



Mr. Jim de Lambert  
Bassett Creek Watershed Management Commission  
7800 Golden Valley Road  
Golden Valley, MN 55427

Page # 1  
Invoice # 23270051-2018-10  
Project # 23/27-0051  
Client # 59  
December 7, 2018

Invoice of Account with  
BARR ENGINEERING COMPANY

For professional services during the period of  
October 27, 2018 through November 30, 2018

**ENGINEERING**

TECHNICAL SERVICES

Prepare final summary of Administrative Committee staff evaluation comments and provide to Chair de Lambert; provide North Branch floodplain elevations to Crystal staff; communications with administrator regarding watershed-based funding; communications with administrator and internal staff regarding Hennepin County pictometry contract renewal; communications with administrator regarding status of local water management plan reviews; communications with internal staff regarding wetland monitoring policy; and communications with administrator regarding status of projects.

|  |                    |
|--|--------------------|
| Karen L. Chandler, Principal Engineer/Scientist  |                    |
| 6.0 hours @ \$175.00 per hour .....              | \$ 1,050.00        |
| Ross S. Mullen, Engineer/Scientist/Specialist II |                    |
| 0.4 hours @ \$100.00 per hour .....              | \$ 40.00           |
| <i>Subtotal, Technical Services.....</i>         | <i>\$ 1,090.00</i> |

MONTHLY MEETING PREPARATION

Communications/coordination with administrator and internal staff regarding draft/final agenda and meeting packet for November Commission meeting; review/edit draft October meeting minutes; prepare for November Commission meeting, including pre-meeting conference call with Chair de Lambert and administrator and reviewing meeting packet; and communications with administrator and internal staff regarding follow-up items from November Commission meeting and upcoming meeting agenda items.

|   |                    |
|---|--------------------|
| James P. Herbert, Principal Engineer/Scientist    |                    |
| 1.0 hours @ \$190.00 per hour .....               | \$ 190.00          |
| Karen L. Chandler, Principal Engineer/Scientist   |                    |
| 16.2 hours @ \$175.00 per hour .....              | \$ 2,835.00        |
| Technicians/Administrative.....                   | \$ 508.00          |
| <i>Subtotal, Monthly Meeting Preparation.....</i> | <i>\$ 3,533.00</i> |

### CIP PRIORITIZATION PROCESS

Prepare for and attend November 5 CIP Prioritization Committee meeting, including review of administrator's draft agenda; attend November 27 meeting with administrator to plan for December 5 CIP Prioritization Committee meeting; review/edit draft scoring matrix; edit map; and communications with administrator.

|   |                           |
|---|---------------------------|
| Karen L. Chandler, Principal Engineer/Scientist             |                           |
| 5.8 hours @ \$175.00 per hour .....                         | \$ 1,015.00               |
| Sterling 'Greg' Williams, Engineer/Scientist/Specialist III |                           |
| 6.8 hours @ \$135.00 per hour .....                         | \$ 918.00                 |
| <i>Subtotal, CIP Prioritization Process.....</i>            | <i>\$ 1,933.00</i>        |
| <b><i>Subtotal Technical Services .....</i></b>             | <b><i>\$ 6,556.00</i></b> |

### PLAT REVIEW

#### Golden Valley Road Senior Living (2017-35)

Review post-approval resubmittal for revised site design; and prepare and send approval letter to city staff.

|  |                  |
|--|------------------|
| James P. Herbert, Principal Engineer/Scientist     |                  |
| 0.4 hours @ \$190.00 per hour .....                | \$ 76.00         |
| Josh P. Phillips, Engineer/Scientist/Specialist I  |                  |
| 2.1 hours @ \$85.00 per hour .....                 | \$ 178.50        |
| <i>Subtotal, Golden Valley Road Sr Living.....</i> | <i>\$ 254.50</i> |

#### Starbucks Building Shell and Future Apartment Bldg (2018-25)

Project close-out filing.

|   |                 |
|---|-----------------|
| Josh P. Phillips, Engineer/Scientist/Specialist I               |                 |
| 0.5 hours @ \$85.00 per hour .....                              | \$ 42.50        |
| <i>Subtotal, Starbucks Bldg Shell and Future Apartment.....</i> | <i>\$ 42.50</i> |

#### Neighborhood Drainage Improvements (2018-27)

Review grading drainage and erosion control plans; prepare and send comment letter to city staff; communications with applicant; review revised grading, drainage and erosion control plan; and prepare and send approval letter to city staff.

