

BUILDING 5 - EHRM INFRASTRUCTURE UPGRADES

St. Cloud VA Health Care System Main Campus, St. Cloud, Minnesota



PROPOSED ADDITION

OWNER AND CONSULTANTS:

VA COR:
CONTACT: MIKE ENGMARK
ADDRESS: ST CLOUD VA MEDICAL CENTER
4801 VETERANS DRIVE
ST. CLOUD, MN 56303
PHONE: 320-252-1670
PROGRAM MANAGER:
CONTACT: JONATHAN WEST
ADDRESS: ST CLOUD VA MEDICAL CENTER
4801 VETERANS DRIVE
ST. CLOUD, MN 56303
PHONE: 504-250-2699
EMAIL: Jonathan.West@vcaint.com

CIVIL ENGINEER:
NAME: ANDERSON ENGINEERING OF MN, LLC
ADDRESS: 13605 1ST AVE NORTH, SUITE 100
PLYMOUTH, MN 55441

CONTACT: IAN WEBER
PHONE: 763-412-4000

ARCHITECT:
NAME: ANDERSON ENGINEERING OF MN, LLC
ADDRESS: 13605 1ST AVE NORTH, SUITE 100
PLYMOUTH, MN 55441

CONTACT: EDWARD MARKFORT
PHONE: 763-412-4000

STRUCTURAL ENGINEER:
NAME: ADVANCED STRUCTURAL TECHNOLOGIES
ADDRESS: 7301 OHMS LANE, SUITE 215
EDINA, MN 55439

CONTACT: ZACHARY CRAIG
PHONE: 952-854-9302

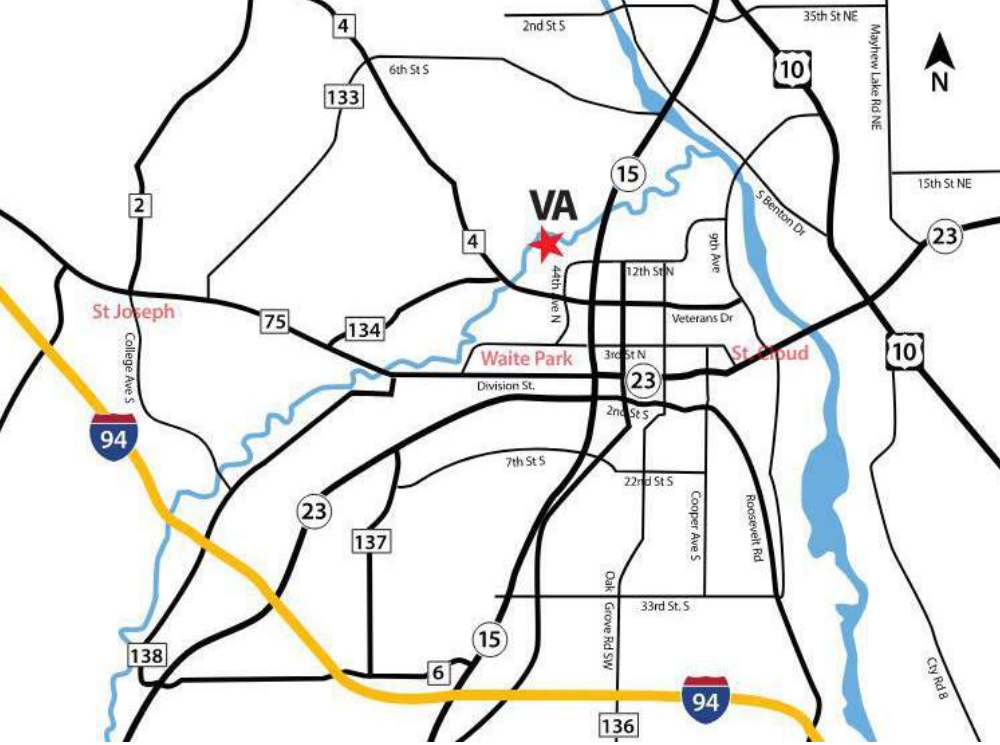
TELECOMMUNICATIONS ENGINEER:
NAME: SPECIALIZED ENGINEERING SOLUTIONS
ADDRESS: 10360 ELLISON CIRCLE
OMAHA, NE 68134

CONTACT: KRIS BURNHAM
PHONE: 402-991-5520

MECHANICAL/PLUMBING ENGINEER:
NAME: SPECIALIZED ENGINEERING SOLUTIONS
ADDRESS: 10360 ELLISON CIRCLE
OMAHA, NE 68134

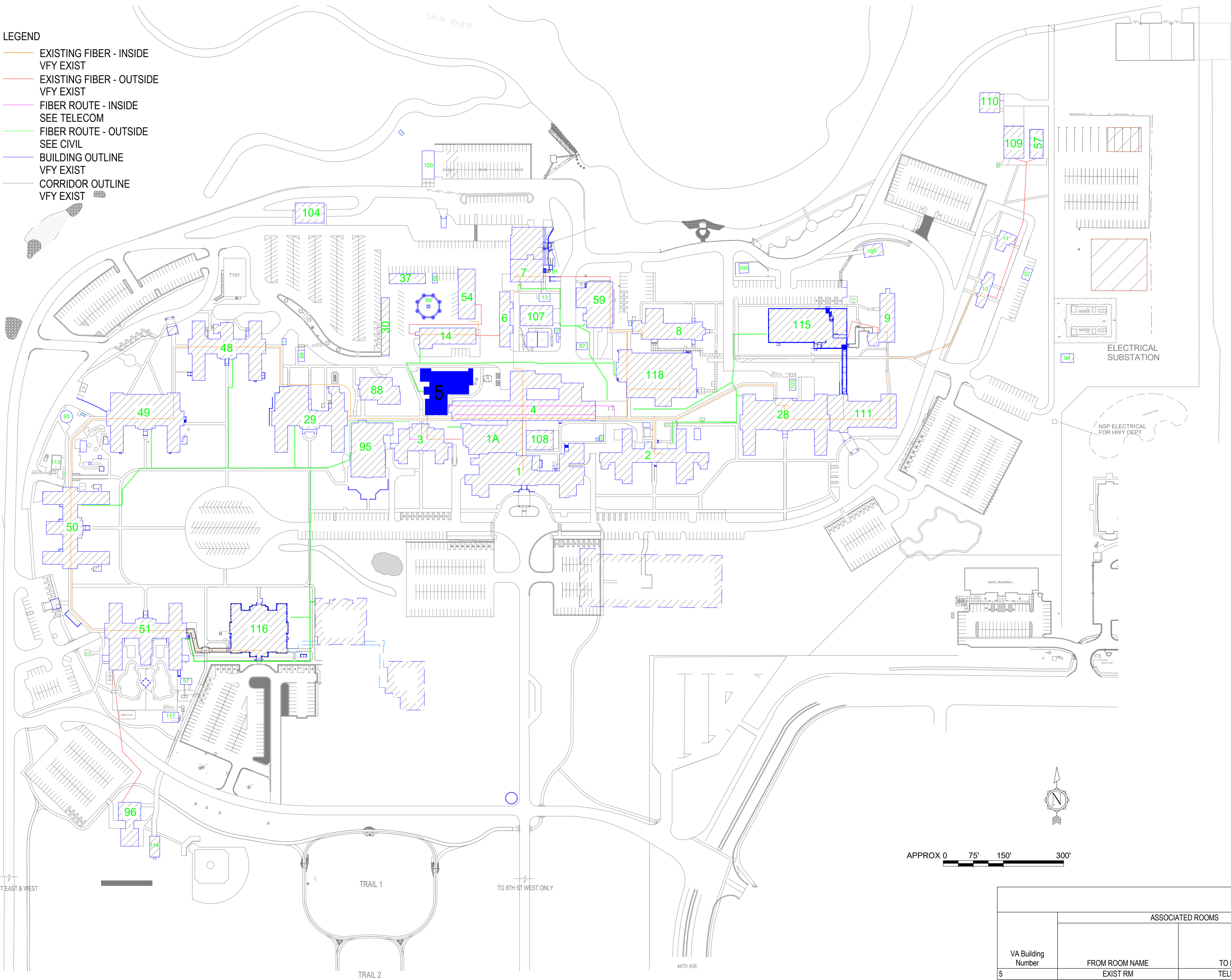
CONTACT: KRIS BURNHAM
PHONE: 402-991-5520

VICINITY MAP:



LEGEND

- EXISTING FIBER - INSIDE
- VFY EXIST
- EXISTING FIBER - OUTSIDE
- VFY EXIST
- FIBER ROUTE - INSIDE
- SEE TELECOM
- FIBER ROUTE - OUTSIDE
- SEE CIVIL
- BUILDING OUTLINE
- VFY EXIST
- CORRIDOR OUTLINE
- VFY EXIST



SHEET INDEX - BUILDING 5

| SHEET NO. | SHEET TITLE |
|---|--|
| 5-G000 | BUILDING 5 COVER SHEET & SHEET INDEX |
| 5-G110 | FIRST FLOOR LIFE SAFETY PLAN |
| 5-G111 | FIRST FLOOR - INFECTION CONTROL & PHASING PLAN |
| 5-A5110 | FIRST FLOOR PLANS |
| 5-A5500 | SECTIONS, DETAILS |
| 5-A5600 | ELEVATIONS, DETAILS |
| 5-S110 | FIRST FLOOR PLANS |
| 5-TD110 | FIRST FLOOR PLAN - TELECOM - DEMOLITION |
| 5-TN110 | FIRST FLOOR PLAN - TELECOMMUNICATIONS |
| 5-TN210 | FIRST FLOOR PLAN - TELECOM - CABLE DISTANCE |
| 5-TN400 | ENLARGED PLANS - TELECOMMUNICATIONS |
| 5-TN300 | ENLARGED PLANS - TELECOMMUNICATIONS - DEMO |
| 05-E200 | FIRST FLOOR PLAN - ELECTRICAL |
| 05-E300 | ELECTRICAL ENLARGED PLANS |
| 05-E400 | ELECTRICAL ONE-LINE DIAGRAMS |
| 05-E500 | ELECTRICAL SCHEDULES |
| 05-M101 | FIRST FLOOR DEMOLITION - MECHANICAL |
| 05-M201 | FIRST FLOOR REMODEL - MECHANICAL |
| SEE GENERAL SHEETS FOR ADDITIONAL INFORMATION | |

ROOM SCHEDULE

| NO. | NAME | CABLING | PATCH PANEL | FIBER | POWER | BONDING | UPS | DEDICATED COOLING | TEMPERATURE | HUMIDITY | RACK SENSOR | SPACE | AREA | WIDTH (FT) | LENGTH (FT) | HT TO CLG. STRUCT | REMARKS |
|-------------|--------------|---------|-------------|-------|-------|---------|-----|-------------------|-------------|----------|-------------|-------|--------|------------|-------------|-------------------|---|
| FIRST FLOOR | | | | | | | | | | | | | | | | | |
| 114 | EXIST RM | | | | | | | | | | | | 51 SF | 5.4 | 9.6 | 8.00 | DECOMMISSION EXIST IT/DATA ROOM. SEE TELECOM DRAWINGS. CONVERT TO CORRIDOR FOR TR BUILDING ADDITION |
| 116 | TELECOM ROOM | X | X | X | X | X | X | X | X | X | X | X | 120 SF | 12.0 | 10.0 | 10.00 | CONSTRUCT ADDITION. CONSTRUCT TO EHRM TELECOM ROOM STANDARDS. SEE STRUCTURAL AND TELECOM DRAWING |

HAZARDOUS MATERIAL SCHEDULE

| LEVEL | ROOM NO. | ROOM NAME | QUESTIONABLE HAZARDOUS ELEMENT | POSSIBLE ABATEMENT ACTION |
|---|----------|--------------|--------------------------------|---------------------------|
| FIRST FLOOR | 114 | EXIST RM | NONE | NONE |
| FIRST FLOOR | 116 | TELECOM ROOM | NONE | NONE, BUILDING ADDITION |
| HAZARDOUS MATERIALS MAY BE ENCOUNTERED THROUGHOUT THE DISTRIBUTION ROUTING THROUGH CEILING PLENUMS AND UTILITY TUNNELS. INSTALLATION OF DISTRIBUTION SHALL NOT DISTURB QUESTIONABLE HAZARDOUS MATERIAL. | | | | |

