



**CITY OF SULLIVAN, MISSOURI
AND
SULLIVAN REGIONAL AIRPORT
ADDENDUM NO. 1**

for

MoDOT PROJECT NO. 25-112B-2

**BASE BID: REPLACE RUNWAY 6-24 EDGE LIGHTING AND VAULT
ALTERNATE NO. 1: REPLACE PRIMARY WIND CONE
ALTERNATE NO. 2: REPLACE RUNWAY 6-24 PAPI
ALTERNATE NO. 3: REPLACE BEACON ON EXISTING POLE
ALTERNATE NO. 4: INSTALL RUNWAY 6-24 REILS**

MAY 5, 2025

Prepared By:



**Crawford, Murphy & Tilly
Consulting Engineers
St. Louis, Missouri**

22004959.00

ADDENDUM NO. 1

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This addendum is herewith a part of the Contract Documents of the above issued project, and is issued to amend and supplement the April 14, 2025 construction plan drawings, proposal, contract documents and specifications.

The **CONTRACT DOCUMENTS** are revised as follows:

SECTION 5 – TECHNICAL SPECIFICATIONS:

ITEM L-108 UNDERGROUND POWER CABLE FOR AIRPORTS

REVISE: BASIS OF PAYMENT, Third paragraph, Item L-108-5.1 to read, “1/C #8 L-824, Type C, 5KV Cable in 1” Unit Duct”

BID PROPOSAL, BONDS AND CONTRACT FORMS

PROPOSAL FORMS – PROPOSAL FORM (page 391):

REVISE: Bid Item 5, Item Description to read, “1/C #8, L-824, TYPE C, 5KV CABLE IN 1” UNIT DUCT”

APPENDICES

CONSTRUCTION SAFETY AND PHASING PLAN

REVISE: CHAPTER 2. PHASING, A. Phase Elements, PHASE 1:, paragraph three to read,

“Phase 1 shall be completed within 35 consecutive calendar days, due to impact to the runway and airport. Work on Phase 1 requiring the closure of Runway 6-24 may only occur between the hours of 8 AM Monday morning through 5 PM Thursday evening. A fully lit and operational Runway 6-24 must be available at the end of work on each Thursday. Phase 1 may be completed concurrently with any other phase.”

REVISE: Phasing: Phasing Table, Page 1 of 3, Phase 1, Sequence Info to add:

“Work on Phase 1 requiring the closure of Runway 6-24 may only occur between the hours of 8 AM Monday morning through 5 PM Thursday evening. A fully lit and operational Runway 6-24 must be available at the end of work on each Thursday.”

The **CONSTRUCTION PLANS** are revised as follows:

Sheet 2 of 30, SUMMARY OF QUANTITIES

REVISE: BASE BID, L-108-5.1 Line Item to read, “1/C, #8, L-824, TYPE C, 5KV CABLE IN 1” UNIT DUCT”

Sheet 3 of 30, CSPP NOTES

REVISE: Section 2. Phasing, Phase 1 Notes, Note 3 to read, “Phase 1 work is limited to 35 consecutive calendar days. Work on Phase 1 requiring the closure of Runway 6-24 may only occur between the hours of 8 AM Monday morning through 5 PM Thursday evening. A fully lit and operational Runway 6-24 must be available at the end of work on each Thursday.”

Sheet 5 of 30, CONSTRUCTION ACTIVITY PLAN – PHASE 1

REVISE: Sheet Notes, Note 3 to read, “Phase 1 work is limited to 35 consecutive calendar days. Work on Phase 1 requiring the closure of Runway 6-24 may only occur between the hours of 8 AM Monday morning through 5 PM Thursday evening. A fully lit and operational Runway 6-24 must be available at the end of work on each Thursday.”

Sheet 17 of 30, PROPOSED ELECTRICAL PLAN 3

DELETE: This Sheet

ADD: Attached Sheet

CLARIFICATION: Location of 24 PAPI revised to set LHA beams one foot above new runway reference point, due to grade conflicts at the outer LHA box because of rising ground.

