



Bassett Creek WMO  
7800 Golden Valley Road  
Golden Valley, MN 55427

Page # 1  
Invoice # 23270051-2015-6  
Project # 23/27-0051  
Client # 59  
August 7, 2015

Invoice of Account with  
BARR ENGINEERING COMPANY

For professional services during the period of  
June 27, 2015 through July 31, 2015

**ENGINEERING**

TECHNICAL SERVICES

Communications with administrator; review of historical files, and communications with Golden Valley staff regarding Pondwood development at Spring Lake; prepare draft MDNR Flood Damage Reduction grant application for XP-SWMM model update funding, and communications with MDNR staff regarding draft application and potential FDR funding for XP SWMM update; communications with MDNR staff regarding potential FEMA funding for XP SWMM modeling; communications with administrator regarding Plan look back, John O’Toole’s service on the commission, change-over to MIDS reviews, Corps of Engineers communications, and BWSR and Hennepin County meetings; review BCWMC wetland fees; provide statute information to administrator regarding maintenance levies; communications with administrator and Commissioner Welch regarding Bassett Creek sedimentation issue; review Hennepin County letter regarding availability of pictometry data and communications with administrator and internal staff; communications with administrator regarding local share for BWSR CWF grant; and review FEMA letter responding to BCWMC comments on flood insurance maps and internal follow-up.

James P. Herbert, Principal Engineer/Scientist 4.5 hours @ \$175.00 per hour.....	\$ 787.50
Karen L. Chandler, Consultant/Advisor 14.5 hours @ \$160.00 per hour.....	\$ 2,320.00
Benjamin A. Sheets, Consultant/Advisor 1.0 hours @ \$165.00 per hour.....	\$ 165.00
Jennifer A. Koehler, Engineer/Scientist/Specialist II 2.3 hours @ \$120.00 per hour.....	\$ 276.00
<i>Subtotal, Technical Services.....</i>	<i>\$ 3,548.50</i>

MONTHLY MEETING PREPARATION

Communications/coordination with administrator regarding draft/final agenda and meeting packet for July 2015 meeting; review/edit draft June meeting minutes; prepare for July Commission meeting,

including setting up and attending pre-meeting with Chair de Lambert and administrator to review meeting agenda; provide grant tracking information to administrator; review administrator's draft memo regarding MDNR evaluation of stream restoration projects; provide XP SWMM update to administrator for agenda memo; communications with administrator regarding BWSR CWF grants and BCWMC 2016 projects; coordination with recorder; and communications with administrator regarding follow-up tasks from July Commission meeting and upcoming meeting agenda items.

James P. Herbert, Principal Engineer/Scientist 10.7 hours @ \$175.00 per hour.....	\$ 1,872.50
Karen L. Chandler, Consultant/Advisor 18.1 hours @ \$160.00 per hour.....	\$ 2,896.00
Technicians/Administrative .....	\$ 427.50
Expenses (Mileage/Webex) .....	\$ 25.37
<i>Subtotal, Monthly Meeting Preparation .....</i>	<i>\$ 5,221.37</i>

CHANNEL MAINTENANCE FUND

Communications with administrator and internal staff regarding use of channel maintenance funds for North Branch work in Crystal; and review past policy documents.

Karen L. Chandler, Consultant/Advisor 2.4 hours @ \$160.00 per hour.....	\$ 384.00
<i>Subtotal, Channel Maintenance Fund .....</i>	<i>\$ 384.00</i>

TAC PREPARATION

Review/edit TAC memo for July Commission meeting.

Karen L. Chandler, Consultant/Advisor 1.7 hours @ \$160.00 per hour.....	\$ 192.00
Gregory J. Wilson, Engineer/Scientist/Specialist III 1.0 hours @ \$150.00 per hour.....	\$ 150.00
<i>Subtotal, TAC Preparation .....</i>	<i>\$ 422.00</i>
<b><i>Subtotal Technical Services .....</i></b>	<b><i>\$ 9,575.87</i></b>

PLAT REVIEW

CenterPoint Energy (2015-02)

Review revised grading, drainage, and erosion control plans for project; and prepare and send approval letter to city staff.

