

June 9, 2023

To: Plan Holders for Improvements to the
Oxnard Airport
Oxnard, California
AIP Project No. 3-06-0179-043-2023
County of Ventura DOA Spec. No. OXR 23-03, Project No. OXR-150

Transmitted herewith is Addendum **No. 1** to the Issued for Bid Contract Documents, Specifications and Plans dated May 25, 2023 for Improvements to the Oxnard Airport.

Schedule I
Reconstruction of Taxiway F

Sincerely,

Jviation, a Woolpert Company



Matt Gilbreath, P.E.
Project Manager

**ADDENDUM NO. 1 TO
CONTRACT DOCUMENTS, SPECIFICATIONS AND PLANS
FOR IMPROVEMENTS TO THE
OXNARD AIRPORT
OXNARD, CALIFORNIA
AIP PROJECT NO. 3-06-0179-043-2023
COUNTY OF VENTURA DOA SPEC. NO. OXR 23-03, PROJECT NO. OXR-150**

To All Bidders: You are requested to make all changes and/or additions contained in this addendum to the Bidding Documents. Failure to acknowledge this Addendum in Proposal shall result in rejection of bid. Bidders are informed that the above referenced Contract Documents, Specifications and Plans are modified as follows as of June 9, 2023:

1. PRE-BID CONFERENCE

The meeting agenda and sign-in sheet from the Pre-Bid Conference held on June 8, 2023 are included in this addendum.

2. QUESTIONS

- 1) Question: What is the engineer's estimate for this project?

Answer: The engineer's estimate will not be provided before the bid opening.

**** END OF ADDENDUM NO. 1 ****

Meeting Agenda (Minutes)

Pre-Bid Conference

AIP Project No. 3-06-0179-043-2023

Airport: Oxnard Airport

Project Name: Reconstruction of Taxiway F

County of Ventura Department of Airports (DOA) Spec. No. 23-03, Project No. OXR-150

Date: Thursday, June 8, 2023, 10:00 A.M. PST

Location: ARFF Shelter, 2889 W. 5th St, Oxnard, CA 93030

1. RECORDING OF ATTENDEES

- A. Recording of attendees, firm represented, address and phone number.
- B. Attendees list will be sent to all attendees with Addendum No. 1.

2. INTRODUCTIONS & PROJECT DESCRIPTION

- A. County of Ventura Department of Airports Representatives
 - I. Keith Freitas, Director of Airports
 - II. Dave Nafie, Deputy Director of Airports
 - III. Erin Powers, Projects Administrator
- B. Airport Engineering – Jviation, a Woolpert Company
 - I. Matt Gilbreath, Project Manager
 - II. JD Ingram, Project Director
 - III. Amanda Gross, Project Engineer
- C. Project Schedules (Note: Work to be completed between 0700 to 1900).

SCHEDULE	SCHEDULE NAME	PHASE	CONSTRUCTION TIME
Schedule I	Reconstruction of Taxiway F	Preconstruction Mobilization	10 Calendar Days (2 Night Closures)
		Phase 1	28 Calendar Days
		Phase 2	32 Calendar Days
		Phase 3	20 Calendar Days

- I. Basis of Award (Refer to Division 1-13, Section 12)
 - a. It is the intention of the County to award the contract to the bidder submitting the lowest responsible and responsive bid (based on unit prices and estimated quantities) within the funds available for work included in the base bid which consists of Schedule I. Bidders must offer pricing on all items in all Schedules. The project award is contingent on the availability of funding.
 - b. The maximum construction time allowed for Schedule I is **90 Calendar Days**.
- II. Liquidated Damages (Refer to Division 3-40, Section 80-08)
 - a. For each calendar day, as specified in the contract, that any work remains uncompleted after the contract time (including all extensions and adjustments as provided in the subsection 80-07 titled *Determination and Extension of Contract Time*) the sum specified in the contract and proposal as liquidated damages will be deducted from any money due or to become due the Contractor or his or her surety.
 - b. **Pre-Construction Mobilization:** \$500.00/15 minutes which consists of time for the FAA, Airport Staff, Construction Manager, Resident Engineer, and non-use for the 2 Calendar Days of night closures, \$500/Calendar Day for the phase remainder.

- c. **Schedule I:** \$6,150/calendar day(s) which consists of \$2,500/calendar day(s) for non-use, \$1,950/calendar day(s) for Construction Manager, and \$1,700/calendar day(s) for Resident Engineer.

III. Notable Work Items:

Schedule I			
Item No.	Description	Units	Quantity
P-101a	Demolish Asphalt Pavement	SY	90,000
P-152a	Unclassified Excavation and Haul-Off	CY	15,030
P-152d	Unclassified Excavation and Stockpile Onsite	CY	7,510
P-155a	Lime Treated Subgrade, 16-Inch Depth	SY	63,500
P-156a	Cement Treated Subgrade, 16-Inch Depth	SY	63,500
P-209a	Crushed Aggregate Base Course	CY	11,100
P-401a	Asphalt Surface Course (PG 70-10)	TON	15,100
P-620b	Marking, 2 Coats with Beads (All Colors)	SF	58,300
D-701a	18-inch RCP, Class IV, Complete	LF	570
D-705a	Underdrain Pipe, 6-Inch	LF	9,300
L-110a	Install 1-2" SCH. 40 PVC Conduit, Direct Earth Buried (DEB)	LF	7,400
L-110b	Install 1-2" SCH. 40 PVC Conduit, Concrete Encased (CE)	LF	6,600
L-115a	Install Electrical Pullbox, 4'x4', Aircraft Rated	EA	4
L-125a	Install LED L-861T Taxiway Edge Light, Complete	EA	70
L-125b	Install In-Pavement LED L-852T Taxiway Edge Light, Complete	EA	66
L-125d	Reinstall LED L-858 Guidance Sign, 1,3 Module on New Foundation	EA	8

3. BID OPENING DATE & TIME

- A. Bid proposals will be opened and publicly read at the time indicated in the call for Bids unless the Bid opening has been delayed or canceled. Bidders, their authorized agents, and other interested parties are invited to attend the ~~virtual~~ bid opening. Refer to Section 9 Identification of Bid (Proposal) in the Instruction to Bidders for more information.
- B. Bids must be returned in a sealed envelope and addressed to County of Ventura: Department of Airports, Airport Administration Office Public Counter at the address below. All portions of the bid (e.g. bid bonds) must be delivered and completed by the due date and time.
- C. Late bids will not be accepted or considered.
- D. Due Date: Tuesday, June 27, 2023 at 10:00 A.M. (PST)
- E. Opening Date: Tuesday, June 27, 2023 at 10:00 A.M. (PST)
- F. Delivered to: Public Counter, 2nd Floor Lobby
555 Airport Way, Suite B
Camarillo, CA 93010
- G. Bid security: 5% of bid amount – Division 1-14, Item 19.
- H. Bid proposal: Division 2 (print, fill out, and submit all Division 2 pages).

4. DBE GOALS

- A. 6.2% of Contract Amount. Acceptable DBE firms are not limited to California based firms.

5. COMMUNICATIONS DURING THE PRE-BID PROCESS

- A. All questions must be forwarded in writing to Matt Gilbreath at Jviation, a Woolpert Company via email to Matt.Gilbreath@woolpert.com.
- B. Responses to questions will be sent out to all bidders via an Addendum.
- C. Last day for questions is June 15, 2023 no later than 4:00 p.m. local time.

6. QUALIFICATION OF BIDDERS

- A. Qualifications shall be furnished per Division 2-43 and Division 3-9, Section 20-02. Each bidder shall furnish the Owner satisfactory evidence of his or her competency and financial responsibility to perform the proposed work.
- B. Proposers or Bidders shall have a Class A California Contractors license at the time of award.
- C. Per Public Works Contractor Registration Law (SB 854), Contractors and Subcontractors who intend to Propose (Bid) or perform work on this Project must be registered with the Department of Industrial Relations at the time of Contract award. Information is available at <https://www.dir.ca.gov/faqlist.html>.
- D. Contractor should be aware of the requirement to include certain federal clauses in any of their subconsultant/ lower tier contracts.

7. CRITICAL CONTRACT DATES

- A. Notice to Proceed: TBD (Anticipated in early 2024)
- B. Project Time: 90 Calendar Days
- C. Agency is allowed 120 Calendar Days to award a contract.
- D. Refer to Division 4-85, Item SP-107 Scheduling of Work for more information.

8. BONDING

- A. Payment Bond: CVSS Appendix G, 100% of Bid Amount.
- B. Performance Bond: CVSS Appendix G, 100% of Bid Amount.

9. INSURANCE REQUIREMENTS

- A. Refer to Section 7-4 of the *County of Ventura Standard Specifications* for insurance requirements. Liability Insurance Class Required per VCSS-DOA Section 7-4.2: **L-D**

10. WAGE RATES (DAVIS BACON ACT)

- A. The higher of either the State or Federal wage rates must be paid to employees for this project. Refer to Division 6.
- B. Contractor and all Subcontractors are required to submit certified payrolls.

11. ENGINEER'S FIELD OFFICE

- A. Required. Refer to Division 3-27, Section 60-05 for more information.

12. CONSTRUCTION SAFETY AND PHASING PLAN (CSPP)

- A. Construction Safety and Phasing Plan (CSPP) – Refer to Division 5
- B. The Contractor shall review and adhere to the CSPP prepared by the Engineer.
- C. The Contractor shall submit a Safety Plan Compliance Document (SPCD) (Refer to Division 1-16, Item 23, Division 3-38 Section 80-04.1, and Division 4-59 Item SP-100) to the engineer and airport operations 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."

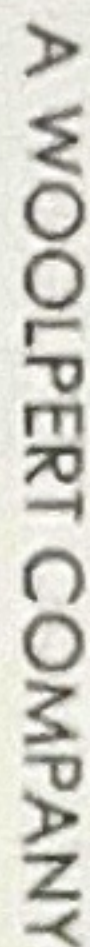
13. CONSTRUCTION REQUIREMENTS

- A. Contractor Access and Staging Areas
 - a. Review Construction Safety Overall Phasing Plan (Sheet G051) – Discuss contractor staging area, gate access, and fire hydrant location.
 - b. Review Construction Safety and Phasing Plan (Sheet G050 to G055) – Discuss phases of work and Contractor access.
 - c. Contractor shall stay within phase/project boundaries.

