EHRM INFRASTRUCTURE UPGRADES

CHARLES GEORGE VA MEDICAL CENTER

1100 TUNNEL ROAD ASHEVILLE, NC 28805

BLDG 62

FINAL BID DOCUMENTS

12.19.2025

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VA | U.S. Department of Veterans Affairs

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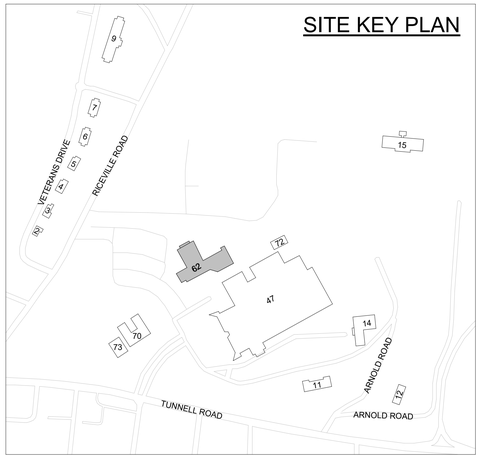
COFFMAN ENGINEERS

SITE KEY PLAN



Sheet List	
Sheet Number	Sheet Name
BLDG 62	
01-GENERAL	
62-GI001	COVER SHEET
07-STRUCTURAL	
62-SF100	STRUCTURAL BASEMENT PLAN
62-SF101	STRUCTURAL 1ST FLOOR PLAN
62-SF102	STRUCTURAL 2ND FLOOR PLAN
08-ARCHITECTURE	
62-AD401	1ST & 2ND FLOOR ENLARGED DEMO FLOOR PLANS & RCP'S
62-AE101	OVERALL FLOOR & DEMO PLAN - 1ST FLOOR
62-AE102	OVERALL FLOOR & DEMO PLAN - 2ND FLOOR
62-AE103	OVERALL DEMO ROOF PLAN
62-AE401	1ST & 2ND FL. - ENLARGED FLOOR PLANS, RCP'S, & INT. ELEVATIONS
11-FIRE PROTECTION	
62-FX101	FIRE SUPPRESSION 1ST FLOOR PLAN
62-FX102	FIRE SUPPRESSION 2ND FLOOR PLAN
12-PLUMBING	
62-PD101	PLUMBING 1ST FLOOR DEMOLITION PLAN
62-PD102	PLUMBING 2ND FLOOR DEMOLITION PLAN
62-PP101	PLUMBING 1ST FLOOR PLAN
62-PP102	PLUMBING 2ND FLOOR PLAN
14-MECHANICAL	
62-MD101	MECHANICAL 1ST FLOOR DEMOLITION PLAN
62-MD102	MECHANICAL 2ND FLOOR DEMOLITION PLAN
62-MP101	MECHANICAL 1ST FLOOR PLAN
62-MP102	MECHANICAL 2ND FLOOR PLAN
62-MP103	MECHANICAL ROOF PLAN
62-MG601	MECHANICAL SCHEDULES
15-ELECTRICAL	
62-ED101	ELECTRICAL 1ST FLOOR DEMOLITION
62-ED102	ELECTRICAL 2ND FLOOR DEMOLITION
62-EP101	ELECTRICAL 1ST FLOOR PLAN
62-EP102	ELECTRICAL 2ND FLOOR PLAN
62-EP103	ELECTRICAL ROOF PLAN
62-EP601	ONE-LINE DIAGRAM AND SCHEDULES
62-EP602	PANEL SCHEDULES
62-EP603	PANEL SCHEDULES
16-TELECOMMUNICATION	
62-TD100	TELECOMMUNICATIONS DEMOLITION BASEMENT
62-TD101	TELECOMMUNICATIONS DEMOLITION 1ST FLOOR
62-TD102	TELECOMMUNICATIONS DEMOLITION 2ND FLOOR
62-TD601	TELECOMMUNICATIONS DEMOLITION RACK ELEVATIONS

Sheet List	
Sheet Number	Sheet Name
62-TN100	TELECOMMUNICATIONS BASEMENT PLAN
62-TN101	TELECOMMUNICATIONS 1ST FLOOR PLAN
62-TN102	TELECOMMUNICATIONS 2ND FLOOR PLAN
62-TN601	TELECOMMUNICATIONS DIAGRAMS
62-TN602	TELECOMMUNICATIONS RISER DIAGRAM
16.4 - PHYSICAL SECURITY	
62-TY101	1ST FLOOR SECURITY PLAN
62-TY102	2ND FLOOR SECURITY PLAN
Grand total: 40	

FINAL BID DOCUMENTS

Revisions:	Date:

ARCHITECT/ENGINEER OF RECORD

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LICENSED ARCHITECT GENE HAMILTON KING No. C-19576 EXP. 07-31-27 STATE OF CALIFORNIA

Facilities Management Services

VA U.S. Department of Veterans Affairs

Drawing Title	Phase	Project Title	Project Number
COVER SHEET	FINAL BID DOCUMENTS	EHRM INFRASTRUCTURE UPGRADES	637-22-700
			Building Number: 62
Approved:		Location: 1100 TUNNEL ROAD ASHEVILLE, NC 28805	Drawing Number: 62-GI001
FOR OFFICIAL USE ONLY		Issue Date: **12.19.2025** / Checked / Drawn	SHEET 485 of 559

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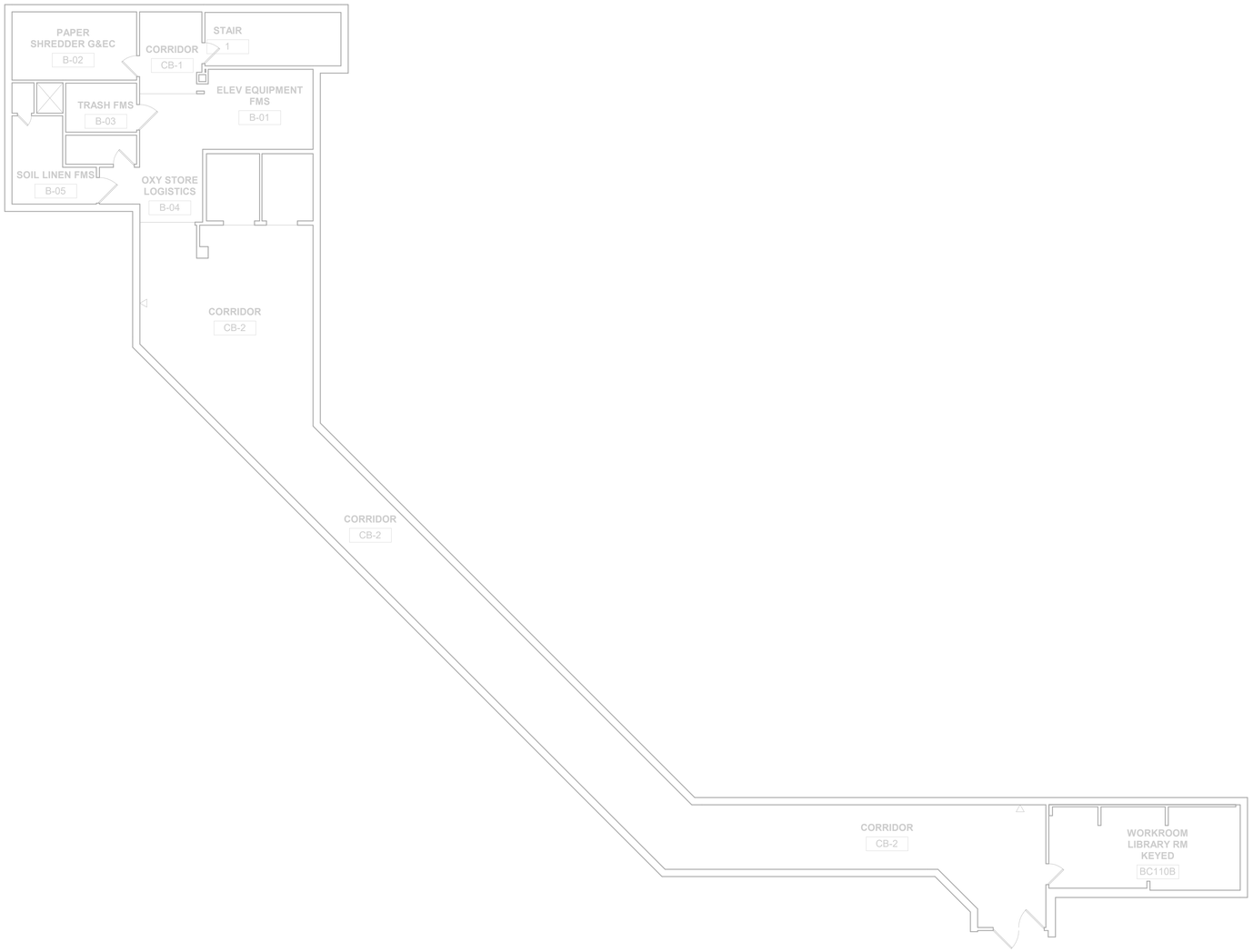

1 STRUCTURAL BASEMENT PLAN
1/8" = 1'-0"

SHEET NOTES:

GENERAL NOTES:

1. FIELD VERIFY EXISTING CONDITIONS.

PARTITION LEGEND

- FIRE BARRIER, 2 HR
- FIRE BARRIER, 1 HR
- SMOKE BARRIER, 1/2 HR
- SMOKE RESISTIVE HAZARDOUS
- PATIENT SUIT/ NON SLEEPING

PLAN NORTH N

1/8" = 1'-0" 5 0 5 10 15 20 SCALE FEET

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NORTH CAROLINA PROFESSIONAL SEAL 033610 ENGINEER PAUL HOFFMACK 12/19/2025

Facilities Management Services

VA U.S. Department of Veterans Affairs

Drawing Title	Phase	Project Title	Project Number
STRUCTURAL BASEMENT PLAN	FINAL BID DOCUMENTS	EHRM INFRASTRUCTURE UPGRADES	637-22-700
			Building Number: BLDG 62
Approved: FOR OFFICIAL USE ONLY		Location: 1100 TUNNEL ROAD ASHEVILLE, NC 28805	Drawing Number: 62-SF100
		Issue Date: 12.19.2025 / Checked: DU / Drawn: MBH	SHEET 486 of 559

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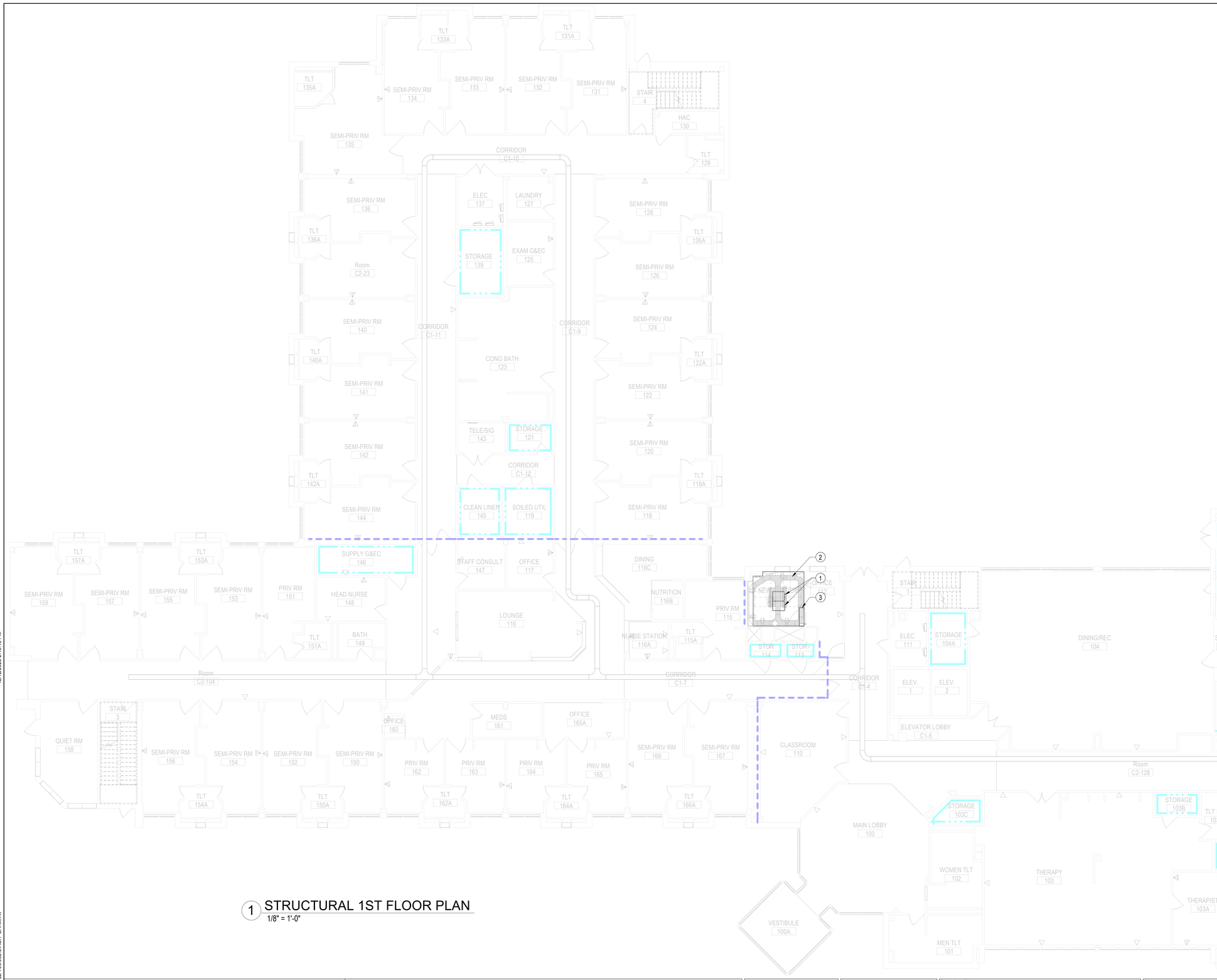

1 STRUCTURAL 1ST FLOOR PLAN
1/8" = 1'-0"

SHEET NOTES:

1. (N) FLOOR MOUNTED TELECOM RACK. SEE DETAIL 11/00-S503 OR 12/00-S503
2. (N) CABLE TRAY SUPPORT, SEE DETAIL 1/00-S503 OR 3/00-S503
3. PROVIDE METAL STUD BACKING AT (N) WALL MOUNTED SPLIT SYSTEM UNIT PER DETAIL 10/00-S503. SEE MECH. DRAWINGS FOR UNIT LOCATION

GENERAL NOTES:

1. FIELD VERIFY EXISTING CONDITIONS.

PARTITION LEGEND

- FIRE BARRIER, 2 HR
- FIRE BARRIER, 1 HR
- SMOKE BARRIER, 1/2 HR
- SMOKE RESISTIVE HAZARDOUS
- PATIENT SUIT/ NON SLEEPING

PLAN NORTH N

1/8" = 1'-0" SCALE 5 0 5 10 15 20 FEET

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VA U.S. Department of Veterans Affairs

Drawing Title: STRUCTURAL 1ST FLOOR PLAN	Phase: FINAL BID DOCUMENTS	Project Title: EHRM INFRASTRUCTURE UPGRADES	Project Number: 637-22-700
			Building Number: BLDG 62
Approved: FOR OFFICIAL USE ONLY		Location: 1100 TUNNEL ROAD ASHEVILLE, NC 28805	Drawing Number: 62-SF101
		Issue Date: 12.19.2025 / Checked: DU / Drawn: MBH	SHEET 487 of 559

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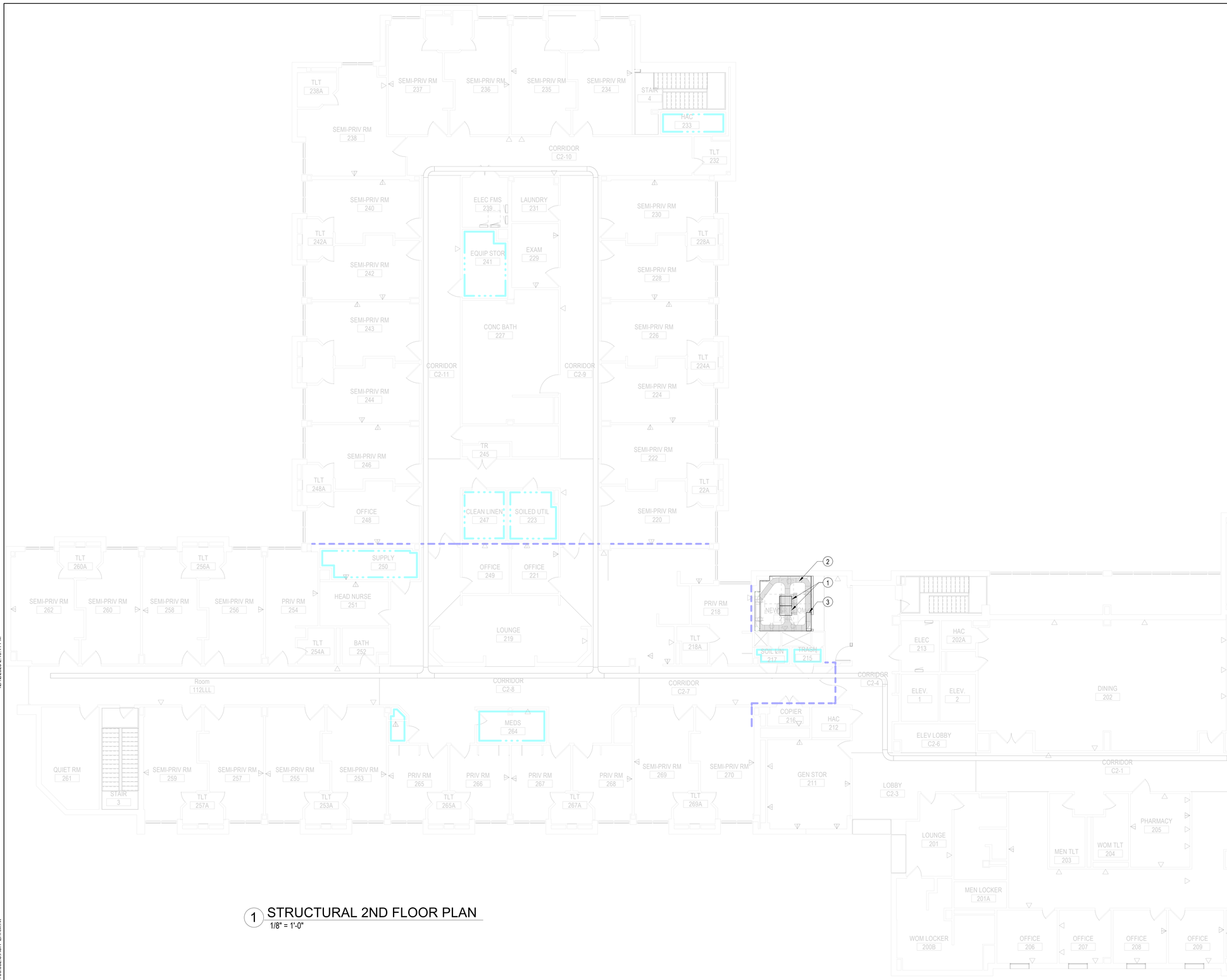

1 STRUCTURAL 2ND FLOOR PLAN
1/8" = 1'-0"

SHEET NOTES:

1. (N) FLOOR MOUNTED TELECOM RACK. SEE DETAIL 11/00-S503 OR 12/00-S503
2. (N) CABLE TRAY SUPPORT, SEE DETAIL 1/00-S503 OR 3/00-S503
3. PROVIDE METAL STUD BACKING AT (N) WALL MOUNTED SPLIT SYSTEM UNIT PER DETAIL 10/00-S503. SEE MECH. DRAWINGS FOR UNIT LOCATION

GENERAL NOTES:

1. FIELD VERIFY EXISTING CONDITIONS.

PARTITION LEGEND

- FIRE BARRIER, 2 HR
- FIRE BARRIER, 1 HR
- SMOKE BARRIER, 1/2 HR
- SMOKE RESISTIVE HAZARDOUS
- PATIENT SUIT/ NON SLEEPING

PLAN NORTH N

1/8" = 1'-0" SCALE 5 0 5 10 15 20 FEET

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Facilities Management Services

VA U.S. Department of Veterans Affairs

Drawing Title: STRUCTURAL 2ND FLOOR PLAN

Approved:

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Phase: FINAL BID DOCUMENTS

Project Title: EHRM INFRASTRUCTURE UPGRADES

Location: 1100 TUNNEL ROAD ASHEVILLE, NC 28805

Issue Date: 12.19.2025

Checked: DU

Drawn: MBH

Project Number: 637-22-700

Building Number: BLDG 62

Drawing Number: 62-SF102

SHEET 488 of 559

VA FORM 08 - 6231

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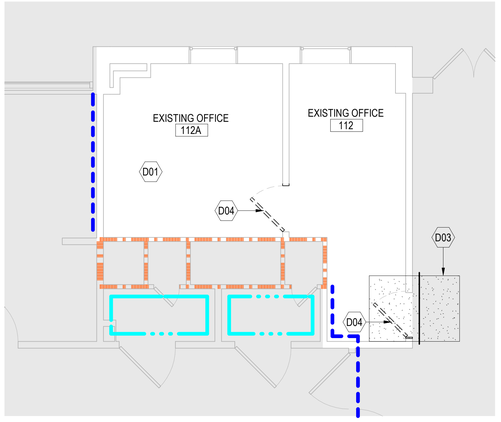
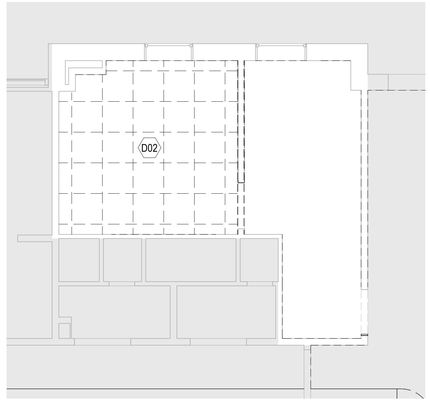
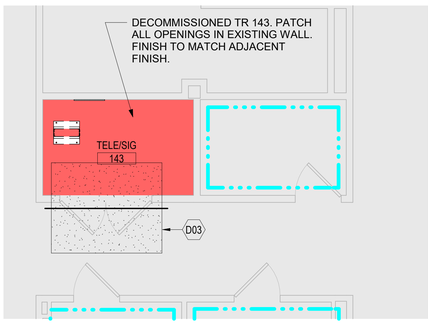


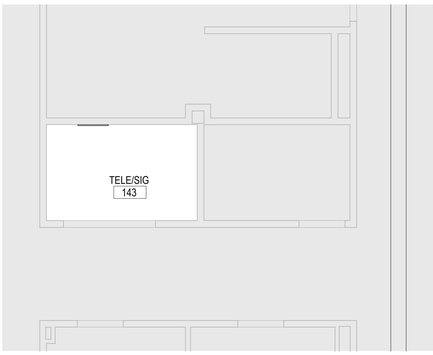
1 ENLARGED DEMO PLAN - 1ST FL (112 & 112A)
1/4" = 1'-0"



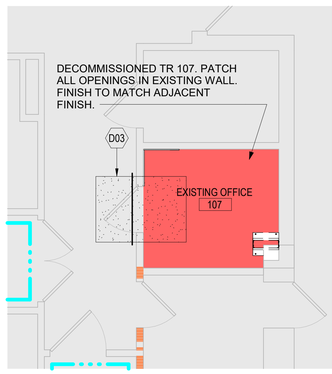
2 ENLARGED DEMO RCP - 1ST FL (112 & 112A)
1/4" = 1'-0"



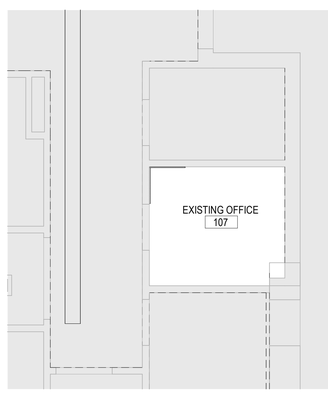
3 ENLARGED DEMO PLAN - 1ST FL. (143)
1/4" = 1'-0"



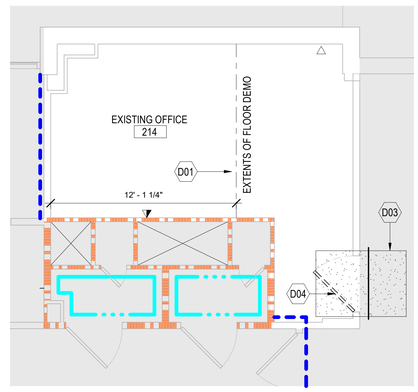
4 ENLARGED DEMO RCP - 1ST FL (143)
1/4" = 1'-0"



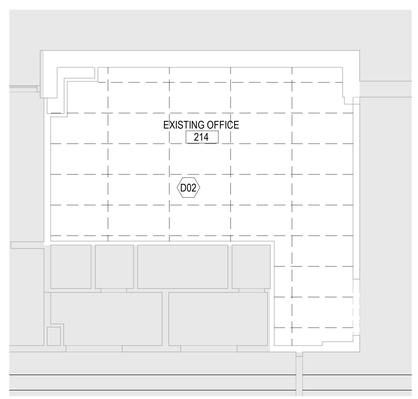
5 ENLARGED DEMO PLAN - 1ST FL (107)
1/4" = 1'-0"



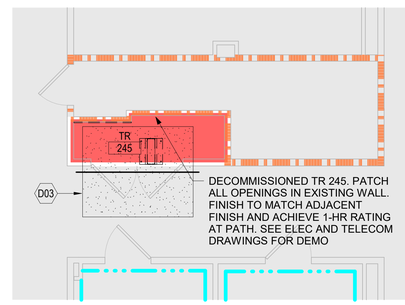
6 ENLARGED DEMO RCP - 1ST FL (107)
1/4" = 1'-0"



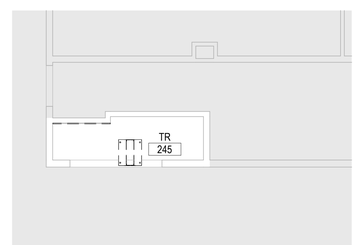
7 ENLARGED DEMO PLAN - 2ND FL (214)
1/4" = 1'-0"



8 ENLARGED DEMO RCP - 2ND FL (214)
1/4" = 1'-0"



9 ENLARGED DEMO PLAN - 2ND FL (245)
1/4" = 1'-0"



10 ENLARGED DEMO RCP - 2ND FL (245)
1/4" = 1'-0"

DEMO SHEET NOTES

1. THESE DOCUMENTS DO NOT INDICATE ALL MINOR AREAS AFFECTED BY SELECTIVE DEMOLITION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR QUANTIFYING THE MATERIAL AND LABOR COSTS TO DEMOLISH, PATCH, REPAIR ADJACENT AREAS AFFECTED BY THE CONSTRUCTION INDICATED TO A "LIKE NEW" CONDITION.
2. COORDINATE WITH FIRE PROTECTION, MECHANICAL, ELECTRICAL, PLUMBING, TELECOMMUNICATIONS AND SECURITY PLANS FOR ADDITIONAL SELECTIVE DEMOLITION REQUIREMENTS NOT SHOWN ON THIS DRAWING.
3. SOME SHEET KEYNOTES LISTED BELOW MAY NOT APPLY TO THIS SHEET.
4. DIMENSIONS PRECEDED BY A TILDE (~) ARE APPROXIMATE, SUBJECT TO FIELD VERIFICATION.
5. ALL NEW INTERIOR PARTITIONS ARE TYPE 01, UNLESS OTHERWISE NOTED.

DEMO PLAN KEYNOTES

KEY TAG	DESCRIPTION
A01	STATIC DISSIPATING FLUID-APPLIED ESD EPOXY FLOORING
A02	EXTEND FULL-HEIGHT PARTITIONS TO DECK (VERIFY IN FIELD)
A03	4'-0" x 8'-0" AC GRADE 3/4" TRADE SIZE PLYWOOD BACKBOARD PAINTED WITH TWO COATS OF FIRE RESISTANT BRIGHT HIGH-GLOSS WHITE PAINT
A04	12" DEDICATED SPACE TO ACCOMMODATE SERVICE PROVIDER, SECURITY, VIDEO, ETC. EQUIPMENT MOUNTED TO BACKBOARDS
A05	DOOR AS SCHEDULED, REFER TO DOOR SCHEDULE
A06	BASE TRIM AS SCHEDULED, REFER TO AE401
A07	PROVIDE A RETROFIT SEMI RECESSED FEC WITH A DRY AGENT FIRE EXTINGUISHER WITHIN 75' FROM TR BUT NOT IN TR. VA TO VERIFY AND FINALIZE THE FINAL LOCATION OF THE FEC.
A08	NEW METAL STUD PARTITION TO DECK
A11	NEW ACT SYSTEM
A12	CARD READER, MOUNT 3'-6" TO B.O. READER. SEE TELECOMMUNICATIONS DRAWINGS
B25	PATCH AND REPAIR EXTERIOR WALL AT NEW MECHANICAL PENETRATIONS
D01	REMOVE EXISTING FLOORING. PREP FLOOR TO RECEIVE FLOOR FINISH SPECIFIED
D02	REMOVE EXISTING CEILING, CEILING SUPPORT, ALL FASTENERS, LIGHTING FIXTURES, VENTS, AND MEANS OF ATTACHMENT BACK TO STRUCTURE
D03	PROVIDE WALK OFF MATS AND PLASTIC SHEETING (VISQUEEN) AT CONSTRUCTION AREAS.
D04	REMOVE DOOR AND FRAME, SALVAGE ALL DOOR HARDWARE AND TURN OVER TO VA. VERIFY FRAMING AND PROVIDE MODIFICATIONS NECESSARY IF DOOR INCREASES IN SIZE. PATCH ADJACENT FINISHES TO MATCH EXISTING. PAINT AFFECTED WALL TO CLOSEST CORNER
E01	ELECTRICAL EQUIPMENT, SEE ELECTRICAL DRAWINGS
E02	LIGHTING FIXTURES, SEE ELECTRICAL DRAWINGS
M01	MECHANICAL EQUIPMENT, SEE MECHANICAL DRAWINGS
T01	BONDING BUS BAR, SEE TELECOMMUNICATIONS DRAWINGS
T03	TELECOMMUNICATIONS RACK SYSTEMS, SEE TELECOMMUNICATIONS DRAWINGS
T04	HORIZONTAL CABLE TRAY, SEE TELECOMMUNICATIONS DRAWINGS

DEMOLITION LEGEND

- OUT OF SCOPE AREAS, COORDINATE WITH FIRE PROTECTION, MECHANICAL, ELECTRICAL, PLUMBING, TELECOMMUNICATIONS, AND SECURITY PLANS FOR ADDITIONAL REQUIREMENTS WITHIN THIS AREA
- REMOVE CEILING AND ASSOCIATED SUPPORT AND SEISMIC BRACING, FIXTURES, AND ACCESSORIES, TYPICAL WITHIN DEMOLITION BOUNDARY. PROTECT ADJACENT SURFACES AND EQUIPMENT. PREP ADJACENT SURFACES FOR CONSTRUCTION INDICATED
- REMOVE GYPSUM BOARD CEILING AND ASSOCIATED SUPPORT/SUSPENSION SYSTEM, FIXTURES, AND ACCESSORIES
- CONSTRUCTION TO REMAIN IN PLACE (SHOWN SOLID)
- CONSTRUCTION TO BE DEMOLISHED (SHOWN DASHED)
- TEMPORARY CONSTRUCTION BARRIER
- PATH OF EGRESS
- PLASTIC SHEETING (VISQUEEN)
- WALK-OFF MATS

PARTITION LEGEND

- FIRE BARRIER, 1 HR
- SMOKE BARRIER, 1/2 HR
- SMOKE RESISTIVE HAZARDOUS
- PATIENT SUIT/ NON SLEEPING

1/4" = 1'-0" SCALE 2 0 2 4 6 8 10 FEET

PLAN NORTH N

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Revisions:	Date:

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Facilities Management Services

VA U.S. Department of Veterans Affairs

Drawing Title: 1ST & 2ND FLOOR ENLARGED DEMO FLOOR PLANS & RCP'S

Approved:

FOR OFFICIAL USE ONLY

Phase: FINAL BID DOCUMENTS

FULLY SPRINKLERED

Project Title: EHRM INFRASTRUCTURE UPGRADES

Project Number: 637-22-700

Building Number: 62

Location: 1100 TUNNEL ROAD ASHEVILLE, NC 28805

Issue Date: 12.19.2025

Checked

Drawn

Drawing Number: 62-AD401

SHEET 489 of 559

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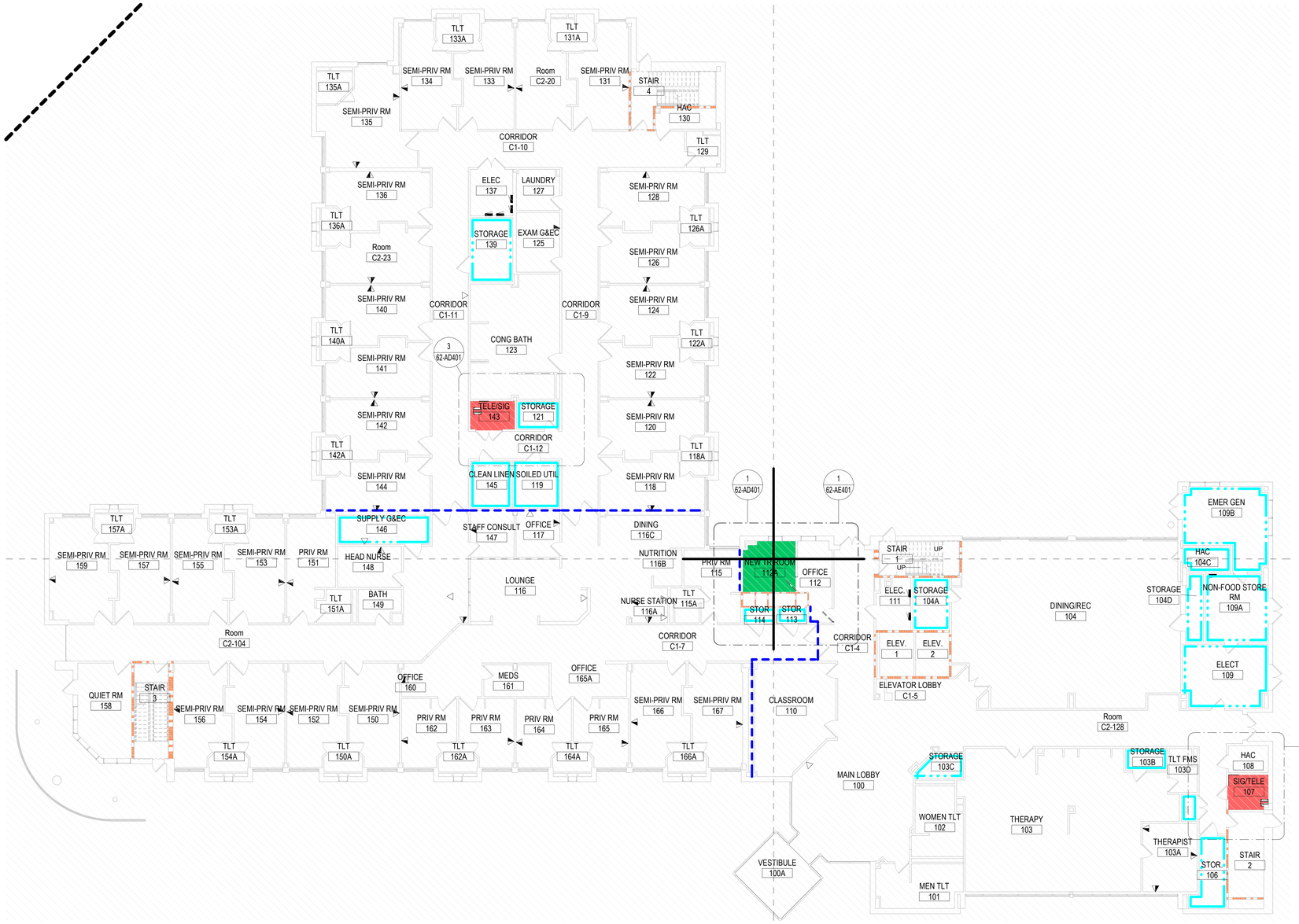
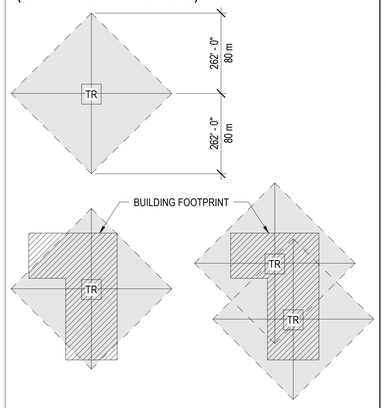


1 OVERAL FLOOR & DEMO PLAN - 1ST FLOOR
3/32" = 1'-0"

OVERALL PLAN SHEET NOTES

1. THERE SHALL BE A MINIMUM OF ONE STANDARDIZED TR PER FLOOR. ADDITIONAL STANDARD TELECOMMUNICATION ROOMS SHOULD BE PROVIDED WHEN
   - THE FLOOR AREA TO BE SERVED EXCEEDS 10,000 SF
   - THE HORIZONTAL DISTRIBUTION DISTANCE TO THE WORK AREA EXCEEDS 295' (ISTS 4.1.3)

HORIZONTAL CABLE DISTANCE STUDY (DIAMOND ANALYSIS)



NON-COMPLIANT EXAMPLE

COMPLIANT EXAMPLE

TR LEGEND

- TR TO BE DECOMMISSIONED
- EXISTING TR
- NEW TR
- EXPANDED TR
- EXISTING DATA CENTER
- NEW DATA CENTER
- NEW TELECOM ENCLOSURE (TE)
- ENTRANCE ROOM

PARTITION LEGEND

- FIRE BARRIER, 1 HR
- SMOKE BARRIER, 1/2 HR
- SMOKE RESISTIVE HAZARDOUS
- PATIENT SUIT/ NON SLEEPING

3/32" = 1'-0" SCALE 5 0 5 10 15 20 25 30 FEET

PLAN NORTH N

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Facilities Management Services

VA U.S. Department of Veterans Affairs

Drawing Title: OVERALL FLOOR & DEMO PLAN - 1ST FLOOR

Approved:

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Phase: FINAL BID DOCUMENTS

FULLY SPRINKLERED

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Drawn

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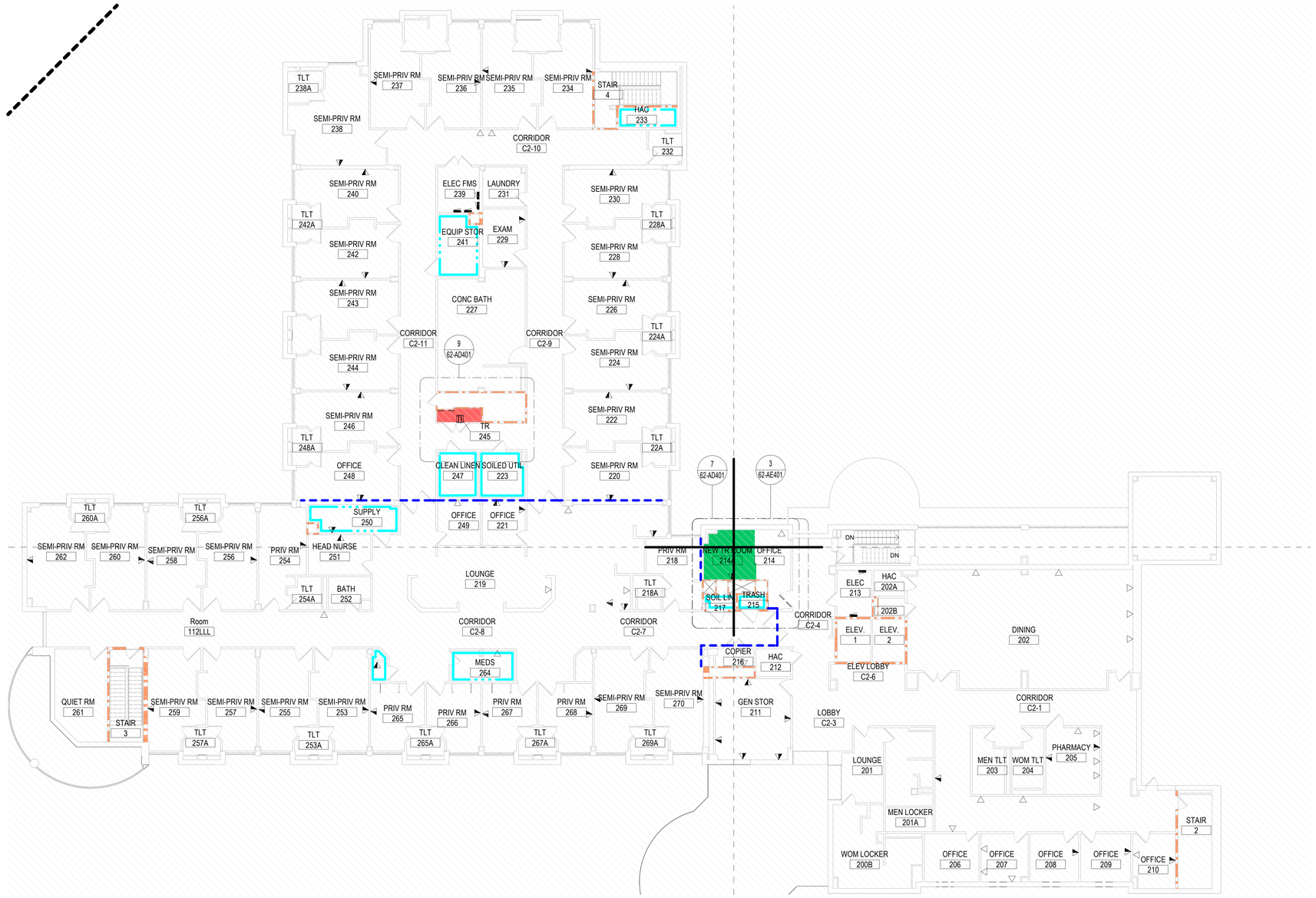


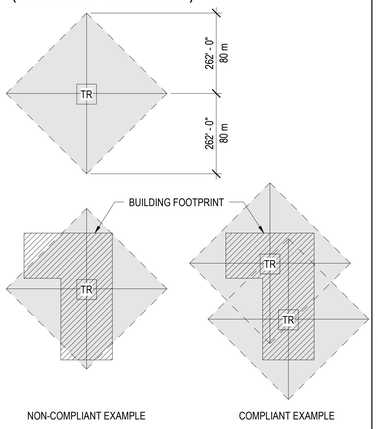
1 OVERALL FLOOR & DEMO PLAN - 2ND FLOOR

3/32" = 1'-0"

OVERALL PLAN SHEET NOTES

1. THERE SHALL BE A MINIMUM OF ONE STANDARDIZED TR PER FLOOR. ADDITIONAL STANDARD TELECOMMUNICATION ROOMS SHOULD BE PROVIDED WHEN
   - THE FLOOR AREA TO BE SERVED EXCEEDS 10,000 SF
   - THE HORIZONTAL DISTRIBUTION DISTANCE TO THE WORK AREA EXCEEDS 295' (ISTS 4.1.3)

HORIZONTAL CABLE DISTANCE STUDY (DIAMOND ANALYSIS)



NON-COMPLIANT EXAMPLE

COMPLIANT EXAMPLE

TR LEGEND

- TR TO BE DECOMMISSIONED
- EXISTING TR
- NEW TR
- EXPANDED TR
- EXISTING DATA CENTER
- NEW DATA CENTER
- NEW TELECOM ENCLOSURE (TE)
- ENTRANCE ROOM

PARTITION LEGEND

- FIRE BARRIER, 1 HR
- SMOKE BARRIER, 1/2 HR
- SMOKE RESISTIVE HAZARDOUS
- PATIENT SUIT/ NON SLEEPING

PLAN NORTH

3/32" = 1'-0" 5 0 5 10 15 20 25 30 SCALE FEET

FINAL BID DOCUMENTS

Revisions:	Date:

ARCHITECT/ENGINEER OF RECORD

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LICENSED ARCHITECT GENE HAMILTON KING No. C-19576 EXP. 07-31-27 STATE OF CALIFORNIA

Facilities Management Services

VA U.S. Department of Veterans Affairs

Drawing Title: OVERALL FLOOR & DEMO PLAN - 2ND FLOOR	Phase: FINAL BID DOCUMENTS	Project Title: EHRM INFRASTRUCTURE UPGRADES	Project Number: 637-22-700
			Building Number: 62
Approved: FOR OFFICIAL USE ONLY	FULLY SPRINKLERED	Location: 1100 TUNNEL ROAD ASHEVILLE, NC 28805	Drawing Number: 62-AE102
		Issue Date: 12.19.2025 / Checked / Drawn	SHEET 491 of 559

VA FORM 08 - 6231

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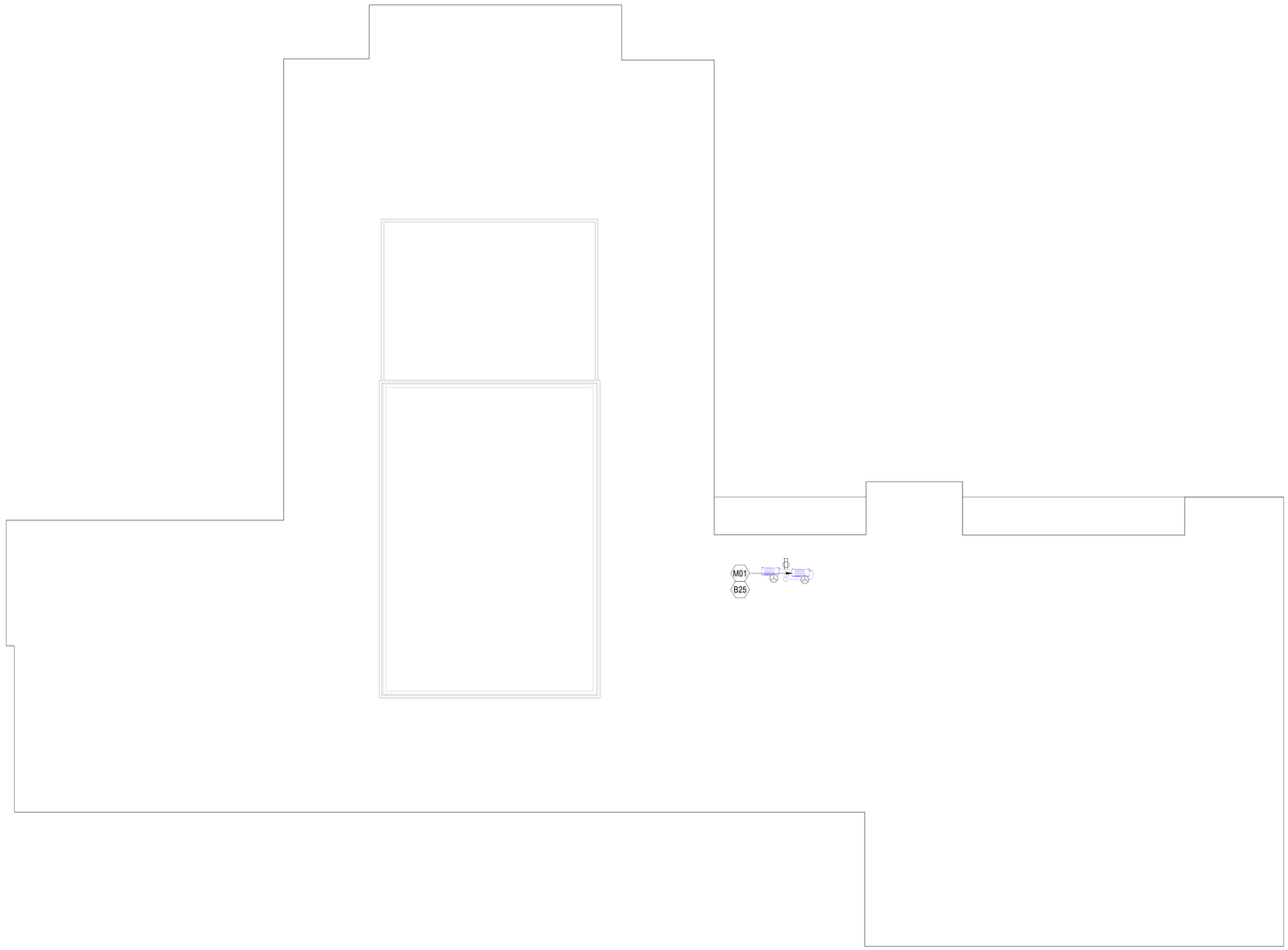

1 OVERALL DEMO ROOF PLAN
3/32" = 1'-0"

OVERALL PLAN SHEET NOTES

1. THERE SHALL BE A MINIMUM OF ONE STANDARDIZED TR PER FLOOR. ADDITIONAL STANDARD TELECOMMUNICATION ROOMS SHOULD BE PROVIDED WHEN
   - THE FLOOR AREA TO BE SERVED EXCEEDS 10,000 SF
   - THE HORIZONTAL DISTRIBUTION DISTANCE TO THE WORK AREA EXCEEDS 295' (ISTS 4.1.3)

DEMO PLAN KEYNOTES

KEY TAG	DESCRIPTION
B25	PATCH AND REPAIR EXTERIOR WALL AT NEW MECHANICAL PENETRATIONS
M01	MECHANICAL EQUIPMENT, SEE MECHANICAL DRAWINGS

3/32" = 1'-0" 5 0 5 10 15 20 25 30 SCALE FEET

PLAN NORTH N

FINAL BID DOCUMENTS

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Facilities Management Services

VA U.S. Department of Veterans Affairs

Drawing Title: OVERALL DEMO ROOF PLAN

Approved:

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Phase: FINAL BID DOCUMENTS

FULLY SPRINKLERED

Project Title: EHRM INFRASTRUCTURE UPGRADES

Location: 1100 TUNNEL ROAD ASHEVILLE, NC 28805

Issue Date: **12.19.2025**

Checked

Drawn

Project Number: 637-22-700

Building Number: 62

Drawing Number: 62-AE103

SHEET 492 of 559

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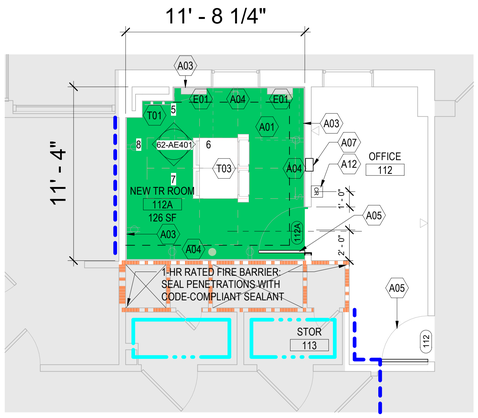
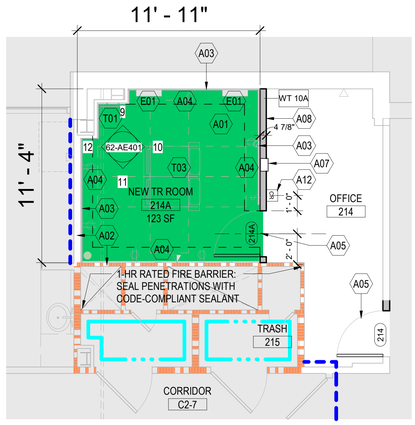
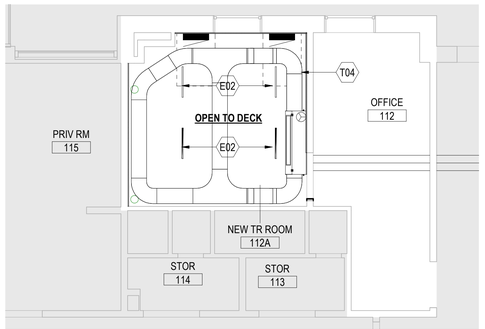


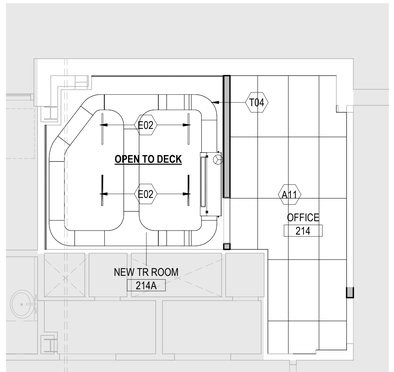
1 ENLARGED FLOOR PLAN - 1ST FL (112A)
1/4" = 1'-0"



3 ENLARGED FLOOR PLAN - 2ND FL (214A)
1/4" = 1'-0"



2 ENLARGED RCP -1ST FL (112A)
1/4" = 1'-0"

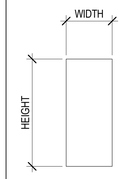


4 ENLARGED RCP - 2ND FL (214A)
1/4" = 1'-0"

DOOR SCHEDULE

MARK	FROM	TO	DOOR TYPE	DOOR WIDTH	DOOR HEIGHT	DOOR FINISH	FRAME TYPE	FRAME FINISH	FIRE RATING	HW NO	DETAILS HEAD	DETAILS JAMB	DETAILS THRESHOLD	COMMENT
1ST FLOOR														
112	CORRIDOR	OFFICE	1	3' - 0"	8' - 0"	-	A	P		3E	B5/AE511	D5/AE511	D3/AE511	
112A	NEW TR	OFFICE	1	3' - 0"	8' - 0"	-	A	P		SDO-218	B5/AE511	D5/AE511	D3/AE511	CARD READER
2ND FLOOR														
214	NEW TR	OFFICE	1	3' - 0"	8' - 0"	-	A	P		SDO-218	B5/AE511	D5/AE511	D3/AE511	
214A	OFFICE	CORRIDOR	1	3' - 0"	8' - 0"	-	A	P		3E	B5/AE511	D5/AE511	D3/AE511	CARD READER

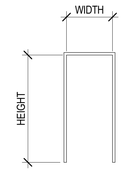
DOOR TYPES



TYPE 1

- SOLID CORE WOOD
- RED OAK VENEER
- FACTORY FINISH

FRAME TYPES



TYPE A

- 1.3 mm (0.053 INCH) GALV HM FRAME
- HOSPITAL TYPE STOPS
- PAINTED FRAME

ROOM FINISH SCHEDULE

RM NO	RM NAME	FLR	BASE MATL	BASE HT	WALLS NORTH MATL	WALLS NORTH FIN	WALLS EAST MATL	WALLS EAST FIN	WALLS SOUTH MATL	WALLS SOUTH FIN	WALLS WEST MATL	WALLS WEST FIN	CEILING MATL	CEILING FIN	CEILING HT	COMMENTS
1ST FLOOR																
112A	NEW TR ROOM	EPY/SD	RB	6"	GWB / PLYWD	P	GWB / PLYWD	P	GWB	P	GWB / PLYWD	P	EXP	P	N/A	VERIFY CLG. HEIGHT
2ND FLOOR																
214A	NEW TR ROOM	EPY/SD	RB	6"	GWB / PLYWD	P	GWB / PLYWD	P	GWB	P	GWB /PLYWD	P	EXP	P	N/A	VERIFY CLG. HEIGHT

ABBREVIATIONS USED IN DOOR AND ROOM FINISH SCHEDULES:

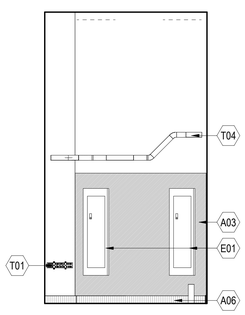
ADO	AUTOMATIC DOOR OPERATOR
AF	ACCESS FLOORING
AT	ACOUSTICAL CEILING (TILE)
AT (SP)	(SP) ACOUSTICAL CEILING (WITH SPRAYED PLASTIC FINISH)
BIM	BUILDING INFORMATION MODEL
C	CONCRETE
CBB	CONCRETE BACKER BOARD
CLR	COLOR
CMU	CONCRETE MASONRY UNITS (UNIT MASONRY)
CP	CARPET (WITHOUT CUSHION BROADLOOM)
CPT	CARPET TILE
CT	CERAMIC TILE
EFTR	EXISTING FINISH TO REMAIN
EPY	EPOXY FLOORING
EX	EXISTING
EXP	EXPOSED
FIN	FINISH
GL	GLASS (GLAZING)
GWB	GYPSUM WALLBOARD SYSTEMS
HM	HOLLOW METAL
HT	HEIGHT
HW	HARDWARE SET (FINISH OR BUILDER'S HARDWARE)
LN	LINOLEUM
LVT	LUXURY VINYL TILE
MAT	CARPET MAT (WALK-OFF MAT)
MATL	MATERIAL
NO	NUMBER
NR	NON-RATED
PC	PRECAST (ARCHITECTURAL PRECAST PAVERS)
P	PAINT (EXTERIOR AND INTERIOR; TRANSPARENT, SEMI-TRANSPARENT, AND OPAQUE FINISHES)
PLYWD	PLYWOOD
PR	PAIR
PRB	PROFILE BASE
PT	PORCELAIN TILE (FLOOR AND BASE)
QT	QUARRY TILE
RAF	RESILIENT ATHLETIC FLOORING
RB	RESILIENT BASE (RUBBER OR VINYL WITH FACTORY FORMED INSIDE AND OUTSIDE CORNERS)
RES	RESINOUS FLOORING
RES-W	RESINOUS/EPOXY WALL/CEILING RF RUBBER FLOORING
RRF	RAISED RUBBER FLOORING
RSF	RESILIENT SHEET FLOORING (CHEMICALLY WELDED SEAMS)
RWC	RIGID VINYL WALL COVERING (WALL PROTECTION - ROLL OR SHEET)
S	SOLID SURFACE
SC	HIGH BUILD GLAZED COATING (SPECIAL COATING)
SD	STATIC DISSIPATIVE
SGL	SINGLE
SP	SPECIAL FACED
ST	STONE (CAST)
SVT	SOLID VINYL FLOOR TILE
TER	TERRAZZO, POURED
TT	TERRAZZO TILE (PLASTIC MATRIX)
VT	VINYL TILE (HIGH CONTENT VINYL)
VWC	VINYL WALL COVERING
WSCT	WAINSCOT
WD	WOOD
WSF	WELDED SEAM SHEET FLOORING (HEAT WELDED WITH ROD)
SS	STAINLESS STEEL

ENLARGED PLAN SHEET NOTES

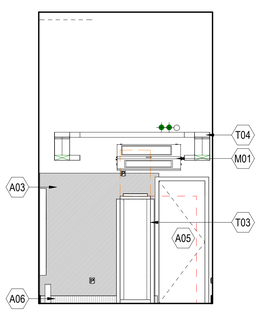
1. THESE DOCUMENTS DO NOT INDICATE ALL MINOR AREAS AFFECTED BY SELECTIVE DEMOLITION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR QUANTIFYING THE MATERIAL AND LABOR COSTS TO DEMOLISH, PATCH, REPAIR ADJACENT AREAS AFFECTED BY THE CONSTRUCTION INDICATED TO A "LIKE NEW" CONDITION.
2. COORDINATE WITH FIRE PROTECTION, MECHANICAL, ELECTRICAL, PLUMBING, TELECOMMUNICATIONS AND SECURITY PLANS FOR ADDITIONAL SELECTIVE DEMOLITION REQUIREMENTS NOT SHOWN ON THIS DRAWING.
3. SOME SHEET KEYNOTES LISTED BELOW MAY NOT APPLY TO THIS SHEET.
4. DIMENSIONS PRECEDED BY A TILDE (~) ARE APPROXIMATE, SUBJECT TO FIELD VERIFICATION.
5. ALL NEW INTERIOR PARTITIONS ARE TYPE 01, UNLESS OTHERWISE NOTED.

ENLARGED PLAN KEYNOTES

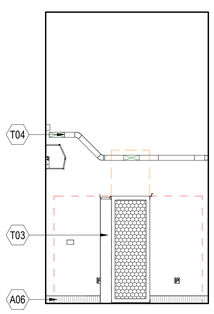
KEY TAG	DESCRIPTION
A01	STATIC DISSIPATING FLUID-APPLIED ESD EPOXY FLOORING
A02	EXTEND FULL-HEIGHT PARTITIONS TO DECK (VERIFY IN FIELD)
A03	4'-0" x 8'-0" AC GRADE 3/4" TRADE SIZE PLYWOOD BACKBOARD PAINTED WITH TWO COATS OF FIRE RESISTANT BRIGHT HIGH-GLOSS WHITE PAINT
A04	12" DEDICATED SPACE TO ACCOMMODATE SERVICE PROVIDER, SECURITY, VIDEO, ETC. EQUIPMENT MOUNTED TO BACKBOARDS
A05	DOOR AS SCHEDULED, REFER TO DOOR SCHEDULE
A06	BASE TRIM AS SCHEDULED, REFER TO AE401
A07	PROVIDE A RETROFIT SEMI RECESSED FEC WITH A DRY AGENT FIRE EXTINGUISHER WITHIN 75' FROM TR BUT NOT IN TR. VA TO VERIFY AND FINALIZE THE FINAL LOCATION OF THE FEC.
A08	NEW METAL STUD PARTITION TO DECK
A11	NEW ACT SYSTEM
A12	CARD READER, MOUNT 3'-6" TO B.O. READER. SEE TELECOMMUNICATIONS DRAWINGS
B25	PATCH AND REPAIR EXTERIOR WALL AT NEW MECHANICAL PENETRATIONS
D01	REMOVE EXISTING FLOORING. PREP FLOOR TO RECEIVE FLOOR FINISH SPECIFIED
D02	REMOVE EXISTING CEILING, CEILING SUPPORT, ALL FASTENERS, LIGHTING FIXTURES, VENTS, AND MEANS OF ATTACHMENT BACK TO STRUCTURE
D03	PROVIDE WALK OFF MATS AND PLASTIC SHEETING (VISQUEEN) AT CONSTRUCTION AREAS.
D04	REMOVE DOOR AND FRAME, SALVAGE ALL DOOR HARDWARE AND TURN OVER TO VA. VERIFY FRAMING AND PROVIDE MODIFICATIONS NECESSARY IF DOOR INCREASES IN SIZE. PATCH ADJACENT FINISHES TO MATCH EXISTING. PAINT AFFECTED WALL TO CLOSEST CORNER
E01	ELECTRICAL EQUIPMENT, SEE ELECTRICAL DRAWINGS
E02	LIGHTING FIXTURES, SEE ELECTRICAL DRAWINGS
M01	MECHANICAL EQUIPMENT, SEE MECHANICAL DRAWINGS
T01	BONDING BUS BAR, SEE TELECOMMUNICATIONS DRAWINGS
T03	TELECOMMUNICATIONS RACK SYSTEMS, SEE TELECOMMUNICATIONS DRAWINGS
T04	HORIZONTAL CABLE TRAY, SEE TELECOMMUNICATIONS DRAWINGS



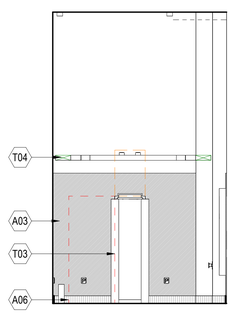
5 TR 112A N
1/4" = 1'-0"



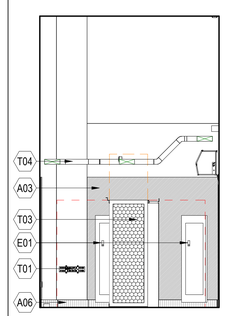
6 TR 112A E
1/4" = 1'-0"



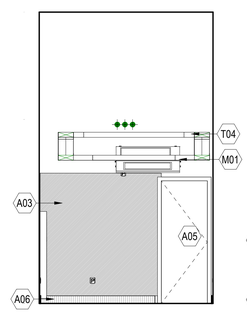
7 TR 112A S
1/4" = 1'-0"



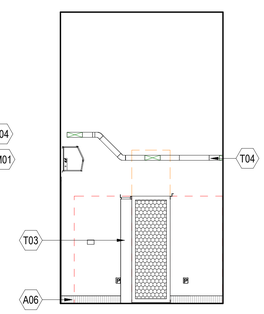
8 TR 112A W
1/4" = 1'-0"



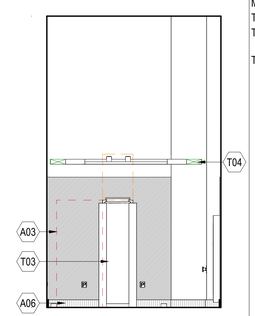
9 TR 214 N
1/4" = 1'-0"



10 TR - 214 E
1/4" = 1'-0"



11 TR - 214 S
1/4" = 1'-0"



12 TR - 214 W
1/4" = 1'-0"

PARTITION LEGEND

- FIRE BARRIER, 1 HR
- SMOKE BARRIER, 1/2 HR
- SMOKE RESISTIVE HAZARDOUS
- PATIENT SUIT/ NON SLEEPING

PLAN NORTH N

1/4" = 1'-0" 2 0 2 4 6 8 10 SCALE FEET

FINAL BID DOCUMENTS

Revisions:	Date:

ARCHITECT/ENGINEER OF RECORD

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Facilities Management Services

VA U.S. Department of Veterans Affairs

Drawing Title: 1ST & 2ND FL. - ENLARGED FLOOR PLANS, RCP'S, & INT. ELEVATIONS

Approved:

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Phase: FINAL BID DOCUMENTS

FULLY SPRINKLERED

Project Title: EHRM INFRASTRUCTURE UPGRADES

Project Number: 637-22-700

Building Number: 62

Location: 1100 TUNNEL ROAD ASHEVILLE, NC 28805

Issue Date: 12.19.2025

Checked

Drawn

Drawing Number: 62-AE401

SHEET 493 of 559

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1 FIRE SUPPRESSION 1ST FLOOR PLAN
1/8" = 1'-0"

2 FIRE SUPPRESSION 112/112A ENLARGED PLAN
1/4" = 1'-0"

SHEET NOTES:

1. HATCHING INDICATES SCOPE OF WORK. RELOCATE EXISTING SPRINKLERS AS REQUIRED TO ACCOMMODATE RECONFIGURATION OF WALLS AND NEW WORK BY OTHER TRADES TO PROVIDE COMPLIANT COVERAGE. REPLACE PENDENT SPRINKLERS WITH UPRIGHT SPRINKLERS AS REQUIRED TO ACCOMMODATE THE REMOVAL OF EXISTING CEILING. UTILIZE EXISTING OUTLET FROM BRANCHLINE WHICH SERVES PENDENT SPRINKLER TO SERVE RELOCATED UPRIGHT SPRINKLER.

