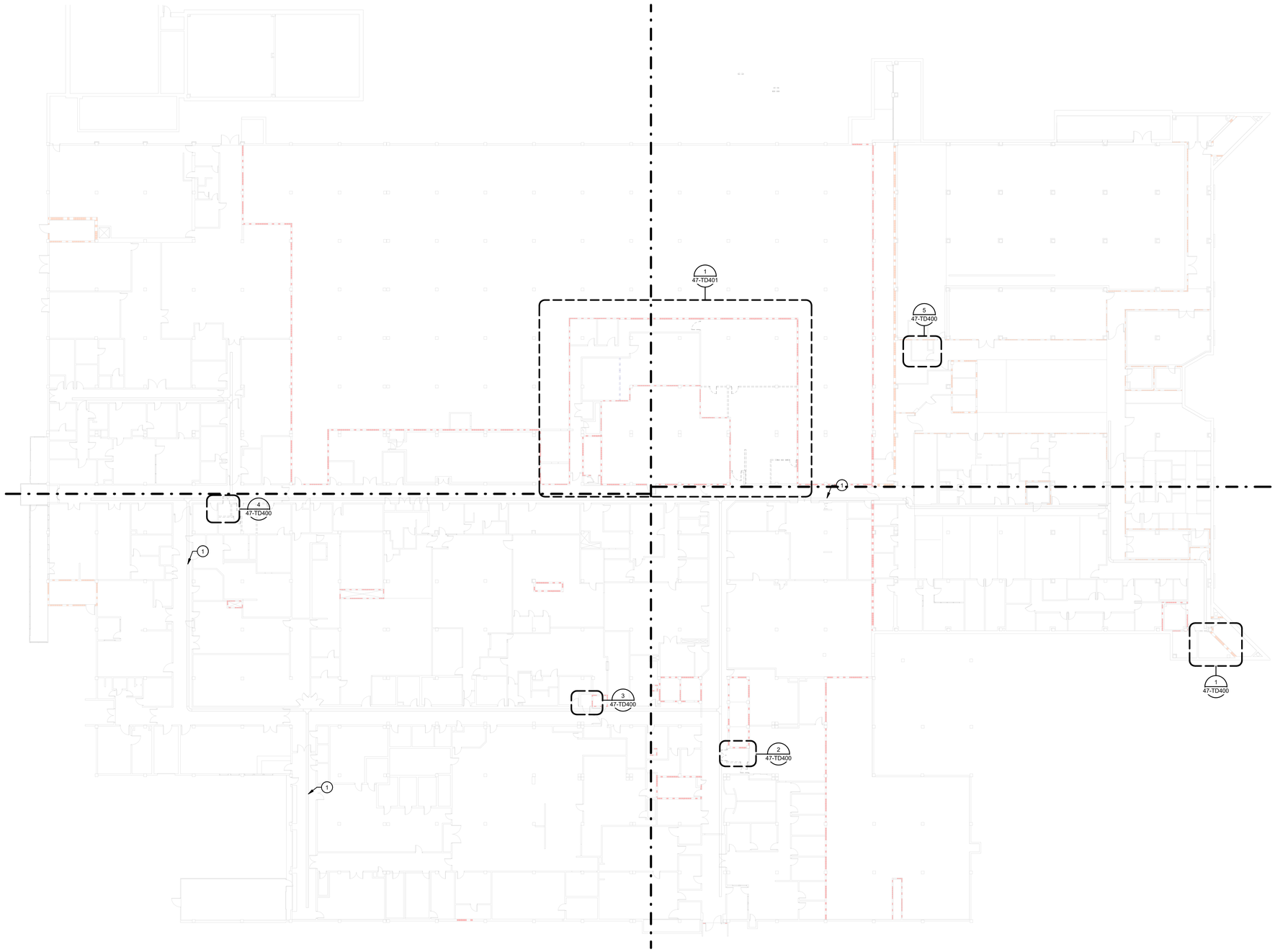

1 TELECOMMUNICATIONS BASEMENT DEMOLITION - OVERALL
1" = 20'-0"

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.
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6. DEMOLITION DETAILS (IN NO PARTICULAR ORDER):
   A. REFER TO ENLARGED PLANS FOR ADDITIONAL REQUIREMENTS.
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   F. HORIZONTAL AND VERTICAL CABLE MANAGEMENT FOR RACKS SHALL BE REMOVED IF APPLICABLE.
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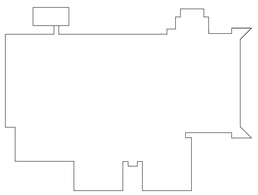
8. PRIOR TO DEMOLITION, COORDINATE DISPOSAL WITH VA. ALL VA STANDARDS, EPA STANDARDS AND LOCAL STANDARDS MUST BE FOLLOWED WHEN DISPOSING OF ASBESTOS EXPOSED ITEMS.

KEY PLAN



PLAN NORTH N

1" = 20'-0" SCALE 20 0 20 40 FEET

Revisions:	Date:

ARCHITECT/ENGINEER OF RECORD

AWEN SOLUTIONS GROUP
ARCHITECTURE | ENGINEERING | PLANNING

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BICSI ID # 237176
Expires 12-31-28
RCDD
12/18/2025

Facilities Management Services

VA U.S. Department of Veterans Affairs

Drawing Title: TELECOMMUNICATIONS BASEMENT DEMOLITION - OVERALL

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 47

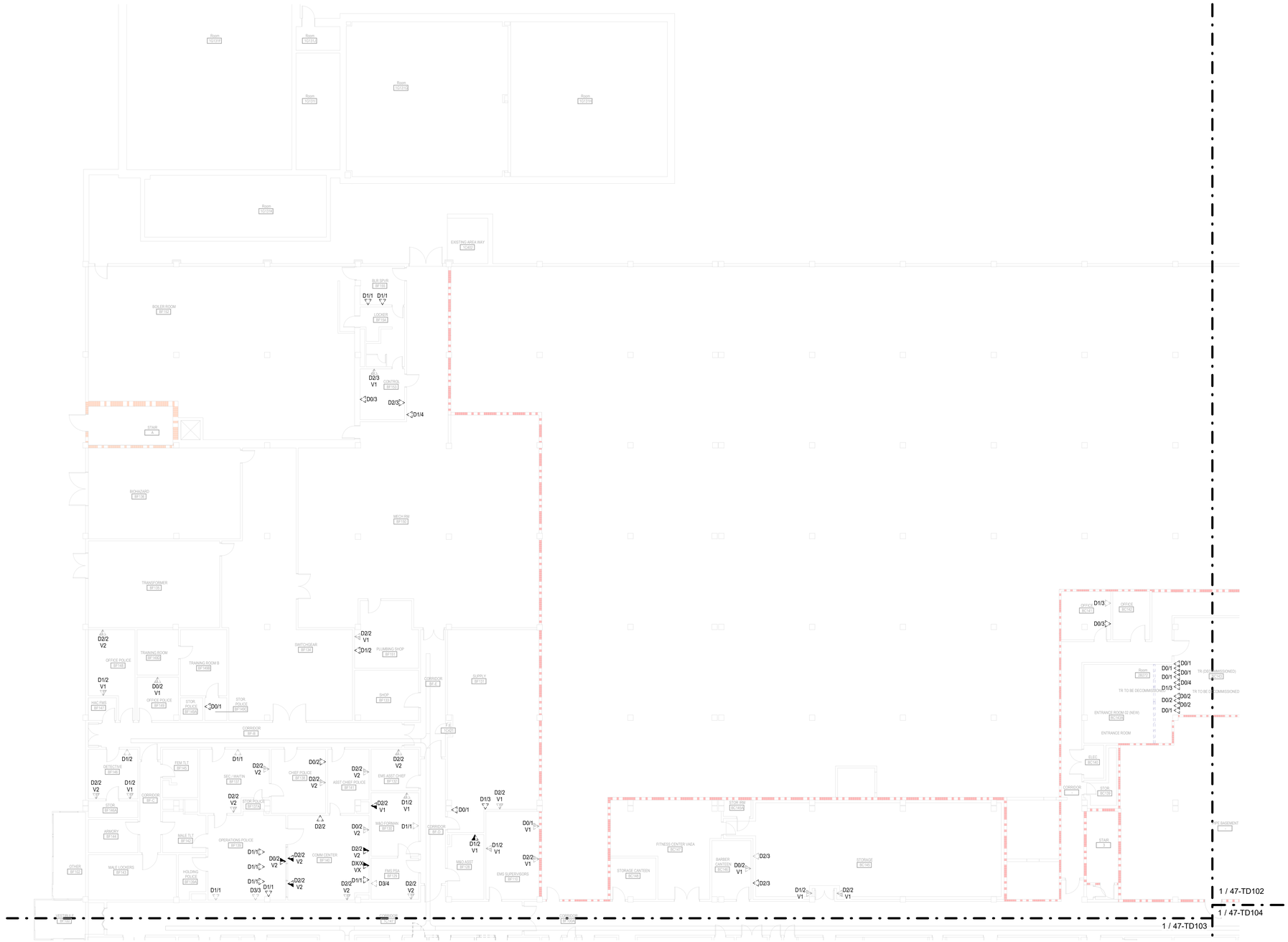
Drawing Number: 47-TD100

SHEET OF 100

VA FORM 08 - 6231

12/18/2025 5:57:45 PM

Autodesk Docs://Asheville EHRM_V23/637-22-700.047.E-ASH - EHRM.rvt



1 TELECOMMUNICATIONS BASEMENT DEMOLITION - PART A
3/32" = 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.
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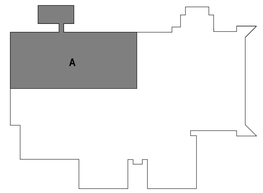
KEY PLAN



PLAN NORTH N

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

Revisions:	Date:

ARCHITECT/ENGINEER OF RECORD

AWEN SOLUTIONS GROUP
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Facilities Management Services

VA U.S. Department of Veterans Affairs

Drawing Title: TELECOMMUNICATIONS BASEMENT DEMOLITION - PART A

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 47

Drawing Number: 47-TD101

SHEET OF 100

VA FORM 08 - 6231

12/18/2025 5:57:48 PM

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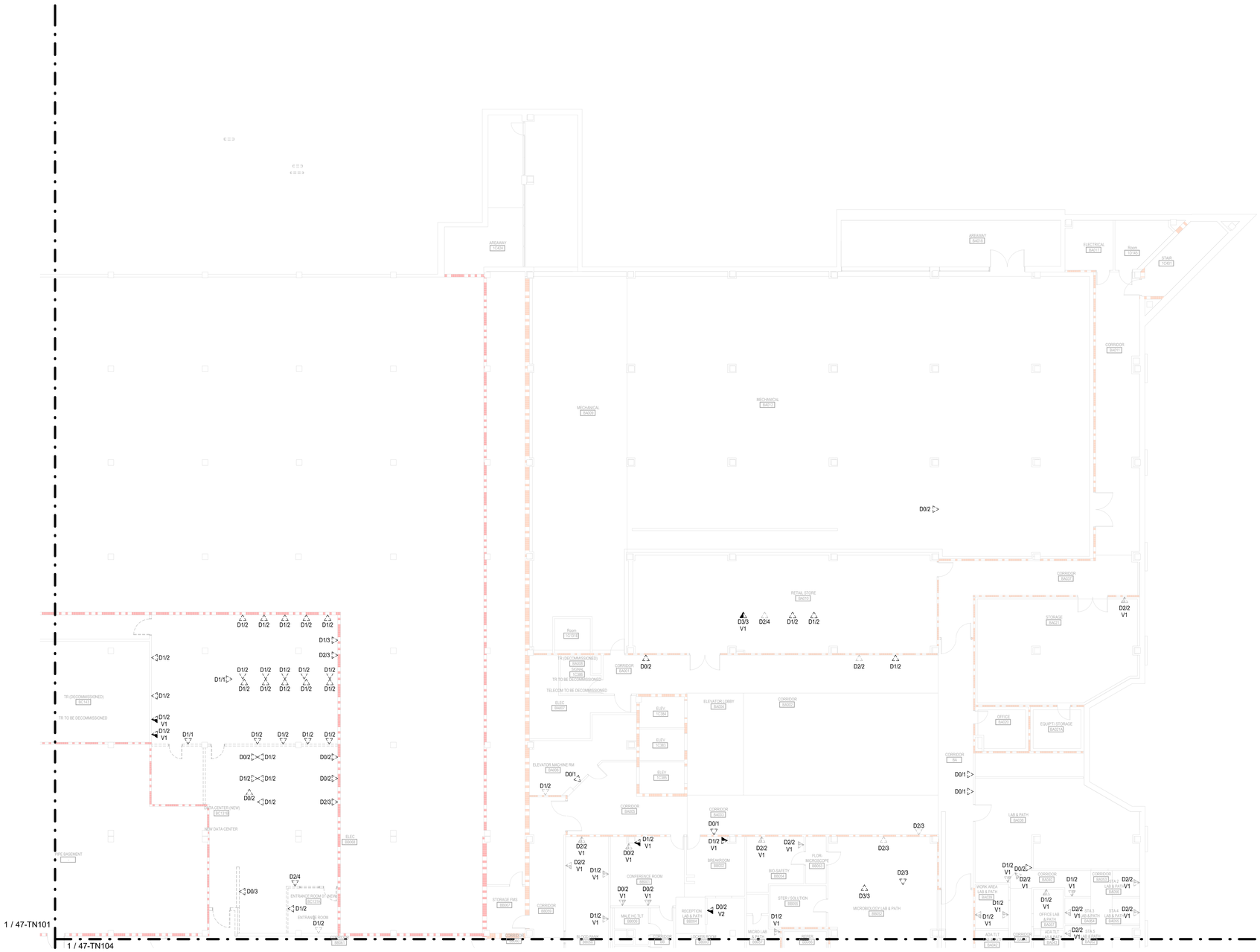

1 TELECOMMUNICATIONS BASEMENT DEMOLITION - PART B

3/32" = 1'-0"

SHEET NOTES:

GENERAL NOTES:

1. REFER TO 00-T001 FOR GENERAL NOTES AND LEGENDS.
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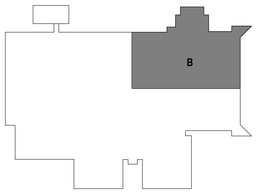
KEY PLAN



PLAN NORTH N

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

Revisions:	Date:

ARCHITECT/ENGINEER OF RECORD

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Facilities Management Services

VA U.S. Department of Veterans Affairs

Drawing Title: TELECOMMUNICATIONS BASEMENT DEMOLITION - PART B

Approved:

FOR OFFICIAL USE ONLY

Phase: FINAL BID DOCUMENTS

Project Title: EHRM INFRASTRUCTURE UPGRADES

Project Number: 637-22-700

Building Number: BLDG 47

Location: 1100 TUNNEL ROAD ASHEVILLE, NC 28805

Issue Date: 12.19.2025

Checked:

Drawn:

Drawing Number: 47-TD102

SHEET OF 100

12/18/2025 5:57:50 PM

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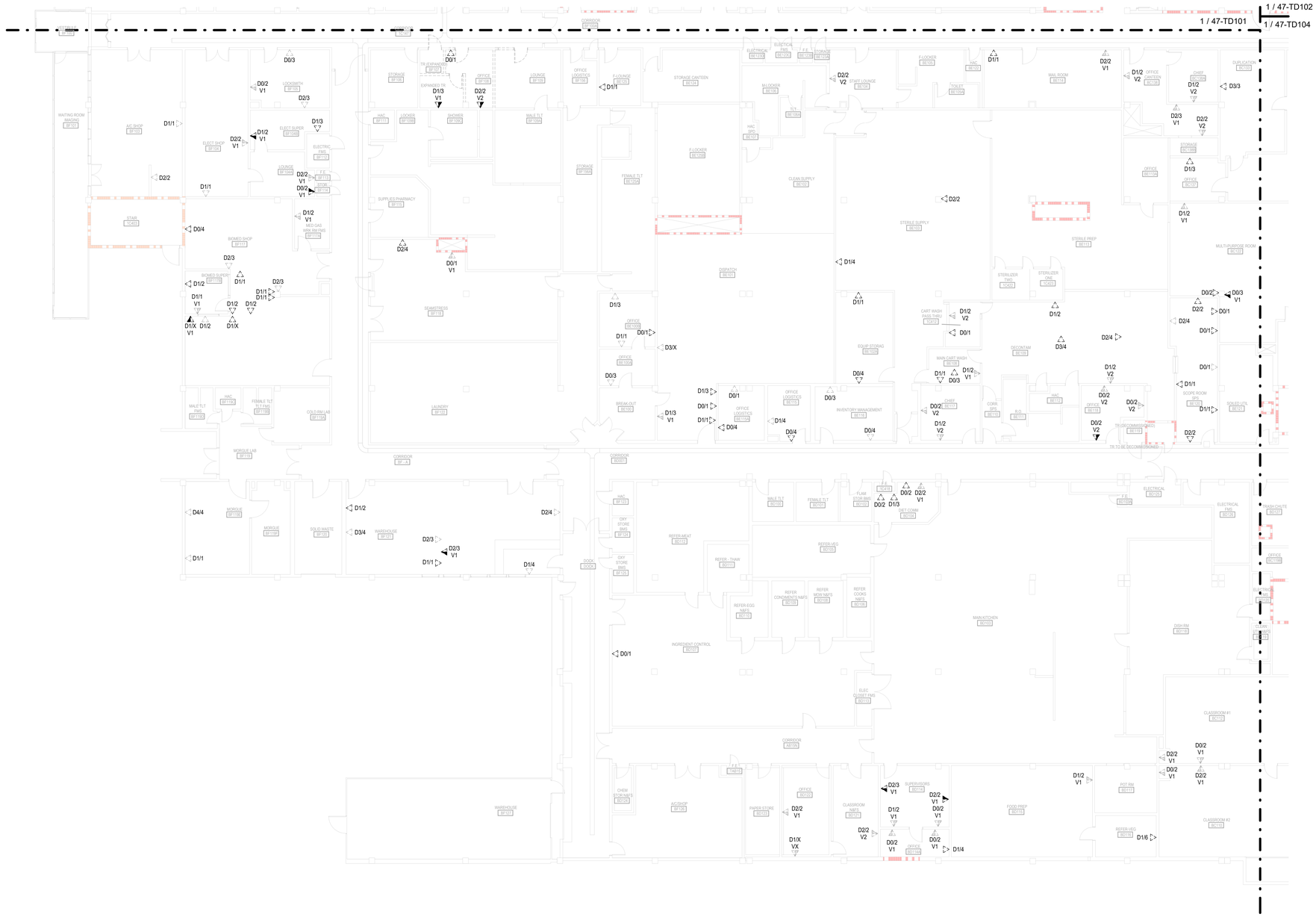
VA FORM 08 - 6231



1 TELECOMMUNICATIONS BASEMENT DEMOLITION - PART C
3/32" = 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.
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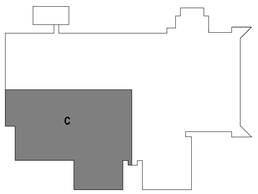
KEY PLAN



PLAN NORTH N

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

Revisions:	Date:

ARCHITECT/ENGINEER OF RECORD

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Facilities Management Services

VA U.S. Department of Veterans Affairs

Drawing Title: TELECOMMUNICATIONS BASEMENT DEMOLITION - PART C

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 47

Drawing Number: 47-TD103

SHEET OF 100

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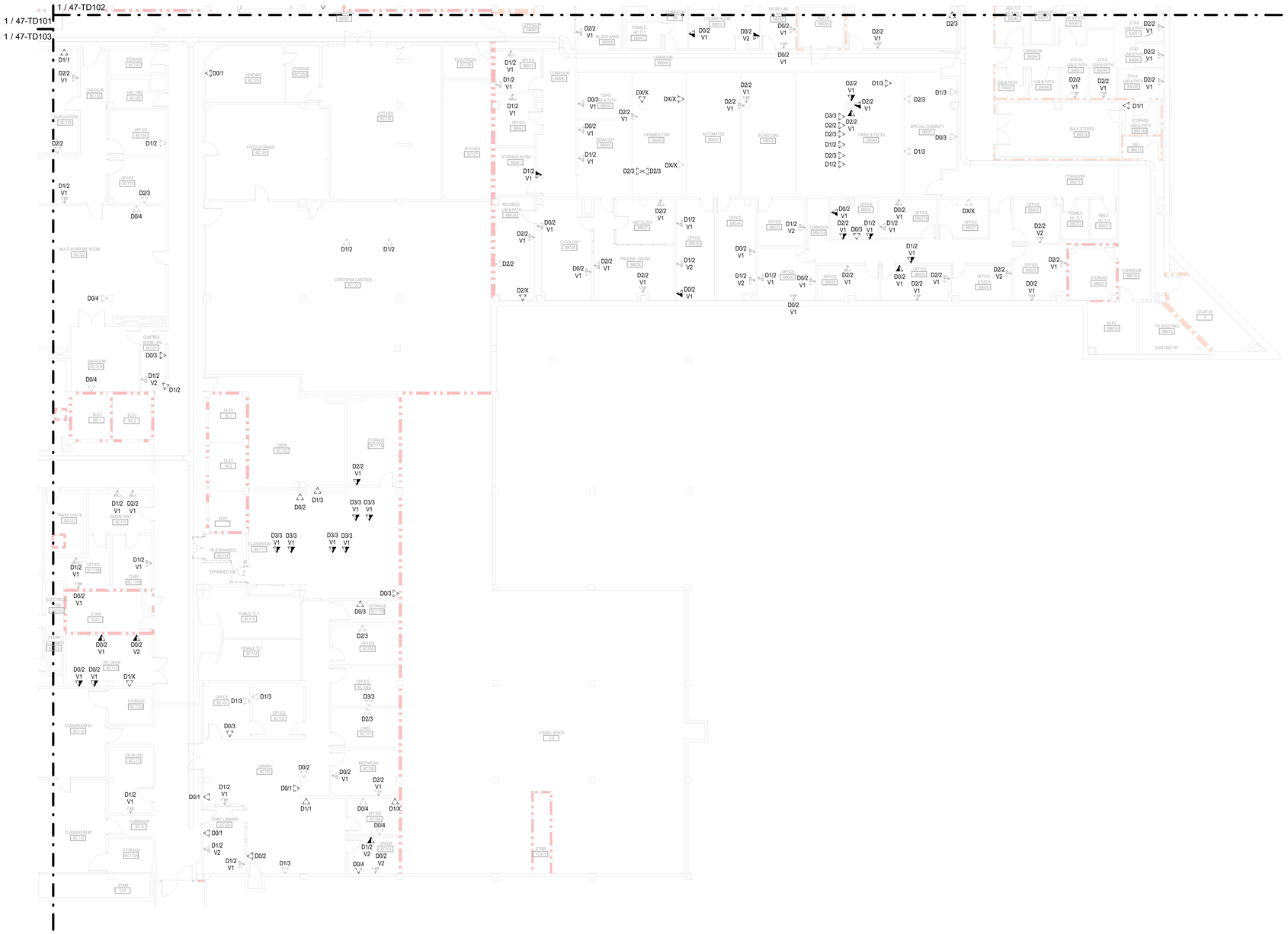
VA FORM 08 - 6231



1 TELECOMMUNICATIONS BASEMENT DEMOLITION - PART D
3/32" = 1'-0"

SHEET NOTES:

GENERAL NOTES:

1. REFER TO 00-T001 FOR GENERAL NOTES AND LEGENDS.
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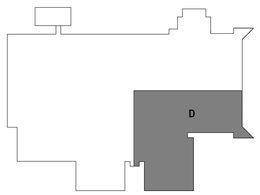
KEY PLAN



PLAN NORTH N

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

Revisions:	Date:

ARCHITECT/ENGINEER OF RECORD

AWEN SOLUTIONS GROUP
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Facilities Management Services

VA U.S. Department of Veterans Affairs

Drawing Title: TELECOMMUNICATIONS BASEMENT DEMOLITION - PART D

Phase: FINAL BID DOCUMENTS

Project Title: EHRM INFRASTRUCTURE UPGRADES

Project Number: 637-22-700

Building Number: BLDG 47

Approved:

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Location: 1100 TUNNEL ROAD ASHEVILLE, NC 28805

Issue Date: 12.19.2025

Checked:

Drawn:

Drawing Number: 47-TD104

SHEET OF 100

VA FORM 08 - 6231

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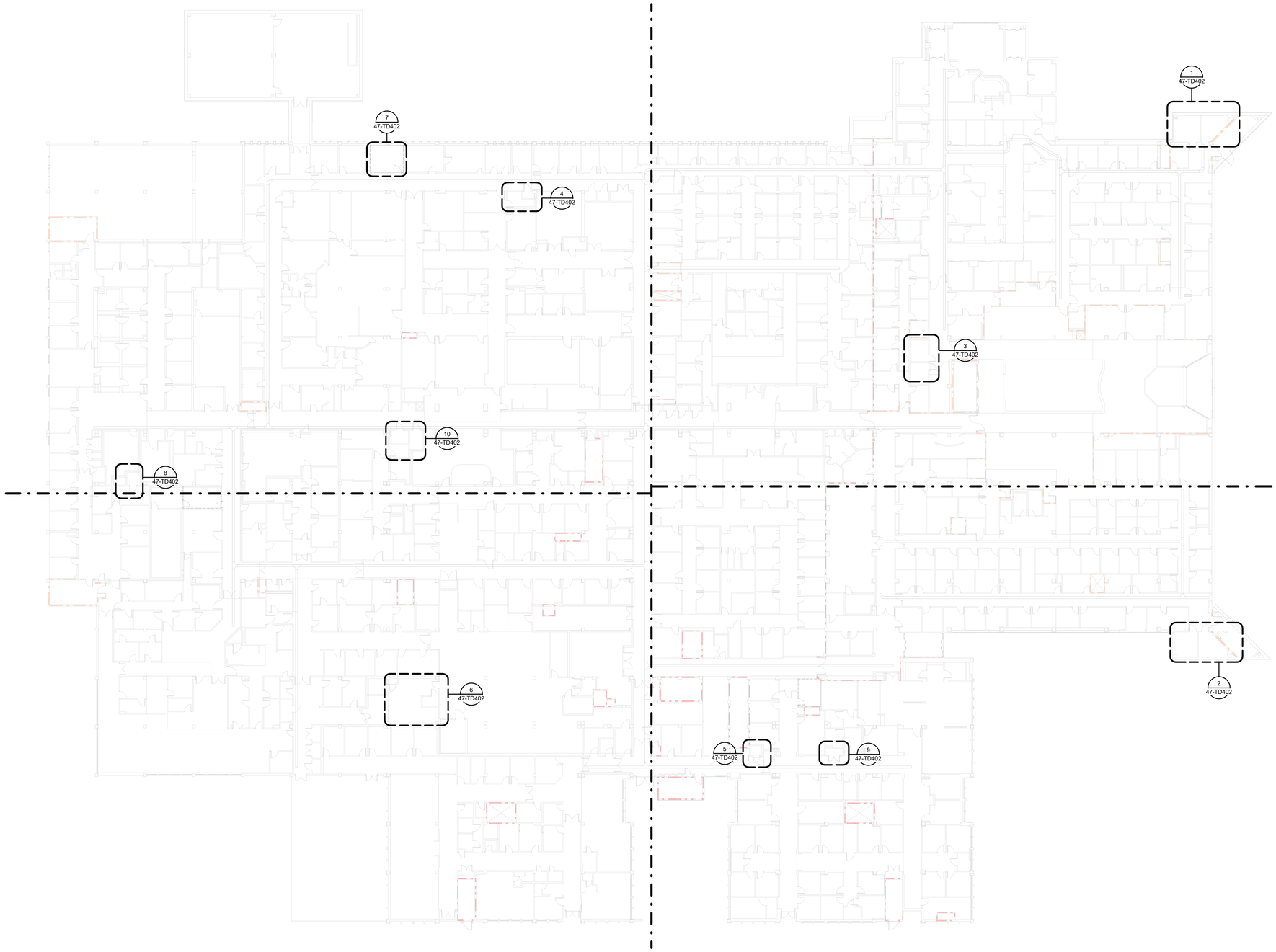

1 TELECOMMUNICATIONS 1ST FLOOR DEMOLITION - OVERALL
1" = 20'-0"

SHEET NOTES:

GENERAL NOTES:

1. REFER TO 00-T001 FOR GENERAL NOTES AND LEGENDS.
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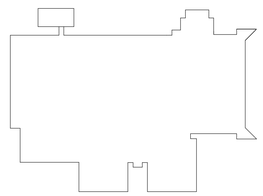
8. PRIOR TO DEMOLITION, COORDINATE DISPOSAL WITH VA. ALL VA STANDARDS, EPA STANDARDS AND LOCAL STANDARDS MUST BE FOLLOWED WHEN DISPOSING OF ASBESTOS EXPOSED ITEMS.

KEY PLAN



PLAN NORTH N

1" = 20'-0" 20 0 20 40 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 1ST FLOOR DEMOLITION - OVERALL	FINAL BID DOCUMENTS	EHRM INFRASTRUCTURE UPGRADES	637-22-700
Approved: FOR OFFICIAL USE ONLY		Location: 1100 TUNNEL ROAD ASHEVILLE, NC 28805	Building Number: BLDG 47
		Issue Date: 12.19.2025 / Checked / Drawn	Drawing Number: 47-TD110
			SHEET OF 100

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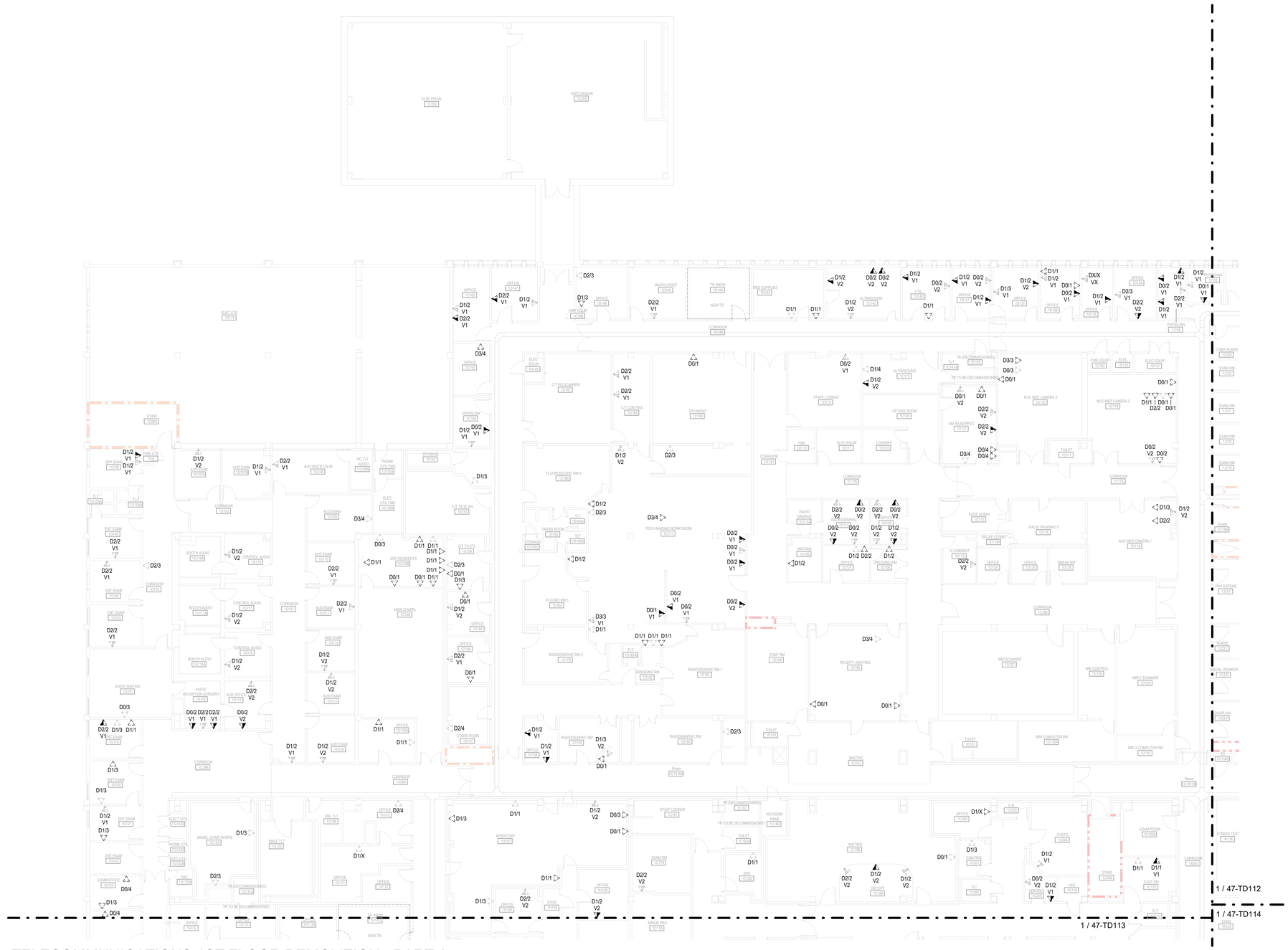

1 TELECOMMUNICATIONS 1ST FLOOR DEMOLITION - PART A
3/32" = 1'-0"

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. 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.
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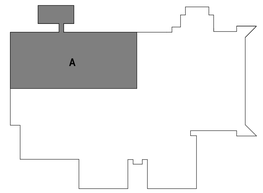
KEY PLAN



PLAN NORTH N

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

Revisions:	Date:

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Facilities Management Services

VA U.S. Department of Veterans Affairs

Drawing Title: TELECOMMUNICATIONS 1ST FLOOR DEMOLITION - PART A	Phase: FINAL BID DOCUMENTS	Project Title: EHRM INFRASTRUCTURE UPGRADES	Project Number: 637-22-700
			Building Number: BLDG 47
Approved:		Location: 1100 TUNNEL ROAD ASHEVILLE, NC 28805	Drawing Number: 47-TD111
FOR OFFICIAL USE ONLY		Issue Date: 12.19.2025 / Checked / Drawn	SHEET OF 100

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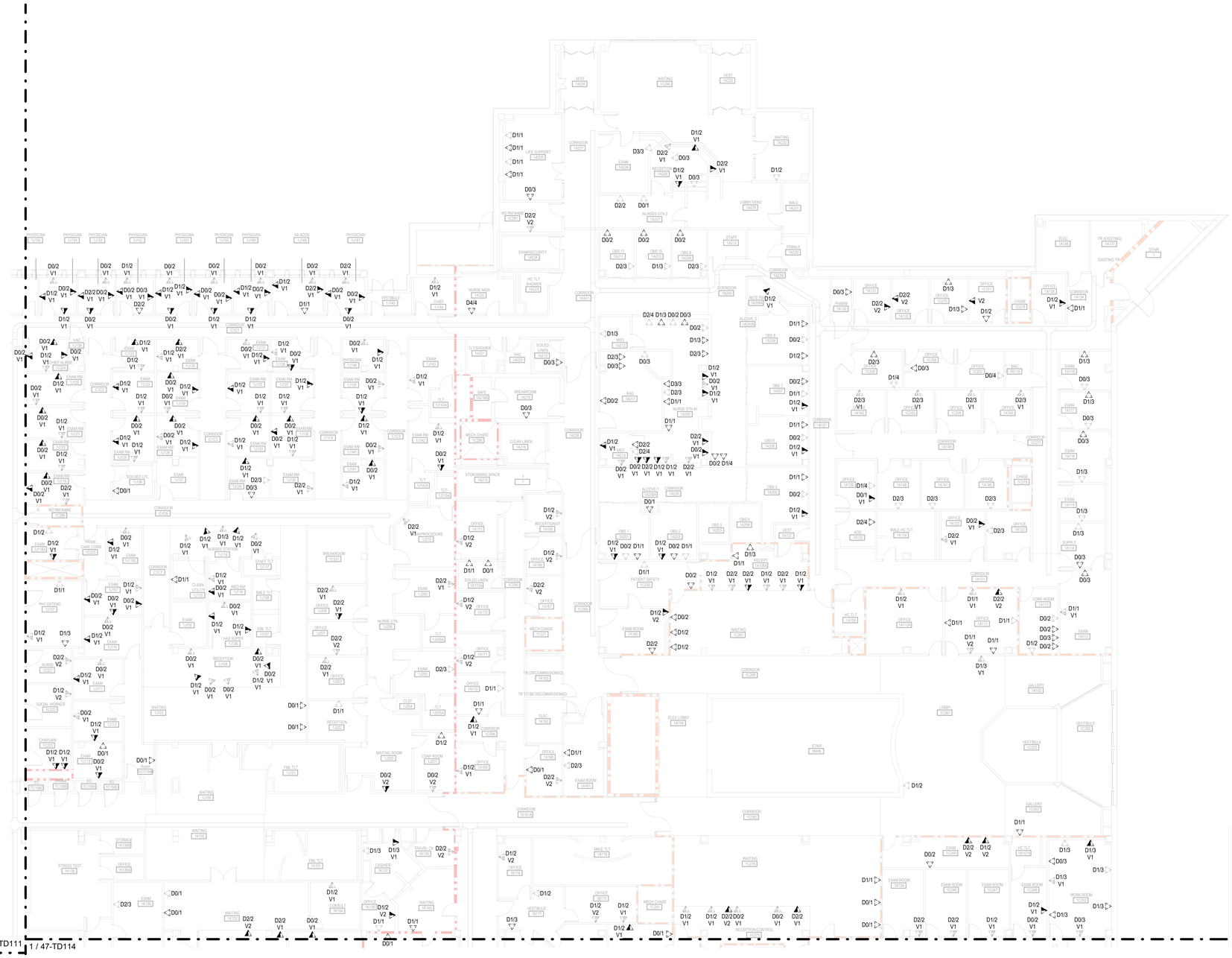

1 TELECOMMUNICATIONS 1ST FLOOR DEMOLITION - PART B
3/32" = 1'-0"

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. 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.
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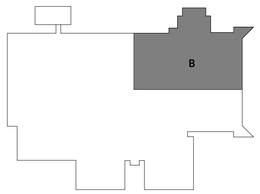
KEY PLAN



PLAN NORTH N

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

Revisions:	Date:

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Facilities Management Services

VA U.S. Department of Veterans Affairs

Drawing Title: TELECOMMUNICATIONS 1ST FLOOR DEMOLITION - PART B

Approved:

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Phase: FINAL BID DOCUMENTS

Project Title: EHRM INFRASTRUCTURE UPGRADES

Project Number: 637-22-700

Building Number: BLDG 47

Location: 1100 TUNNEL ROAD ASHEVILLE, NC 28805

Issue Date: 12.19.2025

Checked:

Drawn:

Drawing Number: 47-TD112

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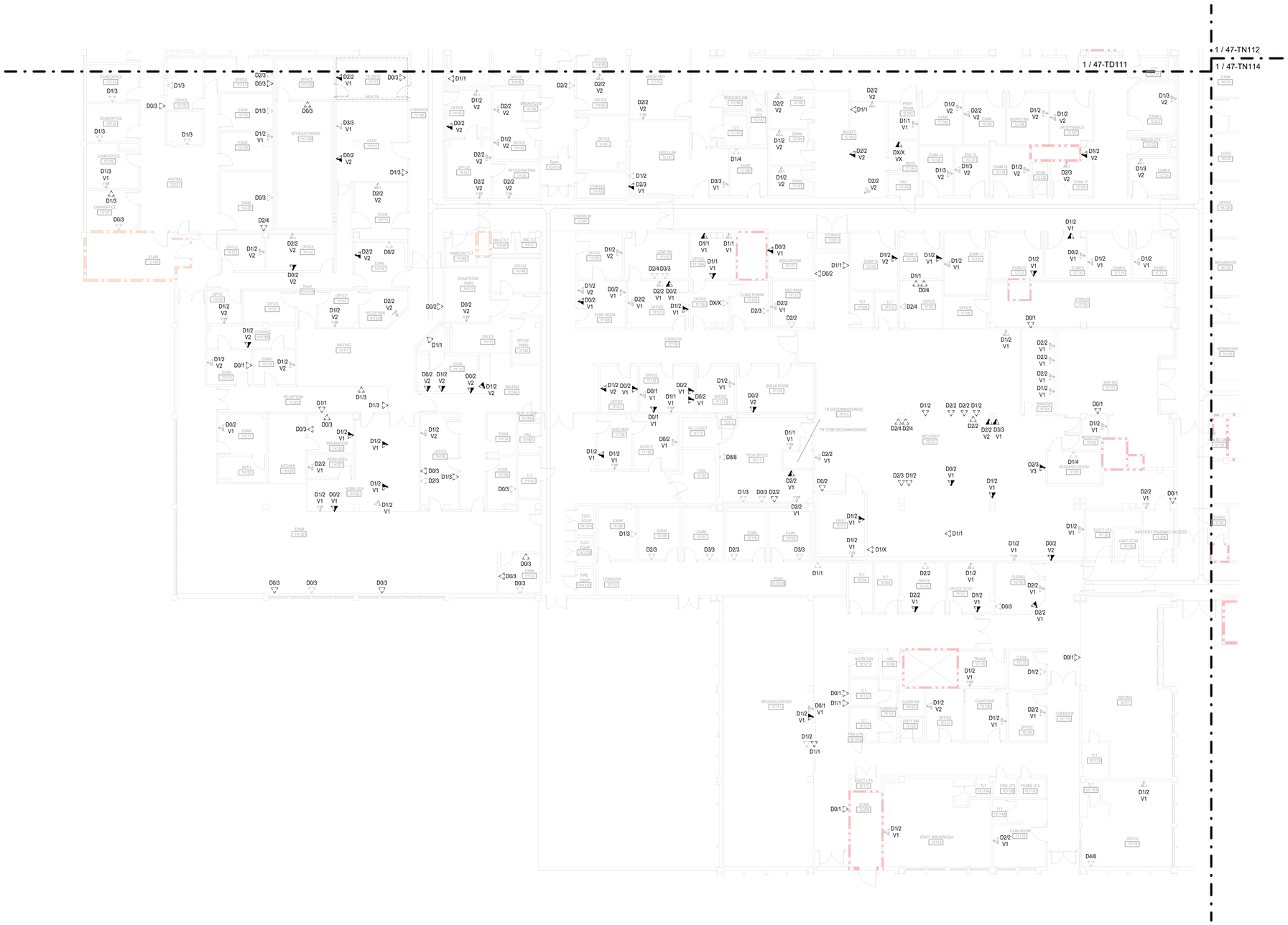

1 TELECOMMUNICATIONS 1ST FLOOR DEMOLITION - PART C
3/32" = 1'-0"

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.
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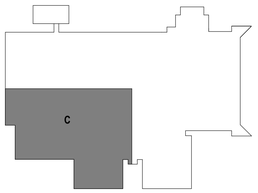
KEY PLAN



PLAN NORTH N

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

Revisions:	Date:

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VA U.S. Department of Veterans Affairs

Drawing Title: TELECOMMUNICATIONS 1ST FLOOR DEMOLITION - PART C	Phase: FINAL BID DOCUMENTS	Project Title: EHRM INFRASTRUCTURE UPGRADES	Project Number: 637-22-700
			Building Number: BLDG 47
Approved: FOR OFFICIAL USE ONLY		Location: 1100 TUNNEL ROAD ASHEVILLE, NC 28805	Drawing Number: 47-TD113
		Issue Date: 12.19.2025 / Checked / Drawn	SHEET OF 100

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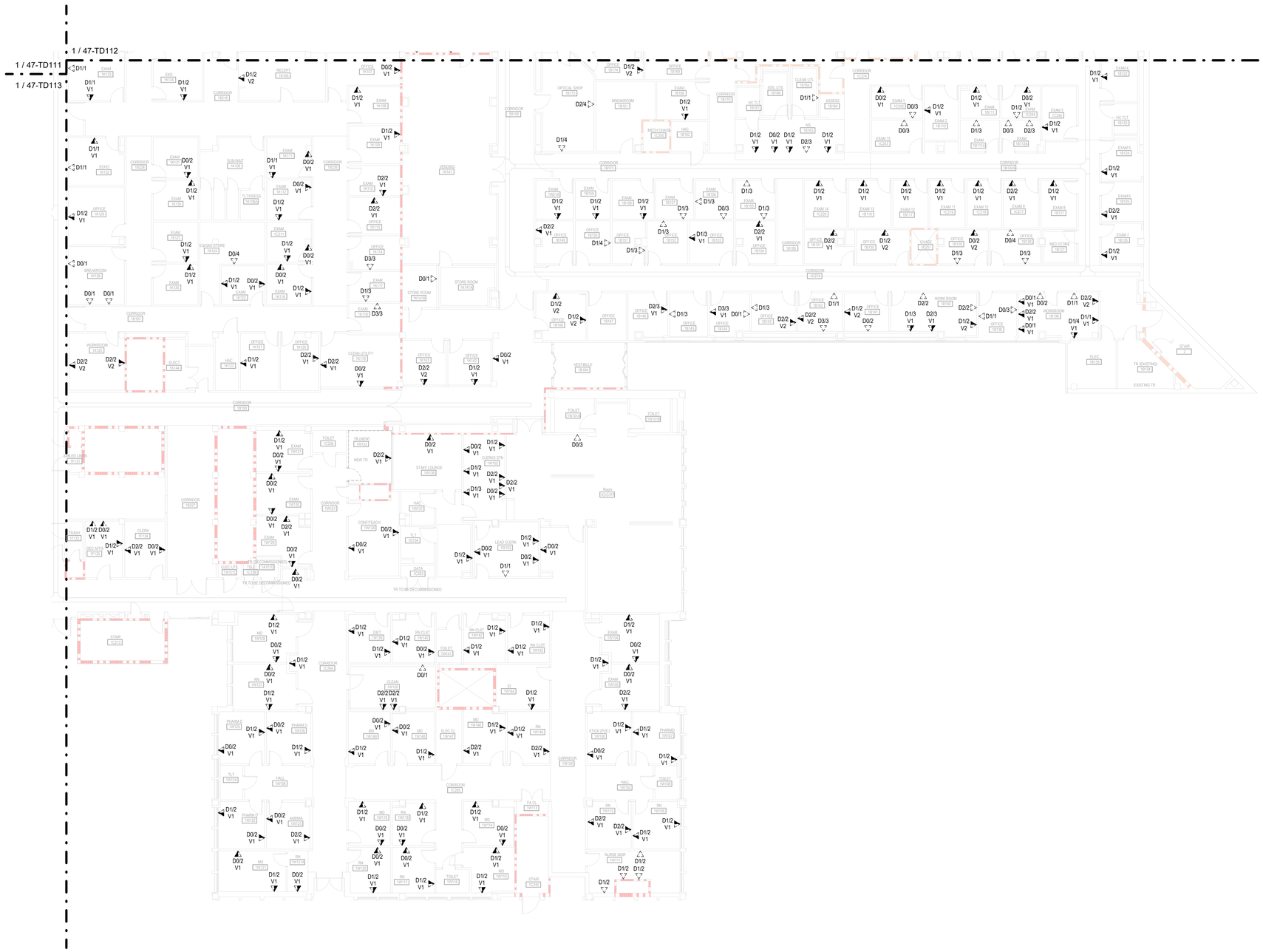

1 TELECOMMUNICATIONS 1ST FLOOR DEMOLITION - PART D
3/32" = 1'-0"

SHEET NOTES:

GENERAL NOTES:

1. REFER TO 00-T001 FOR GENERAL NOTES AND LEGENDS.
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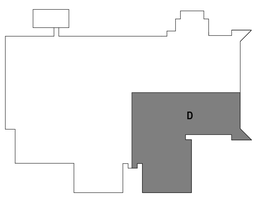
KEY PLAN



PLAN NORTH N

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

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 DEMOLITION - PART D	Phase: FINAL BID DOCUMENTS	Project Title: EHRM INFRASTRUCTURE UPGRADES	Project Number: 637-22-700
Approved:			Building Number: BLDG 47
		Location: 1100 TUNNEL ROAD ASHEVILLE, NC 28805	Drawing Number: 47-TD114
		Issue Date: 12.19.2025 / Checked: / Drawn:	SHEET OF 100

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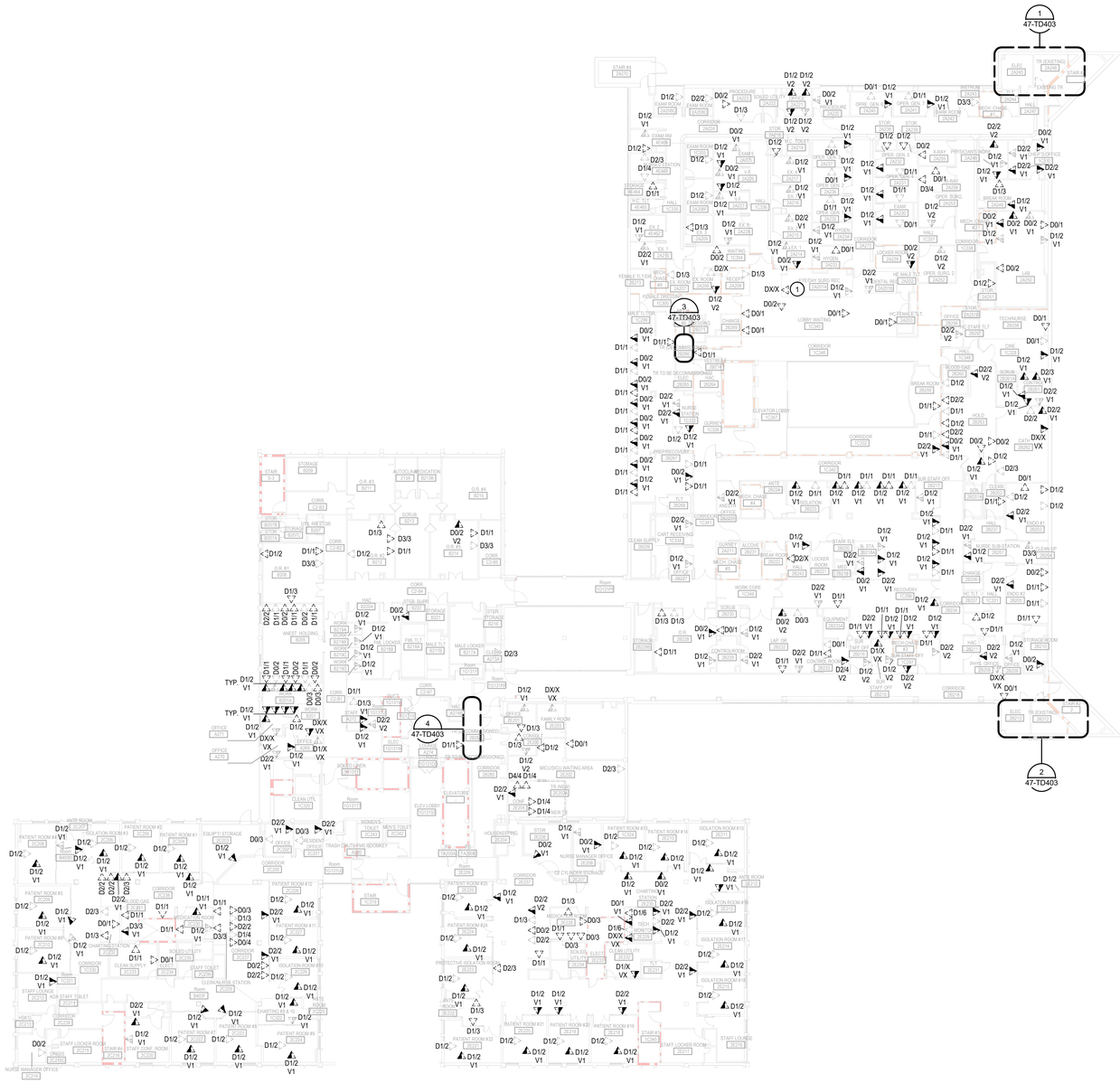

1 TELECOMMUNICATIONS 2ND FLOOR DEMOLITION - OVERALL
1" = 20'-0"

SHEET NOTES:

1. AN UNCLEAR AMOUNT OF DATA CABLING FEEDS THIS NURSES' WORKSTATION. FIVE (5) END-USER DEVICES WERE SPOTTED AT THE STATION HOWEVER NONE OF THEM ARE CONNECTED TO A WAO. THE DESK IS MOST LIKELY FED FROM DATA CABLING COMING FROM THE CEILING. CONTRACTOR TO REMOVE ALL DATA CABLING AND INSTALL NEW CAT6A CABLING AND WAOS ACCORDING TO SHEET 47-TN120. THESE PROVISIONS ARE UNDER COORDINATION.

