TOOELE COUNTY CORPORATION
CONTRACT # 22-03-17

TOOELE COUNTY

Tooele County Council
Agenda Item Summary

Department Making Request:	**Meeting Date:**
Airport	3/1/2022 Ratification 3.15

Mark Options That Apply:

- ☑ **Grant** *1 time*
- ☐ **Contract** *1 yr. or less* — *Exp date:* _____
- ☐ **Purchase**
- ☐ **Grant** *With County Match*
- ☐ **Contract** *More than 1 yr.* — *Exp date:* _____

Budget Impact:

- ☑ **In Budget**
- ☐ **Over Budget**

Requested Amount: $ 3,888

Item Title: Wendover Airport Improvement Program 040 Amendment No. 3

Please answer the who? what? when? why?

Adds engineering fees for Jviation for FAA project No. 040 which is to procure a vacuum sweeper truck for the runways and taxiways. The engineering fees have been approved by the FAA. The FAA will pay 90% of the cost of these fees. The total cost of the engineering fees is estimated to be $38,880.00. The airport will pay approximately $3,888.00 of the total.

List who needs copies when approved:

AMENDMENT NO. THREE (3) TO CONTRACT
DATED JANUARY 22, 2021
BETWEEN
JVIATION, A WOOLPERT COMPANY
AND
TOOELE COUNTY – WENDOVER AIRPORT
WENDOVER, UT

The Sponsor and the Engineer agree to amend their contract for improvements to the Tooele County – Wendover Airport, Wendover, Utah to include fees for engineering services. The improvement Item No. 4 is included in the Scope of Work of the original contract. The item covered by this amendment is described as follows:

- Procurement Vacuum Sweeper Truck

The Sponsor agrees to pay the Engineer for the services listed under Section 2 of the original contract in the following manner, and within the time constraints outlined in the AIP development schedule.

PART A - BASIC SERVICES

DESIGN

Preliminary Design ..... Lump sum of $7,900.00
Design ..... Lump sum of $14,730.00

BIDDING

Bidding ..... Lump sum of $7,295.00

TOTAL BASIC SERVICES ..... Lump sum of $29,925.00

Method of payment shall be as follows:

The Sponsor agrees to make monthly payments based upon the work performed by the Engineer, up to 90 percent of the total contract. The final 10 percent of the fee shall be due and payable when the project final documents have been completed and have been submitted to the Sponsor.

PART B - SPECIAL SERVICES

The maximum estimated SPECIAL SERVICES engineering is as follows:

Manufacturing/Procurement ..... Lump sum of $2,250.00
Post Manufacturing Coordination ..... Lump sum of $6,705.00

TOTAL SPECIAL SERVICES ..... Lump sum of $8,955.00

TOTAL $38,880.00

All other terms and conditions of the original contract shall remain in effect.

IN WITNESS WHEREOF, the parties hereto have affixed their signatures this 23 day of February 2022.

SPONSOR:
Tooele County – Wendover Airport

DocuSigned by:
By: Andy Welch
F0AF42B9927B426...

Name: Andy Welch

Title: County Manager

ENGINEER:
Jviation, A Woolpert Company

DocuSigned by:
By: Jason Virzi
88C88044F188434...

Name: Jason Virzi, PE

Title: Vice President

APPROVED AS TO FORM:

Colin Winchester 03/10/2022
Colin R. Winchester
Deputy Tooele County Attorney

SCOPE OF WORK
FOR
WENDOVER AIRPORT
Wendover, Utah
AIP Project No. 3-49-0046-040-2022
Procure Vacuum Sweeper

This is an Appendix attached to, made a part of and incorporated by reference with the Consulting Contract dated January 22, 2021 between Tooele County and Jviation, Inc. for providing professional services. For the remainder of this scope the Wendover Airport is indicated as "Sponsor" and Jviation, Inc. is indicated as "Engineer." The approximate manufacturing cost of this project is $270,000.00

This project shall consist of preparing Contract Documents, Technical Specifications, and Engineer's Design Report, along with Bidding and Procurement Administration Services, for the Procure Vacuum Sweeper Project. This scope of work is for the consulting services provided by the Engineer for the Sponsor.

DESCRIPTION

Acquire One Vacuum Sweeper. This project consists of the procurement, through the competitive bidding process, of one Vacuum Sweeper. The Sponsor currently has one vacuum sweeper that has reached the end of its service life, a 1994 Tymco Regenative Motorized Sweeper. The existing sweeper has numerous mechanical issues and is in need of replacement. The proposed sweeper will replace the existing sweeper and will aid in in the collection of Foreign Object Debris (FOD) on active pavements.

