

Electrical Infrastructure Existing Conditions Exhibits

for the

New FBO Terminal Building Project

Middle Georgia Regional Airport (MCN)

Bibb County, Georgia

Prepared for

Passero Associates



ANDERSON AIRFIELD CONSULTING

Facilitating Mission Success Through Critical Infrastructure Support

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NOTE: This exhibit is for general information only and is for the internal use of the Engineer. The Contractor is responsible for locating and identifying all power and communications cables which enter the abandoned FAA Avionics Building, the abandoned FAA Generator Building, the Airfield Electrical Vault, and the FBO Terminal Building prior to the start of demolition.

EXHIBIT - Cover Sheet

New FBO Terminal Building Project

Middle Georgia Regional Airport (MCN), Bibb County, Georgia

30 JAN 2024

A1



Figure 1: Front view of FAA Avionics Building



Figure 2: Local Utility transformers furnishing FAA Avionics Building

KEY NOTES

- 1. Utility Transformers
- 2. Disconnected Utility Power
- 3. Service Entrance Heads
- 4. 2" Rigid Conduit with Power Feeders

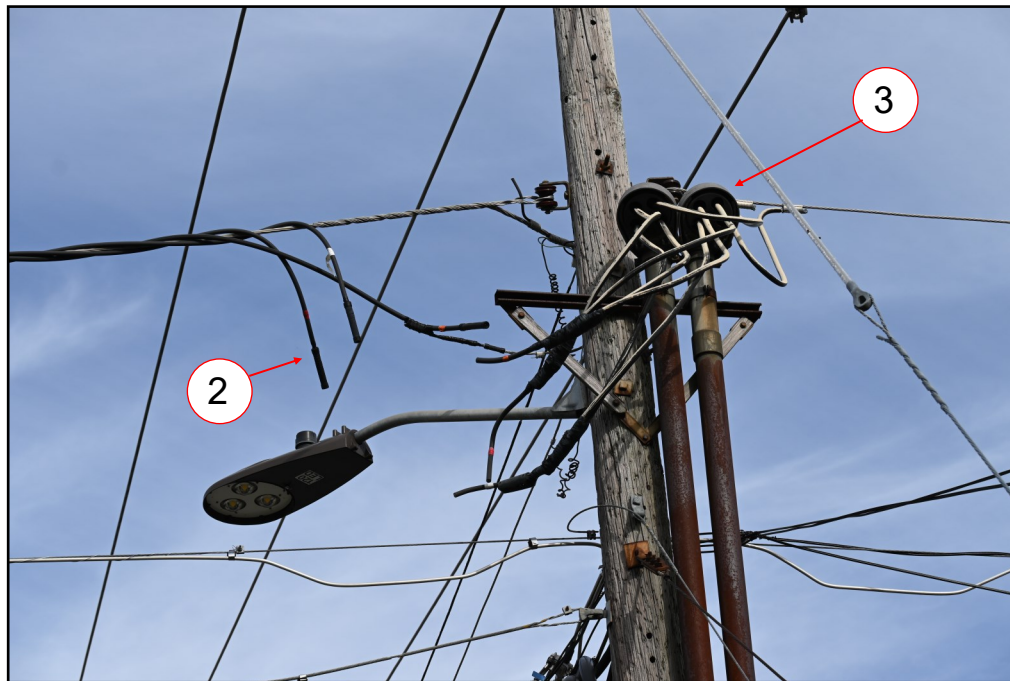


Figure 3: Disconnected Local Utility transformer secondary conductors to FAA Avionics Building



Figure 4: Utility transformer secondary feeders to main switchboard in FAA Avionics Building



