SHEET NOTES:

1. REMOVE ALL NETWORK CABLING TO POINTS OF TERMINATION IN ASSOCIATED TELECOM ROOMS. REFER TO FLOOR PLANS AND SHEET T1001 FOR TR ROOM LOCATIONS.
2. REFER TO ARCHITECTURAL PHASING PLANS FOR WHEN EXISTING CABLING IS ALLOWED TO BE DEMOLISHED.
3. FOR ALL EXISTING WIRELESS ACCESS POINTS AND SURVEILLANCE CAMERAS, DEVICES SHALL REMAIN. SCOPE OF WORK INCLUDES CABLE REPLACEMENT ONLY. COORDINATE WITH COR FOR ANY DOWNTIME OF DEVICES.
4. EXISTING LOCATIONS OF WORK AREA OUTLETS SHOWN ON THIS SHEET MAY NOT NECESSARILY BE IN THE EXACT LOCATION AS IDENTIFIED.

1 BUILDING 144 FIRST FLOOR DEMOLITION PLAN - TECHNOLOGY - AREA B

1/8" = 1'-0"

TRUE NORTH
PLAN NORTH

35% SCHEMATIC DESIGN SUBMISSION	5.17.21
65% DESIGN DEVELOPMENT SUBMISSION	6.15.21
65% DESIGN DEVELOPMENT RESUBMISSION	8.25.21
Revisions:	Date:

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Drawing Title: BUILDING 144 FIRST FLOOR DEMO PLAN - TECHNOLOGY - AREA B	Phase: FINAL BID DOCUMENTS	Project Title: EHRM INFRASTRUCTURE UPGRADES - MILWAUKEE, WI	Project Number: 695-21-700
Approved:	Sprinklered: FULLY SPRINKLERED	Location: 5000 W. NATIONAL AVENUE MILWAUKEE, WI	Building Number: 144
		Issue Date: SEPTEMBER 05, 2025 / Checked: PHINIE / Drawn: MAIBEJ	Drawing Number: 144-TD101B

VA FORM 08 - 6231

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SHEET NOTES:

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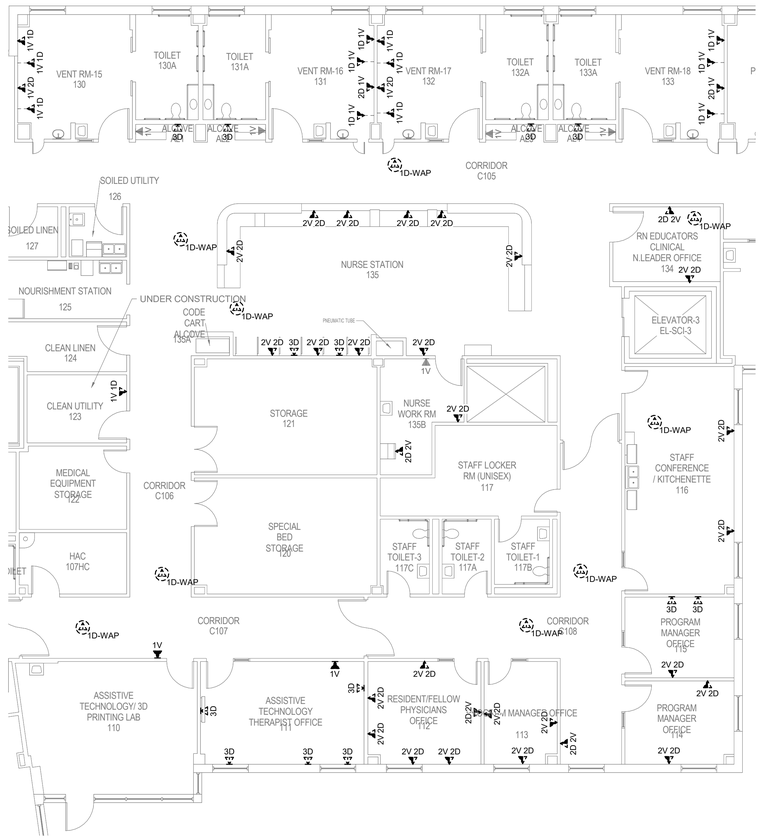

1 BUILDING 144 FIRST FLOOR DEMOLITION PLAN - TECHNOLOGY - AREA C

1/8" = 1'-0"

TRUE NORTH
PLAN NORTH

Revisions:	Date:
35% SCHEMATIC DESIGN SUBMISSION	5.17.21
65% DESIGN DEVELOPMENT SUBMISSION	6.15.21
65% DESIGN DEVELOPMENT RESUBMISSION	8.25.21

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Drawing Title: BUILDING 144 FIRST FLOOR DEMO PLAN - TECHNOLOGY - AREA C	Phase: FINAL BID DOCUMENTS	Project Title: EHRM INFRASTRUCTURE UPGRADES - MILWAUKEE, WI	Project Number: 695-21-700
			Building Number: 144
Approved:	Sprinklered: FULLY SPRINKLERED	Location: 5000 W. NATIONAL AVENUE MILWAUKEE, WI	Drawing Number: 144-TD101C
		Issue Date: SEPTEMBER 05, 2025 / Checked: PHINIE / Drawn: MAIBEJ	

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Graphic Scale: 1/16" = 1'-0"
Graphic Scale: 1/8" = 1'-0"
Graphic Scale: 3/32" = 1'-0"
Graphic Scale: 1/4" = 1'-0"
Graphic Scale: 3/8" = 1'-0"
Graphic Scale: 1/2" = 1'-0"
Graphic Scale: 3/4" = 1'-0"
Graphic Scale: 1" = 1'-0"
Graphic Scale: 1 1/2" = 1'-0"

SHEET NOTES:

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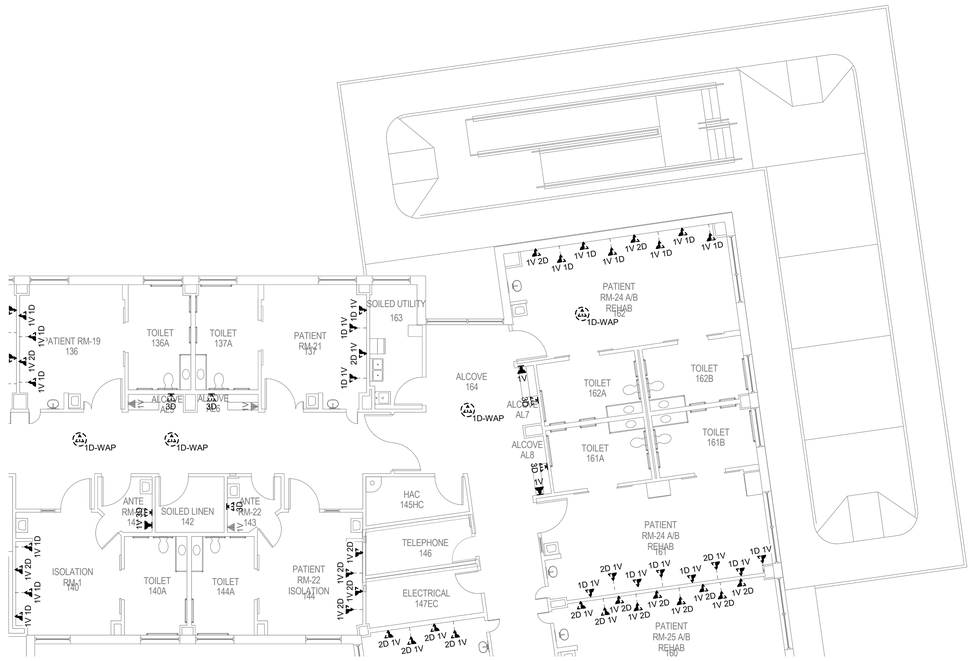

1 BUILDING 144 FIRST FLOOR DEMOLITION PLAN - TECHNOLOGY - AREA D

1/8" = 1'-0"

TRUE NORTH
PLAN NORTH

Revisions:	Date:
35% SCHEMATIC DESIGN SUBMISSION	5.17.21
65% DESIGN DEVELOPMENT SUBMISSION	6.15.21
65% DESIGN DEVELOPMENT RESUBMISSION	8.25.21

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Drawing Title
BUILDING 144 FIRST FLOOR DEMO PLAN - TECHNOLOGY - AREA D

Approved:

Phase
FINAL BID DOCUMENTS

Sprinklered
FULLY SPRINKLERED

Project Title
EHRM INFRASTRUCTURE UPGRADES - MILWAUKEE, WI

Location
5000 W. NATIONAL AVENUE MILWAUKEE, WI

Issue Date SEPTEMBER 05, 2025
Checked PHINIE
Drawn MAIBEJ

Project Number 695-21-700
Building Number 144
Drawing Number 144-TD101D

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SHEET NOTES:

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1 BUILDING 144 FIRST FLOOR DEMOLITION PLAN - TECHNOLOGY - AREA E

1/8" = 1'-0"

TRUE NORTH
PLAN NORTH

35% SCHEMATIC DESIGN SUBMISSION	5.17.21
65% DESIGN DEVELOPMENT SUBMISSION	6.15.21
65% DESIGN DEVELOPMENT RESUBMISSION	8.25.21
Revisions:	Date:

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Drawing Title
BUILDING 144 FIRST FLOOR DEMO PLAN - TECHNOLOGY - AREA E

Approved:

Phase
FINAL BID DOCUMENTS

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FULLY SPRINKLERED

Project Title
EHRM INFRASTRUCTURE UPGRADES - MILWAUKEE, WI

Location
5000 W. NATIONAL AVENUE MILWAUKEE, WI

Issue Date SEPTEMBER 05, 2025
Checked PHINIE
Drawn MAIBEJ

Project Number 695-21-700
Building Number 144
Drawing Number 144-TD101E

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SHEET NOTES:

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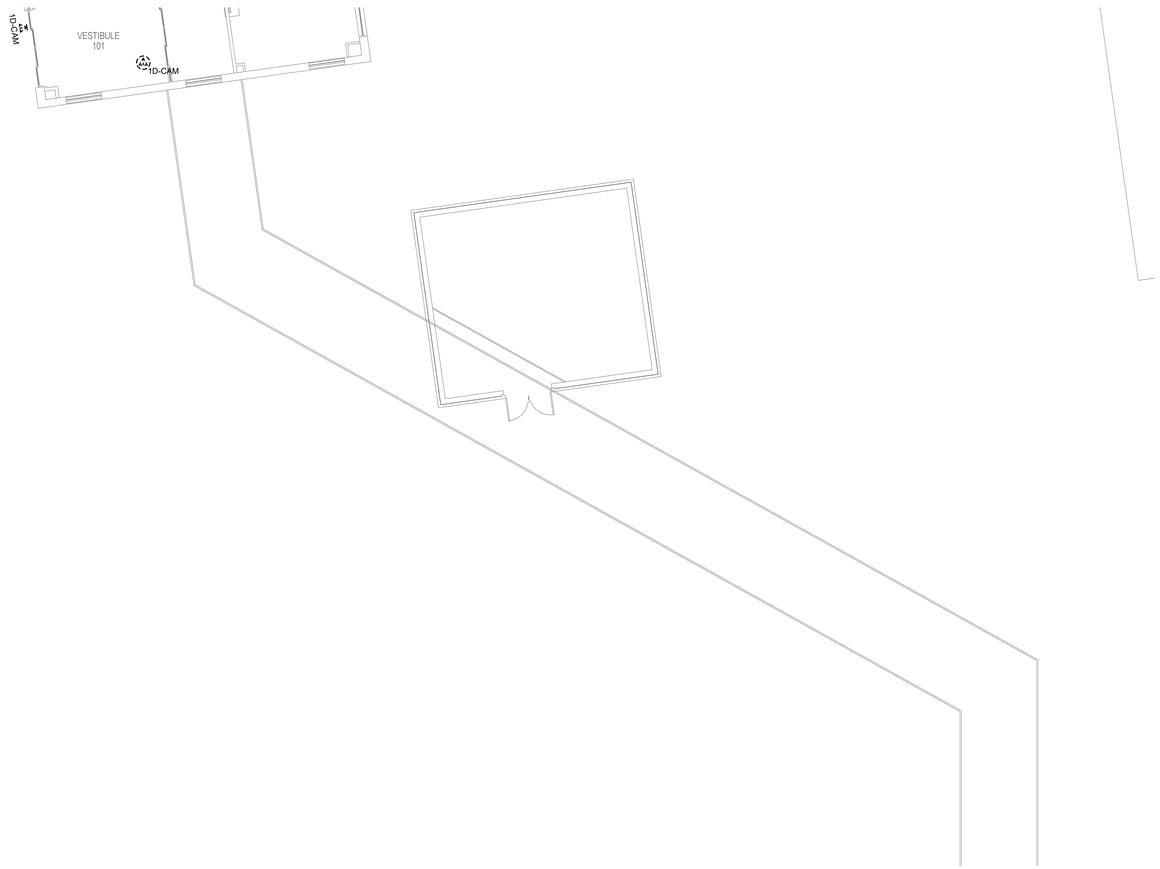

1 BUILDING 144 FIRST FLOOR DEMOLITION PLAN - TECHNOLOGY - AREA F

1/8" = 1'-0"

TRUE NORTH
PLAN NORTH

Revisions:	Date:
35% SCHEMATIC DESIGN SUBMISSION	5.17.21
65% DESIGN DEVELOPMENT SUBMISSION	6.15.21
65% DESIGN DEVELOPMENT RESUBMISSION	8.25.21

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VA U.S. Department of Veterans Affairs

Drawing Title BUILDING 144 FIRST FLOOR DEMO PLAN - TECHNOLOGY - AREA F	**Phase** FINAL BID DOCUMENTS	**Project Title** EHRM INFRASTRUCTURE UPGRADES - MILWAUKEE, WI	**Project Number** 695-21-700
			Building Number 144
Approved:	**Sprinklered** FULLY SPRINKLERED	**Location** 5000 W. NATIONAL AVENUE MILWAUKEE, WI	**Drawing Number** 144-TD101F
		Issue Date SEPTEMBER 05, 2025 / **Checked** PHINIE / **Drawn** MAIBEJ	

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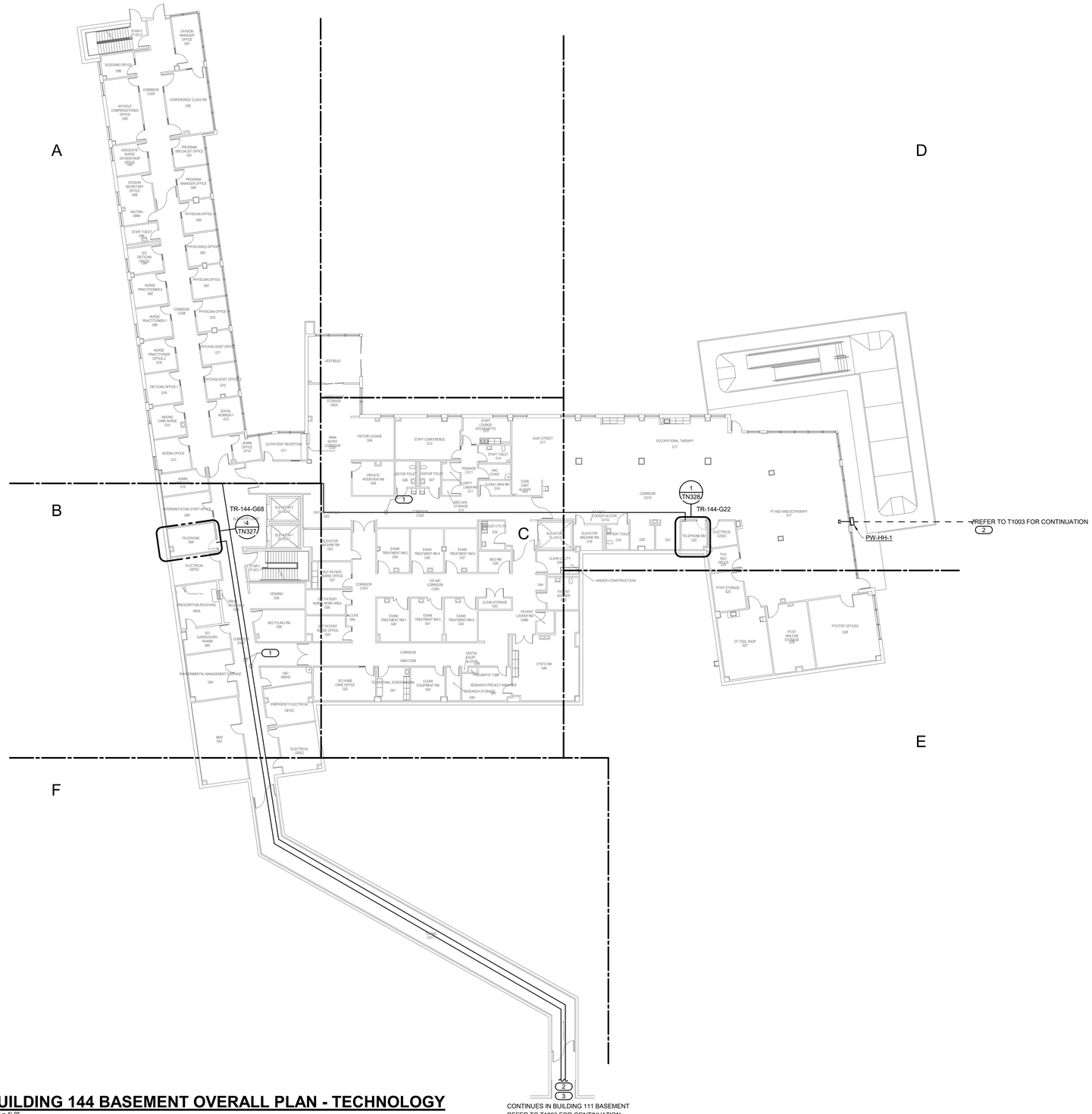
Graphic Scale: 1/8" = 1'-0"
Graphic Scale: 1/16" = 1'-0"
Graphic Scale: 3/32" = 1'-0"
Graphic Scale: 1/4" = 1'-0"
Graphic Scale: 3/8" = 1'-0"
Graphic Scale: 1/2" = 1'-0"
Graphic Scale: 3/4" = 1'-0"
Graphic Scale: 1" = 1'-0"
Graphic Scale: 1 1/2" = 1'-0"



1 BUILDING 144 BASEMENT OVERALL PLAN - TECHNOLOGY

1/16" = 1'-0"

GENERAL NOTES:

1. REFER TO INDIVIDUAL AREA BUILDING DEMO FLOOR PLANS FOR ADDITIONAL INFORMATION.
2. THESE DRAWINGS MAKE THE BEST ATTEMPT TO IDENTIFY EXISTING DATA DROPS/WORK AREA OUTLETS. AS LONG AS THE TOTAL NEWLY INSTALLED DATA DROP COUNT DOES NOT VARY +/- 10% IDENTIFIED ON THESE DRAWINGS, THE CONTRACTOR'S SCOPE SHALL BE UNCHANGED.
3. NEW WORK AREA OUTLETS SHALL BE LOCATED IN EXISTING BOXES. WORK AREA OUTLETS SHOWN ON THIS SHEET MAY NOT BE IN THE EXACT LOCATION AS IDENTIFIED.

KEYNOTES: (#)

1. FIBER PATHWAY A LEG.
2. TWO (2) 4" CONDUITS TO BACKBONE PATH.
3. EXISTING BACKBONE ENTRY POINT, PROTECT IN PLACE. DEMOLISH EXISTING FIBER OPTIC CABLE TO POINTS OF TERMINATION AFTER REDUNDANT PATH IS INSTALLED AND OPERATIONAL. REFER TO ARCHITECTURAL PHASING PLAN FOR ADDITIONAL INFORMATION. CONDUIT ENTERS ON LOWER LEVEL.

Revisions:	Date:
35% SCHEMATIC DESIGN SUBMISSION	5.17.21
65% DESIGN DEVELOPMENT SUBMISSION	6.15.21
65% DESIGN DEVELOPMENT RESUBMISSION	8.25.21

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Drawing Title: BUILDING 144 BASEMENT OVERALL PLAN - TECHNOLOGY

Approved:

Phase: FINAL BID DOCUMENTS

Sprinklered: FULLY SPRINKLERED

Project Title: EHRM INFRASTRUCTURE UPGRADES - MILWAUKEE, WI

Location: 5000 W. NATIONAL AVENUE MILWAUKEE, WI

Issue Date: SEPTEMBER 05, 2025 | Checked: PHINIE | Drawn: MAIBEJ

Project Number: 695-21-700

Building Number: 144

Drawing Number: 144-TN100

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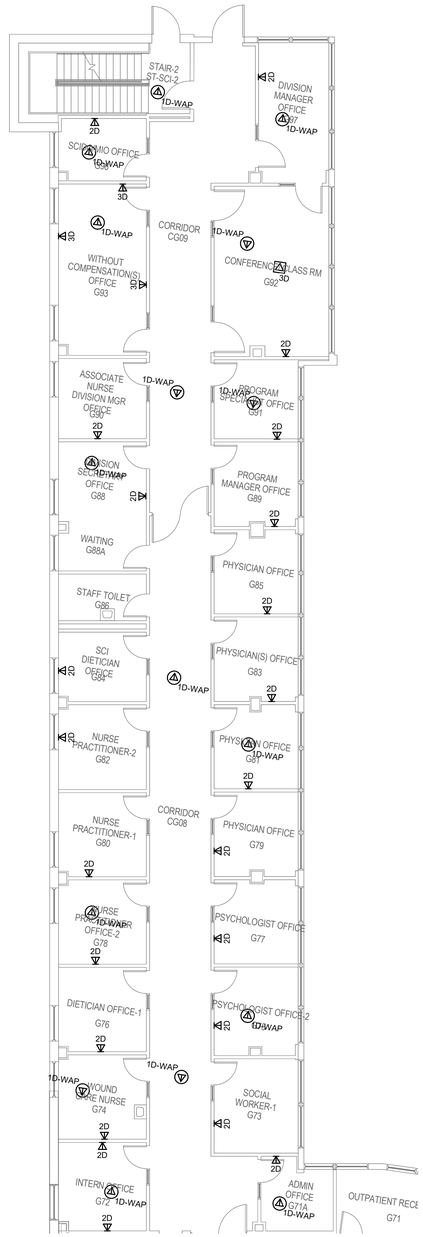

1 **BUILDING 144 BASEMENT PLAN - TECHNOLOGY - AREA A**
1/8" = 1'-0"

GENERAL NOTES:

1. REFER TO 1/TN400 FOR TECHNOLOGY ROUGH IN DETAIL.
2. ALL NETWORK CABLES ON THIS SHEET SHALL TERMINATE IN TR-144-G68.
3. CONTRACTOR TO PROVIDE NEW J-HOOK ROUTES FOR ALL NEW CABLING. J-HOOK SIZE AND QUANTITY TO BE PER MANUFACTURER RECOMMENDATIONS.
4. REFER TO TN500-TN509 FOR RISER DIAGRAMS.
5. REFER TO SHEET TN402 FOR PENETRATION DETAILS.
6. THESE DRAWINGS MAKE THE BEST ATTEMPT TO IDENTIFY EXISTING DATA DROPS/WORK AREA OUTLETS. AS LONG AS THE TOTAL NEWLY INSTALLED DATA DROP COUNT DOES NOT VARY +/- 10% IDENTIFIED ON THESE DRAWINGS, THE CONTRACTOR'S SCOPE SHALL BE UNCHANGED.
7. NEW WORK AREA OUTLETS SHALL BE LOCATED IN EXISTING BOXES. WORK AREA OUTLETS SHOWN ON THIS SHEET MAY NOT BE IN THE EXACT LOCATION AS IDENTIFIED.
8. CONTRACTOR TO INCLUDE AN ALLOWANCE FOR 10% ADDITIONAL 2-PORTS CAT6A INFORMATION OUTLETS IN THEIR PROPOSAL FOR THIS SHEET. FUTURE INFORMATION OUTLET LOCATIONS WILL BE DETERMINED BY THE VA AT A LATER DATE.

TRUE NORTH
PLAN NORTH

Revisions:	Date:
35% SCHEMATIC DESIGN SUBMISSION	5.17.21
65% DESIGN DEVELOPMENT SUBMISSION	6.15.21
65% DESIGN DEVELOPMENT RESUBMISSION	8.25.21

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Drawing Title: BUILDING 144 BASEMENT PLAN - TECHNOLOGY - AREA A	Phase: FINAL BID DOCUMENTS	Project Title: EHRM INFRASTRUCTURE UPGRADES - MILWAUKEE, WI	Project Number: 695-21-700
			Building Number: 144
Approved:	Sprinklered: FULLY SPRINKLERED	Location: 5000 W. NATIONAL AVENUE MILWAUKEE, WI	Drawing Number: 144-TN100A
		Issue Date: SEPTEMBER 05, 2025 / Checked: PHINIE / Drawn: MAIBEJ	

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Graphic Scale: 1/8" = 1'-0"
Graphic Scale: .332" = 1'-0"
Graphic Scale: 1/4" = 1'-0"
Graphic Scale: .332" = 1'-0"
Graphic Scale: 1/2" = 1'-0"
Graphic Scale: 3/4" = 1'-0"
Graphic Scale: 1" = 1'-0"
Graphic Scale: 1 1/2" = 1'-0"

GENERAL NOTES:

1. REFER TO 1/TN400 FOR TECHNOLOGY ROUGH IN DETAIL.
2. ALL NETWORK CABLES ON THIS SHEET SHALL TERMINATE IN TR-144-G68.
3. CONTRACTOR TO PROVIDE NEW J-HOOK ROUTES FOR ALL NEW CABLING. J-HOOK SIZE AND QUANTITY TO BE PER MANUFACTURER RECOMMENDATIONS.
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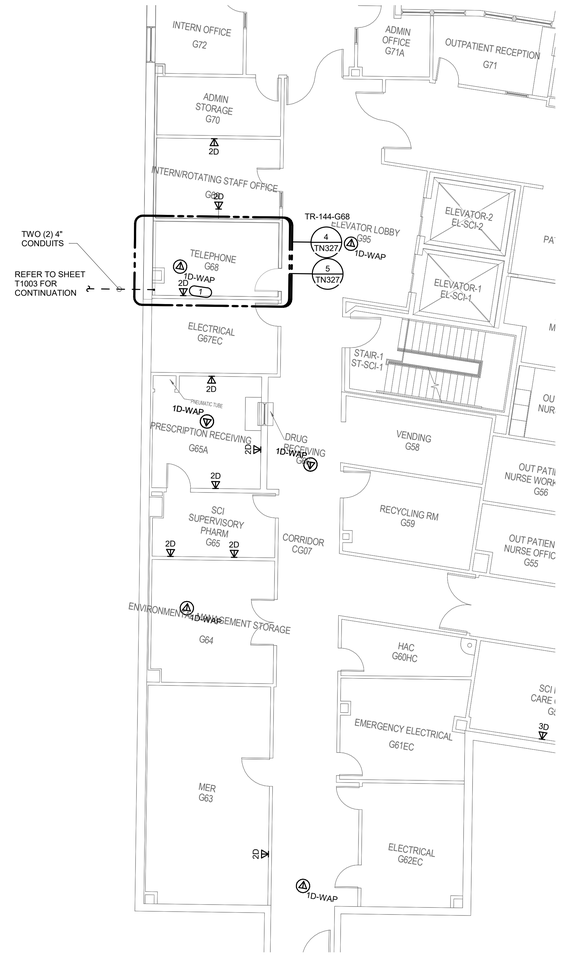
KEYNOTES: (#)

1. JCI PACS PANEL LOCATION. GC TO COORDINATE EXACT LOCATION AND HEIGHT WITH COR TO CONNECT NEW RACK/SWITCH WITHIN ROOM WITH CAT6A CABLE AS NECESSARY



1 **BUILDING 144 BASEMENT PLAN - TECHNOLOGY - AREA B**
1/8" = 1'-0"

TRUE NORTH
PLAN NORTH

Revisions:	Date:
35% SCHEMATIC DESIGN SUBMISSION	5.17.21
65% DESIGN DEVELOPMENT SUBMISSION	6.15.21
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VA U.S. Department of Veterans Affairs

Drawing Title: BUILDING 144 BASEMENT PLAN - TECHNOLOGY - AREA B

Approved:

Phase: FINAL BID DOCUMENTS

Sprinklered: FULLY SPRINKLERED

Project Title: EHRM INFRASTRUCTURE UPGRADES - MILWAUKEE, WI

Location: 5000 W. NATIONAL AVENUE MILWAUKEE, WI

Issue Date: SEPTEMBER 05, 2025 | Checked: PHINIE | Drawn: MAIBEJ

Project Number: 695-21-700

Building Number: 144

Drawing Number: 144-TN100B

VA FORM 08 - 6231

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GENERAL NOTES:

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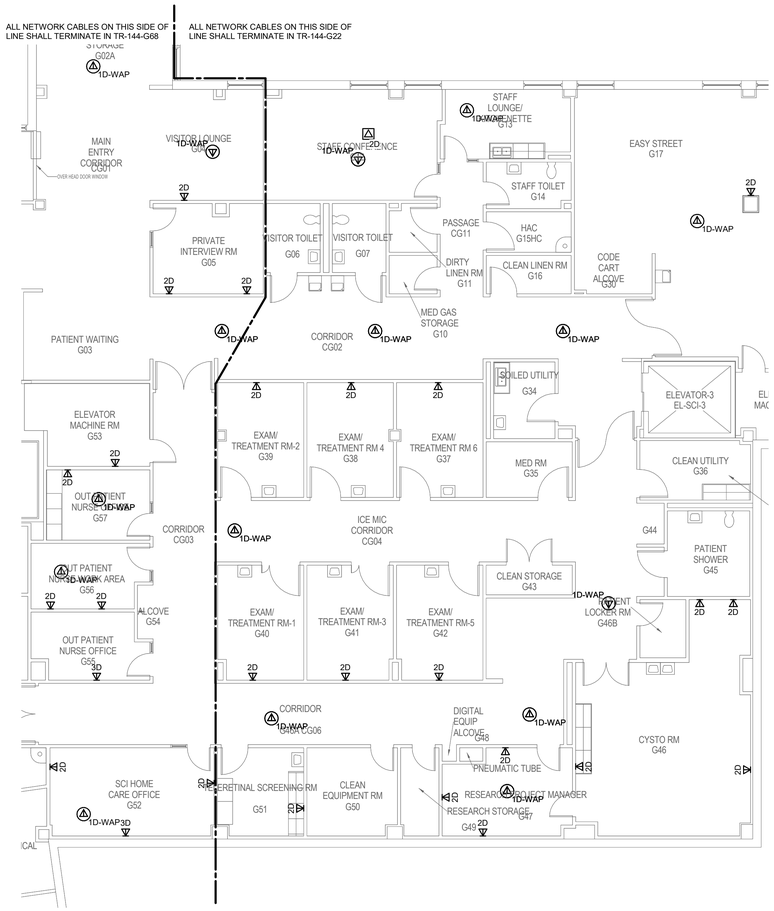

1 BUILDING 144 BASEMENT PLAN - TECHNOLOGY - AREA C

1/8" = 1'-0"

TRUE NORTH
PLAN NORTH

Revisions:	Date:
35% SCHEMATIC DESIGN SUBMISSION	5.17.21
65% DESIGN DEVELOPMENT SUBMISSION	6.15.21
65% DESIGN DEVELOPMENT RESUBMISSION	8.25.21

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VA U.S. Department of Veterans Affairs

Drawing Title: BUILDING 144 BASEMENT PLAN - TECHNOLOGY - AREA C	Phase: FINAL BID DOCUMENTS	Project Title: EHRM INFRASTRUCTURE UPGRADES - MILWAUKEE, WI		Project Number: 695-21-700
				Building Number: 144
Approved:	Sprinklered: FULLY SPRINKLERED	Location: 5000 W. NATIONAL AVENUE MILWAUKEE, WI		Drawing Number: 144-TN100C
		Issue Date: SEPTEMBER 05, 2025	Checked: PHINIE	Drawn: MAIBEJ

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GENERAL NOTES:

1. REFER TO 1/TN400 FOR TECHNOLOGY ROUGH IN DETAIL.
2. ALL NETWORK CABLES ON THIS SHEET SHALL TERMINATE IN TR-144-G22.
3. CONTRACTOR TO PROVIDE NEW J-HOOK ROUTES FOR ALL NEW CABLING. J-HOOK SIZE AND QUANTITY TO BE PER MANUFACTURER RECOMMENDATIONS.
4. REFER TO TN500-TN509 FOR RISER DIAGRAMS.
5. REFER TO SHEET TN402 FOR PENETRATION DETAILS.
6. THESE DRAWINGS MAKE THE BEST ATTEMPT TO IDENTIFY EXISTING DATA DROPS/WORK AREA OUTLETS. AS LONG AS THE TOTAL NEWLY INSTALLED DATA DROP COUNT DOES NOT VARY +/- 10% IDENTIFIED ON THESE DRAWINGS, THE CONTRACTOR'S SCOPE SHALL BE UNCHANGED.
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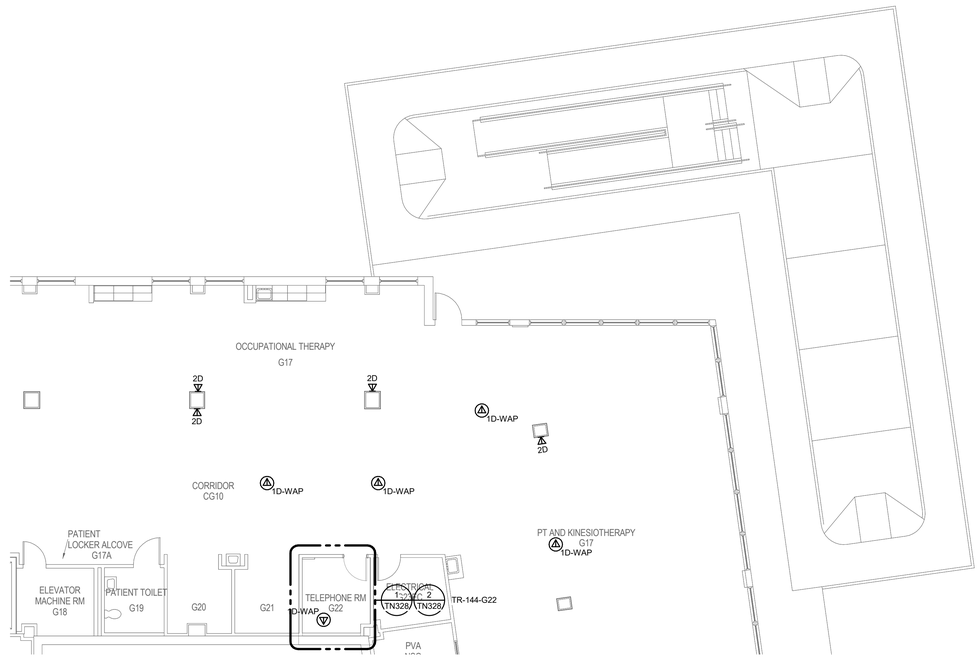

1 BUILDING 144 BASEMENT PLAN - TECHNOLOGY - AREA D

1/8" = 1'-0"

TRUE NORTH
PLAN NORTH

Revisions:	Date:
35% SCHEMATIC DESIGN SUBMISSION	5.17.21
65% DESIGN DEVELOPMENT SUBMISSION	6.15.21
65% DESIGN DEVELOPMENT RESUBMISSION	8.25.21

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Drawing Title: BUILDING 144 BASEMENT PLAN - TECHNOLOGY - AREA D	Phase: FINAL BID DOCUMENTS	Project Title: EHRM INFRASTRUCTURE UPGRADES - MILWAUKEE, WI	Project Number: 695-21-700
			Building Number: 144
Approved:	Sprinklered: FULLY SPRINKLERED	Location: 5000 W. NATIONAL AVENUE MILWAUKEE, WI	Drawing Number: 144-TN100D
		Issue Date: SEPTEMBER 05, 2025 / Checked: PHINIE / Drawn: MAIBEJ	

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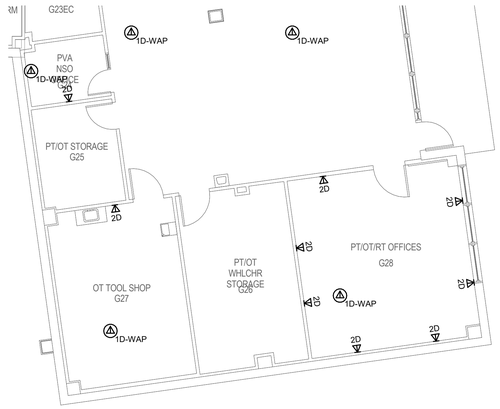
Graphic Scale: 1/16" = 1'-0"
Graphic Scale: 1/8" = 1'-0"
Graphic Scale: 3/32" = 1'-0"
Graphic Scale: 1/4" = 1'-0"
Graphic Scale: 3/8" = 1'-0"
Graphic Scale: 1/2" = 1'-0"
Graphic Scale: 3/4" = 1'-0"
Graphic Scale: 1" = 1'-0"
Graphic Scale: 1 1/2" = 1'-0"



GENERAL NOTES:

1. REFER TO 1/TN400 FOR TECHNOLOGY ROUGH IN DETAIL.
2. ALL NETWORK CABLES ON THIS SHEET SHALL TERMINATE IN TR-144-G22.
3. CONTRACTOR TO PROVIDE NEW J-HOOK ROUTES FOR ALL NEW CABLING. J-HOOK SIZE AND QUANTITY TO BE PER MANUFACTURER RECOMMENDATIONS.
4. REFER TO TN500-TN509 FOR RISER DIAGRAMS.
5. REFER TO SHEET TN402 FOR PENETRATION DETAILS.
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1 BUILDING 144 BASEMENT PLAN - TECHNOLOGY - AREA E

1/8" = 1'-0"

TRUE NORTH
PLAN NORTH

Revisions:	Date:
35% SCHEMATIC DESIGN SUBMISSION	5.17.21
65% DESIGN DEVELOPMENT SUBMISSION	6.15.21
65% DESIGN DEVELOPMENT RESUBMISSION	8.25.21

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Drawing Title: BUILDING 144 BASEMENT PLAN - TECHNOLOGY - AREA E	Phase: FINAL BID DOCUMENTS	Project Title: EHRM INFRASTRUCTURE UPGRADES - MILWAUKEE, WI	Project Number: 695-21-700
			Building Number: 144
Approved:	Sprinklered: FULLY SPRINKLERED	Location: 5000 W. NATIONAL AVENUE MILWAUKEE, WI	Drawing Number: 144-TN100E
		Issue Date: SEPTEMBER 05, 2025 / Checked: PHINIE / Drawn: MAIBEJ	

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GENERAL NOTES:

1. REFER TO 1/TN400 FOR TECHNOLOGY ROUGH IN DETAIL.
2. ALL NETWORK CABLES ON THIS SHEET SHALL TERMINATE IN TR-144-G68.
3. CONTRACTOR TO PROVIDE NEW J-HOOK ROUTES FOR ALL NEW CABLING. J-HOOK SIZE AND QUANTITY TO BE PER MANUFACTURER RECOMMENDATIONS.
4. REFER TO TN500-TN509 FOR RISER DIAGRAMS.
5. REFER TO SHEET TN402 FOR PENETRATION DETAILS.
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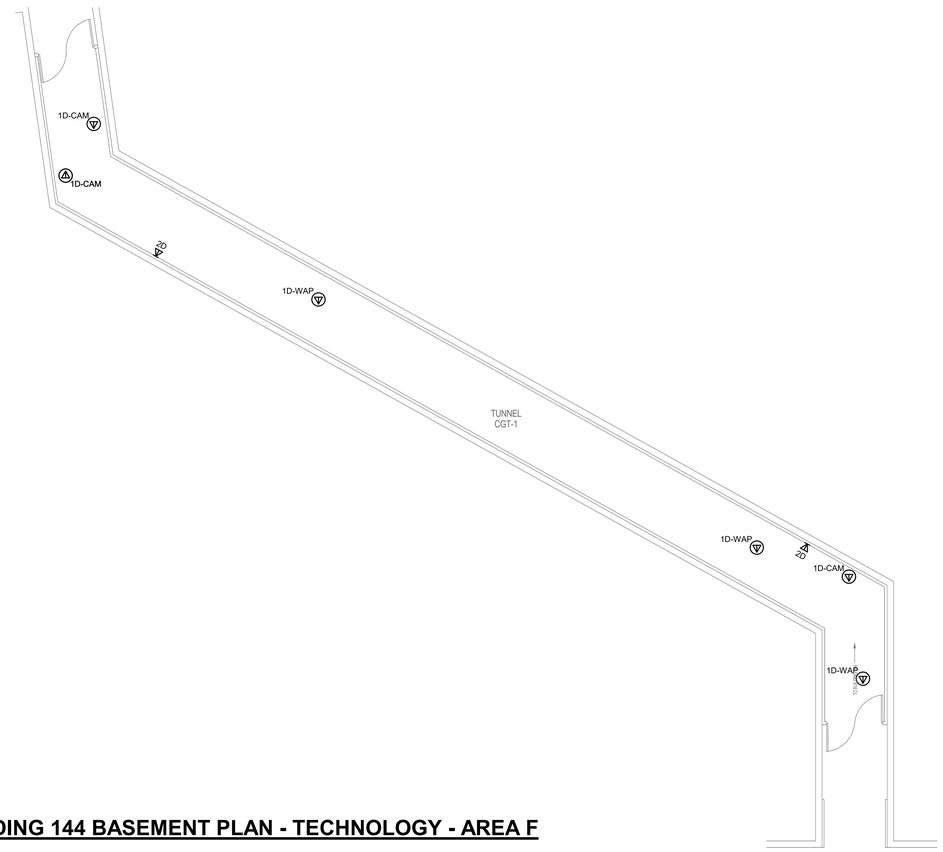

1 BUILDING 144 BASEMENT PLAN - TECHNOLOGY - AREA F

1/8" = 1'-0"

TRUE NORTH
PLAN NORTH

Revisions:	Date:
35% SCHEMATIC DESIGN SUBMISSION	5.17.21
65% DESIGN DEVELOPMENT SUBMISSION	6.15.21
65% DESIGN DEVELOPMENT RESUBMISSION	8.25.21

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Drawing Title: BUILDING 144 BASEMENT PLAN - TECHNOLOGY - AREA F

Approved:

Phase: FINAL BID DOCUMENTS

Sprinklered: FULLY SPRINKLERED

Project Title: EHRM INFRASTRUCTURE UPGRADES - MILWAUKEE, WI

Location: 5000 W. NATIONAL AVENUE MILWAUKEE, WI

Issue Date: SEPTEMBER 05, 2025

Checked: PHINIE

Drawn: MAIBEJ

Project Number: 695-21-700

Building Number: 144

Drawing Number: 144-TN100F

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GENERAL NOTES:

1. REFER TO INDIVIDUAL AREA BUILDING DEMO FLOOR PLANS FOR ADDITIONAL INFORMATION.
2. THESE DRAWINGS MAKE THE BEST ATTEMPT TO IDENTIFY EXISTING DATA DROPS/WORK AREA OUTLETS. AS LONG AS THE TOTAL NEWLY INSTALLED DATA DROP COUNT DOES NOT VARY +/- 10% IDENTIFIED ON THESE DRAWINGS, THE CONTRACTOR'S SCOPE SHALL BE UNCHANGED.
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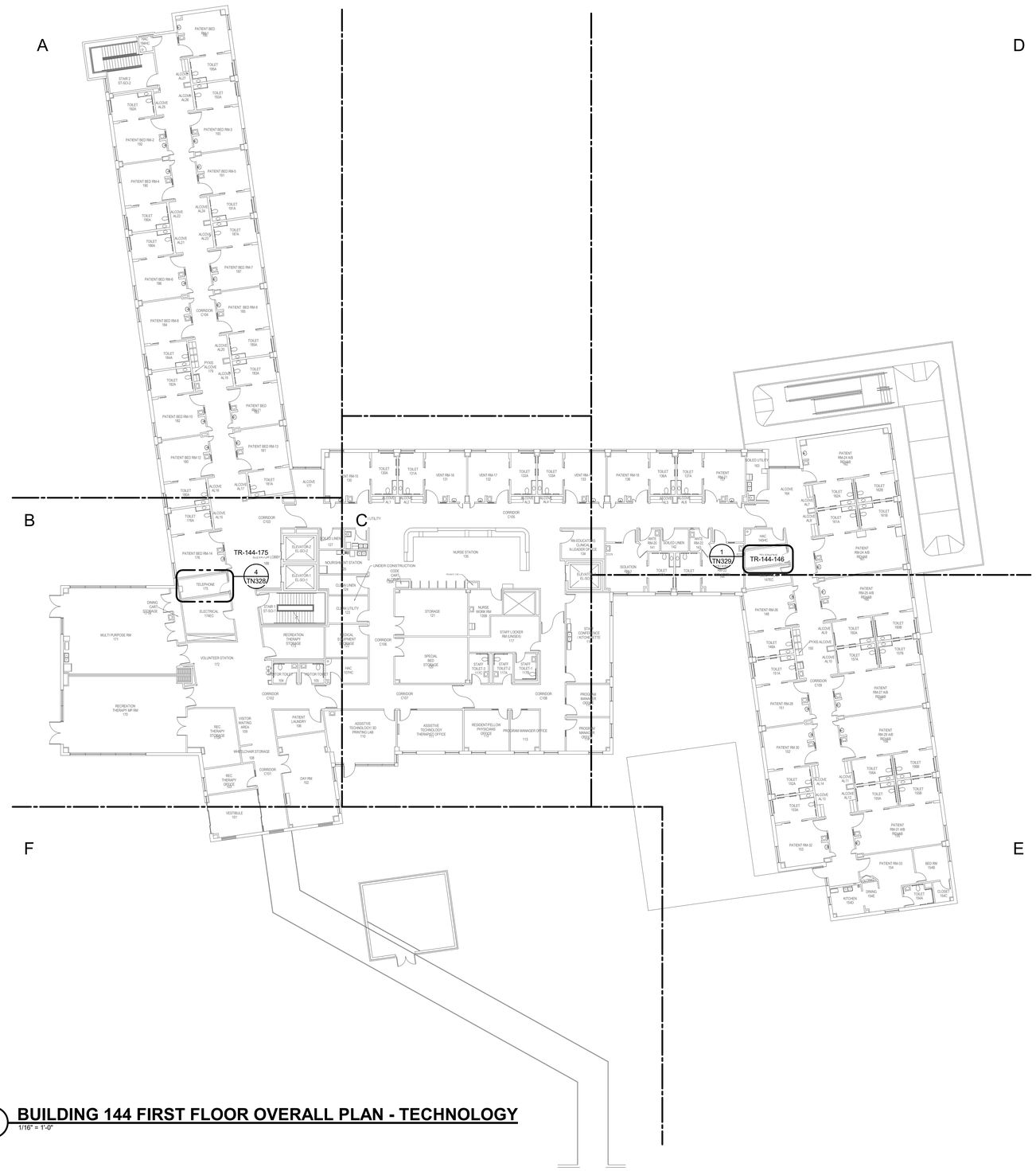

1 BUILDING 144 FIRST FLOOR OVERALL PLAN - TECHNOLOGY

1/16" = 1'-0"

Revisions:	Date:
35% SCHEMATIC DESIGN SUBMISSION	5.17.21
65% DESIGN DEVELOPMENT SUBMISSION	6.15.21
65% DESIGN DEVELOPMENT RESUBMISSION	8.25.21

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Drawing Title: BUILDING 144 FIRST FLOOR OVERALL PLAN - TECHNOLOGY	Phase: FINAL BID DOCUMENTS	Project Title: EHRM INFRASTRUCTURE UPGRADES - MILWAUKEE, WI	Project Number: 695-21-700
			Building Number: 144
Approved:	Sprinklered: FULLY SPRINKLERED	Location: 5000 W. NATIONAL AVENUE MILWAUKEE, WI	Drawing Number: 144-TN101
		Issue Date: SEPTEMBER 05, 2025 / Checked: PHINIE / Drawn: MAIBEJ	

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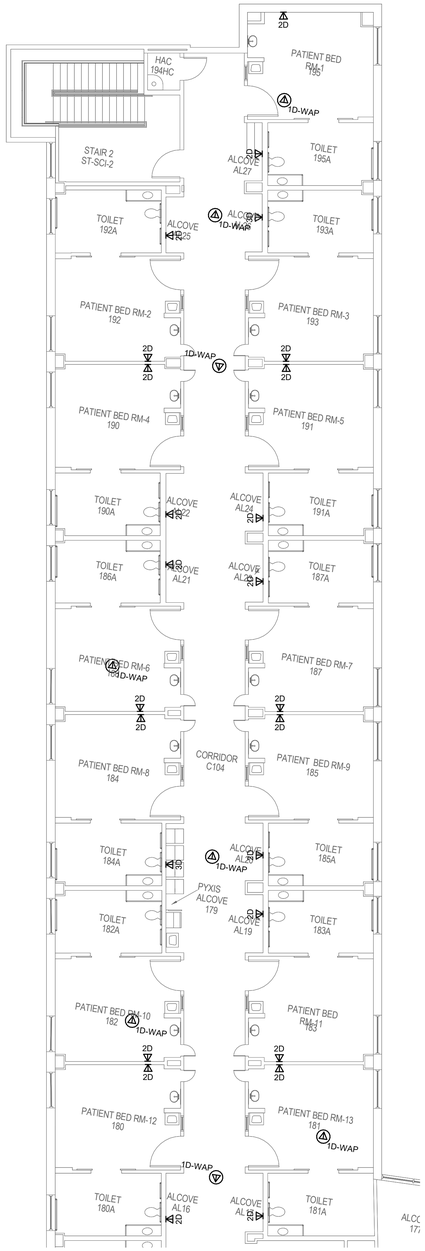

1 BUILDING 144 FIRST FLOOR PLAN - TECHNOLOGY - AREA A

1/8" = 1'-0"

GENERAL NOTES:

1. REFER TO 1/TN400 FOR TECHNOLOGY ROUGH IN DETAIL.
2. ALL NETWORK CABLES ON THIS SHEET SHALL TERMINATE IN TR-144-175.
3. CONTRACTOR TO PROVIDE NEW J-HOOK ROUTES FOR ALL NEW CABLING. J-HOOK SIZE AND QUANTITY TO BE PER MANUFACTURER RECOMMENDATIONS.
4. REFER TO TN500-TN509 FOR RISER DIAGRAMS.
5. REFER TO SHEET TN402 FOR PENETRATION DETAILS.
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TRUE NORTH
PLAN NORTH

Revisions:	Date:
35% SCHEMATIC DESIGN SUBMISSION	5.17.21
65% DESIGN DEVELOPMENT SUBMISSION	6.15.21
65% DESIGN DEVELOPMENT RESUBMISSION	8.25.21

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Drawing Title: BUILDING 144 FIRST FLOOR PLAN - TECHNOLOGY - AREA A

Approved:

Phase: FINAL BID DOCUMENTS

Sprinklered: FULLY SPRINKLERED

Project Title: EHRM INFRASTRUCTURE UPGRADES - MILWAUKEE, WI

Location: 5000 W. NATIONAL AVENUE MILWAUKEE, WI

Issue Date: SEPTEMBER 05, 2025 | Checked: PHINIE | Drawn: MAIBEJ

Project Number: 695-21-700

Building Number: 144

Drawing Number: 144-TN101A

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GENERAL NOTES:

1. REFER TO 1/TN400 FOR TECHNOLOGY ROUGH IN DETAIL.
2. ALL NETWORK CABLES ON THIS SHEET SHALL TERMINATE IN TR-144-175.
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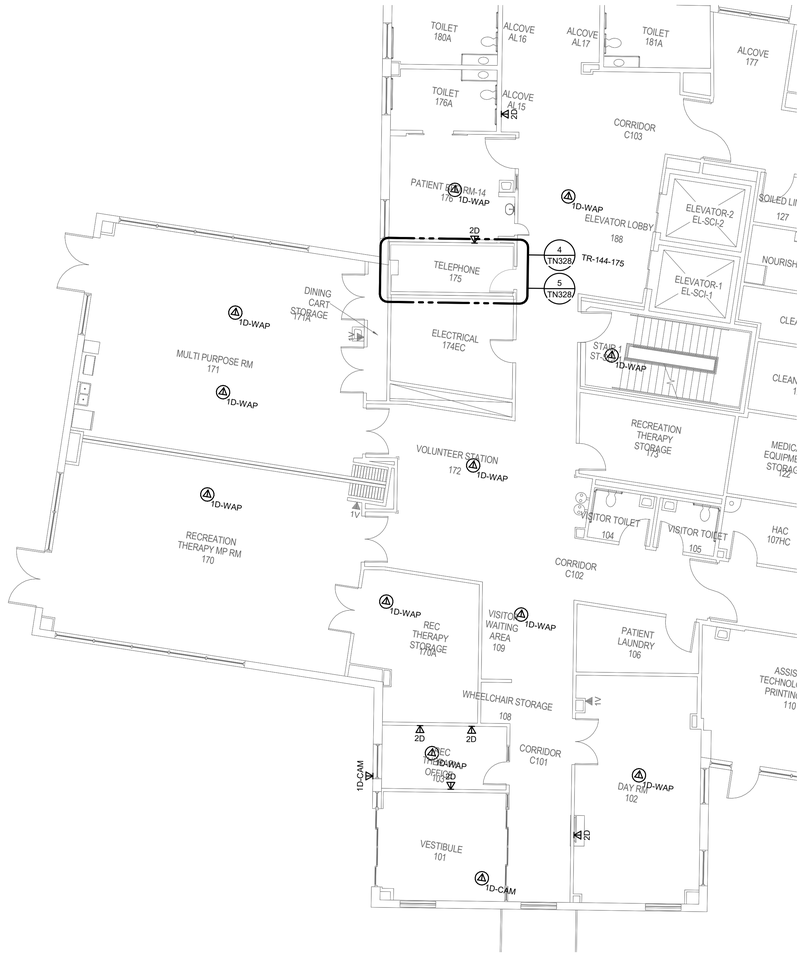

1 **BUILDING 144 FIRST FLOOR PLAN - TECHNOLOGY - AREA B**
1/8" = 1'-0"

TRUE NORTH
PLAN NORTH

35% SCHEMATIC DESIGN SUBMISSION	5.17.21
65% DESIGN DEVELOPMENT SUBMISSION	6.15.21
65% DESIGN DEVELOPMENT RESUBMISSION	8.25.21
Revisions:	Date:

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PROJECT #18004375.03

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VA U.S. Department of Veterans Affairs

Drawing Title: BUILDING 144 FIRST FLOOR PLAN - TECHNOLOGY - AREA B

Approved:

Phase: FINAL BID DOCUMENTS

Sprinklered: FULLY SPRINKLERED

Project Title: EHRM INFRASTRUCTURE UPGRADES - MILWAUKEE, WI

Location: 5000 W. NATIONAL AVENUE MILWAUKEE, WI

Issue Date: SEPTEMBER 05, 2025 | Checked: PHINIE | Drawn: MAIBEJ

Project Number: 695-21-700

Building Number: 144

Drawing Number: 144-TN101B

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GENERAL NOTES:

1. REFER TO 1/TN400 FOR TECHNOLOGY ROUGH IN DETAIL.
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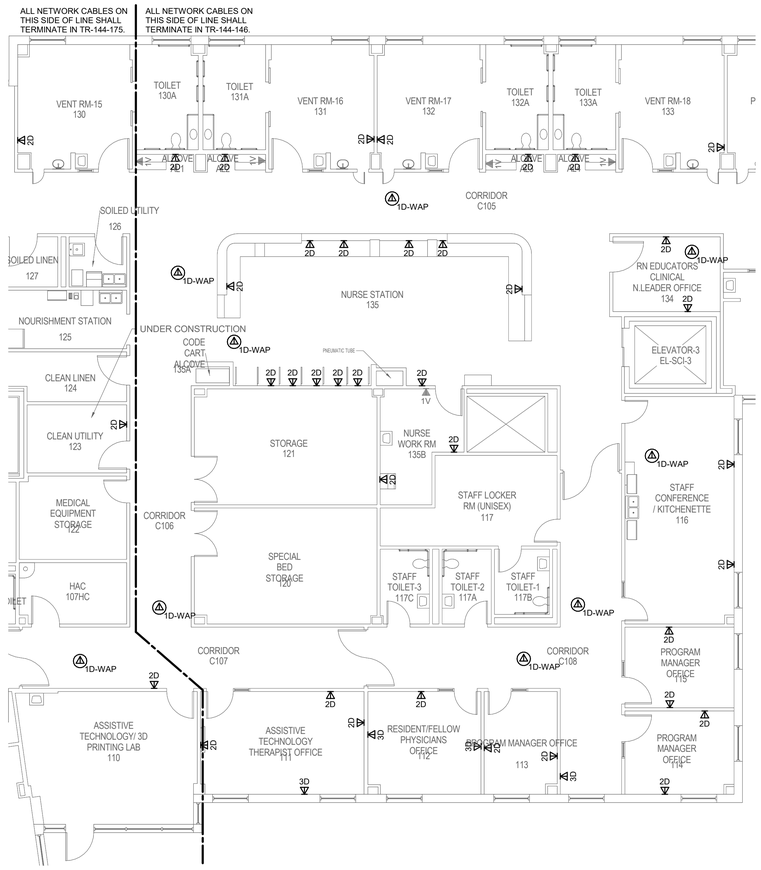

1 BUILDING 144 FIRST FLOOR PLAN - TECHNOLOGY - AREA C

1/8" = 1'-0"

TRUE NORTH
PLAN NORTH

35% SCHEMATIC DESIGN SUBMISSION	5.17.21
65% DESIGN DEVELOPMENT SUBMISSION	6.15.21
65% DESIGN DEVELOPMENT RESUBMISSION	8.25.21
Revisions:	Date:

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Drawing Title: BUILDING 144 FIRST FLOOR PLAN - TECHNOLOGY - AREA C	Phase: FINAL BID DOCUMENTS	Project Title: EHRM INFRASTRUCTURE UPGRADES - MILWAUKEE, WI	Project Number: 695-21-700
			Building Number: 144
Approved:	Sprinklered: FULLY SPRINKLERED	Location: 5000 W. NATIONAL AVENUE MILWAUKEE, WI	Drawing Number: 144-TN101C
		Issue Date: SEPTEMBER 05, 2025 / Checked: PHINIE / Drawn: MAIBEJ	

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GENERAL NOTES:

1. REFER TO 1/TN400 FOR TECHNOLOGY ROUGH IN DETAIL.
2. ALL NETWORK CABLES ON THIS SHEET SHALL TERMINATE IN TR-144-146.
3. CONTRACTOR TO PROVIDE NEW J-HOOK ROUTES FOR ALL NEW CABLING. J-HOOK SIZE AND QUANTITY TO BE PER MANUFACTURER RECOMMENDATIONS.
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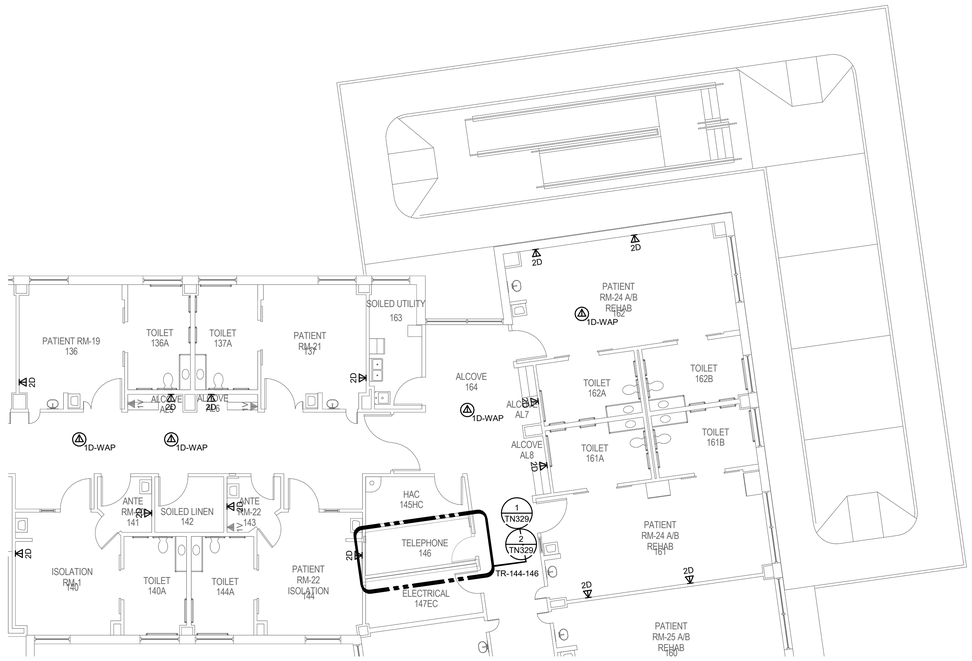

1 BUILDING 144 FIRST FLOOR PLAN - TECHNOLOGY - AREA D

1/8" = 1'-0"

TRUE NORTH
PLAN NORTH

35% SCHEMATIC DESIGN SUBMISSION	5.17.21
65% DESIGN DEVELOPMENT SUBMISSION	6.15.21
65% DESIGN DEVELOPMENT RESUBMISSION	8.25.21
Revisions:	Date:

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PROJECT #180043375.03

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Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: BUILDING 144 FIRST FLOOR PLAN - TECHNOLOGY - AREA D

Approved:

Phase: FINAL BID DOCUMENTS

Sprinklered: FULLY SPRINKLERED

Project Title: EHRM INFRASTRUCTURE UPGRADES - MILWAUKEE, WI

Location: 5000 W. NATIONAL AVENUE MILWAUKEE, WI

Issue Date: SEPTEMBER 05, 2025 | Checked: PHINIE | Drawn: MAIBEJ

Project Number: 695-21-700

Building Number: 144

Drawing Number: 144-TN101D

VA FORM 08 - 6231

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Graphic Scale: 1/16" = 1'-0"
Graphic Scale: 1/8" = 1'-0"
Graphic Scale: 3/32" = 1'-0"
Graphic Scale: 1/4" = 1'-0"
Graphic Scale: 3/8" = 1'-0"
Graphic Scale: 1/2" = 1'-0"
Graphic Scale: 3/4" = 1'-0"
Graphic Scale: 1" = 1'-0"
Graphic Scale: 1 1/2" = 1'-0"

GENERAL NOTES:

1. REFER TO 1/TN400 FOR TECHNOLOGY ROUGH IN DETAIL.
2. ALL NETWORK CABLES ON THIS SHEET SHALL TERMINATE IN TR-144-146.
3. CONTRACTOR TO PROVIDE NEW J-HOOK ROUTES FOR ALL NEW CABLING. J-HOOK SIZE AND QUANTITY TO BE PER MANUFACTURER RECOMMENDATIONS.
4. REFER TO TN500-TN509 FOR RISER DIAGRAMS.
5. REFER TO SHEET TN402 FOR PENETRATION DETAILS.
6. THESE DRAWINGS MAKE THE BEST ATTEMPT TO IDENTIFY EXISTING DATA DROPS/WORK AREA OUTLETS. AS LONG AS THE TOTAL NEWLY INSTALLED DATA DROP COUNT DOES NOT VARY +/- 10% IDENTIFIED ON THESE DRAWINGS, THE CONTRACTOR'S SCOPE SHALL BE UNCHANGED.
7. NEW WORK AREA OUTLETS SHALL BE LOCATED IN EXISTING BOXES. WORK AREA OUTLETS SHOWN ON THIS SHEET MAY NOT BE IN THE EXACT LOCATION AS IDENTIFIED.
8. CONTRACTOR TO INCLUDE AN ALLOWANCE FOR 10% ADDITIONAL 2-PORTS CAT6A INFORMATION OUTLETS IN THEIR PROPOSAL FOR THIS SHEET. FUTURE INFORMATION OUTLET LOCATIONS WILL BE DETERMINED BY THE VA AT A LATER DATE.

1 **BUILDING 144 FIRST FLOOR PLAN - TECHNOLOGY - AREA E**
1/8" = 1'-0"

TRUE NORTH
PLAN NORTH

35% SCHEMATIC DESIGN SUBMISSION	5.17.21
65% DESIGN DEVELOPMENT SUBMISSION	6.15.21
65% DESIGN DEVELOPMENT RESUBMISSION	8.25.21
Revisions:	Date:

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Drawing Title: BUILDING 144 FIRST FLOOR PLAN - TECHNOLOGY - AREA E	Phase: FINAL BID DOCUMENTS	Project Title: EHRM INFRASTRUCTURE UPGRADES - MILWAUKEE, WI	Project Number: 695-21-700
			Building Number: 144
Approved:	Sprinklered: FULLY SPRINKLERED	Location: 5000 W. NATIONAL AVENUE MILWAUKEE, WI	Drawing Number: 144-TN101E
		Issue Date: SEPTEMBER 05, 2025 / Checked: PHINIE / Drawn: MAIBEJ	

VA FORM 08 - 6231

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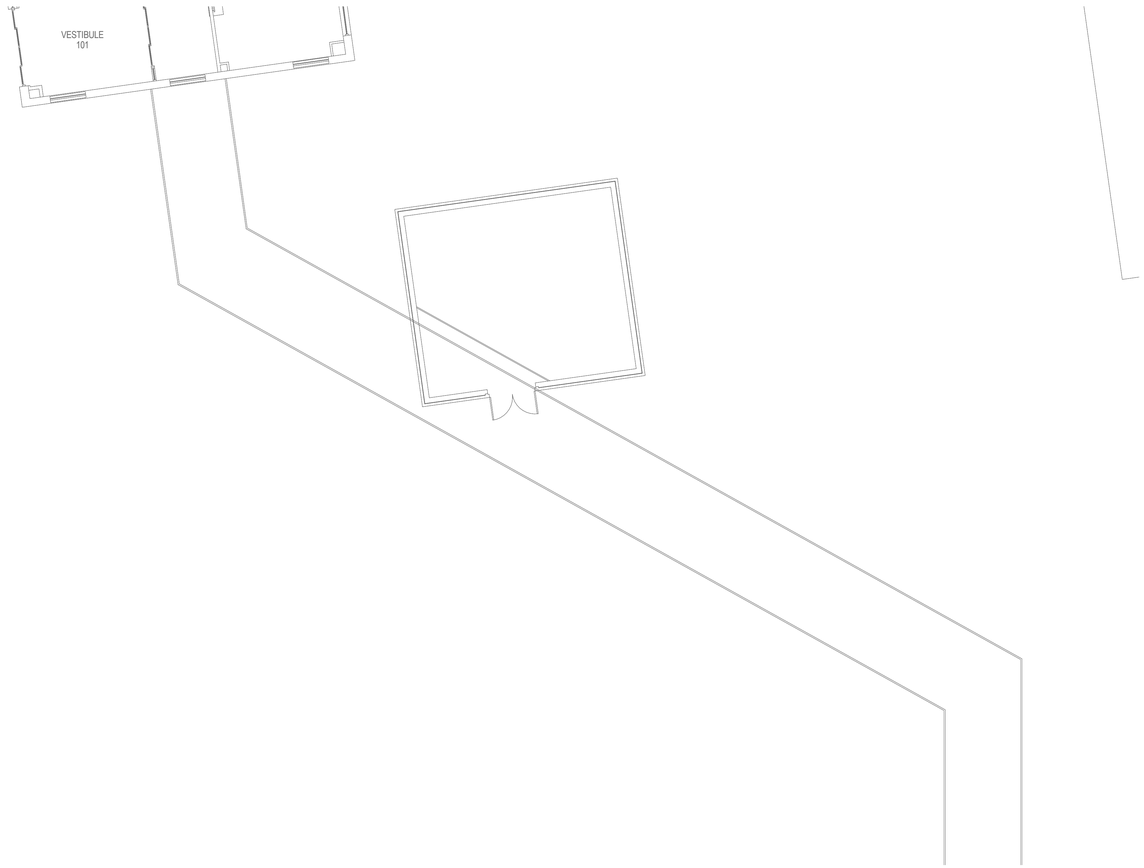
GENERAL NOTES:

1. NO WORK ON THIS SHEET, SHOWN FOR REFERENCE ONLY.



1 **BUILDING 144 FIRST FLOOR PLAN - TECHNOLOGY - AREA F**
1/8" = 1'-0"

TRUE NORTH
PLAN NORTH

Revisions:	Date:
35% SCHEMATIC DESIGN SUBMISSION	5.17.21
65% DESIGN DEVELOPMENT SUBMISSION	6.15.21
65% DESIGN DEVELOPMENT RESUBMISSION	8.25.21

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BICSI ID # 106098
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VA U.S. Department of Veterans Affairs

Drawing Title
BUILDING 144 FIRST FLOOR PLAN - TECHNOLOGY - AREA F

Approved:

Phase
FINAL BID DOCUMENTS

Sprinklered
FULLY SPRINKLERED

Project Title
EHRM INFRASTRUCTURE UPGRADES - MILWAUKEE, WI

Location
5000 W. NATIONAL AVENUE MILWAUKEE, WI

Issue Date SEPTEMBER 05, 2025
Checked PHINIE
Drawn MAIBEJ

Project Number 695-21-700
Building Number 144
Drawing Number 144-TN101F

VA FORM 08 - 6231

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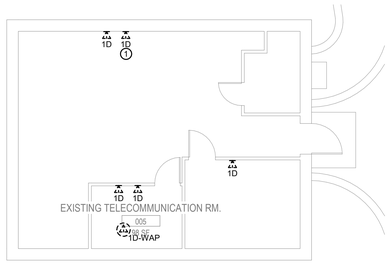
9/3/2024 4:05:38 PM

SHEET NOTES:

1. REMOVE ALL NETWORK CABLING TO POINTS OF TERMINATION IN ASSOCIATED TELECOM ROOMS. REFER TO FLOOR PLANS AND SHEET T1001 FOR TR ROOM LOCATIONS.
2. REFER TO ARCHITECTURAL PHASING PLANS FOR WHEN EXISTING CABLING IS ALLOWED TO BE DEMOLISHED.
3. FOR ALL EXISTING WIRELESS ACCESS POINTS AND SURVEILLANCE CAMERAS, DEVICES SHALL REMAIN. SCOPE OF WORK INCLUDES CABLE REPLACEMENT ONLY. COORDINATE WITH COR FOR ANY DOWNTIME OF DEVICES.
4. EXISTING LOCATIONS OF WORK AREA OUTLETS SHOWN ON THIS SHEET MAY NOT NECESSARILY BE IN THE EXACT LOCATION AS IDENTIFIED.

KEYNOTES: (#)

1. EXISTING BACKBONE ENTRY POINT, PROTECT IN PLACE. DEMOLISH EXISTING FIBER OPTIC CABLE TO POINTS OF TERMINATION AFTER REDUNDANT PATH IS INSTALLED AND OPERATIONAL. REFER TO PHASING PLAN FOR ADDITIONAL INFORMATION. EXISTING COPPER CABLE TO REMAIN, PROTECT IN PLACE.



1 BUILDING 146 BASEMENT DEMOLITION PLAN - TECHNOLOGY

1/8" = 1'-0"

TRUE NORTH
PLAN NORTH

Revisions:	Date:
35% SCHEMATIC DESIGN SUBMISSION	5.17.21
65% DESIGN DEVELOPMENT SUBMISSION	6.15.21
65% DESIGN DEVELOPMENT RESUBMISSION	8.25.21

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Drawing Title BUILDING 146 BASEMENT DEMO PLAN - TECHNOLOGY	**Phase** FINAL BID DOCUMENTS	**Project Title** EHRM INFRASTRUCTURE UPGRADES - MILWAUKEE, WI	**Project Number** 695-21-700
Approved:	**Sprinklered** FULLY SPRINKLERED	**Location** 5000 W. NATIONAL AVENUE MILWAUKEE, WI	**Building Number** 146
		Issue Date SEPTEMBER 05, 2025 / **Checked** PHINIE / **Drawn** MAIBEJ	**Drawing Number** 146-TD100

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Graphic Scale: 3/32" = 1'-0"
Graphic Scale: 1/8" = 1'-0"
Graphic Scale: 1/4" = 1'-0"
Graphic Scale: 3/8" = 1'-0"
Graphic Scale: 1/2" = 1'-0"
Graphic Scale: 3/4" = 1'-0"
Graphic Scale: 1" = 1'-0"
Graphic Scale: 1 1/2" = 1'-0"

SHEET NOTES:

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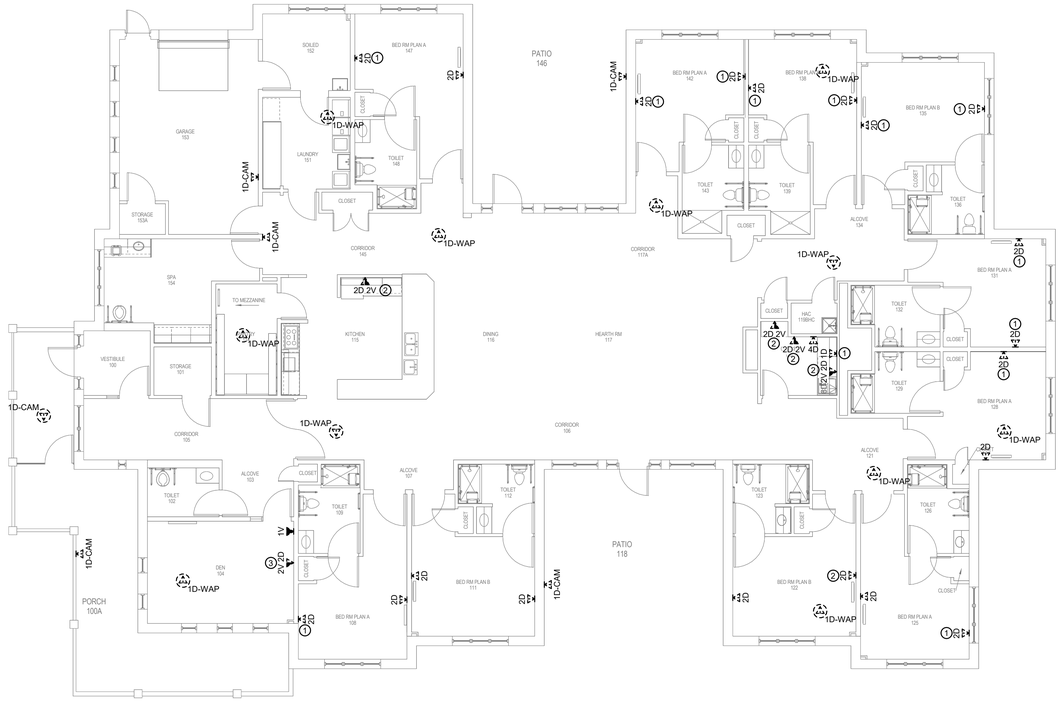

1 BUILDING 146 FIRST FLOOR DEMOLITION PLAN - TECHNOLOGY

1/8" = 1'-0"

TRUE NORTH
PLAN NORTH

Revisions:	Date:
35% SCHEMATIC DESIGN SUBMISSION	5.17.21
65% DESIGN DEVELOPMENT SUBMISSION	6.15.21
65% DESIGN DEVELOPMENT RESUBMISSION	8.25.21

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Drawing Title BUILDING 146 FIRST FLOOR DEMO PLAN - TECHNOLOGY	**Phase** FINAL BID DOCUMENTS	**Project Title** EHRM INFRASTRUCTURE UPGRADES - MILWAUKEE, WI	**Project Number** 695-21-700
			Building Number 146
Approved:	**Sprinklered** FULLY SPRINKLERED	**Location** 5000 W. NATIONAL AVENUE MILWAUKEE, WI	**Drawing Number** 146-TD101
		Issue Date SEPTEMBER 05, 2025 / **Checked** PHINIE / **Drawn** MAIBEJ	

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GENERAL NOTES:

1. REFER TO 1/TN400 FOR TECHNOLOGY ROUGH IN DETAIL.
2. ALL NETWORK CABLES ON THIS SHEET SHALL TERMINATE IN TR-146-005.
3. CONTRACTOR TO PROVIDE NEW J-HOOK ROUTES FOR ALL NEW CABLING. J-HOOK SIZE AND QUANTITY TO BE PER MANUFACTURER RECOMMENDATIONS.
4. REFER TO TN500-TN509 FOR RISER DIAGRAMS.
5. REFER TO SHEET TN402 FOR PENETRATION DETAILS.
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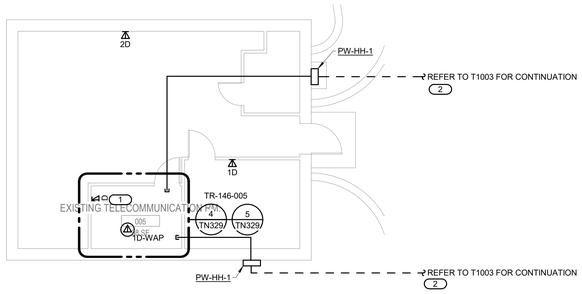
KEYNOTES: (#)

1. JCI PACS PANEL LOCATION. GC TO COORDINATE EXACT LOCATION AND HEIGHT WITH COR TO CONNECT TO BUILDING 146 TR WITH CAT6A CABLE AS NECESSARY.
2. TWO (2) 4" CONDUITS TO BACKBONE PATH.



