

# BUILDING 14 - EHRM INFRASTRUCTURE UPGRADES

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

### 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

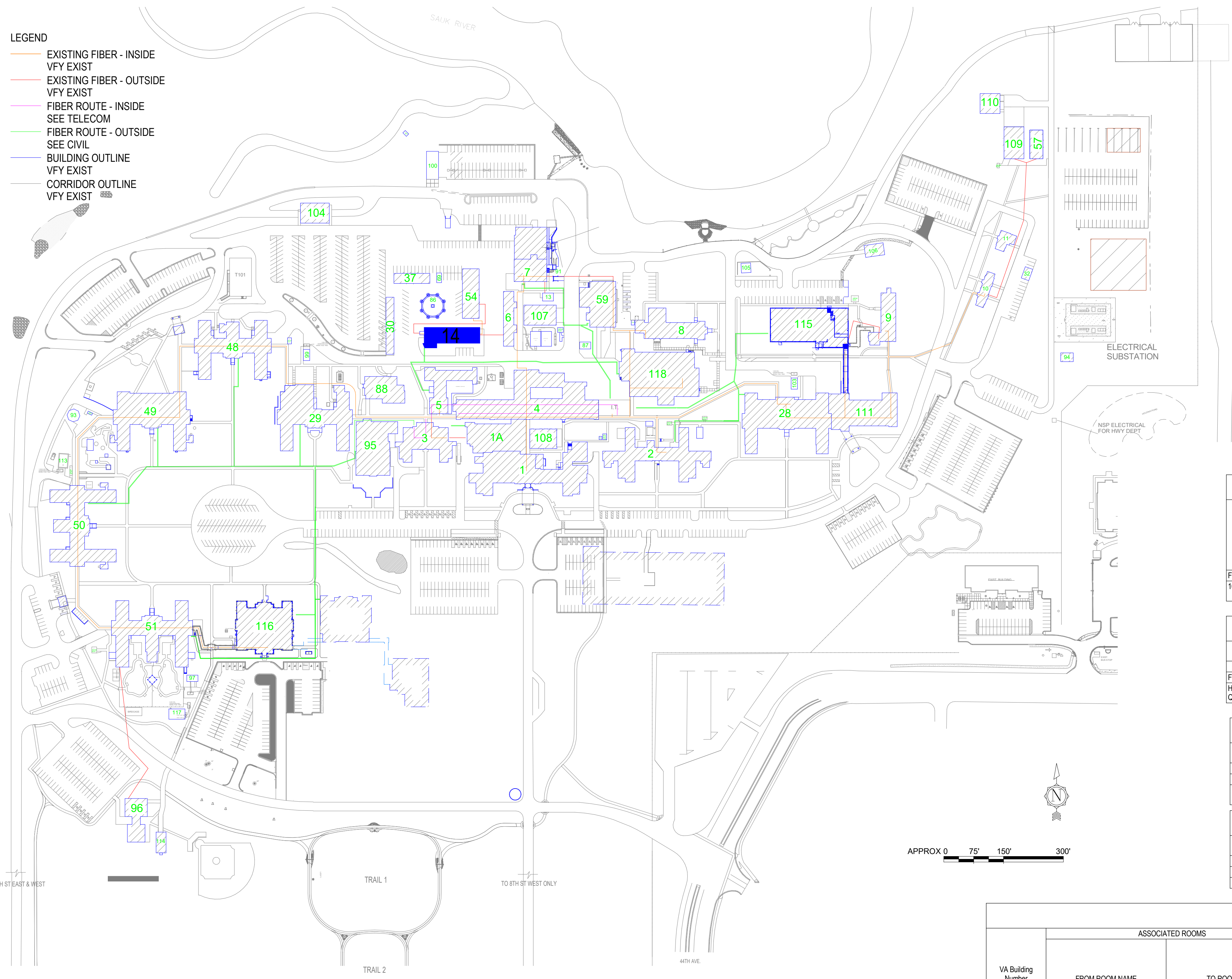
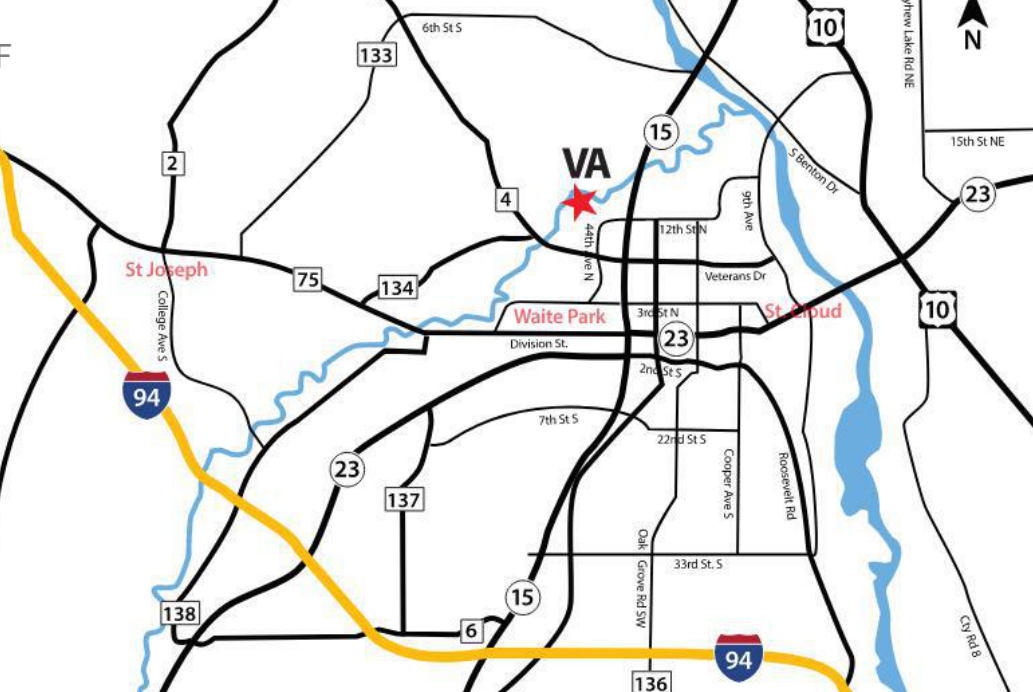
TELECOMMUNICATIONS ENGINEER:  
NAME: SPECIALIZED ENGINEERING SOLUTIONS  
ADDRESS: 10390 ELLISON CIRCLE  
OMAHA, NE 68134

CONTACT: KRIS BURNHAM  
PHONE: 402-991-5520

MECHANICAL/PLUMBING/FIRE ENGINEER:  
NAME: SPECIALIZED ENGINEERING SOLUTIONS  
ADDRESS: 10390 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 14	
SHEET NO.	SHEET TITLE
14-G1000	BUILDING 14 COVER SHEET & SHEET INDEX
14-G1111	FIRST FLOOR INFECTION CONTROL & PHASING PLAN
14-HA-1A	REFERENCE - BASEMENT FIRST FLOOR ASBESTOS RE-SURVEY
14-AS110	FIRST FLOOR PLANS
14-TD110	FIRST FLOOR PLAN - TELECOM - DEMOLITION
14-TN110	FIRST FLOOR PLAN - TELECOMMUNICATIONS
14-TN210	FIRST FLOOR PLAN - TELECOM - CABLE DISTANCE
14-TN400	ENLARGED PLANS - TELECOMMUNICATIONS
14-E101	FIRST FLOOR DEMOLITION - ELECTRICAL
14-E201	FIRST FLOOR - ELECTRICAL
14-E300	ELECTRICAL ENLARGED PLANS
14-E400	ELECTRICAL ONE-LINE DIAGRAMS
14-E500	ELECTRICAL SCHEDULES
14-M101	FIRST FLOOR DEMOLITION PLAN - MECHANICAL
14-M201	FIRST FLOOR PLAN REMODEL - MECHANICAL
SEE GENERAL SHEETS FOR ADDITIONAL INFORMATION	

ROOM SCHEDULE																	
NO.	NAME	CABELING	PATCH/PANEL	FIBER	POWER	BONDING	UPS	DEDICATED COOLING	TEMPERATURE	HUMIDITY	ROCK SENSOR	SPACE / FE	AREA	WIDTH (FT)	LENGTH (FT)	HT TO CLG. STRUCT	REMARKS
FIRST FLOOR	101A	TELECOM ROOM		X	X	X	X	X	X	X	X		57 SF	5.9	9.6	13.75	UPDATE EXIST IT/DATA ROOM FOR EHRM TELECOM ENCLOSURE. SEE TELECOM DRAWINGS

HAZARDOUS MATERIAL SCHEDULE				
LEVEL	ROOM NO.	ROOM NAME	QUESTIONABLE HAZARDOUS ELEMENT	POSSIBLE ABATEMENT ACTION
FIRST FLOOR	101A	TELECOM ROOM	NONE. SEE 14-HA-1A	NONE. ACM TO REMAIN UNDISTURBED

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	101A	TELECOM ROOM	WAREHOUSE	TYPE C	GROUP 1	CLASS II	CENTER	OCCUPIED CONSTRUCTION	DAY

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.

LEAK PREVENTION / DIVERTER SCHEDULE				
LEVEL	ROOM NO.	ROOM NAME	OVERHEAD LEAK DIVERTER AND DRAIN PIPING	LEAK PREVENTION BARRIER WATERPROOFING
FIRST FLOOR	101A	TELECOM ROOM		

SEE GENERAL NOTES SHEET FOR DETAIL. MWP = MEMBRANE WATERPROOFING, MASONRY = FLUID-APPLIED WATERPROOFING, INT = INTERIOR, EXT = EXTERIOR

OPENING SCHEDULE											
Va Building Number	ASSOCIATED ROOMS		OPENING		PANEL INFORMATION			FRAME INFORMATION		NEW GROUP	FIRE LABEL (MIN)
	FROM ROOM NAME	TO ROOM NAME	NUMBER	WIDTH	HEIGHT	PANEL TYPE	2ND PANEL TYPE	PANEL GLAZING	FRAME TYPE		

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NO.	REVISION	DATE

**CONSULTANT**

**SPECIALIZED ENGINEERING SOLUTIONS**  
10360 Ellison Circle  
Omaha, NE 68134  
Phone: 402-991-5530  
www.specializedeng.com

**ARCHITECT/ENGINEER OF RECORD**

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


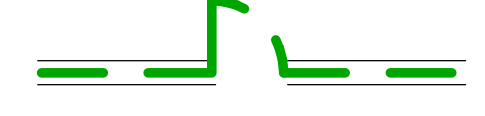

APPROVED PROJECTOR	DATE	APPROVED PATIENT SAFETY	DATE	APPROVED O&M MANAGER	DATE	APPROVED DIRECTOR/FM	DATE
APPROVED SERVICE LINE DIRECTOR	DATE	APPROVED SAFETY MANAGER	DATE	APPROVED MO MANAGER	DATE	APPROVED ASSOCIATE DIRECTOR	DATE
APPROVED O&M COORDINATOR	DATE	APPROVED CHIEF OF POLICE	DATE	APPROVED PROJECTS SECTION MANAGER	DATE	APPROVED NURSE EXECUTIVE	DATE
APPROVED INFECTION CONTROL NURSE	DATE	APPROVED O&M MANAGER	DATE	APPROVED ASSISTANT CHIEF ENGINEER	DATE	APPROVED CHIEF OF STAFF	DATE

