

ADDENDUM NO. 1
COVER SHEET

JUNE 4, 2025

TXDOT AVIATION DIVISION
AIRFIELD LIGHTING AND REMARKING
at
NORTH TEXAS REGIONAL AIRPORT (GYI)
DENISON, TX

TXDOT PROJECT NUMBER 2501DENSN

CONTENTS

COVER PAGE..... PAGES 1

ADDENDUM NO. 1..... PAGES 4

BID PROPOSAL REVISIONS PAGES 8

TECHNICAL SPECIFICATION REVISIONS PAGES 1

CONSTRUCTION DRAWING UPDATES PAGES 3

PREBID SIGN-IN SHEET & AGENDA PAGES 4

TOTAL NUMBER OF PAGES..... 21
(INCLUDING THIS COVER)

DATE: June 4, 2025

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**TXDOT AVIATION DIVISION
AIRFIELD LIGHTING AND REMARKING
at
NORTH TEXAS REGIONAL AIRPORT (GYI)
DENISON, TX**

TXDOT PROJECT NUMBER 2501DENS

TO: All Plan-holders of Record

The following addendum items supplement, clarify, modify, change, replace, delete from or add to, the requirements of the contract documents for this project. The articles contained in the addendum take precedence over the requirements of the previously published contract documents. Where any article of the contract specifications or any detail of the contract drawings is modified or any paragraph, subparagraph or clause thereof is modified or deleted by the articles contained in this addendum, the unaltered provisions of that article, paragraph, subparagraph or clause shall remain in effect.

PREPARED BY: Woolpert, Inc.
11750 Katy Freeway, Suite 1260
Houston, TX 77079

CERTIFIED BY:

Sebastian De Castro

ADDENDUM BEGINS

BID FORM REVISIONS

1. Bid Form
Revision: Removed L-101a and L-101b from the project.
Justification: Airport already has an updated beacon.
2. Bid Form
Revision: Revise quantity for Item L-125a from 171 to read 257.
Justification: The number of removals from soil was updated.
3. Bid Form
Revision: Revise quantity for Item L-125b from 226 to read 140.
Justification: The number of removals from pavement was updated.

TECHINICAL SPECIFICATION REVISIONS

1. Technical Specifications
Revision: Specification L-101 Airport Rotating Beacons, delete specification in its entirety.
Justification: The beacon installation is no longer part of the scope of this project.
2. Technical Specifications
Revision: Specification L-109 Installation of Airport Lighting Systems, page MOD L-109-7, Section 7-1, revise Item L-109b to read, "Install L-829 Constant Current Regulator, 2.5KW, Ferroresonant Type with IRMS and Input Monitoring, Complete – per each
Justification: The CCRs are 2.5KW and not 4KW.

CONSTRUCTION DRAWING UPDATES

1. Sheet Title.: SHEET INDEX AND SUMMARY OF APPROXIMATE QUANTITIES
Sheet No.: 2
Revision: Removed L-101a and L-101b from the project, and revise items L-125a and L-125b as shown in the bid proposal. Revise Item L-109b to read "“Install L-829 Constant Current Regulator, 2.5KW, Ferroresonant Type with IRMS and Input Monitoring, Complete”
Justification: The Airport has a newer beacon that does not need to be replaced. Items L-125a and L-125b were revised to reflect actual removals. Item L-109b description was revised to show the correct CCR size.
2. Sheet Title.: ELECTRICAL LEGEND AND GENERAL NOTES
Sheet No.: 50
Revision: Revise note 26 to read "THE CONTRACTOR SHALL MEASURE THE INSULATION RESISTANCE OF ALL AIRFIELD CIRCUITS PRIOR TO STARTING ANY ELECTRICAL WORK."
Justification: A megohmmeter will not be provided to the Airport by the Contractor.
3. Sheet Title.: ELECTRICAL GEOMETRY PLAN ELECTRICAL VAULT AND ATCT
Sheet No.: 67
Revision: Delete the note that reads "REMOVE EXISTING ROTATING BEACON LOCATED ON TOP OF ATCT. INSTALL NEW L-801A LED BEACON IN SAME LOCATION. RE-TERMINATE EXISTING WIRE TO NEW BEACON."
Justification: A new beacon will not be installed during the project.

CLARIFICATIONS / RFI RESPONSES

1. I think the days allotted on the job are unrealistic. Procurement of materials is running 10 weeks minimum. The performance of the work should be more like 120 days.
 - a. We recommend mobilizing simultaneous crews and procuring materials as early as possible.
2. The 4.5" trench in pavement seems a little tight to get P-610 concrete around the conduit and fill the 3" void under the pipe properly. Would a 6" to 8" trench be better? It would be easier to obtain equipment to do this size trench?
 - a. A wider trench would be considered by the Engineer if the Contractor's means and methods dictated it. The Contractor shall submit their alternate method to the Engineer for approval.
3. Are there bore logs available to better identify the existing pavement make up and thickness?
 - a. Boring logs will become available upon selection.
4. Are there as-builts available to better identify the existing pavement make up and thickness?
 - a. No
5. In some of the concrete areas would it be permissible to do a 4" x4" kerf cut and short base (pancake) cans?
 - a. Shallow base cans will not be acceptable for the project.
6. Plan sheet G004 Safety Note 4 states to use the airports lighted X's for Runway Closures. Plans sheet G055 state's that the contractor will provide lighted X's. Which note prevails?
 - a. Please provide lighted X's. Note G004 will be updated in the addendum.
7. Plan Sheet G072 is the Environmental Exhibit , it shows to use excelsior logs around the inlets, but there is no indication of how many or where the inlets are located. Trenching for conduit and drilling holes for light bases will be about the only soil that is disturbed, Please advise to as what is expected for erosion control.
 - a. Trenching for conduit and drilling light bases will constitute the majority of the disturbed soil. As such, the erosion control requirements are expected to be limited in scope. While Plan Sheet G072 provides standard details (e.g., use of excelsior logs around inlets), the plans do not specify exact quantities or inlet locations, as these may vary slightly based on final field conditions. It is the contractor's responsibility to develop and submit a site-specific erosion control plan prior to the issuance of Notice to Proceed, in accordance with TxDOT Aviation Division specifications and FAA AC 150/5370-10 standards. This plan should:
 - i. Identify locations of inlets and disturbed areas.
 - ii. Propose erosion control measures appropriate to the scope of disturbance.
 - iii. Be reviewed and approved by the Engineer and Airport Sponsor prior to mobilization.
8. On the C1XX pages it shows the electrical demo for the lights, signs and PAPI's and it shows either conduit or cable between them however does not have a note referring to the conduit/cable. Is the contractor to remove the existing conduit/cable and if so can a bid item please be provided?
 - a. See notes 9 thru 14 on Sheets C101 thru C121 for demolition guidance. Removal of abandoned cable is considered incidental to the various bid items. The cable will become the property of the Contractor upon removal.
9. Bid item L-115a is removal of 4ea Junction Boxes however they are not shown on the C1XX pages. Can the location of the 4ea junction box removals please be shown?
 - a. The item is a place holder for any unidentified junction boxes that are encountered and need to be removed during the project.
10. The scale for the C1XX pages and E2XX pages show 1"=50' on the plans however the scale appears to actually be 1"=100'. Please confirm the scale.
 - a. The scale bar on the sheets is correct. The plans are printed as an 11"x17" half size sheet. Thus if scaling in a pdf program, like Bluebeam, the scale would need to be set to 1"=100' to attain the

correct dimensions.