1 **BUILDING 146 BASEMENT PLAN - TECHNOLOGY**
1/8" = 1'-0"

TRUE NORTH
PLAN NORTH

Revisions:	Date:
35% SCHEMATIC DESIGN SUBMISSION	5.17.21
65% DESIGN DEVELOPMENT SUBMISSION	6.15.21
65% DESIGN DEVELOPMENT RESUBMISSION	8.25.21

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VA U.S. Department of Veterans Affairs

Drawing Title BUILDING 146 BASEMENT PLAN - TECHNOLOGY	**Phase** FINAL BID DOCUMENTS	**Project Title** EHRM INFRASTRUCTURE UPGRADES - MILWAUKEE, WI	**Project Number** 695-21-700
			Building Number 146
Approved:	**Sprinklered** FULLY SPRINKLERED	**Location** 5000 W. NATIONAL AVENUE MILWAUKEE, WI	**Drawing Number** 146-TN100
		Issue Date SEPTEMBER 05, 2025 / **Checked** PHINIE / **Drawn** MAIBEJ	

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GENERAL NOTES:

1. REFER TO 1/TN400 FOR TECHNOLOGY ROUGH IN DETAIL.
2. ALL NETWORK CABLES ON THIS SHEET SHALL TERMINATE IN TR-146-005.
3. CONTRACTOR TO PROVIDE NEW J-HOOK ROUTES FOR ALL NEW CABLING. J-HOOK SIZE AND QUANTITY TO BE PER MANUFACTURER RECOMMENDATIONS.
4. REFER TO TN500-TN509 FOR RISER DIAGRAMS.
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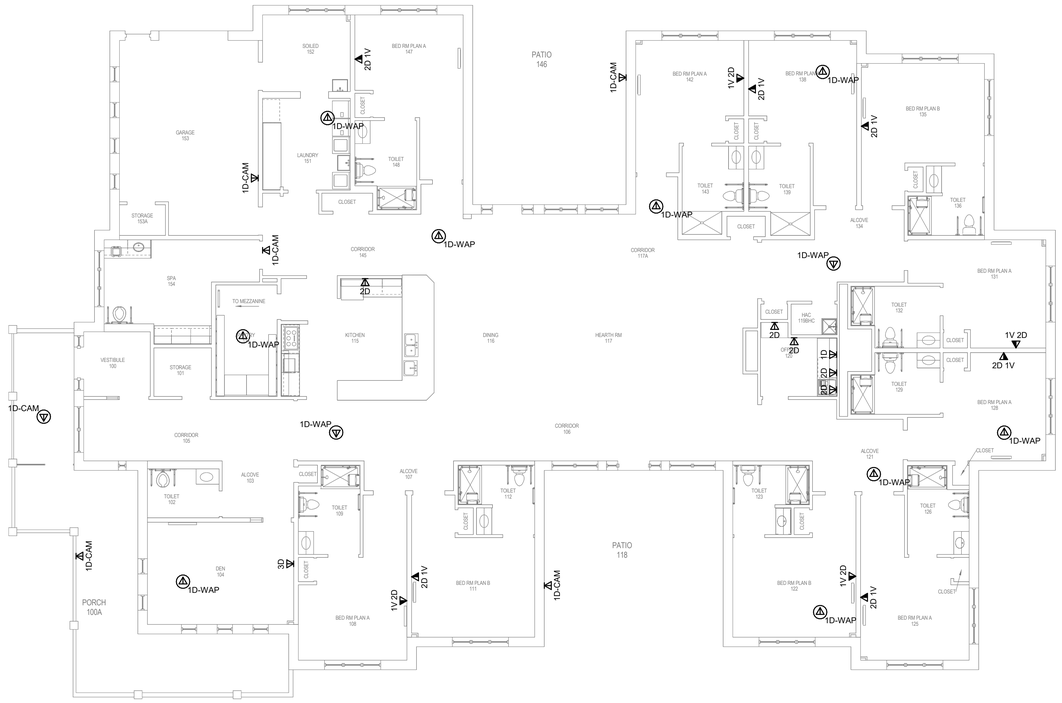

1 BUILDING 146 FIRST FLOOR PLAN - TECHNOLOGY

1/8" = 1'-0"

TRUE NORTH
PLAN NORTH

35% SCHEMATIC DESIGN SUBMISSION	5.17.21
65% DESIGN DEVELOPMENT SUBMISSION	6.15.21
65% DESIGN DEVELOPMENT RESUBMISSION	8.25.21
Revisions:	Date:

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Drawing Title: BUILDING 146 FIRST FLOOR PLAN - TECHNOLOGY

Approved:

Phase: FINAL BID DOCUMENTS

Sprinklered: FULLY SPRINKLERED

Project Title: EHRM INFRASTRUCTURE UPGRADES - MILWAUKEE, WI

Location: 5000 W. NATIONAL AVENUE MILWAUKEE, WI

Issue Date: SEPTEMBER 05, 2025 | Checked: PHINIE | Drawn: MAIBEJ

Project Number: 695-21-700

Building Number: 146

Drawing Number: 146-TN101

VA FORM 08 - 6231

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SHEET NOTES:

1. REMOVE ALL NETWORK CABLING TO POINTS OF TERMINATION IN ASSOCIATED TELECOM ROOMS. REFER TO FLOOR PLANS AND SHEET T1001 FOR TR ROOM LOCATIONS.
2. REFER TO ARCHITECTURAL PHASING PLANS FOR WHEN EXISTING CABLING IS ALLOWED TO BE DEMOLISHED.
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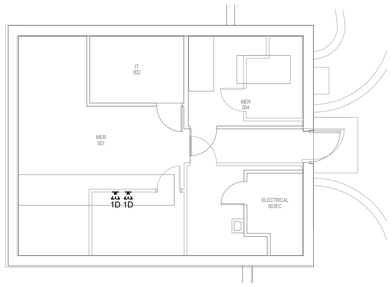

1 **BUILDING 147 BASEMENT DEMOLITION PLAN - TECHNOLOGY**
1/8" = 1'-0"

TRUE NORTH
PLAN NORTH

35% SCHEMATIC DESIGN SUBMISSION	5.17.21
65% DESIGN DEVELOPMENT SUBMISSION	6.15.21
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Revisions:	Date:

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VA U.S. Department of Veterans Affairs

Drawing Title: BUILDING 147 BASEMENT DEMO PLAN - TECHNOLOGY	Phase: FINAL BID DOCUMENTS	Project Title: EHRM INFRASTRUCTURE UPGRADES - MILWAUKEE, WI		Project Number: 695-21-700
Approved:	Sprinklered: FULLY SPRINKLERED	Location: 5000 W. NATIONAL AVENUE MILWAUKEE, WI		Building Number: 147
		Issue Date: SEPTEMBER 05, 2025	Checked: PHINIE / Drawn: MAIBEJ	Drawing Number: 147-TD100

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Graphic Scale: 16' = 1'-0"
Graphic Scale: 2' = 1'-0"
Graphic Scale: 4' = 1'-0"
Graphic Scale: 4' = 1'-0"
Graphic Scale: 4' = 1'-0"
Graphic Scale: 4' = 1'-0"
Graphic Scale: 2' = 1'-0"
Graphic Scale: 2' = 1'-0"
Graphic Scale: 1' 6" = 1'-0"

SHEET NOTES:

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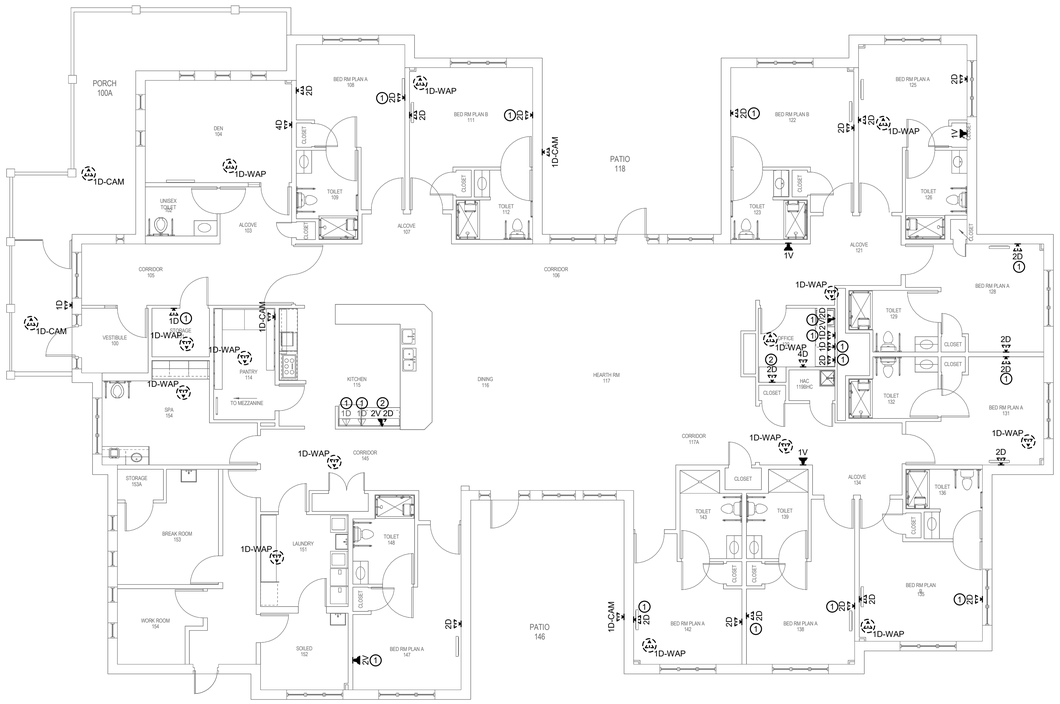

1 BUILDING 147 FIRST FLOOR DEMOLITION PLAN - TECHNOLOGY

1/8" = 1'-0"

TRUE NORTH
PLAN NORTH

Revisions:	Date:
35% SCHEMATIC DESIGN SUBMISSION	5.17.21
65% DESIGN DEVELOPMENT SUBMISSION	6.15.21
65% DESIGN DEVELOPMENT RESUBMISSION	8.25.21

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DAVID LARSON
BICSI ID # 106098
EXPIRES 12-31-25
RCDD

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title BUILDING 147 FIRST FLOOR DEMO PLAN - TECHNOLOGY

Approved:

Phase FINAL BID DOCUMENTS

Sprinklered FULLY SPRINKLERED

Project Title EHRM INFRASTRUCTURE UPGRADES - MILWAUKEE, WI

Location 5000 W. NATIONAL AVENUE MILWAUKEE, WI

Issue Date SEPTEMBER 05, 2025 | **Checked** PHINIE | **Drawn** MAIBEJ

Project Number 695-21-700

Building Number 147

Drawing Number 147-TD101

VA FORM 08 - 6231

Autodesk Docs://OCFM East - Milwaukee EHRM (R24)/T24_18004375.03_VA MilwEHRM_C.rvt

9/3/2025 4:05:47 PM

GENERAL NOTES:

1. REFER TO 1/TN400 FOR TECHNOLOGY ROUGH IN DETAIL.
2. ALL NETWORK CABLES ON THIS SHEET SHALL TERMINATE IN TR-147-002.
3. CONTRACTOR TO PROVIDE NEW J-HOOK ROUTES FOR ALL NEW CABLING. J-HOOK SIZE AND QUANTITY TO BE PER MANUFACTURER RECOMMENDATIONS.
4. REFER TO TN500-TN509 FOR RISER DIAGRAMS.
5. REFER TO SHEET TN402 FOR PENETRATION DETAILS.
6. THESE DRAWINGS MAKE THE BEST ATTEMPT TO IDENTIFY EXISTING DATA DROPS/WORK AREA OUTLETS. AS LONG AS THE TOTAL NEWLY INSTALLED DATA DROP COUNT DOES NOT VARY +/- 10% IDENTIFIED ON THESE DRAWINGS, THE CONTRACTOR'S SCOPE SHALL BE UNCHANGED.
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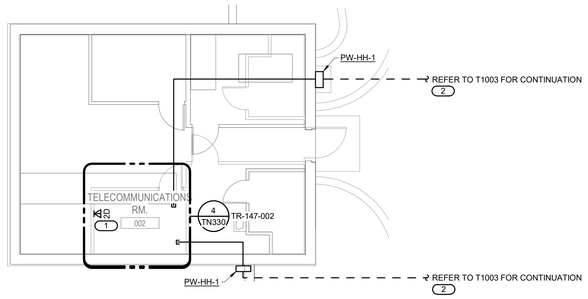
8. CONTRACTOR TO INCLUDE AN ALLOWANCE FOR 10% ADDITIONAL 2-PORTS CAT6A INFORMATION OUTLETS IN THEIR PROPOSAL FOR THIS SHEET. FUTURE INFORMATION OUTLET LOCATIONS WILL BE DETERMINED BY THE VA AT A LATER DATE.

KEYNOTES: (#)

1. JCI PACS PANEL LOCATION. GC TO COORDINATE EXACT LOCATION AND HEIGHT WITH COR TO CONNECT TO BUILDING 146 TR WITH CAT6A CABLE AS NECESSARY.
2. TWO (2) 4" CONDUITS TO BACKBONE PATH.



1 BUILDING 147 BASEMENT PLAN - TECHNOLOGY

1/8" = 1'-0"

TRUE NORTH
PLAN NORTH

35% SCHEMATIC DESIGN SUBMISSION	5.17.21
65% DESIGN DEVELOPMENT SUBMISSION	6.15.21
65% DESIGN DEVELOPMENT RESUBMISSION	8.25.21
Revisions:	Date:

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PROJECT #18004375.03

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DAVID LARSON
BICSI ID # 106098
EXPIRES 12-31-25
RCDD

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: BUILDING 147 BASEMENT PLAN - TECHNOLOGY

Approved:

Phase: FINAL BID DOCUMENTS

Sprinklered: FULLY SPRINKLERED

Project Title: EHRM INFRASTRUCTURE UPGRADES - MILWAUKEE, WI

Location: 5000 W. NATIONAL AVENUE MILWAUKEE, WI

Issue Date: SEPTEMBER 05, 2025 | Checked: PHINIE | Drawn: MAIBEJ

Project Number: 695-21-700

Building Number: 147

Drawing Number: 147-TN100

VA FORM 08 - 6231

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GENERAL NOTES:

1. REFER TO 1/TN400 FOR TECHNOLOGY ROUGH IN DETAIL.
2. ALL NETWORK CABLES ON THIS SHEET SHALL TERMINATE IN TR-147-002.
3. CONTRACTOR TO PROVIDE NEW J-HOOK ROUTES FOR ALL NEW CABLING. J-HOOK SIZE AND QUANTITY TO BE PER MANUFACTURER RECOMMENDATIONS.
4. REFER TO TN500-TN509 FOR RISER DIAGRAMS.
5. REFER TO SHEET TN402 FOR PENETRATION DETAILS.
6. THESE DRAWINGS MAKE THE BEST ATTEMPT TO IDENTIFY EXISTING DATA DROPS/WORK AREA OUTLETS. AS LONG AS THE TOTAL NEWLY INSTALLED DATA DROP COUNT DOES NOT VARY +/- 10% IDENTIFIED ON THESE DRAWINGS, THE CONTRACTOR'S SCOPE SHALL BE UNCHANGED.
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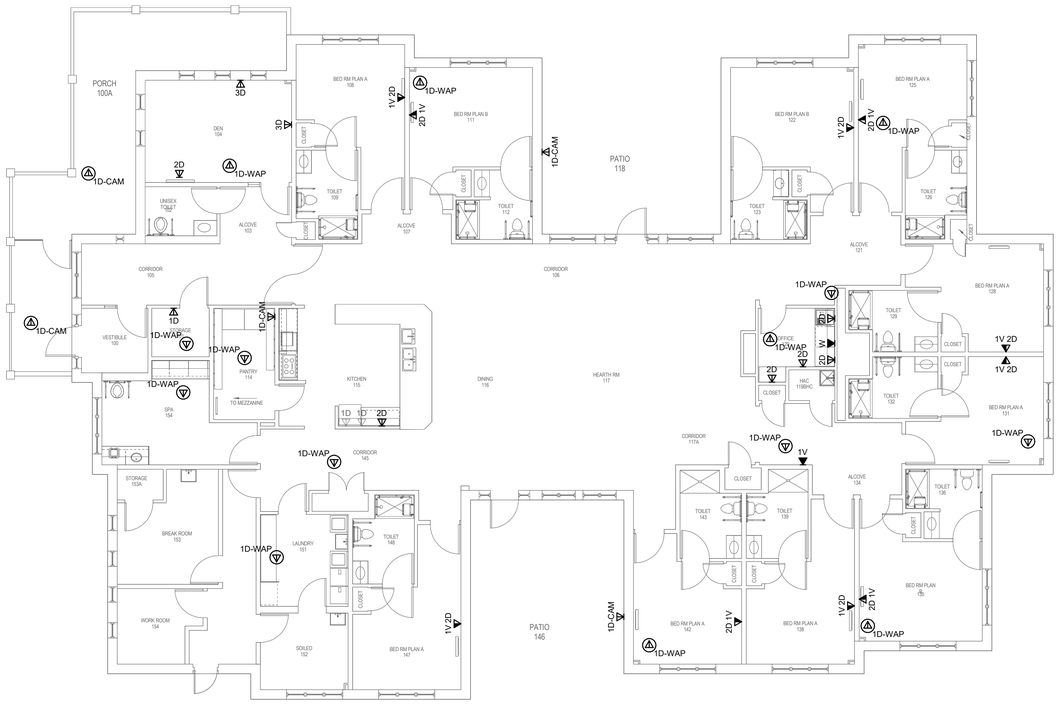

1 BUILDING 147 FIRST FLOOR PLAN - TECHNOLOGY

1/8" = 1'-0"

TRUE NORTH
PLAN NORTH

Revisions:	Date:
35% SCHEMATIC DESIGN SUBMISSION	5.17.21
65% DESIGN DEVELOPMENT SUBMISSION	6.15.21
65% DESIGN DEVELOPMENT RESUBMISSION	8.25.21

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Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: BUILDING 147 FIRST FLOOR PLAN - TECHNOLOGY

Approved:

Phase: FINAL BID DOCUMENTS

Sprinklered: FULLY SPRINKLERED

Project Title: EHRM INFRASTRUCTURE UPGRADES - MILWAUKEE, WI

Location: 5000 W. NATIONAL AVENUE MILWAUKEE, WI

Issue Date: SEPTEMBER 05, 2025 | Checked: PHINIE | Drawn: MAIBEJ

Project Number: 695-21-700

Building Number: 147

Drawing Number: 147-TN101

VA FORM 08 - 6231

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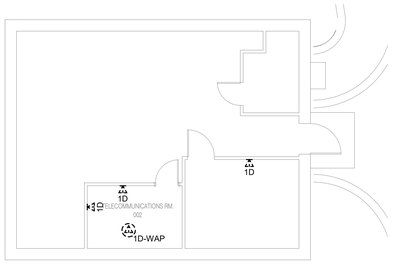
SHEET NOTES:

1. REMOVE ALL NETWORK CABLING TO POINTS OF TERMINATION IN ASSOCIATED TELECOM ROOMS. REFER TO FLOOR PLANS AND SHEET T1001 FOR TR ROOM LOCATIONS.
2. REFER TO ARCHITECTURAL PHASING PLANS FOR WHEN EXISTING CABLING IS ALLOWED TO BE DEMOLISHED.
3. FOR ALL EXISTING WIRELESS ACCESS POINTS AND SURVEILLANCE CAMERAS, DEVICES SHALL REMAIN. SCOPE OF WORK INCLUDES CABLE REPLACEMENT ONLY. COORDINATE WITH COR FOR ANY DOWNTIME OF DEVICES.
4. EXISTING LOCATIONS OF WORK AREA OUTLETS SHOWN ON THIS SHEET MAY NOT NECESSARILY BE IN THE EXACT LOCATION AS IDENTIFIED.

KEYNOTES: (#)

1. EXISTING BACKBONE ENTRY POINT, PROTECT IN PLACE. DEMOLISH EXISTING FIBER OPTIC CABLE TO POINTS OF TERMINATION AFTER REDUNDANT PATH IS INSTALLED AND OPERATIONAL. REFER TO PHASING PLAN FOR ADDITIONAL INFORMATION. EXISTING COPPER CABLE TO REMAIN, PROTECT IN PLACE.



1 BUILDING 148 BASEMENT DEMOLITION PLAN - TECHNOLOGY

1/8" = 1'-0"

TRUE NORTH
PLAN NORTH

35% SCHEMATIC DESIGN SUBMISSION	5.17.21
65% DESIGN DEVELOPMENT SUBMISSION	6.15.21
65% DESIGN DEVELOPMENT RESUBMISSION	8.25.21
Revisions:	Date:

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VA U.S. Department of Veterans Affairs

Drawing Title: BUILDING 148 BASEMENT DEMO PLAN - TECHNOLOGY	Phase: FINAL BID DOCUMENTS	Project Title: EHRM INFRASTRUCTURE UPGRADES - MILWAUKEE, WI	Project Number: 695-21-700
			Building Number: 148
Approved:	Sprinklered: FULLY SPRINKLERED	Location: 5000 W. NATIONAL AVENUE MILWAUKEE, WI	Drawing Number: 148-TD100
		Issue Date: SEPTEMBER 05, 2025 / Checked: PHINIE / Drawn: MAIBEJ	

VA FORM 08 - 6231

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Graphic Scale: 1/16" = 1'-0"
Graphic Scale: 1/8" = 1'-0"
Graphic Scale: 3/32" = 1'-0"
Graphic Scale: 1/4" = 1'-0"
Graphic Scale: 3/8" = 1'-0"
Graphic Scale: 1/2" = 1'-0"
Graphic Scale: 3/4" = 1'-0"
Graphic Scale: 1" = 1'-0"
Graphic Scale: 1 1/2" = 1'-0"

SHEET NOTES:

1. REMOVE ALL NETWORK CABLING TO POINTS OF TERMINATION IN ASSOCIATED TELECOM ROOMS. REFER TO FLOOR PLANS AND SHEET T1001 FOR TR ROOM LOCATIONS.
2. REFER TO ARCHITECTURAL PHASING PLANS FOR WHEN EXISTING CABLING IS ALLOWED TO BE DEMOLISHED.
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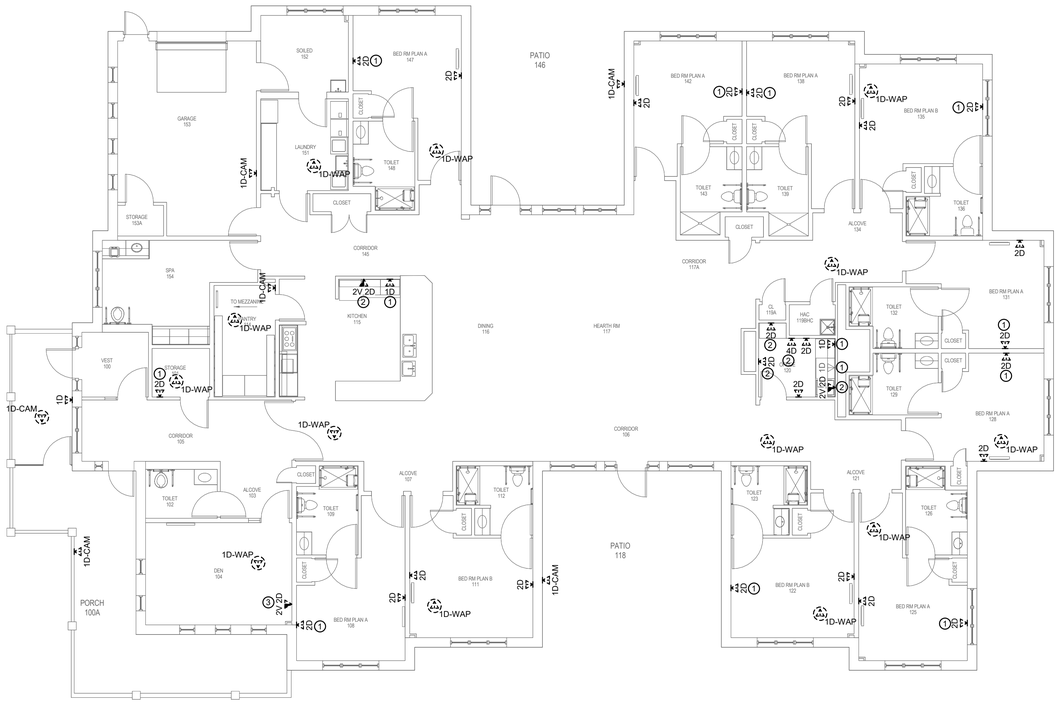

1 BUILDING 148 FIRST FLOOR DEMOLITION PLAN - TECHNOLOGY

1/8" = 1'-0"

TRUE NORTH
PLAN NORTH

Revisions:	Date:
35% SCHEMATIC DESIGN SUBMISSION	5.17.21
65% DESIGN DEVELOPMENT SUBMISSION	6.15.21
65% DESIGN DEVELOPMENT RESUBMISSION	8.25.21

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PROJECT #18004375.03

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Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title BUILDING 148 FIRST FLOOR DEMO PLAN - TECHNOLOGY	**Phase** FINAL BID DOCUMENTS	**Project Title** EHRM INFRASTRUCTURE UPGRADES - MILWAUKEE, WI	**Project Number** 695-21-700
Approved:	**Sprinklered** FULLY SPRINKLERED	**Location** 5000 W. NATIONAL AVENUE MILWAUKEE, WI	**Building Number** 148
		Issue Date SEPTEMBER 05, 2025 / **Checked** PHINIE / **Drawn** MAIBEJ	**Drawing Number** 148-TD101

VA FORM 08 - 6231

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Graphic Scale : 1/16" = 1'-0"
Graphic Scale : 1/8" = 1'-0"
Graphic Scale : 3/32" = 1'-0"
Graphic Scale : 1/4" = 1'-0"
Graphic Scale : 3/8" = 1'-0"
Graphic Scale : 1/2" = 1'-0"
Graphic Scale : 3/4" = 1'-0"
Graphic Scale : 1" = 1'-0"
Graphic Scale : 1 1/2" = 1'-0"

GENERAL NOTES:

1. REFER TO 1/TN400 FOR TECHNOLOGY ROUGH IN DETAIL.
2. ALL NETWORK CABLES ON THIS SHEET SHALL TERMINATE IN TR-148-002.
3. CONTRACTOR TO PROVIDE NEW J-HOOK ROUTES FOR ALL NEW CABLING. J-HOOK SIZE AND QUANTITY TO BE PER MANUFACTURER RECOMMENDATIONS.
4. REFER TO TN500-TN509 FOR RISER DIAGRAMS.
5. REFER TO SHEET TN402 FOR PENETRATION DETAILS.
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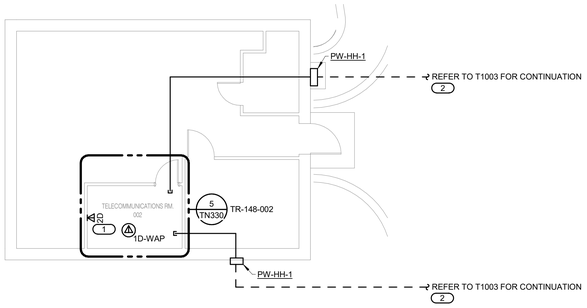
KEYNOTES: (#)

1. JCI PACS PANEL LOCATION. GC TO COORDINATE EXACT LOCATION AND HEIGHT WITH COR TO CONNECT TO BUILDING 146 TR WITH CAT6A CABLE AS NECESSARY.
2. TWO (2) 4" CONDUITS TO BACKBONE PATH.



1 BUILDING 148 BASEMENT PLAN - TECHNOLOGY

1/8" = 1'-0"

TRUE NORTH
PLAN NORTH

35% SCHEMATIC DESIGN SUBMISSION	5.17.21
65% DESIGN DEVELOPMENT SUBMISSION	6.15.21
65% DESIGN DEVELOPMENT RESUBMISSION	8.25.21
Revisions:	Date:

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VA U.S. Department of Veterans Affairs

Drawing Title: BUILDING 148 BASEMENT PLAN - TECHNOLOGY

Approved:

Phase: FINAL BID DOCUMENTS

Sprinklered: FULLY SPRINKLERED

Project Title: EHRM INFRASTRUCTURE UPGRADES - MILWAUKEE, WI

Location: 5000 W. NATIONAL AVENUE MILWAUKEE, WI

Issue Date: SEPTEMBER 05, 2025 | Checked: PHINIE | Drawn: MAIBEJ

Project Number: 695-21-700

Building Number: 148

Drawing Number: 148-TN100

VA FORM 08 - 6231

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GENERAL NOTES:

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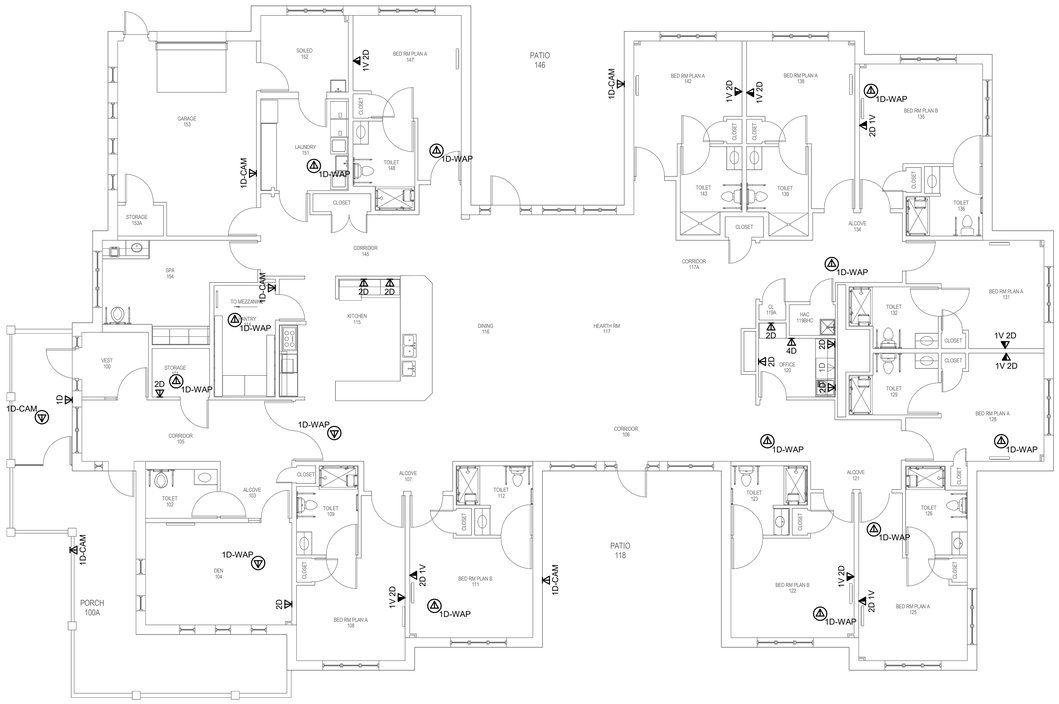

1 BUILDING 148 FIRST FLOOR PLAN - TECHNOLOGY

1/8" = 1'-0"

TRUE NORTH
PLAN NORTH

Revisions:	Date:
35% SCHEMATIC DESIGN SUBMISSION	5.17.21
65% DESIGN DEVELOPMENT SUBMISSION	6.15.21
65% DESIGN DEVELOPMENT RESUBMISSION	8.25.21

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Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: BUILDING 148 FIRST FLOOR PLAN - TECHNOLOGY

Approved:

Phase: FINAL BID DOCUMENTS

Sprinklered: FULLY SPRINKLERED

Project Title: EHRM INFRASTRUCTURE UPGRADES - MILWAUKEE, WI

Location: 5000 W. NATIONAL AVENUE MILWAUKEE, WI

Issue Date: SEPTEMBER 05, 2025 | Checked: PHINIE | Drawn: MAIBEJ

Project Number: 695-21-700

Building Number: 148

Drawing Number: 148-TN101

VA FORM 08 - 6231

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Graphic Scale: 1/16" = 1'-0"
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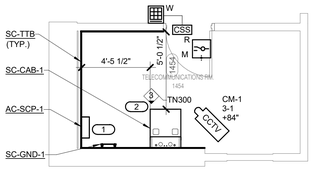
Graphic Scale: 3/32" = 1'-0"
Graphic Scale: 1/4" = 1'-0"
Graphic Scale: 3/8" = 1'-0"
Graphic Scale: 1/2" = 1'-0"
Graphic Scale: 3/4" = 1'-0"
Graphic Scale: 1" = 1'-0"
Graphic Scale: 1 1/2" = 1'-0"



1 TELECOM ROOM ENLARGEMENT TE-3-1454

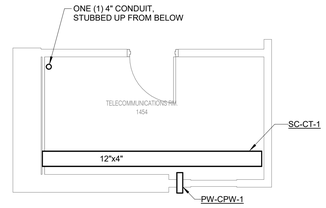
1/4" = 1'-0"

NOTES:

1. REFER TO 1/TN401 FOR BONDING BUS BAR DETAIL.
2. REFER TO 2/TN401 FOR TYPICAL TELECOM ROOM BONDING FLOW DIAGRAM.
3. REFER TO 3/TN401 FOR TECHNOLOGY BONDING RISER DIAGRAM.
4. CONTRACTOR SHALL COORDINATE CAMERA FIELD OF VIEW WITH CONTRACTING OFFICER PRIOR TO INSTALLATION.
5. DX-VERTIV ENCLOSURES ARE UTILIZED. REFER TO MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.

KEYNOTES: (#)

1. COORDINATE WITH ELECTRICAL CONTRACTOR FOR POWER PROVISIONING.
2. DOOR POSITION SWITCH/TAMPER SWITCH ON INSIDE OF DOOR.

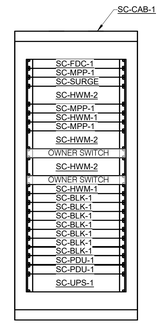


2 TELECOM ROOM PATHWAY TE-3-1454

1/4" = 1'-0"

NOTES:

1. LADDER RACK SHALL BE MOUNTED 6" ABOVE THE TOP OF THE TELECOM RACKS/CABINETS.

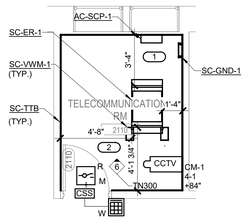


3 EQUIPMENT CABINET ELEVATION TE-3-1454

1" = 1'-0"

NOTES:

1. ALL EQUIPMENT SHALL BE LOCATED IN ITS DESIGNATED LOCATION AS DEFINED BY THIS LAYOUT UNLESS OTHERWISE NOTED. ALL EQUIPMENT IS SIZED BY RACK UNITS (RU) ACCORDING TO THE BASIS OF DESIGN MANUFACTURER AND MODEL NUMBER. THE FINAL LAYOUT AND EQUIPMENT SIZE MAY VARY BASED ON THE FINAL SELECTION OF THE EQUIPMENT. ANY CHANGES TO THE LAYOUT SHOWN ABOVE SHALL BE COORDINATED WITH THE C.O.R. PRIOR TO INSTALLATION. REFER TO THE GENERAL TECHNOLOGY EQUIPMENT SCHEDULE AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.
2. RACK BONDING BUS BAR (SC-GND-2), RBB, SHALL BE MOUNTED AT THE REAR, TOP OF THE CABINET. REFER TO SPECIFICATION SECTION 270526 FOR ADDITIONAL INFORMATION.



4 TELECOM ROOM ENLARGEMENT TR-4-2110

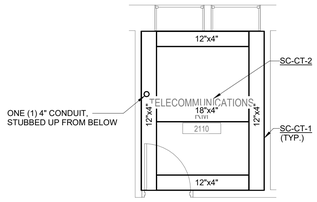
1/4" = 1'-0"

NOTES:

1. REFER TO 1/TN401 FOR BONDING BUS BAR DETAIL.
2. REFER TO 2/TN401 FOR TYPICAL TELECOM ROOM BONDING FLOW DIAGRAM.
3. REFER TO 3/TN401 FOR TECHNOLOGY BONDING RISER DIAGRAM.
4. CONTRACTOR SHALL COORDINATE CAMERA FIELD OF VIEW WITH CONTRACTING OFFICER PRIOR TO INSTALLATION.
5. DX-VERTIV ENCLOSURES ARE UTILIZED. REFER TO MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.
6. CONTRACTOR TO PROVIDE 3' CLEAR ON EACH SIDE OF RACK AT A MINIMUM. IF ROOM SIZE IS NOT SUFFICIENT TO PROVIDE 3' ON EVERY SIDE OF RACK, THEN ONE SIDE CAN BE PLACED 1' FROM THE WALL. IF ROOM SIZE IS NOT SUFFICIENT FOR 3', 3', 3', 1', THEN CONTRACTOR SHALL NOTIFY A/E AND COR PRIOR TO ANY CONSTRUCTION BEING COMPLETED IN THE TR.

KEYNOTES:

1. COORDINATE WITH ELECTRICAL CONTRACTOR FOR POWER PROVISIONING.
2. DOOR POSITION SWITCH/TAMPER SWITCH ON INSIDE OF DOOR.

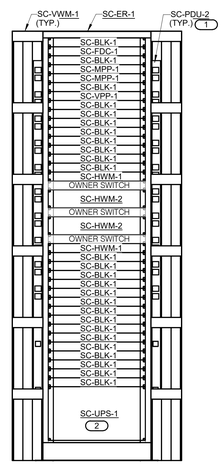


5 TELECOM ROOM PATHWAY TR-4-2110

1/4" = 1'-0"

NOTES:

1. LADDER RACK SHALL BE MOUNTED 6" ABOVE THE TOP OF THE TELECOM RACKS/CABINETS.



6 EQUIPMENT RACK ELEVATION TR-4-2110

1" = 1'-0"

NOTES:

1. ALL EQUIPMENT SHALL BE LOCATED IN ITS DESIGNATED LOCATION AS DEFINED BY THIS LAYOUT UNLESS OTHERWISE NOTED. ALL EQUIPMENT IS SIZED BY RACK UNITS (RU) ACCORDING TO THE BASIS OF DESIGN MANUFACTURER AND MODEL NUMBER. THE FINAL LAYOUT AND EQUIPMENT SIZE MAY VARY BASED ON THE FINAL SELECTION OF THE EQUIPMENT. ANY CHANGES TO THE LAYOUT SHOWN ABOVE SHALL BE COORDINATED WITH THE C.O.R. PRIOR TO INSTALLATION. REFER TO THE GENERAL TECHNOLOGY EQUIPMENT SCHEDULE AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.
2. FIBER DISTRIBUTION FOR LEG "A" SHALL BE ON THE LEFT SIDE OF THE FIBER PANEL, LEG "B" SHALL BE ON THE RIGHT SIDE.
3. RACK BONDING BUS BAR (SC-GND-2), RBB, SHALL BE MOUNTED AT THE REAR, TOP OF THE CABINET. REFER TO SPECIFICATION SECTION 270526 FOR ADDITIONAL INFORMATION.

KEYNOTES: (#)

1. CONTRACTOR TO FURNISH AND INSTALL TWO (2) SC-PDU-2 PER RACK, MOUNTED AT THE REAR OF THE RACK, ONE (1) PER SIDE.
2. REFER TO ELECTRICAL PLANS AND SPECIFICATIONS FOR UPS INFORMATION.

Revisions:	Date:
35% SCHEMATIC DESIGN SUBMISSION	5.17.21
65% DESIGN DEVELOPMENT SUBMISSION	6.15.21
65% DESIGN DEVELOPMENT RESUBMISSION	8.25.21

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DAVID LARSON
BICSI ID # 105098
EXPIRES 12-31-25
RCDD

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: TECHNOLOGY ROOM ENLARGEMENTS

Approved:

Phase: FINAL BID DOCUMENTS

Sprinklered: FULLY SPRINKLERED

Project Title: EHRM INFRASTRUCTURE UPGRADES - MILWAUKEE, WI

Location: 5000 W. NATIONAL AVENUE MILWAUKEE, WI

Issue Date: SEPTEMBER 05, 2025 | Checked: PHINIE | Drawn: MAIBEJ

Project Number: 695-21-700

Building Number:

Drawing Number: TN300

VA FORM 08 - 6231

Autodesk Docs://OCFM East - Milwaukee EHRM (R24)/T24_18004375.03_VA MilwEHRM_C.rvt

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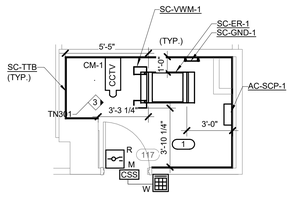
Graphic Scale: 1/4" = 1'-0"
Graphic Scale: 1/8" = 1'-0"
Graphic Scale: 3/32" = 1'-0"
Graphic Scale: 3/16" = 1'-0"
Graphic Scale: 1/2" = 1'-0"
Graphic Scale: 3/4" = 1'-0"
Graphic Scale: 1" = 1'-0"
Graphic Scale: 1 1/2" = 1'-0"



1 TELECOM ROOM ENLARGEMENT TR-5-117

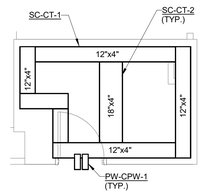
1/4" = 1'-0"

NOTES:

1. REFER TO 1/TN401 FOR BONDING BUS BAR DETAIL.
2. REFER TO 2/TN401 FOR TYPICAL TELECOM ROOM BONDING FLOW DIAGRAM.
3. REFER TO 3/TN401 FOR TECHNOLOGY BONDING RISER DIAGRAM.
4. CONTRACTOR SHALL COORDINATE CAMERA FIELD OF VIEW WITH CONTRACTING OFFICER PRIOR TO INSTALLATION.
5. DX-VERTIV ENCLOSURES ARE UTILIZED. REFER TO MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.
6. CONTRACTOR TO PROVIDE 3' CLEAR ON EACH SIDE OF RACK,AT A MINIMUM. IF ROOM SIZE IS NOT SUFFICIENT TO PROVIDE 3' ON EVERY SIDE OF RACK, THEN ONE SIDE CAN BE PLACED 1' FROM THE WALL. IF ROOM SIZE IS NOT SUFFICIENT FOR 3', 3', 3', 1', THEN CONTRACTOR SHALL NOTIFY A/E AND COR PRIOR TO ANY CONSTRUCTION BEING COMPLETED IN THE TR.

