

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

***MONTHLY PROGRESS REPORT #19***

***FOR STANTEC CONSULTING SERVICES INC.***

**Period Covered:**

**31-March-2018 thru 11-May-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 1358663 totaling \$3,877.00, 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 and expenses applied by Stantec staff as well as a subconsultant invoice from The Mannik & Smith Group Inc. (\$2,181.00).
- A second invoice, Invoice 1358664 totaling \$6,790.00 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 subconsultant invoices from Bockrath & Associates (\$600.00) and The Mannik & Smith Group Inc. (\$4,300.00).
- A third invoice, Invoice 1358665 totaling \$16,970.43 for tasks associated with the detailed design and agency coordination for the Hydraulic Improvements (Han. Co. PO No. 01705464 and PO No. 1803994), is submitted for consideration. This invoice includes time and expenses applied by Stantec staff.
- A fourth invoice, Invoice 1358666 totaling \$63,158.56 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 Jack Faucett Associates, Inc. (\$20,840.00), Kucera International Inc. (\$23,760.00) and Storm Water Engineering LLC (\$300.00).
- To-date approximately 97.1% 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 OHPO related to the Hydraulic Improvements. Comments received to-date have been minor and MSG has provided responses in a timely manner. OHPO has provided comments to USACE for Section 106 Consultation.
- The 401 Water Quality Certification (WQC) application packet has been submitted to the Ohio EPA and we have coordinated several specific elements with the Agency, including the revised application fees. The 401 WQP Public Notice has been issued by the Ohio EPA, has been published in the local paper and a public hearing is scheduled for June 26.
- The public notice period for the USACE 404 Permit is closed. Comments from the USACE following the public notice period have been responded to. This is a key project milestone.
- We have continued to coordinate the Rule 27-13 Application for the Brandman Site. Review comments and responses were coordinated with the OEPA prior to submission of the final application packet. The final packet was submitted to the Ohio EPA on May 11<sup>th</sup>.
- The draft Stormwater Pollution Prevention Plan (SWP3) for the Hydraulic Improvements has been accepted by the OEPA and will be included within the final design package and formal Rule 13 submission.
- 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. We anticipate completing the detailed design for these improvements and submitting the draft PTI application form and permit fee estimate to the District in late May.

### **Aerial & Ground-Based Survey**

- Survey is complete for the current tasks. Aerial survey data was shipped to MWCD via hard drive containing the final deliverables.

### **Hydraulic Improvements Preliminary & Final Engineering**

- 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. The project drawings have been revised to avoid excavating around each AEP pole within the floodplain benching area. MWCD staff are continuing conversations regarding a possible resolution.
- The 95% design package of the Hydraulic Improvements Phase 1 efforts were delivered May 4<sup>th</sup>. Comments have been received from MWCD and are being implemented into the documents prior to submission of the PTI submittal.
- Design elements impacted by the permitting review comments received thus far are being modified to reflect the review agency requirements.
- Continued contact with the Norfolk-Southern RR (NS) 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.
- The tree clearing contract is complete. The contractor has finalized punch list items for the restoration required to stabilize the disturbed areas and minimize opportunity for erosion. Final payment to the contractor has been processed by MWCD.

### **Proof of Concept Update**

- Jack Faucett Associates (JFA) has continued update and revision of property and structure impact estimates. New data resulting from the improved aerial survey have been provided and they have edited the structure inventory to reflect properties that have been acquired. Water surface profiles for existing and future conditions have been provided to JFA for processing and final set up of the HEC-FDA model. JFA is finalizing the Benefit-Cost Analysis update report.
- The updated hydrology model was used to assess alternative concepts for multiple storm centers across the watershed. Draft refined concepts and cost curves will be discussed in a Proof of Concept Update report expected to be submitted as Draft in early June.
- MSG and Stantec staff have assembled information related to permitting expectations related to potential project sites.
- The Geotechnical report has been finalized and preparing an outline of the proposed summary report document has begun.

### **Public Information & Outreach**

- Continued coordination with HART for the addition of documents to Program webpage ([www.HancockCountyFlooding.com](http://www.HancockCountyFlooding.com)) to reflect the addition of program-related documents.
- Continued general monitoring of local media and public relations information.
- As noted under the Permitting summary above, a local public hearing for the 401 WQC will occur on June 26<sup>th</sup>.

