

BUILDING 115 - 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
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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

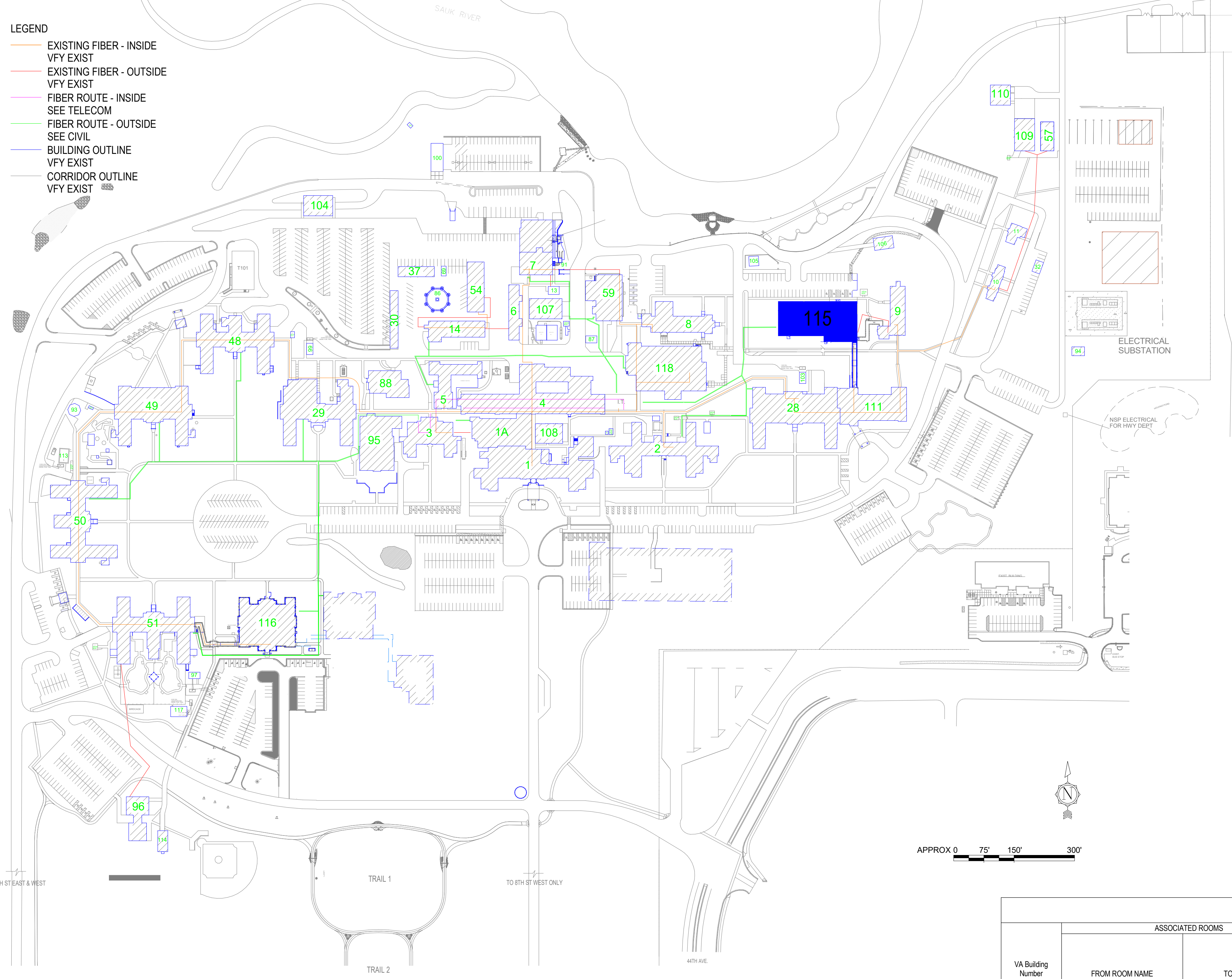
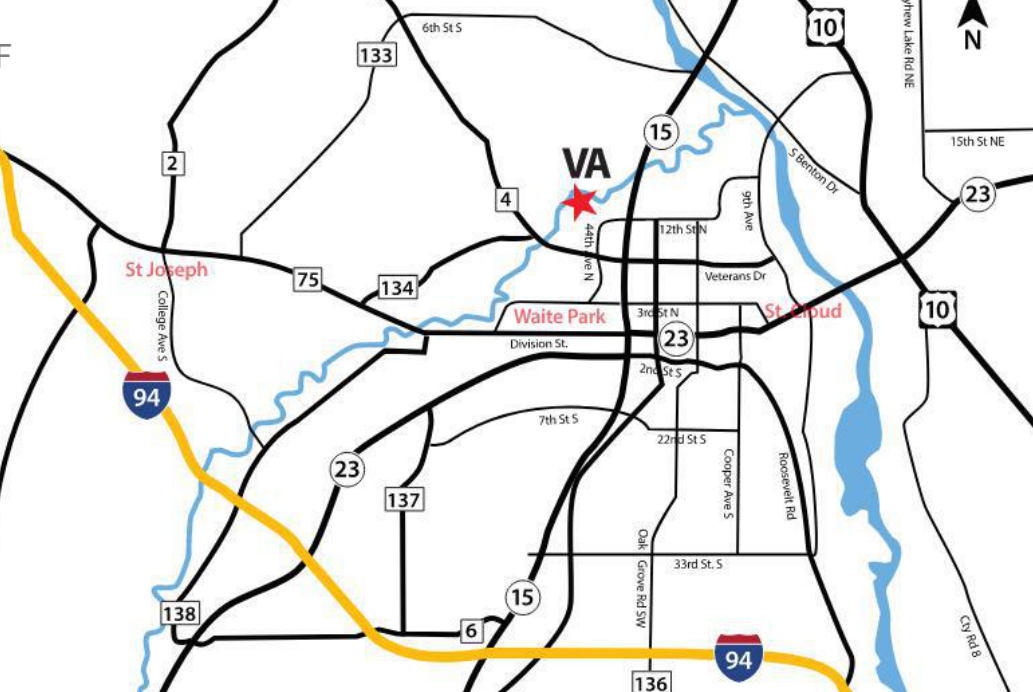
TELECOMMUNICATIONS ENGINEER:
NAME: SPECIALIZED ENGINEERING SOLUTIONS
ADDRESS: 10390 ELLISON CIRCLE
OMAHA, NE 68134

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:



SHEET INDEX - BUILDING 115	
SHEET NO.	SHEET TITLE
115-0000	BUILDING 115 COVER SHEET & SHEET INDEX
115-GH11	FIRST FLOOR - INFECTION CONTROL & PHASING PLAN
115-AS110	FIRST FLOOR PLANS
115-TD110	FIRST FLOOR PLAN - TELECOMM - DEMOLITION
115-TN110	FIRST FLOOR PLAN - TELECOMMUNICATIONS
115-TN210	FIRST FLOOR PLAN - TELECOMM - CABLE DISTANCE
115-TN400	ENLARGED PLANS - TELECOMMUNICATIONS
115-E201	FIRST FLOOR - ELECTRICAL
115-E300	ELECTRICAL ENLARGED PLANS
115-M101	FIRST FLOOR DEMOLITION - MECHANICAL
115-M201	FIRST FLOOR - 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	HT TO CLG STRUCT	REMARKS		
FIRST FLOOR	107	TELECOM ROOM		X	X		X		X	X		74 SF	8.1	9.0	13.25	UPDATE EXIST IT/DATA ROOM TO EHRM TELECOM ROOM STANDARDS. SEE TELECOM DRAWINGS

HAZARDOUS MATERIAL SCHEDULE				
LEVEL	ROOM NO.	ROOM NAME	QUESTIONABLE HAZARDOUS ELEMENT	POSSIBLE ABATEMENT ACTION
FIRST FLOOR	107	TELECOM ROOM	NONE	NONE
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	107	TELECOM ROOM	MENTAL HEALTH BEDS	TYPE C	GROUP 2	CLASS III	EAST	OCCUPIED CONSTRUCTION	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	107	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		
	FROM ROOM NAME	TO ROOM NAME	NUMBER	WIDTH	HEIGHT	PANEL TYPE	2ND PANEL TYPE	PANEL GLAZING	FRAME TYPE	FRAME GLAZING	COMMENTS

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NO.	REVISION	DATE

CONSULTANT

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10360 Ellison Circle
Omaha, NE 68134
Phone: 402-991-5520
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ARCHITECT/ENGINEER OF RECORD

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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 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 115 COVER SHEET & SHEET INDEX

PROJECT FILE: EHRM INFRASTRUCTURE UPGRADES
DATE: 03/30/2022
PLOT SCALE: 1"=10'-0"
PROJECT NO: 656-21-235
BUILDING NO: 115
CHECKED BY: EM
DRAWN BY: EM
SHOWN NO: 115-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	107	TELECOM ROOM	MENTAL HEALTH BEDS	TYPE C	GROUP 2	CLASS III

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.