GENERAL NOTES:

PARTITION LEGEND

- FIRE BARRIER, 2 HR
- FIRE BARRIER, 1 HR
- SMOKE BARRIER, 1/2 HR
- SMOKE RESISTIVE HAZARDOUS
- PATIENT SUIT/ NON SLEEPING

1/8" = 1'-0" SCALE 5 0 5 10 15 20 FEET

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NORTH CAROLINA PROFESSIONAL SEAL ENGINEER MICHAEL B. LOVE
12-18-2025

Facilities Management Services

VA U.S. Department of Veterans Affairs

Drawing Title	Phase	Project Title	Project Number
FIRE SUPPRESSION 1ST FLOOR PLAN	FINAL BID DOCUMENTS	EHRM INFRASTRUCTURE UPGRADES	637-22-700
Approved:		Location: 1100 TUNNEL ROAD ASHEVILLE, NC 28805	Building Number: BLDG 62
FOR OFFICIAL USE ONLY		Issue Date: 12.19.2025 / Checked / Drawn	Drawing Number: 62-FX101
			SHEET 494 of 559

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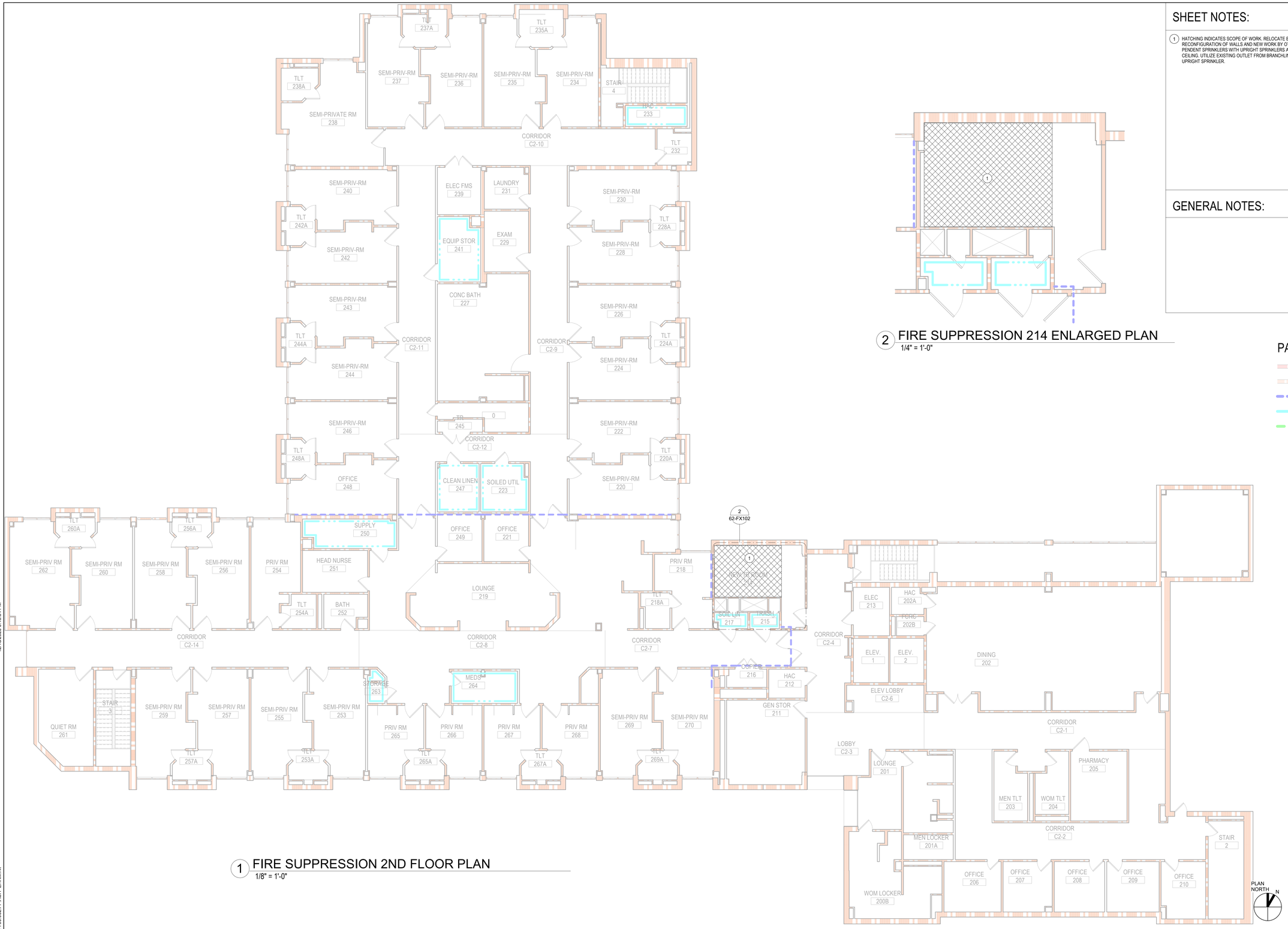

1 FIRE SUPPRESSION 2ND FLOOR PLAN
1/8" = 1'-0"

2 FIRE SUPPRESSION 214 ENLARGED PLAN
1/4" = 1'-0"

SHEET NOTES:

1. HATCHING INDICATES SCOPE OF WORK. RELOCATE EXISTING SPRINKLERS AS REQUIRED TO ACCOMMODATE RECONFIGURATION OF WALLS AND NEW WORK BY OTHER TRADES TO PROVIDE COMPLIANT COVERAGE. REPLACE PENDENT SPRINKLERS WITH UPRIGHT SPRINKLERS AS REQUIRED TO ACCOMMODATE THE REMOVAL OF EXISTING CEILING. UTILIZE EXISTING OUTLET FROM BRANCHLINE WHICH SERVES PENDENT SPRINKLER TO SERVE RELOCATED UPRIGHT SPRINKLER.

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Drawing Title	Phase	Project Title	Project Number
FIRE SUPPRESSION 2ND FLOOR PLAN	FINAL BID DOCUMENTS	EHRM INFRASTRUCTURE UPGRADES	637-22-700
			Building Number: BLDG 62
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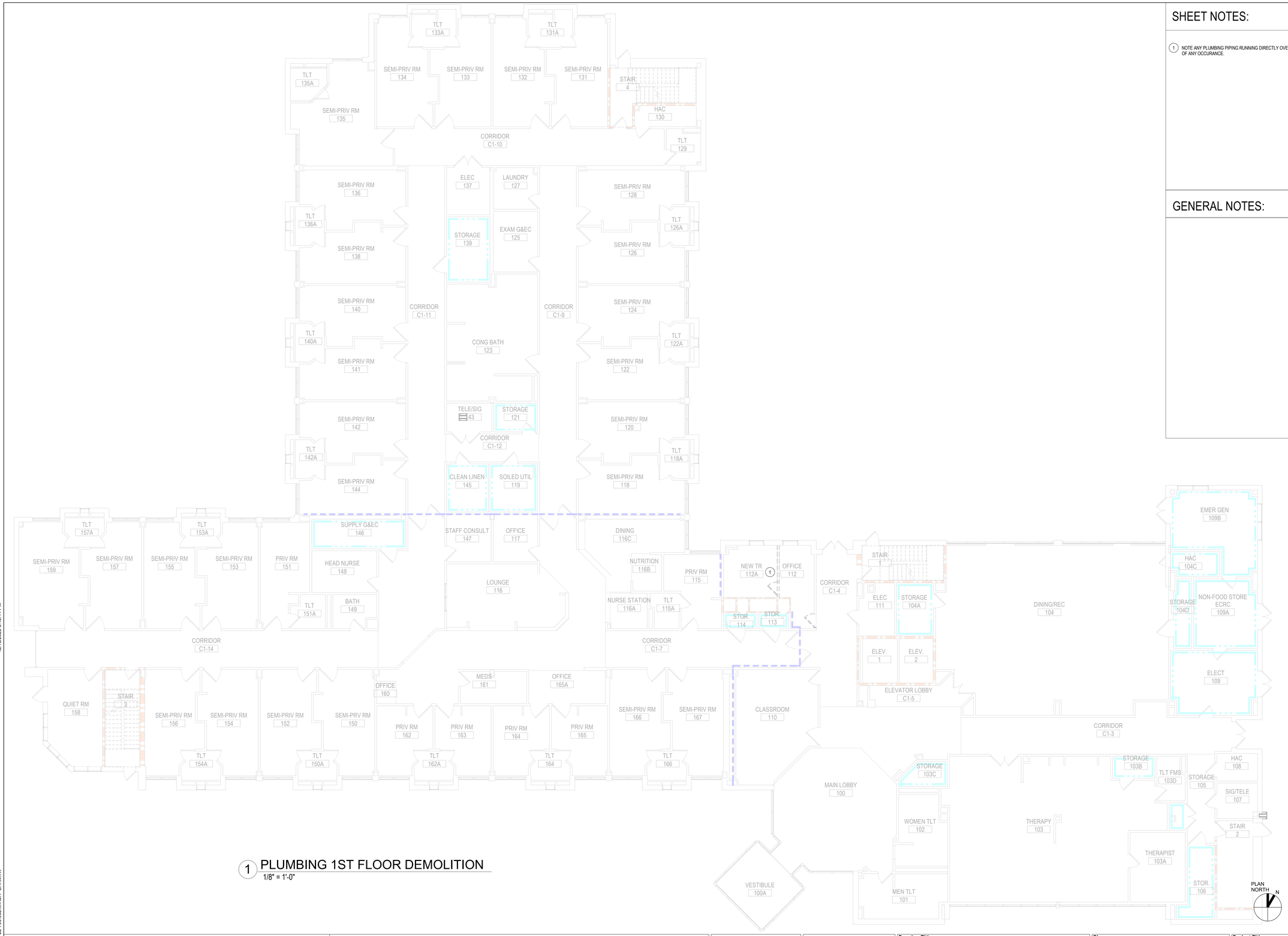

1 PLUMBING 1ST FLOOR DEMOLITION
1/8" = 1'-0"

SHEET NOTES:

1. NOTE ANY PLUMBING PIPING RUNNING DIRECTLY OVER THE LOCATION OF THE NEW TELECOM RACKS AND INFORM THE EOR OF ANY OCCURANCE.

GENERAL NOTES:

1/8" = 1'-0" SCALE — 5 0 5 10 15 20 FEET

FINAL BID DOCUMENTS

Revisions:	Date:

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12/18/2025

Facilities Management Services

VA U.S. Department of Veterans Affairs

Drawing Title: PLUMBING 1ST FLOOR DEMOLITION PLAN	Phase: FINAL BID DOCUMENTS	Project Title: EHRM INFRASTRUCTURE UPGRADES	Project Number: 637-22-700
Approved: FOR OFFICIAL USE ONLY			Building Number: BLDG 62
		Location: 1100 TUNNEL ROAD ASHEVILLE, NC 28805	Drawing Number: 62-PD101
		Issue Date: 12.19.2025 / Checked / Drawn	SHEET 496 of 559

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12/18/2025 5:45:11 PM

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1 PLUMBING 2ND FLOOR DEMOLITION
1/8" = 1'-0"

SHEET NOTES:

1. NOTE ANY PLUMBING PIPING RUNNING DIRECTLY OVER THE LOCATION OF THE NEW TELECOM RACKS AND INFORM THE EOR OF ANY OCCURANCE.

GENERAL NOTES:

1/8" = 1'-0" SCALE — 5 0 5 10 15 20 FEET

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Drawing Title	PLUMBING 2ND FLOOR DEMOLITION PLAN
Phase	FINAL BID DOCUMENTS
Project Title	EHRM INFRASTRUCTURE UPGRADES
Project Number	637-22-700
Building Number	BLDG 62
Approved:	
Location	1100 TUNNEL ROAD ASHEVILLE, NC 28805
Drawing Number	62-PD102
Issue Date	12.19.2025
Checked	
Drawn	

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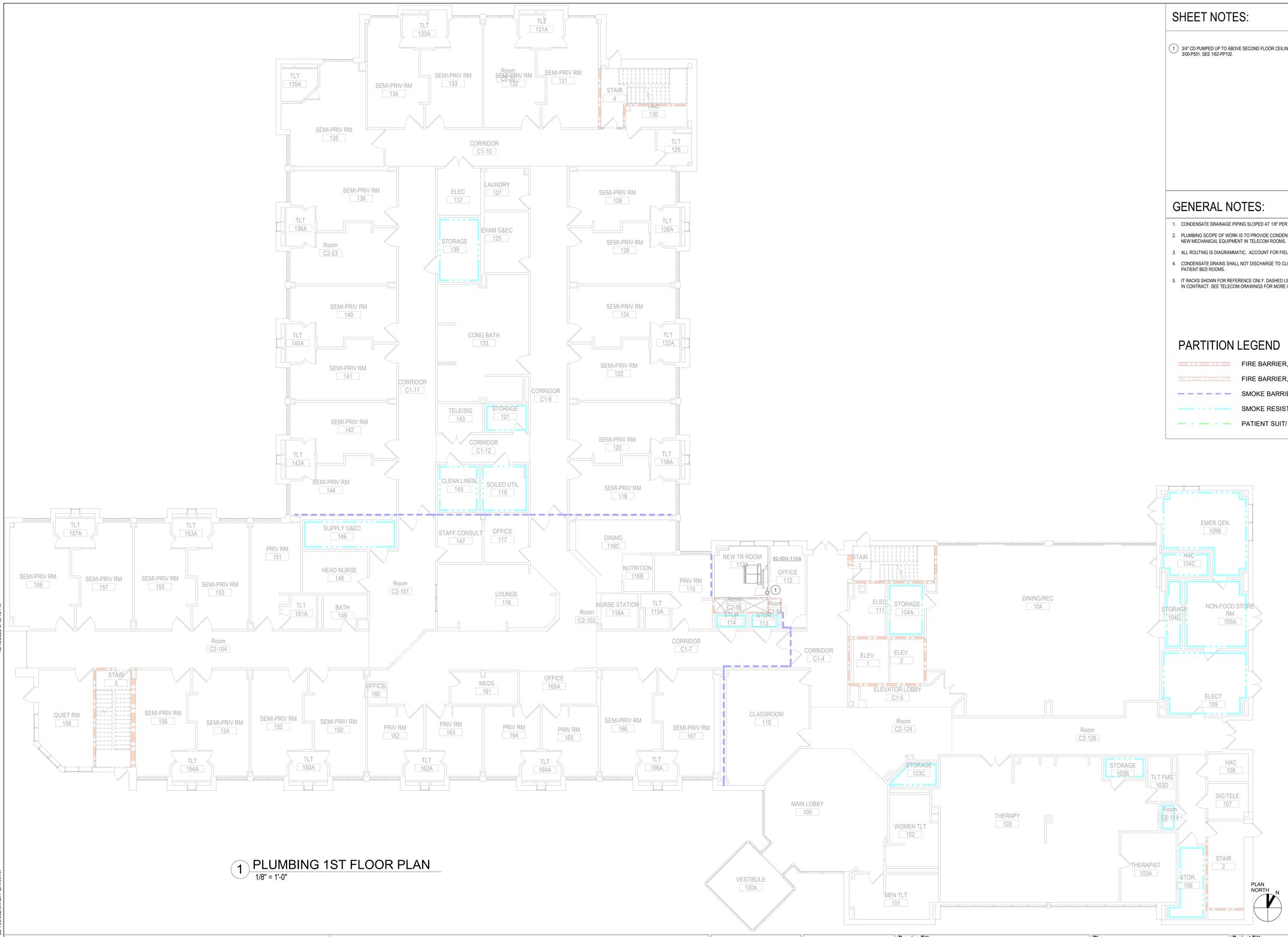

1 PLUMBING 1ST FLOOR PLAN
1/8" = 1'-0"

SHEET NOTES:

1. 3/4" CD PUMPED UP TO ABOVE SECOND FLOOR CEILING AND GRAVITY SLOPED TO DISCHARGE TO EXISTING MOP SINK. SEE DETAIL 3/00-P501. SEE 1/62-PP102.

GENERAL NOTES:

1. CONDENSATE DRAINAGE PIPING SLOPED AT 1/8" PER FOOT.
2. PLUMBING SCOPE OF WORK IS TO PROVIDE CONDENSATE DRAIN DRAINAGE, WHEN REQUIRED, FOR ALL NEW MECHANICAL EQUIPMENT IN TELECOM ROOMS.
3. ALL ROUTING IS DIAGRAMMATIC. ACCOUNT FOR FIELD CONDITIONS DURING CONSTRUCTION.
4. CONDENSATE DRAINS SHALL NOT DISCHARGE TO CLINIC/ EXAM/TREATMENT SINKS OR LAVATORIES IN PATIENT BED ROOMS.
5. IT RACKS SHOWN FOR REFERENCE ONLY. DASHED LINES INDICATE PLACEHOLDER FOR FUTURE RACK, NOT IN CONTRACT. SEE TELECOM DRAWINGS FOR MORE INFORMATION.

PARTITION LEGEND

- FIRE BARRIER, 2 HR
- FIRE BARRIER, 1 HR
- SMOKE BARRIER, 1/2 HR
- SMOKE RESISTIVE HAZARDOUS
- PATIENT SUIT/ NON SLEEPING

1/8" = 1'-0" SCALE 5 0 5 10 15 20 FEET

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VA U.S. Department of Veterans Affairs

Drawing Title: PLUMBING 1ST FLOOR PLAN	Phase: FINAL BID DOCUMENTS	Project Title: EHRM INFRASTRUCTURE UPGRADES	Project Number: 637-22-700
Approved: FOR OFFICIAL USE ONLY			Building Number: BLDG 62
		Location: 1100 TUNNEL ROAD ASHEVILLE, NC 28805	Drawing Number: 62-PP101
		Issue Date: 12.19.2025 / Checked: / Drawn:	SHEET 498 of 559

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1 PLUMBING 2ND FLOOR PLAN
1/8" = 1'-0"

SHEET NOTES:

1. 3/4" CD PUMPED UP TO ABOVE DROP CEILING. SEE DETAIL 3/00-P501.
2. 3/4" CD DOWN TO EXISTING MOP SINK. SEE DETAIL 3/00-P501.
3. 3/4" CD FROM IDU-112 ON FLOOR BELOW PUMPED UP TO ABOVE SECOND FLOOR CEILING. SEE 1/62-PP101. COMBINE COIL CONDENSATE DRAINAGE PIPING WITH THAT FROM IDU-214 AND GRAVITY SLOPE ABOVE CEILING TO DISCHARGE INTO EXISTING MOP SINK IN HAC.

GENERAL NOTES:

1. CONDENSATE DRAINAGE PIPING SLOPED AT 1/8" PER FOOT.
2. PLUMBING SCOPE OF WORK IS TO PROVIDE CONDENSATE DRAIN DRAINAGE, WHEN REQUIRED, FOR ALL NEW MECHANICAL EQUIPMENT IN TELECOM ROOMS.
3. ALL ROUTING IS DIAGRAMMATIC. ACCOUNT FOR FIELD CONDITIONS DURING CONSTRUCTION.
4. CONDENSATE DRAINS SHALL NOT DISCHARGE TO CLINIC/ EXAM/TREATMENT SINKS OR LAVATORIES IN PATIENT BED ROOMS.
5. IT RACKS SHOWN FOR REFERENCE ONLY. DASHED LINES INDICATE PLACEHOLDER FOR FUTURE RACK, NOT IN CONTRACT. SEE TELECOM DRAWINGS FOR MORE INFORMATION.

PARTITION LEGEND

- FIRE BARRIER, 2 HR
- FIRE BARRIER, 1 HR
- SMOKE BARRIER, 1/2 HR
- SMOKE RESISTIVE HAZARDOUS
- PATIENT SUIT/ NON SLEEPING

1/8" = 1'-0" SCALE — 5 0 5 10 15 20 FEET

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Drawing Title	Phase	Project Title	Project Number
PLUMBING 2ND FLOOR PLAN	FINAL BID DOCUMENTS	EHRM INFRASTRUCTURE UPGRADES	637-22-700
Approved:		Location: 1100 TUNNEL ROAD, ASHEVILLE, NC 28805	Building Number: BLDG 62
FOR OFFICIAL USE ONLY		Issue Date: 12.19.2025 / Checked / Drawn	Drawing Number: 62-PP102
			SHEET 499 of 559

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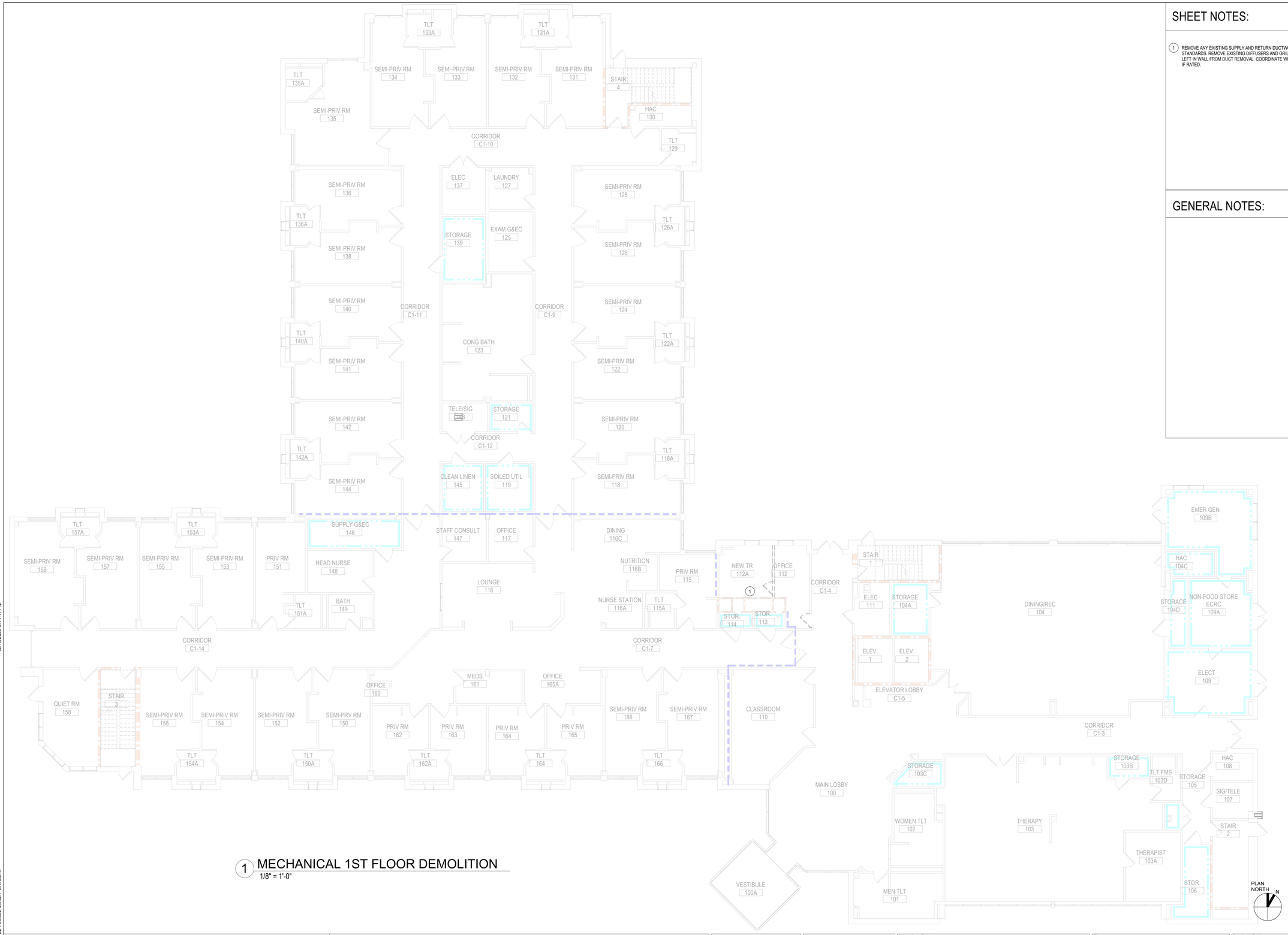

1 MECHANICAL 1ST FLOOR DEMOLITION
1/8" = 1'-0"

1/8" = 1'-0" 5 0 5 10 15 20 SCALE FEET

SHEET NOTES:

1. REMOVE ANY EXISTING SUPPLY AND RETURN DUCTWORK BACK TO MAIN IN ADJOINING CORRIDOR. CAP AND SEAL PER SMACNA STANDARDS. REMOVE EXISTING DIFFUSERS AND GRILLES. REMOVE ANY EXISTING TRANSFER DUCTWORK. PATCH ALL OPENINGS LEFT IN WALL FROM DUCT REMOVAL. COORDINATE WITH ARCHITECTURAL DRAWINGS FOR WALL RATINGS. MAINTAIN WALL RATING IF RATED.

GENERAL NOTES:

FINAL BID DOCUMENTS

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Drawing Title: MECHANICAL 1ST FLOOR DEMOLITION PLAN	Phase: FINAL BID DOCUMENTS	Project Title: EHRM INFRASTRUCTURE UPGRADES	Project Number: 637-22-700
			Building Number: BLDG 62
Approved:		Location: 1100 TUNNEL ROAD ASHEVILLE, NC 28805	Drawing Number: 62-MD101
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1 MECHANICAL 2ND FLOOR DEMOLITION

1/8" = 1'-0"

1/8" = 1'-0" 5 0 5 10 15 20 SCALE FEET

SHEET NOTES:

1. REMOVE ANY EXISTING SUPPLY AND RETURN DUCTWORK BACK TO MAIN IN ADJOINING CORRIDOR. CAP AND SEAL PER SMACNA STANDARDS. REMOVE EXISTING DIFFUSERS AND GRILLES. REMOVE ANY EXISTING TRANSFER DUCTWORK. PATCH ALL OPENINGS LEFT IN WALL FROM DUCT REMOVAL. COORDINATE WITH ARCHITECTURAL DRAWINGS FOR WALL RATINGS. MAINTAIN WALL RATING IF RATED.

GENERAL NOTES:

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Drawing Title: MECHANICAL 2ND FLOOR DEMOLITION PLAN	Phase: FINAL BID DOCUMENTS	Project Title: EHRM INFRASTRUCTURE UPGRADES	Project Number: 637-22-700
			Building Number: BLDG 62
Approved:		Location: 1100 TUNNEL ROAD ASHEVILLE, NC 28805	Drawing Number: 62-MD102
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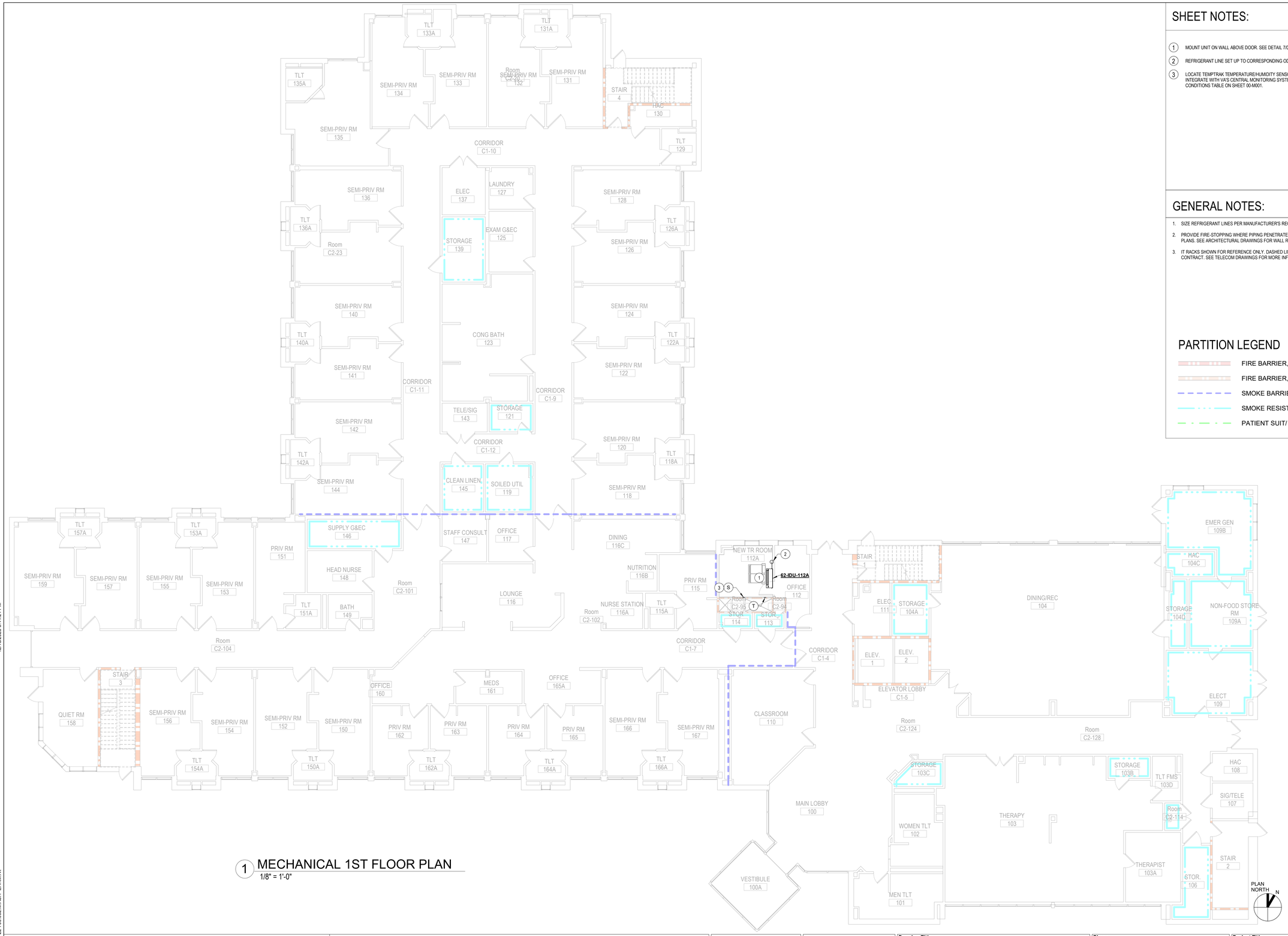

1 MECHANICAL 1ST FLOOR PLAN
1/8" = 1'-0"

SHEET NOTES:

1. MOUNT UNIT ON WALL ABOVE DOOR. SEE DETAIL 7/00-M501. MAINTAIN MANUFACTURER'S MINIMUM CLEARANCES.
2. REFRIGERANT LINE SET UP TO CORRESPONDING ODU ON ROOF.
3. LOCATE TEMPTRAK TEMPERATURE/HUMIDITY SENSOR ON WALL WITHIN 6 FT OF TELECOM RACK. TEMPTRAK SENSOR SHALL INTEGRATE WITH VA'S CENTRAL MONITORING SYSTEM TO ALERT WHEN ENVIRONMENTAL CONDITIONS ARE NOT MET. SEE DESIGN CONDITIONS TABLE ON SHEET 00-M001.

GENERAL NOTES:

1. SIZE REFRIGERANT LINES PER MANUFACTURER'S RECOMMENDATIONS.
2. PROVIDE FIRE-STOPPING WHERE PIPING PENETRATES FIRE-RATED WALLS. RATED WALLS ARE INDICATED ON PLANS. SEE ARCHITECTURAL DRAWINGS FOR WALL RATING LEGEND.
3. IT RACKS SHOWN FOR REFERENCE ONLY. DASHED LINES INDICATE PLACEHOLDER FOR FUTURE RACK, NOT IN CONTRACT. SEE TELECOM DRAWINGS FOR MORE INFORMATION.

PARTITION LEGEND

- FIRE BARRIER, 2 HR
- FIRE BARRIER, 1 HR
- SMOKE BARRIER, 1/2 HR
- SMOKE RESISTIVE HAZARDOUS
- PATIENT SUIT/ NON SLEEPING

1/8" = 1'-0" SCALE 5 0 5 10 15 20 FEET

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Drawing Title: MECHANICAL 1ST FLOOR PLAN
Approved:
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Phase: FINAL BID DOCUMENTS

Project Title: EHRM INFRASTRUCTURE UPGRADES
Location: 1100 TUNNEL ROAD ASHEVILLE, NC 28805
Issue Date: 12.19.2025
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Project Number: 637-22-700
Building Number: BLDG 62
Drawing Number: 62-MP101
SHEET 502 of 559

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1 MECHANICAL 2ND FLOOR PLAN
1/8" = 1'-0"

SHEET NOTES:

1. MOUNT UNIT ON WALL ABOVE DOOR. SEE DETAIL 7/00-M501. MAINTAIN MANUFACTURER'S MINIMUM CLEARANCES.
2. REFRIGERANT LINE SET UP TO CORRESPONDING ODU ON ROOF.
3. LOCATE TEMPTRAK TEMPERATURE/HUMIDITY SENSOR ON WALL WITHIN 6 FT OF TELECOM RACK. TEMPTRAK SENSOR SHALL INTEGRATE WITH VA'S CENTRAL MONITORING SYSTEM TO ALERT WHEN ENVIRONMENTAL CONDITIONS ARE NOT MET. SEE DESIGN CONDITIONS TABLE ON SHEET 00-M001.
4. REFRIGERANT LINE FROM IDU-112A SET UP TO CORRESPONDING UNIT ON ROOF.

GENERAL NOTES:

1. SIZE REFRIGERANT LINES PER MANUFACTURER'S RECOMMENDATIONS.
2. PROVIDE FIRE-STOPPING WHERE PIPING PENETRATES FIRE-RATED WALLS. RATED WALLS ARE INDICATED ON PLANS. SEE ARCHITECTURAL DRAWINGS FOR WALL RATING LEGEND.
3. IT RACKS SHOWN FOR REFERENCE ONLY. DASHED LINES INDICATE PLACEHOLDER FOR FUTURE RACK, NOT IN CONTRACT. SEE TELECOM DRAWINGS FOR MORE INFORMATION.

PARTITION LEGEND

- FIRE BARRIER, 2 HR
- FIRE BARRIER, 1 HR
- SMOKE BARRIER, 1/2 HR
- SMOKE RESISTIVE HAZARDOUS
- PATIENT SUIT/ NON SLEEPING

1/8" = 1'-0" SCALE (5 0 5 10 15 20 FEET)

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Drawing Title: MECHANICAL 2ND FLOOR PLAN
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Phase: FINAL BID DOCUMENTS

Project Title: EHRM INFRASTRUCTURE UPGRADES
Location: 1100 TUNNEL ROAD ASHEVILLE, NC 28805
Issue Date: 12.19.2025
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Project Number: 637-22-700
Building Number: BLDG 62
Drawing Number: 62-MP102
SHEET 503 of 559

12/18/2025 5:44:22 PM
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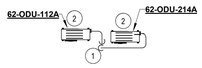
SHEET NOTES:

1. REFRIGERANT LINE SETS DOWN TO CORRESPONDING IDU. USE PIPING PORTAL. SEE DETAIL 8/00-M501.
2. MOUNT CONDENSING UNITS ON ROOF CURB OR ROOF RAILS. SEE DETAIL 5/00-M501. LOCATE CONDENSING UNITS AS NEAR AS PRACTICAL TO REFRIGERANT PIPE PORTALS. MAINTAIN MANUFACTURER'S MINIMUM RECOMMENDED CLEARANCES BETWEEN CONDENSING UNITS AND BETWEEN OTHER OBSTRUCTIONS. CONDENSING UNITS SHALL NOT ADVERSELY AFFECT THE PERFORMANCE OR SERVICABILITY OF EXISTING NEARBY EQUIPMENT.

GENERAL NOTES:

1. SIZE REFRIGERANT LINES PER MANUFACTURER'S RECOMMENDATIONS.



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

PLAN NORTH N

1/8" = 1'-0" 5 0 5 10 15 20
SCALE FEET

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Drawing Title	Phase	Project Title	Project Number
MECHANICAL ROOF PLAN	FINAL BID DOCUMENTS	EHRM INFRASTRUCTURE UPGRADES	637-22-700
			Building Number: BLDG 62
Approved:		Location: 1100 TUNNEL ROAD ASHEVILLE, NC 28805	Drawing Number: 62-MP103
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MINI-SPLIT INDOOR UNIT SCHEDULE

MARK	CORRESPONDING ODU	LOCATION	MAX SUPPLY AIR FLOW	COOLING			ELECTRICAL					BASIS OF DESIGN			REMARKS
				EDB	EWB	LDB	VOLTAGE	PHASE	FREQUENCY	FLA	MCA	MAKE	MODEL	WEIGHT	
62-IDU-112A	62-ODU-112A	BLDG 62 112A	1000 CFM	80 °F	62.5 °F	56 °F	208 V	1	60 Hz	3 A	4 A	VERTIV	WLM070A	120 lb	1-5
62-IDU-214A	62-ODU-214A	BLDG 62 214A	1000 CFM	80 °F	62.5 °F	56 °F	208 V	1	60 Hz	3 A	4 A	VERTIV	WLM070A	120 lb	1-5

NOTES:

1. PROVIDE WITH BLUE DIAMOND MAXIBLUE (X87-721) OR EQUAL CONDENSATE PUMP. COORDINATE WITH ELECTRICAL CONTRACTOR FOR POWER. PROVIDE DRIP PAN WITH MOISTURE SENSOR TO GENERATE AN ALARM TO THE BAS IN THE EVENT OF PRIMARY DRAIN OVERFLOW.
2. PROVIDE WITH MANUFACTURER'S THERMOSTAT. UNIT TO RUN ON INTERNAL CONTROL LOGIC.
3. INDOOR UNIT POWERED BY OUTDOOR UNIT. ROUTE CONTROL AND POWER WIRING WITH REFRIGERANT LINESET.
4. PRODVIDE ONE (1) TEMPTRAX TEMPERATURE/HUMIDITY SENSOR PER TELECOM ROOM TO INTEGRATE WITH VA'S CENTRAL MONITORING SYSTEM TO ALERT WHEN ENVIRONMENTAL CONDITION REQUIREMENTS ARE NOT MET. SEE DESIGN CONDITIONS TABLE ON 00-M001.
5. ECM FAN.

MINI-SPLIT OUTDOOR UNIT SCHEDULE

MARK	CORRESPONDING IDU	LOCATION	REFRIGERANT	COOLING				ELECTRICAL					BASIS OF DESIGN			REMARKS
				NOMINAL CAPACITY	TOTAL COOLING	SENSIBLE COOLING	NSCOP	VOLTAGE	PHASE	FREQUENCY	FLA	MCA	MAKE	MODEL	WEIGHT	
62-ODU-112A	62-IDU-112A	ROOF	R32	7 kW	25,468 Btu/h	25,468 Btu/h	4.08	208 V	1	60 Hz	26 A	32 A	VERTIV	CUD070	118 lb	1-7
62-ODU-214A	62-IDU-214A	ROOF	R32	7 kW	25,468 Btu/h	25,468 Btu/h	4.08	208 V	1	60 Hz	26 A	32 A	VERTIV	CUD070	118 lb	1-7

NOTES:

1. PROVIDE WITH MANUFACTURER'S WIND BAFFLES.
2. PROVIDE WITH MANUFACTURER'S ROOF CURB.
3. INDOOR UNIT POWERED BY OUTDOOR UNIT. ROUTE CONTROL AND POWER WIRING WITH REFRIGERANT LINESET.
4. SHALL BE CAPABLE OF OPERATING DOWN TO 0°F OUTDOOR AMBIENT TEMPERATURE.
5. VARIABLE SPEED COMPRESSOR.
6. REFRIGERANT LINE LENGTH UP TO 197 FT.
7. EC FAN.

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Facilities Management Services

VA U.S. Department of Veterans Affairs

Drawing Title: MECHANICAL SCHEDULES

Approved:

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Phase: FINAL BID DOCUMENTS

Project Title: EHRM INFRASTRUCTURE UPGRADES

Location: 1100 TUNNEL ROAD ASHEVILLE, NC 28805

Issue Date: 12.19.2025

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Drawn

Project Number: 637-22-700

Building Number: BLDG 62

Drawing Number: 62-MG601

SHEET 505 of 559

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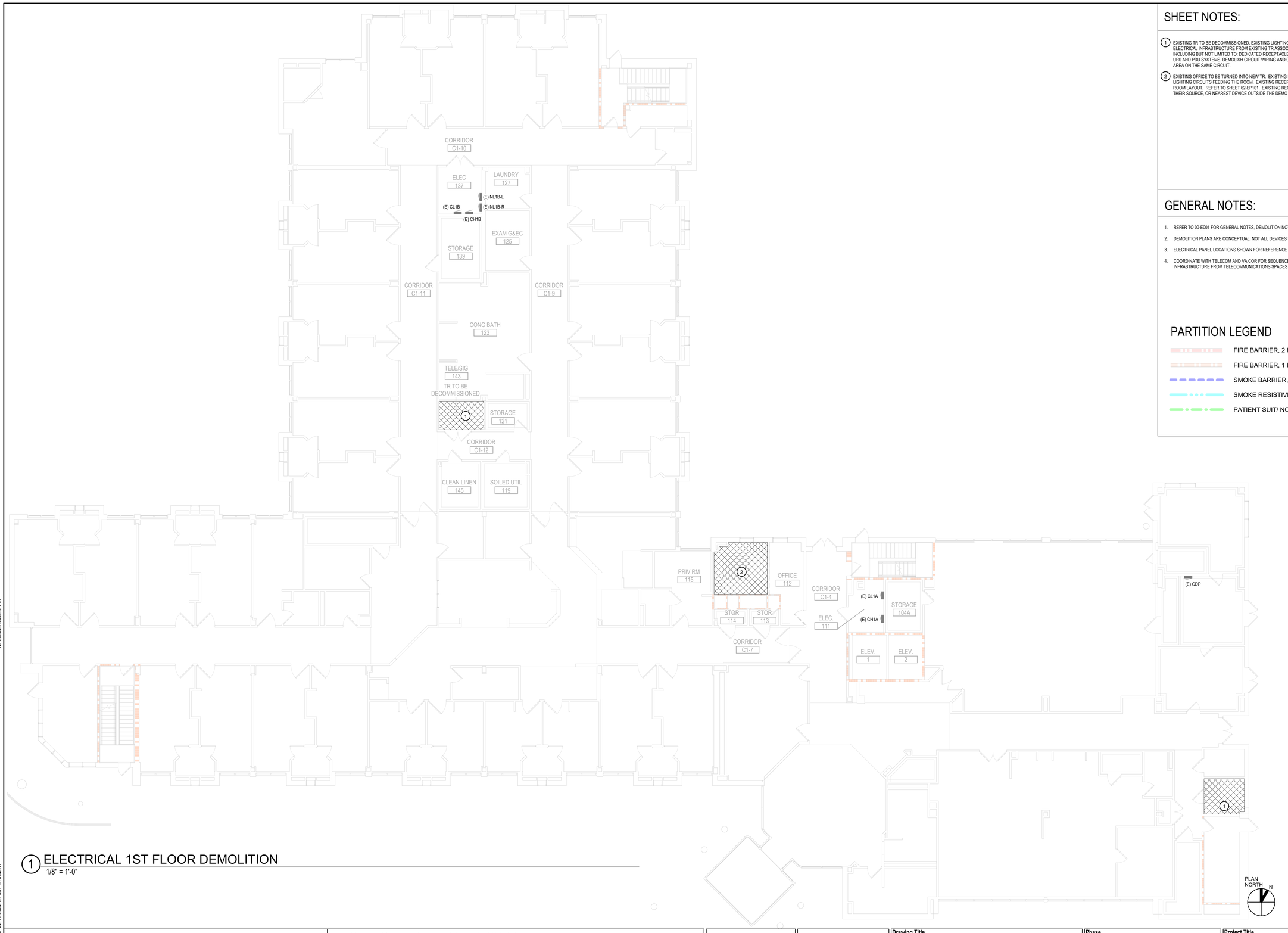

1 ELECTRICAL 1ST FLOOR DEMOLITION
1/8" = 1'-0"

SHEET NOTES:

1. EXISTING TR TO BE DECOMMISSIONED. EXISTING LIGHTING, CONTROLS, AND GENERAL USE OUTLETS TO REMAIN. REMOVE ALL ELECTRICAL INFRASTRUCTURE FROM EXISTING TR ASSOCIATED WITH TELECOMMUNICATIONS RACK(S) BEING REMOVED, INCLUDING BUT NOT LIMITED TO: DEDICATED RECEPTACLES, HARDWIRED EQUIPMENT CONNECTIONS, GROUNDING SYSTEMS, AND UPS AND PDU SYSTEMS. DEMOLISH CIRCUIT WIRING AND CONDUIT BACK TO SOURCE, OR NEAREST DEVICE OUTSIDE THE DEMO AREA ON THE SAME CIRCUIT.
2. EXISTING OFFICE TO BE TURNED INTO NEW TR. EXISTING LIGHTING AND CONTROLS SHALL BE REMOVED. RETAIN EXISTING LIGHTING CIRCUITS FEEDING THE ROOM. EXISTING RECEPTACLES SHALL BE REMOVED, OR RELOCATED BASED ON THE NEW ROOM LAYOUT. REFER TO SHEET 62-EP101. EXISTING RECEPTACLE CIRCUIT WIRING AND CONDUIT SHALL BE REMOVED BACK TO THEIR SOURCE, OR NEAREST DEVICE OUTSIDE THE DEMO AREA ON THE SAME CIRCUIT.

GENERAL NOTES:

1. REFER TO 00-E001 FOR GENERAL NOTES, DEMOLITION NOTES, AND LEGENDS.
2. DEMOLITION PLANS ARE CONCEPTUAL, NOT ALL DEVICES TO BE DEMOLISHED ARE SHOWN.
3. ELECTRICAL PANEL LOCATIONS SHOWN FOR REFERENCE ONLY. ALL PANELS ARE EXISTING TO REMAIN.
4. COORDINATE WITH TELECOM AND VA COR FOR SEQUENCE OF DEMOLITION PRIOR TO REMOVING EXISTING ELECTRICAL INFRASTRUCTURE FROM TELECOMMUNICATIONS SPACES THAT ARE BEING DECOMMISSIONED.

PARTITION LEGEND

- FIRE BARRIER, 2 HR
- FIRE BARRIER, 1 HR
- SMOKE BARRIER, 1/2 HR
- SMOKE RESISTIVE HAZARDOUS
- PATIENT SUIT/ NON SLEEPING

Revisions:	Date:

ARCHITECT/ENGINEER OF RECORD

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12/18/2025

Facilities Management Services

VA | U.S. Department of Veterans Affairs

Drawing Title	Phase	Project Title	Project Number
ELECTRICAL 1ST FLOOR DEMOLITION	FINAL BID DOCUMENTS	EHRM INFRASTRUCTURE UPGRADES	637-22-700
Approved:		Location: 1100 TUNNEL ROAD ASHEVILLE, NC 28805	Building Number: BLDG 62
FOR OFFICIAL USE ONLY		Issue Date: 12.19.2025 / Checked / Drawn	Drawing Number: 62-ED101
			SHEET 506 of 559

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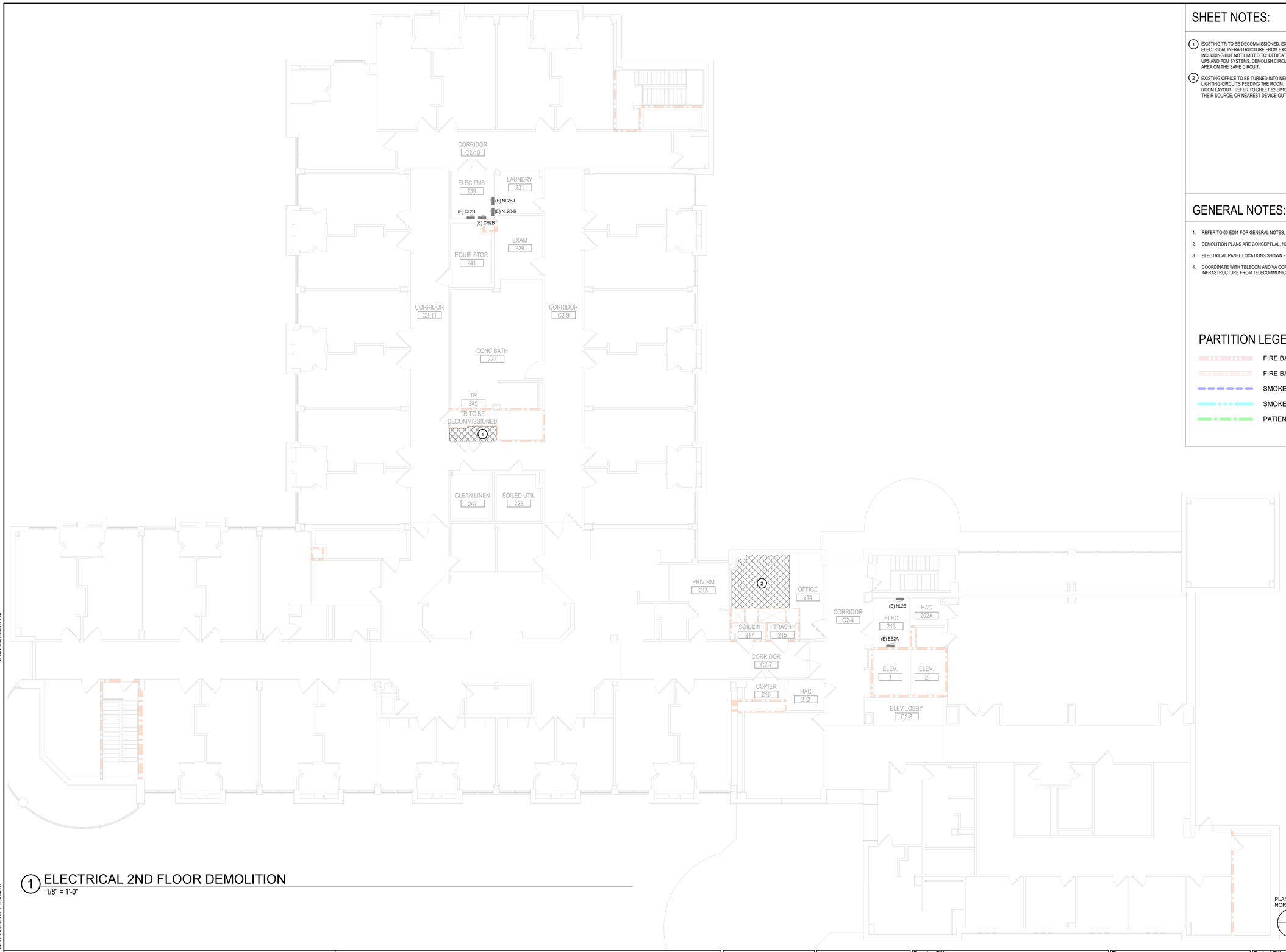

1 ELECTRICAL 2ND FLOOR DEMOLITION
1/8" = 1'-0"

SHEET NOTES:

1. EXISTING TR TO BE DECOMMISSIONED. EXISTING LIGHTING, CONTROLS, AND GENERAL USE OUTLETS TO REMAIN. REMOVE ALL ELECTRICAL INFRASTRUCTURE FROM EXISTING TR ASSOCIATED WITH TELECOMMUNICATIONS RACK(S) BEING REMOVED, INCLUDING BUT NOT LIMITED TO: DEDICATED RECEPTACLES, HARDWIRED EQUIPMENT CONNECTIONS, GROUNDING SYSTEMS, AND UPS AND PDU SYSTEMS. DEMOLISH CIRCUIT WIRING AND CONDUIT BACK TO SOURCE, OR NEAREST DEVICE OUTSIDE THE DEMO AREA ON THE SAME CIRCUIT.
2. EXISTING OFFICE TO BE TURNED INTO NEW TR. EXISTING LIGHTING AND CONTROLS SHALL BE DEMOLISHED. RETAIN EXISTING LIGHTING CIRCUITS FEEDING THE ROOM. EXISTING RECEPTACLES SHALL BE REMOVED, OR RELOCATED BASED ON THE NEW ROOM LAYOUT. REFER TO SHEET 62-EP102. EXISTING RECEPTACLE CIRCUIT WIRING AND CONDUIT SHALL BE REMOVED BACK TO THEIR SOURCE, OR NEAREST DEVICE OUTSIDE THE DEMO AREA ON THE SAME CIRCUIT.

GENERAL NOTES:

1. REFER TO 00-E001 FOR GENERAL NOTES, DEMOLITION NOTES, AND LEGENDS.
2. DEMOLITION PLANS ARE CONCEPTUAL, NOT ALL DEVICES TO BE DEMOLISHED ARE SHOWN.
3. ELECTRICAL PANEL LOCATIONS SHOWN FOR REFERENCE ONLY. ALL PANELS ARE EXISTING TO REMAIN.
4. COORDINATE WITH TELECOM AND VA COR FOR SEQUENCE OF DEMOLITION PRIOR TO REMOVING EXISTING ELECTRICAL INFRASTRUCTURE FROM TELECOMMUNICATIONS SPACES THAT ARE BEING DECOMMISSIONED.

PARTITION LEGEND

- FIRE BARRIER, 2 HR
- FIRE BARRIER, 1 HR
- SMOKE BARRIER, 1/2 HR
- SMOKE RESISTIVE HAZARDOUS
- PATIENT SUIT/ NON SLEEPING

Revisions:	Date:

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Drawing Title: ELECTRICAL 2ND FLOOR DEMOLITION	Phase: FINAL BID DOCUMENTS	Project Title: EHRM INFRASTRUCTURE UPGRADES	Project Number: 637-22-700
			Building Number: BLDG 62
Approved: FOR OFFICIAL USE ONLY		Location: 1100 TUNNEL ROAD ASHEVILLE, NC 28805	Drawing Number: 62-ED102
		Issue Date: 12.19.2025 / Checked: / Drawn:	SHEET 507 of 559

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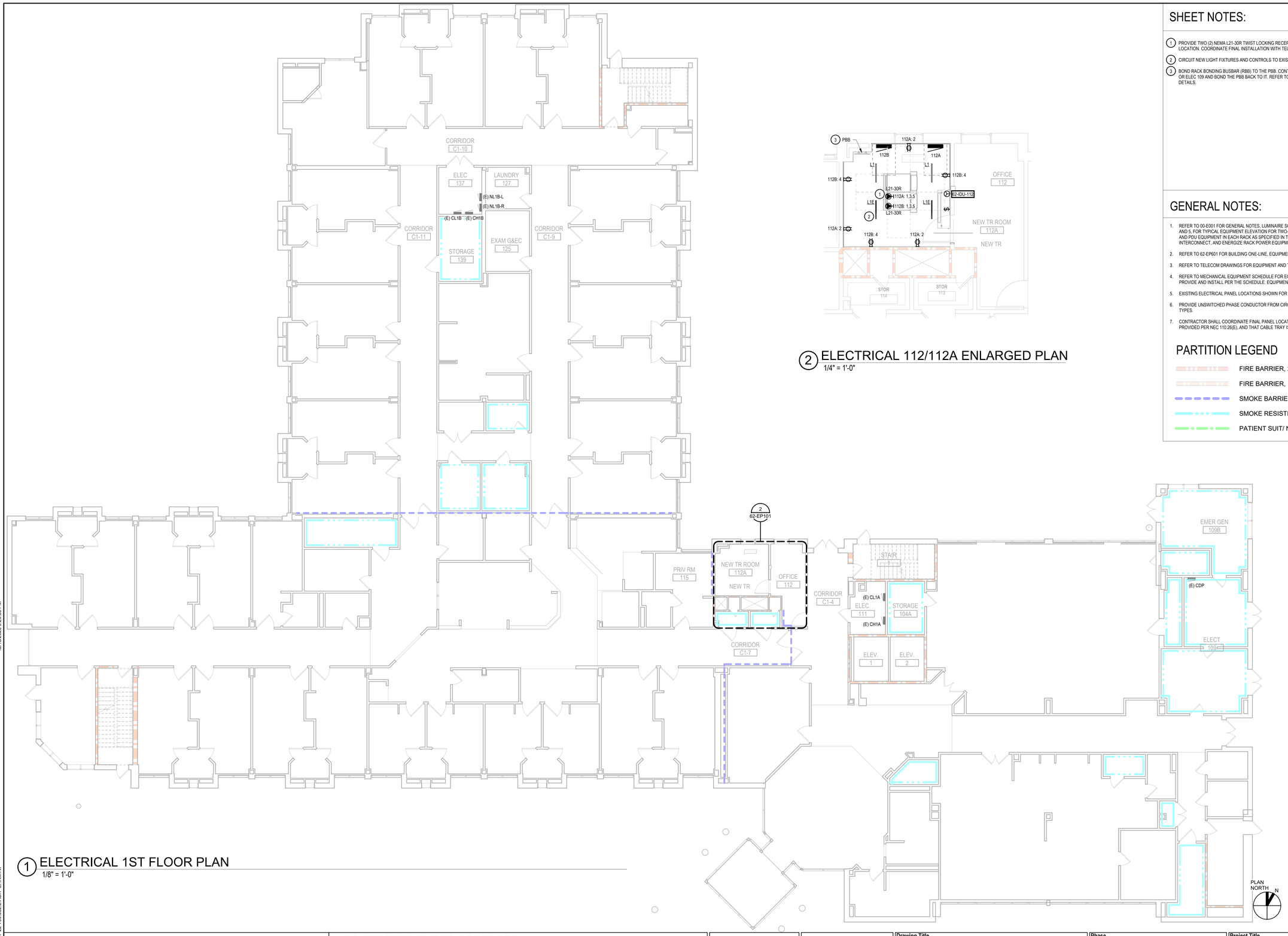

1 ELECTRICAL 1ST FLOOR PLAN
1/8" = 1'-0"

2 ELECTRICAL 112/112A ENLARGED PLAN
1/4" = 1'-0"

SHEET NOTES:

1. PROVIDE TWO (2) NEMA L21-30R TWIST LOCKING RECEPTACLES. MOUNT TO CABLE TRAY ABOVE RACK IN AN ACCESSIBLE LOCATION. COORDINATE FINAL INSTALLATION WITH TELECOM EQUIPMENT. REFER TO TELECOM PLANS.
2. CIRCUIT NEW LIGHT FIXTURES AND CONTROLS TO EXISTING LIGHTING CIRCUIT SERVING THE ROOM.
3. BOND RACK BONDING BUSBAR (RBB) TO THE PBB. CONTRACTOR SHALL LOCATE THE BUILDING MAIN GROUNDING BAR IN ELEC 111 OR ELEC 109 AND BOND THE PBB BACK TO IT. REFER TO GROUNDING AND BONDING DETAILS(S) ON SHEET 62-TN602 FOR FURTHER DETAILS.

GENERAL NOTES:

1. REFER TO 00-E001 FOR GENERAL NOTES, LUMINAIRE SCHEDULE, AND POWER EQUIPMENT SCHEDULE. REFER TO 00-E501, DETAILS 2 AND 5, FOR TYPICAL EQUIPMENT ELEVATION FOR TWO-RACK TELECOM ROOM INSTALLATIONS. CONTRACTOR SHALL PROVIDE UPS AND PDU EQUIPMENT IN EACH RACK AS SPECIFIED IN THE POWER EQUIPMENT SCHEDULE AND EQUIPMENT ELEVATION. INSTALL, INTERCONNECT, AND ENERGIZE RACK POWER EQUIPMENT AS SHOWN.
2. REFER TO 62-EP601 FOR BUILDING ONE-LINE, EQUIPMENT SCHEDULE, AND PANEL SCHEDULES.
3. REFER TO TELECOM DRAWINGS FOR EQUIPMENT AND TELECOM RACK LAYOUTS.
4. REFER TO MECHANICAL EQUIPMENT SCHEDULE FOR EQUIPMENT DISCONNECT SIZING AND DESCRIPTION. CONTRACTOR SHALL PROVIDE AND INSTALL PER THE SCHEDULE. EQUIPMENT DISCONNECTING MEANS SHALL BE INSTALLED PER NEC 430, 440, AND 110.26.
5. EXISTING ELECTRICAL PANEL LOCATIONS SHOWN FOR REFERENCE ONLY. ALL PANELS DENOTED BY "(E)" ARE EXISTING TO REMAIN.
6. PROVIDE UNSWITCHED PHASE CONDUCTOR FROM CIRCUIT SERVING LOCAL SWITCH GROUP TO ALL WALL MOUNTED "L1E" FIXTURE TYPES.
7. CONTRACTOR SHALL COORDINATE FINAL PANEL LOCATIONS INSIDE TR'S WITH TELECOM TO ENSURE OVERHEAD CLEARANCE IS PROVIDED PER NEC 110.26(E), AND THAT CABLE TRAY IS NOT ROUTED DIRECTLY ABOVE THE PANEL.

