

**PROFESSIONAL SERVICES AGREEMENT
BETWEEN
MADISON COUNTY BOARD OF SUPERVISORS
AND
MISSISSIPPI ENGINEERING GROUP, INC.**



This **PROFESSIONAL SERVICES AGREEMENT** (this “Agreement”) is made by and between:

Name: Madison County Board of Supervisors
Address: 125 West North Street, Canton, MS 39046
Telephone: (601) 790-2590
Representative: Hon. Gerald Steen, President

(referred to in this Agreement as “CLIENT”)

AND

Name: Mississippi Engineering Group, Inc.
Address: 143-A LeFleurs Square, Jackson, MS 39211
Telephone: (601) 355-9526
Representative: Joe A. Waggoner, PE, PLS, Chairman

(referred to in this Agreement as “MSEG”), in connection with the I-55 Overpass and Roadway Connections from Bozeman Road to Parkway East (the “Project”), effective as of the 21st day of January 2020 (the “Effective Date”).

In consideration of the mutual covenants and promises set forth in this Agreement, CLIENT and MSEG agree as follows:

1. **SERVICES.** CLIENT hereby engages MSEG to perform or furnish the professional engineering and related services (“Services”) described on Exhibit A attached to and made part of this Agreement (the “Scope of Services”) as part of the Project.

Client may request MSEG to perform additional services not described in the Scope of Services (“Additional Services”), regardless whether related to the Project. Such additional services shall be approved by the CLIENT prior to the performance of said services. Unless agreed otherwise by MSEG, CLIENT shall compensate MSEG for Additional Services on an hourly basis using the rates attached to this Agreement as Exhibit B. MSEG reserves the right to require written authorization by CLIENT prior to performing any Additional Services.

- (a) **Standards of Practice.** MSEG will perform the Services in a manner consistent with the level of care and skill ordinarily exercised by members of the profession currently practicing in the same locality under similar conditions. MSEG makes no other representation or warranty regarding its Services. CLIENT may not infer any additional or different representation or warranty by MSEG from any report, opinion, document or other communication made by or on behalf of MSEG.

- (b) **Changes in Scope of Services.** The Scope of Services described in Exhibit A is based on facts known at the time of execution, including, if applicable, information supplied by CLIENT. Changes in the Scope of Services will result in a change in agreed upon compensation if the change in Scope of Services changes the amount of work or expertise required of MSEG.

2. **COMPENSATION.**

- (a) CLIENT shall compensate MSEG for the Services provided on an hourly basis in accordance with the rate schedule attached to this Agreement as Exhibit B. CLIENT shall also reimburse MSEG for all reasonable expenses incurred in the performance of the Services, to include printing, travel, and equipment use in accordance with Exhibit B. Exhibit C sets forth an estimate of the cost of performance of the Scope of Services by task.
- (b) MSEG will invoice CLIENT monthly based upon the work completed during the billing period, and CLIENT shall pay MSEG within 30 days after receipt of MSEG's monthly invoice. Any invoice not paid within forty-five days of receipt shall bear interest at the rate of 1.5% per month in accordance with MISS. CODE ANN. § 31-7-305.

3. **TERM OF AGREEMENT; SCHEDULE OF PERFORMANCE.**

- (a) This Agreement shall be effective as of the Effective Date and shall continue, unless sooner terminated in accordance with the provisions of this Agreement. Exhibit D sets forth the project schedule.
- (b) In the event of any delays in performance of the Services through no fault of MSEG, MSEG shall be entitled to an equitable adjustment in compensation to address increased costs of performing the Services.

4. **CLIENT RESPONSIBILITIES.**

- (a) **Information/Reports.** CLIENT shall furnish MSEG with all applicable reports, studies, site characterizations, regulatory orders and similar information in its possession relating to the Services to be performed by MSEG. Unless specified otherwise in the Scope of Services, in performing the Services, MSEG may rely upon CLIENT-furnished information without independent verification.
- (b) **Representative.** CLIENT shall designate a representative who shall have authority to transmit instructions, receive information, interpret and define CLIENT's policies and make decisions with respect to the Services performed.
- (c) **Decisions.** CLIENT shall provide all criteria and full information as to Client's requirements for the Project, obtain necessary approvals and permits (unless specified otherwise in Exhibit A), attend project meetings, provide interim reviews on an agreed-upon schedule, make decisions as to project alternatives, and

generally participate in the project to the extent necessary to enable MSEG to performance the Services in a timely and efficient manner.

- (d) **Access.** CLIENT shall provide MSEG safe access to the project site and any other premises under Client's control necessary for MSEG to perform or provide the Services.
- (e) **Utilities and Other Underground Improvements.** CLIENT shall furnish to MSEG information identifying the type and location of any underground utilities or other underground improvements that affect the Services. As part of any design, testing or other Services that include ground penetrations, MSEG will prepare one or more plans that show the locations intended for subsurface penetrations for CLIENT's approval. CLIENT agrees, to the fullest extent permitted by law, to waive all claims and causes of action against MSEG and anyone for whom MSEG may be legally liable for damages to underground improvements that result from subsurface penetrations shown on the plans submitted to CLIENT for approval. CLIENT further agrees, to the fullest extent permitted by law, to indemnify, defend and hold MSEG and its subconsultants harmless from any damage, liability or cost, including reasonable attorneys' fees and defense costs, for any property damage, injury or economic loss arising or allegedly arising from subsurface penetrations in locations authorized by Client or from inaccuracy of information provided to MSEG by Client, except for damages caused by the sole negligence of MSEG in its use of Client-furnished information.

5. **OWNERSHIP OF INSTRUMENTS OF SERVICE.** Drawings, specifications, reports, and other documents prepared by MSEG in connection with any or all of the services furnished hereunder shall be the property of the CLIENT. MSEG shall have the right to retain copies of all documents and drawings for its files. All documents, including drawings and specifications furnished by MSEG pursuant to this Agreement, are intended for use on the specified project only CLIENT agrees they should not be used by CLIENT or others on extensions of the specified project or any other project. Any reuse, without written verification or adaption by MSEG, shall be at the CLIENT'S SOLE RISK

6. **PROVISIONS APPLICABLE TO PARTICULAR TYPES OF SERVICES.**

- (a) **Construction Observation.**
 - (i) If MSEG is retained to provide construction observation services, MSEG shall visit the Project at appropriate intervals during construction to become generally familiar with the progress and quality of the contractors' work and to determine if the contractor's work is proceeding in general accordance with the plans and specifications for the Project. Client has not retained MSEG to make detailed inspections or to provide exhaustive or continuous review and observation of any construction or other services provided by a third party. MSEG does not guarantee the performance of, and shall have no responsibility for, the acts or omissions of any contractor, subcontractor, supplier, or any other entity furnishing materials or performing any work in

connection with the Project. Further, Client waives all claims against MSEG arising from or in any way connected with errors, omissions, conflicts or ambiguities in any plans and specifications prepared by others. In addition, Client agrees, to the fullest extent permitted by law, to indemnify, defend and hold MSEG harmless from any damage, liability or cost, (including reasonable attorney's fees and defense costs), arising from any errors or omissions contained in the plans, specifications or other contract documents prepared by others.

- (i) If the Scope of Services does not include observation or review of the performance by MSEG of any construction or other third-party services, CLIENT assumes all responsibility for interpretation of the plans, specifications and other contract documents and for construction observation and supervision and waives any claims against MSEG that may be in any way connected thereto. Further, Client agrees, to the fullest extent permitted by law, to indemnify, defend and hold MSEG harmless from any loss, claim or cost, including reasonable attorneys' fees and costs of defense, arising or resulting from the performance of such services by other persons or entities.

