THE ABOVE NAMED PROFESSIONAL ENGINEER SHALL BE RESPONSIBLE FOR THE FOLLOWING SHEETS IN ACCORDANCE WITH RULE 61G15-23.004, F.A.C.

<table>
<thead>
<tr>
<th>Sheet Number</th>
<th>Sheet Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>E001</td>
<td>SIGNATURE SHEET &amp; SHEET INDEX</td>
</tr>
<tr>
<td>E002</td>
<td>SITE PLAN</td>
</tr>
<tr>
<td>E003</td>
<td>GENERAL NOTES</td>
</tr>
<tr>
<td>E004</td>
<td>ELECTRICAL NOTES</td>
</tr>
<tr>
<td>E005</td>
<td>ELECTRICAL DETAILS</td>
</tr>
<tr>
<td>E006</td>
<td>PANEL SCHEDULES</td>
</tr>
<tr>
<td>E0101</td>
<td>EXISTING SITE AND DEMOLITION</td>
</tr>
<tr>
<td>E200</td>
<td>PROPOSED ELECTRICAL SITE PLAN</td>
</tr>
<tr>
<td>E201</td>
<td>HANGAR J-4 POWER PLAN</td>
</tr>
<tr>
<td>E202</td>
<td>HANGAR J-5 POWER PLAN</td>
</tr>
<tr>
<td>E203</td>
<td>HANGAR J-7 POWER PLAN</td>
</tr>
<tr>
<td>E204</td>
<td>HANGAR J-8 POWER PLAN</td>
</tr>
<tr>
<td>E205</td>
<td>HANGAR EXCLUSION ZONE DETAIL</td>
</tr>
<tr>
<td>E206</td>
<td>MANHOLE AND DUCT BANK DETAILS</td>
</tr>
<tr>
<td>E401</td>
<td>HANGAR J-4 LIGHTING PLAN</td>
</tr>
<tr>
<td>E402</td>
<td>HANGAR J-5 LIGHTING PLAN</td>
</tr>
<tr>
<td>E403</td>
<td>HANGAR J-7 LIGHTING PLAN</td>
</tr>
<tr>
<td>E404</td>
<td>HANGAR J-8 LIGHTING PLAN</td>
</tr>
<tr>
<td>E405</td>
<td>EXTERIOR LIGHTING DETAILS</td>
</tr>
<tr>
<td>E501</td>
<td>HANGAR J-4 LIGHTNING PROTECTION</td>
</tr>
<tr>
<td>E502</td>
<td>HANGAR J-5 LIGHTNING PROTECTION</td>
</tr>
<tr>
<td>E503</td>
<td>HANGAR J-7 LIGHTNING PROTECTION</td>
</tr>
<tr>
<td>E504</td>
<td>HANGAR J-8 LIGHTNING PROTECTION</td>
</tr>
<tr>
<td>E505</td>
<td>LIGHTNING PROTECTION DETAILS</td>
</tr>
</tbody>
</table>
NOTES:
1. HANGAR J-6 AND J-8 ARE THE BASE BID ITEMS.
2. HANGAR J-7 IS A SEPARATE BID ITEM.
3. HANGAR J-9 IS A SEPARATE BID ITEM.
GENERAL NOTES:

1. PROVIDE ALL ELECTRICAL DISTRIBUTION AND MOTOR CONTROL EQUIPMENT AND ACCESSORIES REQUIRED TO EFFECT THE OPERATION AND MAINTENANCE OF ALL ELECTRICAL DISTRIBUTION, EQUIPMENT AND SYSTEMS SETFORTH:

2. PROVIDE MANIFOLDS FOR TURNS WHERE RESIDING ON THE DRAWINGS OR DESCRIBED IN THIS ITEM.

3. EQUIPMENT ALL ELECTRICAL DISTRIBUTION AND MOTOR CONTROL EQUIPMENT SHALL HAVE MANUFACTURERS SPECIFICATIONS IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE (NEC), FEDERAL, STATE AND LOCAL CODES.