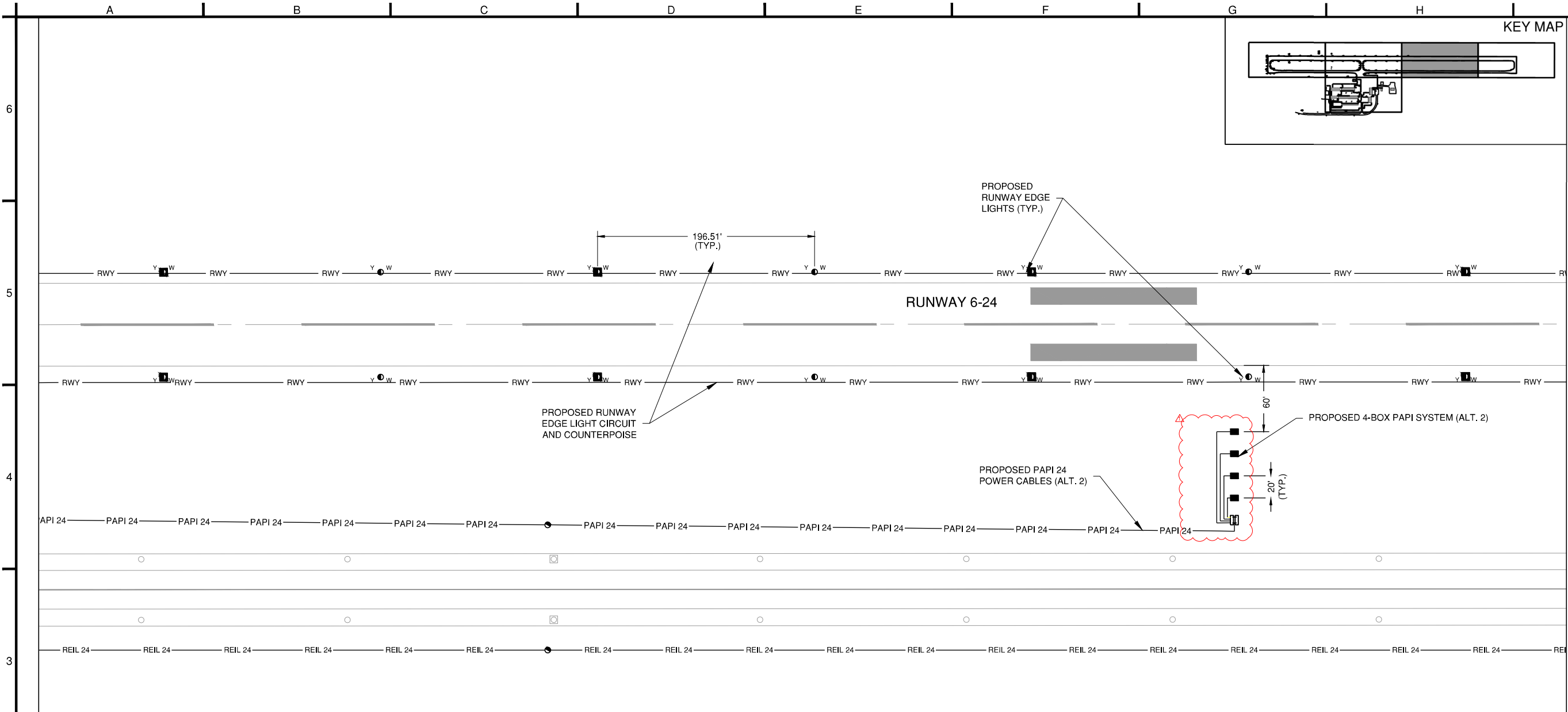
Sheet 23 of 30, ELECTRICAL DETAILS 4

DELETE: This Sheet

ADD: Attached Sheet

CLARIFICATION: Location of 24 PAPI revised to set LHA beams one foot above new runway reference point, due to grade conflicts at the outer LHA box because of rising ground. 6 PAPI distance from threshold also revised.