(b) **Hazardous Materials.**

- (i) The Scope of Services does not include any services related to investigations for or abatement or remediation of hazardous or toxic materials ("Hazardous Materials"). In the event MSEG or any other party encounters any Hazardous Materials at any project site, or should it become known in any way that Hazardous Materials may be present at the any project site or any adjacent areas that may affect the performance of the Services, MSEG may, at its option and without liability for consequential or any other damages, suspend performance of the Services (in whole or in part) until CLIENT retains appropriate specialist consultant(s) or contractor(s) to identify, abate and/or remove the Hazardous Materials.
- (ii) CLIENT shall furnish or cause to be furnished to MSEG all documents and information known or available to CLIENT that relate to the identity, location, quantity, nature, or characteristic of any Hazardous Materials at or near each project site, and shall immediately transmit new, updated, or revised information as it becomes available. In no event shall MSEG be required to sign a hazardous waste manifest or take title to any Hazardous Materials. CLIENT shall have the obligation to make all spill or release notifications to appropriate government agencies.

- (c) **Testing and Observation.** CLIENT understands that testing and observation are discrete sampling procedures, and that such procedures indicate conditions only at the depths, locations, and times the procedures were performed. CLIENT is

responsible (even if delegated to contractor) for requesting any additional testing services that CLIENT deems appropriate for the Project beyond that provided in the Scope of Services. MSEG's performance of testing and observation services shall not relieve CLIENT's contractor in any way from its responsibility for defects in its work or create a warranty or guarantee by MSEG. MSEG will not supervise or direct the work performed by CLIENT's contractor or its subcontractors, and neither any testing nor construction observation performed by MSEG shall result in MSEG being or becoming responsible for means and methods of construction.

- (d) **Testing Laboratory Services.** All laboratory testing services will be performed by a third party. CLIENT understands that MSEG may not be knowledgeable in the procedures of the testing laboratory's services and will not rely upon MSEG to verify the quality or accuracy of the testing laboratory's reports.
- (e) **Sample Disposition Upon Completion of Testing.** Unless specified otherwise in the Scope of Services, material samples will be considered consumed in testing and will be disposed of upon completion of the tests.

7. **INSURANCE.** Throughout the term of this Agreement, MSEG shall maintain the following minimum insurance coverages:

- (a) Workers' compensation insurance in such amounts as may be required under the laws of the State of Mississippi.
- (b) Comprehensive general liability insurance with limits of not less than \$1,000,000 per occurrence and \$2,000,000 aggregate.
- (c) Automobile liability insurance with a combined single limit of not less than \$1,000,000.
- (d) Professional liability insurance in an amount of not less than \$1,000,000 annual aggregate, on a claims-made basis.

At CLIENT's request, MSEG shall add CLIENT as an additional insured under MSEG's automobile liability and general liability policies, but only with respect to the Services.

8. **TERMINATION.** Either CLIENT or MSEG may terminate this Agreement at any time with or without cause upon giving the other party seven (7) calendar days prior, written notice. CLIENT shall pay MSEG for all Services performed and all costs incurred up to the date of termination within thirty (30) calendar days of the date of termination.

9. **DISPUTE RESOLUTION.** The parties agree to attempt to settle any disputes arising under this Agreement in an amicable manner through discussions between the parties' senior management representatives. If a dispute cannot be resolved in this manner within a reasonable parties of time, the parties agree to submit the matter to non-binding mediation prior to filing any legal proceedings. Mediation shall be conducted in accordance with the mediation Rules of the American Arbitration Association with the parties sharing the cost of the mediator(s) equally. In the event any actions are brought to enforce this Agreement,

the prevailing party shall be entitled to collect its litigation costs (including reasonable attorneys' fees and expenses, costs of investigation and other costs of litigation) from the other party.

10. **CONSEQUENTIAL DAMAGES.** Notwithstanding any other provision of the Agreement, neither party shall be liable to the other for any consequential damages incurred due to the fault of the other party, regardless of the nature of the fault or whether it was committed by CLIENT or MSEG, their employees, agents, subconsultants or subcontractors. Consequential damages include, but are not limited to, loss of use and loss of profit.
11. **NOTICES.** Any notice required to be given under this Agreement shall be given in writing, and shall be effective when actually delivered, one business day after deposit with a nationally recognized overnight courier, delivery fees prepaid, or, if mailed, three business days after deposit in the United States mail, as first class, certified or registered mail postage prepaid, directed to the addresses shown below:

CLIENT: Madison County Board of Supervisors
125 West North Street
Canton, MS 39046
Telephone: (601) 790-2590

Attention: Shelton Vance, County Administrator

MSEG: 143-A LeFleur's Square
Jackson, Mississippi 39211
Telephone: (601) 355-9526

Attention: Hunter T. Arnold, PE

Any party may change its address for notices under this Agreement by giving formal written notice to the other parties, specifying that the purpose of the notice is to change the party's address.

12. **GENERAL PROVISIONS.**

- (a) **Amendments.** This Agreement represents the complete agreement between CLIENT and MSEG with respect to the subject matter hereof and may only be amended, supplemented, or modified by a duly executed instrument approved by both parties.
- (b) **Third Party Beneficiaries.** Nothing contained in this Agreement shall create a contractual relationship with or a cause of action in favor of a third party against either CLIENT or MSEG. MSEG's Services under this Agreement are being performed solely for Client's benefit, and no other entity, including CLIENT's contractors, shall have any claim against MSEG because of this Agreement or the performance or nonperformance of any Services under this Agreement.

- (c) **Delays.** If events beyond the control of CLIENT or MSEG, including, but not limited to, fire, flood, explosion, riot, strike, war, process shutdown, act of God or the public enemy, and act or regulation of any government agency, result in delay to any schedule established in this Agreement, such schedule shall be amended to the extent necessary to compensate for such delay. In the event such delay exceeds 60 days, MSEG shall be entitled to an equitable adjustment in compensation.
- (d) **Safety.** MSEG shall have no responsibility for or control over general job site safety of persons other than MSEG employees.
- (e) **Construction Means, Methods, Techniques.** MSEG shall not have any responsibility for or control over any contractors means, methods, techniques or sequencing of any work.

IN WITNESS WHEREOF, the parties hereto have caused this Agreement to be executed by their duly authorized representatives effective as of the date set forth above.

**MADISON COUNTY
BOARD OF SUPERVISORS**

MISSISSIPPI ENGINEERING GROUP, INC.

By: _____

By: _____

Title: _____

Title: _____

Exhibit A
MSEG
Scope of Work

SCOPE OF WORK

This CONSULTANT shall provide all necessary professional services required to complete on-site field review, prepare final right of way plans, prepare maps and deeds, delineate wetlands and other waters of the U.S., prepare wetlands and other waters permit, complete final roadway and hydraulic design, prepare final LRFD structural design of bridges, retaining walls and appurtenances, design traffic signals (2). The project location for these services includes **Reunion Parkway Phase II**, which crosses Interstate 55 approximately two (2) miles north of exit 108 and intersects with Bozeman Road at its Western termini while intersecting with Parkway East at its Eastern Termini, the total of which lies wholly in Madison County. The CONSULTANT shall prepare plans, specifications, and estimates in accordance with MDOT's LPA Project Development Manual.

The following engineering services shall be performed by the CONSULTANT on behalf of the Madison County Board of Supervisors (MCBOS), the CLIENT, in accordance with this CONTRACT at the direction of the MCBOS.