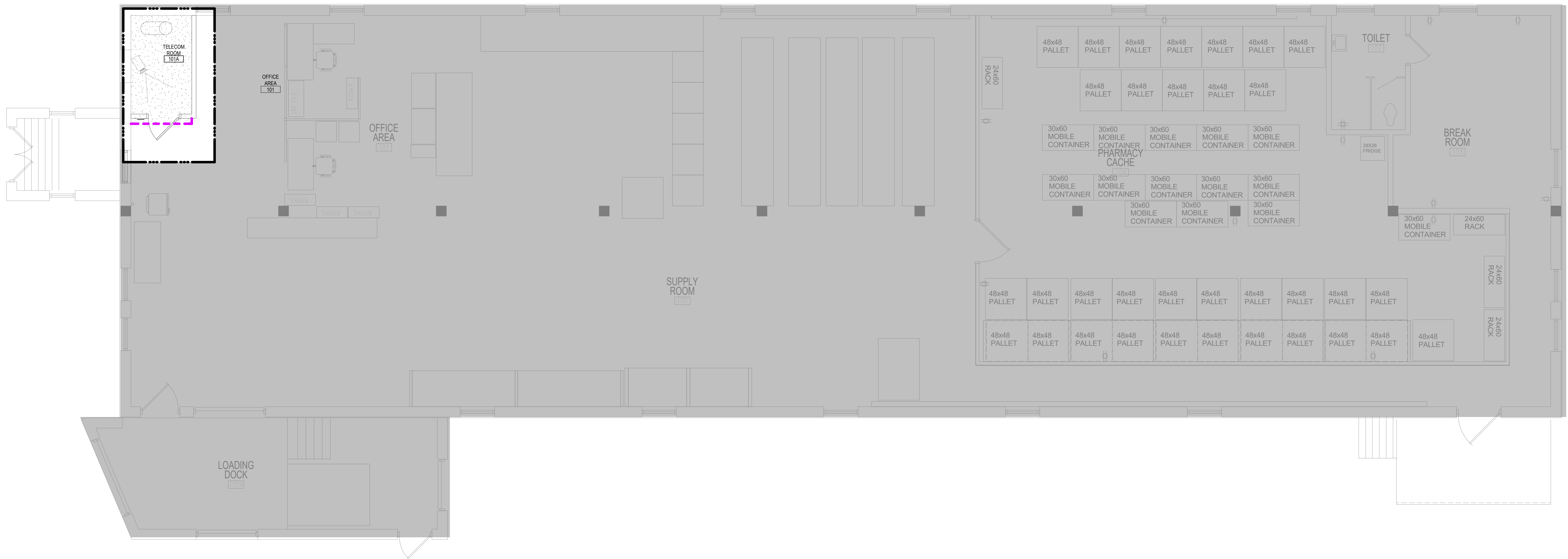
**BUILDING 14 COVER SHEET & SHEET INDEX**

PROJECT FILE: EHRM INFRASTRUCTURE UPGRADES  
DATE: 03/30/2022  
PLOT SCALE: 1/8"=1'-0"  
PROJECT NO: 656-21-235  
BUILDING NO: 14  
CHECKED BY: EM  
DRAWN BY: EM  
SHEET NO: 14-G1000  
LOCATION: VA MEDICAL CENTER ST. CLOUD, MN 56303  
FULLY SPRINKLERED  
COVER OF

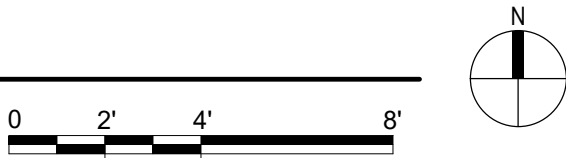
**U.S. Department of Veterans Affairs**  
Veterans Health Administration  
St. Cloud VA Health Care System

ROOM ICRA SCHEDULE						
LEVEL	ROOM NO.	ROOM NAME	CAI BLDG NAME / FUNCTION	CONSTRUCTION PROJECT ACTIVITY	INFECTION CONTROL RISK GROUP	CONTROL PROCEDURE CLASS
FIRST FLOOR	101A	TELECOM ROOM	WAREHOUSE	TYPE C	GROUP 1	CLASS II
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  
1/4" = 1'-0"



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No.	REVISION	DATE

**CONSULTANT**



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Anderson Engineering of Minnesota, LLC | Proj # 16305

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

**DRAWING TITLE**

FIRST FLOOR INFECTION CONTROL & PHASING PLAN

**PROJECT FILE**

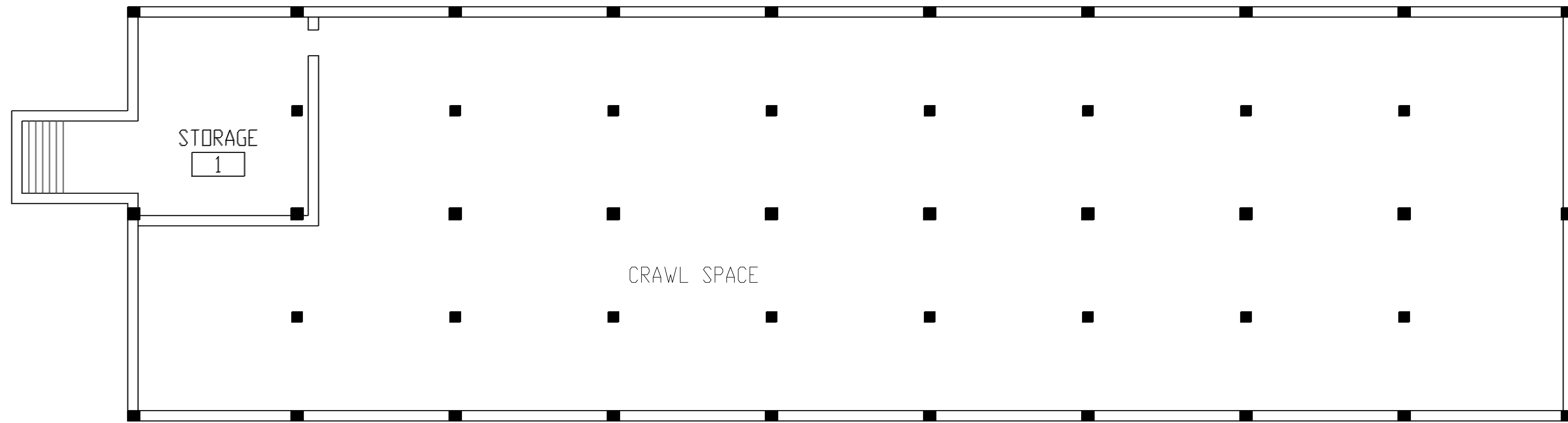
EHRM INFRASTRUCTURE UPGRADES

DATE: 03/30/2022  
PLOT SCALE: 1/4" = 1'-0"  
PROJECT NO: 656-21-235  
DRAWING NO: 14-G111

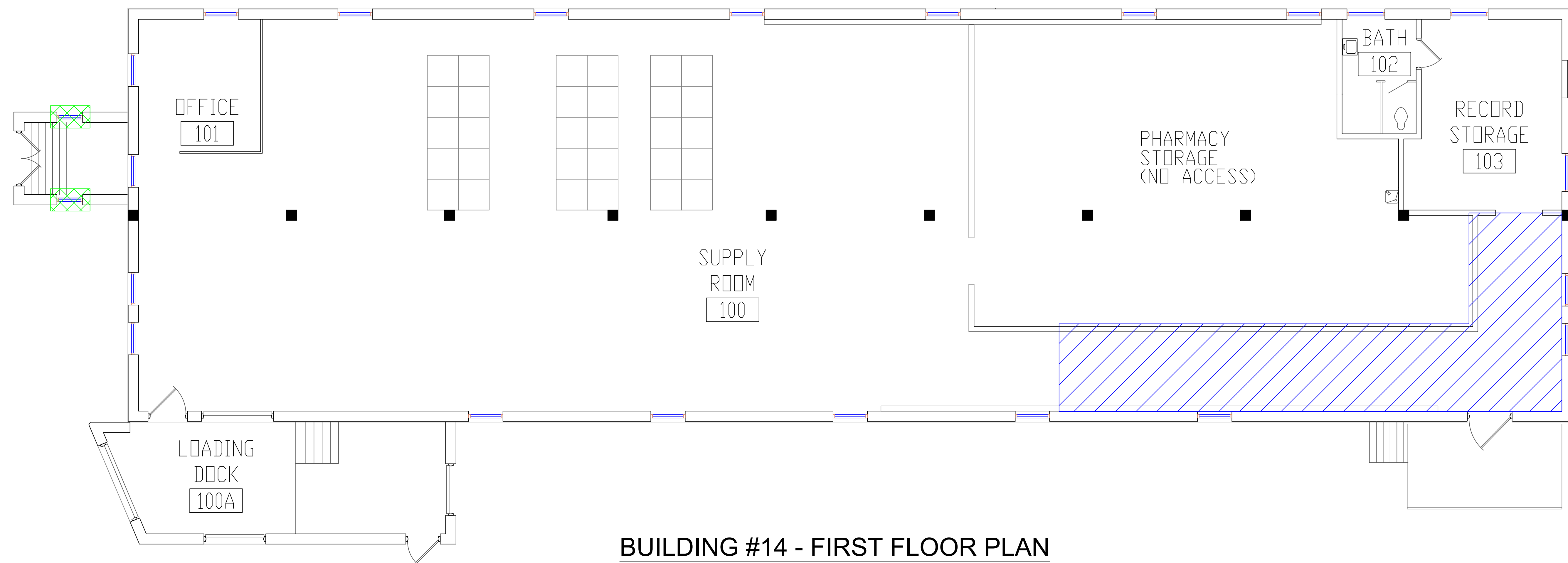
BUILDING NO: 14  
CHECKED BY: EM  
DRAWN BY: BMW  
LOCATION: VA MEDICAL CENTER ST. CLOUD, MN 56303  
FULLY SPRINKLERED



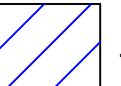


**U.S. Department of Veterans Affairs**  
Veterans Health Administration  
St. Cloud VA Health Care System



**BUILDING #14 - BASEMENT FLOOR PLAN**

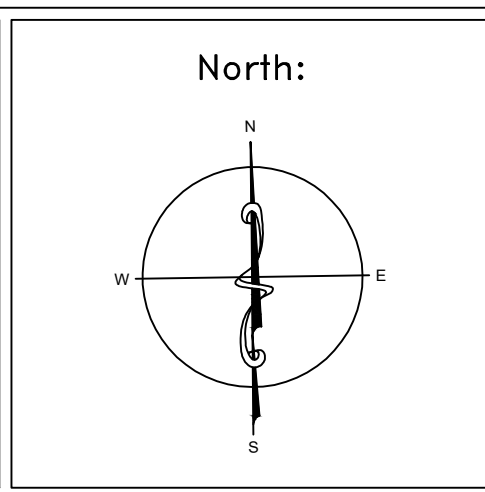


**BUILDING #14 - FIRST FLOOR PLAN**

- LEGEND**
-  -ASBESTOS-CONTAINING FLOOR TILE AND MASTIC
  -  -ASBESTOS-CONTAINING WINDOW GLAZING

Revisions	Dates

ENVIRONMENTAL CONSULTANT:  
**CASTLE HILL ASSOCIATES, LLC.**  
 218-A MECHANIC STREET,  
 WATERVILLE, OHIO 43566  
 Tel: (567) 952-0212

