

**Maumee Watershed Conservancy District
Hancock County Flood Diversion**

MONTHLY PROGRESS REPORT #16

FOR STANTEC CONSULTING SERVICES INC.

Period Covered:

1-January-2018 thru 9-February-2018

Submitted by:

**Stantec Consulting Services Inc.
4540 Heatherdowns Boulevard, Suite A
Toledo, Ohio 43614**

**Telephone: (419) 380-8910
Fax: (419) 380-8920**

I. Invoice Summary and Project Financial Status

- Invoice Number 1316563 totaling \$5,310.50, for the authorized Supplemental Services related to field investigations for permitting and processing aerial survey (Han. Co. PO No. 01608968), is submitted for consideration. This invoice includes time applied by Stantec staff.
- A second invoice, Invoice 1316564 totaling \$9,982.30 for the preliminary engineering and Section 106 consultation related to the proposed Hydraulic Improvements (Han. Co. PO No. 01703439), is submitted for consideration. This invoice includes time applied by Stantec staff as well as a subconsultant invoice from The Mannik & Smith Group (\$8,628.30).
- A third invoice, Invoice 1316565 totaling \$77,571.63 for tasks associated with the detailed design and agency coordination for the Hydraulic Improvements (Han. Co. PO No. 01705464), is submitted for consideration. This invoice includes time and expenses applied by Stantec staff as well as a subconsultant invoice from Hart Associates, Inc. (\$2,600.72).
- A fourth invoice, Invoice 1316566 totaling \$105,336.09 for tasks associated with the Proof of Concept Update (Han. Co. PO No. 01707430), is submitted for consideration. This invoice includes time and expenses applied by Stantec staff as well as subconsultant invoices from Kucera International Inc. (\$12,960.00), TTL Associates, Inc. (\$16,547.00), Jack Faucett Associates, Inc. (\$11,080.00 and \$7,260.00), and Bockrath & Associates (\$11,015.00).
- To-date approximately 89.8% of the total authorized funds for the Program have been invoiced.

II. Major Issues and Decisions

Permitting

- Continued coordination with The Mannik & Smith Group (MSG) for permitting consultation with SHPO related to the Hydraulic Improvements. The architectural and archaeological survey report was provided to SHPO on February 5th and links to the files were provided to USACE and OEPA for agency coordination.
- The 401 and 404 permit applications were provided to the respective agencies the week of December 18th. A completeness review was completed and responses provided to comments received. The public notice for the USACE 404 Permit was issued on February 13th. This is a key milestone.
- A draft Rule 27-13 Application and Stormwater Pollution Prevention Plan (SWP3) for the Hydraulic Improvements have been submitted to the Ohio EPA and Stantec staff are coordinating with Agency staff to refine the proposed language and incorporate necessary modifications into the project specifications.
- An Ohio EPA Permit to Install (PTI) will also be required for the proposed sanitary sewer replacements at the project site. Stantec staff have been working with the City of Findlay to ensure a complete understanding of the City's needs and will be submitting the PTI application once the plans have been refined.

Aerial & Ground-Based Survey

- Limits of private property impacts and draft easement descriptions for two (2) parcels have been provided to the MWCD Project Manager to negotiate easements with local property owners.
- Bockrath received the right of entry requested from Norfolk-Southern (NS) to allow detailed survey of the railroad right-of-way through the project area and completed the field work the week of January 9th. The survey data has been provided to Stantec and is being processed for incorporation into the current surface model for the entire site.
- Kucera has continued through the stages of aerial survey post-processing for creation of 0.5-foot contours within the watershed for refinement of prior concepts. Their processing

should be completed by the end of February. This data allows us to better estimate the impacts of proposed concepts, as well as the potential positive results.

Hydraulic Improvements Preliminary & Final Engineering

- Continued tracking and coordination of utility information gathered from the City of Findlay and local utility companies. Discussions and local meetings to discuss potential impacts to the local sewers within Swale Park ("Brandman Area Sewers") are on-going and will continue to be refined through the 95% plan development.
- Continued coordination with MWCD staff regarding proposed impacts to the existing AEP transmission system through Swale Park. Stantec staff have reviewed potential options and impacts. MWCD staff are continuing conversations regarding a possible resolution.
- Refinement of the design details will continue as the permit applications are reviewed by the respective agencies.
- Continued contact with the Norfolk-Southern RR regarding recommended bridge modifications. Additional follow-up will be on-going for the next several months to obtain an estimate for the cost of the anticipated cooperative agreement with NS.

