

LEEDY & PETZOLD ASSOCIATES, LLC

Consulting Electrical Engineers/Planners

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May 27, 2015

Milwaukee County Department of Public Works
Airport Engineers Office
General Mitchell International Airport
5300 South Howell Avenue
Milwaukee, WI 53207-6189

Attention: Mr. Timothy Kipp, P.E.
Project Manager

Subject: *Proposal for Professional Engineering Add Services
for the Parking Structure Relighting
at General Mitchell International Airport
Project No. A096-10012*

Dear Mr. Kipp:

In accordance with your request wherein you requested that Leedy & Petzold Associates, LLC provide a contract to finish documenting the parking structure electrical efforts. We are pleased to submit this project scope and fee proposal outlining the consulting engineering services associated with the overall project for your consideration.

This Proposal is based upon the following scope of services relative to this project as currently understood by our office:

1. Provide Design Services for the final accepted and approved Parking Structure Relighting Master Plan Report consisting of Design Development and Construction Documents services.
 - Project shall comply with Milwaukee County's green building policy.
 - Construction phasing plans shall adequately maintain parking operations.
 - Current revenue control system functions shall not be interrupted during normal operational periods.
 - Include "Buy American" language for lighting components and equipment.
 - Provide detailed opinion of probable construction costs for review at the Schematic Design, Design Development, 95% Design competition and Construction Documents phases.
 - Revise lighting in original parking structure and car rental area.
 - New conduit (PVC or EMT) in original structure.
 - New fixtures in North Lot, reuse circuitry unless survey results indicate conductor aging.
 - Revise ramp lighting and relight helixes.
 - Submit paperwork to Air Traffic Control form 7460 which will involve the perimeter points and height of pole.
 - In Design Development Stage attempt to minimize closet quantity from 6 per floor down to 4 per floor.

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- Feeder currently terminated in SG/4 gear (west side) – needs to be documented to receive its service from the north end of SG/4 where it will receive its power from the powerhouse.
 - Provide documentation for the following:
 - Relight and provide all new conductors in new conduit south structures.
 - Relight north structure.
 - Explore and possibly relocate the existing revenue control system to a new first floor electrical closet (located in the west elevator lobby between original and west parking addition) Airport Engineering will assist.
 - North parking structure will be a one to one light replacement.
 - Sixth floor lighting – replace lighting one for one.
 - All stairwell lights are going to be replaced by airport maintenance with LED lighting and occupancy sensors. This should be tied into proposed parking circuits.
 - Develop present elevator lobbies (two sets – north and south between original and west addition) into electrical closets. Re-circuit to these rooms.
 - Extend duct package to elevator lobbies where proposed electrical closets are located.
 - Develop preliminary fault current and voltage drop calculations when sizing the breakers. Final calculations will be provided by contractor of record.
 - Provide alternate bids on gear and other items if requested.
 - Provide accurate as-builts.
 - Bid set plans requested no later than late 8/30/2015.
 - Develop construction phasing plan for light fixture installation and base it around areas of the structure that were shut down for other reasons.
 - Provide pre-bid cost estimate.
2. Provide Bidding and Construction Administration services for the components of the project included in the Design Services shall be provided in cooperation with a Construction Management team that may either consist of DPW personnel or a consultant under separate agreement with the Owner.
- The consultant shall conduct a pre-bid conference and prepare meeting minutes.
 - The consultant shall coordinate with GMIA for the advertisement for bids.
 - Prepare required Addenda in response to bidders' technical questions.
 - Review bids received and make recommendation to award contract.
 - Review contractor submittals, VE proposals, process RFI's and assist the construction manager with preparation of change orders as required.
 - Participate in site visits, construction meetings, and substantial and final completion inspections.
 - Attend pre-bid meeting and help conduct.
 - Review contractor bids.