KEYNOTES:

1. COORDINATE WITH ELECTRICAL CONTRACTOR FOR POWER PROVISIONING.

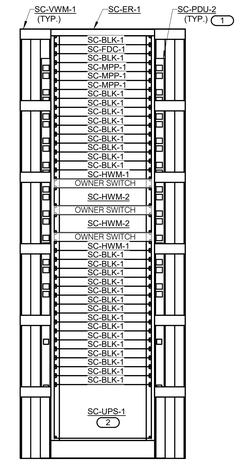


2 TELECOM ROOM PATHWAY TR-5-117

1/4" = 1'-0"

NOTES:

1. LADDER RACK SHALL BE MOUNTED 6" ABOVE THE TOP OF THE TELECOM RACKS/CABINETS.



3 EQUIPMENT RACK ELEVATION TR-5-117

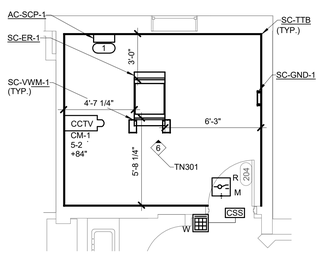
NO SCALE

NOTES:

1. ALL EQUIPMENT SHALL BE LOCATED IN ITS DESIGNATED LOCATION AS DEFINED BY THIS LAYOUT UNLESS OTHERWISE NOTED. ALL EQUIPMENT IS SIZED BY RACK UNITS (RU) ACCORDING TO THE BASIS OF DESIGN MANUFACTURER AND MODEL NUMBER. THE FINAL LAYOUT AND EQUIPMENT SIZE MAY VARY BASED ON THE FINAL SELECTION OF THE EQUIPMENT. ANY CHANGES TO THE LAYOUT SHOWN ABOVE SHALL BE COORDINATED WITH THE C.O.R. PRIOR TO INSTALLATION. REFER TO THE GENERAL TECHNOLOGY EQUIPMENT SCHEDULE AND SPECIFICATIONS FOR ADDITIONAL INFORMATION..
2. FIBER DISTRIBUTION FOR LEG "A" SHALL BE ON THE LEFT SIDE OF THE FIBER PANEL, LEG "B" SHALL BE ON THE RIGHT SIDE.
3. RACK BONDING BUS BAR (SC-GND-2), RBB, SHALL BE MOUNTED AT THE REAR, TOP OF THE CABINET. REFER TO SPECIFICATION SECTION 270526 FOR ADDITIONAL INFORMATION.

KEYNOTES: (#)

1. CONTRACTOR TO FURNISH AND INSTALL TWO (2) SC-PDU-2 PER RACK, MOUNTED AT THE REAR OF THE RACK, ONE (1) PER SIDE.
2. REFER TO ELECTRICAL PLANS AND SPECIFICATIONS FOR UPS INFORMATION.



4 TELECOM ROOM ENLARGEMENT TR-5-204

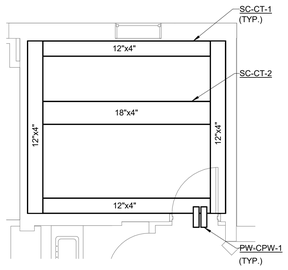
1/4" = 1'-0"

NOTES:

1. REFER TO 1/TN401 FOR BONDING BUS BAR DETAIL.
2. REFER TO 2/TN401 FOR TYPICAL TELECOM ROOM BONDING FLOW DIAGRAM.
3. REFER TO 3/TN401 FOR TECHNOLOGY BONDING RISER DIAGRAM.
4. CONTRACTOR SHALL COORDINATE CAMERA FIELD OF VIEW WITH CONTRACTING OFFICER PRIOR TO INSTALLATION.
5. DX-VERTIV ENCLOSURES ARE UTILIZED. REFER TO MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.
6. CONTRACTOR TO PROVIDE 3' CLEAR ON EACH SIDE OF RACK AT A MINIMUM. IF ROOM SIZE IS NOT SUFFICIENT TO PROVIDE 3' ON EVERY SIDE OF RACK, THEN ONE SIDE CAN BE PLACED 1' FROM THE WALL. IF ROOM SIZE IS NOT SUFFICIENT FOR 3', 3', 3', 1', THEN CONTRACTOR SHALL NOTIFY A/E AND COR PRIOR TO ANY CONSTRUCTION BEING COMPLETED IN THE TR.

KEYNOTES:

1. COORDINATE WITH ELECTRICAL CONTRACTOR FOR POWER PROVISIONING.

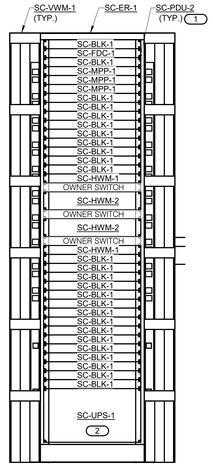


5 TELECOM ROOM PATHWAY TR-5-204

1/4" = 1'-0"

NOTES:

1. LADDER RACK SHALL BE MOUNTED 6" ABOVE THE TOP OF THE TELECOM RACKS/CABINETS.



6 EQUIPMENT RACK ELEVATION TR-5-204

NO SCALE

NOTES:

1. ALL EQUIPMENT SHALL BE LOCATED IN ITS DESIGNATED LOCATION AS DEFINED BY THIS LAYOUT UNLESS OTHERWISE NOTED. ALL EQUIPMENT IS SIZED BY RACK UNITS (RU) ACCORDING TO THE BASIS OF DESIGN MANUFACTURER AND MODEL NUMBER. THE FINAL LAYOUT AND EQUIPMENT SIZE MAY VARY BASED ON THE FINAL SELECTION OF THE EQUIPMENT. ANY CHANGES TO THE LAYOUT SHOWN ABOVE SHALL BE COORDINATED WITH THE C.O.R. PRIOR TO INSTALLATION. REFER TO THE GENERAL TECHNOLOGY EQUIPMENT SCHEDULE AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.
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3. RACK BONDING BUS BAR (SC-GND-2), RBB, SHALL BE MOUNTED AT THE REAR, TOP OF THE CABINET. REFER TO SPECIFICATION SECTION 270526 FOR ADDITIONAL INFORMATION.

KEYNOTES: (#)

1. CONTRACTOR TO FURNISH AND INSTALL TWO (2) SC-PDU-2 PER RACK, MOUNTED AT THE REAR OF THE RACK, ONE (1) PER SIDE.
2. REFER TO ELECTRICAL PLANS AND SPECIFICATIONS FOR UPS INFORMATION.

35% SCHEMATIC DESIGN SUBMISSION	5.17.21
65% DESIGN DEVELOPMENT SUBMISSION	6.15.21
65% DESIGN DEVELOPMENT RESUBMISSION	8.25.21
Revisions:	Date:

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Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: TECHNOLOGY ROOM ENLARGEMENTS	Phase: FINAL BID DOCUMENTS	Project Title: EHRM INFRASTRUCTURE UPGRADES - MILWAUKEE, WI	Project Number: 695-21-700
			Building Number:
Approved:	Sprinklered: FULLY SPRINKLERED	Location: 5000 W. NATIONAL AVENUE MILWAUKEE, WI	Drawing Number: TN301
		Issue Date: SEPTEMBER 05, 2025 / Checked: PHINIE / Drawn: MAIBEJ	

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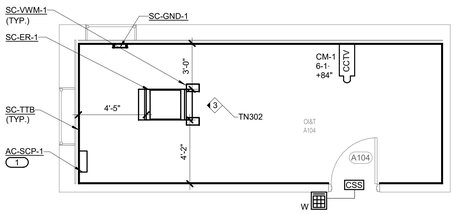


1 TELECOM ROOM ENLARGEMENT TR-6-A104

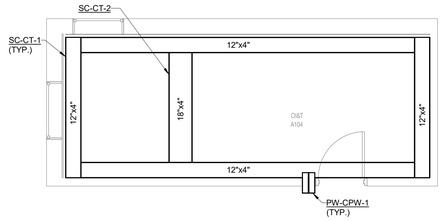
1/4" = 1'-0"

NOTES:

1. REFER TO 1/TN401 FOR BONDING BUS BAR DETAIL.
2. REFER TO 2/TN401 FOR TYPICAL TELECOM ROOM BONDING FLOW DIAGRAM.
3. REFER TO 3/TN401 FOR TECHNOLOGY BONDING RISER DIAGRAM.
4. CONTRACTOR SHALL COORDINATE CAMERA FIELD OF VIEW WITH CONTRACTING OFFICER PRIOR TO INSTALLATION.
5. DX-VERTIV ENCLOSURES ARE UTILIZED. REFER TO MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.
6. CONTRACTOR TO PROVIDE 3' CLEAR ON EACH SIDE OF RACK AT A MINIMUM. IF ROOM SIZE IS NOT SUFFICIENT TO PROVIDE 3' ON EVERY SIDE OF RACK, THEN ONE SIDE CAN BE PLACED 1' FROM THE WALL. IF ROOM SIZE IS NOT SUFFICIENT FOR 3', 3', 3', 1', THEN CONTRACTOR SHALL NOTIFY A/E AND COR PRIOR TO ANY CONSTRUCTION BEING COMPLETED IN THE TR.

KEYNOTES:

1. COORDINATE WITH ELECTRICAL CONTRACTOR FOR POWER PROVISIONING.

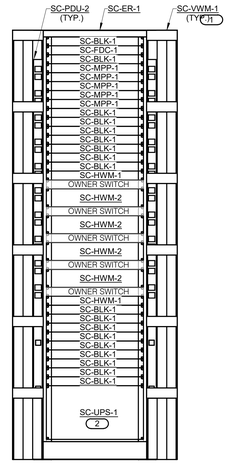


2 TELECOM ROOM PATHWAY TR-6-A104

1/4" = 1'-0"

NOTES:

1. LADDER RACK SHALL BE MOUNTED 6" ABOVE THE TOP OF THE TELECOM RACKS/CABINETS.



3 EQUIPMENT RACK ELEVATION TR-6-A104

NO SCALE

NOTES:

1. ALL EQUIPMENT SHALL BE LOCATED IN ITS DESIGNATED LOCATION AS DEFINED BY THIS LAYOUT UNLESS OTHERWISE NOTED. ALL EQUIPMENT IS SIZED BY RACK UNITS (RU) ACCORDING TO THE BASIS OF DESIGN MANUFACTURER AND MODEL NUMBER. THE FINAL LAYOUT AND EQUIPMENT SIZE MAY VARY BASED ON THE FINAL SELECTION OF THE EQUIPMENT. ANY CHANGES TO THE LAYOUT SHOWN ABOVE SHALL BE COORDINATED WITH THE C.O.R. PRIOR TO INSTALLATION. REFER TO THE GENERAL TECHNOLOGY EQUIPMENT SCHEDULE AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.
2. FIBER DISTRIBUTION FOR LEG "A" SHALL BE ON THE LEFT SIDE OF THE FIBER PANEL, LEG "B" SHALL BE ON THE RIGHT SIDE.
3. RACK BONDING BUS BAR (SC-GND-2) TO BE LOCATED AT REAR OF RACK, RACK UNIT 45. RACK BONDING BAR SHALL BE DUAL LUG HOLE SUITABLE FOR #6 AWG BONDING CONDUCTORS

KEYNOTES: #

1. CONTRACTOR TO FURNISH AND INSTALL TWO (2) SC-PDU-2 PER RACK, MOUNTED AT THE REAR OF THE RACK. ONE (1) PER SIDE.
2. REFER TO ELECTRICAL PLANS AND SPECIFICATIONS FOR UPS INFORMATION.

Revisions:	Date:
35% SCHEMATIC DESIGN SUBMISSION	5.17.21
65% DESIGN DEVELOPMENT SUBMISSION	6.15.21
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Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: TECHNOLOGY ROOM ENLARGEMENTS

Approved:

Phase: FINAL BID DOCUMENTS

Sprinklered: FULLY SPRINKLERED

Project Title: EHRM INFRASTRUCTURE UPGRADES - MILWAUKEE, WI

Location: 5000 W. NATIONAL AVENUE MILWAUKEE, WI

Issue Date: SEPTEMBER 05, 2025

Checked: PHINIE

Drawn: MAIBEJ

Project Number: 695-21-700

Building Number:

Drawing Number: TN302

VA FORM 08 - 6231

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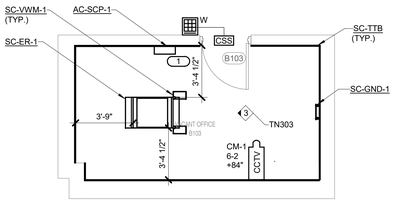


1 TELECOM ROOM ENLARGEMENT TR-6-B103

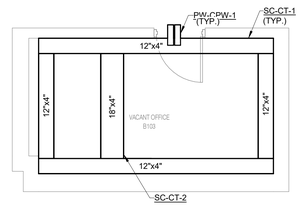
1/4" = 1'-0"

NOTES:

1. REFER TO 1/TN401 FOR BONDING BUS BAR DETAIL.
2. REFER TO 2/TN401 FOR TYPICAL TELECOM ROOM BONDING FLOW DIAGRAM.
3. REFER TO 3/TN401 FOR TECHNOLOGY BONDING RISER DIAGRAM.
4. CONTRACTOR SHALL COORDINATE CAMERA FIELD OF VIEW WITH CONTRACTING OFFICER PRIOR TO INSTALLATION.
5. DX-VERTIV ENCLOSURES ARE UTILIZED. REFER TO MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.
6. CONTRACTOR TO PROVIDE 3' CLEAR ON EACH SIDE OF RACK AT A MINIMUM. IF ROOM SIZE IS NOT SUFFICIENT TO PROVIDE 3' ON EVERY SIDE OF RACK, THEN ONE SIDE CAN BE PLACED 1' FROM THE WALL. IF ROOM SIZE IS NOT SUFFICIENT FOR 3', 3', 3', 1', THEN CONTRACTOR SHALL NOTIFY A/E AND COR PRIOR TO ANY CONSTRUCTION BEING COMPLETED IN THE TR.

KEYNOTES:

1. COORDINATE WITH ELECTRICAL CONTRACTOR FOR POWER PROVISIONING.

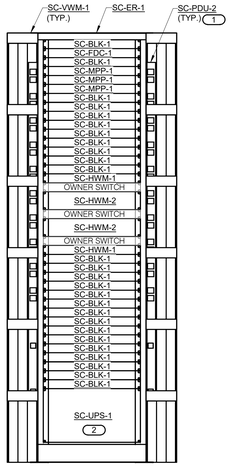


2 TELECOM ROOM PATHWAY TR-6-B103

1/4" = 1'-0"

NOTES:

1. LADDER RACK SHALL BE MOUNTED 6" ABOVE THE TOP OF THE TELECOM RACKS/CABINETS.



3 EQUIPMENT RACK ELEVATION TR-6-B103

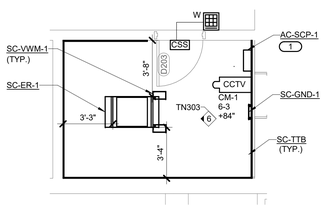
NO SCALE

NOTES:

1. ALL EQUIPMENT SHALL BE LOCATED IN ITS DESIGNATED LOCATION AS DEFINED BY THIS LAYOUT UNLESS OTHERWISE NOTED. ALL EQUIPMENT IS SIZED BY RACK UNITS (RU) ACCORDING TO THE BASIS OF DESIGN MANUFACTURER AND MODEL NUMBER. THE FINAL LAYOUT AND EQUIPMENT SIZE MAY VARY BASED ON THE FINAL SELECTION OF THE EQUIPMENT. ANY CHANGES TO THE LAYOUT SHOWN ABOVE SHALL BE COORDINATED WITH THE C.O.R. PRIOR TO INSTALLATION. REFER TO THE GENERAL TECHNOLOGY EQUIPMENT SCHEDULE AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.
2. FIBER DISTRIBUTION FOR LEG "A" SHALL BE ON THE LEFT SIDE OF THE FIBER PANEL, LEG "B" SHALL BE ON THE RIGHT SIDE.
3. RACK BONDING BUS BAR (SC-GND-2) TO BE LOCATED AT REAR OF RACK, RACK UNIT 45. RACK BONDING BAR SHALL BE DUAL LUG HOLE SUITABLE FOR #6 AWG BONDING CONDUCTORS

KEYNOTES: (#)

1. CONTRACTOR TO FURNISH AND INSTALL TWO (2) SC-PDU-2 PER RACK, MOUNTED AT THE REAR OF THE RACK, ONE (1) PER SIDE.
2. REFER TO ELECTRICAL PLANS AND SPECIFICATIONS FOR UPS INFORMATION.



4 TELECOM ROOM ENLARGEMENT TR-6-D203

1/4" = 1'-0"

NOTES:

1. REFER TO 1/TN401 FOR BONDING BUS BAR DETAIL.
2. REFER TO 2/TN401 FOR TYPICAL TELECOM ROOM BONDING FLOW DIAGRAM.
3. REFER TO 3/TN401 FOR TECHNOLOGY BONDING RISER DIAGRAM.
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KEYNOTES:

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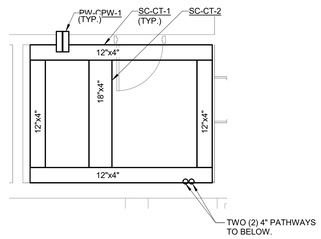
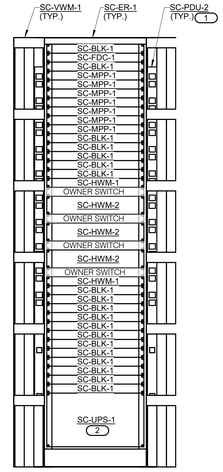


5 TELECOM ROOM PATHWAY TR-6-D203

1/4" = 1'-0"

NOTES:

1. LADDER RACK SHALL BE MOUNTED 6" ABOVE THE TOP OF THE TELECOM RACKS/CABINETS.



6 EQUIPMENT RACK ELEVATION TR-6-D203

NO SCALE

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KEYNOTES: (#)

1. CONTRACTOR TO FURNISH AND INSTALL TWO (2) SC-PDU-2 PER RACK, MOUNTED AT THE REAR OF THE RACK, ONE (1) PER SIDE.
2. REFER TO ELECTRICAL PLANS AND SPECIFICATIONS FOR UPS INFORMATION.

35% SCHEMATIC DESIGN SUBMISSION	5.17.21
65% DESIGN DEVELOPMENT SUBMISSION	6.15.21
65% DESIGN DEVELOPMENT RESUBMISSION	8.25.21
Revisions:	Date:

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PROJECT #18004375.03

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Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: TECHNOLOGY ROOM ENLARGEMENTS	Phase: FINAL BID DOCUMENTS	Project Title: EHRM INFRASTRUCTURE UPGRADES - MILWAUKEE, WI	Project Number: 695-21-700
			Building Number:
Approved:	Sprinklered: FULLY SPRINKLERED	Location: 5000 W. NATIONAL AVENUE MILWAUKEE, WI	Drawing Number: TN303
		Issue Date: SEPTEMBER 05, 2025 / Checked: PHINIE / Drawn: MAIBEJ	

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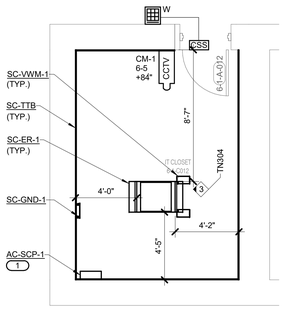
Autodesk Docs://OCFM East - Milwaukee EHRM (R24)/T24_18004375.03_VA MilwEHRM_C.rvt



1 TELECOM ROOM ENLARGEMENT TR-6-1-C013

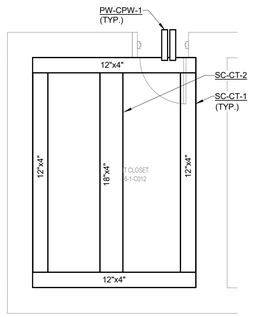
1/4" = 1'-0"

NOTES:

1. REFER TO 1/TN401 FOR BONDING BUS BAR DETAIL.
2. REFER TO 2/TN401 FOR TYPICAL TELECOM ROOM BONDING FLOW DIAGRAM.
3. REFER TO 3/TN401 FOR TECHNOLOGY BONDING RISER DIAGRAM.
4. CONTRACTOR SHALL COORDINATE CAMERA FIELD OF VIEW WITH CONTRACTING OFFICER PRIOR TO INSTALLATION.
5. CONTRACTOR TO PROVIDE 3' CLEAR ON EACH SIDE OF RACK AT A MINIMUM. IF ROOM SIZE IS NOT SUFFICIENT TO PROVIDE 3' ON EVERY SIDE OF RACK, THEN ONE SIDE CAN BE PLACED 1' FROM THE WALL. IF ROOM SIZE IS NOT SUFFICIENT FOR 3', 3', 3', 1', THEN CONTRACTOR SHALL NOTIFY A/E AND COR PRIOR TO ANY CONSTRUCTION BEING COMPLETED IN THE TR.

KEYNOTES:

1. COORDINATE WITH ELECTRICAL CONTRACTOR FOR POWER PROVISIONING.

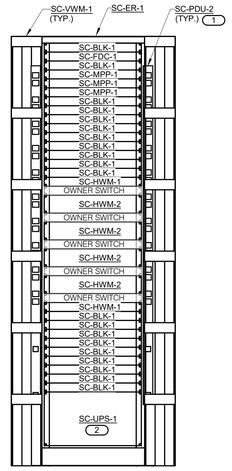


2 TELECOM ROOM PATHWAY TR-6-C013

1/4" = 1'-0"

NOTES:

1. LADDER RACK SHALL BE MOUNTED 6" ABOVE THE TOP OF THE TELECOM RACKS/CABINETS.



3 EQUIPMENT RACK ELEVATION TR-6-C013

NO SCALE

NOTES:

1. ALL EQUIPMENT SHALL BE LOCATED IN ITS DESIGNATED LOCATION AS DEFINED BY THIS LAYOUT UNLESS OTHERWISE NOTED. ALL EQUIPMENT IS SIZED BY RACK UNITS (RU). ACCORDING TO THE BASIS OF DESIGN MANUFACTURER AND MODEL NUMBER. THE FINAL LAYOUT AND EQUIPMENT SIZE MAY VARY BASED ON THE FINAL SELECTION OF THE EQUIPMENT. ANY CHANGES TO THE LAYOUT SHOWN ABOVE SHALL BE COORDINATED WITH THE C.O.R. PRIOR TO INSTALLATION. REFER TO THE GENERAL TECHNOLOGY EQUIPMENT SCHEDULE AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.
2. FIBER DISTRIBUTION FOR LEG "A" SHALL BE ON THE LEFT SIDE OF THE FIBER PANEL, LEG "B" SHALL BE ON THE RIGHT SIDE.
3. RACK BONDING BUS BAR (SC-GND-2) TO BE LOCATED AT REAR OF RACK, RACK UNIT 45. RACK BONDING BAR SHALL BE DUAL LUG HOLE SUITABLE FOR #6 AWG BONDING CONDUCTORS

KEYNOTES: 9

1. CONTRACTOR TO FURNISH AND INSTALL TWO (2) SC-PDU-2 PER RACK, MOUNTED AT THE REAR OF THE RACK, ONE (1) PER SIDE.
2. REFER TO ELECTRICAL PLANS AND SPECIFICATIONS FOR UPS INFORMATION.

Revisions:	Date:
35% SCHEMATIC DESIGN SUBMISSION	5.17.21
65% DESIGN DEVELOPMENT SUBMISSION	6.15.21
65% DESIGN DEVELOPMENT RESUBMISSION	8.25.21

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Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: TECHNOLOGY ROOM ENLARGEMENTS

Approved:

Phase: FINAL BID DOCUMENTS

Sprinklered: FULLY SPRINKLERED

Project Title: EHRM INFRASTRUCTURE UPGRADES - MILWAUKEE, WI

Location: 5000 W. NATIONAL AVENUE MILWAUKEE, WI

Issue Date: SEPTEMBER 05, 2025

Checked: PHINIE

Drawn: MAIBEJ

Project Number: 695-21-700

Building Number:

Drawing Number: TN304

VA FORM 08 - 6231

Autodesk Docs://OCFM East - Milwaukee EHRM (R24)/T24_18004375.03_VA MilwEHRM_C.rvt

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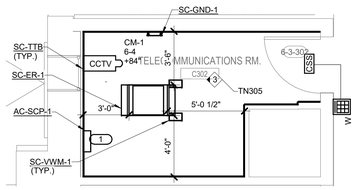
Graphic Scale: 1/16" = 1'-0" 0' 8' 16' 32'
Graphic Scale: 1/8" = 1'-0" 0' 4' 8' 16'
Graphic Scale: 3/32" = 1'-0" 0' 4" 8" 1' 2'
Graphic Scale: 1/4" = 1'-0" 0' 1' 2' 4'
Graphic Scale: 3/8" = 1'-0" 0' 1' 2' 4'
Graphic Scale: 1/2" = 1'-0" 0' 1' 2' 4'
Graphic Scale: 3/4" = 1'-0" 0' 6" 1' 2'
Graphic Scale: 1" = 1'-0" 0' 6" 1' 2'
Graphic Scale: 1 1/2" = 1'-0" 0' 3" 6" 1' 1'6"



1 TELECOM ROOM ENLARGEMENT TR-6-C302

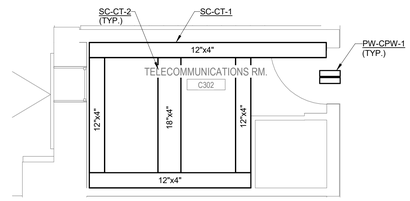
1/4" = 1'-0"

NOTES:

1. REFER TO 1/TN401 FOR BONDING BUS BAR DETAIL.
2. REFER TO 2/TN401 FOR TYPICAL TELECOM ROOM BONDING FLOW DIAGRAM.
3. REFER TO 3/TN401 FOR TECHNOLOGY BONDING RISER DIAGRAM.
4. CONTRACTOR SHALL COORDINATE CAMERA FIELD OF VIEW WITH CONTRACTING OFFICER PRIOR TO INSTALLATION.
5. CONTRACTOR TO PROVIDE 3' CLEAR ON EACH SIDE OF RACK AT A MINIMUM. IF ROOM SIZE IS NOT SUFFICIENT TO PROVIDE 3' ON EVERY SIDE OF RACK, THEN ONE SIDE CAN BE PLACED 1' FROM THE WALL. IF ROOM SIZE IS NOT SUFFICIENT FOR 3', 3', 3', 1', THEN CONTRACTOR SHALL NOTIFY A/E AND COR PRIOR TO ANY CONSTRUCTION BEING COMPLETED IN THE TR.

KEYNOTES:

1. COORDINATE WITH ELECTRICAL CONTRACTOR FOR POWER PROVISIONING.

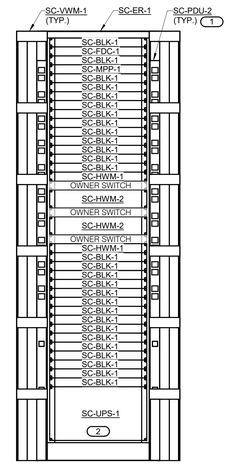


2 TELECOM ROOM PATHWAY TR-6-C302

1/4" = 1'-0"

NOTES:

1. LADDER RACK SHALL BE MOUNTED 6" ABOVE THE TOP OF THE TELECOM RACKS/CABINETS.



3 EQUIPMENT RACK ELEVATION TR-6-C1

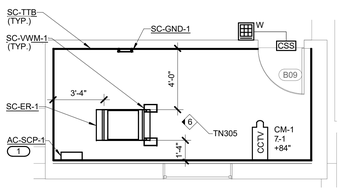
1" = 1'-0"

NOTES:

1. ALL EQUIPMENT SHALL BE LOCATED IN ITS DESIGNATED LOCATION AS DEFINED BY THIS LAYOUT UNLESS OTHERWISE NOTED. ALL EQUIPMENT IS SIZED BY RACK UNITS (RU) ACCORDING TO THE BASIS OF DESIGN MANUFACTURER AND MODEL NUMBER. THE FINAL LAYOUT AND EQUIPMENT SIZE MAY VARY BASED ON THE FINAL SELECTION OF THE EQUIPMENT. ANY CHANGES TO THE LAYOUT SHOWN ABOVE SHALL BE COORDINATED WITH THE C.O.R. PRIOR TO INSTALLATION. REFER TO THE GENERAL TECHNOLOGY EQUIPMENT SCHEDULE AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.
2. FIBER DISTRIBUTION FOR LEG "A" SHALL BE ON THE LEFT SIDE OF THE FIBER PANEL, LEG "B" SHALL BE ON THE RIGHT SIDE.
3. RACK BONDING BUS BAR (SC-GND-2) TO BE LOCATED AT REAR OF RACK, RACK UNIT 45. RACK BONDING BAR SHALL BE DUAL LUG HOLE SUITABLE FOR #6 AWG BONDING CONDUCTORS

KEYNOTES: (#)

1. CONTRACTOR TO FURNISH AND INSTALL TWO (2) SC-PDU-2 PER RACK, MOUNTED AT THE REAR OF THE RACK, ONE (1) PER SIDE.
2. REFER TO ELECTRICAL PLANS AND SPECIFICATIONS FOR UPS INFORMATION.



4 TELECOM ROOM ENLARGEMENT TR-7-B09

1/4" = 1'-0"

NOTES:

1. REFER TO 1/TN401 FOR BONDING BUS BAR DETAIL.
2. REFER TO 2/TN401 FOR TYPICAL TELECOM ROOM BONDING FLOW DIAGRAM.
3. REFER TO 3/TN401 FOR TECHNOLOGY BONDING RISER DIAGRAM.
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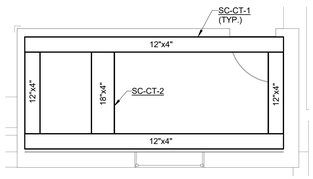
KEYNOTES:

1. COORDINATE WITH ELECTRICAL CONTRACTOR FOR POWER PROVISIONING.

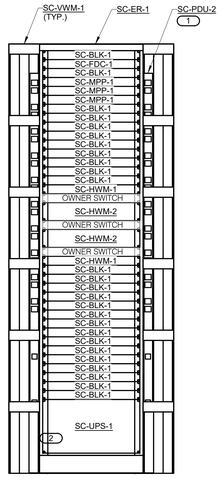


5 TELECOM ROOM PATHWAY TR-7-B09

1/4" = 1'-0"

NOTES:

1. LADDER RACK SHALL BE MOUNTED 6" ABOVE THE TOP OF THE TELECOM RACKS/CABINETS.



6 EQUIPMENT RACK ELEVATION TR-7-B09

1" = 1'-0"

NOTES:

1. ALL EQUIPMENT SHALL BE LOCATED IN ITS DESIGNATED LOCATION AS DEFINED BY THIS LAYOUT UNLESS OTHERWISE NOTED. ALL EQUIPMENT IS SIZED BY RACK UNITS (RU) ACCORDING TO THE BASIS OF DESIGN MANUFACTURER AND MODEL NUMBER. THE FINAL LAYOUT AND EQUIPMENT SIZE MAY VARY BASED ON THE FINAL SELECTION OF THE EQUIPMENT. ANY CHANGES TO THE LAYOUT SHOWN ABOVE SHALL BE COORDINATED WITH THE C.O.R. PRIOR TO INSTALLATION. REFER TO THE GENERAL TECHNOLOGY EQUIPMENT SCHEDULE AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.
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35% SCHEMATIC DESIGN SUBMISSION	5.17.21
65% DESIGN DEVELOPMENT SUBMISSION	6.15.21
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Revisions:	Date:

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Office of Construction and Facilities Management
VA U.S. Department of Veterans Affairs

Drawing Title: TECHNOLOGY ROOM ENLARGEMENTS	Phase: FINAL BID DOCUMENTS	Project Title: EHRM INFRASTRUCTURE UPGRADES - MILWAUKEE, WI	Project Number: 695-21-700
			Building Number:
Approved:	Sprinklered: FULLY SPRINKLERED	Location: 5000 W. NATIONAL AVENUE MILWAUKEE, WI	Drawing Number: TN305
		Issue Date: SEPTEMBER 05, 2025 / Checked: PHINIE / Drawn: MAIBEJ	

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Graphic Scale: 1/16" = 1'-0"
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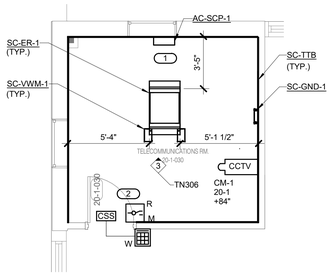


1 TELECOM ROOM ENLARGEMENT TR-20-1-030

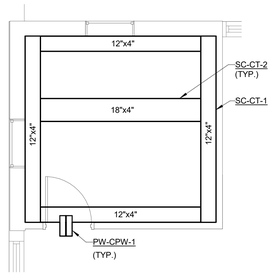
1/4" = 1'-0"

NOTES:

1. REFER TO 1/TN401 FOR BONDING BUS BAR DETAIL.
2. REFER TO 2/TN401 FOR TYPICAL TELECOM ROOM BONDING FLOW DIAGRAM.
3. REFER TO 3/TN401 FOR TECHNOLOGY BONDING RISER DIAGRAM.
4. CONTRACTOR SHALL COORDINATE CAMERA FIELD OF VIEW WITH CONTRACTING OFFICER PRIOR TO INSTALLATION.
5. CONTRACTOR TO PROVIDE 3' CLEAR ON EACH SIDE OF RACK AT A MINIMUM. IF ROOM SIZE IS NOT SUFFICIENT TO PROVIDE 3' ON EVERY SIDE OF RACK, THEN ONE SIDE CAN BE PLACED 1' FROM THE WALL. IF ROOM SIZE IS NOT SUFFICIENT FOR 3', 3', 3', 1', THEN CONTRACTOR SHALL NOTIFY A/E AND COR PRIOR TO ANY CONSTRUCTION BEING COMPLETED IN THE TR.

KEYNOTES:

1. COORDINATE WITH ELECTRICAL CONTRACTOR FOR POWER PROVISIONING.
2. DOOR POSITION SWITCH/TAMPER SWITCH ON INSIDE OF DOOR.

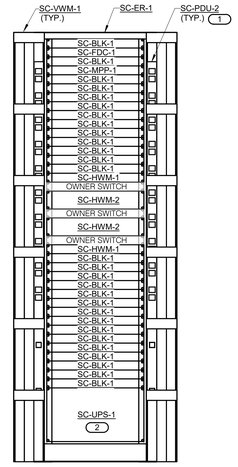


2 TELECOM ROOM PATHWAY LAYOUT TR-20-1-030

1/4" = 1'-0"

NOTES:

1. LADDER RACK SHALL BE MOUNTED 6" ABOVE THE TOP OF THE TELECOM RACKS/CABINETS.



3 EQUIPMENT RACK ELEVATION TR-20-1-030

NO SCALE

NOTES:

1. ALL EQUIPMENT SHALL BE LOCATED IN ITS DESIGNATED LOCATION AS DEFINED BY THIS LAYOUT UNLESS OTHERWISE NOTED. ALL EQUIPMENT IS SIZED BY RACK UNITS (RU) ACCORDING TO THE BASIS OF DESIGN MANUFACTURER AND MODEL NUMBER. THE FINAL LAYOUT AND EQUIPMENT SIZE MAY VARY BASED ON THE FINAL SELECTION OF THE EQUIPMENT. ANY CHANGES TO THE LAYOUT SHOWN ABOVE SHALL BE COORDINATED WITH THE C.O.R. PRIOR TO INSTALLATION. REFER TO THE GENERAL TECHNOLOGY EQUIPMENT SCHEDULE AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.
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KEYNOTES: (#)

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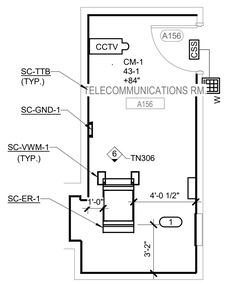

4 TELECOM ROOM ENLARGEMENT TR-43-A156

1/4" = 1'-0"

NOTES:

1. REFER TO 1/TN401 FOR BONDING BUS BAR DETAIL.
2. REFER TO 2/TN401 FOR TYPICAL TELECOM ROOM BONDING FLOW DIAGRAM.
3. REFER TO 3/TN401 FOR TECHNOLOGY BONDING RISER DIAGRAM.
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KEYNOTES:

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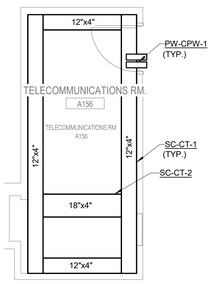
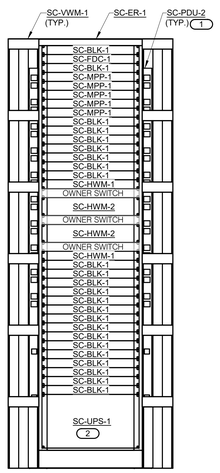


5 TELECOM ROOM PATHWAY LAYOUT TR-43-A156

1/4" = 1'-0"

NOTES:

1. LADDER RACK SHALL BE MOUNTED 6" ABOVE THE TOP OF THE TELECOM RACKS/CABINETS.



6 EQUIPMENT RACK ELEVATION TR-43-A156

NO SCALE

NOTES:

1. ALL EQUIPMENT SHALL BE LOCATED IN ITS DESIGNATED LOCATION AS DEFINED BY THIS LAYOUT UNLESS OTHERWISE NOTED. ALL EQUIPMENT IS SIZED BY RACK UNITS (RU) ACCORDING TO THE BASIS OF DESIGN MANUFACTURER AND MODEL NUMBER. THE FINAL LAYOUT AND EQUIPMENT SIZE MAY VARY BASED ON THE FINAL SELECTION OF THE EQUIPMENT. ANY CHANGES TO THE LAYOUT SHOWN ABOVE SHALL BE COORDINATED WITH THE C.O.R. PRIOR TO INSTALLATION. REFER TO THE GENERAL TECHNOLOGY EQUIPMENT SCHEDULE AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.
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Revisions:	Date:
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EXPIRES 12-31-25
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Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

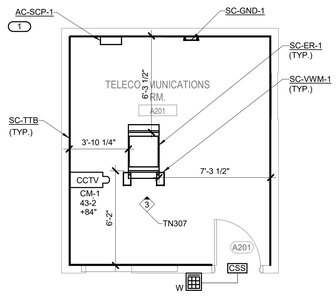
Drawing Title	Phase	Project Title	Project Number
TECHNOLOGY ROOM ENLARGEMENTS	FINAL BID DOCUMENTS	EHRM INFRASTRUCTURE UPGRADES - MILWAUKEE, WI	695-21-700
			Building Number
Approved:	Sprinklered: FULLY SPRINKLERED	Location: 5000 W. NATIONAL AVENUE MILWAUKEE, WI	Drawing Number: TN306
		Issue Date: SEPTEMBER 05, 2025 · Checked: PHINIE · Drawn: MAIBEJ	

VA FORM 08 - 6231

Autodesk Docs://OCFM East - Milwaukee EHRM (R24)/T24_18004375.03_VA MilwEHRM_C.rvt

9/3/2025 4:06:16 PM

Graphic Scale: 11/8" = 1'-0" · Graphic Scale: 1/8" = 1'-0" · Graphic Scale: 3/32" = 1'-0" · Graphic Scale: 1/4" = 1'-0" · Graphic Scale: 3/32" = 1'-0" · Graphic Scale: 1/2" = 1'-0" · Graphic Scale: 3/4" = 1'-0" · Graphic Scale: 1" = 1'-0" · Graphic Scale: 1 1/2" = 1'-0"



1 TELECOM ROOM ENLARGEMENT TR-43-A201

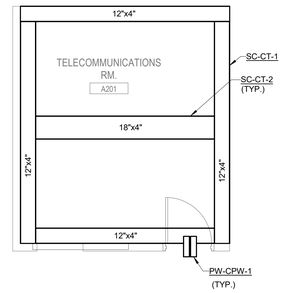
1/4" = 1'-0"

NOTES:

1. REFER TO 1/TN401 FOR BONDING BUS BAR DETAIL.
2. REFER TO 2/TN401 FOR TYPICAL TELECOM ROOM BONDING FLOW DIAGRAM.
3. REFER TO 3/TN401 FOR TECHNOLOGY BONDING RISER DIAGRAM.
4. CONTRACTOR SHALL COORDINATE CAMERA FIELD OF VIEW WITH CONTRACTING OFFICER PRIOR TO INSTALLATION.
5. ONTRACTOR TO PROVIDE 3' CLEAR ON EACH SIDE OF RACK AT A MINIMUM. IF ROOM SIZE IS NOT SUFFICIENT TO PROVIDE 3' ON EVERY SIDE OF RACK, THEN ONE SIDE CAN BE PLACED 1' FROM THE WALL. IF ROOM SIZE IS NOT SUFFICIENT FOR 3', 3', 3', 1', THEN CONTRACTOR SHALL NOTIFY A/E AND COR PRIOR TO ANY CONSTRUCTION BEING COMPLETED IN THE TR.