PARTITION LEGEND

- FIRE BARRIER, 2 HR
- FIRE BARRIER, 1 HR
- SMOKE BARRIER, 1/2 HR
- SMOKE RESISTIVE HAZARDOUS
- PATIENT SUIT/ NON SLEEPING

Revisions:	Date:

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Facilities Management Services

VA U.S. Department of Veterans Affairs

Drawing Title: ELECTRICAL 1ST FLOOR PLAN

Approved:

FOR OFFICIAL USE ONLY

Phase: FINAL BID DOCUMENTS

Project Title: EHRM INFRASTRUCTURE UPGRADES

Location: 1100 TUNNEL ROAD ASHEVILLE, NC 28805

Issue Date: 12.19.2025

Checked:

Drawn:

Project Number: 637-22-700

Building Number: BLDG 62

Drawing Number: 62-EP101

SHEET 508 of 559

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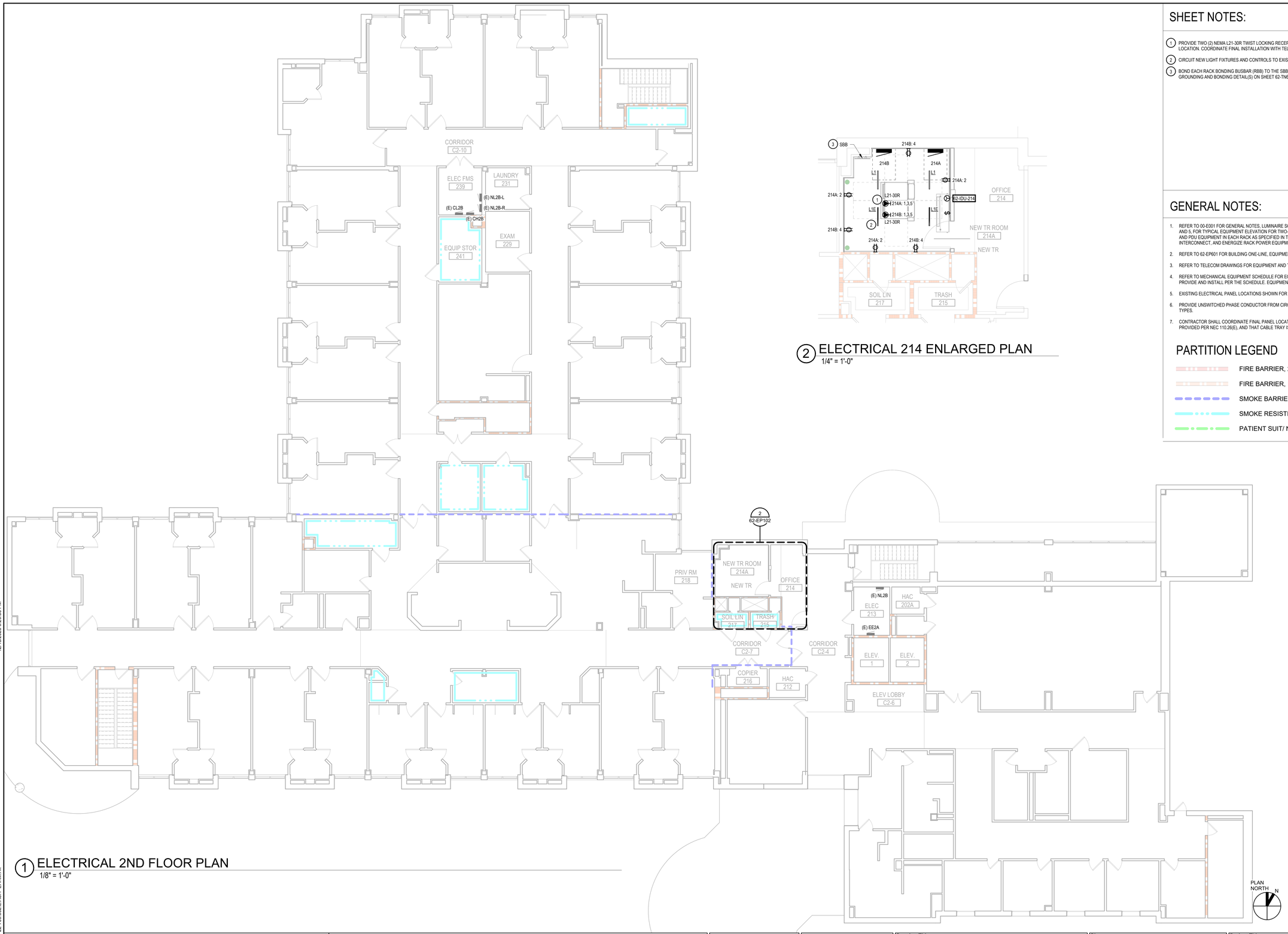

1 ELECTRICAL 2ND FLOOR PLAN
1/8" = 1'-0"

2 ELECTRICAL 214 ENLARGED PLAN
1/4" = 1'-0"

SHEET NOTES:

1. PROVIDE TWO (2) NEMA L21-30R TWIST LOCKING RECEPTACLES. MOUNT TO CABLE TRAY ABOVE RACK IN AN ACCESSIBLE LOCATION. COORDINATE FINAL INSTALLATION WITH TELECOM EQUIPMENT. REFER TO TELECOM PLANS.
2. CIRCUIT NEW LIGHT FIXTURES AND CONTROLS TO EXISTING LIGHTING CIRCUIT SERVING THE ROOM.
3. BOND EACH RACK BONDING BUSBAR (RBB) TO THE SBB. SBB SHALL BE BONDED BACK TO THE BUILDING PBB. REFER TO GROUNDING AND BONDING DETAIL(S) ON SHEET 62-TN602 FOR FURTHER DETAILS.

GENERAL NOTES:

1. REFER TO 00-E001 FOR GENERAL NOTES, LUMINAIRE SCHEDULE, AND POWER EQUIPMENT SCHEDULE. REFER TO 00-E501, DETAILS 2 AND 5, FOR TYPICAL EQUIPMENT ELEVATION FOR TWO-RACK TELECOM ROOM INSTALLATIONS. CONTRACTOR SHALL PROVIDE UPS AND PDU EQUIPMENT IN EACH RACK AS SPECIFIED IN THE POWER EQUIPMENT SCHEDULE AND EQUIPMENT ELEVATION. INSTALL, INTERCONNECT, AND ENERGIZE RACK POWER EQUIPMENT AS SHOWN.
2. REFER TO 62-EP601 FOR BUILDING ONE-LINE, EQUIPMENT SCHEDULE, AND PANEL SCHEDULES.
3. REFER TO TELECOM DRAWINGS FOR EQUIPMENT AND TELECOM RACK LAYOUTS.
4. REFER TO MECHANICAL EQUIPMENT SCHEDULE FOR EQUIPMENT DISCONNECT SIZING AND DESCRIPTION. CONTRACTOR SHALL PROVIDE AND INSTALL PER THE SCHEDULE. EQUIPMENT DISCONNECTING MEANS SHALL BE INSTALLED PER NEC 430, 440, AND 110.26.
5. EXISTING ELECTRICAL PANEL LOCATIONS SHOWN FOR REFERENCE ONLY. ALL PANELS DENOTED BY "(E)" ARE EXISTING TO REMAIN.
6. PROVIDE UNSWITCHED PHASE CONDUCTOR FROM CIRCUIT SERVING LOCAL SWITCH GROUP TO ALL WALL MOUNTED "L1E" FIXTURE TYPES.
7. CONTRACTOR SHALL COORDINATE FINAL PANEL LOCATIONS INSIDE TRS WITH TELECOM TO ENSURE OVERHEAD CLEARANCE IS PROVIDED PER NEC 110.26(E), AND THAT CABLE TRAY IS NOT ROUTED DIRECTLY ABOVE THE PANEL.

PARTITION LEGEND

- FIRE BARRIER, 2 HR
- FIRE BARRIER, 1 HR
- SMOKE BARRIER, 1/2 HR
- SMOKE RESISTIVE HAZARDOUS
- PATIENT SUIT/ NON SLEEPING

1/4" = 1'-0" SCALE 2 0 2 4 6 8 10 FEET

1/8" = 1'-0" SCALE 5 0 5 10 15 20 FEET

PLAN NORTH N

Revisions:	Date:

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Facilities Management Services

VA U.S. Department of Veterans Affairs

Drawing Title: ELECTRICAL 2ND FLOOR PLAN

Phase: FINAL BID DOCUMENTS

Project Title: EHRM INFRASTRUCTURE UPGRADES

Project Number: 637-22-700

Building Number: BLDG 62

Approved:

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Location: 1100 TUNNEL ROAD ASHEVILLE, NC 28805

Issue Date: 12.19.2025

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Drawn

Drawing Number: 62-EP102

SHEET 509 of 559

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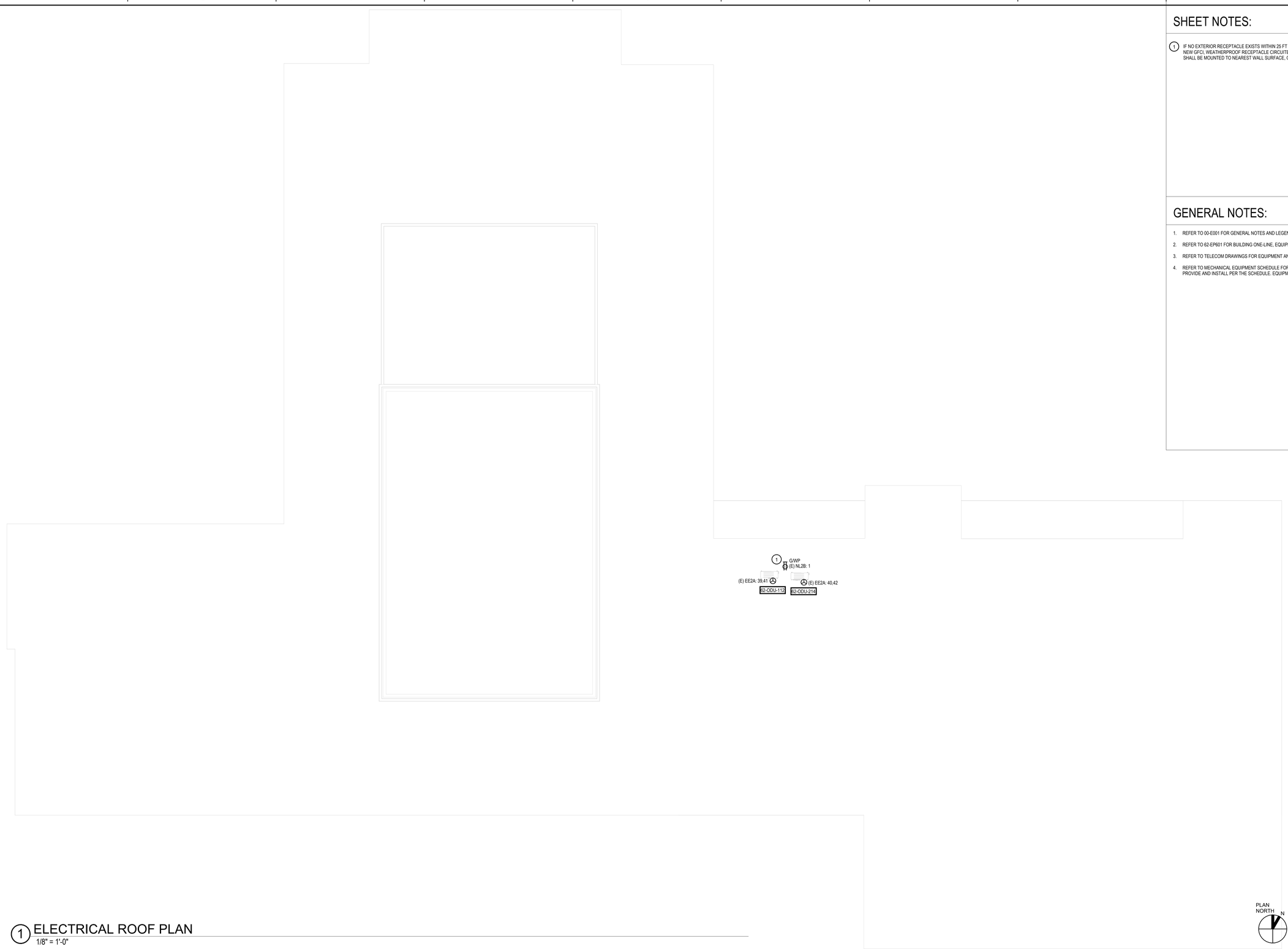

1 ELECTRICAL ROOF PLAN
1/8" = 1'-0"

SHEET NOTES:

1. IF NO EXTERIOR RECEPTACLE EXISTS WITHIN 25 FT OF NEW ROOFTOP MECHANICAL EQUIPMENT, CONTRACTOR SHALL PROVIDE NEW GFCI, WEATHERPROOF RECEPTACLE CIRCUITED TO NEAREST EXISTING 120V ROOFTOP RECEPTACLE CIRCUIT. RECEPTACLE SHALL BE MOUNTED TO NEAREST WALL SURFACE, OR PROVIDE RECEPTACLE MOUNTING FRAME PER DETAIL 3, SHEET 00-E503.

GENERAL NOTES:

1. REFER TO 00-E001 FOR GENERAL NOTES AND LEGENDS.
2. REFER TO 62-EP601 FOR BUILDING ONE-LINE, EQUIPMENT SCHEDULE, AND PANEL SCHEDULES.
3. REFER TO TELECOM DRAWINGS FOR EQUIPMENT AND TELECOM RACK LAYOUTS.
4. REFER TO MECHANICAL EQUIPMENT SCHEDULE FOR EQUIPMENT DISCONNECT SIZING AND DESCRIPTION. CONTRACTOR SHALL PROVIDE AND INSTALL PER THE SCHEDULE. EQUIPMENT DISCONNECTING MEANS SHALL BE INSTALLED PER NEC 430, 440, AND 110.26.

Revisions:	Date:

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Drawing Title	Phase	Project Title	Project Number
ELECTRICAL ROOF PLAN	FINAL BID DOCUMENTS	EHRM INFRASTRUCTURE UPGRADES	637-22-700
			Building Number: BLDG 62
Approved: FOR OFFICIAL USE ONLY		Location: 1100 TUNNEL ROAD ASHEVILLE, NC 28805	Drawing Number: 62-EP103
		Issue Date: 12.19.2025 / Checked / Drawn	SHEET 510 of 559

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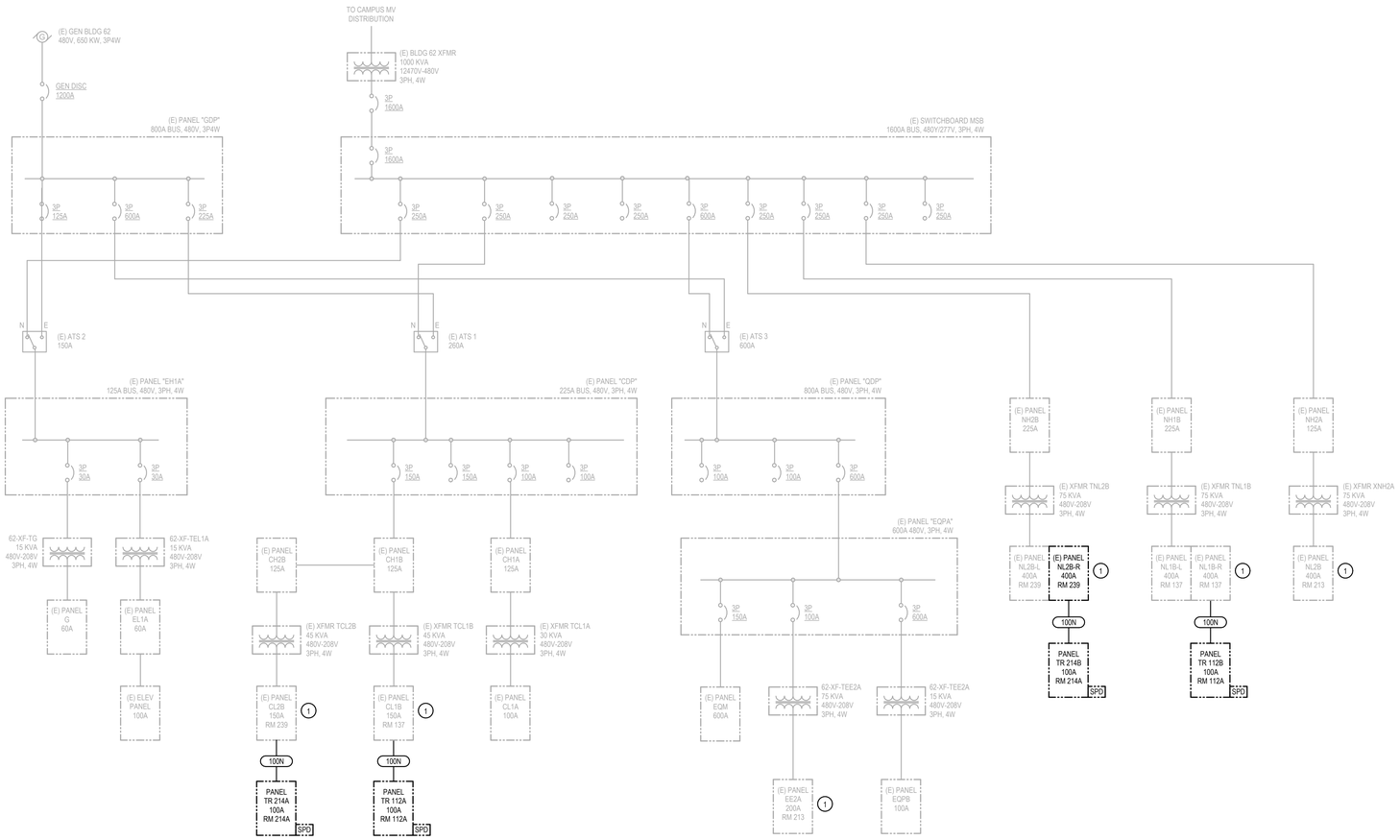

1 BUILDING 62 PARTIAL ONE-LINE DIAGRAM

N.T.S.

MECHANICAL EQUIPMENT SCHEDULE

UNIT ID	EQUIPMENT DESCRIPTION	LOCATION	VOLTS	PHASE SIZE	HP	LOAD (KVA)	FLA	MCA	MOCP	CONDUIT & WIRE	CONNECTION TYPE	DISCONNECT DESCRIPTION	DISC NEMA RATING	DISC BY	STARTER DESCRIPTION	STARTER PROVIDED BY	SCCR	CIRCUIT ID	NOTES
62-IDU-112	SPLIT SYSTEM INDOOR UNIT		208 V	2P 2W	-	0.62 kVA	3.0 A	4 A	15 A	2#12 CU, 1#12 G IN 3/4" CONDUIT	HARDWIRED	MOTOR RATED TOGGLE SWITCH	NEMA 1	DIV 26	-	-	5000		INTERWIRE WITH OUTDOOR UNIT (62-ODU-112A). PROVIDE RECEPTACLE FOR CONDENSATE PUMP.
62-IDU-214	SPLIT SYSTEM INDOOR UNIT		208 V	2P 2W	-	0.62 kVA	3.0 A	4 A	15 A	2#12 CU, 1#12 G IN 3/4" CONDUIT	HARDWIRED	MOTOR RATED TOGGLE SWITCH	NEMA 1	DIV 26	-	-	5000		INTERWIRE WITH OUTDOOR UNIT (62-ODU-214). PROVIDE RECEPTACLE FOR CONDENSATE PUMP.
62-ODU-112	DUCTLESS SPLIT SYSTEM (3 TON)	ROOF	208 V	2P 2W	-	5.41 kVA	26.0 A	32 A	65 A	2#4 CU, 1#8 G IN 3/4" CONDUIT	HARDWIRED	100A/2P/NF	NEMA 3R	DIV 26	-	-	5000	(E) EE2A-39,41	INTERWIRE WITH INDOOR UNIT
62-ODU-214	DUCTLESS SPLIT SYSTEM (3 TON)	ROOF	208 V	2P 2W	-	5.41 kVA	26.0 A	32 A	65 A	2#4 CU, 1#8 G IN 3/4" CONDUIT	HARDWIRED	100A/2P/NF	NEMA 3R	DIV 26	-	-	5000	(E) EE2A-40,42	INTERWIRE WITH INDOOR UNIT

COPPER FEEDER SCHEDULE

TAG	OCPD (A)	AMPACITY (A)	CONDUIT SIZE	CONDUCTOR SIZE	KEYED NOTES
100N	100	110	1-1/2"	3#1, 1#1/0 N & 1#8 G	1

GENERAL NOTES:
1. CONDUCTOR SIZES BASED ON 60°C COPPER CONDUCTORS FOR OCPD RATED 100 AMPS AND LOWER, AND 75°C COPPER CONDUCTORS FOR OCPD RATED OVER 100 AMPS.
2. CONDUIT SIZE LISTED IS MINIMUM SIZE REQUIRED BY NEC, BASED ON RIGID STEEL CONDUIT. MAINTAIN FILL RATIO AS REQUIRED BY NEC. MINIMUM CONDUIT SIZE SHALL BE 3/4".
3. REFER TO SPECIFICATIONS FOR INSULATION TYPE.

KEYED NOTES:
1. NEUTRAL CONDUCTOR SHALL BE UPSIZED ONE GAUGE FROM PHASE CONDUCTORS PER ISTS STANDARDS.

SHEET NOTES:

1. NEW LOAD(S) ADDED TO EXISTING PANEL. REFER TO PANEL SCHEDULES FOR MORE INFORMATION.

GENERAL NOTES:

1. REFER TO 00-E001 FOR GENERAL NOTES AND LEGENDS. REFER TO PANEL SCHEDULES FOR ADDITIONAL PANEL INFORMATION.
2. PROVIDE ALL NEW PANELBOARDS WITH AN INTEGRAL TYPE 2 SURGE PROTECTIVE DEVICE.

Revisions: Date:

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12/18/2025

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VA U.S. Department of Veterans Affairs

Drawing Title: ONE-LINE DIAGRAM AND SCHEDULES
Phase: FINAL BID DOCUMENTS
Project Title: EHRM INFRASTRUCTURE UPGRADES
Project Number: 637-22-700
Building Number: BLDG 62
Approved:
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Location: 1100 TUNNEL ROAD ASHEVILLE, NC 28805
Issue Date: 12.19.2025
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Drawing Number: 62-EP601
SHEET 511 of 559

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Branch Panel: (E) EE2A

Location: ELEC 213
Supply From:
Mounting: SURFACE
Enclosure: Type 1
Volts: 120/208 Wye
Phases: 3
Wires: 4
A.I.C. Rating: 10000
Mains Type: MCB
Mains Rating: 200 A
MCB Rating: 200 A

CKT	Circuit Description	Trip	Poles	Notes	A		B		C		Notes	Poles	Trip	Circuit Description	CKT
1	(E) RETHERM CONTROL PANEL	20 A	1		0	0						2	40 A	(E) RANGE RM 103A	2
3	(E) MICROWAVE RM 103A	20 A	1				0	0			--	--	--	--	4
5	(E) HOOD REFRIGERATOR RM 103A	20 A	1						0	0	2	3	30 A	(E) RETHERM UNIT 15	6
7	(E) RETHERM UNIT 13	30 A	3		0	0					--	--	--	--	8
9	--	--	--	--			0	0			--	--	--	--	10
11	--	--	--	--					0	0		3	30 A	(E) RETHERM UNIT 14	12
13	(E) RETHERM UNIT 11	30 A	3		0	0					--	--	--	--	14
15	--	--	--	--			0	0			--	--	--	--	16
17	--	--	--	--					0	0		3	30 A	(E) RETHERM UNIT 16	18
19	(E) RETHERM UNIT 12	30 A	3		0	0					--	--	--	--	20
21	--	--	--	--			0	0			--	--	--	--	22
23	--	--	--	--					0	0		2	15 A	(E) RETEHRM UNIT	24
25	(E) RETHERM UNIT	50 A	3		0	0					--	--	--	--	26
27	--	--	--	--			0	0				2	15 A	(E) RETHERM UNIT	28
29	--	--	--	--					0	0	--	--	--	--	30
31	(E) RETHERM	15 A	2		0	0						2	15 A	(E) RETHERM UNIT	32
33	--	--	--	--			0	0			--	--	--	--	34
35	(E) RETHERM	15 A	2						0	0		2	15 A	(E) RETHERM UNIT	36
37	--	--	--	--	0	0					--	--	--	--	38
39	62-ODU-112A	65 A	2	1			2704	2704			1, 2	2	65 A	62-ODU-214	40
41	--	--	--	--					2704	2704	--	--	--	--	42
				Total Conn. Load:	0 VA		5408 VA		5408 VA						
				Total Amps:	0 A		52 A		52 A						

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
HVAC	10816 VA	100.00%	10816 VA		
				Total Conn. Load:	10816 VA
				Total Est. Demand:	10816 VA
				Total Conn. Current:	30 A
				Total Est. Demand Current:	30 A

Notes:
1. PROVIDE NEW BREAKER, WHICH SHALL MATCH THE EXISTING PANEL MUNUFACTURER AND AIC RATING, AND MAINTAIN EXISTING PANEL UL RATING.
2. CONTRACTOR SHALL FIELD-VERIFY EXISTING CIRCUITS AND AVAILABLE SPACE ON THIS PANEL. USE EXISTING EMPTY SPACE TO SHIFT EXISTING CIRCUIT BREAKERS UP TO ALLOW FOR ROOM IN SPACES 40,42 FOR THE NEW LOAD.

Branch Panel: (E) CL1B

Location: ELEC 137
Supply From:
Mounting: SURFACE
Enclosure: Type 1
Volts: 120/208 Wye
Phases: 3
Wires: 4
A.I.C. Rating: 10000
Mains Type: MCB
Mains Rating: 150 A
MCB Rating: 150 A

CKT	Circuit Description	Trip	Poles	Notes	A		B		C		Notes	Poles	Trip	Circuit Description	CKT
1	(E) RECEPTACLE AT NURSE STATION	20 A	1		0	0						1	20 A	(E) SIMPLEX CONTROL CABINETS	2
3	(E) C1-13 MEDS ECRC	20 A	1				0	0				1	20 A	(E) RECEPTACLE TB1B TEL CLOSET	4
5	(E) 161 MEDS ECRC/RECEPTACLE...	20 A	1						0	0		1	20 A	(E) NURSE CALL SYSTEM	6
7	(E) RECEPTACLE 149-151	20 A	1		0	0						1	20 A	(E) RECEPTACLE 131-133	8
9	(E) RECEPTACLE 145-147	20 A	1				0	0				1	20 A	(E) RECEPTACLE 122-123	10
11	(E) RECEPTACLE 135-143	20 A	1						0	0		1	20 A	(E) RECEPTACLE 124-125	12
13	(E) RECEPTACLE 112-114	20 A	1		0	0						1	20 A	(E) RECEPTACLE 120-127	14
15	(E) RECEPTACLE 108-110	20 A	1				0	0				1	20 A	(E) RECEPTACLE 106-140	16
17	(E) RECEPTACLE 116-118	20 A	1						0	0		1	20 A	(E) RECEPTACLE 104-105	18
19	(E) RECEPTACLE 150	20 A	1		0	0						1	20 A	(E) RECEPTACLE 101-102	20
21	(E) RECEPTACLE 145-148	20 A	1				0	0				1	20 A	(E) OMNI CELL	22
23	(E) RECEPTACLE 142-144	20 A	1						0	0		1	20 A	(E) RECEPTACLE CARE TRACKER	24
25	(E) CUH-4	20 A	1		0	0						1	20 A	(E) RECEPTACLE SHOWER EXAM	26
27	(E) CUH-3, CARE TRACKER	20 A	1				0	0				1	20 A	(E) 116 NOURISH ECRC	28
29	(E) WATER CONTROL VALVE	20 A	1						0	0		1	20 A	SPARE	30
31	(E) AUTOMATIC DOOR	20 A	1		0	0						1	20 A	(E) RECEPT NEW OUTLETS / NURSE...	32
33	(E) CONG. BATH AUTO DOOR	20 A	1				0	0				1	20 A	(E) HOSPICE DESK C1-13A /...	34
35	(E) DOOR SECURITY	20 A	1						0	--		1	--	SPACE	36
37	PANEL 112A	100 A	3	1	3873	--						1	--	SPACE	38
39	--	--	--	--			3333	--				1	--	SPACE	40
41	--	--	--	--					3333	--		1	--	SPACE	42
				Total Conn. Load:	3873 VA		3333 VA		3333 VA						
				Total Amps:	32 A		28 A		28 A						

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
REC,	540 VA	100.00%	540 VA		
Telecommunications Equipment	10000 VA	100.00%	10000 VA	**Total Conn. Load:**	10540 VA
				Total Est. Demand:	10540 VA
				Total Conn. Current:	29 A
				Total Est. Demand Current:	29 A

Notes:
1. PROVIDE NEW BREAKER, WHICH SHALL MATCH THE EXISTING PANEL MUNUFACTURER AND AIC RATING, AND MAINTAIN EXISTING PANEL UL RATING.

Branch Panel: (E) CL2B

Location: ELEC FMS 239
Supply From:
Mounting: SURFACE
Enclosure: Type 1
Volts: 120/208 Wye
Phases: 3
Wires: 4
A.I.C. Rating: 10000
Mains Type: MCB
Mains Rating: 150 A
MCB Rating: 150 A

CKT	Circuit Description	Trip	Poles	Notes	A		B		C		Notes	Poles	Trip	Circuit Description	CKT
1	(E) NURSE STATION RECEPTACLE 219...	20 A	1		0	0						1	20 A	(E) RECEPTACLE SB2B	2
3	(E) NOUR. 103 RECEPTACLE / NURSE...	20 A	1				0	0				1	20 A	(E) RECEPTACLE TB2B	4
5	(E) MED 127 RECEPTACLE	20 A	1						0	0		1	20 A	SPARE	6
7	(E) RECEPTACLE 149,151	20 A	1		0	0						1	20 A	(E) RECEPTACLE 131,133	8
9	(E) RECEPTACLE 145,147	20 A	1				0	0				1	20 A	(E) RECEPTACLE 122,123	10
11	(E) RECEPTACLE 135,143	20 A	1						0	0		1	20 A	(E) RECEPTACLE 124,125	12
13	(E) CRASH CART	20 A	1		0	0						1	20 A	(E) RECEPTACLE 120,127, NEW...	14
15	(E) RECEPTACLE 108,110,226, CEILING...	20 A	1				0	0				1	20 A	(E) RECEPTACLE 106,140. NURSE...	16
17	(E) RECEPTACLE 116,118	20 A	1						0	0		1	20 A	(E) RECEPTACLE 104,105	18
19	(E) RECEPTACLE 150	20 A	1		0	0						1	20 A	(E) RECEPTACLE 101,102	20
21	(E) RECEPTACLE 146,148	20 A	1				0	0				1	20 A	(E) RECEPTACLE 120,121	22
23	(E) RECEPTACLE 142,144	20 A	1						0	0		1	20 A	(E) NORATICS LIGHTS / OMNI CELL	24
25	(E) WATER CONT. VALVE	20 A	1		0	0						1	20 A	(E) SHOWER EXAM RECEPTACLE	26
27	(E) WATER CONT. VALVE	20 A	1				0	0				1	20 A	(E) NEW NURSE STATION...	28
29	(E) DOOR CLOSURE	20 A	1						0	0		1	20 A	(E) DOOR CLOSURE	30
31	(E) WATER CONT. VALVE	20 A	1		0	0						1	20 A	SPARE	32
33	(E) PIXIS MACHINE	20 A	1				0	--				1	--	SPACE	34
35	(E) MED CABINET	20 A	1						0	--		1	--	SPACE	36
37	PANEL 214A	100 A	3	1	3873	0						1	20 A	(E) SINGLE COMPUTER STATION / NE...	38
39	--	--	--	--			3333	--				1	--	SPACE	40
41	--	--	--	--					3333	--		1	--	SPACE	42
				Total Conn. Load:	3873 VA		3333 VA		3333 VA						
				Total Amps:	32 A		28 A		28 A						

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
REC,	540 VA	100.00%	540 VA		
Telecommunications Equipment	10000 VA	100.00%	10000 VA	**Total Conn. Load:**	10540 VA
				Total Est. Demand:	10540 VA
				Total Conn. Current:	29 A
				Total Est. Demand Current:	29 A

Notes:
1. PROVIDE NEW BREAKER, WHICH SHALL MATCH THE EXISTING PANEL MUNUFACTURER AND AIC RATING, AND MAINTAIN EXISTING PANEL UL RATING.

Branch Panel: (E) NL1B-R

Location: ELEC 137
Supply From: (E) NL1B-L
Mounting: SURFACE
Enclosure: Type 1
Volts: 120/208 Wye
Phases: 3
Wires: 4
A.I.C. Rating: 10000
Mains Type: MLO
Mains Rating: 400 A

CKT	Circuit Description	Trip	Poles	Notes	A		B		C		Notes	Poles	Trip	Circuit Description	CKT
1	(E) LIGHTS	20 A	1		0	0						1	20 A	(E) LIGHTS	2
3	(E) LIGHTS	20 A	1				0	0				1	20 A	(E) LIGHTS	4
5	(E) LIGHTS	20 A	1						0	--		1	--	SPACE	6
7	(E) ICE MAKER	20 A	1		0	0						1	20 A	(E) LIGHTS	8
9	(E) LIGHTS NIGHT	20 A	1				0	0				1	20 A	(E) LIGHTS	10
11	(E) LIGHTS NIGHT	20 A	1						0	0		1	20 A	(E) REC 109	12
13	(E) REC 147	20 A	1		0	0						1	20 A	(E) REC 132	14
15	(E) HYDRO TUB 57	20 A	1				0	0				3	80 A	(E) DRYER	16
17	(E) HYDRO TUB 59	20 A	1						0	0	--	--	--	--	18
19	UNKNOWN LOAD	20 A	1		0	0					--	--	--	--	20
21	UNKNOWN LOAD	30 A	2				0	0				3	80 A	(E) DRYER	22
23	--	--	--	--					0	0	--	--	--	--	24
25	(E) REC STORAGE	20 A	1		0	0					--	--	--	--	26
27	(E) REC STORAGE	20 A	1				0	0				3	60 A	UNKNOWN LOAD	28
29	(E) REC STORAGE	20 A	1						0	0	--	--	--	--	30
31	(E) GAZEBO	20 A	1		0	0					--	--	--	--	32
33	(E) DRYER	30 A	2				0	--				1	--	SPACE	34
35	--	--	--	--					0	--		1	--	SPACE	36
37	(E) WASHER	20 A	2		0	3333					1	3	100 A	PANEL 112B	38
39	--	--	--	--			0	3873			--	--	--	--	40
41	SPACE	--	1						--	3333	--	--	--	--	42
				Total Conn. Load:	3333 VA		3873 VA		3333 VA						
				Total Amps:	28 A		32 A		28 A						

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
REC,	540 VA	100.00%	540 VA		
Telecommunications Equipment	10000 VA	100.00%	10000 VA	**Total Conn. Load:**	10540 VA
				Total Est. Demand:	10540 VA
				Total Conn. Current:	29 A
				Total Est. Demand Current:	29 A

Notes:
1. PROVIDE NEW BREAKER, WHICH SHALL MATCH THE EXISTING PANEL MUNUFACTURER AND AIC RATING, AND MAINTAIN EXISTING PANEL UL RATING.

Branch Panel: (E) NL2B-R

Location: ELEC FMS 239
Supply From: (E) NL2B-L
Mounting: SURFACE
Enclosure: Type 1
Volts: 120/208 Wye
Phases: 3
Wires: 4
A.I.C. Rating: 10000
Mains Type: MLO
Mains Rating: 400 A

CKT	Circuit Description	Trip	Poles	Notes	A		B		C		Notes	Poles	Trip	Circuit Description	CKT
1	(E) PAT. RM LIGHTS	20 A	1		0	0						1	20 A	(E) PAT. BED LIGHTS	2
3	(E) PAT. RM LIGHTS, RM156	20 A	1				0	0				1	20 A	(E) PAT. BED LIGHTS	4
5	(E) PAT. RM LIGHTS	20 A	1						0	0		1	20 A	(E) PAT. BED LIGHTS	6
7	(E) NIGHT LIGHTS	20 A	1		0	0						1	20 A	(E) PAT. BED LIGHTS	8
9	(E) NIGHT LIGHTS	20 A	1				0	0				1	20 A	(E) RECEPTACLE 132	10
11	(E) NIGHT LIGHTS	20 A	1						0	0		1	20 A	(E) RECEPTACLE 109	12
13	(E) NEW ICE MACHINE AT NEW NURSE...	20 A	1		0	0						1	20 A	EXISTING LOAD	14
15	(E) HYDRO TUB	20 A	1				0	0				1	20 A	EXISTING LOAD	16
17	(E) HYDRO TUB	20 A	1						0	0		1	20 A	(E) STAFF MICROWAVE	18
19	EXISTING LOAD	20 A	1		0	0						3	80 A	EXISTING LOAD	20
21	(E) DRYER	30 A	2				0	0			--	--	--	--	22
23	--	--	--	--					0	0	--	--	--	--	24
25	(E) STORAGE ROOM	20 A	1		0	0						3	80 A	EXISTING LOAD	26
27	(E) STORAGE ROOM	20 A	1				0	0			--	--	--	--	28
29	(E) STORAGE ROOM	20 A	1						0	0	--	--	--	--	30
31	(E) WASHING MACHINE	20 A	2		0	--						3	--	SPACE	32
33	--	--	--	--			0	--			--	--	--	--	34
35	(E) DRYER	30 A	2						0	--	--	--	--	--	36
37	--	--	--	--	0	3333					1	3	100 A	PANEL 214B	38
39	SPACE	--	1				--	3873			--	--	--	--	40
41	SPACE	--	1						--	3333	--	--	--	--	42
				Total Conn. Load:	3333 VA		3873 VA		3333 VA						
				Total Amps:	28 A		32 A		28 A						

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
REC,	540 VA	100.00%	540 VA		
Telecommunications Equipment	10000 VA	100.00%	10000 VA	**Total Conn. Load:**	10540 VA
				Total Est. Demand:	10540 VA
				Total Conn. Current:	29 A
				Total Est. Demand Current:	29 A

Notes:
1. PROVIDE NEW BREAKER, WHICH SHALL MATCH THE EXISTING PANEL MUNUFACTURER AND AIC RATING, AND MAINTAIN EXISTING PANEL UL RATING.

Branch Panel: (E) NL2B

Location: ELEC 213
Supply From:
Mounting: SURFACE
Enclosure: Type 1
Volts: 120/208 Wye
Phases: 3
Wires: 4
A.I.C. Rating: 22000
Mains Type: MCB
Mains Rating: 400 A
MCB Rating: 400 A

CKT	Circuit Description	Trip	Poles	Notes	A		B		C		Notes	Poles	Trip	Circuit Description	CKT
1	REC, ROOF	20 A	1	1	180	0						1	20 A	(E) RECP - STAFF WORK 201	2
3	(E) PROJECTOR - MEDIA RM 202	20 A	1				0	0				1	20 A	(E) RECP - STAFF WORK 201	4
5	(E) RECP - STAFF WORK 201	20 A	1						0	0		1	20 A	(E) RECP - STAFF WORK 201	6
7	(E) RECP - STAFF WORK 201	20 A	1		0	0						1	20 A	(E) RECP - STAFF WORK 201	8
9	(E) RECP - STAFF WORK 201	20 A	1				0	0				1	20 A	(E) RECP - STAFF WORK 201	10
11	(E) RECP - STAFF WORK 201	20 A	1						0	0		1	20 A	(E) RECP - STAFF WORK 201	12
13	(E) RECP - STAFF WORK 201	20 A	1		0	0						1	20 A	(E) RECP - 202,203	14
15	(E) RECP - STAFF WORK 201	20 A	1				0	0				1	20 A	(E) OUTLET - CINNAMON ROLL	16
17	(E) RECP - STAFF WORK 201	20 A	1						0	0		1	20 A	(E) OUTLET - CINNAMON ROLL	18
19	(E) RECP - STAFF WORK 201	20 A	1		0	0						1	20 A	SPARE	20
21	(E) OUTLET - CINNAMON ROLL	20 A	1				0	0				1	20 A	(E) RECP - 203	22
23	(E) OUTLET - CINNAMON ROLL	20 A	1						0	0		1	20 A	(E) RECP - 203	24
25	(E) COOKIE COOKER	20 A	3		0	0						3	20 A	(E) COOKIE COOKER	26
27	--	--	--	--			0	0			--	--	--	--	28
29	--	--	--						0	0	--	--	--	--	30
31	(E) COOKIE COOKER	20 A	3		0	0						3	20 A	(E) COOKIE COOKER	32
33	--	--	--	--			0	0			--	--	--	--	34
35	--	--	--						0	0	--	--	--	--	36
37	(E) AIR CURTAIN 1ST FLOOR	20 A	1		0	0						2	20 A	SPARE	38
39	(E) RECP - TV 203	20 A	2				0	0			--	--	--	--	40
41	--	--	--	--					0	0		1	20 A	SPARE	42
				Total Conn. Load:	180 VA		0 VA		0 VA						
				Total Amps:	2 A		0 A		0 A						

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
REC,	180 VA	100.00%	180 VA		
				Total Conn. Load:	180 VA
				Total Est. Demand:	180 VA
				Total Conn. Current:	0 A
				Total Est. Demand Current:	0 A

Notes:
1. USE EXISTING 20A/1P SPARE BREAKER. CONTRACTOR SHALL VERIFY BREAKER IS NOT IN USE.

GENERAL NOTES:

1. REFER TO 00-E001 FOR GENERAL NOTES AND LEGENDS.
2. ADDITIONAL LOAD TO BE ADDED TO PANELS AS SHOWN. EXISTING LOAD INFORMATION FOR PANELS WAS UNAVAILABLE AT THE TIME OF DESIGN. "PANEL TOTALS" REPRESENT LOAD ADDED TO PANEL.
3. IF SPACE ALLOCATED FOR NEW LOADS IS NOT AVAILABLE DURING CONSTRUCTION, CONTACT THE DOR.
4. DEMAND LOAD CALCULATIONS WERE DONE USING EXISTING INFORMATION FROM PROVIDED AS-BUILTS, SITE OBSERVATIONS, AND PHOTOS. PANELS WITH NEW LOADS ADDED WERE SELECTED USING THE DEMAND LOAD ESTIMATES.
5. PANEL AIC RATINGS SHOWN WERE DONE USING EXISTING INFORMATION FROM PROVIDED AS-BUILTS, SITE OBSERVATIONS, AND PHOTOS. CONTRACTOR TO VERIFY AIC RATING BEFORE ADDING NEW BREAKERS.

PANEL SCHEDULE KEY PLAN

(E) EE2A	(E) CL1B	(E) CL2B
(E) NL1B-R	(E) NL2B-R	(E) NL2B

Revisions:	Date:

ARCHITECT/ENGINEER OF RECORD

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12/18/2025

Facilities Management Services

VA U.S. Department of Veterans Affairs

Drawing Title: PANEL SCHEDULES
Approved:
FOR OFFICIAL USE ONLY

Phase: FINAL BID DOCUMENTS

Project Title: EHRM INFRASTRUCTURE UPGRADES
Location: 1100 TUNNEL ROAD ASHEVILLE, NC 28805
Issue Date: 12.19.2025
Checked:
Drawn:

Project Number: 637-22-700
Building Number: BLDG 62
Drawing Number: 62-EP602
SHEET 512 of 559

12/18/2025 6:20:59 PM
Autodesk Docs://Asheville EHRM_V23/637-22-700.002 E ASH- EHRM.rvt
VA FORM 08 - 6231

Branch Panel: 112A

Location: NEW TR ROOM 112A
Supply From: (E) CL1B
Mounting: SURFACE
Enclosure: Type 1
Volts: 120/208 Wye
Phases: 3
Wires: 4
A.I.C. Rating: 10000
Mains Type: MCB
Mains Rating: 100 A
MCB Rating: 100 A

CKT	Circuit Description	Trip	Poles	Notes	A		B		C		Notes	Poles	Trip	Circuit Description	CKT
1	L21-30R LEG A, NEW TR 112A	30 A	3		3333	540						1	20 A	REC, NEW TR 112A	2
3	--	--	--	--			3333	0				1	20 A	SPARE	4
5	--	--	--	--					3333	0		1	20 A	SPARE	6
7	SPARE	30 A	3		0	0						1	20 A	SPARE	8
9	--	--	--	--			0	0				1	20 A	SPARE	10
11	--	--	--	--					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	SPD	30 A	3	1	0	0						1	20 A	SPARE	26
27	--	--	--	--			0	0				1	20 A	SPARE	28
29	--	--	--	--					0	0		1	20 A	SPARE	30
				Total Conn. Load:	3873 VA		3333 VA		3333 VA						
				Total Amps:	32 A		28 A		28 A						

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
REC,	540 VA	100.00%	540 VA		
Telecommunications Equipment	10000 VA	100.00%	10000 VA	**Total Conn. Load:**	10540 VA
				Total Est. Demand:	10540 VA
				Total Conn. Current:	29 A
				Total Est. Demand Current:	29 A

Notes:
1. PROVIDE NEW PANEL WITH INTEGRAL TYPE II SURGE PROTECTION DEVICE (SPD). PROVIDE 3-POLE BREAKER SIZED PER MANUFACTURER'S RECOMMENDATIONS AS REQUIRED.

Branch Panel: 112B

Location: NEW TR ROOM 112A
Supply From: (E) NL1B-R
Mounting: SURFACE
Enclosure: Type 1
Volts: 120/208 Wye
Phases: 3
Wires: 4
A.I.C. Rating: 10000
Mains Type: MCB
Mains Rating: 100 A
MCB Rating: 100 A

CKT	Circuit Description	Trip	Poles	Notes	A		B		C		Notes	Poles	Trip	Circuit Description	CKT
1	L21-30R LEG B, NEW TR 112A	30 A	3		3333	0						1	20 A	SPARE	2
3	--	--	--	--			3333	540				1	20 A	REC, NEW TR 112A	4
5	--	--	--	--					3333	0		1	20 A	SPARE	6
7	SPARE	30 A	3		0	0						1	20 A	SPARE	8
9	--	--	--	--			0	0				1	20 A	SPARE	10
11	--	--	--	--					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	SPD	30 A	3	1	0	0						1	20 A	SPARE	26
27	--	--	--	--			0	0				1	20 A	SPARE	28
29	--	--	--	--					0	0		1	20 A	SPARE	30
				Total Conn. Load:	3333 VA		3873 VA		3333 VA						
				Total Amps:	28 A		32 A		28 A						

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
REC,	540 VA	100.00%	540 VA		
Telecommunications Equipment	10000 VA	100.00%	10000 VA	**Total Conn. Load:**	10540 VA
				Total Est. Demand:	10540 VA
				Total Conn. Current:	29 A
				Total Est. Demand Current:	29 A

Notes:
1. PROVIDE NEW PANEL WITH INTEGRAL TYPE II SURGE PROTECTION DEVICE (SPD). PROVIDE 3-POLE BREAKER SIZED PER MANUFACTURER'S RECOMMENDATIONS AS REQUIRED.

Branch Panel: 214A

Location:
Supply From: (E) CL2B
Mounting: SURFACE
Enclosure: Type 1
Volts: 120/208 Wye
Phases: 3
Wires: 4
A.I.C. Rating: 10000
Mains Type: MCB
Mains Rating: 100 A
MCB Rating: 100 A

CKT	Circuit Description	Trip	Poles	Notes	A		B		C		Notes	Poles	Trip	Circuit Description	CKT
1	L21-30R LEG A, NEW TR ROOM 214	30 A	3		3333	540						1	20 A	REC, NEW TR ROOM 214	2
3	--	--	--	--			3333	0				1	20 A	SPARE	4
5	--	--	--	--					3333	0		1	20 A	SPARE	6
7	SPARE	30 A	3		0	0						1	20 A	SPARE	8
9	--	--	--	--			0	0				1	20 A	SPARE	10
11	--	--	--	--					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	SPD	30 A	3	1	0	0						1	20 A	SPARE	26
27	--	--	--	--			0	0				1	20 A	SPARE	28
29	--	--	--	--					0	0		1	20 A	SPARE	30
				Total Conn. Load:	3873 VA		3333 VA		3333 VA						
				Total Amps:	32 A		28 A		28 A						

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
REC,	540 VA	100.00%	540 VA		
Telecommunications Equipment	10000 VA	100.00%	10000 VA	**Total Conn. Load:**	10540 VA
				Total Est. Demand:	10540 VA
				Total Conn. Current:	29 A
				Total Est. Demand Current:	29 A

Notes:
1. PROVIDE NEW PANEL WITH INTEGRAL TYPE II SURGE PROTECTION DEVICE (SPD). PROVIDE 3-POLE BREAKER SIZED PER MANUFACTURER'S RECOMMENDATIONS AS REQUIRED.

Branch Panel: 214B

Location:
Supply From: (E) NL2B-R
Mounting: SURFACE
Enclosure: Type 1
Volts: 120/208 Wye
Phases: 3
Wires: 4
A.I.C. Rating: 10000
Mains Type: MCB
Mains Rating: 100 A
MCB Rating: 100 A

CKT	Circuit Description	Trip	Poles	Notes	A		B		C		Notes	Poles	Trip	Circuit Description	CKT
1	L21-30R LEG B, NEW TR ROOM 214	30 A	3		3333	0						1	20 A	SPARE	2
3	--	--	--	--			3333	540				1	20 A	REC, NEW TR ROOM 214	4
5	--	--	--	--					3333	0		1	20 A	SPARE	6
7	SPARE	30 A	3		0	0						1	20 A	SPARE	8
9	--	--	--	--			0	0				1	20 A	SPARE	10
11	--	--	--	--					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	SPD	30 A	3	1	0	0						1	20 A	SPARE	26
27	--	--	--	--			0	0				1	20 A	SPARE	28
29	--	--	--	--					0	0		1	20 A	SPARE	30
				Total Conn. Load:	3333 VA		3873 VA		3333 VA						
				Total Amps:	28 A		32 A		28 A						

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
REC,	540 VA	100.00%	540 VA		
Telecommunications Equipment	10000 VA	100.00%	10000 VA	**Total Conn. Load:**	10540 VA
				Total Est. Demand:	10540 VA
				Total Conn. Current:	29 A
				Total Est. Demand Current:	29 A

Notes:
1. PROVIDE NEW PANEL WITH INTEGRAL TYPE II SURGE PROTECTION DEVICE (SPD). PROVIDE 3-POLE BREAKER SIZED PER MANUFACTURER'S RECOMMENDATIONS AS REQUIRED.

GENERAL NOTES:

1. REFER TO 00-E001 FOR GENERAL NOTES AND LEGENDS.
2. ADDITIONAL LOAD TO BE ADDED TO PANELS AS SHOWN. EXISTING LOAD INFORMATION FOR PANELS WAS UNAVAILABLE AT THE TIME OF DESIGN. "PANEL TOTALS" REPRESENT LOAD ADDED TO PANEL.
3. IF SPACE ALLOCATED FOR NEW LOADS IS NOT AVAILABLE DURING CONSTRUCTION, CONTACT THE DOR.
4. DEMAND LOAD CALCULATIONS WERE DONE USING EXISTING INFORMATION FROM PROVIDED AS-BUILTS, SITE OBSERVATIONS, AND PHOTOS. PANELS WITH NEW LOADS ADDED WERE SELECTED USING THE DEMAND LOAD ESTIMATES.
5. PANEL AIC RATINGS SHOWN WERE DONE USING EXISTING INFORMATION FROM PROVIDED AS-BUILTS, SITE OBSERVATIONS, AND PHOTOS. CONTRACTOR TO VERIFY AIC RATING BEFORE ADDING NEW BREAKERS.

PANEL SCHEDULE KEY PLAN

112A	112B	214A
214B	-	-

Revisions:	Date:

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12/18/2025

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VA U.S. Department of Veterans Affairs

Drawing Title: PANEL SCHEDULES
Phase: FINAL BID DOCUMENTS
Project Title: EHRM INFRASTRUCTURE UPGRADES
Project Number: 637-22-700
Building Number: BLDG 62
Approved:
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Location: 1100 TUNNEL ROAD ASHEVILLE, NC 28805
Issue Date: 12.19.2025
Checked:
Drawn:
Drawing Number: 62-EP603
SHEET 513 of 559

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1 TELECOMMUNICATIONS BASEMENT DEMOLITION
1/8" = 1'-0"

SHEET NOTES:

GENERAL NOTES:

1. REFER TO 00-T001 FOR GENERAL NOTES AND LEGENDS.
2. ALL EXISTING CABLES AND INFRASTRUCTURE NOT CAT6A RATED TO BE DEMOLISHED.
3. CONTRACTOR TO VERIFY ALL DATA OUTLET LOCATIONS IN THE FIELD.
4. THE QUANTITY OF TELECOM DROPS TO BE REMOVED, INSTALLED, AND MAINTAINED IS BASED ON THE INFORMATION KNOWN AT THE TIME OF DESIGN. PRIOR TO CONSTRUCTION, TELECOM DROP LOCATIONS SHALL BE SURVEYED. ANY DISCREPANCIES SHALL BE PROVIDED TO THE DOR IMMEDIATELY.
5. EXISTING ROUTING FOR TELECOM DROPS TO REMAIN SHALL BE MAINTAINED TO THE FULLEST EXTENT.
6. DEMOLITION DETAILS (IN NO PARTICULAR ORDER):
   A. REFER TO ENLARGED PLANS FOR ADDITIONAL REQUIREMENTS.
   B. CABLE CAT6 AND BELOW HORIZONTAL CABLE SHALL BE REMOVED FROM EXISTING PATCH PANELS BACK TO FINAL DATA JACK LOCATIONS. CABLE SHALL BE REMOVED BETWEEN EXISTING SWITCH AND PATCH PANEL.
   C. PATCH PANELS CURRENTLY NOT DESIGNED FOR CAT6A CABLE SHALL BE REMOVED.
   D. WALL PLATES AND RJ-45 JACKS FOR WALL OUTLET BOXES FOR CAT5E, 6 AND BELOW CABLE SHALL BE REMOVED.
   E. DATA RACKS SHALL BE REMOVED.
   F. HORIZONTAL AND VERTICAL CABLE MANAGEMENT FOR RACKS SHALL BE REMOVED IF APPLICABLE.
   G. WALL MOUNTED FIBER BOXES SHALL BE REMOVED.
   H. FIBER CABLE AND ENCLOSURES SHALL BE REMOVED BACK TO SOURCE AFTER ALL NEW FIBER CONNECTIONS IN THIS BUILDING HAVE BEEN CONNECTED. PRIOR TO DEMOLITION, COORDINATE WITH VA COR TO ENSURE ALL FIBER IS INACTIVE BEFORE DEMOLITION.
   I. EXISTING CABLE TRAY TO REMAIN.
   J. COPPER PHONE PUNCH DOWN BLOCKS SHALL REMAIN UNLESS OTHERWISE NOTED.
7. DEMOLISH ALL TELECOMMUNICATIONS CABLE THAT IS NOT TERMINATED AT BOTH ENDS AT A CONNECTOR OR OTHER EQUIPMENT AND NOT IDENTIFIED 'FOR FUTURE USE' WITH A TAG. ENSURE DEMOLITION OF ABANDONED CABLE WILL NOT DISRUPT VA OPERATIONS PRIOR TO REMOVAL. WHERE DISRUPTION OF SERVICE OCCURS DUE TO DEMOLISHED CABLE, NEW CABLE SHALL BE INSTALLED TO RESTORE THE SYSTEM AT THE CONTRACTOR'S EXPENSE.
8. PRIOR TO DEMOLITION, COORDINATE DISPOSAL WITH VA. ALL VA STANDARDS, EPA STANDARDS AND LOCAL STANDARDS MUST BE FOLLOWED WHEN DISPOSING OF ASBESTOS EXPOSED ITEMS.

PLAN NORTH N

1/8" = 1'-0" 5 0 5 10 15 20 SCALE FEET

Revisions:	Date:

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Drawing Title	Phase	Project Title	Project Number
TELECOMMUNICATIONS DEMOLITION BASEMENT	FINAL BID DOCUMENTS	EHRM INFRASTRUCTURE UPGRADES	637-22-700
Approved:		Location: 1100 TUNNEL ROAD, ASHEVILLE, NC 28805	Building Number: BLDG 62
FOR OFFICIAL USE ONLY		Issue Date: 12.19.2025 / Checked / Drawn	Drawing Number: 62-TD100
			SHEET 514 of 559

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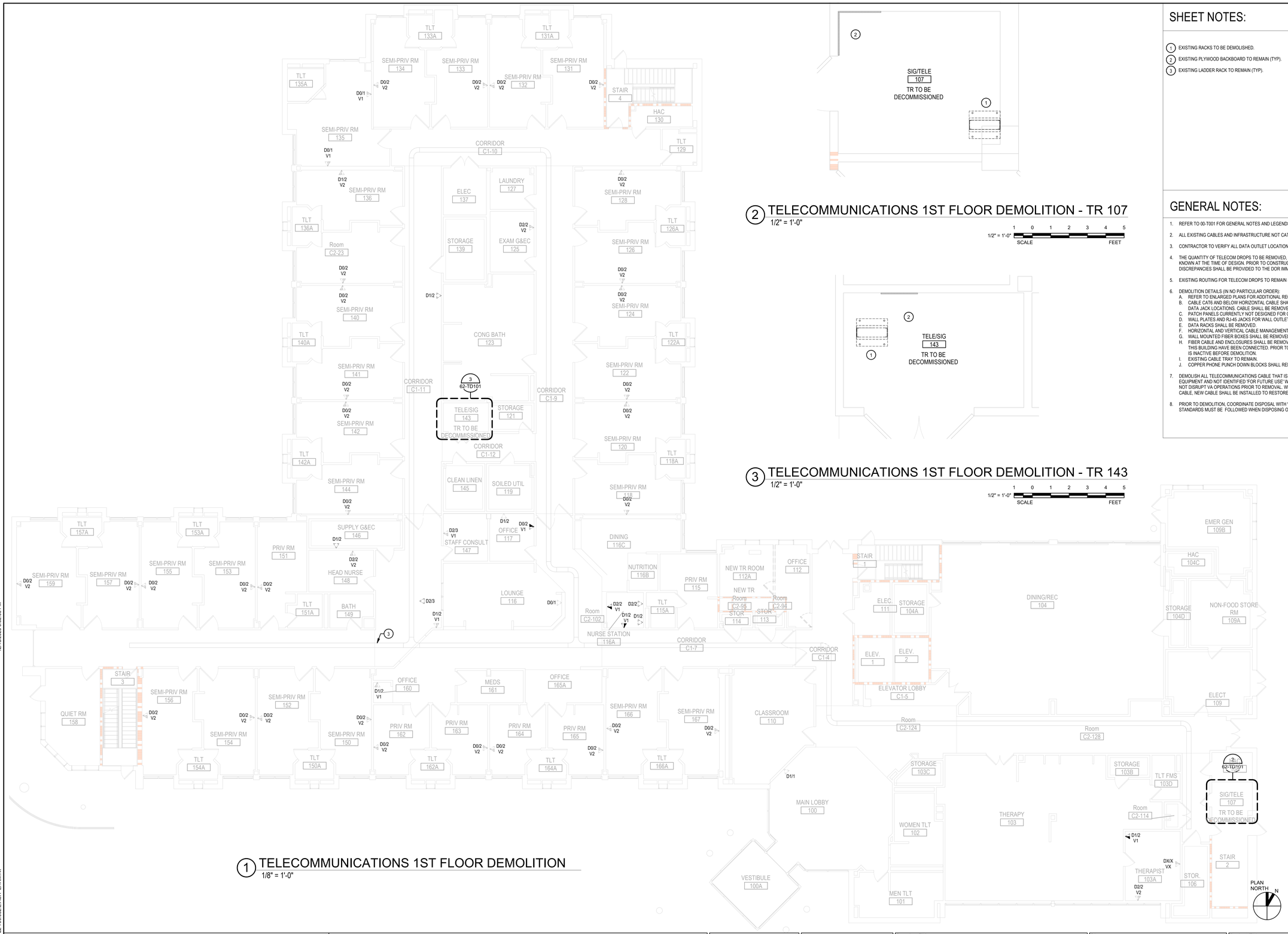

1 TELECOMMUNICATIONS 1ST FLOOR DEMOLITION
1/8" = 1'-0"

2 TELECOMMUNICATIONS 1ST FLOOR DEMOLITION - TR 107
1/2" = 1'-0"

3 TELECOMMUNICATIONS 1ST FLOOR DEMOLITION - TR 143
1/2" = 1'-0"

SHEET NOTES:

1. EXISTING RACKS TO BE DEMOLISHED.
2. EXISTING PLYWOOD BACKBOARD TO REMAIN (TYP).
3. EXISTING LADDER RACK TO REMAIN (TYP).

GENERAL NOTES:

1. REFER TO 00-T001 FOR GENERAL NOTES AND LEGENDS.
2. ALL EXISTING CABLES AND INFRASTRUCTURE NOT CAT6A RATED TO BE DEMOLISHED.
3. CONTRACTOR TO VERIFY ALL DATA OUTLET LOCATIONS IN THE FIELD.
4. THE QUANTITY OF TELECOM DROPS TO BE REMOVED, INSTALLED, AND MAINTAINED IS BASED ON THE INFORMATION KNOWN AT THE TIME OF DESIGN. PRIOR TO CONSTRUCTION, TELECOM DROP LOCATIONS SHALL BE SURVEYED. ANY DISCREPANCIES SHALL BE PROVIDED TO THE DOR IMMEDIATELY.
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   H. FIBER CABLE AND ENCLOSURES SHALL BE REMOVED BACK TO SOURCE AFTER ALL NEW FIBER CONNECTIONS IN THIS BUILDING HAVE BEEN CONNECTED. PRIOR TO DEMOLITION, COORDINATE WITH VA COR TO ENSURE ALL FIBER IS INACTIVE BEFORE DEMOLITION.
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8. PRIOR TO DEMOLITION, COORDINATE DISPOSAL WITH VA. ALL VA STANDARDS, EPA STANDARDS AND LOCAL STANDARDS MUST BE FOLLOWED WHEN DISPOSING OF ASBESTOS EXPOSED ITEMS.

