# APPENDIX – B

# MAPS, DRAWINGS, AND OTHER PROJECT SPECIFICS

# For

# REQUEST FOR PROPOSAL

# CONSTRUCT B15 & 29 REPLACEMENT/CONSOLIDATION

# TYNDALL AFB FLORIDA

# FOR PROJECT XLWU204016

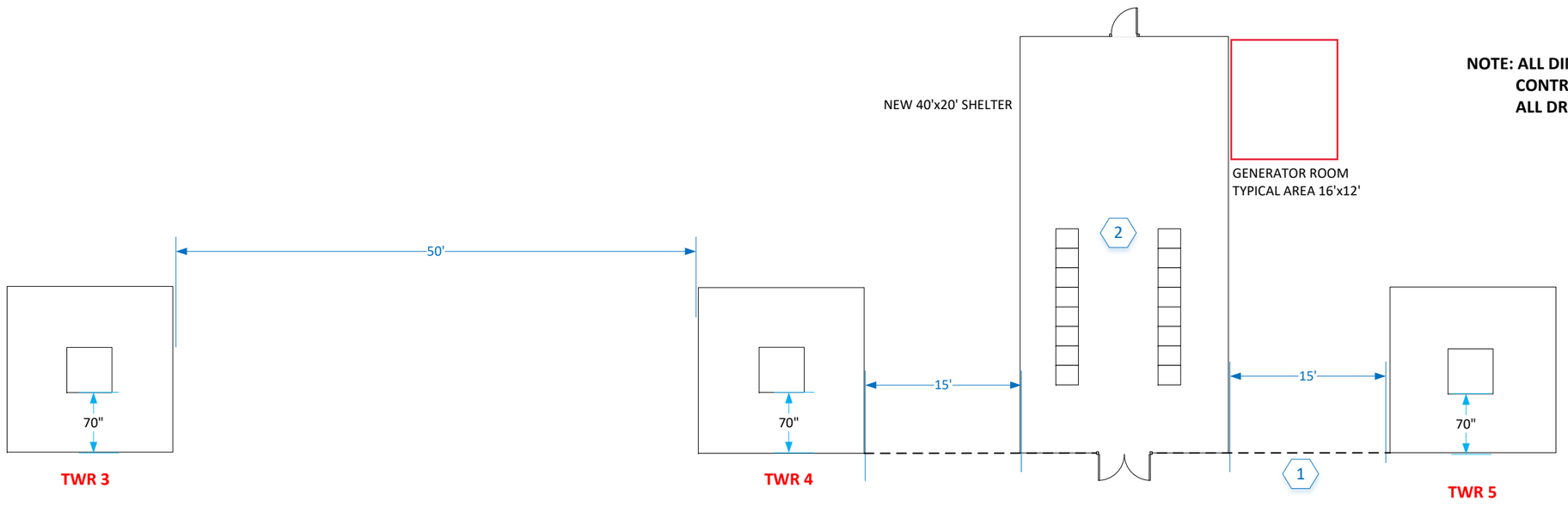
Project Site
Bldg 15
Tyndall AFB
98
98
US Hwy 98