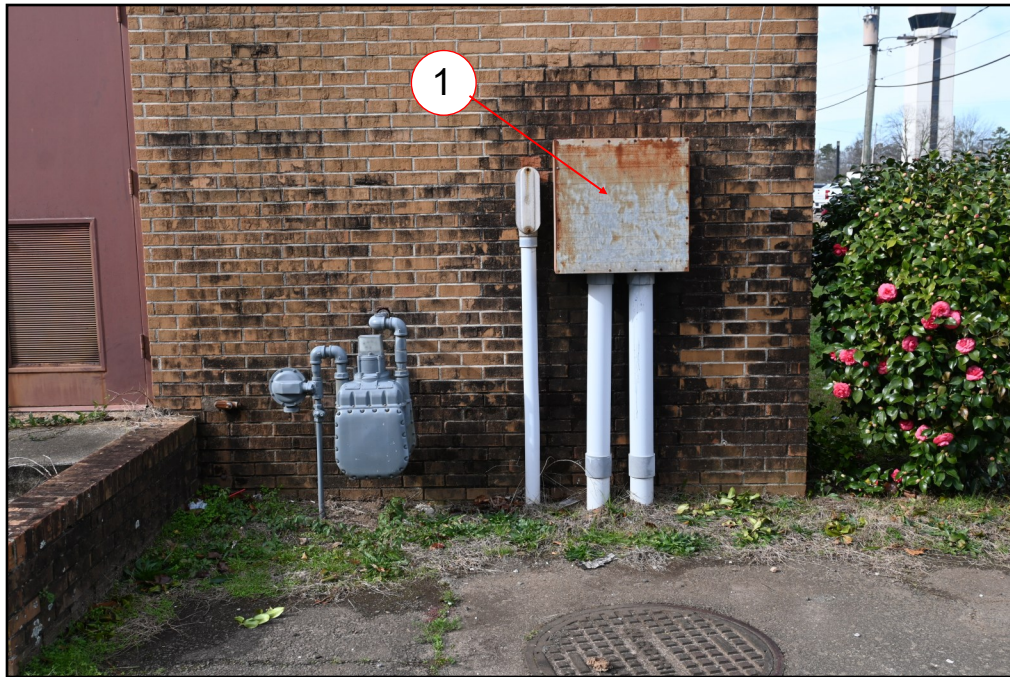


Figure 1: Abandoned electrical/communications enclosure



Figure 2: Pullbox, with Georgia Power lockouts, between incoming floor conduits and main switchboard

KEY NOTES

1. Abandoned FAA Communications pullbox
2. Pullbox with Georgia Power lockouts, Contractor shall contact Georgia Power to access for field investigation prior to demolition