ICRA PHASE CONSTRUCTION ROOM SCHEDULE

| LEVEL | ROOM NO. | ROOM NAME | CAI BLDG NAME / FUNCTION | CONSTRUCTION PROJECT ACTIVITY | INFECTION CONTROL RISK GROUP | CONTROL PROCEDURE CLASS | SECTION | CONSTRUCTION ZONE / OCCUPIED CONSTR | DAY / NIGHT |
|---|----------|--------------|--------------------------|-------------------------------|------------------------------|-------------------------|---------|-------------------------------------|-------------|
| FIRST FLOOR | 114 | EXIST RM | PHARMACY | TYPE B | GROUP 1 | CLASS II | CENTER | ZONES | DAY |
| FIRST FLOOR | 116 | TELECOM ROOM | PHARMACY | TYPE D | GROUP 1 | CLASS III/IV | CENTER | ZONES | DAY |
| SEE GENERAL NOTES SHEET FOR CONSTRUCTION INFECTION CONTROL RISK ASSESSMENT (ICRA) DESCRIPTIONS, TYPE, GROUP AND CLASS SELECTED TO BEST OF DESIGN TEAMS KNOWLEDGE. FINAL DETERMINATION BY THE VA WILL BE MADE AT A LATER DATE. | | | | | | | | | |

LEAK PREVENTION / DIVERTER SCHEDULE

| LEVEL | ROOM NO. | ROOM NAME | OVERHEAD LEAK DIVERTER AND DRAIN PIPING | LEAK PREVENTION BARRIER WATERPROOFING |
|---|----------|--------------|---|---------------------------------------|
| FIRST FLOOR | 114 | EXIST RM | | |
| FIRST FLOOR | 116 | TELECOM ROOM | | |
| SEE GENERAL NOTES SHEET FOR DETAIL, MWP = MEMBRANE WATERPROOFING, MASONRY = FLUID-APPLIED WATERPROOFING, INT = INTERIOR, EXT = EXTERIOR | | | | |

OPENING SCHEDULE

| ASSOCIATED ROOMS | | OPENING | | | PANEL INFORMATION | | | FRAME INFORMATION | | | HOW GROUP | FIRE LABEL (MIN) | GASKET | ELECTRICAL | SI LABEL | COMMENTS |
|------------------|--------------|---------|-------|--------|-------------------|----------------|---------------|-------------------|---------------|---------|-----------|------------------|--------|------------|----------|----------|
| FROM ROOM NAME | TO ROOM NAME | NUMBER | WIDTH | HEIGHT | PANEL TYPE | 2ND PANEL TYPE | PANEL GLAZING | FRAME TYPE | FRAME GLAZING | | | | | | | |
| EXIST RM | TELECOM ROOM | 116 | 3'-0" | 7'-0" | HMF | | NONE | HMM-1 | NONE | HW-3.2B | 45 | Y | Y | Y | | |

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CONSULTANT

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10360 Ellison Circle
Omaha, NE 68134
Phone: 402.991.5520
www.specializedeng.com

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13605 1st Ave. N. #100 Plymouth, MN 55441
P 763.412.4000 | F 763.412.4090 | ae-mn.com
Anderson Engineering of Minnesota, LLC | Proj # 16305

STAMP

I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly Licensed Architect under the laws of the State of Minnesota.
Name: *Tom Olesek*
Typed or Printed Name: Tom Olesek
Date: 03/30/2022 License Number: MN# 18157

| | | | | |
|-----------------------------|---|---|--|---|
| APPROVED: _____ DATE: _____ | APPROVED: PROJECT COR _____ DATE: _____ | APPROVED: PATIENT SAFETY _____ DATE: _____ | APPROVED: DMS MANAGER _____ DATE: _____ | APPROVED: DIRECTOR FMS _____ DATE: _____ |
| APPROVED: _____ DATE: _____ | APPROVED: SERVICE LINE DIRECTOR _____ DATE: _____ | APPROVED: SAFETY MANAGER _____ DATE: _____ | APPROVED: MO MANAGER _____ DATE: _____ | APPROVED: ASSOCIATE DIRECTOR _____ DATE: _____ |
| APPROVED: _____ DATE: _____ | APPROVED: DEMO COORDINATOR _____ DATE: _____ | APPROVED: CHIEF OF POLICE _____ DATE: _____ | APPROVED: PROJECTS SECTION MANAGER _____ DATE: _____ | APPROVED: NURSE EXECUTIVE _____ DATE: _____ |
| APPROVED: _____ DATE: _____ | APPROVED: INFECTION CONTROL NURSE _____ DATE: _____ | APPROVED: OT MANAGER _____ DATE: _____ | APPROVED: ASSISTANT CHIEF ENGINEER _____ DATE: _____ | APPROVED: CHIEF OF STAFF _____ DATE: _____ |
| APPROVED: _____ DATE: _____ | APPROVED: _____ DATE: _____ | APPROVED: _____ DATE: _____ | APPROVED: _____ DATE: _____ | APPROVED: MEDICAL CENTER DIRECTOR _____ DATE: _____ |

BUILDING 5 COVER SHEET & SHEET INDEX

| | |
|---|------------------------|
| PROJECT FILE: EHRM INFRASTRUCTURE UPGRADES | DATE: 03/30/2022 |
| PLOT SCALE: _____ | PROJECT NO: 656-21-235 |
| BUILDING NO: 5 | CHECKED BY: EM |
| LOCATION: VA MEDICAL CENTER ST. CLOUD, MN 56303 | DRAWN BY: EM |
| FULLY SPRINKLERED | DWG. COVER OF |


VA **U.S. Department of Veterans Affairs**
Veterans Health Administration
St. Cloud VA Health Care System



| TYPE(S) OF CONSTRUCTION | | |
|-------------------------------|-----------------------|----------|
| CONSTRUCTION TYPE | (IBC CHAPTER 6) | IBC II-B |
| CONSTRUCTION TYPE (EXISTING) | (IBC CHAPTER 6) | IBC II-B |
| AREA SEPARATIONS / FIRE WALLS | SEE LIFE SAFETY PLANS | |

STAMP

I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly Licensed Architect under the laws of the State of Minnesota.

Name: 

Typed or Printed Name: Tom Olesak

Date: 03/30/2022 License Number: MN# 18157

VA



**U.S. Department
of Veterans Affairs**

Veterans Health
Administration

St. Cloud VA
Health Care System

A

B

C

D

E

F

A

B

C

D

E

F

SEQUENCE OF EVENTS - ZONE 5

- SELECTIVE UPGRADE TO EXISTING INFORMATION TECHNOLOGY TO ENABLE BUILDING TOTAL UPGRADE PROCESS
- INITIAL ICRA AND ILSM
- WITH THE EXCEPTION OF DOOR 116, CONSTRUCT ROOMS AS DIRECTED. SEE ASSOCIATED DRAWINGS FROM STRUCTURAL, ELECTRICAL, MECHANICAL, TELECOM, AND FINISHES
- PROVIDE TEMPORARY DOOR AT SOUTH WALL OF ADDITION
- SELECTIVE DEMOLITION TO ENABLE UPGRADES
- INSTALL COMMON CABLE INFRASTRUCTURE
- CONSTRUCT COMMUNICATION BACKBONE
- INSTALL CAT 6A
- INSTALL TEMPORARY PROTECTION AND CONDUCT SELECTIVE DEMOLITION TO CONSTRUCT DOOR OPENING AND DOOR 116 ON EAST WALL OF ROOM.
- DEMOLISH TEMPORARY DOOR, TIGHTEN WALL, AND COMPLETE EXTERIOR BUILDING FINISHES
- DECOMMISSION EXISTING NON-EHRM INFORMATION TECHNOLOGY ROOMS

SUGGESTED SEQUENCE. FINAL INSTALLATION SEQUENCE TO BE MADE AT A LATER DATE.

ROOM ICRA SCHEDULE

| LEVEL | ROOM NO. | ROOM NAME | CAI BLDG NAME / FUNCTION | CONSTRUCTION PROJECT ACTIVITY | INFECTION CONTROL RISK GROUP | CONTROL PROCEDURE CLASS |
|-------------|----------|--------------|--------------------------|-------------------------------|------------------------------|-------------------------|
| FIRST FLOOR | 114 | EXIST RM | PHARMACY | TYPE B | GROUP 1 | CLASS II |
| FIRST FLOOR | 116 | TELECOM ROOM | PHARMACY | TYPE D | GROUP 1 | CLASS III/IV |

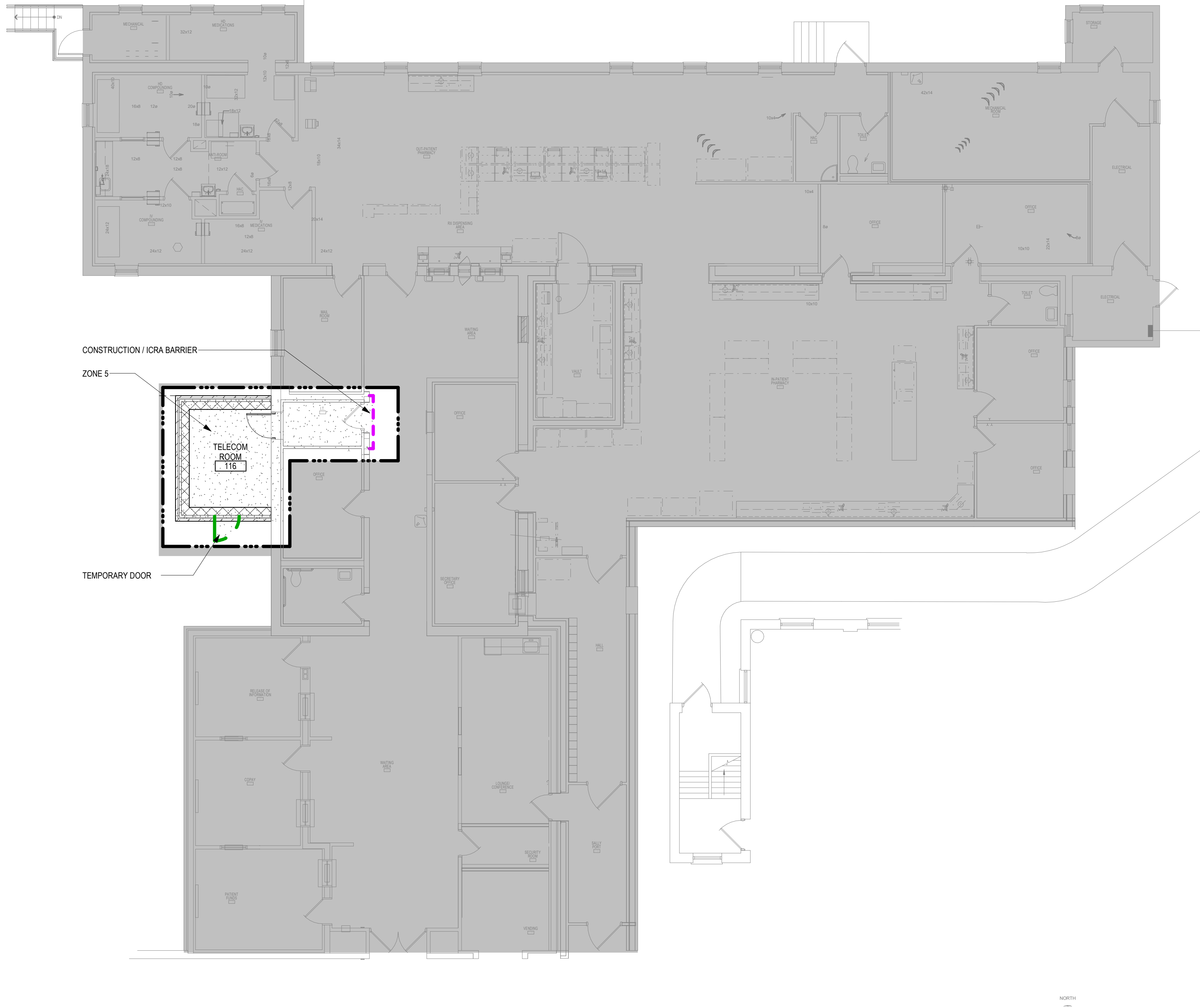
SEE GENERAL NOTES SHEET FOR CONSTRUCTION INFECTION CONTROL RISK ASSESSMENT (ICRA) DESCRIPTIONS. TYPE, GROUP AND CLASS SELECTED TO BEST OF DESIGN TEAM'S KNOWLEDGE. FINAL DETERMINATION BY THE VA WILL BE MADE AT A LATER DATE.

INFECTION CONTROL RISK ASSESSMENT (ICRA) LEGEND

LIMITS OF CONSTRUCTION

1 HOUR FIRE RATED ICRA / CONSTRUCTION BARRIER LOCATION, AND DOOR, WHERE SHOWN

TEMPORARY NON-RATED (PLASTIC SHEETING) CONSTRUCTION BARRIER LOCATION, WHERE APPROVED BY THE VA FOR USE IN RISK TYPE B. UPGRADE TO 1 HOUR RATED PARTITION WHEN DIRECTED BY THE VA



1 FIRST FLOOR - CONST BARRIER PLAN
1/8" = 1'-0"

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Name: *Tom Olesak*
Typed or Printed Name: Tom Olesak
Date: 03/30/2022 License Number: MN# 18157

DRAWING TITLE

FIRST FLOOR - INFECTION CONTROL & PHASING PLAN

PROJECT TITLE

EHRM INFRASTRUCTURE UPGRADES

DATE

03/30/2022

PLOT SCALE

656-21-235

DRAWING NO.