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VA U.S. Department of Veterans Affairs

Drawing Title: TELECOMMUNICATIONS DEMOLITION 1ST FLOOR

Approved:

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Phase: FINAL BID DOCUMENTS

Project Title: EHRM INFRASTRUCTURE UPGRADES

Project Number: 637-22-700

Building Number: BLDG 62

Location: 1100 TUNNEL ROAD ASHEVILLE, NC 28805

Issue Date: 12.19.2025

Checked:

Drawn:

Drawing Number: 62-TD101

SHEET 515 of 559

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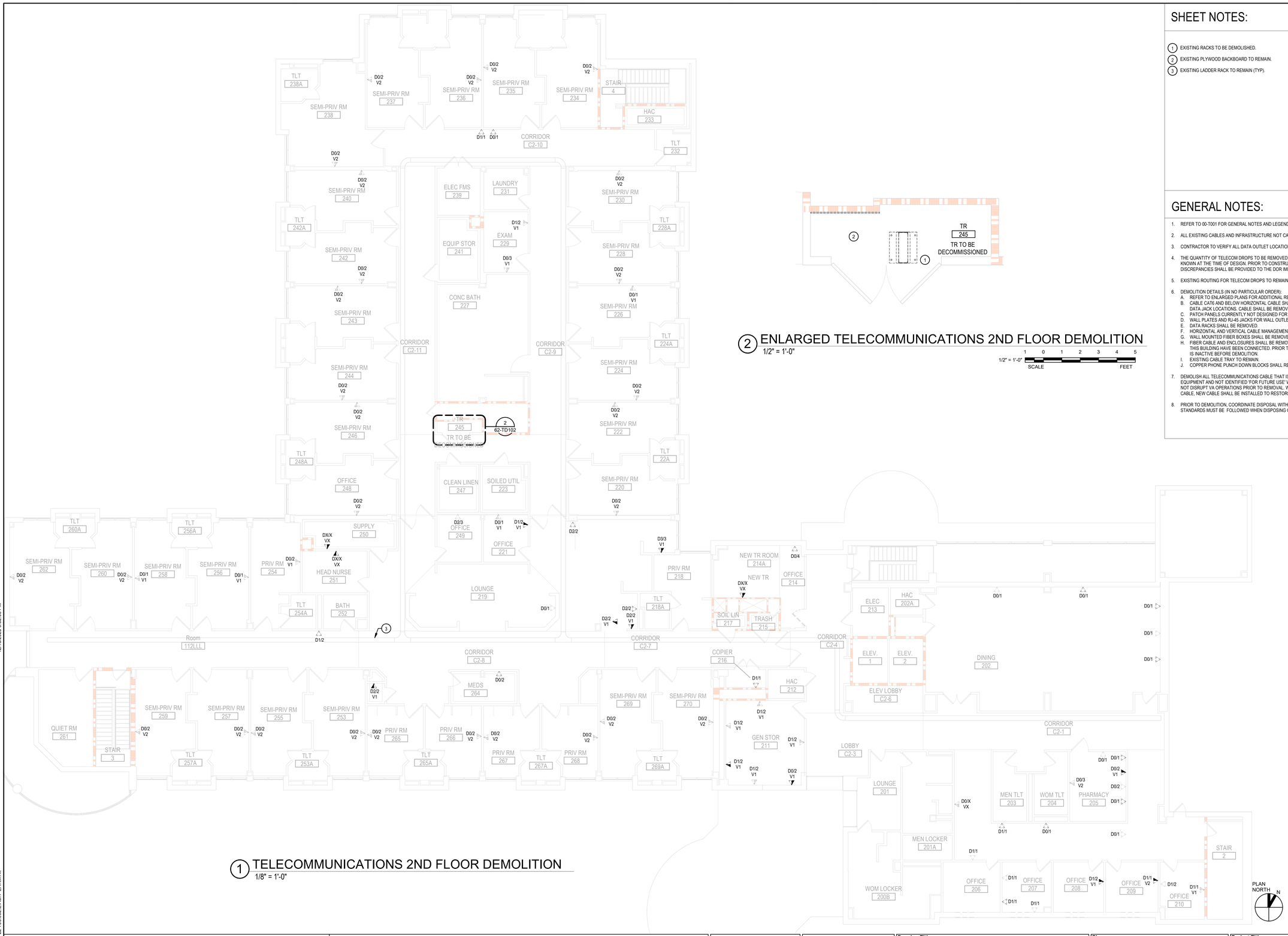

1 TELECOMMUNICATIONS 2ND FLOOR DEMOLITION

1/8" = 1'-0"

2 ENLARGED TELECOMMUNICATIONS 2ND FLOOR DEMOLITION

1/2" = 1'-0"

1/2" = 1'-0" SCALE 1 0 1 2 3 4 5 FEET

1/8" = 1'-0" SCALE 5 0 5 10 15 20 FEET

PLAN NORTH N

SHEET NOTES:

1. EXISTING RACKS TO BE DEMOLISHED.
2. EXISTING PLYWOOD BACKBOARD TO REMAIN.
3. EXISTING LADDER RACK TO REMAIN (TYP).

GENERAL NOTES:

1. REFER TO 00-T001 FOR GENERAL NOTES AND LEGENDS.
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4. THE QUANTITY OF TELECOM DROPS TO BE REMOVED, INSTALLED, AND MAINTAINED IS BASED ON THE INFORMATION KNOWN AT THE TIME OF DESIGN. PRIOR TO CONSTRUCTION, TELECOM DROP LOCATIONS SHALL BE SURVEYED. ANY DISCREPANCIES SHALL BE PROVIDED TO THE DOR IMMEDIATELY.
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   I. EXISTING CABLE TRAY TO REMAIN.
   J. COPPER PHONE PUNCH DOWN BLOCKS SHALL REMAIN UNLESS OTHERWISE NOTED.
7. DEMOLISH ALL TELECOMMUNICATIONS CABLE THAT IS NOT TERMINATED AT BOTH ENDS AT A CONNECTOR OR OTHER EQUIPMENT AND NOT IDENTIFIED 'FOR FUTURE USE' WITH A TAG. ENSURE DEMOLITION OF ABANDONED CABLE WILL NOT DISRUPT VA OPERATIONS PRIOR TO REMOVAL. WHERE DISRUPTION OF SERVICE OCCURS DUE TO DEMOLISHED CABLE, NEW CABLE SHALL BE INSTALLED TO RESTORE THE SYSTEM AT THE CONTRACTOR'S EXPENSE.
8. PRIOR TO DEMOLITION, COORDINATE DISPOSAL WITH VA. ALL VA STANDARDS, EPA STANDARDS AND LOCAL STANDARDS MUST BE FOLLOWED WHEN DISPOSING OF ASBESTOS EXPOSED ITEMS.

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VA U.S. Department of Veterans Affairs

Drawing Title	Phase	Project Title	Project Number
TELECOMMUNICATIONS DEMOLITION 2ND FLOOR	FINAL BID DOCUMENTS	EHRM INFRASTRUCTURE UPGRADES	637-22-700
Approved: FOR OFFICIAL USE ONLY		Location: 1100 TUNNEL ROAD ASHEVILLE, NC 28805	Building Number: BLDG 62
		Issue Date: 12.19.2025 / Checked / Drawn	Drawing Number: 62-TD102
			SHEET 516 of 559

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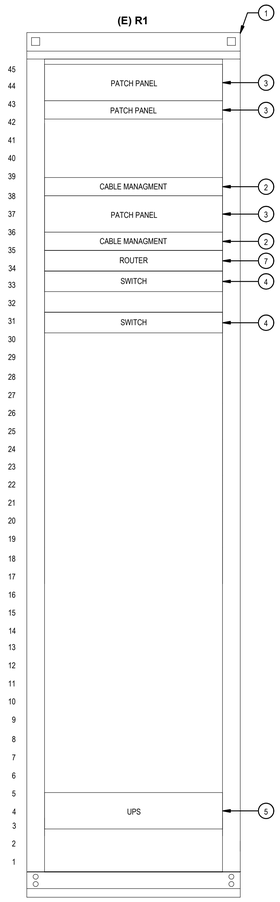
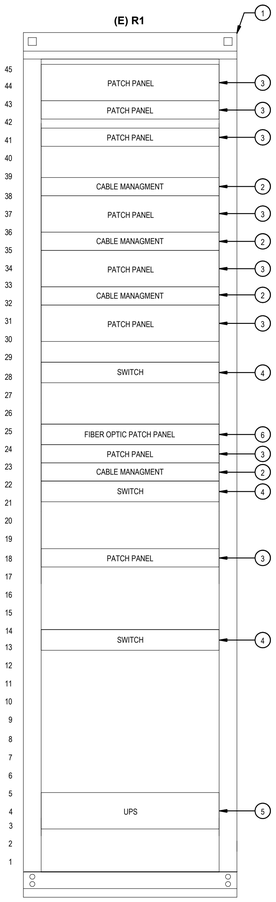


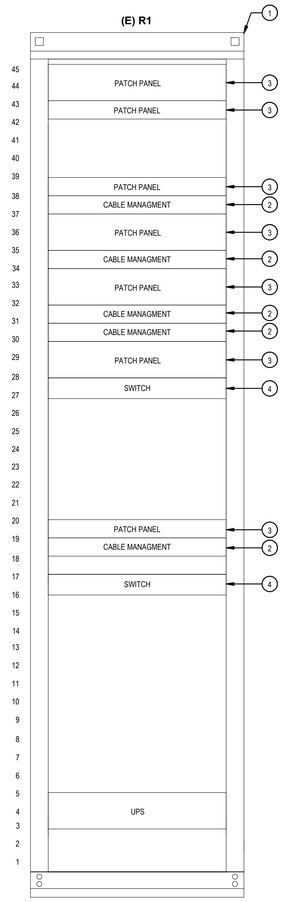
HORIZONTAL CABLES	53
PATCH CORD	43
TOTAL PORTS	(48 x 2) + (24 x 1) = 120

1 (E) ROOM 107 RACK ELEVATION
N.T.S.



HORIZONTAL CABLES	168
PATCH CORD	66
TOTAL PORTS	(48 x 4) + (24 x 4) = 288

2 (E) ROOM 143 RACK ELEVATION
N.T.S.



HORIZONTAL CABLES	199
PATCH CORD	75
TOTAL PORTS	(48 x 4) + (24 x 3) = 264

3 (E) ROOM 245 RACK ELEVATION
N.T.S.

SHEET NOTES:

1. 45U 2-POST RACK TO BE DEMOLISHED.
2. WIRE MANAGEMENT TO BE DEMOLISHED.
3. COPPER PATCH PANEL AND CABLES TO BE DEMOLISHED.
4. SWITCH TO BE DECOMMISSIONED. COORDINATE EQUIPMENT TURN OVER WITH VA OIT.
5. UPS TO BE DECOMMISSIONED. COORDINATE EQUIPMENT TURN OVER WITH VA OIT.
6. FIBER OPTIC PATCH PANEL AND CABLES TO BE DEMOLISHED.
7. ROUTER TO BE DECOMMISSIONED. COORDINATE EQUIPMENT TURN OVER WITH VA OIT.

Revisions:	Date:

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Drawing Title: TELECOMMUNICATIONS DEMOLITION RACK ELEVATIONS	Phase: FINAL BID DOCUMENTS	Project Title: EHRM INFRASTRUCTURE UPGRADES	Project Number: 637-22-700
			Building Number: BLDG 62
Approved: FOR OFFICIAL USE ONLY		Location: 1100 TUNNEL ROAD ASHEVILLE, NC 28805	Drawing Number: 62-TD601
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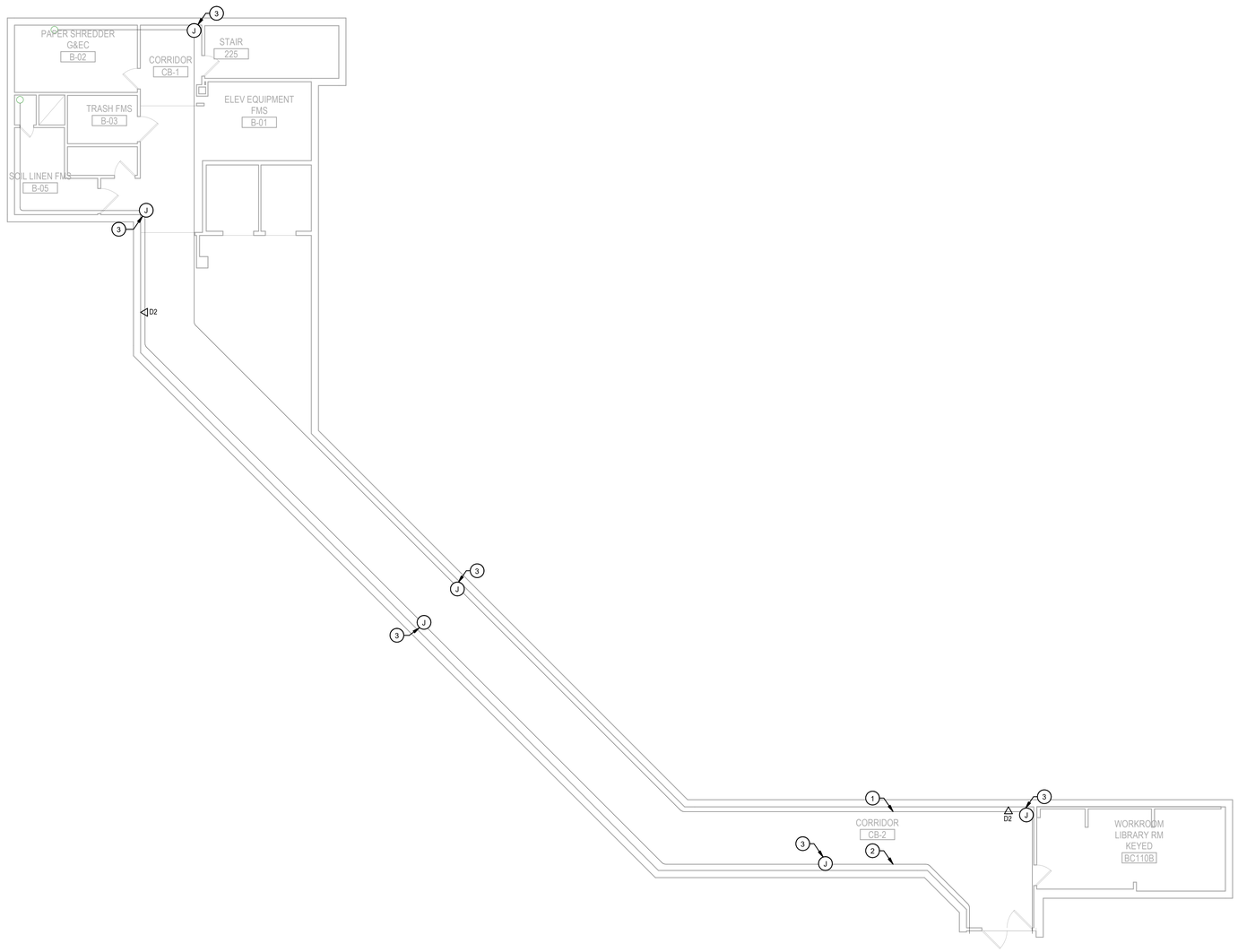

1 TELECOMMUNICATIONS BASEMENT PLAN
1/8" = 1'-0"

SHEET NOTES:

1. 1-4"C FROM BUILDING 47 TO TR 112A FOR "A SIDE" FIBER:
PROVIDE 1-4"C CONTAINING THREE (3) 1" CORRUGATED INNERDUCT WITH 2-24ST OS2 FIBER FROM THE "A SIDE" MDA IN THE DATA CENTER OF BUILDING 47 TO TR 112A AND 214 IN BUILDING 2. CONTRACTOR TO ROUTE CONDUITS THROUGH THE BASEMENT IN FIELD TO AVOID OBSTRUCTIONS AND MINIMIZE DISTURBANCE TO USERS. REFER TO 00-TS100 FOR ADDITIONAL INFORMATION.

2. 1-4"C FROM BUILDING 47 TO TR 214 FOR "B SIDE" FIBER:
PROVIDE 1-4"C CONTAINING THREE (3) 1" CORRUGATED INNERDUCT WITH 2-24ST OS2 FIBER FROM THE "B SIDE" MDA IN THE DATA CENTER OF BUILDING 47 TO TR 112A AND 214 IN BUILDING 2. CONTRACTOR TO ROUTE CONDUITS THROUGH THE BASEMENT IN FIELD TO AVOID OBSTRUCTIONS AND MINIMIZE DISTURBANCE TO USERS. REFER TO 00-TS100 FOR ADDITIONAL INFORMATION.

3. PROVIDE NEW JUNCTION BOX.

GENERAL NOTES:

1. REFER TO 00-T001 FOR GENERAL NOTES AND LEGENDS.
2. ALL EXISTING CABLES AND INFRASTRUCTURE NOT CAT6A RATED TO BE REPLACED WITH CAT6A CABLING.
3. CONTRACTOR TO VERIFY ALL DATA OUTLET LOCATIONS IN THE FIELD.
4. THE QUANTITY OF TELECOM DROPS TO BE REMOVED, INSTALLED, AND MAINTAINED IS BASED ON THE INFORMATION KNOWN AT THE TIME OF DESIGN. PRIOR TO CONSTRUCTION, TELECOM DROP LOCATIONS SHALL BE SURVEYED. ANY DISCREPANCIES SHALL BE PROVIDED TO THE VA COR IMMEDIATELY.
5. WHERE DROP CEILING TILES ARE DISTURBED FOR INSTALLATION OF TELECOMMUNICATIONS CABLE, INNERDUCT, CABLE TRAY, ETC., ENSURE ALL DUST AND PARTICLES ARE CLEANED PRIOR TO LEAVING THE DISTURBED AREA. PROVIDE NEW DROP CEILING TILES WHERE TILES ARE DAMAGED DURING CONSTRUCTION.
6. ALL ROUTING FOR NEW BACKBONE CABLE SHALL BE ROUTED IN CORRUGATED INNERDUCT.
7. ALL EXISTING DATA DROPS TO BE REFED FROM THE NEW CABINET ON THE CORRESPONDING FLOOR. IF THERE ARE EXISTING DATA DROPS IN THE BASEMENT, THEN THEY ARE TO BE FED FROM THE FIRST FLOOR CABINET.
8. PROVIDE WIRE BASKET STYLE CABLE TRAY FOR HORIZONTAL DISTRIBUTION.

PARTITION LEGEND

- FIRE BARRIER, 2 HR
- FIRE BARRIER, 1 HR
- SMOKE BARRIER, 1/2 HR
- SMOKE RESISTIVE HAZARDOUS
- PATIENT SUIT/ NON SLEEPING

PLAN NORTH N

1/8" = 1'-0" 5 0 5 10 15 20 SCALE FEET

Revisions:	Date:

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Facilities Management Services

VA U.S. Department of Veterans Affairs

Drawing Title	Phase	Project Title	Project Number
TELECOMMUNICATIONS BASEMENT PLAN	FINAL BID DOCUMENTS	EHRM INFRASTRUCTURE UPGRADES	637-22-700
Approved:		Location: 1100 TUNNEL ROAD, ASHEVILLE, NC 28805	Building Number: BLDG 62
FOR OFFICIAL USE ONLY		Issue Date: 12.19.2025 / Checked / Drawn	Drawing Number: 62-TN100
			SHEET 518 of 559

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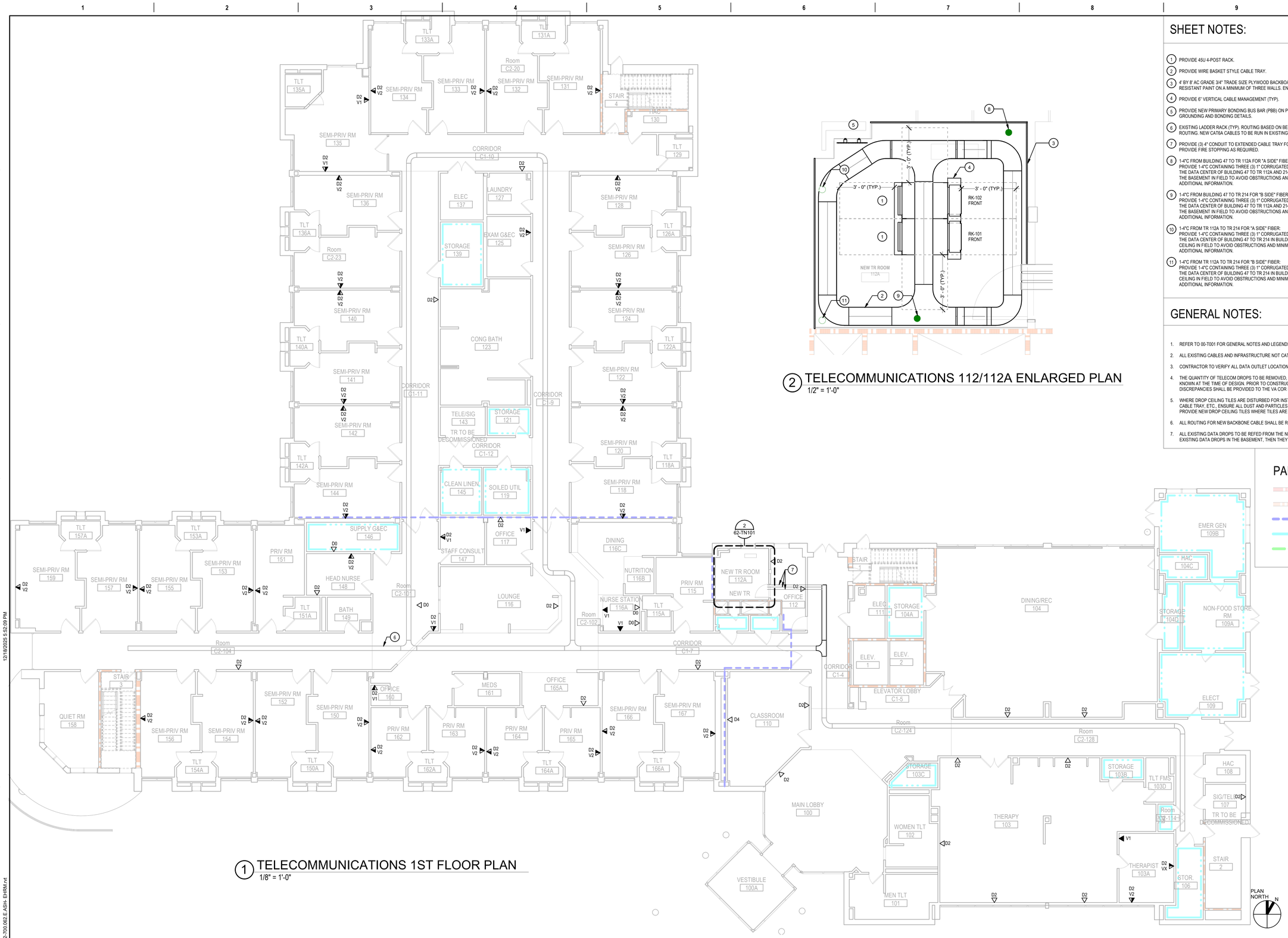

1 TELECOMMUNICATIONS 1ST FLOOR PLAN
1/8" = 1'-0"

2 TELECOMMUNICATIONS 112/112A ENLARGED PLAN
1/2" = 1'-0"

SHEET NOTES:

1. PROVIDE 45U 4-POST RACK.
2. PROVIDE WIRE BASKET STYLE CABLE TRAY.
3. 4' BY 8' AC GRADE 3/4" TRADE SIZE PLYWOOD BACKBOARD PAINTED HIGH-GLOSS WHITE WITH TWO COATS OF FIRE RESISTANT PAINT ON A MINIMUM OF THREE WALLS. ENSURE INSTALLATION HAS NO GAPS.
4. PROVIDE 6" VERTICAL CABLE MANAGEMENT (TYP).
5. PROVIDE NEW PRIMARY BONDING BUS BAR (PBB) ON PLYWOOD BACKBOARD. REFER TO SHEET 00-T501 FOR GROUNDING AND BONDING DETAILS.
6. EXISTING LADDER RACK (TYP). ROUTING BASED ON BEST AVAILABLE INFORMATION, CONTRACTOR TO FIELD VERIFY ROUTING. NEW CAT6A CABLES TO BE RUN IN EXISTING LADDER RACK.
7. PROVIDE (3) 4" CONDUIT TO EXTENDED CABLE TRAY FOR HORIZONTAL DISTRIBUTION TO WORK AREA OUTLETS. PROVIDE FIRE STOPPING AS REQUIRED.
8. 1-4"C FROM BUILDING 47 TO TR 112A FOR "A SIDE" FIBER:
   PROVIDE 1-4"C CONTAINING THREE (3) 1" CORRUGATED INNERDUCT WITH 2-24ST OS2 FIBER FROM THE "A SIDE" MDA IN THE DATA CENTER OF BUILDING 47 TO TR 112A AND 214 IN BUILDING 2. CONTRACTOR TO ROUTE CONDUITS THROUGH THE BASEMENT IN FIELD TO AVOID OBSTRUCTIONS AND MINIMIZE DISTURBANCE TO USERS. REFER TO 00-TS100 FOR ADDITIONAL INFORMATION.
9. 1-4"C FROM BUILDING 47 TO TR 214 FOR "B SIDE" FIBER:
   PROVIDE 1-4"C CONTAINING THREE (3) 1" CORRUGATED INNERDUCT WITH 2-24ST OS2 FIBER FROM THE "B SIDE" MDA IN THE DATA CENTER OF BUILDING 47 TO TR 112A AND 214 IN BUILDING 2. CONTRACTOR TO ROUTE CONDUITS THROUGH THE BASEMENT IN FIELD TO AVOID OBSTRUCTIONS AND MINIMIZE DISTURBANCE TO USERS. REFER TO 00-TS100 FOR ADDITIONAL INFORMATION.
10. 1-4"C FROM TR 112A TO TR 214 FOR "A SIDE" FIBER:
    PROVIDE 1-4"C CONTAINING THREE (3) 1" CORRUGATED INNERDUCT WITH 1-24ST OS2 FIBER FROM THE "A SIDE" MDA IN THE DATA CENTER OF BUILDING 47 TO TR 214 IN BUILDING 2. CONTRACTOR TO ROUTE CONDUITS THROUGH THE TR CEILING IN FIELD TO AVOID OBSTRUCTIONS AND MINIMIZE DISTURBANCE TO USERS. REFER TO 00-TS100 FOR ADDITIONAL INFORMATION.
11. 1-4"C FROM TR 112A TO TR 214 FOR "B SIDE" FIBER:
    PROVIDE 1-4"C CONTAINING THREE (3) 1" CORRUGATED INNERDUCT WITH 1-24ST OS2 FIBER FROM THE "B SIDE" MDA IN THE DATA CENTER OF BUILDING 47 TO TR 214 IN BUILDING 2. CONTRACTOR TO ROUTE CONDUITS THROUGH THE TR CEILING IN FIELD TO AVOID OBSTRUCTIONS AND MINIMIZE DISTURBANCE TO USERS. REFER TO 00-TS100 FOR ADDITIONAL INFORMATION.

GENERAL NOTES:

1. REFER TO 00-T001 FOR GENERAL NOTES AND LEGENDS.
2. ALL EXISTING CABLES AND INFRASTRUCTURE NOT CAT6A RATED TO BE REPLACED WITH CAT6A CABLING.
3. CONTRACTOR TO VERIFY ALL DATA OUTLET LOCATIONS IN THE FIELD.
4. THE QUANTITY OF TELECOM DROPS TO BE REMOVED, INSTALLED, AND MAINTAINED IS BASED ON THE INFORMATION KNOWN AT THE TIME OF DESIGN. PRIOR TO CONSTRUCTION, TELECOM DROP LOCATIONS SHALL BE SURVEYED. ANY DISCREPANCIES SHALL BE PROVIDED TO THE VA COR IMMEDIATELY.
5. WHERE DROP CEILING TILES ARE DISTURBED FOR INSTALLATION OF TELECOMMUNICATIONS CABLE, INNERDUCT, CABLE TRAY, ETC., ENSURE ALL DUST AND PARTICLES ARE CLEANED PRIOR TO LEAVING THE DISTURBED AREA. PROVIDE NEW DROP CEILING TILES WHERE TILES ARE DAMAGED DURING CONSTRUCTION.
6. ALL ROUTING FOR NEW BACKBONE CABLE SHALL BE ROUTED IN CORRUGATED INNERDUCT.
7. ALL EXISTING DATA DROPS TO BE REFED FROM THE NEW CABINET ON THE CORRESPONDING FLOOR. IF THERE ARE EXISTING DATA DROPS IN THE BASEMENT, THEN THEY ARE TO BE FED FROM THE FIRST FLOOR CABINET.

PARTITION LEGEND

- FIRE BARRIER, 2 HR
- FIRE BARRIER, 1 HR
- SMOKE BARRIER, 1/2 HR
- SMOKE RESISTIVE HAZARDOUS
- PATIENT SUIT/ NON SLEEPING

Revisions:	Date:

ARCHITECT/ENGINEER OF RECORD

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Facilities Management Services

VA U.S. Department of Veterans Affairs

Drawing Title: TELECOMMUNICATIONS 1ST FLOOR PLAN

Approved:

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Phase: FINAL BID DOCUMENTS

Project Title: EHRM INFRASTRUCTURE UPGRADES

Project Number: 637-22-700

Building Number: BLDG 62

Location: 1100 TUNNEL ROAD ASHEVILLE, NC 28805

Issue Date: 12.19.2025

Checked:

Drawn:

Drawing Number: 62-TN101

SHEET 519 of 559

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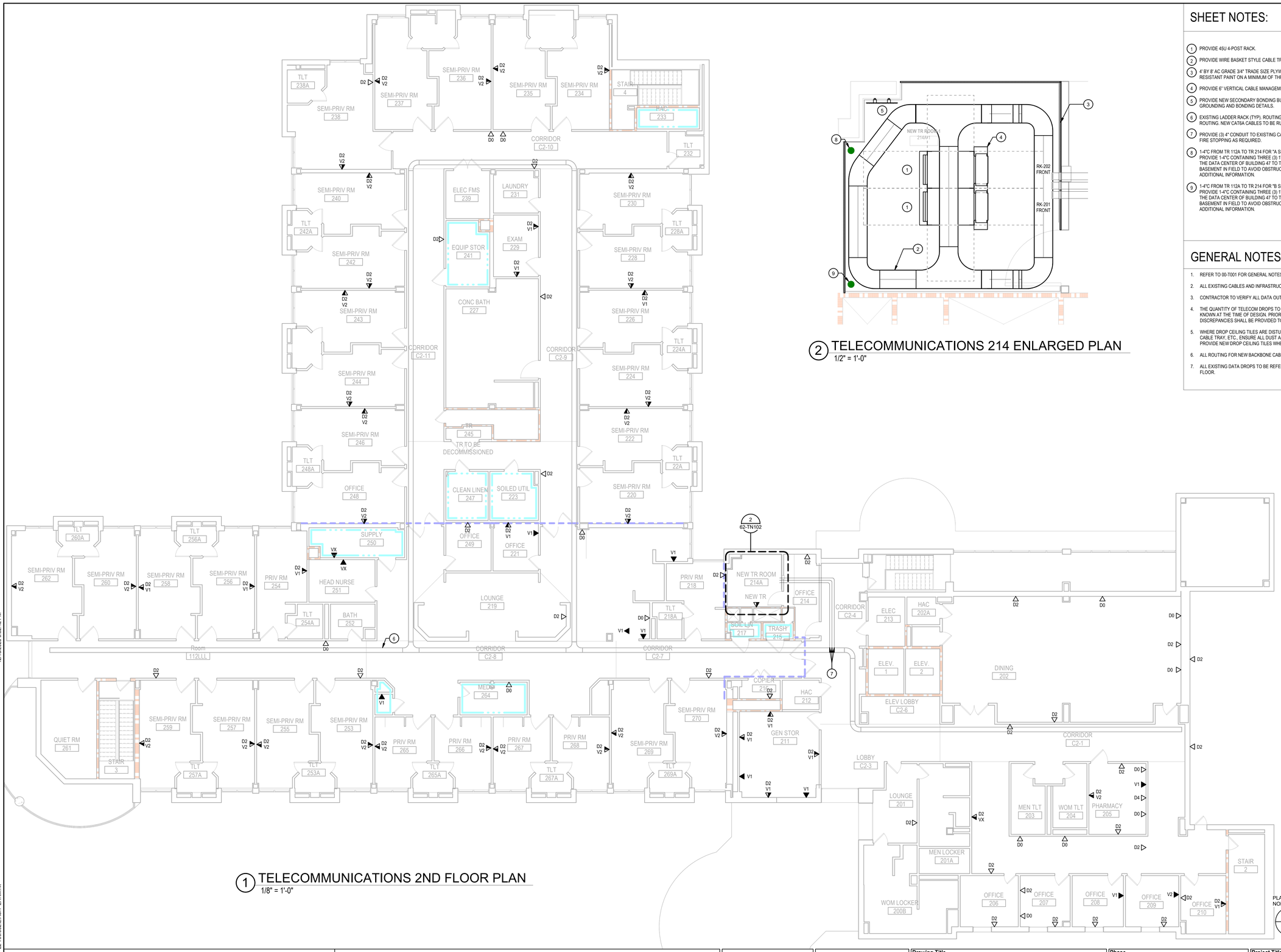

1 TELECOMMUNICATIONS 2ND FLOOR PLAN
1/8" = 1'-0"

2 TELECOMMUNICATIONS 214 ENLARGED PLAN
1/2" = 1'-0"

SHEET NOTES:

1. PROVIDE 45U 4-POST RACK.
2. PROVIDE WIRE BASKET STYLE CABLE TRAY.
3. 4' BY 8' AC GRADE 3/4" TRADE SIZE PLYWOOD BACKBOARD PAINTED HIGH-GLOSS WHITE WITH TWO COATS OF FIRE RESISTANT PAINT ON A MINIMUM OF THREE WALLS. ENSURE INSTALLATION HAS NO GAPS.
4. PROVIDE 6" VERTICAL CABLE MANAGEMENT.
5. PROVIDE NEW SECONDARY BONDING BUS BAR (SBB) ON PLYWOOD BACKBOARD. REFER TO SHEET 00-T501 FOR GROUNDING AND BONDING DETAILS.
6. EXISTING LADDER RACK (TYP). ROUTING BASED ON BEST AVAILABLE INFORMATION, CONTRACTOR TO FIELD VERIFY ROUTING. NEW CAT6A CABLES TO BE RUN IN EXISTING LADDER RACK.
7. PROVIDE (3) 4" CONDUIT TO EXISTING CABLE TRAY FOR HORIZONTAL DISTRIBUTION TO WORK AREA OUTLETS. PROVIDE FIRE STOPPING AS REQUIRED.
8. 1-4"C FROM TR 112A TO TR 214 FOR "A SIDE" FIBER:
   PROVIDE 1-4"C CONTAINING THREE (3) 1" CORRUGATED INNERDUCT WITH 1-24ST OS2 FIBER FROM THE "A SIDE" MDA IN THE DATA CENTER OF BUILDING 47 TO TR 214 IN BUILDING 2. CONTRACTOR TO ROUTE CONDUITS THROUGH THE BASEMENT IN FIELD TO AVOID OBSTRUCTIONS AND MINIMIZE DISTURBANCE TO USERS. REFER TO 00-TS100 FOR ADDITIONAL INFORMATION.
9. 1-4"C FROM TR 112A TO TR 214 FOR "B SIDE" FIBER:
   PROVIDE 1-4"C CONTAINING THREE (3) 1" CORRUGATED INNERDUCT WITH 1-24ST OS2 FIBER FROM THE "B SIDE" MDA IN THE DATA CENTER OF BUILDING 47 TO TR 214 IN BUILDING 2. CONTRACTOR TO ROUTE CONDUITS THROUGH THE BASEMENT IN FIELD TO AVOID OBSTRUCTIONS AND MINIMIZE DISTURBANCE TO USERS. REFER TO 00-TS100 FOR ADDITIONAL INFORMATION.

GENERAL NOTES:

1. REFER TO 00-T001 FOR GENERAL NOTES AND LEGENDS.
2. ALL EXISTING CABLES AND INFRASTRUCTURE NOT CAT6A RATED TO BE REPLACED WITH CAT6A CABLING.
3. CONTRACTOR TO VERIFY ALL DATA OUTLET LOCATIONS IN THE FIELD.
4. THE QUANTITY OF TELECOM DROPS TO BE REMOVED, INSTALLED, AND MAINTAINED IS BASED ON THE INFORMATION KNOWN AT THE TIME OF DESIGN. PRIOR TO CONSTRUCTION, TELECOM DROP LOCATIONS SHALL BE SURVEYED. ANY DISCREPANCIES SHALL BE PROVIDED TO THE VA COR IMMEDIATELY.
5. WHERE DROP CEILING TILES ARE DISTURBED FOR INSTALLATION OF TELECOMMUNICATIONS CABLE, INNERDUCT, CABLE TRAY, ETC., ENSURE ALL DUST AND PARTICLES ARE CLEANED PRIOR TO LEAVING THE DISTURBED AREA. PROVIDE NEW DROP CEILING TILES WHERE TILES ARE DAMAGED DURING CONSTRUCTION.
6. ALL ROUTING FOR NEW BACKBONE CABLE SHALL BE ROUTED IN CORRUGATED INNERDUCT.
7. ALL EXISTING DATA DROPS TO BE REFED FROM THE NEW FLOOR MOUNTED CABINETS ON THE CORRESPONDING FLOOR.

PARTITION LEGEND

- FIRE BARRIER, 2 HR
- FIRE BARRIER, 1 HR
- SMOKE BARRIER, 1/2 HR
- SMOKE RESISTIVE HAZARDOUS
- PATIENT SUIT/ NON SLEEPING

PLAN NORTH N

1/8" = 1'-0" SCALE 5 0 5 10 15 20 FEET

Revisions:	Date:

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VA U.S. Department of Veterans Affairs

Drawing Title: TELECOMMUNICATIONS 2ND FLOOR PLAN

Approved:

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Phase: FINAL BID DOCUMENTS

Project Title: EHRM INFRASTRUCTURE UPGRADES

Location: 1100 TUNNEL ROAD ASHEVILLE, NC 28805

Issue Date: 12.19.2025

Checked:

Drawn:

Project Number: 637-22-700

Building Number: BLDG 62

Drawing Number: 62-TN102

SHEET 520 of 559

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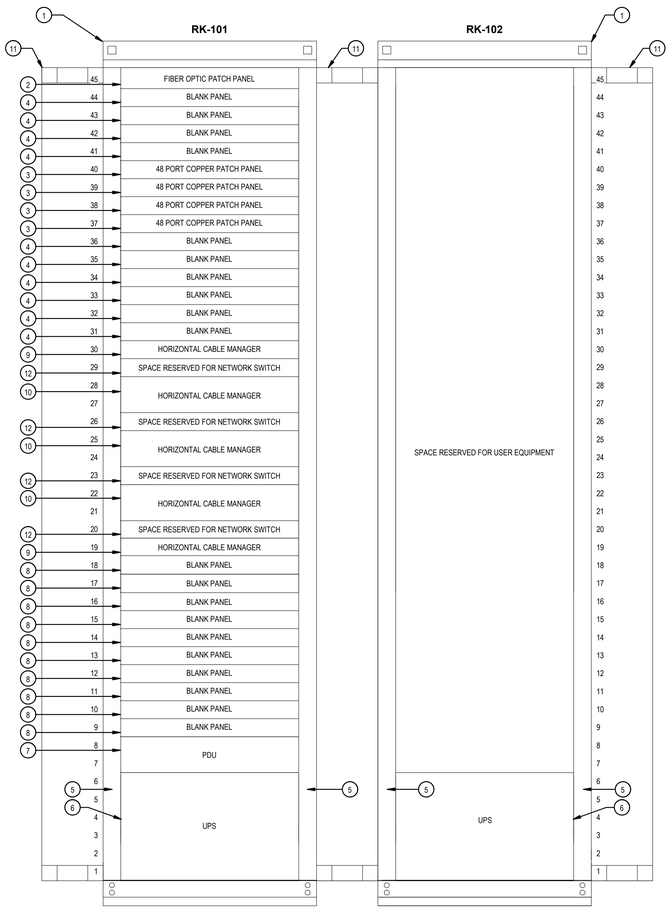
SHEET NOTES:

1. 45U FREE STANDING 4-POST RACK, 19 INCHES.
2. 144 STRAND FIBER OPTIC ANGLED PATCH PANEL WITH SPLICE KIT, LC CONNECTORS, 1U.
3. 48-PORT UTP CAT6A ANGLED PATCH PANEL AND CABLES, 1U.
4. ANGLED BLANKING PANEL, 1U.
5. RACK MOUNTED POWER DISTRIBUTION UNIT, MOUNTED VERTICALLY ON THE REAR OF THE RACK, L21-20 INPUT POWER CORD PLUG TYPE.
6. RACK MOUNTED 5KW, 208V UNINTERRUPTIBLE POWER SUPPLY, 6U.
7. RACK MOUNTED ZONE PDU, 2U.
8. FLAT BLANKING PANEL, 1U.
9. FLAT HORIZONTAL CABLE MANAGEMENT, 1U.
10. FLAT HORIZONTAL CABLE MANAGEMENT, 2U.
11. VERTICAL CABLE MANAGER, 6" WIDE ON EACH SIDE OF AND IN BETWEEN RACKS.
12. SPACE RESERVED FOR NETWORK ACCESS SWITCH, 1U. TO BE PROVIDED BY VA AND INSTALLED BY LOCAL OIT (GFGI).

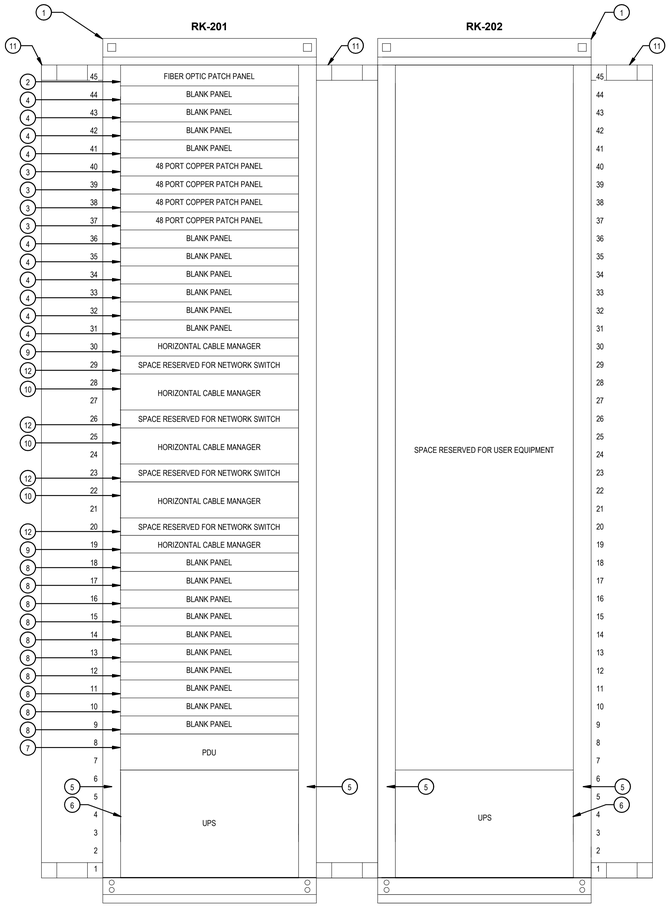
GENERAL NOTES:

1. REFER TO 00-T001 FOR GENERAL NOTES AND LEGENDS.
2. PROVIDE RACK MOUNTED GROUND BAR AT THE REAR OF EACH RACK. EXISTING RACK MOUNTED GROUND BAR MAY BE REUSED IF IT HAS SUFFICIENT BONDING SPACES, OTHERWISE PROVIDE NEW RACK MOUNTED GROUND BAR.



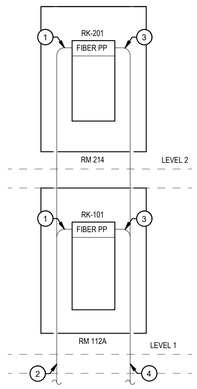
HORIZONTAL CABLES	128
HORIZONTAL CABLES + 10% OVERAGE	141
TOTAL SPARE HORIZONTAL CABLES	(48 x 4) - 141 = 51

1 TR 112A - RACK ELEVATIONS
N.T.S.



HORIZONTAL CABLES	148
HORIZONTAL CABLES + 10% OVERAGE	163
TOTAL SPARE HORIZONTAL CABLES	(48 x 4) - 163 = 29

2 TR 214A RACK ELEVATIONS
N.T.S.



DETAIL NOTES:

1. FIBER FROM CORE 1 IN BUILDING 47 LANDING ON FIBER OPTIC PATCH PANEL IN TR: (1) 24ST OS2 SINGLE MODE FIBER
2. FIBER ORIGINATING FROM CORE 1 IN BUILDING 47: (2) 24ST OS2 SINGLE MODE FIBER
3. FIBER FROM CORE 2 IN BUILDING 47 LANDING ON FIBER OPTIC PATCH PANEL IN TR: (1) 24ST OS2 SINGLE MODE FIBER
4. FIBER ORIGINATING FROM CORE 2 IN BUILDING 47: (2) 24ST OS2 SINGLE MODE FIBER

3 TELECOMMUNICATIONS RISER DIAGRAM
N.T.S.

Revisions:	Date:

ARCHITECT/ENGINEER OF RECORD

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Facilities Management Services

U.S. Department of Veterans Affairs

Drawing Title: TELECOMMUNICATIONS DIAGRAMS	Phase: FINAL BID DOCUMENTS	Project Title: EHRM INFRASTRUCTURE UPGRADES	Project Number: 637-22-700
Approved:		Location: 1100 TUNNEL ROAD ASHEVILLE, NC 28805	Building Number: BLDG 62
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SHEET 521 of 559

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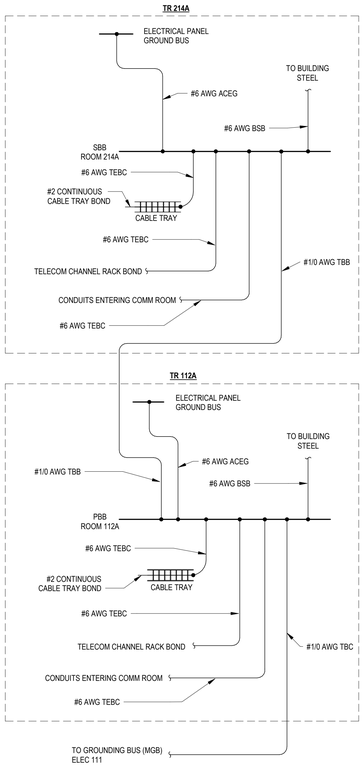

1 TELECOMMUNICATIONS GROUNDING RISER DIAGRAM
N.T.S.

GROUNDING NOTES:

1. METALLIC TELECOM RACEWAY AND EQUIPMENT SHALL BE GROUNDED. BOND RACEWAY TO NEAREST TELECOM GROUND BUS USING A TEBC, #6 AWG MINIMUM.
2. TELECOM GROUNDING SYSTEM MUST BE IN ACCORDANCE WITH TIA-607 AND THE VA DESIGN STANDARDS.
3. COAXIAL METAL SHEATH MUST BE GROUNDED AND BONDED PER NEC REQUIREMENTS.
4. TBB CONDUCTOR MUST BE SIZED BASED ON THE TABLE BELOW, SIZING OF TELECOM BONDING BACKBONE.

ACRONYMS

ACEG ALTERNATING CURRENT EQUIPMENT GROUND
BBC BACKBONE BONDING CONDUCTOR
BSB BUILDING STRUCTURE BONDING
MGB MAIN GROUNDING BUS
PBB PRIMARY BONDING BUSBAR
SBB SECONDARY BONDING BUSBAR
TBB TELECOMMUNICATIONS BACKBONE BONDING CONDUCTOR
TBC TELECOMMUNICATIONS BONDING CONDUCTOR
TEBC TELECOMMUNICATIONS EQUIPMENT BONDING CONDUCTOR

SIZING OF TELECOM BONDING BACKBONE	
TBB LINEAR FT	TBB SIZE (AWG)
<13	6
14-20	4
21-26	3
27-33	2
34-41	1
42-52	1/0
53-66	2/0
67-84	3/0
85-105	4/0
106-125	250KCMIL
126-150	300KCMIL
151-175	350KCMIL
176-250	500KCMIL
251-300	600KCMIL
>301	750KCMIL

Revisions: Date:

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Drawing Title: TELECOMMUNICATIONS RISER DIAGRAM
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Phase: FINAL BID DOCUMENTS

Project Title: EHRM INFRASTRUCTURE UPGRADES
Location: 1100 TUNNEL ROAD ASHEVILLE, NC 28805
Issue Date: 12.19.2025
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Project Number: 637-22-700
Building Number: BLDG 62
Drawing Number: 62-TN602
SHEET 522 of 559

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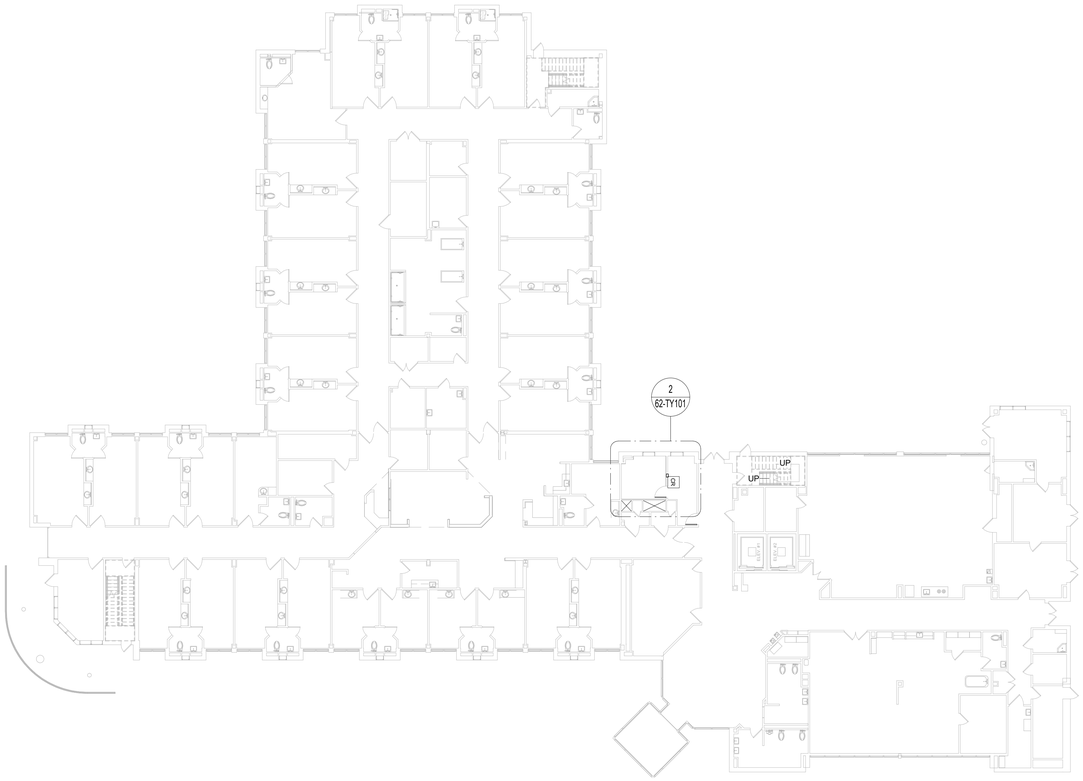
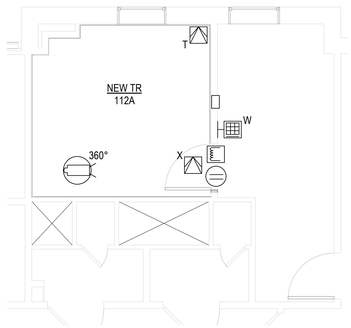


1 1ST FLOOR SECURITY PLAN

1/16" = 1'-0"

1/16" = 1'-0" SCALE 5 0 5 10 15 20 25 30 35 40 45 FEET



2 ENLARGED FLOOR PLAN

1/4" = 1'-0"

1/4" = 1'-0" SCALE 2 0 2 4 6 8 10 FEET

1/8" = 1'-0" SCALE 5 0 5 10 15 20 FEET

SHEET NOTES:

1. COORDINATE MOUNTING HEIGHTS AND INSTALLATION DETAILS WITH ARCHITECTURAL DRAWINGS.
2. BASE BUILDING SECURITY SYSTEM IS JOHNSON CONTROLS (JCI). COORDINATE SECURITY SYSTEM CABINETS, HEAD-ENDS, AND ASSOCIATED INFRASTRUCTURE TO FEED NEW CAMERA AND ACCESS CONTROL DEVICES WITH BASE BUILDING SECURITY VENDOR.
3. CONTRACTOR TO SUBMIT SHOP DRAWINGS FOR REVIEW AND APPROVAL BY AE WHICH ARE PREPARED BY BASE BUILDING SECURITY SYSTEM VENDOR. DRAWINGS TO INCLUDE ALL NECESSARY COMPONENTS AND BACK-END EQUIPMENT LOCATIONS FOR A COMPLETE AND FULLY FUNCTIONAL SYSTEM.
4. CONTRACTOR SHALL VERIFY IN FIELD EXISTING AVAILABLE NETWORK SWITCHES. NEW CAMERAS SHALL BE CONNECTED TO NEAREST AVAILABLE NETWORK SWITCH. FOR BID PURPOSES, ASSUME 300FT CABLE LENGTH FROM CAMERA TO SECURITY SWITCH.
5. ACCESS CONTROL SYSTEM: NEW ACCESS CONTROL PROVISIONS TO BE INSTALLED FOR ALL NEW, RELOCATED, OR EXPANDED TELECOM ROOMS. CONTRACTOR TO COORDINATE ALL HARDWARE AND LOCATIONS WITH BASE BUILDING SECURITY SYSTEM VENDOR AND VA STAFF.
6. SSTV SYSTEM: NEW SECURITY CAMERAS TO BE INSTALLED FOR ALL NEW, RELOCATED, OR EXPANDED TELECOM ROOMS. CONTRACTOR TO COORDINATE ALL HARDWARE AND LOCATIONS WITH BASE BUILDING SECURITY SYSTEM VENDOR AND VA STAFF.
7. ALL CONDUIT AND BACK BOXES REQUIRED FOR THE INSTALLATION OF SECURITY DEVICES AND EQUIPMENT TO BE PROVIDED BY DIV. 26 CONTRACTOR. COORDINATE WITH THE VA FACILITIES DEPARTMENT FOR EXACT LOCATION OF DEVICES.
8. REFERENCE ARCHITECTURAL SHEETS FOR ALL DOOR TYPES, ENCLOSURES, FRAME DETAILS AND PATHWAYS.
9. ALL TELECOM RACKS TO BE PROVIDED BY DIV. 27 CONTRACTOR.
10. ALL SECURITY HEAD-END EQUIPMENT IS EXISTING TO REMAIN. EXISTING CAMERAS BEING FED FROM DECOMMISSIONED TELECOM RACKS, PER TELECOM DRAWINGS AND SCOPE, SHALL BE RE-FED FROM NEW/REPLACEMENT RACKS IN NEW TELECOM ROOM LOCATION. COORDINATE WITH TELECOM DRAWINGS FOR MORE INFORMATION.
11. COORDINATE WITH DOOR HARDWARE SCHEDULE IN ARCHITECTURAL DRAWING SET FOR LOCKING MECHANISM TYPE FOR SECURITY INTEGRATION (ELECTRIC LATCH, ELECTRIC STRIKE, MAGNETIC LOCK). PROVIDE ALL HARDWARE AND ACCESSORIES NECESSARY.
12. MOTION DETECTOR REX TO BE PROGRAMMED AND INTEGRATED WITH DOOR HARDWARE TO PREVENT LOCKING OF DOOR IF ROOM IS OCCUPIED. INSTALL REX MOTION SENSOR ABOVE DOOR FRAME.
13. PROVIDE TRI-TECH MOTION SENSOR IN TR'S (SEPARATE FROM REX) FOR ROOM OCCUPANCY MONITORING TIED TO PACS SYSTEM.
14. SUBMIT COMPLETE ACCESS CONTROL AND VIDEO SURVEILLANCE SUBMITTAL PACKAGE PER SPECIFICATION SECTIONS 282300-1.5D AND 281300-1.4D.

SYMBOLS LEGEND:

- W — CARD READER WITH KEYPAD (W - WALL MTD)
- 360° — CEILING MTD. CAMERA, 360 DEGREE, W/ SUPPLEMENTAL IR RING.
- E — ELECTRONIC LOCK
- SECURITY ACCESS, SWITCH, BALANCED MAGNETIC CONTROL
- MOTION DETECTOR
  - T-ROOM OCCUPANCY MOTION SENSOR (TRI-TECH- PIR, MICROWAVE, DOPPLER)
  - X-REQUEST-TO-EXIT MOTION SENSOR (DUAL TECH- PIR, MICROWAVE)
- DPS — ACCESS CONTROL DOOR POSITION SWITCH

VENDOR CONTACT INFORMATION:

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JOHNSON CONTROLS
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BRIAN.SHALLENBERGER@JCI.COM

PLAN NORTH N

FINAL BID DOCUMENTS

Revisions:	Date:

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Facilities Management Services

VA U.S. Department of Veterans Affairs

Drawing Title	Phase	Project Title	Project Number
1ST FLOOR SECURITY PLAN	FINAL BID DOCUMENTS	EHRM INFRASTRUCTURE UPGRADES	637-22-700
Approved:		Location: 1100 TUNNEL ROAD, ASHEVILLE, NC 28805	Building Number: 62
FOR OFFICIAL USE ONLY		Issue Date: **12.19.2025** / Checked / Drawn	Drawing Number: 62-TY101

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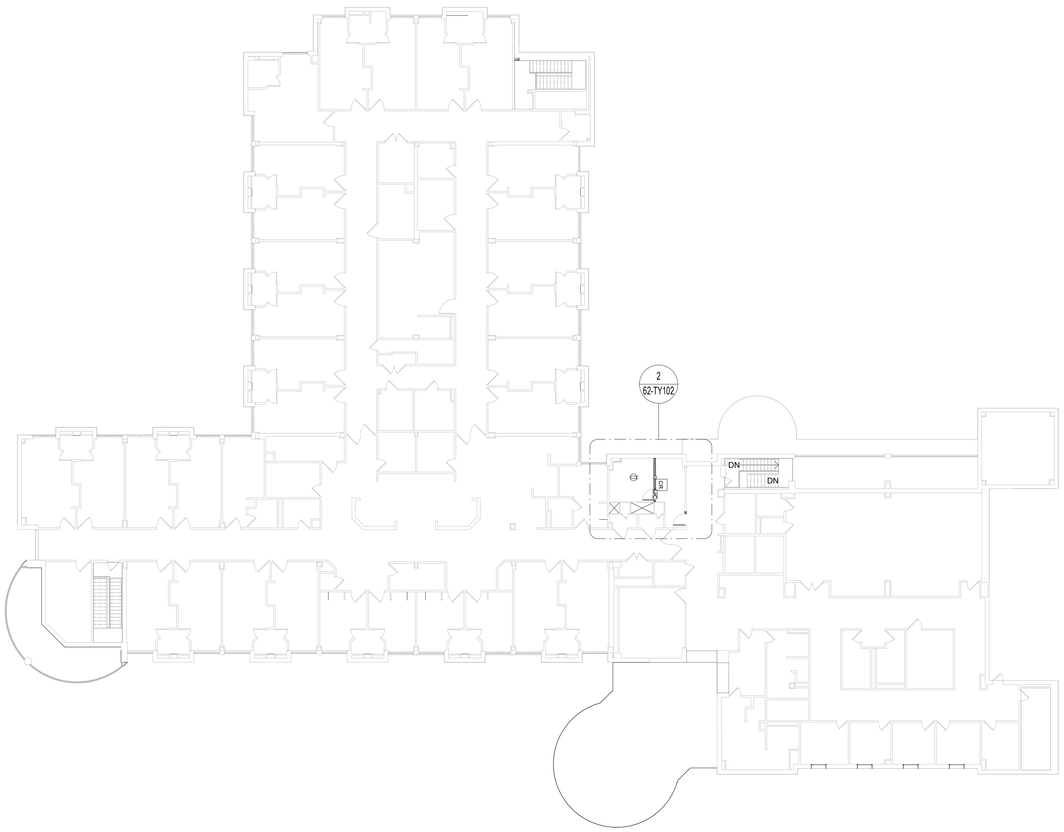
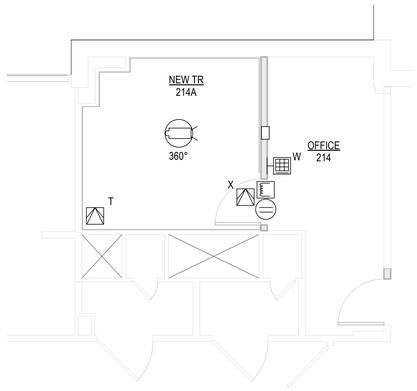


1 2ND FLOOR SECURITY PLAN
1/16" = 1'-0"

1/16" = 1'-0" SCALE 5 0 5 10 15 20 25 30 35 40 45 FEET



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

1/4" = 1'-0" SCALE 2 0 2 4 6 8 10 FEET

1/8" = 1'-0" SCALE 5 0 5 10 15 20 FEET

SHEET NOTES:

1. COORDINATE MOUNTING HEIGHTS AND INSTALLATION DETAILS WITH ARCHITECTURAL DRAWINGS.
2. BASE BUILDING SECURITY SYSTEM IS JOHNSON CONTROLS (JCI). COORDINATE SECURITY SYSTEM CABINETS, HEAD-ENDS, AND ASSOCIATED INFRASTRUCTURE TO FEED NEW CAMERA AND ACCESS CONTROL DEVICES WITH BASE BUILDING SECURITY VENDOR.
3. CONTRACTOR TO SUBMIT SHOP DRAWINGS FOR REVIEW AND APPROVAL BY AE WHICH ARE PREPARED BY BASE BUILDING SECURITY SYSTEM VENDOR. DRAWINGS TO INCLUDE ALL NECESSARY COMPONENTS AND BACK-END EQUIPMENT LOCATIONS FOR A COMPLETE AND FULLY FUNCTIONAL SYSTEM.
4. CONTRACTOR SHALL VERIFY IN FIELD EXISTING AVAILABLE NETWORK SWITCHES. NEW CAMERAS SHALL BE CONNECTED TO NEAREST AVAILABLE NETWORK SWITCH. FOR BID PURPOSES, ASSUME 300FT CABLE LENGTH FROM CAMERA TO SECURITY SWITCH.
5. ACCESS CONTROL SYSTEM: NEW ACCESS CONTROL PROVISIONS TO BE INSTALLED FOR ALL NEW, RELOCATED, OR EXPANDED TELECOM ROOMS. CONTRACTOR TO COORDINATE ALL HARDWARE AND LOCATIONS WITH BASE BUILDING SECURITY SYSTEM VENDOR AND VA STAFF.
6. SSTV SYSTEM: NEW SECURITY CAMERAS TO BE INSTALLED FOR ALL NEW, RELOCATED, OR EXPANDED TELECOM ROOMS. CONTRACTOR TO COORDINATE ALL HARDWARE AND LOCATIONS WITH BASE BUILDING SECURITY SYSTEM VENDOR AND VA STAFF.
7. ALL CONDUIT AND BACK BOXES REQUIRED FOR THE INSTALLATION OF SECURITY DEVICES AND EQUIPMENT TO BE PROVIDED BY DIV. 26 CONTRACTOR. COORDINATE WITH THE VA FACILITIES DEPARTMENT FOR EXACT LOCATION OF DEVICES.
8. REFERENCE ARCHITECTURAL SHEETS FOR ALL DOOR TYPES, ENCLOSURES, FRAME DETAILS AND PATHWAYS.
9. ALL TELECOM RACKS TO BE PROVIDED BY DIV. 27 CONTRACTOR.
10. ALL SECURITY HEAD-END EQUIPMENT IS EXISTING TO REMAIN. EXISTING CAMERAS BEING FED FROM DECOMMISSIONED TELECOM RACKS, PER TELECOM DRAWINGS AND SCOPE, SHALL BE RE-FED FROM NEW/REPLACEMENT RACKS IN NEW TELECOM ROOM LOCATION. COORDINATE WITH TELECOM DRAWINGS FOR MORE INFORMATION.
11. COORDINATE WITH DOOR HARDWARE SCHEDULE IN ARCHITECTURAL DRAWING SET FOR LOCKING MECHANISM TYPE FOR SECURITY INTEGRATION (ELECTRIC LATCH, ELECTRIC STRIKE, MAGNETIC LOCK). PROVIDE ALL HARDWARE AND ACCESSORIES NECESSARY.
12. MOTION DETECTOR REX TO BE PROGRAMMED AND INTEGRATED WITH DOOR HARDWARE TO PREVENT LOCKING OF DOOR IF ROOM IS OCCUPIED. INSTALL REX MOTION SENSOR ABOVE DOOR FRAME.
13. PROVIDE TRI-TECH MOTION SENSOR IN TR'S (SEPARATE FROM REX) FOR ROOM OCCUPANCY MONITORING TIED TO PACS SYSTEM.
14. SUBMIT COMPLETE ACCESS CONTROL AND VIDEO SURVEILLANCE SUBMITTAL PACKAGE PER SPECIFICATION SECTIONS 282300-1.5D AND 281300-1.4D.

