

COMMUNITY BUSINESS DEVELOPMENT PARTNERS MILWAUKEE COUNTY

COMMITMENT TO CONTRACT WITH DBE

(This form is to be completed by the bidder/proposer and the DBE named for submission with bid/proposal)

PROJECT No.: A158-12009

LF Green Development, LLC

PROJECT TITLE: RUNWAY 7R DEICE PAD PROJECT - TYPE A CONTRACT

Scope of Work

Detailed Description

Environmental Review and Inspection for

TOTAL CONTRACT AMOUNT: \$ 651,096.96 (without expenses)

Name & Address of DBE(*)

LINGA

DBE-14 (12/01/14) Previous Editions Obsolete

Verified with: ____

DBE Goal: 25%

DBE Contract

Amount

\$10,000

% of Total

Contract

1,536%

LF Green Development, LLC 5600 W Brown Deer Rd. – Suite 120 Milwaukee, WI 53223	Contaminated Soils and Handling	\$10,000
(* Separate commitment form must be completed for each DBE firm)		
Bidder/Proposer Commit	nent (To be completed by firm committing	work to DBE)
I certify that the DBE firm listed quoted the negotiated with, and having received confirmated & Hunt, Inc. Will enter into contract with the DBE firm listed copy of the contract between our firm and the from receipt of Notice-to-Proceed on this contract with the DBE firm lister copy of the contract between our firm and the from receipt of Notice-to-Proceed on this contractions under applicable law. Signature of Authorized Representative Company of	e identified service(s) and cost(s). I furtheration, on partnering, pricing and delivery from (Phone No. 608-273-6380) d, for the service(s) and amount(s) specified at of the named DBE will be submitted directly intract. The information on this form is true	r acknowledge our firm having DBE firm listed herein. Our firm D), or one of our subcontractors, when awarded this contract. A to CBDP within seven (7) days and accurate to the best of my nation will result in appropriate
Only firms certified as DBEs (within qualifying NAICS and	s) by the State of Wisconsin UCP prior to bid/proposal op	ening will be credited on this contract
DBE Affirmation (16 be	completed by DBE Owner/Authorized Rep	resentative)
 listed in the State of Wisconsin UCP is acknowledge and accept this common herein, as put forth by Mead & Hunt. I understand and accept that this common county project specified herein to be 	JCP has certified our company as a DBE, ar Directory. Itment to contract with my firm for the service(snc. – Attn: Greg Stern – Phone No. 608-273-6 commitment is for service(s) to be rendered completed with my own forces, unless otherw be obtained prior to subletting any portion of	s) and dollar amount(s) specified 6380. in completion of the Milwaukee ise approved by CBDP.
	Linda J. Fellenz	March 5, 2015
Signature of Authorized DBE Representative	Name & Title of Authorized DBE Representative	Date
	FOR CBDP USE ONLY	
Commitment number 2 of 3 Pro	ect Total: (A) (V) \$ / (\$	28.3 Total % 28.3



COMMUNITY BUSINESS DEVELOPMENT PARTNERS MILWAUKEE COUNTY

COMMITMENT TO CONTRACT WITH DBE

(This form is to be completed by the bidder/proposer and the DBE named for submission with bid/proposal)

PROJECT No.: <u>A158-12009</u>

M-Squared Engineering W62N215 Washington Ave

Verified with:

DBE-14 (12/01/14) Previous Editions Obsolete

PROJECT TITLE: RUNWAY 7R DEICE PAD PROJECT - TYPE A CONTRACT

Scope of Work
Detailed Description

Survey Verification, Inspection Assistance

TOTAL CONTRACT AMOUNT: \$651,096,96 (without expenses)

Name & Address of DBE(*)