5-GI111

BUILDING NO.

5

CHECKED BY

EM

DRAWN

BMW

LOCATION

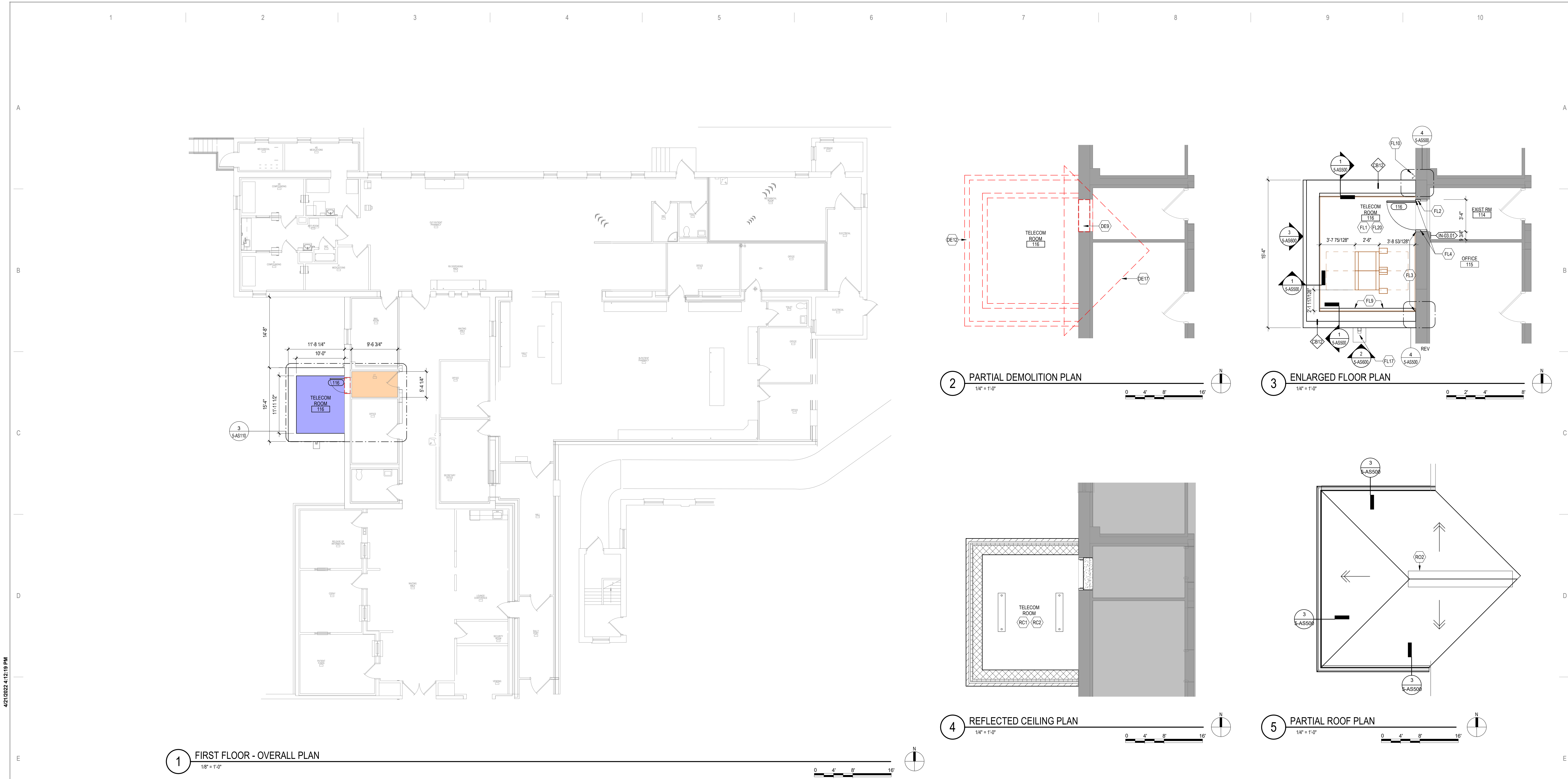
VA MEDICAL CENTER
ST. CLOUD, MN 56303

FULLY
SPRINKLERED

DWG. OF

U.S. Department
of Veterans Affairs

Veterans Health
Administration
St. Cloud VA
Health Care System



DEMOLITION PLAN KEYED NOTES

DE9 REMOVE AND SALVAGE EXISTING MASONRY WALL ASSEMBLY AS REQUIRED FOR NEW DOOR INSTALLATION.

DE12 REFER TO STRUCTURE FOR EXCAVATION EXTENTS OF FOOTING AND FOUNDATIONS.

DE17 PARTIALLY REMOVE SHINGLES, GUTTER, ALL ASSOCIATED SHEATHING AND ROOF FRAMING ETC. AS REQUIRED FOR INSTALLATION OF NEW ROOFING.

NOTE: NOT ALL KEYED NOTES MAY BE USED ON EACH PLAN

FLOOR PLAN KEYED NOTES

FL1 4" BY 8" AC GRADE 1/2" TRADE SIZE PLYWOOD BACKBOARD PAINTED HIGH-GLOSS WHITE WITH TWO COATS OF FIRE RESISTANT PAINT FOR SERVICE PROVIDER / SECURITY / VIDEO / ET CETERA

FL2 DOOR, SIZE AS SCHEDULED, FIRE RESISTANT AS SCHEDULED

FL3 UPGRADE PARTITION TO 1 HOUR FIRE AND SMOKE BARRIER, PROVIDE TESTED HEAD OF PARTITION ASSEMBLY WITH MATERIALS THAT RESIST THE PASSAGE OF SMOKE, SEAL JOINT AT HEAD AND ALL PENETRATIONS WITH FIRE CAULK.

FL4 PATCH TO MATCH FINISHES DISTURBED BY CONSTRUCTION TO MATCH EXISTING FLOOR AND WALL, CONTRACTOR TO PROVIDE LABOR AND MATERIAL.

FL9 AT REMOVED TEMPORARY DOOR, TOOTH IN BLOCK.

FL10 EXIST BUILDING FIRE DEPARTMENT CONNECTION, MODIFY TO MAINTAIN ACCESS.

FL17 PREFINISHED METAL DOWNSPOUT AND PRECAST CONCRETE SPLASH BLOCK

FL20 TELECOM EQUIPMENT, SEE TELECOM DRAWINGS.

NOTE: NOT ALL KEYED NOTES MAY BE USED ON EACH PLAN

REFLECTED CEILING PLAN KEYED NOTES

RC1 LED LIGHTING, SEE ELECTRICAL, IN FRONT OF AND BEHIND CABINET ROWS PROVIDE 500 LUMENS IN HORIZONTAL AND 200 LUMENS IN THE VERTICAL AT 3 FT AFF. OPERATED BY MOTION SENSOR PER CABINET ROW OR SECTION.

RC2 OPEN TO STRUCTURAL FLOOR ABOVE

NOTE: NOT ALL KEYED NOTES MAY BE USED ON EACH PLAN

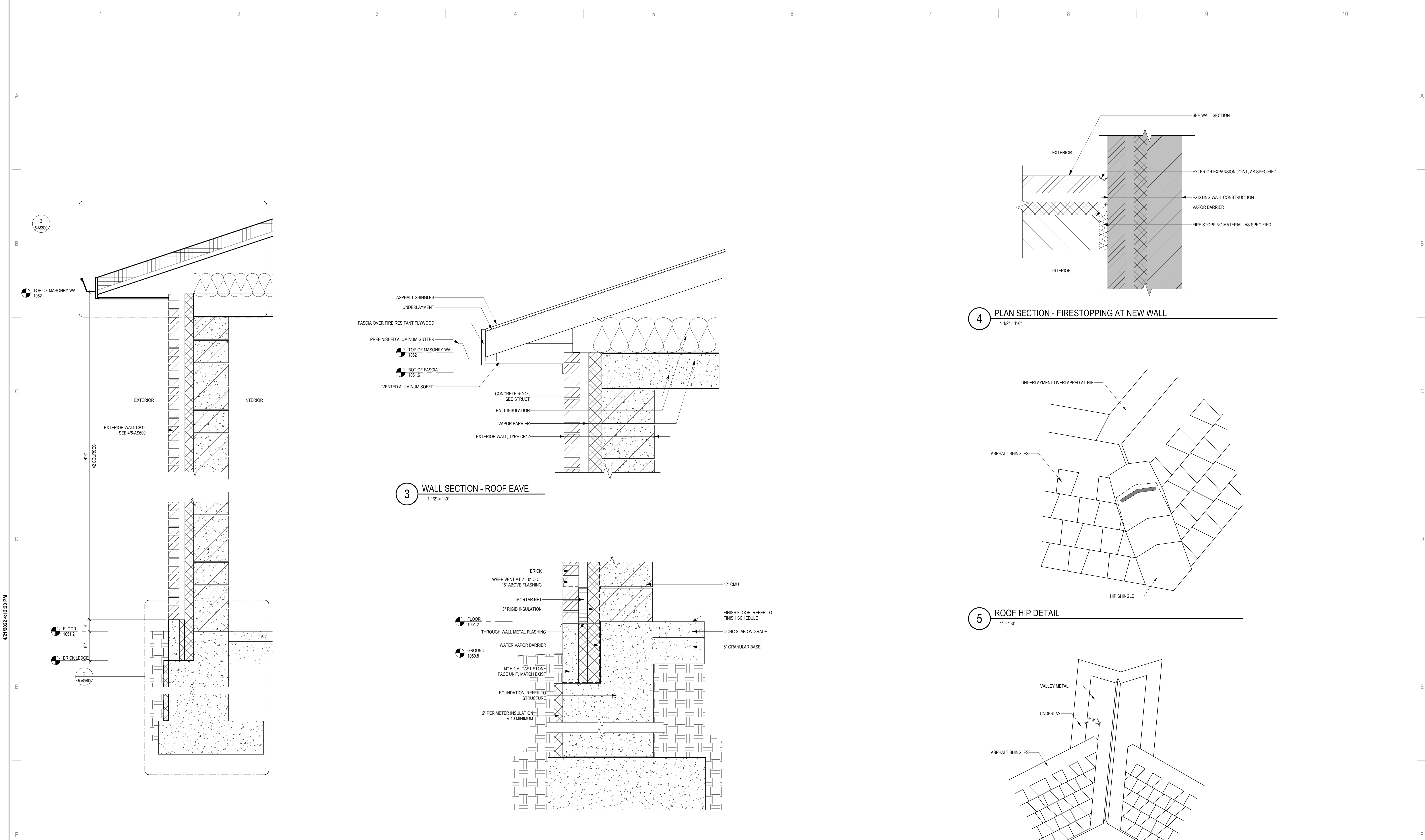
ROOF PLAN KEYED NOTES

RO2 INSTALL RIDGE ROOF VENT TO THE EXTENTS SHOWN

NOTE: NOT ALL KEYED NOTES MAY BE USED ON EACH PLAN

SHEET NOTES

- SEE GENERAL NOTES AND CAMPUS DRAWINGS FOR GENERAL INFORMATION, LIFE SAFETY, ICRA, AND PHASING
- ALL EXISTING CONDITIONS MUST BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO DEMOLITION OR CONSTRUCTION. EXISTING CONDITIONS THAT DIFFER FROM THOSE SHOWN MUST BE BROUGHT TO THE ATTENTION OF THE C.O.R. TO INFORM THE ARCHITECTS AND ENGINEERS.
- THE INFORMATION SHOWN ON THE DRAWINGS IS BASED ON DRAWINGS AND PHOTOGRAPHS PROVIDED BY THE C.O.R. COMBINED WITH OBSERVATIONS AND SURVEYED DATA FROM THE ARCHITECTS AND ENGINEERS.
- SEE CIVIL, STRUCTURAL, TELECOM, ELECTRICAL, MECHANICAL, AND PLUMBING DRAWINGS AND SPECIFICATIONS FOR ADDITIONAL DEMOLITION AND CONSTRUCTION REQUIREMENTS.
- PORTABLE FIRE EXTINGUISHERS (CO2 OR HALOGENATED TYPE AS DETERMINED BY VAI) WITH WALL MOUNT BRACKET AND CODE REQUIRED SIGNAGE SHALL BE PROVIDED BY THE CONTRACTOR WITHIN TELECOM ROOMS.



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Name: *Tom Olesak*

Typed or Printed Name: Tom Olesak
Date: 03/30/2022 License Number: MN# 18157

DRAWING TITLE

SECTIONS, DETAILS

PROJECT TITLE

EHRM INFRASTRUCTURE
UPGRADES

DATE

03/30/2022

PLOT SCALE

656-21-235

BUILDING No

5

CHECKED BY

EM

DRAWN

BMW

DRAWING NO.

