

1

SYMBOL

TELECOMMUNICATIONS DESCRIPTION

APPLICABLE TO ALL OUTLETS LISTED BELOW:

TERMINATIONS TO BE PERFORMED USING PIN/PAIR ASSIGNMENTS IN ACCORDANCE WITH THE T568A PIN-OUT SEQUENCE USING 8-PIN 8 CONDUCTOR (8P8C) RJ45 TYPE CONNECTORS RATED FOR THE CATEGORY OF THE INSTALLED CABLE; COLOR TO MATCH THE U/UTP OUTER JACKET.

TELECOMMUNICATIONS OUTLETS, 8P8C RJ45 TYPE CONNECTOR ALL UTP CABLES TO HAVE GREEN PLENUM RATED OUTER JACKET

▼

STANDARD WORK AREA OUTLET, MOUNTED AT 18" AFF UON: FOUR (4) CATEGORY 6A UTP COPPER CABLES TO SERVING TR, TERMINATE ON RACK MOUNTED PATCH PANELS. SEE DETAILS FOR ADDITIONAL INFORMATION.

DDC

▼

DIRECT DIGITAL CONTROL (DDC) OUTLET, MOUNTED AT 18" AFF UON: TWO (2) CATEGORY 6A UTP COPPER CABLE TO SERVING TR, TERMINATE ON RACK MOUNTED PATCH PANELS. SEE DETAIL FOR ADDITIONAL INFORMATION.

W WP

▼

WALL MOUNTED TELEPHONE OUTLET, MOUNTED AT 48" AFF UON: ONE (1) CATEGORY 6A UTP COPPER CABLE TO SERVING TR, TERMINATE ON RACK MOUNTED PATCH PANELS. SEE DETAIL FOR ADDITIONAL INFORMATION.

TV

▼

CATV OUTLET, MOUNTED AT 72" AFF; TWO (2) CATEGORY 6A UTP COPPER CABLES AND ONE (1) RG-6 DUAL-SHIELD COAXIAL COPPER CABLES TO SERVING TR, TERMINATE CATEGORY 6 UTP CABLES ON RACK MOUNTED PATCH PANELS. TERMINATE RG-6 COAXIAL COPPER CABLE ON WALL AREA DESIGNATED FOR CATV.

M

▼

MULTI-USER TELECOM OUTLET ASSEMBLY (MUTOA), MOUNTED AT COUNTER HEIGHT; TWELVE (12) CATEGORY 6A UTP COPPER CABLES TO SERVICE TR, TERMINATE ON RACK MOUNTED PATCH PANELS. "C" DENOTES CLASSIFIED, "U" DENOTES UNCLASSIFIED.

WAP

▼

WIRELESS ACCESS POINT (WAP) OUTLET, MOUNTED TWO (2) CATEGORY-6A U/UTP OUTLETS), LOCATED 12" ABOVE DROPPED CEILING

▼

STANDARD WORK ARE OUTLET, FLOORBOX MOUNTED; FOUR (4) CATEGORY 6A UTP COPPER CABLES TO SERVING TR, TERMINATE ON RACK MOUNTED PATCH PANELS. COORDINATE WITH ELECTRICAL AND AUDIOVISUAL FOR FLOORBOX LOCATIONS.

S

▼

STANDARD WORK ARE OUTLET, SIPRNET, FOUR (4) CATEGORY 6A UTP COPPER CABLES, RED JACKET, TO SIM SERVER RM 304A; TERMINATE ON WALL MOUNTED RACK IN SIM SERVER RM 304A, INSTALL TO DESIGNATED WORK AREAS IN PDS, PER CNSSI 7003. A=SIPR, B=CACCTUS, C=MTWS

FA

▼

FIRE ALARM SYSTEM PHONE INTERFACE OUTLET, COORDINATE MOUNTING HEIGHT WITH FIRE ALARM EQUIPMENT INSTALLER: TWO (2) CATEGORY 6A UTP COPPER CABLE TO SERVING TR, TERMINATE ON RACK MOUNTED PATCH PANELS. SEE FACEPLATE DETAILS FOR ADDITIONAL INFORMATION.

S8

▼

STANDARD WORK ARE OUTLET, SIPRNET, SIX (6) CATEGORY 6A UTP COPPER CABLES, RED JACKET, TO SIM SERVER ROOM 304A; APPROPRIATE RACK IN SIM SERVER ROOM 304A. INSTALL TO DESIGNATED WORK AREAS IN PDS, PER CNSSI 7003; TWO (2) SIPR, TWO (2) CACCTUS, TWO (2) MTWS

T

▼

WALL MOUNTED SYNCHRONIZED CLOCK, MOUNTED AT 72" AFF MINIMUM; ONE (1) CATEGORY 6A UTP COPPER CABLES, GREEN JACKET, TO SIM SERVER ROOM 304A; TERMINATE IN CACCTUS NTP SERVER RACK

●

FLOORBOX LOCATION, TRAINING SIMULATION SYSTEM – UNCLASSIFIED; INSTALLED IN RAISED ACCESS FLOOR. INSTALL EIGHT (8) CATEGORY 6A UTP PLENUM-RATED, GREEN JACKET COPPER CABLES FROM TERMINATING RACK IN SIM SERVER ROOM TO FLOORBOX LOCATION, AND ONE (1) HDMI CABLE FROM FLOORBOX LOCATION TO AV EQUIPMENT IN EXECISE CONTROL ROOM. SEE DETAIL SHEET T-601 FOR TERMINATION DETAILS. SEE E-001 FOR ELECTRICAL INFORMATION

FB1

MULTISERVICE FLOOR BOX, SEE E-502 FOR MORE INFORMATION.

FB2

MULTISERVICE FLOOR BOX, SEE E-502 FOR MORE INFORMATION.

FO

FIBER OPTIC HANDHOLE (EXISTING)

☒

FLOORBOX LOCATION, TRAINING SIMULATION SYSTEM – UNCLASSIFIED; INSTALLED IN RAISED ACCESS FLOOR. INSTALL EIGHT (8) CATEGORY 6A UTP PLENUM-RATED, GREEN JACKET COPPER CABLES FROM TERMINATING RACK IN SIM SERVER ROOM TO FLOORBOX LOCATION. SEE DETAIL SHEET T-602 FOR TERMINATION DETAILS. SEE E-001 FOR ELECTRICAL INFORMATION.

田

FLOORBOX LOCATION, TRAINING SIMULATION SYSTEM – CLASSIFIED; INSTALLED IN RAISED ACCESS FLOOR. INSTALL EIGHT (8) CATEGORY 6A UTP PLENUM-RATED, RED JACKET COPPER CABLES FROM TERMINATING RACK IN SIM SERVER ROOM TO FLOORBOX LOCATION. SEE DETAIL SHEET T-602 FOR TERMINATION DETAILS. SEE E-001 FOR ELECTRICAL INFORMATION.

OTHER SYMBOLS:

PA

CEILING MOUNTED PA SYSTEM SPEAKER

PA

WALL MOUNTED PA SYSTEM SPEAKER

TT

GROUNDING BUSBAR, TMGB OR TGB AS INDICATED ON PLANS

2

SYMBOL

TELECOMMUNICATIONS DESCRIPTION

SECURITY SYMBOLS:

IDS

INTRUSION DETECTION SYSTEM CONTROL PANEL

☒

WALL-MOUNTED PASSIVE INFRARED SENSOR (PIR)

☒

CEILING-MOUNTED PASSIVE INFRARED SENSOR (PIR)

—

HORIZONTAL CONDUIT RUN FROM TELECOMMUNICATION ROOMS TO RESPECTIVE AREAS AS INDICATED ON PLANS

CR

ACCESS CONTROL SYSTEM / INTRUSION DETECTION SYSTEM CARD READER

ES

ELECTRIC STRIKE

HSS

HIGH SECURITY BALANCED MAGNETIC SWITCH

KP

KEYPAD FOR ACCESS CONTROL SYSTEM / INTRUSION DETECTION SYSTEM

REX

REQUEST-TO-EXIT SENSOR

IDC

SINGLE DOOR TCP/IP ACS/IDS CONTROLLER MOUNTED ABOVE ACCESSIBLE CEILING ON SECURE SIDE OF DOOR WITH TWO CATEGORY-6 U/UTP CABLE TO MAIN ACS/IDS CONTROLLER PANEL

2DC

2-DOOR TCP/IP ACS/IDS CONTROLLER MOUNTED ABOVE ACCESSIBLE CEILING ON SECURE SIDE OF DOOR WITH TWO CATEGORY-6 U/UTP CABLE TO MAIN ACS/IDS CONTROLLER PANEL

4DC

4-DOOR TCP/IP ACS/IDS CONTROLLER MOUNTED ABOVE ACCESSIBLE CEILING ON SECURE SIDE OF DOOR WITH TWO CATEGORY-6 U/UTP CABLE TO MAIN ACS/IDS CONTROLLER PANEL

☒

SECURITY CAMERA, FIXED

PTZ

SECURITY CAMERA WITH PAN, TILT, ZOOM CAPABILITIES

TELECOMMUNICATIONS STANDARDS

TELECOMMUNICATIONS INSTALLATION MUST COMPLY WITH THE MOST CURRENT VERSION OF THE FOLLOWING STANDARDS:

AMERICANS WITH DISABILITIES ACT AND ARCHITECTURAL BARRIERS ACT ACCESSIBILITY GUIDELINES (UFAS/ADAAG), 2011

ANSI/TIA-568.0-D - GENERIC TELECOMMUNICATIONS CABLING FOR CUSTOMER PREMISES

ANSI/TIA-568.1-D - COMMERCIAL BUILDING TELECOMMUNICATIONS CABLING STANDARD

ANSI/TIA-568-C.2 - BALANCED TWISTED-PAIR TELECOMMUNICATIONS CABLING AND COMPONENTS STANDARD

ANSI/TIA-568.3-D - OPTICAL FIBER CABLING COMPONENTS STANDARD

ANSI/TIA-568.4-D - BROADBAND COAXIAL CABLING AND COMPONENTS STANDARD

ANSI/TIA-569-D - TELECOMMUNICATIONS PATHWAYS AND SPACES

ANSI/TIA-598-D - OPTICAL FIBER CABLE COLOR CODING.

ANSI/TIA-606-B - ADMINISTRATION STANDARD FOR COMMERCIAL TELECOMMUNICATIONS INFRASTRUCTURE

ANSI/TIA-607-C - COMMERCIAL BUILDING GROUNDING (EARTHING) AND BONDING REQUIREMENTS FOR TELECOMMUNICATIONS

ANSI/TIA-758-B - CUSTOMER-OWNED OUTSIDE PLANT TELECOMMUNICATIONS INFRASTRUCTURE STANDARD

ANSI/TIA-1152, 1152-A - REQUIREMENTS FOR FIELD TEST INSTRUMENTS AND MEASUREMENTS FOR BALANCED TWISTED-PAIR CABLING

TIA-526-7 - MEASUREMENT OF OPTICAL POWER LOSS OF INSTALLED SINGLE-MODE FIBER CABLE PLANT

TIA-526-14-C - OPTICAL POWER LOSS MEASUREMENTS OF INSTALLED MULTIMODE FIBER CABLE PLANT

NFPA 70 - NATIONAL ELECTRICAL CODE (NEC)

NFPA 75 - STANDARD FOR THE PROTECTION OF INFORMATION TECHNOLOGY EQUIPMENT

NFPA 76 - STANDARD FOR THE FIRE PROTECTION OF TELECOMMUNICATIONS FACILITIES

NFPA 780 - STANDARD FOR THE INSTALLATION OF LIGHTNING PROTECTION SYSTEMS

3

TELECOMMUNICATIONS STANDARDS CONT

UFC-3-580-01 CA - TELECOMMUNICATIONS INTERIOR INFRASTRUCTURE PLANNING AND DESIGN

UFC 4-020-04A - ELECTRONIC SECURITY SYSTEMS : SECURITY ENGINEERING

UFC 4-021-02 - ELECTRONIC SECURITY SYSTEMS

MIL-HDBK-232A - RED/BLACK ENGINEERING-INSTALLATION GUIDELINES

MIL-HDBK-419A – GROUNDING, BONDING, AND SHIELDING FOR ELECTRONIC EQUIPMENT AND FACILITIES

MIL-HDBK-1012/3 - TELECOMMUNICATIONS PREMISES DISTRIBUTION PLANNING, DESIGN, AND ESTIMATING

TM 5-853-4 - SECURITY ENGINEERING ELECTRONIC SECURITY SYSTEMS

IEC/TR 61602 ED. 1.0 B, 1996 - CONNECTORS USED IN THE FIELD OF AUDIO, VIDEO AND AUDIOVISUAL ENGINEERING

IEC 61883-1 ED. 3.0 EN, 2008 - CONSUMER AUDIO/VIDEO EQUIPMENT - DIGITAL INTERFACE - PART 1: GENERAL

IEC 61883-6 ED. 2.0 EN, 2005 - CONSUMER AUDIO/VIDEO EQUIPMENT - DIGITAL INTERFACE - PART 6: AUDIO AND MUSIC DATA TRANSMISSION PROTOCOL

IEC 61938 ED. 1.0 B, 1996 - AUDIO, VIDEO AND AUDIOVISUAL SYSTEMS - INTERCONNECTIONS AND MATCHING VALUES – PREFERRED MATCHING VALUES OF ANALOGUE SIGNALS

IEC 62075 ED. 1.0 B, 2008 - AUDIO/VIDEO, INFORMATION AND COMMUNICATION TECHNOLOGY EQUIPMENT – ENVIRONMENTALLY CONSCIOUS DESIGN

IEC 62087-BD ED. 2.0 EN, 2008 - METHODS OF MEASUREMENT FOR THE POWER CONSUMPTION OF AUDIO, VIDEO AND RELATED EQUIPMENT

NFPA 262 - STANDARD METHOD OF TEST FOR FLAME TRAVEL AND SMOKE OF WIRES AND CABLES FOR USE IN AIR-HANDLING SPACES

BICSI - BUILDING INDUSTRIES CONSULTING SERVICES INTERNATIONAL (TDMM), 13TH ED., 2014, TELECOMMUNICATIONS DISTRIBUTION METHODS MANUAL 13TH EDITION.

CAMP LEJEUNE GUIDE SPECIFICATIONS, (CLGS) 27 10 00

CAMP LEJEUNE GUIDE SPECIFICATIONS, (CLGS) 33 82 00

4

TELECOMMUNICATIONS GENERAL NOTES

1. THIS IS A STANDARD LEGEND SHEET. NOT ALL SYMBOLS OR ABBREVIATIONS MAY APPEAR ON DRAWINGS.

2. REFER TO DIVISIONS 26, 27, 28 AND 33 SPECIFICATIONS FOR TELECOMMUNICATION SYSTEM ITEMS.

3. MOUNTING DEVICES AND EQUIPMENT PER SPECIFICATIONS UNLESS OTHERWISE NOTED.

4. MOUNTING HEIGHTS, UNLESS OTHERWISE NOTED, ARE TO CENTER LINE OF DEVICE.

5. THE CONTRACTOR TO DETERMINE THE EXACT ROUTING OF RACEWAYS.

6. THE CONTRACTOR MUST COORDINATE ALL RACEWAY PENETRATIONS AND PROVIDE FIREPROOFING AS APPLICABLE.

7. THE MAXIMUM PERMANENT HORIZONTAL LINK DISTANCE MUST NOT EXCEED 295' AND THE MAXIMUM HORIZONTAL CHANNEL (LINK PLUS WORKSTATION CABLES AND PATCH CORDS) MUST BE 328'.

8. ALL HORIZONTAL VOICE AND DATA CABLING TO BE CATEGORY-6 INSTALLED IN A MINIMUM 1-1/4" CONDUIT UNLESS NOTED OTHERWISE FROM TELECOMM OUTLET LOCATIONS TO THE CABLE TRAY.

9. ALL HORIZONTAL AND BACKBONE CABLING MUST BE PLENUM RATED WITH THE EXCEPTION OF CABLING INSTALLED IN UNDERGROUND CONDUITS.

10. CATEGORY-6A CABLING TO BE TERMINATED ON 8-PIN, 8-CONDUCTOR (RJ-45) CONNECTORS USING PIN/PAIR ASSIGNMENTS IN ACCORDANCE WITH T568A PIN-OUT SEQUENCE.

11. CATEGORY-6A JACKS TO BE THE SAME COLOR AS CORRESPONDING HORIZONTAL VOICE AND DATA CABLING. CATEGORY-6 JACKS TO BE THE SAME MANUFACTURER AS THE PATCH PANELS.

12. PROVIDE CATEGORY-6, 8-PIN, 8-CONDUCTOR MODULAR TO 8-PIN, 8-CONDUCTOR MODULAR, PATCH CABLES IN QUANTITIES AND LENGTHS SUCH THAT ALL WORKSTATION CABLES ARE CONNECTED.

13. OPTICAL FIBER CABLES TO BE TERMINATED WITH DUPLEX SC-TYPE CONNECTORS.

14. ALL TELECOMMUNICATIONS RACKS AND SUPPORTING STRUCTURES (CABLE TRAYS, LADDER RACKS, CONDUITS, AND BASKETS) WITHIN A TR MUST BE BONDED TO THE TR SIGNAL GROUND RING OR BUS BAR (TGB OR TMGB) AS DEFINED IN ANSI/TIA-569-D AND IN ANSI/TIA-607-B.

15. CABLE TRAY TO BE WALL MOUNTED (PREFERABLE) OR TRAPEZE MOUNTED. CENTER HUNG CABLE TRAY IS NOT ALLOWED. CABLE TRAY MUST NOT BE USED TO SUPPORT OTHER ITEMS, CONDUIT, CABLE TRAY, PIPING OF UTILITIES. CABLE TRAY SUPPORTS TO BE PER NEMA STANDARDS PUBLICATION VE 2 - METAL CABLE TRAY INSTALLATION GUIDELINES.

16. PROVIDE ACCESS PANELS IN NON LAY-IN CEILINGS SUCH THAT NO POINT IN THE CABLE TRAY SYSTEM IS MORE THAN 20' FROM AN ACCESS POINT.

17. PROVIDE A MINIMUM OF 12" OF CLEARANCE ABOVE THE TOP OF CABLE TRAYS AND A MINIMUM OF 3" CLEARANCE BELOW CABLE TRAYS.

18. COMPLY WITH ANSI/TIA-569-D TELECOMMUNICATION PATHWAYS AND SPACES.

19. USE ONLY COPPER CONDUCTORS FOR GROUND CONNECTIONS. THE USE OF ALUMINUM CONDUCTORS IS NOT ALLOWED.

20. PROVIDE CABLE INSTALLED IN UNDERGROUND CONDUITS LISTED FOR USE IN WET LOCATIONS. PLENUM RATED CABLE MUST NOT BE INSTALLED IN ANY UNDERGROUND CONDUIT.

21. LABEL ALL CABLE TERMINATIONS AND BOTH ENDS OF ALL CABLES IN ACCORDANCE WITH UFC 3-580-01 AND ANSI/TIA-606-B.

22. PROVIDE AS-BUILT DOCUMENTATION INCLUDING COMPLETE TEST RESULT REPORTS, FLOOR PLANS SHOWING USER WORKSTATIONS WITH CABLING LABELING, AND BACKBONE CABLE SCHEMATIC AND LABELING IN AN ELECTRONIC FORMAT (PDF) OR OTHER APPROVED FORMAT AND A PRINTED HARDCOPY. TEST RESULTS MUST BE SUPPLIED ELECTRONICALLY TO THE PROJECT RCDD AND CORPS PROJECT ENGINEER/ARCHITECT IN THE TEST PROGRAM NATIVE FORMAT.

23. ANY MOTOR, TRANSFORMER, OR OTHER ELECTRICAL DEVICE GREATER THAN 5 KVA MUST HAVE A MINIMUM OF A 4' BUFFER FROM ANY WALL OF THE EF, TER, OR TR(S).

5

TELECOMMUNICATIONS ABBREVIATIONS

110

110 PUNCHDOWN BLOCKS

8P8C

8-PIN, 8-CONDUCTOR

ACS

ACCESS CONTROL SYSTEM

AFF

ABOVE FINISHED FLOOR

AHJ

AUTHORITY HAVING JURISDICTION

ANSI

AMERICAN NATIONAL STANDARDS INSTITUTE

AWG

AMERICAN WIRE GAUGE

BBC

BACKBONE BONDING CONDUCTOR

BCT

BONDING CONDUCTOR FOR TELECOMMUNICATIONS

C

CONDUIT(S)

CAA

CONTROLLED ACCESS AREA

CAT 6

CABLING ETL VERIFIED TO ANSI/TIA-568-C.2 CATEGORY 6

CATV

CABLE TELEVISION

CCH

CLOSET CONNECTOR HOUSING

CCTV

CLOSED-CIRCUIT TELEVISION

CFCI

CONTRACTOR FURNISHED CONTRACTOR INSTALLED

CP

CONSOLIDATION POINT

DB

DIRECT BURIED

DDC

DIRECT DIGITAL CONTROL

DIA

DIAMETER

DWG

DRAWING

ER

EXISTING RELOCATED

EMT

ELECTRICAL METALLIC TUBING

ETR

EXISTING TO REMAIN

EXIST

EXISTING

FB

FLOOR BOX

FT

FEET

GFGI

GOVERNMENT FURNISHED GOVERNMENT INSTALLED

GND

GROUND

GRC

GALVANIZED RIGID CONDUIT

GRS

GALVANIZED RIGID STEEL

IAW

IN ACCORDANCE WITH

IDS

INTRUSION DETECTION SYSTEM

IN

INCHES

LCA

LIMITED CONTROL ACCESS

MC

MECHANICAL CONTRACTOR

MIN

MINIMUM

MTD

MOUNTED

NEC

NATIONAL ELECTRICAL CODE

NEMA

NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION

NESC

NATIONAL ELECTRICAL SAFETY CODE

NFPA

NATIONAL FIRE PROTECTION ASSOCIATION

NIC

NOT IN CONTRACT

NTS

NOT TO SCALE

OEM

ORIGINAL EQUIPMENT MANUFACTURER

OFCI

OWNER FURNISHED CONTRACTOR INSTALLED

OFOI

OWNER FURNISHED OWNER INSTALLED

OSHA

OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION

PA

PUBLIC ADDRESS

PBB

PRIMARY BONDING BUSBAR

PE

POLYETHYLENE

PET

PROTECTED ENTRANCE TERMINALS

PDU

POWER DISTRIBUTION UNIT

POTS

PLAIN OLD TELEPHONE SERVICE (SWITCHED TELEPHONE LINE)

PSI

POUNDS PER SQUARE INCH

PTZ

PAN / TILT / ZOOM

QTY

QUANTITY

RBB

RACK BONDING BUSBAR

RBC

RACK BONDING CONDUCTOR

RMC

RIGID METAL CONDUIT

RR

REMOVE AND RELOCATE

RU

RACK UNIT

SBB

SECONDARY BONDING BUSBAR

SCH

SCHEDULE

STP

SHIELDED TWISTED PAIR

TBB

TELECOMMUNICATIONS BONDING BACKBONE

TBC

TELECOMMUNICATIONS BONDING CONDUCTOR

TE

TELECOMMUNICATIONS ENCLOSURE

TEBC

TELECOMMUNICATIONS EQUIPMENT BONDING CONDUCTOR

TEF

TELECOMMUNICATIONS ENTRANCE FACILITY

TGB

TELECOMMUNICATIONS GROUNDING BUSBAR

TMGB

TELECOMMUNICATIONS MAIN GROUNDING BUSBAR

TYP

TYPICAL

U/G

UNDERGROUND

UON

UNLESS OTHERWISE NOTED

U/UTP

UNSCREENED/UNSHIELDED TWISTED PAIR CABLE

VoIP

VOICE OVER INTERNET PROTOCOL

WP

WEATHERPROOF

XP

EXPLOSION PROOF

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UNCLASSIFIED

TELECOMMUNICATIONS - SITE UTILITY PLAN

SCALE: 1" = 60'-0"

1

2

3

4

5

UNCLASSIFIED

GENERAL NOTES

- 1 SEE SHEET E-001 FOR ELECTRICAL NOTES, SYMBOLS, AND ABBREVIATIONS.
- 2 DEPTH OF DUCTBANKS SHALL BE COORDINATED WITH OTHER UTILITIES.

KEYNOTES

- 1 NEW 2-WAY 2" CONDUIT DUCTBANK FROM NEW SITE MANHOLE TO ROADWAY MEDIAN LOCATION; COORDINATE EXACT CONDUIT STUB UP LOCATION WITH PROPOSED CARD READER LOCATION.
- 2 NEW 4'x4'x4' PRECAST CONCRETE COMMUNICATION VAULT
- 3 NEW 2'x3' CONCRETE POLYMER HANDHOLE
- 4 NEW 2-WAY 4" CONDUIT DUCTBANK FROM NEW SITE MANHOLE TO NEW HANDHOLE
- 5 NEW 6-WAY 4" CONDUIT DUCTBANK FROM MH15 TO NEW SITE MANHOLE, WITH THREE (3) 3" 3-DUCT FABRIC INNERDUCT INSTALLED IN THREE CONDUITS; PROVIDE AND INSTALL ONE (1) NEW 24-STRAND SINGLEMODE OSP OPTICAL FIBER CABLE FROM MH15 TO NEW FACILITY EF VIA NEW DUCTBANK SYSTEM, AND ONE (1) 300-PAIR OSP PE39 COPPER CABLE FROM EXISTING MH WC1-2-9 TO NEW FACILITY EF VIA NEW DUCTBANK SYSTEM. COORDINATE WITH GOVERNMENT FOR PLACING, SPLICING, TERMINATION, AND CUTOVER REQUIREMENTS.
- 6 NEW 2-WAY 2" CONDUIT DUCTBANK FROM BUILDING TELECOM ROOM TR208 TO PEDESTAL LOCATION; ONE CONDUIT WITH ONE (1) 3" 3-DUCT FABRIC INNERDUCT INSTALLED IN ONE CONDUIT; PROVIDE AND INSTALL ONE (1) NEW 24-STRAND SINGLEMODE OSP OPTICAL FIBER CABLE FROM SIM SECURE SERVER COMM ROOM 304B, AND ONE (1) 100-PAIR PE-39 OSP COPPER CABLE FROM SIM CONTROL SERVER ROOM 304A TO NEW PEDESTAL LOCATIONS AT BUILDING EXTERIOR; COORDINATE TERMINATION LOCATIONS WITH BASE COMMUNICATIONS.
- 7 NEW 2-WAY 2" CONDUIT DUCTBANK BETWEEN NEW PEDESTAL LOCATIONS; ONE CONDUIT WITH ONE (1) 1" 3-DUCT FABRIC INNERDUCT INSTALLED IN ONE CONDUIT
- 8 NEW TELECOMMUNICATIONS PEDESTAL LOCATION
- 9 NEW 3-WAY 4" CONDUIT DUCTBANK FROM MH15 TO NEW SITE MANHOLE, WITH THREE (3) 3" 3-DUCT FABRIC INNERDUCT INSTALLED IN ONE CONDUIT



PRELIMINARY
FOR REFERENCE ONLY

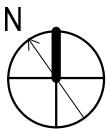
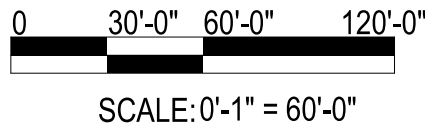


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100 AIRSIDE DRIVE
MOON TOWNSHIP, PA 15108
APPROVED

FOR COMMANDER NAVFAC
ACTIVITY
MARINE CORPS BASE
CAMP LEJEUNE
SATISFACTORY TO DATE
DES JTE DRWETH CHK JMS
PM
BRANCH MANAGER
CHIEF ENGINEER
FIRE PROTECTION

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND
ATLANTIC DESIGN AND CONSTRUCTION
NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND ATLANTIC
NORFOLK, VA
MOB CAMP LEJEUNE
JACKSONVILLE, NC
P1338 II MEF SIMULATION/TRAINING CENTER
REPLACEMENT
TELECOMMUNICATIONS - SITE PLAN

