

To: All Plan Holders

Project: Electrical Improvements Project

Airport: Mid Valley Airport

KSA Project No.: WSL.015

Date: Monday, March 22, 2021

Client Project No.: TxDOT CSJ No. 2021WESLA

The plans, specifications, and contract documents are modified as described below. All bidders shall acknowledge receipt of this and all other addenda on page 6 of 7 on the revised bid form titled **REVISED PER ADDENDUM NO. 1**. This addendum becomes a part of the contract documents. All provisions of the original plans, specifications, and contract documents shall remain in full force and effect, except as modified by this addendum.

I. Contract Document Revisions

A. **Bid Form**

Replace with the **Revised** Bid Form. Note that the award of bids will be based on the bid items and quantities listed in the **Revised** Bid Form. Any variance in the bid submittals from the **Revised** Bid Form will result in the bid being disqualified.

II. Specification Revisions

A. Specification L-125, Installation of Airport Lighting Systems

1. Delete this item in its entirety and replace with the attached Specification L-125, Installation of Airport Lighting Systems shown as Addendum No. 1 in the footer.

III. Attachments

- A. Revised Bid Form
- B. Specification L-125, Installation of Airport Lighting Systems
- C. Contractor Questions and Responses
- D. Pre-Bid Meeting Agenda
- E. Pre-Bid Meeting Sign In

Addendum No. 1 Issued By:

KSA

Nathan T. Mikell, P.E.
Senior Project Engineer



TBPE Firm Registration No. F-1356

Item L-125 Installation of Airport Lighting Systems

DESCRIPTION

125-1.1 This item shall consist of airport lighting systems furnished and installed in accordance with this specification, the referenced specifications, and the applicable advisory circulars (ACs). The systems shall be installed at the locations and in accordance with the dimensions, design, and details shown in the plans. This item shall include the furnishing of all equipment, materials, services, and incidentals necessary to place the systems in operation as completed units to the satisfaction of the **Engineer RPR**.

EQUIPMENT AND MATERIALS

125-2.1 General.

- a.** Airport lighting equipment and materials covered by Federal Aviation Administration (FAA) specifications shall be certified under the Airport Lighting Equipment Certification Program in accordance with AC 150/5345-53, current version. FAA certified airfield lighting shall be compatible with each other to perform in compliance with FAA criteria and the intended operation. If the Contractor provides equipment that does not perform as intended because of incompatibility with the system, the Contractor assumes all costs to correct the system for to operate properly.
- b.** Manufacturer's certifications shall not relieve the Contractor of their responsibility to provide materials in accordance with these specifications and acceptable to the **Engineer RPR**. Materials supplied and/or installed that do not comply with these specifications shall be removed, when directed by the **Engineer RPR** and replaced with materials, which do comply with these specifications, at the sole cost of the Contractor.
- c.** All materials and equipment used shall be submitted to the **Engineer RPR** for approval prior to ordering the equipment. Submittals consisting of marked catalog sheets or shop drawings shall be provided. Clearly mark each copy to identify pertinent products or models applicable to this project. Indicate all optional equipment and delete non-pertinent data. Submittals for components of electrical equipment and systems shall identify the equipment for which they apply on each submittal sheet. Markings shall be clearly made with arrows or circles (highlighting is not acceptable). The Contractor shall be responsible for delays in the project accruing directly or indirectly from late submissions or resubmissions of submittals.
- d.** The data submitted shall be sufficient, in the opinion of the **Engineer RPR**, to determine compliance with the plans and specifications. The Contractor's submittals shall be submitted in electronic PDF format and tabbed by specification section. The **Engineer RPR** reserves the right to reject any or all equipment, materials or procedures, which, in the **Engineer RPR**'s opinion, does not meet the system design and the standards and codes, specified herein.
- e.** All equipment and materials furnished and installed under this section shall be guaranteed against defects in materials and workmanship for a period of at least twelve (12) months (forty-eight (48) months for LED lighted signs and non-obstruction lights) from final acceptance by the Owner. The defective materials and/or equipment shall be repaired or replaced, at the Owner's discretion, with no additional cost to the Owner.

EQUIPMENT AND MATERIALS

125-2.2 Conduit/Duct. Conduit shall conform to Specification Item L-110 Airport Underground Electrical Duct Banks and Conduits.

125-2.3 Cable and Counterpoise. Cable and Counterpoise shall conform to Item L-108 Underground Power Cable for Airports.

125-2.4 Tape. Rubber and plastic electrical tapes shall be Scotch Electrical Tape Numbers 23 and 88 respectively, as manufactured by 3M Company or an approved equal.

