAL ENGINEERING	\$ 9,200
* Contingency	\$ 460
* Contingency Notes:	
5%	

Construction	\$	177,161
Construction Engineering	\$	12,401
Crew Days	\$	14,000
Material Testing	\$	-
Other	\$	-
TOTAL CONSTRUCTION	\$	203,562
* Contingency	\$	203,562
	·	
* Contingency	·	

BUDGET DETERMINATION BASED ON YEAR AWARDED							
2017-18 \$233,580	2022-23	\$270,783					
2018-19 \$240,587	2023-24	\$278,907					
2019-20 \$247,805	2024-25	\$287,274					
2020-21 \$255,239	2025-26	\$295,892					
2021-22 \$262,896	2026-27	\$304,769					

Outside Funding?

No



OHM Advisors

1827 N. Squirrel Road, Auburn Hills Michigan, 48326

CLIENT: City of Novi

PROJECT: Heslip Drive Detention Basin Cleanout

DESCRIPTION: Cleanout accumulated sediment and vegetation from the basin, replace end sections/rip-rap, and clean inlet & outlet sewers. Located on the east side of Heslip Drive, north of 9 Mile Road

Telephone: (248) 751-3100 FAX: (248) 364-3001

DATE: Jan 22, 2018 PROJECT NO. 0163-17-0140 CONTRACTOR: Anglin Civil

			Total	Unit	Total
Item	Description	Unit	Quantity	Price	Cost
1	Mobilization, Max. 5%	LS	1	\$7,500.00	\$7,500.00
2	Audio Video Recording	LS	1	\$5,575.00	\$5,575.00
3	Soil Erosion and Sedimentation Control Measures	LS	1	\$3,902.50	\$3,902.50
4	Orange Construction Fencing	FT	500	\$5.58	\$2,790.00
5	Clearing & Grubbing	LS	1	\$13,380.00	\$13,380.00
6	Pond Cleanout	CYD	3,800	\$20.07	\$76,266.00
7	Ditch Cleanout	FT	90	\$55.75	\$5,017.50
8	Sewer, Rem, Less than 24 inch	FT	20	\$55.75	\$1,115.00
9	Sewer, C76 Cl IV, 18 inch, Tr Det A	FT	20	\$111.50	\$2,230.00
10	Culv End Section, Conc, 12 inch to 24 inch	EA	4	\$1,672.50	\$6,690.00
11	Culv End Section, Conc, 54 inch	EA	1	\$9,477.50	\$9,477.50
12	Rip Rap, Plain	SYD	150	\$33.45	\$5,017.50
13	Clean/Video Sewer, 12 inch to 24 inch	FT	420	\$8.92	\$3,746.40
14	Clean/Video Sewer, 30 inch to 60 inch	FT	490	\$13.38	\$6,556.20
15	Temporary Access Road	LS	1	\$2,787.50	\$2,787.50
16	Turf Restoration	SYD	2,500	\$5.58	\$13,950.00
17	Pond Bank Restoration	SYD	2,000	\$5.58	\$11,160.00
18	Crew Days	DAY	20	\$700.00	\$14,000.00

Subtotal \$191,161.10 **Total Bid Amount** \$191,161.10



January 4, 2018

Mr. George Melistas Engineering Senior Manager and Traffic Engineer City of Novi - Department of Public Services 26300 Lee BeGole Drive Novi, MI 48375

RE: Heslip Drive Detention Basin Cleanout Proposal for Professional Services

Dear Mr. Melistas:

Per your request, the following outlines our proposed scope of services and fee to perform a design and cost estimate for cleanout of the regional detention pond on the east side of Heslip Drive, north of Nine Mile Road. This summary includes our project understanding, proposed scope of work, assumptions, schedule, and fee.

PROJECT UNDERSTANDING

We met with City representatives at the City Department of Public Services on December 21, 2017 to discuss this project. We understand that the City desires to cleanout accumulated sediment and vegetation from the basin. As part of the cleanout, the City desires the pond to be "over-excavated" to create a wet basin. The end sections of the existing inlet and outlet sewers will be replaced, including new riprap as part of the work. Additionally, the City would like the existing inlet sewer from Heslip Drive and the outlet sewer along and under the railroad line cleaned and videoed as part of the project. We further understand that the City has jurisdiction over this pond and associated inlet/outlet sewers.

SCOPE OF SERVICES

The following outlines our work plan to accomplish the scope of services for this project related to culvert replacement, and pond cleanout and modifications as noted above:

- Evaluate available background information and as-built documents that may be helpful in determining basin cleanout volumes.
- Provide an Opinion of Construction Cost Estimate for the proposed basin cleanout, end section/riprap, and sewer cleaning work.
- Utilize existing plans and background information to prepare a plan sheet with necessary details and notes as to the specifics of the basin work.
- Prepare contract documents using standard City contract front-end documents, bidding forms, contract forms, technical/general specifications, method of payment, and supplemental specifications.
- Provide a pdf of the final construction documents and bid sheet to a City selected Contractor for pricing.