SCALE: AS NOTED
EPROJECT NO.: 1590892
CONSTR. CONTR. NO.
N40085-20-C-0059
NAVFAC DRAWING NO.
SHEET OF
TS101



FILE NAME: BIM 360/HF PACKAGE 3/P1338 MEF SIM CTR-1590892-E-N4
PLOTTED: 9/1/2021 3:33:46 PM

DP1 UPDATES WITH DP2 FINAL SUBMISSION

FILE NAME: BIM 360/HF PACKAGE 3/P1338 MEF SIM CTR-1590892-E-V4
PLOTTED: 9/1/2021 3:32:47 PM

UNCLASSIFIED

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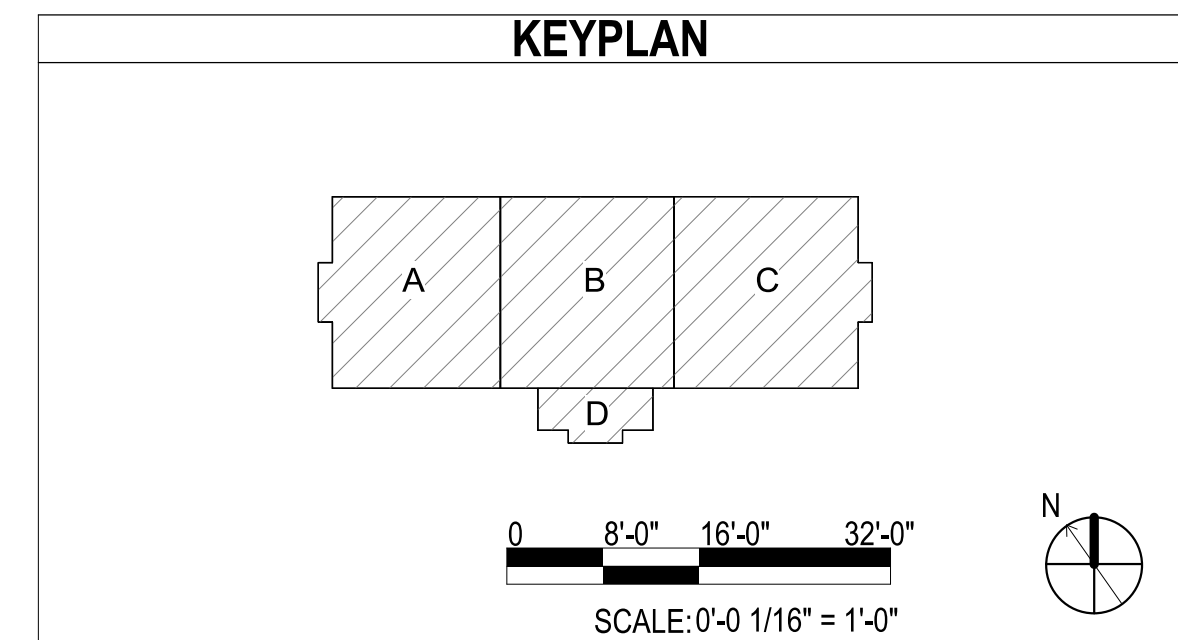
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UNCLASSIFIED

TELECOMMUNICATIONS - FLOOR PLAN OVERALL

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



A1
T-114

A1
T-111

A1
T-112

A1
T-113

SYN	DESCRIPTION	DATE	APPR



PRELIMINARY
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Michael Baker
INTERNATIONAL
100 AIRSIDE DRIVE
MOON TOWNSHIP, PA 15108
APPROVED

FOR COMMANDER NAVFAC
ACTIVITY
MARINE CORPS BASE
CAMP LEJEUNE
SATISFACTORY TO DATE
DES JTE DRWETH CHK JMS
PM
BRANCH MANAGER
CHIEF ENGINEER
FIRE PROTECTION

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND
ATLANTIC DESIGN AND CONSTRUCTION
NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND ATLANTIC
NORFOLK, VA
MOB CAMP LEJEUNE
JACKSONVILLE, NC
P1338 II MEF SIMULATION/TRAINING CENTER
REPLACEMENT
TELECOMMUNICATIONS - FLOOR PLAN OVERALL

SCALE: AS NOTED
EPROJECT NO.: 1590892
CONSTR. CONTR. NO.
N40085-20-C-0059
NAVFAC DRAWING NO.
SHEET OF
T-100

DP1 UPDATES WITH DP2 FINAL SUBMISSION

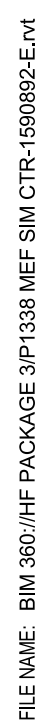
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UNCLASSIFIED

FILE NAME: BIM 360://HF PACKAGE 3/P1338 MEF SIM CTR-1590892-EN-IT
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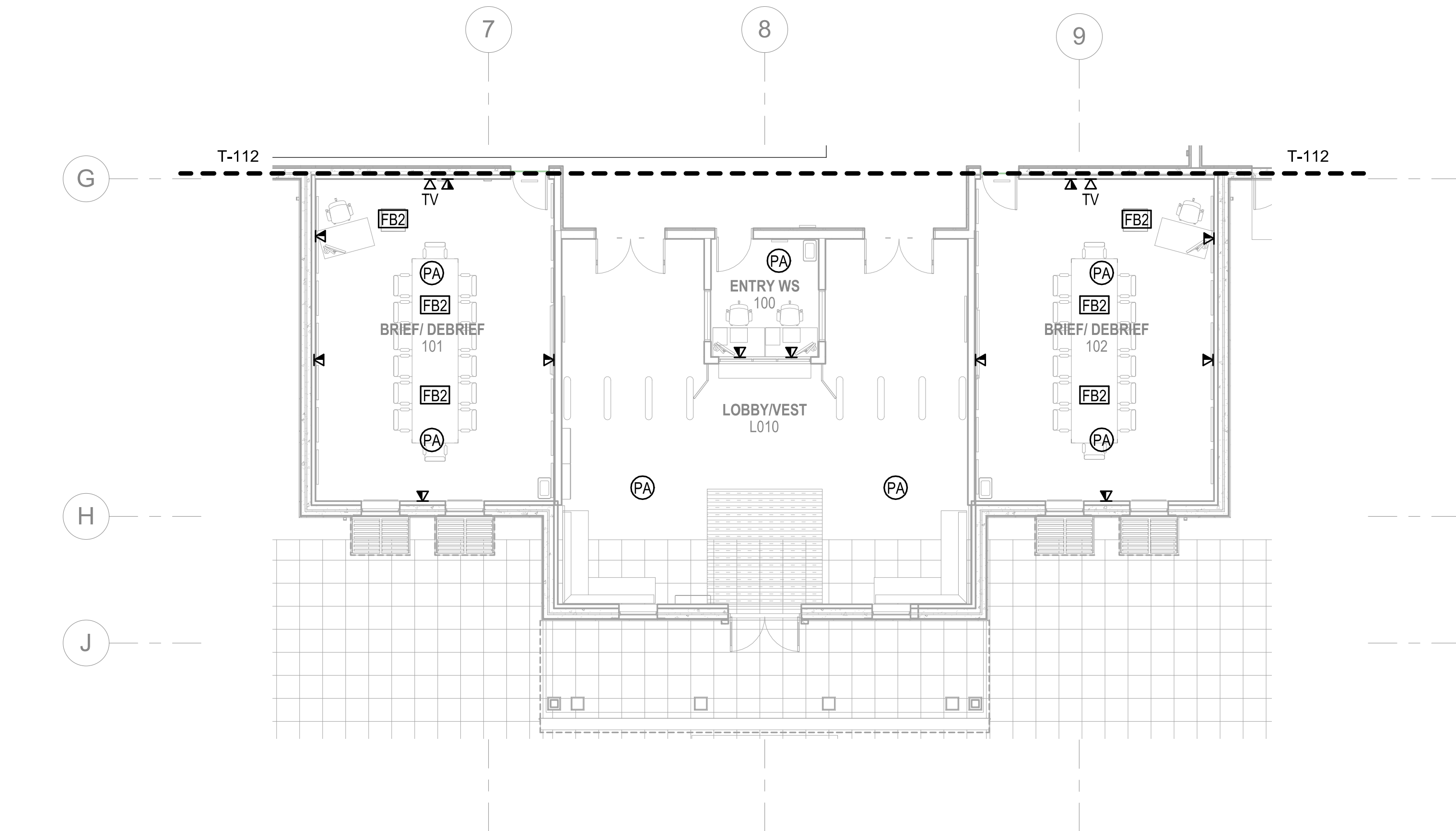
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A1 TELECOMMUNICATIONS - FIRST FLOOR PLAN - AREA D
SCALE: 1/8" = 1'-0" (T-100)

- GENERAL NOTES**
- 1 SEE SHEET T-001 FOR TELECOMMUNICATIONS NOTES, SYMBOLS, AND ABBREVIATIONS.
 - 2 CONTRACTOR TO PROVIDE ALL PA SYSTEM REQUIREMENTS, TO INCLUDE PATHWAYS, CONDUITS, JUNCTION BOXES, WIRING, CABLING, SPEAKERS, AND SYSTEM COMPONENTS.



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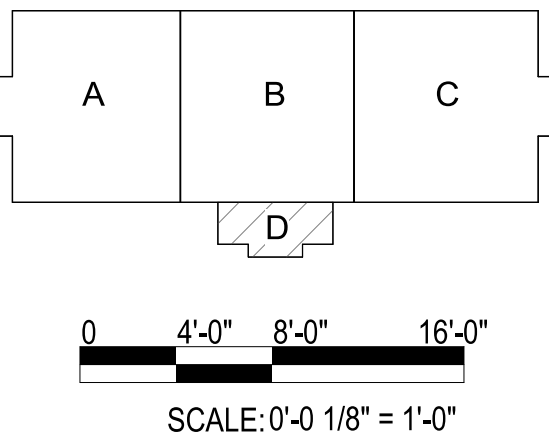
Michael Baker INTERNATIONAL
100 AIRSIDE DRIVE
MOON TOWNSHIP, PA 15108
APPROVED

FOR COMMANDER NAVFAC
ACTIVITY
MARINE CORPS BASE
CAMP LEJEUNE
SATISFACTORY TO DATE
DES JTE DRWETH CHK JMS
PM
BRANCH MANAGER
CHIEF ENGINEER
FIRE PROTECTION

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND ATLANTIC
ATLANTIC DESIGN AND CONSTRUCTION
NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND ATLANTIC
NORFOLK, VA
MOB CAMP LEJEUNE
JACKSONVILLE, NC
P1338 II MEF SIMULATION/TRAINING CENTER
REPLACEMENT
TELECOMMUNICATIONS - FIRST FLOOR PLAN - AREA D

SCALE: AS NOTED
EPROJECT NO.: 1590892
CONSTR. CONTR. NO.
N40085-20-C-0059
NAVFAC DRAWING NO.
SHEET OF
T-114

KEYPLAN



DP1 UPDATES WITH DP2 FINAL SUBMISSION

UNCLASSIFIED

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UNCLASSIFIED

FILE NAME: BIM 360://HF PACKAGE 3/P1338 MEF SIM CTR-1590892-E-V4
PLOTTED: 9/1/2021 3:33:49 PM

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TU113

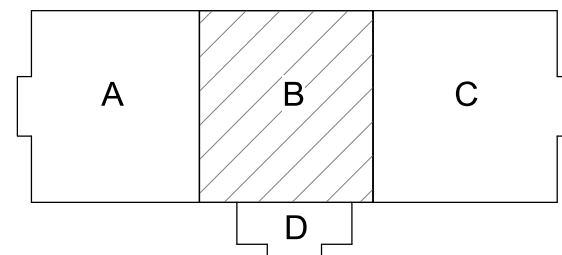
TU113

A1

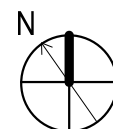
TELECOMMUNICATIONS - UNDERFLOOR PLAN - AREA B

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

KEYPLAN



0 4'-0" 8'-0" 16'-0"
SCALE: 0'-0 1/8" = 1'-0"



GENERAL NOTES

- SEE SHEET T-001 FOR TELECOMMUNICATIONS NOTES, SYMBOLS, AND ABBREVIATIONS.
- CONTRACTOR TO PROVIDE ALL PA SYSTEM REQUIREMENTS, TO INCLUDE PATHWAYS, CONDUITS, JUNCTION BOXES, WIRING, CABLING, SPEAKERS, AND SYSTEM COMPONENTS.

APPROVED	DATE	APPROVED
SYMBOL	DESCRIPTION	SYMBOL
PRELIMINARY FOR REFERENCE ONLY		
Michael Baker INTERNATIONAL 100 AIRSIDE DRIVE MOON TOWNSHIP, PA 15108 APPROVED		
FOR COMMANDER NAVFAC		
ACTIVITY MARINE CORPS BASE CAMP LEJEUNE		
SATISFACTORY TO DATE		
DES. JTE	DRW. JTE	CHK. JTE
PM		
BRANCH MANAGER		
CHIEF ENGINEER		
FIRE PROTECTION		
NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND ATLANTIC DESIGN AND CONSTRUCTION NAVFAC CAMP LEJEUNE JACKSONVILLE, NC P1338 II MEF SIMULATION/TRAINING CENTER REPLACEMENT TELECOMMUNICATIONS - FIRST FLOOR PLAN - AREA B UNDERSLAB		
SCALE: AS NOTED EPROJECT NO.: 1590892 CONSTR. CONTR. NO. N40085-20-C-0059 NAVFAC DRAWING NO. SHEET OF TU112		

DP1 UPDATES WITH DP2 FINAL SUBMISSION

UNCLASSIFIED

FILE NAME: BIM 360/HF PACKAGE 3/P1338 - MEF SIM CTR-1590892-E-1.rvt
PLOTTED: 9/1/2021 3:33:51 PM

UNCLASSIFIED

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TU112

TU112

A1

TELECOMMUNICATIONS - UNDERFLOOR PLAN - AREA C

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

GENERAL NOTES

- SEE SHEET T-001 FOR TELECOMMUNICATIONS NOTES, SYMBOLS, AND ABBREVIATIONS.
- CONTRACTOR TO PROVIDE ALL PA SYSTEM REQUIREMENTS, TO INCLUDE PATHWAYS, CONDUITS, JUNCTION BOXES, WIRING, CABLING, SPEAKERS, AND SYSTEM COMPONENTS.
- SEE DETAIL A4 SHEET T-503 FOR ADDITIONAL INFORMATION REGARDING UNDERFLOOR CABLE TRAY TIERING.



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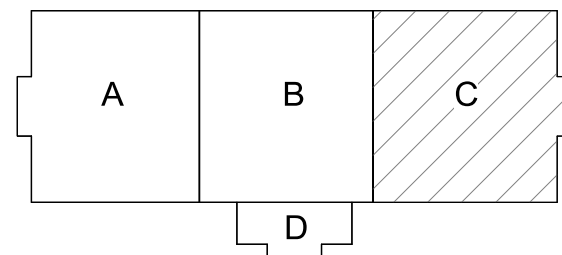
Michael Baker
INTERNATIONAL
100 AIRSIDE DRIVE
MOON TOWNSHIP, PA 15108
APPROVED

FOR COMMANDER NAVFAC
ACTIVITY
MARINE CORPS BASE
CAMP LEJEUNE
SATISFACTORY TO DATE
DES JTE DRWETH CHK JMS
PM
BRANCH MANAGER
CHIEF ENGINEER
FIRE PROTECTION

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND ATLANTIC
ATLANTIC DESIGN AND CONSTRUCTION
MOB CAMP LEJEUNE
JACKSONVILLE, NC
P1338 II MEF SIMULATION/TRAINING CENTER
REPLACEMENT
TELECOMMUNICATIONS - FIRST FLOOR PLAN - AREA C UNDERSLAB

SCALE: AS NOTED
EPROJECT NO.: 1590892
CONSTR. CONTR. NO.
N40085-20-C-0059
NAVFAC DRAWING NO.
SHEET OF
TU113

KEYPLAN



0 4'-0" 8'-0" 16'-0"
SCALE: 0'-0" 1/8" = 1'-0"



DP1 UPDATES WITH DP2 FINAL SUBMISSION

UNCLASSIFIED

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PLOTTED: 9/1/2021 3:33:09 PM

FILE NAME: BIM 360/HF PACKAGE 3/P1338_MEF SIM CTR-1590892-E-V4

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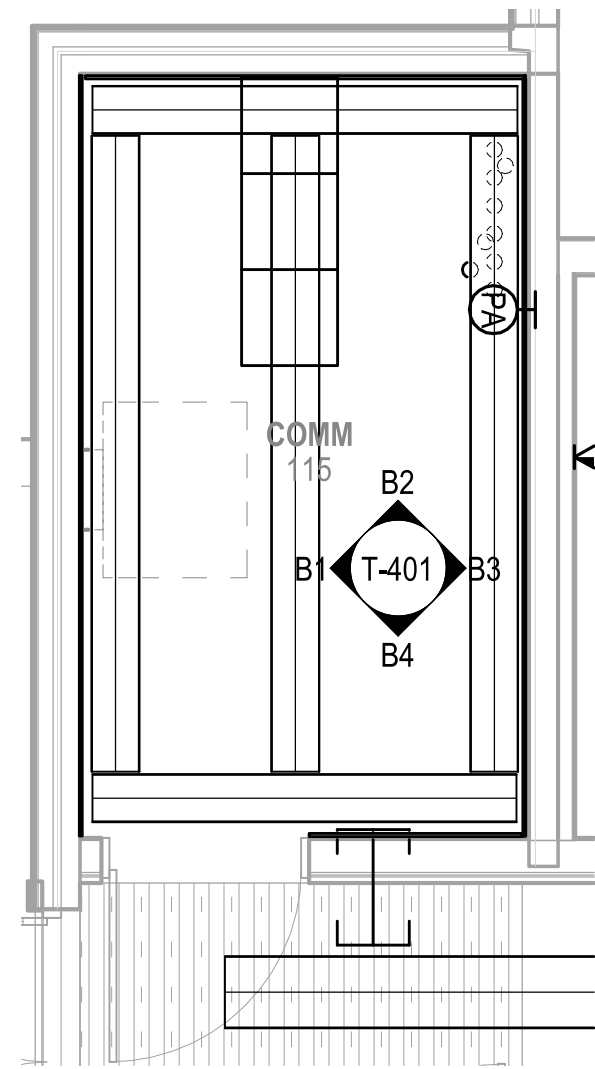
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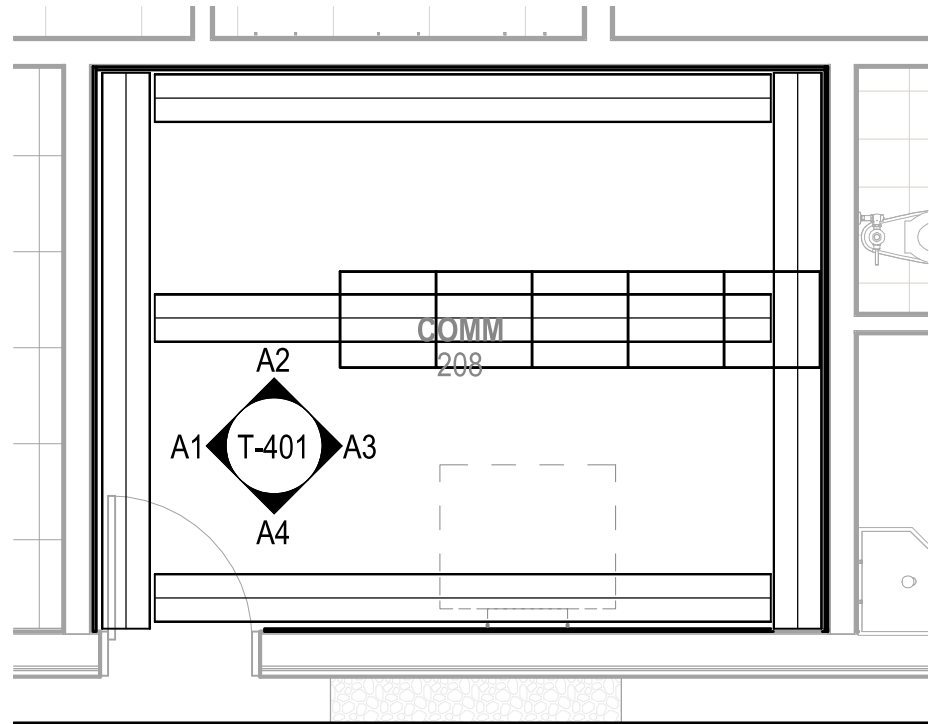


TELECOMMUNICATIONS - ENLARGED ROOM 115

SCALE: 1/4" = 1'-0"

T-111

C1

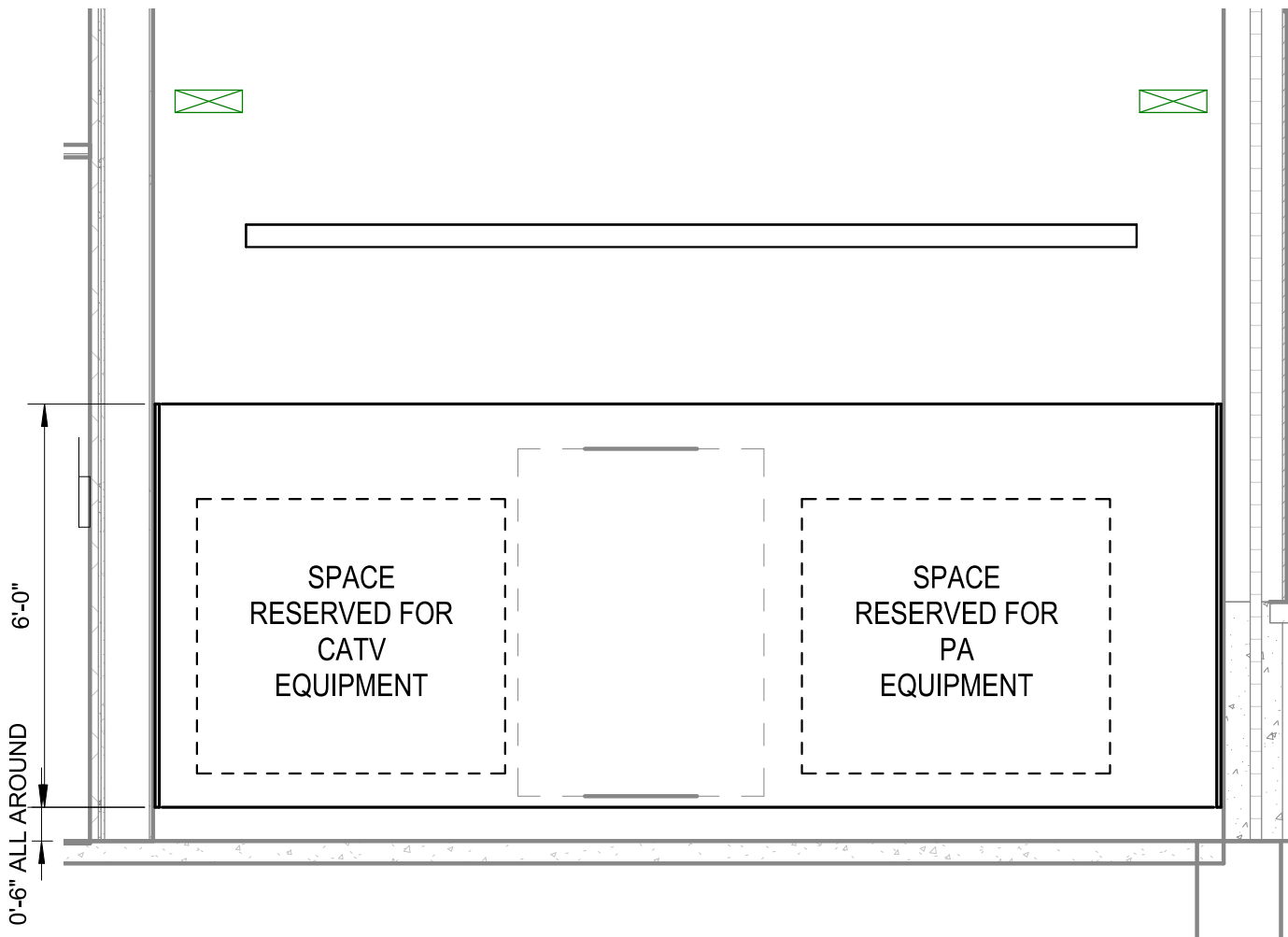


TELECOMMUNICATIONS - ENLARGED ROOM 208

SCALE: 1/4" = 1'-0"

T-111

C3

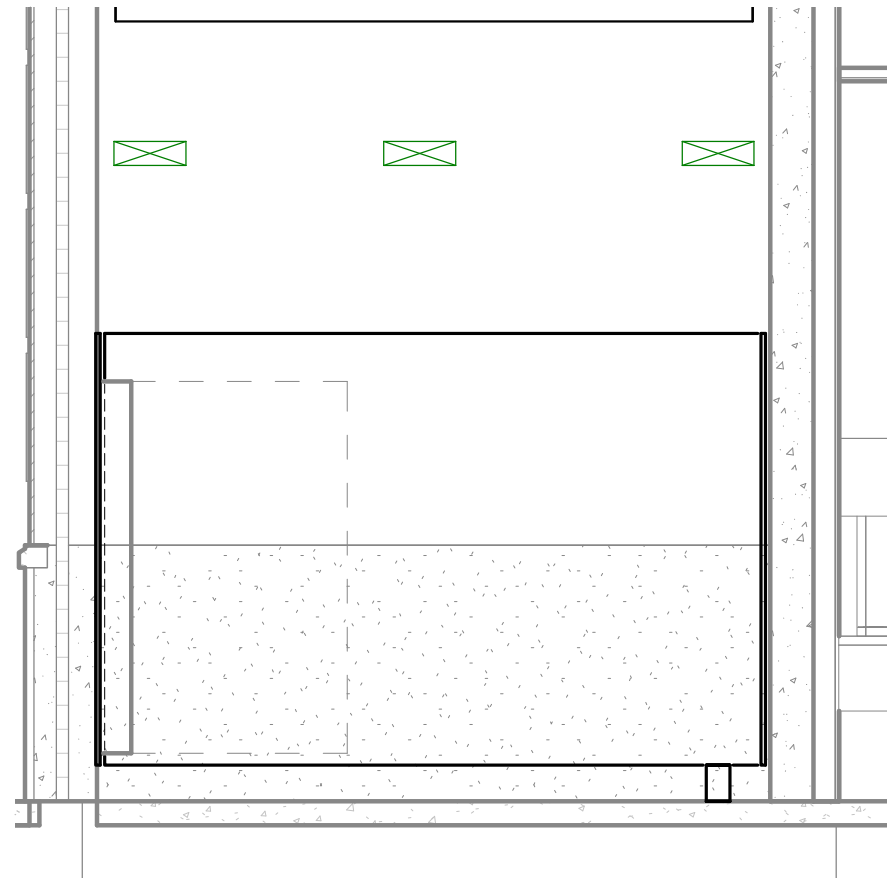


TELECOM RM 115 ELEVATION - DETAIL "B1"

SCALE: 3/8" = 1'-0"

T-401

B1

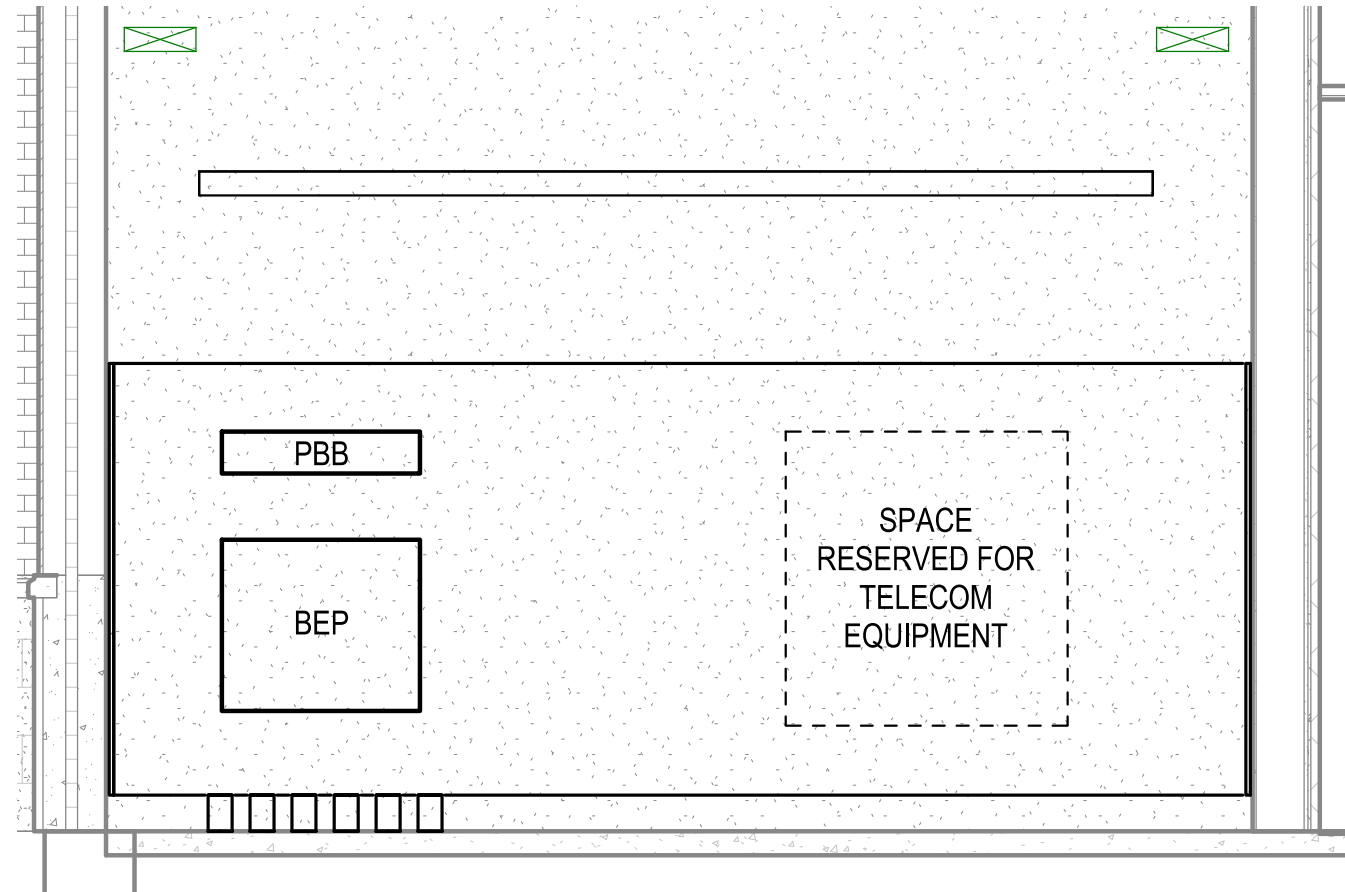


TELECOM RM 115 ELEVATION - DETAIL "B2"

