

# MISSOURI 2019 AIRPORT LIGHTING PACKAGE

## EAST PACKAGE

**SCHEDULE A: CAPTAIN BEN SMITH AIRFIELD (K52)**  
**SCHEDULE B: BONNE TERRE MUNICIPAL AIRPORT (1BT)**  
**SCHEDULE C: CAMPBELL MUNICIPAL AIRPORT (34M)**

### ADDENDUM NO. 1

November 2, 2020



TO ALL PROSPECTIVE BIDDERS:

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

1. Section 1, Notice to Bidders. Contractors that are dropping off bids at Lochner's Lenexa, KS office and staying for the bid opening will be required to wait in their car after dropping off bids to maintain minimal amount of contact with others. Once it is time to open bids, Contractors will be allowed into the building to attend the bid opening. Lochner will have chairs spaced at least six feet apart to maintain social distancing requirements. For those not attending the bid opening but would like to hear the bid results virtually, Lochner has set up a Microsoft Teams room dedicated to the bid opening. To attend the bid opening videoconference for this project, please email your request to be added to the invitation to Ian Wright with Lochner. This section now reads:

"Sealed bids subject to the conditions and provisions presented herein will be received until **2:00 P.M. (CST), Thursday, November 19, 2020**, and then publicly opened and read at the office of **Lochner, 16105 W 113<sup>th</sup> Street, Suite 107, Lenexa, KS 66219**. Contractors delivering bids must first deliver their bid and then wait in their car until the bid opening. Once it is time to open bids, Contractors will be allowed into the Lochner office where there will be chairs spaced at least six feet apart in a large room to maintain social distancing requirements. **A bid opening videoconference will be held for those who would like to attend the bid opening virtually. To receive a calendar invitation via email with a link to access the videoconference, please email your request to be added to the invitation to Ian Wright with Lochner at [iwright@hwlochner.com](mailto:iwright@hwlochner.com). (Revised per Addendum No. 1)** Bids will be submitted for furnishing all labor, materials, equipment..."

Section **Award of Contract** has been revised to indicate that the bid proposals will be held by the Consulting Engineers and not the City of Monroe City / City of Bonne Terre / City of Campbell. This section now reads:

"**Award of Contract.** All proposals submitted in accordance with the instructions presented herein will be subject to evaluation. Bids may be held by the **Consulting Engineers** for a period not to exceed **ninety (90) calendar days** from the date of the bid opening for the purpose of conducting the bid evaluation."

**Revised Section 1 Notice to Bidders is included with this addendum for reference.**

**B. You are hereby notified of the following amendments to the Construction Plans for the subject project. Revised versions of the referenced Plan Sheets are included with this addendum for reference.**

1. **Schedule A: Captain Ben Smith Airfield**, Sheet No. 16 Vault Enclosure Plan and Details. The 8' x 8' wireway is now a 4" x 4" wireway. The 100A lighting contactor for the regulator and wind cone was removed. The regulator will now be controlled via a 120V, 5A (minimum) control relay and the wind cone via a 20A, 2 pole lighting contactor. The PAPI control relay is now a 20A, 2 pole lighting contactor.

**Revised Schedule A: Captain Ben Smith Airfield, Sheet No. 16 Vault Enclosure Plan and Details is included with this addendum for reference.**

2. **Schedule A: Captain Ben Smith Airfield**, Sheet No. 17 Distribution Schematic. The 8" x 8" wireway is now a 4" x 4" wireway. The 100A lighting contactor for the regulator and wind cone was removed. The regulator will now be controlled via a 120V, 5A (minimum) control relay and the wind cone via a 20A, 2 pole lighting contactor. The PAPI control relay is now a 20A, 2 pole lighting contactor. Radio interface specifications were added to the label, and the callout for the S-1 cutout revised to indicate that this is to be integrated with the regulator. The Distribution System Elevation and Wiring Diagram Schematics were updated to reflect these changes.

**Revised Schedule A: Captain Ben Smith Airfield, Sheet No. 17 Distribution Schematic is included with this addendum for reference.**

3. **Schedule B: Bonne Terre Municipal Airport**, Sheet No. 12 Vault Enclosure Plan and Details. The vault height (6'-10" minimum) and length (13'-6" minimum) were added to the vault enclosure elevation detail. The 8" x 8" wireway is now a 4" x 4" wireway. There is now a 120V, 5A (minimum) control relay and 20A lighting contactor located within the vault enclosure replacing the 100A, 5 pole lighting contactor.

**Revised Schedule B: Bonne Terre Municipal Airport, Sheet No. 12 Vault Enclosure Plan and Details is included with this addendum for reference.**

4. **Schedule B: Bonne Terre Municipal Airport**, Sheet No. 13 Distribution Schematic. The 8" x 8" wireway is now a 4" x 4" wireway. There is now a 120V, 5A (minimum) control relay and 20A lighting contactor located within the vault enclosure replacing the 100A, 5 pole lighting contactor. Radio interface specifications were added to the label, and the callout for the S-1 cutout revised to indicate that this is to be integrated with the regulator. The Distribution System Elevation and Wiring Diagram Schematics were updated to reflect these changes.

**Revised Schedule B: Bonne Terre Municipal Airport, Sheet No. 13 Distribution Schematic is included with this addendum for reference.**

5. **Schedule C: Campbell Municipal Airport**, Sheet No. 16 Vault Enclosure Plan and Details. The 8" x 8" wireway is now a 4" x 4" wireway. The 100A lighting contactor for the regulator and wind cone was removed. The regulator will now be controlled via a 120V, 5A (minimum) control relay and the rotating beacon and wind cone via a 20A, 2 pole lighting contactor. The PAPI control relay is now a 20A, 2 pole lighting contactor.

**Revised Schedule C: Campbell Municipal Airport, Sheet No. 16 Vault Enclosure Plan and Details is included with this addendum for reference.**

6. **Schedule C: Campbell Municipal Airport, Sheet No. 17 Distribution Schematic.** The 8" x 8" wireway is now a 4" x 4" wireway. The 100A lighting contactor for the regulator and wind cone was removed. The regulator will now be controlled via a 120V, 5A (minimum) control relay and the rotating beacon and wind cone via a 20A, 2 pole lighting contactor. The PAPI control relay is now a 20A, 2 pole lighting contactor. Radio interface specifications were added to the label, and the callout for the S-1 cutout revised to indicate that this is to be integrated with the regulator. The Distribution System Elevation and Wiring Diagram Schematics were updated to reflect these changes.

**Revised Schedule C: Campbell Municipal Airport, Sheet No. 17 Distribution Schematic is included with this addendum for reference.**

- C. A copy of the pre-bid videoconference minutes and attendees list is included with this addendum.**
- D. All bidders must acknowledge receipt of this addendum in the space provided on page PF-6 of the Proposal Form within the OFFICIAL BID FORM. Failure to acknowledge receipt of an addendum may be cause for rejection of the bid.**

**SECTION 1  
NOTICE TO BIDDERS**

**MISSOURI 2019 AIRPORT LIGHTING PACKAGE – EASTERN HALF**

Sealed bids subject to the conditions and provisions presented herein will be received until **2:00 P.M. (CST), Thursday, November 19, 2020**, and then publicly opened and read at the office of **Lochner, 16105 W 113<sup>th</sup> Street, Suite 107, Lenexa, KS 66219**. Contractors delivering bids must first deliver their bid and then wait in their car until the bid opening. Once it is time to open bids, Contractors will be allowed into the Lochner office where there will be chairs spaced at least six feet apart in a large room to maintain social distancing requirements. **A bid opening videoconference will be held for those who would like to attend the bid opening virtually. To receive a calendar invitation via email with a link to access the videoconference, please email your request to be added to the invitation to Ian Wright with Lochner at [iwright@hwlochner.com](mailto:iwright@hwlochner.com). (Revised per Addendum No. 1)** Bids will be submitted for furnishing all labor, materials, equipment and performing all work necessary to.

**SCHEDULE A: CAPTAIN BEN SMITH AIRFIELD (K52)**  
**MoDOT Project No. AIR 206-035A**

**Base Bid**

Install Base Mounted Runway Edge and Threshold Lights  
Install Base Mounted Taxiway Edge Lights  
Replace Existing 2-Box PAPI Systems for Runways 9 and 27  
Install Non-Lighted Runway Holding Position Sign  
Replace Primary Wind Cone

**SCHEDULE B: BONNE TERRE MUNICIPAL AIRPORT (1BT)**  
**MoDOT Project No. AIR 206-061D**

**Base Bid**

Install Base Mounted Runway Edge and Threshold Lights  
Install Base Mounted Taxiway Edge Lights and Retroreflective Markers  
Install Non-Lighted Runway Holding Position Sign  
Install Supplemental Wind Cone  
Install Rotating Beacon  
Install Electrical Vault Enclosure, Equipment, and Controls

**SCHEDULE C: CAMPBELL MUNICIPAL AIRPORT (34M)**  
**MoDOT Project No. AIR 206-079B**

**Base Bid**

Install Base Mounted Runway Edge and Threshold Lights  
Install Base Mounted Taxiway Edge Lights and Retroreflective Markers  
Install Non-Lighted Runway Holding Position Signs  
Install 2-Box PAPI System for Runways 18 and 36  
Replace Primary Wind Cone  
Install Rotating Beacon



Copies of the bid documents including project drawings and technical specifications are on file and may be inspected at:

**Monroe City**  
**Office of the City Clerk**  
**City Hall**  
**109 2<sup>nd</sup> Street**  
**Monroe City, MO 63456**

**Bonne Terre**  
**Office of the City Clerk**  
**City Hall**  
**118 N. Allen Street**  
**Bonne Terre, MO 63628**

**Campbell**  
**Office of the City Clerk**  
**City Hall**  
**302 W. Grand Street**  
**Campbell, MO 63933**

and at the office of the Consulting Engineers, H.W. Lochner, Inc., 16105 W. 113<sup>th</sup> Street, Suite 107, Lenexa, Kansas 66219. Questions concerning the Plans and Specifications for this project should be directed to **Matt Jacobs, P.E.** at H.W. Lochner's Office in Lenexa, Kansas at (816) 945-5840.

Drawings, specifications, official bid form and other related contract information may be ordered online at [www.drexeltech.com](http://www.drexeltech.com) or by contacting Drexel Technologies, Inc. at 10840 W. 86<sup>th</sup> Street, Lenexa, KS 66214, phone (913) 371-4430, fax (913) 371-7128. Checks shall be made payable to "Drexel Technologies" and mailing costs are the responsibility of the purchaser. Drawings, specifications, official bid form, addenda, and a plan holders list are available at [www.drexeltech.com](http://www.drexeltech.com) by clicking on "Enter Plan Room."

A **prebid videoconference** for this project will be held at **10:00 A.M. (CDT), Tuesday, October 27, 2020**. To receive a calendar invitation via email with a link to access the video conference, please email your request to be added to the invitation to Ian Wright with Lochner at [iwright@hwlochner.com](mailto:iwright@hwlochner.com).

**Contract Work Items.** This project will involve the following work items and estimated quantities. Prospective bidders are hereby advised that the quantities indicated herein are approximate and are subject to change.