### III. Schedule

Task	Proposed Timeline	Current Status	Anticipated Timeline
<b>A. &amp; B. Proof of Concept Report</b>		Complete	
<b>C – Supplemental #1</b>			
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
<b>D – Hydraulic Improvements (Preliminary Design)</b>			
D.1 – Site Assessment & Survey	7/31/2017	Complete	N/A
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	5/31/2018 (delayed due to OHPO)
D.3 – Program Management	On-Going	On-Going	On-Going
<b>E – Hydraulic Improvements (Final Design)</b>			
E.1 – Site Assessment & Survey	9/22/2017	Coordination with OEPA complete; Results have been incorporated into the design package	N/A
E.2 – Preliminary Design Report	10/6/2017	Final report submitted on October 30 <sup>th</sup>	N/A
E.3 – Detailed Design	3/23/2018	Design iterations generally complete. 95% design package complete. Utility coordination on-going; MWCD comments from 95% submittal are being incorporated; Permit comments will likely impact detailed design completion.	5/31/2018 (delayed due to utility and permit coordination)
E.4 – NSRR Coordination	1/12/2018	Concept plan provided to NS, awaiting reply; Follow-up on-going	12/31/2018 (this effort will be prolonged due to lack of response from NS)

<b>Task</b>	<b>Proposed Timeline</b>	<b>Current Status</b>	<b>Anticipated Timeline</b>
E.5 – Permitting	9/30/2018	401/404 permit submitted; Coordination with USACE, OEPA, ODNR and USFWS on-going; Rule 27-13 permit application submitted; 404 public notice period complete; 401 public notice has been issued; PTI for sanitary sewers late May	9/30/2018
E.6 – Program Management	On-Going	Efforts are On-Going	On-Going
<b>F – Proof of Concept Update</b>			
F.1 – H&H Model Simulations	4/30/2018	Revised H&H basis report finalized and submitted; Hydrology model is calibrated after incorporating AWA data. Report being finalized describing updates and risk assessment.	4/30/2018
F.2 – Data Collection	2/28/2018	LiDAR data processing complete; Soil borings complete; Desktop review of available environmental and cultural resource documents underway and nearly complete. Report being developed describing review.	4/30/2018
F.3 – Concept Refinement	2/28/2018	Concept refinement is complete; Modified concepts have been screened through the hydrology model and were processed through the hydraulic model. Cost curves and benefits/impacts tables have been compiled.	5/31/2018 (delayed due to time required to complete hydrology model)
F.4 – Updated Economic Analysis	4/30/2018	Updated impacted parcel listing based upon recent purchases; Updated cost and benefit curves based upon current indices. Report being developed describing review.	5/31/2018
F.5 – Report Preparation	6/30/2018	Report being developed. Will incorporate reports from others as appendices.	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.**



Derek Dalton, P.E.  
Project Manager  
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

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Clark Lynn Army, General Manager

Date

<b>Invoice Number</b>	1358663
<b>Invoice Date</b>	May 18, 2018
<b>Purchase Order</b>	174316204
<b>Customer Number</b>	140260
<b>Project Number</b>	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

<b>Project</b>	<b>Hancock County Flood Diversion - Phase II Work Plan - Proof of Concept</b>		
Project Manager	Dalton, Derek D	Contract Upset	2,920,275.00
Current Invoice Total (USD)	3,877.00	Amount Billed to Date	2,748,895.86
		For Period Ending	<b>May 11, 2018</b>

**Top Task 401 Supplemental Task 1**

**Professional Services**

<b>Category/Employee</b>	<b>Current Hours</b>	<b>Rate</b>	<b>Current Amount</b>
Dalton, Derek D	1.00	151.00	151.00
Fleece, William C (Cody)	3.00	151.00	453.00
Bedross, Steven T	7.00	156.00	1,092.00
<b>Subtotal Professional Services</b>	<u>11.00</u>		<u>1,696.00</u>

**Subconsultants**

Mannik & Smith Group Inc.	2,181.00
<b>Subtotal Subconsultants</b>	<u>2,181.00</u>

Top Task Subtotal	Supplemental Task 1	3,877.00
<b>Total Fees &amp; Disbursements</b>		<u>3,877.00</u>
<b>INVOICE TOTAL (USD)</b>		<b>3,877.00</b>

**Due on Receipt**

<b>Invoice Number</b>	1358664
<b>Invoice Date</b>	May 18, 2018
<b>Purchase Order</b>	174316204
<b>Customer Number</b>	140260
<b>Project Number</b>	174316204

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<b>Project</b>	<b>Hancock County Flood Diversion - Phase II Work Plan - Proof of Concept</b>		
Project Manager	Dalton, Derek D	Contract Upset	2,920,275.00
Current Invoice Total (USD)	6,790.00	Amount Billed to Date	2,755,685.86
		For Period Ending	<b>May 11, 2018</b>

