

SHEET INDEX

GENERAL

- GI001 COVER
- GI002 GENERAL NOTES, SYMBOLS AND ABBREVIATIONS
- GI003 HAUL ROUTE / SITE MAP

ARCHITECTURAL

- AS101 ARCHITECTURAL SITE PLAN
- AE101 TYP SUN SHADE LAYOUT - 67 DEGREE NORTH
- AE102 TYP SUN SHADE LAYOUT - 67 DEGREE SOUTH
- AE103 TYP SUN SHADE LAYOUT - 90 DEGREE

ELECTRICAL

- ES101 ELECTRICAL SITE PLAN
- EL101 ELECTRICAL FLOOR PLAN - LIGHTING - 67 DEGREE NORTH
- EL102 ELECTRICAL FLOOR PLAN - LIGHTING - 67 DEGREE SOUTH
- EL103 ELECTRICAL FLOOR PLAN - LIGHTING - 90 DEGREE AND LIGHTING FIXTURE SCHEDULE
- EP101 ELECTRICAL FLOOR PLAN - POWER AND COMMUNICATION - 67 DEGREE NORTH
- EP102 ELECTRICAL FLOOR PLAN - POWER AND COMMUNICATION - 67 DEGREE SOUTH
- EP103 ELECTRICAL FLOOR PLAN - POWER AND COMMUNICATION - 90 DEGREE
- EP104 ELECTRICAL FLOOR PLAN - LIGHTNING PROTECTION AND GROUNDING - 67 DEGREE NORTH
- EP105 ELECTRICAL FLOOR PLAN - LIGHTNING PROTECTION AND GROUNDING - 67 DEGREE SOUTH
- EP106 ELECTRICAL FLOOR PLAN - LIGHTNING PROTECTION AND GROUNDING - 90 DEGREE
- EP501 ELECTRICAL DETAILS
- EP601 ELECTRICAL ONE LINE DIAGRAMS



CONTRACT# FA667520F0008
SOLICITATION# FA667520R0008

NAS Fort Worth JRB
F-35 SUNSHADES, LIGHTING,
AND LIGHTNING PROTECTION

Air Force Reserve
Command Department



PROJECT NO. 092-10066-006
APRIL 9, 2021
CORRECTED FINAL CUI

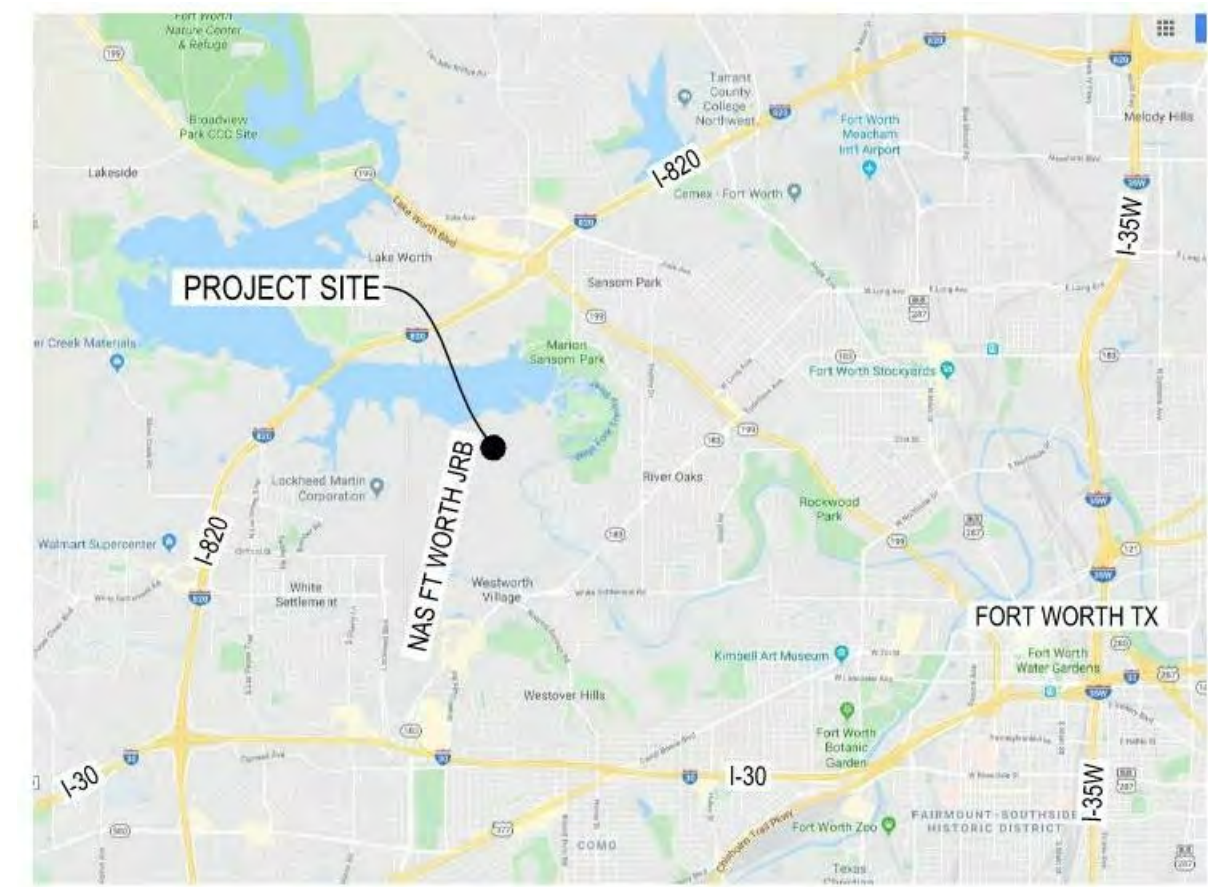


PLANNING
ARCHITECTURE
ENGINEERING
INTERIORS

EST. 1915

ABU DHABI
ATLANTA
AUSTIN
CHICAGO
COLLEGE STATION
CORPUS CHRISTI
DALLAS
FLINT
FORT WORTH
HOUSTON
LAN - MONTGOMERY COUNTY
LANSING
LAREDO
LAS VEGAS
LOS ANGELES
MIAMI
MIDWEST
MILPITAS
MINNEAPOLIS
NORMAN
OMAHA
ORANGE
SACRAMENTO
SAN ANTONIO
SAN MARCOS
TAMPA
WACO
WASHINGTON, DC
WEST PALM BEACH



[illegible]

DESIGNED BY: KS	DRAWN BY: KS	SOLICITATION NO.: FA667520R008	ISSUE DATE: APRIL 9, 2021
	CHECKED BY: MS	CONTRACT NO.: FA667520F0008	
	SUBMITTED BY: LAD		
	SIZE: ANSI D		

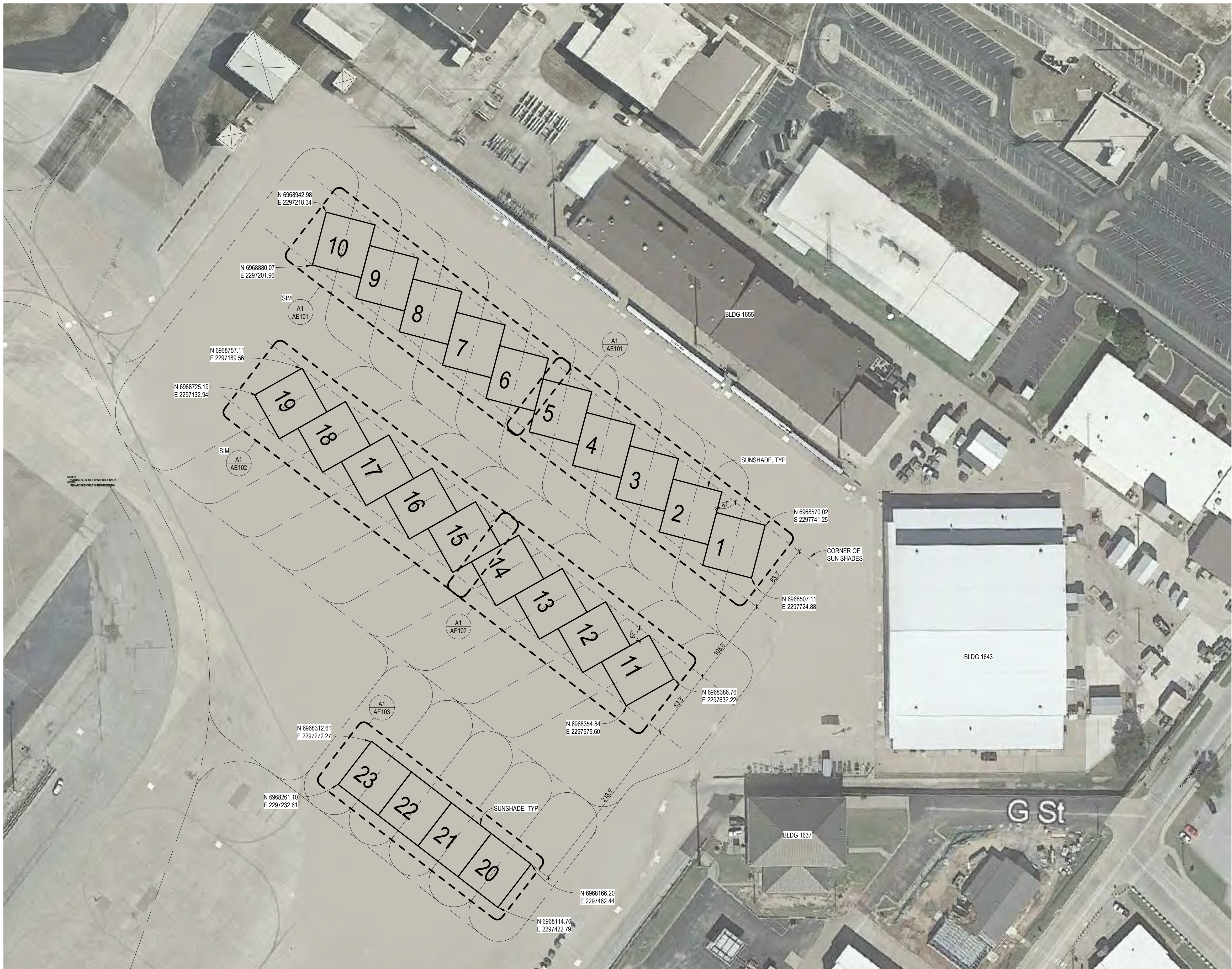
Air Force Reserve Command Department
301 ST CONF / LGC
1776 CARLSWELL AVE.
NAS, IRB FT WORTH TX

NAVAL AIR STATION JRB FORT WORTH, TX.
F-35 SUNSHADES, LIGHTING, AND LIGHTNING PROTECTION

HAUL ROUTE / SITE MAP

SHEET ID
GI003





A1 **ARCHITECTURAL SITE PLAN**
SCALE: 1" = 60'-0"

GENERAL SITE PLAN NOTES

1. SUN SHADES SHOWN ARE NEW CONSTRUCTION.
2. SUN SHADES REFERENCED IN THE DRAWINGS INCLUDE ALL SUNSHADE STRUCTURES AND CORRESPONDING STRUCTURAL MEMBERS TO BE A COMPLETE AND USABLE SYSTEM.

[illegible]

DESIGNED BY: KS	ISSUE DATE: APRIL 9, 2021
DRAWN BY: KS	SOLICITATION NO.: FA687520R0008
CHECKED BY: MS	CONTRACT NO.: FA687520F0008
SUBMITTED BY: LAD	
SIZE: ANSI D	

Air Force Reserve Command Department
301 ST CONF / LOC
1776 CARLSWELL AVE.

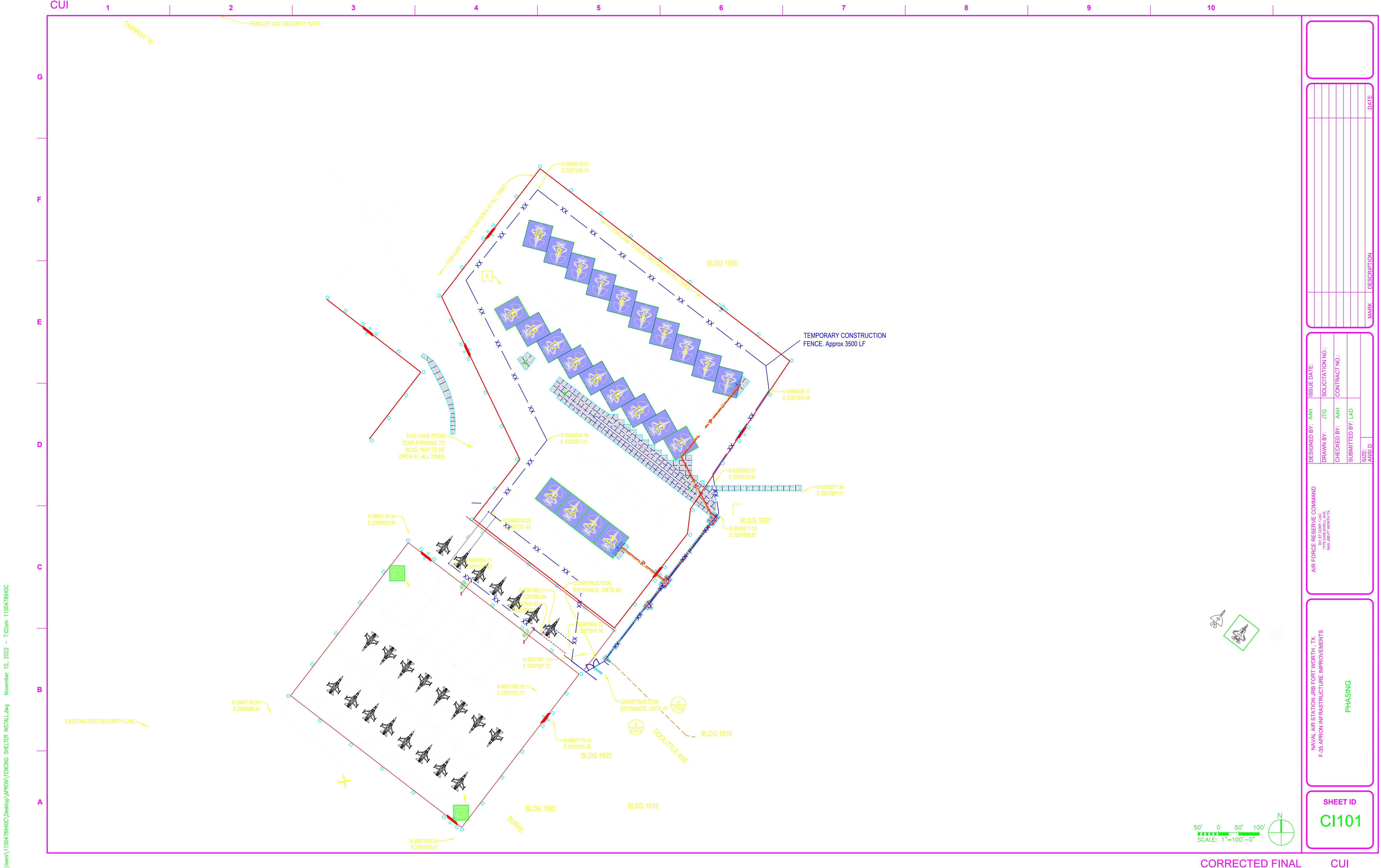
NAVAL AIR STATION JRB FORT WORTH, TX.
F-35 SUNSHADES, LIGHTING, AND LIGHTNING PROTECTION