- B. Safety and Security
 - a. Safety Notes and Details (Sheet G050) – Discuss safety, security, and airport operational requirements. Three (3) Lighted Runway Closure Markers to be supplied by Contractor.
 - b. Contractor shall maintain gate guards at all times during construction operations when the access gate is left open.
 - c. Key construction superintendents and any other personnel deemed necessary by the Airport shall be required to complete the driver's construction training and application to obtain an electronic entry card for gate access. The designated construction personnel will be responsible for escorting non-trained construction personnel who will be working within the airfield environment.
 - d. Radios for the project to be supplied by the Contractor. See Division 4-64, SP-100-1.15.
 - e. Radio Frequencies: Oxnard Ground – 121.9, Oxnard Tower – 134.95, CTAF – 134.95
- C. Environmental Measures
 - a. Storm Water Pollution Prevention Plan (SWPPP): A SWPPP is required to be developed as part of this contract. Requirements are listed in the Project Specific Requirements of the specifications, Item SP-102.
 - b. Dust Control: Dust control shall be maintained for the duration of construction activities.
- D. Material Testing
 - a. Quality Assurance by **Engineer** – TBD
 - b. Quality Control by **Contractor** shall not be same firm as QA - The Contractor shall establish a Contractor Quality Control Program (CQCP) in accordance with Item C-100 (Division 3-51) & Division 4-39, Item 5.
 - c. The Contractor Quality Control Program (CQCP) must be approved before construction begins.
- E. Survey
 - a. Survey requirements (Division 3-21, Section 50-07, Division 4-43, Item 18, and SP-100-1.6 Lines, Grades, and Survey Control).
- F. Specifications
 - a. The Ventura County Standard Specifications includes additional provisions as required by the County of Ventura. In the event of a conflict, the County's Standard Specifications, Section 2.5.2, establishes order of precedence.
 - b. FAA Construction Specifications, FAA Advisory Circular 150/5370-10H, is being utilized for this project.
 - c. Mobilization Item C-105a is capped at a maximum of 10%.
 - d. Construction Management Plan (CMP) is required for this project per Division 4-43, Item 19, to be prepared by the Engineer and includes the Contractor's CQCP.
 - e. Partnering Workshop Requirements are listed in the Project Specific Requirements of the specifications, Item SP-108.
- G. Buy America Requirements
 - a. Manufactured goods and steel are required to meet Buy America Requirements of Title 49 U.S.C. Section 50101.
 - b. The FAA maintains a list of equipment that has received waivers from the Buy America preference on their website at: <http://www.faa.gov/airports/aip/buy-american/>.

14. SITE VISIT

- A. There will be an escorted, vehicular site visit following the pre-bid meeting at the Oxnard Airport.
- B. Each contractor will be allowed 1 vehicle with up to 2 occupants on-site during this time period.
- C. Contractors wishing to attend shall meet at 2889 W 5th St., Oxnard, CA 93030. Vehicles will be under continuous escort, and no questions will be answered during the escort.



Pre-Bid Meeting Sign In

Meeting Date / Location: June 8, 2023 / ARFF Shelter, Oxnard Airport, 2889 W 5th St, Oxnard, CA 93030

Project Name: Reconstruction of Taxiway F

Time: 10:00 AM

Project #: AIP 3-06-0179-043-2023 / County of Ventura DOA Spec. OXR No. 23-03

DOA Project No. OXR-150

Name	Company	Telephone No.	E-mail
✓ Amanda Gross	aviation, a Woolpert Company	720-454-2076	amanda.gross@woolpert.com
✓ Matt Gilbreath	aviation, a Woolpert Company	720-951-5317	matt.gilbreath@woolpert.com
✓ Erin Powers	County of Ventura	805-388-4205	erin.powers@ventura.org
Dave Nafie	County of Ventura	805-388-4201	dave.nafie@ventura.org
Keith Freitas	County of Ventura		keith.freitas@ventura.org
Carmen Jolley	Security Paving Co.	818.362.9200	Estimote@SecurityPaving.com
Kenny Bears	Granite Granite	661 336 8366	kenny-bears@gcinc.com
Robert Sainsbury	Viola, Inc.	885 381-1257	Robert.Sainsbury@GCInc.com
Sean Mahan	Rein-for Road	(805) 487-3971	estimating@viola-inc.com
Jason Burt		805-331-0091	jburton@rein-for-road.com

June 20, 2023

To: Plan Holders for Improvements to the
Oxnard Airport
Oxnard, California
AIP Project No. 3-06-0179-043-2023
County of Ventura DOA Spec. No. OXR 23-03, Project No. OXR-150

Transmitted herewith is Addendum **No. 2** to the Issued for Bid Contract Documents, Specifications and Plans dated May 25, 2023 for Improvements to the Oxnard Airport.

Schedule I
Reconstruction of Taxiway F

Sincerely,

Jviation, a Woolpert Company



Matt Gilbreath, P.E.
Project Manager

**ADDENDUM NO. 2 TO
CONTRACT DOCUMENTS, SPECIFICATIONS AND PLANS
FOR IMPROVEMENTS TO THE
OXNARD AIRPORT
OXNARD, CALIFORNIA
AIP PROJECT NO. 3-06-0179-043-2023
COUNTY OF VENTURA DOA SPEC. NO. OXR 23-03, PROJECT NO. OXR-150**

To All Bidders: You are requested to make all changes and/or additions contained in this addendum to the Bidding Documents. Failure to acknowledge this Addendum in Proposal shall result in rejection of bid. Bidders are informed that the above referenced Contract Documents, Specifications, and Plans are modified as follows as of June 20, 2023:

1. CONTRACT DOCUMENTS/SPECIFICATIONS

Bid Schedule in the Contract Documents – The Bid Schedule has been updated per the Summary of Approximate Quantities table on Sheet G002 that was issued with this addendum. The bid proposal, Division 2-47 through 2-49, has been reissued with the change.

Justification: An updated Bid Schedule has been reissued to account for several updated items and quantities.

Technical Specification L-115 ELECTRICAL MANHOLES AND JUNCTION STRUCTURES: – Under Section 110-5.1 Basis of Payment, the items shall now read,

“Item L-115a	Install FAA Electrical Pullbox, 4’x4’, Aircraft Rated – per each
Item L-115b	Install NON-FAA Electrical Pullbox, 3’x3’, Aircraft Rated – per each
Item L-115c	Install L-867B Junction Box, Complete – per each”

The specification page has been reissued with the change.

Justification: The electrical pullboxes were itemized per FAA and NON-FAA pullboxes.

Technical Specification L-125 INSTALLATION OF AIRPORT LIGHTING SYSTEMS: – Under Section 125-5.1 Basis of Payment, the following bid item will be added,

“Item L-125e Remove and Reinstall Unlighted L-858 Billboard Type Sign, on New Foundation, Complete”

The specification page has been reissued with the change.

Justification: A non-lighted sign will be removed and reinstalled during the project.

2. PLAN SET

Sheet G002, INDEX OF DRAWINGS AND SUMMARY OF APPROXIMATE QUANTITIES. The quantities for items L-115a, L-115b, and L-125e were updated in the Summary of Approximate Quantities.

Justification: The quantities were updated for the items that were added to the project.

Sheet E102, ELECTRICAL DEMOLITION PLAN STA. 124+00 TO STA. 137+00 RUNWAY 7/25. A note was added showing the demolition of the 5-2" PVC Duct within the pavement demo limits.

Justification: This duct bank will be demolished during the project.

Sheet E200, ELECTRICAL LAYOUT PLAN STA. 98+00 TO STA. 111+00 RUNWAY 7/25. The reinstallation of an unlighted guidance sign was added to the plans.

Justification: The sign will be removed and reinstalled due to the change in pavement geometry.

Sheet E202, ELECTRICAL LAYOUT PLAN STA. 124+00 TO STA. 137+00 RUNWAY 7/25. The callouts for the pullboxes were updated to show the FAA and NON-FAA electrical pullboxes.

Justification: The FAA and NON-FAA pullboxes are different sizes.

Sheet E251, ELECTRICAL DETAILS. Detail 6 was added to the sheet to show the NON-FAA Pullbox.

Justification: The FAA and NON-FAA pullboxes are different sizes.

Sheet E252, ELECTRICAL DETAILS. Detail 4 was added to the sheet to show the reinstallation of the unlighted billboard sign.

Justification: The unlighted sign will be removed and reinstalled on a new foundation.

Sheet E253, ELECTRICAL DETAILS. Notes were added to Detail 1, Handhole Detail.

Justification: The FAA handholes shall be aircraft rated, and dimensions were added.

3. CONTRACTOR QUESTIONS

- 1) Question: Is Division 2-11 (Subcontractor/Material List), intended for subcontractors that will be used on the project or all subcontractor/suppliers quoting this project? If it is intended for all subcontractors/suppliers quoting this project, where should the prime contractor list selected firms?

Answer: The bidder shall provide information on all subcontractors/material suppliers bidding or quoting on subcontracts for this project on the "Subcontractor/Material Supplier List" in Division 2-11 with the bid submittal. The bidder shall reproduce the Division 2-12 form for additional listings needed beyond the length of the form.

- 2) Question: Can Division 2-15 (DBE Participation Form), be completed and submitted at a later date?

Answer: No, Division 2-15 (DBE Participation Form) must be completed and submitted at bid opening.

- 3) Question: Division 2-29, 2-30, 2-31, 2-32, and 2-33, require information that will be unknown at the time of bid closing. Obtaining the information from subcontractors to fill out these forms will be extremely difficult. Can these 5 forms be completed and submitted at a later date?

Answer: All Division 2 forms should be signed and submitted with the bid proposal, with as much information as possible at that time.

- 4) Question: Can the bid schedule be modified so we don't have to enter the unit price in words. Entering the unit price in words makes it very difficult to handle last minute changes from our sub-contractors. The space allotted on the bid schedule is also not sufficient for writing in large unit prices.

Answer: No, the unit prices must be entered both in written words and numbers.

- 5) Question: I'm confused by the quantities for the excavation off-haul (P-152a) and excavation on-site quantities (P-152d). Does the quantity of 15,030 CY for P-152a include the quantity of P-152d, 7,510 CY? Which of the following is the proper interpretation?

