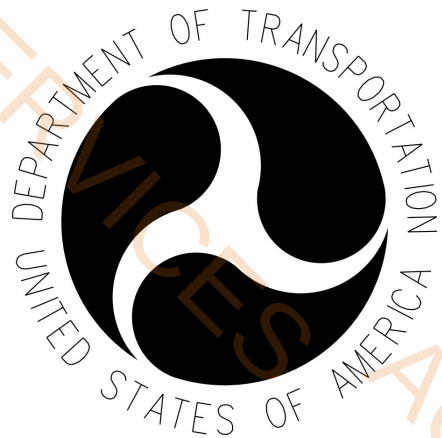
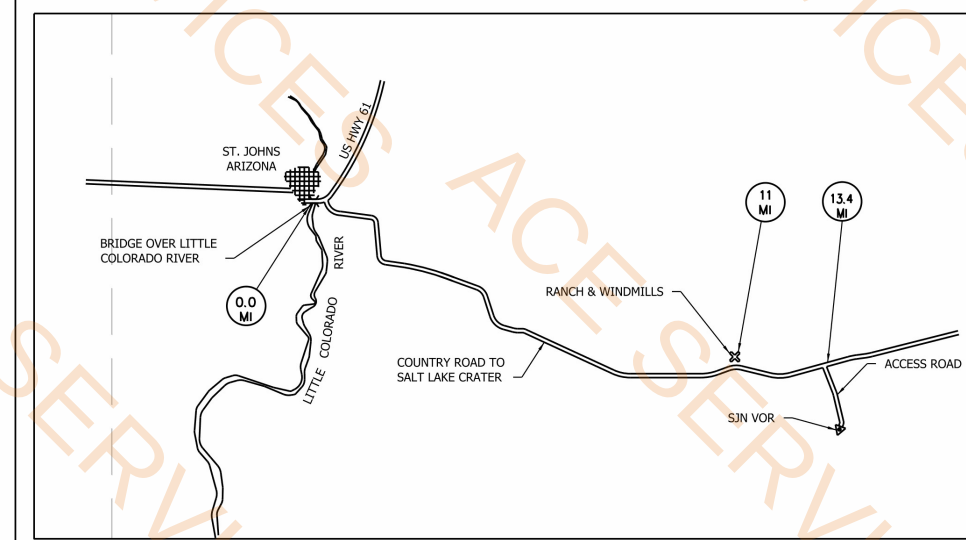




ST JOHNS SJN VOR, ARIZONA REFURBISHMENT OF FACILITY ELECTRICAL DISTRIBUTION SYSTEM, AND LIGHTING

DRAWING INDEX	
DRAWING NO.	DESCRIPTION
SJN-1603115-G001	TITLE SHEET AND DRAWING INDEX
SJN-1603115-G002	GENERAL NOTES, SYMBOL LIST AND ABBREVIATIONS
SJN-1603115-C001	VOR FACILITY LAYOUT
SJN-1603115-D001	DEMO LAYOUT
SJN-1603115-D002	LIGHTING LAYOUT
SJN-1603115-D003	EXISTING ONE-LINE DEMO
SJN-1603115-D004	EXISTING PANEL SCHEDULES
SJN-1603115-E001	NEW RECEPTACLE AND PANEL INSTALL
SJN-1603115-E002	NEW LIGHTING INSTALL AND LED SCHEDULE
SJN-1603115-E003	NEW ONE-LINE AND CONDUIT AND FEEDER SCHEDULE
SJN-1603115-E004	NEW PANEL SCHEDULE AND EQUIPMENT LIST
SJN-1603115-E005	NEW STORAGE ROOM DOOR INSTALLATION DETAIL