Assumptions:

- GMIA will assist with Federal and State paperwork submittal.
- GMIA will replace all stairwells with new lighting units, installed by their staff.
- Bid set will be one set with one specification.
- GMIA will provide any necessary backgrounds in AutoCAD format.

The services provided as a consultant to your office will include preparation of technical electrical drawings and specifications suitable for bidding and construction purposes, consistent with practice here in Wisconsin. Engineering design will be in accordance with documented program criteria provided.

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Design services will include Code required subsystems, i.e., emergency power system interconnections and other facilities required by the National Electrical Code.

The service product to be furnished includes preparation of one (1) copy of technical specification in Microsoft Word 2013 format and AutoCad 2013 electrical drawings on CD disk, with an original bid set of the Construction Documents, bearing the seal of the Registered Professional Engineer in charge from the State of Wisconsin.

Based on the foregoing, we propose to perform the professional consulting engineering services for the following a lump sum fees (see the attached Fee Proposal spread sheet);

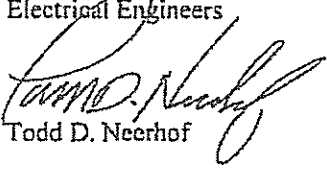
- Design, Bidding, & Construction Administration Services
 - Parking Structure Lighting – Eighty Five Thousand Four Hundred Dollars (85,400.00).

To fulfill Milwaukee County's Disadvantaged Business Enterprise (DBE) goals we propose to engage the services of Hurt Electric, Inc. and American Design, Inc. to perform site survey, architectural design and mechanical engineering associated the scope of the project. We propose to employ one or more of these firms for the goal of 25.0 percent of the total contract amount, as further detailed in the attached Fee Proposal spreadsheet.

We appreciate your selection of our firm for this project and look forward to working with you and your staff. Should you have any questions or reservations regarding the foregoing, please call for further discussion on the matter.

Very truly yours,

LEEDY & PETZOLD ASSOCIATES, LLC
Electrical Engineers



Todd D. Neerhof

TDN cb
Proposals/2015/985-A/Proposal

LEEDY AND PETZOLD ASSOCIATES, LLC
CONSTANT EFFORT SPREADSHEET

Date: May 27, 2015
Milwaukee County Project No. A09G-10012
Project: EMV Parking Structures Phase 2 Re-lighting and Service Panel Design Services