CONSTRUCTION PLANS

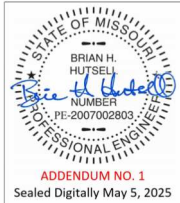
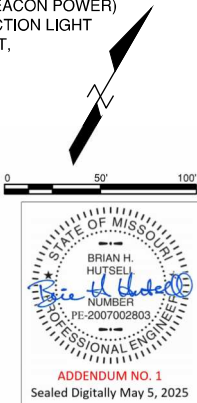


GENERAL NOTES

1. RUNWAY EDGE LIGHTS SHALL BE INSTALLED 10 FEET FROM THE EDGE OF FULL-STRENGTH PAVEMENT.
2. COUNTERPOISE NOT SHOWN FOR CLARITY. CONTRACTOR SHALL INSTALL #6 BARE COPPER COUNTERPOISE WITH RUNWAY EDGE LIGHTING CIRCUIT AS INDICATED IN DETAILS.
3. CONTRACTOR SHALL FIELD INVESTIGATE TO ENSURE THAT EXISTING UNDERGROUND UTILITIES ARE NOT DISTURBED OR DAMAGED DURING CONSTRUCTION. ANY UTILITY THAT IS DAMAGED BY THE CONTRACTOR SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE IN A MANNER WHICH IS SATISFACTORY TO BOTH THE ENGINEER AND THE OWNER OF THE UTILITY.
4. CONTRACTOR SHALL INSTALL NEW L-880(L) LED PAPI LHA'S AND PCU'S ON NEW FOUNDATIONS FOR RUNWAYS 6 AND 24. PAPI INSTALLATIONS SHALL INCLUDE 2 X #10 XLP-USE, #10 GND IN UNIT DUCT FOR NEW PAPI CURRENT SENSOR IN NEW BASE CAN. SEE PAPI DETAILS ON SHEET E-5103 (ADD. ALT 2).
5. CONTRACTOR SHALL INSTALL NEW L-807(L) LED WINDCONE, AND L-810(L) OBSTRUCTION LIGHT ON EXISTING WINDCONE POLE. CONTRACTOR SHALL INSTALL NEW WINDCONE EQUIPMENT PEDESTAL. SEE WINDCONE DETAIL ON SHEET E-5105 (ADD. ALT 1).
6. CONTRACTOR SHALL INSTALL NEW L-849(L) LED REIL AND REIL POWER PEDESTALS FOR RUNWAYS 6 AND 24 ON NEW FOUNDATIONS. REIL INSTALLATIONS SHALL INCLUDE 2 X #10 XLP-USE, #10 GND IN UNIT DUCT FOR NEW REIL CURRENT SENSOR IN EXISTING CAN. SEE REIL DETAILS ON SHEET E-5104 (ADD. ALT 4).
7. CONTRACTOR SHALL INSTALL NEW L-801A(L) LED AIRPORT BEACON FIXTURE AND NEW L-810(L) OBSTRUCTION LIGHT ON EXISTING BEACON TOWER. BEACON AND OBSTRUCTION LIGHT FIXTURES SHALL BE ON SEPARATE CIRCUITS. COORDINATE WITH BEACON MANUFACTURER TO PROVIDE NEW BEACON ATTACHMENT ON EXISTING TOWER. SEE DETAILS ON E-5105. (ADD. ALT 3).
8. RUNWAY 6/24 CIRCUIT SHALL CONNECT TO NEW RUNWAY 6/24 REGULATOR IN AIRFIELD LIGHTING VAULT. SEE VAULT DETAIL SHEETS..
9. SEE ELECTRICAL VAULT PLANS FOR MORE INFORMATION ON REIL, PAPI, WINDCONE, AND BEACON POWER CIRCUITS (ADD. ALTS 1, 2, 3, 4)
10. DISCONNECT EXISTING CONNECTOR TAXIWAY LIGHTS FROM RUNWAY EDGE LIGHTING CIRCUIT AND CONNECT TO EXISTING TAXIWAY EDGE LIGHTING CIRCUIT. SPLICE NEW TAXIWAY CIRCUIT SEGMENTS TO EXISTING TAXIWAY CIRCUIT IN EXISTING TAXIWAY LIGHT BASE CANS OR AT EXISTING STAKE-MOUNTED LIGHT.
11. EXISTING APRON LIGHTING POLES AND LED FIXTURES TO REMAIN. CONTRACTOR SHALL INSTALL NEW APRON LIGHTING CIRCUIT POWERED FROM NEW AIRFIELD LIGHTING VAULT.
12. CONTRACTOR SHALL INSTALL 480V AND 5KV AIRFIELD CIRCUITS IN SEPARATE DUCTS. CONTRACTOR SHALL UTILIZE EXISTING DUCTS WHERE POSSIBLE, AND BORE NEW DUCTS AS NEEDED FOR ROUTING OF AIRFIELD CIRCUITS.

