

### TXDOT AVIATION STATEWIDE AIRPORT ELECTRICAL CONSTRUCTION PROJECT (AVSAE) - GROUP ALPHA TxDOT CSJ No. 4222AVSAEA

### ADDENDUM NO. 2

### May 2, 2025

### TO ALL PROSPECTIVE BIDDERS:

All bidders shall acknowledge receipt of this and all other addenda on page <u>7 of 8</u> of the Bid Form. <u>Failure to acknowledge receipt of an addendum may be cause for rejection of the bid.</u> 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.

A. You are hereby notified of the following amendments to the Bid Form for the subject project.

### a) No changes to the Bid Form in this addendum. A Revised Bid Form will be issued in the next and final addendum.

B. You are hereby notified of the following amendments to the Contract Documents/Specifications for the subject project.

### a) None

- C. You are hereby notified of the following amendments to the Construction Plans for the subject project.
  - a) Sheet E1.1 Airfield Electrical Legend. Revised verbiage for direct buried duct demolition. Added new detail
  - b) Sheet EE2.1 Airfield Electrical layout Plan. Revised detail 1 to clarify circuiting.
  - c) Sheet EE2.2 Airfield Electrical layout Plan. Revised detail 1 to clarify circuiting.
  - d) Sheet EE2.3 Airfield Electrical layout Plan. Revised detail 1 to clarify circuiting.
  - e) Sheet EG1.2 Airfield Electrical Demolition Plan. Revised detail 1 to clarify service entrance. Added new keyed note 5.
  - f) Sheet EG2.1 Airfield Electrical layout Plan. Revised detail 1 to clarify service entrance.
  - g) Sheet EG4.1 –Electrical Vault Plan. Revised details to clarify service entrance, remove door louver, show door step, clarify dimensions and HVAC.
  - h) Sheet EP1.1 Airfield Electrical Demolition Plan. Revised detail 1 to clarify scope. Added new keyed note 7.
  - i) Sheet EP1.2 Airfield Electrical Demolition Plan. Revised detail 1 to clarify scope. Added new keyed note 7.
  - j) Sheet EP1.3 Airfield Electrical Demolition Plan. Revised detail 1 to clarify scope. Added new keyed note 7.

- k) Sheet EP1.4 Airfield Electrical Demolition Plan. Revised detail 1 to clarify scope. Added new keyed note 7.
- 1) Sheet EP1.5 Airfield Electrical Demolition Plan. Revised detail 1 to clarify scope. Added new keyed note 7.
- m) Sheet EP1.6 Airfield Electrical Demolition Plan. Revised detail 1 to clarify scope. Added new keyed note 7.
- n) Sheet EP2.1 Airfield Electrical Layout Plan. Revised detail 1 to clarify circuit routing and revised sign legend.
- o) Sheet EP2.2 Airfield Electrical Layout Plan. Revised detail 1 to clarify circuit routing.
- p) Sheet EP2.3 Airfield Electrical Layout Plan. Revised detail 1 to clarify circuit routing.
- q) Sheet EP2.5 Airfield Electrical Layout Plan. Revised detail 1 to clarify circuit routing.
- r) Sheet EP2.6 Airfield Electrical Layout Plan. Revised detail 1 to clarify service entrance.
- s) Sheet EP4.1 –Electrical Vault Plan. Revised details to clarify service entrance, remove door louver, show door step, clarify dimensions and HVAC.
- t) Sheet EP6.2 Airfield Lighting Schedules. Revised Sign S1 into sign S1A and S1B. Revised Sign S7 into sign S7A and S7B.
- u) Sheet ER1.0 Airfield Electrical Demolition Plan. Added new keyed notes 10 and 11 to clarify demolition scope.
- v) Sheet ER1.2 Airfield Electrical Demolition Plan. Revised detail 1 to show existing circuits.
- w) Sheet ER1.3 Airfield Electrical Demolition Plan. Revised detail 1 to show existing circuits.
- x) Sheet ER1.4 Airfield Electrical Demolition Plan. Revised detail 1 to show existing circuits.
- y) Sheet ER1.5 Airfield Electrical Demolition Plan. Revised detail 1 to show existing circuits.
- z) Sheet ER1.6 Airfield Electrical Demolition Plan. Revised detail 1 to show existing circuits.
- aa) Sheet ER1.7 Airfield Electrical Demolition Plan. Revised detail 1 to show existing circuits.
- bb) Sheet ER1.8 Airfield Electrical Demolition Plan. Revised detail 1 to show existing circuits.
- cc) Sheet ER1.9 Airfield Electrical Demolition Plan. Revised detail 1 to show existing circuits.
- dd) Sheet ER1.10 Airfield Electrical Demolition Plan. Revised detail 1 to show existing circuits.
- ee) Sheet ER1.11 Airfield Electrical Demolition Plan. Revised detail 1 to show existing circuits.
- ff) Sheet ER2.1 Airfield Electrical Layout Plan. Revised detail 1 to renumber JCP's.
- gg) Sheet ER2.2 Airfield Electrical Layout Plan. Revised detail 1 to renumber JCP's.
- hh) Sheet ER2.5 Airfield Electrical Layout Plan. Revised detail 1 to renumber JCP's and correct alignment.
- ii) Sheet ER2.6 Airfield Electrical Layout Plan. Revised detail 1 to renumber JCP's and correct alignment.
- jj) Sheet ER2.10 Airfield Electrical Layout Plan. Revised detail 1 to renumber JCP's and correct alignment.
- kk) Sheet ER2.11 Airfield Electrical Layout Plan. Revised detail 1 to renumber JCP's and correct alignment.

- ll) Sheet ER6.1 –Airfield Lighting Schedules. Revised JCP schedule based on changes made to plans.
- mm) Sheet ES1.1 Airfield Electrical Demolition Plan. Revised detail 1 to clarify scope. Revised keyed notes 2 and 3.
- nn) Sheet ES1.2 Airfield Electrical Demolition Plan. Revised keyed notes 2 and 3.
- oo) Sheet ES1.3 Airfield Electrical Demolition Plan. Revised keyed notes 2 and 3.
- pp) Sheet ES1.4 Airfield Electrical Demolition Plan. Revised keyed notes 2 and 3.
- qq) Sheet ES2.1 Airfield Lighting Layout Plan. Revised detail 1 to clarify circuiting. Revised keyed notes 2 and 4.
- rr) Sheet ES2.2 Airfield Lighting Layout Plan. Revised detail 1 to rename JCP. Revised keyed notes 2 and 4.
- ss) Sheet ES2.3 Airfield Lighting Layout Plan. Revised detail 1 to rename JCP. Revised keyed notes 2 and 4.
- tt) Sheet ES2.4 Airfield Lighting Layout Plan. Revised detail 1 to rename JCP. Revised keyed notes 2 and 4.
- uu) Sheet ES4.1 –Electrical Vault Plan. Revised details to keep existing regulator as spare, modifued load center to reuse breakers.
- vv) Sheet ES6.1 –Airfield Lighting Schedules. Revised JCP schedule based on changes made to plans.
- ww) Sheet ET1.1 Airfield Electrical Demolition Plan. Revised detail 1 to clarify circuiting scope.
- xx) Sheet ET2.2 Airfield Lighting Layout Plan. Revised detail 1 to clarify circuiting scope.
- yy) Sheet ET2.3 Airfield Lighting Layout Plan. Revised detail 1 to clarify circuiting scope.
- zz) Sheet ET2.4 Airfield Lighting Layout Plan. Revised detail 1 to clarify circuiting scope.
- aaa) Sheet ET2.5 Airfield Lighting Layout Plan. Revised detail 1 to clarify circuiting scope.
- bbb) Sheet ET2.6 Airfield Lighting Layout Plan. Revised detail 1 to clarify service entrance scope.
- ccc) Sheet ET6.1 –Airfield Lighting Schedules. Revised JCP schedule based on changes made to plans.
- D. A copy of the pre-bid meeting minutes, and sign-in sheet are included with this addendum.
- E. Additional Clarification and Questions
  - a) See Q&A with meeting minutes.

### ADDENDUM NO. 2 ISSUED BY:

#### Ferguson Consulting, Inc.

Ferguson Consulting, Inc. 281.252.9232 ph



C. Lecette Ferguson, P.E., R.C.D.D. Airfield Electrical Engineer

TBPE Firm Registration No. 81460



### TXDOT AVIATION STATEWIDE AIRFIELD ELECTRICAL CONSTRUCTION PROJECT **GROUP ALPHA**

### **TXDOT CSJ NO.: 4222AVSAEA LOCHNER PROJECT NO.: 20616**

26R Jackson County Airport	CSJ No. 2413EDDNA
T20 Roger M. Dreyer Memorial Airport	CSJ No. 2416GONZA
PSX Palacios Municipal Airport	CSJ No. 2413PALCS
RKP Aransas County Airport	CSJ No. 2416ROCKP
84R Smithville Crawford Municipal Airport	CSJ No. 2414SMITH
TRL Terrell Municipal Airport	CSJ No. 2418TEREL

### **PRE-BID MEETING MINUTES** Tuesday, April 22, 2025 | 10:00 a.m.

#### I. Sign In Sheet:

#### II. **Identify Key Personnel:**

- A. Ed Mayle, Project Manager, TxDOT
- B. Rick McClure, Airport Manager, Jackson County Airport
- C. Ralph Camarillo, Airport Manager, Roger M. Dreyer Memorial Airport
- D. Tammy McDonald, City Representative, Palacios Municipal Airport
- E. Manuel Guevara, Airport Manager, Palacios Municipal Airport
- F. Mike Geer, Airport Manager, Aransas County Airport
- G. Robert Tamble, City / Airport Manager, Smithville Crawford Municipal Airport
- H. Sandy Meyerson, Operations Manager, Smithville Crawford Municipal Airport
- I. Chris Snapp, Airport Manager, Terrell Municipal Airport
- J. Jeremy Mungin, City Engineer, Terrell Municipal Airport
- K. C. Lecette Ferguson, FCI, Airfield Electrical Engineer
- L. Stephen Schwieterman, Lochner, Civil Project Manager
- M. Chris Whitfield, Lochner, Civil Engineer of Record

#### III. **Bidding Process**

- A. Receipt and Opening of Bids:
  - i. Proposals will be received until 2:00 pm CST on Wednesday, May 21st, 2025:

Sealed Bids needs to be addressed and delivered to

Dawn Denson, TxDOT – Aviation, 6230 E. Stassney Lane, 2nd Floor, Austin, Texas 78744



Then publicly opened and read. Any bid received after closing time will be returned unopened.

- ii. Bidding documents may be examined at:
  H.W. Lochner, Inc., 12750 Merit Drive, Suite 570, Dallas, Texas 75251
- iii. Envelopes containing bids must be sealed and addressed as shown in the <u>Instructions To Bidders</u> of the Contract Documents / Specifications.
- iv. See Notice to Bidders and Instructions to Bidders section in the Contract Documents for bidding information.

### B. Contract Provisions and Proposal Form:

- i. The DBE goal for this project is 2% and the bidders shall electronically submit the DBE participation plan and appropriate commitment agreement forms to TxDOT Aviation eGrants electronic grant management system. Any questions regarding DBE please contact Dawn Denson, TxDOT Aviation, at 512.416.4526. In accordance with 49 CFR Part 26.53 the bidder must submit an acceptable DBE plan no later than 5 calendar days after bid opening.
- ii. Proposers shall provide a statement of qualifications with their proposal of past similar work, a financial statement, and a statement of plant and equipment proposed for use on the project. In lieu of the financial statement, Contractors may provide evidence that they are pre-qualified with TXDOT for similar work and are on the current TXDOT bidders list.
- iii. The Contractor and his/her Subcontractors will be required to provide certificates of insurance for at least the minimum amounts specified in the Special Provisions.
- iv. Bidder shall reference the Aviation Division General Construction Contract Provisions. http://txdot.gov/inside-txdot/division/aviation/generalprovisions.html
- v. The bidder shall submit the completed bid either on the form furnished by TxDOT or by submitting an electronically printed version. All blank spaces in the TxDOT bid form must be correctly filled in where indicated for each and every item for which quantity is given. The bidder shall state the price both in words and numerals for each pay item furnished in the bid.
- vi. A Bid Bond guarantee will be required with each bid as a certified check or a bid bond in the amount of two (2) percent of the total amount of the bid, made payable to the TxDOT Aviation.



### C. Scope of Work:

i. The project consists of:

### → Jackson County Airport (26R) – 35 Calendar Days

- o Medium Intensity Runway Light replacement
- Runway Threshold End Identifier Light replacement
- o Guidance signage replacement
- o JCP & duct bank replacement with junction can plaza method
- o Electrical vault equipment replacement and vault clean up
- New PAPI 2-box system
- Repaint wind cone segmented circle
- o Existing beacon and beacon pole replacement

### ✤ Roger M. Dreyer Memorial Airport (T20) – 42 Calendar Days

- Runway Threshold End Identifier Light replacement 0
- Medium Intensity Runway Light replacement
- o Guidance signage replacement
- o JCP & duct bank replacement with junction can plaza method
- Electrical vault and vault equipment replacement
- New Runway 15 PAPI 2-box system
- o Wind cone replacement and repaint segmented circle
- o Existing beacon pole replacement

### → Palacios Municipal Airport (PSX) – 42 Calendar Days

- Runway 13-31 Threshold End Identifier Light replacement 0
- Medium Intensity Runway 13-31 Light replacement
- o Guidance signage replacement
- o JCP & duct bank replacement with junction can plaza method
- o Electrical vault equipment replacement and vault clean up
- Wind cone replacement and repaint segmented circle
- o Existing beacon pole replacement
- o Runway 13-31 Pavement Markings

### + Aransas County Airport (RKP) – 61 Calendar Days

- Medium Intensity Runway 14-32 & 18-36 Light replacement
- o Taxiway Edge Lights replacement
- o Runway 14 Threshold End Identifier Light replacement
- o Guidance signage replacement
- JCP & duct bank replacement with junction can plaza
- o method
- o Electrical vault equipment replacement and vault clean up
- New Runway 14-32 & 18-36 PAPI 4-box system
- o Wind cone replacement and repaint segmented circle



• Existing beacon and beacon pole replacement

### → Smithville Crawford Municipal Airport (84R) – 35 Calendar Days

- o Medium Intensity Runway Light replacement
- o Runway Threshold End Identifier Light replacement
- o Guidance signage replacement
- o JCP & duct bank replacement with junction can plaza method
- o Electrical vault and vault equipment replacement
- o Existing wind cone replacement and repaint segmented circle
- o Existing beacon replacement

### ➔ Terrell Municipal Airport (TRL) – 42 Calendar Days

- o Medium Intensity Runway Light replacement
- o Runway Threshold End Identifier Light replacement
- o Guidance signage replacement
- o JCP & duct bank replacement with junction can plaza method
- o Electrical vault and vault equipment replacement
- o Existing wind cone replacement and repaint segmented circle
- ii. The construction time for this project is 452 calendar days.