A project timeline is required. Work is to proceed in accordance with the project timeline. The following engineering services shall be performed by the CONSULTANT in accordance with this CONTRACT and the latest Project Development Manual (PDM) for the LPA at the time of the execution of this contract. Where this CONTRACT and the PDM differ, the PDM shall govern.

A monthly status report along with an updated project schedule is required. This report is to be submitted by the CONSULTANT to the MCBOS with each monthly invoice. This monthly report will update the MCBOS on the status of the project. Recent milestones in plan development, such as the submittal of plans for review, shall be documented. Also, the target dates for the future milestones should be included.

Surveys, if required, shall at all times comply with the following:

1. MDOT Survey Manual;
2. Mississippi Board of Registration for Professional Engineers and Land Surveyor's "Standards of Practice for Surveying" in Mississippi. All traverses and right of way monument locations (being set) shall meet with Class "A" of the standards of practice specifications and traverses shall be properly adjusted according to good surveying practices. Side ties or other locations of improvements or features shall meet the class specification normally required by said minimum standards;
3. Land Surveying laws as defined in the Mississippi Code of 1972 as well as current case law including interpretations of those laws by the judicial branches of the United States and State of Mississippi governments;
4. Local Zoning and Subdivision laws and regulations in the project area. (Properties falling within the required right of way are not subject to these regulations. However, the remainder portion of the original tract may be affected by the MDOT acquisitions.); and
5. Specific instructions as required by the Mississippi Department of Transportation on individual Projects.

TYPICAL ITEMS/MATERIALS PROVIDED BY THE MCBOS:

Based upon availability, the CLIENT will provide within normal resources, the following:

1. Copies of previous studies/analyses, environmental assessments, conceptual plan, and other information pertaining to the project;
2. Names, addresses, and telephone numbers of points of contact which may prove useful to the CONSULTANT in conducting this analysis;
3. A single point of contact within the MCBOS for day-to-day coordination of each CONTRACT;
4. Computer files (depending on availability) may include Computer Aided Design and Drafting (CADD) files, GIS data, or Survey Control Points set by other Surveyors on or near the project employed by the MCBOS;
5. Plans and other related materials for adjacent projects having potential impacts on the planned execution of this project.

GENERAL REQUIREMENTS:

As directed, the CONSULTANT shall provide engineering/technical assistance to perform specific assignments requiring needed expertise or staff resources unavailable to the CLIENT.

Manuals, guides, and specifications applicable to this CONTRACT shall be those approved and adopted by the MDOT and in effect on the effective date this CONTRACT unless otherwise specified in the CONTRACT or subsequently directed by the MDOT during the course of this CONTRACT. Geometric design criteria for the mainline segment of Reunion Parkway Phase II shall be established using the MDOT Roadway Design Manual dated 2001.

Unless otherwise instructed by CLIENT, the CONSULTANT shall comply with the current version of the following publications:

Roadway Design:

- A. MDOT *Roadway Design Manual*, and supplemented with updated design policies as described in Design Memos located on Roadway Design Division's website;
- B. MDOT Roadway Design Standard Drawings;
- C. MDOT Roadway Design Special Design Sheets;
- D. MDOT *Roadway Design CADD Manual*;
- E. MDOT *Survey Manual*;
- F. MDOT *Access Management Manual*;
- G. MDOT Traffic Engineering's *Typical Signing Details*;
- H. MDOT *Intelligent Transportation Systems Design Manual*;
- I. *Mississippi Standard Specifications for Road and Bridge Construction*;
- J. AASHTO'S *A Policy on Geometric Design of Highways and Streets*;
- K. AASHTO *Roadside Design Guide*;
- L. AASHTO *Highway Safety Manual (HSM)*;
- M. *Manual on Uniform Traffic Control Devices (MUTCD)*; and
- N. Any other publications listed in Exhibit 8, or as instructed by MDOT.

Bridge Design and Rating:

- A. MDOT *Bridge Design Manual*;
- B. MDOT *Bridge Division CADD Manual*;
- C. MDOT Bridge Standard Drawings;
- D. MDOT Bridge Design Memos;
- E. *Mississippi Standard Specifications for Road and Bridge Construction*;
- F. MDOT *Bridge Safety Inspection Policy and Procedure Manual*;
- G. National Bridge Inspection Standards (NBIS);
- H. AASHTO LRFD *Bridge Design Specifications*;
- I. AASHTO *Guide Specifications for LRFD Seismic Bridge Design*;
- J. AASHTO LRFD *Specifications for Structural Supports for Highway Signs, Luminaires and Traffic Signals*;
- K. AASHTO LRFD *Guide Specifications for the Design of Pedestrian Bridges*;
- L. AASHTO LRFD *Movable Highway Bridge Design Specifications*;
- M. AASHTO/AWS D1.5M/D1.5 *Bridge Welding Code*;
- N. AASHTO *Guide Specification and Commentary for Vessel Collision Design of Highway Bridges*;
- O. AASHTO *Guide Specifications for Bridges Vulnerable to Coastal Storms*;
- P. AASHTO LRFD *Bridge Construction Specifications*;
- Q. AASHTO *Standard Specifications for Highway Bridges*;
- R. AASHTO *Manual for Bridge Evaluation*;
- S. AASHTO *Manual on Subsurface Investigations*; and
- T. Any other publications listed in Exhibit 8, or as instructed by MDOT.

Hydraulic Design:

- A. *Mississippi Standard Specifications for Road and Bridge Construction*;
- B. AASHTO *Drainage Manual*;
- C. AASHTO LRFD *Bridge Design Specifications*;
- D. Federal Highway Administration (FHWA) Hydraulic Engineering Circulars and other publications;
- E. 23 CFR Parts 625, 630, and 650;
- F. 44 CFR Part 59-78;
- G. Floodplain Management Regulations for the State of Mississippi;
- H. National Flood Insurance Program regulations (NFIP);
- I. Federal Emergency Management Agency (FEMA) regulations;
- J. Local, state, or federal regulations as appropriate; and
- K. Any other publications listed in Exhibit 8, or as instructed by MDOT.

Traffic Design:

- A. MDOT *Access Management Manual*;
- B. MDOT *ITS Design Manual*;
- C. MDOT Traffic Engineering's *Typical Signing Details*;
- D. *Mississippi Standard Specifications for Road and Bridge Construction*;
- E. *Manual on Uniform Traffic Control Devices (MUTCD)*;
- F. AASHTO'S *Highway Safety Manual (HSM)*; and
- G. Any other publications listed in Exhibit 8, or as instructed by MDOT.

The CONSULTANT shall not begin work in any phase of this CONTRACT until a written NOTICE TO PROCEED (NTP) or Task Order has been issued.

For contract plans sheets of bridges and other structures:

All preliminary plan sheets of bridges and other structures shall be marked "PRELIMINARY, NOT FOR CONSTRUCTION" in the seal block location on each sheet. Once final plans are complete, the "PRELIMINARY, NOT FOR CONSTRUCTION" markings shall be removed, and the CONSULTANT's engineer that designed the structure or components detailed on the sheet shall be place his/her seal/stamp in the seal block locations on each sheet. The seal/stamp must be signed and dated by the CONSULTANT's engineer.

