

**MASTER AGREEMENT FOR PROFESSIONAL SERVICES  
BY AND BETWEEN  
BRAUN INTERTEC CORPORATION  
AND  
CITY OF DULUTH**

THIS MASTER SERVICES AGREEMENT, effective as of the date of attestation by the City Clerk (the "Effective Date"), is made by and between the CITY OF DULUTH, a municipal corporation under laws of the State of Minnesota, hereinafter referred to as "City," and BRAUN INTERTEC CORPORATION, located at 4511 West First Street, Suite 4, Duluth, MN 55807, hereinafter referred to as "Consultant," for the purpose of rendering services to the City.

WHEREAS, the City desires to utilize Consultant's geotechnical and material testing services on a non-exclusive, project by project basis to support the construction, operation, and maintenance of city systems; and

WHEREAS, Consultant has represented that it is qualified and willing to perform these services;

NOW, THEREFORE, in consideration of the mutual covenants and conditions hereinafter contained, the parties hereto agree as follows:

I. Services

Consultant will provide, upon written request of the city engineer in the form of a Statement of Work or similar documentation (each a "SOW"), geotechnical and/or material testing services including, but not limited to, laboratory tests of soils, grain size analysis, strength and compressibility testing, and construction testing and observations.

II. Fees

It is agreed between the parties that Consultant's maximum annual fee for the term of this Agreement shall not exceed the sum of Fifty Thousand and no/100 Dollars (\$50,000.00), payable from various appropriate funds, departments, agencies, and objects, Project 1722. Fees for each service will be determined by the Consultant's current testing fee schedule, attached hereto as "Exhibit A," less a fifteen percent (15%) discount. All invoices for services rendered shall be submitted monthly to the project manager, or his/her designee, and shall be accompanied by such documentation as the City shall reasonably expect. Upon receipt of said request and appropriate documentation, the City shall reimburse Consultant up to the amount set forth above.

III. General Terms and Conditions

1. Amendments.

Any alterations, variations, modifications or waivers of terms of this Agreement shall be binding upon the City and Consultant only upon being reduced to writing and signed by a duly authorized representative of each party.

2. Assignment.

Consultant represents that it will utilize only its own personnel in the performance of the services set forth herein; and further agrees that it will neither assign, transfer or subcontract any rights or obligations under this Agreement without prior written consent of the City.

### 3. Data and Confidentiality.

- a. The City agrees that it will make available all pertinent information, data and records under its control for Consultant to use in the performance of this Agreement, or to assist Consultant wherever possible to obtain such records, data and information.
- b. All reports, data, information, documentation and material given to or prepared by Consultant pursuant to this Agreement will be confidential and will not be released by Consultant without prior authorization from the City.
- c. Consultant agrees that all work created by Consultant for the City is a “work made for hire” and that the City shall own all right, title, and interest in and to the work, including the entire copyright in the work (“City Property”). Consultant further agrees that to the extent the work is not a “work made for hire” Consultant will assign to City ownership of all right, title and interest in and to the work, including ownership of the entire copyright in the work. Consultant agrees to execute, at no cost to City, all documents necessary for City to perfect its ownership of the entire copyright in the work. Consultant represents and warrants that the work created or prepared by Consultant will be original and will not infringe upon the rights of any third party, and Consultant further represents that the work will not have been previously assigned, licensed or otherwise encumbered.
- d. Records shall be maintained by Consultant in accordance with requirements prescribed by the City and with respect to all matters covered by this Agreement. Such records shall be maintained for a period of six (6) years after receipt of final payment under this Agreement.
- e. Consultant will ensure that all costs shall be supported by properly executed payrolls, time records, invoices, contracts, vouchers, or other official documentation evidencing in proper detail the nature and propriety of the charges. All checks, payrolls, invoices, contracts, vouchers, orders, or other accounting documents pertaining in whole or in part to this Agreement shall be clearly identified and readily accessible.
- f. Consultant shall be responsible for furnishing to the City records, data and information as the City may require pertaining to matters covered by this Agreement.
- g. Consultant shall ensure that at any time during normal business hours and as often as the City may deem necessary, there shall be made available to the City for examination, all of its records with respect to all matters covered by this Agreement Consultant will also permit the City to audit, examine, and make excerpts or transcripts from such records, and to make audits of all contracts, invoices, materials, payrolls, records of personnel, conditions of employment, and other data relating to all matters covered by this Agreement.

### 4. Standard of Performance.

Consultant represents and warrants that:

- a. Consultant and all personnel to be provided by it hereunder has sufficient training and experience to perform the duties set forth herein and are in good standing with all applicable licensing requirements.
- b. Consultant and all personnel provided by it hereunder shall perform their respective duties in a professional and diligent manner in the best interests of the City and in accordance with the then current generally accepted standards of the profession for the provisions of services of this type.

- c. Consultant has complied or will comply with all legal requirements applicable to it with respect to this Agreement. Consultant will observe all applicable laws, regulations, ordinances and orders of the United States, State of Minnesota and agencies and political subdivisions thereof.
- d. The execution and delivery of this Agreement and the consummation of the transactions herein contemplated do not and will not conflict with, or constitute a breach of or a default under, any agreement to which the Consultant is a party or by which it is bound, or result in the creation or imposition of any lien, charge or encumbrance of any nature upon any of the property or assets of the Consultant contrary to the terms of any instrument or agreement.
- e. There is no litigation pending or to the best of the Consultant's knowledge threatened against the Consultant affecting its ability to carry out the terms of this Agreement or to carry out the terms and conditions of any other matter materially affecting the ability of the Consultant to perform its obligations hereunder.
- f. The Consultant will not, without the prior written consent of the City, enter into any agreement or other commitment the performance of which would constitute a breach of any of the terms, conditions, provisions, representations, warranties and/or covenants contained in this Agreement.

5. Agreement Period.

The term of this Agreement shall commence on the Effective Date and shall continue until December 31, 2022, unless terminated earlier as provided for herein.

Either party may, by giving written notice, specifying the effective date thereof, terminate this Agreement in whole or in part without cause. In the event of termination, all property and finished or unfinished documents and other writings prepared by Consultant under this Agreement shall become the property of the City and Consultant shall promptly deliver the same to the City. Consultant shall be entitled to compensation for services properly performed by it to the date of termination of this Agreement. In the event of termination due to breach by Consultant, the City shall retain all other remedies available to it, and the City shall be relieved from payment of any fees in respect of the services of Consultant which gave rise to such breach.