SHEET LEGEND

- | | | | |
|--|--|-------------|---|
| | PROPOSED BASE-MOUNTED MEDIUM-INTENSITY LED RUNWAY EDGE LIGHT (WHITE/WHITE OR WHITE/YELLOW PER PLANS) | — REIL 24 — | PROPOSED 2 X #8 XLP-USE, 1 X #8 GND TO RUNWAY 24 REIL IN 1" UNIT DUCT, DIRECT BURIED (ADD. ALT 4) |
| | PROPOSED STAKE-MOUNTED MEDIUM-INTENSITY LED RUNWAY EDGE LIGHT ON EXISTING BASE CAN (WHITE/WHITE OR WHITE/YELLOW PER PLANS) | — PAPI 6 — | PROPOSED 2 X #10 XLP-USE, 1 X #10 GND TO RUNWAY 6 PAPI IN 1" UNIT DUCT, DIRECT BURIED (ADD. ALT 2) |
| | PROPOSED STAKE-MOUNTED LED RUNWAY THRESHOLD LIGHT (GREEN/RED) | — PAPI 24 — | PROPOSED 2 X #10 XLP-USE, 1 X #10 GND TO RUNWAY 24 PAPI IN 1" UNIT DUCT, DIRECT BURIED (ADD. ALT 2) |
| | PROPOSED BASE-MOUNTED LED RUNWAY THRESHOLD LIGHT (GREEN/RED) | — WIND — | PROPOSED 2 X #12 XLP-USE, 1 X #12 GND TO WINDCONE IN 1" UNIT DUCT, DIRECT BURIED (ADD. ALT 1) |
| | PROPOSED STAKE-MOUNTED MEDIUM INTENSITY LED TAXIWAY EDGE LIGHT (RUNWAY EXIT LIGHTS) | — BEACON — | PROPOSED 2 X #12 XLP-USE, 1 X #12 GND (BEACON POWER) AND 2 X #12 XLP-USE, 1 X #12 GND (OBSTRUCTION LIGHT POWER) TO BEACON TOWER IN 1" UNIT DUCT, DIRECT BURIED (ADD. ALT 3) |
| | PROPOSED REIL (ADD. ALT 4) | | |
| | PROPOSED PAPI LHA (ADD. ALT 2) | | |
| | PROPOSED L-824, 1/C, #8, 5KV RUNWAY LIGHTING CIRCUIT IN 1" UNIT DUCT, DIRECT BURIED | | EXISTING CONCRETE-ENCASED DUCT BANK |
| | PROPOSED L-824, 1/C, #8, 5KV TAXIWAY LIGHTING CIRCUIT IN 1" UNIT DUCT, DIRECT BURIED. | | PROPOSED WINDCONE (ADD. ALT 1) |
| | PROPOSED 2 X #10, #10 GND IN 1" CONDUIT FOR APRON LIGHTING CIRCUIT | | PROPOSED BEACON (ADD. ALT 3) |
| | PROPOSED 2 X #8 XLP-USE, #8 GND TO RUNWAY 6 REIL IN 1" UNIT DUCT, DIRECT BURIED (ADD. ALT 4) | | PROPOSED DUCT BANK |
| | | | PROPOSED SPLICE CAN |
| | | | PROPOSED SIZE 2, STYLE 2 AIRFIELD GUIDANCE SIGN ON NEW PCC PAD |