4. PROVIDE MANUFACTURERS SPECIFICATIONS FOR THE OPERATION AND MAINTENANCE OF ALL EQUIPMENT.

5. INSTALLATION: PERMANENTLY AFFIXED WITH STAINLESS STEEL SHEET METAL SCREWS. RIVETS OR ATTACHMENTS USING ADHESIVES ARE NOT ACCEPTABLE.

6. PROVIDE PHENOLIC PLATE DENOTING INFORMATION IN ACCORDANCE TO NEC ART. 110.16.

7. INSTALL BUSING FULL HEIGHT THROUGHOUT PANEL TO BE AVAILABLE FOR INSTALLATION OF FUTURE PHASES OF WORK. WORK SHALL BE INSTALLED TO AVOID ANY DAMAGE TO STRUCTURAL MEMBERS.

8. PROVIDE A COMPLETE SYSTEM OF WIRING DEVICES PROPERLY WIRED, INCLUDING A SOLID ELECTRICAL WIRING.

9. INSTALL ALL ELECTRICAL DISTRIBUTION AND MOTOR CONTROL EQUIPMENT AND ACCESSORIES REQUIRED TO EFFECT THE OPERATION AND MAINTENANCE OF ALL ELECTRICAL DISTRIBUTION, EQUIPMENT AND SYSTEMS SETFORTH:

10. PROVIDE ALL CONDUITS AND OUTFLOORS TO BE SHIPPED TO FACTORY FOR REPAIR.

11. DISCONNECT SURGE PROTECTIVE DEVICES (SPD): HIGH POTENTIAL TESTING IS PROHIBITED ON SPD COMPONENTS. SPD TESTING OF COMPONENTS AFTER MANUFACTURING SHOULD BE PERFORMED IN THE FACTORY AND THE TEST REPORTS PROVIDED TO THE CONSTRUCTION COORDINATOR.

12. PROVIDE A BREAKER BOX PROTECTING THE PRIMARY BREAKER CONNECTIONS TO THE METER PANEL TO BE INSTALLED NEAR THE METER PANEL.

13. PROVIDE A COMPLETE SYSTEM OF WIRING DEVICES PROPERLY WIRED, INCLUDING A SOLID ELECTRICAL WIRING.

14. PROVIDE MANUFACTURERS SPECIFICATIONS FOR THE OPERATION AND MAINTENANCE OF ALL EQUIPMENT.

15. INSTALLATION: PERMANENTLY AFFIXED WITH STAINLESS STEEL SHEET METAL SCREWS. RIVETS OR ATTACHMENTS USING ADHESIVES ARE NOT ACCEPTABLE.

16. PROVIDE PHENOLIC PLATE DENOTING INFORMATION IN ACCORDANCE TO NEC ART. 110.16.

17. INSTALL BUSING FULL HEIGHT THROUGHOUT PANEL TO BE AVAILABLE FOR INSTALLATION OF FUTURE PHASES OF WORK. WORK SHALL BE INSTALLED TO AVOID ANY DAMAGE TO STRUCTURAL MEMBERS.

18. PROVIDE ALL ELECTRICAL DISTRIBUTION AND MOTOR CONTROL EQUIPMENT AND ACCESSORIES REQUIRED TO EFFECT THE OPERATION AND MAINTENANCE OF ALL ELECTRICAL DISTRIBUTION, EQUIPMENT AND SYSTEMS SETFORTH:

19. PROVIDE MANUFACTURERS SPECIFICATIONS FOR THE OPERATION AND MAINTENANCE OF ALL EQUIPMENT.

20. INSTALLATION: PERMANENTLY AFFIXED WITH STAINLESS STEEL SHEET METAL SCREWS. RIVETS OR ATTACHMENTS USING ADHESIVES ARE NOT ACCEPTABLE.

21. PROVIDE PHENOLIC PLATE DENOTING INFORMATION IN ACCORDANCE TO NEC ART. 110.16.

22. INSTALL BUSING FULL HEIGHT THROUGHOUT PANEL TO BE AVAILABLE FOR INSTALLATION OF FUTURE PHASES OF WORK. WORK SHALL BE INSTALLED TO AVOID ANY DAMAGE TO STRUCTURAL MEMBERS.