KEYNOTES:

1. COORDINATE WITH ELECTRICAL CONTRACTOR FOR POWER PROVISIONING.

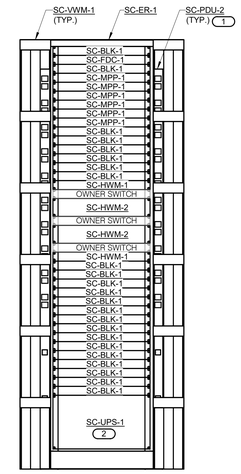


2 TELECOM ROOM PATHWAY TR-43-A201

1/4" = 1'-0"

NOTES:

1. LADDER RACK SHALL BE MOUNTED 6" ABOVE THE TOP OF THE TELECOM RACKS/CABINETS.



3 EQUIPMENT RACK ELEVATION TR-43-A201

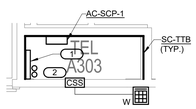
NO SCALE

NOTES:

1. ALL EQUIPMENT SHALL BE LOCATED IN ITS DESIGNATED LOCATION AS DEFINED BY THIS LAYOUT UNLESS OTHERWISE NOTED. ALL EQUIPMENT IS SIZED BY RACK UNITS (RU) ACCORDING TO THE BASIS OF DESIGN MANUFACTURER AND MODEL NUMBER. THE FINAL LAYOUT AND EQUIPMENT SIZE MAY VARY BASED ON THE FINAL SELECTION OF THE EQUIPMENT. ANY CHANGES TO THE LAYOUT SHOWN ABOVE SHALL BE COORDINATED WITH THE C.O.R. PRIOR TO INSTALLATION. REFER TO THE GENERAL TECHNOLOGY EQUIPMENT SCHEDULE AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.
2. FIBER DISTRIBUTION FOR LEG "A" SHALL BE ON THE LEFT SIDE OF THE FIBER PANEL, LEG "B" SHALL BE ON THE RIGHT SIDE.
3. RACK BONDING BUS BAR(SC-GND-2) TO BE LOCATED AT REAR OF RACK, RACK UNIT 45. RACK BONDING BAR SHALL BE DUAL LUG HOLE SUITABLE FOR #6 AWG BONDING CONDUCTORS

KEYNOTES: (#)

1. CONTRACTOR TO FURNISH AND INSTALL TWO (2) SC-PDU-2 PER RACK, MOUNTED AT THE REAR OF THE RACK, ONE (1) PER SIDE.
2. REFER TO ELECTRICAL PLANS AND SPECIFICATIONS FOR UPS INFORMATION.



4 TELECOM ROOM ENLARGEMENT TR-43-A303

1/4" = 1'-0"

NOTES:

1. THIS ROOM IS ONLY USED AS A PASS THROUGH FOR HORIZONTAL CABLES FROM THE THIRD FLOOR TO THE SECOND FLOOR.

KEYNOTES:

1. 12" WIDE VERTICAL LADDER RACK ATTACHED TO THE WALL FOR ATTACHING HORIZONTAL CABLES ROUTED FROM THIRD FLOOR TO SECOND FLOOR.
2. TWO (2) 4" CONDUIT SLEEVES TO FLOOR BELOW.

Revisions:	Date:
35% SCHEMATIC DESIGN SUBMISSION	5.17.21
65% DESIGN DEVELOPMENT SUBMISSION	6.15.21
65% DESIGN DEVELOPMENT RESUBMISSION	8.25.21

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ARCHITECT/ENGINEER OF RECORD

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DAVID LARSON
BICSI ID # 105098
Expires 12-31-25
RCDD

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: TECHNOLOGY ROOM ENLARGEMENTS

Approved:

Phase: FINAL BID DOCUMENTS

Sprinklered: FULLY SPRINKLERED

Project Title: EHRM INFRASTRUCTURE UPGRADES - MILWAUKEE, WI

Location: 5000 W. NATIONAL AVENUE MILWAUKEE, WI

Issue Date: SEPTEMBER 05, 2025

Checked: PHINIE

Drawn: MAIBEJ

Project Number: 695-21-700

Building Number:

Drawing Number: TN307

VA FORM 08 - 6231

Autodesk Docs://OCFM East - Milwaukee EHRM (R24)/T24_18004375.03_VA MilwEHRM_C.rvt

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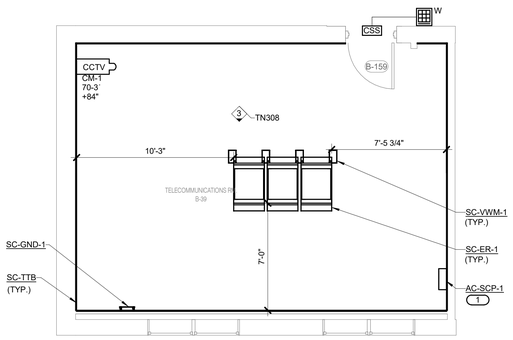


1 TELECOM ROOM ENLARGEMENT TR-70-B-159

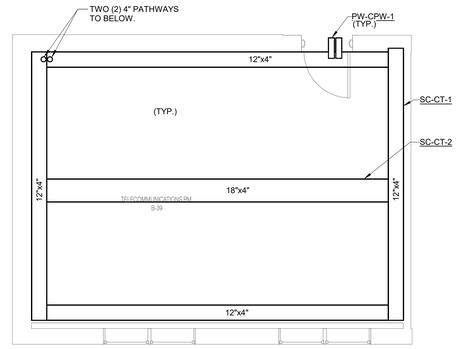
1/4" = 1'-0"

NOTES:

1. REFER TO 1/TN401 FOR BONDING BUS BAR DETAIL.
2. REFER TO 2/TN401 FOR TYPICAL TELECOM ROOM BONDING FLOW DIAGRAM.
3. REFER TO 3/TN401 FOR TECHNOLOGY BONDING RISER DIAGRAM.
4. CONTRACTOR SHALL COORDINATE CAMERA FIELD OF VIEW WITH CONTRACTING OFFICER PRIOR TO INSTALLATION.
5. DX-VERTIV ENCLOSURES ARE UTILIZED. REFER TO MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.
6. MEDICAL COLLEGE OF WISCONSIN (MCW) NETWORK SWITCH SHALL BE LOCATED IN THIS TR WITH FIBER CONNECTIVITY TO MCR. MCW SHALL INSTALL THEIR SWITCH. CONTRACTOR SHALL PROVIDE FIBER AND COPPER PATCH CORDS PER RISER DIAGRAM 1/TN503.
7. CONTRACTOR TO PROVIDE 3' CLEAR ON EACH SIDE OF RACK AT A MINIMUM. IF ROOM SIZE IS NOT SUFFICIENT TO PROVIDE 3' ON EVERY SIDE OF RACK, THEN ONE SIDE CAN BE PLACED 1' FROM THE WALL. IF ROOM SIZE IS NOT SUFFICIENT FOR 3', 3', 3', 1', THEN CONTRACTOR SHALL NOTIFY A/E AND COR PRIOR TO ANY CONSTRUCTION BEING COMPLETED IN THE TR.

KEYNOTES:

1. COORDINATE WITH ELECTRICAL CONTRACTOR FOR POWER PROVISIONING.

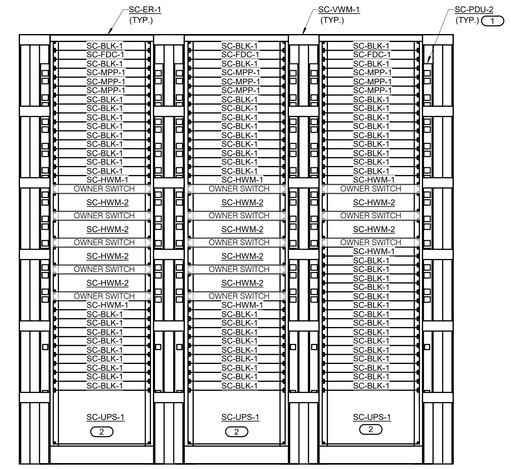


2 TELECOM ROOM PATHWAY TR-70-B-159

1/4" = 1'-0"

NOTES:

1. LADDER RACK SHALL BE MOUNTED 6" ABOVE THE TOP OF THE TELECOM RACKS/CABINETS.



3 EQUIPMENT RACK ELEVATION TR-70-B-159

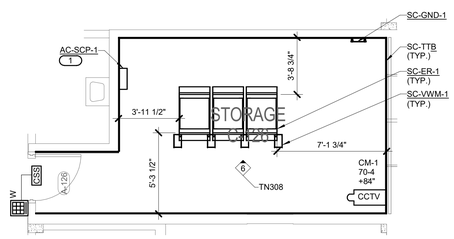
NO SCALE

NOTES:

1. ALL EQUIPMENT SHALL BE LOCATED IN ITS DESIGNATED LOCATION AS DEFINED BY THIS LAYOUT UNLESS OTHERWISE NOTED. ALL EQUIPMENT IS SIZED BY RACK UNITS (RU) ACCORDING TO THE BASIS OF DESIGN MANUFACTURER AND MODEL NUMBER. THE FINAL LAYOUT AND EQUIPMENT SIZE MAY VARY BASED ON THE FINAL SELECTION OF THE EQUIPMENT. ANY CHANGES TO THE LAYOUT SHOWN ABOVE SHALL BE COORDINATED WITH THE C.O.R. PRIOR TO INSTALLATION. REFER TO THE GENERAL TECHNOLOGY EQUIPMENT SCHEDULE AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.
2. FIBER DISTRIBUTION FOR LEG "A" SHALL BE ON THE LEFT SIDE OF THE FIBER PANEL, LEG "B" SHALL BE ON THE RIGHT SIDE.
3. RACK BONDING BUS BAR (SC-GND-2) TO BE LOCATED AT REAR OF RACK, RACK UNIT 45. RACK BONDING BAR SHALL BE DUAL LUG HOLE SUITABLE FOR #6 AWG BONDING CONDUCTORS

KEYNOTES: (#)

1. CONTRACTOR TO FURNISH AND INSTALL TWO (2) SC-PDU-2 PER RACK, MOUNTED AT THE REAR OF THE RACK, ONE (1) PER SIDE.
2. REFER TO ELECTRICAL PLANS AND SPECIFICATIONS FOR UPS INFORMATION.



4 TELECOM ROOM ENLARGEMENT TR-70-C-126

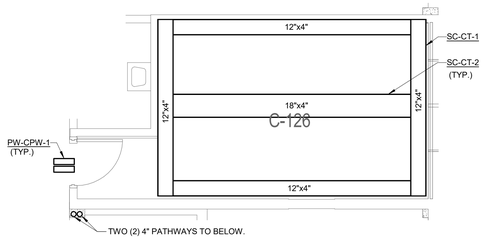
1/4" = 1'-0"

NOTES:

1. REFER TO 1/TN401 FOR BONDING BUS BAR DETAIL.
2. REFER TO 2/TN401 FOR TYPICAL TELECOM ROOM BONDING FLOW DIAGRAM.
3. REFER TO 3/TN401 FOR TECHNOLOGY BONDING RISER DIAGRAM.
4. CONTRACTOR SHALL COORDINATE CAMERA FIELD OF VIEW WITH CONTRACTING OFFICER PRIOR TO INSTALLATION.
5. DX-VERTIVE COMBINED ENCLOSED UNITS ARE UTILIZED. REFER TO MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.
6. MEDICAL COLLEGE OF WISCONSIN (MCW) NETWORK SWITCH SHALL BE LOCATED IN THIS TR WITH FIBER CONNECTIVITY TO MCR. MCW SHALL INSTALL THEIR SWITCH. CONTRACTOR SHALL PROVIDE FIBER AND COPPER PATCH CORDS PER RISER DIAGRAM 1/TN503.
7. CONTRACTOR TO PROVIDE 3' CLEAR ON EACH SIDE OF RACK AT A MINIMUM. IF ROOM SIZE IS NOT SUFFICIENT TO PROVIDE 3' ON EVERY SIDE OF RACK, THEN ONE SIDE CAN BE PLACED 1' FROM THE WALL. IF ROOM SIZE IS NOT SUFFICIENT FOR 3', 3', 3', 1', THEN CONTRACTOR SHALL NOTIFY A/E AND COR PRIOR TO ANY CONSTRUCTION BEING COMPLETED IN THE TR.

KEYNOTES:

1. COORDINATE WITH ELECTRICAL CONTRACTOR FOR POWER PROVISIONING.

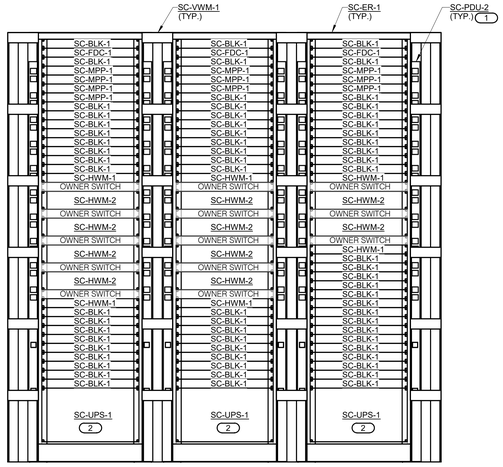


5 TELECOM ROOM PATHWAY TR-70-C-126

1/4" = 1'-0"

NOTES:

1. LADDER RACK SHALL BE MOUNTED 6" ABOVE THE TOP OF THE TELECOM RACKS/CABINETS.



6 EQUIPMENT RACK ELEVATION TR-70-C-126

NO SCALE

NOTES:

1. ALL EQUIPMENT SHALL BE LOCATED IN ITS DESIGNATED LOCATION AS DEFINED BY THIS LAYOUT UNLESS OTHERWISE NOTED. ALL EQUIPMENT IS SIZED BY RACK UNITS (RU) ACCORDING TO THE BASIS OF DESIGN MANUFACTURER AND MODEL NUMBER. THE FINAL LAYOUT AND EQUIPMENT SIZE MAY VARY BASED ON THE FINAL SELECTION OF THE EQUIPMENT. ANY CHANGES TO THE LAYOUT SHOWN ABOVE SHALL BE COORDINATED WITH THE C.O.R. PRIOR TO INSTALLATION. REFER TO THE GENERAL TECHNOLOGY EQUIPMENT SCHEDULE AND SPECIFICATIONS FOR ADDITIONAL INFORMATION
2. FIBER DISTRIBUTION FOR LEG "A" SHALL BE ON THE LEFT SIDE OF THE FIBER PANEL, LEG "B" SHALL BE ON THE RIGHT SIDE.
3. RACK BONDING BUS BAR (SC-GND-2) TO BE LOCATED AT REAR OF RACK, RACK UNIT 45. RACK BONDING BAR SHALL BE DUAL LUG HOLE SUITABLE FOR #6 AWG BONDING CONDUCTORS

KEYNOTES: (#)

1. CONTRACTOR TO FURNISH AND INSTALL TWO (2) SC-PDU-2 PER RACK, MOUNTED AT THE REAR OF THE RACK, ONE (1) PER SIDE.
2. REFER TO ELECTRICAL PLANS AND SPECIFICATIONS FOR UPS INFORMATION.

Revisions:	Date:
35% SCHEMATIC DESIGN SUBMISSION	5.17.21
65% DESIGN DEVELOPMENT SUBMISSION	6.15.21
65% DESIGN DEVELOPMENT RESUBMISSION	8.25.21

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Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: TECHNOLOGY ROOM ENLARGEMENTS	Phase: FINAL BID DOCUMENTS	Project Title: EHRM INFRASTRUCTURE UPGRADES - MILWAUKEE, WI	Project Number: 695-21-700
			Building Number:
Approved:	Sprinklered: FULLY SPRINKLERED	Location: 5000 W. NATIONAL AVENUE MILWAUKEE, WI	Drawing Number: TN308
		Issue Date: SEPTEMBER 05, 2025 / Checked: PHINIE / Drawn: MAIBEJ	

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Graphic Scale: 11'6" = 1'-0"
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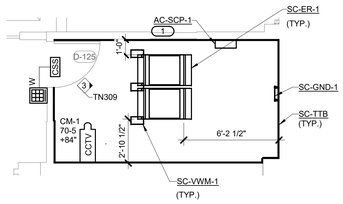
Graphic Scale: 1'2" = 1'-0"
Graphic Scale: 3'4" = 1'-0"
Graphic Scale: 1" = 1'-0"
Graphic Scale: 1'12" = 1'-0"



1 DATA ROOM ENLARGEMENT TR-70-D-125

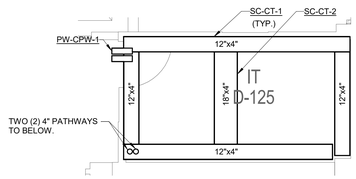
1/4" = 1'-0"

NOTES:

1. REFER TO 1/TN401 FOR BONDING BUS BAR DETAIL.
2. REFER TO 2/TN401 FOR TYPICAL TELECOM ROOM BONDING FLOW DIAGRAM.
3. REFER TO 3/TN401 FOR TECHNOLOGY BONDING RISER DIAGRAM.
4. CONTRACTOR SHALL COORDINATE CAMERA FIELD OF VIEW WITH CONTRACTING OFFICER PRIOR TO INSTALLATION.
5. DX-VERTIV ENCLOSURES ARE UTILIZED. REFER TO MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.
6. MEDICAL COLLEGE OF WISCONSIN (MCW) NETWORK SWITCH SHALL BE LOCATED IN THIS TR WITH FIBER CONNECTIVITY TO MCR. MCW SHALL INSTALL THEIR SWITCH. CONTRACTOR SHALL PROVIDE FIBER AND COPPER PATCH CORDS PER RISER DIAGRAM 1/TN503.
7. CONTRACTOR TO PROVIDE 3' CLEAR ON EACH SIDE OF RACK AT A MINIMUM. IF ROOM SIZE IS NOT SUFFICIENT TO PROVIDE 3' ON EVERY SIDE OF RACK, THEN ONE SIDE CAN BE PLACED 1' FROM THE WALL. IF ROOM SIZE IS NOT SUFFICIENT FOR 3', 3', 3', 1', THEN CONTRACTOR SHALL NOTIFY A/E AND COR PRIOR TO ANY CONSTRUCTION BEING COMPLETED IN THE TR.

KEYNOTES:

1. COORDINATE WITH ELECTRICAL CONTRACTOR FOR POWER PROVISIONING.

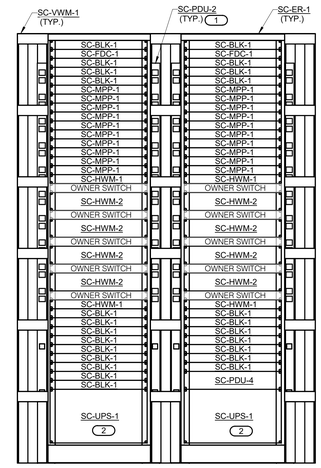


2 CABLE TRAY LAYOUT TR-70-D-125

1/4" = 1'-0"

NOTES:

1. LADDER RACK SHALL BE MOUNTED 6" ABOVE THE TOP OF THE TELECOM RACKS/CABINETS.



3 DATA RACK ELEVATION TR-70-D-125

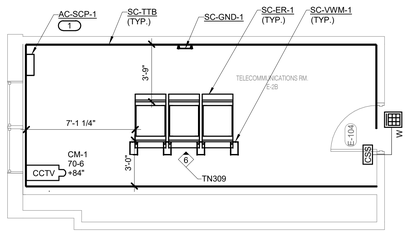
NO SCALE

NOTES:

1. ALL EQUIPMENT SHALL BE LOCATED IN ITS DESIGNATED LOCATION AS DEFINED BY THIS LAYOUT UNLESS OTHERWISE NOTED. ALL EQUIPMENT IS SIZED BY RACK UNITS (RU) ACCORDING TO THE BASIS OF DESIGN MANUFACTURER AND MODEL NUMBER. THE FINAL LAYOUT AND EQUIPMENT SIZE MAY VARY BASED ON THE FINAL SELECTION OF THE EQUIPMENT. ANY CHANGES TO THE LAYOUT SHOWN ABOVE SHALL BE COORDINATED WITH THE C.O.R. PRIOR TO INSTALLATION. REFER TO THE GENERAL TECHNOLOGY EQUIPMENT SCHEDULE AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.
2. FIBER DISTRIBUTION FOR LEG "A" SHALL BE ON THE LEFT SIDE OF THE FIBER PANEL, LEG "B" SHALL BE ON THE RIGHT SIDE.
3. RACK BONDING BUS BAR (SC-GND-2) TO BE LOCATED AT REAR OF RACK, RACK UNIT 45. RACK BONDING BAR SHALL BE DUAL LUG HOLE SUITABLE FOR #6 AWG BONDING CONDUCTORS

KEYNOTES: (#)

1. CONTRACTOR TO FURNISH AND INSTALL TWO (2) SC-PDU-2 PER RACK, MOUNTED AT THE REAR OF THE RACK, ONE (1) PER SIDE.
2. REFER TO ELECTRICAL PLANS AND SPECIFICATIONS FOR UPS INFORMATION.



4 DATA ROOM ENLARGEMENT TR-70-E-2B

1/4" = 1'-0"

NOTES:

1. REFER TO 1/TN401 FOR BONDING BUS BAR DETAIL.
2. REFER TO 2/TN401 FOR TYPICAL TELECOM ROOM BONDING FLOW DIAGRAM.
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KEYNOTES:

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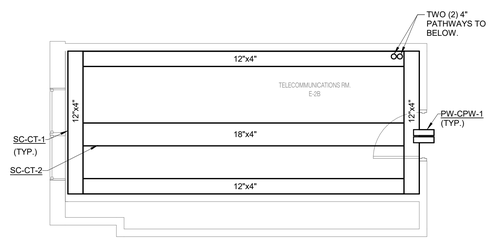
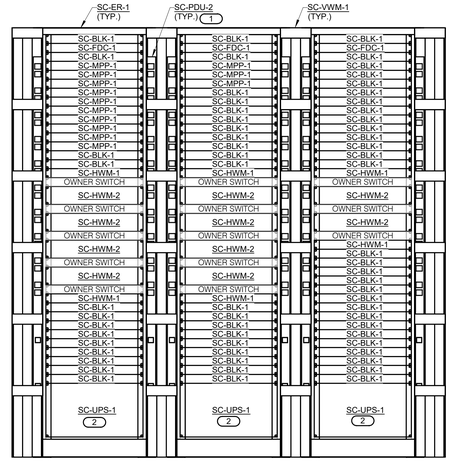


5 CABLE TRAY LAYOUT TR-70-E-2B

1/4" = 1'-0"

NOTES:

1. LADDER RACK SHALL BE MOUNTED 6" ABOVE THE TOP OF THE TELECOM RACKS/CABINETS.



6 DATA RACK ELEVATION TR-70-E-104

NO SCALE

NOTES:

1. ALL EQUIPMENT SHALL BE LOCATED IN ITS DESIGNATED LOCATION AS DEFINED BY THIS LAYOUT UNLESS OTHERWISE NOTED. ALL EQUIPMENT IS SIZED BY RACK UNITS (RU) ACCORDING TO THE BASIS OF DESIGN MANUFACTURER AND MODEL NUMBER. THE FINAL LAYOUT AND EQUIPMENT SIZE MAY VARY BASED ON THE FINAL SELECTION OF THE EQUIPMENT. ANY CHANGES TO THE LAYOUT SHOWN ABOVE SHALL BE COORDINATED WITH THE C.O.R. PRIOR TO INSTALLATION. REFER TO THE GENERAL TECHNOLOGY EQUIPMENT SCHEDULE AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.
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KEYNOTES: (#)

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Revisions:	Date:

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Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: TECHNOLOGY ROOM ENLARGEMENTS

Approved:

Phase: FINAL BID DOCUMENTS

Sprinklered: FULLY SPRINKLERED

Project Title: EHRM INFRASTRUCTURE UPGRADES - MILWAUKEE, WI

Location: 5000 W. NATIONAL AVENUE MILWAUKEE, WI

Issue Date: SEPTEMBER 05, 2025

Checked: PHINIE

Drawn: MAIBEJ

Project Number: 695-21-700

Building Number:

Drawing Number: TN309

VA FORM 08 - 6231

Autodesk Docs://OCFM East - Milwaukee EHRM (R24)/T24_18004375.03_VA MilwEHRM_C.rvt

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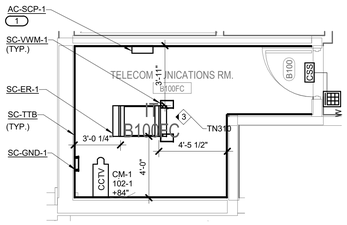


1 TELECOM ROOM ENLARGEMENT TR-102-B100FC

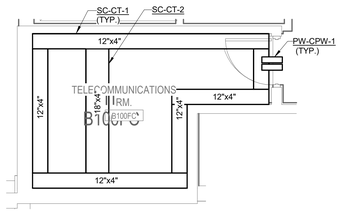
1/4" = 1'-0"

NOTES:

1. REFER TO 1/TN401 FOR BONDING BUS BAR DETAIL.
2. REFER TO 2/TN401 FOR TYPICAL TELECOM ROOM BONDING FLOW DIAGRAM.
3. REFER TO 3/TN401 FOR TECHNOLOGY BONDING RISER DIAGRAM.
4. CONTRACTOR SHALL COORDINATE CAMERA FIELD OF VIEW WITH CONTRACTING OFFICER PRIOR TO INSTALLATION.
5. DX-VERTIV ENCLOSURES ARE UTILIZED. REFER TO MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.
6. CONTRACTOR TO PROVIDE 3' CLEAR ON EACH SIDE OF RACK AT A MINIMUM. IF ROOM SIZE IS NOT SUFFICIENT TO PROVIDE 3' ON EVERY SIDE OF RACK, THEN ONE SIDE CAN BE PLACED 1' FROM THE WALL. IF ROOM SIZE IS NOT SUFFICIENT FOR 3', 3', 3', 1', THEN CONTRACTOR SHALL NOTIFY A/E AND COR PRIOR TO ANY CONSTRUCTION BEING COMPLETED IN THE TR.

KEYNOTES:

1. COORDINATE WITH ELECTRICAL CONTRACTOR FOR POWER PROVISIONING.

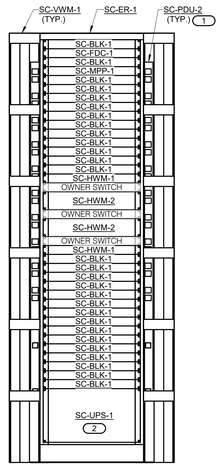


2 TELECOM ROOM PATHWAY TR-102-B100FC

1/4" = 1'-0"

NOTES:

1. LADDER RACK SHALL BE MOUNTED 6" ABOVE THE TOP OF THE TELECOM RACKS/CABINETS.



3 EQUIPMENT RACK ELEVATION TR-102-B100FC

1" = 1'-0"

NOTES:

1. ALL EQUIPMENT SHALL BE LOCATED IN ITS DESIGNATED LOCATION AS DEFINED BY THIS LAYOUT UNLESS OTHERWISE NOTED. ALL EQUIPMENT IS SIZED BY RACK UNITS (RU) ACCORDING TO THE BASIS OF DESIGN MANUFACTURER AND MODEL NUMBER. THE FINAL LAYOUT AND EQUIPMENT SIZE MAY VARY BASED ON THE FINAL SELECTION OF THE EQUIPMENT. ANY CHANGES TO THE LAYOUT SHOWN ABOVE SHALL BE COORDINATED WITH THE C.O.R. PRIOR TO INSTALLATION. REFER TO THE GENERAL TECHNOLOGY EQUIPMENT SCHEDULE AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.
2. FIBER DISTRIBUTION FOR LEG "A" SHALL BE ON THE LEFT SIDE OF THE FIBER PANEL, LEG "B" SHALL BE ON THE RIGHT SIDE.
3. RACK BONDING BUS BAR (SC-GND-2) TO BE LOCATED AT REAR OF RACK, RACK UNIT 45. RACK BONDING BAR SHALL BE DUAL LUG HOLE SUITABLE FOR #6 AWG BONDING CONDUCTORS

KEYNOTES: #

1. CONTRACTOR TO FURNISH AND INSTALL TWO (2) SC-PDU-2 PER RACK, MOUNTED AT THE REAR OF THE RACK, ONE (1) PER SIDE.
2. REFER TO ELECTRICAL PLANS AND SPECIFICATIONS FOR UPS INFORMATION.

Revisions:	Date:
35% SCHEMATIC DESIGN SUBMISSION	5.17.21
65% DESIGN DEVELOPMENT SUBMISSION	6.15.21
65% DESIGN DEVELOPMENT RESUBMISSION	8.25.21

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PROJECT #18004375.03

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Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

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Approved:

Phase: FINAL BID DOCUMENTS

Sprinklered: FULLY SPRINKLERED

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Location: 5000 W. NATIONAL AVENUE MILWAUKEE, WI

Issue Date: SEPTEMBER 05, 2025 | Checked: PHINIE | Drawn: MAIBEJ

Project Number: 695-21-700

Building Number:

Drawing Number: TN310

VA FORM 08 - 6231

Autodesk Docs://OCFM East - Milwaukee EHRM (R24)/T24_18004375.03_VA MilwEHRM_C.rvt

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Graphic Scale: 1/16" = 1'-0"
Graphic Scale: 1/8" = 1'-0"
Graphic Scale: 3/32" = 1'-0"
Graphic Scale: 1/4" = 1'-0"
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Graphic Scale: 1" = 1'-0"
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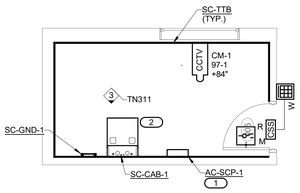


1 TELECOM ROOM ENLARGEMENT TE-97-005

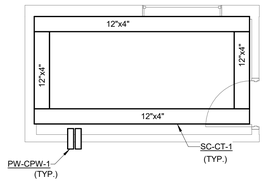
1/4" = 1'-0"

NOTES:

1. REFER TO 1/TN401 FOR BONDING BUS BAR DETAIL.
2. REFER TO 2/TN401 FOR TYPICAL TELECOM ROOM BONDING FLOW DIAGRAM.
3. REFER TO 3/TN401 FOR TECHNOLOGY BONDING RISER DIAGRAM.
4. CONTRACTOR SHALL COORDINATE CAMERA FIELD OF VIEW WITH CONTRACTING OFFICER PRIOR TO INSTALLATION.

KEYNOTES: #

1. COORDINATE WITH ELECTRICAL CONTRACTOR FOR POWER PROVISIONING.
2. DOOR POSITION SWITCH/TAMPER SWITCH ON INSIDE OF DOOR.

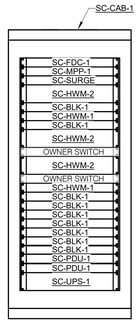


2 TELECOM ROOM PATHWAY TE-97-005

1/4" = 1'-0"

NOTES:

1. LADDER RACK SHALL BE MOUNTED 6" ABOVE THE TOP OF THE TELECOM RACKS/CABINETS.

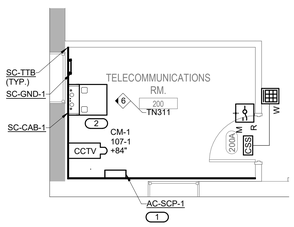


3 EQUIPMENT CABINET ELEVATION TE-97-005

NO SCALE

NOTES:

1. ALL EQUIPMENT SHALL BE LOCATED IN ITS DESIGNATED LOCATION AS DEFINED BY THIS LAYOUT UNLESS OTHERWISE NOTED. ALL EQUIPMENT IS SIZED BY RACK UNITS (RU) ACCORDING TO THE BASIS OF DESIGN MANUFACTURER AND MODEL NUMBER. THE FINAL LAYOUT AND EQUIPMENT SIZE MAY VARY BASED ON THE FINAL SELECTION OF THE EQUIPMENT. ANY CHANGES TO THE LAYOUT SHOWN ABOVE SHALL BE COORDINATED WITH THE C.O.R. PRIOR TO INSTALLATION. REFER TO THE GENERAL TECHNOLOGY EQUIPMENT SCHEDULE AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.
2. FIBER DISTRIBUTION FOR LEG "A" SHALL BE ON THE LEFT SIDE OF THE FIBER PANEL, LEG "B" SHALL BE ON THE RIGHT SIDE.
3. RACK BONDING BUS BAR (SC-GND-2), RBB, SHALL BE MOUNTED AT THE REAR, TOP OF THE CABINET. REFER TO SPECIFICATION SECTION 270526 FOR ADDITIONAL INFORMATION.



4 TELECOM ENLARGEMENT TE-107-200

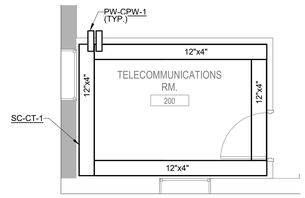
1/4" = 1'-0"

NOTES:

1. REFER TO 1/TN401 FOR BONDING BUS BAR DETAIL.
2. REFER TO 2/TN401 FOR TYPICAL TELECOM ROOM BONDING FLOW DIAGRAM.
3. REFER TO 3/TN401 FOR TECHNOLOGY BONDING RISER DIAGRAM.
4. CONTRACTOR SHALL COORDINATE CAMERA FIELD OF VIEW WITH CONTRACTING OFFICER PRIOR TO INSTALLATION.

KEYNOTES: #

1. COORDINATE WITH ELECTRICAL CONTRACTOR FOR POWER PROVISIONING.
2. DOOR POSITION SWITCH/TAMPER SWITCH ON INSIDE OF DOOR.

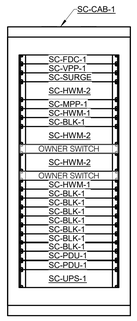


5 TELECOM ROOM PATHWAY TE-107-200

1/4" = 1'-0"

NOTES:

1. LADDER RACK SHALL BE MOUNTED 6" ABOVE THE TOP OF THE TELECOM RACKS/CABINETS.



6 EQUIPMENT CABINET ELEVATION TE-107-200

NO SCALE

NOTES:

1. ALL EQUIPMENT SHALL BE LOCATED IN ITS DESIGNATED LOCATION AS DEFINED BY THIS LAYOUT UNLESS OTHERWISE NOTED. ALL EQUIPMENT IS SIZED BY RACK UNITS (RU) ACCORDING TO THE BASIS OF DESIGN MANUFACTURER AND MODEL NUMBER. THE FINAL LAYOUT AND EQUIPMENT SIZE MAY VARY BASED ON THE FINAL SELECTION OF THE EQUIPMENT. ANY CHANGES TO THE LAYOUT SHOWN ABOVE SHALL BE COORDINATED WITH THE C.O.R. PRIOR TO INSTALLATION. REFER TO THE GENERAL TECHNOLOGY EQUIPMENT SCHEDULE AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.
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3. RACK BONDING BUS BAR (SC-GND-2), RBB, SHALL BE MOUNTED AT THE REAR, TOP OF THE CABINET. REFER TO SPECIFICATION SECTION 270526 FOR ADDITIONAL INFORMATION.

Revisions:	Date:
35% SCHEMATIC DESIGN SUBMISSION	5.17.21
65% DESIGN DEVELOPMENT SUBMISSION	6.15.21
65% DESIGN DEVELOPMENT RESUBMISSION	8.25.21

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Phase: FINAL BID DOCUMENTS

Sprinklered: FULLY SPRINKLERED

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Issue Date: SEPTEMBER 05, 2025

Checked: PHINIE

Drawn: MAIBEJ

Project Number: 695-21-700

Building Number:

Drawing Number: TN311

VA FORM 08 - 6231

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Graphic Scale: 1'8" = 1'-0" 0' 4' 8' 16'
Graphic Scale: 3'32" = 1'-0" 0' 4" 8" 1' 2'
Graphic Scale: 1'4" = 1'-0" 0' 1' 2' 4'
Graphic Scale: 3'8" = 1'-0" 0' 1' 2' 4'
Graphic Scale: 1'2" = 1'-0" 0' 1' 2' 4'
Graphic Scale: 3'4" = 1'-0" 0' 6" 1' 2'
Graphic Scale: 1" = 1'-0" 0' 6" 1' 2'
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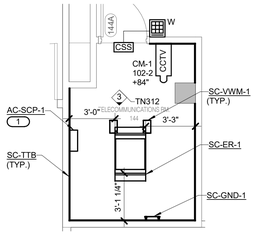


1 TELECOM ROOM ENLARGEMENT TR-102-144

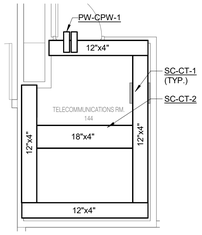
1/4" = 1'-0"

NOTES:

1. REFER TO 1/TN401 FOR BONDING BUS BAR DETAIL.
2. REFER TO 2/TN401 FOR TYPICAL TELECOM ROOM BONDING FLOW DIAGRAM.
3. REFER TO 3/TN401 FOR TECHNOLOGY BONDING RISER DIAGRAM.
4. CONTRACTOR SHALL COORDINATE CAMERA FIELD OF VIEW WITH CONTRACTING OFFICER PRIOR TO INSTALLATION.
5. DX-VERTIV ENCLOSURES ARE UTILIZED. REFER TO MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.
6. CONTRACTOR TO PROVIDE 3' CLEAR ON EACH SIDE OF RACK AT A MINIMUM. IF ROOM SIZE IS NOT SUFFICIENT TO PROVIDE 3' ON EVERY SIDE OF RACK, THEN ONE SIDE CAN BE PLACED 1' FROM THE WALL. IF ROOM SIZE IS NOT SUFFICIENT FOR 3', 3', 3', 1', THEN CONTRACTOR SHALL NOTIFY A/E AND COR PRIOR TO ANY CONSTRUCTION BEING COMPLETED IN THE TR.