125-2.5 Cable Connections. Cable Connections shall conform to Item L-108 Installation of Underground Cable for Airports.

125-2.6 Retroreflective Markers. [Retroreflective markers shall be type L-853 and shall conform to the requirements of AC 150/5345-39.] [Not required.]

125-2.7 Runway and Taxiway Lights. Runway and taxiway lights shall conform to the requirements of AC 150/5345-46. Lamps shall be of size and type indicated, or as required by fixture manufacturer for each lighting fixture required under this contract. Filters shall be of colors conforming to the specification for the light concerned or to the standard referenced.

Lights

Type	Class	Mode	Style	Option	Base	Filter	Transformer	Notes
L-861	2	1	N/A	4	Existing	N/A	Per Mnfg	Elevated 14"
L-861E	2	1	N/A	4	Existing	N/A	Per Mnfg	Elevated 14"
L-861(L)	2	1	N/A	4	Existing	N/A	Per Mnfg	Elevated 14"
L-861E(L)	2	1	N/A	4	Existing	N/A	Per Mnfg	Elevated 14"

125-2.8 Runway and Taxiway Signs. Runway and Taxiway Guidance Signs should conform to the requirements of AC 150/5345-44.

Signs

Type	Size	Style	Class	Mode	Notes
L-858Y	1	2	2	2	
L-858R	1	2	2	2	
L-858L	1	2	2	2	

125-2.9 Runway End Identifier Light (REIL). [The REIL fixtures shall meet the requirements of AC 150/5345-51, Type L-849I(L) LED, Style C

125-2.10 Precision Approach Path Indicator (PAPI). [The light units for the PAPI shall meet the requirements of AC 150/5345-28, Type L-880(L), Style A, Class I.

125-2.11 Circuit Selector Cabinet. Not used

125-2.12 Light Base and Transformer Housings. Light Base and Transformer Housings should conform to the requirements of AC 150/5345-42. Light bases shall be Type L-867, Class 1A, Size B shall be provided as indicated or as required to accommodate the fixture or device installed thereon. Base plates, cover plates, and adapter plates shall be provided to accommodate various sizes of fixtures.

125-2.13 Isolation Transformers. Isolation Transformers shall be Type L-830, size as required for each installation. Transformer shall conform to AC 150/5345-47.

INSTALLATION

125-3.1 Installation. The Contractor shall furnish, install, connect and test all equipment, accessories, conduit, cables, wires, buses, grounds and support items necessary to ensure a complete and operable airport lighting system as specified here and shown in the plans.

The equipment installation and mounting shall comply with the requirements of the National Electrical Code and state and local code agencies having jurisdiction.

The Contractor shall install the specified equipment in accordance with the applicable advisory circulars and the details shown on the plans.

125-3.2 Testing. All lights shall be fully tested by continuous operation for not less than 24 hours as a completed system prior to acceptance. The test shall include operating the constant current regulator in each step not less than 10 times at the beginning and end of the 24-hour test. The fixtures shall illuminate properly during each portion of the test.

125-3.3 Shipping and Storage. Equipment shall be shipped in suitable packing material to prevent damage during shipping. Store and maintain equipment and materials in areas protected from weather and physical damage. Any equipment and materials, in the opinion of the RPR, damaged during

construction or storage shall be replaced by the Contractor at no additional cost to the owner. Painted or galvanized surfaces that are damaged shall be repaired in accordance with the manufacturer's recommendations.

125-3.4 Elevated and In-pavement Lights. Water, debris, and other foreign substances shall be removed prior to installing fixture base and light.

A jig or holding device shall be used when installing each light fixture to ensure positioning to the proper elevation, alignment, level control, and azimuth control. Light fixtures shall be oriented with the light beams parallel to the runway or taxiway centerline and facing in the required direction. The outermost edge of fixture shall be level with the surrounding pavement. Surplus sealant or flexible embedding material shall be removed. The holding device shall remain in place until sealant has reached its initial set.

METHOD OF MEASUREMENT

125-4.1 Reflective markers will be measured by the number installed as completed units in place, ready for operation, and accepted by the **Engineer RPR**. Runway and taxiway lights will be measured by the number of each type installed as completed units in place, ready for operation, and accepted by the **Engineer RPR**. Guidance signs will be measured by the number of each type and size installed as completed units, in place, ready for operation, and accepted by the **Engineer RPR**. Runway End Identifier Lights shall be measured by each system installed as a completed unit in place, ready for operation, and accepted by the **Engineer RPR**.