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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No.	REVISION	DATE

CONSULTANT

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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

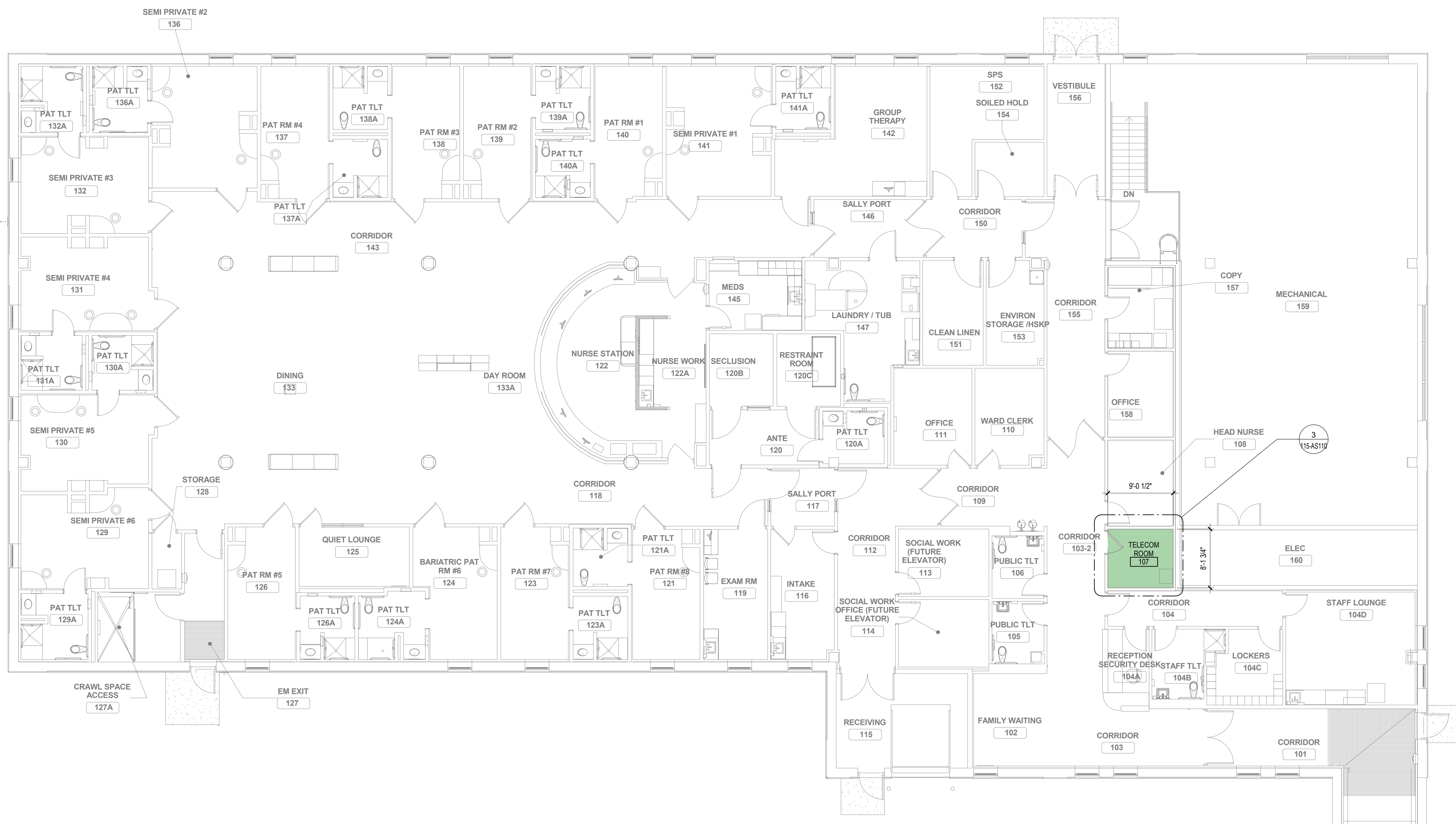
PROJECT FILE

EHM INFRASTRUCTURE UPGRADES

DATE: 03/30/2022
PLOTSCALE: 1/8"=1'-0"
PROJECT NO: 656-21-235
DRAWING NO: 115-G111

BUILDING NO: 115 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



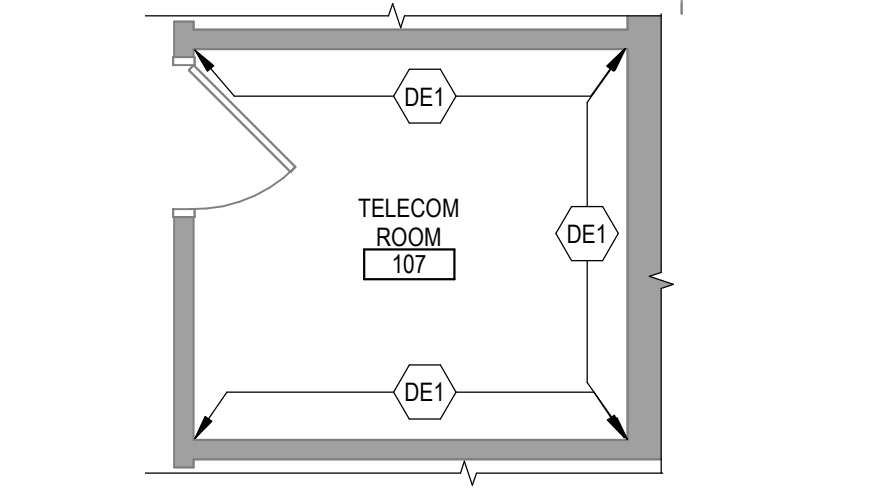
1 FIRST FLOOR - OVERALL PLAN
1/8" = 1'-0"



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



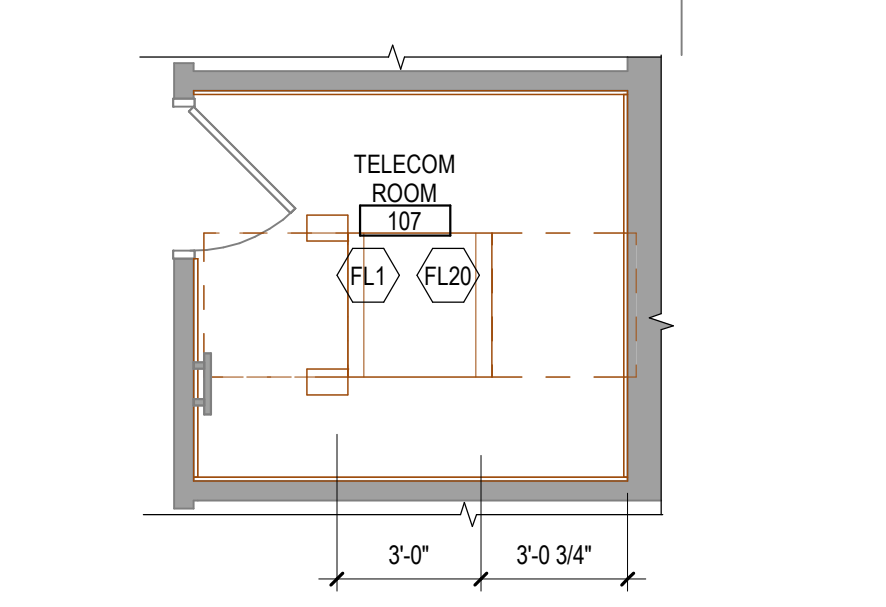
2 DEMOLITION PLAN
1/4" = 1'-0"

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 / ET CETERA. DO NOT PAINT OVER FIRE RATINGS STAMP

FL20 TELECOM EQUIPMENT. SEE TELECOM DRAWINGS

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



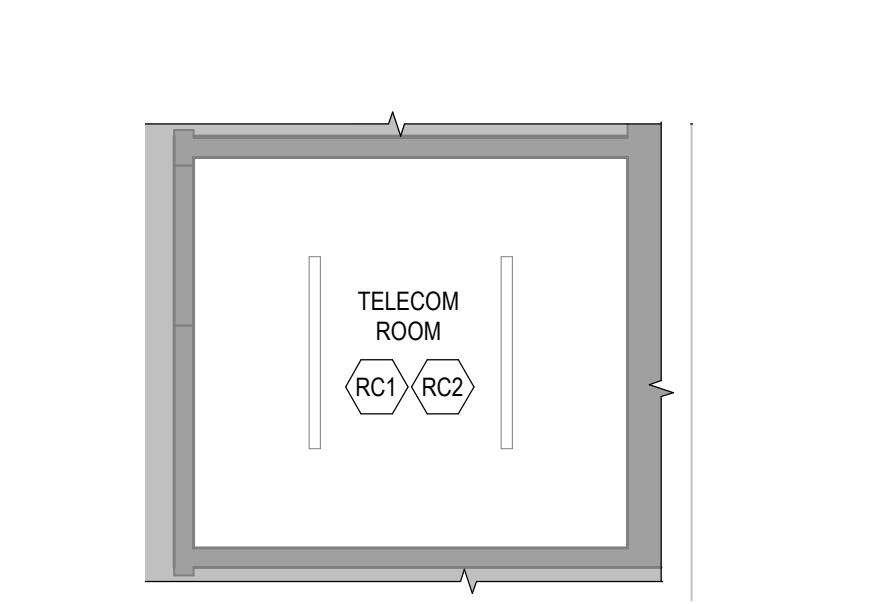
3 ENLARGED FLOOR PLAN
1/4" = 1'-0"

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



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

SHEET NOTES

- SEE GENERAL NOTES AND CAMPUS DRAWINGS FOR GENERAL INFORMATION, LIFE SAFETY, ICR, 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 THE 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

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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

PROJECT NO.

656-21-235

BUILDING NO.

115

CHECKED BY

EM

DRAWN BY

EM

ISSUED BY

115-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

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

SHEET NOTES:
 1. EXISTING TELECOMMUNICATIONS CAGE AND RACK SHALL BE INCLUDED WITHIN THE SCOPE OF DEMOLITION. EXISTING CABLING AND ASSOCIATED OUTLETS SHALL BE REMOVED AND REPLACED 1 FOR 1 AND REFER FROM DISTRIBUTION EQUIPMENT LOCATED WITHIN THE NEW TELECOMMUNICATIONS ROOM. REFER TO GENERAL CABLING NOTES FOR APPROXIMATE QUANTITIES. REFER TO NEW WORK PLANS FOR SERVING COMMUNICATIONS ROOM LOCATION AND NEW CABLING ROUTES.

