

Date: July 16, 2025

Project: Presidio-Lely International Airport (PRS)
Construct PAPI-4s
AIP No.: 3-49-0024-066-2025

Project Description:

ADDENDUM NO. 1

To Plans and Contract Documents This addendum shall be a part of the Contract Documents and Plans to the same extent as though it were originally included therein, and it shall supersede anything contained in the Contract Documents and Plans with which it might conflict. Acknowledgement of receipt of this Addendum must be provided on the TxDOT bid form included in the contract documents.

The pre-bid meeting minutes have been included along with the sign-in sheet. The pre-bid meeting minutes include all questions asked during the pre-bid and the pre-bid site visit. Bidders can obtain the revised bid form Addendum No. 1 on the TxDOT website 'Plans Online' <https://ftp.txdot.gov/plans/Airport/2025/July/2424PRSDO>

Bidders must fill out the bid form electronically, print, acknowledge addendum and sign and submit a hard copy as part of their bid package. Revisions or additions made to the Contract Documents and Plans:

Questions:

- Q1. Several places TxDOT concrete is referred to in the plans, what class or PSI range will be required?
A1. TxDOT PCC shall comply with TxDOT specification 420, Class C, minimum compressive strength of 3,600 PSI.
- Q2. Specification show P-610, 4000 PSI concrete, where is this to be used?
A2. Specification P-610 is not a requirement but is an alternative to TxDOT specification referenced in A1.
- Q3. If the quantity of P-610 concrete is under 20 CY may a TxDOT 3500 or 4000 PSI Concrete be used in its place? There is only one supplier that would be able to meet the off load specification of 1 hour in Presidio.
A3. See A1.
- Q4. May an alternate foundation plan, possible by the PAPI manufacturer be use in place of the PAPI detail on sheet E-701?
A4. See Attachment 1 for acceptable alternate foundation design.
- Q5. On sheet E-601 Detail #5 Access Road Electrical Duct Bank Trench Repair Detail, may the detail be altered to use the CLSM in place of the base course and cap it with 6" of reinforced 3500 PSI concrete?
A5. See Attachment 1 for acceptable alternate road patch design.
- Q6. Will there be an additional pay item for the PAPI flight check.
A6. See Attachment 2 revised specification L-125 and revised Bid Sheet. PAPI flight check attendance has been added as a bid item.

Clarifications:

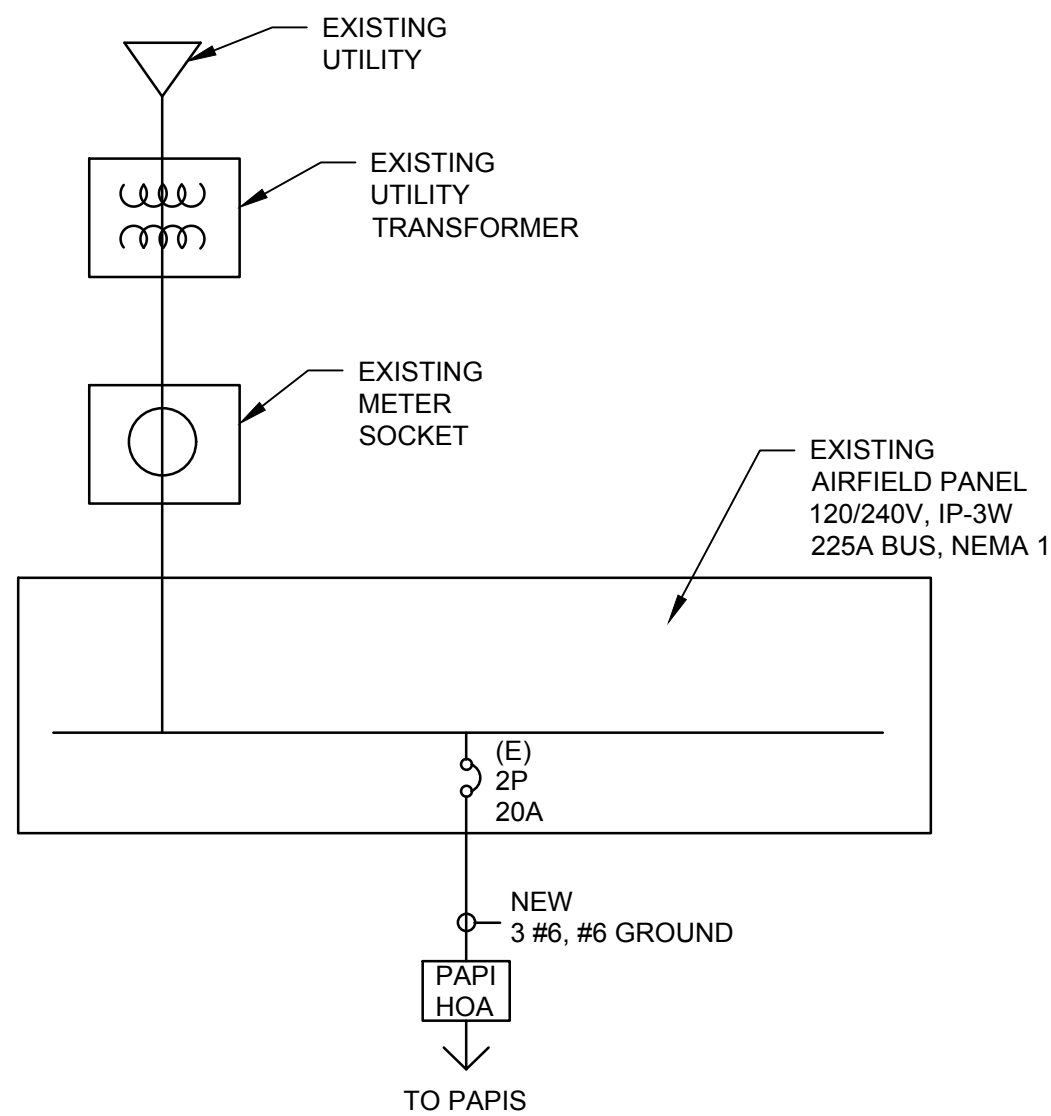
- C1. The specifications make multiple references to the approval of equipment and materials being made by either the Engineer or the RPR. The intent of these requirements is that the Engineer will review product and materials submittals prior to construction. During construction, the on-site RPR will monitor that the delivered materials or equipment are in compliance with the approved submittals.