- A) If no hazardous material is found P-152a would then be 15,030 CY and item P-152d is essentially deleted
- B) If no hazardous material is found P-152a would then be 22,540 CY (15,030 plus 7,510 cy).
- C) If hazardous material is found then P-152a would only be 7,520 CY (15,030 cy minus 7,510cy).

Answer: The current unclassified excavation quantities are estimated at 22,540 CY; since the quantity of PFAS contaminated soil is unknown until testing is completed, the P-152a Unclassified Excavation and Haul-off was estimated at 2/3 of the quantity of unclassified excavation material and the P-152d Unclassified Excavation and Stockpile was estimated at 1/3 of the quantity of unclassified excavation material.

- 6) Question: On Plan Sheet E102, please clarify means and methods for removal of conduit and wire crossing under existing Taxiway F (Taxiway A).

Answer: This duct bank shall be removed during the project. The limits of removal shall be within the pavement removal limits.

- 7) Question: On Plan Sheet E202, is the 5-2" PVC Duct (CE) to be directionally bored under the existing pavement?

Answer: The 5-2" PVC Duct (CE) will not be directionally bored under the existing pavement. This duct will be installed within the proposed pavement limits and tie to the existing duct bank at the edge of the limit.

Note: The explanations to prospective bidders period ended on June 15, 2023 at 4:00 P.M. (local time). Therefore, no more responses will be issued to any questions submitted by prospective bidders.

**** END OF ADDENDUM NO. 2 ****

SCHEDULE I						
Item No.	Description		Units	Estimated Quantity	Unit Price	Total
C-100a	Contractor Quality Control Program (CQCP)	at the unit price of: _____ dollars and _____ cents.	LS	1	\$	\$
C-105a	Mobilization (10% Maximum)	at the unit price of: _____ dollars and _____ cents.	LS	1	\$	\$
SP-100a	Airfield Safety and Traffic Control	at the unit price of: _____ dollars and _____ cents.	LS	1	\$	\$
SP-100b	Construction Staking and Survey Layout	at the unit price of: _____ dollars and _____ cents.	LS	1	\$	\$
SP-100c	Airport Access and Haul Route Repair	at the unit price of: _____ dollars and _____ cents.	SY	4,500	\$	\$
SP-100d	In-Place Drying Techniques	at the unit price of: _____ dollars and _____ cents.	SY	6,400	\$	\$
SP-100e	Subgrade Stabilization, Excavation Below Subgrade	at the unit price of: _____ dollars and _____ cents.	CY	1,300	\$	\$
SP-100f	Multi-Axial Geogrid	at the unit price of: _____ dollars and _____ cents.	SY	2,000	\$	\$
SP-100g	Underground Utility Investigation and Potholing	at the unit price of: _____ dollars and _____ cents.	HR	24	\$	\$
SP-100h	Install Checkpoint Marker	at the unit price of: _____ dollars and _____ cents.	LS	1	\$	\$
SP-100i	Excess Unclassified Excavation Stockpile Management	at the unit price of: _____ dollars and _____ cents.	LS	1	\$	\$
SP-102a	Compliance with Pollution, Erosion, and Siltation Control	at the unit price of: _____ dollars and _____ cents.	LS	1	\$	\$
SP-126a	Demolish Conduit, Cable, and Counterpoise	at the unit price of: _____ dollars and _____ cents.	LF	6,500	\$	\$
SP-126b	Demolish Concrete Encased Conduit, Cable, and Counterpoise	at the unit price of: _____ dollars and _____ cents.	LF	7,200	\$	\$
SP-126c	Remove Existing Cable and Counterpoise	at the unit price of: _____ dollars and _____ cents.	LF	400	\$	\$
SP-126d	Demolish Electrical Pullbox	at the unit price of: _____ dollars and _____ cents.	EA	7	\$	\$
SP-126e	Demolish FAA Pullbox	at the unit price of: _____ dollars and _____ cents.	EA	5	\$	\$
SP-126f	Demolish Airfield Sign and Pad	at the unit price of: _____ dollars and _____ cents.	EA	9	\$	\$
SP-126g	Demolish Elevated Taxiway Edge Light and Can. Salvage Existing Fixture	at the unit price of: _____ dollars and _____ cents.	EA	69	\$	\$
SP-126h	Demolish In-pavement Taxiway Edge Light and Can. Salvage Existing Fixture	at the unit price of: _____ dollars and _____ cents.	EA	71	\$	\$
SP-126i	Demolish Abandoned Waterline, if Encountered	at the unit price of: _____ dollars and _____ cents.	LF	400	\$	\$
SP-126j	Demolish Concrete Valley Gutter	at the unit price of: _____ dollars and _____ cents.	LF	130	\$	\$
P-101a	Demolish Asphalt Pavement	at the unit price of: _____ dollars and _____ cents.	SY	90,000	\$	\$
P-101b	Asphalt Crack Repair (under 1.5" width)	at the unit price of: _____ dollars and _____ cents.	LF	2,100	\$	\$
P-101c	Asphalt Crack Repair (over 1.5" width)	at the unit price of: _____ dollars and _____ cents.	SF	200	\$	\$
P-101d	Cold Mill, Variable Depth (2 inches maximum)	at the unit price of: _____ dollars and _____ cents.	SY	3,500	\$	\$
P-101e	Removal of Existing Underdrain Pipe, Complete	at the unit price of: _____ dollars and _____ cents.	LF	1,120	\$	\$

SCHEDULE I						
Item No.	Description		Units	Estimated Quantity	Unit Price	Total
P-101f	Removal of Underdrain Cleanout, Complete	at the unit price of: _____ dollars and _____ cents.	EA	12	\$	\$
P-101g	Removal of Underdrain Inspection Pit, Complete	at the unit price of: _____ dollars and _____ cents.	EA	3	\$	\$
P-152a	Unclassified Excavation and Haul-Off	at the unit price of: _____ dollars and _____ cents.	CY	15,030	\$	\$
P-152b	Embankment in Place	at the unit price of: _____ dollars and _____ cents.	CY	1,085	\$	\$
P-152c	Subgrade Preparation	at the unit price of: _____ dollars and _____ cents.	SY	140	\$	\$
P-152d	Unclassified Excavation and Stockpile Onsite	at the unit price of: _____ dollars and _____ cents.	CY	7,510	\$	\$
P-155a	Lime Treated Subgrade, 16-Inch Depth	at the unit price of: _____ dollars and _____ cents.	SY	63,500	\$	\$
P-155b	Lime	at the unit price of: _____ dollars and _____ cents.	TON	1,500	\$	\$
P-156a	Cement Treated Subgrade, 16-Inch Depth	at the unit price of: _____ dollars and _____ cents.	SY	63,500	\$	\$
P-156b	Cement	at the unit price of: _____ dollars and _____ cents.	TON	1,250	\$	\$
P-209a	Crushed Aggregate Base Course	at the unit price of: _____ dollars and _____ cents.	CY	11,100	\$	\$
P-401a	Asphalt Surface Course (PG 70-10)	at the unit price of: _____ dollars and _____ cents.	TON	15,100	\$	\$
P-620a	Surface Preparation (Obliteration)	at the unit price of: _____ dollars and _____ cents.	SF	5,450	\$	\$
P-620b	Marking, 2 Coats with Beads (All Colors)	at the unit price of: _____ dollars and _____ cents.	SF	22,000	\$	\$
P-620c	Marking, Single Coat with No Beads (All Colors)	at the unit price of: _____ dollars and _____ cents.	SF	58,300	\$	\$
P-620d	Marking, Single Coat with Beads (All Colors)	at the unit price of: _____ dollars and _____ cents.	SF	12,000	\$	\$
P-620e	12-Foot Single Designation Surface Painted Holding Position Signs	at the unit price of: _____ dollars and _____ cents.	EA	4	\$	\$
P-620f	9-Foot Double Designation Surface Painted Holding Position Signs	at the unit price of: _____ dollars and _____ cents.	EA	3	\$	\$
P-620g	12-Foot Double Designation Surface Painted Holding Position Signs	at the unit price of: _____ dollars and _____ cents.	EA	4	\$	\$
P-621a	Grooving	at the unit price of: _____ dollars and _____ cents.	SY	270	\$	\$
D-701a	18-inch RCP, Class IV, Complete	at the unit price of: _____ dollars and _____ cents.	LF	570	\$	\$
D-705a	Underdrain Pipe, 6-Inch	at the unit price of: _____ dollars and _____ cents.	LF	9,300	\$	\$
D-705b	Underdrain Pipe Cleanout	at the unit price of: _____ dollars and _____ cents.	EA	38	\$	\$
D-751a	Storm Manhole	at the unit price of: _____ dollars and _____ cents.	EA	14	\$	\$
D-751b	Storm Inlet	at the unit price of: _____ dollars and _____ cents.	EA	2	\$	\$
D-751c	Connect to Existing Manhole/Inlet/Cleanout/Underdrain	at the unit price of: _____ dollars and _____ cents.	EA	10	\$	\$
D-751d	Adjust Existing Inlet to Grade	at the unit price of: _____ dollars and _____ cents.	EA	1	\$	\$