ARCHITECTURAL SITE PLAN

SHEET ID
AS101



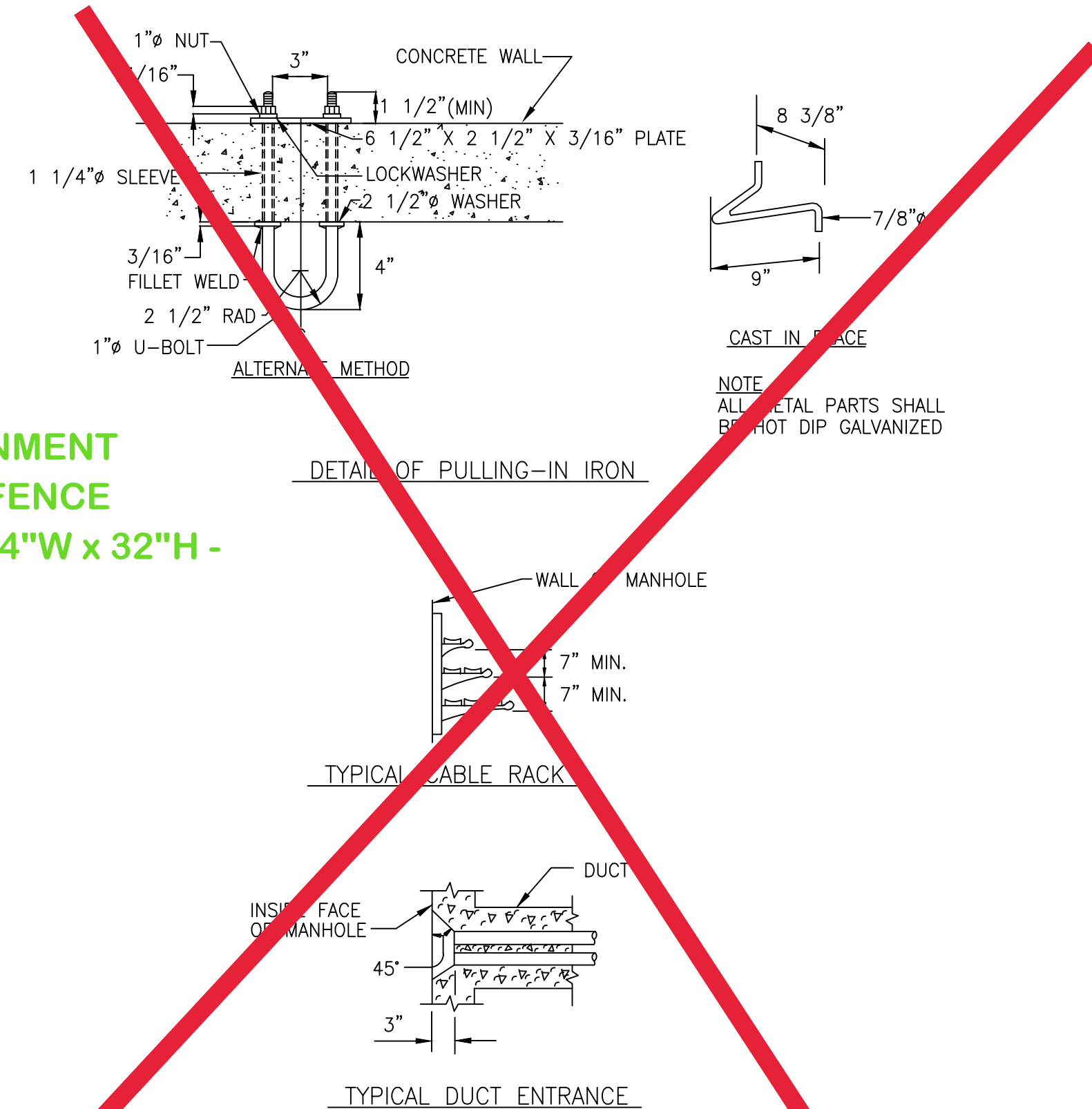
C:\Users\1100478940\Desktop\APRON FENCING SHELTER INSTALL.dwg November 10, 2022 - 7:02am 1100478940





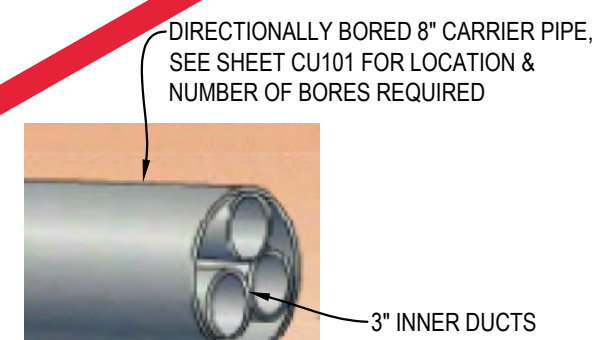
N.T.S.

N.T.S.



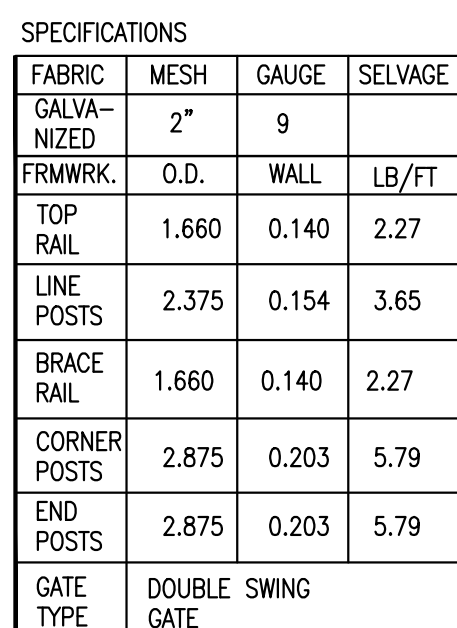
NTS

NTS



N.T.S.

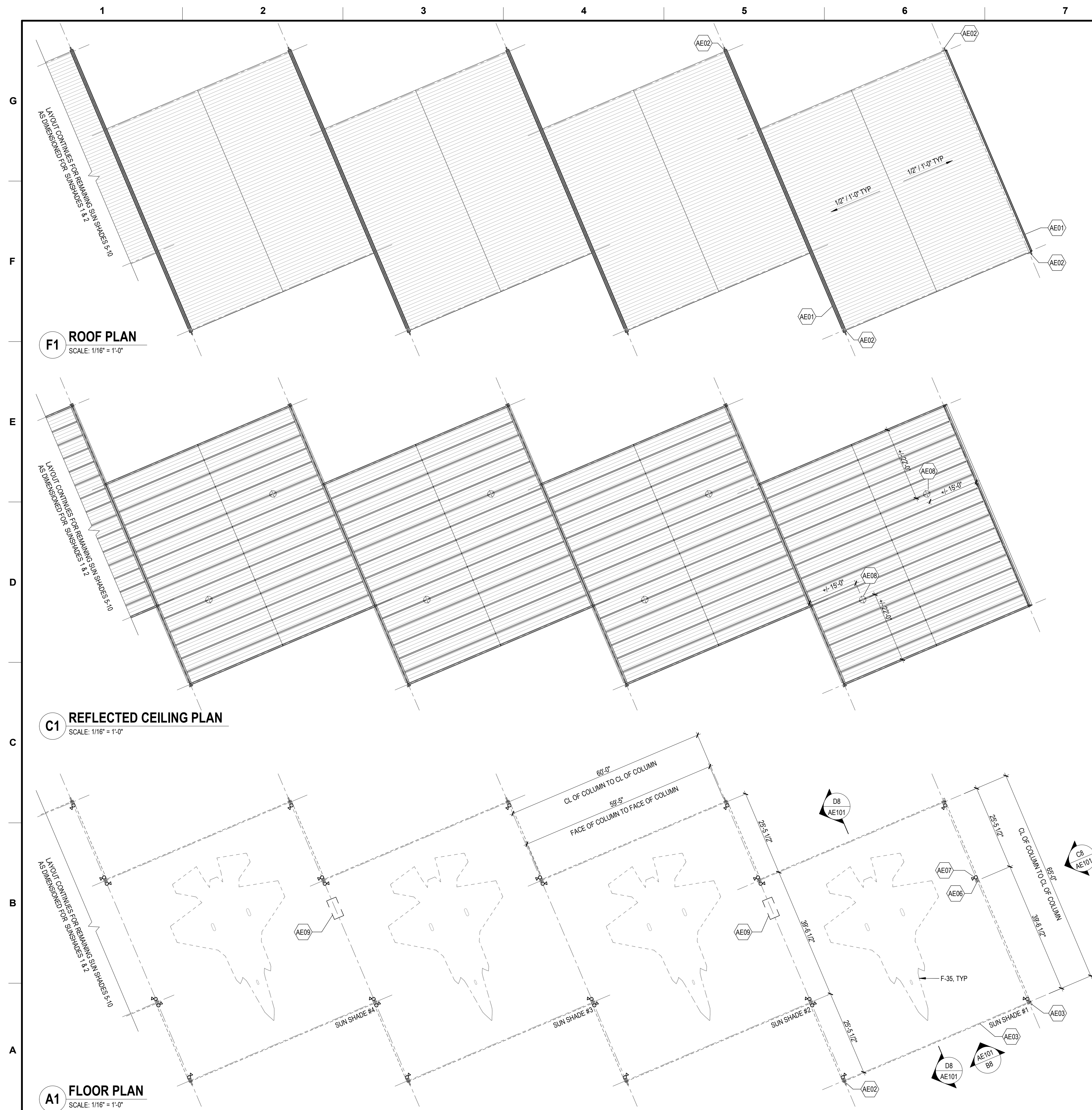
N.T.S.



4

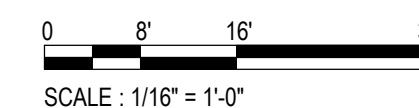
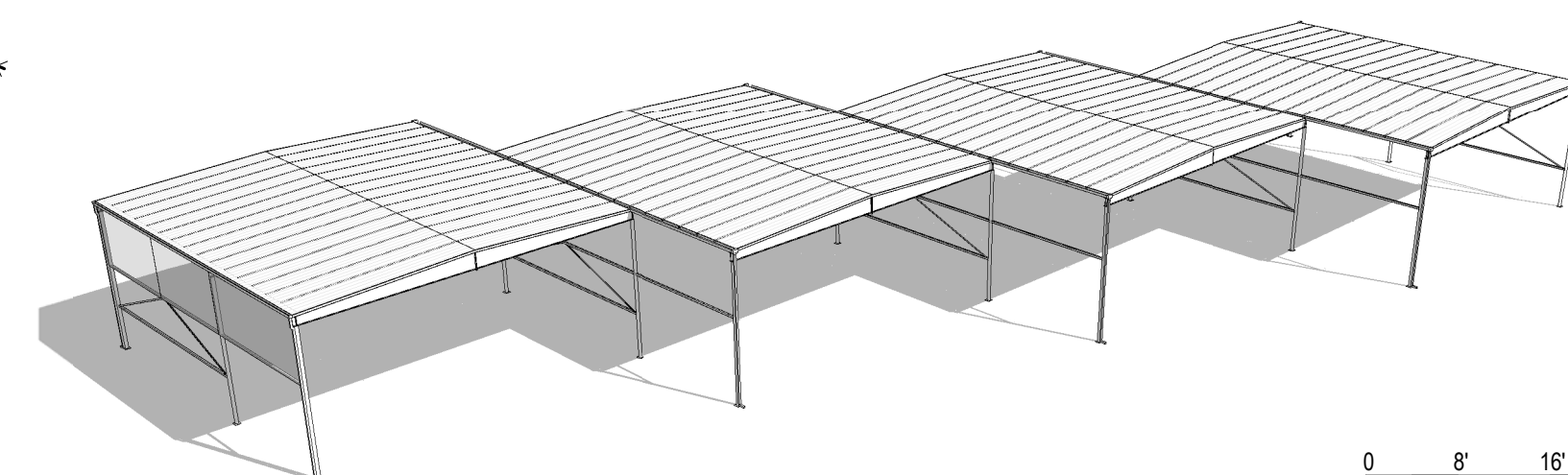
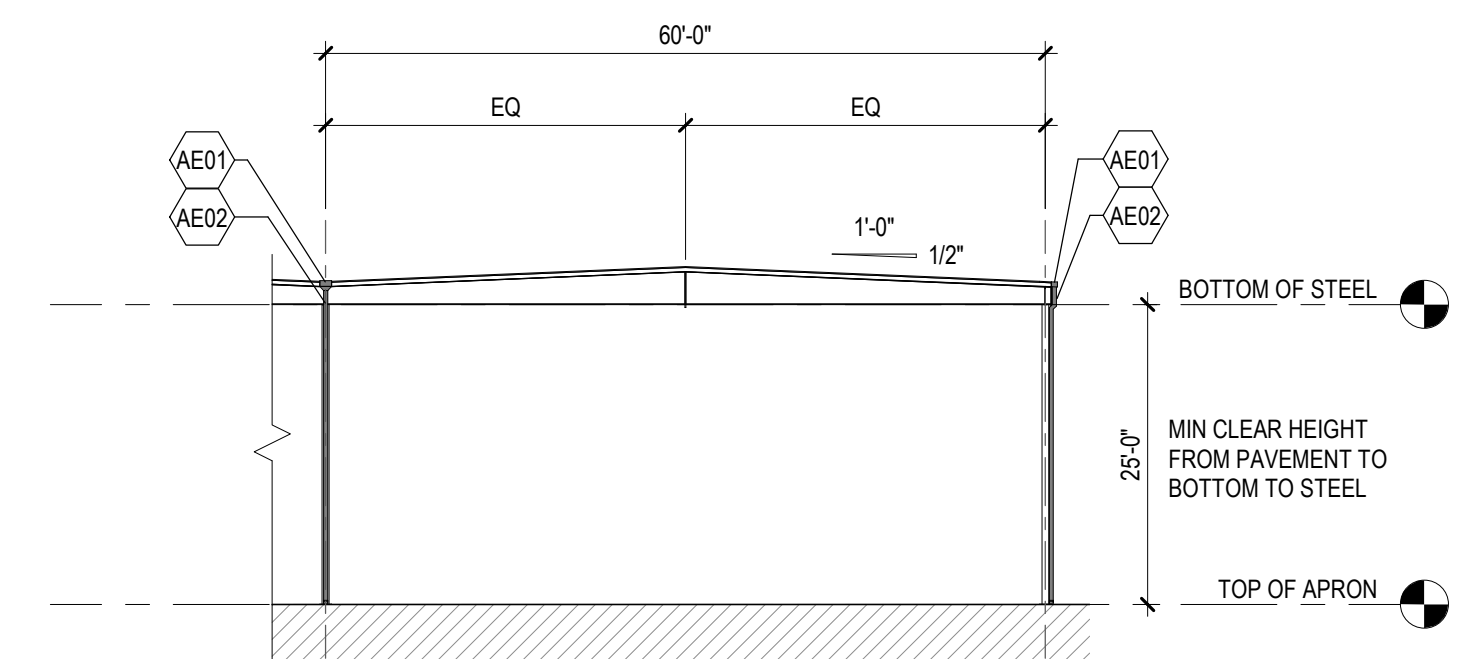
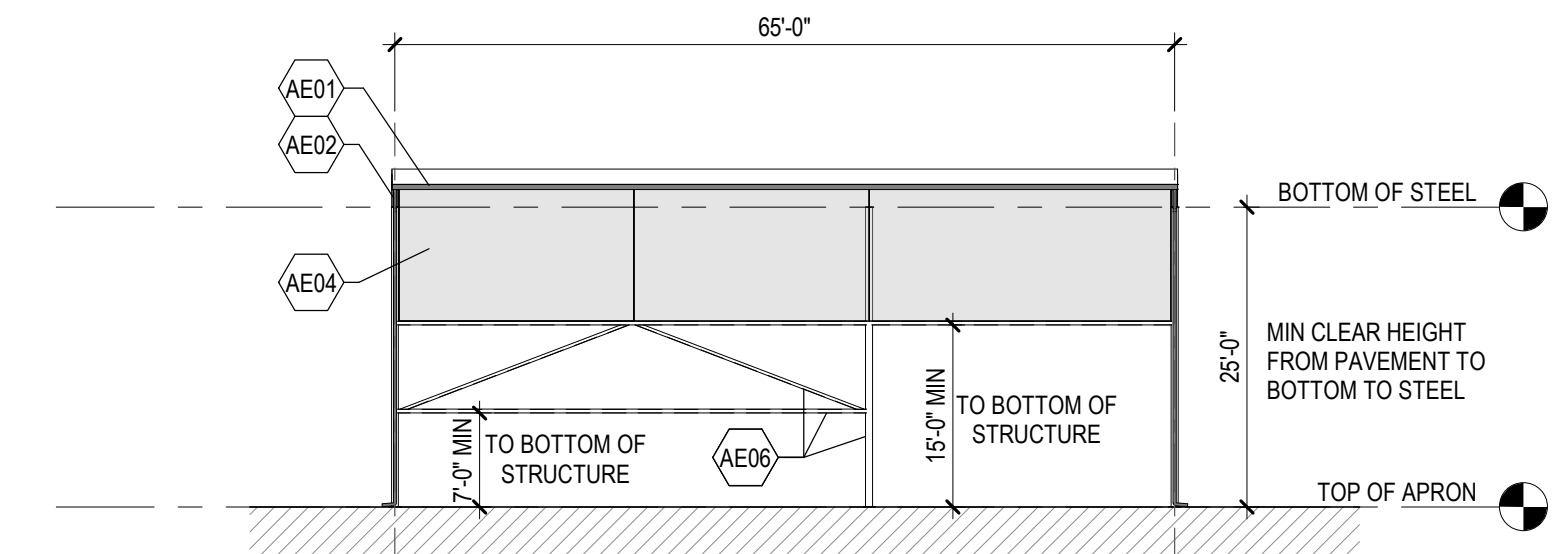
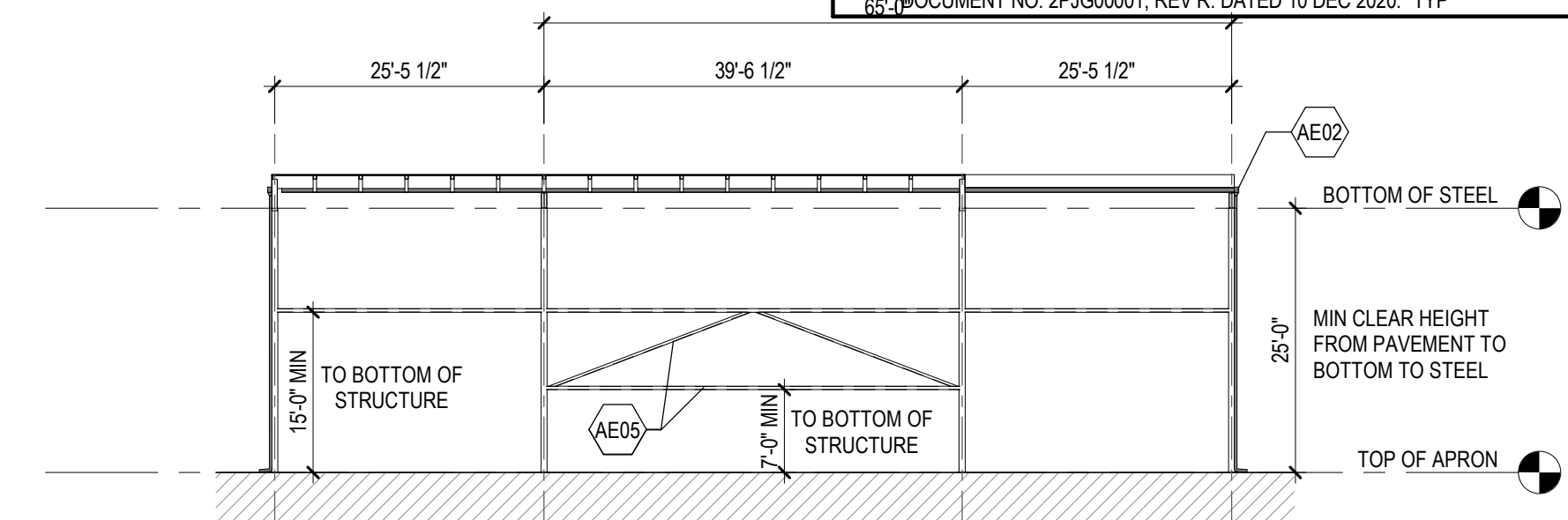
N.T.S.