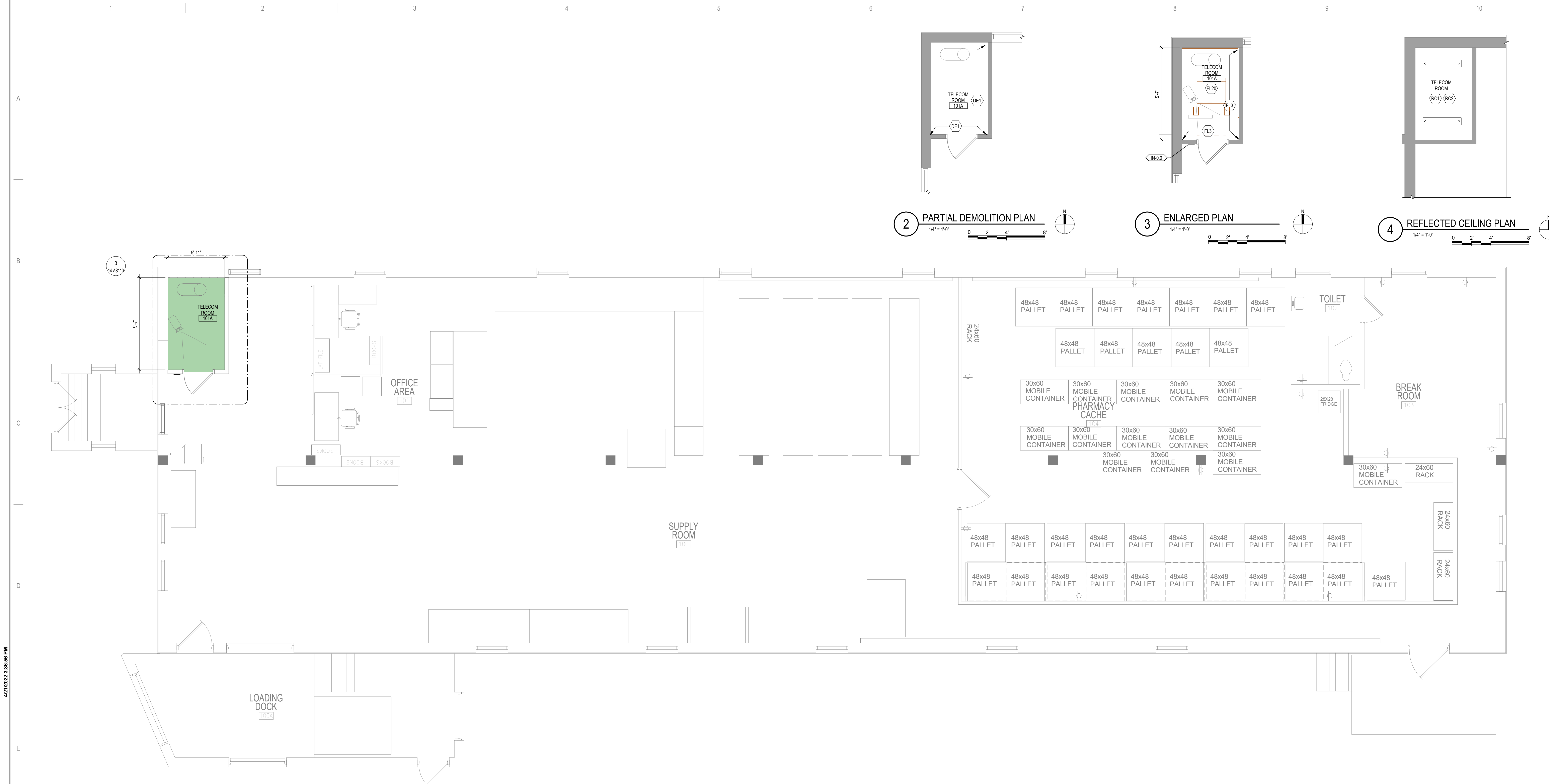


Drawing Title	<b>ARCHITECTURAL PLAN BUILDING 14 Scale: 1/4" = 1'-0"</b>
Approved : Division Chief	
Approved : Service Director	

Project Title	<b>FACILITY ASBESTOS RE-SURVEY VETERANS ADMINISTRATION MEDICAL CENTER ST. CLOUD, MINNESOTA</b>		
Building Number	014	Checked	BLB
Location	ST. CLOUD, MINNESOTA		

Date	<b>NOVEMBER 2019</b>
Project No.	<b>36C26319P1003</b>
Drawing No.	<b>1A</b>
Sheet	33 of 71





**2 PARTIAL DEMOLITION PLAN**  
1/4" = 1'-0"

**3 ENLARGED PLAN**  
1/4" = 1'-0"

**4 REFLECTED CEILING PLAN**  
1/4" = 1'-0"

**1 FIRST FLOOR - OVERALL PLAN**  
1/4" = 1'-0"

**DEMOLITION PLAN KEYED NOTES**

DE1 PREPARE WALL FOR PLYWOOD BACKBOARD INSTALLATION AND EHRM REQUIREMENTS. SEE FLOOR PLAN AND TELECOM DRAWINGS

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

**FLOOR PLAN KEYED NOTES**

FL1 ALL FOUR PERIMETER WALL PARTITIONS APPLY 4" BY 8" AC GRADE 1/2" TRADE SIZE FIRE RATED PLYWOOD BACKBOARD FINISHED WITH HIGH-GLOSS WHITE PAINT OVER TWO COATS OF FIRE RESISTANT PAINT FOR SERVICE PROVIDER SECURITY (VIDEO) ETCETERA. DO NOT PAINT OVER FIRE RATING STAMP.

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.

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

**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 VA) WITH WALL MOUNT BRACKET AND CODE REQUIRED SIGNAGE SHALL BE PROVIDED BY THE CONTRACTOR WITHIN TELECOM ROOMS.

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No.	REVISION	DATE

**CONSULTANT**

**AST SES** SPECIALIZED ENGINEERING SOLUTIONS

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**ARCHITECT/ENGINEER OF RECORD**

**ANDERSON**

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**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 Olezak*

Typed or Printed Name: Tom Olezak

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

**DRAWING TITLE**

FIRST FLOOR PLANS

**PROJECT FILE**

EHRM INFRASTRUCTURE UPGRADES

DATE: 03/30/2022

PLOT SCALE: 656-21-235

BUILDING No: 14

CHECKED BY: EM

DRAWN BY: EM

DRAWING No: 14-AS110

LOCATION: VA MEDICAL CENTER ST. CLOUD, MN 56303

FULLY SPRINKLERED

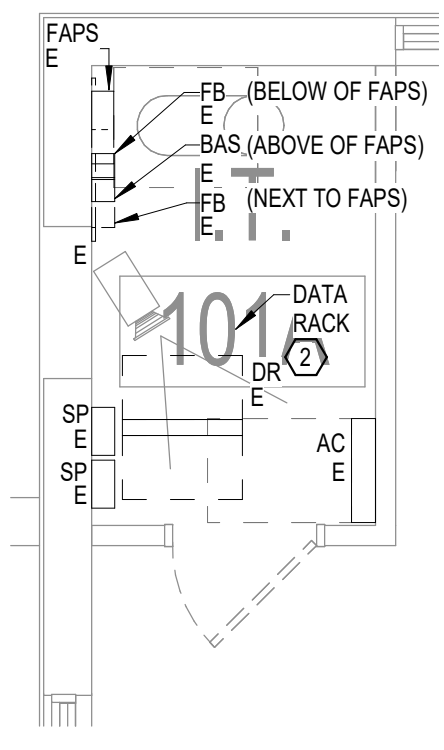
DWG. OF

**VA**

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

Veterans Health Administration

St. Cloud VA Health Care System



2 ENLARGED PLAN - TR 101A - TELECOM - DEMO  
1/4" = 1'-0"

**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 101A  
EXISTING CABLE COUNT  
DATA (CAT5): 31  
DATA (CAT5e): 0  
DATA (CAT6): 0  
DATA (CAT6): 0  
DATA (CAT6): 0  
CABLE RELOCATION COUNT  
DATA (CAT5): 0  
DATA (CAT5e): 0  
DATA (CAT6): 0  
DATA (CAT6): 0  
DATA (CAT6): 0  
EXISTING CABLE TO REMAIN  
DATA (CAT5): 31  
DATA (CAT5e): 0  
DATA (CAT6): 0  
DATA (CAT6): 0  
DATA (CAT6): 0  
FINAL CABLE COUNT  
DATA (CAT5): 31  
DATA (CAT5e): 0  
DATA (CAT6): 0  
DATA (CAT6): 0  
DATA (CAT6): 0

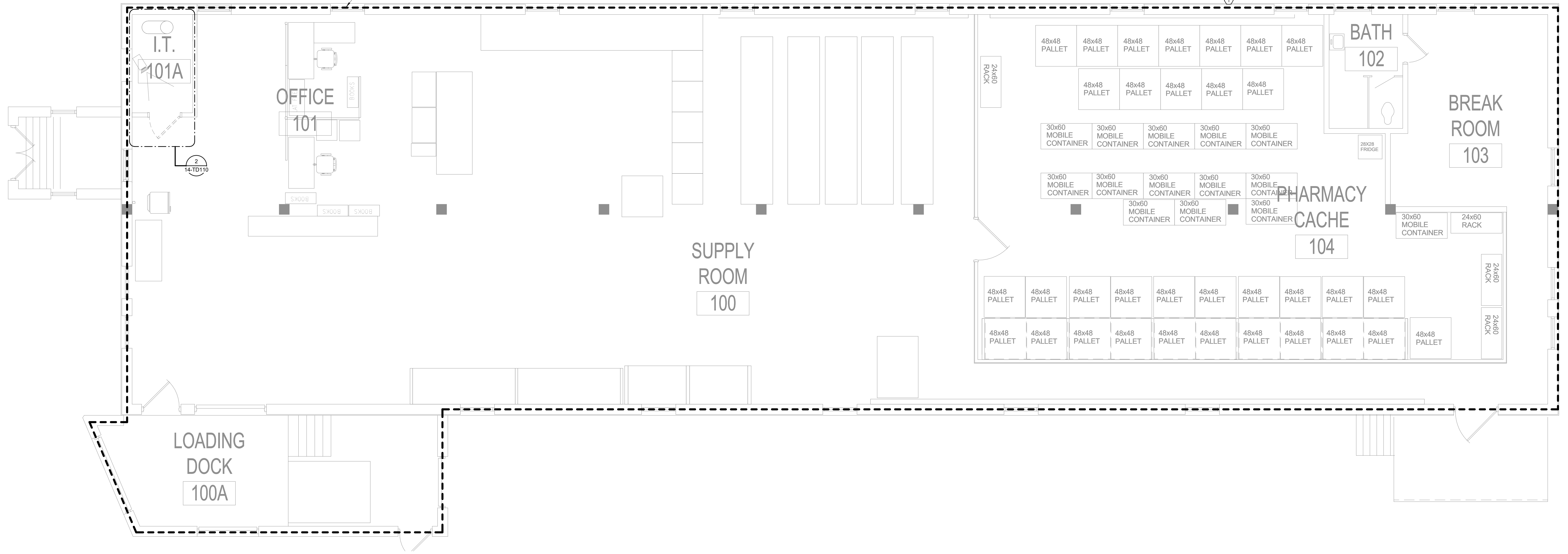
**GENERAL NOTES:**

A. REFER TO GENERAL DEMOLITION NOTES ON SHEET 1000 FOR ADDITIONAL DEMOLITION SCOPE.

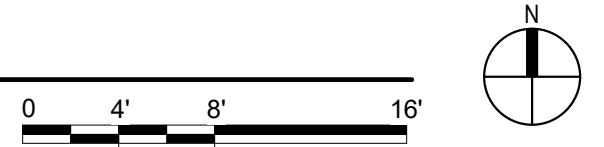
**SHEET NOTES:**

- 1. RETAIN DATA CABLE. EXISTING DATA CABLE THROUGHOUT THIS AREA IS SUFFICIENT TO REMAIN. NEW CABLING NOT REQUIRED. RETAIN EXISTING CABLING IN SERVICE.
- 2. 2 POST DATA RACK TO REMAIN.