SCHEDULE I						
Item No.	Description		Units	Estimated Quantity	Unit Price	Total
D-754a	Construct Concrete Valley Gutter and Apron	at the unit price of: _____ dollars and _____ cents.	LF	130	\$	\$
T-901a	Seeding	at the unit price of: _____ dollars and _____ cents.	AC	12	\$	\$
T-905a	Topsoil (Imported)	at the unit price of: _____ dollars and _____ cents.	CY	4,650	\$	\$
L-108a	Install #8 AWG, L-824C, 5000V, Wire	at the unit price of: _____ dollars and _____ cents.	LF	20,500	\$	\$
L-108b	Install #6 AWG, Bare Copper Counterpoise Including Ground Rods and Terminations	at the unit price of: _____ dollars and _____ cents.	LF	14,250	\$	\$
L-110a	Install 1-2" SCH. 40 PVC Conduit, Direct Earth Buried (DEB)	at the unit price of: _____ dollars and _____ cents.	LF	7,400	\$	\$
L-110b	Install 1-2" SCH. 40 PVC Conduit, Concrete Encased (CE)	at the unit price of: _____ dollars and _____ cents.	LF	6,600	\$	\$
L-110c	Install 5-2" SCH. 40 PVC Conduit, Concrete Encased (CE)	at the unit price of: _____ dollars and _____ cents.	LF	100	\$	\$
L-110d	Concrete Encase Existing FAA Line Under Proposed Pavement	at the unit price of: _____ dollars and _____ cents.	LF	400	\$	\$
L-115a	Install FAA Electrical Pullbox, 4'x4', Aircraft Rated	at the unit price of: _____ dollars and _____ cents.	EA	3	\$	\$
L-115b	Install NON-FAA Electrical Pullbox, 3'x3', Aircraft Rated	at the unit price of: _____ dollars and _____ cents.	EA	1	\$	\$
L-115c	Install L-867B Junction Box, Complete	at the unit price of: _____ dollars and _____ cents.	EA	2	\$	\$
L-125a	Install LED L-861T Taxiway Edge Light, Complete	at the unit price of: _____ dollars and _____ cents.	EA	70	\$	\$
L-125b	Install In-Pavement LED L-852T Taxiway Edge Light, Complete	at the unit price of: _____ dollars and _____ cents.	EA	66	\$	\$
L-125c	Install LED L-858 Guidance Sign, Size 1, 2 Module, Complete	at the unit price of: _____ dollars and _____ cents.	EA	1	\$	\$
L-125d	Reinstall LED L-858 Guidance Sign, Size 1, 3 Module on New Foundation, Complete	at the unit price of: _____ dollars and _____ cents.	EA	8	\$	\$
L-125e	Remove and Reinstall Unlighted L-858 Billboard Type Sign, on New Foundation, Complete	at the unit price of: _____ dollars and _____ cents.	EA	1	\$	\$
CVSS DOA 9-4	Execution of Release on Contract	at the unit price of: _____ dollars and _____ cents.	LS	1	\$	\$

SCHEDULE I TOTAL \$ _____

METHOD OF MEASUREMENT

115-4.1 Electrical manholes and junction structures shall be measured by each unit completed in place and accepted. The following items shall be included in the price of each unit: All required excavation and dewatering; sheeting and bracing; all required backfilling with on-site materials; restoration of all surfaces and finished grading and turfing; all required connections; temporary cables and connections; and ground rod testing

115-4.2 Manhole elevation adjustments shall be measured by the completed unit installed, in place, completed, and accepted. Separate measurement shall not be made for the various types and sizes.

BASIS OF PAYMENT

115-5.1 The accepted quantity of electrical manholes and junction structures will be paid for at the Contract unit price per each, complete and in place. This price shall be full compensation for furnishing all materials and for all preparation, excavation, backfilling and placing of the materials, furnishing and installation of appurtenances and connections to duct banks and other structures as may be required to complete the item as shown on the plans and for all labor, equipment, tools and incidentals necessary to complete the structure.

115-5.2 Payment shall be made at the contract unit price for manhole elevation adjustments. 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, including but not limited to, spacers, concrete, rebar, dewatering, excavating, backfill, topsoil, sodding and pavement restoration, where required, to complete this item as shown in the plans and to the satisfaction of the RPR.

Payment will be made under:

Item L-115a	Install FAA Electrical Pullbox, 4'x4', Aircraft Rated – per each
Item L-115b	Install NON-FAA Electrical Pullbox, 3'x3', Aircraft Rated – per each
Item L-115c	Install L-867B Junction Box, Complete – per each

REFERENCES

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

American National Standards Institute / Insulated Cable Engineers Association (ANSI/ICEA)

ANSI/IEEE STD 81	IEEE Guide for Measuring Earth Resistivity, Ground Impedance, and Earth Surface Potentials of a Ground System
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Advisory Circular (AC)

AC 150/5345-7	Specification for L-824 Underground Electrical Cable for Airport Lighting Circuits
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AC 150/5345-26	Specification for L-823 Plug and Receptacle, Cable Connectors
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141 Payment will be made under:

Item	L-125a	Install LED L-861T Taxiway Edge Light, Complete – per each
Item	L-125b	Install In-Pavement LED L-852T Taxiway Edge Light, Complete – per each
Item	L-125c	Install LED L-858 Guidance Sign, Size 1, 2 Module, Complete – per each
Item	L-125d	Reinstall LED L-858 Guidance Sign, Size 1, 3 Module, Complete – per each

Item	L-125e	Remove and Reinstall Unlighted L-858 Billboard Type Sign, on New Foundation, Complete
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143 REFERENCES

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

148 Advisory Circulars (AC)

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

165 Engineering Brief (EB)

166	EB No. 67	Light Sources Other than Incandescent and Xenon for Airport and Obstruction Lighting
167		Fixtures

168 ****END OF ITEM L-125****

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SUMMARY OF APPROXIMATE QUANTITIES				
ITEM NO.	ITEM DESCRIPTION	UNITS	SCHEDULE I	
			ESTIMATE	AS BUILT
C-100a	Contractor Quality Control Program (CQCP)	LS	1	
C-105a	Mobilization (10% Maximum)	LS	1	
SP-100a	Airfield Safety and Traffic Control	LS	1	
SP-100b	Construction Staking and Survey Layout	LS	1	
SP-100c	Airport Access and Haul Route Repair	SY	4,500	
SP-100d	In-Place Drying Techniques	SY	6,400	
SP-100e	Subgrade Stabilization, Excavation Below Subgrade	CY	1,300	
SP-100f	Multi-Axial Geogrid	SY	2,000	
SP-100g	Underground Utility Investigation and Potholing	HR	24	
SP-100h	Install Checkpoint Marker	LS	1	
SP-100i	Excess Unclassified Excavation Stockpile Management	LS	1	
SP-102a	Compliance with Pollution, Erosion, and Siltation Control	LS	1	
SP-126a	Demolish Conduit, Cable, and Counterpoise	LF	6,500	
SP-126b	Demolish Concrete Encased Conduit, Cable, and Counterpoise	LF	7,200	
SP-126c	Remove Existing Cable and Counterpoise	LF	400	
SP-126d	Demolish Electrical Pullbox	EA	7	
SP-126e	Demolish FAA Pullbox	EA	5	
SP-126f	Demolish Airfield Sign and Pad	EA	9	
SP-126g	Demolish Elevated Taxiway Edge Light and Can. Salvage Existing Fixture	EA	69	
SP-126h	Demolish In-pavement Taxiway Edge Light and Can. Salvage Existing Fixture	EA	71	
SP-126i	Demolish Abandoned Waterline, if Encountered	LF	400	
SP-126j	Demolish Concrete Valley Gutter	LF	130	
P-101a	Demolish Asphalt Pavement	SY	90,000	
P-101b	Asphalt Crack Repair (under 1.5" width)	LF	2,100	
P-101c	Asphalt Crack Repair (over 1.5" width)	SF	200	
P-101d	Cold Mill, Variable Depth (2 inches maximum)	SY	3,500	
P-101e	Removal of Existing Underdrain Pipe, Complete	LF	1,120	
P-101f	Removal of Underdrain Cleanout, Complete	EA	12	
P-101g	Removal of Underdrain Inspection Pit, Complete	EA	3	
P-152a	Unclassified Excavation and Haul-Off	CY	15,030	
P-152b	Embankment in Place	CY	1,085	
P-152c	Subgrade Preparation	SY	140	
P-152d	Unclassified Excavation and Stockpile Onsite	CY	7,510	
P-155a	Lime Treated Subgrade, 16-Inch Depth	SY	63,500	
P-155b	Lime	TON	1,500	
P-156a	Cement Treated Subgrade, 16-Inch Depth	SY	63,500	
P-156b	Cement	TON	1,250	
P-209a	Crushed Aggregate Base Course	CY	11,100	
P-401a	Asphalt Surface Course (PG 70-10)	TON	15,100	
P-620a	Surface Preparation (Obliteration)	SF	5,450	
P-620b	Marking, 2 Coats with Beads (All Colors)	SF	22,000	
P-620c	Marking, Single Coat with No Beads (All Colors)	SF	58,300	
P-620d	Marking, Single Coat with Beads (All Colors)	SF	12,000	
P-620e	12-Foot Single Designation Surface Painted Holding Position Signs	EA	4	
P-620f	9-Foot Double Designation Surface Painted Holding Position Signs	EA	3	
P-620g	12-Foot Double Designation Surface Painted Holding Position Signs	EA	4	
P-621a	Grooving	SY	270	
D-701a	18-inch RCP, Class IV, Complete	LF	570	
D-705a	Underdrain Pipe, 6-Inch	LF	9,300	
D-705b	Underdrain Pipe Cleanout	EA	38	
D-751a	Storm Manhole	EA	14	
D-751b	Storm Inlet	EA	2	
D-751c	Connect to Existing Manhole/Inlet/Cleanout/Underdrain	EA	10	
D-751d	Adjust Existing Inlet to Grade	EA	1	
D-754a	Construct Concrete Valley Gutter and Apron	LF	130	
T-901a	Seeding	AC	12	
T-905a	Topsoil (Imported)	CY	4,650	
L-108a	Install #8 AWG, L-824C, 5000V, Wire	LF	20,500	
L-108b	Install #6 AWG, Bare Copper Counterpoise Including Ground Rods and Terminations	LF	14,250	
L-110a	Install 1-2" SCH. 40 PVC Conduit, Direct Earth Buried (DEB)	LF	7,400	
L-110b	Install 1-2" SCH. 40 PVC Conduit, Concrete Encased (CE)	LF	6,600	
L-110c	Install 5-2" SCH. 40 PVC Conduit, Concrete Encased (CE)	LF	100	
L-110d	Concrete Encase Existing FAA Line Under Proposed Pavement	LF	400	
L-115a	Install FAA Electrical Pullbox, 4'x4', Aircraft Rated	EA	3	
L-115b	Install NON-FAA Electrical Pullbox, 3'x3', Aircraft Rated	EA	1	
L-115c	Install L-867B Junction Box, Complete	EA	2	
L-125a	Install LED L-861T Taxiway Edge Light, Complete	EA	70	
L-125b	Install In-Pavement LED L-852T Taxiway Edge Light, Complete	EA	66	
L-125c	Install LED L-858 Guidance Sign, Size 1, 2 Module, Complete	EA	1	
L-125d	Reinstall LED L-858 Guidance Sign, Size 1, 3 Module on New Foundation, Complete	EA	8	
L-125e	Remove and Reinstall Unlighted L-858 Billboard Type Sign, on New Foundation, Complete	EA	1	
CVSS DOA 9-4	Execution of Release on Contract	LS	1	