#### IV. Site Access / Staging Area:

- A. Contractor's access roads, haul roads, and staging areas are shown:
  - i. Jackson County Airport (26R) ..... Sheet No.s CE1.2 CE1.3
  - ii. Roger M. Dreyer Memorial Airport (T20) ...... Sheet No.s CG2.2 CG2.3
  - iii. Palacios Municipal Airport (PSX) ...... Sheet No.s CP3.2 CP3.3
  - iv. Aransas County Airport (RKP) ...... Sheet No.s CR4.2 CR4.5
  - v. Smithville Crawford Municipal Airport (84R) ...... Sheet No.s CS5.2 CS5.3
  - vi. Terrell Municipal Airport(TRL) ...... Sheet No.s CT6.2 CT6.3

### V. 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 (or latest edition).
- B. TxDOT will provide Construction Observation throughout the project. The Contractor shall provide all testing as outlined in the Contract Documents / Specifications.

### VI. Questions:

- Q1: In the Pre-Bid it was stated that site investigation photos could be provided. Can you please provide those pictures?
- A1: Yes, linked below are those pictures. It should be noted, that these pictures are dated, and may not represent current conditions. Each contractor was encouraged to visit all airport sites at the pre-bid for current conditions. Weblink to pictures: <u>https://fciengr.egnyte.com/fl/kO3wwuNg2M</u>



- Q2: How do we set up site visits?
- A2: Lochner has provided point of contact for each airport. See attached.

Additional Questions may be sent to <u>SSchwieterman@hwlochner.com</u> as indicated in the Pre-Bid meeting.



12750 Merit Drive | Suite 570 · Dallas, TX 75251 OFFICE 214.373.7873 · hwlochner.com

Date: Tuesday, April 22, 2025 | 10:00 AM

Location: Lochner – Virtual Teams Meeting 12750 Merit Drive, Suite 570 Dallas, Texas 75251

Re: TxDOT Aviation Statewide Airport Electrical Construction Project Pre-Bid Meeting TxDOT CSJ No: 4222AVSAEA

(	CSJ No. 2413EDDNA	26R	Jackson County Airport
(	CSJ No. 2416GONZA	T20	Roger M. Dreyer Memorial Airport
(	CSJ No. 2413PALCS	PSX	Palacios Municipal Airport
(	CSJ No. 2416ROCKP	RKP	Aransas County Airport
(	CSJ No. 2414SMITH	84R	Smithville Crawford Municipal Airport
(	CSJ No. 2418TEREL	TRL	Terrell Municipal Airport

### Attendees:

Name	Company	Email
Ed Mayle	TxDOT	ed.mayle@txdot.gov
Eli Lopez	TxDOT	eli.lopez@txdot.gov
Dawn Denson	TxDOT	dawn.denson@txdot.gov
Lecette Ferguson	Ferguson Consulting, Inc.	lferguson@fci-engr.com
Chris Whitfield	H. W. Lochner, Inc.	cwhitfield@hwlochner.com
Stephen Schwieterman	H. W. Lochner, Inc.	sschwieterman@hwlochner.com
Ana Miranda	H. W. Lochner, Inc.	amiranda@hwlochner.com
Chris Snapp	Terrell Municipal Airport	csnapp@cityofterrell.org
Mike Geer	Aransas County Airport	mgeer@aransascounty.org
Robert Tamble	Smithville Crawford Municipal Airport	citymanager@ci.smithville.tx.us
Aamir Ahmed Mohammed	G. Bell Electric, Inc.	
Amos Edgett	The Levy Company, Inc.	
Brian Mosser		
	F and W Electrical Contractors, Inc.	
Jackie Lerma	Royal Electric Company	
Rebecca Fletcher	Fletcher-Hann Electric Co., Inc.	
William Calame	The Levy Company, Inc.	
+12******00		
+18*****30		
+19*****07		

## AVIATION STATEWIDE AIRPORT ELECTRICAL CONTRACT (AVSAE)

### **GROUP ALPHA**





APRIL 22, 2025 | 10:00 a.m.

# AGENDA



**01**. Key Personnel

**02.** Bidding Process

## **03.** Airport Project Information

26R Jackson County Airport T20 Roger M. Dreyer Memorial Airport PSX Palacios Municipal Airport RKP Aransas County Airport 84R Smithville Crawford Municipal Airport TRL Terrell Municipal Airport

**04.** Questions



### **IDENTIFY KEY PERSONNEL**

**26R Jackson County** T20 Roger M. Dreyer **PSX Palacios Municipal PSX Palacios Municipal RKP** Aransas County 84R Smithville Crawford 84 R Smithville Crawford **TRL Terrell Municipal TRL Terrell Municipal** 

**Rick McClure Ralph Camarillo** Tammy McDonald Manuel Guevara Mike Geer **Robert Tamble** Sandy Meyerson **Chris Snapp** Jeremy Mungin

Airport Manager Airport Manager **City Representative Airport Manager** Airport Manager City / Airport Manager **Operations Manager Airport Manager City Engineer** 



ТХДОТ	Ed Mayle	Project Manager
ТХДОТ	Dawn Denson	Contract Administration Manage
FCI	Cole Ferguson	Airfield Electrical Engineer
FCI	Grant Ward	Technology Team Manager
LOCHNER	Stephen Schwieterman	Project Manager



- A. Receipt and Opening of Bids:
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    2:00 pm CST on Wednesday, May 21st, 2025:
  - Sealed Bids needs to be addressed and delivered to Dawn Denson, TxDOT – Aviation, 6230 E. Stassney Lane, 2<sup>nd</sup> Floor, Austin, Texas 78744.
  - Then publicly opened and read. Any bid received after closing time will be returned unopened.
  - Bidding documents may be examined at: H.W. Lochner, Inc., 12750 Merit Drive, Suite 570, Dallas, Texas 75251



### A. Receipt and Opening of Bids:

- Envelopes containing bids must be sealed and addressed as Shown in the Instructions To Bidders of the Contract Documents / Specifications.
- See Notice to Bidders and Instructions to Bidders section in the Contract Documents for bidding information.



### **B. Contract Provisions and Proposal Form:**

- The DBE goal for this project is 2% and the bidders shall electronically submit the DBE participation plan and appropriate commitment agreement forms to TxDOT Aviation eGrants electronic grant management system. Any questions regarding DBE please contact Dawn Denson, TxDOT Aviation, at 512.416.4526.
- In accordance with 49 CFR Part 26.53 the bidder must submit an acceptable DBE plan <u>no later than 5 calendar days</u> after bid opening.
- Qualified Proposers shall provide Statement of Qualifications.
- Provide Certificates of Insurance.



### **B. Contract Provisions and Proposal Form:**

- Reference the Aviation Division General Construction Contract Provisions.
- Submit Completed Bid Form.
- Bid Bond.



# **SAFETY AND PHASING PLAN**

- Contractor will be required to be in compliance with FAA Advisory Circular 150/5370-2G, Operational Safety on Airports during Construction (or latest edition).
- TxDOT will provide Construction Observation throughout the project. The Contractor shall provide all testing as outlined in the Contract Documents / Specifications.



## **AIRPORT PROJECT INFORMATION**

### This project consists of:

- 26R Jackson County Airport
- T20 Roger M. Dreyer Memorial Airport
- **PSX** Palacios Municipal Airport
- **RKP** Aransas County Airport
- 84R Smithville Crawford Municipal Airport
- TRL Terrell Municipal Airport

### **Project general items:**

- Airfield Electrical Circuit
- Runway & Taxiway Edge Lights
- PAPI and REIL Lights
- Vault and Vault Equipment
- Beacon and Tip Down Pole
- Wind Cone and Segmented Circle

- Wind Cone and Segmented Circle
- Guidance Signage
- Foundation and Manhole
- Pavement Markings



## **26R** JACKSON COUNTY AIRPORT

- Medium Intensity Runway Light replacement
- Runway Threshold End Identifier Light replacement
- Guidance signage replacement
- JCP & duct bank replacement with junction can plaza method















- Runway Threshold End Identifier Light replacement
- Medium Intensity Runway Light replacement
- Guidance signage replacement
- JCP & duct bank replacement with junction can plaza method

- Electrical vault and vault equipment replacement
- New Runway 15 PAPI 2-box system
- Wind cone replacement and repaint segmented circle
- Existing beacon pole replacement















- Runway 13-31 Threshold End Identifier Light replacement
- Medium Intensity Runway 13-31 Light replacement
- Guidance signage replacement
- JCP & duct bank replacement with junction can plaza method

- Electrical vault equipment replacement and vault clean up
- Wind cone replacement and repaint segmented circle
- Existing beacon pole replacement
- Runway 13-31 Pavement Markings















- Medium Intensity Runway 14-32 & 18-36 Light replacement
- Taxiway Edge Lights replacement
- Runway 14 Threshold End Identifier Light replacement
- Guidance signage replacement
- JCP & duct bank replacement with junction can plaza method
- Electrical vault equipment replacement and vault clean up
- New Runway 14-32 & 18-36 PAPI 4-box system
- Wind cone replacement and repaint segmented circle
- Existing beacon and beacon pole replacement













- Medium Intensity Runway Light replacement
- Runway Threshold End Identifier Light replacement
- Guidance signage replacement

- JCP & duct bank replacement with junction can plaza method
- · Electrical vault and vault equipment replacement
- Existing wind cone replacement and repaint segmented circle
- Existing beacon replacement















- Medium Intensity Runway Light replacement
- Runway Threshold End Identifier Light replacement
- Guidance signage replacement

- JCP & duct bank replacement with junction can plaza method
- Electrical vault and vault equipment replacement
- Existing wind cone replacement and repaint segmented circle














## QUESTIONS

- Technical questions shall be directed to Stephen Schwieterman <u>SSchwieterman@HWLochner.com</u> or 214.492.3621.
- Questions concerning bid documents shall be directed to Dawn Denson, TxDOT Aviation at 512.416.4526.



#### AVIATION STATEWIDE AIRPORT ELECTRICAL CONTRACT (AVSAE)

GROUP ALPHA CSJ. NO 4222AVSAEA CSJ NO. 2413EDDNA CSJ NO. 2416GONZA CSJ NO. 2413PALCS CSJ NO. 2416ROCKP CSJ NO. 2414SMITH CSJ NO. 2418TEREL

NAME	COMPANY	EMAIL	Phone
Cindy Raleigh	Palacios Municipal Airport / City Manager	tmcdonald@cityofpalacios.org	361-972-3605
Chris Snapp	Terrell Municipal Airport / Airport Manager	csnapp@cityofterrell.org	972.551.6600 ext. 2137
Robert Tamble	Smithville Crawford Municipal Airport	CityManager@ci.smithville.tx.us	(512) 237-3282
Sandy Meyerson	Smithville Crawford Municipal Airport	sandy.airport84r@gmail.com	979-224-6304
Rick McClure	Jackson County Airport / Edna Airport Manager	ramcclure@aep.com	361-652-4163
Mike Geer	Aransas County Airport / Rockport Airport Manager	mgeer@aransascounty.org	817-480-8861
Ralph Camarillo	Roger M Dreyer Memorial Airport / Gonzales	RCamarillo@gonzales.texas.gov	830-263-2145



IAME: 26R EE2.1.dwg C:\pw\_working\lochner-pw-01\

FILE NAME 20616 26R

# **GENERAL NOTES**

- 1. ALL ITEMS SHOWN IN HEAVY LINEWEIGHT ARE NEW OR MODIFIED, ALL ITEMS SHADED ARE EXISTING TO REMAIN. REFER TO SHEET E1.1 FOR ELECTRICAL SYMBOL LEGEND.
- 2. THE CONTRACTOR SHALL PROVIDE LOCK-OUT PROCEDURES PER NEC TO INSURE SAFETY OF PERSONNEL. REFER TO SECTION L-104
- 3. REFER TO EE1 SERIES FOR EXISTING AIRFIELD ELECTRICAL PLANS.
- 4. REFER TO EE6 SERIES FOR AIRFIELD LIGHTING AND SIGNAGE SCHEDULES.
- 5. KEYED NOTES ARE TYPICAL FOR ALL SHEETS OF THIS SERIES (EE2 SERIES). ALL LISTED KEYED NOTES FOR A PARTICULAR SHEET MAY NOT APPLY AND THEREFORE THE KEYED NOTE IDENTIFIER WILL NOT BE SHOWN ON THE PLAN PORTION OF THE SHEET.
- 6. EXISTING AIRFIELD CIRCUITS AND DUCT CROSSINGS HAVE BEEN TAKEN FROM AS-BUILT DOCUMENTATION. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL EXISTING CIRCUIT ROUTES PRIOR TO WORK.

- EXISTING AIRFIELD LIGHTING VAULT TO BE MODIFIED. REFER TO EE4 SERIES FOR DETAILS.
- (2) INSTALL NEW LED BEACON AND TIP DOWN POLE ON NEW FOUNDATION. REFER TO SHEET E5.3 FOR DETAIL.
- (3) INSTALL NEW L-881(L) PAPI. REFER TO EE5 SERIES FOR DETAILS.
- (4) INSTALL NEW WIND CONE AND TIP DOWN POLE. EXISTING SEGMENTED CIRCLE TO BE REPAINTED. REFER TO SHEET E2.6 FOR DETAILS.
- (5) OPEN CUT EXISTING PAVEMENT TO INSTALL PROPOSED CONDUIT. RE: 2/ E2.7 FOR DETAIL.





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<b>Ferguson Consulting</b>	10200 Grogans Mill Rd. Ste. #420
Aviation Specialists for Electrical,	The Woodlands, TX 77380
Telecommunications and Security Systems	(281) 252-9232 Firm No. 6864
TXDOT ELECTRICAL STATEWIDE	JACKSON COUNTY AIRPORT-26R
IMPROVEMENTS - GROUP A	GANADO, TX 77962
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C. LECETTE F B. 81460 C. S.	ERGUSON 64.5/225
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- 1. ALL ITEMS SHOWN IN HEAVY LINEWEIGHT ARE NEW OR MODIFIED, ALL ITEMS SHADED ARE EXISTING TO REMAIN. REFER TO SHEET E1.1 FOR ELECTRICAL SYMBOL LEGEND.
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- (5) OPEN CUT EXISTING PAVEMENT TO INSTALL PROPOSED CONDUIT. RE: 2/ E2.7 FOR DETAIL.