Proof of Concept Update

- Jack Faucett Associates (JFA) has continued update and revision of property and structure impact analyses in anticipation of the revised water surface profiles that may be generated from the new H&H modeling. They have also begun the process of updating the anticipated cost impacts and benefit values in advance of model outputs.
- Geotechnical investigations related to the Proof of Concept Update are complete and no significant surprises or anomalies have been identified. A draft report for these investigations was provided in January.
- Updates to the hydrology model are progressing for screening of alternative solutions and "cost curves" for comparison of refined conceptual solutions. Update to the hydraulic model is also continuing to reflect the new hydrology output.

Public Information & Outreach

- Continued coordination with HART for the addition of documents to Program webpage (www.HancockCountyFlooding.com) to reflect the addition of program-related documents.
- Continued general monitoring of local media and public relations information.
- Conducted local presentation on January 24th. Roughly 40-50 local residents were in attendance and only nominal questions and comments were received. A copy of the slide presentation from the meeting is posted to the program webpage.

III. Schedule

Task	Proposed Timeline	Current Status	Anticipated Timeline
A. & B. Proof of Concept Report		Complete	
C – Supplemental #1			
C.1 – Wetland Delineation & Habitat Assessment	1/31/2017	Field Work and Report Complete for Diversion Channel ~ On Hold	N/A
C.2 – Archaeological Survey	1/31/2017	Field Work and Report for Diversion Channel Complete for areas East of I75 ~ On Hold	N/A
C.3 – Aerial Surveying	12/31/2016	Aerial Imagery Complete; Additional processing for the watershed area is currently underway	N/A
D – Hydraulic Improvements (Preliminary Design)			
D.1 – Site Assessment & Survey	7/31/2017	Geotech report complete and submitted; Survey scope complete, including with additional efforts on NSRR ROW	2/28/2018 (delayed due to NS RR)
D.2 – Cultural and Historic Resources	12/31/2017	Coordination with SHPO, USACE and OEPA On-Going; Field work for archaeological survey completed; Report submitted to OHPO	2/08/2018
D.3 – Program Management	On-Going	On-Going	On-Going
E – Hydraulic Improvements (Final Design)			
E.1 – Site Assessment & Survey	9/22/2017	Local meeting and coordination with OEPA on-going; All results being incorporated into the 95% design package	N/A
E.2 – Preliminary Design Report	10/6/2017	Final report submitted on October 30 th	10/6/2017 (Final Report Submitted)
E.3 – Detailed Design	3/23/2018	Design iterations generally completed; Utility coordination on-going; Grading plans and property impacts nearing completion; Permit comments will likely impact detailed design completion.	3/23/2018 (95% design may be delayed due to utility and permit coordination)

Task	Proposed Timeline	Current Status	Anticipated Timeline
E.4 – NSRR Coordination	1/12/2018	Concept plan provided to NS, awaiting reply; Follow-up on-going	1/12/2018 (this effort may be prolonged due to lack of response from NS)
E.5 – Permitting	9/30/2018	401/404 permit submitted; Coordination with USACE, OEPA, ODNr and USFWS on-going; Final development of Rule 27-13 permit application package underway; 404 public notice issued on February 13 th	9/30/2018 (401/404 Permit Packages to be Submitted in Dec. 2017; Rule 27-13 application in Jan. 2018)
E.6 – Program Management	On-Going	Local presentation conducted on January 24 th ; Efforts are On-Going	On-Going
F – Proof of Concept Update			
F.1 – H&H Model Simulations	4/30/2018	Revised H&H basis report finalized and submitted; Continuing additional review; AWA in data provided for July 2017 event and hydrology model is calibrated	4/30/2018
F.2 – Data Collection	2/28/2018	Additional LiDAR data processing underway and nearly complete; Soil borings completed; Desktop review of available environmental and cultural resource documents underway	2/28/2018
F.3 – Concept Refinement	2/28/2018	Initial concept refinement has started; Initial modified concepts are being screened through the hydrology model	2/28/2018
F.4 – Updated Economic Analysis	4/30/2018	Updating impacted parcel listing based upon recent purchases; Updating cost and benefit curves based upon current indices	4/30/2018
F.5 – Report Preparation	6/30/2018	No activity.	6/30/2018
F.6 – Program Management	On-Going	On-Going	On-Going

Please contact us should you have any questions or comments. Thank you for the opportunity to be of service.