SCALE: 3/8" = 1'-0"

T-401

B2

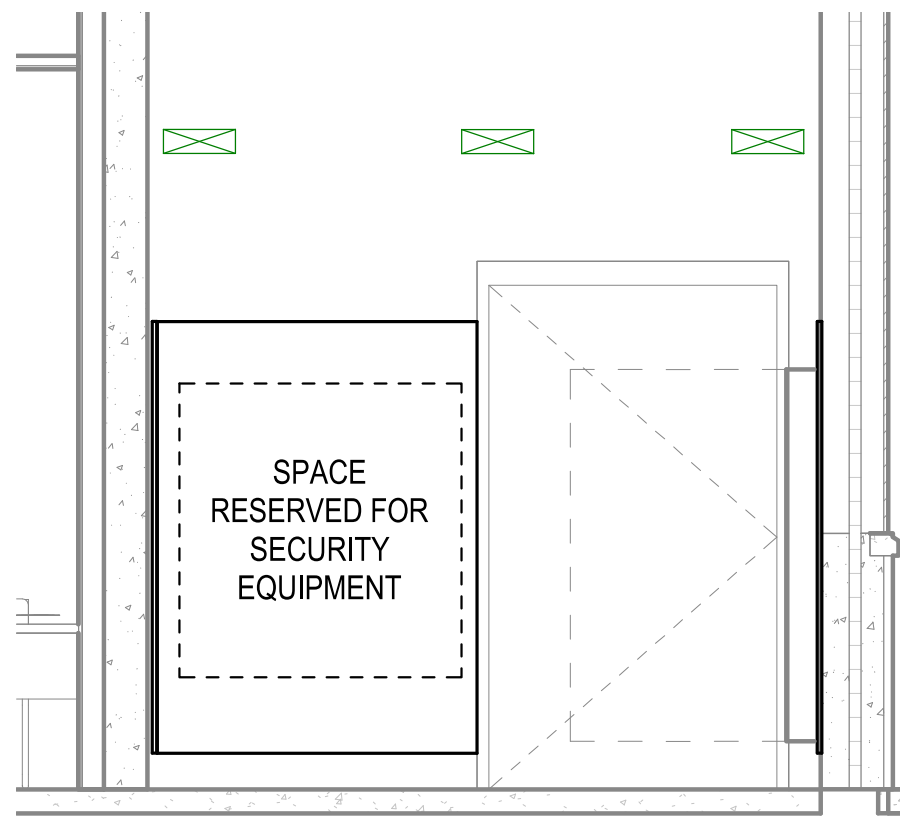


TELECOM RM 115 ELEVATION - DETAIL "B3"

SCALE: 3/8" = 1'-0"

T-401

B3

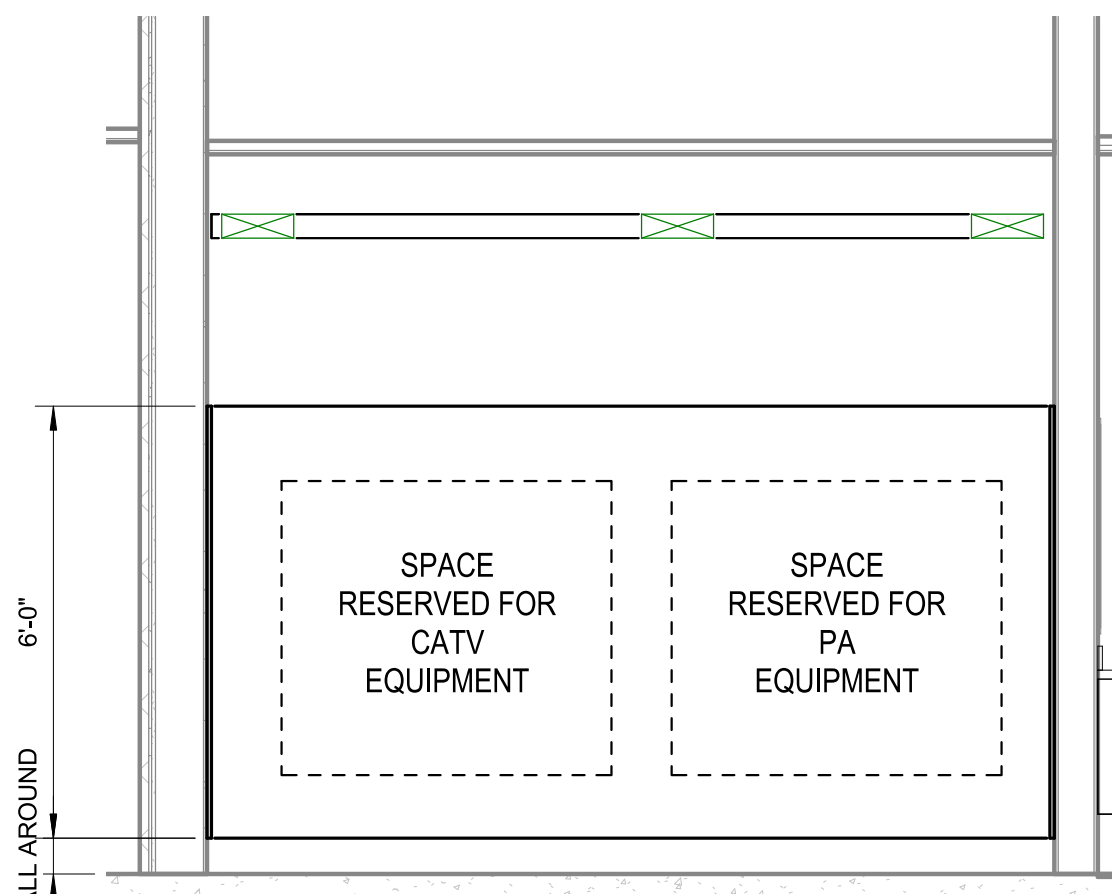


TELECOM RM 115 ELEVATION - DETAIL "B4"

SCALE: 3/8" = 1'-0"

T-401

B4

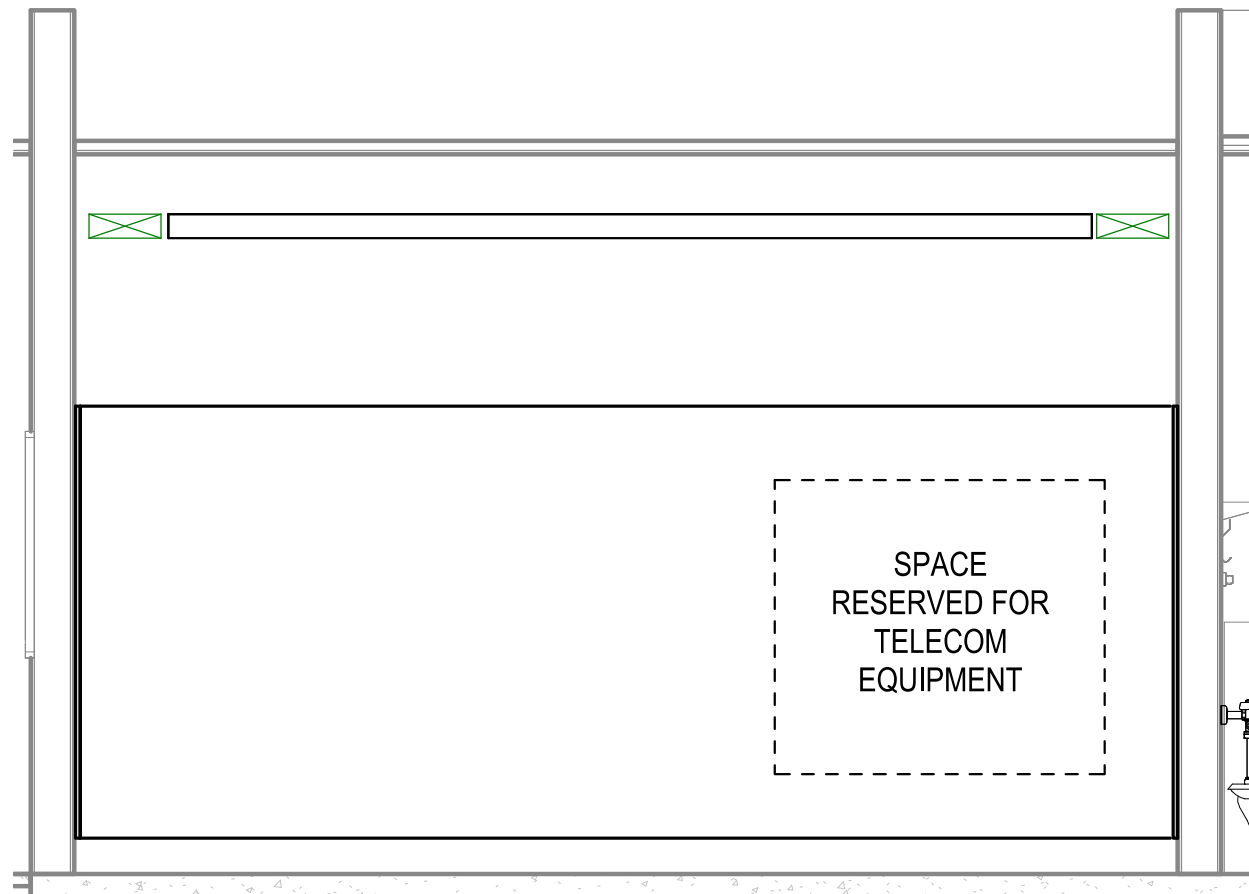


TELECOM RM 208 ELEVATION - DETAIL "A1"

SCALE: 3/8" = 1'-0"

T-401

A1

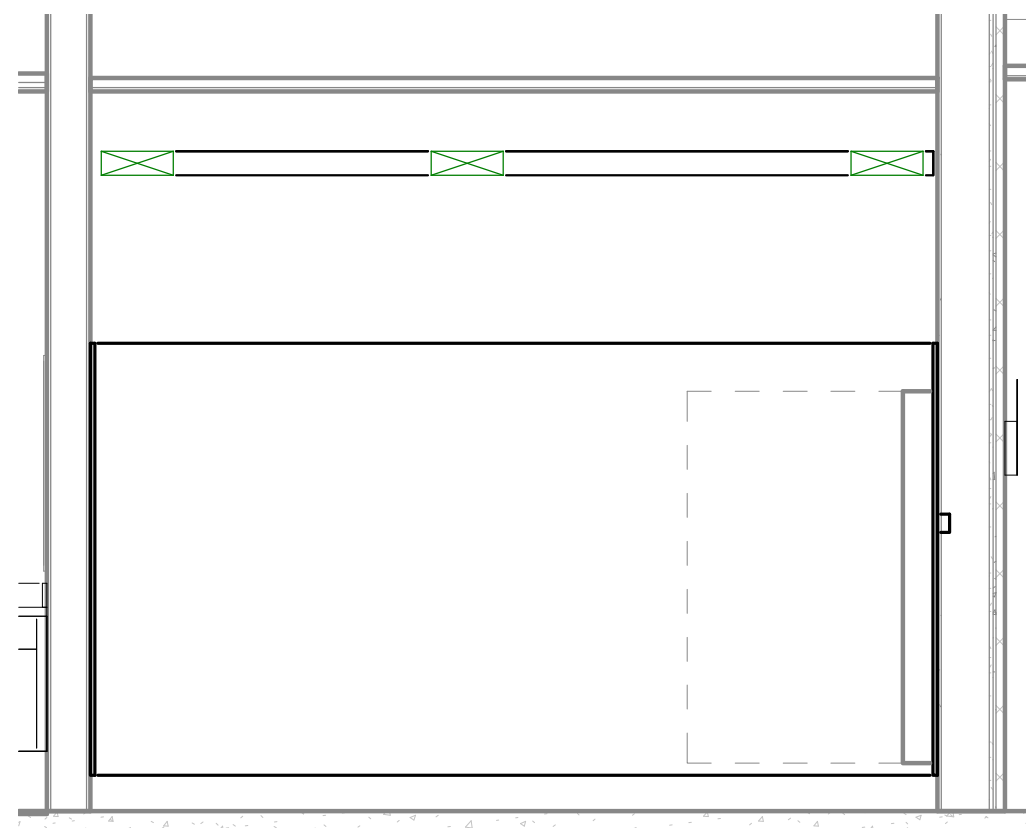


TELECOM RM 208 ELEVATION - DETAIL "A2"

SCALE: 3/8" = 1'-0"

T-401

A2

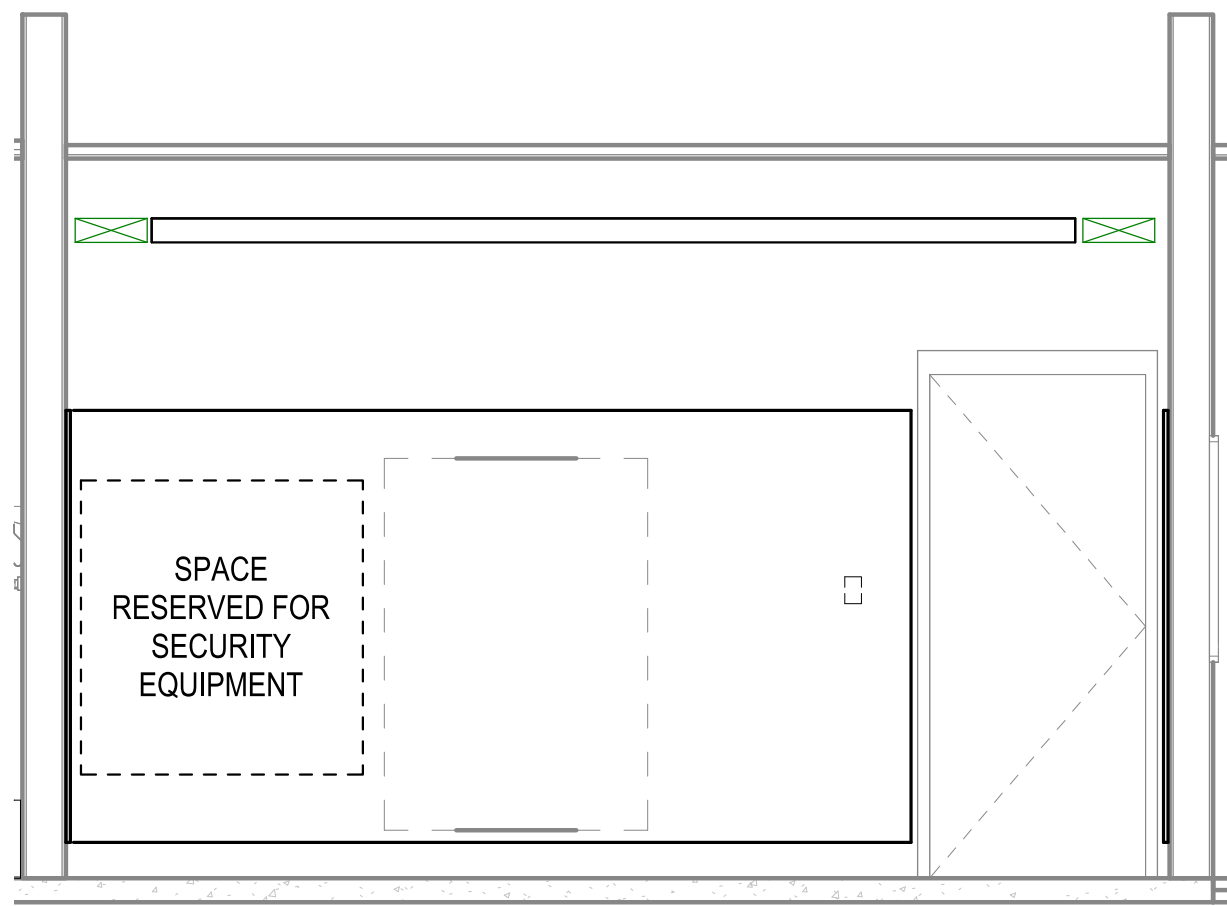


TELECOM RM 208 ELEVATION - DETAIL "A3"

SCALE: 3/8" = 1'-0"

T-401

A3

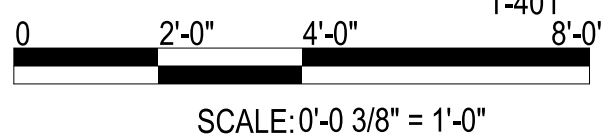


TELECOM RM 208 ELEVATION - DETAIL "A4"

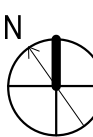
SCALE: 3/8" = 1'-0"

T-401

A4



SCALE: 0'-0 3/8" = 1'-0"



GENERAL NOTES

- SEE SHEET T-001 FOR TELECOMMUNICATIONS NOTES, SYMBOLS, AND ABBREVIATIONS.
- CONTRACTOR TO PROVIDE ALL PA SYSTEM REQUIREMENTS, TO INCLUDE PATHWAYS, CONDUITS, JUNCTION BOXES, WIRING, CABLING, SPEAKERS, AND SYSTEM COMPONENTS.



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INTERNATIONAL
100 AIRSIDE DRIVE
MOON TOWNSHIP, PA 15108
APPROVED

FOR COMMANDER NAVFAC
ACTIVITY
MARINE CORPS BASE
CAMP LEJEUNE
SATISFACTORY TO DATE
DES JTE DRWETH CHK JMS
PM
BRANCH MANAGER
CHIEF ENGINEER
FIRE PROTECTION

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND ATLANTIC
ATLANTIC DESIGN AND CONSTRUCTION
NAVFAC DRAWING NO.
SHEET OF
NAVFAC DRAWING NO.
P1338 II MEF SIMULATION/TRAINING CENTER
REPLACEMENT
TELECOMMUNICATIONS - ENLARGED PLANS

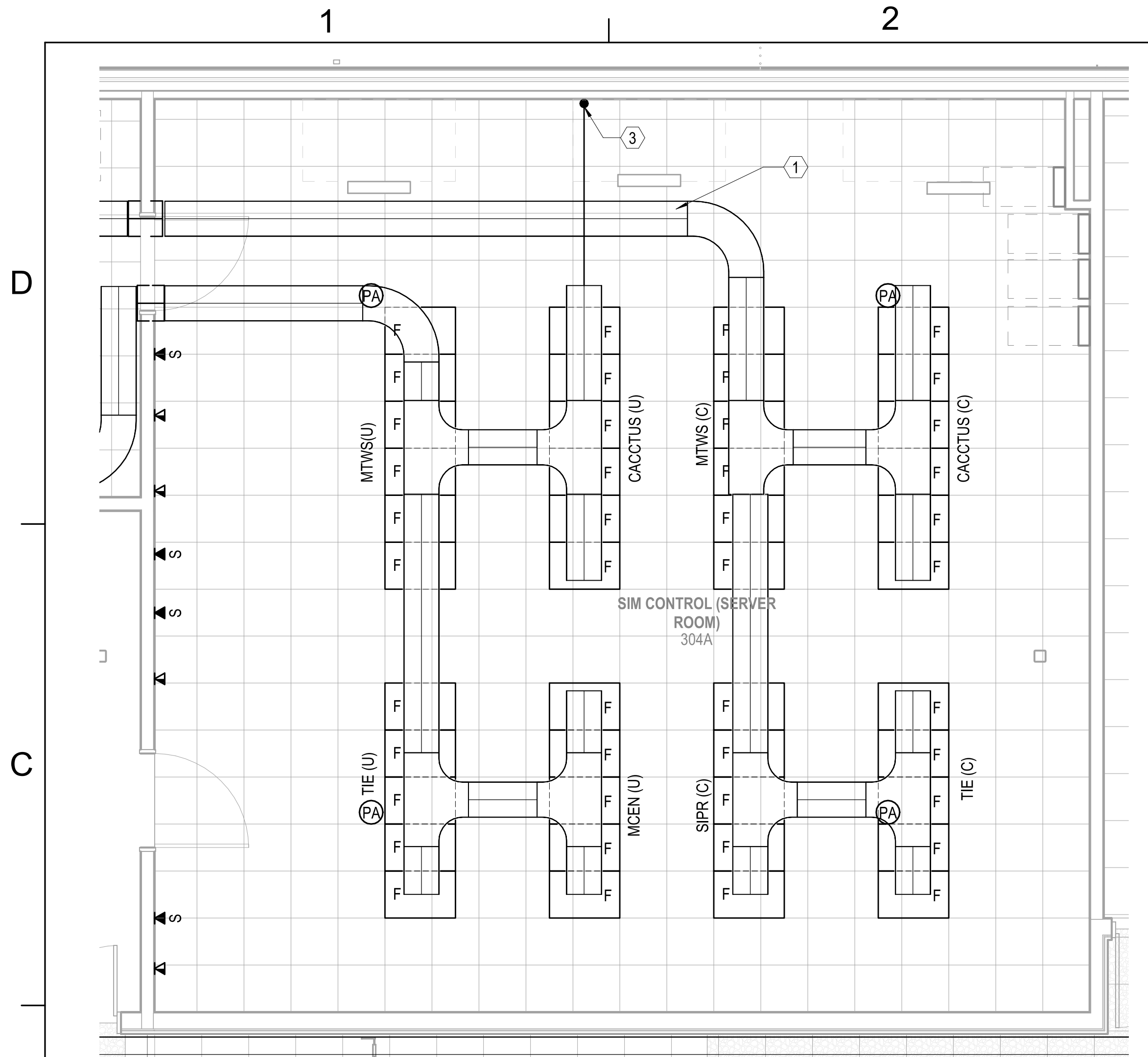
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EPROJCT NO.: 1590892
CONSTR. CONTR. NO.
N40085-20-C-0059
NAVFAC DRAWING NO.
SHEET OF
T-401

DP1 UPDATES WITH DP2 FINAL SUBMISSION

UNCLASSIFIED

UNCLASSIFIED

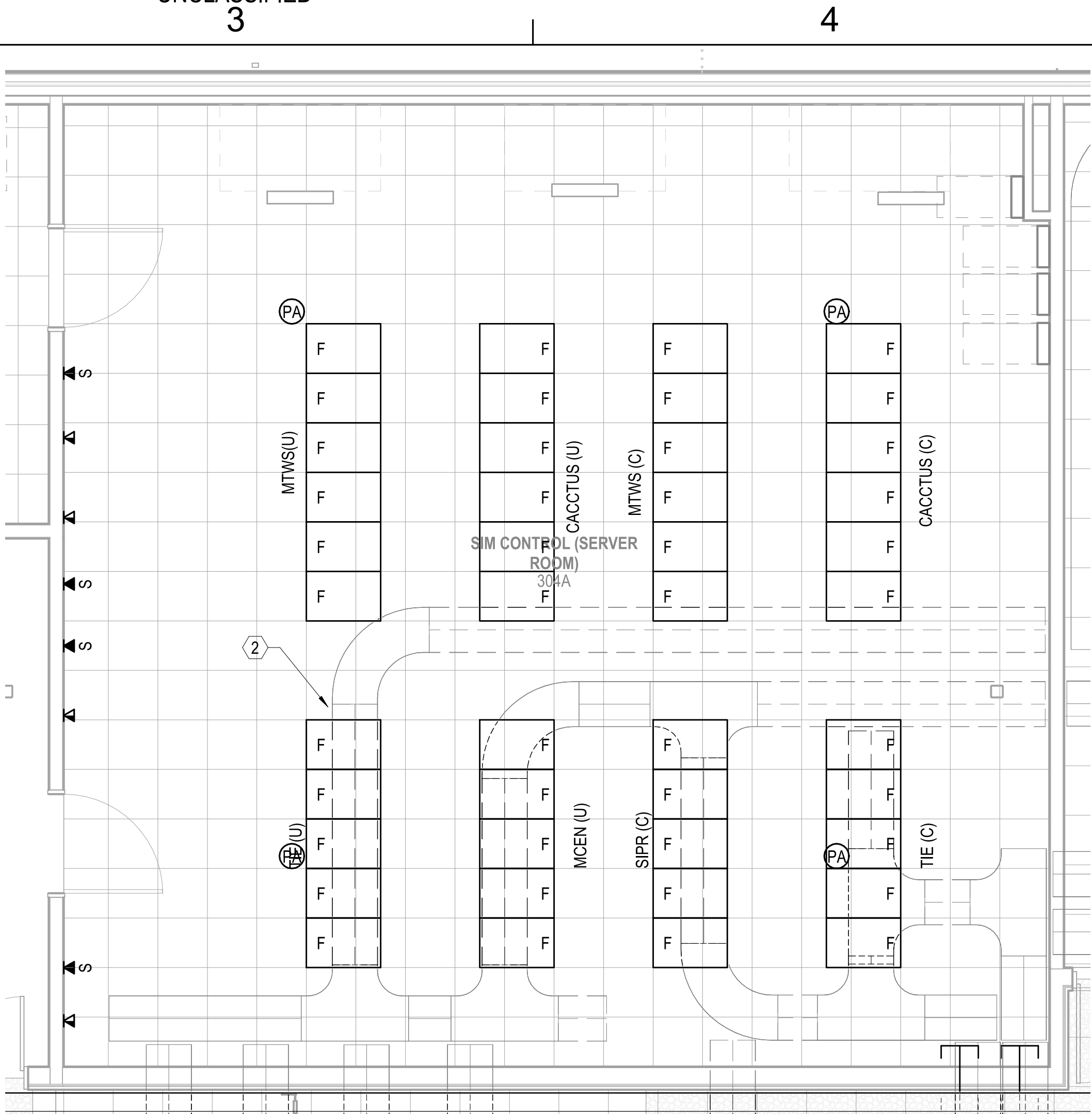
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TELECOMMUNICATIONS - ENLARGED ROOM 304A OVERHEAD TRAY LAYOUT

SCALE: 1/4" = 1'-0"

T-111 B1



TELECOMMUNICATIONS - ENLARGED ROOM 304A UNDERFLOOR

SCALE: 1/4" = 1'-0"

B3

GENERAL NOTES

- SEE SHEET T-001 FOR TELECOMMUNICATIONS NOTES, SYMBOLS, AND ABBREVIATIONS.
- CONTRACTOR TO PROVIDE ALL PA SYSTEM REQUIREMENTS, TO INCLUDE PATHWAYS, CONDUITS, JUNCTION BOXES, WIRING, CABLING, SPEAKERS, AND SYSTEM COMPONENTS.

KEYNOTES

- 18" x 4" WIRE BASKET STYLE CABLE TRAY MOUNTED ABOVE CABINET, WITH RADIUS SPILLOUTS INTO CABINET
- 22" x 6" WIRE BASKET STYLE CABLE TRAY MOUNTED UNDER RASIED ACCESS FLOOR, SECURED TO PEDSTALS PER MANUFACTURER'S RECOMMENDATIONS
- ONE (1) 3" CONDUIT TO ROOF FOR GPS ANTENNA



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MOON TOWNSHIP, PA 15108
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FOR COMMANDER NAVFAC

ACTIVITY
MARINE CORPS BASE
CAMP LEJEUNE

SATISFACTORY TO DATE

DES JTE DRWETH CHK JMS

PM

BRANCH MANAGER

CHIEF ENGINEER

FIRE PROTECTION

NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND

NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND ATLANTIC

ATLANTIC DESIGN AND CONSTRUCTION

MOB CAMP LEJEUNE

JACKSONVILLE, NC

P1338 II MEF SIMULATION/TRAINING CENTER

REPLACEMENT

TELECOMMUNICATIONS - ENLARGED PLANS

SCALE: AS NOTED

EPROJECT NO.: 1590892

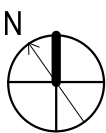
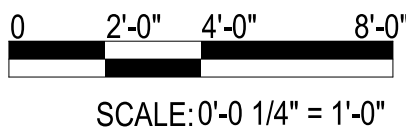
CONSTR. CONTR. NO.