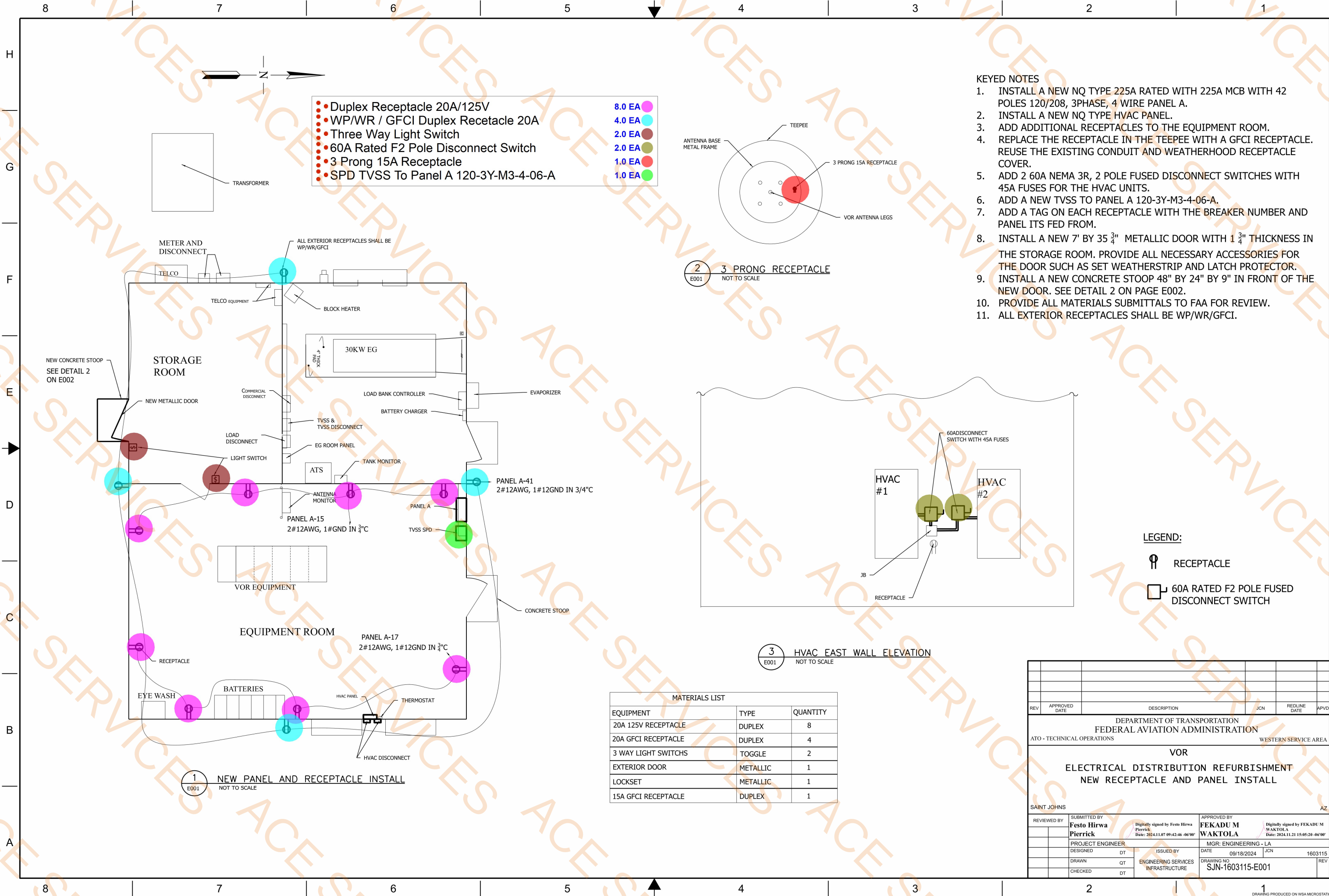


PROJECT LOCATION:
LATITUDE: 34°25'30"
LONGITUDE: 109°08'50"
ELEVATION: 6860' MSL

VICINITY MAP
NOT TO SCALE

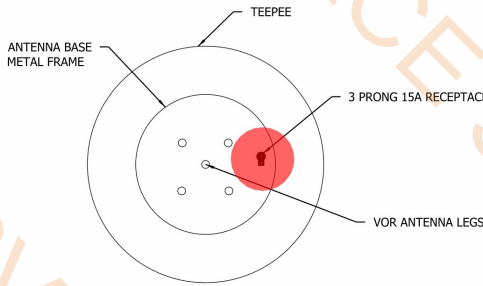
REV	APPROVED DATE	DESCRIPTION	JCN	REDLINE DATE	APVD
DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION ATO - TECHNICAL OPERATIONS WESTERN SERVICE AREA					
VOR ELECTRICAL DISTRIBUTION REFURBISHMENT TITLE SHEET AND DRAWING INDEX					
SAINT JOHNS AZ					
REVIEWED BY	SUBMITTED BY	APPROVED BY			
	Festo Hirwa Pierick	FEKADU M WAKTOLA			
	PROJECT ENGINEER	MGR: ENGINEERING - LA			
	DESIGNED DT	DATE 09/18/2024	JCN	1603115	
	DRAWN QT	ISSUED BY	ENGINEERING SERVICES INFRASTRUCTURE	DRAWING NO	SJN-1603115-G001
	CHECKED DT			REV	