5-AS500

LOCATION

VA MEDICAL CENTER
ST. CLOUD, MN 56303

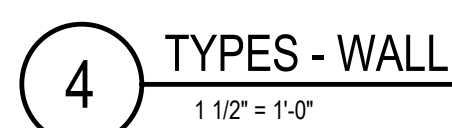
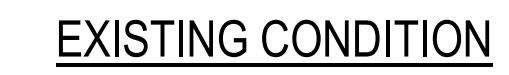
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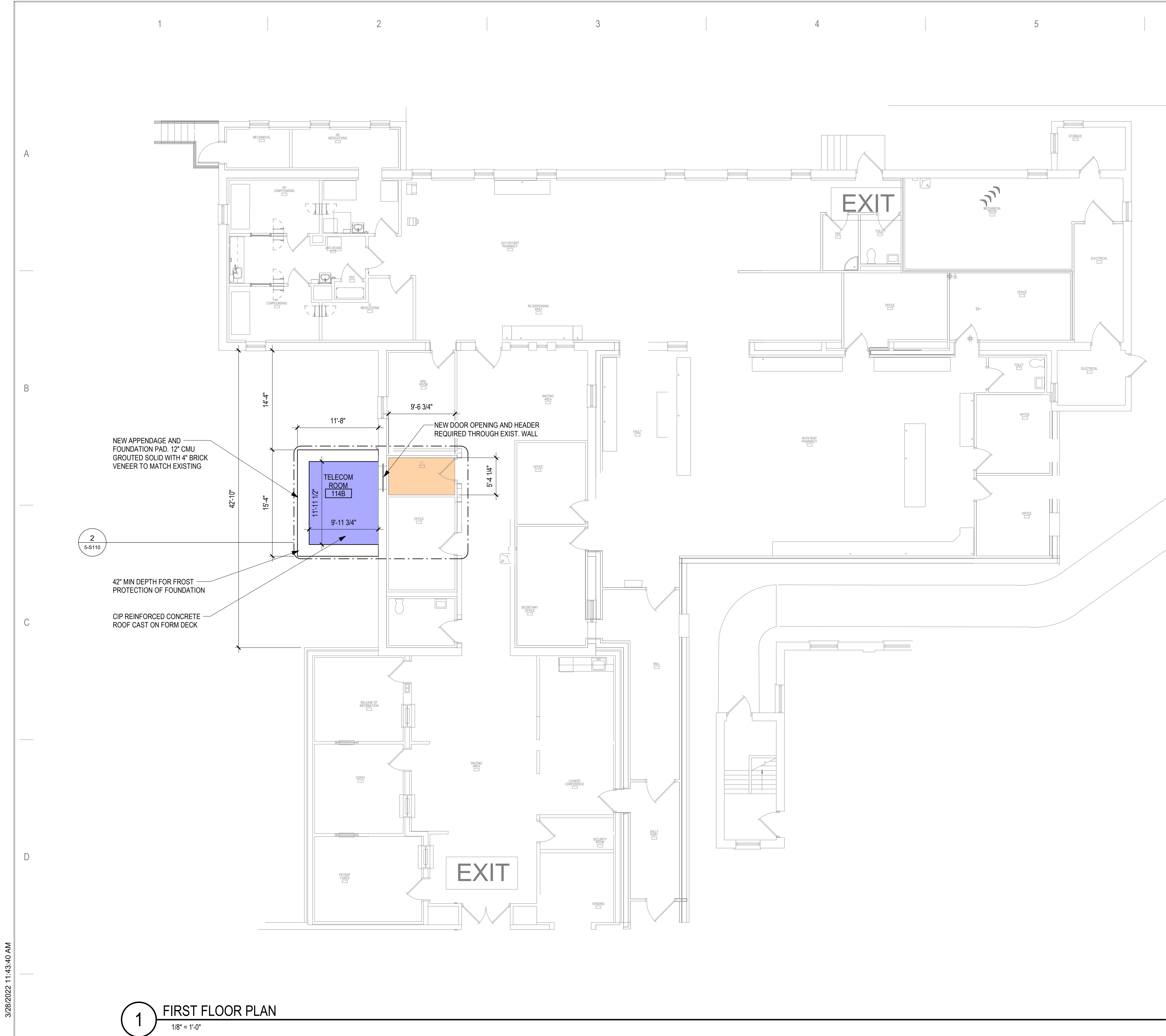
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U.S. Department
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Veterans Health
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St. Cloud VA
Health Care System

NOTE: NOT ALL KEYED NOTES MAY BE USED ON EACH PLAN

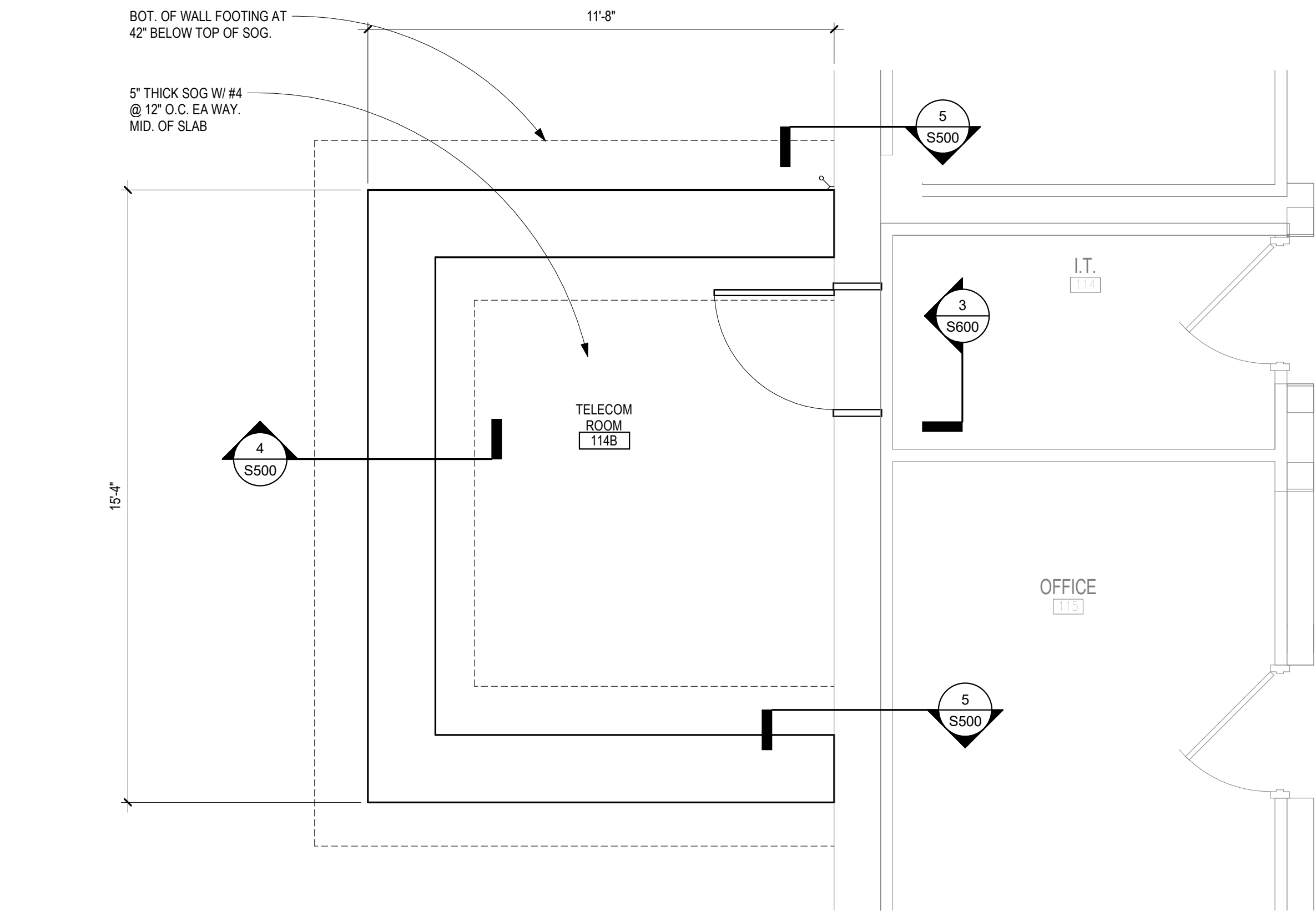




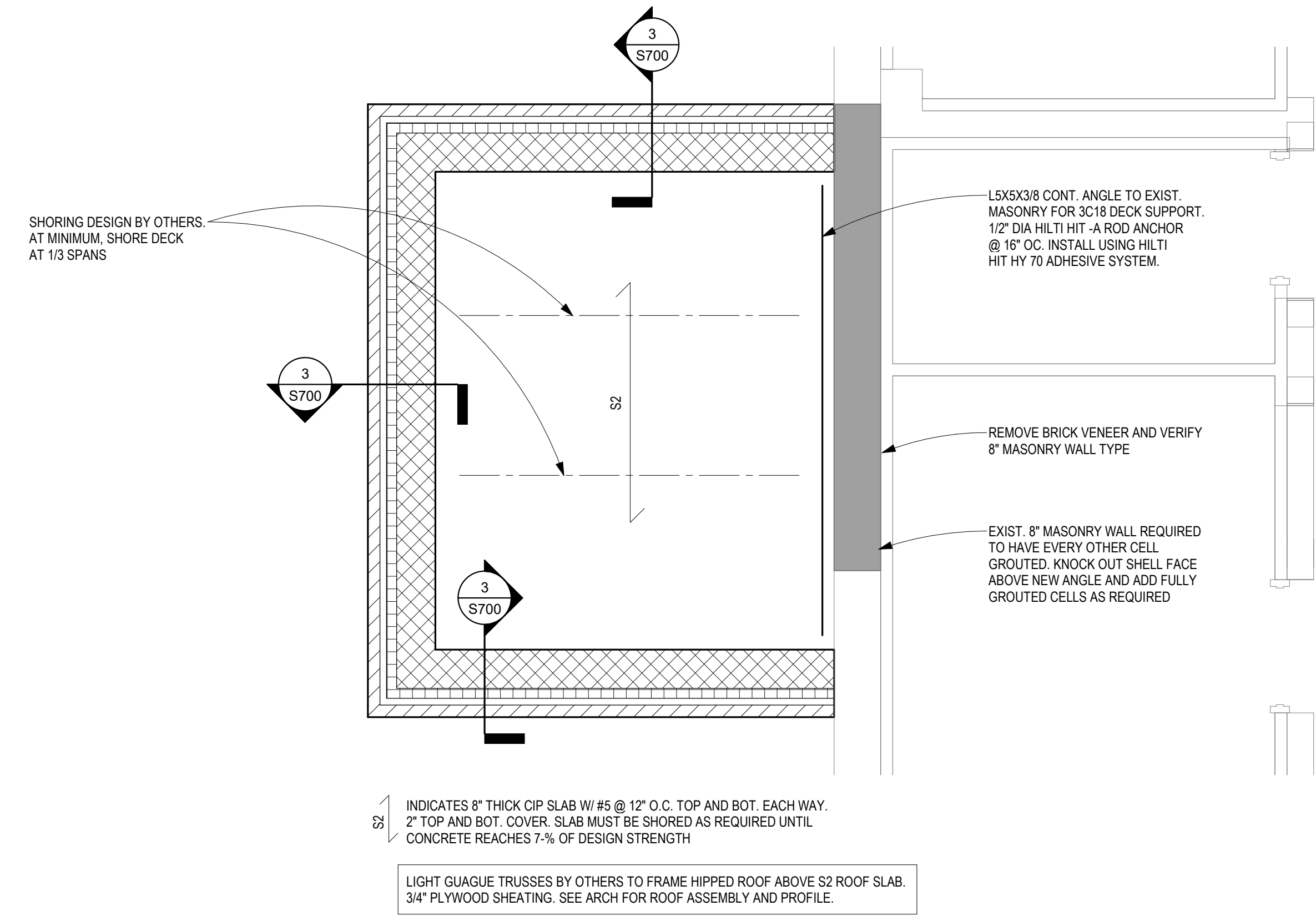
1 FIRST FLOOR PLAN
1/8" = 1'-0"

SHEET NOTES:

1. ALL EXISTING CONDITIONS MUST BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. ANY EXISTING CONDITIONS THAT DIFFER FROM THOSE SHOWN ON THE STRUCTURAL DRAWINGS MUST BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE STRUCTURAL ENGINEER (IN WRITING).
2. THE INFORMATION SHOWN ON THE DRAWING IS BASED ON THE EXISTING STRUCTURAL DRAWINGS, SURVEYED DATA AND PHOTOGRAPHS OF THE EXISTING BUILDING PROVIDED BY ARCH.
3. SEE ARCHITECTURAL PLANS FOR ALL OPENING LOCATIONS, DIMENSIONS AND INTERIOR PARTITIONS.
4. SEE PLAN, SCHEDULES AND SHEET S100 FOR DESIGN LOADS.
5. DO NOT CUT, CORE OR DEMOLISH ANY EXISTING BEAMS. OPENINGS MUST SHIFT TO AVOID AS-BUILT LOCATION OF BEAMS.
6. ALL EXISTING PARTITIONS ARE ASSUMED TO BE OF LIGHT GAUGE CONSTRUCTION UNLESS NOTED OTHERWISE. GC TO NOTIFY EOR IF DEMO WORK AT INTERIOR PARTITIONS CONTAIN STRUCTURAL/ROLLED STEEL OR ARE OF MASONRY/CIP CONSTRUCTION.
7. ALL NEW OPENINGS GREATER THAN 5" IN DIAMETER OR 5'-5" ARE REQUIRED TO BE REINFORCED.
8. MASONRY WALL SHALL BE 12" BLOCK WITH #5 VERT BARS EACH FACE @ 16" OC UNLESS NOTED OTHERWISE.