KEYNOTES:

1. COORDINATE WITH ELECTRICAL CONTRACTOR FOR POWER PROVISIONING.

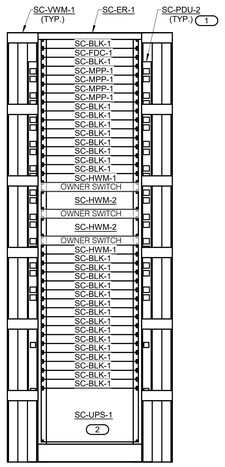


2 TELECOM ROOM PATHWAY TR-102-144

1/4" = 1'-0"

NOTES:

1. LADDER RACK SHALL BE MOUNTED 6" ABOVE THE TOP OF THE TELECOM RACKS/CABINETS.



3 EQUIPMENT RACK ELEVATION TR-102-144

1" = 1'-0"

NOTES:

1. ALL EQUIPMENT SHALL BE LOCATED IN ITS DESIGNATED LOCATION AS DEFINED BY THIS LAYOUT UNLESS OTHERWISE NOTED. ALL EQUIPMENT IS SIZED BY RACK UNITS (RU) ACCORDING TO THE BASIS OF DESIGN MANUFACTURER AND MODEL NUMBER. THE FINAL LAYOUT AND EQUIPMENT SIZE MAY VARY BASED ON THE FINAL SELECTION OF THE EQUIPMENT. ANY CHANGES TO THE LAYOUT SHOWN ABOVE SHALL BE COORDINATED WITH THE C.O.R. PRIOR TO INSTALLATION. REFER TO THE GENERAL TECHNOLOGY EQUIPMENT SCHEDULE AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.
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3. RACK BONDING BUS BAR (SC-GND-2) TO BE LOCATED AT REAR OF RACK, RACK UNIT 45. RACK BONDING BAR SHALL BE DUAL LUG HOLE SUITABLE FOR #6 AWG BONDING CONDUCTORS.

KEYNOTES: 6

1. CONTRACTOR TO FURNISH AND INSTALL TWO (2) SC-PDU-2 PER RACK, MOUNTED AT THE REAR OF THE RACK, ONE (1) PER SIDE.
2. REFER TO ELECTRICAL PLANS AND SPECIFICATIONS FOR UPS INFORMATION.

35% SCHEMATIC DESIGN SUBMISSION	5.17.21
65% DESIGN DEVELOPMENT SUBMISSION	6.15.21
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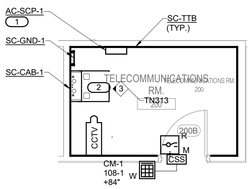

1 TELECOM ROOM ENLARGEMENT TE-108-200

1/4" = 1'-0"

NOTES:

1. REFER TO 1/TN401 FOR BONDING BUS BAR DETAIL.
2. REFER TO 2/TN401 FOR TYPICAL TELECOM ROOM BONDING FLOW DIAGRAM.
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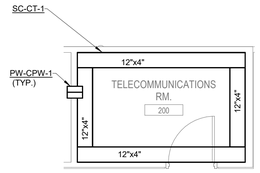
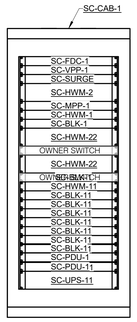


2 TELECOM ROOM PATHWAY TE-108-200

1/4" = 1'-0"

NOTES:

1. LADDER RACK SHALL BE MOUNTED 6" ABOVE THE TOP OF THE TELECOM RACKS/CABINETS.



3 EQUIPMENT CABINET ELEVATION TE-108-200

1" = 1'-0"

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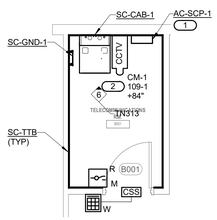
3. RACK BONDING BUS BAR (SC-GND-2), RBB, SHALL BE MOUNTED AT THE REAR, TOP OF THE CABINET. REFER TO SPECIFICATION SECTION 270526 FOR ADDITIONAL INFORMATION.



4 TELECOM ROOM ENLARGEMENT TE-109-B001

1/4" = 1'-0"

NOTES:

1. REFER TO 1/TN401 FOR BONDING BUS BAR DETAIL.
2. REFER TO 2/TN401 FOR TYPICAL TELECOM ROOM BONDING FLOW DIAGRAM.
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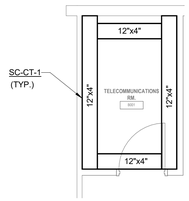
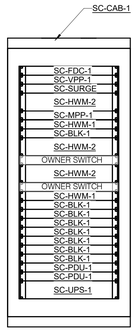


5 TELECOM ROOM PATHWAY TE-109-B001

1/4" = 1'-0"

NOTES:

1. LADDER RACK SHALL BE MOUNTED 6" ABOVE THE TOP OF THE TELECOM RACKS/CABINETS.



6 EQUIPMENT CABINET ELEVATION TE-109-B001

NO SCALE

NOTES:

1. ALL EQUIPMENT SHALL BE LOCATED IN ITS DESIGNATED LOCATION AS DEFINED BY THIS LAYOUT UNLESS OTHERWISE NOTED. ALL EQUIPMENT IS SIZED BY RACK UNITS (RU) ACCORDING TO THE BASIS OF DESIGN MANUFACTURER AND MODEL NUMBER. THE FINAL LAYOUT AND EQUIPMENT SIZE MAY VARY BASED ON THE FINAL SELECTION OF THE EQUIPMENT. ANY CHANGES TO THE LAYOUT SHOWN ABOVE SHALL BE COORDINATED WITH THE C.O.R. PRIOR TO INSTALLATION. REFER TO THE GENERAL TECHNOLOGY EQUIPMENT SCHEDULE AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.
2. FIBER DISTRIBUTION FOR LEG "A" SHALL BE ON THE LEFT SIDE OF THE FIBER PANEL, LEG "B" SHALL BE ON THE RIGHT SIDE.
3. RACK BONDING BUS BAR (SC-GND-2), RBB, SHALL BE MOUNTED AT THE REAR, TOP OF THE CABINET. REFER TO SPECIFICATION SECTION 270526 FOR ADDITIONAL INFORMATION.

35% SCHEMATIC DESIGN SUBMISSION	5.17.21
65% DESIGN DEVELOPMENT SUBMISSION	6.15.21
65% DESIGN DEVELOPMENT RESUBMISSION	8.25.21
Revisions:	Date:

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Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: TECHNOLOGY ROOM ENLARGEMENTS	Phase: FINAL BID DOCUMENTS	Project Title: EHRM INFRASTRUCTURE UPGRADES - MILWAUKEE, WI	Project Number: 695-21-700
			Building Number:
Approved:	Sprinklered: FULLY SPRINKLERED	Location: 5000 W. NATIONAL AVENUE MILWAUKEE, WI	Drawing Number: TN313
		Issue Date: SEPTEMBER 05, 2025 / Checked: PHINIE / Drawn: MAIBEJ	

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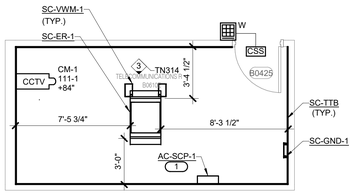
Graphic Scale: 1/16" = 1'-0" 0' 8' 16' 32'
Graphic Scale: 1/8" = 1'-0" 0' 4' 8' 16'
Graphic Scale: 3/32" = 1'-0" 0' 4" 8" 1' 2'
Graphic Scale: 1/4" = 1'-0" 0' 1' 2' 4'
Graphic Scale: 3/8" = 1'-0" 0' 1' 2' 4'
Graphic Scale: 1/2" = 1'-0" 0' 1' 2' 4'
Graphic Scale: 3/4" = 1'-0" 0' 6" 1' 2'
Graphic Scale: 1" = 1'-0" 0' 6" 1' 2'
Graphic Scale: 1 1/2" = 1'-0" 0' 3" 6" 1' 1'6"



1 TELECOM ROOM ENLARGEMENT TR-111-B0610E

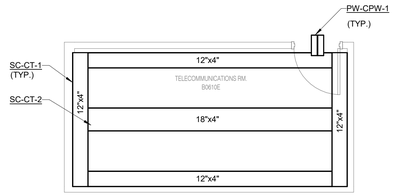
1/4" = 1'-0"

NOTES:

1. REFER TO 1/TN401 FOR BONDING BUS BAR DETAIL.
2. REFER TO 2/TN401 FOR TYPICAL TELECOM ROOM BONDING FLOW DIAGRAM.
3. REFER TO 3/TN401 FOR TECHNOLOGY BONDING RISER DIAGRAM.
4. CONTRACTOR SHALL COORDINATE CAMERA FIELD OF VIEW WITH CONTRACTING OFFICER PRIOR TO INSTALLATION.
5. CONTRACTOR TO PROVIDE 3' CLEAR ON EACH SIDE OF RACK AT A MINIMUM. IF ROOM SIZE IS NOT SUFFICIENT TO PROVIDE 3' ON EVERY SIDE OF RACK, THEN ONE SIDE CAN BE PLACED 1' FROM THE WALL. IF ROOM SIZE IS NOT SUFFICIENT FOR 3', 3', 3', 1', THEN CONTRACTOR SHALL NOTIFY A/E AND COR PRIOR TO ANY CONSTRUCTION BEING COMPLETED IN THE TR.

KEYNOTES:

1. COORDINATE WITH ELECTRICAL CONTRACTOR FOR POWER PROVISIONING.

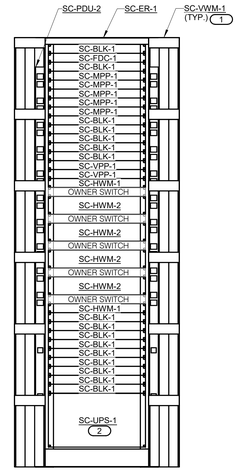


2 TELECOM ROOM PATHWAY TR-111-B0610E

1/4" = 1'-0"

NOTES:

1. LADDER RACK SHALL BE MOUNTED 6" ABOVE THE TOP OF THE TELECOM RACKS/CABINETS.



3 EQUIPMENT RACK ELEVATION TR-111-B0610E

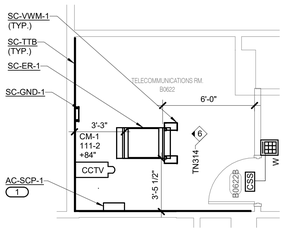
NO SCALE

NOTES:

1. ALL EQUIPMENT SHALL BE LOCATED IN ITS DESIGNATED LOCATION AS DEFINED BY THIS LAYOUT UNLESS OTHERWISE NOTED. ALL EQUIPMENT IS SIZED BY RACK UNITS (RU) ACCORDING TO THE BASIS OF DESIGN MANUFACTURER AND MODEL NUMBER. THE FINAL LAYOUT AND EQUIPMENT SIZE MAY VARY BASED ON THE FINAL SELECTION OF THE EQUIPMENT. ANY CHANGES TO THE LAYOUT SHOWN ABOVE SHALL BE COORDINATED WITH THE C.O.R. PRIOR TO INSTALLATION. REFER TO THE GENERAL TECHNOLOGY EQUIPMENT SCHEDULE AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.
2. FIBER DISTRIBUTION FOR LEG "A" SHALL BE ON THE LEFT SIDE OF THE FIBER PANEL, LEG "B" SHALL BE ON THE RIGHT SIDE.
3. RACK BONDING BUS BAR (SC-GND-2) TO BE LOCATED AT REAR OF RACK, RACK UNIT 45. RACK BONDING BAR SHALL BE DUAL LUG HOLE SUITABLE FOR #6 AWG BONDING CONDUCTORS

KEYNOTES: #

1. CONTRACTOR TO FURNISH AND INSTALL TWO (2) SC-PDU-2 PER RACK, MOUNTED AT THE REAR OF THE RACK, ONE (1) PER SIDE.
2. REFER TO ELECTRICAL PLANS AND SPECIFICATIONS FOR UPS INFORMATION.



4 TELECOM ROOM ENLARGEMENT TR-111-B0622

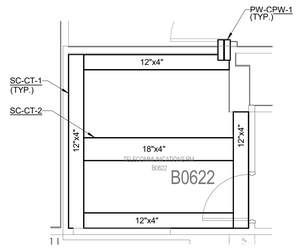
1/4" = 1'-0"

NOTES:

1. REFER TO 1/TN401 FOR BONDING BUS BAR DETAIL.
2. REFER TO 2/TN401 FOR TYPICAL TELECOM ROOM BONDING FLOW DIAGRAM.
3. REFER TO 3/TN401 FOR TECHNOLOGY BONDING RISER DIAGRAM.
4. CONTRACTOR SHALL COORDINATE CAMERA FIELD OF VIEW WITH CONTRACTING OFFICER PRIOR TO INSTALLATION.
5. CONTRACTOR TO PROVIDE 3' CLEAR ON EACH SIDE OF RACK AT A MINIMUM. IF ROOM SIZE IS NOT SUFFICIENT TO PROVIDE 3' ON EVERY SIDE OF RACK, THEN ONE SIDE CAN BE PLACED 1' FROM THE WALL. IF ROOM SIZE IS NOT SUFFICIENT FOR 3', 3', 3', 1', THEN CONTRACTOR SHALL NOTIFY A/E AND COR PRIOR TO ANY CONSTRUCTION BEING COMPLETED IN THE TR.

KEYNOTES:

1. COORDINATE WITH ELECTRICAL CONTRACTOR FOR POWER PROVISIONING.

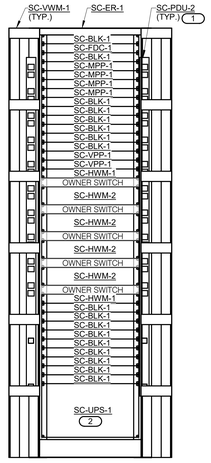


5 TELECOM ROOM PATHWAY TR-111-B0622

1/4" = 1'-0"

NOTES:

1. LADDER RACK SHALL BE MOUNTED 6" ABOVE THE TOP OF THE TELECOM RACKS/CABINETS.



6 EQUIPMENT RACK ELEVATION TR-111-B0622

NO SCALE

NOTES:

1. ALL EQUIPMENT SHALL BE LOCATED IN ITS DESIGNATED LOCATION AS DEFINED BY THIS LAYOUT UNLESS OTHERWISE NOTED. ALL EQUIPMENT IS SIZED BY RACK UNITS (RU) ACCORDING TO THE BASIS OF DESIGN MANUFACTURER AND MODEL NUMBER. THE FINAL LAYOUT AND EQUIPMENT SIZE MAY VARY BASED ON THE FINAL SELECTION OF THE EQUIPMENT. ANY CHANGES TO THE LAYOUT SHOWN ABOVE SHALL BE COORDINATED WITH THE C.O.R. PRIOR TO INSTALLATION. REFER TO THE GENERAL TECHNOLOGY EQUIPMENT SCHEDULE AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.
2. FIBER DISTRIBUTION FOR LEG "A" SHALL BE ON THE LEFT SIDE OF THE FIBER PANEL, LEG "B" SHALL BE ON THE RIGHT SIDE.
3. RACK BONDING BUS BAR (SC-GND-2) TO BE LOCATED AT REAR OF RACK, RACK UNIT 45. RACK BONDING BAR SHALL BE DUAL LUG HOLE SUITABLE FOR #6 AWG BONDING CONDUCTORS

KEYNOTES: #

1. CONTRACTOR TO FURNISH AND INSTALL TWO (2) SC-PDU-2 PER RACK, MOUNTED AT THE REAR OF THE RACK, ONE (1) PER SIDE.
2. REFER TO ELECTRICAL PLANS AND SPECIFICATIONS FOR UPS INFORMATION.

Revisions:	Date:
35% SCHEMATIC DESIGN SUBMISSION	5.17.21
65% DESIGN DEVELOPMENT SUBMISSION	6.15.21
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Drawn: MAIBEJ
Drawing Number: TN314

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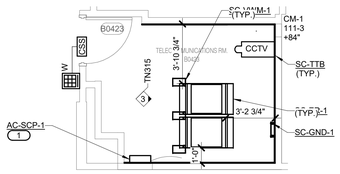


1 TELECOM ROOM ENLARGEMENT TR-111-B0423

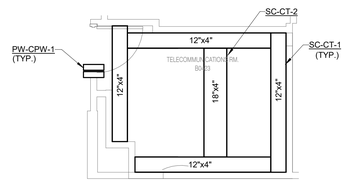
1/4" = 1'-0"

NOTES:

1. REFER TO 1/TN401 FOR BONDING BUS BAR DETAIL.
2. REFER TO 2/TN401 FOR TYPICAL TELECOM ROOM BONDING FLOW DIAGRAM.
3. REFER TO 3/TN401 FOR TECHNOLOGY BONDING RISER DIAGRAM.
4. CONTRACTOR SHALL COORDINATE CAMERA FIELD OF VIEW WITH CONTRACTING OFFICER PRIOR TO INSTALLATION.
5. CONTRACTOR TO PROVIDE 3' CLEAR ON EACH SIDE OF RACK AT A MINIMUM. IF ROOM SIZE IS NOT SUFFICIENT TO PROVIDE 3' ON EVERY SIDE OF RACK, THEN ONE SIDE CAN BE PLACED 1' FROM THE WALL. IF ROOM SIZE IS NOT SUFFICIENT FOR 3', 3', 3', 1', THEN CONTRACTOR SHALL NOTIFY A/E AND COR PRIOR TO ANY CONSTRUCTION BEING COMPLETED IN THE TR.

KEYNOTES:

1. COORDINATE WITH ELECTRICAL CONTRACTOR FOR POWER PROVISIONING.

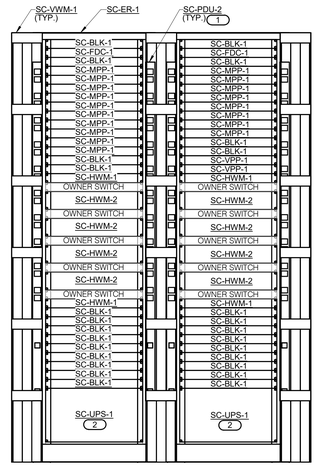


2 TELECOM ROOM PATHWAY TR-111-B0423

1/4" = 1'-0"

NOTES:

1. LADDER RACK SHALL BE MOUNTED 6" ABOVE THE TOP OF THE TELECOM RACKS/CABINETS.



3 EQUIPMENT RACK ELEVATION TR-111-B0423

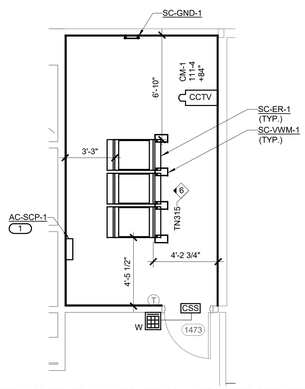
NO SCALE

NOTES:

1. ALL EQUIPMENT SHALL BE LOCATED IN ITS DESIGNATED LOCATION AS DEFINED BY THIS LAYOUT UNLESS OTHERWISE NOTED. ALL EQUIPMENT IS SIZED BY RACK UNITS (RU) ACCORDING TO THE BASIS OF DESIGN MANUFACTURER AND MODEL NUMBER. THE FINAL LAYOUT AND EQUIPMENT SIZE MAY VARY BASED ON THE FINAL SELECTION OF THE EQUIPMENT. ANY CHANGES TO THE LAYOUT SHOWN ABOVE SHALL BE COORDINATED WITH THE C.O.R. PRIOR TO INSTALLATION. REFER TO THE GENERAL TECHNOLOGY EQUIPMENT SCHEDULE AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.
2. FIBER DISTRIBUTION FOR LEG "A" SHALL BE ON THE LEFT SIDE OF THE FIBER PANEL, LEG "B" SHALL BE ON THE RIGHT SIDE.
3. RACK BONDING BUS BAR (SC-GND-2) TO BE LOCATED AT REAR OF RACK, RACK UNIT 45. RACK BONDING BAR SHALL BE DUAL LUG HOLE SUITABLE FOR #6 AWG BONDING CONDUCTORS.

KEYNOTES: (#)

1. CONTRACTOR TO FURNISH AND INSTALL TWO (2) SC-PDU-2 PER RACK, MOUNTED AT THE REAR OF THE RACK, ONE (1) PER SIDE.
2. REFER TO ELECTRICAL PLANS AND SPECIFICATIONS FOR UPS INFORMATION.



4 TELECOM ROOM ENLARGEMENT TR-111-1473

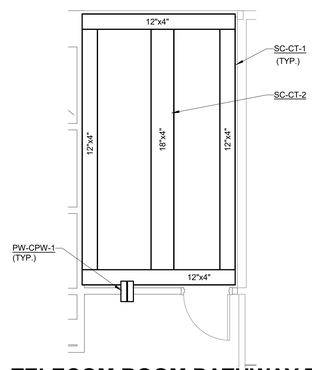
1/4" = 1'-0"

NOTES:

1. REFER TO 1/TN401 FOR BONDING BUS BAR DETAIL.
2. REFER TO 2/TN401 FOR TYPICAL TELECOM ROOM BONDING FLOW DIAGRAM.
3. REFER TO 3/TN401 FOR TECHNOLOGY BONDING RISER DIAGRAM.
4. CONTRACTOR SHALL COORDINATE CAMERA FIELD OF VIEW WITH CONTRACTING OFFICER PRIOR TO INSTALLATION.
5. CONTRACTOR TO PROVIDE 3' CLEAR ON EACH SIDE OF RACK AT A MINIMUM. IF ROOM SIZE IS NOT SUFFICIENT TO PROVIDE 3' ON EVERY SIDE OF RACK, THEN ONE SIDE CAN BE PLACED 1' FROM THE WALL. IF ROOM SIZE IS NOT SUFFICIENT FOR 3', 3', 3', 1', THEN CONTRACTOR SHALL NOTIFY A/E AND COR PRIOR TO ANY CONSTRUCTION BEING COMPLETED IN THE TR.

KEYNOTES:

1. COORDINATE WITH ELECTRICAL CONTRACTOR FOR POWER PROVISIONING.

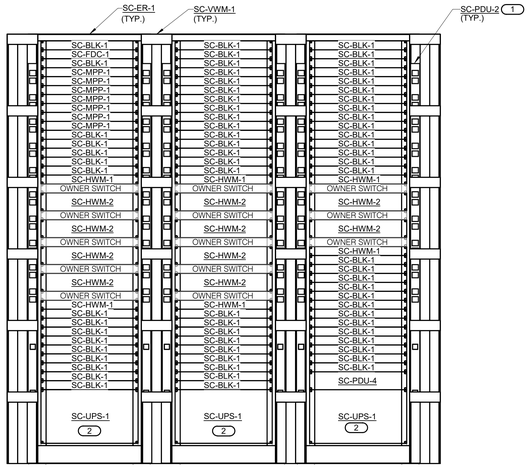


5 TELECOM ROOM PATHWAY TR-111-1473

1/4" = 1'-0"

NOTES:

1. LADDER RACK SHALL BE MOUNTED 6" ABOVE THE TOP OF THE TELECOM RACKS/CABINETS.



6 EQUIPMENT RACK ELEVATION TR-111-1473

NO SCALE

NOTES:

1. ALL EQUIPMENT SHALL BE LOCATED IN ITS DESIGNATED LOCATION AS DEFINED BY THIS LAYOUT UNLESS OTHERWISE NOTED. ALL EQUIPMENT IS SIZED BY RACK UNITS (RU) ACCORDING TO THE BASIS OF DESIGN MANUFACTURER AND MODEL NUMBER. THE FINAL LAYOUT AND EQUIPMENT SIZE MAY VARY BASED ON THE FINAL SELECTION OF THE EQUIPMENT. ANY CHANGES TO THE LAYOUT SHOWN ABOVE SHALL BE COORDINATED WITH THE C.O.R. PRIOR TO INSTALLATION. REFER TO THE GENERAL TECHNOLOGY EQUIPMENT SCHEDULE AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.
2. FIBER DISTRIBUTION FOR LEG "A" SHALL BE ON THE LEFT SIDE OF THE FIBER PANEL, LEG "B" SHALL BE ON THE RIGHT SIDE.
3. RACK BONDING BUS BAR (SC-GND-2) TO BE LOCATED AT REAR OF RACK, RACK UNIT 45. RACK BONDING BAR SHALL BE DUAL LUG HOLE SUITABLE FOR #6 AWG BONDING CONDUCTORS

KEYNOTES: (#)

1. CONTRACTOR TO FURNISH AND INSTALL TWO (2) SC-PDU-2 PER RACK, MOUNTED AT THE REAR OF THE RACK, ONE (1) PER SIDE.
2. REFER TO ELECTRICAL PLANS AND SPECIFICATIONS FOR UPS INFORMATION.

Revisions:	Date:
35% SCHEMATIC DESIGN SUBMISSION	5.17.21
65% DESIGN DEVELOPMENT SUBMISSION	6.15.21
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Approved:	Sprinklered: FULLY SPRINKLERED	Location: 5000 W. NATIONAL AVENUE MILWAUKEE, WI	Drawing Number: TN315
		Issue Date: SEPTEMBER 05, 2025 / Checked: PHINIE / Drawn: MAIBEJ	

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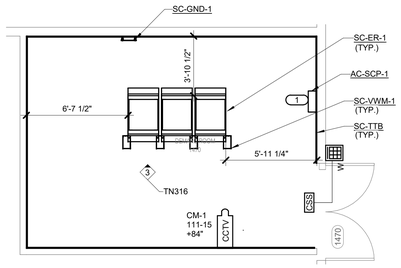


1 TELECOM ROOM ENLARGEMENT TR-111-1470

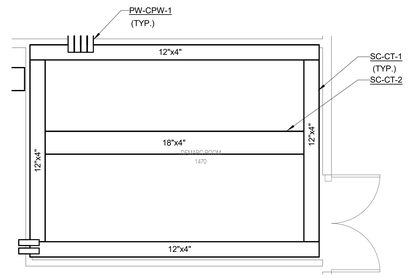
NO SCALE

NOTES:

1. REFER TO 1/TN401 FOR BONDING BUS BAR DETAIL.
2. REFER TO 2/TN401 FOR TYPICAL TELECOM ROOM BONDING FLOW DIAGRAM.
3. REFER TO 3/TN401 FOR TECHNOLOGY BONDING RISER DIAGRAM.
4. CONTRACTOR SHALL COORDINATE CAMERA FIELD OF VIEW WITH CONTRACTING OFFICER PRIOR TO INSTALLATION.
5. CONTRACTOR TO PROVIDE 3' CLEAR ON EACH SIDE OF RACK AT A MINIMUM. IF ROOM SIZE IS NOT SUFFICIENT TO PROVIDE 3' ON EVERY SIDE OF RACK, THEN ONE SIDE CAN BE PLACED 1' FROM THE WALL. IF ROOM SIZE IS NOT SUFFICIENT FOR 3', 3', 3', 1', THEN CONTRACTOR SHALL NOTIFY A/E AND COR PRIOR TO ANY CONSTRUCTION BEING COMPLETED IN THE TR.

KEYNOTES:

1. COORDINATE WITH ELECTRICAL CONTRACTOR FOR POWER PROVISIONING.

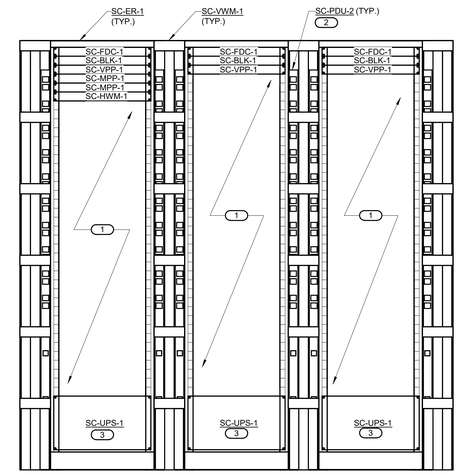


2 TELECOM ROOM PATHWAY TR-111-1470

1/4" = 1'-0"

NOTES:

1. LADDER RACK SHALL BE MOUNTED 6" ABOVE THE TOP OF THE TELECOM RACKS/CABINETS.



3 EQUIPMENT RACK ELEVATION TR-111-1470

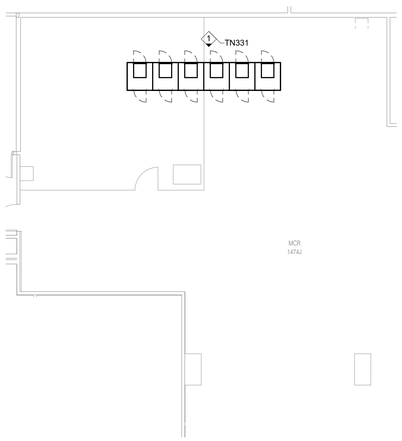
NO SCALE

NOTES:

1. RACKS ARE FOR USE BY THE SECONDARY INTERNET SERVICE PROVIDER.
2. RACK BONDING BUS BAR (SC-GND-2) TO BE LOCATED AT REAR OF RACK, RACK UNIT 45. RACK BONDING BAR SHALL BE DUAL LUG HOLE SUITABLE FOR #6 AWG BONDING CONDUCTORS

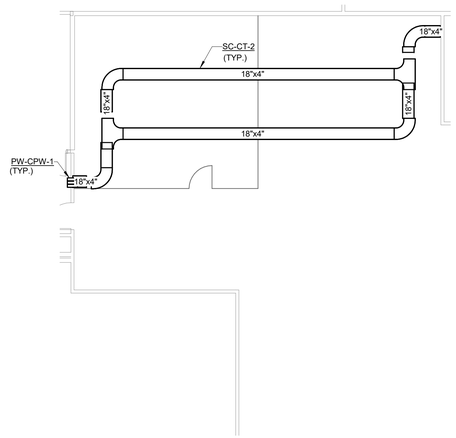
KEYNOTES: #

1. EQUIPMENT BY SERVICE PROVIDER.
2. CONTRACTOR TO FURNISH AND INSTALL TWO (2) SC-PDU-2 PER RACKS, MOUNTED AT THE REAR OF THE RACK, ONE (1) PER SIDE.
3. REFER TO ELECTRICAL PLANS AND SPECIFICATIONS FOR UPS INFORMATION.



4 TELECOM ROOM ENLARGEMENT MCR-111-1474J

1/8" = 1'-0"



5 TELECOM ROOM PATHWAY MCR-111-1474J

1/8" = 1'-0"

Revisions:	Date:
35% SCHEMATIC DESIGN SUBMISSION	5.17.21
65% DESIGN DEVELOPMENT SUBMISSION	6.15.21
65% DESIGN DEVELOPMENT RESUBMISSION	8.25.21

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Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: TECHNOLOGY ROOM ENLARGEMENTS

Approved:

Phase: FINAL BID DOCUMENTS

Sprinklered: FULLY SPRINKLERED

Project Title: EHRM INFRASTRUCTURE UPGRADES - MILWAUKEE, WI

Location: 5000 W. NATIONAL AVENUE MILWAUKEE, WI

Issue Date: SEPTEMBER 05, 2025

Checked: PHINIE

Drawn: MAIBEJ

Project Number: 695-21-700

Building Number:

Drawing Number: TN316

VA FORM 08 - 6231

Autodesk Docs://OCFM East - Milwaukee EHRM (R24)/T24_18004375.03_VA MilwEHRM_C.rvt

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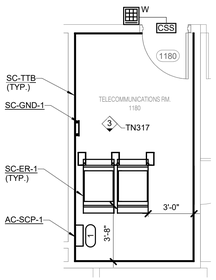


1 TELECOM ROOM ENLARGEMENT TR-111-1180

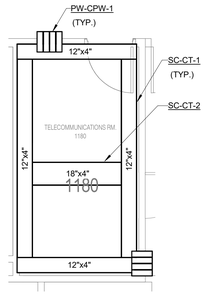
1/4" = 1'-0"

NOTES:

1. REFER TO 1/TN401 FOR BONDING BUS BAR DETAIL.
2. REFER TO 2/TN401 FOR TYPICAL TELECOM ROOM BONDING FLOW DIAGRAM.
3. REFER TO 3/TN401 FOR TECHNOLOGY BONDING RISER DIAGRAM.
4. CONTRACTOR SHALL COORDINATE CAMERA FIELD OF VIEW WITH CONTRACTING OFFICER PRIOR TO INSTALLATION.
5. CONTRACTOR TO PROVIDE 3' CLEAR ON EACH SIDE OF RACK AT A MINIMUM. IF ROOM SIZE IS NOT SUFFICIENT TO PROVIDE 3' ON EVERY SIDE OF RACK, THEN ONE SIDE CAN BE PLACED 1' FROM THE WALL. IF ROOM SIZE IS NOT SUFFICIENT FOR 3', 3', 3', 1', THEN CONTRACTOR SHALL NOTIFY A/E AND COR PRIOR TO ANY CONSTRUCTION BEING COMPLETED IN THE TR.

KEYNOTES:

1. COORDINATE WITH ELECTRICAL CONTRACTOR FOR POWER PROVISIONING.

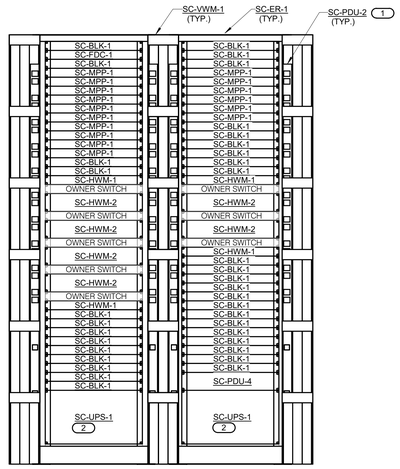


2 TELECOM ROOM PATHWAY TR-111-1180

1/4" = 1'-0"

NOTES:

1. LADDER RACK SHALL BE MOUNTED 6" ABOVE THE TOP OF THE TELECOM RACKS/CABINETS.



3 DATA RACK ELEVATION TR-111-1180 LEG A

NO SCALE

NOTES:

1. ALL EQUIPMENT SHALL BE LOCATED IN ITS DESIGNATED LOCATION AS DEFINED BY THIS LAYOUT UNLESS OTHERWISE NOTED. ALL EQUIPMENT IS SIZED BY RACK UNITS (RU) ACCORDING TO THE BASIS OF DESIGN MANUFACTURER AND MODEL NUMBER. THE FINAL LAYOUT AND EQUIPMENT SIZE MAY VARY BASED ON THE FINAL SELECTION OF THE EQUIPMENT. ANY CHANGES TO THE LAYOUT SHOWN ABOVE SHALL BE COORDINATED WITH THE C.O.R. PRIOR TO INSTALLATION. REFER TO THE GENERAL TECHNOLOGY EQUIPMENT SCHEDULE AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.
2. RACK BONDING BUS BAR (SC-GND-2) TO BE LOCATED AT REAR OF RACK. RACK UNIT 45. RACK BONDING BAR SHALL BE DUAL LUG HOLE SUITABLE FOR #6 AWG BONDING CONDUCTORS.
3. ZONE PDUS SHALL BE MOUNTED IMMEDIATELY ABOVE THE UPS DUE TO EXCESS WEIGHT AND TO ENSURE STABILITY.

KEYNOTES: #

1. CONTRACTOR TO FURNISH AND INSTALL TWO (2) SC-PDU-2 PER RACK, MOUNTED AT THE REAR OF THE RACK, ONE (1) PER SIDE.
2. REFER TO ELECTRICAL PLANS AND SPECIFICATIONS FOR UPS INFORMATION.

Revisions:	Date:
35% SCHEMATIC DESIGN SUBMISSION	5.17.21
65% DESIGN DEVELOPMENT SUBMISSION	6.15.21
65% DESIGN DEVELOPMENT RESUBMISSION	8.25.21

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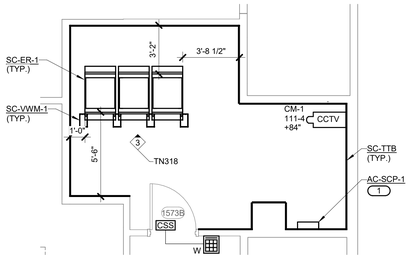


1 TELECOM ROOM ENLARGEMENT TR-111-1537B

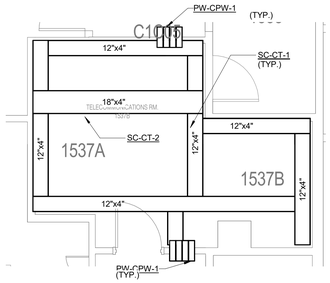
1/4" = 1'-0"

NOTES:

1. REFER TO 1/TN401 FOR BONDING BUS BAR DETAIL.
2. REFER TO 2/TN401 FOR TYPICAL TELECOM ROOM BONDING FLOW DIAGRAM.
3. REFER TO 3/TN401 FOR TECHNOLOGY BONDING RISER DIAGRAM.
4. CONTRACTOR SHALL COORDINATE CAMERA FIELD OF VIEW WITH CONTRACTING OFFICER PRIOR TO INSTALLATION.
5. CONTRACTOR TO PROVIDE 3' CLEAR ON EACH SIDE OF RACK AT A MINIMUM. IF ROOM SIZE IS NOT SUFFICIENT TO PROVIDE 3' ON EVERY SIDE OF RACK, THEN ONE SIDE CAN BE PLACED 1' FROM THE WALL. IF ROOM SIZE IS NOT SUFFICIENT FOR 3', 3', 3', 1', THEN CONTRACTOR SHALL NOTIFY A/E AND COR PRIOR TO ANY CONSTRUCTION BEING COMPLETED IN THE TR.

KEYNOTES:

1. COORDINATE WITH ELECTRICAL CONTRACTOR FOR POWER PROVISIONING.

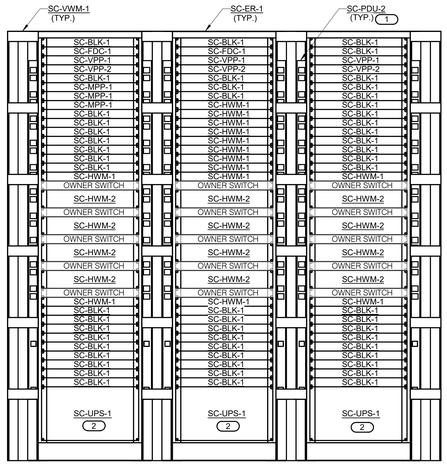


2 TELECOM ROOM PATHWAY TR-111-1537B

1/4" = 1'-0"

NOTES:

1. BASKET TRAY SHALL BE MOUNTED 6" ABOVE THE TOP OF THE TELECOM RACKS/CABINETS.



3 EQUIPMENT RACK ELEVATION TR-111-1537B

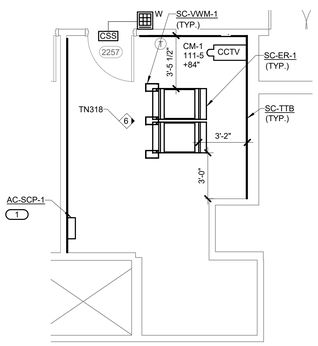
NO SCALE

NOTES:

1. ALL EQUIPMENT SHALL BE LOCATED IN ITS DESIGNATED LOCATION AS DEFINED BY THIS LAYOUT UNLESS OTHERWISE NOTED. ALL EQUIPMENT IS SIZED BY RACK UNITS (RU) ACCORDING TO THE BASIS OF DESIGN MANUFACTURER AND MODEL NUMBER. THE FINAL LAYOUT AND EQUIPMENT SIZE MAY VARY BASED ON THE FINAL SELECTION OF THE EQUIPMENT. ANY CHANGES TO THE LAYOUT SHOWN ABOVE SHALL BE COORDINATED WITH THE C.O.R. PRIOR TO INSTALLATION. REFER TO THE GENERAL TECHNOLOGY EQUIPMENT SCHEDULE AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.
2. FIBER DISTRIBUTION FOR LEG "A" SHALL BE ON THE LEFT SIDE OF THE FIBER PANEL, LEG "B" SHALL BE ON THE RIGHT SIDE.
3. RACK BONDING BUS BAR (SC-GND-2) TO BE LOCATED AT REAR OF RACK, RACK UNIT 45. RACK BONDING BAR SHALL BE DUAL LUG HOLE SUITABLE FOR #6 AWG BONDING CONDUCTORS

KEYNOTES: #

1. CONTRACTOR TO FURNISH AND INSTALL TWO (2) SC-PDU-2 PER RACK, MOUNTED AT THE REAR OF THE RACK, ONE (1) PER SIDE.
2. REFER TO ELECTRICAL PLANS AND SPECIFICATIONS FOR UPS INFORMATION.