For other type contract plans sheets:

All preliminary plans shall be marked "PRELIMINARY, NOT FOR CONSTRUCTION" on each sheet. Once plans are complete, the "PRELIMINARY" markings shall be removed, and the Roadway Title sheet shall be signed and sealed/stamped by the CONSULTANT's engineer. If the scope of the CONSULTANT's work is limited to certain aspects of the plans, the scope shall be briefly noted near the seal/stamp (e.g., "ROADWAY AND LIGHTING ONLY" or "BRIDGE AND RETAINING WALL ONLY"). If multiple CONSULTANTS develop the plans, each firm shall sign and seal/stamp the title sheet.

As a minimum, the Scope of Work shall be divided into two phases as follows:

PHASE A - FIELD REVIEW PLANS

COMPLETED UNDER PREVIOUS CONTRACT AND OMITTED FROM THIS DOCUMENT

Part 1 – Pre-Design Conference

Part 2 -- Field Survey (Limited Survey Completed Under Previous Contract)

Part 3 -- Preliminary Right of Way Plans

Part 4 – Field Inspection Ready Plans

Part 5 – Preliminary Bridge Recommendations

Part 6 -- Centerline Soil Profile and Preliminary Geotechnical Design Report

PHASE B – FINAL PLANS

Part 1 -- Design Conference

Part 2 – On Site Field Inspection and Final Right of Way

Part 3 – Final Right of Way Maps and Deeds

Part 4 – Utility Relocation Coordination

Part 5 – Sixty Percent (60%) Structural Information Plans

Part 6– Constructability Review

Part 7 – Office Review Plans

Part 8 -- Final Contract Plans and Specifications

PHASE C – ADVERTISEMENT, BIDDING, CONTRACTING

Part 1 – Advertising

Part 2 – Pre-Bid Coordination

Part 3 – Bidding and Evaluation of Bids

PHASE B – FINAL PLANS

Part 1 - DESIGN CONFERENCE

The purpose of the Design Conference is to discuss any updated procedures or policies the CLIENT may have enacted that would impact the final design phase of the project. These items may constitute a change in scope. The design conference may also require a visit to the project site.

Part 2 – ON SITE FIELD INSPECTION AND FINAL RIGHT OF WAY

The CONSULTANT shall facilitate and on site field review with the MCBOS representative, MDOT, and FHWA (if required).

Subsequent to the Field Inspection, the CONSULTANT shall make all necessary changes that arise during the inspection. Upon completion of all changes requested from the Field Inspection, the CONSULTANT shall submit the Draft Final Right-of-Way plans and one (1) set of Draft Final Right-of-Way cross-sections for review by the CLIENT. Allow approximately three (3) weeks for review, after which time the CONSULTANT shall meet with the CLIENT for a Draft Final Right-of-Way review to discuss the necessary changes.

Upon completion of any and all changes, the CONSULTANT shall submit plan sheets of the project which show the Right-of-Way and all public and private utility locations and ownerships which will be affected by the construction. The CONSULTANT shall submit one (1) set of cross sections for the project. The CONSULTANT shall also provide the CLIENT with written update Right-of-Way and construction cost estimates. These estimates shall be based on historical cost data from similar recent MDOT projects.

The CONSULTANT shall include revised preliminary bridge drawings with the submittal of Final ROW plans. The CONSULTANT shall, if requested by the CLIENT, attend any meetings concerning the project. Any changes or revisions required as a result of the above reviews shall be considered as part of the covered work.

Part 3 - FINAL RIGHT-OF-WAY MAPS AND DEEDS

Preparation of Final Right-of-Way plans include deed research, location of property lines, preparation of acquisition (appraisal) maps and preparation of plats for conveyance and legal descriptions prepared in accordance with the Standards of Practice for Surveying in the State of Mississippi. Field staking of proposed Right-of-Way limits and easements is to be included. Not included are a title search, property acquisition and closing. However, if requested by the CLIENT, these services may be performed under separate task order on an hourly basis.

Right-of-Way Plats and legal descriptions shall be completed, checked, sealed and signed by the CONSULTANT's Professional Land Surveyor prior to submittal to the CLIENT. At least two (2) copies per individual landowner shall be submitted bearing an original Seal and signature of the PLS or PE/PLS. Ideally, an individual (letter or legal size) parcel plat per landowner should be produced, but under circumstances whereby standard engineering scaled drawings provide a clear and legible plat, several small adjoining parcels may be combined on the same plat. Legal descriptions shall be identified clearly with accompanying plats and provided to MDOT in a format acceptable for import to MDOT's current version of Microsoft Word.

The Right-of-Way Acquisition Map is a composite mosaic of the individual parcels which are to be acquired on the project. This map is used by the appraisers and negotiators to present the information to the landowners during the acquisition phase of the Right-of-Way process. The map includes a layout sheet which locates the

project on the highway, showing a Point of Beginning and an End of Project, or Work Sites in the case of bridges or intersection projects. The following sheets are generally at a scale of 1"= 100', 1"= 200', or 1"= 400' (depending on the amount of information presented and the size of the project). Each parcel to be acquired is identified by parcel number, owner name, and area of take. The remaining area is shown for the parent parcel of each take area. Also, each instrument needed to acquire the properties is identified on the maps. Instruments include Warranty Deeds (W-deeds), Quitclaim Deeds (Q-deeds), Temporary Easements (T-deeds), Permanent Easements (E-deeds) and Access Rights Deeds (G-Deeds). The maps are printed out on E-size sheets on reproducible film media when finalized to preserve the information.

The Right-of-Way Division of MDOT has Standard Operating Procedures and a Right-of-Way Manual. The CONSULTANT shall adhere to the Standard Operating Procedures and the requirements set forth in the Right-of-Way Manual in the preparation of Maps and Deeds. The Right-of-Way Division may review any or all parts of the Maps and Deeds in order to check compliance with the Standard Operating Procedures and the Right-of-Way Manual.

The CONSULTANT acknowledges that revisions to plans and to Maps and Deeds shall be given high priority treatment, especially after the release of a complete set of Maps and Deeds.

Right-of-Way Certification: CONSULTANT shall prepare and properly execute a Right-of Way Certification to the CLIENT including: certification for the acquisition of Right-of-Way utility status report, existing Right-of-Way encroachment certification, and hazardous material clearance certification.

Part 4 – UTILITY RELOCATION COORDINATION

The CONSULTANT shall, utilize MS811 in concert with information provided by the CLIENT, in order to identify to the extent possible, utility conflicts within the project limits. The CONSULTANT will coordinate with identified utility owners for the purposes of reviewing the relocation of utilities found to be in conflict with the project.

Part 5 – SIXTY PERCENT (60%) STRUCTURAL INFORMATION PLANS

Unless otherwise specified in the Work Assignment, when approximately sixty percent (60%) of the structural detailing has been completed, the CONSULTANT shall submit a PDF set of all bridge sheets to MDOT Bridge Division for review. The CONSULTANT shall allow approximately four (4) weeks for the review by MDOT Bridge Division.

Part 6 – CONSTRUCTABILITY REVIEW

The CONSULTANT will perform a constructability review of the design of all roadway features to ensure safe and efficient maintenance of traffic, sufficient drainage, and the safety of construction workers during construction.

The CONSULTANT shall perform constructability design and analysis of all bridge structures, which includes, but is not limited to:

- A. Consideration of deflection;
- B. Strength of steel and concrete and stability during girder erection, concrete deck pouring sequence, or other critical stages of construction; and
- C. Permissible locations of temporary falsework and girder splice connections.

The CONSULTANT shall design and detail bridges in a manner that allows fabrication and erection to be performed without undue difficulty or distress, and that ensures that locked-in construction force effects are within tolerable limits.