Revisions:

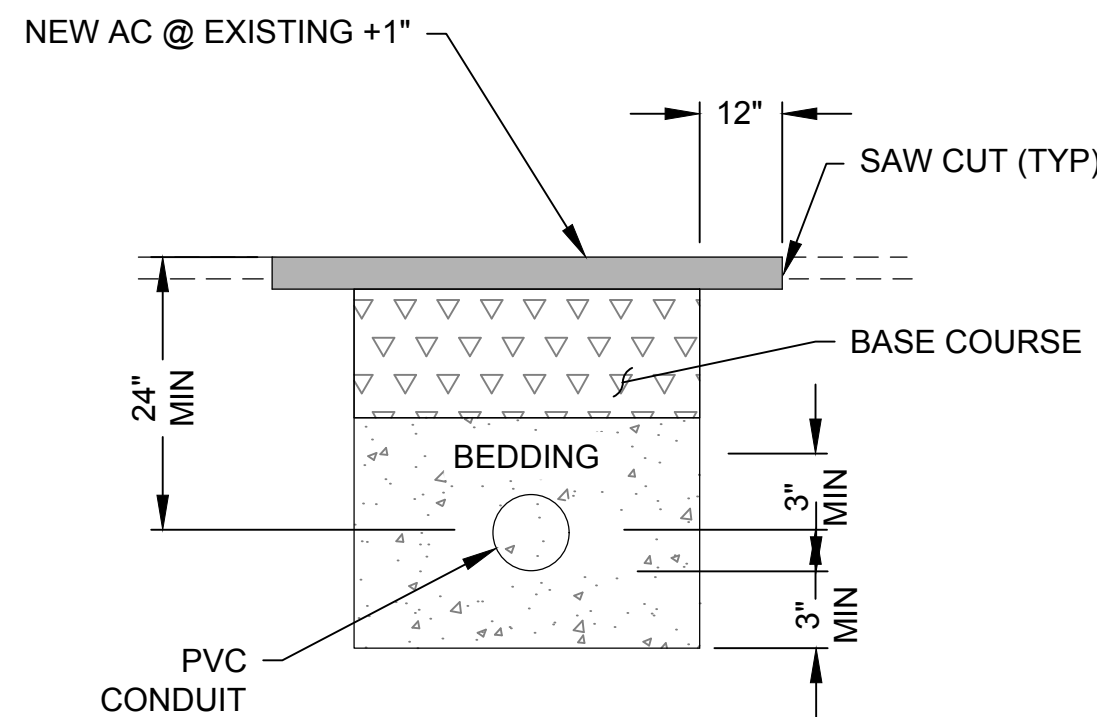
- R1. Modified Sheet E-601, Detail #5, Access Road Electrical Ductbank Trench Repair Detail
- R2. Modified Sheet E-701, Detail #2, Plan Unit Plan View (TYP) Detail.
- R3. Modified Sheet E-701, Detail #2, PAPI Lighting Unit (TYP) Detail: Alternate Foundation.
- R4. Revised specification L-125 to include flight check attendance with a bid item L-125-5.4.
- R5. Revised Bid Form to include flight check attendance under item L-125-5.4.

Attachments:

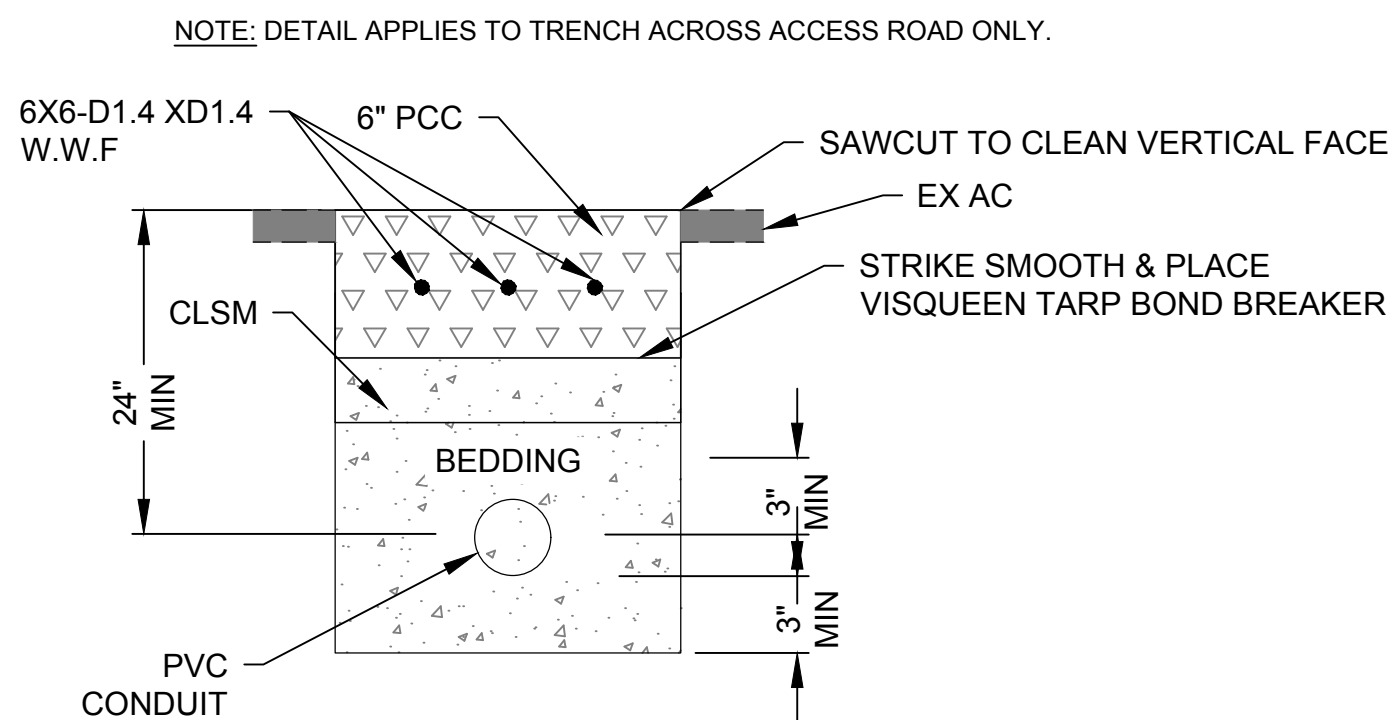
- Attachment 1: Revised plans
- Attachment 2: Revised specification L-125
- Attachment 3: Bid Form
- Attachment 4: Pre-bid sign-in sheet



4 AIRFIELD PANEL PARTIAL ONE LINE DIAGRAM
NOT TO SCALE

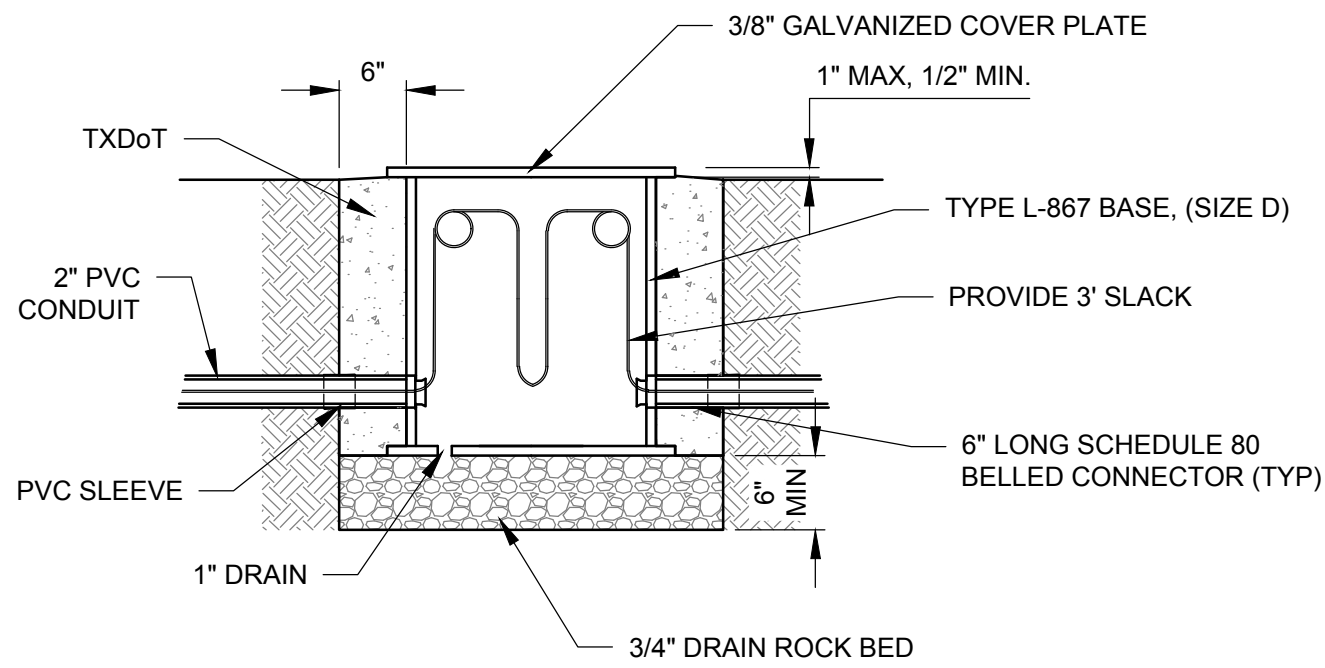


5 ACCESS ROAD ELECTRICAL DUCTBANK TRENCH REPAIR DETAIL
NOT TO SCALE



5 ACCESS ROAD ELECTRICAL DUCTBANK ALTERNATE TRENCH REPAIR DETAIL
NOT TO SCALE

NOTE: DETAIL APPLIES TO TRENCH ACROSS ACCESS ROAD ONLY.