Figure 3: 500 Amp main circuit breaker in 208/120 Volt 3-phase switchboard

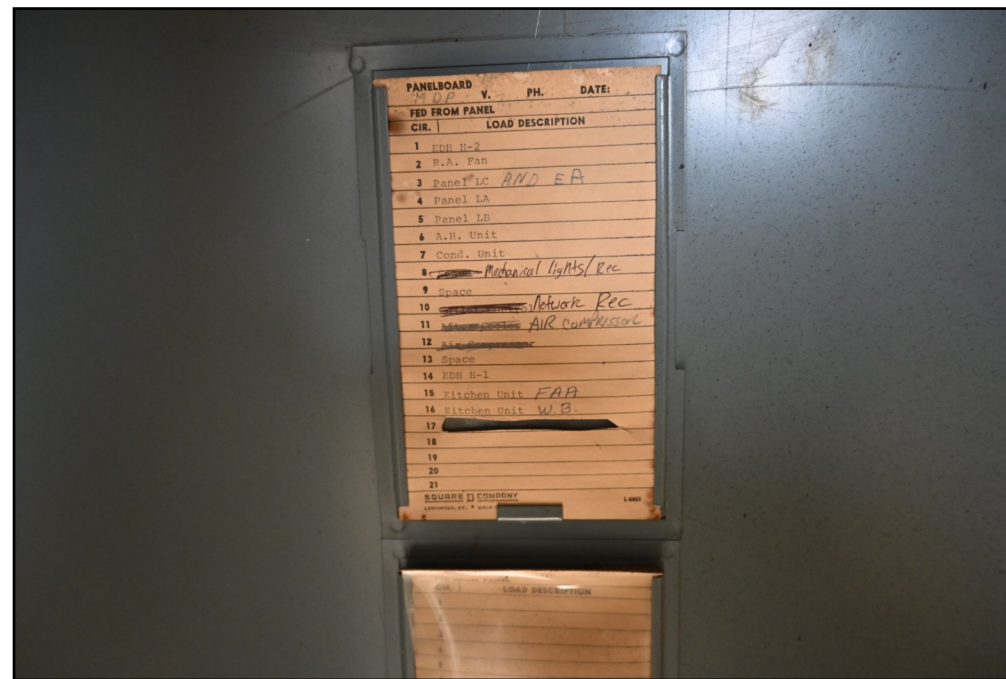


Figure 4: Main switchboard panel schedule



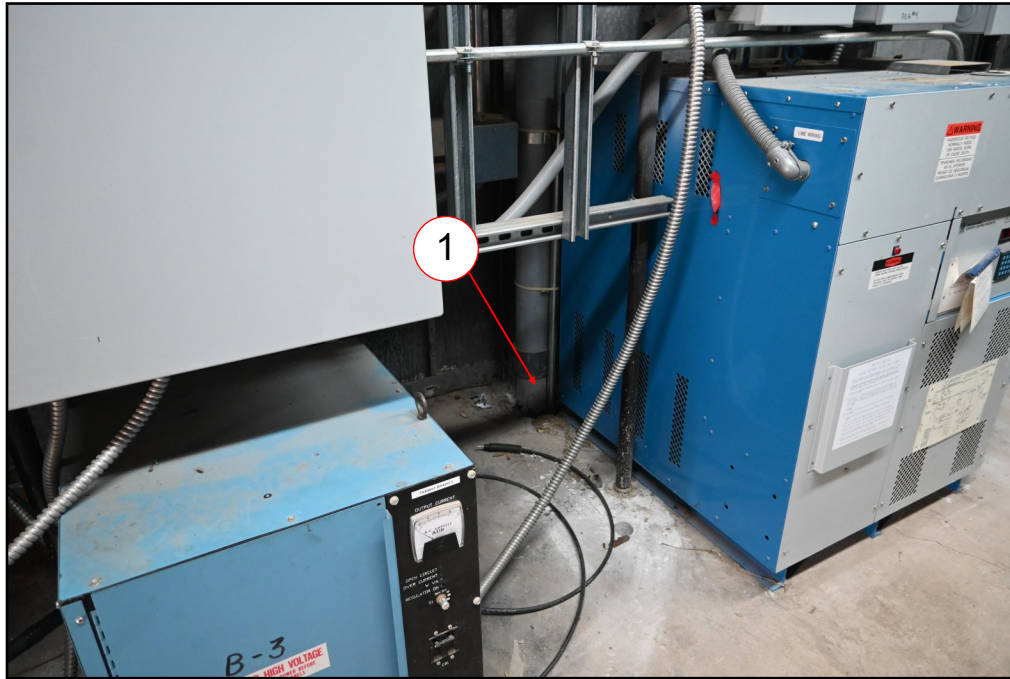


Figure 1: Incoming 4" PVC conduit at Airfield Electrical Vault routed directly to FAA Avionics Building