SWING GATE NOTES:
 1. GATE IS FOR AUTHORIZED ACCESS TO THE AIRFIELD THRU THE TEMPORARY CONSTRUCTION FENCE. NO CONSTRUCTION PERSONNEL ALLOWED BEYOND THE CONSTRUCTION AREA WITHOUT AUTHORIZED SUPERVISOR.
 2. GATE TO BE LOCKED AT ALL TIMES.
 3. SECURE EACH FENCE PANEL STAND TO THE SURFACE BY PLACING A MINIMUM OF (2) 50 LB CONCRETE BLOCKS ON EACH STAND.



F8 LIGHTING FIXTURES STEEL PLATE
SCALE: NTS

- | GENERAL SUN SHADE NOTES | |
|-------------------------|---|
| | <ol style="list-style-type: none"> 1. STEEL SUN SHADE TO MATCH SPECIFICATIONS. 2. MANUFACTURER TO DESIGN AND ENGINEER STRUCTURAL MEMBER SIZES, CONNECTIONS AND DETAILS. SEE SPECIFICATION FOR DELEGATED DESIGN REQUIREMENTS. 3. ANTI-PERCHING DEVICES SHALL BE INSTALLED TO DETER BIRDS FROM PERCHING ON OR UNDER THE STRUCTURE. 4. DIMENSION SHOW ARE TYPICAL FOR ALL SUN SHADES UNLESS OTHERWISE NOTED. |
| KEYNOTE LEGEND | |
| AE01 | GUTTER, TYP |
| AE02 | DOWNSPOUT W/ CONDUCTOR HEAD. PROVIDE BIRD SCREEN OVER CONDUCTOR. TYP |
| AE03 | SUN SHADES ABOVE, TYP |
| AE04 | TRANSLUCENT FABRIC END SCREEN |
| AE05 | INTERMEDIATE BRACING ARE INDICATED AS BASIS OF DESIGN. IF DELEGATED SUN SHADE DESIGNER CAN MEET PROJECT REQUIREMENTS WITH A CLEAR SPAN STRUCTURE, THAT OPTION WILL BE ACCEPTABLE. |
| AE06 | INTERMEDIATE COLUMNS AND BRACING ARE INDICATED AS BASIS OF DESIGN. IF DELEGATED SUN SHADE DESIGNER CAN MEET PROJECT REQUIREMENTS WITH A CLEAR SPAN STRUCTURE, THAT OPTION WILL BE ACCEPTABLE. TYP |
| AE07 | SUN SHADE MFR TO PROVIDE: STEEL PLATE (1/8" THICK) BY 1/4" THICK SHW WELDED TO STRUCTURE COLUMN FOR LIGHTING FIXTURES. COORDINATE WELD REQUIREMENTS WITH FIXTURE TYPE. BOTTOM OF STEEL PLATE AT 3'-0" ABOVE APRON TYP. SEE PHOTO F8/AE101. REFER TO ELECTRICAL DRAWINGS FOR FIXTURE TYPE. TYP |
| AE08 | HIGH BAY LIGHTING FIXTURE PER ELECTRICAL DRAWINGS. LOCATION SHOWS DESIGN INTENT. COORDINATE ACTUAL LOCATION WITH SUN SHADE STRUCTURAL SUPPORT. TYP |
| AE09 | ALIS KIOSK (FUTURE) FURNISHED BY GOVERNMENT AND INSTALLED AS PER MANUFACTURERS RECOMMENDATIONS AND "F-35 LIGHTNING II FACILITIES REQUIREMENTS DOCUMENT - SECTION I: WEAPON SYSTEM CHARACTERISTICS, DOCUMENT NO. 2P/JG00001, REV R. DATED 10 DEC 2020." TYP |

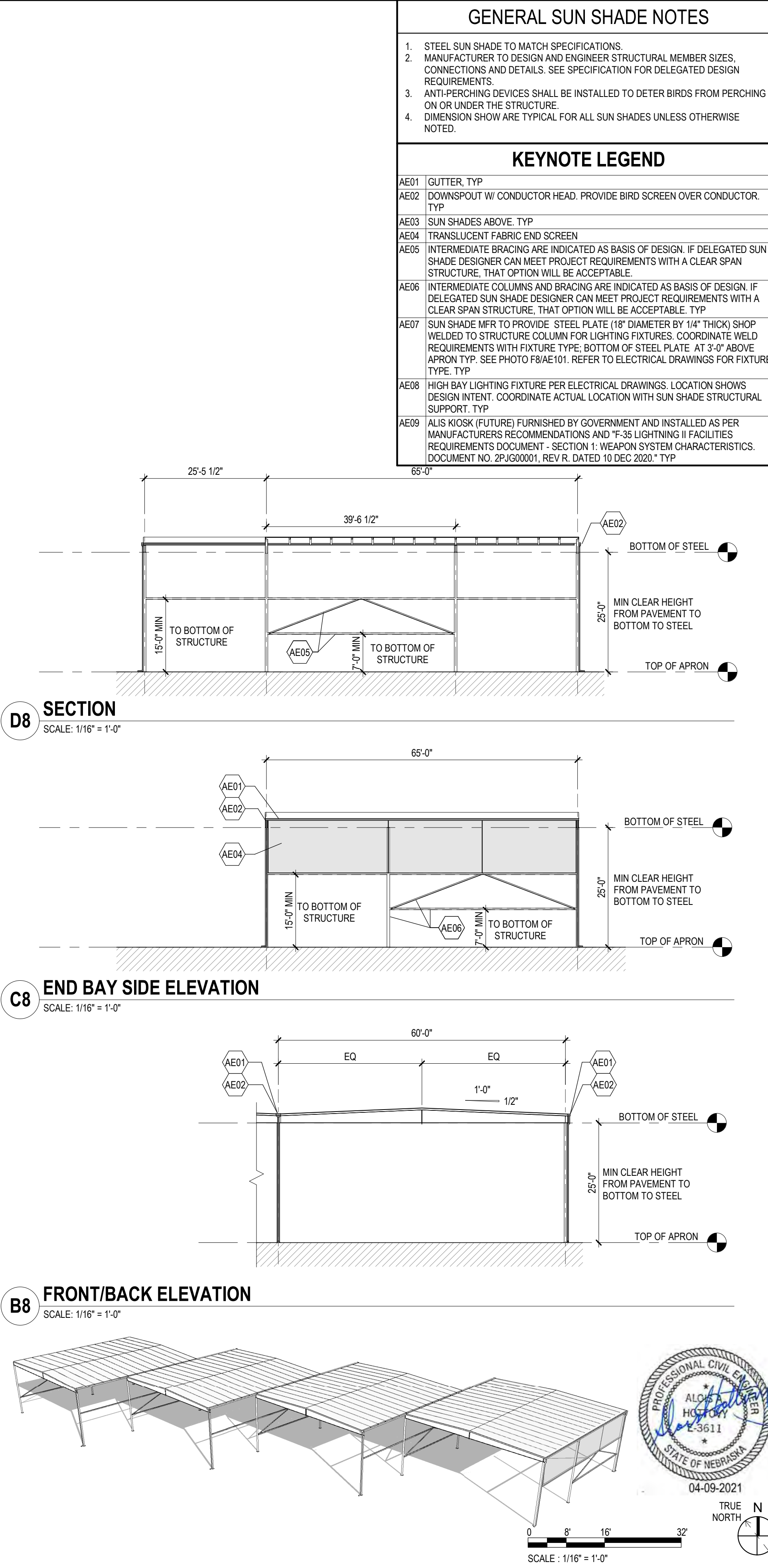
[illegible]

Air Force Reserve Command Department	DESIGNED BY:	MS	ISSUE DATE:	
	DRAWN BY:	KS	SOLICITATION NO.:	APRIL 9, 2021
	CHECKED BY:	MS	CONTRACT NO.:	P468752DR008
	SUBMITTED BY:	LAD		P468752DF008
	SIZE:	ANSI D		

NAVAL AIR STATION JRB FORT WORTH, TX
F-35 SUNSHADES, LIGHTING, AND LIGHTNING PROTECTION

SHEET ID
AE101

4/7/2021 3:32:57 PM
LAD Project No: 082-10065-006
C:\Users\kshen\Autodesk\Revit 2020 Projects\FAP_All_kshen.rvt



MARK	DESCRIPTION	DATE

ISSUE DATE:	MS	APRIL 9, 2021
DESIGNED BY:	KS	SOLICITATION NO.: F667520F0008
DRAWN BY:	MS	CONTRACT NO.: F667520F0008
CHECKED BY:	LAD	
SUBMITTED BY:		
SIZE:	ANSI D	

Air Force Reserve Command Department
1776 GARDENWELL AVE
NILES, ILL 60067

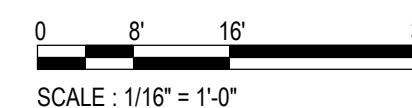
NAVAL AIR STATION JBH FORT WORTH, TX
F-35 SUNSHADES, LIGHTING, AND LIGHTNING PROTECTION

TYP SUN SHADE LAYOUT - 67 DEGREE SOUTH

SHEET ID
AE102



- D8** **SECTION**
SCALE: 1/16" = 1'-0"





A3 ELECTRICAL SITE PLAN
SCALE: 1" = 80'-0"

SITE PLAN NOTES

1. SITE PLAN SHOWN IS FOR COORDINATION PURPOSES ONLY. DUCTBANK ROUTES SHOWN ARE APPROXIMATE.

[illegible]

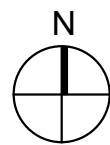
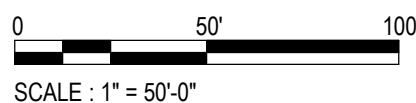
ISSUE DATE: APRIL 9, 2021	SOLICITATION NO.: FA667520R0008	CONTRACT NO.: FA667520F0008
DESIGNED BY: SCD	DRAWN BY: JLH	CHECKED BY: SCD
	SUBMITTED BY: LAD	
SIZE: ANSI D		

Air Force Reserve Command Department
301 ST CONF / LGC
1776 CARLSWELL AVE.
NAS JRB FT WORTH TX

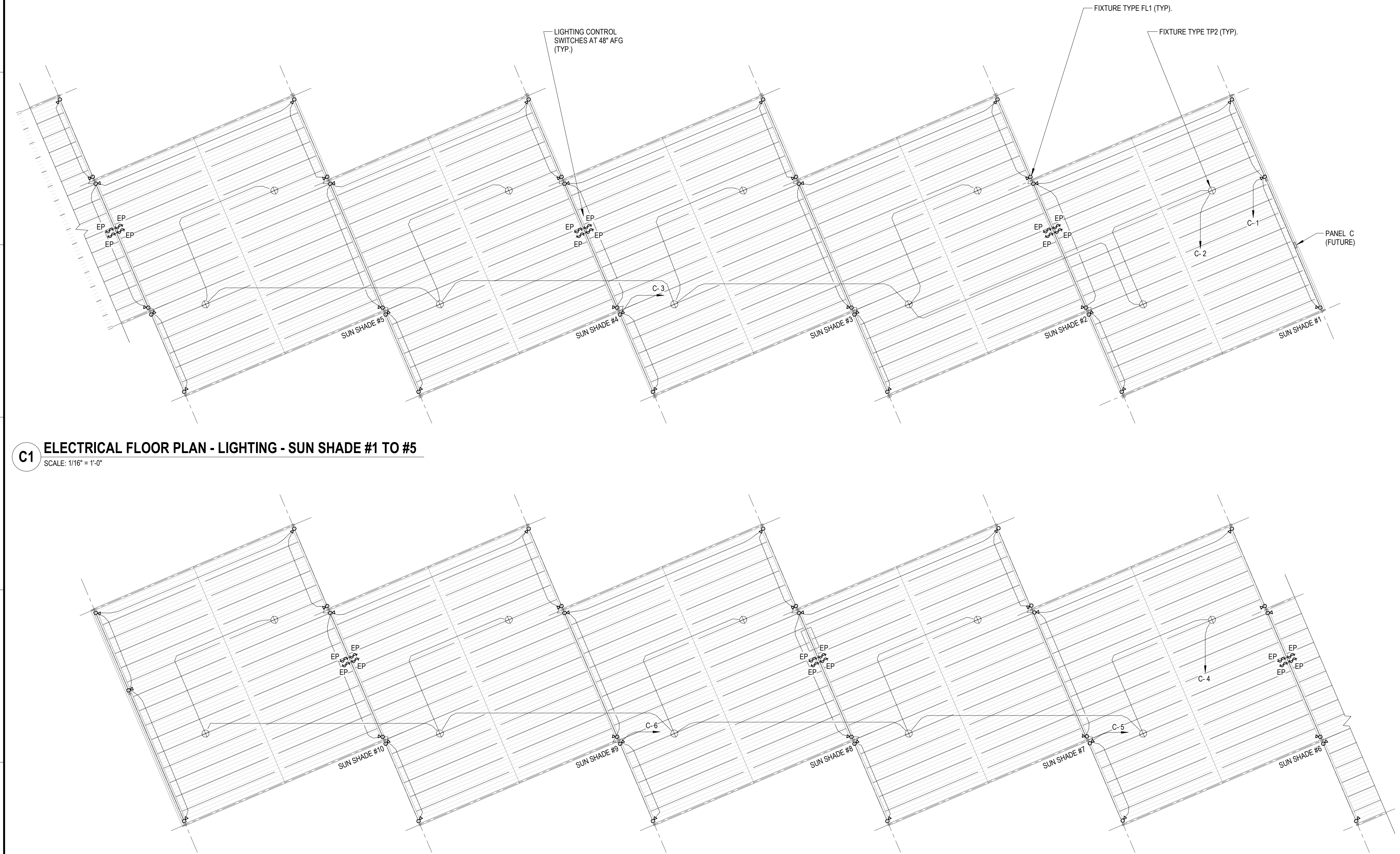
NAVAL AIR STATION JRB FORT WORTH, TX.
F-35 SUNSHADES, LIGHTING, AND LIGHTNING PROTECTION

ELECTRICAL SITE PLAN

SHEET ID
ES101



A **B** **C** **D** **E** **F** **G**



C1 ELECTRICAL FLOOR PLAN - LIGHTING - SUN SHADE #1 TO #5
SCALE: 1/16" = 1'-0"

A1 ELECTRICAL FLOOR PLAN - LIGHTING - SUN SHADE #6 TO #10
SCALE: 1/16" = 1'-0"

- ## LIGHTING PLAN NOTES
1. PROVIDE ELECTRICAL INSTALLATION AND COMPONENTS TO COMPLY NFPA 70 ARTICLE 500 HAZARDOUS (CLASSIFIED) LOCATIONS. AREAS WITHIN 5-FEET OF AIRCRAFT ARE TO BE CONSIDERED AS CLASS 1, DIVISION 1. AREAS OUTSIDE OF THIS BOUNDARY ARE TO BE CONSIDERED AS CLASS 1, DIVISION 2.
 2. PROVIDE AND INSTALL ALL LIGHTING FIXTURES AS INDICATED.
 3. INTERCONNECT THE TYPE 'FL1' AND 'TP2' FIXTURES ON 277V CIRCUIT FROM FUTURE PANEL AS INDICATED WITH 2#10 AWG AND 1#10(G) IN 3/4" GRS CONDUIT. PROVIDE SEAL-OFF FITTINGS PER NFPA 70A.
 4. PROVIDE JUNCTION BOX AT STRUCTURE ABOVE FUTURE PANEL AS NEEDED FOR FUTURE EXTENSION OF BRANCH CIRCUIT HOMERUNS. EXTEND LIGHTING CIRCUITS AS SHOWN TO THIS JUNCTION BOX.
 5. PROVIDE TWO LIGHTING SWITCHES FOR EACH SUNSHADE AS SHOWN. ONE SWITCH TO CONTROL THE TYPE 'FL1' FIXTURES AND ONE TO CONTROL THE TYPE 'TP2' FIXTURES IN EACH RESPECTIVE SUNSHADE. ALL SWITCHES TO BE EXPLOSION PROOF (EP) AND WEATHERPROOF. INSTALL SWITCHES ON STRUT SUPPORT STRUCTURE WITH OTHER ELECTRICAL EQUIPMENT.
 6. REFER TO LIGHTING FIXTURE TYPE 'FL1' MOUNTING DETAIL ON SHEET EP501.