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|--|------------------|
| James P. Herbert, Principal Engineer/Scientist           |                  |
| 1.4 hours @ \$190.00 per hour .....                      | \$ 266.00        |
| Josh P. Phillips, Engineer/Scientist/Specialist I        |                  |
| 4.0 hours @ \$85.00 per hour .....                       | \$ 340.00        |
| <i>Subtotal, Neighborhood Drainage Improvements.....</i> | <i>\$ 606.00</i> |

#### Ridgedale Executive Apartments (2018-28)

Review grading, drainage and erosion control plans; prepare review memo for November Commission meeting and provide to administrator for packet; prepare and send comment letter to city staff;

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

|   |                    |
|---|--------------------|
| James P. Herbert, Principal Engineer/Scientist<br>1.8 hours @ \$190.00 per hour .....     | \$ 342.00          |
| Karen L. Chandler, Principal Engineer/Scientist<br>1.6 hours @ \$175.00 per hour .....    | \$ 280.00          |
| Edward M. Anderson, Engineer/Scientist/Specialist I<br>0.7 hours @ \$85.00 per hour ..... | \$ 59.50           |
| Josh P. Phillips, Engineer/Scientist/Specialist I<br>10.9 hours @ \$85.00 per hour.....   | \$ 926.50          |
| Technicians/Administrative.....   | \$ 47.50           |
| Expenses (Postage) .....  | \$ 0.68            |
| <i>Subtotal, Ridgedale Executive Apartments.....</i>                                      | <i>\$ 1,656.18</i> |

Starbucks Annapolis Lane Plymouth (2018-29)

Plat review set up and coordination with applicant.

|   |                    |
|---|--------------------|
| Josh P. Phillips, Engineer/Scientist/Specialist I<br>0.3 hours @ \$85.00 per hour ..... | \$ 25.50           |
| Technicians/Administrative.....   | \$ 47.50           |
| Expenses (Postage) .....  | \$ 0.47            |
| <i>Subtotal, Starbucks Annapolis Lane Plymouth.....</i>                                 | <i>\$ 73.47</i>    |
| <b>Subtotal Plat Review .....</b>   | <b>\$ 2,632.65</b> |

PRELIMINARY COMMUNICATIONS AND NON-FEE REVIEWS

PRELIMINARY COMMUNICATIONS

Communications with Golden Valley resident, Golden Valley staff, and internal staff regarding proposed fence in floodplain at 5005 Bassett Creek Drive; and internal discussion regarding project reviews.

|   |                  |
|---|------------------|
| James P. Herbert, Principal Engineer/Scientist<br>3.5 hours @ \$190.00 per hour .....   | \$ 665.00        |
| Ross S. Mullen, Engineer/Scientist/Specialist II<br>0.7 hours @ \$100.00 per hour ..... | \$ 70.00         |
| Josh P. Phillips, Engineer/Scientist/Specialist I<br>0.2 hours @ \$85.00 per hour ..... | \$ 17.00         |
| <b>Subtotal, Preliminary Communications.....</b>  | <b>\$ 752.00</b> |

NON-FEE REVIEWS

Wellington Development/Bassett Creek Valley

Communications with administrator regarding potential floodplain and water quality study of lower Bassett Creek Valley; communications with Minneapolis staff regarding meeting about Bassett Creek

Valley study; internal meeting regarding potential scope of study; look into flood elevations at tunnel inlet; and prepare for and attend November 29 meeting at Minneapolis city offices with Minneapolis staff, administrator, MWMO staff, and city's consultant regarding scope for floodplain and water quality study of lower Bassett Creek Valley.