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<b>Ferguson Consulting</b> Aviation Specialists for Electrical, Telecommunications and Security Systems Forgreen Consulting Inc.	10200 Grogans Mill Rd. Ste. #420 The Woodlands, TX 77380 (281) 252-9232 Firm No. 6864				
TXDOT ELECTRICAL STATEWIDE IMPROVEMENTS - GROUP A	JACKSON COUNTY AIRPORT-26R GANADO, TX 77962				
NO. DATE DE 1 05/02/25 ADD	SCRIPTION EN 2				
C. LECETTE FERGUSON B. 81460 G. S. S. T. E. C. F-6864. S.					
DATE OF ISSUE : 03/ REVIEWED BY : RC DRAWN BY : ALC DESIGNED BY : RC	PROJECT NO.:23062DATE OF ISSUE :03/07/25REVIEWED BY :RCFDRAWN BY :ALCDESIGNED BY :RCF				
AIRFIELD ELECTRICAL LAYOUT PLAN					
EE2	2.2				



- 1. ALL ITEMS SHOWN IN HEAVY LINEWEIGHT ARE NEW OR MODIFIED, ALL ITEMS SHADED ARE EXISTING TO REMAIN. REFER TO SHEET E1.1 FOR ELECTRICAL SYMBOL LEGEND.
- 2. THE CONTRACTOR SHALL PROVIDE LOCK-OUT PROCEDURES PER NEC TO INSURE SAFETY OF PERSONNEL. REFER TO SECTION L-104
- 3. REFER TO EE1 SERIES FOR EXISTING AIRFIELD ELECTRICAL PLANS.
- 4. REFER TO EE6 SERIES FOR AIRFIELD LIGHTING AND SIGNAGE SCHEDULES.
- 5. KEYED NOTES ARE TYPICAL FOR ALL SHEETS OF THIS SERIES (EE2 SERIES). ALL LISTED KEYED NOTES FOR A PARTICULAR SHEET MAY NOT APPLY AND THEREFORE THE KEYED NOTE IDENTIFIER WILL NOT BE SHOWN ON THE PLAN PORTION OF THE SHEET.
- 6. EXISTING AIRFIELD CIRCUITS AND DUCT CROSSINGS HAVE BEEN TAKEN FROM AS-BUILT DOCUMENTATION. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL EXISTING CIRCUIT ROUTES PRIOR TO WORK.

- 1 EXISTING AIRFIELD LIGHTING VAULT TO BE MODIFIED. REFER TO EE4 SERIES FOR DETAILS.
- (2) INSTALL NEW LED BEACON AND TIP DOWN POLE ON NEW FOUNDATION. REFER TO SHEET E5.3 FOR DETAIL.
- 3 INSTALL NEW L-881(L) PAPI. REFER TO EE5 SERIES FOR DETAILS.
- (4) INSTALL NEW WIND CONE AND TIP DOWN POLE. EXISTING SEGMENTED CIRCLE TO BE REPAINTED. REFER TO SHEET E2.6 FOR DETAILS.
- (5) OPEN CUT EXISTING PAVEMENT TO INSTALL PROPOSED CONDUIT. RE: 2/ E2.7 FOR DETAIL.





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Ferguson Consulting Aviation Specialists for Electrical, Telecommunications and Security Systems Forenson Consulting Inc	10200 Grogans Mill Rd. Ste. #420 The Woodlands, TX 77380 (281) 252-9232 Firm No. 6864
TXDOT ELECTRICAL STATEWIDE IMPROVEMENTS - GROUP A	JACKSON COUNTY AIRPORT-26R Ganado, TX 77962
NO. DATE DE 1 05/02/25 ADD 1 05/02/25 ADD 1 05/02/25 ADD 1 05/02/25 ADD 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0	ELD RICAL PLAN



# **GENERAL NOTES** 1. ALL ITEMS SHOWN IN HEAVY LINE

- 1. ALL ITEMS SHOWN IN HEAVY LINEWEIGHT ARE DEMOLISHED OR MODIFIED, ALL ITEMS SHADED ARE EXISTING TO REMAIN. REFER TO SHEET E1.1 FOR ELECTRICAL SYMBOL LEGEND.
- 2. REFER TO ES2 SERIES FOR PROPOSED AIRFIELD ELECTRICAL PLANS.
- 3. KEYED NOTES ARE TYPICAL FOR ALL SHEETS OF THIS SERIES (ES1 SERIES). ALL LISTED KEYED NOTES FOR A PARTICULAR SHEET MAY NOT APPLY AND THEREFORE THE KEYED NOTE IDENTIFIER WILL NOT BE SHOWN ON THE PLAN PORTION OF THE SHEET.
- 4. THE CONTRACTOR SHALL PROVIDE LOCK-OUT PROCEDURES PER NEC TO INSURE SAFETY OF PERSONNEL. REFER TO SECTION L-104.
- 5. EXISTING AIRFIELD CIRCUITS AND DUCT CROSSINGS HAVE BEEN TAKEN FROM AS-BUILT DOCUMENTATION. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL EXISTING CIRCUIT ROUTES PRIOR TO WORK.
- 6. DIRECT BURIED CABLES NOTED MARKED FOR DEMOLITION ARE TO BE ABANDONED IN PLACE. ONLY REMOVE ABANDONED CIRCUITS WHERE EXPOSED BY PROPOSED TRENCHING OPERATIONS. REMOVAL IN THIS INSTANCE WILL BE INCIDENTAL TO THE LINE ITEM ASSOCIATED WITH THE TRENCHING OPERATIONS.

## KEYED NOTES

- 1 EXISTING AIRFIELD LIGHTING VAULT TO BE MODIFIED. REFER TO ES4 SERIES FOR DETAILS.
- 2 DEMOLISH EXISTING BEACON AND POLE ALONG WITH ALL ASSOCIATED EQUIPMENT INCLUDING FOUNDTION. REMOVE ASSOCIATED CONDUIT AND CONDUCTORS BACK TO SOURCE.
- 3 EXISTING WIND CONE AND ALL ASSOCIATED EQUIPMENT INCLUDING FOUNDATION TO BE DEMOLISHED, SEGMENTED CIRCLE TO REMAIN. REMOVE ASSOCIATED CONDUIT AND CONDUCTORS BACK TO SOURCE.
  - CONTRACTOR TO DEMOLISH EXISTING PAPI LIGHT UNITS ALONG WITH ALL ASSOCIATED EQUIPMENT AND FOUNDATIONS. REMOVE ASSOCIATED CONDUIT AND CONDUCTORS BACK TO SOURCE.
  - REMOVE EXISTING STAKE MOUNTED EDGE LIGHT, ISOLATION TRANSFORMER, AND ASSOCIATED BROOKS BOX.
  - EXISTING UNDERGROUND DUCT BANK OR CONDUIT BENEATH PAVEMENT TO BE ABANDONED IN PLACE.

	<ul> <li>Standy - Standard Market (2010)</li> <li>Standard Market (2010)</li> <li>Standard</li></ul>	



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<b>Ferguson Consulting</b> Aviation Specialists for Electrical, Telecommunications and Security Systems	Ferguson Consulting Inc. 10200 Grogans Mill Rd. Ste. #420 The Woodlands, TX 77380 (281) 252-9232 Firm No. 6864
TXDOT ELECTRICAL STATEWIDE IMPROVEMENTS - GROUP A	SMITHVILLE CRAWFORD MUNI (84R) 765 N W LOOP 230 SMITHVILLE, TEXAS
NO.         DATE           1         05/02/25         A           -         -         -           -         -         -           -         -         -           -         -         -           -         -         -           -         -         -           -         -         -           -         -         -           -         -         -	DESCRIPTION DDEN 2
PROJECT NO. : DATE OF ISSUE : REVIEWED BY : DRAWN BY : DESIGNED BY : AIRI LIGH DEMC PL	FERGUSON FERGUSON 460 21E 23062 03/07/2025 RCF ALC RCF FIELD ITING DLITON AN

ES1.1



#### **GENERAL NOTES** Consulti ; \* <u>o</u> o 1. ALL ITEMS SHOWN IN HEAVY LINEWEIGHT ARE DEMOLISHED OR MODIFIED, ALL ITEMS SHADED ARE EXISTING TO REMAIN. REFER TO SHEET E1.1 FOR Rd. TX ELECTRICAL SYMBOL LEGEND. son 2. REFER TO ES2 SERIES FOR PROPOSED AIRFIELD ELECTRICAL PLANS. 9**rgu** Aviat 3. KEYED NOTES ARE TYPICAL FOR ALL SHEETS OF THIS SERIES (ES1 SERIES). ALL LISTED KEYED NOTES FOR A PARTICULAR SHEET MAY NOT APPLY AND THEREFORE THE KEYED NOTE IDENTIFIER WILL NOT BE SHOWN ON THE PLAN PORTION OF THE SHEET. 4. THE CONTRACTOR SHALL PROVIDE LOCK-OUT PROCEDURES PER NEC TO INSURE SAFETY OF PERSONNEL. REFER TO SECTION L-104. 5. EXISTING AIRFIELD CIRCUITS AND DUCT CROSSINGS HAVE BEEN TAKEN FROM AS-BUILT DOCUMENTATION. IT IS THE CONTRACTOR'S **RESPONSIBILITY TO VERIFY ALL EXISTING CIRCUIT** ROUTES PRIOR TO WORK. DIRECT BURIED CABLES NOTED MARKED FOR 6. DEMOLITION ARE TO BE ABANDONED IN PLACE. Ш ONLY REMOVE ABANDONED CIRCUITS WHERE DUP A (84R) EXPOSED BY PROPOSED TRENCHING OPERATIONS. REMOVAL IN THIS INSTANCE WILL BE INCIDENTAL TO THE LINE ITEM ASSOCIATED WITH THE TRENCHING OPERATIONS. CRAWFORD MUNI LOOP 230 SMITHVILLE, TEXAS RO A **KEYED NOTES** ບ ບ EXISTING AIRFIELD LIGHTING VAULT TO BE AL S -MODIFIED. REFER TO ES4 SERIES FOR DETAILS. CTRIC/ (2) **F** DEMOLISH EXISTING BEACON AND POLE ALONG WITH ALL ASSOCIATED EQUIPMENT INCLUDING FOUNDTION. REMOVE ASSOCIATED CONDUIT AND CONDUCTORS BACK TO SOURCE. $\mathbf{O}$ LE( (3) EXISTING WIND CONE AND ALL ASSOCIATED EQUIPMENT INCLUDING FOUNDATION TO BE ШÓ DEMOLISHED, SEGMENTED CIRCLE TO REMAIN. REMOVE ASSOCIATED CONDUIT AND CONDUCTORS μΨ BACK TO SOURCE. ····· $N_{0}$ CONTRACTOR TO DEMOLISH EXISTING PAPI LIGHT UNITS ALONG WITH ALL ASSOCIATED EQUIPMENT AND FOUNDATIONS. REMOVE ASSOCIATED CONDUIT AND CONDUCTORS BACK TO SOURCE. REMOVE EXISTING STAKE MOUNTED EDGE LIGHT, ISOLATION TRANSFORMER, AND ASSOCIATED BROOKS BOX. NO. DATE DESCRIPTION EXISTING UNDERGROUND DUCT BANK OR CONDUIT 05/02/25 ADDEN 2 BENEATH PAVEMENT TO BE ABANDONED IN PLACE.



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REVIEWED BY : RCF DRAWN BY : ALC DESIGNED BY : RCF

23062

AIRFIELD LIGHTING DEMOLITON PLAN

**ES1.2** 

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**ES1.3** 



<b><u>G</u>E</b> 1.	ALL ITEMS SHOWN IN HEAVY LINEWEIGHT ARE DEMOLISHED OR MODIFIED, ALL ITEMS SHADED ARE EXISTING TO REMAIN. REFER TO SHEET E1.1 FOR		r Electrical, security Systems tting Tuc	Rd. Ste. #420 IX 77380 m No. 6864
2.	ELECTRICAL SYMBOL LEGEND. REFER TO ES2 SERIES FOR PROPOSED AIRFIELD		<b>om Co</b> Specialists fo ications and S	gans Mill I oodlands, ' -9232 Fir
3.	ELECTRICAL PLANS. KEYED NOTES ARE TYPICAL FOR ALL SHEETS OF THIS SERIES (ES1 SERIES). ALL LISTED KEYED NOTES FOR A PARTICULAR SHEET MAY NOT APPLY AND THEREFORE THE KEYED NOTE IDENTIFIER WILL NOT BE SHOWN ON THE PLAN PORTION OF THE SHEET.		<b>Fergus</b> Aviation Telecommun	10200 Gros The W( (281) 252
4.	THE CONTRACTOR SHALL PROVIDE LOCK-OUT PROCEDURES PER NEC TO INSURE SAFETY OF PERSONNEL. REFER TO SECTION L-104.			n n
5.	EXISTING AIRFIELD CIRCUITS AND DUCT CROSSINGS HAVE BEEN TAKEN FROM AS-BUILT DOCUMENTATION. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL EXISTING CIRCUIT ROUTES PRIOR TO WORK.	-		
6.	DIRECT BURIED CABLES NOTED MARKED FOR DEMOLITION ARE TO BE ABANDONED IN PLACE. ONLY REMOVE ABANDONED CIRCUITS WHERE EXPOSED BY PROPOSED TRENCHING OPERATIONS. REMOVAL IN THIS INSTANCE WILL BE INCIDENTAL TO THE LINE ITEM ASSOCIATED WITH THE TRENCHING OPERATIONS.		TEWIDE NUP A	NI (84R)
KE	YED NOTES		STA BRC	MUN Exas
1	EXISTING AIRFIELD LIGHTING VAULT TO BE MODIFIED. REFER TO ES4 SERIES FOR DETAILS.		NL 0.	
2	DEMOLISH EXISTING BEACON AND POLE ALONG WITH ALL ASSOCIATED EQUIPMENT INCLUDING FOUNDTION. REMOVE ASSOCIATED CONDUIT AND CONDUCTORS BACK TO SOURCE.		CTRIC/ MENTS	CRAWF( LOOP 230 SMITH
(3)	EXISTING WIND CONE AND ALL ASSOCIATED EQUIPMENT INCLUDING FOUNDATION TO BE DEMOLISHED, SEGMENTED CIRCLE TO REMAIN. REMOVE ASSOCIATED CONDUIT AND CONDUCTORS BACK TO SOURCE.		DT ELEC PROVEI	
4	CONTRACTOR TO DEMOLISH EXISTING PAPI LIGHT UNITS ALONG WITH ALL ASSOCIATED EQUIPMENT AND FOUNDATIONS. REMOVE ASSOCIATED CONDUIT AND CONDUCTORS BACK TO SOURCE.		TXD0 IMI	SMI
5	REMOVE EXISTING STAKE MOUNTED EDGE LIGHT, ISOLATION TRANSFORMER, AND ASSOCIATED BROOKS BOX.			
6	EXISTING UNDERGROUND DUCT BANK OR CONDUIT BENEATH PAVEMENT TO BE ABANDONED IN PLACE.		NO. DATE DE 1 05/02/25 ADD	SCRIPTION EN 2
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			C. LECETTE FE B: B1460	7. Total RGUSON
			F-686	405/02/25
		P	ROJECT NO. : 230 ATE OF ISSUE : 03/	62 07/2025
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	0 25 50 100		AIRFI LIGHI DEMOL PLA	ELD TING ITON N
N	ORTHHE HORIZ SCALE IN FEET		ES1	.4