6. Independent Contractor.

- a. It is agreed that nothing herein contained is intended or should be construed in any manner as creating or establishing the relationship of copartners between the parties hereto or as constituting Consultant as an agent, representative or employee of the City for any purpose or in any manner whatsoever. The parties do not intend to create any third party beneficiary of this Agreement. Consultant and its employees shall not be considered employees of the City, and any and all claims that may or might arise under the Worker's Compensation Act of the State of Minnesota on behalf of Consultant's employees while so engaged, and any and all claims whatsoever on behalf of Consultant's employees arising out of employment shall in no way be the responsibility of City. Except for compensation provided in Section II of this Agreement, Consultant's employees shall not be entitled to any compensation or rights or benefits of any kind whatsoever from City, including without limitation, tenure rights, medical and hospital care, sick and vacation leave, Worker's Compensation, Unemployment Insurance, disability or severance pay and P.E.R.A. (Public Employee

Retirement Association). Further, City shall in no way be responsible to defend, indemnify or save harmless Consultant from liability or judgments arising out of Consultant's intentional or negligent acts or omissions of Consultant or its employees while performing the work specified by this Agreement.

- b. The parties do not intend by this Agreement to create a joint venture or joint enterprise, and expressly waive any right to claim such status in any dispute arising out of this Agreement.
- c. Consultant expressly waives any right to claim any immunity provided for in Minnesota Statutes Chapter 466 or pursuant to the official immunity doctrine.

#### 7. Indemnity.

To the extent allowed by law, Consultant shall defend, indemnify and hold City and its employees, officers, and agents harmless from and against any and all cost or expenses, claims or liabilities, including but not limited to, reasonable attorneys' fees and expenses in connection with any claims resulting from the Consultant's a) breach of this agreement or b) its negligence or misconduct or that of its agents or contractors in performing the Services hereunder or c) any claims arising in connection with Consultant's employees or contractors, or d) the use of any materials supplied by the Consultant to the City unless such material was modified by City and such modification is the cause of such claim. This Section shall survive the termination of this Agreement for any reason.

#### 8. Insurance.

Consultant shall obtain and maintain for the Term of this Agreement the following minimum amounts of insurance from insurance companies authorized to do business in the State of Minnesota.

- a. Public Liability and Automobile Liability Insurance with limits not less than \$1,500,000 Single Limit, shall be in a company approved by the city of Duluth; and shall provide for the following: Liability for Premises, Operations, Completed Operations, and Contractual Liability. City of Duluth shall be named as Additional Insured by endorsement under the Public Liability and Automobile Liability, or as an alternate, Consultant may provide Owners-Contractors Protective policy, naming himself and City of Duluth. Upon execution of this Agreement, Consultant shall provide Certificate of Insurance evidencing such coverage with 30-days' notice of cancellation, non-renewal or material change provisions included.
- b. Professional Liability Insurance in an amount not less than \$1,500,000 Single Limit; provided further that in the event the professional malpractice insurance is in the form of "claims made," insurance, 60 days' notice prior to any cancellation or modification shall be required; and in such event, Consultant agrees to provide the City with either evidence of new insurance coverage conforming to the provisions of this paragraph which will provide unbroken protection to the City, or, in the alternative, to purchase at its cost, extended coverage under the old policy for the period the state of repose runs; the protection to be provided by said "claims made" insurance shall remain in place until the running of the statute of repose for claims related to this Agreement.
- c. Consultant shall also provide evidence of Statutory Minnesota Workers' Compensation Insurance.

- d. A certificate showing continued maintenance of such insurance shall be on file with the City during the term of this Agreement.
- e. The City of Duluth does not represent or guarantee that these types or limits of coverage are adequate to protect the Consultant's interests and liabilities.

9. Notices.

Unless otherwise expressly provided herein, any notice or other communication required or given shall be in writing and shall be effective for any purpose if served, with delivery or postage costs prepaid, by nationally recognized commercial overnight delivery service or by registered or certified mail, return receipt requested, to the following addresses:

**City:** City of Duluth  
411 W First Street  
City Hall Room # 211  
Duluth MN 55802  
Attn: City Engineer

**Consultant:** Braun Intertec Corporation  
4511 West First Street, Suite 4  
Duluth, MN 55807  
Attn: Joseph C. Butler

10. Civil Rights Assurances

Consultant, as part of the consideration under this Agreement, does hereby covenant and agree that:

- a. No person on the grounds of race, color, creed, religion, national origin, ancestry, age, sex, marital status, status with respect to public assistance, sexual orientation, and/or disability shall be excluded from any participation in, denied any benefits of, or otherwise subjected to discrimination with regard to the work to be done pursuant to this Agreement.
- b. That all activities to be conducted pursuant to this Agreement shall be conducted in accordance with the Minnesota Human Rights Act of 1974, as amended (Chapter 363), Title 7 of the U.S. Code, and any regulations and executive orders which may be affected with regard thereto.

11. Laws, Rules and Regulations

Consultant agrees to observe and comply with all laws, ordinances, rules and regulations of the United States of America, the State of Minnesota and the City with respect to their respective agencies which are applicable to its activities under this Agreement.

12. Applicable Law

This Agreement, together with all of its paragraphs, terms and provisions is made in the State of Minnesota and shall be construed and interpreted in accordance with the laws of the State of Minnesota.

13. Force Majeure

Neither party shall be liable for any failure of or delay in performance of its obligations under his Agreement to the extent such failure or delay is due to circumstances beyond its reasonable control, including, without limitation, acts of God, acts of a public enemy, fires, floods, wars, civil disturbances, sabotage, accidents, insurrections, blockades, embargoes, storms, explosions, labor

disputes, acts of any governmental body (whether civil or military, foreign or domestic), failure or delay of third parties or governmental bodies from whom a party is obtaining or must obtain approvals, franchises or permits, or inability to obtain labor, materials, equipment, or transportation. Any such delays shall not be a breach of or failure to perform this Agreement or any part thereof and the date on which the party's obligations hereunder are due to be fulfilled shall be extended for a period equal to the time lost as a result of such delays.

#### 14. Severability

In the event any provision herein shall be deemed invalid or unenforceable, the remaining provision shall continue in full force and effect and shall be binding upon the parties to this Agreement.

#### 15. Entire Agreement

It is understood and agreed that the entire agreement of the parties including all exhibits is contained herein and that this Agreement supersedes all oral agreements and negotiations between the parties relating to the subject matter hereof. Any amendment to this Agreement shall be in writing and shall be executed by the same parties who executed the original agreement or their successors in office.

#### 16. Counterparts

This Agreement may be executed in two or more counterparts, each of which shall be deemed to be an original as against any party whose signature appears thereon, but all of which together shall constitute but one and the same instrument. Signatures to this Agreement transmitted by facsimile, by electronic mail in "portable document format" (".pdf"), or by any other electronic means which preserves the original graphic and pictorial appearance of the Agreement, shall have the same effect as physical delivery of the paper document bearing the original signature.

