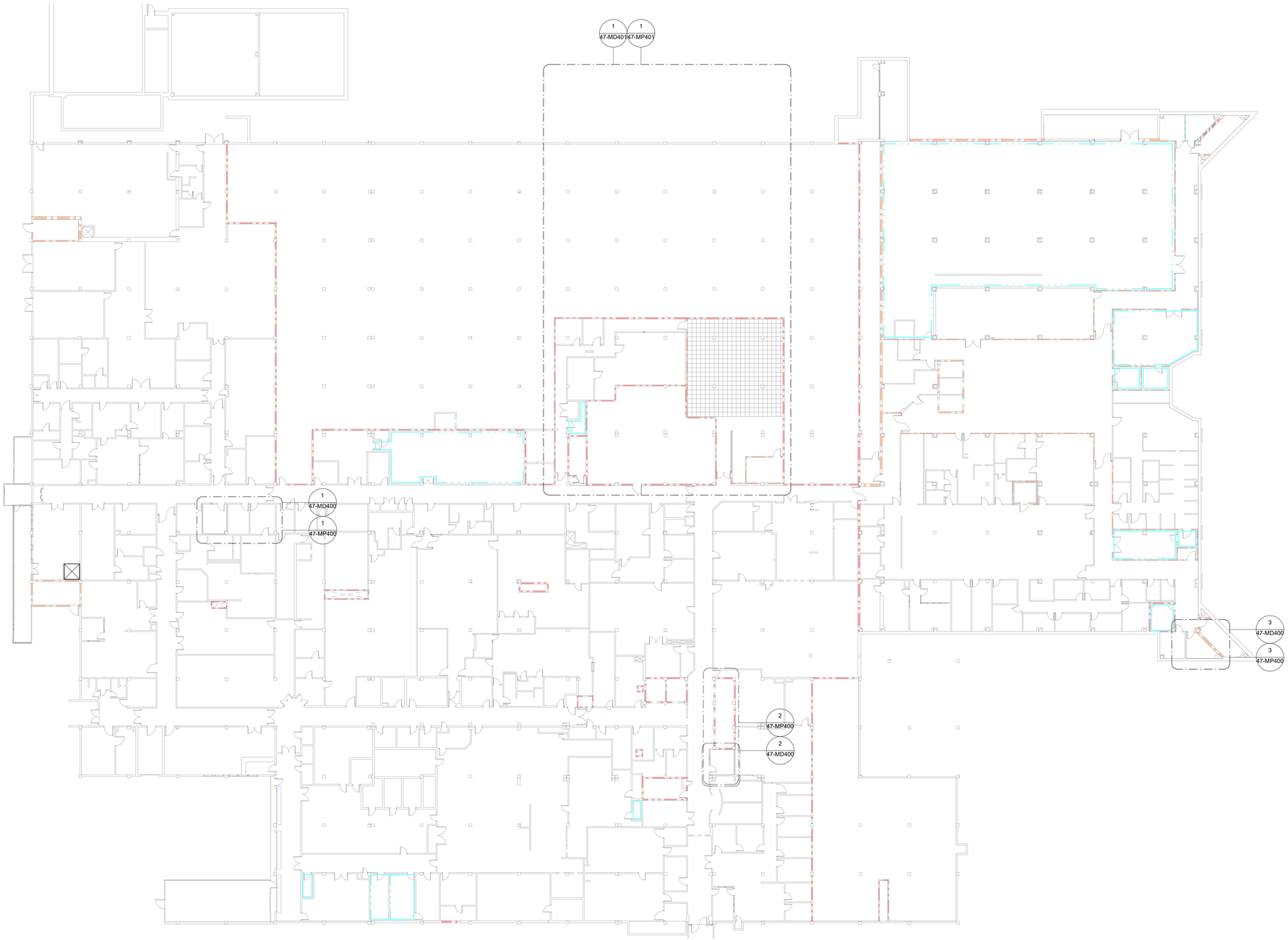


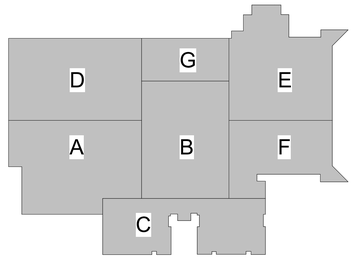
1 MECHANICAL BASEMENT PLAN - OVERALL
1" = 20'-0"

SHEET NOTES:

GENERAL NOTES:

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

FINAL BID DOCUMENTS

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Facilities Management Services

VA U.S. Department of Veterans Affairs

Drawing Title: MECHANICAL 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-MP100

SHEET 354 of 559

VA FORM 08 - 6231

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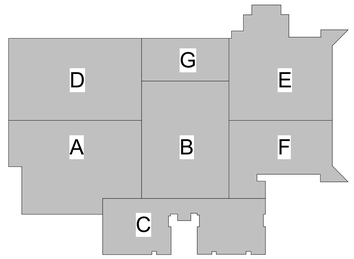
1 MECHANICAL 1ST FLOOR PLAN - OVERALL
1" = 20'-0"

SHEET NOTES:

GENERAL NOTES:

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

FINAL BID DOCUMENTS

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Drawing Title: MECHANICAL 1ST FLOOR PLAN - OVERALL

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-MP101

SHEET 355 of 559

VA FORM 08 - 6231

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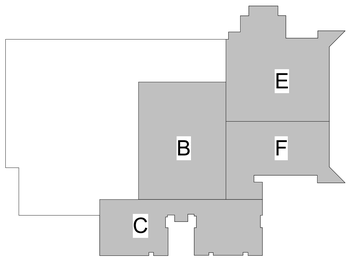
1 MECHANICAL 2ND FLOOR PLAN - OVERALL
1" = 20'-0"

SHEET NOTES:

GENERAL NOTES:

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

FINAL BID DOCUMENTS

Revisions:	Date:

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Drawing Title: MECHANICAL 2ND FLOOR PLAN - OVERALL	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-MP102
		Issue Date: 12.19.2025 / Checked: / Drawn:	SHEET 356 of 559

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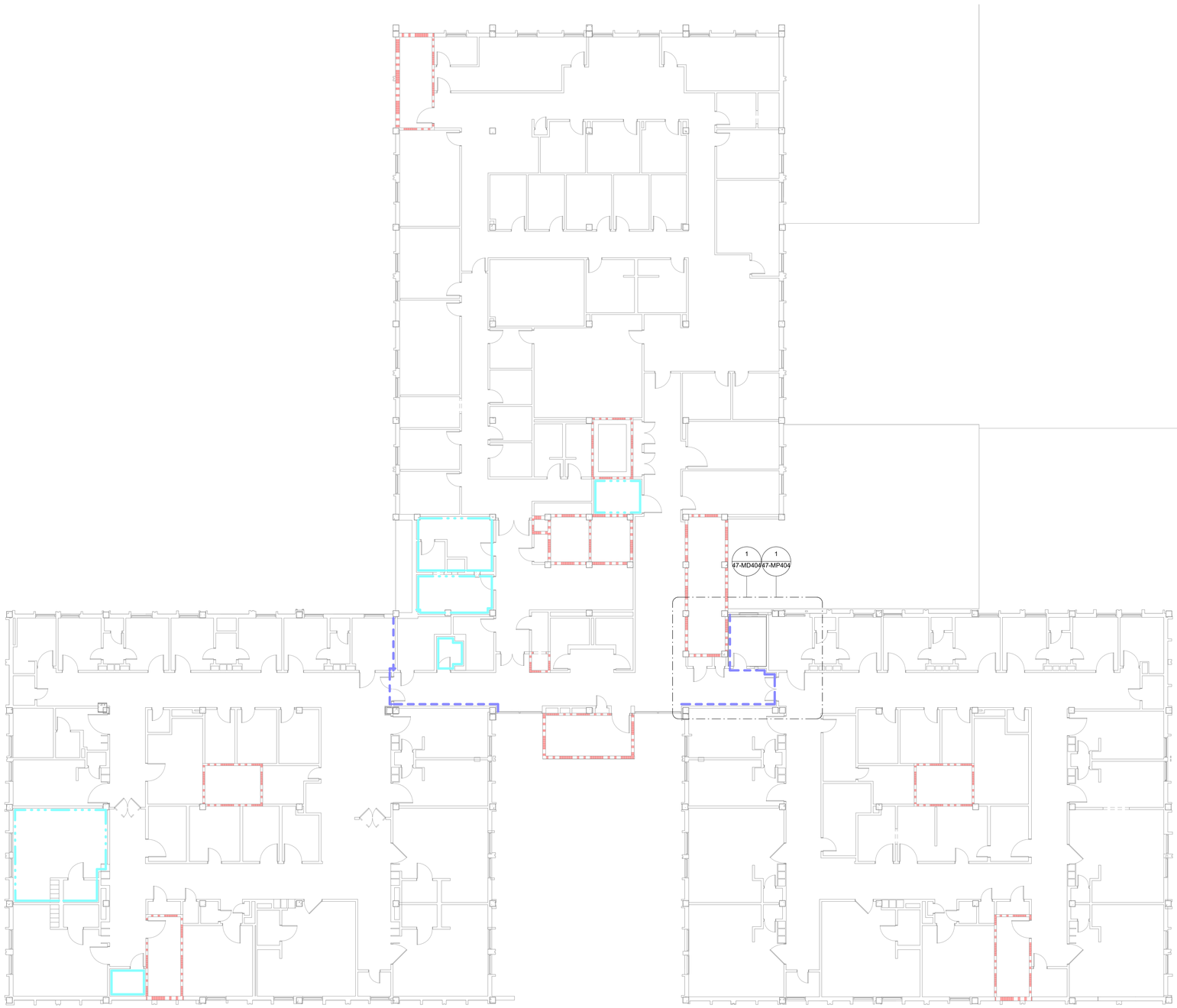


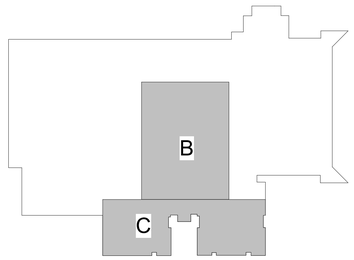
1 MECHANICAL 3RD FLOOR PLAN - OVERALL
3/32" = 1'-0"

SHEET NOTES:

GENERAL NOTES:

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

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Drawing Title: MECHANICAL 3RD 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-MP103

SHEET 357 of 559

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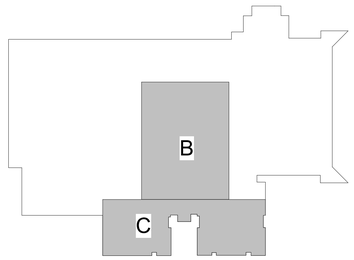
1 MECHANICAL 4TH FLOOR PLAN - OVERALL
3/32" = 1'-0"

SHEET NOTES:

GENERAL NOTES:

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

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Drawing Title: MECHANICAL 4TH FLOOR PLAN - OVERALL

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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-MP104

SHEET 358 of 559

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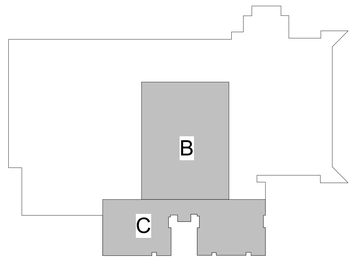
1 MECHANICAL 5TH FLOOR PLAN - OVERALL
3/32" = 1'-0"

SHEET NOTES:

GENERAL NOTES:

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

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Drawing Title: MECHANICAL 5TH FLOOR PLAN - OVERALL	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-MP105
		Issue Date: 12.19.2025 / Checked: / Drawn:	SHEET 359 of 559

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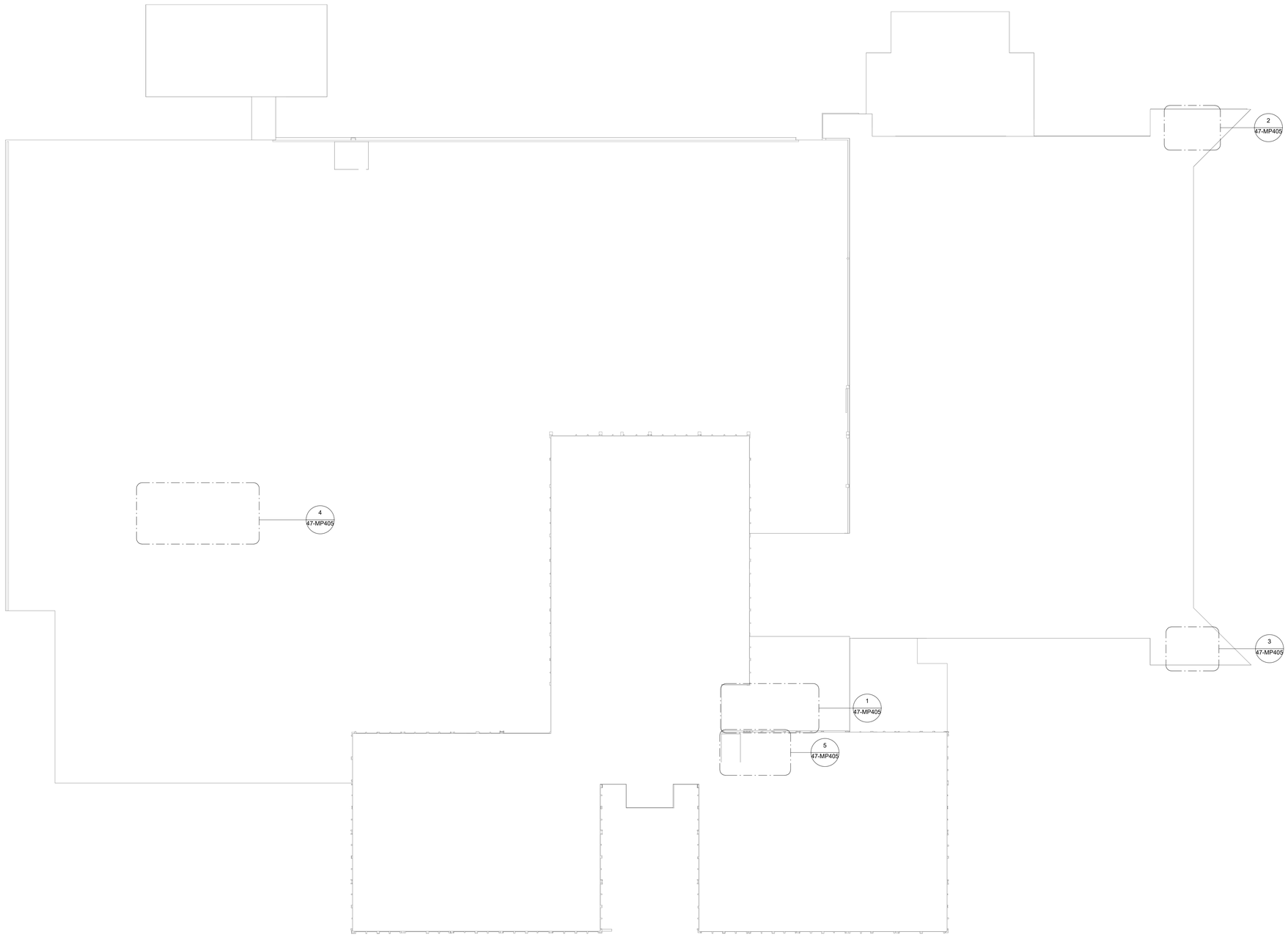
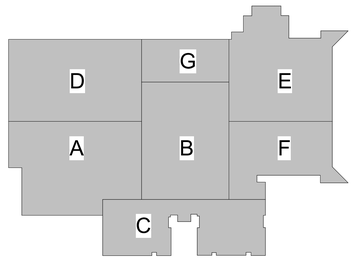


1 MECHANICAL ROOF PLAN - OVERALL
1" = 20'-0"

SHEET NOTES:

GENERAL NOTES:



KEY PLAN

PLAN NORTH N

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

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Facilities Management Services

VA U.S. Department of Veterans Affairs

Drawing Title: MECHANICAL ROOF PLAN - OVERALL

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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Drawing Number: 47-MP106

SHEET 360 of 559

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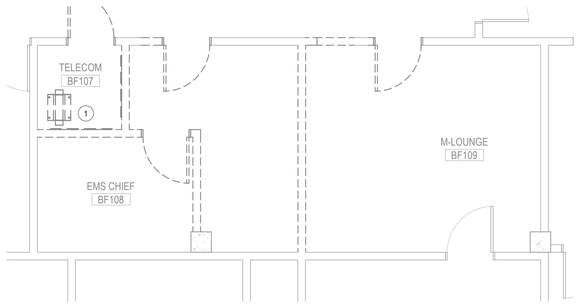
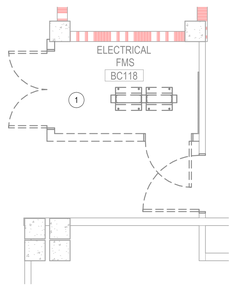
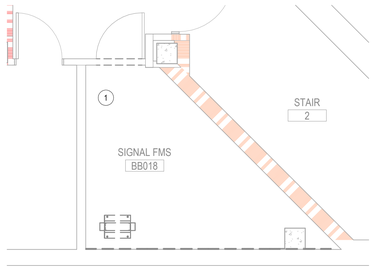


1 BF107 - MECHANICAL DEMOLITION PLAN
1/4" = 1'-0"



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



3 BB018 - MECHANICAL DEMOLITION PLAN
1/4" = 1'-0"

SHEET NOTES:

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

GENERAL NOTES:

PLAN NORTH N

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

FINAL BID DOCUMENTS

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Facilities Management Services

VA U.S. Department of Veterans Affairs

Drawing Title	Phase	Project Title	Project Number
ENLARGED MECHANICAL BASEMENT DEMOLITION	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-MD400
			SHEET 361 of 559

VA FORM 08 - 6231

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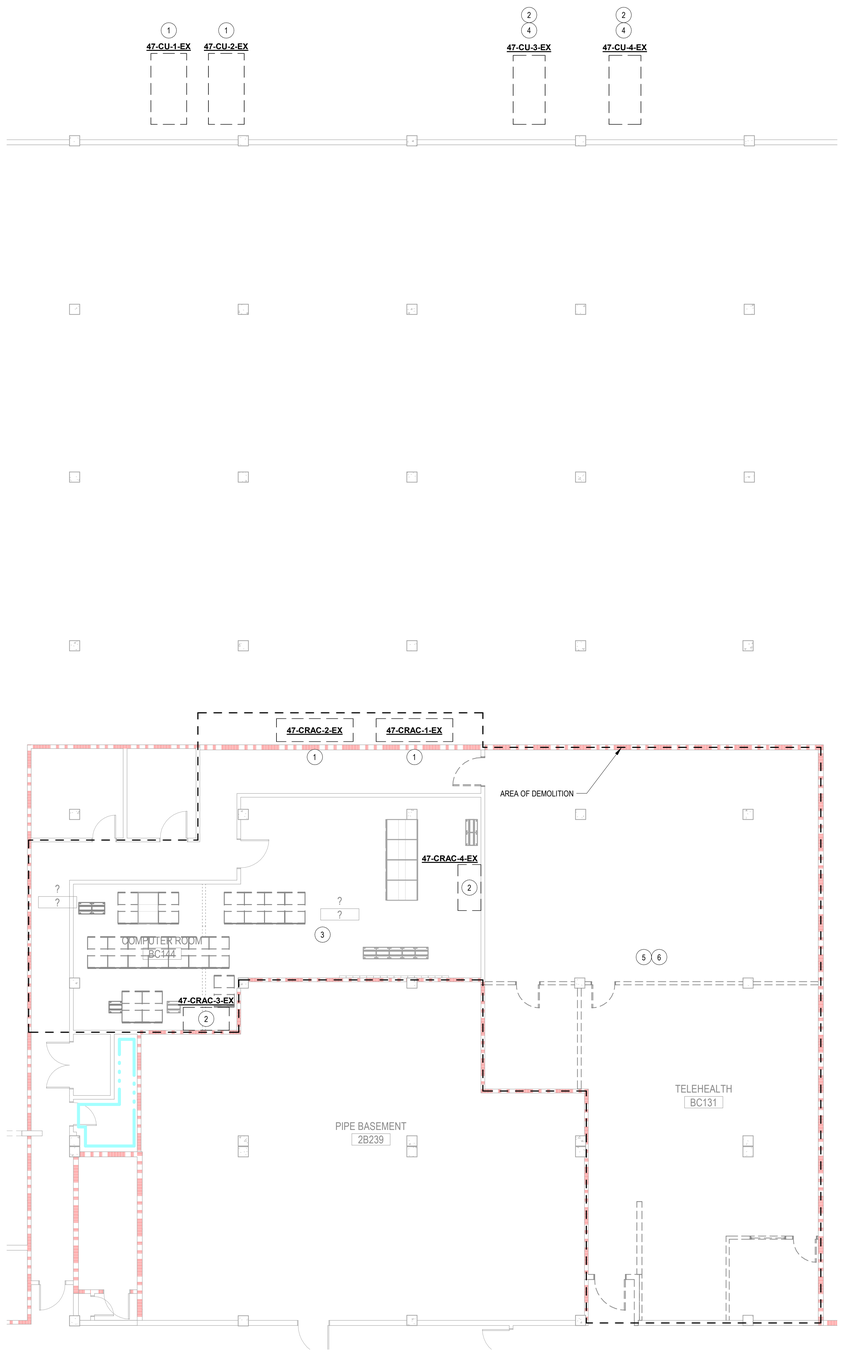
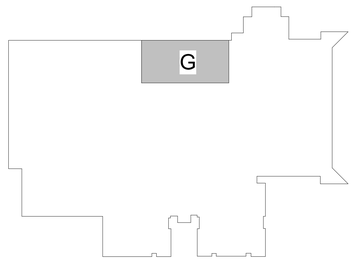


1 DATA CENTER - MECHANICAL DEMOLITION PLAN
1/8" = 1'-0"

SHEET NOTES:

1. EXISTING EQUIPMENT, CONNECTED PIPING, AND DUCTWORK TO BE REMOVED AFTER NEW EQUIPMENT AND ASSOCIATED PIPING AND DUCTWORK HAS BEEN INSTALLED AND IN OPERATION. SEE 1/47-MP401.
2. EXISTING EQUIPMENT, CONNECTED PIPING, AND DUCTWORK TO BE REMOVED.
3. REMOVE EXISTING SUPPLY DUCTWORK BACK TO CORRESPONDING CRAC UNIT. CAP AND SEAL PER SMACNA STANDARDS. REMOVE EXISTING DIFFUSERS AND GRILLES. REMOVE ANY EXISTING TRANSFER DUCTWORK. PATCH ALL OPENINGS LEFT IN WALL FROM DUCT REMOVAL. COORDINATE WITH ARCHITECTURAL DRAWINGS FOR WALL RATINGS. MAINTAIN WALL RATING IF RATED.
4. RETAIN AND REUSE EXISTING MOUNTING PADS IF IN GOOD CONDITION.
5. REMOVE EXISTING SUPPLY AND RETURN DUCTWORK BACK TO MAIN. CAP AND SEAL PER SMACNA STANDARDS. REMOVE EXISTING DIFFUSERS AND GRILLES. REMOVE ANY EXISTING TRANSFER DUCTWORK. PATCH ALL OPENINGS LEFT IN WALL FROM DUCT REMOVAL. COORDINATE WITH ARCHITECTURAL DRAWINGS FOR WALL RATINGS. MAINTAIN WALL RATING IF RATED.
6. NOTE ANY EXISTING MECHANICAL PIPING RUNNING DIRECTLY OVER THE LOCATION OF THE NEW SERVER RACKS, UPS'S, AND OTHER ELECTRICAL EQUIPMENT AND INFORM THE EOR OF ANY OCCURANCE. SEE 1/47-MP401.

GENERAL NOTES:



KEY PLAN

PLAN NORTH N

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

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VA U.S. Department of Veterans Affairs

Drawing Title: ENLARGED MECHANICAL DATA CENTER 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

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Project Number: 637-22-700

Building Number: BLDG 47

Drawing Number: 47-MD401

SHEET 362 of 559

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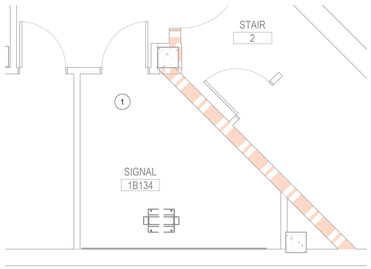
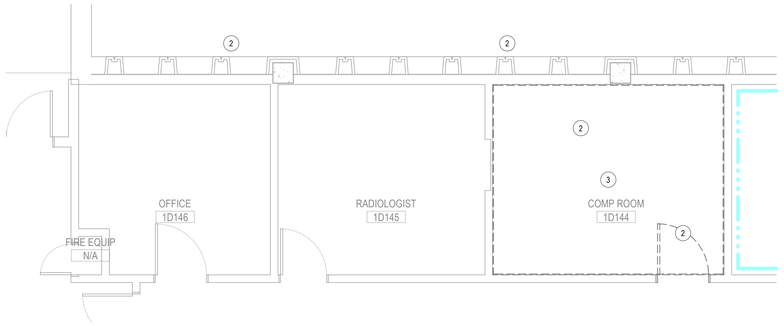
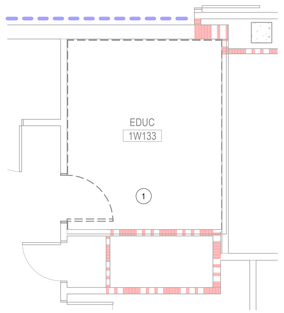


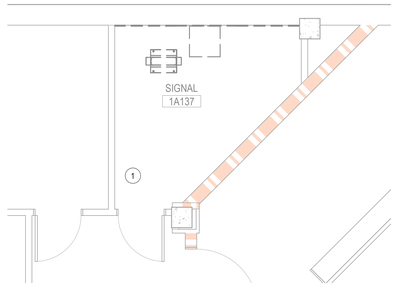
1 1B134 - MECHANICAL DEMOLITION PLAN
1/4" = 1'-0"



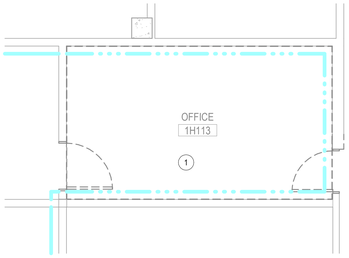
2 1D144 - MECHANICAL DEMOLITION PLAN
1/4" = 1'-0"



3 1W133 - MECHANICAL FIRST FLOOR DEMOLITION PLAN
1/4" = 1'-0"



4 1A137 - MECHANICAL DEMOLITION PLAN
1/4" = 1'-0"



5 1H113 - MECHANICAL DEMOLITION PLAN
1/4" = 1'-0"

SHEET NOTES:

1. REMOVE ANY EXISTING SUPPLY AND RETURN DUCTWORK BACK TO MAIN IN ADJOINING CORRIDOR. CAP AND SEAL PER SMACNA STANDARDS. REMOVE EXISTING DIFFUSERS AND GRILLES. REMOVE ANY EXISTING TRANSFER DUCTWORK. PATCH ALL OPENINGS LEFT IN WALL FROM DUCT REMOVAL. COORDINATE WITH ARCHITECTURAL DRAWINGS FOR WALL RATINGS. MAINTAIN WALL RATING IF RATED.
2. DEMO EXISTING IDU AND CORRESPONDING ODU. ALL EXISTING REFRIGERANT PIPING TO BE REMOVED AND DISPOSED.
3. REMOVE EXISTING THERMOSTATS.

GENERAL NOTES:

PLAN NORTH N

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

FINAL BID DOCUMENTS

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NORTH CAROLINA PROFESSIONAL SEAL 047145 ROBERT BELL
12/18/2025

Facilities Management Services

VA U.S. Department of Veterans Affairs

Drawing Title: ENLARGED MECHANICAL 1ST FLOOR DEMOLITION	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-MD402
		Issue Date: 12.19.2025 / Checked: / Drawn:	SHEET 363 of 559

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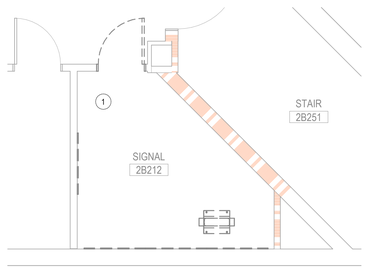
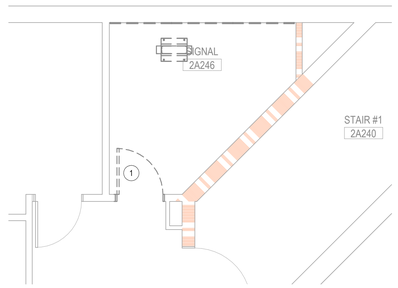
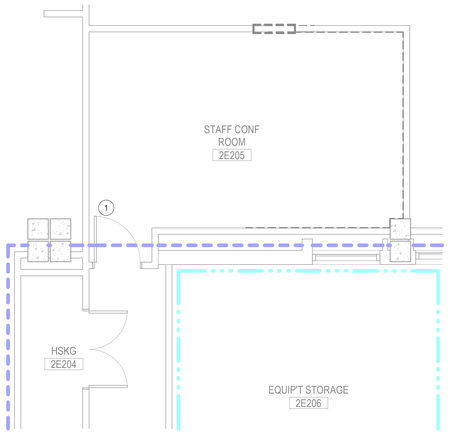


1 2B212 - MECHANICAL DEMOLITION PLAN
1/4" = 1'-0"



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



3 2E205 - MECHANICAL DEMOLITION PLAN
1/4" = 1'-0"

SHEET NOTES:

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

GENERAL NOTES:

PLAN NORTH N

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

FINAL BID DOCUMENTS

Revisions:	Date:

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Facilities Management Services

VA U.S. Department of Veterans Affairs

Drawing Title: ENLARGED MECHANICAL 2ND 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-MD403
		Issue Date: 12.19.2025 / Checked / Drawn	SHEET 364 of 559

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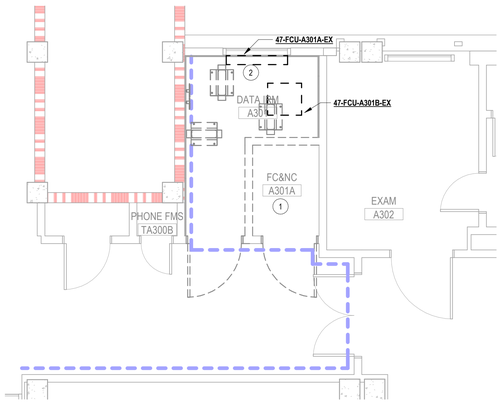
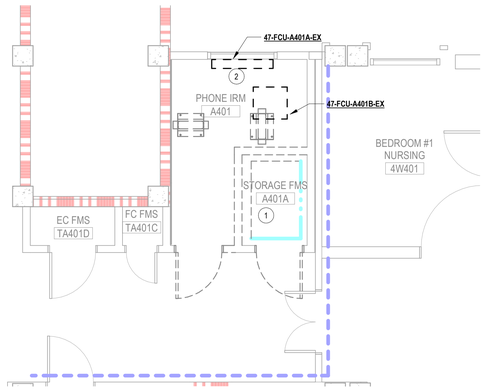
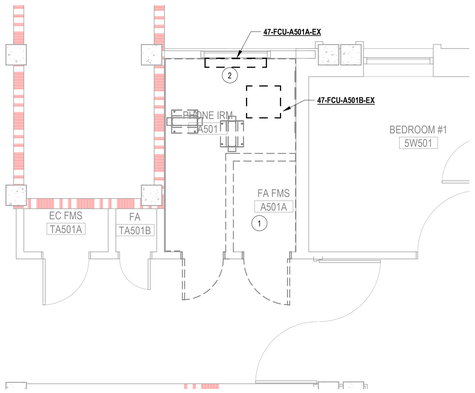


1 A301 - MECHANICAL DEMOLITION PLAN
1/4" = 1'-0"



2 A401 - MECHANICAL DEMOLITION PLAN
1/4" = 1'-0"



3 A501 - MECHANICAL DEMOLITION PLAN
1/4" = 1'-0"

SHEET NOTES:

1. REMOVE ANY EXISTING SUPPLY AND RETURN DUCTWORK BACK TO MAIN IN ADJOINING CORRIDOR. CAP AND SEAL PER SMACNA STANDARDS. REMOVE EXISTING DIFFUSERS AND GRILLES. REMOVE ANY EXISTING TRANSFER DUCTWORK. PATCH ALL OPENINGS LEFT IN WALL FROM DUCT REMOVAL. COORDINATE WITH ARCHITECTURAL DRAWINGS FOR WALL RATINGS. MAINTAIN WALL RATING IF RATED.
2. REMOVE EXISTING WALL-MOUNTED AND SUSPENDED FAN COIL UNITS. REMOVE CONNECTED WATER PIPING BACK TO MAINS IN ADJACENT CORRIDOR. CAP AND SEAL.

GENERAL NOTES:

PLAN NORTH N

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

FINAL BID DOCUMENTS

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Facilities Management Services

VA U.S. Department of Veterans Affairs

Drawing Title	Phase	Project Title	Project Number
ENLARGED MECHANICAL 3RD, 4TH, AND 5TH FLOOR DEMOLITION	FINAL BID DOCUMENTS	EHRM INFRASTRUCTURE UPGRADES	637-22-700
			Building Number: BLDG 47
Approved:		Location: 1100 TUNNEL ROAD ASHEVILLE, NC 28805	Drawing Number: 47-MD404
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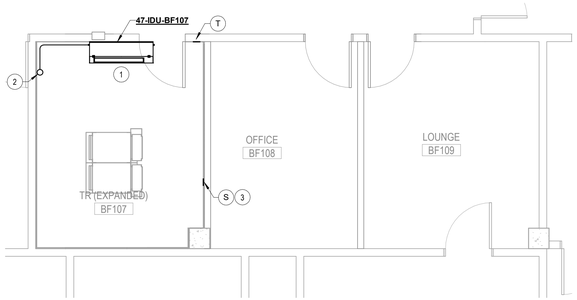
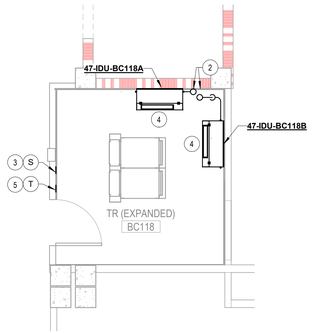
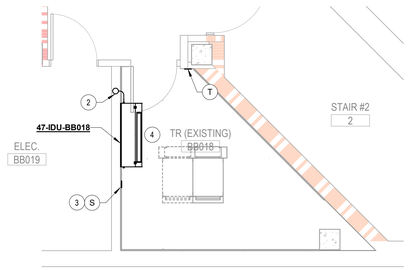


1 BF107 - MECHANICAL PLAN
1/4" = 1'-0"



2 BC118 - MECHANICAL PLAN
1/4" = 1'-0"



3 BB018 - MECHANICAL PLAN
1/4" = 1'-0"

SHEET NOTES:

1. MOUNT UNIT ON WALL ABOVE DOOR. SEE DETAIL 7/00-M501. MAINTAIN MANUFACTURER'S MINIMUM CLEARANCES.
2. RS/RL UP TO CORRESPONDING ODU ON ROOF.
3. LOCATE TEMPTRAK TEMPERATURE/HUMIDITY SENSOR ON WALL WITHIN 6 FT OF TELECOM RACK. TEMPTRAK SENSOR SHALL INTEGRATE WITH VA'S CENTRAL MONITORING SYSTEM TO ALERT WHEN ENVIRONMENTAL CONDITION REQUIREMENTS ARE NOT MET. SEE DESIGN CONDITIONS TABLE ON SHEET 00-M0
4. MOUNT UNIT ON WALL 10'-0" AFF IN LOCATION SHOWN. SEE DETAIL 7/00-M501.
5. TWO (2) INDOOR UNITS ARE PROVIDED DUE TO REFRIGERANT CHARGE LIMITATIONS PER ASHRAE STANDARD 15. PROVIDE ONE (1) CONTROLLER TO CONTROL BOTH INDOOR UNITS SERVING THE TELECOM ROOM. CONTROLLER SHALL BE PROGRAMMED FOR LEAD/LAG OPERATION. THE LEAD UNIT SHALL OPERATE TO MAINTAIN THE ROOM TEMPERATURE SETPOINT. THE LAG UNIT SHALL START AUTOMATICALLY ON THE ROOM TEMPERATURE EXCEEDING THE SETPOINT BY 2°F (ADJ). THE UNITS SHALL SWAP LEAD AND LAG ROLES ON A WEEKLY BASIS TO ENSURE EQUAL AVAILABLE OPERATION TIME.

GENERAL NOTES:

1. ROUTE REFRIGERANT LINES TIGHT TO UNDERSIDE OF FLOOR ABOVE.
2. SIZE REFRIGERANT LINES PER MANUFACTURER'S RECOMMENDATIONS.
3. PROVIDE FIRE-STOPPING WHERE PIPING PENETRATES FIRE-RATED WALLS. RATED WALLS ARE INDICATED ON PLANS.
4. IT RACKS SHOWN FOR REFERENCE ONLY. DASHED LINES INDICATE PLACEHOLDER FOR FUTURE RACK, NOT IN CONTRACT. SEE TELECOM DRAWINGS FOR MORE INFORMATION.

PARTITION LEGEND

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

PLAN NORTH N

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

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12/18/2025

Facilities Management Services

VA U.S. Department of Veterans Affairs

Drawing Title	Phase	Project Title	Project Number
ENLARGED MECHANICAL BASEMENT PLANS	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-MP400
			SHEET 366 of 559

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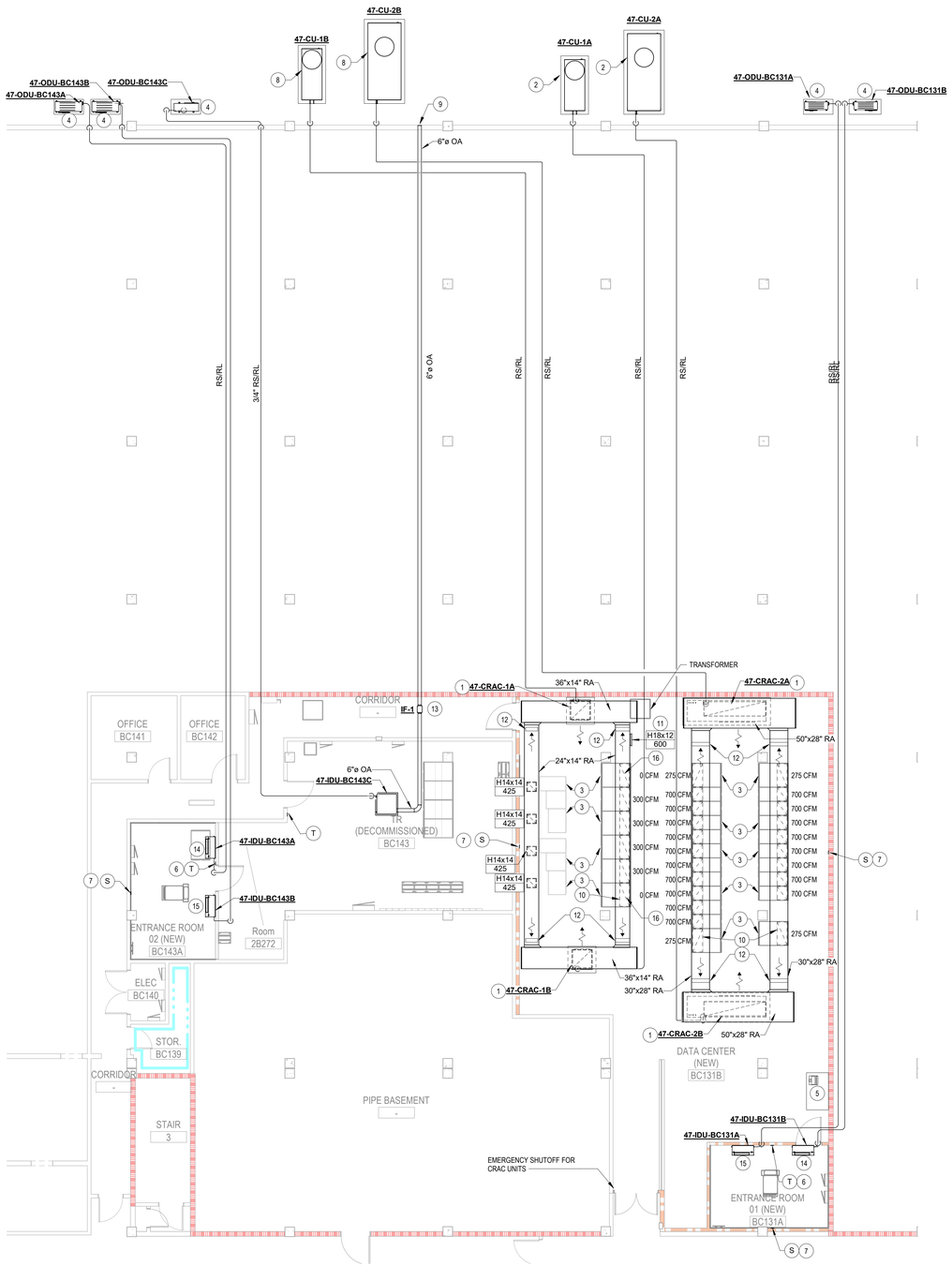


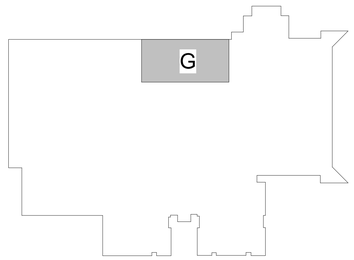
1 DATA CENTER - MECHANICAL PLAN
1/8" = 1'-0"

SHEET NOTES:

1. MOUNT CRAC UNIT DIRECTLY ON 4" CONCRETE EQUIPMENT PAD. SEE DETAIL 1/00-M501. ROUTE REFRIGERANT PIPING TO OUTDOOR UNIT. COORDINATE WITH PLUMBING CONTRACTOR FOR DOMESTIC COLD WATER PIPING TO HUMIDIFIER. (SEE 1/47-PP401). CONNECT CRAC UNIT TO WIRELESS VIGILENT CONTROL MODULE TO BE CONTROLLED BY VIGILENT SYSTEM.
2. LOCATE CONDENSING UNIT WHERE EXISTING UNIT WAS LOCATED. MOUNT ON CONCRETE PAD. SEE DETAIL 7/00-M501. REUSE EXISTING PAD WHERE POSSIBLE.
3. TEMPERATURE AND HUMIDITY ENTERING AND LEAVING SERVER CABINETS MONITORED BY VIGILENT WIRELESS SENSOR MODULES LOCATED AS NOTED ON THE DRAWINGS AND BY THE FOLLOWING CRITERIA FROM THE ISTS STANDARDS: ONE TEMPERATURE SENSOR AND ONE HUMIDITY SENSOR CENTERED HORIZONTALLY, INSIDE THE FRONT DOOR, 4-FT +/-6IN. FROM THE FINISHED FLOOR SURFACE; ONE TEMPERATURE SENSOR CENTER HORIZONTALLY, INSIDE THE REAR DOOR, NO MORE THAN 1-FT FROM THE TOP OF THE CABINET. THIS CONFIGURATION OF SENSORS LOCATED IN CABINETS AT THE ENDS OF EACH CONTIGUOUS ROW AND IN EVERY THIRD CABINET IN THE MIDDLE OF EACH CONTIGUOUS ROW.
4. MOUNT CONDENSING UNIT ON NEW MOUNTING PAD IN MECHANICAL YARD. SEE DETAIL 5/00-M501. EXTEND MOUNTING PAD MINIMUM 6" FROM EACH FACE OF EQUIPMENT. PROVIDE MINIMUM 6" CLEARANCE BETWEEN WALL AND EQUIPMENT PAD.
5. LOCAL ECC TO SERVE DATA CENTER ONLY. SET UP ECC TO SUPPORT SYSTEM CONSOLE AND WIRLESS NETWORK MANAGER FOR THE VIGILENT SYSTEM. VA PREFERS VIGILENT MONITORING SYSTEM AS BASIS OF DESIGN. COORDINATE WITH COR AND OIT FOR EXACT LOCATION OF SYSTEM CONSOLE, WIRELESS NETWORK MANAGER FOR SENSOR MODULES, ARTIFICIAL INTELLIGENCE ENGINE, AND OTHER CONTROL EQUIPMENT. CONTROL SYSTEM TO BE MONITORED BUT NOT CONTROLLED BY THE BUILDING BMS.
6. PROVIDE ONE (1) CONTROLLER TO CONTROL BOTH INDOOR UNITS SERVING ENTRANCE ROOM. CONTROLLER SHALL BE PROGRAMMED FOR PRIMARY/BACKUP OPERATION. THE PRIMARY UNIT SHALL OPERATE TO MAINTAIN THE ROOM TEMPERATURE SETPOINT. THE BACKUP UNIT SHALL START AUTOMATICALLY ON A FAILURE IN THE PRIMARY UNIT. THE UNITS SHALL SWAP PRIMARY AND BACKUP ROLES ON A WEEKLY BASIS TO ENSURE EQUAL AVAILABLE OPERATION TIME.
7. LOCATE TEMPTRAK TEMPERATURE/HUMIDITY SENSOR ON WALL WITHIN 6 FT OF TELECOM EQUIPMENT. TEMPTRAK SENSOR SHALL INTEGRATE WITH VA'S CENTRAL MONITORING SYSTEM TO ALERT WHEN ENVIRONMENTAL CONDITION REQUIREMENTS ARE NOT MET. SEE DESIGN CONDITIONS TABLE ON SHEET 00-M001.
8. MOUNT CONDENSING UNIT ON NEW MOUNTING PAD IN MECHANICAL YARD. SEE DETAIL 5/00-M501. EXTEND MOUNTING PAD MINIMUM 6" FROM FACE OF EQUIPMENT. PROVIDE MINIMUM 36" CLEARANCE BETWEEN WALL AND EQUIPMENT PAD.
9. ROUTE OUTSIDE AIR DUCT UP TO EXISTING LOUVER. PROVIDE BACKDRAFT DAMPER AND BIRD/INSECT SCREEN.
10. INSTALL ZETAFRAME VERTICAL EXHAUST DUCT AND ATTACH TO UNDERSIDE OF OVERHEAD RETURN DUCT. INSTALL GREENHECK MBD-15 BALANCING DAMPER FOR EACH VERTICAL EXAUST DUCT. BALANCE TO TO THE CFMS SHOWN ON THE PLANS. TYPICAL ALL IT CABINETS IN THE SAME ROW. SEE DETAIL 9/00-M-501.
11. RETURN AIR GRILLE TO PULL HEAT FROM TRANSFORMER NEXT TO CRAC UNIT. ANGLE BLADES TOWARD TRANSFORMER.
12. PROVIDE GREENHECK GM-30 BACKDRAFT DAMPER TO PREVENT AIRFLOW THROUGH UNIT WHEN OFFLINE. ORIENT DAMPER IN DIRECTION OF AIRFLOW.
13. IN-LINE FAN TO PULL OUTSIDE AIR TO CEILING CASSETTE. INTERLOCK FAN WITH CEILING CASSETTE TO RUN WHEN CEILING CASSETTE FAN RUNS AND TO SHUT OFF WHEN CEILING CASSETTE FANS SHUTS OFF.
14. MOUNT UNIT ON WALL ABOVE DOOR. SEE DETAIL 7/00-M501. MAINTAIN MANUFACTURER'S MINIMUM CLEARANCES.
15. MOUNT UNIT ON WALL 9'-6" AFF IN LOCATION SHOWN. SEE DETAIL 7/00-M501.
16. PASSIVE MDA CABINET.

GENERAL NOTES:

1. CRAC UNITS TO BE DOWNFLOW UNITS. SUPPLY AIR FROM CRAC UNITS TO BLOW FROM BOTTOM OF UNIT, ACROSS THE FLOOR, AND TO THE FRONT SIDE OF CABINETS. DATA, NETWORK, AND POWER CABINETS TO HAVE CHIMNEY STACKS ON TOP OF CABINETS. CHIMNEY STACKS TO CONNECT DIRECTLY TO UNDERSIDE OF RETURN AIR DUCTWORK. RETURN DUCTWORK TO ROUTE DIRECTLY BACK TO TOP SIDE OF CRAC UNITS. HOT AIR FROM CABINETS TO FLOW THROUGH DUCTWORK AND TO TOP SIDE OF CRAC UNITS.
2. ROUTE REFRIGERANT LINES AND DUCTWORK TIGHT TO UNDERSIDE OF FLOOR ABOVE.
3. EMERGENCY SHUT OFF SWITCHES FOR CRAC UNITS LOCATED AT NEW DATA CENTER EXITS, PER LIFE SAFETY COMMENTS.
4. DATA CENTER CRAC UNITS AND CONDITIONS TO BE CONTROLLED AND MONITORED BY THE VIGILENT CONTROL SYSTEM AS PER VA RECOMMENDATIONS.
5. SIZE REFRIGERANT LINES PER MANUFACTURER'S RECOMMENDATIONS.
6. PROVIDE FIRE-STOPPING WHERE PIPING PENETRATES FIRE-RATED WALLS. RATED WALLS ARE INDICATED ON PLANS.



KEY PLAN

PARTITION LEGEND

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

PLAN NORTH N

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

FINAL BID DOCUMENTS

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12/18/2025

Facilities Management Services

VA U.S. Department of Veterans Affairs

Drawing Title	Phase	Project Title	Project Number
ENLARGED MECHANICAL DATA CENTER PLAN	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
		Issue Date: 12.19.2025 / Checked / Drawn	47-MP401
			SHEET 367 of 559

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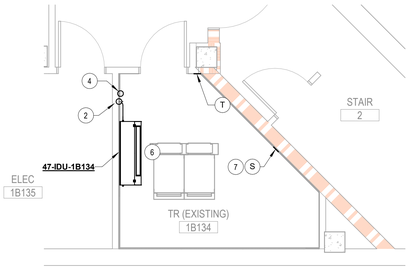
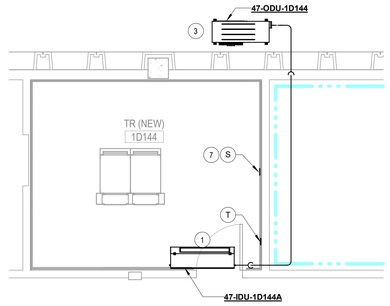
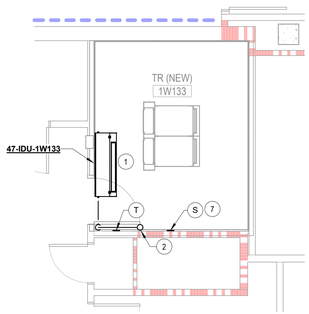


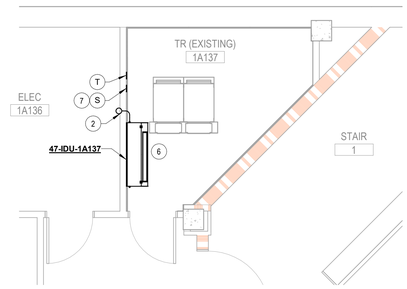
1 1B134 - MECHANICAL PLAN
1/4" = 1'-0"



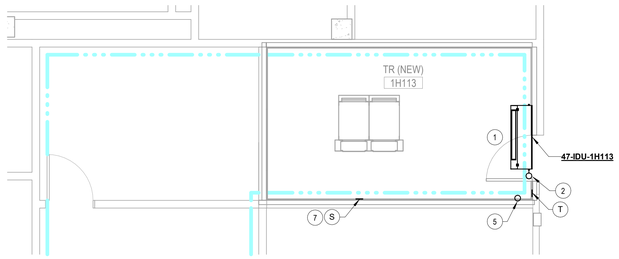
2 1D144 - MECHANICAL PLAN
1/4" = 1'-0"



3 1W133 - MECHANICAL PLAN
1/4" = 1'-0"



4 1A137 - MECHANICAL PLAN
1/4" = 1'-0"



5 1H113 - MECHANICAL PLAN
1/4" = 1'-0"

SHEET NOTES:

1. MOUNT UNIT ON WALL ABOVE DOOR. SEE DETAIL 7/00-M501. MAINTAIN MANUFACTURER'S MINIMUM CLEARANCES.
2. REFRIGERANT LINE SET UP TO CORRESPONDING ODU ON ROOF.
3. MOUNT CONDENSING UNIT ON MOUNTING PAD IN MECHANICAL YARD. SEE DETAIL 5/00-M501. PROVIDE MINIMUM 6" CLEARANCE BETWEEN WALL AND EQUIPMENT PAD. PROVIDE MINIMUM 12" CLEARANCE FROM WALL TO ODU ITSELF. FOR SPACING BETWEEN THE ODU'S PROVIDE THE GREATER OF: 24", AND THE MANUFACTURER'S RECOMMENDED CLEARANCE.
4. REFRIGERANT LINE SET FROM IDU-BB018 BELOW UP TO CORRESPONDING ODU ON ROOF.
5. REFRIGERANT LINE SET FROM IDU-BF107 BELOW UP TO CORRESPONDING ODU ON ROOF.
6. MOUNT UNIT ON WALL 9'-6" AFF IN LOCATION SHOWN. SEE DETAIL 7/00-M501.
7. LOCATE TEMPTRAK TEMPERATURE/HUMIDITY SENSOR ON WALL WITHIN 6 FT OF TELECOM RACK. TEMPTRAK SENSOR SHALL INTEGRATE WITH VA'S CENTRAL MONITORING SYSTEM TO ALERT WHEN ENVIRONMENTAL CONDITION REQUIREMENTS ARE NOT MET. SEE DESIGN CONDITIONS TABLE ON SHEET 00-M001.

GENERAL NOTES:

1. ROUTE REFRIGERANT LINES TIGHT TO UNDERSIDE OF FLOOR ABOVE.
2. SIZE REFRIGERANT LINES PER MANUFACTURER'S RECOMMENDATIONS.
3. PROVIDE FIRE-STOPPING WHERE PIPING PENETRATES FIRE-RATED RATES. RATED WALLS ARE INDICATED ON PLANS.
4. IT RACKS SHOWN FOR REFERENCE ONLY. DASHED LINES INDICATE PLACEHOLDER FOR FUTURE RACK, NOT IN CONTRACT. SEE TELECOM DRAWINGS FOR MORE INFORMATION.