ASSUMPTIONS

The following summarizes our assumptions associated with this proposal:

- Survey work is not anticipated to be required. We assume necessary existing and previously proposed basin elevations are available on existing plans and GIS data. We have assumed that 3 to 4 feet of material will be removed from the basin bottom to achieve the desired volume. The final volume of material associated with the excavation will require field verification.
- No geotechnical information is available or to be obtained for the project. The existing soil conditions will need to be evaluated in the field to determine the feasibility of "over-excavating" to create a wet basin.
- We do not anticipate modelling of the pond, sewer, or culvert, and this work is not included in our proposal.
- We assume no utility pole relocations are necessary as part of our design scope.
- Permit applications are not anticipated to be required for this work.
- We do not anticipate remediation or removal of contaminated or hazardous soils or materials. The selected contractor may be required to provide sampling for landfill acceptance purposes at their own cost.
- A full project manual contract book is not anticipated for this project. We assume that we would provide necessary plan sheets and specifications/special provisions to a City selected contractor for pricing and installation.

SCHEDULE

The following outlines our anticipated schedule milestones of main tasks related to this work effort assuming authorization to proceed by January 9, 2018:

- Construction Plan Sheet, Special Provisions, and Construction Cost Opinion Final Deliverable January 19, 2018
- Construction to begin in February and final restoration completed by May.

FEE

Based on the above outlined scope of services and assumptions, our proposed lump sum fee to perform this work is \$9,200. Our fee derivation is based on the following breakdown:

- 15 hours of project management, lead engineer, and QAQC related time at the standard blanket contract agreement rate of \$115/Hr.
- 65 hours of staff engineer related time (for all individual engineering staff assigned to the project) at the standard blanket contract agreement rate of \$115/Hr.



We appreciate the opportunity to provide professional services to the City of Novi on this project. If you have any questions related to our proposal, please do not hesitate to contact us.

Sincerely,

OHM Advisors

Timothy J. Juidici Client Representative

cc: Jim Stevens, OHM

File

PRELIMINARY OPINION OF PROBABLE PROJECT COSTS

Project ID#

CIP Budget Category

Opinion as of

Total Project Cost

NEW

Storm Sewer & Drainage

January 2018

\$253,550

Bassett/McSweeney Culvert Replacement

Replace existing culvert, cleanout pond, install rip rap along south pond bank. Near Meadowbrook on 11 Mile



\$ 8,400
\$ -
\$ -
\$ -
\$ 8,400
\$ 420
\$ \$ \$

\$ 198,113
\$ 13,868
\$ 10,500
\$ -
\$ -
\$ 222,481
\$ 22,249
\$ 22,249
\$ 22,249
\$ \$ \$ \$

BUDGET DETERMINATION BASED ON YEAR AWARDED							
2017-18 \$253,550	2022-23 \$293,934						
2018-19 \$261,157	2023-24 \$302,752						
2019-20 \$268,991	2024-25 \$311,835						
2020-21 \$277,061	2025-26 \$321,190						
2021-22 \$285,373	2026-27 \$330,825						

Outside Funding?
No



ORCHARD, HILTZ & McCLIMENT, INC. 34000 Plymouth Road, Livonia, Michigan, 48150

PROJECT: PROJECT DESCRIPTION:

City of Novi
Basset/McSweeney Culvert Replacement
Replace existing culvert, cleanout pond, install rip rap
along south pond bank. Located on the north side of 11 Mile Road, west
of Meadowbrook

Telephone: (734) 522-6711 FAX: (734) 522-6427 DATE: Jan 22, 2018 PROJECT NO. 0163-17-0090 CONTRACTOR: Anglin Civil

