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engineering and environmental consultants

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

Page # 1
Invoice # 23270051-2015-2
Project # 23/27-0051
Client # 59
April 3, 2015

Invoice of Account with
BARR ENGINEERING COMPANY

For professional services during the period of
February 28, 2015 through March 27, 2015

ENGINEERING

TECHNICAL SERVICES

Calls/emails to or from the Commissioners, administrator, watershed communities and interested citizens; coordinate with administrator regarding setting up meeting with city and MDNR staff regarding stream restoration project evaluations; communications with administrator regarding 2016 budgeting; prepare draft budget estimates for 2016 water quality programs; create maps for proposed 2016 aquatic plant surveys; prepare and send cost estimate request to subconsultant Berg for 2016 aquatic plant surveys; internal communications regarding allowable flood level increases in streams/stream projects/MDNR’s No-Rise certificate requirements; and communications with administrator and Crystal city staff regarding Heathers development project information.

| | |
|---|-------------|
| Karen L. Chandler, Consultant/Advisor | |
| 4.5 hours @ \$160.00 per hour..... | \$ 720.00 |
| Margaret R. Rattei, Engineer/Scientist/Specialist III | |
| 15.4 hours @ \$125.00 per hour..... | \$ 1,925.00 |
| Candice M. Kantor, Engineer/Scientist/Specialist II | |
| 0.2 hours @ \$95.00 per hour | \$ 19.00 |
| Amy R. Anderson, Engineer/Scientist/Specialist I | |
| 0.5 hours @ \$90.00 per hour | \$ 45.00 |
| Kelly A. Wild, Engineer/Scientist/Specialist I | |
| 2.0 hours @ \$85.00 per hour | \$ 170.00 |
| <i>Subtotal, Technical Services</i> | \$ 2,879.00 |

MONTHLY MEETING PREPARATION

Communications/coordination with administrator and recorder regarding draft/final agenda and meeting packet for March 2015 meeting; review/edit draft February meeting minutes; prepare for March Commission meeting, including setting up and attending pre-meeting conference call with Chair de Lambert and administrator to review meeting agenda; provide grant tracking information to administrator; communications with internal staff and administrator regarding follow-up tasks from

March Commission meeting and upcoming meeting agenda items; and compile/review past XP-SWMM information for use in updating Phase 2 modeling scope/cost.

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|--|--------------------|
| James P. Herbert, Principal Engineer/Scientist 4.5 hours @ \$175.00 per hour..... | \$ 787.50 |
| Karen L. Chandler, Consultant/Advisor 20.6 hours @ \$160.00 per hour..... | \$ 3,296.00 |
| Technicians/Administrative | \$ <u>350.50</u> |
| <i>Subtotal, Monthly Meeting Preparation</i> | <i>\$ 4,434.00</i> |

TAC PREPARATION

Prepare for March 5 TAC meeting, including developing flow chart regarding the BCWMC engineer's project review process, communications with administrator regarding 2017 - 2021 CIP projects, and communications with Golden Valley city staff; review/edit draft March TAC memo; communications with administrator regarding April TAC meeting agenda items and background information; and TAC packet mailing to commissioner.

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| James P. Herbert, Principal Engineer/Scientist 4.8 hours @ \$175.00 per hour..... | \$ 840.00 |
| Karen L. Chandler, Consultant/Advisor 3.6 hours @ \$160.00 per hour..... | \$ 576.00 |
| Technicians/Administrative | \$ 262.50 |
| Expenses (Postage)..... | \$ <u>3.50</u> |
| <i>Subtotal, TAC Preparation</i> | <i>\$ 1,682.00</i> |

Subtotal Technical Services.....\$ 8,995.00

PLAT REVIEW

CenterPoint Energy (2015-02)

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

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| James P. Herbert, Principal Engineer Scientist 1.2 hours @ \$175.00 per hour..... | \$ 210.00 |
| Candice M. Kantor, Engineer/Scientist/Specialist II 3.9 hours @ \$95.00 per hour | \$ <u>370.50</u> |
| <i>Subtotal, CenterPoint Energy</i> | <i>\$ 580.50</i> |

Vicksburg Ridge (2015-03)

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

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| James P. Herbert, Principal Engineer Scientist 1.2 hours @ \$175.00 per hour..... | \$ 210.00 |
| Candice M. Kantor, Engineer/Scientist/Specialist II 1.9 hours @ \$95.00 per hour | \$ <u>180.50</u> |
| <i>Subtotal, Vicksburg Ridge</i> | <i>\$ 390.50</i> |

Struther's Parkinson's Center (2015-04)

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

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| James P. Herbert, Principal Engineer Scientist 2.0 hours @ \$175.00 per hour..... | \$ 350.00 |
| Candice M. Kantor, Engineer/Scientist/Specialist II 5.7 hours @ \$95.00 per hour | \$ <u>541.50</u> |
| <i>Subtotal, Struther's Parkinson's Center.....</i> | <i>\$ 891.50</i> |

Plymouth Medical Center (2015-07)

Plat review set up for project.