DBE Goal: 25%

DBE Contract

Amount

\$81,387,12

% of Total

Contract

12.50%

Cedarburg, WI 53012	1 1 1	
(* Separate commitment form must be completed for each DBE firm)		
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I certify that the DBE firm listed quoted the negotiated with, and having received confirmation of the manual of the manual of the manual of the manual of the contract between our firm and that from receipt of Notice-to-Proceed on this continuously of the contract between our firm and that from receipt of Notice-to-Proceed on this continuously of the latest that falsification is the contract of the latest that the latest the	ion, on partnering, pricing and delivery fro (Phone No. 608-273-6), for the service(s) and amount(s) specifi of the named DBE will be submitted dire tract. The information on this form is tru	om DBE firm listed herein. Our firm 380), or one of our subcontractors, led when awarded this contract. A city to CBDP within seven (7) days ue and accurate to the best of my
sanctions under applicable law. Signature of Authorized Representative	Cred Steen - PROTECT MARKGER Name & Tille of Authorized Representative	03/06/2015 Date
Subscribed and sworn to before me in sign	day of March , 20 15	_
Signature of Notary Public NOTARY	State of WI	n expires <u>\$-28-16</u> .
[SEAL] PUBLIC		
Only firms certified as DBEs (within qualifying NAICS todes	by the State of Wisconsin UCP prior to bid/proposa	I opening will be credited on this contract
DBE Affirmation (To be c	ompleted by DBE Owner Authorized R	epresentative)
 listed in the State of Wisconsin UCP Di I acknowledge and accept this commit 	CP has certified our company as a DBE, irectory. ment to contract with my firm for the service. c. – Attn: Greg Stern – Phone No. 608-27	ce(s) and dollar amount(s) specified
 I understand and accept that this cor County project specified herein to be or 	mmitment is for service(s) to be rendered ompleted with my own forces, unless other obtained prior to subletting any portion	ed in completion of the Milwaukee erwise approved by CBDP.
this project. Signature of Authorized DBE Representative	Minal Hahm / President Name & Tille of Authorized DBE Representative	4 3/10/2015 Date
元的。北京中央国际外 公司公司法律出口。	FORGEDFUSE ONLY	
Commitment number of Project	ct Total: (A) 43, 43, 95 (4) \$ /	2828-17/2% Total % 28,4%



COMMUNITY BUSINESS DEVELOPMENT PARTNERS **MILWAUKEE COUNTY**

COMMITMENT TO CONTRACT WITH DBE (This form is to be completed by the bidder/proposer and the DBE named for submission with bid/proposal)

PROJECT No.: A158-12009 PROJECT TI	TLE: <u>RUNWAY 7R DEICE PAD PROJECT - 1</u>	<u>(YPE A CONTRAC</u>	<u>T</u>
TOTAL CONTRACT AMOUNT: \$ 651,096.96	without expenses) DBE Goal: 2	<u>25%</u>	
	Scope of Work	DBE Contract	% of Total
Name & Address of DBE(')	Detailed Description	Amount	Contract
Soils & Engineering Services, Inc.	Materials Inspection and Testing	\$94,210.29	14.469%
1102 Stewart Street	materials inspection and results	Ψ0+,210,20	17.40378
Madison, WI 53713-4648			
(* Separate commitment form must be completed for each DBE firm)			
Bidder/Proposer Commitm	ent (To be completed by firm committing w	ork to DBE)	
I certify that the DBE firm listed quoted the negotiated with, and having received confirmat Mead & Hunt, Inc. Will enter into contract with the DBE firm listed copy of the contract between our firm and that from receipt of Notice-to-Proceed on this cont knowledge. I further understand that falsificate sanctions under applicable law.	ion, on partnering, pricing and delivery from D (Phone No. 608-273-6380) , for the service(s) and amount(s) specified v of the named DBE will be submitted directly t tract. The information on this form is true a	BE firm listed here, or one of our sub when awarded this to CBDP within sevent accurate to the ation will result in	in. Our firm contractors, contract. A /en (7) days best of my
Signature of Authorized Representative	Name & Title of Authorized Representative	Date	
Signature of Marry Public NOTAR [SEAL] PUBLIC Only firms certified as DBEs within qualifying WAICS codes	day of March , 20 15 State of WI My Commission explose by the State of Wisconsin UCP prior to bid/proposal oper	n ing will be credited on th	
DEE Affilmation (To be c	ompleted by DBE Owner/Authorized Repre	sentátivé)	
 I affirm that the State of Wisconsin UCP Di listed in the State of Wisconsin UCP Di 	CP has certified our company as a DBE, and	itnat our company	s currently
	nent to contract with my firm for the service(s)	and dellar	(-)
herein as out forth by Mead & Hunt In	c. – Attn: Greg Stern – Phone No. 608-273-63	and dollar amount	(s) specified
 I understand and accept that this cor 	nmitment is for service(s) to be rendered in ompleted with my own forces, unless otherwis	completion of the	Milwaukee
I affirm that approval from CBDP will be this project.	e obtained prior to subletting any portion of the	is work awarded to	o my firm on
Signature of Authorized DBE Representative	Duane E. Reichel, PE / Corporate Secretary Name & Title of Authorized DBE Representative	March 6, 2015 Date	
	FOR CBDP USE ONLY		
Commitment number 3 of 3 Project	t Total: (A) 94 210 29 (4.486) \$	Total %	285
Verified with:	EAuthorized Signature	34	09/15
DRF-14 /12/01/14) Provinus Editions Obsolete	e i majorican difficinta		Pale