GENERAL NOTES:

1. REFER TO 00-T001 FOR GENERAL NOTES AND LEGENDS.
2. ALL EXISTING CABLES AND INFRASTRUCTURE NOT CAT6A RATED TO BE DEMOLISHED.
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PLAN NORTH N

1" = 20'-0" SCALE 20 0 20 40 FEET

Revisions:	Date:

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BICSI ID # 237176
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12/18/2025

Facilities Management Services

VA U.S. Department of Veterans Affairs

Drawing Title: TELECOMMUNICATIONS 2ND FLOOR DEMOLITION - OVERALL

Approved:

FOR OFFICIAL USE ONLY

Phase: FINAL BID DOCUMENTS

Project Title: EHRM INFRASTRUCTURE UPGRADES

Project Number: 637-22-700

Building Number: BLDG 47

Location: 1100 TUNNEL ROAD ASHEVILLE, NC 28805

Issue Date: 12.19.2025

Checked:

Drawn:

Drawing Number: 47-TD120

SHEET OF 100

VA FORM 08 - 6231

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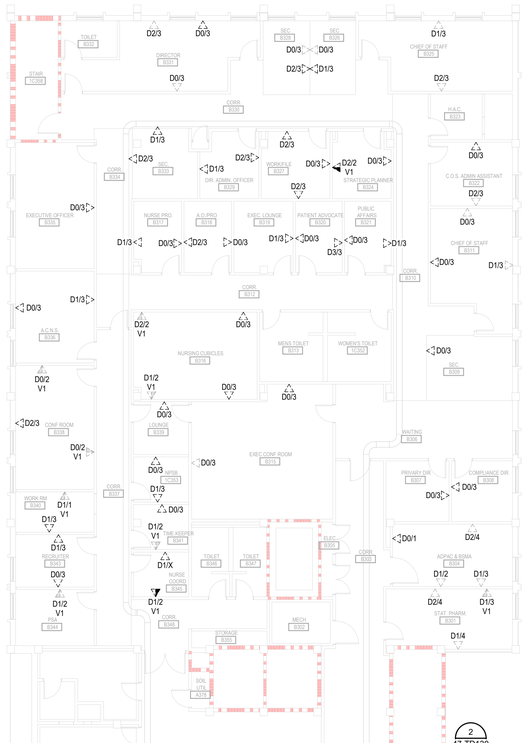
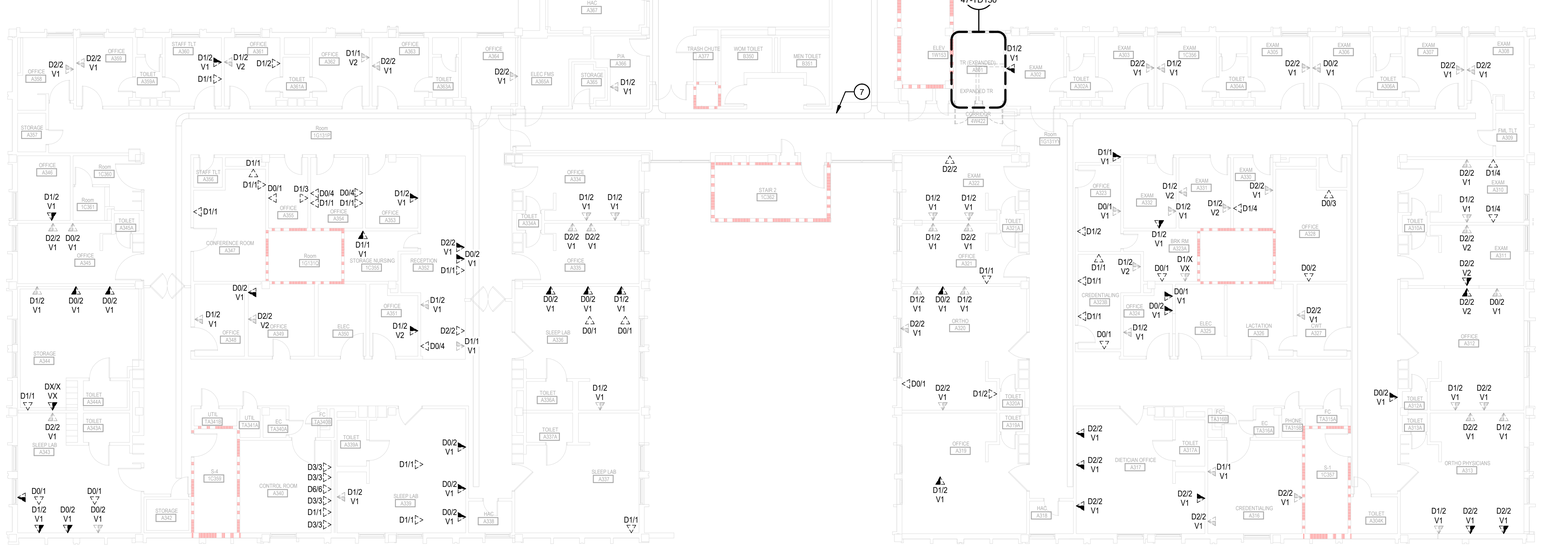
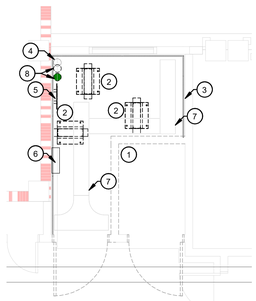




1 TELECOMMUNICATIONS 3RD FLOOR DEMOLITION

3/32" = 1'-0"



2 TELECOMMUNICATIONS 3RD FLOOR DEMOLITION - A301

1/4" = 1'-0"

SHEET NOTES:

1. WALL TO BE DEMOLISHED. REMOVE ALL TELECOMMUNICATION DEVICES, CABLING AND INFRASTRUCTURE BACK TO THE SOURCE.
2. EXISTING RACK TO BE DEMOLISHED. NON ELECTRONIC EQUIPMENT/DEVICES LOCATED ON EXISTING RACKS INCLUDING, BUT NOT LIMITED TO PATCH PANELS, HORIZONTAL WIRE MANAGEMENT, VERTICAL WIRE MANAGEMENT, AND FIBER PATCH PANELS SHALL BE DEMOLISHED. ELECTRONIC EQUIPMENT INCLUDING, BUT NOT LIMITED TO SWITCHES, UPS, AND POWER DISTRIBUTION UNITS SHALL BE TURNED OVER TO THE COR TO DETERMINE IF EQUIPMENT WILL BE REUSED OR DEMOLISHED UNDER THIS CONTRACT.
3. EXISTING PLYWOOD BACKBOARD TO REMAIN.
4. EXISTING 4" CONDUIT EXTENDING FROM THE 2ND FLOOR TO 5TH FLOOR. TO BE REUSED FOR NEW FIBER BACKBONE. ENSURE CONDUIT IS IN GOOD CONDITION FOR REUSE. IF IN GOOD CONDITION, CUT THE CONDUIT SO THAT IT TERMINATES 3" ABOVE THE GROUND OF THE 3RD FLOOR. IF CONDUIT IS NOT IN GOOD CONDITION, DEMOLISH THE ENTIRE CONDUIT. SEE SHEET NOTE 4 ON SHEETS 47-TD140 AND 47-TD150 FOR FURTHER DETAILS ON THIS CONDUIT.
5. EXISTING SBB TO BE DEMOLISHED. SBB MAY BE REUSED IF IT HAS SUFFICIENT BONDING SPACES, REFER TO 47-TN103 FOR NEW LOCATION.
6. EXISTING EQUIPMENT FOR POTS LINES TO REMAIN.
7. EXISTING LADDER RACK TO REMAIN (TYP).
8. EXISTING 4" CONDUIT TO BE DEMOLISHED.

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.

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

PLAN NORTH N

Revisions:	Date:

ARCHITECT/ENGINEER OF RECORD

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Facilities Management Services

VA U.S. Department of Veterans Affairs

Drawing Title: TELECOMMUNICATIONS 3RD FLOOR DEMOLITION	Phase: FINAL BID DOCUMENTS	Project Title: EHRM INFRASTRUCTURE UPGRADES	Project Number: 637-22-700
			Building Number: BLDG 47
Approved: FOR OFFICIAL USE ONLY		Location: 1100 TUNNEL ROAD ASHEVILLE, NC 28805	Drawing Number: 47-TD130
		Issue Date: 12.19.2025 / Checked / Drawn	SHEET OF 100

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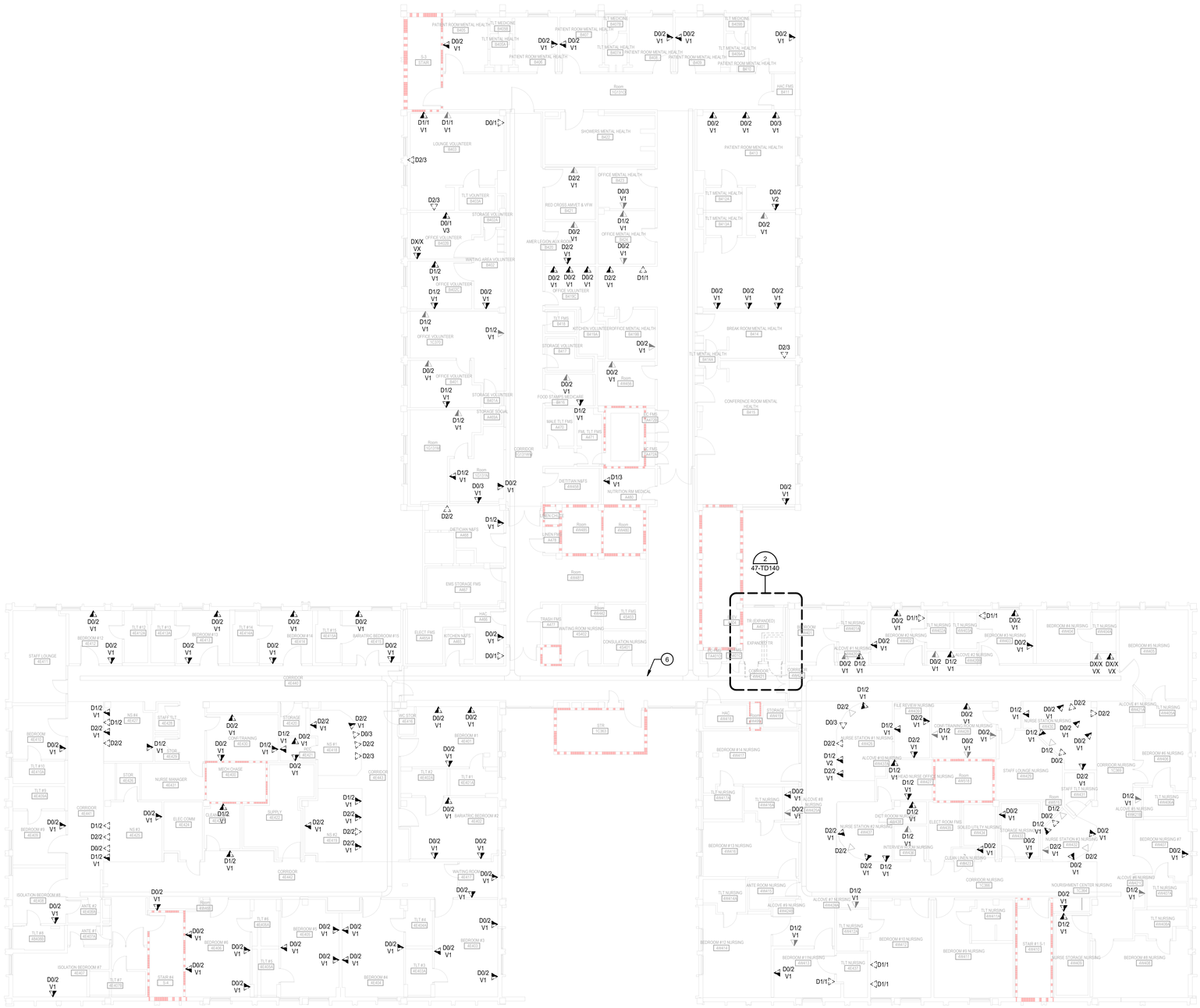


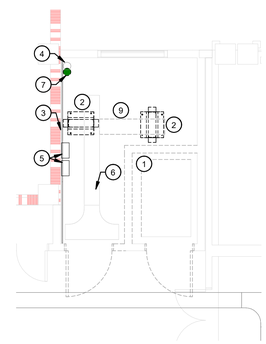
1 TELECOMMUNICATIONS 4TH FLOOR DEMOLITION
3/32" = 1'-0"

SHEET NOTES:

1. WALL TO BE DEMOLISHED. REMOVE ALL TELECOMMUNICATION DEVICES, CABLING AND INFRASTRUCTURE BACK TO THE SOURCE.
2. EXISTING RACK TO BE DEMOLISHED NON ELECTRONIC EQUIPMENT/DEVICES LOCATED ON EXISTING RACKS INCLUDING, BUT NOT LIMITED TO PATCH PANELS, HORIZONTAL WIRE MANAGEMENT, VERTICAL WIRE MANAGEMENT, AND FIBER PATCH PANELS SHALL BE DEMOLISHED. ELECTRONIC EQUIPMENT INCLUDING, BUT NOT LIMITED TO SWITCHES, UPS, AND POWER DISTRIBUTION UNITS SHALL BE TURNED OVER TO THE COR TO DETERMINE IF EQUIPMENT WILL BE REUSED OR DEMOLISHED UNDER THIS CONTRACT.
3. EXISTING PLYWOOD BACKBOARD TO REMAIN.
4. EXISTING 4" CONDUIT EXTENDING FROM THE 2ND FLOOR TO 5TH FLOOR. TO BE REUSED FOR NEW FIBER BACKBONE. ENSURE CONDUIT IS IN GOOD CONDITION FOR REUSE. IF IN GOOD CONDITION, CUT THE CONDUIT SO THAT IT TERMINATES 3" BELOW THE CEILING OF THE 3RD FLOOR AND 3" ABOVE THE GROUND OF THE 4TH FLOOR. IF CONDUIT IS NOT IN GOOD CONDITION, DEMOLISH THE ENTIRE CONDUIT. SEE SHEET NOTE 4 ON SHEETS 47-TD130 AND 47-TD150 FOR FURTHER DETAILS ON THIS CONDUIT.
5. EXISTING EQUIPMENT FOR POTS LINES TO REMAIN.
6. EXISTING LADDER RACK TO REMAIN (TYP).
7. EXISTING 4" CONDUIT TO BE DEMOLISHED.

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.
9. EXISTING WIRE MESH CABLE TO BE DEMOLISHED.



2 TELECOMMUNICATIONS 4TH FLOOR DEMOLITION - A401
1/4" = 1'-0"

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

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

PLAN NORTH N

Revisions:	Date:

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Facilities Management Services

VA U.S. Department of Veterans Affairs

Drawing Title: TELECOMMUNICATIONS 4TH 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 47

Drawing Number: 47-TD140

SHEET OF 100

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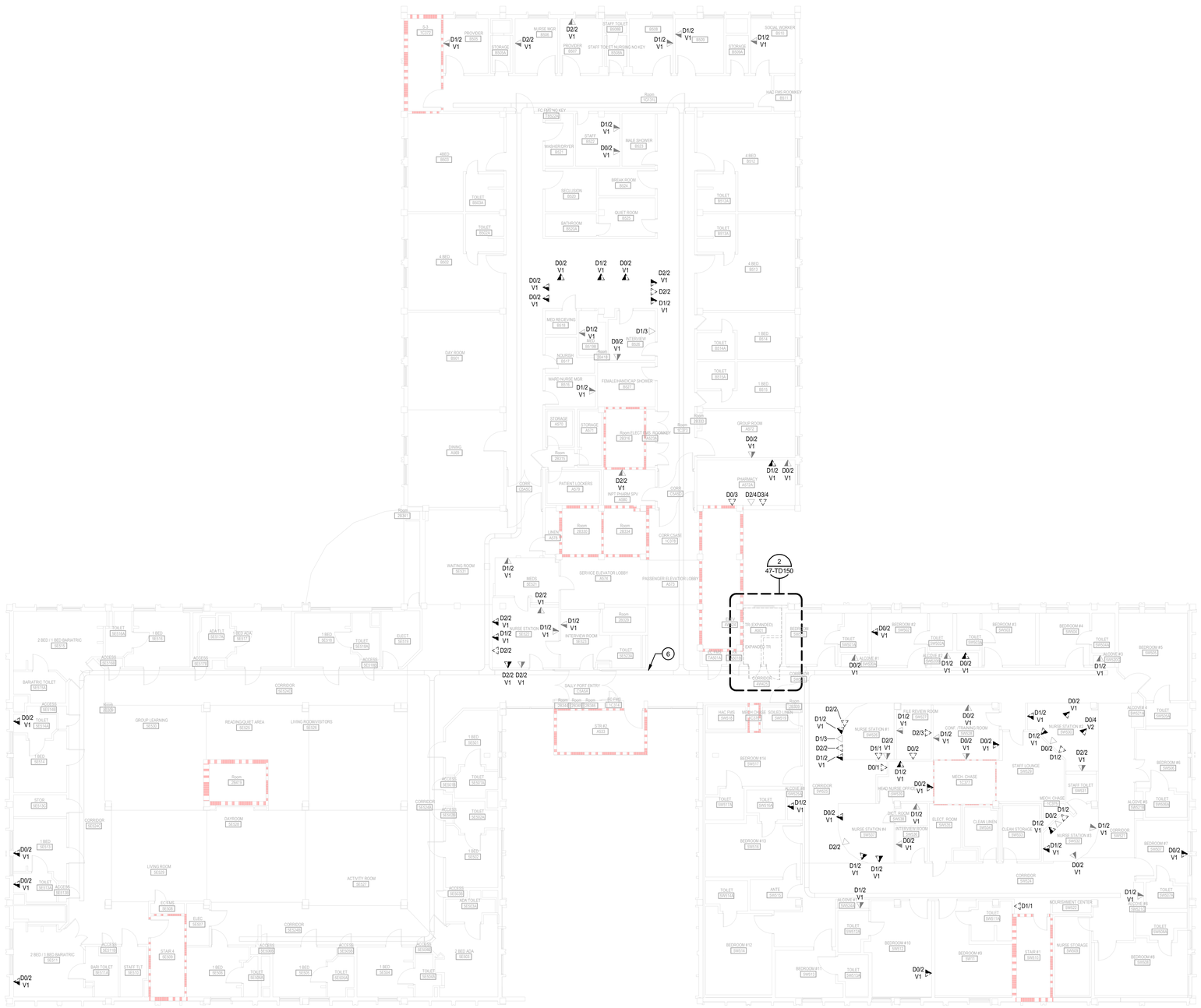
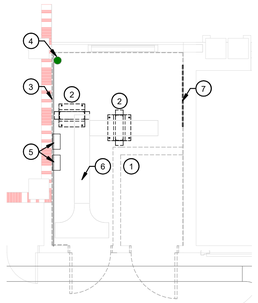


1 TELECOMMUNICATIONS 5TH FLOOR DEMOLITION
3/32" = 1'-0"



2 TELECOMMUNICATIONS 5TH FLOOR DEMOLITION - A501
1/4" = 1'-0"

SHEET NOTES:

1. WALL TO BE DEMOLISHED. REMOVE ALL TELECOMMUNICATION DEVICES, CABLING AND INFRASTRUCTURE BACK TO THE SOURCE.
2. EXISTING RACK TO BE DEMOLISHED, NON ELECTRONIC EQUIPMENT/DEVICES LOCATED ON EXISTING RACKS INCLUDING, BUT NOT LIMITED TO PATCH PANELS, HORIZONTAL WIRE MANAGEMENT, VERTICAL WIRE MANAGEMENT, AND FIBER PATCH PANELS SHALL BE DEMOLISHED. ELECTRONIC EQUIPMENT INCLUDING, BUT NOT LIMITED TO SWITCHES, UPS, AND POWER DISTRIBUTION UNITS SHALL BE TURNED OVER TO THE COR TO DETERMINE IF EQUIPMENT WILL BE REUSED OR DEMOLISHED UNDER THIS CONTRACT.
3. EXISTING PLYWOOD BACKBOARD TO REMAIN.
4. EXISTING 4" CONDUIT EXTENDING FROM THE 2ND FLOOR TO 5TH FLOOR. TO BE REUSED FOR NEW FIBER BACKBONE. ENSURE CONDUIT IS IN GOOD CONDITION FOR REUSE. IF IN GOOD CONDITION, CUT THE CONDUIT SO THAT IT TERMINATES 3" BELOW THE CEILING OF THE 4TH FLOOR AND 3" ABOVE THE GROUND OF THE 5TH FLOOR. IF CONDUIT IS NOT IN GOOD CONDITION, DEMOLISH THE ENTIRE CONDUIT. SEE SHEET NOTE 4 ON SHEETS 47-TD130 AND 47-TD140 FOR FURTHER DETAILS ON THIS CONDUIT.
5. EXISTING EQUIPMENT FOR POTS LINES TO REMAIN.
6. EXISTING LADDER RACK TO REMAIN (TYP).
7. EXISTING PLYWOOD BACKBOARD TO BE DEMOLISHED.

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.
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   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.
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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.

PLAN NORTH N

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

Revisions:	Date:

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VA U.S. Department of Veterans Affairs

Drawing Title: TELECOMMUNICATIONS 5TH FLOOR DEMOLITION	Phase: FINAL BID DOCUMENTS	Project Title: EHRM INFRASTRUCTURE UPGRADES	Project Number: 637-22-700
Approved:			Building Number: BLDG 47
FOR OFFICIAL USE ONLY		Location: 1100 TUNNEL ROAD, ASHEVILLE, NC 28805	Drawing Number: 47-TD150
		Issue Date: 12.19.2025 / Checked / Drawn	SHEET OF 100

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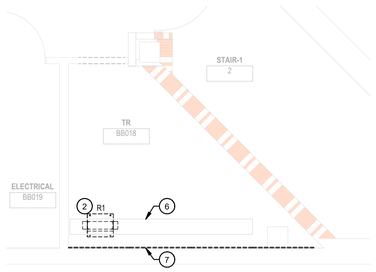
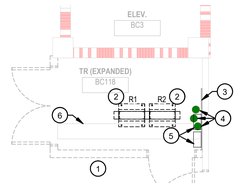
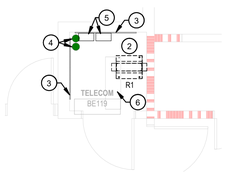


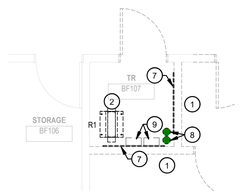
1 BB018 - TELECOMMUNICATIONS DEMOLITION PLAN
1/4" = 1'-0"



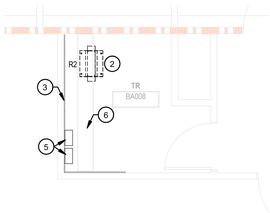
2 BC118 - TELECOMMUNICATIONS DEMOLITION PLAN
1/4" = 1'-0"



3 BE119 - TELECOMMUNICATIONS DEMOLITION PLAN
1/4" = 1'-0"



4 BF107 - TELECOMMUNICATIONS DEMOLITION PLAN
1/4" = 1'-0"



5 BA008 - TELECOMMUNICATIONS DEMOLITION PLAN
1/4" = 1'-0"

SHEET NOTES:

1. WALL TO BE DEMOLISHED. REMOVE ALL TELECOMMUNICATION DEVICES, CABLING AND INFRASTRUCTURE BACK TO THE SOURCE.
2. EXISTING RACK TO BE DEMOLISHED, NON ELECTRONIC EQUIPMENT/DEVICES LOCATED ON EXISTING RACKS INCLUDING, BUT NOT LIMITED TO PATCH PANELS, HORIZONTAL WIRE MANAGEMENT, VERTICAL WIRE MANAGEMENT, AND FIBER PATCH PANELS SHALL BE DEMOLISHED. ELECTRONIC EQUIPMENT INCLUDING, BUT NOT LIMITED TO SWITCHES, UPS, AND POWER DISTRIBUTION UNITS SHALL BE TURNED OVER TO THE COR TO DETERMINE IF EQUIPMENT WILL BE REUSED OR DEMOLISHED UNDER THIS CONTRACT.
3. EXISTING PLYWOOD BACKBOARD TO REMAIN.
4. EXISTING CONDUIT TO REMAIN.
5. EXISTING EQUIPMENT FOR POTS LINES TO REMAIN.
6. EXISTING CABLE TRAY TO REMAIN.
7. EXISTING PLYWOOD BACKBOARD TO BE DEMOLISHED.
8. EXISTING CONDUIT FOR POTS LINES TO BE RELOCATED. DISCONNECT POTS LINE IN CONDUIT. SEE 47-TN400 FOR NEW LOCATION.
9. EXISTING EQUIPMENT FOR POTS LINES TO BE RELOCATED. SEE 47-TN400 FOR NEW LOCATION.

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.

PLAN NORTH N

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

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Expires 12-31-28
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Facilities Management Services

VA U.S. Department of Veterans Affairs

Drawing Title: TELECOMMUNICATIONS ENLARGED BASEMENT DEMOLITION

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 47

Drawing Number: 47-TD400

SHEET OF 100

12/18/2025 5:58:54 PM

Autodesk Docs://Asheville EHRM_V23/637-22-700 047 E ASH - EHRM.rvt

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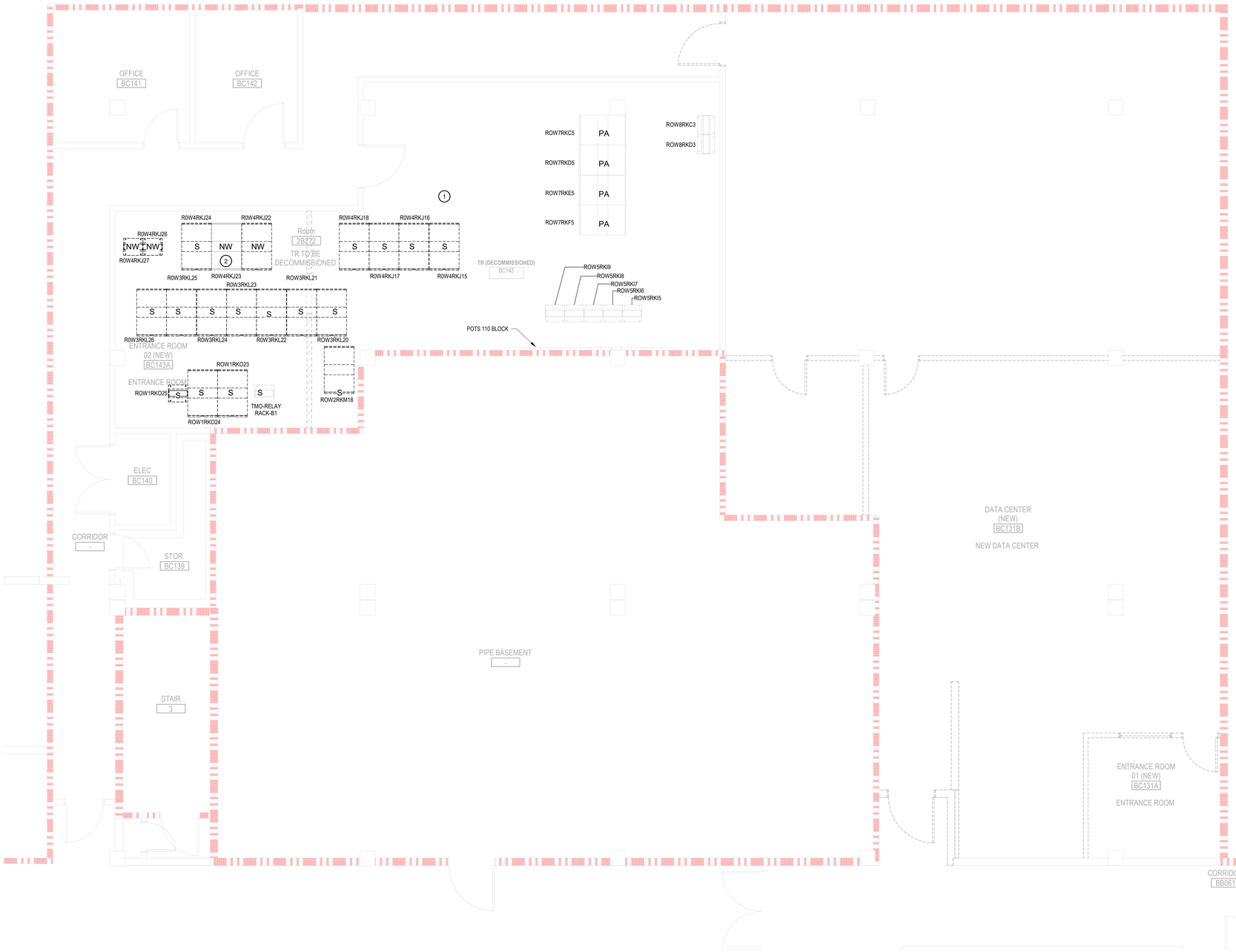

1 TELECOMMUNICATIONS DEMOLITION DATA CENTER

1/4" = 1'-0"

SHEET NOTES:

1. REMOVE ALL EXISTING CABLE TRAY FOR SERVERS AND NETWORK CABINETS.
2. RACK CONTAINING THE DEMARC LOCATION FOR BOTH CL AND AT&T ISPS TO REMAIN. IF FEASIBLE, COORDINATE WITH VA COR AND EACH INDIVIDUAL INTERNET SERVICE PROVIDERS FOR ISP DEMARC LOCATIONS.

GENERAL NOTES:

1. LIGHT LINEWEIGHT INDICATES EXISTING TO REMAIN, HEAVY DASHED LINEWEIGHT INDICATES EQUIPMENT TO BE DEMOLISHED.
2. EXISTING SERVER AND NETWORK CABINETS TO BE DEMOLISHED.
3. EXISTING EQUIPMENT IN THE SERVER AND NETWORK CABINETS TO BE DECOMMISSIONED. COORDINATE WITH VA FOR THE EQUIPMENT TURNOVER.
4. EXISTING DATA CENTER EQUIPMENT LABELS ARE AS FOLLOWS:
   S - SERVER RACK/CABINET
   NW - NETWORK RACK/CABINET
   PA - PUBLIC ADDRESS (NOT IN SCOPE)
5. REFER TO DRAWING GC-101 AND SPECIFICATION 01 00 00 FOR PHASING INFORMATION.

EXISTING DATA CENTER CABINET REFERENCE

EXISTING CABINET #	LOCATION	SYSTEM OWNER	CABINET TYPE
ROW4RKJ15 CABINET	EXISTING DATA CENTER - BC143	BIOMED AND VOIP	SERVER
ROW4RKJ16 CABINET	EXISTING DATA CENTER - BC143	BIOMED	SERVER
ROW4RKJ17 CABINET	EXISTING DATA CENTER - BC143	BIOMED AND PHARMA AUDIO	SERVER
ROW4RKJ18 CABINET	EXISTING DATA CENTER - BC143	UNKNOWN	SERVER
ROW4RKJ22 CABINET	EXISTING DATA CENTER - BC143	VA	NETWORK
ROW4RKJ23 CABINET	EXISTING DATA CENTER - BC143	VA	NETWORK
ROW4RKJ24 CABINET	EXISTING DATA CENTER - BC143	VA	SERVER
ROW4RKJ26 RACK	EXISTING DATA CENTER - BC143	VA	NETWORK
ROW4RKJ27 RACK	EXISTING DATA CENTER - BC143	VA	NETWORK
ROW3RKL20 CABINET	EXISTING DATA CENTER - BC143	UNKNOWN	SERVER
ROW3RKL21 CABINET	EXISTING DATA CENTER - BC143	UNKNOWN	SERVER
ROW3RKL22 CABINET	EXISTING DATA CENTER - BC143	IMAGING	SERVER
ROW3RKL23 CABINET	EXISTING DATA CENTER - BC143	IMAGING	SERVER
ROW3RKL24 CABINET	EXISTING DATA CENTER - BC143	IMAGING	SERVER
ROW3RKL25 CABINET	EXISTING DATA CENTER - BC143	IMAGING	SERVER
ROW3RKL26 CABINET	EXISTING DATA CENTER - BC143	UNKNOWN	SERVER
TMO-RELAY RACK-B1	EXISTING DATA CENTER - BC143	N/A	SERVER
ROW1RKO23 CABINET	EXISTING DATA CENTER - BC143	BIOMED	SERVER
ROW1RKO24 CABINET	EXISTING DATA CENTER - BC143	BIOMED	SERVER
ROW1RKO25 RACK	EXISTING DATA CENTER - BC143	BIOMED	SERVER
ROW2RKM18 CABINET	EXISTING DATA CENTER - BC143	UNKNOWN	SERVER
BIOMED 1 CABINET	EXISTING BIOMED DATA CENTER - 1D144	BIOMED	SERVER
BIOMED 2 CABINET	EXISTING BIOMED DATA CENTER - 1D144	BIOMED	SERVER
BIOMED 3 CABINET	EXISTING BIOMED DATA CENTER - 1D144	BIOMED	SERVER
BIOMED 4 CABINET	EXISTING BIOMED DATA CENTER - 1D144	BIOMED	SERVER
BIOMED 5 CABINET	EXISTING BIOMED DATA CENTER - 1D144	BIOMED	SERVER
NURSE CALL CABINET	EXISTING TELECOM ROOM - 2B286	UNKNOWN	SERVER
BMS CABINET	CORRIDOR - BC-A	UNKNOWN	SERVER

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: TELECOMMUNICATIONS ENLARGED DEMOLITION - DATA CENTER

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 47

Drawing Number: 47-TD401

SHEET OF 100

VA FORM 08 - 6231

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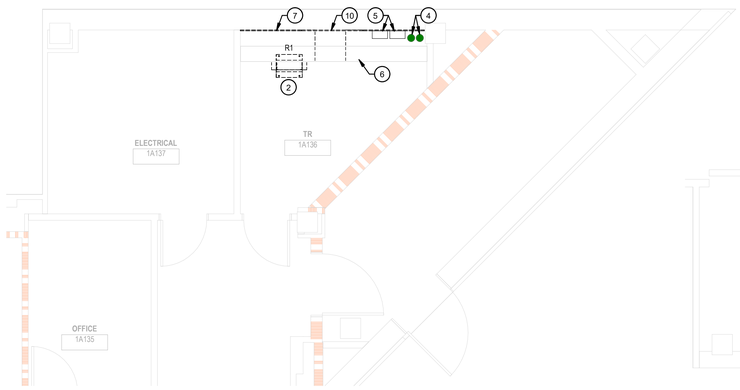
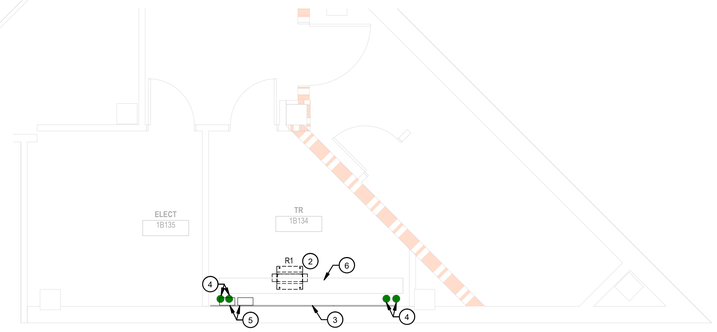
Autodesk Docs://Asheville EHRM, V23/637-22-700.047 E-ASH - EHRM.rvt



1 1A136 - TELECOMMUNICATION DEMOLITION PLAN
1/4" = 1'-0"



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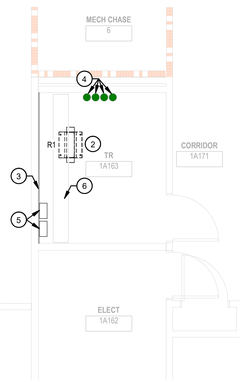
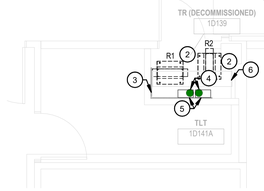
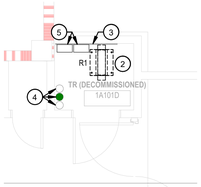


3 1A163 - TELECOMMUNICATIONS DEMOLITION PLAN
1/4" = 1'-0"



4 1D139 - TELECOMMUNICATIONS DEMOLITION PLAN
1/4" = 1'-0"



5 1A101D - TELECOMMUNICATIONS DEMOLITION PLAN
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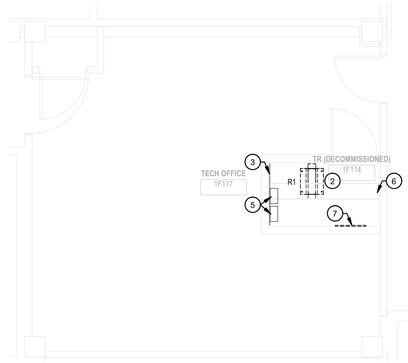
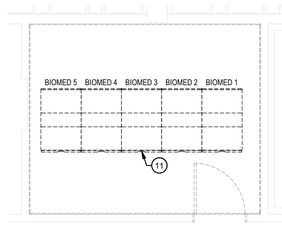
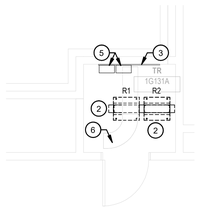


6 1F114 - TELECOMMUNICATIONS DEMOLITION PLAN
1/4" = 1'-0"



7 1D144 - TELECOMMUNICATIONS 1ST FLOOR DEMOLITION
1/4" = 1'-0"



8 1G131A - TELECOMMUNICATIONS DEMOLITION PLAN
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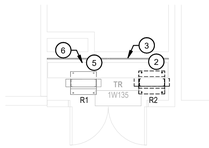
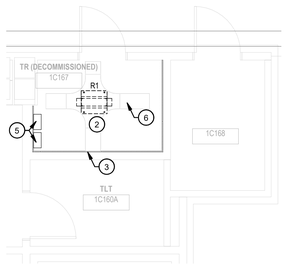


9 1W135 - TELECOMMUNICATIONS DEMOLITION PLAN
1/4" = 1'-0"



10 1C167 - TELECOMMUNICATIONS 1ST FLOOR DEMOLITION PLAN
1/4" = 1'-0"

SHEET NOTES:

1. WALL TO BE DEMOLISHED. REMOVE ALL TELECOMMUNICATION DEVICES, CABLING AND INFRASTRUCTURE BACK TO THE SOURCE.
2. EXISTING RACK TO BE DEMOLISHED. NON ELECTRONIC EQUIPMENT/DEVICES LOCATED ON EXISTING RACKS INCLUDING, BUT NOT LIMITED TO PATCH PANELS, HORIZONTAL WIRE MANAGEMENT, VERTICAL WIRE MANAGEMENT, AND FIBER PATCH PANELS SHALL BE DEMOLISHED. ELECTRONIC EQUIPMENT INCLUDING, BUT NOT LIMITED TO SWITCHES, UPS, AND POWER DISTRIBUTION UNITS SHALL BE TURNED OVER TO THE COR TO DETERMINE IF EQUIPMENT WILL BE REUSED OR DEMOLISHED UNDER THIS CONTRACT.
3. EXISTING PLYWOOD BACKBOARD TO REMAIN.
4. EXISTING CONDUIT TO REMAIN.
5. EXISTING EQUIPMENT FOR POTS LINES TO REMAIN.
6. EXISTING CABLE TRAY TO REMAIN.
7. EXISTING PLYWOOD BACKBOARD TO BE DEMOLISHED.
8. EXISTING CONDUIT FOR POTS LINES TO BE RELOCATED. DISCONNECT POTS LINE IN CONDUIT. SEE 47-TN400 FOR NEW LOCATION.
9. EXISTING EQUIPMENT FOR POTS LINES TO BE RELOCATED. SEE 47-TN400 FOR NEW LOCATION.
10. EXISTING WALL MOUNTED RACK TO BE DEMOLISHED.
11. EXISTING SERVER CABINETS TO BE DEMOLISHED. EXISTING EQUIPMENT IN THE SERVER CABINETS TO BE DECOMMISSIONED. COORDINATE WITH VA FOR THE EQUIPMENT TURNOVER (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.

EXISTING DATA CENTER CABINET REFERENCE

EXISTING CABINET #	LOCATION	SYSTEM OWNER	CABINET TYPE
ROW4RKJ15 CABINET	EXISTING DATA CENTER - BC143	BIOMED AND VOIP	SERVER
ROW4RKJ16 CABINET	EXISTING DATA CENTER - BC143	BIOMED	SERVER
ROW4RKJ17 CABINET	EXISTING DATA CENTER - BC143	BIOMED AND PHARMA AUDIO	SERVER
ROW4RKJ18 CABINET	EXISTING DATA CENTER - BC143	UNKNOWN	SERVER
ROW4RKJ22 CABINET	EXISTING DATA CENTER - BC143	VA	NETWORK
ROW4RKJ23 CABINET	EXISTING DATA CENTER - BC143	VA	NETWORK
ROW4RKJ24 CABINET	EXISTING DATA CENTER - BC143	VA	SERVER
ROW4RKJ26 RACK	EXISTING DATA CENTER - BC143	VA	NETWORK
ROW4RKJ27 RACK	EXISTING DATA CENTER - BC143	VA	NETWORK
ROW3RKL20 CABINET	EXISTING DATA CENTER - BC143	UNKNOWN	SERVER
ROW3RKL21 CABINET	EXISTING DATA CENTER - BC143	UNKNOWN	SERVER
ROW3RKL22 CABINET	EXISTING DATA CENTER - BC143	IMAGING	SERVER
ROW3RKL23 CABINET	EXISTING DATA CENTER - BC143	IMAGING	SERVER
ROW3RKL24 CABINET	EXISTING DATA CENTER - BC143	IMAGING	SERVER
ROW3RKL25 CABINET	EXISTING DATA CENTER - BC143	IMAGING	SERVER
ROW3RKL26 CABINET	EXISTING DATA CENTER - BC143	UNKNOWN	SERVER
TMO-RELAY RACK-B1	EXISTING DATA CENTER - BC143	N/A	SERVER
ROW1RKO23 CABINET	EXISTING DATA CENTER - BC143	BIOMED	SERVER
ROW1RKO24 CABINET	EXISTING DATA CENTER - BC143	BIOMED	SERVER
ROW1RKO25 RACK	EXISTING DATA CENTER - BC143	BIOMED	SERVER
ROW2RKM18 CABINET	EXISTING DATA CENTER - BC143	UNKNOWN	SERVER
BIOMED 1 CABINET	EXISTING BIOMED DATA CENTER - 1D144	BIOMED	SERVER
BIOMED 2 CABINET	EXISTING BIOMED DATA CENTER - 1D144	BIOMED	SERVER
BIOMED 3 CABINET	EXISTING BIOMED DATA CENTER - 1D144	BIOMED	SERVER
BIOMED 4 CABINET	EXISTING BIOMED DATA CENTER - 1D144	BIOMED	SERVER
BIOMED 5 CABINET	EXISTING BIOMED DATA CENTER - 1D144	BIOMED	SERVER
NURSE CALL CABINET	EXISTING TELECOM ROOM - 2B286	UNKNOWN	SERVER
BMS CABINET	CORRIDOR - BC-A	UNKNOWN	SERVER

PLAN NORTH N

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

Revisions:	Date:

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12/18/2025

Facilities Management Services

VA U.S. Department of Veterans Affairs

Drawing Title: TELECOMMUNICATIONS ENLARGED 1ST FLOOR DEMOLITION

Phase: FINAL BID DOCUMENTS

Project Title: EHRM INFRASTRUCTURE UPGRADES

Project Number: 637-22-700

Building Number: BLDG 47

Approved:

FOR OFFICIAL USE ONLY

Location: 1100 TUNNEL ROAD ASHEVILLE, NC 28805

Issue Date: 12.19.2025

Checked

Drawn

Drawing Number: 47-TD402

SHEET OF 100

VA FORM 08 - 6231

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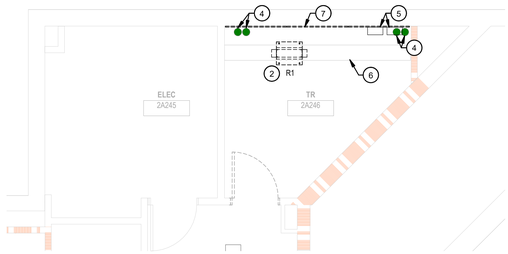
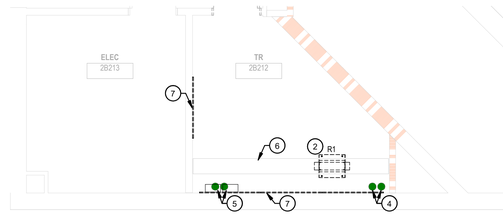
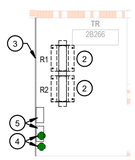


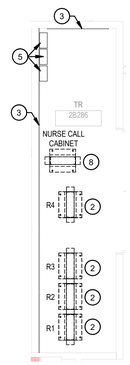
1 2A246 - TELECOMMUNICATIONS DEMOLITION PLAN
1/4" = 1'-0"



2 2B212 - TELECOMMUNICATIONS DEMOLITION PLAN
1/4" = 1'-0"



3 TELECOMMUNICATIONS 2ND FLOOR DEMOLITION - 2B266
1/4" = 1'-0"



4 TELECOMMUNICATIONS 2ND FLOOR DEMOLITION - 2B286
1/4" = 1'-0"

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 REMAIN.
4. EXISTING CONDUIT TO REMAIN.
5. EXISTING EQUIPMENT FOR POTS LINES TO REMAIN.
6. EXISTING CABLE TRAY TO REMAIN.
7. EXISTING PLYWOOD BACKBOARD TO BE DEMOLISHED.
8. EXISTING RACK FOR NURSE CALL SYSTEM. INTENT IS TO PROVIDE AN IDENTICAL SYSTEM IN THE NEW DATA CENTER PRIOR TO DEMOLITION. COORDINATE WITH VA COR PRIOR TO CONSTRUCTION.

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.