<b>Top Task</b>	<b>402</b>	<b>Hyd. Imps. Ph 1</b>		
<b>Professional Services</b>				
<b>Category/Employee</b>			<b>Current Hours</b>	<b>Rate</b>
		Hoff, Adam C	10.50	180.00
		<b>Subtotal Professional Services</b>	<u>10.50</u>	<u>1,890.00</u>
<b>Subconsultants</b>				
		Mannik & Smith Group Inc.		4,300.00
		Bockrath & Associates		600.00
		<b>Subtotal Subconsultants</b>		<u>4,900.00</u>
Top Task Subtotal	Hyd. Imps. Ph 1			6,790.00
		<b>Total Fees &amp; Disbursements</b>		<u>6,790.00</u>
		<b>INVOICE TOTAL (USD)</b>		<b>6,790.00</b>

**Due on Receipt**



<b>Invoice Number</b>	1358665
<b>Invoice Date</b>	May 18, 2018
<b>Purchase Order</b>	174316204
<b>Customer Number</b>	140260
<b>Project Number</b>	174316204

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Maumee Watershed Conservancy District  
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 1464 Pinehurst Drive  
 Defiance OH 43512  
 United States

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 13980 Collections Center Drive  
 Chicago IL 60693  
 United States

<b>Project</b>	<b>Hancock County Flood Diversion - Phase II Work Plan - Proof of Concept</b>		
Project Manager	Dalton, Derek D	Contract Upset	2,920,275.00
Current Invoice Total (USD)	16,970.43	Amount Billed to Date	2,772,656.29
		For Period Ending	<b>May 11, 2018</b>

**Top Task 403 Hydraulic Improvements Design**

Professional Services

Category/Employee	Current Hours	Rate	Current Amount
Johns, Curtis W	25.00	87.00	2,175.00
Taylor, Trana L	1.00	87.00	87.00
Price, Taylor Alexis	66.50	108.00	7,182.00
Gray, Michelle M (Shelly)	6.25	115.00	718.75
Scheibly, Jonathan F	1.00	129.00	129.00
Hayson, David T	4.50	137.00	616.50
Dalton, Derek D	16.00	151.00	2,416.00
Hoff, Adam C	19.00	180.00	3,420.00
<b>Subtotal Professional Services</b>	<u>139.25</u>		<u>16,744.25</u>

**Disbursements**

Direct - Expenses	226.18
<b>Subtotal Disbursements</b>	<u>226.18</u>

Top Task Subtotal	Hydraulic Improvements Design	16,970.43
<b>Total Fees &amp; Disbursements</b>		<u>16,970.43</u>
<b>INVOICE TOTAL (USD)</b>		<b>16,970.43</b>

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<b>Invoice Number</b>	1358666
<b>Invoice Date</b>	May 18, 2018
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<b>Project Number</b>	174316204

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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

<b>Project</b>	<b>Hancock County Flood Diversion - Phase II Work Plan - Proof of Concept</b>		
Project Manager	Dalton, Derek D	Contract Upset	2,920,275.00
Current Invoice Total (USD)	63,158.56	Amount Billed to Date	2,835,814.85
		For Period Ending	<b>May 11, 2018</b>

**Top Task**                      **404**                      **POC Update**

**Professional Services**

<b>Category/Employee</b>	<b>Current Hours</b>	<b>Rate</b>	<b>Current Amount</b>
Seamands, Joseph T (Joey)	44.75	108.00	4,833.00
Sprague, Adam Carl	24.50	115.00	2,817.50
Hayson, David T	76.25	137.00	10,446.25
Hoffman, Daniel E	0.50	137.00	68.50
Serazin, Hallie J	0.50	151.00	75.50
<b>Subtotal Professional Services</b>	<u>146.50</u>		<u>18,240.75</u>

**Disbursements**

Direct - Expenses	17.81
<b>Subtotal Disbursements</b>	<u>17.81</u>

**Subconsultants**

Kucera International Inc.	23,760.00
Jack Faucett Associates, Inc.	20,840.00
Storm Water Engineering LLC	300.00
<b>Subtotal Subconsultants</b>	<u>44,900.00</u>

Top Task Subtotal	POC Update	63,158.56
<b>Total Fees &amp; Disbursements</b>		<u>63,158.56</u>
<b>INVOICE TOTAL (USD)</b>		<b>63,158.56</b>