IN WITNESS WHEREOF, the parties have hereunto set their hands as of the date of attestation shown below.

**CITY OF DULUTH**

**BRAUN INTERTEC CORPORATION**

By:

By:

\_\_\_\_\_  
Mayor

\_\_\_\_\_  
Company Representative

Attest:

Its:

\_\_\_\_\_  
City Clerk

\_\_\_\_\_  
Title of Representative

Date Attested: \_\_\_\_\_

Date: \_\_\_\_\_

Countersigned:

\_\_\_\_\_  
City Auditor

Approved as to form:

\_\_\_\_\_  
Assistant City Attorney

EXHIBIT A



**Schedule of Charges**  
**(Effective January 1, 2018)**  
**Braun Intertec Corporation**  
**and Subsidiaries**

**Service Locations**

Minneapolis, MN  
St. Paul, MN  
Albertville, MN  
Duluth, MN  
Hibbing, MN  
Mankato, MN  
Rochester, MN  
St. Cloud, MN

Cedar Rapids, IA

Lenexa, KS

St. Louis, MO

Bismarck, ND  
Dickinson, ND  
Minot, ND  
Watford City, ND  
West Fargo, ND  
Williston, ND

La Crosse, WI

## Geotechnical Services

Hourly rates apply for regular-time (8 hours or less on weekdays). Hourly rates do not include support truck or carrier rental or use, mileage, supplies consumed in drilling or abandoned in test holes, or per diem expenses.

## Drilling Equipment, Services & Personnel

### Drilling Services

|  |     |
|--|-----|
| 9000 – Truck Mounted Drilling Services, per hour   | 328 |
| 9100 – Flotation Tire Drill Rig and Crew, per hour | 389 |
| 9200 – Track Mounted Drill Rig and Crew, per hour  | 452 |
| 9300 – Skid Mounted Drilling Services, per hour    | 328 |

### GeoProbe Services

|   |     |
|---|-----|
| 9400 – GeoProbe services, per hour  | 278 |
| 9430 – Water sampling tubing and consumables, per sample                              | 8   |
| 9435 – Soil gas sampling tubing and consumables, per sample                           | 24  |
| 9450 – GeoProbe grouting/sealing, per foot  | 2   |
| 9455 – Additional crew person for SPT borings, per hour                               | 58  |
| 9460 – Overtime addition, per person, for work in excess of 8 hours per day, per hour | 28  |

### CPT Services

|  |     |
|--|-----|
| 9500 – CPT Services, per hour                          | 480 |
| 9515 – Standby time, CPT & Crew, per hour              | 400 |
| 9525 – CPT grouting/sealing, per foot                  | 2   |
| 9520 – Seismic wave analysis                           | 317 |
| 9540 – Dissipation testing, per ¼ hour                 | 120 |
| 9510 – Overtime addition to two-person crews, per hour | 66  |

### Drilling Related Services

|   |       |
|---|-------|
| 205 – Site layout and utility clearance                                     | 118   |
| 292 – Drilling supervisor   | 129   |
| 306 – Flaggers (per flagger 2 or 3 man crew)                                | 118   |
| 1052 – Warning signs  | Quote |
| 1030 – Vane shear test (ASTM D 2573), per day                               | 368   |
| 1032 – Electrical resistivity equipment (ASTM G 57), per day                | 275   |
| 1022 – Thin-walled sample tubes (ASTM D 15 87), each                        | 32    |
| 1040 – Pressure meter equipment, per day                                    | 758   |
| 1044 – Surcharge for continuous tube sample systems (2-1/4" x 5"). Per hour | 46    |

### E-Logging Services

|  |       |
|--|-------|
| 1086 – E-Log unit, per mile                  | Quote |
| 1089 – E-Log unit and technician, per day    | 1,250 |
| 1084 – E-Log setup and mobilization, per day | Quote |

### Consumables: Wells/Piezometers/Borehole Abandonment

|  |     |
|--|-----|
| 9702 – Piezometer or well casing – 3/4" PVC, per foot      | 6   |
| 9712 – Well screen – 3/4" PVC, per foot                    | 6   |
| 9720 – Well screen – 2" stainless, per foot                | 65  |
| 9710 – Piezometer or well casing - 2" black iron, per foot | 33  |
| 9723 – Borehole closure device                             | 10  |
| 9732 – Grout with neat cement, materials per foot          | 8   |
| 9746 – 8" Well Vault for at grade well - each              | 85  |
| 9748 – 6" Protective casing with locking cover - each      | 312 |
| 9752 – 4" Bumper post steel - each                         | 132 |
| 9754 – 4" Bumper post wood - each                          | 67  |

### Permits & Sealing Records

|   |       |
|---|-------|
| 9906 – Well permit MN – Hennepin County, each | Quote |
| 9912 – Trip permit – Iowa, each               | Quote |
| 9920 – Right of way permit, each              | Quote |

### Additional Drilling Related

|  |       |
|--|-------|
| 9950 – Drum, steel 55 gallon, with lid, each | 54    |
| 9964 – Air compressor rental                 | Quote |
| 9952 – In-field steam cleaning, per hour     | 147   |

|  |       |
|--|-------|
| 9954 – Steam cleaning of drill rig and tool, per steam | 148   |
| 1087 – Mobilization                                    | Quote |
| 1059 – NQ Diamond coring bit wear, per foot            | 23    |
| 6204 – Rock coring setup, each                         | 274   |
| 1055 – Rock core boxes, each                           | 60    |
| 1045 – Rock coring, per foot                           | 54    |
| 1050 – Site restoration                                | Quote |
| 1029 – Standby time (2 man crew), per hour             | 213   |
| 1033 – Jars with box, 24 jars                          | 27    |

## Laboratory Tests of Soils

|      |   |       |
|------|---|-------|
| 1152 | Moisture content (ASTM D 2216), per sample  | 22    |
| 1154 | Moisture content and density (ASTM D 2937), per sample  | 39    |
| 1156 | Atterberg Limits: LL and PL (ASTM D 4318), per sample   | 123   |
| 1157 | Atterberg Limits: LL and PL (AASHTO T89 and T90 and Wet Preparation (AASHTO T146), per sample | 167   |
| 1223 | Soil/Concrete Stabilization   | 2,950 |

## Grain Size Analysis

|      |  |     |
|------|--|-----|
| 1162 | Sieve analysis with 200 wash (ASTM C 136 and C 117), per sample  | 151 |
| 1680 | Rush surcharge, per sample                                       | 38  |
| 1679 | Rush surcharge   | 22  |
| 1172 | Mechanical (sieve) -hydrometer analysis (ASTM D 422), per sample | 199 |
| 1174 | Organic content (ASTM D 2974), per sample                        | 84  |
| 1176 | Specific gravity of fine -grained soils (ASTM D 854), per sample | 146 |