PARTITION LEGEND

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

PLAN NORTH N

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

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VA U.S. Department of Veterans Affairs

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			Building Number: BLDG 47
Approved:		Location: 1100 TUNNEL ROAD ASHEVILLE, NC 28805	Drawing Number: 47-MP402
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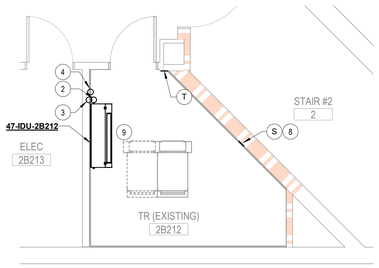
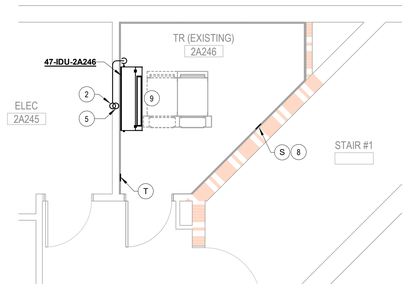
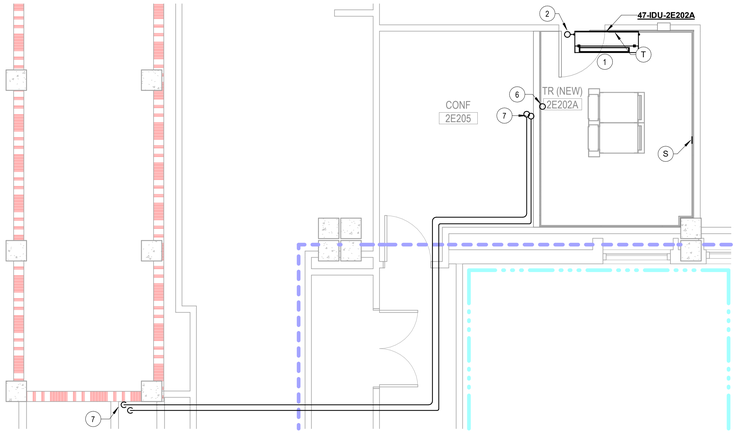


1 2B212 - MECHANICAL PLAN
1/4" = 1'-0"



3 2A246 - MECHANICAL PLAN
1/4" = 1'-0"



2 2E202A - MECHANICAL PLAN
1/4" = 1'-0"

SHEET NOTES:

1. MOUNT UNIT ON WALL ABOVE DOOR. SEE DETAIL 7/00-M501. MAINTAIN MANUFACTURER'S MINIMUM CLEARANCES.
2. REFRIGERANT LINE SET UP TO CORRESPONDING ODU ON ROOF.
3. REFRIGERANT LINE SET FROM IDU-1B134 BELOW UP TO CORRESPONDING ODU ON ROOF.
4. REFRIGERANT LINE SET FROM IDU-BB018 BELOW UP TO CORRESPONDING ODU ON ROOF.
5. REFRIGERANT LINE SET FROM IDU-1A137 BELOW UP TO CORRESPONDING ODU ON ROOF.
6. REFRIGERANT LINE SET FROM IDU-1W133 BELOW UP TO CORRESPONDING ODU ON ROOF.
7. REFRIGERANT LINE SET FROM IDU-BC118 BELOW UP TO CORRESPONDING ODU ON ROOF.
8. LOCATE TEMPTRAK TEMPERATURE/HUMIDITY SENSOR ON WALL WITHIN 6 FT OF TELECOM RACK. TEMPTRAK SENSOR SHALL INTEGRATE WITH VA'S CENTRAL MONITORING SYSTEM TO ALERT WHEN ENVIRONMENTAL CONDITION REQUIREMENTS ARE NOT MET. SEE DESIGN CONDITIONS TABLE ON SHEET 00-M001.
9. MOUNT UNIT ON WALL 9'-6" AFF IN LOCATION SHOWN. SEE DETAIL 7/00-M501.

GENERAL NOTES:

1. ROUTE REFRIGERANT LINES TIGHT TO UNDERSIDE OF FLOOR ABOVE.
2. SIZE REFRIGERANT LINES PER MANUFACTURER'S RECOMMENDATIONS.
3. PROVIDE FIRE-STOPPING WHERE PIPING PENETRATES FIRE-RATED WALLS. RATED WALLS ARE INDICATED ON PLANS.
4. IT RACKS SHOWN FOR REFERENCE ONLY. DASHED LINES INDICATE PLACEHOLDER FOR FUTURE RACK, NOT IN CONTRACT. SEE TELECOM DRAWINGS FOR MORE INFORMATION.

PARTITION LEGEND

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

PLAN NORTH N

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

FINAL BID DOCUMENTS

Revisions:	Date:

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NORTH CAROLINA PROFESSIONAL SEAL 047145 ROBERT BELL
12/18/2025

Facilities Management Services

VA U.S. Department of Veterans Affairs

Drawing Title: ENLARGED MECHANICAL 2ND FLOOR PLANS	Phase: FINAL BID DOCUMENTS	Project Title: EHRM INFRASTRUCTURE UPGRADES	Project Number: 637-22-700
Approved: FOR OFFICIAL USE ONLY		Location: 1100 TUNNEL ROAD ASHEVILLE, NC 28805	Building Number: BLDG 47
		Issue Date: 12.19.2025 / Checked / Drawn	Drawing Number: 47-MP403
			SHEET 369 of 559

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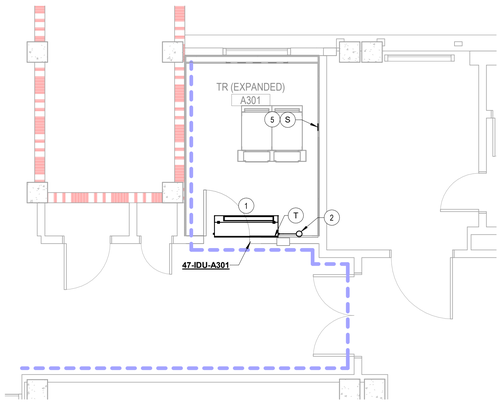
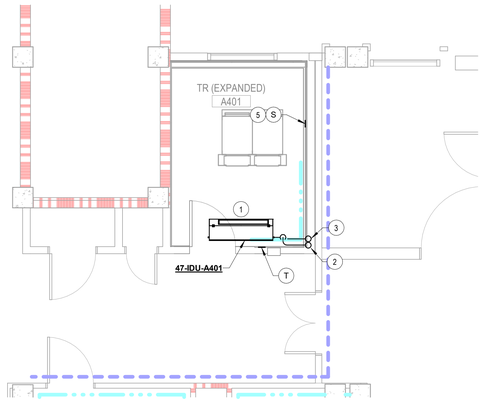
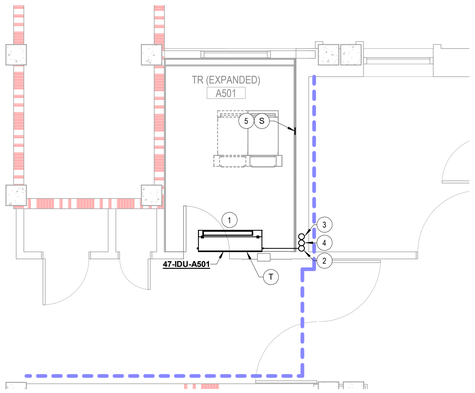
VA FORM 08 - 6231



1 A301 - MECHANICAL PLAN
1/4" = 1'-0"



2 A401 - MECHANICAL PLAN
1/4" = 1'-0"



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

SHEET NOTES:

1. MOUNT UNIT ON WALL ABOVE DOOR. SEE DETAIL 7/00-M501. MAINTAIN MANUFACTURER'S MINIMUM CLEARANCES.
2. REFRIGERANT LINE SET UP TO CORRESPONDING ODU ON ROOF.
3. REFRIGERANT LINE SET FROM IDU-A301 BELOW UP TO CORRESPONDING ODU ON ROOF.
4. REFRIGERANT LINE SET FROM IDU-A401 BELOW UP TO CORRESPONDING ODU ON ROOF.
5. LOCATE TEMPTRAK TEMPERATURE/HUMIDITY SENSOR ON WALL WITHIN 6 FT OF TELECOM RACK. TEMPTRAK SENSOR SHALL INTEGRATE WITH VA'S CENTRAL MONITORING SYSTEM TO ALERT WHEN ENVIRONMENTAL CONDITION REQUIREMENTS ARE NOT MET. SEE DESIGN CONDITIONS TABLE ON SHEET 00-M0

GENERAL NOTES:

1. ROUTE REFRIGERANT LINES TIGHT TO UNDERSIDE OF FLOOR ABOVE.
2. SIZE REFRIGERANT LINES PER MANUFACTURER'S RECOMMENDATIONS.
3. PROVIDE FIRE-STOPPING WHERE PIPING PENETRATES FIRE-RATED WALLS. RATED WALLS ARE INDICATED ON PLANS.
4. IT RACKS SHOWN FOR REFERENCE ONLY. DASHED LINES INDICATE PLACEHOLDER FOR FUTURE RACK, NOT IN CONTRACT. SEE TELECOM DRAWINGS FOR MORE INFORMATION.

PARTITION LEGEND

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

PLAN NORTH N

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

FINAL BID DOCUMENTS

Revisions:	Date:

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NORTH CAROLINA PROFESSIONAL SEAL 047145 ROBERT BELL
12/18/2025

Facilities Management Services

VA U.S. Department of Veterans Affairs

Drawing Title: ENLARGED MECHANICAL 3RD, 4TH, AND 5TH 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-MP404
		Issue Date: 12.19.2025 / Checked: / Drawn:	SHEET 370 of 559

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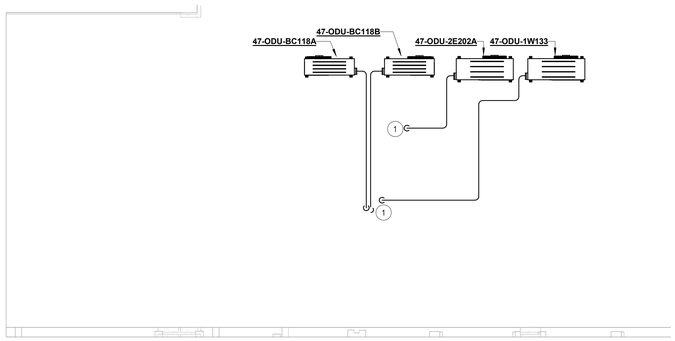
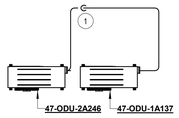
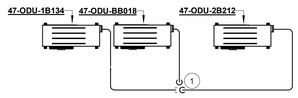


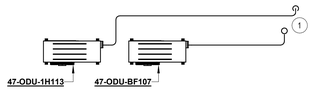
1 BC118, 1W133, 2E202A - MECHANICAL ROOF PLAN
1/4" = 1'-0"



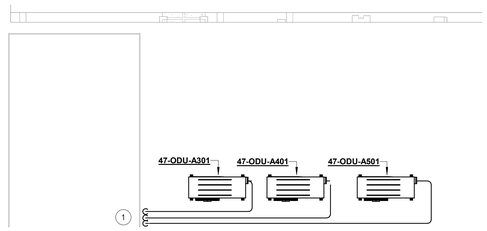
2 1A137, 2A246 - MECHANICAL ROOF PLAN
1/4" = 1'-0"



3 BB018, 1B134, 2B212 - MECHANICAL ROOF PLAN
1/4" = 1'-0"



4 BF107, 1H113 - MECHANICAL ROOF PLAN
1/4" = 1'-0"



5 A301, A401, A501 - MECHANICAL ROOF PLAN
1/4" = 1'-0"

SHEET NOTES:

1. REFRIGERANT LINE SET(S) DOWN TO CORRESPONDING IDU. UTILIZE PIPE PORTAL. SEE DETAIL 3/00-M501.

GENERAL NOTES:

1. MOUNT CONDENSING UNITS ON ROOF CURB OR ROOF RAILS. SEE DETAIL 5/00-M501. LOCATE CONDENSING UNITS AS NEAR AS PRACTICAL TO REFRIGERANT PIPE PORTALS. MAINTAIN MANUFACTURER'S MINIMUM RECOMMENDED CLEARANCES BETWEEN CONDENSING UNITS AND BETWEEN OTHER OBSTRUCTIONS. CONDENSING UNITS SHALL NOT ADVERSELY AFFECT THE PERFORMANCE OR SERVICABILITY OF EXISTING NEARBY EQUIPMENT.
2. SIZE REFRIGERANT LINES PER MANUFACTURER'S RECOMMENDATIONS.

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

FINAL BID DOCUMENTS

Revisions:	Date:

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12/18/2025

Facilities Management Services

VA U.S. Department of Veterans Affairs

Drawing Title	Phase	Project Title	Project Number
ENLARGED MECHANICAL ROOF PLANS	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-MP405

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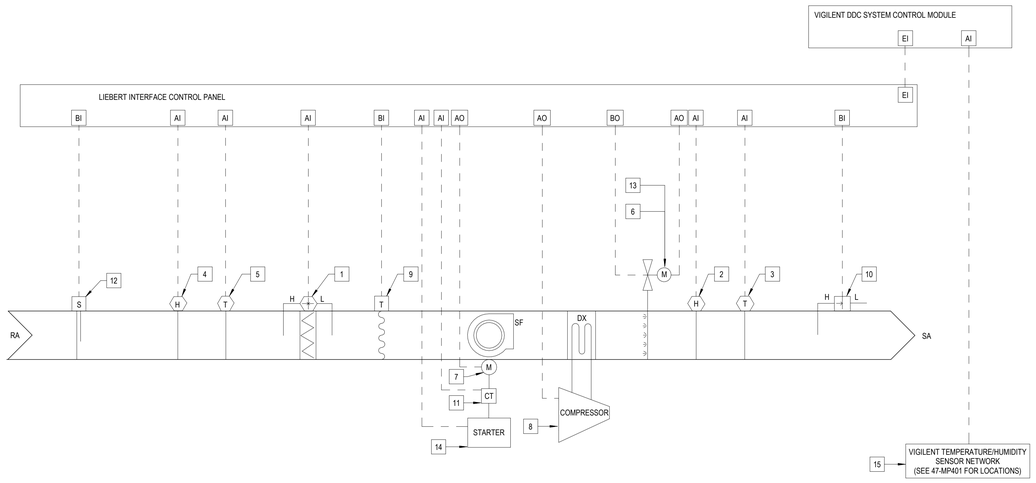

Run Conditions - Continuous (Normal):
The unit shall run continuously at partload capacity in conjunction with the partner unit serving the same row to maintain:
- An average rack face temperature of 75°F (adj.) or below
- A maximum rack face temperature of 80°F or below

Run Conditions - Continuous (Partner Unit Failure):
The unit shall run continuously at full load capacity to compensate for partner unit failure to maintain:
- An average rack face temperature of 75°F (adj.) or below
- A maximum rack face temperature of 80°F or below

Emergency Shutdown:
The unit shall shut down and generate an alarm upon receiving an emergency shutdown signal.

Freeze Protection:
The unit shall shut down and generate an alarm upon receiving a freezestat status.

High Static Shutdown:
The unit shall shut down and generate an alarm upon receiving a high static shutdown signal.

Return Air Smoke Detection:
The unit shall shut down and generate an alarm upon receiving a return air smoke detector status.

Supply Fan:
The supply fan shall run anytime the unit is commanded to run and modulate fan speed based on necessity determined by the Vigilent control system, unless shutdown on safeties. To prevent short cycling, the supply fan shall have a user definable (adj.) minimum runtime.

Alarms shall be provided as follows:
- Supply Fan Failure: Commanded on, but the status is off.
- Supply Fan in Hand: Commanded off, but the status is on.
- Supply Fan Runtime Exceeded: Status runtime exceeds a user definable limit (adj.).
-

Rack Face Temperature Control:
The wireless sensors shall measure the rack face temperatures at specified points and shall use Artificial Interligence to determine what racks need cooling. The controller shall modulate the supply fan speed to maintain temperature setpoints.
The supply fan ECM shall not drop below 30% (adj.).

Compressor:
The control system shall measure the supply air temperature and modulate the compressor and supply fan to maintain its cooling setpoint.

The cooling shall be enabled whenever:
- The average or maximum rack face temperature is above the cooling setpoint.
- AND the supply fan status is on.

Dehumidification:
The wireless humidity sensors shall measure the humidity levels at various specified points and override the cooling sequence to maintain return air humidity at or below 60% rh (adj.).
Dehumidification shall be enabled whenever the supply fan status is on.

Humidifier Control:
The wireless humidity sensors shall measure the humidity levels at various specified points and modulate the humidifier to maintain a setpoint of 30% rh (adj.) or higher. The humidifier shall be enabled whenever the supply fan status is on.

The humidifier shall turn off whenever:
- Average humidity levels rise above 40% (adj.).
- OR on loss of supply fan status.

Alarms shall be provided as follows:
- High Humidity: If the average humidity levels are greater than 60% rh (adj.).
- Low Humidity: If the average humidity levels are less than 30% rh (adj.).

Prefilter Differential Pressure Monitor:
The control system shall monitor the differential pressure across the prefilter.
Alarms shall be provided as follows:
- Prefilter Change Required: Prefilter differential pressure exceeds a user definable limit (adj.).

Return Air Temperature:
The control system shall monitor the return air temperature and use as required for setpoint control or economizer control (if present).

Alarms shall be provided as follows:
- High Return Air Temp: If the return air temperature is greater than 100°F (adj.).
- Low Return Air Temp: If the return air temperature is less than 45°F (adj.).

Supply Air Temperature:
The control system shall monitor the supply air temperature.

Alarms shall be provided as follows:
- High Supply Air Temp: If the supply air temperature is greater than 80°F (adj.).
- Low Supply Air Temp: If the supply air temperature is less than 45°F (adj.).

CRAC POINTS LIST SCHEDULE

POINT ID	BMS POINT DESCRIPTION	BAS TYPE
1	PREFILTER DIFFERENTIAL PRESSURE	AI
2	SUPPLY AIR HUMIDITY	AI
3	SUPPLY AIR TEMP	AI
4	RETURN AIR HUMIDITY	AI
5	RETURN AIR TEMP	AI
6	HUMIDIFIER OUTPUT	AO
7	SUPPLY FAN SPEED	AO
8	COMPRESSOR	AO
9	FREEZESTAT	BI
10	HIGH STATIC SHUTDOWN	BI
11	SUPPLY FAN STATUS	BI
12	RETURN AIR SMOKE DETECTOR	BI
13	HUMIDIFIER ENABLE	BO
14	SUPPLY FAN START/STOP	BO
15	RACK TEMP/HUMIDITY SENSORS	AI

1 CRAC CONTROL POINT SCHEMATIC AND SEQUENCE OF OPERATIONS
NTS

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Revisions:	Date:

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Facilities Management Services

VA U.S. Department of Veterans Affairs

Drawing Title	Phase	Project Title	Project Number
MECHANICAL CONTROLS DETAILS	FINAL BID DOCUMENTS	EHRM INFRASTRUCTURE UPGRADES	637-22-700
			Building Number: BLDG 47
Approved:		Location: 1100 TUNNEL ROAD ASHEVILLE, NC 28805	Drawing Number: 47-MG501
FOR OFFICIAL USE ONLY		Issue Date: 12.19.2025 / Checked / Drawn	SHEET 372 of 559

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MINI-SPLIT INDOOR UNIT SCHEDULE

MARK	CORRESPONDING ODU	LOCATION	MAX SUPPLY AIR FLOW	OUTSIDE AIR FLOW	COOLING		HEATING		ELECTRICAL					BASIS OF DESIGN			REMARKS
					EDB	EWB	LDB	EDB	LDB	VOLTAGE	PHASE	FREQUENCY	FLA	MCA	MAKE	MODEL	WEIGHT	
47-IDU-A301	47-ODU-A301	BLDG 47 A301	1000 CFM	0 CFM	80 °F	62.5 °F	56 °F	-	-	208 V	1	60 Hz	3.00 A	4.0 A	VERTIV	WLM070A	120 lb	4-6,11
47-IDU-A401	47-ODU-A401	BLDG 47 A401	1000 CFM	0 CFM	80 °F	62.5 °F	56 °F	-	-	208 V	1	60 Hz	3.00 A	4.0 A	VERTIV	WLM070A	120 lb	1,4-6,11
47-IDU-A501	47-ODU-A501	BLDG 47 A501	1000 CFM	0 CFM	80 °F	62.5 °F	56 °F	-	-	208 V	1	60 Hz	3.00 A	4.0 A	VERTIV	WLM070A	120 lb	1,4-6,11
47-IDU-BB018	47-ODU-BB018	BLDG 47 BB018	1000 CFM	0 CFM	80 °F	62.5 °F	56 °F	-	-	208 V	1	60 Hz	3.00 A	4.0 A	VERTIV	WLM070A	120 lb	1,4-6,11
47-IDU-BC118A	47-ODU-BC118-A	BLDG 47 BC118	616 CFM	0 CFM	80 °F	62.5 °F	58 °F	-	-	208 V	1	60 Hz	2.00 A	3.0 A	VERTIV	WLM030A	92 lb	1,5-7,11
47-IDU-BC118B	47-ODU-BC118-B	BLDG 47 BC118	616 CFM	0 CFM	80 °F	62.5 °F	58 °F	-	-	208 V	1	60 Hz	2.00 A	3.0 A	VERTIV	WLM030A	92 lb	1,5-7,11
47-IDU-BC131A	47-ODU-BC131A	BLDG 47 BC131	616 CFM	0 CFM	80 °F	62.5 °F	58 °F	-	-	208 V	1	60 Hz	2.00 A	3.0 A	VERTIV	WLM030A	92 lb	1,5-7,11
47-IDU-BC131B	47-ODU-BC131B	BLDG 47 BC131	616 CFM	0 CFM	80 °F	62.5 °F	58 °F	-	-	208 V	1	60 Hz	2.00 A	3.0 A	VERTIV	WLM030A	92 lb	1,5-7,11
47-IDU-BC143A	47-ODU-BC143A	BLDG 47 BC143	616 CFM	0 CFM	80 °F	62.5 °F	58 °F	-	-	208 V	1	60 Hz	2.00 A	3.0 A	VERTIV	WLM030A	92 lb	1,5-7,11
47-IDU-BC143B	47-ODU-BC143B	BLDG 47 BC143	616 CFM	0 CFM	80 °F	62.5 °F	58 °F	-	-	208 V	1	60 Hz	2.00 A	3.0 A	VERTIV	WLM030A	92 lb	1,5-7,11
47-IDU-BC143C	47-ODU-BC143C	BLDG 47 BC143	1253 CFM	55 CFM	80 °F	67.0 °F	55 °F	70 °F	90 °F	208 V	1	60 Hz	0.56 A	1.6 A	DAIKIN	FCA36AAVJU	58 lb	2-4,8-9
47-IDU-BF107	47-ODU-BF107	BLDG 47 BF107	1000 CFM	0 CFM	80 °F	62.5 °F	56 °F	-	-	208 V	1	60 Hz	3.00 A	4.0 A	VERTIV	WLM070A	120 lb	1,4-6,11
47-IDU-1A137	47-ODU-1A137	BLDG 47 1A137	1000 CFM	0 CFM	80 °F	62.5 °F	56 °F	-	-	208 V	1	60 Hz	3.00 A	4.0 A	VERTIV	WLM070A	120 lb	1,4-6,11
47-IDU-1B134	47-ODU-1B134	BLDG 47 1B134	1000 CFM	0 CFM	80 °F	62.5 °F	56 °F	-	-	208 V	1	60 Hz	3.00 A	4.0 A	VERTIV	WLM070A	120 lb	4-6,11
47-IDU-1D144A	47-ODU-1D144	BLDG 47 1D144	1000 CFM	0 CFM	80 °F	62.5 °F	56 °F	-	-	208 V	1	60 Hz	3.00 A	4.0 A	VERTIV	WLM070A	120 lb	1,4-6,11
47-IDU-1H113	47-ODU-1H113	BLDG 47 1H113	1000 CFM	0 CFM	80 °F	62.5 °F	56 °F	-	-	208 V	1	60 Hz	3.00 A	4.0 A	VERTIV	WLM070A	120 lb	1,4-6,11
47-IDU-1W133	47-ODU-1W133	BLDG 47 1W133	1000 CFM	0 CFM	80 °F	62.5 °F	56 °F	-	-	208 V	1	60 Hz	3.00 A	4.0 A	VERTIV	WLM070A	120 lb	1,4-6,11
47-IDU-2A246	47-ODU-2A246	BLDG 47 2A246	1000 CFM	0 CFM	80 °F	62.5 °F	56 °F	-	-	208 V	1	60 Hz	3.00 A	4.0 A	VERTIV	WLM070A	120 lb	4-6,10-11
47-IDU-2B212	47-ODU-2B212	BLDG 47 2B212	1000 CFM	0 CFM	80 °F	62.5 °F	56 °F	-	-	208 V	1	60 Hz	3.00 A	4.0 A	VERTIV	WLM070A	120 lb	1,4-6,11
47-IDU-2E202A	47-ODU-2E202A	BLDG 47 2E202A	1000 CFM	0 CFM	80 °F	62.5 °F	56 °F	-	-	208 V	1	60 Hz	3.00 A	4.0 A	VERTIV	WLM070A	120 lb	1,4-6,11

NOTES:

1. PROVIDE WITH BLUE DIAMOND MAXIBLUE (X87-721) OR EQUAL CONDENSATE PUMP. COORDINATE WITH ELECTRICAL CONTRACTOR FOR POWER. PROVIDE DRIP PAN WITH MOISTURE SENSOR TO GENERATE AN ALARM TO THE BAS IN THE EVENT OF PRIMARY DRAIN OVERFLOW.
2. MOUNT IN LAY-IN CEILING AND SUSPEND FROM STRUCTURE ABOVE.
3. PROVIDE WITH MANUFACTURER'S INTEGRAL AIR FILTER.
4. PROVIDE WITH MANUFACTURER'S THERMOSTAT. UNIT TO RUN ON INTERNAL CONTROL LOGIC.
5. INDOOR UNIT POWERED BY OUTDOOR UNIT. ROUTE CONTROL AND POWER WIRING WITH REFRIGERANT LINESET.
6. PROVIDE ONE (1) TEMPTRAK TEMPERATURE/HUMIDITY SENSOR PER TELECOM ROOM TO INTEGRATE WITH VA'S CENTRAL MONITORING SYSTEM TO ALERT WHEN ENVIRONMENTAL CONDITION REQUIREMENTS ARE NOT MET. SEE DESIGN CONDITIONS TABLE ON SHEET 00-M001.
7. PROVIDE ONE (1) CONTROLLER PER TELECOM ROOM TO CONTROL BOTH INDOOR UNITS.
8. WITH INTEGRAL CONDENSATE LIFT KIT (POWERED BY UNIT). PROVIDE AUXILIARY CONDENSATE PAN WITH FLOAT SWITCH TO SHUT DOWN UNIT AND MOISTURE SENSOR TO GENERATE AN ALARM TO THE BAS IN THE EVENT OF PRIMARY DRAIN PAN OVERFLOW.
9. INDOOR UNIT POWERED FROM ELECTRICAL PANEL. COORDINATE WITH ELECTRICAL CONTRACTOR.
10. PROVIDE WITH BLUE DIAMOND MEGABLUE (X87-835) OR EQUAL CONDENSATE PUMP. COORDINATE WITH ELECTRICAL CONTRACTOR FOR POWER. PROVIDE DRIP PAN WITH MOISTURE SENSOR TO GENERATE AN ALARM TO THE BAS IN THE EVENT OF PRIMARY DRAIN OVERFLOW
11. ECM FAN.

MINI-SPLIT OUTDOOR UNIT SCHEDULE

MARK	CORRESPONDING IDU	LOCATION	REFRIGERANT	COOLING					HEATING		ELECTRICAL					BASIS OF DESIGN			REMARKS
				NOMINAL CAPACITY	TOTAL COOLING	SENSIBLE COOLING	NSCOP	EER2	SEER2	TOTAL HEATING	HSPF2	VOLTAGE	PHASE	FREQUENCY	FLA	MCA	MAKE	MODEL	WEIGHT	
47-ODU-A301	47-IDU-A301	ROOF	R32	7.0 kW	25,468 Btu/h	25,468 Btu/h	4.08	-	-	0 Btu/h	-	208 V	1	60 Hz	26 A	32.0 A	VERTIV	CUD070	118 lb	1-2,4-8
47-ODU-A401	47-IDU-A401	ROOF	R32	7.0 kW	25,468 Btu/h	25,468 Btu/h	4.08	-	-	0 Btu/h	-	208 V	1	60 Hz	26 A	32.0 A	VERTIV	CUD070	118 lb	1-2,4-8
47-ODU-A501	47-IDU-A501	ROOF	R32	7.0 kW	25,468 Btu/h	25,468 Btu/h	4.08	-	-	0 Btu/h	-	208 V	1	60 Hz	26 A	32.0 A	VERTIV	CUD070	118 lb	1-2,4-8
47-ODU-BB018	47-IDU-BB018	ROOF	R32	7.0 kW	25,468 Btu/h	25,468 Btu/h	4.08	-	-	0 Btu/h	-	208 V	1	60 Hz	26 A	32.0 A	VERTIV	CUD070	118 lb	1-2,4-8
47-ODU-BC118A	47-IDU-BC118A	ROOF	R32	7.0 kW	25,468 Btu/h	25,468 Btu/h	4.08	-	-	0 Btu/h	-	2080 V	1	60 Hz	26 A	32.0 A	VERTIV	CUD070	118 lb	1-2,4-8
47-ODU-BC118B	47-IDU-BC118B	ROOF	R32	7.0 kW	25,468 Btu/h	25,468 Btu/h	4.08	-	-	0 Btu/h	-	2080 V	1	60 Hz	26 A	32.0 A	VERTIV	CUD070	118 lb	1-2,4-8
47-ODU-BC131A	47-IDU-BC131A	BLDG 47 OUTSIDE	R32	3.7 kW	14,202 Btu/h	14,202 Btu/h	3.63	-	-	0 Btu/h	-	208 V	1	60 Hz	19 A	24.0 A	VERTIV	CUD030	110 lb	1,3-8
47-ODU-BC131B	47-IDU-BC131B	BLDG 47 OUTSIDE	R32	3.7 kW	14,202 Btu/h	14,202 Btu/h	3.63	-	-	0 Btu/h	-	208 V	1	60 Hz	19 A	24.0 A	VERTIV	CUD030	110 lb	1,3-8
47-ODU-BC143A	47-IDU-BC143A	BLDG 47 OUTSIDE	R32	7.0 kW	25,468 Btu/h	25,468 Btu/h	4.08	-	-	0 Btu/h	-	208 V	1	60 Hz	26 A	32.0 A	VERTIV	CUD070	118 lb	1,3-8
47-ODU-BC143B	47-IDU-BC143B	BLDG 47 OUTSIDE	R32	7.0 kW	25,468 Btu/h	25,468 Btu/h	4.08	-	-	0 Btu/h	-	208 V	1	60 Hz	26 A	32.0 A	VERTIV	CUD070	118 lb	1,3-8
47-ODU-BC143C	47-IDU-BC143C	SITE	R32	10.6 kW	36,000 Btu/h	28,300 Btu/h	-	12.2	20	40,000 Btu/h	10	208 V	1	60 Hz	26 A	34.6 A	DAIKIN	RZA36AAVJU	234 lb	1,3
47-ODU-BF107	47-IDU-BF107	ROOF	R32	7.0 kW	25,468 Btu/h	25,468 Btu/h	4.08	-	-	0 Btu/h	-	208 V	1	60 Hz	26 A	32.0 A	VERTIV	CUD070	118 lb	1-2,4-8
47-ODU-1A137	47-IDU-1A37	ROOF	R32	7.0 kW	25,468 Btu/h	25,468 Btu/h	4.08	-	-	0 Btu/h	-	208 V	1	60 Hz	26 A	32.0 A	VERTIV	CUD070	118 lb	1-2,4-8
47-ODU-1B134	47-1DU-1B134	ROOF	R32	7.0 kW	25,468 Btu/h	25,468 Btu/h	4.08	-	-	0 Btu/h	-	208 V	1	60 Hz	26 A	32.0 A	VERTIV	CUD070	118 lb	1-2,4-8
47-ODU-1D144	47-IDU-1D144A	SITE - PLAN NORTH	R32	7.0 kW	25,468 Btu/h	25,468 Btu/h	4.08	-	-	0 Btu/h	-	208 V	1	60 Hz	26 A	32.0 A	VERTIV	CUD070	118 lb	1,3-8
47-ODU-1H113	47-IDU-1H113	ROOF	R32	7.0 kW	25,468 Btu/h	25,468 Btu/h	4.08	-	-	0 Btu/h	-	208 V	1	60 Hz	26 A	32.0 A	VERTIV	CUD070	118 lb	1-2,4-8
47-ODU-1W133	47-IDU-1W133	ROOF	R32	7.0 kW	25,468 Btu/h	25,468 Btu/h	4.08	-	-	0 Btu/h	-	208 V	1	60 Hz	26 A	32.0 A	VERTIV	CUD070	118 lb	1-2,4-8
47-ODU-2A246	47-IDU-2A246	ROOF	R32	7.0 kW	25,468 Btu/h	25,468 Btu/h	4.08	-	-	0 Btu/h	-	208 V	1	60 Hz	26 A	32.0 A	VERTIV	CUD070	118 lb	1-2,4-8
47-ODU-2B212	47-IDU-2B212	ROOF	R32	7.0 kW	25,468 Btu/h	25,468 Btu/h	4.08	-	-	0 Btu/h	-	208 V	1	60 Hz	26 A	32.0 A	VERTIV	CUD070	118 lb	1-2,4-8
47-ODU-2E202A	47-IDU-2E202A	ROOF	R32	7.0 kW	25,468 Btu/h	25,468 Btu/h	4.08	-	-	0 Btu/h	-	208 V	1	60 Hz	26 A	32.0 A	VERTIV	CUD070	118 lb	1-2,4-8

NOTES:

1. PROVIDE WITH MANUFACTURER'S WIND BAFFLES.
2. PROVIDE WITH MANUFACTURER'S ROOF CURB.
3. PROVIDE WITH MANUFACTURER'S MOUNTING PAD IF EXISTING MOUNTING PAD CANNOT BE REUSED.
4. INDOOR UNIT POWERED BY OUTDOOR UNIT, ROUTE CONTROL AND POWER WIRING WITH REFRIGERANT LINESET.
5. SHALL BE CAPABLE OF OPERATING DOWN TO 0°F OUTDOOR AMBIENT TEMPERATURE.
6. VARIABLE SPEED COMPRESSOR.
7. REFRIGERNAT LINE LENGTH UP TO 197 FT.
8. ECM FAN.

DC CONDENSING UNIT SCHEDULE

MARK	CORRESPONDING CRAC	LOCATION	ELECTRICAL						BASIS OF DESIGN			REMARKS
			VOLTAGE	PHASE	FREQUENCY	FLA	MCA	MOCP	MAKE	MODEL	WEIGHT	
47-CU-1A	47-CRAC-1A	BLDG 47 OUTSIDE	460 V	3	60 Hz	1.40 A	1.80 A	15 A	LIEBERT	MCM040E1	468 lb	1
47-CU-1B	47-CRAC-1B	BLDG 47 OUTSIDE	460 V	3	60 Hz	1.40 A	1.80 A	15 A	LIEBERT	MCM040E1	468 lb	1
47-CU-2A	47-CRAC-2A	BLDG 47 OUTSIDE	460 V	3	60 Hz	5.60 A	6.30 A	15 A	LIEBERT	MCL110E8	631 lb	1
47-CU-2B	47-CRAC-2B	BLDG 47 OUTSIDE	460 V	3	60 Hz	5.60 A	6.30 A	15 A	LIEBERT	MCL110E8	631 lb	1

NOTES:

1. MOUNT ON EXISTING PADS FROM REMOVED CRAC CONDENSING UNITS.

DC CRAC UNIT SCHEDULE

MARK	CORRESPONDING CU	LOCATION	FAN			COOLING						ELECTRICAL						BASIS OF DESIGN			REMARKS
			AIR FLOW	ESP	HP	NOMINAL TONS	TOTAL COOLING	SENSIBLE COOLING	EDB	EWB	LDB	VOLTAGE	PHASE	FREQUENCY	FLA	MCA	MOCP	MAKE	MODEL	WEIGHT	
47-CRAC-1A	47-CU-1A	DATA CENTER	3500 CFM	0.2 in-wg	4.2 hp	7.1 ton	85,400 Btu/h	85,400 Btu/h	85 °F	64 °F	55 °F	460 V	3	60 Hz	32.5 A	39.6 A	50 A	LIEBERT	PX023	670 lb	ALL
47-CRAC-1B	47-CU-1B	DATA CENTER	3500 CFM	0.2 in-wg	4.2 hp	7.1 ton	85,400 Btu/h	85,400 Btu/h	85 °F	64 °F	55 °F	460 V	3	60 Hz	32.5 A	39.6 A	50 A	LIEBERT	PX023	670 lb	ALL
47-CRAC-2A	47-CU-2A	DATA CENTER	13700 CFM	0.2 in-wg	3.6 hp	30.0 ton	360,000 Btu/h	344,000 Btu/h	85 °F	64 °F	55 °F	460 V	3	60 Hz	83.7 A	97.4 A	110 A	LIEBERT	DS105	2780 lb	ALL
47-CRAC-2B	47-CU-2B	DATA CENTER	13700 CFM	0.2 in-wg	3.6 hp	30.0 ton	360,000 Btu/h	344,000 Btu/h	85 °F	64 °F	55 °F	460 V	3	60 Hz	83.7 A	97.4 A	110 A	LIEBERT	DS105	2780 lb	ALL

NOTES:

1. PROVIDE WITH MANUFACTURER'S INTEGRAL CONDENSATE PUMP.
2. PROVIDE WITH ETHERNET CONNECTION TO TIE INTO VIGILENT SYSTEM.
3. MOUNT ON HOUSEKEEPING PAD. ENSURE HOUSEKEEPING PAD IS 6" LONGER THAN THE UNIT ON ALL SIDES.
4. PROVIDE WITH MANUFACTURER'S INTEGRAL INFRARED HUMIDIFIER WITH BUILT-IN AIR GAP TO PREVENT BACKFLOW OF SUPPLY WATER. IF ANOTHER HUMIDIFIER TYPE IS PROCURED, COORDINATE WITH PLUMBING CONTRACTOR TO PROVIDE AN RPZ BACKFLOW PREVENTOR ON THE DOMESTIC COLD WATER LINE TO PREVENT BACKFLOW OF SUPPLY WATER.
5. PROVIDE WITH CONDENSATE OVERFLOW SWITCH.
6. PROVIDE ELECTRICAL AND MAINTENANCE CLEARANCES PER MANUFACTURER'S I/O MANUAL.
7. PROVIDE AS DOWNFLOW OPTION FOR SOLID FLOOR TO BLOW OUT FRONT OF UNIT TOWARDS SERVER RACKS.
8. PROVIDE WITH ECM FAN MOTORS AND CONTROLLABLE COMPRESSORS TO BETTER CONTROL OUTPUT OF UNIT. ENSURE MINIMUM 4:1 TURNDOWN FOR COMPRESSORS.
9. PROVIDE WITH EITHER FRONT SUPPLY AIR OPENING OR FLOOR STAND & AIR SCOOP TO ENSURE SUPPLY AIR BLOWS OUT FRONT OF UNIT.
10. PROVIDE UNITS WITH MANUFACTURER'S REHEAT OPTION TO AID WITH THE DEHUMIDIFICATION PROCESS.
11. PROVIDE WITH SMOKE DETECTOR.

DIFFUSERS, REGISTERS, & GRILLES SCHEDULE

MARK	SERVICE	PRESSURE DROP	CONSTRUCTION						MANUFACTURER	MODEL	NOTES
			MOUNTING	FACE TYPE	NECK SIZE	FACE SIZE	MATERIAL	COLOR			
H14x14	RETURN	0.02 in-wg	DUCT	LOUVERED	14"x14"	16"x16"	ALUMINUM	WHITE	PRICE	610Z	1
H18x12	RETURN	0.05 in-wg	DUCT	LOUVERED	18"x12"	20"x14"	ALUMINUM	WHITE	PRICE	630-D	1

NOTES:

1. PROVIDE WITH MANUFACTURER'S FACE ACCESSED OPPOSED BLADE BALANCING DAMPER.

FAN SCHEDULE

MARK	LOCATION	SERVICE	AIR FLOW (CFM)	TSP (IN-WG)	MOTOR POWER (HP)	RPM	VFD	ECM	TYPE	VOLTAGE (V)	PHASE	BASIS OF DESIGN			NOTES
												MANUFACTURER	WEIGHT (LB)	MODEL	
IF-1	CORRIDOR	OUTSIDE AIR	55	0.15	0.03	950	No	Yes	DIRECT DRIVE INLINE	120	1	GREENHECK	26	SQ-70-VG	

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12/18/2025

Facilities Management Services

VA U.S. Department of Veterans Affairs

Drawing Title: MECHANICAL SCHEDULES

Approved:

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Phase: FINAL BID DOCUMENTS

Project Title: EHRM INFRASTRUCTURE UPGRADES

Location: 1100 TUNNEL ROAD ASHEVILLE, NC 28805

Issue Date: 12.19.2025

Checked

Drawn

Project Number: 637-22-700

Building Number: BLDG 47

Drawing Number: 47-MG601

SHEET 373 of 559

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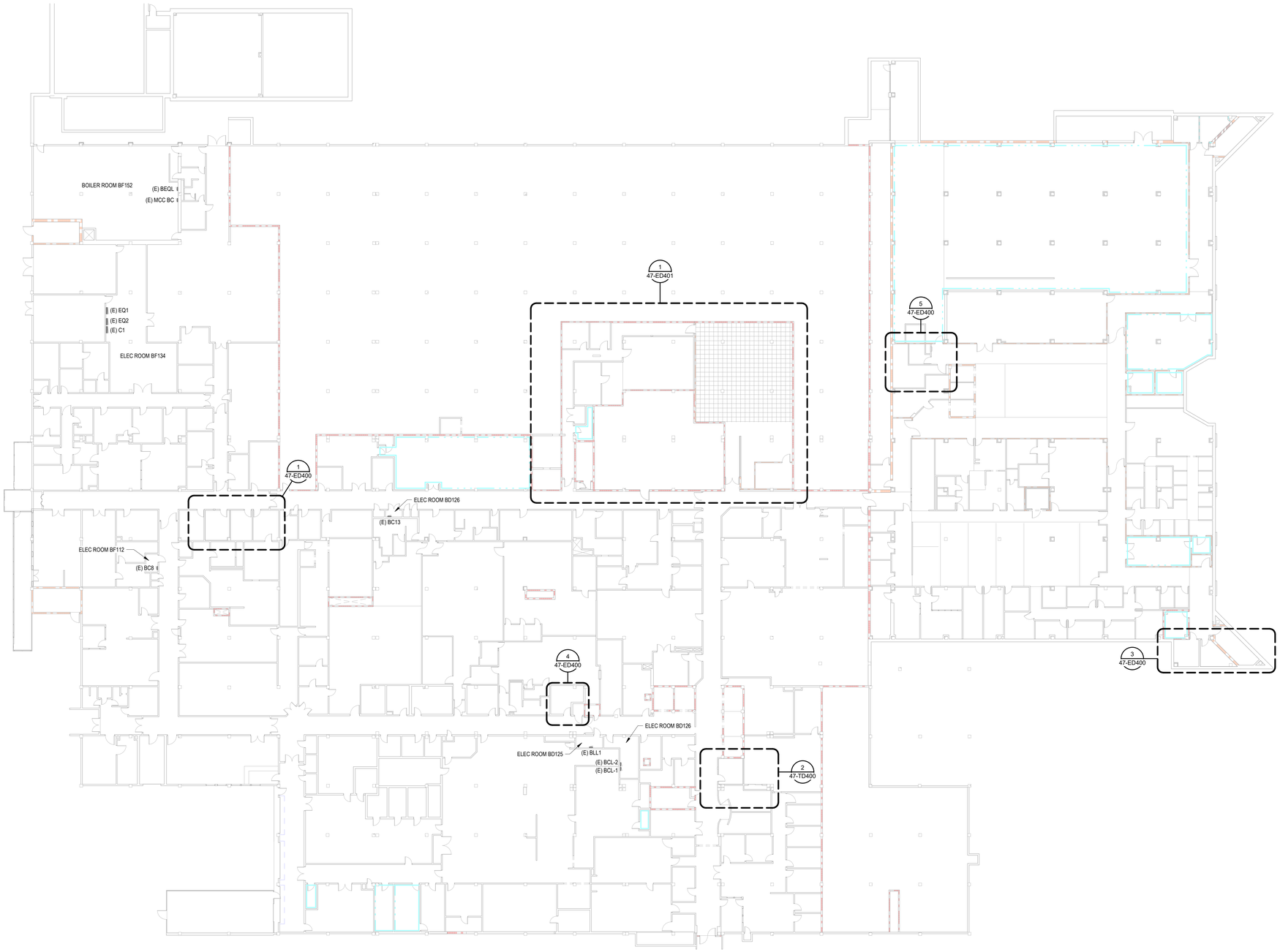
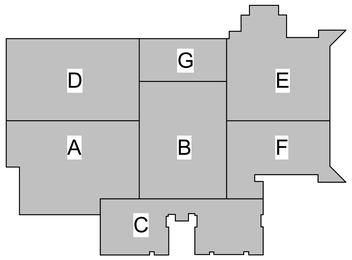


1 ELECTRICAL BASEMENT DEMOLITION - OVERALL
1" = 20'-0"

SHEET NOTES:

GENERAL NOTES:

1. REFER TO 00-E001 FOR GENERAL NOTES, DEMOLITION NOTES, AND LEGENDS.
2. REFER TO ENLARGED DEMO PLANS FOR DEMOLITION SCOPE.
3. ELECTRICAL PANEL LOCATIONS SHOWN FOR REFERENCE ONLY. ALL PANELS ARE EXISTING TO REMAIN, UNLESS OTHERWISE NOTED.



KEY PLAN

PLAN NORTH N

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

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Facilities Management Services

VA U.S. Department of Veterans Affairs

Drawing Title: ELECTRICAL BASEMENT DEMOLITION - OVERALL

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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-ED100

SHEET 374 of 559

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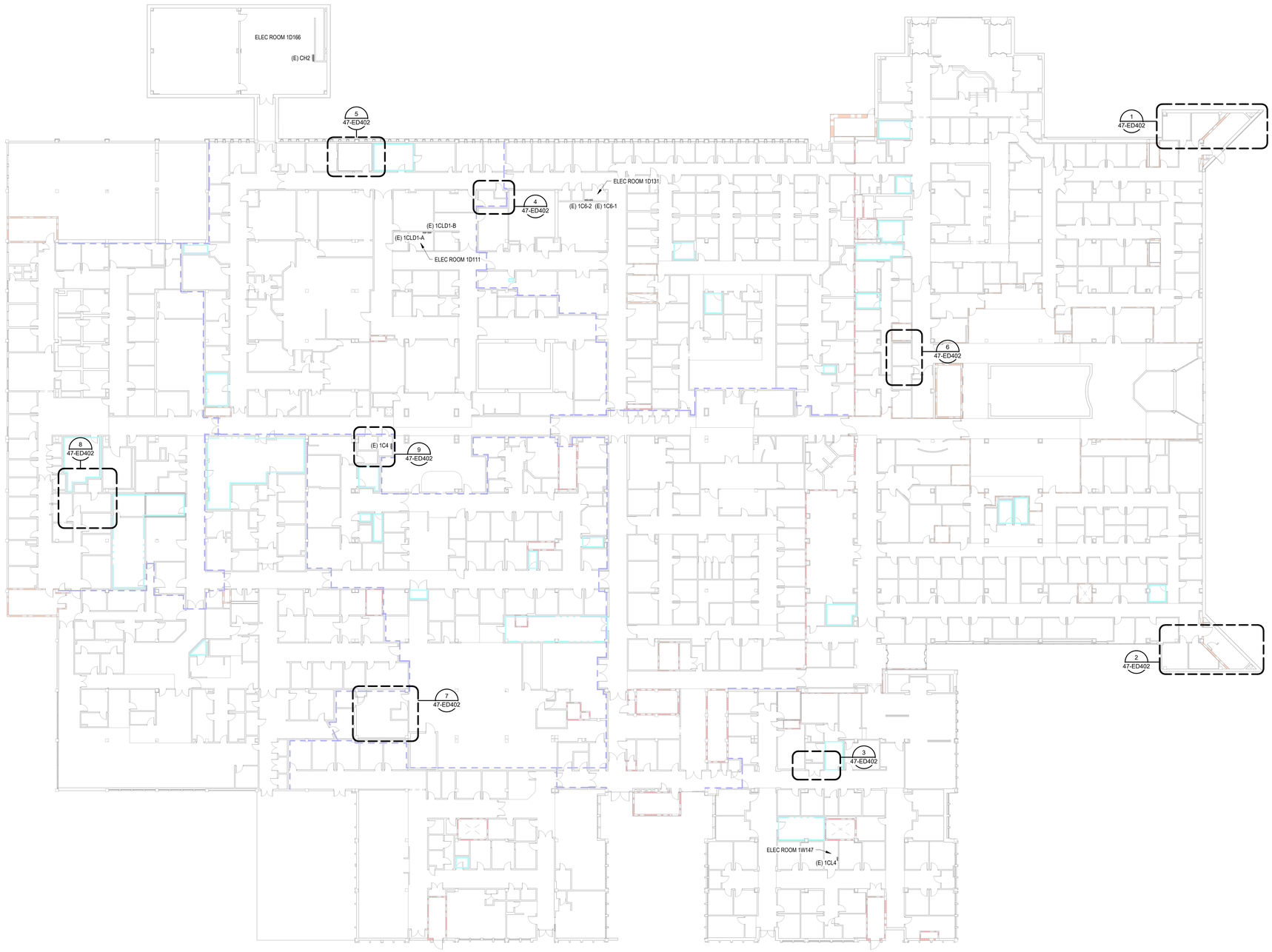
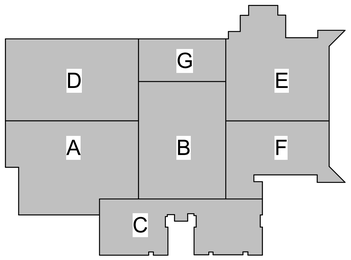


1 ELECTRICAL 1ST FLOOR DEMOLITION - OVERALL
1" = 20'-0"

SHEET NOTES:

GENERAL NOTES:

1. REFER TO 00-E001 FOR GENERAL NOTES, DEMOLITION NOTES, AND LEGENDS.
2. REFER TO 47-ED403 FOR DEMOLITION SCOPE.
3. ELECTRICAL PANEL LOCATIONS SHOWN FOR REFERENCE ONLY. ALL PANELS ARE EXISTING TO REMAIN, UNLESS OTHERWISE NOTED.



KEY PLAN

PLAN NORTH N

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

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Drawing Title: ELECTRICAL 1ST FLOOR DEMOLITION - OVERALL

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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-ED101

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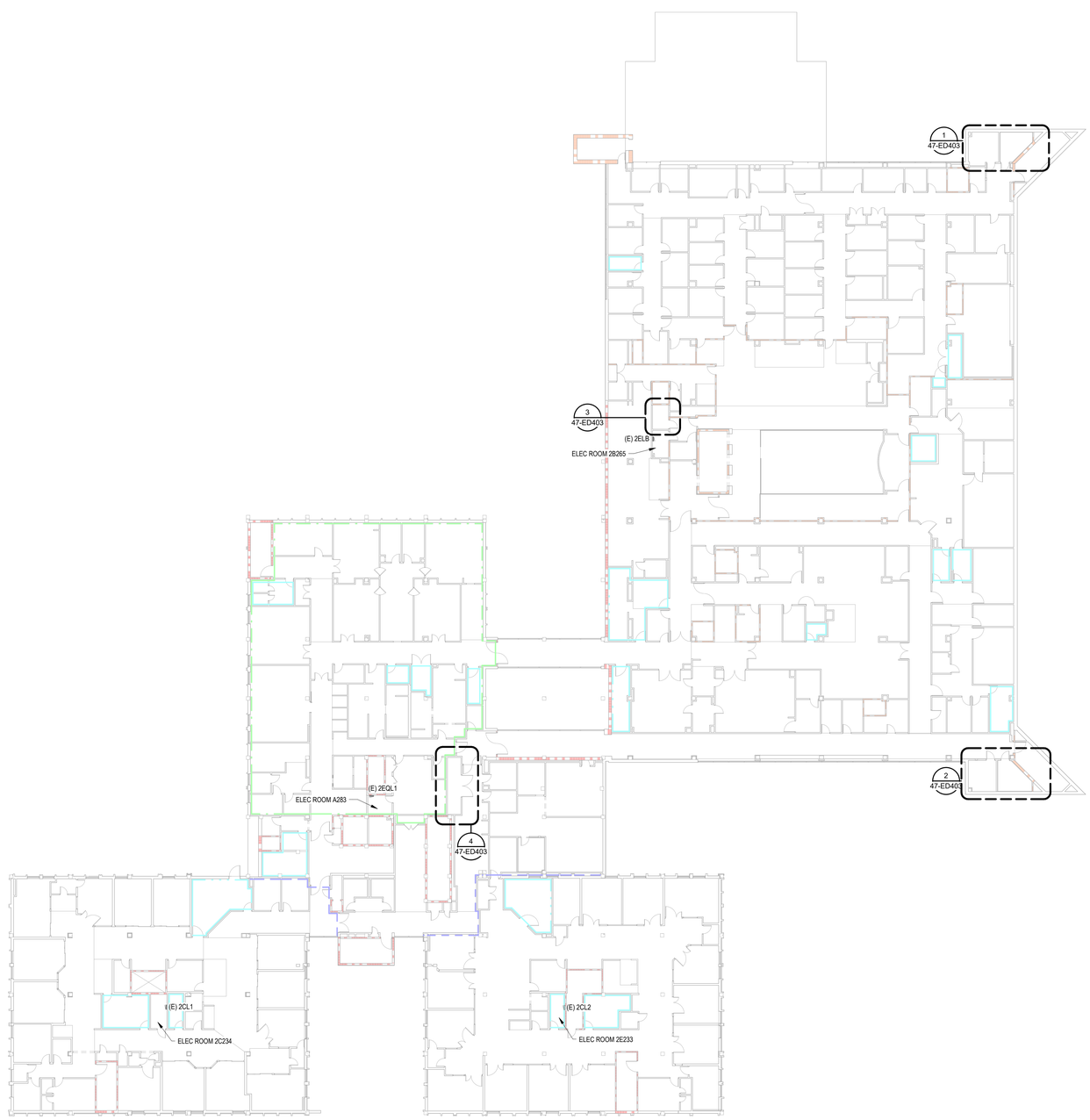
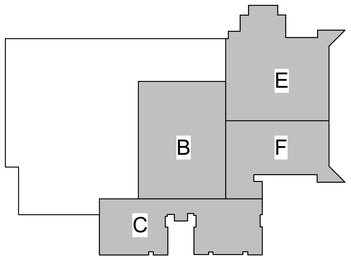


1 ELECTRICAL 2ND FLOOR DEMOLITION - OVERALL
1" = 20'-0"

SHEET NOTES:

GENERAL NOTES:

1. REFER TO 00-E001 FOR GENERAL NOTES, DEMOLITION NOTES, AND LEGENDS.
2. REFER TO 47-ED404 FOR DEMOLITION SCOPE.
3. ELECTRICAL PANEL LOCATIONS SHOWN FOR REFERENCE ONLY. ALL PANELS ARE EXISTING TO REMAIN, UNLESS OTHERWISE NOTED.