**SCHEDULE A: CAPTAIN BEN SMITH AIRFIELD (K52)**

ITEM NO.	SPEC.	ITEM DESCRIPTION	QTY.	UNIT
<b>MoDOT PROJECT NO. AIR 206-035A</b>				
<b><u>BASE BID</u></b>				
<b>Install Base Mounted Runway Edge and Threshold Lights</b>				
<b>Install Base Mounted Taxiway Edge Lights</b>				
<b>Replace Existing 2-Box PAPI Systems for Runways 9 and 27</b>				
<b>Install Non-Lighted Runway Holding Position Signs</b>				
<b>Replace Primary Wind Cone</b>				
1	MO-100	Mobilization	1	L.S.
2	TEMP	Temporary Marking, Lighting, & Barricades	1	L.S.
3	MO-107	Furnish and Install Airport L-807 (LED), Style 1-B, Size 2 Wind Cone (In-Place)	1	EA.
4	MO-108	Install Cable in Duct (1/c, #8 AWG, 5 kV, L-824C)	8,076	L.F.
5	MO-108	Install Cable in Duct (1/c, #8 AWG, 600 V, L-824C)	6,912	L.F.
6	MO-108	Install Cable in Duct (1/c, #8 AWG, 600 V, L-824C, Ground)	3,456	L.F.
7	MO-108	Bare Counterpoise Wire (#6 AWG)	8,133	L.F.
8	MO-109	Furnish and Install 4 kW Constant Current Regulator	1	EA.
9	MO-109	Furnish and Install Electrical System Controls	1	L.S.
10	MO-110	1" Electrical Duct and Trench	10,272	L.F.
11	MO-110	1" PVC, Schedule 80, Bore Duct Under Pavement	629	L.F.
12	MO-110	2" PVC, Schedule 80, Bore Duct Under Pavement	34	L.F.
13	MO-120	Furnish and Install L-881(L) 2-Box PAPI System	2	EA.
14	MO-125	Remove Existing Lighting System (Lights, Wind Cone, Segmented Circle, and PAPI System)	1	L.S.
15	MO-125	Furnish and Install M.I.R.L. (LED), Base Mounted (Red/Green Lens) with Arctic Option (14")	16	EA.
16	MO-125	Furnish and Install M.I.R.L. (LED), Base Mounted (Yellow/Clear Lens) with Arctic Option (14")	32	EA.
17	MO-125	Furnish and Install M.I.R.L. (LED), Base Mounted (Yellow/Yellow Lens) with Arctic Option (14")	2	EA.
18	MO-125	Furnish and Install M.I.T.L. (LED), Base Mounted (Blue Lens) with Arctic Option (14")	8	EA.
19	MO-125	Furnish M.I.R.L. (LED), Base Mounted (Red/Green Lens) With Arctic Option for Base Mounted Connection (Fixture, Transformer, and Cover Plate)	2	EA.
20	MO-125	Furnish M.I.R.L. (LED), Base Mounted (Yellow/Clear Lens) With Arctic Option for Base Mounted Connection (Fixture, Transformer, and Cover Plate)	3	EA.
21	MO-125	Furnish M.I.T.L. (LED), Base Mounted (Blue Lens) With Arctic Option for Base Mounted Connection (Fixture, Transformer, and Cover Plate)	1	EA.
22	MO-125	Furnish and Install L-858R Non-Lighted Guidance Sign and Foundation	2	EA.
23	MO-125	Furnish and Install L-867 Junction Box, Size B	18	EA.
24	MO-125	Furnish and Install L-867 Junction Box, Size D	2	EA.
25	MO-701	24" Reinforced Concrete Pipe	64	L.F.
26	MO-701	24" Reinforced Concrete Pipe End Section	2	EA.
27	MO-901 MO-908	Seeding and Hydro-Mulch	1	L.S.
28	TREC	Erosion Control Blanket (Type 2C)	503	S.Y.

**SCHEDULE B: BONNE TERRE MUNICIPAL AIRPORT (1BT)**

ITEM NO.	SPEC.	ITEM DESCRIPTION	QTY.	UNIT
<b>MoDOT PROJECT NO. AIR 206-061D</b>				
<b><u>BASE BID</u></b>				
<b>Install Base Mounted Runway Edge and Threshold Lights</b>				
<b>Install Base Mounted Taxiway Edge Lights and Retroreflective Markers</b>				
<b>Install Non-Lighted Runway Holding Position Sign</b>				
<b>Install Supplemental Wind Cone</b>				
<b>Install Rotating Beacon</b>				
<b>Install Electrical Vault Enclosure, Equipment, and Controls</b>				
1	MO-100	Mobilization	1	L.S.
2	TEMP	Temporary Marking, Lighting, & Barricades	1	L.S.
3	MO-101	Furnish and Install Airport Rotating Beacon and Tip-Down Pole (In Place) (25')	1	EA.
4	MO-107	Furnish and Install Airport L-806 (LED), Style I-A, Size 1 Wind Cone (In-Place)	1	EA.
5	MO-108	Install Cable in Duct (1/c, #8 AWG, 5 kV, L-824C)	6,547	L.F.
6	MO-108	Install Cable in Duct (1/c, #8 AWG, 600 V, L-824C)	176	L.F.
7	MO-108	Install Cable in Duct (1/c, #8 AWG, 600 V, L-824C, Ground)	88	L.F.
8	MO-108	Bare Counterpoise Wire (#6 AWG)	6,243	L.F.
9	MO-109	Furnish and Install Prefabricated Housing and Foundation	1	L.S.
10	MO-109	Furnish and Install 4 kW Constant Current Regulator	1	EA.
11	MO-109	Furnish and Install Electrical System Controls	1	L.S.
12	MO-110	1" Electrical Duct and Trench	6,243	L.F.
13	MO-110	1" PVC, Schedule 80, Bore Duct Under Pavement	86	L.F.
14	MO-125	Furnish and Install M.I.R.L. (LED), Base Mounted (Red/Green Lens) with Arctic Option (16")	12	EA.
15	MO-125	Furnish and Install M.I.R.L. (LED), Base Mounted (Yellow/Clear Lens) with Arctic Option (16")	26	EA.
16	MO-125	Furnish and Install M.I.T.L. (LED), Base Mounted (Blue Lens) with Arctic Option (16")	8	EA.
17	MO-125	Furnish M.I.R.L. (LED), Base Mounted (Red/Green Lens) With Arctic Option for Base Mounted Connection (Fixture, Transformer, and Cover Plate)	1	EA.
18	MO-125	Furnish M.I.R.L. (LED), Base Mounted (Yellow/Clear Lens) With Arctic Option for Base Mounted Connection (Fixture, Transformer, and Cover Plate)	3	EA.
19	MO-125	Furnish M.I.T.L. (LED), Base Mounted (Blue Lens) With Arctic Option for Base Mounted Connection (Fixture, Transformer, and Cover Plate)	1	EA.
20	MO-125	Furnish and Install L-858R Non-Lighted Guidance Sign and Foundation	1	EA.
21	MO-125	Furnish and Install L-867 Junction Box, Size B	6	EA.
22	MO-125	Furnish and Install Retroreflective Markers (18")	5	EA.
23	MO-901 MO-908	Seeding and Hydro-Mulch	1	L.S.

**SCHEDULE C: CAMPBELL MUNICIPAL AIRPORT (34M)**

ITEM NO.	SPEC.	ITEM DESCRIPTION	QTY.	UNIT
<b>MoDOT PROJECT NO. AIR 206-079B</b>				
<b><u>BASE BID</u></b>				
<b>Install Base Mounted Runway Edge and Threshold Lights</b>				
<b>Install Base Mounted Taxiway Edge Lights and Retroreflective Markers</b>				
<b>Install Non-Lighted Runway Holding Position Signs</b>				
<b>Install 2-Box PAPI System for Runways 18 and 36</b>				
<b>Replace Primary Wind Cone</b>				
<b>Install Rotating Beacon</b>				
1	MO-100	Mobilization	1	L.S.
2	TEMP	Temporary Marking, Lighting, & Barricades	1	L.S.
3	MO-101	Furnish and Install Airport Rotating Beacon and Tip-Down Pole (In Place) (55')	1	EA.
4	MO-107	Furnish and Install Airport L-807 (LED), Style I-B, Size 2 Wind Cone (In-Place)	1	EA.
5	MO-107	Furnish and Install Segmented Circle Marker System	1	L.S.
6	MO-108	Install Cable in Duct (1/c, #8 AWG, 5 kV, L-824C)	6,984	L.F.
7	MO-108	Install Cable in Duct (1/c, #8 AWG, 600 V, L-824C)	8,936	L.F.
8	MO-108	Install Cable in Duct (1/c, #8 AWG, 600 V, L-824C, Ground)	4,468	L.F.
9	MO-108	Bare Counterpoise Wire (#6 AWG)	6,876	L.F.
10	MO-109	Furnish and Install 4 kW Constant Current Regulator	1	EA.
11	MO-109	Furnish and Install Electrical System Controls	1	L.S.
12	MO-110	1" Electrical Duct and Trench	9,379	L.F.
13	MO-110	1" PVC, Schedule 80, Bore Duct Under Pavement	781	L.F.
14	MO-110	2" PVC, Schedule 80, Bore Duct Under Pavement	316	L.F.
15	MO-120	Furnish and Install L-881(L) 2-Box PAPI System	2	EA.
16	MO-125	Remove Existing Lighting System (Lights, Retroreflective Markers, Wind Cone, and Segmented Circle)	1	L.S.
17	MO-125	Furnish and Install M.I.R.L. (LED), Base Mounted (Red/Green Lens) with Arctic Option (18")	12	EA.
18	MO-125	Furnish and Install M.I.R.L. (LED), Base Mounted (Yellow/Clear Lens) with Arctic Option (18")	30	EA.
19	MO-125	Furnish and Install M.I.T.L. (LED), Base Mounted (Blue Lens) with Arctic Option (18")	6	EA.
20	MO-125	Furnish M.I.R.L. (LED), Base Mounted (Red/Green Lens) With Arctic Option for Base Mounted Connection (Fixture, Transformer, and Cover Plate)	1	EA.
21	MO-125	Furnish M.I.R.L. (LED), Base Mounted (Yellow/Clear Lens) With Arctic Option for Base Mounted Connection (Fixture, Transformer, and Cover Plate)	3	EA.
22	MO-125	Furnish M.I.T.L. (LED), Base Mounted (Blue Lens) With Arctic Option for Base Mounted Connection (Fixture, Transformer, and Cover Plate)	1	EA.
23	MO-125	Furnish and Install L-858R Non-Lighted Guidance Sign and Foundation	2	EA.
24	MO-125	Furnish and Install L-867 Junction Box, Size B	12	EA.
25	MO-125	Furnish and Install L-867 Junction Box, Size D	5	EA.
26	MO-125	Furnish and Install Retroreflective Markers (18")	28	EA.
27	MO-901 MO-908	Seeding and Hydro-Mulch	1	L.S.

**Contract Time.** The owner has established a contract performance time of **forty-five (45) calendar days for Schedule A: Captain Ben Smith Airfield (K52)** from the date of the Notice-to-Proceed. All project work shall be substantially completed within the stated timeframe. This project is subject to liquidated damages as prescribed in the project manual.

The owner has established a contract performance time of **forty-five (45) calendar days for Schedule B: Bonne Terre Municipal Airport (1BT)** from the date of the Notice-to-Proceed. All project work shall be substantially completed within the stated timeframe. This project is subject to liquidated damages as prescribed in the project manual.

The owner has established a contract performance time of **forty-five (45) calendar days for Schedule C: Campbell Municipal Airport (34M)** from the date of the Notice-to-Proceed. All project work shall be substantially completed within the stated timeframe. This project is subject to liquidated damages as prescribed in the project manual.

**Bid Security.** No bid will be considered unless accompanied by a certified check or cashier's check on any bank or trust company insured by the Federal Deposit Insurance Corporation, payable to **City of Monroe City / City of Bonne Terre / City of Campbell**, for not less than five (5) percent of the total amount of the bid, or by a bid bond secured by an approved surety or sureties, payable to the owner, for not less than five (5) percent of the total amount of the bid.

**Bonding Requirements.** The successful bidder will be required to furnish separate performance and payment bonds each in an amount equal to 100% of the contract price at the time of contract execution.

**Award of Contract.** All proposals submitted in accordance with the instructions presented herein will be subject to evaluation. Bids may be held by the **Consulting Engineers (Revised per Addendum No. 1)** for a period not to exceed **ninety (90) calendar days** from the date of the bid opening for the purpose of conducting the bid evaluation.