## Permeability

|   |  |     |
|---|--|-----|
| 1180  | Constant head permeability of course-grained soils (ASTM D 2434), per sample | 404 |
| 1183  | Falling head permeability, undisturbed (ASTM D 5084), per sample             | 585 |
| 1185  | Falling head permeability, remolded (ASTM D 5084), per sample                | 699 |
| Double ring-infiltrometer test (ASTM D 3385): |  |     |
| 1193  | Granular soils – test and equipment rental                                   | 646 |
| 1194  | Cohesive soils – test and equipment rental                                   | 906 |

## Strength and Compressibility Testing

|      |   |     |
|------|---|-----|
| 1186 | Unconfined compression (ASTM D 2166), per sample  | 106 |
| 1190 | Direct shear, granular soil (3 point test) (ASTM D 3080), per sample                              | 675 |
| 1192 | Direct shear, cohesive soil (3 point test) (ASTM D 3080), per sample                              | 881 |
| 1196 | Consolidation testing, one-dimensional (strain vs. pressure curve only) (ASTM D 2435), per sample | 452 |
| 1198 | Consolidation testing, time-rate (ASTM D 2435), per sample  | 677 |

## One Dimensional Swell Test

|      |  |       |
|------|--|-------|
| 1202 | Maximum swell pressure (ASTM D 4546), per sample   | 351   |
| 1206 | Unconsolidated-Undrained triaxial testing (per 3 points) (ASTM D 2850), per sample                 | 970   |
| 1208 | Consolidated-Undrained triax testing with pore pressure measurements (ASTM D 4767), per sample     | 1,450 |
| 1210 | Consolidated-Drained triax testing (includes pore-pressure measurements) (ASTM D 4767), per sample | 1,785 |
| 1211 | Consolidated-Drained triax testing (without pore-pressure measurements) (ASTM D 4767), per sample  | 1,785 |

**Corrosion Potential and Miscellaneous**

|      |  |       |
|------|--|-------|
| 1214 | pH determination (ASTM G 51), per sample                     | 29    |
| 1216 | Electrical resistivity of soils (ASTM G 187), per sample     | 84    |
| 3238 | Thermal conductivity of soil (ASTM D 5334)                   | 771   |
| 1220 | Sulfate (concrete), per sample                               | 43    |
| 6146 | Sulfate (soil) (ASTM C 1580-05)                              | 388   |
| 1222 | Sulfide (metals), per sample                                 | 69    |
| 1226 | Topsoil testing, MNDOT 3877A (without nutrients), per sample | 313   |
| 1228 | Topsoil testing, MNDOT 3877B (with nutrients), per sample    | 387   |
| 1229 | Topsoil testing, MNDOT 3877B (nutrients only), per sample    | 87    |
| 1230 | Specialty testing  | Quote |
| 1234 | Extrusion of thin-walled tube, per sample                    | 36    |

**Construction Testing and Observations****Earthwork (excavation observation, compaction control testing, special foundation installations)**

|      |   |       |
|------|---|-------|
| 1308 | Nuclear moisture-density meter charge in addition to hourly rates in section "100 Personnel Services," per hour | 26    |
| 1310 | Field laboratory rental including utilities, if required  | Quote |
| 1318 | Proctor test, standard (ASTM D 698), per sample   | 212   |
| 6170 | Rush surcharge – Proctor test   | 49    |
| 1322 | One-point Proctor check   | 80    |
| 1324 | Maximum-minimum density of cohesionless soils (ASTM D 4523, D 4254), per sample                                 | 351   |

**Deep Foundation and Vibration**

|      |   |       |
|------|---|-------|
| 1340 | Special inspection of pile or drilled shaft installation. Hourly rates as shown in section "100 Personnel Services," plus vehicle and mileage | Quote |
| 1342 | Pile Driving Analyzer™ equipment rental, per day  | 644   |
| 1343 | Wave Equation analysis  | 314   |
| 1344 | CAPWAP analysis   | 515   |

**Seismograph monitor:**

|      |   |       |
|------|---|-------|
| 1346 | Monitor only, per day   | 210   |
| 1348 | Monitor only, per week  | 481   |
| 1349 | Monitor only, per month   | 976   |
| 1570 | With modem, per day   | 216   |
| 1571 | With modem, per week  | 504   |
| 1572 | With modem, per month   | 1,060 |
| 1573 | With X100 geophone, per day   | 221   |
| 1574 | With X100 geophone, per week  | 514   |
| 1575 | With X100 geophone, per month   | 1,107 |
| 1576 | With modem and X100 geophone, per day   | 227   |
| 1577 | With modem and X100 geophone, per week  | 538   |
| 1578 | With modem and X100 geophone, per month   | 1,192 |
| 1347 | Static or cyclic load testing equipment (compression, tension with environmental control) | Quote |

**Concrete**

|      |  |       |
|------|--|-------|
| 1356 | Theoretical concrete mix design based on ACI 211, per mix              | 348   |
| 1357 | Concrete strength development curve, each                              | 294   |
| 1373 | Maturity curve development (ASTM C 1074), each                         | 2,476 |
| 1374 | Temperature maturity sensor, each                                      | 80    |
| 1365 | Estimating the Cracking Tendency of concrete (AASHTO T334), per sample | 2,841 |
| 1393 | Coring of shotcrete panels, per panel                                  | 54    |

**Command Center PDA**

|      |  |       |
|------|--|-------|
| 5122 | Per week   | 88    |
| 5123 | Per month  | 234   |
| 1358 | Laboratory batching of concrete, per batch                         | 475   |
| 1361 | Quality control testing of concrete placement activities, per hour | Quote |

**Laboratory moist-curing of concrete delivered to laboratories**

|      |   |     |
|------|---|-----|
| 1364 | Compression strength of concrete cylinders (ASTM C 39), per specimen      | 34  |
| 1366 | Accelerated curing and testing (ASTM C 684), per specimen                 | 96  |
| 1367 | Flexural strength of beams (ASTM C 78 and ASTM C 293), per specimen       | 138 |
| 1368 | Splitting tensile strength of concrete (ASTM C 496), per specimen         | 104 |
| 1371 | Dry unit weight (ASTM C 567), per specimen                                | 131 |
| 1372 | Specific gravity and voids (ASTM C 642), per specimen                     | 249 |
| 1380 | Sawing of concrete unit (ASTM C 31), per cut                              | 15  |
| 5163 | Compressive Strength of Controlled Low Strength Material ASTM D4832, each | 47  |
| 5165 | Compressive Strength of Lightweight Insulating Concrete ASTM C495, each   | 47  |