4 TELECOM ROOM ENLARGEMENT TR-111-2557

1/4" = 1'-0"

NOTES:

1. REFER TO 1/TN401 FOR BONDING BUS BAR DETAIL.
2. REFER TO 2/TN401 FOR TYPICAL TELECOM ROOM BONDING FLOW DIAGRAM.
3. REFER TO 3/TN401 FOR TECHNOLOGY BONDING RISER DIAGRAM.
4. CONTRACTOR SHALL COORDINATE CAMERA FIELD OF VIEW WITH CONTRACTING OFFICER PRIOR TO INSTALLATION.
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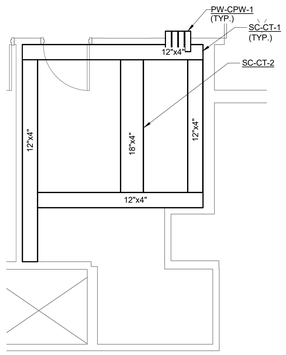
KEYNOTES:

1. COORDINATE WITH ELECTRICAL CONTRACTOR FOR POWER PROVISIONING.

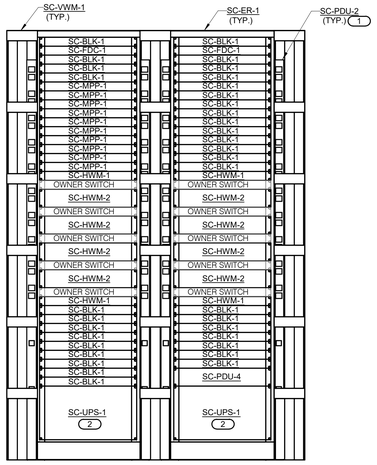


5 TELECOM ROOM PATHWAY TR-111-2557

1/4" = 1'-0"

NOTES:

1. LADDER RACK SHALL BE MOUNTED 6" ABOVE THE TOP OF THE TELECOM RACKS/CABINETS.



6 EQUIPMENT RACK ELEVATION TR-111-2557

NO SCALE

NOTES:

1. ALL EQUIPMENT SHALL BE LOCATED IN ITS DESIGNATED LOCATION AS DEFINED BY THIS LAYOUT UNLESS OTHERWISE NOTED. ALL EQUIPMENT IS SIZED BY RACK UNITS (RU) ACCORDING TO THE BASIS OF DESIGN MANUFACTURER AND MODEL NUMBER. THE FINAL LAYOUT AND EQUIPMENT SIZE MAY VARY BASED ON THE FINAL SELECTION OF THE EQUIPMENT. ANY CHANGES TO THE LAYOUT SHOWN ABOVE SHALL BE COORDINATED WITH THE C.O.R. PRIOR TO INSTALLATION. REFER TO THE GENERAL TECHNOLOGY EQUIPMENT SCHEDULE AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.
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3. RACK BONDING BUS BAR (SC-GND-2) TO BE LOCATED AT REAR OF RACK, RACK UNIT 45. RACK BONDING BAR SHALL BE DUAL LUG HOLE SUITABLE FOR #6 AWG BONDING CONDUCTORS
4. ZONE PDUS SHALL BE MOUNTED IMMEDIATELY ABOVE THE UPS DUE TO EXCESS WEIGHT AND TO ENSURE STABILITY.

KEYNOTES: #

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35% SCHEMATIC DESIGN SUBMISSION	5.17.21
65% DESIGN DEVELOPMENT SUBMISSION	6.15.21
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Revisions:	Date:

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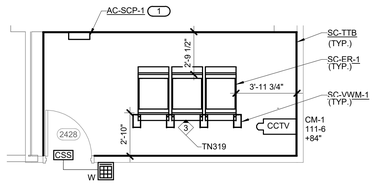

1 TELECOM ROOM ENLARGEMENT TR-111-2428

1/4" = 1'-0"

NOTES:

1. REFER TO 1/TN401 FOR BONDING BUS BAR DETAIL.
2. REFER TO 2/TN401 FOR TYPICAL TELECOM ROOM BONDING FLOW DIAGRAM.
3. REFER TO 3/TN401 FOR TECHNOLOGY BONDING RISER DIAGRAM.
4. CONTRACTOR SHALL COORDINATE CAMERA FIELD OF VIEW WITH CONTRACTING OFFICER PRIOR TO INSTALLATION.
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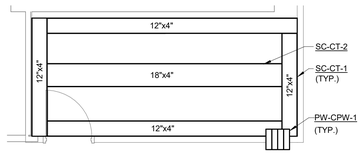
KEYNOTES:

1. COORDINATE WITH ELECTRICAL CONTRACTOR FOR POWER PROVISIONING.

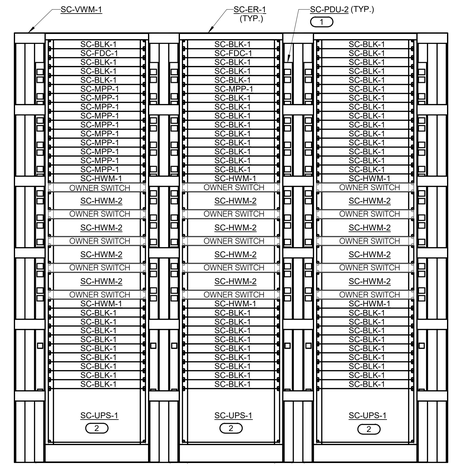


2 TELECOM ROOM PATHWAY TR-111-2428

1/4" = 1'-0"

NOTES:

1. BASKET TRAY SHALL BE MOUNTED 6" ABOVE THE TOP OF THE TELECOM RACKS/CABINETS.



3 EQUIPMENT RACK ELEVATION TR-111-2428

NO SCALE

NOTES:

1. ALL EQUIPMENT SHALL BE LOCATED IN ITS DESIGNATED LOCATION AS DEFINED BY THIS LAYOUT UNLESS OTHERWISE NOTED. ALL EQUIPMENT IS SIZED BY RACK UNITS (RU) ACCORDING TO THE BASIS OF DESIGN MANUFACTURER AND MODEL NUMBER. THE FINAL LAYOUT AND EQUIPMENT SIZE MAY VARY BASED ON THE FINAL SELECTION OF THE EQUIPMENT. ANY CHANGES TO THE LAYOUT SHOWN ABOVE SHALL BE COORDINATED WITH THE C.O.R. PRIOR TO INSTALLATION. REFER TO THE GENERAL TECHNOLOGY EQUIPMENT SCHEDULE AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.
2. FIBER DISTRIBUTION FOR LEG "A" SHALL BE ON THE LEFT SIDE OF THE FIBER PANEL, LEG "B" SHALL BE ON THE RIGHT SIDE.
3. RACK BONDING BUS BAR (SC-GND-2) TO BE LOCATED AT REAR OF RACK, RACK UNIT 45. RACK BONDING BAR SHALL BE DUAL LUG HOLE SUITABLE FOR #6 AWG BONDING CONDUCTORS

KEYNOTES: #

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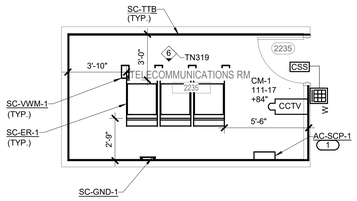

4 TELECOM ROOM ENLARGEMENT TR-111-2235

1/4" = 1'-0"

NOTES:

1. REFER TO 1/TN401 FOR BONDING BUS BAR DETAIL.
2. REFER TO 2/TN401 FOR TYPICAL TELECOM ROOM BONDING FLOW DIAGRAM.
3. REFER TO 3/TN401 FOR TECHNOLOGY BONDING RISER DIAGRAM.
4. CONTRACTOR SHALL COORDINATE CAMERA FIELD OF VIEW WITH CONTRACTING OFFICER PRIOR TO INSTALLATION.
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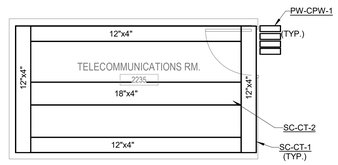
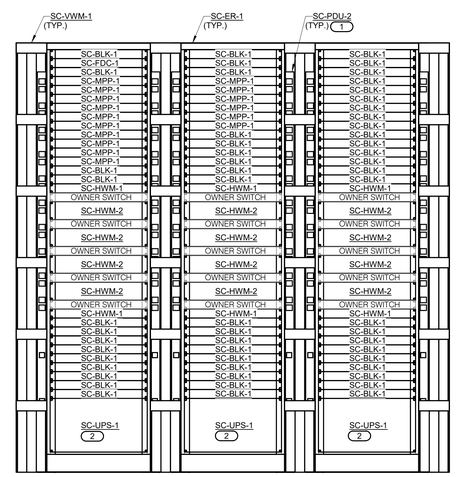


5 TELECOM ROOM PATHWAY TR-111-2235

1/4" = 1'-0"

NOTES:

1. LADDER RACK SHALL BE MOUNTED 6" ABOVE THE TOP OF THE TELECOM RACKS/CABINETS.



6 EQUIPMENT RACK ELEVATION TR-111-2235

1" = 1'-0"

NOTES:

1. ALL EQUIPMENT SHALL BE LOCATED IN ITS DESIGNATED LOCATION AS DEFINED BY THIS LAYOUT UNLESS OTHERWISE NOTED. ALL EQUIPMENT IS SIZED BY RACK UNITS (RU) ACCORDING TO THE BASIS OF DESIGN MANUFACTURER AND MODEL NUMBER. THE FINAL LAYOUT AND EQUIPMENT SIZE MAY VARY BASED ON THE FINAL SELECTION OF THE EQUIPMENT. ANY CHANGES TO THE LAYOUT SHOWN ABOVE SHALL BE COORDINATED WITH THE C.O.R. PRIOR TO INSTALLATION. REFER TO THE GENERAL TECHNOLOGY EQUIPMENT SCHEDULE AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.
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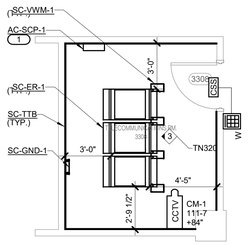

1 TELECOM ROOM ENLARGEMENT TR-111-3308

1/4" = 1'-0"

NOTES:

1. REFER TO 1/TN401 FOR BONDING BUS BAR DETAIL.
2. REFER TO 2/TN401 FOR TYPICAL TELECOM ROOM BONDING FLOW DIAGRAM.
3. REFER TO 3/TN401 FOR TECHNOLOGY BONDING RISER DIAGRAM.
4. PROVIDE A MINIMUM OF 10 FEET OF COILED FIBER FOR BOTH LEGS "A" AND "B".
5. CONTRACTOR SHALL COORDINATE CAMERA FIELD OF VIEW WITH CONTRACTING OFFICER PRIOR TO INSTALLATION.
6. CONTRACTOR TO PROVIDE 3' CLEAR ON EACH SIDE OF RACK AT A MINIMUM. IF ROOM SIZE IS NOT SUFFICIENT TO PROVIDE 3' ON EVERY SIDE OF RACK, THEN ONE SIDE CAN BE PLACED 1' FROM THE WALL. IF ROOM SIZE IS NOT SUFFICIENT FOR 3', 3', 3', 1', THEN CONTRACTOR SHALL NOTIFY A/E AND COR PRIOR TO ANY CONSTRUCTION BEING COMPLETED IN THE TR.

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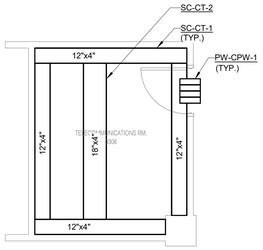
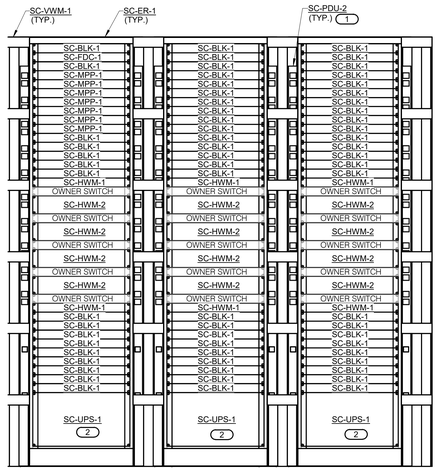


2 TELECOM ROOM PATHWAY TR-111-33308

1/4" = 1'-0"

NOTES:

1. LADDER RACK SHALL BE MOUNTED 6" ABOVE THE TOP OF THE TELECOM RACKS/CABINETS.



3 EQUIPMENT RACK ELEVATION TR-111-3308

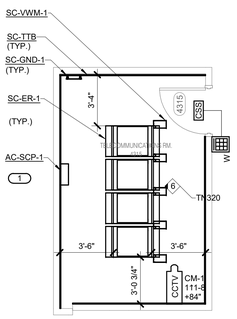
NO SCALE

NOTES:

1. ALL EQUIPMENT SHALL BE LOCATED IN ITS DESIGNATED LOCATION AS DEFINED BY THIS LAYOUT UNLESS OTHERWISE NOTED. ALL EQUIPMENT IS SIZED BY RACK UNITS (RU) ACCORDING TO THE BASIS OF DESIGN MANUFACTURER AND MODEL NUMBER. THE FINAL LAYOUT AND EQUIPMENT SIZE MAY VARY BASED ON THE FINAL SELECTION OF THE EQUIPMENT. ANY CHANGES TO THE LAYOUT SHOWN ABOVE SHALL BE COORDINATED WITH THE C.O.R. PRIOR TO INSTALLATION. REFER TO THE GENERAL TECHNOLOGY EQUIPMENT SCHEDULE AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.
2. FIBER DISTRIBUTION FOR LEG "A" SHALL BE ON THE LEFT SIDE OF THE FIBER PANEL, LEG "B" SHALL BE ON THE RIGHT SIDE.
3. RACK BONDING BUS BAR (SC-GND-2) TO BE LOCATED AT REAR OF RACK. RACK UNIT 45. RACK BONDING BAR SHALL BE DUAL LUG HOLE SUITABLE FOR #6 AWG BONDING CONDUCTORS

KEYNOTES: #

1. CONTRACTOR TO FURNISH AND INSTALL TWO (2) SC-PDU-2 PER RACK, MOUNTED AT THE REAR OF THE RACK, ONE (1) PER SIDE.
2. REFER TO ELECTRICAL PLANS AND SPECIFICATIONS FOR UPS INFORMATION.



4 TELECOM ROOM ENLARGEMENT TR-111-4315

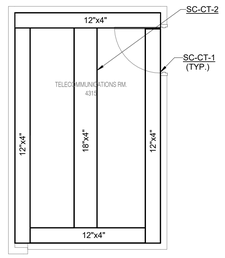
1/4" = 1'-0"

NOTES:

1. REFER TO 1/TN401 FOR BONDING BUS BAR DETAIL.
2. REFER TO 2/TN401 FOR TYPICAL TELECOM ROOM BONDING FLOW DIAGRAM.
3. REFER TO 3/TN401 FOR TECHNOLOGY BONDING RISER DIAGRAM.
4. PROVIDE A MINIMUM OF 10 FEET OF COILED FIBER FOR BOTH LEGS "A" AND "B".
5. CONTRACTOR SHALL COORDINATE CAMERA FIELD OF VIEW WITH CONTRACTING OFFICER PRIOR TO INSTALLATION.
6. CONTRACTOR TO PROVIDE 3' CLEAR ON EACH SIDE OF RACK AT A MINIMUM. IF ROOM SIZE IS NOT SUFFICIENT TO PROVIDE 3' ON EVERY SIDE OF RACK, THEN ONE SIDE CAN BE PLACED 1' FROM THE WALL. IF ROOM SIZE IS NOT SUFFICIENT FOR 3', 3', 3', 1', THEN CONTRACTOR SHALL NOTIFY A/E AND COR PRIOR TO ANY CONSTRUCTION BEING COMPLETED IN THE TR.

KEYNOTES:

1. COORDINATE WITH ELECTRICAL CONTRACTOR FOR POWER PROVISIONING.

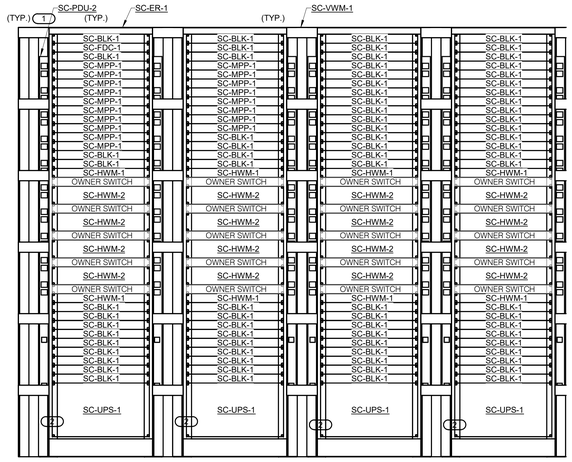


5 TELECOM ROOM PATHWAY TR-111-4315

1/4" = 1'-0"

NOTES:

1. LADDER RACK SHALL BE MOUNTED 6" ABOVE THE TOP OF THE TELECOM RACKS/CABINETS.



6 EQUIPMENT RACK ELEVATION TR-111-4315

NO SCALE

NOTES:

1. ALL EQUIPMENT SHALL BE LOCATED IN ITS DESIGNATED LOCATION AS DEFINED BY THIS LAYOUT UNLESS OTHERWISE NOTED. ALL EQUIPMENT IS SIZED BY RACK UNITS (RU) ACCORDING TO THE BASIS OF DESIGN MANUFACTURER AND MODEL NUMBER. THE FINAL LAYOUT AND EQUIPMENT SIZE MAY VARY BASED ON THE FINAL SELECTION OF THE EQUIPMENT. ANY CHANGES TO THE LAYOUT SHOWN ABOVE SHALL BE COORDINATED WITH THE C.O.R. PRIOR TO INSTALLATION. REFER TO THE GENERAL TECHNOLOGY EQUIPMENT SCHEDULE AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.
2. FIBER DISTRIBUTION FOR LEG "A" SHALL BE ON THE LEFT SIDE OF THE FIBER PANEL, LEG "B" SHALL BE ON THE RIGHT SIDE.
3. RACK BONDING BUS BAR (SC-GND-2) TO BE LOCATED AT REAR OF RACK. RACK UNIT 45. RACK BONDING BAR SHALL BE DUAL LUG HOLE SUITABLE FOR #6 AWG BONDING CONDUCTORS

KEYNOTES: #

1. CONTRACTOR TO FURNISH AND INSTALL TWO (2) SC-PDU-2 PER RACK, MOUNTED AT THE REAR OF THE RACK, ONE (1) PER SIDE.
2. REFER TO ELECTRICAL PLANS AND SPECIFICATIONS FOR UPS INFORMATION.

35% SCHEMATIC DESIGN SUBMISSION	5.17.21
65% DESIGN DEVELOPMENT SUBMISSION	6.15.21
65% DESIGN DEVELOPMENT RESUBMISSION	8.25.21
Revisions:	Date:

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Drawing Title TECHNOLOGY ROOM ENLARGEMENTS	**Phase** FINAL BID DOCUMENTS	**Project Title** EHRM INFRASTRUCTURE UPGRADES - MILWAUKEE, WI	**Project Number** 695-21-700
			Building Number
Approved:	**Sprinklered** FULLY SPRINKLERED	**Location** 5000 W. NATIONAL AVENUE MILWAUKEE, WI	**Drawing Number** TN320
		Issue Date SEPTEMBER 05, 2025 / **Checked** PHINIE / **Drawn** MAIBEJ	

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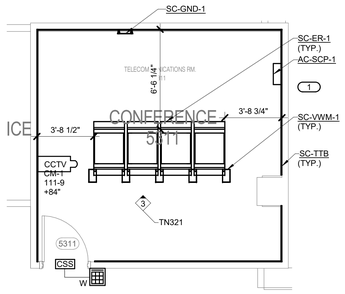


1 TELECOM ROOM ENLARGEMENT TR-111-5311

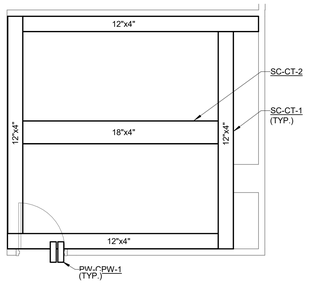
1/4" = 1'-0"

NOTES:

1. REFER TO 1/TN401 FOR BONDING BUS BAR DETAIL.
2. REFER TO 2/TN401 FOR TYPICAL TELECOM ROOM BONDING FLOW DIAGRAM.
3. REFER TO 3/TN401 FOR TECHNOLOGY BONDING RISER DIAGRAM.
4. PROVIDE A MINIMUM OF 10 FEET OF COILED FIBER FOR BOTH LEGS "A" AND "B".
5. CONTRACTOR SHALL COORDINATE CAMERA FIELD OF VIEW WITH CONTRACTING OFFICER PRIOR TO INSTALLATION.
6. CONTRACTOR TO PROVIDE 3' CLEAR ON EACH SIDE OF RACK AT A MINIMUM. IF ROOM SIZE IS NOT SUFFICIENT TO PROVIDE 3' ON EVERY SIDE OF RACK, THEN ONE SIDE CAN BE PLACED 1' FROM THE WALL. IF ROOM SIZE IS NOT SUFFICIENT FOR 3', 3', 3', 1', THEN CONTRACTOR SHALL NOTIFY A/E AND COR PRIOR TO ANY CONSTRUCTION BEING COMPLETED IN THE TR.

KEYNOTES:

1. COORDINATE WITH ELECTRICAL CONTRACTOR FOR POWER PROVISIONING.

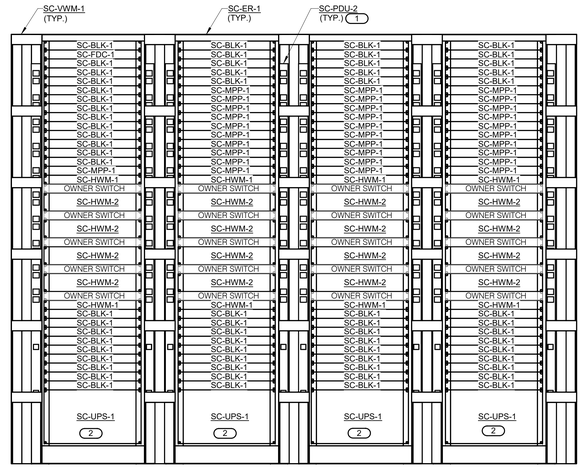


2 TELECOM ROOM PATHWAY TR-111-5311

1/4" = 1'-0"

NOTES:

1. LADDER RACK SHALL BE MOUNTED 6" ABOVE THE TOP OF THE TELECOM RACKS/CABINETS.



3 EQUIPMENT RACK ELEVATION TR-111-5311

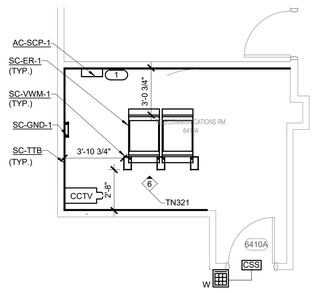
NO SCALE

NOTES:

1. ALL EQUIPMENT SHALL BE LOCATED IN ITS DESIGNATED LOCATION AS DEFINED BY THIS LAYOUT UNLESS OTHERWISE NOTED. ALL EQUIPMENT IS SIZED BY RACK UNITS (RU) ACCORDING TO THE BASIS OF DESIGN MANUFACTURER AND MODEL NUMBER. THE FINAL LAYOUT AND EQUIPMENT SIZE MAY VARY BASED ON THE FINAL SELECTION OF THE EQUIPMENT. ANY CHANGES TO THE LAYOUT SHOWN ABOVE SHALL BE COORDINATED WITH THE C.O.R. PRIOR TO INSTALLATION. REFER TO THE GENERAL TECHNOLOGY EQUIPMENT SCHEDULE AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.
2. FIBER DISTRIBUTION FOR LEG "A" SHALL BE ON THE LEFT SIDE OF THE FIBER PANEL, LEG "B" SHALL BE ON THE RIGHT SIDE.
3. RACK BONDING BUS BAR (SC-GND-2) TO BE LOCATED AT REAR OF RACK, RACK UNIT 45. RACK BONDING BAR SHALL BE DUAL LUG HOLE SUITABLE FOR #6 AWG BONDING CONDUCTORS

KEYNOTES: #

1. CONTRACTOR TO FURNISH AND INSTALL TWO (2) SC-PDU-2 PER RACK, MOUNTED AT THE REAR OF THE RACK, ONE (1) PER SIDE.
2. REFER TO ELECTRICAL PLANS AND SPECIFICATIONS FOR UPS INFORMATION.



4 TELECOM ROOM ENLARGEMENT TR-111-6410A

1/4" = 1'-0"

NOTES:

1. REFER TO 1/TN401 FOR BONDING BUS BAR DETAIL.
2. REFER TO 2/TN401 FOR TYPICAL TELECOM ROOM BONDING FLOW DIAGRAM.
3. REFER TO 3/TN401 FOR TECHNOLOGY BONDING RISER DIAGRAM.
4. PROVIDE A MINIMUM OF 10 FEET OF COILED FIBER FOR BOTH LEGS "A" AND "B".
5. CONTRACTOR SHALL COORDINATE CAMERA FIELD OF VIEW WITH CONTRACTING OFFICER PRIOR TO INSTALLATION.
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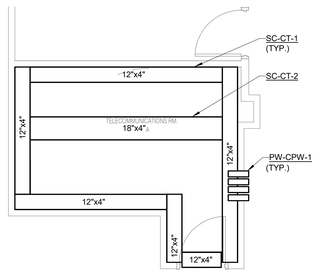
KEYNOTES:

1. COORDINATE WITH ELECTRICAL CONTRACTOR FOR POWER PROVISIONING.

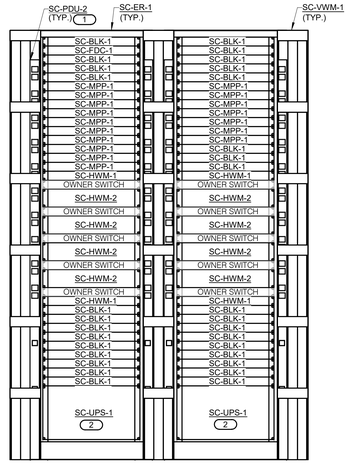


5 TELECOM ROOM PATHWAY TR-111-6410A

1/4" = 1'-0"

NOTES:

1. LADDER RACK SHALL BE MOUNTED 6" ABOVE THE TOP OF THE TELECOM RACKS/CABINETS.



6 EQUIPMENT RACK ELEVATION TR-111-6410A

NO SCALE

NOTES:

1. ALL EQUIPMENT SHALL BE LOCATED IN ITS DESIGNATED LOCATION AS DEFINED BY THIS LAYOUT UNLESS OTHERWISE NOTED. ALL EQUIPMENT IS SIZED BY RACK UNITS (RU) ACCORDING TO THE BASIS OF DESIGN MANUFACTURER AND MODEL NUMBER. THE FINAL LAYOUT AND EQUIPMENT SIZE MAY VARY BASED ON THE FINAL SELECTION OF THE EQUIPMENT. ANY CHANGES TO THE LAYOUT SHOWN ABOVE SHALL BE COORDINATED WITH THE C.O.R. PRIOR TO INSTALLATION. REFER TO THE GENERAL TECHNOLOGY EQUIPMENT SCHEDULE AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.
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3. RACK BONDING BUS BAR (SC-GND-2) TO BE LOCATED AT REAR OF RACK, RACK UNIT 45.

KEYNOTES: #

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Revisions:	Date:
35% SCHEMATIC DESIGN SUBMISSION	5.17.21
65% DESIGN DEVELOPMENT SUBMISSION	6.15.21
65% DESIGN DEVELOPMENT RESUBMISSION	8.25.21

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Drawing Title: TECHNOLOGY ROOM ENLARGEMENTS	Phase: FINAL BID DOCUMENTS	Project Title: EHRM INFRASTRUCTURE UPGRADES - MILWAUKEE, WI	Project Number: 695-21-700
			Building Number:
Approved:	Sprinklered: FULLY SPRINKLERED	Location: 5000 W. NATIONAL AVENUE MILWAUKEE, WI	Drawing Number: TN321
		Issue Date: SEPTEMBER 05, 2025 / Checked: PHINIE / Drawn: MAIBEJ	

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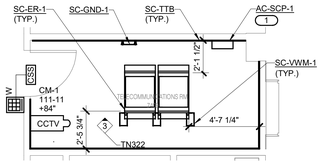

1 TELECOM ROOM ENLARGEMENT TR-111-7412

1/4" = 1'-0"

NOTES:

1. REFER TO 1/TN401 FOR BONDING BUS BAR DETAIL.
2. REFER TO 2/TN401 FOR TYPICAL TELECOM ROOM BONDING FLOW DIAGRAM.
3. REFER TO 3/TN401 FOR TECHNOLOGY BONDING RISER DIAGRAM.
4. PROVIDE A MINIMUM OF 10 FEET OF COILED FIBER FOR BOTH LEGS "A" AND "B".
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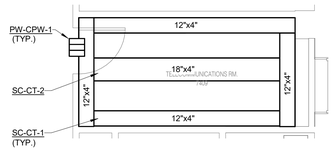
KEYNOTES:

1. COORDINATE WITH ELECTRICAL CONTRACTOR FOR POWER PROVISIONING.

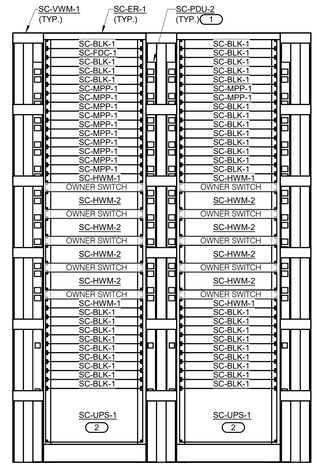


2 TELECOM ROOM PATHWAY TR-111-7412

1/4" = 1'-0"

NOTES:

1. LADDER RACK SHALL BE MOUNTED 6" ABOVE THE TOP OF THE TELECOM RACKS/CABINETS.



3 EQUIPMENT RACK ELEVATION TR-111-7412

NO SCALE

NOTES:

1. ALL EQUIPMENT SHALL BE LOCATED IN ITS DESIGNATED LOCATION AS DEFINED BY THIS LAYOUT UNLESS OTHERWISE NOTED. ALL EQUIPMENT IS SIZED BY RACK UNITS (RU) ACCORDING TO THE BASIS OF DESIGN MANUFACTURER AND MODEL NUMBER. THE FINAL LAYOUT AND EQUIPMENT SIZE MAY VARY BASED ON THE FINAL SELECTION OF THE EQUIPMENT. ANY CHANGES TO THE LAYOUT SHOWN ABOVE SHALL BE COORDINATED WITH THE C.O.R. PRIOR TO INSTALLATION. REFER TO THE GENERAL TECHNOLOGY EQUIPMENT SCHEDULE AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.
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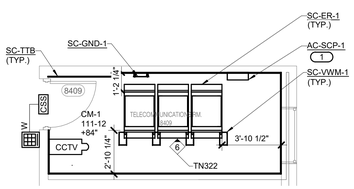
3. RACK BONDING BUS BAR (SC-GND-2) TO BE LOCATED AT REAR OF RACK, RACK UNIT 45. RACK BONDING BAR SHALL BE DUAL LUG HOLE SUITABLE FOR #6 AWG BONDING CONDUCTORS

KEYNOTES: (#)

1. CONTRACTOR TO FURNISH AND INSTALL TWO (2) SC-PDU-2 PER RACK, MOUNTED AT THE REAR OF THE RACK, ONE (1) PER SIDE.
2. REFER TO ELECTRICAL PLANS AND SPECIFICATIONS FOR UPS INFORMATION.



4 TELECOM ROOM ENLARGEMENT TR-111-8409

1/4" = 1'-0"

NOTES:

1. REFER TO 1/TN401 FOR BONDING BUS BAR DETAIL.
2. REFER TO 2/TN401 FOR TYPICAL TELECOM ROOM BONDING FLOW DIAGRAM.
3. REFER TO 3/TN401 FOR TECHNOLOGY BONDING RISER DIAGRAM.
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KEYNOTES:

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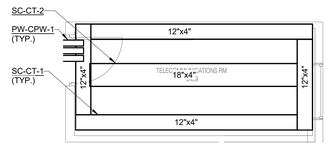
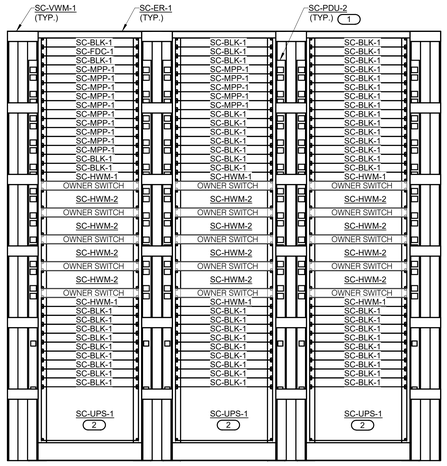


5 TELECOM ROOM PATHWAY TR-111-8409

1/4" = 1'-0"

NOTES:

1. LADDER RACK SHALL BE MOUNTED 6" ABOVE THE TOP OF THE TELECOM RACKS/CABINETS.



6 EQUIPMENT RACK ELEVATION TR-111-8409

NO SCALE

NOTES:

1. ALL EQUIPMENT SHALL BE LOCATED IN ITS DESIGNATED LOCATION AS DEFINED BY THIS LAYOUT UNLESS OTHERWISE NOTED. ALL EQUIPMENT IS SIZED BY RACK UNITS (RU) ACCORDING TO THE BASIS OF DESIGN MANUFACTURER AND MODEL NUMBER. THE FINAL LAYOUT AND EQUIPMENT SIZE MAY VARY BASED ON THE FINAL SELECTION OF THE EQUIPMENT. ANY CHANGES TO THE LAYOUT SHOWN ABOVE SHALL BE COORDINATED WITH THE C.O.R. PRIOR TO INSTALLATION. REFER TO THE GENERAL TECHNOLOGY EQUIPMENT SCHEDULE AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.
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KEYNOTES: (#)

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Revisions:	Date:
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Drawing Title TECHNOLOGY ROOM ENLARGEMENTS	**Phase** FINAL BID DOCUMENTS	**Project Title** EHRM INFRASTRUCTURE UPGRADES - MILWAUKEE, WI	**Project Number** 695-21-700
			Building Number
Approved:	**Sprinklered** FULLY SPRINKLERED	**Location** 5000 W. NATIONAL AVENUE MILWAUKEE, WI	**Drawing Number** TN322
		Issue Date SEPTEMBER 05, 2025 / **Checked** PHINIE / **Drawn** MAIBEJ	

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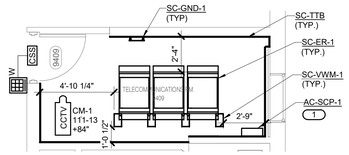


1 TELECOM ROOM ENLARGEMENT TR-111-9409

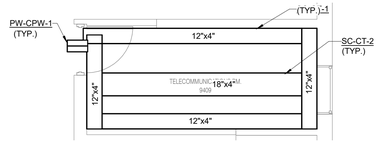
1/4" = 1'-0"

NOTES:

1. REFER TO 1/TN401 FOR BONDING BUS BAR DETAIL.
2. REFER TO 2/TN401 FOR TYPICAL TELECOM ROOM BONDING FLOW DIAGRAM.
3. REFER TO 3/TN401 FOR TECHNOLOGY BONDING RISER DIAGRAM.
4. PROVIDE A MINIMUM OF 10 FEET OF COILED FIBER FOR BOTH LEGS "A" AND "B".
5. CONTRACTOR SHALL COORDINATE CAMERA FIELD OF VIEW WITH CONTRACTING OFFICER PRIOR TO INSTALLATION.
6. CONTRACTOR TO PROVIDE 3' CLEAR ON EACH SIDE OF RACK AT A MINIMUM. IF ROOM SIZE IS NOT SUFFICIENT TO PROVIDE 3' ON EVERY SIDE OF RACK, THEN ONE SIDE CAN BE PLACED 1' FROM THE WALL. IF ROOM SIZE IS NOT SUFFICIENT FOR 3', 3', 3', 1', THEN CONTRACTOR SHALL NOTIFY A/E AND COR PRIOR TO ANY CONSTRUCTION BEING COMPLETED IN THE TR.

KEYNOTES:

1. COORDINATE WITH ELECTRICAL CONTRACTOR FOR POWER PROVISIONING.

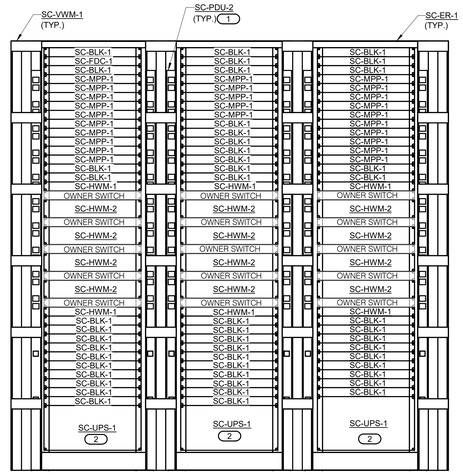


2 TELECOM ROOM PATHWAY TR-111-9409

1/4" = 1'-0"

NOTES:

1. LADDER RACK SHALL BE MOUNTED 6" ABOVE THE TOP OF THE TELECOM RACKS/CABINETS.



3 EQUIPMENT RACK ELEVATION TR-111-9409

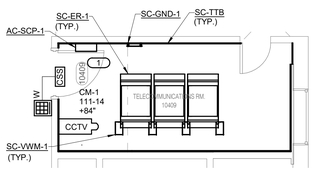
NO SCALE

NOTES:

1. ALL EQUIPMENT SHALL BE LOCATED IN ITS DESIGNATED LOCATION AS DEFINED BY THIS LAYOUT UNLESS OTHERWISE NOTED. ALL EQUIPMENT IS SIZED BY RACK UNITS (RU) ACCORDING TO THE BASIS OF DESIGN MANUFACTURER AND MODEL NUMBER. THE FINAL LAYOUT AND EQUIPMENT SIZE MAY VARY BASED ON THE FINAL SELECTION OF THE EQUIPMENT. ANY CHANGES TO THE LAYOUT SHOWN ABOVE SHALL BE COORDINATED WITH THE C.O.R. PRIOR TO INSTALLATION. REFER TO THE GENERAL TECHNOLOGY EQUIPMENT SCHEDULE AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.
2. FIBER DISTRIBUTION FOR LEG "A" SHALL BE ON THE LEFT SIDE OF THE FIBER PANEL, LEG "B" SHALL BE ON THE RIGHT SIDE.
3. RACK BONDING BUS BAR (SC-GND-2) TO BE LOCATED AT REAR OF RACK, RACK UNIT 45. RACK BONDING BAR SHALL BE DUAL LUG HOLE SUITABLE FOR #6 AWG BONDING CONDUCTORS

KEYNOTES: (#)

1. CONTRACTOR TO FURNISH AND INSTALL TWO (2) SC-PDU-2 PER RACK, MOUNTED AT THE REAR OF THE RACK, ONE (1) PER SIDE.
2. REFER TO ELECTRICAL PLANS AND SPECIFICATIONS FOR UPS INFORMATION.