The CONSULTANT shall include one complete set of Erection Plans for each complex bridge structure based on the constructability design and analysis. The Erection Plans shall include:

- A. Temporary falsework locations and reactions; and
- B. A sequence of construction and deck placement schedule.

The CONSULTANT shall verify that the locations of temporary falsework and girder splices do not interfere with other structures or impact other phases of construction. The CONSULTANT shall consider climatic and hydraulic conditions that may affect construction. General access of required construction equipment during construction phases shall also be considered.

Where constraints are imposed on the method of construction by environmental considerations or for other reasons, attention shall be drawn to those constraints in the Erection Plans and Final Plans.

Part 7 - OFFICE REVIEW PLANS

Office review plans shall be considered 90% plan development and shall include all items in the final right of way plans and other information such as:

- A. ROADWAY PLANS: Title sheet; detailed index; general notes; typical sections; summary of quantities; estimated quantities; plan-profile sheets; special design sheets; construction sequencing sheets (when necessary), traffic signal sheets, traffic control plan; complete form grades for interchange ramps, loops, and channelized intersections (in accordance with current Design Manual, at 25 feet intervals); permanent directional signing sheets that include layouts, details (signs and overhead assemblies), and estimated quantities; detailed pavement marking sheets; Right-of-Way Coordinate Sheet(s), final cross-sections; and all notes and data used to develop the plans.

- B. BRIDGE PLANS: Layout sheet(s) including plan and elevation, centerline soil profile, substructure details, superstructure details, miscellaneous details, pile details, notes, quantities and all other necessary details. Layout sheet(s) shall show: (1) complete geometric controls (as approved by the CLIENT), (2) grades (as approved by the CLIENT), (3) clearances, (4) topographic features (original and final), (5) design data, (6) quantities, (7) special notes, (8) pile notes and bearing requirements, and (9) all other pertinent details. A centerline soil profile will generally be compiled from field boring data and listed on separate sheets for the convenience of those involved in construction.

Detail sheets for substructure and superstructure shall show all details necessary for their construction and shall include, but not be limited to: (1) all dimensions convenient to construction, (2) sufficient cross section details, (3) beam sizes, types and spacing, (4) elevations, (5) crown details, (6) reinforcing details, (7) pile bearing requirements, types and sizes, (8) prestressing data where required, (9) notes, and (10) proper cross referencing.

Piling details, miscellaneous details and suitable special provisions as are available, shall be furnished by the CLIENT. All other details and special provisions that may be required shall be prepared by the CONSULTANT.

Office Review plans shall be compiled and submitted to the CLIENT and MDOT (if required) for review and comment. The CONSULTANT will allow up to three (3) weeks for review. At the conclusion of the review period, the CONSULTANT shall facilitate a meeting with the CLIENT and members of MDOT to review comments. The CONSULTANT shall prepare minutes from the Office Review and make any changes required as a result of the Office Review.

Part 8 - FINAL CONTRACT PLANS AND SPECIFICATIONS

Upon completion of Office Review Plans and any subsequent plan changes, the CONSULTANT shall issue the final contract plans and specifications. The final plans shall include all items previously outlined in the Office Review Plans, and other information as applicable, including, but not limited to:

A. ROADWAY PLANS:

1. Title Sheet;
2. Detailed Index Sheet(s);
3. General Notes Sheet(s);
4. Typical Sections Sheet(s);
5. Summary of Quantities Sheet(s);
6. Estimated Quantities Sheet(s);
7. Plan-Profile Sheet(s);
8. Intersection Detail Sheet(s);
9. Traffic Control Plan;
10. Complete Form Grade Sheet(s) for interchange ramps, loops, and/or channelized intersections at 25-foot intervals and at critical locations as needed;
11. Permanent Directional Signing Sheet(s) that include layouts, details (signs and overhead assemblies);
12. Standard regulatory and warning signs;
13. Erosion Control Plan Sheets;
14. Detailed Pavement Marking Sheet(s) that are not covered by Standard Drawings;
15. Traffic Signal Plans that include details;
16. Right-of-Way and Easement Coordinate Sheet(s);
17. Roadway Design Standard Drawings;
18. Other Special Design Sheets as necessary for the construction of the project;
19. Final Cross Section Sheets;

B. BRIDGE PLANS:

1. Layout Sheet(s) including:
 - a. Plan and elevation;
 - b. Complete geometric controls (as approved by Bridge Division);
 - c. Grades (as approved by Bridge Division);
 - d. Clearances;
 - e. Topographic features (original and final);

- f. Design data;
 - g. Quantities;
 - h. Special notes;
 - i. Pile notes and bearing requirements;
 - j. Erosion Control Plan Sheets; and
 - k. All other pertinent details.
- 2. Generalized Soil Profile;
 - 3. Substructure Details;
 - 4. Superstructure Details;
 - 5. Miscellaneous Details;
 - 6. Pile Details; and
 - 7. Notes, quantities, and all other necessary details.

A generalized soil profile will generally be compiled from field boring data and listed on separate sheets for the convenience of those involved in construction.

Detail sheets for substructure and superstructure shall show all details necessary for their construction and shall include, but not be limited to:

- A. All dimensions convenient to construction;
- B. Sufficient cross section details;
- C. Beam sizes, types, and spacing;
- D. Elevations;
- E. Crown details;
- F. Reinforcing details;
- G. Pile bearing requirements, types and sizes;
- H. Prestressing data where required;
- I. Notes; and
- J. Proper cross-referencing.

Piling details, miscellaneous details, and suitable Special Provisions as are available shall be furnished by the Bridge Division Project Manager or his designee. All other details and Special Provisions that may be required shall be prepared by the CONSULTANT.

The CONSULTANT shall make all necessary design computations and prepare the Final Plans for bridge construction, quantity estimates, and required Special Provisions in accordance with the approved preliminary drawings and design data. The Final Plans shall be checked by the CONSULTANT prior to submittal to MDOT.

C. BRIDGE LOAD RATING:

The CONSULTANT shall perform load ratings of all bridges. The load ratings shall be performed in accordance with the Bridge Design and Rating manuals listed in I. GENERAL REQUIREMENTS.

- 1. Load Factor Rating:
The load capacity of each bridge shall be rated in terms of the AASHTO "HS" design vehicle at both the inventory and operating rating levels and the Mississippi Legal Load Trucks at the

operating rating level. The posting of bridges for maximum loads shall be based on the operating rating using the Mississippi Legal Load Trucks.

2. Load and Resistance Factor Rating:

The load capacity of each bridge shall be rated in terms of the AASHTO LRFD HL-93 design vehicle at both the inventory and operating levels and the Mississippi Legal Load Trucks at the legal load rating level. The posting of bridges for maximum loads shall be based on the legal load rating using typical Mississippi Legal Load Trucks.

A systematic procedure shall be followed in the load rating of bridges so that the information may be retained and utilized in the routing of permit loads. The CONSULTANT shall provide a Bridge Load Rating Report of all bridges, which will include a summary showing all load ratings in a tabulated form, calculations, supporting documentation, and electronic copies of computer program input files. The Bridge Load Rating Report shall be signed, sealed, and dated by the CONSULTANT'S engineer. A PDF set of the Load Rating Report shall be submitted to Bridge Division at the time Final Plans are submitted. Input files from all load rating software shall be included in the submittal.

Final contract plans shall be submitted as original drawings. The CONSULTANT shall prepare all special provisions pertinent to the intent of the plans unless the CLIENT has on hand suitable special provisions that will be used.