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|---|--------------------|
| Karen L. Chandler, Principal Engineer/Scientist<br>5.5 hours @ \$175.00 per hour .....  | \$ 962.50          |
| Ross S. Mullen, Engineer/Scientist/Specialist II<br>0.3 hours @ \$100.00 per hour ..... | \$ 30.00           |
| Expenses (Mileage/parking) .....  | \$ 17.31           |
| <i>Subtotal, Wellington Dev./B. Cr. Valley .....</i>                                    | <i>\$ 1,009.81</i> |
| <b>Subtotal Non-Fee Reviews .....</b>   | <b>\$ 1,009.81</b> |
| <b>Subtotal Preliminary Communications and Non-Fee Reviews .....</b>                    | <b>\$ 1,761.81</b> |

#### COMMISSION AND TAC MEETINGS

Attend November 14 Commission meeting.

|  |                  |
|--|------------------|
| Karen L. Chandler, Principal Engineer/Scientist<br>2.3 hours @ \$175.00 per hour ..... | \$ 402.50        |
| <b>Subtotal, Commission and TAC Meetings .....</b>                                     | <b>\$ 402.50</b> |

#### SURVEYS & STUDIES

|   |                |
|---|----------------|
| <b>Subtotal Surveys &amp; Studies .....</b> | <b>\$ 0.00</b> |
|---|----------------|

#### WATER QUALITY/MONITORING

##### Routine Lake Monitoring – Parkers and Westwood Lakes

Data upload and verification; review Parkers Lake water quality data; and subconsultant expenses (Three Rivers Park District) for Parkers Lake services, including collecting and analyzing water quality monitoring data, performing aquatic plant surveys, and providing data summaries.

|  |                    |
|--|--------------------|
| Margaret R. Rattei, Engineer/Scientist/Specialist III<br>0.4 hours @ \$135.00 per hour ..... | \$ 54.00           |
| Erin M. Dietrich, Engineer/Scientist/Specialist III<br>0.2 hours @ \$145.00 per hour .....   | \$ 29.00           |
| Technicians/Administrative.....  | \$ 45.00           |
| Expenses (Three Rivers Park District) .....  | \$ 3,152.00        |
| <i>Subtotal, Routine Lake Monitoring – Parkers and Westwood .....</i>                        | <i>\$ 3,280.00</i> |

##### Biotic Index Monitoring

Discuss report format and content with administrator; communications with subconsultant regarding macroinvertebrate analyses; and review macroinvertebrate data.

|  |           |
|--|-----------|
| Karen L. Chandler, Principal Engineer/Scientist<br>0.7 hours @ \$175.00 per hour ..... | \$ 122.50 |
|--|-----------|

Margaret R. Rattei, Engineer/Scientist/Specialist III  
1.5 hours @ \$135.00 per hour ..... \$ 202.50  
*Subtotal, Biotic Index Monitoring* ..... \$ 325.00  
***Subtotal, Water Quality/Monitoring*.....\$ 3,605.00**

#### WATER QUANTITY

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

Technicians/Administrative..... \$ 760.00  
Expenses (Mileage/2WD Field) ..... \$ 115.78  
***Subtotal, Water Quantity*.....\$ 875.78**

#### FLOOD CONTROL PROJECT INSPECTION+DEEP TUNNEL

Prepare annual flood control project inspection report; and prepare and send revised letter to U.S. Army Corps of Engineers staff regarding suggested new date for deep tunnel inspection.