Figure 2: Routing of 4" PVC conduit to FAA Avionics Building

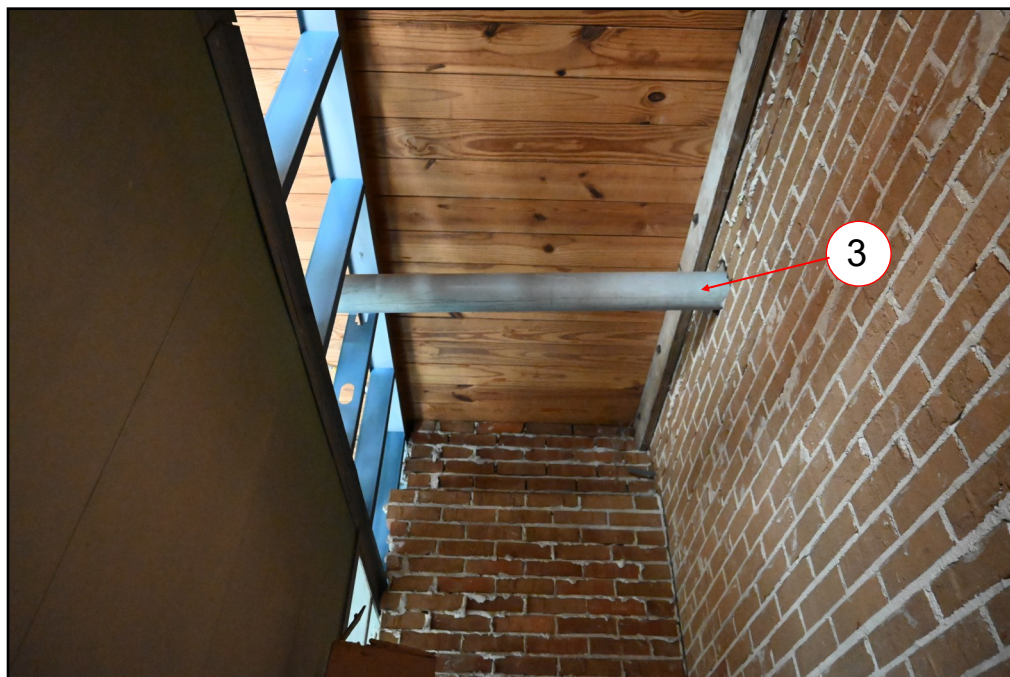


Figure 3: Penetration point of 4" PVC conduit at FAA Avionics Building exterior



Figure 4: Termination of 4" PVC conduit (abandoned) in FAA Avionics Building from Airfield Lighting Vault

KEY NOTES

1. Incoming 4" PVC conduit to FAA Avionics Building
2. Overhead routing of 4" PVC power conduit to FAA Avionics Building
3. Penetration point of 4" PVC conduit at FAA Avionics Building
4. Termination of 4" PVC conduit (abandoned) in FAA Avionics Building





Figure 1: Twin 2" PVC conduits mounted on west wall of FAA Avionics Building



Figure 2: Polymer Concrete junction structure adjacent to conduits mounted on exterior wall of FAA Avionics Building

KEY NOTES

1. Polymer concrete junction structure, Contractor shall field document contents prior to demolition
2. Abandoned 2" PVC Conduits



Figure 3: Termination of twin 2" PVC conduits (abandoned) in FAA Avionics Building from conduits mounted on west wall of FAA Avionics Building