James P. Herbert, Principal Engineer Scientist 1.0 hours @ \$175.00 per hour.....	\$ 175.00
Candice M. Kantor, Engineer/Scientist/Specialist II 1.0 hours @ \$95.00 per hour .....	\$ 95.00
<i>Subtotal, CenterPoint Energy .....</i>	<i>\$ 270.00</i>

Vicksburg Ridge (2015-03)

Project close-out and filing.

Technicians/Administrative .....	\$	13.00
<i>Subtotal, Vicksburg Ridge .....</i>	<i>\$</i>	<i>13.00</i>

France-Indiana Ave Reconstruction (2015-05)

Review revised grading, drainage, and erosion control plans for project; coordinate with Robbinsdale staff, and prepare and send approval letter to city staff.

James P. Herbert, Principal Engineer Scientist 2.1 hours @ \$175.00 per hour.....	\$	367.50
Candice M. Kantor, Engineer/Scientist/Specialist II 1.3 hours @ \$95.00 per hour .....	\$	123.50
<i>Subtotal, France-Indiana Ave Reconstruction.....</i>	<i>\$</i>	<i>491.00</i>

26<sup>th</sup> Avenue Development-Minneapolis (2015-11)

Review revised grading, drainage, and erosion control plans for project; coordinate with applicant, and prepare and send approval letter to city staff.

James P. Herbert, Principal Engineer Scientist 0.5 hours @ \$175.00 per hour.....	\$	87.50
Candice M. Kantor, Engineer/Scientist/Specialist II 0.7 hours @ \$95.00 per hour .....	\$	66.50
<i>Subtotal, 26th Avenue Development-Mpls.....</i>	<i>\$</i>	<i>154.00</i>

Sandburg Athletic Field Improvements (2015-12)

Review revised grading, drainage, and erosion control plans for project; and prepare and send approval letter to city staff.

James P. Herbert, Principal Engineer Scientist 0.5 hours @ \$175.00 per hour.....	\$	87.50
Candice M. Kantor, Engineer/Scientist/Specialist II 1.0 hours @ \$95.00 per hour .....	\$	95.00
<i>Subtotal, Sandburg Athletic Field Improvements .....</i>	<i>\$</i>	<i>182.50</i>

Plymouth Ice Center/Life Time Parking Lot (2015-14)

Communications with applicant regarding review comments.

James P. Herbert, Principal Engineer Scientist 0.5 hours @ \$175.00 per hour.....	\$	87.50
<i>Subtotal, Plymouth Ice Ctr/Life Time Parking Lot .....</i>	<i>\$</i>	<i>87.50</i>

King of Grace Lutheran Church Site (2015-15)

Review grading, drainage, and erosion control plans (and revised plans) for project; and prepare and send approval letter to city staff.

James P. Herbert, Principal Engineer Scientist 1.8 hours @ \$175.00 per hour.....	\$ 315.00
Candice M. Kantor, Engineer/Scientist/Specialist II 2.4 hours @ \$95.00 per hour .....	\$ <u>228.00</u>
<i>Subtotal, King of Grace Lutheran Church Site.....</i>	<i>\$ 543.00</i>

Mini-Hops Gymnastics (2015-16)

Review grading, drainage, and erosion control plans (and revised plans) for project; coordination with applicant, and prepare and send approval letter to city staff.

James P. Herbert, Principal Engineer Scientist 2.0 hours @ \$175.00 per hour.....	\$ 350.00
Candice M. Kantor, Engineer/Scientist/Specialist II 4.1 hours @ \$95.00 per hour .....	\$ <u>389.50</u>
<i>Subtotal, Mini Hops Gymnastics.....</i>	<i>\$ 739.50</i>

Jet 55 Corporate Center (2015-17)

Review grading, drainage, and erosion control plans for project; and prepare and send approval letter to city staff.

James P. Herbert, Principal Engineer Scientist 1.0 hours @ \$175.00 per hour.....	\$ 175.00
Candice M. Kantor, Engineer/Scientist/Specialist II 2.7 hours @ \$95.00 per hour .....	\$ <u>256.50</u>
<i>Subtotal, Jet 55 Corporate Center .....</i>	<i>\$ 431.50</i>

Liberty Crossing Development (2015-18)

Review grading, drainage, and erosion control plans for project, including review of sand filter requirements in MN Stormwater Manual; coordination with applicant and Golden Valley staff, and prepare and send approval letter to city staff.