**Concrete cylinder molds (includes labels and data slips)**

|      |   |     |
|------|---|-----|
| 1386 | Concrete cylinder molds (ASTM C 470), per mold                                      | 3   |
| 1392 | Cast in place cylinder molds (cippoc), per mold                                     | 42  |
| 1395 | Mold rental (cubes and beams), per use  | 52  |
| 1397 | Compressive strength of cast in place cylinders (cippoc) (ASTM C 873), per specimen | 87  |
| 1555 | Bit wear and patch material, per core   | 24  |
| 1400 | Core truck, per day, plus mileage   | 144 |
| 1401 | Compressive strength of concrete cores (ASTM C 42), per specimen                    | 126 |

**Petrographic*****No discounting will apply*****Petrographic analysis of concrete**

|      |  |       |
|------|--|-------|
| 1460 | (ASTM C 856 and C 457), per specimen   | 1,661 |
| 2101 | (ASTM C 856), per specimen   | 1,250 |
| 5182 | Observations only, per sample  | 650   |
| 5283 | Thin section only, per sample  | 650   |
| 2102 | Hardened air content analysis (ASTM C 457), per specimen   | 850   |
| 1742 | Petrographic analysis of course aggregate quarried material (ASTM C 295), limited to 7 screens, per sample | 2,153 |
| 2104 | Petrographic analysis of coarse aggregate - pit-run material, limited to 7 screens, per sample             | 2,447 |
| 2105 | Petrographic analysis of fine aggregate – quarried material (ASTM C 295), limited to 7 screens, per sample | 1,845 |
| 2108 | Petrographic analysis of aggregates, additional screens, per screen  | 357   |
| 2106 | Petrographic analysis of mortar (ASTM C 1324), per sample  | 2,550 |
| 3100 | X-Ray diffraction analysis (XRD), per sample   | 275   |
| 2109 | Fourier transform infrared analysis (FTIR), per sample   | 350   |
| 2110 | Other specialty testing  | Quote |

**Masonry****Concrete Masonry Units - Standard:**

|      |   |    |
|------|---|----|
| 1403 | Compressive strength - RWU (ASTM C 140), per specimen   | 52 |
| 1404 | Compressive strength - block (ASTM C 140), per specimen | 52 |

|                           |   |       |   |   |       |
|---------------------------|---|-------|---|---|-------|
| 1402                      | Absorption of RWU (ASTM C 140), per specimen  | 74    | <b>Mortar</b>   |   |       |
| 1406                      | Physical measurements and absorption (ASTM C 140), per specimen   | 76    | 1490  | Compressive strength of 2x2 mortar cube (ASTM C 109), per specimen            | 34    |
| 1407                      | Net area determination (ASTM C 140), per specimen   | 52    | 1493  | Compression testing of cylindrical mortar specimen (ASTM C 780), per specimen | 34    |
| 1408                      | Compressive strength of masonry prism assembly (ASTM C 1314), per specimen                                | 123   | 1516  | Prism testing (ASTM C 1072), per 5 mortar joints                              | 387   |
| 1409                      | Compressive strength – Hollow block prisms (ASTM C 1314), per specimen                                    | 208   | <b>Bituminous</b>   |   |       |
| 1411                      | Compressive strength – Grouted block prisms (ASTM C 1314), per specimen                                   | 258   | 1528  | Rice specific gravity (ASTM D 2041), per sample                               | 94    |
| 1412                      | Compressive strength of grout (ASTM C 1019), per specimen   | 76    | 1529  | Gyratory design point, per sample   | 266   |
| 1421                      | Linear shrinkage (ASTM C 426), set of 3 specimens   | 859   | 1530  | Asphalt content (ASTM D 2172/6307), per sample                                | 177   |
| 1424                      | Freeze/thaw of RWU (ASTM C 1262), per set of 5 specimens  | 974   | 1532  | Extracted aggregate gradation (ASTM D 5444), per sample                       | 121   |
| 1414                      | Unique testing  | Quote | 1534  | Marshall stability and flow (ASTM D 1559), per set of 3 specimens             | 74    |
| 1413                      | Freeze/thaw of brick (ASTM C 67), per set of 5 specimens  | 1,069 | 1540  | Marshall density testing (AASHTO T245), per set of 3 specimens                | 143   |
| 1431                      | Brick weight per unit area (ASTM C 67/C 216)  | 172   | 5342  | Thickness of pavement core (ASTM D 2726)                                      | 20    |
| 1434                      | Brick measurement of length change (ASTM C 67/C 216)  | 855   | 1542  | Thickness and density of pavement core (ASTM D 2726), per specimen            | 61    |
| 1438                      | Brick void area in deep frogged units (ASTM C 67/C 216)   | 341   | 5821  | Disc-shaped Compact Tension Test ASTM 7313 MNDOT Modified                     | 478   |
| 1415                      | Efflorescence of brick or masonry units (ASTM C 67), per set of 10 samples                                | 217   | 5822  | Semicircular Bend Test  | 372   |
| 1416                      | Initial rate of absorption (ASTM C 67), per set of 5 specimens  | 217   | 1545  | Draindown characteristics of asphalt (ASHTO T305 or ASTM D6390), per sample   | 130   |
| 1417                      | Compressive strength (ASTM C 67), per set of 5 specimens  | 197   | 1555  | Bit wear and patch material, per core   | 23    |
| 1418                      | Absorption and saturation coefficient (ASTM C 67), per set of 5 specimens                                 | 278   | 1558  | Lottman stripping (AASHTO T283), per sample                                   | 403   |
| 1419                      | Dimensional analysis (ASTM C 67), per set of 5 specimens  | 271   | 1562  | Laboratory mix design (Marshall), per mix                                     | Quote |
| 1423                      | Warpage (ASTM C 67), per set of 10 specimens  | 321   | 1563  | Laboratory mix design (Gyratory), per mix                                     | Quote |
| <b>Specialty Concrete</b> |   |       | 1567  | Resilient modulus of bituminous, per specimen                                 | Quote |
| 1427                      | Pachometer, per day   | 30    | 1568  | Gyratory gravity (AASHTO T312), per sample                                    | 212   |
| 1432                      | Compression of cast stone (ASTM C 11940), per set of 3  | 160   | 1569  | Mobile laboratory rental, per month   | Quote |
| 1433                      | Windsor probe, per day  | 75    | <b>Soil and Aggregate Testing for Concrete, Bituminous, Roofing, etc.</b> |   |       |
| 1437                      | Length change of hardened concrete (ASTM C 157), per set of 3 samples                                     | 560   | 1162  | Sieve analysis with 200 wash (ASTM C 136 and C 117), per sample               | 147   |
| 1439                      | Absorption of cast stone (ASTM C 1195), per set of 3  | 213   | 1166  | 200 wash (ASTM C 117), per sample   | 84    |
| 1441                      | Rapid freeze/thaw (ASTM C 666), per specimen  | 367   | 1684  | Lightweight particles 2.0 specific gravity (ASTM C 123), per sample           | 94    |
| 1448                      | Water-soluble chloride ion (ASTM C 1218), per sample  | 159   | 1685  | Lightweight particles 2.4 specific gravity (ASTM C 123), per sample           | 172   |
| 1449                      | Chloride, acid-soluble, concrete (ASTM C 1152), per sample  | 159   | 1686  | Lithological count (MNDOT 1209), per sample                                   | 148   |
| 1450                      | Bulk sample preparation, per sample   | 129   | 1688  | Percent crushed (ASTM D 5821), per sample                                     | 94    |
| 1456                      | Electrical indications of concrete's ability to resist chloride ion penetration (RCP ASTM 1202), per test | 560   | 1692  | Coarse aggregate specific gravity (ASTM C 127), per sample                    | 96    |
| 1459                      | Diffusivity coefficient (ASTM C 1556), per sample   | 1,507 | 1694  | Fine aggregate specific gravity (ASTM C 128), per sample                      | 143   |
| 1436                      | Pulse velocity meter, per day   | 30    | 1696  | Modified mill abrasion (Union Pacific), per sample                            | 151   |
| 1466                      | Setting time (ASTM C 403), per sample   | 366   | 1698  | Los Angeles Abrasion (ASTM C 131, C 535), per sample                          | 151   |
| <b>Cement</b>             |   |       | 1700  | Soundness, magnesium sulfate (ASTM C 88), per sample                          | 374   |
| 1476                      | Fineness of cement by air permeability – (ASTM C 204), per sample   | 110   | 1702  | Flat, elongated, and flat and elongated (ASTM D 4791), per sample             | 112   |
| 1480                      | Batching and casting mortar samples (ASTM C 305), per sample  | 210   | 1703  | Flakiness index (MNDOT 1223), per sample                                      | 184   |
| 1486                      | Mortar-aggregate ratio test (ASTM C 790 Annex A4), per specimen   | 100   | 1704  | Potential reactivity (ASTM C 289), per sample                                 | 1,428 |
| <b>Grout</b>              |   |       | 1429  | Potential reactivity of aggregates (ASTM C 1260), per sample                  | 923   |
| 3239                      | Thermal conductivity of Grout, each   | 143   | 1705  | Fine aggregate angularity (ASTM C 1252), per sample                           | 90    |
| 3237                      | Thermal conductivity of Portland Cement, each   | 202   | 1706  | Unit weight (ASTM C 29), per test   | 84    |
|                           |   |       | 1708  | Mill abrasion (Union Pacific), per sample                                     | 151   |
|                           |   |       | 1712  | Moisture content (ASTM C 566), per sample                                     | 30    |
|                           |   |       | 1716  | Organic impurities (ASTM C 40), per sample                                    | 74    |
|                           |   |       | 1718  | Clay lumps (ASTM C 142), per sample, per size tested                          | 149   |
|                           |   |       | 1720  | Freeze-thaw (AASHTO T103)   | 372   |