Award of contract will be based on the lowest aggregate sum proposal submitted from those bidders that are confirmed as being responsive and responsible. **The bidder must submit a bid for all Base Bids and Add Alternates listed in the Proposal Form.** The owner reserves the right to select any one of the combinations of the base bid(s) and alternate bid(s), which in the judgment of the owner, best serves the owner's interest. The right is reserved, as the **City of Monroe City / City of Bonne Terre / City of Campbell** may require, to reject any bid and all bids.

Award of contract is contingent upon the owner receiving State-funding assistance under the State Aviation Trust Fund.

**Notice-To-Proceed.** It is the intent of the Owners to issue the Notice-To-Proceed (NTP) as soon as practical in the Spring of 2021 after the Award of Contract.

**State Wage Requirements.** The contractor will be required to comply with the wage and labor requirements and pay minimum wages in accordance with the schedule of wage rates established by the Missouri Division of Labor Standards included in the Supplementary Provisions.

**COVID-19 Safety**

The contractor shall be aware of all COVID-19 guidance from the Center for Disease Control (CDC) and other government health mandates and conduct all operations in conformance with these safety directives. The guidance may change during the project construction and the contractor shall change and adapt their operation and safety protocols accordingly.

The contractor shall include these procedures in the project safety plan as called for in the contract documents and revise the safety plan as needed.

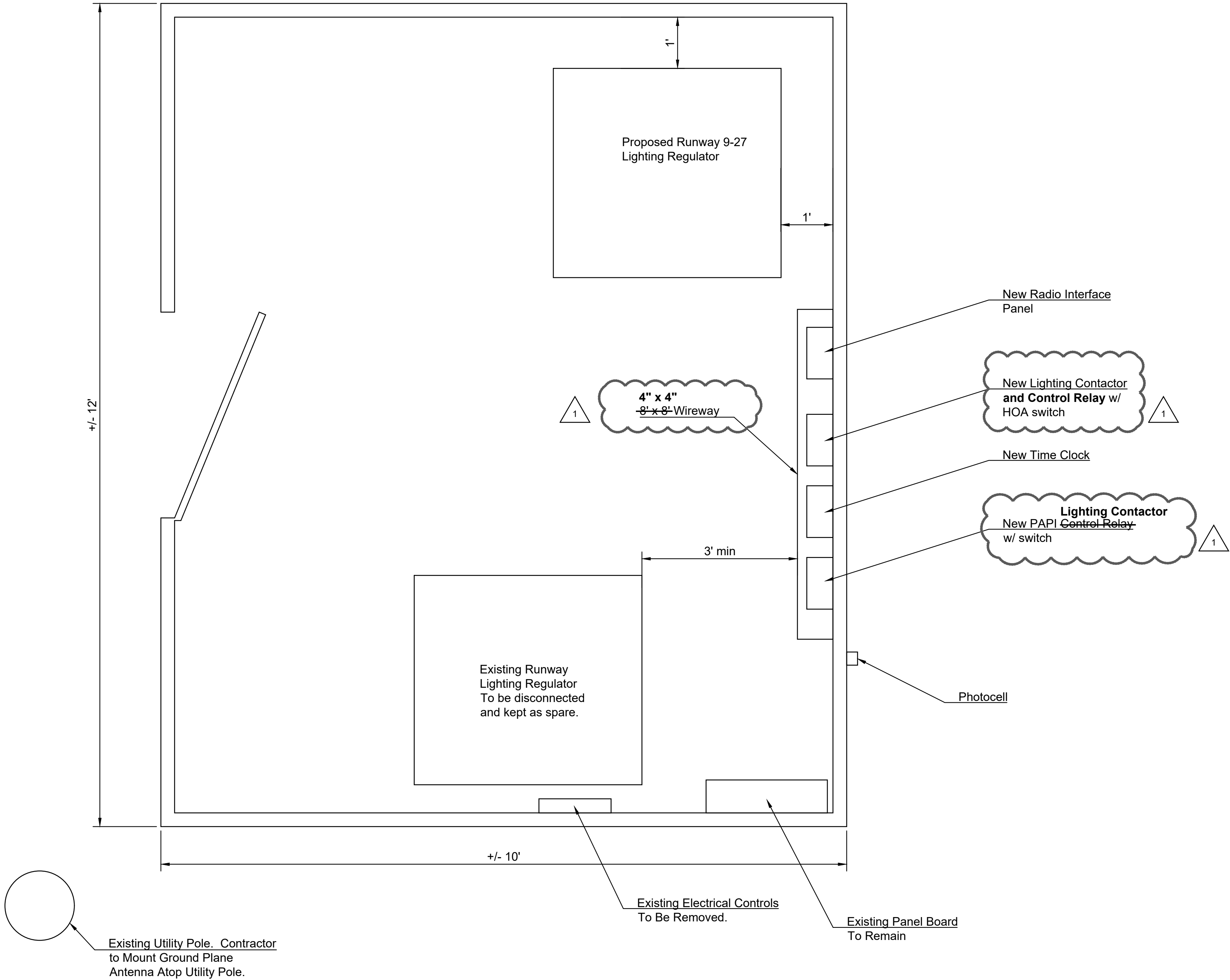
The contractor shall be aware of the Missouri Standard Specifications for Highway Construction Section 107.1 "Laws to be Observed".

**Additional Provisions.**

Modification to the project documents may only be made by written addendum by the Owner or Owner's authorized Representative.

The proposal must be made on the forms provided **separate from** the bound project manual. Bidders must supply all required information prior to the time of bid opening.

Drawing Name: I:\AV\IPR\000015616\01 - modot 7 pack\AE\03 - acadmonroe city (K52)\PRODUCTION DRAWINGS\15616 K52 - VAULT AND SYSTEM DETAILS.dwg Nov 02 2020 - 2:52pm Saved By: jwright 2020/11/02 Layout Name: VAULT DETAILS Plot Style: ae.ctb



VAULT PLAN  
No Scale



**LOCHNER**

16105 W. 113th Street | Suite 107 | Lenexa, Kansas 66219  
P 816.945.5840 | www.hwlochner.com

CITY OF MONROE CITY, MISSOURI

CAPTAIN BEN SMITH AIRFIELD (K52)

MONROE CITY, MISSOURI

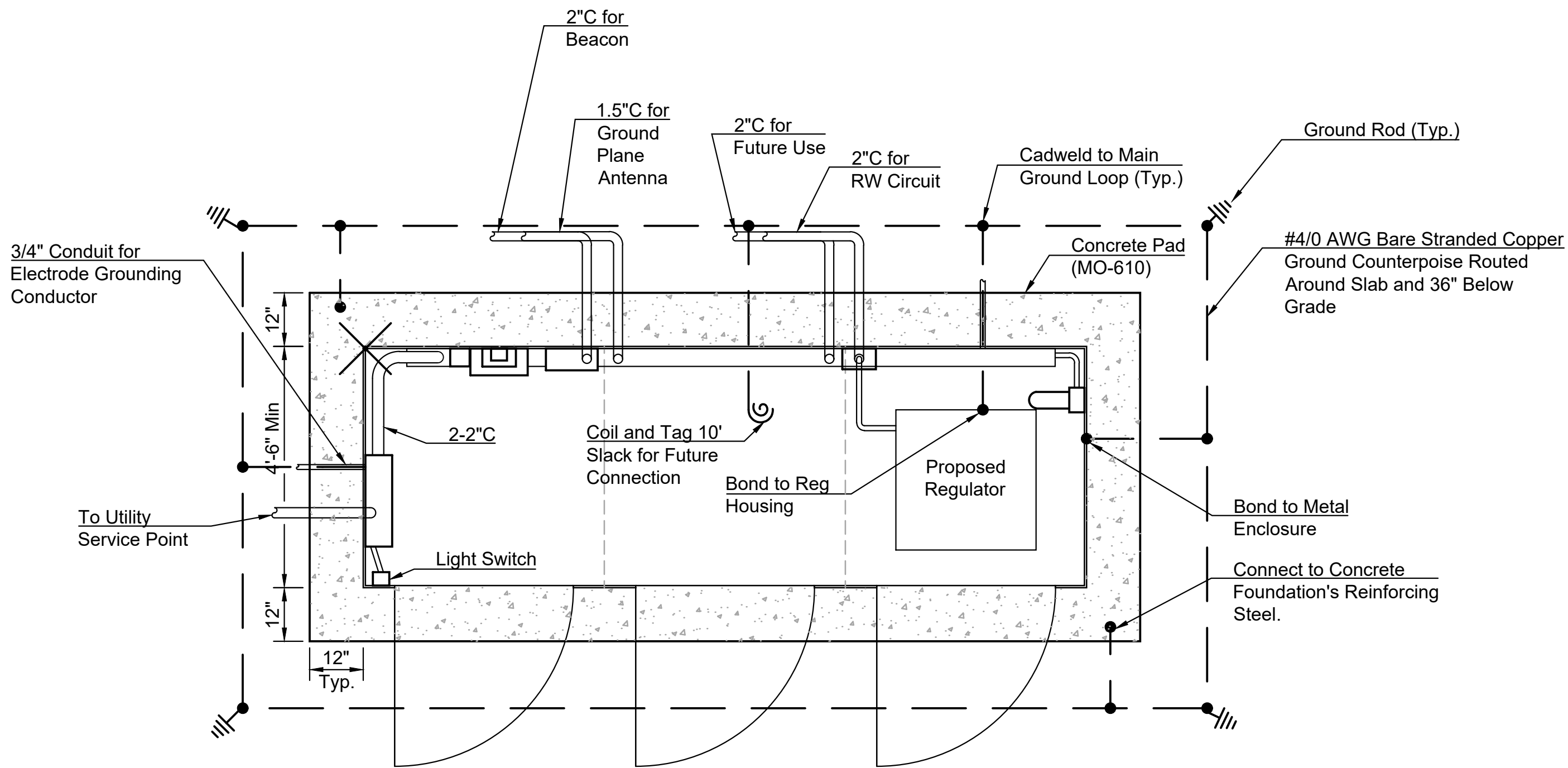
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DRAWN BY	IJW
DATE	04/07/2020
CHECKED BY	MJJ
DATE	07/29/2020
DESIGNED BY	IJW
DATE	04/07/2020
REVISIONS	
Addendum No. 1	11-02-2020