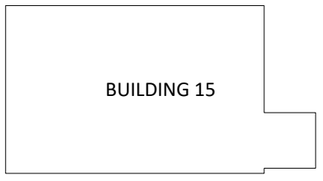
## KEYNOTES

1. ALIGN FRONT EDGE OF SHELTER WITH FOUNDATION OF TOWERS

2. CENTER SHELTER/PAD BETWEEN TOWERS 4 & 5

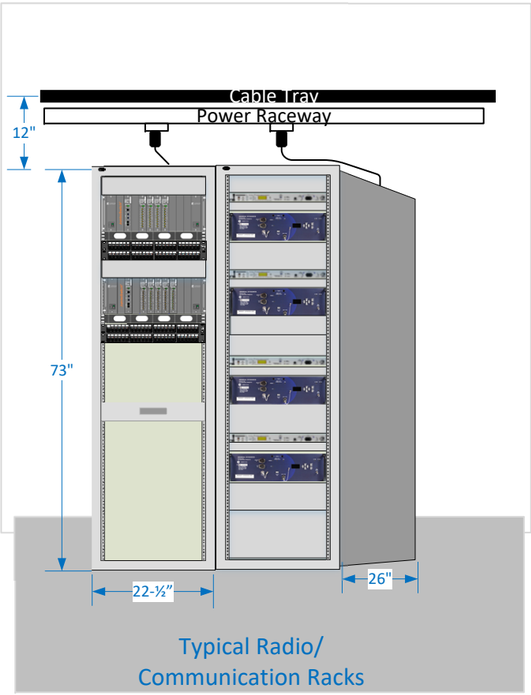
**NOTE: ALL DIMENSIONS/MEASUREMENTS ARE APPROXIMATE. CONTRACTOR SHALL FIELD VERIFY MEASUREMNTS FOR ALL DRAWINGS (SHEETS 1 TO 4).**