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|--|---------------------------|
| Technicians/Administrative | \$ <u>42.50</u> |
| <i>Subtotal, Plymouth Medical Center</i> | <i>\$ 42.50</i> |
| <i>Subtotal Plat Review.....</i> | <i>\$ 1,905.00</i> |

NON-FEE REVIEWS AND PRELIMINARY COMMUNICATIONS

PRELIMINARY COMMUNICATIONS

Communications with consultant regarding proposed development along Bassett Creek at Glenwood Inglewood site in Minneapolis and the BCWMC's XP SWMM model; communications with consultant regarding Opus Parkers Lake North project and review past plans and correspondence files for developments near Niagara Lane/Polaris Lane/25th Ave N in Plymouth for upcoming submittal at the request of the city, scan plan sheets for developments in that area, and provide scanned plan sheets and information in e-mail to city staff; communications with applicant regarding 26th Avenue project in Minneapolis; communications with consultant regarding BCWMC questions (as directed by administrator); email to applicant regarding project in Golden Valley, including referral to city; and attend meeting with MnDOT staff, MnDOT's consultant and Golden Valley staff regarding proposed MnDOT Hwy 100 and Hwy 55 interchange project.

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| James P. Herbert, Principal Engineer/Scientist 3.5 hours @ \$175.00 per hour..... | \$ 612.50 |
| Karen L. Chandler, Consultant/Advisor 2.7 hours @ \$160.00 per hour..... | \$ 432.00 |
| Candice M. Kantor, Engineer/Scientist/Specialist II 2.9 hours @ \$95.00 per hour | \$ <u>275.50</u> |
| <i>Subtotal, Plat Review – Preliminary Communications</i> | <i>\$ 1,320.00</i> |

NON-FEE REVIEWS

Blue Line LRT/Bottineau Transitway

Prepare for and attend March 4 meeting with BLLRT consultants and Met Council staff regarding floodplain and model issues/questions; internal follow-up regarding HEC-2/HEC-RAS models and UNET model; respond to BLLRT consultant's questions regarding HEC-2/HEC-RAS and UNET models; and communications with BLLRT consultant.

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| Nancy J. Dent, Principal Engineer Scientist 0.5 hours @ \$190.00 per hour..... | \$ 95.00 |
| Karen L. Chandler, Consultant/Advisor 7.6 hours @ \$160.00 per hour..... | \$ 1,216.00 |
| Jennifer A. Koehler, Engineer/Scientist/Specialist II 12.0 hours @ \$120.00 per hour..... | \$ 1,440.00 |
| Jeffrey D. Weiss, Engineer/Scientist/Specialist II 2.1 hours @ \$120.00 per hour..... | \$ 252.00 |
| Expenses (Mileage) | \$ 16.68 |
| <i>Subtotal, Blue Line LRT/Bottineau Transitway</i> | <i>\$ 3,019.68</i> |

SW LRT

Preliminary review of project plans, including review of SW LRT impact to BCWMC boundary; communications and meeting with Met Council/SW LRT staff regarding SW LRT project plans, BCWMC requirements and tunnel; and prepare draft response to SW LRT comments for administrator.

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| James P. Herbert, Principal Engineer Scientist 5.0 hours @ \$175.00 per hour..... | \$ 875.00 |
| Karen L. Chandler, Consultant/Advisor 0.3 hours @ \$160.00 per hour..... | \$ 48.00 |
| Expenses (Mileage) | \$ 11.50 |
| <i>Subtotal, SW LRT</i> | <i>\$ 934.50</i> |

TH 55 – TH 100 Ramp Project (2015-06)

Plat review set up for project; preliminary review of project.

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|--|---------------------------|
| James P. Herbert, Principal Engineer Scientist 1.0 hours @ \$175.00 per hour..... | \$ 175.00 |
| Technicians/Administrative | \$ 71.50 |
| Expenses (B&W/Color Copies) | \$ 6.80 |
| <i>Subtotal, TH 55-TH 100 Ramp Project</i> | <i>\$ 253.30</i> |
| <i>Subtotal Non-Fee Reviews</i> | <i>\$ 4,207.48</i> |
| <i>Subtotal Non-Fee Review and Preliminary Communication</i> | <i>\$ 5,527.48</i> |

COMMISSION AND TAC MEETINGS

Attend March 5 TAC meeting, March 12 Plan Steering Committee meeting, March 19 Commission meeting, and March 23 Plan Steering Committee meeting.