VAULT ENCLOSURE  
PLAN AND DETAILS

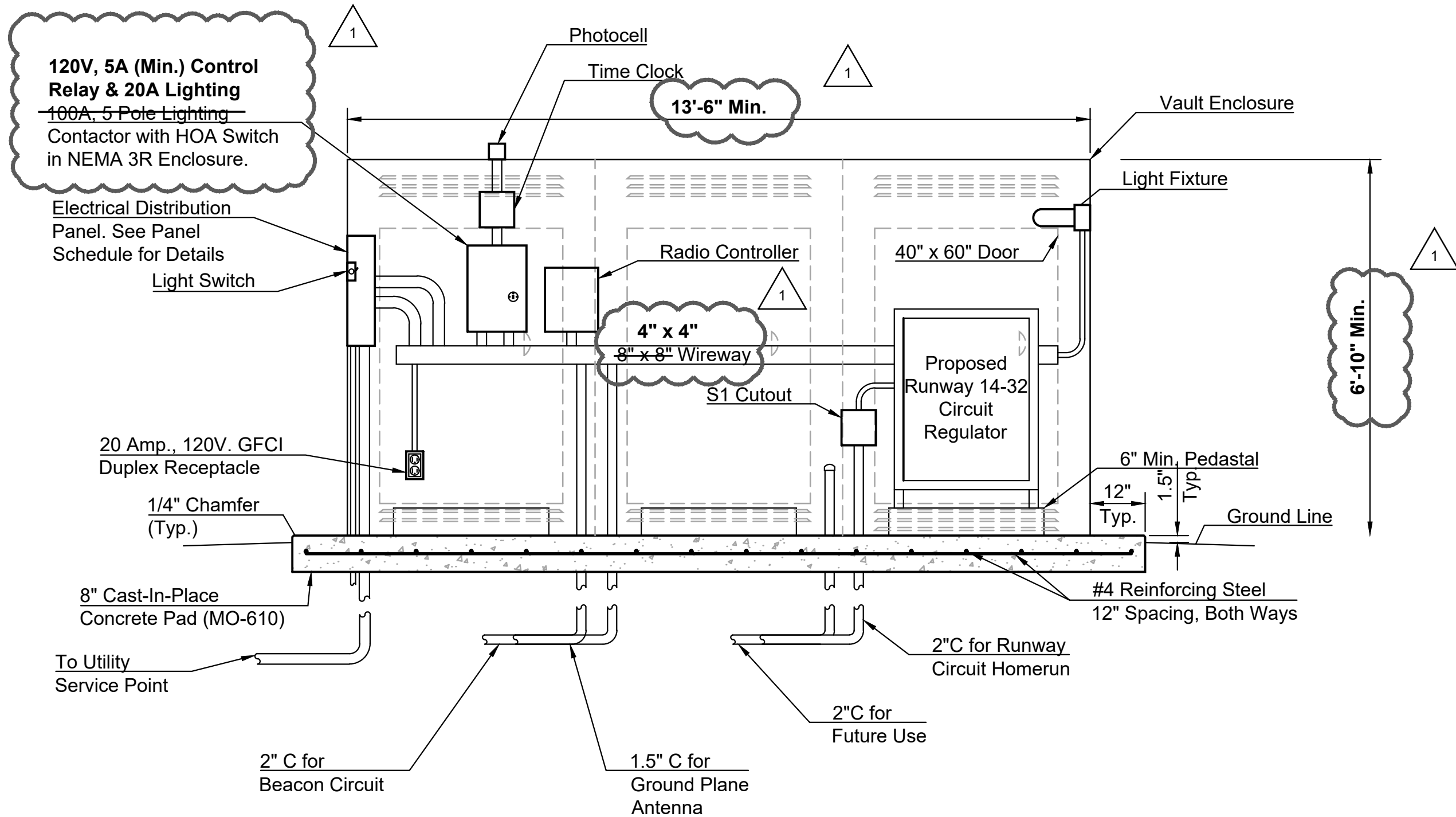






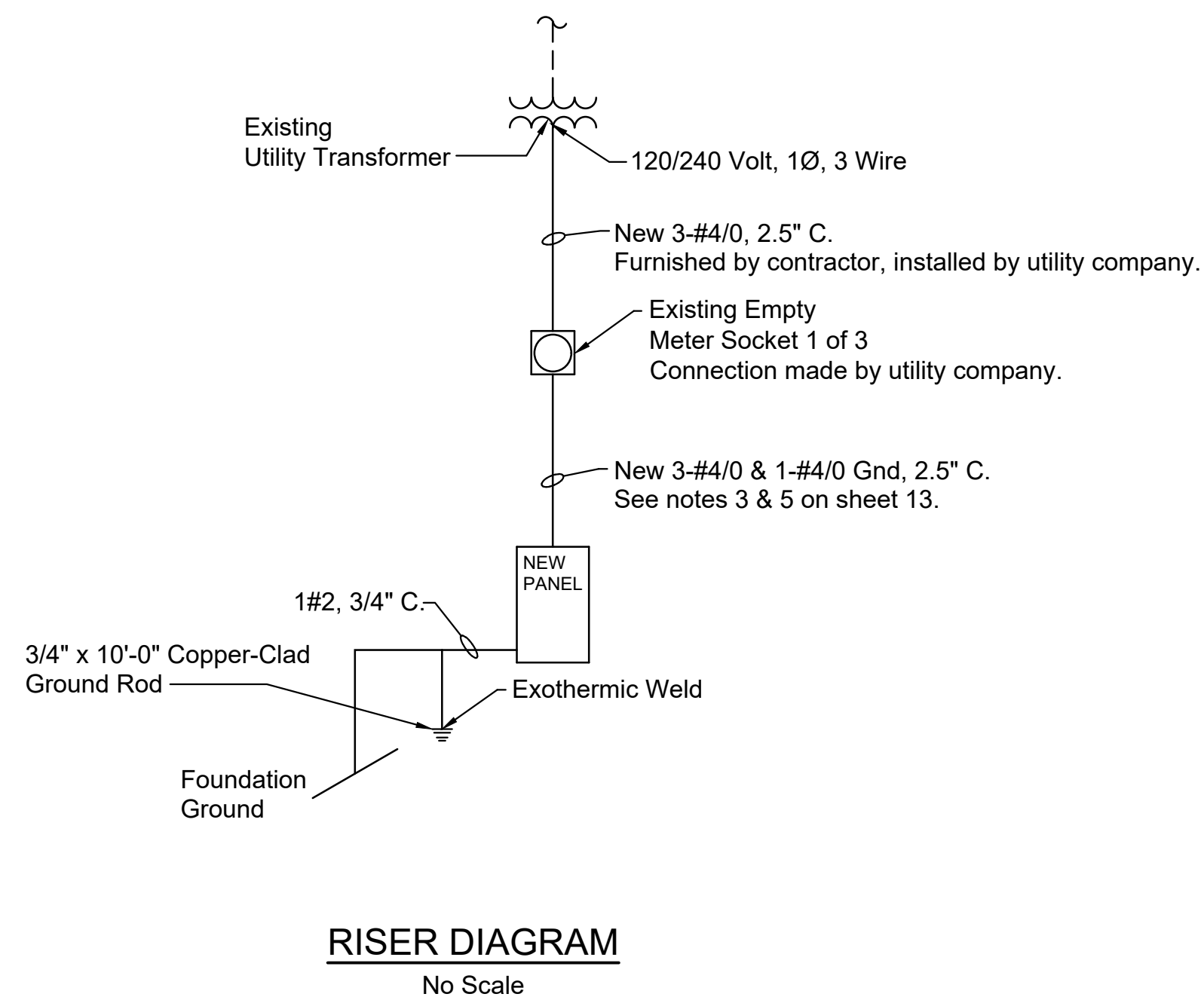


VAULT ENCLOSURE PLAN  
Scale: 1" = 2'

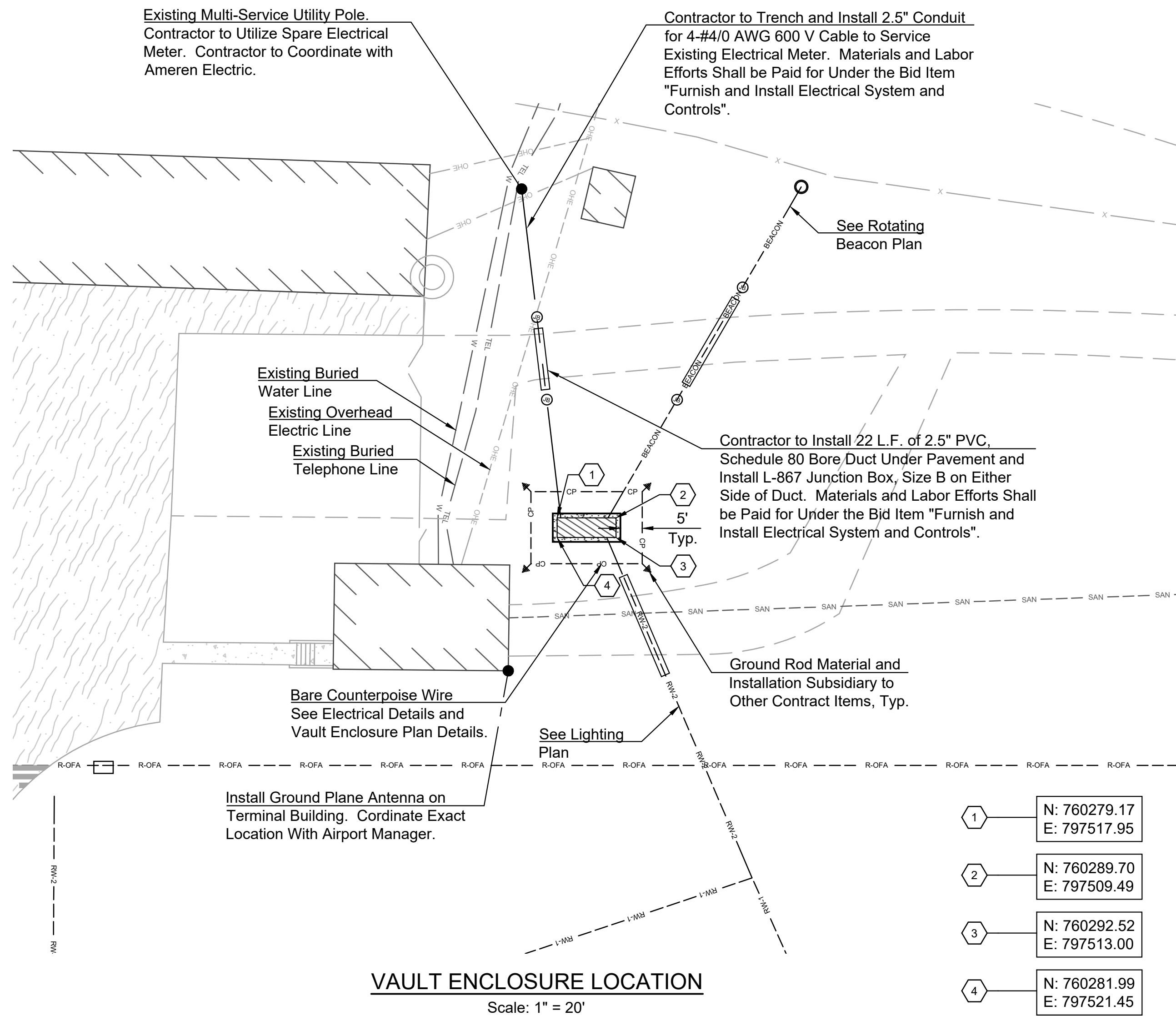


VAULT ENCLOSURE ELEVATION  
Scale: 1" = 2'

- VAULT ENCLOSURE NOTES:**
- Any grading and site preparation required for the construction of the concrete pad shall be considered subsidiary to other bid items.



RISER DIAGRAM  
No Scale



1	N: 760279.17 E: 797517.95
2	N: 760289.70 E: 797509.49
3	N: 760292.52 E: 797513.00
4	N: 760281.99 E: 797521.45

VAULT ENCLOSURE LOCATION  
Scale: 1" = 20'



**LOCHNER**

16105 W. 113th Street | Suite 107 | Lenexa, Kansas 66219  
P 816.945.5840 | www.hwlochner.com

CITY OF BONNE TERRE, MISSOURI

BONNE TERRE MUNICIPAL AIRPORT (1BT)

BONNE TERRE, MISSOURI

PROJECT NO.	000015616
DRAWN BY	IJW
CHECKED BY	AG
DESIGNED BY	IJW
REVISIONS	
Addendum No. 1	11-02-2020

VAULT ENCLOSURE  
PLAN AND DETAILS

12





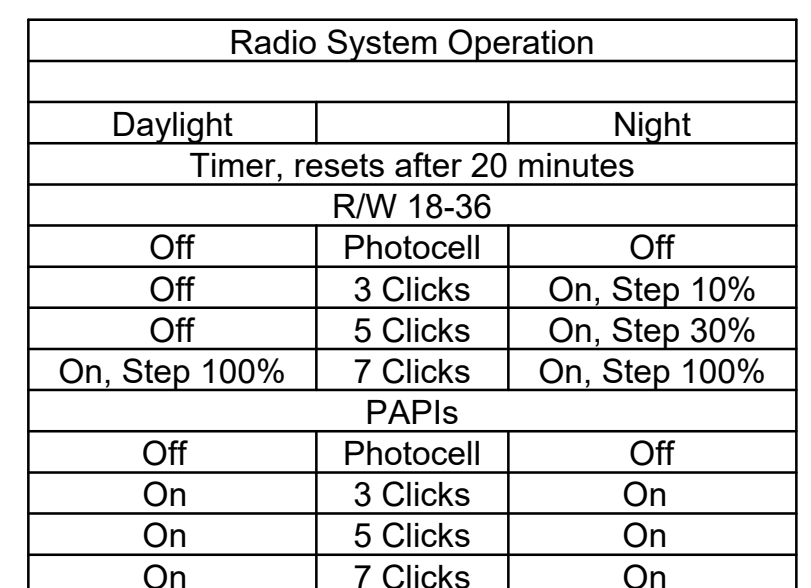
Radio System Operation		
Daylight		Night
Timer, resets after 20 minutes		
R/W 14-32		
Off	Photocell	Off
Off	3 Clicks	On, Step 10%
Off	5 Clicks	On, Step 30%
On, Step 100%	7 Clicks	On, Step 100%

- NOTES:**
1. Conduit shall enter equipment at the location recommended by the manufacturer.
  2. Contractor shall furnish & install a minimum of 1#12 grd. in each conduit routing unless otherwise mentioned.
  3. Coordinate meter connection with Ameren, Mr. Lucas Hulseay at (573) 454-5001.
  4. Use terminal blocks for all wire splices within 8" x 8" wireway.
  5. Contractor shall be responsible for all equipment and installation up to the service pole. Contractor to leave stub up and 30ft of coiled cable adjacent to utility pole.