[illegible]

DESIGNED BY: SCD	ISSUE DATE: APRIL 9, 2021
DRAWN BY: J.L.H	SOLICITATION NO.: FA687520R0008
CHECKED BY: SCD	CONTRACT NO.: FA687520F0008
SUBMITTED BY: LAD	
SIZE: ANSI D	

Air Force Reserve Command Department
1776 CARL SWELTOWE
NAS JRB FT WORTH TX

NAVAL AIR STATION JRB FORT WORTH, TX.
F-35 SUNSHADES, LIGHTING, AND LIGHTNING PROTECTION

ELECTRICAL FLOOR PLAN - LIGHTING - 67 DEGREE
NORTH

SHEET ID
EL101



[illegible]

DESIGNED BY: SCD	ISSUE DATE: APRIL 9, 2021
DRAWN BY: J LH	SOLICITATION NO.: FA667520R0008
CHECKED BY: SCD	CONTRACT NO.: FA667520F0008
SUBMITTED BY: LAD	
SIZE: ANSI/D	

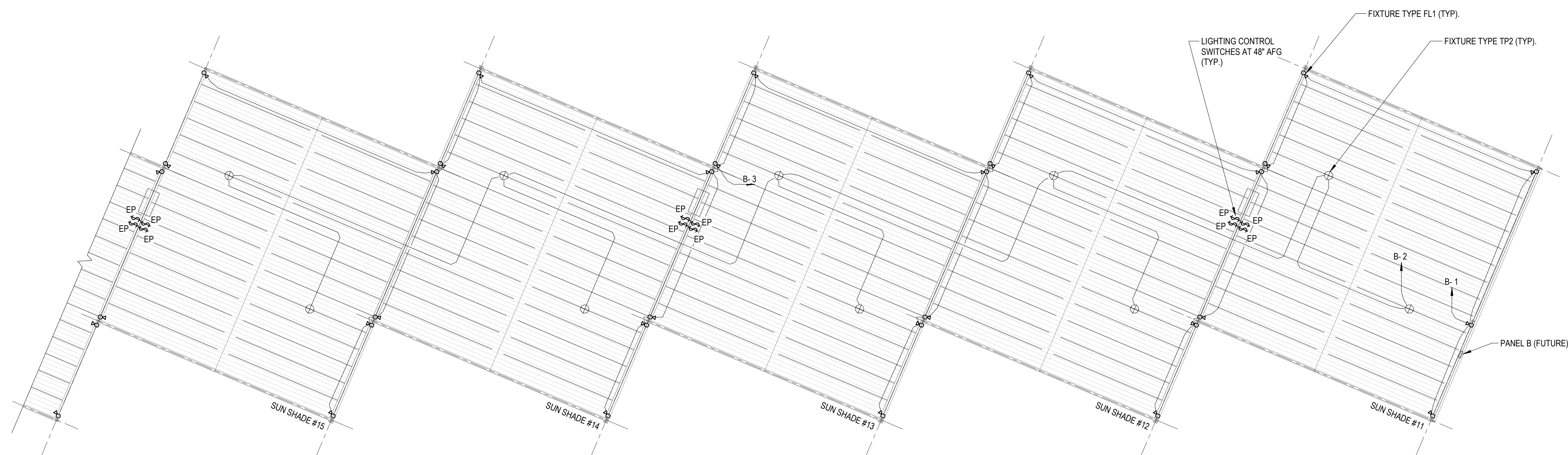
Air Force Reserve Command Department
301 ST CONF / LOC
1776 CARLSWELL AVE.
NAS JRB FT WORTH TX

NAVAL AIR STATION JRB FORT WORTH, TX.
F-35 SUNSHADES, LIGHTING, AND LIGHTNING PROTECTION

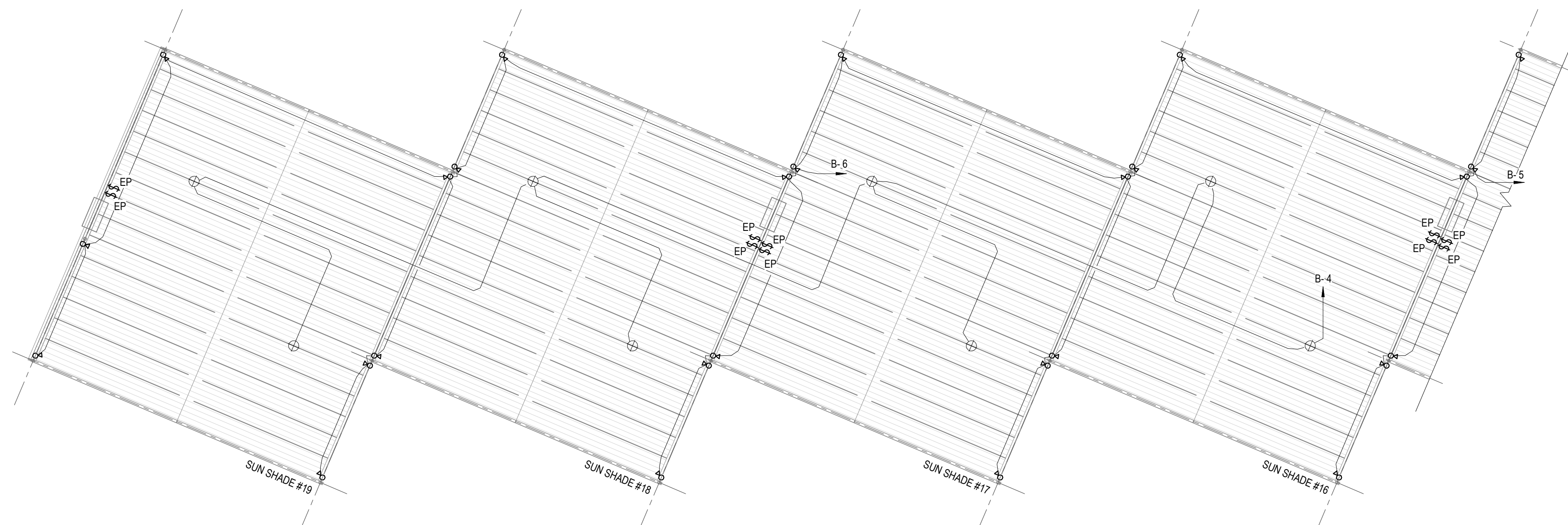
SHEET ID
EL102

LIGHTING PLAN NOTES

1. PROVIDE ELECTRICAL INSTALLATION AND COMPONENTS TO COMPLY NFA 70 ARTICLE 500 HAZARDOUS (CLASSIFIED) LOCATIONS. AREAS WITHIN 5-FEET OF AIRCRAFT ARE TO BE CONSIDERED AS CLASS 1, DIVISION 1. AREAS OUTSIDE OF THIS BOUNDARY ARE TO BE CONSIDERED AS CLASS 1, DIVISION 2.
2. PROVIDE AND INSTALL ALL LIGHTING FIXTURES AS INDICATED.
3. INTERCONNECT THE TYPE 'FL1' AND TP2' FIXTURES ON 277V CIRCUIT FROM FUTURE PANEL AS INDICATED WITH #210 AWG AND #110(G) IN 3/4" GRS CONDUIT. PROVIDE SEAL-OFF FITTINGS PER NFA 70.
4. PROVIDE JUNCTION BOX AT STRUCTURE ABOVE FUTURE PANEL AS NEEDED FOR FUTURE EXTENSION OF BRANCH CIRCUIT HOMERUNS. EXTEND LIGHTING CIRCUITS AS SHOWN TO THIS JUNCTION BOX.
5. PROVIDE TWO LIGHTING SWITCHES FOR EACH SUNSHADE AS SHOWN. ONE SWITCH TO CONTROL THE SUNSHADE AND ONE TO CONTROL THE TYPE TP2' FIXTURES IN EACH RESPECTIVE SUNSHADE. ALL SWITCHES TO BE EXPLOSION PROOF (EP) AND WEATHERPROOF. INSTALL SWITCHES ON STRUT SUPPORT STRUCTURE WITH OTHER ELECTRICAL EQUIPMENT.
6. REFER TO LIGHTING FIXTURE TYPE 'FL1' MOUNTING DETAIL ON SHEET EPS01.



C1 ELECTRICAL FLOOR PLAN - LIGHTING - SUN SHADE #11 TO #15
SCALE: 1/16" = 1'-0"



A1 ELECTRICAL FLOOR PLAN - LIGHTING - SUN SHADE #16 TO #19
SCALE: 1/16" = 1'-0"



04-09-202

TRUE N



0 8' 16'

SCALE : 1/16" = 1'-0"

LIGHTING FIXTURE SCHEDULE

MARK	DESCRIPTION	BASIS OF DESIGN MANUFACTURER	BASIS OF DESIGN MODEL	NO. OF LAMPS	LAMP				APPARENT LOAD	VOLTAGE	MOUNTING	COMMENTS
					WATTS	TYPE - DESIGN LUMENS	CCT	CRI	INPUT POWER			
FL1	FLOOD LIGHT - CLASS 1, DIVISION 2, NEMA 4X, IP66, WIRE GUARD	CROUSE-HINDS	FMAV-11L-W-Y-UNV1-76-P62	1	83 W	LED - 12,000 LUMENS	3000 K	80	83 VA	277 V	SURFACE	MOUNT AT MINIMUM 3'-0" AFG, REFER TO ARCHITECTURAL DETAIL
TP2	SUSPENDED LED HIGH BAY LUMINAIRE - CLASS 1, DIVISION 1, NEMA 4X, IP66, STAINLESS STEEL GUARD	CROUSE-HINDS	EVLL-11L-W-A-2-1-UNV1	1	114 W	LED - 11,000 LUMENS	3000 K	80	114 VA	277 V	PENDANT HUNG	MOUNT AT MINIMUM 25'-6" AFG TO THE BOTTOM, UON

LIGHTING FIXTURE SCHEDULE NOTES:

1. LIGHTING FIXTURES SHALL BE PROVIDED AS SPECIFIED IN THE SCHEDULE OR APPROVED EQUIVALENT. LIGHTING FIXTURES INDICATED ARE A BASIS OF DESIGN AND THERE IS NO INTENT TO SOLE SOURCE. CONTRACTOR SHALL VERIFY ALL CATALOG NUMBERS.
2. PROVIDE ALL FIXTURES COMPLETE WITH ALL ACCESSORIES TO MEET THE DESCRIPTION AND FUNCTIONAL REQUIREMENTS. PROPOSED LUMINAIRES MUST SHOW TO BE EQUIVALENT OR BETTER IN, BUT NOT LIMITED TO, THE FOLLOWING: PHOTOMETRIC CHARACTERISTIC, MATERIALS, CONSTRUCTION, FEATURES, FINISHES, LENSES, ENERGY CONSUMPTION, ETC. SUBMITTALS SHALL INCLUDE SHOP DRAWINGS INDICATING POINT BY POINT AND LIGHT LEVEL CALCULATIONS AS PER REQUIREMENTS AND COORDINATE ANY RELATED CHANGES TO THE LIGHTING CONTROLS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL REQUIRED CIRCUITRY, DEVICES, AND CONTROLS WIRING.
3. PROVIDE HANGER WIRE SUPPORT FROM BUILDING STRUCTURE TO EACH CORNER OF LIGHT FIXTURES FOR ALL RECESSED CEILING TYPE FIXTURES. COORDINATE WITH CEILING CONSTRUCTION TYPE FOR FIXTURE SUPPORT. PROVIDE ALL HARDWARE, FRAME-IN KITS, ETC. AS REQUIRED FOR COMPLETE INSTALLATION.
4. PROVIDE LAMPS MEETING THE MINIMUM REQUIREMENTS AS SPECIFIED FOR ALL FIXTURES. ALL LAMPS SHALL BE NEW. ALL LAMPS OF THE SAME TYPE SHALL BE BY THE SAME MANUFACTURER TO MATCH PROPERTIES.
5. WHERE DIMMING BALLASTS AND/OR SWITCHES ARE INDICATED ON THE PLANS, THE CONTRACTOR SHALL VERIFY AND PROVIDE COMPATIBLE EQUIPMENT THAT FUNCTIONS AS INTENDED. DIMMED LIGHT FIXTURES MUST NOT FLICKER OR HUM.
6. PROVIDE APPROPRIATE FLANGE TRIM OR LAY-IN GRID ACCESSORIES FOR RECESSED FIXTURES AS REQUIRED PER THE CEILING TYPES SHOWN ON THE DRAWINGS.
7. PROVIDE EMERGENCY BATTERY BALLASTS TO FIXTURES AS INDICATED ON THE LIGHTING PLANS (HATCHED SYMBOL PER THE SYMBOLS LEGEND, OR AS INDICATED). REFER TO ELECTRICAL LIGHTING PLANS AND VERIFY TYPES AND QUANTITIES PRIOR TO ORDERING FIXTURES. EMERGENCY FIXTURES WITH 2 OR MORE 4' LINEAR FLUORESCENT LAMPS SHALL BE PROVIDED WITH A 2-LAMP EMERGENCY BATTERY BALLAST AS INDICATED AND SUPPLY POWER FOR A MINIMUM OF 90 MINUTES AND A MINIMUM OF 1100 LUMENS PER FIXTURE. PROVIDE AND CONNECT TO THE EMERGENCY BATTERY BALLAST FROM EACH FIXTURE, AN UNSWITCHED "HOT" CONDUCTOR FROM THE SAME CIRCUIT SERVING THE AREA/ROOM WHERE THE FIXTURE(S) ARE LOCATED OR AS OTHERWISE NOTED.
8. ALL LED FIXTURES SHALL HAVE A 10-YEAR WARRANTY. REFER TO SPECIFICATIONS.