23. PROVIDE ALL CONDUITS AND OUTFLOORS TO BE SHIPPED TO FACTORY FOR REPAIR.

24. DISCONNECT SURGE PROTECTIVE DEVICES (SPD): HIGH POTENTIAL TESTING IS PROHIBITED ON SPD COMPONENTS. SPD TESTING OF COMPONENTS AFTER MANUFACTURING SHOULD BE PERFORMED IN THE FACTORY AND THE TEST REPORTS PROVIDED TO THE CONSTRUCTION COORDINATOR.

25. PROVIDE A BREAKER BOX PROTECTING THE PRIMARY BREAKER CONNECTIONS TO THE METER PANEL TO BE INSTALLED NEAR THE METER PANEL.

26. PROVIDE A COMPLETE SYSTEM OF WIRING DEVICES PROPERLY WIRED, INCLUDING A SOLID ELECTRICAL WIRING.

27. INSTALLATION: PERMANENTLY AFFIXED WITH STAINLESS STEEL SHEET METAL SCREWS. RIVETS OR ATTACHMENTS USING ADHESIVES ARE NOT ACCEPTABLE.

28. PROVIDE PHENOLIC PLATE DENOTING INFORMATION IN ACCORDANCE TO NEC ART. 110.16.

29. INSTALL BUSING FULL HEIGHT THROUGHOUT PANEL TO BE AVAILABLE FOR INSTALLATION OF FUTURE PHASES OF WORK. WORK SHALL BE INSTALLED TO AVOID ANY DAMAGE TO STRUCTURAL MEMBERS.

30. PROVIDE ALL ELECTRICAL DISTRIBUTION AND MOTOR CONTROL EQUIPMENT AND ACCESSORIES REQUIRED TO EFFECT THE OPERATION AND MAINTENANCE OF ALL ELECTRICAL DISTRIBUTION, EQUIPMENT AND SYSTEMS SETFORTH:

31. PROVIDE MANUFACTURERS SPECIFICATIONS FOR THE OPERATION AND MAINTENANCE OF ALL EQUIPMENT.

32. INSTALLATION: PERMANENTLY AFFIXED WITH STAINLESS STEEL SHEET METAL SCREWS. RIVETS OR ATTACHMENTS USING ADHESIVES ARE NOT ACCEPTABLE.

33. PROVIDE PHENOLIC PLATE DENOTING INFORMATION IN ACCORDANCE TO NEC ART. 110.16.

34. INSTALL BUSING FULL HEIGHT THROUGHOUT PANEL TO BE AVAILABLE FOR INSTALLATION OF FUTURE PHASES OF WORK. WORK SHALL BE INSTALLED TO AVOID ANY DAMAGE TO STRUCTURAL MEMBERS.
**ELECTRICAL LEGEND:**

- LED INTERIOR WALL PACK
- LED INTERIOR LIGHT
- LED AREA EXTERIOR LIGHT
- WALL OUTLET BOX AND SINGLE POLE SWITCH 48" MOUNTING HEIGHT (MINIMUM)
- METER BASE
- DUPLEX RECEPTACLE, GFCI - 20 AMP, 120 VOLT, 3 WIRE, 48" MOUNTING HEIGHT (MINIMUM)
- BORES LIGHTED LEE FIXTURE OR APPROVED EQUIVALENT
- HANGAR DOOR SECTOR
- INTERIOR (NEMA 1) DISTRIBUTION PANEL
- WIRING IN CONSULT