KEY PLAN

PLAN NORTH N

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

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Drawing Title	Phase	Project Title	Project Number
ELECTRICAL 2ND FLOOR DEMOLITION - OVERALL	FINAL BID DOCUMENTS	EHRM INFRASTRUCTURE UPGRADES	637-22-700
			Building Number: BLDG 47
Approved:		Location: 1100 TUNNEL ROAD ASHEVILLE, NC 28805	Drawing Number: 47-ED102
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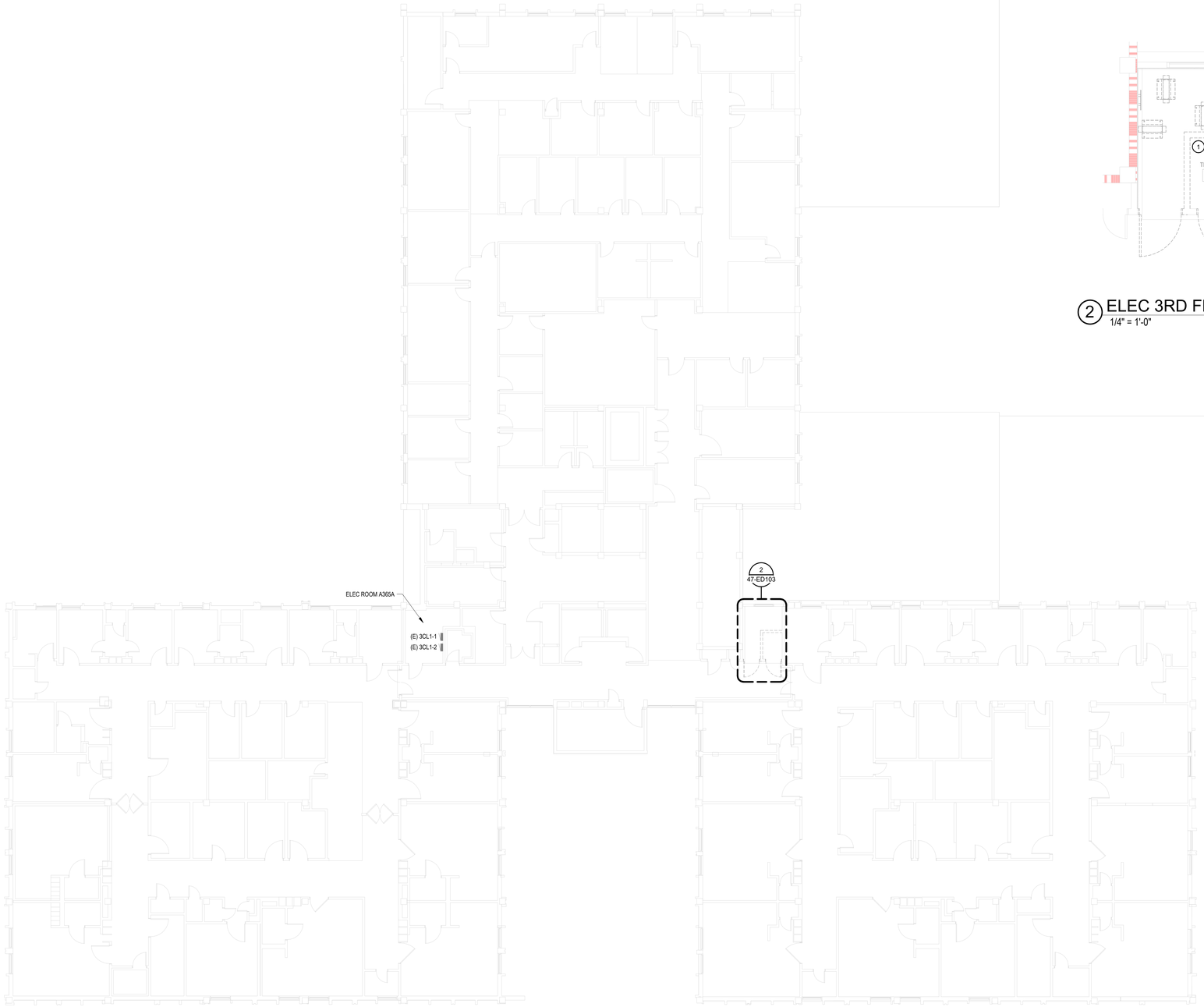
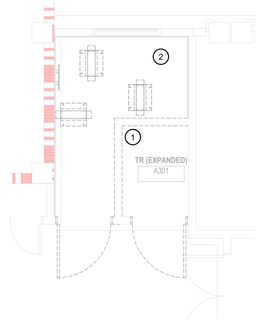


1 ELECTRICAL 3RD FLOOR DEMOLITION
3/32" = 1'-0"



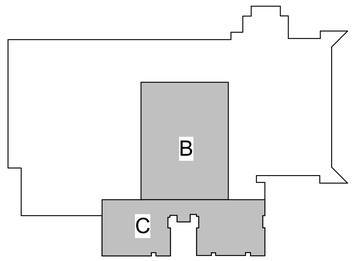
2 ELEC 3RD FLOOR DEMO - A301
1/4" = 1'-0"

SHEET NOTES:

1. EXISTING TR TO BE EXPANDED. REMOVE ALL EXISTING ELECTRICAL EQUIPMENT ON WALLS INDICATED TO BE DEMOLISHED, INCLUDING BUT NOT LIMITED TO, RECEPTACLES, HARDWIRE EQUIPMENT CONNECTIONS, CONDUIT AND OTHER HARDWARE. EXISTING LIGHTING AND CONTROLS TO BE DEMOLISHED. RETAIN EXISTING LIGHTING CIRCUIT FEEDING THE ROOM.
2. REMOVE ALL ELECTRICAL HARDWARE ASSOCIATED WITH TELECOMMUNICATION RACK(S) BEING REMOVED, INCLUDING UPS AND PDU EQUIPMENT.

GENERAL NOTES:

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



KEY PLAN

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

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

PLAN NORTH N

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Facilities Management Services

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Drawing Title: ELECTRICAL 3RD FLOOR DEMOLITION

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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-ED103

SHEET 377 of 559

VA FORM 08 - 6231

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

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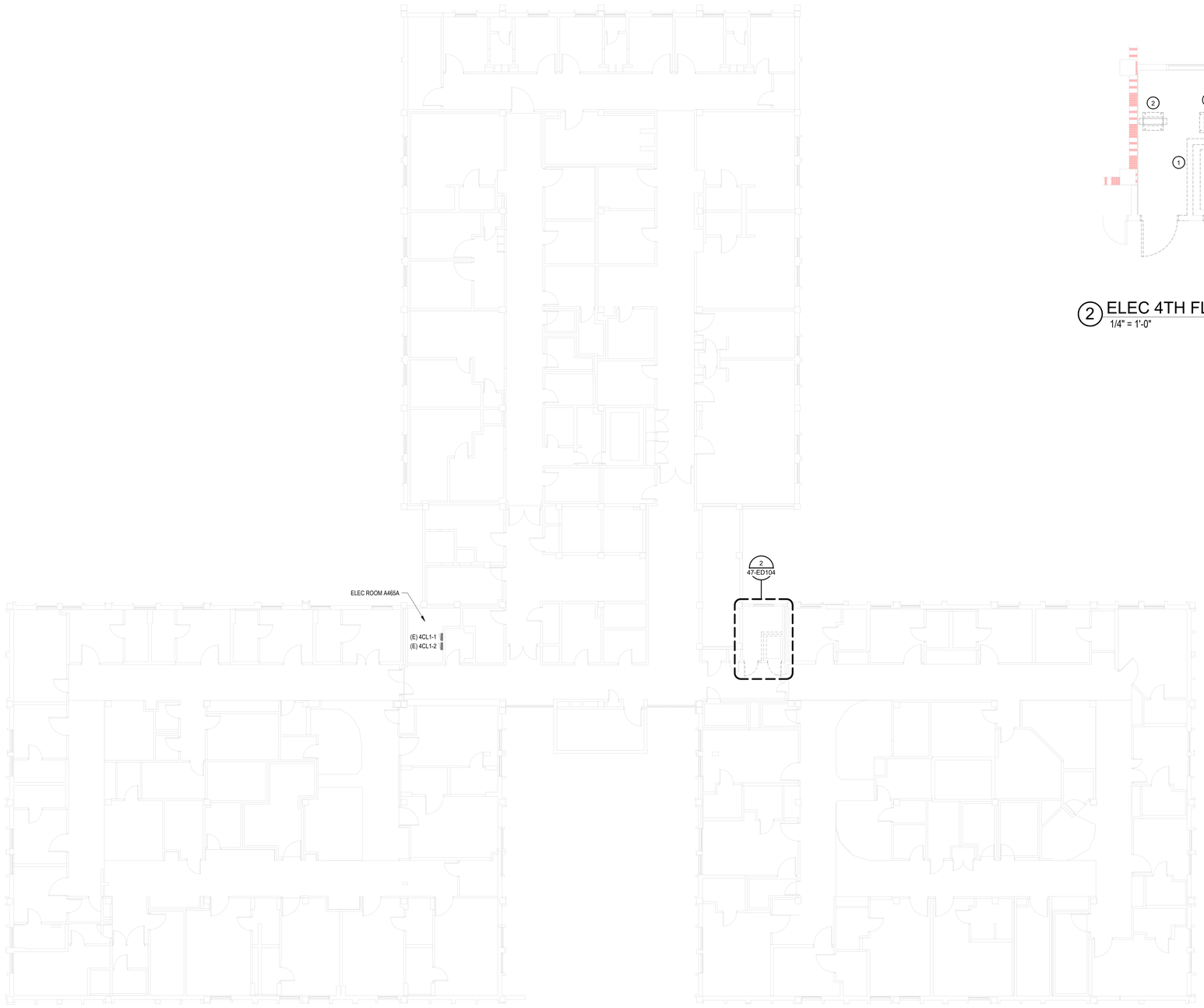
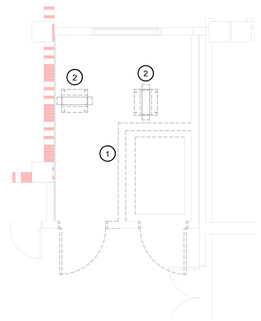


1 ELECTRICAL 4TH FLOOR DEMOLITION
3/32" = 1'-0"



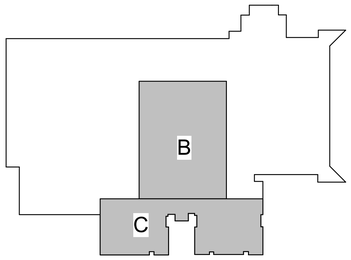
2 ELEC 4TH FLOOR DEMO - A401
1/4" = 1'-0"

SHEET NOTES:

1. EXISTING TR TO BE EXPANDED. REMOVE ALL EXISTING ELECTRICAL EQUIPMENT ON WALLS INDICATED TO BE DEMOLISHED, INCLUDING BUT NOT LIMITED TO, RECEPTACLES, HARDWIRE EQUIPMENT CONNECTIONS, CONDUIT AND OTHER HARDWARE. EXISTING LIGHTING AND CONTROLS TO BE DEMOLISHED. RETAIN EXISTING LIGHTING CIRCUIT FEEDING THE ROOM.
2. REMOVE ALL ELECTRICAL HARDWARE ASSOCIATED WITH TELECOMMUNICATION RACK(S) BEING REMOVED, INCLUDING UPS AND PDU EQUIPMENT.

GENERAL NOTES:

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



KEY PLAN

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

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

PLAN NORTH N

Revisions:	Date:

ARCHITECT/ENGINEER OF RECORD

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12/18/2025

Facilities Management Services

VA U.S. Department of Veterans Affairs

Drawing Title: ELECTRICAL 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-ED104

SHEET 378 of 559

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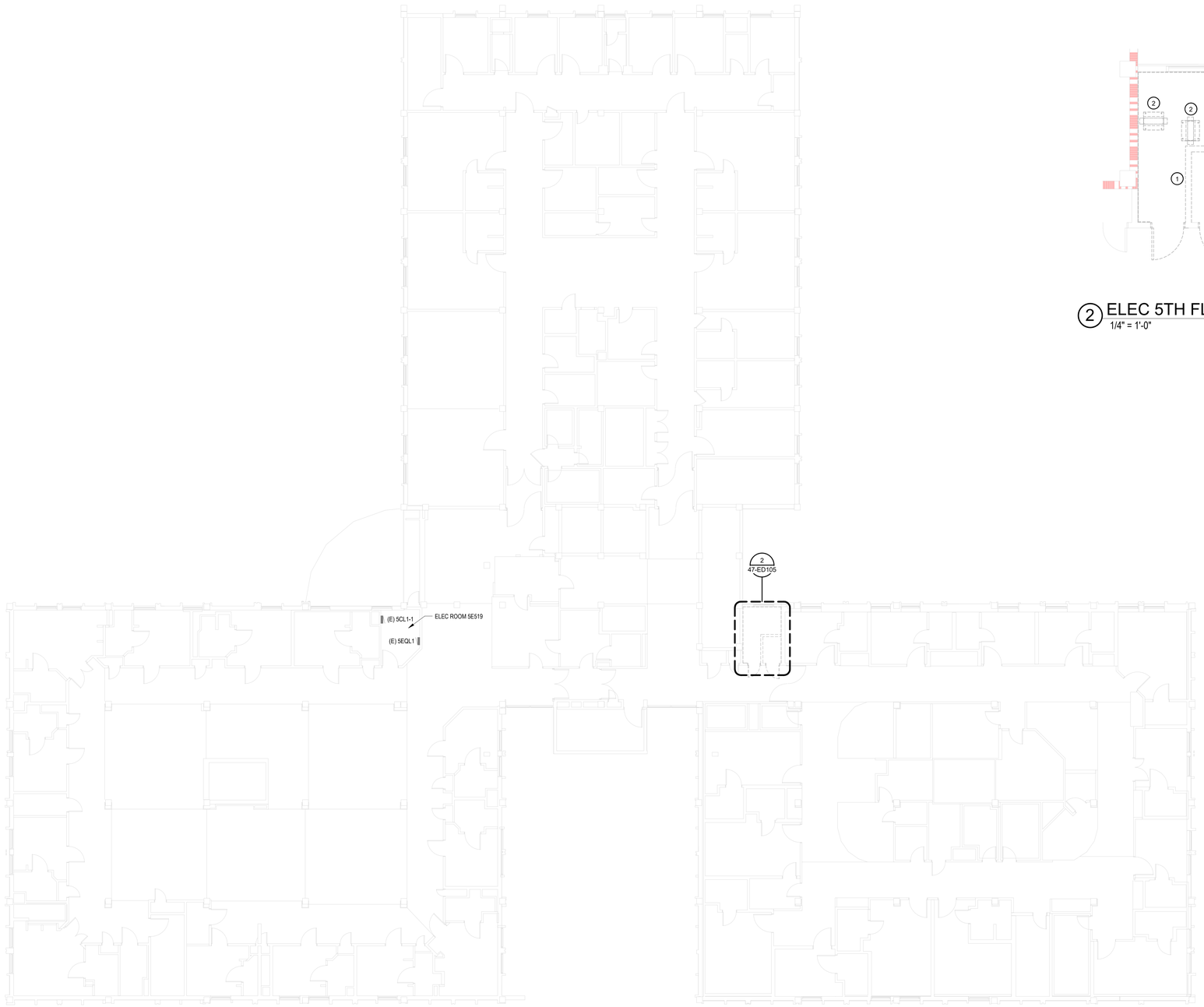
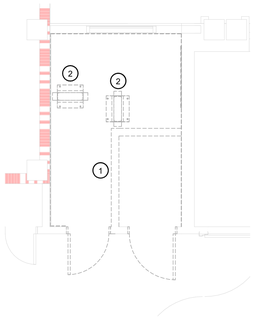


1 ELECTRICAL 5TH FLOOR DEMOLITION
3/32" = 1'-0"



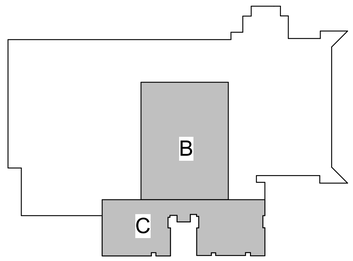
2 ELEC 5TH FLOOR DEMO - A501
1/4" = 1'-0"

SHEET NOTES:

1. EXISTING TR TO BE EXPANDED. REMOVE ALL EXISTING ELECTRICAL EQUIPMENT ON WALLS INDICATED TO BE DEMOLISHED, INCLUDING BUT NOT LIMITED TO, RECEPTACLES, HARDWIRE EQUIPMENT CONNECTIONS, CONDUIT AND OTHER HARDWARE. EXISTING LIGHTING AND CONTROLS TO BE DEMOLISHED. RETAIN EXISTING LIGHTING CIRCUIT FEEDING THE ROOM.
2. REMOVE ALL ELECTRICAL HARDWARE ASSOCIATED WITH TELECOMMUNICATION RACK(S) BEING REMOVED, INCLUDING UPS AND PDU EQUIPMENT.

GENERAL NOTES:

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



KEY PLAN

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

3/32" = 1'-0" 5 0 5 10 15 20 25 30 SCALE 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: ELECTRICAL 5TH 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-ED105

SHEET 379 of 559

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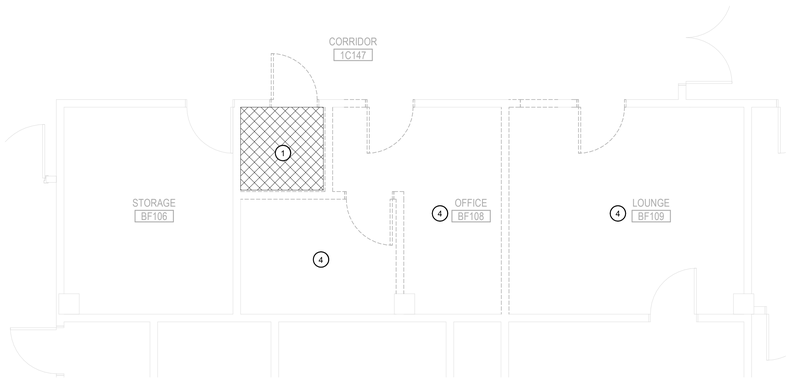
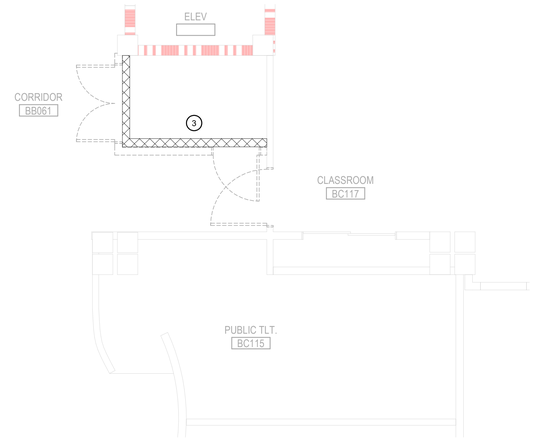
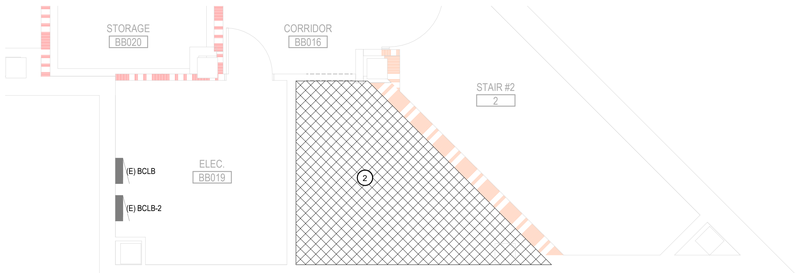


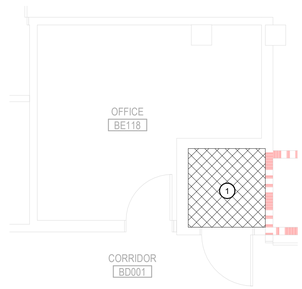
1 BF107 - ELECTRICAL DEMOLITION PLAN
1/4" = 1'-0"



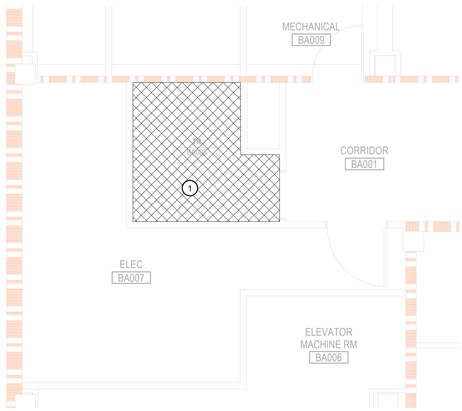
2 BC118 - ELECTRICAL DEMOLITION PLAN
1/4" = 1'-0"



3 BB018 - ELECTRICAL DEMOLITION PLAN
1/4" = 1'-0"



4 BE118 - ELECTRICAL DEMOLITION PLAN
1/4" = 1'-0"



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

SHEET NOTES:

1. EXISTING TR TO BE DECOMMISSIONED. EXISTING LIGHTING, CONTROLS, AND GENERAL USE OUTLETS TO REMAIN. REMOVE ALL ELECTRICAL INFRASTRUCTURE ASSOCIATED WITH TELECOMMUNICATIONS RACK(S) BEING REMOVED, INCLUDING BUT NOT LIMITED TO: DEDICATED RECEPTACLES, HARDWIRED EQUIPMENT CONNECTIONS, GROUNDING SYSTEMS, AND UPS AND PDU SYSTEMS. DEMOLISH CIRCUIT WIRING AND CONDUIT BACK TO SOURCE, OR NEAREST DEVICE OUTSIDE THE DEMO AREA ON THE SAME CIRCUIT.
2. EXISTING TR TO BE RENOVATED AND REUSED. EXISTING GENERAL USE OUTLETS TO REMAIN. REMOVE ALL ELECTRICAL INFRASTRUCTURE ASSOCIATED WITH TELECOMMUNICATION RACK(S) BEING REMOVED, INCLUDING BUT NOT LIMITED TO: DEDICATED RECEPTACLES, HARDWIRED EQUIPMENT CONNECTIONS, GROUNDING SYSTEMS, AND UPS AND PDU SYSTEMS. EXISTING LIGHTING AND CONTROLS TO BE DEMOLISHED. RETAIN EXISTING LIGHTING CIRCUITS FEEDING THE ROOM.
3. EXISTING TR TO BE EXPANDED. REMOVE ALL EXISTING ELECTRICAL EQUIPMENT ON WALLS INDICATED TO BE DEMOLISHED, INCLUDING BUT NOT LIMITED TO: RECEPTACLES, HARDWIRED EQUIPMENT CONNECTIONS, CONDUIT, AND OTHER HARDWARE. EXISTING LIGHTING AND CONTROLS TO BE DEMOLISHED. RETAIN EXISTING LIGHTING CIRCUIT FEEDING THE ROOM. REMOVE AND RELOCATE ANY EXISTING ELECTRICAL EQUIPMENT LOCATED ON EXTERIOR OF WALLS BEING DEMOLISHED.
4. REMOVE ALL EXISTING ELECTRICAL EQUIPMENT ON WALLS INDICATED TO BE DEMOLISHED, INCLUDING BUT NOT LIMITED TO, RECEPTACLES, SWITCHES, EQUIPMENT CONNECTIONS, CONDUIT AND OTHER HARDWARE. EXISTING LIGHTING AND CONTROLS TO BE DEMOLISHED. RETAIN EXISTING LIGHTING CIRCUIT FEEDING THE ROOM.

GENERAL NOTES:

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

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: ELECTRICAL ENLARGED BASEMENT 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-ED400

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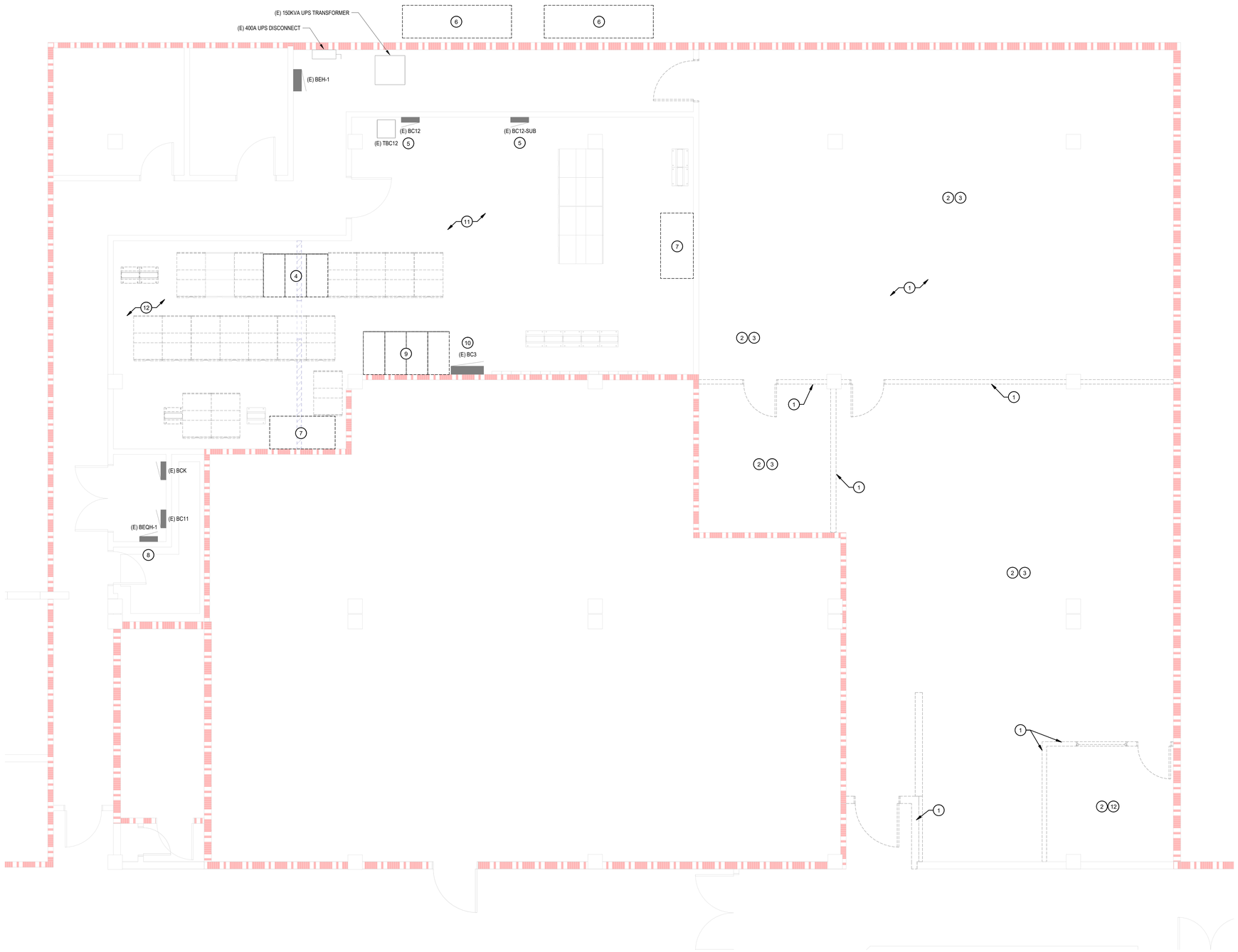

1 ELECTRICAL DEMOLITION - DATA CENTER
1/4" = 1'-0"

SHEET NOTES:

1. REMOVE ALL EXISTING ELECTRICAL EQUIPMENT ON OR WITHIN WALLS INDICATED TO BE DEMOLISHED, INCLUDING BUT NOT LIMITED TO, PANELBOARDS, RECEPTACLES, HARDWIRE EQUIPMENT CONNECTIONS, CONDUIT AND OTHER HARDWARE. DEMOLISH EXISTING CIRCUITS BACK TO THEIR SOURCE OR THE NEAREST NON-AFFECTED DEVICE ON THE SAME CIRCUIT.
2. EXISTING RECEPTACLES ON REMAINING WALLS IN THIS SPACE MAY REMAIN AND BE REWIRED TO THE NEW PANEL(S) SERVING THE NEW SPACE. REFER TO SHEET 47-EP401 FOR NEW WORK PLANS.
3. EXISTING LIGHTING AND CONTROLS SHALL BE DEMOLISHED IN THIS SPACE. REMOVE EXISTING LIGHTING CIRCUIT(S) BACK TO NEAREST JUNCTION BOX OUTSIDE OF THE AREA OF DEMOLITION AND MAINTAIN EXISTING CIRCUIT CONTINUITY.
4. EXISTING 40KVA DATA CENTER UPS SYSTEM TO BE DEMOLISHED. REMOVE ALL UPS SYSTEM COMPONENTS FROM DATA CENTER. REMOVE ALL EXISTING UNDERFLOOR AND OVERHEAD POWER DISTRIBUTION EQUIPMENT FROM UPS SYSTEM TO RACKS. DEMOLISH FEEDER SUPPLYING THE UPS BACK TO SOURCE PANEL BC11.
5. EXISTING TRANSFORMER TBC12, PANEL BC12, AND BC12 SUB-PANEL TO REMAIN IN PLACE.
6. EXISTING DATA CENTER CRAC UNIT BEING DEMOLISHED. CONTRACTOR TO DEMOLISH ALL ELECTRICAL CONNECTIONS, WIRING, AND CONDUIT BACK TO SOURCE ELECTRICAL PANEL, BEH-1.
7. EXISTING DATA CENTER CRAC UNIT BEING DEMOLISHED. CONTRACTOR TO DEMOLISH ALL ELECTRICAL CONNECTIONS, WIRING, AND CONDUIT BACK TO SOURCE ELECTRICAL PANEL, BCK.
8. DEMOLISH EXISTING PANEL BEQH-1 FEEDER WIRING AND CONDUIT BACK TO SOURCE PANEL EQ3. CONTRACTOR SHALL PROVIDE NEW FEEDER FOR RE-CONNECTION PRIOR TO DEMOLITION OF EXISTING FEEDER TO REDUCE DOWNTIME OF EQUIPMENT. REFER TO SHEET 47-EP401 FOR DATA CENTER PLANS. REFER TO 47-EP601 FOR ONE-LINE DIAGRAM. REFER TO PANEL SCHEDULE FOR ADDITIONAL INFORMATION.
9. EXISTING 140KVA DATA CENTER UPS SYSTEM, INCLUDING UPS MODULES, BATTERY CABINET(S), AND POWER INPUT AND DISTRIBUTION CABINET(S), TO BE RELOCATED AND REUSED IN THE NEW DATA CENTER. UPS OUTPUT DISTRIBUTION SECTION SHALL BE MODIFIED TO SUPPORT SUBFEED BREAKERS INSTEAD OF POWER PANELS. REFER TO SHEET 47-EP401 FOR NEW DATA CENTER EQUIPMENT LAYOUT. REFER TO SHEET 47-EP601 FOR ONE-LINE DIAGRAM.
10. EXISTING DATA CENTER UPS FEEDER PANEL "BC3" SHALL REMAIN IN PLACE. CONTRACTOR SHALL RE-ROUTE EXISTING BRANCH CIRCUIT TO THE NEW UPS LOCATION INSIDE THE NEW DATA CENTER. REFER TO 47-EP401 FOR NEW DATA CENTER PLANS.
11. EXISTING LIGHTING, CONTROLS, AND CIRCUIT(S) SHALL REMAIN IN THE DECOMMISSIONED DATA CENTER SPACE.
12. EXISTING LIGHTING AND CONTROLS SHALL BE DEMOLISHED IN THE LOCATIONS OF THE NEW ENTRANCE ROOMS. RETAIN EXISTING LIGHTING CIRCUIT(S) FEEDING THE ROOM. REFER TO SHEET 47-EP401 FOR NEW LIGHTING LAYOUT IN THE ENTRANCE ROOMS.

GENERAL NOTES:

1. REFER TO 00-E001 FOR GENERAL NOTES, DEMOLITION NOTES, AND LEGENDS.
2. DEMOLITION PLANS ARE CONCEPTUAL, NOT ALL DEVICES TO BE DEMOLISHED ARE SHOWN.
3. ELECTRICAL PANEL LOCATIONS SHOWN FOR REFERENCE ONLY. ALL PANELS ARE EXISTING TO REMAIN, UNLESS OTHERWISE NOTED.
4. EXISTING DATA CENTER BC143 IS TO BE DECOMMISSIONED. EXISTING TELECOM RACKS AND CABINETS TO BE REMOVED BY OTHERS. COORDINATE WITH TELECOM AND VA COR FOR SEQUENCE OF DEMOLITION PRIOR TO REMOVING EXISTING ELECTRICAL INFRASTRUCTURE FROM THE DATA CENTER. REFER TO SHEET 47-TD401 FOR TELECOM DEMOLITION SCOPE.
5. ALL EXISTING GROUNDING & BONDING SYSTEMS SHALL BE REMOVED WITHIN THE EXISTING DATA CENTER.
6. ALL EXISTING GENERAL USE OUTLETS IN THE DECOMMISSIONED DATA CENTER SHALL REMAIN.

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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12/18/2025

Facilities Management Services

VA U.S. Department of Veterans Affairs

Drawing Title	Phase	Project Title	Project Number
ELECTRICAL ENLARGED DEMOLITION - DATA CENTER	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-ED401
			SHEET 381 of 559

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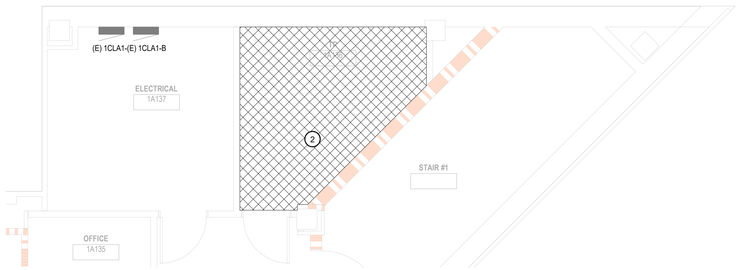

1 1A136 - ELECTRICAL DEMOLITION PLAN
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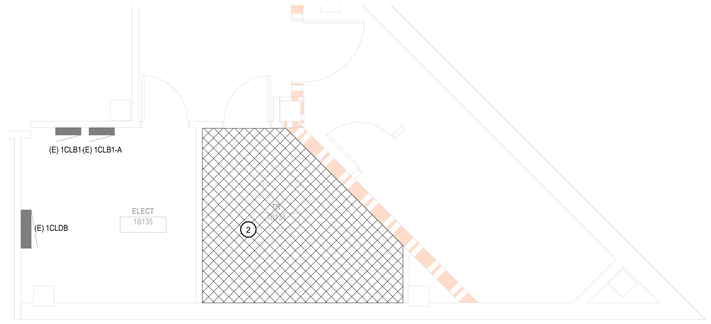
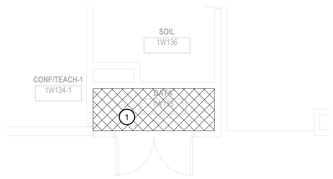
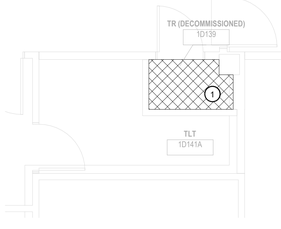


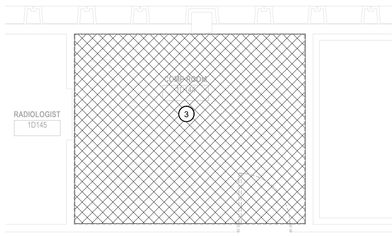
2 1B134 - ELECTRICAL DEMOLITION PLAN
1/4" = 1'-0"



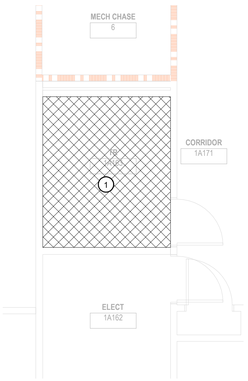
3 1W135 - ELECTRICAL DEMOLITION PLAN
1/4" = 1'-0"



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



5 1D114 - ELECTRICAL DEMOLITION PLAN
1/4" = 1'-0"



6 1A163 - ELECTRICAL DEMOLITION PLAN
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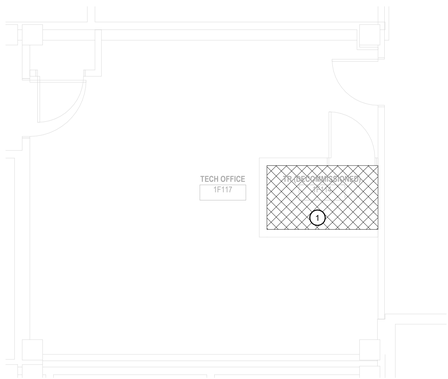
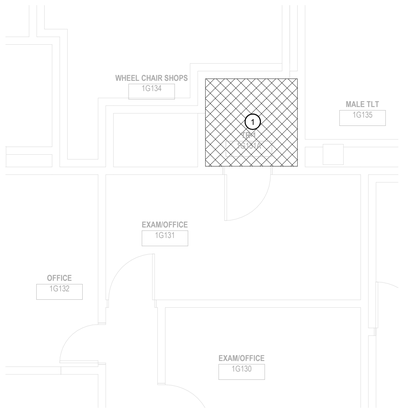
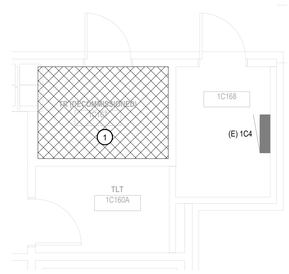


7 1F114 - ELECTRICAL DEMOLITION PLAN
1/4" = 1'-0"



8 1G131A - ELECTRICAL DEMOLITION PLAN
1/4" = 1'-0"



9 1C167 - ELECTRICAL DEMOLITION PLAN
1/4" = 1'-0"

SHEET NOTES:

1. EXISTING TR TO BE DECOMMISSIONED. EXISTING LIGHTING, CONTROLS, AND GENERAL USE OUTLETS TO REMAIN. REMOVE ALL ELECTRICAL INFRASTRUCTURE ASSOCIATED WITH TELECOMMUNICATIONS RACK(S) BEING REMOVED, INCLUDING BUT NOT LIMITED TO: DEDICATED RECEPTACLES, HARDWIRED EQUIPMENT CONNECTIONS, GROUNDING SYSTEMS, AND UPS AND PDU SYSTEMS. DEMOLISH CIRCUIT WIRING AND CONDUIT BACK TO SOURCE, OR NEAREST DEVICE OUTSIDE THE DEMO AREA ON THE SAME CIRCUIT.
2. EXISTING TR TO BE RENOVATED AND REUSED. EXISTING GENERAL USE OUTLETS TO REMAIN. REMOVE ALL ELECTRICAL INFRASTRUCTURE ASSOCIATED WITH TELECOMMUNICATION RACK(S) BEING REMOVED, INCLUDING BUT NOT LIMITED TO: DEDICATED RECEPTACLES, HARDWIRED EQUIPMENT CONNECTIONS, GROUNDING SYSTEMS, AND UPS AND PDU SYSTEMS. EXISTING LIGHTING AND CONTROLS TO BE DEMOLISHED. RETAIN EXISTING LIGHTING CIRCUITS FEEDING THE ROOM.
3. EXISTING BIOMED DATA CENTER TO BE DECOMMISSIONED AND REPURPOSED AS A TR, REFER TO TELECOM PLANS. REMOVE ALL EXISTING ELECTRICAL EQUIPMENT IN ROOM, INCLUDING BUT NOT LIMITED TO, RECEPTACLES, HARDWIRE EQUIPMENT CONNECTIONS, CONDUIT AND OTHER HARDWARE, LIGHTING, AND CONTROLS. REMOVE ELECTRICAL CIRCUITS BACK TO SOURCE. REMOVE EXISTING FREE STANDING UPS SYSTEM FROM ROOM AND RETURN TO VA COR. REMOVE ALL UPS SYSTEM CABLING BACK TO ITS SOURCE.

GENERAL NOTES:

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

PLAN NORTH N

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

Revisions:	Date:

ARCHITECT/ENGINEER OF RECORD

AWEN SOLUTIONS GROUP
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NORTH CAROLINA PROFESSIONAL SEAL 040390 JINZE CHEN
12/18/2025

Facilities Management Services

VA U.S. Department of Veterans Affairs

Drawing Title: ELECTRICAL ENLARGED 1ST 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

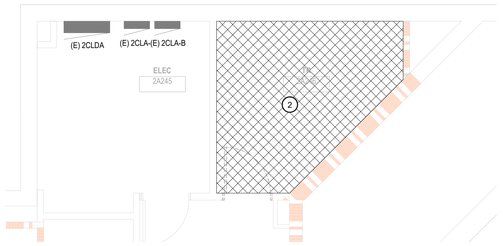
Drawing Number: 47-ED402

SHEET 382 of 559

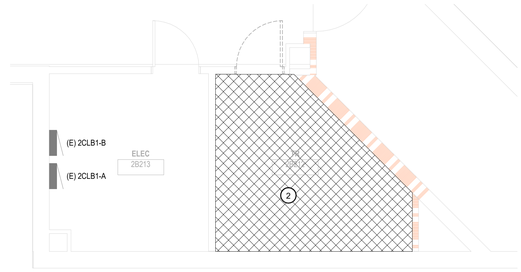
VA FORM 08 - 6231

12/18/2025 5:24:28 PM

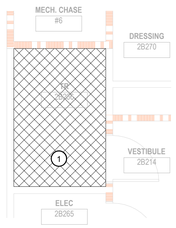
Autodesk Docs://Asheville EHRM_V23/637-22-700.047.E.ASH - EHRM.rvt



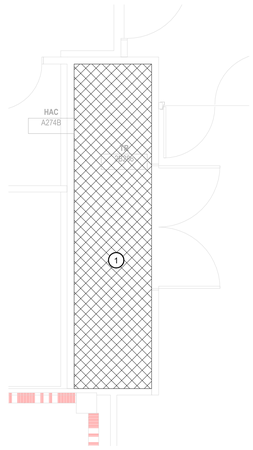
1 2A246 - ELECTRICAL DEMOLITION PLAN
1/4" = 1'-0"



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



3 2B266 - ELECTRICAL DEMOLITION PLAN
1/4" = 1'-0"



4 2B286 - ELECTRICAL DEMOLITION PLAN
1/4" = 1'-0"

SHEET NOTES:

1. EXISTING TR TO BE DECOMMISSIONED. EXISTING LIGHTING, CONTROLS, AND GENERAL USE OUTLETS TO REMAIN. REMOVE ALL ELECTRICAL INFRASTRUCTURE ASSOCIATED WITH TELECOMMUNICATIONS RACK(S) BEING REMOVED, INCLUDING BUT NOT LIMITED TO: DEDICATED RECEPTACLES, HARDWIRED EQUIPMENT CONNECTIONS, GROUNDING SYSTEMS, AND UPS AND PDU SYSTEMS. DEMOLISH CIRCUIT WIRING AND CONDUIT BACK TO SOURCE, OR NEAREST DEVICE OUTSIDE THE DEMO AREA ON THE SAME CIRCUIT.
2. EXISTING TR TO BE RENOVATED AND REUSED. EXISTING GENERAL USE OUTLETS TO REMAIN. REMOVE ALL ELECTRICAL INFRASTRUCTURE ASSOCIATED WITH TELECOMMUNICATION RACK(S) BEING REMOVED, INCLUDING BUT NOT LIMITED TO: DEDICATED RECEPTACLES, HARDWIRED EQUIPMENT CONNECTIONS, GROUNDING SYSTEMS, AND UPS AND PDU SYSTEMS. EXISTING LIGHTING AND CONTROLS TO BE DEMOLISHED. RETAIN EXISTING LIGHTING CIRCUITS FEEDING THE ROOM.

GENERAL NOTES:

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

PLAN NORTH N

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

Revisions:	Date:

ARCHITECT/ENGINEER OF RECORD

AWEN SOLUTIONS GROUP
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12/18/2025

Facilities Management Services

VA U.S. Department of Veterans Affairs

Drawing Title: ELECTRICAL ENLARGED 2ND 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-ED403

SHEET 383 of 559

VA FORM 08 - 6231

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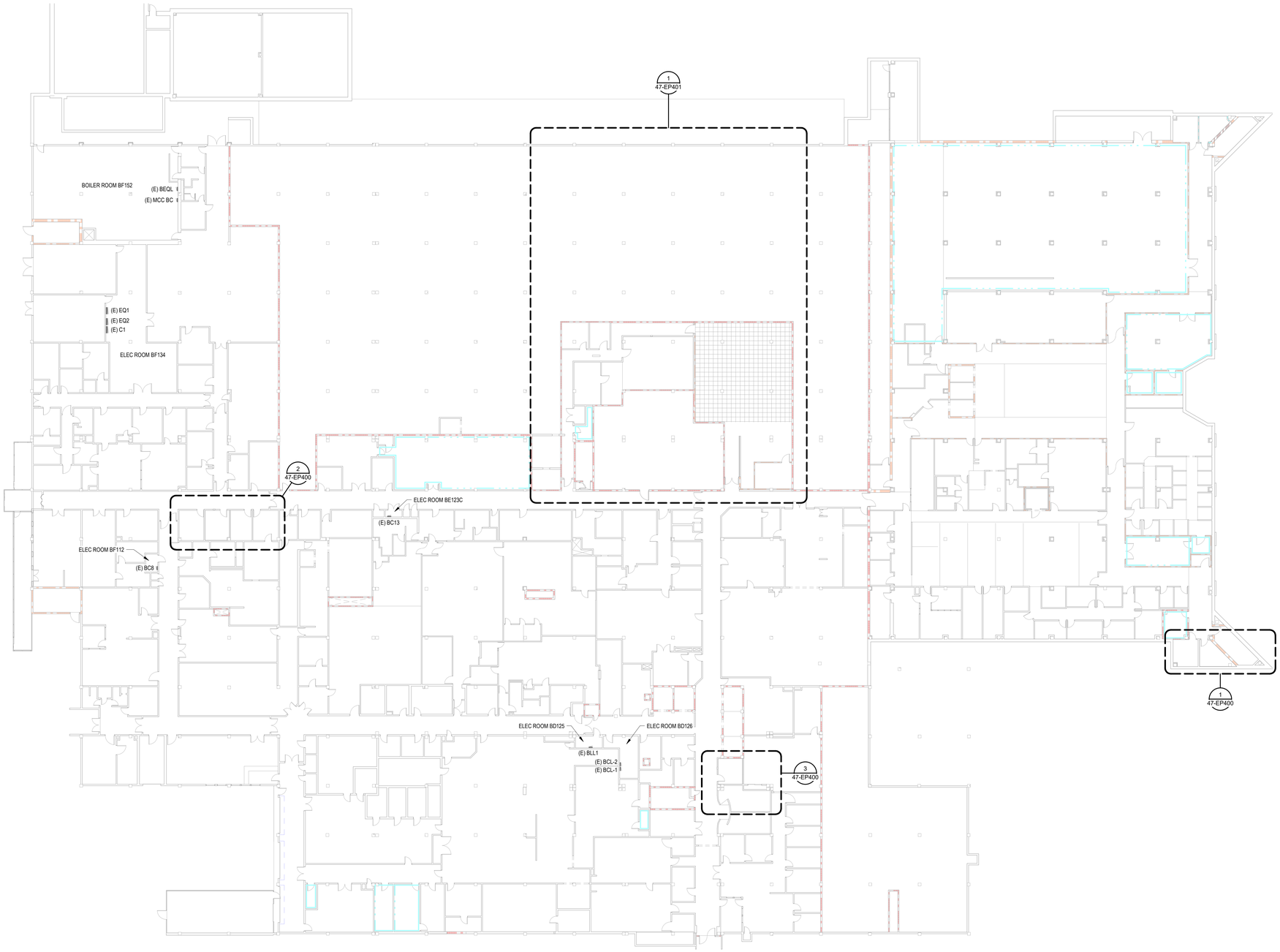


1 ELECTRICAL BASEMENT POWER PLAN - OVERALL
1" = 20'-0"

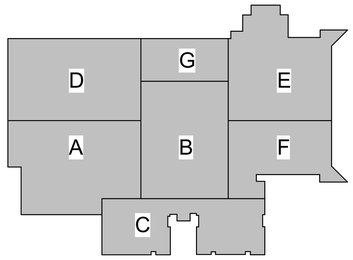
SHEET NOTES:

GENERAL NOTES:

1. REFER TO 00-E001 FOR GENERAL NOTES AND LEGENDS.
2. REFER TO ENLARGED PLANS FOR ELECTRICAL SCOPE.
3. ELECTRICAL PANEL LOCATIONS SHOWN FOR REFERENCE ONLY. ALL PANELS ARE EXISTING TO REMAIN, UNLESS OTHERWISE NOTED.

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:

ARCHITECT/ENGINEER OF RECORD

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12/18/2025

Facilities Management Services

VA U.S. Department of Veterans Affairs

Drawing Title: ELECTRICAL BASEMENT PLAN - 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-EP100

SHEET 384 of 559

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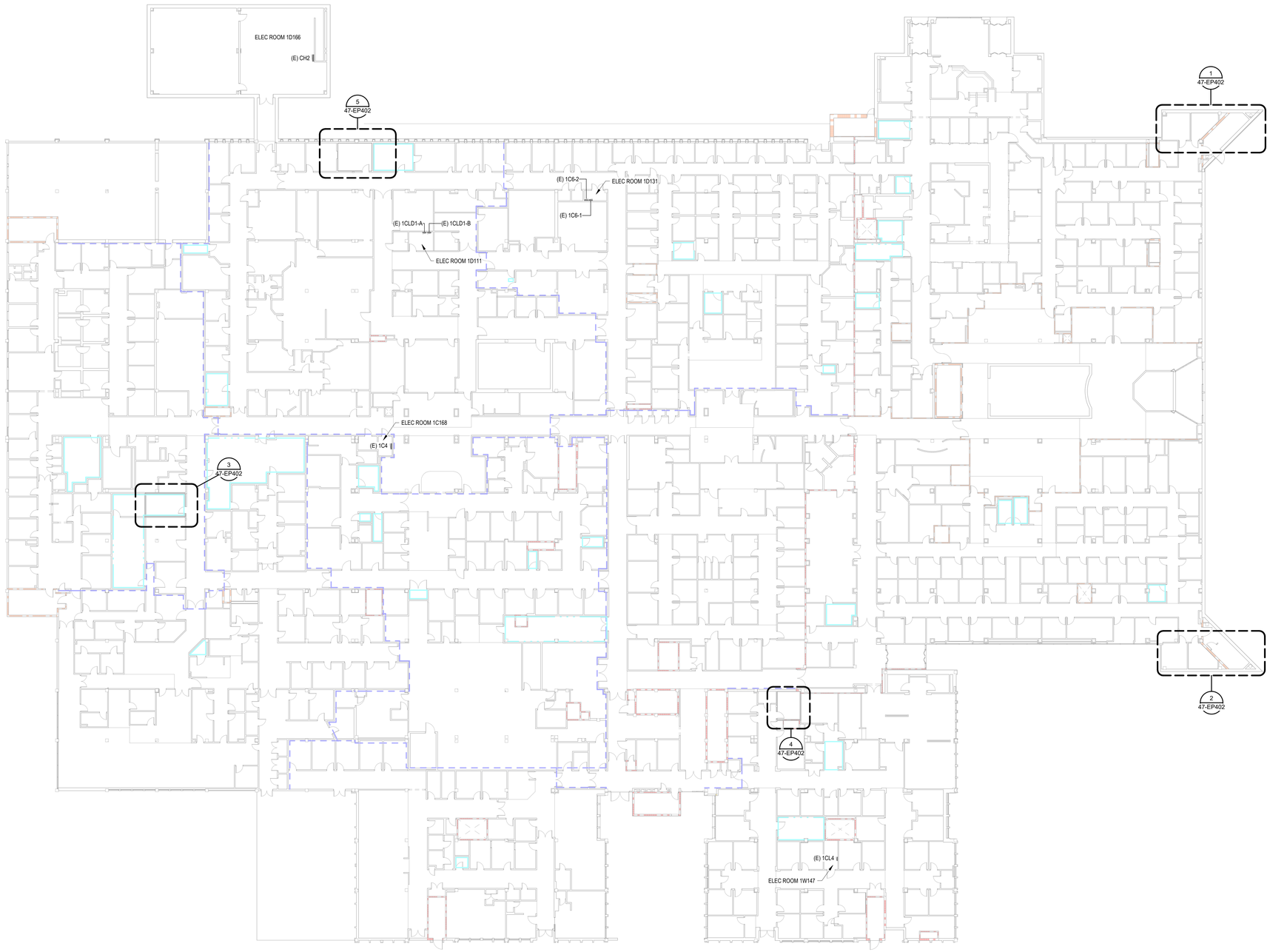


1 ELECTRICAL 1ST FLOOR POWER PLAN - OVERALL
1" = 20'-0"

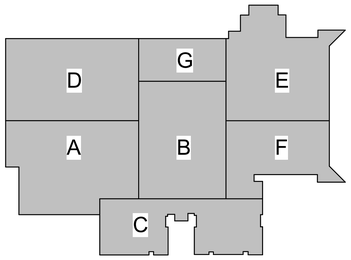
SHEET NOTES:

GENERAL NOTES:

1. REFER TO 00-E001 FOR GENERAL NOTES AND LEGENDS.
2. REFER TO 47-EP601 FOR BUILDING ONE-LINES, PANEL SCHEDULES, AND EQUIPMENT SCHEDULE.
3. REFER TO TELECOM DRAWINGS FOR EQUIPMENT AND TELECOM RACK LAYOUTS.
4. ELECTRICAL PANEL LOCATIONS SHOWN FOR REFERENCE ONLY. ALL PANELS OUTSIDE OF TR'S ARE EXISTING TO REMAIN.