EXISTING DATA CENTER CABINET REFERENCE

EXISTING CABINET #	LOCATION	SYSTEM OWNER	CABINET TYPE
ROW4RKJ15 CABINET	EXISTING DATA CENTER - BC143	BIOMED AND VOIP	SERVER
ROW4RKJ16 CABINET	EXISTING DATA CENTER - BC143	BIOMED	SERVER
ROW4RKJ17 CABINET	EXISTING DATA CENTER - BC143	BIOMED AND PHARMA AUDIO	SERVER
ROW4RKJ18 CABINET	EXISTING DATA CENTER - BC143	UNKNOWN	SERVER
ROW4RKJ22 CABINET	EXISTING DATA CENTER - BC143	VA	NETWORK
ROW4RKJ23 CABINET	EXISTING DATA CENTER - BC143	VA	NETWORK
ROW4RKJ24 CABINET	EXISTING DATA CENTER - BC143	VA	SERVER
ROW4RKJ26 RACK	EXISTING DATA CENTER - BC143	VA	NETWORK
ROW4RKJ27 RACK	EXISTING DATA CENTER - BC143	VA	NETWORK
ROW3RKL20 CABINET	EXISTING DATA CENTER - BC143	UNKNOWN	SERVER
ROW3RKL21 CABINET	EXISTING DATA CENTER - BC143	UNKNOWN	SERVER
ROW3RKL22 CABINET	EXISTING DATA CENTER - BC143	IMAGING	SERVER
ROW3RKL23 CABINET	EXISTING DATA CENTER - BC143	IMAGING	SERVER
ROW3RKL24 CABINET	EXISTING DATA CENTER - BC143	IMAGING	SERVER
ROW3RKL25 CABINET	EXISTING DATA CENTER - BC143	IMAGING	SERVER
ROW3RKL26 CABINET	EXISTING DATA CENTER - BC143	UNKNOWN	SERVER
TMO-RELAY RACK-B1	EXISTING DATA CENTER - BC143	N/A	SERVER
ROW1RKO23 CABINET	EXISTING DATA CENTER - BC143	BIOMED	SERVER
ROW1RKO24 CABINET	EXISTING DATA CENTER - BC143	BIOMED	SERVER
ROW1RKO25 RACK	EXISTING DATA CENTER - BC143	BIOMED	SERVER
ROW2RKM18 CABINET	EXISTING DATA CENTER - BC143	UNKNOWN	SERVER
BIOMED 1 CABINET	EXISTING BIOMED DATA CENTER - 1D144	BIOMED	SERVER
BIOMED 2 CABINET	EXISTING BIOMED DATA CENTER - 1D144	BIOMED	SERVER
BIOMED 3 CABINET	EXISTING BIOMED DATA CENTER - 1D144	BIOMED	SERVER
BIOMED 4 CABINET	EXISTING BIOMED DATA CENTER - 1D144	BIOMED	SERVER
BIOMED 5 CABINET	EXISTING BIOMED DATA CENTER - 1D144	BIOMED	SERVER
NURSE CALL CABINET	EXISTING TELECOM ROOM - 2B286	UNKNOWN	SERVER
BMS CABINET	CORRIDOR - BC-A	UNKNOWN	SERVER

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: TELECOMMUNICATIONS ENLARGED 2ND FLOOR DEMOLITION

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 47

Drawing Number: 47-TD403

SHEET OF 100

VA FORM 08 - 6231

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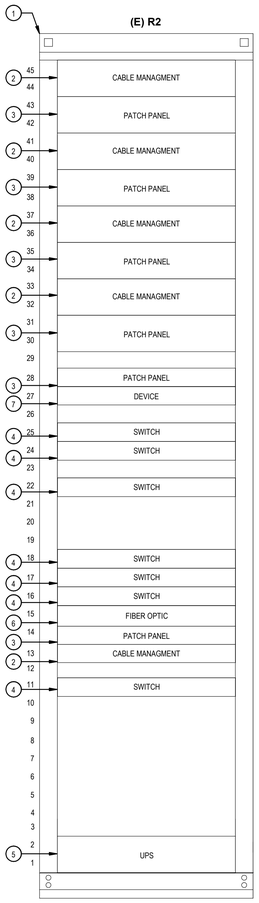
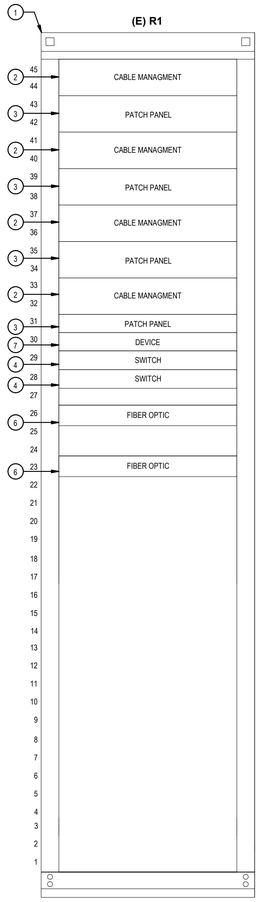


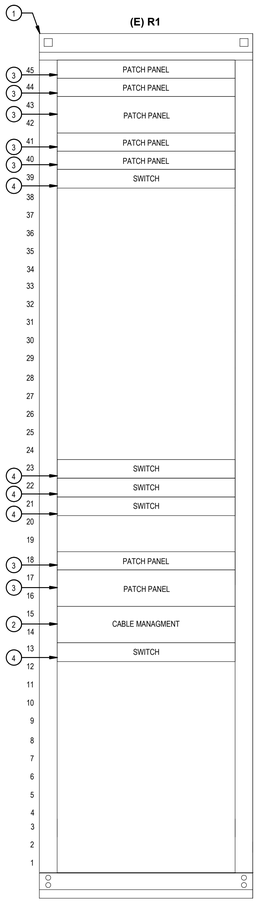
HORIZONTAL CABLES	164
PATCH CORD	109
TOTAL PORTS	(48 x 8) + (24 x 2) = 432

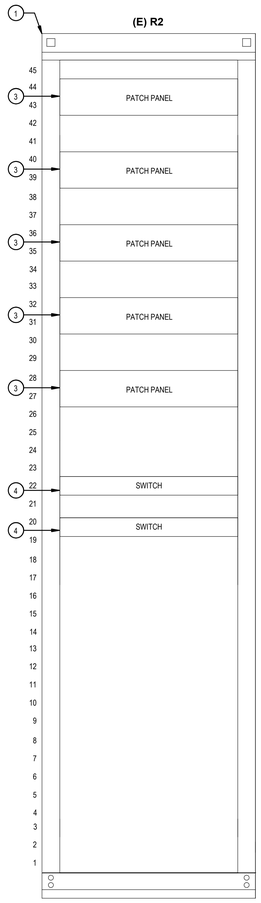
1 (E) ROOM BA008 RACK ELEVATION
N.T.S.



HORIZONTAL CABLES	132
PATCH CORD	79
TOTAL PORTS	(48 x 3) + (24 x 1) = 168

2 (E) ROOM BB018 RACK ELEVATION
N.T.S.





HORIZONTAL CABLES	249
PATCH CORD	68
TOTAL PORTS	(48 x 7) + (24 x 5) = 456

3 (E) ROOM BC118 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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Facilities Management Services

VA U.S. Department of Veterans Affairs

Drawing Title: EXISTING TELECOMMUNICATIONS RACK ELEVATIONS

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 47

Drawing Number: 47-TD601

SHEET OF 100

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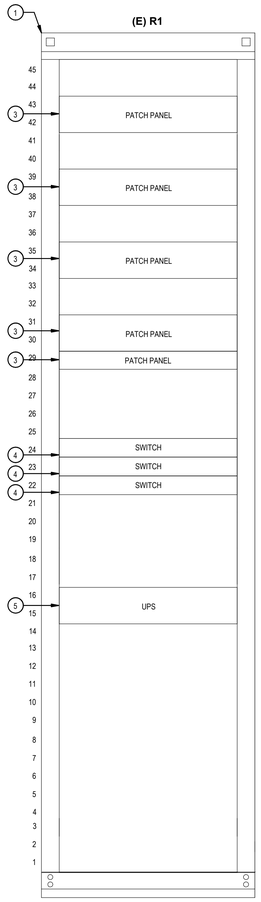
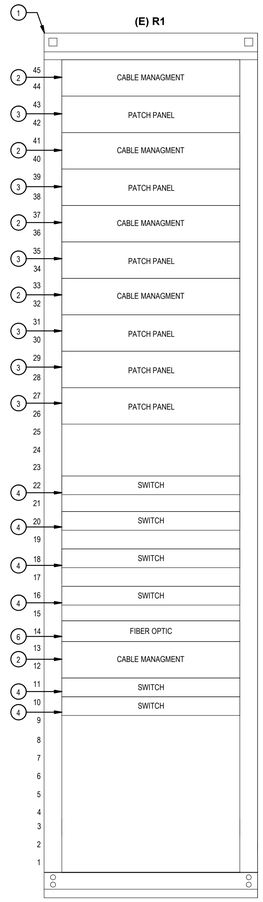


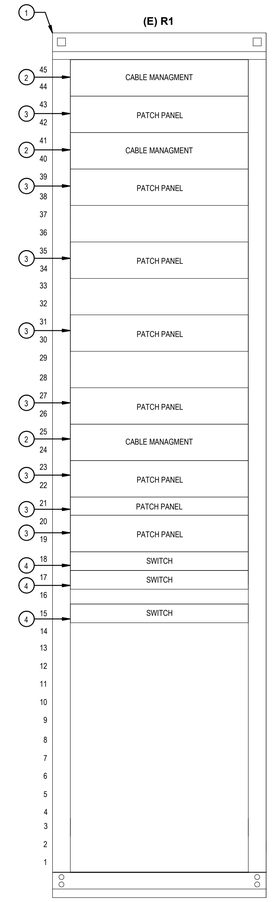
HORIZONTAL CABLES	214
PATCH CORD	145
TOTAL PORTS	(48 x 4) + (24 x 1) = 216

1 (E) ROOM BE119 RACK ELEVATION
N.T.S.



HORIZONTAL CABLES	169
PATCH CORD	157
TOTAL PORTS	(48 x 6) = 288

2 (E) ROOM BF107 RACK ELEVATION
N.T.S.



HORIZONTAL CABLES	68
PATCH CORD	53
TOTAL PORTS	(48 x 7) + (24 x 1) = 360

3 (E) ROOM 1A101D 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:

ARCHITECT/ENGINEER OF RECORD

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Drawing Title: EXISTING TELECOMMUNICATIONS RACK ELEVATIONS	Phase: FINAL BID DOCUMENTS	Project Title: EHRM INFRASTRUCTURE UPGRADES	Project Number: 637-22-700
Approved:			Building Number: BLDG 47
		Location: 1100 TUNNEL ROAD ASHEVILLE, NC 28805	Drawing Number: 47-TD602
		Issue Date: 12.19.2025 / Checked / Drawn	SHEET OF 100

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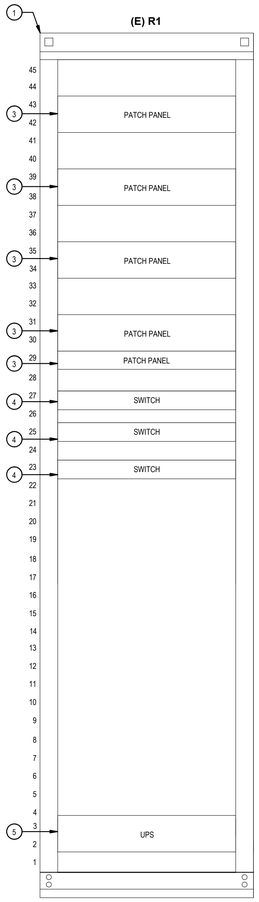
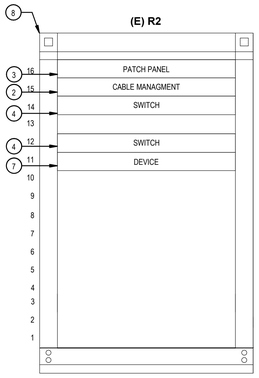
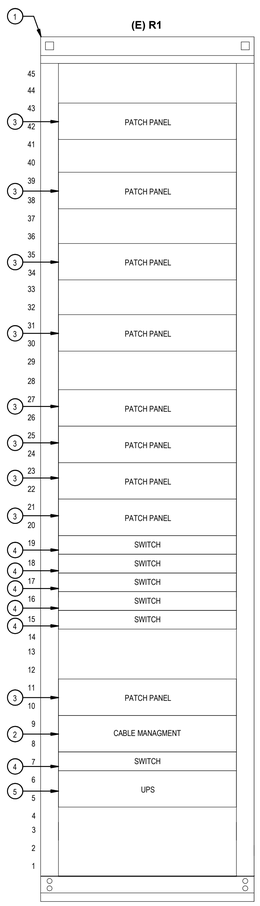


HORIZONTAL CABLES	201
PATCH CORD	94
TOTAL PORTS	(48 x 4) + (24 x 2) = 240

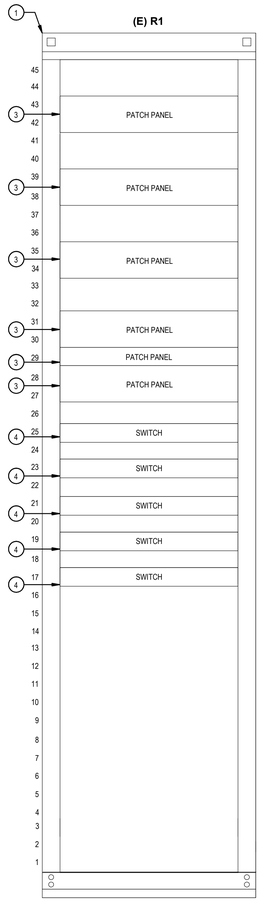
1 (E) ROOM 1A136 RACK ELEVATION
N.T.S.





HORIZONTAL CABLES	383
PATCH CORD	200
TOTAL PORTS	(48 x 9) = 432

2 (E) ROOM 1A163 RACK ELEVATION
N.T.S.



HORIZONTAL CABLES	228
PATCH CORD	153
TOTAL PORTS	(48 x 5) + (24 x 1) = 264

3 (E) ROOM 1B134 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.
8. 18U 2-POST RACK TO BE DEMOLISHED.

Revisions:	Date:

ARCHITECT/ENGINEER OF RECORD

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Approved: FOR OFFICIAL USE ONLY		Location: 1100 TUNNEL ROAD ASHEVILLE, NC 28805	Building Number: BLDG 47
		Issue Date: 12.19.2025 / Checked / Drawn	Drawing Number: 47-TD603
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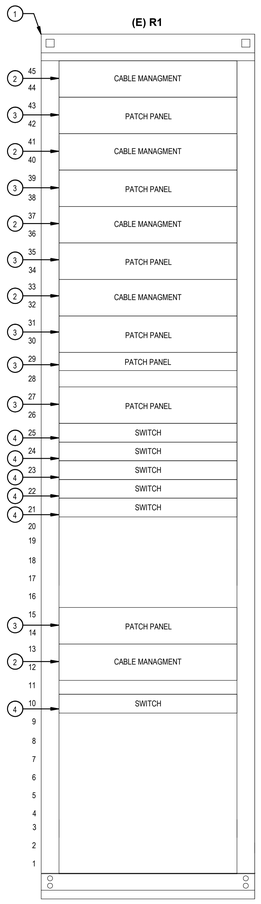
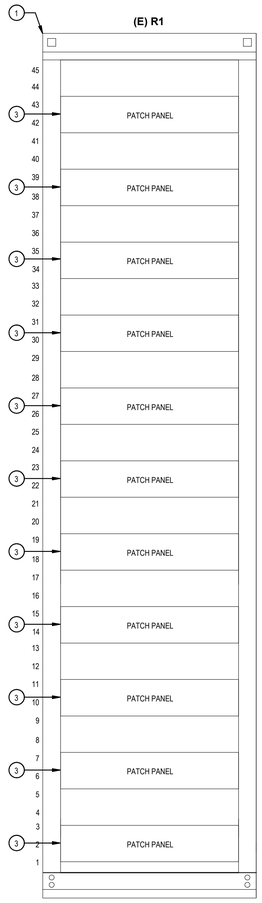
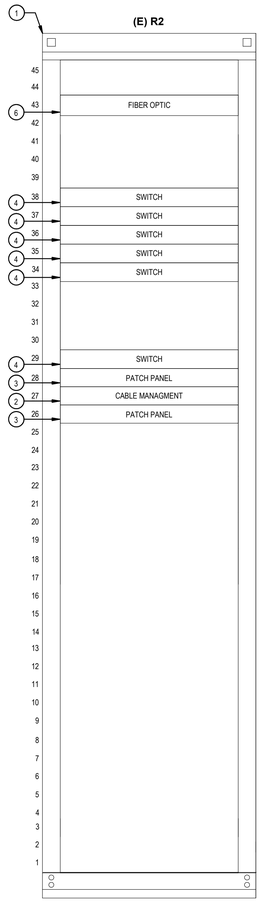


HORIZONTAL CABLES	264
PATCH CORD	145
TOTAL PORTS	(48 x 6) + (24 x 1) = 312

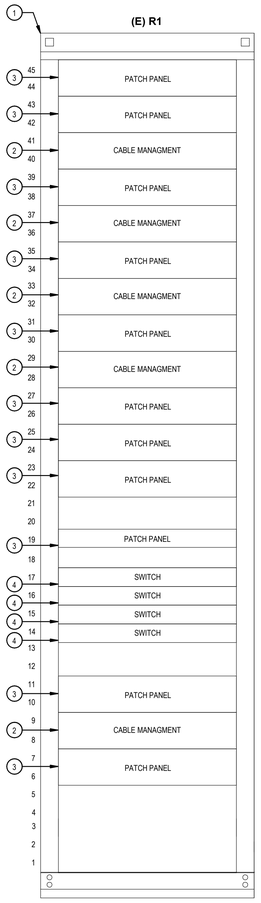
1 (E) ROOM 1C167 RACK ELEVATION
N.T.S.





HORIZONTAL CABLES	565
PATCH CORD	199
TOTAL PORTS	(48 x 11) + (24 x 2) = 576

2 (E) ROOM 1D139 RACK ELEVATION
N.T.S.



HORIZONTAL CABLES	362
PATCH CORD	124
TOTAL PORTS	(48 x 10) + (24 x 1) = 504

3 (E) ROOM 1F114 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.

Revisions:	Date:

ARCHITECT/ENGINEER OF RECORD

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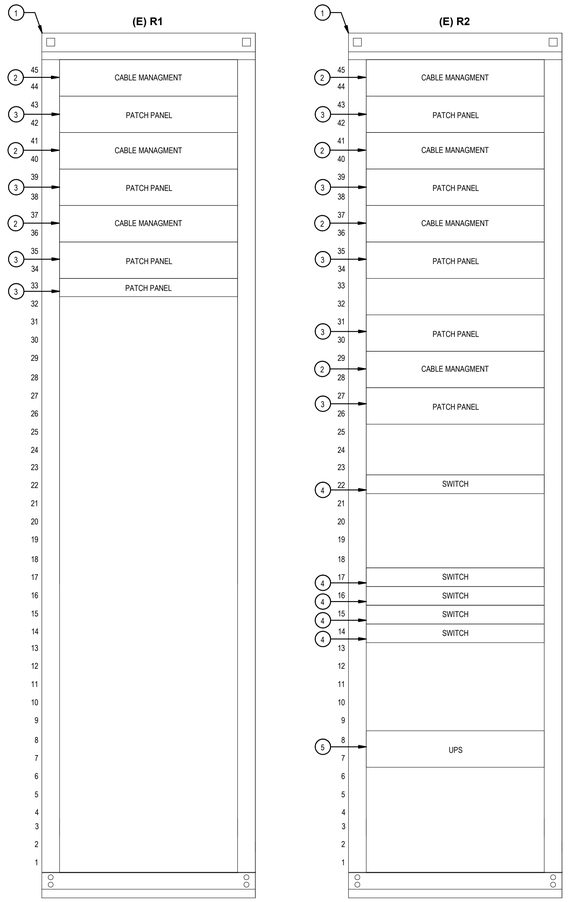

HORIZONTAL CABLES	380
PATCH CORD	168
TOTAL PORTS	(48 x 8) + (24 x 1) = 408

1 (E) ROOM 1G131A RACK ELEVATION
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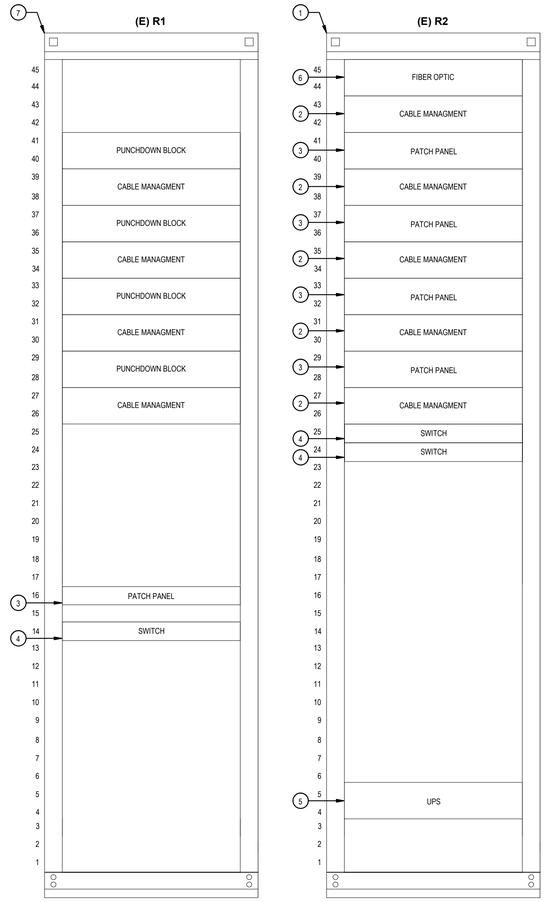

HORIZONTAL CABLES	194
PATCH CORD	89
TOTAL PORTS	(48 x 4) + (24 x 1) = 216

2 (E) ROOM 1W135 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. EXISTING 45U 2-POST RACK AND POTS EQUIPMENT WILL BE LEFT TO REMAIN.

Revisions:	Date:

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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 47

Drawing Number: 47-TD605

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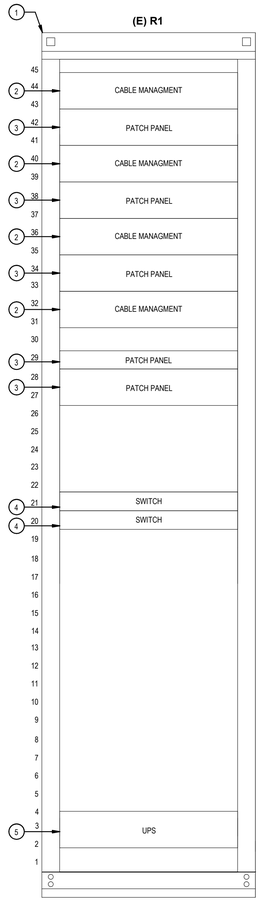
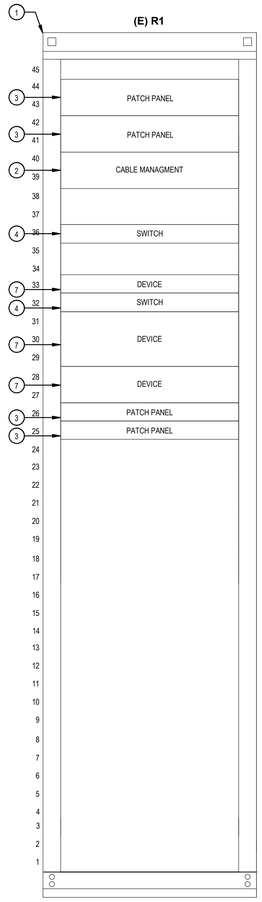


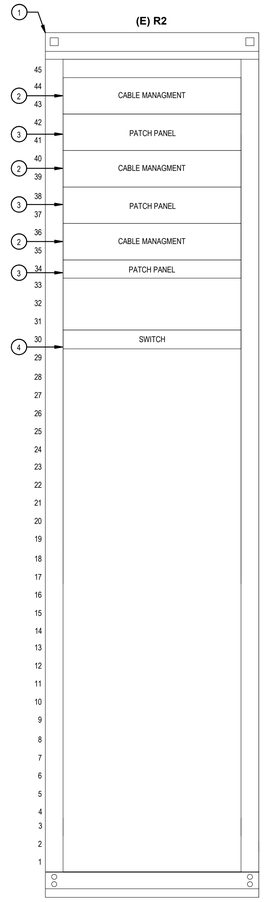
HORIZONTAL CABLES	155
PATCH CORD	89
TOTAL PORTS	(48 x 4) + (24 x 1) = 216

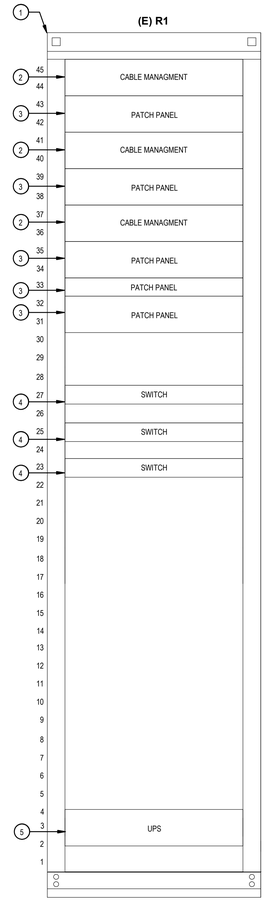
1 (E) ROOM 2A246 RACK ELEVATION
N.T.S.



HORIZONTAL CABLES	171
PATCH CORD	113
TOTAL PORTS	(48 x 4) + (24 x 3) = 264

2 (E) ROOM 2B266 RACK ELEVATION
N.T.S.





HORIZONTAL CABLES	170
PATCH CORD	99
TOTAL PORTS	(48 x 4) + (24 x 1) = 216

3 (E) ROOM 2B212 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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			Building Number: BLDG 47
Approved:		Location: 1100 TUNNEL ROAD ASHEVILLE, NC 28805	Drawing Number: 47-TD606
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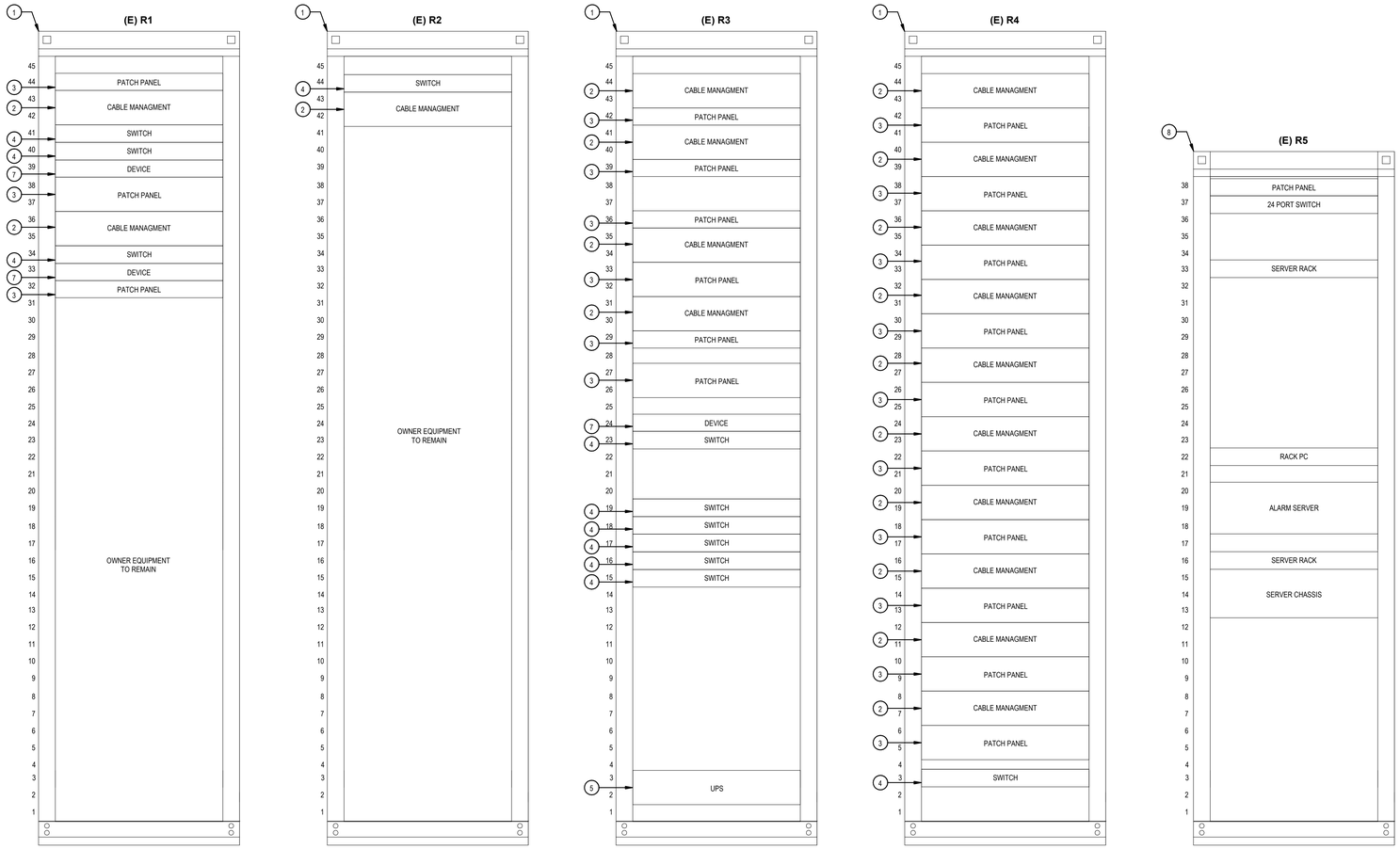

HORIZONTAL CABLES	684
PATCH CORD	225
TOTAL PORTS	(48 x 13) + (24 x 6) = 822

1 (E) ROOM 2B286 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.
8. EXISTING RACK FOR NURSE CALL SYSTEM. INTENT IS TO PROVIDE AN IDENTICAL SYSTEM IN THE NEW DATA CENTER PRIOR TO DEMOLITION. COORDINATE WITH VA COR PRIOR TO CONSTRUCTION.

PLAN NORTH N

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Issue Date: 12.19.2025

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Project Number: 637-22-700

Building Number: BLDG 47

Drawing Number: 47-TD607

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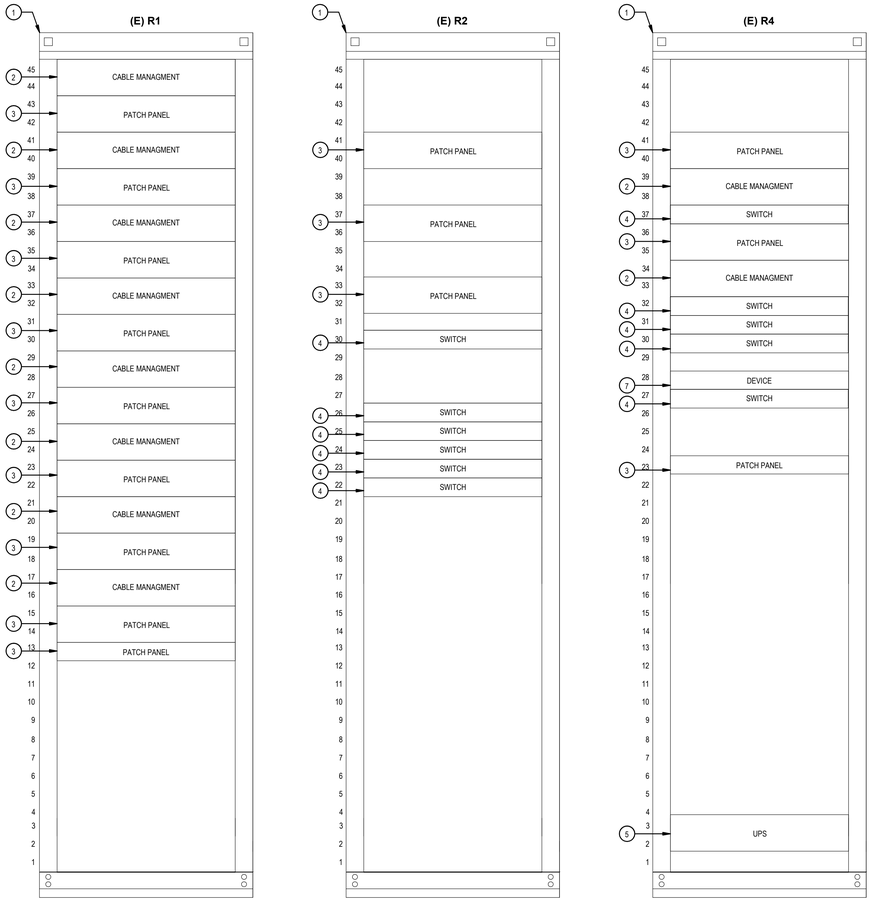
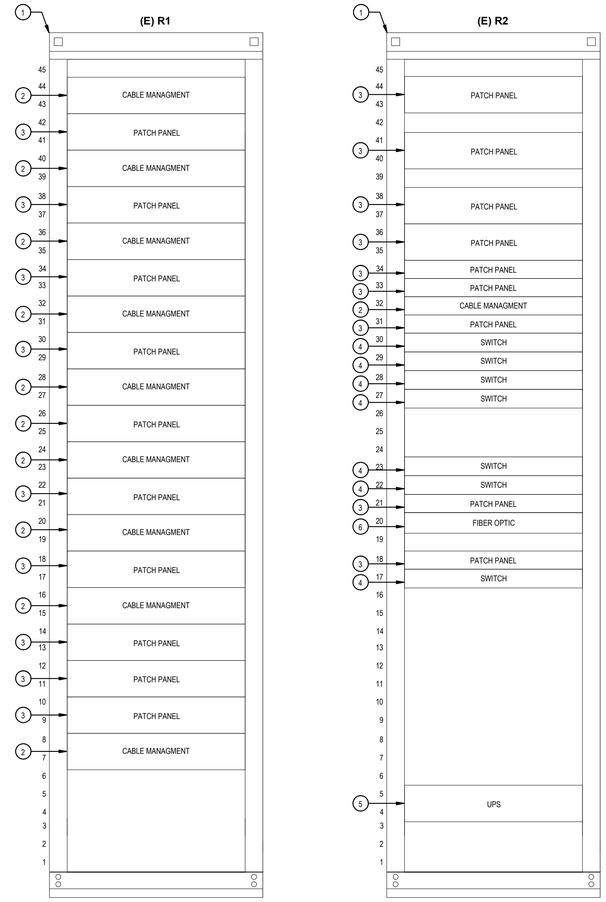


HORIZONTAL CABLES	530
PATCH CORD	221
TOTAL PORTS	(48 x 13) + (24 x 2) = 672

1 (E) ROOM A301 RACK ELEVATION
N.T.S.



HORIZONTAL CABLES	592
PATCH CORD	161
TOTAL PORTS	(48 x 14) + (24 x 5) = 792

2 (E) ROOM A401 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.

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Approved: FOR OFFICIAL USE ONLY			Building Number: BLDG 47
		Location: 1100 TUNNEL ROAD ASHEVILLE, NC 28805	Drawing Number: 47-TD608
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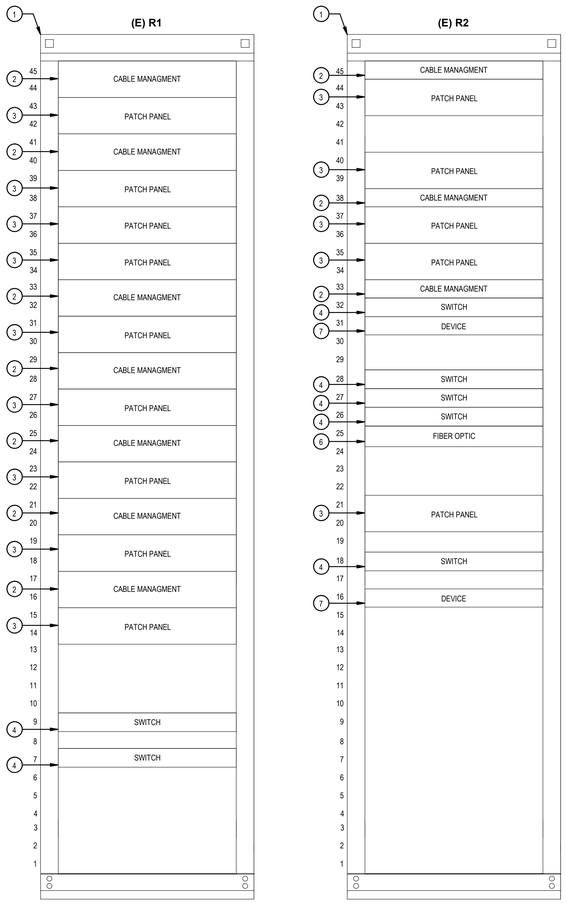

HORIZONTAL CABLES	442
PATCH CORD	149
TOTAL PORTS	(48 x 14) = 672

1 (E) ROOM A501 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:

ARCHITECT/ENGINEER OF RECORD

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Facilities Management Services

VA U.S. Department of Veterans Affairs

Drawing Title: EXISTING TELECOMMUNICATIONS RACK ELEVATIONS

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 47

Drawing Number: 47-TD609

SHEET OF 100

VA FORM 08 - 6231

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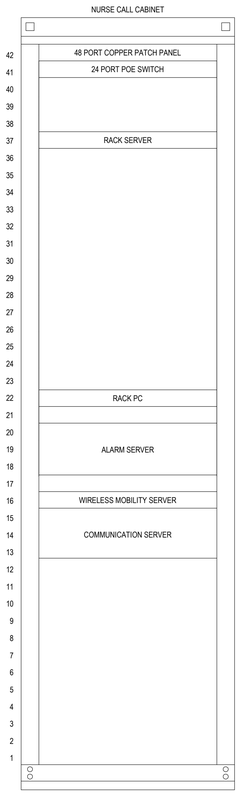

1 (E) NC RACK ELEVATION
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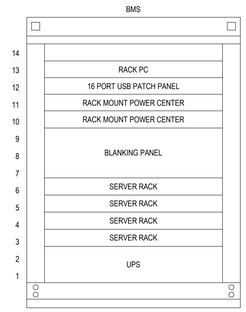

2 (E) BMS RACK ELEVATION
N.T.S.

3 PHOTO OF BMS RACK
N.T.S.

SHEET NOTES:

GENERAL NOTES:

1. REFER TO 00-T001 FOR GENERAL NOTES AND LEGENDS.
2. FOR LOCATION OF BMS RACK REFER TO TD-401.
3. FOR LOCATION OF NURSE CALL RACK REFER TO TD-403.
4. PRIOR TO CONSTRUCTION, COORDINATION OF EQUIPMENT WITH VA COR IS REQUIRED. SYSTEM OWNERS WERE UNKNOWN AT TIME OF DESIGN. DESIGN INTENT IS TO MIRROR EXISTING SYSTEMS IN NEW DATA CENTER THEN DEMOLISH THE OLD SYSTEMS. HOWEVER, THERE ARE SYSTEMS THAT WILL NEED TO BE TAKEN DOWN DURING CONSTRUCTION, COORDINATE THESE WITH VA COR.

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Facilities Management Services

VA U.S. Department of Veterans Affairs

Drawing Title: EXISTING TELECOMMUNICATIONS RACK ELEVATIONS

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 47

Drawing Number: 47-TD610

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VA FORM 08 - 6231

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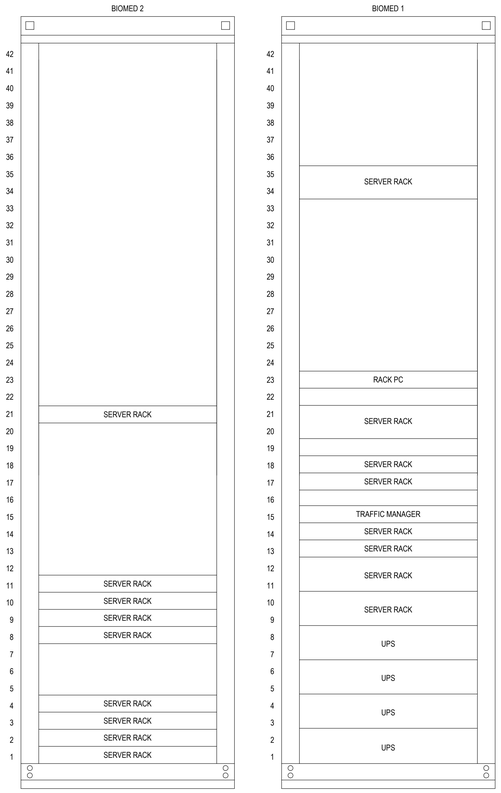
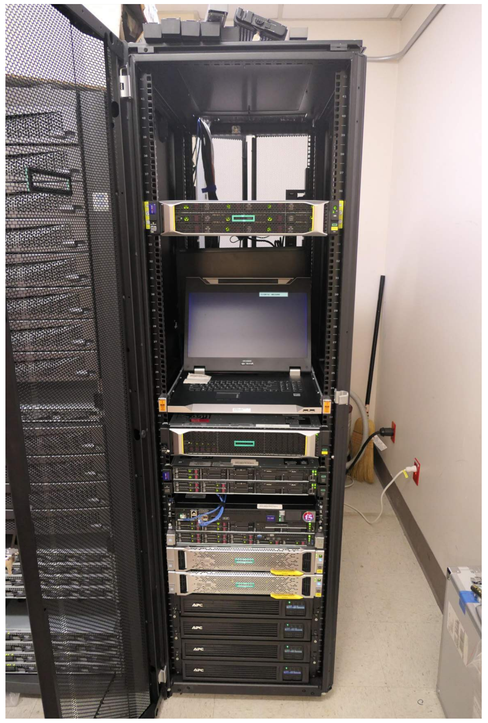
1 PHOTO OF BIOMED 2 RACK
N.T.S.



2 (E) BIOMED 1 & 2 RACK ELEVATION
N.T.S.



3 PHOTO OF BIOMED 1 RACK
N.T.S.

SHEET NOTES:

GENERAL NOTES:

1. REFER TO 00-T001 FOR GENERAL NOTES AND LEGENDS.
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Facilities Management Services

VA U.S. Department of Veterans Affairs

Drawing Title: EXISTING TELECOMMUNICATIONS RACK ELEVATIONS

Phase: FINAL BID DOCUMENTS

Project Title: EHRM INFRASTRUCTURE UPGRADES

Project Number: 637-22-700

Building Number: BLDG 47

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Location: 1100 TUNNEL ROAD ASHEVILLE, NC 28805

Issue Date: 12.19.2025

Checked:

Drawn:

Drawing Number: 47-TD611

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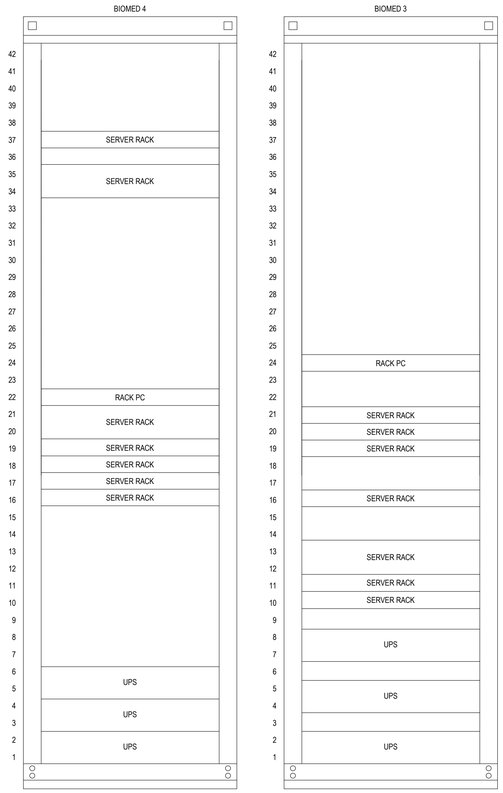

1 (E) BIOMED 3 & 4 RACK ELEVATION
N.T.S.

2 PHOTOS OF BIOMED 3 RACK
N.T.S.

3 PHOTOS OF BIOMED 4 RACK
N.T.S.

SHEET NOTES:

GENERAL NOTES:

1. REFER TO 00-T001 FOR GENERAL NOTES AND LEGENDS.
2. PRIOR TO CONSTRUCTION, COORDINATION OF EQUIPMENT WITH VA COR IS REQUIRED. SYSTEM OWNERS WERE UNKNOWN AT TIME OF DESIGN. DESIGN INTENT IS TO MIRROR EXISTING SYSTEMS IN NEW DATA CENTER THEN DEMOLISH THE OLD SYSTEMS. HOWEVER, THERE ARE SYSTEMS THAT WILL NEED TO BE TAKEN DOWN DURING CONSTRUCTION. COORDINATE THESE WITH VA COR.

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Drawing Title: EXISTING TELECOMMUNICATIONS 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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Drawn:

Project Number: 637-22-700

Building Number: BLDG 47

Drawing Number: 47-TD612

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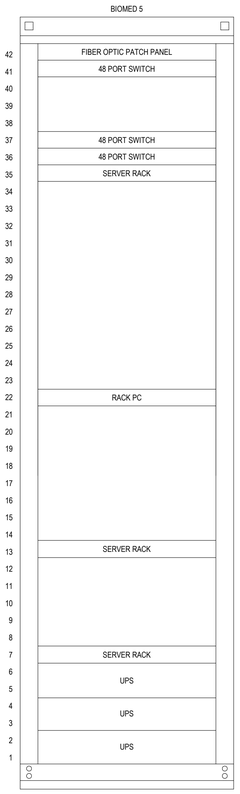
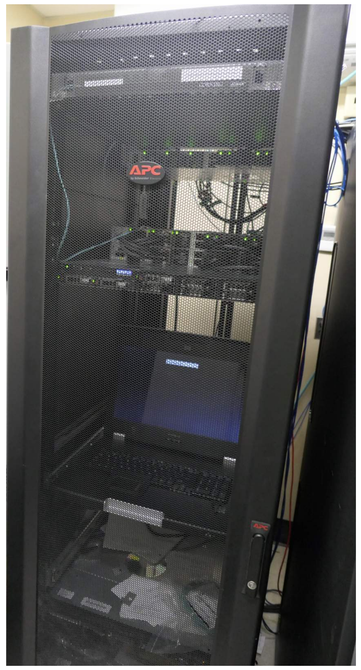


1 (E) BIOMED 5 RACK ELEVATION
N.T.S.



2 PHOTO OF BIOMED 5 RACK
N.T.S.

SHEET NOTES:

GENERAL NOTES:

1. REFER TO 00-T001 FOR GENERAL NOTES AND LEGENDS.
2. REFER TO 47-TD401 FOR EXACT LOCATION OF CABINETS.
3. PRIOR TO CONSTRUCTION, COORDINATION OF EQUIPMENT WITH VA COR IS REQUIRED. SYSTEM OWNERS WERE UNKNOWN AT TIME OF DESIGN. DESIGN INTENT IS TO MIRROR EXISTING SYSTEMS IN NEW DATA CENTER THEN DEMOLISH THE OLD SYSTEMS. HOWEVER, THERE ARE SYSTEMS THAT WILL NEED TO BE TAKEN DOWN DURING CONSTRUCTION, COORDINATE THESE WITH VA COR.

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Drawing Title: EXISTING TELECOMMUNICATIONS 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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Drawn

Project Number: 637-22-700

Building Number: BLDG 47

Drawing Number: 47-TD613

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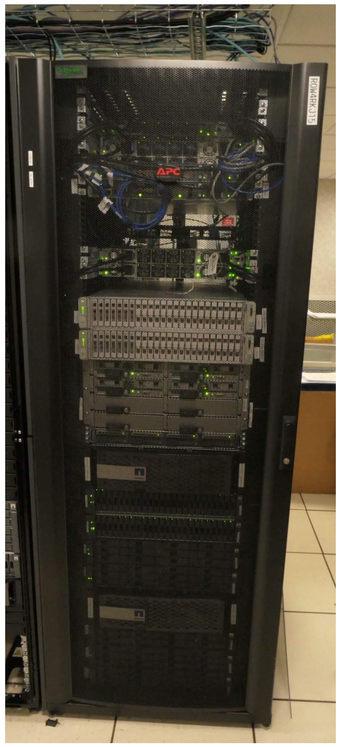

1 PHOTO OF ROW4RKJ15 RACK
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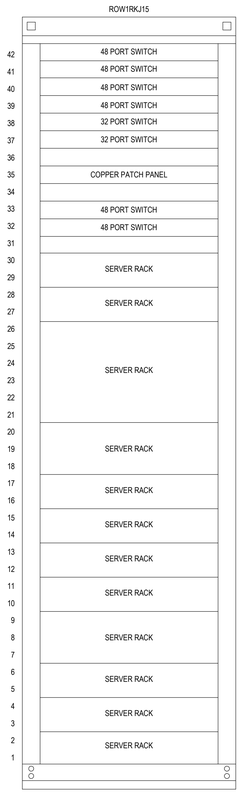

2 (E) ROW4RKJ15 RACK ELEVATION
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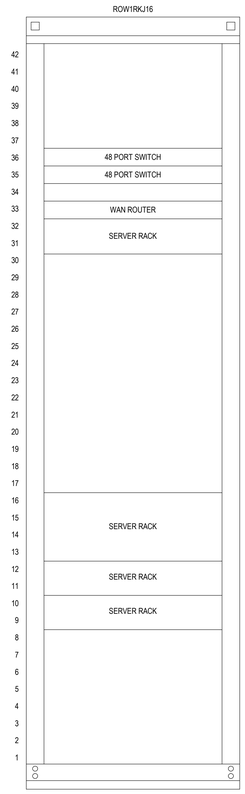

3 (E) ROW4RKJ16 RACK ELEVATION
N.T.S.

4 PHOTO OF ROW4RKJ16 RACK
N.T.S.

SHEET NOTES:

GENERAL NOTES:

1. REFER TO 00-T001 FOR GENERAL NOTES AND LEGENDS.
2. REFER TO 47-TD401 FOR EXACT LOCATION OF CABINETS.
3. PRIOR TO CONSTRUCTION, COORDINATION OF EQUIPMENT WITH VA COR IS REQUIRED. SYSTEM OWNERS WERE UNKNOWN AT TIME OF DESIGN. DESIGN INTENT IS TO MIRROR EXISTING SYSTEMS IN NEW DATA CENTER THEN DEMOLISH THE OLD SYSTEMS. HOWEVER, THERE ARE SYSTEMS THAT WILL NEED TO BE TAKEN DOWN DURING CONSTRUCTION, COORDINATE THESE WITH VA COR.

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VA U.S. Department of Veterans Affairs

Drawing Title: EXISTING TELECOMMUNICATIONS RACK ELEVATIONS

Phase: FINAL BID DOCUMENTS

Project Title: EHRM INFRASTRUCTURE UPGRADES

Project Number: 637-22-700

Building Number: BLDG 47

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Location: 1100 TUNNEL ROAD ASHEVILLE, NC 28805

Issue Date: 12.19.2025

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Drawn

Drawing Number: 47-TD614

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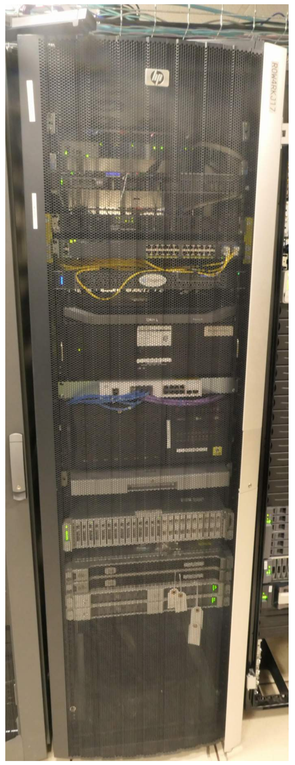

1 PHOTO OF ROW4RKJ17 RACK
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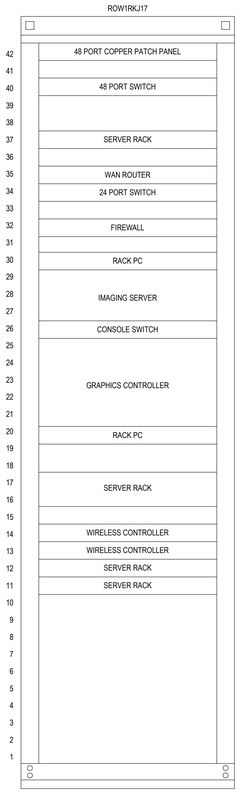

2 (E) ROW4RKJ17 RACK ELEVATION
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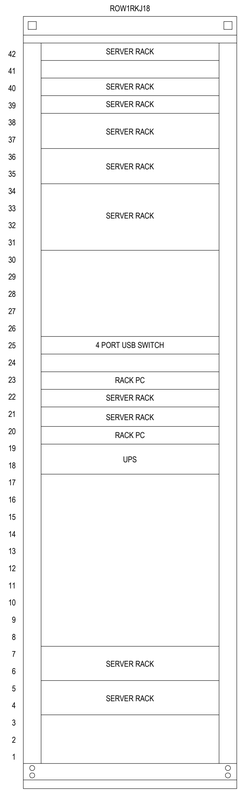

3 (E) ROW4RKJ18 RACK ELEVATION
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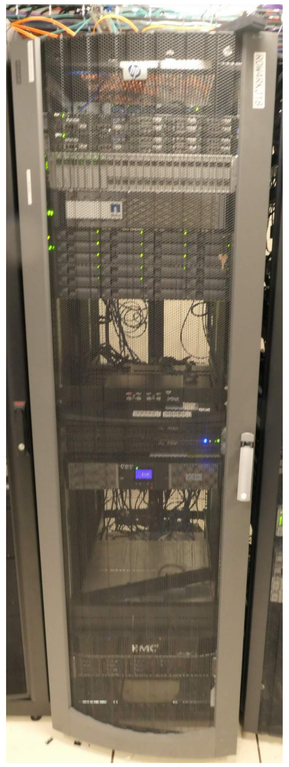

4 PHOTO OF ROW4RKJ18 RACK
N.T.S.

SHEET NOTES:

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VA U.S. Department of Veterans Affairs

Drawing Title: EXISTING TELECOMMUNICATIONS RACK ELEVATIONS

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 47

Drawing Number: 47-TD615

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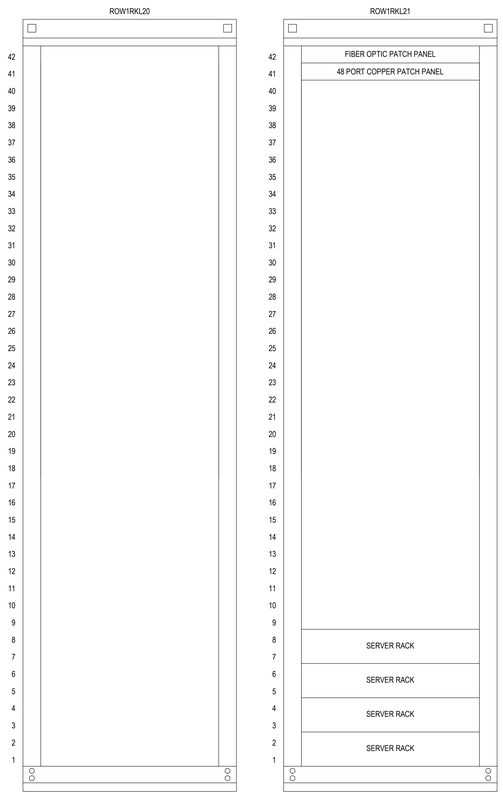

1 (E) ROW3RKL20 & ROW3RKL21 RACK ELEVATIONS
N.T.S.