James P. Herbert, Principal Engineer/Scientist  
3.0 hours @ \$190.00 per hour ..... \$ 570.00  
Josh P. Phillips, Engineer/Scientist/Specialist I  
17.9 hours @ \$85.00 per hour..... \$ 1,521.50  
***Subtotal, Flood Control Proj Inspect+Deep Tunnel*.....\$ 2,091.50**

#### MUNICIPAL PLAN REVIEWS

##### Minneapolis WRMP Review

Review revised plan document and ordinance status; and communications with administrator and Minneapolis staff.

Karen L. Chandler, Principal Engineer/Scientist  
0.9 hours @ \$175.00 per hour ..... \$ 157.50  
Sterling 'Greg' Williams, Engineer/Scientist/Specialist III  
3.9 hours @ \$135.00 per hour ..... \$ 526.50  
***Subtotal, Minneapolis WRMP* ..... \$ 684.00**

##### St. Louis Park SWMP Review

Review SWMP document and prepare comments; communications with St. Louis Park staff regarding ordinances and official controls; and review Westwood Lake flood elevations.

Karen L. Chandler, Principal Engineer/Scientist  
15.1 hours @ \$175.00 per hour ..... \$ 2,642.50  
Ross S. Mullen, Engineer/Scientist/Specialist II  
0.3 hours @ \$100.00 per hour ..... \$ 30.00  
Josh P. Phillips, Engineer/Scientist/Specialist I  
2.1 hours @ \$85.00 per hour ..... \$ 178.50  
***Subtotal, St. Louis Park Plan* ..... \$ 2,851.00**

#### Crystal LSWMP Review

Review LSWMP document; communications with city staff regarding implementation program and ordinance updates; communications with Commission counsel regarding WCA enforcement; prepare comments; provide comments to city staff; and communications with city staff.

Karen L. Chandler, Principal Engineer/Scientist  
8.8 hours @ \$175.00 per hour ..... \$ 1,540.00  
*Subtotal, Crystal LSWMP* ..... \$ 1,540.00

#### New Hope LSWMP Review

Review responses to comments, revised LSWMP document, and ordinance status; and communications with administrator and New Hope staff.

Karen L. Chandler, Principal Engineer/Scientist  
1.1 hours @ \$175.00 per hour ..... \$ 192.50  
Sterling 'Greg' Williams, Engineer/Scientist/Specialist III  
3.9 hours @ \$135.00 per hour ..... \$ 526.50  
*Subtotal, New Hope LSWMP* ..... \$ 719.00

#### Medicine Lake LSWMP Review

Communications with Medicine Lake representatives regarding LSWMP review; and communications with Medicine Lake consultant.

Karen L. Chandler, Principal Engineer/Scientist  
0.5 hours @ \$175.00 per hour ..... \$ 87.50  
*Subtotal, Medicine Lake LSWMP* ..... \$ 87.50

#### Plymouth SWMP Review

Review responses to comments, revised SWMP document, and ordinance status; communications with administrator and Plymouth staff; and download revised SWMP document.

Karen L. Chandler, Principal Engineer/Scientist  
1.1 hours @ \$175.00 per hour ..... \$ 192.50  
Sterling 'Greg' Williams, Engineer/Scientist/Specialist III  
6.4 hours @ \$135.00 per hour ..... \$ 864.00  
*Subtotal, Plymouth LSWMP* ..... \$ 1,056.50  
***Subtotal, Municipal Plan Reviews* ..... \$ 6,938.00**

#### XP-SWMM MODEL UPDATES-REVIEWS

***Subtotal, XP-SWMM Model Updates-Reviews* ..... \$ 0.00**

**TOTAL ENGINEERING ..... \$ 24,863.24**

**WATERSHED OUTLET MONITORING PROGRAM (WOMP)**

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

**APM/AIS WORK**

Provide MnDNR starry stonewort information to administrator.