Respectfully Submitted

STANTEC CONSULTING SERVICES INC.



Adam C. Hoff, P.E.

Principal

Tel: (419) 380-8910

Fax: (419) 380-8920

adam.hoff@stantec.com

APPROVAL OF PAYMENT:

On behalf of the Maumee Watershed Conservancy District and in accordance with the Memorandum of Agreement, I hereby recommend payment in favor of Stantec Consulting Services Inc. by the Hancock County Commissioners in the amount of

\$ 198,200.52.

Clark Lynn Army, General Manager

Date

Invoice Number	1316563
Invoice Date	February 13, 2018
Purchase Order	174316204
Customer Number	140260
Project Number	174316204

Bill To

Maumee Watershed Conservancy District
Steve Wilson, Project Manager
1464 Pinehurst Drive
Defiance OH 43512
United States

Please Remit To

Stantec Consulting Services Inc. (SCSI)
13980 Collections Center Drive
Chicago IL 60693
United States

Project	Hancock County Flood Diversion - Phase II Work Plan - Proof of Concept		
Project Manager	Hoff, Adam C	Contract Upset	2,875,275.00
Current Invoice Total (USD)	5,310.50	Amount Billed to Date	2,390,195.74
		For Period Ending	February 9, 2018

Top Task	401	Supplemental Task 1
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Professional Services

Category/Employee	Current Hours	Rate	Current Amount
McNulty, Dillon Albert	20.00	102.00	2,040.00
Seamands, Joseph T (Joey)	17.50	108.00	1,890.00
Fleece, William C (Cody)	3.50	151.00	528.50
Menninger, John R	2.00	156.00	312.00
Hoff, Adam C	3.00	180.00	540.00
Subtotal Professional Services	<u>46.00</u>		<u>5,310.50</u>

Top Task Subtotal	Supplemental Task 1	5,310.50
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Total Fees & Disbursements	<u>5,310.50</u>
INVOICE TOTAL (USD)	5,310.50

Due on Receipt

Invoice Number	1316564
Invoice Date	February 13, 2018
Purchase Order	174316204
Customer Number	140260
Project Number	174316204

Bill To

Maumee Watershed Conservancy District
Steve Wilson, Project Manager
1464 Pinehurst Drive
Defiance OH 43512
United States

Please Remit To

Stantec Consulting Services Inc. (SCSI)
13980 Collections Center Drive
Chicago IL 60693
United States

Project	Hancock County Flood Diversion - Phase II Work Plan - Proof of Concept		
Project Manager	Hoff, Adam C	Contract Upset	2,875,275.00
Current Invoice Total (USD)	9,982.30	Amount Billed to Date	2,400,178.04
		For Period Ending	February 9, 2018

Top Task **402** **Hyd. Imps. Ph 1**

Professional Services

Category/Employee		Current Hours	Rate	Current Amount
	Hayson, David T	2.00	137.00	274.00
	Hoff, Adam C	6.00	180.00	1,080.00
	Subtotal Professional Services	<u>8.00</u>		<u>1,354.00</u>

Subconsultants

	The Mannik & Smith Group Inc.	8,628.30
	Subtotal Subconsultants	<u>8,628.30</u>

Top Task Subtotal	Hyd. Imps. Ph 1	9,982.30
	Total Fees & Disbursements	<u>9,982.30</u>
	INVOICE TOTAL (USD)	9,982.30

Due on Receipt

Invoice Number	1316565
Invoice Date	February 13, 2018
Purchase Order	174316204
Customer Number	140260
Project Number	174316204

Bill To

Maumee Watershed Conservancy District
Steve Wilson, Project Manager
1464 Pinehurst Drive
Defiance OH 43512
United States