Precision Approach Path Indicator shall be measured by each system installed as a completed unit, in place, ready for operation, and accepted by the **Engineer RPR**. Abbreviated Precision Approach Path Indicator shall be measured by each system installed as a completed unit, in place, ready for operation, and accepted by the **Engineer RPR**.

BASIS OF PAYMENT

125-5.1 Payment will be made at the Contract unit price for each complete runway or taxiway light, guidance sign, reflective marker, runway end identification light, precision approach path indicator, or abbreviated precision approach path indicator installed by the Contractor and accepted by the RPR. This payment will be full compensation for furnishing all materials and for all preparation, assembly, and installation of these materials, and for all labor, equipment, tools and incidentals necessary to complete this item.

Payment will be made under:

- L-125-5.1 Remove existing and install new L-861 and L-830 – per each
- L-125-5.2 Remove existing L-861 and L-830. Install new L-861(L) and L-830 – per each
- L-125-5.3 Remove existing and install new L-861E and L-830 – per each
- L-125-5.4 Remove existing L-861E and L-830. Install new L-861S(L) and transformer – per each
- L-125-5.5 Remove existing and install new one module sign and L-830 – per each
- L-125-5.6 Remove existing and install new two module sign and L-830 – per each
- L-125-5.7 Remove existing and install new three module sign and L-830 – per each
- L-125-5.8 Remove existing and install new L-849(I) (L) and L-830 – per pair

L-125-5.9 Install L-880 (L), local disconnect switch, step-up transformer and frangible support rack and associated components – per set

REFERENCES

The publications listed below form a part of this specification to the extent referenced. The publications are referred to within the text by the basic designation only.

Advisory Circulars (AC)

AC 150/5340-18	Standards for Airport Sign Systems
AC 150/5340-26	Maintenance of Airport Visual Aid Facilities
AC 150/5340-30	Design and Installation Details for Airport Visual Aids
AC 150/5345-5	Circuit Selector Switch
AC 150/5345-7	Specification for L-824 Underground Electrical Cable for Airport Lighting Circuits
AC 150/5345-26	Specification for L-823 Plug and Receptacle, Cable Connectors
AC 150/5345-28	Precision Approach Path Indicator (PAPI) Systems
AC 150/5345-39	Specification for L-853, Runway and Taxiway Retroreflective Markers
AC 150/5345-42	Specification for Airport Light Bases, Transformer Housings, Junction Boxes, and Accessories
AC 150/5345-44	Specification for Runway and Taxiway Signs
AC 150/5345-46	Specification for Runway and Taxiway Light Fixtures
AC 150/5345-47	Specification for Series to Series Isolation Transformers for Airport Lighting Systems
AC 150/5345-51	Specification for Discharge-Type Flashing Light Equipment
AC 150/5345-53	Airport Lighting Equipment Certification Program

Engineering Brief (EB)

EB No. 67	Light Sources Other than Incandescent and Xenon for Airport and Obstruction Lighting Fixtures
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END OF ITEM L-125

To: All Plan Holders

Project: Electrical Improvements Project

Airport: Mid Valley Airport

KSA Project No.: WSL.015

Date: Monday, March 22, 2021

Client Project No.: TxDOT CSJ No. 2021WESLA

1. Question: Is survey required for all equipment or just the new/relocated equipment?
Response: **At a minimum survey will be required for all proposed or relocated equipment.**
2. Question: Bid item, 6.04 seeding disturbed areas. Is there a quantity for this item or location shown on drawing to figure out where this is required?
Response: **The location for seeding of disturbed areas is not shown on any sheets. The intent of this item is to restore areas where the ground has been disturbed due to construction activities such as PAPI demolition, PAPI installation, rotating beacon demolition, rotating beacon installation, relocating segmented circle and windcone, installation of airfield guidance signs, installation of conduit, etc.**
3. Question: Procurement time is shown as 60 calendar days. Some materials have lead time up to 10-12 weeks. Will an extension be allowed for these items?
Response: **We are aware that some of the materials have extended lead times. In these instances, our expectations are that foundations, conduit, wiring, etc. would be installed/completed to the maximum extent possible. If all other work is complete, other than the delivery/installation of these long lead time items, then contract time would be suspended until the materials are delivered. Upon material delivery, contract time would resume until the materials have been installed and the equipment is fully functioning.**
4. Question: 50 calendar days to complete all construction items seems short. Is an extension possible to complete this work?
Response: **The contract time for the project shall be 50 calendar days as stated in the bid form.**
5. Question: Bid item, 5.06 is shown as lump sum. Do you have a quantity for this item?
Response: **We believe the quantity to be approximately to be 100' of conduit and 250' of cable based on record drawings. However, the amount bid for this item shall cover any and all conduit and cable that are discovered out in the field.**
6. Question: Alternate #3 is titled Remove Existing Rotating Beacon and install new rotating beacon. I believe this should be the allowance for new generator correct?
Response: **Correct. Please refer to the revised bid form where this has been corrected.**
7. Question: Bid item 1.05 is for (8) new threshold lights. Plans show (16), please verify.
Response: **Bid item 1.05 reflects the award of only quartz MIRL's. In the instance where no alternates are awarded only 8 threshold lights on Runway 32 end will need to be replaced. However, in the instance where alternate no. 1 (LED MIRL's) is awarded, threshold lights would be replaced on both ends of Runway 14-32.**
8. Question: For existing base cans to remain, is the internal ground lug and ground wire new or existing?
Response: **The internal ground lug is existing.**
9. Question: Please confirm that the signs are quartz.
Response: **The proposed airfield guidance signs are to be quartz.**