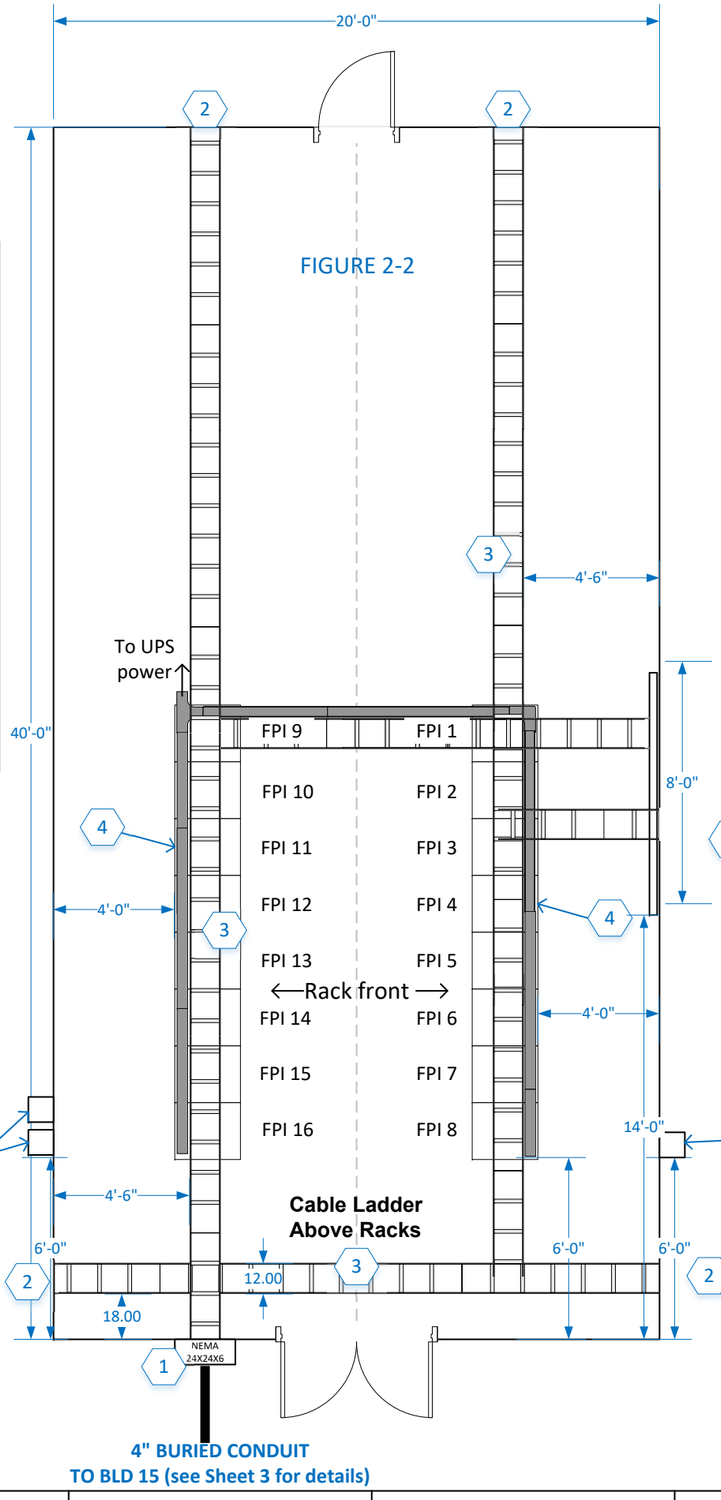

| | |
|---|---|
| | PSA SKETCH 1 |
| DRAWING NAME | GATR B15 CONSTRUCT NEW SHELTER |
| SHEET DESCRIPTION | SHELTER LOCATION |
| | CONSTRUCT B15_B29 GATR REPLACEMENT/CONSOLIDATION |
| PROJECT # | XLWU204016 |

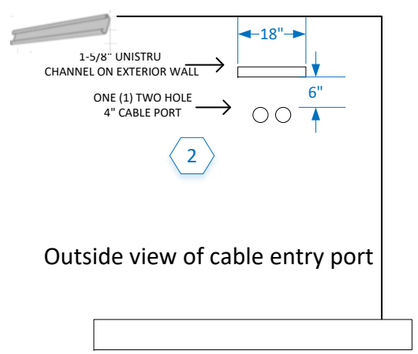
| SCALE | REV. | DATE | SHEET |
|---|---|---|---|
| 1: 150 | A | 7/14/2021 | 1 OF 4 |




Typical Radio/
Communication Racks

FIGURE 2-1




Outside view of cable entry port

FIGURE 2-3

Power Junction box
mounted on wall of
shelter for tower 5

FIGURE 2-4

## NOTES

1. SIXTEEN RADIO/COMMUNICATON RACKS WILL BE INSTALLED BY OTHERS. (22.5" WIDE, 26“ DEEP, 73” TALL)

2. FORTY TWO ANTENNA CABLES WILL BE ROUTED FROM THREE ADJACENT TOWERS TO RADIO RACKS VIA EXTERNAL WAVEGUIDE BRIDGES INSTALLED BY OTHERS.