2 PHOTOS OF ROW3RKL20 RACK
N.T.S.

3 PHOTOS OF ROW3RKL21 RACK
N.T.S.

SHEET NOTES:

GENERAL NOTES:

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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 47

Drawing Number: 47-TD616

SHEET OF 100

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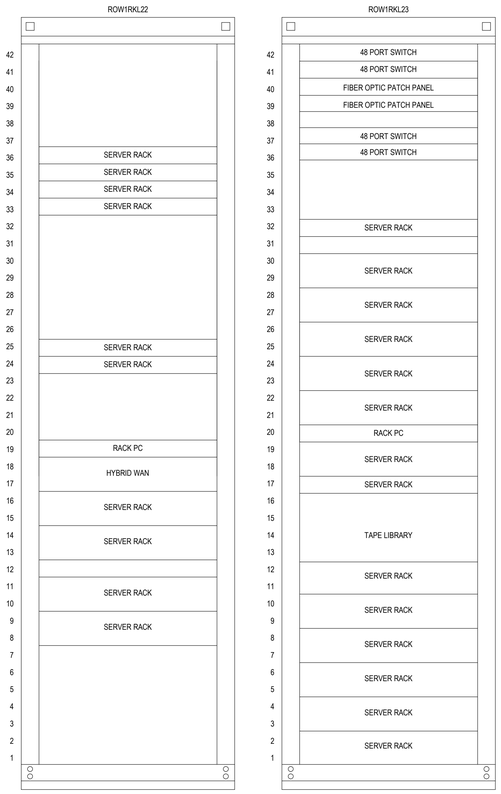

1 (E) ROW3RKL22 & ROW3RKL23 RACK ELEVATIONS
N.T.S.

2 PHOTOS OF ROW3RKL22 RACK
N.T.S.

3 PHOTOS OF ROW3RKL23 RACK
N.T.S.

SHEET NOTES:

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Location: 1100 TUNNEL ROAD ASHEVILLE, NC 28805

Issue Date: 12.19.2025 | Checked | Drawn

Project Number: 637-22-700

Building Number: BLDG 47

Drawing Number: 47-TD617

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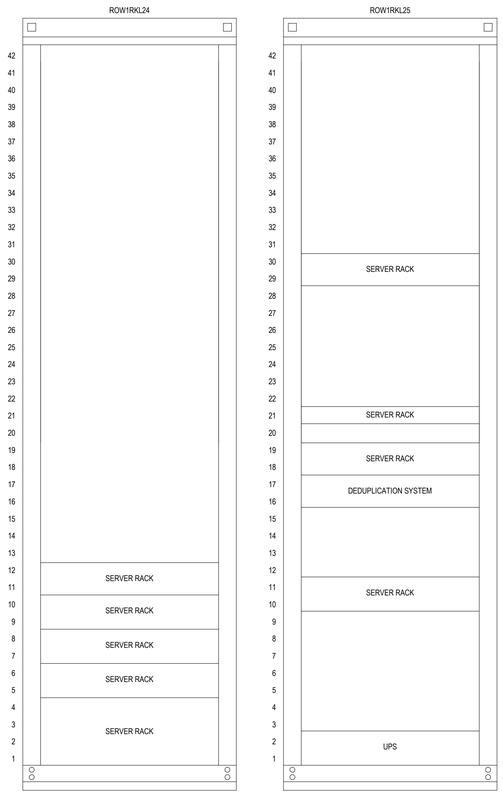
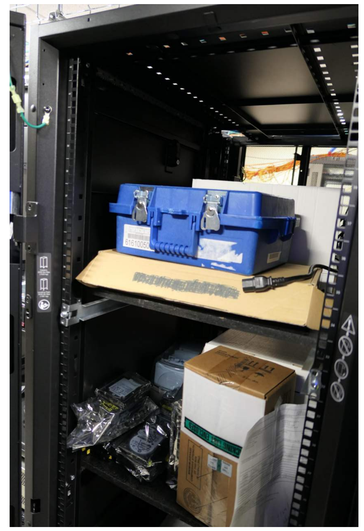


1 (E) ROW3RKL24 & ROW3RKL25 RACK ELEVATIONS
N.T.S.



2 PHOTOS OF ROW3RKL24 RACK
N.T.S.

3 PHOTO OF ROW3RKL25 RACK
N.T.S.

SHEET NOTES:

GENERAL NOTES:

1. REFER TO 00-T001 FOR GENERAL NOTES AND LEGENDS.
2. REFER TO 47-TD401 FOR EXACT LOCATION OF CABINETS.
3. PRIOR TO CONSTRUCTION, COORDINATION OF EQUIPMENT WITH VA COR IS REQUIRED. SYSTEM OWNERS WERE UNKNOWN AT TIME OF DESIGN. DESIGN INTENT IS TO MIRROR EXISTING SYSTEMS IN NEW DATA CENTER THEN DEMOLISH THE OLD SYSTEMS. HOWEVER, THERE ARE SYSTEMS THAT WILL NEED TO BE TAKEN DOWN DURING CONSTRUCTION, COORDINATE THESE WITH VA COR.

Revisions:	Date:

ARCHITECT/ENGINEER OF RECORD

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Facilities Management Services

VA U.S. Department of Veterans Affairs

Drawing Title: EXISTING TELECOMMUNICATIONS RACK ELEVATIONS

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 47

Drawing Number: 47-TD618

SHEET OF 100

VA FORM 08 - 6231

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1 PHOTO OF ROW3RKL26 RACK
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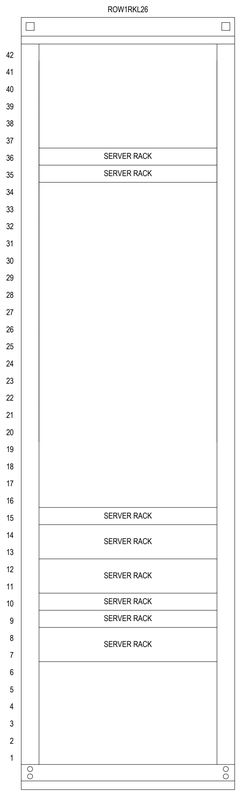

2 (E) ROW3RKL26 RACK ELEVATION
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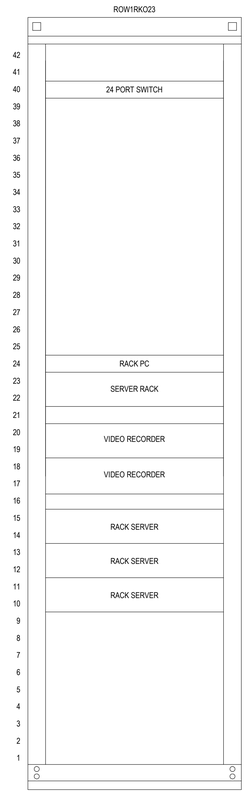

3 (E) ROW1RKO23 RACK ELEVATION
N.T.S.

SHEET NOTES:

GENERAL NOTES:

1. REFER TO 00-T001 FOR GENERAL NOTES AND LEGENDS.
2. REFER TO 47-TD401 FOR EXACT LOCATION OF CABINETS.
3. PRIOR TO CONSTRUCTION, COORDINATION OF EQUIPMENT WITH VA COR IS REQUIRED. SYSTEM OWNERS WERE UNKNOWN AT TIME OF DESIGN. DESIGN INTENT IS TO MIRROR EXISTING SYSTEMS IN NEW DATA CENTER THEN DEMOLISH THE OLD SYSTEMS. HOWEVER, THERE ARE SYSTEMS THAT WILL NEED TO BE TAKEN DOWN DURING CONSTRUCTION, COORDINATE THESE WITH VA COR.

Revisions:	Date:

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Facilities Management Services

VA U.S. Department of Veterans Affairs

Drawing Title: EXISTING TELECOMMUNICATIONS RACK ELEVATIONS

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 47

Drawing Number: 47-TD619

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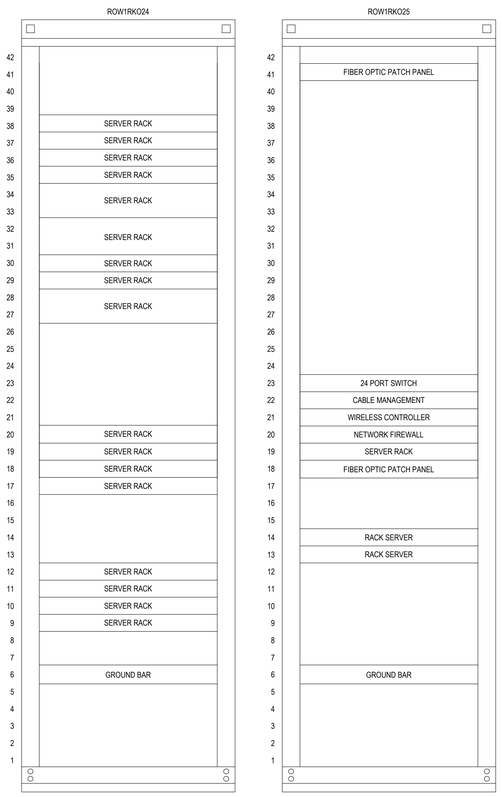

1 (E) ROW1RKO24 & ROW1RKO25 RACK ELEVATIONS
N.T.S.

2 PHOTO OF ROW1RKO24 RACK
N.T.S.

3 PHOTO OF ROW1RKO25 RACK
N.T.S.

SHEET NOTES:

GENERAL NOTES:

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2. REFER TO 47-TD401 FOR EXACT LOCATION OF CABINETS.
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Facilities Management Services

VA U.S. Department of Veterans Affairs

Drawing Title: EXISTING TELECOMMUNICATIONS RACK ELEVATIONS

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 47

Drawing Number: 47-TD620

SHEET OF 100

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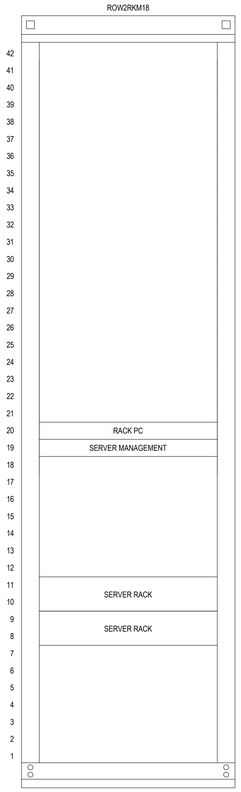
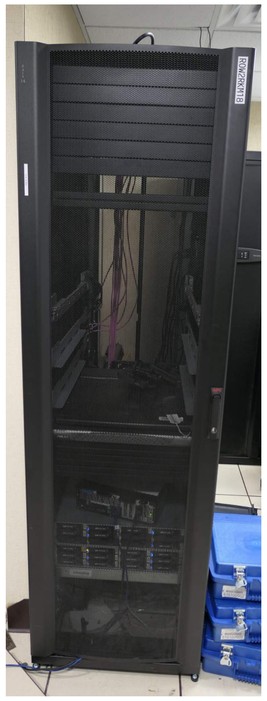


1 (E) ROW2RKM18 RACK ELEVATION
N.T.S.



3 PHOTO OF ROW2RKM18 RACK
N.T.S.

SHEET NOTES:

GENERAL NOTES:

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2. REFER TO 47-TD401 FOR EXACT LOCATION OF CABINETS.
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Facilities Management Services

VA U.S. Department of Veterans Affairs

Drawing Title: EXISTING TELECOMMUNICATIONS RACK ELEVATIONS

Phase: FINAL BID DOCUMENTS

Project Title: EHRM INFRASTRUCTURE UPGRADES

Project Number: 637-22-700

Building Number: BLDG 47

Approved:

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Location: 1100 TUNNEL ROAD, ASHEVILLE, NC 28805

Issue Date: 12.19.2025

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Drawing Number: 47-TD621

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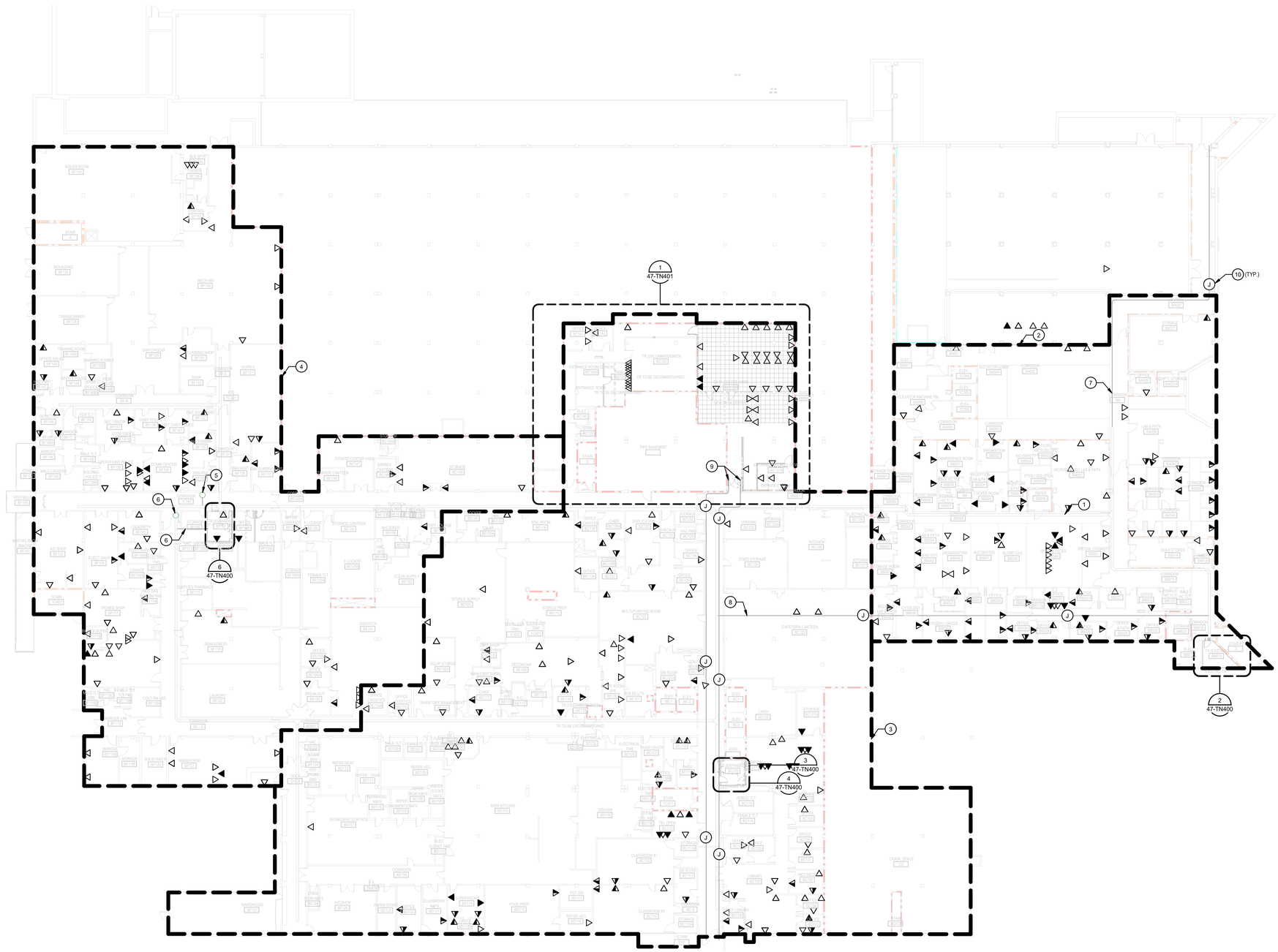


1 TELECOMMUNICATIONS BASEMENT PLAN - OVERALL
1" = 20'-0"

SHEET NOTES:

1. 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.
2. COVERAGE AREA FOR TELECOM ROOM BB018.
3. COVERAGE AREA FOR TELECOM ROOM BC118.
4. COVERAGE AREA FOR TELECOM ROOM BF107.
5. PROVIDE NEW CONDUIT CONTAINING (3) 1" CORRUGATED INNERDUCT FOR B-SIDE FIBER BACKBONE. CONDUIT TO CONTAIN (8) 12ST OS1 AND (8) 24ST OM4 B SIDE FIBER GOING TO TR 1H113 FROM THE NEW DATA CENTER. SEE SHEET 47-TN600 FOR FURTHER BACKBONE DISTRIBUTION DETAILS. PROVIDE FIRE STOPPING AS REQUIRED.
6. PROVIDE NEW CONDUIT CONTAINING (3) 1" CORRUGATED INNERDUCT FOR A-SIDE FIBER BACKBONE. CONDUIT TO CONTAIN (1) 12ST OS1 AND (1) 24ST OM4 A SIDE FIBER GOING TO TR BF107 FROM TR 1H113. SEE SHEET 47-TN600 FOR FURTHER BACKBONE DISTRIBUTION DETAILS. PROVIDE FIRE STOPPING AS REQUIRED.
7. PROVIDE NEW CONDUIT CONTAINING (3) 1" CORRUGATED INNERDUCT FOR A-SIDE FIBER BACKBONE DISTRIBUTION. CONDUIT TO CONTAIN (5) 12ST OS1 AND (5) 24ST OM4 A SIDE FIBER GOING TO TR 1A136 FROM THE NEW DATA CENTER. SEE SHEET 47-TN600 FOR FURTHER BACKBONE DISTRIBUTION DETAILS. PROVIDE FIRE STOPPING AS REQUIRED.
8. PROVIDE NEW CONDUIT CONTAINING (3) 1" CORRUGATED INNERDUCT FOR B-SIDE FIBER BACKBONE DISTRIBUTION. CONDUIT TO CONTAIN (5) 12ST OS1 AND (5) 24ST OM4 B SIDE FIBER GOING TO TR BB018 FROM THE NEW DATA CENTER. SEE SHEET 47-TN600 FOR FURTHER BACKBONE DISTRIBUTION DETAILS. PROVIDE FIRE STOPPING AS REQUIRED.
9. PROVIDE (2) 4" CONDUITS CONTAINING (3) 1" CORRUGATED INNERDUCT FROM THE NEW DATA CENTER TO THE GROUND FLOOR OF BUILDING 62 UNDER THE BUILDING'S FIRST FLOOR TR. EACH CONDUIT WILL CONTAIN (2) 24ST OS2 FIBER, ONE SET FED FROM THE A SIDE MDA AND THE OTHER FED FROM THE B SIDE MDA. RUN CONDUITS IN PARALLEL ABOVE CEILING AND KEEP THEM SEPARATED BY AT LEAST 10' OR FURTHEST ACHIEVABLE WHERE POSSIBLE. PROVIDE FIRE STOPPING AS REQUIRED. SEE SHEET 62-TN100 FOR FURTHER ROUTING DETAILS.
10. PROVIDE JUNCTION BOX FOR FIBER PATHWAY.

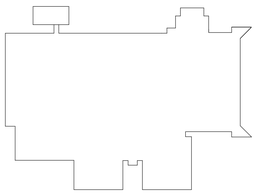
GENERAL NOTES:

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. 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 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 AND ASSOCIATED CORRUGATED INNERDUCT SHALL BE ROUTED ON WIRE BASKET TRAY UNLESS NOTED OTHERWISE.
7. CONTRACTOR SHALL VERIFY THE COVERAGE AREA FOR EACH TELECOM ROOM. THE COVERAGE AREA ON THE DRAWINGS IS BASED ON THE INFORMATION KNOWN AT THE TIME OF DESIGN. THE INTENT OF THE DESIGN IS THAT ALL EXISTING DATA DROPS SHALL BE REFED FROM THE EXISTING TELECOM ROOM THAT THE EXISTING DATA DROP ORIGINATES FROM. IF THAT EXISTING TELECOM ROOM IS TO BE DEMOLISHED, THEN ROUTE THE DATA DROP TO THE NEAREST TELECOM ROOM.
8. COPPER HORIZONTAL CABLE DISTANCE OF 262FT USED FOR BASIS OF COVERAGE.
9. NEW WORK AREA OUTLET/DATA DROP LOCATIONS FOR BUILDING 47 ARE CURRENTLY UNDER COORDINATION WITH THE PROJECT COR.

PARTITION LEGEND

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

KEY PLAN



PLAN NORTH N

1" = 20'-0" 20 0 20 40 SCALE FEET

Revisions:	Date:

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AWEN SOLUTIONS GROUP
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Facilities Management Services

VA U.S. Department of Veterans Affairs

Drawing Title: TELECOMMUNICATIONS BASEMENT PLAN - OVERALL

Phase: FINAL BID DOCUMENTS

Project Title: EHRM INFRASTRUCTURE UPGRADES

Project Number: 637-22-700

Building Number: BLDG 47

Approved:

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Location: 1100 TUNNEL ROAD ASHEVILLE, NC 28805

Issue Date: 12.19.2025

Checked

Drawn

Drawing Number: 47-TN100

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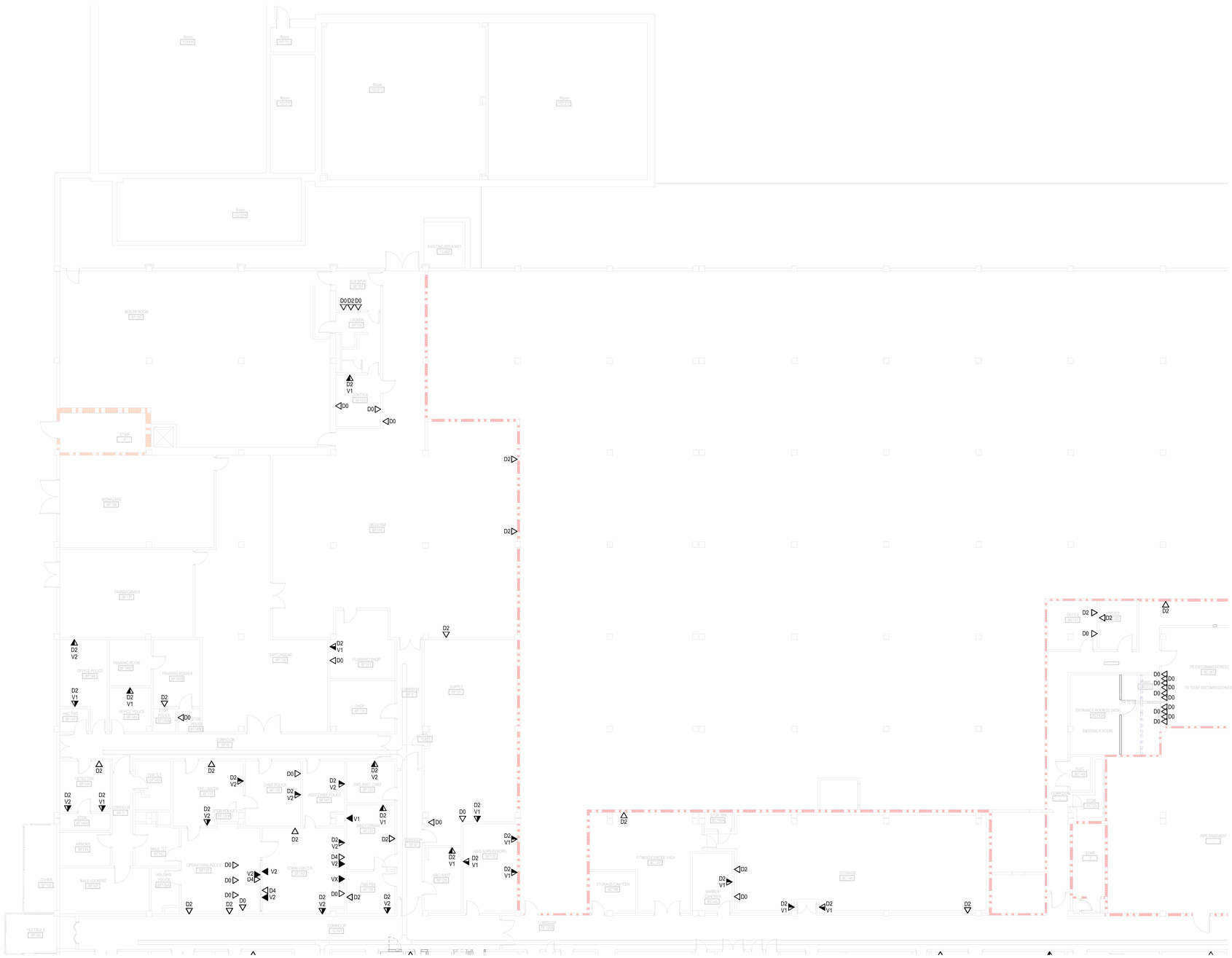

1 TELECOMMUNICATIONS BASEMENT PLAN - PART A
3/32" = 1'-0"

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 REPLACED WITH CAT6A CABLING.
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 VA COR IMMEDIATELY.
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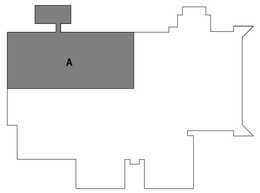
8. NEW WORK AREA OUTLET/DATA DROP LOCATIONS FOR BUILDING 47 ARE CURRENTLY UNDER COORDINATION WITH THE PROJECT COR.

PARTITION LEGEND

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

KEY PLAN



PLAN NORTH N

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

Revisions:	Date:

ARCHITECT/ENGINEER OF RECORD

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Facilities Management Services

VA U.S. Department of Veterans Affairs

Drawing Title	Phase	Project Title	Project Number
TELECOMMUNICATIONS BASEMENT PLAN - PART A	FINAL BID DOCUMENTS	EHRM INFRASTRUCTURE UPGRADES	637-22-700
Approved:		Location: 1100 TUNNEL ROAD ASHEVILLE, NC 28805	Building Number: BLDG 47
FOR OFFICIAL USE ONLY		Issue Date: 12.19.2025 / Checked / Drawn	Drawing Number: 47-TN101
			SHEET OF 100

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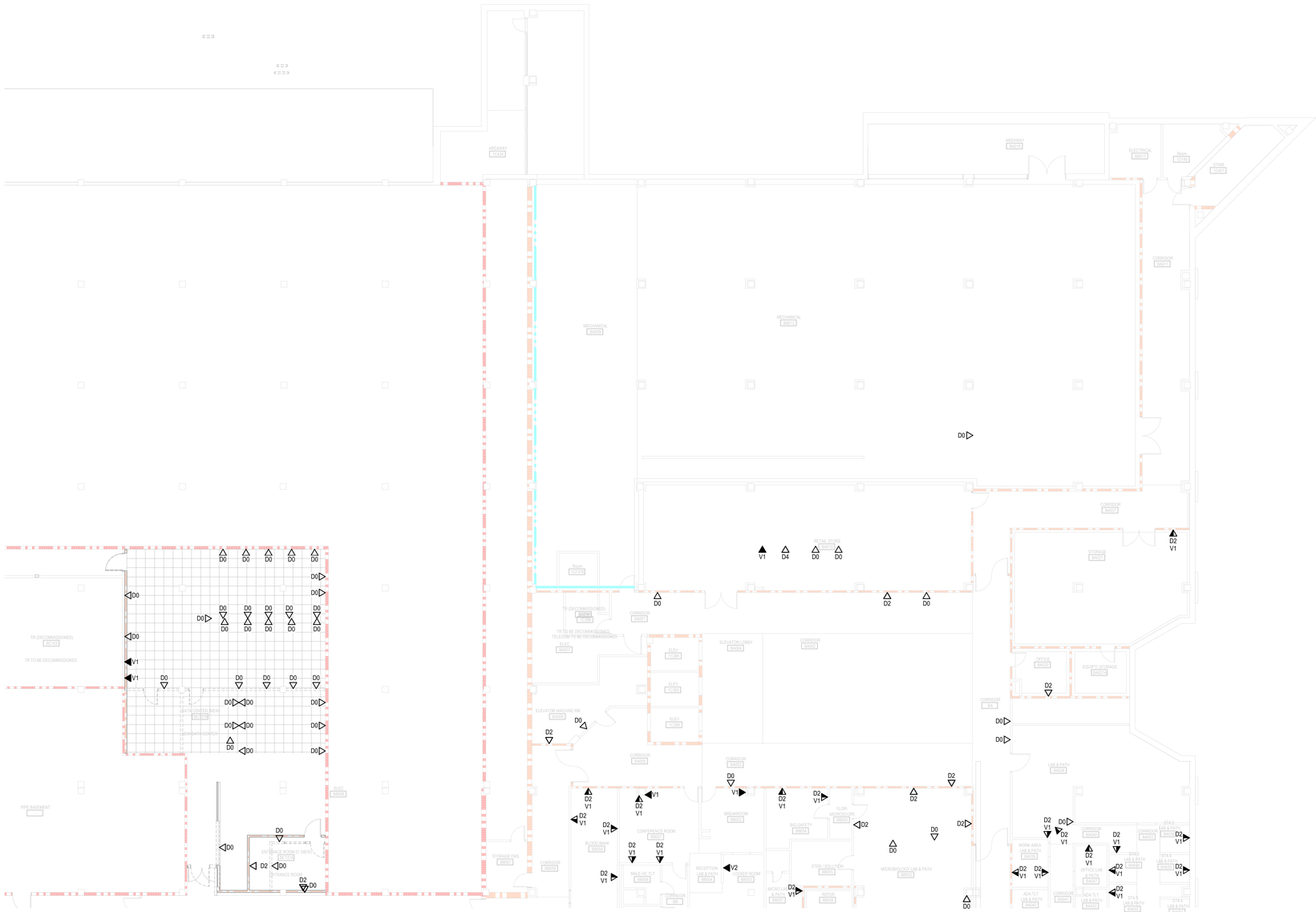

1 TELECOMMUNICATIONS BASEMENT PLAN - PART B
3/32" = 1'-0"

SHEET NOTES:

GENERAL NOTES:

1. REFER TO 00-T001 FOR GENERAL NOTES AND LEGENDS.
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PARTITION LEGEND

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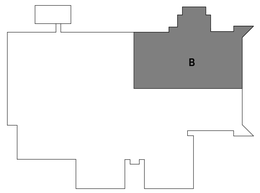
- FIRE BARRIER, 1 HR
- SMOKE BARRIER, 1/2 HR
- SMOKE RESISTIVE HAZARDOUS
- PATIENT SUIT/ NON SLEEPING

KEY PLAN



PLAN NORTH N

3/32" = 1'-0" 5 0 5 10 15 20 25 30
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 - PART B	FINAL BID DOCUMENTS	EHRM INFRASTRUCTURE UPGRADES	637-22-700
Approved:			Building Number: BLDG 47
FOR OFFICIAL USE ONLY		Location: 1100 TUNNEL ROAD ASHEVILLE, NC 28805	Drawing Number: 47-TN102
		Issue Date: 12.19.2025 / Checked / Drawn	SHEET OF 100

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1 TELECOMMUNICATIONS BASEMENT PLAN - PART C
3/32" = 1'-0"

SHEET NOTES:

GENERAL NOTES:

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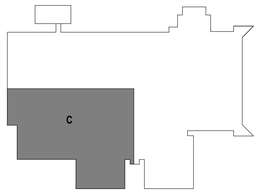
4. THE QUANTITY OF TELECOM DROPS TO BE REMOVED, INSTALLED, AND MAINTAINED IS BASED ON THE INFORMATION KNOWN AT THE TIME OF DESIGN. PRIOR TO CONSTRUCTION, TELECOM DROP LOCATIONS SHALL BE SURVEYED. ANY DISCREPANCIES SHALL BE PROVIDED TO THE VA COR IMMEDIATELY.
5. WHERE DROP CEILING TILES ARE DISTURBED 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 AND ASSOCIATED CORRUGATED INNERDUCT SHALL BE ROUTED ON WIRE BASKET TRAY UNLESS NOTED OTHERWISE.
7. CONTRACTOR SHALL VERIFY THE COVERAGE AREA FOR EACH TELECOM ROOM. THE COVERAGE AREA ON THE DRAWINGS IS BASED ON THE INFORMATION KNOWN AT THE TIME OF DESIGN. THE INTENT OF THE DESIGN IS THAT ALL EXISTING DATA DROPS SHALL BE REFED FROM THE EXISTING TELECOM ROOM THAT THE EXISTING DATA DROP ORIGINATES FROM. IF THAT EXISTING TELECOM ROOM IS TO BE DEMOLISHED, THEN ROUTE THE DATA DROP TO THE NEAREST TELECOM ROOM.
8. NEW WORK AREA OUTLET/DATA DROP LOCATIONS FOR BUILDING 47 ARE CURRENTLY UNDER COORDINATION WITH THE PROJECT COR.

PARTITION LEGEND

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

KEY PLAN



PLAN NORTH N

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

Revisions:	Date:

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Exp. 12-31-28
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Facilities Management Services

VA U.S. Department of Veterans Affairs

Drawing Title: TELECOMMUNICATIONS BASEMENT PLAN - PART C	Phase: FINAL BID DOCUMENTS	Project Title: EHRM INFRASTRUCTURE UPGRADES	Project Number: 637-22-700
Approved: FOR OFFICIAL USE ONLY			Building Number: BLDG 47
		Location: 1100 TUNNEL ROAD ASHEVILLE, NC 28805	Drawing Number: 47-TN103
		Issue Date: 12.19.2025 / Checked: / Drawn:	SHEET OF 100

VA FORM 08 - 6231

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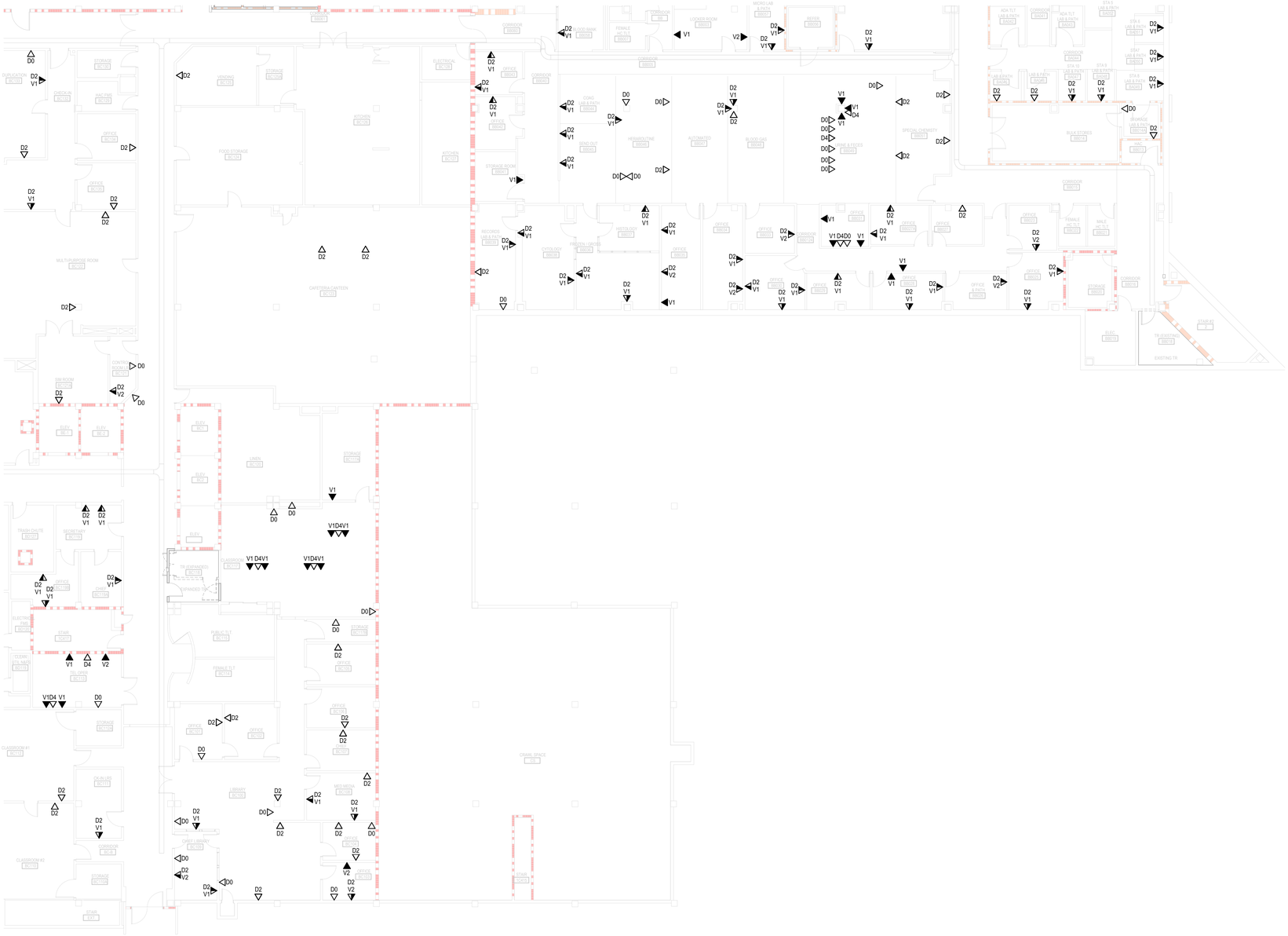

1 TELECOMMUNICATIONS BASEMENT PLAN - PART D
3/32" = 1'-0"

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 REPLACED WITH CAT6A CABLING.
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 VA COR IMMEDIATELY.
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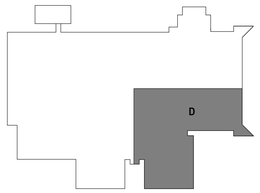
8. NEW WORK AREA OUTLET/DATA DROP LOCATIONS FOR BUILDING 47 ARE CURRENTLY UNDER COORDINATION WITH THE PROJECT COR.

PARTITION LEGEND

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

KEY PLAN



PLAN NORTH N

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

Revisions:	Date:

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12/18/2025

Facilities Management Services

VA U.S. Department of Veterans Affairs

Drawing Title: TELECOMMUNICATIONS BASEMENT PLAN - PART D

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 47

Drawing Number: 47-TN104

SHEET OF 100

VA FORM 08 - 6231

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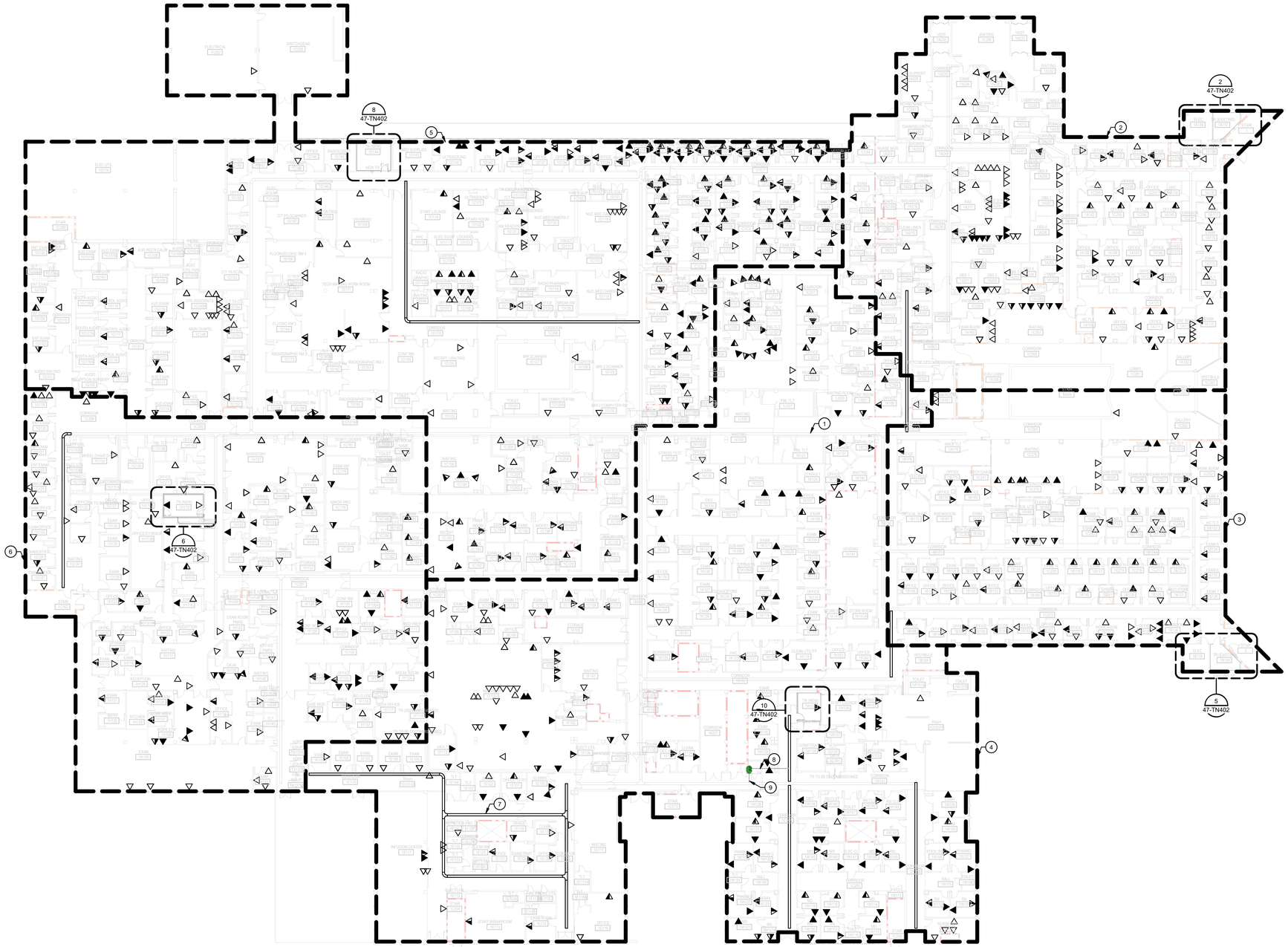

1 TELECOMMUNICATIONS 1ST FLOOR PLAN - OVERALL
1" = 20'-0"

SHEET NOTES:

1. 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.
2. COVERAGE AREA FOR 1A136.
3. COVERAGE AREA FOR 1B134.
4. COVERAGE AREA FOR 1W133.
5. COVERAGE AREA FOR 1D144.
6. COVERAGE AREA FOR 1H113.
7. NEW WIRE BASKET CABLE TRAY (TYP).
8. PROVIDE (3) 1" CORRUGATED INNERDUCT IN THE EXISTING VERTICAL CONDUIT WITH NEW EXTENSION TO CABLE TRAY. CONDUIT TO CONTAIN (8) 12ST OS1 AND (8) 24ST OM4 A SIDE FIBER COMING FROM TR BC118. ROUTE (5) OF THESE SETS TO TR 1W133, (2) SETS TO TR 1H113, AND (1) SET TO TR 1D144. SEE SHEET 47-TN600 FOR FURTHER BACKBONE DISTRIBUTION DETAILS. PROVIDE FIRE STOPPING AS REQUIRED.
9. PROVIDE (3) 1" CORRUGATED INNERDUCT IN THE EXISTING VERTICAL CONDUIT WITH NEW EXTENSION TO CABLE TRAY. CONDUIT TO CONTAIN (1) 12ST OS1 AND (1) 24ST OM4 B SIDE FIBER GOING TO TR BC118 FROM TR 1H113. SEE SHEET 47-TN600 FOR FURTHER BACKBONE DISTRIBUTION DETAILS. PROVIDE FIRE STOPPING AS REQUIRED.

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. NOT ALL DEVICES ARE SHOWN. CONTRACTOR TO VERIFY ALL DATA OUTLET LOCATIONS IN THE FIELD.
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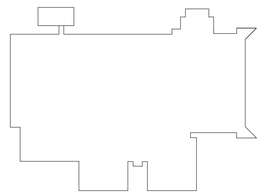
8. COPPER HORIZONTAL CABLE DISTANCE OF 262FT USED FOR BASIS OF COVERAGE.
9. NEW WORK AREA OUTLET/DATA DROP LOCATIONS FOR BUILDING 47 ARE CURRENTLY UNDER COORDINATION WITH THE PROJECT COR.