General Mitchell International Airport Runway 7R Deice Pad Project Project No. A158-12009 – TYPE C Contract Construction Management Services Work Scope March 6th, 2015

Project Description:

General Mitchell International Airport (MKE) intends to construct a concrete deicing pad to be located near the approach end of Runway 7R, in the area generally bound between the existing Cargo Apron and Taxiways A, A4 and A5. The project consists of filling-in the existing turf area with approximately 50,000 square yards of a proposed 18" concrete airfield pavement section, the installation of approximately 5,500 feet of storm sewer of various sizes, 35 drainage structures and approximately 2,800 feet of trench drain. Drainage between the existing cargo apron, Taxiway A and the proposed deice pad will be conveyed to either clean or dirty trench drains that will connect to either existing discharge storm sewers or to a centrally located, cast-in-place, diversion chamber structure.

During deicing operations, the diversion chamber will direct glycol runoff to a lift station to be located west of Taxiway A5 by means of gravity flow through an 18" concrete storm sewer. The lift station will pump the glycol runoff via 8" ductile iron force main to a 100,000 gallon bolted steel storage tank. Both the lift station and storage tank will be accessed via new concrete roadways and driveways that will extend from the existing airfield perimeter road. The glycol storage and conveyance infrastructure will include related influent / effluent valves, a truck fill station, lighting, and related electrical and mechanical improvements associated with the actuator and motor controls for the valves and direction of flow. When deicing operations are not in effect, the diversion chamber will drain to existing storm sewer that will convey the clean runoff to an existing detention facility located south of Runway 7R.

The project will also include ancillary improvements such as removal and replacement of existing airfield pavements, earthwork, airfield edge lighting, signing and related conduit and cable. The project also includes the removal and installation of underdrains, adjustment to existing electrical and storm sewer structures, removal of existing camera infrastructure, and items for erosion control, marking, barricades, safety fencing and landscaping.

The project was designed by the Airport and a consulting team comprised of CDM-Smith, Baker, and K-Singh Associates. The project has been separated into a Base Bid and two Alternates.

The Base Bid includes much of the deep underground storm sewer and structures for the project and includes the central diversion chamber but excludes the trench drains. The base bid also includes small segments of pavement removal and replacement, electrical, safety fencing and barricades, erosion control and landscaping.

Alternate 1 is comprised mostly of the earthwork, proposed 18" concrete pavement section, trench drains, underdrains, airfield edge lighting and electrical, and also includes additional segments of storm sewer and related structures.

Alternate 2 includes the work to provide pumping and storage infrastructure for the glycol runoff collected and drained from the pad. It will include the lift station, influent and effluent valve vaults, the 8" force main, the 100,000 gallon storage tank and foundation, concrete driveways and access roadways, and related electrical, storm sewer and site grading.

The Airport opened bids on the above described project in July 2014. Cornerstone Pavers was identified as the lowest responsive and responsible bidder. The Base Bid and Alternate 1 have been awarded, and processes are currently underway to also award Alternate 2. Cornerstone has expressed an interest in starting the project right away in April 2015, or as soon as weather conditions allow.

Overview of Construction Management Services:

This work scope includes Construction Management (CM) services to be rendered for the project. Given the processes and timelines required for County approvals, the Airport has communicated that the overall CM contract may not be signed in advance of construction. As such, the Airport will is establishing an initial and separate Type B contract through Mead & Hunt's annual consultant agreement with the Milwaukee County Department of Administration. The separate initial contract will encompass Section 1 (Pre-Construction) tasks. The work under this Type C scope includes work tasks identified in Section 2 (Construction Management), Section 3 (Resident Engineering & Material Testing) and Section 4 (Post Construction Services) all of which are outlined in greater detail within the following pages.

The overall scope of services has been developed commensurate with the required project completion dates, and through preliminary correspondence with the Airport's project manager. The project special provisions outline that base bid work shall be completed within 90 calendar days from the start date identified in the Notice to Proceed. Alternate 1 shall be completed within 120 calendar days from the start date identified on a separate Notice to Proceed, and Alternate 2 shall be completed within 150 calendar days from the start date identified on a separate Notice to Proceed. In correspondence with the Airport, Construction Management services shall be scoped with the assumption of an April 6th 2015 construction start date, and shall extend through December 4th 2015.