|  |  |       |                                      |   |       |
|--|--|-------|--------------------------------------|---|-------|
| <b>Insoluble residue (MNDOT)</b>               |  |       | <b>Computed radiography</b>          |   |       |
| 1724   | Insoluble residue (MNDOT 1221), sample prep only   | 50    | 5431                                 | Equipment only, per day   | 579   |
| 1732   | Hveem stabilometer R-Value (MNDOT 1307), per sample                                      | 522   | 5432                                 | Equipment and labor, per day                                    | Quote |
| 1734   | California bearing ratio (ASTM D 1883), per molded specimen                              | 345   | <b>Welding Operator Examination</b>  |   |       |
| 1738   | Sample crushing, per hour  | 104   | 1604                                 | Bend tests  | Quote |
| 1739   | Resilient modulus of fine grain soils (molded), per sample                               | 492   | 1611                                 | Radiography, AWS D1.1   | 146   |
| 1761   | Resilient modulus of coarse grain soils and aggregate, per sample                        | 525   | 1612                                 | Bend tests, AWS D1.1  | 250   |
| 1741   | Sand equivalent (ASTM D 2419), per sample  | 151   | 1613                                 | Radiography, ASME/ANSI  | 150   |
| <b>Stone</b>                                   |  |       | 1623                                 | AWS D1.5 qualification  | 180   |
| 1746   | Compressive strength stone, includes end cutting (ASTM C 170), per sample                | 129   | <b>Weld Procedure Qualifications</b> |   |       |
| 1747   | Unconfined compressive strength of intact rock core specimen (ASTM D 7012), per specimen | 129   | 1619                                 | AWS D1.1  | Quote |
| 1751   | Coefficient of linear thermal expansion (ASTM D 5335), per sample                        | Quote | 5569                                 | Charpy test   | Quote |
| <b>Geosynthetic and Pond Liner</b>             |  |       | 5572                                 | Write WPS, per hour   | 290   |
| 1753   | Shear/peel test on field seams (HDPE, VLDPE), per sample                                 | 170   | <b>NDE Equipment, per day</b>        |   |       |
| 1754   | Material property testing  | Quote | 1626                                 | MT yoke   | 31    |
| <b>Fire-Resistive Materials</b>                |  |       | 6756                                 | Black light   | 36    |
| 1784   | Thickness/Density, laboratory determination  | 59    | 5567                                 | Brinell hardness bars   | 31    |
| 1785   | Adhesion/Cohesion testing, per test  | 48    | 2210                                 | Ultrasonic thickness gauge                                      | 68    |
| <b>Other Specialty Testing</b>                 |  |       | 5269                                 | Ultrasonic shearwave  | 118   |
| 1470   | Moisture vapor emission rate testing kit (ASTM F 1869), per kit                          | 41    | <b>NDE Consumables</b>               |   |       |
| 1471   | Relative humidity probe (ASTM F 2170), per probe   | 78    | 1630                                 | Consumable dry powder, per pound                                | 36    |
| 1793   | Tensile test   | 125   | 1633                                 | Portable visible spray, per can                                 | 36    |
| 1794   | Floor flatness   | Quote | 1634                                 | Portable fluorescent spray, per can                             | 36    |
| 1795   | Dipstick rental (one week minimum), per week   | 752   | 1636                                 | Portable developer, per can                                     | 36    |
| 1796   | Dipstick rental (one week minimum), per additional day                                   | 222   | 1637                                 | Portable cleaner, per can                                       | 36    |
| 1797   | Anchor testing, per test   | Quote | 1638                                 | Portable visible penetrant, per can                             | 36    |
| 3701   | Infrared camera, hourly  | 88    | 1639                                 | Portable fluorescent penetrant, per can                         | 36    |
| <b>Air meter</b>                               |  |       | 1642                                 | Cellulose gum (with certifications), per quart                  | 68    |
| 1828   | Rebuild, full  | 115   | 1643                                 | High temperature couplant, per 4 oz. tube                       | 167   |
| 1820   | Parts, each  | Quote | 1646                                 | 4-1/2" x 10" film   | 7     |
| <b>Nondestructive Examination Services</b>     |  |       | 1647                                 | 4-1/2" x 17" film   | 11    |
| 1602   | Computed radiography, per section "100 Personnel Services"                               | Quote | 1648                                 | 14" x 17" film  | 39    |
| 1629   | Magnetic particle examination, per section "100 Personnel Services"                      | Quote | 1649                                 | 8" x 10" film   | 11    |
| 1635   | Liquid penetrant examination, per section "100 Personnel Services"                       | Quote | 1650                                 | 5" x 7" film  | 7     |
| 1640   | Ultrasonic examination, per section "100 Personnel Services"                             | Quote | 1651                                 | 7" x 17" film   | 20    |
| <b>Infrared</b>                                |  |       | <b>70mm film, per weld</b>           |   |       |
| 1658   | Report   | Quote | 5440                                 | Up to 6"  | 21    |
| 1699   | Thermographic imaging (minimum charge)   | Quote | 5441                                 | 8" - 12"  | 27    |
| <b>Positive materials identification (PMI)</b> |  |       | 5442                                 | 14" - 18"   | 34    |
| 1654   | Equipment only, per hour   | 60    | 5443                                 | 20" - 24"   | 41    |
| 1659   | Equipment only, per day  | 250   | 5444                                 | 26" - 30"   | 49    |
| 1668   | Radiography, iridium, per shot   | Quote | 5446                                 | 32" - 36"   | 61    |
|  |  |       | <b>Geophysical Testing</b>           |   |       |
|  |  |       | 259                                  | Ground penetrating radar, per hour                              | 210   |
|  |  |       | 1443                                 | Ground penetrating radar, per hour on site (includes equipment) | 210   |
|  |  |       | 1447                                 | Ground penetrating radar, per project                           | Quote |
|  |  |       | 8640                                 | Mobilization for ground penetrating radar, per trip             | 256   |
|  |  |       | <b>Coatings</b>                      |   |       |
|  |  |       | 617                                  | Inspections, per hour   | 130   |
|  |  |       | 627                                  | Inspections, NACE certified, per hour                           | 170   |
|  |  |       | 637                                  | Specification review, per hour                                  | 219   |
|  |  |       | 1606                                 | PosiTest AT Adhesion Tester, per Day                            | 58    |
|  |  |       | 1607                                 | Elcometer 270 Holiday detector, per day                         | 58    |
|  |  |       | 1608                                 | Adhesion tests, 20 MM, each                                     | 49    |
|  |  |       | 2210                                 | Ultrasonic thickness gauge, per day                             | 68    |