2 ENLARGED FLOOR PLAN
3/8" = 1'-0"



3 ROOF PLAN
3/8" = 1'-0"

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STAMP

REGISTRATION

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A QUALY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

PRINT NAME: Zachary D. Craig

SIGNATURE: [Signature]

DATE: 7/7/2022 LICENSE #57219

DRAWING TITLE

FIRST FLOOR PLANS

PROJECT TITLE

EHRM INFRASTRUCTURE UPGRADES

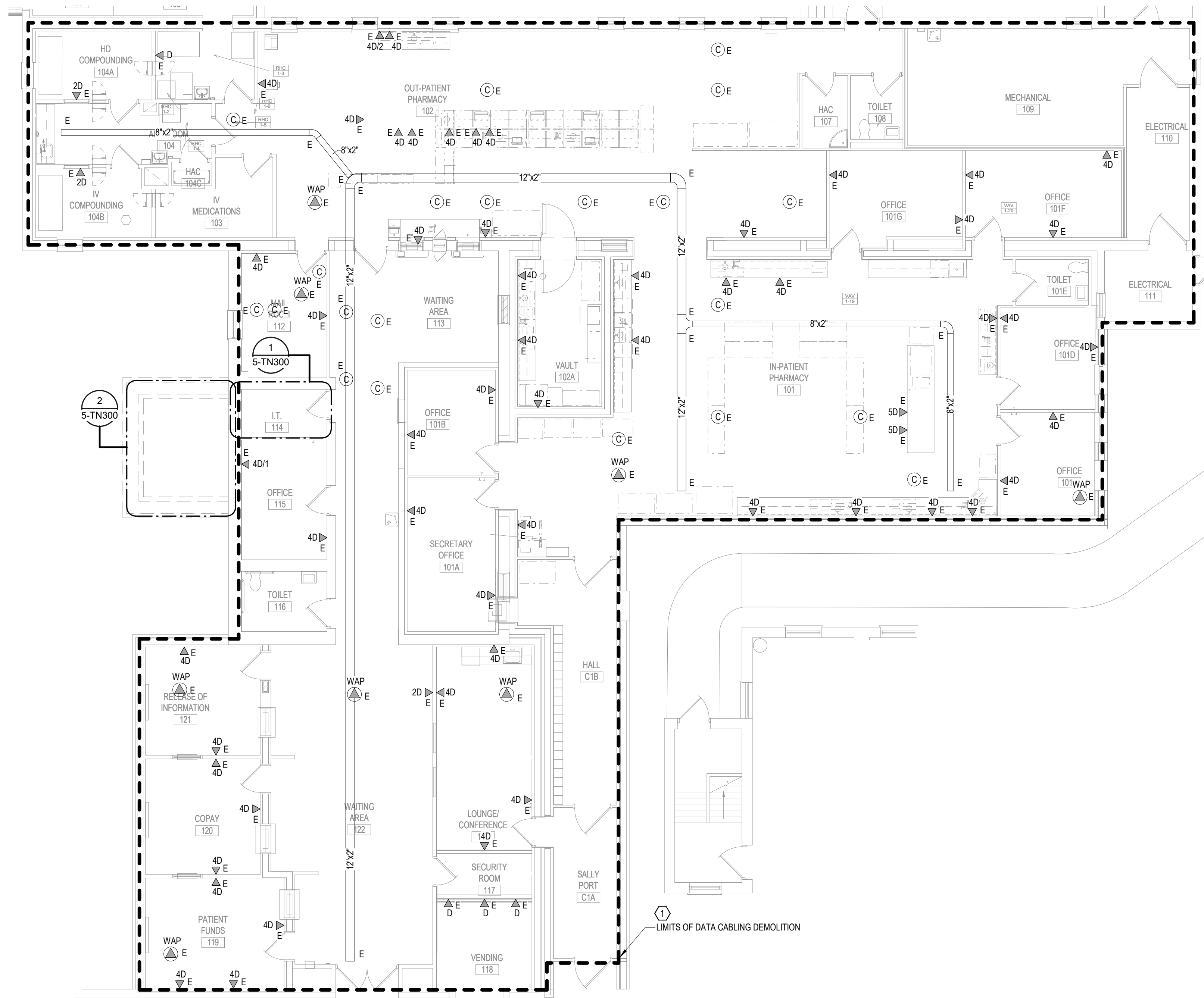
DATE: 03/30/2022
PLOT SCALE:
PROJECT NO: 656-21-235
DRAWING NO: 5-1110
LOCATION: VA MEDICAL CENTER ST. CLOUD, MN 56303
FULLY SPRINKLERED
DWS OF

VA

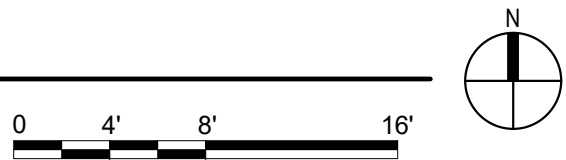
U.S. Department of Veterans Affairs
Veterans Health Administration
St. Cloud VA Health Care System

GENERAL NOTES:
A. REFER TO GENERAL DEMOLITION NOTES ON SHEET T000 FOR ADDITIONAL DEMOLITION SCOPE.

SHEET NOTES:
1. REMOVE AND REPLACE EXISTING DATA CABLE. REMOVE ALL EXISTING DATA CABLES AND JACKS THROUGHOUT THIS AREA. REPLACE CABLES AND JACKS 1 FOR 1, AS REQUIRED BY THE NEW WORK PLANS. REFER TO NEW WORK PLANS FOR SERVING COMMUNICATIONS ROOM LOCATION AND NEW CABLING ROUTES.



1 FIRST FLOOR PLAN - TELECOM - DEMOLITION
1/8" = 1'-0"



BIM 360/21/102.001 - VA St Cloud EHRM Infrastructure Upgrades/656-235 B06.T_R21.rvt 5/11/2022 3:28:00 PM

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Bicsi
Nathan Timm
BICS I ID # 346555
EXPIRES 12-31-24

Nathan M. Timm

DRAWING TITLE

FIRST FLOOR PLAN - TELECOM - DEMOLITION

PROJECT TITLE
EHRM INFRASTRUCTURE UPGRADES

DATE
03/30/2022

PLOT SCALE
656-21-235

DRAWING NO.
S-TD110

BUILDING NO.
5

CHECKED BY
KSB

DRAWN
SSK

LOCATION
VA MEDICAL CENTER
ST. CLOUD, MN 56303

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DWG. OF

VA

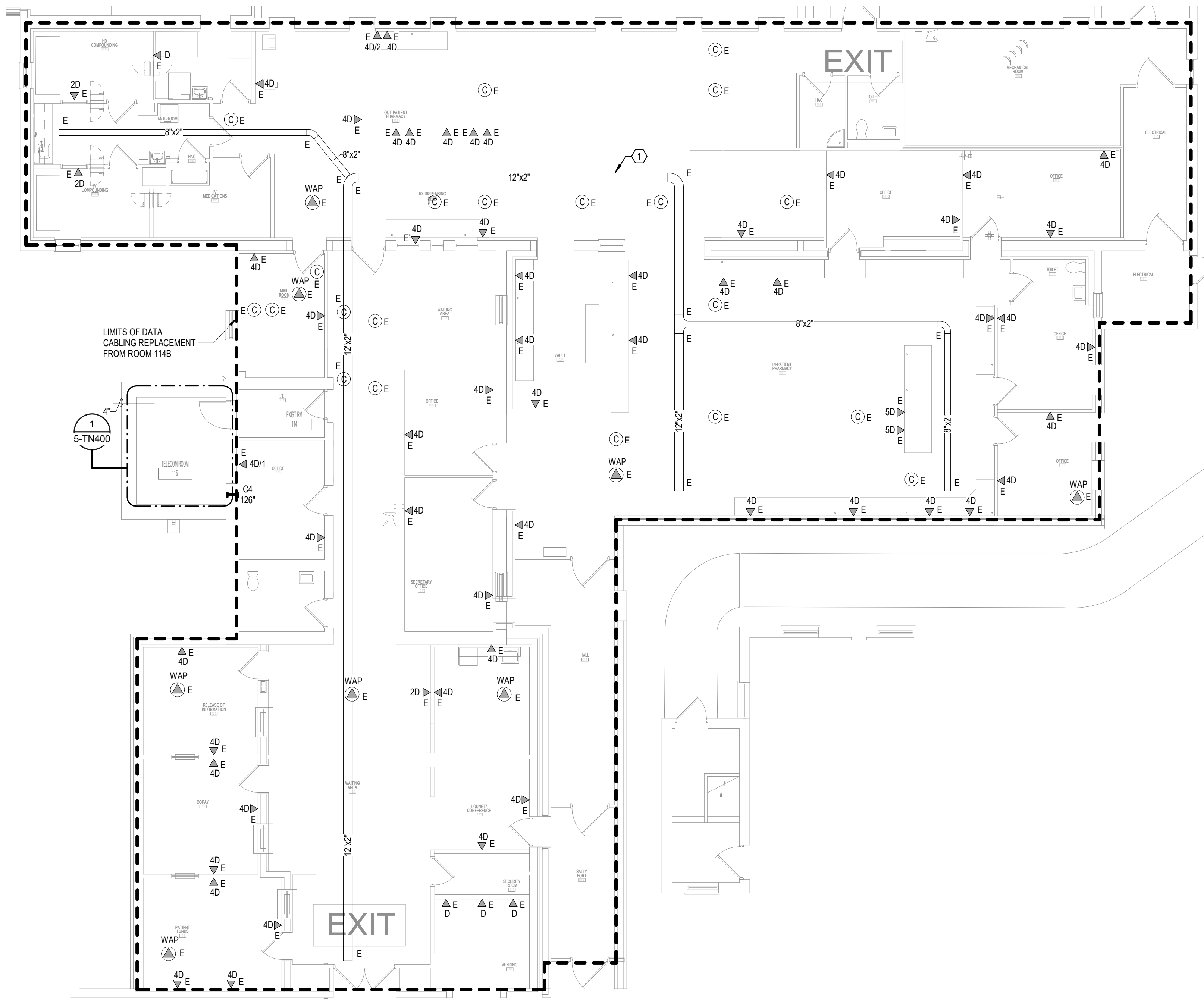
U.S. Department of Veterans Affairs
Veterans Health Administration
St. Cloud VA Health Care System

GENERAL NOTES:

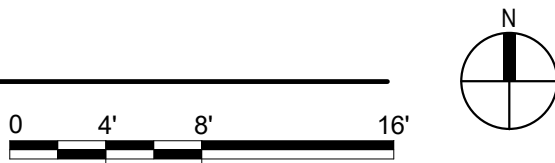
A. REFER TO GENERAL NOTES ON SHEET T000 FOR ADDITIONAL SCOPE.

SHEET NOTES:

1. CONTRACTOR TO PROVIDE NEW WIRE BASKET, AS NEEDED, TO MAINTAIN A 50% OR LESS FILL OF THE CABLE TRAY SYSTEM FOR THE FLOOR. THE NEW WIRE BASKET WILL MATCH THE SIZE AND DISTANCE, EITHER BESIDE OR BELOW THE EXISTING CABLE TRAY, TO MATCH THE EXISTING TELECOM CABLE TRAY.