1. Conduit shall enter equipment at the location recommended by the manufacturer.
2. Contractor shall furnish & install a minimum of 1#12 grd. in each conduit routing unless otherwise mentioned.
3. Coordinate meter installation and location with Ozark Border Electric Cooperative, Mr. John Walker at (573) 300-1300.
4. Use terminal blocks for all wire splices within 8" x 8" wireway.
5. Contractor shall disconnect existing runway lighting circuit from terminal building distribution panel.

# MISSOURI 2019 AIRPORT LIGHTING PACKAGE

## West Package

- Schedule A: Albany Municipal Airport (K19)
- Schedule B: Carrollton Memorial Airport (K26)
- Schedule C: Roy Otten Memorial Airfield (3VS)
- Schedule D: Ava Bill Martin Memorial Airport (AOV)

## East Package

- Schedule A: Captain Ben Smith Airfield (K52)
- Schedule B: Bonne Terre Municipal Airport (1BT)
- Schedule C: Campbell Municipal Airport (34M)

## PRE-BID VIDEO CONFERENCE MINUTES

Tuesday, October 27<sup>th</sup>, 2020 at 10:00 A.M. (CDT)

### I. Introduction of Attendees:

(Attendees list attached to these minutes for references)

### II. Project Description (reference attached project summary exhibits)

The **WEST PACKAGE** consists of the following improvements:

#### **SCHEDULE A: ALBANY MUNICIPAL AIRPORT (K19)**

MoDOT Project No. AIR 206-04A

##### **Base Bid**

- Install Base Mounted Runway Edge and Threshold Lights
- Install Base Mounted Taxiway Edge Lights and Retroreflective Markers
- Install Non-Lighted Runway Holding Position Sign
- Replace Primary Wind Cone
- Install Rotating Beacon
- Install Electrical Vault Enclosure, Equipment, and Controls

##### **Add Alternate**

Replace Existing VGSI System with 2-Box PAPI Systems for Runways 1 and 19

#### **SCHEDULE B: CARROLLTON MEMORIAL AIRPORT (K26)**

MoDOT Project No. AIR 206-016A

##### **Base Bid**

- Install Base Mounted Runway Edge and Threshold Lights
- Install Base Mounted Taxiway Edge Lights and Retroreflective Markers
- Install Non-Lighted Runway Holding Position Sign
- Replace Primary Wind Cone
- Replace Rotating Beacon
- Install Electrical Equipment and Controls

##### **Add Alternate**

Install 2-Box PAPI Systems for Runways 18 and 36

**SCHEDULE C: ROY OTTEN MEMORIAL AIRFIELD (3VS)**

**MoDOT Project No. AIR 206-041A**

**Base Bid**

Install Base Mounted Runway Edge and Threshold Lights  
Install Base Mounted Taxiway Edge Lights and Retroreflective Markers  
Install Non-Lighted Runway Holding Position Sign  
Replace Primary Wind Cone and Install Supplemental Wind Cone  
Install Electrical Vault Enclosure, Equipment, and Controls

**SCHEDULE D: AVA BILL MARTIN MEMORIAL AIRPORT (AOV)**

**MoDOT Project No. AIR 206-102A**

**Base Bid**

Install Base Mounted Runway Edge and Threshold Lights  
Install Base Mounted Taxiway Edge Lights and Retroreflective Markers  
Install Non-Lighted Runway Holding Position Signs  
Install Electrical Vault Enclosure, Equipment, and Controls

**Add Alternate**

Replace Existing VASI with 2-Box PAPI System for Runway 13

The **EAST PACKAGE** consists of the following improvements:

**SCHEDULE A: CAPTAIN BEN SMITH AIRFIELD (K52)**

**MoDOT Project No. AIR 206-035A**

**Base Bid**

Install Base Mounted Runway Edge and Threshold Lights  
Install Base Mounted Taxiway Edge Lights  
Replace Existing 2-Box PAPI Systems for Runways 9 and 27  
Install Non-Lighted Runway Holding Position Signs  
Replace Primary Wind Cone  
Install Electrical Equipment and Controls

**SCHEDULE B: BONNE TERRE MUNICIPAL AIRPORT (1BT)**

**MoDOT Project No. AIR 206-061D**

**Base Bid**

Install Base Mounted Runway Edge and Threshold Lights  
Install Base Mounted Taxiway Edge Lights and Retroreflective Markers  
Install Non-Lighted Runway Holding Position Sign  
Install Supplemental Wind Cone  
Install Rotating Beacon  
Install Electrical Vault Enclosure, Equipment, and Controls

## **SCHEDULE C: CAMPBELL MUNICIPAL AIRPORT (34M)**

**MoDOT Project No. AIR 206-079B**

### **Base Bid**

Install Base Mounted Runway Edge and Threshold Lights  
Install Base Mounted Taxiway Edge Lights and Retroreflective Markers  
Install Non-Lighted Runway Holding Position Signs  
Install 2-Box PAPI System for Runways 18 and 36  
Replace Primary Wind Cone  
Install Rotating Beacon  
Install Electrical Equipment and Controls

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

#### **A. Time and Location:**

1. Proposals for the **WEST PACKAGE** will be received until **2:00 P.M. (CST), Tuesday, November 10<sup>th</sup>, 2020** (*Revised per Addendum No. 1*) and then publicly opened and read at:

**Lochner Office  
16105 W. 113<sup>th</sup> Street, Suite 107  
Lenexa, KS 66219**

Proposals for the **EAST PACKAGE** will be received until **2:00 P.M. (CST), Thursday, November 19<sup>th</sup>, 2020** and then publicly opened and read at:

**Lochner Office  
16105 W. 113<sup>th</sup> Street, Suite 107  
Lenexa, KS 66219**

Bids received after these times for either package will not be considered. Contractors submitting a bid will have the option to attend the bid opening in person or join via teleconference.

2. Bids may be held by the Consulting Engineers (Lochner) for a period not to exceed ninety (90) calendar days from the date of the bid opening. **Award of contract is contingent upon the Missouri Department of Transportation (MoDOT) from the State Aviation Trust Fund for this project.**
3. Envelopes containing bids must be sealed and addressed as shown on Page 2-1 Instructions to Bidders of the Contract Documents/Specifications.
4. No official Sponsor led site visit will be conducted at any of the airports. Each bidder may contact Lochner to coordinate and schedule a site visit at a specific airport in the West or East package. Photos of the existing electrical items are included within each respective plan set.
5. Each bidder shall provide a bid bond with submission of bid for no less than five (5) percent of the total amount of the bid for the West or East package. The bid bond shall be payable to the Sponsors within each bid. (West Package: City of Albany, City of Carrollton, City of Versailles, and City of Ava. East Package: City of Monroe City, City of Bonne Terre, and City of Campbell). Include the Bid Bond with your Proposal Form in the sealed envelope.
6. The intentions are to execute contracts after receiving concurrence in award from MoDOT.

B. Contract Provisions:

1. Mandatory contract provisions are identified in Section 3 and Section 4 of the Contract Documents.
2. There is **not** a DBE goal required for this project.
3. The West and East package are subject to the requirements of Section 34.350 et seq RSMo Supp 2005, which requires all manufactured goods or commodities used or supplied in the performance of this contract or any subcontract to be manufactured, assembled, or produced in the United States. Reference Section 5 of the Supplementary Provisions within the Project Manual.
4. The Contractor and all Subcontractors will be required to pay minimum wage rates as established by the Missouri Division of Labor Standards. Minimum wage requirements are identified on the current wage rates included at the end of Section 4.
5. The apparent low bidder shall submit “evidence of competency” and “evidence of financial responsibility” to the Engineer no later than three business days after the specified date for opening bids. Reference Section 20-01 of the General Provisions for additional information.
6. The Contractor and his/her Subcontractors will be required to provide certificates of insurance for at least the minimum amounts specified in Section 4: Supplementary Provisions, Part B: Local Provisions.
7. The Contractor is required to provide a 10-hour OSHA construction safety program for all employees who will be on-site at the Project as provided on Page 4-2.
8. Each individual Sponsor will provide the successful bidder of each package a state sales tax exempt certification. The successful bidder needs to request this from each individual Sponsor prior to procurement of any materials for the project.
9. Per Section 80-01 Subletting of Contract of the General Provisions, the Prime Contractor shall perform, with their organization, an amount of work equal to at least 25% of the total contract cost.

C. Contract Proposal Forms:

1. Proposals must be submitted on the “OFFICAL BID FORM” provided by Drexel Technologies for the submittal of bid.
2. The bidder must submit a bid for **ALL SCHEDULES** in the West or East Package. The bidder must submit a bid for each Base Bid **AND** each Add Alternate (if applicable). At the time of the bid opening, Lochner will read the base bid and add alternate (if applicable) for each schedule and create a bid tabulation for each package. An evaluation will be completed based on overall costs and the recommendation for award will be determined based upon which scenario best serves the Owner.
3. Bidders may submit on both the West and East packages and have the opportunity to successfully be awarded both projects. It is MoDOT, Lochner, and the Sponsor’s preference to complete these projects during the 2021 construction season to the fullest extent possible.



4. When completing the Proposal Form, the unit price needs to be written in numerical form in the column under the header “Unit Price” and the extension (quantity x unit price) needs to be written in numerical form. All bidders submitting proposals must acknowledge receipt of all addendums issued in the space provided in the Proposal in Section j. Acknowledgements by Bidder.
5. As part of the OFFICIAL BID FORM, the bidder is required to complete the Worker Eligibility Verification Affidavit. Note also that you are required to submit with your proposal a completed copy of the first page and a valid copy of the signature page of your E-Verify Memorandum of Understanding.
6. The entire Proposal Form needs to be completed and signed.
7. If for some reason any of the pages of the Proposal Form are changed by addendum, the entire OFFICIAL BID FORM will be re-issued.
8. The successful bidder will be required to execute the Contract Agreement, the Performance Bond and the Payment Bond. The bonds will be in the amount of 100% of the contract price for either the West or East package. Contracts will be prepared between the successful bidder and each individual Sponsor.