**NDE Miscellaneous Expense**

|      |                                  |       |
|------|----------------------------------|-------|
| 1660 | Vehicle, per day                 | 48    |
| 1661 | Vehicle mileage, per mile        | Quote |
| 1662 | Mobile darkroom, per day         | 84    |
| 1663 | Mobile darkroom, per mile        | Quote |
| 1653 | Radiography transponder, per day | 71    |
| 1664 | Trip charge                      | Quote |
| 1666 | Report                           | 515   |

**Environmental Site Evaluation Services**

|      |                          |     |
|------|--------------------------|-----|
| 5000 | Generator, per day       | 113 |
| 5003 | Grundfos Pump, per day   | 239 |
| 3001 | Peristaltic Pump per day | 62  |

**Submersible pump (40')**

|      |          |    |
|------|----------|----|
| 5005 | Per day  | 31 |
| 5006 | Per week | 82 |

|      |                                       |       |
|------|---------------------------------------|-------|
| 3103 | Colorimeter (Hach DR\890), per day    | Quote |
| 3093 | Field test kit, per reagent parameter | 20    |
| 5018 | Ordinary consumables, per well        | 22    |

**Solinst Levellogger 3001**

|      |           |     |
|------|-----------|-----|
| 5137 | Per day   | 79  |
| 5138 | Per week  | 234 |
| 5139 | Per month | 700 |

**YSI 556 water quality meter**

|      |          |     |
|------|----------|-----|
| 5019 | Per hour | 70  |
| 5020 | Per day  | 258 |
| 5021 | Per week | 654 |

|      |                                   |    |
|------|-----------------------------------|----|
| 5025 | Disposable bailer, each           | 22 |
| 5027 | Field filtering water, per sample | 36 |

**Interface probe**

|      |          |    |
|------|----------|----|
| 5080 | Per hour | 22 |
| 5081 | Per day  | 85 |

**Water level tape**

|      |          |     |
|------|----------|-----|
| 5083 | Per hour | 19  |
| 5084 | Per day  | 57  |
| 5085 | Per week | 227 |

|      |               |     |
|------|---------------|-----|
| 3106 | Boat, per day | 221 |
|------|---------------|-----|

**Field Analysis/Air Quality**

|                    |          |     |
|--------------------|----------|-----|
| PID w/10.6 eV lamp |          |     |
| 5035               | Per hour | 41  |
| 5036               | Per day  | 175 |
| 5037               | Per week | 525 |

**PID w/11.8 eV lamp**

|      |          |     |
|------|----------|-----|
| 5038 | Per hour | 47  |
| 5039 | Per day  | 216 |
| 5040 | Per week | 649 |

**MSA Orion 4-gas meter**

|      |          |     |
|------|----------|-----|
| 5043 | Per hour | 31  |
| 5044 | Per day  | 134 |
| 5045 | Per week | 402 |

**Landtec methane monitor**

|      |          |     |
|------|----------|-----|
| 5050 | Per day  | 170 |
| 5051 | Per week | 510 |

**PDR-1000 aerosol dust monitor**

|      |          |     |
|------|----------|-----|
| 5053 | Per day  | 155 |
| 5054 | Per week | 479 |

**Lumex mercury vapor analyzer**

|      |          |       |
|------|----------|-------|
| 5063 | Per day  | 567   |
| 5064 | Per week | 1,947 |