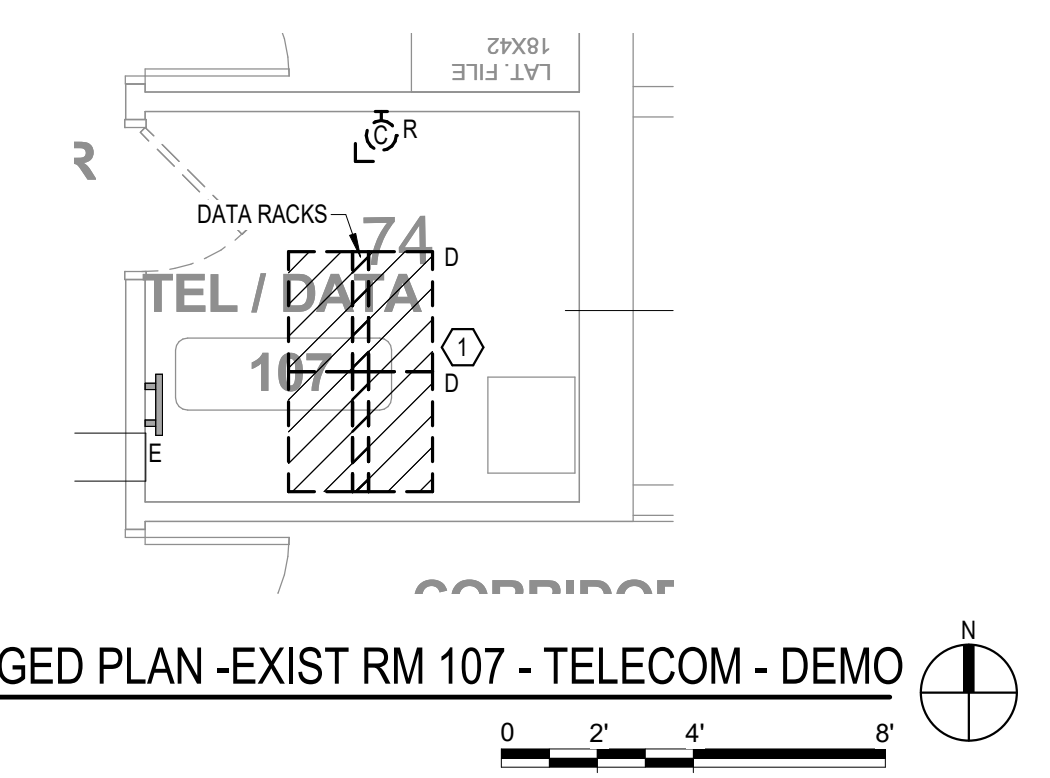
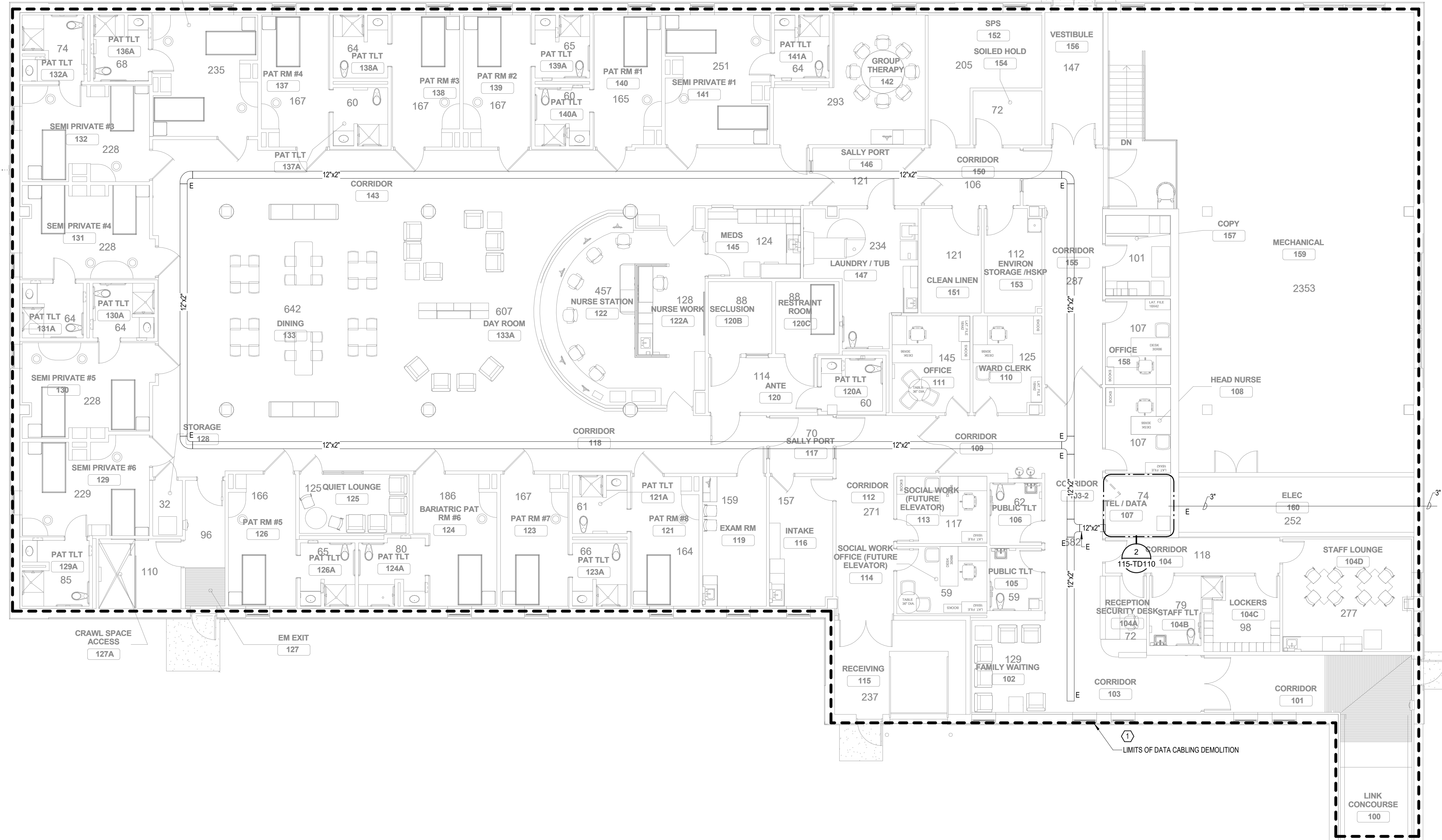
CABLING NOTE:
 CABLING NOTES
 A. THE EXISTING CABLE COUNT ARE THE CABLES CURRENTLY PRESENT IN THE SPACE. THE CABLE RELOCATION COUNT ARE THE NEW OR RELOCATED CABLES TO BE FED FROM THE SPACE. THE FINAL CABLE COUNT ARE THE CABLES THAT WILL BE PRESENT IN THE SPACE AT THE COMPLETION OF THE PROJECT.

1. ROOM 107
 EXISTING CABLE COUNT
 DATA (CAT6): 0
 DATA (CAT5e): 54
 DATA (CAT5): 0
 DATA (CAT3): 0

CABLE RELOCATION COUNT
 DATA (CAT6): 0
 DATA (CAT5e): 0
 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): 0
 DATA (CAT5e): 0
 DATA (CAT5): 0
 DATA (CAT3): 0



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

2 ENLARGED PLAN - EXIST RM 107 - TELECOM - DEMO
 1/4" = 1'-0"

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No.	REVISION	DATE

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Bicsi
 Nathan Timm
 BICS1 ID # 346555 Expires 12-31-24
 Nathan M. Timm