**NOTES:**

1. CONTRACTOR SHALL COORDINATE WITH FPL FOR CONNECTION OF SERVICE CONDUCTORS TO UTILITY TRANSFORMER. SEE SHEET E004 FOR DETAILS.
2. CONTRACTOR SHALL INSTALL METER BASES PER FPL REQUIREMENTS. SEE SHEET E004 FOR DETAILS.
3. CLASSIFICATION OF LOCATIONS:
   A. B8,000 FLOOR LEVEL: ANY PIT OR DEPRESSION BELOW THE LEVEL OF THE HANGAR FLOOR SHALL BE CLASSIFIED AS A CLASS I, DIVISION 1 OR ZONE 1 LOCATION THAT SHALL EXTEND UP TO A LEVEL OF 18" ABOVE THE FLOOR.
   B. AREAS NOT CUT OFF OR VENTILATED: THE ENTIRE AREA OF THE HANGAR, INCLUDING ANY ADJOINING OR COMMUNICATING AREAS, SHALL BE CLASSIFIED AS A CLASS I, DIVISION 2 OR ZONE 2 LOCATION THAT SHALL EXTEND UP TO A LEVEL OF 18" ABOVE THE FLOOR.
   C. VICINITY OF THE AIRCRAFT: THE AREA WITHIN 5 FEET HORIZONTALLY OR VERTICALLY FROM AIRCRAFT POWER PLANTS OR AIRCRAFT FUEL TANKS SHALL BE CLASSIFIED AS A CLASS I, DIVISION 2 OR ZONE 2 LOCATION THAT SHALL EXTEND UP TO A LEVEL OF 18" ABOVE THE UPPER SURFACE OF WINGS AND OF ENGINE ENCLOSURES.
   D. INGROUND CONDUCTORS SHALL CONTAIN A COPPER GROUNDING CONDUCTOR ROOTED IN ACCORDANCE WITH NEC ART. 250.
   E. CONTRACTOR SHALL COORDINATE WITH THE HANGAR MANUFACTURER FOR THE EXACT LOCATION OF THE DOORS IN ORDER TO ASCERTAIN THE FINAL LOCATION OF DOOR MOTORS, EXIT LIGHTS, RECEPTACLES AND ALL EQUIPMENTS.
   F. MAINTAIN NEC SAFE WORKING CLEARANCES IN ACCORDANCE WITH NEC ART. 110.26.
   G. REFER TO ARCHITECTURAL DRAWING FOR LOCATIONS OF FIRE WALLS. CONTRACTOR SHALL MAINTAIN INTEGRITY OF ALL FIRE WALLS.
   H. CONTRACTOR SHALL COORDINATE WITH THE HANGER MANUFACTURER FOR LOCATIONS AND NUMBER OF LIGHTING FIXTURES.

**LIGHTING FIXTURE SCHEDULE**

<table>
<thead>
<tr>
<th>Manufacturer</th>
<th>Catalog Number</th>
<th>Lamps</th>
<th>Remarks</th>
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<tr>
<td>MAGNARAY</td>
<td>WLED18WP</td>
<td>LED STRIP</td>
<td>LED STRIP ADAPTOR</td>
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<tr>
<td>MAGNARAY</td>
<td>WLED48</td>
<td>192 LED</td>
<td>WALL MOUNT</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>USE POLE MOUNT ADAPTOR</td>
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</tbody>
</table>

**AIRCRAFT GROUNDING RECEPTACLE, CADWELD B165R OR APPROVED EQUIVALENT**

**PHOTOELECTRIC CELL**

**MANUAL MOTOR STARTER, 587TV, 3 POLE, 1 PHASE. IN A NEMA 1 ENCLOSURE LOCKABLE AND INDICATING LIGHT OR APPROVED EQUIVALENT**

**HANGAR COLUMN LOCATION. (FINAL NUMBER AND LOCATION PER HANGAR MANUFACTURER DESIGNS)**

**EXOTHERMIC CONNECTION**

**EXIT FIXTURE SCHEDULE. LED LIGHTING. SCOPULITE VX-HS 14 OR APPROVED EQUIVALENT.**
NOTES:

1. ALL WORK SHALL BE IN ACCORDANCE WITH NATIONAL ELECTRICAL CODE, NFPA 70, STANDARD ON AIRCRAFT HANGARS, NFPA 409, LATEST EDITION, AND MEET ALL APPLICABLE FEDERAL, STATE AND LOCAL CODES. ALL CONDUCTORS SHALL BE COPPER. SIZES OF WIRES & THWN-2 INSULATION. THE CONTRACTOR SHALL PROVIDE AN ELECTRICAL SINGLE LINE DIAGRAM, WITH CONDUIT AND WIRING SIZES DENOTING AD SIZES & RATINGS OF ELECTRICAL EQUIPMENT.