11. Are there any existing buried electrical cables or utilities within the proposed trenching and excavation areas? If so, will as-built or utility maps be provided to avoid conflicts during electrical removals?
 - a. The project includes electrical removals and trenching for new conduits. Contractors are expected to exercise caution and coordinate utility locating prior to excavation.
12. Are there any updates to the quantities or materials that bidders should be aware of?
 - a. The airport beacon will be removed from the project, as the airport already has a new one. The number of runway and taxiway light removals has been updated.
13. Are federal wage rates required for this project?
 - a. Yes. This project uses IIJA funds and is therefore subject to Davis-Bacon federal wage requirements. Certified payrolls must be submitted by contractors and all subcontractors.
14. Is a field office required for this project?
 - a. No. A field office is not required, and it is not included in the project specifications. Contractors should review the mobilization section for any related details.
15. Will contractors need to maintain communication with the airport tower during construction?
 - a. Yes. The contractor must maintain communication with the control tower during airfield operations, especially when working near active taxiways and runways. This is required due to the airport remaining operational during construction.
16. How should contractors arrange access to water on-site? Do they need to contact the city or county for a meter?
 - a. Contractors must set up an account and request a meter. Further coordination with the airfield manager is recommended. Multiple fire hydrants are available nearby, so water availability should not be an issue.
17. Bid item L-125a is the removal of Runway Edge Lights in soil. The bid item quantity is 171, but our field count identified 263 lights. Please verify the quantity.
 - a. The quantity will be revised in Addendum No. 1.
18. Bid item L-125b covers the removal of Runway and Taxiway edge lights located in existing pavement. The bid quantity is 226, but our count was 133. Please verify the quantity.
 - a. The quantity will be revised in Addendum No. 1.
19. The specified CCR for bid item L-109a (L-829 4kW Constant Current Regulator) appears to differ in size from the CCRs shown on Sheet E255, Page 73. Please clarify the required CCR sizes.
 - a. The CCRs will be 2.5KW as shown on sheet E255. The bid proposal will be updated with the change.
20. Bid item L-110c, which refers to the install of 2W-2" SCH 40 PVC concrete encased conduit in existing pavement, is not shown on the plans. Please clarify whether this bid item is represented in the drawings.
 - a. The 2-2" PVC Conduit are small sections where we are trenching outside of the pavement, in the soil and then turning, perpendicular to the pavement edge and trenching through the pavement to the new light location. We will install 2 conduits in this situation in the pavement where each conduit will be installed to the adjacent lights. An example of this can be seen on sheet E200 on the south side of Taxiway A6. See note 7 on this sheet for more information.
21. The following conduit runs appear to pass through existing pavement. Please confirm whether these sections are required to be directionally drilled: Pages 53 & 61: Between lights STA: 126+84.84 & STA: 126+89.44; Page 57: Between lights STA: 176+33.28 & STA: 180+24.99; Page 58: Between lights STA: 188+08.40 & STA: 190+04.26.

- a. Directionally drilling will be required under pavements that are used by aircraft at the Airport. Closed taxiways will not require borings, conduit can be installed in the existing pavement. For lights installed between STA: 126+84.84 & STA: 126+89.44, boring is not required. For lights installed between STA: 176+33.28 & STA: 180+24.99, boring is not required. For lights installed between STA: 188+08.40 & STA: 190+04.26, boring is not required on the west side of RW 18L/36R but will be required on the east side as shown on the plans.

ADDENDUM ENDS

109-6.3 The quantity of equipment to be paid for under this item shall consist of all equipment installed, connected and accepted as a complete unit ready for operation within an existing vault or prefabricated metal housing.

Revise Section 109-7.1 as follows:

BASIS OF PAYMENT

~~**109-7.1** Payment will be made at the contract unit price for each completed and accepted vault or prefabricated metal housing equipment installation. This price shall 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 the item.~~

~~Payment will be made under:~~

- ~~Item L-109-7.1 Construction of Airport Transformer Vault in Place – per unit~~
- ~~Item L-109-7.2 Installation of Airport Transformer Vault Equipment in Place – per unit~~
- ~~Item L-109-7.3 Construction of [Prefabricated Metal Housing] [Prefabricated Concrete Building] and Foundation in Place – per unit~~
- ~~Item L-109-7.4 Installation of Equipment with in existing vault or prefabricated metal housing in Place – per unit~~

109-7.1 Payment will be made at the contract unit price for each completed and accepted vault or prefabricated metal housing equipment installation. This price shall 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 the item.

Payment will be made under:

- Item L-109a Remove Constant Current Regulator, Complete – per each
- Item L-109b Install L-829 Constant Current Regulator, 2.5KW, Ferroresonant Type with IRMS and Input Monitoring, Complete – per each
- Item L-109c Install L-829 Constant Current Regulator, 7.5KW, Ferroresonant Type with IRMS and Input Monitoring, Complete – per each
- Item L-109d Install L-829 Constant Current Regulator, 10KW, Ferroresonant Type with IRMS and Input Monitoring, Complete – per each
- Item L-109e Install S-1 Cutout in Lockable NEMA-1 Enclosure, Complete – per each
- Item L-109f Install L-854 Radio Controller in Existing Vault, Complete – per each
- Item L-109g Install Airport Lighting Control and Monitoring System (ALCMS), Complete – per lump sum