DRAWING TITLE

FIRST FLOOR PLAN - TELECOM - DEMOLITION

PROJECT FILE

EHRM INFRASTRUCTURE UPGRADES

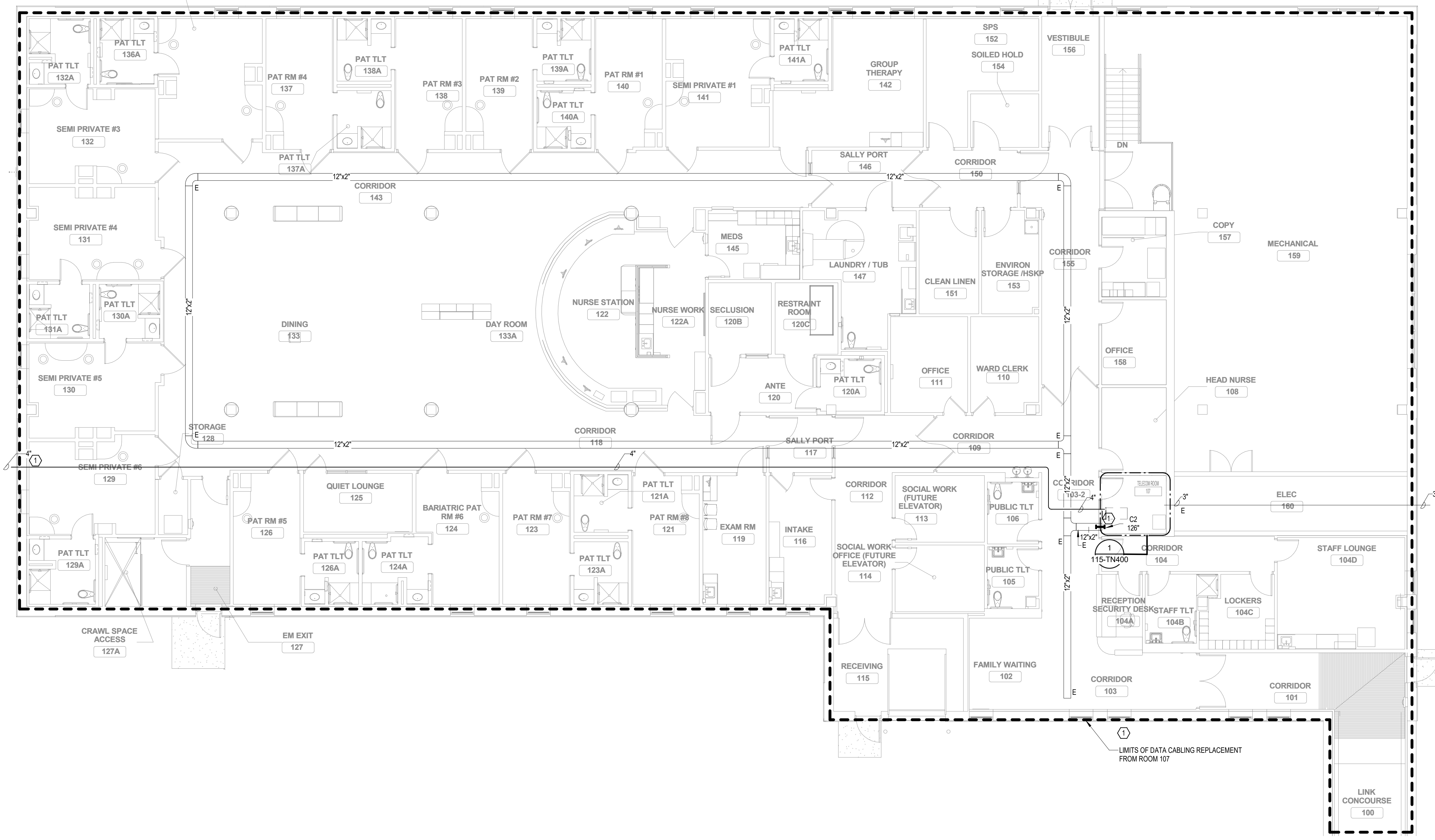
DATE 03/30/2022
PLOT SCALE
PROJECT NO. 656-21-235
DRAWING NO. 115-TD110

BUILDING NO. 115 **DESIGNED BY** KSB **DRAWN BY** SSK
LOCATION VA MEDICAL CENTER ST. CLOUD, MN 56303 **FULLY SPRINKLERED**

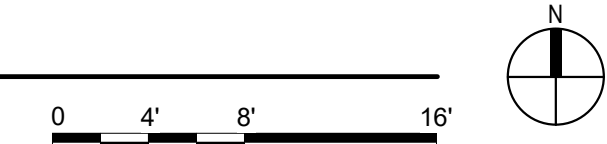
VA U.S. Department of Veterans Affairs
 Veterans Health Administration
 St. Cloud VA Health Care System

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

SHEET NOTES:
1. PROVIDE JUNCTION BOX TO CONNECT EXISTING FIBER CONDUIT ENTRY TO EXTEND CONDUIT PATHWAY TO THE NEW TELECOM ROOM.



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



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No.	REVISION	DATE

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Anderson Engineering of Minnesota, LLC | Proj # 16305

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

DRAWING TITLE
FIRST FLOOR PLAN - TELECOMMUNICATIONS

PROJECT FILE
EHRM INFRASTRUCTURE UPGRADES

DATE
03/30/2022

PLOT SCALE
AS SHOWN

PROJECT NO.
656-21-235

DRAWN BY
SSK

CHECKED BY
KSB

DATE
03/30/2022

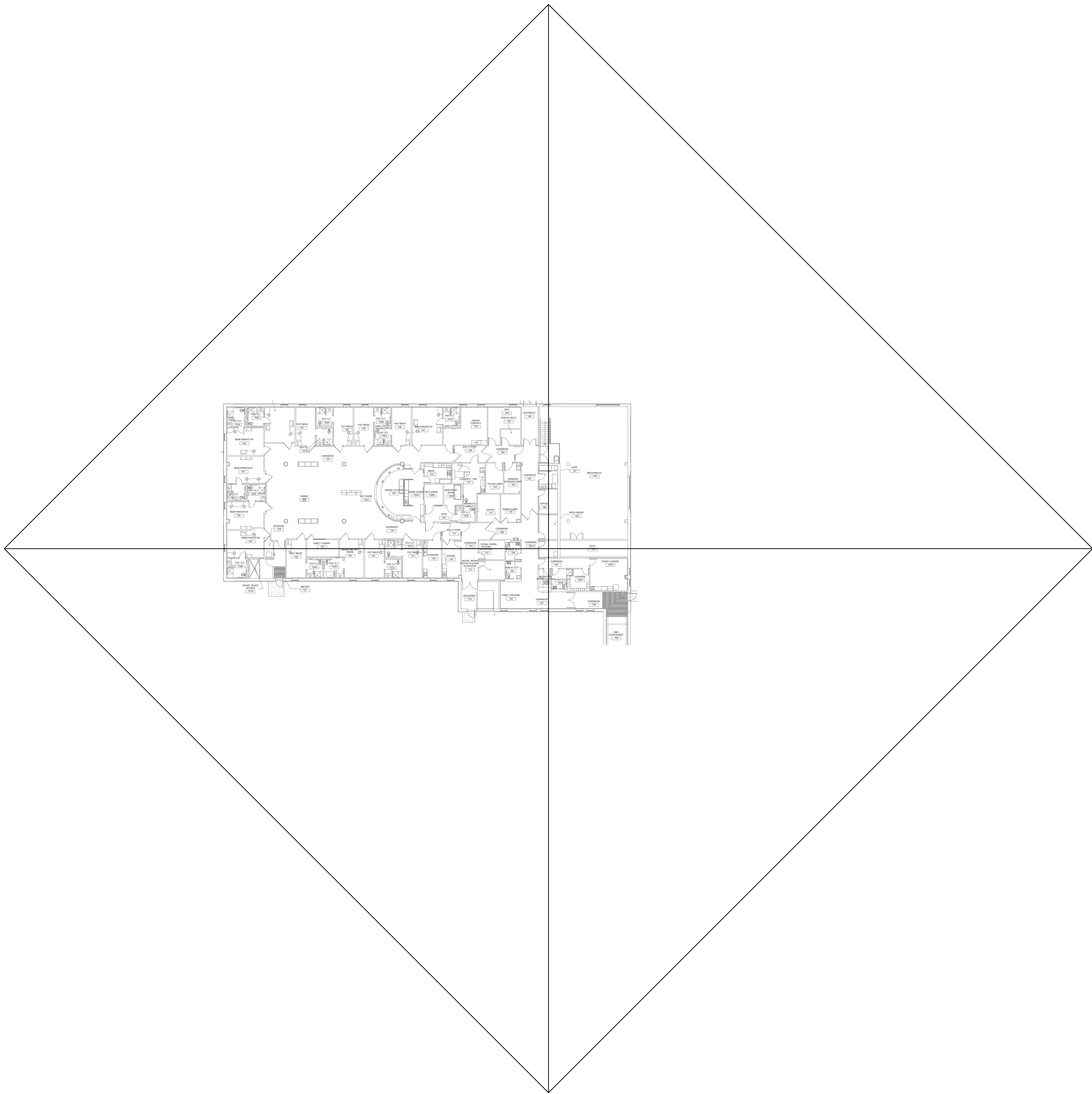
PROJECT NO.
115-TN110

LOCATION
VA MEDICAL CENTER
ST. CLOUD, MN 56303

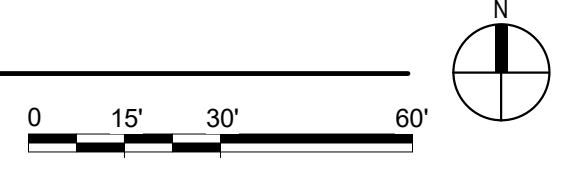
FULLY SPRINKLERED

DWG. OF

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



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



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No.	REVISION	DATE

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Anderson Engineering of Minnesota, LLC | Proj # 16305

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Nathan Timm
BICS1 ID # 346555
Exp. 12-31-24

Nathan M. Timm

DRAWING TITLE

FIRST FLOOR PLAN - TELECOM - CABLE DISTANCE

PROJECT TITLE	DATE
EHRM INFRASTRUCTURE UPGRADES	03/30/2022
PLOT SCALE	
PROJECT NO.	
656-21-235	
DRAWING NO.	
115-TN210	
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