NOTES:
1. INSTALL GROUND ROD AND GROUND WIRE SIMILAR TO ELEVATED TAXIWAY EDGE LIGHT DETAIL

3 L-867 PULL CAN/JUNCTION CAN
NOT TO SCALE

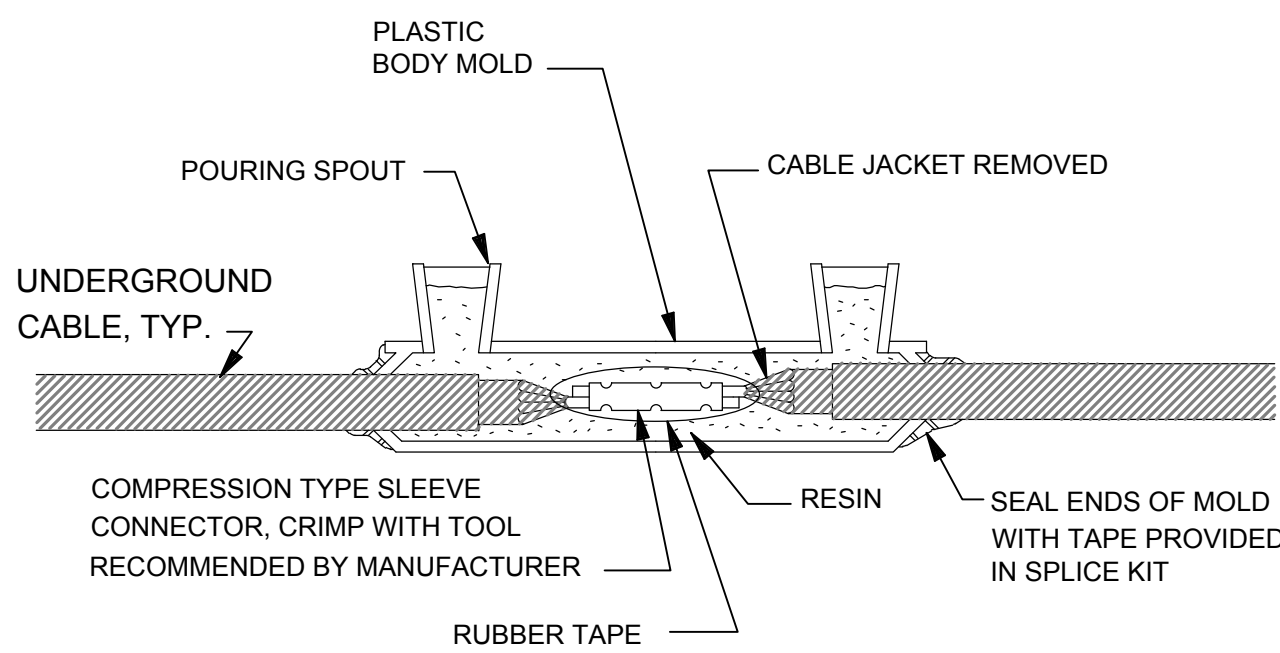
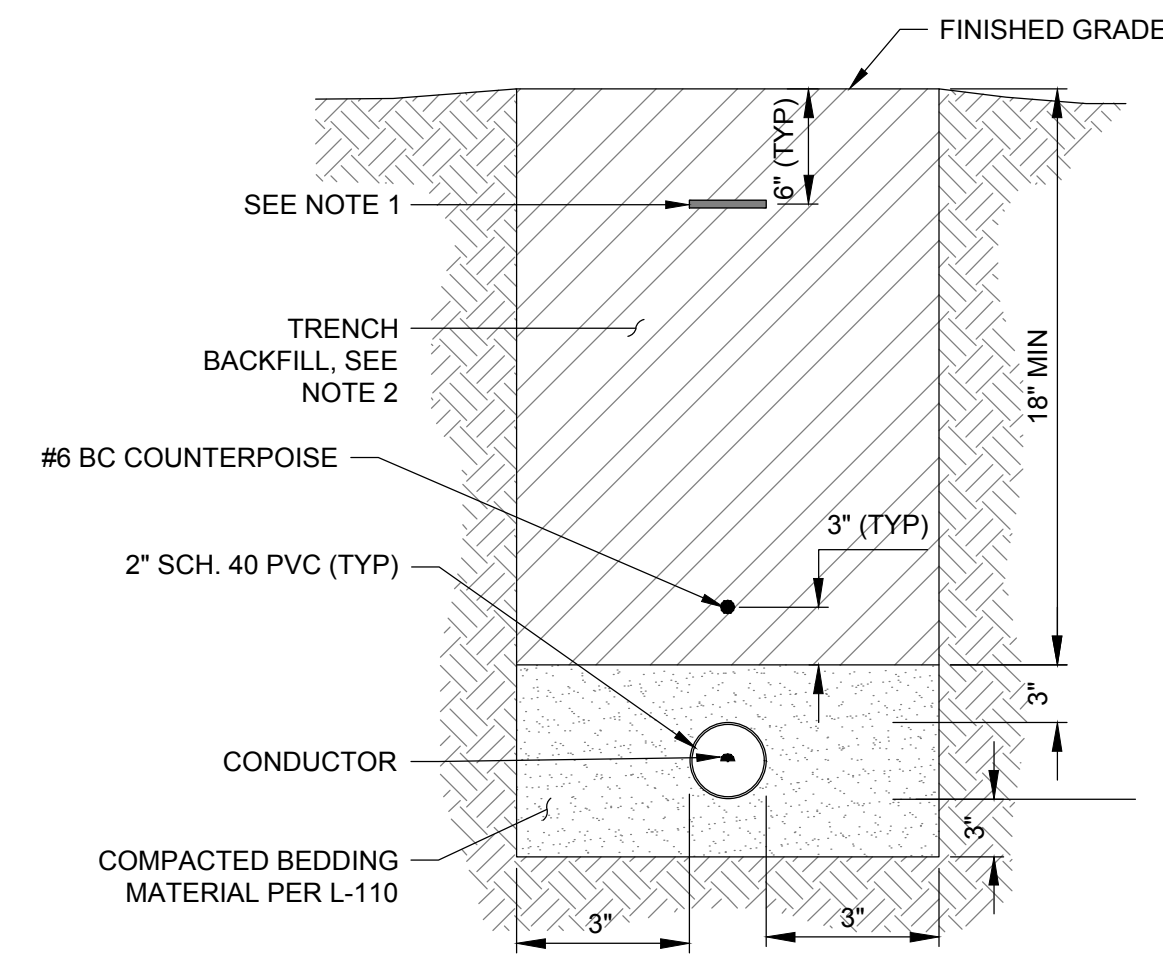