Please Remit To

Stantec Consulting Services Inc. (SCSI)
13980 Collections Center Drive
Chicago IL 60693
United States

Project	Hancock County Flood Diversion - Phase II Work Plan - Proof of Concept		
Project Manager	Hoff, Adam C	Contract Upset	2,875,275.00
Current Invoice Total (USD)	77,571.63	Amount Billed to Date	2,477,749.67
		For Period Ending	February 9, 2018

Top Task	403	Hydraulic Improvements Design
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Professional Services

Category/Employee	Current Hours	Rate	Current Amount
McClure, Connor Davis	2.75	80.00	220.00
Johns, Curtis W	68.00	87.00	5,916.00
Taylor, Trana L	4.50	87.00	391.50
Price, Taylor Alexis	107.25	108.00	11,583.00
Seamands, Joseph T (Joey)	43.50	108.00	4,698.00
Batt, Justin M	4.50	115.00	517.50
Gray, Michelle M (Shelly)	34.75	115.00	3,996.25
Sprague, Adam Carl	4.50	115.00	517.50
Pooler, Adam N	0.50	121.00	60.50
Pruitt, Chad	0.75	121.00	90.75
Scheibly, Jonathan F	6.00	129.00	774.00
Hayson, David T	42.00	137.00	5,754.00
Hoffman, Daniel E	1.00	137.00	137.00
Dunlap, Robert D	1.00	144.00	144.00
Looby, Joseph E (Joe)	1.00	144.00	144.00
White, Edward (Ed)	36.00	144.00	5,184.00
Dalton, Derek D	76.00	151.00	11,476.00
Fleece, William C (Cody)	36.50	151.00	5,511.50
LaBella, Anthony	15.00	151.00	2,265.00
Serazin, Hallie J	47.50	151.00	7,172.50
Hoff, Adam C	23.50	180.00	4,230.00
Ringley, Bryon F	17.75	210.00	3,727.50
Subtotal Professional Services	574.25		74,510.50

Disbursements

Direct - Expenses	460.41
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Invoice Number	1316565
Invoice Date	February 13, 2018
Purchase Order	174316204
Customer Number	140260
Project Number	174316204

Subtotal Disbursements	<u>460.41</u>
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Subconsultants

Hart Associates, Inc.	2,600.72
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Subtotal Subconsultants	<u>2,600.72</u>
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Top Task Subtotal	Hydraulic Improvements Design	77,571.63
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Total Fees & Disbursements	<u>77,571.63</u>
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INVOICE TOTAL (USD)	<u>77,571.63</u>
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Due on Receipt

Invoice Number	1316566
Invoice Date	February 13, 2018
Purchase Order	174316204
Customer Number	140260
Project Number	174316204

Bill To

Maumee Watershed Conservancy District
Steve Wilson, Project Manager
1464 Pinehurst Drive
Defiance OH 43512
United States

Please Remit To

Stantec Consulting Services Inc. (SCSI)
13980 Collections Center Drive
Chicago IL 60693
United States

Project	Hancock County Flood Diversion - Phase II Work Plan - Proof of Concept		
Project Manager	Hoff, Adam C	Contract Upset	2,875,275.00
Current Invoice Total (USD)	105,336.09	Amount Billed to Date	2,583,085.76
		For Period Ending	February 9, 2018

Top Task	404	POC Update
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Professional Services

Category/Employee	Current Hours	Rate	Current Amount
Ross, Jeffrey J (Jeff)	0.50	80.00	40.00
Taylor, Trana L	2.50	87.00	217.50
Lopina, Robert E	34.00	108.00	3,672.00
Richardson, Jillian M (Jill)	56.00	108.00	6,048.00
Sova, Troy M	1.00	115.00	115.00
Sprague, Adam Carl	125.00	115.00	14,375.00
Blakley, Kyle R	28.50	137.00	3,904.50
Hayson, David T	53.50	137.00	7,329.50
Uhl III, John N (Nick)	6.25	137.00	856.25
Caudill, Erman L	28.00	151.00	4,228.00
Dalton, Derek D	4.00	151.00	604.00
Hoff, Adam C	23.50	180.00	4,230.00
Lounsberry, Charles (Chuck)	1.00	210.00	210.00
Harris, Stanley A (Stan)	2.50	229.00	572.50
Subtotal Professional Services	366.25		46,402.25