PARTITION LEGEND

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

KEY PLAN



PLAN NORTH N

1" = 20'-0" 20 0 20 40 SCALE FEET

Revisions:	Date:

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Facilities Management Services

VA U.S. Department of Veterans Affairs

Drawing Title: TELECOMMUNICATIONS 1ST FLOOR PLAN - OVERALL

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 47

Drawing Number: 47-TN110

SHEET OF 100

VA FORM 08 - 6231

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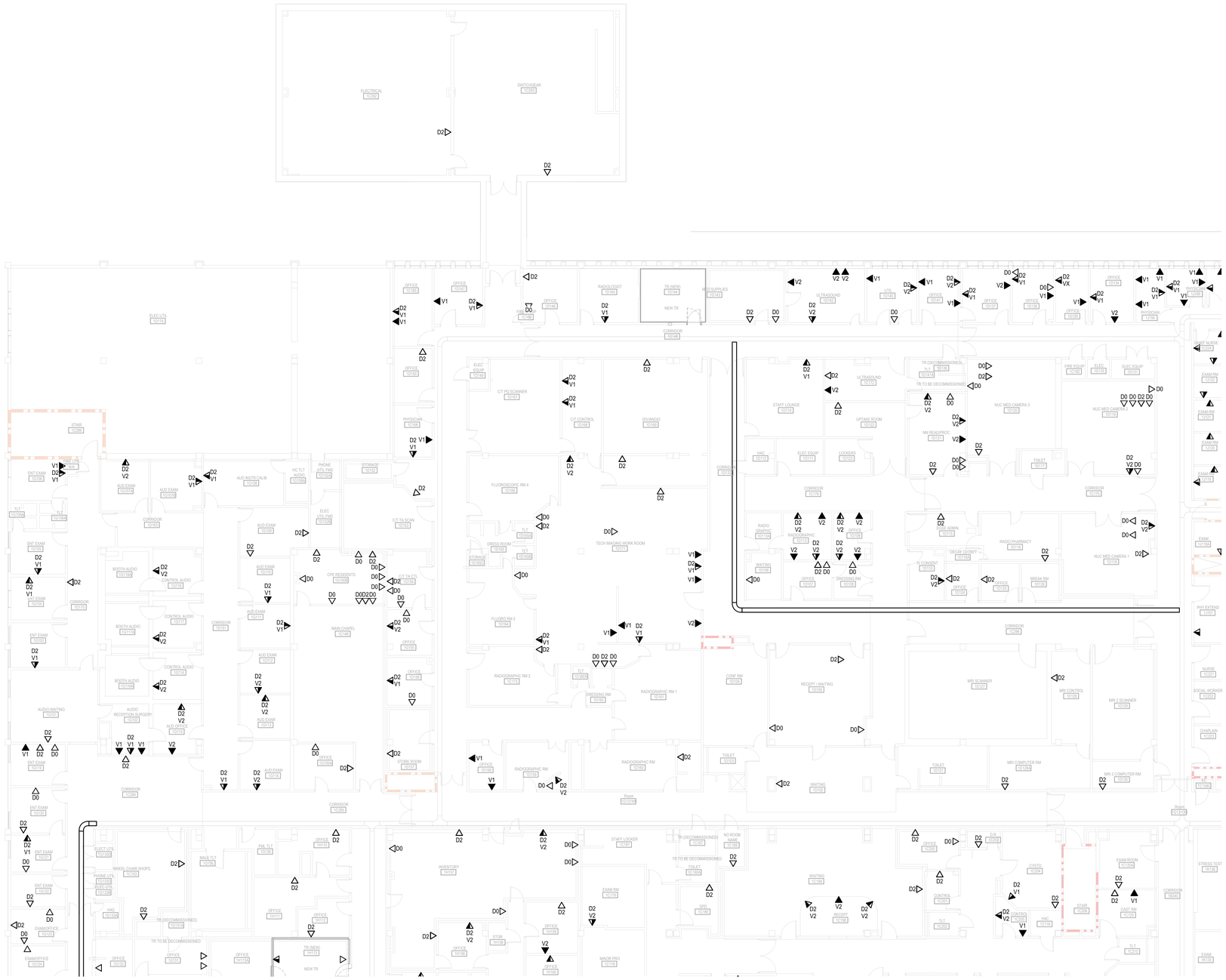

1 TELECOMMUNICATIONS 1ST FLOOR PLAN - PART A
3/32" = 1'-0"

SHEET NOTES:

GENERAL NOTES:

1. REFER TO 00-T001 FOR GENERAL NOTES AND LEGENDS.
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PARTITION LEGEND

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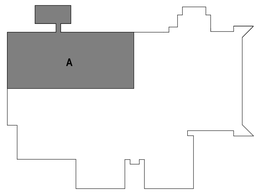
- FIRE BARRIER, 1 HR
- SMOKE BARRIER, 1/2 HR
- SMOKE RESISTIVE HAZARDOUS
- PATIENT SUIT/ NON SLEEPING

KEY PLAN



PLAN NORTH N

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

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Facilities Management Services

VA U.S. Department of Veterans Affairs

Drawing Title: TELECOMMUNICATIONS 1ST FLOOR PLAN - PART A

Approved:

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Phase: FINAL BID DOCUMENTS

Project Title: EHRM INFRASTRUCTURE UPGRADES

Project Number: 637-22-700

Building Number: BLDG 47

Location: 1100 TUNNEL ROAD ASHEVILLE, NC 28805

Issue Date: 12.19.2025

Checked:

Drawn:

Drawing Number: 47-TN111

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1 TELECOMMUNICATIONS 1ST FLOOR PLAN - PART B
3/32" = 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 REPLACED WITH CAT6A CABLING.
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PARTITION LEGEND

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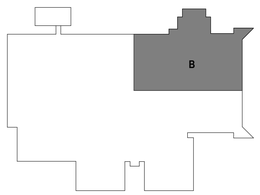
- FIRE BARRIER, 1 HR
- SMOKE BARRIER, 1/2 HR
- SMOKE RESISTIVE HAZARDOUS
- PATIENT SUIT/ NON SLEEPING

KEY PLAN



PLAN NORTH N

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

Revisions:	Date:

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Facilities Management Services

VA U.S. Department of Veterans Affairs

Drawing Title: TELECOMMUNICATIONS 1ST FLOOR PLAN - PART B

Phase: FINAL BID DOCUMENTS

Project Title: EHRM INFRASTRUCTURE UPGRADES

Project Number: 637-22-700

Building Number: BLDG 47

Approved:

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Location: 1100 TUNNEL ROAD ASHEVILLE, NC 28805

Issue Date: 12.19.2025

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Drawn

Drawing Number: 47-TN112

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1 TELECOMMUNICATIONS 1ST FLOOR PLAN - PART C
3/32" = 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 REPLACED WITH CAT6A CABLING.
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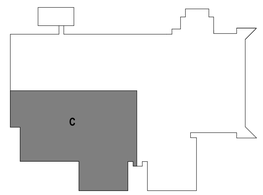
- PATIENT SUIT/ NON SLEEPING

KEY PLAN



PLAN NORTH N

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

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 1ST FLOOR PLAN - PART C

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 47

Drawing Number: 47-TN113

SHEET OF 100

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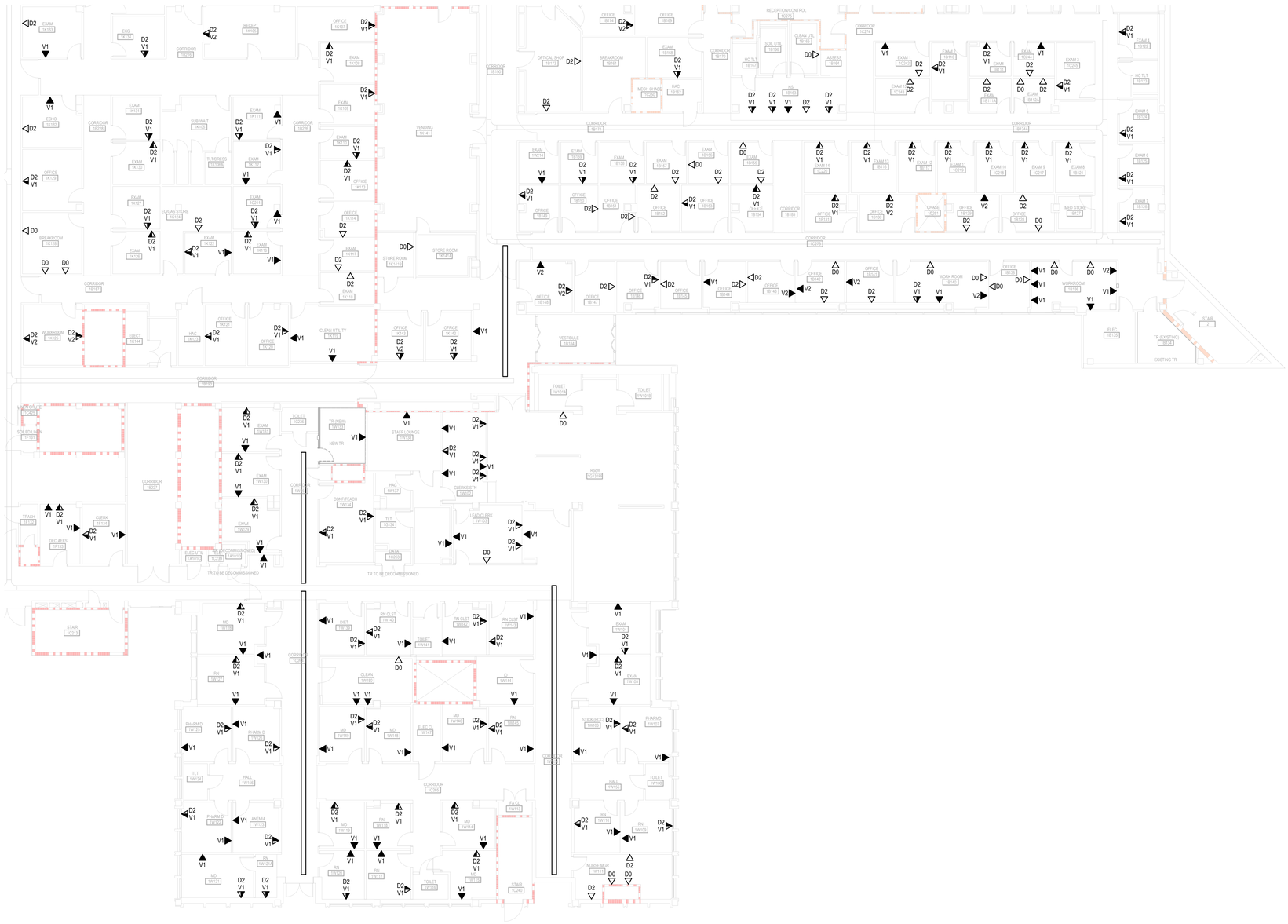

1 TELECOMMUNICATIONS 1ST FLOOR PLAN - PART D
3/32" = 1'-0"

SHEET NOTES:

GENERAL NOTES:

1. REFER TO 00-T001 FOR GENERAL NOTES AND LEGENDS.
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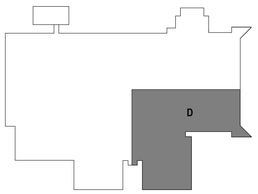
3. NOT ALL DEVICES ARE SHOWN. CONTRACTOR TO VERIFY ALL DATA OUTLET LOCATIONS IN THE FIELD.
4. THE QUANTITY OF TELECOM DROPS TO BE REMOVED, INSTALLED, AND MAINTAINED IS BASED ON THE INFORMATION KNOWN AT THE TIME OF DESIGN. PRIOR TO CONSTRUCTION, TELECOM DROP LOCATIONS SHALL BE SURVEYED. ANY DISCREPANCIES SHALL BE PROVIDED TO THE 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 AND ASSOCIATED CORRUGATED INNERDUCT SHALL BE ROUTED ON WIRE BASKET TRAY UNLESS NOTED OTHERWISE.
7. CONTRACTOR SHALL VERIFY THE COVERAGE AREA FOR EACH TELECOM ROOM. THE COVERAGE AREA ON THE DRAWINGS IS BASED ON THE INFORMATION KNOWN AT THE TIME OF DESIGN. THE INTENT OF THE DESIGN IS THAT ALL EXISTING DATA DROPS SHALL BE REFED FROM THE EXISTING TELECOM ROOM THAT THE EXISTING DATA DROP ORIGINATES FROM. IF THAT EXISTING TELECOM ROOM IS TO BE DEMOLISHED, THEN ROUTE THE DATA DROP TO THE NEAREST TELECOM ROOM.
8. NEW WORK AREA OUTLET/DATA DROP LOCATIONS FOR BUILDING 47 ARE CURRENTLY UNDER COORDINATION WITH THE PROJECT COR.

PARTITION LEGEND

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

KEY PLAN



PLAN NORTH N

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

Revisions:	Date:

ARCHITECT/ENGINEER OF RECORD

AWEN SOLUTIONS GROUP
ARCHITECTURE | ENGINEERING | PLANNING

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Expires 12-31-28
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12/18/2025

Facilities Management Services

VA U.S. Department of Veterans Affairs

Drawing Title: TELECOMMUNICATIONS 1ST FLOOR PLAN - PART D

Phase: FINAL BID DOCUMENTS

Project Title: EHRM INFRASTRUCTURE UPGRADES

Project Number: 637-22-700

Building Number: BLDG 47

Approved:

FOR OFFICIAL USE ONLY

Location: 1100 TUNNEL ROAD ASHEVILLE, NC 28805

Issue Date: 12.19.2025

Checked

Drawn

Drawing Number: 47-TN114

SHEET OF 100

VA FORM 08 - 6231

12/18/2025 6:00:57 PM

Autodesk Docs://Asheville EHRM_V23/637-22-700.047.E.ASH_EHRM.rvt

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

SHEET NOTES:

1. 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.
2. COVERAGE AREA FOR 2A246.
3. COVERAGE AREA FOR 2B212.
4. COVERAGE AREA FOR 2E205.
5. PROVIDE (3) 4" CONDUITS TO CABLE TRAY FOR HORIZONTAL DISTRIBUTION TO WORK AREA OUTLETS FOR EACH TELECOM ROOM . PROVIDED FIRE STOPPING AS REQUIRED (TYP).
6. PROVIDE (2) DIVERSELY ROUTED 4" CONDUITS CONTAINING (3) 1" CORRUGATED INNERDUCTS FOR BACKBONE FIBER.
7. PROVIDE (2) 4" CONDUITS EACH CONTAINING (3) 1" CORRUGATED INNERDUCTS FROM TR A301 TO SECOND FLOOR CABLE TRAY. BOTH CONDUITS TO CONTAIN (3) 12ST OS2 SINGLE MODE FIBER AND (3) 24ST OM4 SINGLE MODE FIBER, ONE SET FED FROM THE A SIDE MDA AND THE OTHER FED FROM THE B SIDE MDA IN BUILDING 47. FIBER GOING FROM TR 2E205 TO TR A301. ROUTE CONDUIT IN CEILING SPACE OF THE SECOND FLOOR. PROVIDE FIRE STOPPING AS REQUIRED.

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. NOT ALL DEVICES ARE SHOWN. CONTRACTOR TO VERIFY ALL DATA OUTLET LOCATIONS IN THE FIELD.
4. TTHE 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 AND ASSOCIATED CORRUGATED INNERDUCT SHALL BE ROUTED ON WIRE BASKET TRAY UNLESS NOTED OTHERWISE.
7. CONTRACTOR SHALL VERIFY THE COVERAGE AREA FOR EACH TELECOM ROOM. THE COVERAGE AREA ON THE DRAWINGS IS BASED ON THE INFORMATION KNOWN AT THE TIME OF DESIGN. THE INTENT OF THE DESIGN IS THAT ALL EXISTING DATA DROPS SHALL BE REFED FROM THE EXISTING TELECOM ROOM THAT THE EXISTING DATA DROP ORIGINATES FROM. IF THAT EXISTING TELECOM ROOM IS TO BE DEMOLISHED, THEN ROUTE THE DATA DROP TO THE NEAREST TELECOM ROOM.
8. NEW WORK AREA OUTLET/DATA DROP LOCATIONS FOR BUILDING 47 ARE CURRENTLY UNDER COORDINATION WITH THE PROJECT COR.
9. COPPER HORIZONTAL CABLE DISTANCE OF 262FT USED FOR BASIS OF COVERAGE.

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

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

Revisions:	Date:

ARCHITECT/ENGINEER OF RECORD

AWEN SOLUTIONS GROUP
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Facilities Management Services

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 47

Drawing Number: 47-TN120

SHEET OF 100

VA FORM 08 - 6231

12/18/2025 6:01:04 PM

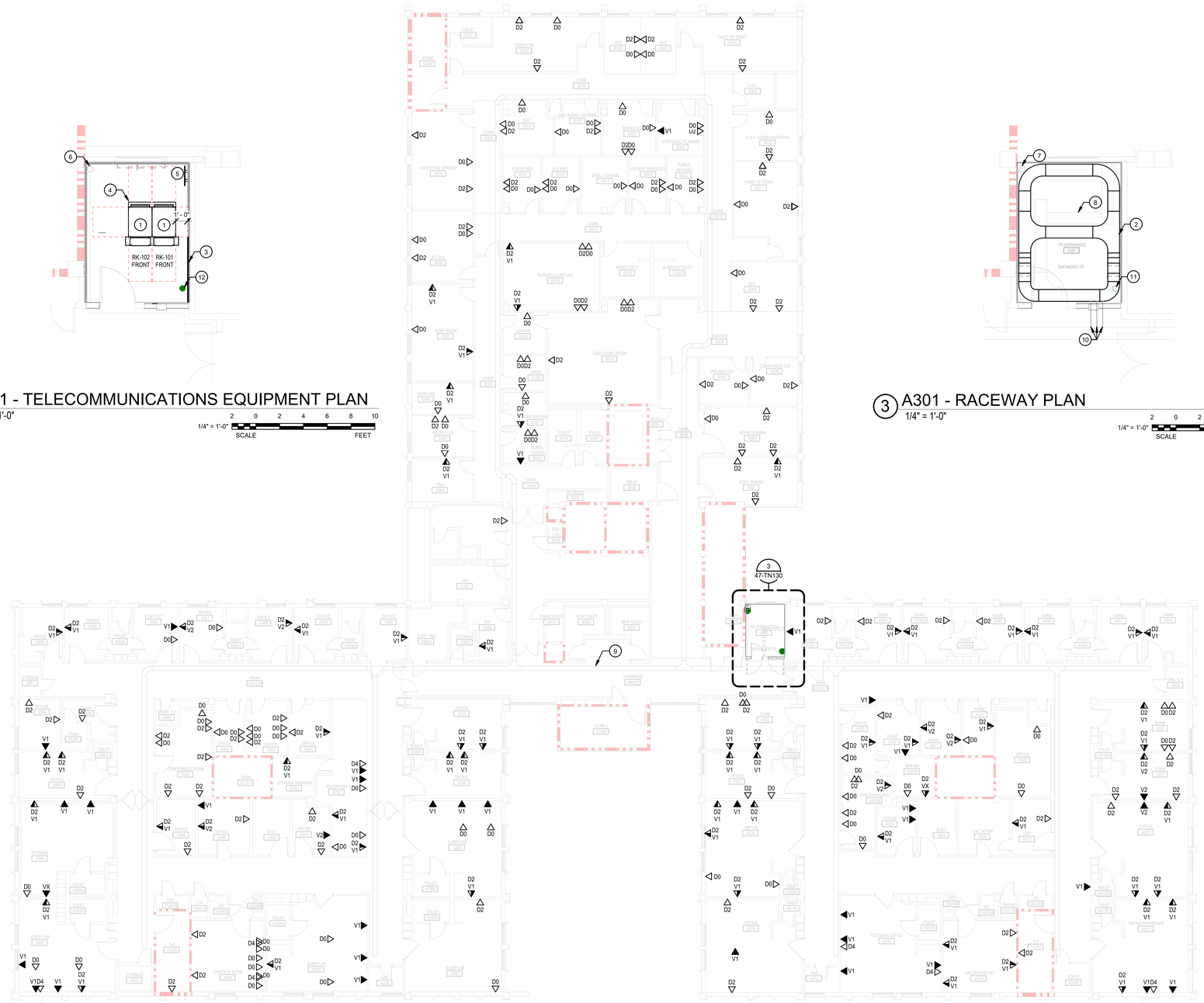
Autodesk Docs://Asheville EHRM, V23/637-22-700.047 E.ASH - EHRM.rvt

2 A301 - TELECOMMUNICATIONS EQUIPMENT PLAN
1/4" = 1'-0"

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

3 A301 - RACEWAY PLAN
1/4" = 1'-0"

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



1 TELECOMMUNICATIONS 3RD FLOOR PLAN
3/32" = 1'-0"

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

PLAN NORTH N

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. (TYP).
4. PROVIDE 6" VERTICAL CABLE MANAGEMENT AT THE ENDS OF THE RACKS AND BETWEEN EACH RACK.
5. LOCATION OF SECONDARY BONDING BUS BAR (SBB) ON PLYWOOD BACKBOARD. EXISTING SBB MAY BE USED IF IT HAS SUFFICIENT BONDING SPACES, OTHERWISE PROVIDE NEW SBB. REFER TO SHEET 00-T501 FOR GROUNDING AND BONDING DETAILS.
6. EXISTING CONDUIT TO 2ND FLOOR FROM TR A301. NEW BACKBONE FIBER MAY BE RUN IN EXISTING CONDUIT IF CONDUIT IS IN GOOD CONDITION AND THE NEW FIBER CABLES WILL NOT EXCEED MAX CONDUIT FILL RATIO OF 40%. PROVIDE (3) 1" CORRUGATED INNERDUCT FOR CONDUIT WHICH IS TO CONTAIN (3) 12ST OS1 SINGLE MODE FIBER AND (3) 24ST OM4 MULTIMODE FIBER, FED FROM THE B SIDE MDA IN THE NEW DATA CENTER. OTHERWISE PROVIDE NEW (1) 4" CONDUIT WITH (3) 1" CORRUGATED INNERDUCT GOING TO THE 2ND FLOOR CABLE TRAY AND PROVIDE FIBER AS DETAILED ABOVE. PROVIDE FIRE STOPPING AS REQUIRED.
7. EXISTING CONDUIT BETWEEN TRS A301 AND A401. NEW BACKBONE FIBER MAY BE RUN IN EXISTING CONDUIT IF CONDUIT IS IN GOOD CONDITION AND THE NEW FIBER CABLES WILL NOT EXCEED MAX CONDUIT FILL RATIO OF 40%. PROVIDE (3) 1" CORRUGATED INNERDUCT FOR CONDUIT WHICH IS TO CONTAIN (2) 12ST OS1 SINGLE MODE FIBER AND (2) 24ST OM4 MULTIMODE FIBER, FED FROM THE B SIDE MDA IN THE NEW DATA CENTER. OTHERWISE PROVIDE NEW (1) 4" CONDUIT WITH (3) 1" CORRUGATED INNERDUCT AND PROVIDE FIBER AS DETAILED ABOVE. 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. EXISTING CABLE TRAY TO REMAIN.
10. PROVIDE (3) 4" CONDUITS TO CABLE TRAY FOR HORIZONTAL DISTRIBUTION TO WORK AREA OUTLETS FOR EACH TELECOM ROOM . PROVIDED FIRE STOPPING AS REQUIRED.
11. PROVIDE (1) 4" CONDUIT WITH (3) 1" CORRUGATED INNERDUCTS FROM TR A301 TO TR A401. CONDUIT TO CONTAIN (2) 12ST OS1 SINGLE MODE FIBER AND (2) 24ST OM4 MULTIMODE FIBER, FED FROM THE A SIDE MDA IN THE NEW DATA CENTER. ROUTE CONDUIT IN CEILING SPACE OF TR A301 AND PROVIDE FIRE STOPPING AS REQUIRED.
12. PROVIDE (1) 4" CONDUIT WITH (3) 1" CORRUGATED INNERDUCTS FROM THE SECOND FLOOR CABLE TRAY TO TR A301. CONDUIT TO CONTAIN (3) 12ST OS1 SINGLE MODE FIBER AND (3) 24ST OM4 MULTIMODE FIBER, FED FROM THE A SIDE MDA IN THE NEW DATA CENTER. ROUTE CONDUIT IN CEILING SPACE OF THE SECOND FLOOR AND PROVIDE FIRE STOPPING AS REQUIRED.

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. 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 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. NEW CABLE TRAY IN TELECOM ROOMS TO BE MOUNTED ABOVE THE EXISTING CABLE TRAY. ENSURE 6 INCHES OF CLEARANCE BETWEEN NEW AND EXISTING CABLE TRAY.
8. NEW WORK AREA OUTLET/DATA DROP LOCATIONS FOR BUILDING 47 ARE CURRENTLY UNDER COORDINATION WITH THE PROJECT COR.
9. COPPER HORIZONTAL CABLE DISTANCE OF 262FT USED FOR BASIS OF COVERAGE.

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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12/18/2025

Facilities Management Services

VA U.S. Department of Veterans Affairs

Drawing Title: TELECOMMUNICATIONS 3RD 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 47

Drawing Number: 47-TN130

SHEET OF 100

VA FORM 08 - 6231

12/18/2025 6:01:09 PM

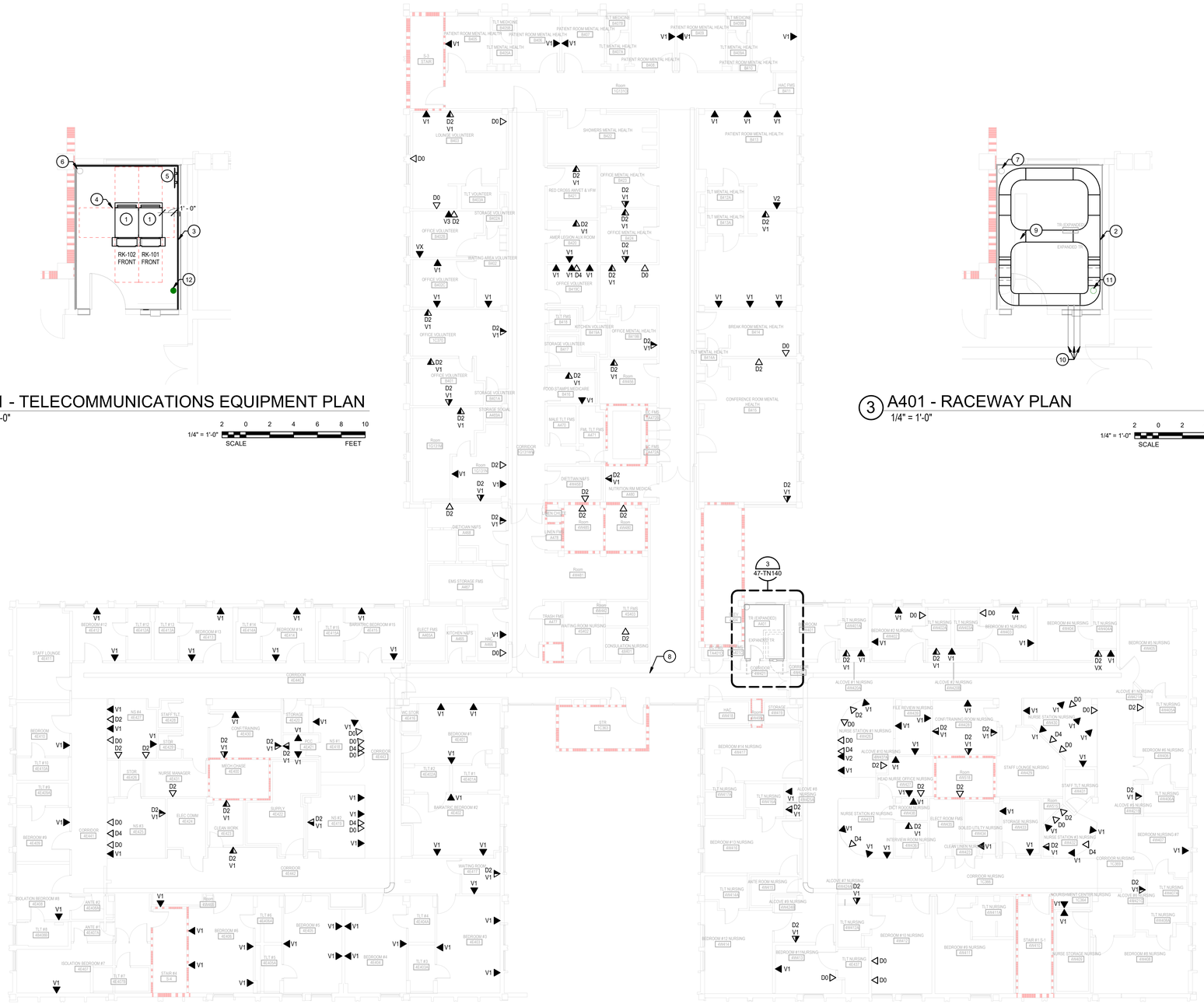
Autodesk Docs://Asheville EHRM_V23/637-22-700.047 E ASH - EHRM.rvt

2 A401 - TELECOMMUNICATIONS EQUIPMENT PLAN
1/4" = 1'-0"

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

3 A401 - RACEWAY PLAN
1/4" = 1'-0"

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



1 TELECOMMUNICATIONS 4TH FLOOR PLAN
3/32" = 1'-0"

3/32" = 1'-0" SCALE FEET

PLAN NORTH

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. (TYP).
4. PROVIDE 6" VERTICAL CABLE MANAGEMENT AT THE ENDS OF THE RACKS AND BETWEEN EACH RACK.
5. LOCATION OF SECONDARY BONDING BUS BAR (SBB) ON PLYWOOD BACKBOARD. EXISTING SBB MAY BE USED IF IT HAS SUFFICIENT BONDING SPACES, OTHERWISE PROVIDE NEW SBB. REFER TO SHEET 00-T001 FOR GROUNDING AND BONDING DETAILS.
6. EXISTING CONDUIT BETWEEN TRS A301 AND A401. NEW BACKBONE FIBER MAY BE RUN IN EXISTING CONDUIT IF CONDUIT IS IN GOOD CONDITION AND THE NEW FIBER CABLES WILL NOT EXCEED MAX CONDUIT FILL RATIO OF 40%. PROVIDE (3) 1" CORRUGATED INNERDUCT FOR CONDUIT WHICH IS TO CONTAIN (2) 12ST OS1 SINGLE MODE FIBER AND (2) 24ST OM4 MULTIMODE FIBER, FED FROM THE B SIDE MDA IN THE NEW DATA CENTER. OTHERWISE PROVIDE NEW (1) 4" CONDUIT WITH (3) 1" CORRUGATED INNERDUCT AND PROVIDE FIBER AS DETAILED ABOVE. PROVIDE FIRE STOPPING AS REQUIRED.
7. EXISTING CONDUIT BETWEEN TRS A401 AND A501. NEW BACKBONE FIBER MAY BE RUN IN EXISTING CONDUIT IF CONDUIT IS IN GOOD CONDITION AND THE NEW FIBER CABLES WILL NOT EXCEED MAX CONDUIT FILL RATIO OF 40%. PROVIDE (3) 1" CORRUGATED INNERDUCT FOR CONDUIT WHICH IS TO CONTAIN (1) 12ST OS1 SINGLE MODE FIBER AND (1) 24ST OM4 MULTIMODE FIBER, FED FROM THE B SIDE MDA IN THE NEW DATA CENTER. OTHERWISE PROVIDE NEW (1) 4" CONDUIT WITH (3) 1" CORRUGATED INNERDUCT AND PROVIDE FIBER AS DETAILED ABOVE. 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. EXISTING CABLE TRAY TO REMAIN.
10. PROVIDE (3) 4" CONDUITS TO CABLE TRAY FOR HORIZONTAL DISTRIBUTION TO WORK AREA OUTLETS FOR EACH TELECOM ROOM . PROVIDED FIRE STOPPING AS REQUIRED.
11. PROVIDE (1) 4" CONDUIT WITH (3) 1" CORRUGATED INNERDUCTS FROM TR A401 TO TR A501. CONDUIT TO CONTAIN (1) 12ST OS1 SINGLE MODE FIBER AND (1) 24ST OM4 MULTIMODE FIBER, FED FROM THE A SIDE MDA IN THE NEW DATA CENTER. ROUTE CONDUIT IN CEILING SPACE OF TR A401 AND PROVIDE FIRE STOPPING AS REQUIRED.
12. PROVIDE (1) 4" CONDUIT WITH (3) 1" CORRUGATED INNERDUCTS FROM TR A301 TO TR A401. CONDUIT TO CONTAIN (2) 12ST OS1 SINGLE MODE FIBER AND (2) 24ST OM4 MULTIMODE FIBER, FED FROM THE A SIDE MDA IN THE NEW DATA CENTER. ROUTE CONDUIT IN CEILING SPACE OF TR A301 AND PROVIDE FIRE STOPPING AS REQUIRED.

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. 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 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. NEW CABLE TRAY IN TELECOM ROOMS TO BE MOUNTED ABOVE THE EXISTING CABLE TRAY. ENSURE 6 INCHES OF CLEARANCE BETWEEN NEW AND EXISTING CABLE TRAY.
8. NEW WORK AREA OUTLET/DATA DROP LOCATIONS FOR BUILDING 47 ARE CURRENTLY UNDER COORDINATION WITH THE PROJECT COR.
9. COPPER HORIZONTAL CABLE DISTANCE OF 262FT USED FOR BASIS OF COVERAGE.

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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Expires:12-31-28
12/18/2025

Facilities Management Services

VA U.S. Department of Veterans Affairs

Drawing Title: TELECOMMUNICATIONS 4TH 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 47

Drawing Number: 47-TN140

SHEET OF 100

VA FORM 08 - 6231

Autodesk Docs://Asheville EHRM_V23/637-22-700.047 E ASH - EHRM.rvt

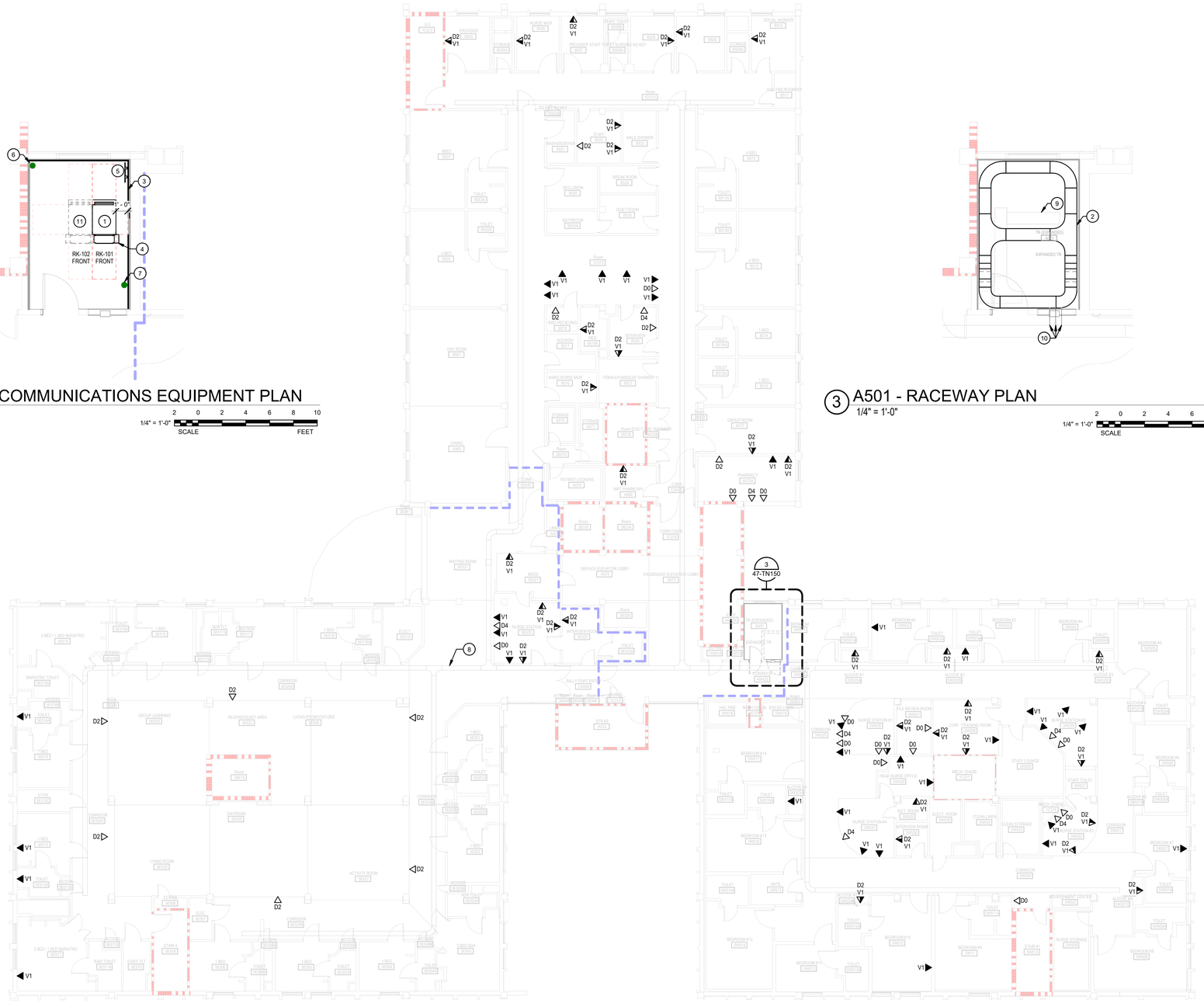
12/18/2025 6:01:15 PM

2 A501 - TELECOMMUNICATIONS EQUIPMENT PLAN
1/4" = 1'-0"

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

3 A501 - RACEWAY PLAN
1/4" = 1'-0"

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



1 TELECOMMUNICATIONS 5TH FLOOR PLAN
3/32" = 1'-0"

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

PLAN NORTH N

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. (TYP).
4. PROVIDE 6" VERTICAL CABLE MANAGEMENT AT THE ENDS OF THE RACKS AND BETWEEN EACH RACK.
5. LOCATION OF SECONDARY BONDING BUS BAR (SBB) ON PLYWOOD BACKBOARD. EXISTING SBB MAY BE USED IF IT HAS SUFFICIENT BONDING SPACES, OTHERWISE PROVIDE NEW SBB. REFER TO SHEET 00-T501 FOR GROUNDING AND BONDING DETAILS.
6. EXISTING CONDUIT BETWEEN TRS A401 AND A501. NEW BACKBONE FIBER MAY BE RUN IN EXISTING CONDUIT IF CONDUIT IS IN GOOD CONDITION AND THE NEW FIBER CABLES WILL NOT EXCEED MAX CONDUIT FILL RATIO OF 40%. PROVIDE (3) 1" CORRUGATED INNERDUCT FOR CONDUIT WHICH IS TO CONTAIN (1) 12ST OS1 SINGLE MODE FIBER AND (1) 24ST OM4 MULTIMODE FIBER, FED FROM THE B SIDE MDA IN THE NEW DATA CENTER. OTHERWISE PROVIDE NEW (1) 4" CONDUIT WITH (3) 1" CORRUGATED INNERDUCT AND PROVIDE FIBER AS DETAILED ABOVE. PROVIDE FIRE STOPPING AS REQUIRED.
7. PROVIDE (1) 4" CONDUIT WITH (3) 1" CORRUGATED INNERDUCTS FROM TR A401 TO TR A501. CONDUIT TO CONTAIN (1) 12ST OS1 SINGLE MODE FIBER AND (1) 24ST OM4 MULTIMODE FIBER, FED FROM THE A SIDE MDA IN THE NEW DATA CENTER. ROUTE CONDUIT IN CEILING SPACE OF TR A401 AND 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. EXISTING CABLE TRAY TO REMAIN.
10. PROVIDE (3) 4" CONDUITS TO CABLE TRAY FOR HORIZONTAL DISTRIBUTION TO WORK AREA OUTLETS FOR EACH TELECOM ROOM . PROVIDED FIRE STOPPING AS REQUIRED.
11. SPACE RESERVED FOR FUTURE 45U 4-POST CHANNEL RACK. NOT IN SCOPE.

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. 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 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. NEW CABLE TRAY IN TELECOM ROOMS TO BE MOUNTED ABOVE THE EXISTING CABLE TRAY. ENSURE 6 INCHES OF CLEARANCE BETWEEN NEW AND EXISTING CABLE TRAY.
8. NEW WORK AREA OUTLET/DATA DROP LOCATIONS FOR BUILDING 47 ARE CURRENTLY UNDER COORDINATION WITH THE PROJECT COR.
9. COPPER HORIZONTAL CABLE DISTANCE OF 262FT USED FOR BASIS OF COVERAGE.

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

AWEN SOLUTIONS GROUP
ARCHITECTURE | ENGINEERING | PLANNING

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Facilities Management Services

VA U.S. Department of Veterans Affairs

Drawing Title: TELECOMMUNICATIONS 5TH FLOOR PLAN

Phase: FINAL BID DOCUMENTS

Project Title: EHRM INFRASTRUCTURE UPGRADES

Project Number: 637-22-700

Building Number: BLDG 47

Approved:

FOR OFFICIAL USE ONLY

Location: 1100 TUNNEL ROAD ASHEVILLE, NC 28805

Issue Date: 12.19.2025

Checked:

Drawn:

Drawing Number: 47-TN150

SHEET OF 100

VA FORM 08 - 6231

Autodesk Docs://Asheville EHRM_V23/637-22-700.047 E ASH - EHRM.rvt

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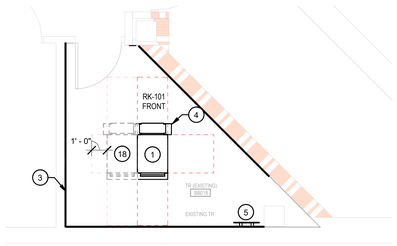
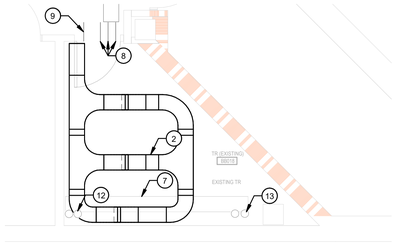
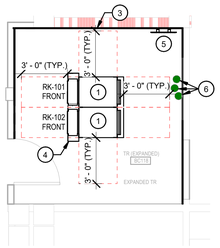


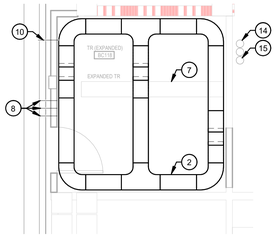
1 BB018 - EQUIPMENT PLAN
1/4" = 1'-0"



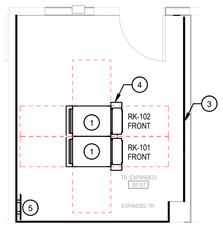
2 BB018 - RACEWAY PLAN
1/4" = 1'-0"



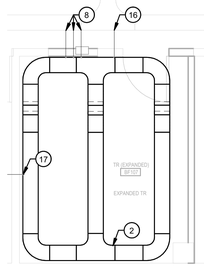
3 BC118 - TELECOMMUNICATIONS EQUIPMENT PLAN
1/4" = 1'-0"



4 BC118 - RACEWAY PLAN
1/4" = 1'-0"



5 BF107 - TELECOMMUNICATIONS EQUIPMENT PLAN
1/4" = 1'-0"



6 BF107 - RACEWAY PLAN
1/4" = 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. (TYP).
4. PROVIDE 6" VERTICAL CABLE MANAGEMENT AT THE ENDS OF THE RACKS AND BETWEEN EACH RACK.
5. LOCATION OF SECONDARY BONDING BUS BAR (SBB) ON PLYWOOD BACKBOARD. EXISTING SBB MAY BE USED IF IT HAS SUFFICIENT BONDING SPACES, OTHERWISE PROVIDE NEW SBB. REFER TO SHEET 00-T001 FOR GROUNDING AND BONDING DETAILS.
6. EXISTING CONDUITS TO REMAIN. NEW BACKBONE FIBER MAY BE RUN IN EXISTING CONDUITS IF CONDUITS ARE IN GOOD CONDITION AND THE NEW FIBER CABLES WILL NOT EXCEED MAX CONDUIT FILL RATIO OF 40%. PROVIDE (3) 1" CORRUGATED INNERDUCT FOR EACH CONDUIT. OTHERWISE PROVIDE NEW (3) 4" CONDUITS EACH WITH (3) 1" CORRUGATED INNERDUCT.
7. EXISTING CABLE TRAY TO REMAIN.
8. PROVIDE (3) 4" CONDUITS TO CABLE TRAY FOR HORIZONTAL DISTRIBUTION TO WORK AREA OUTLETS FOR EACH TELECOM ROOM. PROVIDED FIRE STOPPING AS REQUIRED.
9. PROVIDE (1) 4" CONDUIT FROM CABLE TRAY TO TR BB018 CONTAINING (3) 1" CORRUGATED INNERDUCTS FOR B SIDE BACKBONE FIBER. CONDUIT TO CONTAIN (5) 12ST OS1 SINGLE MODE FIBER AND (5) 24ST OM4 MULTI MODE FIBER FED FROM THE B SIDE MDA. SEE SHEET 47-TN600 FOR DETAILS ON THE DISTRIBUTION OF BACKBONE FIBER. PROVIDE FIRE STOPPING AS REQUIRED.
10. PROVIDE (1) 4" CONDUIT FROM CABLE TRAY TO TR BC118 CONTAINING (3) 1" CORRUGATED INNERDUCTS FOR A SIDE BACKBONE FIBER. CONDUIT TO CONTAIN (9) 12ST OS1 SINGLE MODE FIBER AND (9) 24ST OM4 MULTI MODE FIBER FED FROM THE A SIDE MDA. SEE SHEET 47-TN600 FOR DETAILS ON THE DISTRIBUTION OF BACKBONE FIBER. PROVIDE FIRE STOPPING AS REQUIRED.
11. PROVIDE (1) 4" CONDUIT FROM CABLE TRAY TO TR BF107 CONTAINING (3) 1" CORRUGATED INNERDUCTS FOR B SIDE BACKBONE FIBER. CONDUIT TO CONTAIN (9) 12ST OS1 SINGLE MODE FIBER AND (9) 24ST OM4 MULTI MODE FIBER FED FROM THE B SIDE MDA. SEE SHEET 47-TN600 FOR DETAILS ON THE DISTRIBUTION OF BACKBONE FIBER. PROVIDE FIRE STOPPING AS REQUIRED.
12. PROVIDE (3) 1" CORRUGATED INNERDUCT IN ONE (1) OF THE EXISTING CONDUITS BETWEEN TRS BB018 AND 1B134 FOR B SIDE BACKBONE FIBER. CONDUIT TO CONTAIN (4) 12ST OS1 SINGLE MODE FIBER AND (4) 24ST OM4 MULTI MODE FIBER, ROUTING TO TR 1B134. SEE SHEET 47-TN600 FOR DETAILS ON THE DISTRIBUTION OF BACKBONE FIBER. PROVIDE FIRE STOPPING AS REQUIRED.
13. PROVIDE (3) 1" CORRUGATED INNERDUCT IN ONE (1) OF THE EXISTING CONDUITS BETWEEN TRS BB018 AND 1B134 FOR A SIDE BACKBONE FIBER. EXISTING CONDUIT TO BE USED FOR A SIDE FIBER SHALL BE SUFFICIENTLY SEPARATED FROM THE ONE CONTAINING B SIDE FIBER. CONDUIT TO CONTAIN (1) 12ST OS1 SINGLE MODE FIBER AND (1) 24ST OM4 MULTI MODE FIBER, ROUTED FROM TR 1B134. SEE SHEET 47-TN600 FOR DETAILS ON THE DISTRIBUTION OF BACKBONE FIBER. PROVIDE FIRE STOPPING AS REQUIRED.
14. PROVIDE (3) 1" CORRUGATED INNERDUCT IN ONE (1) OF THE EXISTING CONDUITS NEAR TR BC118 GOING TO THE FLOOR ABOVE FOR A SIDE BACKBONE FIBER. CONDUIT WILL NEED NEW WORK DONE SO THAT IT ROUTES TO THE CABLE TRAY ON THE 1ST FLOOR. CONDUIT TO CONTAIN (8) 12ST OS1 SINGLE MODE FIBER AND (8) 24ST OM4 MULTI MODE FIBER FED ROUTING TO TR 1W133. SEE SHEET 47-TN600 FOR DETAILS ON THE DISTRIBUTION OF BACKBONE FIBER AND 47-TN110 FOR CONDUIT ROUTING. PROVIDE FIRE STOPPING AS REQUIRED.
15. PROVIDE (3) 1" CORRUGATED INNERDUCT IN ONE (1) OF THE EXISTING CONDUITS NEAR TR BC118 GOING TO THE FLOOR ABOVE FOR B SIDE BACKBONE FIBER. CONDUIT WILL NEED NEW WORK DONE SO THAT IT ROUTES TO THE CABLE TRAY ON THE 1ST FLOOR. CONDUIT TO CONTAIN (1) 12ST OS1 SINGLE MODE FIBER AND (1) 24ST OM4 MULTI MODE FIBER, ROUTED FROM TR 1W133. SEE SHEET 47-TN600 FOR DETAILS ON THE DISTRIBUTION OF BACKBONE FIBER AND 47-TN110 FOR CONDUIT ROUTING. PROVIDE FIRE STOPPING AS REQUIRED.
16. PROVIDE (1) 4" CONDUIT FROM CABLE TRAY TO TR BF107 CONTAINING (3) 1" CORRUGATED INNERDUCTS FOR B SIDE BACKBONE FIBER. CONDUIT TO CONTAIN (1) 12ST OS1 SINGLE MODE FIBER AND (1) 24ST OM4 MULTI MODE FIBER FED FROM THE B SIDE MDA. SEE SHEET 47-TN600 FOR DETAILS ON THE DISTRIBUTION OF BACKBONE FIBER. PROVIDE FIRE STOPPING AS REQUIRED.
17. PROVIDE (1) 4" CONDUIT FROM CABLE TRAY TO TR BF107 CONTAINING (3) 1" CORRUGATED INNERDUCTS FOR A SIDE BACKBONE FIBER. CONDUIT TO CONTAIN (1) 12ST OS1 SINGLE MODE FIBER AND (1) 24ST OM4 MULTI MODE FIBER, ROUTED FROM TR 1H113. SEE SHEET 47-TN600 FOR DETAILS ON THE DISTRIBUTION OF BACKBONE FIBER AND 47-TN100 FOR CONDUIT ROUTING. PROVIDE FIRE STOPPING AS REQUIRED.
18. SPACE RESERVED FOR FUTURE 45U 4-POST CHANNEL RACK. NOT IN SCOPE.

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. NOT ALL DEVICES ARE SHOWN. CONTRACTOR TO VERIFY ALL DATA OUTLET LOCATIONS IN THE FIELD.
4. PROVIDE NEW CAT6A RATED TELECOMMUNICATION EQUIPMENT, PLYWOOD, CABLING AND INFRASTRUCTURE. EXISTING TELECOMMUNICATION EQUIPMENT, PLYWOOD, CABLING AND INFRASTRUCTURE MAY BE USED IF CAT6A RATED AND IN GOOD CONDITION.
5. ALL ROUTING FOR NEW BACKBONE CABLE SHALL BE ROUTED IN CORRUGATED INNERDUCT.
6. NEW CABLE TRAY TO BE MOUNTED ABOVE THE EXISTING CABLE TRAY. ENSURE 6 INCHES OF CLEARANCE BETWEEN NEW AND EXISTING CABLE TRAY.

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

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

Revisions:	Date:

ARCHITECT/ENGINEER OF RECORD

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ARCHITECTURE | ENGINEERING | PLANNING

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Expires 12-31-28
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12/18/2025

Facilities Management Services

VA U.S. Department of Veterans Affairs

Drawing Title: TELECOMMUNICATIONS ENLARGED BASEMENT PLANS

Phase: FINAL BID DOCUMENTS

Project Title: EHRM INFRASTRUCTURE UPGRADES

Project Number: 637-22-700

Building Number: BLDG 47

Approved:

FOR OFFICIAL USE ONLY

Location: 1100 TUNNEL ROAD ASHEVILLE, NC 28805

Issue Date: 12.19.2025

Checked

Drawn

Drawing Number: 47-TN400

SHEET OF 100

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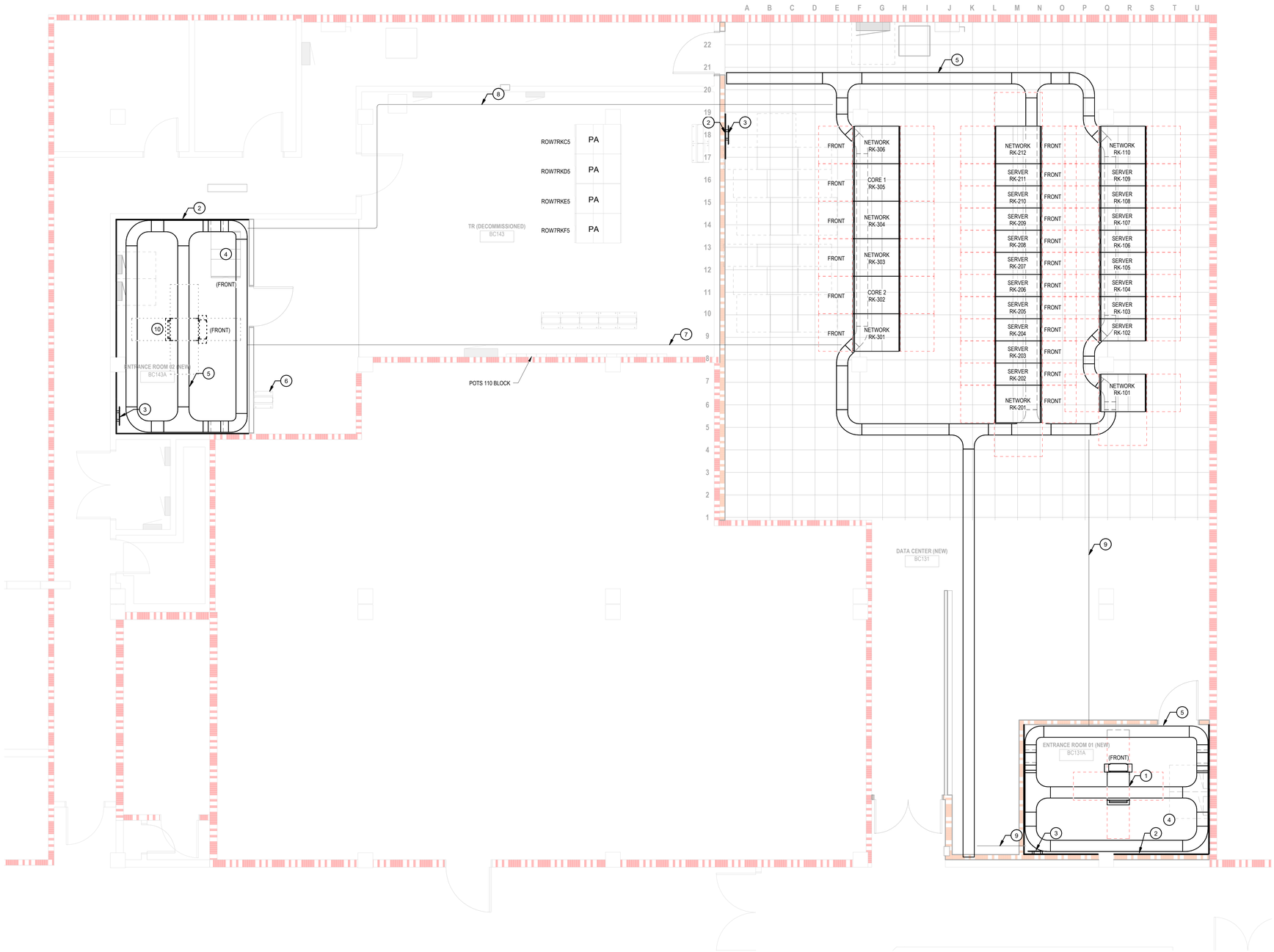

1 TELECOMMUNICATIONS DATA CENTER
1/4" = 1'-0"

SHEET NOTES:

1. PROVIDE 45U 4-POST CHANNEL RACK FOR ISP EQUIPMENT.
2. PROVIDE 4' BY 8' AC GRADE 3/4" TRADE SIZE PLYWOOD BACKBOARD PAINTED HIGH-GLOSS WHITE WITH TWO COATS OF FIRE RESISTANT PAINT.
3. PROVIDE PRIMARY BONDING BUS BAR (PBB) OR SECONDARY BONDING BUS BAR (SBB) ON PLYWOOD BACKBOARD. REFER TO SHEET 00-T501 FOR GROUNDING AND BONDING DETAILS.
4. RACK CONTAINING THE DEMARC LOCATION FOR BOTH CL AND AT&T ISPS TO REMAIN. IF FEASIBLE, COORDINATE WITH VA COR AND EACH INDIVIDUAL INTERNET SERVICE PROVIDERS FOR ISP DEMARC LOCATIONS.
5. PROVIDE WIRE BASKET CABLE TRAY (TYP).
6. EXISTING DAS RACK TO REMAIN. CONTRACTOR TO PROTECT RACK DURING CONSTRUCTION OF NEW WALL. ADJUST RACK LOCATION AS REQUIRED TO AVOID CONFLICT WITH NEW WALL.
7. PROVIDE (1) 4" CONDUIT WITH 3"- 3 CELL INNER DUCT FROM ENTRANCE ROOM BC143A TO CABLE TRAY OF NEW DATA CENTER. PROVIDE 24ST OM4 & 12ST OS2 FIBER FOR AT&T AND 24ST OM4 & 12ST OS2 FOR CL FROM ENTRANCE ROOM BC143A TO RK-302. COORDINATE ROUTING WITH IN FIELD TO AVOID OBSTRUCTIONS. PROVIDE FIRESTOPPING FOR ALL FIRE WALL PENETRATIONS.
8. PROVIDE (1) 4" CONDUIT WITH 3"- 3 CELL INNER DUCT FROM ENTRANCE ROOM BC143A TO CABLE TRAY OF NEW DATA CENTER. PROVIDE 24ST OM4 & 12ST OS2 FIBER FOR AT&T AND 24ST OM4 & 12ST OS2 FOR CL FROM ENTRANCE ROOM BC143A TO RK-305. COORDINATE ROUTING WITH IN FIELD TO AVOID OBSTRUCTIONS. PROVIDE FIRESTOPPING FOR ALL FIRE WALL PENETRATIONS.
9. PROVIDE (1) 4" CONDUIT WITH 3"- 3 CELL INNER DUCT FROM ENTRANCE ROOM BC131A TO CABLE TRAY OF NEW DATA CENTER. COORDINATE ROUTING WITH IN FIELD TO AVOID OBSTRUCTIONS. PROVIDE FIRESTOPPING FOR ALL FIRE WALL PENETRATIONS.
10. SPACE RESERVED FOR FUTURE 45U 4-POST CHANNEL RACK TO HOUSE THE DEMARC LOCATION FOR ONE OF THE INTERNET SERVICE PROVIDERS. NOT IN SCOPE.