The Engineering fees for this project will be broken into two parts. **Part A-Basic Services** includes; 1) Preliminary Design Phase, 2) Design Phase, 3) Bidding Phase, and Reimbursable Costs During Design and Bidding and **Part B-Special Services,** which includes; 4) Manufacturing/Procurement Phase, 5) Post Manufacturing Coordination Phase, and Reimbursable Costs During Manufacturing. Parts A and B and the five phases are described in more detail below.

PART A - BASIC SERVICES consists of the Preliminary Design Phase, Design Phase and Bidding Phase, all invoiced on a lump sum basis.

1.0 Preliminary Design Phase

1.1 Coordinate and Attend Meetings with the Sponsor and FAA. Meetings with the Sponsor and the FAA will take place to determine critical project dates, establish the proposed design schedule and AIP development schedule, and determine the feasibility of the proposed project. Various meetings during the design phase will also be conducted to review the progress of the design and discuss manufacturing details, proposed time frame of the manufacturing, and special requirements for the project. It is anticipated that there will be a minimum of two meetings with the Sponsor and/or the FAA throughout the course of the design.

1.2 Prepare Project Scope of Work and Contract. This task includes establishing the scope of work through meetings outlined above. Fees will be negotiated with the Sponsor. This task also includes drafting the contract for the work to be completed by the Engineer for the Sponsor once negotiations are complete.

1.3 Prepare Preliminary Cost Estimating. This task includes creating a preliminary manufacturing rough order of magnitude (ROM) cost estimate, a preliminary manufacturing days estimate, a preliminary overall project schedule, and a preliminary overall project budget. The preliminary manufacturing ROM cost estimate will be based upon the most current information available at the time of preparation. Work to refine these estimates is included under Task 2.4.

1.4 Provide Project Coordination. The Engineer shall provide project management and coordination services to ensure the completion of the design. These duties include:

- Time the Engineer spends planning, organizing, securing and scheduling resources, and providing instruction to staff to meet project objectives as defined in the approved scope of work.
- The Engineer will analyze the budget semi-monthly to ensure budget and staffing needs are on track to meet design schedules within budget.
- Additional items to be accomplished include compiling and sending additional information requested from the office to related parties, maintaining project files as necessary and other items necessary in day to day project coordination.
- The Engineer will prepare and submit monthly invoicing.

The Engineer shall conduct the following tasks:

- Provide the Sponsor with a monthly Project Status Report (PSR), in writing, reporting on Engineer's progress and any problems that may arise while performing the work. The PSR must include an update of the project schedule, as described in this section, when schedule changes are expected.
- Submit for acceptance and maintain, a design schedule detailing the Engineer's scheduled performance of the work.
- Create and maintain a Quality Control Checklist (QCC) for the project. The QCC shall include personnel, project milestone checking and peer review procedures at each phase of the project.

1.5 Prepare Federal Grant Application. This task consists of preparing the federal grant application. The application will be submitted during the initial portion of the project. Preparation of the application will include the following:

- Prepare Federal 424 form.
- Prepare Federal Form 5100 – II thru IV.
- Prepare project funding summary.
- Prepare program narrative, discussing the purpose and need of the work and the method of accomplishment.
- Prepare preliminary cost estimate.
- Prepare the Sponsor's certifications.
- Attach the current grant assurances.
- Include DOT Title VI assurances.
- Include certification for contract, grants and cooperative agreements.
- Include Title VI pre-award checklist.
- Include current FAA advisory circulars required for use in AIP approved projects.

The Engineer will submit the grant application to the Sponsor for approval and signatures. After obtaining the necessary signatures, the Sponsor or Engineer shall forward a copy of the signed application to the FAA for further processing.

1.6 Prepare Environmental Documentation. The FAA has determined that a simple written Internal Memo applies, according to FAA orders 1050.1F and 5050.4B. The Engineer shall prepare a simple written Internal Memo for the equipment acquisition. An overall environmental exhibit will be created as part of this scope of work, approved by the FAA, and referenced throughout the project.

1.7 Assist with Preliminary Equipment Justification Report. The Engineer will assist the Sponsor in compiling a Preliminary Equipment Justification Report for submittal to the FAA. This report will include calculations for the type of equipment based upon FAA Guidance (AIP Handbook Table L2 – Item 1) and other relevant documents. This report will be included in the Final Engineer's Design Report.