Disbursements

Direct - Expenses	71.84
Subtotal Disbursements	71.84

Subconsultants

Kucera International Inc.	12,960.00
TTL Associates, Inc.	16,547.00
Jack Faucett Associates, Inc.	18,340.00
Bockrath & Associates	11,015.00
Subtotal Subconsultants	58,862.00

Invoice Number	1316566
Invoice Date	February 13, 2018
Purchase Order	174316204
Customer Number	140260
Project Number	174316204

Top Task Subtotal	POC Update	105,336.09
Total Fees & Disbursements		105,336.09
INVOICE TOTAL (USD)		105,336.09

Due on Receipt



BILL TO

Stantec Consulting Services
4540 Heatherdowns Boulevard
Suite A
Toledo OH 43614-3100

INVOICE # 15139

DATE 01/29/2018

DUE DATE 02/28/2018

TERMS Net 30

ACTIVITY	AMOUNT
Billable Time	
Surveying-Drawing-CH	0.00
Surveying-Review-GB	157.50
Surveying-Review-GB	52.50
Surveying-Drawing-CH	0.00
Surveying-Drawing-GB	52.50
Surveying-Research-Office	100.00
Surveying-Research-Office	75.00
Surveying-Research-Office	50.00
Surveying-Review-GB	52.50
Surveying-Drawing-CH	112.50
Surveying-Field-CH	187.50
Surveying-Review-GB	52.50
Surveying-Drawing-CH	375.00
Surveying-Drawing-GB	157.50
Surveying-Review-GB	52.50
Surveying-Drawing-GB	105.00
Surveying-Drawing-GB	52.50
Surveying-Drawing-GB	210.00
Surveying-Research-Office	25.00
Surveying-Research-Courthouse	387.50
Surveying-Drawing-GB	420.00
Surveying-Review-GB	105.00
Surveying-Research-Office	100.00
Surveying-Research-Courthouse	412.50
Surveying-Research-Office	37.50

Interest 1.5% per month or 18% per year
Credit Cards Accepted

PHONE (419) 523-5789
WWW.BOCKRATH-ES.COM

ACTIVITY	AMOUNT
Surveying-Research-Courthouse	300.00
Surveying-Review-GB	105.00
Surveying-Review-GB	52.50
Surveying-Research-Office	25.00
Surveying-Research-Office	62.50
Surveying-Review-GB	52.50
Surveying-Review-GB	105.00
Surveying-Drawing-GB	105.00
Surveying-Drawing-GB	52.50
Surveying-Drawing-GB	52.50
Surveying-Drawing-CH	262.50
Surveying-Field-CH	450.00
Surveying-Review-GB	105.00
Surveying-Drawing-GB	105.00
Surveying-Field-JK	675.00
Surveying-Drawing-CH	600.00
Surveying-Review-GB	52.50
Surveying-Drawing-GB	105.00
Surveying-Review-GB	52.50
Surveying-Drawing-CH	525.00
Surveying-Drawing-CH	450.00
Surveying-Drawing-CH	375.00
Surveying-Drawing-CH	450.00
Surveying-Drawing-CH	600.00
Surveying-Drawing-CH	600.00
Engineering-GB-Meetings	105.00
Surveying-Drawing-CH	600.00
Surveying-Drawing-CH	330.00
Surveying-Drawing-CH	165.00
Surveying-Drawing-CH	162.50

16-211 Hancock County / Blanchard River
Widening
Survey Services 11/25/18 through 1/26/2018