1 FIRST FLOOR PLAN - TELECOMMUNICATIONS
1/8" = 1'-0"



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DRAWING TITLE

FIRST FLOOR PLAN -
TELECOMMUNICATIONS

PROJECT TITLE

EHRM INFRASTRUCTURE
UPGRADES

BUILDING No
5

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DATE
03/30/2022

PLOT SCALE

PROJECT NO
656-21-235

DRAWING NO
S-TN110

LOCATION
VA MEDICAL CENTER
ST. CLOUD, MN 56303

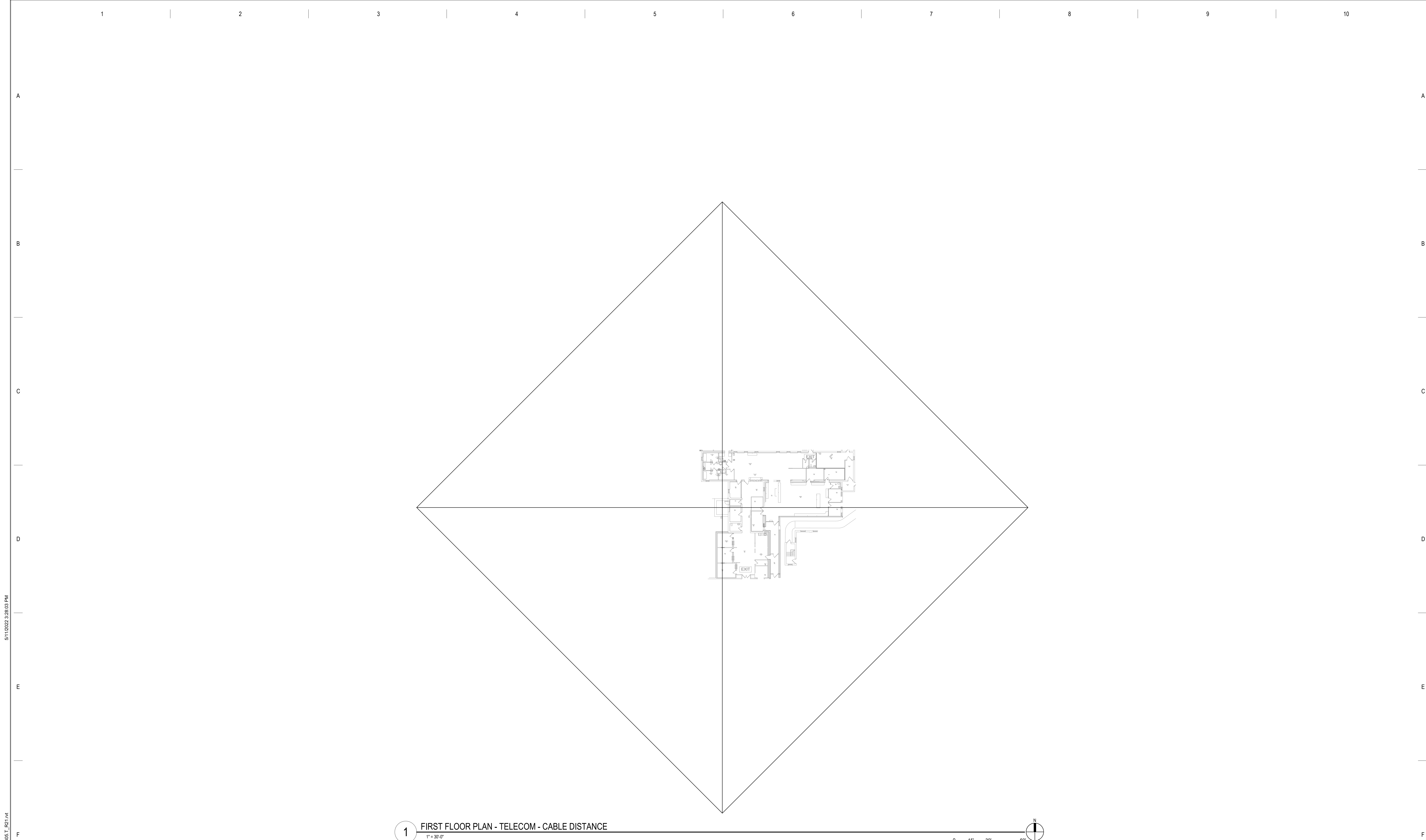
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Administration
St. Cloud VA
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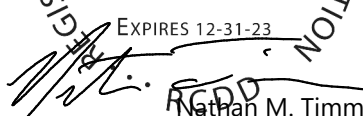
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Nathan Timm

BICSID ID # 346555

EXPIRES 12-31-24



Nathan M. Timm

DRAWING TITLE

FIRST FLOOR PLAN -
TELECOM - CABLE DISTANCE

PROJECT TITLE
EHRM INFRASTRUCTURE
UPGRADES

BUILDING No
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DATE
03/30/2022

PLOT SCALE

PROJECT NO
656-21-235

DRAWING NO
S-TN210

LOCATION
VA MEDICAL CENTER
ST. CLOUD, MN 56303

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EXPIRES 12-31-24

DRAWING TITLE

ENLARGED PLANS -
TELECOMMUNICATIONS

PROJECT FILE

EHRM INFRASTRUCTURE
UPGRADES

DATE

03/30/2022

PLOT SCALE

PROJECT NO.

656-21-235

DRAWING NO.

5-TN400

BUILDING No

5

CHECKED BY

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LOCATION

VA MEDICAL CENTER
ST. CLOUD, MN 56303

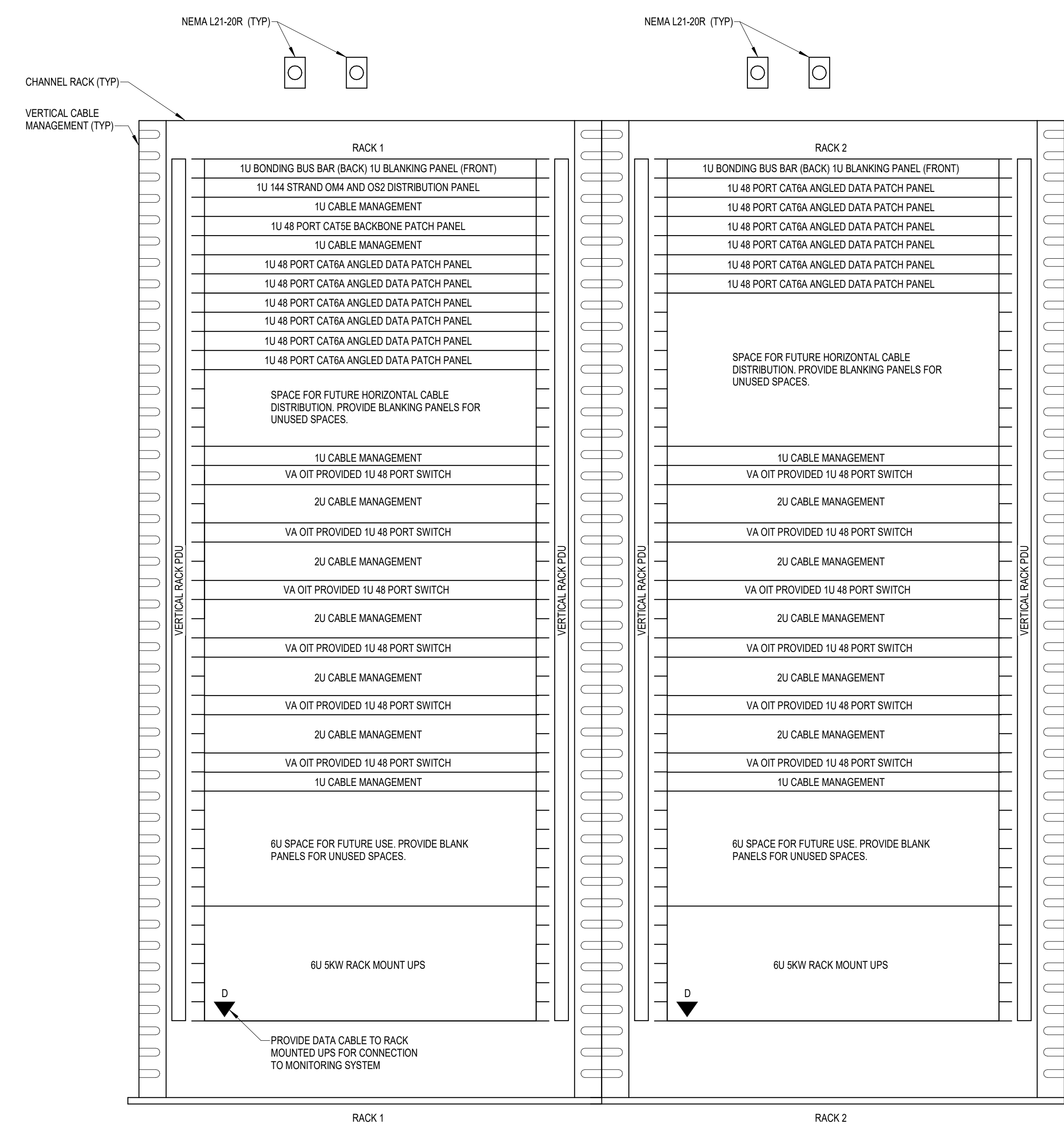
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of Veterans Affairs

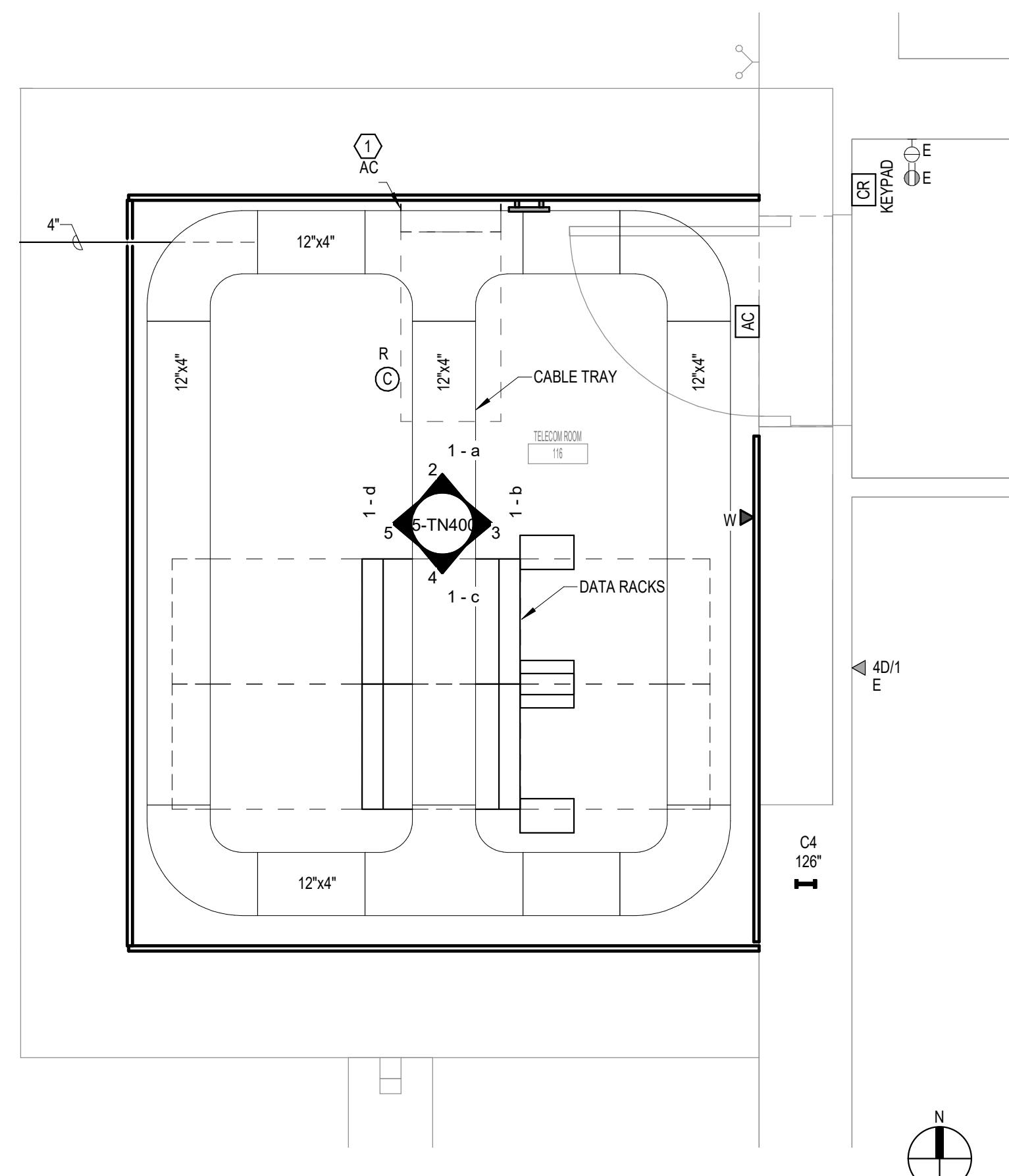
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6 COMMUNICATIONS - TYPICAL TWO RACK ELEVATION WITH RACK MOUNT UPS - TR 116
NOT TO SCALE



- NOTES:
- REFER TO NEW WORK PLAN FOR RACK LOCATIONS.
 - COORDINATE EXACT RACK COUNT AND LOCATION WITH OWNER PRIOR TO PERMANENT INSTALLATION.
 - SEE PROJECT SPECIFICATIONS FOR ADDITIONAL RACK COMPONENTS.
 - RACK ELEVATION SHOWS A FULLY CONFIGURED SAMPLE RACK. CONTRACTOR TO PROVIDE REQUIRED EQUIPMENT TO SUPPORT THE FINAL DATA COUNT FROM THE ENLARGED NEW SHEET. (NOT TO EXCEED 288 PORTS PER RACK).
 - COORDINATE FINAL RACK COMPONENT LAYOUT WITH OWNER'S ISIT REPRESENTATIVE.
 - CONTRACTOR IS RESPONSIBLE FOR FINAL CABLE COUNT, QUANTITY OF PATCH PANELS, SWITCHES, FIBER ENCLOSURES, BLANKING PANELS, CABLE MANAGEMENT, AND MOUNTING HARDWARE NOT MARKED AS "OIT PROVIDED".
 - PUNCHDOWN COPPER BACKBONES ON RACK MOUNT PATCH PANELS. TERMINATE ONE (1) PAIR PER PATCH PANEL PORT.