Overview of Mead & Hunt staff, sub-consultants and resources:

Mead & Hunt shall assign a Project Manager (PM) who will be the primary point of contact for the Airport, Contractor, FAA and the design (CA) team. The PM will be responsible for the oversight of Mead & Hunt staff and sub-consultants assigned to the project. The PM will schedule and preside over the weekly progress meetings and be responsible for organizing, reviewing and developing overall approval / response to requests for information (RFIs), proposed material substitutions, change orders, construction bulletins, weekly progress reports, meeting minutes, construction payments, and other forms and documentation required during the project. The PM will additionally be responsible for coordinating gate guard staffing requirements with the Airport's Security department, and for review of safety barricades, fencing and FOD control with Airport Operations. The PM will help with construction inspection as warranted, clarify the plans and specifications, and work to resolve issues that may develop in the field during construction.

Mead & Hunt shall assign a Resident Engineer (RE) who will be a full-time field presence dedicated to construction oversight, documentation of conditions, and work progress. The RE will maintain a construction journal to be used for development of weekly progress reports that outline weather

conditions, contractor's work force and equipment, and the controlling items of work. The RE shall measure and record quantities of work completed on a daily basis and compare to contractor's values. The RE shall document conversations and any field decisions or adjustments made to the plans within the construction journal, and shall maintain a red-lined set of drawings documenting as-built conditions and any variations from original plan.

Mead & Hunt shall also assign an experienced materials inspector who is familiar with airport construction, airfield pavements, and the associated materials and testing requirements to develop the Construction Management Plan (CMP). The materials inspector will review and provide feedback on the contractor's QC plan and will establish the QA processes for testing. The material inspector will work closely with the Consultant's sub consultant, Soils and Engineering Services (SES), to anticipate grading and pavement testing needs and to coordinate and schedule SES staff accordingly to supplement as necessary during busier periods of construction. He will work with SES to assign the lots to each area of grading and pavement material testing, will run the PWL calculations and will inspect that the type and frequency of testing is completed in accordance with project specifications. The material inspector will make routine inspections of the contractor's plants and aggregate sources and will obtain certifications for materials as necessary. He will identify and report to the PM and RE any failed test results or materials that do not conform to the project requirements, and overall help identify any items of work requiring additional effort, correction or adjustment during construction.

The Project Manager (PM), Resident Engineer (RE) and materials engineer will serve as the core Mead & Hunt staff during construction. The RE will be an everyday, full-time field presence and this scope assumes 10-hour days with five days of Saturday work. The PM will also be on site daily, with primary focus at the start and end of each day to coordinate staff and ensure that the project is properly secured, barricaded and cleaned of FOD. The PM will assist with inspection as the construction schedule dictates, and this scopes assumes ¾ time construction involvement when not paving, and full-time involvement during paving operations. The materials engineer will be on site to perform tests / inspections or assist the DBE testing firm, and will be a full-time presence during paving operations.

Mead & Hunt shall also make available badged field engineers to assist with more specialized areas of construction on a daily basis (as needed) throughout the project. This will include an engineer with airport glycol management experience to assist with the construction oversight, testing, start-up and commissioning of the lift station, valve vaults, fill station, storage tank, diversion chamber, and assistance with air-testing of the storm sewer. Additional mechanical and electrical engineers will also be badged and made available for periodic assistance to the project, as warranted.

Mead & Hunt intends to utilize three (3) primary DBE sub consultants during the construction phase of the project to provide the following services:

- 1. Material inspection and testing assistance (Soils and Engineering Services, Inc.) 13.5%
- 2. Periodic monitoring for the presence of contaminated soil during grading and documentation of material transported on the airport. (LF Green Development, LLC). 1.5%
- Construction inspection assistance for storm sewer and paving and survey grade verifications (M-Squared) – 11.5%

SECTION II Construction Management

6.0 Construction Management

The engineer agrees to provide the management engineering services required for the execution of the contracted work. A project manager (PM) will be assigned to the project and will be responsible for the overall management and review of construction progress, as well as pay requests. The PM will review and provide comment on project compliance issues for quality control testing performed by the Contractor. The PM will review the project on a daily basis and will make site visits to monitor construction activities. These services shall include, but are not limited to, the following:

- Check construction activities to obtain compliance with plans and specifications.
- Provide interpretation of plans and specifications.
- Supervise and coordinate sub-consultant contracts for field inspection (M-Squared) and testing (SES and LF Greene Development, LLC). Monitor overall CM staff, budget and oversee invoicing.
- Review shop drawings and contractor submitted certificates for compliance with design concepts.
- Establish and conduct weekly construction progress meetings with the contractor, Airport
 representatives, the FAA and impacted tenants to discuss pertinent construction issues such as
 schedules, runway and taxiway closures, materials submittals, mix design approvals, secured area
 access, and the need for traffic control or gate guards.
- Review and distribute weekly progress reports.