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GE	ENERAL NOTES	<b>Su</b>	20
1.	ALL ITEMS SHOWN IN HEAVY LINEWEIGHT ARE NEW OR MODIFIED, ALL ITEMS SHADED ARE EXISTING TO REMAIN. REFER TO SHEET E1.1 FOR ELECTRICAL SYMBOL LEGEND.	<b>Consultin</b> sts for Electrical, and Security Syster	fill Rd. Ste. #4 ds, TX 77380 Firm No. 686
2.	THE CONTRACTOR SHALL PROVIDE LOCK-OUT PROCEDURES PER NEC TO INSURE SAFETY OF PERSONNEL. REFER TO SECTION L-104	Aviation Speciali	0 Grogans No 10 Grogans N 11) 252-9232
3.	REFER TO ES1 SERIES FOR EXISTING AIRFIELD ELECTRICAL PLANS.	Telec	1020
4.	REFER TO ES6 SERIES FOR AIRFIELD LIGHTING AND SIGNAGE SCHEDULES.		
5.	KEYED NOTES ARE TYPICAL FOR ALL SHEETS OF THIS SERIES (ES2 SERIES). ALL LISTED KEYED NOTES FOR A PARTICULAR SHEET MAY NOT APPLY AND THEREFORE THE KEYED NOTE IDENTIFIER WILL NOT BE SHOWN ON THE PLAN PORTION OF THE SHEET.		
6.	EXISTING AIRFIELD CIRCUITS AND DUCT CROSSINGS HAVE BEEN TAKEN FROM AS-BUILT DOCUMENTATION. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL EXISTING CIRCUIT ROUTES PRIOR TO WORK.	Ш	
7.	THE RUNWAY 17 & RUNWAY 35 PROPOSED REILS ARE ONLY TO BE INSTALLED IN THE EVENT ADD ALTERNATE 1 IS APPROVED.	EWID JP A	l (84R)
KE	YED NOTES	TAT ROI	MUN XAS
	AIRFIELD LIGHTING VAULT AND EQUIPMENT TO BE MODIFIED. REFER TO ES4 SERIES FOR DETAILS.	U.S.	NILLE, TE
	INSTALL NEW LED BEACON ON NEW TIP DOWN POLE INCLUDING FOUNDATION. REFER TO SHEET ES5.4 FOR DETAIL.	RICA	
3	INSTALL NEW L-881(L) PAPI. REFER TO ES5 SERIES 1 FOR DETAILS.		
	INSTALL NEW LED WIND CONE ON NEW TIP DOWN POLE INCLUDING FOUNDATIONS. REPAINT EXISTING SEGMENTED CIRCLE. REFER TO SHEET E2.6 FOR DETAILS.	DT ELE PROVI	
5	INSTALL NEW ISOLATION TRANSFORMER IN 1	ZDX	SMI
6	INSTALL NEW L-849E(L) REIL. REFER TO SHEET ES5.5 FOR DETAIL. SEE NOTE 7 IN GENERAL NOTES.		
7	OPEN CUT EXISTING PAVEMENT TO INSTALL PROPOSED CONDUIT. RE: 2/ E2.7 FOR DETAIL.		
		NO.         DATE         DE           1         05/02/25         ADD	ESCRIPTION EN 2
		C. LECETTE FI B. 81460 F. 6/ST. F-686	ERGUSON BERGUSON
			)62
	К. во разредности на на марки на на настра и со	DATE OF ISSUE : 03/ REVIEWED BY : RC DRAWN BY : AL	07/2025 F C
		DESIGNED BY : RC	F
		AIRFI LIGH1 LAYOU1	ELD FING F PLAN
Ν	ORTHONORTH	ES2	2.4

![](_page_51_Figure_0.jpeg)

	PROPOSED KW
' (4KW)	
9 RWY EDGE LTG @ 21.5W/EA)	0.84
TING (16 RWY THSLD LTG @ 17.9W	//EA) 0.29
	0.43
@ 3W/100LF)	0.57
35 @ 322W/SYSTEM)	.64
	2.78
DS NEC REQUIREMENTS	

	·			REMARKS:		
M	SURE	ACE				
	NEM	A 1	□ NEMA 3R			
СКТ	BKR.	KVA	LOAD D	DESCRIPTION	WIRE*	C"
2	15	0.21	LIGHTING AN	ND RECEPTICLES		
4	15	.02	L-854 PILOT	RADIO CONTROLLER		2" C
6	00/0	0.13	RUNWAY 17	PAPI	2 #12	2" C
8	20/2	0.13			#12G	_
10	20/2	0.13	RUNWAY 35	PAPI	2 # 8	2" C
12	20/2	0.13			1 # 8G	_
14	20/1	0.14	BEACON PO	WER		2" C
16	15	0.06	WIND CONE			2" C
18			EMPTY			
20						
			5.08	KVA CONNECTED	LOAD	
			5.45	KVA DEMAND		
			22.63	AMPS DEMAND @	240V	
	AIC AIC CKT 2 4 6 8 10 12 14 16 18 20	AIC:         ⊠       SURF         ⊠       NEM/         CKT       BKR.         2       15         4       15         6       20/2         10       20/2         14       20/1         16       15         18       20	AIC:         ⊠       SURFACE         ⊠       NEMA 1         CKT       BKR.       KVA         2       15       0.21         4       15       .02         6       20/2       0.13         10       20/2       0.13         10       20/2       0.13         12       0.13       0.13         14       20/1       0.14         16       15       0.06         18       20       0.13	AIC:         ■ SURFACE       FLUSH         ■ NEMA 1       NEMA 3R         CKT       BKR.       KVA         2       15       0.21       LIGHTING AN         4       15       .02       L-854 PILOT         6       20/2       0.13       RUNWAY 17         8       20/2       0.13       RUNWAY 35         10       20/2       0.13       RUNWAY 35         12       0.13       RUNWAY 35         14       20/1       0.14       BEACON PO         16       15       0.06       WIND CONE         18       EMPTY       5.08         5.45       22.63       5.45	AIC:       REMARKS:         X       SURFACE       FLUSH         X       NEMA 1       NEMA 3R         CKT       BKR.       KVA       LOAD DESCRIPTION         2       15       0.21       LIGHTING AND RECEPTICLES         4       15       .02       L-854 PILOT RADIO CONTROLLER         6       20/2       0.13       RUNWAY 17 PAPI         8       20/2       0.13       RUNWAY 35 PAPI         10       20/2       0.13       RUNWAY 35 PAPI         12       0.13       RUNWAY 35 PAPI         14       20/1       0.14       BEACON POWER         16       15       0.06       WIND CONE         18	AIC:       REMARKS:            X         SURFACE           FLUSH           2             X         NEMA         1           NEMA         3R           2             CKT         BKR.         KVA         LOAD DESCRIPTION           WIRE*           2             2         15         0.21         LIGHTING AND RECEPTICLES           U           WIRE*             2         15         0.21         LIGHTING AND RECEPTICLES           4           15         0.2         L-854 PILOT RADIO CONTROLLER           2         4             6         20/2         0.13         RUNWAY         17 PAPI           2         4         12G             10         20/2         0.13         RUNWAY         35 PAPI         2         2         0.13         4         1         8G           1         4         8G             12         10         20/1         0.14         BEACON POWER           1         4         1         4

	S	MITHV	ILLE CRAV		NICIPLE -	- EDGE L	IGHT FIXTU	JRES (RE1	)	
FIXTURE NUMBER	FAA TYPE	FAA BASE	LIGHT ORIENTATION	COLOR	NORTHING	EASTING	REGULATOR ID	CIRCUIT NAME		KEYNOTES
R1	L-861E(L)	L-867	BIDIRECTIONAL	GREEN-RED	9990229.7192	3298110.4040	RE1	RE1		
R2	L-861E(L)	L-867	BIDIRECTIONAL	GREEN-RED	9990231.4068	3298120.2605	RE1	RE1		
R3	L-861E(L)	L-867	BIDIRECTIONAL	GREEN-RED	9990233.0944	3298130.1171	RE1	RE1		
R4	L-861E(L)	L-867	BIDIRECTIONAL	GREEN-RED	9990234.7820	3298139.9737	RE1	RE1	(1)	
R5	L-861E(L)	L-867	BIDIRECTIONAL	GREEN-RED	9990240.7110	3298174.6030	RE1	RE1	$\bigcirc$	
R6	L-861E(L)	L-867	BIDIRECTIONAL	GREEN-RED	9990242.3986	3298184.4596	RE1	RE1	$\bigcirc$	
R7	L-861E(L)	L-867	BIDIRECTIONAL	GREEN-RED	9990244.0862	3298194.3162	RE1	RE1	$\left( \begin{array}{c} 1 \end{array} \right)$	
R8	L-861E(L)	L-867	BIDIRECTIONAL	GREEN-RED	9990245.7738	3298204.1727	RE1	RE1	(1)	
R9	L-861(L)	L-867	BIDIRECTIONAL	AMBER-CLEAR	9990057.0524	3298236.5204	RE1	RE1	(1)	
R10	L-861(L)	L-867	BIDIRECTIONAL	AMBER-CLEAR	9989868.3309	3298268.8681	RE1	RE1	(1)	
R11	L-861(L)	L-867	BIDIRECTIONAL	AMBER-CLEAR	9989679.6095	3298301.2157	RE1	RE1	(1)	
R12	L-861(L)	L-867	BIDIRECTIONAL	AMBER-CLEAR	9989302.1666	3298365.9110	RE1	RE1	(1)	
R13	L-861(L)	L-867	BIDIRECTIONAL	AMBER-CLEAR	9989113.4451	3298398.2587	RE1	RE1	(1)	
R14	L-861(L)	L-867	BIDIRECTIONAL	AMBER-CLEAR	9988924.7237	3298430.6063	RE1	RE1	(1)	
R15	L-861(L)	L-867	BIDIRECTIONAL	AMBER-CLEAR	9988736.0022	3298462.9540	RE1	RE1	$\underline{()}$	
R16	L-861(L)	L-867	BIDIRECTIONAL	AMBER-CLEAR	9988547.2808	3298495.3016	RE1	RE1		
R17	L-861(L)	L-867	BIDIRECTIONAL	AMBER-CLEAR	9988358.5594	3298527.6493	RE1	RE1	$\underbrace{1}{2}$	
R18	L-861(L)	L-867	BIDIRECTIONAL	CLEAR-AMBER	9988169.8379	3298559.9970	RE1	RE1	$\bigcirc$	
R19	L-861(L)	L-867	BIDIRECTIONAL	CLEAR-AMBER	9987981.1165	3298592.3446	RE1	RE1	$\bigcirc$	
R20	L-861(L)	L-867	BIDIRECTIONAL	CLEAR-AMBER	9987792.3950	3298624.6923	RE1	RE1		
R21	L-861(L)	L-007	BIDIRECTIONAL		9967003.0730	3290007.0399	RE1			
R22	L-861(L)	L-007	BIDIRECTIONAL		0087226 2307	3290009.3070	RE1			
R24	L-861(L)	1-867	BIDIRECTIONAL	CLEAR-AMBER	9987037 5092	3298754 0829	RE1	RE1	$\square$	
R25	L-801(L)	L-867	BIDIRECTIONAL	CLEAR-AMBER	9986848 7878	3298786 4306	RE1	RE1	$\left  \begin{array}{c} \\ \\ \\ \end{array} \right $	
R26	L-001(L)	L-867	BIDIRECTIONAL	CLEAR-AMBER	9986660.0663	3298818,7782	RE1	RE1	$\overline{\mathbf{h}}$	
R27	L-861(L)	L-867	BIDIRECTIONAL	CLEAR-AMBER	9986471.3449	3298851.1259	RE1	RE1	$\overbrace{1}^{(1)}$	
R28	L-861E(L)	L-867	BIDIRECTIONAL	GREEN-RED	9986282.6234	3298883.4735	RE1	RE1	$\overbrace{1}$	
R29	L-861E(L)	L-867	BIDIRECTIONAL	GREEN-RED	9986280.9359	3298873.6169	RE1	RE1	$\overbrace{1}$	
R30	L-861E(L)	L-867	BIDIRECTIONAL	GREEN-RED	9986279.2483	3298863.7604	RE1	RE1	(1)	
R31	L-861E(L)	L-867	BIDIRECTIONAL	GREEN-RED	9986277.5607	3298853.9038	RE1	RE1	$\overline{1}$	
R32	L-861E(L)	L-867	BIDIRECTIONAL	GREEN-RED	9986271.6665	3298819.4780	RE1	RE1		
R33	L-861E(L)	L-867	BIDIRECTIONAL	GREEN-RED	9986269.9789	3298809.6214	RE1	RE1		
R34	L-861E(L)	L-867	BIDIRECTIONAL	GREEN-RED	9986268.2913	3298799.7648	RE1	RE1		
R35	L-861E(L)	L-867	BIDIRECTIONAL	GREEN-RED	9986266.6037	3298789.9083	RE1	RE1	(1)	
R36	L-861(L)	L-867	BIDIRECTIONAL	CLEAR-AMBER	9986455.3235	3298757.5509	RE1	RE1		
R37	L-861(L)	L-867	BIDIRECTIONAL	CLEAR-AMBER	9986644.0433	3298725.1936	RE1	RE1	(1)	
R38	L-861(L)	L-867	BIDIRECTIONAL	CLEAR-AMBER	9986832.7631	3298692.8362	RE1	RE1	(1)	
R39	L-861(L)	L-867	BIDIRECTIONAL	CLEAR-AMBER	9987021.4829	3298660.4789	RE1	RE1	$\underline{(1)}$	
R40	L-861(L)	L-867	BIDIRECTIONAL	CLEAR-AMBER	9987210.2027	3298628.1215	RE1	RE1	(1)	
R41	L-861(L)	L-867	BIDIRECTIONAL	CLEAR-AMBER	9987398.9224	3298595.7642	RE1	RE1		
R42	L-861(L)	L-867	BIDIRECTIONAL	CLEAR-AMBER	9987587.6422	3298563.4068	RE1	RE1		
R43	L-861(L)	L-867	BIDIRECTIONAL	CLEAR-AMBER	9987776.3620	3298531.0495	RE1	RE1		
R44	L-861(L)	L-867	BIDIRECTIONAL	CLEAR-AMBER	9987965.0818	3298498.6921	RE1	RE1		
R45	L-861(L)	L-867	BIDIRECTIONAL	CLEAR-AMBER	9988153.8016	3298466.3348	RE1	RE1		
R46	L-861(L)	L-867		AMBER-CLEAR	9988342.5214	3298433.9774	KE1	KE1		
R4/	L-861(L)				9988531.2412	3298401.6201		KE1		
R40	L-861(L)	L-00/			99001 19.9010	3208326 0054				
R50	L-861(L)	L-007	BIDIRECTIONAL		9900900.0007	3208301 5401			K	
R51	L-861(L)	L-007	BIDIRECTIONAL		9909097.4000 9080286 1202	3200004.0401			K	
R52	L-801(L)	1_867	BIDIRECTIONAL		9989474 8/01	3298230 8334	RF1	RE1	$\left \frac{1}{2}\right $	
R53		_867			9989663 5500	3298207 4760	RF1	RF1	$\mathbb{A}$	
R54	L-00 I(L)	L-867	BIDIRECTIONAL	AMBER-CI FAR	9989852 2797	3298175 1187	RF1	RF1	K	
R55		L-867	BIDIRECTIONAL	AMBER-CLEAR	9990040.9995	3298142.7613	RE1	RE1	K	
	L-001(L)						I •		$\sim$	