James P. Herbert, Principal Engineer Scientist 3.2 hours @ \$175.00 per hour.....	\$ 560.00
Karen L. Chandler, Consultant/Advisor 0.5 hours @ \$160.00 per hour.....	\$ 80.00
Candice M. Kantor, Engineer/Scientist/Specialist II 4.7 hours @ \$95.00 per hour .....	\$ <u>446.50</u>
<i>Subtotal, Liberty Crossing Development.....</i>	<i>\$ 1,086.50</i>

Parking Lot Exp 7724 Winpark Drive (2015-19)

Review grading, drainage, and erosion control plans for project; coordination with applicant and prepare and send approval letter to city staff.

James P. Herbert, Principal Engineer Scientist 1.5 hours @ \$175.00 per hour.....	\$ 262.50
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Candice M. Kantor, Engineer/Scientist/Specialist II 3.2 hours @ \$95.00 per hour .....	\$ 304.00
Technicians/Administrative .....	\$ 42.50
<i>Subtotal, Parking Lot Exp, 7724 Winpark Drive .....</i>	<i>\$ 609.00</i>
<b><i>Subtotal Plat Review .....</i></b>	<b><i>\$ 4,607.50</i></b>

NON-FEE REVIEWS AND PRELIMINARY COMMUNICATIONS

PRELIMINARY COMMUNICATIONS

Communications with developer's consultant regarding proposed project and directed them to contact City; and coordination with Hennepin County regarding status of H&H modeling and proposed Bassett Creek crossing at Douglas Drive in Golden Valley.

James P. Herbert, Principal Engineer/Scientist 1.5 hours @ \$175.00 per hour.....	\$ 262.50
<i>Subtotal, Plat Review – Preliminary Communications .....</i>	<i>\$ 262.50</i>

NON-FEE REVIEWS

BLUE LINE LRT/BOTTINEAU TRANSITWAY

Prepare for and attend June 30 Blue Line LRT meeting regarding floodplain, wetland and stormwater concerns.

Karen L. Chandler, Consultant/Advisor 4.1 hours @ \$160.00 per hour.....	\$ 656.00
Expenses (Mileage) .....	\$ 16.68
<i>Subtotal, Blue Line LRT/Bottineau Transitway .....</i>	<i>\$ 672.68</i>

BLUE LINE LRT WCA LGU ADMIN

Crystal

Project set-up, review preliminary wetland delineation data submittal and conduct June 29 site review.

Karen S. Wold, Engineer/Scientist/Specialist II 0.2 hours @ \$115.00 per hour.....	\$ 23.00
Technicians/Administrative .....	\$ 13.00
<i>Subtotal, Crystal.....</i>	<i>\$ 36.00</i>

Golden Valley

Project set-up, review preliminary wetland delineation data submittal; conduct June 29 site review; and communications with Blue Line LRT wetland consultant requesting edits and additional information for wetland delineation.

Karen S. Wold, Engineer/Scientist/Specialist II 4.4 hours @ \$115.00 per hour.....	\$ 506.00
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Expenses (Mileage) .....\$ 12.08  
*Subtotal, Golden Valley*.....\$ 518.08

Minneapolis

Project set-up, review preliminary wetland delineation data submittal; conduct June 29 site review; and communications with Blue Line LRT wetland consultant requesting edits and additional information for wetland delineation.

Karen S. Wold, Engineer/Scientist/Specialist II  
1.8 hours @ \$115.00 per hour.....\$ 207.00  
*Subtotal, Minneapolis*.....\$ 207.00

Robbinsdale

Project set-up, review preliminary wetland delineation data submittal; conduct June 29 site review; and communications with Blue Line LRT wetland consultant requesting edits and additional information for wetland delineation.

Karen S. Wold, Engineer/Scientist/Specialist II  
2.4 hours @ \$115.00 per hour.....\$ 276.00  
*Subtotal, Robbinsdale*.....\$ 276.00  
*Total Blue Line LRT WCA LGU Admin*.....\$ 1,037.08

SW LRT

Communications with Minneapolis staff.