SYMBOLS LEGEND:

- W — CARD READER WITH KEYPAD (W - WALL MTD)
- 360° — CEILING MTD. CAMERA, 360 DEGREE, W/ SUPPLEMENTAL IR RING.
- ELECTRONIC LOCK
- SECURITY ACCESS, SWITCH, BALANCED MAGNETIC CONTROL
- MOTION DETECTOR
  - T-ROOM OCCUPANCY MOTION SENSOR (TRI-TECH- PIR, MICROWAVE, DOPPLER)
  - X-REQUEST-TO-EXIT MOTION SENSOR (DUAL TECH- PIR, MICROWAVE)
- DPS — ACCESS CONTROL DOOR POSITION SWITCH

VENDOR CONTACT INFORMATION:

BRIAN SHALLENBERGER
JOHNSON CONTROLS
GREENVILLE-SPARTANBURG, SC
BRIAN.SHALLENBERGER@JCI.COM

PLAN NORTH N

FINAL BID DOCUMENTS

Revisions:	Date:

ARCHITECT/ENGINEER OF RECORD

AWEN SOLUTIONS GROUP
ARCHITECTURE | ENGINEERING | PLANNING

A/E:
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LICENSED ARCHITECT GENE HAMILTON KING LIC. NO. C-19576 REN. 07-31-27 STATE OF CALIFORNIA

Facilities Management Services

VA U.S. Department of Veterans Affairs

Drawing Title	Phase	Project Title	Project Number
2ND FLOOR SECURITY PLAN	FINAL BID DOCUMENTS	EHRM INFRASTRUCTURE UPGRADES	637-22-700
			Building Number: 62
Approved: FOR OFFICIAL USE ONLY		Location: 1100 TUNNEL ROAD ASHEVILLE, NC 28805	Drawing Number: 62-TY102
		Issue Date: 12.19.2025 / Checked / Drawn	SHEET 524 of 559

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EHRM INFRASTRUCTURE UPGRADES

CHARLES GEORGE VA MEDICAL CENTER

1100 TUNNEL ROAD ASHEVILLE, NC 28805

BLDG 70

FINAL BID DOCUMENTS

12.19.2025

DESIGN TEAM

OWNER

Charles George VA Medical Center
1100 Tunnel Road
Asheville, NC 28805
Contact: Daniel Chaparro
Office: (916) 843-7187 Cell: (916) 542-3038

VA | U.S. Department of Veterans Affairs

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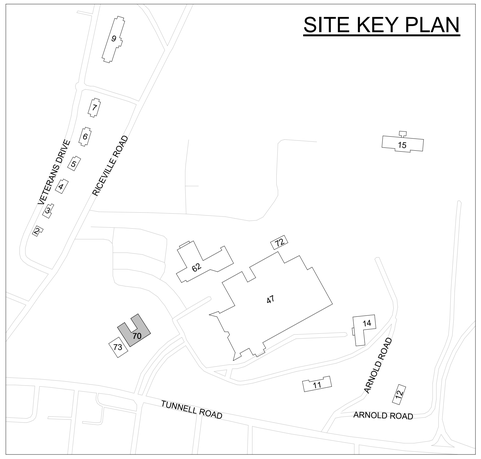
701 Corporate Center Drive, Suite 475
Raleigh, NC 27607
Contact: Lars Iverson
lars.iverson@coffman.com
(919) 670-3668

COFFMAN ENGINEERS

SITE KEY PLAN



Sheet List

Sheet Number	Sheet Name
BLDG 70	
01 - GENERAL	
70-GI001	COVER SHEET
07-STRUCTURAL	
70-SF101	STRUCTURAL 1ST FLOOR PLAN
08-ARCHITECTURE	
70-AD101	1ST FLOOR DEMO PLAN & DEMO RCP
70-AE101	1ST FLOOR PLAN, RCP, DOOR SCHEDULE & INTERIOR ELEVATIONS
12-PLUMBING	
70-PP101	PLUMBING 1ST FLOOR PLANS
14-MECHANICAL	
70-MP101	MECHANICAL 1ST FLOOR PLANS
70-MP102	MECHANICAL ROOF PLAN
70-MG601	MECHANICAL SCHEDULES
15-ELECTRICAL	
70-ED101	ELECTRICAL DEMOLITION 1ST FLOOR
70-EP101	ELECTRICAL 1ST FLOOR PLAN
70-EP102	ELECTRICAL ROOF PLAN
70-EP601	ONE-LINE DIAGRAM AND SCHEDULES
16-TELECOMMUNICATION	
70-TD101	TELECOMMUNICATIONS DEMOLITION 1ST FLOOR
70-TD401	TELECOMMUNICATIONS DEMOLITION ENLARGED PLAN
70-TD601	TELECOMMUNICATIONS DEMOLITION RACK ELEVATIONS
70-TN101	TELECOMMUNICATIONS 1ST FLOOR PLAN
70-TN601	TELECOMMUNICATIONS DIAGRAMS
16.4 - PHYSICAL SECURITY	
70-TY101	1ST FLOOR SECURITY PLAN

Grand total: 18

FINAL BID DOCUMENTS

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LICENSED ARCHITECT
GENE HAMILTON KING
No. C-19576
REN. 07-31-27
STATE OF CALIFORNIA

Facilities Management Services

VA U.S. Department of Veterans Affairs

Drawing Title: COVER SHEET	Phase: FINAL BID DOCUMENTS	Project Title: EHRM INFRASTRUCTURE UPGRADES	Project Number: 637-22-700
Approved:		Location: 1100 TUNNEL ROAD ASHEVILLE, NC 28805	Building Number: 70
FOR OFFICIAL USE ONLY		Issue Date: 12.19.2025 / Checked / Drawn	Drawing Number: 70-GI001
			SHEET 525 of 559

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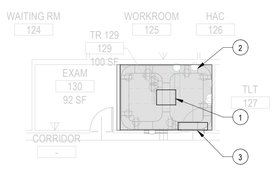
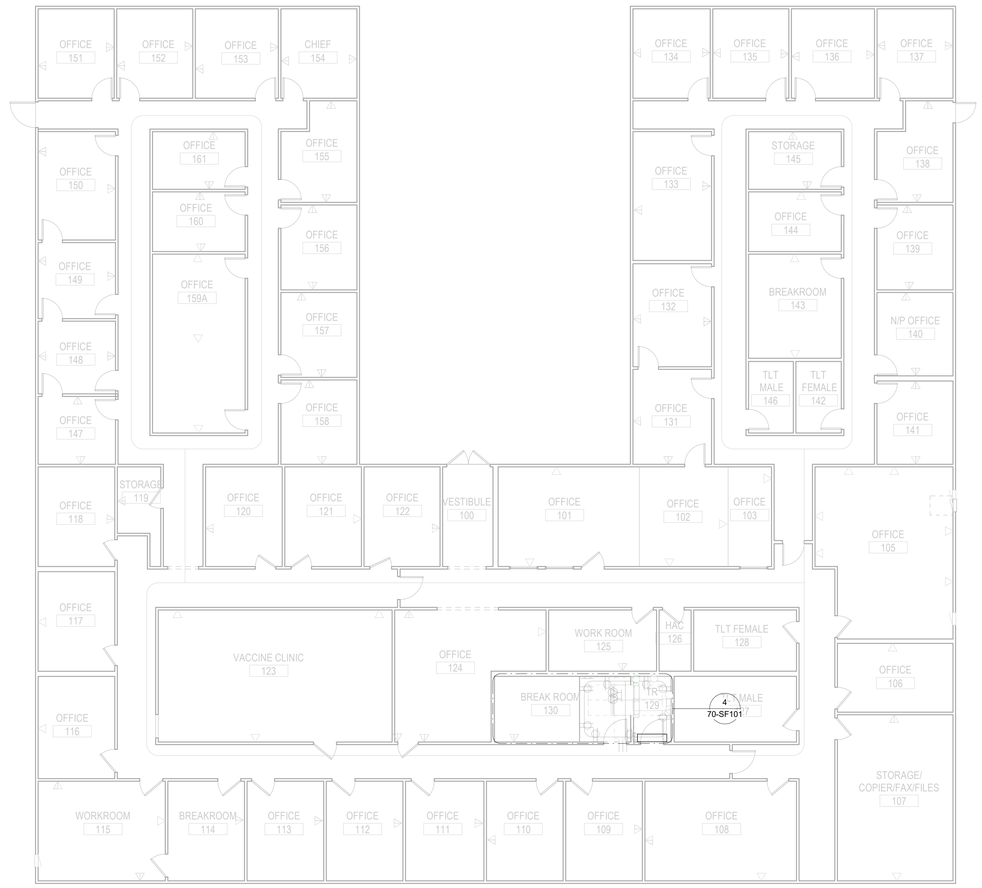


4 STRUCTURAL 129 ENLARGED PLAN
1/8" = 1'-0"



2 STRUCTURAL 1ST FLOOR PLAN
1/8" = 1'-0"

SHEET NOTES:

1. (N) FLOOR MOUNTED TELECOM RACK. SEE DETAIL 11/00-S503 OR 12/00-S503
2. (N) CABLE TRAY SUPPORT, SEE DETAIL 1/00-S503 OR 3/00-S503
3. PROVIDE METAL STUD BACKING AT (N) WALL MOUNTED SPLIT SYSTEM UNIT PER DETAIL 10/00-S503. SEE MECH. DRAWINGS FOR UNIT LOCATION

GENERAL NOTES:

1. FIRE/SMOKE WALL RECORD DRAWINGS WERE NOT PROVIDED BY THE STATION. FIELD-VERIFY EXISTING PARTITION WALLS TO IDENTIFY FIRE/SMOKE RATING AND PROVIDE ALL REQUIRED MEASURES AND APPROPRIATE EQUIPMENT IN ACCORDANCE WITH THE VERIFIED PARTITION TYPE.
2. FIELD VERIFY EXISTING CONDITIONS.

PLAN NORTH N

1/8" = 1'-0" SCALE 5 0 5 10 15 20 FEET

FINAL BID DOCUMENTS

Revisions:	Date:

ARCHITECT/ENGINEER OF RECORD

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STAMP: NORTH CAROLINA PROFESSIONAL SEAL 033610 ENGINEER PAUL HOFFMACK 12/19/2025

Facilities Management Services

VA U.S. Department of Veterans Affairs

Drawing Title	Phase	Project Title	Project Number
STRUCTURAL 1ST FLOOR PLAN	FINAL BID DOCUMENTS	EHRM INFRASTRUCTURE UPGRADES	637-22-700
Approved: FOR OFFICIAL USE ONLY		Location: 1100 TUNNEL ROAD ASHEVILLE, NC 28805	Building Number: BLDG 70
		Issue Date: 12.19.2025 / Checked: DU / Drawn: MBH	Drawing Number: 70-SF101
			SHEET 526 of 559

VA FORM 08 - 6231

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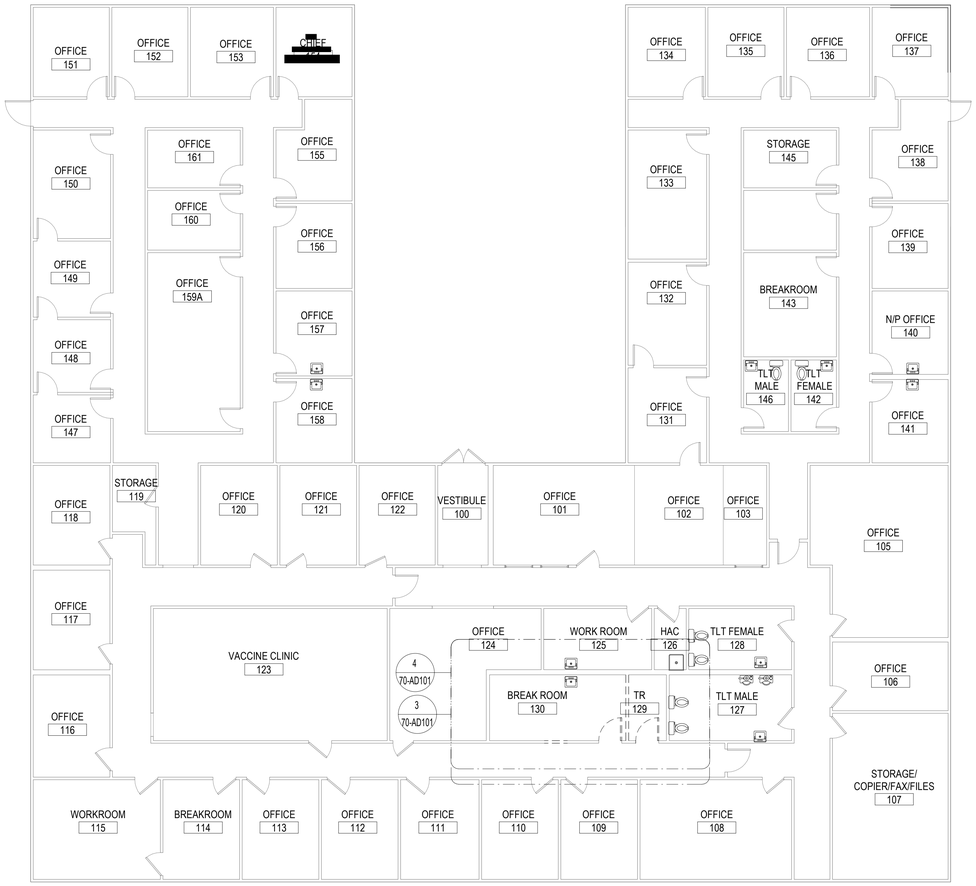
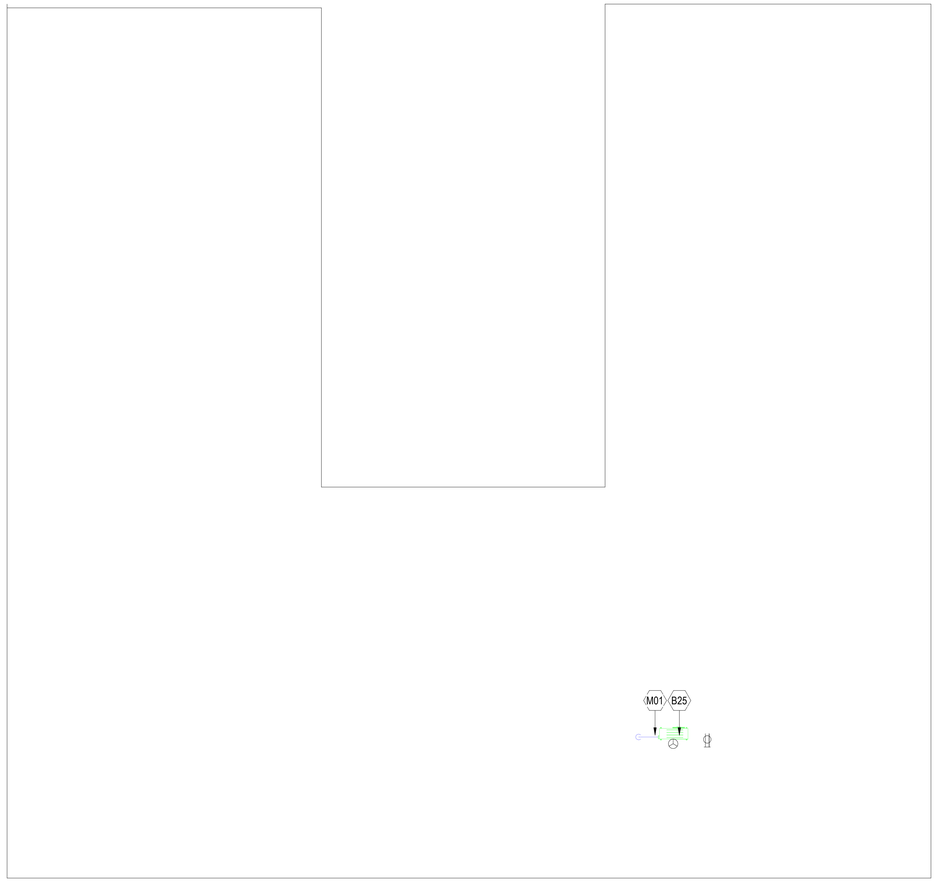
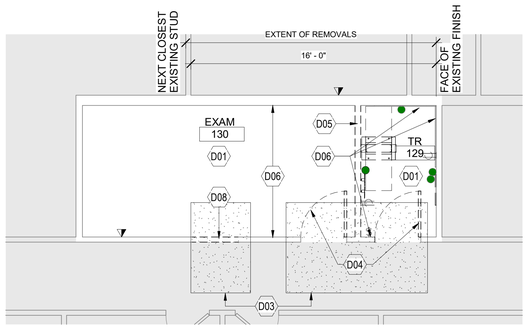


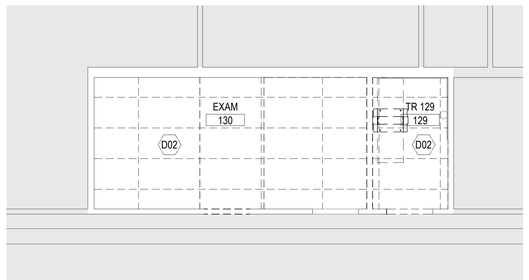
1 1ST FLOOR DEMO PLAN
1/8" = 1'-0"



2 ROOF DEMO PLAN
1/8" = 1'-0"



3 ENLARGED DEMO PLAN - 1ST FLOOR (TR 129)
1/4" = 1'-0"



4 ENLARGED DEMO RCP - 1ST FLOOR (TR 129)
1/4" = 1'-0"

DEMO SHEET NOTES

1. THESE DOCUMENTS DO NOT INDICATE ALL MINOR AREAS AFFECTED BY SELECTIVE DEMOLITION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR QUANTIFYING THE MATERIAL AND LABOR COSTS TO DEMOLISH, PATCH, REPAIR ADJACENT AREAS AFFECTED BY THE CONSTRUCTION INDICATED TO A "LIKE NEW" CONDITION.

2. COORDINATE WITH FIRE PROTECTION, MECHANICAL, ELECTRICAL, PLUMBING, TELECOMMUNICATIONS AND SECURITY PLANS FOR ADDITIONAL SELECTIVE DEMOLITION REQUIREMENTS NOT SHOWN ON THIS DRAWING.

3. SOME SHEET KEYNOTES LISTED BELOW MAY NOT APPLY TO THIS SHEET.

4. DIMENSIONS PRECEDED BY A TILDE (~) ARE APPROXIMATE, SUBJECT TO FIELD VERIFICATION.

5. ALL NEW INTERIOR PARTITIONS ARE TYPE 01, UNLESS OTHERWISE NOTED.

6. FIRE/ SMOKE WALL RECORD DRAWINGS WERE NOT PROVIDED BY THE STATION. FIELD-VERIFY EXISTING PARTITION WALLS TO IDENTIFY FIRE/SMOKE RATING AND PROVIDE ALL REQUIRED MEASURES AND APPROPRIATE EQUIPMENT IN ACCORDANCE WITH THE VERIFIED PARTITION TYPE.

DEMO PLAN KEYNOTES

KEY TAG	DESCRIPTION
B25	PATCH AND REPAIR ROOF AT NEW MECHANICAL PENETRATIONS
D01	REMOVE EXISTING FLOORING, PREP FLOOR TO RECEIVE FLOOR FINISH SPECIFIED
D02	REMOVE EXISTING CEILING, CEILING SUPPORT, ALL FASTENERS, LIGHTING FIXTURES, VENTS, AND MEANS OF ATTACHMENT BACK TO STRUCTURE
D03	PROVIDE WALK OFF MATS AT CONSTRUCTION AREAS.
D04	REMOVE DOOR AND FRAME, SALVAGE ALL DOOR HARDWARE AND TURN OVER TO VA, VERIFY FRAMING AND PROVIDE MODIFICATIONS NECESSARY IF DOOR INCREASES IN SIZE, PATCH ADJACENT FINISHES TO MATCH EXISTING, PAINT AFFECTED WALL TO CLOSEST CORNER
D05	REMOVE GYPSUM BOARD AND METAL FRAMING
D06	REMOVE EXISTING GYPSUM WALLBOARD FINISH
D08	REMOVE EXISTING PARTITION AT AREA OF NEW DOOR
M01	MECHANICAL EQUIPMENT, SEE MECHANICAL DRAWINGS

DEMOLITION LEGEND

- OUT OF SCOPE AREAS, COORDINATE WITH FIRE PROTECTION, MECHANICAL, ELECTRICAL, PLUMBING, TELECOMMUNICATIONS, AND SECURITY PLANS FOR ADDITIONAL REQUIREMENTS WITHIN THIS AREA
- REMOVE CEILING AND ASSOCIATED SUPPORT AND SEISMIC BRACING, FIXTURES, AND ACCESSORIES, TYPICAL WITHIN DEMOLITION BOUNDARY. PROTECT ADJACENT SURFACES AND EQUIPMENT. PREP ADJACENT SURFACES FOR CONSTRUCTION INDICATED
- REMOVE GYPSUM BOARD CEILING AND ASSOCIATED SUPPORT/SUSPENSION SYSTEM, FIXTURES, AND ACCESSORIES
- CONSTRUCTION TO REMAIN IN PLACE (SHOWN SOLID)
- CONSTRUCTION TO BE DEMOLISHED (SHOWN DASHED)
- TEMPORARY CONSTRUCTION BARRIER
- PATH OF EGRESS
- WALK-OFF MATS

1/8" = 1'-0" SCALE: 5 0 5 10 15 20 FEET

1/4" = 1'-0" SCALE: 2 0 2 4 6 8 10 FEET

PLAN NORTH

FINAL BID DOCUMENTS

Revisions:	Date:

ARCHITECT/ENGINEER OF RECORD

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Facilities Management Services

VA U.S. Department of Veterans Affairs

Drawing Title: 1ST FLOOR DEMO PLAN & DEMO RCP

Approved:

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Phase: FINAL BID DOCUMENTS

Project Title: EHRM INFRASTRUCTURE UPGRADES

Project Number: 637-22-700

Building Number: 70

Location: 1100 TUNNEL ROAD ASHEVILLE, NC 28805

Issue Date: 12.19.2025

Checked

Drawn

Drawing Number: 70-AD101

SHEET 527 of 559

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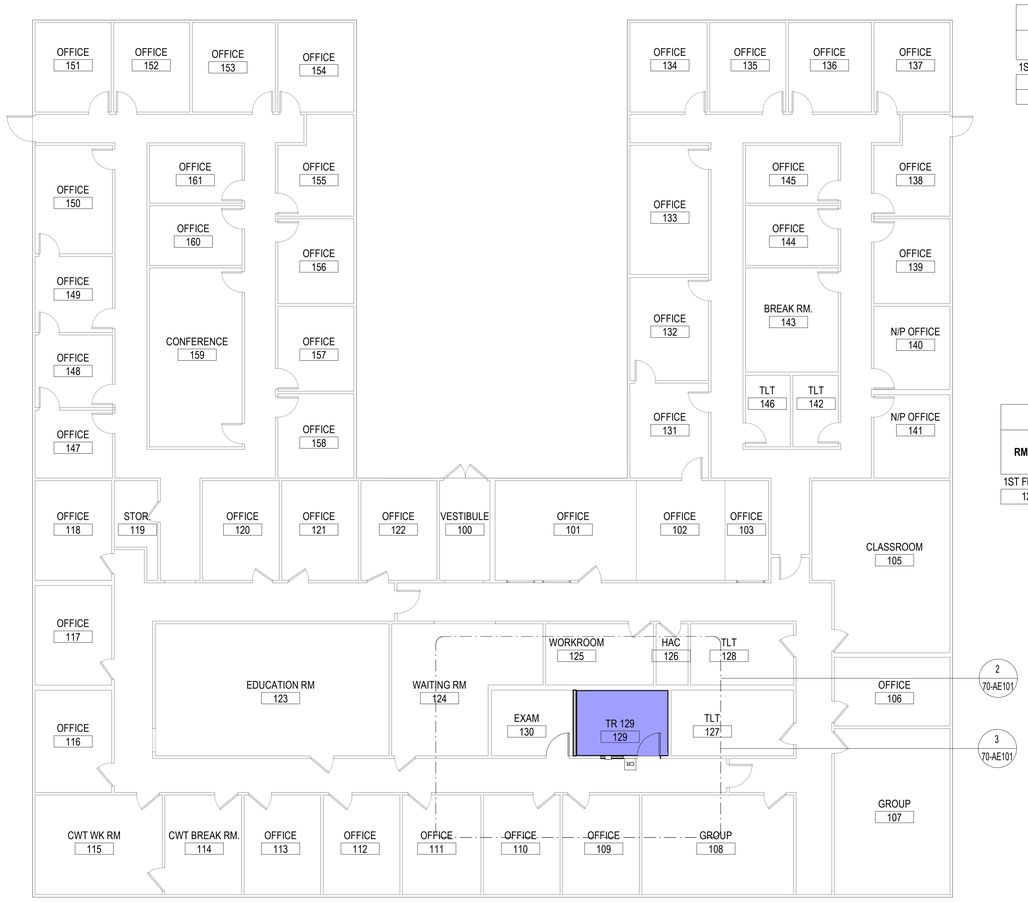
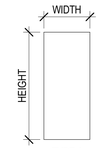


1 FIRST FLOOR ARCH PLAN
1/8" = 1'-0"

DOOR SCHEDULE

MARK	FROM	TO	DOOR TYPE	DOOR WIDTH	DOOR HEIGHT	DOOR FINISH	FRAME TYPE	FRAME FINISH	FIRE RATING	HW NO	DETAILS HEAD	DETAILS JAMB	DETAILS THRESHOLD	COMMENT
1ST FLOOR														
129	TR 129	CORRIDOR	1	3' - 0"	8' - 0"	-	A	P		SDO-218	B5/AE511	D5/AE511	D3/AE511	CARD READER
130	EXAM 130	CORRIDOR	1	3' - 0"	7' - 0"	-	A	P		MH1B	B5/AE511	D5/AE511	D3/AE511	

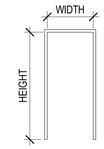
DOOR TYPES



TYPE 1

- SOLID CORE WOOD
- RED OAK VENEER
- FACTORY FINISH

FRAME TYPES



TYPE A

- 1.3 mm (0.053 INCH) GALV HM FRAME
- HOSPITAL TYPE STOPS
- PAINTED FRAME

ROOM FINISH SCHEDULE

RM NO	RM NAME	FLR	BASE MATL	BASE HT	WALLS NORTH MATL	WALLS NORTH FIN	WALLS EAST MATL	WALLS EAST FIN	WALLS SOUTH MATL	WALLS SOUTH FIN	WALLS WEST MATL	WALLS WEST FIN	CEILING MATL	CEILING FIN	CEILING HT	COMMENTS
1ST FLOOR																
129	TR 129	EPY/SD	RB	6"	GWB / PLYWD	P	GWB / PLYWD	P	GWB	P	GWB / PLYWD	P	EXP	P	N/A	

FINISH LEGEND:

EPY/SD	STATIC DISSIPATING FLUID-APPLIED ESD EPOXY FLOORING
EX	EXISTING
EXP	EXPOSED
GWB	GYPSUM WALLBOARD SYSTEM
P	FLAT OR MATTE PAINT
PLYWD	PLYWOOD
RB	RESILIENT BASE (RUBBER OR VINYL WITH FACTORY FORMED INSIDE AND OUTSIDE CORNERS

ENLARGED PLAN SHEET NOTES

1. THESE DOCUMENTS DO NOT INDICATE ALL MINOR AREAS AFFECTED BY SELECTIVE DEMOLITION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR QUANTIFYING THE MATERIAL AND LABOR COSTS TO DEMOLISH, PATCH, REPAIR ADJACENT AREAS AFFECTED BY THE CONSTRUCTION INDICATED TO A "LIKE NEW" CONDITION.

2. COORDINATE WITH FIRE PROTECTION, MECHANICAL, ELECTRICAL, PLUMBING, TELECOMMUNICATIONS AND SECURITY PLANS FOR ADDITIONAL SELECTIVE DEMOLITION REQUIREMENTS NOT SHOWN ON THIS DRAWING.

3. SOME SHEET KEYNOTES LISTED BELOW MAY NOT APPLY TO THIS SHEET.

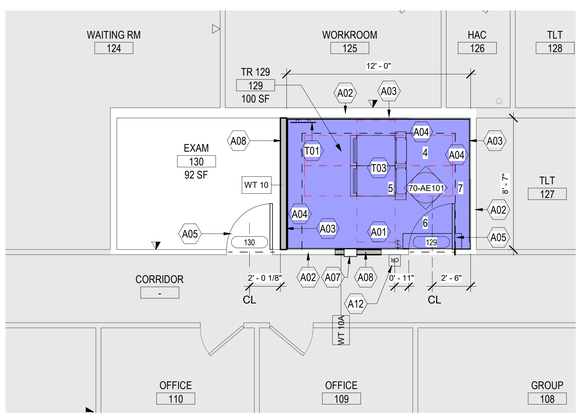
4. DIMENSIONS PRECEDED BY A TILDE (~) ARE APPROXIMATE, SUBJECT TO FIELD VERIFICATION.

5. ALL NEW INTERIOR PARTITIONS ARE TYPE 01, UNLESS OTHERWISE NOTED.

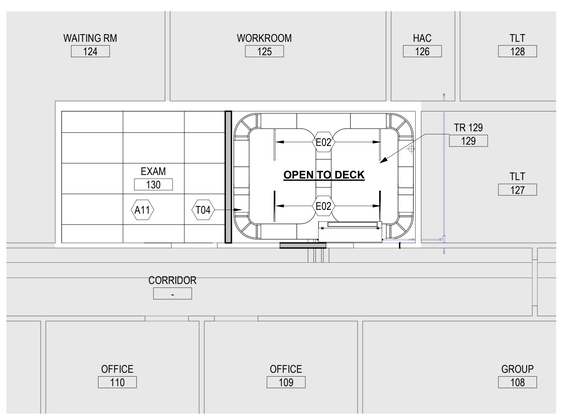
6. FIRE/ SMOKE WALL RECORD DRAWINGS WERE NOT PROVIDED BY THE STATION. FIELD-VERIFY EXISTING PARTITION WALLS TO IDENTIFY FIRE/SMOKE RATING AND PROVIDE ALL REQUIRED MEASURES AND APPROPRIATE EQUIPMENT IN ACCORDANCE WITH THE VERIFIED PARTITION TYPE.

ENLARGED PLAN KEYNOTES

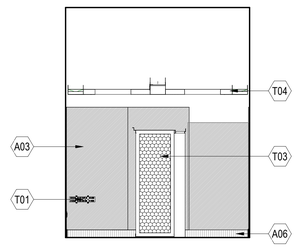
KEY TAG	DESCRIPTION
A01	STATIC DISSIPATING FLUID-APPLIED ESD EPOXY FLOORING
A02	EXTEND FULL-HEIGHT PARTITION TO DECK (VERIFY IN FIELD)
A03	4'-0" x 8'-0" AC GRADE 3/4" TRADE SIZE FIRE-RATED BACKBOARD PAINTED HIGH-GLOSS WHITE WITH TWO COATS OF FIRE-RESISTANT PAINT
A04	12" DEDICATED SPACE TO ACCOMMODATE SERVICE PROVIDER, SECURITY, VIDEO, ETC. EQUIPMENT MOUNTED TO BACKBOARDS
A05	DOOR AS SCHEDULED, REFER TO DOOR SCHEDULE
A06	BASE TRIM AS SCHEDULED, REFER TO SCHEDULE ON SHEET AE101
A07	PROVIDE A RETROFIT SEMI RECESSED FEC WITH A DRY AGENT FIRE EXTINGUISHER WITHIN 75' FROM TR BUT NOT IN TR. VA TO VERIFY AND FINALIZE THE FINAL LOCATION OF THE FEC.
A08	NEW METAL STUD PARTITION TO DECK
A11	NEW ACT SYSTEM
A12	CARD READER, MOUNT 3'-6" TO B.O. READER. SEE TELECOMMUNICATIONS DRAWINGS
E02	LIGHTING FIXTURES, SEE ELECTRICAL DRAWINGS
M01	MECHANICAL EQUIPMENT, SEE MECHANICAL DRAWINGS
T01	BONDING BUS BAR, SEE TELECOMMUNICATIONS
T03	TELECOMMUNICATIONS RACK SYSTEMS, SEE TELECOMMUNICATION DRAWINGS
T04	HORIZONTAL CABLE TRAY, SEE TELECOMMUNICATION DRAWINGS



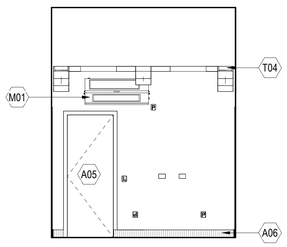
2 ENLARGED FLOOR PLAN - 1ST FLOOR (TR 129)
1/4" = 1'-0"



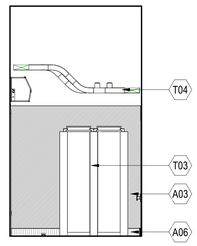
3 ENLARGED RCP - 1ST FLOOR (TR 129)
1/4" = 1'-0"



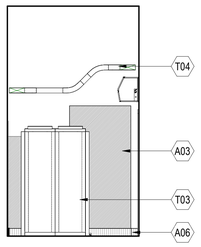
4 TR 129 - NORTH
1/4" = 1'-0"



6 TR 129 - SOUTH
1/4" = 1'-0"



5 TR 129 - WEST
1/4" = 1'-0"



7 TR 129 - EAST
1/4" = 1'-0"

TR LEGEND

- TR (DECOMMISSIONED)
- TR (EXISTING)
- TR (NEW)
- TR (EXPANDED)
- DATA CENTER (EXISTING)
- DATA CENTER (NEW)
- TE (NEW)
- ER (NEW)

1/8" = 1'-0" SCALE 5 0 5 10 15 20 FEET

1/4" = 1'-0" SCALE 2 0 2 4 6 8 10 FEET

PLAN NORTH N

FINAL BID DOCUMENTS

Revisions:	Date:

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LICENSED ARCHITECT EUGENE HAMILTON KING C-18576 REN. 07-31-27 STATE OF CALIFORNIA

Facilities Management Services

VA U.S. Department of Veterans Affairs

Drawing Title: 1ST FLOOR PLAN, RCP, DOOR SCHEDULE & INTERIOR ELEVATIONS

Phase: FINAL BID DOCUMENTS

Approved:

FOR OFFICIAL USE ONLY

Project Title: EHRM INFRASTRUCTURE UPGRADES

Project Number: 637-22-700

Building Number: 70

Location: 1100 TUNNEL ROAD ASHEVILLE, NC 28805

Issue Date: 12.19.2025

Checked

Drawn

Drawing Number: 70-AE101

SHEET 528 of 559

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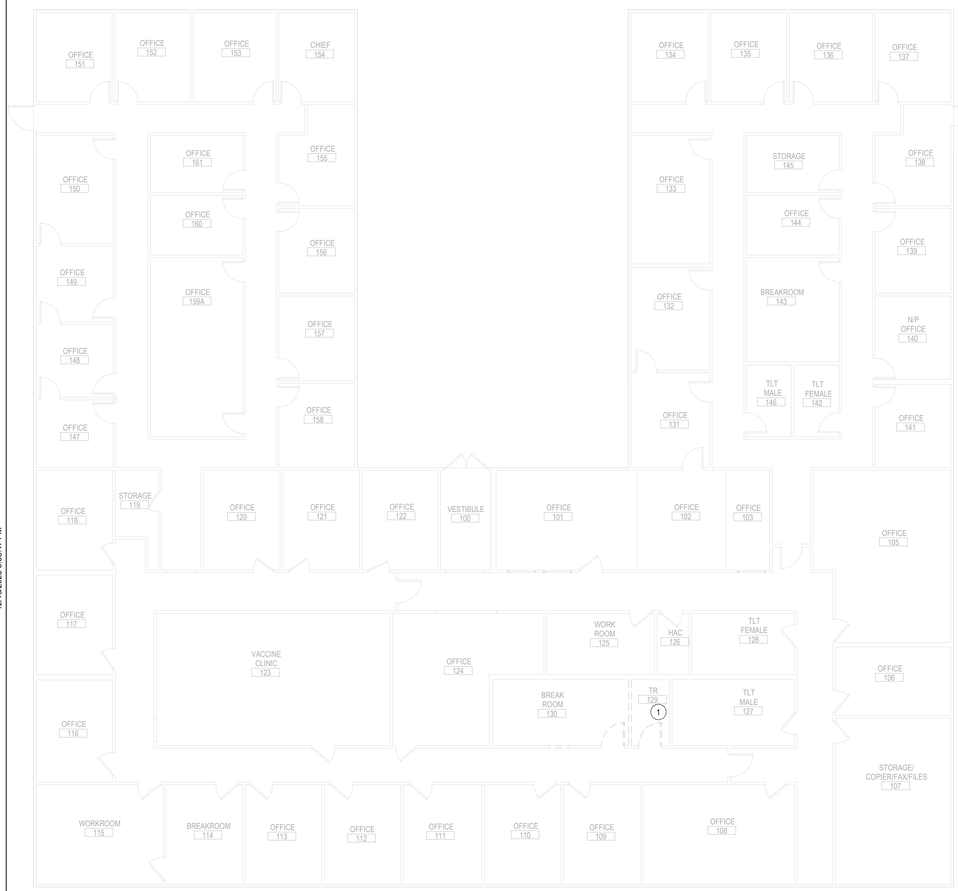
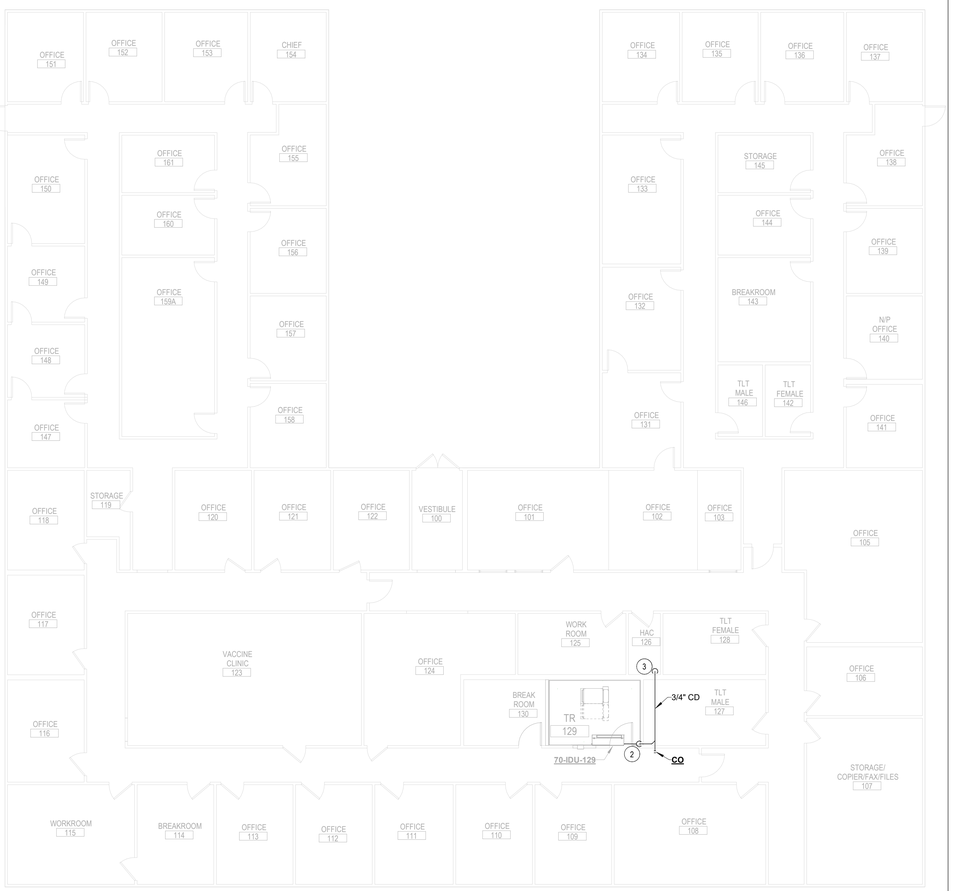


1 PLUMBING 1ST FLOOR DEMOLITION
1/8" = 1'-0"



2 PLUMBING 1ST FLOOR PLAN
1/8" = 1'-0"

SHEET NOTES:

1. NOTE ANY PLUMBING PIPING RUNNING DIRECTLY OVER THE LOCATION OF THE NEW TELECOM RACKS AND INFORM THE EOR OF ANY OCCURANCE.
2. 3/4" CD PUMPED UP TO ABOVE DROP CEILING. SEE DETAIL 3/00-P501.
3. 3/4" CD DOWN TO EXISTING MOP SINK. SEE DETAIL 3/00-P501.

GENERAL NOTES:

1. FIRE/SMOKE WALL RECORD DRAWINGS WERE NOT PROVIDED BY THE STATION. FIELD-VERIFY EXISTING PARTITION WALLS TO IDENTIFY FIRE/SMOKE RATING AND PROVIDE ALL REQUIRED MEASURES AND APPROPRIATE EQUIPMENT IN ACCORDANCE WITH THE VERIFIED PARTITION TYPE.
2. CONDENSATE DRAINAGE PIPING SLOPED AT 1/8" PER FOOT.
3. PLUMBING SCOPE OF WORK IS TO PROVIDE CONDENSATE DRAIN DRAINAGE, WHEN REQUIRED, FOR ALL NEW MECHANICAL EQUIPMENT IN TELECOM ROOMS.
4. ALL ROUTING IS DIAGRAMMATIC. ACCOUNT FOR FIELD CONDITIONS DURING CONSTRUCTION.
5. CONDENSATE DRAINS SHALL NOT DISCHARGE TO CLINIC/ EXAM/TREATMENT SINKS OR LAVATORIES IN PATIENT BED ROOMS.
6. IT RACKS SHOWN FOR REFERENCE ONLY. DASHED LINES INDICATE A PLACEHOLDER FOR FUTURE RACK, NOT IN THE CONTRACT. SEE TELECOM DRAWINGS FOR MORE INFORMATION.

PLAN NORTH N

1/8" = 1'-0" SCALE 5 0 5 10 15 20 FEET

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VA U.S. Department of Veterans Affairs

Drawing Title: PLUMBING 1ST FLOOR PLANS	Phase: FINAL BID DOCUMENTS	Project Title: EHRM INFRASTRUCTURE UPGRADES	Project Number: 637-22-700
			Building Number: BLDG 70
Approved:		Location: 1100 TUNNEL ROAD ASHEVILLE, NC 28805	Drawing Number: 70-PP101
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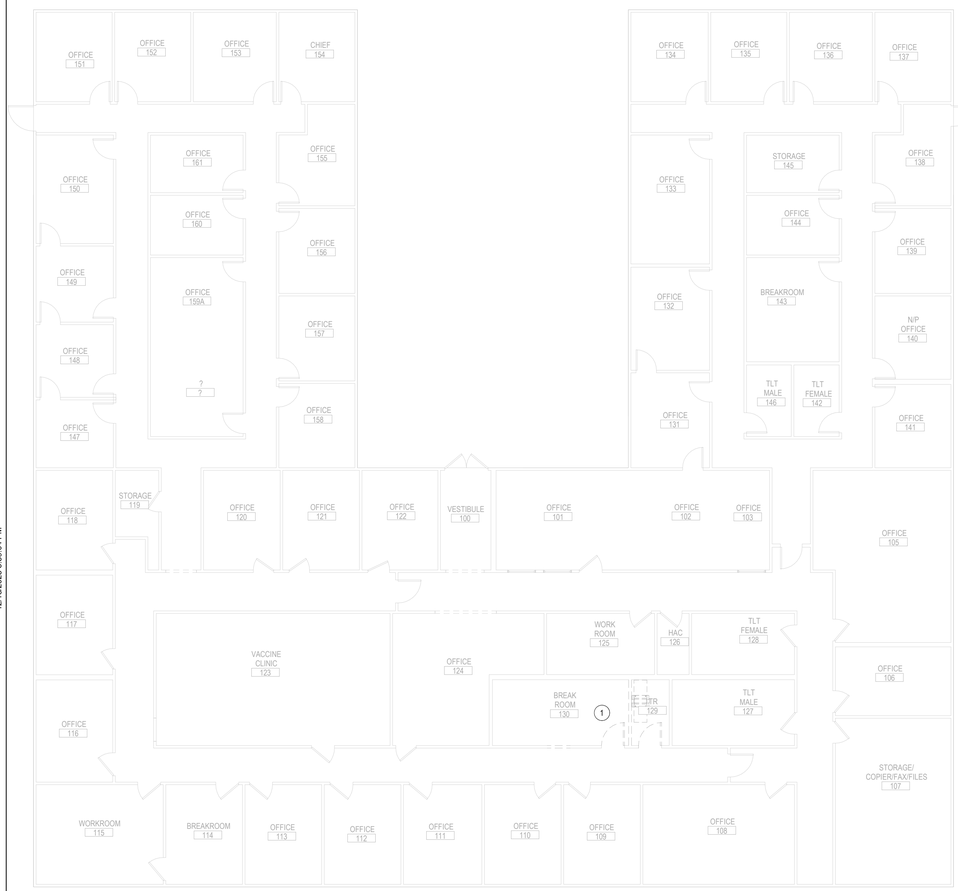
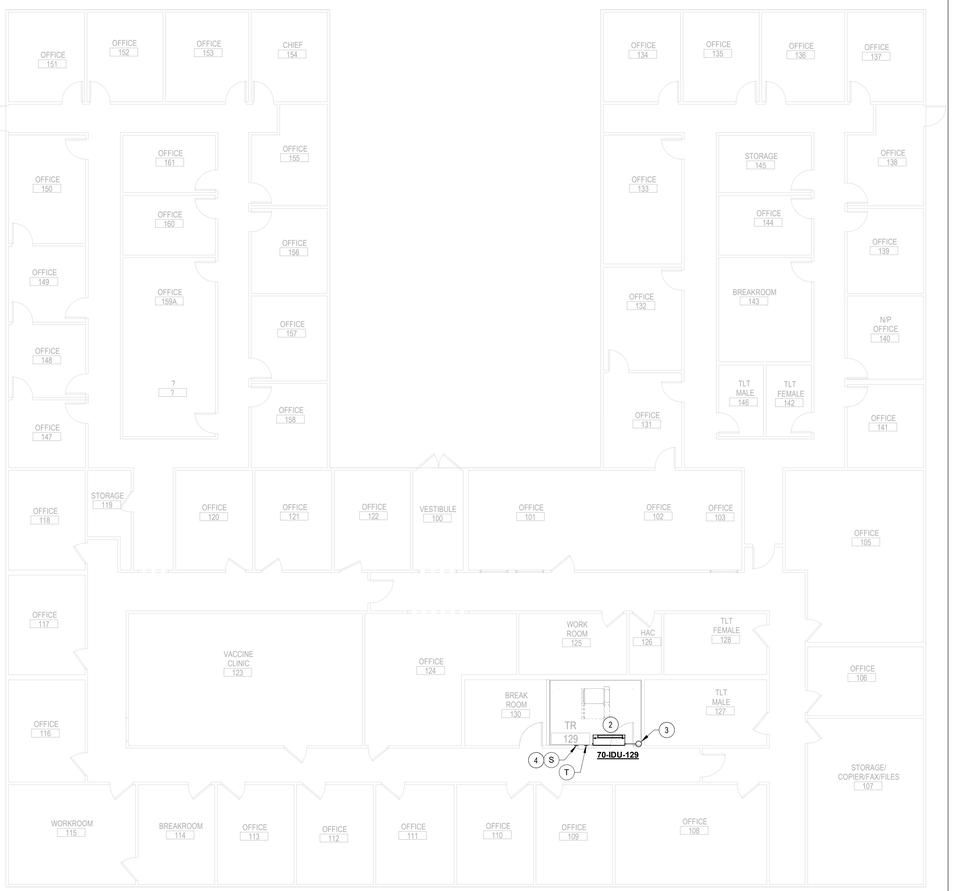


1 MECHANICAL 1ST FLOOR DEMOLITION
1/8" = 1'-0"



2 MECHANICAL 1ST FLOOR PLAN
1/8" = 1'-0"

SHEET NOTES:

1. REMOVE ANY EXISTING SUPPLY AND RETURN DUCTWORK BACK TO MAIN IN ADJOINING CORRIDOR. CAP AND SEAL PER SMACNA STANDARDS. REMOVE EXISTING DIFFUSERS AND GRILLES. REMOVE ANY EXISTING TRANSFER DUCTWORK. PATCH ALL OPENINGS LEFT IN WALL FROM DUCT REMOVAL. COORDINATE WITH ARCHITECTURAL DRAWINGS FOR WALL RATINGS. MAINTAIN WALL RATING IF RATED.
2. MOUNT UNIT ON WALL ABOVE DOOR. SEE DETAIL 7/00-M501. MAINTAIN MANUFACTURER'S MINIMUM CLEARANCE
3. REFRIGERANT LINE SET UP TO CORRESPONDING ODU ON ROOF. UTILIZE PIPE PORTAL. SEE DETAIL 8/00-M501.
4. LOCATE TEMPTRAK TEMPERATURE/HUMIDITY SENSOR ON WALL WITHIN 6 FT OF TELECOM RACK. TEMPTRAK SENSOR SHALL INTEGRATE WITH VA'S CENTRAL MONITORING SYSTEM TO ALERT WHEN ENVIRONMENTAL CONDITION REQUIREMENTS ARE NOT MET. SEE DESIGN CONDITIONS TABLE ON SHEET 00-M001

GENERAL NOTES:

1. FIRE/SMOKE WALL RECORD DRAWINGS WERE NOT PROVIDED BY THE STATION. FIELD-VERIFY EXISTING PARTITION WALLS TO IDENTIFY FIRE/SMOKE RATING AND PROVIDE ALL REQUIRED MEASURES AND APPROPRIATE EQUIPMENT IN ACCORDANCE WITH THE VERIFIED PARTITION TYPE.
2. SIZE REFRIGERANT LINES PER MANUFACTURER'S RECOMMENDATIONS.
3. PROVIDE FIRE-STOPPING WHERE PIPING PENETRATES FIRE RATE WALLS.
4. IT RACKS FOR REFERENCE ONLY. DASHED LINES INDICATE PLACEHOLDER FOR FUTURE RACK, NOT IN CONTRACT. SEE TELECOM DRAWINGS FOR MORE INFORMATION.

PLAN NORTH N

1/8" = 1'-0" 5 0 5 10 15 20 SCALE FEET

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VA U.S. Department of Veterans Affairs

Drawing Title: MECHANICAL 1ST FLOOR PLANS	Phase: FINAL BID DOCUMENTS	Project Title: EHRM INFRASTRUCTURE UPGRADES	Project Number: 637-22-700
			Building Number: BLDG 70
Approved: FOR OFFICIAL USE ONLY		Location: 1100 TUNNEL ROAD ASHEVILLE, NC 28805	Drawing Number: 70-MP101
		Issue Date: 12.19.2025 / Checked / Drawn	SHEET 530 of 559

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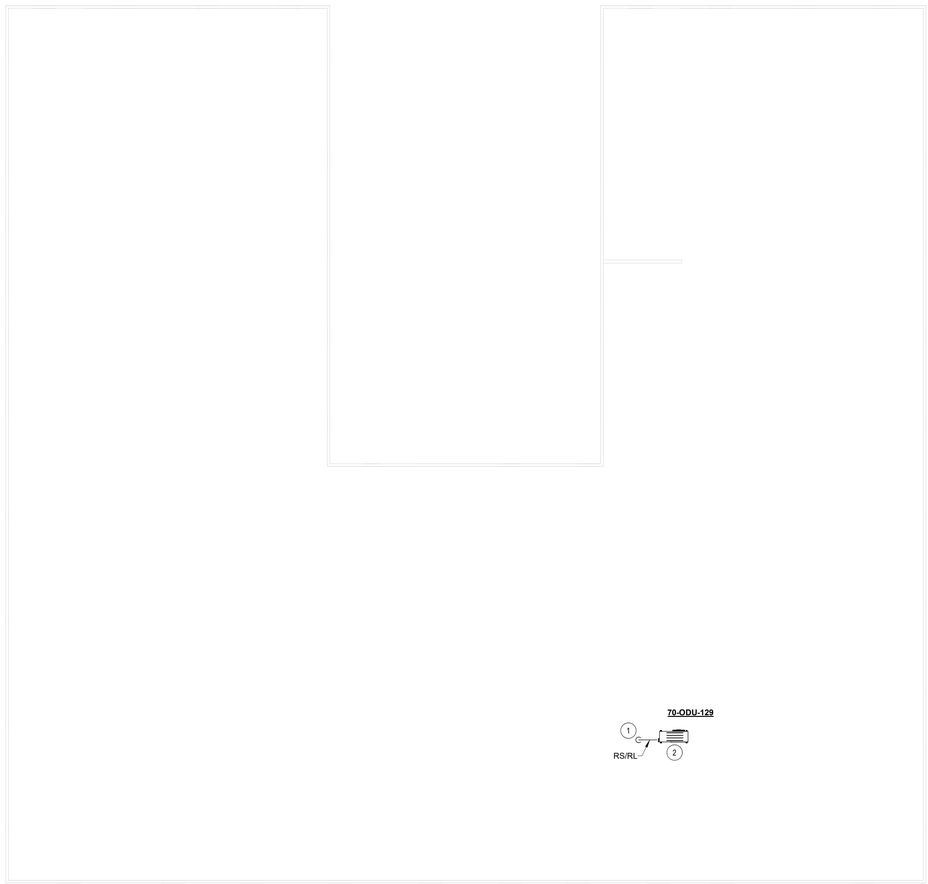

1 MECHANICAL ROOF PLAN
1/8" = 1'-0"

SHEET NOTES:

1. REFRIGERANT LINE SET DOWN TO CORRESPONDING IDU UTILIZE PIPE PORTAL. SEE DETAIL 8/00-M501.
2. MOUNT CONDENSING UNIT ON ROOF CURB OR ROOF RAILS. SEE DETAIL 5/00-M501. LOCATE CONDENSING UNITS AS NEAR AS PRACTICAL TO REFRIGERANT PIPE PORTALS. MAINTAIN MANUFACTURER'S MINIMUM RECOMMENDED CLEARANCES BETWEEN CONDENSING UNITS AND BETWEEN OBSTRUCTIONS. CONDENSING UNITS SHALL NOT ADVERSELY AFFECT THE PERFORMANCE OR SERVICABILITY OF EXISTING NEARBY EQUIPMENT.

GENERAL NOTES:

1. FIRE/SMOKE WALL RECORD DRAWINGS WERE NOT PROVIDED BY THE STATION. FIELD-VERIFY EXISTING PARTITION WALLS TO IDENTIFY FIRE/SMOKE RATING AND PROVIDE ALL REQUIRED MEASURES AND APPROPRIATE EQUIPMENT IN ACCORDANCE WITH THE VERIFIED PARTITION TYPE.
2. SIZE REFRIGERANT LINES PER MANUFACTURER'S RECOMMENDATIONS.

PLAN NORTH N

1/8" = 1'-0" 5 0 5 10 15 20 SCALE FEET

FINAL BID DOCUMENTS

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Drawing Title: MECHANICAL ROOF PLAN	Phase: FINAL BID DOCUMENTS	Project Title: EHRM INFRASTRUCTURE UPGRADES	Project Number: 637-22-700
			Building Number: BLDG 70
Approved:		Location: 1100 TUNNEL ROAD ASHEVILLE, NC 28805	Drawing Number: 70-MP102
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MINI-SPLIT INDOOR UNIT SCHEDULE

MARK	CORRESPONDING ODU	LOCATION	MAX CFM	COOLING			ELECTRICAL					BASIS OF DESIGN			REMARKS
				EDB	EWB	LDB	VOLTAGE	PHASE	FREQUENCY	FLA	MCA	MAKE	MODEL	WEIGHT	
70-IDU-129	70-ODU-129	BLDG 70 129	1000 CFM	80 °F	63 °F	56 °F	208 V	1	60 Hz	3.00 A	4 A	VERTIV	WLM070A	120 lb	ALL

NOTES:

1. PROVIDE WITH BLUE DIAMOND MAXIBLUE (X87-721) OR EQUAL CONDENSATE PUMP. COORDINATE WITH ELECTRICAL CONTRACTOR FOR POWER. PROVIDE DRIP PAN WITH MOISTURE SENSOR TO GENERATE AN ALARM TO THE BAS IN THE EVENT OF PRIMARY DRAIN OVERFLOW.
2. PROVIDE WITH MANUFACTURER'S THERMOSTAT. UNIT TO RUN ON INTERNAL CONTROL LOGIC.
3. INDOOR UNIT POWERED BY OUTDOOR UNIT. ROUTE CONTROL AND POWER WIRING WITH REFRIGERANT LINESET.
4. PRODVIDE ONE (1) TEMPTRAK TEMPERATURE/HUMIDITY SENSOR PER TELECOM ROOM TO INTEGRATE WITH VA'S CENTRAL MONITORING SYSTEM TO ALERT WHEN ENVIRONMENTAL CONDITION REQUIREMENTS ARE NOT MET. SEE DESIGN CONDITIONS TABLE ON SHEET 00-M001.
5. ECM FAN.
6. PROVIDE AUXILIARY CONDENSATE PAN WITH FLOAT SWITCH TO SHUT DOWN UNIT AND MOISTURE SENSOR TO GENERATE AN ALARM TO THE BAS IN THE EVENT OF PRIMARY DRAIN OVERFLOW.

MINI-SPLIT OUTDOOR UNIT SCHEDULE

MARK	CORRESPONDING IDU	LOCATION	REFRIGERANT	COOLING				ELECTRICAL					BASIS OF DESIGN			REMARKS
				NOMINAL CAPACITY	TOTAL COOLING	SENSIBLE COOLING	NSCOP	VOLTAGE	PHASE	FREQUENCY	FLA	MCA	MAKE	MODEL	WEIGHT	
70-ODU-129	70-IDU-129	BLDG 70 ROOF	R32	3.5 kW	25,468 Btu/h	25,468 Btu/h	4.08	208 V	1	60 Hz	26.00 A	32 A	VERTIV	CUD070	118 lb	ALL

NOTES:

1. PROVIDE WITH MANUFACTURER'S WIND BAFFLES.
2. PROVIDE WITH MANUFACTURER'S ROOF CURB.
3. INDOOR UNIT POWERED BY OUTDOOR UNIT. ROUTE CONTROL AND POWER WIRING WITH REFRIGERANT LINESET.
4. SHALL BE CAPABLE OF OPERATING DOWN TO 0°F OUTDOOR AMBIENT TEMPERATURE.
5. VARIABLE SPEED COMPRESSOR.
6. REFRIGERANT LINE LENGTH UP TO 197 FT.
7. ECM FAN.

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Drawing Title: MECHANICAL SCHEDULES

Approved:

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Phase: FINAL BID DOCUMENTS

Project Title: EHRM INFRASTRUCTURE UPGRADES

Location: 1100 TUNNEL ROAD ASHEVILLE, NC 28805

Issue Date: 12.19.2025

Checked:

Drawn:

Project Number: 637-22-700

Building Number: BLDG 70

Drawing Number: 70-MG601

SHEET 532 of 559

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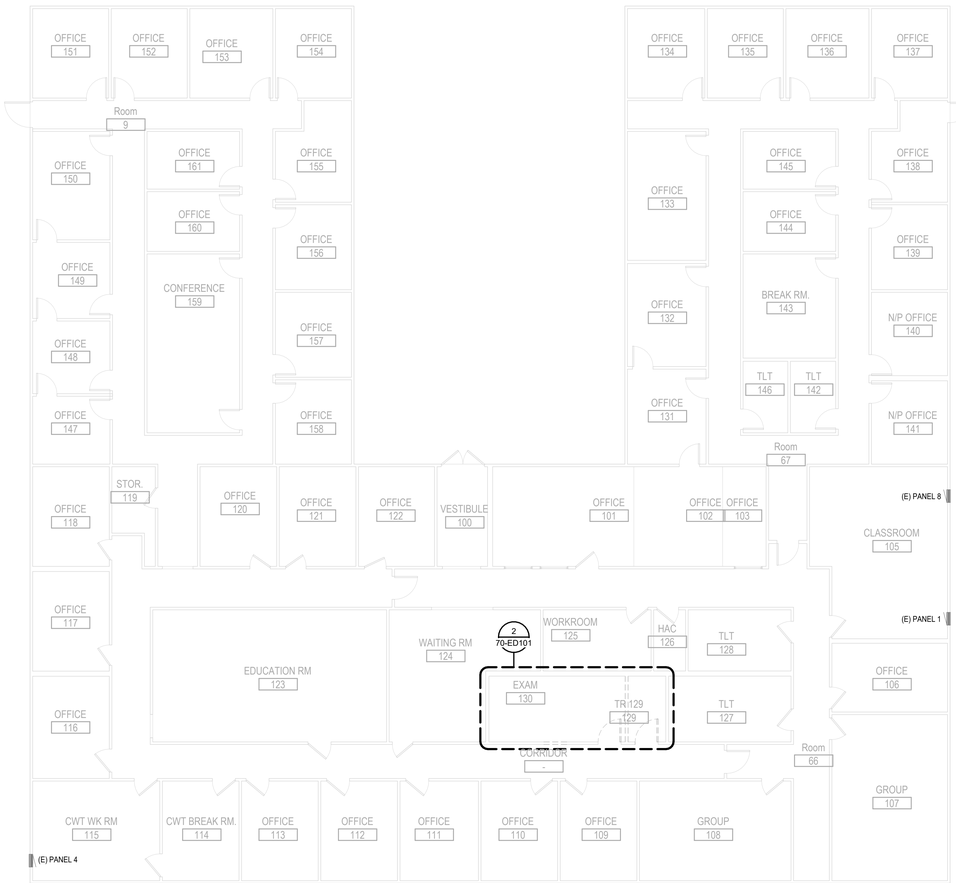
SHEET NOTES:

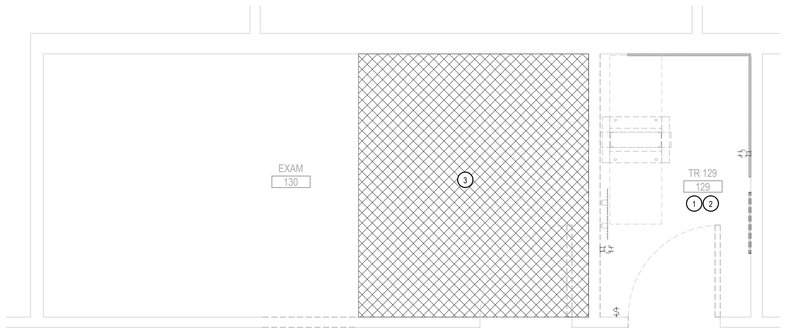
1. EXISTING TR TO BE EXPANDED. REMOVE EXISTING LIGHT FIXTURES AND CONTROLS, AND RETAIN EXISTING LIGHTING CIRCUIT FEEDING THE ROOM. REMOVE ALL EXISTING ELECTRICAL EQUIPMENT ON WALLS INDICATED TO BE DEMOLISHED, INCLUDING BUT NOT LIMITED TO: RECEPTACLES, HARDWIRE EQUIPMENT CONNECTIONS, CONDUIT AND OTHER HARDWARE.
2. REMOVE ALL ELECTRICAL HARDWARE FROM EXISTING TR ASSOCIATED WITH TELECOMMUNICATION RACK(S) BEING REMOVED, INCLUDING UPS AND PDU SYSTEMS. REMOVE CIRCUIT WIRING BACK TO SOURCE, OR NEAREST DEVICE OUTSIDE THE DEMO AREA ON THE SAME CIRCUIT.
3. EXISTING LIGHTING AND CONTROLS SHALL BE DEMOLISHED IN THIS AREA IN EXISTING ROOM 130. ON WALLS INDICATED TO BE DEMOLISHED, EXISTING RECEPTACLES SHALL BE REMOVED OR RELOCATED BASED ON THE NEW ROOM LAYOUT. REFER TO SHEET 70-EP101. EXISTING RECEPTACLE CIRCUIT WIRING AND CONDUIT SHALL BE REMOVED BACK TO THEIR SOURCE, OR NEAREST DEVICE OUTSIDE THE DEMO AREA ON THE SAME CIRCUIT.