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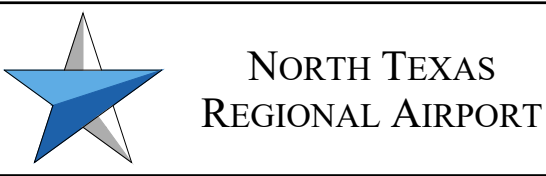
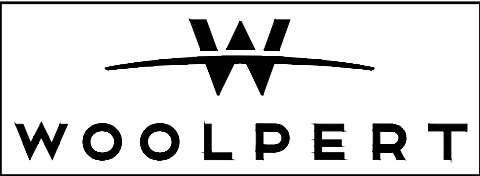
INDEX OF DRAWINGS		
SHEET NO.	SHEET I.D.	SHEET DESCRIPTION
1	G001	COVER SHEET
2	G002	SHEET INDEX AND SUMMARY OF APPROXIMATE QUANTITIES
3	G003	GENERAL NOTES
4	G004	GENERAL NOTES
5	G005	MASTER LEGEND & ABBREVIATIONS
6	G006	SURVEY CONTROL PLAN
7	G050	CONSTRUCTION SAFETY NOTES
8	G051	CONSTRUCTION SAFETY OVERALL PHASING PLAN
9	G052	CONSTRUCTION SAFETY PLAN - PHASE 1 & 2
10	G053	CONSTRUCTION SAFETY PLAN - PHASE 3
11	G054	CONSTRUCTION SAFETY PLAN - PHASE 4
12	G055	CONSTRUCTION SAFETY DETAILS
13	G070	EROSION CONTROL NOTES - SHEET 1 OF 2
14	G071	EROSION CONTROL NOTES - SHEET 2 OF 2
15	G072	ENVIRONMENTAL EXHIBIT
16	C101	DEMOLITION PLAN - STA. 93+00 TO STA. 106+00, RUNWAY 18L/36R - OFFSET 300' LT TO 600' RT
17	C102	DEMOLITION PLAN - STA. 106+00 TO STA. 119+00, RUNWAY 18L/36R - OFFSET 300' LT TO 600' RT
18	C103	DEMOLITION PLAN - STA. 119+00 TO STA. 132+00, RUNWAY 18L/36R - OFFSET 300' LT TO 600' RT
19	C104	DEMOLITION PLAN - STA. 132+00 TO STA. 145+00, RUNWAY 18L/36R - OFFSET 300' LT TO 600' RT
20	C105	DEMOLITION PLAN - STA. 145+00 TO STA. 158+00, RUNWAY 18L/36R - OFFSET 300' LT TO 600' RT
21	C106	DEMOLITION PLAN - STA. 158+00 TO STA. 171+00, RUNWAY 18L/36R - OFFSET 300' LT TO 600' RT
22	C107	DEMOLITION PLAN - STA. 171+00 TO STA. 184+00, RUNWAY 18L/36R - OFFSET 300' LT TO 600' RT
23	C108	DEMOLITION PLAN - STA. 184+00 TO STA. 197+00, RUNWAY 18L/36R - OFFSET 300' LT TO 600' RT
24	C109	DEMOLITION PLAN - STA. 97+00 TO STA. 106+00, RUNWAY 18L/36R - OFFSET 600' RT TO 1500' RT
25	C110	DEMOLITION PLAN - STA. 106+00 TO STA. 119+00, RUNWAY 18L/36R - OFFSET 600' RT TO 1500' RT
26	C111	DEMOLITION PLAN - STA. 119+00 TO STA. 132+00, RUNWAY 18L/36R - OFFSET 600' RT TO 1500' RT
27	C112	DEMOLITION PLAN - STA. 132+00 TO STA. 145+00, RUNWAY 18L/36R - OFFSET 600' RT TO 1500' RT
28	C113	DEMOLITION PLAN - STA. 145+00 TO STA. 158+00, RUNWAY 18L/36R - OFFSET 600' RT TO 1500' RT
29	C114	DEMOLITION PLAN - STA. 158+00 TO STA. 171+00, RUNWAY 18L/36R - OFFSET 600' RT TO 1500' RT
30	C115	DEMOLITION PLAN - STA. 171+00 TO STA. 184+00, RUNWAY 18L/36R - OFFSET 600' RT TO 1500' RT
31	C116	DEMOLITION PLAN - STA. 184+00 TO STA. 197+00, RUNWAY 18L/36R - OFFSET 300' RT TO 1500' RT
32	C117	DEMOLITION PLAN - STA. 119+00 TO STA. 132+00, RUNWAY 18L/36R - OFFSET 1500' RT TO 2400' RT
33	C118	DEMOLITION PLAN - STA. 132+00 TO STA. 145+00, RUNWAY 18L/36R - OFFSET 1500' RT TO 2400' RT
34	C119	DEMOLITION PLAN - STA. 145+00 TO STA. 148+00, RUNWAY 14L/36R - OFFSET 1500' RT TO 2400' RT
35	C120	DEMOLITION PLAN - STA. 158+00 TO STA. 171+00, RUNWAY 14L/36R - OFFSET 1500' RT TO 2400' RT
36	C121	DEMOLITION PLAN - STA. 171+00 TO STA. 184+00, RUNWAY 18L/36R - OFFSET 1500' RT TO 2400' RT
37	C701	PAVEMENT MARKING PLAN - STA. 100+00 TO STA. 149+50, RUNWAY 18L/36R
38	C702	PAVEMENT MARKING PLAN - STA. 149+50 TO STA. 190+00, RUNWAY 18L/36R
39	C703	PAVEMENT MARKING PLAN - TAXIWAY A AND APRON
40	C704	PAVEMENT MARKING PLAN - TAXIWAY A AND APRON
41	C705	PAVEMENT MARKING PLAN - GENERAL APRON
42	C706	MARKING POINT TABLE, POINTS 1 THRU 109 - STA. 100+00 TO STA. 149+50, RUNWAY 18L/36R
43	C707	MARKING POINT TABLE, POINTS 110 THRU 208 - STA. 149+50 TO STA. 191+03.35, RUNWAY 18L/36R
44	C708	MARKING POINT TABLE, POINTS 209 THRU 262 - STA. 100+63.20 TO STA. 142+29.31, RUNWAY 18L/36R
45	C709	MARKING POINT TABLE, POINTS 263 THRU 380 - STA. 154+19.56 TO STA. 191+24.20, RUNWAY 18L/36R
46	C710	MARKING POINT TABLE, POINTS 381 THRU 513 - STA. 124+37.04 TO STA. 173+75.66, RUNWAY 18L/36R
47	C751	PAVEMENT MARKING DETAILS - SHEET 1 OF 3
48	C752	PAVEMENT MARKING DETAILS - SHEET 2 OF 3
49	C753	PAVEMENT MARKING DETAILS - SHEET 3 OF 3
50	E001	ELECTRICAL LEGEND AND GENERAL NOTES
51	E200	ELECTRICAL GEOMETRY PLAN - STA. 93+00 TO 106+00 - RUNWAY 18L/36R, OFFSET 300' LT TO 600' RT
52	E201	ELECTRICAL GEOMETRY PLAN - STA. 106+00 TO 119+00 - RUNWAY 18L/36R, OFFSET 300' LT TO 600' RT
53	E202	ELECTRICAL GEOMETRY PLAN - STA. 119+00 TO 132+00 - RUNWAY 18L/36R, OFFSET 300' LT TO 600' RT
54	E203	ELECTRICAL GEOMETRY PLAN - STA. 132+00 TO 145+00 - RUNWAY 18L/36R, OFFSET 300' LT TO 600' RT
55	E204	ELECTRICAL GEOMETRY PLAN - STA. 145+00 TO 158+00 - RUNWAY 18L/36R, OFFSET 300' LT TO 600' RT
56	E205	ELECTRICAL GEOMETRY PLAN - STA. 158+00 TO 171+00 - RUNWAY 18L/36R, OFFSET 300' LT TO 600' RT
57	E206	ELECTRICAL GEOMETRY PLAN - STA. 171+00 TO 184+00 - RUNWAY 18L/36R, OFFSET 300' LT TO 600' RT
58	E207	ELECTRICAL GEOMETRY PLAN - STA. 184+00 TO 197+00 - RUNWAY 18L/36R, OFFSET 300' LT TO 600' RT
59	E208	ELECTRICAL GEOMETRY PLAN - STA. 93+00 TO 106+00 - RUNWAY 18L/36R, OFFSET 600' RT TO 1500' RT
60	E209	ELECTRICAL GEOMETRY PLAN - STA. 106+00 TO 119+00 - RUNWAY 18L/36R, OFFSET 600' RT TO 1500' RT
61	E210	ELECTRICAL GEOMETRY PLAN - STA. 119+00 TO 132+00 - RUNWAY 18L/36R, OFFSET 600' RT TO 1500' RT
62	E211	ELECTRICAL GEOMETRY PLAN - STA. 132+00 TO 145+00 - RUNWAY 18L/36R, OFFSET 600' RT TO 1500' RT
63	E212	ELECTRICAL GEOMETRY PLAN - STA. 145+00 TO 158+00 - RUNWAY 18L/36R, OFFSET 600' RT TO 1500' RT
64	E213	ELECTRICAL GEOMETRY PLAN - STA. 158+00 TO 171+00 - RUNWAY 18L/36R, OFFSET 600' RT TO 1500' RT
65	E214	ELECTRICAL GEOMETRY PLAN - STA. 171+00 TO 184+00 - RUNWAY 18L/36R, OFFSET 600' RT TO 1500' RT
66	E215	ELECTRICAL GEOMETRY PLAN - STA. 184+00 TO 197+00 - RUNWAY 18L/36R, OFFSET 600' RT TO 1500' RT
67	E216	ELECTRICAL GEOMETRY PLAN ELECTRICAL VAULT AND ATCT
68	E250	ELECTRICAL DETAILS - SHEET 1 OF 8
69	E251	ELECTRICAL DETAILS - SHEET 2 OF 8
70	E252	ELECTRICAL DETAILS - SHEET 3 OF 8
71	E253	ELECTRICAL DETAILS - SHEET 4 OF 8
72	E254	ELECTRICAL DETAILS - SHEET 5 OF 6
73	E255	ELECTRICAL DETAILS - SHEET 6 OF 8
74	E256	ELECTRICAL DETAILS - SHEET 7 OF 8
75	E257	ELECTRICAL DETAILS - SHEET 8 OF 8