- Meet with the Airport Project Manager for consultation and advice during construction.
- Assist the Airport Project Manager in coordinating construction schedules and phasing to minimize impact on airport operations in coordination with other airport projects.
- Prepare and submit periodic pay estimates, including the final estimate, during the construction project. The PM will submit periodic payment recommendations to the Airport and FAA (if necessary) for concurrence. The PM as an experienced and qualified professional, will make payment recommendations from information that is gathered during on-site visits, provided by the contractor, reviewed from payment applications and accompanying data and schedules, or as measured by the Resident Engineer in the field. The PM shall resolve variations in quantities between the contractors, the plan quantities and/or measurements taken in the field.
- Lead any FAA coordination and submittals required for changes to the construction safety phasing plan or related airspace submittals needed during construction.
- Prepare change orders which include a cost estimate, cost/price analysis and record of negotiations.
 PM shall prepare and negotiate all necessary interpretations and clarifications, additions and deletions to change orders, and supplemental agreements as required. PM shall submit copies to the Airport and the FAA for approval and signature before proceeding with the work. Any additional design would not be considered in the scope of this task order.
- Assist the Airport PM with the preparation of reimbursement requests from grants as needed.
- Verify that all testing required by the specifications is performed, and review all materials reports
 prepared in accordance with the Construction Management Plan.
- Review payroll reports and monitor contractor's compliance with paying employees, per the
 Davis-Bacon Act requirements and prevailing wage rates provided in the contract documents.
- Monitor contractor's compliance with Disadvantaged Business Enterprise program.

SECTION III RESIDENT ENGINEERING AND MATERIAL TESTING

7.0 Resident Engineering and Material Testing

This task will include resident engineering, construction staking verification, inspection, and construction materials testing for the duration of the project. A dedicated resident engineer (RE) will be assigned to this project, as will a materials engineer, inspectors and surveyors. The RE will be onsite full time to coordinate and schedule staff, answer questions, observe quality control activities, process progress reports, make field measurements of quantities, and record as-built changes. Additionally, the RE will monitor compliance with plans and specifications, provide entries in the construction journal, assist in pay request processing, and report any non-compliance issues to the Airport, Contractor and PM.

The resident engineer shall maintain a construction journal to record the construction history of the project. The journal will be made available to the Owner upon request for review during inspections or visits. The project journal should include, but not be limited to, the following information - weather conditions, job site conditions, work in progress, general location of work, equipment in use, contractors work force and hours worked, delivered materials, tests performed, failed tests (if any) and action taken, instructions to contractors, record of visitors to project and verbal or written instructions given, record of telephone conversations and any verbal instructions received or authorizations granted, engineering field force activity and hours worked, and any delays to construction and the reason for delays. The journal should be in a bound book of good quality that is easy to handle and carry.

The materials inspector will have overall responsibility for the oversight and completion of all material testing performed by both the contractor (QC) and the CM staff (QA). The materials inspector will conduct field tests as the construction schedule allows, or will otherwise coordinate and schedule the DBE sub-consultant, SES, to supplement these operations during the busier periods of construction.

Resident engineering, inspection, and survey verification services shall include, but are not limited to, the following:

- Observe and check surveys conducted by the contractor for accordance with the plans and specifications.
- Check construction activities for compliance with plans and specifications.
- The Resident Engineer shall notify the contractor of any failure of the work or materials to
 conform to the requirements of the contract, plans, or specifications. The Resident Engineer may
 reject nonconforming materials and will notify the contractor to suspend any work in question,
 until such issues can be referred to the Owner for a final decision.
- Maintain daily records of the contractor's progress and activities during the course of construction
 and include progress of all work. These records will document work in progress, quality and
 quantity of materials delivered, test locations and results, instructions provided the contractor,
 weather conditions, equipment use, labor requirements, safety problems, and required changes.

- Evaluate and determine the acceptability of substitute construction materials and/or equipment proposed by the contractor. Evaluate the contractor's suggestions on drawing or specification modifications and report those suggestions to the PM and Owner.
- Consultant shall monitor the contractor's compliance with the Construction Operations and Safety Plan and immediately bring non-compliance issues to the attention of the contractor.
- Furnish the Owner and FAA with periodic construction progress and inspection reports and make these available on the project's SharePoint site.
- · Check and submit reports on shop drawings and construction submittals.
- Document modifications made during the course of construction as redlines within the project's working drawings.
- Throughout the project, furnish the contractor with a list of items that were observed and require completion or correction. These shall be revisited as ongoing action items at the weekly progress meetings until satisfactorily addressed.