#### IV. Project Information:

- A. The contract performance time for all schedules is **forty-five (45) calendar days** from the date of the Construction Notice-to-Proceed. All project work shall be substantially completed within this stated timeframe and is subject to liquidated damages as prescribed in the project manual if not completed in time.
- B. It is the intent of all Sponsors to be as flexible as possible with regards to issuing a Notice-to-Proceed and coordinating with the other Sponsors in the West or East package. Individual Notice-to-Proceeds will be issued with the preference to substantially complete these projects during the 2021 construction season.
- C. Liquidated damages are set at \$1,500.00 per calendar day for the Total Project time allotted for each schedule. Delays due to weather and other factors out of the control of the Contractor **that are above and beyond a typical season** may be requested in writing as a reason for contract period extension. The request should be made as soon as the Contractor is aware of an issue with the construction period. The Contractor shall also make every attempt to make up any lost days by working extended periods during the day and/or weekends.
- D. Lochner will provide Construction Observation and acceptance testing throughout the project.
- E. All bidders should carefully review the Construction Safety and Phasing Plan (CSPP) in the Appendix of the project manual. **The Contractor shall submit a Safety Plan Compliance Document (SPCD) detailing how they will comply with the Construction Safety and Phasing Plan. This SPCD must be approved by the Engineer prior to the issuance of the notice to proceed.**
- F. Contractor’s access roads, haul roads, and staging areas are shown on the Safety and Details Plan sheet included with each plan set. The Contractor is responsible for restoring any access roads, haul roads, and staging areas to their original, pre-construction condition at no additional cost to the Owner.
- G. During construction, the airport will be closed. Closed Runway Markings and Low Profile Barricades shall be placed as shown on the Plans.

- H. Extreme caution shall be used when working near underground electrical cable and other utilities. The Contractor shall notify Missouri One Call, (1-800-344-7483) a minimum of 48 hours prior to any construction activities to allow sufficient time to locate and mark any existing field cables or utility which might be affected by this project. Should damage occur to any of these items, they will be replaced immediately at the Contractor's expense to the satisfaction of the Engineer and the Owner.
- I. The Contractor is required to complete all utility coordination with each Sponsor's utility provider. Lochner has reached out to each Sponsor's utility provider during the design process. Contact information is listed within each plan set. Any permitting or connection related costs shall be the responsibility of the Contractor.

## **V. Demolition:**

- A. All items marked for removal shall be disposed of off airport property. In some cases, the existing segmented circle markers are to be utilized for the new primary wind cone. The Contractor is required to determine the condition of the salvaged segmented circle markers, and if new markers are required, they shall be ordered and placed at the Engineer's discretion.

## **VI. Electrical Construction:**

- A. Installation of conduit by plowing method is acceptable.
- B. The Contractor shall have the option of installing the electrical counterpoise system by the Equipotential Method (in the same trench as the conduit) or the Isolation Method (in a separate trench from the conduit). If installed in the same trench as the conduit, the counterpoise wire shall be connected to the ground lug of each light base and ground rods installed at intervals not to exceed 500 feet. If the counterpoise is installed in a separate trench, with ground rods installed at intervals not to exceed 500 feet, then a ground rod shall also be installed at each light base.
- C. The cable quantities listed do not include the three foot of slack required at each connection. This amount is subsidiary to the contract item.
- D. All concrete for this project shall be in accordance with MO-610 of the Project Specifications, and all materials shall conform to the requirements of the 2004 Missouri Standard Specifications for Highway Construction, Section 501 for Class B Concrete.
- E. The 2-Box LED PAPI systems will be purchased and installed by the Contractor. The requirements for the PAPIs are that they comply with MO-120 of the Project Specifications. Additionally, they shall conform to the requirements listed in FAA AC 150/5345-2A and the PAPI manufacturer shall be listed on the FAA approved manufacturer list as shown in the Appendix of the Project Specifications.
- F. The Contractor shall have a representative on site during the FAA flight check for commissioning of the new PAPI systems.
- G. Edge light and retroreflective marker heights vary per location. Reference each plan set for appropriate information and pay item descriptions.

## **VII. Additional Notes:**

- A. Boring logs are included within the Plans to identify if rock was encountered prior to a depth of three feet at the respective location.
- B. All areas disturbed during construction shall be seeded and mulched in accordance with MO-901 and MO-908 of the Project Specifications. Lump Sum Bid Item "Seeding and Hydro-Mulch" is included with the proposal section for each schedule.

- C. For the Bonne Terre Airport (East Package, Schedule B), per General Note No. 14 on Plan Sheet 2, all excess excavation shall be retained on site and spread out as directed by the Engineer, due to the potential for lead contamination.
- D. Any grading and site preparation required for construction of the electrical vault concrete pad shall be considered subsidiary to other items.
- E. During construction, the first pay estimate shall be processed when necessary. All subsequent pay estimates will only be processed once the prime contractor has submitted lien releases from their subcontractors.
- F. A contractor furnished Engineer's Field Office is not required.

**VIII. Proposed Addendum Items:**

- A. None at this time.

**IX. Open Discussion.**

- A. Materials on hand shall be paid upon confirmation of receipt of materials for the proposed work.

**Engineering Design Report**  
**for the**  
**MoDOT Airport Lighting Package – Western Half**

**Schedule A: Albany Municipal Airport (K19)**

**Base Bid**

Install Base Mounted Runway Edge and Threshold Lights  
Install Base Mounted Taxiway Edge Lights and Retroreflective Markers  
Install Non-Lighted Runway Holding Position Sign  
Replace Primary Wind Cone  
Install Rotating Beacon  
Install Electrical Vault Enclosure, Equipment, and Controls

**Add Alternate**

Replace Existing VGSI System with 2-Box PAPI Systems for Runways 1 and 19

**Schedule B: Carrollton Memorial Airport (K26)**

**Base Bid**

Install Base Mounted Runway Edge and Threshold Lights  
Install Base Mounted Taxiway Edge Lights and Retroreflective Markers  
Install Non-Lighted Runway Holding Position Sign  
Replace Primary Wind Cone  
Replace Rotating Beacon  
Install Electrical Equipment and Controls

**Add Alternate**

Install 2-Box PAPI Systems for Runways 18 and 36

**Schedule C: Roy Otten Memorial Airfield (3VS)**

**Base Bid**

Install Base Mounted Runway Edge and Threshold Lights  
Install Base Mounted Taxiway Edge Lights and Retroreflective Markers  
Install Non-Lighted Runway Holding Position Sign  
Replace Primary Wind Cone and Install Supplemental Wind Cone  
Install Electrical Vault Enclosure, Equipment, and Controls

**Schedule D: Ava Bill Martin Memorial Airport (AOV)**

**Base Bid**


Install Base Mounted Runway Edge and Threshold Lights  
Install Base Mounted Taxiway Edge Lights and Retroreflective Markers  
Install Non-Lighted Runway Holding Position Signs  
Install Electrical Vault Enclosure, Equipment, and Controls


**Add Alternate**


Replace Existing VASI with 2-Box PAPI System for Runway 13





LEGEND


 LED Runway Edge Light


 LED Runway Threshold Light


 LED Taxiway Edge Light


 Retroreflective Marker

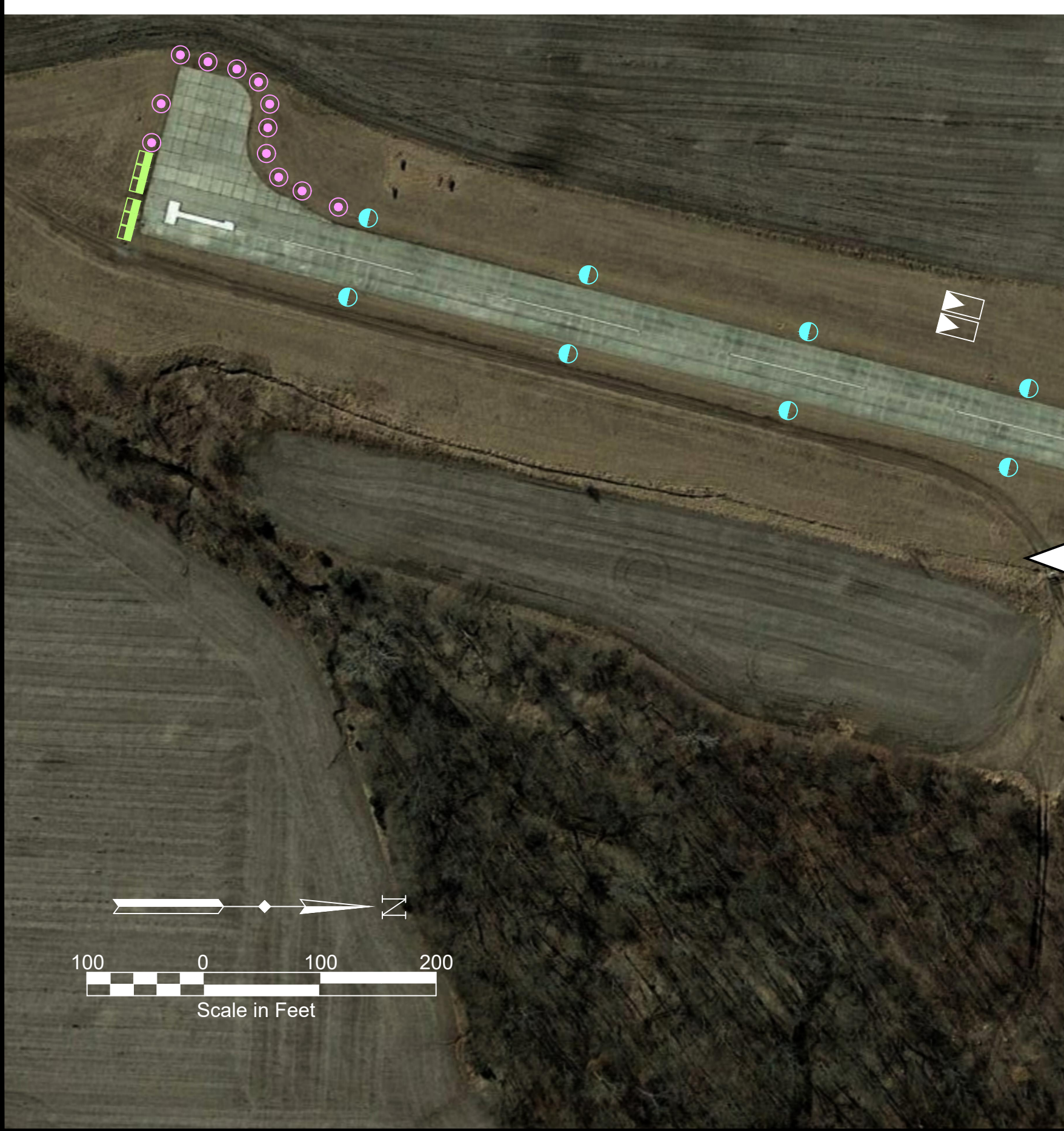
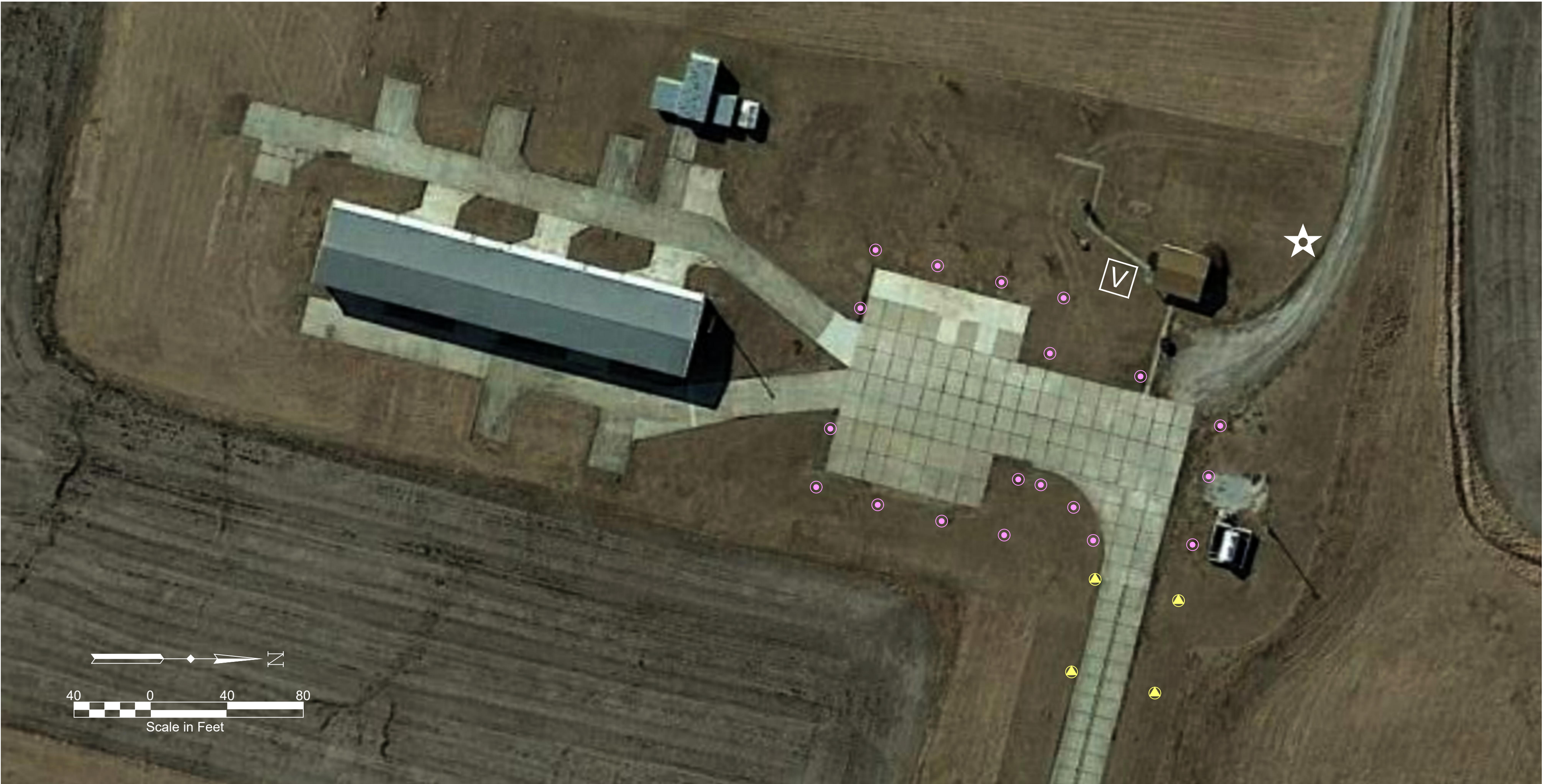
 2-Box PAPI System (ADD ALT.)