1.8 Prepare Quarterly Performance Reports – Design. Federal Regulation 49 CFR Part 18 establishes uniform administrative requirements for grants to State and Local Governments. Sub-part 18.40 addresses monitoring and reporting requirements for the Sponsor. The Engineer will assist the Sponsor in managing grant activities to ensure compliance with applicable Federal requirements. The Engineer will submit a quarterly performance report while the grant is active. It is estimated there will be two quarterly performance reports completed during the design phase of this project.

TASK 1 DELIVERABLES:	TO FAA	TO SPONSOR
1.1 Meeting Agendas, AIP Development Schedule and Meeting Minutes from Pre-Design Meeting	✓	✓
1.2 Scope of Work and Draft Contract for the Sponsor	✓	✓
1.3 Preliminary Cost Estimate	✓	✓
1.4 Design Schedule, Project Status Report and Monthly Invoicing	✓	✓
1.5 Federal Grant Application	✓	✓
1.6 Environmental Documentation	✓	✓
1.8 Quarterly Performance Reports	✓	✓

TASK 1 MEETINGS/SITE VISITS	LOCATION/ATTENDEES/DURATION
1.1 Pre-Design Kick Off Meeting	• Wendover, UT One (1) Project Engineer and one (1) Project Manager Assume One (1) hour via teleconference (1 Meeting)
1.2 Prepare Project Scope of Work and Contract	• Wendover, UT One (1) Resident Engineer and one (1) Project Manager Assume One (1) hour via teleconference (1 Meeting)

2.0 Design Phase

2.1 Prepare Preliminary Contract Documents. This task includes preparing the Preliminary Contract Documents, including Contract Proposal, Bid Bond, Contractor Information Sheet, Subcontractor/Material Supplier List, Certification of Non-Segregated Facilities, Equal Employment Opportunity Report Statement, Buy America Certification, Buy America Waiver Request, Buy America Conformance Listing, Certification Statement Regarding Undocumented Individuals, Bid Proposal, Contract, Payment Bond, Performance Bond, Notice of Award, Notice to Proceed, Notice of Contractor's Settlement, and General Provisions. Preparation will include establishing the location for the bid opening, dates for advertisement and description of the work schedule. Also included in the Preliminary Contract Documents, and covered under separate tasks below, are the Technical Specifications and Special Provisions. Preliminary Contract Documents will be prepared as early as possible during the design phase and submitted to the Sponsor for review.

2.2 Prepare Preliminary Technical Specifications. This task includes assembling the technical specifications necessary for the intended work. Standard FAA specifications will be utilized where possible; with the guidance from the FAA to be followed. Additional specifications will be prepared to address work items for materials that are not covered by the standard FAA specifications. This task also includes coordination with the Sponsor on the specification and preparing the specification.

2.3 Prepare Preliminary Special Provisions. This task includes preparing the preliminary Special Provisions to address, or expound on, conditions that require additional clarification. These include, but are not be limited to: Work Schedule, Insurance, Indemnification, Sales and Use Taxes, Permits and Compliance with Laws, Executed Contracts, Subletting or Assigning of Contracts, Liquidated Damages and Instruction Manuals.

2.4 Prepare Estimate of Probable Cost. The Engineer will prepare the manufacturing cost estimate. The estimate will be based on information obtained from previous projects, manufacturers, material suppliers and other available databases.

2.5 Prepare Engineer's Design Report and Modification of Standards. This task includes preparation of the Engineer's Design Report in accordance with current FAA Northwest Mountain Region Engineer's Design Report guidelines. The Engineer's Design Report will include a detailed summary of the project, descriptions of existing equipment, estimate of project costs and a schedule for the completion of the design, bidding and manufacturing. Modifications of the FAA standards, as necessary, for the project will be prepared for preliminary review. The Modifications of Standards (MOS) will be included in the Engineer's Design Report and submitted on the MOS website (See Task 2.6 below) to the FAA and Sponsor.

2.6 Prepare and Submit Modification of Standards on MOS Website. This task includes Modifications of Standards (MOS) website access coordination with the Sponsor and FAA. Modifications of the FAA standards, as necessary, for the project must be compiled and submitted to the MOS website for approval. Revisions will be completed as needed.

2.7 Prepare Engineer's Recommendation for Clarification to Standards. This task includes preparing and submitting to the FAA a recommendation for clarification to FAA standards. The Engineer's recommendation will contain a list of standards affected, the basis for each clarification as allowed by FAA Order 5300.1, a description of each proposed clarification, and the Engineer's assurance that the clarifications will provide a finished product that will meet FAA standards for acceptance.