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| James P. Herbert, Principal Engineer Scientist 3.0 hours @ \$175.00 per hour..... | \$ 525.00 |
| Karen L. Chandler, Consultant/Advisor 11.9 hours @ \$160.00 per hour | \$ 1,904.00 |
| Expenses (Mileage) | \$ 12.65 |
| <i>Subtotal, Commission and TAC Meetings</i> | <i>\$ 2,441.65</i> |

SURVEYS & STUDIES

REQUIREMENTS DOCUMENT REVISION

Revise Sections 1 – 5 of the Requirements Document to reflect new policies in draft watershed management plan; and provide document and background information to administrator for TAC meeting packet.

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| Henry M. Runke, Principal Engineer/Scientist 0.5 hours @ \$175.00 per hour..... | \$ 87.50 |
| Karen L. Chandler, Consultant/Advisor 4.8 hours @ \$160.00 per hour | \$ 768.00 |
| Candice M. Kantor, Engineer/Scientist/Specialist II 9.0 hours @ \$95.00 per hour | \$ 855.00 |
| Technicians/Administrative | \$ 350.00 |
| <i>Subtotal, Requirements Document Revision</i> | <i>\$ 2,060.50</i> |
| <i>Subtotal, Surveys & Studies.....</i> | <i>\$ 2,060.50</i> |

WATER QUALITY/MONITORING

Communications with administrator and MPCA staff regarding chloride TMDL watershed boundary, and provide information to MPCA staff; prepare for and attend March 10 meeting with MDNR, administrator and Golden Valley staff regarding Sweeney Lake aeration and MDNR permit; revise aquatic plant survey methods write-up to reflect use of the point intercept method; revise macroinvertebrate methods write-up to reflect current methodology; follow-up on commissioner question regarding use of CAMP data in water quality analyses; request 2014 Sweeney CAMP data from MCES; and look into options for water quality report formats.

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| Henry M. Runke, Principal Engineer/Scientist 1.5 hours @ \$175.00 per hour..... | \$ 262.50 |
| Karen L. Chandler, Consultant/Advisor 5.4 hours @ \$160.00 per hour..... | \$ 864.00 |
| Gregory J. Wilson, Engineer/Scientist/Specialist III 14.0 hours @ \$150.00 per hour..... | \$ 2,100.00 |
| Margaret R. Rattei, Engineer/Scientist/Specialist III 10.3 hours @ \$125.00 per hour..... | \$ 1,287.50 |

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|---|----|----------|
| Expenses (Mileage) | \$ | 46.01 |
| <i>Subtotal, Water Quality/Monitoring</i> | \$ | 4,560.01 |

WATER QUANTITY

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

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|---------------------------------------|----|--------|
| Technicians/Administrative | \$ | 360.00 |
| Expenses (Mileage/2WD vehicle)..... | \$ | 54.90 |
| <i>Subtotal, Water Quantity</i> | \$ | 414.90 |

TOTAL ENGINEERING\$ 25,904.54

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|-----------------------------|
| SECRETARIAL SERVICES |
|-----------------------------|

SECRETARIAL SERVICES EXPENSES

| | | |
|----------------|----|------|
| Expenses | \$ | 0.00 |
|----------------|----|------|

TOTAL SECRETARIAL SERVICES EXPENSES\$ 0.00

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|-----------------|
| PLANNING |
|-----------------|

NEXT GENERATION PLAN

Prepare draft responses to comments; revise Table 5-3 (CIP table) for March TAC meeting; prepare for and attend March 12 and March 23 Plan Steering Committee meetings; prepare schedule for remainder of planning process; review and edit March 12 PSC meeting notes; prepare memo for March 23 PSC meeting regarding priority water body selection criteria and proposed revisions to list of priority water bodies; review statutory requirements regarding small appropriations; revise the Plan document to reflect responses to comments; communications with Minneapolis staff regarding comments on draft Plan; and communications with administrator.

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|--|----|----------|
| Karen L. Chandler, Consultant/Advisor 14.2 hours @ \$160.00 per hour..... | \$ | 2,272.00 |
| Sterling G. Williams, Engineer/Scientist/Specialist III 25.7 hours @ \$125.00 per hour..... | \$ | 3,212.50 |
| Gregory J. Wilson, Engineer/Scientist/Specialist III 1.0 hours @ \$150.00 per hour..... | \$ | 150.00 |
| Technicians/Administrative | \$ | 45.00 |
| Expenses (Postage)..... | \$ | 2.38 |
| <i>Subtotal, Next Generation Plan</i> | \$ | 5,681.88 |

TOTAL PLANNING (Next Generation Plan)\$ 5,681.88

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)

WATERSHED OUTLET MONITORING PROGRAM (WOMP)

Meeting with MCES staff to discuss data needs and WOMP program assessment.