James P. Herbert, Principal Engineer Scientist  
0.5 hours @ \$175.00 per hour.....\$ 87.50  
*Subtotal, SW LRT* .....\$ 87.50  
***Subtotal Non-Fee Reviews*** .....\$ **1,797.26**  
***Subtotal Non-Fee Review and Preliminary Communication*** .....\$ **2,059.76**

COMMISSION AND TAC MEETINGS

Attend July 16 Commission meeting.

Karen L. Chandler, Consultant/Advisor  
3.5 hours @ \$160.00 per hour.....\$ 560.00  
*Subtotal, Commission and TAC Meetings* .....\$ 560.00

SURVEYS & STUDIES

FLOOD CONTROL PROJECT REHAB AND RESPONSIBILITIES

Prepare document summarizing issues, considerations and next steps and internal meeting to discuss; review O&M manual and drawings regarding Flood Control Project elevation datum; communications with Corps of Engineers staff regarding elevation datum letter and funding of Flood Control Project maintenance, repairs and replacement, including need for project inspections; and communications with Minneapolis staff and commission counsel.

Leonard J. Kremer, Principal Engineer/Scientist 3.0 hours @ \$185.00 per hour.....	\$ 555.00
James P. Herbert, Principal Engineer Scientist 6.0 hours @ \$175.00 per hour.....	\$ 1,050.00
Karen L. Chandler, Consultant/Advisor 7.9 hours @ \$160.00 per hour.....	\$ <u>1,264.00</u>
<i>Subtotal, Flood Contract Proj Rehab &amp; Responsibilities.....</i>	<i>\$ 2,869.00</i>
<i>Subtotal, Surveys &amp; Studies.....</i>	<i>\$ 2,869.00</i>

WATER QUALITY/MONITORING

Assemble/prepare water quality information for new website; follow-up on validity of Sweeney Lake microcystin testing kit; communications with administrator regarding Parkers Lake aquatic plants and algae; follow-up and communications with administrator regarding MCES Inflow and Infiltration program implications for bacteria TMDL implementation planning; follow-up on bacteria TMDL implementation plan stakeholder/Bassett TAC meeting; and provide information to Golden Valley staff regarding exotic snails in stormwater pond; Westwood Lake Monitoring: prepare for and conduct July 15 water quality monitoring; QA/QC review of laboratory report and invoice; and communications with administrator, aquatic plant survey subconsultant, BCWMC commissioners, city staff, Westwood Nature Center staff and DNR staff regarding discovery of rare plant species (*L. barbatus*) in Westwood Lake and to set up/coordinate August 24 site meeting to view plant species; Stream Biotic Index Monitoring: review GIS reach maps, and internal discussions regarding Sweeney Lake branch biotic index monitoring location.

Henry M. Runke, Principal Engineer/Scientist 1.5 hours @ \$175.00 per hour.....	\$ 262.50
Karen L. Chandler, Consultant/Advisor 2.4 hours @ \$160.00 per hour.....	\$ 384.00
Gregory J. Wilson, Engineer/Scientist/Specialist III 6.5 hours @ \$150.00 per hour.....	\$ 975.00
Margaret R. Rattei, Engineer/Scientist/Specialist III 6.7 hours @ \$125.00 per hour.....	\$ 837.50
Sterling G. Williams, Engineer/Scientist/Specialist III 4.0 hours @ \$125.00 per hour.....	\$ 500.00
Technicians/Administrative .....	\$ 635.00
Expenses (Pace Analytical/mileage/2WD vehicle/GPS/canoe/ filtration apparatus/WQ meter) .....	\$ <u>294.11</u>
<i>Subtotal, Water Quality/Monitoring.....</i>	<i>\$ 3,888.11</i>

WATER QUANTITY

Measure and review lake level elevations as part of the lake-gauging program.

Technicians/Administrative .....	\$ 1,080.00
Expenses (Mileage/2WD vehicle).....	\$ <u>164.70</u>
<i>Subtotal, Water Quantity .....</i>	<i>\$ 1,244.70</i>

**TOTAL ENGINEERING .....\$ 24,804.94**

**SECRETARIAL SERVICES**

SECRETARIAL SERVICES EXPENSES

Expenses for postage.