—LIMITS OF DATA CABLING DEMOLITION



1 FIRST FLOOR PLAN - ELECTRICAL - DEMOLITION  
1/4" = 1'-0"



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No.	REVISION	DATE

**CONSULTANT**  
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Anderson Engineering of Minnesota, LLC | Proj # 16305

**STAMP**  
**Bicsi** REGISTERED COMMUNICATIONS DISTRIBUTION  
Nathan Timm  
BICS ID # 346555  
Expires 12-31-24  
Richard M. Timm

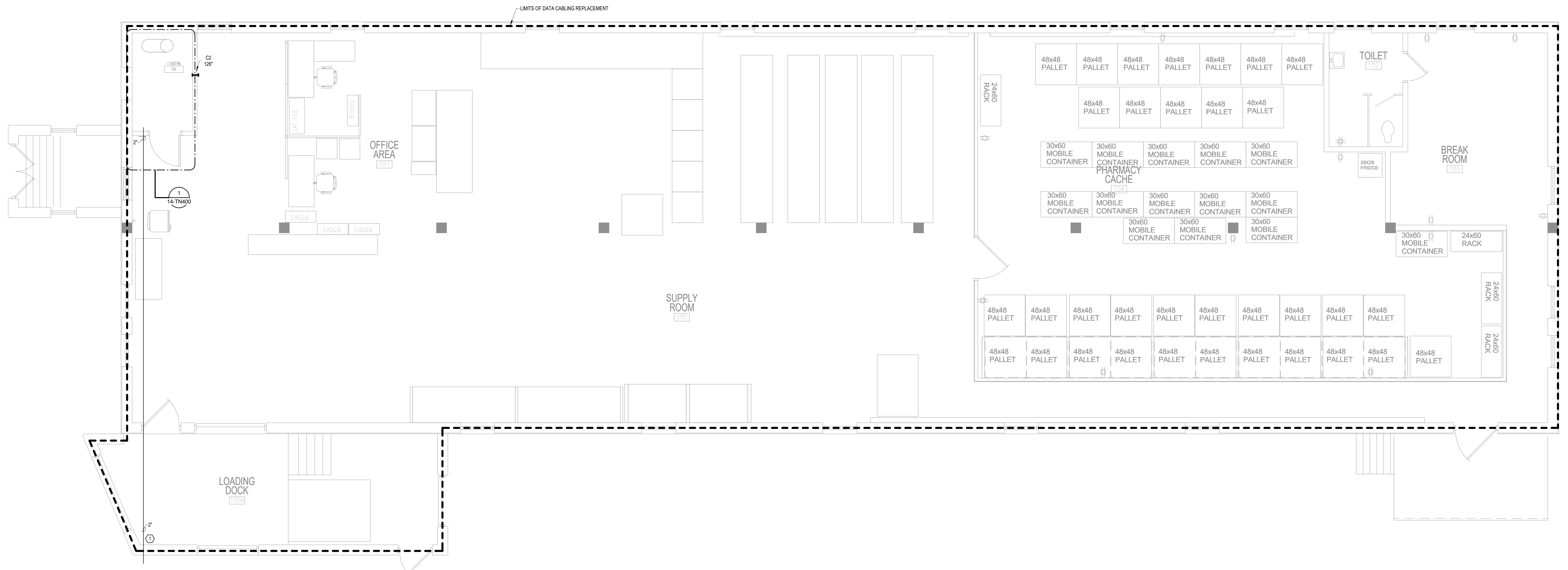
**DRAWING TITLE**  
FIRST FLOOR PLAN - TELECOM - DEMOLITION

**PROJECT FILE**  
EHRM INFRASTRUCTURE UPGRADES  
DATE: 03/30/2022  
PLOT SCALE:  
PROJECT NO: 656-21-235  
DRAWN BY: SSK  
CHECKED BY: KSB  
DATE: 14-TD110  
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. PROVIDE JUNCTION BOX TO CONNECT FIBER CONDUIT ENTRY TO EXTEND CONDUIT PATHWAY TO THE NEW TELECOM ROOM.



**1 FIRST FLOOR PLAN - TELECOMMUNICATIONS**  
 1/4" = 1'-0"

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No.	REVISION	DATE

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 Anderson Engineering of Minnesota, LLC | Proj # 16305

**STAMP**

**Bicsi**  
 Nathan Timm  
 BICS1 ID # 346555  
 Expires 12-31-24  
 Registered Communications Distributor  
 Nathan M. Timm

**DRAWING TITLE**

FIRST FLOOR PLAN - TELECOMMUNICATIONS

**PROJECT FILE**

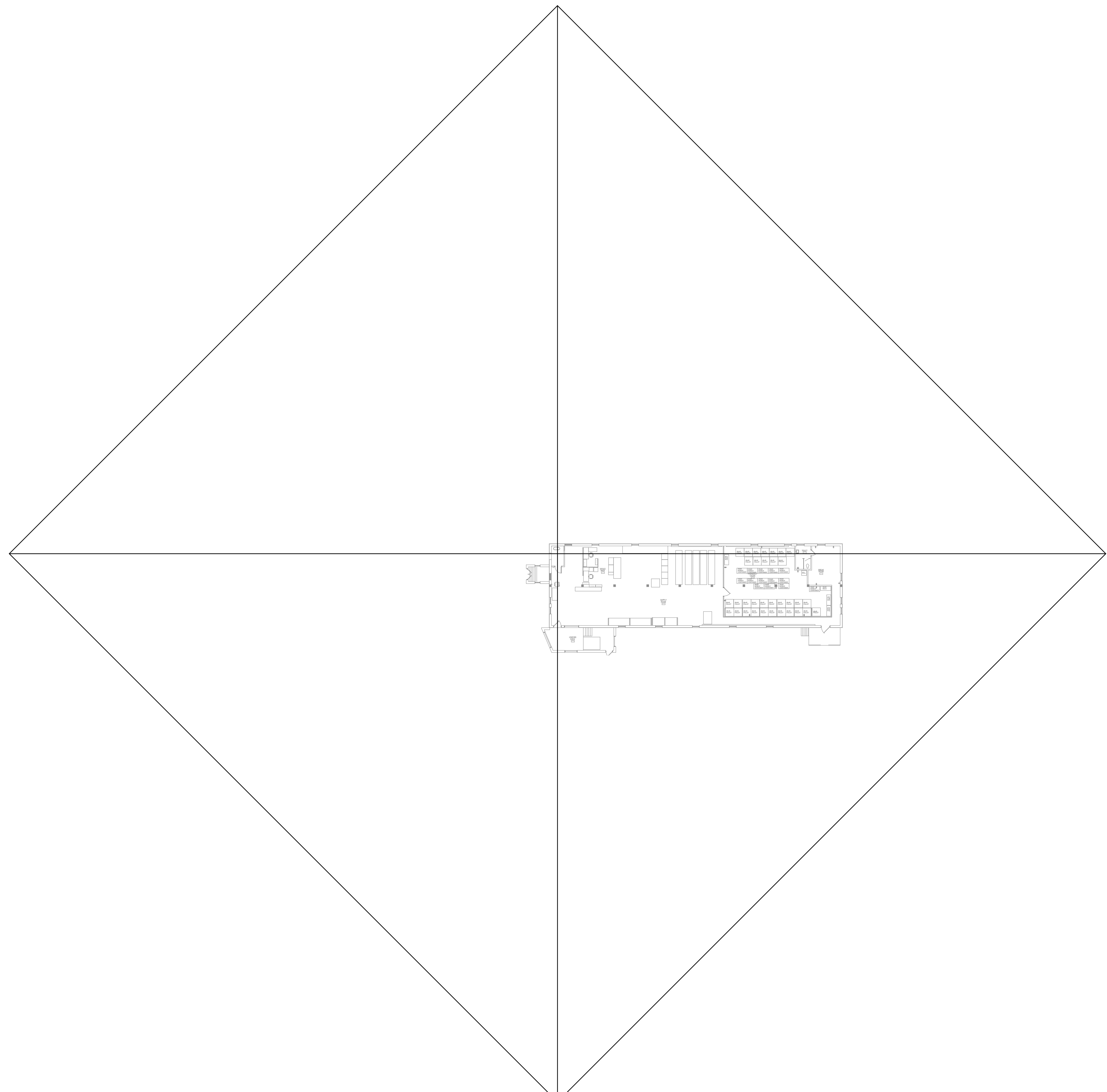
EHRM INFRASTRUCTURE UPGRADES

**DATE** 03/30/2022  
**PLOT SCALE**  
**PROJECT NO.** 656-21-235  
**DRAWING NO.** 14-TN110

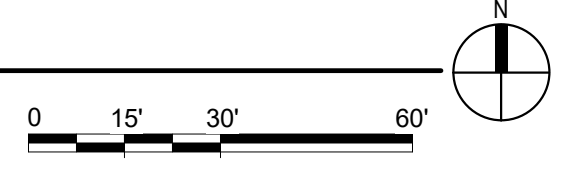
**BUILDING No.** 14  
**CHECKED BY** KSB  
**DRAWN BY** SSK  
**LOCATION** VA MEDICAL CENTER ST. CLOUD, MN 56303  
**FULLY SPRINKLERED**

**VA**

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



1 FIRST FLOOR PLAN - TELECOM - CABLE DISTANCE  
 1" = 30'-0"



BIM 360://2102.001 - VA St Cloud EHRM Infrastructure Upgrades/656-235-B14\_T\_R21.rvt

No.	REVISION	DATE

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**Bicsi**  
Nathan Timm  
Bicsi ID # 346555  
Expires 12-31-24

**DRAWING TITLE**

FIRST FLOOR PLAN - TELECOM - CABLE DISTANCE

**PROJECT FILE**

EHRM INFRASTRUCTURE UPGRADES

**DATE**  
03/30/2022

**PLOT SCALE**

**PROJECT NO.**  
656-21-235

**DRAWING NO.**  
14-TN210

**BUILDING No.**  
14

**CHECKED BY**  
KSB

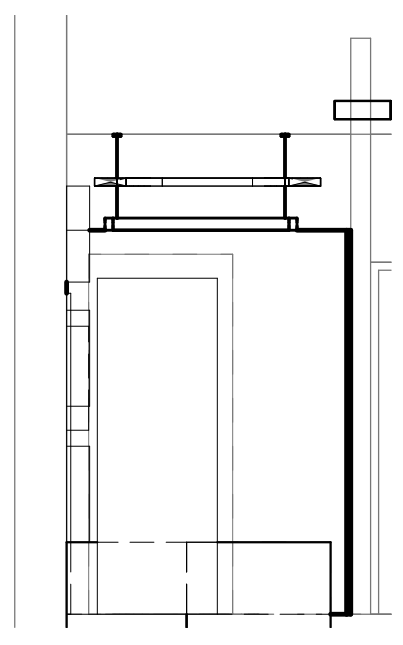
**DRAWN BY**  
SSK

**LOCATION**  
VA MEDICAL CENTER  
ST. CLOUD, MN 56303

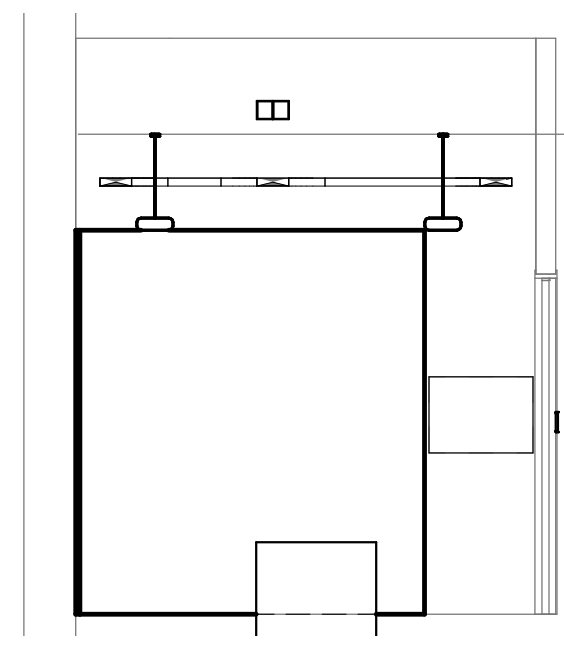
**FULLY SPRINKLERED**

**DWG. OF**

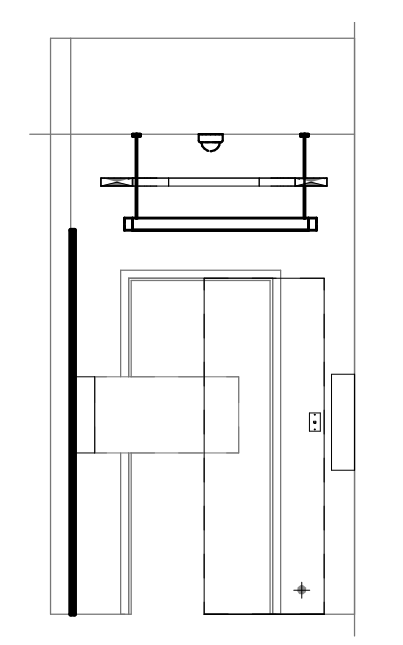
**U.S. Department of Veterans Affairs**  
Veterans Health Administration  
St. Cloud VA Health Care System