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:

ARCHITECT/ENGINEER OF RECORD

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12/18/2025

Facilities Management Services

VA U.S. Department of Veterans Affairs

Drawing Title: ELECTRICAL 1ST FLOOR PLAN - OVERALL

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-EP101

SHEET 385 of 559

VA FORM 08 - 6231

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1 ELECTRICAL 2ND FLOOR POWER PLAN - OVERALL
1" = 20'-0"

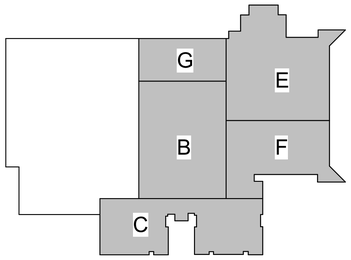
SHEET NOTES:

GENERAL NOTES:

1. REFER TO 00-E001 FOR GENERAL NOTES AND LEGENDS.
2. REFER TO 47-EP601 FOR BUILDING ONE-LINES, PANEL SCHEDULES, AND EQUIPMENT SCHEDULE.
3. REFER TO TELECOM DRAWINGS FOR EQUIPMENT AND TELECOM RACK LAYOUTS.
4. ELECTRICAL PANEL LOCATIONS SHOWN FOR REFERENCE ONLY. ALL PANELS OUTSIDE OF TR'S ARE EXISTING TO REMAIN.

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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12/18/2025

Facilities Management Services

VA U.S. Department of Veterans Affairs

Drawing Title: ELECTRICAL 2ND FLOOR PLAN - 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-EP102

SHEET 386 of 559

VA FORM 08 - 6231

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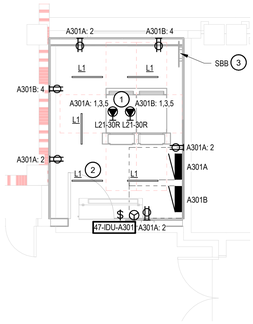
1 ELECTRICAL 3RD FLOOR POWER PLAN
3/32" = 1'-0"



2 ELEC 3RD FLOOR POWER PLAN - A301
1/4" = 1'-0"

SHEET NOTES:

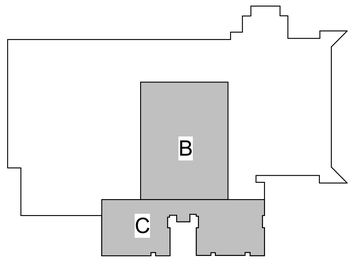
1. PROVIDE TWO (2) NEMA L21-30R TWIST LOCKING RECEPTACLES FOR RACK POWER. MOUNT TO CABLE TRAY ABOVE RACK IN AN ACCESSIBLE LOCATION. COORDINATE FINAL INSTALLATION WITH TELECOM EQUIPMENT. REFER TO TELECOM PLANS.
2. CIRCUIT NEW LIGHT FIXTURES AND CONTROLS TO EXISTING LIGHTING CIRCUIT SERVING THE ROOM.
3. BOND EACH RACK BONDING BUSBAR (RBB) TO THE SBB. SBB SHALL BE BONDED BACK TO THE BUILDING PBB IN THE DATA CENTER. REFER TO GROUNDING AND BONDING DETAIL(S) ON SHEETS 47-TN608 AND 47-TN609 FOR FURTHER DETAILS.

GENERAL NOTES:

1. REFER TO 00-E001 FOR GENERAL NOTES, LUMINAIRE SCHEDULE, AND POWER EQUIPMENT SCHEDULE. PROVIDE UPS AND PDU EQUIPMENT IN EACH RACK AS SPECIFIED.
2. REFER TO 47-EP601 FOR BUILDING ONE-LINES, PANEL SCHEDULES, AND EQUIPMENT SCHEDULE.
3. REFER TO TELECOM DRAWINGS FOR EQUIPMENT AND TELECOM RACK LAYOUTS.
4. ELECTRICAL PANEL LOCATIONS SHOWN FOR REFERENCE ONLY. ALL PANELS OUTSIDE OF TR'S ARE EXISTING TO REMAIN.
5. PROVIDE RELOCATED INSTALLATION FOR ELECTRICAL EQUIPMENT REMOVED FROM THE DEMOLISHED WALL(S) INSIDE THE TR. REFER TO DEMO PLANS.
6. REFER TO 00-E501, DETAILS 2 & 5 FOR TYPICAL EQUIPMENT ELEVATION FOR TWO-RACK TR INSTALLATIONS. INSTALL, CONNECT, AND ENERGIZE RACK POWER EQUIPMENT AS SPECIFIED.
7. CONTRACTOR SHALL COORDINATE FINAL PANEL LOCATIONS INSIDE TR'S WITH TELECOM TO ENSURE OVERHEAD CLEARANCE IS PROVIDED PER NEC 110.26(E), AND THAT CABLE TRAY IS NOT ROUTED DIRECTLY ABOVE THE PANEL.

PARTITION LEGEND

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



KEY PLAN

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:

ARCHITECT/ENGINEER OF RECORD

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12/18/2025

Facilities Management Services

VA U.S. Department of Veterans Affairs

Drawing Title: ELECTRICAL 3RD FLOOR PLAN

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-EP103

SHEET 387 of 559

VA FORM 08 - 6231

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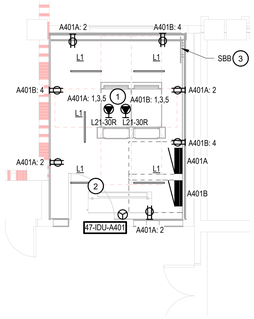
1 ELECTRICAL 4TH FLOOR POWER PLAN
3/32" = 1'-0"



2 ELEC 4TH FLOOR POWER PLAN - A401
1/4" = 1'-0"

SHEET NOTES:

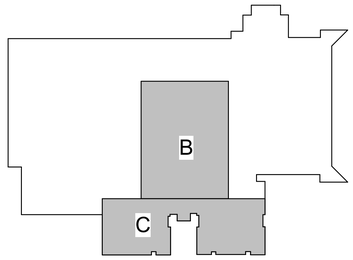
1. PROVIDE TWO (2) NEMA L21-30R TWIST LOCKING RECEPTACLES FOR RACK POWER. MOUNT TO CABLE TRAY ABOVE RACK IN AN ACCESSIBLE LOCATION. COORDINATE FINAL INSTALLATION WITH TELECOM EQUIPMENT. REFER TO TELECOM PLANS.
2. CIRCUIT NEW LIGHT FIXTURES AND CONTROLS TO EXISTING LIGHTING CIRCUIT SERVING THE ROOM.
3. BOND EACH RACK BONDING BUSBAR (RBB) TO THE SBB. SBB SHALL BE BONDED BACK TO THE BUILDING PBB IN THE DATA CENTER. REFER TO GROUNDING AND BONDING DETAIL(S) ON SHEETS 47-TN608 AND 47-TN609 FOR FURTHER DETAILS.

GENERAL NOTES:

1. REFER TO 00-E001 FOR GENERAL NOTES, LUMINAIRE SCHEDULE, AND POWER EQUIPMENT SCHEDULE. PROVIDE UPS AND PDU EQUIPMENT IN EACH RACK AS SPECIFIED.
2. REFER TO 47-EP601 FOR BUILDING ONE-LINES, PANEL SCHEDULES, AND EQUIPMENT SCHEDULE.
3. REFER TO TELECOM DRAWINGS FOR EQUIPMENT AND TELECOM RACK LAYOUTS.
4. ELECTRICAL PANEL LOCATIONS SHOWN FOR REFERENCE ONLY. ALL PANELS OUTSIDE OF TR'S ARE EXISTING TO REMAIN.
5. PROVIDE RELOCATED INSTALLATION FOR ELECTRICAL EQUIPMENT REMOVED FROM THE DEMOLISHED WALL(S) INSIDE THE TR. REFER TO DEMO PLANS.
6. REFER TO 00-E501, DETAILS 2 & 5 FOR TYPICAL EQUIPMENT ELEVATION FOR TWO-RACK TR INSTALLATIONS. INSTALL, CONNECT, AND ENERGIZE RACK POWER EQUIPMENT AS SPECIFIED.
7. CONTRACTOR SHALL COORDINATE FINAL PANEL LOCATIONS INSIDE TR'S WITH TELECOM TO ENSURE OVERHEAD CLEARANCE IS PROVIDED PER NEC 110.26(E), AND THAT CABLE TRAY IS NOT ROUTED DIRECTLY ABOVE THE PANEL.

PARTITION LEGEND

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



KEY PLAN

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:

ARCHITECT/ENGINEER OF RECORD

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12/18/2025

Facilities Management Services

VA U.S. Department of Veterans Affairs

Drawing Title: ELECTRICAL 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-EP104

SHEET 388 of 559

VA FORM 08 - 6231

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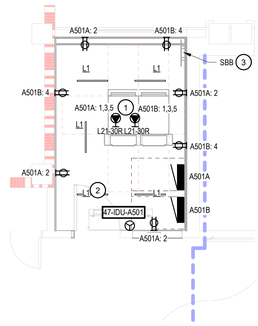
1 ELECTRICAL 5TH FLOOR POWER PLAN
3/32" = 1'-0"



2 ELEC 5TH FLOOR POWER PLAN - A501
1/4" = 1'-0"

SHEET NOTES:

1. PROVIDE TWO (2) NEMA L21-30R TWIST LOCKING RECEPTACLES FOR RACK POWER. MOUNT TO CABLE TRAY ABOVE RACK IN AN ACCESSIBLE LOCATION. COORDINATE FINAL INSTALLATION WITH TELECOM EQUIPMENT. REFER TO TELECOM PLANS.
2. CIRCUIT NEW LIGHT FIXTURES AND CONTROLS TO EXISTING LIGHTING CIRCUIT SERVING THE ROOM.
3. BOND EACH RACK BONDING BUSBAR (RBB) TO THE SBB. SBB SHALL BE BONDED BACK TO THE BUILDING PBB IN THE DATA CENTER. REFER TO GROUNDING AND BONDING DETAIL(S) ON SHEETS 47-TN608 AND 47-TN609 FOR FURTHER DETAILS.

GENERAL NOTES:

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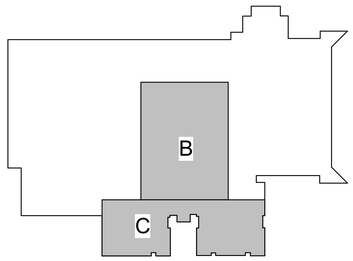
2. REFER TO 47-EP601 FOR BUILDING ONE-LINES, PANEL SCHEDULES, AND EQUIPMENT SCHEDULE.
3. REFER TO TELECOM DRAWINGS FOR EQUIPMENT AND TELECOM RACK LAYOUTS.
4. ELECTRICAL PANEL LOCATIONS SHOWN FOR REFERENCE ONLY. ALL PANELS OUTSIDE OF TR'S ARE EXISTING TO REMAIN.
5. PROVIDE RELOCATED INSTALLATION FOR ELECTRICAL EQUIPMENT REMOVED FROM THE DEMOLISHED WALL(S) INSIDE THE TR. REFER TO DEMO PLANS.
6. REFER TO 00-E501, DETAILS 2 & 5 FOR TYPICAL EQUIPMENT ELEVATION FOR TWO-RACK TR INSTALLATIONS. INSTALL, CONNECT, AND ENERGIZE RACK POWER EQUIPMENT AS SPECIFIED.
7. CONTRACTOR SHALL COORDINATE FINAL PANEL LOCATIONS INSIDE TR'S WITH TELECOM TO ENSURE OVERHEAD CLEARANCE IS PROVIDED PER NEC 110.26(E), AND THAT CABLE TRAY IS NOT ROUTED DIRECTLY ABOVE THE PANEL.

PARTITION LEGEND

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



KEY PLAN

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:

ARCHITECT/ENGINEER OF RECORD

AWEN SOLUTIONS GROUP
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12/18/2025

Facilities Management Services

VA U.S. Department of Veterans Affairs

Drawing Title	Phase	Project Title	Project Number
ELECTRICAL 5TH FLOOR PLAN	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-EP105
		Issue Date: 12.19.2025 / Checked / Drawn	SHEET 389 of 559

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1 ELECTRICAL ROOF PLAN

1" = 20'-0"

SHEET NOTES:

1. IF NO EXTERIOR RECEPTACLE EXISTS WITHIN 25 FT OF NEW ROOFTOP MECHANICAL EQUIPMENT, CONTRACTOR SHALL PROVIDE NEW GFCI, WEATHERPROOF RECEPTACLE CIRCUITED TO NEAREST EXISTING 120V ROOFTOP RECEPTACLE CIRCUIT. RECEPTACLE SHALL BE MOUNTED TO NEAREST WALL SURFACE, OR PROVIDE RECEPTACLE MOUNTING FRAME PER DETAIL 4, SHEET 00-E503.

GENERAL NOTES:

1. REFER TO 00-E001 FOR GENERAL NOTES AND LEGENDS.
2. REFER TO ENLARGED PLANS FOR ELECTRICAL SCOPE.
3. ELECTRICAL PANEL LOCATIONS SHOWN FOR REFERENCE ONLY. ALL PANELS ARE EXISTING TO REMAIN, UNLESS OTHERWISE NOTED.

PLAN NORTH N

1" = 20'-0" SCALE 20 0 20 40 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: ELECTRICAL ROOF 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-EP106

SHEET 390 of 559

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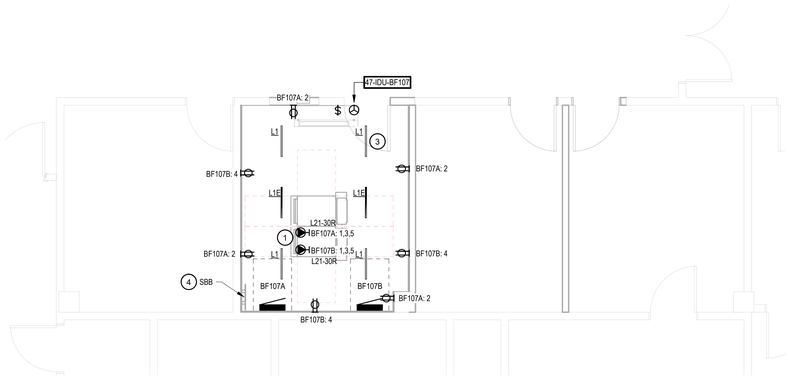
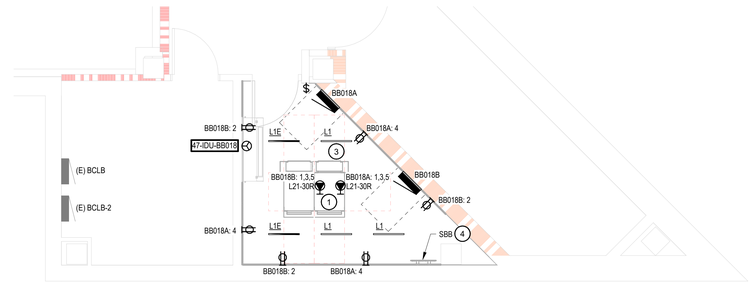
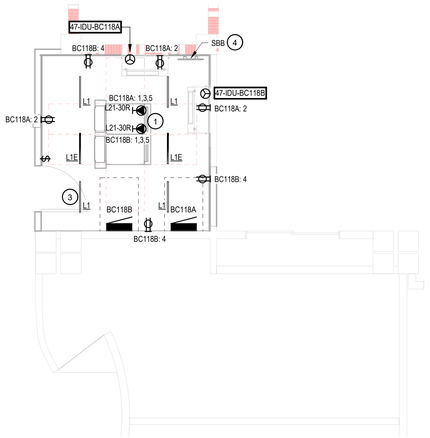


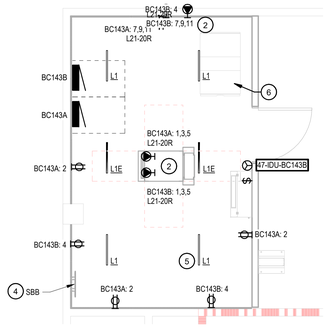
1 BF107 - ELECTRICAL PLAN
1/4" = 1'-0"



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



3 BC118 - ELECTRICAL PLAN
1/4" = 1'-0"



4 ENTRANCE ROOM BC143A - ELECTRICAL PLAN
1/4" = 1'-0"

SHEET NOTES:

1. PROVIDE TWO (2) NEMA L21-30R TWIST LOCKING RECEPTACLES FOR RACK POWER. MOUNT TO CABLE TRAY ABOVE RACK IN AN ACCESSIBLE LOCATION. COORDINATE FINAL INSTALLATION WITH TELECOM EQUIPMENT. REFER TO TELECOM PLANS.
2. PROVIDE TWO (2) NEMA L21-20R TWIST LOCKING RECEPTACLES FOR RACK POWER. MOUNT TO CABLE TRAY ABOVE RACK IN AN ACCESSIBLE LOCATION. COORDINATE FINAL INSTALLATION WITH TELECOM EQUIPMENT. REFER TO TELECOM PLANS.
3. CIRCUIT NEW LIGHT FIXTURES AND CONTROLS TO EXISTING LIGHTING CIRCUIT SERVING THE ROOM.
4. BOND EACH RACK BONDING BUSBAR (RBB) TO THE SBB. SBB SHALL BE BONDED BACK TO THE BUILDING PBB IN THE DATA CENTER. REFER TO GROUNDING AND BONDING DETAIL(S) ON SHEETS 47-TN608 AND 47-TN609 FOR FURTHER DETAILS.
5. CIRCUIT ENTRANCE ROOM LIGHT FIXTURES AND CONTROLS TO EXISTING LIGHTING CIRCUIT SERVING THE ROOM. CONTRACTOR SHALL FIELD-VERIFY EXISTING CIRCUIT IS SUPPLIED VIA GENERATOR-BACKED PANEL.
6. EXISTING DATA CENTER CABINET TO REMAIN IN NEW ENTRANCE ROOM. PROVIDE NEW RACK POWER OUTLETS AS SPECIFIED. PROVIDE RACK-MOUNTED POWER EQUIPMENT INCLUDING UPS AND PDU, FOR A ONE RACK INSTALLATION PER DETAILS 1 AND 4 ON SHEET 00-E501.

GENERAL NOTES:

1. REFER TO 00-E001 FOR GENERAL NOTES, LUMINAIRE SCHEDULE, AND POWER EQUIPMENT SCHEDULE. PROVIDE UPS AND PDU EQUIPMENT IN EACH RACK AS SPECIFIED.
2. REFER TO 47-EP601 FOR BUILDING ONE-LINES, PANEL SCHEDULES, AND EQUIPMENT SCHEDULE.
3. REFER TO TELECOM DRAWINGS FOR EQUIPMENT AND TELECOM RACK LAYOUTS.
4. ELECTRICAL PANEL LOCATIONS SHOWN FOR REFERENCE ONLY. ALL PANELS OUTSIDE OF TR'S ARE EXISTING TO REMAIN.
5. PROVIDE RELOCATED INSTALLATION FOR ELECTRICAL EQUIPMENT REMOVED FROM THE DEMOLISHED WALL(S) INSIDE THE TR. REFER TO DEMO PLANS.
6. REFER TO 00-E501, DETAILS 2 & 5 FOR TYPICAL EQUIPMENT ELEVATION FOR TWO-RACK TR INSTALLATIONS. INSTALL, CONNECT, AND ENERGIZE RACK POWER EQUIPMENT AS SPECIFIED.
7. REFER TO 00-E502, DETAILS 2 & 5 FOR TYPICAL EQUIPMENT ELEVATION FOR ENTRANCE ROOM INSTALLATIONS. INSTALL, CONNECT, AND ENERGIZE RACK POWER EQUIPMENT AS SPECIFIED.
8. PROVIDE UNSWITCHED PHASE CONDUCTOR FROM CIRCUIT SERVING LOCAL SWITCH GROUP TO ALL WALL MOUNTED "L1E" FIXTURE TYPES.
9. CONTRACTOR SHALL COORDINATE FINAL PANEL LOCATIONS INSIDE TR'S WITH TELECOM TO ENSURE OVERHEAD CLEARANCE IS PROVIDED PER NEC 110.26(E), AND THAT CABLE TRAY IS NOT ROUTED DIRECTLY ABOVE THE PANEL.

PARTITION LEGEND

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

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: ELECTRICAL ENLARGED BASEMENT PLANS

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-EP400

SHEET 391 of 559

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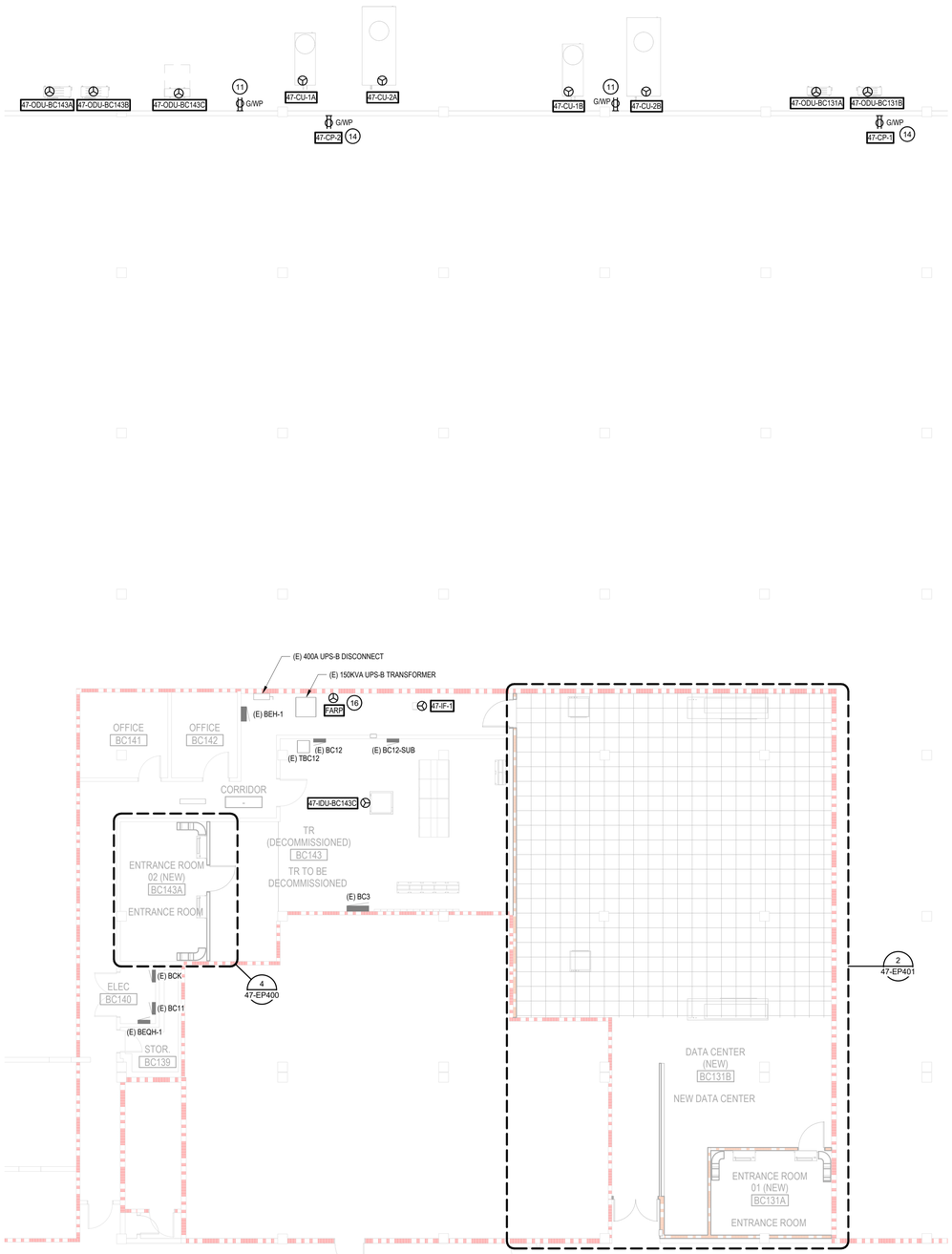
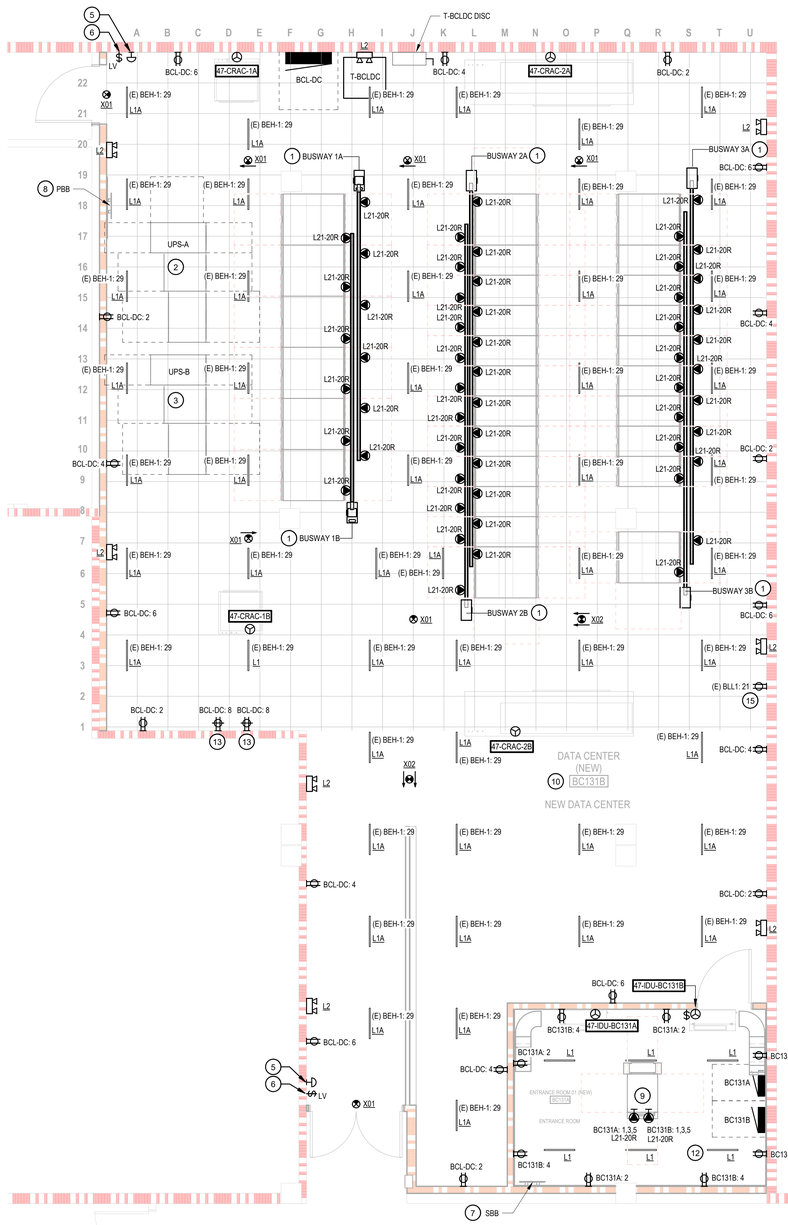


1 ELECTRICAL DATA CENTER PLAN
1/8" = 1'-0"



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

SHEET NOTES:

1. PROVIDE OVERHEAD POWER BUSWAY WITH METERED POWER FEED END UNIT. PROVIDE PLUG TAP CONNECTIONS WITH NEMA L21-20R TWIST LOCKING RECEPTACLE DROP CORD, AT EACH SERVER RACK AND NETWORK CABINET LOCATION. MOUNT AT 9'-0" AFF AND COORDINATE WITH OTHER TRADES EQUIPMENT PRIOR TO FINAL INSTALLATION. REFER TO SHEETS 00-E001 AND 47-E615 FOR POWER EQUIPMENT SCHEDULE AND BUSWAY SCHEDULE FOR ADDITIONAL INFORMATION.
2. PROVIDE NEW FREESTANDING 140KW UPS SYSTEM BUILT OUT TO 120KVA/KW CAPACITY USING SIX (6) 20KVA UPS MODULES TO SUPPORT THE DESIGN LOAD OF THE DATA CENTER. PROVIDE ASSOCIATED BYPASS CABINET, BATTERY CABINET AND STRINGS, AND OUTPUT DISTRIBUTION CABINET. REFER TO ONE-LINE DIAGRAM ON SHEET 47-EP602. REFER TO POWER EQUIPMENT SCHEDULE ON SHEET 00-E001 FOR UPS EQUIPMENT INFORMATION.
3. RELOCATE EXISTING 140KW UPS SYSTEM FROM EXISTING DATA CENTER, INCLUDING ALL UPS, BATTERY, AND DISTRIBUTION CABINETS. INSTALL NEW OUTPUT DISTRIBUTION SECTION SUPPORTING SUBFEED BREAKERS. REFER TO ONE-LINE DIAGRAM. CONNECT B-SIDE BUSWAY UNITS TO OUTPUT SUBFEED BREAKERS.
4. NOT USED.
5. EMERGENCY SHUT OFF SWITCH TO SHUTDOWN POWER TO ROOM EQUIPMENT. REFER TO DETAIL 2/00-E-503 FOR MORE INFORMATION.
6. PROVIDE LOW VOLTAGE ON/OFF/RETURN TO CENTER MOMENTARY CONTACT SWITCH TO CONTROL LIGHITNG IN ROOM. PROVIDE POWER PACKS AS REQUIRED.
7. BOND EACH RACK BONDING BUSBAR (RBB) TO THE SBB. SBB SHALL BE BONDED BACK TO THE BUILDING PBB IN THE DATA CENTER. REFER TO GROUNDING AND BONDING DETAIL(S) ON SHEETS 47-TN608 AND 47-TN609 FOR FURTHER DETAILS.
8. BOND ALL SERVER CABINET RACK BONDING BUSBAR (RBB) TO THE PBB. CONTRACTOR SHALL LOCATE THE BUILDING MAIN GROUND BAR AND BOND THE PBB BACK TO IT. REFER TO GROUNDING AND BONDING DETAIL(S) ON SHEETS 47-TN608 AND 47-TN609 FOR FURTHER DETAILS.
9. PROVIDE TWO (2) NEMA L21-20R TWIST LOCKING RECEPTACLES FOR RACK POWER. MOUNT TO CABLE TRAY ABOVE RACK IN AN ACCESSIBLE LOCATION. COORDINATE FINAL INSTALLATION WITH TELECOM EQUIPMENT. REFER TO TELECOM PLANS.
10. PROVIDE NEW LIGHTING AND CONTROLS WITHIN THE DATA CENTER. MOUNT NEW FIXTURES AT 8'-6" AFF, COORDINATE MOUNTING HEIGHT WITH ALL OTHER TRADES TO ENSURE LIGHTS ARE MOUNTED BELOW ALL OBSTRUCTIONS.
11. CONTRACTOR TO PROVIDE OUTDOOR WEATHERPROOF, GFCI RECEPTACLE, OR FIELD-VERIFY A RECEPTACLE EXISTS WITHIN 25 FEET OF ALL NEW OUTDOOR MECHANICAL UNITS. CIRCUIT NEW RECEPTACLES TO NEAREST EXISTING RECEPTACLE CIRCUIT.
12. CIRCUIT NEW LIGHT FIXTURES AND CONTROLS TO EXISTING LIGHTING CIRCUIT SERVING THE ROOM. CONTRACTOR SHALL FIELD-VERIFY EXISTING CIRCUIT IS SUPPLIED VIA GENERATOR-BACKED PANEL.
13. QUAD OUTLET DEDICATED FOR SECURITY HEADEND EQUIPMENT. VERIFY FINAL LOCATION AND MOUNTING HEIGHT WITH VENDOR.
14. PROVIDE WEATHERPROOF, GFCI RECEPTACLE WITHIN 6FT OF CONDENSATE PUMP LOCATED IN CRAWL SPACE. COORDINATE WITH MECHANICAL FOR FINAL LOCATION. PROVIDE NEW 20A, 120V, 1P CIRCUIT FROM EXISTING PANEL BC11, OR NEAREST AVAILABLE 120V, GENERATOR-BACKED PANEL. CP-1 AND CP-2 MAY BE WIRED TOGETHER ON A SINGLE CIRCUIT. REFER TO MECHANICAL EQUIPMENT SCHEDULE FOR FURTHER INFO.
15. PROVIDE DEDICATED RECEPTACLE WITHIN 3FT OF AIR-SAMPLING SMOKE DETECTOR POWER SUPPLY. COORDINATE WITH FIRE PROTECTION FOR FINAL EQUIPMENT LOCATION. REFER TO FIRE PROTECTION DRAWINGS. CIRCUIT TO LIFE SAFETY PANEL BLL1; DATA CENTER EPO SHALL NOT CUT POWER TO THE SMOKE DETECTOR EQUIPMENT.
16. PROVIDE DEDICATED 120V, 20A CIRCUIT FOR CLEAN AGENT RELEASING PANEL. COORDINATE WITH FIRE PROTECTION FOR FINAL EQUIPMENT LOCATION AND POWER REQUIREMENTS. REFER TO FIRE PROTECTION DRAWINGS. CIRCUIT TO LIFE SAFETY PANEL BLL1.

GENERAL NOTES:

1. REFER TO 00-E001 FOR GENERAL NOTES, LUMINAIRE SCHEDULE, AND POWER EQUIPMENT SCHEDULE. PROVIDE UPS AND PDU EQUIPMENT IN EACH RACK AND CABINET AS SPECIFIED FOR DATA CENTER AND ENTRANCE ROOMS.
2. REFER TO 47-EP601 FOR BUILDING ONE-LINES, PANEL SCHEDULES, AND EQUIPMENT SCHEDULE.
3. REFER TO TELECOM DRAWINGS FOR DATA CENTER RACK LAYOUTS.
4. REFER TO 00-E502, DETAILS 2 & 5 FOR TYPICAL EQUIPMENT ELEVATION FOR ENTRANCE ROOM INSTALLATIONS. INSTALL, CONNECT, AND ENERGIZE RACK POWER EQUIPMENT AS SPECIFIED.
5. REFER TO 00-E503, DETAIL 1 FOR TYPICAL EQUIPMENT ELEVATION FOR SERVER CABINETS WITHIN THE DATA CENTER. INSTALL, CONNECT, AND ENERGIZE RACK POWER EQUIPMENT AS SPECIFIED.
6. COORDINATE OVERHEAD BUSWAY INSTALLATION WITH CABLE TRAY AND MECHANICAL DUCTWORK. REFER TO BUSWAY SCHEDULE ON SHEET 47-EP610 FOR MORE INFORMATION.
7. COORDINATE LIGHTING LAYOUT WITH FINAL EQUIPMENT LAYOUT AND OTHER TRADES. ENSURE FIXTURES ARE MOUNTED BELOW ALL DUCTWORK, CABLE TRAY, ELECTRICAL CONDUIT & BUSWAYS, ETC.
8. PROVIDE UNSWITCHED PHASE CONDUCTOR FROM CIRCUIT SERVING LOCAL SWITCH GROUP TO ALL WALL MOUNTED TYPE "L2" FIXTURES, AND EXIT SIGNS.
9. GRID LINES SHOWN IN DATA CENTER DEPICT DATA CENTER COORDINATE SCHEME. GRID LINES DO NOT DEPICT CEILING GRIDS OR CEILING TILES. REFER TO ARCHITECTURAL DRAWINGS.
10. CONTRACTOR SHALL COORDINATE FINAL PANEL LOCATIONS INSIDE ENTRANCE ROOMS WITH TELECOM TO ENSURE OVERHEAD CLEARANCE IS PROVIDED PER NEC 110.26(E), AND THAT CABLE TRAY IS NOT ROUTED DIRECTLY ABOVE THE PANEL.

PARTITION LEGEND

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

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

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

PLAN NORTH N

Revisions:	Date:

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
ELECTRICAL ENLARGED PLAN - DATA CENTER	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-EP401
		Issue Date: 12.19.2025 / Checked / Drawn	SHEET 392 of 559

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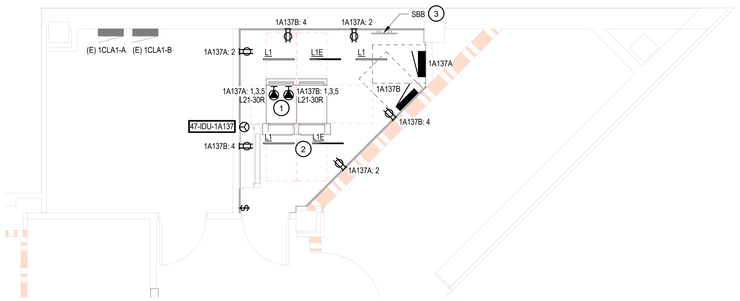
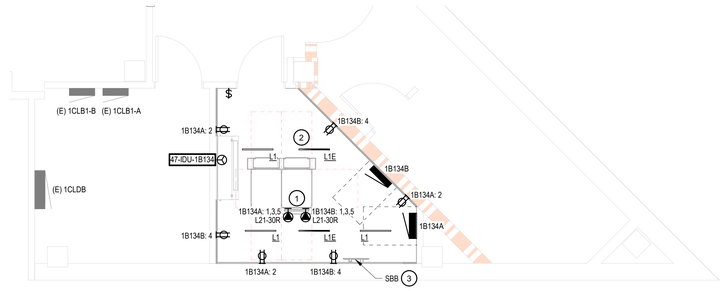


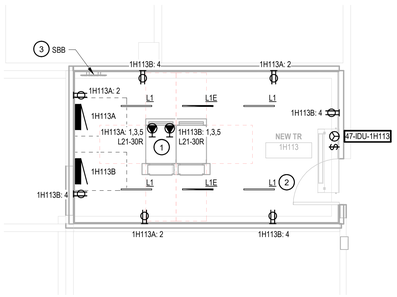
1 1A136 - ELECTRICAL PLAN

1/4" = 1'-0"



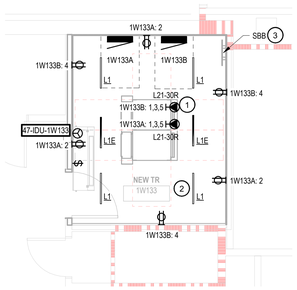
2 1B134 - ELECTRICAL PLAN

1/4" = 1'-0"



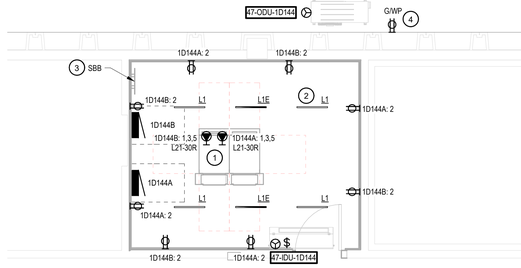
3 1H113 - ELECTRICAL PLAN

1/4" = 1'-0"



4 1W133 - ELECTRICAL PLAN

1/4" = 1'-0"



5 1D144 - ELECTRICAL PLAN

1/4" = 1'-0"

SHEET NOTES:

1. PROVIDE TWO (2) NEMA L21-30R TWIST LOCKING RECEPTACLES FOR RACK POWER. MOUNT TO CABLE TRAY ABOVE RACK IN AN ACCESSIBLE LOCATION. COORDINATE FINAL INSTALLATION WITH TELECOM EQUIPMENT. REFER TO TELECOM PLANS.
2. CIRCUIT NEW LIGHT FIXTURES AND CONTROLS TO EXISTING LIGHTING CIRCUIT SERVING THE ROOM.
3. BOND EACH RACK BONDING BUSBAR (RBB) TO THE SBB. SBB SHALL BE BONDED BACK TO THE BUILDING PBB IN THE DATA CENTER. REFER TO GROUNDING AND BONDING DETAIL(S) ON SHEETS 47-TN608 AND 47-TN609 FOR FURTHER DETAILS.
4. IF NO EXTERIOR RECEPTACLE EXISTS WITHIN 25 FT OF NEW OUTDOOR MECHANICAL EQUIPMENT, CONTRACTOR SHALL PROVIDE NEW GFCI, WEATHERPROOF RECEPTACLE. CIRCUIT NEW RECEPTACLE TO NEAREST EXISTING 120V CONV. RECEPTACLE CIRCUIT.

GENERAL NOTES:

1. REFER TO 00-E001 FOR GENERAL NOTES, LUMINAIRE SCHEDULE, AND POWER EQUIPMENT SCHEDULE. PROVIDE UPS AND PDU EQUIPMENT IN EACH RACK AS SPECIFIED.
2. REFER TO 47-EP601 FOR BUILDING ONE-LINES, PANEL SCHEDULES, AND EQUIPMENT SCHEDULE.
3. REFER TO TELECOM DRAWINGS FOR EQUIPMENT AND TELECOM RACK LAYOUTS.
4. ELECTRICAL PANEL LOCATIONS SHOWN FOR REFERENCE ONLY. ALL PANELS OUTSIDE OF TR'S ARE EXISTING TO REMAIN.
5. REFER TO 00-E501, DETAILS 2 & 5 FOR TYPICAL EQUIPMENT ELEVATION FOR TWO-RACK TR INSTALLATIONS. INSTALL, CONNECT, AND ENERGIZE RACK POWER EQUIPMENT AS SPECIFIED.
6. PROVIDE UNSWITCHED PHASE CONDUCTOR FROM CIRCUIT SERVING LOCAL SWITCH GROUP TO ALL WALL MOUNTED "L1E" FIXTURE TYPES.
7. CONTRACTOR SHALL COORDINATE FINAL PANEL LOCATIONS INSIDE TR'S WITH TELECOM TO ENSURE OVERHEAD CLEARANCE IS PROVIDED PER NEC 110.26(E), AND THAT CABLE TRAY IS NOT ROUTED DIRECTLY ABOVE THE PANEL.

PARTITION LEGEND

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

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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12/18/2025

Facilities Management Services

VA U.S. Department of Veterans Affairs

Drawing Title	Phase	Project Title	Project Number
ELECTRICAL ENLARGED 1ST FLOOR PLANS	FINAL BID DOCUMENTS	EHRM INFRASTRUCTURE UPGRADES	637-22-700
			Building Number: BLDG 47
Approved:		Location: 1100 TUNNEL ROAD ASHEVILLE, NC 28805	Drawing Number: 47-EP402
FOR OFFICIAL USE ONLY		Issue Date: 12.19.2025 / Checked / Drawn	SHEET 393 of 559

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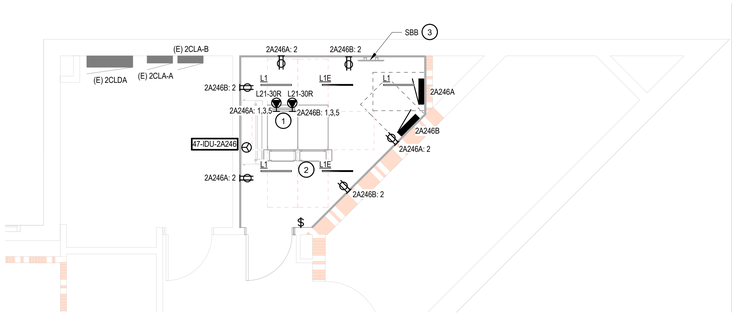
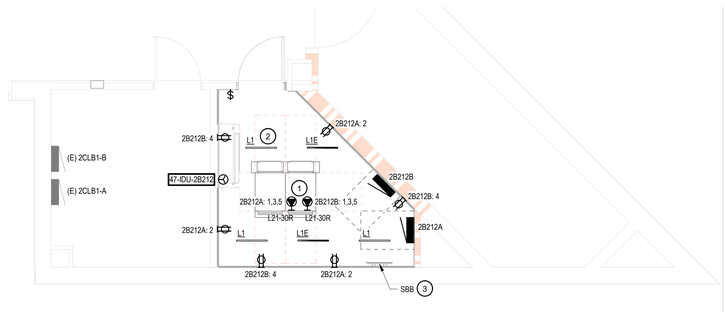
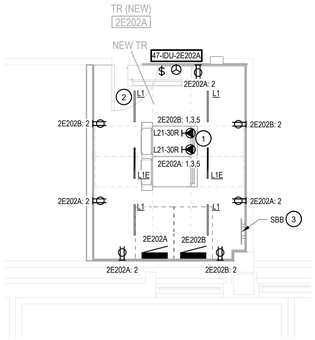


1 2A246 - ELECTRICAL PLAN
1/4" = 1'-0"



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



3 2E202A - ELECTRICAL PLAN
1/4" = 1'-0"

SHEET NOTES:

1. PROVIDE TWO (2) NEMA L21-30R TWIST LOCKING RECEPTACLES FOR RACK POWER. MOUNT TO CABLE TRAY ABOVE RACK IN AN ACCESSIBLE LOCATION. COORDINATE FINAL INSTALLATION WITH TELECOM EQUIPMENT. REFER TO TELECOM PLANS.
2. CIRCUIT NEW LIGHT FIXTURES AND CONTROLS TO EXISTING LIGHTING CIRCUIT SERVING THE ROOM. REFER TO PANEL SCHEDULES.
3. BOND EACH RACK BONDING BUSBAR (RBB) TO THE SBB. SBB SHALL BE BONDED BACK TO THE BUILDING PBB IN THE DATA CENTER. REFER TO GROUNDING AND BONDING DETAIL(S) ON SHEETS 47-TN608 AND 47-TN609 FOR FURTHER DETAILS.

GENERAL NOTES:

1. REFER TO 00-E001 FOR GENERAL NOTES, LUMINAIRE SCHEDULE, AND POWER EQUIPMENT SCHEDULE. PROVIDE UPS AND PDU EQUIPMENT IN EACH RACK AS SPECIFIED.
2. REFER TO 47-EP601 FOR BUILDING ONE-LINES, PANEL SCHEDULES, AND EQUIPMENT SCHEDULE.
3. REFER TO TELECOM DRAWINGS FOR EQUIPMENT AND TELECOM RACK LAYOUTS.
4. ELECTRICAL PANEL LOCATIONS SHOWN FOR REFERENCE ONLY. ALL PANELS OUTSIDE OF TR'S ARE EXISTING TO REMAIN.
5. REFER TO 00-E501, DETAILS 2 & 5 FOR TYPICAL EQUIPMENT ELEVATION FOR TWO-RACK TR INSTALLATIONS. INSTALL, CONNECT, AND ENERGIZE RACK POWER EQUIPMENT AS SPECIFIED.
6. PROVIDE UNSWITCHED PHASE CONDUCTOR FROM CIRCUIT SERVING LOCAL SWITCH GROUP TO ALL WALL MOUNTED "L1E" FIXTURE TYPES.
7. CONTRACTOR SHALL COORDINATE FINAL PANEL LOCATIONS INSIDE TR'S WITH TELECOM TO ENSURE OVERHEAD CLEARANCE IS PROVIDED PER NEC 110.26(E), AND THAT CABLE TRAY IS NOT ROUTED DIRECTLY ABOVE THE PANEL.

PARTITION LEGEND

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

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: ELECTRICAL ENLARGED 2ND FLOOR PLANS

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-EP403

SHEET 394 of 559

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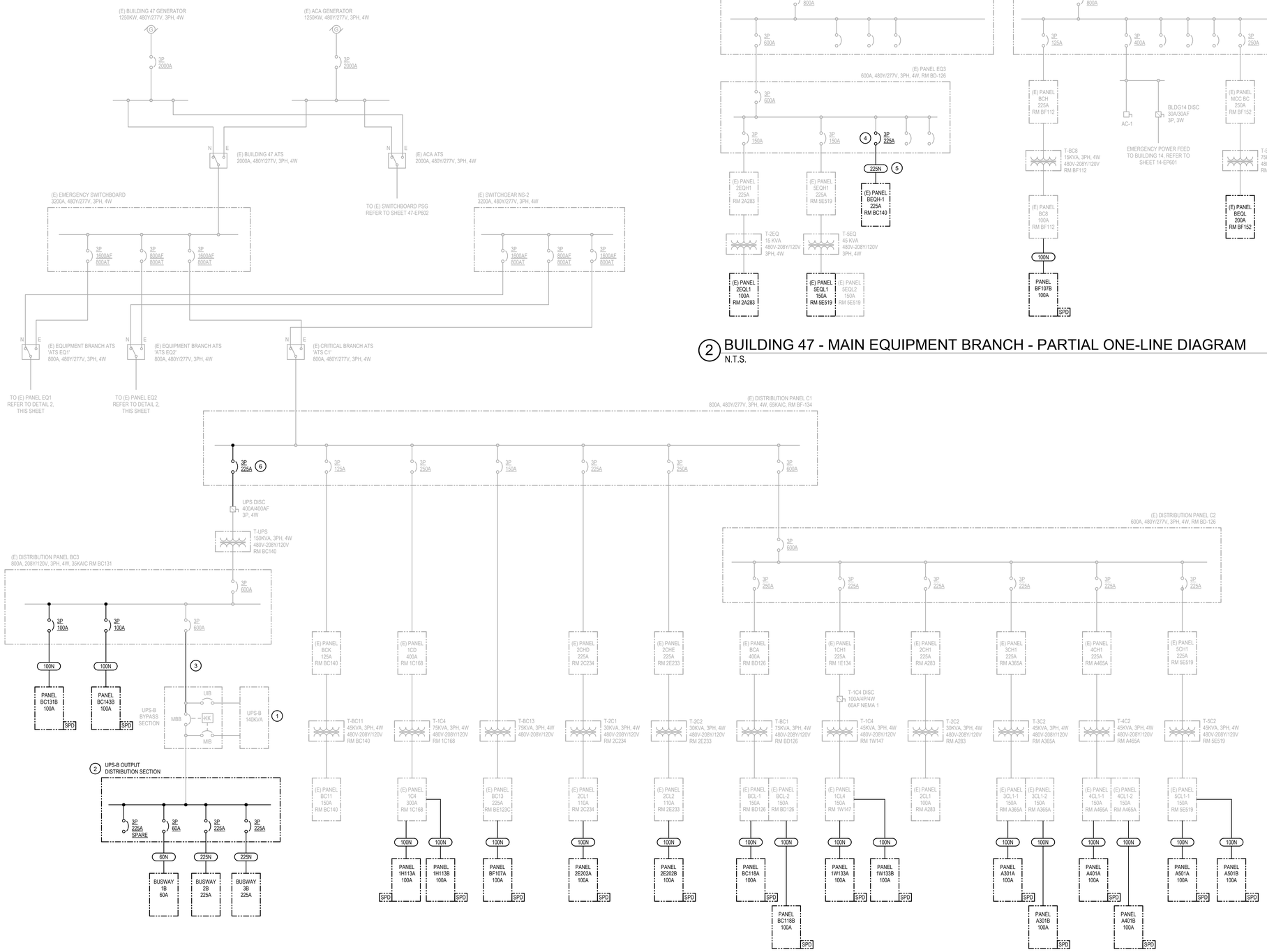
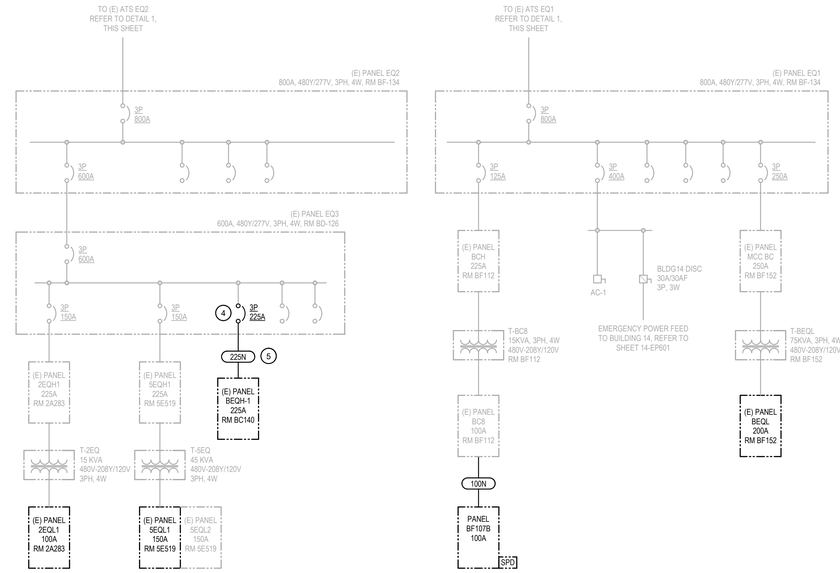


1 BUILDING 47 - MAIN CRITICAL BRANCH - PARTIAL ONE-LINE DIAGRAM
N.T.S.



2 BUILDING 47 - MAIN EQUIPMENT BRANCH - PARTIAL ONE-LINE DIAGRAM
N.T.S.

SHEET NOTES:

1. "UPS-B" IS THE RELOCATED, EXISTING XTREME POWER CONVERSION MODEL M90U-140, 140KVA UPS SYSTEM FROM THE OLD DATA CENTER, INCLUDING ATTACHED MAINTENANCE BYPASS CABINET AND OUTPUT DISTRIBUTION. THE UPS HAS A MAX CAPACITY OF 140KVA, AND IS BUILT OUT TO 120KVA USING (6) 20KVA MODULES. CONTRACTOR SHALL INTERCONNECT THE UPS BREAKER WITH NEW DATA CENTER EPO SYSTEM. REFER TO DETAIL 3/00-E502 FOR EPO CONNECTION DIAGRAM. REFER TO SHEET 47-EP401 FOR NEW DATA CENTER LAYOUT.
2. PROVIDE NEW OUTPUT DISTRIBUTION SECTION FOR UPS-B. CONFIGURATION SHOULD ALLOW FOR QUANTITY OF SUBFEED BREAKERS AS SPECIFIED TO SUPPLY THE BUSWAYS. REFER TO UPS-B OUTPUT PANEL SCHEDULE.
3. RE-ROUTE FEEDER FROM EXISTING PANEL BC3 TO NEW LOCATION OF UPS-B. REFER TO SHEET 47-EP401 FOR NEW DATA CENTER LAYOUT.
4. PROVIDE NEW 225A BREAKER IN EXISTING PANEL EQ3. THE NEW BREAKER SHALL MATCH THE EXISTING MANUFACTURER AND AIC RATING OF THE PANEL AND MAINTAIN ITS UL RATING. THE EXISTING LOAD ON PANEL EQ3 IS UNKNOWN. CONTRACTOR SHALL PERFORM 30-DAY LOAD METERING AS REQUIRED PER NEC 220.87 PRIOR TO ADDING NEW LOADS TO THIS PANEL.
5. PROVIDE NEW 225A FEEDER WIRING AND CONDUIT FROM PANEL EQ3 TO PANEL BEQH-1. DEMOLISH EXISTING 150A FEEDER WIRING AND CONDUIT FROM PANEL BEQH-1 BACK TO PANEL EQ3. CONTRACTOR SHALL INSTALL AND CONNECT BEQH-1 TO NEW FEEDER PRIOR TO DEMOLITION OF EXISTING FEEDER TO MINIMIZE DOWNTIME OF EQUIPMENT ON BEQH-1. REFER TO SHEETS 47-ED401 AND 47-EP401 FOR ADDITIONAL INFORMATION.
6. CONTRACTOR MUST FIELD-VERIFY THE SOURCE OF SUPPLY FOR EXISTING DATA CENTER UPS PANEL. IF PANEL FEEDER IS NOT SOURCED FROM PANEL C1, CONTRACTOR SHALL PROVIDE NEW BREAKER ON PANEL C1 AND INTERCEPT EXISTING FEEDER SO THAT THE "UPS-B" IS POWERED VIA PANEL C1. IF A NEW BREAKER MUST BE PROVIDED ON PANEL C1, THE BREAKER SHALL MATCH THE EXISTING MANUFACTURER AND AIC RATING OF THE PANEL AND MAINTAIN ITS UL RATING.