2.8 Complete Review at 75% Complete. During various stages of completion of the design, the Engineer will submit a set of Contract Documents and Specifications to the Sponsor for their review. Meetings will be scheduled for periodic reviews, including a 75% review. The project will be reviewed with the FAA to obtain their concurrence with the design.

2.9 Provide In-House Quality Control. The Engineer has an established quality control program that will provide both experienced and thorough reviews of all project submittals and will also provide engineering guidance to the design team throughout design development from an experienced senior-level Professional Engineer.

Prior to each review set of Contract Documents, Specifications, and Engineer's Design Report being submitted to the Sponsor and FAA, a thorough in-house quality control review of the documents will be conducted. This process will include an independent review of the Contract Documents and Specifications being submitted, by a licensed Professional Engineer, other than the Engineer whom performed the design of the project. Comments will be offered by the Engineer that performed the review and revisions to the Contract Documents, Specifications, and Engineer's Design Report will be made accordingly.

In addition to the 75% review, the Engineer's in-house quality control program also provides engineering guidance to the design team throughout the project design in an attempt to steer the project in a manner that provides the best engineering judgment.

2.10 Prepare and Submit Contract Documents, Specifications, and Engineer's Design Report. A final set of Contract Documents, Specifications, and Engineer's Design Report will be prepared and submitted to the Sponsor, and the FAA. These documents will incorporate all revisions, modifications and corrections identified during the final review. Paper and electronic copies will be provided.

2.11 Prepare Requests for Reimbursement. This task includes preparing the FAA Standard Form 271 for Sponsor reimbursement of eligible expenses incurred on a monthly basis. The Engineer will submit the completed form along with appropriate supporting documentation to the Sponsor for review and approval. Upon approval, the Engineer or the Sponsor will submit the completed forms and supporting documentation to the FAA for reimbursement. It is estimated there will be three RFRs for expenses incurred during the design and bidding phases.

TASK 2 DELIVERABLES:	TO FAA	TO SPONSOR
2.1 Preliminary Contract Documents for Sponsor's Review	✓	✓
2.6 MOS Website and submittals	✓	✓
2.8 75% Contract Documents, Special Provisions, Specifications, Engineer's Design Report, Cost Estimate and Project Review Meeting Minutes.	✓	✓
2.10 Final Contract Documents, Special Provisions, Specifications, Cost Estimate, and Engineer's Design Report for Bidding	✓	✓
2.11 Requests for Reimbursement	✓	✓

TASK 2 MEETINGS/SITE VISITS	LOCATION/ATTENDEES/DURATION
2.8 Review at 75% Complete.	• Wendover, UT One (1) Project Engineer and one (1) Project Manager Assume One (1) hour via teleconference (1 Meeting)

3.0 Bidding Phase

3.1 Provide Bid Assistance. The Engineer will assist the Sponsor, as needed, with any required bidding documents such as: project advertisement in the Tooele Transcript Bulletin , and Dodge Data & Analytics and solicit for bids to potential manufacturers and plan rooms. The Engineer will coordinate the project advertisement(s) and request reimbursement from the Sponsor as a pass-through cost during invoicing.

3.2 Prepare Addenda. Any necessary addenda will be issued to clarify and modify the project, as required, and based on questions or comments that may arise from potential manufacturers during the bidding process. Any necessary addenda will be reviewed with the Sponsor and FAA prior to being issued. The addenda will meet all design and manufacturing standards, as required.

3.3 Consult with Prospective Bidders. During the bidding process, the Engineer shall be available to clarify bidding issues with manufacturers and suppliers and for consultation with the various entities associated with the project.

3.4 Attend Bid Opening. At the direction of the Sponsor, the Engineer shall attend the bid opening via teleconference for the project, which will be run by the Sponsor.

3.5 Review Bid Proposals. Upon the opening of submitted bid proposals by the Sponsor, the Engineer shall review all the bid proposals submitted. A cost analysis of the bid prices will be completed and tabulated; the manufacturer's qualifications to perform the work will be included, including review of suspension and debarment rules on the www.Sam.gov website, Buy American compliance analysis/review, and project funding review. Inclusion of bid guarantee and acknowledgement of addenda shall be completed.

3.6 Prepare Recommendation of Award. The Engineer shall prepare a Recommendation of Award for the Sponsor to accept or reject the bids received with a summary of the items listed in Task 3.6. If rejection is recommended, the Engineer will supply an explanation for their recommendation and possible alternative actions the Sponsor can pursue to complete the project.