10. Question: Specs list signs as size 2; sign schedule lists signs as size 1. Please clarify.
Response: All signs are to be size 1. Refer to the attached L-125 specification included with this addendum.
11. Question: Are baffles required for the proposed PAPI units?
Response: Baffles are required for the proposed PAPI units, and the baffles are to be internal baffles. Refer to item 2.09.
12. Question: What is the intent of Alternate No. 3?
Response: The intent of alternate no. 3 is to provide an allowance, that if awarded would be used for the removal of an existing emergency backup generator and installation of a new emergency backup generator. If alternate no. 3 is awarded, for the contractor to be able to bill to this item they will have to furnish invoices for material, labor, etc. associated with this item.
13. Question: In reviewing the contract documents we see that there are pay items associated with a stabilized construction exit and filter fabric fence. Please confirm these materials are needed.
Response: Please refer to the revised bid form where these items have been removed. These changes will be reflected on the summary of quantities, and other affected sheets, in the issued for construction contract documents.
14. Question: Is an office required for the RPR?
Response: An RPR office provided by the contractor is not required. This is reflected on the pre-bid agenda as well. The issued for construction documents will reflect this and note 35 on sheet 3 will be removed.
15. Question: What does the replacement of the light fixtures include?
Response: The replacement of the light fixtures shall include the replacement of the fixture itself, base plate, coupling, transformer and connectors.

Airport: Mid Valley Airport

Organizer: Nathan Mikell

Date: Wednesday, March 10, 2021 @ 1:30 PM

KSA Project No.: WSL.015

Project: Electrical Improvements Project

Client Project No.: TxDOT CSJ No. 2021WESLA

I. Sign In Sheet

II. Introductions and Roles

- A. Andrew Munoz, Airport Director, Mid Valley Airport
- B. Ed Mayle, Project Manager, TxDOT Aviation
- C. Craig Clairmont, Regional Manager, KSA
- D. Nathan Mikell, Senior Project Engineer, KSA

III. Bidding Procedures

- A. See Notice to Bidders and Instructions to Bidders section in Contract Documents for bidding information.
- B. All bidders are encouraged to review all contract documents including Mandatory Federal Contract Provisions, TxDOT General Provisions, Special Provisions, and Specifications.
- C. Technical questions/comments should be submitted to Craig Clairmont (cclairmont@ksaeng.com) or Nathan Mikell (nmikell@ksaeng.com) by Thursday, February 18, 2021, at 5:00 PM. Questions must be in writing and received prior to date mentioned. All questions asked during the pre-bid meeting shall be submitted in writing to KSA for official response.
- D. For other information visit the TxDOT Aviation website or call Sheri Quinlan at 512-416-4516.
- E. Sealed bids for the construction of airport improvements at the Mid Valley Airport are due to be delivered to Mr. Homer Rhodes, Purchasing Manager, 255 S. Kansas Avenue, Weslaco, Texas, 78596. Bids will be received until 2:00 PM, April 1, 2021, then publicly opened and read. Any bid received after closing time will be returned unopened. The bids will be opened and read aloud at the Weslaco City Hall, Purchasing Conference Room, 255 S. Kansas Avenue, Weslaco, Texas, 78596. All persons who attend the bid opening shall follow the City of Weslaco Health and Safety Measures related to the COVID-19 Public Health Emergency.
- F. Bid Proposal
 - 1. Bidders must utilize the bid proposal form provided on TxDOT's website.
 - 2. Bidders must provide pricing for the Base Bids and all Alternates. The contract award will be based on the lowest qualified bid plus any combinations of alternates.
- G. Bidders shall reference the TxDOT Aviation Division General Construction Contract Provisions as they are part of the contract.
 - 1. <http://txdot.gov/inside-txdot/division/aviation/general-provisions.html>
- H. Addenda
 - 1. Bidders are responsible for checking the TxDOT website regularly to check for any changes to the bid documents, such as Addendums.
- I. Contract will be awarded within 60 calendar days from bid opening.
- J. Federally funded project
 - 1. The DBE goal for this project is **10%**. Questions regarding DBE Goal percentage and Good Faith

Efforts should be directed to Sheri Quinlan at 512-416-4516.