1603115-E001
11/07/2024
Printed by: SPVC-CAEG-EDMS-COORD

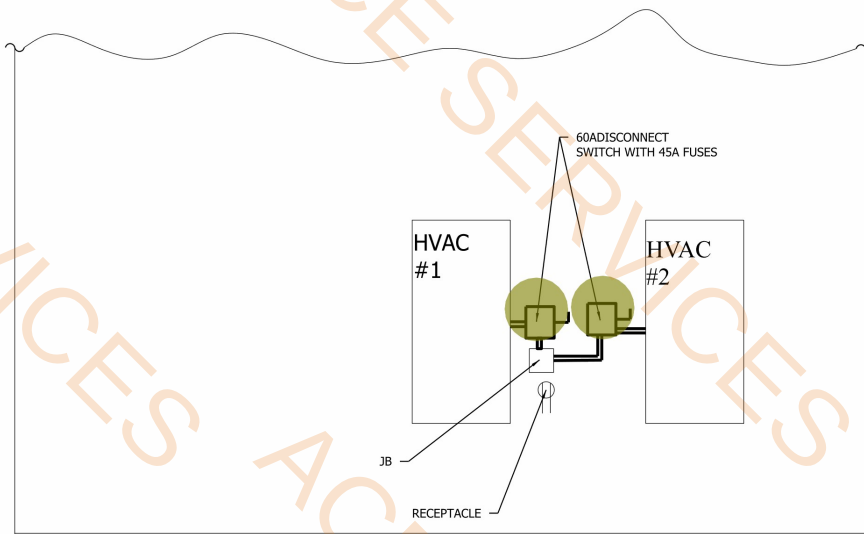


- Duplex Receptacle 20A/125V
- WP/WR / GFCI Duplex Receptacle 20A
- Three Way Light Switch
- 60A Rated F2 Pole Disconnect Switch
- 3 Prong 15A Receptacle
- SPD TVSS To Panel A 120-3Y-M3-4-06-A