SUMMARY OF APPROXIMATE QUANTITIES				
ITEM NO.	ITEM DESCRIPTION	UNITS	SCHEDULE I	
			ESTIMATE	AS BUILT
C-105a	MOBILIZATION (10% MAXIMUM)	LS	1	
P-620a	REFLECTORIZED PAVEMENT MARKING (WHITE & YELLOW - RWY, TWY A, B, E, F, APRON)	SF	200,000	
P-620b	NON-REFLECTORIZED PAVEMENT MARKING (BLACK - RWY, TWY A, B, E, F, APRON)	SF	131,000	
P-620c	EXISTING PAVEMENT MARKING REMOVAL	SF	380,650	
L-107a	REMOVE EXISTING PRIMARY WIND CONE AND SEGMENTED CIRCLE MARKER SYSTEM, COMPLETE	EA	1	
L-107b	INSTALL L-806 LED WIND CONE ON NEW FOUNDATION, COMPLETE	EA	2	
L-107c	INSTALL L-807 LED WIND CONE ON NEW FOUNDATION, COMPLETE	EA	1	
L-107d	INSTALL SEGMENTED CIRCLE MARKER SYSTEM, COMPLETE	EA	1	
L-108a	INSTALL #8 AWG, L-824C, 5000V, WIRE	LF	95,000	
L-108b	INSTALL #6 AWG, BARE COPPER COUNTERPOISE INCLUDING GROUND RODS AND TERMINATIONS	LF	50,000	
L-109a	REMOVE CONSTANT CURRENT REGULATOR, COMPLETE	EA	4	
L-109b	INSTALL L-829 CONSTANT CURRENT REGULATOR, 2.5KW, FERRORESONANT TYPE WITH IRMS AND INPUT MONITORING, COMPLETE	EA	2	
L-109c	INSTALL L-829 CONSTANT CURRENT REGULATOR, 7.5KW, FERRORESONANT TYPE WITH IRMS AND INPUT MONITORING, COMPLETE	EA	1	
L-109d	INSTALL L-829 CONSTANT CURRENT REGULATOR, 10KW, FERRORESONANT TYPE WITH IRMS AND INPUT MONITORING, COMPLETE	EA	1	
L-109e	INSTALL S-1 CUTOUT IN LOCKABLE NEMA-1 ENCLOSURE, COMPLETE	EA	4	
L-109f	INSTALL L-854 RADIO CONTROLLER IN EXISTING VAULT, COMPLETE	LS	1	
L-109g	INSTALL AIRFIELD LIGHTING CONTROL AND MONITORING SYSTEM (ALCMS), COMPLETE	LS	1	
L-110a	INSTALL 1-2" SCH 40 PVC CONDUIT DIRECT EARTH BURIED (DEB)	LF	40,000	
L-110b	INSTALL 1-2" SCH 40 PVC CONDUIT CONCRETE ENCASED (CE) IN EXISTING PAVEMENT	LF	8,750	
L-110c	INSTALL 2-2" SCH 40 PVC CONDUIT CONCRETE ENCASED (CE) IN EXISTING PAVEMENT	LF	675	
L-110d	INSTALL 1-2" SCH 40 HDPE CONDUIT DIRECTIONALLY BORED	LF	2,750	
L-115a	REMOVE L-867B JUNCTION BOX, COMPLETE	EA	4	
L-115b	INSTALL L-867E JUNCTION BOX, COMPLETE	EA	7	
L-125a	REMOVE RUNWAY/TAXIWAY EDGE LIGHT IN SOIL, COMPLETE	EA	257	
L-125b	REMOVE RUNWAY/TAXIWAY EDGE LIGHT IN EXISTING PAVEMENT, COMPLETE	EA	140	
L-125c	INSTALL L-861 LED RUNWAY EDGE LIGHT, BASE MOUNTED, IN SOIL, COMPLETE	EA	75	
L-125d	INSTALL L-861 LED RUNWAY EDGE LIGHT, BASE MOUNTED, IN EXISTING PAVEMENT, COMPLETE	EA	9	
L-125e	INSTALL L-861E LED RUNWAY THRESHOLD LIGHT, BASE MOUNTED, IN EXISTING PAVEMENT, COMPLETE	EA	16	
L-125f	INSTALL L-861T LED TAXIWAY EDGE LIGHT, BASE MOUNTED, IN SOIL, COMPLETE	EA	205	
L-125g	INSTALL L-861T LED TAXIWAY EDGE LIGHT, BASE MOUNTED, IN EXISTING PAVEMENT, COMPLETE	EA	123	
L-125h	REMOVE L-858 GUIDANCE SIGN AND CONCRETE FOUNDATION, COMPLETE	EA	41	
L-125i	INSTALL L-858 LED GUIDANCE SIGN, SIZE 1, 2 MODULE, COMPLETE	EA	11	
L-125j	INSTALL L-858 LED GUIDANCE SIGN, SIZE 1, 3 MODULE, COMPLETE	EA	17	
L-125k	INSTALL L-858 LED GUIDANCE SIGN, SIZE 1, 4 MODULE, COMPLETE	EA	4	
L-125l	INSTALL L-858 LED RUNWAY DISTANCE REMAINING SIGN, SIZE 4, COMPLETE	EA	8	
L-125m	REMOVE VASI SYSTEM, COMPLETE	EA	2	
L-125n	INSTALL L-880 LED PAPI SYSTEM, COMPLETE	EA	2	

ISSUED FOR BID

ZACHARY C. AMBARIANTZ P.E. 146546 06/04/2025

FOR AND ON BEHALF OF WOOLPERT, INC.



DES: Z.C.A.	ISSUE RECORD			
DR: L.O.B.	NO.	BY	DATE	DESCRIPTION
CH: C.L.G.	1	Z.C.A.	12/13/2024	ISSUED FOR BID
APP: S.D.C.	2	Z.C.A.	06/04/2025	ISSUED FOR ADDENDUM NO. 1

AIRFIELD LIGHTING AND REMARKING

SHEET INDEX AND
SUMMARY OF APPROXIMATE QUANTITIES

STATE PROJ. NO.
TXDOT CSJ NO.: 2501DENS

WOOLPERT PROJ. NO.
10018211.01

SHEET NAME

G002

SHEET NO.