1 ENLARGED PLAN - TR 116 - TELECOM - CABLE TRAY AND DATA
1/2" = 1'-0"



- GENERAL NOTES:**
- A. REFER TO GENERAL DEMOLITION NOTES ON SHEET T000 FOR ADDITIONAL DEMOLITION SCOPE.
- SHEET NOTES:**
1. PROVIDE A NEW ACCESS CONTROL PANEL TO BE INSTALLED IN THE TELECOM ROOM. THE CARD READER AND KEYPAD FOR THIS ROOM TO BE WIRED TO THE NEW ACCESS CONTROL PANEL. EXISTING CARD READERS AND KEYPADS WILL BE MOVED TO THE NEW CONTROL PANEL UNDER A DIFFERENT PROJECT.
- CABLING NOTE:**
- CABLING NOTES:
A. THE EXISTING CABLE COUNT ARE THE CABLES CURRENTLY PRESENT IN THE SPACE.
THE CABLE RELOCATION COUNT ARE THE NEW OR RELOCATED CABLES TO BE FED FROM THE SPACE. THE FINAL CABLE COUNT ARE THE CABLES THAT WILL BE PRESENT IN THE SPACE AT THE COMPLETION OF THE PROJECT.
1. ROOM 116
EXISTING CABLE COUNT
DATA (CAT6): 0
DATA (CAT5e): 0
DATA (CAT5): 0
DATA (CAT3): 0
CABLE RELOCATION COUNT
DATA (CAT6): 0
DATA (CAT5e): 243 FROM 114
DATA (CAT5): 0
DATA (CAT3): 0
EXISTING CABLE TO REMAIN
DATA (CAT6): 0
DATA (CAT5e): 0
DATA (CAT5): 0
DATA (CAT3): 0
FINAL CABLE COUNT
DATA (CAT6): 243
DATA (CAT5): 0



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- KEYNOTES:**
- 1. INDOOR UNIT TO BE POWERED BY OUTDOOR UNIT. COORDINATE EXACT LOCATION WITH M.C.
 - 2. CONNECT SMOKE DETECTOR TO NEAREST EXISTING SLIC.
 - 3. COORDINATE PLANT LOCATION OF RECEPTION L21-30R WITH TELECOM CONTRACTOR. PROVIDE 3/4"X4"10, 1/4"10 GND TO PANEL FOR EACH RECEPTACLE.
 - 4. PROVIDE 120/208V, 3-PHASE 4-WIRE MOUNTED UPS FOR EACH RACK TOWER.
 - 5. PROVIDE 100V/208V 1PDU RACK PDU LG WITH L21-50P, 208V, 3-PHASE, 20A, ZERO U, 2-208V, (36) C13 (6) C13 (2) 5-208V, 3-PHASE, 20A, ZERO U, 2-208V, MOUNTED PER MANUFACTURER'S REQUIREMENTS.
 - 6. PROVIDE 120/208V MOUNTED UPS 3-PHASE, 30 AMP 3-PHASE, 120/208V, 5-WIRE WITH (4) L21-30R, (5) 5-20R and two 10 POWER CORDS, 20NITZPDS-208V-30A-L21-412-20R, CR.

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A

B

C

D

E

F

KEYNOTES: #

1. PROVIDE NEW 100A/3P CIRCUIT BREAKER IN EXISTING SWITCHBOARD TO MATCH EXISTING TYPE AND AIC RATING.

MOUNTING: SURFACE
ENCLOSURE: NEMA PB 1
FED FROM: 5MDP
LOCATION:

PANEL B5IT-1

SOLID NEUTRAL
GROUND BUS

MAIN: 100 A MCB
VOLTS: 120/208 Wye
PHASE: 3
WIRE: 4
SCCR: 10 kA

NOTES: PROVIDE INTEGRAL ELECTRIC METER IN PANEL

| KEY | CKT NO. | LOAD DESCRIPTION | OCPD AMPS | P | WIRE SIZE | | | A | B | C | WIRE SIZE | | | OCPD AMPS | LOAD DESCRIPTION | CKT NO. | KEY | | |
|-------------|---------|------------------|-----------|----|-----------|----|----|----------|------|----------|-----------|------|----|-----------|------------------|-----------------------|-------|----|----|
| | | | | | H | N | G | | | | G | N | H | | | | | | |
| | 1 | L21-30R RACK | 30 A | 3 | | | | 3 | 0.44 | | | | | 1 | 20 A | TELECOM ROOM LIGHTING | 2 | | |
| -- | 3 | -- | -- | -- | -- | -- | -- | | 3 | 0.18 | | | | 1 | 20 A | W/P GFI REC. | 4 | | |
| -- | 5 | -- | -- | -- | -- | -- | -- | | | | 3 | 0.54 | | 1 | 20 A | TELECOM ROOM REC. | 6 | | |
| -- | 7 | SPARE | 20 A | 1 | -- | -- | -- | 0 | 0 | | | | -- | -- | 1 | 20 A | SPARE | 8 | -- |
| -- | 9 | SPARE | 20 A | 1 | -- | -- | -- | | 0 | 0 | | | -- | -- | 1 | 20 A | SPARE | 10 | -- |
| -- | 11 | SPARE | 20 A | 1 | -- | -- | -- | | | 0 | 0 | | -- | -- | 1 | 20 A | SPARE | 12 | -- |
| -- | 13 | SPARE | 20 A | 1 | -- | -- | -- | 0 | 0 | | | | -- | -- | 1 | 20 A | SPARE | 14 | -- |
| -- | 15 | SPARE | 20 A | 1 | -- | -- | -- | | 0 | 0 | | | -- | -- | 1 | 20 A | SPARE | 16 | -- |
| -- | 17 | SPARE | 20 A | 1 | -- | -- | -- | | | 0 | 0 | | -- | -- | 1 | 20 A | SPARE | 18 | -- |
| -- | 19 | SPARE | 20 A | 1 | -- | -- | -- | 0 | 0 | | | | -- | -- | 1 | 20 A | SPARE | 20 | -- |
| -- | 21 | SPARE | 20 A | 1 | -- | -- | -- | | 0 | 0 | | | -- | -- | 1 | 20 A | SPARE | 22 | -- |
| -- | 23 | SPARE | 20 A | 1 | -- | -- | -- | | | 0 | 0 | | -- | -- | 1 | 20 A | SPARE | 24 | -- |
| -- | 25 | SPARE | 20 A | 1 | -- | -- | -- | 0 | 0 | | | | -- | -- | 1 | 20 A | SPARE | 26 | -- |
| -- | 27 | SPARE | 20 A | 1 | -- | -- | -- | | 0 | 0 | | | -- | -- | 1 | 20 A | SPARE | 28 | -- |
| -- | 29 | SPARE | 20 A | 1 | -- | -- | -- | | | 0 | 0 | | -- | -- | 1 | 20 A | SPARE | 30 | -- |
| Total Load: | | | 3.44 kVA | | | | | 3.18 kVA | | 3.54 kVA | | | | | | | | | |
| Total Amps: | | | 29.04 | | | | | 26.50 | | 29.84 | | | | | | | | | |

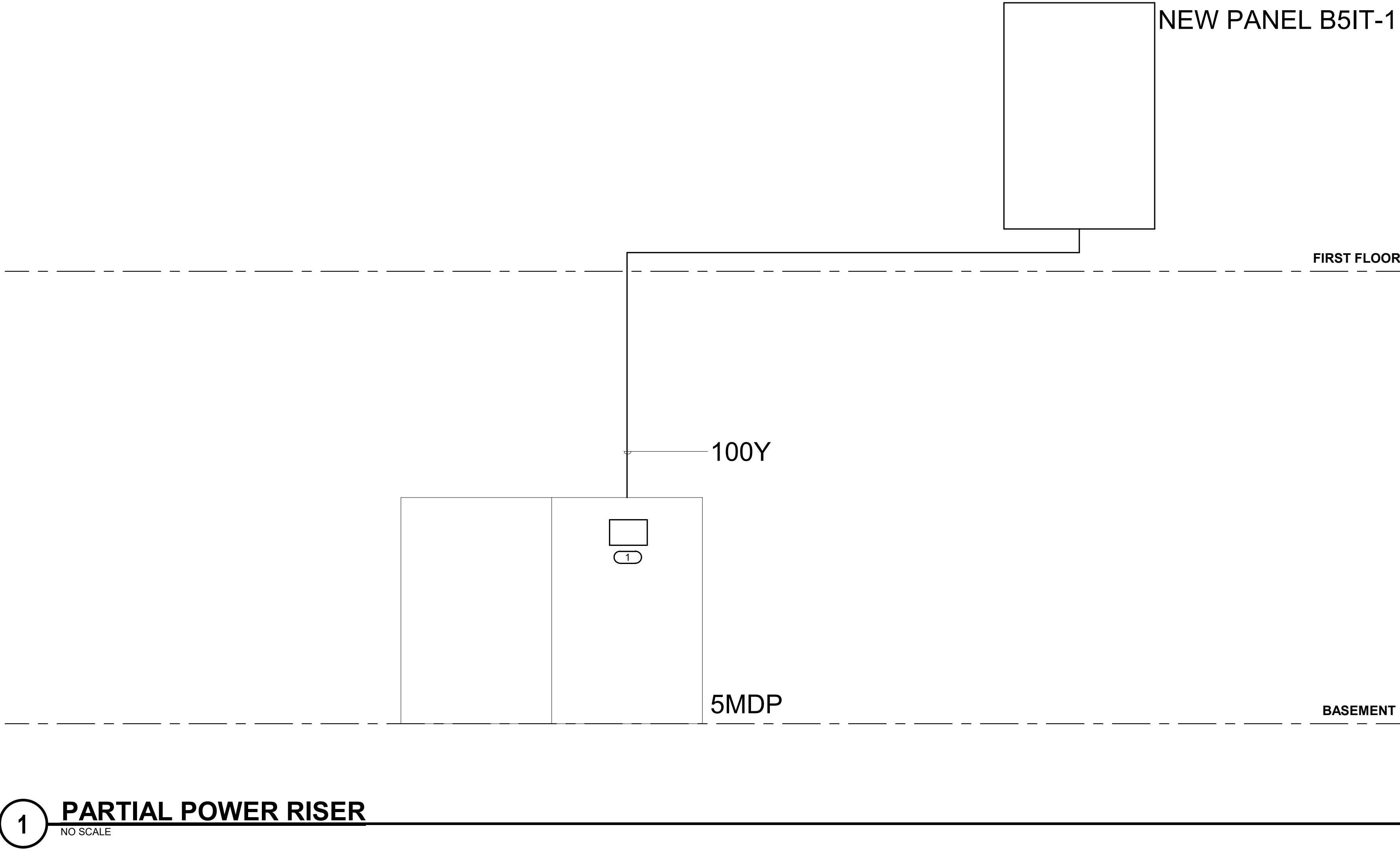
| LOAD SUMMARY | | | |
|---------------------|----------------|---------------|------------------|
| LOAD CLASSIFICATION | CONNECTED LOAD | DEMAND FACTOR | ESTIMATED DEMAND |
| Lighting | 0.444 kVA | 100.00% | 0.444 kVA |
| Power | 9 kVA | 100.00% | 9 kVA |
| Receptacles | 0.72 kVA | 100.00% | 0.72 kVA |

TOTALS*

| | |
|------------------------------|------------|
| TOTAL CONNECTED LOAD: | 10.16 kVA |
| TOTAL ESTIMATED DEMAND LOAD: | 10.164 kVA |
| TOTAL CONNECTED AMPS: | 28.21 A |
| TOTAL ESTIMATED DEMAND AMPS: | 28.2 A |

*TOTAL DEMAND CALCS SUBTRACT ANY REDUNDANT LOAD AND THE SMALLER OF ANY NONCOINCIDENT HVAC LOADS. THIS CALC IS DONE AT EACH PANEL.

CIRCUIT KEY NOTES:



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STAMP

DRAWING TITLE

ELECTRICAL DIAGRAMS &
SCHEDULES

PROJECT TITLE

EHRM INFRASTRUCTURE
UPGRADES

DATE

03/30/2022

PLOT SCALE

PROJECT NO.