 Primary Wind Cone

 Rotating Beacon

 Non-Lighted Holding Position Sign

 Electrical Vault Building



This document is preliminary in nature and is not a final signed and sealed document.

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CITY OF ALBANY, MISSOURI

ALBANY MUNICIPAL AIRPORT (K19)

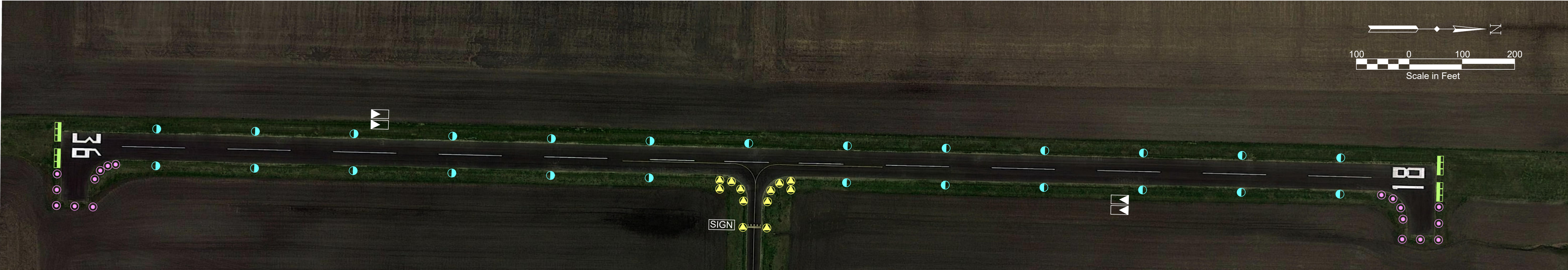
ALBANY, MISSOURI

PROJECT NO.	000015616
DRAWN BY	IJW
CHECKED BY	MJJ
DESIGNED BY	IJW
REVISIONS	









APPENDIX II A  
PROJECT  
IMPROVEMENT  
OVERVIEW

II A





LEGEND

-  LED Runway Edge Light
-  LED Runway Threshold Light
-  LED Taxiway Edge Light
-  Retroreflective Marker
-  2-Box PAPI System (ADD ALT.)
-  Primary Wind Cone
-  Rotating Beacon
-  Non-Lighted Holding Position Sign
-  Electrical Vault Building

This document is preliminary in nature and is not a final signed and sealed document.

TOWN OF CARROLLTON, MISSOURI

CARROLLTON MEMORIAL AIRPORT (K26)

CARROLLTON, MISSOURI

PROJECT NO.	000015616
DRAWN BY	IJW
CHECKED BY	MJJ
DESIGNED BY	IJW
REVISIONS	

APPENDIX II B  
PROJECT  
IMPROVEMENT  
OVERVIEW

II B

LOCHNER

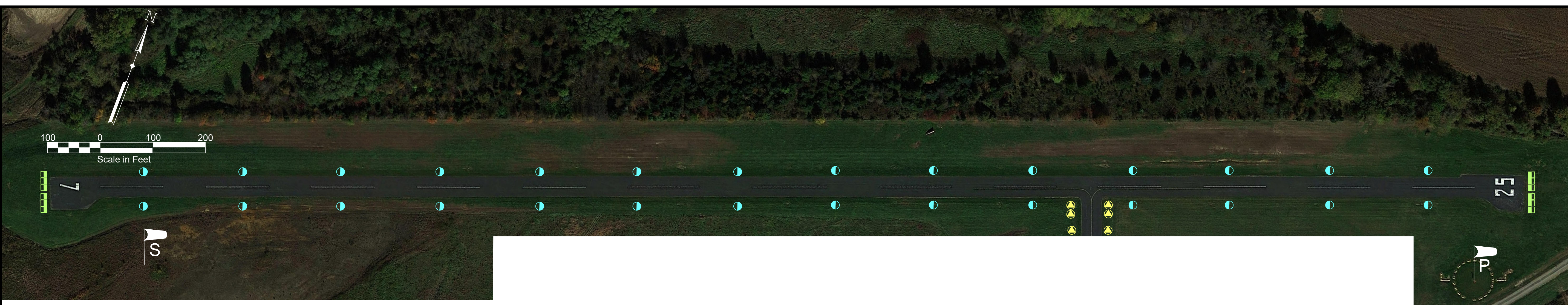
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Plot Style: ae.ctb

Layout Name: GENERAL LAYOUT

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LEGEND

LED Runway Edge Light

LED Runway Threshold Light

LED Taxiway Edge Light

Retroreflective Marker

2-Box PAPI System

REIL System

Primary Wind Cone

Supplemental Wind Cone

Rotating Beacon

Non-Lighted Holding Position Sign

Electrical Vault Building

NOTE:

1. FAA Form 7460, "Notice of Proposed Construction or Alteration", will be submitted for airspace evaluation as part of the design process to ensure the Primary and Supplemental Wind Cones do not penetrate the FAA standard surfaces.



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CITY OF VERSAILLES, MISSOURI

ROY OTTEN MEMORIAL AIRFIELD (3VS)  
VERSAILLES, MISSOURI

PROJECT NO. 000015616

DRAWN BY IJW DATE 06/08/2020

CHECKED BY MJJ DATE 06/08/2020

DESIGNED BY IJW DATE 06/08/2020

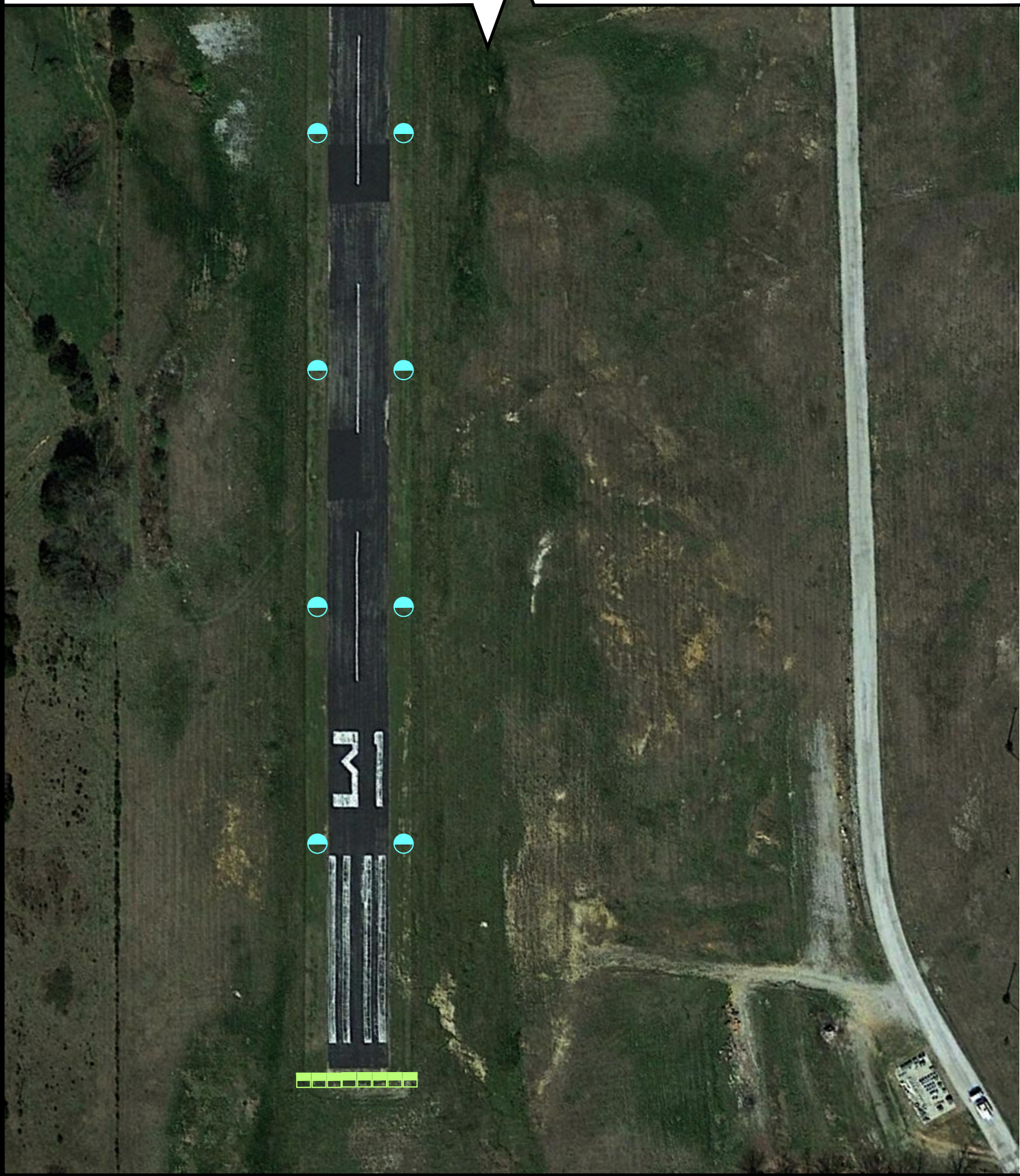
REVISIONS

APPENDIX II C  
PROJECT  
IMPROVEMENT  
OVERVIEW

II C



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LEGEND

LED Runway Edge Light

LED Runway Threshold Light

LED Taxiway Edge Light

Retroreflective Marker

2-Box PAPI System (ADD ALT.)