2 of 75

A	-	AMP	OHT	-	OVERHEAD TELEPHONE
AFF	-	ABOVE FINISHED FLOOR	P	-	PHASE
AFG	-	ABOVE FINISHED GRADE	PAPI	-	PRECISION APPROACH PATH INDICATOR
ATS	-	AUTOMATIC TRANSFER SWITCH	PT	-	POINT OF TANGENCY
BC	-	BARE COPPER	PVC	-	POLYVINYL CHLORIDE CONDUIT
C	-	CONDUIT	REIL	-	RUNWAY END INDICATOR LIGHT
CCR	-	CONSTANT CURRENT REGULATOR	RGL	-	RUNWAY GUARD LIGHT
CE	-	CONCRETE ENCASED	RGS	-	RIGID GALVANIZED STEEL CONDUIT
CKT.	-	CIRCUIT	RE	-	REFER TO
CLSM	-	CONTROLLED LOW STRENGTH MATERIAL	RW	-	RUNWAY
COMM.	-	COMMUNICATION	S	-	SEWER
CONC.	-	CONCRETE	SCHD.	-	SCHEDULE
DEB	-	DIRECT EARTH BURIED	SHT.	-	SHEET
ELEC.	-	ELECTRIC/ELECTRICAL	STA.	-	STATION
EXIST., EX.	-	EXISTING	TDZ	-	TOUCH DOWN ZONE
FAA	-	FEDERAL AVIATION ADMINISTRATION	TW	-	TAXIWAY
F.O.	-	FIBER OPTIC	TYP	-	TYPICAL
GFI	-	GROUND FAULT INTERRUPTING	UE, UGE	-	UNDERGROUND ELECTRICAL
GND., G	-	GROUND	U.G.	-	UNDERGROUND
HDPE	-	HIGH-DENSITY POLYETHYLENE	UON	-	UNLESS OTHERWISE NOTED
kV	-	KILOVOLTS	UT	-	UNDERGROUND TELEPHONE
kW	-	KILOWATTS	V	-	VOLT
MALSR	-	MEDIUM INTENSITY APPROACH LIGHT SYSTEM WITH RUNWAY ALIGNMENT INDICATOR LIGHTS	VA	-	VOLT AMP
MH.	-	MANHOLE	W	-	WATT, WIRE
N.I.C.	-	NOT IN CONTRACT	W/	-	WITH
NO.	-	NUMBER	WP	-	WEATHERPROOF
OHP	-	OVERHEAD POWER	XFMR	-	TRANSFORMER

<u>LEGEND NOTES:</u>		<u>PROJECT SPECIFIC DEMOLITION NOTES</u>
①	ALL ELECTRICAL CONDUITS ARE 1-2" SCH. 40 PVC CONDUIT UNLESS IDENTIFIED OTHERWISE.	1. ALL COMPONENTS OF THE AIRFIELD LIGHTING SYSTEM OUTSIDE OF THE PROJECT AREA AND CLOSED PORTIONS OF THE AIRFIELD SHALL NOT BE DAMAGED BY THE CONTRACTOR. ANY DAMAGE TO THESE COMPONENTS WILL BE REPLACED BY THE CONTRACTOR AT NO EXPENSE TO THE SPONSOR.
②	SIZE AND NUMBER OF CONDUITS IN A DUCT BANK ARE AS INDICATED ON PLAN SHEETS.	
③	ALL L-867 JUNCTION BOXES ARE SIZE B, 12" DIA. X 24" DEEP WITH 3/8" THICK BLANK COVER, UNLESS OTHERWISE INDICATED.	2. THE CONTRACTOR SHALL REMOVE ALL WIRES AND CABLES FROM CONDUITS WHICH ARE TO BE ABANDONED. NO ADDITIONAL PAYMENT WILL BE MADE FOR REMOVAL OF WIRES AND CABLES.

1. THE PROJECT PAY ITEMS PROVIDED ARE TO BE INCCLUSIVE OF ALL WORK TO BE PERFORMED AS SHOWN IN THE CONTRACT DOCUMENTS. ALL WORK NOT IDENTIFIED WITH A SPECIFIC PAY ITEM IS TO BE CONSIDERED REQUIRED WORK TO COMPLETE THE PROJECT, AND IS TO BE INCIDENTAL TO THE COST OF PROJECT PAY ITEMS PROVIDED.
2. WHENEVER, IN THE CONTRACT DOCUMENTS, THE WORDS "PROVIDE", "INSTALL", "FURNISH AND INSTALL", OR SIMILAR WORDS ARE USED, IT SHALL BE UNDERSTOOD THAT THE INTENT OF THE CONTRACT DOCUMENT IS TO PROVIDE FOR THE CONSTRUCTION AND COMPLETION IN EVERY DETAIL THE WORK DESCRIBED. IT IS FURTHER INTENDED THAT THE CONTRACTOR SHALL FURNISH ALL LABOR, SUPERVISION, MATERIALS, EQUIPMENT, TOOLS, TRANSPORTATION, SUPPLIES, TESTING, AND INCIDENTALS REQUIRED TO COMPLETE THE WORK IN ACCORDANCE WITH THE DRAWINGS (PLANS), SPECIFICATIONS, AND TERMS OF THE CONTRACT.
3. THE CONTRACTOR SHALL OBTAIN AND PAY FOR ALL REQUIRED PERMITS, LICENSES, ETC., PRIOR TO COMMENCEMENT OF WORK. THE COST OF PERMITS, LICENSES, ETC. SHALL BE INCIDENTAL TO, AND INCLUDED IN THE BID PRICE FOR THE RESPECTIVE PAY ITEMS.
4. ALL DAMAGE TO UTILITIES OR EXISTING STRUCTURES FROM CONSTRUCTION ACTIVITIES SHALL BE IMMEDIATELY REPORTED TO THE RESIDENT PROJECT REPRESENTATIVE. THE RESIDENT PROJECT REPRESENTATIVE SHALL DETERMINE WHETHER REPAIR OR REPLACEMENT IS NECESSARY. ALL REPAIR METHODS SHALL BE SUBMITTED TO THE RESIDENT PROJECT REPRESENTATIVE FOR REVIEW AND APPROVAL PRIOR TO INITIATING THE WORK.
5. IN NEW OR EXISTING PAVEMENT ALL CONDUITS, DUCT BANKS, BASE CANS, COUNTERPOISE, GROUND CONDUCTORS, ETC. SHALL BE INSTALLED PRIOR TO PLACEMENT OF THE FINAL LIFT OF PAVEMENT.
6. AIRFIELD SIGNS PROVIDING DIRECTIONS TO CLOSED AREAS SHALL BE COVERED. ALL AREAS CLOSED TO AIRCRAFT SHALL NOT BE LIGHTED. ADEQUATE LIGHTING, IN THE OPINION OF THE RESIDENT PROJECT REPRESENTATIVE, SHALL BE PROVIDED TO DELINEATE THE ACTIVE AND CLOSED AREAS OF THE AOA. THE ABOVE ITEMS ARE CONSIDERED INCIDENTAL TO THE VARIOUS BID ITEMS.
7. THE PROJECT AREA AND CLOSED PORTION OF THE AIRFIELD SHALL BE OPERATIONAL AT THE END OF EACH WORK SHIFT AND FOR EVERY PERIOD OF LOW VISIBILITY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL TEMPORARY JUMPER AND OTHER EQUIPMENT NECESSARY TO MAINTAIN AN OPERATIONAL SYSTEM DURING CONSTRUCTION. TEMPORARY JUMPERS SHALL BE CONSIDERED INCIDENTAL TO THE VARIOUS BID ITEMS. ALL TEMPORARY JUMPERS SHALL BE INSTALLED IN CONDUIT.
8. CONTRACTOR SHALL BE REQUIRED TO PROVE TO THE SATISFACTION OF THE RESIDENT PROJECT REPRESENTATIVE THAT THE LIGHTING SYSTEM IS OPERATIONAL BEFORE LEAVING THE WORK SITE AFTER EVERY WORK SHIFT.
9. THE AIRPORT MAINTENANCE DEPARTMENT'S "LOCKOUT/TAGOUT" PROCEDURE AND NFPA 70E SHALL BE COMPLIED WITH BY THIS CONTRACTOR.
10. THE CONTRACTOR SHALL VERIFY EXISTING CONDITIONS PRIOR TO STARTING WORK.
11. EXISTING CONDUIT, DUCT BANK, CIRCUITING, AND UTILITY INFORMATION IS BASED ON "AS-BUILT" AND "RECORD" DRAWINGS AND SITE VISITS BY THE ENGINEER. THE EXISTING UTILITY LOCATIONS SHOWN ON THE PLANS ARE APPROXIMATE AND SHALL NOT BE SCALED FOR EXACT LOCATION. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO CONTACT THE APPROPRIATE UTILITY/AGENCY PRIOR TO STARTING WORK AND STAKE/MARK THE LOCATION OF ALL EXISTING UTILITIES. ANY INTERRUPTION OF AN EXISTING SYSTEM OR UTILITY SERVICE SHALL BE COORDINATED AND APPROVED BY THE AIRPORT AND THE AUTHORITY, AGENCY, OR UTILITY HAVING JURISDICTION PRIOR TO STARTING WORK.
12. ALL REMOVED FIXTURES, BASEPLATES, SPACERS, SIGNS, TRANSFORMERS, ETC. SHALL BE TURNED OVER TO THE AIRPORT'S MAINTENANCE DEPARTMENT. ALL REMOVED CABLES, DUCT, BASECANS, CONCRETE PADS, MANHOLES, ETC. SHALL BE PROPERLY AND LEGALLY DISPOSED OF OFF THE SITE BY THE CONTRACTOR. ALL ITEMS TO BE RELOCATED SHALL BE REMOVED FIRST AND PROPERLY STORED FOR FUTURE INSTALLATION.