JCP TAG	SHEET NUMBER	NORTHING	EASTING	DUCTS	JCP DETAIL REFERENCE (DETAIL # / SHEET #)	NOTES
JCP-1	ES2.1	9989462.5047	3298801.5646	6	2/E2.4	
JCP-2	ES2.1	9989450.0297	3298710.6978	6	2/E2.4	
JCP-3	ES2.1	9989395.6444	3298393.0531	6	2/E2.4	
JCP-4	ES2.1	9989498.6477	3298375.4180	4	1/E2.4	
JCP-5	ES2.1	9990183.6804	3298258.1351	2	9/E2.3	
JCP-6	ES2.1	9990262.5330	3298244.6349	2	9/E2.3	
JCP-7	ES2.4	9986359.1948	3298912.9167	2	9/E2.3	
JCP-8	ES2.4	9986280.3481	3298926.4159	2	9/E2.3	
JCP-9	ES2.1	9989366.1116	3298220.5630	4	1/E2.4	
JCP-10	ES2.2	9988897.4341	3298300.8041	2	9/E2.3	
JCP-11	ES2.2	9988409.5332	3298384.3366	2	9/E2.3	
JCP-12	ES2.3	9987921.6323	3298467.8690	2	9/E2.3	
JCP-13	ES2.3	9987433.7313	3298551.4014	2	9/E2.3	

\_\_\_\_\_

LIGHT FIXTURE ELECTRICAL INFORMATION:						
FIXTURE TYPE	FAA TYPE	LAMP WATTAGE	ISOLATION TRANSFORMER			
RUNWAY ELEVATED LED EDGE LIGHT	L-861(L)	12VA	L-830-16 (10/15W)			
RUNWAY ELEVATED LED THRESHOLD END LIGHT	L-861E(L)	12VA	L-830-16 (10/15W)			

#### **GENERAL NOTES - LIGHTING**

- 1. REFER TO ES2 SERIES FOR PROPOSED LIGHTING PLANS, THE ES3 SERIES FOR DIMENSIONS PLANS AND ES5 SERIES FOR DETAILS.
- 2. FIXTURES NORTHINGS AND EASTINGS HAVE BEEN PROVIDED FOR CONTRACTORS TO USE IN LOCATING NEW BASE CANS. HOWEVER THE CONTRACTOR MUST INSTALL ALL FIXTURES FOLLOWING THE DETAILS, WHERE NORTHINGS AND EASTINGS CONFLICT WITH DETAILS, THE CONTRACTOR SHALL CONTACT THE ENGINEER FOR GUIDANCE. TYPICALLY, THE DETTAILS SUPERSEDE NORTHINGS AND EASTINGS INFORMATION. IF MARKINGS ARE MODIFIED, THE NORTHINGS AND EASTINGS MAY NO LONGER BE ACCURATE.
- 3. DISPLAY LIGHT FIXTURE SCHEDULE PROVIDED BY ENGINEER INSIDE OF AIRFIELD LIGHTING VAULT ONCE PROJECT IS COMPLETE.

#### **KEYED NOTES - LIGHTING**

1 PROCURE AND INSTALL NEW ELEVATED FIXTURE (TYPE AS NOTED) ON NEW BASE CAN WITH NEW ISOLATION TRANSFORMER, CONNECTOR KIT, BOLTING HARDWARE, ETC FOR A COMPLETE ACCEPTED SYSTEM.

![](_page_52_Picture_11.jpeg)

![](_page_53_Figure_0.jpeg)

- 1. ALL ITEMS SHOWN IN HEAVY LINEWEIGHT ARE DEMOLISHED OR MODIFIED, ALL ITEMS SHADED ARE EXISTING TO REMAIN. REFER TO SHEET E1.1 FOR ELECTRICAL SYMBOL LEGEND.
- 2. REFER TO EP2 SERIES FOR PROPOSED AIRFIELD ELECTRICAL PLANS.
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- 4. THE CONTRACTOR SHALL PROVIDE LOCK-OUT PROCEDURES PER NEC TO INSURE SAFETY OF PERSONNEL. REFER TO SECTION L-104.
- 5. EXISTING AIRFIELD CIRCUITS AND DUCT CROSSINGS HAVE BEEN TAKEN FROM AS-BUILT DOCUMENTATION. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL EXISTING CIRCUIT ROUTES PRIOR TO WORK.

- 1 EXISTING AIRFIELD LIGHTING EQUIPMENT WITHIN CLOSET OF FBO BUILDING TO BE REMOVED IN ITS ENTIRETY. DISPOSE OF OR SALVAGE EXISTING EQUIPMENT AND TURN OVER TO OWNER PER DIRECTION FROM RPR.
- 2 DEMOLISH EXISTING BEACON AND BEACON POLE. CONTRACTOR TO REMOVE CONDUCTORS AND CONDUIT BACK TO AIRFIELD LIGHTING VAULT.
- (3) EXISTING WIND CONE AND ALL ASSOCIATED EQUIPMENT TO BE DEMOLISHED, SEGMENTED CIRCLE TO REMAIN. CONTRACTOR TO REMOVE CONDUCTORS AND CONDUIT BACK TO AIRFIELD LIGHTING VAULT.
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  - REMOVE EXISTING ELEVATED LIGHT, ISOLATION TRANSFORMER, AND ASSOCIATED CONCRETE ENCASED BASE CAN.

![](_page_53_Figure_15.jpeg)

![](_page_53_Picture_16.jpeg)

![](_page_53_Figure_17.jpeg)

![](_page_53_Figure_18.jpeg)

![](_page_54_Figure_0.jpeg)

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- 1 EXISTING AIRFIELD LIGHTING EQUIPMENT WITHIN CLOSET OF FBO BUILDING TO BE REMOVED IN ITS ENTIRETY. DISPOSE OF OR SALVAGE EXISTING EQUIPMENT AND TURN OVER TO OWNER PER DIRECTION FROM RPR.
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![](_page_54_Figure_15.jpeg)

![](_page_54_Picture_16.jpeg)

![](_page_54_Figure_17.jpeg)

<b>Perguson Consulting</b> Aviation Specialists for Electrical, Telecomunications and Security Systems	10200 Grogans Mill Rd. Ste. #420 The Woodlands, TX 77380 (281) 252-9232 Firm No. 6864			
TXDOT ELECTRICAL STATEWIDE IMPROVEMENTS - GROUP A	PALACIOS MUNICIPAL AIRPORT (PSX) 3 R. B. TRULL BLVD, PALACIOS, TX 77465			
NO.       DATE       DE         1       05/02/25       ADD         -       -       -       -         -       -       -       -         -       -       -       -         -       -       -       -         -       -       -       -         -       -       -       -         -       -       -       -         -       -       -       -         -       -       -       -         -       -       -       -         -       -       -       -         -       -       -       -         -       -       -       -         -       -       -       -         -       -       -       -         -       -       -       -       -         -       -       -       -       -         -       -       -       -       -         -       -       -       -       -         -       -       -       -       - <tr tr="">        -       -</tr>	ESCRIPTION EN 2			
PROJECT NO. : 23062 DATE OF ISSUE : 03/07/25 REVIEWED BY : RCF DRAWN BY : ALC DESIGNED BY : RCF				
C. LECETTE FERGUSON 81460 F-6864 F-				

EP1.2

![](_page_55_Figure_0.jpeg)

- 1. ALL ITEMS SHOWN IN HEAVY LINEWEIGHT ARE DEMOLISHED OR MODIFIED, ALL ITEMS SHADED ARE EXISTING TO REMAIN. REFER TO SHEET E1.1 FOR ELECTRICAL SYMBOL LEGEND.
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- 1 EXISTING AIRFIELD LIGHTING EQUIPMENT WITHIN CLOSET OF FBO BUILDING TO BE REMOVED IN ITS ENTIRETY. DISPOSE OF OR SALVAGE EXISTING EQUIPMENT AND TURN OVER TO OWNER PER DIRECTION FROM RPR.
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- REMOVE EXISTING ELEVATED LIGHT, ISOLATION TRANSFORMER, AND ASSOCIATED CONCRETE ENCASED BASE CAN.

![](_page_55_Figure_15.jpeg)

![](_page_55_Picture_16.jpeg)

![](_page_55_Figure_17.jpeg)

Ferguson Consulting Aviation Specialists for Electrical, Telecommunications and Security Systems	rerguson Consulting Inc. 10200 Grogans Mill Rd. Ste. #420 The Woodlands, TX 77380 (281) 252-9232 Firm No. 6864				
TXDOT ELECTRICAL STATEWIDE IMPROVEMENTS - GROUP A	PALACIOS MUNICIPAL AIRPORT (PSX) 3 R. B. TRULL BLVD, PALACIOS, TX 77465				
NO.     DATE     D       1     05/02/25     ADI	ESCRIPTION DEN 2				
PROJECT NO.:       23062         DATE OF ISSUE:       03/07/25         REVIEWED BY:       RCF					
DATE OF ISSUE : 03/07/25 REVIEWED BY : RCF DRAWN BY : ALC DESIGNED BY : RCF AIRFIELD LIGHTING DEMOLITION PLAN					

EP1.3

![](_page_56_Figure_0.jpeg)

- 1. ALL ITEMS SHOWN IN HEAVY LINEWEIGHT ARE DEMOLISHED OR MODIFIED, ALL ITEMS SHADED ARE EXISTING TO REMAIN. REFER TO SHEET E1.1 FOR ELECTRICAL SYMBOL LEGEND.
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![](_page_56_Figure_18.jpeg)

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Aviation Specialists for Electrical,	The Woodlands, TX 77380				
Telecommunications and Security Systems	(281) 252-9232 Firm No. 6864				
TXDOT ELECTRICAL STATEWIDE	PALACIOS MUNICIPAL AIRPORT (PSX)				
IMPROVEMENTS - GROUP A	3 R. B. TRULL BLVD, PALACIOS, TX 77465				
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1 05/02/25 ADD	EN 2				
PROJECT NO. : 230 DATE OF ISSUE : 03/ REVIEWED BY : RC DRAWN BY : ALC DESIGNED BY : RC AIRFI LIGHT DEMOL	PROJECT NO. : 23062 DATE OF ISSUE : 03/07/25 REVIEWED BY : RCF DRAWN BY : ALC DESIGNED BY : RCF <b>AIRFIELD</b> LIGHTING DEMOLITION PLAN				

**EP1.4** 

![](_page_57_Figure_0.jpeg)

- 1. ALL ITEMS SHOWN IN HEAVY LINEWEIGHT ARE DEMOLISHED OR MODIFIED, ALL ITEMS SHADED ARE EXISTING TO REMAIN. REFER TO SHEET E1.1 FOR ELECTRICAL SYMBOL LEGEND.
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![](_page_57_Figure_15.jpeg)

![](_page_57_Picture_16.jpeg)

![](_page_57_Figure_17.jpeg)

<b>Ferguson Consulting</b> Aviation Specialists for Electrical, Telecommunications and Security Systems	Ferguson Consulting Inc. 10200 Grogans Mill Rd. Ste. #420 The Woodlands, TX 77380 (281) 252-9232 Firm No. 6864	
TXDOT ELECTRICAL STATEWIDE IMPROVEMENTS - GROUP A	PALACIOS MUNICIPAL AIRPORT (PSX) 3 R. B. TRULL BLVD, PALACIOS, TX 77465	
NO.       DATE       D         1       05/02/25       ADI         -       -       -         -       -       -         -       -       -         -       -       -         -       -       -         -       -       -         -       -       -         -       -       -         -       -       -         -       -       -         -       -       -         -       -       -         -       -       -	ESCRIPTION DEN 2	
C. LECETTE FERGUSON B. 81460 C. STER F-6864.5/52/25		
PROJECT NO.: 23 DATE OF ISSUE: 03 REVIEWED BY: RO DRAWN BY: AI DESIGNED BY: RO AIRF LIGH	PROJECT NO. : 23062 DATE OF ISSUE : 03/07/25 REVIEWED BY : RCF DRAWN BY : ALC DESIGNED BY : RCF AIRFIELD LIGHTING	
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![](_page_58_Figure_0.jpeg)

- 1. ALL ITEMS SHOWN IN HEAVY LINEWEIGHT ARE DEMOLISHED OR MODIFIED, ALL ITEMS SHADED ARE EXISTING TO REMAIN. REFER TO SHEET E1.1 FOR ELECTRICAL SYMBOL LEGEND.
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TXDOT ELECTRICAL STATEWIDE IMPROVEMENTS - GROUP A	PALACIOS MUNICIPAL AIRPORT (PSX) 3 R. B. TRULL BLVD, PALACIOS, TX 77465
NO.       DATE       DE         1       05/02/25       ADD         -       -       -         -       -       -         -       -       -         -       -       -         -       -       -         -       -       -         -       -       -         -       -       -         -       -       -         -       -       -         -       -       -         -       -       -	EN 2
PROJECT NO. : 23062 DATE OF ISSUE : 03/07/25 REVIEWED BY : RCF DRAWN BY : ALC DESIGNED BY : RCF	
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![](_page_59_Figure_0.jpeg)

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- 2. THE CONTRACTOR SHALL PROVIDE LOCK-OUT PROCEDURES PER NEC TO INSURE SAFETY OF PERSONNEL. REFER TO SECTION L-104
- 3. REFER TO EP1 SERIES FOR EXISTING AIRFIELD ELECTRICAL PLANS.
- 4. REFER TO EP6 SERIES FOR AIRFIELD LIGHTING AND SIGNAGE SCHEDULES.
- 5. KEYED NOTES ARE TYPICAL FOR ALL SHEETS OF THIS SERIES (EP2 SERIES). ALL LISTED KEYED NOTES FOR A PARTICULAR SHEET MAY NOT APPLY AND THEREFORE THE KEYED NOTE IDENTIFIER WILL NOT BE SHOWN ON THE PLAN PORTION OF THE SHEET.
- 6. EXISTING AIRFIELD CIRCUITS AND DUCT CROSSINGS HAVE BEEN TAKEN FROM AS-BUILT DOCUMENTATION. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL EXISTING CIRCUIT ROUTES PRIOR TO WORK.

## **KEYED NOTES**

- 1 CONTRACTOR TO INSTALL NEW AIRFIELD LIGHTING VAULT AND EQUIPMENT. REFER TO EP4 SERIES FOR DETAILS.
- 2 INSTALL NEW LED BEACON ON NEW TIP DOWN POLE. REFER TO EP5.3 FOR DETAIL.
- 3 INSTALL NEW LED WIND CONE ON NEW TIP DOWN POLE. REPAINT EXISTING SEGMENTED CIRCLE. REFER TO SHEET E2.6 FOR DETAILS.
- 4 INSTALL NEW L-849E(L) REIL. REFER TO SHEET EP5.4 FOR DETAILS.
- 5 INSTALL NEW LIGHT FIXTURE ON NEW L-867B BASE CAN IN EXISTING RUNWAY PAVEMENT. REFER TO SHEET EP5.1 FOR DETAILS.
- 6 NEW SIGN TO BE INSTALLED IN EXISTING PAVEMENT. REFER TO SHEET EP5.2 FOR DETAIL.
- 7 CONTRACTOR TO CONNECT NEW ASOS POWER FEED CIRCUIT TO EXISTING EQUIPMENT.
- (8) INSTALL TWO SEPARATE SIGNS ON TWO SEPARATE FOUNDATIONS TO COMPLETE THE LEGEND. SIGN "A" WILL BE THE SIGN CLOSEST TO THE EDGE OF PAVEMENT AND SIGN "B" WILL BE SET BEHIND IT. RE: 2/ E2.2 FOR DETAIL.