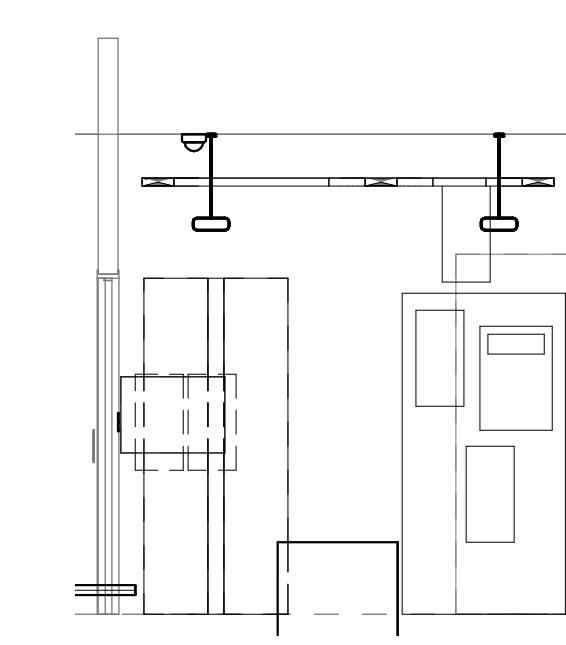
2 1 - a  
1/4" = 1'-0"



3 1 - b  
1/4" = 1'-0"



4 1 - c  
1/4" = 1'-0"



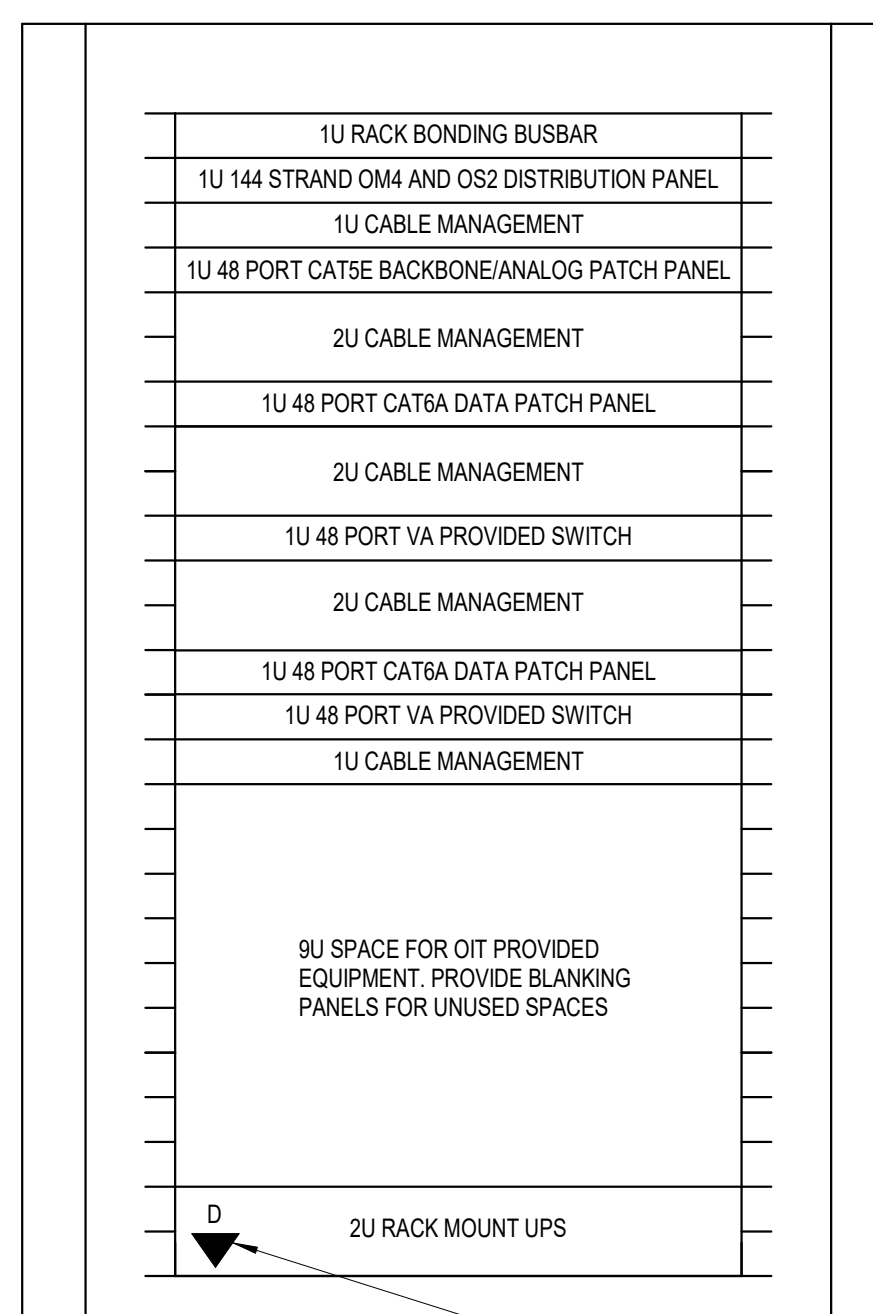
5 1 - d  
1/4" = 1'-0"

**GENERAL NOTES:**  
A. REFER TO GENERAL NOTES ON SHEET T100 FOR ADDITIONAL SCOPE.

**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 101A

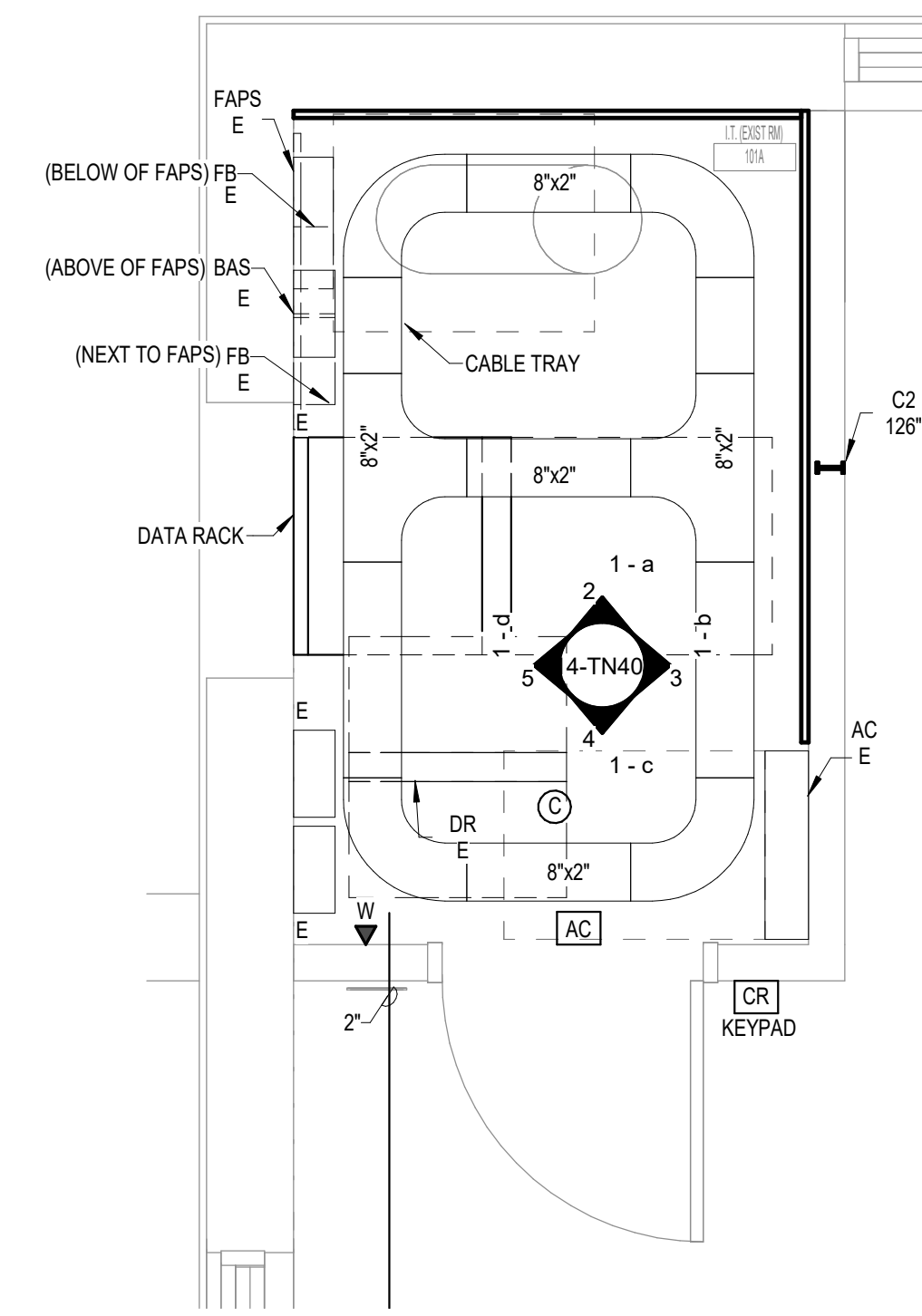
EXISTING CABLE COUNT
DATA (CAT5): 31
DATA (CAT5e): 0
DATA (CAT6): 0
DATA (CAT6e): 0
CABLE RELOCATION COUNT
DATA (CAT5): 0
DATA (CAT5e): 0
DATA (CAT6): 0
DATA (CAT6e): 0
EXISTING CABLE TO REMAIN
DATA (CAT5): 31
DATA (CAT5e): 0
DATA (CAT6): 0
DATA (CAT6e): 0
FINAL CABLE COUNT
DATA (CAT5): 0
DATA (CAT5e): 31
DATA (CAT6e): 0



PROVIDE DATA CABLE TO RACK MOUNTED UPS FOR CONNECTION TO MONITORING SYSTEM

- 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.

6 COMMUNICATIONS - TYPICAL WALL CABINET (TE) ELEVATION - TR 101A  
NOT TO SCALE



1 ENLARGED PLAN - TR 101A - TELECOM - CABLE TRAY AND DATA  
1/2" = 1'-0"

BIM 360://21102.001 - VA.St.Cloud.EHRM.Infrastructure.Upgrade.656-235-B14.T\_R21.rvt 5/11/2022 3:57:12 PM

No.	REVISION	DATE

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Anderson Engineering of Minnesota, LLC | Proj # 16305

**STAMP**

Nathan Timm  
BICSI ID # 346555  
Expires 12-31-24  
Nathan M. Timm

**DRAWING TITLE**

ENLARGED PLANS - TELECOMMUNICATIONS

**PROJECT FILE**

EHRM INFRASTRUCTURE UPGRADES

DATE: 03/30/2022  
PLOT SCALE:  
PROJECT NO: 656-21-235  
DRAWN BY: SSK  
CHECKED BY: KSB  
BUILDING NO: 14  
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



1 2 3 4 5 6 7 8 9 10

A

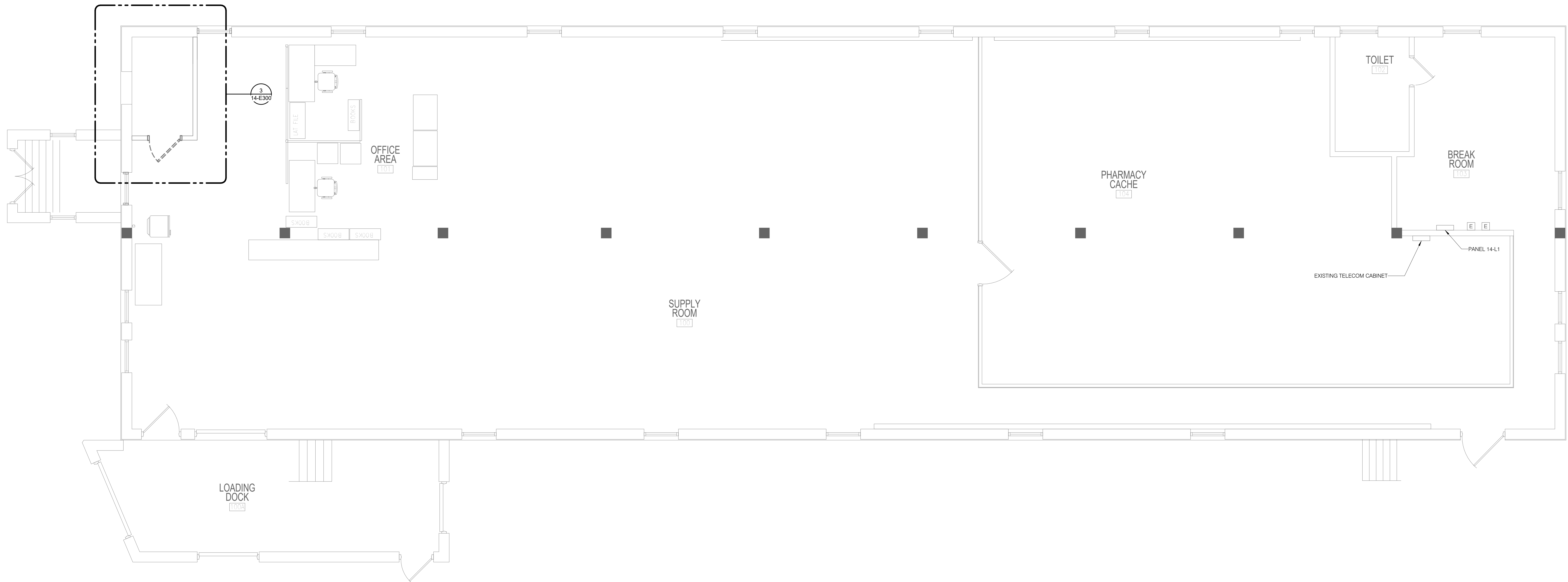
B

C

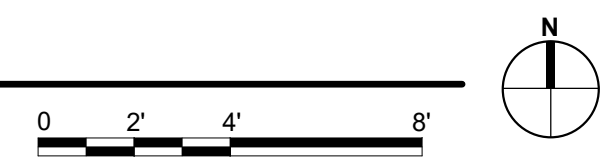
D

E

F



**1 FIRST FLOOR DEMOLITION - ELECTRICAL**  
 1/4" = 1'-0"



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No.	REVISION	DATE
1	100% CD	03/30