3. LIGHTING SHOULD BE LOCATED ABOVE AISLES RATHER THAN ABOVE CABINETS AND RACKS.

## KEYNOTES

1. INSTALL ONE (1) 1-HOLE 4" CABLE ENTRY PORT ABOVE CABLE LADDER, PLACE ONE 24"x 24"x 6" NEMA BOX ON EXTERIOR, ROUTE 4" BURIED CONDUIT TO BUILDING 15.

2. INSTALL ONE (1) 2-HOLE 4" CABLE ENTRY PORT ABOVE CABLE LADDER. INSTALL 18" LENGTH OF 1-5/8"UNISTRUT CHANNEL SIX INCHES ABOVE EACH EXTERIOR PORT

3. INSTALL 12" WIDE CABLE LADDER ABOVE EQUIPMENT RACKS WITH ACCESS TO CABLE ENTRY PORTS AND FIRE RATED DEMARCATION BOARD

4. INSTALL POWER RACEWAY ABOVE RACKS WITH L5-20 RECEPTICALS FOR EACH RACK (16 TOTAL)

5. INSTALL 4' X 8' FIRE RATED DEMARCATION BOARD ON WALL

6. PROPOSED LOCATIONS FOR TOWER OBSTRUCTION LIGHTS POWER SAFETY SHUTOFF BOXES, MOUNTED ON EXTERIOR WALL OF SHELTER (THREE LOCATIONS). EACH WILL REQUIRE 20 AMP CIRCUIT CONNECTED TO SHELTER MAIN POWER PANEL