LIGHTING PLAN NOTES

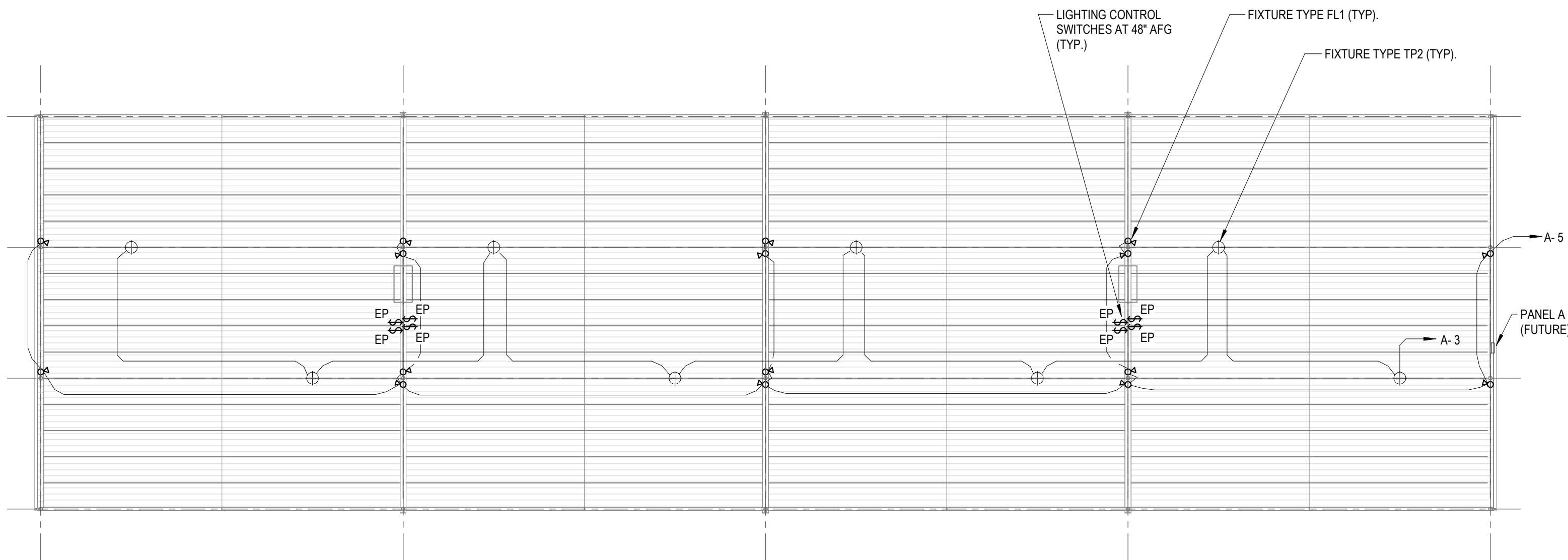
1. PROVIDE ELECTRICAL INSTALLATION AND COMPONENTS TO COMPLY NFPA 70 ARTICLE 500 HAZARDOUS (CLASSIFIED) LOCATIONS. AREAS WITHIN 5 FEET OF AIRCRAFT ARE TO BE CONSIDERED AS CLASS 1, DIVISION 1. AREAS OUTSIDE OF THIS BOUNDARY ARE TO BE CONSIDERED AS CLASS 1, DIVISION 2.
2. PROVIDE AND INSTALL ALL LIGHTING FIXTURES AS INDICATED.
3. INTERCONNECT THE TYPE 'FL1' AND 'TP2' FIXTURES ON 277V CIRCUIT FROM FUTURE PANEL AS INDICATED WITH #210 AWG AND 1#10(G) IN 3/4" GRS CONDUIT. PROVIDE SEAL-OFF FITTINGS PER NFPA 70.
4. PROVIDE JUNCTION BOX ON STRUT ABOVE FUTURE PANEL AS NEEDED FOR FUTURE EXTENSION OF BRANCH CIRCUITS. COMEINERS, EXTEND LIGHTING CIRCUITS AS SHOWN TO THIS JUNCTION BOX.
5. PROVIDE TWO LIGHTING SWITCHES FOR EACH SUNSHADE AS SHOWN. ONE SWITCH TO CONTROL THE TYPE 'FL1' FIXTURES AND ONE TO CONTROL THE TYPE 'TP2' FIXTURES IN EACH RESPECTIVE SUNSHADE. ALL SWITCHES TO BE EXPLOSION PROOF (EP) AND WEATHERPROOF. INSTALL SWITCHES ON STRUT SUPPORT STRUCTURE WITH OTHER ELECTRICAL EQUIPMENT.
6. REFER TO LIGHTING FIXTURE TYPE 'FL1' MOUNTING DETAIL ON SHEET EP501.

[illegible]

Air Force Reserve Command Department 301 ST CONG / LOC 10000 NASSAU NORTH FLX	DESIGNED BY:	SCD	ISSUE DATE:	APRIL 9, 2021
	DRAWN BY:	JLH	SOLICITATION NO.:	AF687520F0008
	CHECKED BY:	SCD	CONTRACT NO.:	FA687520F0008
	SUBMITTED BY:	LAD		
	SIZE:	ANSI/D		

NAVAL AIR STATION JRB FORT WORTH, TX
F-35 SUNSHADES, LIGHTING, AND LIGHTNING PROTECTION

SHEET ID
EL103



A1 ELECTRICAL FLOOR PLAN - LIGHTING - SUN SHADE #20 TO #23
SCALE: 1/16" = 1'-0"

SCALE: 1/16" = 1'-0"



04-09-202

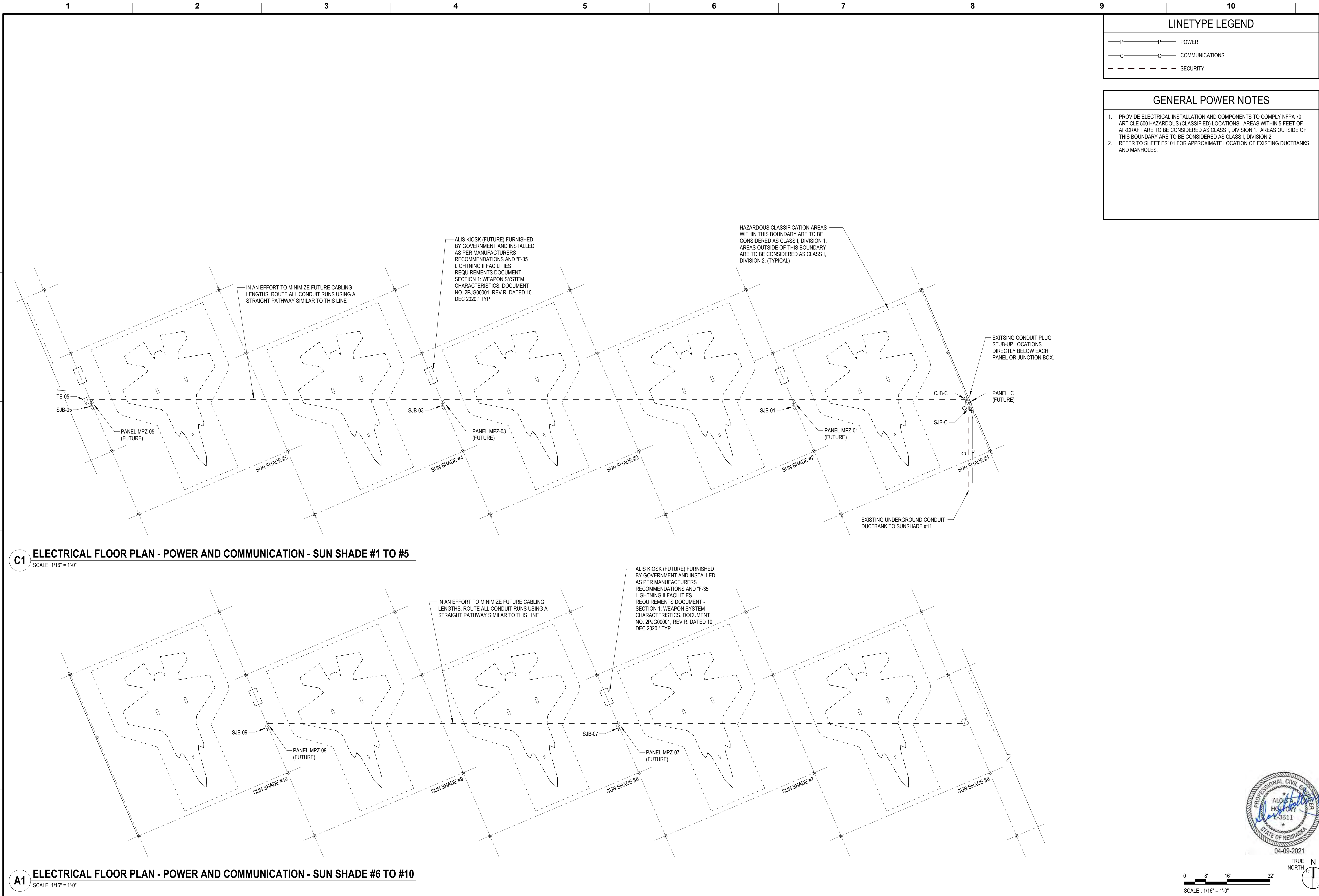
TRUE NORTH 



0 8' 16'

SCALE : 1/16" = 1'-0"

C:\Users\kshen\Autodesk\Revit 2020 Projects\FAP_All\kshen.rvt
4/7/2021 3:30:24 PM
LAD Project No: 092-10065-006



C1 ELECTRICAL FLOOR PLAN - POWER AND COMMUNICATION - SUN SHADE #1 TO #5
SCALE: 1/16" = 1'-0"

A1 ELECTRICAL FLOOR PLAN - POWER AND COMMUNICATION - SUN SHADE #6 TO #10
SCALE: 1/16" = 1'-0"

LINETYPE LEGEND

- P — POWER
- C — COMMUNICATIONS
- - - S - SECURITY

GENERAL POWER NOTES

1. PROVIDE ELECTRICAL INSTALLATION AND COMPONENTS TO COMPLY NFPA 70 ARTICLE 500 HAZARDOUS (CLASSIFIED) LOCATIONS. AREAS WITHIN 5-FEET OF AIRCRAFT ARE TO BE CONSIDERED AS CLASS I, DIVISION 1. AREAS OUTSIDE OF THIS BOUNDARY ARE TO BE CONSIDERED AS CLASS I, DIVISION 2.
2. REFER TO SHEET ES101 FOR APPROXIMATE LOCATION OF EXISTING DUCTBANKS AND MANHOLES.



DATE
DESCRIPTION
MARK

DESIGNED BY: SCD	ISSUE DATE: APRIL 9, 2021
DRAWN BY: JLH	SOLICITATION NO.: F667520R0008
CHECKED BY: SCD	CONTRACT NO.: F667520F0008
SUBMITTED BY: LAD	
SIZE: ANS/D	

Air Force Reserve Command Department
1776 GARDENWELL AVE
NAGS JMS FT WORTH TX

NAVAL AIR STATION JRB FORT WORTH, TX
F-35 SUNSHADES, LIGHTING, AND LIGHTNING PROTECTION
ELECTRICAL FLOOR PLAN - POWER AND COMMUNICATION - 67 DEGREE NORTH

SHEET ID
EP101

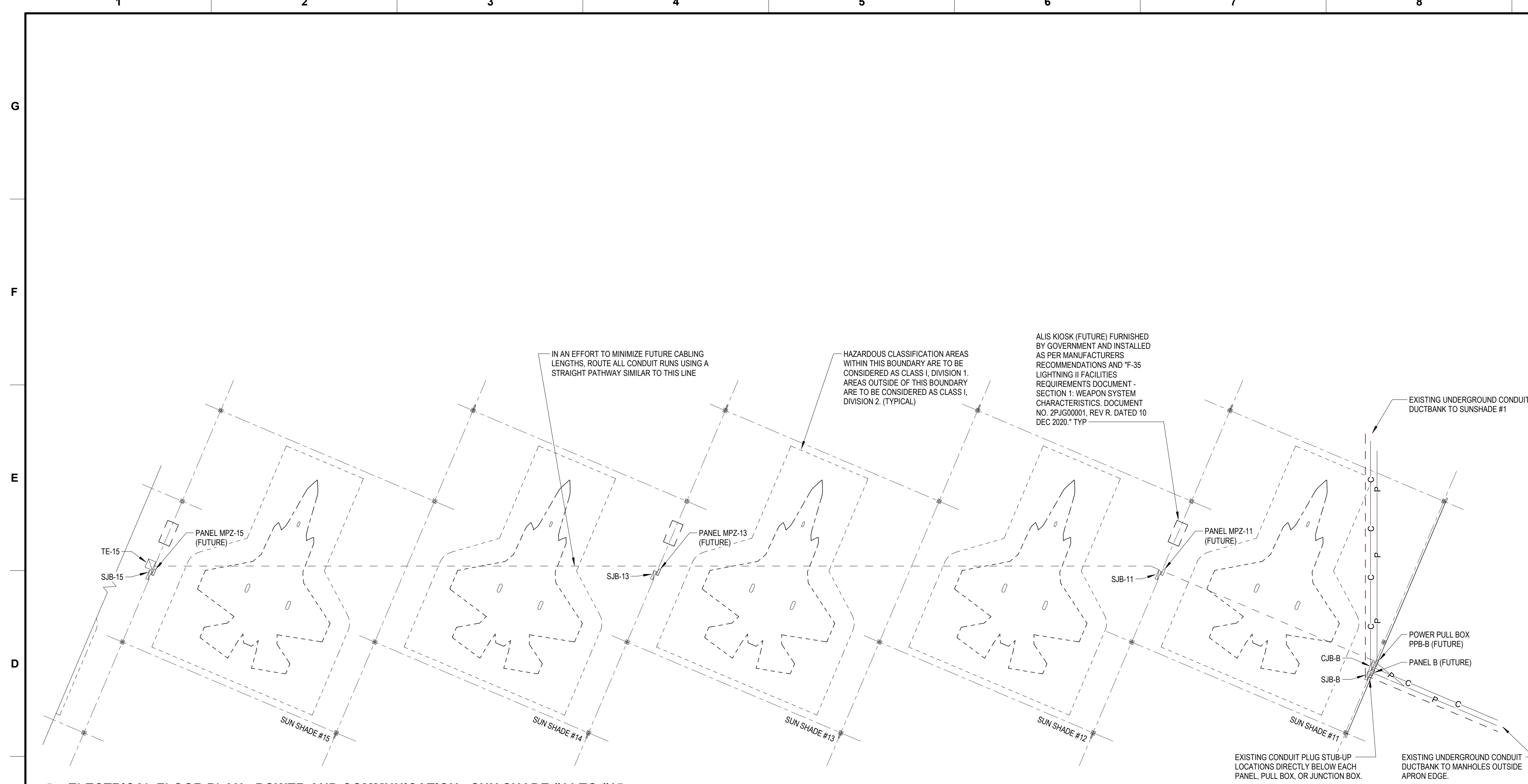


0 8' 16' 32'
SCALE: 1/16" = 1'-0"

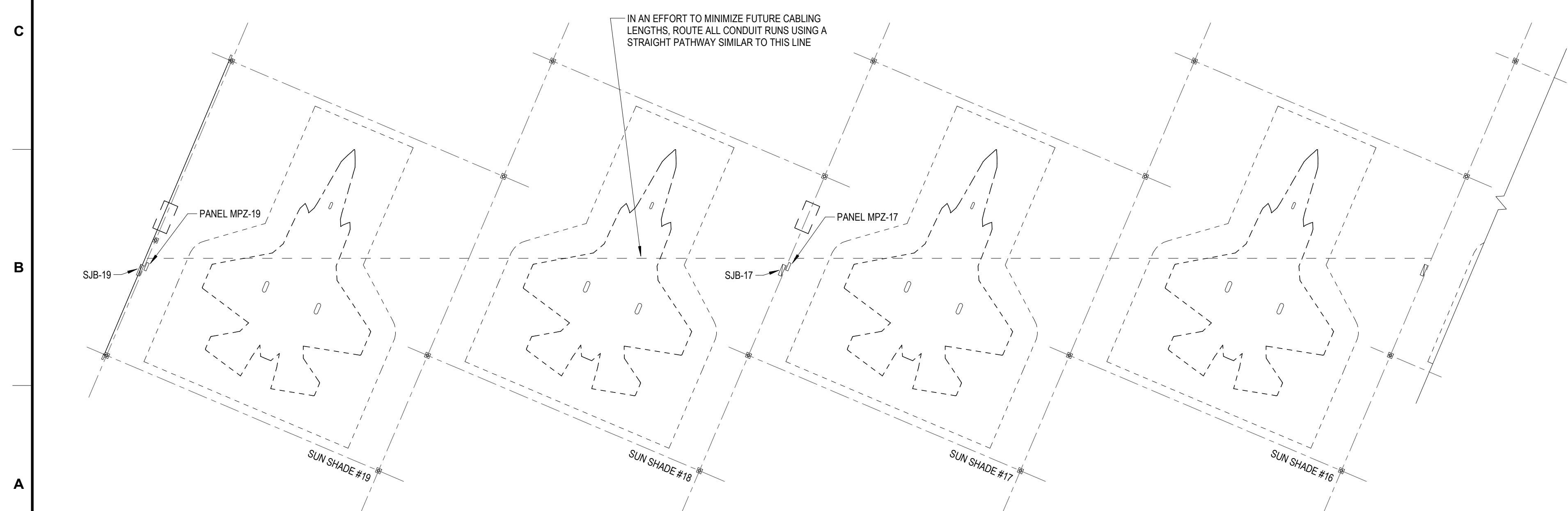


CORRECTED FINAL

CUI



C1 ELECTRICAL FLOOR PLAN - POWER AND COMMUNICATION - SUN SHADE #11 TO #15
SCALE: 1/16" = 1'-0"



A1 ELECTRICAL FLOOR PLAN - POWER AND COMMUNICATION - SUN SHADE #16 TO #19
SCALE: 1/16" = 1'-0"

LINETYPE LEGEND	
—P—P—	POWER
—C—C—	COMMUNICATIONS
- - - - -	SECURITY

GENERAL POWER NOTES

1. PROVIDE ELECTRICAL INSTALLATION AND COMPONENTS TO COMPLY NFPA 70 ARTICLE 500 HAZARDOUS (CLASSIFIED) LOCATIONS. AREAS WITHIN 5-FEET OF AIRCRAFT ARE TO BE CONSIDERED AS CLASS I, DIVISION 1. AREAS OUTSIDE OF THIS BOUNDARY ARE TO BE CONSIDERED AS CLASS I, DIVISION 2.
2. REFER TO SHEET ES101 FOR APPROXIMATE LOCATION OF EXISTING DUCTBANKS AND MANHOLES.