SHEET LIST DESCRIPTION			
SHEET NO.	SHEET NAME	DRAWING NUMBER	SHEET DESCRIPTION
1	G001	1586-DOA	COVER SHEET
2	G002	1587-DOA	INDEX OF DRAWINGS & SUMMARY
3	G003A	1588-DOA	GENERAL NOTES
4	G003B	1589-DOA	GENERAL NOTES
5	G004	1590-DOA	MASTER LEGEND & ABBREVIATION
6	G005	1591-DOA	SURVEY CONTROL PLAN
7	G006	1592-DOA	GEOTECHNICAL INVESTIGATION PLAN
8	G007	1593-DOA	SOIL BORING LOGS
9	G008	1594-DOA	SOIL BORING LOGS
10	G009	1595-DOA	SOIL BORING LOGS
11	G010	1596-DOA	SOIL BORING LOGS
12	G011	1597-DOA	SOIL BORING LOGS
13	G050	1598-DOA	CONSTRUCTION SAFETY NOTES & DETAILS
14	G051	1599-DOA	CONSTRUCTION SAFETY OVERALL PHASING PLAN
15	G052	1600-DOA	CONSTRUCTION SAFETY AND PHASING PLAN SCHEDULE I PRECONSTRUCTION MOBILIZATION
16	G053	1601-DOA	CONSTRUCTION SAFETY AND PHASING PLAN SCHEDULE I, PHASE 1
17	G054	1602-DOA	CONSTRUCTION SAFETY AND PHASING PLAN SCHEDULE I, PHASE 2
18	G055	1603-DOA	CONSTRUCTION SAFETY AND PHASING PLAN SCHEDULE I, PHASE 3
19	G100	1604-DOA	ENVIRONMENTAL REQUIREMENTS
20	C100	1605-DOA	DEMOLITION PLAN STA. 98+00 TO STA. 111+00 RUNWAY 7/25
21	C101	1606-DOA	DEMOLITION PLAN STA. 111+00 TO STA. 124+00 RUNWAY 7/25
22	C102	1607-DOA	DEMOLITION PLAN STA. 124+00 TO STA. 137+00 RUNWAY 7/25
23	C103	1608-DOA	DEMOLITION PLAN STA. 137+00 TO STA. 150+00 RUNWAY 7/25
24	C104	1609-DOA	DEMOLITION PLAN STA. 150+00 TO STA. 163+00 RUNWAY 7/25
25	C150	1610-DOA	DEMOLITION DETAILS
26	C200	1611-DOA	GEOMETRIC LAYOUT PLAN STA. 98+00 TO STA. 111+00 RUNWAY 7/25
27	C201	1612-DOA	GEOMETRIC LAYOUT PLAN STA. 111+00 TO STA. 124+00 RUNWAY 7/25
28	C202	1613-DOA	GEOMETRIC LAYOUT PLAN STA. 124+00 TO STA. 137+00 RUNWAY 7/25
29	C203	1614-DOA	GEOMETRIC LAYOUT PLAN STA. 137+00 TO STA. 150+00 RUNWAY 7/25
30	C204	1615-DOA	GEOMETRIC LAYOUT PLAN STA. 150+00 TO STA. 163+00 RUNWAY 7/25
31	C220	1616-DOA	TYPICAL SECTIONS
32	C221	1617-DOA	TYPICAL SECTIONS
33	C222	1618-DOA	TYPICAL SECTIONS
34	C223	1619-DOA	TYPICAL SECTIONS
35	C300	1620-DOA	OVERALL GRADING PLAN
36	C301	1621-DOA	GRADING PLAN STA. 98+00 TO STA. 111+00 RUNWAY 7/25
37	C302	1622-DOA	GRADING PLAN STA. 111+00 TO STA. 124+00 RUNWAY 7/25
38	C303	1623-DOA	GRADING PLAN STA. 124+00 TO STA. 137+00 RUNWAY 7/25
39	C304	1624-DOA	GRADING PLAN STA. 137+00 TO STA. 150+00 RUNWAY 7/25
40	G305	1625-DOA	GRADING PLAN STA. 150+00 TO STA. 163+00 RUNWAY 7/25
41	C400	1626-DOA	SPOT ELEVATION PLAN STA. 98+00 TO STA. 111+00 RUNWAY 7/25
42	C401	1627-DOA	SPOT ELEVATION PLAN STA. 111+00 TO STA. 124+00 RUNWAY 7/25
43	C402	1628-DOA	SPOT ELEVATION PLAN STA. 124+00 TO STA. 137+00 RUNWAY 7/25
44	C403	1629-DOA	SPOT ELEVATION PLAN STA. 137+00 TO STA. 150+00 RUNWAY 7/25
45	C404	1630-DOA	SPOT ELEVATION PLAN STA. 150+00 TO STA. 163+00 RUNWAY 7/25
46	C405	1631-DOA	PCC VALLEY GUTTER
47	C500	1632-DOA	PAVEMENT PLAN AND PROFILE STA. 98+00 TO STA. 111+00 TAXIWAY F
48	C501	1633-DOA	PAVEMENT PLAN AND PROFILE STA. 111+00 TO STA. 124+00 TAXIWAY F
49	C502	1634-DOA	PAVEMENT PLAN AND PROFILE STA. 124+00 TO STA. 137+00 TAXIWAY F
50	C503	1635-DOA	PAVEMENT PLAN AND PROFILE STA. 137+00 TO STA. 150+00 TAXIWAY F
51	C504	1636-DOA	PAVEMENT PLAN AND PROFILE STA. 150+00 TO STA. 163+00 TAXIWAY F
52	C600	1637-DOA	UNDERDRAIN AND STORM SEWER LAYOUT PLAN STA. 98+00 TO STA. 111+00 RUNWAY 7/25
53	C601	1638-DOA	UNDERDRAIN AND STORM SEWER LAYOUT PLAN STA. 111+00 TO STA. 124+00 RUNWAY 7/25
54	C602	1639-DOA	UNDERDRAIN AND STORM SEWER LAYOUT PLAN STA. 124+00 TO STA. 137+00 RUNWAY 7/25
55	C603	1640-DOA	UNDERDRAIN AND STORM SEWER LAYOUT PLAN STA. 137+00 TO STA. 150+00 RUNWAY 7/25
56	C604	1641-DOA	UNDERDRAIN AND STORM SEWER LAYOUT PLAN STA. 150+00 TO STA. 163+00 RUNWAY 7/25
57	C650	1642-DOA	UNDERDRAIN AND STORM SEWER DETAILS
58	C651	1643-DOA	UNDERDRAIN AND STORM SEWER DETAILS
59	C652	1644-DOA	UNDERDRAIN AND STORM SEWER DETAILS
60	C700	1645-DOA	PAVEMENT GROOVING PLAN
61	C750	1646-DOA	PAVEMENT GROOVING DETAILS
62	C800	1647-DOA	PAVEMENT MARKING PLAN STA. 98+00 TO STA. 111+00 RUNWAY 7/25
63	C801	1648-DOA	PAVEMENT MARKING PLAN STA. 111+00 TO STA. 124+00 RUNWAY 7/25
64	C802	1649-DOA	PAVEMENT MARKING PLAN STA. 124+00 TO STA. 137+00 RUNWAY 7/25
65	C803	1650-DOA	PAVEMENT MARKING PLAN STA. 137+00 TO STA. 150+00 RUNWAY 7/25
66	C804	1651-DOA	PAVEMENT MARKING PLAN STA. 150+00 TO STA. 163+00 RUNWAY 7/25
67	C850	1652-DOA	PAVEMENT MARKING DETAILS
68	C851	1653-DOA	PAVEMENT MARKING DETAILS
69	C900	1654-DOA	SEEDING AND EROSION PLAN STA. 98+00 TO STA. 111+00 RUNWAY 7/25
70	C901	1655-DOA	SEEDING AND EROSION CONTROL PLAN STA. 111+00 TO STA. 124+00 RUNWAY 7/25
71	C902	1656-DOA	SEEDING AND EROSION CONTROL PLAN STA. 124+00 TO STA. 137+00 RUNWAY 7/25
72	C903	1657-DOA	SEEDING AND EROSION CONTROL PLAN STA. 137+00 TO STA. 150+00 RUNWAY 7/25
73	C904	1658-DOA	SEEDING AND EROSION CONTROL PLAN STA. 150+00 TO STA. 163+00 RUNWAY 7/25
74	C950	1659-DOA	EROSION CONTROL DETAIL

SHEET LIST DESCRIPTION			
SHEET NO.	SHEET NAME	DRAWING NUMBER	SHEET DESCRIPTION
75	E001	1660-DOA	ELECTRICAL LEGEND AND GENERAL NOTES
76	E100	1661-DOA	ELECTRICAL DEMOLITION PLAN STA. 98+00 TO STA. 111+00 RUNWAY 7/25
77	E101	1662-DOA	ELECTRICAL DEMOLITION PLAN STA. 111+00 TO STA. 124+00 RUNWAY 7/25
78	E102	1663-DOA	ELECTRICAL DEMOLITION PLAN STA. 124+00 TO STA. 137+00 RUNWAY 7/25
79	E103	1664-DOA	ELECTRICAL DEMOLITION PLAN STA. 137+00 TO STA. 150+00 RUNWAY 7/25
80	E104	1665-DOA	ELECTRICAL DEMOLITION PLAN STA. 150+00 TO STA. 163+00 RUNWAY 7/25
81	E200	1666-DOA	ELECTRICAL LAYOUT PLAN STA. 98+00 TO STA. 111+00 RUNWAY 7/25
82	E201	1667-DOA	ELECTRICAL LAYOUT PLAN STA. 111+00 TO STA. 124+00 RUNWAY 7/25
83	E202	1668-DOA	ELECTRICAL LAYOUT PLAN STA. 124+00 TO STA. 137+00 RUNWAY 7/25
84	E203	1669-DOA	ELECTRICAL LAYOUT PLAN STA. 137+00 TO STA. 150+00 RUNWAY 7/25
85	E204	1670-DOA	ELECTRICAL LAYOUT PLAN STA. 150+00 TO STA. 163+00 RUNWAY 7/25
86	E250	1671-DOA	ELECTRICAL DETAILS
87	E251	1672-DOA	ELECTRICAL DETAILS
88	E252	1673-DOA	ELECTRICAL DETAILS
89	E253	1674-DOA	ELECTRICAL DETAILS

APPROXIMATE EARTHWORK VOLUME SUMMARY		
AREA DESCRIPTION	CUT (CY)	FILL (CY)
SCHEDULE I		
TAXIWAY F RECONSTRUCTION	15,840	1,085
OVEREXCAVATION FOR TOPSOIL PLACEMENT (4-INCH DEPTH)	6,700	0
SCHEDULE I SUBTOTAL	22,540	1,085
PROJECT TOTAL	22,540	1,085

EARTHWORK NOTES:

- EARTHWORK VOLUMES ARE RAW AND UNADJUSTED. EARTHWORK QUANTITIES MAY VARY ±10% DEPENDING ON THE SOIL CONDITIONS ENCOUNTERED AND/OR THE ACTUAL SWELL/SHRINK FACTORS.
- QUANTITIES PROVIDED ARE ESTIMATES BASED ON THE AVAILABLE INFORMATION AT THE TIME; CONTRACTOR TO DETERMINE QUANTITIES VIA SURVEY.
- THE CONTRACTOR WILL BE REQUIRED TO STOCKPILE THE PFAS CONTAMINATED UNCLASSIFIED EXCAVATION ONSITE WITHIN THE AIRPORT BOUNDARY AT THE LOCATION SHOWN ON SHEET G051 PER SP-100-1.30 AND P-152D. THE CONTRACTOR WILL BE PERMITTED TO HAUL THE CLEARED, UNCONTAMINATED UNCLASSIFIED EXCAVATION MATERIAL OFFSITE PER P-152A.