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Anderson Engineering of Minnesota, LLC | Proj # 16305

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Professional Engineer Seal for G. J. L. (G.J.L.)  
 LICENSED PROFESSIONAL ENGINEER  
 STATE OF MINNESOTA  
 05-06-2022

**DRAWING TITLE**

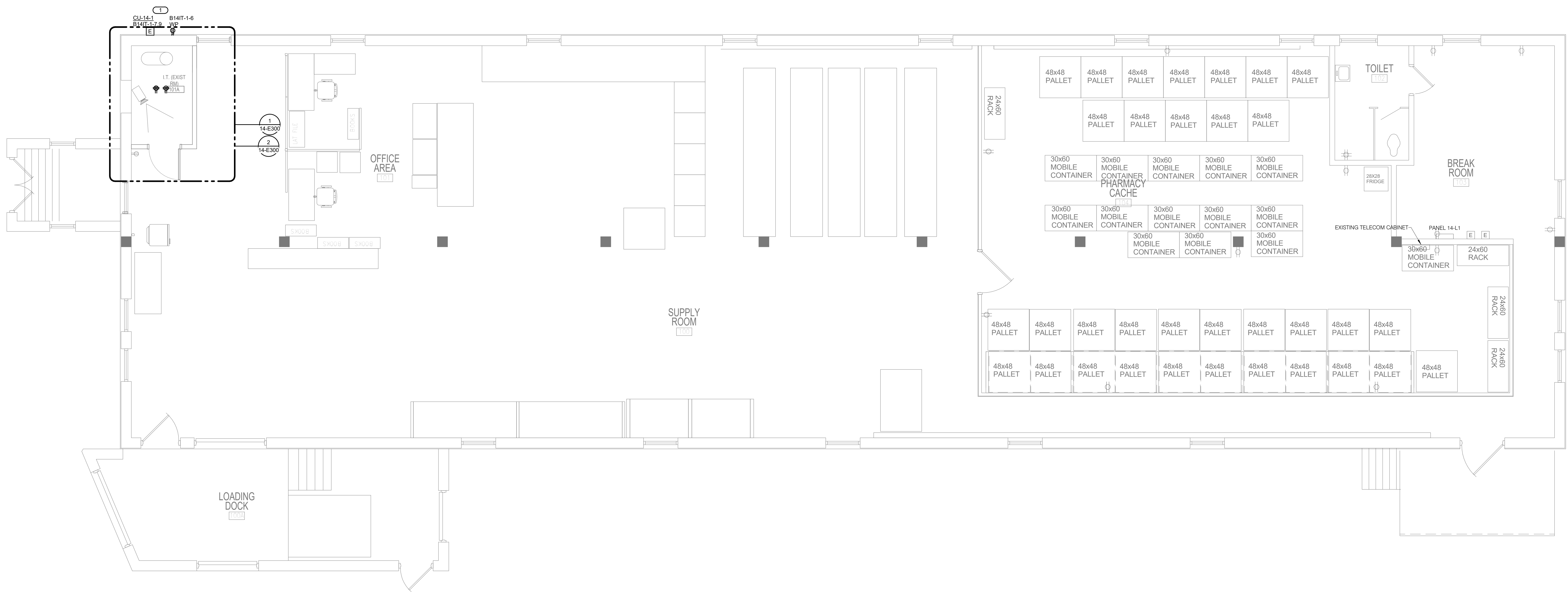
FIRST FLOOR DEMOLITION - ELECTRICAL

<b>PROJECT FILE</b>	<b>DATE</b>
EHRM INFRASTRUCTURE UPGRADES	03/30/2022
<b>PLOT SCALE</b>	
PROJECT NO.	DRAWING NO.
656-21-235	14-E101
<b>BUILDING No.</b>	<b>CHECKED BY</b>
14	TBD
<b>DRAWN</b>	<b>DATE</b>
G.J.L.	
<b>LOCATION</b>	<b>FULLY SPRINKLERED</b>
VA MEDICAL CENTER ST. CLOUD, MN 56303	DWG. OF

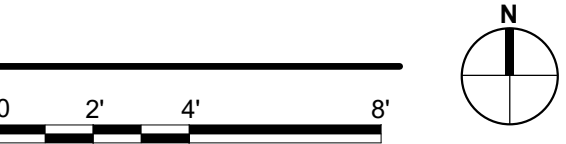
**VA**

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

**KEYNOTES:** #  
1. PROVIDE ELECTRICAL CONNECTION TO CONDENSING UNIT, AS REQUIRED. COORDINATE FINAL LOCATION AND CONNECTION REQUIREMENTS WITH MECHANICAL.



**1 FIRST FLOOR - ELECTRICAL**  
1/4" = 1'-0"



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REGISTERED PROFESSIONAL ENGINEER  
53096  
06-06-2022