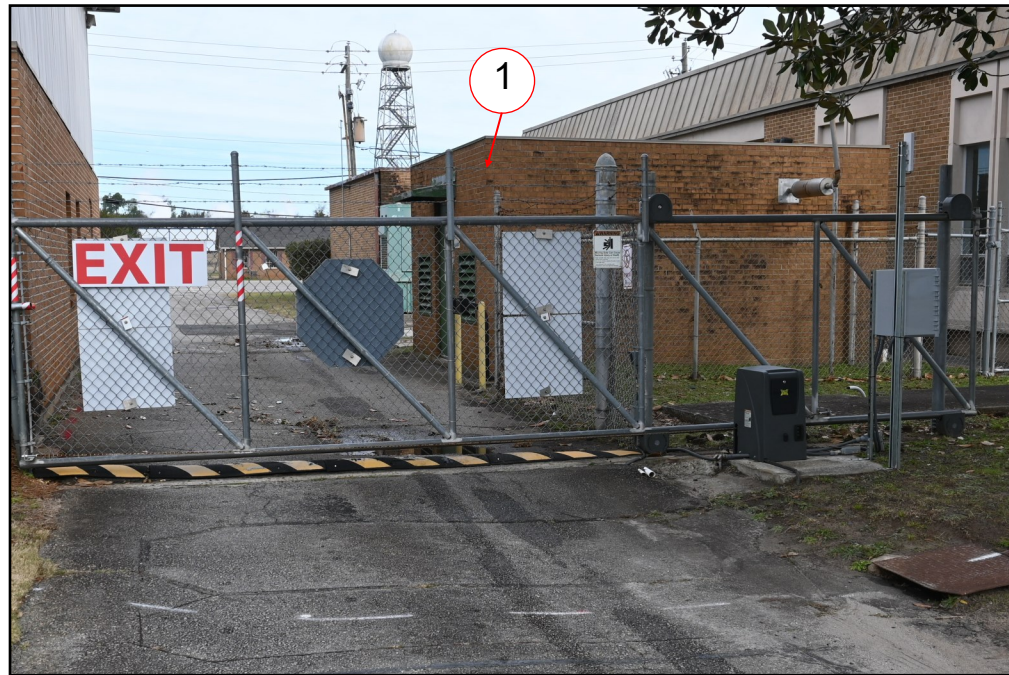


Figure 1: Southwest view of FAA Generator Building



Figure 2: Southeast view of FAA Generator Building



Figure 3: West view of FAA Generator Building

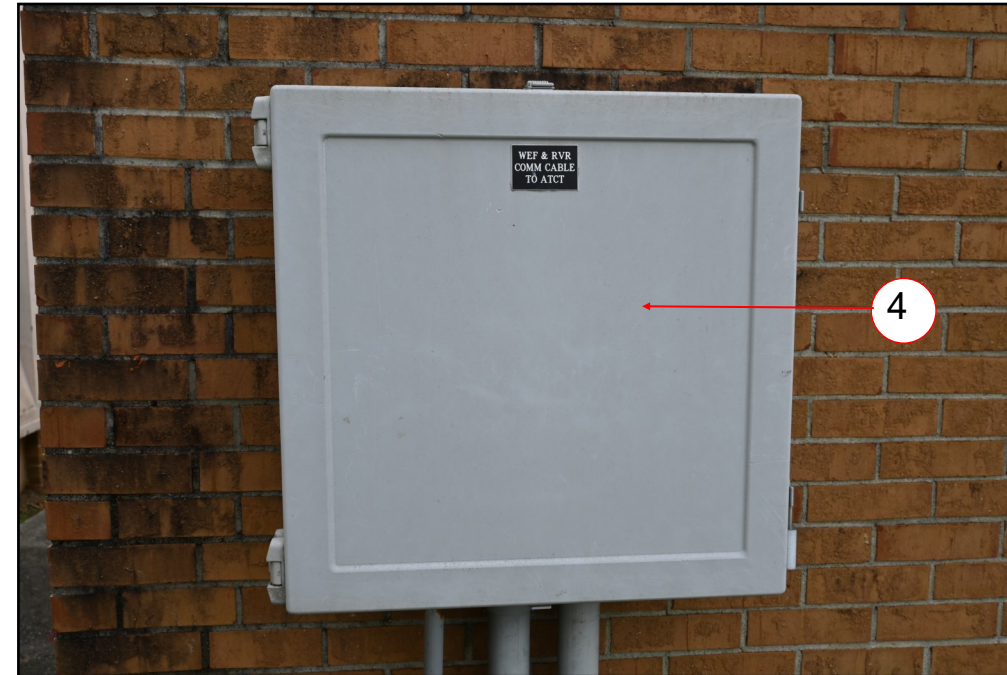


Figure 4: FAA WEF & RVR Comm Cable to ATCT Enclosure.

KEY NOTES

1. FAA Generator Building, Contractor shall contact Robbins AFB FAA SSC to access for field investigation and shall inventory contents and coordinate equipment relocation requirements (if any) prior to demolition
2. FAA Generator Building
3. FAA Generator Building
4. FAA WEF & RVR Comm Cable to ATCT enclosure, Contractor shall contact Robbins AFB FAA SSC to access for field investigation and shall inventory contents and coordinate equipment relocation requirements (if any) prior to demolition