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Aviation Specialists for Electrical,	The Woodlands, TX 77380
Telecommunications and Security Systems	(281) 252-9232 Firm No. 6864
TXDOT ELECTRICAL STATEWIDE	PALACIOS MUNICIPAL AIRPORT (PSX)
IMPROVEMENTS - GROUP A	3 R. B. TRULL BLVD, PALACIOS, TX 77465
NO. DATE DE 1 05/02/25 ADD 1	ELD RICAL

**EP2.1** 

![](_page_60_Figure_0.jpeg)

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- 2. THE CONTRACTOR SHALL PROVIDE LOCK-OUT PROCEDURES PER NEC TO INSURE SAFETY OF PERSONNEL. REFER TO SECTION L-104
- 3. REFER TO EP1 SERIES FOR EXISTING AIRFIELD ELECTRICAL PLANS.
- 4. REFER TO EP6 SERIES FOR AIRFIELD LIGHTING AND SIGNAGE SCHEDULES.
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## KEYED NOTES

- 1 CONTRACTOR TO INSTALL NEW AIRFIELD LIGHTING VAULT AND EQUIPMENT. REFER TO EP4 SERIES FOR DETAILS.
- 2 INSTALL NEW LED BEACON ON NEW TIP DOWN POLE. REFER TO EP5.3 FOR DETAIL.
- 3 INSTALL NEW LED WIND CONE ON NEW TIP DOWN POLE. REPAINT EXISTING SEGMENTED CIRCLE. REFER TO SHEET E2.6 FOR DETAILS.
- 4 INSTALL NEW L-849E(L) REIL. REFER TO SHEET EP5.4 FOR DETAILS.
- 5 INSTALL NEW LIGHT FIXTURE ON NEW L-867B BASE CAN IN EXISTING RUNWAY PAVEMENT. REFER TO SHEET EP5.1 FOR DETAILS.
- 6 NEW SIGN TO BE INSTALLED IN EXISTING PAVEMENT. REFER TO SHEET EP5.2 FOR DETAIL.
- 7 CONTRACTOR TO CONNECT NEW ASOS POWER FEED CIRCUIT TO EXISTING EQUIPMENT.
- 8) INSTALL TWO SEPARATE SIGNS ON TWO SEPARATE FOUNDATIONS TO COMPLETE THE LEGEND. SIGN "A" WILL BE THE SIGN CLOSEST TO THE EDGE OF PAVEMENT AND SIGN "B" WILL BE SET BEHIND IT. RE: 2/ E2.2 FOR DETAIL.

![](_page_60_Figure_17.jpeg)

![](_page_60_Picture_18.jpeg)

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<b>Perguson Consulting</b>	10200 Grogans Mill Rd. Ste. #420	
Aviation Specialists for Electrical,	The Woodlands, TX 77380	
Telecommunications and Security Systems	(281) 252-9232 Firm No. 6864	
TXDOT ELECTRICAL STATEWIDE	PALACIOS MUNICIPAL AIRPORT (PSX)	
IMPROVEMENTS - GROUP A	3 R. B. TRULL BLVD, PALACIOS, TX 77465	
NO.     DATE     DE       1     05/02/25     ADD       -     -     -       -     -     -       -     -     -       -     -     -       -     -     -       -     -     -       -     -     -       -     -     -       -     -     -       -     -     -       -     -     -       -     -     -	ESCRIPTION JEN 2	
C. LECETTE FERGUSON B. 81460 F-6864os/o2/25 PROJECT NO.: 23062		
DATE OF ISSUE : 03/	DATE OF ISSUE : 03/07/25	
REVIEWED BY : RC	REVIEWED BY : RCF	
DRAWN BY : AL	DRAWN BY : ALC	
DESIGNED BY : RC	DESIGNED BY : RCF	
AIRFI	IELD	
ELECT	RICAL	
LAYOU	F PLAN	

**EP2.3** 

![](_page_61_Figure_0.jpeg)

- 1. ALL ITEMS SHOWN IN HEAVY LINEWEIGHT ARE NEW OR MODIFIED, ALL ITEMS SHADED ARE EXISTING TO REMAIN. REFER TO SHEET E1.1 FOR ELECTRICAL SYMBOL LEGEND.
- 2. THE CONTRACTOR SHALL PROVIDE LOCK-OUT PROCEDURES PER NEC TO INSURE SAFETY OF PERSONNEL. REFER TO SECTION L-104
- 3. REFER TO EP1 SERIES FOR EXISTING AIRFIELD ELECTRICAL PLANS.
- 4. REFER TO EP6 SERIES FOR AIRFIELD LIGHTING AND SIGNAGE SCHEDULES.
- 5. KEYED NOTES ARE TYPICAL FOR ALL SHEETS OF THIS SERIES (EP2 SERIES). ALL LISTED KEYED NOTES FOR A PARTICULAR SHEET MAY NOT APPLY AND THEREFORE THE KEYED NOTE IDENTIFIER WILL NOT BE SHOWN ON THE PLAN PORTION OF THE SHEET.
- 6. EXISTING AIRFIELD CIRCUITS AND DUCT CROSSINGS HAVE BEEN TAKEN FROM AS-BUILT DOCUMENTATION. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL EXISTING CIRCUIT ROUTES PRIOR TO WORK.

- 1 CONTRACTOR TO INSTALL NEW AIRFIELD LIGHTING VAULT AND EQUIPMENT. REFER TO EP4 SERIES FOR DETAILS.
- 2 INSTALL NEW LED BEACON ON NEW TIP DOWN POLE. REFER TO EP5.3 FOR DETAIL.
- (3) INSTALL NEW LED WIND CONE ON NEW TIP DOWN POLE. REPAINT EXISTING SEGMENTED CIRCLE. REFER TO SHEET E2.6 FOR DETAILS.
- (4) INSTALL NEW L-849E(L) REIL. REFER TO SHEET EP5.4 FOR DETAILS.
- (5) INSTALL NEW LIGHT FIXTURE ON NEW L-867B BASE CAN IN EXISTING RUNWAY PAVEMENT. REFER TO SHEET EP5.1 FOR DETAILS.
- 6 NEW SIGN TO BE INSTALLED IN EXISTING PAVEMENT. REFER TO SHEET EP5.2 FOR DETAIL.
- 7 CONTRACTOR TO CONNECT NEW ASOS POWER FEED CIRCUIT TO EXISTING EQUIPMENT.
- (8) INSTALL TWO SEPARATE SIGNS ON TWO SEPARATE FOUNDATIONS TO COMPLETE THE LEGEND. SIGN "A" WILL BE THE SIGN CLOSEST TO THE EDGE OF PAVEMENT AND SIGN "B" WILL BE SET BEHIND IT. RE: 2/ E2.2 FOR DETAIL.

![](_page_61_Figure_17.jpeg)

![](_page_61_Picture_18.jpeg)

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<b>Ferguson Consulting</b> Aviation Specialists for Electrical, Telecommunications and Security Systems	10200 Grogans Mill Rd. Ste. #420 The Woodlands, TX 77380 (281) 252-9232 Firm No. 6864	
TXDOT ELECTRICAL STATEWIDE IMPROVEMENTS - GROUP A	PALACIOS MUNICIPAL AIRPORT (PSX) 3 R. B. TRULL BLVD, PALACIOS, TX 77465	
NO.     DATE     DE       1     05/02/25     ADD       -     -     -       -     -     -       -     -     -       -     -     -       -     -     -       -     -     -       -     -     -       -     -     -       -     -     -       -     -     -       -     -     -       -     -     -	ESCRIPTION EN 2	
PROJECT NO. : 23062 DATE OF ISSUE : 03/07/25 REVIEWED BY : RCF DRAWN BY : ALC DESIGNED BY : RCF		
DESIGNED BY: RCF AIRFIELD ELECTRICAL LAYOUT PLAN		

![](_page_62_Figure_0.jpeg)

- 1. ALL ITEMS SHOWN IN HEAVY LINEWEIGHT ARE NEW OR MODIFIED, ALL ITEMS SHADED ARE EXISTING TO REMAIN. REFER TO SHEET E1.1 FOR ELECTRICAL SYMBOL LEGEND.
- 2. THE CONTRACTOR SHALL PROVIDE LOCK-OUT PROCEDURES PER NEC TO INSURE SAFETY OF PERSONNEL. REFER TO SECTION L-104
- 3. REFER TO EP1 SERIES FOR EXISTING AIRFIELD ELECTRICAL PLANS.
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![](_page_62_Figure_17.jpeg)

![](_page_62_Picture_18.jpeg)

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			PRINT IN COLOR

<b>Ferguson Consulting</b> Aviation Specialists for Electrical, Telecommunications and Security Systems	10200 Grogans Mill Rd. Ste. #420 The Woodlands, TX 77380 (281) 252-9232 Firm No. 6864	
TXDOT ELECTRICAL STATEWIDE IMPROVEMENTS - GROUP A	PALACIOS MUNICIPAL AIRPORT (PSX) 3 R. B. TRULL BLVD, PALACIOS, TX 77465	
NO.     DATE     DE       1     05/02/25     ADD       -     -     -       -     -     -       -     -     -       -     -     -       -     -     -       -     -     -       -     -     -       -     -     -       -     -     -       -     -     -       -     -     -	ESCRIPTION EN 2	
PROJECT NO. : 23062 DATE OF ISSUE : 03/07/25 REVIEWED BY : RCF		
DRAWN BY : AL DESIGNED BY : RC AIRFI ELECTI LAYOUT	DATE OF ISSUE: 03/07/25 REVIEWED BY: RCF DRAWN BY: ALC DESIGNED BY: RCF AIRFIELD ELECTRICAL LAYOUT PLAN	

![](_page_63_Figure_0.jpeg)

![](_page_63_Figure_1.jpeg)

1. ALL ITEMS SHOWN IN HEAVY, SOLID LINEWEIGHT ARE NEW OR MODIFIED. 2. ALL CONDUIT BELOW 6' AFF TO BE RGS. ALL CONDUIT INSTALLED ABOVE 6' AFF

3. ALL WORK RELATING TO ELECTRICAL SERVICE TO BE COORDINATED WITH LOCAL UTILITY COMPANY.

#### **KEYED NOTES**

(1) FURNISH 10' X 12' X 8'-6" MIN VAULT STRUCTURE. PROVIDE STRUCTURE WITH UV RESISTANT FINISH CONSISTING OF HIGH GLOSS GEL-COAT OR 3-COATS OF EXTERIOR GRADE PAINT. STRUCTURE SHALL INCLUDE A 36"W X 7'H SOLID DOOR WITH KEY LOCK, WEATHER TRIM TO PREVENT INGRESS OF WATER, DUST OR OTHER FOREIGN PARTICLES. PROVIDE WITH MIN 250LB/SF FLOOR LOADING CAPACITY WITH COMMERCIAL GRADE VINYL TILE FINISH. PROVIDE SLOPED ROOF WITH 100LB/SF LOADING AND 220 FT-LB IMPACT RESISTANCE. ALL WALLS, FLOOR AND ROOF SHALL BE INSULATED. WALLS TO BE REINFORCED WITH 3/4" PLYWOOD FOR MOUNTING EQUIPMENT. ALL JOINTS SHALL BE AIR AND WATER-TIGHT. ALL HARDWARE SHALL BE STAINLESS STEEL. FURNISH COLOR SAMPLES FOR REVIEW. PRE-FABRICATED FIBERGLASS, PRE-CAST CONCRETE OR CONCRETE TILT-UP WALL CONSTRUCTION OR INSULATED METAL BUILDING ON SLAB IS AN APPROVED BUILDING TYPE, EURNISH VAULT WITH LIGHTS, RECEPTACLES, WALL SWITCH, 3-TON A/C WITH 5KW HEAT, THERMOMETER, AND ALL INCIDENTALS COMPLETE AND IN PLACE.

Forguson Const Aviation Specialists for Elect Telecommunications and Securit	Ferguson Consulting 10200 Grogans Mill Rd. St The Woodlands, TX 77 (281) 252-9232 Firm No
TXDOT ELECTRICAL STATEWIDE IMPROVEMENTS - GROUP A	PALACIOS MUNICIPAL AIRPORT (PSX) 3 R. B. TRULL BLVD, PALACIOS, TX 77465
NO.       DATE       D         1       05/02/25       ADI         1       05/02/25       ADI         1       1       1       1         1       1       1       1         1       1       1       1         1       1       1       1         1       1       1       1         1       1       1       1         1       1       1       1         1       1       1       1         1       1       1       1         1       1       1       1	ESCRIPTION DEN 2
PROJECT NO. : 23 DATE OF ISSUE : 03 REVIEWED BY : AL	062 /07/25 CF .C
DESIGNED BY: RO ELECT VAULT	RICAL PLAN

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# **PROPOSED ONE-LINE DIAGRAM**

	JCP SCHEDULE							
JCP TAG	SHEET NUMBER	NORTHING	EASTING	DUCTS	JCP DETAIL REFERENCE (DETAIL # / SHEET #)	NOTES		
JCP-1	EP2.3	13458053.7644	2848962.5955	2	9/E2.3			
JCP-2	EP2.3	13457978.2356	2849041.2000	6	2/E2.4			
JCP-3	EP2.3	13457646.1903	2848932.8503	6	2/E2.4			
JCP-4	EP2.6	13457714.8999	2848788.1537	2	9/E2.3			
JCP-5	EP2.6	13457790.4216	2848709.5568	2	9/E2.3			
JCP-6	EP2.6	13457316.7555	2848616.3057	6	2/E2.4			
JCP-7	EP2.3	13458252.2242	2849304.5064	2	9/E2.3			

	A PROPOSED SIGN Descodo Sign			SIGN DATA			٩	ISOL						
			LD CKT	DULES	Ш	۲LE	ASS	XFMR (QTY) (AND SIZE)	INFORM	AD ATION	SHEET NUMBER	NORTHING	EASTING	
1					Q V	ZIS			*	TYPE	VA	$\sim$		$\sim\sim\sim\sim$
<b>[</b> ]	S1-A	<b>====</b> A3	A3 ⊻ 8-26 7	RE1	4	1	2	1	100 W	LED	95	EP2.01	13459566.7130	2847375.8394
{	S1-B		<mark>13-31 →</mark>	RE1	2	1	2	1	100 W	LED	95	EP2.01	13459566.7130	2847375.8394
	S2		<mark>←A3</mark>	RE1	2	1	2	1	100 W	LED	95	EP2.01	13221664.6562	2598572.7547
	S3	<b>====</b> A2	A2 13-31	RE1	3	1	2	1	100 W	LED	95	EP2.03	13222951.8933	2597010.1186
	S4	<mark>A2→</mark>		RE1	2	1	2	1	100 W	LED	95	EP2.03	13222785.4309	2596912.5744
	S5		<mark>←A2</mark>	RE1	2	1	2	1	100 W	LED	95	EP2.03	13221970.6610	2597493.3482
	S6			RE1	2	1	2	1	100 W	LED	95	EP2.05	13221957.2738	2597935.2165
Ĭ Š	S7-A	==== <mark>A1</mark>	A1 ← 13-31	RE1	4	1	2	1	100 W	LED	95	EP2.05	13221993.7184	2597951.6316
{	S7-B		⊾ 18-36	RE1	3	1	2	1	100 W	LED	95	EP2.05	13221993.7184	2597951.6316
									$\overline{}$					$\overline{\ldots}$

#### **GENERAL NOTES - SIGNAGE**

- 1. REFER TO SIGN DETAILS ON EP5.2 AND E2.2. ALL SIGN BASE CANS ARE LOCATED ON INBOARD SIDE OF THE SIGN (SIDE NEAREST TO EDGE MARKING) UNLESS OTHERWISE NOTED.
- 2. NORTHINGS & EASTINGS REFER TO THE SIDE OF THE SIGN NEAREST TO EDGE OF PAVEMENT.