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|---|-----------|--------------|
| Karen L. Chandler, Consultant/Advisor | | |
| 0.2 hours @ \$160.00 per hour | \$ | 32.00 |
| Christopher J. Bonick, Engineer/Scientist/Specialist II | | |
| 0.5 hours @ \$115.00 per hour..... | \$ | 57.50 |
| <i>Subtotal, Watershed Outlet Monitoring Program.....</i> | <i>\$</i> | <i>89.50</i> |
| TOTAL WOMP | \$ | 89.50 |

CAPITAL IMPROVEMENT PROJECTS (Funded through tax levy)

TWIN LAKE ALUM TREATMENT PROJECT (TW-2)

Review contract documents and other materials in preparation for March Commission meeting; and provide water quality and feasibility study information for Golden Valley’s Twin Lake public meeting.

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|--|-----------|---------------|
| Karen L. Chandler, Consultant/Advisor | | |
| 2.3 hours @ \$160.00 per hour | \$ | 368.00 |
| <i>Subtotal, Twin Lake Alum Treatment Project.....</i> | <i>\$</i> | <i>368.00</i> |

MAIN STEM: 10TH AVENUE-DULUTH STREET (2015CR)

Review 50% plan set and compare to feasibility study; prepare memo for March Commission meeting regarding 50% plan review; prepare and send conditional approval letter to city staff; and coordination and communications with city staff regarding meeting with city staff and city's consultant.

| | | |
|--|----|-----------------|
| James P. Herbert, Principal Engineer Scientist 1.0 hours @ \$175.00 per hour..... | \$ | 175.00 |
| Karen L. Chandler, Consultant/Advisor 10.9 hours @ \$160.00 per hour..... | \$ | 1,744.00 |
| Jeffrey D. Weiss, Engineer/Scientist/Specialist II 1.5 hours @ \$120.00 per hour..... | \$ | 180.00 |
| Peter J. Hinck, Engineer/Scientist/Specialist II 6.3 hours @ \$120.00 per hour..... | \$ | <u>756.00</u> |
| <i>Subtotal, Main Stem: 10th Ave – Duluth Street</i> | \$ | <i>2,855.00</i> |

NORTHWOOD LAKE IMPROVEMENT PROJECTS (2016) (NL-1)

Assist administrator in preparing Clean Water Partnership grant application for the Northwood Lake improvement project; and communications with administrator regarding grant application.

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| Karen L. Chandler, Consultant/Advisor 1.8 hours @ \$160.00 per hour..... | \$ | 288.00 |
| Gregory J. Wilson, Engineer/Scientist/Specialist III 4.6 hours @ \$150.00 per hour..... | \$ | <u>690.00</u> |
| <i>Subtotal, Northwood Lake Improvement Projects.....</i> | \$ | <i>978.00</i> |

TOTAL CAPITAL IMPROVEMENTS PROJECTS (Tax Levy)\$ 4,201.00

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| CAPITAL IMPROVEMENT PROJECTS (Funded through Flood Control Project Long-term Maintenance Funds) |
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**TOTAL CAPITAL IMPROVEMENT PROJECTS
 (Maintenance Funds)\$ 0.00**

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| TMDL WORK |
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TMDL IMPLEMENTATION REPORTING

P8 Model Update: Watershed delineation updates in GIS.

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|---|-----------|---------------|
| Joshua R. Vosejпка, Engineer/Scientist/Specialist I 4.3 hours @ \$75.00 per hour | \$ | <u>322.50</u> |
| <i>Subtotal, TMDL Studies.....</i> | \$ | <i>322.50</i> |
| TOTAL TMDL STUDIES | \$ | 322.50 |

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| SUMMARY TOTALS |
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|---|----------------------|
| Total Engineering | \$ 25,904 .54 |
| Total Secretarial Services Expenses | \$ 0.00 |
| Total Planning (Next Generation Plan) | \$ 5,681.88 |
| Total Planning (Maintenance Funds) | \$ 0.00 |
| Total Annual Report/Website/Public Communications | \$ 0.00 |
| Total WOMP | \$ 89.50 |
| Total Capital Improvement Projects (Tax Levy) | \$ 4,201.00 |
| Total Capital Improvement Projects (Maintenance Funds) | \$ 0.00 |
| Total TMDL Studies | \$ 322.50 |
| TOTAL PAYABLE | \$ 36,199.42 |

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



James P. Herbert