RE-ISSUE ENTIRE SHEET



ISSUED FOR BID			
THESE DRAWINGS ARE FOR BIDDING PURPOSES ONLY. THEY WERE PREPARED BY OR UNDER THE SUPERVISION OF:			
JOHN DUANE INGRAM	PE - C 058505	5/25/2023	
NAME	REG. NO.	DATE	
FOR AND ON BEHALF OF JVIATION, A WOOLPERT COMPANY			



OXNARD AIRPORT
 OXNARD,CA



DES: T.A.R.	ISSUE RECORD			
	NO.	BY	DATE	DESCRIPTION
DR: R.L.B.	1	J.D.I.	5/25/2023	ISSUED FOR BID
CH: C.L.G.	2	J.D.I.	06/20/2023	ADDENDUM NO. 2
APP: J.D.I.				Exhibit 2

RECONSTRUCTION OF
 TAXIWAY F

INDEX OF DRAWINGS & SUMMARY










AIP PROJECT NO. 3-06-0179-043-2023	JVIATION PROJ. NO. 2023.OXR.01	SPEC. NO. DOA 23-03	COUNTY PROJ. NO. OXR-150
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SHEET NAME
 G002

SHEET NO.
 2 of 89

DRAWING NO.
 1587-DOA



- | | |
|-------------------------------------------------------------------------------------|-----------------------------------------------|
|  | EXISTING ELECTRICAL DIRECT EARTH BURIED (DEB) |
|  | EXISTING ELECTRICAL CONCRETE ENCASED (CE) |
|  | REMOVE ELECTRICAL DIRECT EARTH BURIED (DEB) |
|  | REMOVE ELECTRICAL CONCRETE ENCASED (CE) |
|  | REMOVE TW IN-PAVEMENT LIGHT |
|  | REMOVE TW EDGE LIGHT |
|  | REMOVE HANDHOLE/PULLBOX |
|  | REMOVE JUNCTION BOX |
|  | REMOVE GUIDANCE SIGN |

NOTES

1. SEE SHEET E001 FOR ELECTRICAL LEGEND AND NOTES.
2. SEE SHEETS E200 THRU E204 FOR ELECTRICAL PLANS.
3. SEE SHEETS E250 THRU E254 FOR ELECTRICAL DETAILS.
4. SEE SHEETS C100 THRU C104 FOR CIVIL DEMOLITION.
5. CONTRACTOR TO USE SURVEY CONTROL POINTS AS SHOWN ON SHEET G005 SURVEY CONTROL LAYOUT.
6. CONTRACTOR SHALL LOCATE AND PROTECT ALL EXISTING UTILITIES.

ISSUED FOR BID

THESE DRAWINGS ARE FOR BIDDING
PURPOSES ONLY. THEY WERE
PREPARED BY OR UNDER THE
SUPERVISION OF:

ZACHARY C. AMBARIANTZ	PE - E 19382	5/25/2023
NAME	REG. NO.	DATE
FOR AND ON BEHALF OF JVIATION, A WOOLPERT COMPANY		

SHEET NAME
E102


SHEET NO.
78 of 89

RAWING NO.
663-DOA

ELECTRICAL DEMOLITION PLAN
STA. 124+00 TO STA. 137+00
RUNWAY 7/25

AIP PROJECT NO. 3-06-0179-043-2023	JVIATION PROJ. NO. 2023.OXR.01	SPEC. NO. DOA 23-03	COUNTY PROJ. NO. OXR-150
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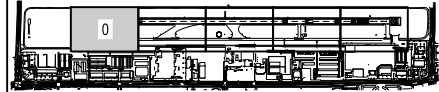
RECONSTRUCTION OF TAXIWAY F

DES: T.A.R.	ISSUE RECORD			
	NO.	BY	DATE	DESCRIPTION
DR: R.L.B.	1	J.D.I.	5/25/2023	ISSUED FOR BID
		J.D.I.	6/20/2023	ADDENDUM NO. 2
CH: C.L.G.				
APP: J.D.I.				

OXNARD AIRPORT
OXNARD,CA



JVIATION®
A WOOLPERT COMPANY



NOTES

1. SEE SHEET E001 FOR ELECTRICAL LEGEND AND GENERAL NOTES.
2. SEE SHEETS E100 THRU E104 FOR ELECTRICAL DEMOLITION.
3. SEE SHEETS E250 THRU E254 FOR ELECTRICAL DETAILS.
4. CONTRACTOR TO USE SURVEY CONTROL POINTS AS SHOWN ON SHEET G005 SURVEY CONTROL LAYOUT.
5. SEE SHEETS G052 THRU G055 FOR CONSTRUCTION PHASING.
6. CONTRACTOR SHALL LOCATE AND PROTECT ALL EXISTING UTILITIES.
7. FAA HANDHOLES SHALL BE JENSEN PRECAST PB4848 WITH TORSION HINGED COVER, OR APPROVED EQUAL. THE 4/0 B.C. GROUND LOOP SHOW IN DETAILS 1 AND 2 ON SHEET E254 SHALL BE CONSIDERED INCIDENTAL TO THE FAA HANDHOLE INSTALLATION.

CIRCUIT LEGEND

- 1 RUNWAY EDGE LIGHTS
- 2 TAXIWAY EDGE LIGHTS

ISSUED FOR BID

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ZACHARY C. AMBARIANTZ PE - E 19382 5/25/2023
NAME REG. NO. DATE
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	NO.	BY	DATE	DESCRIPTION
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APP: J.D.I.				Exhibit 2

RECONSTRUCTION OF
TAXIWAY F

ELECTRICAL LAYOUT PLAN
STA. 98+00 TO STA. 111+00
RUNWAY 7/25

AIP PROJECT NO. 3-06-0179-043-2023 JVIATION PROJ. NO. 2023.OXR.01 SPEC. NO. DOA 23-03 COUNTY PROJ. NO. OXR-150

SHEET NAME
E200
SHEET NO.
81 of 89
DRAWING NO.
1666-DOA



NOTES

- SEE SHEET E001 FOR ELECTRICAL LEGEND AND GENERAL NOTES.
- SEE SHEETS E100 THRU E104 FOR ELECTRICAL DEMOLITION.
- SEE SHEETS E250 THRU E254 FOR ELECTRICAL DETAILS.
- CONTRACTOR TO USE SURVEY CONTROL POINTS AS SHOWN ON SHEET G005 SURVEY CONTROL LAYOUT.
- SEE SHEETS G052 THRU G055 FOR CONSTRUCTION PHASING.
- CONTRACTOR SHALL LOCATE AND PROTECT ALL EXISTING UTILITIES.
- FAA HANDHOLES SHALL BE JENSEN PRECAST PB4848 WITH TORSION HINGED COVER, OR APPROVED EQUAL. THE 4/0 B.C. GROUND LOOP SHOW IN DETAILS 1 AND 2 ON SHEET E254 SHALL BE CONSIDERED INCIDENTAL TO THE FAA HANDHOLE INSTALLATION.

CIRCUIT LEGEND

- 1 RUNWAY EDGE LIGHTS
- 2 TAXIWAY EDGE LIGHTS

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NAME REG. NO. DATE
FOR AND ON BEHALF OF JVIATION, A WOOLPERT COMPANY

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A WOOLPERT COMPANY

OXNARD AIRPORT
OXNARD, CA



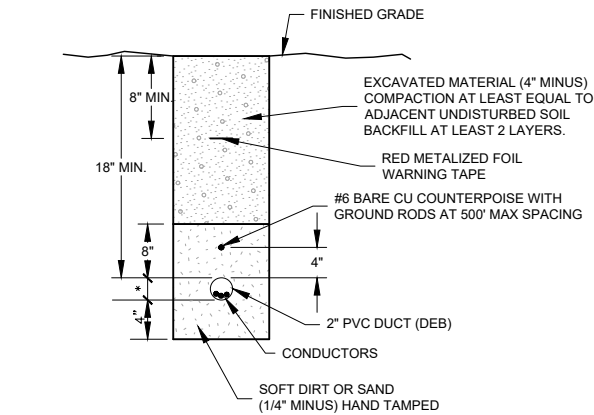
DES: T.A.R.	ISSUE RECORD			
	NO.	BY	DATE	DESCRIPTION
DR: R.L.B.	1	J.D.I.	5/25/2023	ISSUED FOR BID
CH: C.L.G.	2	J.D.I.	6/20/2023	ADDENDUM NO. 2
APP: J.D.I.				Exhibit 2