BALANCE DUE

\$11,015.00

Interest 1.5% per month or 18% per year
Credit Cards Accepted

PHONE (419) 523-5789
WWW.BOCKRATH-ES.COM



1915 INDIAN WOOD CIRCLE
MAUMEE OH 43537
419.893.9600
WWW.HARTINC.COM

INVOICE

Stantec
Adam Hoff
4540 Heatherdowns Blvd.
Suite A
Toledo, OH 43614

DATE: January 25, 2018
CLIENT: Stantec
Invoice G1466

Findlay Flood Risk Reduction	BUDGET	HRS.	RATE	CURRENT INVOICE	INVOICE TO DATE	% COMPLETE
Public Relations Direction Contact		3.25	\$150.00	\$ 487.50		
Public Relations Coordination		14.25	\$90.00	\$ 1,282.50		
Public Relations Writing		2	\$145.00	\$ 290.00		
Proofreading		0.75	\$115.00	\$ 86.25		
Digital Project Coordination		0.75	\$90.00	\$ 67.50		
Quality Assurance		0.75	\$95.00	\$ 71.25		
Front End Software Developer		1.25	\$170.00	\$ 212.50		
Data Analysis		0.5	\$145.00	\$ 72.50		
Sales Tax				\$ 30.72		
	45,865.00			\$ 2,600.72	\$ 38,781.08	85%
Amount Due				\$ 2,600.72		

Terms: NET 30

Hart Status Report: December 28, 2017 – January 22, 2018

- Project Management
 - Project status calls – Jan. 5 and Jan. 19
 - Various calls and emails
- Public Relations Support
 - Prepare and distribute media release for public meeting
 - Prepare and distribute media advisory for public meeting
 - Prepare potential questions list for public meeting
 - Review public meeting presentations materials
- Initial Webpage
 - Copy update
 - File uploads
 - Back end testing and updates
- Media Reporting
 - Monitor news media
 - Monitor social media
 - Prepare media report

Jack Faucett Associates

4915 Saint Elmo Avenue, Suite 205
 Bethesda, Maryland 20814
 Phone (301) 961-8800 Fax (301) 469-3001 TIN:52-0787743

INVOICE

Date: January 6, 2017

Client: Stantec
 11687 Lebanon Road,
 Cincinnati, Ohio 45241-2012
 Attn: David Haysen
 Email: David.Haysen@stantec.com
 Tel: (513) 842-8214

Contract: Hancock County Flood Risk Reduction, Findlay, Ohio

Contract #: Letter Agreement 9/12/2016
 Change Order #1, 12/1/2016
 Change Order #4, 10/16/2017

Invoice Period: Dec-17

JFA Project No.: 783-1&2

Invoice No.: 11

Total Budget:

\$27,500.00	Phase I	
\$100,000.00	Phase II	Change Order #1
\$12,600.00	Modification	Change Order #2
\$5,000.00	Modification	Change Order #3
\$74,570.00	Modification	Change Order #4
<u>\$219,670.00</u>	Total NTE	

Item #	Staff	This Period	Rate	Current Amount Due	Cumulative Amount Billed
1	Michael Lawrence	4	\$ 230.00	\$920.00	\$37,030.00
2	Jon Skolnik	28	\$ 200.00	\$5,600.00	\$59,600.00
3	RA - Ira Silvergielt & Mathies Wahner	38	\$ 120.00	\$4,560.00	\$62,280.00
4	Data Analyst - Alan Hachey		\$ 150.00	\$0.00	\$14,700.00
	Misc Costs	Implan Model			\$1,470.00
	Totals			\$11,080.00	\$175,080.00
TOTAL AMOUNT DUE				\$11,080.00	
				Balance Unbilled	\$44,590.00

Please Remit To:**Note New Address and Banking Information, phone & email unchanged.****Electronic (Preferred Method):**

Capital One Bank
 ABA # 065000090
 A/C # 1360659999

Mail: Accounts Receivable
 Jack Faucett Associates, Inc.
 4915 Saint Elmo Ave, #205
 Bethesda, Maryland 20814

Contact:

Michael F. Lawrence, Project Officer
 Tel: 301-961-8835
 Email: lawrence@jfaucett.com

Jack Faucett Associates

4915 Saint Elmo Avenue, Suite 205
 Bethesda, Maryland 20814
 Phone (301) 961-8800 Fax (301) 469-3001 TIN:52-0787743

INVOICE

Date: February 2, 2018

Client: Stantec
 11687 Lebanon Road,
 Cincinnati, Ohio 45241-2012
 Attn: David Haysen
 Email: David.Haysen@stantec.com
 Tel: (513) 842-8214