The Professional Engineer's seal affixed to this sheet applies only to the material and items shown on this sheet. All drawings, instruments or other documents not exhibiting this seal shall not be considered prepared by this engineer, and this engineer expressly disclaims any and all responsibility for such plan, drawings or documents not exhibiting this seal.

ADDENDUM NO. 1



REVISION	DESCRIPTION	DATE	APPROVED
1	ADDENDUM NO. 1	5-5-2025	BHH

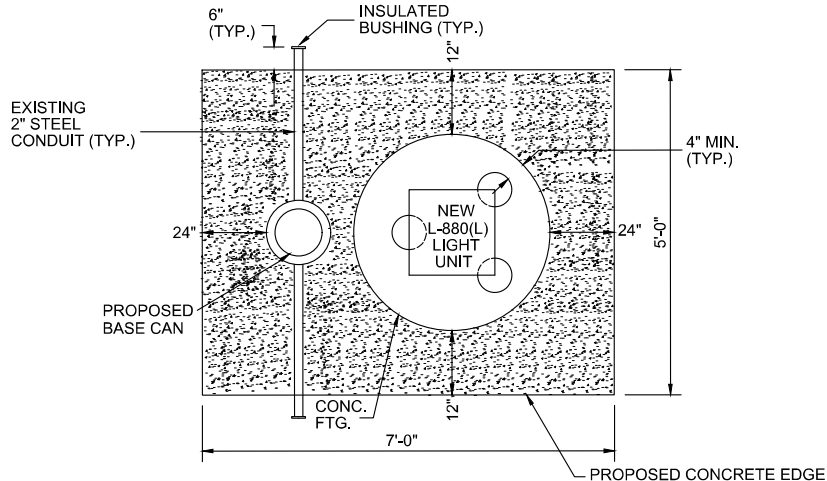
Designed by:	Approved by:	Project Date:
CMT	BHH	5-5-2025
Drawn by:	Check by:	Plot Scale:
CMT	BHH	
Plot Date:	Plot By:	File Name:
5-May-25 12:51	Brian Hutsell	At Full Size Sheet 22"x34"
Page Size:	File Name:	Airfield Project No.:
E-100 ELECTRICAL PLANDWG	TBD	24004895-00