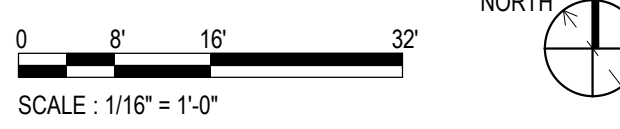
[illegible]

ISSUE DATE:	APRIL 9, 2021
DESIGNED BY:	SCD
DRAWN BY:	JLH
SOLICITATION NO.:	FA667520R0008
CHECKED BY:	SCD
CONTRACT NO.:	FA667520F0008
SUBMITTED BY:	LAD
SIZE:	
ANSI D	

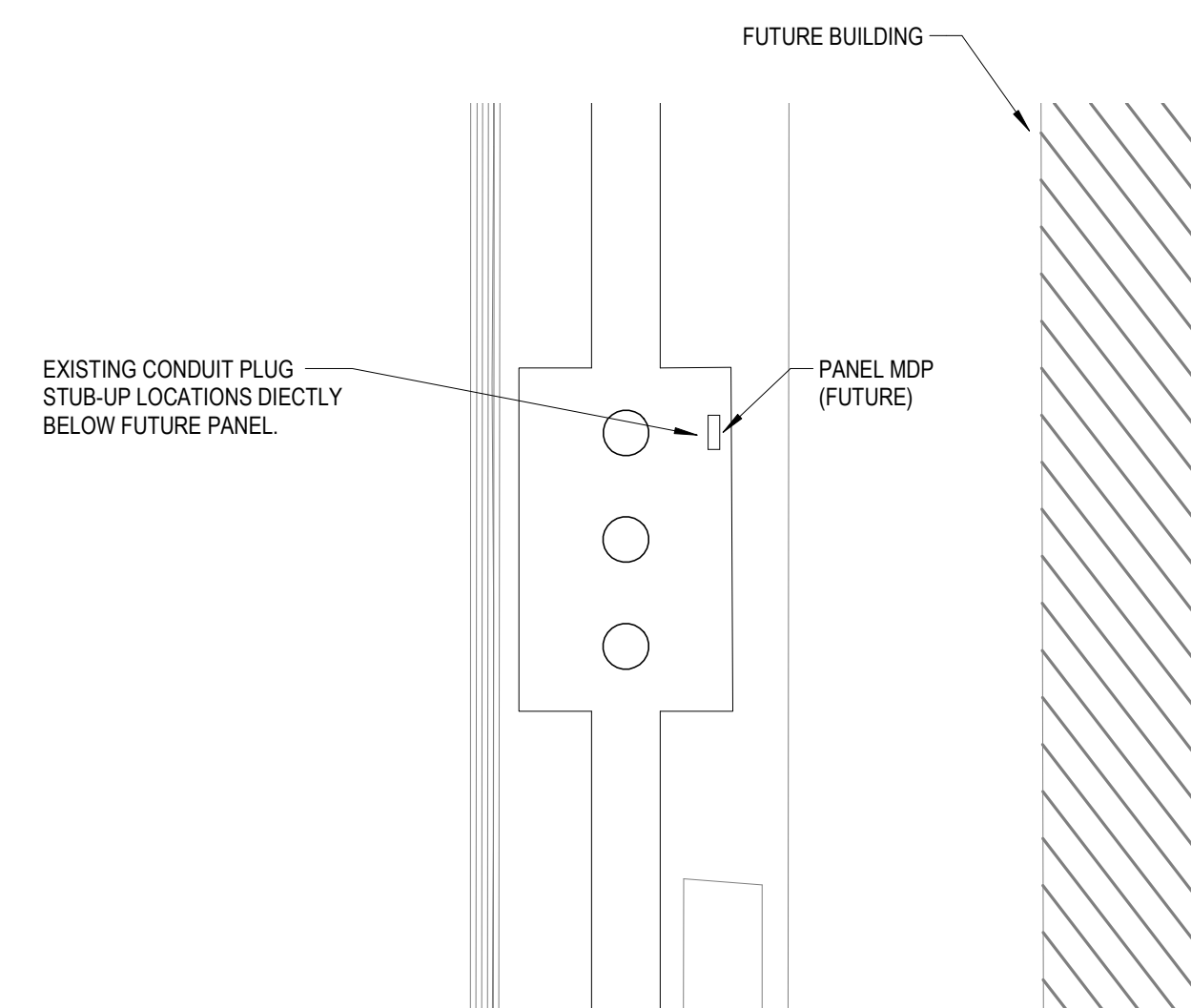
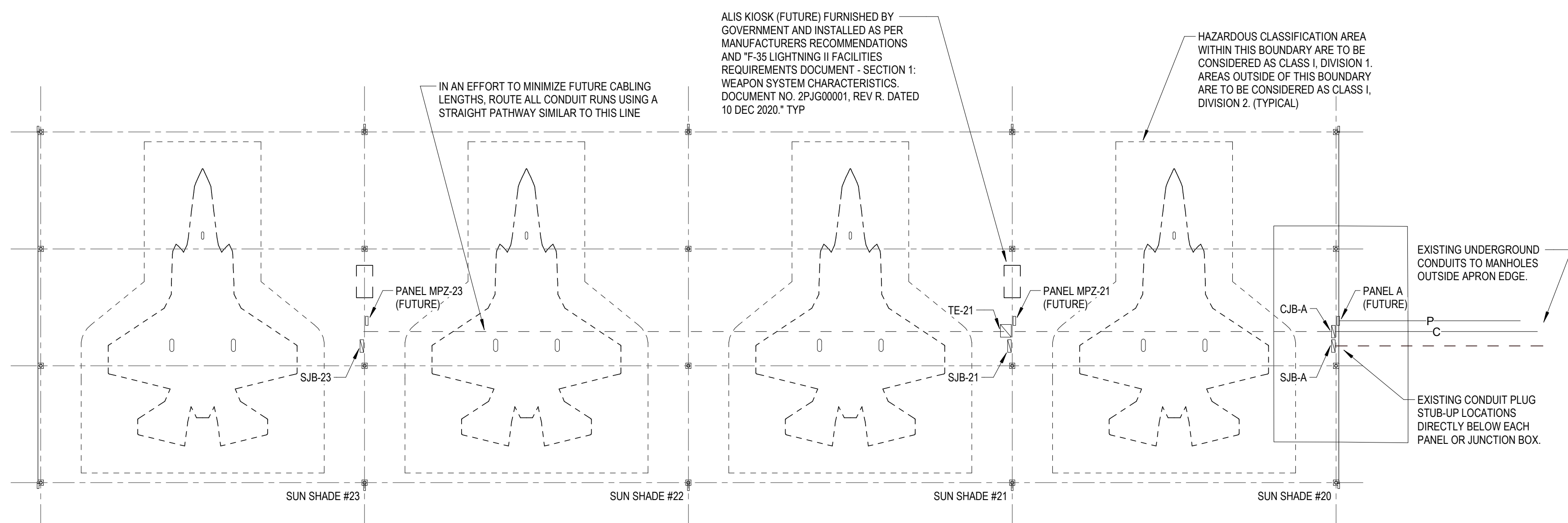
Air Force Reserve Command Department
301 S. GRIFF LGC
1710 S. BURNLEY AVE.
NAS JRB FT WORTH TX

NAVAL AIR STATION JRB FORT WORTH, TX.
F-35 SUNSHADES, LIGHTING, AND LIGHTNING PROTECTION

SHEET ID
EP102



A



LINETYPE LEGEND

—P—P— POWER
—C—C— COMMUNICATIONS
- - - - - SECURITY

GENERAL POWER NOTES

1. PROVIDE ELECTRICAL INSTALLATION AND COMPONENTS TO COMPLY NFPA 70 ARTICLE 500 HAZARDOUS (CLASSIFIED) LOCATIONS. AREAS WITHIN 5-FEET OF AIRCRAFT ARE TO BE CONSIDERED AS CLASS I, DIVISION 1. AREAS OUTSIDE OF THIS BOUNDARY ARE TO BE CONSIDERED AS CLASS I, DIVISION 2.
2. REFER TO SHEET ES101 FOR APPROXIMATE LOCATION OF EXISTING DUCTBANKS AND MANHOLES.

[illegible]

DESIGNED BY: SCD	ISSUE DATE: APRIL 9, 2021
DRAWN BY: JH	SOLICITATION NO.: FA667520R0008
CHECKED BY: SCD	CONTRACT NO.: FA667520F0008
SUBMITTED BY: LAD	
SIZE: 11x17	ANSI D

Air Force Reserve Command Department
301 ST CONF / LGC
1776 CARLSWELL AVE.
N.A.C. 1000 FT. T.M. CONTELITY

NAVAL AIR STATION JRB FORT WORTH, TX
-35 SUNSHADES, LIGHTING, AND LIGHTNING PROTECTION

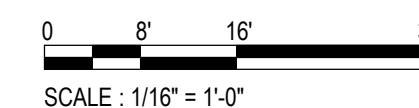
ELECTRICAL FLOOR PLAN - POWER AND
COMMUNICATION - 90 DEGREE

SHEET ID
EP103



04-09-202

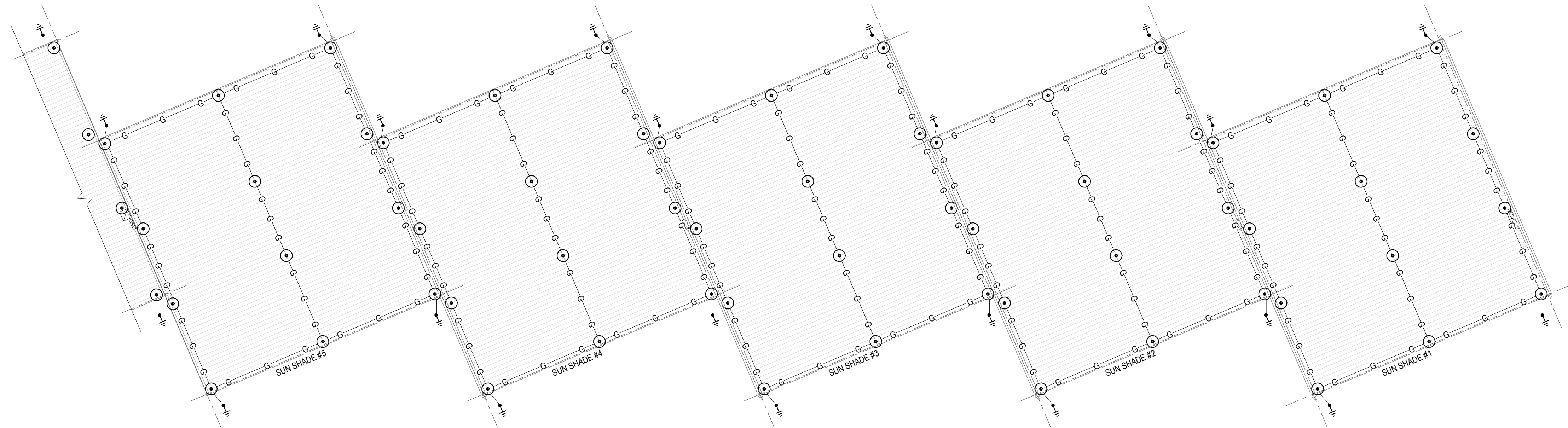
TRUE NORTH



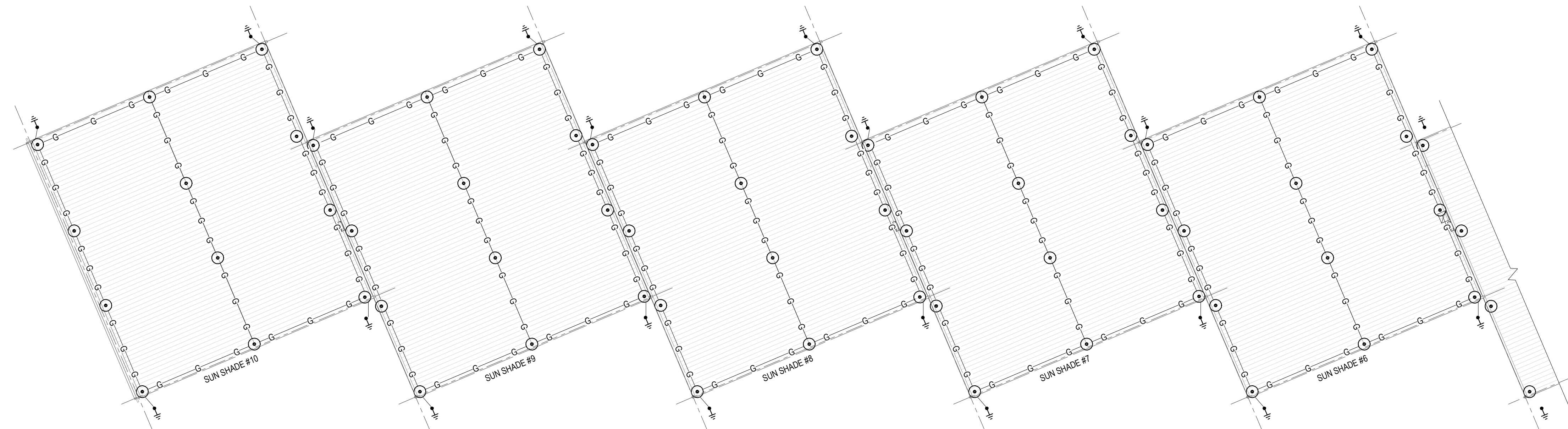
SCALE : 1/16" = 1'-0"

CORRECTED FINAL

CUI



C1 ELECTRICAL FLOOR PLAN - LIGHTNING AND GROUNDING - SUN SHADE #1 TO #5
SCALE: 1/16" = 1'-0"



A1 ELECTRICAL FLOOR PLAN - LIGHTNING AND GROUNDING - SUN SHADE #6 TO #10
SCALE: 1/16" = 1'-0"

- ## LIGHTNING PROTECTION (LP) NOTES

1. THE DESIGN AND INSTALLATION DETAILS SHOWN SHALL BE USED ONLY AS GUIDANCE AND NOT CONSTRUED AS FINAL DESIGN DOCUMENTS. PROVIDE LIGHTNING PROTECTION (LP) SYSTEM IN ACCORDANCE WITH ALL NFPA 780 REQUIREMENTS. THE FINAL DESIGN SHALL MEET THE REQUIREMENTS FOR RECEIPT OF AN UNDERWRITERS LABORATORIES (UL) 96A INSPECTION CERTIFICATE.
2. COMPLETE DESIGN, SPECIFICATIONS AND FABRICATION SHOP DRAWINGS SHALL BE SUBMITTED FOR REVIEW AND APPROVAL BY THE ARCHITECT/ENGINEER. OBTAIN UL INSPECTION CERTIFICATE AND THIRD PARTY LP MASTER CERTIFICATION AT POINT OF SUBSTANTIAL COMPLETION. THE BASE CIVIL ENGINEER SHALL ALSO INSPECT AND APPROVE THE LP SYSTEM AND OVERALL GROUNDING SYSTEM PER AFI 32-1065.
3. THE COMPLETE LIGHTNING PROTECTION SYSTEM SHALL HAVE NO MORE THAN 10 ohms OF RESISTANCE AS MEASURED BY THE IEEE "FALL OF POTENTIAL METHOD".
4. ALL METAL BODIES OF INDUCTANCE SITUATED WITHIN 6'-0" OF A LIGHTNING PROTECTION CONDUCTOR OR BONDED METAL BODY SHALL BE INTERCONNECTED TO THE LIGHTNING PROTECTION SYSTEM.
5. AIR TERMINALS SHALL BE PLACED AT MAXIMUM SPACING OF EVERY 24' AROUND THE ROOF PERIMETER OR RIDGE AND WITHIN 24' OF THE OUTSIDE EDGES.
6. BOND ALL METALLIC PIPES ENTERING THE STRUCTURE TO THE NEAREST DOWNLEAD, GROUND ROD, OR GROUND LOOP CABLE.
7. NO BEND OF CONDUCTOR SHALL FORM A FINAL INCLUDED ANGLE OF LESS THAN 90 DEGREES NOR SHALL IT HAVE A RADIUS BEND OF LESS THAN 8'.
8. CONDUCTORS SHALL INTERCONNECT ALL AIR TERMINALS AND FORM A TWO WAY PATH TO GROUND HORIZONTALLY OR DOWNWARD TO CONNECTIONS TO GROUND TERMINALS.
9. ALL LIGHTNING PROTECTION CONDUCTORS SHALL BE FASTENED TO THE STRUCTURE UPON WHICH THEY ARE PLACED AT MAXIMUM INTERVALS OF 36" ON CENTER.
10. CONNECTIONS TO GROUND RODS OR GROUND LOOP CABLE SHALL BE MADE AT A POINT NOT LESS THAN 18" BELOW GRADE AND 24" AWAY FROM FOUNDATION WALL. ACTUAL SITE CONDITIONS MAY NECESSITATE SLIGHT ALTERATIONS OF AIR TERMINAL AND GROUND LOCATIONS.
11. BARE COPPER LIGHTNING PROTECTION MATERIAL SHALL NOT BE INSTALLED ON ALUMINUM MATERIAL AND VICE VERSA. ALUMINUM LIGHTNING PROTECTION MATERIALS SHALL NOT BE INSTALLED ON COPPER MATERIALS.
12. ALL ELECTRICAL AND TELEPHONE SERVICE ENTRANCE GROUNDS SHALL BE INTERCONNECTED TO THE LIGHTNING PROTECTION SYSTEM. THE WATER SERVICE ENTRANCE PIPING SHALL ALSO BE CONNECTED TO THE LIGHTNING PROTECTION SYSTEM TO CREATE A SINGLE POTENTIAL TO GROUND.
13. REFER TO SHEET EP501 FOR LIGHTNING PROTECTION DETAILS.