Contract: Hancock County Flood Risk Reduction, Findlay, Ohio

Contract #: Letter Agreement 9/12/2016
 Change Order #1, 12/1/2016
 Change Order #4, 10/16/2017

Invoice Period: Jan-18

JFA Project No.: 783-1&2

Invoice No.: 12

Total Budget:

\$27,500.00	Phase I	
\$100,000.00	Phase II	Change Order #1
\$12,600.00	Modification	Change Order #2
\$5,000.00	Modification	Change Order #3
\$74,570.00	Modification	Change Order #4
<u>\$219,670.00</u>	Total NTE	

Item #	Staff	This Period	Rate	Current Amount Due	Cumulative Amount Billed
1	Michael Lawrence	2	\$ 230.00	\$460.00	\$37,490.00
2	Jon Skolnik	16	\$ 200.00	\$3,200.00	\$62,800.00
3	RA - Ira Silvergielt & Mathies Wahner	30	\$ 120.00	\$3,600.00	\$65,880.00
4	Data Analyst - Alan Hachey		\$ 150.00	\$0.00	\$0.00
	Misc Costs	Implan Model			\$1,470.00
	Totals			\$7,260.00	\$182,340.00
TOTAL AMOUNT DUE				\$7,260.00	

Balance Unbilled \$37,330.00

Please Remit To:**Note New Address and Banking Information, phone & email unchanged.****Electronic (Preferred Method):**

Capital One Bank
 ABA # 065000090
 A/C # 1360659999

Mail: Accounts Receivable
 Jack Faucett Associates, Inc.
 4915 Saint Elmo Ave, #205
 Bethesda, Maryland 20814

Contact:

Michael F. Lawrence, Project Officer
 Tel: 301-961-8835
 Email: lawrence@jfaucett.com

KUCERA INTERNATIONAL INC
38133 WESTERN PARKWAY
WILLOUGHBY OHIO 44094-7589

Invoice

Divisions: HENDERSON AERIAL SURVEY *
KEDDAL AERIAL MAPPING * KUCERA SOUTH

DATE

INVOICE #

1/16/2018

23740

BILL TO

STANTEC CONSULTING SERVICES, INC.
4540 HEATHERDOWNS BLVD.
SUITE A
TOLEDO, OHIO 43614
ADAM C HOFF

SHIP TO

STANTEC CONSULTING SERVICES, INC.
4540 HEATHERDOWNS BLVD.
SUITE A
TOLEDO, OHIO 43614
ADAM C HOFF

P.O. NUMBER	TERMS	REP	SHIP	VIA	F.O.B.	PROJECT
SEE BELOW	NET 30	H	1/15/2018	FTP SITE	DESTINATION	60690
QUANTITY	ITEM CODE	DESCRIPTION			PRICE EACH	AMOUNT
	PRO	PROFESSIONAL SERVICES/ PHOTOGRAMMETRIC SERVICES			0.00	0.00
	LOCATION	FINDLAY, OHIO - FLOOD DIVERSION / RISK REDUCTION			0.00	0.00
		STANTEC SUBCONSULTANT AGREEMENT - 10/16/17 STANTEC REFERENCE 174316204 - HCFRR				
	DTM	HYDRO DTM / LIDAR MAPPING FOR AREA 3 - 43.2 SQ.MI. @ \$300 P/MI			12,960.00	12,960.00
		PLEASE NOTE PAYMENT IS DUE ON OR BEFORE 2/16/18 - THANK YOU!				
		LUCAS COUNTY SALES TAX			7.00%	0.00
CORPORATE ACCOUNTING OFFICE 1-800-745-8237					Total	USD 12,960.00

Invoice



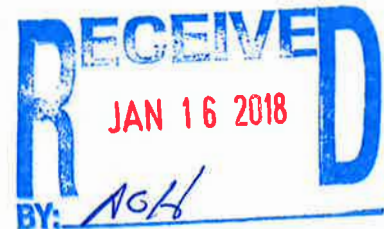
1800 Indian Wood Circle
Maumee, Ohio 43537
Tel: (419) 891-2222
Fax: (419) 891-6976

January 05, 2018

Project No: S3410003

Invoice No: MJ0009

Adam Hoff
Principal
Stantec Consulting Services, Inc.
4540 Heatherdowns Blvd.
Suite A
Toledo, OH 43614



Project S3410003 CR Studies, Blanchard River Flood Mitiga

Authorization: Signed Agreement; Change Order #02, Direction from Adam Hoff via email

Work Description: See attached work detail.