#### **KEYED NOTES - SIGNAGE**

- 1 FURNISH AND INSTALL NEW SIGN ON NEW FOUNDATION FOLLOWING PLANS, DETAILS, AND SPECIFICATIONS. COORDINATE FIELD TAG ID WITH OPERATIONS.
- 2 FUNISH AND INSTALL NEW SIGN ON EXISTING PAVEMENT FOLLOWING PLANS, DETAILS, AND SPECIFICATIONS. COORDINATE FIELD TAG ID WITH OPERATIONS.

FILE NAME: 20616 PSX EP6.1.dwg C:lpw\_working\

![](_page_64_Figure_9.jpeg)

![](_page_64_Picture_10.jpeg)

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![](_page_65_Figure_1.jpeg)

- 1. ALL ITEMS SHOWN IN HEAVY LINEWEIGHT ARE DEMOLISHED OR MODIFIED, ALL ITEMS SHADED ARE EXISTING TO REMAIN. REFER TO SHEET E1.1 FOR ELECTRICAL SYMBOL LEGEND.
- 2. REFER TO EG2 SERIES FOR PROPOSED AIRFIELD ELECTRICAL PLANS.
- 3. KEYED NOTES ARE TYPICAL FOR ALL SHEETS OF THIS SERIES (EG1 SERIES). ALL LISTED KEYED NOTES FOR A PARTICULAR SHEET MAY NOT APPLY AND THEREFORE THE KEYED NOTE IDENTIFIER WILL NOT BE SHOWN ON THE PLAN PORTION OF THE SHEET.
- 4. THE CONTRACTOR SHALL PROVIDE LOCK-OUT PROCEDURES PER NEC TO INSURE SAFETY OF PERSONNEL. REFER TO SECTION L-104.
- 5. EXISTING AIRFIELD CIRCUITS AND DUCT CROSSINGS HAVE BEEN TAKEN FROM AS-BUILT DOCUMENTATION. IT IS THE CONTRACTOR'S **RESPONSIBILITY TO VERIFY ALL EXISTING CIRCUIT** ROUTES PRIOR TO WORK.
- DIRECT BURIED CABLES NOTED MARKED FOR 6. DEMOLITION ARE TO BE ABANDONED IN PLACE. ONLY REMOVE ABANDONED CIRCUITS WHERE EXPOSED BY PROPOSED TRENCHING OPERATIONS. REMOVAL IN THIS INSTANCE WILL BE INCIDENTAL TO THE LINE ITEM ASSOCIATED WITH THE TRENCHING OPERATIONS.

#### **KEYED NOTES**

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- EXISTING AIRFIELD LIGHTING VAULT TO BE (1) DEMOLISHED. ALL ASSOCIATED EQUIPMENT WITHIN TO BE REMOVED AND DISPOSED OF OR SALVAGED AT THE REQUEST OF THE OWNER. REFER TO EG4 SERIES FOR DETAILS.
- SALVAGE EXISTING BEACON, POLE TO BE (2) DEMOLISHED. CONTRACTOR TO REMOVE CONDUCTORS AND CONDUIT BACK TO AIRFIELD LIGHTING VAULT.
- EXISTING WIND CONE AND ALL ASSOCIATED (3) EQUIPMENT TO BE DEMOLISHED, SEGMENTED CIRCLE TO REMAIN. CONTRACTOR TO REMOVE CONDUCTORS AND CONDUIT BACK TO AIRFIELD LIGHTING VAULT.
  - REMOVE EXISTING STAKE MOUNTED EDGE LIGHT, ISOLATION TRANSFORMER AND ASSOCIATED BROOKS BOX.

**REMOVE EXISTING OHE FEEDER TO VAULT** STRUCTURE AND ASSOCIATED METER. COORDINATE ALL WORK WITH UTILITY COMPANY. 

![](_page_65_Figure_15.jpeg)

HORIZ SCALE IN FEET

![](_page_65_Picture_16.jpeg)

![](_page_65_Figure_17.jpeg)

EG1.2

![](_page_66_Figure_0.jpeg)

- 1. ALL ITEMS SHOWN IN HEAVY LINEWEIGHT ARE NEW OR MODIFIED, ALL ITEMS SHADED ARE EXISTING TO REMAIN. REFER TO SHEET E1.1 FOR ELECTRICAL SYMBOL LEGEND.
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- 4. REFER TO EG6 SERIES FOR AIRFIELD LIGHTING AND SIGNAGE SCHEDULES.
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## KEYED NOTES

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- INSTALL SALVAGED BEACON ON NEW TIP DOWN POLE. REFER TO EG5.4 FOR DETAIL.
- ) INSTALL NEW L-881(L) PAPI. REFER TO EG5 SERIES FOR DETAILS.
- INSTALL NEW LED WIND CONE ON NEW TIP DOWN POLE. REPAINT EXISTING SEGMENTED CIRCLE. REFER TO SHEET E2.6 FOR DETAILS.
- ) INSTALL NEW L-849E(L) REIL. REFER TO SHEET EG5.3 FOR DETAILS.

![](_page_66_Figure_14.jpeg)

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<b>Ferguson Consulting</b>	10200 Grogans Mill Rd. Ste. #420			
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Telecommunications and Security Systems	(281) 252-9232 Firm No. 6864			
TXDOT ELECTRICAL STATEWIDE	GONZALES MUNICIPAL AIRPORT			
IMPROVEMENTS - GROUP A	GONZALES, TX 78629			
NO. DATE DE 1 05/02/25 ADD 1	ERCUSON ERCUSO			
DATE OF ISSUE : 03/07/25 REVIEWED BY : RCF DRAWN BY : ALC DESIGNED BY : RCF AIRFIELD ELECTRICAL LAYOUT PLAN				

EG2.2

![](_page_67_Figure_0.jpeg)

![](_page_67_Figure_1.jpeg)

1. ALL ITEMS SHOWN IN HEAVY, SOLID LINEWEIGHT ARE NEW OR MODIFIED. 2. ALL CONDUIT BELOW 6' AFF TO BE RGS. ALL CONDUIT INSTALLED ABOVE 6' AFF MAY BE EMT.

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#### **KEYED NOTES**

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<b>Ferguson Consultin</b> Aviation Specialists for Electrical, Telecommunications and Security Systems	10200 Grogans Mill Rd. Ste. #420 The Woodlands, TX 77380 (281) 252-9232 Firm No. 6864				
TXDOT ELECTRICAL STATEWIDE IMPROVEMENTS - GROUP A	GONZALES MUNICIPAL AIRPORT GONZALES, TX 78629				
NO. DATE DE 1 05/2/25 ADD	ESCRIPTION EN 2				
PROJECT NO.:       23062         DATE OF ISSUE:       03/07/25         REVIEWED BY:       RCF         DRAWN BY:       ALC         DESIGNED BY:       RCF					

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![](_page_68_Figure_0.jpeg)

- 1. ALL ITEMS SHOWN IN HEAVY LINEWEIGHT ARE NEW OR MODIFIED, ALL ITEMS SHADED ARE EXISTING TO REMAIN. REFER TO SHEET E1.1 FOR ELECTRICAL SYMBOL LEGEND.
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#### KEYED NOTES

- CONTRACTOR TO DEMOLISH EXISTING WIND CONE, POLE, AND REMOVE CONDUCTORS BACK TO SOURCE. SEGMENTED CIRCLE TO REMAIN.
- 2 CONTRACTOR TO DEMOLISH EXISTING PAPI LIGHT UNITS ALONG WITH ALL ASSOCIATED EQUIPMENT AND FOUNDATIONS. REMOVE OR ABANDONED EXISTING CONDUITS AND CONDUCTORS BACK TO EXISTING EQUIPMENT RACK.
- (3) DEMOLISH EXISTING CCRS, S-1 CUTOUTS, PILOT CONTROLLED RADIO, AND 5KV CONDUCTORS THAT SUPPORT EXISTING RUNWAY EDGE LIGHTING SYSTEM. ALL EXISTING 600V EQUIPMENT AND CONDUCTORS TO REMAIN.
- 4 EXISTING ELECTRICAL EQUIPMENT RACK TO BE MODIFIED. REMOVE ALL EQUIPMENT ASSOCIATED WITH RWY 36 PAPI AND REILS.
- (5) CONTRACTOR TO DEMOLISH EXISTING STAKE MOUNTED ELEVATED LIGHT FIXTURE, ASSOCIATED BROOKS BOX, AND ALL OTHER ASSOCIATED EQUIPMENT.
- 6 CONTRACTOR TO DEMOLISH EXISTING REIL LIGHT UNITS ALONG WITH ALL ASSOCIATED EQUIPMENT AND FOUNDATIONS. REMOVE OR ABANDONED EXISTING CONDUITS AND CONDUCTORS BACK TO EXISTING EQUIPMENT RACK.

![](_page_68_Figure_15.jpeg)

HORIZ SCALE IN FEET

Consulti Rd. TX orguson Ш TATEWIDE ROUP A AIRPORT Reell. TX 75160 \_ ທີ . MUNICIPAL / - S CTRIC/ EMENTS Ú -ERRELL | 400 BRITISH FLVI LE( ШÓ TODT NO. DATE DESCRIPTION 1 05/02/25 ADDEN 2 LECETTE FERGUSC 81460 ROJECT NO.: 23062 ATE OF ISSUE : 03/07/2025 EVIEWED BY : RCF RAWN BY : ALC ESIGNED BY : RCF

![](_page_68_Picture_17.jpeg)

## ET1.1

![](_page_69_Figure_0.jpeg)

- 1. ALL ITEMS SHOWN IN HEAVY LINEWEIGHT ARE NEW OR MODIFIED, ALL ITEMS SHADED ARE EXISTING TO REMAIN. REFER TO SHEET E1.1 FOR ELECTRICAL SYMBOL LEGEND.
- 2. THE CONTRACTOR SHALL PROVIDE LOCK-OUT PROCEDURES PER NEC TO INSURE SAFETY OF PERSONNEL. REFER TO SECTION L-104
- 3. REFER TO ET1 SERIES FOR EXISTING AIRFIELD ELECTRICAL PLANS.
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- 5. KEYED NOTES ARE TYPICAL FOR ALL SHEETS OF THIS SERIES (ET2 SERIES). ALL LISTED KEYED NOTES FOR A PARTICULAR SHEET MAY NOT APPLY AND THEREFORE THE KEYED NOTE IDENTIFIER WILL NOT BE SHOWN ON THE PLAN PORTION OF THE SHEET.
- 6. EXISTING AIRFIELD CIRCUITS AND DUCT CROSSINGS HAVE BEEN TAKEN FROM AS-BUILT DOCUMENTATION. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL EXISTING CIRCUIT ROUTES PRIOR TO WORK.

- INSTALL NEW L-880(L) PAPI. REFER TO ET5 SERIES FOR DETAILS.
- (2) INSTALL NEW WIND CONE AND TIP DOWN POLE. EXISTING SEGMENTED CIRCLE TO BE REPAINTED. REFER TO SHEET E2.6 FOR DETAILS.
- (3) INSTALL NEW AIRFIELD ELECTRICAL LIGHTING VAULT. REFER TO ET4 SERIES FOR ENLARGED PLAN AND DETAILS.
- 4 INSTALL NEW ISOLATION TRANSFORMER IN EXISTING SIGN.
- 5 INSTALL NEW 2-WAY JCP TO INTERCEPT EXISTING 2-WAY 2" DUCT CROSSING.
- 6 INSTALL NEW L-849E(L) REIL. REFER TO SHEET ET5.3 FOR DETAILS.

![](_page_69_Figure_15.jpeg)

![](_page_69_Figure_16.jpeg)

![](_page_70_Figure_0.jpeg)

- 1. ALL ITEMS SHOWN IN HEAVY LINEWEIGHT ARE NEW OR MODIFIED, ALL ITEMS SHADED ARE EXISTING TO REMAIN. REFER TO SHEET E1.1 FOR ELECTRICAL SYMBOL LEGEND.
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## **KEYED NOTES**

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- (2) INSTALL NEW WIND CONE AND TIP DOWN POLE. EXISTING SEGMENTED CIRCLE TO BE REPAINTED. REFER TO SHEET E2.6 FOR DETAILS.
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- (6)INSTALL NEW L-849E(L) REIL. REFER TO SHEET ET5.3 FOR DETAILS.

![](_page_70_Figure_16.jpeg)

![](_page_70_Figure_17.jpeg)

**ET2.2** 

![](_page_71_Figure_0.jpeg)

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![](_page_71_Figure_15.jpeg)

![](_page_71_Figure_16.jpeg)




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<b>Ferguson Consulting</b>	10200 Grogans Mill Rd. Ste. #420								
Aviation Specialists for Electrical,	The Woodlands, TX 77380								
Telecommunications and Security Systems	(281) 252-9232 Firm No. 6864								
TXDOT ELECTRICAL STATEWIDE	TERRELL MUNICIPAL AIRPORT								
IMPROVEMENTS - GROUP A	400 BRITISH FLYING SCHOOL BLVD, TERRELL, TX 75160								
NO. DATE DE   1 05/02/25 ADD   - - -   - - -   - - -   - - -   - - -   - - -   - - -   - - -   - - -   - - -   - - -   - - -   - - -   - - -	ESCRIPTION EN 2								
PROJECT NO. : 23062 DATE OF ISSUE : 03/07/2025 REVIEWED BY : RCF DRAWN BY : ALC DESIGNED BY : PCE									
AIRFI	ELD								
ELECTI	RICAL								
LAYOUT	PLAN								



#### MATCHLINE

(RE: SHEET ET2.3 FOR CONTINUATION)

— (2) RE-1 2#8, 1#8G (RWY 36 PAPI) 2#10, 1#10G (WINDCONE)

2#8, 1#8G (RWY 36 PAPI) 2#10, 1#10G (WINDCONE)