[illegible]

DESIGNED BY: SCD	ISSUE DATE: APRIL 9, 2021
DRAWN BY: J.L.H	SOLICITATION NO.: FA667520R0008
CHECKED BY: SCD	CONTRACT NO.: FA667520F0008
SUBMITTED BY: LAD	
SIZE: 1/8" x 1/2" x 1/4"	ANSI: D

Air Force Reserve Command Department
301 ST CONF / LOC
1776 CARLSWELL AVE
NIA C-1000, FT. CARLISLE, KY

NAVAL AIR STATION, JRB FORT WORTH, TX
F-35 SUNSHADES, LIGHTING, AND LIGHTNING PROTECTION

ELECTRICAL FLOOR PLAN - LIGHTNING
PROTECTION AND GROUNDING - 67° DEGREE
NORTH

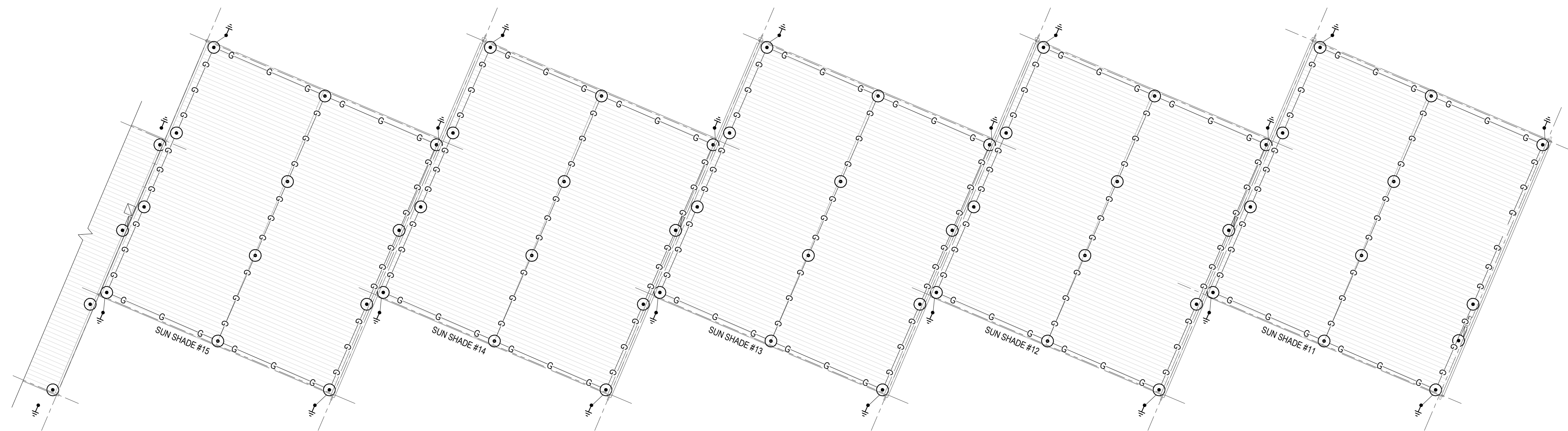
SHEET ID
EP104



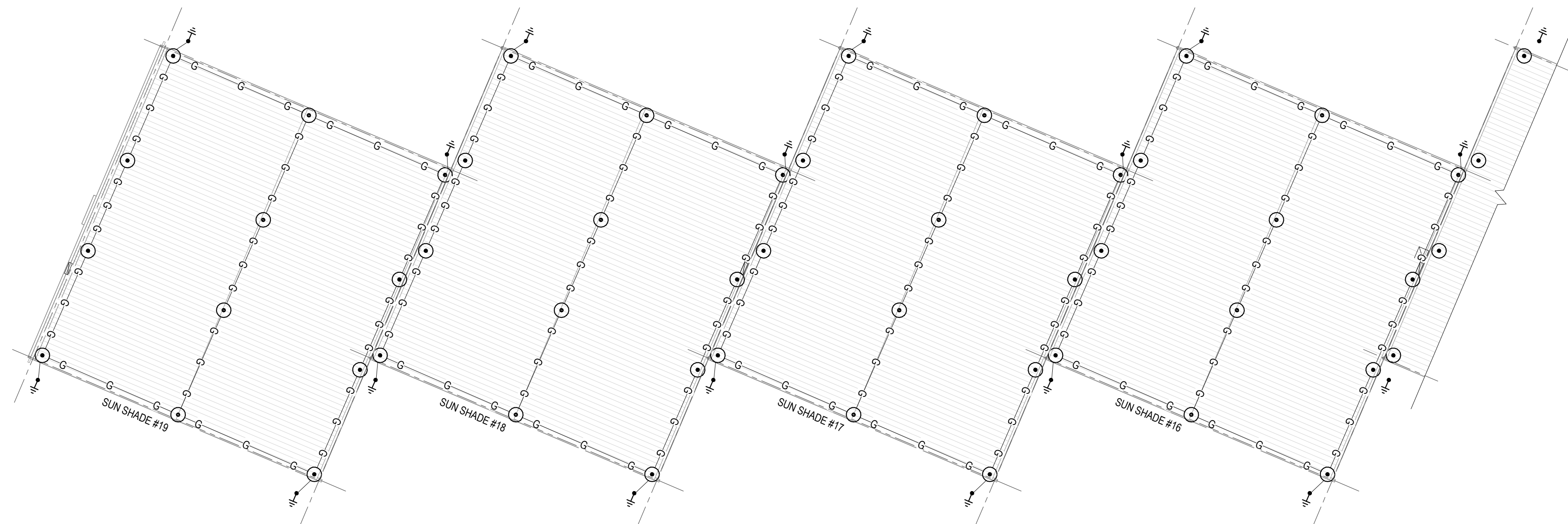
0 8' 16' 3'

SCALE : 1/16" = 1'-0"





C1 ELECTRICAL FLOOR PLAN - LIGHTNING AND GROUNDING - SUN SHADE #11 TO #15
SCALE: 1/16" = 1'-0"



A1 ELECTRICAL FLOOR PLAN - LIGHTNING AND GROUNDING - SUN SHADE #16 TO #19
SCALE: 1/16" = 1'-0"

- ## LIGHTNING PROTECTION (LP) NOTES

1. THE DESIGN AND INSTALLATION DETAILS SHOWN SHALL BE USED ONLY AS GUIDANCE AND NOT CONSTRUED AS FINAL DESIGN DOCUMENTS. PROVIDE LIGHTNING PROTECTION (LP) SYSTEM IN ACCORDANCE WITH ALL NFPA 780 REQUIREMENTS. THE FINAL DESIGN SHALL MEET THE REQUIREMENTS FOR RECEIPT OF AN UNDERWRITERS LABORATORIES (UL) 96A INSPECTION CERTIFICATE.
2. COMPLETE DESIGN, SPECIFICATIONS AND FABRICATION SHOP DRAWINGS SHALL BE SUBMITTED FOR REVIEW AND APPROVAL BY THE ARCHITECT/ENGINEER. OBTAIN UL INSPECTION CERTIFICATE AND THIRD PARTY LP MASTER CERTIFICATION AT POINT OF SUBSTANTIAL COMPLETION. THE BASE CIVIL ENGINEER SHALL ALSO INSPECT AND APPROVE THE LP SYSTEM AND OVERALL GROUNDING SYSTEM PER AF1 32-1065.
3. THE COMPLETE LIGHTNING PROTECTION SYSTEM SHALL HAVE NO MORE THAN 10 ohms OF RESISTANCE AS MEASURED BY THE IEEE "FALL OF POTENTIAL METHOD".
4. ALL METAL BODIES OF INDUCTANCE SITUATED WITHIN 6'-0" OF THE LIGHTNING PROTECTION CONDUCTOR OR BONDED METAL BODY SHALL BE INTERCONNECTED TO THE LIGHTNING PROTECTION SYSTEM.
5. AIR TERMINALS SHALL BE PLACED AT MAXIMUM SPACING OF EVERY 25' AROUND THE ROOF PERIMETER OR RIDGE AND WITHIN 24" OF THE OUTSIDE EDGES.
6. BOND ALL METALLIC PIPES ENTERING THE STRUCTURE TO THE NEAREST DOWNLEAD, GROUND ROD, OR GROUND LOOP CABLE.
7. NO BEND OF CONDUCTOR SHALL FORM A FINAL INCLUDED ANGLE OF LESS THAN 90 DEGREES NOR SHALL IT HAVE A RADIUS BEND OF LESS THAN 8".
8. CONDUCTORS SHALL INTERCONNECT ALL AIR TERMINALS AND FORM A TWO WAY PATH TO GROUND HORIZONTALLY OR DOWNWARD TO CONNECTIONS TO GROUND TERMINALS.
9. ALL LIGHTNING PROTECTION CONDUCTORS SHALL BE FASTENED TO THE STRUCTURE UPON WHICH THEY ARE PLACED AT MAXIMUM INTERVALS OF 36" ON CENTER.
10. CONNECTIONS TO GROUND RODS OR GROUND LOOP CABLE SHALL BE MADE AT A POINT NOT LESS THAN 18" BELOW GRADE AND 24" AWAY FROM FOUNDATION WALL. ACTUAL SITE CONDITIONS MAY NECESSITATE SLIGHT ALTERATIONS OF AIR TERMINAL AND GROUND LOCATIONS.
11. BARE COPPER LIGHTNING PROTECTION MATERIAL SHALL NOT BE INSTALLED ON ALUMINUM MATERIAL AND VICE VERSA, ALUMINUM LIGHTNING PROTECTION MATERIALS SHALL NOT BE INSTALLED ON COPPER MATERIALS.
12. ALL ELECTRICAL AND TELEPHONE SERVICE ENTRANCE GROUNDS SHALL BE INTERCONNECTED TO THE LIGHTNINGS PROTECTION SYSTEM. THE WATER SERVICE ENTRANCE PIPING SHALL ALSO BE CONNECTED TO THE LIGHTNING PROTECTION SYSTEM TO CREATE A SINGLE POTENTIAL TO GROUND.
13. REFER TO SHEET EPS01 FOR LIGHTNING PROTECTION DETAILS.

[illegible]

DESIGNED BY: SCD	ISSUE DATE: APRIL 9, 2021
DRAWN BY: JLH	SOLICITATION NO.: FA667520R0008
CHECKED BY: SCD	CONTRACT NO.: FA667520F0008
SUBMITTED BY: LAD	
SIZE: ANSI D	

Air Force Reserve Command Department
301 ST CONF / LGC
1776 CARLSWELL AVE.
NASC, 1000 E. CHANDLER AV.