N400085-20-C-0059

NAVFAC DRAWING NO.

SHEET OF

T-402



DP1 UPDATES WITH DP2 FINAL SUBMISSION

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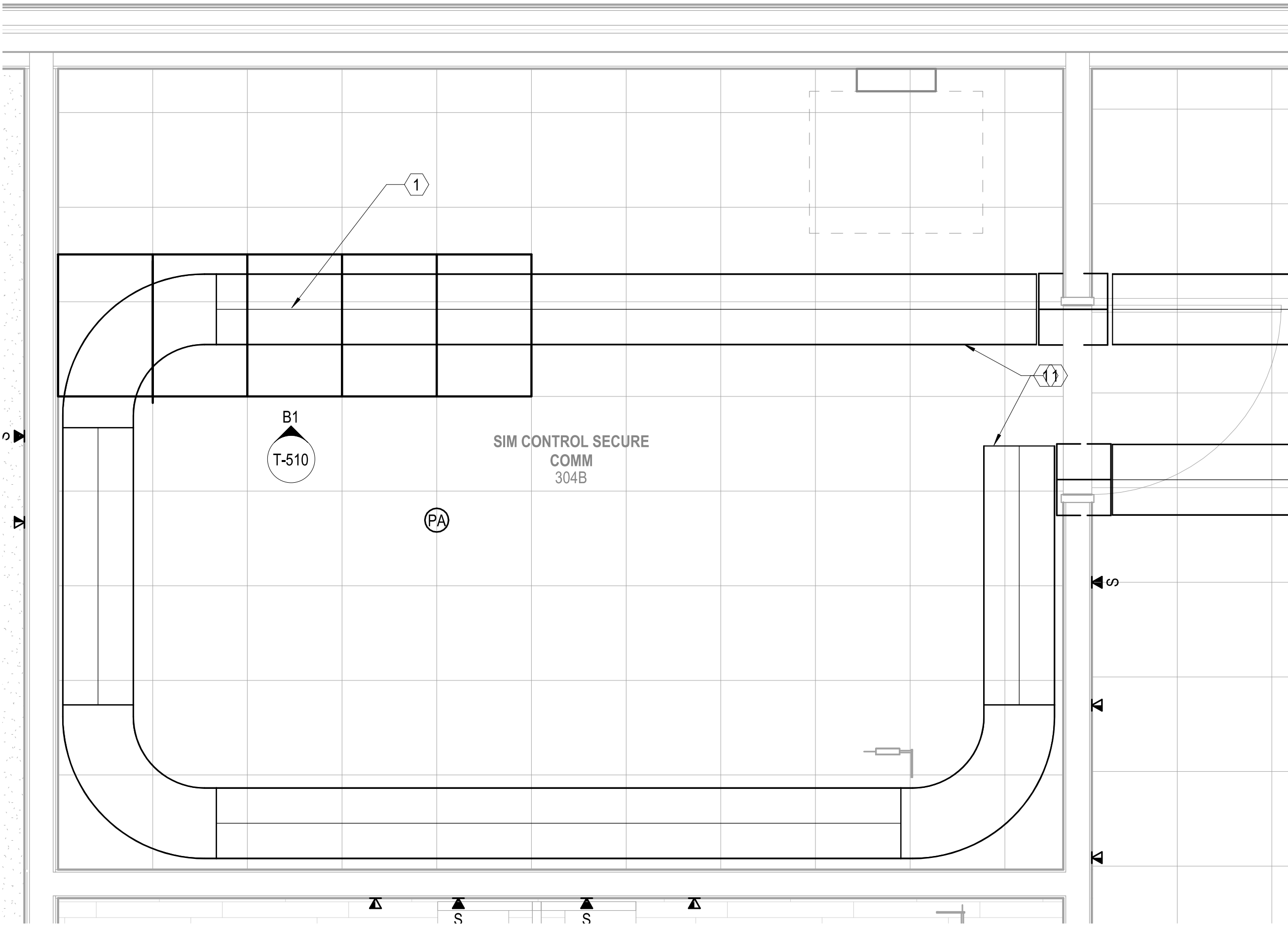
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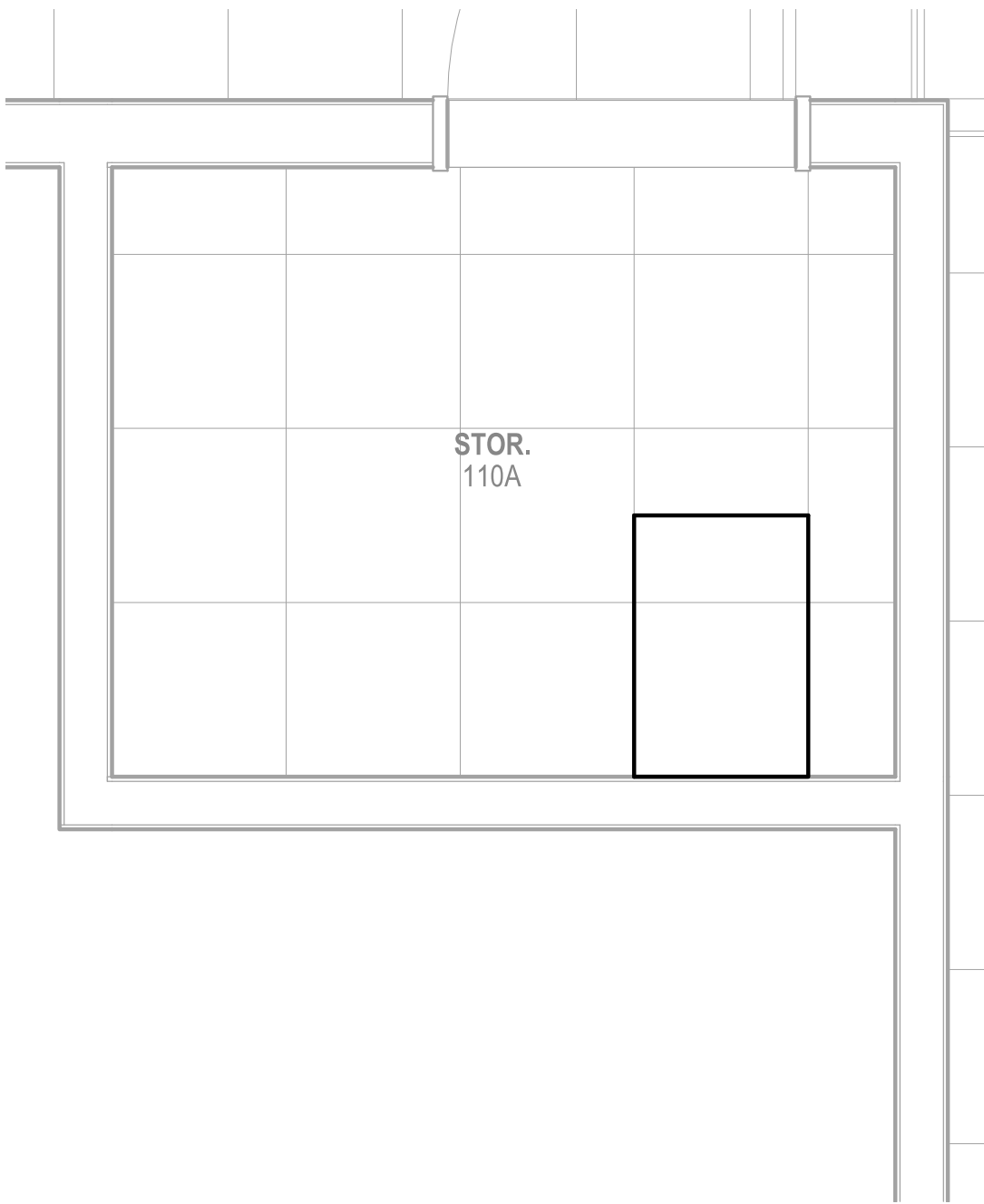
A



TELECOMMUNICATIONS - ENLARGED ROOM 304B OVERHEAD TRAY LAYOUT

SCALE: 1/2" = 1'-0"

T-111 B1



TELECOMMUNICATIONS - ENLARGED ROOM 110A OVERHEAD TRAY LAYOUT

SCALE: 1/2" = 1'-0"

T-111

B3

GENERAL NOTES

- SEE SHEET T-001 FOR TELECOMMUNICATIONS NOTES, SYMBOLS, AND ABBREVIATIONS.
- CONTRACTOR TO PROVIDE ALL PA SYSTEM REQUIREMENTS, TO INCLUDE PATHWAYS, CONDUITS, JUNCTION BOXES, WIRING, CABLING, SPEAKERS, AND SYSTEM COMPONENTS.

KEYNOTES

- 18" X 4" WIRE BASKET STYLE CABLE TRAY MOUNTED ABOVE CABINET, WITH RADIUS SPILLOUTS INTO CABINETS



PRELIMINARY
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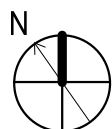
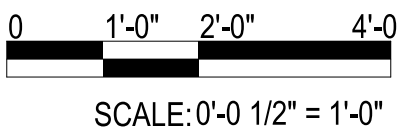


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FOR COMMANDER NAVFAC
ACTIVITY
MARINE CORPS BASE
CAMP LEJEUNE
SATISFACTORY TO DATE
DES JTE DRWETH CHK JMS
PM
BRANCH MANAGER
CHIEF ENGINEER
FIRE PROTECTION

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND ATLANTIC
ATLANTIC DESIGN AND CONSTRUCTION
NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND ATLANTIC
NORFOLK, VA
MOB CAMP LEJEUNE
JACKSONVILLE, NC
P1338 II MEF SIMULATION/TRAINING CENTER
REPLACEMENT
TELECOMMUNICATIONS - ENLARGED PLANS

SCALE: AS NOTED
EPROJECT NO.: 1590892
CONSTR. CONTR. NO.
N40085-20-C-0059
NAVFAC DRAWING NO.
SHEET OF
T-403



DP1 UPDATES WITH DP2 FINAL SUBMISSION

UNCLASSIFIED

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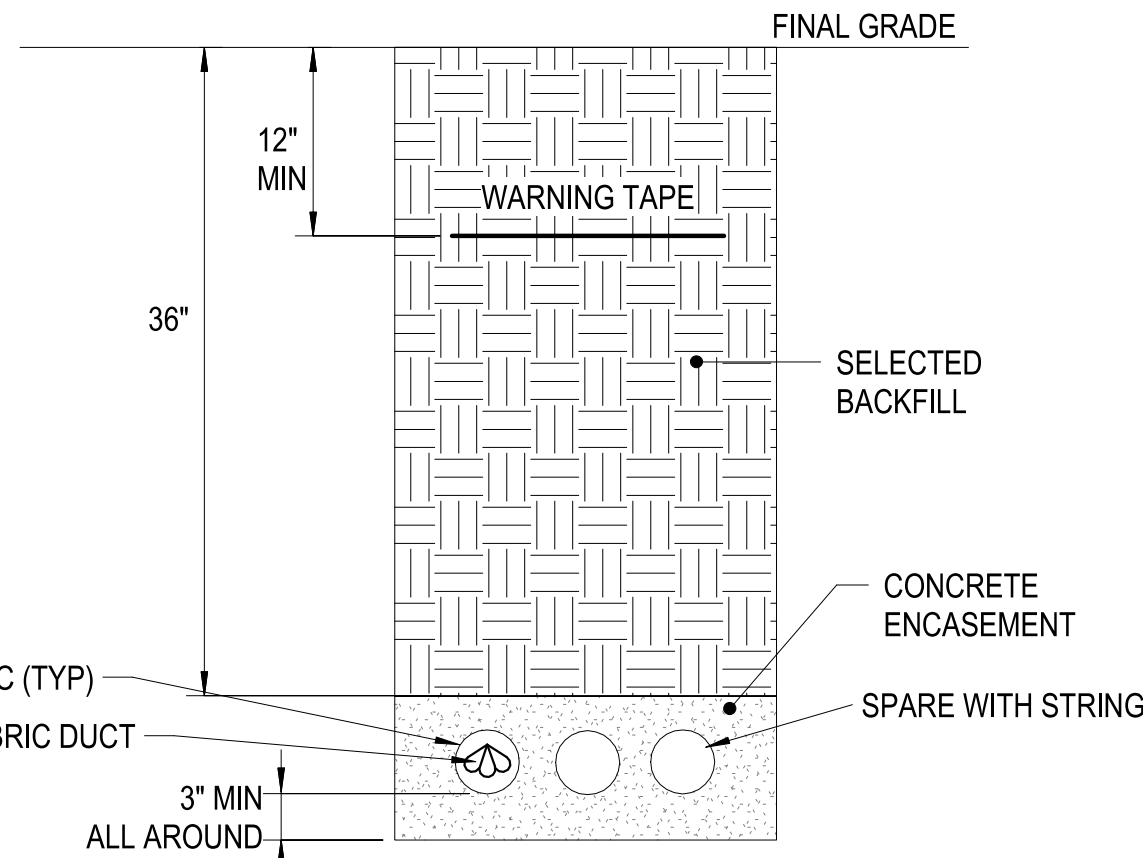
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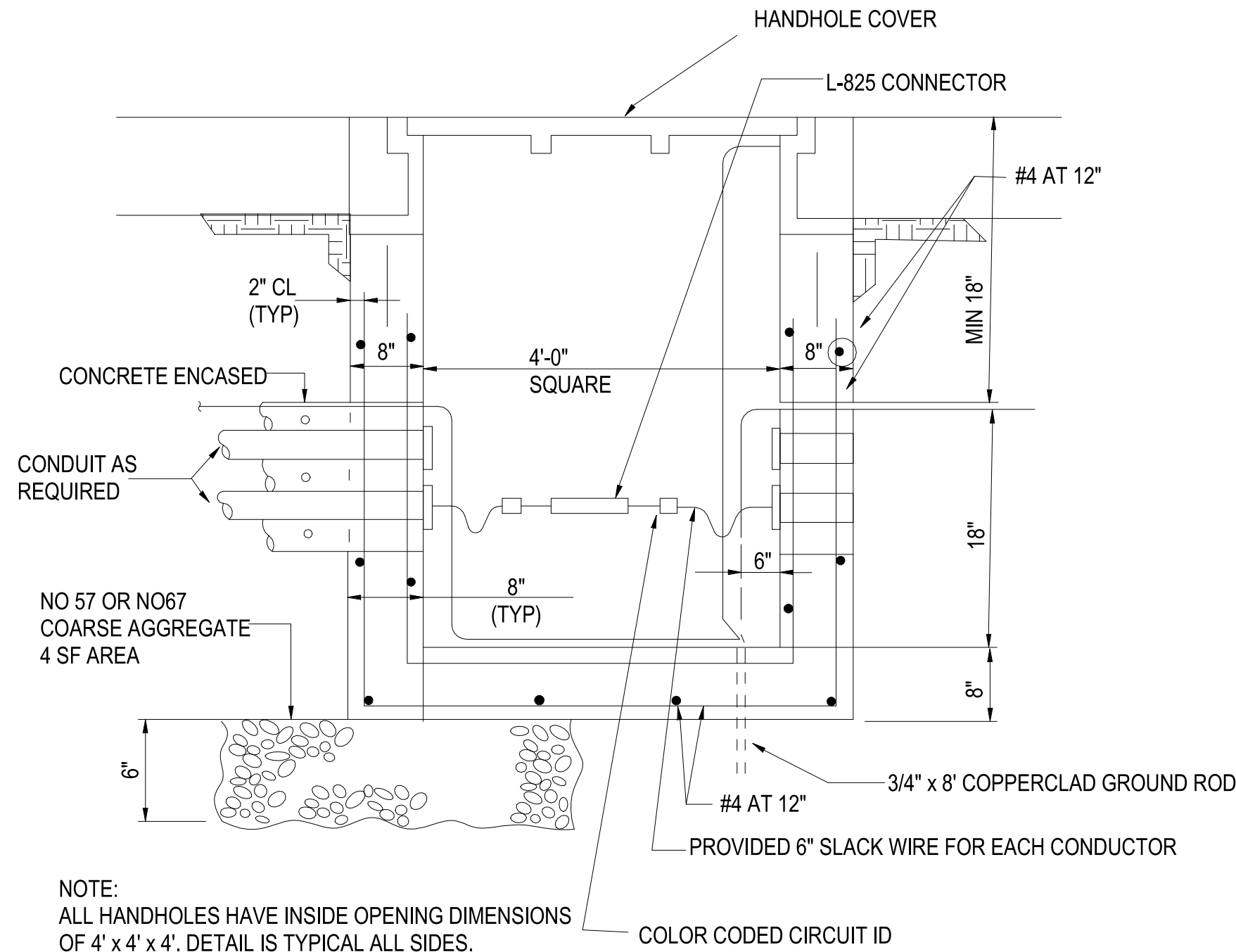
A



3-WAY 4" CONDUIT
CONCRETE ENCASED
DUCTBANK

SCALE:NTS

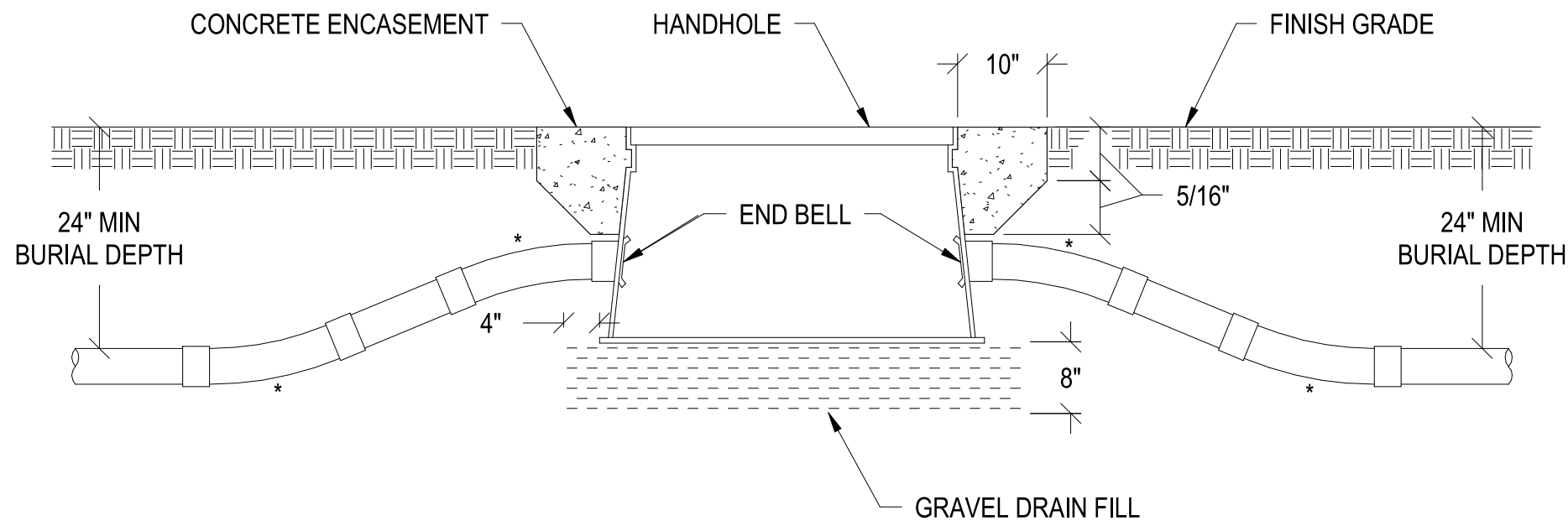
C1



TYPICAL HANDHOLE DETAIL

SCALE:NTS

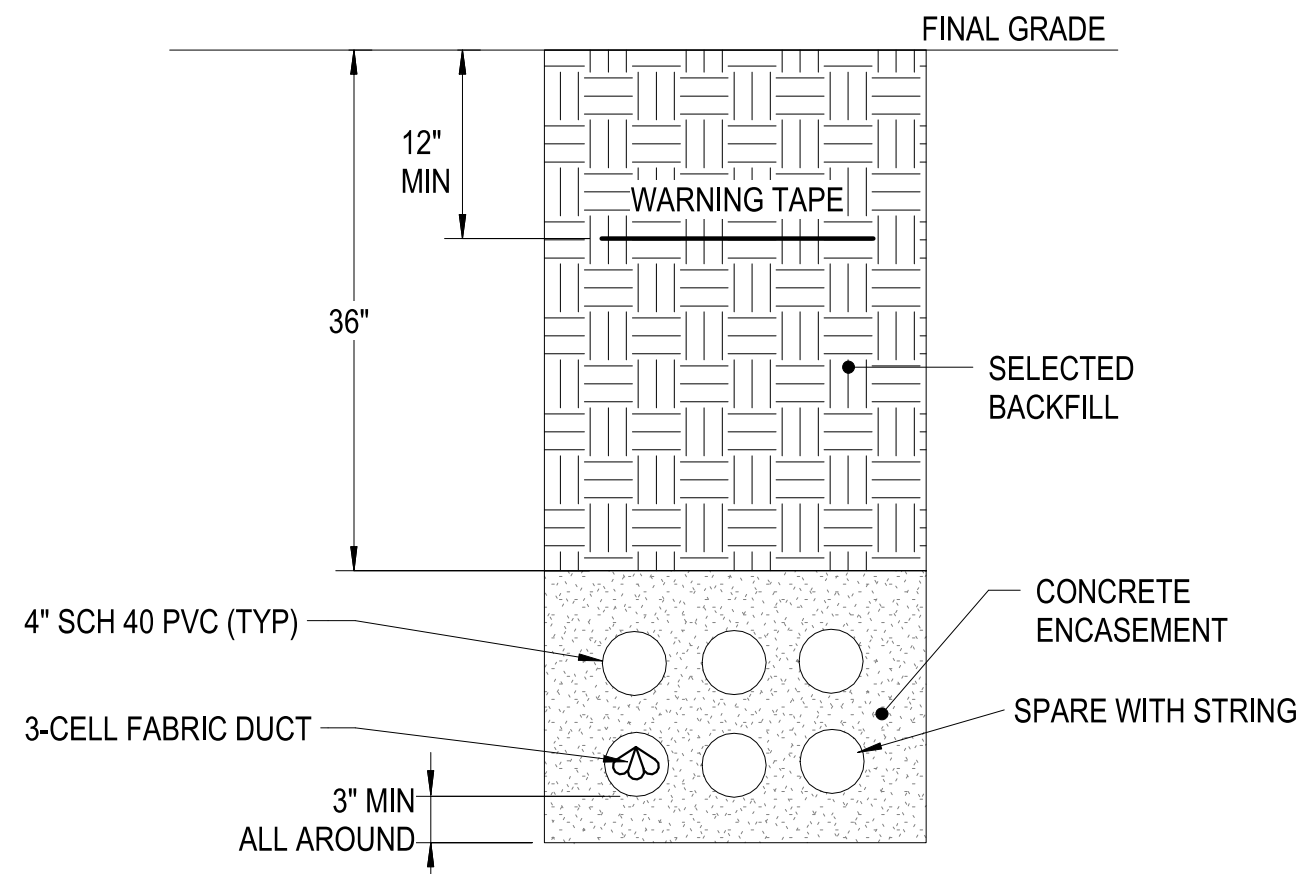
C2



TYPICAL HANDHOLE ENTRY

SCALE: 12" = 1'-0"

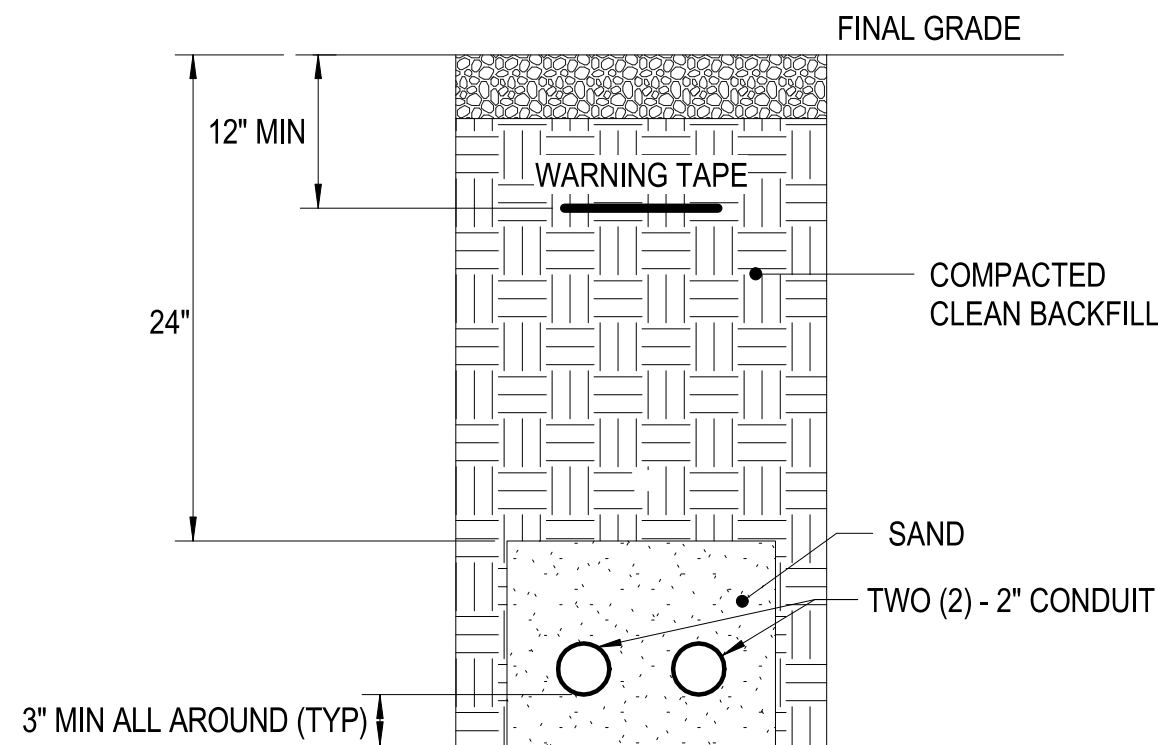
C4



6-WAY 4" CONDUIT
CONCRETE ENCASED
DUCTBANK

SCALE:NTS

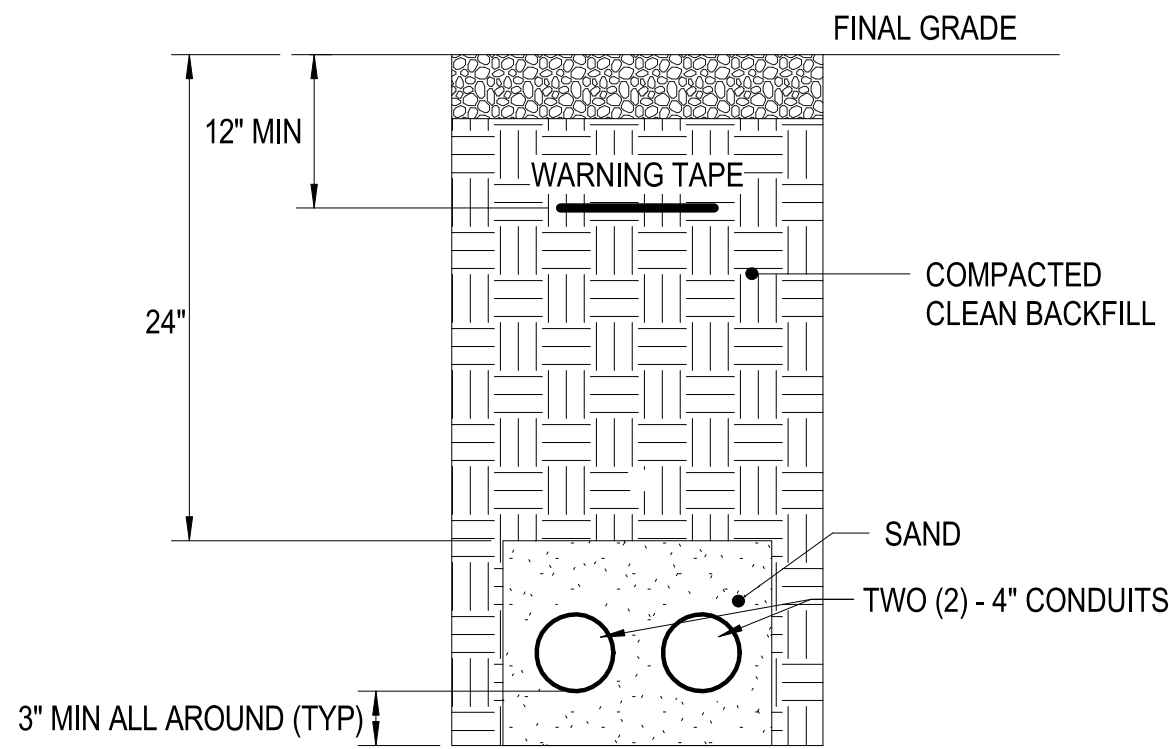
A1



2-WAY 2" CONDUIT
CONCRETE ENCASED
DUCTBANK

SCALE:NTS

A2



2-WAY 4" CONDUIT
CONCRETE ENCASED
DUCTBANK

SCALE:NTS

A4



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INTERNATIONAL

100 AIRSIDE DRIVE
MOON TOWNSHIP, PA 15108
APPROVED

FOR COMMANDER NAVFAC

ACTIVITY
MARINE CORPS BASE
CAMP LEJEUNE

SATISFACTORY TO DATE

DES. JTE. DRW. CHK. JMS.