Professional Services thru December 29, 2017

Professional Personnel

	Hours	Rate	Amount
Cultural Resource Specialist II			
Bauschard, Phillip	6.25	56.00	350.00
Cultural Resource Specialist III			
Hayfield, Kate	20.75	65.00	1,348.75
Cultural Resource Specialist IV			
Chidester, Robert	31.00	77.00	2,387.00
Cultural Resource Specialist VI			
Johnson, Maura	11.25	109.00	1,226.25
Environmental Scientist VII			
Momenie, Michael	14.00	115.00	1,610.00
Technician VI			
Agosti, Bryan	.75	99.00	74.25
Totals	84.00		6,996.25
Total Labor			6,996.25

Reimbursable Expenses

Lodging / Per Diem		1,632.05
Total Reimbursables		1,632.05

Budget	Current	Prior	To-Date
Total Billings	8,628.30	32,197.17	40,825.47
Budget			46,347.00
Remaining			5,521.53

Total this Invoice \$8,628.30

Stantec: Phase I Hydraulic Improvements



MSG WORK DETAIL: NOVEMBER 24 – DECEMBER 29, 2017

INVOICE NO.: MJ0009

- Project management – General project/budget/staff oversight. Courtesy review of text for 4(f) permit.
- Archaeology survey – Post-field drawdown. Wash and bag artifacts. Review GPS data and analyze artifact catalogues. Process and convert GPS data to KML. Generate artifact spreadsheet for Ohio Archaeological Inventory (OAI).
- Architecture survey – Site visit for photos and field notes of dam remnants, raw water intake and CSO. View bridge from public ROW. Review Phase I maps from Client to identify potential cultural resource impacts and align with Work Plan.
- Report – Produce figures and photo log/key for archaeological report. Request Ohio Historic Inventory (OHI) site assignments. Contact city/county engineer for Karg Dam plans and history. Draft OHI and report text.
- Brownfield/Environmental – 27-13 application review. Review material handling specs.

INVOICE



Coder: Trana Taylor

1915 N. 12th St., Toledo 43604-5305
T 419.324.2222 F 419.241.1808

Stantec Consulting Services Inc.
Adam Hoff
4540 Heatherdowns Blvd
Suite A
Toledo, OH 43614

Invoice number 1626101-01
Date 12/14/2017

Project **1626101 Hancock County Flood Risk
Reduction Program - Findlay, OH**

Terms: Net 30 Days

Hancock County Flood Risk Reduction Program
Proof of Concept Update Geotechnical Investigations
Findlay, OH

Stantec Project No. 174316204
Subconsultant Change Order No. 2
Stantec Pipeline #544367

Description

Geotechnical Drilling Services

Mobilization and Demobilization - Drill Rig - \$850.00

Drilling in Overburden (Including SPT Sampling at Continuous Intervals) - 78 Feet at \$24.00 Per Foot = \$1,872.00

Shelby Tube Samples with 3" O.D. Thin Walled Tube - 13 at \$78.00 Each = \$1,014.00

NQ Rock Coring - 90 at \$59.00 Per Foot = \$5,310.00

Water Hauling - 5 Hours at \$130.00 Per Hour = \$650.00

Grouting/Sealing Borings - 168 Feet at \$8.00 Per Foot = \$1,344.00

Planning/Coordination/Underground Utility Notification - 3 Hours at \$110.00 Per Hour = \$330.00

2-Person Flagging Crew - 32 Hours at \$110.00 Per Hour = \$3,520.00

1-Person Flagging Crew - 12 Hours at \$55.00 Per Hour = \$660.00

Signage and Arrowboard - 4 at \$90.00 Per Day = \$360.00

Drill Crew Mileage - 364 Miles at \$1.75 Per Mile = \$637.00

Total

Invoice total **16,547.00**