GENERAL NOTES:

1. REFER TO 00-E001 FOR GENERAL NOTES AND LEGENDS.
2. REFER TO PANEL SCHEDULES FOR SPECIFIC PANEL INFORMATION.
3. PANELS AND OTHER INFRASTRUCTURE SHOWN IN LIGHT LINE WEIGHT IS EXISTING TO REMAIN, UON.
4. PANELS AND OTHER INFRASTRUCTURE SHOWN IN BOLD IS NEW WORK, UON.

COPPER FEEDER SCHEDULE

TAG	OCPD (A)	AMPACITY (A)	CONDUIT SIZE	CONDUCTOR SIZE	KEYED NOTES
60N	60	70	1-1/4"	3#4, 1#3 N, 1#10 G	1
100N	100	110	1-1/2"	3#1, 1#1/0 N, 1#8 G	1
225A	225	230	2"	3#4/0, 1#4 G	
225N	225	230	2-1/2"	3#4/0, (1) 250KCMIL N, 1#4 G	1
500N	500	510	(2) 2-1/2"	TWO SETS - (3) 250KCMIL, (1) 300KCMIL N, 1#2 G	1
600T	600	620	(2) 3"	TWO SETS - (3) 350KCMIL, (1) 400KCMIL N, 1#2/0 G	1

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

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

Revisions: | Date:

ARCHITECT/ENGINEER OF RECORD

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Facilities Management Services

VA U.S. Department of Veterans Affairs

Drawing Title: ONE-LINE DIAGRAMS
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-EP601
SHEET 395 of 559

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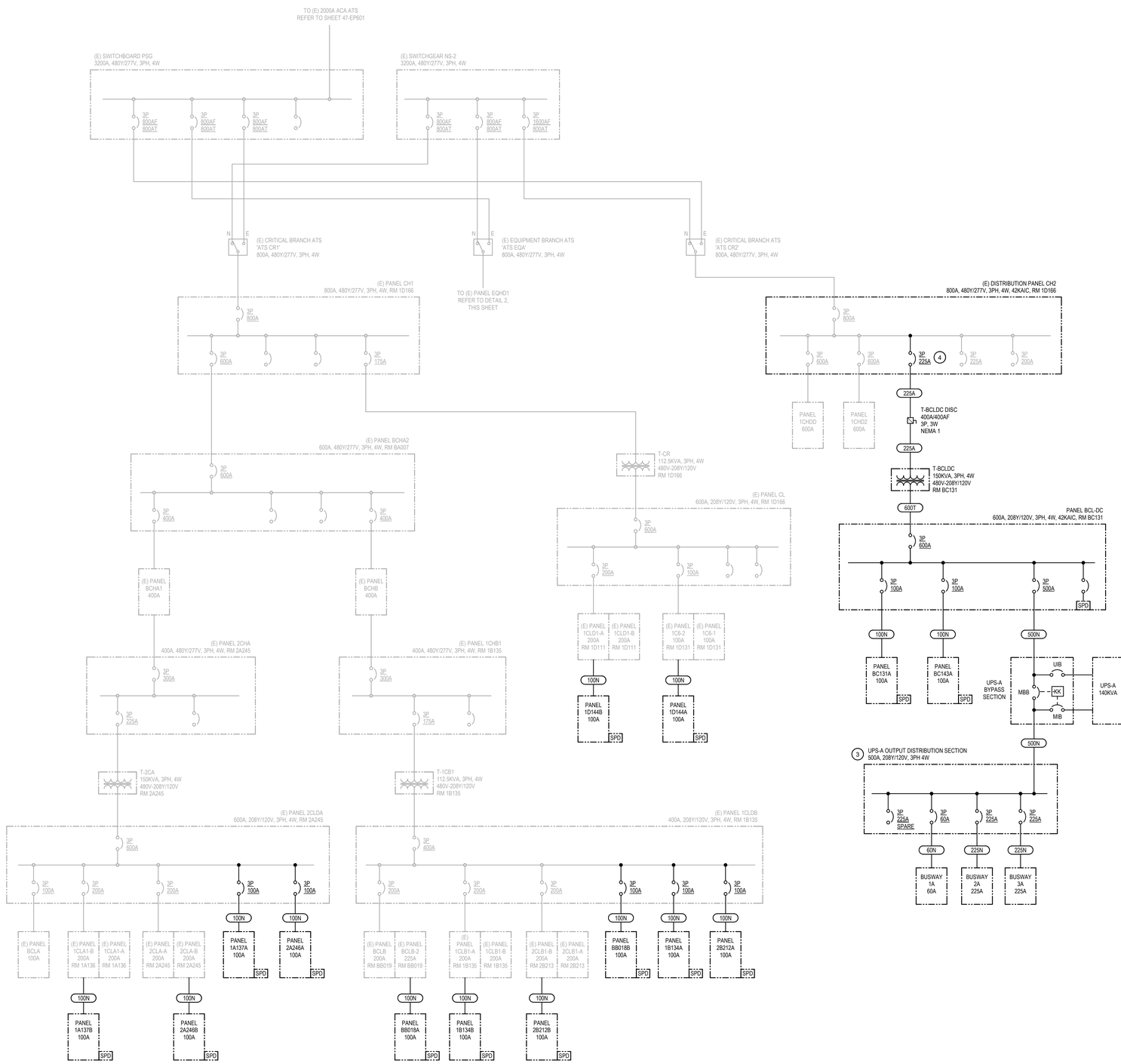
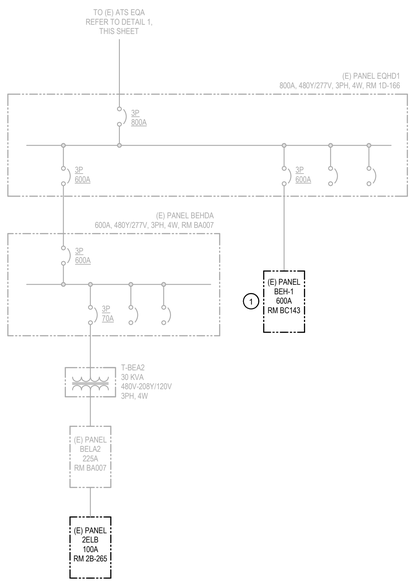


1 BUILDING 47 - ACA CRITICAL BRANCH - MAIN ONE-LINE DIAGRAM
N.T.S.



2 BUILDING 47 - ACA EQUIPMENT BRANCH - PARTIAL ONE-LINE DIAGRAM
N.T.S.

SHEET NOTES:

1. EXISTING PANEL BEH-1 LOCATED IN THE BC-143 CORRIDOR TO BE REUSED FOR DATA CENTER MECHANICAL AND LIGHTING LOADS. REFER TO PANEL SCHEDULE AND DATA CENTER DEMO PLANS.
2. "UPS-A" SHALL BE A NEW, COMPLETE UPS SYSTEM OF LIKE KIND AS "UPS-B", INCLUDING UPS CABINET, BATTERY CABINET, AND MAINTENANCE BYPASS SECTION. REFER TO 47-EP601 FOR "UPS-B" ONE-LINE. REFER TO 00-E001 FOR EQUIPMENT LIST. REFER TO 47-EP401 FOR NEW DATA CENTER LAYOUT.
3. PROVIDE SUBFEED BREAKER OUTPUT DISTRIBUTION SECTION FOR "UPS-A". REFER TO UPS-A OUTPUT PANEL SCHEDULE.
4. NEW BREAKER SHALL BE SHUNT-TRIP TYPE. REFER TO DETAIL 2, SHEET 00-E503 FOR EPO SYSTEM WIRING DIAGRAM.

GENERAL NOTES:

1. REFER TO 00-E001 FOR GENERAL NOTES AND LEGENDS. REFER TO PANEL SCHEDULES FOR ADDITIONAL PANEL INFORMATION.
2. PANELS AND OTHER INFRASTRUCTURE SHOWN IN LIGHT LINE WEIGHT IS EXISTING TO REMAIN, UON.
3. PANELS AND OTHER INFRASTRUCTURE SHOWN IN BOLD IS NEW WORK, UON.
4. PROVIDE ALL NEW PANELBOARDS WITH INTEGRAL TYPE 2 SURGE PROTECTIVE DEVICE.

COPPER FEEDER SCHEDULE

TAG	OCPD (A)	AMPACITY (A)	CONDUIT SIZE	CONDUCTOR SIZE	KEYED NOTES
60N	60	70	1-1/4"	3#4, 1#3 N, 1#10 G	1
100N	100	110	1-1/2"	3#1, 1#1/0 N, 1#8 G	1
225A	225	230	2"	3#4/0, 1#4 G	
225N	225	230	2-1/2"	3#4/0, (1) 250KCMIL N, 1#4 G	1
500N	500	510	(2) 2-1/2"	TWO SETS - (3) 250KCMIL, (1) 300KCMIL N, 1#2 G	1
600T	600	620	(2) 3"	TWO SETS - (3) 350KCMIL, (1) 400KCMIL N, 1#2/0 G	1

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

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

Revisions: | Date:

ARCHITECT/ENGINEER OF RECORD

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Facilities Management Services

VA U.S. Department of Veterans Affairs

Drawing Title: ONE-LINE DIAGRAMS
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-EP602

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Branch Panel: (E) C1

Location: SWITCHGEAR BF134 | **Volts:** 480/277 Wye | **A.I.C. Rating:** 65000
Supply From: | **Phases:** 3 | **Mains Type:** MLO
Mounting: SURFACE | **Wires:** 4 | **Mains Rating:** 800 A
Enclosure: Type 1

CKT	Circuit Description	Trip	Poles	Notes	A		B		C		Notes	Poles	Trip	Circuit Description	CKT
1	T-UPS	225 A	3		40000	0						3	400 A	(E) DV1 CV LAB	2
3	--	--	--	--			41260	0			--	--	--	--	4
5	--	--	--	--					40000	0	--	--	--	--	6
7	(E) STAT X-RAY	250 A	3		0	0						3	250 A	SPARE	8
9	--	--	--	--			0	0			--	--	--	--	10
11	--	--	--	--					0	0	--	--	--	--	12
13	(E) PANEL BCK	250 A	3		0	0						3	250 A	(E) XRAY REPEDO RM 1D160	14
15	--	--	--	--			0	0			--	--	--	--	16
17	--	--	--	--					0	0	--	--	--	--	18
19	SPARE	70 A	3		0	0						3	70 A	SPARE	20
21	--	--	--	--			0	0			--	--	--	--	22
23	--	--	--	--					0	0	--	--	--	--	24
25	SPARE	70 A	3		0	0						3	30 A	SPARE	26
27	--	--	--	--			0	0			--	--	--	--	28
29	--	--	--	--					0	0	--	--	--	--	30
31	(E) PANEL 2CHE	250 A	3		0	0						3	250 A	(E) PANEL 1CD	32
33	--	--	--	--			0	0			--	--	--	--	34
35	--	--	--	--					0	0	--	--	--	--	36
37	(E) PANEL 2CHD	225 A	3		0	--						3	--	SPACE	38
39	--	--	--	--			0	--			--	--	--	--	40
41	--	--	--	--					0	--	--	--	--	--	42
43	(E) PANEL SCL	45 A	3		0	0						3	150 A	(E) PANEL BC13	44
45	--	--	--	--			0	0			--	--	--	--	46
47	--	--	--	--					0	0	--	--	--	--	48
49	(E) PANEL C2	600 A	3		0	--						3	--	--	50
51	--	--	--	--			0	--			--	--	--	--	52
53	--	--	--	--					0	--	--	--	--	--	54
				Total Conn. Load:	40000 VA		41260 VA		40000 VA						
				Total Amps:	144 A		149 A		144 A						

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
REC,	1260 VA	100.00%	1260 VA		
Telecommunications Equipment	15000 VA	50.00%	7500 VA	**Total Conn. Load:**	121260 VA
Data Center Cabinet	105000 VA	50.00%	52500 VA	**Total Est. Demand:**	61260 VA
				Total Conn. Current:	146 A
				Total Est. Demand Current:	74 A

Notes:

Branch Panel: (E) BC3

Location: TR (DECOMMISSIONED) BC143 | **Volts:** 120/208 Wye | **A.I.C. Rating:** 35000
Supply From: T-UPS | **Phases:** 3 | **Mains Type:** MCB
Mounting: SURFACE | **Wires:** 4 | **Mains Rating:** 800 A
Enclosure: Type 1 | **MCB Rating:** 600 A

CKT	Circuit Description	Trip	Poles	Notes	A		B		C		Notes	Poles	Trip	Circuit Description	CKT
1	MAIN (OFF)	600 A	3		0	0						2	20 A	SPARE	2
3	--	--	--	--			0	0			--	--	--	--	4
5	--	--	--	--					0	0		2	20 A	SPARE	6
7	UPS-B	600 A	3	1	35000	0					--	--	--	--	8
9	--	--	--	--			35000	0				2	20 A	SPARE	10
11	--	--	--	--					35000	0	--	--	--	--	12
13	SPARE	20 A	2		0	0						2	20 A	SPARE	14
15	--	--	--	--			0	0			--	--	--	--	16
17	SPARE	20 A	2						0	0		2	20 A	SPARE	18
19	--	--	--	--	0	0					--	--	--	--	20
21	SPARE	20 A	2				0	0				2	20 A	SPARE	22
23	--	--	--	--					0	0	--	--	--	--	24
25	SPARE	20 A	2		0	1667					2	3	100 A	PANEL BC131B	26
27	--	--	--	--			0	2387			--	--	--	--	28
29	SPARE	20 A	2						0	1667	--	--	--	--	30
31	--	--	--	--	0	3333					2	3	100 A	PANEL BC143B	32
33	SPARE	20 A	2				0	3873			--	--	--	--	34
35	--	--	--	--					0	3333	--	--	--	--	36
37	SPACE	--	1		--	--						1	--	SPACE	38
39	SPACE	--	1				--	--				1	--	SPACE	40
41	SPACE	--	1						--	--		1	--	SPACE	42
				Total Conn. Load:	40000 VA		41260 VA		40000 VA						
				Total Amps:	333 A		344 A		333 A						

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
REC,	1260 VA	100.00%	1260 VA		
Telecommunications Equipment	15000 VA	50.00%	7500 VA	**Total Conn. Load:**	121260 VA
Data Center Cabinet	105000 VA	50.00%	52500 VA	**Total Est. Demand:**	61260 VA
				Total Conn. Current:	337 A
				Total Est. Demand Current:	170 A

Notes:
1. CONTRACTOR SHALL PROVIDE SHUNT TRIP MECHANISM FOR EXISTING UPS BRANCH BREAKER, OR PROVIDE NEW SHUNT TRIP TYPE BREAKER. BREAKER TO BE CONTROLLED BY LOCAL DATA CENTER EPO SWITCH. REFER TO SHEET 47-EP401 FOR DATA CENTER PLANS, AND SHEET 00-E503 FOR EPO WIRING DIAGRAM.
2. PROVIDE NEW BREAKER, WHICH SHALL MATCH THE EXISTING PANEL MANUFACTURER AND AIC RATING, AND MANTAIN EXISTING PANEL UL RATING.

Branch Panel: (E) CH2

Location: SWITCHGEAR 1C293 | **Volts:** 480/277 Wye | **A.I.C. Rating:** 42000
Supply From: | **Phases:** 3 | **Mains Type:** MCB
Mounting: SURFACE | **Wires:** 4 | **Mains Rating:** 800 A
Enclosure: Type 1 | **MCB Rating:** 800 A

CKT	Circuit Description	Trip	Poles	Notes	A		B		C		Notes	Poles	Trip	Circuit Description	CKT
1	SPARE	100 A	3		0	--						3	--	SPACE	2
3	--	--	--	--			0	--			--	--	--	--	4
5	--	--	--	--					0	--	--	--	--	--	6
7	SPARE	100 A	3		0	0						3	100 A	SPARE	8
9	--	--	--	--			0	0			--	--	--	--	10
11	--	--	--	--					0	0	--	--	--	--	12
13	SPACE	--	3		--	--						3	--	SPACE	14
15	--	--	--	--			--	--			--	--	--	--	16
17	--	--	--	--					--	--	--	--	--	--	18
19	SPACE	--	3		--	43060						1, 2	3	225 A	T-BCLDC	20
21	--	--	--	--			--	41080			--	--	--	--	22
23	--	--	--	--					--	41080	--	--	--	--	24
25	(E) BOILER PLANT BLDG	225 A	3		0	0						3	200 A	SPARE	26
27	--	--	--	--			0	0			--	--	--	--	28
29	--	--	--	--					0	0	--	--	--	--	30
31	(E) PANEL 1CHD2	600 A	3		0	0						3	600 A	(E) PANEL 1CHDD	32
33	--	--	--	--			0	0			--	--	--	--	34
35	--	--	--	--					0	0	--	--	--	--	36
37	MAIN BREAKER	--	3		--	--						3	--	MAIN BREAKER	38
39	--	--	--	--			--	--			--	--	--	--	40
41	--	--	--	--					--	--	--	--	--	--	42
				Total Conn. Load:	43060 VA		41080 VA		41080 VA						
				Total Amps:	155 A		148 A		148 A						

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
REC,	5220 VA	100.00%	5220 VA		
Telecommunications Equipment	15000 VA	50.00%	7500 VA	**Total Conn. Load:**	125220 VA
Data Center Cabinet	105000 VA	50.00%	52500 VA	**Total Est. Demand:**	65220 VA
				Total Conn. Current:	151 A
				Total Est. Demand Current:	78 A

Notes:
1. PROVIDE NEW BREAKER, WHICH SHALL MATCH THE EXISTING PANEL MANUFACTURE AND AIC RATING, AND MANTAIN EXISTING PANEL UL RATING.
2. NEW BREAKER SHALL BE SHUNT TRIP TYPE. REFER TO 00-E503 FOR EPO WIRING DIAGRAM.

Branch Panel: BCL-DC

Location: DATA CENTER (NEW) BC131B | **Volts:** 120/208 Wye | **A.I.C. Rating:** 42000
Supply From: T-BCLDC | **Phases:** 3 | **Mains Type:** MCB
Mounting: SURFACE | **Wires:** 4 | **Mains Rating:** 600 A
Enclosure: Type 1 | **MCB Rating:** 600 A

CKT	Circuit Description	Trip	Poles	Notes	A		B		C		Notes	Poles	Trip	Circuit Description	CKT
1	UPS-A	500 A	3		35000	1080						1	20 A	REC, DATA CENTER (NEW) BC131	2
3	--	--	--	--			35000	1080				1	20 A	REC, DATA CENTER (NEW) BC131	4
5	--	--	--	--					35000	1080		1	20 A	REC, DATA CENTER (NEW) BC131	6
7	PANEL BC131A	100 A	3		2387	720						1	20 A	REC, DATA CENTER (NEW) BC131	8
9	--	--	--	--			1667	0				1	20 A	SPARE	10
11	--	--	--	--					1667	0		1	20 A	SPARE	12
13	PANEL BC143A	100 A	3		3873	0						1	20 A	SPARE	14
15	--	--	--	--			3333	0				1	20 A	SPARE	16
17	--	--	--	--					3333	0		1	20 A	SPARE	18
19	SPARE	100 A	3		0	--						1	--	SPACE	20
21	--	--	--	--			0	--				1	--	SPACE	22
23	--	--	--	--					0	--		1	--	SPACE	24
25	SPACE	--	3		--	--						1	--	SPACE	26
27	--	--	--	--			--	--				1	--	SPACE	28
29	--	--	--	--					--	--		1	--	SPACE	30
31	SPACE	--	3		--	--						1	--	SPACE	32
33	--	--	--	--			--	--				1	--	SPACE	34
35	--	--	--	--					--	--		1	--	SPACE	36
37	SPD	30 A	3	1	0	--						1	--	SPACE	38
39	--	--	--	--			0	--				1	--	SPACE	40
41	--	--	--	--					0	--		1	--	SPACE	42
				Total Conn. Load:	43060 VA		41080 VA		41080 VA						
				Total Amps:	359 A		342 A		342 A						

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
REC,	5220 VA	100.00%	5220 VA		
Telecommunications Equipment	15000 VA	50.00%	7500 VA	**Total Conn. Load:**	125220 VA
Data Center Cabinet	105000 VA	50.00%	52500 VA	**Total Est. Demand:**	65220 VA
				Total Conn. Current:	348 A
				Total Est. Demand Current:	181 A

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

UPS: UPS-A

Location: DATA CENTER (NEW) BC131B | **Volts:** 120/208 Wye | **A.I.C. Rating:**
Supply From: BCL-DC | **Phases:** 3 | **Mains Type:** MLO
Mounting: FLOOR | **Wires:** 4 | **Bus Rating:** 500 A
Enclosure: NEMA 1

CCT NO	CIRCUIT DESCRIPTION	# of Poles	Trip Rating	Load	Remarks
1	BUSWAY 1A	3	60 A	7500 VA	
2	BUSWAY 2A	3	225 A	53750 VA	
3	BUSWAY 3A	3	225 A	43750 VA	
4	SPACE	3	--	--	
				105000 VA	
				291 A	

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Data Center Cabinet	105000 VA	50.00%	52500 VA		
				Total Conn. Load:	105000 VA
				Total Est. Demand:	52500 VA
				Total Conn. Current:	291 A
				Total Est. Demand Current:	146 A

Notes:
UPS IS SIZED TO CARRY THE ENTIRE PLANNED MAXIMUM CAPACITY OF THE DATA CENTER (CONNECTED LOAD). ACTUAL DEMAND LOADS WILL BE SHARED BETWEEN UPS-A AND UPS-B UNDER NORMAL CONDITIONS.

UPS: UPS-B

Location: DATA CENTER (NEW) BC131B | **Volts:** 120/208 Wye | **A.I.C. Rating:**
Supply From: (E) BC3 | **Phases:** 3 | **Mains Type:** MLO
Mounting: FLOOR | **Wires:** 4 | **Bus Rating:** 500 A
Enclosure: NEMA 1

CCT NO	CIRCUIT DESCRIPTION	# of Poles	Trip Rating	Load	Remarks
1	BUSWAY 1B	3	60 A	7500 VA	
2	BUSWAY 2B	3	225 A	53750 VA	
3	BUSWAY 3B	3	225 A	43750 VA	
4	SPACE	3	--	--	
				105000 VA	
				291 A	

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Data Center Cabinet	105000 VA	50.00%	52500 VA		
				Total Conn. Load:	105000 VA
				Total Est. Demand:	52500 VA
				Total Conn. Current:	291 A
				Total Est. Demand Current:	146 A

Notes:
UPS IS SIZED TO CARRY THE ENTIRE PLANNED MAXIMUM CAPACITY OF THE DATA CENTER (CONNECTED LOAD). ACTUAL DEMAND LOADS WILL BE SHARED BETWEEN UPS-A AND UPS-B UNDER NORMAL CONDITIONS.

GENERAL NOTES:

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

PANEL SCHEDULE KEY PLAN

(E) C1	(E) BC3	(E) CH2
BCLDC	(E) UPS-A	(E) UPS-B

Revisions: | **Date:**

ARCHITECT/ENGINEER OF RECORD

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12/18/2025

Facilities Management Services

VA U.S. Department of Veterans Affairs

Drawing Title: PANEL SCHEDULES
Approved:
FOR OFFICIAL USE ONLY

Phase: FINAL BID DOCUMENTS

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

Project Number: 637-22-700
Building Number: BLDG 47
Drawing Number: 47-EP603
SHEET 397 of 559

Autodesk Docs://Asheville EHRM_V23/637-22-700.047 E-ASH - EHRM.rvt
12/18/2025 5:25:23 PM
VA FORM 08 - 6231

Branch Panel: BC131A

Location: ENTRANCE ROOM 01 (NEW)...
Supply From: BCL-DC
Mounting: Surface
Enclosure: Type 1
Volts: 120/208 Wye
Phases: 3
Wires: 4
A.I.C. Rating: 10000
Mains Type: MCB
Mains Rating: 100 A
MCB Rating: 100 A

CKT	Circuit Description	Trip	Poles	Notes	A		B		C		Notes	Poles	Trip	Circuit Description	CKT
1	L21-20R, ENTRANCE ROOM BC131A	20 A	3		1667	720						1	20 A	REC, ENTRANCE ROOM (NEW) BC131A	2
3	--	--	--	--			1667	0				1	20 A	SPARE	4
5	--	--	--	--					1667	0		1	20 A	SPARE	6
7	SPARE	20 A	3		0	0						1	20 A	SPARE	8
9	--	--	--	--			0	0				1	20 A	SPARE	10
11	--	--	--	--					0	0		1	20 A	SPARE	12
13	SPARE	20 A	1		0	0						1	20 A	SPARE	14
15	SPARE	20 A	1				0	0				1	20 A	SPARE	16
17	SPARE	20 A	1						0	0		1	20 A	SPARE	18
19	SPARE	20 A	1		0	0						1	20 A	SPARE	20
21	SPARE	20 A	1				0	0				1	20 A	SPARE	22
23	SPARE	20 A	1						0	0		1	20 A	SPARE	24
25	SPD	30 A	3	1	0	0						1	20 A	SPARE	26
27	--	--	--	--			0	0				1	20 A	SPARE	28
29	--	--	--	--					0	0		1	20 A	SPARE	30
				Total Conn. Load:	2387 VA		1667 VA		1667 VA						
				Total Amps:	20 A		14 A		14 A						

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
REC,	720 VA	100.00%	720 VA		
Telecommunications Equipment	5000 VA	50.00%	2500 VA	**Total Conn. Load:**	5720 VA
				Total Est. Demand:	3220 VA
				Total Conn. Current:	16 A
				Total Est. Demand Current:	9 A

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

Branch Panel: BC131B

Location: ENTRANCE ROOM 01 (NEW)...
Supply From: (E) BC3
Mounting: Surface
Enclosure: Type 1
Volts: 120/208 Wye
Phases: 3
Wires: 4
A.I.C. Rating: 10000
Mains Type: MCB
Mains Rating: 100 A
MCB Rating: 100 A

CKT	Circuit Description	Trip	Poles	Notes	A		B		C		Notes	Poles	Trip	Circuit Description	CKT
1	L21-20R, ENTRANCE ROOM BC131A	20 A	3		1667	0						1	20 A	SPARE	2
3	--	--	--	--			1667	720				1	20 A	REC, ENTRANCE ROOM (NEW) BC131A	4
5	--	--	--	--					1667	0		1	20 A	SPARE	6
7	SPARE	20 A	3		0	0						1	20 A	SPARE	8
9	--	--	--	--			0	0				1	20 A	SPARE	10
11	--	--	--	--					0	0		1	20 A	SPARE	12
13	SPARE	20 A	1		0	0						1	20 A	SPARE	14
15	SPARE	20 A	1				0	0				1	20 A	SPARE	16
17	SPARE	20 A	1						0	0		1	20 A	SPARE	18
19	SPARE	20 A	1		0	0						1	20 A	SPARE	20
21	SPARE	20 A	1				0	0				1	20 A	SPARE	22
23	SPARE	20 A	1						0	0		1	20 A	SPARE	24
25	SPD	30 A	3	1	0	0						1	20 A	SPARE	26
27	--	--	--	--			0	0				1	20 A	SPARE	28
29	--	--	--	--					0	0		1	20 A	SPARE	30
				Total Conn. Load:	1667 VA		2387 VA		1667 VA						
				Total Amps:	14 A		20 A		14 A						

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
REC,	720 VA	100.00%	720 VA		
Telecommunications Equipment	5000 VA	50.00%	2500 VA	**Total Conn. Load:**	5720 VA
				Total Est. Demand:	3220 VA
				Total Conn. Current:	16 A
				Total Est. Demand Current:	9 A

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

Branch Panel: (E) BLL1

Location: ELECTRICAL BD125
Supply From:
Mounting: Surface
Enclosure: Type 1
Volts: 120/208 Wye
Phases: 3
Wires: 4
A.I.C. Rating: 10000
Mains Type: MCB
Mains Rating: 60 A
MCB Rating: 60 A

CKT	Circuit Description	Trip	Poles	Notes	A		B		C		Notes	Poles	Trip	Circuit Description	CKT
1	(E) MED GAS ALARM PANEL	20 A	1		0	0						1	20 A	(E) DOOR ACCESS/IRN	2
3	(E) FIRE ALARM ZONE PANEL RM...	20 A	1				0	0				1	20 A	(E) EXISTING LOAD	4
5	(E) FIRE ALARM ZONE PANEL RM BR14A	20 A	1						0	0		1	20 A	(E) EXISTING LOAD	6
7	(E) FIRE ALARM ZONE PANEL	20 A	1		0	0						1	20 A	(E) EXISTING LOAD	8
9	(E) EXIT LIGHTS	20 A	1				0	--				1	--	SPACE	10
11	(E) FIRE ALARM ZONE PANEL RM EB18B	20 A	1						0	--		1	--	SPACE	12
13	(E) FIRE ALARM ZONE 24&25	20 A	1		0	--						1	--	SPACE	14
15	(E) EXIT LTG	20 A	1				0	--				1	--	SPACE	16
17	(E) EXIT LIGHTS	20 A	1						0	--		1	--	SPACE	18
19	(E) EXISTING LOAD	20 A	1		0	--						1	--	SPACE	20
21	REC, AIR SAMPLING SMOKE DETECTOR	20 A	1	1, 2			180	--				1	--	SPACE	22
23	FIRE ALARM CLEAN AGENT RELEASIN...	20 A	1	1, 2					360	--		1	--	SPACE	24
25	SPACE	--	1		--	--						1	--	SPACE	26
27	SPACE	--	1				--	--				1	--	SPACE	28
29	(E) REC, AB15A-42	20 A	1						0	--		1	--	SPACE	30
				Total Conn. Load:	0 VA		180 VA		360 VA						
				Total Amps:	0 A		2 A		3 A						

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
REC,	180 VA	100.00%	180 VA		
Non-Continuous	360 VA	100.00%	360 VA	**Total Conn. Load:**	540 VA
				Total Est. Demand:	540 VA
				Total Conn. Current:	1 A
				Total Est. Demand Current:	1 A

Notes:
1. PROVIDE NEW BREAKER IN EXISTING PANEL SPACE, WHICH SHALL MATCH THE EXISTING PANEL MANUFACTURER AND AIC RATING, AND MANTAIN EXISTING PANEL UL RATING.
2. BREAKER SHALL BE PAINTED RED AND LOCKABLE.

Branch Panel: BC143A

Location: ENTRANCE ROOM 02 (NEW)...
Supply From: BCL-DC
Mounting: Surface
Enclosure: Type 1
Volts: 120/208 Wye
Phases: 3
Wires: 4
A.I.C. Rating: 10000
Mains Type: MCB
Mains Rating: 100 A
MCB Rating: 100 A

CKT	Circuit Description	Trip	Poles	Notes	A		B		C		Notes	Poles	Trip	Circuit Description	CKT
1	L21-20R, ENTRANCE ROOM BC143A	20 A	3		1667	540						1	20 A	REC, ENTRANCE ROOM (NEW) BC143A	2
3	--	--	--	--			1667	0				1	20 A	SPARE	4
5	--	--	--	--					1667	0		1	20 A	SPARE	6
7	L21-20R, ENTRANCE ROOM BC143A	20 A	3		1667	0						1	20 A	SPARE	8
9	--	--	--	--			1667	0				1	20 A	SPARE	10
11	--	--	--	--					1667	0		1	20 A	SPARE	12
13	SPARE	20 A	3		0	0						1	20 A	SPARE	14
15	--	--	--	--			0	0				1	20 A	SPARE	16
17	--	--	--	--					0	0		1	20 A	SPARE	18
19	SPARE	20 A	1		0	0						1	20 A	SPARE	20
21	SPARE	20 A	1				0	0				1	20 A	SPARE	22
23	SPARE	20 A	1						0	0		1	20 A	SPARE	24
25	SPD	30 A	3	1	0	0						1	20 A	SPARE	26
27	--	--	--	--			0	0				1	20 A	SPARE	28
29	--	--	--	--					0	0		1	20 A	SPARE	30
				Total Conn. Load:	3873 VA		3333 VA		3333 VA						
				Total Amps:	32 A		28 A		28 A						

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
REC,	540 VA	100.00%	540 VA		
Telecommunications Equipment	10000 VA	50.00%	5000 VA	**Total Conn. Load:**	10540 VA
				Total Est. Demand:	5540 VA
				Total Conn. Current:	29 A
				Total Est. Demand Current:	15 A

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

Branch Panel: BC143B

Location: ENTRANCE ROOM 02 (NEW)...
Supply From: (E) BC3
Mounting: Surface
Enclosure: Type 1
Volts: 120/208 Wye
Phases: 3
Wires: 4
A.I.C. Rating: 10000
Mains Type: MCB
Mains Rating: 100 A
MCB Rating: 100 A

CKT	Circuit Description	Trip	Poles	Notes	A		B		C		Notes	Poles	Trip	Circuit Description	CKT
1	L21-20R, ENTRANCE ROOM BC143A	20 A	3		1667	0						1	20 A	SPARE	2
3	--	--	--	--			1667	540				1	20 A	REC, ENTRANCE ROOM (NEW) BC143A	4
5	--	--	--	--					1667	0		1	20 A	SPARE	6
7	L21-20R, ENTRANCE ROOM BC143A	20 A	3		1667	0						1	20 A	SPARE	8
9	--	--	--	--			1667	0				1	20 A	SPARE	10
11	--	--	--	--					1667	0		1	20 A	SPARE	12
13	SPARE	20 A	3		0	0						1	20 A	SPARE	14
15	--	--	--	--			0	0				1	20 A	SPARE	16
17	--	--	--	--					0	0		1	20 A	SPARE	18
19	SPARE	20 A	1		0	0						1	20 A	SPARE	20
21	SPARE	20 A	1				0	0				1	20 A	SPARE	22
23	SPARE	20 A	1						0	0		1	20 A	SPARE	24
25	SPD	30 A	3	1	0	0						1	20 A	SPARE	26
27	--	--	--	--			0	0				1	20 A	SPARE	28
29	--	--	--	--					0	0		1	20 A	SPARE	30
				Total Conn. Load:	3333 VA		3873 VA		3333 VA						
				Total Amps:	28 A		32 A		28 A						

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
REC,	540 VA	100.00%	540 VA		
Telecommunications Equipment	10000 VA	50.00%	5000 VA	**Total Conn. Load:**	10540 VA
				Total Est. Demand:	5540 VA
				Total Conn. Current:	29 A
				Total Est. Demand Current:	15 A

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

Branch Panel: (E) BC13

Location: ELECTICAL...
Supply From:
Mounting: Surface
Enclosure: Type 1
Volts: 120/208 Wye
Phases: 3
Wires: 4
A.I.C. Rating: 22000
Mains Type: MCB
Mains Rating: 225 A
MCB Rating: 225 A

CKT	Circuit Description	Trip	Poles	Notes	A		B		C		Notes	Poles	Trip	Circuit Description	CKT
1	(E) STERILIZER ABATOR	40 A	2		0	0						3	30 A	(E) PASS THROUGH WASHER IN SPD	2
3	--	--	--	--			0	0			--	--	--	--	4
5	SPACE	--	1						--	0	--	--	--	--	6
7	(E) EXISTING LOAD	30 A	2		0	0						3	30 A	(E) PASS THROUGH WASHER IN SPD	8
9	--	--	--	--			0	0			--	--	--	--	10
11	SPACE	--	1						--	0	--	--	--	--	12
13	(E) PASS CART WASHER IN SPD	70 A	3		0	0						1	20 A	(E) SPARE	14
15	--	--	--	--			0	0				1	20 A	(E) CANTEEN LIGHTING	16
17	--	--	--	--					0	0		1	20 A	(E) OER STER SPD	18
19	(E) REC IN SPD	20 A	1		0	--						1	--	SPACE	20
21	(E) DRYER IN SPD	20 A	1				0	0				1	20 A	(E) REC, SHOP WASHER	22
23	(E) COMP IN SPD	20 A	1						0	0		1	20 A	(E) SPARE	24
25	(E) ETO STERILIZER ABATOR	40 A	2		0	0						1	20 A	(E) PANEL ROOM FIRE RECEPT	26
27	--	--	--	--			0	0				2	15 A	(E) ETO STERILIZER #4	28
29	(E) SCOPE CABINET	20 A	1						0	0	--	--	--	--	30
31	(E) SCOPE CABINET	20 A	1		0	0						2	15 A	(E) ETO STERILIZER #5	32
33	SPACE	--	1				--	0			--	--	--	--	34
35	(E) SPARE	30 A	2						0	0		2	15 A	(E) ETO STERILIZER #6	36
37	--	--	--	--	0	0					--	--	--	--	38
39	(E) SONIC WASHER	30 A	3				0	0				2	15 A	(E) ETO STERILER #7	40
41	--	--	--						0	0	--	--	--	--	42
43	--	--	--	0	4053						1	3	100 A	PANEL BF107A	44
45	SPACE	--	1				--	3333			--	--	--	--	46
47	SPACE	--	1						--	3333	--	--	--	--	48
49	SPACE	--	1		--	--						1	--	SPACE	50
51	SPACE	--	1				--	--				1	--	SPACE	52
53	SPACE	--	1						--	--		1	--	SPACE	54
				Total Conn. Load:	4053 VA		3333 VA		3333 VA						
				Total Amps:	34 A		28 A		28 A						

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
REC,	720 VA	100.00%	720 VA		
Telecommunications Equipment	10000 VA	50.00%	5000 VA	**Total Conn. Load:**	10720 VA
				Total Est. Demand:	5720 VA
				Total Conn. Current:	30 A
				Total Est. Demand Current:	16 A

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

Branch Panel: BF107A

Location:
Supply From: (E) BC13
Mounting: SURFACE
Enclosure: Type 1
Volts: 120/208 Wye
Phases: 3
Wires: 4
A.I.C. Rating: 10000
Mains Type: MCB
Mains Rating: 100 A
MCB Rating: 100 A

CKT	Circuit Description	Trip	Poles	Notes	A		B		C		Notes	Poles	Trip	Circuit Description	CKT
1	L21-30R LEG A, TR BF107	30 A	3		3333	720						1	20 A	REC, TR (EXPANDED) BF107	2
3	--	--	--	--			3333	0				1	20 A	SPARE	4
5	--	--	--	--					3333	0		1	20 A	SPARE	6
7	SPARE	30 A	3		0	0						1	20 A	SPARE	8
9	--	--	--	--			0	0				1	20 A	SPARE	10
11	--	--	--	--					0	0		1	20 A	SPARE	12
13	SPARE	20 A	1		0	0						1	20 A	SPARE	14
15	SPARE	20 A	1				0	0				1	20 A	SPARE	16
17	SPARE	20 A	1						0	0		1	20 A	SPARE	18
19	SPARE	20 A	1		0	0						1	20 A	SPARE	20
21	SPARE	20 A	1				0	0				1	20 A	SPARE	22
23	SPARE	20 A	1						0	0		1	20 A	SPARE	24
25	SPD	30 A	3	1	0	0						1	20 A	SPARE	26
27	--	--	--	--			0	0				1	20 A	SPARE	28
29	--	--	--	--					0	0		1	20 A	SPARE	30
				Total Conn. Load:	4053 VA		3333 VA		3333 VA						
				Total Amps:	34 A		28 A		28 A						

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
REC,	720 VA	100.00%	720 VA		
Telecommunications Equipment	10000 VA	50.00%	5000 VA	**Total Conn. Load:**	10720 VA
				Total Est. Demand:	5720 VA
				Total Conn. Current:	30 A
				Total Est. Demand Current:	16 A

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

GENERAL NOTES:

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

PANEL SCHEDULE KEY PLAN

BC131A	BC131B	(E) BLL1
BC143A	BC143B	(E) BC13
BF107A	-	

Revisions: **Date:**

ARCHITECT/ENGINEER OF RECORD

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12/18/2025

Facilities Management Services

VA U.S. Department of Veterans Affairs

Drawing Title PANEL SCHEDULES
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-EP604
SHEET 398 of 559

VA FORM 08 - 6231

12/18/2025 5:25:25 PM
Autodesk Docs://Asheville EHRM_V23/637-22-700.047 E ASH - EHRM.rvt

Branch Panel: (E) BC8

Location: ELECTRIC... **Volts:** 120/208 Wye **A.I.C. Rating:** 10000
Supply From: **Phases:** 3 **Mains Type:** MCB
Mounting: Surface **Wires:** 4 **Mains Rating:** 100 A
Enclosure: Type 1 **MCB Rating:** 100 A

CKT	Circuit Description	Trip	Poles	Notes	A		B		C		Notes	Poles	Trip	Circuit Description	CKT
1	(E) REC	20 A	1		0	0						3	20 A	(E) UNIT MORQUE COOLER	2
3	(E) REC, POLICE	20 A	1				0	0			--	--	--	--	4
5	(E) REC, POLICE	20 A	1						0	0	--	--	--	--	6
7	(E) TEL CLOSET	20 A	1	2	0	0						1	20 A	(E) PNEUMATIC EXHAUST CONTROL	8
9	(E) FC POWER SUPPLY H&V CONTROL	20 A	1				0	0				1	20 A	(E) REC, POLICE	10
11	(E) MED GAS ALARM NITROUS OXIDE	20 A	1						0	0		1	20 A	(E) UNKNOWN	12
13	(E) FIRE DAMPER RCU-19 IN FILE ROOM	20 A	1		0	0						2	20 A	(E) MORGUE EVAPORATOR	14
15	(E) AIR DRYER	20 A	2				0	0			--	--	--	--	16
17	--	--	--	--					0	0		1	20 A	(E) REC, MORGUE	18
19	(E) EXHAUST FAN BF104A-47	20 A	1		0	0						1	20 A	SPARE	20
21	(E) AUTO DOOR REAR 47	20 A	1				0	0				1	20 A	SPARE	22
23	(E) DOOR B13, B21	20 A	1						0	0		1	20 A	(E) DOOR CONTROLLER	24
25	(E) DOOR PANEL	20 A	1		0	3333					1	3	100 A	PANEL BF107B	26
27	(E) DOOR PANEL	20 A	1				0	3873			--	--	--	--	28
29	(E) DOOR B01, B08, B22	20 A	1						0	3333	--	--	--	--	30
31	(E) DOOR B07, B18, B19, B20	20 A	1		0	0						2	30 A	(E) CU-1 FOR FCU 1-5	32
33	(E) IF 1 INTAKE FAN	20 A	2				0	0			--	--	--	--	34
35	--	--	--	--					0	0		2	20 A	(E) FCU 1-5	36
37	SPACE	--	1		--	0					--	--	--	--	38
39	(E) BF119E MORGE LAB FREEZER	20 A	1				0	--				1	--	SPACE	40
41	(E) BF119E MORGE LAB FREEXER	20 A	1						0	0		1	20 A	REC, BF 104-47	42
				Total Conn. Load:	3333 VA		3873 VA		3333 VA						
				Total Amps:	28 A		32 A		28 A						

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
REC,	540 VA	100.00%	540 VA		
Telecommunications Equipment	10000 VA	50.00%	5000 VA	**Total Conn. Load:**	10540 VA
				Total Est. Demand:	5540 VA
				Total Conn. Current:	29 A
				Total Est. Demand Current:	15 A

Notes:
1. REMOVE THREE (3) EXISTING 20A, 1P SPARE BREAKERS AND INSTALL NEW 100A, 3P BREAKER. CONTRACTOR SHALL VERIFY SPARE BREAKERS ARE NOT IN USE PRIOR TO REMOVAL. NEW BREAKER SHALL MATCH EXISTING PANEL MANUFACTURER AND AIC RATING, AND MAINTAIN EXISTING PANEL UL RATING.
2. EXISTING CIRCUIT SERVING TR RM 107 TO BE DEMOLISHED UNDER THIS PROJECT.

Branch Panel: (E) BCL-1

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

CKT	Circuit Description	Trip	Poles	Notes	A		B		C		Notes	Poles	Trip	Circuit Description	CKT
1	(E) UNKOWN LOAD	20 A	1		0	0						1	20 A	(E) UNKOWN LOAD	2
3	(E) UNKOWN LOAD	20 A	1				0	0				1	20 A	(E) UNKNOWN LOAD	4
5	(E) UNKOWN LOAD	20 A	1						0	0		1	20 A	(E) UNKOWN LOAD	6
7	(E) UNKOWN LOAD	20 A	1		0	--						1	--	SPACE	8
9	(E) BE119	20 A	1				0	0				2	30 A	(E) UNKOWN LOAD	10
11	(E) CONVEYOR LIGHTS	20 A	1						0	0	--	--	--	--	12
13	(E) LIGHTING SPD	20 A	1		0	0						1	20 A	(E) REC SPD	14
15	(E) UNKOWN LOAD	20 A	1				0	0				1	20 A	(E) REC BE117	16
17	(E) UNKOWN LOAD	20 A	1						0	0		1	20 A	(E) UNKNOWN LOAD	18
19	(E) CONTROLLER POWER FOR...	20 A	1		0	0						1	20 A	(E) REC	20
21	(E) REC, MEDICAL MEDIA	20 A	1				0	0				1	20 A	(E) REC	22
23	(E) WASHER SPD	20 A	3						0	0		1	20 A	(E) EQUIP STORAGE	24
25	--	--	--	--	0	0					--	3	100 A	(E) UNKOWN LOAD	26
27	--	--	--	--			0	0				--	--	--	28
29	(E) LIGHTING SPD	20 A	1						0	0	--	--	--	--	30
31	(E) UNKOWN LOAD	20 A	1		0	--						1	--	SPACE	32
33	(E) SPARE	20 A	1				0	0				2	30 A	(E) CANTEEN DEFROST HEALER	34
35	(E) STEAM CONVERTOR MI-SICU	20 A	1						0	0	--	--	--	--	36
37	(E) ELEVATOR PIT	20 A	1		0	3873					1	3	100 A	PANEL BC118A	38
39	(E) ELEVATOR PIT	20 A	1				0	3333			--	--	--	--	40
41	(E) ELEVATOR PIT	20 A	1						0	3333	--	--	--	--	42
				Total Conn. Load:	3873 VA		3333 VA		3333 VA						
				Total Amps:	32 A		28 A		28 A						

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
REC,	540 VA	100.00%	540 VA		
Telecommunications Equipment	10000 VA	50.00%	5000 VA	**Total Conn. Load:**	10540 VA
				Total Est. Demand:	5540 VA
				Total Conn. Current:	29 A
				Total Est. Demand Current:	15 A

Notes:
1. REMOVE EXISTING 60A, 3P SPARE BREAKER AND INSTALL NEW 100A, 3P BREAKER. NEW BREAKER SHALL MATCH EXISTING PANEL MANUFACTURER AND AIC RATING AND MAINTAIN EXISTING PANEL UL RATING. CONTRACTOR SHALL VERIFY SPARE BREAKER IS NOT IN USE PRIOR TO REMOVAL.

Branch Panel: (E) BCL-2

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

CKT	Circuit Description	Trip	Poles	Notes	A		B		C		Notes	Poles	Trip	Circuit Description	CKT
1	(E) REC	20 A	1		0	0						2	20 A	(E) SPARE	2
3	(E) UNKOWN LOAD	20 A	1				0	0			--	--	--	--	4
5	(E) UNKOWN LOAD	20 A	1						0	0		1	20 A	(E) SPARE	6
7	(E) UNKOWN LOAD	20 A	1		0	0						1	20 A	(E) SCOPE ROOM STERILIZER	8
9	(E) LTG	20 A	1				0	0				1	20 A	(E) REC, BE 102	10
11	(E) SPARE	20 A	1						0	0		1	20 A	(E) REC, BE 102	12
13	(E) SPARE	20 A	1		0	0						1	20 A	(E) REC, BE 102	14
15	(E) STERILIZER SCOPE RM	20 A	1				0	0				1	20 A	(E) EXHASUT FAN	16
17	(E) REC, BE 102	20 A	1						0	--		1	--	SPACE	18
19	(E) REC, BE 102	20 A	1		0	0						2	20 A	(E) SCOPE RM	20
21	(E) REC, BE 102	20 A	1				0	0				--	--	--	22
23	(E) SPD WARD SUPPLY	20 A	1						0	0		1	20 A	SPARE	24
25	(E) UNKNOWN LOAD	20 A	1		0	0						3	30 A	(E) SPS ROTOMAT #1	26
27	(E) REC	20 A	1				0	0				--	--	--	28
29	(E) UNKNOWN LOAD	20 A	1						0	0	--	--	--	--	30
31	(E) SPARE	20 A	1		0	0						3	30 A	(E) SPS ROTOMAT #2	32
33	(E) REC, CLASSROOM C	20 A	1				0	0			--	--	--	--	34
35	SPACE	--	1						--	0	--	--	--	--	36
37	(E) SPD STERILIZER	30 A	3		0	3333						1	3	100 A	PANEL BC118B	38
39	--	--	--	--			0	3873			--	--	--	--	40
41	--	--	--	--					0	3333	--	--	--	--	42
				Total Conn. Load:	3333 VA		3873 VA		3333 VA						
				Total Amps:	28 A		32 A		28 A						

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
REC,	540 VA	100.00%	540 VA		
Telecommunications Equipment	10000 VA	50.00%	5000 VA	**Total Conn. Load:**	10540 VA
				Total Est. Demand:	5540 VA
				Total Conn. Current:	29 A
				Total Est. Demand Current:	15 A

Notes:
1. REMOVE EXISTING 60A, 3P SPARE BREAKER AND INSTALL NEW 100A, 3P BREAKER. NEW BREAKER SHALL MATCH EXISTING PANEL MANUFACTURER AND AIC RATING AND MAINTAIN EXISTING PANEL UL RATING. CONTRACTOR SHALL VERIFY SPARE BREAKER IS NOT IN USE PRIOR TO REMOVAL.