**Apex air sampling pump**

|      |         |    |
|------|---------|----|
| 5135 | Per day | 72 |
|------|---------|----|

|      |   |    |
|------|---|----|
| 3105 | Rotary hammer drill, bit rental and wear, per day | 80 |
| 5056 | Video camera rental, per day                      | 66 |
| 5057 | Radon canister, each                              | 26 |
| 5092 | Master locks #2106 (brass), each                  | 31 |

**Industrial Hygiene Equipment/Supplies**

|      |                        |       |
|------|------------------------|-------|
| 5065 | Q-Trak IAQ monitor     | Quote |
| 5066 | Dustrak monitor        | Quote |
| 5068 | Filter cassettes, each | Quote |
| 5070 | Draeger tubes, each    | Quote |

**Air sampling pump**

|      |          |     |
|------|----------|-----|
| 5072 | Per day  | 62  |
| 5073 | Per week | 185 |

|      |  |       |
|------|--|-------|
| 5074 | Draeger pump, per day                      | 35    |
| 5076 | Noise dosimeter/sound level meter, per day | Quote |

**XRF spectrum analyzer**

|      |          |     |
|------|----------|-----|
| 5086 | Per hour | 134 |
| 5087 | Per day  | 639 |

|      |                        |       |
|------|------------------------|-------|
| 5105 | Ventilation smoke tube | Quote |
| 5106 | Andersen sampler       | Quote |
| 5107 | High volume pump       | Quote |
| 5111 | Zefon filter, each     | 11    |
| 5118 | Moisture meter         | Quote |

**Safety Plans/Equipment**

|      |   |       |
|------|---|-------|
| 5067 | Develop and review Health & Safety Plan for Braun Intertec use only | Quote |
| 540  | Develop/Review Health Safety Plans                                  | 191   |

**Miscellaneous Equipment Rental/Supplies****Trimble GeoXH GPS (sub-meter horizontal only)**

|      |          |     |
|------|----------|-----|
| 5096 | Per hour | 31  |
| 5097 | Per day  | 120 |
| 5098 | Per week | 522 |

**Trimble R8 Rover GPS (horizontal and vertical)**

|      |          |       |
|------|----------|-------|
| 5099 | Per hour | 67    |
| 5100 | Per day  | 358   |
| 5101 | Per week | 1,289 |

**Unmanned Aerial Systems (UAS)**

|      |         |       |
|------|---------|-------|
| 3759 | Per day | 2,712 |
|------|---------|-------|

**Reliance Letter, per addressee**

Greater of \$1,000 or 10% of original project fee

**Pavement Evaluation Services**

**Nondestructive testing and analysis flexible pavements**

|      |  |       |
|------|--|-------|
| 8560 | Parking lot testing and evaluation services          | Quote |
| 8510 | Surface condition survey, per hour                   | Quote |
| 8620 | Falling Weight Deflectometer (FWD) testing, per hour | 468   |
| 8640 | Mobilization   | 264   |

**Expenses**

|      |                           |       |
|------|---------------------------|-------|
| 1854 | Vehicle, per day          | 50    |
| 1856 | Vehicle, per mile         | Quote |
| 1861 | CMT Trip charge, per trip | Quote |

**Personnel Services, Per Hour**

|     |                                    |     |
|-----|------------------------------------|-----|
| 121 | Engineer-in-training               | 146 |
| 118 | Staff Engineer                     | 157 |
| 320 | Staff Scientist                    | 152 |
| 157 | Staff Architect                    | 170 |
| 327 | Industrial Hygienist               | 191 |
| 156 | Project Architect                  | 180 |
| 126 | Project Engineer                   | 191 |
| 330 | Project Scientist                  | 185 |
| 158 | Senior Architect                   | 206 |
| 128 | Senior Engineer                    | 214 |
| 340 | Senior Scientist                   | 208 |
| 338 | Senior Industrial Hygienist        | 235 |
| 155 | Principal Architect                | 232 |
| 130 | Principal Engineer                 | 259 |
| 350 | Principal Scientist                | 251 |
| 257 | Forensic Engineer/Architect Expert | 272 |
| 226 | Project Manager                    | 191 |
| 228 | Senior Project Manager             | 214 |

Rates for litigation support services will include a surcharge

**Building Sciences (BldgSci)**

|     |                                    |     |
|-----|------------------------------------|-----|
| 160 | Building Sciences Technologist I   | 130 |
| 161 | Building Sciences Technologist II  | 138 |
| 162 | Building Sciences Technologist III | 160 |
| 163 | Building Sciences Technologist IV  | 174 |

**Field and office services, regular hourly rates\***

|     |                        |     |
|-----|------------------------|-----|
| 102 | Technician I           | 90  |
| 106 | Technician II          | 107 |
| 110 | Technician III         | 123 |
| 111 | Technician IV          | 136 |
| 138 | Project Assistant      | 104 |
| 371 | CADD/Graphics Operator | 130 |
| 375 | GIS Technician         | 130 |

**Nondestructive Examination (NDE) Technicians, regular hourly rates\*\***

|     |   |     |
|-----|---|-----|
| 108 | Level II NDE Technician                     | 123 |
| 629 | Magnetic Particle                           |     |
| 635 | Liquid Penetrant                            |     |
| 640 | Ultrasonic Examination                      |     |
| 645 | Solo Technician-Radiography                 |     |
| 112 | AWS-Certified Weld Inspector                | 130 |
| 613 | Radiography, two-man crew (IR-192)          | 197 |
| 619 | Radiography, three-man crew (IR-192)        | 276 |
| 254 | PMI (positive material identifier) services | 236 |
| 615 | Radiography, two-man crew (Co-60)***        | 259 |
| 107 | API 510/570/653 Technician                  | 146 |
| 117 | Level III NDE services                      | 170 |
| 602 | Computed Radiography (CR)                   | 332 |
| 643 | Phased array two man crew, per hour         | 200 |

Reduced weekly and monthly rates available for continuous service. Regular hourly rates apply during normal work hours of 7 AM to 4 PM, Monday through Friday. Services provided to meet project requirements or the contractor's construction schedule outside the normal work hours or exceeding 8 hours per day will be invoiced using an overtime rate factor.

\* The factor for services provided outside the normal work hours or on Saturday will 1.25 times the regular hourly rate for the service provided. The factor for services provided on Sunday or legal holidays will be 1.5 times the regular hourly rate for the service provided

\*\* The factor for NDE services provided outside the normal work hours or on Saturday will 1.35 times the regular hourly rate for the service provided. The factor for services provided on Sunday or legal holidays will be 1.85 times the regular hourly rate for the service provided

\*\*\* Co-60 work may require a three-man crew. Code 615 plus Assistant code 614