REIL System

Primary Wind Cone

Rotating Beacon

Non-Lighted Holding Position Sign

Electrical Vault Building



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CITY OF AVA, MISSOURI

AVA BILL MARTIN MEMORIAL AIRPORT (AOV)

AVA, MISSOURI

PROJECT NO.	000015616
DRAWN BY	IJW
CHECKED BY	MJJ
DESIGNED BY	IJW
REVISIONS	

APPENDIX II D

PROJECT

IMPROVEMENT

OVERVIEW

II D



**Engineering Design Report**  
**for the**  
**MoDOT Airport Lighting Package – Eastern Half**

**Schedule A: Captain Ben Smith Airfield (K52)**

**Base Bid**

Install Base Mounted Runway Edge and Threshold Lights  
Install Base Mounted Taxiway Edge Lights  
Replace Existing 2-Box PAPI Systems for Runways 9 and 27  
Install Non-Lighted Runway Holding Position Signs  
Replace Primary Wind Cone  
Install Electrical Equipment and Controls

**Schedule B: Bonne Terre Municipal Airport (1BT)**

**Base Bid**

Install Base Mounted Runway Edge and Threshold Lights  
Install Base Mounted Taxiway Edge Lights and Retroreflective Markers  
Install Non-Lighted Runway Holding Position Sign  
Install Supplemental Wind Cone  
Install Rotating Beacon  
Install Electrical Vault Enclosure, Equipment, and Controls

**Schedule C: Campbell Municipal Airport (34M)**

**Base Bid**

Install Base Mounted Runway Edge and Threshold Lights  
Install Base Mounted Taxiway Edge Lights and Retroreflective Markers  
Install Non-Lighted Runway Holding Position Signs  
Install 2-Box PAPI System for Runways 18 and 36  
Replace Primary Wind Cone  
Install Rotating Beacon  
Install Electrical Equipment and Controls



LEGEND

LED Runway Edge Light

LED Runway Threshold Light

LED Taxiway Edge Light

Retroreflective Marker

2-Box PAPI System

REIL System

Primary Wind Cone

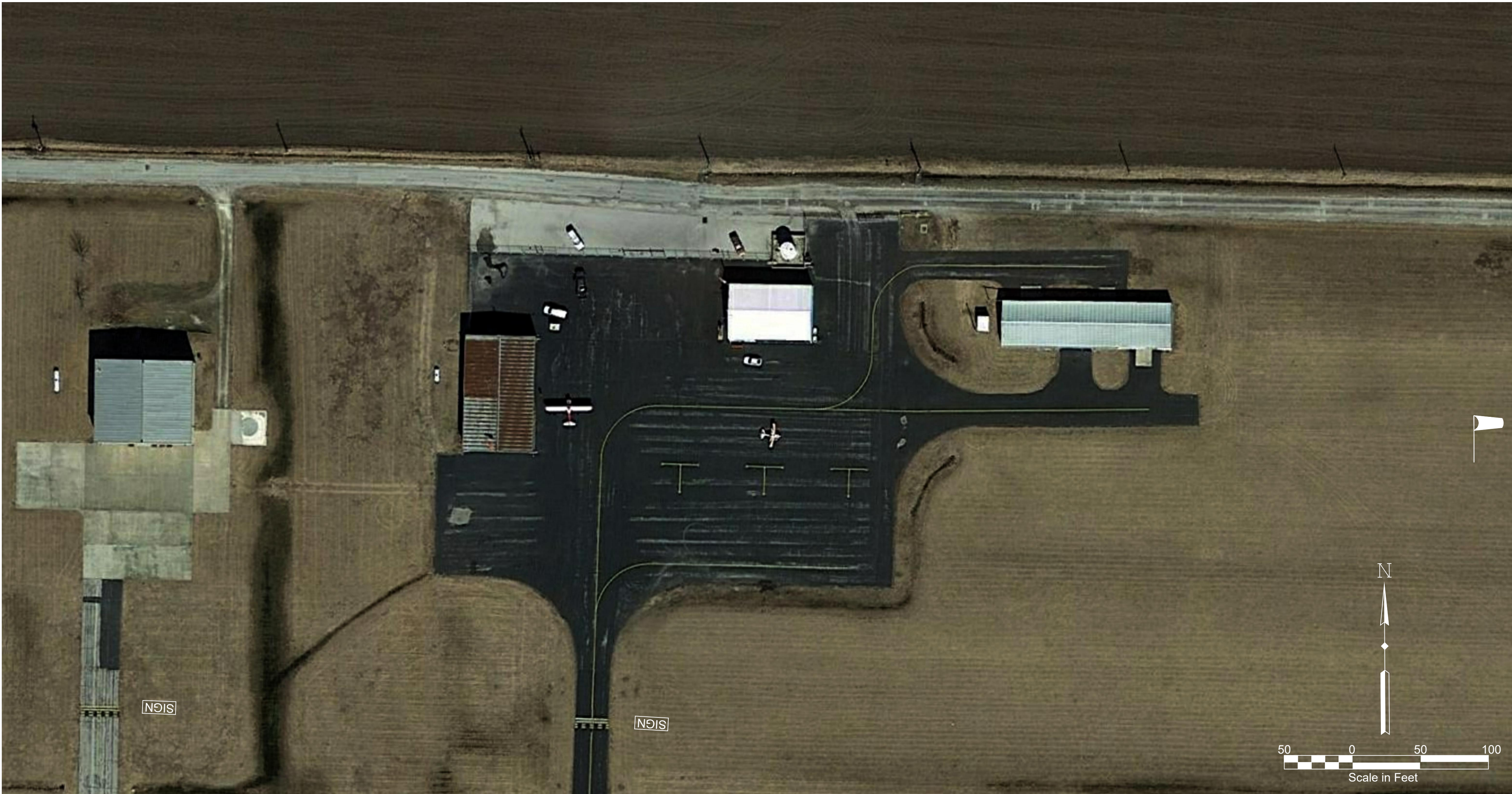
Rotating Beacon

SIGN

Non-Lighted Holding Position Sign

V

Electrical Vault Building



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CITY OF MONROE CITY, MISSOURI

CAPTAIN BEN SMITH AIRFIELD (K52)  
MONROE CITY, MISSOURI

PROJECT NO.	000015616
DRAWN BY	IJW
DATE	06/19/2020
CHECKED BY	MJJ
DATE	06/19/2020
DESIGNED BY	IJW
DATE	06/19/2020
REVISIONS	DATE

APPENDIX II A  
PROJECT  
IMPROVEMENT  
OVERVIEW

II A





LEGEND

LED Runway Edge Light

LED Runway Threshold Light

LED Taxiway Edge Light

Retroreflective Marker

2-Box PAPI System

REIL System

Supplemental Wind Cone

Rotating Beacon

Non-Lighted Holding Position Sign

Electrical Vault Building

NOTE:

- Typically Rotating Beacons are installed on a pole at a height of 60'. However, the Rotating Beacon depicted in this drawing shall be installed on a pole that is 18' in height or less to meet the surface penetration requirements set forth by the FAA. To meet the 7:1 Primary Surface, the Rotating Beacon location depicted must be sighted at a minimum of 251' from the Runway 14-32 centerline on an 18' or less pole.
- Due to constraints with existing features around the airport and penetration of FAA surface requirements, the Primary Wind Cone will no longer be considered for this project. A Supplemental Wind Cone mounted to a frangible support will be designed and sighted so long as it is not penetrating the Runway 14-32 Safety Area. The location of the Supplemental Wind Cone does not penetrate the Runway 14-32 Safety Area.
- Field survey determined that the siting of REILs is not feasible due to terrain.



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CITY OF BONNE TERRE, MISSOURI

BONNE TERRE MUNICIPAL AIRPORT (1BT)

BONNE TERRE, MISSOURI

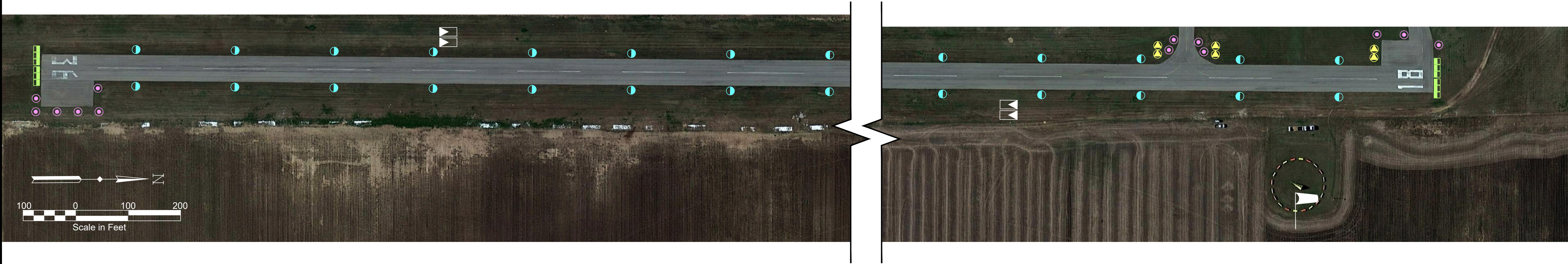
PROJECT NO.	000015616
DRAWN BY	IJW
DATE	06/19/2020
CHECKED BY	MJJ
DATE	10/02/2019
DESIGNED BY	IJW
DATE	06/19/2020
REVISIONS	

APPENDIX II B  
PROJECT  
IMPROVEMENT  
OVERVIEW

II B



Drawing Name: I:\A\IPR\000015616\01 - MODOT 7 PACK\AE02 - REPORTS\DESIGN REPORT\East\APPENDIX02 Project Improvements\34M Campbell.dwg, Oct 19, 2020 - 8:01am Saved By: lwright 2020/06/24  
Layout Name: GENERAL LAYOUT  
Plot Style: ae.ctb



LEGEND	
	LED Runway Edge Light
	LED Runway Threshold Light
	LED Taxiway Edge Light
	Retroreflective Marker
	2-Box PAPI System
	REIL System
	Primary Wind Cone
	Rotating Beacon
	Non-Lighted Holding Position Sign
	Electrical Vault Building

This document is preliminary in nature and is not a final signed and sealed document.

CITY OF CAMPBELL, MISSOURI

CAMPBELL MUNICIPAL AIRPORT (34M)

CAMPBELL, MISSOURI

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PROJECT NO.	000015616
DRAWN BY	IJW
CHECKED BY	MJJ
DESIGNED BY	IJW
REVISIONS	

APPENDIX II C  
PROJECT  
IMPROVEMENT  
OVERVIEW

II C



# MISSOURI 2019 AIRPORT LIGHTING PACKAGE

## West Package

Schedule A: Albany Municipal Airport (K19)  
Schedule B: Carrollton Memorial Airport (K26)  
Schedule C: Roy Otten Memorial Airfield (3VS)  
Schedule D: Ava Bill Martin Memorial Airport (AOV)

## East Package

Schedule A: Captain Ben Smith Airfield (K52)  
Schedule B: Bonne Terre Municipal Airport (1BT)  
Schedule C: Campbell Municipal Airport (34M)

### ATTENDEES LIST FOR PRE-BID VIDEO CONFERENCE

Tuesday, October 27<sup>th</sup>, 2020 at 10:00 A.M. (CDT)

<u>NAME</u>	<u>REPRESENTING</u>	<u>PHONE</u>	<u>EMAIL</u>
<u>Matt Jacobs</u>	<u>Lochner</u>	<u>816.945.5840</u>	<u>mjacobs@hwlochner.com</u>
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<u>Alex Gari</u>	<u>Lochner</u>	<u>305.503.9873</u>	<u>agari@hwlochner.com</u>
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<u>Burley Loftin</u>	<u>City of Ava</u>	<u>417.683.5516</u>	<u>bloftin@avamissouri.org</u>
<u>Cole Zoglman</u>	<u>Decker Electric</u>	<u>316.858.0784</u>	<u>czoglman@decker-electric.com</u>
<u>Dave Ewing</u>	<u>Ewing Signal Construction</u>	<u>417.724.9405</u>	<u>daveewing@ewingsignals.com</u>
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