TASK 3 DELIVERABLES:	TO FAA	TO SPONSOR
3.1 Required Bidding Documents	✓	✓
3.2 Addenda	✓	✓
3.5 Bid Tabulations	✓	✓
3.6 Recommendation of Award	✓	✓

TASK 3 MEETINGS/SITE VISITS	LOCATION/ATTENDEES/DURATION
3.4 Attend Bid Opening	• Wendover, UT One (1) Project Engineer and one (1) Project Manager Assume One (1) hour via teleconference (1 Meeting)

EX Reimbursable Costs During Design and Bidding

This section includes reimbursable items such as auto rental, mileage, lodging and per diem, and other miscellaneous costs incurred in order to complete **Part A – Basic Services**.

PART B - SPECIAL SERVICES will consist of the Manufacturing/Procurement Phase, and Post Manufacturing Coordination Phase, all invoiced on a Lump Sum Basis.

4.0 Manufacturing/Procurement Phase

4.1 Preparation of Contract for Equipment Manufacturer. The Engineer will prepare the contract for the equipment manufacturer and ensure all relevant details are included. The Engineer will coordinate with all required parties to complete the execution of the contract and send copies of the fully executed contract to all necessary stakeholders.

4.2 Provide Support During Manufacturing/Procurement of Equipment. The Engineer will provide support during the manufacturing and procurement of the equipment. Such support may include answering and clarifying any questions the manufacturer may have, coordinating with manufacturer on timeline of delivery or any delays, and coordinating with Sponsor and the FAA in the event any changes or modifications from the specifications are required.

TASK 4 DELIVERABLES:	TO FAA	TO SPONSOR
4.1 Required Bidding Documents	✓	✓

5.0 Post Manufacturing Coordination Phase

5.1 Conduct Final Inspection. The Engineer, along with the Sponsor and FAA (if available), will conduct the final inspection.

5.2 Prepare Final Acquisition Report. The Engineer will prepare the final acquisition report to meet the FAA closeout checklist requirements.

5.3 Summarize Project Costs. The Engineer will be required to obtain all administrative expenses, engineering fees and costs, testing costs, and manufacturing costs associated with project and assemble a total project summary. The summary will be compared with available funding.

TASK 5 DELIVERABLES:	TO FAA	TO SPONSOR
5.1 Punchlists	✓	✓
5.2 Final Construction Report	✓	✓
5.3 Project Cost Summary	✓	✓

TASK 5 MEETINGS/SITE VISITS	LOCATION/ATTENDEES/DURATION
5.1 Conduct Final Inspection	• Wendover, UT One (1) Project Manager Assume half day site visit (1 site visit) Assume travel to/from SLC, UT to Wendover, UT.

EX Reimbursable Costs During Manufacturing

This section includes reimbursable items such as auto rental, mileage, lodging and per diem, travel, and other miscellaneous costs incurred in order to complete Part B – Special Services.

Assumptions

The scope of services described in the foregoing is based on several assumptions of responsibilities by the Engineer and Sponsor.

1. It is anticipated there will be a minimum number of trips and site visits to the airport to facilitate the completion of the various phases listed in this scope. Each trip is anticipated to be a one-day trip and the number of trips for each phase are included at the end of each phase above.

2. All engineering work shall be performed using accepted engineering principles and practices and shall provide quality products that meet or exceed industry standards. Criteria will be in accordance with FAA Guidance and related circulars. Specifications will be in accordance with FAA Guidance and the Northwest Mountain Regions Regional Updates and related circulars. Project planning, design, and manufacturing will further conform to all applicable standards including all applicable current FAA Advisory Circulars and Orders required for use in AIP funded, and other national, state, or local regulations and standards as identified and relevant to a manufacturing project.

3. The Engineer will utilize the following assumptions when preparing the project manual for bidding and manufacturing of the project:

   - ✈ The project manual Contract Documents will be developed jointly by the Sponsor and the Engineer.
   - ✈ The Engineer is responsible for developing the contents of the document.
   - ✈ FAA General Provisions and required contract language will be used.

4. The Engineer will maintain records of design analyses and calculations consistent with typical industry standards, as required by FAA, for a period of three years after the project is closed by the FAA.

5. The Engineer may reasonably rely upon the accuracy of data furnished by the Sponsor, or any other project participant not under contractual responsibility to the Engineer pursuant to the project and upon which the Engineer will base the services provided hereunder.