A

B

C

D

E

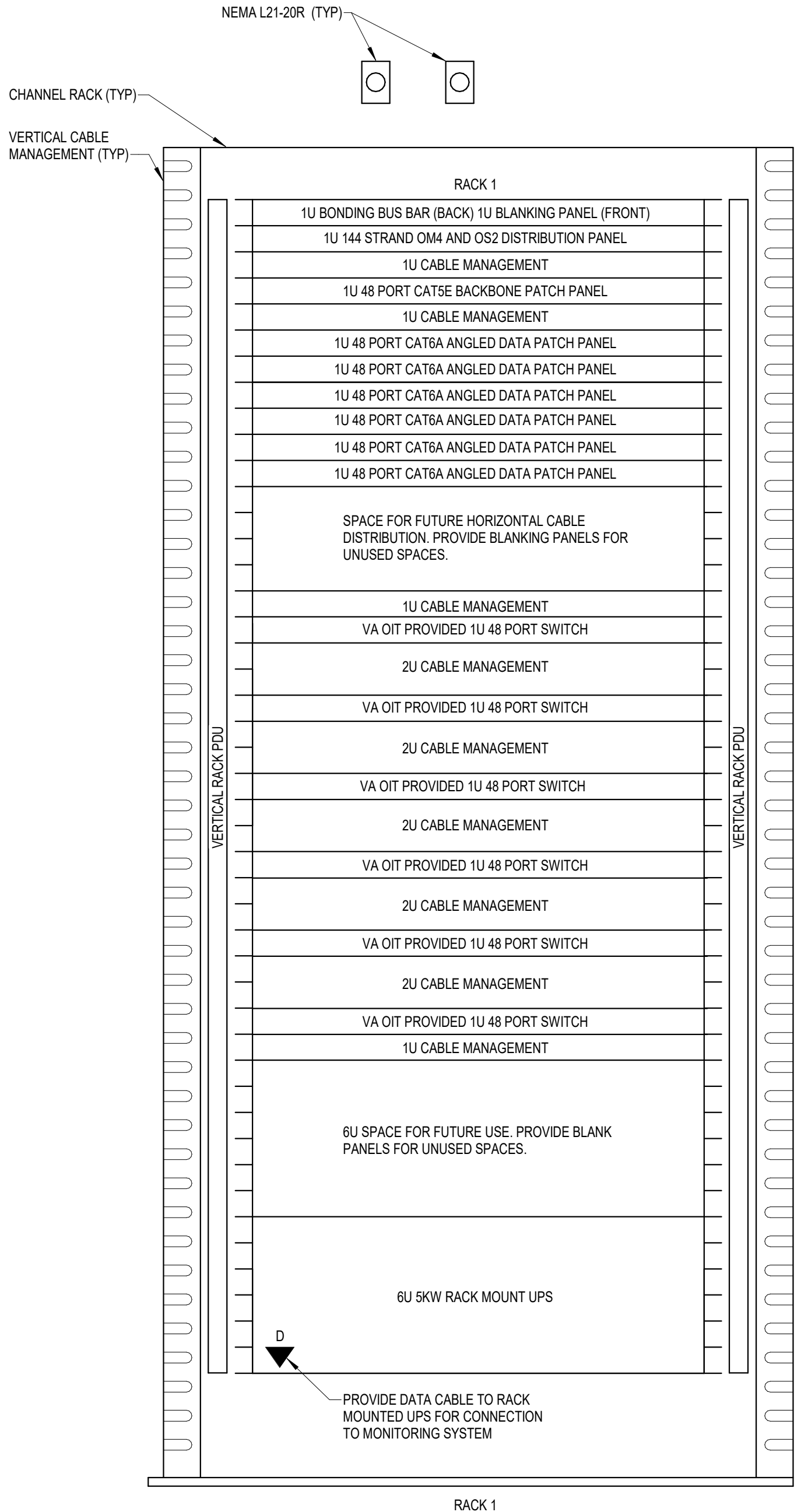
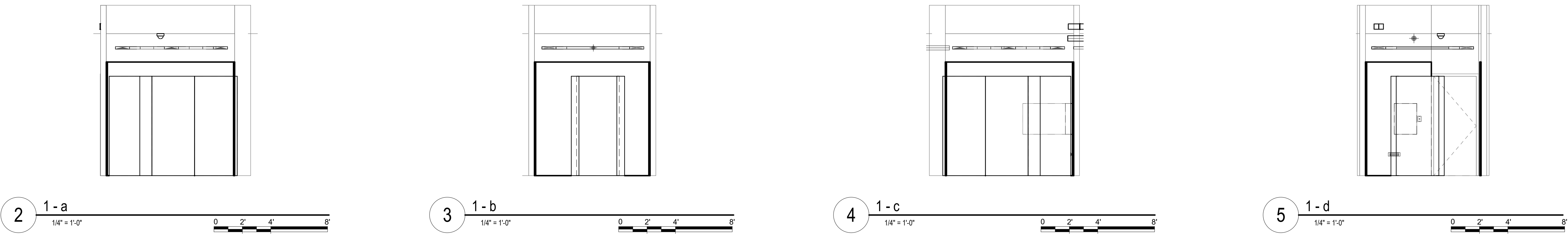
F

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

SHEET NOTES:
1. IF NO ACCESS CONTROL PANEL IS PRESENT IN THE TR, 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.

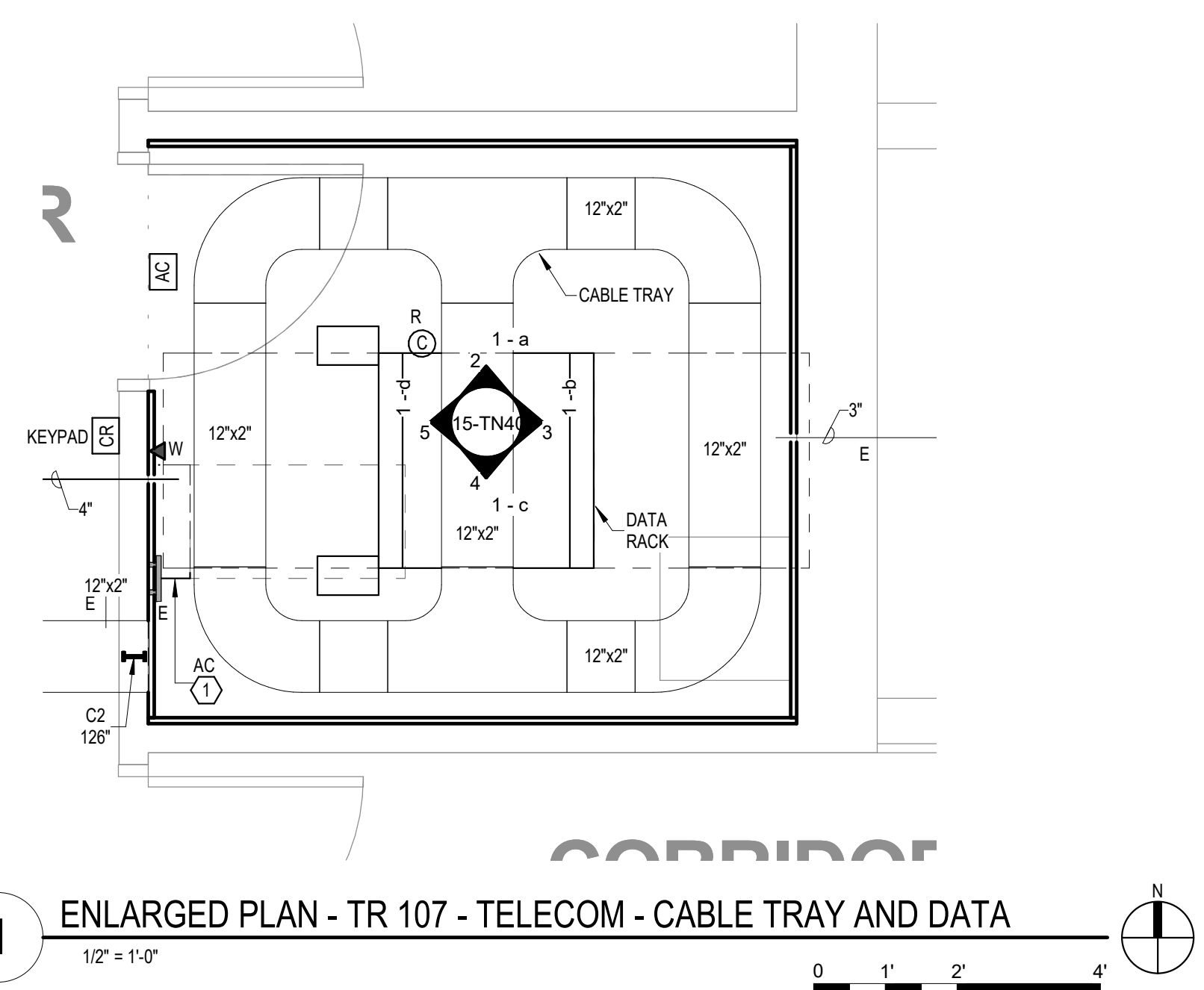
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1. ROOM 107
EXISTING CABLE COUNT
DATA (CAT5): 0
DATA (CAT5e): 94
DATA (CAT3): 0
DATA (CAT3): 0
CABLE RELOCATION COUNT
DATA (CAT5): 0
DATA (CAT5e): 0
DATA (CAT3): 0
DATA (CAT3): 0
EXISTING CABLE TO REMAIN
DATA (CAT5): 0
DATA (CAT5e): 0
DATA (CAT3): 0
DATA (CAT3): 0
FINAL CABLE COUNT
DATA (CAT5): 94
DATA (CAT5e): 0



- 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 S/IIT 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 ONE RACK ELEVATION WITH RACK MOUNT UPS - TR 107
NOT TO SCALE



1 ENLARGED PLAN - TR 107 - TELECOM - CABLE TRAY AND DATA
1/2" = 1'-0"

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Nathan Timm
BICS ID # 346555
Expires 12-31-24
REGISTERED COMMUNICATIONS DISTRIBUTION