**Due on Receipt**

**Invoice**



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

April 20, 2018  
 Project No: S3410003  
 Invoice No: MJ0012

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 March 30, 2018**

**Professional Personnel**

	<b>Hours</b>	<b>Rate</b>	<b>Amount</b>	
Administrative Assistant II				
Braxton, Karen	.50	45.00	22.50	
Cultural Resource Specialist III				
Hayfield, Kate	25.25	65.00	1,641.25	
Hershberger, Daniel	2.50	65.00	162.50	
Cultural Resource Specialist IV				
Chidester, Robert	38.75	77.00	2,983.75	
Cultural Resource Specialist VI				
Johnson, Maura	7.50	109.00	817.50	
Environmental Scientist VII				
Momenee, Michael	.75	115.00	86.25	
Technician VI				
Agosti, Bryan	7.75	99.00	767.25	
<b>Totals</b>	<b>83.00</b>		<b>6,481.00</b>	
<b>Total Labor</b>				<b>6,481.00</b>
		<b>Total this Invoice</b>		<b>\$6,481.00</b>



**BILL TO**  
 Stantec Consulting Services  
 Inc.  
 4540 Heatherdowns Boulevard  
 Suite A  
 Toledo OH 43614-3100 US

**INVOICE #** 15379  
**DATE** 04/16/2018  
**DUE DATE** 05/16/2018  
**TERMS** Net 30

ACTIVITY	AMOUNT
<b>Billable Time</b>	
Surveying-Drawing-GB	131.25
Surveying-Field-JK	468.75
16-211 Hancock County Flood Mitigation	
BALANCE DUE	<b>\$600.00</b>
\$600 - staking proposed relocated walking path near Performance R & D Property	

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

PHONE (419) 523-5789  
 WWW.BOCKRATH-ES.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: April 20, 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 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: March 1 - April 20, 2018

JFA Project No.: 783-1&2

Invoice No.: 14

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  
 \$219,670.00 Total NTE

Item #	Staff	This Period	Rate	Current Amount Due	Cumulative Amount Billed
1	Michael Lawrence	16	\$ 230.00	<b>\$3,680.00</b>	\$41,630.00
2	Jon Skolnik	42	\$ 200.00	<b>\$8,400.00</b>	\$72,400.00
3	RA - Ira Silvergielt & Mathies Wahner	28	\$ 120.00	<b>\$3,360.00</b>	\$72,600.00
4	Data Analyst - Alan Hachey	36	\$ 150.00	<b>\$5,400.00</b>	\$20,100.00
	Misc Costs Implan Model				\$1,470.00
	Totals			\$20,840.00	\$203,180.00
<b>TOTAL AMOUNT DUE</b>				<b>\$20,840.00</b>	

Balance Unbilled \$16,490.00

**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

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

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

# Invoice

DATE	INVOICE #
5/4/2018	23840REV

**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	4/26/2018	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	FINAL HYDRO / LIDAR DTM DATA PRODUCTION AND DELIVERY (AREA 5) 79.2 SQUARE MILES @ \$300	23,760.00	23,760.00
		LUCAS COUNTY SALES TAX	7.00%	0.00

CORPORATE ACCOUNTING OFFICE 1-800-745-8237	<b>Total</b> USD 23,760.00
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Stantec: Phase I Hydraulic Improvements



MSG WORK DETAIL: FEBRUARY 23 – MARCH 30, 2018

INVOICE NO.: MJ0012

- Project management – General project/budget/staff oversight. Forward public notice information to project team.
- Report – Provide report copy and respond to questions from SHPO re. Phase 1 report. .
- Brownfield/Environmental – Discuss Rule 13 and solid waste findings with Client. Internal discussion re. characteristics of materials and material handling specs.
- Literature review – Finalize and submit AOC lit review letter report.

# Storm Water Engineering LLC



## Invoice

<b>Invoice No.:</b> 2018203  <b>Customer ID:</b> Stantec Consulting Services, Inc		April 20, 2018	
	<b>Description</b>	<b>Date</b>	<b>Hours</b>
	Bi-Weekly Conference Call	03/02/18	1.0
	Bi-Weekly Conference Call	03/30/18	1.0
	<b>Total Hours</b>		<b>2.0</b>

Principal	2.0 Hours	\$150.00	\$ 300.00
Mileage	0 Miles		\$0.00
Expenses		\$ 0.50	
<b>Total Invoice</b>			<b>\$300.00</b>

PHONE

7061 Corporate Way Ste 105,  
Centerville, OH 45459-8901

937 723 - 0802