6. It is assumed that a bid protest will not be made. If one is made, the Engineer is prepared to assist the Sponsor with investigating the protest(s) for validity and recommend a course of action based on the investigation(s). This work will be negotiated with the Sponsor at that time and payment will be on a time and material basis. This work may not be eligible for federal funding.

7. Because the Engineer has no control over the cost of manufacturing-related labor, materials, or equipment, the Engineer's opinions of probable costs will be made on the basis of experience and qualifications as a practitioner of its profession. The Engineer does not guarantee that proposals for manufacturing, manufacturing bids, or actual project manufacturing costs will not vary from Engineer's estimates of cost.

8. It is assumed that a project audit will not be performed. If a project audit occurs, the Engineer is prepared to assist the Sponsor in gathering and preparing the required materials for the

audit. This work will be negotiated with the Sponsor, should the need occur and payment will be on a time and material basis.

AIRPORT: Wendover Airport
AIP OR PROJECT NUMBER: 3-49-0046-040-2022
PROJECT NAME: Procure Vacuum Sweeper
DATE: November 6, 2021

JVIATION
A WOOLPERT COMPANY

FEE BREAKDOWN

Labor Category	Total Hours		Billing Rate		Total Cost
1.0 Preliminary Design Phase (Lump Sum)					
Principal	2 hrs.	x	$ 275.00 /hr	= $	550.00
Project Manager III	22 hrs.	x	$ 195.00 /hr	= $	4,290.00
Quality Control Manager	0 hrs.	x	$ 215.00 /hr	= $	-
Engineer III	4 hrs.	x	$ 155.00 /hr	= $	620.00
Planner III	2 hrs.	x	$ 160.00 /hr	= $	320.00
Associate Engineer II	8 hrs.	x	$ 115.00 /hr	= $	920.00
Project Coordinator II	10 hrs.	x	$ 120.00 /hr	= $	1,200.00
Support III	0 hrs.	x	$ 105.00 /hr	= $	-
SUBTOTAL	48 hrs.		**SUBTOTAL**	$	**7,900.00**
Reimbursables					
Auto Rental	0 Day	x	$ 85.00 /Day=	$	-
Mileage	0 Mi	x	$ 0.560 /Mi=	$	-
Lodging + Tax & Fees	0 Day	x	$ 145.00 /Day=	$	-
Per Diem	0 Day	x	$ 64.00 /Day=	$	-
Travel & Airline Costs	0 Trip	x	$ 500.00 /Trip=	$	-
			SUBTOTAL	$	-
			SUBTOTAL	$	**7,900.00**

LABOR HOUR BREAKDOWN

	TASK	LABOR CATEGORY								
		Principal	Project Manager III	Quality Control Manager	Engineer III	Planner III	Associate Engineer II	Project Coordinator II	Support III	Phase Item Costs
1.0	**Preliminary Design Phase (Lump Sum)**									
1.1	Coordinate and Attend Meetings with the Sponsor and FAA		2		2					$ 700.00
1.2	Prepare Project Scope of Work and Contract	2	2				4	2		$ 1,640.00
1.3	Prepare Preliminary Cost Estimating				2					$ 310.00
1.4	Provide Project Coordination		12							$ 2,340.00
1.5	Prepare Federal Grant Application		2					4		$ 870.00
1.6	Prepare Environmental Documentation					2				$ 320.00
1.7	Assist with Preliminary Equipment Justification Report		2				4			$ 850.00
1.8	Prepare Quarterly Performance Reports - Design		2					4		$ 870.00
	TOTALS	2	22	0	4	2	8	10	0	$ 7,900.00

Labor Category	Total Hours		Billing Rate		Total Cost
2.0 Design Phase (Lump Sum)					
Principal	0 hrs.	x	$ 275.00 /hr	= $	-
Project Manager III	14 hrs.	x	$ 195.00 /hr	= $	2,730.00
Quality Control Manager	4 hrs.	x	$ 215.00 /hr	= $	860.00
Engineer III	10 hrs.	x	$ 155.00 /hr	= $	1,550.00
Associate Engineer III	12 hrs.	x	$ 150.00 /hr	= $	1,800.00
Associate Engineer II	62 hrs.	x	$ 115.00 /hr	= $	7,130.00
Project Coordinator II	2 hrs.	x	$ 120.00 /hr	= $	240.00
Support III	4 hrs.	x	$ 105.00 /hr	= $	420.00
SUBTOTAL	108 hrs.		**SUBTOTAL**	$	**14,730.00**
Reimbursables					
Auto Rental	0 Day	x	$ 85.00 /Day=	$	-
Mileage	0 Mi	x	$ 0.560 /Mi=	$	-
Lodging + Tax & Fees	0 Day	x	$ 145.00 /Day=	$	-
Per Diem	0 Day	x	$ 64.00 /Day=	$	-
Travel & Airline Costs	0 Trip	x	$ 500.00 /Trip=	$	-
			SUBTOTAL	$	-
			SUBTOTAL	$	**14,730.00**