PHASE C – ADVERTISING, BIDDING, CONTRACTING

Part 1 – ADVERTISING

The CONSULTANT shall prepare the legal advertisement on behalf of the CLIENT. The legal advertisement shall meet all local, state, and federal regulations and shall be approved by the CLIENT or the CLIENT'S attorney prior to publication.

Part 2 – PRE-BID COORDINATION

The CONSULTANT shall maintain current records of all plan holders, provide responses to contractor requests for information, issue any necessary addenda, and attend the bid opening.

Part 3 – BIDDING AND EVALUATION OF BIDS

The CONSULTANT will attend the bid opening and review bidding procedures for adherence to specification. Further, the CONSULTANT will review all bids submitted and accepted and prepare a recommendation of award for the CLIENT.

Exhibit B
MSEG
Hourly Rate Schedule

MSEG, INC.
Hourly Rate Schedule

EMPLOYEE CATEGORY	RATES	
Sr. Principal	\$260.00	Per Hour
Principal	\$235.00	Per Hour
Sr. Discipline Manager	\$215.00	Per Hour
Discipline Manager	\$175.00	Per Hour
Sr. Project Manager	\$205.00	Per Hour
Project Manager	\$190.00	Per Hour
Sr. Project Engineer	\$180.00	Per Hour
Project Engineer	\$160.00	Per Hour
Engineer Intern	\$130.00	Per Hour
Graduate Engineer	\$125.00	Per Hour
Architect	\$160.00	Per Hour
Designer	\$140.00	Per Hour
GIS Specialist	\$135.00	Per Hour
Administrative I	\$70.00	Per Hour
Administrative II	\$85.00	Per Hour
Technician Intern	\$95.00	Per Hour
Technician	\$110.00	Per Hour
Senior Technician	\$130.00	Per Hour
Construction Rep I	\$120.00	Per Hour
Construction Rep II	\$140.00	Per Hour
Survey Supervisor/ PLS	\$150.00	Per Hour
Survey Crew*		
One Man Robotic Total Station/GPS Crew	\$140.00	Per Hour
Two Man	\$160.00	Per Hour
Three Man	\$200.00	Per Hour
Four Man	\$240.00	Per Hour
Cadd/GIS Equipment	\$20.00	Per Hour
Four Wheeler	\$30.00	Per Day
IRS Current Standard Mileage Rate	Actual	

MSEG, INC.
Hourly Rate Schedule, Continued

REIMBURSABLE EXPENSES		Actual Expense + 10%		
PHOTOCOPIES				
Copiers				
Black & White	Letter & Legal	\$	0.15	Per Copy
	11X17	\$	0.25	Per Copy
	12X18	\$	0.30	Per Copy
	Color	\$	1.10	Per Copy
Plotters**				
Black & White	11x17	\$	4.00	Per Copy
	12x18	\$	4.50	Per Copy
	18x24	\$	9.00	Per Copy
	24x36	\$	18.00	Per Copy
	Color	\$	15.60	Per Copy
	12x18	\$	18.00	Per Copy
	18x24	\$	36.00	Per Copy
	24x36	\$	72.00	Per Copy

**Survey crew rates include Total Stations with Data Collectors, Survey Vehicle, and Standard Survey Equipment.*

***Oversized or odd sized plots are billed at \$0.25/sq ft for black & white, and \$1.00.sq ft for color.*

Per Diem:

When travel time exceeds one and one-half (1.5) hours per day each way, it shall be classified as an out of town project and per diem will be charged at the rate of \$90.00 per day per person, excluding areas that have been recently impacted by a natural disaster. Per Diem rates for said disaster areas shall be charged at the rate of \$150 per day per person.

Travel Time:

Time required to travel to and from a project site will be billed at the normal hourly rates.

The stated rates are effective from January 1, 2020 through December 31, 2020.

MSEG reserves the right to adjust the hourly rates after December 31, 2020.

Exhibit C
MSEG
Compensation Schedule

	Proposed Budget
Design Phase Services	\$779,572.24 (hourly, not to exceed)
Additional Services	hourly as requested
TOTAL	\$779,572.24

Summary



Reunion Parkway Phase 2
Madison County
MDOT Project Number: 105278
MSEG Project Number: 0019168.000
14-Jan-2020

	MSEG Prime Consultant Man-Hours	Sub-Consultant Man-Hours	Total Man-Hours	MSEG Total Labor Cost	MSEG Direct Cost	MSEG Prime Consultant Sub-Total	Sub-Consultant Sub-Total	Total Cost
Phase B:								
Project Management	388		388	\$77,680.00		\$77,680.00		\$77,680.00
Design Conference	20		20	\$3,380.00		\$3,380.00		\$3,380.00
Permitting		16	16				\$15,312.00	\$15,312.00
Geotechnical		277	277				\$49,115.64	\$49,115.64
Field Review	200		200	\$23,300.00	\$383.00	\$23,683.00		\$23,683.00
Final Row / Maps and Deeds	322		322	\$33,940.00		\$33,940.00		\$33,940.00
Bridge		2,016	2,016				\$319,701.00	\$319,701.00
Office Review Roadway	2,014		2,014	\$215,625.00	\$341.00	\$215,966.00		\$215,966.00
PSE, Advertising, Contracting	274		274	\$40,500.00	\$294.60	\$40,794.60		\$40,794.60
Phase B Totals	3,218	2,309	5,527	\$394,425.00	\$1,018.60	\$395,443.60	\$384,128.64	\$779,572.24

Grand Total	\$779,572.24
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Phase B: Design Conference

Reunion Parkway Phase 2
 Madison County
 MDOT Project Number: 105278
 MSEG Project Number: 0019168.000
 14-Jan-2020



No. of Sheets	Task	Personnel Titles Assigned to Project							Man-Hour Totals
		Principal	Project Manager	Discipline Manager	Project Engineer	Engineer Intern	Designer	Construction Rep	
		Man-Hours							
	Pre-Design Meeting								
	Prepare For & Attend Meeting	2	2	2	2				8
	Prepare Pre-Design Meeting Minutes		2					2	4
	Initial Site Visit		2	2	2	2			8
									20
	Total Hours	2	6	4	4	2		2	20
	Hourly Rate	\$235.00	\$190.00	\$175.00	\$160.00	\$130.00	\$140.00	\$120.00	\$85.00
	Salary Cost	\$470.00	\$1,140.00	\$700.00	\$640.00	\$260.00	\$0.00	\$0.00	\$170.00
	Total Labor Cost								\$3,380.00
	Prime Other Direct Costs								
	Reproducibles							0	\$0.00
	Mileage							0	\$0.00
	Prime Direct Costs Total								\$0.00
	Phase B, Part _ Grand Total								\$3,380.00

Phase B: Permitting

Reunion Parkway Phase 2
 Madison County
 MDOT Project Number: 105278
 MSEG Project Number: 0019168.000
 14-Jan-2020



No. of Sheets	Task	Personnel Titles Assigned to Project								Man-Hour Totals
		Principal	Project Manager	Discipline Manager	Project Engineer	Engineer Intern	Designer	Construction Rep	Administrative	
Headwaters		Man-Hours								
	Permitting									
	Wetlands and Other Waters Assessment		4	4						8
	USACE Permitting		4	4						8
	Total Hours		8	8						16
	Hourly Rate	\$235.00	\$190.00	\$175.00	\$160.00	\$130.00	\$140.00	\$120.00	\$85.00	
	Salary Cost	\$0.00	\$1,520.00	\$1,400.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$2,920.00
	Total Labor Cost									\$2,920.00
	Sub Other Direct Costs									
	Prints							0	\$0.00	\$0.00
	Mileage							0	\$0.00	\$0.00
	Sub Direct Costs Total									\$0.00
	Headwaters									
	Wetlands and OW Assessment	\$	4,500.00							
	USACE Permitting	\$	6,500.00							
										\$11,000.00
	Sub Direct Costs Total									\$0.00
	MSEG Plus 10%									\$1,392.00
	Phase B, Part_ Grand Total									\$15,312.00