- PLACE IF THEY ARE NOT DISTURBED DURING CONSTRUCTION ACTIVITIES. ANY CONDUIT, ELECTRIC LINES, OR DUCT BANK ENCOUNTERED DURING CONSTRUCTION SHALL BE REMOVED. NO PAYMENT SHALL BE MADE FOR REMOVAL OF CONDUITS, DUCT BANKS, AND ELECTRIC LINES.
- THE CONTRACTOR SHALL REMOVE ALL ABANDONED/UNUSED CONDUCTORS AND CABLES FROM EXISTING CONDUITS IN WHICH NEW CONDUCTORS OR CABLES ARE INSTALLED. NO ABANDONED CONDUCTORS OR CABLES SHALL BE LEFT IN PLACE AT THE COMPLETION OF THE PROJECT. NO PAYMENT WILL BE MADE FOR REMOVAL OF EXISTING CONDUCTORS OR CABLES. ALL REMOVED CONDUCTORS AND CABLES SHALL BE THE PROPERTY OF THE CONTRACTOR.

STATE OF TEXAS

Zachary C. Ambariantz

ZACHARY C. AMBARIANTZ

146546


06/04/2025

PROFESSIONAL ENGINEER

ZACHARY C. AMBARIANTZ P.E. 146546 06/04/2025

FOR AND ON BEHALF OF WOOLPERT, INC.



DES: Z.C.A.	ISSUE RECORD			
	NO.	BY	DATE	DESCRIPTION
DR: L.O.B.	1	Z.C.A	12/13/2024	ISSUED FOR BID
		Z.C.A.	06/04/2025	ISSUED FOR ADDENDUM NO. 1
CH: C.L.G.				
APP: Z.C.A				

ELECTRICAL LEGEND AND GENERAL NOTES

STATE PROJ. NO.
TXDOT CSJ NO.: 2501DENS

WOOLPERT PROJ. NO.
10018211.01

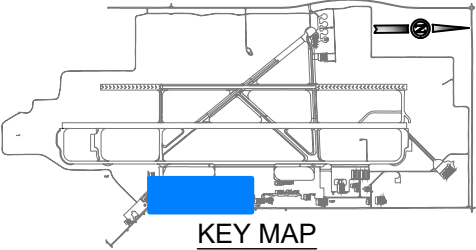
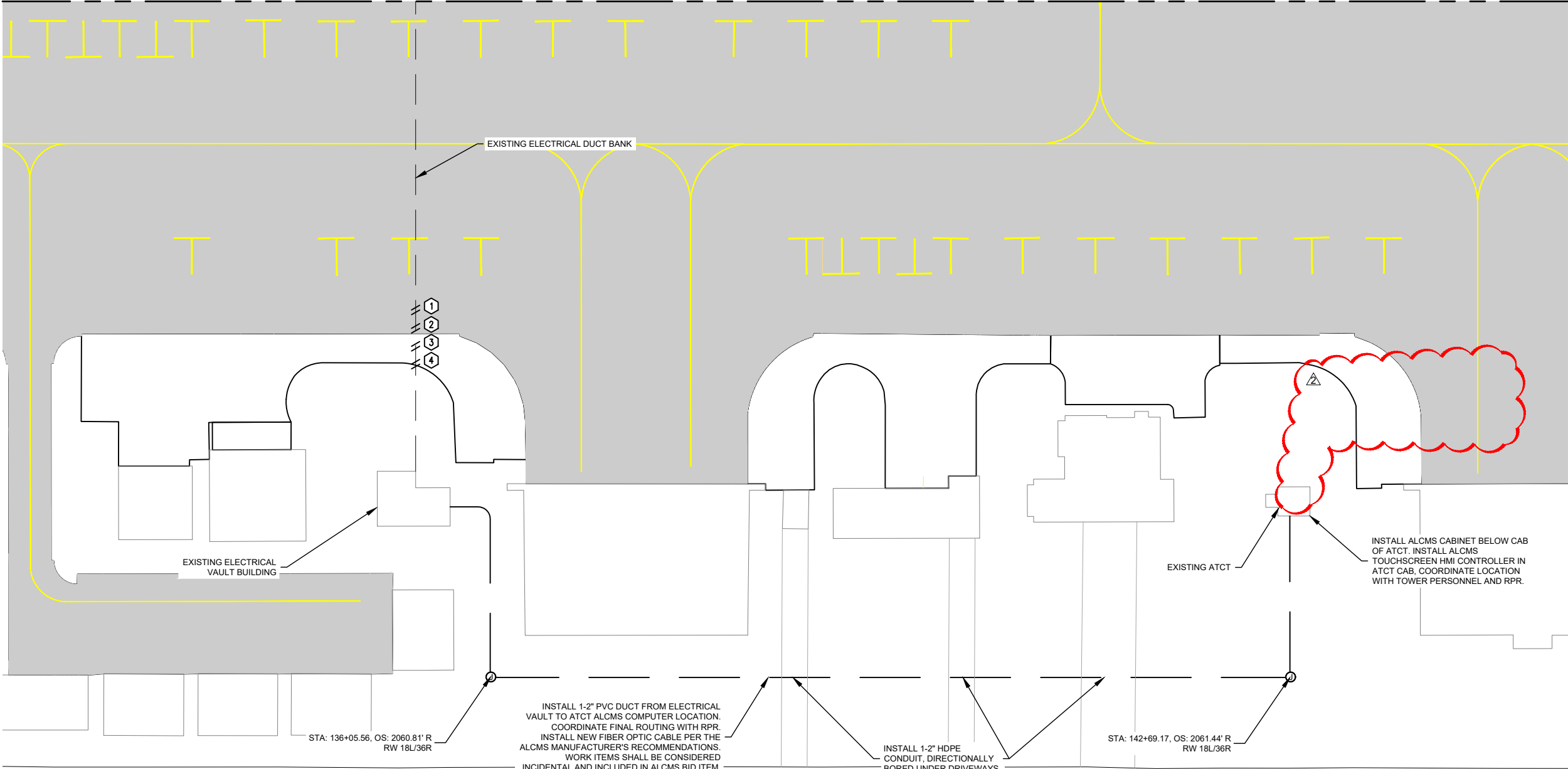
SHEET NAME

E001

SHEET NO.