FIGURE C
FOR 600V SPLICES ONLY



DUCT BANK NOTES:

1. INSTALL AN APPROVED RED PLASTIC, DETECTABLE, MAGNETIC, 6" WIDE TAPE 6" BELOW FINISHED GRADE ABOVE ALL PORTIONS OF DUCT BANKS AND CONDUITS IN TURF.
2. BACKFILL SHALL BE EARTH FILL COMPACTED IN ACCORDANCE WITH P-152.

1 ELECTRICAL DUCT BANK
NOT TO SCALE

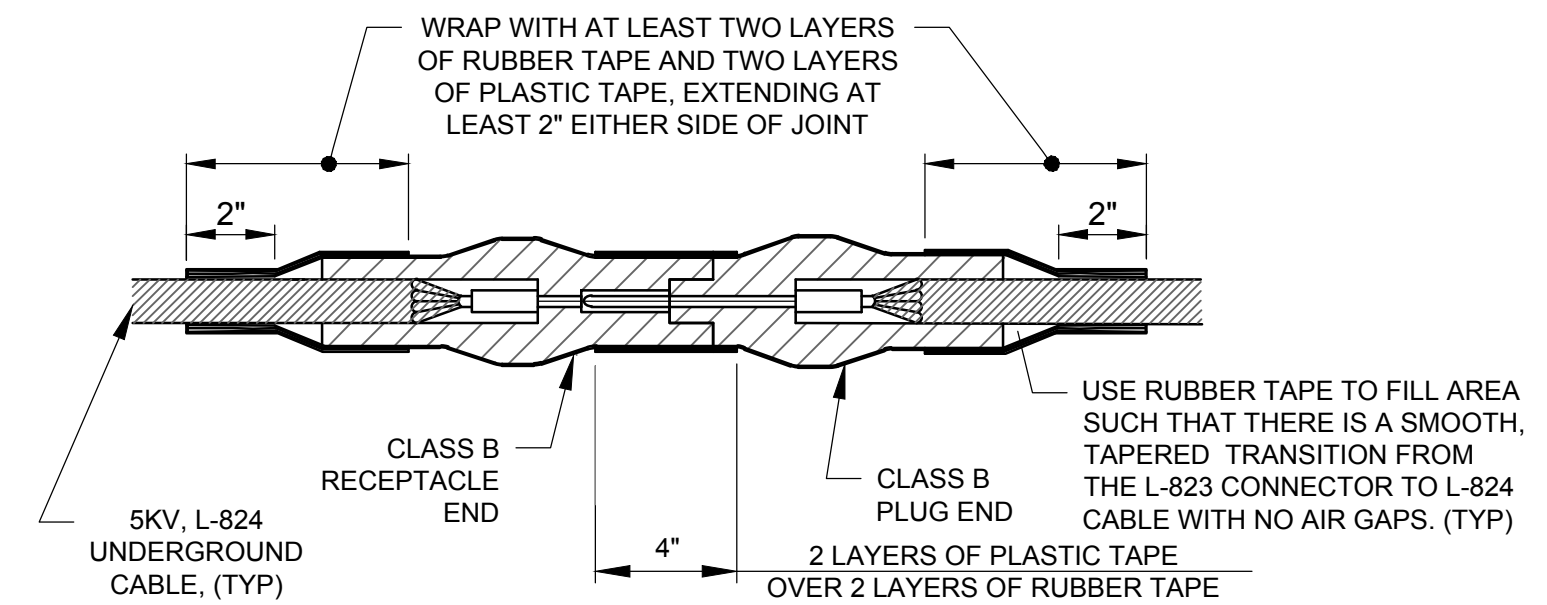
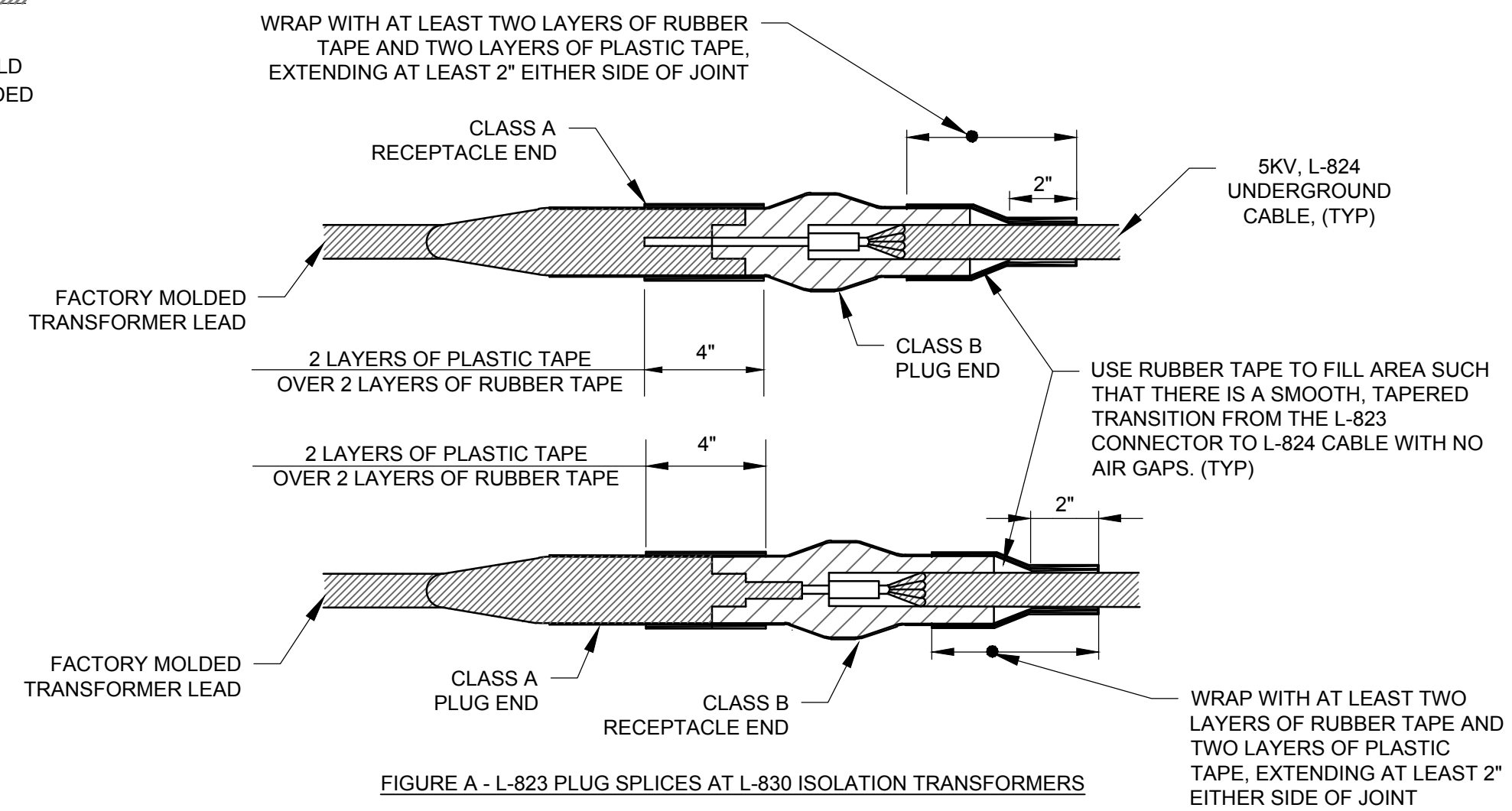


FIGURE B - L-823 CONNECTORS USED AT 5KV CABLE SPLICES



NOTE:

1. ALL SPLICES IN MANHOLES, IF ALLOWED, SHALL BE PER FIGURE B.

2 L-823 CABLE SPLICE WATERPROOFING
NOT TO SCALE

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PRESIDIO LELY INTERNATIONAL AIRPORT
RUNWAY 17-35 INSTALLATION OF PAPI-4S

98821 US HIGHWAY 67 STE 2
PRESIDIO, TX 79845

ISSUED

M&H NO.: 3084900-240924.01
DATE: JUL 16, 2025
DESIGNED BY: DAB
DRAWN BY: BER
CHECKED BY: CAS
DO NOT SCALE DRAWINGS

SHEET CONTENTS
ELECTRICAL DETAILS

SHEET NO.
20 of 22

E-601

Item L-125 Installation of Airport Lighting Systems

DESCRIPTION

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

EQUIPMENT AND MATERIALS

125-2.1 General.

a. Airport lighting equipment and materials covered by Federal Aviation Administration (FAA) specifications shall be certified under the Airport Lighting Equipment Certification Program in accordance with AC 150/5345-53, current version. FAA certified airfield lighting shall be compatible with each other to perform in compliance with FAA criteria and the intended operation. If the Contractor provides equipment that does not perform as intended because of incompatibility with the system, the Contractor assumes all costs to correct the system for to operate properly.