Phase B: Geotechnical Investigation

Reunion Parkway Phase 2
 Madison County
 MDOT Project Number: 105278
 MSEG Project Number: 0019168.000
 14-Jan-2020



No. of Sheets	Task	Personnel Titles Assigned to Project							Man-Hour Totals
		Principal Engineer	Project Engineer	Sr. Eng	Tech/Draft	Clerical			
	Burns Cooley Dennis	Man-Hours							
	Finalize Bridge Profile Sheet: Bridge Details - Drawing	5	16	8	16	4			49
	Finalize Pile Capacity Curves	1	4	8					13
	Pavement Recommendations (Ramps, Shldr, Widening)	4		16	4	2			26
	Drilled Shaft Design	3	20	8					31
	Shaft Load Test Design	4	30	12	4				50
	Retaining Wall Design, Calculations, Sketches and Drawings Review	8	72	20	8				108
	Total Hours	25	142	72	32	6			277

Hourly Rate	\$85.00	\$65.00	\$45.00	\$25.00	\$23.00	\$0.00	\$0.00	\$0.00
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Salary Cost	\$2,125.00	\$9,230.00	\$3,240.00	\$800.00	\$138.00	\$0.00	\$0.00	\$0.00	\$15,533.00
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156.37% Overhead									\$24,288.95
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0.00% FCCM									\$0.00
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Total Labor Cost									\$39,821.95
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Sub Other Direct Costs									
Prints							0	\$0.00	\$50.00
Mileage							0	\$0.00	\$0.00
Meals							0	\$0.00	\$0.00
Lodging							0	\$0.00	\$0.00

Sub Direct Costs Total									\$50.00
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12.00% Sub Fixed Fee									\$4,778.63
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MSEG Plus 10%									\$4,465.06
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Phase B, Part _ Grand Total									\$49,115.64
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Phase B: On Site Field Review

Reunion Parkway Phase 2
 Madison County
 MDOT Project Number: 105278
 MSEG Project Number: 0019168.000
 1/14/2020



No. of Sheets	Task	Personnel Titles Assigned to Project							Man-Hour Totals	
		Principal	Project Manager	Discipline Manager	Project Engineer	Engineer Intern	Designer	Construction Rep		CADD
		Man-Hours								
	Field Inspection									
	Attend Field Inspection		8	8	8	8			32	
	Revise Plans Per Field Inspection			8	24	24	24		60	
	Provide Field Review Meeting Minutes		4	4					8	
	QA/QC	4	4	4	8				20	
									200	
	Total Hours	4	16	24	40	32	24	60	200	
	Hourly Rate	\$235.00	\$190.00	\$175.00	\$160.00	\$130.00	\$140.00	\$120.00	\$20.00	
	Salary Cost	\$940.00	\$3,040.00	\$4,200.00	\$6,400.00	\$4,160.00	\$3,360.00	\$0.00	\$1,200.00	\$23,300.00
	Total Labor Cost									\$23,300.00
	Prime Other Direct Costs									
	Prints						1200	\$0.15		\$180.00
	Mileage						350	\$0.58		\$203.00
	Prime Direct Costs Total									\$383.00
	Phase B, Part _ Grand Total									\$23,683.00

Phase B: Final ROW/Maps and Deeds

Reunion Parkway Phase 2
 Madison County
 MDOT Project Number: 105278
 MSEG Project Number: 0019168.000
 14-Jan-2020



No. of Sheets	Task	Personnel Titles Assigned to Project								Man-Hour Totals	
		Principal	Project Manager	Discipline Manager	Project Engineer	Engineer Intern	Designer	Construction Rep	Administrative		CADD
		Man-Hours									
	Draft Final ROW Deliverables										
	Submit Draft Final ROW Plans (1 multi-page PDF)					4				4	8
	Attend Draft Final ROW Meeting (if applicable)										
	Address Draft Final ROW Comments					4				4	8
	Generate ROW & Easement Coordinate Sheets					4				4	8
	Survey/Maps/Deeds Deliverables										
	Deed Research - Gather & Compile ROW and Property Owner Information from Chancery Clerks Office, MDOT, GLO Maps, etc., And Input Into Cadd Format			8			18		1	1	28
	Perform Field Survey to Locate Evidence of Existing ROW's, Property and Sectional lines.			5			6	30			41
	Perform Analysis of Field Survey & Determine location of Existing Property and ROW lines.			12			10			4	26
	Prepare Overall Map Delineating Existing Properties and Proposed ROW.			8			34			30	72
	Prepare Individual Survey Plats and Legal Descriptions For ROW Acquisition.			10			34		2	48	94
	Perform QA/QC - Maps & Deeds			2			3				5
	Stake Proposed ROW			2			2	24			28
	Final ROW Deliverables			1			2		1		4
	Total Hours			48		12	109	54	4	95	322
	Hourly Rate	\$235.00	\$190.00	\$175.00	\$160.00	\$130.00	\$140.00	\$120.00	\$85.00	\$20.00	
	Salary Cost	\$0.00	\$0.00	\$8,400.00	\$0.00	\$1,560.00	\$15,260.00	\$6,480.00	\$340.00	\$1,900.00	\$33,940.00
	Total Labor Cost										\$33,940.00
	Prime Other Direct Costs										
	Prints							0	\$0.00	\$0.00	\$0.00
	Mileage							0	\$0.00	\$0.00	\$0.00
	Prime Direct Costs Total										\$0.00
	Phase B, Part _ Grand Total										\$33,940.00

Phase B: BRIDGE PLANS

Reunion Parkway Phase 2
Madison County
MDOT Project Number: 105278
MSEG Project Number: 0019168.000
14-Jan-2020



No. of Sheets	Task	Personnel Titles Assigned to Project				Man-Hour Totals
		Project Manager	Senior Engineer	Engineer	Senior Designer	
Pickering Firm, Inc.		Man-Hours				
	Field Inspection					
	Attend Field Inspection		4	4	4	12
	Revise Plans Per Field Inspection		8	16	16	40
	QA/QC		4			4
	Project Management	8				8
	Office Review Plans					
	Superstructure Design					
	Girder Design		80			80
	Deck Design		80			80
	Bearing Design		24			24
	Modular Joint Sizing And Design		24			24
	Substructure Design					
	End Bents		80			80
	Int. Bents		80			80
	Plans					
	Summary Of Quantities		4	4	4	12
	Detailed Index		8	16	16	40
	General Notes		8	16	16	40
	Elevation		24	40	40	104
	Foundation Plan		24	40	40	104
	Generalized Soil Profile		8	8	8	24
	End Bents		24	32	40	96
	End Bent Details		8	8	8	24
	Int. Bent		40	40	40	120
	Int. Bent Details		32	24	24	80
	Span Details		40	40	40	120
	Typical Sections		24	40	40	104
	Misc. Span Details		8	8	8	24
	Railing Details		8	8	8	24
	Prestressed Beam Details		40	32	24	96
	Erosion Control Details		8	8	8	24
	Retaining Walls		40	80	80	200
	Quantity Calculations		40			40
	Deliverables					

Phase B: BRIDGE PLANS

Reunion Parkway Phase 2
Madison County
MDOT Project Number: 105278
MSEG Project Number: 0019168.000
14-Jan-2020