2. ALL WIRES SHALL BE IN CONDUIT. USE PVC SCHEDULE 40 FOR BELOW GRADE APPLICATIONS NOT BELOW THE HANGAR SLAB. USE EMT CONDUIT FOR INTERIOR SURFACE MOUNTED LOCATIONS ABOVE 42". USE RIGID GALVANIZED STEEL CONDUIT FOR ALL WORK BELOW HANGAR SLAB, THROUGH SLAB, AND UP TO 42" ABOVE SLAB AND FOR 90° STUBUPS FROM PVC.

3. MAIN SERVICE DISCONNECT SHALL BE A 400A, 120/240V 'SHUNT TRIP' TYPE (TYPICAL ALL HANGARS).

4. VERIFY AVAILABLE SHORT CIRCUIT CURRENT AVAILABILITY WITH ELECTRICAL UTILITY. PROVIDE ELECTRICAL EQUIPMENT RATED TO CONFORM WITH NEC ART 110-9 AND 110-10.

5. ALL WORK, MATERIALS, ETC. SHOWN ON PLANS IS BY ELECTRICAL CONTRACTOR UNLESS NOTED OTHERWISE.

6. ALL INSTALLATIONS SHALL COMPLY WITH NEC ART. 513.3. IT IS RECOMMENDED THAT THE CONTRACTOR ROUTE THE CONDUIT ALONG THE CEILING RATHER THAN UNDERGROUND. FLEXIBLE METAL CONDUIT SHALL USED FOR CONNECTION TO OUTDOOR LIGHTS AND THE HANGAR DOOR MOTOR. IF CONDUITS ARE INSTALLED UNDER BUILDING SLAB, CONDUIT SEAL-OFFS SHALL BE PROVIDED AND INSTALLED.

7. ELECTRICAL DESIGN IS IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE, 2017 EDITION.
# House Panel Schedule

**NOTE:**

Panels shall be coordinated with Buildings J-4, J-5, J-7, and J-8.

### House Panel

<table>
<thead>
<tr>
<th>Circuit Breaker Type</th>
<th>Surface Mtd.</th>
<th>TBD</th>
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</thead>
<tbody>
<tr>
<td>120/240 Volts 1-Phase Wire 200 Amp Main Breaker</td>
<td>TBD</td>
<td></td>
</tr>
<tr>
<td>Circuit Breaker Type</td>
<td>TBD</td>
<td></td>
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### Tenant Panel (Typical)

<table>
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<tr>
<th>Circuit Breaker Type</th>
<th>Surface Mtd.</th>
<th>TBD</th>
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</thead>
<tbody>
<tr>
<td>120/240 Volts 1-Phase Wire 60 Amp Main Circuit Breaker</td>
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<td></td>
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<tr>
<td>Circuit Breaker Type</td>
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</table>

### Tenant Panel Schedule

**NOTE:**

Typical of all hangar panels

### Service Load Calculations

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<th>MAG</th>
<th>TENANT LOAD</th>
<th>SERVICE LOAD</th>
<th>TOTAL LOAD</th>
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<tbody>
<tr>
<td>TBD</td>
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<td>TBD</td>
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</tbody>
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**Drawing Name:**

**Date:** July 24, 2017

**Certification:**

AVCON PROJECT NO. 2017.262.01

**By:**

AVCON, INC.

ENGINEERS & PLANNERS

5555 EAST MICHIGAN STREET - ORLANDO, FL 32822

OFFICE: (407) 599-1122

www.avconinc.com

CORPORATE CERTIFICATE OF AUTHORIZATION NUMBER: 5057

GENERAL APPOINTMENT

AVCON, INC.

5550 WEST IDLEWILD AVE. SUITE 102

TAMPA, FLORIDA 33634

(813) 330-2701

CERTIFICATE OF AUTHORIZATION NO.: 30862
1. INSTALLATION OF NEW SERVICE LATERALS FROM NEW/EXISTING FPL POLE TO EACH PROPOSED HANGAR SHALL BE BID ON THE FOLLOWING SCHEDULE.
   A. BASE BID INCLUDES THE SERVICE NEEDED FOR HANGARS J-4 AND J-5.
   B. AN ALTERNATE BID INCLUDES THE SERVICE NEEDED FOR J-7.
   C. AN ALTERNATE BID INCLUDES THE SERVICE NEEDED FOR J-8.
   IF HANGARS J-7 AND J-8 ARE BID TOGETHER, THEN ITEMS 'B' AND 'C' SHALL BE BID AS ONLY ONE SERVICE.