Karen L. Chandler, Principal Engineer/Scientist

0.4 hours @ \$175.00 per hour .....\$ 70.00

*Subtotal, APM/AIS Work* .....\$ 70.00

**TOTAL APM/AIS WORK.....\$ 70.00**

**ADMINISTRATIVE SERVICES**

**TOTAL ADMINISTRATIVE SERVICES.....\$ 0.00**

**ANNUAL REPORT**

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

**WEBSITE**

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

**PUBLIC COMMUNICATIONS**

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

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

SCHAPER POND 2018 MONITORING AND REPORTING (SL-3)

Follow-up with Carp Solutions regarding PIT antenna installation.

Gregory J. Wilson, Consultant/Advisor

2.3 hours @ \$160.00 per hour .....\$ 368.00

Expenses (Quicksilver Express Courier) .....\$ 31.98

***Subtotal, Schaper Pond 2018 Monitoring and Reporting*.....\$ 399.98**

WESTWOOD LAKE WATER QUALITY IMPROVEMENT PROJECT (2019) (WST-2)

Edit BCWMC sign and provide to administrator for review; and communications with internal staff and administrator.

|   |                  |
|---|------------------|
| Michelle A. Kimble, Engineer/Scientist/Specialist III       |                  |
| 1.3 hours @ \$130.00 per hour .....                         | \$ 169.00        |
| Karen C. Kaul, Contracted                                   |                  |
| 3.0 hours @ \$85.00 per hour .....                          | \$ 255.00        |
| <b>Subtotal, Westwood Lake WQ Improvement Project .....</b> | <b>\$ 424.00</b> |

JEVNE PARK STORMWATER MANAGEMENT FEASIBILITY STUDY (2020) (ML-21)

Review/edit presentation for agency meeting and internal discussion; attend November 6 agency meeting and follow-up discussion with Medicine Lake representatives; follow-up items from agency meeting including follow-up on cultural resources, and creating a wetland delineation and ordinary HWL figure; revise wetland joint application form and submit report to LGU; site LGU meeting preparation; site review on November 16 for wetland delineation; compile items for concept grading development; site visit to take photos of additional staking across from 237 Peninsula Rd; internal meeting regarding concept grading and impacts to wetlands/habitat etc.; edit concept grading plans; and develop existing conditions XP-SWMM and P8 models.

|  |                    |
|--|--------------------|
| Karen L. Chandler, Principal Engineer/Scientist                |                    |
| 3.3 hours @ \$175.00 per hour .....                            | \$ 577.50          |
| Jennifer A. Koehler, Engineer/Scientist/Specialist III         |                    |
| 13.4 hours @ \$140.00 per hour .....                           | \$ 1,876.00        |
| Shanna R. Braun, Engineer/Scientist/Specialist III             |                    |
| 2.0 hours @ \$130.00 per hour .....                            | \$ 260.00          |
| Karen S. Wold, Engineer/Scientist/Specialist III               |                    |
| 1.3 hours @ \$125.00 per hour .....                            | \$ 162.50          |
| Brian K. Burgner, Engineer/Scientist/Specialist II             |                    |
| 5.0 hours @ \$100.00 per hour .....                            | \$ 500.00          |
| Lulu Fang, Engineer/Scientist/Specialist I                     |                    |
| 6.2 hours @ \$90.00 per hour .....                             | \$ 558.00          |
| Mack M. Wyatt, Engineer/Scientist/Specialist I                 |                    |
| 0.5 hours @ \$70.00 per hour .....                             | \$ 35.00           |
| Technicians/Administrative .....                               | \$ 478.50          |
| <b>Subtotal, Jevne Park Stormwater Feasibility Study .....</b> | <b>\$ 4,447.50</b> |

BRYN MAWR MEADOWS WATER QUALITY IMPROVEMENT PROJECT (2020) (BC-5)

Set up, prepare for and attend November 7 meeting with MnDOT staff and administrator to discuss Penn Pond and unnamed pond under I-394; and communications with administrator, MnDOT staff, and MPRB staff.