Material inspection services shall include, but are not limited to, the following:

- Review and approve material submittals and mix designs for proposed pavements.
- Receive from contractor and review the required maintenance and operating instructions, guarantees, bonds, inspection certificates, tests, approvals, etc.
- Make necessary acceptance tests in accordance with the cited requirements and standard methods of FAA, ASTM, AWWA and AASHTO.
- Record all test results on the appropriate forms and prepare a summary and disposition of all testing and materials inspection; and record all deviating tests.
- Observe and evaluate quality control tests made by the contractor either in the field or laboratories located at quarries or pavement batch plants as necessary in accordance with plans and specifications.
- Evaluate and determine the acceptability of substitute materials and/or admixture modifications proposed to the pavement mix designs during construction.
- Monitor contractor's performance of the required quality control tests.
- Immediately bring any non-compliance issues to the attention of the PM, the contractor and Owner.
- Organize, document and provide copies of all test results and make available via the project SharePoint site.

SECTION IV POST CONSTRUCTION SERVICES

8.0 Final Inspection and Documentation

8.1 Final Inspection

Consultant will schedule and conduct a final inspection with the Airport representatives, the contractor, the CA design team and the FAA to determine whether the project has reached substantial completion and verify that the work is in accordance with the plans and specifications. The consultant will document items found to be deficient and will provide the contractor a listing of those items.

8.2 Final Punch List

Consultant will prepare a punch list correspondence to include the deficient items and will forward the correspondence to the contractor. It will state the items in need of correction and will request a schedule for completion. The Consultant will send a copy to the Owner and include a copy in the Grant Closeout Report.

8.3 Supplemental Coordination, Inspections and Final Construction Certifications

Following the final inspection and the development of the final punch list, Mead & Hunt will schedule and coordinate with the contractor and Airport Operations for follow-up access to the work site to complete outstanding items of work. Once all of the punch list items have been completed to the satisfaction of Mead & Hunt, all representatives of the Airport, the CA team and the FAA, a Certification of Construction Acceptance will be prepared for the project. This certification will also be included in the closeout report. All work completed under the project will be subject to a 1 year warranty, and this scope includes time for a follow up inspection with the Owner in the Spring or early Summer of 2016 to confirm the performance of equipment and quality and durability of construction.

9.0 As-Built Plans, Equipment Manuals, Materials Book

9.1 As-Built Plans

The CM team will collaboratively assemble the project as-built plans in cooperation with the CA design team. The as-built plans will specify field constructed conditions included as part of this project, such as any field surveying required to compute final quantities. Any drawings will become record information. The CM team shall provide the Owner and CA team with a set of scanned, redlined field drawings for development of the final as-built plans in CAD format.

9.2 Equipment Manuals

Working with the CA design team, the Mead & Hunt team will collaboratively assemble the equipment operation and maintenance manuals for the project. Once the CA team has reviewed and approved that all the pertinent manuals and maintenance information has been supplied, the project equipment manuals will be collected and bound into one document for use by the Airport. The Owner will receive two (2) copies of the bound documents and scanned .pdf files.

9.3 Materials Book

The project team will collaboratively assemble the materials quality book for the project. The materials book will include an accounting for all quality acceptance testing performed as part of this project. This will include a summary of passing tests, as well as failing tests and corrective measures taken to in order to achieve satisfactory results. The Owner will receive two (2) copies of these documents.

Construction Engineering Fee ARPORT: General Mitchell International Aurort
LOGATION: Milwaukee, WI PROJECT NO. A158-12009
PROJECT DESCREPTION: Construction Management - Runway 7R Deice Pad (TYPE C)

	PHASE II - CONSTRUCTION MANAGEMENT	Engineering Fee
6.0		\$142,992,45 \$0.00 \$142,992.45
	PHASE III - RESIDENT ENGINERING (TYPE C CONTRACT)	
0.7	Resident Engineering Expenses TOTAL PHASE II - RESIDENT ENGINEERING	\$295,847.50 \$8,875,00 \$304,722.50
	PHASE IV - POST CONSTRUCTION SERVICES	
0.8	_	\$12,578,96 \$14,080,64 \$0,00
	EXPENSES TOTAL PHASE IV - POST CONSTRUCTION SERVICES	\$26,659.60
2	TOTAL MEAD & HUNT FEES	\$474,374.55

	Fee
v Verification (M-Squared) vements (SES, Inc.) onal Handing, DNR Coord, (LF Greene)	\$81,387,12 \$94,210,29 \$10,000,00 \$0,00
Expenses	DO:U4

\$659,971.96

TOTAL ENGINEERING FEES

PROJECT NUMBER: A158-12009 DATE: 6-Mar-15 REV. NO:

											-	
	Project	Resident	Materials	Municipal	Electrical	Associate	IT Technician	Clerical	CAD Technicían	Total		Cost
ltern No	\$146.17	\$95,16	\$145,05	\$139,63	\$91.95	\$87.00	\$80.00	\$72.11	\$80.00	Hours		Summary
PHASE II - CONSTRUCTION MANAGEMENT	MENT											
en Construction Management												
•	999	0	0	0	0	0	0	0	0	865		\$96,538.05
Provide intermetation of plans and specifications	\$	0	0	0	0	0	0	0	0	40		\$5,806.80
Supervise and coordinate field inspection/lesting	35	0	0	0	0	0	0	0	0	35		\$5,080.95
Review shop drawings/certificates for compliance	0	0	o	0	0	0	0	0	0	0		\$0.00
· Review all final pay estimates	35	0	٥	0	0	0	0	Ô	0	35		\$5,080,95
Review weekb progress reports	35	0	0	0	0	0	o	Q	0	35		\$5,080,95
Prepare/recommend approval of change orders	0	0	0	0	0	0	O	Q	0	0		\$0.00
Owner consultation and construction advice	35	0	0	O	Û	0	0	0	0	35		\$5,080,95
Assist Owner with reimbursement requests	35	0	0	0	0	0	0	O	0	35		\$5,080,95
. Coordinate/document final construction inspection		0	0	0	0	0	0	0	0	0]	\$0.00
Verify testing requirements and materials reports	35	0	o	0	0	0	0	0	0	35	-	\$5,080,95
. Undafe record drawings during construction	0	0	0	0	0	0	0	a	0	0		20.00
. Review navrol reports and contractor compliance	35	o	0	0	0	0	0	0	0	35		\$5,080.95
Monitor contractor compliance with DBE program	35	g	0	0	0	0	0	0	0	35		\$5,080,95
Estimated Total Man-hours	586	o	0	o	0	0	0	0	0	385		***************************************
Summary Costs	\$14	\$0.00	\$0,00	\$0.00	\$0.00	\$0.00	\$0.00	\$0,05	\$0.00			\$142,992,46
Fxbabses											Rafe	
Auto Renial	0	0	0	0	0	0	0	0	0	0 Days	\$75.00	\$0.00
Milange	0	0	0	0	0	0	0	0	o	O Miles	\$1.00	\$0.00
Lodging and Per Dlem		0	0	0	0	0	0	۰	a	0 Days	\$80.00	\$0.00
Travel and Airline Costs		٥	0	0	0	0	0	ō	Ů	o Trips	\$500.00	20.00
Compuler Costs		o	0	0	0	0	0	0	0	0	220.00	20.00
Testing Materials & Equipment	0	٥	0	0	0	0	0	0	0	0	\$25.00	20,00
Olher		0	0	0	0	0	0	0	0	0	\$45.00	\$0.00
Olhar		٥	0	o	0	0	0	0	0	0	\$50.00	\$0.00
Other		0	0	0	0	0	0	0	0	0	\$100.00	\$0.00
Other	0	0	0	0	0	0	C	o	0	- 1	\$50.00	\$0,00
The state of the s	Marketon .									Total	Total Expenses	\$0.00
							Hd	ASE II - CON	PHASE II - CONSTRUCTION MANAGEMENT TOTAL	NAGEMENT	TOTAL	\$142,992.45
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,						***************************************					