FRANKLIN COUNTY, MISSOURI	SULLIVAN REGIONAL AIRPORT
1249 AIRPORT ROAD	SULLIVAN, MO 63080

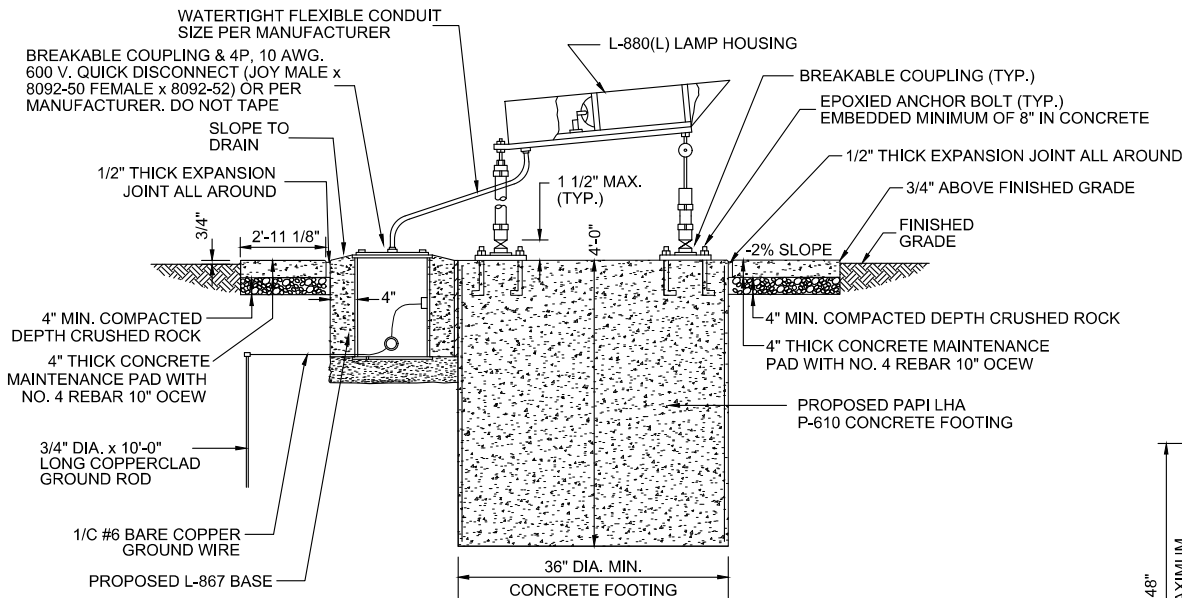


PROJECT NO. 25-112B-2 LIGHTING REHABILITATION	PROPOSED ELECTRICAL PLAN 3
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25-112B-2 Sheet 17 of 30 Drawing: E-1103 VOL. 1 of 1



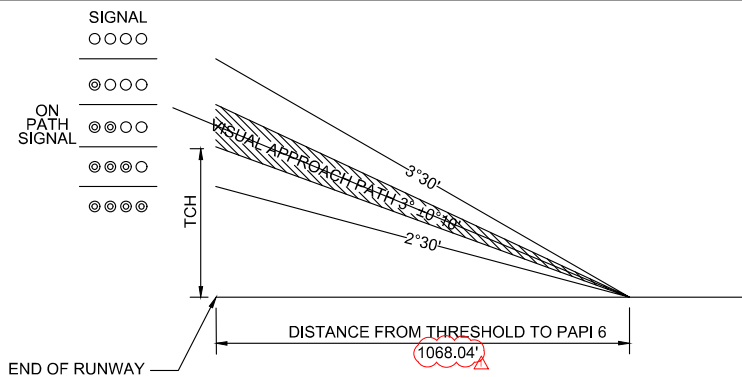
1 PAPI FOOTING PLAN
N.T.S.



4 PAPI SIDE ELEVATION
N.T.S.

NOTES:

1. POWER/CONTROL WIRES BETWEEN PCU AND LHAS SHALL BE PER PAPI MANUFACTURER.



2 RUNWAY 6 TYPICAL PROFILE
N.T.S.

AIMING OF TYPE L-880(L) (4-BOX) LED PAPI
RELATIVE TO PRESELECTED GLIDE PATH (3°00')