PSA SKETCH 1

DRAWING NAME
GATR B15 CONSTRUCT NEW SHELTER

SHEET DESCRIPTION
SHELTER CABLE LADDER & EXTERIOR PORTS, RACK OUTLETS AND DEMARC BOARD

CONSTRUCT B15_B29 GATR REPLACEMENT/CONSOLIDATION

PROJECT # XLWU204016

| SCALE | 1: 150 | REV. | A | DATE | 7/14/2021 | SHEET | 2 OF 4 |
|---|---|---|---|---|---|---|---|

44'-6"

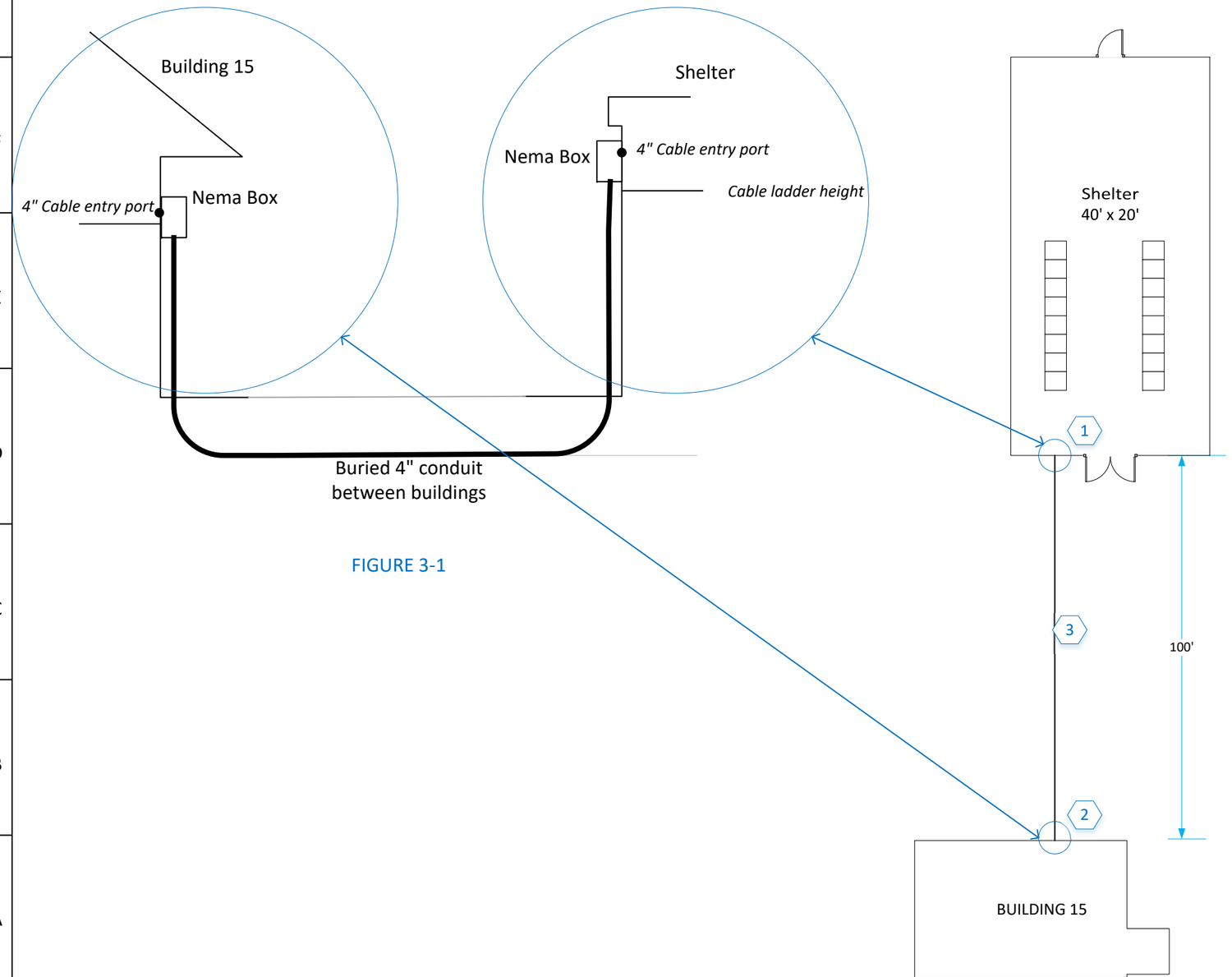



FIGURE 3-1

## NOTES

1. SHELTER REQUIRES MININUMN OF 4 STRANDS OF SINGLE MODE FIBER TO CONNECT TO OTHER RAWS FACILITIES. EXISTING 12 STRAND FIBER OPTIC CABLE IN BUILDING 15 HAS 6 AVAILABLE STRANDS. INSTALLATION OF THIS CONDUIT WILL ALLOW CONNECTION TO FIBER BACKBONE

## KEYNOTES

1. SHELTER: INSTALL ONE (1) 1-HOLE 4" CABLE ENTRY PORT ABOVE CABLE LADDER, PLACE ONE 24"x 24"x 6" NEMA BOX ON EXTERIOR, ROUTE 4" CONDUIT BURIED TO BUILDING 15.
2. BUILDING 15: INSTALL ONE 24"x 24"x 6" NEMA BOX ON EXTERIOR WALL OF BUILDING 15 WITH 4" CABLE PORT INTO BUILDING 15. HEIGHT OF BOX SHOULD BE AT INTERIOR CABLE LADDER LEVEL
3. CONNECT BOTH NEMA BOXES WITH BURIED 4" CONDUIT (APPROXIMANTLY 100 FEET)