GENERAL NOTES:

1. REFER TO 00-E001 FOR GENERAL NOTES, DEMOLITION NOTES, AND LEGENDS.
2. DEMOLITION PLANS ARE CONCEPTUAL, NOT ALL DEVICES TO BE DEMOLISHED ARE SHOWN.
3. ELECTRICAL PANEL LOCATIONS SHOWN FOR REFERENCE ONLY. ALL PANELS OUTSIDE OF THE TR ARE EXISTING TO REMAIN.
4. COORDINATE WITH TELECOM AND VA COR FOR SEQUENCE OF DEMOLITION PRIOR TO REMOVING EXISTING ELECTRICAL INFRASTRUCTURE FROM TELECOMMUNICATIONS SPACES THAT ARE BEING RENOVATED.



1 ELECTRICAL 1ST FLOOR DEMOLITION
1/8" = 1'-0"



2 ELECTRICAL 129 ENLARGED DEMOLITION
1/2" = 1'-0"

1/2" = 1'-0" SCALE 1 0 1 2 3 4 5 FEET

1/8" = 1'-0" SCALE 5 0 5 10 15 20 FEET

PLAN NORTH N

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Drawing Title: ELECTRICAL DEMOLITION 1ST FLOOR

Phase: FINAL BID DOCUMENTS

Project Title: EHRM INFRASTRUCTURE UPGRADES

Project Number: 637-22-700

Building Number: BLDG 70

Approved:

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Location: 1100 TUNNEL ROAD ASHEVILLE, NC 28805

Issue Date: 12.19.2025

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Drawing Number: 70-ED101

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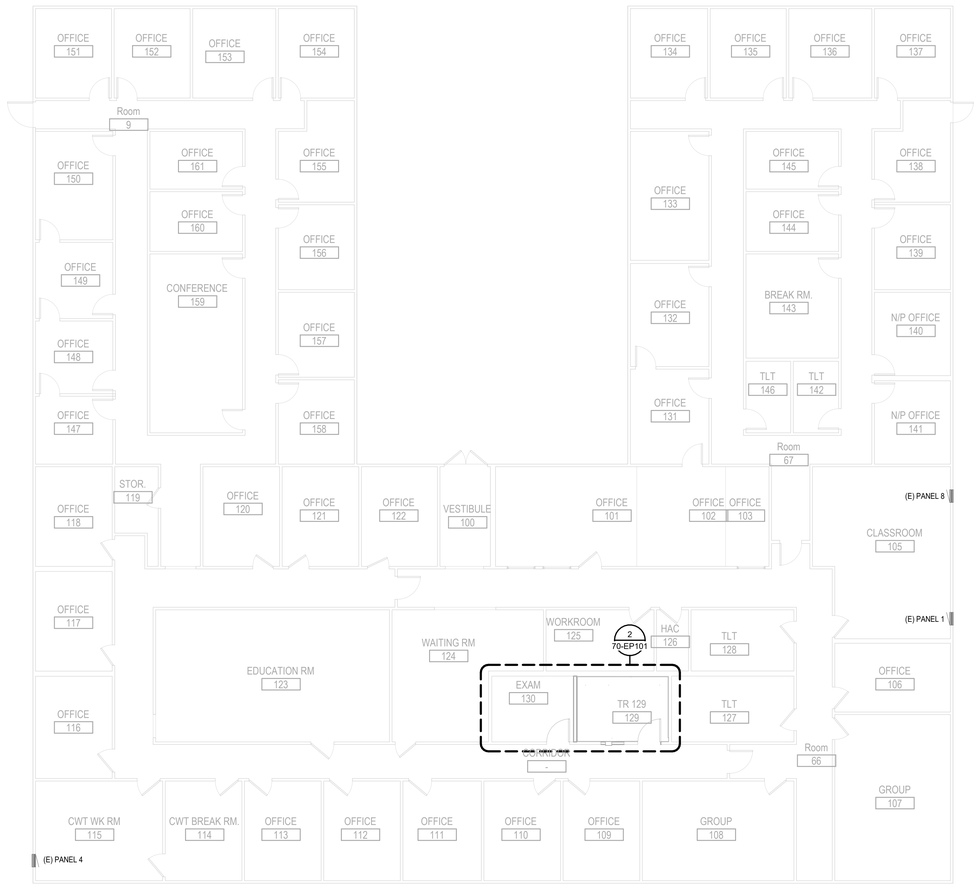
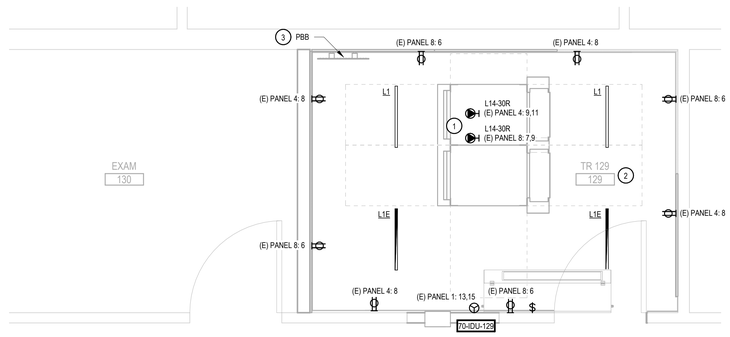


1 ELECTRICAL 1ST FLOOR PLAN
1/8" = 1'-0"



2 ELECTRICAL 129 ENLARGED PLAN
1/2" = 1'-0"

SHEET NOTES:

1. PROVIDE TWO (2) NEMA L14-30R TWIST LOCKING RECEPTACLES FOR RACK POWER. MOUNT TO CABLE TRAY ABOVE RACK IN AN ACCESSIBLE LOCATION. COORDINATE FINAL INSTALLATION WITH TELECOM EQUIPMENT. REFER TO TELECOM PLANS.
2. CIRCUIT NEW LIGHT FIXTURES AND CONTROLS TO EXISTING LIGHTING CIRCUIT SERVING THE ROOM.
3. BOND RACK BONDING BUSBAR (RBB) TO THE PBB. CONTRACTOR SHALL LOCATE THE BUILDING MAIN GROUND BAR AND BOND THE PBB BACK TO IT. REFER TO GROUNDING AND BONDING DETAIL(S) ON SHEET 70-TN601 FOR FURTHER DETAILS.

GENERAL NOTES:

1. FIRE/SMOKE WALL RECORD DRAWINGS WERE NOT PROVIDED BY THE STATION. FIELD-VERIFY EXISTING PARTITION WALLS TO IDENTIFY FIRE/SMOKE RATING AND PROVIDE ALL REQUIRED MEASURES AND APPROPRIATE EQUIPMENT IN ACCORDANCE WITH THE VERIFIED PARTITION TYPE.
2. REFER TO 00-E001 FOR GENERAL NOTES, LUMINAIRE SCHEDULE, AND POWER EQUIPMENT SCHEDULE. PROVIDE UPS AND PDU EQUIPMENT IN EACH RACK AS SPECIFIED.
3. REFER TO 70-EP601 FOR BUILDING ONE-LINE, EQUIPMENT SCHEDULE, AND PANEL SCHEDULES.
4. REFER TO TELECOM DRAWINGS FOR EQUIPMENT AND TELECOM RACK LAYOUTS.
5. REFER TO 00-E501, DETAILS 3 AND 4 FOR THE POWER EQUIPMENT ELEVATION FOR A ONE-RACK TELECOM ROOM, UNIQUE TO BUILDINGS 70 AND 73. THESE BUILDINGS ARE ONLY SUPPLIED WITH 120/240V SINGLE PHASE POWER. NO EXISTING THREE-PHASE ELECTRICAL SYSTEM EXISTS AT THESE BUILDINGS. CONTRACTOR SHALL ENSURE EQUIPMENT USED IN THE TR'S FOR THESE BUILDINGS MEETS THE UNIQUE EXISTING POWER SYSTEM CONSTRAINTS PRIOR TO INSTALLATION. INSTALL, CONNECT, AND ENERGIZE RACK POWER EQUIPMENT AS SPECIFIED IN THE DETAILS.
6. COORDINATE LIGHTING LAYOUT WITH FINAL EQUIPMENT LAYOUT AND OTHER TRADES. ENSURE FIXTURES ARE MOUNTED BELOW CABLE TRAY AND OTHER SYSTEMS.
7. PROVIDE UNSWITCHED PHASE CONDUCTOR FROM CIRCUIT SERVING LOCAL SWITCH GROUP TO ALL WALL MOUNTED "L1E" FIXTURE TYPES.

1/2" = 1'-0" SCALE 1 0 1 2 3 4 5 FEET

1/8" = 1'-0" SCALE 5 0 5 10 15 20 FEET

PLAN NORTH N

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Drawing Title: ELECTRICAL 1ST FLOOR PLAN	Phase: FINAL BID DOCUMENTS	Project Title: EHRM INFRASTRUCTURE UPGRADES	Project Number: 637-22-700
Approved: FOR OFFICIAL USE ONLY		Location: 1100 TUNNEL ROAD ASHEVILLE, NC 28805	Building Number: BLDG 70
		Issue Date: 12.19.2025 / Checked / Drawn	Drawing Number: 70-EP101
			SHEET 534 of 559

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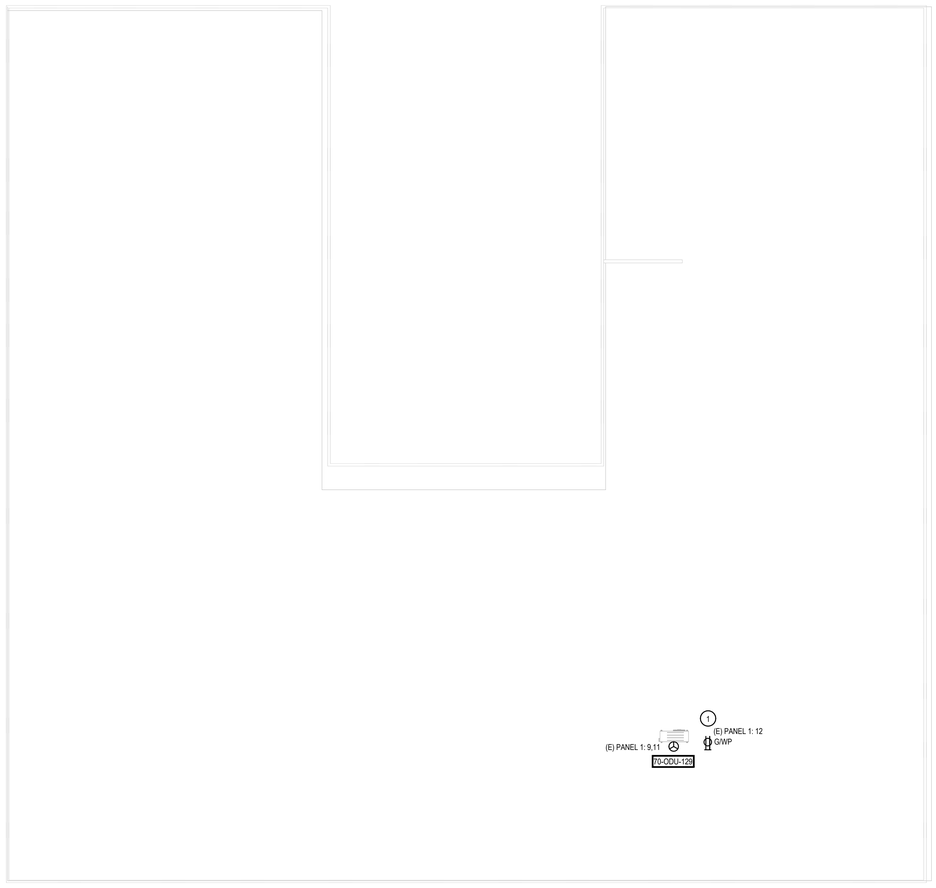

1 ELECTRICAL ROOF PLAN
1/8" = 1'-0"

SHEET NOTES:

1. IF NO EXTERIOR RECEPTACLE EXISTS WITHIN 25 FT OF NEW ROOFTOP MECHANICAL EQUIPMENT, CONTRACTOR SHALL PROVIDE NEW GFCI, WEATHERPROOF RECEPTACLE CIRCUITED AS SHOWN. RECEPTACLE SHALL BE MOUNTED TO NEAREST WALL SURFACE, OR PROVIDE RECEPTACLE MOUNTING FRAME PER DETAIL 3, SHEET 00-E503.

GENERAL NOTES:

1. FIRE/SMOKE WALL RECORD DRAWINGS WERE NOT PROVIDED BY THE STATION. FIELD-VERIFY EXISTING PARTITION WALLS TO IDENTIFY FIRE/SMOKE RATING AND PROVIDE ALL REQUIRED MEASURES AND APPROPRIATE EQUIPMENT IN ACCORDANCE WITH THE VERIFIED PARTITION TYPE.
2. REFER TO 00-E001 FOR GENERAL NOTES AND LEGENDS.
3. REFER TO 70-EP601 FOR BUILDING ONE-LINE, EQUIPMENT SCHEDULE, AND PANEL SCHEDULES.

PLAN NORTH N

1/8" = 1'-0" 5 0 5 10 15 20 SCALE FEET

Revisions:	Date:

ARCHITECT/ENGINEER OF RECORD

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ARCHITECTURE | ENGINEERING | PLANNING

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NORTH CAROLINA PROFESSIONAL SEAL 040390 JINZE CHEN
12/18/2025

Facilities Management Services

VA U.S. Department of Veterans Affairs

Drawing Title	Phase	Project Title	Project Number
ELECTRICAL ROOF PLAN	FINAL BID DOCUMENTS	EHRM INFRASTRUCTURE UPGRADES	637-22-700
Approved: FOR OFFICIAL USE ONLY		Location: 1100 TUNNEL ROAD ASHEVILLE, NC 28805	Building Number: BLDG 70
		Issue Date: 12.19.2025 / Checked / Drawn	Drawing Number: 70-EP102

SHEET 535 of 559

12/18/2025 6:16:48 PM

Autodesk Docs://Asheville EHRM_V23/637-22-700.070.E ASH- EHRM.rvt

VA FORM 08 - 6231

Branch Panel: (E) PANEL 1

Location: CLASSROOM 105
Supply From:
Mounting: RECESSED
Enclosure: NEMA 1

Volts: 120/240 Single
Phases: 1
Wires: 3

A.I.C. Rating: 10000
Mains Type: MCB
Mains Rating: 150 A
MCB Rating: 150 A

CKT	Circuit Description	Trip	Poles	Notes	A		B		Notes	Poles	Trip	Circuit Description	CKT
1	(E) A/C	100 A	2		0	0				1	20 A	(E) RECEPTACLES	2
3	--	--	--	--			0	0		1	20 A	(E) RECEPTACLES, LIGHTS	4
5	(E) RECEPTACLES, LIGHTS	20 A	1		0	0				1	20 A	(E) RECEPTACLES, LIGHTS	6
7	(E) W.H.	20 A	1				0	0		1	20 A	(E) RECEPTACLES, LIGHTS, FAN	8
9	70-ODU-129	50 A	2	1	2760	0				1	20 A	(E) FACP	10
11	--	--	--	--			2760	180	1	1	20 A	REC, OUTDOOR EQUIPMENT	12
13	70-IDU-129	15 A	2	1	360	--				1	--	SPACE	14
15	--	--	--	--			360	--		1	--	SPACE	16
				Total Load:	3120 VA		3300 VA						
				Total Amps:	26 A		28 A						

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
HVAC	6240 VA	100.00%	6240 VA		
REC,	180 VA	100.00%	180 VA	**Total Conn. Load:**	6420 VA
				Total Est. Demand:	6420 VA
				Total Conn. Current:	27 A
				Total Est. Demand Current:	27 A

Notes:
1. PROVIDE NEW BREAKER, WHICH SHALL MATCH THE EXISTING PANEL MANUFACTURER AND AIC RATING, AND MAINTAIN EXISTING PANEL UL RATING.

Branch Panel: (E) PANEL 4

Location: CWT WK RM 115
Supply From:
Mounting: RECESSED
Enclosure: NEMA 1

Volts: 120/240 Single
Phases: 1
Wires: 3

A.I.C. Rating: 10000
Mains Type: MCB
Mains Rating: 150 A
MCB Rating: 150 A

CKT	Circuit Description	Trip	Poles	Notes	A		B		Notes	Poles	Trip	Circuit Description	CKT
1	(E) A/C	100 A	2		0	0				1	20 A	(E) RECEPTACLES, LIGHTS	2
3	--	--	--	--			0	0		1	20 A	(E) RECEPTACLES, LIGHTS	4
5	(E) RECEPTACLES, LIGHT	20 A	1		0	0				1	20 A	(E) RECEPTACLES, LIGHTS	6
7	(E) RECEPTACLES, LIGHT	20 A	1				0	720	1	1	20 A	REC, TR 129	8
9	L14-30R LEG A, TR 129	30 A	2	1, 2	2500	--				1	--	SPACE	10
11	--	--	--	--			2500	--		1	--	SPACE	12
13	SPACE	--	1		--	--				1	--	SPACE	14
15	SPACE	--	1				--	--		1	--	SPACE	16
				Total Load:	2500 VA		3220 VA						
				Total Amps:	21 A		27 A						

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
REC,	720 VA	100.00%	720 VA		
Telecommunications Equipment	5000 VA	100.00%	5000 VA	**Total Conn. Load:**	5720 VA
				Total Est. Demand:	5720 VA
				Total Conn. Current:	24 A
				Total Est. Demand Current:	24 A

Notes:
1. PROVIDE NEW BREAKER, WHICH SHALL MATCH THE EXISTING PANEL MANUFACTURER AND AIC RATING, AND MAINTAIN EXISTING PANEL UL RATING.
2. PROVIDE NEUTRAL CONDUCTOR WITH CIRCUIT TO MATCH NEMA L14 WIRING CONFIGURATION. NEUTRAL CONDUCTOR SHALL BE UPSIZED ONE GAUGE, TO #8 AWG, PER VA STANDARDS.

Branch Panel: (E) PANEL 8

Location: CLASSROOM 105
Supply From:
Mounting: RECESSED
Enclosure: NEMA 1

Volts: 120/240 Single
Phases: 1
Wires: 3

A.I.C. Rating: 10000
Mains Type: MCB
Mains Rating: 150 A
MCB Rating: 150 A

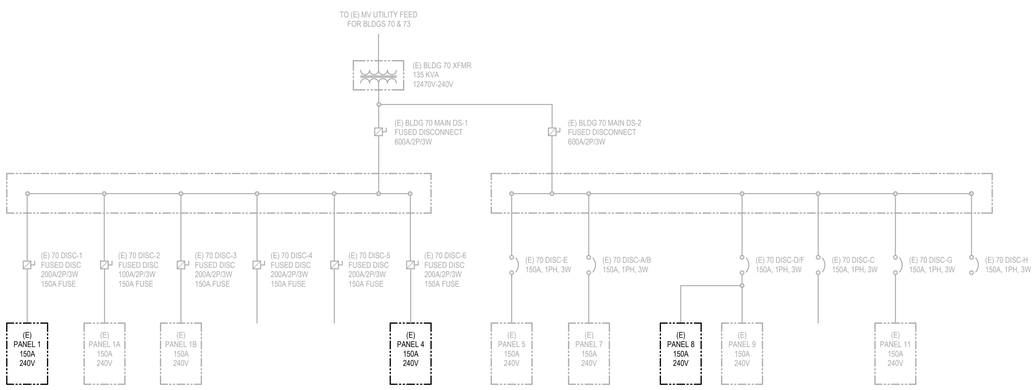
CKT	Circuit Description	Trip	Poles	Notes	A		B		Notes	Poles	Trip	Circuit Description	CKT
1	(E) RECEPTACLES, LIGHTS	20 A	1		0	0				1	20 A	(E) RECEPTACLES, LIGHTS	2
3	(E) RECEPTACLES, LIGHTS	20 A	1				0	0		1	20 A	(E) RECEPTACLES, LIGHTS	4
5	(E) RECEPTACLES, LIGHTS	20 A	1		0	720			1	1	20 A	REC, TR 129	6
7	L14-30R LEG B, TR 129	30 A	2	1, 2			2500	--		1	--	SPACE	8
9	--	--	--	--	2500	--				1	--	SPACE	10
11	SPACE	--	1				--	--		1	--	SPACE	12
13	SPACE	--	1		--	--				1	--	SPACE	14
15	SPACE	--	1				--	--		1	--	SPACE	16
				Total Load:	3220 VA		2500 VA						
				Total Amps:	27 A		21 A						

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
REC,	720 VA	100.00%	720 VA		
Telecommunications Equipment	5000 VA	100.00%	5000 VA	**Total Conn. Load:**	5720 VA
				Total Est. Demand:	5720 VA
				Total Conn. Current:	24 A
				Total Est. Demand Current:	24 A

Notes:
1. PROVIDE NEW BREAKER, WHICH SHALL MATCH THE EXISTING PANEL MANUFACTURER AND AIC RATING, AND MAINTAIN EXISTING PANEL UL RATING.
2. PROVIDE NEUTRAL CONDUCTOR WITH CIRCUIT TO MATCH NEMA L14 WIRING CONFIGURATION. NEUTRAL CONDUCTOR SHALL BE UPSIZED ONE GAUGE, TO #8 AWG.

MECHANICAL EQUIPMENT SCHEDULE

UNIT ID	EQUIPMENT DESCRIPTION	LOCATION	VOLTS	PHASE SIZE	HP	LOAD (KVA)	FLA	MCA	MOCP	CONDUIT & WIRE	CONNECTION TYPE	DISCONNECT DESCRIPTION	DISC NEMA RATING	DISC BY	STARTER DESCRIPTION	STARTER PROVIDED BY	SCCR	CIRCUIT ID	NOTES
70-IDU-129	SPLIT SYSTEM INDOOR UNIT		240 V	2P 2W		0.72 kVA	3.0 A	4 A	15 A	2#12 CU, 1#12 G IN 3/4" CONDUIT	HARDWIRED	MOTOR RATED TOGGLE SWITCH	NEMA 1	DIV 26	-	-	5000	(E) PANEL 1-13,15	PROVIDE RECEPTACLE FOR CONDENSATE PUMP.
70-ODU-129	DUCTLESS SPLIT SYSTEM	ROOF	240 V	2P 2W		5.52 kVA	23.0 A	28 A	50 A	2#6 CU, 1#10 G IN 3/4" CONDUIT	HARDWIRED	60A/2P/NF	NEMA 3R	DIV 26	-	-	5000	(E) PANEL 1-9,11	



1 BUILDING 70 PARTIAL ONE-LINE DIAGRAM
N.T.S.

SHEET NOTES:

GENERAL NOTES:

1. REFER TO 00-E001 FOR GENERAL NOTES AND LEGENDS.
2. ALL PANELS ARE EXISTING TO REMAIN. PANELS SHOWN IN BOLD INDICATE SCOPE IN THOSE PANELS.
3. ADDITIONAL LOAD TO BE ADDED TO PANELS AS SHOWN. EXISTING LOAD INFORMATION FOR PANELS WAS UNAVAILABLE AT THE TIME OF DESIGN. "PANEL TOTALS" REPRESENT LOAD ADDED TO PANEL.
4. IF SPACE ALLOCATED FOR NEW LOADS IS NOT AVAILABLE DURING CONSTRUCTION, CONTACT THE DOR.
5. DEMAND LOAD CALCULATIONS WERE DONE USING EXISTING INFORMATION FROM PROVIDED AS-BUILTS, SITE OBSERVATIONS, AND PHOTOS. PANELS WITH NEW LOADS ADDED WERE SELECTED USING THE DEMAND LOAD ESTIMATES.
6. PANEL A/C RATINGS SHOWN WERE DONE USING EXISTING INFORMATION FROM PROVIDED AS-BUILTS, SITE OBSERVATIONS, AND PHOTOS. CONTRACTOR TO VERIFY AIC RATING BEFORE ADDING NEW BREAKERS.

Revisions: | Date:

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12/18/2025

Facilities Management Services
U.S. Department of Veterans Affairs

Drawing Title: ONE-LINE DIAGRAM AND SCHEDULES
Phase: FINAL BID DOCUMENTS
Project Title: EHRM INFRASTRUCTURE UPGRADES
Project Number: 637-22-700
Building Number: BLDG 70
Approved:
FOR OFFICIAL USE ONLY
Location: 1100 TUNNEL ROAD ASHEVILLE, NC 28805
Issue Date: 12.19.2025
Checked
Drawn
Drawing Number: 70-EP601
SHEET 536 of 559

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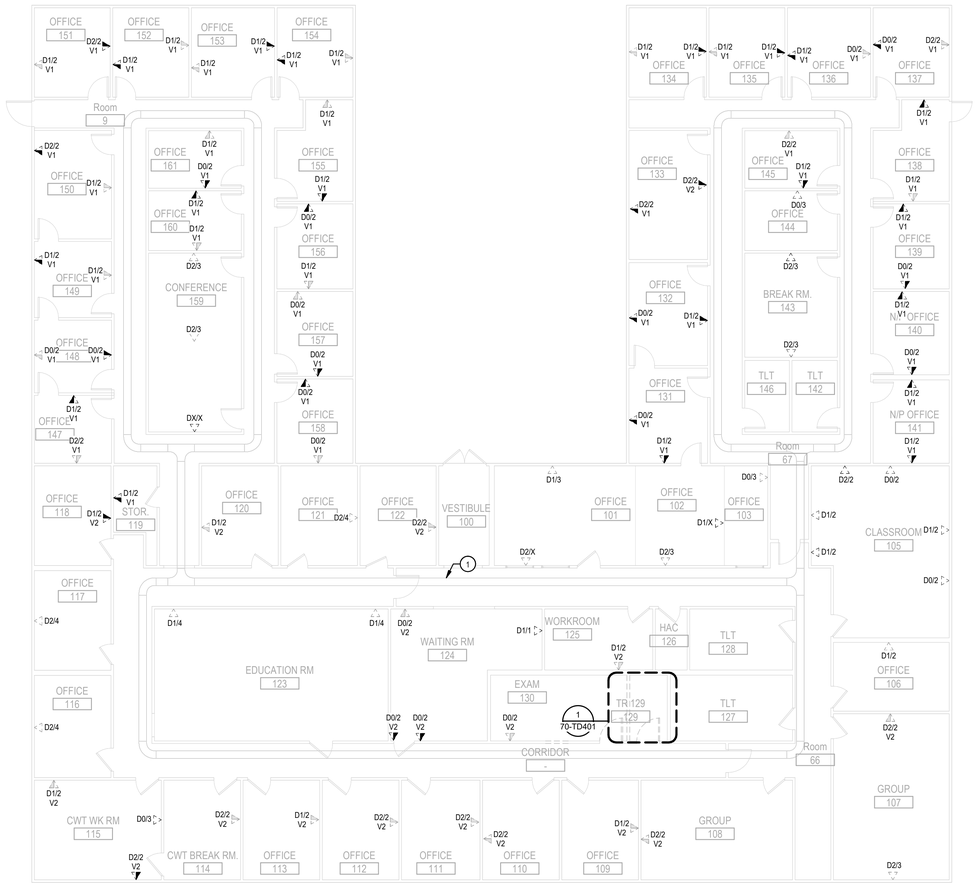
VA FORM 08 - 6231



1 TELECOMMUNICATIONS 1ST FLOOR DEMOLITION
1/8" = 1'-0"

SHEET NOTES:

1. EXISTING LADDER RACK TO REMAIN (TYP).

GENERAL NOTES:

1. REFER TO 00-T001 FOR GENERAL NOTES AND LEGENDS.
2. ALL EXISTING CABLES AND INFRASTRUCTURE NOT CAT6A RATED TO BE DEMOLISHED.
3. NOT ALL DEVICES ARE SHOWN. CONTRACTOR TO VERIFY ALL DATA OUTLET LOCATIONS IN THE FIELD.
4. THE QUANTITY OF TELECOM DROPS TO BE REMOVED, INSTALLED, AND MAINTAINED IS BASED ON THE INFORMATION KNOWN AT THE TIME OF DESIGN. PRIOR TO CONSTRUCTION, TELECOM DROP LOCATIONS SHALL BE SURVEYED. ANY DISCREPANCIES SHALL BE PROVIDED TO THE DOR IMMEDIATELY.
5. EXISTING ROUTING FOR TELECOM DROPS TO REMAIN SHALL BE MAINTAINED TO THE FULLEST EXTENT.
6. DEMOLITION DETAILS (IN NO PARTICULAR ORDER):
   - A. REFER TO ENLARGED PLANS FOR ADDITIONAL REQUIREMENTS.
   - B. CABLE CAT6 AND BELOW HORIZONTAL CABLE SHALL BE REMOVED FROM EXISTING PATCH PANELS BACK TO FINAL DATA JACK LOCATIONS. CABLE SHALL BE REMOVED BETWEEN EXISTING SWITCH AND PATCH PANEL.
   - C. PATCH PANELS CURRENTLY NOT DESIGNED FOR CAT6A CABLE SHALL BE REMOVED.
   - D. WALL PLATES AND RJ-45 JACKS FOR WALL OUTLET BOXES FOR CAT5E, 6 AND BELOW CABLE SHALL BE REMOVED.
   - E. DATA RACKS SHALL BE REMOVED.
   - F. HORIZONTAL AND VERTICAL CABLE MANAGEMENT FOR RACKS SHALL BE REMOVED IF APPLICABLE.
   - G. WALL MOUNTED FIBER BOXES SHALL BE REMOVED.
   - H. FIBER CABLE AND ENCLOSURES SHALL BE REMOVED BACK TO SOURCE AFTER ALL NEW FIBER CONNECTIONS IN THIS BUILDING HAVE BEEN CONNECTED. PRIOR TO DEMOLITION, COORDINATE WITH VA COR TO ENSURE ALL FIBER IS INACTIVE BEFORE DEMOLITION.
   - I. EXISTING CABLE TRAY TO REMAIN.
   - J. COPPER PHONE PUNCH DOWN BLOCKS SHALL REMAIN UNLESS OTHERWISE NOTED.
7. DEMOLISH ALL TELECOMMUNICATIONS CABLE THAT IS NOT TERMINATED AT BOTH ENDS AT A CONNECTOR OR OTHER EQUIPMENT AND NOT IDENTIFIED 'FOR FUTURE USE' WITH A TAG. ENSURE DEMOLITION OF ABANDONED CABLE WILL NOT DISRUPT VA OPERATIONS PRIOR TO REMOVAL. WHERE DISRUPTION OF SERVICE OCCURS DUE TO DEMOLISHED CABLE, NEW CABLE SHALL BE INSTALLED TO RESTORE THE SYSTEM AT THE CONTRACTOR'S EXPENSE.
8. PRIOR TO DEMOLITION, COORDINATE DISPOSAL WITH VA. ALL VA STANDARDS, EPA STANDARDS AND LOCAL STANDARDS MUST BE FOLLOWED WHEN DISPOSING OF ASBESTOS EXPOSED ITEMS.

PLAN NORTH N

1/8" = 1'-0" SCALE 5 0 5 10 15 20 FEET

Revisions:	Date:

ARCHITECT/ENGINEER OF RECORD

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Exp. 12-31-28
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12/18/2025

Facilities Management Services

VA U.S. Department of Veterans Affairs

Drawing Title: TELECOMMUNICATIONS DEMOLITION 1ST FLOOR

Approved:

FOR OFFICIAL USE ONLY

Phase: FINAL BID DOCUMENTS

Project Title: EHRM INFRASTRUCTURE UPGRADES

Location: 1100 TUNNEL ROAD ASHEVILLE, NC 28805

Issue Date: 12.19.2025

Checked:

Drawn:

Project Number: 637-22-700

Building Number: BLDG 70

Drawing Number: 70-TD101

SHEET 537 of 559

VA FORM 08 - 6231

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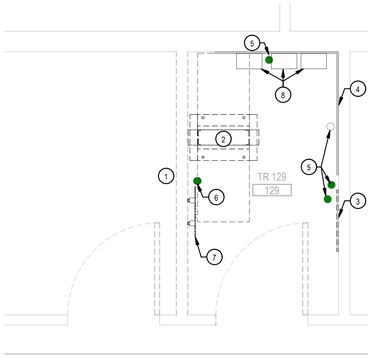
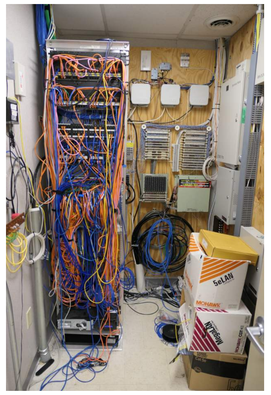
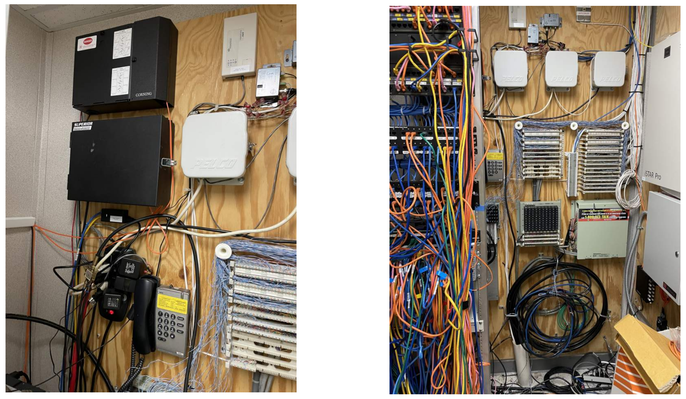


1 TELECOMMUNICATIONS 129 ENLARGED DEMOLITION
1/2" = 1'-0"



2 PHOTO OF TELECOMMUNICATIONS 129
N.T.S.



3 PHOTO OF TELECOMMUNICATIONS 129 NORTH WALL
N.T.S.

SHEET NOTES:

1. WALL TO BE DEMOLISHED. REMOVE ALL TELECOMMUNICATION DEVICES, CABLING AND INFRASTRUCTURE BACK TO THE SOURCE.
2. EXISTING RACK TO BE DEMOLISHED.
3. EXISTING PLYWOOD BACKBOARD TO BE DEMOLISHED. REMOVE ALL TELECOMMUNICATION DEVICES.
4. EXISTING PLYWOOD BACKBOARD TO REMAIN.
5. EXISTING CONDUIT TO REMAIN.
6. EXISTING CONDUIT FOR POTS TO BE RELOCATED. DISCONNECT POTS LINE IN CONDUIT. SEE 70-TN101 FOR NEW LOCATION.
7. EXISTING PBB TO BE DEMOLISHED. PBB MAY BE REUSED IF IT HAS SUFFICIENT BONDING SPACES, REFER TO 70-TN101 FOR NEW LOCATION.
8. EXISTING EQUIPMENT FOR POTS LINES TO REMAIN.

GENERAL NOTES:

1. REFER TO 00-T-001 FOR GENERAL NOTES AND LEGENDS.
2. ALL EXISTING CABLES AND INFRASTRUCTURE NOT CAT6A RATED TO BE DEMOLISHED.
3. NOT ALL DEVICES ARE SHOWN. CONTRACTOR TO VERIFY ALL DATA OUTLET LOCATIONS IN THE FIELD.
4. THE QUANTITY OF TELECOM DROPS TO BE REMOVED, INSTALLED, AND MAINTAINED IS BASED ON THE INFORMATION KNOWN AT THE TIME OF DESIGN. PRIOR TO CONSTRUCTION, TELECOM DROP LOCATIONS SHALL BE SURVEYED. ANY DISCREPANCIES SHALL BE PROVIDED TO THE DOR IMMEDIATELY.
5. EXISTING ROUTING FOR TELECOM DROPS TO REMAIN SHALL BE MAINTAINED TO THE FULLEST EXTENT.
6. DEMOLITION DETAILS (IN NO PARTICULAR ORDER):
   - A. REFER TO ENLARGED PLANS FOR ADDITIONAL REQUIREMENTS.
   - B. CABLE CAT6 AND BELOW HORIZONTAL CABLE SHALL BE REMOVED FROM EXISTING PATCH PANELS BACK TO FINAL DATA JACK LOCATIONS. CABLE SHALL BE REMOVED BETWEEN EXISTING SWITCH AND PATCH PANEL.
   - C. PATCH PANELS CURRENTLY NOT DESIGNED FOR CAT6A CABLE SHALL BE REMOVED.
   - D. WALL PLATES AND RJ-45 JACKS FOR WALL OUTLET BOXES FOR CAT5E, 6 AND BELOW CABLE SHALL BE REMOVED.
   - E. DATA RACKS SHALL BE REMOVED.
   - F. HORIZONTAL AND VERTICAL CABLE MANAGEMENT FOR RACKS SHALL BE REMOVED IF APPLICABLE.
   - G. WALL MOUNTED FIBER BOXES SHALL BE REMOVED.
   - H. FIBER CABLE AND ENCLOSURES SHALL BE REMOVED BACK TO SOURCE AFTER ALL NEW FIBER CONNECTIONS IN THIS BUILDING HAVE BEEN CONNECTED. PRIOR TO DEMOLITION, COORDINATE WITH VA COR TO ENSURE ALL FIBER IS INACTIVE BEFORE DEMOLITION.
   - I. EXISTING CABLE TRAY TO REMAIN.
   - J. COPPER PHONE PUNCH DOWN BLOCKS SHALL REMAIN UNLESS OTHERWISE NOTED.
7. DEMOLISH ALL TELECOMMUNICATIONS CABLE THAT IS NOT TERMINATED AT BOTH ENDS AT A CONNECTOR OR OTHER EQUIPMENT AND NOT IDENTIFIED 'FOR FUTURE USE' WITH A TAG. ENSURE DEMOLITION OF ABANDONED CABLE WILL NOT DISRUPT VA OPERATIONS PRIOR TO REMOVAL. WHERE DISRUPTION OF SERVICE OCCURS DUE TO DEMOLISHED CABLE, NEW CABLE SHALL BE INSTALLED TO RESTORE THE SYSTEM AT THE CONTRACTOR'S EXPENSE.
8. PRIOR TO DEMOLITION, COORDINATE DISPOSAL WITH VA. ALL VA STANDARDS, EPA STANDARDS AND LOCAL STANDARDS MUST BE FOLLOWED WHEN DISPOSING OF ASBESTOS EXPOSED ITEMS.

PLAN NORTH N

1/2" = 1'-0" 1 0 1 2 3 4 5 SCALE FEET

Revisions:	Date:

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Facilities Management Services

VA U.S. Department of Veterans Affairs

Drawing Title: TELECOMMUNICATIONS DEMOLITION ENLARGED PLAN

Approved:

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Phase: FINAL BID DOCUMENTS

Project Title: EHRM INFRASTRUCTURE UPGRADES

Location: 1100 TUNNEL ROAD ASHEVILLE, NC 28805

Issue Date: 12.19.2025

Checked

Drawn

Project Number: 637-22-700

Building Number: BLDG 70

Drawing Number: 70-TD401

SHEET 538 of 559

VA FORM 08 - 6231

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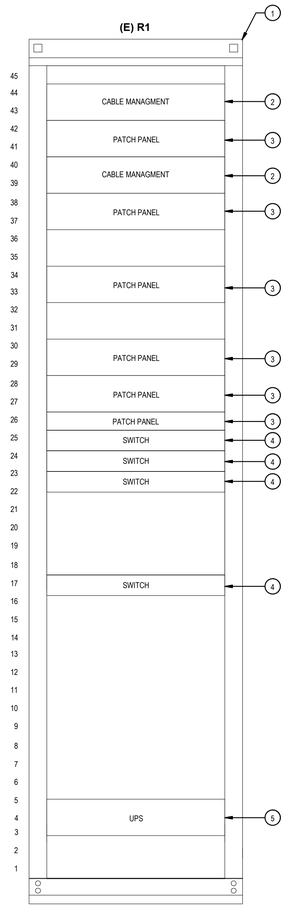

HORIZONTAL CABLES	239
PATCH CORD	131
TOTAL PORTS	(48 x 5) + (24 x 1) = 264

1 (E) TR 129 - TELECOMMUNICATIONS RACK ELEVATION

N.T.S.

SHEET NOTES:

1. 45U 2-POST RACK TO BE DEMOLISHED.
2. WIRE MANAGEMENT TO BE DEMOLISHED.
3. COPPER PATCH PANEL AND CABLES TO BE DEMOLISHED.
4. SWITCH TO BE DECOMMISSIONED. COORDINATE EQUIPMENT TURN OVER WITH VA OIT.
5. UPS TO BE DECOMMISSIONED. COORDINATE EQUIPMENT TURN OVER WITH VA OIT.

Revisions:	Date:

ARCHITECT/ENGINEER OF RECORD

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12/18/2025

Facilities Management Services

VA U.S. Department of Veterans Affairs

Drawing Title: TELECOMMUNICATIONS DEMOLITION RACK ELEVATIONS	Phase: FINAL BID DOCUMENTS	Project Title: EHRM INFRASTRUCTURE UPGRADES	Project Number: 637-22-700
			Building Number: BLDG 70
Approved:		Location: 1100 TUNNEL ROAD ASHEVILLE, NC 28805	Drawing Number: 70-TD601
FOR OFFICIAL USE ONLY		Issue Date: 12.19.2025 / Checked: / Drawn:	SHEET 539 of 559

VA FORM 08 - 6231

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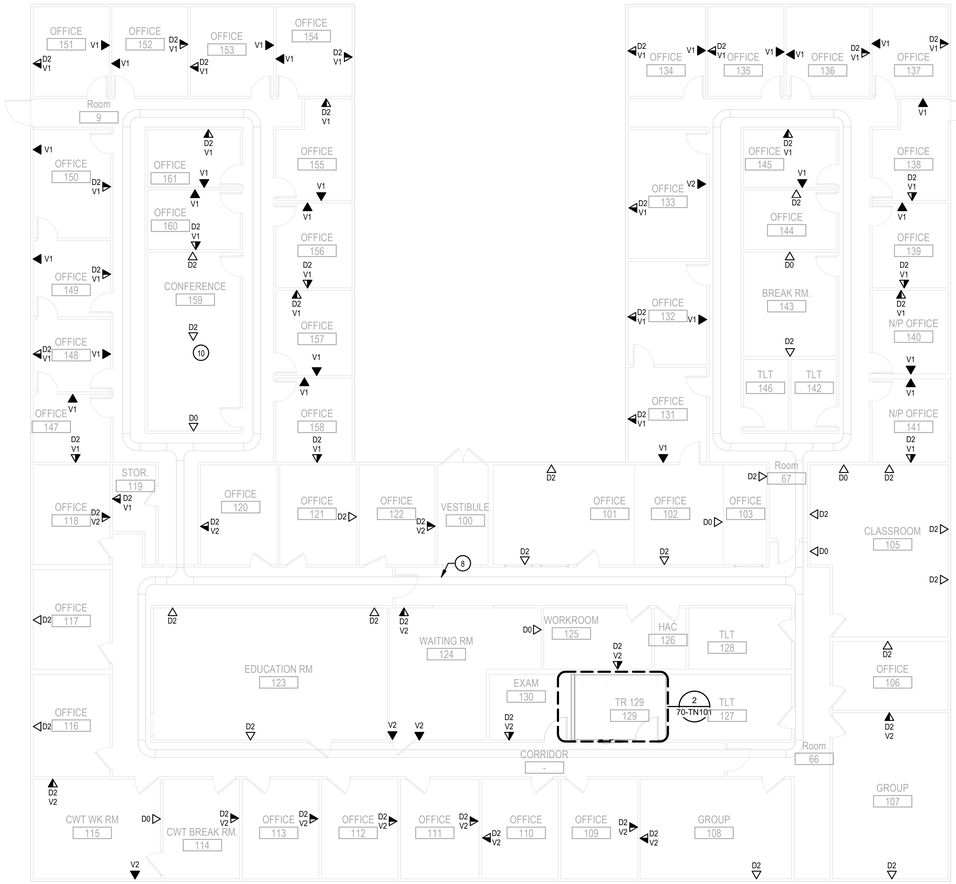
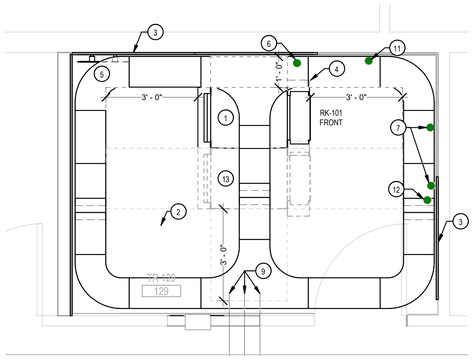


1 TELECOMMUNICATIONS 1ST FLOOR PLAN
1/8" = 1'-0"

2 TELECOMMUNICATIONS 129 ENLARGED PLAN
1/2" = 1'-0"



SHEET NOTES:

1. PROVIDE 45U 4-POST CHANNEL RACK.
2. PROVIDE WIRE BASKET STYLE CABLE TRAY.
3. 4' BY 8' AC GRADE 3/4" TRADE SIZE PLYWOOD BACKBOARD PAINTED HIGH-GLOSS WHITE WITH TWO COATS OF FIRE RESISTANT PAINT ON A MINIMUM OF THREE WALLS. ENSURE INSTALLATION HAS NO GAPS.
4. PROVIDE 6" VERTICAL CABLE MANAGEMENT AT THE ENDS OF THE RACKS AND BETWEEN EACH RACK.
5. LOCATION OF PRIMARY BONDING BUS BAR (PBB) ON PLYWOOD BACKBOARD. EXISTING PBB MAY BE USED IF IT HAS SUFFICIENT BONDING SPACES, OTHERWISE PROVIDE NEW PBB. REFER TO SHEET 00-T501 FOR GROUNDING AND BONDING DETAILS.
6. LOCATION OF RELOCATED POTS CONDUIT. MOVE EXISTING POTS CONDUIT AND BACKBONE, AND RECONNECT THE POTS LINE. REFER TO 70-TD401 FOR EXIST POTS CONDUIT LOCATION.
7. EXISTING CONDUITS.
8. EXISTING LADDER RACK (TYP). ROUTING BASED ON BEST AVAILABLE INFORMATION, CONTRACTOR TO FIELD VERIFY ROUTING. NEW CAT6A CABLES TO BE RUN IN EXISTING LADDER RACK.
9. PROVIDE (3) 4" CONDUITS TO EXISTING CABLE TRAY FOR HORIZONTAL DISTRIBUTION TO WORK AREA OUTLETS. PROVIDE FIRE STOPPING AS REQUIRED.
10. NEW WORK AREA OUTLETS SHOWN TO BE FLOATING ON THESE PLANS WERE FOUND ON, AND/OR MEANT TO BE MOUNTED ON FURNITURE/WORKSTATIONS.
11. IN EXISTING 4" CONDUIT, PROVIDE (1) 24ST OS2 FIBER OPTIC PULLED FROM THE EXISTING HANDHOLE TO THE PLAN SOUTH OF THE BUILDING. REFER TO SHEET 00-TS100 FOR MORE DETAILS ON SITE ROUTING. FIBER TO BE FED FROM THE A SIDE MDA IN BUILDING 47. PROVIDE FIRE STOPPING AS REQUIRED.
12. IN EXISTING 4" CONDUIT, PROVIDE (1) 24ST OS2 FIBER OPTIC PULLED FROM THE EXISTING HANDHOLE TO THE PLAN SOUTH OF THE BUILDING. REFER TO SHEET 00-TS100 FOR MORE DETAILS ON SITE ROUTING. FIBER TO BE FED FROM THE B SIDE MDA IN BUILDING 47. PROVIDE FIRE STOPPING AS REQUIRED.
13. SPACE RESERVED FOR FUTURE 45U 4-POST CHANNEL RACK. NOT IN SCOPE.

GENERAL NOTES:

1. FIRE/SMOKE WALL RECORD DRAWINGS WERE NOT PROVIDED BY THE STATION. FIELD-VERIFY EXISTING PARTITION WALLS TO IDENTIFY FIRE/SMOKE RATING AND PROVIDE ALL REQUIRED MEASURES AND APPROPRIATE EQUIPMENT IN ACCORDANCE WITH THE VERIFIED PARTITION TYPE.
2. REFER TO 00-T001 FOR GENERAL NOTES AND LEGENDS.
3. ALL EXISTING CABLES AND INFRASTRUCTURE NOT CAT6A RATED TO BE REPLACED WITH CAT6A CABLING.
4. CONTRACTOR TO VERIFY ALL DATA OUTLET LOCATIONS IN THE FIELD.
5. THE QUANTITY OF TELECOM DROPS TO BE REMOVED, INSTALLED, AND MAINTAINED IS BASED ON THE INFORMATION KNOWN AT THE TIME OF DESIGN. PRIOR TO CONSTRUCTION, TELECOM DROP LOCATIONS SHALL BE SURVEYED. ANY DISCREPANCIES SHALL BE PROVIDED TO THE VA COR IMMEDIATELY.
6. WHERE DROP CEILING TILES ARE DISTURBED FOR INSTALLATION OF TELECOMMUNICATIONS CABLE, INNERDUCT, CABLE TRAY, ETC. , ENSURE ALL DUST AND PARTICLES ARE CLEANED PRIOR TO LEAVING THE DISTURBED AREA. PROVIDE NEW DROP CEILING TILES WHERE TILES ARE DAMAGED DURING CONSTRUCTION.
7. ALL ROUTING FOR NEW BACKBONE CABLE SHALL BE ROUTED IN CORRUGATED INNERDUCT.
8. NEW WORK AREA OUTLET/DATA DROP LOCATIONS IN BUILDING 70 ARE CURRENTLY UNDER COORDINATION WITH THE PROJECT COR.

1/2" = 1'-0" SCALE (1 0 1 2 3 4 5) FEET

1/8" = 1'-0" SCALE (5 0 5 10 15 20) FEET

PLAN NORTH N

Revisions:	Date:

ARCHITECT/ENGINEER OF RECORD

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Jinze Chen
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12/18/2025

Facilities Management Services

VA U.S. Department of Veterans Affairs

Drawing Title: TELECOMMUNICATIONS 1ST FLOOR PLAN

Approved:

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Phase: FINAL BID DOCUMENTS

Project Title: EHRM INFRASTRUCTURE UPGRADES

Location: 1100 TUNNEL ROAD ASHEVILLE, NC 28805

Issue Date: 12.19.2025

Checked:

Drawn:

Project Number: 637-22-700

Building Number: BLDG 70

Drawing Number: 70-TN101

SHEET 540 of 559

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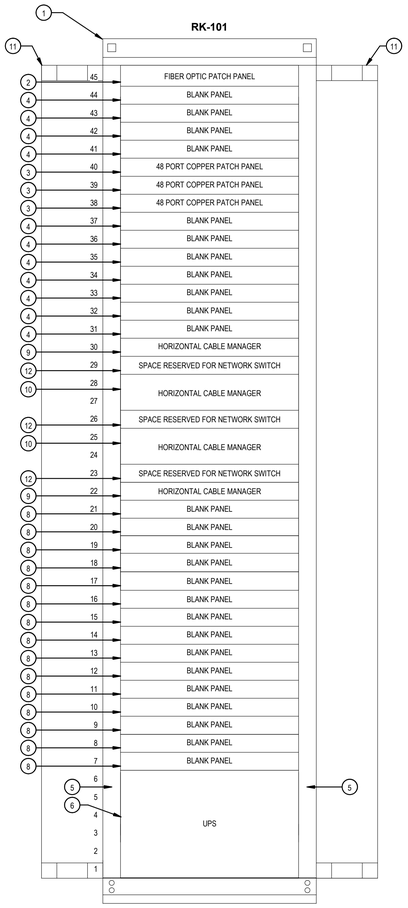
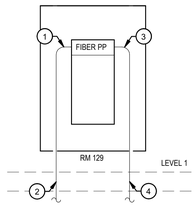


DATA PORTS	126
DATA PORTS + 10% OVERAGE	139
TOTAL SPARE PORTS	(48 x 3) - 139 = 5

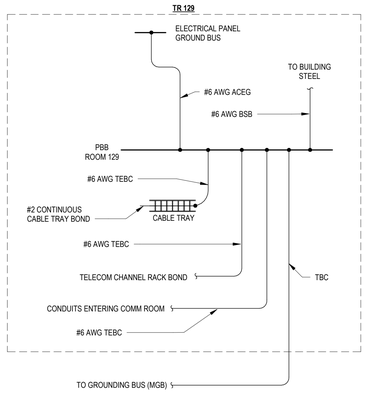
1 TR 129 - TELECOMMUNICATIONS RACK ELEVATION
N.T.S.



DETAIL NOTES:

1. FIBER FROM CORE 1 IN BUILDING 47 LANDING ON FIBER OPTIC PATCH PANEL IN TR: (1) 24ST OS2 SINGLE MODE FIBER
2. FIBER ORIGINATING FROM CORE 1 IN BUILDING 47: (1) 24ST OS2 SINGLE MODE FIBER
3. FIBER FROM CORE 2 IN BUILDING 47 LANDING ON FIBER OPTIC PATCH PANEL IN TR: (1) 24ST OS2 SINGLE MODE FIBER
4. FIBER ORIGINATING FROM CORE 2 IN BUILDING 47: (1) 24ST OS2 SINGLE MODE FIBER

2 TELECOMMUNICATIONS RISER DIAGRAM
N.T.S.



GROUNDING NOTES:

1. METALLIC TELECOM RACEWAY AND EQUIPMENT SHALL BE GROUNDED. BOND RACEWAY TO NEAREST TELECOM GROUND BUS USING A TEBC, #6 AWG MINIMUM.
2. TELECOM GROUNDING SYSTEM MUST BE IN ACCORDANCE WITH TIA-607 AND THE VA DESIGN STANDARDS.
3. COAXIAL METAL SHEATH MUST BE GROUNDED AND BONDED PER NEC REQUIREMENTS.
4. TBB CONDUCTOR MUST BE SIZED BASED ON THE TABLE BELOW, SIZING OF TELECOM BONDING BACKBONE.

ACRONYMS

ACEG	ALTERNATING CURRENT EQUIPMENT GROUND
BBC	BACKBONE BONDING CONDUCTOR
BSB	BUILDING STRUCTURE BONDING
MGB	MAIN GROUNDING BUS
PBB	PRIMARY BONDING BUSBAR
SBB	SECONDARY BONDING BUSBAR
TBB	TELECOMMUNICATIONS BACKBONE BONDING CONDUCTOR
TBC	TELECOMMUNICATIONS BONDING CONDUCTOR
TEBC	TELECOMMUNICATIONS EQUIPMENT BONDING CONDUCTOR

SIZING OF TELECOM BONDING BACKBONE

TBB LINEAR FT	TBB SIZE (AWG)
<13	6
14-20	4
21-26	3
27-33	2
34-41	1
42-52	1/0
53-66	2/0
67-84	3/0
85-105	4/0
106-125	250KCMIL
126-150	300KCMIL
151-175	350KCMIL
176-250	500KCMIL
251-300	600KCMIL
>301	750KCMIL

3 TELECOMMUNICATIONS GROUNDING RISER DIAGRAM
N.T.S.

SHEET NOTES:

1. 45U FREE STANDING 4-POST RACK, 19 INCHES.
2. 144 STRAND FIBER OPTIC ANGLED PATCH PANEL WITH SPLICE KIT, LC CONNECTORS, 1U.
3. 48-PORT UTP CAT6A ANGLED PATCH PANEL AND CABLES, 1U.
4. ANGLED BLANKING PANEL, 1U.
5. RACK MOUNTED POWER DISTRIBUTION UNIT, MOUNTED VERTICALLY ON THE REAR OF THE RACK, L21-20 INPUT POWER CORD PLUG TYPE.
6. RACK MOUNTED 5KW, 208V UNINTERRUPTIBLE POWER SUPPLY, 6U.
7. RACK MOUNTED ZONE PDU, 2U.
8. FLAT BLANKING PANEL, 1U.
9. FLAT HORIZONTAL CABLE MANAGEMENT, 1U.
10. FLAT HORIZONTAL CABLE MANAGEMENT, 2U.
11. VERTICAL CABLE MANAGER, 6" WIDE ON EACH SIDE OF AND IN BETWEEN RACKS.
12. SPACE RESERVED FOR NETWORK ACCESS SWITCH, 1U. TO BE PROVIDED BY VA AND INSTALLED BY LOCAL OIT (GFGI).

GENERAL NOTES:

1. REFER TO 00-T-001 FOR GENERAL NOTES AND LEGENDS.
2. PROVIDE RACK MOUNTED GROUND BAR AT THE REAR OF EACH RACK. EXISTING RACK MOUNTED GROUND BAR MAY BE REUSED IF IT HAS SUFFICIENT BONDING SPACES, OTHERWISE PROVIDE NEW RACK MOUNTED GROUND BAR.

Revisions:	Date:

ARCHITECT/ENGINEER OF RECORD

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Facilities Management Services

VA U.S. Department of Veterans Affairs

Drawing Title: TELECOMMUNICATIONS DIAGRAMS
Phase: FINAL BID DOCUMENTS
Project Title: EHRM INFRASTRUCTURE UPGRADES
Project Number: 637-22-700
Building Number: BLDG 70
Approved:
Location: 1100 TUNNEL ROAD ASHEVILLE, NC 28805
Drawing Number: 70-TN601
Issue Date: 12.19.2025
Checked:
Drawn:
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SHEET 541 of 559

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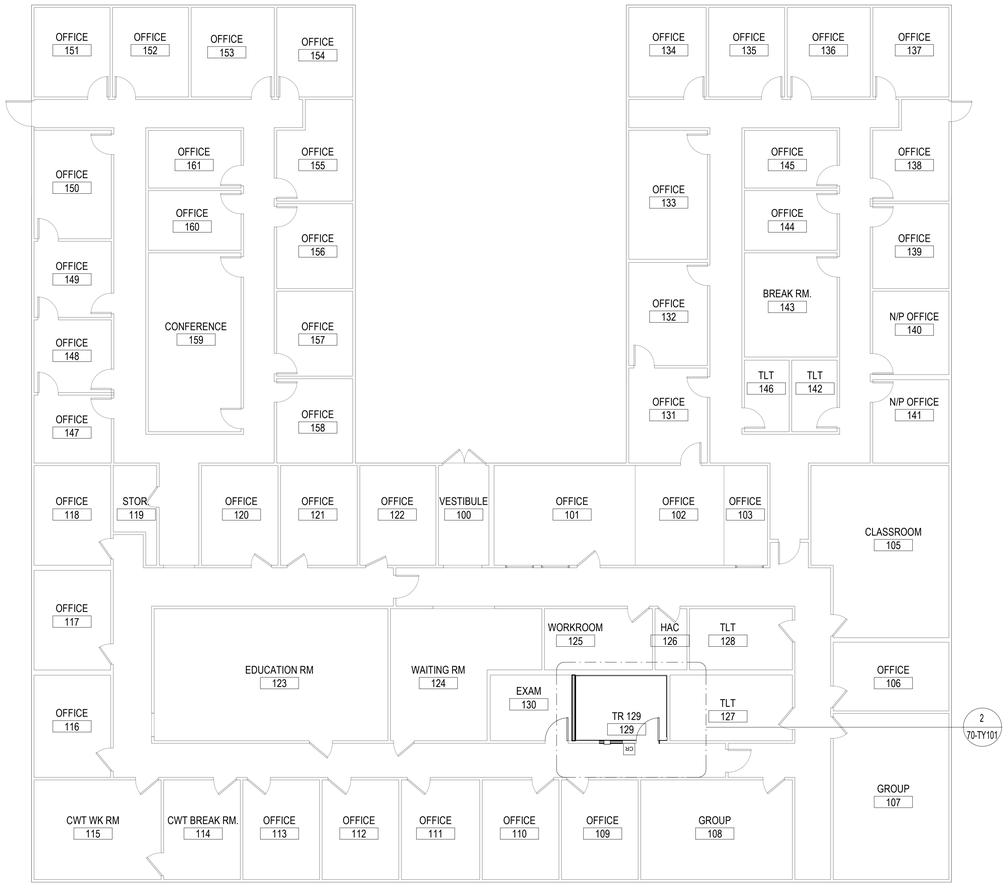
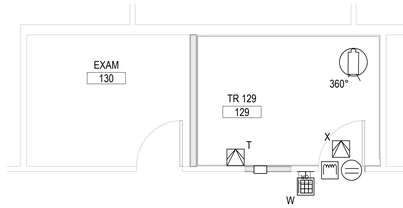


1 1ST FLOOR SECURITY PLAN

1/8" = 1'-0"

1/8" = 1'-0" SCALE 5 0 5 10 15 20 FEET



2 ENLARGED SECURITY PLAN

1/4" = 1'-0"

1/4" = 1'-0" SCALE 2 0 2 4 6 8 10 FEET

SHEET NOTES:

1. COORDINATE MOUNTING HEIGHTS AND INSTALLATION DETAILS WITH ARCHITECTURAL DRAWINGS.
2. BASE BUILDING SECURITY SYSTEM IS JOHNSON CONTROLS (JCI). COORDINATE SECURITY SYSTEM CABINETS, HEAD-ENDS, AND ASSOCIATED INFRASTRUCTURE TO FEED NEW CAMERA AND ACCESS CONTROL DEVICES WITH BASE BUILDING SECURITY VENDOR.
3. CONTRACTOR TO SUBMIT SHOP DRAWINGS FOR REVIEW AND APPROVAL BY AE WHICH ARE PREPARED BY BASE BUILDING SECURITY SYSTEM VENDOR. DRAWINGS TO INCLUDE ALL NECESSARY COMPONENTS AND BACK-END EQUIPMENT LOCATIONS FOR A COMPLETE AND FULLY FUNCTIONAL SYSTEM.
4. CONTRACTOR SHALL VERIFY IN FIELD EXISTING AVAILABLE NETWORK SWITCHES. NEW CAMERAS SHALL BE CONNECTED TO NEAREST AVAILABLE NETWORK SWITCH. FOR BID PURPOSES, ASSUME 300FT CABLE LENGTH FROM CAMERA TO SECURITY SWITCH.
5. ACCESS CONTROL SYSTEM: NEW ACCESS CONTROL PROVISIONS TO BE INSTALLED FOR ALL NEW, RELOCATED, OR EXPANDED TELECOM ROOMS. CONTRACTOR TO COORDINATE ALL HARDWARE AND LOCATIONS WITH BASE BUILDING SECURITY SYSTEM VENDOR AND VA STAFF.
6. SSTV SYSTEM: NEW SECURITY CAMERAS TO BE INSTALLED FOR ALL NEW, RELOCATED, OR EXPANDED TELECOM ROOMS. CONTRACTOR TO COORDINATE ALL HARDWARE AND LOCATIONS WITH BASE BUILDING SECURITY SYSTEM VENDOR AND VA STAFF.
7. ALL CONDUIT AND BACK BOXES REQUIRED FOR THE INSTALLATION OF SECURITY DEVICES AND EQUIPMENT TO BE PROVIDED BY DIV. 26 CONTRACTOR. COORDINATE WITH THE VA FACILITIES DEPARTMENT FOR EXACT LOCATION OF DEVICES.
8. REFERENCE ARCHITECTURAL SHEETS FOR ALL DOOR TYPES, ENCLOSURES, FRAME DETAILS AND PATHWAYS.
9. ALL TELECOM RACKS TO BE PROVIDED BY DIV. 27 CONTRACTOR.
10. ALL SECURITY HEAD-END EQUIPMENT IS EXISTING TO REMAIN. EXISTING CAMERAS BEING FED FROM DECOMMISSIONED TELECOM RACKS, PER TELECOM DRAWINGS AND SCOPE, SHALL BE RE-FED FROM NEW/REPLACEMENT RACKS IN NEW TELECOM ROOM LOCATION. COORDINATE WITH TELECOM DRAWINGS FOR MORE INFORMATION.
11. COORDINATE WITH DOOR HARDWARE SCHEDULE IN ARCHITECTURAL DRAWING SET FOR LOCKING MECHANISM TYPE FOR SECURITY INTEGRATION (ELECTRIC LATCH, ELECTRIC STRIKE, MAGNETIC LOCK). PROVIDE ALL HARDWARE AND ACCESSORIES NECESSARY.
12. MOTION DETECTOR REX TO BE PROGRAMMED AND INTEGRATED WITH DOOR HARDWARE TO PREVENT LOCKING OF DOOR IF ROOM IS OCCUPIED. INSTALL REX MOTION SENSOR ABOVE DOOR FRAME.
13. PROVIDE TRI-TECH MOTION SENSOR IN TR'S (SEPARATE FROM REX) FOR ROOM OCCUPANCY MONITORING TIED TO PACS SYSTEM.
14. SUBMIT COMPLETE ACCESS CONTROL AND VIDEO SURVEILLANCE SUBMITTAL PACKAGE PER SPECIFICATION SECTIONS 282300-1.5D AND 281300-1.4D.