- 8.0 EA
- 4.0 EA
- 2.0 EA
- 2.0 EA
- 1.0 EA
- 1.0 EA



2
E001
3 PRONG RECEPTACLE
NOT TO SCALE



3
E001
HVAC EAST WALL ELEVATION
NOT TO SCALE

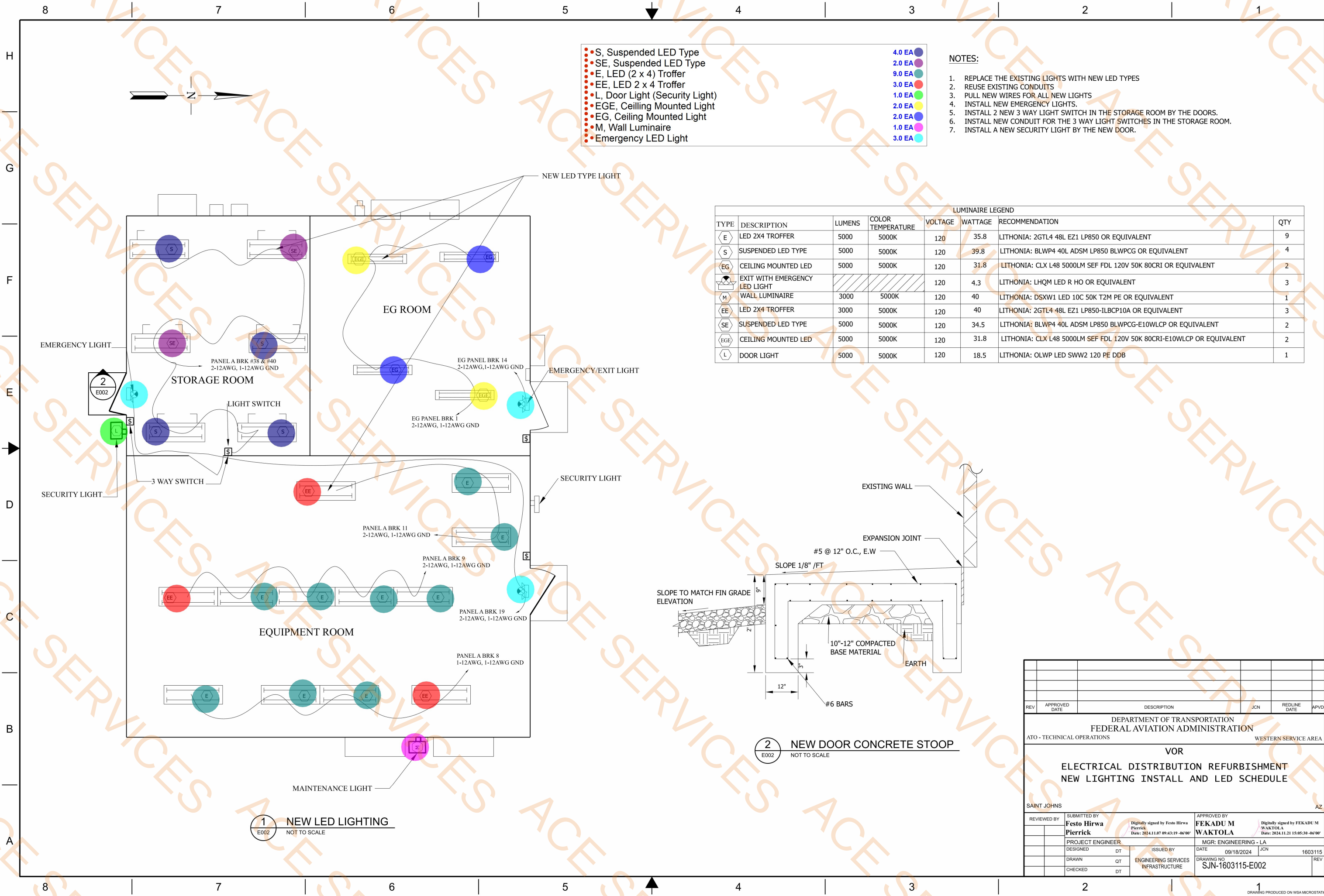
MATERIALS LIST		
EQUIPMENT	TYPE	QUANTITY
20A 125V RECEPTACLE	DUPLEX	8
20A GFCI RECEPTACLE	DUPLEX	4
3 WAY LIGHT SWITCHES	TOGGLE	2
EXTERIOR DOOR	METALLIC	1
LOCKSET	METALLIC	1
15A GFCI RECEPTACLE	DUPLEX	1

KEYED NOTES

1. INSTALL A NEW NQ TYPE 225A RATED WITH 225A MCB WITH 42 POLES 120/208, 3PHASE, 4 WIRE PANEL A.
2. INSTALL A NEW NQ TYPE HVAC PANEL.
3. ADD ADDITIONAL RECEPTACLES TO THE EQUIPMENT ROOM.
4. REPLACE THE RECEPTACLE IN THE TEEPEE WITH A GFCI RECEPTACLE. REUSE THE EXISTING CONDUIT AND WEATHERHOOD RECEPTACLE COVER.
5. ADD 2 60A NEMA 3R, 2 POLE FUSED DISCONNECT SWITCHES WITH 45A FUSES FOR THE HVAC UNITS.
6. ADD A NEW TVSS TO PANEL A 120-3Y-M3-4-06-A.
7. ADD A TAG ON EACH RECEPTACLE WITH THE BREAKER NUMBER AND PANEL ITS FED FROM.
8. INSTALL A NEW 7' BY 35 3/4" METALLIC DOOR WITH 1 3/4" THICKNESS IN THE STORAGE ROOM. PROVIDE ALL NECESSARY ACCESSORIES FOR THE DOOR SUCH AS SET WEATHERSTRIP AND LATCH PROTECTOR.
9. INSTALL A NEW CONCRETE STOOP 48" BY 24" BY 9" IN FRONT OF THE NEW DOOR. SEE DETAIL 2 ON PAGE E002.
10. PROVIDE ALL MATERIALS SUBMITTALS TO FAA FOR REVIEW.
11. ALL EXTERIOR RECEPTACLES SHALL BE WP/WR/GFCI.