Figure 1: Abandoned electrical equipment pad

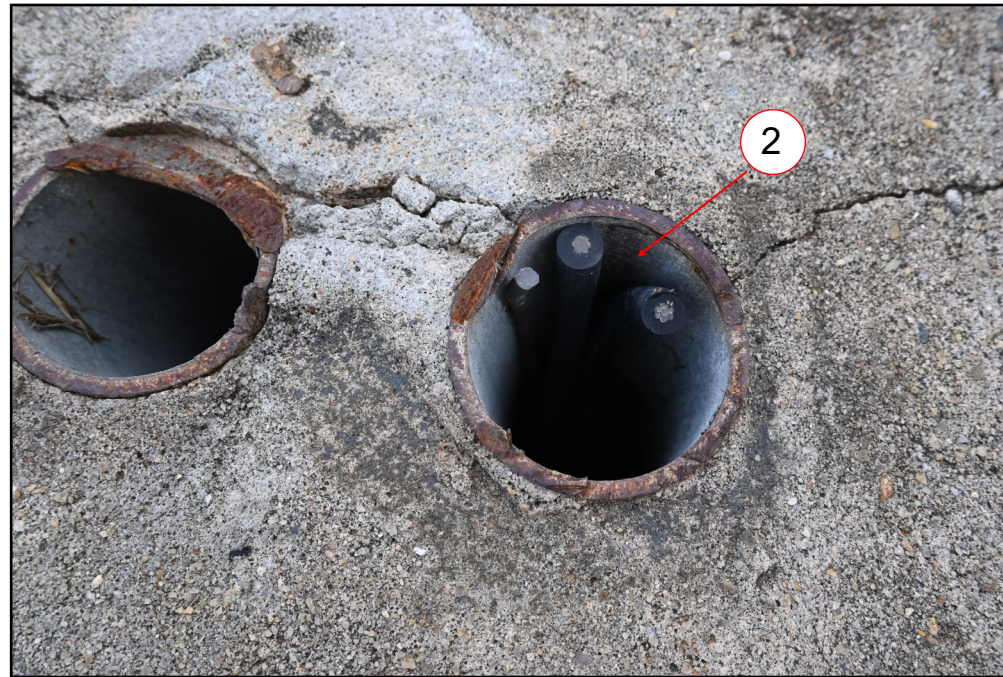


Figure 2: Conduits at abandoned electrical equipment pad

KEY NOTES

1. Abandoned electrical equipment pad
2. Abandoned electrical cables, Contractor shall field verify cable routing and remove



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EXHIBIT - FAA Generator Building

New FBO Terminal Building Project

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30 JAN 2024

C2



Figure 1: Airfield Electrical Vault at west side of FAA Avionics Building

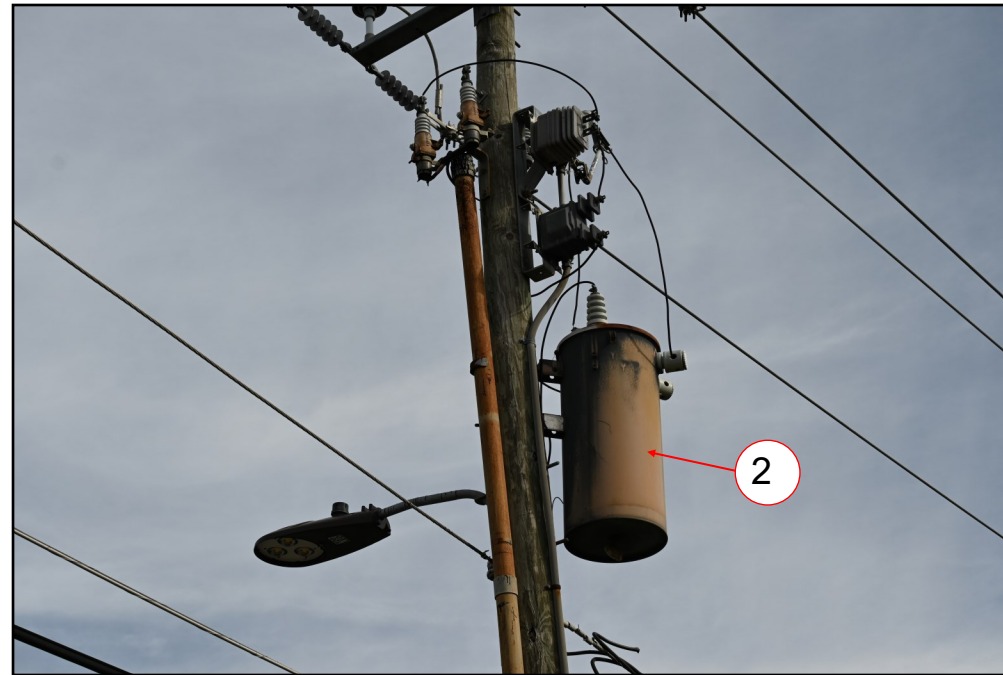


Figure 2: Utility Transformer with single-phase 2400 Volt secondary to Airfield Lighting Vault