PM

BRANCH MANAGER

CHIEF ENGINEER

FIRE PROTECTION

NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND
ATLANTIC DESIGN AND CONSTRUCTION

NAVFAC CAMP LEJEUNE
JACKSONVILLE, NC

P1338 II MEF SIMULATION/TRAINING CENTER
REPLACEMENT

TELECOMMUNICATIONS - DETAILS

SCALE: AS NOTED

EPROJECT NO.: 1590892

CONSTR. CONTR. NO.
N40085-20-C-0059

NAVFAC DRAWING NO.

SHEET OF

T-501

DP1 UPDATES WITH DP2 FINAL SUBMISSION

UNCLASSIFIED

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UNCLASSIFIED

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UNCLASSIFIED
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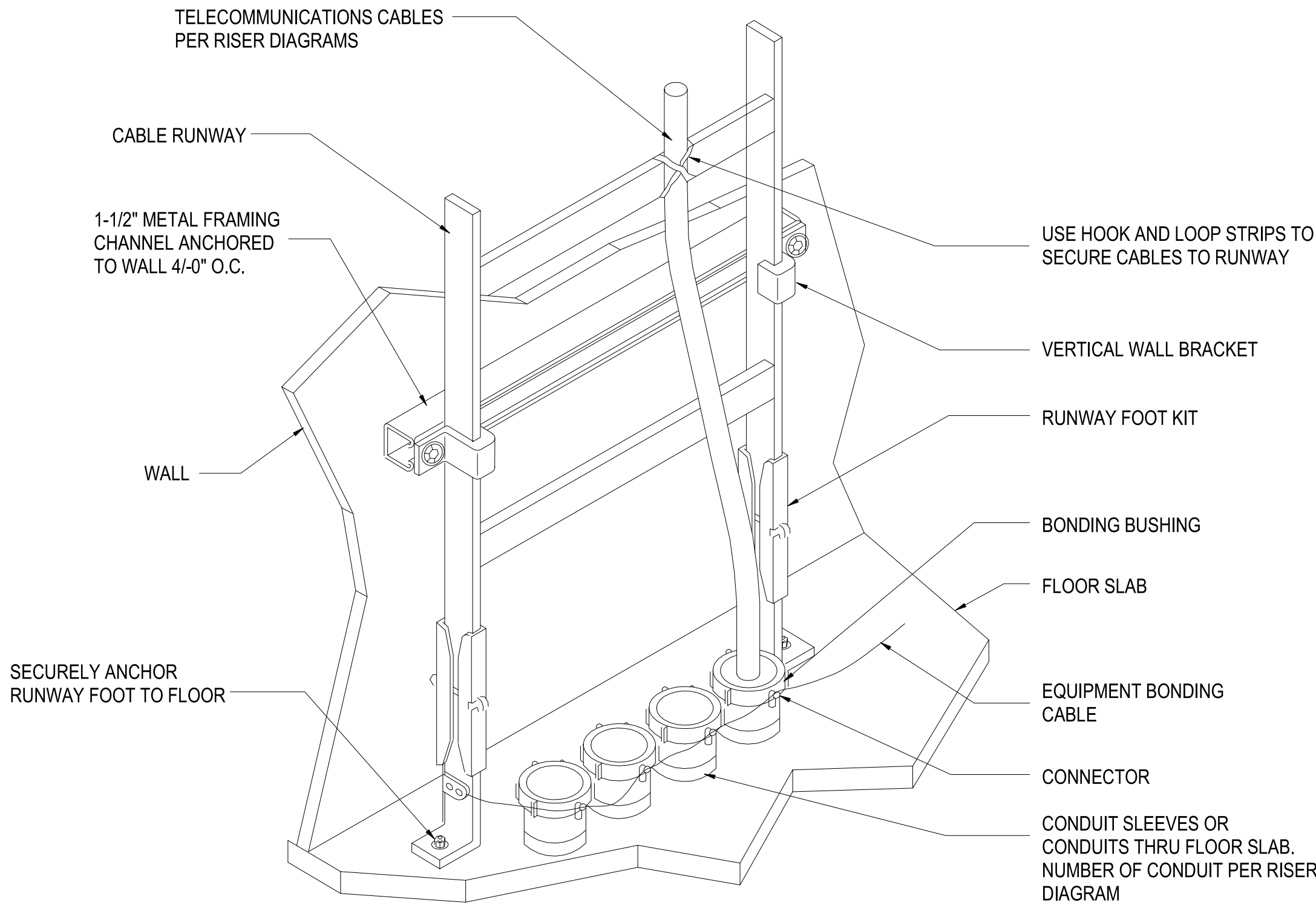
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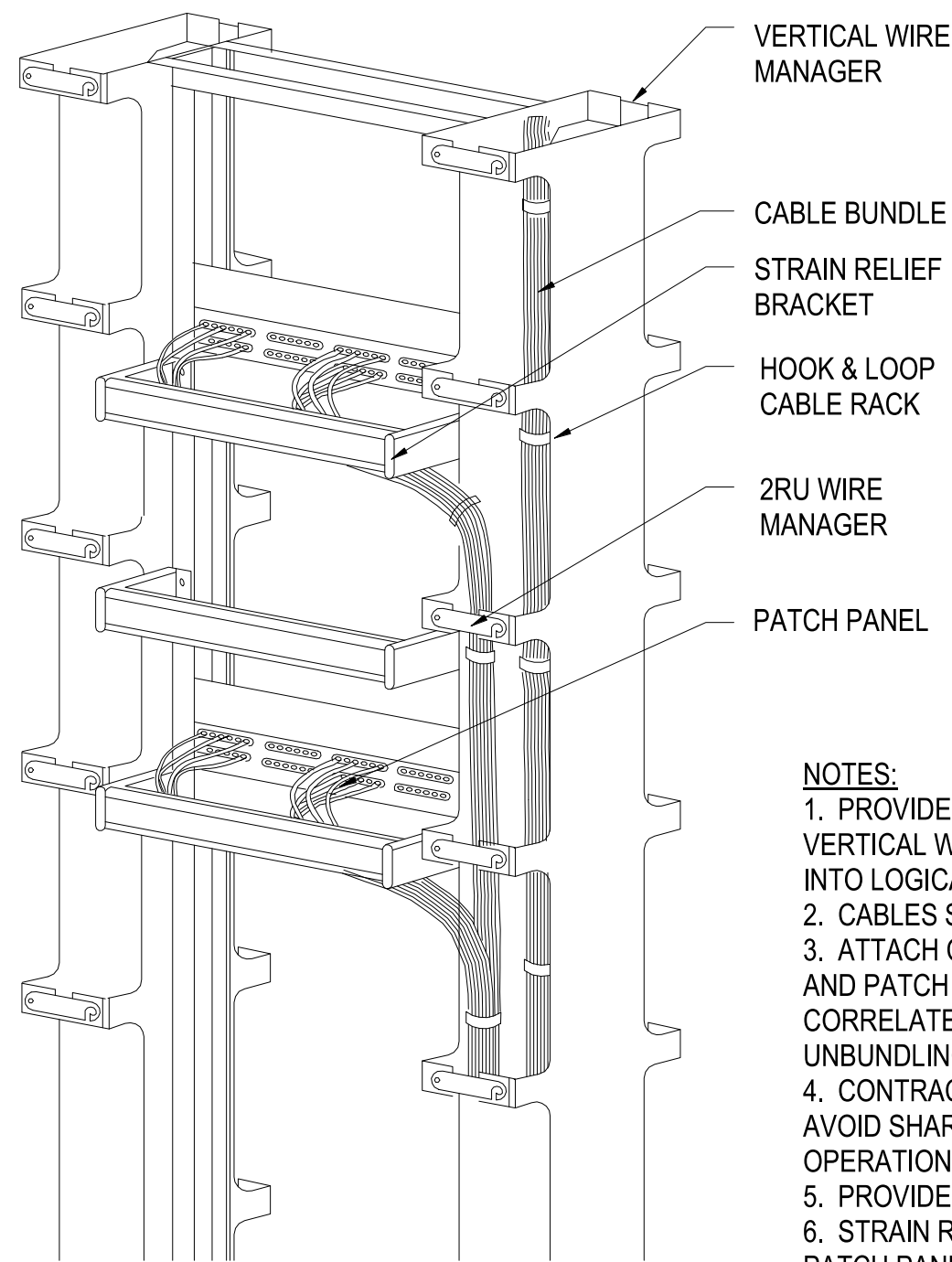
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CABLE - VERTICAL RUNWAY MOUNTING

SCALE:NTS

C1



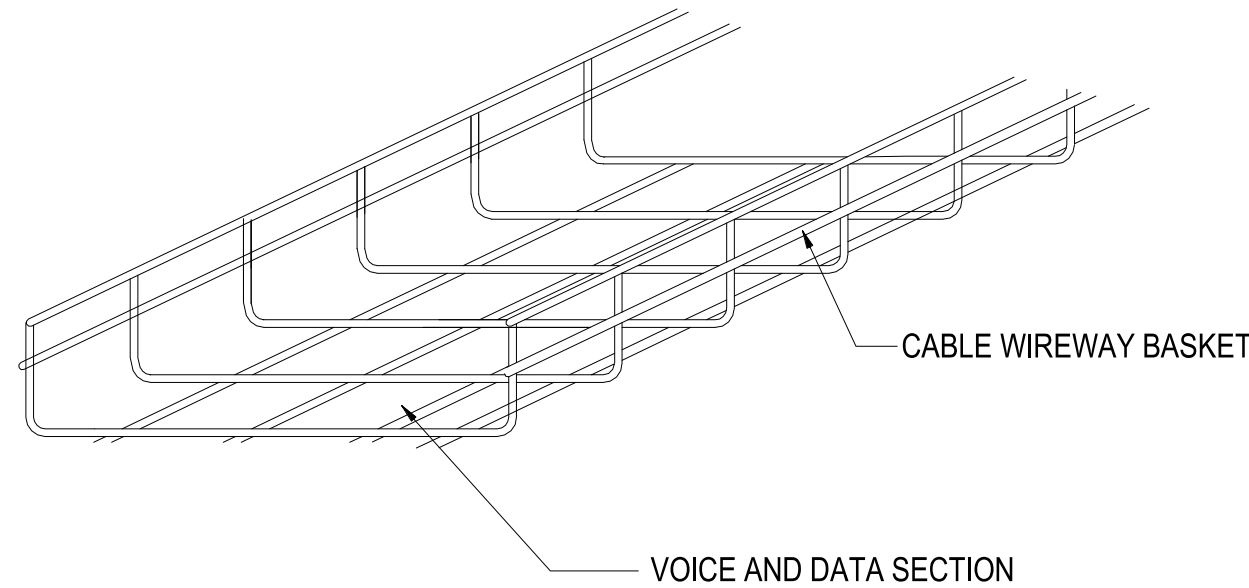
NOTES:

1. PROVIDE CABLE WRAPS ON MINIMUM 12" CENTERS IN VERTICAL WIRE MANAGERS. CABLES SHALL BE BUNDLED INTO LOGICAL GROUPS.
2. CABLES SHALL BE SECURED TO STRAIN RELIEF BRACKET
3. ATTACH CABLE LABEL BETWEEN STRAIN RELIED BRACKET AND PATCH PANEL SO THE LABEL CAN BE READ AND CORRELATED TO PATCH PANEL PORT WITHOUT UNBUNDLING ADJACENT CABLES.
4. CONTRACTOR SHALL ROUTE ALL CABLE BUNDLES TO AVOID SHARP BENDS, AND PINCH POINTS AND ALLOW LATCH OPERATION ON VERTICAL WIRE MANAGER.
5. PROVIDE PROPER QUANTITY OF PATCH PANELS.
6. STRAIN RELIEF BRACKET SHALL BE A MINIMUM OF 6" BEHIND PATCH PANEL.

CABLE STRAIN RELIEF DETAIL

SCALE:NTS

A1



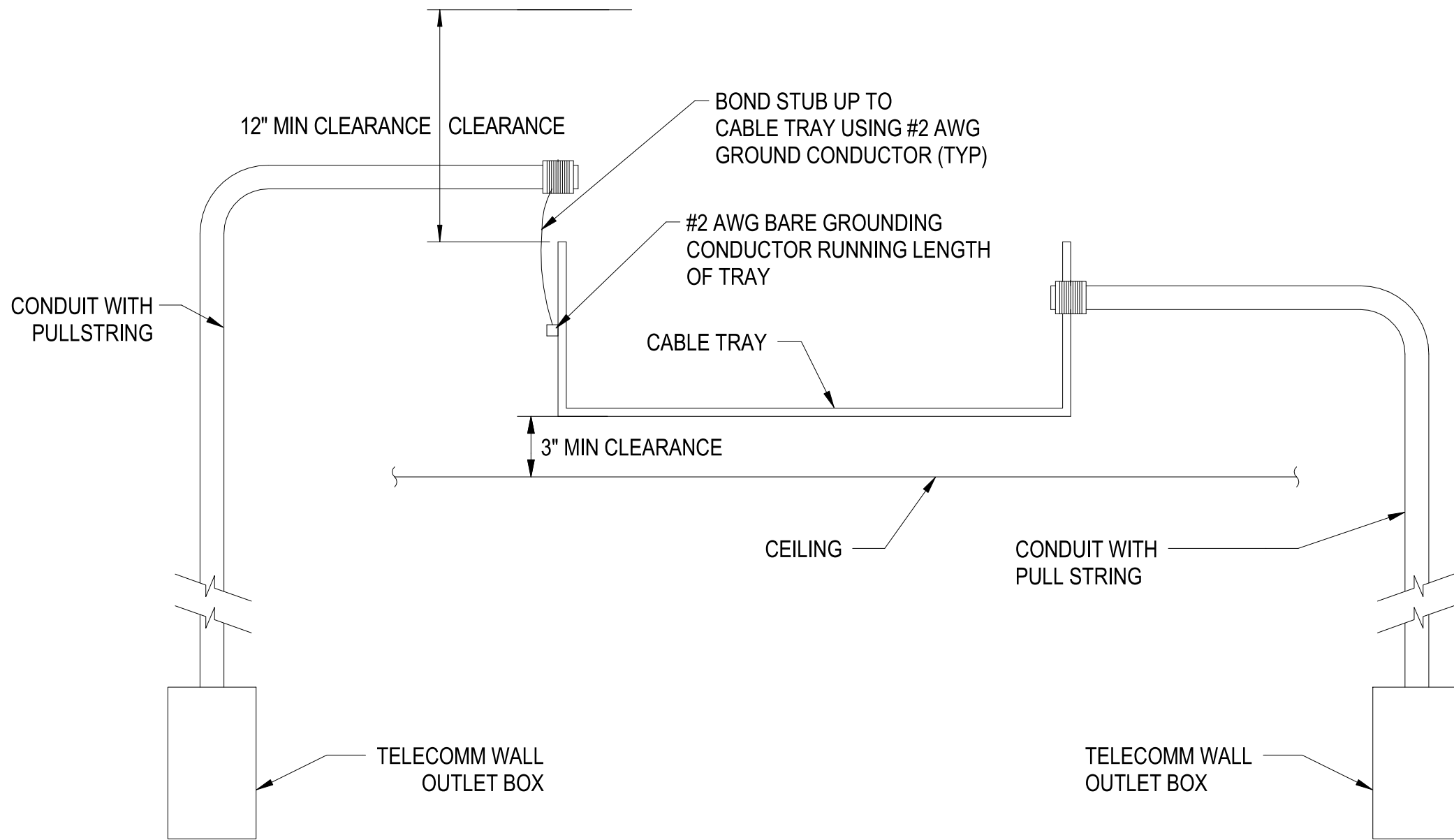
NOTES:

1. PRIMARY PATHWAY CABLE SUPPORTS ARE TO BE USED AS NECESSARY FOR CABLES TO COMPLY WITH THE EIA/TIA REQUIREMENTS FOR CABLE SUPPORT. OTHER ALTERNATIVES MUST BE SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO INSTALLATION.
2. CABLE WIREWAYS SHALL BE MOUNTED ABOVE ACOUSTICAL TILE CEILING IN CORRIDORS. CABLE WIREWAY SHALL BE SUPPORTED WITH UNISTRUT AND THREADED RODS IN A TRAPEZE CONFIGURATION. THREADED RODS SHALL BE SECURELY FASTENED TO STRUCTURE ABOVE. SUPPORT CABLE WIREWAY AT INTERVALS AS REQUIRED AND RECOMMENDED BY THE CABLE WIREWAY MANUFACTURER BASED ON MAXIMUM CAPACITY OF CABLES IN WIREWAY.
3. REFER TO MANUFACTURER'S RECOMMENDATIONS FOR MAX LOADING, APPLICATION REQUIREMENTS, AND SECURING TO STRUCTURE.
4. ALL CABLE SUPPORTS SHALL BE SPECIFICALLY MANUFACTURED TO SUPPORT HIGH SPEED COMMUNICATIONS CABLES.

CABLE - WIRE BASKET (PRIMARY PATHWAY)

SCALE:NTS

C3



BASKET CABLE TRAY TO OUTLET CONDUIT TRANSITION

SCALE:NTS

A3

DATE	APPR
DESCRIPTION	SYM
PRELIMINARY FOR REFERENCE ONLY	
Michael Baker INTERNATIONAL 100 AIRSIDE DRIVE MOON TOWNSHIP, PA 15108 APPROVED	
FOR COMMANDER NAVFAC	
ACTIVITY MARINE CORPS BASE CAMP LEJEUNE	
SATISFACTORY TO DATE	
DES / ITC	DRW WITH
PM	CHK / ASD
BRANCH MANAGER	
CHIEF ENGINEER	
FIRE PROTECTION	
NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND ATLANTIC DESIGN AND CONSTRUCTION NAVFAC CAMP LEJEUNE JACKSONVILLE, NC P1338 II MEF SIMULATION/TRAINING CENTER REPLACEMENT TELECOMMUNICATIONS - DETAILS	
SCALE: AS NOTED	
EPROJCT NO.: 1590892	
CONSTR. CONTR. NO. N40085-20-C-0059	
NAVFAC DRAWING NO.	
SHEET OF	
T-502	

DP1 UPDATES WITH DP2 FINAL SUBMISSION

UNCLASSIFIED

1

2

UNCLASSIFIED
3

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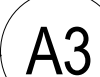
(B1)



A1



C3



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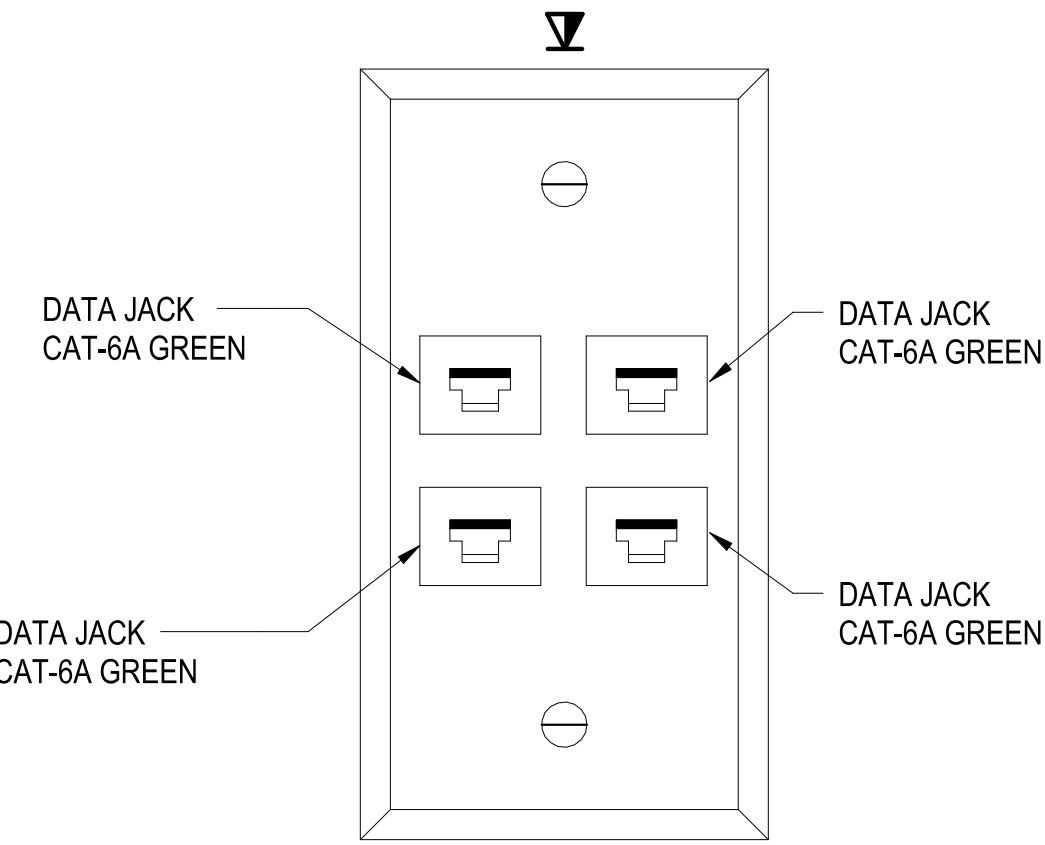
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UNCLASSIFIED

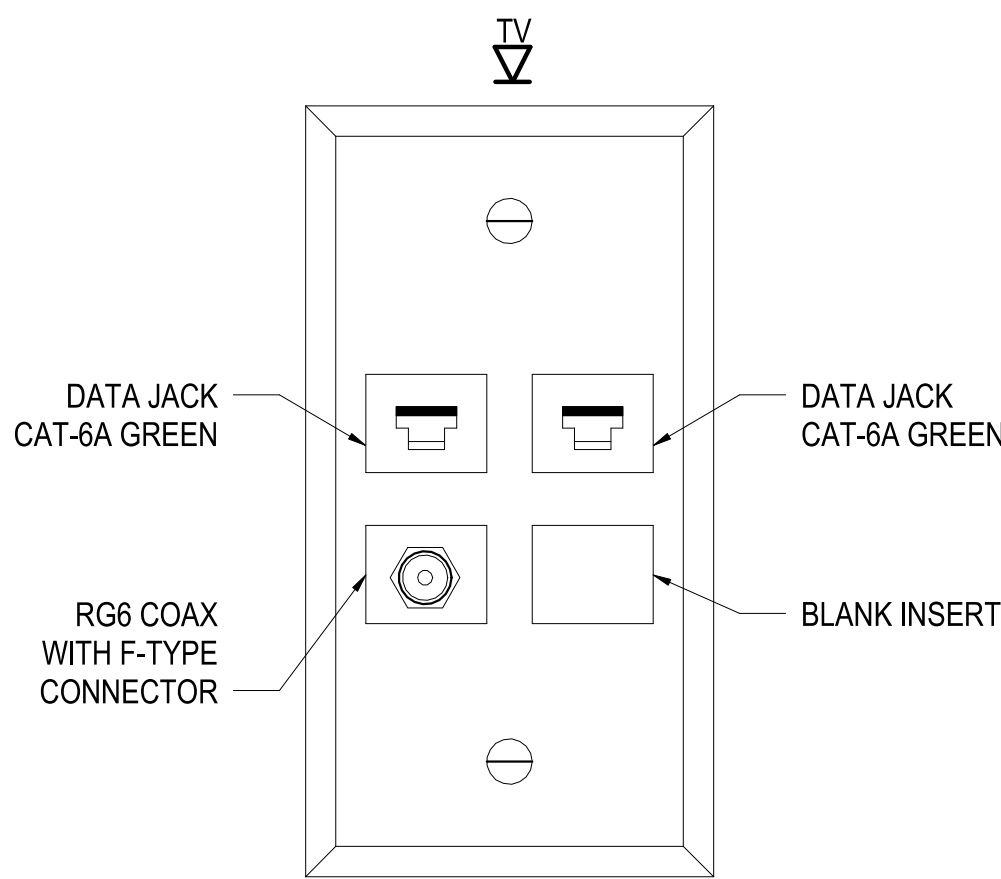
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DP1 UPDATES WITH DP2 FINAL SUBMISSION



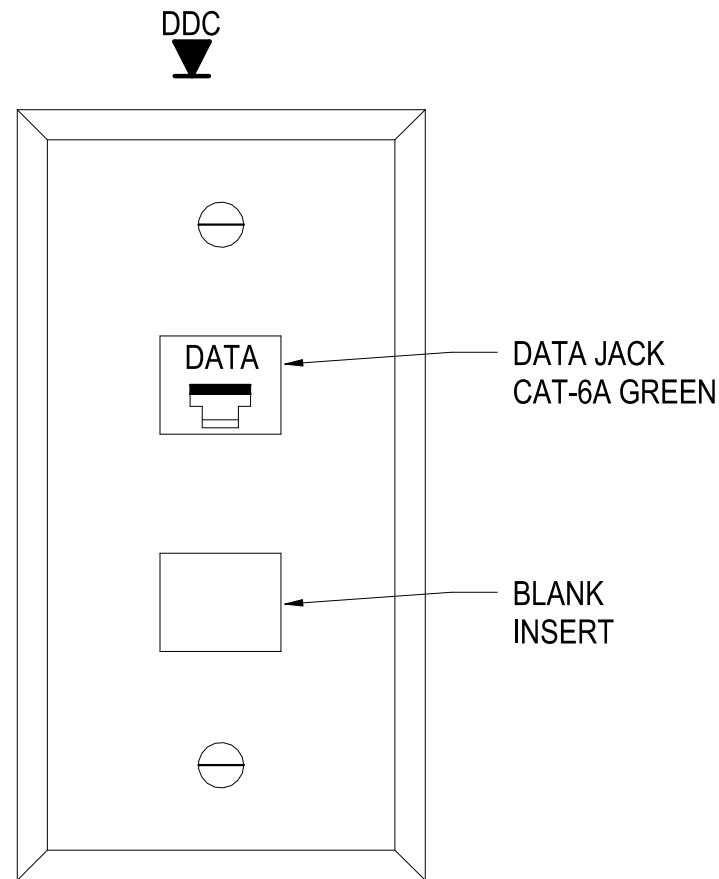
TELECOMMUNICATIONS
QUAD OUTLET
SCALE:NTS