REV	APPROVED DATE	DESCRIPTION	JCN	REDLINE DATE	APVD
DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION ATO - TECHNICAL OPERATIONS WESTERN SERVICE AREA					
VOR ELECTRICAL DISTRIBUTION REFURBISHMENT NEW RECEPTACLE AND PANEL INSTALL					
SAINT JOHNS AZ					
REVIEWED BY	SUBMITTED BY Festo Hirwa Pierick	Digitally signed by Festo Hirwa Pierick Date: 2024.11.07 09:42:46 -06'00'	APPROVED BY FEKADU M WAKTOLA	Digitally signed by FEKADU M WAKTOLA Date: 2024.11.21 15:05:20 -06'00'	
DESIGNED	DT	ISSUED BY	DATE	09/18/2024	JCN
DRAWN	QT	ENGINEERING SERVICES INFRASTRUCTURE	DRAWING NO	SJN-1603115-E001	REV
CHECKED	DT				

11/07/2024 11:07:52 AM
Printed by: SPVC-CAEG-EDMS-COORD



- S, Suspended LED Type
 - SE, Suspended LED Type
 - E, LED (2 x 4) Troffer
 - EE, LED 2 x 4 Troffer
 - L, Door Light (Security Light)
 - EG, Ceiling Mounted Light
 - EGE, Ceiling Mounted Light
 - M, Wall Luminaire
 - Emergency LED Light
- 4.0 EA
- 2.0 EA
- 9.0 EA
- 3.0 EA
- 1.0 EA
- 2.0 EA
- 2.0 EA
- 1.0 EA
- 3.0 EA

NOTES:

- REPLACE THE EXISTING LIGHTS WITH NEW LED TYPES
- REUSE EXISTING CONDUITS
- PULL NEW WIRES FOR ALL NEW LIGHTS
- INSTALL NEW EMERGENCY LIGHTS.
- INSTALL 2 NEW 3 WAY LIGHT SWITCH IN THE STORAGE ROOM BY THE DOORS.
- INSTALL NEW CONDUIT FOR THE 3 WAY LIGHT SWITCHES IN THE STORAGE ROOM.
- INSTALL A NEW SECURITY LIGHT BY THE NEW DOOR.

LUMINAIRE LEGEND							
TYPE	DESCRIPTION	LUMENS	COLOR TEMPERATURE	VOLTAGE	WATTAGE	RECOMMENDATION	QTY
E	LED 2X4 TROFFER	5000	5000K	120	35.8	LITHONIA: 2GTL4 48L EZ1 LP850 OR EQUIVALENT	9
S	SUSPENDED LED TYPE	5000	5000K	120	39.8	LITHONIA: BLWP4 40L ADSM LP850 BLWPCG OR EQUIVALENT	4
EG	CEILING MOUNTED LED	5000	5000K	120	31.8	LITHONIA: CLX L48 5000LM SEF FDL 120V 50K 80CRI OR EQUIVALENT	2
	EXIT WITH EMERGENCY LED LIGHT			120	4.3	LITHONIA: LHQM LED R HO OR EQUIVALENT	3
M	WALL LUMINAIRE	3000	5000K	120	40	LITHONIA: DSXW1 LED 10C 50K T2M PE OR EQUIVALENT	1
EE	LED 2X4 TROFFER	3000	5000K	120	40	LITHONIA: 2GTL4 48L EZ1 LP850-ILBCP10A OR EQUIVALENT	3
SE	SUSPENDED LED TYPE	5000	5000K	120	34.5	LITHONIA: BLWP4 40L ADSM LP850 BLWPCG-E10WLCP OR EQUIVALENT	2
EGE	CEILING MOUNTED LED	5000	5000K	120	31.8	LITHONIA: CLX L48 5000LM SEF FDL 120V 50K 80CRI-E10WLCP OR EQUIVALENT	2
L	DOOR LIGHT	5000	5000K	120	18.5	LITHONIA: OLWP LED SWW2 120 PE DDB	1

REV	APPROVED DATE	DESCRIPTION	JCN	REDLINE DATE	APVD
DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION ATO - TECHNICAL OPERATIONS WESTERN SERVICE AREA					
VOR ELECTRICAL DISTRIBUTION REFURBISHMENT NEW LIGHTING INSTALL AND LED SCHEDULE					
SAINT JOHNS					
REVIEWED BY	SUBMITTED BY Festo Hirwa Pierick	Digitally signed by Festo Hirwa Pierick Date: 2024.11.07 09:43:19 -06'00'	APPROVED BY FEKADU M WAKTOLA	Digitally signed by FEKADU M WAKTOLA Date: 2024.11.21 15:05:38 -06'00'	
DESIGNED	DT	ISSUED BY	DATE	JCN	1603115
DRAWN	QT	ENGINEERING SERVICES INFRASTRUCTURE	09/18/2024		REV
CHECKED	DT				
PROJECT ENGINEER MGR: ENGINEERING - LA DRAWING NO SJN-1603115-E002					