DRAWING TITLE

ENLARGED PLANS - TELECOMMUNICATIONS

PROJECT FILE

EHRM INFRASTRUCTURE UPGRADES

DATE: 03/30/2022
PLOT SCALE:
PROJECT NO: 656-21-235
DRAWING NO: 115-TN400

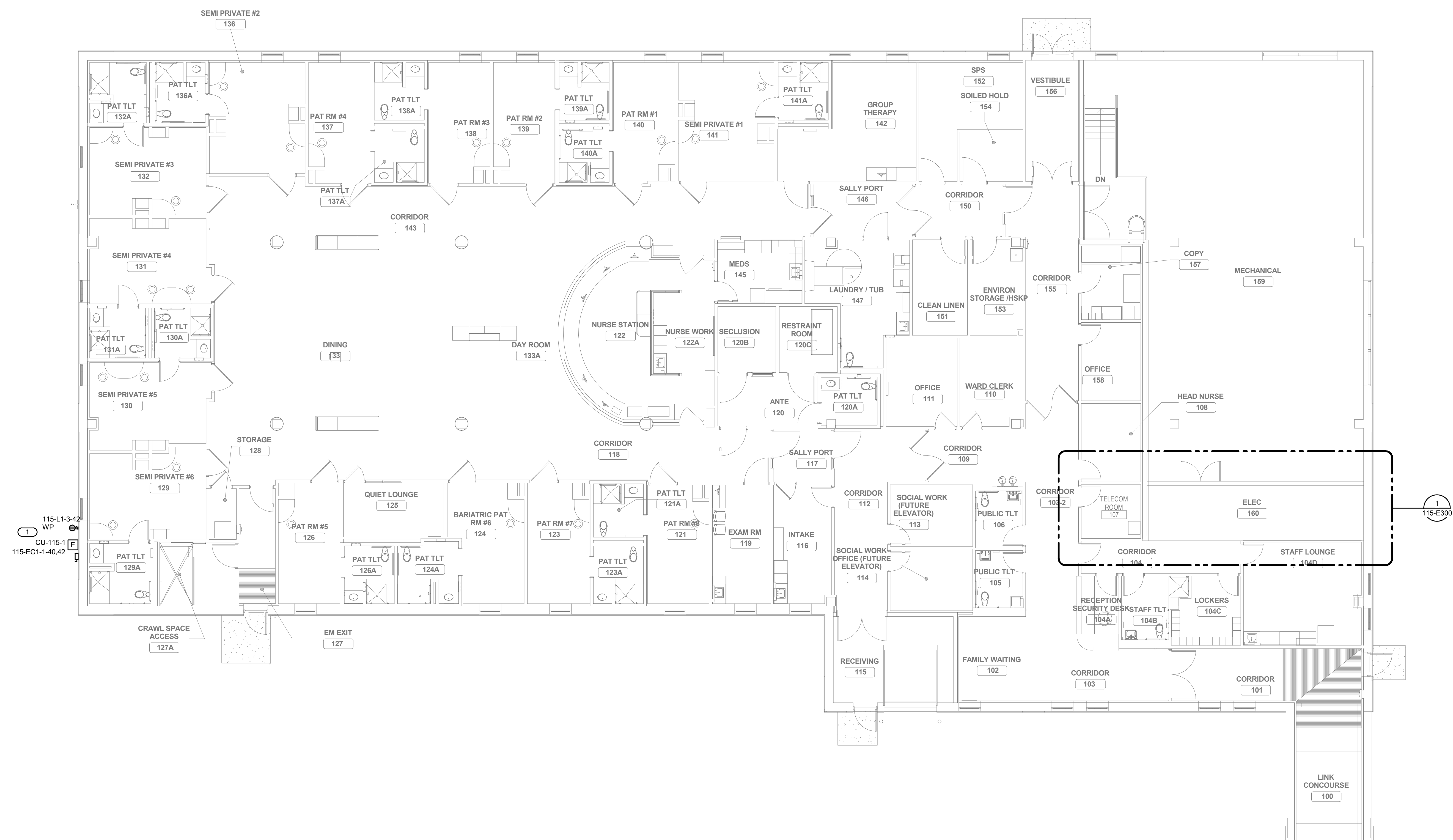
BUILDING No: 115
CHECKED BY: KSB
DRAWN BY: SSK
LOCATION: VA MEDICAL CENTER ST. CLOUD, MN 56303
FULLY SPRINKLERED
DWS OF

VA

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

KEYNOTES: (C) #

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



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

5/8/2022 12:12:20 PM BIM 360://21102.001 - VA St. Cloud EHRM Infrastructure Upgrades/656-235-B115.E_P01.rvt

No.	REVISION	DATE
100% CD		03/30

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LEED AC
PROFESSIONAL ENGINEER
53096
06-06-2022

DRAWING TITLE

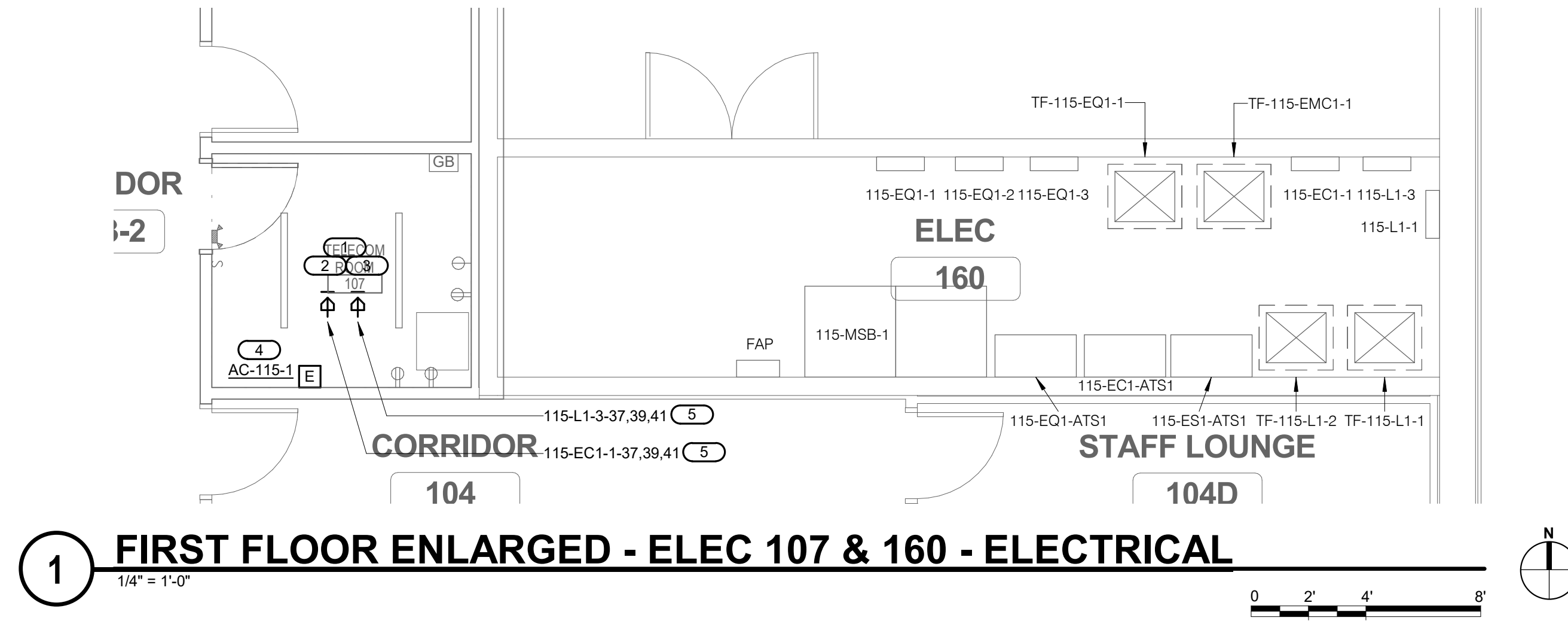
FIRST FLOOR - ELECTRICAL

PROJECT FILE	DATE
EHRM INFRASTRUCTURE UPGRADES	03/30/2022
PROJECT NO.	PLANT NO.
656-21-235	
DRAWING NO.	DATE
115-E201	
LOCATION	STATUS
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

A B C D E F



1 FIRST FLOOR ENLARGED - ELEC 107 & 160 - ELECTRICAL

- KEYNOTES:**
- COORDINATE FINAL LOCATION OF RECEPTACLE L21-20R WITH TELECOM CONTRACTOR. PROVIDE 3/4" x 4/12" 1#12 GND TO PANEL FOR EACH RECEPTACLE.
 - PROVIDE EATON BLADEUPS, 5KW, 120/208V, 3-PHASE, 4-WIRE RACK MOUNTED UPS FOR EACH RACK TOWER.
 - PROVIDE APC#AP8861 RPOU RACK PDU 2G WITH L21-20R CORD (120/208V, 3-PHASE, 20A, ZERO U, 5.7 KW, 208V, (36) C13 (6) C19 (2) 5-20R OUTLETS. PROVIDE TWO PER RACK. MOUNTED PER MANUFACTURER'S REQUIREMENTS.
 - INDOOR UNIT TO BE POWERED BY OUTDOOR UNIT. COORDINATE EXACT LOCATION WITH M.C.
 - VERIFY EXACT BREAKER LOCATION WITH SPACE IN PANEL.