KEY NOTES

1. Airfield Lighting Vault
2. Airfield Lighting Vault utility transformer
3. Twin 2" rigid conduits with Airfield Lighting Vault feeders
4. Electrical junction structure, Contractor shall field document contents prior to demolition



Figure 3: 2" Rigid conduit with 2400 Volt conductors to Airfield Lighting Vault

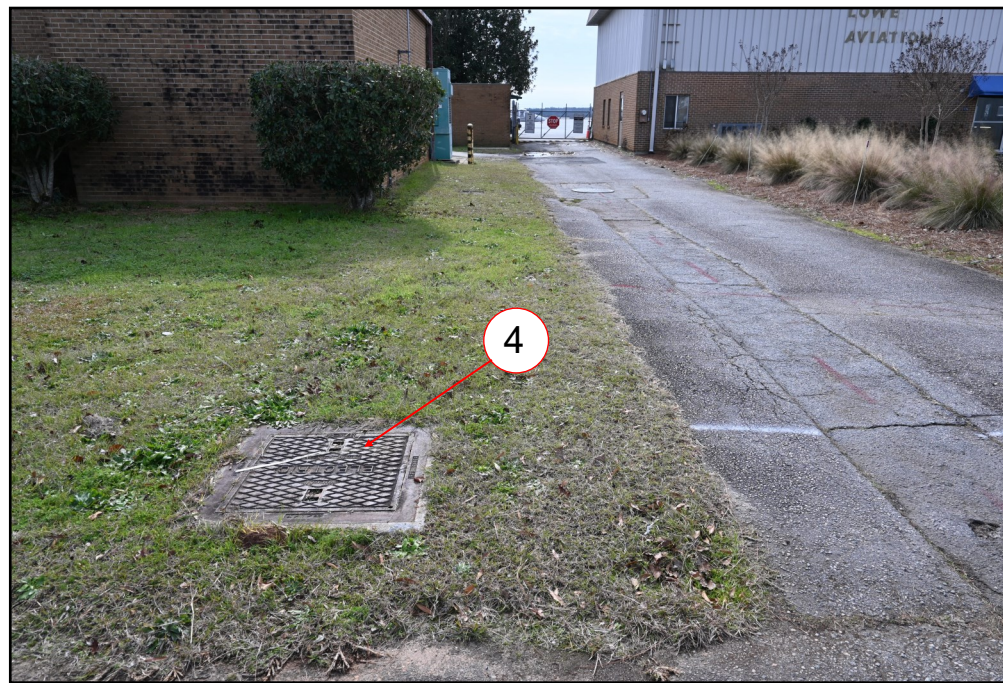


Figure 4: Electrical junction structure adjacent to Airfield Lighting Vault





Figure 1: Airfield lighting cable marker adjacent to Airfield Lighting Vault



Figure 2: Electrical junction structure adjacent to Airfield Lighting Vault

KEY NOTES

1. T/W B cable marker, Contractor shall field document routing of T/W B ductbank
2. Electrical junction structure, Contractor shall field document contents of structure prior to demolition
3. Airfield Lighting Vault incoming power transformer 1 of 2
4. Airfield Lighting Vault incoming power transformer 2 of 2



Figure 3: Airfield Lighting Vault incoming power transformer 1 of 2 (2400 Volt primary, 240 Volt secondary)



Figure 4: Airfield Lighting Vault incoming power transformer 2 of 2 (2400 Volt primary, 240 Volt secondary)





Figure 1: Southwest view of Airfield Lighting Vault generator



Figure 2: Southeast view of Airfield Lighting Vault generator

KEY NOTES

1. Entrance to Airfield Lighting Vault



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EXHIBIT - Airfield Electrical Vault

New FBO Terminal Building Project

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30 JAN 2024

D3



Figure 1: North to South view of Airfield Lighting Ductbank



Figure 2: West to East view of Airfield Lighting Ductbank

KEY NOTES

1. Airfield Lighting Ductbank
2. Airfield Lighting Ductbank
3. Electrical junction structure, Contractor shall field document contents prior to demolition
4. Electrical manhole, Contractor shall field document contents prior to demolition