656-21-235

DRAWING NO.

05-E400

BUILDING NO.

5

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TBD

DRAWN

GJL

LOCATION

VA MEDICAL CENTER
ST. CLOUD, MN 56303

FULLY
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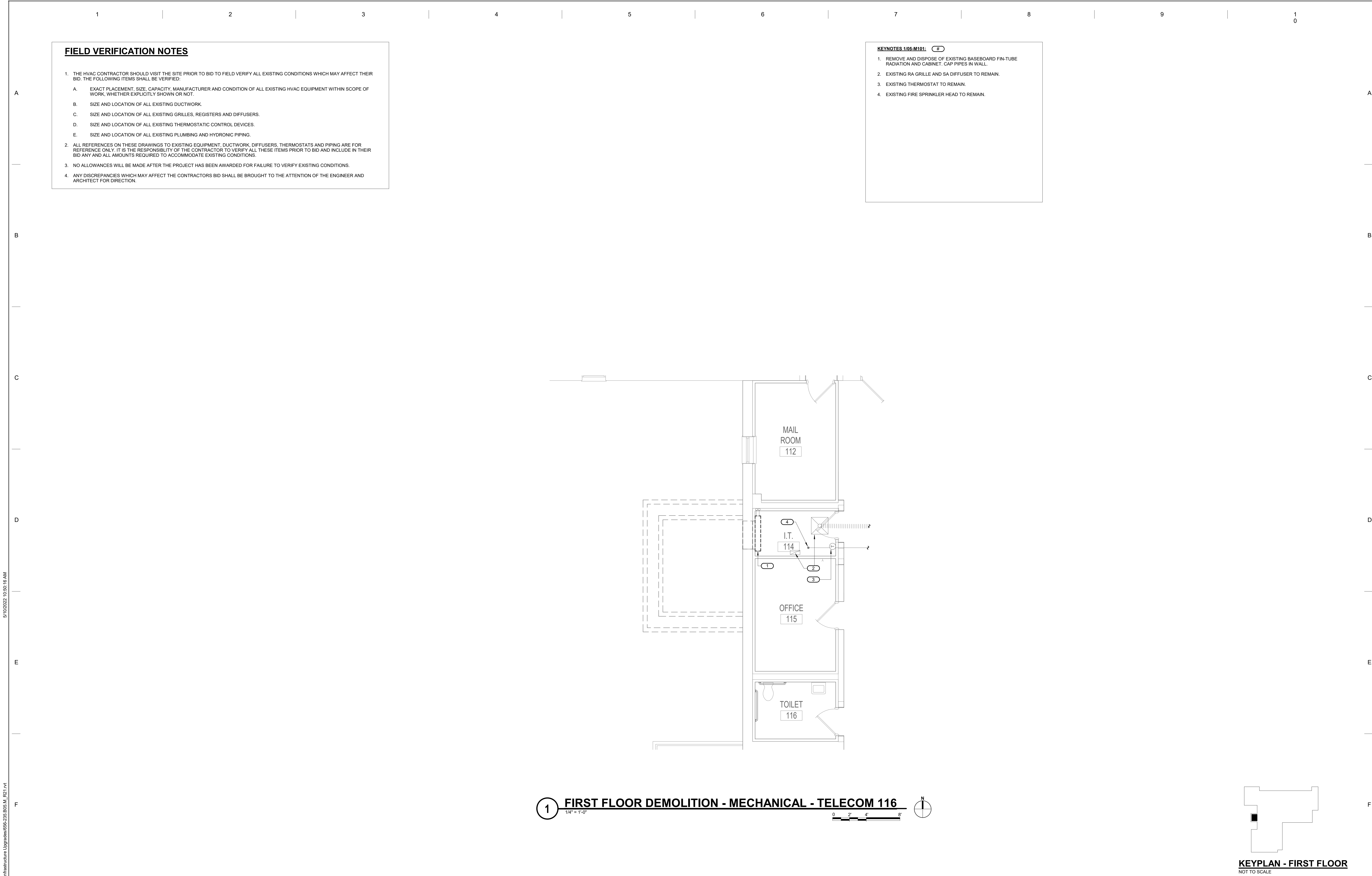
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Health Care System



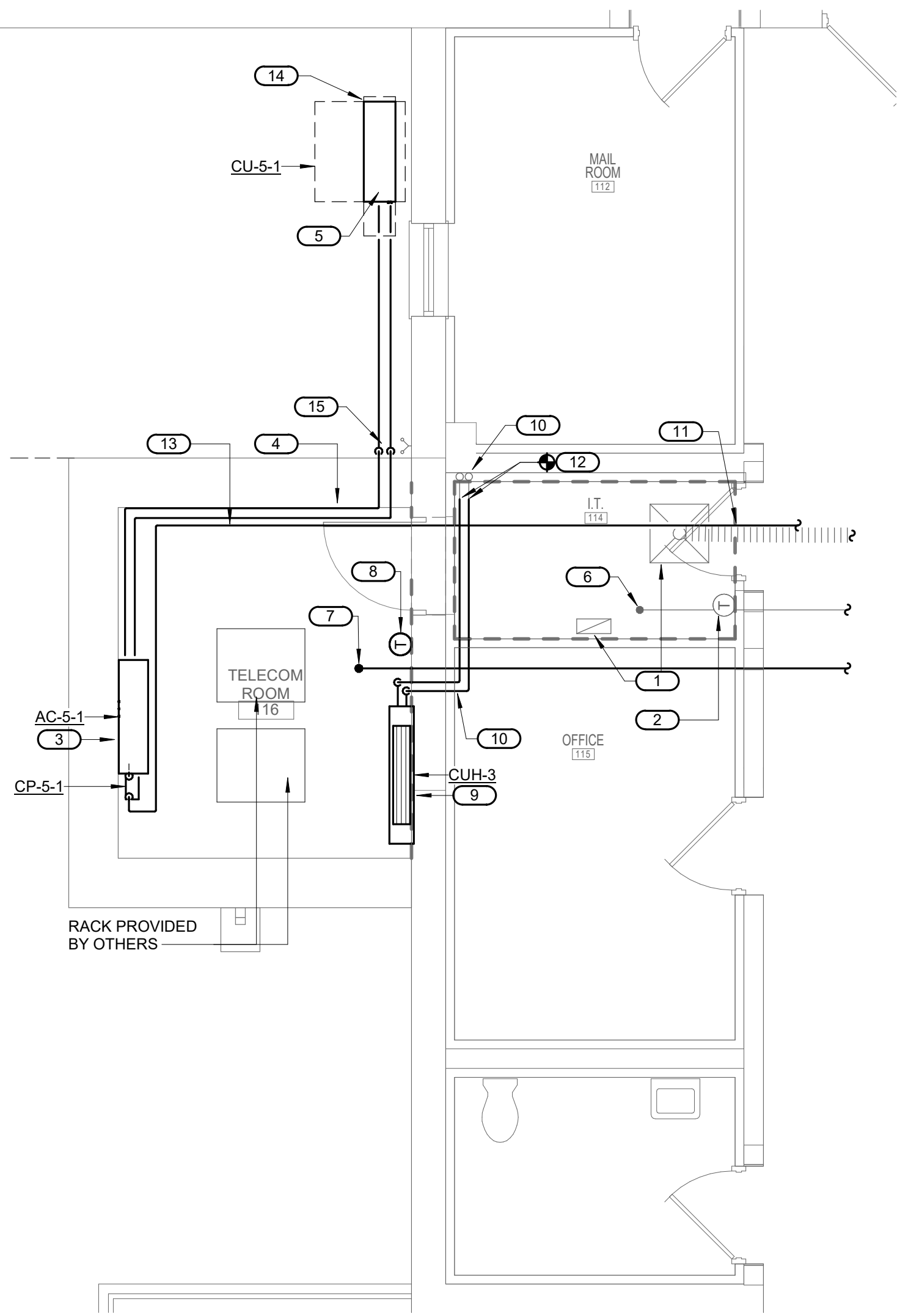
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FIELD VERIFICATION NOTES

- THE HVAC CONTRACTOR SHOULD VISIT THE SITE PRIOR TO BID TO FIELD VERIFY ALL EXISTING CONDITIONS WHICH MAY AFFECT THEIR BID. THE FOLLOWING ITEMS SHALL BE VERIFIED:
 - EXACT PLACEMENT, SIZE, CAPACITY, MANUFACTURER AND CONDITION OF ALL EXISTING HVAC EQUIPMENT WITHIN SCOPE OF WORK, WHETHER EXPLICITLY SHOWN OR NOT.
 - SIZE AND LOCATION OF ALL EXISTING DUCTWORK.
 - SIZE AND LOCATION OF ALL EXISTING GRILLES, REGISTERS AND DIFFUSERS.
 - SIZE AND LOCATION OF ALL EXISTING THERMOSTATIC CONTROL DEVICES.
 - SIZE AND LOCATION OF ALL EXISTING PLUMBING AND HYDRONIC PIPING.
- ALL REFERENCES ON THESE DRAWINGS TO EXISTING EQUIPMENT, DUCTWORK, DIFFUSERS, THERMOSTATS AND PIPING ARE FOR REFERENCE ONLY. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY ALL THESE ITEMS PRIOR TO BID AND INCLUDE IN THEIR BID ANY AND ALL AMOUNTS REQUIRED TO ACCOMMODATE EXISTING CONDITIONS.
- NO ALLOWANCES WILL BE MADE AFTER THE PROJECT HAS BEEN AWARDED FOR FAILURE TO VERIFY EXISTING CONDITIONS.
- ANY DISCREPANCIES WHICH MAY AFFECT THE CONTRACTORS BID SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER AND ARCHITECT FOR DIRECTION.

KEYNOTES 1/05-M201: (B)

- EXISTING RA GRILLE AND SA DIFFUSER TO REMAIN.
- EXISTING THERMOSTAT TO REMAIN.
- NEW WALL-MOUNTED COOLING UNIT AC-S-1.
- ROUTE NEW REFRIGERANT PIPING TO CU-S-1 UNIT ON GRADE.
- NEW AIR COOLED CONDENSING UNIT ON GRADE. PROVIDE NEW CONCRETE PAD.
- EXISTING FIRE SPRINKLER HEAD TO BE REMAIN.
- NEW FIRE SPRINKLER HEAD. TIE INTO SPRINKLER MAIN IN CORRIDOR. FIELD VERIFY EXACT LOCATION.
- NEW THERMOSTAT - WIRE AS COMMON TO BOTH NEW AC UNIT AND NEW CUH.
- NEW HYDRONIC CABINET UNIT HEATER. REFERE TO DETAIL 4/0-GM400.
- RE-ROUTE EXISTING HEATING WATER PIPING TO SERVE NEW CUH. FIELD VERIFY REQUIREMENTS.
- PIPE CONDENSATE TO MOP SINK LOCATED IN HAC ROOM, APPROX. 120 FEET NORTHEAST.
- TIE NEW HEATING PIPING INTO EXISTING CAPPED LINES. FIELD VERIFY REQUIREMENTS. FIELD VERIFY PIPE SIZES AND LOCATIONS.
- PROVIDE CONDENSATE DRIP PANS FOR ALL CONDENSATE PIPING.
- REFER TO 3/0-GM401 FOR UNIT MOUNTING DETAIL.
- REFERE TO 4/0-GM401 FOR WALL PENETRATION SEALING DETAIL.

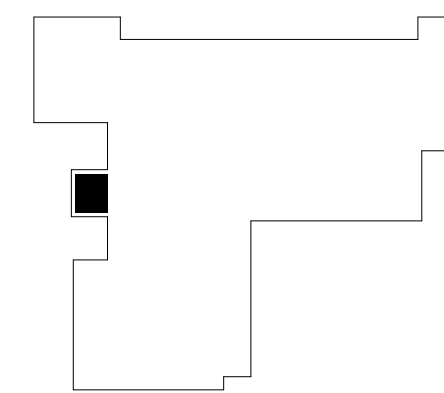
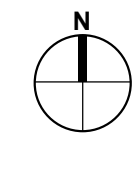


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FIRST FLOOR - MECHANICAL - TELECOM 116

1/4" = 1'-0"

0 2' 4' 8'



KEYPLAN - FIRST FLOOR
NOT TO SCALE

| No | REVISION | DATE |
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| 100% CD | | 03/30 |

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STAM

I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly Licensed Engineer under the laws of the State of Minnesota.

Name: _____
Date: 03/30/2022
License Number: MNE 05-M201

DRAWING TITLE
FIRST FLOOR REMODEL - MECHANICAL

| | | |
|---|------------|----------------------|
| PROJECT TITLE | | |
| EHRM INFRASTRUCTURE UPGRADES | | |
| BUILDING No | CHECKED BY | DRAWN |
| 5 | RDL | DJC |
| LOCATION | | FULLY SPRINKLERED |
| VA MEDICAL CENTER ST.CLOUD, MN 56303 | | |

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