Branch Panel: BF107B

Location: **Volts:** 120/208 Wye **A.I.C. Rating:** 10000
Supply From: (E) BC8 **Phases:** 3 **Mains Type:** MCB
Mounting: SURFACE **Wires:** 4 **Mains Rating:** 100 A
Enclosure: Type 1 **MCB Rating:** 100 A

CKT	Circuit Description	Trip	Poles	Notes	A		B		C		Notes	Poles	Trip	Circuit Description	CKT
1	L21-30R LEG B, TR BF107	30 A	3		3333	0						1	20 A	SPARE	2
3	--	--	--	--			3333	540				1	20 A	REC, TR (EXPANDED) BF107	4
5	--	--	--	--					3333	0		1	20 A	SPARE	6
7	SPARE	30 A	3		0	0						1	20 A	SPARE	8
9	--	--	--	--			0	0				1	20 A	SPARE	10
11	--	--	--	--					0	0		1	20 A	SPARE	12
13	SPARE	20 A	1		0	0						1	20 A	SPARE	14
15	SPARE	20 A	1				0	0				1	20 A	SPARE	16
17	SPARE	20 A	1						0	0		1	20 A	SPARE	18
19	SPARE	20 A	1		0	0						1	20 A	SPARE	20
21	SPARE	20 A	1				0	0				1	20 A	SPARE	22
23	SPARE	20 A	1						0	0		1	20 A	SPARE	24
25	SPD	30 A	3	1	0	0						1	20 A	SPARE	26
27	--	--	--	--			0	0				1	20 A	SPARE	28
29	--	--	--	--					0	0		1	20 A	SPARE	30
				Total Conn. Load:	3333 VA		3873 VA		3333 VA						
				Total Amps:	28 A		32 A		28 A						

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
REC,	540 VA	100.00%	540 VA		
Telecommunications Equipment	10000 VA	50.00%	5000 VA	**Total Conn. Load:**	10540 VA
				Total Est. Demand:	5540 VA
				Total Conn. Current:	29 A
				Total Est. Demand Current:	15 A

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

Branch Panel: BC118A

Location: TR (EXPANDED) BC118 **Volts:** 120/208 Wye **A.I.C. Rating:** 10000
Supply From: (E) BCL-1 **Phases:** 3 **Mains Type:** MCB
Mounting: SURFACE **Wires:** 4 **Mains Rating:** 100 A
Enclosure: Type 1 **MCB Rating:** 100 A

CKT	Circuit Description	Trip	Poles	Notes	A		B		C		Notes	Poles	Trip	Circuit Description	CKT
1	L21-30R LEG A, TR BC118	30 A	3		3333	540						1	20 A	REC, TR (EXPANDED) BC118	2
3	--	--	--	--			3333	0				1	20 A	SPARE	4
5	--	--	--	--					3333	0		1	20 A	SPARE	6
7	SPARE	30 A	3		0	0						1	20 A	SPARE	8
9	--	--	--	--			0	0				1	20 A	SPARE	10
11	--	--	--	--					0	0		1	20 A	SPARE	12
13	SPARE	20 A	1		0	0						1	20 A	SPARE	14
15	SPARE	20 A	1				0	0				1	20 A	SPARE	16
17	SPARE	20 A	1						0	0		1	20 A	SPARE	18
19	SPARE	20 A	1		0	0						1	20 A	SPARE	20
21	SPARE	20 A	1				0	0				1	20 A	SPARE	22
23	SPARE	20 A	1						0	0		1	20 A	SPARE	24
25	SPD	30 A	3	1	0	0						1	20 A	SPARE	26
27	--	--	--	--			0	0				1	20 A	SPARE	28
29	--	--	--	--					0	0		1	20 A	SPARE	30
				Total Conn. Load:	3873 VA		3333 VA		3333 VA						
				Total Amps:	32 A		28 A		28 A						

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
REC,	540 VA	100.00%	540 VA		
Telecommunications Equipment	10000 VA	50.00%	5000 VA	**Total Conn. Load:**	10540 VA
				Total Est. Demand:	5540 VA
				Total Conn. Current:	29 A
				Total Est. Demand Current:	15 A

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

Branch Panel: BC118B

Location: TR (EXPANDED) BC118 **Volts:** 120/208 Wye **A.I.C. Rating:** 10000
Supply From: (E) BCL-2 **Phases:** 3 **Mains Type:** MCB
Mounting: SURFACE **Wires:** 4 **Mains Rating:** 100 A
Enclosure: Type 1 **MCB Rating:** 100 A

CKT	Circuit Description	Trip	Poles	Notes	A		B		C		Notes	Poles	Trip	Circuit Description	CKT
1	L21-30R LEG B, TR BC118	30 A	3		3333	0						1	20 A	SPARE	2
3	--	--	--	--			3333	540				1	20 A	REC, TR (EXPANDED) BC118	4
5	--	--	--	--					3333	0		1	20 A	SPARE	6
7	SPARE	30 A	3		0	0						1	20 A	SPARE	8
9	--	--	--	--			0	0				1	20 A	SPARE	10
11	--	--	--	--					0	0		1	20 A	SPARE	12
13	SPARE	20 A	1		0	0						1	20 A	SPARE	14
15	SPARE	20 A	1				0	0				1	20 A	SPARE	16
17	SPARE	20 A	1						0	0		1	20 A	SPARE	18
19	SPARE	20 A	1		0	0						1	20 A	SPARE	20
21	SPARE	20 A	1				0	0				1	20 A	SPARE	22
23	SPARE	20 A	1						0	0		1	20 A	SPARE	24
25	SPD	30 A	3	1	0	0						1	20 A	SPARE	26
27	--	--	--	--			0	0				1	20 A	SPARE	28
29	--	--	--	--					0	0		1	20 A	SPARE	30
				Total Conn. Load:	3333 VA		3873 VA		3333 VA						
				Total Amps:	28 A		32 A		28 A						

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
REC,	540 VA	100.00%	540 VA		
Telecommunications Equipment	10000 VA	50.00%	5000 VA	**Total Conn. Load:**	10540 VA
				Total Est. Demand:	5540 VA
				Total Conn. Current:	29 A
				Total Est. Demand Current:	15 A

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

GENERAL NOTES:

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

PANEL SCHEDULE KEY PLAN

(E) BC8	(E) BCL-1	(E) BCL-2
BF107B	BC118A	BC118B
-	-	

Revisions:	Date:

ARCHITECT/ENGINEER OF RECORD

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12/18/2025

Facilities Management Services

VA U.S. Department of Veterans Affairs

Drawing Title: PANEL SCHEDULES
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-EP605
SHEET 399 of 559

VA FORM 08 - 6231

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

Branch Panel: (E) 1CLDB

Location: ELEC 1B135
Supply From:
Mounting: SURFACE
Enclosure: Type 1
Volts: 120/208 Wye
Phases: 3
Wires: 4
A.I.C. Rating: 65000
Mains Type: MCB
Mains Rating: 400 A
MCB Rating: 400 A

CKT	Circuit Description	Trip	Poles	Notes	A		B		C		Notes	Poles	Trip	Circuit Description	CKT
1	(E) SPARE	100 A	3		0	3873					1	3	100 A	PANEL 1B134A	2
3	--	--	--	--			0	3333			--	--	--	--	4
5	--	--	--	--					0	3333	--	--	--	--	6
7	PANEL BB018B	100 A	3	1	3873	3873					1	3	100 A	PANEL 2B212A	8
9	--	--	--	--			3333	3333			--	--	--	--	10
11	--	--	--	--					3333	3333	--	--	--	--	12
13	(E) SPARE	200 A	3		0	3333						3	200 A	(E) PANEL 2CLB1-B	14
15	--	--	--	--			0	3873			--	--	--	--	16
17	--	--	--	--					0	3333	--	--	--	--	18
19	(E) PANEL BCLB	200 A	3		3333	3333						3	200 A	(E) PANEL 1CLB1-A	20
21	--	--	--	--			3873	3873			--	--	--	--	22
23	--	--	--	--					3333	3333	--	--	--	--	24
				Total Conn. Load:	21620 VA		21620 VA		20000 VA						
				Total Amps:	182 A		182 A		167 A						

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
REC,	3240 VA	100.00%	3240 VA		
Telecommunications Equipment	60000 VA	50.00%	30000 VA	**Total Conn. Load:**	63240 VA
				Total Est. Demand:	33240 VA
				Total Conn. Current:	176 A
				Total Est. Demand Current:	92 A

Notes:
1. INSTALL NEW 100A, 3P BREAKER USING EXISTING AVAILABLE PANEL SPACE. CONTRACTOR SHALL VERIFY PANEL SPACE IS NOT IN USE PRIOR TO REMOVAL. NEW BREAKER SHALL MATCH EXISTING PANEL MANUFACTURER AND AIC RATING, AND MAINTAIN EXISTING PANEL UL RATING.

Branch Panel: (E) BCLB

Location: ELEC. BB019
Supply From: (E) 1CLDB
Mounting: Surface
Enclosure: Type 1
Volts: 120/208 Wye
Phases: 3
Wires: 4
A.I.C. Rating: 14000
Mains Type: MCB
Mains Rating: 200 A
MCB Rating: 200 A

CKT	Circuit Description	Trip	Poles	Notes	A		B		C		Notes	Poles	Trip	Circuit Description	CKT
1	(E) REC, BB019	20 A	1		0	0						1	20 A	(E) REC, BB052	2
3	(E) REC, BB018	20 A	1				0	0				1	20 A	(E) REC, BB052	4
5	(E) REC, BB048	50 A	2						0	0		1	20 A	(E) REC, BB052	6
7	--	--	--	--	0	0						1	20 A	(E) GAS SO VLV BB052	8
9	(E) REC, BB049	20 A	1				0	0				1	20 A	(E) REFRIG LIGHT	10
11	(E) REC, BB049	20 A	1						0	0		2	20 A	(E) REFRIG FAN COIL	12
13	(E) REC, BB051	20 A	1		0	0					--	--	--	--	14
15	(E) REC, BB051	20 A	1				0	0				2	20 A	(E) LAB	16
17	(E) REC, BB051	20 A	1						0	0	--	--	--	--	18
19	(E) REC, BB051	20 A	1		0	0						1	20 A	(E) REC, BB030, BB034	20
21	(E) REC, BB051	20 A	1				0	0				2	20 A	(E) REC, BB052	22
23	(E) REC, BB052	20 A	1						0	0	--	--	--	--	24
25	(E) REC, BB052	20 A	1		0	0						2	100 A	(E) UNKNOWN LOAD	26
27	(E) REC, BB052	20 A	1				0	0			--	--	--	--	28
29	(E) REC, BB052	20 A	1						0	0		1	20 A	(E) UNKNOWN LOAD	30
31	(E) REC, BB052	20 A	1		0	0						1	20 A	(E) UNKOWN LOAD	32
33	(E) REC, BB052	20 A	1				0	0				2	50 A	(E) LAB TEMP	34
35	(E) REC, BB052	20 A	1						0	0	--	--	--	--	36
37	(E) REC, BB052	20 A	1		0	3333						3	100 A	(E) PANEL BCLB-2	38
39	(E) REC, BB052	20 A	1				0	3873			--	--	--	--	40
41	(E) REC, BB052	20 A	1						0	3333	--	--	--	--	42
				Total Conn. Load:	3333 VA		3873 VA		3333 VA						
				Total Amps:	28 A		32 A		28 A						

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
REC,	540 VA	100.00%	540 VA		
Telecommunications Equipment	10000 VA	50.00%	5000 VA	**Total Conn. Load:**	10540 VA
				Total Est. Demand:	5540 VA
				Total Conn. Current:	29 A
				Total Est. Demand Current:	15 A

Notes:
1. NO SCOPE IN THIS PANEL; SCHEDULE SHOWN FOR REFERENCE ONLY.

Branch Panel: (E) 1CLB1-A

Location: ELEC 1B135
Supply From: (E) 1CLDB
Mounting: SURFACE
Enclosure: Type 1
Volts: 120/208 Wye
Phases: 3
Wires: 4
A.I.C. Rating: 14000
Mains Type: MCB
Mains Rating: 200 A
MCB Rating: 200 A

CKT	Circuit Description	Trip	Poles	Notes	A		B		C		Notes	Poles	Trip	Circuit Description	CKT
1	(E) REC, 1BCORR	20 A	1		0	0						1	20 A	(E) REC, 1B119, 120	2
3	(E) REC, 1B135	20 A	1				0	0				1	20 A	(E) REC, 1B117, 118	4
5	(E) REC, 1B134	20 A	1						0	0		1	20 A	(E) REC, 1B115, 116	6
7	(E) REC, 1B108	20 A	1		0	0						1	20 A	(E) REC, 1B125, 126	8
9	(E) REC, 1B107	20 A	1				0	0				1	20 A	(E) REC, 1B124	10
11	(E) REC, 1B107	20 A	1						0	0		1	20 A	(E) REC, 1B122	12
13	(E) REC, 1B106	20 A	1		0	0						1	20 A	(E) REC, 1B112, 113	14
15	(E) REC, 1B105	20 A	1				0	0				1	20 A	(E) REC, 1B110, 111	16
17	(E) REC, 1B104	20 A	1						0	0		1	20 A	(E) REC, 1B109, 114	18
19	(E) REC, 1B106	20 A	1		0	0						1	20 A	(E) EXAM LIGHTS 1B112	20
21	(E) REC, 1B105	20 A	1				0	0				1	20 A	(E) EXAM LIGHTS 1B111	22
23	(E) REC, 1B104	20 A	1						0	0		1	20 A	(E) EXAM LIGHTS 1B106	24
25	(E) REC, 1B103	20 A	1		0	0						1	20 A	(E) EXAM LIGHTS 1B105	26
27	SPARE	20 A	1				0	0				1	20 A	(E) EXAM LIGHTS 1B104	28
29	(E) FRIDGE 1B103	20 A	1						0	0		1	20 A	(E) SPARE	30
31	(E) NURSE CALL 1B134	20 A	1		0	3333					1	3	100 A	PANEL 1B134B	32
33	(E) SPARE	20 A	1				0	3873			--	--	--	--	34
35	(E) SPARE	20 A	1						0	3333	--	--	--	--	36
37	(E) SPARE	20 A	1		0	--						1	--	SPACE	38
39	SPACE	--	1				--	--				1	--	SPACE	40
41	SPACE	--	1						--	--		1	--	SPACE	42
				Total Conn. Load:	3333 VA		3873 VA		3333 VA						
				Total Amps:	28 A		32 A		28 A						

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
REC,	540 VA	100.00%	540 VA		
Telecommunications Equipment	10000 VA	50.00%	5000 VA	**Total Conn. Load:**	10540 VA
				Total Est. Demand:	5540 VA
				Total Conn. Current:	29 A
				Total Est. Demand Current:	15 A

Notes:
1. INSTALL NEW 100A, 3P BREAKER USING EXISTING AVAILABLE PANEL SPACE. CONTRACTOR SHALL VERIFY PANEL SPACE IS NOT IN USE PRIOR TO REMOVAL. NEW BREAKER SHALL MATCH EXISTING PANEL MANUFACTURER AND AIC RATING AND MAINTAIN EXISTING PANEL UL RATING.

Branch Panel: BB018B

Location: TR (EXISTING) BB018
Supply From: (E) 1CLDB
Mounting: SURFACE
Enclosure: Type 1
Volts: 120/208 Wye
Phases: 3
Wires: 4
A.I.C. Rating: 10000
Mains Type: MCB
Mains Rating: 100 A
MCB Rating: 100 A

CKT	Circuit Description	Trip	Poles	Notes	A		B		C		Notes	Poles	Trip	Circuit Description	CKT
1	L21-30R LEG B, TR BB018	30 A	3		3333	540						1	20 A	REC, SIGNAL FMS BB018	2
3	--	--	--	--			3333	0				1	20 A	SPARE	4
5	--	--	--	--					3333	0		1	20 A	SPARE	6
7	SPARE	30 A	3		0	0						1	20 A	SPARE	8
9	--	--	--	--			0	0				1	20 A	SPARE	10
11	--	--	--	--					0	0		1	20 A	SPARE	12
13	SPARE	20 A	1		0	0						1	20 A	SPARE	14
15	SPARE	20 A	1				0	0				1	20 A	SPARE	16
17	SPARE	20 A	1						0	0		1	20 A	SPARE	18
19	SPARE	20 A	1		0	0						1	20 A	SPARE	20
21	SPARE	20 A	1				0	0				1	20 A	SPARE	22
23	SPARE	20 A	1						0	0		1	20 A	SPARE	24
25	SPD	30 A	3	1	0	0						1	20 A	SPARE	26
27	--	--	--	--			0	0				1	20 A	SPARE	28
29	--	--	--	--					0	0		1	20 A	SPARE	30
				Total Conn. Load:	3873 VA		3333 VA		3333 VA						
				Total Amps:	32 A		28 A		28 A						

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
REC,	540 VA	100.00%	540 VA		
Telecommunications Equipment	10000 VA	50.00%	5000 VA	**Total Conn. Load:**	10540 VA
				Total Est. Demand:	5540 VA
				Total Conn. Current:	29 A
				Total Est. Demand Current:	15 A

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

Branch Panel: (E) BCLB-2

Location: ELEC. BB019
Supply From: (E) BCLB
Mounting: Surface
Enclosure: Type 1
Volts: 120/208 Wye
Phases: 3
Wires: 4
A.I.C. Rating: 10000
Mains Type: MLO
Mains Rating: 225 A

CKT	Circuit Description	Trip	Poles	Notes	A		B		C		Notes	Poles	Trip	Circuit Description	CKT
1	(E) REC, LOBBY	20 A	1		0	0						1	20 A	(E) UNKOWN LOAD	2
3	(E) REC, RECEPTION	20 A	1				0	0				1	20 A	(E) UNKOWN LOAD	4
5	(E) REC, OFFICE PLEB	20 A	1						0	0		1	20 A	(E) UNKOWN LOAD	6
7	(E) REC, WORK AREA	20 A	1		0	0						1	20 A	SPARE	8
9	(E) REC, WORK AREA	20 A	1				0	0				1	20 A	SPARE	10
11	(E) REC, WORK STATION #1	20 A	1						0	0		1	20 A	SPARE	12
13	(E) REC, WORK STATION #2	20 A	1		0	0						1	20 A	SPARE	14
15	(E) REC, WORK STATION #3	20 A	1				0	0				1	20 A	SPARE	16
17	(E) REC, WORK STATION #4	20 A	1						0	0		1	20 A	SPARE	18
19	(E) REC, WORK STATION #5	20 A	1		0	0						1	20 A	SPARE	20
21	(E) REC, WORK STATION #6	20 A	1				0	0				1	20 A	SPARE	22
23	(E) REC, WORK STATION #7	20 A	1						0	0		1	20 A	SPARE	24
25	(E) REC, WORK STATION #8	20 A	1		0	3333					1	3	100 A	PANEL BB018A	26
27	(E) REC, WORK STATION #9	20 A	1				0	3873			--	--	--	--	28
29	(E) REC, WORK STATION #10	20 A	1						0	3333	--	--	--	--	30
				Total Conn. Load:	3333 VA		3873 VA		3333 VA						
				Total Amps:	28 A		32 A		28 A						

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
REC,	540 VA	100.00%	540 VA		
Telecommunications Equipment	10000 VA	50.00%	5000 VA	**Total Conn. Load:**	10540 VA
				Total Est. Demand:	5540 VA
				Total Conn. Current:	29 A
				Total Est. Demand Current:	15 A

Notes:
1. REMOVE THREE (3) EXISTING 20A, 1P SPARE BREAKERS AND INSTALL NEW 100A, 3P BREAKER. CONTRACTOR SHALL VERIFY SPARE BREAKERS ARE NOT IN USE PRIOR TO REMOVAL. NEW BREAKER SHALL MATCH EXISTING PANEL MANUFACTURER AND AIC RATING, AND MAINTAIN EXISTING PANEL UL RATING.

Branch Panel: 1B134B

Location:
Supply From: (E) 1CLB1-A
Mounting: SURFACE
Enclosure: Type 1
Volts: 120/208 Wye
Phases: 3
Wires: 4
A.I.C. Rating: 10000
Mains Type: MCB
Mains Rating: 100 A
MCB Rating: 100 A

CKT	Circuit Description	Trip	Poles	Notes	A		B		C		Notes	Poles	Trip	Circuit Description	CKT
1	L21-30R LEG B, TR 1B134	30 A	3		3333	0						1	20 A	SPARE	2
3	--	--	--	--			3333	540				1	20 A	REC, TR 1B134	4
5	--	--	--	--					3333	0		1	20 A	SPARE	6
7	SPARE	30 A	3		0	0						1	20 A	SPARE	8
9	--	--	--	--			0	0				1	20 A	SPARE	10
11	--	--	--	--					0	0		1	20 A	SPARE	12
13	SPARE	20 A	1		0	0						1	20 A	SPARE	14
15	SPARE	20 A	1				0	0				1	20 A	SPARE	16
17	SPARE	20 A	1						0	0		1	20 A	SPARE	18
19	SPARE	20 A	1		0	0						1	20 A	SPARE	20
21	SPARE	20 A	1				0	0				1	20 A	SPARE	22
23	SPARE	20 A	1						0	0		1	20 A	SPARE	24
25	SPD	30 A	3	1	0	0						1	20 A	SPARE	26
27	--	--	--	--			0	0				1	20 A	SPARE	28
29	--	--	--	--					0	0		1	20 A	SPARE	30
				Total Conn. Load:	3333 VA		3873 VA		3333 VA						
				Total Amps:	28 A		32 A		28 A						

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
REC,	540 VA	100.00%	540 VA		
Telecommunications Equipment	10000 VA	50.00%	5000 VA	**Total Conn. Load:**	10540 VA
				Total Est. Demand:	5540 VA
				Total Conn. Current:	29 A
				Total Est. Demand Current:	15 A

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

Branch Panel: 1B134A

Location: TR (EXISTING) 1B134
Supply From: (E) 1CLDB
Mounting: SURFACE
Enclosure: Type 1
Volts: 120/208 Wye
Phases: 3
Wires: 4
A.I.C. Rating: 10000
Mains Type: MCB
Mains Rating: 100 A
MCB Rating: 100 A

CKT	Circuit Description	Trip	Poles	Notes	A		B		C		Notes	Poles	Trip	Circuit Description	CKT
1	L21-30R LEG A, TR 1B134	30 A	3		3333	540						1	20 A	REC, TR 1B134	2
3	--	--	--	--			3333	0				1	20 A	SPARE	4
5	--	--	--	--					3333	0		1	20 A	SPARE	6
7	SPARE	30 A	3		0	0						1	20 A	SPARE	8
9	--	--	--	--			0	0				1	20 A	SPARE	10
11	--	--	--	--					0	0		1	20 A	SPARE	12
13	SPARE	20 A	1		0	0						1	20 A	SPARE	14
15	SPARE	20 A	1				0	0				1	20 A	SPARE	16
17	SPARE	20 A	1						0	0		1	20 A	SPARE	18
19	SPARE	20 A	1		0	0						1	20 A	SPARE	20
21	SPARE	20 A	1				0	0				1	20 A	SPARE	22
23	SPARE	20 A	1						0	0		1	20 A	SPARE	24
25	SPD	30 A	3	1	0	0						1	20 A	SPARE	26
27	--	--	--	--			0	0				1	20 A	SPARE	28
29	--	--	--	--					0	0		1	20 A	SPARE	30
				Total Conn. Load:	3873 VA		3333 VA		3333 VA						
				Total Amps:	32 A		28 A		28 A						

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
REC,	540 VA	100.00%	540 VA		
Telecommunications Equipment	10000 VA	50.00%	5000 VA	**Total Conn. Load:**	10540 VA
				Total Est. Demand:	5540 VA
				Total Conn. Current:	29 A
				Total Est. Demand Current:	15 A

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

Branch Panel: BB018A

Location: TR (EXISTING) BB018
Supply From: (E) BCLB-2
Mounting: SURFACE
Enclosure: Type 1
Volts: 120/208 Wye
Phases: 3
Wires: 4
A.I.C. Rating: 10000
Mains Type: MCB
Mains Rating: 100 A
MCB Rating: 100 A

CKT	Circuit Description	Trip	Poles	Notes	A		B		C		Notes	Poles	Trip	Circuit Description	CKT
1	L21-30R LEG A, TR BB018	30 A	3		3333	0						1	20 A	SPARE	2
3	--	--	--	--			3333	540				1	20 A	REC, SIGNAL FMS BB018	4
5	--	--	--	--					3333	0		1	20 A	SPARE	6
7	SPARE	30 A	3		0	0						1	20 A	SPARE	8
9	--	--	--	--			0	0				1	20 A	SPARE	10
11	--	--	--	--					0	0		1	20 A	SPARE	12
13	SPARE	20 A	1		0	0						1	20 A	SPARE	14
15	SPARE	20 A	1				0	0				1	20 A	SPARE	16
17	SPARE	20 A	1						0	0		1	20 A	SPARE	18
19	SPARE	20 A	1		0	0						1	20 A	SPARE	20
21	SPARE	20 A	1				0	0				1	20 A	SPARE	22
23	SPARE	20 A	1						0	0		1	20 A	SPARE	24
25	SPD	30 A	3	1	0	0						1	20 A	SPARE	26
27	--	--	--	--			0	0				1	20 A	SPARE	28
29	--	--	--	--					0	0		1	20 A	SPARE	30
				Total Conn. Load:	3333 VA		3873 VA		3333 VA						
				Total Amps:	28 A		32 A		28 A						

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
REC,	540 VA	100.00%	540 VA		
Telecommunications Equipment	10000 VA	50.00%	5000 VA	**Total Conn. Load:**	10540 VA
				Total Est. Demand:	5540 VA
				Total Conn. Current:	29 A
				Total Est. Demand Current:	15 A

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

GENERAL NOTES:

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

PANEL SCHEDULE KEY PLAN

(E) 1CLDB	(E) BCLB	(E) 1CLB1-A
BB018B	(E) BCLB-2	1B134B
1B134A	BB018A	

Revisions: **Date:**

ARCHITECT/ENGINEER OF RECORD

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12/18/2025

Facilities Management Services

VA U.S. Department of Veterans Affairs

Drawing Title PANEL SCHEDULES
Approved:
FOR OFFICIAL USE ONLY

Phase FINAL BID DOCUMENTS

Project Title EHRM INFRASTRUCTURE UPGRADES

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-EP606
SHEET 400 of 559

VA FORM 08 - 6231

12/18/2025 5:25:28 PM
Autodesk Docs://Asheville EHRM_V23/637-22-700.047 E ASH - EHRM.rvt

Branch Panel: (E) 2CLDA

Location: Space 425
Supply From:
Mounting: SURFACE
Enclosure: Type 1
Volts: 120/208 Wye
Phases: 3
Wires: 4
A.I.C. Rating: 42000
Mains Type: MCB
Mains Rating: 600 A
MCB Rating: 600 A

CKT	Circuit Description	Trip	Poles	Notes	A		B		C		Notes	Poles	Trip	Circuit Description	CKT
1	SPARE	100 A	3		0	0						3	100 A	(E) PANEL 8CLA1	2
3	--	--	--	--			0	0			--	--	--	--	4
5	--	--	--	--					0	0	--	--	--	--	6
7	(E) PANEL 1CLA1-B	200 A	3		3333	--						1	--	SPACE	8
9	--	--	--				3873	--				1	--	SPACE	10
11	--	--	--						3333	--		1	--	SPACE	12
13	SPARE	200 A	3		0	6037						3	200 A	(E) PANEL 2CLA-A	14
15	--	--	--	--			0	8741			--	--	--	--	16
17	--	--	--	--					0	6577	--	--	--	--	18
19	PANEL 2A246A	100 A	3	1	3873	3873					1	3	100 A	PANEL 1A137A	20
21	--	--	--	--			3333	3333			--	--	--	--	22
23	--	--	--	--					3333	3333	--	--	--	--	24
25	SPACE	--	1		--	--						1	--	SPACE	26
27	SPACE	--	1				--	--				1	--	SPACE	28
29	SPACE	--	1						--	--		1	--	SPACE	30
31	SPACE	--	1		--	--						1	--	SPACE	32
33	SPACE	--	1				--	--				1	--	SPACE	34
35	SPACE	--	1						--	--		1	--	SPACE	36
				Total Conn. Load:	17117 VA		19281 VA		16577 VA						
				Total Amps:	143 A		161 A		138 A						

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
HVAC	10816 VA	100.00%	10816 VA		
REC,	2160 VA	100.00%	2160 VA	**Total Conn. Load:**	52976 VA
Telecommunications Equipment	40000 VA	50.00%	20000 VA	**Total Est. Demand:**	32976 VA
				Total Conn. Current:	147 A
				Total Est. Demand Current:	92 A

Notes:
1. INSTALL NEW 100A, 3P BREAKER USING EXISTING AVAILABLE PANEL SPACE. CONTRACTOR SHALL VERIFY PANEL SPACE IS NOT IN USE PRIOR TO REMOVAL. NEW BREAKER SHALL MATCH EXISTING PANEL MANUFACTURER AND AIC RATING AND SHALL MAINTAIN EXISTING UL RATING.

Branch Panel: (E) 1CLA1-B

Location: ELEC 1A136
Supply From: (E) 2CLDA
Mounting: Surface
Enclosure: Type 1
Volts: 120/208 Wye
Phases: 3
Wires: 4
A.I.C. Rating: 22000
Mains Type: MCB
Mains Rating: 200 A
MCB Rating: 200 A

CKT	Circuit Description	Trip	Poles	Notes	A		B		C		Notes	Poles	Trip	Circuit Description	CKT
1	(E) REC, OBS/A106	20 A	1		0	3333					1	3	100 A	PANEL 1A137B	2
3	(E) REC, OBS/A104	20 A	1				0	3873			--	--	--	--	4
5	(E) REC, OBS/A103	20 A	1						0	3333	--	--	--	--	6
7	(E) REC, OBS/A107	20 A	1		0	--						1	--	SPACE	8
9	(E) REC, OBS/A108	20 A	1				0	--				1	--	SPACE	10
11	(E) REC, OBS/A113	20 A	1						0	--		1	--	SPACE	12
13	(E) REC, ED	20 A	1		0	--						1	--	SPACE	14
15	(E) REC, NURSE STATION EM	20 A	1				0	--				1	--	SPACE	16
17	(E) REC, ED	20 A	1						0	--		1	--	SPACE	18
19	(E) REC, CORRIDOR/A109	20 A	1		0	--						1	--	SPACE	20
21	(E) REC, NURSE STATION EM	20 A	1				0	--				1	--	SPACE	22
23	(E) SPARE - BLUE	20 A	1						0	--		1	--	SPACE	24
25	(E) SCRIPT MACHINE REC	20 A	1		0	--						1	--	SPACE	26
27	(E) REC, NURSE STATION EM	20 A	1				0	--				1	--	SPACE	28
29	(E) REC, A109	20 A	1						0	--		1	--	SPACE	30
31	(E) REC, NURSE STATION EM	20 A	1		0	--						1	--	SPACE	32
33	(E) REC, NURSE STATION EM	20 A	1				0	--				1	--	SPACE	34
35	(E) RM 1A115	20 A	1						0	--		1	--	SPACE	36
37	(E) RM 1A115	20 A	1		0	--						1	--	SPACE	38
39	(E) REC, CLEAN UTILITY A119	20 A	1				0	--				1	--	SPACE	40
41	SPACE	--	1						--	--		1	--	SPACE	42
				Total Conn. Load:	3333 VA		3873 VA		3333 VA						
				Total Amps:	28 A		32 A		28 A						

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
REC,	540 VA	100.00%	540 VA		
Telecommunications Equipment	10000 VA	50.00%	5000 VA	**Total Conn. Load:**	10540 VA
				Total Est. Demand:	5540 VA
				Total Conn. Current:	29 A
				Total Est. Demand Current:	15 A

Notes:
1. INSTALL NEW 100A, 3P BREAKER FOR USING EXISTING AVAILABLE PANEL SPACE. CONTRACTOR SHALL VERIFY PANEL SPACE IS NOT IN USE PRIOR TO REMOVAL. NEW BREAKER SHALL MATCH EXISTING PANEL MANUFACTURER AND AIC RATING AND SHALL MAINTAIN EXISTING UL RATING.

Branch Panel: (E) 1CLD1-A

Location: ELEC EQUIP 1D111
Supply From:
Mounting: Surface
Enclosure: Type 1
Volts: 120/208 Wye
Phases: 3
Wires: 4
A.I.C. Rating: 22000
Mains Type: MCB
Mains Rating: 200 A
MCB Rating: 200 A

CKT	Circuit Description	Trip	Poles	Notes	A		B		C		Notes	Poles	Trip	Circuit Description	CKT
1	(E) REC, 1D115, 116	20 A	1		0	0						1	20 A	(E) LGT 1D116	2
3	(E) REC AND PRINTER 1D115	20 A	1				0	0				1	20 A	(E) SPARE	4
5	(E) REC AND CAM 2&3	20 A	1						0	0		1	20 A	(E) REC, 1D106	6
7	(E) REC AND REF 1D122B	20 A	1		0	0						1	20 A	(E) REC, 1D106	8
9	(E) REC, 1D121	20 A	1				0	0				1	20 A	(E) REC, 1D111	10
11	(E) REC, 1D123	20 A	1						0	0		1	20 A	(E) LGT 1D120	12
13	(E) REC, 1D117	20 A	1		0	0						1	20 A	(E) RADIO ISO HOOD	14
15	(E) REC, 1D117	20 A	1				0	0				1	20 A	(E) 120 CIRCUIT EXISTING	16
17	(E) REC AND REF 1D118	20 A	1						0	0		1	20 A	SPARE	18
19	(E) REC, 1D110	20 A	1		0	0						1	20 A	(E) X-RAY MOVABLE SHELVING	20
21	(E) REC, 1D116	20 A	1				0	0				1	20 A	(E) 120 CIRCUIT	22
23	(E) REC, 1D120	20 A	1						0	4053	1	3	100 A	PANEL 1D144B	24
25	(E) REC, 1D120	20 A	1		0	3333						--	--	--	26
27	(E) REC, 1D120	20 A	1				0	3333				--	--	--	28
29	(E) REC, 1D119	20 A	1						0	0		1	20 A	(E) SPARE	30
31	(E) REC, 1D119	20 A	1		0	0						1	20 A	(E) SPARE	32
33	(E) REC, 1D119	20 A	1				0	0				1	20 A	(E) SPARE	34
35	(E) REC, 1D119	20 A	1						0	0		1	20 A	(E) SPARE	36
37	(E) REC, 1D119	20 A	1		0	0						1	20 A	(E) SPARE	38
39	47-IDU-1D144A	15 A	2	1			312	0				1	20 A	(E) SPARE	40
41	--	--	--	--					312	0		1	20 A	(E) SPARE	42
				Total Conn. Load:	3333 VA		3645 VA		4365 VA						
				Total Amps:	28 A		31 A		37 A						

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Motor	624 VA	125.00%	780 VA		
REC,	720 VA	100.00%	720 VA	**Total Conn. Load:**	11344 VA
Telecommunications Equipment	10000 VA	50.00%	5000 VA	**Total Est. Demand:**	6500 VA
				Total Conn. Current:	31 A
				Total Est. Demand Current:	18 A

Notes:
1. REMOVE EXISTING 20A, 1P SPARE BREAKERS. CONTRACTOR SHALL VERIFY SPARE BREAKERS ARE NOT IN USE PRIOR TO REMOVAL. NEW BREAKER SHALL MATCH EXISTING PANEL MANUFACTURER AND AIC RATING AND SHALL MAINTAIN EXISTING UL RATING.

Branch Panel: 1A137A

Location: TR (EXISTING) 1A137
Supply From: (E) 2CLDA
Mounting: SURFACE
Enclosure: Type 1
Volts: 120/208 Wye
Phases: 3
Wires: 4
A.I.C. Rating: 10000
Mains Type: MCB
Mains Rating: 100 A
MCB Rating: 100 A

CKT	Circuit Description	Trip	Poles	Notes	A		B		C		Notes	Poles	Trip	Circuit Description	CKT
1	L21-30R LEG A, TR 1A136	30 A	3		3333	540						1	20 A	REC, TR 1A136	2
3	--	--	--	--			3333	0				1	20 A	SPARE	4
5	--	--	--	--					3333	0		1	20 A	SPARE	6
7	SPARE	30 A	3		0	0						1	20 A	SPARE	8
9	--	--	--	--			0	0				1	20 A	SPARE	10
11	--	--	--	--					0	0		1	20 A	SPARE	12
13	SPARE	20 A	1		0	0						1	20 A	SPARE	14
15	SPARE	20 A	1				0	0				1	20 A	SPARE	16
17	SPARE	20 A	1						0	0		1	20 A	SPARE	18
19	SPARE	20 A	1		0	0						1	20 A	SPARE	20
21	SPARE	20 A	1				0	0				1	20 A	SPARE	22
23	SPARE	20 A	1						0	0		1	20 A	SPARE	24
25	SPD	30 A	3	1	0	0						1	20 A	SPARE	26
27	--	--	--	--			0	0				1	20 A	SPARE	28
29	--	--	--	--					0	0		1	20 A	SPARE	30
				Total Conn. Load:	3873 VA		3333 VA		3333 VA						
				Total Amps:	32 A		28 A		28 A						

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
REC,	540 VA	100.00%	540 VA		
Telecommunications Equipment	10000 VA	50.00%	5000 VA	**Total Conn. Load:**	10540 VA
				Total Est. Demand:	5540 VA
				Total Conn. Current:	29 A
				Total Est. Demand Current:	15 A

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

Branch Panel: 1A137B

Location:
Supply From: (E) 1CLA1-B
Mounting: SURFACE
Enclosure: Type 1
Volts: 120/208 Wye
Phases: 3
Wires: 4
A.I.C. Rating: 10000
Mains Type: MCB
Mains Rating: 100 A
MCB Rating: 100 A

CKT	Circuit Description	Trip	Poles	Notes	A		B		C		Notes	Poles	Trip	Circuit Description	CKT
1	L21-30R LEG B, TR 1A136	30 A	3		3333	0						1	20 A	SPARE	2
3	--	--	--	--			3333	540				1	20 A	REC, TR 1A136	4
5	--	--	--	--					3333	0		1	20 A	SPARE	6
7	SPARE	30 A	3		0	0						1	20 A	SPARE	8
9	--	--	--	--			0	0				1	20 A	SPARE	10
11	--	--	--	--					0	0		1	20 A	SPARE	12
13	SPARE	20 A	1		0	0						1	20 A	SPARE	14
15	SPARE	20 A	1				0	0				1	20 A	SPARE	16
17	SPARE	20 A	1						0	0		1	20 A	SPARE	18
19	SPARE	20 A	1		0	0						1	20 A	SPARE	20
21	SPARE	20 A	1				0	0				1	20 A	SPARE	22
23	SPARE	20 A	1						0	0		1	20 A	SPARE	24
25	SPD	30 A	3	1	0	0						1	20 A	SPARE	26
27	--	--	--	--			0	0				1	20 A	SPARE	28
29	--	--	--	--					0	0		1	20 A	SPARE	30
				Total Conn. Load:	3333 VA		3873 VA		3333 VA						
				Total Amps:	28 A		32 A		28 A						

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
REC,	540 VA	100.00%	540 VA		
Telecommunications Equipment	10000 VA	50.00%	5000 VA	**Total Conn. Load:**	10540 VA
				Total Est. Demand:	5540 VA
				Total Conn. Current:	29 A
				Total Est. Demand Current:	15 A

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

Branch Panel: 1D144B

Location: TR (NEW) 1D144
Supply From: (E) 1CLD1-A
Mounting: SURFACE
Enclosure: Type 1
Volts: 120/208 Wye
Phases: 3
Wires: 4
A.I.C. Rating: 10000
Mains Type: MCB
Mains Rating: 100 A
MCB Rating: 100 A

CKT	Circuit Description	Trip	Poles	Notes	A		B		C		Notes	Poles	Trip	Circuit Description	CKT
1	L21-30R LEG B, TR 1D144	30 A	3		3333	720						1	20 A	REC, TR 1D144	2
3	--	--	--	--			3333	0				1	20 A	SPARE	4
5	--	--	--	--					3333	0		1	20 A	SPARE	6
7	SPARE	30 A	3		0	0						1	20 A	SPARE	8
9	--	--	--	--			0	0				1	20 A	SPARE	10
11	--	--	--	--					0	0		1	20 A	SPARE	12
13	SPARE	20 A	1		0	0						1	20 A	SPARE	14
15	SPARE	20 A	1				0	0				1	20 A	SPARE	16
17	SPARE	20 A	1						0	0		1	20 A	SPARE	18
19	SPARE	20 A	1		0	0						1	20 A	SPARE	20
21	SPARE	20 A	1				0	0				1	20 A	SPARE	22
23	SPARE	20 A	1						0	0		1	20 A	SPARE	24
25	SPD	30 A	3	1	0	0						1	20 A	SPARE	26
27	--	--	--	--			0	0				1	20 A	SPARE	28
29	--	--	--	--					0	0		1	20 A	SPARE	30
				Total Conn. Load:	4053 VA		3333 VA		3333 VA						
				Total Amps:	34 A		28 A		28 A						

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
REC,	720 VA	100.00%	720 VA		
Telecommunications Equipment	10000 VA	50.00%	5000 VA	**Total Conn. Load:**	10720 VA
				Total Est. Demand:	5720 VA
				Total Conn. Current:	30 A
				Total Est. Demand Current:	16 A

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

Branch Panel: (E) 1C6-2

Location: ELEC EQUIP 1D131
Supply From:
Mounting: Surface
Enclosure: Type 1
Volts: 120/208 Wye
Phases: 3
Wires: 4
A.I.C. Rating: 10000
Mains Type: MLO
Mains Rating: 100 A

CKT	Circuit Description	Trip	Poles	Notes	A		B		C		Notes	Poles	Trip	Circuit Description	CKT
1	(E) EQUIP	20 A	1		0	0						1	20 A	(E) REC	2
3	(E) EQUIP	20 A	1				0	0				1	20 A	(E) SPARE	4
5	(E) EQUIP	20 A	1						0	0		1	20 A	(E) SPARE	6
7	(E) EXHAUST FAN 59. 60	20 A	1		0	0						1	20 A	(E) 120 CIRCUIT	8
9	(E) EXHAUST FAN 33	20 A	1				0	0				1	20 A	(E) REC, 1D145	10
11	(E) ULTRASOUND LTS/REC	20 A	1						0	0		1	20 A	(E) REC, MRI	12
13	(E) SPARE	20 A	1		0	0						1	20 A	(E) REC, MRI	14
15	(E) SPARE	20 A	1				0	0				1	20 A	(E) BLANK PLATE 1D146	16
17	(E) SPARE	20 A	1						0	0		1	20 A	(E) SPARE	18
19	(E) SPARE	20 A	1		0	0						1	20 A	(E) SPARE	20
21	(E) SPARE	20 A	1				0	0				1	20 A	(E) SPARE	22
23	SPACE	--	1						--	0		1	20 A	(E) SPARE	24
25	SPACE	--	1		--	4053					1	3	100 A	PANEL 1D144A	26
27	SPACE	--	1				--	3333			--	--	--	--	28
29	SPACE	--	1						--	3333	--	--	--	--	30
				Total Conn. Load:	4053 VA		3333 VA		3333 VA						
				Total Amps:	34 A		28 A		28 A						

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
REC,	720 VA	100.00%	720 VA		
Telecommunications Equipment	10000 VA	50.00%	5000 VA	**Total Conn. Load:**	10720 VA
				Total Est. Demand:	5720 VA
				Total Conn. Current:	30 A
				Total Est. Demand Current:	16 A

Notes:
1. USE EXISTING AVAILABLE PANEL SPACE. CONTRACTOR SHALL VERIFY PANEL SPACE IS NOT IN USE PRIOR TO REMOVAL. NEW BREAKER SHALL MATCH EXISTING PANEL MANUFACTURER AND AIC RATING AND SHALL MAINTAIN EXISTING UL RATING.

Branch Panel: 1D144A

Location: TR (NEW) 1D144
Supply From: (E) 1C6-2
Mounting: SURFACE
Enclosure: Type 1
Volts: 120/208 Wye
Phases: 3
Wires: 4
A.I.C. Rating: 10000
Mains Type: MCB
Mains Rating: 100 A
MCB Rating: 100 A

CKT	Circuit Description	Trip	Poles	Notes	A		B		C		Notes	Poles	Trip	Circuit Description	CKT
1	L21-30R LEG A, TR 1D144	30 A	3		3333	720						1	20 A	REC, TR 1D144	2
3	--	--	--	--			3333	0				1	20 A	SPARE	4
5	--	--	--						3333	0		1	20 A	SPARE	6
7	SPARE	30 A	3		0	0						1	20 A	SPARE	8
9	--	--	--	--			0	0				1	20 A	SPARE	10
11	--	--	--	--					0	0		1	20 A	SPARE	12
13	SPARE	20 A	1		0	0						1	20 A	SPARE	14
15	SPARE	20 A	1				0	0				1	20 A	SPARE	16
17	SPARE	20 A	1						0	0		1	20 A	SPARE	18
19	SPARE	20 A	1		0	0						1	20 A	SPARE	20
21	SPARE	20 A	1				0	0				1	20 A	SPARE	22
23	SPARE	20 A	1						0	0		1	20 A	SPARE	24
25	SPD	30 A	3	1	0	0						1	20 A	SPARE	26
27	--	--	--	--			0	0				1	20 A	SPARE	28
29	--	--	--	--					0	0		1	20 A	SPARE	30
				Total Conn. Load:	4053 VA		3333 VA		3333 VA						
				Total Amps:	34 A		28 A		28 A						

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
REC,	720 VA	100.00%	720 VA		
Telecommunications Equipment	10000 VA	50.00%	5000 VA	**Total Conn. Load:**	10720 VA
				Total Est. Demand:	5720 VA
				Total Conn. Current:	30 A
				Total Est. Demand Current:	16 A

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

GENERAL NOTES:

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

PANEL SCHEDULE KEY PLAN

(E) 2CLDA	(E) 1CLA1-B	(E) 1CLD1-A
1A137A	1A137B	1D144B
(E) 1C6-2	1D144A	

Revisions: **Date:**

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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-EP608
Issue Date 12.19.2025
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Autodesk Docs://Asheville EHRM_V23/637-22-700.047 E ASH - EHRM.rvt
VA FORM 08 - 6231

Branch Panel: 1H113A

Location: TR (NEW) 1H113
Supply From: (E) 1C4
Mounting: SURFACE
Enclosure: Type 1
Volts: 120/208 Wye
Phases: 3
Wires: 4
A.I.C. Rating: 10000
Mains Type: MCB
Mains Rating: 100 A
MCB Rating: 100 A

CKT	Circuit Description	Trip	Poles	Notes	A		B		C		Notes	Poles	Trip	Circuit Description	CKT
1	L21-30R LEG A, TR 1H113	30 A	3		3333	540						1	20 A	REC, NEW TR 1H113	2
3	--	--	--	--			3333	0				1	20 A	SPARE	4
5	--	--	--	--					3333	0		1	20 A	SPARE	6
7	SPARE	30 A	3		0	0						1	20 A	SPARE	8
9	--	--	--	--			0	0				1	20 A	SPARE	10
11	--	--	--	--					0	0		1	20 A	SPARE	12
13	SPARE	20 A	1		0	0						1	20 A	SPARE	14
15	SPARE	20 A	1				0	0				1	20 A	SPARE	16
17	SPARE	20 A	1						0	0		1	20 A	SPARE	18
19	SPARE	20 A	1		0	0						1	20 A	SPARE	20
21	SPARE	20 A	1				0	0				1	20 A	SPARE	22
23	SPARE	20 A	1						0	0		1	20 A	SPARE	24
25	SPD	30 A	3	1	0	0						1	20 A	SPARE	26
27	--	--	--	--			0	0				1	20 A	SPARE	28
29	--	--	--	--					0	0		1	20 A	SPARE	30
				Total Conn. Load:	3873 VA		3333 VA		3333 VA						
				Total Amps:	32 A		28 A		28 A						

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
REC,	540 VA	100.00%	540 VA		
Telecommunications Equipment	10000 VA	50.00%	5000 VA	**Total Conn. Load:**	10540 VA
				Total Est. Demand:	5540 VA
				Total Conn. Current:	29 A
				Total Est. Demand Current:	15 A

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

Branch Panel: 1H113B

Location: TR (NEW) 1H113
Supply From: (E) 1C4
Mounting: SURFACE
Enclosure: Type 1
Volts: 120/208 Wye
Phases: 3
Wires: 4
A.I.C. Rating: 10000
Mains Type: MCB
Mains Rating: 100 A
MCB Rating: 100 A

CKT	Circuit Description	Trip	Poles	Notes	A		B		C		Notes	Poles	Trip	Circuit Description	CKT
1	L21-30R LEG B, TR 1H113	30 A	3		3333	0						1	20 A	SPARE	2
3	--	--	--	--			3333	720				1	20 A	REC, NEW TR 1H113	4
5	--	--	--	--					3333	0		1	20 A	SPARE	6
7	SPARE	30 A	3		0	0						1	20 A	SPARE	8
9	--	--	--	--			0	0				1	20 A	SPARE	10
11	--	--	--	--					0	0		1	20 A	SPARE	12
13	SPARE	20 A	1		0	0						1	20 A	SPARE	14
15	SPARE	20 A	1				0	0				1	20 A	SPARE	16
17	SPARE	20 A	1						0	0		1	20 A	SPARE	18
19	SPARE	20 A	1		0	0						1	20 A	SPARE	20
21	SPARE	20 A	1				0	0				1	20 A	SPARE	22
23	SPARE	20 A	1						0	0		1	20 A	SPARE	24
25	SPD	30 A	3	1	0	0						1	20 A	SPARE	26
27	--	--	--	--			0	0				1	20 A	SPARE	28
29	--	--	--	--					0	0		1	20 A	SPARE	30
				Total Conn. Load:	3333 VA		4053 VA		3333 VA						
				Total Amps:	28 A		34 A		28 A						

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
REC,	720 VA	100.00%	720 VA		
Telecommunications Equipment	10000 VA	50.00%	5000 VA	**Total Conn. Load:**	10720 VA
				Total Est. Demand:	5720 VA
				Total Conn. Current:	30 A
				Total Est. Demand Current:	16 A

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

Branch Panel: (E) 1C4

Location: NO ROOM...
Supply From:
Mounting: Surface
Enclosure: Type 1
Volts: 120/208 Wye
Phases: 3
Wires: 4
A.I.C. Rating: 10000
Mains Type: MCB
Mains Rating: 300 A
MCB Rating: 300 A

CKT	Circuit Description	Trip	Poles	Notes	A		B		C		Notes	Poles	Trip	Circuit Description	CKT
1	(E) TR 1C167 RECEPTACLE	20 A	1	2	0	0						1	20 A	(E) REC, EXAM RM	2
3	(E) REC, ELECTRICAL CLOSET	20 A	1				0	0				1	20 A	(E) REC, EXAM RM	4
5	(E) REC, RECEPTION AREA	20 A	1						0	0		1	20 A	(E) REC, EXAM RM	6
7	(E) REC, CORRIDOR AND DRESSING RM	20 A	1		0	0						1	20 A	(E) REC, EXAM RM	8
9	(E) REC, EXAM MINOR PROCEDURE	20 A	1				0	0				1	20 A	(E) REC, EXAM RM	10
11	(E) REC, EXAM MINOR PROCEDURE	20 A	1						0	312	1	2	15 A	47-IDU-1H113A	12
13	(E) REC, EXAM MINOR PROCEDURE	20 A	1		0	312					--	--	--	--	14
15	(E) REC, EXAM MINOR PROCEDURE	20 A	1				0	0				1	20 A	(E) SPARE	16
17	(E) REC, NON-INVASIVE VASCULAR	20 A	1						0	0		1	20 A	(E) SPARE	18
19	(E) REC, NON-INVASIVE VASCULAR	20 A	1		0	0						1	20 A	(E) NURSE CALL SYSTEM	20
21	(E) SPARE	20 A	1				0	0				1	20 A	(E) REC, BREAK RM REFRIGERATOR	22
23	(E) SPARE	20 A	1						0	0		1	20 A	(E) REC, NON-INVASIVE VASCULAR	24
25	(E) REC, CRASH CART	20 A	1		0	0						1	20 A	(E) REC, NON-INVASIVE VASCULAR	26
27	(E) REC, NURSE STATION AND MED RM	20 A	1				0	0				1	20 A	(E) SECURITY SYSTEM	28
29	(E) REC, NURSE STATION AND MED RM	20 A	1						0	0		1	20 A	(E) SPARE	30
31	(E) REC, CRYSTO RM	20 A	1		0	3873						1	3	100 A	PANEL 1H113A	32
33	(E) REC, CAST RM	20 A	1				0	3333				--	--	--	--	34
35	(E) SPARE	20 A	1						0	3333	--	--	--	--	36
37	(E) SPARE	20 A	1		0	3333						1	3	100 A	PANEL 1H113B	38
39	(E) UNKOWN LOAD	20 A	1				0	4053				--	--	--	--	40
41	(E) UNKOWN LOAD	20 A	1						0	3333	--	--	--	--	42
				Total Conn. Load:	7519 VA		7387 VA		6979 VA						
				Total Amps:	63 A		62 A		58 A						

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Motor	624 VA	125.00%	780 VA		
REC,	1260 VA	100.00%	1260 VA	**Total Conn. Load:**	21884 VA
Telecommunications Equipment	20000 VA	50.00%	10000 VA	**Total Est. Demand:**	12040 VA
				Total Conn. Current:	61 A
				Total Est. Demand Current:	33 A

Notes:
1. REMOVE EXISTING 20A, 1P SPARE BREAKERS. CONTRACTOR SHALL VERIFY SPARE BREAKERS ARE NOT IN USE PRIOR TO REMOVAL. NEW BREAKER SHALL MATCH EXISTING PANEL MANUFACTURER AND AIC RATING, AND MAINTAIN EXISTING PANEL UL RATING.
2. EXISTING CIRCUIT SERVING TR RM 1C167 TO BE DEMOLISHED UNDER THIS PROJECT.

Branch Panel: 1W133A

Location: TR (NEW) 1W133
Supply From: (E) 1CL4
Mounting: SURFACE
Enclosure: Type 1
Volts: 120/208 Wye
Phases: 3
Wires: 4
A.I.C. Rating: 10000
Mains Type: MCB
Mains Rating: 100 A
MCB Rating: 100 A

CKT	Circuit Description	Trip	Poles	Notes	A		B		C		Notes	Poles	Trip	Circuit Description	CKT
1	L21-30R LEG A, TR 1W133	30 A	3		3333	540						1	20 A	REC, NEW TR 1W133	2
3	--	--	--	--			3333	0				1	20 A	SPARE	4
5	--	--	--	--					3333	0		1	20 A	SPARE	6
7	SPARE	30 A	3		0	0						1	20 A	SPARE	8
9	--	--	--	--			0	0				1	20 A	SPARE	10
11	--	--	--	--					0	0		1	20 A	SPARE	12
13	SPARE	20 A	1		0	0						1	20 A	SPARE	14
15	SPARE	20 A	1				0	0				1	20 A	SPARE	16
17	SPARE	20 A	1						0	0		1	20 A	SPARE	18
19	SPARE	20 A	1		0	0						1	20 A	SPARE	20
21	SPARE	20 A	1				0	0				1	20 A	SPARE	22
23	SPARE	20 A	1						0	0		1	20 A	SPARE	24
25	SPD	30 A	3	1	0	0						1	20 A	SPARE	26
27	--	--	--	--			0	0				1	20 A	SPARE	28
29	--	--	--	--					0	0		1	20 A	SPARE	30
				Total Conn. Load:	3873 VA		3333 VA		3333 VA						
				Total Amps:	32 A		28 A		28 A						

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
REC,	540 VA	100.00%	540 VA		
Telecommunications Equipment	10000 VA	50.00%	5000 VA	**Total Conn. Load:**	10540 VA
				Total Est. Demand:	5540 VA
				Total Conn. Current:	29 A
				Total Est. Demand Current:	15 A

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

Branch Panel: 1W133B

Location: TR (NEW) 1W133
Supply From: (E) 1CL4
Mounting: SURFACE
Enclosure: Type 1
Volts: 120/208 Wye
Phases: 3
Wires: 4
A.I.C. Rating: 10000
Mains Type: MCB
Mains Rating: 100 A
MCB Rating: 100 A

CKT	Circuit Description	Trip	Poles	Notes	A		B		C		Notes	Poles	Trip	Circuit Description	CKT
1	L21-30R LEG B, TR 1W133	30 A	3		3333	0						1	20 A	SPARE	2
3	--	--	--	--			3333	540				1	20 A	REC, NEW TR 1W133	4
5	--	--	--	--					3333	0		1	20 A	SPARE	6
7	SPARE	30 A	3		0	0						1	20 A	SPARE	8
9	--	--	--	--			0	0				1	20 A	SPARE	10
11	--	--	--	--					0	0		1	20 A	SPARE	12
13	SPARE	20 A	1		0	0						1	20 A	SPARE	14
15	SPARE	20 A	1				0	0				1	20 A	SPARE	16
17	SPARE	20 A	1						0	0		1	20 A	SPARE	18
19	SPARE	20 A	1		0	0						1	20 A	SPARE	20
21	SPARE	20 A	1				0	0				1	20 A	SPARE	22
23	SPARE	20 A	1						0	0		1	20 A	SPARE	24
25	SPD	30 A	3	1	0	0						1	20 A	SPARE	26
27	--	--	--	--			0	0				1	20 A	SPARE	28
29	--	--	--	--					0	0		1	20 A	SPARE	30
				Total Conn. Load:	3333 VA		3873 VA		3333 VA						
				Total Amps:	28 A		32 A		28 A						

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
REC,	540 VA	100.00%	540 VA		
Telecommunications Equipment	10000 VA	50.00%	5000 VA	**Total Conn. Load:**	10540 VA
				Total Est. Demand:	5540 VA
				Total Conn. Current:	29 A
				Total Est. Demand Current:	15 A

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

Branch Panel: (E) 1CL4

Location: ELEC CL 1W147
Supply From:
Mounting: Surface
Enclosure: Type 1
Volts: 120/208 Wye
Phases: 3
Wires: 4
A.I.C. Rating: 65000
Mains Type: MCB
Mains Rating: 150 A
MCB Rating: 150 A

CKT	Circuit Description	Trip	Poles	Notes	A		B		C		Notes	Poles	Trip	Circuit Description	CKT
1	(E) REC, RMS 1W109, 110, 114, 115	20 A	1		0	0						1	20 A	(E) REC, RMS 1W121, 121A, 122, 123	2
3	(E) REC, RMS 1W117, 118, 119, 120	20 A	1				0	0				1	20 A	(E) REC, RMS 1W125, 126, 127, 128	4
5	(E) REC, RMS 1W139, 140, 142, 143, 144	20 A	1						0	0		1	20 A	(E) REC, RMS 1W145, 146, 148, 149	6
7	(E) REC, RMS 1W104, 105, 106, 107	20 A	1		0	0						1	20 A	(E) REC, RMS 1W129, 130, 131, 133	8
9	(E) REC, RM 1W102	20 A	1				0	0				1	20 A	(E) REC, WAITING RM	10
11	(E) EXAM LTS, RMS 1W104, 105	20 A	1						0	0		1	20 A	(E) EXAM, LTS RMS 1W127, 128	12
13	(E) REC, RM 1W103	20 A	1		0	0						1	20 A	(E) COPIER	14
15	(E) RM 1W150 OMNICELL	20 A	1				0	0				1	20 A	(E) REC, TELECOM RM	16
17	(E) REC, COR 1W154 CHARTING	20 A	1						0	0		1	20 A	(E) REC, FACP CLOSET	18
19	(E) REC, COR 1W151 CHARTING	20 A	1		0	0						1	20 A	(E) REC, ELEC RM 1W147	20
21	(E) PAGING ZONE AMP	20 A	1				0	0				1	20 A	(E) NURSE CALL CABINET	22
23	(E) REC, RM 1W134	20 A	1						0	0		1	20 A	(E) OMNICELL RM 1W150	24
25	(E) UNKOWN LOAD	20 A	1		0	0						1	20 A	(E) OMNICELL RM 1W150	26
27	(E) SPARE	20 A	1				0	0				1	20 A	(E) PYXIS RM 1W150	28
29	(E) SPARE	20 A	1						0	0		1	20 A	(E) PYXIS RM 1W150	30
31	(E) SPARE	20 A	1		0	0						1	20 A	(E) MED REF RM 1W150	32
33	(E) SPARE	20 A	1				0	0				1	20 A	(E) SPARE	34
35	(E) SPARE	20 A	1						0	0		1	20 A	(E) SPARE	36
37	PANEL 1W133A	100 A	3	1	3873	3333						1	3	100 A	PANEL 1W133B	38
39	--	--	--	--			3333	3873				--	--	--	--	40
41	--	--	--	--					3333	3333	--	--	--	--	42
				Total Conn. Load:	7207 VA		7207 VA		6667 VA						
				Total Amps:	61 A		61 A		56 A						

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
REC,	1080 VA	100.00%	1080 VA		
Telecommunications Equipment	20000 VA	50.00%	10000 VA	**Total Conn. Load:**	21080 VA
				Total Est. Demand:	11080 VA
				Total Conn. Current:	59 A
				Total Est. Demand Current:	31 A

Notes:
1. REMOVE THREE (3) EXISTING 20A, 1P SPARE BREAKERS AND INSTALL NEW 100A, 3P BREAKER FOR NEW TR ROOM PANEL. CONTRACTOR SHALL VERIFY SPARE BREAKERS ARE NOT IN USE PRIOR TO REMOVAL. NEW BREAKER SHALL MATCH EXISTING PANEL MANUFACTURER AND AIC RATING, AND MAINTAIN EXISTING PANEL UL RATING.