GENERAL NOTES:

1. PROVIDE NEW SERVER AND NETWORK CABINETS.
2. PRIOR TO CONSTRUCTION, COORDINATION OF EQUIPMENT WITH VA COR IS REQUIRED. SYSTEM OWNERS WERE UNKNOWN AT TIME OF DESIGN. DESIGN INTENT IS TO MIRROR EXISTING SYSTEMS IN NEW DATA CENTER THEN DEMOLISH THE OLD SYSTEMS. HOWEVER, THERE ARE SYSTEMS THAT WILL NEED TO BE TAKEN DOWN DURING CONSTRUCTION, COORDINATE THESE WITH SYSTEM OWNERS AND VA COR.
3. REFER TO DRAWING GC-101 AND SPECIFICATION 01 00 00 FOR ADDITIONAL PHASING INFORMATION.

NEW DATA CENTER CABINET REFERENCE

NEW CABINET #	ADDITIONAL INFORMATION	SYSTEM OWNER
RK-101	NEW HDA B SIDE NETWORK CABINET	VA
RK-102	EXISTING NURSE CALL SERVER CABINET	UNKNOWN
RK-103	EXISTING BMS & BIOMED 2 SERVER CABINETS	UNKNOWN & BIOMED
RK-104	EXISTING BIOMED 5 SERVER CABINET	BIOMED
RK-105	EXISTING BIOMED 3 SERVER CABINET	BIOMED
RK-106	EXISTING BIOMED 1 SERVER CABINET	BIOMED
RK-107	EXISTING ROW1RKO23 SERVER CABINET	BIOMED
RK-108	EXISTING ROW1RKO24 & BIOMED 4 SERVER CABINETS	BIOMED
RK-109	EXISTING ROW1RKO25 & ROW1RKJ16 SERVER CABINETS	BIOMED
RK-110	NEW HDA A SIDE NETWORK CABINET	VA
RK-201	NEW HDA B SIDE NETWORK CABINET	VA
RK-202	EXISTING ROW3RKL26 & ROW4RKJ18 SERVER CABINETS	UNKNOWN
RK-203	EXISTING ROW3RKL22 SERVER CABINET	IMAGING
RK-204	EXISTING ROW3RKL23 SERVER CABINET	IMAGING
RK-205	EXISTING ROW3RKL24 SERVER CABINET	IMAGING
RK-206	EXISTING ROW3RKL25 SERVER CABINET	IMAGING
RK-207	EXISTING ROW2RKM18 & ROW3RKL21 SERVER CABINETS	UNKNOWN
RK-208	EXISTING ROW4RKJ15 SERVER CABINET	BIOMED AND VOIP
RK-209	EXISTING ROW4RKJ17 SERVER CABINET	BIOMED AND PHARMA AUDIO
RK-210	NEW CERNER SERVER CABINET	VA
RK-211	NEW CERNER SERVER CABINET	VA
RK-212	NEW HDA A SIDE NETWORK CABINET	VA
RK-301	NEW MDA B SIDE NETWORK CABINET	VA
RK-302	NEW MDA B SIDE NETWORK CABINET	VA
RK-303	NEW MDA B SIDE NETWORK CABINET	VA
RK-304	NEW MDA A SIDE NETWORK CABINET	VA
RK-305	NEW MDA A SIDE NETWORK CABINET	VA
RK-306	NEW MDA A SIDE NETWORK CABINET	VA

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

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

Revisions:	Date:

ARCHITECT/ENGINEER OF RECORD

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Facilities Management Services

VA U.S. Department of Veterans Affairs

Drawing Title: TELECOMMUNICATIONS DATA CENTER

Phase: FINAL BID DOCUMENTS

Project Title: EHRM INFRASTRUCTURE UPGRADES

Project Number: 637-22-700

Building Number: BLDG 47

Approved:

FOR OFFICIAL USE ONLY

Location: 1100 TUNNEL ROAD ASHEVILLE, NC 28805

Issue Date: 12.19.2025

Checked

Drawn

Drawing Number: 47-TN401

SHEET OF 100

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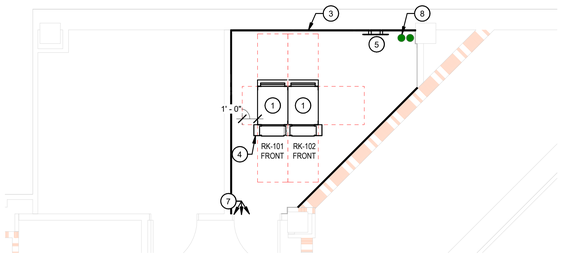
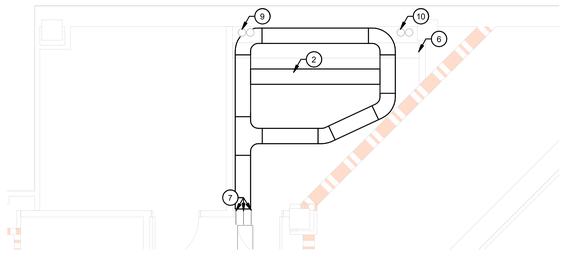
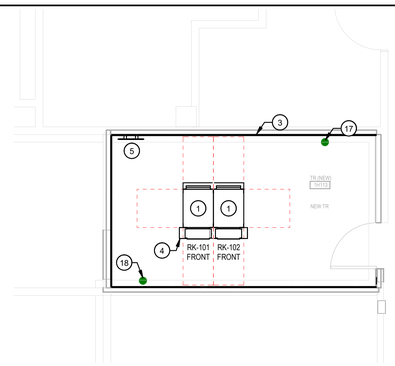


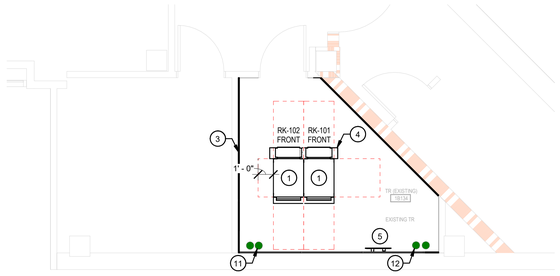
1 1A136 - TELECOMMUNICATIONS EQUIPMENT PLAN
1/4" = 1'-0"



2 1A136 - RACEWAY PLAN
1/4" = 1'-0"



3 1H113 - TELECOMMUNICATIONS EQUIPMENT PLAN
1/4" = 1'-0"



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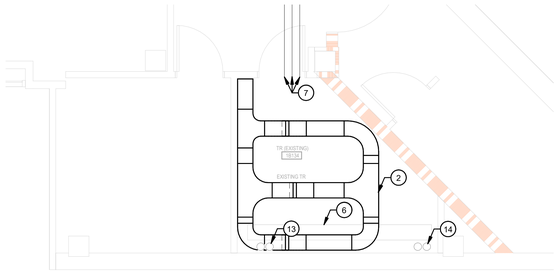
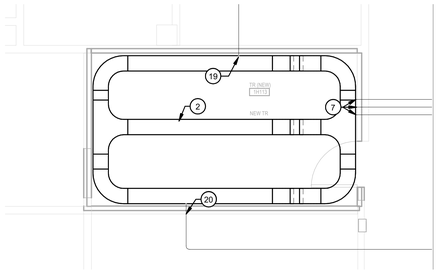
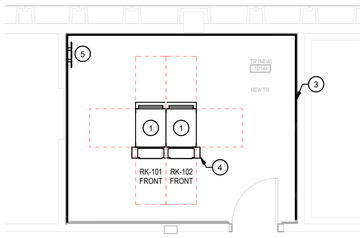
1/4" = 1'-0"



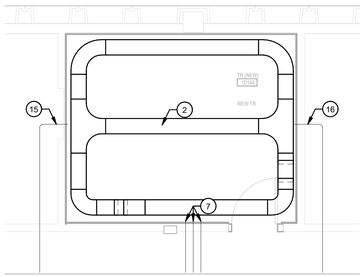
5 1B134 - RACEWAY PLAN
1/4" = 1'-0"



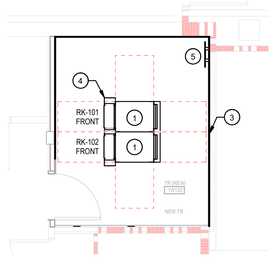
6 1H113 - RACEWAY PLAN
1/4" = 1'-0"



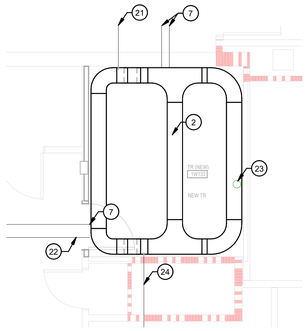
7 1D144 - TELECOMMUNICATIONS EQUIPMENT PLAN
1/4" = 1'-0"



8 1D144 - RACEWAY PLAN
1/4" = 1'-0"



9 1W133 - TELECOMMUNICATIONS EQUIPMENT PLAN
1/4" = 1'-0"



10 1W133 - RACEWAY PLAN
1/4" = 1'-0"

PARTITION LEGEND

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

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. (TYP).
4. PROVIDE 6" VERTICAL CABLE MANAGEMENT AT THE ENDS OF THE RACKS AND BETWEEN EACH RACK.
5. LOCATION OF SECONDARY BONDING BUS BAR (SBB) ON PLYWOOD BACKBOARD. EXISTING SBB MAY BE USED IF IT HAS SUFFICIENT BONDING SPACES, OTHERWISE PROVIDE NEW SBB. REFER TO SHEET 00-T501 FOR GROUNDING AND BONDING DETAILS.
6. EXISTING CABLE TRAY TO REMAIN.
7. PROVIDE (3) 4" CONDUITS TO CABLE TRAY FOR HORIZONTAL DISTRIBUTION TO WORK AREA OUTLETS FOR EACH TELECOM ROOM. PROVIDED FIRE STOPPING AS REQUIRED.
8. PROVIDE (3) 1" CORRUGATED INNERDUCT IN ONE (1) OF THE EXISTING CONDUITS BETWEEN THE BASEMENT AND 1A136 FOR A SIDE BACKBONE FIBER. CONDUIT TO CONTAIN (5) 12ST OS1 SINGLE MODE FIBER AND (5) 24ST OM4 MULTI MODE FIBER FED FROM THE A SIDE MDA ON THE FLOOR BELOW. SEE SHEET 47-TN600 FOR DETAILS ON THE DISTRIBUTION OF BACKBONE FIBER. PROVIDE FIRE STOPPING AS REQUIRED.
9. PROVIDE (3) 1" CORRUGATED INNERDUCT IN ONE (1) OF THE EXISTING CONDUITS BETWEEN TRS 1A136 AND 2A246 FOR B SIDE BACKBONE FIBER. CONDUIT TO CONTAIN (1) 12ST OS1 SINGLE MODE FIBER AND (1) 24ST OM4 MULTI MODE FIBER, ROUTED FROM TR 2A246. SEE SHEET 47-TN600 FOR DETAILS ON THE DISTRIBUTION OF BACKBONE FIBER. PROVIDE FIRE STOPPING AS REQUIRED.
10. PROVIDE (3) 1" CORRUGATED INNERDUCT IN ONE (1) OF THE EXISTING CONDUITS BETWEEN TRS 1A136 AND 2A246 FOR A SIDE BACKBONE FIBER. EXISTING CONDUIT TO BE USED FOR A SIDE FIBER SHALL BE SUFFICIENTLY SEPARATED FROM THE ONE CONTAINING B SIDE FIBER. CONDUIT TO CONTAIN (4) 12ST OS1 SINGLE MODE FIBER AND (4) 24ST OM4 MULTI MODE FIBER ROUTING TO TR 2A246. SEE SHEET 47-TN600 FOR DETAILS ON THE DISTRIBUTION OF BACKBONE FIBER. PROVIDE FIRE STOPPING AS REQUIRED.
11. PROVIDE (3) 1" CORRUGATED INNERDUCT IN ONE (1) OF THE EXISTING CONDUITS BETWEEN TRS BB018 AND 1B134 FOR B SIDE BACKBONE FIBER. CONDUIT TO CONTAIN (4) 12ST OS1 SINGLE MODE FIBER AND (4) 24ST OM4 MULTI MODE FIBER ROUTED FROM TR BB018. SEE SHEET 47-TN600 FOR DETAILS ON THE DISTRIBUTION OF BACKBONE FIBER. PROVIDE FIRE STOPPING AS REQUIRED.
12. PROVIDE (3) 1" CORRUGATED INNERDUCT IN ONE (1) OF THE EXISTING CONDUITS BETWEEN TRS BB018 AND 1B134 FOR A SIDE BACKBONE FIBER. EXISTING CONDUIT TO BE USED FOR A SIDE FIBER SHALL BE SUFFICIENTLY SEPARATED FROM THE ONE CONTAINING B SIDE FIBER. CONDUIT TO CONTAIN (1) 12ST OS1 SINGLE MODE FIBER AND (1) 24ST OM4 MULTI MODE FIBER, ROUTING TO BB018. SEE SHEET 47-TN600 FOR DETAILS ON THE DISTRIBUTION OF BACKBONE FIBER. PROVIDE FIRE STOPPING AS REQUIRED.
13. PROVIDE (3) 1" CORRUGATED INNERDUCT IN ONE (1) OF THE EXISTING CONDUITS BETWEEN TRS 1B134 AND 2B212 FOR B SIDE BACKBONE FIBER. CONDUIT TO CONTAIN (3) 12ST OS1 SINGLE MODE FIBER AND (3) 24ST OM4 MULTI MODE FIBER. ROUTING TO TR 2B212. SEE SHEET 47-TN600 FOR DETAILS ON THE DISTRIBUTION OF BACKBONE FIBER. PROVIDE FIRE STOPPING AS REQUIRED.
14. PROVIDE (3) 1" CORRUGATED INNERDUCT IN ONE (1) OF THE EXISTING CONDUITS BETWEEN TRS 1B134 AND 2B212 FOR A SIDE BACKBONE FIBER. EXISTING CONDUIT TO BE USED FOR A SIDE FIBER SHALL BE SUFFICIENTLY SEPARATED FROM THE ONE CONTAINING B SIDE FIBER. CONDUIT TO CONTAIN (2) 12ST OS1 SINGLE MODE FIBER AND (2) 24ST OM4 MULTI MODE FIBER, ROUTED FROM 2B212. SEE SHEET 47-TN600 FOR DETAILS ON THE DISTRIBUTION OF BACKBONE FIBER. PROVIDE FIRE STOPPING AS REQUIRED.
15. PROVIDE (1) 4" CONDUIT FROM CABLE TRAY TO TR 1D144 CONTAINING (3) 1" CORRUGATED INNERDUCTS FOR B SIDE BACKBONE FIBER. CONDUIT TO CONTAIN (1) 12ST OS1 SINGLE MODE FIBER AND (1) 24ST OM4 MULTI MODE FIBER, ROUTED FROM TR 1H113. SEE SHEET 47-TN600 FOR DETAILS ON THE DISTRIBUTION OF BACKBONE FIBER. PROVIDE FIRE STOPPING AS REQUIRED.
16. PROVIDE (1) 4" CONDUIT FROM CABLE TRAY TO TR 1D144 CONTAINING (3) 1" CORRUGATED INNERDUCTS FOR A SIDE BACKBONE FIBER. CONDUIT TO ENTER ROOM ON SIDE OPPOSITE TO THE CONDUIT CONTAINING B SIDE FIBER. CONDUIT TO CONTAIN (1) 12ST OS1 SINGLE MODE FIBER AND (1) 24ST OM4 MULTI MODE FIBER, ROUTED FROM TR 1W133. SEE SHEET 47-TN600 FOR DETAILS ON THE DISTRIBUTION OF BACKBONE FIBER. PROVIDE FIRE STOPPING AS REQUIRED.
17. PROVIDE (1) 4" CONDUIT FROM BASEMENT CABLE TRAY TO TR 1H113 CONTAINING (3) 1" CORRUGATED INNERDUCTS FOR B SIDE BACKBONE FIBER. CONDUIT TO CONTAIN (8) 12ST OS1 SINGLE MODE FIBER AND (8) 24ST OM4 MULTI MODE FIBER, FED FROM THE B SIDE MDA ON THE FLOOR BELOW. SEE SHEET 47-TN600 FOR DETAILS ON THE DISTRIBUTION OF BACKBONE FIBER. PROVIDE FIRE STOPPING AS REQUIRED.
18. PROVIDE (1) 4" CONDUIT FROM BASEMENT CABLE TRAY TO TR 1H113 CONTAINING (3) 1" CORRUGATED INNERDUCTS FOR A SIDE BACKBONE FIBER. CONDUIT TO CONTAIN (1) 12ST OS1 SINGLE MODE FIBER AND (1) 24ST OM4 MULTI MODE FIBER, ROUTING TO TR BF107. SEE SHEET 47-TN600 FOR DETAILS ON THE DISTRIBUTION OF BACKBONE FIBER. PROVIDE FIRE STOPPING AS REQUIRED.
19. PROVIDE (1) 4" CONDUIT FROM CABLE TRAY TO TR 1H113 CONTAINING (3) 1" CORRUGATED INNERDUCTS FOR B SIDE BACKBONE FIBER. CONDUIT TO CONTAIN (7) 12ST OS1 SINGLE MODE FIBER AND (7) 24ST OM4 MULTI MODE FIBER. ROUTE (1) OF THESE SETS TO TR 1D144, (1) SET TO TR BC118, AND THE REMAINING (5) SETS TO TR 1W133. SETS TO TR 1W133. SEE SHEET 47-TN600 FOR DETAILS ON THE DISTRIBUTION OF BACKBONE FIBER AND SHEET 47-TN110 FOR ROUTING DETAILS. PROVIDE FIRE STOPPING AS REQUIRED.
20. PROVIDE (1) 4" CONDUIT FROM CABLE TRAY TO TR 1H113 CONTAINING (3) 1" CORRUGATED INNERDUCTS FOR A SIDE BACKBONE FIBER. CONDUIT TO ENTER ROOM ON SIDE OPPOSITE TO THE CONDUIT CONTAINING B SIDE FIBER. CONDUIT TO CONTAIN (2) 12ST OS1 SINGLE MODE FIBER AND (2) 24ST OM4 MULTI MODE FIBER, ROUTED FROM TR 1W133. SEE SHEET 47-TN600 FOR DETAILS ON THE DISTRIBUTION OF BACKBONE FIBER. PROVIDE FIRE STOPPING AS REQUIRED.
21. PROVIDE (1) 4" CONDUIT FROM CABLE TRAY TO TR 1W133 CONTAINING (3) 1" CORRUGATED INNERDUCTS FOR B SIDE BACKBONE FIBER. CONDUIT TO CONTAIN (5) 12ST OS1 SINGLE MODE FIBER AND (5) 24ST OM4 MULTI MODE FIBER, ROUTED FROM TR 1H113. SEE SHEET 47-TN600 FOR DETAILS ON THE DISTRIBUTION OF BACKBONE FIBER. PROVIDE FIRE STOPPING AS REQUIRED.
22. PROVIDE (1) 4" CONDUIT FROM CABLE TRAY TO TR 1W133 CONTAINING (3) 1" CORRUGATED INNERDUCTS FOR A SIDE BACKBONE FIBER. CONDUIT TO CONTAIN (5) 12ST OS1 SINGLE MODE FIBER AND (5) 24ST OM4 MULTI MODE FIBER, ROUTED FROM TR BC118. SEE SHEET 47-TN600 FOR DETAILS ON THE DISTRIBUTION OF BACKBONE FIBER. PROVIDE FIRE STOPPING AS REQUIRED.
23. PROVIDE (1) 4" CONDUIT BETWEEN TRS 1W133 AND 2E205 CONTAINING (3) 1" CORRUGATED INNERDUCTS FOR B SIDE BACKBONE FIBER. CONDUIT TO CONTAIN (4) 12ST OS1 SINGLE MODE FIBER AND (4) 24ST OM4 MULTI MODE FIBER, ROUTING TO 2E205. SEE SHEET 47-TN600 FOR DETAILS ON THE DISTRIBUTION OF BACKBONE FIBER. PROVIDE FIRE STOPPING AS REQUIRED.
24. PROVIDE (1) 4" CONDUIT BETWEEN TRS 1W133 AND 2E205 CONTAINING (3) 1" CORRUGATED INNERDUCTS FOR A SIDE BACKBONE FIBER. CONDUIT TO CONTAIN (4) 12ST OS1 SINGLE MODE FIBER AND (4) 24ST OM4 MULTI MODE FIBER, ROUTING TO TR 2E205. ROUTE CONDUIT IN CEILING SPACE OF 1ST FLOOR SO THAT A SIDE FIBER ENTERS TR 2E205 SUFFICIENTLY FAR FROM THE ENTRANCE POINT OF THE B SIDE FIBER. SEE SHEET 47-TN600 FOR DETAILS ON THE DISTRIBUTION OF BACKBONE FIBER AND SHEET 47-TN110 FOR ROUTING DETAILS. PROVIDE FIRE STOPPING AS REQUIRED.

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. NOT ALL DEVICES ARE SHOWN. CONTRACTOR TO VERIFY ALL DATA OUTLET LOCATIONS IN THE FIELD.
4. PROVIDE NEW CAT6A RATED TELECOMMUNICATION EQUIPMENT, PLYWOOD, CABLING AND INFRASTRUCTURE. EXISTING TELECOMMUNICATION EQUIPMENT, PLYWOOD, CABLING AND INFRASTRUCTURE MAY BE USED IF CAT6A RATED AND IN GOOD CONDITION.
5. ALL ROUTING FOR NEW BACKBONE CABLE SHALL BE ROUTED IN CORRUGATED INNERDUCT.
6. NEW CABLE TRAY TO BE MOUNTED ABOVE THE EXISTING CABLE TRAY. ENSURE 6 INCHES OF CLEARANCE BETWEEN NEW AND EXISTING CABLE TRAY.

PLAN NORTH N

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

Revisions:	Date:

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VA U.S. Department of Veterans Affairs

Drawing Title: TELECOMMUNICATIONS ENLARGED 1ST FLOOR PLANS	Phase: FINAL BID DOCUMENTS	Project Title: EHRM INFRASTRUCTURE UPGRADES	Project Number: 637-22-700
			Building Number: BLDG 47
Approved: FOR OFFICIAL USE ONLY		Location: 1100 TUNNEL ROAD ASHEVILLE, NC 28805	Drawing Number: 47-TN402
		Issue Date: 12.19.2025 / Checked / Drawn	SHEET OF 100

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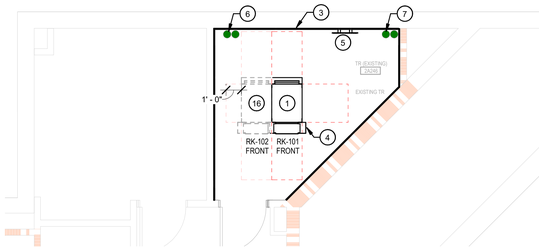
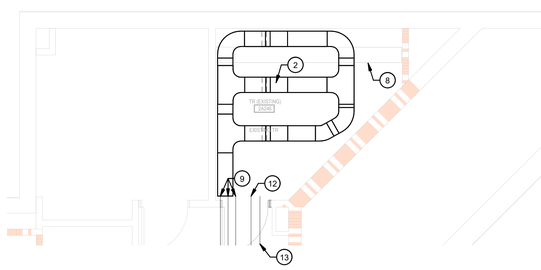
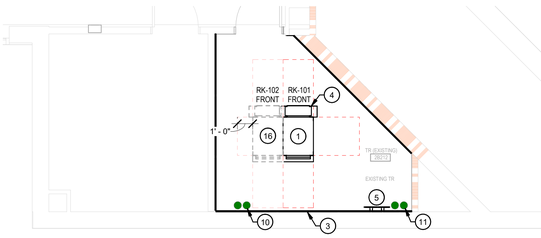


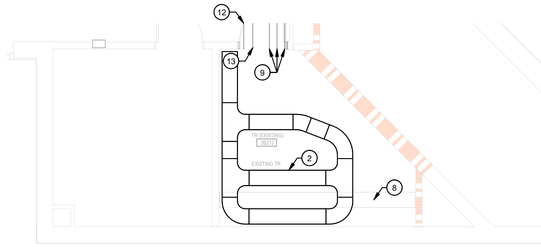
1 2A246 - TELECOMMUNICATIONS EQUIPMENT PLAN
1/4" = 1'-0"



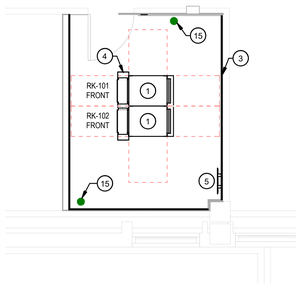
2 2A246 - RACEWAY PLAN
1/4" = 1'-0"



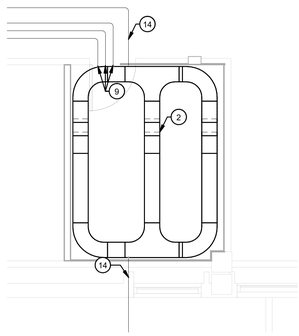
3 2B212 - TELECOMMUNICATIONS EQUIPMENT PLAN
1/4" = 1'-0"



4 2B212 - RACEWAY PLAN
1/4" = 1'-0"



5 2E205 - TELECOMMUNICATIONS EQUIPMENT PLAN
1/4" = 1'-0"



6 2E205 - RACEWAY PLAN
1/4" = 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. (TYP).
4. PROVIDE 6" VERTICAL CABLE MANAGEMENT AT THE ENDS OF THE RACKS AND BETWEEN EACH RACK.
5. LOCATION OF SECONDARY BONDING BUS BAR (SBB) ON PLYWOOD BACKBOARD. EXISTING SBB MAY BE USED IF IT HAS SUFFICIENT BONDING SPACES, OTHERWISE PROVIDE NEW SBB. REFER TO SHEET 00-T501 FOR GROUNDING AND BONDING DETAILS.
6. PROVIDE (3) 1" CORRUGATED INNERDUCT IN ONE (1) OF THE EXISTING CONDUITS BETWEEN TRS 1A136 AND 2A246 FOR B SIDE BACKBONE FIBER. CONDUIT TO CONTAIN (1) 12ST OS1 SINGLE MODE FIBER AND (1) 24ST OM4 MULTI MODE FIBER, ROUTING TO 1A136 FROM 2A246. SEE SHEET 47-TN600 FOR DETAILS ON THE DISTRIBUTION OF BACKBONE FIBER. PROVIDE FIRE STOPPING AS REQUIRED.
7. PROVIDE (3) 1" CORRUGATED INNERDUCT IN ONE (1) OF THE EXISTING CONDUITS BETWEEN TRS 1A136 AND 2A246 FOR A SIDE BACKBONE FIBER. EXISTING CONDUIT TO BE USED FOR A SIDE FIBER SHALL BE SUFFICIENTLY SEPARATED FROM THE ONE CONTAINING B SIDE FIBER. CONDUIT TO CONTAIN (4) 12ST OS1 SINGLE MODE FIBER AND (4) 24ST OM4 MULTI MODE FIBER ROUTING TO TR 2A246 FROM 1A136. SEE SHEET 47-TN600 FOR DETAILS ON THE DISTRIBUTION OF BACKBONE FIBER. PROVIDE FIRE STOPPING AS REQUIRED.
8. EXISTING CABLE TRAY TO REMAIN.
9. PROVIDE (3) 4" CONDUITS TO CABLE TRAY FOR HORIZONTAL DISTRIBUTION TO WORK AREA OUTLETS FOR EACH TELECOM ROOM. PROVIDED FIRE STOPPING AS REQUIRED.
10. PROVIDE (3) 1" CORRUGATED INNERDUCT IN ONE (1) OF THE EXISTING CONDUITS BETWEEN TRS 1B134 AND 2B212 FOR B SIDE BACKBONE FIBER. CONDUIT TO CONTAIN (3) 12ST OS1 SINGLE MODE FIBER AND (3) 24ST OM4 MULTI MODE FIBER ROUTED FROM 1B134. SEE SHEET 47-TN600 FOR DETAILS ON THE DISTRIBUTION OF BACKBONE FIBER. PROVIDE FIRE STOPPING AS REQUIRED.
11. PROVIDE (3) 1" CORRUGATED INNERDUCT IN ONE (1) OF THE EXISTING CONDUITS BETWEEN TRS 1B134 AND 2B212 FOR A SIDE BACKBONE FIBER. EXISTING CONDUIT TO BE USED FOR A SIDE FIBER SHALL BE SUFFICIENTLY SEPARATED FROM THE ONE CONTAINING B SIDE FIBER. CONDUIT TO CONTAIN (2) 12ST OS1 SINGLE MODE FIBER AND (2) 24ST OM4 MULTI MODE FIBER, ROUTING TO 1B134. SEE SHEET 47-TN600 FOR DETAILS ON THE DISTRIBUTION OF BACKBONE FIBER. PROVIDE FIRE STOPPING AS REQUIRED.
12. PROVIDE (1) 4" CONDUIT FROM CABLE TRAY TO TR CONTAINING (3) 1" CORRUGATED INNERDUCT FOR B SIDE FIBER. CONDUIT TO CONTAIN (2) 12ST OS1 AND (2) 24ST OM4 ROUTING TO 2A246 FROM 2B212. SEE SHEET 47-TN600 FOR DETAILS ON THE DISTRIBUTION OF FIBER BACKBONE. PROVIDE FIRE STOPPING AS REQUIRED.
13. PROVIDE (1) 4" CONDUIT FROM CABLE TRAY TO TR CONTAINING (3) 1" CORRUGATED INNERDUCT FOR A SIDE FIBER. CONDUIT TO CONTAIN (3) 12ST OS1 AND (3) 24ST OM4 ROUTING TO 2B212 FROM 2A246. SEE SHEET 47-TN600 FOR DETAILS ON THE DISTRIBUTION OF FIBER BACKBONE. PROVIDE FIRE STOPPING AS REQUIRED.
14. PROVIDE (2) DIVERSELY ROUTED 4" CONDUIT EACH CONTAINING (3) 1" CORRUGATED INNERDUCTS FOR BACKBONE FIBER FROM TR 2E205 TO CABLE TRAY. EACH CONDUIT TO CONTAIN (3) 12ST OS1 SINGLE MODE FIBER AND (3) 24ST OM4 MULTIMODE FIBER, ONE SET FED FROM THE A SIDE MDA AND THE OTHER FED FROM THE B SIDE MDA IN THE NEW DATA CENTER. FIBER TO BE ROUTED TO TR A301, SEE SHEET 47-TN120 FOR MORE DETAILS ON THIS ROUTING. PROVIDE FIRE STOPPING AS REQUIRED.
15. PROVIDE (2) DIVERSELY ROUTED 4" CONDUITS EACH CONTAINING (3) 1" CORRUGATED INNERDUCTS FROM TR 2E205 TO TR 1W133 . EACH CONDUIT TO CONTAIN (4) 12ST OS1 SINGLE MODE FIBER AND (4) 24ST OM4 MULTIMODE FIBER, ONE SET FED FROM THE A SIDE MDA AND THE OTHER FED FROM THE B SIDE MDA IN THE NEW DATA CENTER. SEE SHEET 47-TN110 FOR MORE DETAILS ON THIS ROUTING.PROVIDE FIRE STOPPING AS REQUIRED.
16. SPACE RESERVED FOR FUTURE 45U 4-POST CHANNEL RACK. NOT IN SCOPE.

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. NOT ALL DEVICES ARE SHOWN. CONTRACTOR TO VERIFY ALL DATA OUTLET LOCATIONS IN THE FIELD.
4. PROVIDE NEW CAT6A RATED TELECOMMUNICATION EQUIPMENT, PLYWOOD, CABLING AND INFRASTRUCTURE. EXISTING TELECOMMUNICATION EQUIPMENT, PLYWOOD, CABLING AND INFRASTRUCTURE MAY BE USED IF CAT6A RATED AND IN GOOD CONDITION.
5. ALL ROUTING FOR NEW BACKBONE CABLE SHALL BE ROUTED IN CORRUGATED INNERDUCT.
6. NEW CABLE TRAY TO BE MOUNTED ABOVE THE EXISTING CABLE TRAY. ENSURE 6 INCHES OF CLEARANCE BETWEEN NEW AND EXISTING CABLE TRAY.

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

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

Revisions:	Date:

ARCHITECT/ENGINEER OF RECORD

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Drawing Title	Phase	Project Title	Project Number
TELECOMMUNICATIONS ENLARGED 2ND FLOOR PLANS	FINAL BID DOCUMENTS	EHRM INFRASTRUCTURE UPGRADES	637-22-700
			Building Number: BLDG 47
Approved: FOR OFFICIAL USE ONLY		Location: 1100 TUNNEL ROAD ASHEVILLE, NC 28805	Drawing Number: 47-TN403
		Issue Date: 12.19.2025 / Checked / Drawn	SHEET OF 100

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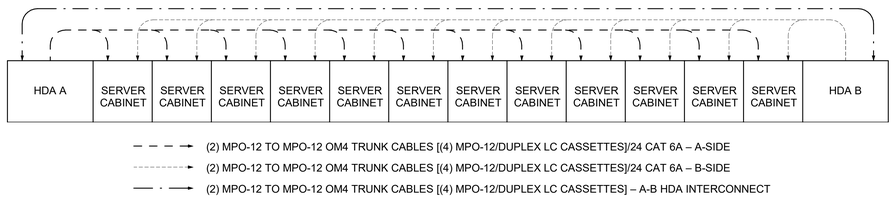
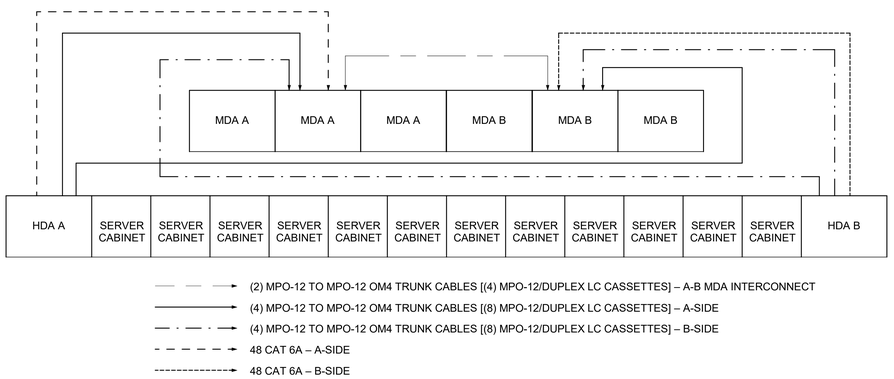
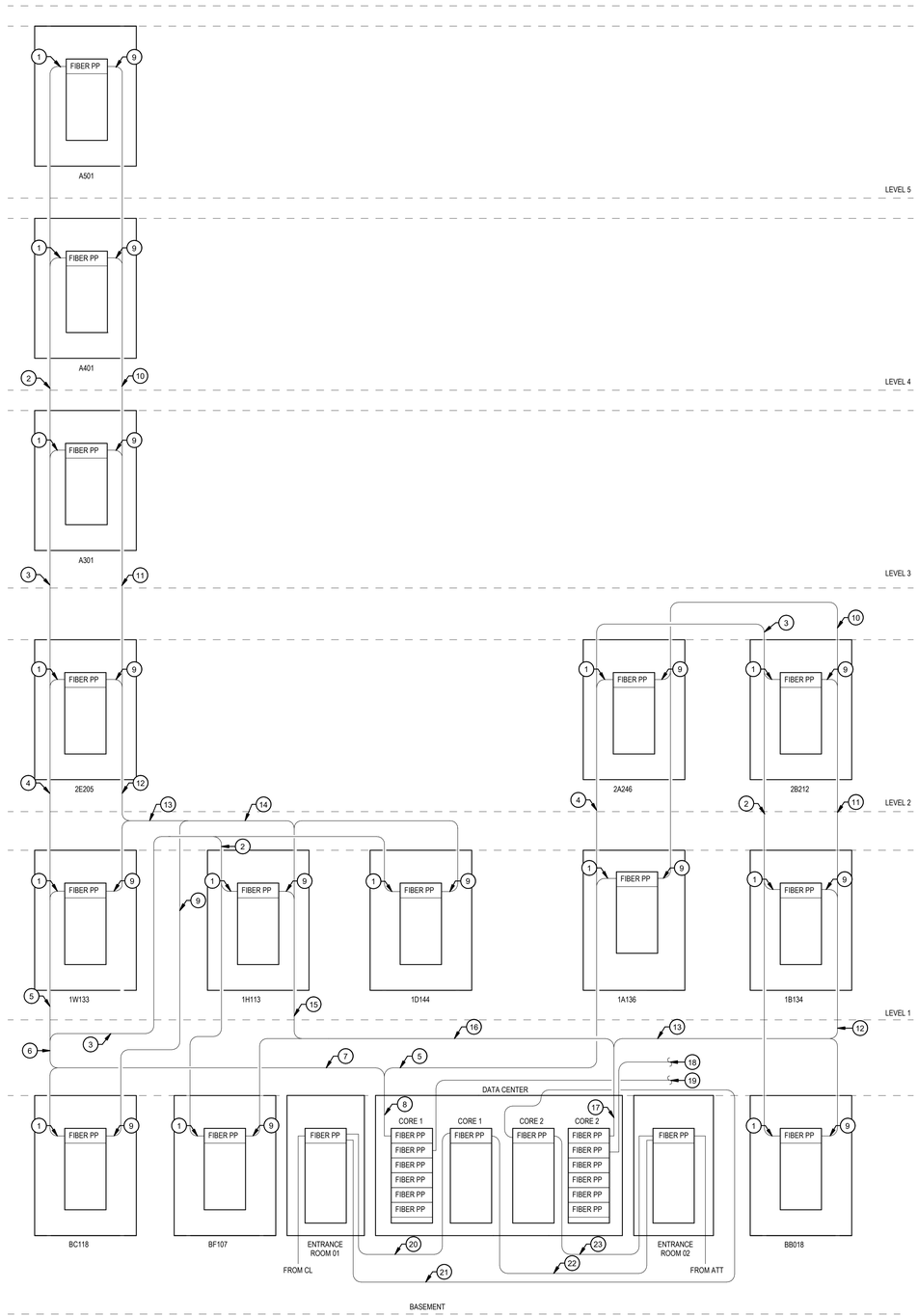


3 TYPICAL DATA CENTER DIVERSE ROUTING HDA TO SERVER CABINETS DIAGRAM
N.T.S.



2 TYPICAL DATA CENTER DIVERSE ROUTING HDA TO MDA DIAGRAM
N.T.S.



1 TELECOMMUNICATIONS RISER DIAGRAM
N.T.S.

SHEET NOTES:

1. FIBER FROM CORE 1 LANDING ON FIBER OPTIC PATCH PANEL IN TR:
(1) 24ST OM4 MULTIMODE FIBER
(1) 12ST OS1 SINGLE MODE FIBER
2. FIBER FROM CORE 1:
(2) 24ST OM4 MULTIMODE FIBER
(2) 12ST OS1 SINGLE MODE FIBER
3. FIBER FROM CORE 1:
(3) 24ST OM4 MULTIMODE FIBER
(3) 12ST OS1 SINGLE MODE FIBER
4. FIBER FROM CORE 1:
(4) 24ST OM4 MULTIMODE FIBER
(4) 12ST OS1 SINGLE MODE FIBER
5. FIBER FROM CORE 1:
(5) 24ST OM4 MULTIMODE FIBER
(5) 12ST OS1 SINGLE MODE FIBER
6. FIBER FROM CORE 1:
(8) 24ST OM4 MULTIMODE FIBER
(8) 12ST OS1 SINGLE MODE FIBER
7. FIBER FROM CORE 1:
(9) 24ST OM4 MULTIMODE FIBER
(9) 12ST OS1 SINGLE MODE FIBER
8. FIBER FROM CORE 1 LEAVING DATA CENTER:
(14) 24ST OM4 MULTIMODE FIBER
(14) 12ST OS1 SINGLE MODE FIBER
9. FIBER FROM CORE 2 LANDING ON FIBER OPTIC PATCH PANEL IN TR:
(1) 24ST OM4 MULTIMODE FIBER
(1) 12ST OS1 SINGLE MODE FIBER
10. FIBER FROM CORE 2:
(2) 24ST OM4 MULTIMODE FIBER
(2) 12ST OS1 SINGLE MODE FIBER
11. FIBER FROM CORE 2:
(3) 24ST OM4 MULTIMODE FIBER
(3) 12ST OS1 SINGLE MODE FIBER
12. FIBER FROM CORE 2:
(4) 24ST OM4 MULTIMODE FIBER
(4) 12ST OS1 SINGLE MODE FIBER
13. FIBER FROM CORE 2:
(5) 24ST OM4 MULTIMODE FIBER
(5) 12ST OS1 SINGLE MODE FIBER
14. FIBER FROM CORE 2:
(6) 24ST OM4 MULTIMODE FIBER
(6) 12ST OS1 SINGLE MODE FIBER
15. FIBER FROM CORE 2:
(8) 24ST OM4 MULTIMODE FIBER
(8) 12ST OS1 SINGLE MODE FIBER
16. FIBER FROM CORE 2:
(9) 24ST OM4 MULTIMODE FIBER
(9) 12ST OS1 SINGLE MODE FIBER
17. FIBER FROM CORE 2 LEAVING DATA CENTER:
(14) 24ST OM4 MULTIMODE FIBER
(14) 12ST OS1 SINGLE MODE FIBER
18. INTERBUILDING CONNECTION FROM CORE 1 TO EACH TR IN EACH BUILDING OUTSIDE BUILDING 47. REFER TO INDIVIDUAL BUILDINGS FOR EXACT QUANTITY:
(29) 24ST OS2 SINGLE MODE FIBER
19. INTERBUILDING CONNECTION FROM CORE 2 TO EACH TR IN EACH BUILDING OUTSIDE BUILDING 47. REFER TO INDIVIDUAL BUILDINGS FOR EXACT QUANTITY:
(29) 24ST OS2 SINGLE MODE FIBER
20. FIBER FROM TELECOM ENTRANCE ROOM 1 ENTERING DATA CENTER AND DEMARCING AT CORE 1:
(1) 24ST OM4 MULTIMODE FIBER
(1) 12ST OS1 SINGLE MODE FIBER
21. FIBER FROM TELECOM ENTRANCE ROOM 1 ENTERING DATA CENTER AND DEMARCING AT CORE 2:
(1) 24ST OM4 MULTIMODE FIBER
(1) 12ST OS1 SINGLE MODE FIBER
22. FIBER FROM TELECOM ENTRANCE ROOM 2 ENTERING DATA CENTER AND DEMARCING AT CORE 1:
(1) 24ST OM4 MULTIMODE FIBER
(1) 12ST OS1 SINGLE MODE FIBER
23. FIBER FROM TELECOM ENTRANCE ROOM 2 ENTERING DATA CENTER AND DEMARCING AT CORE 2:
(1) 24ST OM4 MULTIMODE FIBER
(1) 12ST OS1 SINGLE MODE FIBER

Revisions:	Date:

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Facilities Management Services

VA U.S. Department of Veterans Affairs

Drawing Title: TELECOMMUNICATIONS RISER DIAGRAM

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 47

Drawing Number: 47-TN600

SHEET OF 100

VA FORM 08 - 6231

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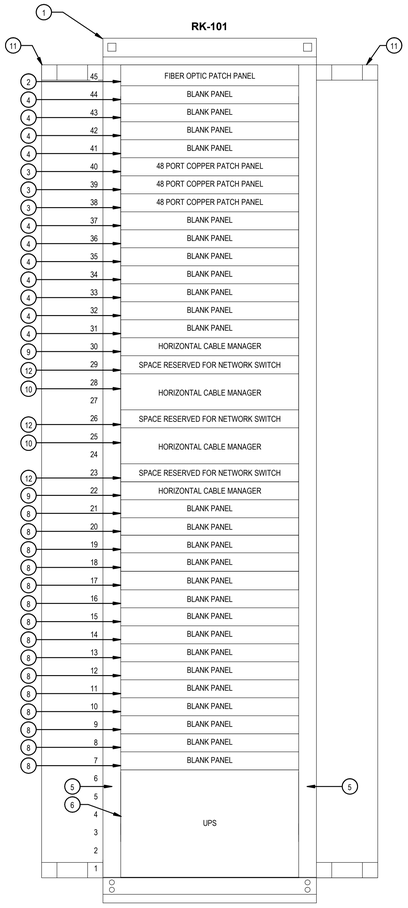
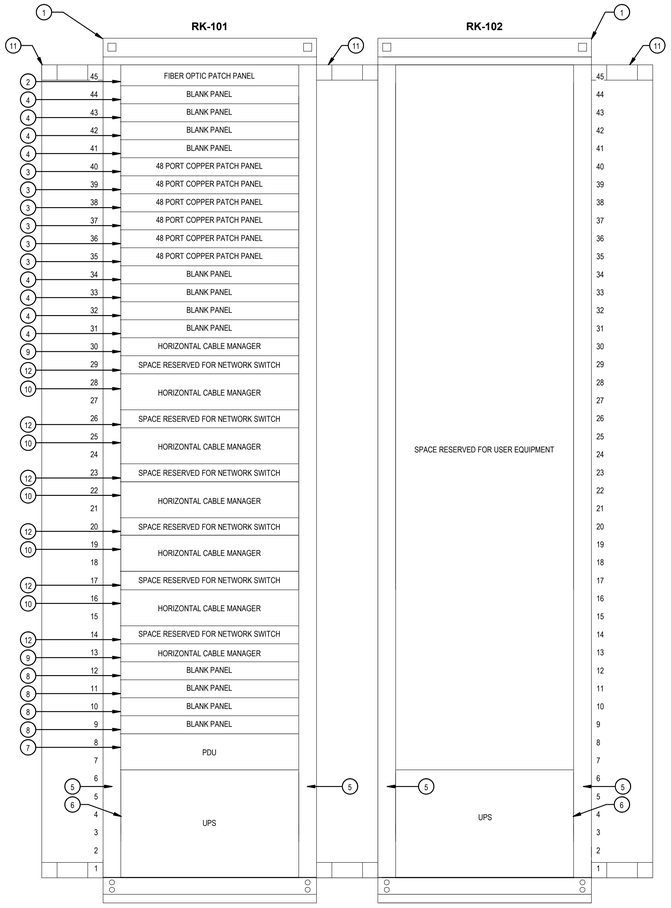


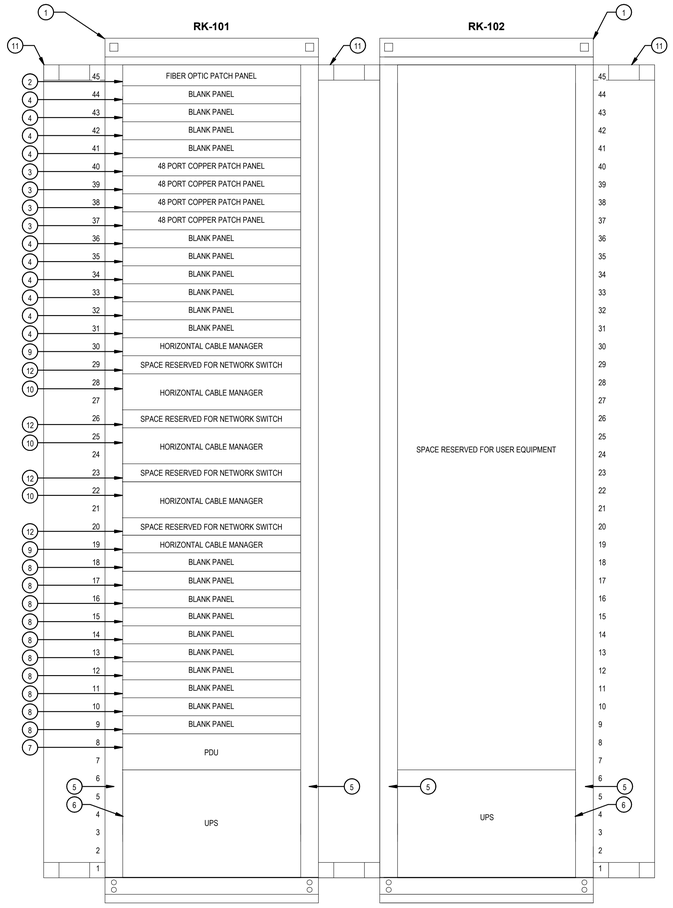
HORIZONTAL CABLES	120
HORIZONTAL CABLES + 10% OVERAGE	132
TOTAL SPARE PORTS	(48 x 3) - 132 = 12

1 ROOM BB018 RACK ELEVATION
N.T.S.



HORIZONTAL CABLES	252
HORIZONTAL CABLES + 10% OVERAGE	278
TOTAL SPARE PORTS	(48 x 6) - 278 = 10

2 ROOM BC118 RACK ELEVATION
N.T.S.



HORIZONTAL CABLES	166
HORIZONTAL CABLES + 10% OVERAGE	183
TOTAL SPARE PORTS	(48 x 4) - 183 = 9

3 ROOM BF107 RACK ELEVATION
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-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.
3. A/E TEAM HAS YET TO RECEIVE NEW DATA DROP LOCATIONS. ALL DATA COUNTS LISTED IN ELEVATIONS AND ARE NOT ACCURATE AND WILL BE UPDATED ONCE THE INFORMATION IS RECEIVED. TYPICAL FOR ALL BUILDING 47 RACK ELEVATIONS.