b. Manufacturer's certifications shall not relieve the Contractor of their responsibility to provide materials in accordance with these specifications and acceptable to the RPR. Materials supplied and/or installed that do not comply with these specifications shall be removed, when directed by the RPR and replaced with materials, which do comply with these specifications, at the sole cost of the Contractor.

c. All materials and equipment used shall be submitted to the RPR for approval prior to ordering the equipment. Submittals consisting of marked catalog sheets or shop drawings shall be provided. Clearly mark each copy to identify pertinent products or models applicable to this project. Indicate all optional equipment and delete non-pertinent data. Submittals for components of electrical equipment and systems shall identify the equipment for which they apply on each submittal sheet. Markings shall be clearly made with arrows or circles (highlighting is not acceptable). The Contractor shall be responsible for delays in the project accruing directly or indirectly from late submissions or resubmissions of submittals.

d. The data submitted shall be sufficient, in the opinion of the RPR, to determine compliance with the plans and specifications. The Contractor's submittals shall be submitted in electronic PDF format, tabbed by specification section. The RPR reserves the right to reject any or all equipment, materials or procedures, which, in the RPR's opinion, does not meet the system design and the standards and codes, specified herein.

e. All equipment and materials furnished and installed under this section shall be guaranteed against defects in materials and workmanship for a period of at least twelve (12) months from final acceptance by the Owner. The defective materials and/or equipment shall be repaired or replaced, at the Owner's discretion, with no additional cost to the Owner.

All LED light fixtures, with the exception of obstruction lighting (AC 150/5345-43) must be warranted by the manufacturer for a minimum of 4 years after date of installation inclusive of all electronics.” Obstruction lighting warranty is set by the individual manufacturer.

EQUIPMENT AND MATERIALS

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

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

125-2.4 Tape. Electrical tapes shall be Scotch™ Electrical Tapes –Scotch™ 88 (1-1/2 inch wide) and Scotch™ 130C® linerless rubber splicing tape (2-inch wide), as manufactured by the Minnesota Mining and Manufacturing Company (3M™), or an approved equivalent.

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

125-2.6 Retroreflective Markers. Not used this project.

125-2.7 Runway and Taxiway Lights. Not used this project.

125-2.8 Runway and Taxiway Signs. Not used this project.

125-2.9 Runway End Identifier Light (REIL). Not used this project.

125-2.10 LED Precision Approach Path Indicator (PAPI). The light units for the LED PAPI shall meet the requirements of AC 150/5345-28, Type L-880(L), Style A, Class II. The PAPI Control Unit (PCU) shall be integrated in one of the PAPI units, so there will not be a PCU rack at the PAPI locations.

125-2.11 Circuit Selector Cabinet. Not used this project.

125-2.12 Light Base and Transformer Housings. Light Base and Transformer Housings should conform to the requirements of AC 150/5345-42. Light bases shall be Type L-867 or L-868, Class 1A, Size B shall be provided as indicated or as required to accommodate the fixture or device installed thereon. Base plates, cover plates, and adapter plates shall be provided to accommodate various sizes of fixtures.

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

125-2.14 Miscellaneous Electrical Equipment. In addition to the fixture requirements, the Contractor shall provide the following miscellaneous electrical equipment:

LED PAPIs

With different PAPI designs, provide spares to meet minimum requirements, modified as needed, per manufacturer recommendations. Include, but not limited to:

- 1-Input Power Board (Voltage Driven)
- 1- Control Board Replacement Kit
- 1-Optical Box Assembly
- 1-Complete set of fuses (for all four LHA units)

1-LED Light Engine Replacement Kit

1-Front Heated Glass Replacement Kit

INSTALLATION

125-3.1 General. Cable installation shall be in conformance with Item L-108 of these Specifications. Duct installation shall be in conformance with Item L-110 of these Specifications. The maximum number of voltage of cables installed in each conduit or duct, and the current carrying capacity of each cable, shall be in accordance with the N.E.C., or the code of the local agency having jurisdiction, whichever is more restrictive.

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

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

The Contractor shall make sure that the duct is open, continuous and clear of water and debris before installing cable, conduit or other electrical item, such as fixture, sign or navaid. The cable shall be installed in a manner to prevent harmful stretching of the conductor, injury to the insulation. Or damage to the outer protective jacket. The ends of all cables shall be sealed with moisture-seal tape before pulling into the conduit and it shall be left sealed until final connections are made. Where more than one cable is to be installed in a duct under the same project, all cables shall be pulled in the duct at the same time. The pulling of a cable through ducts or conduits may be accomplished by hand winch or power winch with the use of cable grips or pulling eyes or bends. A lubricant recommended for the type of cable being installed shall be used where pulling lubricant is required.

Contractor shall replace any sheared bolts with new, including re-threading the bolt holes on existing base cans, incidental to the bid item.

125-3.2 Restoration. All area disturbed by the trenching, storing of dirt/soil/material, cable laying, pad construction, fixture installation, and other work shall be restored to an acceptable condition as approved by the Engineer and shall be incidental to the respective bid item.