SYMBOLS LEGEND:

- W — CARD READER WITH KEYPAD (W - WALL MTD)
- 360° — CEILING MTD. CAMERA, 360 DEGREE, W/ SUPPLEMENTAL IR RING.
- E — ELECTRONIC LOCK
- SECURITY ACCESS, SWITCH, BALANCED MAGNETIC CONTROL
- MOTION DETECTOR
  - T-ROOM OCCUPANCY MOTION SENSOR (TRI-TECH- PIR, MICROWAVE, DOPPLER)
  - X-REQUEST-TO-EXIT MOTION SENSOR (DUAL TECH- PIR, MICROWAVE)
- DPS — ACCESS CONTROL DOOR POSITION SWITCH

VENDOR CONTACT INFORMATION:

BRIAN SHALLENBERGER
JOHNSON CONTROLS
GREENVILLE-SPARTANBURG, SC
BRIAN.SHALLENBERGER@JCI.COM

PLAN NORTH N

FINAL BID DOCUMENTS

Revisions:	Date:

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Facilities Management Services

VA U.S. Department of Veterans Affairs

Drawing Title: 1ST FLOOR SECURITY PLAN

Approved:

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Phase: FINAL BID DOCUMENTS

Project Title: EHRM INFRASTRUCTURE UPGRADES

Location: 1100 TUNNEL ROAD ASHEVILLE, NC 28805

Issue Date: 12.19.2025

Checked

Drawn

Project Number: 637-22-700

Building Number: 70

Drawing Number: 70-TY101

SHEET 542 of 559

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EHRM INFRASTRUCTURE UPGRADES

CHARLES GEORGE VA MEDICAL CENTER

1100 TUNNEL ROAD ASHEVILLE, NC 28805

BLDG 73

FINAL BID DOCUMENTS

12.19.2025

DESIGN TEAM

OWNER

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VA | U.S. Department of Veterans Affairs

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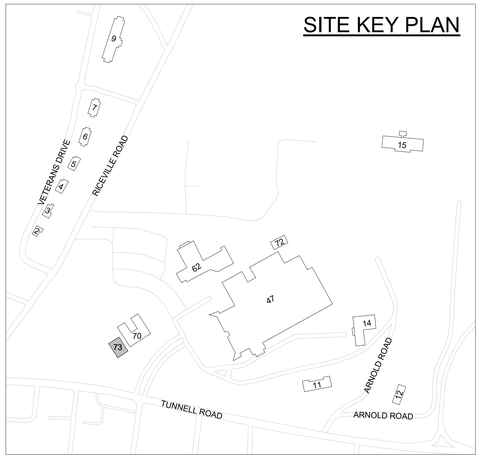
lars.iverson@coffman.com
(919) 670-3668

COFFMAN ENGINEERS

SITE KEY PLAN



Sheet List

Sheet Number	Sheet Name
BLDG 73	
01 - GENERAL	
73-GI001	COVER SHEET
07-STRUCTURAL	
73-SF101	STRUCTURAL 1ST FLOOR PLAN
08 - ARCHITECTURE	
73-AD101	1ST FLOOR DEMO PLAN, ENLARGED PLAN & ENLARGED RCP
73-AE101	1ST FLOOR PLAN, RCP, DOOR SCHEDULE & INTERIOR ELEVATIONS
12-PLUMBING	
73-PP101	PLUMBING 1ST FLOOR PLAN
14-MECHANICAL	
73-MP101	MECHANICAL 1ST FLOOR PLAN
73-MP102	MECHANICAL ROOF PLAN
73-MG601	MECHANICAL SCHEDULES
15-ELECTRICAL	
73-ED101	ELECTRICAL 1ST FLOOR DEMOLITION
73-EP101	ELECTRICAL 1ST FLOOR PLAN
73-EP102	ELECTRICAL ROOF PLAN
73-EP601	ONE-LINE DIAGRAM AND SCHEDULES
16-TELECOMMUNICATION	
73-TD101	TELECOMMUNICATIONS 1ST FLOOR DEMOLITION
73-TD601	TELECOMMUNICATIONS DEMOLITION RACK ELEVATIONS
73-TN101	TELECOMMUNICATIONS 1ST FLOOR PLAN
73-TN601	TELECOMMUNICATIONS DIAGRAMS
16.4 - PHYSICAL SECURITY	
73-TY101	1ST FLOOR SECURITY PLAN
Grand total: 17	

FINAL BID DOCUMENTS

Revisions:	Date:

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Facilities Management Services

VA U.S. Department of Veterans Affairs

Drawing Title: COVER SHEET

Approved:

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Phase: FINAL BID DOCUMENTS

Project Title: EHRM INFRASTRUCTURE UPGRADES

Project Number: 637-22-700

Building Number: 73

Location: 1100 TUNNEL ROAD ASHEVILLE, NC 28805

Issue Date: **12.19.2025**

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Drawn

Drawing Number: 73-GI001

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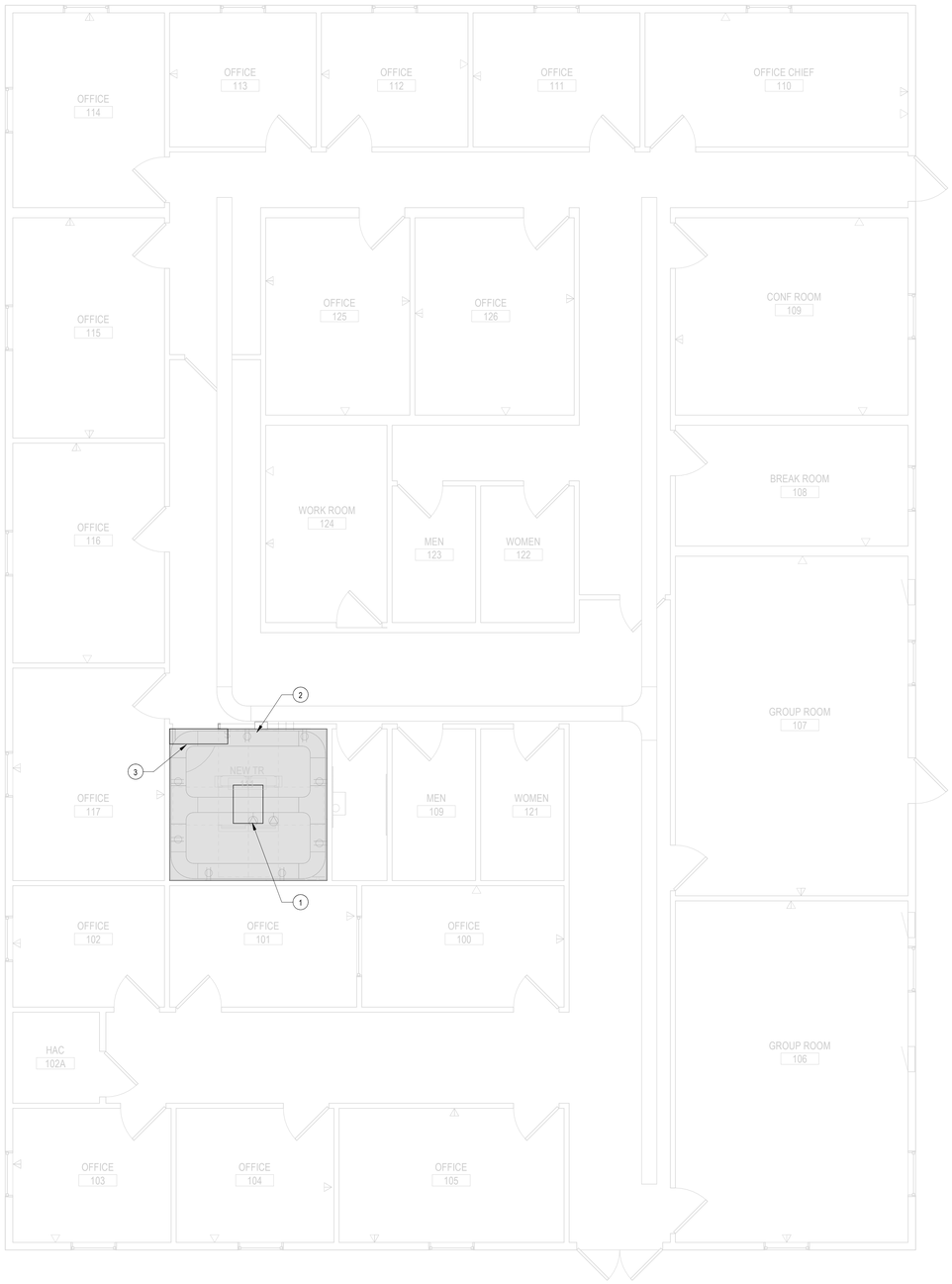

1 STRUCTURAL 1ST FLOOR PLAN
1/4" = 1'-0"

SHEET NOTES:

1. (N) FLOOR MOUNTED TELECOM RACK. SEE DETAIL 11/00-S503 OR 12/00-S503
2. (N) CABLE TRAY SUPPORT, SEE DETAIL 1/00-S503 OR 3/00-S503
3. PROVIDE METAL STUD BACKING AT (N) WALL MOUNTED SPLIT SYSTEM UNIT PER DETAIL 10/00-S503 SEE MECH. DRAWINGS FOR UNIT LOCATION

GENERAL NOTES:

1. FIRE/SMOKE WALL RECORD DRAWINGS WERE NOT PROVIDED BY THE STATION. FIELD-VERIFY EXISTING PARTITION WALLS TO IDENTIFY FIRE/SMOKE RATING AND PROVIDE ALL REQUIRED MEASURES AND APPROPRIATE EQUIPMENT IN ACCORDANCE WITH THE VERIFIED PARTITION TYPE.
2. FIELD VERIFY EXISTING CONDITIONS.

PLAN NORTH N

1/4" = 1'-0" 2 0 2 4 6 8 10 SCALE FEET

FINAL BID DOCUMENTS

Revisions:	Date:

ARCHITECT/ENGINEER OF RECORD

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Drawing Title: STRUCTURAL 1ST FLOOR PLAN	Phase: FINAL BID DOCUMENTS	Project Title: EHRM INFRASTRUCTURE UPGRADES	Project Number: 637-22-700
			Building Number: BLDG 73
Approved:		Location: 1100 TUNNEL ROAD ASHEVILLE, NC 28805	Drawing Number: 73-SF101
FOR OFFICIAL USE ONLY		Issue Date: 12.19.2025 / Checked: DU / Drawn: MBH	SHEET 544 of 559

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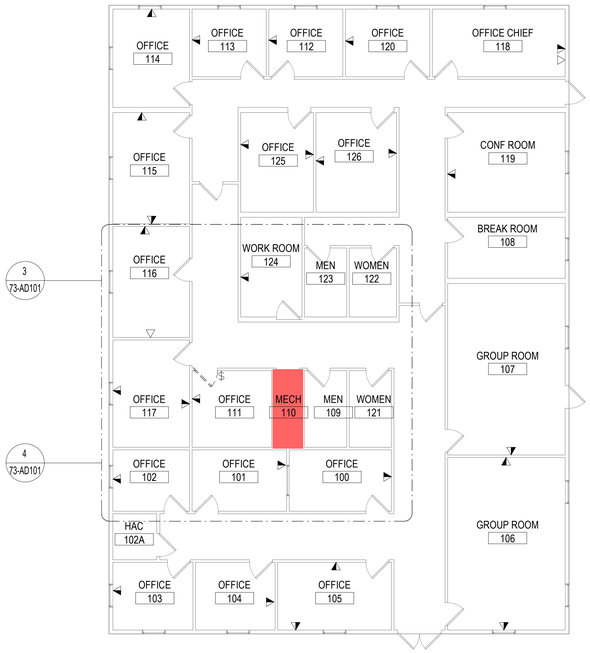
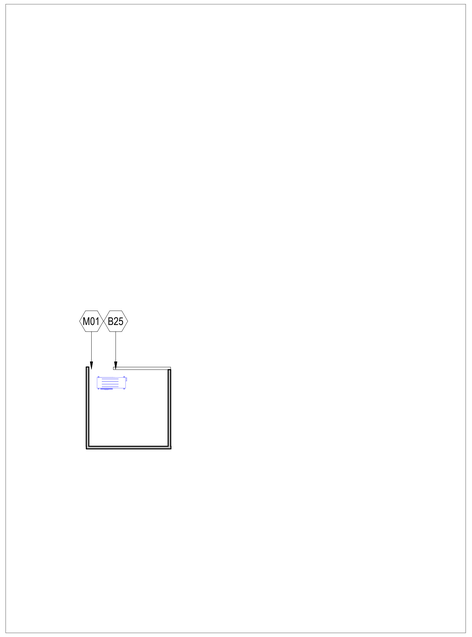
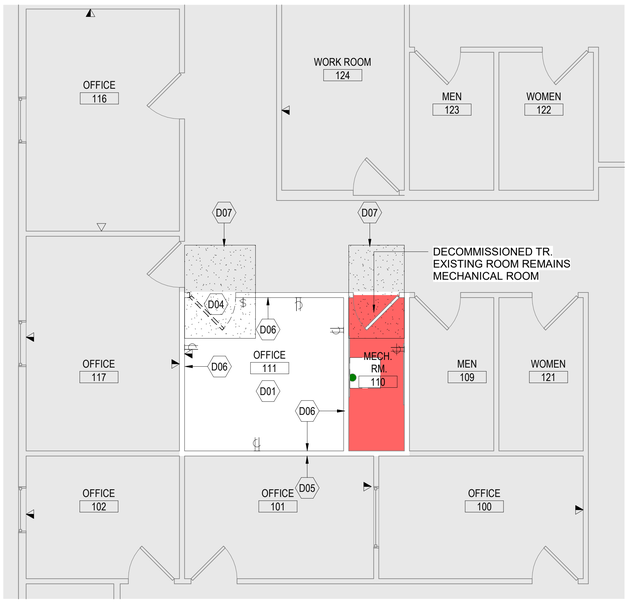


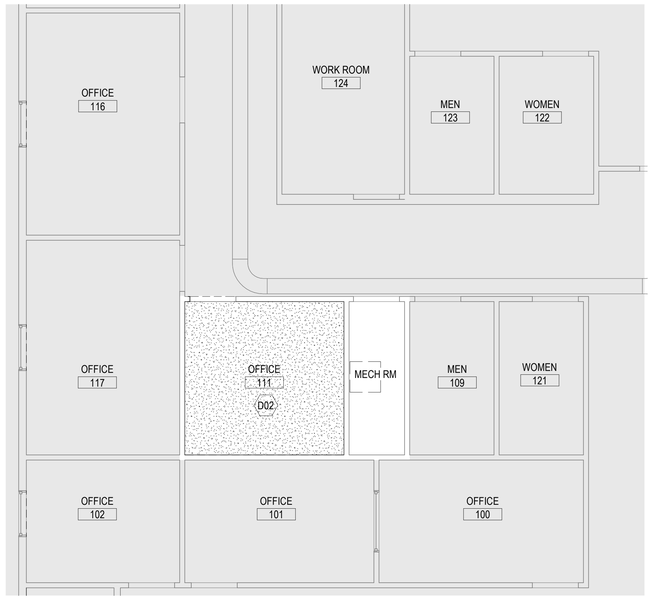
1 1ST FLOOR DEMO PLAN
1/8" = 1'-0"



2 ROOF DEMO PLAN
1/8" = 1'-0"



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



4 ENLARGED 1ST FLOOR DEMO RCP
1/4" = 1'-0"

DEMO SHEET NOTES

1. THESE DOCUMENTS DO NOT INDICATE ALL MINOR AREAS AFFECTED BY SELECTIVE DEMOLITION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR QUANTIFYING THE MATERIAL AND LABOR COSTS TO DEMOLISH, PATCH, REPAIR ADJACENT AREAS AFFECTED BY THE CONSTRUCTION INDICATED TO A "LIKE NEW" CONDITION.
2. COORDINATE WITH FIRE PROTECTION, MECHANICAL, ELECTRICAL, PLUMBING, TELECOMMUNICATIONS AND SECURITY PLANS FOR ADDITIONAL SELECTIVE DEMOLITION REQUIREMENTS NOT SHOWN ON THIS DRAWING.
3. SOME SHEET KEYNOTES LISTED BELOW MAY NOT APPLY TO THIS SHEET.
4. DIMENSIONS PRECEDED BY A TILDE (~) ARE APPROXIMATE, SUBJECT TO FIELD VERIFICATION.
5. ALL NEW INTERIOR PARTITIONS ARE TYPE 01, UNLESS OTHERWISE NOTED.
6. FIRE/SMOKE WALL RECORD DRAWINGS WERE NOT PROVIDED BY THE STATION. FIELD-VERIFY EXISTING PARTITION WALLS TO IDENTIFY FIRE/SMOKE RATING AND PROVIDE ALL REQUIRED MEASURES AND APPROPRIATE EQUIPMENT IN ACCORDANCE WITH THE VERIFIED PARTITION TYPE.

DEMO PLAN KEYNOTES

KEY TAG	DESCRIPTION
B25	PATCH AND REPAIT ROOF AT NEW MECHANICAL PENETRATIONS
D01	REMOVE EXISTING FLOORING, PREP FLOOR TO RECEIVE FLOOR FINISH SPECIFIED
D02	REMOVE EXISTING CEILING, CEILING SUPPORT, ALL FASTENERS, LIGHTING FIXTURES, VENTS, AND MEANS OF ATTACHMENT BACK TO STRUCTURE
D04	REMOVE DOOR AND FRAME, SALVAGE ALL DOOR HARDWARE AND TURN OVER TO VA, VERIFY FRAMING AND PROVIDE MODIFICATIONS NECESSARY IF DOOR INCREASES IN SIZE, PATCH ADJACENT FINISHES TO MATCH EXISTING, PAINT AFFECTED WALL TO CLOSEST CORNER
D05	REMOVE GYPSUM BOARD AND METAL FRAMING
D06	REMOVE EXISTING GYPSUM WALLBOARD FINISH
D07	PROVIDE WALK OFF MATS AT CONSTRUCTION AREAS.
M01	MECHANICAL EQUIPMENT, SEE MECHANICAL DRAWINGS

DEMOLITION LEGEND

- OUT OF SCOPE AREAS, COORDINATE WITH FIRE PROTECTION, MECHANICAL, ELECTRICAL, PLUMBING, TELECOMMUNICATIONS, AND SECURITY PLANS FOR ADDITIONAL REQUIREMENTS WITHIN THIS AREA
- REMOVE CEILING AND ASSOCIATED SUPPORT AND SEISMIC BRACING, FIXTURES, AND ACCESSORIES, TYPICAL WITHIN DEMOLITION BOUNDARY. PROTECT ADJACENT SURFACES AND EQUIPMENT. PREP ADJACENT SURFACES FOR CONSTRUCTION INDICATED
- REMOVE GYPSUM BOARD CEILING AND ASSOCIATED SUPPORT/SUSPENSION SYSTEM, FIXTURES, AND ACCESSORIES
- CONSTRUCTION TO REMAIN IN PLACE (SHOWN SOLID)
- CONSTRUCTION TO BE DEMOLISHED (SHOWN DASHED)
- TEMPORARY CONSTRUCTION BARRIER
- PATH OF EGRESS
- WALK-OFF MATS

1/8" = 1'-0" SCALE 5 0 5 10 15 20 FEET
1/4" = 1'-0" SCALE 2 0 2 4 6 8 10 FEET
PLAN NORTH N

FINAL BID DOCUMENTS

Revisions:	Date:

ARCHITECT/ENGINEER OF RECORD

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LICENSED ARCHITECT GENE HAMILTON No. C-19576 EXP. 07-31-27 STATE OF CALIFORNIA

Facilities Management Services

VA U.S. Department of Veterans Affairs

Drawing Title: 1ST FLOOR DEMO PLAN, ENLARGED PLAN & ENLARGED RCP

Approved:

FOR OFFICIAL USE ONLY

Phase: FINAL BID DOCUMENTS

Project Title: EHRM INFRASTRUCTURE UPGRADES

Location: 1100 TUNNEL ROAD ASHEVILLE, NC 28805

Issue Date: 12.19.2025

Checked

Drawn

Project Number: 637-22-700

Building Number: 73

Drawing Number: 73-AD101

SHEET 545 of 559

VA FORM 08 - 6231

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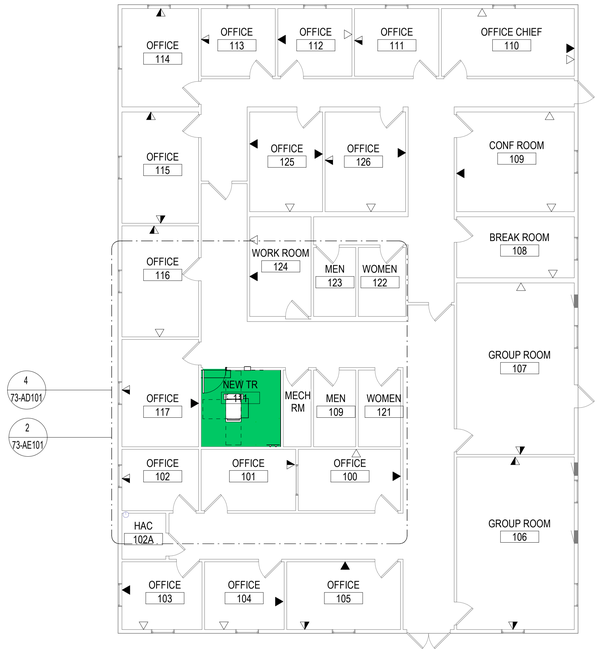


1 1ST FLOOR PLAN
1/8" = 1'-0"

DOOR SCHEDULE

MARK	FROM	TO	DOOR TYPE	DOOR WIDTH	DOOR HEIGHT	DOOR FINISH	FRAME TYPE	FRAME FINISH	FIRE RATING	HW NO	DETAILS HEAD	DETAILS JAMB	DETAILS THRESHOLD	COMMENTS
1ST FLOOR														
111	NEW TR	CORRIDOR	1	3' - 0"	8' - 0"	-	A	P		SDO-218	B5/AE511	D5/AE511	D3/AE511	CARD READER

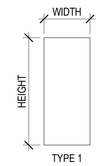
ROOM FINISH SCHEDULE

RM NO	RM NAME	FLR	BASE MATL	BASE HT	WALLS NORTH MATL	WALLS NORTH FIN	WALLS EAST MATL	WALLS EAST FIN	WALLS SOUTH MATL	WALLS SOUTH FIN	WALLS WEST MATL	WALLS WEST FIN	CEILING MATL	CEILING FIN	CEILING HT	COMMENTS
1ST FLOOR																
111	NEW TR	EPY/SD	RB	6"	GWB	P	GWB / PLYWD	P	GWB / PLYWD	P	GWB / PLYWD	P	EXP	P	N/A	

FINISH LEGEND:

EPY/SD	STATIC DISSIPATING FLUID-APPLIED ESD EPOXY FLOORING
EXP	EXPOSED
GWB	GYPSUM WALLBOARD SYSTEMS
P	FLAT OR MATTE PAINT
PLYWD	PLYWOOD
RB	RESILIENT BASE (RUBBER OR VINYL WITH FACTORY FORMED INSIDE AND OUTSIDE CORNERS

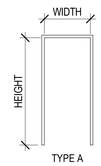
DOOR TYPES



TYPE 1

- SOLID CORE WOOD
- RED OAK VENEER
- FACTORY FINISH

FRAME TYPES



TYPE A

- 1.3 mm (0.053 INCH) GALV HM FRAME
- HOSPITAL TYPE STOPS
- PAINTED FRAME

ENLARGED PLAN SHEET NOTES

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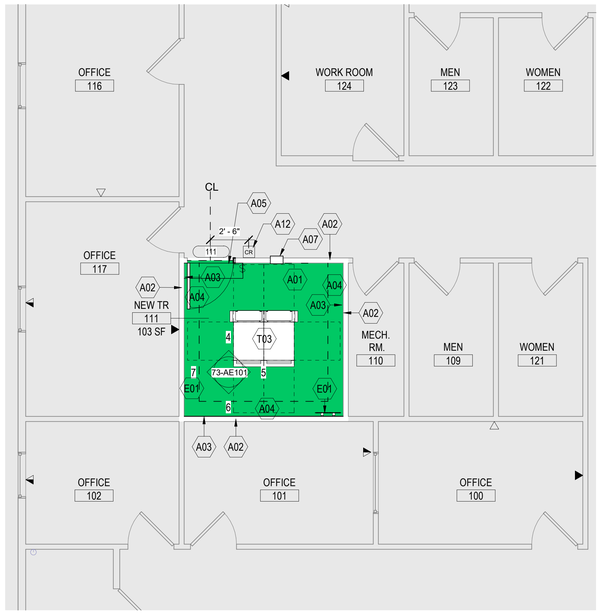
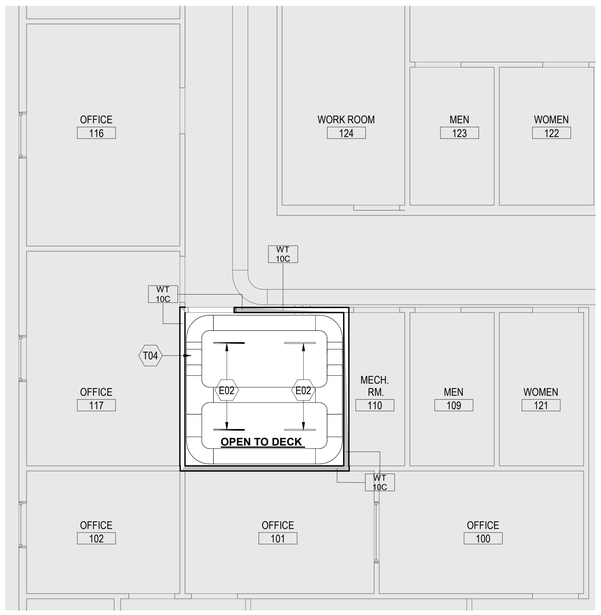
3. SOME SHEET KEYNOTES LISTED BELOW MAY NOT APPLY TO THIS SHEET.
4. DIMENSIONS PRECEDED BY A TILDE (~) ARE APPROXIMATE, SUBJECT TO FIELD VERIFICATION.
5. ALL NEW INTERIOR PARTITIONS ARE TYPE 01, UNLESS OTHERWISE NOTED.
6. FIRE/SMOKE WALL RECORD DRAWINGS WERE NOT PROVIDED BY THE STATION. FIELD-VERIFY EXISTING PARTITION WALLS TO IDENTIFY FIRE/SMOKE RATING AND PROVIDE ALL REQUIRED MEASURES AND APPROPRIATE EQUIPMENT IN ACCORDANCE WITH THE VERIFIED PARTITION TYPE.

ENLARGED PLAN KEYNOTES

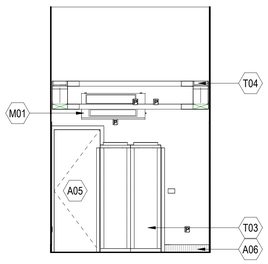
KEY TAG	DESCRIPTION
A01	STATIC DISSIPATING FLUID-APPLIED ESD EPOXY FLOORING
A02	EXTEND FULL-HEIGHT PARTITIONS TO DECK (VERIFY IN FIELD)
A03	4'-0" x 8'-0" AC GRADE 3/4" TRADE SIZE FIRE-RATED BACKBOARD PAINTED HIGH-GLOSS WHITE WITH TWO COATS OF FIRE-RESISTANT PAINT
A04	12" DEDICATED SPACE TO ACCOMMODATE SERVICE PROVIDER, SECURITY, VIDEO, ETC. EQUIPMENT MOUNTED TO BACKBOARDS
A05	DOOR AS SCHEDULED, REFER TO DOOR SCHEDULE
A06	BASE TRIM AS SCHEDULED, REFER TO SCHEDULE ON SHEET AE101
A07	PROVIDE A RETROFIT SEMI RECESSED FEC WITH A DRY AGENT FIRE EXTINGUISHER WITHIN 75' FROM TR BUT NOT IN TR. VA TO VERIFY AND FINALIZE THE FINAL LOCATION OF THE FEC.
A12	CARD READER, MOUNT 3'-6" TO B.O. READER. SEE TELECOMMUNICATIONS DRAWINGS
E01	ELECTRICAL EQUIPMENT, SEE ELECTRICAL DRAWINGS
E02	LIGHTING FIXTURES, SEE ELECTRICAL DRAWINGS
T03	TELECOMMUNICATIONS RACK SYSTEMS, SEE TELECOMMUNICATIONS DRAWINGS
T04	HORIZONTAL CABLE TRAY, SEE TELECOMMUNICATION DRAWINGS



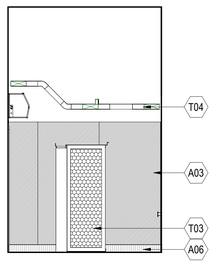
2 ENLARGED 1ST FLOOR PLAN
1/4" = 1'-0"



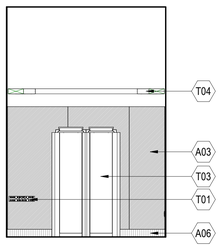
3 ENLARGED 1ST FLOOR RCP
1/4" = 1'-0"



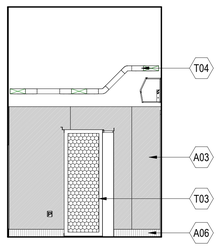
4 TR 111 - NORTH
1/4" = 1'-0"



5 TR 111 - EAST
1/4" = 1'-0"



6 TR 111 - SOUTH
1/4" = 1'-0"



7 TR111 - WEST
1/4" = 1'-0"

TR LEGEND

TR (DECOMMISSIONED)	TR (EXISTING)
TR (NEW)	TR (EXPANDED)
DATA CENTER (EXISTING)	DATA CENTER (NEW)
TE (NEW)	ER (NEW)

1/8" = 1'-0" SCALE 5 0 5 10 15 20 FEET

1/4" = 1'-0" SCALE 2 0 2 4 6 8 10 FEET

PLAN NORTH N

FINAL BID DOCUMENTS

Revisions:	Date:

ARCHITECT/ENGINEER OF RECORD

AWEN SOLUTIONS GROUP
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LICENSED ARCHITECT GENE HAMILTON KING REG. NO. C-19576 EXP. DEN. 07-31-27 STATE OF CALIFORNIA

Facilities Management Services

VA U.S. Department of Veterans Affairs

Drawing Title: 1ST FLOOR PLAN, RCP, DOOR SCHEDULE & INTERIOR ELEVATIONS

Approved:

FOR OFFICIAL USE ONLY

Phase: FINAL BID DOCUMENTS

Project Title: EHRM INFRASTRUCTURE UPGRADES

Project Number: 637-22-700

Building Number: 73

Location: 1100 TUNNEL ROAD ASHEVILLE, NC 28805

Issue Date: 12.19.2025

Checked

Drawn

Drawing Number: 73-AE101

SHEET 546 of 559

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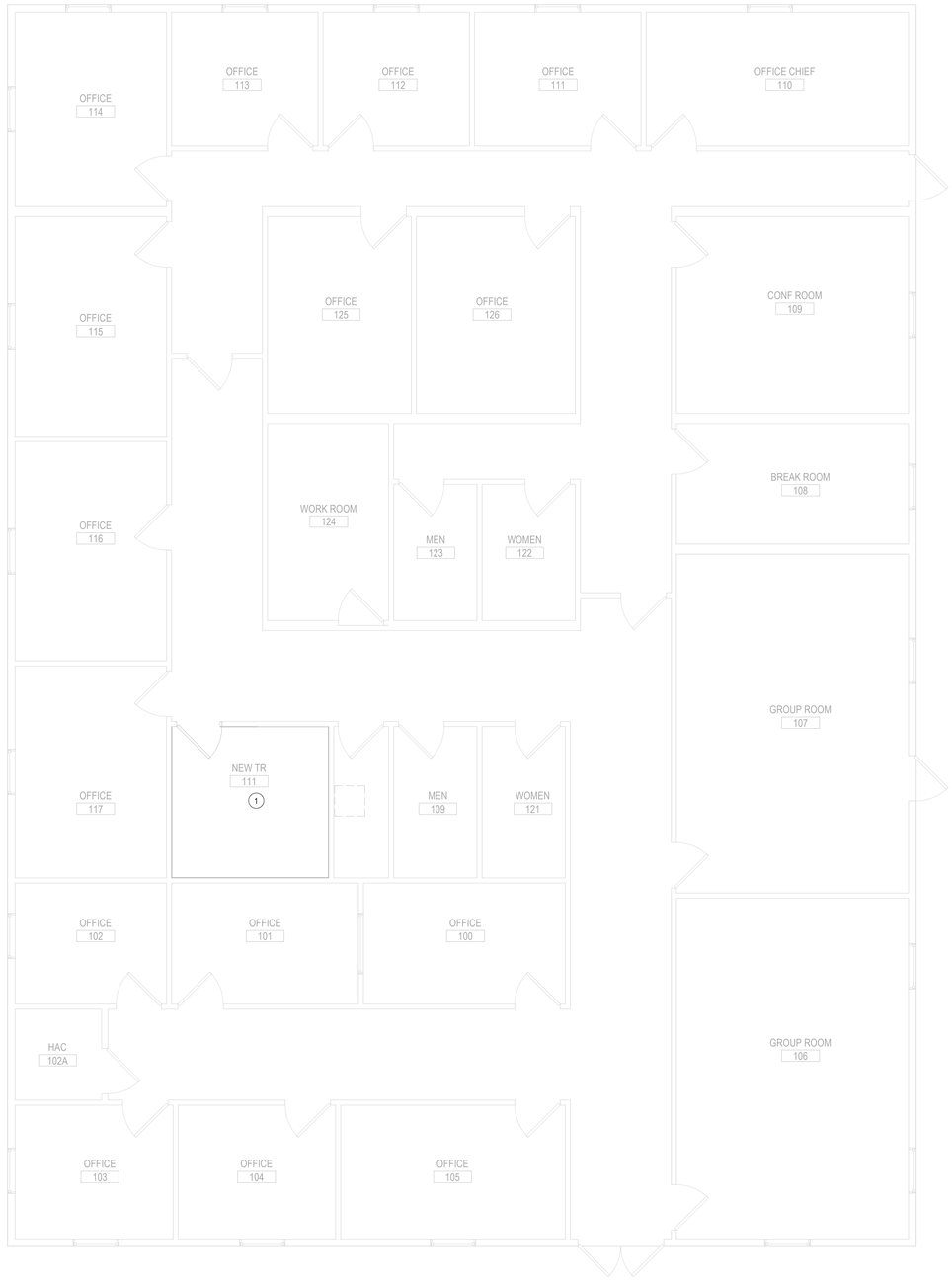
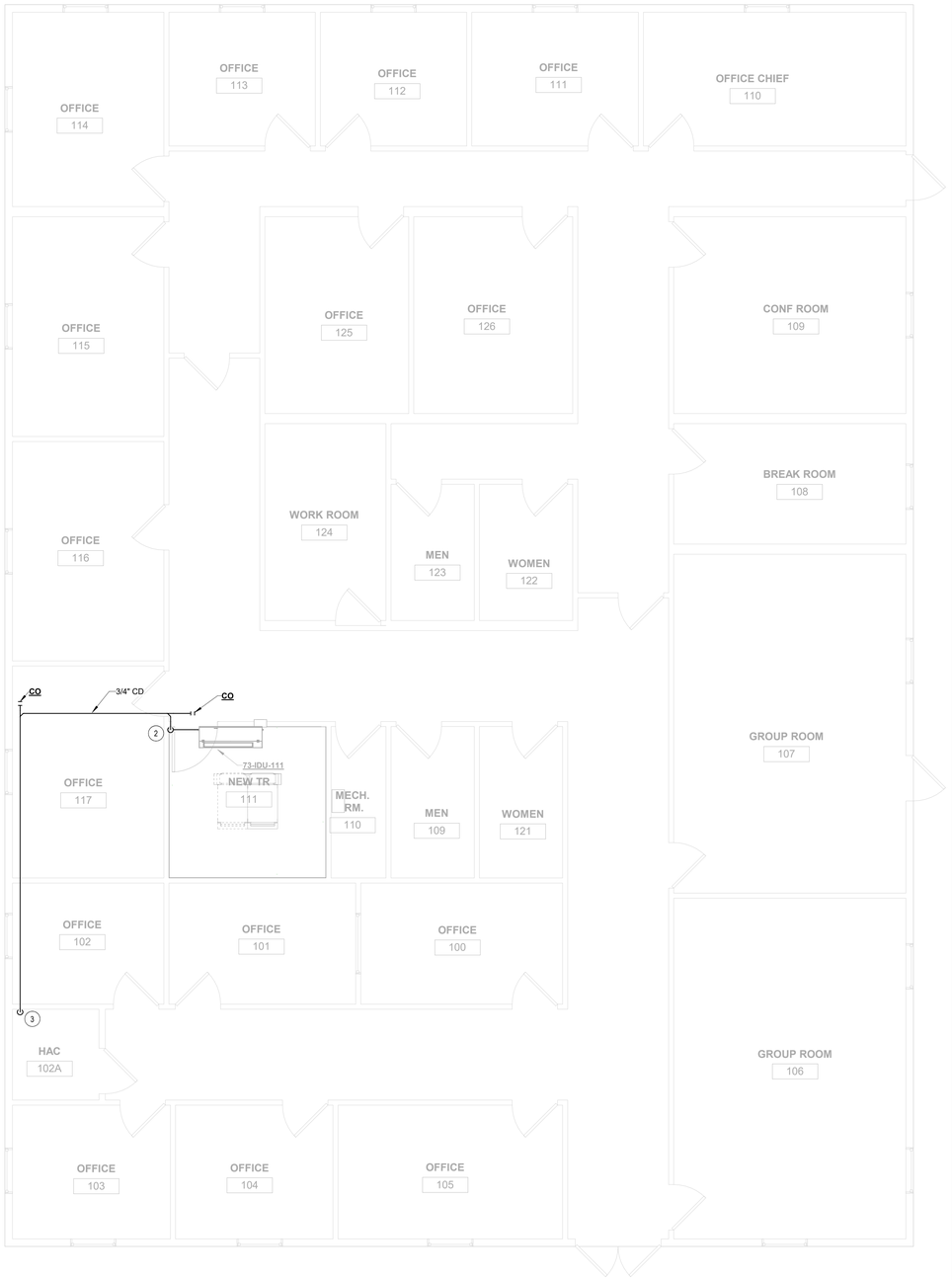


1 PLUMBING 1ST FLOOR DEMOLITION
1/4" = 1'-0"



2 PLUMBING 1ST FLOOR PLAN
1/4" = 1'-0"

SHEET NOTES:

1. NOTE ANY PLUMBING PIPING RUNNING DIRECTLY OVER THE LOCATION OF THE NEW TELECOM RACKS AND INFORM THE EOR OF ANY OCCURANCE.
2. 3/4" CD PUMPED UP TO ABOVE DROP CEILING. SEE DETAIL 3/00-P501.
3. 3/4" CD DOWN TO EXISTING MOP SINK. SEE DETAIL 3/00-P501

GENERAL NOTES:

1. FIRE/SMOKE WALL RECORD DRAWINGS WERE NOT PROVIDED BY THE STATION. FIELD VERIFY EXISTING PARTITITION WALLS TO IDENTIFY FIRE/SMOKE RATING AND PROVIDE ALL REQUIRED MEASURES AND APPROPRIATE EQUIPMENT IN ACCORDANCE WITH THE VERIFIED PARTITION TYPE.
2. CONDENSATE DRAINAGE PIPING SLOPED AT 1/8" PER FOOT.
3. PLUMBING SCOPE OF WORK IS TO PROVIDE CONDENSATE DRAIN DRAINAGE, WHEN REQUIRED, FOR ALL NEW MECHANICAL EQUIPMENT IN TELECOM ROOMS.
4. ALL ROUTING IS DIAGRAMMATIC. ACCOUNT FOR FIELD CONDITIONS DURING CONSTRUCTION.
5. CONDENSATE DRAINS SHALL NOT DISCHARGE TO CLINIC/ EXAM/TREATMENT SINKS OR LAVATORIES IN PATIENT BED ROOMS.
6. IT RACKS SHOWN FOR REFERENCE ONLY. DASHED LINES INDICATE PLACEHOLDER FOR FUTURE RACK, NOT IN CONTRACT. SEE TELECOM DRAWINGS FOR MORE INFORMATION.

PLAN NORTH N

1/4" = 1'-0" 2 0 2 4 6 8 10 SCALE FEET

FINAL BID DOCUMENTS

Revisions:	Date:

ARCHITECT/ENGINEER OF RECORD

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Facilities Management Services

VA U.S. Department of Veterans Affairs

Drawing Title: PLUMBING 1ST FLOOR PLAN

Approved:

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Phase: FINAL BID DOCUMENTS

Project Title: EHRM INFRASTRUCTURE UPGRADES

Location: 1100 TUNNEL ROAD ASHEVILLE, NC 28805

Issue Date: 12.19.2025

Checked:

Drawn:

Project Number: 637-22-700

Building Number: BLDG 73

Drawing Number: 73-PP101

SHEET 547 of 559

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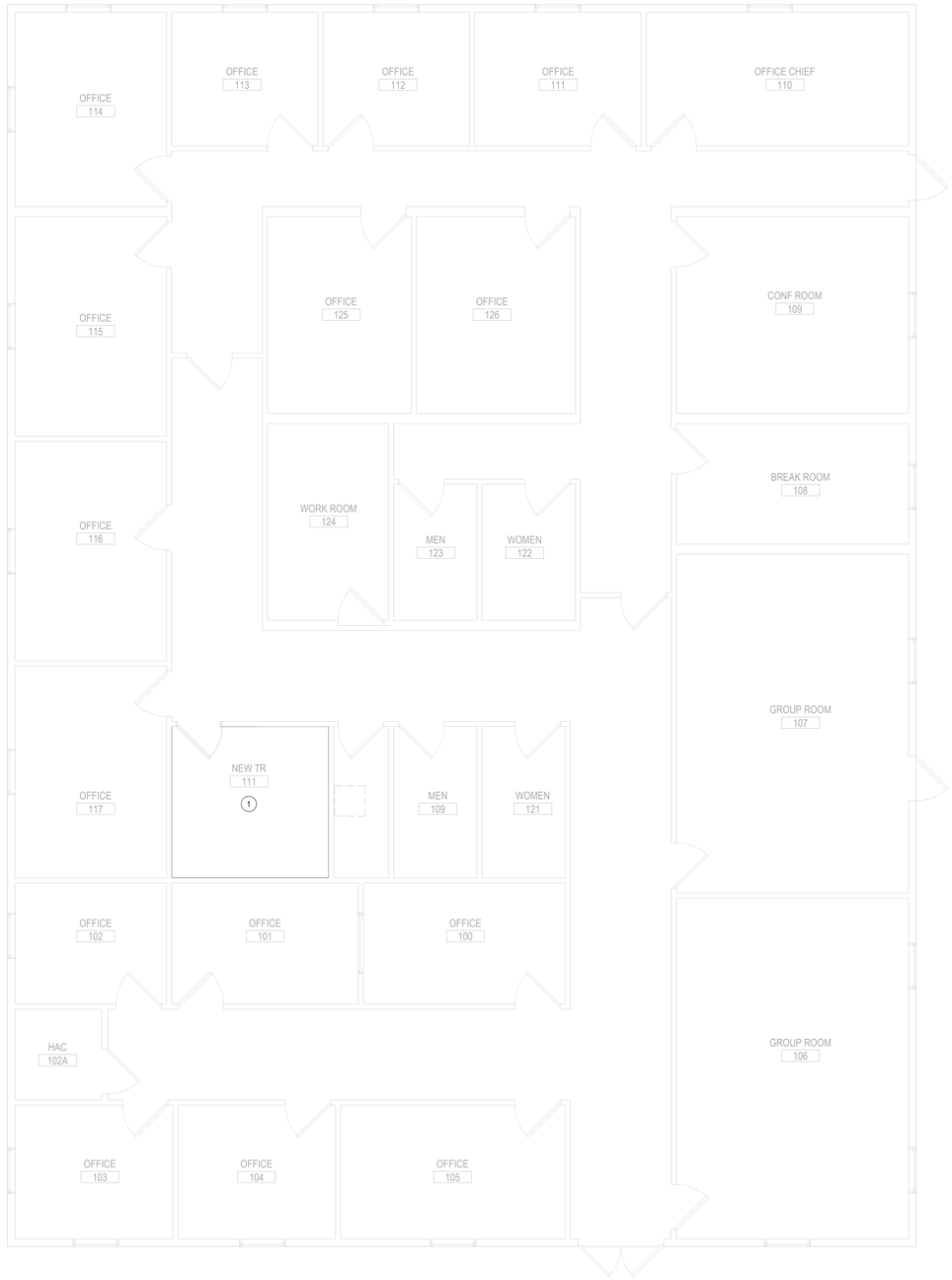
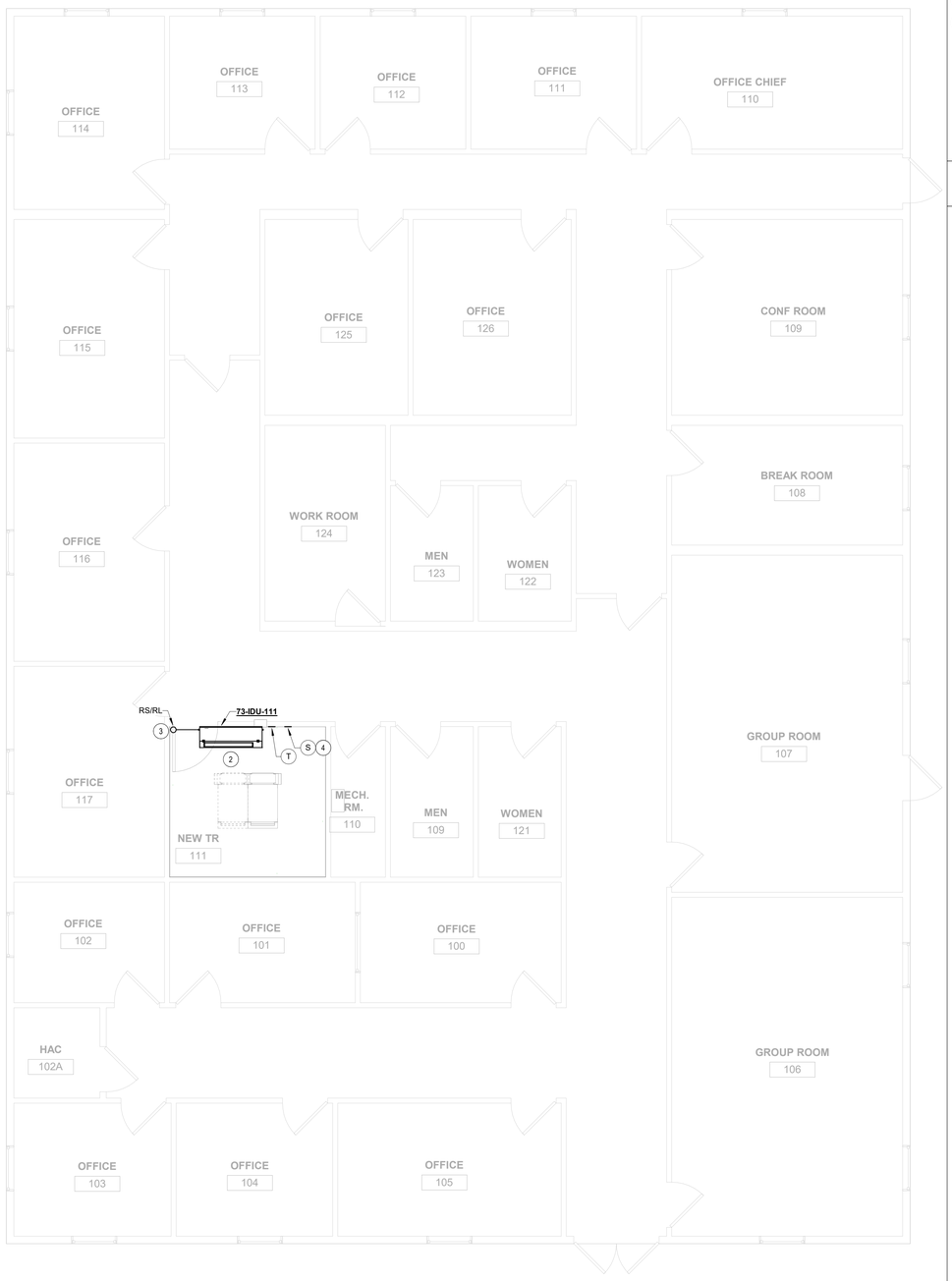


1 MECHANICAL 1ST FLOOR DEMOLITION
1/4" = 1'-0"



2 MECHANICAL 1ST FLOOR PLAN
1/4" = 1'-0"

SHEET NOTES:

1. REMOVE ANY EXISTING SUPPLY AND RETURN DUCTWORK BACK TO MAIN IN ADJOINING CORRIDOR. CAP AND SEAL PER SMACNA STANDARDS. REMOVE EXISTING DIFFUSERS AND GRILLES. REMOVE ANY EXISTING TRANSFER DUCTWORK. PATCH ALL OPENINGS LEFT IN WALL FROM DUCT REMOVAL. COORDINATE WITH ARCHITECTURAL DRAWINGS FOR WALL RATINGS. MAINTAIN WALL RATING IF RATED.
2. MOUNT UNIT ON WALL ABOVE DOOR. SEE DETAIL 7/00-M501. MAINTAIN MANUFACTURER'S MINIMUM CLEARANCES.
3. REFRIGERANT LINE SET UP TO CORRESPONDING ODU ON ROOF.
4. LOCATE TEMPTRAK TEMPERATURE/HUMIDITY SENSOR ON WALL WITHIN 6 FT OF TELECOM RACK. TEMPTRAK SENSOR SHALL INTEGRATE WITH VA'S CENTRAL MONITORING SYSTEM TO ALERT WHEN ENVIRONMENTAL CONDITION REQUIREMENTS ARE NOT MET. SEE DESIGN CONDITIONS TABLE ON SHEET 00-M001.

GENERAL NOTES:

1. FIRE/SMOKE WALL RECORD DRAWINGS WERE NOT PROVIDED BY THE STATION. FIELD VERIFY EXISTING PARTITION WALLS TO IDENTIFY FIRE/SMOKE RATING AND PROVIDE ALL REQUIRED MEASURES AND APPROPRIATE EQUIPMENT IN ACCORDANCE WITH THE VERIFIED PARTITION TYPE.
2. SIZE REFRIGERANT LINES PER MANUFACTURER'S RECOMMENDATIONS.
3. PROVIDE FIRE-STOPPING WHERE PIPING PENETRATES FIRE-RATED WALLS.
4. IT RACKS SHOWN FOR REFERENCE ONLTY. DASHED LINES INDICATE PLACEHOLDER FOR FUTURE RACK, NOT IN CONTRACT. SEE TELECOM DRAWINGS FOR MORE INFORMATION.

PLAN NORTH N

1/4" = 1'-0" 2 0 2 4 6 8 10 SCALE FEET

FINAL BID DOCUMENTS

Revisions:	Date:

ARCHITECT/ENGINEER OF RECORD

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12/18/2025

Facilities Management Services

VA U.S. Department of Veterans Affairs

Drawing Title: MECHANICAL 1ST FLOOR PLAN	Phase: FINAL BID DOCUMENTS	Project Title: EHRM INFRASTRUCTURE UPGRADES	Project Number: 637-22-700
Approved: FOR OFFICIAL USE ONLY			Building Number: BLDG 73
		Location: 1100 TUNNEL ROAD ASHEVILLE, NC 28805	Drawing Number: 73-MP101
		Issue Date: 12.19.2025 / Checked: / Drawn:	SHEET 548 of 559

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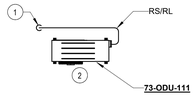

1 MECHANICAL ROOF PLAN
1/4" = 1'-0"

SHEET NOTES:

1. REFRIGERANT LINE SET DOWN TO CORRESPONDING IDU. USE PIPING PORTAL. SEE DETAIL 8/00-M501.
2. MOUNT CONDENSING UNIT ON ROOF CURB OR ROOF RAILS. SEE DETAIL 5/00-M501. LOCATE CONDENSING UNITS AS NEAR AS PRACTICAL TO REFRIGERANT PIPE PORTALS. MAINTAIN MANUFACTURER'S MINIMUM RECOMMENDED CLEARANCES BETWEEN CONDENSING UNITS AND BETWEEN OTHER OBSTRUCTIONS. CONDENSING UNITS SHALL NOT ADVERSELY AFFECT THE PERFORMANCE OR SERVICABILITY OF EXISTING NEARBY EQUIPMENT.

GENERAL NOTES:

1. FIRE/SMOKE WALL RECORD DRAWINGS WERE NOT PROVIDED BY THE STATION. FIELD VERIFY EXISTING PARTITION WALLS TO IDENTIFY FIRE/SMOKE RATING AND PROVIDE ALL REQUIRED MEASURES AND APPROPRIATE EQUIPMENT IN ACCORDANCE WITH THE VERIFIED PARTITION TYPE.
2. SIZE REFRIGERANT LINES PER MANUFACTURER'S RECOMMENDATIONS.

PLAN NORTH N

1/4" = 1'-0" 2 0 2 4 6 8 10 SCALE FEET

FINAL BID DOCUMENTS

Revisions:	Date:

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12/18/2025

Facilities Management Services

VA U.S. Department of Veterans Affairs

Drawing Title: MECHANICAL ROOF PLAN

Approved:

FOR OFFICIAL USE ONLY

Phase: FINAL BID DOCUMENTS

Project Title: EHRM INFRASTRUCTURE UPGRADES

Location: 1100 TUNNEL ROAD ASHEVILLE, NC 28805

Issue Date: 12.19.2025

Checked

Drawn

Project Number: 637-22-700

Building Number: BLDG 73

Drawing Number: 73-MP102

SHEET 549 of 559

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MINI-SPLIT INDOOR UNIT SCHEDULE

MARK	CORRESPONDING ODU	LOCATION	MAX CFM	COOLING			ELECTRICAL					BASIS OF DESIGN			REMARKS
				EDB	EWB	LDB	VOLTAGE	PHASE	FREQUENCY	FLA	MCA	MAKE	MODEL	WEIGHT	
73-IDU-111	73-ODU-111	BLDG 73 111	1000 CFM	80 °F	63 °F	56 °F	208 V	1	60 Hz	3.00 A	4 A	VERTIV	WLM070A	120 lb	1-5

NOTES:

1. PROVIDE WITH BLUE DIAMOND MAXIBLUE (X87-721) OR EQUAL CONDENSATE PUMP. COORDINATE WITH ELECTRICAL CONTRACTOR FOR POWER. PROVIDE DRIP PAN WITH MOISTURE SENSOR TO GENERATE AN ALARM TO THE BAS IN THE EVENT OF PRIMARY DRAIN OVERFLOW.
2. PROVIDE WITH MANUFACTURER'S THERMOSTAT. UNIT TO RUN ON INTERNAL CONTROL LOGIC.
3. INDOOR UNIT POWERED BY OUTDOOR UNIT. ROUTE CONTROL AND POWER WIRING WITH REFRIGERANT LINESET.
4. PROVIDE ONE (1) TEMPTRAK TEMPERATURE/HUMIDITY SENSOR PER TELECOM ROOM TO INTEGRATE WITH VA'S CENTRAL MONITORING SYSTEM TO ALERT WHEN ENVIRONMENTAL CONDITION REQUIREMENTS ARE NOT MET. SEE DESIGN CONDITIONS TABLE ON SHEET 00-M001.
5. ECM FAN.

MINI-SPLIT OUTDOOR UNIT SCHEDULE

MARK	CORRESPONDING IDU	LOCATION	REFRIGERANT	COOLING				ELECTRICAL					BASIS OF DESIGN			REMARKS
				NOMINAL CAPACITY	TOTAL COOLING	SENSIBLE COOLING	NSCOP	VOLTAGE	PHASE	FREQUENCY	FLA	MCA	MAKE	MODEL	WEIGHT	
73-ODU-111	73-IDU-111	BLDG 73 ROOF	R32	3.5 kW	25,468 Btu/h	25,468 Btu/h	4.08	208 V	1	60 Hz	26.00 A	32 A	VERTIV	CUD070	118 lb	1-7

NOTES:

1. PROVIDE WITH MANUFACTURER'S WIND BAFFLES.
2. PROVIDE WITH MANUFACTURER'S ROOF CURB.
3. INDOOR UNIT POWERED BY OUTDOOR UNIT. ROUTE CONTROL AND POWER WIRING WITH REFRIGERANT LINESET.
4. PROVIDE WITH MANUFACTURER'S LOW AMBIENT KIT.
5. VARIABLE SPEED COMPRESSOR.
6. REFRIGERANT LINE LENGTH UP TO 197 FT.
7. EC FAN.