PSA SKETCH 1

DRAWING NAME
GATR B15 CONSTRUCT NEW SHELTER

SHEET DESCRIPTION
SHELTER FIBER OPTIC CABLE CONDUIT

CONSTRUCT B15_B29 GATR REPLACEMENT/CONSOLIDATION

PROJECT # XLWU204016

| SCALE | REV. | DATE | SHEET |
|---|---|---|---|
| 1: 150 | A | 7/14/2021 | 3 OF 4 |

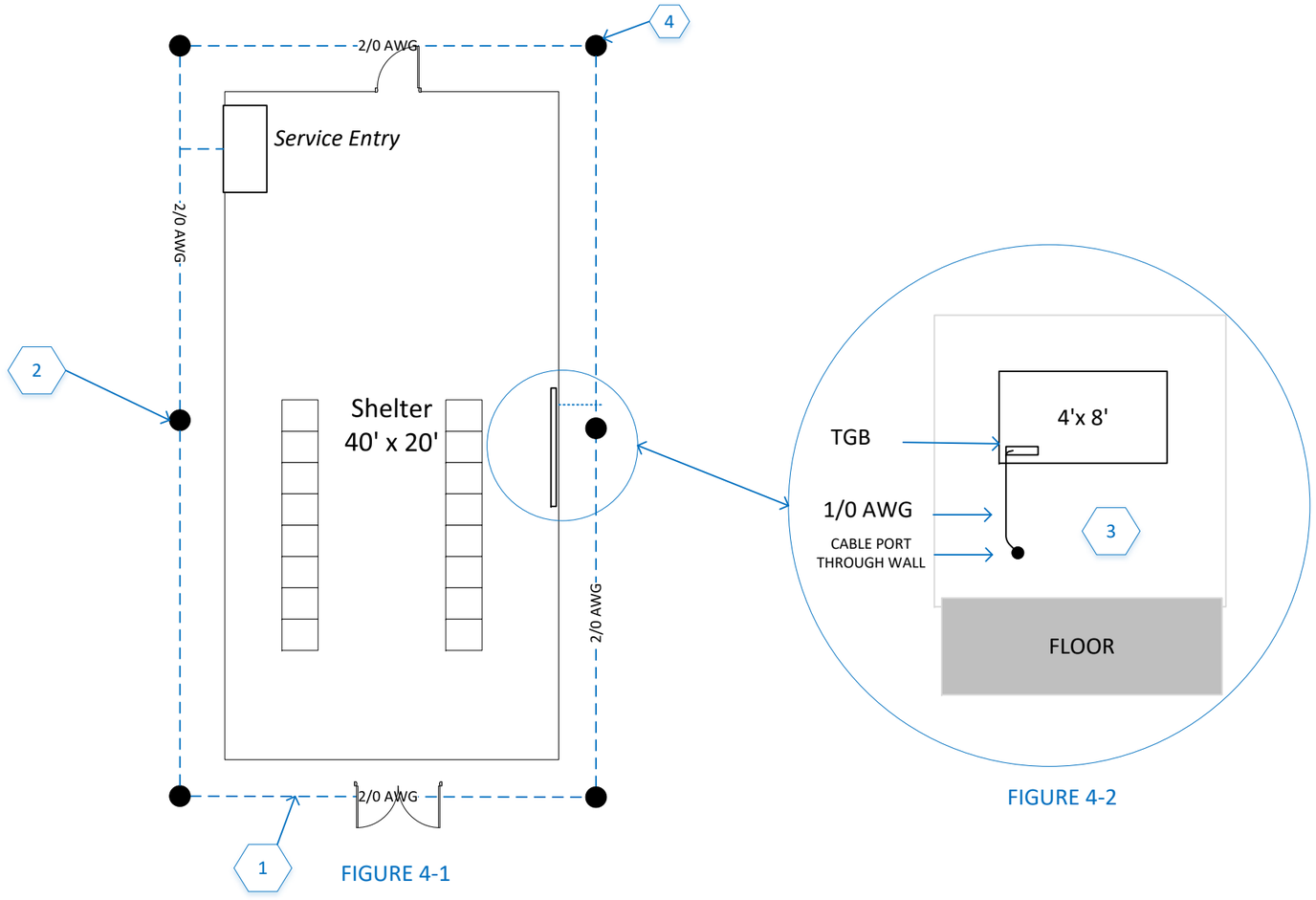



FIGURE 4-1




FIGURE 4-2

## NOTES

1. EES SHOULD BE CONNECTED TO ELECTRICAL SERVICE ENTRANCE FOR SHELTER IAW TIA-607-D, PARAGRAPH 7.5.3

2. THE GROUNDING ELECTRODE SYSTEM FOR SITES THAT ARE CRITICAL IN NATURE (E.G., PUBLIC SAFETY FACILITIES, MILITARY INSTALLATIONS, DATA CENTERS, WEB HOSTING FACILITIES, CENTRAL OFFICES) SHALL BE DESIGNED TO HAVE A RESISTANCE OF 10 OHMS OR LESS, PREFERABLY 5 OHMS OR LESS. REF: TIA-607-D, PARAGRAPH 8.1.2

## KEYNOTES

1. 2/0 AWG STRANDED BARE COPPER CONDUCTOR BURIED 18" TO 24" DEEP & LOCATED 2' TO 4' FROM FOOTING

2. 10' X ¾" CU CLAD STEEL VERTICALLY DRIVEN GROUND ROD ELECTRODES WITH TOP DRIVEN TO 12" BELOW GROUND LEVEL

3. INSTALL TELECOMMUNICATIONS GROUND BAR (TGB) ON BACKBOARD AND BOND TGB TO EES USING 1/0 AWG.

4. ALL CONNECTIONS FOR EES WILL BE LISTED EXOTHERMIC WELDS OR UL LISTED COMPRESSION CONNECTIONS

PSA SKETCH 1

DRAWING NAME
GATR B15 CONSTRUCT NEW SHELTER

SHEET DESCRIPTION
SHELTER EARTH ELECTRODE SUBSYSTEM (EES)

CONSTRUCT B15_B29 GATR REPLACEMENT/CONSOLIDATION

| PROJECT # | XLWU204016 | | | | |
|---|---|---|---|---|---|
| SCALE | 1: 150 | REV. | A | DATE | 7/14/2021 | SHEET | 4 OF 4 |