C1



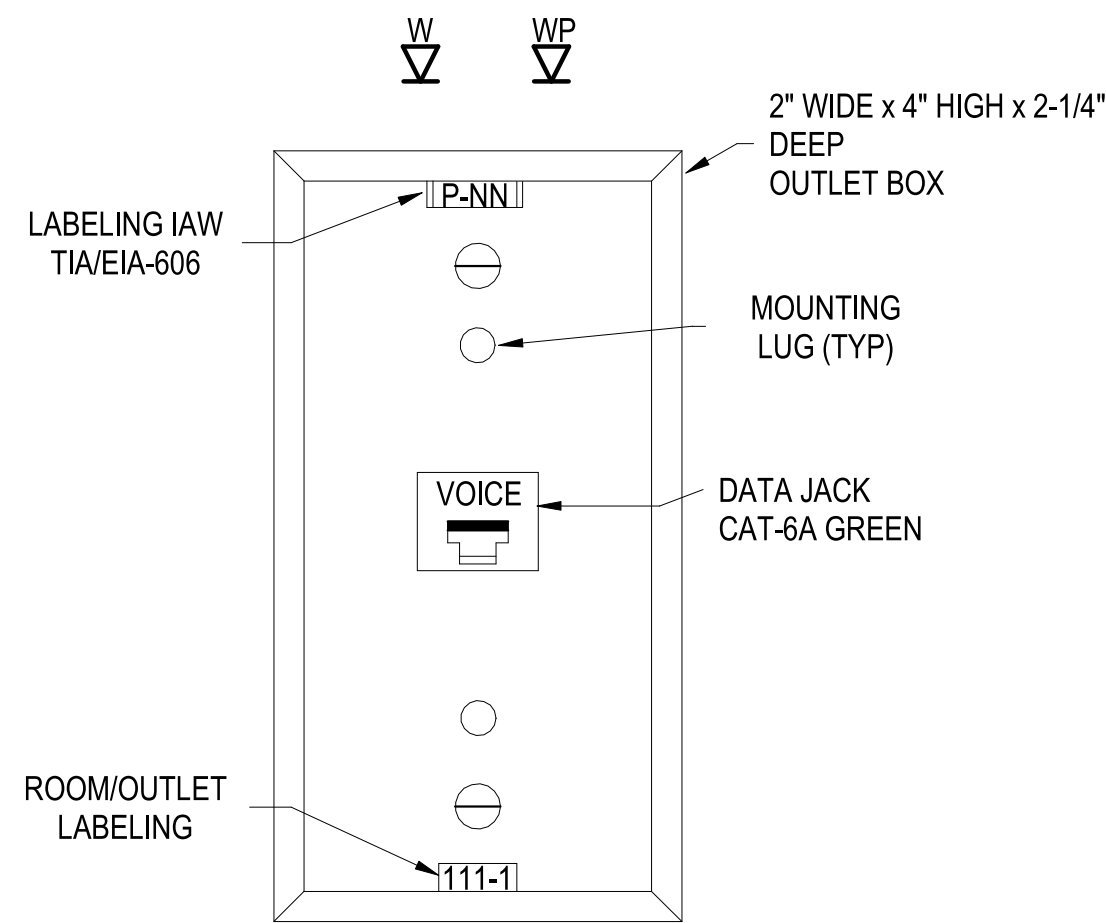
WALL MOUNTED DISPLAY
OUTLET
SCALE:NTS

C2



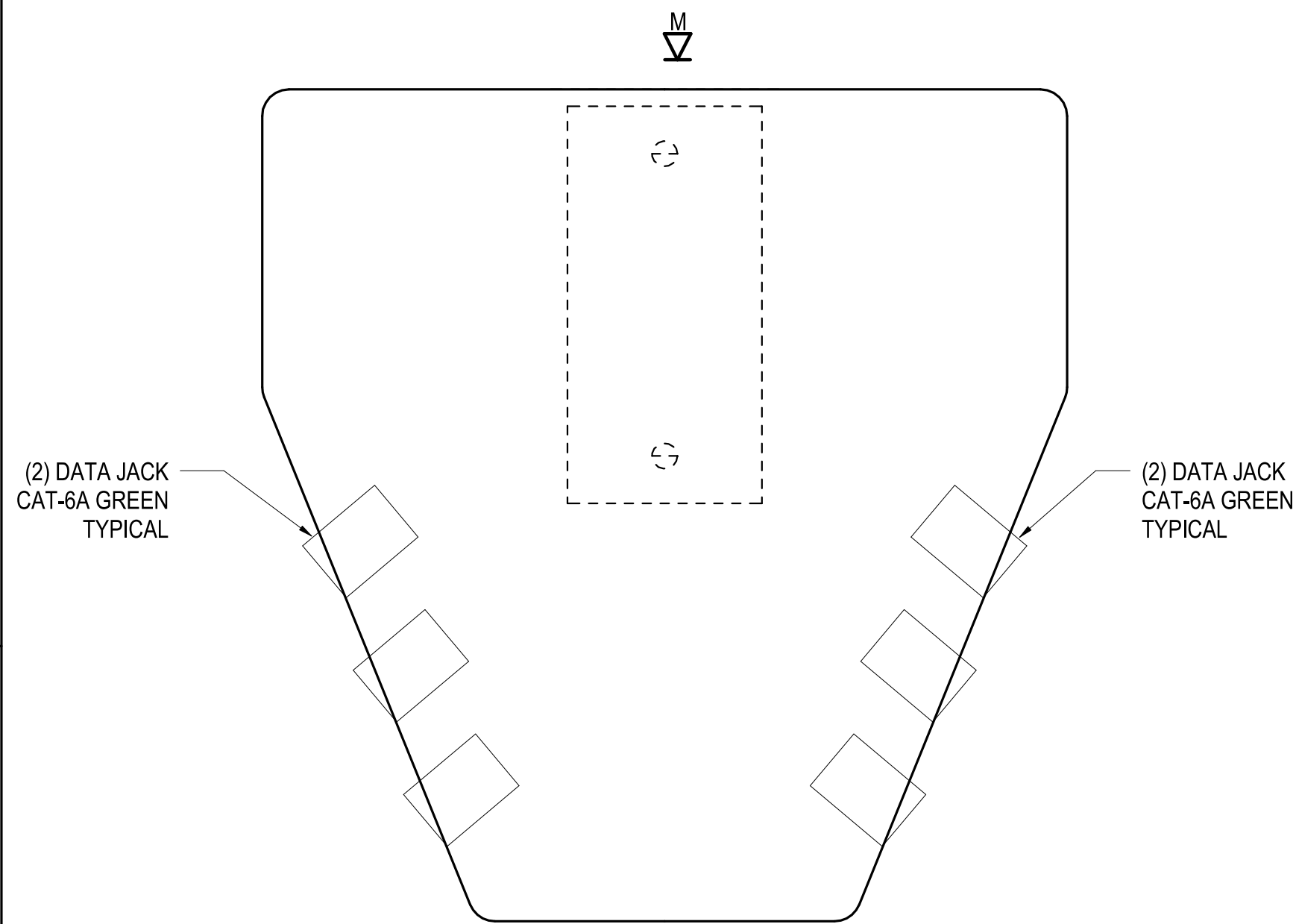
DDC OUTLET
SCALE:NTS

C3



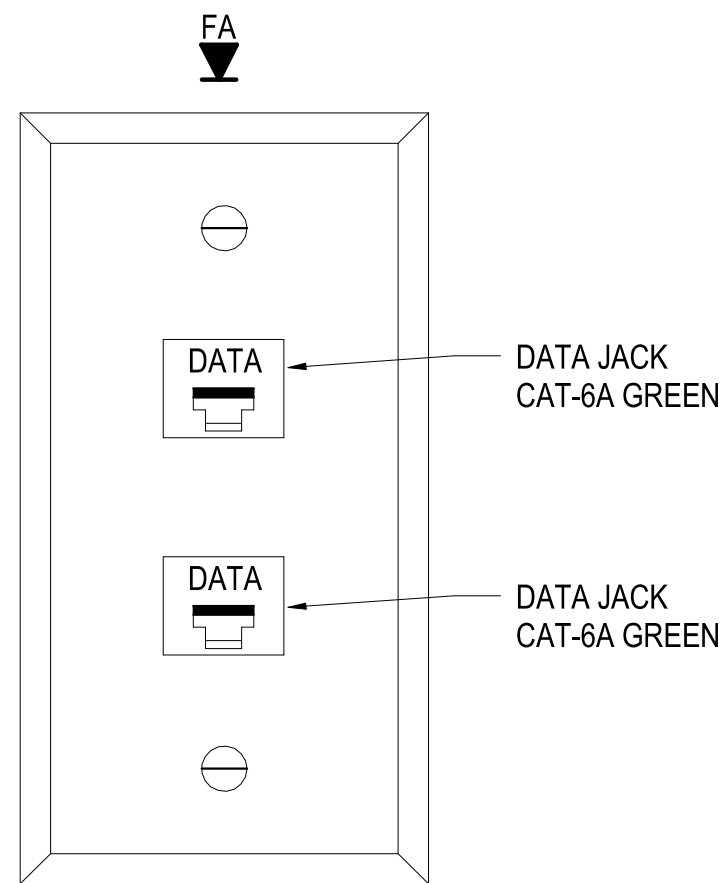
WALL PHONE OUTLET
SCALE:NTS

C4



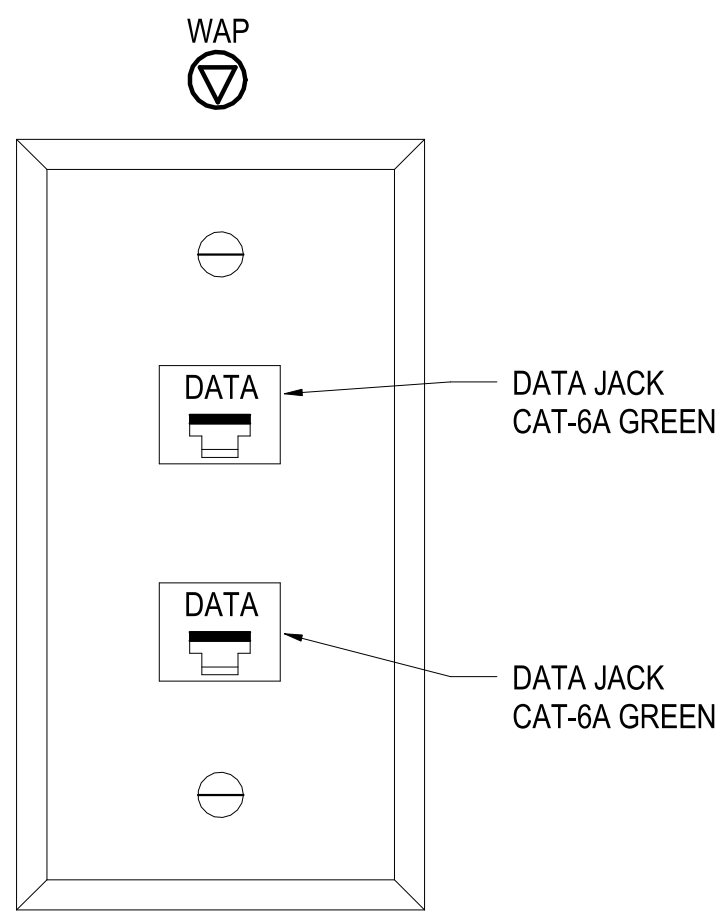
MULTI-USER TELECOM
OUTLET ASSEMBLY (MUTOA),
12-PORT
SCALE:NTS

A1



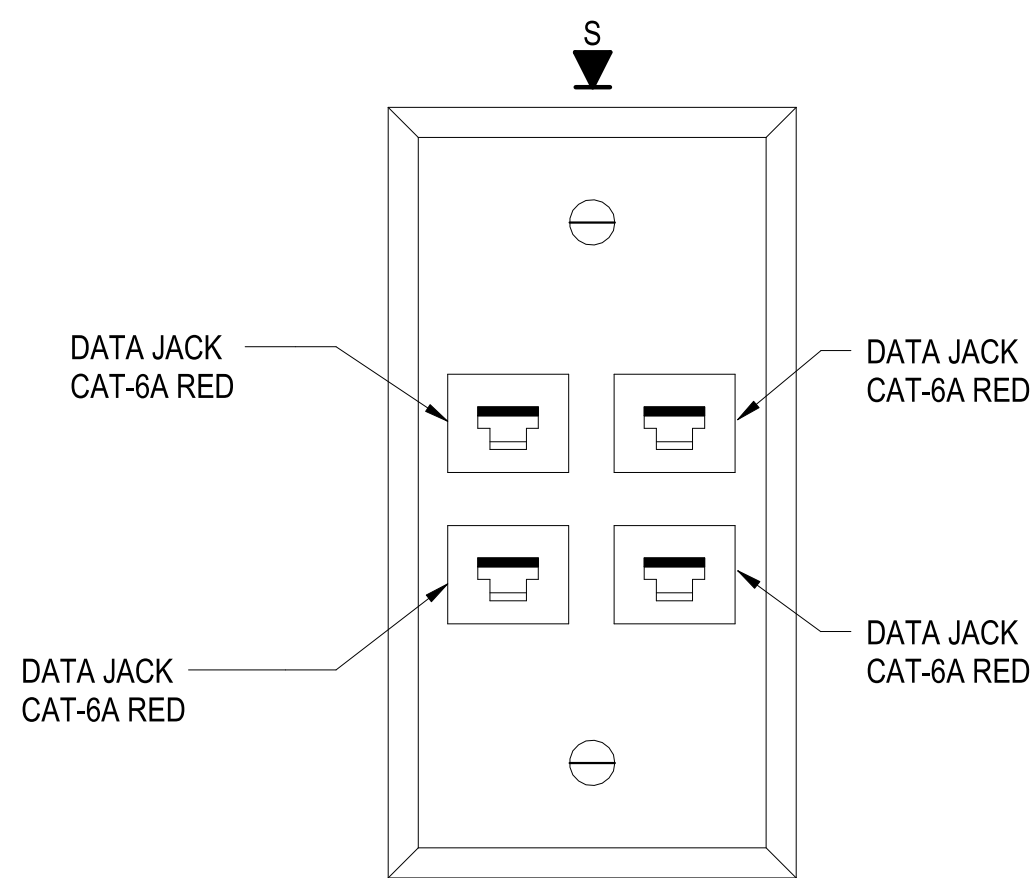
FIRE ALARM INTERFACE
OUTLET
SCALE:NTS

A2



WAP ICT OUTLET FOR
ENCLOSURE
SCALE:NTS

A3



TELECOMMUNICATIONS
QUAD OUTLET - SIPRNET
SCALE:NTS

A4



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Michael Baker
INTERNATIONAL

100 AIRSIDE DRIVE
MOON TOWNSHIP, PA 15108
APPROVED

FOR COMMANDER NAVFAC

ACTIVITY
MARINE CORPS BASE
CAMP LEJEUNE

SATISFACTORY TO DATE

DES. JTE. DRWETH. CHK. JMS.

PM

BRANCH MANAGER

CHIEF ENGINEER

FIRE PROTECTION

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND
ATLANTIC DESIGN AND CONSTRUCTION
NAVFAC CAMP LEJEUNE
ATLANTIC DESIGN AND CONSTRUCTION
NAVFAC CAMP LEJEUNE
JACKSONVILLE, NC
P1338 II MEF SIMULATION/TRAINING CENTER
REPLACEMENT
TELECOMMUNICATIONS - DETAILS

SCALE: AS NOTED
EPROJECT NO.: 1590892
CONSTR. CONTR. NO. N40085-20-C-0059
NAVFAC DRAWING NO.
SHEET OF

T-504

PLOTTED: 9/1/2021 3:33:22 PM

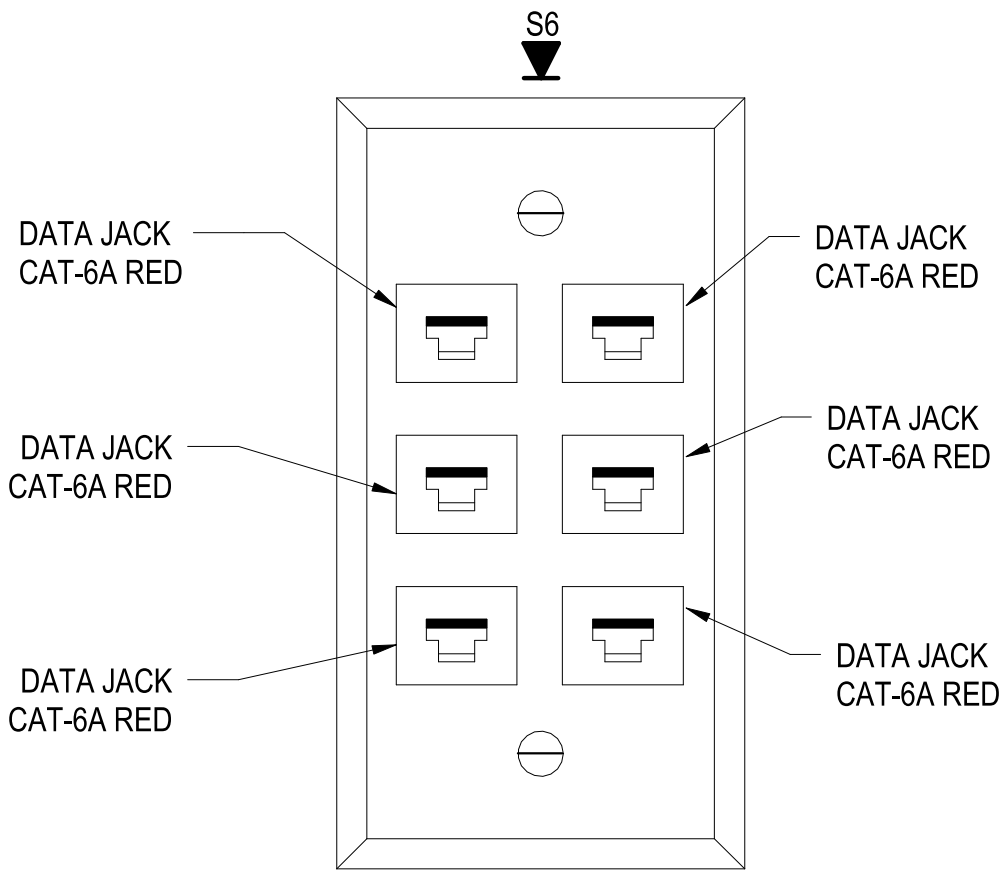
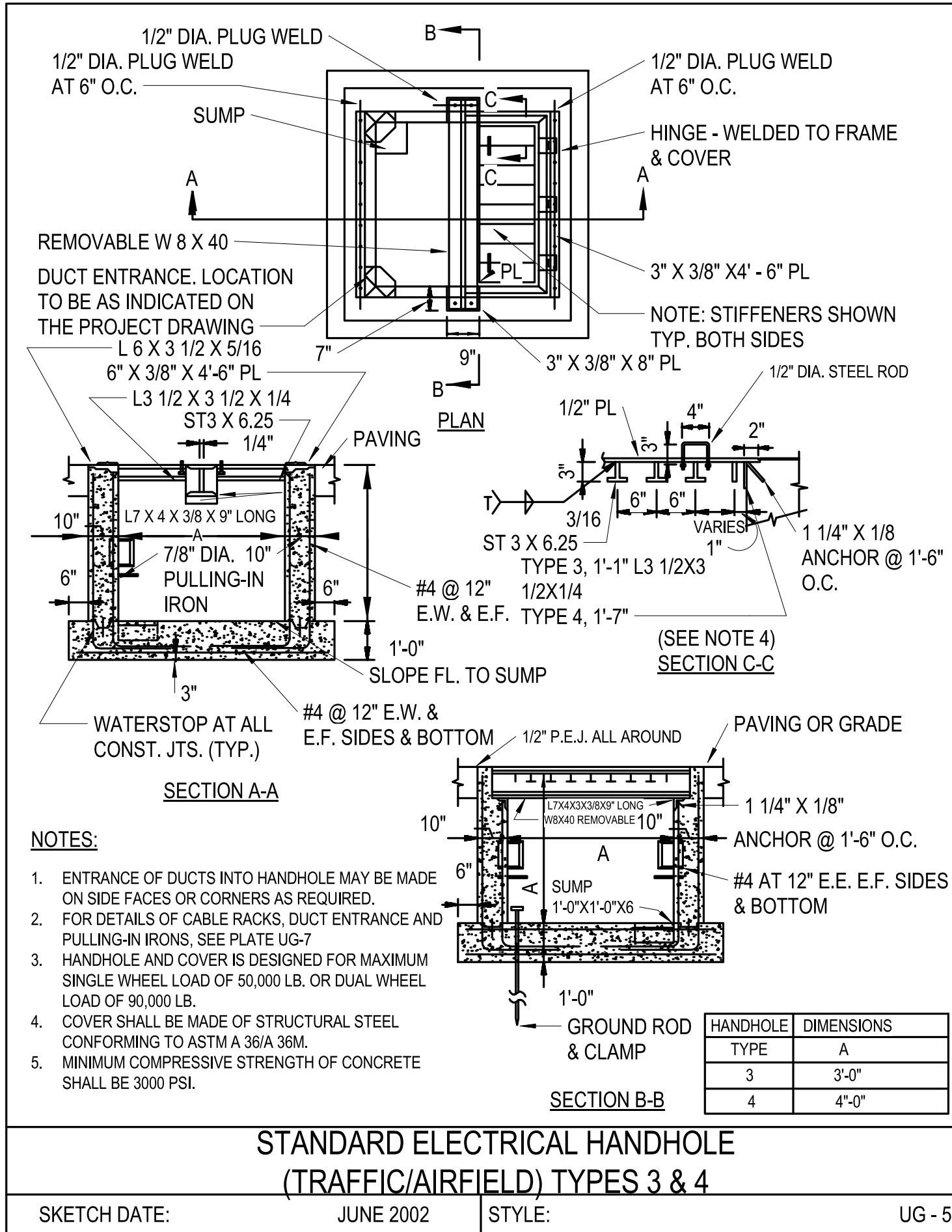
FILE NAME: BIM 360/HF PACKAGE 3/PT1338 MEF SIM CTR-1590892-E-N4

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TELECOMMUNICATIONS
SIX-PORT FACEPLATE -
SIPRNET

SCALE:NTS

C2

SYN	DESCRIPTION	DATE	APPR



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ACTIVITY
MARINE CORPS BASE
CAMP LEJEUNE

SATISFACTORY TO DATE

DES	JTE	DRW	ETH	CHK	JMS

PM

BRANCH MANAGER

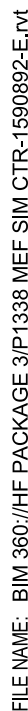
CHIEF ENGINEER

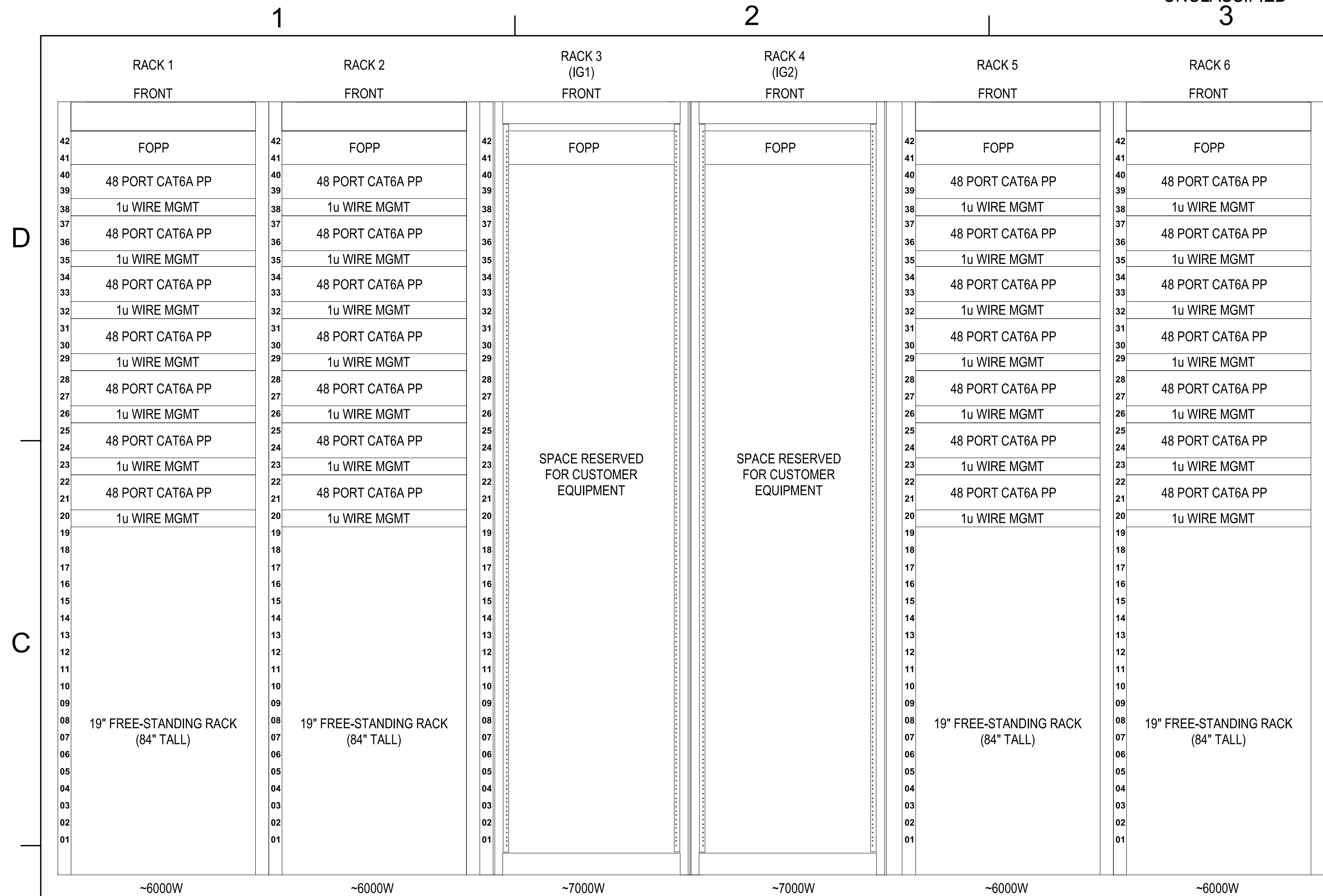
FIRE PROTECTION

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND
ATLANTIC DESIGN AND CONSTRUCTION
NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND ATLANTIC
NORFOLK, VA
MOB CAMP LEJEUNE
JACKSONVILLE, NC
P1338 II MEF SIMULATION/TRAINING CENTER
REPLACEMENT
TELECOMMUNICATIONS - DETAILS

SCALE:	AS NOTED
EPROJECT NO.:	1590892
CONSTR. CONTR. NO.	N40085-20-C-0059
NAVFAC DRAWING NO.	
SHEET	OF
T-505	

DP1 UPDATES WITH DP2 FINAL SUBMISSION



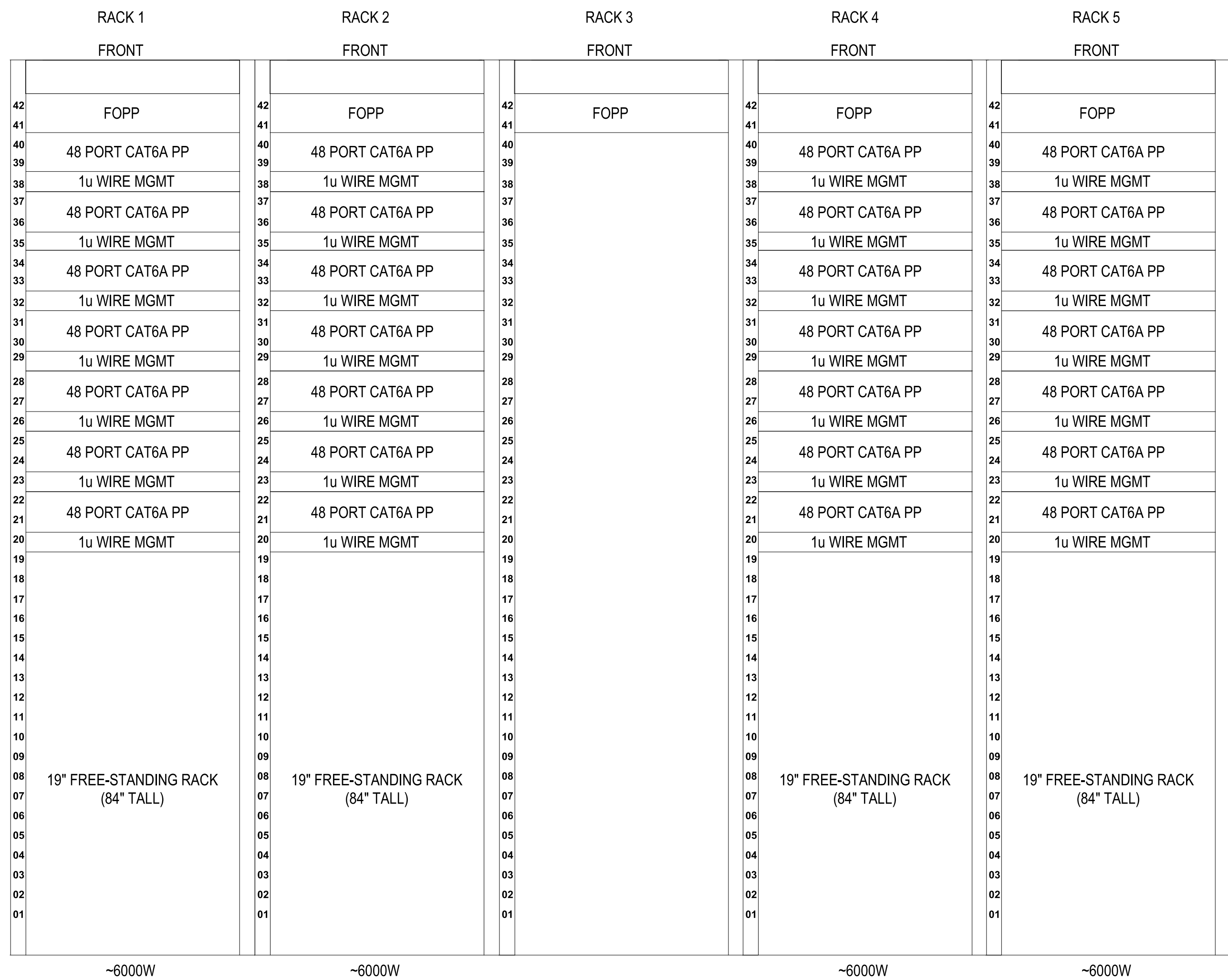


TELECOM RM 133 - CACCTUS (U)

SCALE:NTS

(B1)

NOTE:
PROVIDE AND INSTALL 48-STRAND OM4 MULTIMODE OPTICAL FIBER CABLING BETWEEN SERVER RACK AND SWITCH RACKS FOR EACH NETWORK ENCLAVE (MTWS, CACCTUS, TIE, SIPR, MCEN).