| CLASSIFICATION | Principal | | Associate | | Technician | | Admin. Asst. | | LPA | | DBE Sub-Consultant | | DBE Sub-Consultant | | Total Billing Cost | | |
|----------------------------|-----------|--------------|-----------|--------------|------------|-------------|--------------|-------------|--------------|--------------|--------------------|-------------|--------------------|--------------|--------------------|--------------|--------------|
| | Hours | Dollars | Hours | Dollars | Hours | Dollars | Hours | Dollars | Hours | Dollars | Hours | Dollars | Hours | Dollars | Hours | Dollars | |
| LABOR RATES | | | | | | | | | | | | | | | | | |
| BILLING RATES | | \$140.00 | | \$128.21 | | \$52.50 | | \$61.25 | | | | \$100.00 | | \$100.00 | | | |
| DESIGN DEVELOPMENT | | | | | | | | | | | | | | | | | |
| Review Lighting Layout | 10.0 | \$ 1,400.00 | 50.0 | \$ 6,410.25 | 40.0 | \$ 2,100.00 | | \$ | 100.0 | \$ 9,910.25 | 16.0 | \$ 1,600.00 | | \$ | 316.0 | \$ 11,510.25 | |
| New Closet Layouts | 0.0 | \$ 1,120.00 | 30.0 | \$ 3,846.15 | 20.0 | \$ 1,050.00 | | \$ | 50.0 | \$ 6,016.15 | 0.0 | \$ | 65.0 | \$ 6,500.00 | 131.0 | \$ 13,316.15 | |
| Lighting Fixture Pre Bid | 4.0 | \$ 560.00 | 24.0 | \$ 3,509.21 | 4.0 | \$ 210.00 | 1.0 | \$ 245.00 | 40.0 | \$ 4,694.74 | | \$ | | \$ | 40.0 | \$ 4,694.74 | |
| Review Double Ended | | \$ | 16.0 | \$ 2,851.20 | 0.0 | \$ 420.00 | 2.0 | \$ 122.50 | 26.0 | \$ 2,971.70 | | \$ | | \$ | 26.0 | \$ 2,971.70 | |
| Switchgear Conductors | | \$ | 12.0 | \$ 1,538.66 | 12.0 | \$ 630.00 | | \$ | 72.0 | \$ 2,160.46 | | \$ | | \$ | 32.0 | \$ 2,160.46 | |
| Update Low Voltage | | \$ | 24.0 | \$ 3,076.92 | 16.0 | \$ 840.00 | 6.0 | \$ 362.50 | 46.0 | \$ 4,204.42 | | \$ | | \$ | 46.0 | \$ 4,204.42 | |
| FAA Submittals | | \$ | | | | | | | | | | | | | | | |
| CONSTRUCTION SVCS. | | | | | | | | | | | | | | | | | |
| Review Lighting Layout | 10.0 | \$ 1,400.00 | 45.0 | \$ 5,769.23 | 10.0 | \$ 525.00 | 6.0 | \$ 167.50 | 71.0 | \$ 8,061.73 | | \$ | | \$ | 71.0 | \$ 8,061.73 | |
| New Closet Layouts | 0.0 | \$ 1,120.00 | 10.0 | \$ 1,282.05 | 10.0 | \$ 525.00 | 6.0 | \$ 167.50 | 14.0 | \$ 3,294.55 | | \$ | 65.0 | \$ 6,500.00 | 99.0 | \$ 9,794.55 | |
| Lighting Fixture Pre Bid | 4.0 | \$ 560.00 | 16.0 | \$ 2,071.20 | 2.0 | \$ 105.00 | | \$ | 22.0 | \$ 2,716.28 | | \$ | | \$ | 22.0 | \$ 2,716.28 | |
| Review Double Ended | | \$ | 16.0 | \$ 2,851.20 | 4.0 | \$ 210.00 | | \$ | 20.0 | \$ 2,261.20 | | \$ | | \$ | 20.0 | \$ 2,261.20 | |
| Switchgear Conductors | | \$ | 4.0 | \$ 512.82 | 4.0 | \$ 210.00 | | \$ | | \$ 722.82 | | \$ | | \$ | 0.0 | \$ 722.82 | |
| Update Low Voltage | | \$ | 8.0 | \$ 1,025.64 | 0.0 | \$ 420.00 | 2.0 | \$ 122.50 | 10.0 | \$ 1,560.14 | | \$ | | \$ | 10.0 | \$ 1,560.14 | |
| FAA Submittals | | \$ | | | | | | | | | | | | | | | |
| CONSTRUCTION ADMIN. | | | | | | | | | | | | | | | | | |
| Review Lighting Layout | 0.0 | \$ 1,120.00 | 24.0 | \$ 3,076.92 | | \$ | | \$ | | \$ 4,196.92 | | \$ | 15.0 | \$ 1,500.00 | 15.0 | \$ 3,696.92 | |