FINAL BID DOCUMENTS

Revisions:	Date:

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12/18/2025

Facilities Management Services

VA U.S. Department of Veterans Affairs

Drawing Title: MECHANICAL SCHEDULES

Approved:

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Phase: FINAL BID DOCUMENTS

Project Title: EHRM INFRASTRUCTURE UPGRADES

Location: 1100 TUNNEL ROAD ASHEVILLE, NC 28805

Issue Date: 12.19.2025

Checked:

Drawn:

Project Number: 637-22-700

Building Number: BLDG 73

Drawing Number: 73-MG601

SHEET 550 of 559

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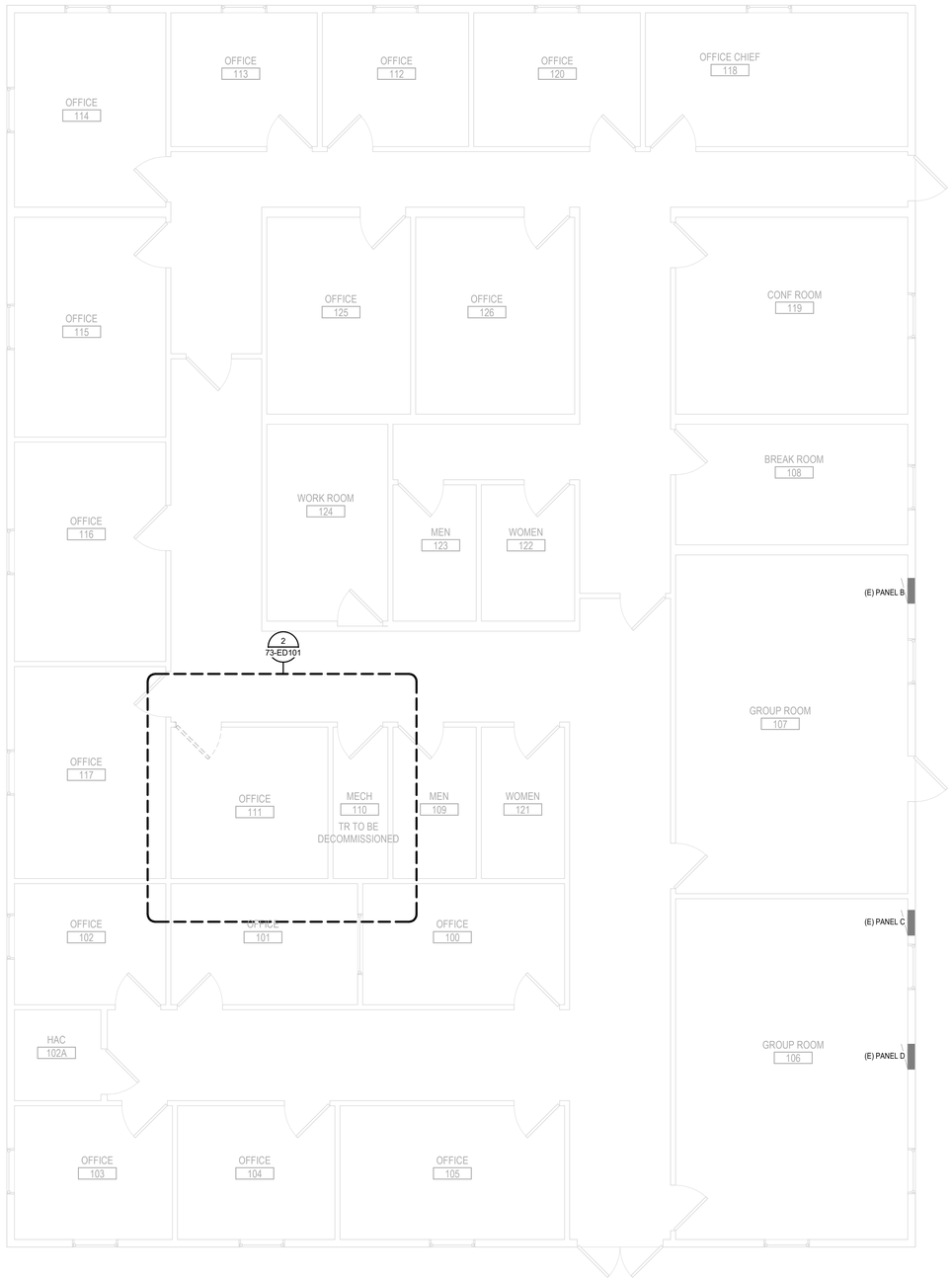
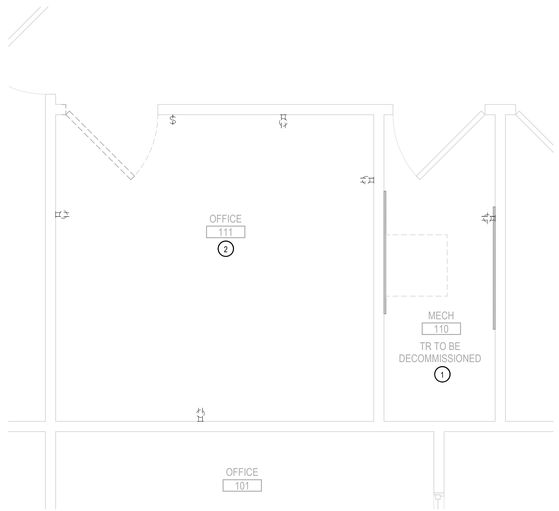


1 ELECTRICAL 1ST FLOOR DEMOLITION
1/4" = 1'-0"



2 ENLARGED ELECTRICAL 1ST FLOOR DEMOLITION PLAN
1/2" = 1'-0"

SHEET NOTES:

1. EXISTING TR TO BE DECOMISSIONED. REMOVE ALL ELECTRICAL INFRASTRUCTURE FROM EXISTING TR ASSOCIATED WITH TELECOMMUNICATIONS RACK(S) BEING REMOVED, INCLUDING BUT NOT LIMITED TO: RECEPTACLES DEDICATED TO TELECOM EQUIPMENT, HARDWIRE CONNECTIONS TO EQUIPMENT, GROUNDING SYSTEMS, AND UPS & PDU SYSTEMS. REMOVE CIRCUIT WIRING BACK TO SOURCE, OR NEAREST DEVICE OUTSIDE THE DEMO AREA ON THE SAME CIRCUIT. EXISTING LIGHTING, CONTROLS, AND GENERAL USE OUTLETS SHALL REMAIN.
2. EXISTING OFFICE TO BECOME NEW TR. ALL EXISTING LIGHTING AND CONTROLS SHALL BE DEMOLISHED IN THIS SPACE. RETAIN EXISTING LIGHTING CIRCUIT FEEDING THE ROOM. ALL EXISTING RECEPTACLES SHALL BE REMOVED OR RELOCATED, BASED ON THE NEW ROOM LAYOUT. REFER TO SHEET 73-EP101. EXISTING RECEPTACLE CIRCUIT WIRING AND CONDUIT SHALL BE REMOVED BACK TO THEIR SOURCE, OR NEAREST DEVICE OUTSIDE THE DEMO AREA ON THE SAME CIRCUIT.

GENERAL NOTES:

1. REFER TO 00-E001 FOR GENERAL NOTES, DEMOLITION NOTES, AND LEGENDS.
2. DEMOLITION PLANS ARE CONCEPTUAL, NOT ALL DEVICES TO BE DEMOLISHED ARE SHOWN.
3. ELECTRICAL PANEL LOCATIONS SHOWN FOR REFERENCE ONLY. ALL PANELS OUTSIDE OF THE TR ARE EXISTING TO REMAIN.
4. COORDINATE WITH TELECOM AND VA COR FOR SEQUENCE OF DEMOLITION PRIOR TO REMOVING EXISTING ELECTRICAL INFRASTRUCTURE FROM TELECOMMUNICATIONS SPACES THAT ARE BEING DECOMMISSIONED.

1/2" = 1'-0" SCALE 1 0 1 2 3 4 5 FEET

1/4" = 1'-0" SCALE 2 0 2 4 6 8 10 FEET

PLAN NORTH N

Revisions:	Date:

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12/18/2025

Facilities Management Services

VA U.S. Department of Veterans Affairs

Drawing Title: ELECTRICAL 1ST FLOOR DEMOLITION

Phase: FINAL BID DOCUMENTS

Project Title: EHRM INFRASTRUCTURE UPGRADES

Project Number: 637-22-700

Building Number: BLDG 73

Approved:

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Location: 1100 TUNNEL ROAD ASHEVILLE, NC 28805

Issue Date: 12.19.2025

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Drawn

Drawing Number: 73-ED101

SHEET 551 of 559

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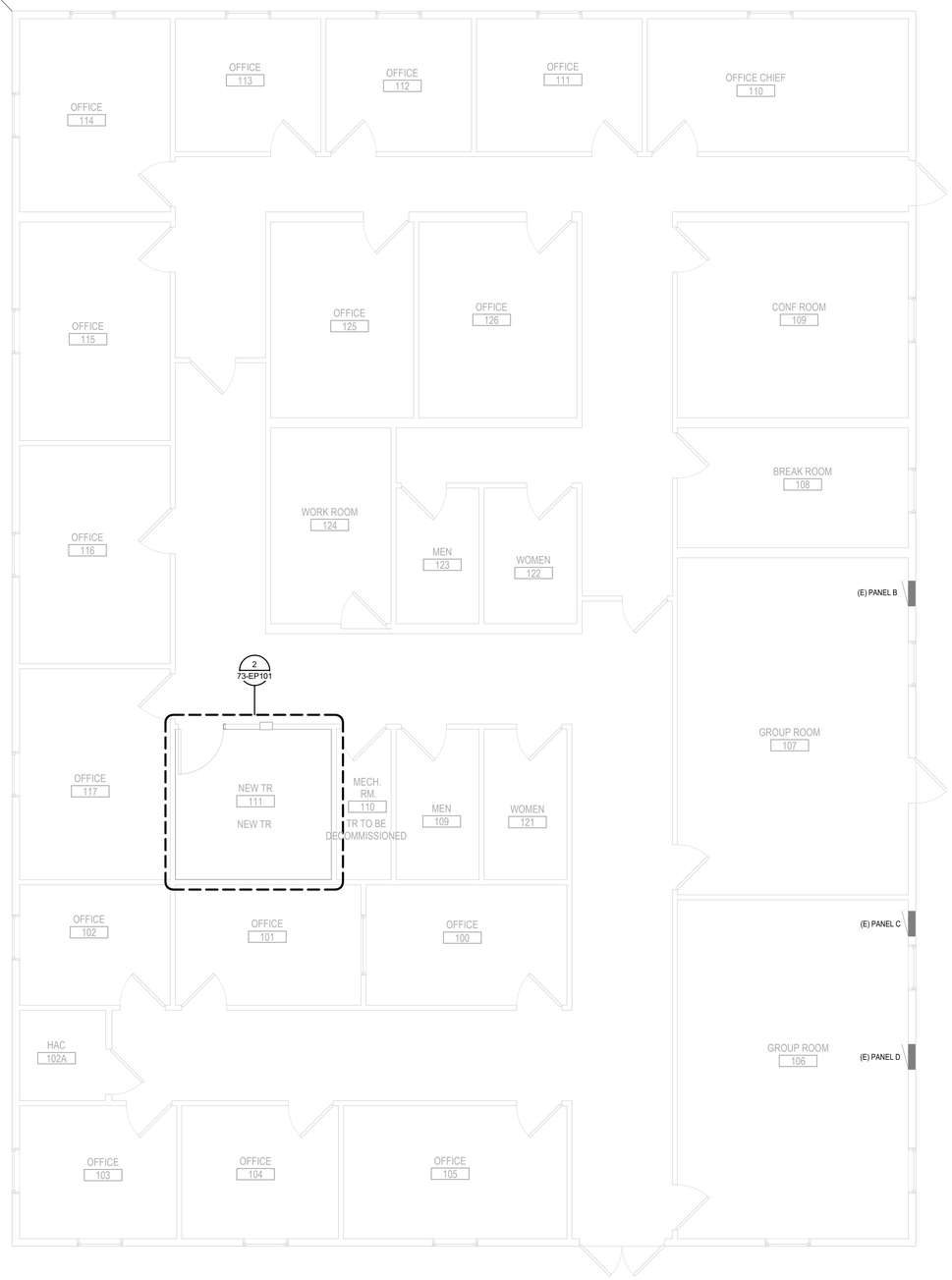
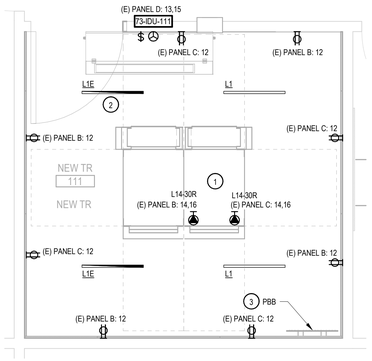


1 ELECTRICAL 1ST FLOOR PLAN
1/4" = 1'-0"



2 ELECTRICAL 1ST FLOOR ENLARGED PLAN
1/2" = 1'-0"

SHEET NOTES:

1. PROVIDE TWO (2) NEMA L14-30R TWIST LOCKING RECEPTACLES FOR RACK POWER. MOUNT TO CABLE TRAY ABOVE RACK IN AN ACCESSIBLE LOCATION. COORDINATE FINAL INSTALLATION WITH TELECOM EQUIPMENT. REFER TO TELECOM PLANS.
2. CIRCUIT NEW LIGHT FIXTURES AND CONTROLS TO EXISTING LIGHTING CIRCUIT SERVING THE ROOM.
3. BOND RACK BONDING BUSBAR (RBB) TO THE PBB. CONTRACTOR SHALL LOCATE THE BUILDING MAIN GROUND BAR AND BOND THE PBB BACK TO IT. REFER TO GROUNDING AND BONDING DETAIL(S) ON SHEET 73-TN601 FOR FURTHER DETAILS.

GENERAL NOTES:

1. FIRE/SMOKE WALL RECORD DRAWINGS WERE NOT PROVIDED BY THE STATION. FIELD-VERIFY EXISTING PARTITION WALLS TO IDENTIFY FIRE/SMOKE RATING AND PROVIDE ALL REQUIRED MEASURES AND APPROPRIATE EQUIPMENT IN ACCORDANCE WITH THE VERIFIED PARTITION TYPE.
2. REFER TO 00-E001 FOR GENERAL NOTES, LUMINAIRE SCHEDULE, AND POWER EQUIPMENT SCHEDULE. PROVIDE UPS AND PDU EQUIPMENT IN EACH RACK AS SPECIFIED.
3. REFER TO 73-EP601 FOR BUILDING ONE-LINE, EQUIPMENT SCHEDULE, AND PANEL SCHEDULES.
4. REFER TO TELECOM DRAWINGS FOR EQUIPMENT AND TELECOM RACK LAYOUTS.
5. REFER TO 00-E501, DETAILS 3 AND 4 FOR THE POWER EQUIPMENT ELEVATION FOR A ONE-RACK TELECOM ROOM. UNIQUE TO BUILDINGS 70 AND 73. THESE BUILDINGS ARE ONLY SUPPLIED WITH 120/240V SINGLE PHASE POWER. NO EXISTING THREE-PHASE ELECTRICAL SYSTEM EXISTS AT THESE BUILDINGS. CONTRACTOR SHALL ENSURE EQUIPMENT USED IN THE TR'S FOR THESE BUILDINGS MEETS THE UNIQUE EXISTING POWER SYSTEM CONSTRAINTS PRIOR TO INSTALLATION. INSTALL, CONNECT, AND ENERGIZE RACK POWER EQUIPMENT AS SPECIFIED IN THE DETAILS.
6. COORDINATE LIGHTING LAYOUT WITH FINAL EQUIPMENT LAYOUT AND OTHER TRADES. ENSURE FIXTURES ARE MOUNTED BELOW CABLE TRAY AND OTHER SYSTEMS.
7. PROVIDE UNSWITCHED PHASE CONDUCTOR FROM CIRCUIT SERVING LOCAL SWITCH GROUP TO ALL "L1E" FIXTURE TYPES.

1/2" = 1'-0" SCALE 1 0 1 2 3 4 5 FEET

1/4" = 1'-0" SCALE 2 0 2 4 6 8 10 FEET

PLAN NORTH N

Revisions:	Date:

ARCHITECT/ENGINEER OF RECORD

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12/18/2025

Facilities Management Services

VA U.S. Department of Veterans Affairs

Drawing Title: ELECTRICAL 1ST FLOOR PLAN

Phase: FINAL BID DOCUMENTS

Project Title: EHRM INFRASTRUCTURE UPGRADES

Project Number: 637-22-700

Building Number: BLDG 73

Approved:

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Location: 1100 TUNNEL ROAD ASHEVILLE, NC 28805

Issue Date: 12.19.2025

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Drawn

Drawing Number: 73-EP101

SHEET 552 of 559

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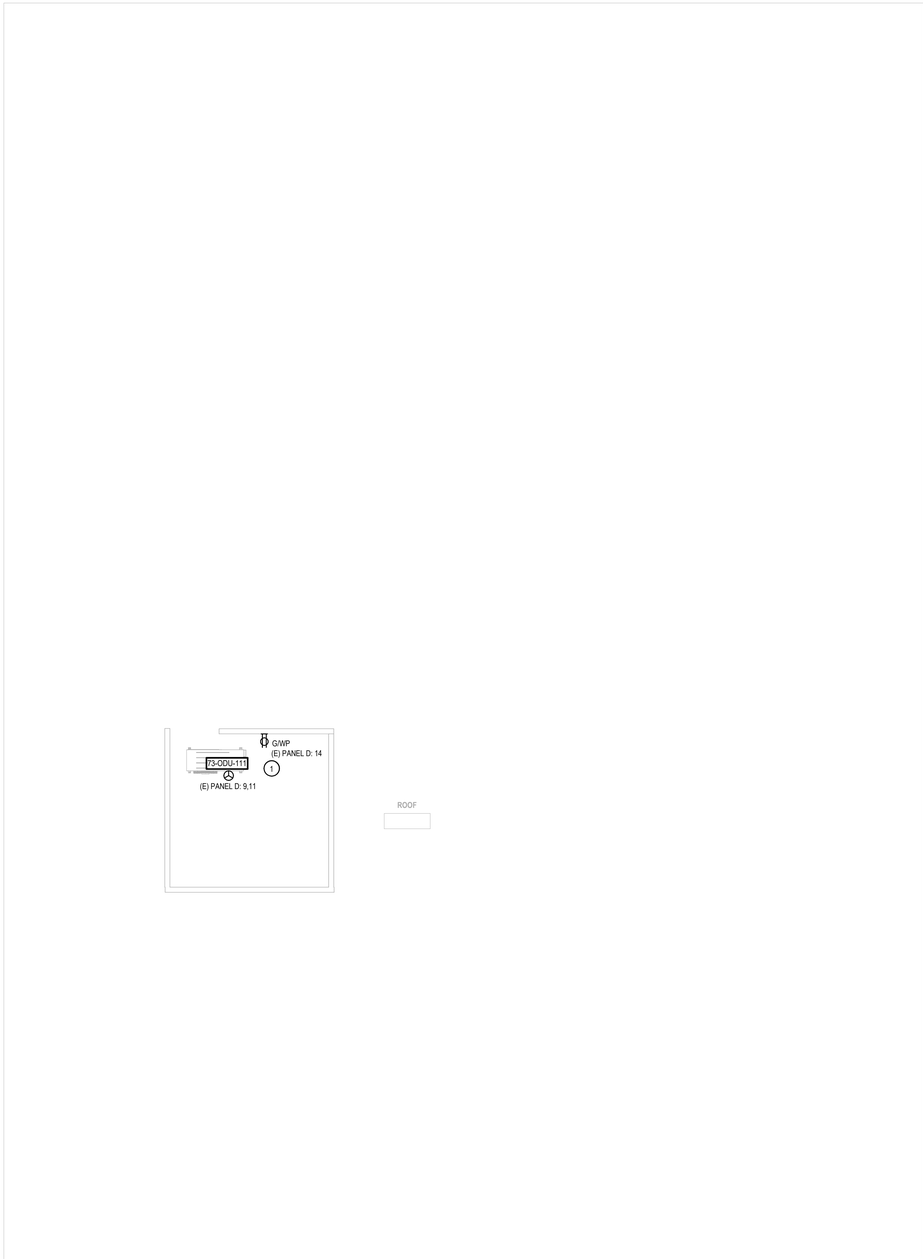

1 ELECTRICAL ROOF PLAN
1/4" = 1'-0"

SHEET NOTES:

1. IF NO EXTERIOR RECEPTACLE EXISTS WITHIN 25 FT OF NEW ROOFTOP MECHANICAL EQUIPMENT, CONTRACTOR SHALL PROVIDE NEW GFCI, WEATHERPROOF RECEPTACLE CIRCUITED AS SHOWN. RECEPTACLE SHALL BE MOUNTED TO NEAREST WALL SURFACE, OR PROVIDE RECEPTACLE MOUNTING FRAME PER DETAIL 3, SHEET 00-E503.

GENERAL NOTES:

1. FIRE/SMOKE WALL RECORD DRAWINGS WERE NOT PROVIDED BY THE STATION. FIELD-VERIFY EXISTING PARTITION WALLS TO IDENTIFY FIRE/SMOKE RATING AND PROVIDE ALL REQUIRED MEASURES AND APPROPRIATE EQUIPMENT IN ACCORDANCE WITH THE VERIFIED PARTITION TYPE.
2. REFER TO 00-E001 FOR GENERAL NOTES AND LEGENDS.
3. REFER TO 73-EP601 FOR BUILDING ONE-LINE, EQUIPMENT SCHEDULE, AND PANEL SCHEDULES.

PLAN NORTH N

1/4" = 1'-0" 2 0 2 4 6 8 10 SCALE FEET

Revisions:	Date:

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Facilities Management Services

VA U.S. Department of Veterans Affairs

Drawing Title: ELECTRICAL ROOF PLAN

Phase: FINAL BID DOCUMENTS

Project Title: EHRM INFRASTRUCTURE UPGRADES

Project Number: 637-22-700

Building Number: BLDG 73

Approved:

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Location: 1100 TUNNEL ROAD ASHEVILLE, NC 28805

Issue Date: 12.19.2025

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Drawn:

Drawing Number: 73-EP102

SHEET 553 of 559

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Branch Panel: (E) PANEL B

Location: GROUP ROOM 107
Supply From:
Mounting: RECESSED
Enclosure: NEMA 1

Volts: 120/240 Single
Phases: 1
Wires: 3

A.I.C. Rating: 10000
Mains Type: MCB
Mains Rating: 150 A
MCB Rating: 150 A

CKT	Circuit Description	Trip	Poles	Notes	A		B		Notes	Poles	Trip	Circuit Description	CKT
1	(E) A/C #4, HEAT STRIPS	60 A	2		0	0				1	20 A	(E) RECEPTACLES	2
3	--	--	--	--			0	0		1	20 A	(E) RECEPTACLES	4
5	(E) LIGHTS	20 A	1		0	0				1	20 A	(E) RECEPTACLES	6
7	(E) RANGE	50 A	2				0	0		1	20 A	(E) RECEPTACLES	8
9	--	--	--	--	0	0				1	20 A	(E) RECEPTACLES	10
11	(E) #4 HEAT PUMP	40 A	2				0	720	1	1	20 A	REC, NEW TR 111	12
13	--	--	--	--	0	2500			1, 2	2	30 A	L14-30R LEG A, NEW TR 111	14
15	SPACE	--	1				--	2500	--	--	--	--	16
				Total Load:	2500 VA		3220 VA						
				Total Amps:	21 A		27 A						

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
REC,	720 VA	100.00%	720 VA		
Telecommunications Equipment	5000 VA	100.00%	5000 VA	**Total Conn. Load:**	5720 VA
				Total Est. Demand:	5720 VA
				Total Conn. Current:	24 A
				Total Est. Demand Current:	24 A

Notes:
1. PROVIDE NEW BREAKER, WHICH SHALL MATCH THE EXISTING PANEL MANUFACTURER AND AIC RATING, AND MAINTAIN EXISTING PANEL UL RATING.
2. PROVIDE NEUTRAL CONDUCTOR WITH CIRCUIT TO MATCH NEMA L14 WIRING CONFIGURATION. NEUTRAL CONDUCTOR SHALL BE UPSIZED ONE GAUGE, TO #8 AWG.

Branch Panel: (E) PANEL C

Location: GROUP ROOM 106
Supply From:
Mounting: RECESSED
Enclosure: NEMA 1

Volts: 120/240 Single
Phases: 1
Wires: 3

A.I.C. Rating: 10000
Mains Type: MCB
Mains Rating: 150 A
MCB Rating: 150 A

CKT	Circuit Description	Trip	Poles	Notes	A		B		Notes	Poles	Trip	Circuit Description	CKT
1	(E) HEAT STRIPS	60 A	2		0	0				1	20 A	(E) RECEPTACLES	2
3	--	--	--	--			0	0		1	20 A	(E) RECEPTACLES	4
5	(E) LIGHTS	20 A	1		0	0				1	20 A	(E) RECEPTACLES	6
7	(E) W/H	20 A	2				0	0		2	30 A	(E) DRYER	8
9	--	--	--	--	0	0			--	--	--	--	10
11	(E) HEAT PUMP #2	40 A	2				0	720	1	1	20 A	REC, NEW TR 111	12
13	--	--	--	--	0	2500			1, 2	2	30 A	L14-30R LEG B, NEW TR 111	14
15	SPACE	--	1				--	2500	--	--	--	--	16
				Total Load:	2500 VA		3220 VA						
				Total Amps:	21 A		27 A						

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
REC,	720 VA	100.00%	720 VA		
Telecommunications Equipment	5000 VA	100.00%	5000 VA	**Total Conn. Load:**	5720 VA
				Total Est. Demand:	5720 VA
				Total Conn. Current:	24 A
				Total Est. Demand Current:	24 A

Notes:
1. PROVIDE NEW BREAKER, WHICH SHALL MATCH THE EXISTING PANEL MANUFACTURER AND AIC RATING, AND MAINTAIN EXISTING PANEL UL RATING.
2. PROVIDE NEUTRAL CONDUCTOR WITH CIRCUIT TO MATCH NEMA L14 WIRING CONFIGURATION. NEUTRAL CONDUCTOR SHALL BE UPSIZED ONE GAUGE, TO #8 AWG.

Branch Panel: (E) PANEL D

Location: GROUP ROOM 106
Supply From:
Mounting: RECESSED
Enclosure: NEMA 1

Volts: 120/240 Single
Phases: 1
Wires: 3

A.I.C. Rating: 10000
Mains Type: MCB
Mains Rating: 125 A
MCB Rating: 125 A

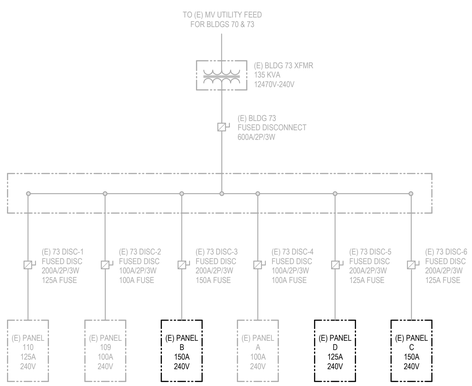
CKT	Circuit Description	Trip	Poles	Notes	A		B		Notes	Poles	Trip	Circuit Description	CKT
1	(E) #1 HEAT STRIPS	60 A	2		0	0				1	20 A	(E) RECEPTACLES	2
3	--	--	--	--			0	0		1	20 A	(E) RECEPTACLES	4
5	(E) LIGHTS	20 A	1		0	0				1	20 A	(E) RECEPTACLES	6
7	(E) LIGHTS	20 A	1				0	0		2	40 A	HEAT PUMP	8
9	73-ODU-111	50 A	2	1	2760	0			--	--	--	--	10
11	--	--	--	--			2760	--		1	--	SPACE	12
13	73-IDU-111	15 A	2	1	360	180			1	1	20 A	REC, ROOF EQUIPMENT	14
15	--	--	--	--			360	--		1	--	SPACE	16
				Total Load:	3300 VA		3120 VA						
				Total Amps:	28 A		26 A						

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
HVAC	6240 VA	100.00%	6240 VA		
REC,	180 VA	100.00%	180 VA	**Total Conn. Load:**	6420 VA
				Total Est. Demand:	6420 VA
				Total Conn. Current:	27 A
				Total Est. Demand Current:	27 A

Notes:
1. PROVIDE NEW BREAKER, WHICH SHALL MATCH THE EXISTING PANEL MANUFACTURER AND AIC RATING, AND MAINTAIN EXISTING PANEL UL RATING.
2. PROVIDE NEUTRAL CONDUCTOR WITH CIRCUIT TO MATCH NEMA L14 WIRING CONFIGURATION. NEUTRAL CONDUCTOR SHALL BE UPSIZED ONE GAUGE, TO #8 AWG.

MECHANICAL EQUIPMENT SCHEDULE

UNIT ID	EQUIPMENT DESCRIPTION	LOCATION	VOLTS	PHASE SIZE	HP	LOAD (KVA)	FLA	MCA	MOCP	CONDUIT & WIRE	CONNECTION TYPE	DISCONNECT DESCRIPTION	DISC NEMA RATING	DISC BY	STARTER DESCRIPTION	STARTER PROVIDED BY	SCCR	CIRCUIT ID	NOTES
73-IDU-111	SPLIT SYSTEM INDOOR UNIT		240 V	2P 2W	-	0.72 kVA	3.0 A	4 A	15 A	2#12 CU, 1#12 G IN 3/4" CONDUIT	HARDWIRED	MOTOR RATED TOGGLE SWITCH	NEMA 1	DIV 26	-	-	5000	(E) PANEL D-13,15	PROVIDE RECEPTACLE FOR CONDENSATE PUMP.
73-ODU-111	DUCTLESS SPLIT SYSTEM (2 TON)	ROOF	240 V	2P 2W	-	5.52 kVA	23.0 A	28 A	50 A	2#6 CU, 1#10 G IN 3/4" CONDUIT	HARDWIRED	60A/2P/NF	NEMA 3R	DIV 26	-	-	5000	(E) PANEL D-9,11	



1 BUILDING 73 PARTIAL ONE-LINE DIAGRAM
N.T.S.

SHEET NOTES:

GENERAL NOTES:

1. REFER TO 00-E001 FOR GENERAL NOTES AND LEGENDS.
2. ALL PANELS ARE EXISTING TO REMAIN. PANELS SHOWN IN BOLD INDICATE SCOPE IN THOSE PANELS.
3. ADDITIONAL LOAD TO BE ADDED TO PANELS AS SHOWN. EXISTING LOAD INFORMATION FOR PANELS WAS UNAVAILABLE AT THE TIME OF DESIGN. "PANEL TOTALS" REPRESENT LOAD ADDED TO PANEL.
4. IF SPACE ALLOCATED FOR NEW LOADS IS NOT AVAILABLE DURING CONSTRUCTION, CONTACT THE DOR.
5. DEMAND LOAD CALCULATIONS WERE DONE USING EXISTING INFORMATION FROM PROVIDED AS-BUILTS, SITE OBSERVATIONS, AND PHOTOS. PANELS WITH NEW LOADS ADDED WERE SELECTED USING THE DEMAND LOAD ESTIMATES.
6. PANEL AIC RATINGS SHOWN WERE DONE USING EXISTING INFORMATION FROM PROVIDED AS-BUILTS, SITE OBSERVATIONS, AND PHOTOS. CONTRACTOR TO VERIFY AIC RATING BEFORE ADDING NEW BREAKERS.

Revisions: Date:

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Facilities Management Services
VA U.S. Department of Veterans Affairs

Drawing Title: ONE-LINE DIAGRAM AND SCHEDULES
Phase: FINAL BID DOCUMENTS
Project Title: EHRM INFRASTRUCTURE UPGRADES
Project Number: 637-22-700
Building Number: BLDG 73
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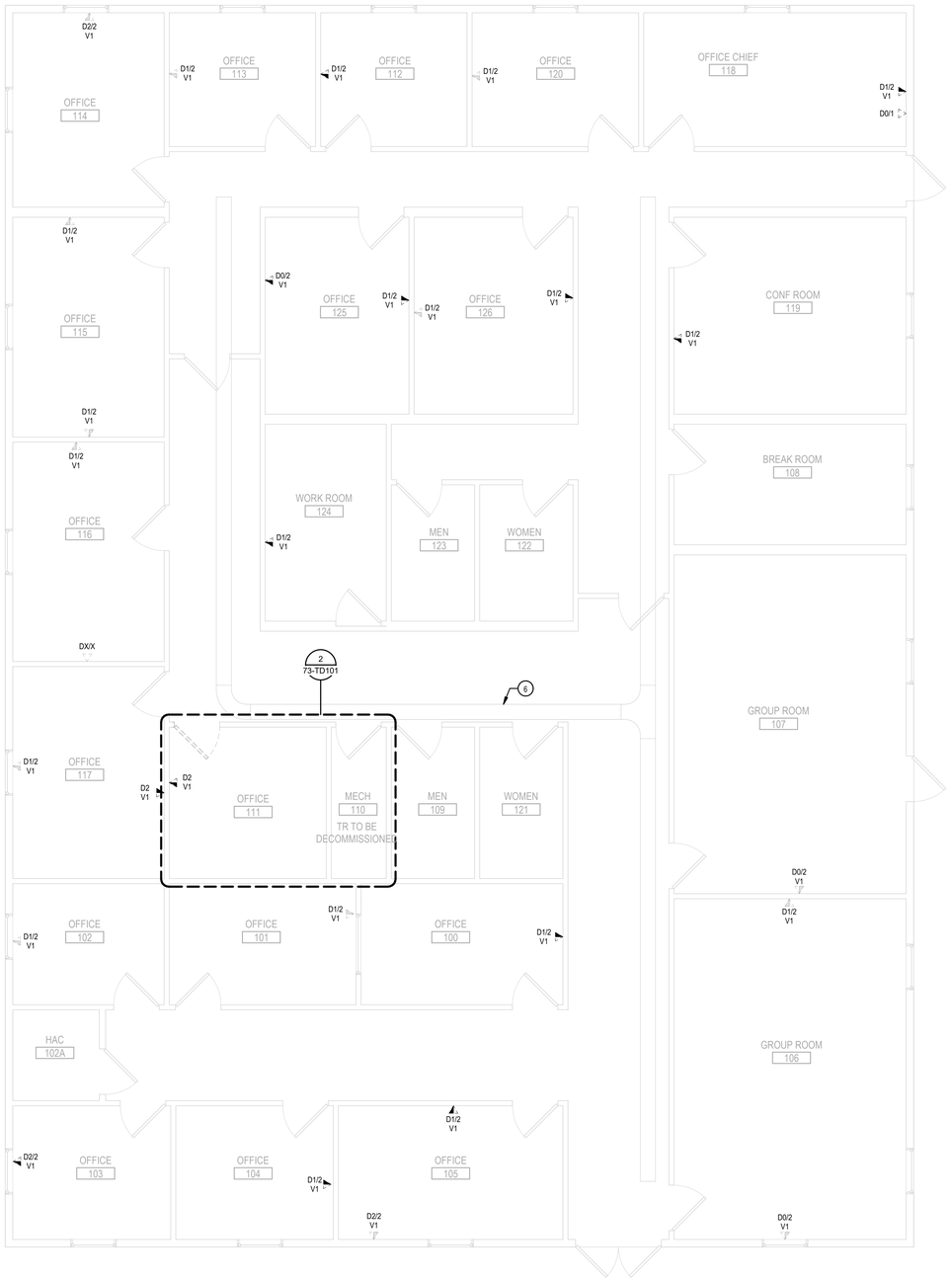
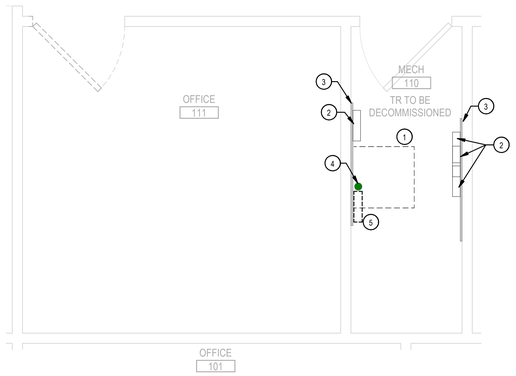


1 TELECOMMUNICATIONS 1ST FLOOR DEMOLITION
1/4" = 1'-0"



2 ENLARGED TELECOMMUNICATIONS 1ST FLOOR DEMOLITION PLAN
1/2" = 1'-0"

SHEET NOTES:

1. EXISTING WALL MOUNTED TELECOMMUNICATIONS EQUIPMENT RACK, INFRASTRUCTURE AND CABLING TO BE DEMOLISHED.
2. EXISTING WALL-MOUNTED RACK AND POTS EQUIPMENT TO REMAIN.
3. EXISTING PLYWOOD BACKBOARD TO REMAIN
4. EXISTING SERVICE ENTRANCE CONDUIT. CONDUIT TO REMAIN, OSP CABLING TO BE DEMOLISHED BACK TO SOURCE.
5. EXISTING WALL MOUNTED TELECOMMUNICATIONS EQUIPMENT TO BE DEMOLISHED.
6. EXISTING LADDER RACK TO REMAIN (TYP).

GENERAL NOTES:

1. REFER TO 00-T001 FOR GENERAL NOTES AND LEGENDS.
2. ALL EXISTING CABLES AND INFRASTRUCTURE NOT CAT6A RATED TO BE DEMOLISHED.
3. NOT ALL DEVICES ARE SHOWN. CONTRACTOR TO VERIFY ALL DATA OUTLET LOCATIONS IN THE FIELD.
4. THE QUANTITY OF TELECOM DROPS TO BE REMOVED, INSTALLED, AND MAINTAINED IS BASED ON THE INFORMATION KNOWN AT THE TIME OF DESIGN. PRIOR TO CONSTRUCTION, TELECOM DROP LOCATIONS SHALL BE SURVEYED. ANY DISCREPANCIES SHALL BE PROVIDED TO THE DOR IMMEDIATELY.
5. EXISTING ROUTING FOR TELECOM DROPS TO REMAIN SHALL BE MAINTAINED TO THE FULLEST EXTENT.
6. DEMOLITION DETAILS (IN NO PARTICULAR ORDER):
   - A. REFER TO ENLARGED PLANS FOR ADDITIONAL REQUIREMENTS.
   - B. CABLE CAT6 AND BELOW HORIZONTAL CABLE SHALL BE REMOVED FROM EXISTING PATCH PANELS BACK TO FINAL DATA JACK LOCATIONS. CABLE SHALL BE REMOVED BETWEEN EXISTING SWITCH AND PATCH PANEL.
   - C. PATCH PANELS CURRENTLY NOT DESIGNED FOR CAT6A CABLE SHALL BE REMOVED.
   - D. WALL PLATES AND RJ-45 JACKS FOR WALL OUTLET BOXES FOR CAT5E, 6 AND BELOW CABLE SHALL BE REMOVED.
   - E. DATA RACKS SHALL BE REMOVED.
   - F. HORIZONTAL AND VERTICAL CABLE MANAGEMENT FOR RACKS SHALL BE REMOVED IF APPLICABLE.
   - G. WALL MOUNTED FIBER BOXES SHALL BE REMOVED.
   - H. FIBER CABLE AND ENCLOSURES SHALL BE REMOVED BACK TO SOURCE AFTER ALL NEW FIBER CONNECTIONS IN THIS BUILDING HAVE BEEN CONNECTED. PRIOR TO DEMOLITION, COORDINATE WITH VA COR TO ENSURE ALL FIBER IS INACTIVE BEFORE DEMOLITION.
   - I. EXISTING CABLE TRAY TO REMAIN.
   - J. COPPER PHONE PUNCH DOWN BLOCKS SHALL REMAIN UNLESS OTHERWISE NOTED.
7. DEMOLISH ALL TELECOMMUNICATIONS CABLE THAT IS NOT TERMINATED AT BOTH ENDS AT A CONNECTOR OR OTHER EQUIPMENT AND NOT IDENTIFIED 'FOR FUTURE USE' WITH A TAG. ENSURE DEMOLITION OF ABANDONED CABLE WILL NOT DISRUPT VA OPERATIONS PRIOR TO REMOVAL. WHERE DISRUPTION OF SERVICE OCCURS DUE TO DEMOLISHED CABLE, NEW CABLE SHALL BE INSTALLED TO RESTORE THE SYSTEM AT THE CONTRACTOR'S EXPENSE.
8. PRIOR TO DEMOLITION, COORDINATE DISPOSAL WITH VA. ALL VA STANDARDS, EPA STANDARDS AND LOCAL STANDARDS MUST BE FOLLOWED WHEN DISPOSING OF ASBESTOS EXPOSED ITEMS.

1/2" = 1'-0" SCALE 1 0 1 2 3 4 5 FEET

1/4" = 1'-0" SCALE 2 0 2 4 6 8 10 FEET

PLAN NORTH N

Revisions:	Date:

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Facilities Management Services

VA U.S. Department of Veterans Affairs

Drawing Title: TELECOMMUNICATIONS 1ST FLOOR DEMOLITION

Approved:

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Phase: FINAL BID DOCUMENTS

Project Title: EHRM INFRASTRUCTURE UPGRADES

Location: 1100 TUNNEL ROAD ASHEVILLE, NC 28805

Issue Date: 12.19.2025

Checked:

Drawn:

Project Number: 637-22-700

Building Number: BLDG 73

Drawing Number: 73-TD101

SHEET 555 of 559

VA FORM 08 - 6231

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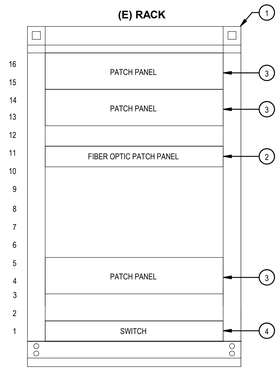

HORIZONTAL CABLES	141
PATCH CORD	72
TOTAL PORTS	(48 x 3) = 144

DETAIL NOTES:

1. WALL-MOUNTED RACK TO BE DEMOLISHED.
2. FIBER OPTIC PATCH PANEL TO BE DEMOLISHED.
3. COPPER PATCH PANEL TO BE DEMOLISHED.
4. SWITCH TO BE DECOMMISSIONED. COORDINATED EQUIPMENT TURN OVER WITH VA OIT.

1 (E) TELECOMMUNICATIONS RACK ELEVATION

N.T.S.

Revisions:	Date:

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Drawing Title: TELECOMMUNICATIONS DEMOLITION RACK ELEVATIONS

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Phase: FINAL BID DOCUMENTS

Project Title: EHRM INFRASTRUCTURE UPGRADES

Location: 1100 TUNNEL ROAD ASHEVILLE, NC 28805

Issue Date: 12.19.2025

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Project Number: 637-22-700

Building Number: BLDG 73

Drawing Number: 73-TD601

SHEET 556 of 559

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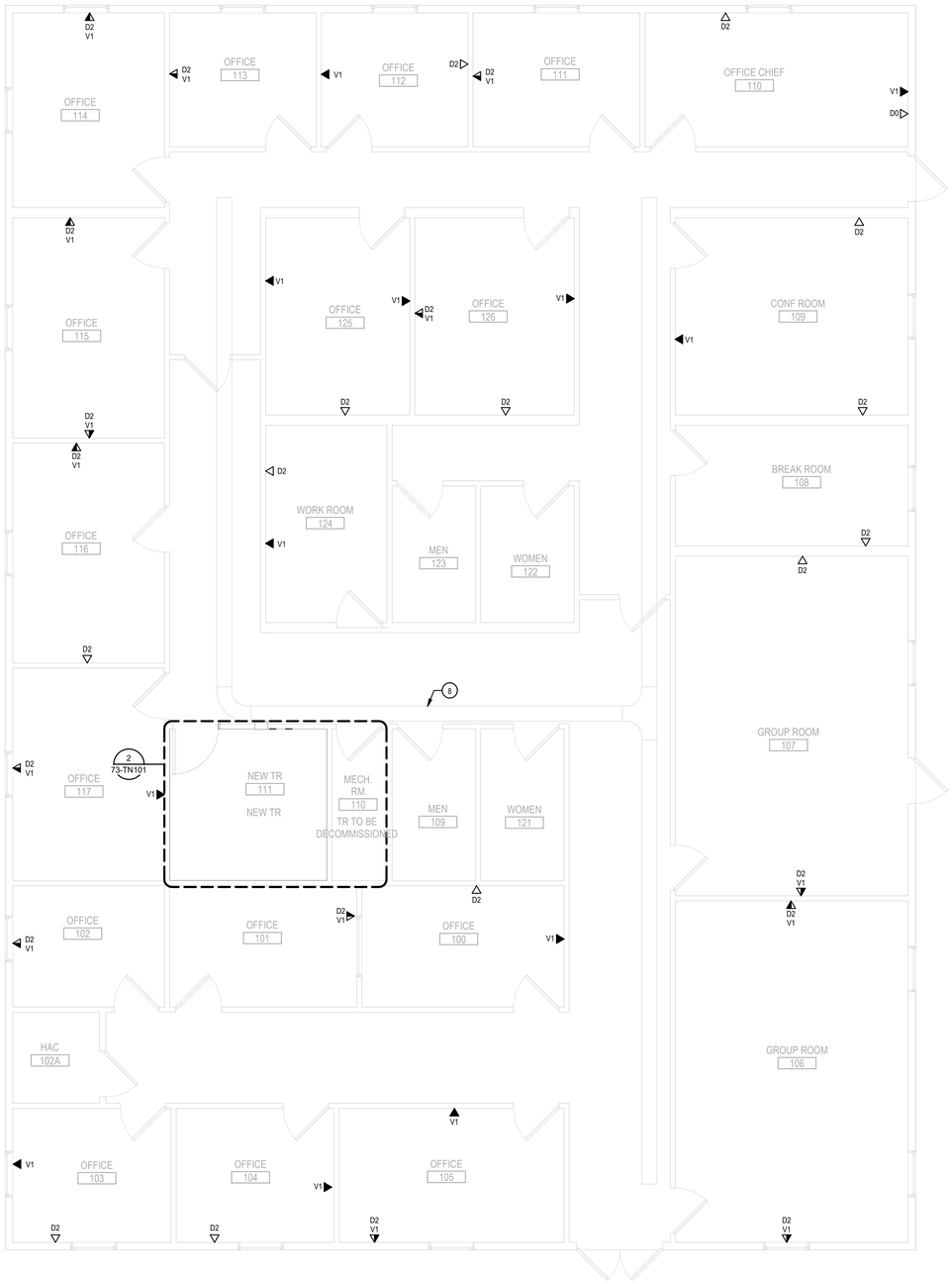
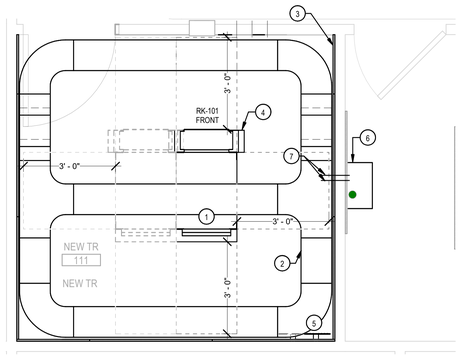


1 TELECOMMUNICATIONS 1ST FLOOR PLAN
1/4" = 1'-0"



2 TR 111 - ENLARGED TELECOMMUNICATIONS PLAN
1/2" = 1'-0"

SHEET NOTES:

1. PROVIDE 45U 4-POST CHANNEL RACK.
2. PROVIDE WIRE BASKET STYLE CABLE TRAY.
3. 4' BY 8' AC GRADE 3/4" TRADE SIZE PLYWOOD BACKBOARD PAINTED HIGH-GLOSS WHITE WITH TWO COATS OF FIRE RESISTANT PAINT ON A MINIMUM OF THREE WALLS. ENSURE INSTALLATION HAS NO GAPS.
4. PROVIDE 6" VERTICAL CABLE MANAGEMENT AT THE ENDS OF THE RACKS AND BETWEEN EACH RACK.
5. LOCATION OF PRIMARY BONDING BUS BAR (PBB) ON PLYWOOD BACKBOARD. EXISTING PBB MAY BE USED IF IT HAS SUFFICIENT BONDING SPACES, OTHERWISE PROVIDE NEW PBB. REFER TO SHEET 00-T501 FOR GROUNDING AND BONDING DETAILS.
6. PROVIDE PULL BOX TO ALLOW THROUGH PULL FOR NEW OSP FIBER CABLE.
7. PROVIDE (2) 4" CONDUITS FROM PULLBOX FOR NEW OSP CABLING. COORDINATE ROUTING IN FIELD TO AVOID OBSTRUCTIONS. PROVIDE FIRE STOPPING AS REQUIRED.
8. EXISTING LADDER RACK (TYP). ROUTING BASED ON BEST AVAILABLE INFORMATION, CONTRACTOR TO FIELD VERIFY ROUTING. NEW CAT6A CABLES TO BE RUN IN EXISTING LADDER RACK.
9. PROVIDE (3) 4" CONDUITS TO EXISTING CABLE TRAY FOR HORIZONTAL DISTRIBUTION TO WORK AREA OUTLETS. PROVIDE FIRE STOPPING AS REQUIRED

GENERAL NOTES:

1. FIRE/SMOKE WALL RECORD DRAWINGS WERE NOT PROVIDED BY THE STATION. FIELD-VERIFY EXISTING PARTITION WALLS TO IDENTIFY FIRE/SMOKE RATING AND PROVIDE ALL REQUIRED MEASURES AND APPROPRIATE EQUIPMENT IN ACCORDANCE WITH THE VERIFIED PARTITION TYPE.
2. REFER TO 00-T001 FOR GENERAL NOTES AND LEGENDS.
3. ALL EXISTING CABLES AND INFRASTRUCTURE NOT CAT6A RATED TO BE REPLACED WITH CAT6A CABLING.
4. CONTRACTOR TO VERIFY ALL DATA OUTLET LOCATIONS IN THE FIELD.
5. THE QUANTITY OF TELECOM DROPS TO BE REMOVED, INSTALLED, AND MAINTAINED IS BASED ON THE INFORMATION KNOWN AT THE TIME OF DESIGN. PRIOR TO CONSTRUCTION, TELECOM DROP LOCATIONS SHALL BE SURVEYED. ANY DISCREPANCIES SHALL BE PROVIDED TO THE VA COR IMMEDIATELY.
6. WHERE DROP CEILING TILES ARE DISTURBED FOR INSTALLATION OF TELECOMMUNICATIONS CABLE, INNERDUCT, CABLE TRAY, ETC., ENSURE ALL DUST AND PARTICLES ARE CLEANED PRIOR TO LEAVING THE DISTURBED AREA. PROVIDE NEW DROP CEILING TILES WHERE TILES ARE DAMAGED DURING CONSTRUCTION.
7. ALL ROUTING FOR NEW BACKBONE CABLE SHALL BE ROUTED IN CORRUGATED INNERDUCT.
8. NEW WORK AREA OUTLET/DATA DROP LOCATIONS IN BUILDING 73 ARE CURRENTLY UNDER COORDINATION WITH THE PROJECT COR.
9. LOCATION OF SECOND REDUNDANT OSP ENTRANCE POINT NEEDS TO BE COORDINATED WITH CIVIL PRIOR TO BEING ADDED TO PLANS. WILL BE SHOWN NEXT SUBMITTAL.

1/2" = 1'-0" SCALE 1 0 1 2 3 4 5 FEET

1/4" = 1'-0" SCALE 2 0 2 4 6 8 10 FEET

PLAN NORTH N

Revisions:	Date:

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Facilities Management Services

VA U.S. Department of Veterans Affairs

Drawing Title: TELECOMMUNICATIONS 1ST FLOOR PLAN

Phase: FINAL BID DOCUMENTS

Project Title: EHRM INFRASTRUCTURE UPGRADES

Project Number: 637-22-700

Building Number: BLDG 73

Approved:

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Location: 1100 TUNNEL ROAD ASHEVILLE, NC 28805

Issue Date: 12.19.2025

Checked

Drawn

Drawing Number: 73-TN101

SHEET 557 of 559

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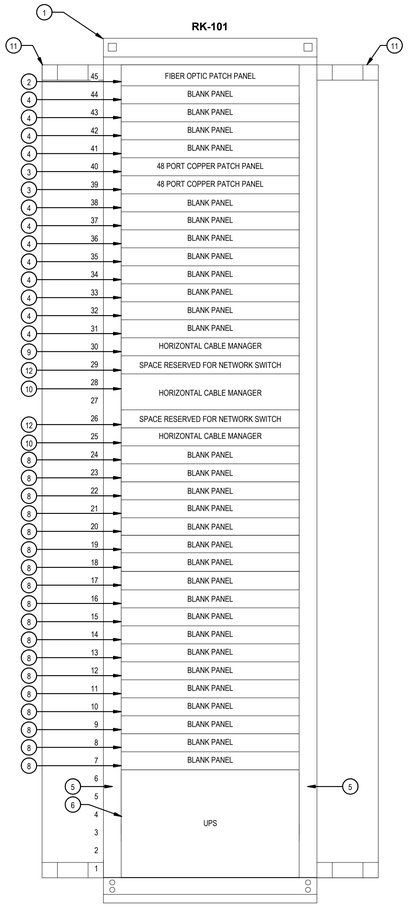
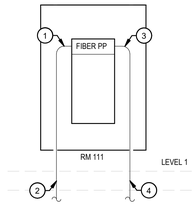


DATA PORTS	54
DATA PORTS + 10% OVERAGE	60
TOTAL SPARE PORTS	(48 x 2) - 60 = 36

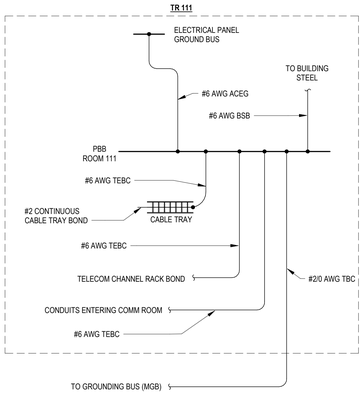
1 TR 111 - TELECOMMUNICATIONS RACK ELEVATION
N.T.S.



DETAIL NOTES:

1. FIBER FROM CORE 1 IN BUILDING 47 LANDING ON FIBER OPTIC PATCH PANEL IN TR: (1) 24ST OS2 SINGLE MODE FIBER
2. FIBER ORIGINATING FROM CORE 1 IN BUILDING 47: (1) 24ST OS2 SINGLE MODE FIBER
3. FIBER FROM CORE 2 IN BUILDING 47 LANDING ON FIBER OPTIC PATCH PANEL IN TR: (1) 24ST OS2 SINGLE MODE FIBER
4. FIBER ORIGINATING FROM CORE 2 IN BUILDING 47: (1) 24ST OS2 SINGLE MODE FIBER

2 TELECOMMUNICATIONS RISER DIAGRAM
N.T.S.



GROUNDING NOTES:

1. METALLIC TELECOM RACEWAY AND EQUIPMENT SHALL BE GROUNDED. BOND RACEWAY TO NEAREST TELECOM GROUND BUS USING A TEBC, #6 AWG MINIMUM.
2. TELECOM GROUNDING SYSTEM MUST BE IN ACCORDANCE WITH TIA-607 AND THE VA DESIGN STANDARDS.
3. COAXIAL METAL SHEATH MUST BE GROUNDED AND BONDED PER NEC REQUIREMENTS.
4. TBB CONDUCTOR MUST BE SIZED BASED ON THE TABLE BELOW, SIZING OF TELECOM BONDING BACKBONE.

ACRONYMS

ACEG	ALTERNATING CURRENT EQUIPMENT GROUND
BBC	BACKBONE BONDING CONDUCTOR
BSB	BUILDING STRUCTURE BONDING
MGB	MAIN GROUNDING BUS
PBB	PRIMARY BONDING BUSBAR
SBB	SECONDARY BONDING BUSBAR
TBB	TELECOMMUNICATIONS BACKBONE BONDING CONDUCTOR
TBC	TELECOMMUNICATIONS BONDING CONDUCTOR
TEBC	TELECOMMUNICATIONS EQUIPMENT BONDING CONDUCTOR

SIZING OF TELECOM BONDING BACKBONE	
TBB LINEAR FT	TBB SIZE (AWG)
<13	6
14-20	4
21-26	3
27-33	2
34-41	1
42-52	1/0
53-66	2/0
67-84	3/0
85-105	4/0
106-125	250KCMIL
126-150	300KCMIL
151-175	350KCMIL
176-250	500KCMIL
251-300	600KCMIL
>301	750KCMIL

3 TELECOMMUNICATIONS GROUNDING RISER DIAGRAM
N.T.S.

SHEET NOTES:

1. 45U FREE STANDING 4-POST RACK, 19 INCHES.
2. 144 STRAND FIBER OPTIC ANGLED PATCH PANEL WITH SPLICE KIT, LC CONNECTORS, 1U.
3. 48-PORT UTP CAT6A ANGLED PATCH PANEL AND CABLES, 1U.
4. ANGLED BLANKING PANEL, 1U.
5. RACK MOUNTED POWER DISTRIBUTION UNIT, MOUNTED VERTICALLY ON THE REAR OF THE RACK, L21-20 INPUT POWER CORD PLUG TYPE.
6. RACK MOUNTED 5KW, 208V UNINTERRUPTIBLE POWER SUPPLY, 6U.
7. RACK MOUNTED ZONE PDU, 2U.
8. FLAT BLANKING PANEL, 1U.
9. FLAT HORIZONTAL CABLE MANAGEMENT, 1U.
10. FLAT HORIZONTAL CABLE MANAGEMENT, 2U.
11. VERTICAL CABLE MANAGER, 6" WIDE ON EACH SIDE OF AND IN BETWEEN RACKS.
12. SPACE RESERVED FOR NETWORK ACCESS SWITCH, 1U. TO BE PROVIDED BY VA AND INSTALLED BY LOCAL OIT (GFGI).

GENERAL NOTES:

1. REFER TO 00-T-001 FOR GENERAL NOTES AND LEGENDS.
2. PROVIDE RACK MOUNTED GROUND BAR AT THE REAR OF EACH RACK. EXISTING RACK MOUNTED GROUND BAR MAY BE REUSED IF IT HAS SUFFICIENT BONDING SPACES, OTHERWISE PROVIDE NEW RACK MOUNTED GROUND BAR.
3. HORIZONTAL CABLE COUNT IN RACK ELEVATION IS BASED ON A 1-TO-1 REPLACEMENT OF DATA DROPS FOUND ON SITE IN LIEU OF NOT HAVING THE CONSOLIDATED-DATA PLANS FROM THE COR. SUBJECT TO CHANGE ONCE THESE PLANS ARE RECEIVED.

Revisions: Date:

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VA U.S. Department of Veterans Affairs

Drawing Title: TELECOMMUNICATIONS DIAGRAMS
Phase: FINAL BID DOCUMENTS
Project Title: EHRM INFRASTRUCTURE UPGRADES
Project Number: 637-22-700
Building Number: BLDG 73
Approved:
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Location: 1100 TUNNEL ROAD ASHEVILLE, NC 28805
Issue Date: 12.19.2025
Checked:
Drawn:
Drawing Number: 73-TN601
SHEET 558 of 559

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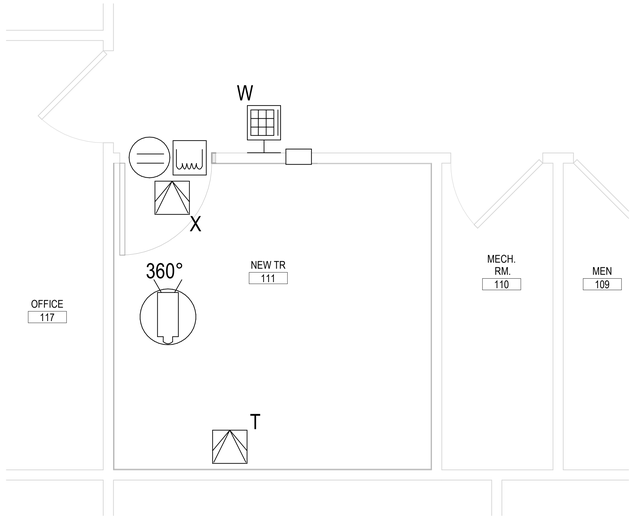
1 FIRST FLOOR SECURITY PLAN
1/4" = 1'-0"



2 ENLARGED FIRST FLOOR SECURITY PLAN
1/2" = 1'-0"

SHEET NOTES:

1. COORDINATE MOUNTING HEIGHTS AND INSTALLATION DETAILS WITH ARCHITECTURAL DRAWINGS.
2. BASE BUILDING SECURITY SYSTEM IS JOHNSON CONTROLS (JCI). COORDINATE SECURITY SYSTEM CABINETS, HEAD-ENDS, AND ASSOCIATED INFRASTRUCTURE TO FEED NEW CAMERA AND ACCESS CONTROL DEVICES WITH BASE BUILDING SECURITY VENDOR.
3. CONTRACTOR TO SUBMIT SHOP DRAWINGS FOR REVIEW AND APPROVAL BY AE WHICH ARE PREPARED BY BASE BUILDING SECURITY SYSTEM VENDOR. DRAWINGS TO INCLUDE ALL NECESSARY COMPONENTS AND BACK-END EQUIPMENT LOCATIONS FOR A COMPLETE AND FULLY FUNCTIONAL SYSTEM.
4. CONTRACTOR SHALL VERIFY IN FIELD EXISTING AVAILABLE NETWORK SWITCHES. NEW CAMERAS SHALL BE CONNECTED TO NEAREST AVAILABLE NETWORK SWITCH. FOR BID PURPOSES, ASSUME 300FT CABLE LENGTH FROM CAMERA TO SECURITY SWITCH.
5. ACCESS CONTROL SYSTEM: NEW ACCESS CONTROL PROVISIONS TO BE INSTALLED FOR ALL NEW, RELOCATED, OR EXPANDED TELECOM ROOMS. CONTRACTOR TO COORDINATE ALL HARDWARE AND LOCATIONS WITH BASE BUILDING SECURITY SYSTEM VENDOR AND VA STAFF.
6. SSTV SYSTEM: NEW SECURITY CAMERAS TO BE INSTALLED FOR ALL NEW, RELOCATED, OR EXPANDED TELECOM ROOMS. CONTRACTOR TO COORDINATE ALL HARDWARE AND LOCATIONS WITH BASE BUILDING SECURITY SYSTEM VENDOR AND VA STAFF.
7. ALL CONDUIT AND BACK BOXES REQUIRED FOR THE INSTALLATION OF SECURITY DEVICES AND EQUIPMENT TO BE PROVIDED BY DIV. 26 CONTRACTOR. COORDINATE WITH THE VA FACILITIES DEPARTMENT FOR EXACT LOCATION OF DEVICES.
8. REFERENCE ARCHITECTURAL SHEETS FOR ALL DOOR TYPES, ENCLOSURES, FRAME DETAILS AND PATHWAYS.
9. ALL TELECOM RACKS TO BE PROVIDED BY DIV. 27 CONTRACTOR.
10. ALL SECURITY HEAD-END EQUIPMENT IS EXISTING TO REMAIN. EXISTING CAMERAS BEING FED FROM DECOMMISSIONED TELECOM RACKS, PER TELECOM DRAWINGS AND SCOPE, SHALL BE RE-FED FROM NEW/REPLACEMENT RACKS IN NEW TELECOM ROOM LOCATION. COORDINATE WITH TELECOM DRAWINGS FOR MORE INFORMATION.
11. COORDINATE WITH DOOR HARDWARE SCHEDULE IN ARCHITECTURAL DRAWING SET FOR LOCKING MECHANISM TYPE FOR SECURITY INTEGRATION (ELECTRIC LATCH, ELECTRIC STRIKE, MAGNETIC LOCK). PROVIDE ALL HARDWARE AND ACCESSORIES NECESSARY.
12. MOTION DETECTOR REX TO BE PROGRAMMED AND INTEGRATED WITH DOOR HARDWARE TO PREVENT LOCKING OF DOOR IF ROOM IS OCCUPIED. INSTALL REX MOTION SENSOR ABOVE DOOR FRAME.
13. PROVIDE TRI-TECH MOTION SENSOR IN TR'S (SEPARATE FROM REX) FOR ROOM OCCUPANCY MONITORING TIED TO PACS SYSTEM.
14. SUBMIT COMPLETE ACCESS CONTROL AND VIDEO SURVEILLANCE SUBMITTAL PACKAGE PER SPECIFICATION SECTIONS 282300-1.5D AND 281300-1.4D.

SYMBOLS LEGEND:

- W — CARD READER WITH KEYPAD (W - WALL MTD)
- 360° — CEILING MTD. CAMERA, 360 DEGREE, W/ SUPPLEMENTAL IR RING.
- E — ELECTRONIC LOCK
- SECURITY ACCESS, SWITCH, BALANCED MAGNETIC CONTROL
- MOTION DETECTOR
  - T-ROOM OCCUPANCY MOTION SENSOR (TRI-TECH- PIR, MICROWAVE, DOPPLER)
  - X-REQUEST-TO-EXIT MOTION SENSOR (DUAL TECH- PIR, MICROWAVE)
- DPS — ACCESS CONTROL DOOR POSITION SWITCH

VENDOR CONTACT INFORMATION:

BRIAN SHALLENBERGER
JOHNSON CONTROLS
GREENVILLE-SPARTANBURG, SC
BRIAN.SHALLENBERGER@JCI.COM

1/2" = 1'-0" — 1 0 1 2 3 4 5 — SCALE — FEET

1/4" = 1'-0" — 2 0 2 4 6 8 10 — SCALE — FEET

PLAN NORTH N

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VA U.S. Department of Veterans Affairs

Drawing Title: 1ST FLOOR SECURITY PLAN	Phase: FINAL BID DOCUMENTS	Project Title: EHRM INFRASTRUCTURE UPGRADES	Project Number: 637-22-700
Approved:			Building Number: 73
FOR OFFICIAL USE ONLY		Location: 1100 TUNNEL ROAD, ASHEVILLE, NC 28805	Drawing Number: 73-TY101
		Issue Date: **12.19.2025** / Checked / Drawn	SHEET 559 of 559

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