	TASK	LABOR CATEGORY								
		Principal	Project Manager III	Quality Control Manager	Engineer III	Associate Engineer III	Associate Engineer II	Project Coordinator II	Support III	Phase Item Costs
2.0	**Design Phase (Lump Sum)**									
2.1	Prepare Preliminary Contract Documents		2				16			$ 2,230.00
2.2	Prepare Preliminary Technical Specifications		2		8		24			$ 4,390.00
2.3	Prepare Preliminary Special Provisions						2			$ 230.00
2.4	Prepare Estimate of Probable Cost		1				4			$ 655.00
2.5	Prepare Engineer's Design Report and Modification of Standards					12				$ 1,800.00
2.6	Prepare and Submit Modification of Standards on MOS Website						4			$ 460.00
2.7	Prepare Engineer's Recommendation for Clarification to Standards		1				4			$ 655.00
2.8	Complete Review at 75% Complete		4							$ 780.00
2.9	Provide In House Quality Control			4						$ 860.00
2.10	Prepare and Submit Contract Documents, Specifications, and Engineer's Report		2		2		8			$ 1,620.00
2.11	Prepare Requests for Reimbursement		2					2	4	$ 1,050.00
	TOTALS	0	14	4	10	12	62	2	4	$ 14,730.00

Labor Category	Total Hours		Billing Rate		Total Cost
3.0 Bidding Phase (Lump Sum)					
Principal	0 hrs.	x	$ 275.00 /hr	= $	-
Project Manager III	18 hrs.	x	$ 195.00 /hr	= $	3,510.00
Quality Control Manager	0 hrs.	x	$ 215.00 /hr	= $	-
Engineer III	20 hrs.	x	$ 155.00 /hr	= $	3,100.00
Associate Engineer III	0 hrs.	x	$ 150.00 /hr	= $	-
Associate Engineer II	4 hrs.	x	$ 115.00 /hr	= $	460.00
Project Coordinator II	0 hrs.	x	$ 120.00 /hr	= $	-
Support III	0 hrs.	x	$ 105.00 /hr	= $	-
SUBTOTAL	42 hrs.		**SUBTOTAL**	$	**7,070.00**
Reimbursables					
Auto Rental	1 Day	x	$ 85.00 /Day=	$	85.00
Mileage	250 Mi	x	$ 0.560 /Mi=	$	140.00
Lodging + Tax & Fees	0 Day	x	$ 145.00 /Day=	$	-
Per Diem	0 Day	x	$ 64.00 /Day=	$	-
Travel & Airline Costs	0 Trip	x	$ 500.00 /Trip=	$	-
			SUBTOTAL	$	**225.00**
			SUBTOTAL	$	**7,295.00**

	TASK	LABOR CATEGORY								
		Principal	Project Manager III	Quality Control Manager	Engineer III	Associate Engineer III	Associate Engineer II	Project Coordinator II	Support III	Phase Item Costs
3.0	**Bidding Phase (Lump Sum)**									
3.1	Provide Bid Assistance		4		4					$ 1,400.00
3.2	Prepare Addenda		2		4		4			$ 1,470.00
3.3	Consult with Prospective Bidders		4		4					$ 1,400.00
3.4	Attend Bid Opening		4		4					$ 1,400.00
3.5	Review Bid Proposals		2		2					$ 700.00
3.6	Prepare Recommendation of Award		2		2					$ 700.00
	TOTALS	0	18	0	20	0	4	0	0	$ 7,070.00