125-3.3 Demolition of existing PLASIs and Appurtenances. The Contractor shall carefully remove the existing PLASIs as shown on the Plans. This shall include removing the corresponding base cans, foundations, and airfield conduit and wiring. This bid item shall include restoration of the affected area to match the existing surrounding area, including acceptable fill and seeding, along with other incidentals as necessary. The Contractor shall coordinate with the Airport for a salvage area where removed PLASIs shall be stored. When the last removed item is placed in the salvage area, the Airport shall have 5 business days to go through and salvage any item(s) for spare parts. Anything left in the salvage area after the 5 business days become property of the Contractor and shall be disposed of off-site. The Contractor shall restore the salvage area to previous conditions after removing the removed items off-site.

125-3.4 Install LED PAPIs. The Contractor shall install the new LED PAPI system at the location(s) shown on the Plans. The installation shall follow Plan details and manufacturer's instructions. This work shall include all work inside the ground ring. Cable and conduit to the voltage powered PAPIs (up to the grounding ring) shall be paid for under other bid item(s). New cable shall be installed to the existing panel in the electrical building.

This shall also include any modifications or changes to the PAPI aiming during the flight check. Contractor shall be on-site to perform any changes as required by the flight check team.

125-3.5 Shipping and Storage. Equipment shall be shipped in suitable packing material to prevent damage during shipping. Store and maintain equipment and materials in areas protected from weather and physical damage. Any equipment and materials, in the opinion of the RPR, damaged during construction or storage shall be replaced by the Contractor at no additional cost to the owner. Painted or galvanized surfaces that are damaged shall be repaired in accordance with the manufacturer's recommendations.

125-3.6 Miscellaneous Lighting Equipment. The Contractor shall deliver the miscellaneous lighting equipment to the Airport as specified above.

125-3.7 Testing. The Contractor shall furnish all necessary equipment and appliances for testing the underground cable circuits after installation. The Contractor shall test and demonstrate to the satisfaction of the Engineer the following:

- A. That all lighting power and control circuits are continuous and free from shorts.
- B. That all circuits are free from unspecified grounds and that the initial insulation resistance to ground of all non-grounded series circuits is not less than 500 megohms. The circuits shall maintain a minimum 50 megohms for the duration of the 12 month warranty period.
- C. That the insulation resistance to ground of all non-grounded conductors of multiple circuits is not less than 50 megohms.
- D. That all circuits are properly connected in accordance with applicable wiring diagrams.
- E. That all circuits are operable. Tests shall be conducted that include operating each control not less than ten (10) times before and after the continuous operation of each lighting and power circuit for not less than 24 hour.
- F. The insulation to resistance to ground test shall be conducted using a digital megohm meter that has the ability to use test voltage of 1,000V.

METHOD OF MEASUREMENT

125-4.1 Precision Approach Path Indicator shall be measured by each system (set) installed as a completed unit, in place, ready for operation, and accepted by the RPR.

125-4.2 Demolish Airfield PLASI System and Appurtenances shall be measured by lump sum for removal of the PLASI System, foundations, wires / conduits to electrical vault, and boxes / cans unit, area restored, and accepted by the RPR. Measurement is lump sum for the entirety of the Runway, and shall not be measured individually per PLASI.

125-4.3 Miscellaneous Lighting Equipment will be measured per lump sum, delivered and accepted by the RPR.

125-4.4 Flight Check Attendance shall be measured per each, and shall include all travel time and necessary work to adjust the PAPI systems to pass the flight check inspection. Flight Check Attendance shall include both ends of the runway and all effort to bring the system into compliance.

BASIS OF PAYMENT

125-5.1 Payment will be made at the Contract unit price for each complete precision approach path indicator installed by the Contractor and accepted by the RPR. This payment will be full compensation

for furnishing all materials and for all preparation, assembly, and installation of these materials, and for all labor, equipment, tools and incidentals necessary to complete this item.

125-5.2 Payment will be made at the Contract unit price for Demolition of the Airfield PLASI System and Appurtenances by the Contractor as accepted by the RPR. This payment will be full compensation for all labor, equipment, tools and incidentals necessary to remove and restore the area to match the surroundings.

125-5.3 Miscellaneous Lighting Equipment will be paid at the Contract unit price per lump sum, furnished and delivered by the Contractor. This price shall include full compensation to furnish all materials, labor, incidentals and associated items as are applicable to complete this item.

125-5.4 Flight Check Attendance will be paid at the Contract unit price per each. This payment will be full compensation for all labor, equipment, tools, travel, and incidentals necessary to have the PAPI system (both ends of the runway) pass flight check.

Payment will be made under:

Item 125-5.1	Install LED PAPI, L-880(L), per set
Item 125-5.2	Demolish Airfield PLASI System and Appurtenances, per lump sum
Item 125-5.3	Miscellaneous Lighting Equipment, per lump sum
Item 125-5.4	Flight Check Attendance, 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.

Advisory Circulars (AC)

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

AC 150/5345-47	Specification for Series to Series Isolation Transformers for Airport Lighting Systems
AC 150/5345-51	Specification for Discharge-Type Flashing Light Equipment
AC 150/5345-53	Airport Lighting Equipment Certification Program
Engineering Brief (EB)	
EB No. 67	Light Sources Other than Incandescent and Xenon for Airport and Obstruction Lighting Fixtures

END OF ITEM L-125



**SIGN-IN SHEET
PRE-BID CONFERENCE
PRESIDIO LELY INTERNATIONAL AIRPORT
RUNWAY 17-35 INSTALLATION OF PAPI-4s
CSJ NO.: 2424PRSDO
JULY 9, 2025, 11:00 AM**



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