**DRAWING TITLE**  
FIRST FLOOR - ELECTRICAL

**PROJECT FILE**  
EHRM INFRASTRUCTURE UPGRADES

**DATE**  
03/30/2022

**PLLOT SCALE**  
AS SHOWN

**PROJECT NO.**  
656-21-235

**BUILDING No.**  
14

**CHECKED BY**  
TBD

**DRAWN BY**  
GJL

**DRAWING NO.**  
14-E201

**LOCATION**  
VA MEDICAL CENTER ST. CLOUD, MN 56303

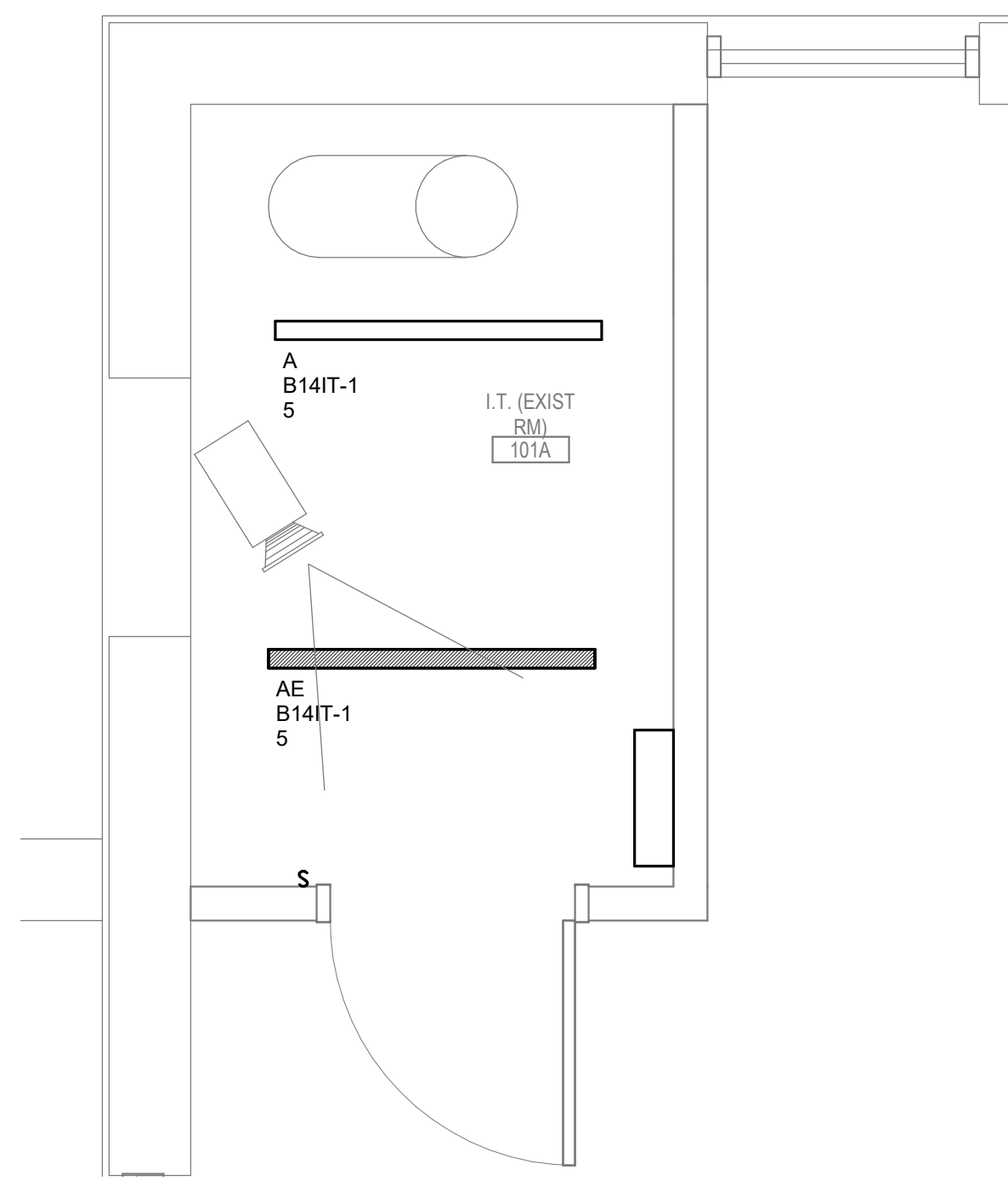
**FULLY SPRINKLERED**

**DWG. OF**

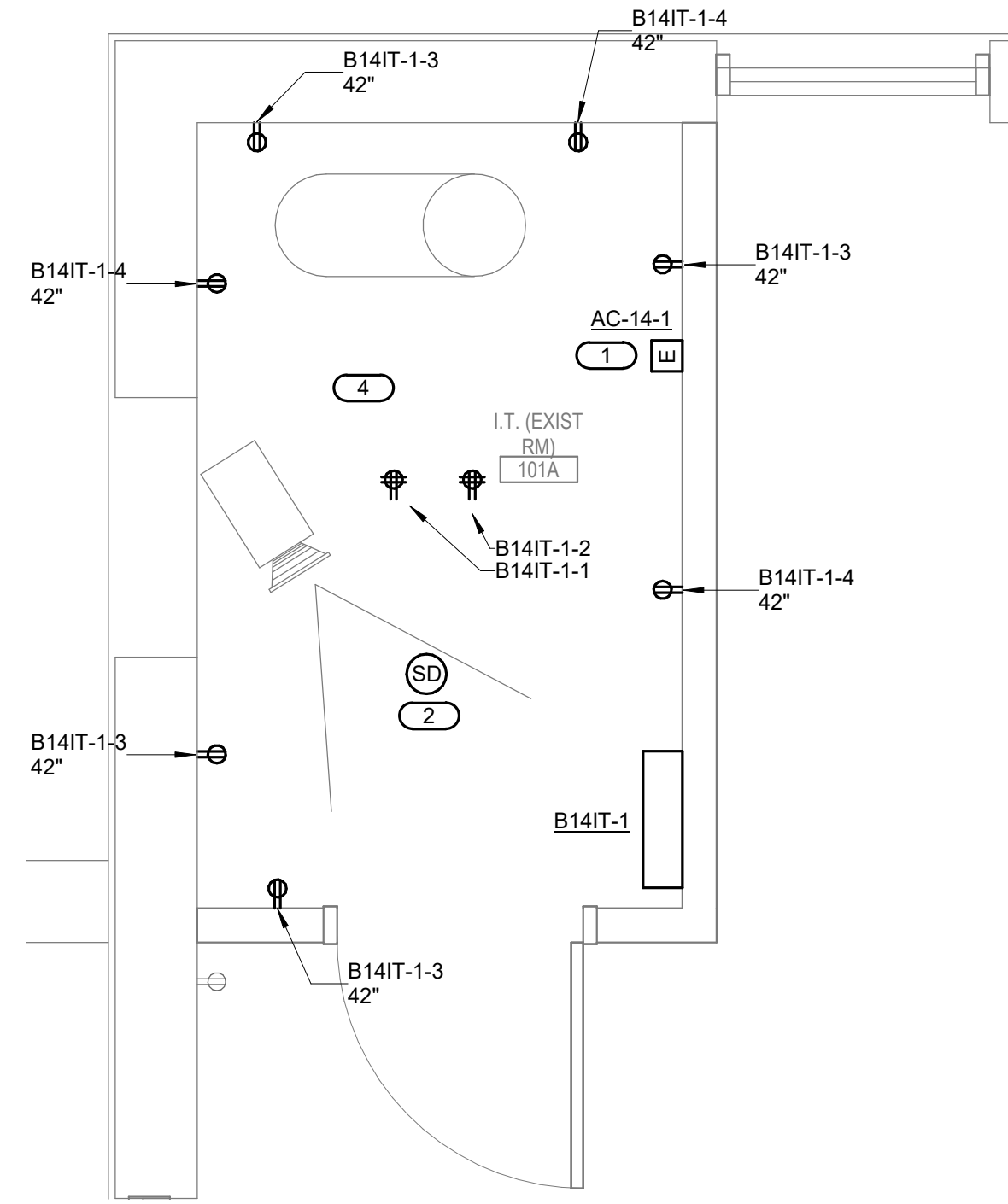
**VA**

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

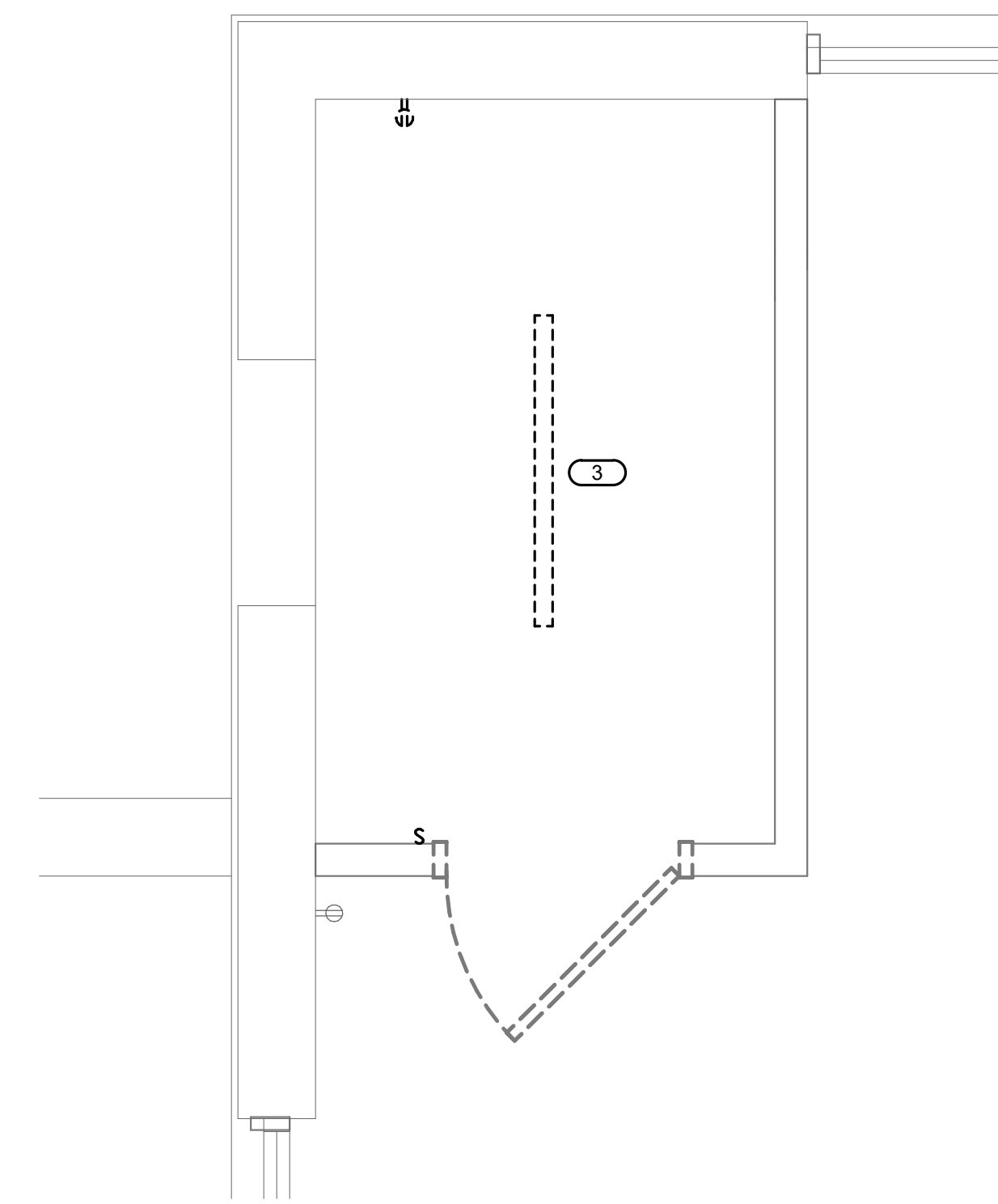
- SHEET NOTES:**
- REFER TO TECHNOLOGY PLANS FOR IT ROOM LAYOUT AND RACK LAYOUT DETAILS.
  - REFER TO SHEET 0-GE-400 DETAIL FOR LAYOUT & ONE-LINE OF RACK.
- KEYNOTES: (#)**
- INDOOR UNIT TO BE POWERED BY OUTDOOR UNIT. COORDINATE EXACT LOCATION WITH M.C.
  - CONNECT SMOKE DETECTOR TO NEAREST EXISTING SLC.
  - DISCONNECT AND REMOVE EXISTING LIGHTS AND RECEPTACLES IN ROOM. MAINTAIN CIRCUIT CONTINUITY TO ADJOINING ROOMS.
  - COORDINATE FINAL LOCATION OF QUADPLEX RECEPTACLE WITH TELECOM CONTRACTOR.



**1 FIRST FLOOR - LIGHTING - TR 101A**  
1/2" = 1'-0"



**2 FIRST FLOOR - POWER & FIRE ALARM - TR 101A**  
1/2" = 1'-0"



**3 FIRST FLOOR DEMOLITION - ELECTRICAL - TR-101A**  
1/2" = 1'-0"

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**DRAWING TITLE**

**ELECTRICAL ENLARGED PLANS**

<b>PROJECT TITLE</b>	<b>DATE</b>
EHRM INFRASTRUCTURE UPGRADES	03/30/2022
<b>PLOT SCALE</b>	
<b>PROJECT NO.</b>	<b>DRAWING NO.</b>
656-21-235	14-E300
<b>BUILDING No.</b>	<b>CHECKED BY</b>
14	TBD
<b>DRAWN BY</b>	<b>DATE</b>
GJL	
<b>LOCATION</b>	<b>FULLY SPRINKLERED</b>
VA MEDICAL CENTER ST. CLOUD, MN 56303	

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

Veterans Health Administration  
St. Cloud VA Health Care System

- KEYNOTES:**
1. PROVIDE NEW 100A/3P CIRCUIT BREAKER IN EXISTING SWITCHBOARD TO MATCH EXISTING TYPE AND AIC RATING.
  2. PROVIDE 100A/3P BREAKER IN NEMA 1 ENCLOSURE NEAR PANEL B14L1.
  3. PROVIDE WP-LINKSEAL AT CONDUIT ENTRANCE INTO BUILDING.

**PANEL B14IT-1**

MOUNTING: SURFACE  
ENCLOSURE: NEMA PB 1  
FED FROM: 0 A/0P @  
LOCATION: I.T. (EXIST RM) 101A

SOLID NEUTRAL  
GROUND BUS

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

NOTES:

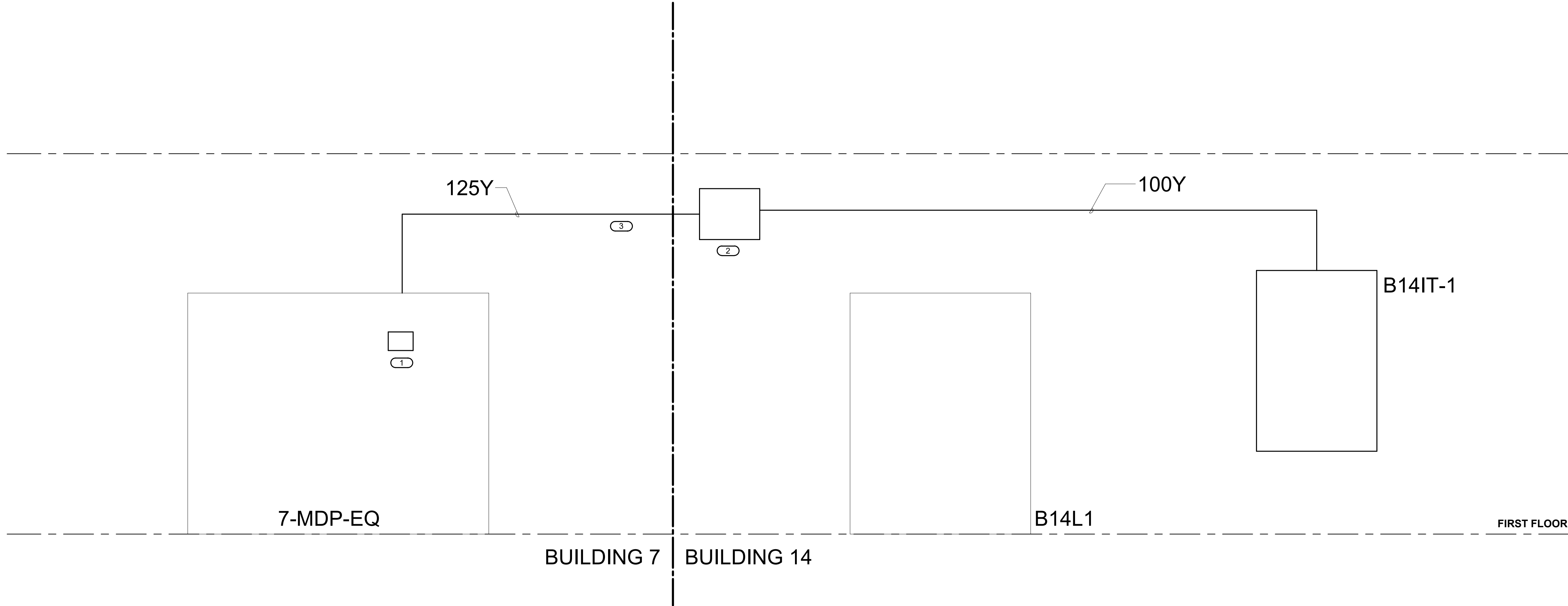
KEY	CKT NO.	LOAD DESCRIPTION	OCPD AMPS	WIRE SIZE			A	B	C	WIRE SIZE			OCPD AMPS	LOAD DESCRIPTION	KEY	
				P	H	N				G	G	N				H
	1	TELECOM RACK	20 A	1			0.18	0.18					1	20 A	TELECOM RACK	2
	3	TELECOM ROOM REC.	20 A	1				0.72	0.54				1	20 A	TELECOM ROOM REC.	4
	5	TELECOM LIGHTING	20 A	1					0.07	0.18			1	20 A	WIP GFI REC.	6
	7	CU-14-1	20 A	2			1	0					1	20 A	SPARE	8
	9	SPARE	20 A	1				1	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
			<b>Total Load:</b>			1.36 kVA	2.26 kVA	0.25 kVA								
			<b>Total Amps:</b>			12.76	20.26	2.06								