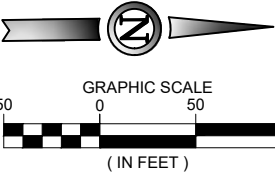
50 of 75

MATCHLINE OFFSET 1500' RT. - SEE SHEET E211



- NOTES
- SEE SHEET E001 FOR ELECTRICAL LEGEND AND GENERAL NOTES.
 - SEE SHEETS C101-C121 FOR ELECTRICAL AND PAVEMENT MARKING DEMOLITION.
 - SEE SHEETS E200-E216 FOR ELECTRICAL LAYOUT.
 - SEE SHEETS E250-E255 FOR ELECTRICAL DETAILS.
 - CONTRACTOR SHALL PROTECT ALL AIRFIELD ELECTRICAL AND LIGHT SYSTEMS DURING CONSTRUCTION.
 - CONTRACTOR SHALL LOCATE AND PROTECT ALL EXISTING UTILITIES.
 - INSTALL 2-2" PVC DUCT (CE) IN EXISTING PAVEMENT WITH 2-1/C #8 AWG L-824C 5KV CABLES. INPAVEMENT FIXTURE LIGHT BASE SHALL HAVE 2 HUBS THAT ARE STACKED VERTICALLY ON THE SAME SIDE OF THE LIGHT BASE TO ACCOMMODATE TWO CONDUITS.

CIRCUIT LEGEND	
①	RUNWAY EDGE LIGHTS
②	TAXIWAY A LIGHTS
③	RUNWAY 18L PAPI
④	RUNWAY 36R PAPI



ISSUED FOR BID

ZACHARY C. AMBARIANTZ P.E. 146546 06/04/2025

FOR AND ON BEHALF OF WOOLPERT, INC.

DES: Z.C.A.	ISSUE RECORD			
	NO.	BY	DATE	DESCRIPTION
DR: L.O.B.	1	Z.C.A.	12/13/2024	ISSUED FOR BID
CH: C.L.G.	2	Z.C.A.	06/04/2025	ISSUED FOR ADDENDUM NO. 1
APP: Z.C.A.				

AIRFIELD LIGHTING AND REMARKING	ELECTRICAL GEOMETRY PLAN ELECTRICAL VAULT AND ATCT		SHEET NAME E216
	STATE PROJ. NO. TXDOT CSJ NO.: 2501DENS	WOOLPERT PROJ. NO. 10018211.01	SHEET NO. 67 of 75

Printed June 5, 2025 @ 11:13 AM by: Ambariantz, Zach
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Pre-Bid Meeting Sign In

Meeting Date / Location:	North Texas Regional Airport Terminal Building, 4700 Airport Drive, Denison, TX 75020	Project Name:	Airfield Lighting and Remarking Project
Time:	3:00 p.m. (local time)	Project #:	2501DENS

[illegible]



Meeting Agenda: Pre-Bid Conference

Project No. 2501DENSEN

Date: Monday, May 19, 2025, 1:00 P.M. (Local Time)

Location: North Texas Regional Airport Terminal Building, 4700 Airport Drive, Denison, TX 75020

Attendees: See Sign-In Sheet

Agenda:

1. RECORDING OF ATTENDEES

- A. Recording of attendees, firm represented, address and phone number.
- B. Attendance & plan holder's list will be sent to all attendees.

2. PROJECT DESCRIPTION & INTRODUCTIONS

- A. Project Scope of Work.
 - I. Schedule I:
 - (1) Phase 1A: Runway lighting, remarking, PAPIs
 - (2) Phase 1B: TW A, F remarking, lighting.
 - (3) Phase 2: Parallel TW Remarking, lighting.
 - (4) Phase 3: TW E Remarking, lighting, Apron remarking
 - (5) Phase 4: TW B Remarking, lighting, apron remarking
 - (6) Major Work to be completed: Erosion control measures, delineate wetland areas, clear and grub, electrical removals, existing pavement marking removals, trenching and excavation for electrical conduits, signs and light fixtures, permanent paint.
- B. Airport Sponsor.
 - I. Bill Magers – Airport Manager.
- C. Airport Engineering. (Woolpert, Inc.)
 - I. Sebastian De Castro, Project Manager.
 - II. Zachary Ambariantz, Electrical Engineer
- D. Schedule:
 - I. Bidder hereby agrees to commence work under this contract on or before a date to be specified in a written "Notice to Proceed" and to fully complete the project within seventy (130) calendar days thereafter. Of the total seventy (130) calendar days, sixty (60) calendar days are for the procurement of materials, ten (10) calendar days are for staging, and sixty (60) calendar days are for on-site construction.
 - II. Phase 1A: 60 Calendar Days
 - III. Phase 1B: 60 Calendar Days
 - IV. Phase 2: 60 Calendar Days
 - V. Phase 3: 5 Calendar Days
 - VI. Phase 4: 5 Calendar Days
- E. Major Work Items.