	Cost	Summary						\$295,847,50	\$0.00	20.00	\$0.00	\$0.00	\$0.00	\$6.00	\$0.00	\$0,00	00'0\$	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00		\$295,847.50	Rate	\$75.00	\$1.00	\$100.00	1	\$50.00	\$41.00	\$50.00	20200	\$50.00
	Total	Hours						2670	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2670			0 Days	1250 Miles	0 Days	0 Trips	0	125	20		> 0
	CAD Technician	580.00				0	0	0	0	0	0	0	Ð	0	0	0	0	0	0	0	0	0	0	0	٥	0	\$0.00		0	0	0	o	0	0	0	_	
	Clerical	\$72.11				0	0	0	0	0	o	0	0	Đ	Đ	0	0	0	0	0	0	0	0	0	0	0	\$0.00		0	٥	0	e	0	0	0		
	IT Technician	\$80.00	CASTALISM SERVICES			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0.00		0	0	O	0	0	0	0	-	
Activity	Engineer	\$87.00				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	. 0	\$0.00		0	0	O	0	0	0	0	5	
Charles	Engineer	\$91,96				9	10	30	0	O	0	0	0	0	0	0	0	0	0	0	0	0	O	0	0	30	\$2,758.50		0	0	0	¢	0	o	o i	_	
Merchales	Engineer	\$139.53				10	10	100	0	0	Q	0	0	0	0	0	0	0	D	0	0	0	0	0	0	100	\$13,953.00		0	0	0	0	0	٥	0		
Material	Inspector	\$146.05				20	10	200	0	0	0	0	0	0	0	0	0	0	0	O	٥	0	0	0	0	600	\$72,525.00		0	0	0	0	c	0	0	=	
1	Engineer	\$95.15				179	10	1790	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1790	\$170,318.50		0	0	0	C	٥	0	C	-	
,	Manager	\$146.17				20	ເລ	250	0	0	0	0	0	0	0	0	0	o	o	0	0	0	0	0	0	260	\$36,292,50		0	o	0	0	0	0	P	-	
		No	1 23	FINANCIII - KROIDONII BINGIMBERINGO	7.0 Resident Engineering	1		Total Hours	Provide silveys, inspect confractor surveys	Check construction activates for compliance	Conduct material inspection and acceptance tests	Monitor contractor's quality control tests	Notify contractor/Owner - nonconforming materials	Maintain daily construction progress records	Prenare and submit change orders	Evaluate substitute materials and equipment	Furnish Owner and FAA with Inspection reports	Review contractor bayrolfs, drawings, and reports	Acrisice and review required contractor submittals	Prepare and cubmit periodical and final estimates	Conduct inspection for final approval	Coordinate, attend, and document final inspection	inspect project to monitor for compliance to plans	Monitor Construction Operations and Safety Plan	Conduct weekly construction progress meetings	Estimated Total Man-hours	Summary Costs	Expenses	Auto Rental	Mileage	Lodging and Per Diem	Travel and Altithe Costs	Computer Costs	Nuclear Density Guage	Survey and Inspection Equipment	Cipari	

PHASE III - RESIDENT ENGINEERING TOTAL \$304,722.50

	Protect	Resident	Materials	Municipal	Electrical	Associate						
ман	Manager	Engineer	Inspector	Engineer	Engineer	Engineer	IT Technician	Clerical	CAD Technician	Total		Cost
No.	\$146.17	\$95.15	\$145.05	\$139.63	\$91,95	\$87,00	\$80.00	\$72.11	\$80.00	Hours		Summary
PHASE IV - POST CONSTRUCTION SERVICES	WICES											
an Einel Inspection and Documentation												
1	8	32	8	8	8	0	0	0	0	64		\$7,218.40
1	8	4	4	4	0	0	0	0	0	20		\$2,680,28
	8	4	4	4	0	0	0	0	0	20		\$2,680.28
	24	9	9	\$	60	G	0	o	•	104		
Summary Costs	\$3,484.08	\$3,806.00	\$2,320,80	\$2,232.48	\$735.60	50.00	\$0.00	\$0.00	\$0.00			\$12,578.96
90 As-Built Plans, Equipment Manuals, Materials Book	Ąc											
	8	24	8	8	4	0	0	0	0	52	_	\$6,089,40
	₹	*	8	83	8	0	0	0	٥	32	_	\$3 973.52
1	4	0	16	S)	0	0	0	0	0	28	-	\$4,017.72
Estimated Total Man-hours	16	28	32	72	12	0	•	0	o	112		
Summary Costs	\$2,322.72	\$2,664.20	\$4,641.60	\$3,348.72	\$1 103,40	\$0.00	\$0.00	\$0.00	\$0.00			\$14,080,64
Expenses											Rate	
Auto Rental	0	0	0	0	0	0	0	0	0	0 Days	\$75.00	\$0.00
Mileago	0	Đ	0	0	0	. 0	0	0	0	0 Miles	\$1.00	\$0.00
Lodging and Per Diem	0	0	0	0	ъ	0	0	0	0	0 Days	\$150.00	\$0.00
Travel and Airline Costs	0	0	Ð	0	0	0	0	0	0	0 Trips	\$600.00	\$0.00
Computer Coets	0	0	0	0	0	0	0	o	0	o	\$50.00	\$0.00
Other	0	0	0	0	O	Ō	0	0	0	D	\$25.00	\$0.00
Oiher	0	0	0	٥	o	0	0	٥	0	o	\$45.00	\$0.00
Olher	0	0	0	0	O	0	0	¢	0	0	\$50.00	\$0.00
Other	0	0	0	0	0	0	0	O	0	0	\$100,00	\$6.00
Other	0	0	0	0	0	Ö	0	0	i o	0	\$50.00	\$6.00
The state of the s										Tota	Total Expenses	\$0.00
							PHAS	F.IV - POST	PHASE IV - POST CONSTRUCTION SERVICES TOTAL	N SERVICES	TOTAL	\$26 659 60
		***************************************										200000000000000000000000000000000000000