| New Closet Layouts | | \$ | 26.0 | \$ 4,615.28 | | \$ | 2.0 | \$ 122.50 | | \$ 4,737.80 | | \$ | 15.0 | \$ 1,500.00 | 13.0 | \$ 6,237.80 | |
| Lighting Fixture Pre Bid | | \$ | 24.0 | \$ 3,076.92 | | \$ | 2.0 | \$ 122.50 | | \$ 3,199.42 | | \$ | 15.0 | \$ 1,500.00 | 15.0 | \$ 4,699.42 | |
| Review Double Ended | 4.0 | \$ 560.00 | 24.0 | \$ 3,076.92 | | \$ | | \$ | | \$ 3,636.92 | | \$ | 13.0 | \$ 1,500.00 | 15.0 | \$ 5,136.92 | |
| Switchgear Conductors | | \$ | | \$ | | \$ | | \$ | | \$ | | \$ | | \$ | 0.0 | \$ | |
| Update Low Voltage | | \$ | | \$ | | \$ | | \$ | | \$ | | \$ | | \$ | 0.0 | \$ | |
| FAA Submittals | | \$ | | \$ | | \$ | | \$ | | \$ | | \$ | | \$ | 0.0 | \$ | |
| TOTAL | 56.0 | \$ 7,840.00 | 167.0 | \$ 47,051.24 | 130.0 | \$ 2,245.00 | 30.0 | \$ 1,037.50 | 467.0 | \$ 63,973.74 | 24.0 | \$ 2,400.00 | 170.0 | \$ 19,000.00 | 601.0 | \$ 85,373.74 | |
| Review Lighting Layout | | | | | | | | | | | | | | | | | |
| New Closet Layouts | | | | | | | | | | | | | | | | | |
| Lighting Fixture Pre Bid | | | | | | | | | | | | | | | | | |
| Review Double Ended | | | | | | | | | | | | | | | | | |
| Switchgear Conductors | | | | | | | | | | | | | | | | | |
| Update Low Voltage | | | | | | | | | | | | | | | | | |
| FAA Submittals | | | | | | | | | | | | | | | | | |
| TOTAL | 171.0 | \$ 22,168.90 | 16.0 | \$ 1,000.00 | | \$ | | \$ | 177.0 | \$ 22,168.90 | 16.0 | \$ 1,000.00 | 15.0 | \$ 1,500.00 | 202.0 | \$ 25,268.90 | |
| Review Lighting Layout | | | | | | | | | | | | | | | | | |
| New Closet Layouts | | | | | | | | | | | | | | | | | |
| Lighting Fixture Pre Bid | | | | | | | | | | | | | | | | | |
| Review Double Ended | | | | | | | | | | | | | | | | | |
| Switchgear Conductors | | | | | | | | | | | | | | | | | |
| Update Low Voltage | | | | | | | | | | | | | | | | | |
| FAA Submittals | | | | | | | | | | | | | | | | | |
| TOTAL | 62.0 | \$ 10,220.41 | 0.0 | \$ | | \$ | | 62.0 | \$ 10,220.41 | 0.0 | \$ | | \$ | 15.0 | \$ 1,500.00 | 77.0 | \$ 12,020.41 |
| Review Double Ended | | | | | | | | | | | | | | | | | |
| Switchgear Conductors | | | | | | | | | | | | | | | | | |
| Update Low Voltage | | | | | | | | | | | | | | | | | |
| FAA Submittals | | | | | | | | | | | | | | | | | |
| TOTAL | 46.0 | \$ 8,491.78 | 0.0 | \$ | | \$ | | 46.0 | \$ 8,491.78 | 0.0 | \$ | | \$ | 15.0 | \$ 1,500.00 | 61.0 | \$ 9,991.78 |
| Review Lighting Layout | | | | | | | | | | | | | | | | | |
| New Closet Layouts | | | | | | | | | | | | | | | | | |
| Lighting Fixture Pre Bid | | | | | | | | | | | | | | | | | |
| Review Double Ended | | | | | | | | | | | | | | | | | |
| Switchgear Conductors | | | | | | | | | | | | | | | | | |
| Update Low Voltage | | | | | | | | | | | | | | | | | |
| FAA Submittals | | | | | | | | | | | | | | | | | |
| TOTAL | 46.0 | \$ 61,973.74 | 24.0 | \$ 2,400.00 | | \$ | | 46.0 | \$ 61,973.74 | 24.0 | \$ 2,400.00 | 190.0 | \$ 19,000.00 | 601.0 | \$ 85,373.74 | | |

Note: Schematic phase complete with the last phase of work.