|   |           |
|---|-----------|
| Kurt A. Leuthold, Principal Engineer/Scientist        |           |
| 1.0 hours @ \$180.00 per hour .....                   | \$ 180.00 |
| Michelle A. Kimble, Engineer/Scientist/Specialist III |           |
| 4.3 hours @ \$130.00 per hour .....                   | \$ 559.00 |



|  |                  |
|--|------------------|
| Josh P. Phillips, Engineer/Scientist/Specialist I              |                  |
| 1.0 hours @ \$85.00 per hour .....                             | \$ 85.00         |
| Technicians/Administrative.....                                | \$ 38.00         |
| <b>Subtotal, Bryn Mawr Meadows WQ Improvement Project.....</b> | <b>\$ 862.00</b> |

JEVNE PARK STORMWATER IMPROVEMENT PROJECT (2020) (ML-21)

Perform WCA LGU tasks on behalf of the City of Medicine Lake, including review wetland delineation report, participate in November 6 agency meeting, prepare and submit WCA Notice of Application, and conduct November 16 wetland delineation site review.

|   |                  |
|---|------------------|
| Karen S. Wold, Engineer/Scientist/Specialist III                |                  |
| 5.4 hours @ \$125.00 per hour .....                             | \$ 675.00        |
| Expenses (Mileage) .....  | \$ 16.35         |
| <b>Subtotal, Jevne Park Stormwater Improvement Project.....</b> | <b>\$ 691.35</b> |

**TOTAL CAPITAL IMPROVEMENTS PROJECTS (Tax Levy) .....\$ 6,824.83**

|                  |
|------------------|
| <b>TMDL WORK</b> |
|------------------|

**TOTAL TMDL WORK.....\$ 0.00**

|   |
|---|
| <b>IMPROVED FEMA FLOODPLAIN MODELING &amp; MAPPING (MDNR)</b> |
|---|

IMPROVED FEMA FLOODPLAIN MODELING & MAPPING (MDNR)

Continue reviewing survey data from the MnDNR; communications with MnDNR staff regarding structures not included in the survey data—36th Avenue in New Hope/Crystal and how to handle other areas if more survey data is required; and update XP-SWMM model with survey results received to-date.


|  |                    |
|--|--------------------|
| Karen L. Chandler, Principal Engineer/Scientist                  |                    |
| 2.6 hours @ \$175.00 per hour .....                              | \$ 455.00          |
| Ross S. Mullen, Engineer/Scientist/Specialist II                 |                    |
| 10.5 hours @ \$100.00 per hour .....                             | \$ 1,050.00        |
| Samantha A. Beck, Engineer/Scientist/Specialist I                |                    |
| 13.9 hours @ \$70.00 per hour .....                              | \$ 973.00          |
| <i>Subtotal, Improved FEMA Floodplain Modeling &amp; Mapping</i> |                    |
| <i>(MDNR).....</i>   | <i>\$ 2,478.00</i> |

**TOTAL IMPROVED FEMA FLOODPLAIN MODELING & MAPPING (MDNR).....\$ 2,478.00**

|                       |
|-----------------------|
| <b>SUMMARY TOTALS</b> |
|-----------------------|

|   |                           |
|---|---------------------------|
| <b>Total Engineering .....</b>  | <b>\$ 24,863.24</b>       |
| <b>Total WOMP.....</b>  | <b>\$ 0.00</b>            |
| <b>Total APM/AIS Work.....</b>  | <b>\$ 70.00</b>           |
| <b>Total Administrative Services.....</b>                                 | <b>\$ 0.00</b>            |
| <b>Total Annual Report/Website/Public Communications .....</b>            | <b>\$ 0.00</b>            |
| <b>Total TMDL Work .....</b>  | <b>\$ 0.00</b>            |
| <b>Total Capital Improvement Projects (Tax Levy).....</b>                 | <b>\$ 6,824.83</b>        |
| <b>Total Improved FEMA Floodplain Modeling &amp; Mapping (MDNR) .....</b> | <b>\$ <u>2,478.00</u></b> |
| <b>TOTAL PAYABLE.....</b>   | <b>\$ 34,236.07</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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