**LOAD SUMMARY**

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	TOTALS*
Lighting	0.067 kVA	100.00%	0.067 kVA	
Power	2 kVA	100.00%	2 kVA	<b>TOTAL CONNECTED LOAD:</b> 3.87 kVA
Receptacles	1.8 kVA	100.00%	1.8 kVA	<b>TOTAL ESTIMATED DEMAND LOAD:</b> 3.867 kVA
				<b>TOTAL CONNECTED AMPS:</b> 10.73 A
				<b>TOTAL ESTIMATED DEMAND AMPS:</b> 10.7 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:



**1 PARTIAL POWER RISER**  
12" = 1'-0"

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REGISTERED PROFESSIONAL ENGINEER  
NO. 5309  
06-06-2022

**DRAWING TITLE**

ELECTRICAL ONE-LINE DIAGRAMS & SCHEDULES

**PROJECT FILE**

EHRM INFRASTRUCTURE UPGRADES

DATE: 03/30/2022  
PLOT SCALE:  
PROJECT NO: 656-21-235  
DRAWING NO: 14-E400

BUILDING NO: 14  
CHECKED BY: TBD  
DRAWN BY: G.J.L.  
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

3/28/2022 1:02:42 PM

### PANEL B14IT-1

**MOUNTING:** SURFACE  
**ENCLOSURE:** NEMA PB 1  
**FED FROM:** -  
**LOCATION:** I.T. (EXIST RM) 101A

**SOLID NEUTRAL  
GROUND BUS**

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

**NOTES:**

K E Y	C K T N O.	LOAD DESCRIPTION	O C P D A M P S	P	WIRE SIZE			A	B	C	WIRE SIZE			O C P D A M P S	LOAD DESCRIPTION	K E Y
					P	H	N				G	P	H			
	1	L21-20R	20 A	3			1.67	1.67					3	20 A	L21-20R	2
--	3	--	--	--	--	--			1.67	1.67			--	--	--	4
--	5	--	--	--	--	--				1.67	1.67		--	--	--	6
	7	TELECOM ROOM REC.	20 A	1			0.72	0.54					1	20 A	TELECOM ROOM REC.	8
	9	TELECOM LIGHTING	20 A	1					0.07	0.18			1	20 A	WP GFI REC.	10
	11	CU-14-1	20 A	2						1	0		--	20 A	SPARE	12
--	13	--	--	--	--	--					1	0	--	20 A	SPARE	14
--	15	SPARE	20 A	1	--	--			0	0			--	20 A	SPARE	16
--	17	SPARE	20 A	1	--	--				0	0		--	20 A	SPARE	18
--	19	SPARE	20 A	1	--	--	0	0					--	20 A	SPARE	20
--	21	SPARE	20 A	1	--	--			0	0			--	20 A	SPARE	22
--	23	SPARE	20 A	1	--	--				0	0		--	20 A	SPARE	24
--	25	SPARE	20 A	1	--	--	0	0					--	20 A	SPARE	26
--	27	SPARE	20 A	1	--	--			0	0			--	20 A	SPARE	28
--	29	SPARE	20 A	1	--	--				0	0		--	20 A	SPARE	30
							<b>Total Load:</b>	5.59 kVA	3.58 kVA	4.33 kVA						
							<b>Total Amps:</b>	47.58	29.83	37.08						

**LOAD SUMMARY**

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	TOTALS*
Lighting	0.067 kVA	100.00%	0.067 kVA	<b>TOTAL CONNECTED LOAD:</b> 13.51 kVA
Power	12 kVA	100.00%	12 kVA	
Receptacles	1.44 kVA	100.00%	1.44 kVA	
				<b>TOTAL ESTIMATED DEMAND LOAD:</b> 13.507 kVA
				<b>TOTAL CONNECTED AMPS:</b> 37.49 A
				<b>TOTAL ESTIMATED DEMAND AMPS:</b> 37.5 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:**

100% CD	03/30
REVISION	DATE

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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 in the State of Minnesota.

Name: *[Signature]*  
Date: 03/30/2022  
License Number: 03095

**DRAWING TITLE**

### ELECTRICAL SCHEDULES

PROJECT TITLE	DATE
EHRM INFRASTRUCTURE UPGRADES	03/30/2022
PLOT SCALE	
PROJECT NO.	DRAWING NO.
656-21-235	14-E500
BUILDING No.	CHECKED BY
14	TBD
DRAWN	DATE
GJL	14-E500
LOCATION	FULLY SPRINKLERED
VA MEDICAL CENTER ST. CLOUD, MN 56303	DWG. OF

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

Veterans Health Administration

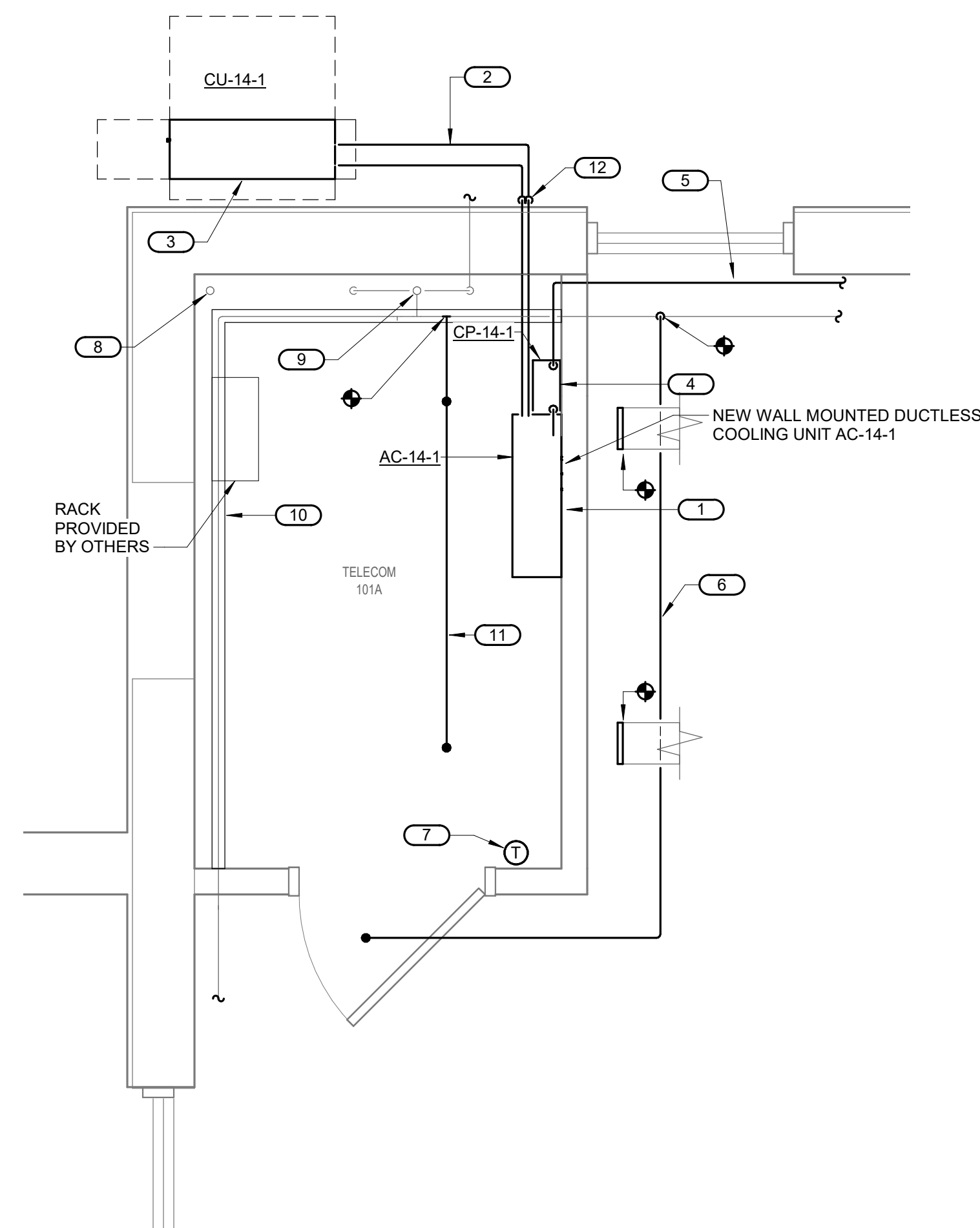
St. Cloud VA Health Care System



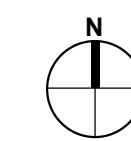
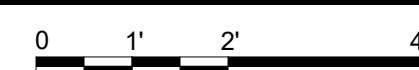
**FIELD VERIFICATION NOTES**

1. 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:
  - A. EXACT PLACEMENT, SIZE, CAPACITY, MANUFACTURER, AND CONDITION OF ALL EXISTING HVAC EQUIPMENT WITHIN SCOPE OF WORK, WHETHER EXPLICITLY SHOWN OR NOT.
  - B. SIZE AND LOCATION OF ALL EXISTING DUCTWORK.
  - C. SIZE AND LOCATION OF ALL EXISTING GRILLES, REGISTERS AND DIFFUSERS.
  - D. SIZE AND LOCATION OF ALL EXISTING THERMOSTATIC CONTROL DEVICES.
  - E. SIZE AND LOCATION OF ALL EXISTING PLUMBING AND HYDRONIC PIPING
2. 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.
3. NO ALLOWANCES WILL BE MADE AFTER THE PROJECT HAS BEEN AWARDED FOR FAILURE TO VERIFY EXISTING CONDITIONS.
4. ANY DISCREPANCIES WHICH MAY AFFECT THE CONTRACTORS BID SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER AND ARCHITECT FOR DIRECTION.

- KEYNOTES 1/14-M201:**
1. PROVIDE NEW WALL MOUNTED SPLIT SYSTEM AC UNIT.
  2. ROUTE NEW REFRIGERANT PIPING TO NEW AIR-COOLED CONDENSING UNIT ON GRADE. REFER TO REFRIGERANT PIPING DETAIL 1/0-GM400 AND PAD MOUNTING DETAIL 3/0-GM401
  3. PROVIDE NEW AIR COOLED CONDENSING UNIT ON GRADE. PROVIDE CONCRETE PAD.
  4. PROVIDE NEW CONDENSATE PUMP.
  5. ROUTE NEW 1" PUMPED CONDENSATE PIPE TO DRAIN IN ROOM 102. APPROXIMATELY 80 FEET EAST. FIELD COORDINATE FINAL RUTING.
  6. REROUTE EXISTING FIRE SPRINKLER LINE AND PROVIDE NEW SPRINKLER HEAD.
  7. PROVIDE NEW THERMOSTAT.
  8. EXISTING STORM DRAIN RISER TO REMAIN.
  9. EXISTING FIRE PROTECTION SPRINKLER SERVICE RISER TO REMAIN.
  10. EXISTING DRIP PAN TO REMAIN.
  11. REROUTE FIRE SPRINKLER BRANCH LINE AS NEEDED TO ACCOMMODATE NEW RACK LOCATION.
  12. REFERE TO 4/0-GM401 FOR WALL PENETRATION SEALING DETAIL.



**1 FIRST FLOOR PLAN - MECHANICAL - TELECOM 101A**  
 1/2" = 1'-0"



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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-07-11196-2017

**DRAWING TITLE**  
FIRST FLOOR PLAN REMODEL - MECHANICAL

**PROJECT FILE**  
EHRM INFRASTRUCTURE UPGRADES

**DATE**  
03/30/2022

**PLOT SCALE**  
656-21-235

**BUILDING No**  
14

**CHECKED BY**  
RDL

**DRAWN BY**  
DJC

**DRAWING No**  
14-M201

**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