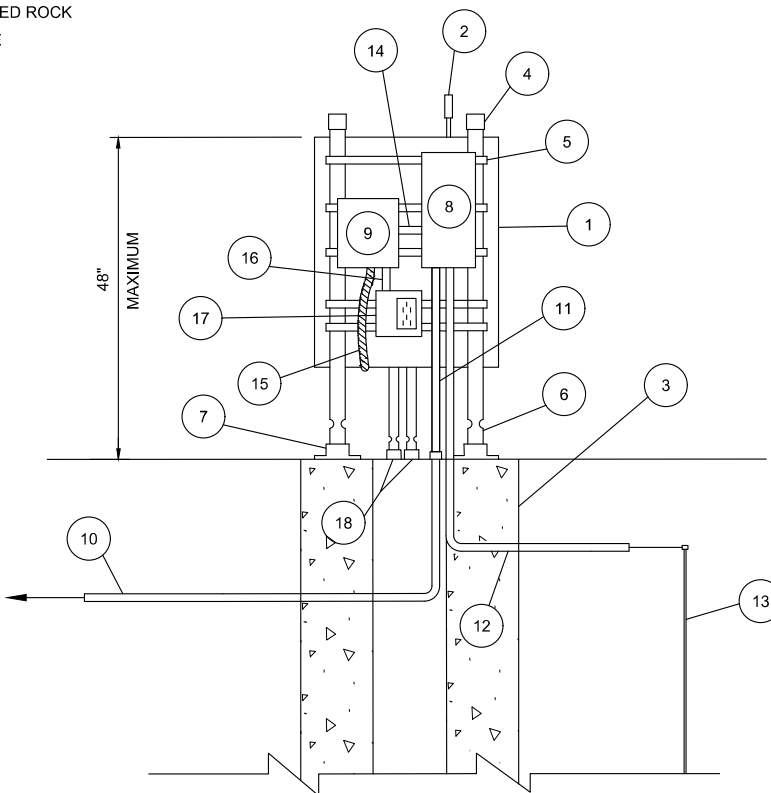
LIGHT UNIT	AIMING ANGLE (IN MINUTES OF ARC)
	STANDARD INSTALLATION
UNIT NEAREST RUNWAY	30' ABOVE GLIDE PATH
NEXT ADJACENT UNIT	10' ABOVE GLIDE PATH
NEXT ADJACENT UNIT	10' BELOW GLIDE PATH
NEXT ADJACENT UNIT	30' BELOW GLIDE PATH

RUNWAY	6	24
HEIGHT GROUP USED FOR SITING	1	1
THRESHOLD STATIONING	10+00	55+00
THRESHOLD ELEVATION	933.00	924.00
THRESHOLD CROSSING HEIGHT	40'	52'
STATION FOR PAPIs	20+68.04	44+14.21
GLIDE PATH ANGLE*	3°	3°
RUNWAY REFERENCE POINT ELEVATION	920.05	926.23
LHA BEAM ELEVATION	920.05	927.23

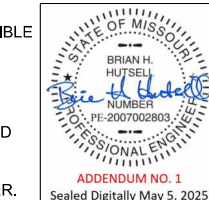
* THE VISUAL GLIDE PATH ANGLE IS THE CENTER OF THE
ON COURSE ZONE AND IS MEASURED FROM THE HORIZONTAL