			Estimated	Unit	Total
Item	Description	Unit	Quantity	Price	Cost
1	Mobilization, Max. 10%	LS	1	\$18,000.00	\$18,000.00
2	Audio Video Recording	LS	1	\$2,875.00	\$2,875.00
3	Erosion Control, Silt Fence	FT	235	\$5.75	\$1,351.25
4	Erosion Control, Check Dam, Stone	FT	40	\$115.00	\$4,600.00
5	Pavt, Rem	SYD	330	\$19.55	\$6,451.50
6	Pond Cleanout	CYD	850	\$88.55	\$75,267.50
7	Sewer, Rem, Less than 24 inch	FT	15	\$57.50	\$862.50
8	Sewer, Rem, 24 inch to 48 inch	FT	55	\$57.50	\$3,162.50
9	Culv, Reinf Conc Ellip, Cl IV, 29 inch x 45 inch	FT	60	\$500.25	\$30,015.00
10	Rip Rap, Plain	SYD	350	\$34.50	\$12,075.00
11	Aggregate Base, 21AA, 8 inch	SYD	385	\$24.15	\$9,297.75
12	HMA, 13A, Driveway, 3 inch	SYD	330	\$46.00	\$15,180.00
13	Maintenance Gravel	TON	15	\$115.00	\$1,725.00
14	Turf Establishment	LS	1	\$17,250.00	\$17,250.00
15	Crew Days	DAY	15	\$700.00	\$10,500.00

Subtotal	\$208,613.00
Total Bid Amount	\$208,613.00



August 14, 2017

Mr. George Melistas Engineering Senior Manager and Traffic Engineer City of Novi - Department of Public Services 26300 Lee BeGole Drive Novi, MI 48375

RE: Bassett Drain Culvert Replacement Proposal for Professional Services

Dear Mr. Melistas:

Per your request, the following outlines our proposed scope of services and fee to perform a design and cost estimate for culvert replacement and pond improvements along the Bassett Drain portion of Bishop Creek on the north side of Eleven Mile Road, west of Meadowbrook Road. This summary includes our project understanding, proposed scope of work, assumptions, schedule, and fee.

PROJECT UNDERSTANDING

We met with the City on site on July 11, 2017 and at the City Department of Public Services on July 20, 2017 to discuss this project. We understand that the City desires to remove and replace an existing CMP culvert along Bishop Creek at the Basset Drain crossing under the driveway of the McSweeney Property, and cleanout accumulated sediment from the upstream portion of the aforementioned culvert. Additionally, the south bank of the pond will be assessed in regard to erosion to determine if rip-rap armoring along this segment of bank is necessary. We further understand that the City has jurisdiction over this pond and culvert as they relate to the Basset Drain.

SCOPE OF SERVICES

The following outlines our work plan to accomplish the scope of services for this project related to culvert replacement, and pond cleanout and modifications as noted above:

- Evaluate available background information and as-built documents that may be helpful in determining appropriate size and elevation of new replacement culvert.
- Provide an Opinion of Construction Cost Estimate for the proposed culvert replacement, pond cleanout, and pond modification work.
- Utilize existing plans to prepare a plan sheet with necessary details and notes as to the specifics of the culvert replacement, and pond cleanout and modification work. Also prepare special provisions necessary for rip-rap and restoration.
- Provide plan sheet and special provisions to the City for final comment.
- Provide a pdf of the final construction documents and bid sheet to a City selected Contractor for pricing.



ASSUMPTIONS

The following summarizes our assumptions associated with this proposal:

- Survey work is not anticipated to be required. We assume necessary existing and previously proposed culvert and pond elevations are available on existing plans from the 1996 project. We have assumed a top of sediment elevation at an average of 875.33. The final volume of sediment associated with the dredging will require field verification.
- The existing weir at the outlet of the pond is anticipated to remain in place after project completion.
- We do not anticipate modelling of the pond, drain, or culvert, and this work is not included in our proposal.
- We assume no utility pole relocations are necessary as part of our design scope.
- Permit applications are not anticipated to be required for this work.
- We do not anticipate remediation or removal of contaminated or hazardous soils or materials. The selected contractor may be required to provide sampling for landfill acceptance purposes at their own cost.
- A full project manual contract book is not anticipated for this project. We assume that we would provide
 necessary plan sheets and specifications/special provisions to a City selected contractor for pricing and
 installation.

SCHEDULE

The following outlines our anticipated schedule milestones of main tasks related to this work effort assuming authorization to proceed by August 17, 2017:

- Construction Plan Sheet, Special Provisions, and Construction Cost Opinion Final Deliverable September 15, 2017
- Construction to begin in early-October and final restoration completed by May of 2018

FEE

Based on the above outlined scope of services and assumptions, our proposed lump sum fee to perform this work is \$8,400. Our fee derivation is based on the following breakdown:

- 10 hours of project management, lead engineer, and QAQC related time at the standard blanket contract agreement rate of \$105/Hr.
- 70 hours of staff engineer related time (for all individual engineering staff assigned to the project) at the standard blanket contract agreement rate of \$105/Hr.



We appreciate the opportunity to provide professional services to the City of Novi on this project. If you have any questions related to our proposal, please do not hesitate to contact us.

Sincerely, OHM Advisors

George A. Tsakoff, PE Senior Project Manager

cc: James Stevens, PE, OHM Advisors