TELECOM RM 133 - SIPR (C)

SCALE:NTS

A3



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FOR COMMANDER NAVFAC
ACTIVITY
MARINE CORPS BASE
CAMP LEJEUNE

ES	ITE	DRW	ETH	CHK	IMP
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CHIEF ENG/ARCH

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R

AND ATLANTA
JACKSON
CENTER

SCALE: AS NOTED

CONSTR. CONTR. NO.

AVFAC DRAWING NO.

SHEET OF

T-508

T-508

FILE NAME: BIM 360/HF PACKAGE 3/P1338 MEF SIM CTR-1590892-E-1.rvt
PLOTTED: 9/1/2021 3:33:30 PM

A

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NOTE:
PROVIDE AND INSTALL 48-STRAND OM4 MULTIMODE OPTICAL FIBER
CABLING BETWEEN SERVER RACK AND SWITCH RACKS FOR EACH
NETWORK ENCLAVE (MTWS, CACCTUS, TIE, SIPR, MCEN).

TELECOM RM 133 - MTWS (U)

SCALE:NTS

B1

UNCLASSIFIED

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TELECOM RM 133 - MCEN (U)

SCALE:NTS

A3

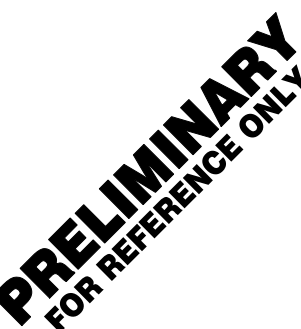
DP1 UPDATES WITH DP2 FINAL SUBMISSION

UNCLASSIFIED

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MOON TOWNSHIP, PA 15108 A/E INFO
APPROVED

FOR COMMANDER NAVFAC

ACTIVITY
MARINE CORPS BASE
CAMP LEJEUNE

SATISFACTORY TO DATE

DES JTE DRWETH CHK JMS

PM

BRANCH MANAGER

CHIEF ENGINEER

FIRE PROTECTION

NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND

NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND ATLANTIC

ATLANTIC DESIGN AND CONSTRUCTION

MOB CAMP LEJEUNE

NORFOLK, VA

JACKSONVILLE, NC

P1338 II MEF SIMULATION/TRAINING CENTER

REPLACEMENT

TELECOMMUNICATIONS - DETAILS

SCALE: AS NOTED

EPROJECT NO.: 1590892

CONSTR. CONTR. NO.

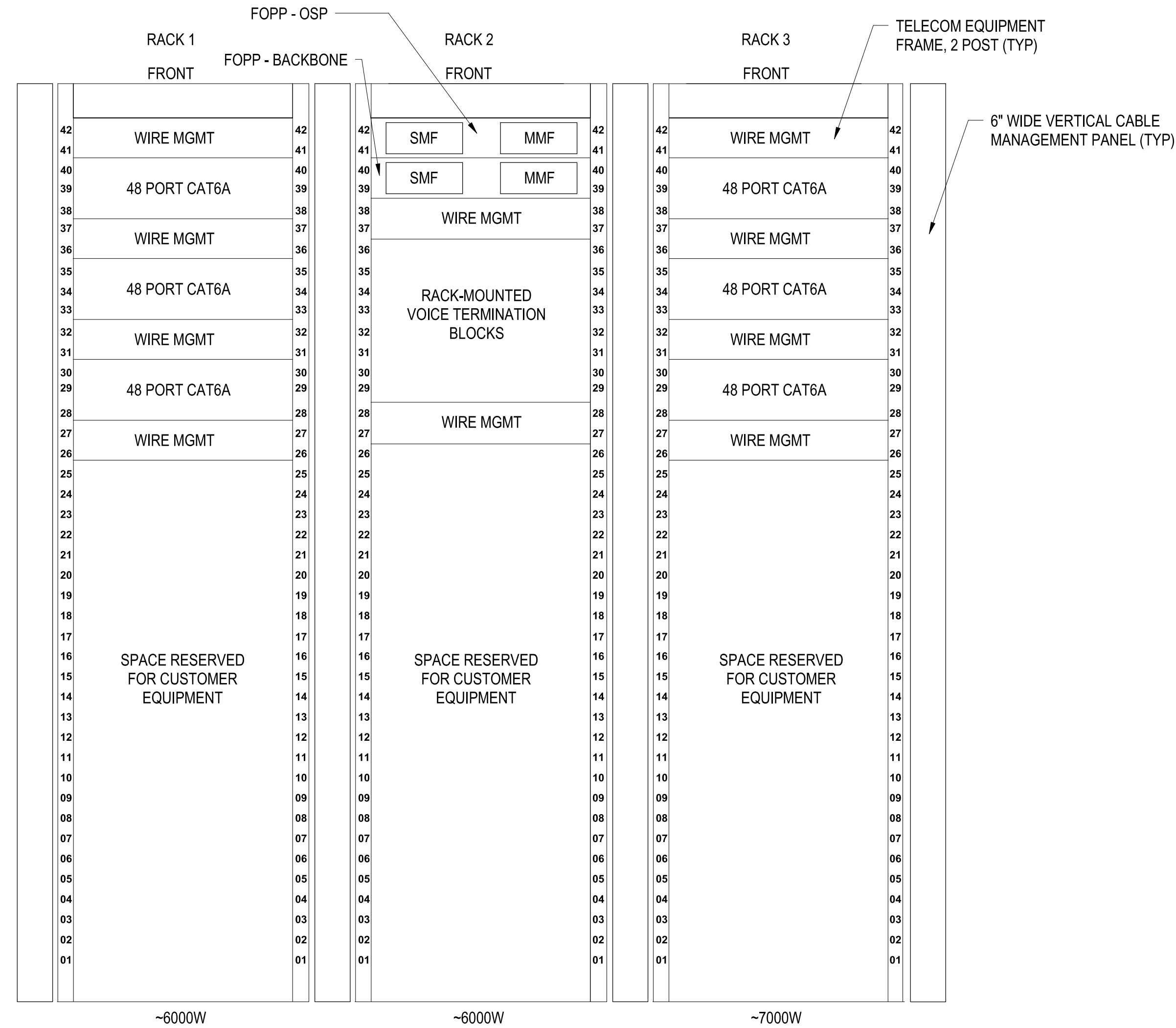
N40085-20-C-0059

NAVFAC DRAWING NO.

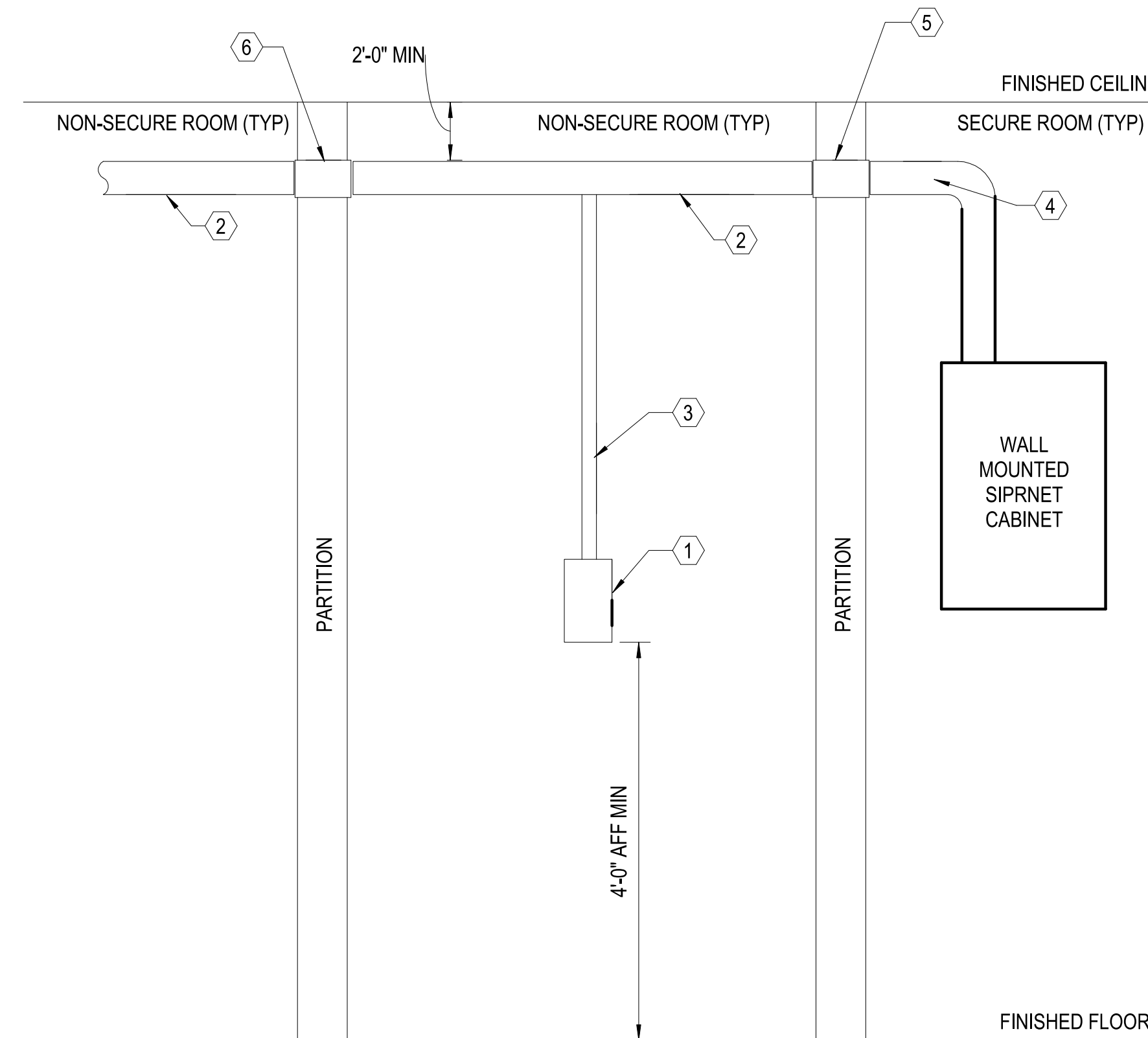
SHEET

OF

T-509



B3



- 1 SECURE USER DROP BOX, SINGLE-GANG, MOUNTED AT MINIMUM 48" AFF.
COORDINATE MOUNTING HEIGHT WITH FURNITURE
- 2 SECURE RACEWAY CARRIER, 2" x 2"; MOUNTED AT MINIMUM 2" BELOW
FINISHED CEILING
- 3 SECURE RACEWAY CARRIER, 1" x 1"; WITH DROPOUT FITTING TO 2X2
SECURE CARRIER, TO SECURE USER DROP BOX
- 4 2" EMT TO SIPRNET CABINET
- 5 THRU-WALL PENETRATION UTILIZING DIELECTRIC BREAK
- 6 THRU-WALL PENETRATION, STANDARD

SCALE:NTS

(B1)

SCALE:NTS

C

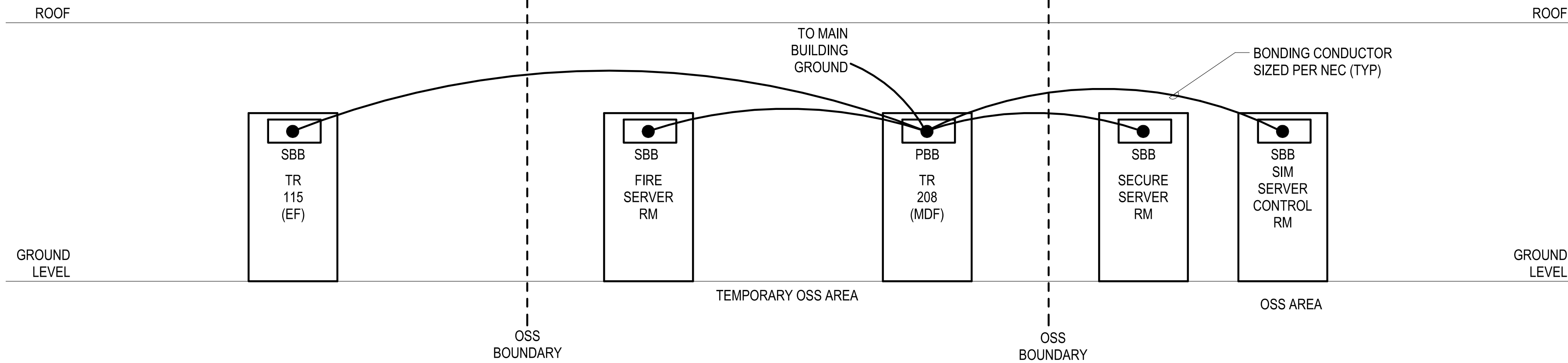
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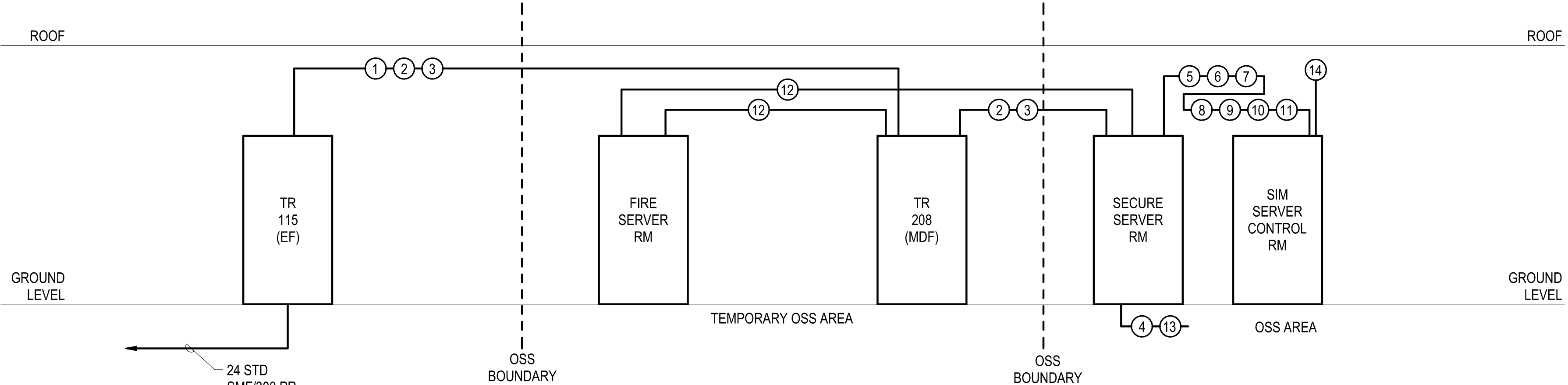
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TELECOM GROUNDING LOGICAL DIAGRAM

SCALE: NTS

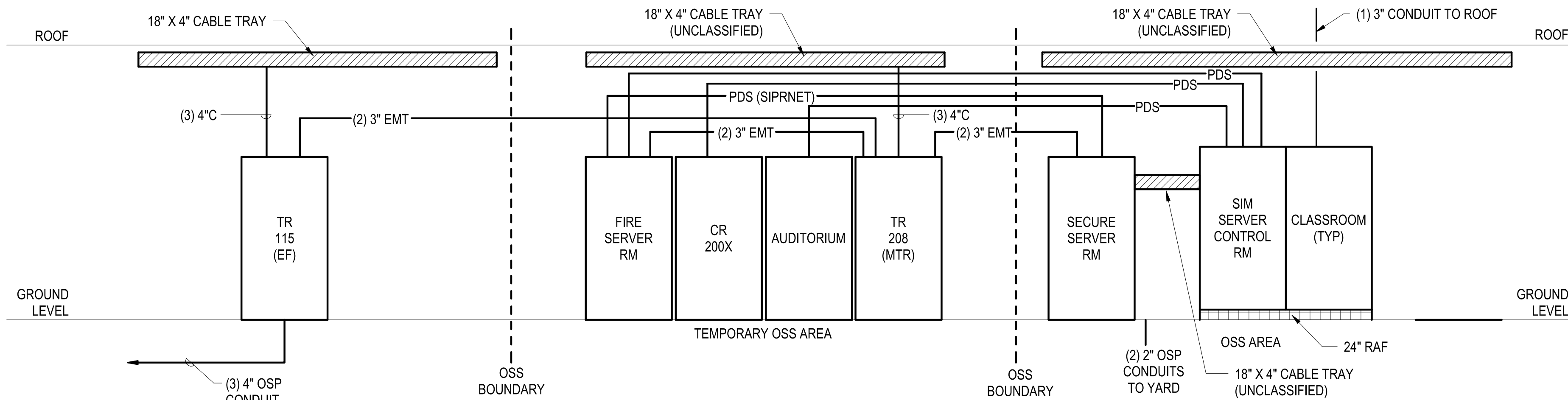
C1



TELECOM BACKBONE CABLING LOGICAL DIAGRAM

SCALE: NTS

B1



TELECOM PATHWAY LOGICAL DIAGRAM

SCALE: NTS

A1

BACKBONE CABLING LEGEND						
	FROM	TO	RISER CAT3	FIBER SM OS2/MM OM4	CAT6A	OTHER
1	TR115	TR208	100	24SM/24MM		
2	TR115	SERVER RM MCEN	200	24SM/24MM		
3	TR115	SIM SECURE COMM		24SM/24MM		
4	SERVER RM MCEN	YARD POP UP	100 (OSP)			
5	SERVER RM MCEN	SERVER RM SIPR		12SM/12MM		12
6	SIM SECURE COMM	SERVER RM MTWS (U)		12SM/12MM		12
7	SIM SECURE COMM	SERVER RM MTWS (C)		12SM/12MM		12
8	SIM SECURE COMM	SERVER RM CACCTUS (U)		12SM/12MM		12
9	SIM SECURE COMM	SERVER RM CACCTUS (C)		12SM/12MM		12
10	SIM SECURE COMM	SERVER RM TIE (U)		12SM/12MM		12
11	SIM SECURE COMM	SERVER RM TIE (C)		12SM/12MM		12
12	SIM SECURE COMM	FIRE SERVER RM		12SM/12MM		12
13	SIM SECURE COMM	YARD POP UP		12SM/12MM (OSP)		
14	CACCTUS (U)	ROOF ANTENNAE				LMR400



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100 AIRSIDE DRIVE
MOON TOWNSHIP, PA 15108
A/E INFG
APPROVED

FOR COMMANDER NAVFAC
ACTIVITY
MARINE CORPS BASE
CAMP LEJEUNE
SATISFACTORY TO DATE
DES / JTE / DRWETH / CHK / JMS
PM
BRANCH MANAGER
CHIEF ENGINEER
FIRE PROTECTION

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND
NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND ATLANTIC
ATLANTIC DESIGN AND CONSTRUCTION
MOB CAMP LEJEUNE
JACKSONVILLE, NC
P1338 II MEF SIMULATION/TRAINING CENTER
REPLACEMENT
TELECOMMUNICATIONS - DIAGRAMS

SCALE: AS NOTED
EPROJCT NO.: 1590892
CONSTR. CONTR. NO.
N40085-20-C-0059
NAVFAC DRAWING NO.
SHEET OF

T-601

DP1 UPDATES WITH DP2 FINAL SUBMISSION

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FILE NAME: BIM 360/HF PACKAGE 3/PT1338 - MEF SIM CTR-1590892-E-1.rvt
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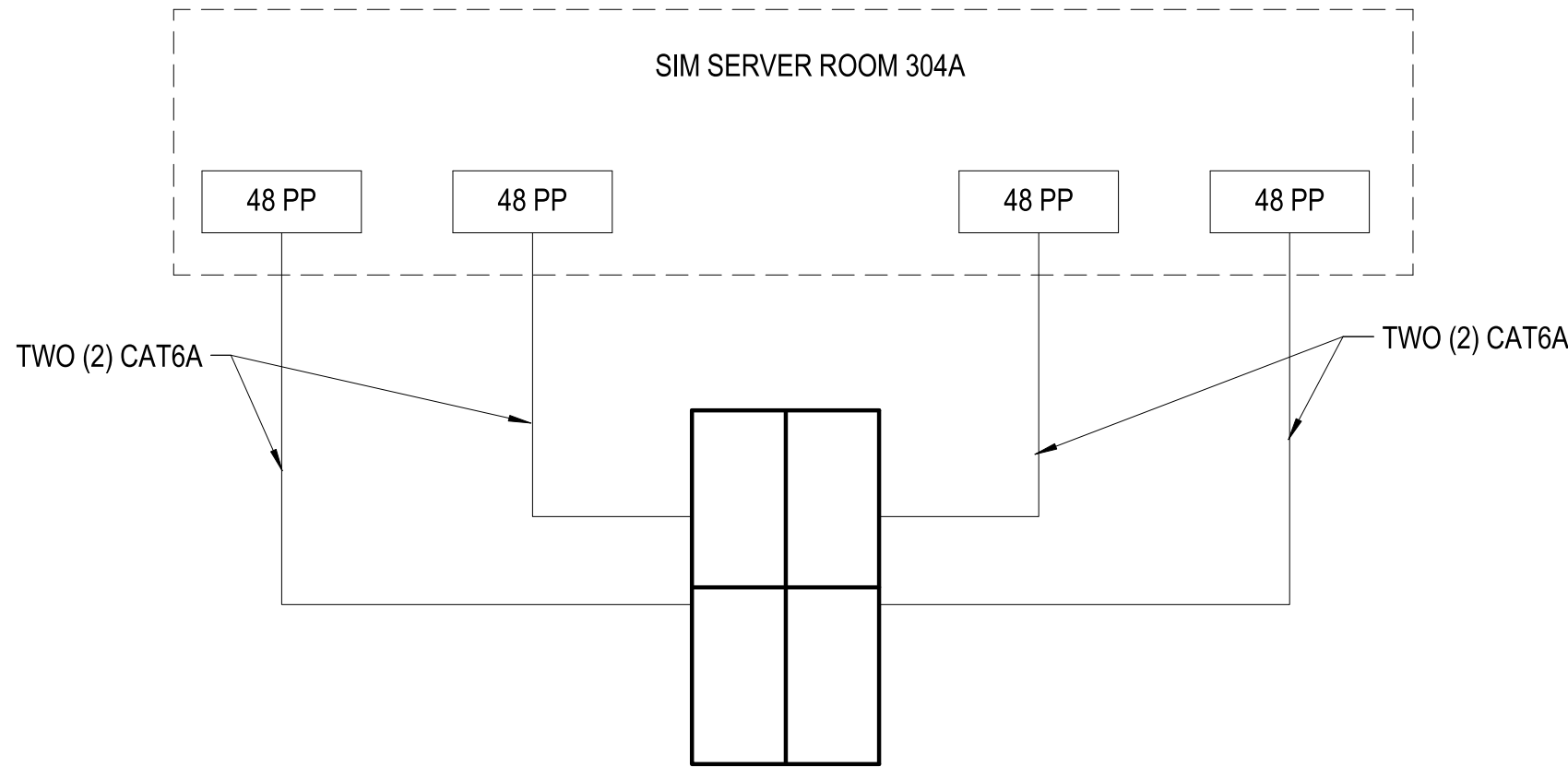
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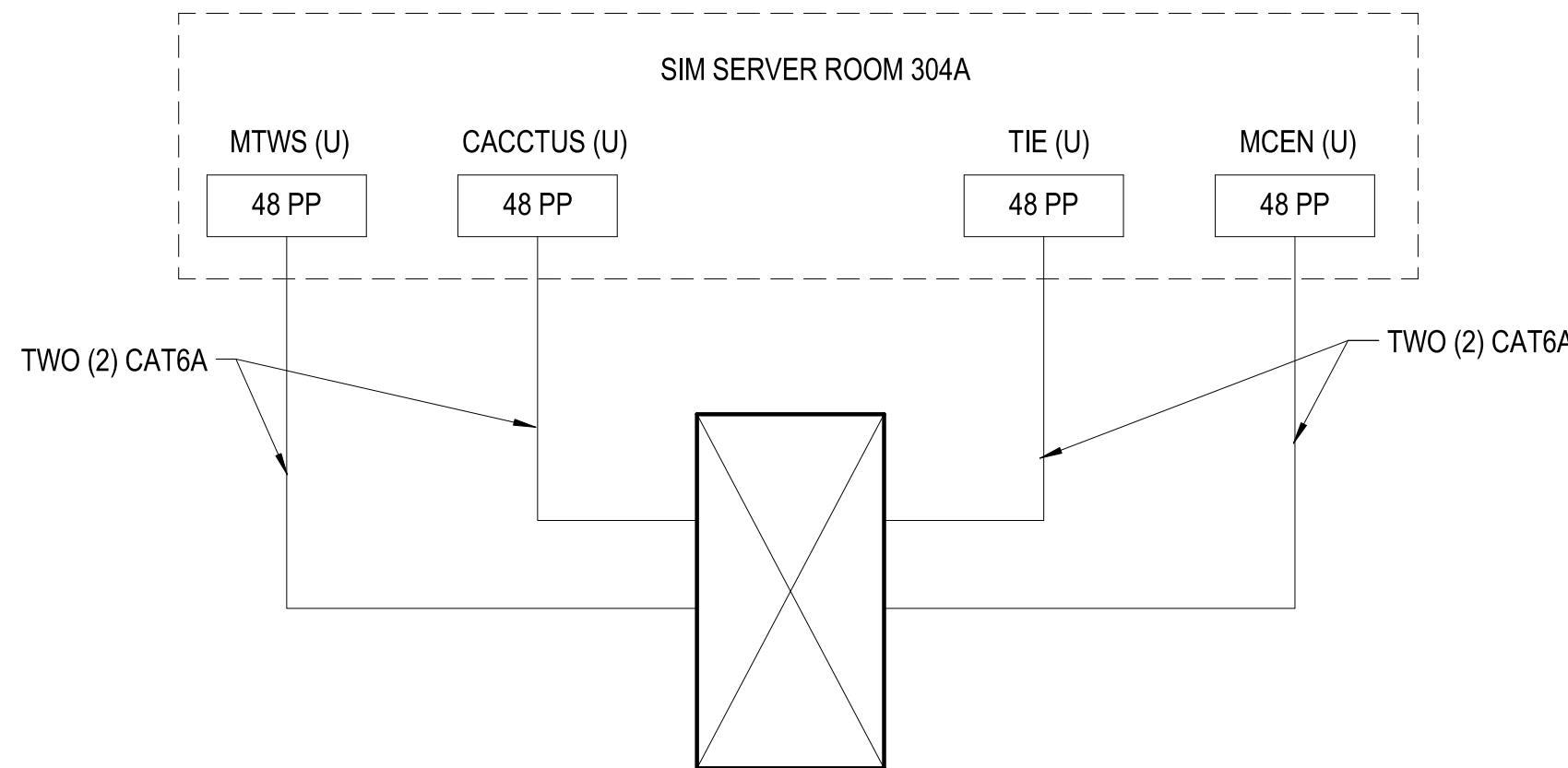
5



TRAINING SIMULATION ROOM FLOORBOX (C), TYPICAL

SCALE: NTS

C1



TRAINING SIMULATION ROOM FLOORBOX (U), TYPICAL

SCALE: NTS

A1

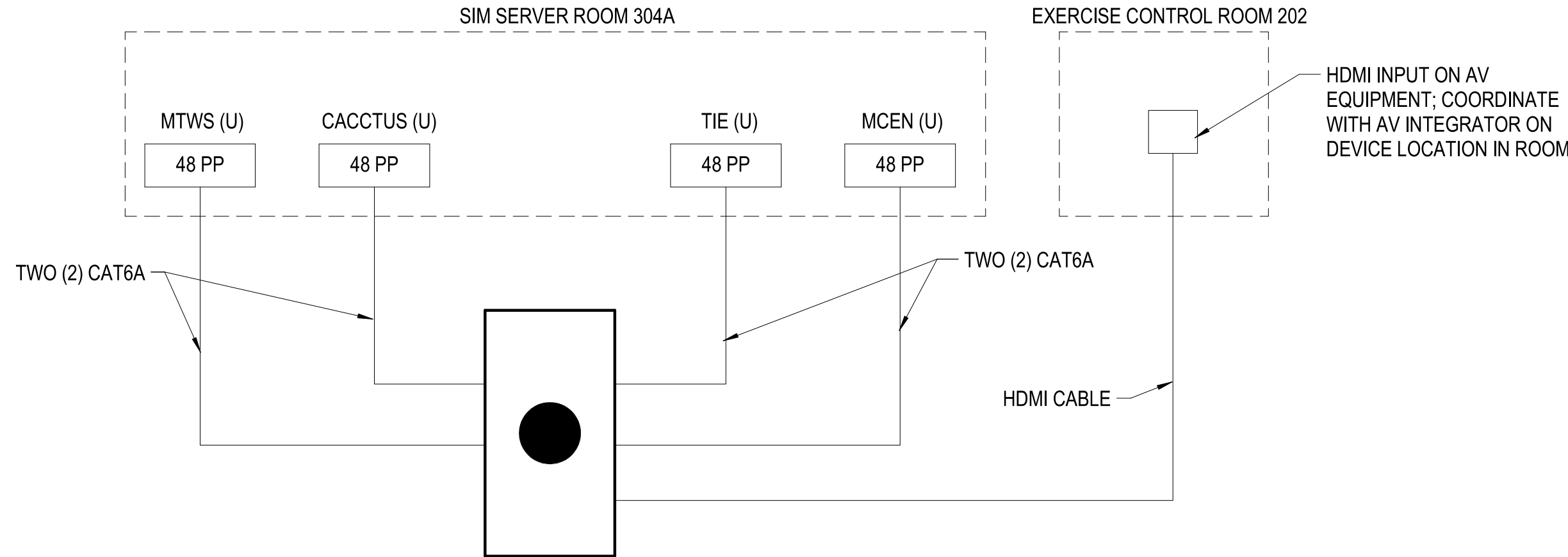
UNCLASSIFIED

UNCLASSIFIED

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EXERCISE CONTROL ROOM 202 FLOORBOX (U), TYPICAL

SCALE: NTS

C3



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MARINE CORPS BASE
CAMP LEJEUNE

SATISFACTORY TO DATE

DES. JTE. DRW. CHK. JMS.