GENERAL NOTES:

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

PANEL SCHEDULE KEY PLAN

1H113A	1H113B	(E) 1C4
1W133A	1W133B	(E) 1CL4
-	-	

Revisions: **Date:**

ARCHITECT/ENGINEER OF RECORD

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12/18/2025

Facilities Management Services

VA U.S. Department of Veterans Affairs

Drawing Title: PANEL SCHEDULES
Approved:
FOR OFFICIAL USE ONLY

Phase: FINAL BID DOCUMENTS

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

Project Number: 637-22-700
Building Number: BLDG 47
Drawing Number: 47-EP607

VA FORM 08 - 6231
12/18/2025 5:25:32 PM
Autodesk Docs://Asheville EHRM_V23/637-22-700.047 E ASH - EHRM.rvt

Branch Panel: (E) 2CLA-A

Location: Space 425
Supply From: (E) 2CLDA
Mounting: Surface
Enclosure: Type 1
Volts: 120/208 Wye
Phases: 3
Wires: 4
A.I.C. Rating: 22000
Mains Type: MCB
Mains Rating: 200 A
MCB Rating: 200 A

CKT	Circuit Description	Trip	Poles	Notes	A	B	C	Notes	Poles	Trip	Circuit Description	CKT
1	(E) REC, 2A237	20 A	1		0 0				1	20 A	(E) SURGERY LIGHT 2A232, 241	2
3	(E) REC, 2A236	20 A	1			0 0			1	20 A	(E) SURGERY LIGHT 2A237, 240	4
5	(E) REC, 2A240	20 A	1				0 0		1	20 A	(E) SURGERY LIGHT 2A235, 236	6
7	(E) REC, 2A241	20 A	1		0 0				1	20 A	(E) SURGERY LIGHT 2A230, 231	8
9	(E) REC, 2A232	20 A	1			0 0			1	20 A	(E) SURGERY LIGHT 2A233, 234	10
11	(E) REC, 2A231	20 A	1				0 0		1	20 A	(E) FILM PROCESS 2A242	12
13	(E) REC, 2A253	20 A	1		0 0				1	20 A	(E) REC, 2A235	14
15	(E) REC, 2A252	20 A	1			0 0			1	20 A	(E) REC, 2A234	16
17	(E) REC, 2A253	20 A	1				0 0		1	20 A	(E) REC, 2A233	18
19	(E) REC, 2A254	20 A	1		0 0				1	20 A	(E) EXAM CHAIR 2A237	20
21	(E) REC, 2A254	20 A	1			0 0			1	20 A	(E) EXAM CHAIR 2A236	22
23	SPACE	--	1				-- 0		1	20 A	(E) EXAM CHAIR 2A235	24
25	(E) REC, 2A244	20 A	1		0 0				1	20 A	(E) EXAM CHAIR 2A234	26
27	(E) SURGERY LIGHT 2A252	20 A	1			0 0			1	20 A	(E) EXAM CHAIR 2A233	28
29	(E) SURGERY LIGHT 2A247	20 A	1				0 0		1	20 A	(E) EXAM CHAIR 2A241	30
31	(E) REC, 2A247	20 A	1		0 0				1	20 A	(E) EXAM CHAIR 2A240	32
33	(E) "SPARE"	20 A	1			0 0			1	20 A	(E) EXAM CHAIR 2A232	34
35	(E) "SPARE"	20 A	1				0 0		1	20 A	(E) EXAM CHAIR 2A231	36
37	(E) "SPARE"	20 A	1		0 0				1	20 A	(E) EXAM CHAIR 2A230	38
39	(E) X-RAY UNIT 2A254	20 A	2			0 0			1	20 A	(E) EXAM CHAIR 2A253	40
41	--	--	--	--			0 0		1	20 A	(E) EXAM CHAIR 2A252	42
				Total Conn. Load:	6037 VA	8741 VA	6577 VA					
				Total Amps:	50 A	74 A	56 A					

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
HVAC	10816 VA	100.00%	10816 VA		
REC,	540 VA	100.00%	540 VA	**Total Conn. Load:**	21356 VA
Telecommunications Equipment	10000 VA	50.00%	5000 VA	**Total Est. Demand:**	16356 VA
				Total Conn. Current:	59 A
				Total Est. Demand Current:	45 A

Notes:
1. PANEL SCHEDULE SHOWN FOR REFERENCE ONLY. NO MODIFICATIONS TO THIS PANEL.

Branch Panel: (E) 2CLA-B

Location: Space 425
Supply From: (E) 2CLA-A
Mounting: Surface
Enclosure: Type 1
Volts: 120/208 Wye
Phases: 3
Wires: 4
A.I.C. Rating: 22000
Mains Type: MLO
Mains Rating: 200 A

CKT	Circuit Description	Trip	Poles	Notes	A	B	C	Notes	Poles	Trip	Circuit Description	CKT
1	(E) REC, 2A250	20 A	1		0 0				1	20 A	(E) REC, 2A245	2
3	(E) CURING MACH 2A250	20 A	1			0 0			1	20 A	(E) REC, 2A246	4
5	(E) CASTING MACH 2A250	30 A	2				0 0		1	20 A	(E) SPARE	6
7	--	--	--	--	0 0				1	20 A	(E) REC, 2A249	8
9	(E) GAS SOLENOIDS DENTAIL	20 A	1			0 0			1	20 A	(E) DENTAIL CAB 2A246	10
11	(E) REC, 2A250	20 A	1				0 0		1	20 A	(E) NURSE CALL SYSTEM 2A246	12
13	(E) REC, 2A229	20 A	1		0 0				1	20 A	(E) REC 2A220, 222, 223, 2A224	14
15	(E) SPARE	20 A	1			0 0			1	20 A	(E) SPARE	16
17	(E) SPARE	20 A	1				0 0		1	20 A	(E) REC, 2A217, 216, 215, 2A228	18
19	(E) UNKOWN LOAD	20 A	1		0 0				2	30 A	(E) UNKOWN LOAD	20
21	47-ODU-1A137	65 A	2	2		2704 0		--	--	--	--	22
23	--	--	--	--			2704 3873	1	3	100 A	2A246B	24
25	47-ODU-2A246	65 A	2	2	2704 3333			--	--	--	--	26
27	--	--	--	--		2704 3333		--	--	--	--	28
29	SPACE	--	1				-- --		1	--	SPACE	30
31	SPACE	--	1		-- --				1	--	SPACE	32
33	SPACE	--	1			-- --			1	--	SPACE	34
35	SPACE	--	1				-- --		1	--	SPACE	36
37	SPACE	--	1		-- --				1	--	SPACE	38
39	SPACE	--	1			-- --			1	--	SPACE	40
41	SPACE	--	1				-- --		1	--	SPACE	42
				Total Conn. Load:	6037 VA	8741 VA	6577 VA					
				Total Amps:	50 A	74 A	56 A					

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
HVAC	10816 VA	100.00%	10816 VA		
REC,	540 VA	100.00%	540 VA	**Total Conn. Load:**	21356 VA
Telecommunications Equipment	10000 VA	50.00%	5000 VA	**Total Est. Demand:**	16356 VA
				Total Conn. Current:	59 A
				Total Est. Demand Current:	45 A

Notes:
1. INSTALL NEW 100A, 3P BREAKER USING EXISTING AVAILABLE PANEL SPACE. CONTRACTOR SHALL VERIFY PANEL SPACE IS NOT IN USE PRIOR TO REMOVAL. NEW BREAKER SHALL MATCH EXISTING PANEL MANUFACTURER AND AIC RATING AND SHALL MAINTAIN EXISTING UL RATING.
2. NEW BREAKER SHALL MATCH EXISTING PANEL MANUFACTURER AND AIC RATING, AND SHALL MAINTAIN PANEL UL RATING.

Branch Panel: (E) 2CL1

Location: Space 425
Supply From:
Mounting: Surface
Enclosure: Type 1
Volts: 120/208 Wye
Phases: 3
Wires: 4
A.I.C. Rating: 22000
Mains Type: MCB
Mains Rating: 110 A
MCB Rating: 110 A

CKT	Circuit Description	Trip	Poles	Notes	A	B	C	Notes	Poles	Trip	Circuit Description	CKT
1	(E) NURSE CALL SYSTEM	20 A	1		0 0				1	20 A	(E) RECEPT CHARTING 3&4	2
3	(E) CODE BLUE SYSTEM	20 A	1			0 0			1	20 A	(E) RECEPT CHARTING 2&3	4
5	(E) RECEPT CHARTING	20 A	1				0 0		1	20 A	(E) RECEPT CHARTING 1	6
7	(E) RECEPT CHARTING 2C232	20 A	1		0 0				1	20 A	(E) CRASH CART 2C238	8
9	(E) RECEPT 2C201, 2C202	20 A	1			0 0			1	20 A	(E) RECEPT 2C238, 37, 39, 40	10
11	(E) RECEPT 2C203	20 A	1				0 0		1	20 A	(E) RECEPT CHARTING 5&6	12
13	(E) RECEPT 2C244, 2C245	20 A	1		0 0				1	20 A	(E) RECEPT CHARTING 12	14
15	(E) RECEPT 2C229A	20 A	1			0 0			1	20 A	(E) RECEPT CHARTING 10 & 11	16
17	(E) RECEPT REF 2C229A	20 A	1				0 0		1	20 A	(E) RECEPT CHARTING 9 & 10	18
19	SPARE	20 A	1		0 0				1	20 A	(E) RECEPT CHARTING 7 & 8	20
21	SPARE	20 A	1			0 0			1	20 A	(E) RECEPT CONF, 2C214	22
23	SPARE	20 A	1				0 0		1	20 A	(E) RECEPT REF 2C212	24
25	SPARE	20 A	1		0 0				1	20 A	(E) RECEPT 2C212	26
27	SPARE	20 A	1			0 0			1	20 A	(E) RECEPT 2C233, 2C235	28
29	SPARE	20 A	1				0 0		1	20 A	(E) RECEPT 2C231	30
31	PANEL 2E202A	100 A	3	1, 2	4053 0				1	20 A	(E) RECEPT PYXIS WALL 2C230	32
33	--	--	--	--		3333 0			1	20 A	(E) RECEPT MED ROOM 2C230	34
35	--	--	--	--			3333 0		1	20 A	(E) RECEPT MED ROOM 2C230	36
37	SPARE	30 A	3		0 0				1	20 A	(E) RECEPT NURSE 2C229	38
39	--	--	--	--		0 0			1	20 A	(E) RECEPT NURSE 2C229	40
41	--	--	--				0 0		1	20 A	SPARE	42
				Total Conn. Load:	4053 VA	3333 VA	3333 VA					
				Total Amps:	34 A	28 A	28 A					

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
REC,	720 VA	100.00%	720 VA		
Telecommunications Equipment	10000 VA	50.00%	5000 VA	**Total Conn. Load:**	10720 VA
				Total Est. Demand:	5720 VA
				Total Conn. Current:	30 A
				Total Est. Demand Current:	16 A

Notes:
1. REMOVE EXISTING 20A, 1P SPARE BREAKERS AND INSTALL NEW 100A, 3P BREAKER. CONTRACTOR SHALL VERIFY PANEL SPACE IS NOT IN USE PRIOR TO REMOVAL. NEW BREAKER SHALL MATCH EXISTING PANEL MANUFACTURER AND AIC RATING AND SHALL MAINTAIN EXISTING UL RATING.
2. CONTRACTOR SHALL ENSURE NEW BREAKER CAN BE SELECTIVELY COORDINATED WITH PANEL MAIN BREAKER.

Branch Panel: 2A246A

Location: Space 425
Supply From: (E) 2CLDA
Mounting: SURFACE
Enclosure: Type 1
Volts: 120/208 Wye
Phases: 3
Wires: 4
A.I.C. Rating: 10000
Mains Type: MCB
Mains Rating: 100 A
MCB Rating: 100 A

CKT	Circuit Description	Trip	Poles	Notes	A	B	C	Notes	Poles	Trip	Circuit Description	CKT
1	L21-30R LEG A, TR 2A246	30 A	3		3333 540				1	20 A	REC, TR 2A246	2
3	--	--	--	--		3333 0			1	20 A	SPARE	4
5	--	--	--				3333 0		1	20 A	SPARE	6
7	SPARE	30 A	3		0 0				1	20 A	SPARE	8
9	--	--	--	--		0 0			1	20 A	SPARE	10
11	--	--	--	--			0 0		1	20 A	SPARE	12
13	SPARE	20 A	1		0 0				1	20 A	SPARE	14
15	SPARE	20 A	1			0 0			1	20 A	SPARE	16
17	SPARE	20 A	1				0 0		1	20 A	SPARE	18
19	SPARE	20 A	1		0 0				1	20 A	SPARE	20
21	SPARE	20 A	1			0 0			1	20 A	SPARE	22
23	SPARE	20 A	1				0 0		1	20 A	SPARE	24
25	SPD	30 A	3	1	0 0				1	20 A	SPARE	26
27	--	--	--	--		0 0			1	20 A	SPARE	28
29	--	--	--	--			0 0		1	20 A	SPARE	30
				Total Conn. Load:	3873 VA	3333 VA	3333 VA					
				Total Amps:	32 A	28 A	28 A					

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
REC,	540 VA	100.00%	540 VA		
Telecommunications Equipment	10000 VA	50.00%	5000 VA	**Total Conn. Load:**	10540 VA
				Total Est. Demand:	5540 VA
				Total Conn. Current:	29 A
				Total Est. Demand Current:	15 A

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

Branch Panel: 2A246B

Location:
Supply From: (E) 2CLA-B
Mounting: SURFACE
Enclosure: Type 1
Volts: 120/208 Wye
Phases: 3
Wires: 4
A.I.C. Rating: 10000
Mains Type: MCB
Mains Rating: 100 A
MCB Rating: 100 A

CKT	Circuit Description	Trip	Poles	Notes	A	B	C	Notes	Poles	Trip	Circuit Description	CKT
1	L21-30R LEG B, TR 2A246	30 A	3		3333 540				1	20 A	REC, TR 2A246	2
3	--	--	--	--		3333 0			1	20 A	SPARE	4
5	--	--	--				3333 0		1	20 A	SPARE	6
7	SPARE	30 A	3		0 0				1	20 A	SPARE	8
9	--	--	--	--		0 0			1	20 A	SPARE	10
11	--	--	--	--			0 0		1	20 A	SPARE	12
13	SPARE	20 A	1		0 0				1	20 A	SPARE	14
15	SPARE	20 A	1			0 0			1	20 A	SPARE	16
17	SPARE	20 A	1				0 0		1	20 A	SPARE	18
19	SPARE	20 A	1		0 0				1	20 A	SPARE	20
21	SPARE	20 A	1			0 0			1	20 A	SPARE	22
23	SPARE	20 A	1				0 0		1	20 A	SPARE	24
25	SPD	30 A	3	1	0 0				1	20 A	SPARE	26
27	--	--	--	--		0 0			1	20 A	SPARE	28
29	--	--	--	--			0 0		1	20 A	SPARE	30
				Total Conn. Load:	3873 VA	3333 VA	3333 VA					
				Total Amps:	32 A	28 A	28 A					

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
REC,	540 VA	100.00%	540 VA		
Telecommunications Equipment	10000 VA	50.00%	5000 VA	**Total Conn. Load:**	10540 VA
				Total Est. Demand:	5540 VA
				Total Conn. Current:	29 A
				Total Est. Demand Current:	15 A

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

Branch Panel: (E) 2CL2

Location: Space 425
Supply From:
Mounting: Surface
Enclosure: Type 1
Volts: 120/208 Wye
Phases: 3
Wires: 4
A.I.C. Rating: 10000
Mains Type: MCB
Mains Rating: 110 A
MCB Rating: 110 A

CKT	Circuit Description	Trip	Poles	Notes	A	B	C	Notes	Poles	Trip	Circuit Description	CKT
1	(E) NURSE CALL SYSTEM	20 A	1		0 0				1	20 A	(E) REC, CHART STAT 2E230	2
3	(E) SPARE	20 A	1			0 0			1	20 A	(E) REC, TECH 2E299	4
5	(E) REC, 2E200, 2E201	20 A	1				0 0		1	20 A	(E) REC, 2E232, 2E233	6
7	(E) REC, WAITING 2E202	20 A	1		0 0				1	20 A	(E) REC, 2E227, 2E234	8
9	(E) REC, CONF 2E205	20 A	1			0 0			1	20 A	(E) REC, NURSE STAT 2E226	10
11	(E) REC, EQUIP STOR 2E206	20 A	1				0 0		1	20 A	(E) REC, MED RM 2E228	12
13	(E) REC, CORRIDOR 2E237	20 A	1		0 0				1	20 A	(E) REC, MED RM 2E228	14
15	(E) REC, CHARTING 10-13	20 A	1			0 0			1	20 A	(E) REC, MED RM REF 2E228	16
17	(E) 120V, 20 AMP CKT	20 A	1				0 0		1	20 A	(E) MAG LOCK	18
19	(E) REC, CHARTING 5, 6	20 A	1		0 0				1	20 A	(E) PLUG IN STRIP, STRETCHER	20
21	(E) REC, CHARTING 3, 4	20 A	1			0 0			1	20 A	(E) MINIFRIDGE WOMENS LOCKER	22
23	(E) REC, CHARTING 1, 2	20 A	1				0 0		1	20 A	(E) REC, WOMENS LOCKER RM	24
25	(E) REC, LOUNGE REF 2E216	20 A	1		0 0				1	20 A	(E) BLANKET WARMER	26
27	(E) REC, OFFICE 2E208	20 A	1			0 3873		1	3	100 A	PANEL 2E202B	28
29	(E) SPARE	20 A	1				0 3333	--	--	--	--	30
31	(E) SPARE	20 A	1		0 3333			--	--	--	--	32
33	(E) SPARE	20 A	1			0 0			1	20 A	SPARE	34
35	(E) SPARE	20 A	1				0 0		1	20 A	SPARE	36
37	(E) SPARE	20 A	1		0 0				1	20 A	SPARE	38
39	(E) SPARE	20 A	1			0 0			1	20 A	SPARE	40
41	(E) SPARE	20 A	1				0 0		1	20 A	SPARE	42
				Total Conn. Load:	3333 VA	3873 VA	3333 VA					
				Total Amps:	28 A	32 A	28 A					

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
REC,	540 VA	100.00%	540 VA		
Telecommunications Equipment	10000 VA	50.00%	5000 VA	**Total Conn. Load:**	10540 VA
				Total Est. Demand:	5540 VA
				Total Conn. Current:	29 A
				Total Est. Demand Current:	15 A

Notes:
1. REMOVE THREE (3) EXISTING 20A, 1P SPARE BREAKERS AND INSTALL NEW 100A, 3P BREAKER. CONTRACTOR SHALL VERIFY PANEL SPACE IS NOT IN USE PRIOR TO REMOVAL. NEW BREAKER SHALL MATCH EXISTING PANEL MANUFACTURER AND AIC RATING AND SHALL MAINTAIN EXISTING UL RATING.

Branch Panel: 2E202A

Location:
Supply From: (E) 2CL1
Mounting: SURFACE
Enclosure: Type 1
Volts: 120/208 Wye
Phases: 3
Wires: 4
A.I.C. Rating: 10000
Mains Type: MCB
Mains Rating: 100 A
MCB Rating: 100 A

CKT	Circuit Description	Trip	Poles	Notes	A	B	C	Notes	Poles	Trip	Circuit Description	CKT
1	L21-30R LEG A, TR 2E202A	30 A	3		3333 720				1	20 A	REC, TR (NEW) 2E202A	2
3	--	--	--	--		3333 0			1	20 A	SPARE	4
5	--	--	--				3333 0		1	20 A	SPARE	6
7	SPARE	30 A	3		0 0				1	20 A	SPARE	8
9	--	--	--	--		0 0			1	20 A	SPARE	10
11	--	--	--	--			0 0		1	20 A	SPARE	12
13	SPARE	20 A	1		0 0				1	20 A	SPARE	14
15	SPARE	20 A	1			0 0			1	20 A	SPARE	16
17	SPARE	20 A	1				0 0		1	20 A	SPARE	18
19	SPARE	20 A	1		0 0				1	20 A	SPARE	20
21	SPARE	20 A	1			0 0			1	20 A	SPARE	22
23	SPARE	20 A	1				0 0		1	20 A	SPARE	24
25	SPD	30 A	3	1	0 0				1	20 A	SPARE	26
27	--	--	--	--		0 0			1	20 A	SPARE	28
29	--	--	--	--			0 0		1	20 A	SPARE	30
				Total Conn. Load:	4053 VA	3333 VA	3333 VA					
				Total Amps:	34 A	28 A	28 A					

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
REC,	720 VA	100.00%	720 VA		
Telecommunications Equipment	10000 VA	50.00%	5000 VA	**Total Conn. Load:**	10720 VA
				Total Est. Demand:	5720 VA
				Total Conn. Current:	30 A
				Total Est. Demand Current:	16 A

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

Branch Panel: 2E202B

Location:
Supply From: (E) 2CL2
Mounting: SURFACE
Enclosure: Type 1
Volts: 120/208 Wye
Phases: 3
Wires: 4
A.I.C. Rating: 10000
Mains Type: MCB
Mains Rating: 100 A
MCB Rating: 100 A

CKT	Circuit Description	Trip	Poles	Notes	A	B	C	Notes	Poles	Trip	Circuit Description	CKT
1	L21-30R LEG B, TR 2E202A	30 A	3		3333 540				1	20 A	REC, TR (NEW) 2E202A	2
3	--	--	--	--		3333 0			1	20 A	SPARE	4
5	--	--	--				3333 0		1	20 A	SPARE	6
7	SPARE	30 A	3		0 0				1	20 A	SPARE	8
9	--	--	--	--		0 0			1	20 A	SPARE	10
11	--	--	--	--			0 0		1	20 A	SPARE	12
13	SPARE	20 A	1		0 0				1	20 A	SPARE	14
15	SPARE	20 A	1			0 0			1	20 A	SPARE	16
17	SPARE	20 A	1				0 0		1	20 A	SPARE	18
19	SPARE	20 A	1		0 0				1	20 A	SPARE	20
21	SPARE	20 A	1			0 0			1	20 A	SPARE	22
23	SPARE	20 A	1				0 0		1	20 A	SPARE	24
25	SPD	30 A	3	1	0 0				1	20 A	SPARE	26
27	--	--	--	--		0 0			1	20 A	SPARE	28
29	--	--	--	--			0 0		1	20 A	SPARE	30
				Total Conn. Load:	3873 VA	3333 VA	3333 VA					
				Total Amps:	32 A	28 A	28 A					

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
REC,	540 VA	100.00%	540 VA		
Telecommunications Equipment	10000 VA	50.00%	5000 VA	**Total Conn. Load:**	10540 VA
				Total Est. Demand:	5540 VA
				Total Conn. Current:	29 A
				Total Est. Demand Current:	15 A

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

GENERAL NOTES:

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

PANEL SCHEDULE KEY PLAN

(E) 2CLA-A	(E) 2CLA-B	(E) 2CL1
2A246A	2A246B	(E) 2CL2
2E202A	2E202B	

Revisions:	Date:

ARCHITECT/ENGINEER OF RECORD

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12/18/2025

Facilities Management Services

VA U.S. Department of Veterans Affairs

Drawing Title PANEL SCHEDULES
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-EP609
SHEET 403 of 559

12/18/2025 5:25:34 PM
Autodesk Docs://Asheville EHRM, V23/637-22-700.047 E-ASH - EHRM.rvt

Branch Panel: (E) 2CLB1-B

Location: Space 425
Supply From: (E) 1CLDB
Mounting: SURFACE
Enclosure: Type 1
Volts: 120/208 Wye
Phases: 3
Wires: 4
A.I.C. Rating: 22000
Mains Type: MCB
Mains Rating: 200 A
MCB Rating: 200 A

CKT	Circuit Description	Trip	Poles	Notes	A		B		C		Notes	Poles	Trip	Circuit Description	CKT
1	(E) REC, 2B213	20 A	1		0	0						1	20 A	(E) REC, 2B249	2
3	(E) REC, 2B212	20 A	1				0	0				1	20 A	(E) REC, 2B249	4
5	(E) NURSE CALL	20 A	1						0	0		1	20 A	(E) REC, 2B249	6
7	(E) UNKNOWN LOAD	20 A	1		0	0						1	20 A	(E) REC, 2B249	8
9	(E) ICE MACHINE 2B229	20 A	1				0	0				1	20 A	(E) REC, 2B249	10
11	(E) STER. CNTRL 2B229	20 A	1						0	0		1	20 A	(E) REC, 2B250	12
13	(E) STERILIZER 2B229	30 A	3		0	0						1	20 A	(E) REC, 2B250	14
15	--	--	--	--			0	0				1	20 A	(E) REC, 2B250	16
17	--	--	--	--					0	0		1	20 A	(E) REC, 2B250	18
19	(E) CONTROL RM	20 A	1		0	0						1	20 A	(E) REC, 2B250	20
21	(E) UNKNOWN LOAD	20 A	1				0	0				1	20 A	(E) REC, 2B250	22
23	(E) STERIS INTEGRATION	20 A	1						0	0		1	20 A	(E) REC, 2B250	24
25	(E) UNKNOWN LOAD	30 A	2		0	0						1	20 A	(E) REC, 2B223	26
27	--	--	--	--			0	0				1	20 A	(E) UNKNOWN LOAD	28
29	(E) UNKNOWN LOAD	30 A	1						0	0		1	20 A	(E) UNKNOWN LOAD	30
31	(E) MRI EQUIP RM DR7	50 A	2		0	0						2	30 A	(E) UNKNOWN LOAD	32
33	--	--	--	--			0	0			--	--	--	--	34
35	(E) UNKNOWN LOAD	30 A	2						0	--		1	--	SPACE	36
37	--	--	--	--	0	3333					1	3	100 A	PANEL 2B212B	38
39	(E) UNKNOWN LOAD	30 A	1				0	3873			--	--	--	--	40
41	(E) UNKNOWN LOAD	30 A	1						0	3333	--	--	--	--	42
				Total Conn. Load:	3333 VA		3873 VA		3333 VA						
				Total Amps:	28 A		32 A		28 A						

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
REC,	540 VA	100.00%	540 VA		
Telecommunications Equipment	10000 VA	50.00%	5000 VA	**Total Conn. Load:**	10540 VA
				Total Est. Demand:	5540 VA
				Total Conn. Current:	29 A
				Total Est. Demand Current:	15 A

Notes:
1. INSTALL NEW 100A, 3P BREAKER USING EXISTING AVAILABLE PANEL SPACE. CONTRACTOR SHALL VERIFY PANEL SPACE IS NOT IN USE PRIOR TO REMOVAL. NEW BREAKER SHALL MATCH EXISTING PANEL MANUFACTURER AND AIC RATING AND SHALL MAINTAIN EXISTING UL RATING.

Branch Panel: (E) 3CL1-1

Location: ELEC FMS A365A
Supply From:
Mounting: Surface
Enclosure: Type 1
Volts: 120/208 Wye
Phases: 3
Wires: 4
A.I.C. Rating: 22000
Mains Type: MCB
Mains Rating: 150 A
MCB Rating: 150 A

CKT	Circuit Description	Trip	Poles	Notes	A		B		C		Notes	Poles	Trip	Circuit Description	CKT
1	(E) 3C2 J-BOX EXECUTIVE SUITE	20 A	1		0	0						1	20 A	(E) 3 SOUTH B315	2
3	(E) SPARE	20 A	1				0	0				1	20 A	(E) 3 SOUTH B315	4
5	(E) 3C2 J-BOX EXECUTIVE SUITE	20 A	1						0	0		1	20 A	(E) 3 SOUTH B315	6
7	(E) 3C2 J-BOX EXECUTIVE SUITE	20 A	1		0	0						1	20 A	(E) 3 SOUTH B315	8
9	(E) 3C2 J-BOX EXECUTIVE SUITE	20 A	1				0	0				1	20 A	(E) 3 SOUTH B315	10
11	(E) SPARE	20 A	1						0	0		1	20 A	(E) SPARE	12
13	(E) SPARE	20 A	1		0	0						1	20 A	(E) SPARE	14
15	(E) SPARE	20 A	1				0	0				1	20 A	(E) SPARE	16
17	(E) SPARE	20 A	1						0	0		1	20 A	(E) SPARE	18
19	(E) SPARE	20 A	1		0	0						1	20 A	(E) SPARE	20
21	(E) SPARE	20 A	1				0	0				1	20 A	(E) SPARE	22
23	(E) SPARE	20 A	1						0	0		1	20 A	(E) SPARE	24
25	(E) SPARE	20 A	1		0	0						1	20 A	(E) SPARE	26
27	(E) SPARE	20 A	1				0	0				1	20 A	(E) SPARE	28
29	(E) SPARE	20 A	1						0	0		1	20 A	(E) SPARE	30
31	(E) SPARE	20 A	1		0	--						1	--	SPACE	32
33	SPACE	--	1				--	--				1	--	SPACE	34
35	SPACE	--	1						--	--		1	--	SPACE	36
37	PANEL A301A	100 A	3	1	4053	--						1	--	SPACE	38
39	--	--	--	--			3333	--				1	--	SPACE	40
41	--	--	--	--					3333	--		1	--	SPACE	42
				Total Conn. Load:	4053 VA		3333 VA		3333 VA						
				Total Amps:	34 A		28 A		28 A						

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
REC,	720 VA	100.00%	720 VA		
Telecommunications Equipment	10000 VA	50.00%	5000 VA	**Total Conn. Load:**	10720 VA
				Total Est. Demand:	5720 VA
				Total Conn. Current:	30 A
				Total Est. Demand Current:	16 A

Notes:
1. INSTALL NEW 100A, 3P BREAKER USING EXISTING AVAILABLE PANEL SPACE. CONTRACTOR SHALL VERIFY PANEL SPACE IS NOT IN USE PRIOR TO REMOVAL. NEW BREAKER SHALL MATCH EXISTING PANEL MANUFACTURER AND AIC RATING AND SHALL MAINTAIN EXISTING UL RATING.

Branch Panel: (E) 3CL1-2

Location: ELEC FMS A365A
Supply From:
Mounting: Surface
Enclosure: Type 1
Volts: 120/208 Wye
Phases: 3
Wires: 4
A.I.C. Rating: 22000
Mains Type: MCB
Mains Rating: 150 A
MCB Rating: 150 A

CKT	Circuit Description	Trip	Poles	Notes	A		B		C		Notes	Poles	Trip	Circuit Description	CKT
1	(E) REC, B331	20 A	1		0	3333					1	3	100 A	PANEL A301B	2
3	(E) REC, B326, B328	20 A	1				0	3693			--	--	--	--	4
5	(E) REC, B325	20 A	1						0	3333	--	--	--	--	6
7	(E) REC, B311, B322	20 A	1		0	0						1	20 A	(E) SPARE	8
9	(E) REC, B306-B309	20 A	1				0	0				1	20 A	(E) SPARE	10
11	(E) REC, B335, B336, B338	20 A	1						0	0		1	20 A	(E) SPARE	12
13	(E) REC, B342	20 A	1		0	0						1	20 A	(E) REC, B319	14
15	(E) REC, B342	20 A	1				0	0				1	20 A	(E) REC, B319	16
17	(E) REC, B343, B344	20 A	1						0	0		1	20 A	(E) REC, B302	18
19	(E) REC, B341, B345-B347	20 A	1		0	0						1	20 A	(E) SPARE	20
21	(E) REC, B339, B340	20 A	1				0	0				1	20 A	(E) SPARE	22
23	(E) REC, B313, B314, B315	20 A	1						0	0		1	20 A	(E) SPARE	24
25	(E) REC, B317, B318	20 A	1		0	0						1	20 A	(E) UNKNOWN LOAD	26
27	(E) REC, B320, B321	20 A	1				0	0				1	20 A	(E) SPARE	28
29	(E) REC, B327, B329, B33	20 A	1						0	0		1	20 A	(E) SPARE	30
31	(E) REC, B319	20 A	1		0	0						1	20 A	(E) SPARE	32
33	(E) REC, B339	20 A	1				0	0				1	20 A	(E) SPARE	34
35	(E) REC, CORR B348	20 A	1						0	0		1	20 A	(E) SPARE	36
37	(E) REC, B339	20 A	1		0	0						1	20 A	(E) SPARE	38
39	(E) SPARE	20 A	1				0	0				1	20 A	(E) SPARE	40
41	(E) REC, B315 CEILING	20 A	1						0	0		1	20 A	(E) REC, CONF. TM, DIN SUITE	42
				Total Conn. Load:	3333 VA		3693 VA		3333 VA						
				Total Amps:	28 A		31 A		28 A						

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
REC,	360 VA	100.00%	360 VA		
Telecommunications Equipment	10000 VA	50.00%	5000 VA	**Total Conn. Load:**	10360 VA
				Total Est. Demand:	5360 VA
				Total Conn. Current:	29 A
				Total Est. Demand Current:	15 A

Notes:
1. REMOVE THREE (3) EXISTING 20A, 1P SPARE BREAKERS AND INSTALL NEW 100A, 3P BREAKER. CONTRACTOR SHALL VERIFY SPARE BREAKERS ARE NOT IN USE PRIOR TO REMOVAL. NEW BREAKER SHALL MATCH EXISTING PANEL MANUFACTURER AND AIC RATING AND SHALL MAINTAIN EXISTING UL RATING.

Branch Panel: 2B212A

Location: Space 425
Supply From: (E) 1CLDB
Mounting: SURFACE
Enclosure: Type 1
Volts: 120/208 Wye
Phases: 3
Wires: 4
A.I.C. Rating: 10000
Mains Type: MCB
Mains Rating: 100 A
MCB Rating: 100 A

CKT	Circuit Description	Trip	Poles	Notes	A		B		C		Notes	Poles	Trip	Circuit Description	CKT
1	L21-30R LEG A, TR 2B212	30 A	3		3333	540						1	20 A	REC, TR 2B212	2
3	--	--	--	--			3333	0				1	20 A	SPARE	4
5	--	--	--	--					3333	0		1	20 A	SPARE	6
7	SPARE	30 A	3		0	0						1	20 A	SPARE	8
9	--	--	--	--			0	0				1	20 A	SPARE	10
11	--	--	--	--					0	0		1	20 A	SPARE	12
13	SPARE	20 A	1		0	0						1	20 A	SPARE	14
15	SPARE	20 A	1				0	0				1	20 A	SPARE	16
17	SPARE	20 A	1						0	0		1	20 A	SPARE	18
19	SPARE	20 A	1		0	0						1	20 A	SPARE	20
21	SPARE	20 A	1				0	0				1	20 A	SPARE	22
23	SPARE	20 A	1						0	0		1	20 A	SPARE	24
25	SPD	30 A	3	1	0	0						1	20 A	SPARE	26
27	--	--	--	--			0	0				1	20 A	SPARE	28
29	--	--	--	--					0	0		1	20 A	SPARE	30
				Total Conn. Load:	3873 VA		3333 VA		3333 VA						
				Total Amps:	32 A		28 A		28 A						

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
REC,	540 VA	100.00%	540 VA		
Telecommunications Equipment	10000 VA	50.00%	5000 VA	**Total Conn. Load:**	10540 VA
				Total Est. Demand:	5540 VA
				Total Conn. Current:	29 A
				Total Est. Demand Current:	15 A

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

Branch Panel: A301A

Location: TR (EXPANDED) A301
Supply From: (E) 3CL1-1
Mounting: SURFACE
Enclosure: Type 1
Volts: 120/208 Wye
Phases: 3
Wires: 4
A.I.C. Rating: 10000
Mains Type: MCB
Mains Rating: 100 A
MCB Rating: 100 A

CKT	Circuit Description	Trip	Poles	Notes	A		B		C		Notes	Poles	Trip	Circuit Description	CKT
1	L21-30R LEG B, TR A301	30 A	3		3333	720						1	20 A	REC, TR (EXPANDED) A301	2
3	--	--	--	--			3333	0				1	20 A	SPARE	4
5	--	--	--	--					3333	0		1	20 A	SPARE	6
7	SPARE	30 A	3		0	0						1	20 A	SPARE	8
9	--	--	--	--			0	0				1	20 A	SPARE	10
11	--	--	--						0	0		1	20 A	SPARE	12
13	SPARE	20 A	1		0	0						1	20 A	SPARE	14
15	SPARE	20 A	1				0	0				1	20 A	SPARE	16
17	SPARE	20 A	1						0	0		1	20 A	SPARE	18
19	SPARE	20 A	1		0	0						1	20 A	SPARE	20
21	SPARE	20 A	1				0	0				1	20 A	SPARE	22
23	SPARE	20 A	1						0	0		1	20 A	SPARE	24
25	SPD	30 A	3	1	0	0						1	20 A	SPARE	26
27	--	--	--	--			0	0				1	20 A	SPARE	28
29	--	--	--	--					0	0		1	20 A	SPARE	30
				Total Conn. Load:	4053 VA		3333 VA		3333 VA						
				Total Amps:	34 A		28 A		28 A						

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
REC,	720 VA	100.00%	720 VA		
Telecommunications Equipment	10000 VA	50.00%	5000 VA	**Total Conn. Load:**	10720 VA
				Total Est. Demand:	5720 VA
				Total Conn. Current:	30 A
				Total Est. Demand Current:	16 A

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

Branch Panel: A301B

Location: TR (EXPANDED) A301
Supply From: (E) 3CL1-2
Mounting: SURFACE
Enclosure: Type 1
Volts: 120/208 Wye
Phases: 3
Wires: 4
A.I.C. Rating: 10000
Mains Type: MCB
Mains Rating: 100 A
MCB Rating: 100 A

CKT	Circuit Description	Trip	Poles	Notes	A		B		C		Notes	Poles	Trip	Circuit Description	CKT
1	L21-30R LEG B, TR A301	30 A	3		3333	0						1	20 A	SPARE	2
3	--	--	--	--			3333	360				1	20 A	REC, TR (EXPANDED) A301	4
5	--	--	--	--					3333	0		1	20 A	SPARE	6
7	SPARE	30 A	3		0	0						1	20 A	SPARE	8
9	--	--	--	--			0	0				1	20 A	SPARE	10
11	--	--	--						0	0		1	20 A	SPARE	12
13	SPARE	20 A	1		0	0						1	20 A	SPARE	14
15	SPARE	20 A	1				0	0				1	20 A	SPARE	16
17	SPARE	20 A	1						0	0		1	20 A	SPARE	18
19	SPARE	20 A	1		0	0						1	20 A	SPARE	20
21	SPARE	20 A	1				0	0				1	20 A	SPARE	22
23	SPARE	20 A	1						0	0		1	20 A	SPARE	24
25	SPD	30 A	3	1	0	0						1	20 A	SPARE	26
27	--	--	--	--			0	0				1	20 A	SPARE	28
29	--	--	--	--					0	0		1	20 A	SPARE	30
				Total Conn. Load:	3333 VA		3693 VA		3333 VA						
				Total Amps:	28 A		31 A		28 A						

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
REC,	360 VA	100.00%	360 VA		
Telecommunications Equipment	10000 VA	50.00%	5000 VA	**Total Conn. Load:**	10360 VA
				Total Est. Demand:	5360 VA
				Total Conn. Current:	29 A
				Total Est. Demand Current:	15 A

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

Branch Panel: 2B212B

Location:
Supply From: (E) 2CLB1-B
Mounting: SURFACE
Enclosure: Type 1
Volts: 120/208 Wye
Phases: 3
Wires: 4
A.I.C. Rating: 10000
Mains Type: MCB
Mains Rating: 100 A
MCB Rating: 100 A

CKT	Circuit Description	Trip	Poles	Notes	A		B		C		Notes	Poles	Trip	Circuit Description	CKT
1	L21-30R LEG B, TR 2B212	30 A	3		3333	0						1	20 A	SPARE	2
3	--	--	--	--			3333	540				1	20 A	REC, TR 2B212	4
5	--	--	--	--					3333	0		1	20 A	SPARE	6
7	SPARE	30 A	3		0	0						1	20 A	SPARE	8
9	--	--	--	--			0	0				1	20 A	SPARE	10
11	--	--	--	--					0	0		1	20 A	SPARE	12
13	SPARE	20 A	1		0	0						1	20 A	SPARE	14
15	SPARE	20 A	1				0	0				1	20 A	SPARE	16
17	SPARE	20 A	1						0	0		1	20 A	SPARE	18
19	SPARE	20 A	1		0	0						1	20 A	SPARE	20
21	SPARE	20 A	1				0	0				1	20 A	SPARE	22
23	SPARE	20 A	1						0	0		1	20 A	SPARE	24
25	SPD	30 A	3	1	0	0						1	20 A	SPARE	26
27	--	--	--	--			0	0				1	20 A	SPARE	28
29	--	--	--	--					0	0		1	20 A	SPARE	30
				Total Conn. Load:	3333 VA		3873 VA		3333 VA						
				Total Amps:	28 A		32 A		28 A						

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
REC,	540 VA	100.00%	540 VA		
Telecommunications Equipment	10000 VA	50.00%	5000 VA	**Total Conn. Load:**	10540 VA
				Total Est. Demand:	5540 VA
				Total Conn. Current:	29 A
				Total Est. Demand Current:	15 A

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

GENERAL NOTES:

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

PANEL SCHEDULE KEY PLAN

(E) 2CLB1-B	(E) 3CL1-1	(E) 3CL1-2
2B212A	A301A	A301B
2B212B	-	

Revisions:	Date:

ARCHITECT/ENGINEER OF RECORD

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12/18/2025

Facilities Management Services

VA U.S. Department of Veterans Affairs

Drawing Title: PANEL SCHEDULES
Approved:
FOR OFFICIAL USE ONLY

Phase: FINAL BID DOCUMENTS

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

Project Number: 637-22-700
Building Number: BLDG 47
Drawing Number: 47-EP610
SHEET 404 of 559

Autodesk Docs://Asheville EHRM_V23/637-22-700.047 E-ASH - EHRM.rvt
12/18/2025 5:25:35 PM

Branch Panel: (E) 4CL1-1

Location: ELECT FMS A465A
Supply From:
Mounting: SURFACE
Enclosure: Type 1
Volts: 120/208 Wye
Phases: 3
Wires: 4
A.I.C. Rating: 22000
Mains Type: MCB
Mains Rating: 150 A
MCB Rating: 150 A

CKT	Circuit Description	Trip	Poles	Notes	A		B		C		Notes	Poles	Trip	Circuit Description	CKT
1	(E) REC, B406, B41	20 A	1		0	4053					1	3	100 A	PANEL A401A	2
3	(E) REC, NURSES STATION	20 A	1				0	3333			--	--	--	--	4
5	(E) REC, A469B	20 A	1						0	3333	--	--	--	--	6
7	(E) SPARE	20 A	1		0	0						1	20 A	(E) SPARE	8
9	(E) SPARE	20 A	1				0	0				1	20 A	(E) SPARE	10
11	(E) SPARE	20 A	1						0	0		1	20 A	(E) SPARE	12
13	(E) SPARE	20 A	1		0	0						1	20 A	(E) SPARE	14
15	(E) SPARE	20 A	1				0	0				1	20 A	(E) SPARE	16
17	(E) SPARE	20 A	1						0	0		1	20 A	(E) SPARE	18
19	(E) SPARE	20 A	1		0	0						1	20 A	(E) SPARE	20
21	(E) SPARE	20 A	1				0	0				1	20 A	(E) SPARE	22
23	(E) SPARE	20 A	1						0	0		1	20 A	(E) SPARE	24
25	(E) SPARE	20 A	1		0	0						1	20 A	(E) SPARE	26
27	(E) SPARE	20 A	1				0	0				1	20 A	(E) SPARE	28
29	(E) SPARE	20 A	1						0	0		1	20 A	(E) SPARE	30
31	(E) SPARE	20 A	1		0	0						1	20 A	(E) SPARE	32
33	(E) SPARE	20 A	1				0	0				1	20 A	(E) SPARE	34
35	(E) SPARE	20 A	1						0	0		1	20 A	(E) SPARE	36
37	(E) SPARE	20 A	1		0	0						1	20 A	(E) SPARE	38
39	(E) SPARE	20 A	1				0	0				1	20 A	(E) SPARE	40
41	(E) SPARE	20 A	1						0	0		1	20 A	(E) SPARE	42
			Total Conn. Load:		4053 VA		3333 VA		3333 VA						
			Total Amps:		34 A		28 A		28 A						

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
REC,	720 VA	100.00%	720 VA		
Telecommunications Equipment	10000 VA	50.00%	5000 VA	**Total Conn. Load:**	10720 VA
				Total Est. Demand:	5720 VA
				Total Conn. Current:	30 A
				Total Est. Demand Current:	16 A

Notes:
1. REMOVE THREE (3) EXISTING 20A, 1P SPARE BREAKERS AND INSTALL NEW 100A, 3P BREAKER. CONTRACTOR SHALL VERIFY SPARE BREAKERS ARE NOT IN USE PRIOR TO REMOVAL. NEW BREAKER SHALL MATCH EXISTING PANEL MANUFACTURER AND AIC RATING AND SHALL MAINTAIN EXISTING UL RATING.

Branch Panel: (E) 4CL1-2

Location: ELECT FMS A465A
Supply From:
Mounting: SURFACE
Enclosure: Type 1
Volts: 120/208 Wye
Phases: 3
Wires: 4
A.I.C. Rating: 22000
Mains Type: MCB
Mains Rating: 150 A
MCB Rating: 150 A

CKT	Circuit Description	Trip	Poles	Notes	A		B		C		Notes	Poles	Trip	Circuit Description	CKT
1	PANEL A401B	100 A	3	1	3333	0						1	20 A	SPARE	2
3	--	--	--	--			3873	0				1	20 A	SPARE	4
5	--	--	--	--					3333	0		1	20 A	SPARE	6
7	SPARE	20 A	1		0	0						1	20 A	SPARE	8
9	SPARE	20 A	1				0	0				1	20 A	SPARE	10
11	SPARE	20 A	1						0	0		1	20 A	SPARE	12
13	SPARE	20 A	1		0	0						1	20 A	SPARE	14
15	SPARE	20 A	1				0	0				1	20 A	SPARE	16
17	SPARE	20 A	1						0	0		1	20 A	SPARE	18
19	SPARE	20 A	1		0	0						1	20 A	SPARE	20
21	SPARE	20 A	1				0	0				1	20 A	SPARE	22
23	SPARE	20 A	1						0	0		1	20 A	SPARE	24
25	SPARE	20 A	1		0	0						1	20 A	SPARE	26
27	SPARE	20 A	1				0	0				1	20 A	SPARE	28
29	SPARE	20 A	1						0	0		1	20 A	SPARE	30
31	SPARE	20 A	1		0	0						1	20 A	SPARE	32
33	SPARE	20 A	1				0	0				1	20 A	SPARE	34
35	SPARE	20 A	1						0	0		1	20 A	SPARE	36
37	SPARE	20 A	1		0	0						1	20 A	SPARE	38
39	SPARE	20 A	1				0	0				1	20 A	SPARE	40
41	SPARE	20 A	1						0	0		1	20 A	SPARE	42
			Total Conn. Load:		3333 VA		3873 VA		3333 VA						
			Total Amps:		28 A		32 A		28 A						

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
REC,	540 VA	100.00%	540 VA		
Telecommunications Equipment	10000 VA	50.00%	5000 VA	**Total Conn. Load:**	10540 VA
				Total Est. Demand:	5540 VA
				Total Conn. Current:	29 A
				Total Est. Demand Current:	15 A

Notes:
1. REMOVE THREE (3) EXISTING 20A, 1P SPARE BREAKERS AND INSTALL NEW 100A, 3P BREAKER. CONTRACTOR SHALL VERIFY SPARE BREAKERS ARE NOT IN USE PRIOR TO REMOVAL. NEW BREAKER SHALL MATCH EXISTING PANEL MANUFACTURER AND AIC RATING AND SHALL MAINTAIN EXISTING UL RATING.

Branch Panel: (E) 5CL1-1

Location: ELECT. 5E519
Supply From:
Mounting: Surface
Enclosure: Type 1
Volts: 120/208 Wye
Phases: 3
Wires: 4
A.I.C. Rating: 22000
Mains Type: MCB
Mains Rating: 150 A
MCB Rating: 150 A

CKT	Circuit Description	Trip	Poles	Notes	A		B		C		Notes	Poles	Trip	Circuit Description	CKT
1	(E) ELEVATOR CONTROLLER	20 A	1		0	0						1	20 A	(E) 5 SOUTH DOOR ALARM	2
3	(E) RCU-15	20 A	1				0	0				1	20 A	(E) REC, REFRIGRATOR	4
5	(E) RANGE UNIT C-22	20 A	1						0	0		1	20 A	SPARE	6
7	(E) 5 SOUTH NURSE STATION	20 A	1		0	0						1	20 A	(E) 5 EAST CAMERA	8
9	(E) 5 SOUTH CAMERAS	20 A	1				0	0				1	20 A	(E) 5 EAST GLASS DOORS	10
11	(E) 5 SOUTH NURSE STA	20 A	1						0	0		1	20 A	(E) 5TH FLOOR CARD ACCESS	12
13	(E) REC, MED TLT/FAUCETS	20 A	1		0	0						1	20 A	(E) REC, 5	14
15	SPARE	20 A	1				0	0				1	20 A	(E) REC, INTERVIEW RM	16
17	(E) REC, NURSES STATION	20 A	1						0	0		1	20 A	(E) REC, NURSE STATION	18
19	(E) REC, PAT RMS 5W501-502	20 A	1		0	0						1	20 A	(E) LTG, ACTIVITIES RAOD LIVING	20
21	(E) REC, PAT RMS 5W503-504	20 A	1				0	0				1	20 A	(E) LTG, NURSE MEDS INT ELEC	22
23	(E) REC, PAT RMS 5W505-506	20 A	1						0	0		1	20 A	(E) LTG, PAT RMS 5W501, 5W503	24
25	(E) REC, PAT 5W51, STAFF TLT	20 A	1		0	0						1	20 A	(E) LTG, PAT RMS 5W504, 5W506	26
27	(E) REC, PAT RMS 5W513-514	20 A	1				0	0				1	20 A	(E) LTG, PAT RMS 5W511, 513, 514	28
29	(E) REC, PAT RMS 5W515-516	20 A	1						0	0		1	20 A	(E) LTG, PAT RMS 5W515, 518	30
31	(E) REC, PAT RMS 5W517-518	20 A	1		0	4053					1	3	100 A	A501A	32
33	(E) REC, CORRIDOR	20 A	1				0	3333			--	--	--	--	34
35	(E) REC, ELECTRICAL ROOM	20 A	1						0	3333	--	--	--	--	36
37	(E) NURSE CALL EQUIP CAB	20 A	1		0	3333					1	3	100 A	A501B	38
39	(E) TOP DOOR ALARM	20 A	1				0	3873			--	--	--	--	40
41	SPARE	20 A	1						0	3333	--	--	--	--	42
			Total Conn. Load:		7387 VA		7207 VA		6667 VA						
			Total Amps:		62 A		61 A		56 A						

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
REC,	1260 VA	100.00%	1260 VA		
Telecommunications Equipment	20000 VA	50.00%	10000 VA	**Total Conn. Load:**	21260 VA
				Total Est. Demand:	11260 VA
				Total Conn. Current:	59 A
				Total Est. Demand Current:	31 A

Notes:
1. REMOVE THREE (3) EXISTING 20A, 1P SPARE BREAKERS AND INSTALL NEW 100A, 3P BREAKER. CONTRACTOR SHALL VERIFY SPARE BREAKERS ARE NOT IN USE PRIOR TO REMOVAL. NEW BREAKER SHALL MATCH EXISTING PANEL MANUFACTURER AND AIC RATING AND SHALL MAINTAIN EXISTING UL RATING.