2. UNDERGROUND CONDUITS AND BORES ARE SHOWN GRAPHICALLY. CONTRACTOR SHALL MAKE A SURVEY OF ALL EXISTING CONDITIONS BEFORE ANY EXCAVATION OR BORING OPERATIONS BEGIN. COORDINATE EXACT ROUTING WITH FPL AND SARASOTA AIRPORT.

3. ALL PRIMARY SERVICE CONDUITS AND FITTINGS, TRANSFORMER, TRANSFORMER PAD, AND MANHOLES WILL BE SUPPLIED BY FPL. FPL TO INSTALL ALL PRIMARY CONDUCTORS AND SECONDARY CONDUCTORS BETWEEN POWER POLE AND SECONDARY MANHOLE LOCATED AT HANGAR J-4.

4. ALL SECONDARY CONDUITS, FITTINGS, ETC., SHALL BE SUPPLIED BY THE CONTRACTOR. CONTRACTOR TO INSTALL SECONDARY CONDUCTORS FROM PROPOSED TRANSFORMER TO HANGARS J-7 AND J-8. CONTRACTOR TO INSTALL SECONDARY CONDUCTORS FROM SECONDARY MANHOLE LOCATED AT HANGAR J-4 TO HANGARS J-4 AND J-5. CONTRACTOR TO INSTALL DIRECTIONAL BORES UNDER TARMAC AND PROTECT FPL TO TERMINATE FINAL CONNECTIONS.

5. CONTRACTOR SHALL INSTALL ALL MANHOLES, DIRECTIONAL BORES, CONDUITS, CONDUIT FITTINGS AND SWEEPS, TRANSFORMER PAD, AND ALL OTHER ITEMS INCIDENT TO THE INSTALLATION OF A COMPLETE SERVICE. CONTRACTOR SHALL INSTALL A 500 LB. RATED PULL STRING IN ALL EMPTY SERVICE RACEWAYS.

6. EXISTING FPL TRANSFORMER LOCATED ON THE SOUTH END OF THE EXISTING TEMPORARY HANGARS (PROPOSED HANGAR J-5) SHALL BE REMOVED BY FPL. IF ANY EXISTING CONDITIONS DICTATE THAT THE TRANSFORMER VAULT SHALL REMAIN, AN APPROPRIATE COVER WILL BE PROVIDED AND INSTALLED BY FPL. COORDINATE ALL ACTIVITIES WITH THE FPL POINT OF CONTACT.

7. FPL POINT OF CONTACT:
   SHAYNA WHITE
   1253 12th AVE. E
   PALMETTO, FLORIDA 34221
   941-723-4424

8. ALL SERVICE LATERAL WORK SHALL CONFORM WITH NFPA 70, FPL AND SARASOTA AIRPORT STANDARDS.
NOTES:

1. SEE SHEET E305 FOR AIRCRAFT GROUNDING CONNECTION DETAIL.

2. ALL RECEPTACLES SHALL BE MOUNTED 48" (MINIMUM) ABOVE FLOOR LEVEL.

3. SEE SHEET E304 FOR ELECTRICAL SYMBOLS AND HEIGHTS.

4. SEE SHEET E306 FOR PANEL SCHEDULES.

5. COORDINATE THE LOCATION OF CONTROLLERS FOR HANGAR DOOR OPENERS WITH SARASOTA AIRPORT.
HANGAR J-5 POWER PLAN

NOTES:
1. SEE SHEET 0005 FOR AIRCRAFT GROUNDING CONNECTION DETAIL.
2. ALL RECEPTACLES SHALL BE MOUNTED 48" (MINIMUM) ABOVE FLOOR LEVEL.
3. SEE SHEET 0004 FOR ELECTRICAL SYMBOLS AND HEIGHTS.
4. SEE SHEET 0006 FOR PANEL SCHEDULES.
5. COORDINATE THE LOCATION OF CONTROLLERS FOR HANGAR DOOR OPENERS WITH SARASOTA AIRPORT.