RECONSTRUCTION OF
TAXIWAY F

ELECTRICAL LAYOUT PLAN
STA. 124+00 TO STA. 137+00
RUNWAY 7/25

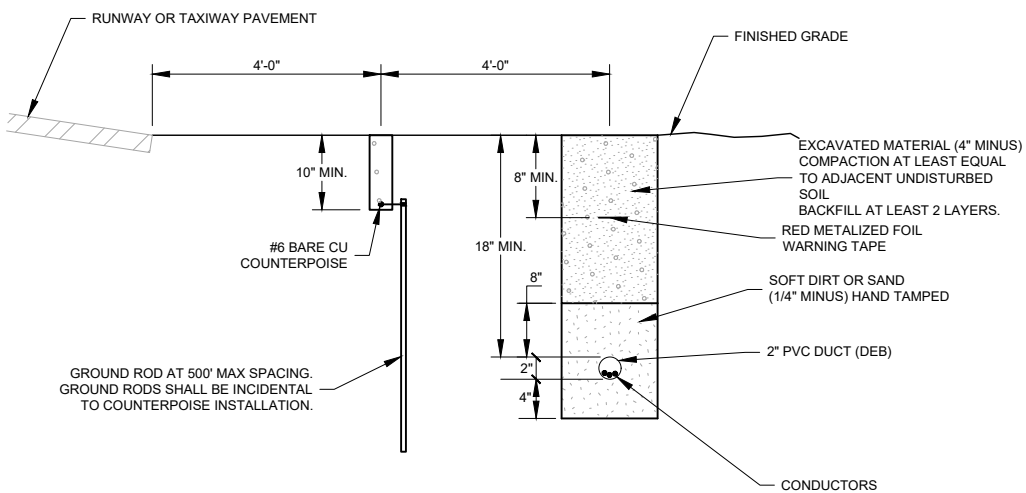
AIP PROJECT NO. 3-06-0179-043-2023
JVIATION PROJ. NO. 2023.OXR.01
SPEC. NO. DOA 23-03
COUNTY PROJ. NO. OXR-150

SHEET NAME
E202
SHEET NO.
83 of 89
DRAWING NO.
1668-DOA



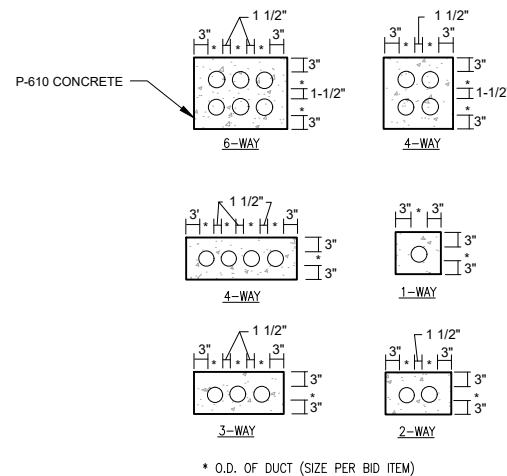
1 DUCT TRENCH (DEB) DETAIL
N.T.S.

NOTE:
THIS DETAIL SHALL BE USED FOR ALL
CONDUIT NOT INSTALLED PARALLEL TO
RUNWAY OR TAXIWAY PAVEMENT.

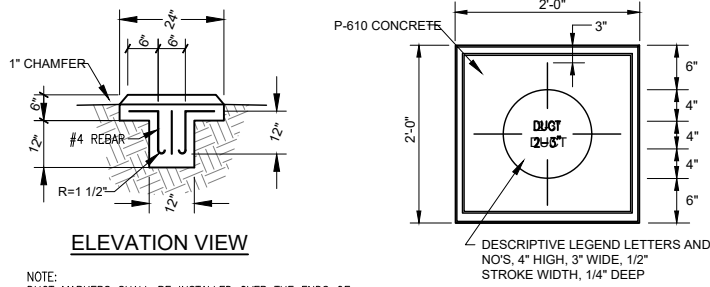


2 DUCT TRENCH (DEB) PARALLEL TO TAXIWAY PAVEMENT DETAIL
N.T.S.

NOTE:
THIS DETAIL SHALL BE USED FOR ALL
CONDUIT INSTALLED PARALLEL TO RUNWAY
OR TAXIWAY PAVEMENT.

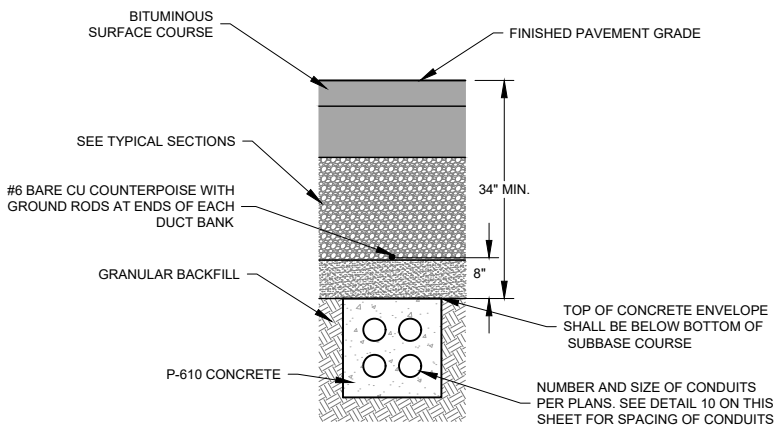


3 DUCT SPACING (CE) DETAIL
N.T.S.

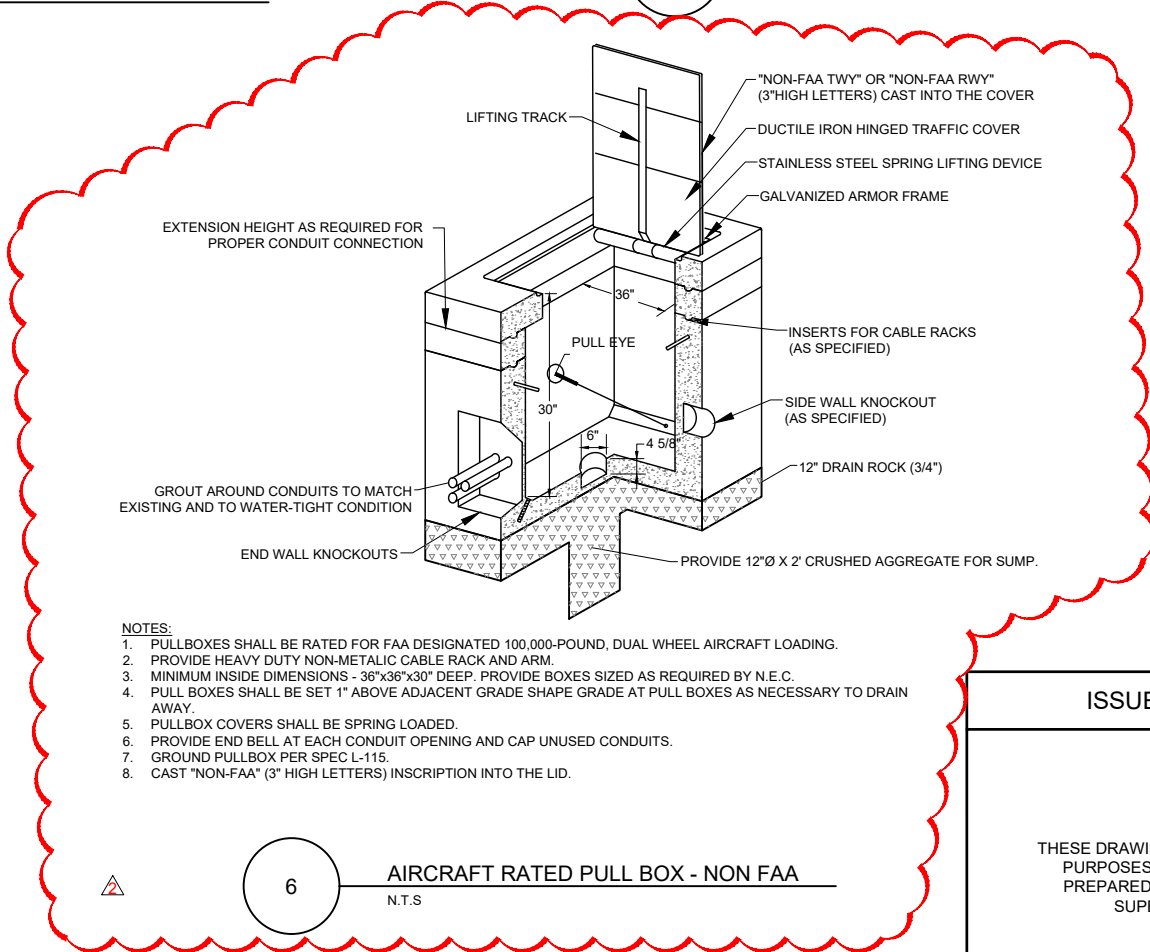


4 DUCT MARKER DETAIL
N.T.S.

NOTE:
DUCT MARKERS SHALL BE INSTALLED OVER THE ENDS OF
ALL SPARE CONDUITS AND AT ALL LOCATIONS WHERE
CONDUIT CHANGES DIRECTION.



5 DUCT TRENCH (CE) DETAIL
N.T.S.



- NOTES:
1. PULLBOXES SHALL BE RATED FOR FAA DESIGNATED 100,000-POUND, DUAL WHEEL AIRCRAFT LOADING.
 2. PROVIDE HEAVY DUTY NON-METALLIC CABLE RACK AND ARM.
 3. MINIMUM INSIDE DIMENSIONS - 36"x36"x30" DEEP. PROVIDE BOXES SIZED AS REQUIRED BY N.E.C.
 4. PULL BOXES SHALL BE SET 1" ABOVE ADJACENT GRADE SHAPE GRADE AT PULL BOXES AS NECESSARY TO DRAIN AWAY.
 5. PULLBOX COVERS SHALL BE SPRING LOADED.
 6. PROVIDE END BELL AT EACH CONDUIT OPENING AND CAP UNUSED CONDUITS.
 7. GROUND PULLBOX PER SPEC L-115.
 8. CAST "NON-FAA" (3" HIGH LETTERS) INSCRIPTION INTO THE LID.