No. of Sheets	Task	Personnel Titles Assigned to Project				Man-Hour Totals
		Project Manager	Senior Engineer	Engineer	Senior Designer	
Pickering Firm, Inc.		Man-Hours				
	Submit Office Review Plans (4 Sets)		4			4
	Attend Office Review		8	8	8	24
	Revise Plans Per Office Review		40	40	40	120
	QA/QC		80			80
	Project Management	80				80
						2016
		88	904	512	512	2016

\$180.00
\$180.00
\$145.00
\$130.00

Salary Cost \$15,840.00 \$162,720.00 \$74,240.00 \$66,560.00 \$319,360.00

Total Labor Cost \$319,360.00

Sub Other Direct Costs

Reproducibles 1500 \$0.15 \$225.00

Mileage 200 \$0.58 \$116.00

Sube Direct Costs Total \$341.00

Phase B, Part _ Grand Total \$319,701.00

Phase B: Office Review Plans

Reunion Parkway Phase 2
Madison County
MDOT Project Number: 105278
MSEG Project Number: 0019168.000
14-Jan-2020



No. of Sheets	Task	Personnel Titles Assigned to Project							Man-Hour Totals	
		Principal	Project Manager	Discipline Manager	Project Engineer	Engineer Intern	Designer	Construction Rep		CADD
		Man-Hours								
	Title Sheet			2			4		2	8
	Detailed Index						8		8	16
	General Notes			4	8	8			12	32
	Typical Sections									
	Add Paving Details & Notes			4	4	12			12	32
	Summary of Quantity Sheets									
	Select Appropriate Pay Items			4	4	12				20
	Add Footnotes			8	8	12			8	36
	Estimated Quantity Sheets									
	Earthwork (phased if necessary)			1			4		2	7
	Drainage Structures			1		12			6	19
	Permanent Erosion Control			1			4		2	7
	Traffic Control			1		4			2	7
	Pavement Marking (permanent and temporary)			1			4		2	7
	Removal Items			1		4			2	7
	Side Drains			1		2			1	4
	Guardrail			1			2		1	4
	Junction Boxes			1		4			2	7
	Box Culverts									
	Bridge End Pavement			1		4			1	6
	Permanent Signing			1			8		4	13
	Hydraulic Design Data			1	8				2	11
	Incidental Construction Items			4	8	12	12		20	56
	Plan Profile Sheets									
	Sheet Clean-up and Organization			20	40	80	80		160	380
	Design & Place Permanent Erosion Control Items			4	24		40		60	128
	Place Earthwork Information (phased if necessary)			4	8		16		16	44
	Traffic Control Detail Sheets									
	Develop Phasing Narrative (if requested by MDOT)			12	8				8	28
	Construction Signing Detail					8			8	16
	TCP Sheets			2	8		24		24	58
	TCP Typical Sections			4	8		12		12	36
	Address Corrections From MDOT TCP Check				10		16		26	52
	Special Design Sheets									
	Intersection Detail Sheets			2	8	16				26
	Pavement Marking Detail Sheets						16		24	40
	Form Grade Sheets			1	12		8		20	41
	"Standard" Special Design Sheets (if design commenced prior to August 2017)									
	Miscellaneous Detail Sheets			10	20	24			44	98
	Control Points Sheet					4			2	6
	Box Culvert Sheets									
	Standard Drawings									
	Determine Necessary Standards & Generate PDF (roadway & box culvert, 2 multi-page pdf files)			2	2	4				8
	Cross-Sections									
	Add Earthwork Quantities (phased if necessary)			2	4		8		10	24
	Phase Construction Details			6	12	20			20	58
	Deliverables									
	2 Multi-Page PDF Files For Plans & X-Sections					4			4	8
	Completed Phase B Office Review Checklist						8	8		16
	Quantity Calculations (1 multi-page pdf)			2	8	8	8			26
	CADD Files and KMZ				4	4	4			12

Phase B: Office Review Plans

Reunion Parkway Phase 2
 Madison County
 MDOT Project Number: 105278
 MSEG Project Number: 0019168.000
 14-Jan-2020



No. of Sheets	Task	Personnel Titles Assigned to Project							Man-Hour Totals	
		Principal	Project Manager	Discipline Manager	Project Engineer	Engineer Intern	Designer	Construction Rep		CADD
		Man-Hours								
	Office Review									
	Attend Office Review		8	8	8					24
	Provide Office Review Meeting Minutes		8		4					12
	Revise Plans Per Office Review (and MDOT QC, if applicable)			20	40	40	40		100	240
	Quantity Calculations			24	40	40	40			144
	QA/QC			20	40	40		40		140
	Utility Relocation Coordination			10				40		50
										2014
	Total Hours		16	191	348	378	366	88	627	2014
	Hourly Rate	\$235.00	\$190.00	\$175.00	\$160.00	\$130.00	\$140.00	\$120.00	\$20.00	
	Salary Cost	\$0.00	\$3,040.00	\$33,425.00	\$55,680.00	\$49,140.00	\$51,240.00	\$10,560.00	\$12,540.00	\$215,625.00
	Total Labor Cost									\$215,625.00
	Prime Other Direct Costs									
	Reproducibles							1500	\$0.15	\$225.00
	Mileage							200	\$0.58	\$116.00
	Prime Direct Costs Total									\$341.00
	Phase B, Part _ Grand Total									\$215,966.00

Phase B: PS&E, Advertisement, Contracting

Reunion Parkway Phase 2
 Madison County
 MDOT Project Number: 105278
 MSEG Project Number: 0019168.000
 14-Jan-2020



No. of Sheets	Task	Personnel Titles Assigned to Project							Man-Hour Totals	
		Principal	Project Manager	Discipline Manager	Project Engineer	Engineer Intern	Designer	Construction Rep		Administrative
		Man-Hours								
	PS&E Assembly									
	Right of Way Certification			4	1	4			9	
	Utility Certification			4	1	4			9	
	Encroachment Certification			2	1	2			5	
	Hazardous Waste Certification			2		2			4	
	Asbestos Abatement Certification			1		1			2	
	Compose Letters			8	1	8			17	
	Complile Forms			4	1	4			9	
	Print Plans						12		12	
	Assemble Specifications			12		12		10	34	
	Material Checklist			8	8				16	
	MDOT Coordination	2	16	16	16				50	
	Advertisement									
	Print Plans and Specifications					4		8	12	
	Prepare Advertisement			4					4	
	Bidder Coordination	2		22				20	44	
	Receive & Evaluate Bids	1	4	4				4	13	
	Assemble Bids and Submit			4				8	12	
	Contracting									
	Checklist Processes for Award to Low Bidder		2	4				12	18	
	Issue Notice of Award		1					1	2	
	Prepare and Issue Notice of Execution Letter		1					1	2	
	Total Hours	5	24	99	29	41	12	10	54	274

Hourly Rate	\$235.00	\$190.00	\$175.00	\$160.00	\$130.00	\$140.00	\$120.00	\$85.00	
Salary Cost	\$1,175.00	\$4,560.00	\$17,325.00	\$4,640.00	\$5,330.00	\$1,680.00	\$1,200.00	\$4,590.00	\$40,500.00
Total Labor Cost									\$40,500.00
Other Direct Costs									
Reproducibles							1500	\$0.15	\$225.00
Mileage							120	\$0.58	\$69.60
Direct Costs Total									\$294.60
Phase B, Part _ Grand Total									\$40,794.60

Exhibit D
Performance Schedule