PAPI POWER DETAIL LEGEND

- PAPI PCU.
- PAPI PHOTOCELL. (NOTE: PHOTOCELL OPERATION IS AS FOLLOWS: DURING THE DAYTIME THE PAPI'S ARE AT HIGH BRIGHTNESS LEVEL; AFTER DARK THE PAPI'S ARE AT LOW BRIGHTNESS LEVEL.
- P-610 CONCRETE FOUNDATION. 21" DIA., MIN. 4'0" DEEP (TYP. OF 2)
- 2" GALVANIZED STEEL SUPPORT POST WITH END CAPS (TYP. OF 2)
- STRUT-TYPE SUPPORT, UNISTRUT 2000 OR EQUIVALENT (TYP. OF 5)
- FRANGIBLE COUPLINGS (TYP. OF 4)
- FLOOR FLANGE (TYP. OF 2)
- HEAVY-DUTY 30A, 600V, UNFUSED NEMA 3R DISCONNECT SWITCH. PROVIDE GROUND LUGS. PROVIDE LABEL READING "CAUTION: 480 VOLTS"
- PAPI STEP-DOWN TRANSFORMER, 5KVA, 480-120/240V, 1-PHASE, 3-WIRE, SQUARE D MODEL 5S1F, OR EQUIVALENT.
- PAPI 24: 2 X #10 XLP-USE (480V), 1 X #120 GND IN 1" UNIT DUCT. INSTALL IN 1" GRS CONDUIT AT PAPI PCU FOUNDATION.
PAPI 6: 2 X #10 XLP-USE (480V), 1 X #10 GND IN 1" UNIT DUCT. INSTALL IN 1" GRS CONDUIT AT PAPI PCU FOUNDATION.
- 1" OR 1.5" LIQUIDTIGHT FLEXIBLE CONDUIT.
- #2 GROUND WIRE IN 1/2" PVC CONDUIT TO GROUND ROD.
- 3/4" DIAMETER X 10' LONG COPPER-CLAD STEEL GROUND ROD. MIN BURIAL: 1'-0". BOND GROUND WIRES TO GROUND ROD USING EXOTHERMIC WELD.
- 2 X #12 XLP-USE (480V POWER). 1 X #10 GROUND IN 3/4" GRS CONDUIT.
- 3 X #12 XLP-USE (120/240V POWER). 1 X #10 GROUND IN 3/4" LIQUIDTIGHT FLEXIBLE CONDUIT.
- 2 X #12 XLP-USE (120V POWER). 1 X #10 GROUND IN 3/4" GRS CONDUIT.
- NEMA 4 JUNCTION BOX SIZED AS REQUIRED TO HOUSE IN-LINE 10A FUSE AND WEATHERPROOF GFCI CONVENIENCE RECEPTACLE.
- GRS CONDUITS AND WIRING TO PAPI LIGHT UNITS, PER PAPI MANUFACTURER.



5 PAPI POWER PEDESTAL DETAIL
N.T.S.



REVISION	DESCRIPTION	DATE	APPROVED
1	ADDENDUM NO. 1	5/5/2025	BHH

Designed by:	Approved by:	Project Date:
CJS	BHH	5/5/25
Drawn by:	Check by:	Plot Scale:
CMT	BHH	
Plot Date:	Plot By:	Plot Size:
5-May-25 12:51	Brian Hutzel	At Full Size Sheet 22"x34"
File Name:	File Path:	File Size:
E-5000 ELECTRICAL DETAILS.DWG	TBD	24004895-00

FRANKLIN COUNTY, MISSOURI	SULLIVAN REGIONAL AIRPORT
1249 AIRPORT ROAD	SULLIVAN, MO 63080



PROJECT NO. 25-112B-2 LIGHTING REHABILITATION	ELECTRICAL DETAILS 4
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25-112B-2 Sheet 23 of 30 Drawing: E-5104 VOL. 1 of 1

ACKNOWLEDGEMENT

Each bidder shall acknowledge receipt of this **Addendum No. 1** of the **AIRFIELD LIGHTING REHABILITATION** by his/her signature affixed hereto, and shall attach this Addendum to the original bid.

CERTIFICATION BY BIDDER

SIGNATURE _____

TITLE _____

COMPANY _____

DATE _____

FAX/EMAIL TRANSMITTAL

To: Crawford, Murphy & Tilly, Inc

Attention: Brian Hutsell

Re: Addendum #1

Fax 314.436.0723

From:

(name) _____

(company) _____

Date:

To verify that all contractors are in receipt of this addendum, Contractors are asked to sign and date this acknowledgement sheet. The Contractor should fax or mail to Crawford, Murphy, & Tilly, Inc. at the number listed below by **May 6, 2025, or via email at bhutsell@cmtengr.com AND hlandon@cmtengr.com.**

Crawford, Murphy, & Tilly, Inc.
One Memorial Drive, Suite 500
Saint Louis, Missouri 63102

Fax: (314) 436-0723
Phone: (314) 436-5500

BY: CRAWFORD, MURPHY, & TILLY, INC.