NAVAL AIR STATION JRB FORT WORTH, TX.
E-35 SUNSHADES, LIGHTING, AND LIGHTNING PROTECTION

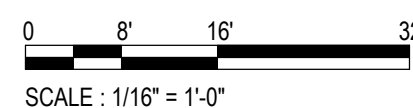
ELECTRICAL FLOOR PLAN - LIGHTNING
PROTECTION AND GROUNDING - 67 DEGREE
SOUTH

SHEET ID
EP105



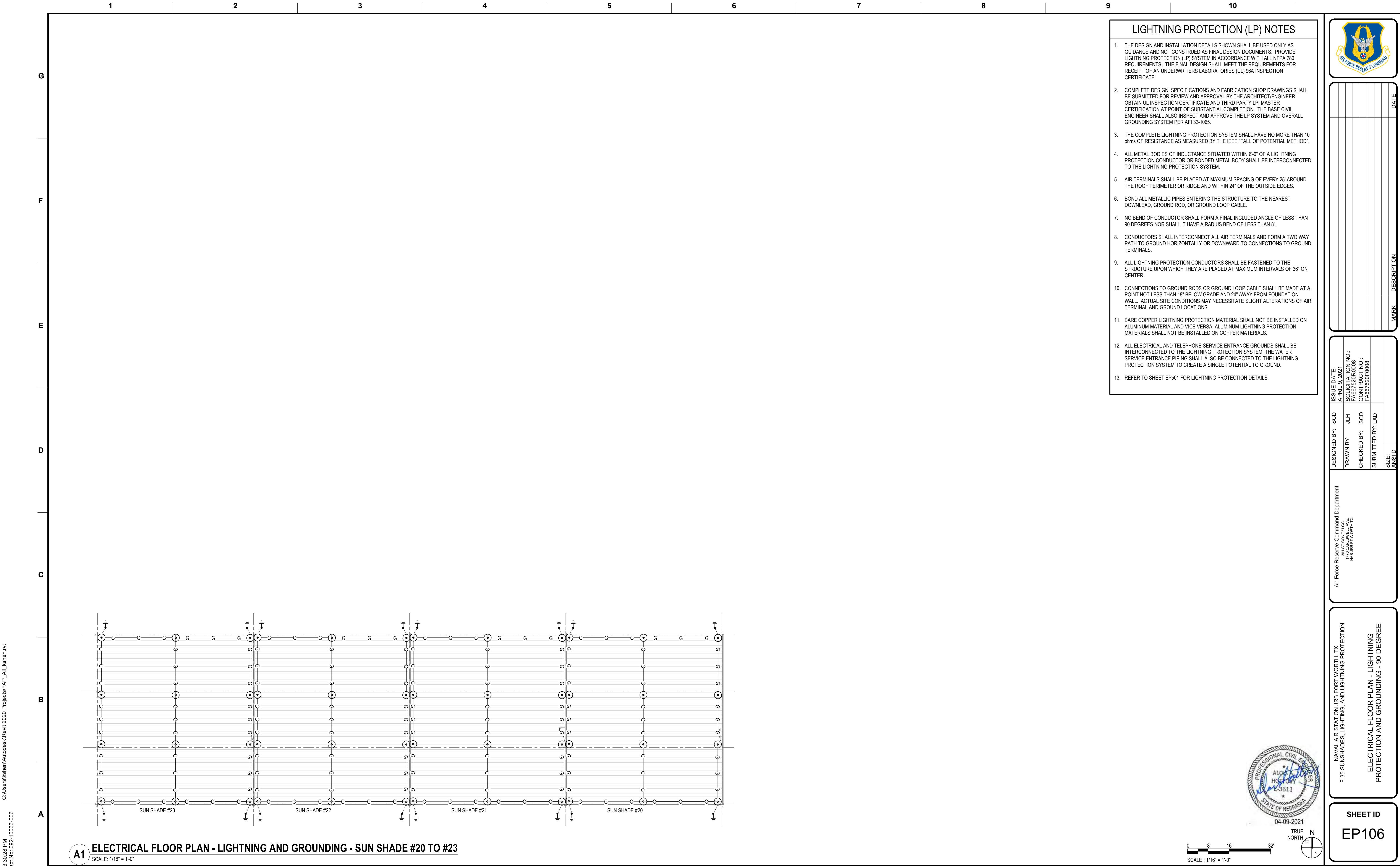
04-09-202

TRUE N

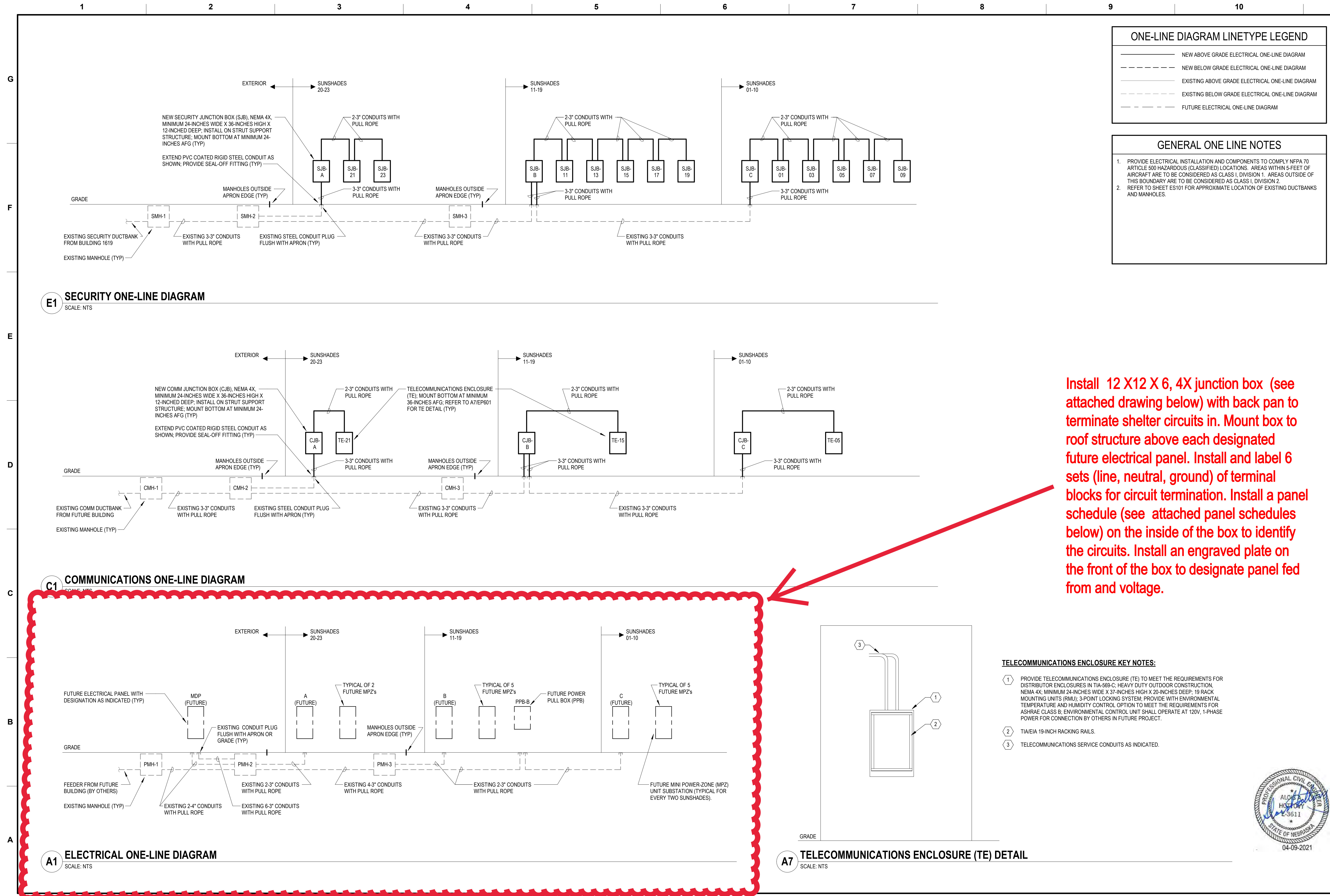


SCALE : 1/16" = 1'-0"

C:\Users\kshen\Autodesk\Revit 2020 Projects\FAP_All_kshen.rvt
4/7/2021 3:30:28 PM
LAD Project No: 092-10065-006



C:\Users\kshen\Autodesk\Revit 2020 Projects\FAP_All_1shen.rvt
4/7/2021 3:30:29 PM
LAD Project No: 092-10065-006



DATE
DESCRIPTION
MARK

DESIGNED BY: SCD	ISSUE DATE: APRIL 9, 2021
DRAWN BY: JLH	SOLICITATION NO.: FA687520R0008
CHECKED BY: SCD	CONTRACT NO.: FA687520F0008
SUBMITTED BY: LAD	SIZE: ANS/D
Air Force Reserve Command Department 1776 GARDENWELL AVE MCGUIRE AFB, TX 78113	

NAVAL AIR STATION JBH FORT WORTH, TX F-35 SUNSHADES, LIGHTING, AND LIGHTNING PROTECTION
ELECTRICAL ONE LINE DIAGRAMS

SHEET ID EP601



CORRECTED FINAL

CUI

BRANCH PANEL : B

MAINS TYPE: MCB

MAIN BREAKER SIZE: 100 A

PHASE BUS RATING: 100 A

NEUTRAL BUS RATING: 100 A

VOLTS: 277/480 WYE

PHASES: 3

WIRES: 4

A.I.C. RATING: 18000 PRIMARY MAIN

LOCATION:

SUPPLY FROM: MDP

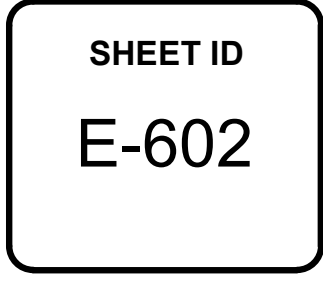
MOUNTING: SURFACE

ENCLOSURE: NEMA 4X

NOTES:

LOAD DESCRIPTION	BKR	P	CKT NO.	A		B		C		CKT NO.	P	BKR	LOAD DESCRIPTION
LIGHTING FLOODS	20	1	1	1245	1140					2	1	20	LIGHTING OVERHEAD
LIGHTING FLOODS	20	1	3			996	912			4	1	20	LIGHTING OVERHEAD
LIGHTING FLOODS	20	1	5					996	1245	6	1	20	LIGHTING FLOODS
SPARE	20	1	7	0	0					8	1	20	SPARE
SPARE	20	1	9			0	0			10	1	20	SPARE
SPARE	20	1	11					0	0	12	1	20	SPARE
MPZ-11	30	2	13	360	0					14	--	--	SPACE
			15			360	0			16	--	--	SPACE
MPZ-13	30	2	17					360	0	18	--	--	SPACE
			19	360	0					20	--	--	SPACE
MPZ-15	30	2	21			720	0			22	--	--	SPACE
			23					860	0	24	--	--	SPACE
MPZ-17	30	2	25	360	0					26	--	--	SPACE
			27			360	0			28	--	--	SPACE
MPZ-19	30	2	29					360	0	30	--	--	SPACE
			31	360	0					32			
SPARE	30	2	33			0	0			34	3	30	SPD
			35					0	0	36			
TOTAL LOAD:				3825.00 VA		3348.00 VA		3821.00 VA					
TOTAL AMPS:				14.1 A		12.1 A		14.1 A					

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND...	PANEL TOTALS
LIGHTING	6534 VA	125.00%	8168 VA	TOTAL CONNECTED LOAD: 111.0 kVA
Motor	500 VA	125.00%	625 VA	TOTAL CONNECTED CURRENT: 13.2 A
RECEPTACLES	3960 VA	100.00%	3960 VA	TOTAL ESTIMATED DEMAND LOAD: 12.8 kVA
				TOTAL ESTIMATED DEMAND CURRENT: 15.3 A
				FUTURE LOAD GROWTH: 20.00%
				MINIMUM PANEL RATING (AMPS): 18 A

[illegible]

CORRECTED FINAL CUI

BRANCH PANEL : MPZ-03

MAINS TYPE: MCB

MAIN BREAKER SIZE: 60 A

PHASE BUS RATING: 60 A

NEUTRAL BUS RATING: 60 A

VOLTS: 120/240 SINGLE

PHASES: 1

WIRES: 3

A.I.C. RATING: 18000 PRIMARY MAIN

LOCATION:

SUPPLY FROM: XFMR-03

MOUNTING: SURFACE

ENCLOSURE: NEMA 4X

NOTES:

LOAD DESCRIPTION	BKR	P	CKT NO.	A		B		CKT NO.	P	BKR	LOAD DESCRIPTION
RECEPTACLES	20	1	1	360	0			2	1	20	SPARE
RECEPTACLES	20	1	3			360	0	4	1	20	SPARE
SPARE	20	1	5	0	0			6	1	20	SPARE
SPARE	20	1	7			0	0	8	1	20	SPARE
SPARE	20	1	9	0	0			10	1	20	SPARE
TOTAL LOAD:				360.00 VA		360.00 VA					
TOTAL AMPS:				3.0 A		3.0 A					

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND...	PANEL TOTALS
RECEPTACLES	720 VA	100.00%	720 VA	TOTAL CONNECTED LOAD: 0.7 kVA
				TOTAL CONNECTED CURRENT: 3.0 A
				TOTAL ESTIMATED DEMAND LOAD: 0.7 kVA
				TOTAL ESTIMATED DEMAND CURRENT: 3.0 A
				FUTURE LOAD GROWTH: 20.00%
				MINIMUM PANEL RATING (AMPS): 4 A

BRANCH PANEL : MPZ-07

MAINS TYPE: MCB

MAIN BREAKER SIZE: 60 A

PHASE BUS RATING: 60 A

NEUTRAL BUS RATING: 60 A

VOLTS: 120/240 SINGLE

PHASES: 1

WIRES: 3

A.I.C. RATING: 18000 PRIMARY MAIN

LOCATION:

SUPPLY FROM: XFMR-07

MOUNTING: SURFACE

ENCLOSURE: NEMA 4X

NOTES:

LOAD DESCRIPTION	BKR	P	CKT NO.	A		B		CKT NO.	P	BKR	LOAD DESCRIPTION
RECEPTACLES	20	1	1	360	0			2	1	20	SPARE
RECEPTACLES	20	1	3			360	0	4	1	20	SPARE
SPARE	20	1	5	0	0			6	1	20	SPARE
SPARE	20	1	7			0	0	8	1	20	SPARE
SPARE	20	1	9	0	0			10	1	20	SPARE
TOTAL LOAD:				360.00 VA		360.00 VA					
TOTAL AMPS:				3.0 A		3.0 A					

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND...	PANEL TOTALS
RECEPTACLES	720 VA	100.00%	720 VA	TOTAL CONNECTED LOAD: 0.7 kVA
				TOTAL CONNECTED CURRENT: 3.0 A
				TOTAL ESTIMATED DEMAND LOAD: 0.7 kVA
				TOTAL ESTIMATED DEMAND CURRENT: 3.0 A
				FUTURE LOAD GROWTH: 20.00%
				MINIMUM PANEL RATING (AMPS): 4 A

BRANCH PANEL : MPZ-11

MAINS TYPE: MCB

MAIN BREAKER SIZE: 60 A

PHASE BUS RATING: 60 A

NEUTRAL BUS RATING: 60 A

VOLTS: 120/240 SINGLE

PHASES: 1

WIRES: 3

A.I.C. RATING: 18000 PRIMARY MAIN

LOCATION:

SUPPLY FROM: XFMR-11

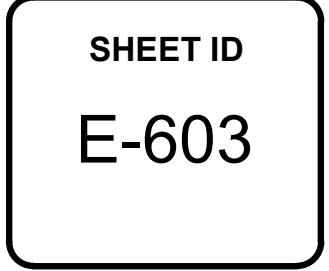
MOUNTING: SURFACE

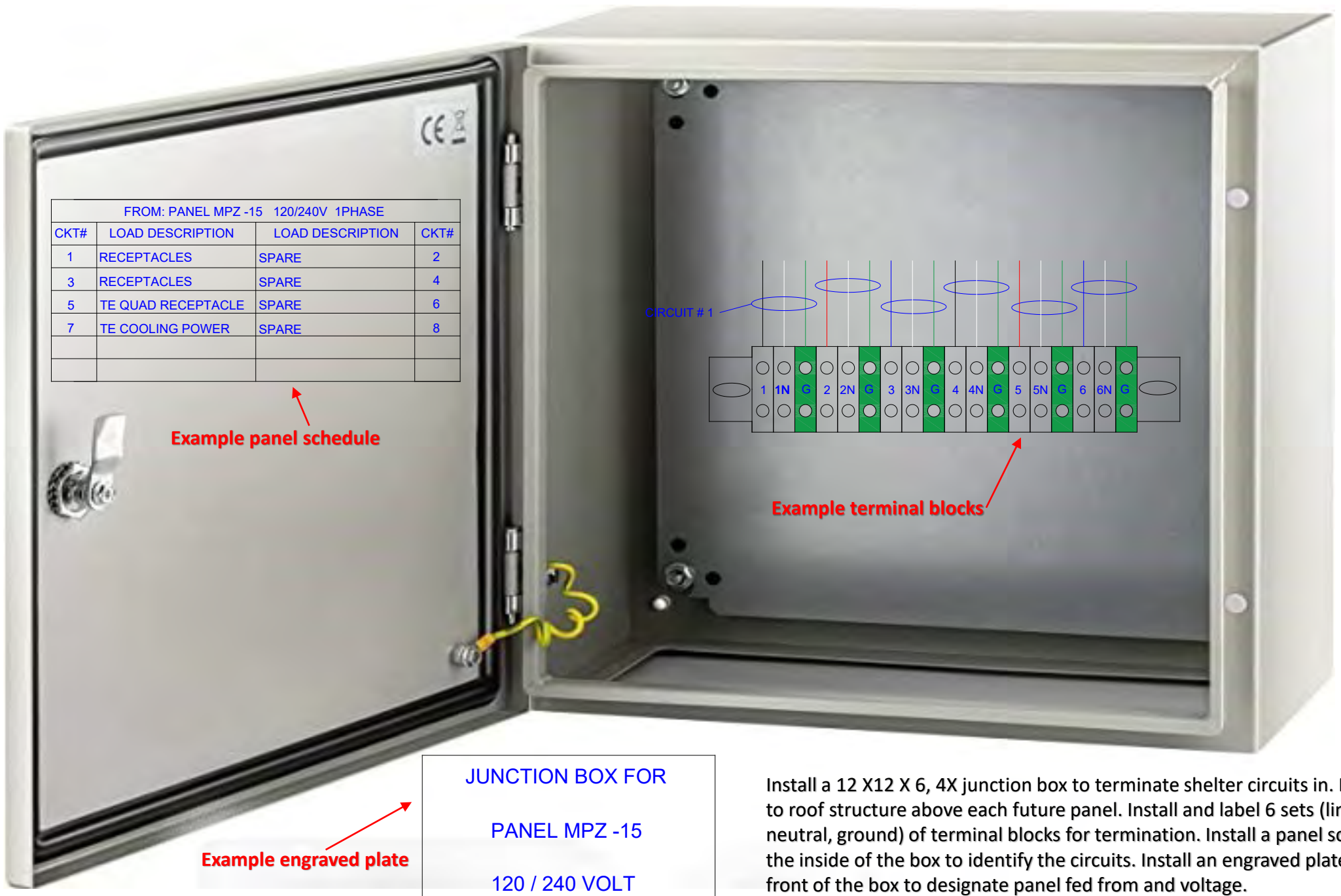
ENCLOSURE: NEMA 4X

NOTES:

LOAD DESCRIPTION	BKR	P	CKT NO.	A		B		CKT NO.	P	BKR	LOAD DESCRIPTION
RECEPTACLES	20	1	1	360	0			2	1	20	SPARE
RECEPTACLES	20	1	3			360	0	4	1	20	SPARE
SPARE	20	1	5	0	0			6	1	20	SPARE
SPARE	20	1	7			0	0	8	1	20	SPARE
SPARE	20	1	9	0	0			10	1	20	SPARE
TOTAL LOAD:				360.00 VA		360.00 VA					
TOTAL AMPS:				3.0 A		3.0 A					

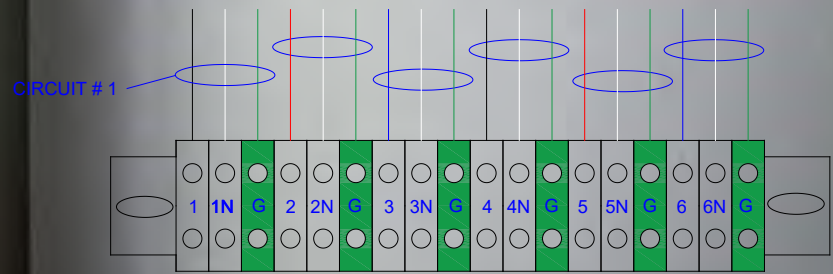
LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND...	PANEL TOTALS
RECEPTACLES	720 VA	100.00%	720 VA	TOTAL CONNECTED LOAD: 0.7 kVA
				TOTAL CONNECTED CURRENT: 3.0 A
				TOTAL ESTIMATED DEMAND LOAD: 0.7 kVA
				TOTAL ESTIMATED DEMAND CURRENT: 3.0 A
				FUTURE LOAD GROWTH: 20.00%
				MINIMUM PANEL RATING (AMPS): 4 A





FROM: PANEL MPZ -15 120/240V 1PHASE			
CKT#	LOAD DESCRIPTION	LOAD DESCRIPTION	CKT#
1	RECEPTACLES	SPARE	2
3	RECEPTACLES	SPARE	4
5	TE QUAD RECEPTACLE	SPARE	6
7	TE COOLING POWER	SPARE	8

Example panel schedule



Example terminal blocks

JUNCTION BOX FOR
PANEL MPZ -15
120 / 240 VOLT

Example engraved plate

Install a 12 X12 X 6, 4X junction box to terminate shelter circuits in. Mount box to roof structure above each future panel. Install and label 6 sets (line, neutral, ground) of terminal blocks for termination. Install a panel schedule on the inside of the box to identify the circuits. Install an engraved plate on the front of the box to designate panel fed from and voltage.