PM

BRANCH MANAGER

CHIEF ENGINEER

FIRE PROTECTION

REPLACEMENT

TELECOMMUNICATIONS - DIAGRAMS

P1338 II MEF SIMULATION/TRAINING CENTER

JACKSONVILLE, NC

NORFOLK, VA

ATLANTIC DESIGN AND CONSTRUCTION

MOB CAMP LEJEUNE

NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND

NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND ATLANTIC

DEPARTMENT OF THE NAVY

SCALE: AS NOTED

EPROJECT NO.: 1590892

CONSTR. CONTR. NO.

N40085-20-C-0059

NAVFAC DRAWING NO.

SHEET OF

T-602

DP1 UPDATES WITH DP2 FINAL SUBMISSION

UNCLASSIFIED

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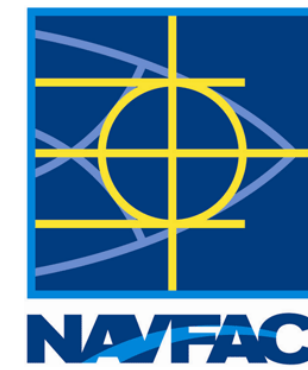
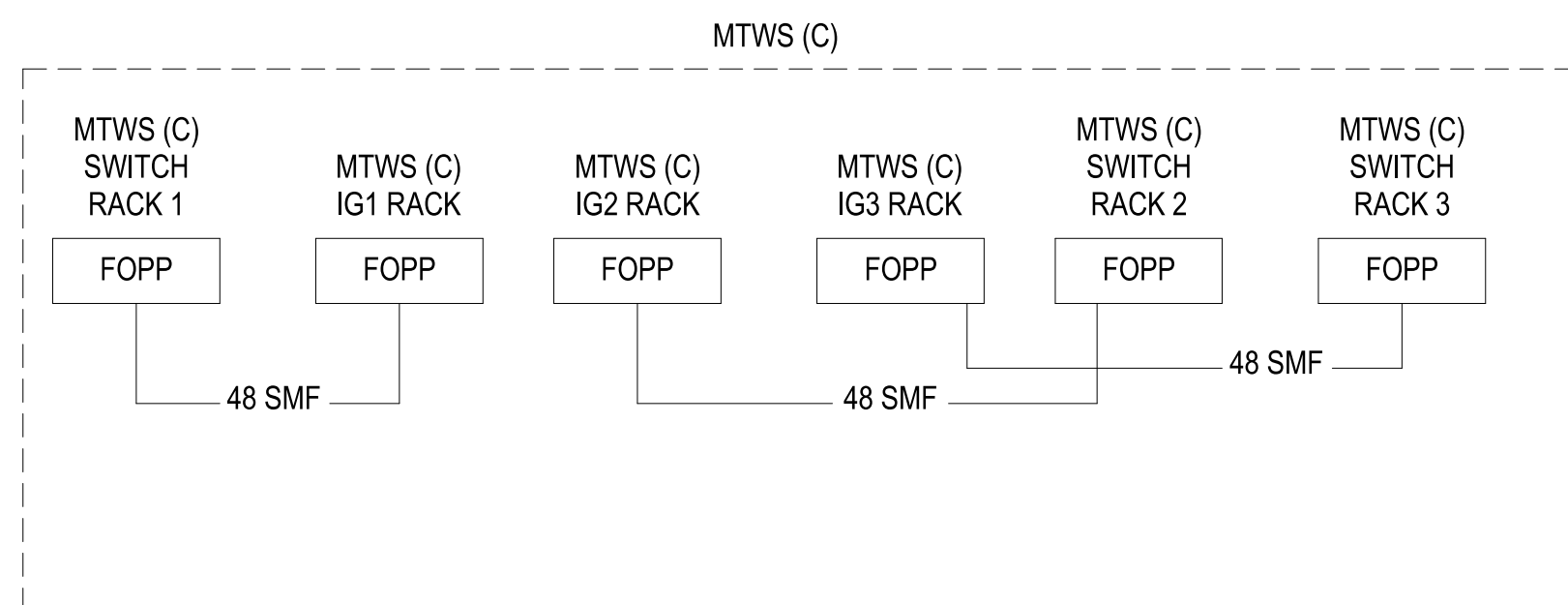
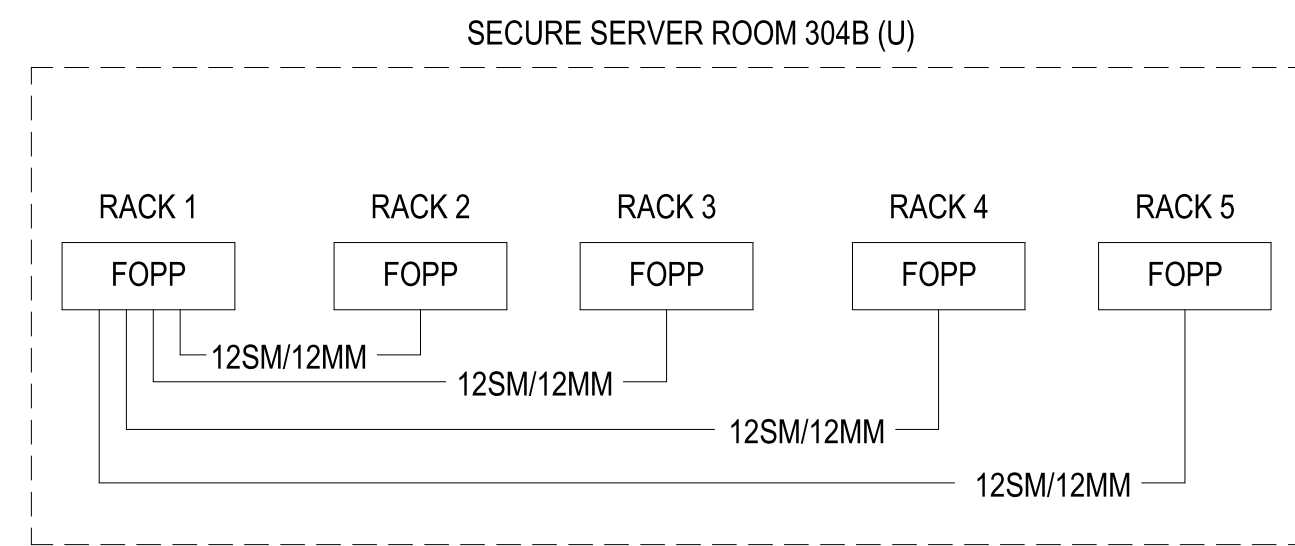
UNCLASSIFIED

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UNCLASSIFIED



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Michael Baker
INTERNATIONAL

100 AIRSIDE DRIVE
MOON TOWNSHIP, PA 15108 A/E INF

APPROVED

FOR COMMANDER NAVFAC

ACTIVITY

MARINE CORPS BASE
CAMP LEJEUNE

SATISFACTORY TO DATE

DES JTE	DRWETH	CHK JMG
---------	--------	---------

BRANCH MANAGER

CHIEF ENG/ARCH

FIRE PROTECTION		
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DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND
ATLANTIC DESIGN AND CONSTRUCTION

JACKSONVILLE, NC
P138 II MEF SIMULATION/TRAINING CENTER
REPLACEMENT

TELECOMMUNICATIONS • DIAGRAMS

SCALE: AS NOTED

EPROJECT NO.: 1590892

N40085-20-C-0059

NAVFAC DRAWING NO.

SHEET OF

T-603

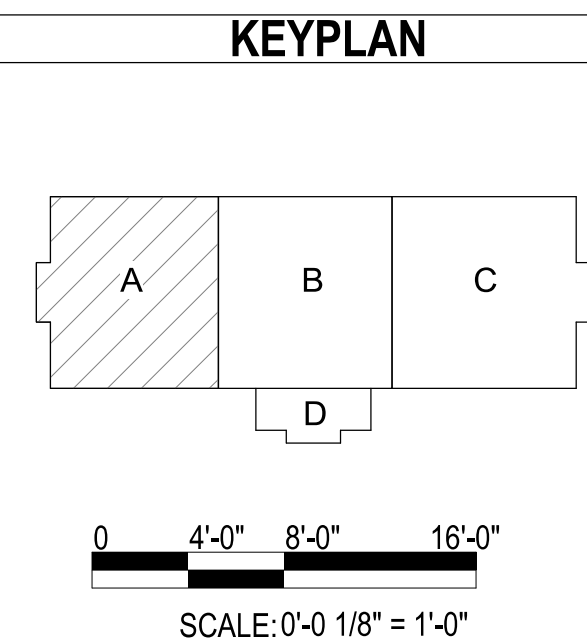
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FILE NAME: BIM 360://HF PACKAGE 3/P1338 MEF SIM CTR-1590892-E.rvt

A1 SECURITY - FIRST FLOOR PLAN - AREA A
SCALE: 1/8" = 1'-0"



GENERAL NOTES
1 SEE SHEET T-001 FOR TELECOMMUNICATIONS NOTES, SYMBOLS, AND ABBREVIATIONS.



APPROVED		DATE	APPR
SYMBOL		DESCRIPTION	
PRELIMINARY FOR REFERENCE ONLY			
Michael Baker INTERNATIONAL 100 AIRSIDE DRIVE MOON TOWNSHIP, PA 15108 APPROVED			
FOR COMMANDER NAVFAC			
ACTIVITY MARINE CORPS BASE CAMP LEJEUNE			
SATISFACTORY TO DATE			
DES. JTE	DRW. WITH	CHK. AND	
PM			
BRANCH MANAGER			
CHIEF ENGINEER			
FIRE PROTECTION			
NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND ATLANTIC DESIGN AND CONSTRUCTION NAVFAC DRAWING NO.			
DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND ATLANTIC ATLANTIC DESIGN AND CONSTRUCTION MOB CAMP LEJEUNE JACKSONVILLE, NC P1338 II MEF SIMULATION/TRAINING CENTER REPLACEMENT SECURITY - FIRST FLOOR PLAN - AREA A			
SCALE: AS NOTED EPROJECT NO.: 1590892 CONSTR. CONTR. NO. N40085-20-C-0059 SHEET OF TY111			

DP1 UPDATES WITH DP2 FINAL SUBMISSION

FILE NAME: BIM 360/HF PACKAGE 3/P1338 MEF SIM CTR-1590892-E-V4
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TY111

TY114

TY113

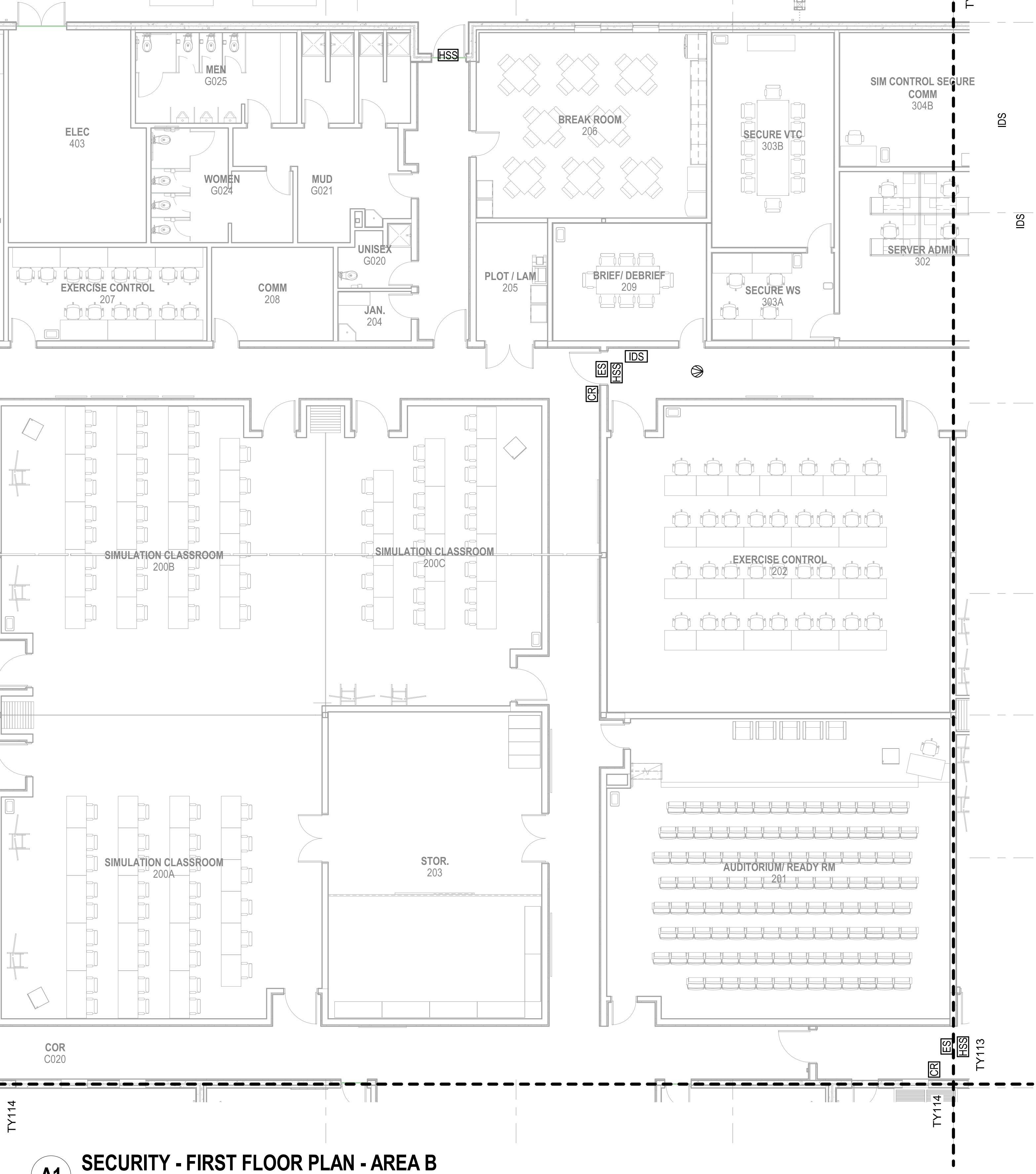
TY114

TY113

A1

SECURITY - FIRST FLOOR PLAN - AREA B

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



GENERAL NOTES

1 SEE SHEET T-001 FOR TELECOMMUNICATIONS NOTES, SYMBOLS, AND ABBREVIATIONS.



PRELIMINARY
FOR REFERENCE ONLY



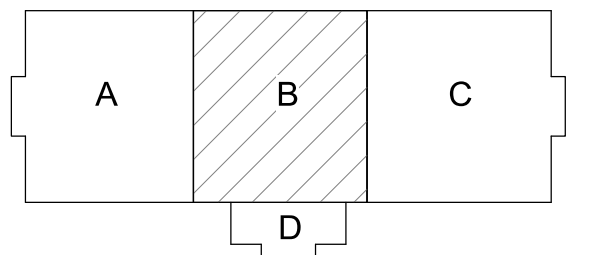
Michael Baker INTERNATIONAL
100 AIRSIDE DRIVE
MOON TOWNSHIP, PA 15108
APPROVED

FOR COMMANDER NAVFAC
ACTIVITY
MARINE CORPS BASE
CAMP LEJEUNE
SATISFACTORY TO DATE
DES JTE DRWETH CHK JMS
PM
BRANCH MANAGER
CHIEF ENGINEER
FIRE PROTECTION

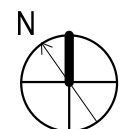
DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND ATLANTIC
ATLANTIC DESIGN AND CONSTRUCTION
NAVFAC DRAWING NO.
PROJECT NO.: 1590892
CONSTR. CONTR. NO.
N40085-20-C-0059
SHEET OF
TY112

SECURITY - FIRST FLOOR PLAN - AREA B
P1338 II MEF SIMULATION/TRAINING CENTER
REPLACEMENT
JACKSONVILLE, NC
ATLANTIC DESIGN AND CONSTRUCTION

KEYPLAN



0 4'-0" 8'-0" 16'-0"
SCALE: 0'-0 1/8" = 1'-0"



UNCLASSIFIED

DP1 UPDATES WITH DP2 FINAL SUBMISSION

UNCLASSIFIED

D

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FILE NAME: BIM 360/HF PACKAGE 3/P1133 - MEF SIM CTR-1590892-E-V4
PLOTTED: 9/1/2021 3:34:00 PM

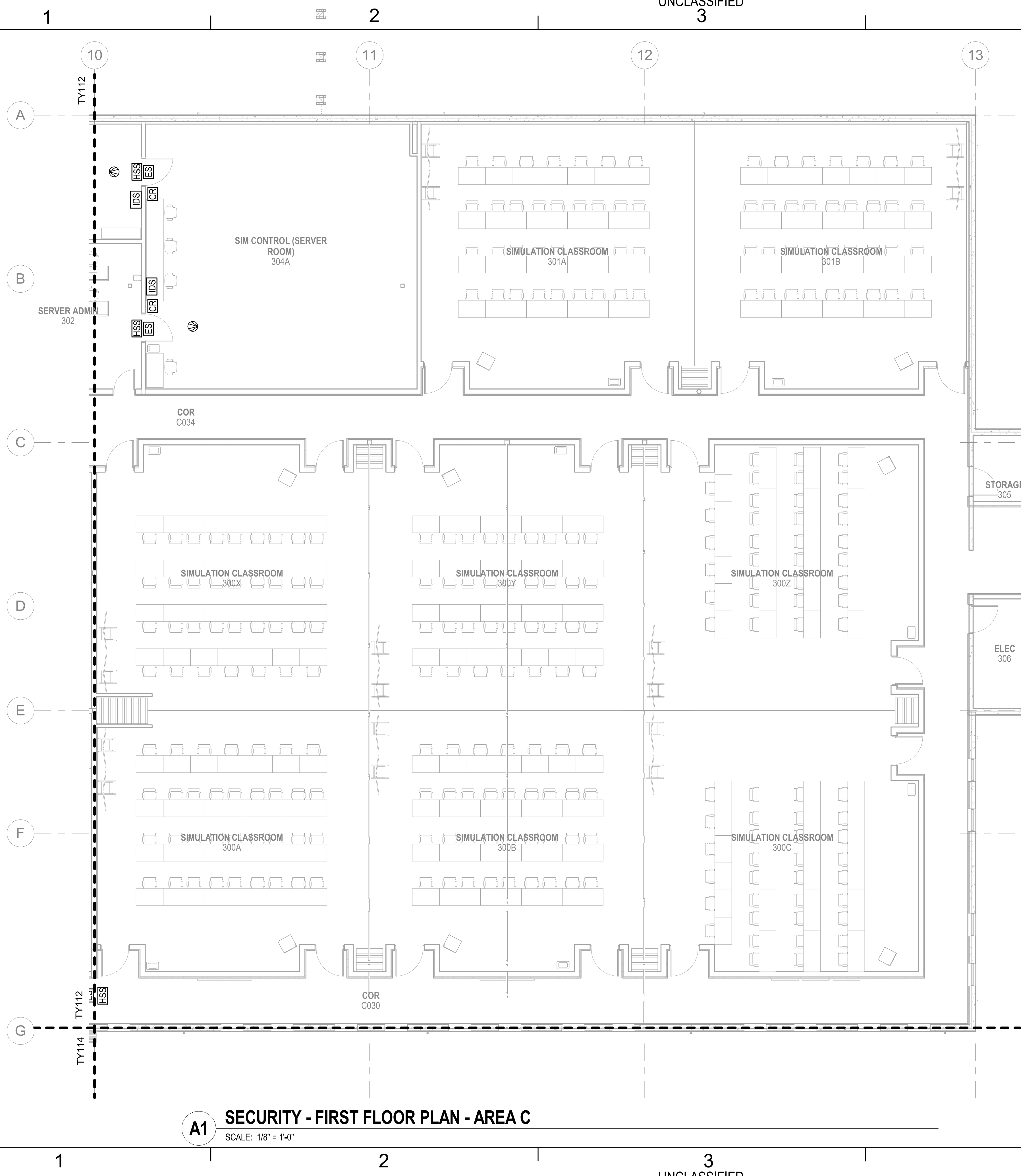
UNCLASSIFIED

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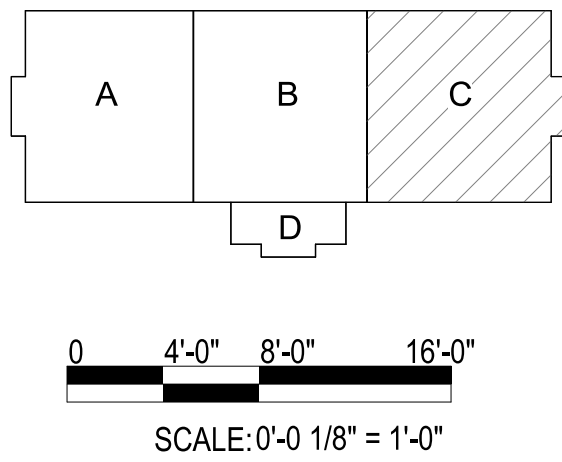
A



A1 SECURITY - FIRST FLOOR PLAN - AREA C
SCALE: 1/8" = 1'-0"

GENERAL NOTES
1 SEE SHEET T-001 FOR TELECOMMUNICATIONS NOTES, SYMBOLS, AND ABBREVIATIONS.

KEYPLAN



APPR			
DATE			
SYN			
DESCRIPTION			
SEAL			
PRELIMINARY FOR REFERENCE ONLY			
Michael Baker INTERNATIONAL 100 AIRSIDE DRIVE MOON TOWNSHIP, PA 15108 APPROVED			
FOR COMMANDER NAVFAC			
ACTIVITY MARINE CORPS BASE CAMP LEJEUNE			
SATISFACTORY TO DATE			
DES JTE	DRWETH	CHK JMS	
PM			
BRANCH MANAGER			
CHIEF ENGINEER			
FIRE PROTECTION			
NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND ATLANTIC DESIGN AND CONSTRUCTION NAVFAC CAMP LEJEUNE JACKSONVILLE, NC P1338 II MEF SIMULATION/TRAINING CENTER REPLACEMENT SECURITY - FIRST FLOOR PLAN - AREA C			
SCALE: AS NOTED			
EPROJECT NO.: 1590892			
CONSTR. CONTR. NO. N40085-20-C-0059			
NAVFAC DRAWING NO.			
SHEET OF			
TY113			

DP1 UPDATES WITH DP2 FINAL SUBMISSION

UNCLASSIFIED

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FILE NAME: BIM 360/HF PACKAGE 3/P1338 MEF SIM CTR-1590892-E-14
PLOTTED: 9/1/2021 3:34:03 PM

DP1 UPDATES WITH DP2 FINAL SUBMISSION

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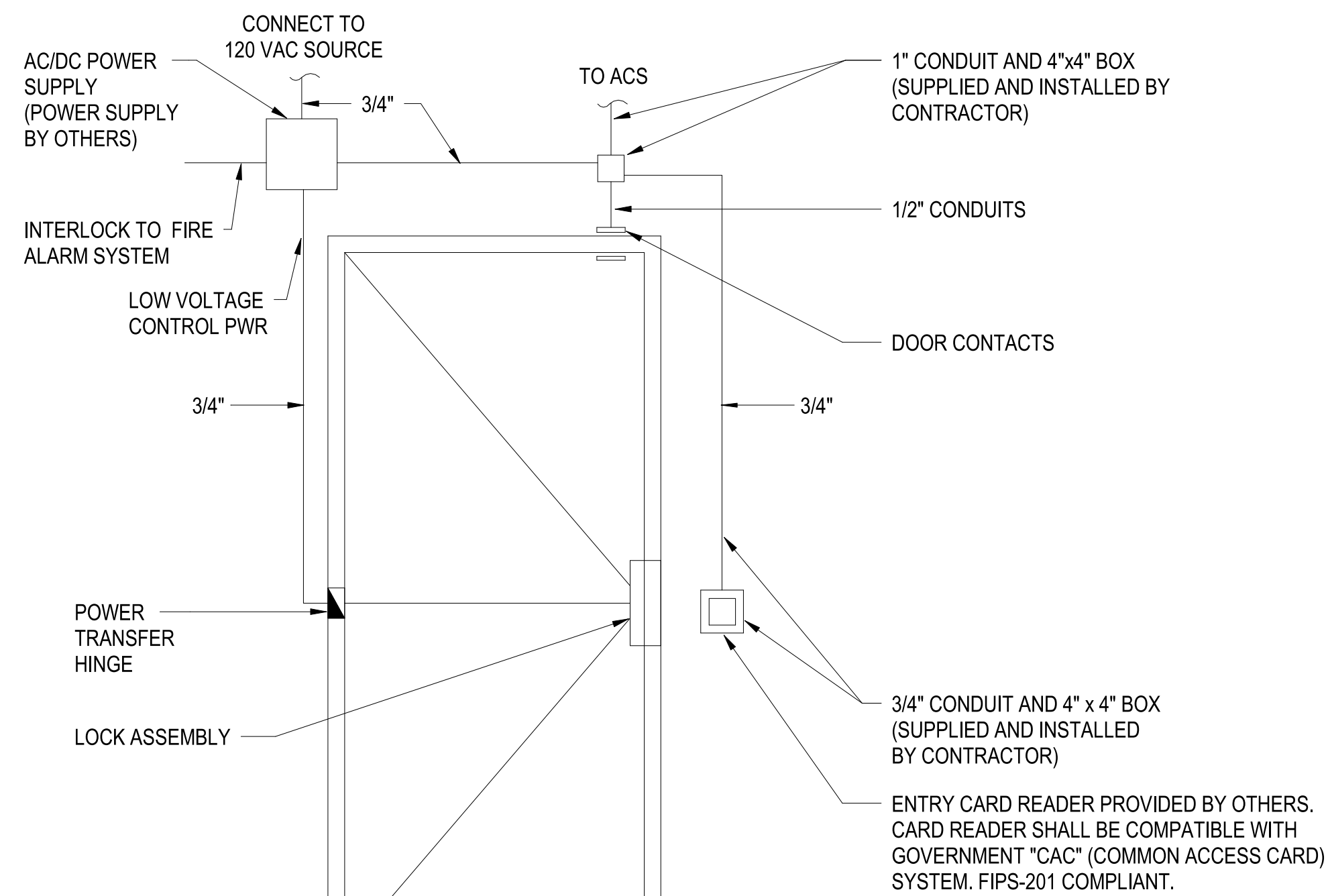
PN

PO

PP

PQ

PR



SINGLE DOOR ACCESS CONTROLS SYSTEM

SCALE:NTS

C3

FILE NAME: BIM 360://HF PACKAGE 3/P1338 MEF SIM CTR-1590892-E.rvt

SCALE:	AS NOTED
EPROJECT NO.: 1590892	
CONSTR. CONTR. NO. N40085-20-C-0059	
NAVFAC DRAWING NO.	
SHEET	OF
TY501	