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HORIZ SCALE IN FEET



			TERRELL	MUNICIPLE	- EDGE l	<u>IGHT FI</u>	XTURES (R	E1)		
FIXTURE NUMBER	FAA TYPE	FAA BASE	LIGHT ORIENTATION	COLOR	NORTHING	EASTING	REGULATOR ID	CIRCUIT NAME		KEYNOTES
R1	L-861E(L)	L-867	BIDIRECTIONAL	GREEN-RED	6950505.8482	2655128.1099	RE1	RE1		
R2	L-861E(L)	L-867	BIDIRECTIONAL	GREEN-RED	6950506.0804	2655138.1072	RE1	RE1	(1)	
R3	L-861E(L)	L-867	BIDIRECTIONAL	GREEN-RED	6950506.3126	2655148.1045	RE1	RE1	$\bigcirc$	
R5	L-861E(L)	L-867	BIDIRECTIONAL	GREEN-RED	6950506.5448	2655193 3142	RE1	RE1 RF1	$\left  \begin{array}{c} 0 \\ 0 \end{array} \right $	
R6	L-861E(L)	L-867	BIDIRECTIONAL	GREEN-RED	6950507.5949	2655203.3115	RE1	RE1	$\overline{(1)}$	
R7	L-861E(L)	L-867	BIDIRECTIONAL	GREEN-RED	6950507.8271	2655213.3088	RE1	RE1	$\overbrace{1}$	
R8	L-861E(L)	L-867	BIDIRECTIONAL	GREEN-RED	6950508.0593	2655223.3061	RE1	RE1		
R9	L-861(L)	L-867	BIDIRECTIONAL	WHITE-YELLOW	6950314.7978	2655227.7544	RE1	RE1	$\left( \begin{array}{c} 1 \end{array} \right)$	
R10	L-861(L)	L-867	BIDIRECTIONAL	WHITE-YELLOW	6950121.5363	2655232.2027	RE1	RE1		
R11 R12	L-861(L)	L-867	BIDIRECTIONAL	WHITE-YELLOW	6949928.2749	2655236.6524	RE1	RE1	$\left  \begin{array}{c} 0 \\ 0 \end{array} \right $	
R13	L-861(L)	L-867	BIDIRECTIONAL	WHITE-YELLOW	6949541.7519	2655245.5490	RE1	RE1	$\overline{(1)}$	
R14	L-861(L)	L-867	BIDIRECTIONAL	WHITE-YELLOW	6949348.4904	2655249.9972	RE1	RE1	$\overbrace{1}$	
R15	L-861(L)	L-867	BIDIRECTIONAL	WHITE-YELLOW	6949155.2289	2655254.4443	RE1	RE1	$\overbrace{1}$	
R16	L-861(L)	L-867	BIDIRECTIONAL	WHITE-YELLOW	6948961.9674	2655258.8927	RE1	RE1	$\overline{1}$	
R17	L-861(L)	L-867	BIDIRECTIONAL	WHITE-YELLOW	6948768.7059	2655263.3410	RE1	RE1		
R18	L-861(L)	L-867	BIDIRECTIONAL	WHITE-YELLOW	6948575.4445	2655267.7893	RE1	RE1		
R19	L-861(L)	L-867	BIDIRECTIONAL		6948382.1830	2655272.2385	RE1	RE1	(1)	
R20	L-861(L)	L-867	BIDIRECTIONAL	WHITE-WHITE	6948188.9215	2655276.6859	RE1	RE1	$\left  \begin{array}{c} 0 \\ 0 \end{array} \right $	
R22.	L-861(L)	L-867	BIDIRECTIONAL	WHITE-WHITE	6947802.3985	2655285.5826	RE1	RE1	$\overline{(1)}$	
R23	L-861(L)	L-867	BIDIRECTIONAL	WHITE-WHITE	6947609.1370	2655290.0316	RE1	RE1	$\overline{(1)}$	
R24	L-861(L)	L-867	BIDIRECTIONAL	WHITE-YELLOW	6947415.8755	2655294.4792	RE1	RE1	$\overbrace{1}$	
R25	L-861(L)	L-867	BIDIRECTIONAL	WHITE-YELLOW	6947222.6141	2655298.9281	RE1	RE1		
R26	L-861(L)	L-867	BIDIRECTIONAL	WHITE-YELLOW	6947029.3526	2655303.3763	RE1	RE1		
R27	L-861(L)	L-867	BIDIRECTIONAL	WHITE-YELLOW	6946836.0911	2655307.8246	RE1	RE1	(1)	
R28	L-861(L)	L-867	BIDIRECTIONAL	WHITE-YELLOW	6946642.8296	2655312.2729	RE1	RE1	(1)	
R29	L-861(L)	L-867	BIDIRECTIONAL	WHITE-YELLOW	6946449.5681	2655316.7208	RE1	RE1	$\bigcirc$	
R31	L-861(L)	L-867	BIDIRECTIONAL	WHITE-YELLOW	6946063.0451	2655325.6175	RE1	RE1	$\overline{\bigcirc}$	
R32	L-861(L)	L-867	BIDIRECTIONAL	WHITE-YELLOW	6945869.7837	2655330.0659	RE1	RE1	$\overline{(1)}$	
R33	L-861(L)	L-867	BIDIRECTIONAL	WHITE-YELLOW	6945676.5222	2655334.5142	RE1	RE1	$\overbrace{1}$	
R34	L-861E(L)	L-867	BIDIRECTIONAL	GREEN-RED	6945483.2607	2655338.9624	RE1	RE1		
R35	L-861E(L)	L-867	BIDIRECTIONAL	GREEN-RED	6945483.0285	2655328.9651	RE1	RE1	(1)	
R36	L-861E(L)	L-867	BIDIRECTIONAL	GREEN-RED	6945482.7963	2655318.9678	RE1	RE1	(1)	
R37	L-861E(L)	L-867	BIDIRECTIONAL	GREEN-RED	6945482.5641	2655308.9705	RE1	RE1	(1)	
R39	L-861E(L)	L-867	BIDIRECTIONAL	GREEN-RED	6945481.7883	2655265 5725	RE1	RE1	$\frac{0}{0}$	
R40	L-861E(L)	L-867	BIDIRECTIONAL	GREEN-RED	6945481.3239	2655255.5751	RE1	RE1	$\overline{(1)}$	
R41	L-861E(L)	L-867	BIDIRECTIONAL	GREEN-RED	6945481.0916	2655245.5778	RE1	RE1	$\overbrace{1}$	
R42	L-861(L)	L-867	BIDIRECTIONAL	WHITE-YELLOW	6945674.3515	2655241.0598	RE1	RE1	$\overline{1}$	
R43	L-861(L)	L-867	BIDIRECTIONAL	WHITE-YELLOW	6945867.6114	2655236.5418	RE1	RE1		
R44	L-861(L)	L-867	BIDIRECTIONAL	WHITE-YELLOW	6946060.8713	2655232.0239	RE1	RE1		
R45	L-861(L)	L-867	BIDIRECTIONAL		6946254.1311	2655227.5059	RE1	RE1		
R47	L-861(L)	L-867	BIDIRECTIONAL	WHITE-YELLOW	0940447.3910 6946640 6500	2000222.9879 2655218 4600	RF1			
R48	L-861(L)	L-867	BIDIRECTIONAL	WHITE-YELLOW	6946833.9107	2655213.9519	RE1	RE1	$\overline{(1)}$	
R49	L-861(L)	L-867	BIDIRECTIONAL	WHITE-YELLOW	6947027.1706	2655209.4339	RE1	RE1	$\overbrace{1}$	
R50	L-861(L)	L-867	BIDIRECTIONAL	WHITE-YELLOW	6947220.4305	2655204.9159	RE1	RE1		
R51	L-861(L)	L-867	BIDIRECTIONAL	WHITE-YELLOW	6947413.6903	2655200.3979	RE1	RE1		
R52	L-861(L)	L-867	BIDIRECTIONAL	WHITE-WHITE	6947606.9502	2655195.8799	RE1	RE1	(1)	
R53	L-861(L)	L-867	BIDIRECTIONAL	WHITE-WHITE	6947800.2101	2655191.3619	RE1	RE1	(1)	
R54 	L-861(L)	L-867	BIDIRECTIONAL	WHITE-WHITE	6947993.4699	2655180.8439	RE1	RE1	$\bigcirc$	
R56	L-861(L)	L-867	BIDIRECTIONAL	WHITE-WHITE	6948379.9897	2655177.8079	RE1	RE1	$\overline{\bigcirc}$	
R57	L-861(L)	L-867	BIDIRECTIONAL	WHITE-YELLOW	6948573.2495	2655173.2899	RE1	RE1	$\overbrace{1}$	
R58	L-861(L)	L-867	BIDIRECTIONAL	WHITE-YELLOW	6948766.5094	2655168.7719	RE1	RE1	$\overleftarrow{1}$	
R59	L-861(L)	L-867	BIDIRECTIONAL	WHITE-YELLOW	6948959.7693	2655164.2539	RE1	RE1	$\mathbf{\tilde{1}}$	
R60	L-861(L)	L-867	BIDIRECTIONAL	WHITE-YELLOW	6949153.0291	2655159.7359	RE1	RE1		
R61	L-861(L)	L-867	BIDIRECTIONAL	WHITE-YELLOW	6949346.2890	2655155.2179	RE1	RE1		
R62	L-861(L)	L-867	BIDIRECTIONAL	WHITE-YELLOW	6949539.5489	2655150.6999	RE1	RE1		
R64	L-861(L)	L-867	BIDIRECTIONAL		0949732.8087 6949926 0696	2655146.1819 2655141 6620		RE1		
 R65	L-001(L)	L-867	BIDIRECTIONAL	WHITE-YELLOW	6950119.3285	2655137.1459	RE1	RE1	K	
		1_867	BIDIRECTIONAL	WHITE-YELLOW	6950312 5883	2655132.6279	RF1	RF1	K	

	JCP SCHEDULE											
JCP TAG SHEET NUMBER				DUCTS	JCP DETAIL REFERENCE (DETAIL # / SHEET #)	NOTES						
JCP-1	ET2.6	6948533.5098	2654539.5122	6	2/E2.4							
JCP-2	ET2.3	6948540.6000	2654845.4720	6	2/E2.4							
JCP-3	ET2.3	6948545.6415	2655063.1754	6 / 1	2/E2.4							
JCP-4	ET2.3	6948551.3918	2655311.1610	4	9/E2.3							
JCP-5	ET2.3	6948150.0187	2655072.3644	2	9/E2.3							
JCP-6	ET2.3	6947757.3952	2655081.4840	2	9/E2.3							
JCP-7	ET2.3	6947709.2742	2655082.6266	2	9/E2.3							
JCP-8	ET2.4	6947313.1355	2655091.8027	2	9/E2.3							
JCP-9	ET2.4	6946937.3066	2655100.5121	2	9/E2.3							
JCP-10	ET2.4	6946539.1496	2655082.3785	2	9/E2.3							
JCP-11	ET2.4	6946486.4547	2655083.6271	2	9/E2.3							
JCP-12	ET2.5	6945555.1608	2655200.5469	2	9/E2.3							
JCP-13	ET2.5	6945470.1836	2655202.5162	2	9/E2.3							
JCP-14	ET2.2	6949183.2751	2655028.3209	2	9/E2.3							
JCP-15	ET2.2	6949239.7192	2655026.9855	2	9/E2.3							
JCP-16	ET2.1	6950447.2327	2654996.4938	2	9/E2.3							
JCP-17	ET2.1	6950498.7088	2654995.2735	2	9/E2.3							

LIGHT FIXTURE ELECTRICAL INFORMATION:											
FIXTURE TYPE FAA TYPE LAMP WATTAGE ISOLATION TRANSFORM											
RUNWAY ELEVATED LED EDGE LIGHT	L-861(L)	12VA	L-830-16 (10/15W)								
RUNWAY ELEVATED LED THRESHOLD END LIGHT	L-861E(L)	12VA	L-830-16 (10/15W)								

ED (	PROPOS	ED SIGN	<sub>⊢</sub>		SIGN	DAT/	۹ ۱	ISOL	LOA	LOAD				
OPOS LLD GGING	LEG	LEGEND		OULES		LE L	SS	(QTY) (AND SIZE)	INFORMATION		SHEET NUMBER	NORTHING	EASTING	NOTES
PR FIE	SIDE 1	SIDE 2		ΙΟΜ	SIZI	STY	CLA	*	TYPE	VA				
S1		←B	RE1	1	1	2	1	65 W	LED	85	ET2.01	6950413.8071	2655120.4621	1
S2	C→		RE1	1	1	2	1	65 W	LED	85	ET2.02	6949276.1125	2655146.8269	1
S3		← C	RE1	1	1	2	1	65 W	LED	85	ET2.02	6949152.1458	2655149.6996	1
S4	D→		RE1	1	1	2	1	65 W	LED	85	ET2.03	6947797.3092	2655181.0964	1
S5		← D	RE1	1	1	2	1	65 W	LED	85	ET2.03	6947673.3425	2655183.9692	1
S6	E→		RE1	1	1	2	1	65 W	LED	85	ET2.04	6946577.6366	2655209.3609	1
S7		←E	RE1	1	1	2	1	65 W	LED	85	ET2.04	6946453.6699	2655212.2337	1
S8	<mark>F→</mark>		RE1	1	1	2	1	65 W	LED	85	ET2.05	6945572.9214	2655233.2922	1

\* NEW SIGN ISOLATION TRANSFORMER SIZE WILL VARY PER MANUFACTURER. SIZES LISTED ARE FOR SIGN MANUFACTURER - ADB. IF ALTERNATE MANUFACTURER IS USED, PROVIDE ISOLATION TRANSFORMER SIZE PER MANUFACTURER RECOMMENDATIONS. THE CONTRACTOR SHALL BARE ALL THE COSTS ASSOCIATED WITH ANY EQUIPMENT UPGRADES NECESSARY DUE TO THE CONTRACTOR'S PROPOSED EQUIPMENT POWER REQUIREMENTS EXCEEDING THE CONTRACT DESIGN LOADS.

#### **GENERAL NOTES - SIGNAGE**

- 1. REFER TO SIGN DETAILS ON E2.2. ALL SIGN BASE CANS ARE LOCATED ON INBOARD SIDE OF THE SIGN (SIDE NEAREST TO EDGE MARKING) UNLESS OTHERWISE NOTED.
- 2. NORTHINGS & EASTINGS REFER TO THE SIDE OF THE SIGN NEAREST TO EDGE OF PAVEMENT.

### **KEYED NOTES - SIGNAGE**

(1) FURNISH AND INSTALL NEW SIGN ON NEW FOUNDATION FOLLOWING PLANS, DETAILS, AND SPECIFICATIONS. COORDINATE FIELD TAG ID WITH OPERATIONS.

## **GENERAL NOTES - LIGHTING**

- 1. REFER TO ET2 SERIES FOR PROPOSED LIGHTING PLANS, THE ET3 SERIES FOR DIMENSIONS PLANS AND ET5 SERIES FOR DETAILS.
- 2. FIXTURES NORTHINGS AND EASTINGS HAVE BEEN PROVIDED FOR CONTRACTORS TO USE IN LOCATING NEW BASE CANS. HOWEVER THE CONTRACTOR MUST INSTALL ALL FIXTURES FOLLOWING THE DETAILS, WHERE NORTHINGS AND EASTINGS CONFLICT WITH DETAILS, THE CONTRACTOR SHALL CONTACT THE ENGINEER FOR GUIDANCE. TYPICALLY, THE DETAILS SUPERSEDE NORTHINGS AND EASTINGS INFORMATION. IF MARKINGS ARE MODIFIED, THE NORTHINGS AND EASTINGS MAY NO LONGER BE ACCURATE.

#### **KEYED NOTES - LIGHTING**

(1)PROCURE AND INSTALL NEW ELEVATED FIXTURE (TYPE AS NOTED) ON NEW BASE CAN WITH NEW **ISOLATION TRANSFORMER, CONNECTOR KIT,** BOLTING HARDWARE, ETC FOR A COMPLETE ACCEPTED SYSTEM.