Schedule I			
C-105a	MOBILIZATION (10% MAXIMUM)	LS	1
P-620a	REFLECTORIZED PAVEMENT MARKING (WHITE & YELLOW - RWY, TWY A, B, E, F, APRON)	SF	200,000
P-620b	NON-REFLECTORIZED PAVEMENT MARKING (BLACK - RWY, TWY A, B, E, F, APRON)	SF	131,000
P-620c	EXISTING PAVEMENT MARKING REMOVAL	SF	380,650
L-101a	REMOVE AIRPORT BEACON, COMPLETE	EA	4
L-101b	INSTALL LED L-801A AIRPORT BEACON, COMPLETE	EA	4
L-107a	REMOVE EXISTING PRIMARY WIND CONE AND SEGMENTED CIRCLE MARKER SYSTEM, COMPLETE	EA	1
L-107b	INSTALL L-806 LED WIND CONE ON NEW FOUNDATION, COMPLETE	EA	2
L-107c	INSTALL L-807 LED WIND CONE ON NEW FOUNDATION, COMPLETE	EA	1
L-107d	INSTALL SEGMENTED CIRCLE MARKER SYSTEM, COMPLETE	EA	1
L-108a	INSTALL #8 AWG, L-824C, 5000V, WIRE	LF	95,000
L-108b	INSTALL #6 AWG, BARE COPPER COUNTERPOISE INCLUDING GROUND RODS AND TERMINATIONS	LF	50,000
L-109a	REMOVE CONSTANT CURRENT REGULATOR, COMPLETE	EA	4
L-109b	INSTALL L-829 CONSTANT CURRENT REGULATOR, 4KW, FERRORESONANT TYPE WITH IRMS AND INPUT MONITORING, COMPLETE	EA	2
L-109c	INSTALL L-829 CONSTANT CURRENT REGULATOR, 7.5KW, FERRORESONANT TYPE WITH IRMS AND INPUT MONITORING, COMPLETE	EA	1
L-109d	INSTALL L-829 CONSTANT CURRENT REGULATOR, 10KW, FERRORESONANT TYPE WITH IRMS AND INPUT MONITORING, COMPLETE	EA	1
L-109e	INSTALL S-1 CUTOUT IN LOCKABLE NEMA-1 ENCLOSURE, COMPLETE	EA	4
L-109f	INSTALL L-854 RADIO CONTROLLER IN EXISTING VAULT, COMPLETE	LS	1
L-109g	INSTALL AIRFIELD LIGHTING CONTROL AND MONITORING SYSTEM (ALCMS), COMPLETE	LS	1
L-110a	INSTALL 1-2" SCH 40 PVC CONDUIT DIRECT EARTH BURIED (DEB)	LF	40,000
L-110b	INSTALL 1-2" SCH 40 PVC CONDUIT CONCRETE ENCASED (CE) IN EXISTING PAVEMENT	LF	8,750
L-110c	INSTALL 2-2" SCH 40 PVC CONDUIT CONCRETE ENCASED (CE) IN EXISTING PAVEMENT	LF	675
L-110d	INSTALL 1-2" SCH 40 HDPE CONDUIT DIRECTIONALLY BORED	LF	2,750
L-115a	REMOVE L-867B JUNCTION BOX, COMPLETE	EA	4
L-115b	INSTALL L-867E JUNCTION BOX, COMPLETE	EA	7
L-125a	REMOVE RUNWAY/TAXIWAY EDGE LIGHT IN SOIL, COMPLETE	EA	171
L-125b	REMOVE RUNWAY/TAXIWAY EDGE LIGHT IN EXISTING PAVEMENT, COMPLETE	EA	226
L-125c	INSTALL L-861 LED RUNWAY EDGE LIGHT, BASE MOUNTED, IN SOIL, COMPLETE	EA	75
L-125d	INSTALL L-861 LED RUNWAY EDGE LIGHT, BASE MOUNTED, IN EXISTING PAVEMENT, COMPLETE	EA	9
L-125e	INSTALL L-861E LED RUNWAY THRESHOLD LIGHT, BASE MOUNTED, IN EXISTING PAVEMENT, COMPLETE	EA	16
L-125f	INSTALL L-861T LED TAXIWAY EDGE LIGHT, BASE MOUNTED, IN SOIL, COMPLETE	EA	205
L-125g	INSTALL L-861T LED TAXIWAY EDGE LIGHT, BASE MOUNTED, IN EXISTING PAVEMENT, COMPLETE	EA	123
L-125h	REMOVE L-858 GUIDANCE SIGN AND CONCRETE FOUNDATION, COMPLETE	EA	41
L-125i	INSTALL L-858 LED GUIDANCE SIGN, SIZE 1, 2 MODULE, COMPLETE	EA	11
L-125j	INSTALL L-858 LED GUIDANCE SIGN, SIZE 1, 3 MODULE, COMPLETE	EA	17
L-125k	INSTALL L-858 LED GUIDANCE SIGN, SIZE 1, 4 MODULE, COMPLETE	EA	4
L-125l	INSTALL L-858 LED RUNWAY DISTANCE REMAINING SIGN, SIZE 4, COMPLETE	EA	8
L-125m	REMOVE VASI SYSTEM, COMPLETE	EA	2
L-125n	INSTALL L-880 LED PAPI SYSTEM, COMPLETE	EA	2

BID OPENING DATE & TIME

- F. Date: June 12, 2025, 2:00 pm (Local Time)
Mailed to: Kelle Chancey, TxDOT Aviation Division, 6230 E. Stassney Lane, 2nd Floor, Austin, Texas 78744. The delivered package must be clearly marked as "Bid Proposal".
- G. Opened at: TxDOT Stassney Campus
6230 E Stassney Lane
Austin, TX
- H. Bid security: 2% of bid amount
- I. Bid proposal: TxDOT bid form

3. DBE GOALS

- A. X% of Contract Amount. – Refer to Eli Lopez
- B. Turned in no later than 5 days after opening

4. QUALIFICATION OF BIDDERS

- A. Qualifications shall be furnished per Section 20-02.

5. CRITICAL CONTRACT DATES

- A. Notice of Award: TBD
- B. Notice to Proceed: TBD

6. BONDING

- A. Payment Bond: 100% of Bid Amount.
- B. Performance Bond: 100% of Bid Amount.

7. INSURANCE REQUIREMENTS

- A. Aviation Division General Construction Contract Provisions, volume dated February 2013.

8. FEDERAL WAGE RATES (DAVIS BACON ACT)

- A. Federal wage rates are required for this project. Refer to Part 6.
- B. Contractor and all Subcontractors are required to submit certified payrolls.

9. ENGINEER/RESIDENT PROJECT REPRESENTATIVE (RPR) FIELD OFFICE

- A. Not Required. Refer to Part 4, Section 60-05 for more information.

10. CONSTRUCTION SAFETY AND PHASING PLAN (CSPP)

- A. The Contractor shall review and adhere to the CSPP prepared by the Engineer.
- B. The Contractor shall submit a Safety Plan Compliance Document (SPCD) (Refer to Part 7) to the engineer and airport operator for approval PRIOR to the issuance of Notice to Proceed as required by FAA Advisory Circular (AC) 150/5370-2G "Operational Safety on Airports During Construction".

11. ENVIRONMENTAL REQUIREMENTS

- A. Discuss all project specific requirements for environmentally sensitive areas. Discuss protocols for working in and around these sensitive areas. Adherence to these requirements will be strictly enforced.
- B. All changes to haul routes, staging areas, material storage areas, borrow/waste areas, and limits of disturbance will require approval by FAA Environmental.

12. LIQUIDATED DAMAGES

- A. Bidder agrees to pay as liquidated damages the sum of \$1,000 for each calendar day to complete the work beyond the allotted time or as extended by an approved Change Order or Supplemental Agreement.

13. MISCELLANEOUS

- A. Airport Security – Badging is not required for this project.
- B. Airport Driving – no safety course required.
- C. Review Construction Safety Overall Phasing Plan G050 – note the Staging Area & Airport Access gate.
- D. Review Construction Layout 4 Phases G052 thru G055 – the contractor shall install flasher barricades around the perimeter of the construction site bordering the airfield to isolate the contractor from aircraft.
- E. Contractor shall stay within project boundaries.
- F. Radios for the project to be provided by Contractor. See Part 7 CSPP. The Air Traffic Control Tower can assist and alert the contractor as necessary.
- G. State Sales & Use Tax Exempt – not exempt.
- H. Quality Assurance testing will be completed by QA Firm under the direction of the Engineer. The Quality Control testing and Quality Assurance testing shall be completed by separate firms.
- I. Construction Management Plan submitted by Contractor.
- J. Water availability –To discuss with Scott Ford.
- K. Questions will only be taken via written format to the Project Manager Until June 4th, when the final addendum is due.

14. ADDENDUM UPDATE

15. QUESTIONS / ANSWERS

16. PROJECT SITE TOUR