Revisions:	Date:

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VA U.S. Department of Veterans Affairs

Drawing Title: TELECOMMUNICATIONS RACK ELEVATIONS

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 47

Drawing Number: 47-TN601

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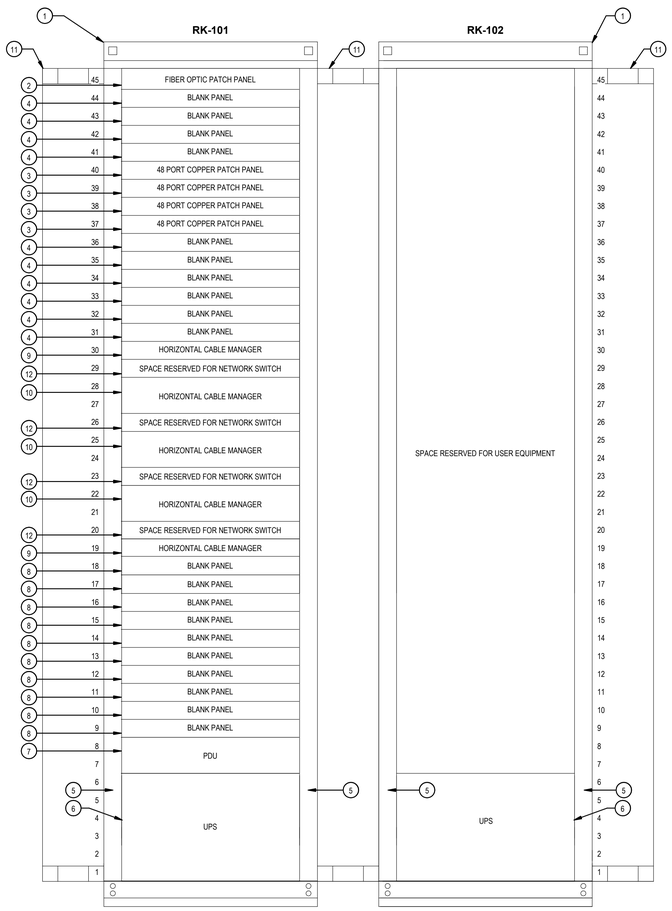
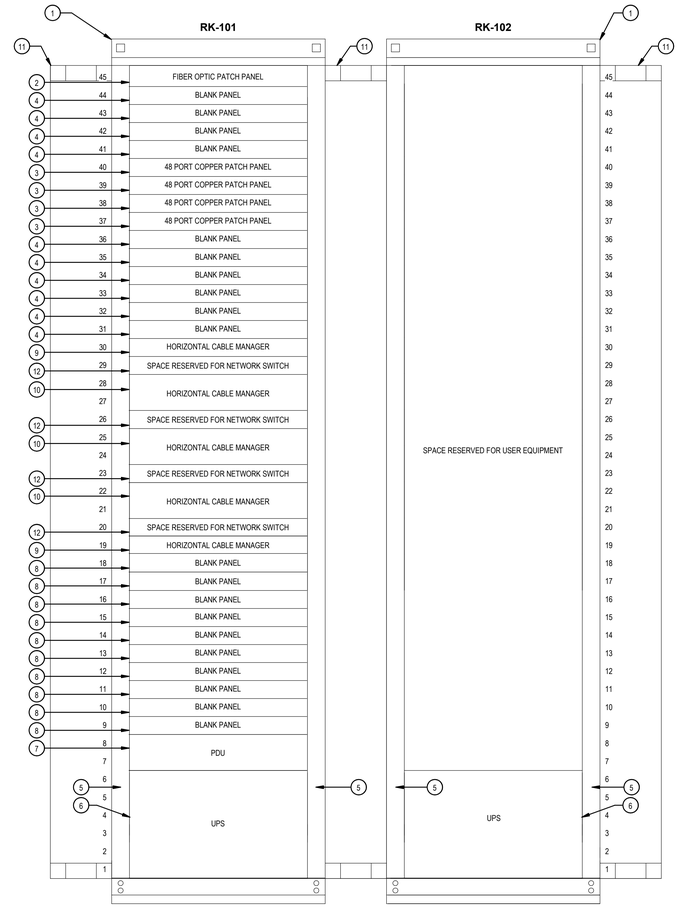


HORIZONTAL CABLES	172
HORIZONTAL CABLES + 10% OVERAGE	190
TOTAL SPARE PORTS	(48 x 4) - 190 = 2

1 ROOM 1A136 RACK ELEVATION
N.T.S.



HORIZONTAL CABLES	138
HORIZONTAL CABLES + 10% OVERAGE	152
TOTAL SPARE PORTS	(48 x 4) - 152 = 40

2 ROOM 1B134 RACK ELEVATION
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.
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7. RACK MOUNTED ZONE PDU, 2U.
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10. FLAT HORIZONTAL CABLE MANAGEMENT, 2U.
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VA U.S. Department of Veterans Affairs

Drawing Title: TELECOMMUNICATIONS RACK ELEVATIONS

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 47

Drawing Number: 47-TN602

SHEET OF 100

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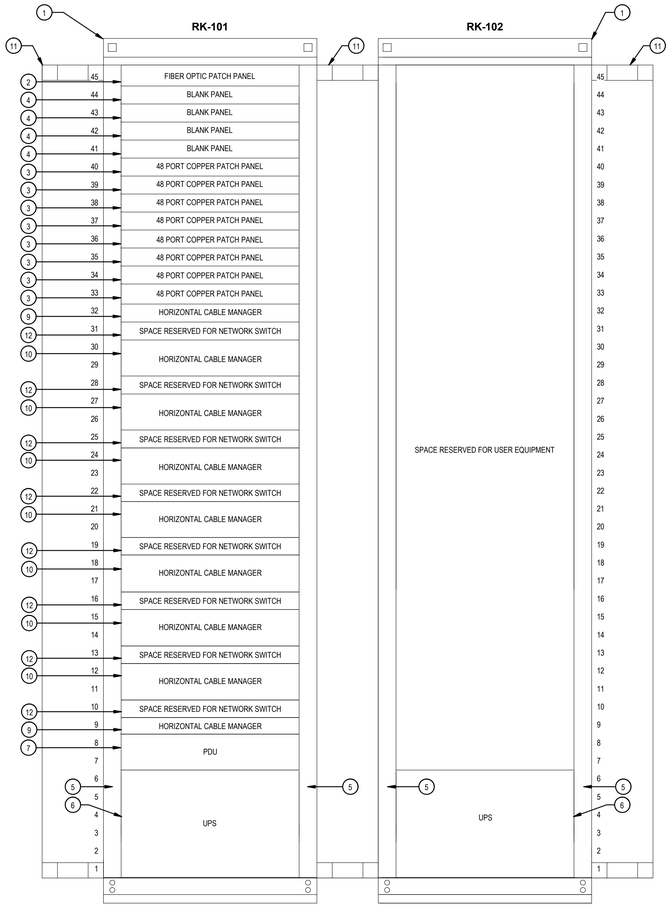
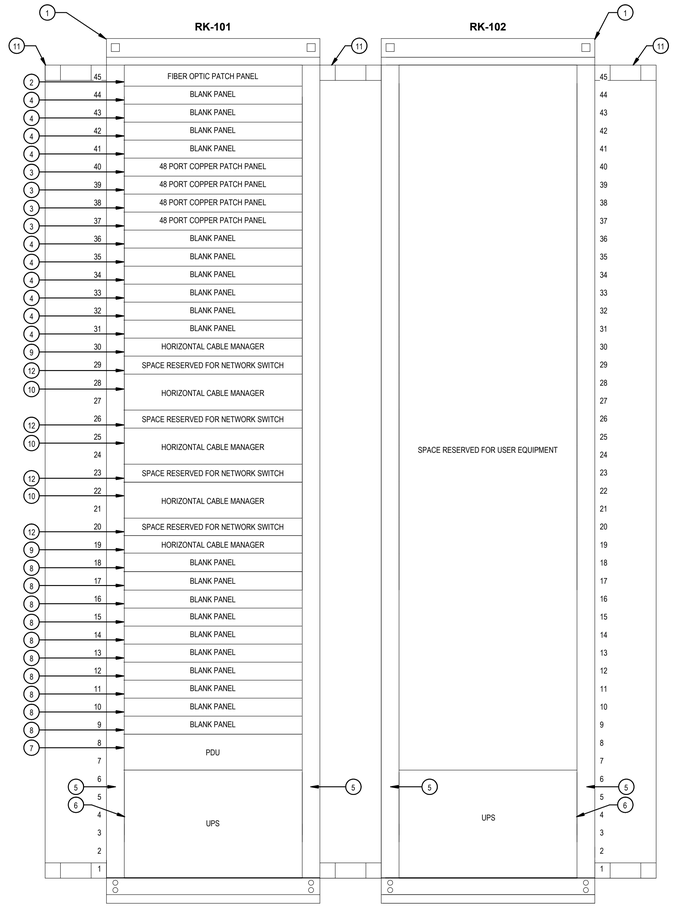


HORIZONTAL CABLES	324
HORIZONTAL CABLES + 10% OVERAGE	357
TOTAL SPARE PORTS	(48 x 8) - 357 = 27

1 ROOM 1D144 RACK ELEVATION
N.T.S.



HORIZONTAL CABLES	198
HORIZONTAL CABLES + 10% OVERAGE	218
TOTAL SPARE PORTS	(48 x 5) - 218 = 22

2 ROOM 1H113 RACK ELEVATION
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.
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VA U.S. Department of Veterans Affairs

Drawing Title: TELECOMMUNICATIONS RACK ELEVATIONS

Phase: FINAL BID DOCUMENTS

Project Title: EHRM INFRASTRUCTURE UPGRADES

Project Number: 637-22-700

Building Number: BLDG 47

Approved:

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Location: 1100 TUNNEL ROAD, ASHEVILLE, NC 28805

Issue Date: 12.19.2025

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Drawn:

Drawing Number: 47-TN603

SHEET OF 100

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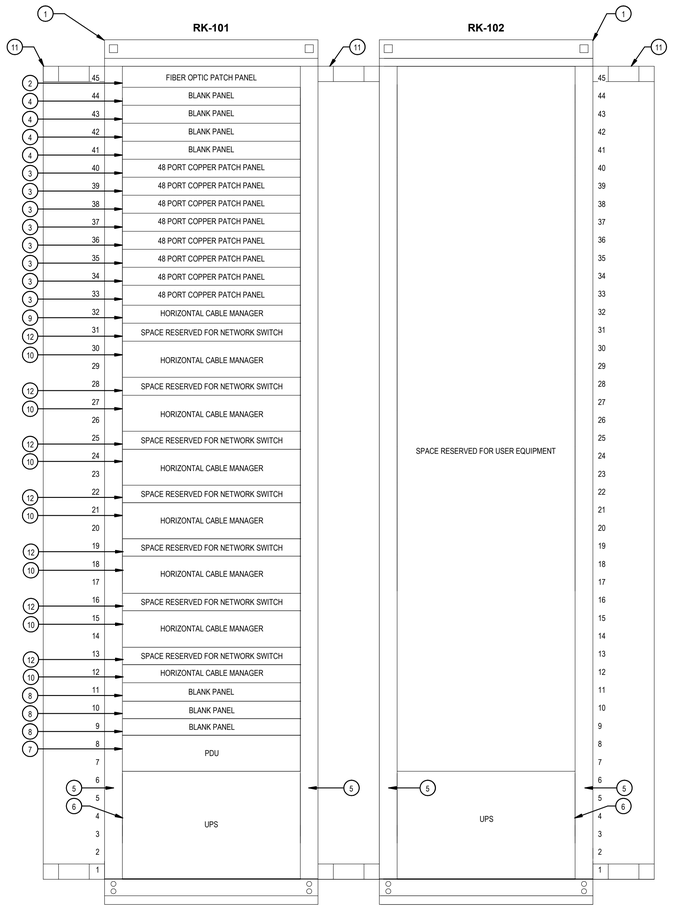
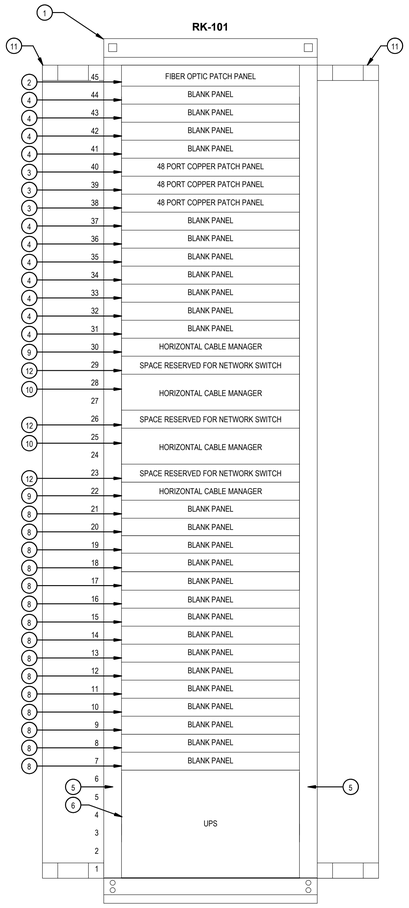


HORIZONTAL CABLES	300
HORIZONTAL CABLES + 10% OVERAGE	330
TOTAL SPARE PORTS	(48 x 7) - 330 = 6

1 ROOM 1W133 RACK ELEVATION
N.T.S.



HORIZONTAL CABLES	106
HORIZONTAL CABLES + 10% OVERAGE	116
TOTAL SPARE PORTS	(48 x 3) - 116 = 28

2 ROOM 2A246 RACK ELEVATION
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.
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Revisions:	Date:

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VA U.S. Department of Veterans Affairs

Drawing Title: TELECOMMUNICATIONS RACK ELEVATIONS

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 47

Drawing Number: 47-TN604

SHEET OF 100

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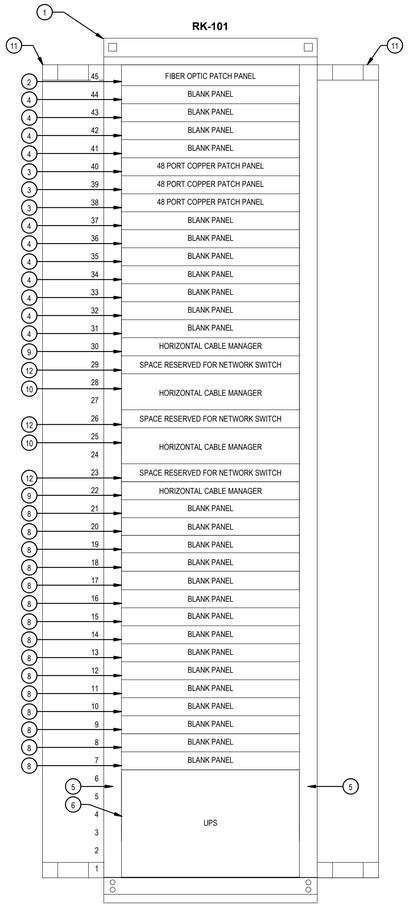
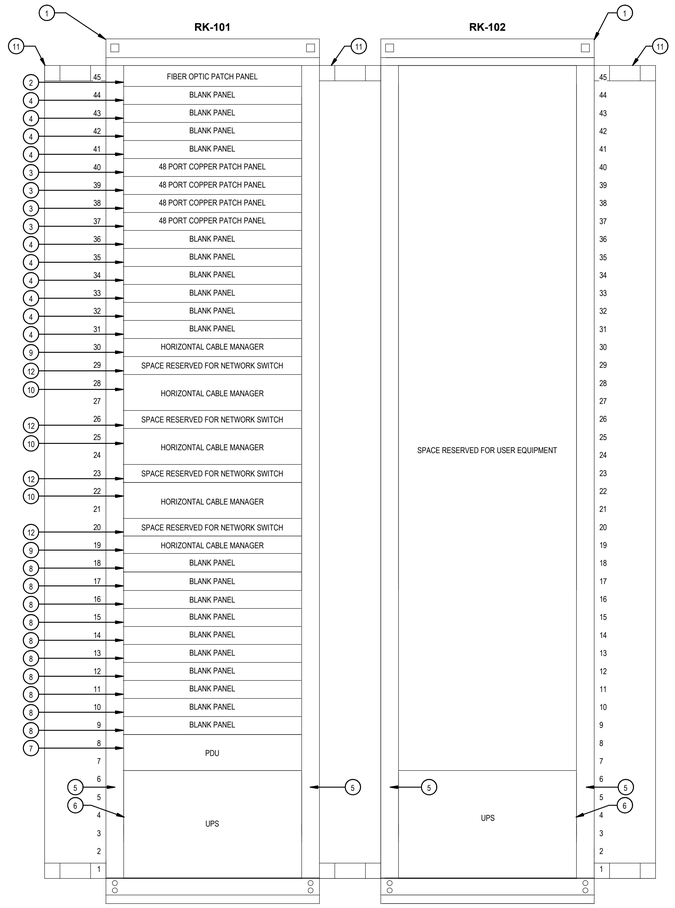


HORIZONTAL CABLES	88
HORIZONTAL CABLES + 10% OVERAGE	97
TOTAL SPARE PORTS	(48 x 3) - 97 = 47

1 ROOM 2B212 RACK ELEVATION
N.T.S.



HORIZONTAL CABLES	154
HORIZONTAL CABLES + 10% OVERAGE	170
TOTAL SPARE PORTS	(48 x 4) - 170 = 22

2 ROOM 2E205 RACK ELEVATION
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.
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Facilities Management Services

VA U.S. Department of Veterans Affairs

Drawing Title: TELECOMMUNICATIONS RACK ELEVATIONS

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 47

Drawing Number: 47-TN605

SHEET OF 100

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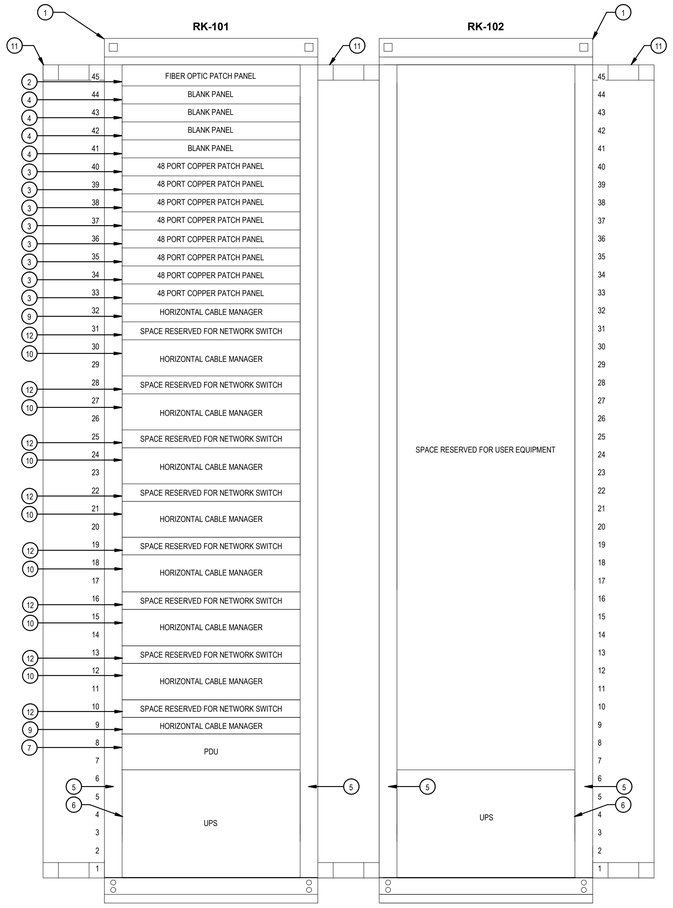
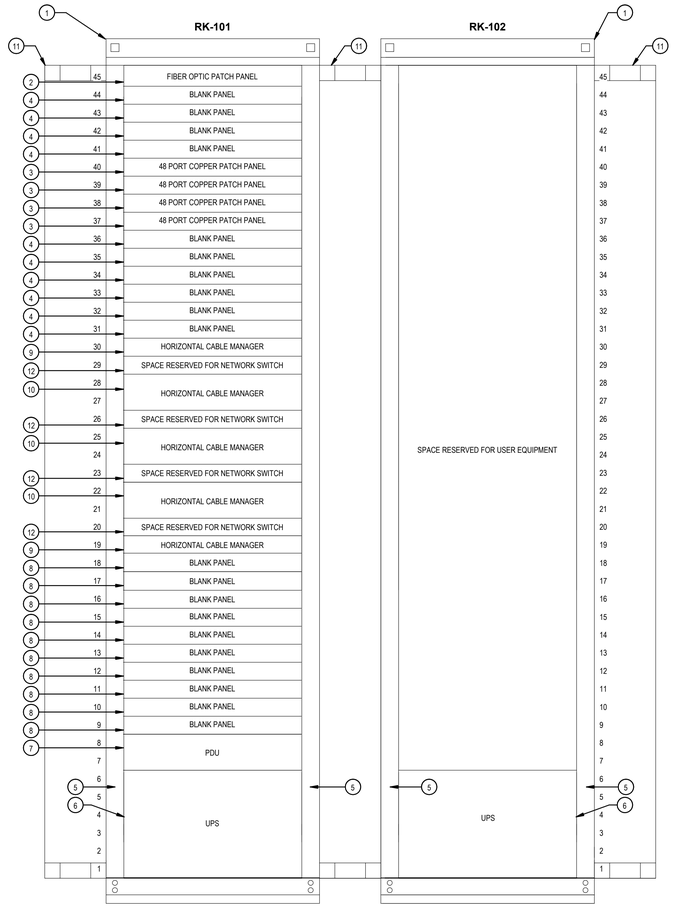


HORIZONTAL CABLES	328
HORIZONTAL CABLES + 10% OVERAGE	361
TOTAL SPARE PORTS	(48 x 8) - 361 = 23

1 ROOM A301 RACK ELEVATION
N.T.S.



HORIZONTAL CABLES	150
HORIZONTAL CABLES + 10% OVERAGE	165
TOTAL SPARE PORTS	(48 x 4) - 165 = 27

2 ROOM A401 RACK ELEVATION
N.T.S.

SHEET NOTES:

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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.
3. A/E TEAM HAS YET TO RECEIVE NEW DATA DROP LOCATIONS. ALL DATA COUNTS LISTED IN ELEVATIONS AND ARE NOT ACCURATE AND WILL BE UPDATED ONCE THE INFORMATION IS RECEIVED. TYPICAL FOR ALL BUILDING 47 RACK ELEVATIONS.

Revisions:	Date:

ARCHITECT/ENGINEER OF RECORD

AWEN SOLUTIONS GROUP
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Facilities Management Services

VA U.S. Department of Veterans Affairs

Drawing Title	TELECOMMUNICATIONS RACK ELEVATIONS
Phase	FINAL BID DOCUMENTS
Project Title	EHRM INFRASTRUCTURE UPGRADES
Project Number	637-22-700
Building Number	BLDG 47
Approved:	FOR OFFICIAL USE ONLY
Location	1100 TUNNEL ROAD ASHEVILLE, NC 28805
Issue Date	12.19.2025
Checked	
Drawn	
Drawing Number	47-TN606
SHEET	OF 100

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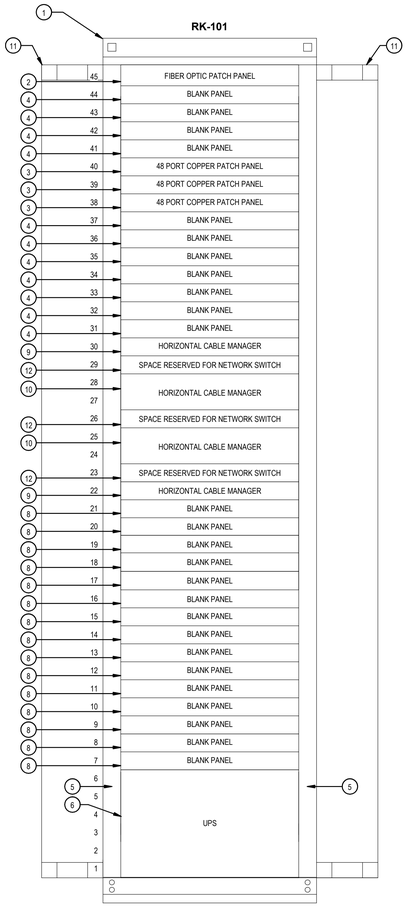

HORIZONTAL CABLES	116
HORIZONTAL CABLES + 10% OVERAGE	128
TOTAL SPARE PORTS	(48 x 3) - 128 = 16

1 ROOM A501 RACK ELEVATION
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).

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Facilities Management Services

VA U.S. Department of Veterans Affairs

Drawing Title: TELECOMMUNICATIONS RACK ELEVATIONS

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 47

Drawing Number: 47-TN607

SHEET OF 100

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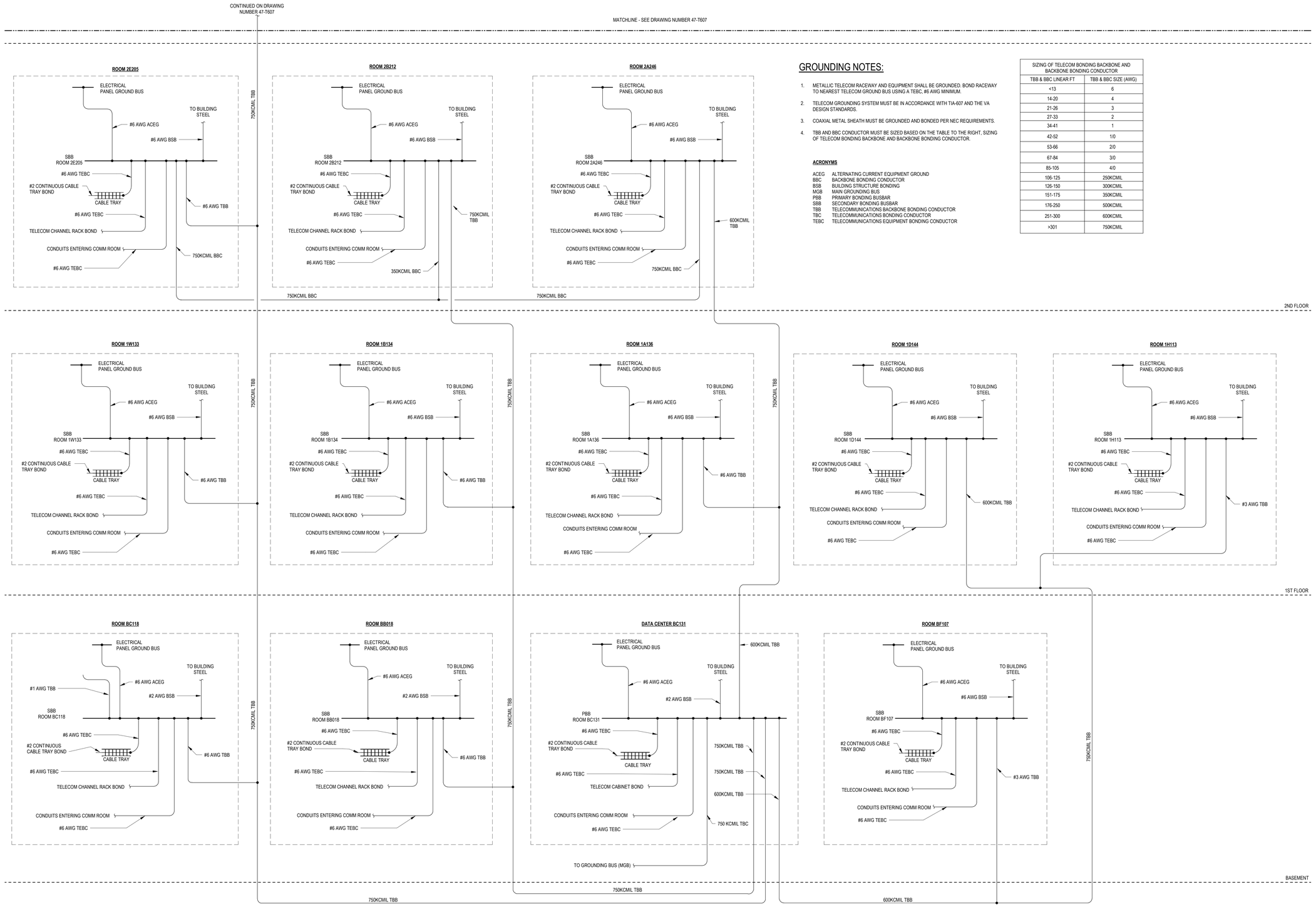

GROUNDING NOTES:

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 AND BBC CONDUCTOR MUST BE SIZED BASED ON THE TABLE TO THE RIGHT, SIZING OF TELECOM BONDING BACKBONE AND BACKBONE BONDING CONDUCTOR.

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 AND BACKBONE BONDING CONDUCTOR	
TBB & BBC LINEAR FT	TBB & BBC 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

1 TELECOMMUNICATIONS GROUNDING RISER DIAGRAM

N.T.S.

Revisions:	Date:

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Facilities Management Services

VA U.S. Department of Veterans Affairs

Drawing Title: TELECOMMUNICATIONS RISER DIAGRAM

Phase: FINAL BID DOCUMENTS

Project Title: EHRM INFRASTRUCTURE UPGRADES

Project Number: 637-22-700

Building Number: BLDG 47

Approved:

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Location: 1100 TUNNEL ROAD ASHEVILLE, NC 28805

Issue Date: 12.19.2025

Checked:

Drawn:

Drawing Number: 47-TN608

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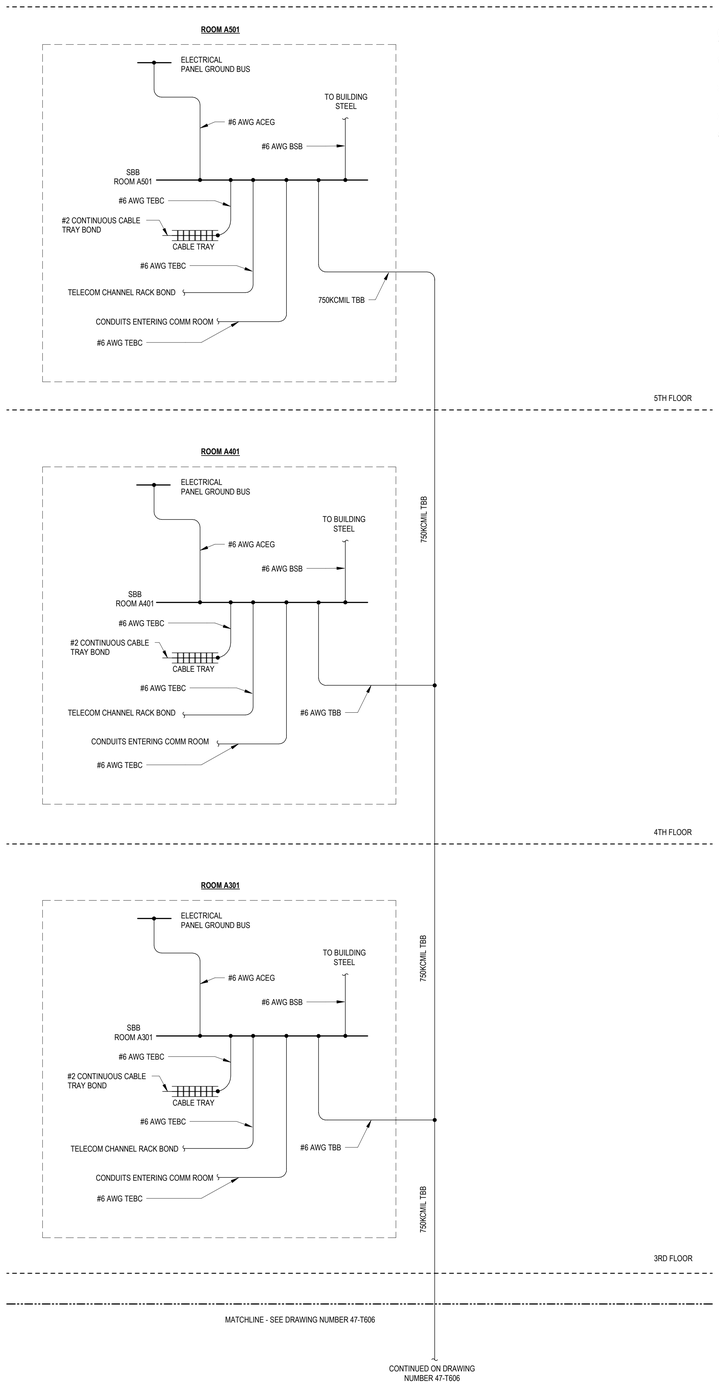

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4. TBB AND BBC CONDUCTOR MUST BE SIZED BASED ON THE TABLE BELOW, SIZING OF TELECOM BONDING BACKBONE AND BACKBONE BONDING CONDUCTOR.

ACRONYMS

ACEG	ALTERNATING CURRENT EQUIPMENT GROUND
BBC	BACKBONE BONDING CONDUCTOR
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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 AND BACKBONE BONDING CONDUCTOR

TBB & BBC LINEAR FT	TBB & BBC SIZE (AWG)
<13	6
14-20	4
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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

1 TELECOMMUNICATIONS GROUNDING RISER DIAGRAM
N.T.S.

Revisions:	Date:

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Facilities Management Services

VA U.S. Department of Veterans Affairs

Drawing Title: TELECOMMUNICATIONS RISER DIAGRAM

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 47

Drawing Number: 47-TN609

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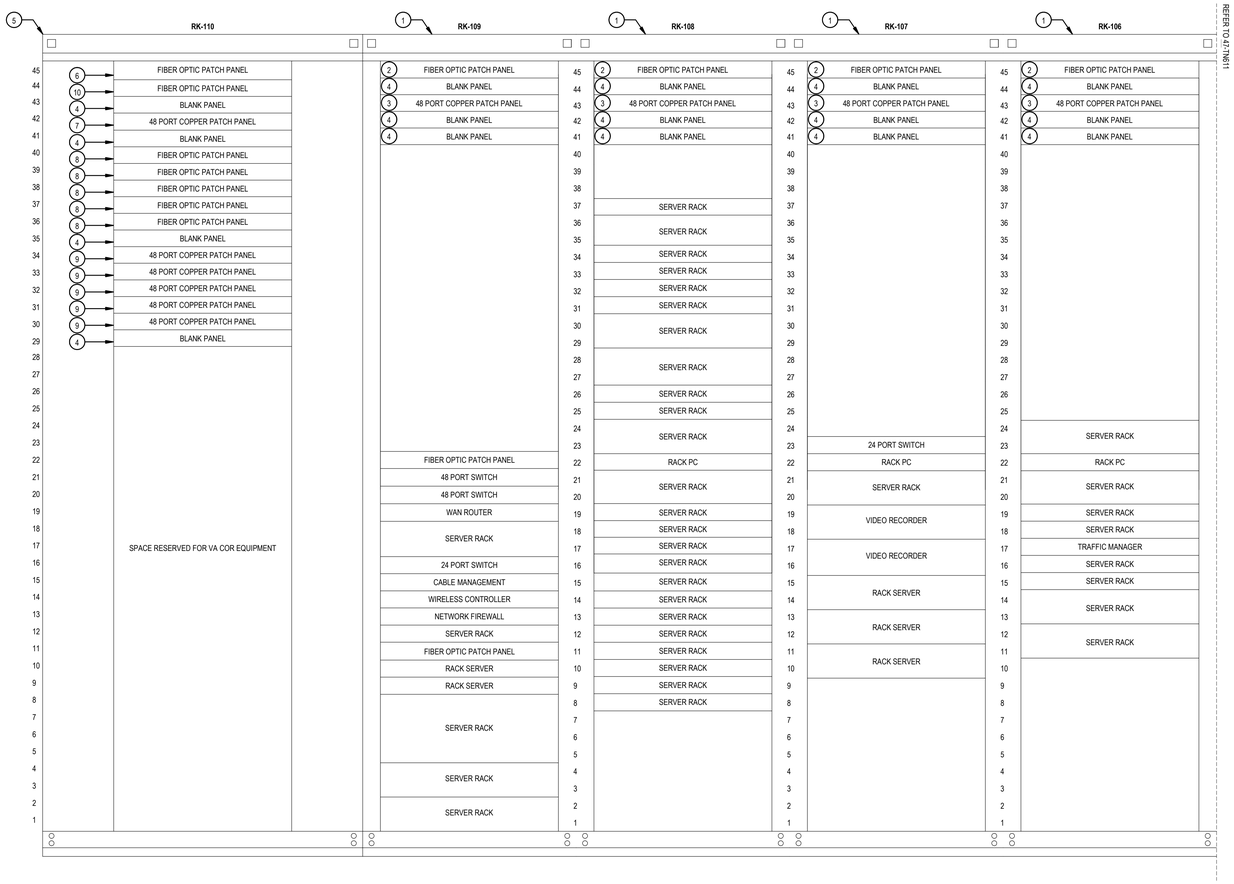

1 DC RK-110 THRU RK-106
N.T.S.

SHEET NOTES:

1. 45U FREE STANDING 24" 4-POST SERVER CABINET. SERVER CABINET TO BE FED FROM THE A AND B HDA NETWORK CABINETS, RK-101 AND RK-110. REFER TO DIAGRAM 3/47-T600, TYPICAL DATA CENTER DIVERSE ROUTING HDA TO SERVER CABINETS DIAGRAM, FOR ADDITIONAL INFORMATION.
2. 1U, 144 STRAND CAPACITY FIBER OPTIC ANGLED PATCH PANEL WITH 4-12 OM4 DUPLEX LC FIBER CASSETTES. PATCH PANEL TO BE FED 48 STRANDS OF FIBER OPTIC CABLE: PROVIDE 2-12 ST MPO TO MPO OM4 TRUNK CABLES FROM THE A SIDE HDA NETWORK CABINET, RK-110, AND 2-12ST MPO TO MPO OM4 TRUNK CABLES FROM THE B SIDE HDA NETWORK CABINET, RK-101. REFER TO DIAGRAM 3/47-T600, TYPICAL DATA CENTER DIVERSE ROUTING HDA TO SERVER CABINETS DIAGRAM, FOR ADDITIONAL WIRING INFORMATION. REFER TO DETAIL 1/00-T505, SERVER EQUIPMENT DISTRIBUTOR DETAIL, FOR ADDITIONAL INFORMATION PATCH PANEL LAYOUT.
3. 1U, 48-PORT UTP CAT6A ANGLED PATCH PANEL. PATCH PANEL TO BE FED 48 CAT6A CABLES: PROVIDE 24 CAT6A CABLES FROM THE A SIDE HDA NETWORK CABINET, RK-110, AND 24 CAT6A CABLES FROM THE B SIDE HDA NETWORK CABINET, RK-101. REFER TO DIAGRAM 3/47-T600, TYPICAL DATA CENTER DIVERSE ROUTING HDA TO SERVER CABINETS DIAGRAM, FOR ADDITIONAL WIRING INFORMATION. REFER TO DETAIL 1/00-T505, SERVER EQUIPMENT DISTRIBUTOR DETAIL, FOR ADDITIONAL PATCH PANEL LAYOUT INFORMATION.
4. ANGLED BLANKING PANEL, 1U.
5. 45U FREE STANDING 40" 4-POST A SIDE HDA NETWORK CABINET. NETWORK CABINET TO FEED THE A SIDE HDA FIBER TO EACH SERVER CABINET AND TO THE A AND B SIDE MDAS. SEE DIAGRAMS 2/47-TN600, TYPICAL DATA CENTER DIVERSE ROUTING HDA TO MDA DIAGRAM, AND 3/47-TN600, TYPICAL DATA CENTER DIVERSE ROUTING HDA TO SERVER CABINETS DIAGRAM, FOR ADDITIONAL INFORMATION.
6. 1U, 144 STRAND CAPACITY FIBER OPTIC ANGLED PATCH PANEL WITH 8-12 OM4 DUPLEX LC FIBER CASSETTES. PATCH PANEL TO FEED 96 STRANDS OF B SIDE HDA FIBER OPTIC CABLE: PROVIDE 4-12ST MPO TO MPO OM4 TRUNK CABLES TO THE A SIDE MDA NETWORK CABINET RK-305 AND 4-12ST MPO TO MPO OM4 TRUNK CABLES TO THE B SIDE MDA NETWORK CABINET RK-302. REFER TO DIAGRAM, 2/47-T600, TYPICAL DATA CENTER DIVERSE ROUTING HDA TO MDA DIAGRAM, FOR ADDITIONAL WIRING INFORMATION. REFER TO DETAIL 2/00-T505, HDA CABINET BACKBONE DISTRIBUTOR DETAIL, FOR ADDITIONAL INFORMATION.
7. 1U, 48-PORT UTP CAT6A ANGLED PATCH PANEL WITH 48 YELLOW RJ45 JACKS. PATCH PANEL TO FEED 48 B SIDE HDA CAT6A CABLES TO THE B SIDE MDA NETWORK CABINET, RK-302. REFER TO DIAGRAM 2/47-T600, TYPICAL DATA CENTER DIVERSE ROUTING HDA TO MDA DIAGRAM, FOR ADDITIONAL WIRING INFORMATION.
8. 1U, 144 STRAND CAPACITY FIBER OPTIC ANGLED PATCH PANEL WITH 4-12 OM4 DUPLEX LC FIBER CASSETTES. PATCH PANEL TO FEED 48 STRANDS OF B SIDE HDA FIBER OPTIC CABLE: PROVIDE 2-12ST MPO TO MPO OM4 TRUNK CABLES TO THE B SIDE HDA EQUIPMENT DISTRIBUTORS OF TWO SERVER CABINETS LOCATED IN ROW 1 (TYP). REFER TO DIAGRAM, 3/47-T600, TYPICAL DATA CENTER DIVERSE ROUTING HDA TO SERVER CABINETS DIAGRAM, FOR ADDITIONAL WIRING INFORMATION.
9. 1U, 48-PORT UTP CAT6A ANGLED PATCH PANEL. PATCH PANEL TO FEED 48 B SIDE HDA CAT6A CABLES: PROVIDE 24 CAT6A CABLES TO THE B SIDE HDA EQUIPMENT DISTRIBUTORS OF TWO SERVER CABINETS LOCATED IN ROW 1 (TYP). REFER TO DIAGRAM, 3/47-T600, TYPICAL DATA CENTER DIVERSE ROUTING HDA TO SERVER CABINETS DIAGRAM, FOR ADDITIONAL WIRING INFORMATION.
10. 1U, 144 STRAND CAPACITY FIBER OPTIC ANGLED PATCH PANEL WITH 4-12 OM4 DUPLEX LC FIBER CASSETTES. PATCH PANEL TO FEED 48 STRANDS OF A-B SIDE HDA INTERCONNECTION: PROVIDE 4-12ST MPO TO MPO OM4 TRUNK CABLES TO THE B SIDE HDA NETWORK CABINET RK-101. REFER TO DIAGRAM, 3/47-T600, TYPICAL DATA CENTER DIVERSE ROUTING HDA TO SERVER CABINETS DIAGRAM, FOR ADDITIONAL WIRING INFORMATION. REFER TO DETAIL 2/00-T505, HDA CABINET BACKBONE DISTRIBUTOR DETAIL, FOR ADDITIONAL INFORMATION.

GENERAL NOTES:

1. REFER TO 00-T001 FOR GENERAL NOTES AND LEGENDS.
2. REFER TO 47-TN401 FOR EXACT LOCATION OF CABINETS.
3. PRIOR TO CONSTRUCTION, COORDINATION OF EQUIPMENT AND CONSTRUCTION SEQUENCING WITH SYSTEM OWNERS AND VA COR IS REQUIRED. SYSTEM OWNERS WERE UNKNOWN AT TIME OF DESIGN. DESIGN INTENT IS TO CONSOLIDATE EXISTING SYSTEMS IN NEW DATA CENTER THEN DEMOLISH THE OLD SYSTEMS. HOWEVER, THERE ARE SYSTEMS THAT WILL NEED TO BE TAKEN DOWN DURING CONSTRUCTION, COORDINATE THESE WITH SYSTEM OWNERS AND VA COR.

LEGEND:

NEW DATA CENTER CABINET REFERENCE

NEW CABINET #	ADDITIONAL INFORMATION	SYSTEM OWNER
RK-101	NEW HDA B SIDE NETWORK CABINET	VA
RK-102	EXISTING NURSE CALL SERVER CABINET	UNKNOWN
RK-103	EXISTING BMS & BIOMED 2 SERVER CABINETS	UNKNOWN & BIOMED
RK-104	EXISTING BIOMED 5 SERVER CABINET	BIOMED
RK-105	EXISTING BIOMED 3 SERVER CABINET	BIOMED
RK-106	EXISTING BIOMED 1 SERVER CABINET	BIOMED
RK-107	EXISTING ROW1RK023 SERVER CABINET	BIOMED
RK-108	EXISTING ROW1RK024 & BIOMED 4 SERVER CABINETS	BIOMED
RK-109	EXISTING ROW1RK025 & ROW1RKJ16 SERVER CABINETS	BIOMED
RK-110	NEW HDA A SIDE NETWORK CABINET	VA
RK-201	NEW HDA B SIDE NETWORK CABINET	VA
RK-202	EXISTING ROW3RKL26 & ROW4RKJ18 SERVER CABINETS	UNKNOWN
RK-203	EXISTING ROW3RKL22 SERVER CABINET	IMAGING
RK-204	EXISTING ROW3RKL23 SERVER CABINET	IMAGING
RK-205	EXISTING ROW3RKL24 SERVER CABINET	IMAGING
RK-206	EXISTING ROW3RKL25 SERVER CABINET	IMAGING
RK-207	EXISTING ROW2RKM18 & ROW3RKL21 SERVER CABINETS	UNKNOWN
RK-208	EXISTING ROW4RKJ15 SERVER CABINET	BIOMED AND VOIP
RK-209	EXISTING ROW4RKJ17 SERVER CABINET	BIOMED AND PHARMA AUDIO
RK-210	NEW CERNER SERVER CABINET	VA
RK-211	NEW CERNER SERVER CABINET	VA
RK-212	NEW HDA A SIDE NETWORK CABINET	VA
RK-301	NEW MDA B SIDE NETWORK CABINET	VA
RK-302	NEW MDA B SIDE NETWORK CABINET	VA
RK-303	NEW MDA B SIDE NETWORK CABINET	VA
RK-304	NEW MDA A SIDE NETWORK CABINET	VA
RK-305	NEW MDA A SIDE NETWORK CABINET	VA
RK-306	NEW MDA A SIDE NETWORK CABINET	VA

Revisions:	Date:

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Facilities Management Services

VA U.S. Department of Veterans Affairs

Drawing Title: TELECOMMUNICATIONS RACK ELEVATIONS

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 47

Drawing Number: 47-TN610

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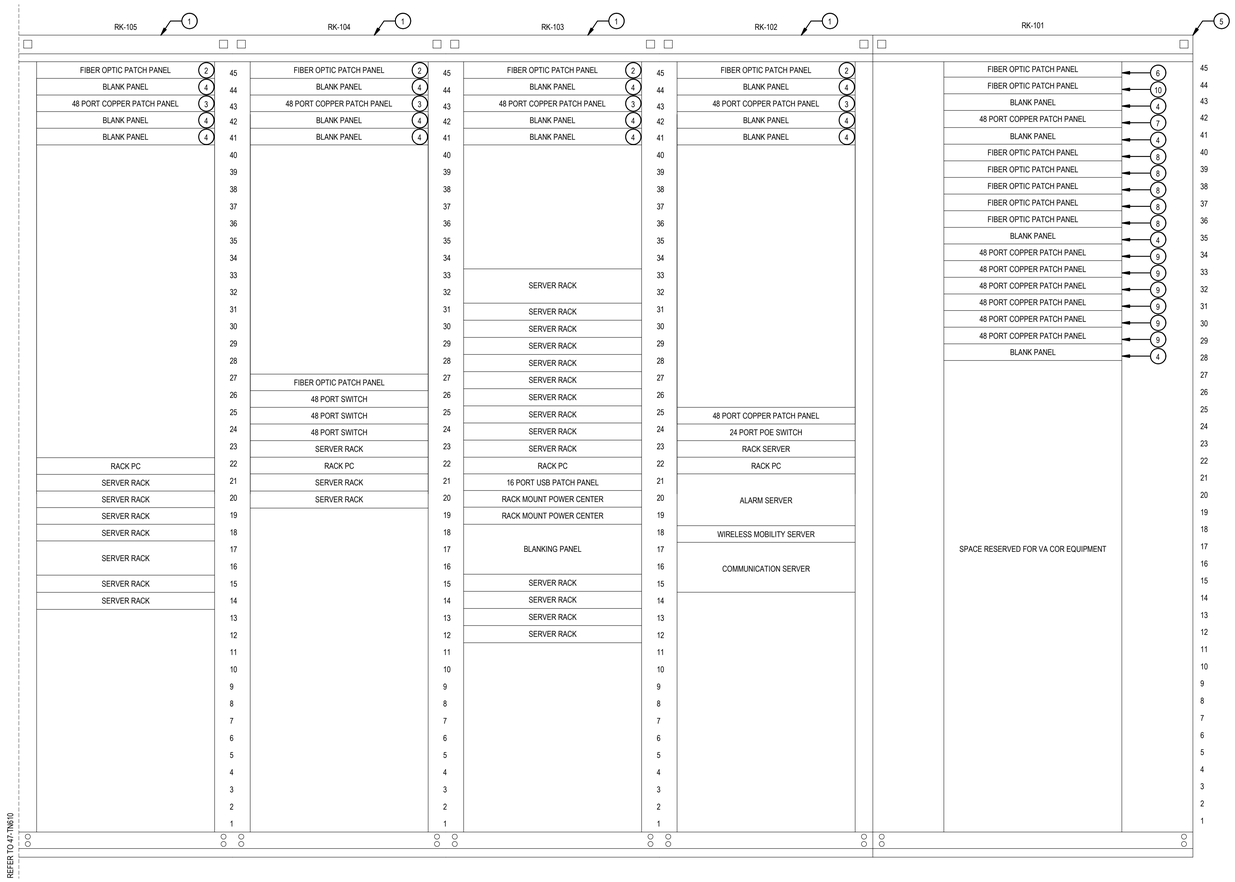

1 DC RK-105 THRU RK-101
N.T.S.

SHEET NOTES:

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10. 1U, 144 STRAND CAPACITY FIBER OPTIC ANGLED PATCH PANEL WITH 4-12 OM4 DUPLEX LC FIBER CASSETTES. PATCH PANEL TO FEED 48 STRANDS OF A-B SIDE HDA INTERCONNECTION: PROVIDE 4-12ST MPO TO MPO OM4 TRUNK CABLES TO THE A SIDE HDA NETWORK CABINET RK-110. REFER TO DIAGRAM, 3/47-T600, TYPICAL DATA CENTER DIVERSE ROUTING HDA TO SERVER CABINETS DIAGRAM, FOR ADDITIONAL WIRING INFORMATION. REFER TO DETAIL 2/00-T505, HDA CABINET BACKBONE DISTRIBUTOR DETAIL, FOR ADDITIONAL INFORMATION.