SEE NOTE 5
SEE NOTE 2
MATCHLINE - THIS SHEET

HANGAR J-8 POWER PLAN

NOTES:

1. SEE SHEET E005 FOR AIRCRAFT GROUNDING CONNECTION DETAIL.
2. ALL RECEPTACLES SHALL BE MOUNTED 48" (MINIMUM) ABOVE FLOOR LEVEL.
3. SEE SHEET E004 FOR ELECTRICAL SYMBOLS AND HEIGHTS.
4. SEE SHEET E006 FOR PANEL SCHEDULES.
5. COORDINATE THE LOCATION OF CONTROLLERS FOR HANGAR DOOR OPENERS WITH SARASOTA AIRPORT.

MATCHLINE - THIS SHEET
NOTES:
1. CLASS 1 DIVISION 2 AREA. ANY ELECTRICAL DEVICES OR EQUIPMENT LOCATED IN THIS AREA MUST CONFORM WITH NEC ARTICLE 513 AND LOCAL CODES.

TYPICAL HANGAR EXCLUSION ZONES
NOTES:

1. SUPPLY A 24/7 CIRCUIT TO EGRESS LIGHTING FIXTURES WITH BATTERY BACK-UP (TYPICAL).
2. INTERIOR LIGHTING CONTROL FOR EACH HANGAR SHALL BE A "LIGHTED" TYPE SWITCH.
3. INTERIOR LIGHTING FIXTURES SHALL BE MOUNTED AT 8' (MINIMUM).
4. EXTERIOR LIGHTING CONTROL WILL BE BY LIGHTING CONTACTOR AND PHOTOCELL.
5. EXTERIOR LIGHTING FIXTURE ON THE NORTH AND SOUTH ENDS ARE MOUNTED ABOVE THE HANGAR DESIGNATION SIGNS.
NOTES:

1. SUPPLY A 24/7 CIRCUIT TO EGRESS LIGHTING FIXTURES WITH BATTERY BACK-UP (TYPICAL).
2. INTERIOR LIGHTING CONTROL FOR EACH HANGAR SHALL BE A “LIGHTED” TYPE SWITCH.
3. INTERIOR LIGHTING FIXTURES SHALL BE MOUNTED AT 8’ (MINIMUM).
4. EXTERIOR LIGHTING CONTROL WILL BE BY LIGHTING CONTACTOR AND PHOTOCELL.
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1. SUPPLY A 24/7 CIRCUIT TO EGRESS LIGHTING FIXTURES WITH BATTERY BACK-UP (TYPICAL).
2. INTERIOR LIGHTING CONTROL FOR EACH HANGAR SHALL BE A "LIGHTED" TYPE SWITCH.
3. INTERIOR LIGHTING FIXTURES SHALL BE MOUNTED AT 8' (MINIMUM).
4. EXTERIOR LIGHTING CONTROL WILL BE BY LIGHTING CONTROLLER AND PHOTOCELL.
5. EXTERIOR LIGHTING FIXTURE ON THE NORTH AND SOUTH ENDS ARE MOUNTED ABOVE THE HANGAR DESIGNATION SIGNS.
NOTES:

1. SUPPLY A 24/7 CIRCUIT TO EGRESS LIGHTING FIXTURES WITH BATTERY BACK-UP (TYPICAL).

2. INTERIOR LIGHTING CONTROL FOR EACH HANGAR SHALL BE A "LIGHTED" TYPE SWITCH.

3. INTERIOR LIGHTING FIXTURES SHALL BE MOUNTED AT 8' (MINIMUM).

4. EXTERIOR LIGHTING CONTROL WILL BE BY LIGHTING CONTACTOR AND PHOTOCELL.

5. EXTERIOR LIGHTING FIXTURE ON THE NORTH AND SOUTH ENDS ARE MOUNTED ABOVE THE HANGAR DESIGNATION SIGNS.
HANGAR J-4 LIGHTNING PROTECTION

NOTES:

1. SEE SHEET 0005 FOR AIRCRAFT GROUNDING CONNECTION DETAIL.
2. HANGAR DOOR OPENER SHALL BE EQUIPPED WITH ALTERNATIVE ELECTRICAL CONNECTION MEANS. (TYPICAL OF ALL)
3. SEE SHEET 0004 FOR ELECTRICAL SYMBOLS AND HEIGHTS.
4. SEE SHEET 0006 FOR PANEL SCHEDULES.
5. CONTRACTOR SHALL SUBMIT LPS SHOP DRAWING FOR APPROVAL.
6. BOND UPS DOWN CONDUCTOR TO STEEL COLUMN AT TOP AND BOTTOM.