EXISTING PANEL 115-EC1-1

MOUNTING: SURFACE
ENCLOSURE: NEMA PB 1
FED FROM: TF-115-EMC1-1
LOCATION:

SOLID NEUTRAL GROUND BUS

MAIN: 100 A MCB
VOLTS: 120/208 Wye
PHASE: 3
WIRE: 4
SCCR: 65 kA
ISC UNKNOWN 0.00 kA

NOTES:

K E Y	CKT NO.	LOAD DESCRIPTION	OCPD AMPS	WIRE SIZE P H N G	A	B	C	WIRE SIZE G N H P	OCPD AMPS	LOAD DESCRIPTION	K E Y
	1										2
	3										4
	5										6
	7										8
	9										10
	11										12
	13										14
	15										16
	17										18
	19										20
	21										22
	23										24
	25										26
	27										28
	29										30
	31										32
	33										34
	35										36
	37	L21-20R	20 A 3		1.67						38
	39	--	--	--	--	1.67	0			2 20 A	40
	41	--	--	--	--			1.67	0		42
		Total Load:			1.67 kVA	1.67 kVA	1.67 kVA				
		Total Amps:			13.89	13.89	13.89				

LOAD SUMMARY

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	TOTALS*
Power	5 kVA	100.00%	5 kVA	TOTAL CONNECTED LOAD: 5.00 kVA TOTAL ESTIMATED DEMAND LOAD: 5 kVA
				TOTAL CONNECTED AMPS: 13.88 A TOTAL ESTIMATED DEMAND AMPS: 13.9 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:

EXISTING PANEL 115-L1-3

MOUNTING: SURFACE
ENCLOSURE: NEMA PB 1
FED FROM: TF-115-L1-2
LOCATION:

SOLID NEUTRAL GROUND BUS

MAIN: 100 A MCB
VOLTS: 120/208 Wye
PHASE: 3
WIRE: 4
SCCR: 65 kA
ISC UNKNOWN 0.00 kA

NOTES:

K E Y	CKT NO.	LOAD DESCRIPTION	OCPD AMPS	WIRE SIZE P H N G	A	B	C	WIRE SIZE G N H P	OCPD AMPS	LOAD DESCRIPTION	K E Y
	1										2
	3										4
	5										6
	7										8
	9										10
	11										12
	13										14
	15										16
	17										18
	19										20
	21										22
	23										24
	25										26
	27										28
	29										30
	31										32
	33										34
	35										36
	37	L21-20R	20 A 3		1.67						38
	39	--	--	--	--	1.67					40
	41	--	--	--	--		1.67	0.18		1 20 A	42
		Total Load:			1.67 kVA	1.67 kVA	1.85 kVA				
		Total Amps:			13.89	13.89	15.39				

LOAD SUMMARY

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	TOTALS*
Power	5 kVA	100.00%	5 kVA	TOTAL CONNECTED LOAD: 5.00 kVA TOTAL ESTIMATED DEMAND LOAD: 5.00 kVA
Receptacles	0.18 kVA	100.00%	0.18 kVA	TOTAL CONNECTED LOAD: 5.18 kVA TOTAL ESTIMATED DEMAND LOAD: 5.18 kVA
				TOTAL CONNECTED AMPS: 14.38 A TOTAL ESTIMATED DEMAND AMPS: 14.4 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:

BIM 360/21102.001 - VA St. Cloud EHRM Infrastructure Upgrades 656-235-B115-E_P01.rvt

100% CD	03/30
No	REVISION
	DATE

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06-06-2022

DRAWING TITLE

ELECTRICAL ENLARGED PLANS

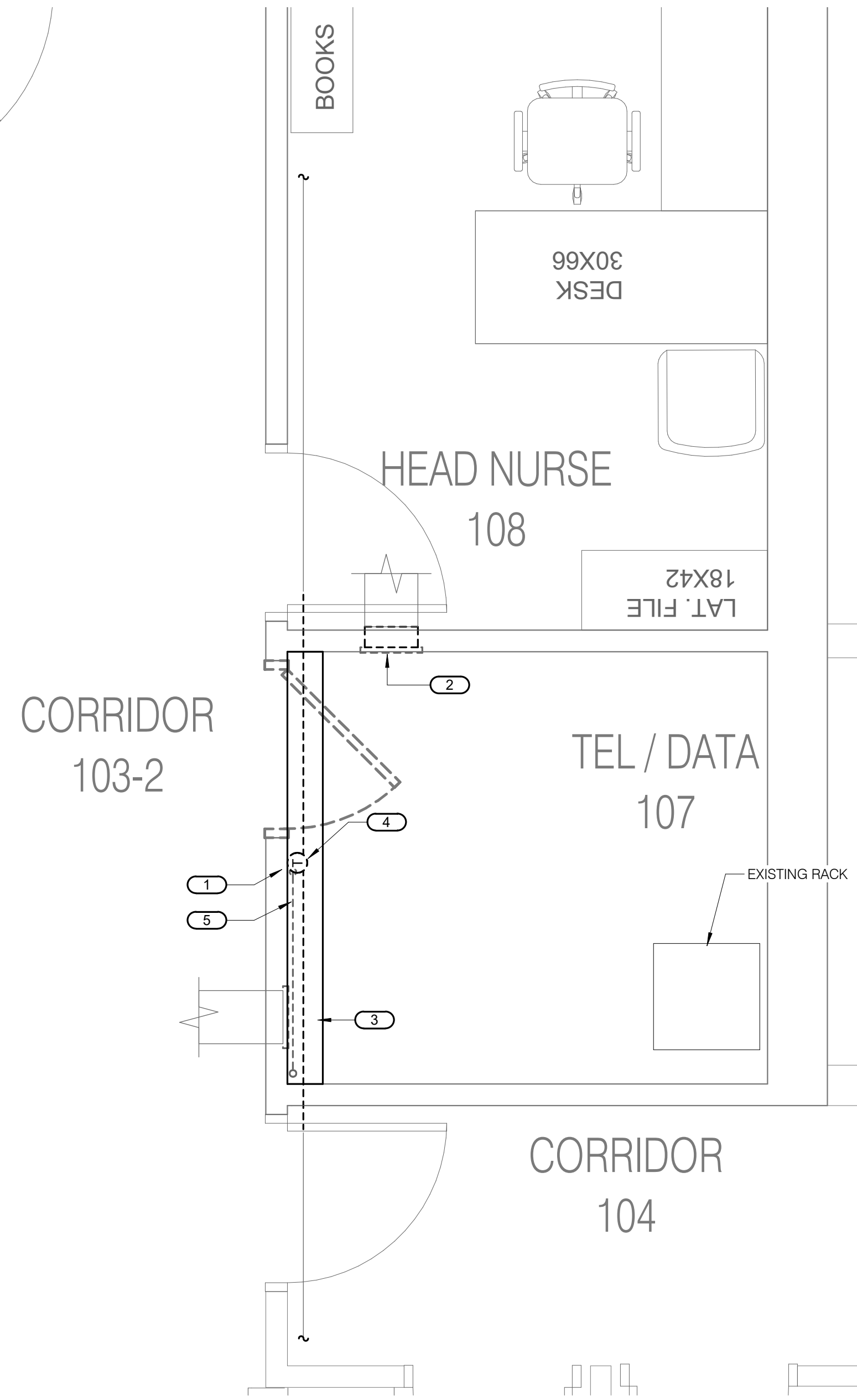
PROJECT FILE: EHRM INFRASTRUCTURE UPGRADES
DATE: 03/30/2022
PLOT SCALE:
PROJECT NO: 656-21-235
BUILDING NO: 115
CHECKED BY: TBD
DRAWN BY: GJL
PROJECT NO: 115-E300
LOCATION: VA MEDICAL CENTER ST. CLOUD, MN 56303
FULLY SPRINKLERED
DWG. OF:

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

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 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 EXISTING THERMOSTATIC CONTROL DEVICES
 - E. SIZE AND LOCATION OF 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 THEIR BID AND INCLUDE IN THEIR BID ANY AND ALL AMOUNTS REQUIRED TO ACCOMMODATE EXISTING CONDITIONS.
3. ANY DISCREPANCIES WHICH MAY AFFECT CONTRACTORS BID SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER AND ARCHITECT FOR DIRECTION

- KEYNOTES 1/115-M101:** #
1. REMOVE AND DISPOSE OF EXISTING DRIP PANNED 3" HYDRONIC HEATING PIPE AS SHOWN. PREPARE FOR RECONNECTION.
 2. REMOVE AND DISPOSE OF EXISTING SUPPLY AIR DIFFUSER. CAP DUCT.
 3. REMOVE AND DISPOSE OF EXISTING RETURN AIR GRILLE. CAP DUCT.
 4. REMOVE AND DISPOSE OF EXISTING THERMOSTAT AND ASSOCIATED WIRING.
 5. REMOVE AND DISPOSE OF 3/4" DRAIN TO FLOOR.



1 FIRST FLOOR DEMOLITION - MECHANICAL - EXIST 107
 1/2" = 1'-0"

5/12/2022 4:31:38 PM
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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 Engineer under the laws of the State of Minnesota.

Name: _____
 Date: 03/30/2022
 License Number: MN# _____

DRAWING TITLE

FIRST FLOOR DEMOLITION - MECHANICAL

PROJECT FILE		DATE	
EHRM INFRASTRUCTURE UPGRADES		03/30/2022	
PROJECT NO.		PLOT SCALE	
656-21-235			
BUILDING No.	CHECKED BY	DRAWN	DRAWING NO.
115	RDL	DJC	115-M101
LOCATION		FULLY SPRINKLERED	
VA MEDICAL CENTER ST. CLOUD, MN 56303		DWS OF	

VA

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

KEYNOTES, 2/115-M201:

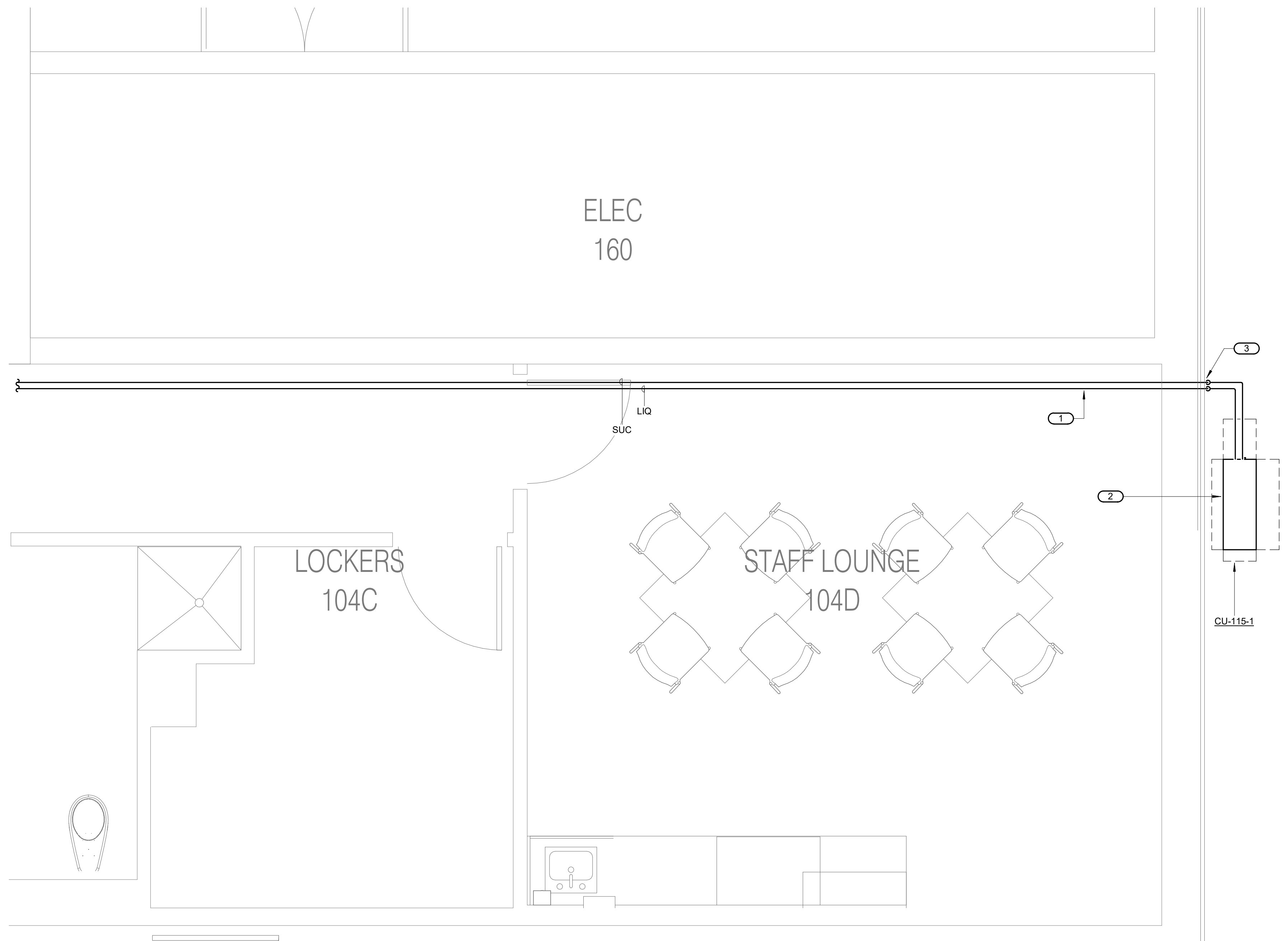
- ROUTE REFRIGERANT PIPING FROM AIR COOLED CONDENSING UNIT TO RM 108AC UNIT. FIELD COORDINATE EXACT ROUTING REQUIREMENTS.
- PROVIDE NEW CONDENSING UNIT ON GRADE. PROVIDE CONCRETE PAD. REFER TO REFRIGERANT PIPING DETAIL 1/0-GM400 AND PAD MOUNTING DETAIL 3/0-GM400.

KEYNOTES, 1/115-M201:

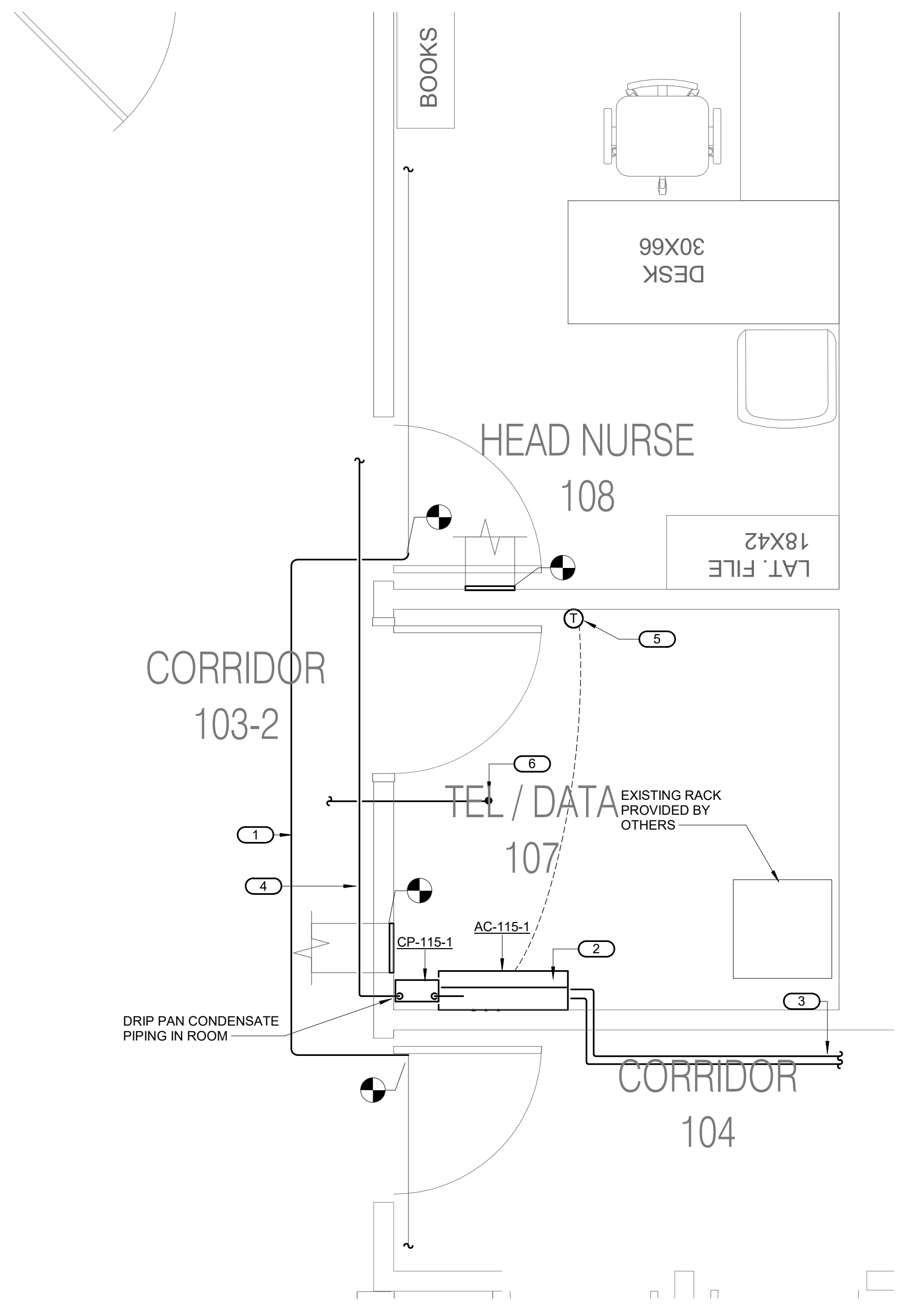
- REROUTE AND RECONNECT EXISTING 3" HYDRONIC HEATING PIPE - FIELD VERIFY EXACT REQUIREMENTS.
- PROVIDE NEW SPLIT SYSTEM AC UNIT.
- ROUTE REFRIGERANT PIPING TO NEW AIR-COOLED CONDENSING UNIT LOCATED AT EAST EXTERIOR OF BUILDING. SEE 2/115-M201.
- ROUTE 1" PUMPED CONDENSATE PIPING TO FLOOR DRAIN IN MECHANICAL ROOM 159, APPROXIMATELY 30 FT NORTH. FIELD COORDINATE FINAL ROUTING.
- PROVIDE NEW THERMOSTAT.
- PROVIDE NEW FIRE-SPRINKLER HEAD AND BRANCH PIPE. CONNECT TO SPRINKLER MAIN IN CORRIDOR. FIELD VERIFY REQUIREMENTS.

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:
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 - SIZE AND LOCATION OF ALL EXISTING DUCTWORK.
 - SIZE AND LOCATION OF ALL EXISTING GRILLES, REGISTERS AND DIFFUSERS.
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- ANY DISCREPANCIES WHICH MAY AFFECT CONTRACTORS BID SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER AND ARCHITECT FOR DIRECTION



2 FIRST FLOOR - MECHANICAL - CONDENSING UNIT
1/2" = 1'-0"



1 FIRST FLOOR - MECHANICAL
1/2" = 1'-0"

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No.	REVISION	DATE
100% CD		03/30

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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 under the laws of the State of Minnesota.

Name: _____
Date: 03/30/2022
License Number: MN# _____

DRAWING TITLE
FIRST FLOOR - MECHANICAL

PROJECT FILE	DATE
EHRM INFRASTRUCTURE UPGRADES	03/30/2022
PLOT SCALE	
PROJECT NO.	DRAWING NO.
656-21-235	115-M201
BUILDING No.	CHECKED BY
115	RDL
LOCATION	DRAWN BY
VA MEDICAL CENTER ST. CLOUD, MN 56303	DJC
	DATE
	03/30/2022
	SCALE
	1/2" = 1'-0"
	PROJECT NO.
	656-21-235
	DRAWING NO.
	115-M201
	LOCATION
	VA MEDICAL CENTER ST. CLOUD, MN 56303
	FULLY SPRINKLERED
	DWG. OF

U.S. Department of Veterans Affairs

VA

Veterans Health Administration
St. Cloud VA Health Care System