Expenses (Postage).....\$ 4.32

**TOTAL SECRETARIAL SERVICES EXPENSES.....\$ 4.32**

**PLANNING**

NEXT GENERATION PLAN

Prepare draft responses to City of Minneapolis, MnDOT, and MN Department of Agriculture comments on 90-day draft and submit to administrator and chair de Lambert for review; communications with administrator, Chair de Lambert and BWSR staff regarding comments/responses and BWSR plan approval process; and edit presentation for BWSR subcommittee meeting.

Karen L. Chandler, Consultant/Advisor  
2.2 hours @ \$160.00 per hour.....\$ 352.00

Sterling G. Williams, Engineer/Scientist/Specialist III  
10.9 hours @ \$125.00 per hour.....\$ 1,362.50

*Subtotal, Next Generation Plan* .....\$ 1,714.50

**TOTAL PLANNING (Next Generation Plan) .....\$ 1,714.50**

**PLANNING (Funded through Flood Control Project Long-term Maintenance Funds)**

**TOTAL PLANNING (Maintenance Funds).....\$ 0.00**

**ANNUAL REPORT**

**TOTAL ANNUAL REPORT.....\$ 0.00**

**PUBLIC COMMUNICATIONS**

**TOTAL PUBLIC COMMUNICATIONS .....\$ 0.00**

**WEBSITE**

**TOTAL WEBSITE.....\$ 0.00**



**WATERSHED OUTLET MONITORING PROGRAM (WOMP)**

**TOTAL WOMP .....\$ 0.00**

**CAPITAL IMPROVEMENT PROJECTS (Funded through tax levy)**

HONEYWELL POND EXPANSION (2016) (BC-4)

Attend July 13 meeting with administrator, Golden Valley staff, and city’s consultant regarding project design and schedule; review of final feasibility report per request from administrator; communications with administrator and Golden Valley staff; and prepare and provide figures to Hennepin County staff for use in August 4 committee presentation.

James P. Herbert, Principal Engineer Scientist 1.3 hours @ \$175.00 per hour.....	\$ 227.50
Karen L. Chandler, Consultant/Advisor 2.7 hours @ \$160.00 per hour.....	\$ 432.00
Jennifer A. Koehler, Engineer/Scientist/Specialist II 3.1 hours @ \$120.00 per hour.....	\$ 372.00
Joshua R. Vosejпка, Engineer/Scientist/Specialist I 0.8 hours @ \$75.00 per hour .....	\$ 60.00
Expenses (Mileage) .....	\$ 18.98
<i>Subtotal, Honeywell Pond Expansion .....</i>	<i>\$ 1,110.48</i>

NORTHWOOD LAKE STORMWATER QUALITY IMPROVEMENTS PROJECTS (2016) (NL-1)

Assist administrator in preparing Northwood Lake CWP grant work plan; prepare and provide figures to Hennepin County staff for use in August 4 committee presentation.

James P. Herbert, Principal Engineer Scientist 1.3 hours @ \$175.00 per hour.....	\$ 227.50
Gregory J. Wilson, Engineer/Scientist/Specialist III 3.5 hours @ \$150.00 per hour.....	\$ 525.00
Joshua R. Vosejпка, Engineer/Scientist/Specialist I 0.5 hours @ \$75.00 per hour .....	\$ 37.50
<i>Subtotal, Northwood Lake Improvement Projects.....</i>	<i>\$ 790.00</i>

**TOTAL CAPITAL IMPROVEMENTS PROJECTS (Tax Levy) .....\$ 1,900.48**

**CAPITAL IMPROVEMENT PROJECTS (Funded through Flood Control Project Long-term Maintenance Funds)**

**TOTAL CAPITAL IMPROVEMENT PROJECTS  
 (Maintenance Funds) .....\$ 0.00**

<b>TMDL WORK</b>
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TMDL IMPLEMENTATION REPORTING

P8 Model Update: updates to Kilmer Creek subwatershed.