Figure 3: Airfield Lighting Ductbank junction structure at south side of FAA Avionics Building



Figure 4: Airfield Lighting Ductbank junction structure at apron on south side of FAA Avionics Building





Figure 1: Front view of existing FBO Terminal Building



Figure 2: Local Utility transformers with 208/120 secondary furnishing existing FBO Terminal Building

KEY NOTES

1. Existing FBO Terminal Building
2. Existing FBO Terminal Building Utility Transformers
3. Twin incoming 200 Amp, 208/120 Volt feeders
4. Twin Incoming power feeder conduits



Figure 3: Twin 200 Amp, 208/120 Volt feeders to Existing FBO Terminal Building panel boards

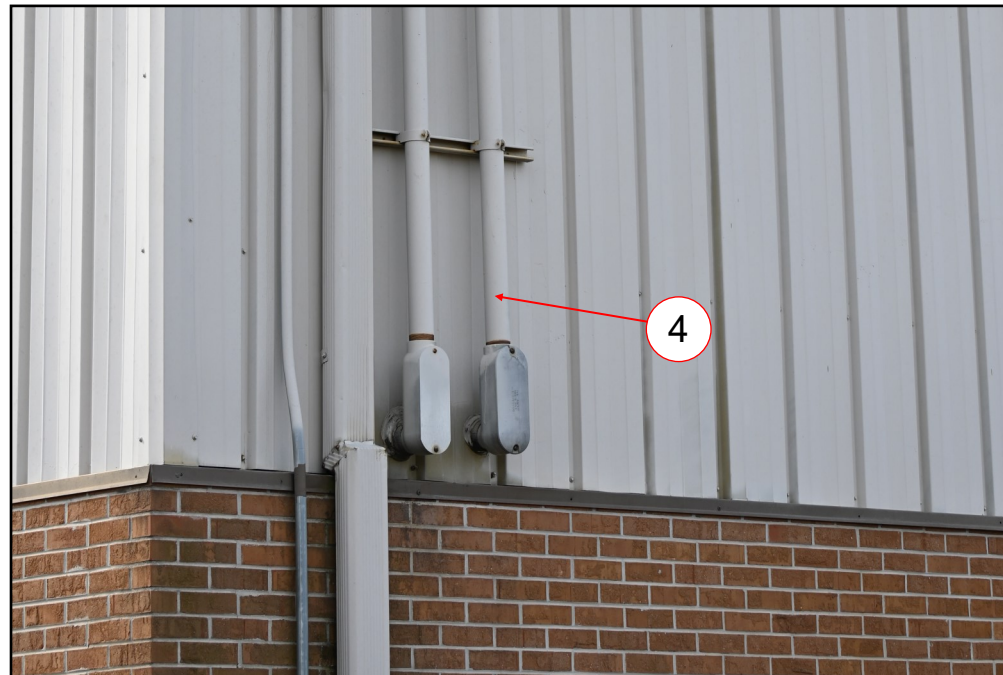


Figure 4: Twin Incoming power feeder conduits penetration point at existing FBO Terminal Building





Figure 1: Twin 208/120 Volt, 200 Amp panel boards in existing FBO Terminal Building



Figure 2: 200 Amp, 3 pole main circuit breaker for panel board 1 of 2 in existing FBO terminal Building

KEY NOTES

1. Twin 208/120 Volt, 200 Amp panel boards (first floor hallway)



Figure 3: 200 Amp, 3 pole main circuit breaker for panel board 2 of 2 in existing FBO terminal Building





KEY NOTES

1. FAA MCNA SX Disconnect Switch, Contractor shall contact Robbins AFB FAA SSC to access for field investigation and coordinate equipment relocation requirements (if any) prior to demolition

Figure 1: FAA MCNA SX Disconnect Switch 120/240 Volts in front of Existing FBO Terminal Building



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**EXHIBIT - FAA MCNA SX Disconnect
New FBO Terminal Building Project**

Middle Georgia Regional Airport (MCN), Bibb County, Georgia

30 JAN 2024

G1