Labor Category	Total Hours		Billing Rate		Total Cost
4.0 Manufacturing/Procurement Phase (Lump Sum)					
Principal	0 hrs.	x	$ 275.00 /hr	= $	-
Project Manager III	6 hrs.	x	$ 195.00 /hr	= $	1,170.00
Quality Control Manager	0 hrs.	x	$ 215.00 /hr	= $	-
Engineer III	4 hrs.	x	$ 155.00 /hr	= $	620.00
Associate Engineer III	0 hrs.	x	$ 150.00 /hr	= $	-
Associate Engineer II	4 hrs.	x	$ 115.00 /hr	= $	460.00
Project Coordinator II	0 hrs.	x	$ 120.00 /hr	= $	-
Support III	0 hrs.	x	$ 105.00 /hr	= $	-
SUBTOTAL	**14** hrs.		**SUBTOTAL**	**$**	**2,250.00**
Reimbursables					
Auto Rental	0 Mi	x	$ 85.00 /Mi=	$	-
Mileage	0 Day	x	$ 0.56 /Day=	$	-
Lodging + Tax & Fees	0 Day	x	$ 64.00 /Day=	$	-
Per Diem	0 Trip	x	$ - /Trip=	$	-
Travel & Airline Costs	0 Each	x	$ 500.00 /Trip=	$	-
			SUBTOTAL	**$**	**-**
			SUBTOTAL	**$**	**2,250.00**

TASK		LABOR CATEGORY								
		Principal	Project Manager III	Quality Control Manager	Engineer III	Associate Engineer III	Associate Engineer II	Project Coordinator II	Support III	Phase Item Costs
4.0	**Manufacturing/Procurement Phase (Lump Sum)**									
4.1	Preparation of Contract for Equipment Manufacturer		2				4			$ 850.00
4.2	Support During Manufacturing/Procurement of Equipment		4		4					$ 1,400.00
	TOTALS	0	6	0	4	0	4	0	0	$ 2,250.00

Labor Category	Total Hours		Billing Rate		Total Cost
5.0 Post Manufacturing Coordination Phase (Lump Sum)					
Principal	0 hrs.	x	$ 275.00 /hr	= $	-
Project Manager III	8 hrs.	x	$ 195.00 /hr	= $	1,560.00
Quality Control Manager	0 hrs.	x	$ 215.00 /hr	= $	-
Engineer III	8 hrs.	x	$ 155.00 /hr	= $	1,240.00
Associate Engineer III	0 hrs.	x	$ 150.00 /hr	= $	-
Associate Engineer II	32 hrs.	x	$ 115.00 /hr	= $	3,680.00
Project Coordinator II	0 hrs.	x	$ 120.00 /hr	= $	-
Support III	0 hrs.	x	$ 105.00 /hr	= $	-
SUBTOTAL	**48** hrs.		**SUBTOTAL**	**$**	**6,480.00**
Reimbursables					
Auto Rental	1 Day	x	$ 85.00 /Day=	$	85.00
Mileage	250 Mi	x	$ 0.560 /Mi=	$	140.00
Lodging + Tax & Fees	0 Day	x	$ 145.00 /Day=	$	-
Per Diem	0 Day	x	$ 64.00 /Day=	$	-
Travel & Airline Costs	0 Trip	x	$ 500.00 /Trip=	$	-
			SUBTOTAL	**$**	**225.00**
			SUBTOTAL	**$**	**6,705.00**

TASK		LABOR CATEGORY								
		Principal	Project Manager III	Quality Control Manager	Engineer III	Associate Engineer III	Associate Engineer II	Project Coordinator II	Support III	Phase Item Costs
5.0	**Post Manufacturing Coordination Phase (Lump Sum)**									
5.1	Conduct Final Inspection		4		4					$ 1,400.00
5.2	Prepare Final Construction Report		2		4		32			$ 4,690.00
5.3	Summarize Project Costs		2							$ 390.00
	TOTALS	0	8	0	8	0	32	0	0	$ 6,480.00

	Phase Fee	Reimbursable Costs	Total Cost
PART A - BASIC SERVICES (LUMP SUM)			
1.0 Preliminary Design Phase (Lump Sum)	$ 7,900.00	$ -	$ 7,900.00
2.0 Design Phase (Lump Sum)	$ 14,730.00	$ -	$ 14,730.00
3.0 Bidding Phase (Lump Sum)	$ 7,070.00	$ 225.00	$ 7,295.00
SUBTOTAL	$ 29,700.00	$ 225.00	$ 29,925.00
PART B - SPECIAL SERVICES (LUMP SUM)			
4.0 Manufacturing/Procurement Phase (Lump Sum)	$ 2,250.00	$ -	$ 2,250.00
5.0 Post Manufacturing Coordination Phase (Lump Sum)	$ 6,480.00	$ 225.00	$ 6,705.00
SUBTOTAL	$ 8,730.00	$ 225.00	$ 8,955.00
TOTAL	**$ 38,430.00**	**$ 450.00**	**$ 38,880.00**