GENERAL NOTES:

1. REFER TO 00-T001 FOR GENERAL NOTES AND LEGENDS.
2. REFER TO 47-TN401 FOR EXACT LOCATION OF CABINETS.
3. PRIOR TO CONSTRUCTION, COORDINATION OF EQUIPMENT AND CONSTRUCTION SEQUENCING WITH SYSEM OWNERS AND VA COR IS REQUIRED. SYSTEM OWNERS WERE UNKNOWN AT TIME OF DESIGN. DESIGN INTENT IS TO CONSOLIDATE EXISTING SYSTEMS IN NEW DATA CENTER THEN DEMOLISH THE OLD SYSTEMS. HOWEVER, THERE ARE SYSTEMS THAT WILL NEED TO BE TAKEN DOWN DURING CONSTRUCTION, COORDINATE THESE WITH SYSTEM OWNERS AND VA COR.

LEGEND:

NEW DATA CENTER CABINET REFERENCE

NEW CABINET #	ADDITIONAL INFORMATION	SYSTEM OWNER
RK-101	NEW HDA B SIDE NETWORK CABINET	VA
RK-102	EXISTING NURSE CALL SERVER CABINET	UNKNOWN
RK-103	EXISTING BMS & BIOMED 2 SERVER CABINETS	UNKNOWN & BIOMED
RK-104	EXISTING BIOMED 5 SERVER CABINET	BIOMED
RK-105	EXISTING BIOMED 3 SERVER CABINET	BIOMED
RK-106	EXISTING BIOMED 1 SERVER CABINET	BIOMED
RK-107	EXISTING ROW1RKO23 SERVER CABINET	BIOMED
RK-108	EXISTING ROW1RKO24 & BIOMED 4 SERVER CABINETS	BIOMED
RK-109	EXISTING ROW1RKO25 & ROW1RKJ16 SERVER CABINETS	BIOMED
RK-110	NEW HDA A SIDE NETWORK CABINET	VA
RK-201	NEW HDA B SIDE NETWORK CABINET	VA
RK-202	EXISTING ROW3RKL26 & ROW4RKJ18 SERVER CABINETS	UNKNOWN
RK-203	EXISTING ROW3RKL22 SERVER CABINET	IMAGING
RK-204	EXISTING ROW3RKL23 SERVER CABINET	IMAGING
RK-205	EXISTING ROW3RKL24 SERVER CABINET	IMAGING
RK-206	EXISTING ROW3RKL25 SERVER CABINET	IMAGING
RK-207	EXISTING ROW2RKM18 & ROW3RKL21 SERVER CABINETS	UNKNOWN
RK-208	EXISTING ROW4RKJ15 SERVER CABINET	BIOMED AND VOIP
RK-209	EXISTING ROW4RKJ17 SERVER CABINET	BIOMED AND PHARMA AUDIO
RK-210	NEW CERNER SERVER CABINET	VA
RK-211	NEW CERNER SERVER CABINET	VA
RK-212	NEW HDA A SIDE NETWORK CABINET	VA
RK-301	NEW MDA B SIDE NETWORK CABINET	VA
RK-302	NEW MDA B SIDE NETWORK CABINET	VA
RK-303	NEW MDA B SIDE NETWORK CABINET	VA
RK-304	NEW MDA A SIDE NETWORK CABINET	VA
RK-305	NEW MDA A SIDE NETWORK CABINET	VA
RK-306	NEW MDA A SIDE NETWORK CABINET	VA

Revisions:	Date:

ARCHITECT/ENGINEER OF RECORD

AWEN SOLUTIONS GROUP
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EXPIRES 12-31-26
12/18/2025

Facilities Management Services

VA U.S. Department of Veterans Affairs

Drawing Title: TELECOMMUNICATIONS RACK ELEVATIONS

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 47

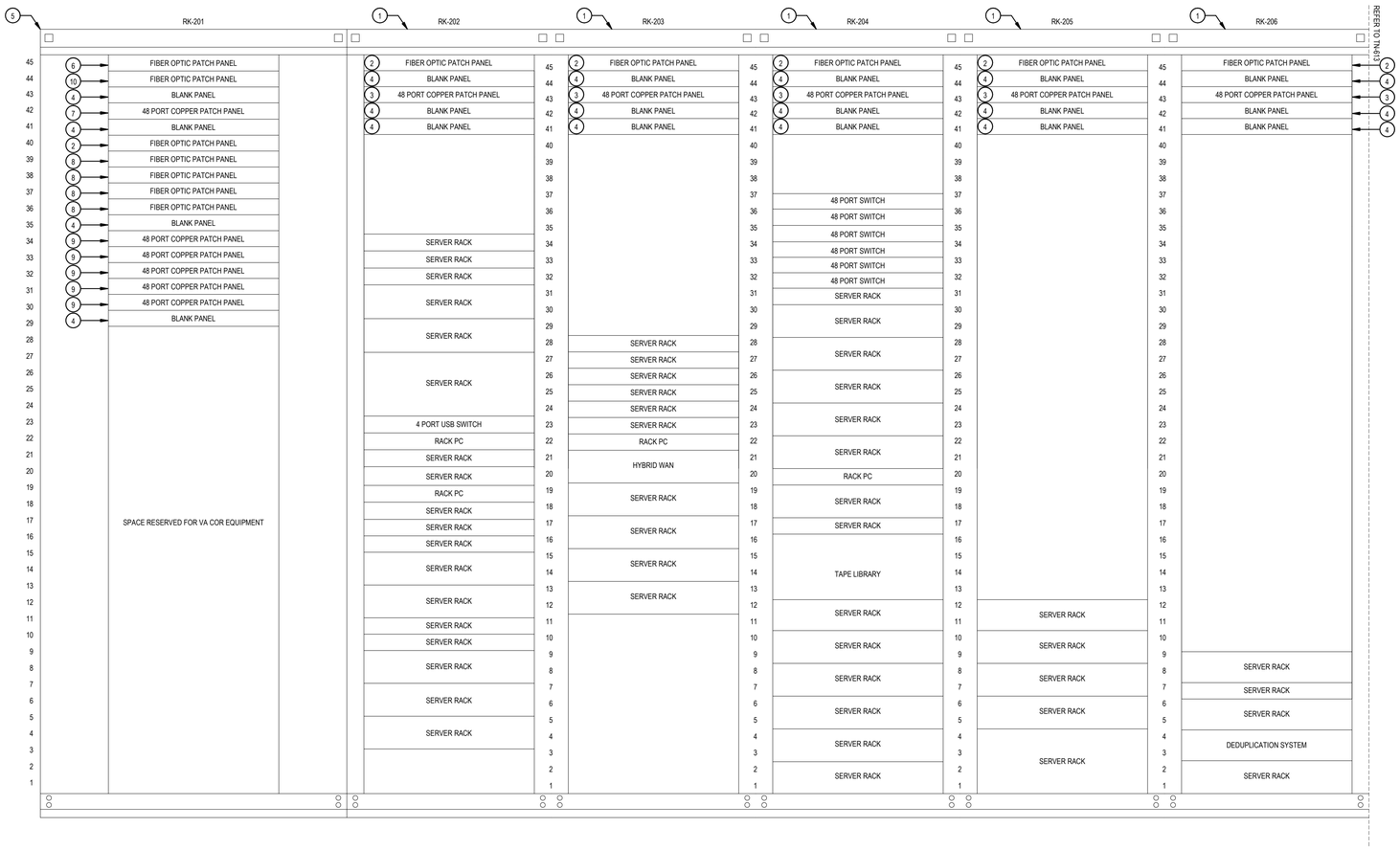
Drawing Number: 47-TN611

SHEET OF 100

VA FORM 08 - 6231

12/18/2025 6:01:45 PM

Autodesk Docs://Asheville EHRM_V23/637-22-700.047 E ASH - EHRM.rvt



1 DC RK-201 THRU RK-206
N.T.S.

SHEET NOTES:

1. 45U FREE STANDING 24" 4-POST SERVER CABINET. SERVER CABINET TO BE FED FROM THE A AND B HDA NETWORK CABINETS, RK-201 AND RK-212. REFER TO DIAGRAM 3/47-T600, TYPICAL DATA CENTER DIVERSE ROUTING HDA TO SERVER CABINETS DIAGRAM, FOR ADDITIONAL INFORMATION.
2. 1U, 144 STRAND CAPACITY FIBER OPTIC ANGLED PATCH PANEL WITH 4-12 OM4 DUPLEX LC FIBER CASSETTES. PATCH PANEL TO BE FED 48 STRANDS OF FIBER OPTIC CABLE: PROVIDE 2-12 ST MPO TO MPO OM4 TRUNK CABLES FROM THE A SIDE HDA NETWORK CABINET, RK-212, AND 2-12ST MPO TO MPO OM4 TRUNK CABLES FROM THE B SIDE HDA NETWORK CABINET, RK-201. REFER TO DIAGRAM 3/47-T600, TYPICAL DATA CENTER DIVERSE ROUTING HDA TO SERVER CABINETS DIAGRAM, FOR ADDITIONAL WIRING INFORMATION. REFER TO DETAIL 1/00-T505, SERVER EQUIPMENT DISTRIBUTOR DETAIL, FOR ADDITIONAL INFORMATION PATCH PANEL LAYOUT.
3. 1U, 48-PORT UTP CAT6A ANGLED PATCH PANEL. PATCH PANEL TO BE FED 48 CAT6A CABLES: PROVIDE 24 CAT6A CABLES FROM THE A SIDE HDA NETWORK CABINET, RK-212, AND 24 CAT6A CABLES FROM THE B SIDE HDA NETWORK CABINET, RK-201. REFER TO DIAGRAM 3/47-T600, TYPICAL DATA CENTER DIVERSE ROUTING HDA TO SERVER CABINETS DIAGRAM, FOR ADDITIONAL WIRING INFORMATION. REFER TO DETAIL 1/00-T505, SERVER EQUIPMENT DISTRIBUTOR DETAIL, FOR ADDITIONAL PATCH PANEL LAYOUT INFORMATION.
4. ANGLED BLANKING PANEL, 1U.
5. 45U FREE STANDING 40" 4-POST B SIDE HDA NETWORK CABINET. NETWORK CABINET TO FEED THE B SIDE HDA FIBER TO EACH SERVER CABINET AND TO THE A AND B SIDE MDAS. SEE DIAGRAMS 2/47-TN600, TYPICAL DATA CENTER DIVERSE ROUTING HDA TO MDA DIAGRAM, AND 3/47-TN600, TYPICAL DATA CENTER DIVERSE ROUTING HDA TO SERVER CABINETS DIAGRAM, FOR ADDITIONAL INFORMATION.
6. 1U, 144 STRAND CAPACITY FIBER OPTIC ANGLED PATCH PANEL WITH 8-12 OM4 DUPLEX LC FIBER CASSETTES. PATCH PANEL TO FEED 96 STRANDS OF B SIDE HDA FIBER OPTIC CABLE: PROVIDE 4-12ST MPO TO MPO OM4 TRUNK CABLES TO THE A SIDE MDA NETWORK CABINET RK-305 AND 4-12ST MPO TO MPO OM4 TRUNK CABLES TO THE B SIDE MDA NETWORK CABINET RK-302. REFER TO DIAGRAM, 2/47-T600, TYPICAL DATA CENTER DIVERSE ROUTING HDA TO MDA DIAGRAM, FOR ADDITIONAL WIRING INFORMATION. REFER TO DETAIL 2/00-T505, HDA CABINET BACKBONE DISTRIBUTOR DETAIL, FOR ADDITIONAL INFORMATION.
7. 1U, 48-PORT UTP CAT6A ANGLED PATCH PANEL WITH 48 YELLOW RJ45 JACKS. PATCH PANEL TO FEED 48 B SIDE HDA CAT6A CABLES TO THE B SIDE MDA NETWORK CABINET, RK-302. REFER TO DIAGRAM 2/47-T600, TYPICAL DATA CENTER DIVERSE ROUTING HDA TO MDA DIAGRAM, FOR ADDITIONAL WIRING INFORMATION.
8. 1U, 144 STRAND CAPACITY FIBER OPTIC ANGLED PATCH PANEL WITH 4-12 OM4 DUPLEX LC FIBER CASSETTES. PATCH PANEL TO FEED 48 STRANDS OF B SIDE HDA FIBER OPTIC CABLE: PROVIDE 2-12ST MPO TO MPO OM4 TRUNK CABLES TO THE B SIDE HDA EQUIPMENT DISTRIBUTORS OF TWO SERVER CABINETS LOCATED IN ROW 2 (TYP). REFER TO DIAGRAM, 3/47-T600, TYPICAL DATA CENTER DIVERSE ROUTING HDA TO SERVER CABINETS DIAGRAM, FOR ADDITIONAL WIRING INFORMATION.
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GENERAL NOTES:

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RK-203	EXISTING ROW3RKL22 SERVER CABINET	IMAGING
RK-204	EXISTING ROW3RKL23 SERVER CABINET	IMAGING
RK-205	EXISTING ROW3RKL24 SERVER CABINET	IMAGING
RK-206	EXISTING ROW3RKL25 SERVER CABINET	IMAGING
RK-207	EXISTING ROW2RKM18 & ROW3RKL21 SERVER CABINETS	UNKNOWN
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RK-209	EXISTING ROW4RKJ17 SERVER CABINET	BIOMED AND PHARMA AUDIO
RK-210	NEW CERNER SERVER CABINET	VA
RK-211	NEW CERNER SERVER CABINET	VA
RK-212	NEW HDA A SIDE NETWORK CABINET	VA
RK-301	NEW MDA B SIDE NETWORK CABINET	VA
RK-302	NEW MDA B SIDE NETWORK CABINET	VA
RK-303	NEW MDA B SIDE NETWORK CABINET	VA
RK-304	NEW MDA A SIDE NETWORK CABINET	VA
RK-305	NEW MDA A SIDE NETWORK CABINET	VA
RK-306	NEW MDA A SIDE NETWORK CABINET	VA

Revisions: Date:

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Expires:12-31-28
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Facilities Management Services

VA U.S. Department of Veterans Affairs

Drawing Title: TELECOMMUNICATIONS RACK ELEVATIONS

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 47

Drawing Number: 47-TN612

SHEET OF 100

VA FORM 08 - 6231

12/18/2025 6:01:48 PM

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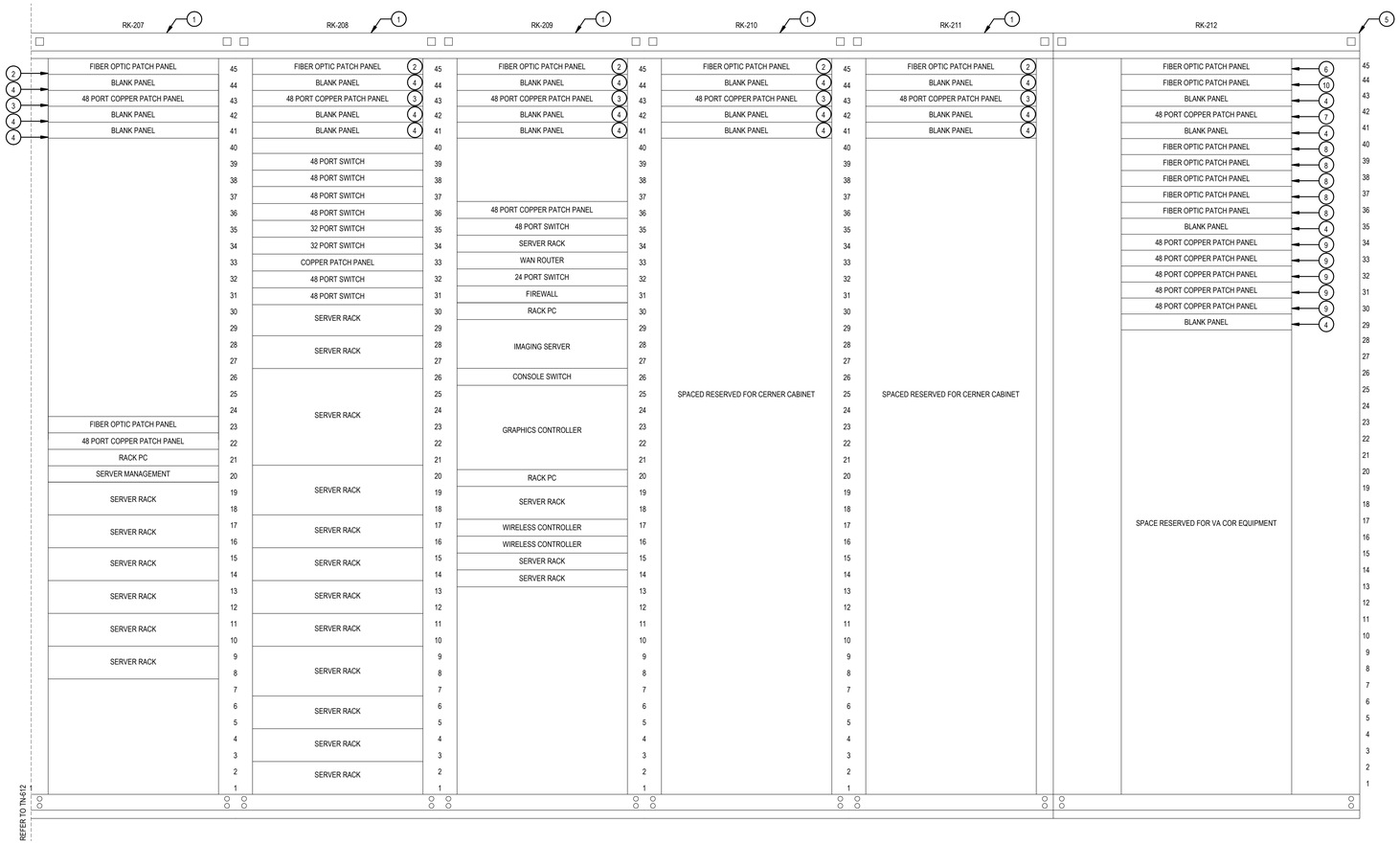

1 DC RK-207 THRU RK-212
N.T.S.

SHEET NOTES:

1. 45U FREE STANDING 24" 4-POST SERVER CABINET. SERVER CABINET TO BE FED FROM THE A AND B HDA NETWORK CABINETS, RK-201 AND RK-212. REFER TO DIAGRAM 3/47-T600, TYPICAL DATA CENTER DIVERSE ROUTING HDA TO SERVER CABINETS DIAGRAM, FOR ADDITIONAL INFORMATION.
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RK-105	EXISTING BIOMED 3 SERVER CABINET	BIOMED
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RK-211	NEW CERNER SERVER CABINET	VA
RK-212	NEW HDA A SIDE NETWORK CABINET	VA
RK-301	NEW MDA B SIDE NETWORK CABINET	VA
RK-302	NEW MDA B SIDE NETWORK CABINET	VA
RK-303	NEW MDA B SIDE NETWORK CABINET	VA
RK-304	NEW MDA A SIDE NETWORK CABINET	VA
RK-305	NEW MDA A SIDE NETWORK CABINET	VA
RK-306	NEW MDA A SIDE NETWORK CABINET	VA

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Facilities Management Services

VA U.S. Department of Veterans Affairs

Drawing Title: TELECOMMUNICATIONS RACK ELEVATIONS

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 47

Drawing Number: 47-TN613

SHEET OF 100

VA FORM 08 - 6231

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RK-305	NEW MDA A SIDE NETWORK CABINET	VA
RK-306	NEW MDA A SIDE NETWORK CABINET	VA

SHEET NOTES:

1. 45U FREE STANDING 40" 4-POST A SIDE MDA NETWORK CABINET. NETWORK CABINETS TO FEED 1980 STRANDS OF THE B SIDE MAIN DISTRIBUTION FIBER SPLIT BETWEEN ALL TELECOM ROOMS AND TELECOM ENCLOSURES. REFER TO DIAGRAM 1/47-TN600, TELECOMMUNICATIONS RISER DIAGRAM, FOR ADDITIONAL WIRING INFORMATION.
2. 45U FREE STANDING 40" 4-POST A SIDE MDA NETWORK CABINET. NETWORK CABINETS TO BE FED FROM THE A SIDE AND B SIDE HDA. REFER TO DIAGRAM 2/47-TN600, TYPICAL DATA CENTER DIVERSE ROUTING HDA TO MDA DIAGRAM, FOR ADDITIONAL WIRING INFORMATION.
3. 45U FREE STANDING 40" 4-POST A SIDE MDA NETWORK CABINET. NETWORK CABINETS IS RESERVED FOR ISP EQUIPMENT. PRIOR TO CONSTRUCTION, COORDINATION OF EQUIPMENT AND CONSTRUCTION SEQUENCING WITH ISP AND VA COR IS REQUIRED.
4. 1U, 144 STRAND CAPACITY FIBER OPTIC ANGLED PATCH PANEL WITH 6-24 OM4 DUPLEX LC FIBER SPLICE CASSETTES AND SPLICE KIT. PATCH PANEL TO FEED 144 STRANDS OF A SIDE FIBER OPTIC CABLE: PROVIDE 1-24 ST OM4 CABLE TO THE FIBER OPTIC PATCH PANEL IN EACH INTRABUILDING TELECOM ROOM (TYP). REFER TO DIAGRAM 1/47-TN600, TELECOMMUNICATIONS RISER DIAGRAM, FOR ADDITIONAL WIRING INFORMATION.
5. 1U, 144 STRAND CAPACITY FIBER OPTIC ANGLED PATCH PANEL WITH 12-12 OM4 DUPLEX LC FIBER SPLICE CASSETTES AND SPLICE KIT. PATCH PANEL TO FEED 144 STRANDS OF A SIDE FIBER OPTIC CABLE: PROVIDE 1-12 ST OS1 CABLE TO THE FIBER OPTIC PATCH PANEL IN EACH INTRABUILDING TELECOM ROOMS (TYP). REFER TO DIAGRAM 1/47-TN600, TELECOMMUNICATIONS RISER DIAGRAM, FOR ADDITIONAL WIRING INFORMATION.
6. 1U, 144 STRAND CAPACITY FIBER OPTIC ANGLED PATCH PANEL WITH 6-24 OM4 DUPLEX LC FIBER SPLICE CASSETTES AND SPLICE KIT. PATCH PANEL TO FEED 144 STRANDS OF A SIDE FIBER OPTIC CABLE: PROVIDE 1-24 ST OS2 CABLE TO THE FIBER OPTIC PATCH PANEL IN EACH INTERBUILDING TELECOM ROOMS AND ENCLOSURES. REFER TO DIAGRAM 1/47-TN600, TELECOMMUNICATIONS RISER DIAGRAM, FOR ADDITIONAL WIRING INFORMATION.
7. 1U, 48-PORT UTP CAT6A ANGLED PATCH PANEL WITH 48 BLUE RJ45 JACKS. PATCH PANEL TO BE FED 48 CAT6A CABLES FROM THE B SIDE HDA NETWORK CABINET, RK-110. REFER TO DIAGRAM 2/47-T600, TYPICAL DATA CENTER DIVERSE ROUTING HDA TO MDA DIAGRAM, FOR ADDITIONAL WIRING INFORMATION.
8. 1U, 48-PORT UTP CAT6A ANGLED PATCH PANEL WITH 48 BLUE RJ45 JACKS. PATCH PANEL TO BE FED 48 CAT6A CABLES FROM THE A SIDE HDA NETWORK CABINET, RK-212. REFER TO DIAGRAM 2/47-T600, TYPICAL DATA CENTER DIVERSE ROUTING HDA TO MDA DIAGRAM, FOR ADDITIONAL WIRING INFORMATION.
9. ANGLED BLANKING PANEL, 1U.
10. 1U, 144 STRAND CAPACITY FIBER OPTIC ANGLED PATCH PANEL WITH 8-12 OM4 DUPLEX LC FIBER CASSETTES. PATCH PANEL TO FEED 96 STRANDS OF FIBER OPTIC CABLE: PROVIDE 4-12ST MPO TO MPO OM4 TRUNK CABLES FROM THE A SIDE MDA NETWORK CABINET RK-101 AND 4-12ST MPO TO MPO OM4 TRUNK CABLES FROM THE B SIDE HDA NETWORK CABINET RK-110. REFER TO DIAGRAM, 2/47-T600, TYPICAL DATA CENTER DIVERSE ROUTING HDA TO MDA DIAGRAM, FOR ADDITIONAL WIRING INFORMATION. REFER TO DETAIL 3/00-T505, MDA CABINET BACKBONE DISTRIBUTOR DETAIL, FOR ADDITIONAL INFORMATION.
11. 1U, 144 STRAND CAPACITY FIBER OPTIC ANGLED PATCH PANEL WITH 8-12 OM4 DUPLEX LC FIBER CASSETTES. PATCH PANEL TO FEED 96 STRANDS OF FIBER OPTIC CABLE: PROVIDE 4-12ST MPO TO MPO OM4 TRUNK CABLES FROM THE A SIDE MDA NETWORK CABINET RK-201 AND 4-12ST MPO TO MPO OM4 TRUNK CABLES FROM THE B SIDE HDA NETWORK CABINET RK-212. REFER TO DIAGRAM, 2/47-T600, TYPICAL DATA CENTER DIVERSE ROUTING HDA TO MDA DIAGRAM, FOR ADDITIONAL WIRING INFORMATION. REFER TO DETAIL 3/00-T505, MDA CABINET BACKBONE DISTRIBUTOR DETAIL, FOR ADDITIONAL INFORMATION.
12. 1U, 48-PORT UTP CAT6A ANGLED PATCH PANEL WITH 48 BLUE RJ45 JACKS. PATCH PANEL TO BE FED 48 CAT6A CABLES FROM THE B SIDE HDA NETWORK CABINET, RK-101. REFER TO DIAGRAM 2/47-T600, TYPICAL DATA CENTER DIVERSE ROUTING HDA TO MDA DIAGRAM, FOR ADDITIONAL WIRING INFORMATION.
13. 1U, 48-PORT UTP CAT6A ANGLED PATCH PANEL WITH 48 BLUE RJ45 JACKS. PATCH PANEL TO BE FED 48 CAT6A CABLES FROM THE B SIDE HDA NETWORK CABINET, RK-201. REFER TO DIAGRAM 2/47-T600, TYPICAL DATA CENTER DIVERSE ROUTING HDA TO MDA DIAGRAM, FOR ADDITIONAL WIRING INFORMATION.
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16. 1U, 144 STRAND CAPACITY FIBER OPTIC ANGLED PATCH PANEL WITH 6-24 OM4 DUPLEX LC FIBER SPLICE CASSETTES AND SPLICE KIT. PATCH PANEL TO FEED 144 STRANDS OF B SIDE FIBER OPTIC CABLE: PROVIDE 1-24 ST OS2 CABLE TO THE FIBER OPTIC PATCH PANEL IN EACH INTERBUILDING TELECOM ROOMS AND ENCLOSURES. REFER TO DIAGRAM 1/47-TN600, TELECOMMUNICATIONS RISER DIAGRAM, FOR ADDITIONAL WIRING INFORMATION.
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19. 45U FREE STANDING 40" 4-POST B SIDE MDA NETWORK CABINET. NETWORK CABINETS TO FEED 1980 STRANDS OF THE B SIDE MAIN DISTRIBUTION FIBER SPLIT BETWEEN ALL TELECOM ROOMS AND TELECOM ENCLOSURES. REFER TO DIAGRAM 1/47-TN600, TELECOMMUNICATIONS RISER DIAGRAM, FOR ADDITIONAL WIRING INFORMATION.

GENERAL NOTES:

1. REFER TO 00-T001 FOR GENERAL NOTES AND LEGENDS.
2. REFER TO 47-TN401 FOR EXACT LOCATION OF CABINETS.
3. PRIOR TO CONSTRUCTION, COORDINATION OF EQUIPMENT AND CONSTRUCTION SEQUENCING WITH VA COR IS REQUIRED. THERE ARE SYSTEMS THAT WILL NEED TO BE TAKEN DOWN DURING CONSTRUCTION, COORDINATE THESE WITH VA COR.

1 DC RK-306 THRU RK-301
N.T.S.

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 RACK ELEVATIONS

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 47

Drawing Number: 47-TN614

SHEET OF 100

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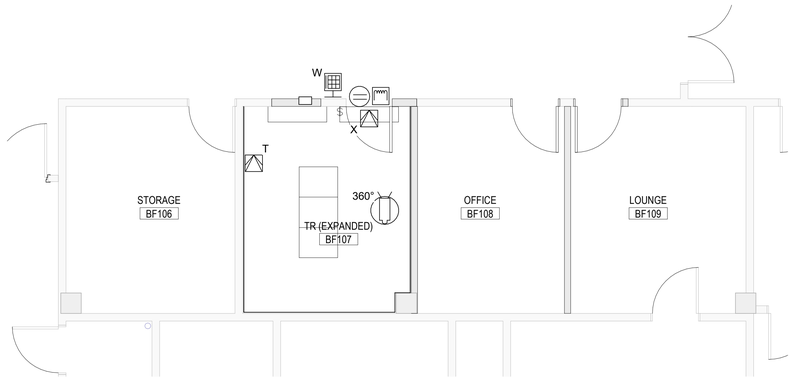
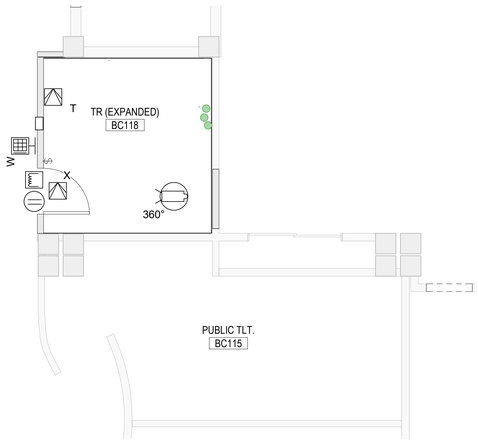
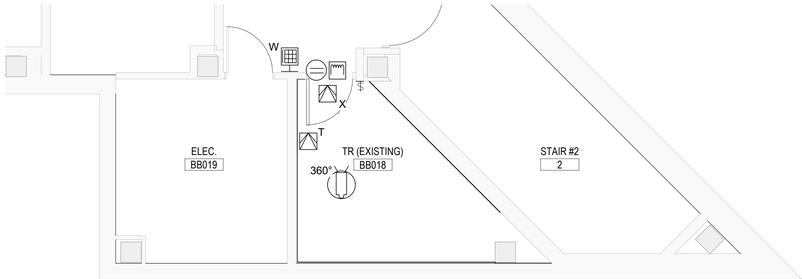


1 BASEMENT FLOOR PLAN - BF107
1/4" = 1'-0"



2 BASEMENT FLOOR PLAN - BC118
1/4" = 1'-0"



3 BASEMENT FLOOR PLAN - BB018
1/4" = 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.
- 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

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

PLAN/TRUE NORTH

FINAL BID DOCUMENTS

Revisions:	Date:

ARCHITECT/ENGINEER OF RECORD

AWEN SOLUTIONS GROUP
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STAMP: LICENSED ARCHITECT — GENE HAMILTON — No. C-13576 — REN. 07-31-27 — STATE OF CALIFORNIA

Facilities Management Services

VA U.S. Department of Veterans Affairs

Approved:

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Drawing Title	Phase	Project Title	Project Number
SECURITY PLAN - BASEMENT	FINAL BID DOCUMENTS	EHRM INFRASTRUCTURE UPGRADES	637-22-700
	FULLY SPRINKLERED	Location: 1100 TUNNEL ROAD, ASHEVILLE, NC 28805	Building Number: 47
		Issue Date: 12.19.2025 / Checked / Drawn	Drawing Number: 47-TY100A

SHEET 480 of 559

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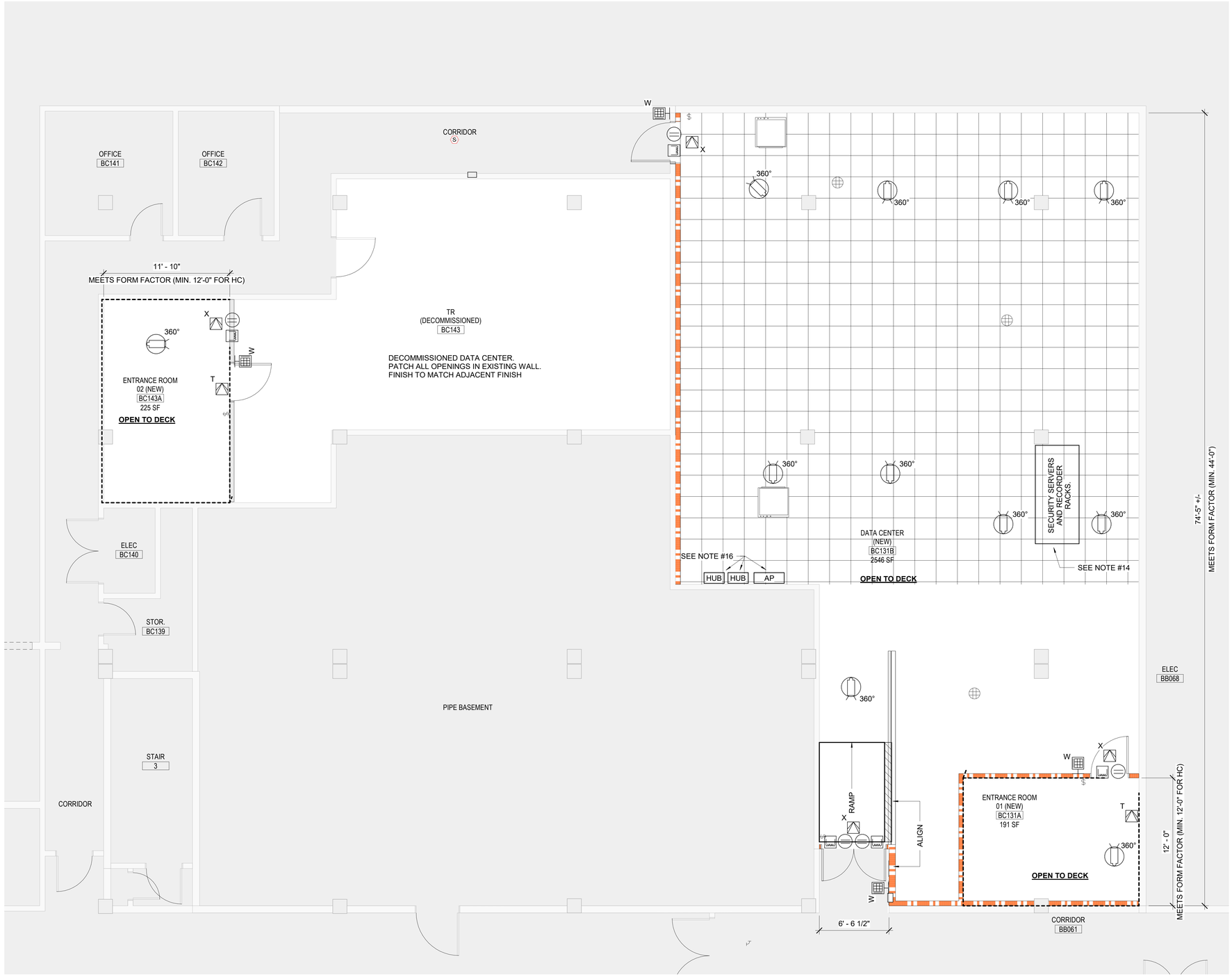

SHEET NOTES:

1. COORDINATE MOUNTING HEIGHTS AND INSTALLATION DETAILS WITH ARCHITECTURAL DRAWINGS.
2. BASE BUILDING SECURITY SYSTEM VENDOR 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 SECURITY HEAD-ENDS. NEW CAMERAS SHALL BE CONNECTED TO NEAREST AVAILABLE SECURITY CABINET. 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 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.
13. SUBMIT COMPLETE ACCESS CONTROL AND VIDEO SURVEILLANCE SUBMITTAL PACKAGE PER SPECIFICATION SECTIONS 282300-1.5D AND 281300-1.4D.
14. EXISTING SOFTWARE HOUSE SERVERS (MODEL: CCURE) AND SURVEILLANCE RECORDERS TO BE RELOCATED TO NEW DATACENTER. PROVIDE NEW CONNECTIONS TO ALL EQUIPMENT FED FROM THE RACKS IN THEIR NEW LOCATION.
15. WIRELESS CABINET LOCKS TO BE PROVIDED ON EXISTING AND NEW DATACENTER CABINET RACKS (ASSA ABLOY APERIO OR APPROVED EQUAL). SEE DETAIL #1 ON SHEET '00-TY501' FOR MORE INFORMATION.
16. PROVIDE (2X) NEW PHYSICAL SECURITY ACCESS PANEL WITH WIRELESS CABINET LOCK SYSTEM CONNECTIONS (BOD: APERIO OR APPROVED EQUAL). PROVIDE VENDOR PREPARED SHOP DRAWINGS SHOWING ALL COMPONENTS AND CONNECTIONS. SUBMIT TO ARCHITECT/ENGINEER FOR REVIEW AND APPRVOAL.

SYMBOLS LEGEND:

- W — CARD READER WITH KEYPAD (W - WALL MTD)
- 360° — CEILING MTD. CAMERA, 360 DEGREE, W/ SUPPLEMENTAL IR RING
- ELECTRONIC LOCK
- P — PUSH BUTTON (P-PANIC)
- SECURITY ACCESS, SWITCH, BALANCED MAGNETIC CONTROL
- MOTION DETECTOR
  - T-TRI-TECH (PIR, MICROWAVE, DOPPLER) OCCUPANCY MOTION SENSOR
  - X-REQUEST-TO-EXIT (DUAL TECH)
- DPS — ACCESS CONTROL DOOR POSITION SWITCH
- HUB — WIRELESS CABINET LOCK WIRELESS HUB (BOD: ASSA ABLOY APERIO)
- AP — ACCESS ANNUNCIATOR CONTROL PANEL (BOD: iSTAR)
- PUBLIC ADDRESS NOTIFICATION SPEAKERS

VENDOR CONTACT INFORMATION:

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

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

PLAN/TRUE NORTH

FINAL BID DOCUMENTS

Revisions:	Date:

ARCHITECT/ENGINEER OF RECORD

AWEN SOLUTIONS GROUP
ARCHITECTURE | ENGINEERING | PLANNING

A/E:
Awen Solutions Group
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Alexandria, VA 22314

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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: SECURITY PLAN - BASEMENT (DATACENTER)

Approved:

FOR OFFICIAL USE ONLY

Phase: FINAL BID DOCUMENTS

FULLY SPRINKLERED

Project Title: EHRM INFRASTRUCTURE UPGRADES

Project Number: 637-22-700

Building Number: 47

Location: 1100 TUNNEL ROAD, ASHEVILLE, NC 28805

Issue Date: 12.19.2025

Checked

Drawn

Drawing Number: 47-TY100B

SHEET 481 of 559

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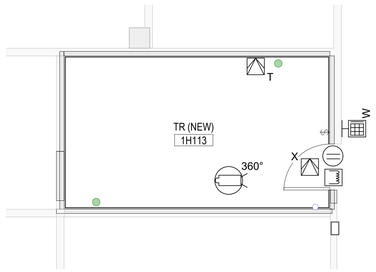
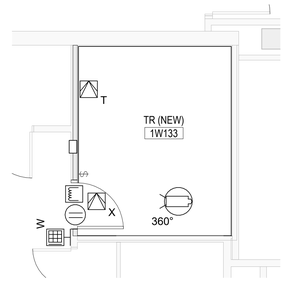
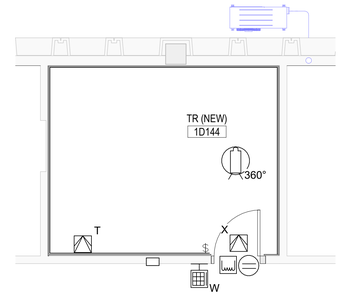


1 FIRST FLOOR SECURITY PLAN - NEW TR 1H113
1/4" = 1'-0"



2 FIRST FLOOR SECURITY PLAN - NEW TR 1W133
1/4" = 1'-0"



3 FIRST FLOOR SECURITY PLAN - TR 1D144
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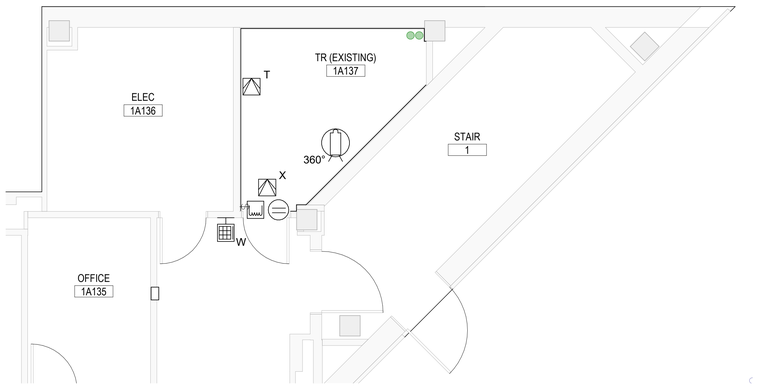

4 FIRST FLOOR SECURITY PLAN - TR 1A137
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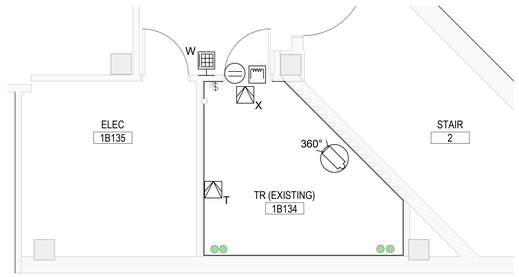

5 FIRST FLOOR SECURITY PLAN - TR 1B134
1/4" = 1'-0"

SHEET NOTES:

1. COORDINATE MOUNTING HEIGHTS AND INSTALLATION DETAILS WITH ARCHITECTURAL DRAWINGS.
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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.
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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

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

PLAN/TRUE NORTH

FINAL BID DOCUMENTS

Revisions:	Date:

ARCHITECT/ENGINEER OF RECORD

AWEN SOLUTIONS GROUP
ARCHITECTURE | ENGINEERING | PLANNING

A/E:
Awen Solutions Group
215 N. Payne Street, Suite 122
Alexandria, VA 22314

STAMP

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: SECURITY PLAN - 1ST FLOOR	Phase: FINAL BID DOCUMENTS	Project Title: EHRM INFRASTRUCTURE UPGRADES	Project Number: 637-22-700
			Building Number: 47
Approved: FOR OFFICIAL USE ONLY	FULLY SPRINKLERED	Location: 1100 TUNNEL ROAD ASHEVILLE, NC 28805	Drawing Number: 47-TY101
		Issue Date: 12.19.2025 / Checked / Drawn	SHEET 482 of 559

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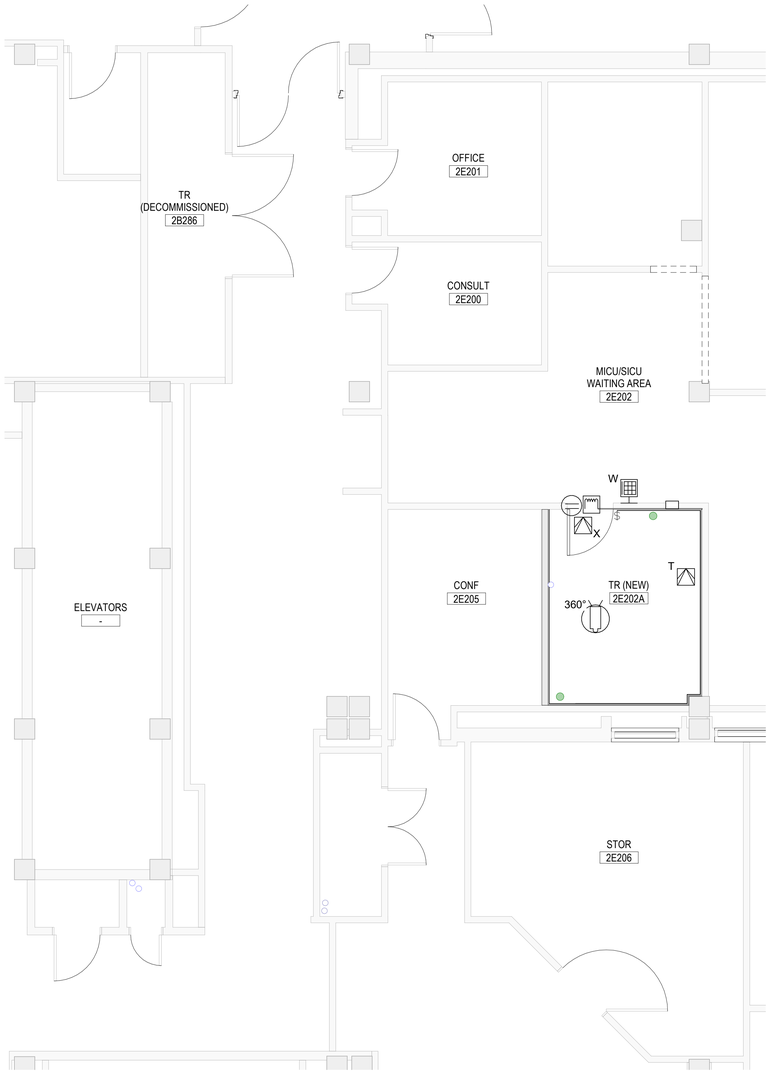
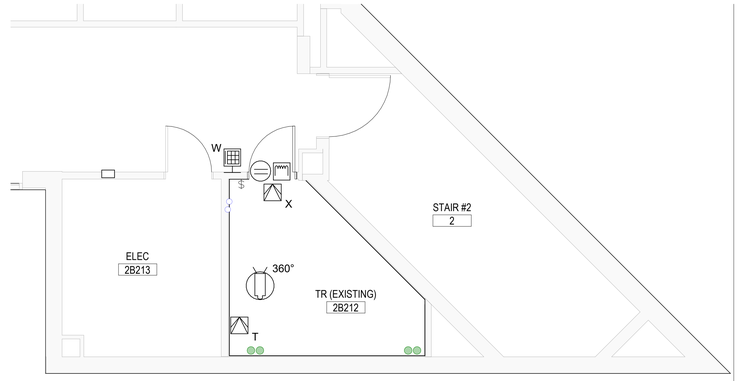


1 SECOND FLOOR SECURITY PLAN - TR 2B286
1/4" = 1'-0"



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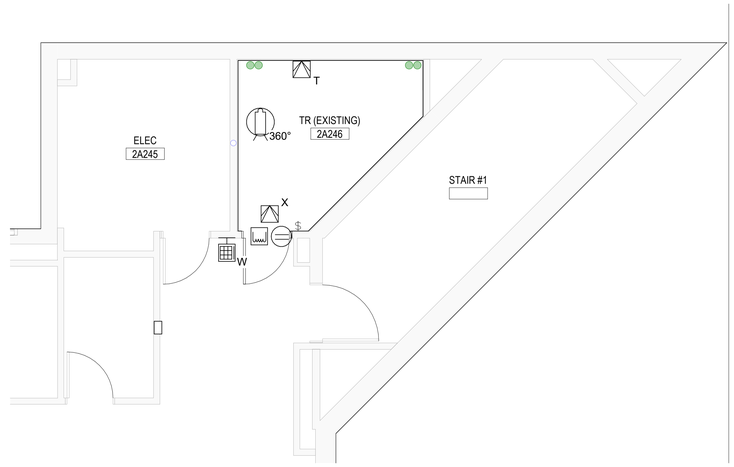
1/4" = 1'-0"



3 SECOND FLOOR SECURITY PLAN - TR 2A246
1/4" = 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.
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SYMBOLS LEGEND:

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VENDOR CONTACT INFORMATION:

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

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

PLAN/TRUE NORTH

FINAL BID DOCUMENTS

Revisions:	Date:

ARCHITECT/ENGINEER OF RECORD

AWEN SOLUTIONS GROUP
ARCHITECTURE | ENGINEERING | PLANNING

A/E:
Awen Solutions Group
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Alexandria, VA 22314

STAMP

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: SECURITY PLANS - 2ND FLOOR

Approved:

FOR OFFICIAL USE ONLY

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: 47

Drawing Number: 47-TY102

SHEET 483 of 559

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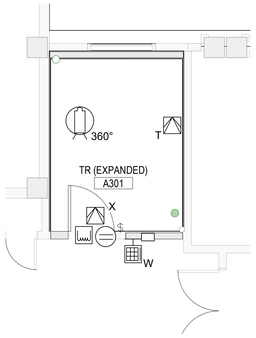
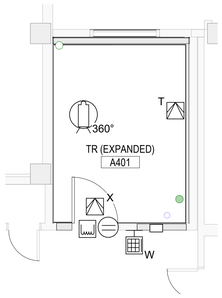
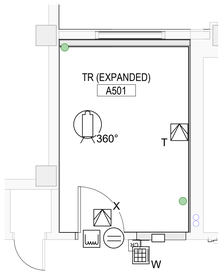


1 THIRD FLOOR SECURITY PLAN - TR A301
1/4" = 1'-0"



2 FOURTH FLOOR SECURITY PLAN - TR A401
1/4" = 1'-0"



3 FIFTH FLOOR SECURITY PLAN - TR A501
1/4" = 1'-0"

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DPS	ACCESS CONTROL DOOR POSITION SWITCH

VENDOR CONTACT INFORMATION:

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PLAN/TRUE NORTH

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LICENSED ARCHITECT GENE HAMILTON KING C-13576 REN. 07-31-27 STATE OF CALIFORNIA

Facilities Management Services

VA U.S. Department of Veterans Affairs

Drawing Title: SECURITY PLANS - 3RD, 4TH & 5TH FLOORS

Approved:

FOR OFFICIAL USE ONLY

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: 47

Drawing Number: 47-TY103

SHEET 484 of 559

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