Branch Panel: A401A

Location: TR (EXPANDED) A401
Supply From: (E) 4CL1-1
Mounting: SURFACE
Enclosure: Type 1
Volts: 120/208 Wye
Phases: 3
Wires: 4
A.I.C. Rating: 10000
Mains Type: MCB
Mains Rating: 100 A
MCB Rating: 100 A

CKT	Circuit Description	Trip	Poles	Notes	A		B		C		Notes	Poles	Trip	Circuit Description	CKT
1	L21-30R LEG A, TR A401	30 A	3		3333	720						1	20 A	REC, TR (EXPANDED) A401	2
3	--	--	--	--			3333	0				1	20 A	SPARE	4
5	--	--	--	--					3333	0		1	20 A	SPARE	6
7	SPARE	30 A	3		0	0						1	20 A	SPARE	8
9	--	--	--	--			0	0				1	20 A	SPARE	10
11	--	--	--	--					0	0		1	20 A	SPARE	12
13	SPARE	20 A	1		0	0						1	20 A	SPARE	14
15	SPARE	20 A	1				0	0				1	20 A	SPARE	16
17	SPARE	20 A	1						0	0		1	20 A	SPARE	18
19	SPARE	20 A	1		0	0						1	20 A	SPARE	20
21	SPARE	20 A	1				0	0				1	20 A	SPARE	22
23	SPARE	20 A	1						0	0		1	20 A	SPARE	24
25	SPD	30 A	3	1	0	0						1	20 A	SPARE	26
27	--	--	--	--			0	0				1	20 A	SPARE	28
29	--	--	--	--					0	0		1	20 A	SPARE	30
			Total Conn. Load:		4053 VA		3333 VA		3333 VA						
			Total Amps:		34 A		28 A		28 A						

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
REC,	720 VA	100.00%	720 VA		
Telecommunications Equipment	10000 VA	50.00%	5000 VA	**Total Conn. Load:**	10720 VA
				Total Est. Demand:	5720 VA
				Total Conn. Current:	30 A
				Total Est. Demand Current:	16 A

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

Branch Panel: A401B

Location: TR (EXPANDED) A401
Supply From: (E) 4CL1-2
Mounting: SURFACE
Enclosure: Type 1
Volts: 120/208 Wye
Phases: 3
Wires: 4
A.I.C. Rating: 10000
Mains Type: MCB
Mains Rating: 100 A
MCB Rating: 100 A

CKT	Circuit Description	Trip	Poles	Notes	A		B		C		Notes	Poles	Trip	Circuit Description	CKT
1	L21-30R LEG B, TR A401	30 A	3		3333	0						1	20 A	SPARE	2
3	--	--	--	--			3333	540				1	20 A	REC, TR (EXPANDED) A401	4
5	--	--	--	--					3333	0		1	20 A	SPARE	6
7	SPARE	30 A	3		0	0						1	20 A	SPARE	8
9	--	--	--	--			0	0				1	20 A	SPARE	10
11	--	--	--	--					0	0		1	20 A	SPARE	12
13	SPARE	20 A	1		0	0						1	20 A	SPARE	14
15	SPARE	20 A	1				0	0				1	20 A	SPARE	16
17	SPARE	20 A	1						0	0		1	20 A	SPARE	18
19	SPARE	20 A	1		0	0						1	20 A	SPARE	20
21	SPARE	20 A	1				0	0				1	20 A	SPARE	22
23	SPARE	20 A	1						0	0		1	20 A	SPARE	24
25	SPD	30 A	3	1	0	0						1	20 A	SPARE	26
27	--	--	--	--			0	0				1	20 A	SPARE	28
29	--	--	--	--					0	0		1	20 A	SPARE	30
			Total Conn. Load:		3333 VA		3873 VA		3333 VA						
			Total Amps:		28 A		32 A		28 A						

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
REC,	540 VA	100.00%	540 VA		
Telecommunications Equipment	10000 VA	50.00%	5000 VA	**Total Conn. Load:**	10540 VA
				Total Est. Demand:	5540 VA
				Total Conn. Current:	29 A
				Total Est. Demand Current:	15 A

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

Branch Panel: A501A

Location: TR (EXPANDED) A501
Supply From: (E) 5CL1-1
Mounting: SURFACE
Enclosure: Type 1
Volts: 120/208 Wye
Phases: 3
Wires: 4
A.I.C. Rating: 10000
Mains Type: MCB
Mains Rating: 100 A
MCB Rating: 100 A

CKT	Circuit Description	Trip	Poles	Notes	A		B		C		Notes	Poles	Trip	Circuit Description	CKT
1	L21-30R LEG A, TR A501	30 A	3		3333	720						1	20 A	REC, TR (EXPANDED) A501	2
3	--	--	--	--			3333	0				1	20 A	SPARE	4
5	--	--	--	--					3333	0		1	20 A	SPARE	6
7	SPARE	30 A	3		0	0						1	20 A	SPARE	8
9	--	--	--	--			0	0				1	20 A	SPARE	10
11	--	--	--	--					0	0		1	20 A	SPARE	12
13	SPARE	20 A	1		0	0						1	20 A	SPARE	14
15	SPARE	20 A	1				0	0				1	20 A	SPARE	16
17	SPARE	20 A	1						0	0		1	20 A	SPARE	18
19	SPARE	20 A	1		0	0						1	20 A	SPARE	20
21	SPARE	20 A	1				0	0				1	20 A	SPARE	22
23	SPARE	20 A	1						0	0		1	20 A	SPARE	24
25	SPD	30 A	3	1	0	0						1	20 A	SPARE	26
27	--	--	--	--			0	0				1	20 A	SPARE	28
29	--	--	--	--					0	0		1	20 A	SPARE	30
			Total Conn. Load:		4053 VA		3333 VA		3333 VA						
			Total Amps:		34 A		28 A		28 A						

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
REC,	720 VA	100.00%	720 VA		
Telecommunications Equipment	10000 VA	50.00%	5000 VA	**Total Conn. Load:**	10720 VA
				Total Est. Demand:	5720 VA
				Total Conn. Current:	30 A
				Total Est. Demand Current:	16 A

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

Branch Panel: A501B

Location: TR (EXPANDED) A501
Supply From: (E) 5CL1-1
Mounting: SURFACE
Enclosure: Type 1
Volts: 120/208 Wye
Phases: 3
Wires: 4
A.I.C. Rating: 10000
Mains Type: MCB
Mains Rating: 100 A
MCB Rating: 100 A

CKT	Circuit Description	Trip	Poles	Notes	A		B		C		Notes	Poles	Trip	Circuit Description	CKT
1	L21-30R LEG B, TR A501	30 A	3		3333	0						1	20 A	SPARE	2
3	--	--	--	--			3333	540				1	20 A	REC, TR (EXPANDED) A501	4
5	--	--	--	--					3333	0		1	20 A	SPARE	6
7	SPARE	30 A	3		0	0						1	20 A	SPARE	8
9	--	--	--	--			0	0				1	20 A	SPARE	10
11	--	--	--	--					0	0		1	20 A	SPARE	12
13	SPARE	20 A	1		0	0						1	20 A	SPARE	14
15	SPARE	20 A	1				0	0				1	20 A	SPARE	16
17	SPARE	20 A	1						0	0		1	20 A	SPARE	18
19	SPARE	20 A	1		0	0						1	20 A	SPARE	20
21	SPARE	20 A	1				0	0				1	20 A	SPARE	22
23	SPARE	20 A	1						0	0		1	20 A	SPARE	24
25	SPD	30 A	3	1	0	0						1	20 A	SPARE	26
27	--	--	--	--			0	0				1	20 A	SPARE	28
29	--	--	--	--					0	0		1	20 A	SPARE	30
			Total Conn. Load:		3333 VA		3873 VA		3333 VA						
			Total Amps:		28 A		32 A		28 A						

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
REC,	540 VA	100.00%	540 VA		
Telecommunications Equipment	10000 VA	50.00%	5000 VA	**Total Conn. Load:**	10540 VA
				Total Est. Demand:	5540 VA
				Total Conn. Current:	29 A
				Total Est. Demand Current:	15 A

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

GENERAL NOTES:

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

PANEL SCHEDULE KEY PLAN

(E) 4CL1-1	(E) 4CL1-2	(E) 5CL1-1
A401A	A401B	-
A501A	A501B	

Revisions:	Date:

ARCHITECT/ENGINEER OF RECORD

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12/18/2025

Facilities Management Services

VA U.S. Department of Veterans Affairs

Drawing Title: PANEL SCHEDULES
Approved:
FOR OFFICIAL USE ONLY

Phase: FINAL BID DOCUMENTS

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

Project Number: 637-22-700
Building Number: BLDG 47
Drawing Number: 47-EP611

VA FORM 08 - 6231
12/18/2025 5:25:37 PM
Autodesk Docs://Asheville EHRM, V23/637-22-700.047 E-ASH - EHRM.rvt

Branch Panel: (E) BEH-1

Location: CORRIDOR - **Volts:** 480/277 Wye **A.I.C. Rating:** 35000
Supply From: **Phases:** 3 **Mains Type:** MCB
Mounting: SURFACE **Wires:** 4 **Mains Rating:** 600 A
Enclosure: Type 1 **MCB Rating:** 600 A

CKT	Circuit Description	Trip	Poles	Notes	A		B		C		Notes	Poles	Trip	Circuit Description	CKT
1	(E) ACCU-1-2013	15 A	3		0	0						3	90 A	(E) CRAC-1 SHUNT TRIP	2
3	--	--	--	--			0	0			--	--	--	--	4
5	--	--	--	--					0	0	--	--	--	--	6
7	(E) ACCU-2-2013	15 A	3		0	--						1	--	SPACE	8
9	--	--	--	--			0	0				3	90 A	(E) CRAC-2 SHUNT TRIP	10
11	--	--	--	--					0	0	--	--	--	--	12
13	SPACE	--	1		--	0					--	--	--	--	14
15	47-CU-1A	15 A	3	1, 4			776	--				1	--	SPACE	16
17	--	--	--	--					776	0		3	90 A	SPARE	18
19	--	--	--	--	776	0					--	--	--	--	20
21	47-CU-2A	15 A	3	2			1552	0			--	--	--	--	22
23	--	--	--	--					1552	0		3	100 A	SPARE	24
25	--	--	--	--	1552	0					--	--	--	--	26
27	SPARE	20 A	1				0	0			--	--	--	--	28
29	LTG DATA CENTER (NEW) BC131	20 A	1	2					2000	0		1	20 A	SPARE	30
31	47-CRAC-1A	50 A	3	3, 4	9007	--						1	--	SPACE	32
33	--	--	--	--			9007	--				1	--	SPACE	34
35	--	--	--	--					9007	--		1	--	SPACE	36
37	47-CRAC-2A	110 A	3	3, 4	23196	--						1	--	SPACE	38
39	--	--	--	--			23196	--				1	--	SPACE	40
41	--	--	--	--					23196	--		1	--	SPACE	42
43	SPACE	--	3		--	0						3	250 A	SPARE	44
45	--	--	--	--			--	0			--	--	--	--	46
47	--	--	--	--					--	0	--	--	--	--	48
49	SPACE	--	3		--	0						3	250 A	SPARE	50
51	--	--	--	--			--	0			--	--	--	--	52
53	--	--	--	--					--	0	--	--	--	--	54
				Total Conn. Load:	34530 VA		34530 VA		36530 VA						
				Total Amps:	125 A		125 A		132 A						

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
HVAC	6984 VA	100.00%	6984 VA		
Lighting	2000 VA	125.00%	2499 VA	**Total Conn. Load:**	105591 VA
Motor	96607 VA	118.01%	114004 VA	**Total Est. Demand:**	123487 VA
				Total Conn. Current:	127 A
				Total Est. Demand Current:	149 A

Notes:
1. REMOVE EXISTING SPARE BREAKER.
2. REUSE EXISTING SPARE BREAKER.
3. NEW BREAKER SHALL BE SHUNT TRIP TYPE. REFER TO 00-E503 FOR EPO WIRING DIAGRAM.
4. NEW BREAKER SHALL MATCH EXISTING PANEL MANUFACTURER AND AIC RATING, AND SHALL MAINTAIN PANEL UL RATING.

Branch Panel: (E) BEQL

Location: BOILER ROOM BF152 **Volts:** 120/208 Wye **A.I.C. Rating:** 35000
Supply From: **Phases:** 3 **Mains Type:** MCB
Mounting: Surface **Wires:** 4 **Mains Rating:** 225 A
Enclosure: NEMA 3R **MCB Rating:** 200 A

CKT	Circuit Description	Trip	Poles	Notes	A		B		C		Notes	Poles	Trip	Circuit Description	CKT
1	SPARE	30 A	2		0	0						2	30 A	SPARE	2
3	--	--	--	--			0	0			--	--	--	--	4
5	47-ODU-1D144	65 A	2	1					2704	0		1	20 A	SPARE	6
7	--	--	--	--	2704	0						1	20 A	SPARE	8
9	47-ODU-1H113	65 A	2	1			2704	0				1	20 A	SPARE	10
11	--	--	--	--					2704	0		1	20 A	SPARE	12
13	47-ODU-BF107	65 A	2	1	2704	0						1	20 A	SPARE	14
15	--	--	--	--			2704	0				1	20 A	SPARE	16
17	47-ODU-BC143A	50 A	2	1					1976	0		1	20 A	SPARE	18
19	--	--	--	--	1976	0						1	20 A	SPARE	20
21	47-ODU-BC143B	50 A	2	1	--	--	1976	0				1	20 A	SPARE	22
23	--	--	--	--					1976	0		1	20 A	SPARE	24
25	47-ODU-BC143C	35 A	2	1	2652	0						1	20 A	SPARE	26
27	--	--	--	--			2652	0				1	20 A	SPARE	28
29	47-ODU-BC131A	50 A	2	1					1976	0		1	20 A	SPARE	30
31	--	--	--	--	1976	0						1	20 A	SPARE	32
33	47-ODU-BC131B	50 A	2	1			1976	0				1	20 A	SPARE	34
35	--	--	--	--					1976	0		1	20 A	SPARE	36
37	47-IDU-BC143C	15 A	2	1	167	0						1	20 A	SPARE	38
39	--	--	--	--			167	0				1	20 A	SPARE	40
41	47-IF-1	15 A	1	1					156	0		1	20 A	SPARE	42
				Total Conn. Load:	12179 VA		12179 VA		13468 VA						
				Total Amps:	101 A		101 A		112 A						

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
HVAC	37336 VA	100.00%	37336 VA		
Motor	489 VA	117.02%	572 VA	**Total Conn. Load:**	37825 VA
				Total Est. Demand:	37906 VA
				Total Conn. Current:	105 A
				Total Est. Demand Current:	105 A

Notes:
1. REMOVE EXISTING 20A, 1P BREAKERS AND INSTALL NEW BREAKER, WHICH SHALL MATCH EXISTING PANEL MANUFACTURER AND AIC RATING, AND SHALL MAINTAIN PANEL UL RATING.

Branch Panel: (E) BEQH-1

Location: ELEC BC140 **Volts:** 480/277 Wye **A.I.C. Rating:** 10000
Supply From: **Phases:** 3 **Mains Type:** MLO
Mounting: SURFACE **Wires:** 4 **Mains Rating:** 225 A
Enclosure: Type 1

CKT	Circuit Description	Trip	Poles	Notes	A		B		C		Notes	Poles	Trip	Circuit Description	CKT
1	(E) A/C TELEPHONE RM	70 A	3		0	0						1	20 A	SPARE	2
3	--	--	--	--			0	0				1	20 A	SPARE	4
5	--	--	--	--					0	0		1	20 A	SPARE	6
7	(E) APC2 A/C TELEPHONE RM	70 A	3		0	0						1	20 A	SPARE	8
9	--	--	--	--			0	0				1	20 A	SPARE	10
11	--	--	--	--					0	0		1	20 A	SPARE	12
13	(E) OUTSIDE CONDENSER UNIT...	20 A	3		0	776						1	3	15 A	47-CU-1B	14
15	--	--	--	--			0	776				--	--	--	--	16
17	--	--	--	--					0	776	--	--	--	--	--	18
19	(E) SPD COMPRESSOR IN CRAWL...	20 A	3		0	1552						1	3	15 A	47-CU-2B	20
21	--	--	--	--			0	1552				--	--	--	--	22
23	--	--	--	--					0	1552	--	--	--	--	--	24
25	SPARE	30 A	3		0	9007						1, 2	3	50 A	47-CRAC-1B	26
27	--	--	--	--			0	9007				--	--	--	--	28
29	--	--	--	--					0	9007	--	--	--	--	--	30
31	SPARE	20 A	1		0	23196						1, 2	3	110 A	47-CRAC-2B	32
33	SPARE	20 A	1				0	23196				--	--	--	--	34
35	SPARE	20 A	1						0	23196	--	--	--	--	--	36
37	SPARE	20 A	1		0	--						1	--	SPACE	38
39	SPARE	20 A	1				0	--				1	--	SPACE	40
41	SPARE	20 A	1						0	--		1	--	SPACE	42
				Total Conn. Load:	34530 VA		34530 VA		34530 VA						
				Total Amps:	125 A		125 A		125 A						

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
HVAC	6984 VA	100.00%	6984 VA		
Motor	96607 VA	118.01%	114004 VA	**Total Conn. Load:**	103591 VA
				Total Est. Demand:	120988 VA
				Total Conn. Current:	125 A
				Total Est. Demand Current:	146 A

Notes:
1. USE EXISTING BLANK PANEL SPACE. NEW BREAKER SHALL MATCH EXISTING PANEL MANUFACTURER AND AIC RATING, AND SHALL MAINTAIN PANEL UL RATING.
2. NEW BREAKER SHALL BE SHUNT TRIP TYPE. REFER TO 00-E503 FOR EPO WIRING DIAGRAM.

Branch Panel: (E) 2ELB

Location: Space 425 **Volts:** 120/208 Wye **A.I.C. Rating:** 10000
Supply From: **Phases:** 3 **Mains Type:** MCB
Mounting: Surface **Wires:** 4 **Mains Rating:** 125 A
Enclosure: Type 1 **MCB Rating:** 100 A

CKT	Circuit Description	Trip	Poles	Notes	A		B		C		Notes	Poles	Trip	Circuit Description	CKT
1	(E) EXHAUST FAN-14	20 A	1		0	0						1	20 A	(E) EXHAUST FAN-1	2
3	(E) EXHAUST FAN-15. REC PACU	20 A	1				0	0				1	20 A	(E) CP-DLE	4
5	(E) EXHAUST FAN-6	20 A	1						0	0		1	20 A	(E) EXHAUST FAN-37	6
7	(E) EXHAUST FAN-7	20 A	1		0	0						1	20 A	(E) REC 2B229	8
9	(E) AUTOMATIC DOOR OPERATOR...	20 A	1				0	0				1	20 A	(E) EXHAUST FAN-11	10
11	(E) AUTOMATIC DOOR OPERATOR...	20 A	1						0	0		1	20 A	(E) EXHAUST FAN-34	12
13	(E) AUTOMATIC DOOR OPERATOR...	20 A	1		0	0						1	20 A	(E) EXHAUST FAN-29	14
15	(E) AUTOMATIC DOOR OPERATOR...	20 A	1				0	0				1	20 A	(E) EXHAUST FAN-28	16
17	(E) AUTOMATIC DOOR OPERATOR...	20 A	1						0	0		1	20 A	(E) NITROGEN MANIFOLD OR	18
19	(E) ROOF REC	20 A	1		0	0						1	20 A	(E) AUTOMATIC DOOR OPERATOR...	20
21	(E) AUTOMATIC DOOR OPERATOR	20 A	1				0	0				1	20 A	(E) AUTOMATIC DOOR OPERATOR...	22
23	(E) HVAC CONTROLS AH-9	20 A	1						0	0		1	20 A	(E) LIGHTS CATH LAB	24
25	(E) HVAC CONTROLS AH-11	20 A	1		0	0						1	20 A	(E) EXHAUST FAN-40	26
27	(E) LIGHTS AHU #11	20 A	1				0	0				1	20 A	(E) X-RAY LIGHT, MAG LOCKS DENTAL	28
29	SPARE	20 A	1						0	0		1	20 A	(E) MAG LOCKS DENTAL	30
31	47-ODU-BB018	65 A	2	1	2704	0						1	20 A	(E) REC 2B384	32
33	--	--	--	--			2704	0				1	20 A	(E) AUTOMATIC FOOR OPERATOR...	34
35	47-ODU-1B134	65 A	2	1					2704	0		1	20 A	SPARE	36
37	--	--	--	--	2704	0						1	20 A	SPARE	38
39	47-ODU-2B212	65 A	2	1			2704	0				1	20 A	SPARE	40
41	--	--	--	--					2704	0		1	20 A	SPARE	42
				Total Conn. Load:	5408 VA		5408 VA		5408 VA						
				Total Amps:	45 A		45 A		45 A						

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
HVAC	16224 VA	100.00%	16224 VA		
				Total Conn. Load:	16224 VA
				Total Est. Demand:	16224 VA
				Total Conn. Current:	45 A
				Total Est. Demand Current:	45 A

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

Branch Panel: (E) 2EQL1

Location: Space 425 **Volts:** 120/208 Wye **A.I.C. Rating:** 22000
Supply From: **Phases:** 3 **Mains Type:** MCB
Mounting: Surface **Wires:** 4 **Mains Rating:** 100 A
Enclosure: Type 1 **MCB Rating:** 100 A

CKT	Circuit Description	Trip	Poles	Notes	A		B		C		Notes	Poles	Trip	Circuit Description	CKT
1	(E) SCRUB ROOM	20 A	1		0	0						2	30 A	(E) LASER OUTLET O/R 4	2
3	(E) GFCI REC STERILE BATH	20 A	1				0	0			--	--	--	--	4
5	(E) GFCI REC	30 A	2						0	0		1	20 A	(E) ICE MACHINE	6
7	--	--	--	--	0	0						3	40 A	(E) EXISTING LOAD	8
9	SPARE	20 A	1				0	0			--	--	--	--	10
11	SPARE	20 A	1						0	0	--	--	--	--	12
13	SPARE	20 A	1		0	0						1	20 A	(E) BMS PANEL 2090	14
15	SPARE	20 A	1				0	0				1	20 A	(E) BMS PANEL 2090	16
17	SPARE	20 A	1						0	0		1	15 A	(E) COMPUTERS CONTROL PANEL	18
19	SPARE	20 A	1		0	0						1	20 A	SPARE	20
21	SPARE	20 A	1				0	0				1	20 A	SPARE	22
23	SPARE	20 A	1						0	--		1	--	SPACE	24
25	SPARE	20 A	1		0	0						1	20 A	SPARE	26
27	SPARE	20 A	1				0	1976			1	2	50 A	47-ODU-BC118A	28
29	SPARE	20 A	1						0	1976	--	--	--	--	30
31	SPARE	20 A	1		0	1976					1	2	50 A	47-ODU-BC118B	32
33	SPARE	20 A	1				0	1976			--	--	--	--	34
35	SPARE	20 A	1						0	2704	1	2	65 A	47-ODU-1W133	36
37	SPARE	20 A	1		0	2704					--	--	--	--	38
39	SPARE	20 A	1				0	2704			1	2	65 A	47-ODU-2E202A	40
41	SPARE	20 A	1						0	2704	--	--	--	--	42
				Total Conn. Load:	4680 VA		6656 VA		7384 VA						
				Total Amps:	39 A		58 A		64 A						

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
HVAC	18720 VA	100.00%	18720 VA		
				Total Conn. Load:	18720 VA
				Total Est. Demand:	18720 VA
				Total Conn. Current:	52 A
				Total Est. Demand Current:	52 A

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

Branch Panel: (E) 5EQL1

Location: ELECT. 5E519 **Volts:** 120/208 Wye **A.I.C. Rating:** 22000
Supply From: **Phases:** 3 **Mains Type:** MCB
Mounting: Surface **Wires:** 4 **Mains Rating:** 150 A
Enclosure: Type 1 **MCB Rating:** 150 A

CKT	Circuit Description	Trip	Poles	Notes	A		B		C		Notes	Poles	Trip	Circuit Description	CKT
1	SPARE	60 A	3		0	0						1	20 A	SPARE	2
3	--	--	--	--			0	0				1	20 A	(E) EF-5S & 5E	4
5	--	--	--	--					0	0		1	20 A	(E) VAV	6
7	SPACE	--	3		--	0						1	15 A	(E) AC-6 CONTROLS	8
9	--	--	--	--			--	0				1	15 A	(E) AC-5 CONTROLS	10
11	--	--	--	--					--	0		1	15 A	(E) CHILLER CONTROLS	12
13	(E) PANEL 5EQL2	60 A	3		0	0						1	20 A	SPARE	14
15	--	--	--	--			0	0				1	20 A	SPARE	16
17	--	--	--	--					0	0		1	20 A	SPARE	18
19	47-ODU-A301	65 A	2	1	2704	0						1	20 A	SPARE	20
21	--	--	--	--			2704	0				1	20 A	(E) ROOF EXHAUST FAN	22
23	47-ODU-A401	65 A	2	1					2704	0		1	20 A	SPARE	24
25	--	--	--	--	2704	0						1	20 A	SPARE	26
27	47-ODU-A501	65 A	2	1			2704	0				1	20 A	SPARE	28
29	--	--	--	--					2704	0	2	1	20 A	(E) VAV CONTROLS	30
				Total Conn. Load:	5408 VA		5408 VA		5408 VA						
				Total Amps:	45 A		45 A		45 A						

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
HVAC	16224 VA	100.00%	16224 VA		
				Total Conn. Load:	16224 VA
				Total Est. Demand:	16224 VA
				Total Conn. Current:	45 A
				Total Est. Demand Current:	45 A

Notes:
1. NEW BREAKER SHALL MATCH EXISTING PANEL MANUFACTURER AND AIC RATING, AND SHALL MAINTAIN PANEL UL RATING.
2. RELOCATE EXISTING CIRCUIT BREAKER FROM PANEL SPACE #21 LABELED "VAV CONTROLS" TO THIS LOCATION. CONTRACTOR SHALL FIELD VERIFY AND REPORT ANY DISCREPANCIES TO THE DOR.

GENERAL NOTES:

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

PANEL SCHEDULE KEY PLAN

(E) BEH-1	(E) BEQL	(E) BEQH1
(E) 2ELB	(E) 2EQL1	(E) 5EQL1
-	-	

Revisions: **Date:**

ARCHITECT/ENGINEER OF RECORD

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12/18/2025

Facilities Management Services

VA U.S. Department of Veterans Affairs

Drawing Title PANEL SCHEDULES
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-EP612
SHEET 406 of 559

VA FORM 08 - 6231
Autodesk Docs://Asheville EHRM_V23/637-22-700-047 E ASH - EHRM.rvt
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MECHANICAL EQUIPMENT SCHEDULE

UNIT ID	EQUIPMENT DESCRIPTION	LOCATION	VOLTS	PHASE SIZE	HP	LOAD (KVA)	FLA	MCA	MOCP	CONDUIT & WIRE	CONNECTION TYPE	DISCONNECT DESCRIPTION	DISC NEMA RATING	DISC BY	STARTER DESCRIPTION	STARTER PROVIDED BY	SCCR	CIRCUIT ID	NOTES
47-CP-1	CONDENSATE PUMP		120 V	1P 2W	1/30 HP	0.18 kVA	1.5 A	2 A	15 A	2#12 CU & 1#12 G IN 3/4" CONDUIT	RECEPTACLE	NEMA 5-20R	NEMA 1	DIV 26	-	-			REFER TO 47-EP401. CIRCUIT WITH 47-CP-2 TO PANEL BC11 OR NEAREST AVAILABLE 120V, GENERATOR-BACKED PANEL.
47-CP-2	CONDENSATE PUMP		120 V	1P 2W	1/30 HP	0.18 kVA	1.5 A	2 A	15 A	2#12 CU & 1#12 G IN 3/4" CONDUIT	RECEPTACLE	NEMA 5-20R	NEMA 1	DIV 26	-	-			REFER TO 47-EP401. CIRCUIT WITH 47-CP-1 TO PANEL BC11 OR NEAREST AVAILABLE 120V, GENERATOR-BACKED PANEL.
47-CRAC-1A	CRAC UNIT		480 V	3P 3W		27.02 kVA	32.5 A	40 A	50 A	3#6 CU & 1#10 G IN 1" CONDUIT	HARDWIRED	60A/3P/NF	NEMA 1	DIV 26	-	-	35000	(E) BEH-1-31,33,35	
47-CRAC-1B	CRAC UNIT		480 V	3P 3W		27.02 kVA	32.5 A	40 A	50 A	3#6 CU & 1#10 G IN 1" CONDUIT	HARDWIRED	60A/3P/NF	NEMA 1	DIV 26	-	-	35000	(E) BEQH-1-26,28,30	
47-CRAC-2A	CRAC UNIT		480 V	3P 3W		69.59 kVA	83.7 A	92 A	110 A	3#1 CU & 1#6 G IN 1-1/4" CONDUIT	HARDWIRED	200A/3P/NF	NEMA 1	DIV 26	-	-	35000	(E) BEH-1-37,39,41	
47-CRAC-2B	CRAC UNIT		480 V	3P 3W		69.59 kVA	83.7 A	92 A	110 A	3#1 CU & 1#6 G IN 1-1/4" CONDUIT	HARDWIRED	200A/3P/NF	NEMA 1	DIV 26	-	-	35000	(E) BEQH-1-32,34,36	
47-CU-1A	CONDENSING UNIT	BLDG EXTERIOR	480 V	3P 3W		2.33 kVA	2.8 A	3 A	15 A	3#12 CU & 1#12 G IN 3/4" CONDUIT	HARDWIRED	30A/3P/F - 15A	NEMA 3R	DIV 26	-	-	35000	(E) BEH-1-15,17,19	CORRESPONDS WITH 47-CRAC-1A.
47-CU-1B	CONDENSING UNIT	BLDG EXTERIOR	480 V	3P 3W		2.33 kVA	2.8 A	3 A	15 A	3#12 CU & 1#12 G IN 3/4" CONDUIT	HARDWIRED	30A/3P/F - 15A	NEMA 3R	DIV 26	-	-	35000	(E) BEQH-1-14,16,18	CORRESPONDS WITH 47-CRAC-1B.
47-CU-2A	CONDENSING UNIT	BLDG EXTERIOR	480 V	3P 3W		4.66 kVA	5.6 A	6 A	15 A	3#12 CU & 1#12 G IN 3/4" CONDUIT	HARDWIRED	30A/3P/F - 15A	NEMA 3R	DIV 26	-	-	35000	(E) BEH-1-21,23,25	CORRESPONDS WITH 47-CRAC-2A.
47-CU-2B	CONDENSING UNIT	BLDG EXTERIOR	480 V	3P 3W		4.66 kVA	5.6 A	6 A	15 A	3#12 CU & 1#12 G IN 3/4" CONDUIT	HARDWIRED	30A/3P/F - 15A	NEMA 3R	DIV 26	-	-	35000	(E) BEQH-1-20,22,24	CORRESPONDS WITH 47-CRAC-2B.
47-IDU-1A137	SPLIT SYSTEM INDOOR UNIT		208 V	2P 2W		0.62 kVA	3.0 A	4 A	15 A	2#12 CU & 1#12 G IN 3/4" CONDUIT	HARDWIRED	MOTOR RATED TOGGLE SWITCH	NEMA 1	DIV 26	-	-	10000		INTERWIRE WITH OUTDOOR UNIT (47-ODU-1A137). PROVIDE RECEPTACLE FOR CONDENSATE PUMP FED FROM PANEL SERVING ROOM. LOCATE WITHIN 6FT OF CONDENSATE PUMP. COORDINATE WITH MECHANICAL.
47-IDU-1B134	SPLIT SYSTEM INDOOR UNIT		208 V	2P 2W		0.62 kVA	3.0 A	4 A	15 A	2#12 CU & 1#12 G IN 3/4" CONDUIT	HARDWIRED	MOTOR RATED TOGGLE SWITCH	NEMA 1	DIV 26	-	-	10000		INTERWIRE WITH OUTDOOR UNIT (47-ODU-1B134). PROVIDE RECEPTACLE FOR CONDENSATE PUMP FED FROM PANEL SERVING ROOM. LOCATE WITHIN 6FT OF CONDENSATE PUMP. COORDINATE WITH MECHANICAL.
47-IDU-1D144	SPLIT SYSTEM INDOOR UNIT		208 V	2P 2W		0.62 kVA	3.0 A	4 A	15 A	2#12 CU & 1#12 G IN 3/4" CONDUIT	HARDWIRED	MOTOR RATED TOGGLE SWITCH	NEMA 1	DIV 26	-	-	10000	(E) 1CLD1-A-39,41	PROVIDE RECEPTACLE FOR CONDENSATE PUMP FED FROM PANEL SERVING ROOM. LOCATE WITHIN 6FT OF CONDENSATE PUMP. COORDINATE WITH MECHANICAL.
47-IDU-1H113	SPLIT SYSTEM INDOOR UNIT		208 V	2P 2W		0.62 kVA	3.0 A	4 A	15 A	2#12 CU & 1#12 G IN 3/4" CONDUIT	HARDWIRED	MOTOR RATED TOGGLE SWITCH	NEMA 1	DIV 26	-	-	10000	(E) 1C4-12,14	PROVIDE RECEPTACLE FOR CONDENSATE PUMP FED FROM PANEL SERVING ROOM. LOCATE WITHIN 6FT OF CONDENSATE PUMP. COORDINATE WITH MECHANICAL.
47-IDU-1W133	SPLIT SYSTEM INDOOR UNIT		208 V	2P 2W		0.62 kVA	3.0 A	4 A	15 A	2#12 CU & 1#12 G IN 3/4" CONDUIT	HARDWIRED	MOTOR RATED TOGGLE SWITCH	NEMA 1	DIV 26	-	-	10000		INTERWIRE WITH OUTDOOR UNIT (47-ODU-1W113). PROVIDE RECEPTACLE FOR CONDENSATE PUMP FED FROM PANEL SERVING ROOM. LOCATE WITHIN 6FT OF CONDENSATE PUMP. COORDINATE WITH MECHANICAL.
47-IDU-2A246	SPLIT SYSTEM INDOOR UNIT		208 V	2P 2W		0.62 kVA	3.0 A	4 A	15 A	2#12 CU & 1#12 G IN 3/4" CONDUIT	HARDWIRED	MOTOR RATED TOGGLE SWITCH	NEMA 1	DIV 26	-	-	10000		INTERWIRE WITH OUTDOOR UNIT (47-ODU-2A246). PROVIDE RECEPTACLE FOR CONDENSATE PUMP FED FROM PANEL SERVING ROOM. LOCATE WITHIN 6FT OF CONDENSATE PUMP. COORDINATE WITH MECHANICAL.
47-IDU-2B212	SPLIT SYSTEM INDOOR UNIT		208 V	2P 2W		0.62 kVA	3.0 A	4 A	15 A	2#12 CU & 1#12 G IN 3/4" CONDUIT	HARDWIRED	MOTOR RATED TOGGLE SWITCH	NEMA 1	DIV 26	-	-	10000		INTERWIRE WITH OUTDOOR UNIT (47-ODU-2B212). PROVIDE RECEPTACLE FOR CONDENSATE PUMP FED FROM PANEL SERVING ROOM. LOCATE WITHIN 6FT OF CONDENSATE PUMP. COORDINATE WITH MECHANICAL.
47-IDU-2E202A	SPLIT SYSTEM INDOOR UNIT		208 V	2P 2W		0.62 kVA	3.0 A	4 A	15 A	2#12 CU & 1#12 G IN 3/4" CONDUIT	HARDWIRED	MOTOR RATED TOGGLE SWITCH	NEMA 1	DIV 26	-	-	10000		INTERWIRE WITH OUTDOOR UNIT (47-ODU-2E202A). PROVIDE RECEPTACLE FOR CONDENSATE PUMP FED FROM PANEL SERVING ROOM. LOCATE WITHIN 6FT OF CONDENSATE PUMP. COORDINATE WITH MECHANICAL.
47-IDU-A301	SPLIT SYSTEM INDOOR UNIT		208 V	2P 2W		0.62 kVA	3.0 A	4 A	15 A	2#12 CU & 1#12 G IN 3/4" CONDUIT	HARDWIRED	MOTOR RATED TOGGLE SWITCH	NEMA 1	DIV 26	-	-	10000		INTERWIRE WITH OUTDOOR UNIT (47-ODU-A301). PROVIDE RECEPTACLE FOR CONDENSATE PUMP FED FROM PANEL SERVING ROOM. LOCATE WITHIN 6FT OF CONDENSATE PUMP. COORDINATE WITH MECHANICAL.
47-IDU-A401	SPLIT SYSTEM INDOOR UNIT		208 V	2P 2W		0.62 kVA	3.0 A	4 A	15 A	2#12 CU & 1#12 G IN 3/4" CONDUIT	HARDWIRED	MOTOR RATED TOGGLE SWITCH	NEMA 1	DIV 26	-	-	10000		INTERWIRE WITH OUTDOOR UNIT (47-ODU-A401). PROVIDE RECEPTACLE FOR CONDENSATE PUMP FED FROM PANEL SERVING ROOM. LOCATE WITHIN 6FT OF CONDENSATE PUMP. COORDINATE WITH MECHANICAL.
47-IDU-A501	SPLIT SYSTEM INDOOR UNIT		208 V	2P 2W		0.62 kVA	3.0 A	4 A	15 A	2#12 CU & 1#12 G IN 3/4" CONDUIT	HARDWIRED	MOTOR RATED TOGGLE SWITCH	NEMA 1	DIV 26	-	-	10000		INTERWIRE WITH OUTDOOR UNIT (47-ODU-A501). PROVIDE RECEPTACLE FOR CONDENSATE PUMP FED FROM PANEL SERVING ROOM. LOCATE WITHIN 6FT OF CONDENSATE PUMP. COORDINATE WITH MECHANICAL.
47-IDU-BB018	SPLIT SYSTEM INDOOR UNIT		208 V	2P 2W		0.62 kVA	3.0 A	4 A	15 A	2#12 CU & 1#12 G IN 3/4" CONDUIT	HARDWIRED	MOTOR RATED TOGGLE SWITCH	NEMA 1	DIV 26	-	-	10000		INTERWIRE WITH OUTDOOR UNIT (47-ODU-BB018). PROVIDE RECEPTACLE FOR CONDENSATE PUMP FED FROM PANEL SERVING ROOM. LOCATE WITHIN 6FT OF CONDENSATE PUMP. COORDINATE WITH MECHANICAL.
47-IDU-BC118A	SPLIT SYSTEM INDOOR UNIT		208 V	2P 2W		0.42 kVA	2.0 A	3 A	15 A	2#12 CU & 1#12 G IN 3/4" CONDUIT	HARDWIRED	MOTOR RATED TOGGLE SWITCH	NEMA 1	DIV 26	-	-	10000		INTERWIRE WITH OUTDOOR UNIT (47-ODU-BC118A). PROVIDE RECEPTACLE FOR CONDENSATE PUMP FED FROM PANEL SERVING ROOM. LOCATE WITHIN 6FT OF CONDENSATE PUMP. COORDINATE WITH MECHANICAL.
47-IDU-BC118B	SPLIT SYSTEM INDOOR UNIT		208 V	2P 2W		0.42 kVA	2.0 A	3 A	15 A	2#12 CU & 1#12 G IN 3/4" CONDUIT	HARDWIRED	MOTOR RATED TOGGLE SWITCH	NEMA 1	DIV 26	-	-	10000		INTERWIRE WITH OUTDOOR UNIT (47-ODU-BC118A). PROVIDE RECEPTACLE FOR CONDENSATE PUMP FED FROM PANEL SERVING ROOM. LOCATE WITHIN 6FT OF CONDENSATE PUMP. COORDINATE WITH MECHANICAL.
47-IDU-BC131A	SPLIT SYSTEM INDOOR UNIT		208 V	2P 2W		0.42 kVA	2.0 A	3 A	15 A	2#12 CU & 1#12 G IN 3/4" CONDUIT	HARDWIRED	MOTOR RATED TOGGLE SWITCH	NEMA 1	DIV 26	-	-	10000		INTERWIRE WITH OUTDOOR UNIT (47-ODU-BC131A). PROVIDE RECEPTACLE FOR CONDENSATE PUMP FED FROM PANEL SERVING ROOM. LOCATE WITHIN 6FT OF CONDENSATE PUMP. COORDINATE WITH MECHANICAL.
47-IDU-BC131B	SPLIT SYSTEM INDOOR UNIT		208 V	2P 2W		0.42 kVA	2.0 A	3 A	15 A	2#12 CU & 1#12 G IN 3/4" CONDUIT	HARDWIRED	MOTOR RATED TOGGLE SWITCH	NEMA 1	DIV 26	-	-	10000		INTERWIRE WITH OUTDOOR UNIT (47-ODU-BC131B). PROVIDE RECEPTACLE FOR CONDENSATE PUMP FED FROM PANEL SERVING ROOM. LOCATE WITHIN 6FT OF CONDENSATE PUMP. COORDINATE WITH MECHANICAL.
47-IDU-BC143A	SPLIT SYSTEM INDOOR UNIT		208 V	2P 2W		0.42 kVA	2.0 A	3 A	15 A	2#12 CU & 1#12 G IN 3/4" CONDUIT	HARDWIRED	MOTOR RATED TOGGLE SWITCH	NEMA 1	DIV 26	-	-	10000		INTERWIRE WITH OUTDOOR UNIT (47-ODU-BC143A). PROVIDE RECEPTACLE FOR CONDENSATE PUMP FED FROM PANEL SERVING ROOM. LOCATE WITHIN 6FT OF CONDENSATE PUMP. COORDINATE WITH MECHANICAL.
47-IDU-BC143B	SPLIT SYSTEM INDOOR UNIT		208 V	2P 2W		0.42 kVA	2.0 A	3 A	15 A	2#12 CU & 1#12 G IN 3/4" CONDUIT	HARDWIRED	MOTOR RATED TOGGLE SWITCH	NEMA 1	DIV 26	-	-	10000		INTERWIRE WITH OUTDOOR UNIT (47-ODU-BC143B). PROVIDE RECEPTACLE FOR CONDENSATE PUMP FED FROM PANEL SERVING ROOM. LOCATE WITHIN 6FT OF CONDENSATE PUMP. COORDINATE WITH MECHANICAL.
47-IDU-BC143C	SPLIT SYSTEM INDOOR UNIT		208 V	2P 2W		0.33 kVA	1.6 A	2 A	15 A	2#12 CU & 1#12 G IN 3/4" CONDUIT	HARDWIRED	MOTOR RATED TOGGLE SWITCH	NEMA 1	DIV 26	-	-	10000	(E) BEQL-37,39	PROVIDE RECEPTACLE FOR CONDENSATE PUMP FED FROM PANEL SERVING ROOM. LOCATE WITHIN 6FT OF CONDENSATE PUMP. COORDINATE WITH MECHANICAL.
47-IDU-BF107	SPLIT SYSTEM INDOOR UNIT		208 V	2P 2W		0.62 kVA	3.0 A	4 A	15 A	2#12 CU & 1#12 G IN 3/4" CONDUIT	HARDWIRED	MOTOR RATED TOGGLE SWITCH	NEMA 1	DIV 26	-	-	10000		INTERWIRE WITH OUTDOOR UNIT (47-ODU-BF107). PROVIDE RECEPTACLE FOR CONDENSATE PUMP FED FROM PANEL SERVING ROOM. LOCATE WITHIN 6FT OF CONDENSATE PUMP. COORDINATE WITH MECHANICAL.
47-IF-1	SPLIT SYSTEM INDOOR UNIT		120 V	1P 2W	1/15 HP	0.16 kVA	1.3 A	2 A	15 A	2#12 CU & 1#12 G IN 3/4" CONDUIT	HARDWIRED	MOTOR RATED TOGGLE SWITCH	NEMA 1	DIV 26	-	-	10000	(E) BEQL-41	
47-ODU-1A137	DUCTLESS SPLIT SYSTEM	ROOF	208 V	2P 2W	-	5.41 kVA	26.0 A	32 A	65 A	2#4 CU & 1#8 G IN 3/4" CONDUIT	HARDWIRED	100A/2P/NF	NEMA 3R	DIV 26	-	-	10000	(E) 2CLA-B-21,23	INTERWIRE WITH INDOOR UNIT
47-ODU-1B134	DUCTLESS SPLIT SYSTEM	ROOF	208 V	2P 2W	-	5.41 kVA	26.0 A	32 A	65 A	2#4 CU & 1#8 G IN 3/4" CONDUIT	HARDWIRED	100A/2P/NF	NEMA 3R	DIV 26	-	-	10000	(E) 2ELB-35,37	INTERWIRE WITH INDOOR UNIT
47-ODU-1D144	DUCTLESS SPLIT SYSTEM	BLDG EXTERIOR	208 V	2P 2W	-	5.41 kVA	26.0 A	32 A	65 A	2#4 CU & 1#8 G IN 3/4" CONDUIT	HARDWIRED	100A/2P/NF	NEMA 3R	DIV 26	-	-	10000	(E) BEQL-5,7	
47-ODU-1H113	DUCTLESS SPLIT SYSTEM	ROOF	208 V	2P 2W	-	5.41 kVA	26.0 A	32 A	65 A	2#4 CU & 1#8 G IN 3/4" CONDUIT	HARDWIRED	100A/2P/NF	NEMA 3R	DIV 26	-	-	10000	(E) BEQL-9,11	
47-ODU-1W133	DUCTLESS SPLIT SYSTEM	ROOF	208 V	2P 2W	-	5.41 kVA	26.0 A	32 A	65 A	2#4 CU & 1#8 G IN 3/4" CONDUIT	HARDWIRED	100A/2P/NF	NEMA 3R	DIV 26	-	-	10000	(E) 2EQL1-36,38	INTERWIRE WITH INDOOR UNIT
47-ODU-2A246	DUCTLESS SPLIT SYSTEM	ROOF	208 V	2P 2W	-	5.41 kVA	26.0 A	32 A	65 A	2#4 CU & 1#8 G IN 3/4" CONDUIT	HARDWIRED	100A/2P/NF	NEMA 3R	DIV 26	-	-	10000	(E) 2CLA-B-25,27	INTERWIRE WITH INDOOR UNIT
47-ODU-2B212	DUCTLESS SPLIT SYSTEM	ROOF	208 V	2P 2W	-	5.41 kVA	26.0 A	32 A	65 A	2#4 CU & 1#8 G IN 3/4" CONDUIT	HARDWIRED	100A/2P/NF	NEMA 3R	DIV 26	-	-	10000	(E) 2ELB-39,41	INTERWIRE WITH INDOOR UNIT
47-ODU-2E202A	DUCTLESS SPLIT SYSTEM	ROOF	208 V	2P 2W	-	5.41 kVA	26.0 A	32 A	65 A	2#4 CU & 1#8 G IN 3/4" CONDUIT	HARDWIRED	100A/2P/NF	NEMA 3R	DIV 26	-	-	10000	(E) 2EQL1-40,42	INTERWIRE WITH INDOOR UNIT
47-ODU-A301	DUCTLESS SPLIT SYSTEM	ROOF	208 V	2P 2W	-	5.41 kVA	26.0 A	32 A	65 A	2#4 CU & 1#8 G IN 3/4" CONDUIT	HARDWIRED	100A/2P/NF	NEMA 3R	DIV 26	-	-	10000	(E) 5EQL1-19,21	INTERWIRE WITH INDOOR UNIT
47-ODU-A401	DUCTLESS SPLIT SYSTEM	ROOF	208 V	2P 2W	-	5.41 kVA	26.0 A	32 A	65 A	2#4 CU & 1#8 G IN 3/4" CONDUIT	HARDWIRED	100A/2P/NF	NEMA 3R	DIV 26	-	-	10000	(E) 5EQL1-23,25	INTERWIRE WITH INDOOR UNIT
47-ODU-A501	DUCTLESS SPLIT SYSTEM	ROOF	208 V	2P 2W	-	5.41 kVA	26.0 A	32 A	65 A	2#4 CU & 1#8 G IN 3/4" CONDUIT	HARDWIRED	100A/2P/NF	NEMA 3R	DIV 26	-	-	10000	(E) 5EQL1-27,29	INTERWIRE WITH INDOOR UNIT
47-ODU-BB018	DUCTLESS SPLIT SYSTEM	ROOF	208 V	2P 2W	-	5.41 kVA	26.0 A	32 A	65 A	2#4 CU & 1#8 G IN 3/4" CONDUIT	HARDWIRED	100A/2P/NF	NEMA 3R	DIV 26	-	-	10000	(E) 2ELB-31,33	INTERWIRE WITH INDOOR UNIT
47-ODU-BC118A	DUCTLESS SPLIT SYSTEM	ROOF	208 V	2P 2W	-	3.95 kVA	19.0 A	24 A	50 A	2#6 CU & 1#10 G IN 3/4" CONDUIT	HARDWIRED	60A/2P/NF	NEMA 3R	DIV 26	-	-	10000	(E) 2EQL1-28,30	INTERWIRE WITH INDOOR UNIT
47-ODU-BC118B	DUCTLESS SPLIT SYSTEM	ROOF	208 V	2P 2W	-	3.95 kVA	19.0 A	24 A	50 A	2#6 CU & 1#10 G IN 3/4" CONDUIT	HARDWIRED	60A/2P/NF	NEMA 3R	DIV 26	-	-	10000	(E) 2EQL1-32,34	INTERWIRE WITH INDOOR UNIT
47-ODU-BC131A	DUCTLESS SPLIT SYSTEM	BLDG EXTERIOR	208 V	2P 2W	-	3.95 kVA	19.0 A	24 A	50 A	2#6 CU & 1#10 G IN 3/4" CONDUIT	HARDWIRED	60A/2P/NF	NEMA 3R	DIV 26	-	-	10000	(E) BEQL-29,31	INTERWIRE WITH INDOOR UNIT
47-ODU-BC131B	DUCTLESS SPLIT SYSTEM	BLDG EXTERIOR	208 V	2P 2W	-	3.95 kVA	19.0 A	24 A	50 A	2#6 CU & 1#10 G IN 3/4" CONDUIT	HARDWIRED	60A/2P/NF	NEMA 3R	DIV 26	-	-	10000	(E) BEQL-33,35	INTERWIRE WITH INDOOR UNIT
47-ODU-BC143A	DUCTLESS SPLIT SYSTEM	BLDG EXTERIOR	208 V	2P 2W	-	3.95 kVA	19.0 A	24 A	50 A	2#6 CU & 1#10 G IN 3/4" CONDUIT	HARDWIRED	60A/2P/NF	NEMA 3R	DIV 26	-	-	10000	(E) BEQL-17,19	INTERWIRE WITH INDOOR UNIT
47-ODU-BC143B	DUCTLESS SPLIT SYSTEM	BLDG EXTERIOR	208 V	2P 2W	-	3.95 kVA	19.0 A	24 A	50 A	2#6 CU & 1#10 G IN 3/4" CONDUIT	HARDWIRED	60A/2P/NF	NEMA 3R	DIV 26	-	-	10000	(E) BEQL-21,23	INTERWIRE WITH INDOOR UNIT
47-ODU-BC143C	SPLIT SYSTEM	BLDG EXTERIOR	208 V	2P 2W	-	5.30 kVA	25.5 A	35 A	35 A	2#6 CU & 1#8 G IN 3/4" CONDUIT	HARDWIRED	60A/2P/NF	NEMA 3R	DIV 26	-	-	10000	(E) BEQL-25,27	INTERWIRE WITH INDOOR UNIT; CABLE UPSIZED FOR VOLTAGE DROP.
47-ODU-BF107	DUCTLESS SPLIT SYSTEM	ROOF	208 V	2P 2W	-	5.41 kVA	26.0 A	32 A	65 A	2#4 CU & 1#8 G IN 3/4" CONDUIT	HARDWIRED	100A/2P/NF	NEMA 3R	DIV 26	-	-	10000	(E) BEQL-13,15	

EQUIPMENT SCHEDULE

UNIT ID	EQUIPMENT DESCRIPTION	LOCATION	VOLTS	PHASE SIZE	LOAD (KVA)	FLA	CONDUIT & WIRE	CONNECTION TYPE	DISCONNECT DESCRIPTION	DISC NEMA RATING	DISC BY	CIRCUIT ID	NOTES
FARP	FIRE ALARM RELEASING PANEL		120 V	1P 2W	0.36 kVA	3 A	2#12 CU & 1#12 G IN 3/4" CONDUIT	HARDWIRED	INTEGRAL TO CONTROL PANEL	NEMA 1	-	(E) BLL1-23	COORDINATE FINAL INSTALLATION WITH FIRE PROTECTION.

BUSWAY SCHEDULE

BUSWAY NAME	BUSWAY MANUFACTURE	BUSWAY MODEL#	BUS RATING	CONNECTED LOAD	BUSWAY LENGTH
BUSWAY 1A	STARLINE	60T2	60 A	21 A	18'-0"
BUSWAY 1B	STARLINE	60T2	60 A	21 A	18'-0"
BUSWAY 2A	STARLINE	225T3C4	225 A	149 A	25'-0"
BUSWAY 2B	STARLINE	225T3C4	225 A	149 A	25'-0"
BUSWAY 3A	STARLINE	225T3C4	225 A	121 A	25'-0"
BUSWAY 3B	STARLINE	225T3C4	225 A	121 A	25'-0"

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VA FORM 08 - 6231

Revisions: | Date:

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12/18/2025

Facilities Management Services

VA U.S. Department of Veterans Affairs

Drawing Title: ELECTRICAL SCHEDULES

Approved:

FOR OFFICIAL USE ONLY

Phase: FINAL BID DOCUMENTS

Project Title: EHRM INFRASTRUCTURE UPGRADES

Location: 1100 TUNNEL ROAD ASHEVILLE, NC 28805

Issue Date: 12.19.2025 | Checked | Drawn

Project Number: 637-22-700

Building Number: BLDG 47

Drawing Number: 47-EP613