6 AIRCRAFT RATED PULL BOX - NON FAA
N.T.S.

ISSUED FOR BID

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ZACHARY C. AMBARIANTZ PE - E 19382 5/25/2023
NAME REG. NO. DATE
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JVIATION
A WOOLPERT COMPANY

OXNARD AIRPORT
OXNARD, CA



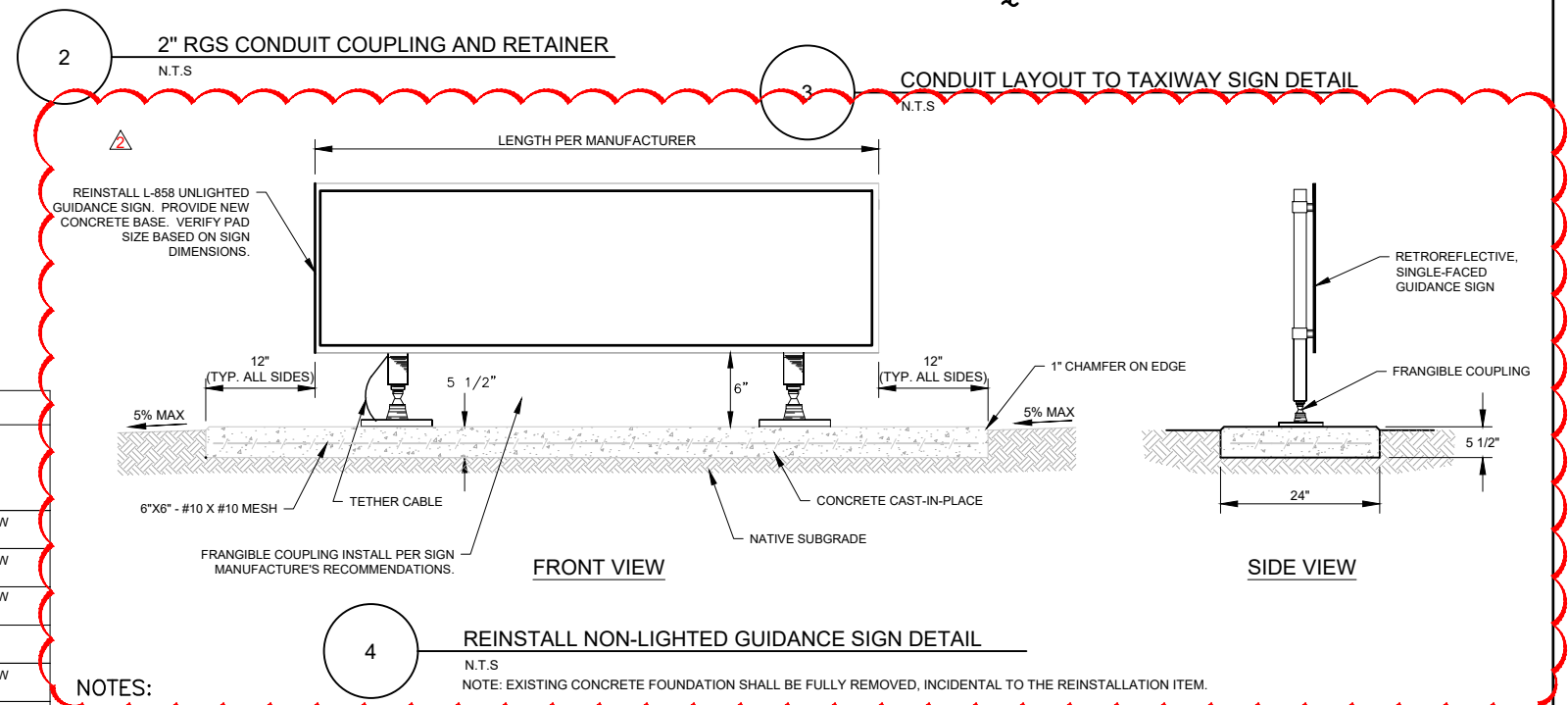
DES: T.A.R.	ISSUE RECORD			
	NO.	BY	DATE	DESCRIPTION
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CH: C.L.G.	2	J.D.I.	6/20/2023	ADDENDUM NO. 2
APP: J.D.I.				Exhibit 2


RECONSTRUCTION OF
TAXIWAY F

ELECTRICAL DETAILS

AIP PROJECT NO. 3-06-0179-043-2023
JVIATION PROJ. NO. 2023.OXR.01
SPEC. NO. DOA 23-03
COUNTY PROJ. NO. OXR-150

SHEET NAME
E251
SHEET NO.
87 of 89
DRAWING NO.
1672-DOA





SIGN TYPE LEGEND	
Y - BLACK LEGEND ON YELLOW BACKGROUND (L-858Y DIRECTIONAL) R - WHITE LEGEND ON RED BACKGROUND (L-858R-MANDATORY) L - YELLOW LEGEND ON BLACK BACKGROUND (L-858L-LOCATION) B - WHITE LEGEND ON BLACK BACKGROUND (L-858B - RDR)	

- ISSUED FOR BID**

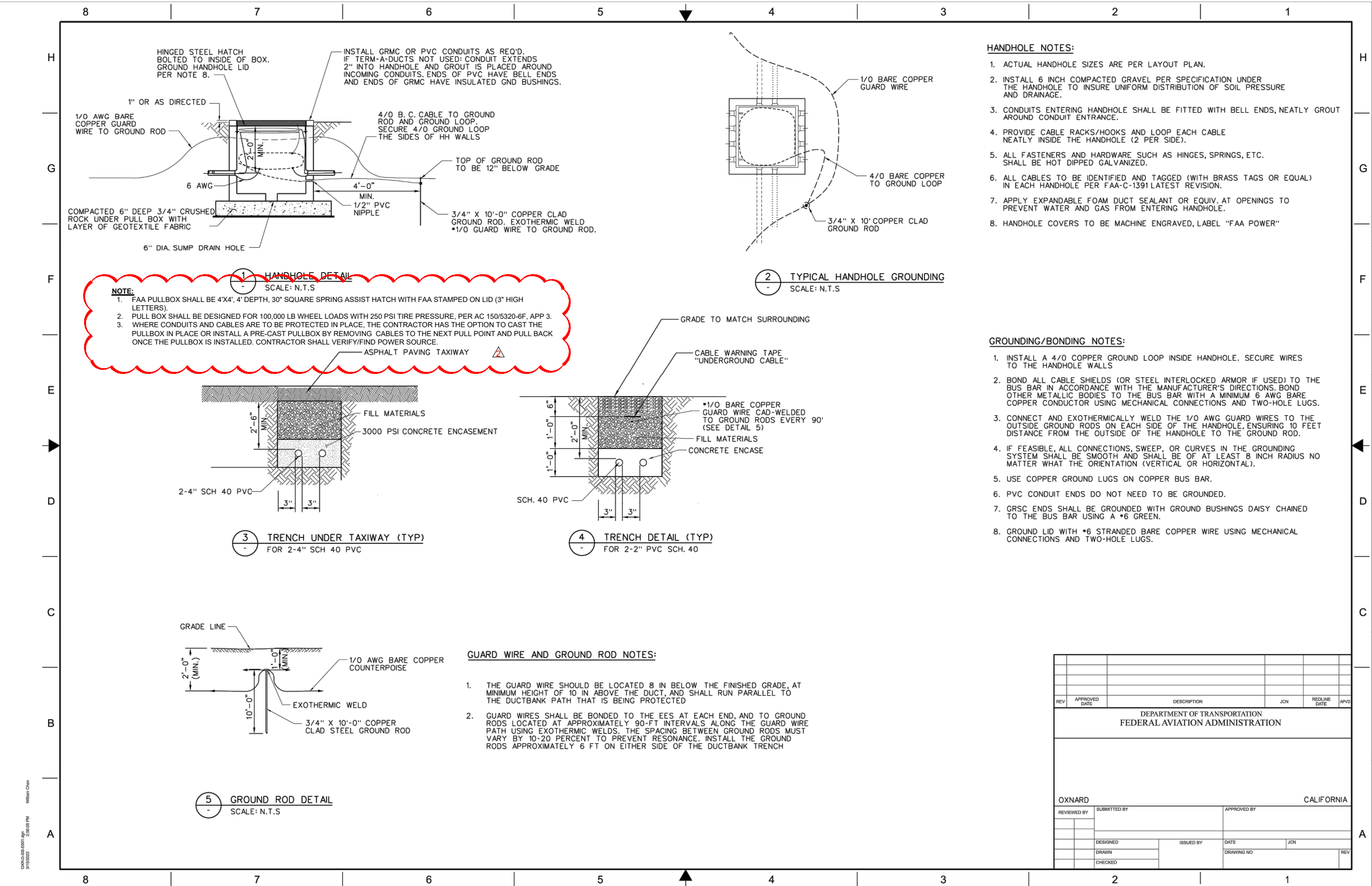
**THESE DRAWINGS ARE FOR BIDDING
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SUPERVISION OF:**

ZACHARY C. AMBARIANTZ	PE - E 19382	5/25/2023
NAME	REG. NO.	DATE
FOR AND ON BEHALF OF JVATION, A WOOLPERT COMPANY		

 <p>JVIATION® A WOOLPERT COMPANY</p>	<p>OXNARD AIRPORT OXNARD, CA</p>  <p>COUNTY of VENTURA Department of Airports</p>	DES: T.A.R.	ISSUE RECORD				<p>RECONSTRUCTION OF TAXIWAY F</p>	<p>ELECTRICAL DETAILS</p>				SHEET NAME E252				
		DR: R.L.B.	NO.	BY	DATE	DESCRIPTION						SHEET NO.				
		CH: C.L.G.	1	J.D.I.	5/25/2023	ISSUED FOR BID						88 of 89				
		APP: J.D.I.	2	J.D.I.	6/20/2023	ADDENDUM NO. 2		DRAWING NO.								
								1673-DOA								

Printed June 20, 2023 @ 3:46 PM by Ambariantz, Zach
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3/15/2022 2:26:08 PM
William Chen



REV	APPROVED DATE	DESCRIPTION	JCN	REDLINE DATE	RPV
DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION					
OXNARD CALIFORNIA					
REVIEWED BY	SUBMITTED BY		APPROVED BY		
DESIGNED	ISSUED BY		DATE	JCN	
DRAWN			DRAWING NO		
CHECKED					REV

ISSUED FOR BID

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A WOOLPERT COMPANY

OXNARD AIRPORT
OXNARD, CA



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APP: J.D.I.				Exhibit 2

RECONSTRUCTION OF
TAXIWAY F

ELECTRICAL DETAILS

AIP PROJECT NO. 3-06-0179-043-2023
JVIATION PROJ. NO. 2023.OXR.01
SPEC. NO. DOA 23-03
COUNTY PROJ. NO. OXR-150

SHEET NAME
E253
SHEET NO.
89 of 89
DRAWING NO.
1674-DOA