2. If DBE plan is not supplied with bid, the DBE plan is due within 5 calendar days from bid opening (Tuesday, April 6, 2021 by 5:00 PM).
3. Failure to submit a DBE plan will result in the bid being deemed non-responsive.
4. Wage rate requirements will be required as shown in the Contract Documents.
5. Buy American – Steel and Manufactured Products for Construction Contracts (See Special Notice to Bidders).

K. Bidders List

1. To be placed on the Bidders List for this project, please send an email that includes the TxDOT CSJ No. for this project (2021WESLA), your company name, mailing address, and your phone & fax number to AVNRFQ@txdot.gov.

IV. **Scope of Work**

A. Base Bid

1. Partially Replace Runway 14-32 MIRLS
2. Remove and Replace Runway 32 PAPI-4 (Internal baffles)
3. Remove and Replace Airfield Guidance Signs
4. Relocate Primary Windcone and Construct Segmented Circle
5. Remove and Replace Runway 32 REILs

B. Alternate No. 1: LED MIRLS (Cost Difference From Quartz Lamp/Base Bid)

C. Alternate No. 2: Remove Existing Rotating Beacon and Install New Rotating Beacon

D. Alternate No. 3: Remove and Replace Emergency Backup Generator

V. **Site Access / Staging Areas**

A. Site Access and Staging Area

1. Contractor staging area and material storage areas shall be at the locations shown on the phasing sheet in the plan set. (Sheet 6)

VI. **Safety and Phasing Plan**

A. Contractor will be required to be in compliance with FAA Advisory Circular 150/5370-2G, Operational Safety on Airports during Construction.

B. Contractor will prepare a Safety Plan Compliance Document that outlines how they intend to comply with the established Construction Safety and Phasing Plan requirements.

C. Contractor to provide heights of construction equipment to Engineer.

D. Phase 1 (30 Calendar Days)

1. Electrical Work Located Within Runway 14-32 Safety Area. Contractor Needs to Focus on Electrical Work Inside Runway 14-32 Runway Safety Area. The Work Inside the Runway 14-32 Runway Safety Area will need to be completed within 30 Calendar Days.

E. Phase 2

1. Electrical Work Outside Runway 14-32 Safety Area. This work will need to be completed within the overall contract time.

VII. Other Information

A. Contract Time

1. 60 **Calendar** days for Procurement of Materials
2. 50 **Calendar** days for Construction
3. 0 **Calendar** days will be added to the contract time if any Alternates are awarded
4. Liquidated Damages are **\$1,000** per calendar day beyond contract time

B. RPR Office (Not required to be furnished by Contractor)

C. Materials Acceptance by Owner / Materials Quality Control by Contractor

D. Protection of any existing utilities in the project area is the responsibility of the Contractor. Engineer has endeavored to show all known utilities within the Contract documents, but this shall not relieve the Contractor from full responsibility in anticipating all underground obstructions, whether or not shown on the plans. Contractor should call for utility locates and verify locations of all utilities prior to starting construction.

E. SW3P – Contractor's Responsibility

F. Engineer's Construction Estimate

1. Base Bid = \$625,250
2. Alternate 1 = \$20,950
3. Alternate 2 = \$98,650
4. Alternate 3 = \$100,000

Notes:

[illegible]



Mid Valley Airport
Electrical Improvements Project
TxDOT CSJ No. 2021WESLA
Pre-Bid Sign In Sheet
Wednesday, March 10, 2021 @ 1:30 PM



NAME	ADDRESS	PHONE	EMAIL
CRAIG CLAIRMONT	KSA Engineers	281-494-3255	cclairmont@ksaeng.com
Ed Mayle	TxDOT, AVN	512-416-4528	ed.mayle@txdot.gov
James Frasciet	F&W Electrical	830-393-0083	jlf@fandwlectrical.com
Andrew Muñoz	City of Weslaco	(956) 969-0291	amunoz@weslacotx.gov
Joanna Fernandez	City of Weslaco	(956) 969-0291	jfernandez@weslacotx.gov
Homer Rhodes	City of Weslaco	(956) 447-2240	hrhodes@weslacotx.gov