BID DOCUMENTS
NOTES:

1. SEE SHEET E005 FOR AIRCRAFT GROUNDING CONNECTION DETAIL.
2. HANGAR DOOR OPENER SHALL BE EQUIPPED WITH ALTERNATIVE ELECTRICAL CONNECTION MEANS (TYPICAL OF ALL).
3. SEE SHEET E004 FOR ELECTRICAL SYMBOLS AND HEIGHTS.
4. SEE SHEET E006 FOR PANEL SCHEDULES.
5. CONTRACTOR SHALL SUBMIT LPS SHOP DRAWING FOR APPROVAL.
6. BOND LPS DOWN CONDUCTOR TO STEEL COLUMN AT TOP AND BOTTOM.
NOTES:

1. SEE SHEET E005 FOR AIRCRAFT GROUNDING CONNECTION DETAIL.
2. HANGAR DOOR OPENER SHALL BE EQUIPPED WITH ALTERNATIVE ELECTRICAL CONNECTION MEANS. (TYPICAL OF ALL)
3. SEE SHEET E004 FOR ELECTRICAL SYMBOLS AND HEIGHTS.
4. SEE SHEET E006 FOR PANEL SCHEDULES.
5. CONTRACTOR SHALL SUBMIT LPS SHOP DRAWING FOR APPROVAL.
6. BOND LPS DOWN CONDUCTOR TO STEEL COLUMN AT TOP AND BOTTOM.
NOTES:
1. SEE SHEET E005 FOR AIRCRAFT GROUNDING CONNECTION DETAIL.
2. HANGAR DOOR OPENER SHALL BE EQUIPPED WITH ALTERNATIVE ELECTRICAL CONNECTION MEANS (TYPICAL OF ALL).
3. SEE SHEET E004 FOR ELECTRICAL SYMBOLS AND HEIGHTS.
4. SEE SHEET E006 FOR PANEL SCHEDULES.
5. CONTRACTOR SHALL SUBMIT LPS SHOP DRAWING FOR APPROVAL.
6. BOND UPS DOWN CONDUCTOR TO STEEL COLUMN AT TOP AND BOTTOM.
LIGHTNING PROTECTION GENERAL NOTES

1. The lightning protection system shall be in accordance with the requirements of the National Electrical Code, National Fire Protection Association NFPA 70, and the American National Standards Institute ANSI C2-2015 in accordance with the drawing notes.
2. The lightning protection system shall be designed and installed by a qualified person.
3. The lightning protection system shall be inspected and tested by a qualified person.
4. The lightning protection system shall be maintained in a safe and serviceable condition.

ELECTRICAL KEY NOTES

1. Ground Rod Installation Detail
2. Ground Rod Details for Above Box
3. Grounding Conductor
4. Grounding Conductor Details
5. Adhesive Air Terminal Detail
6. Bonding Plate Detail

MATERIAL LIST

1. Ground Rod
2. Ground Clamp
3. Grounding Conductor
4. Polymer Concrete Fiberglass Reinforced Box
5. Cover for Above Box
6. Gravel or Crushed Stone

GROUND ROD INSTALLATION DETAIL

COLUMN GROUNDING DETAIL

LIGHTNING PROTECTION SYMBOL LEGEND

T-HANGAR REPLACEMENT

LIGHTNING PROTECTION DETAILS

AVCON PROJECT NO. 2017.262.01

REVISIONS

LIGHTNING PROTECTION DETAILS

AVCON INC.

Project Name:

T-HANGAR REPLACEMENT

E505

JULY 5, 2017

NONE