Gregory J. Wilson, Engineer/Scientist/Specialist III 1.0 hours @ \$150.00 per hour.....	\$ 150.00
Joshua R. Vosejpka, Engineer/Scientist/Specialist I 0.7 hours @ \$75.00 per hour .....	\$ <u>52.50</u>
<i>Subtotal, TMDL Studies.....</i>	\$ 202.50
<b>TOTAL TMDL STUDIES .....</b>	<b>\$ 202.50</b>

<b>XP-SWMM PHASE II</b>
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XP-SWMM PHASE II

Plymouth Creek Modeling: internal kick-off meeting and coordination; set up GIS directories, manage GIS data, and process elevation information in GIS; compile base map information; prepare and review initial XP-SWMM Node/Link placement for Parkers Lake, Parkers East, Turtle Lake, and Plymouth Creek East, Plymouth Creek West, and Plymouth Creek Central; missing data analysis; and prepare figures for Plymouth, Minnetonka, New Hope; Medicine Lake Direct Modeling: internal kick-off meeting and coordination; set up GIS directories; compile base map information; prepare and review initial XP-SWMM Node/Link placement for Medicine Lake Northeast; Crane Lake, Medicine Lake Direct; Medicine Lake South, and Medicine Lake North; missing data analysis; and prepare figures for Plymouth, Minnetonka, and New Hope; Flow Monitoring North Branch Bassett Creek: site visits to download and review data, perform maintenance, including manual depth check, clear debris from sensor, and check/switch out battery; graph and review stage data; and perform flow measurement for rating curve.

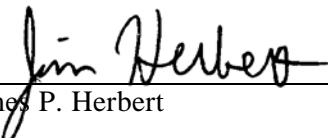
Gregory J. Wilson, Engineer/Scientist/Specialist III 1.1 hours @ \$150.00 per hour.....	\$ 165.00
Jennifer A. Koehler, Engineer/Scientist/Specialist II 5.5 hours @ \$120.00 per hour.....	\$ 660.00
Greg D. Fransen, Engineer/Scientist/Specialist II 0.4 hours @ \$105.00 per hour.....	\$ 42.00
Christopher J. Bonick, Engineer/Scientist/Specialist II 13.8 hours @ \$115.00 per hour.....	\$ 1,587.00
Joshua R. Vosejpka, Engineer/Scientist/Specialist I 2.0 hours @ \$75.00 per hour .....	\$ 150.00
Ross S. Mullen, Engineer/Scientist/Specialist I 43.8 hours @ \$85.00 per hour.....	\$ 3,723.00
Lulu Fang, Engineer/Scientist/Specialist I 75.5 hours @ \$75.00 per hour.....	\$ 5,662.50

Technicians/Administrative .....	\$ 678.00
Expenses (Mileage/2WD vehicle).....	\$ <u>155.20</u>
<i>Subtotal, XP-SWMM Phase II</i> .....	\$ 12,822.70
<b>TOTAL XP-SWMM PHASE II</b> .....	\$ <b>12,822.70</b>

<b>SUMMARY TOTALS</b>
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<b>Total Engineering</b> .....	\$ <b>24,804.94</b>
<b>Total Secretarial Services Expenses</b> .....	\$ <b>4.32</b>
<b>Total Planning (Next Generation Plan)</b> .....	\$ <b>1,714.50</b>
<b>Total Planning (Maintenance Funds)</b> .....	\$ <b>0.00</b>
<b>Total Annual Report/Website/Public Communications</b> .....	\$ <b>0.00</b>
<b>Total WOMP</b> .....	\$ <b>0.00</b>
<b>Total Capital Improvement Projects (Tax Levy)</b> .....	\$ <b>1,900.48</b>
<b>Total Capital Improvement Projects (Maintenance Funds)</b> .....	\$ <b>0.00</b>
<b>Total TMDL Work</b> .....	\$ <b>202.50</b>
<b>Total XP-SWMM Phase II</b> .....	\$ <b><u>12,822.70</u></b>
<b>TOTAL PAYABLE</b> .....	\$ <b>41,449.44</b>

Barr declares under the penalties of law that this account, claim or demand is just and that no part of it has been paid.

  
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James P. Herbert