4 TELECOM ROOM ENLARGEMENT TR-111-10409

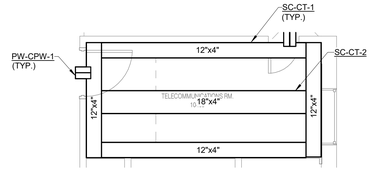
1/4" = 1'-0"

NOTES:

1. REFER TO 1/TN401 FOR BONDING BUS BAR DETAIL.
2. REFER TO 2/TN401 FOR TYPICAL TELECOM ROOM BONDING FLOW DIAGRAM.
3. REFER TO 3/TN401 FOR TECHNOLOGY BONDING RISER DIAGRAM.
4. PROVIDE A MINIMUM OF 10 FEET OF COILED FIBER FOR BOTH LEGS "A" AND "B".
5. CONTRACTOR SHALL COORDINATE CAMERA FIELD OF VIEW WITH CONTRACTING OFFICER PRIOR TO INSTALLATION.
6. CONTRACTOR TO PROVIDE 3' CLEAR ON EACH SIDE OF RACK AT A MINIMUM. IF ROOM SIZE IS NOT SUFFICIENT TO PROVIDE 3' ON EVERY SIDE OF RACK, THEN ONE SIDE CAN BE PLACED 1' FROM THE WALL. IF ROOM SIZE IS NOT SUFFICIENT FOR 3', 3', 3', 1', THEN CONTRACTOR SHALL NOTIFY A/E AND COR PRIOR TO ANY CONSTRUCTION BEING COMPLETED IN THE TR.

KEYNOTES:

1. COORDINATE WITH ELECTRICAL CONTRACTOR FOR POWER PROVISIONING.

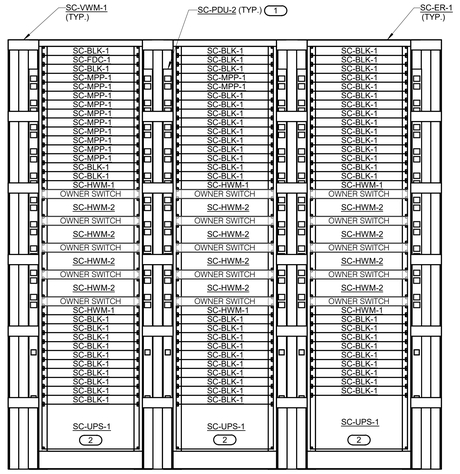


5 TELECOM ROOM PATHWAY TR-111-10409

1/4" = 1'-0"

NOTES:

1. LADDER RACK SHALL BE MOUNTED 6" ABOVE THE TOP OF THE TELECOM RACKS/CABINETS.



6 EQUIPMENT RACK ELEVATION TR-111-10409

NO SCALE

NOTES:

1. ALL EQUIPMENT SHALL BE LOCATED IN ITS DESIGNATED LOCATION AS DEFINED BY THIS LAYOUT UNLESS OTHERWISE NOTED. ALL EQUIPMENT IS SIZED BY RACK UNITS (RU) ACCORDING TO THE BASIS OF DESIGN MANUFACTURER AND MODEL NUMBER. THE FINAL LAYOUT AND EQUIPMENT SIZE MAY VARY BASED ON THE FINAL SELECTION OF THE EQUIPMENT. ANY CHANGES TO THE LAYOUT SHOWN ABOVE SHALL BE COORDINATED WITH THE C.O.R. PRIOR TO INSTALLATION. REFER TO THE GENERAL TECHNOLOGY EQUIPMENT SCHEDULE AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.
2. FIBER DISTRIBUTION FOR LEG "A" SHALL BE ON THE LEFT SIDE OF THE FIBER PANEL, LEG "B" SHALL BE ON THE RIGHT SIDE.
3. RACK BONDING BUS BAR (SC-GND-2) TO BE LOCATED AT REAR OF RACK, RACK UNIT 45. RACK BONDING BAR SHALL BE DUAL LUG HOLE SUITABLE FOR #6 AWG BONDING CONDUCTORS

KEYNOTES: (#)

1. CONTRACTOR TO FURNISH AND INSTALL TWO (2) SC-PDU-2 PER RACK, MOUNTED AT THE REAR OF THE RACK, ONE (1) PER SIDE.
2. REFER TO ELECTRICAL PLANS AND SPECIFICATIONS FOR UPS INFORMATION.

Revisions:	Date:
35% SCHEMATIC DESIGN SUBMISSION	5.17.21
65% DESIGN DEVELOPMENT SUBMISSION	6.15.21
65% DESIGN DEVELOPMENT RESUBMISSION	8.25.21

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PROJECT #18004375.03

ARCHITECT/ENGINEER OF RECORD

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DAVID LARSON
BICSI ID # 106098
EXPIRES 12-31-25
RCDD

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title	Phase	Project Title	Project Number
TECHNOLOGY ROOM ENLARGEMENTS	FINAL BID DOCUMENTS	EHRM INFRASTRUCTURE UPGRADES - MILWAUKEE, WI	695-21-700
Approved:	Sprinklered: FULLY SPRINKLERED	Location: 5000 W. NATIONAL AVENUE MILWAUKEE, WI	Building Number
		Issue Date: SEPTEMBER 05, 2025 / Checked: PHINIE / Drawn: MAIBEJ	Drawing Number: TN323

VA FORM 08 - 6231

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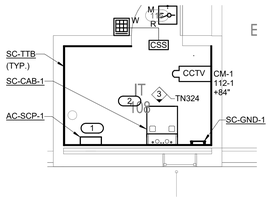


1 TELECOM ROOM ENLARGEMENT TE-112-108

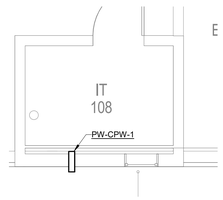
1/4" = 1'-0"

NOTES:

1. REFER TO 1/TN401 FOR BONDING BUS BAR DETAIL.
2. REFER TO 2/TN401 FOR TYPICAL TELECOM ROOM BONDING FLOW DIAGRAM.
3. REFER TO 3/TN401 FOR TECHNOLOGY BONDING RISER DIAGRAM.
4. PROVIDE A MINIMUM OF 10 FEET OF COILED FIBER FOR BOTH LEGS "A" AND "B".
5. CONTRACTOR SHALL COORDINATE CAMERA FIELD OF VIEW WITH CONTRACTING OFFICER PRIOR TO INSTALLATION.
6. DX-VERTIV ENCLOSURES ARE UTILIZED. REFER TO MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.

KEYNOTES: #

1. COORDINATE WITH ELECTRICAL CONTRACTOR FOR POWER PROVISIONING.
2. DOOR POSITION SWITCH/TAMPER SWITCH ON INSIDE OF DOOR.

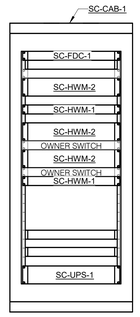


2 TELECOM ROOM PATHWAY TE-112-108

1/4" = 1'-0"

NOTES:

1. LADDER RACK SHALL BE MOUNTED 6" ABOVE THE TOP OF THE TELECOM RACKS/CABINETS.

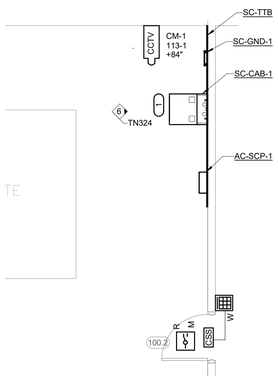


3 EQUIPMENT CABINET ELEVATION TE-112-108

NO SCALE

NOTES:

1. ALL EQUIPMENT SHALL BE LOCATED IN ITS DESIGNATED LOCATION AS DEFINED BY THIS LAYOUT UNLESS OTHERWISE NOTED. ALL EQUIPMENT IS SIZED BY RACK UNITS (RU) ACCORDING TO THE BASIS OF DESIGN MANUFACTURER AND MODEL NUMBER. THE FINAL LAYOUT AND EQUIPMENT SIZE MAY VARY BASED ON THE FINAL SELECTION OF THE EQUIPMENT. ANY CHANGES TO THE LAYOUT SHOWN ABOVE SHALL BE COORDINATED WITH THE C.O.R. PRIOR TO INSTALLATION. REFER TO THE GENERAL TECHNOLOGY EQUIPMENT SCHEDULE AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.
2. FIBER DISTRIBUTION FOR LEG "A" SHALL BE ON THE LEFT SIDE OF THE FIBER PANEL, LEG "B" SHALL BE ON THE RIGHT SIDE.
3. RACK BONDING BUS BAR (SC-GND-2), RBB, SHALL BE MOUNTED AT THE REAR, TOP OF THE CABINET. REFER TO SPECIFICATION SECTION 270526 FOR ADDITIONAL INFORMATION.



4 TELECOM ROOM ENLARGEMENT TE-113-106

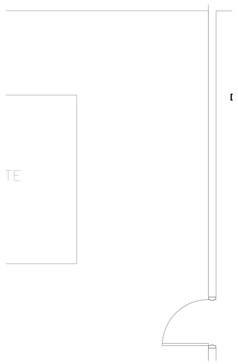
1/4" = 1'-0"

NOTES:

1. REFER TO 1/TN401 FOR BONDING BUS BAR DETAIL.
2. REFER TO 2/TN401 FOR TYPICAL TELECOM ROOM BONDING FLOW DIAGRAM.
3. REFER TO 3/TN401 FOR TECHNOLOGY BONDING RISER DIAGRAM.
4. PROVIDE A MINIMUM OF 10 FEET OF COILED FIBER FOR BOTH LEGS "A" AND "B".
5. CONTRACTOR SHALL COORDINATE CAMERA FIELD OF VIEW WITH CONTRACTING OFFICER PRIOR TO INSTALLATION.

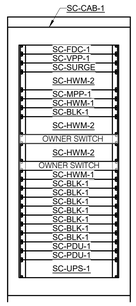
KEYNOTES: #

1. DOOR POSITION SWITCH/TAMPER SWITCH ON INSIDE OF DOOR.



5 TELECOM ROOM PATHWAY TE-113-106

1/4" = 1'-0"



6 EQUIPMENT CABINET ELEVATION TE-113-106

1" = 1'-0"

NOTES:

1. ALL EQUIPMENT SHALL BE LOCATED IN ITS DESIGNATED LOCATION AS DEFINED BY THIS LAYOUT UNLESS OTHERWISE NOTED. ALL EQUIPMENT IS SIZED BY RACK UNITS (RU) ACCORDING TO THE BASIS OF DESIGN MANUFACTURER AND MODEL NUMBER. THE FINAL LAYOUT AND EQUIPMENT SIZE MAY VARY BASED ON THE FINAL SELECTION OF THE EQUIPMENT. ANY CHANGES TO THE LAYOUT SHOWN ABOVE SHALL BE COORDINATED WITH THE C.O.R. PRIOR TO INSTALLATION. REFER TO THE GENERAL TECHNOLOGY EQUIPMENT SCHEDULE AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.
2. RACK BONDING BUS BAR, RBB, SHALL BE MOUNTED AT THE REAR, TOP OF THE CABINET. REFER TO SPECIFICATION SECTION 270526 FOR ADDITIONAL INFORMATION.

Revisions:	Date:
35% SCHEMATIC DESIGN SUBMISSION	5.17.21
65% DESIGN DEVELOPMENT SUBMISSION	6.15.21
65% DESIGN DEVELOPMENT RESUBMISSION	8.25.21

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DAVID LARSON
BICSI ID # 106098
Expires 12-31-25
RCDD

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: TECHNOLOGY ROOM ENLARGEMENTS	Phase: FINAL BID DOCUMENTS	Project Title: EHRM INFRASTRUCTURE UPGRADES - MILWAUKEE, WI	Project Number: 695-21-700
Approved:	Sprinklered: FULLY SPRINKLERED	Location: 5000 W. NATIONAL AVENUE MILWAUKEE, WI	Building Number:
		Issue Date: SEPTEMBER 05, 2025 / Checked: PHINIE / Drawn: MAIBEJ	Drawing Number: TN324

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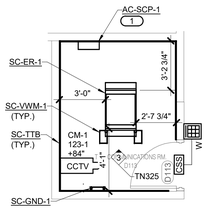
Graphic Scale: 1/16" = 1'-0"
Graphic Scale: 1/8" = 1'-0"
Graphic Scale: 3/32" = 1'-0"
Graphic Scale: 1/4" = 1'-0"
Graphic Scale: 3/8" = 1'-0"
Graphic Scale: 1/2" = 1'-0"
Graphic Scale: 3/4" = 1'-0"
Graphic Scale: 1" = 1'-0"
Graphic Scale: 1 1/2" = 1'-0"



1 TELECOM ROOM ENLARGEMENT TR-123-D113

1/4" = 1'-0"

NOTES:

1. REFER TO 1/TN401 FOR BONDING BUS BAR DETAIL.
2. REFER TO 2/TN401 FOR TYPICAL TELECOM ROOM BONDING FLOW DIAGRAM.
3. REFER TO 3/TN401 FOR TECHNOLOGY BONDING RISER DIAGRAM.
4. PROVIDE A MINIMUM OF 10 FEET OF COILED FIBER FOR BOTH LEGS "A" AND "B".
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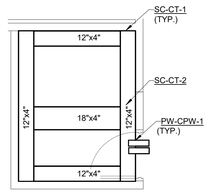
6. CONTRACTOR TO PROVIDE 3' CLEAR ON EACH SIDE OF RACK AT A MINIMUM. IF ROOM SIZE IS NOT SUFFICIENT TO PROVIDE 3' ON EVERY SIDE OF RACK, THEN ONE SIDE CAN BE PLACED 1' FROM THE WALL. IF ROOM SIZE IS NOT SUFFICIENT FOR 3', 3', 3', 1', THEN CONTRACTOR SHALL NOTIFY A/E AND COR PRIOR TO ANY CONSTRUCTION BEING COMPLETED IN THE TR.

KEYNOTES:

1. COORDINATE WITH ELECTRICAL CONTRACTOR FOR POWER PROVISIONING.

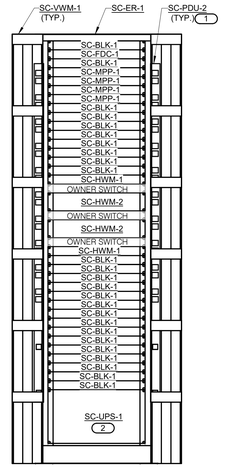


2 TELECOM ROOM PATHWAY TR-123-D113

1/4" = 1'-0"

NOTES:

1. LADDER RACK SHALL BE MOUNTED 6" ABOVE THE TOP OF THE TELECOM RACKS/CABINETS.



3 EQUIPMENT RACK ELEVATION TR-123-D113

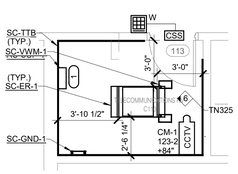
NO SCALE

NOTES:

1. ALL EQUIPMENT SHALL BE LOCATED IN ITS DESIGNATED LOCATION AS DEFINED BY THIS LAYOUT UNLESS OTHERWISE NOTED. ALL EQUIPMENT IS SIZED BY RACK UNITS (RU) ACCORDING TO THE BASIS OF DESIGN MANUFACTURER AND MODEL NUMBER. THE FINAL LAYOUT AND EQUIPMENT SIZE MAY VARY BASED ON THE FINAL SELECTION OF THE EQUIPMENT. ANY CHANGES TO THE LAYOUT SHOWN ABOVE SHALL BE COORDINATED WITH THE C.O.R. PRIOR TO INSTALLATION. REFER TO THE GENERAL TECHNOLOGY EQUIPMENT SCHEDULE AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.
2. FIBER DISTRIBUTION FOR LEG "A" SHALL BE ON THE LEFT SIDE OF THE FIBER PANEL, LEG "B" SHALL BE ON THE RIGHT SIDE.
3. RACK BONDING BUS BAR TO BE LOCATED AT REAR OF RACK, RACK UNIT 45, RACK BONDING BAR SHALL BE DUAL LUG HOLE SUITABLE FOR #6 AWG BONDING CONDUCTORS

KEYNOTES: (#)

1. CONTRACTOR TO FURNISH AND INSTALL TWO (2) SC-PDU-2 PER RACK, MOUNTED AT THE REAR OF THE RACK, ONE (1) PER SIDE.
2. REFER TO ELECTRICAL PLANS AND SPECIFICATIONS FOR UPS INFORMATION.



4 TELECOM ROOM ENLARGEMENT TR-123-C113

1/4" = 1'-0"

NOTES:

1. REFER TO 1/TN401 FOR BONDING BUS BAR DETAIL.
2. REFER TO 2/TN401 FOR TYPICAL TELECOM ROOM BONDING FLOW DIAGRAM.
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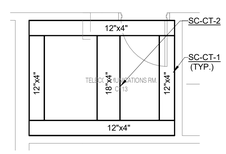
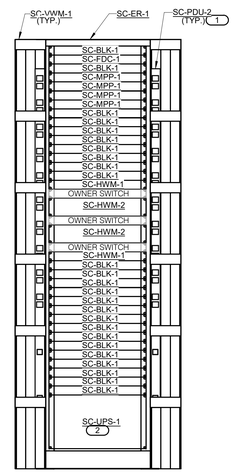


5 TELECOM ROOM PATHWAY TR-123-C113

1/4" = 1'-0"

NOTES:

1. LADDER RACK SHALL BE MOUNTED 6" ABOVE THE TOP OF THE TELECOM RACKS/CABINETS.



6 EQUIPMENT RACK ELEVATION TR-123-C113

NO SCALE

NOTES:

1. ALL EQUIPMENT SHALL BE LOCATED IN ITS DESIGNATED LOCATION AS DEFINED BY THIS LAYOUT UNLESS OTHERWISE NOTED. ALL EQUIPMENT IS SIZED BY RACK UNITS (RU) ACCORDING TO THE BASIS OF DESIGN MANUFACTURER AND MODEL NUMBER. THE FINAL LAYOUT AND EQUIPMENT SIZE MAY VARY BASED ON THE FINAL SELECTION OF THE EQUIPMENT. ANY CHANGES TO THE LAYOUT SHOWN ABOVE SHALL BE COORDINATED WITH THE C.O.R. PRIOR TO INSTALLATION. REFER TO THE GENERAL TECHNOLOGY EQUIPMENT SCHEDULE AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.
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KEYNOTES: (#)

1. CONTRACTOR TO FURNISH AND INSTALL TWO (2) SC-PDU-2 PER RACK, MOUNTED AT THE REAR OF THE RACK, ONE (1) PER SIDE.
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35% SCHEMATIC DESIGN SUBMISSION	5.17.21
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Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: TECHNOLOGY ROOM ENLARGEMENTS

Approved:

Phase: FINAL BID DOCUMENTS

Sprinklered: FULLY SPRINKLERED

Project Title: EHRM INFRASTRUCTURE UPGRADES - MILWAUKEE, WI

Location: 5000 W. NATIONAL AVENUE MILWAUKEE, WI

Issue Date: SEPTEMBER 05, 2025

Checked: PHINIE

Drawn: MAIBEJ

Project Number: 695-21-700

Building Number:

Drawing Number: TN325

VA FORM 08 - 6231

Autodesk Docs://OCFM East - Milwaukee EHRM (R24)/T24_180043750.03_VA MilwEHRM_C.rvt

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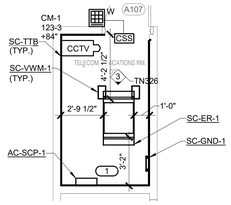


1 TELECOM ROOM ENLARGEMENT TR-123-A107

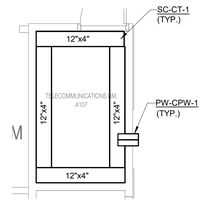
1/4" = 1'-0"

NOTES:

1. REFER TO 1/TN401 FOR BONDING BUS BAR DETAIL.
2. REFER TO 2/TN401 FOR TYPICAL TELECOM ROOM BONDING FLOW DIAGRAM.
3. REFER TO 3/TN401 FOR TECHNOLOGY BONDING RISER DIAGRAM.
4. PROVIDE A MINIMUM OF 10 FEET OF COILED FIBER FOR BOTH LEGS "A" AND "B".
5. CONTRACTOR SHALL COORDINATE CAMERA FIELD OF VIEW WITH CONTRACTING OFFICER PRIOR TO INSTALLATION.
6. CONTRACTOR TO PROVIDE 3' CLEAR ON EACH SIDE OF RACK AT A MINIMUM. IF ROOM SIZE IS NOT SUFFICIENT TO PROVIDE 3' ON EVERY SIDE OF RACK, THEN ONE SIDE CAN BE PLACED 1' FROM THE WALL. IF ROOM SIZE IS NOT SUFFICIENT FOR 3', 3', 3', 1', THEN CONTRACTOR SHALL NOTIFY A/E AND COR PRIOR TO ANY CONSTRUCTION BEING COMPLETED IN THE TR.

KEYNOTES:

1. COORDINATE WITH ELECTRICAL CONTRACTOR FOR POWER PROVISIONING.

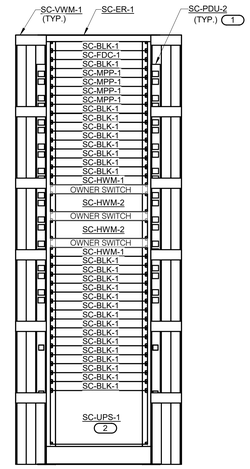


2 TELECOM ROOM PATHWAY TR-123-A107

1/4" = 1'-0"

NOTES:

1. LADDER RACK SHALL BE MOUNTED 6" ABOVE THE TOP OF THE TELECOM RACKS/CABINETS.



3 EQUIPMENT RACK ELEVATION TR-123-A107

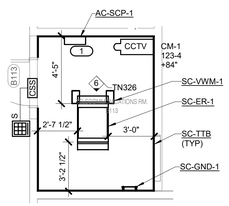
1" = 1'-0"

NOTES:

1. ALL EQUIPMENT SHALL BE LOCATED IN ITS DESIGNATED LOCATION AS DEFINED BY THIS LAYOUT UNLESS OTHERWISE NOTED. ALL EQUIPMENT IS SIZED BY RACK UNITS (RU) ACCORDING TO THE BASIS OF DESIGN MANUFACTURER AND MODEL NUMBER. THE FINAL LAYOUT AND EQUIPMENT SIZE MAY VARY BASED ON THE FINAL SELECTION OF THE EQUIPMENT. ANY CHANGES TO THE LAYOUT SHOWN ABOVE SHALL BE COORDINATED WITH THE C.O.R. PRIOR TO INSTALLATION. REFER TO THE GENERAL TECHNOLOGY EQUIPMENT SCHEDULE AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.
2. FIBER DISTRIBUTION FOR LEG "A" SHALL BE ON THE LEFT SIDE OF THE FIBER PANEL, LEG "B" SHALL BE ON THE RIGHT SIDE.
3. RACK BONDING BUS BAR (SC-GND-2) TO BE LOCATED AT REAR OF RACK, RACK UNIT 45. RACK BONDING BAR SHALL BE DUAL LUG HOLE SUITABLE FOR #6 AWG BONDING CONDUCTORS.

KEYNOTES: (#)

1. CONTRACTOR TO FURNISH AND INSTALL TWO (2) SC-PDU-2 PER RACK, MOUNTED AT THE REAR OF THE RACK, ONE (1) PER SIDE.
2. REFER TO ELECTRICAL PLANS AND SPECIFICATIONS FOR UPS INFORMATION.



4 TELECOM ROOM ENLARGEMENT TR-123-B113

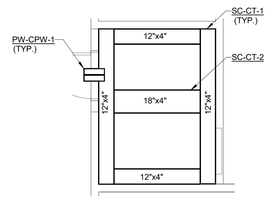
1/4" = 1'-0"

NOTES:

1. REFER TO 1/TN401 FOR BONDING BUS BAR DETAIL.
2. REFER TO 2/TN401 FOR TYPICAL TELECOM ROOM BONDING FLOW DIAGRAM.
3. REFER TO 3/TN401 FOR TECHNOLOGY BONDING RISER DIAGRAM.
4. PROVIDE A MINIMUM OF 10 FEET OF COILED FIBER FOR BOTH LEGS "A" AND "B".
5. CONTRACTOR SHALL COORDINATE CAMERA FIELD OF VIEW WITH CONTRACTING OFFICER PRIOR TO INSTALLATION.
6. CONTRACTOR TO PROVIDE 3' CLEAR ON EACH SIDE OF RACK AT A MINIMUM. IF ROOM SIZE IS NOT SUFFICIENT TO PROVIDE 3' ON EVERY SIDE OF RACK, THEN ONE SIDE CAN BE PLACED 1' FROM THE WALL. IF ROOM SIZE IS NOT SUFFICIENT FOR 3', 3', 3', 1', THEN CONTRACTOR SHALL NOTIFY A/E AND COR PRIOR TO ANY CONSTRUCTION BEING COMPLETED IN THE TR.

KEYNOTES:

1. COORDINATE WITH ELECTRICAL CONTRACTOR FOR POWER PROVISIONING.

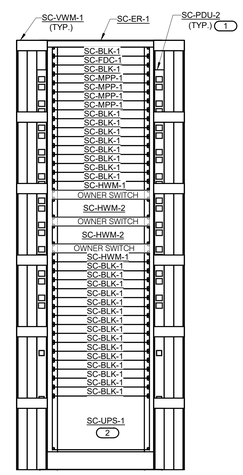


5 TELECOM ROOM PATHWAY TR-123-B113

1/4" = 1'-0"

NOTES:

1. LADDER RACK SHALL BE MOUNTED 6" ABOVE THE TOP OF THE TELECOM RACKS/CABINETS.



6 EQUIPMENT RACK ELEVATION TR-123-B113

NO SCALE

NOTES:

1. ALL EQUIPMENT SHALL BE LOCATED IN ITS DESIGNATED LOCATION AS DEFINED BY THIS LAYOUT UNLESS OTHERWISE NOTED. ALL EQUIPMENT IS SIZED BY RACK UNITS (RU) ACCORDING TO THE BASIS OF DESIGN MANUFACTURER AND MODEL NUMBER. THE FINAL LAYOUT AND EQUIPMENT SIZE MAY VARY BASED ON THE FINAL SELECTION OF THE EQUIPMENT. ANY CHANGES TO THE LAYOUT SHOWN ABOVE SHALL BE COORDINATED WITH THE C.O.R. PRIOR TO INSTALLATION. REFER TO THE GENERAL TECHNOLOGY EQUIPMENT SCHEDULE AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.
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3. RACK BONDING BUS BAR (SC-GND-2) TO BE LOCATED AT REAR OF RACK, RACK UNIT 45. RACK BONDING BAR SHALL BE DUAL LUG HOLE SUITABLE FOR #6 AWG BONDING CONDUCTORS

KEYNOTES: (#)

1. CONTRACTOR TO FURNISH AND INSTALL TWO (2) SC-PDU-2 PER RACK, MOUNTED AT THE REAR OF THE RACK, ONE (1) PER SIDE.
2. REFER TO ELECTRICAL PLANS AND SPECIFICATIONS FOR UPS INFORMATION.

35% SCHEMATIC DESIGN SUBMISSION	5.17.21
65% DESIGN DEVELOPMENT SUBMISSION	6.15.21
65% DESIGN DEVELOPMENT RESUBMISSION	8.25.21
Revisions:	Date:

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PROJECT #18004375.03

ARCHITECT/ENGINEER OF RECORD

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Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: TECHNOLOGY ROOM ENLARGEMENTS

Approved:

Phase: FINAL BID DOCUMENTS

Sprinklered: FULLY SPRINKLERED

Project Title: EHRM INFRASTRUCTURE UPGRADES - MILWAUKEE, WI

Location: 5000 W. NATIONAL AVENUE MILWAUKEE, WI

Issue Date: SEPTEMBER 05, 2025

Checked: PHINIE

Drawn: MAIBEJ

Project Number: 695-21-700

Building Number:

Drawing Number: TN326

VA FORM 08 - 6231

Autodesk Docs://OCFM East - Milwaukee EHRM (R24)/T24_18004375.03_VA MilwEHRM_C.rvt

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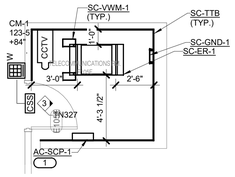
Graphic Scale: 11/6" = 1'-0"
Graphic Scale: 1/8" = 1'-0"
Graphic Scale: 3/32" = 1'-0"
Graphic Scale: 3/8" = 1'-0"
Graphic Scale: 1/2" = 1'-0"
Graphic Scale: 3/4" = 1'-0"
Graphic Scale: 1" = 1'-0"
Graphic Scale: 1 1/2" = 1'-0"



1 TELECOM ROOM ENLARGEMENT TR-123-E105E

1/4" = 1'-0"

NOTES:

1. REFER TO 1/TN401 FOR BONDING BUS BAR DETAIL.
2. REFER TO 2/TN401 FOR TYPICAL TELECOM ROOM BONDING FLOW DIAGRAM.
3. REFER TO 3/TN401 FOR TECHNOLOGY BONDING RISER DIAGRAM.
4. PROVIDE A MINIMUM OF 10 FEET OF COILED FIBER FOR BOTH LEGS "A" AND "B".
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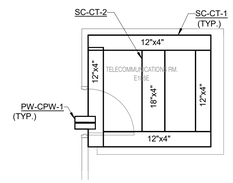
KEYNOTES:

1. COORDINATE WITH ELECTRICAL CONTRACTOR FOR POWER PROVISIONING.

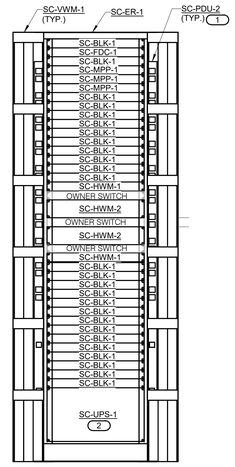


2 TELECOM ROOM PATHWAY TR-123-E105E

1/4" = 1'-0"

NOTES:

1. LADDER RACK SHALL BE MOUNTED 6" ABOVE THE TOP OF THE TELECOM RACKS/CABINETS.



3 EQUIPMENT RACK ELEVATION TR-123-E105E

NO SCALE

NOTES:

1. ALL EQUIPMENT SHALL BE LOCATED IN ITS DESIGNATED LOCATION AS DEFINED BY THIS LAYOUT UNLESS OTHERWISE NOTED. ALL EQUIPMENT IS SIZED BY RACK UNITS (RU) ACCORDING TO THE BASIS OF DESIGN MANUFACTURER AND MODEL NUMBER. THE FINAL LAYOUT AND EQUIPMENT SIZE MAY VARY BASED ON THE FINAL SELECTION OF THE EQUIPMENT. ANY CHANGES TO THE LAYOUT SHOWN ABOVE SHALL BE COORDINATED WITH THE C.O.R. PRIOR TO INSTALLATION. REFER TO THE GENERAL TECHNOLOGY EQUIPMENT SCHEDULE AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.
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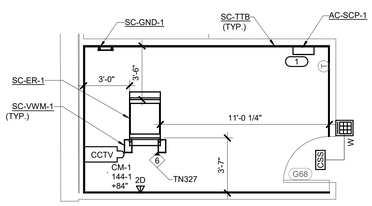
3. RACK BONDING BUS BAR (SC-GND-2) TO BE LOCATED AT REAR OF RACK, RACK UNIT 45. RACK BONDING BAR SHALL BE DUAL LUG HOLE SUITABLE FOR #6 AWG BONDING CONDUCTORS

KEYNOTES: #

1. CONTRACTOR TO FURNISH AND INSTALL TWO (2) SC-PDU-2 PER RACK, MOUNTED AT THE REAR OF THE RACK, ONE (1) PER SIDE.
2. REFER TO ELECTRICAL PLANS AND SPECIFICATIONS FOR UPS INFORMATION.



4 TELECOM ROOM ENLARGEMENT TR-144-G68TC

1/4" = 1'-0"

NOTES:

1. REFER TO 1/TN401 FOR BONDING BUS BAR DETAIL.
2. REFER TO 2/TN401 FOR TYPICAL TELECOM ROOM BONDING FLOW DIAGRAM.
3. REFER TO 3/TN401 FOR TECHNOLOGY BONDING RISER DIAGRAM.
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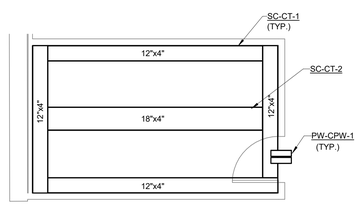
KEYNOTES:

1. COORDINATE WITH ELECTRICAL CONTRACTOR FOR POWER PROVISIONING.

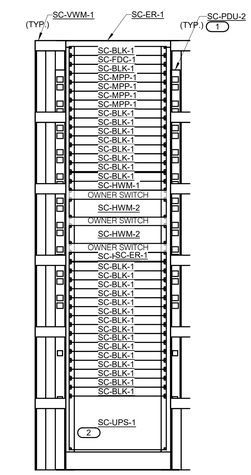


5 TELECOM ROOM PATHWAY TR-144-G68TC

1/4" = 1'-0"

NOTES:

1. LADDER RACK SHALL BE MOUNTED 6" ABOVE THE TOP OF THE TELECOM RACKS/CABINETS.



6 EQUIPMENT RACK ELEVATION TR-144-G68TC

NO SCALE

NOTES:

1. ALL EQUIPMENT SHALL BE LOCATED IN ITS DESIGNATED LOCATION AS DEFINED BY THIS LAYOUT UNLESS OTHERWISE NOTED. ALL EQUIPMENT IS SIZED BY RACK UNITS (RU) ACCORDING TO THE BASIS OF DESIGN MANUFACTURER AND MODEL NUMBER. THE FINAL LAYOUT AND EQUIPMENT SIZE MAY VARY BASED ON THE FINAL SELECTION OF THE EQUIPMENT. ANY CHANGES TO THE LAYOUT SHOWN ABOVE SHALL BE COORDINATED WITH THE C.O.R. PRIOR TO INSTALLATION. REFER TO THE GENERAL TECHNOLOGY EQUIPMENT SCHEDULE AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.
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KEYNOTES: #

1. CONTRACTOR TO FURNISH AND INSTALL TWO (2) SC-PDUS-2 PER RACK, MOUNTED AT THE REAR OF THE RACK, ONE (1) PER SIDE.
2. REFER TO ELECTRICAL PLANS AND SPECIFICATIONS FOR UPS INFORMATION.

35% SCHEMATIC DESIGN SUBMISSION	5.17.21
65% DESIGN DEVELOPMENT SUBMISSION	6.15.21
65% DESIGN DEVELOPMENT RESUBMISSION	8.25.21
Revisions:	Date:

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VA U.S. Department of Veterans Affairs

Drawing Title: TECHNOLOGY ROOM ENLARGEMENTS	Phase: FINAL BID DOCUMENTS	Project Title: EHRM INFRASTRUCTURE UPGRADES - MILWAUKEE, WI	Project Number: 695-21-700
			Building Number:
Approved:	Sprinklered: FULLY SPRINKLERED	Location: 5000 W. NATIONAL AVENUE MILWAUKEE, WI	Drawing Number: TN327
		Issue Date: SEPTEMBER 05, 2025 / Checked: PHINIE / Drawn: MAIBEJ	

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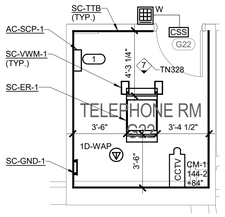

1 TELECOM ROOM ENLARGEMENT TR-144-G22

1/4" = 1'-0"

NOTES:

1. REFER TO 1/TN401 FOR BONDING BUS BAR DETAIL.
2. REFER TO 2/TN401 FOR TYPICAL TELECOM ROOM BONDING FLOW DIAGRAM.
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KEYNOTES:

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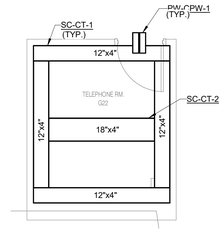
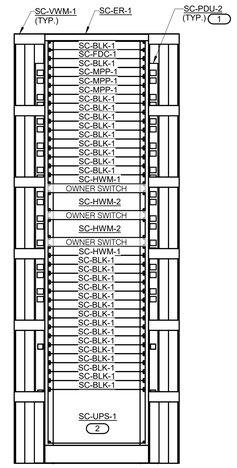


2 TELECOM ROOM PATHWAYT TR-144-G22

1/4" = 1'-0"

NOTES:

1. LADDER RACK SHALL BE MOUNTED 6" ABOVE THE TOP OF THE TELECOM RACKS/CABINETS.



7 EQUIPMENT RACK ELEVATION TR-144-G22

NO SCALE

NOTES:

1. ALL EQUIPMENT SHALL BE LOCATED IN ITS DESIGNATED LOCATION AS DEFINED BY THIS LAYOUT UNLESS OTHERWISE NOTED. ALL EQUIPMENT IS SIZED BY RACK UNITS (RU). ACCORDING TO THE BASIS OF DESIGN MANUFACTURER AND MODEL NUMBER. THE FINAL LAYOUT AND EQUIPMENT SIZE MAY VARY BASED ON THE FINAL SELECTION OF THE EQUIPMENT. ANY CHANGES TO THE LAYOUT SHOWN ABOVE SHALL BE COORDINATED WITH THE C.O.R. PRIOR TO INSTALLATION. REFER TO THE GENERAL TECHNOLOGY EQUIPMENT SCHEDULE AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.
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KEYNOTES: (#)

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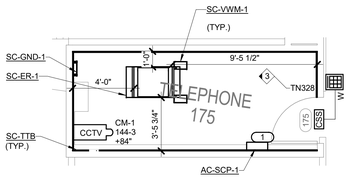

4 TELECOM ROOM ENLARGEMENT TR-144-175

1/4" = 1'-0"

NOTES:

1. REFER TO 1/TN401 FOR BONDING BUS BAR DETAIL.
2. REFER TO 2/TN401 FOR TYPICAL TELECOM ROOM BONDING FLOW DIAGRAM.
3. REFER TO 3/TN401 FOR TECHNOLOGY BONDING RISER DIAGRAM.
4. PROVIDE A MINIMUM OF 10 FEET OF COILED FIBER FOR BOTH LEGS "A" AND "B".
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KEYNOTES:

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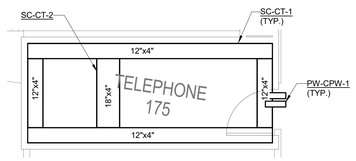
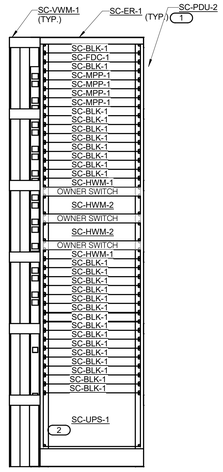


5 TELECOM ROOM PATHWAY TR-144-175

1/4" = 1'-0"

NOTES:

1. LADDER RACK SHALL BE MOUNTED 6" ABOVE THE TOP OF THE TELECOM RACKS/CABINETS.



3 EQUIPMENT RACK ELEVATION TR-144-175

NO SCALE

NOTES:

1. ALL EQUIPMENT SHALL BE LOCATED IN ITS DESIGNATED LOCATION AS DEFINED BY THIS LAYOUT UNLESS OTHERWISE NOTED. ALL EQUIPMENT IS SIZED BY RACK UNITS (RU). ACCORDING TO THE BASIS OF DESIGN MANUFACTURER AND MODEL NUMBER. THE FINAL LAYOUT AND EQUIPMENT SIZE MAY VARY BASED ON THE FINAL SELECTION OF THE EQUIPMENT. ANY CHANGES TO THE LAYOUT SHOWN ABOVE SHALL BE COORDINATED WITH THE C.O.R. PRIOR TO INSTALLATION. REFER TO THE GENERAL TECHNOLOGY EQUIPMENT SCHEDULE AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.
2. FIBER DISTRIBUTION FOR LEG "A" SHALL BE ON THE LEFT SIDE OF THE FIBER PANEL, LEG "B" SHALL BE ON THE RIGHT SIDE.
3. RACK BONDING BUS BAR (SC-GND-2) TO BE LOCATED AT REAR OF RACK, RACK UNIT 45. RACK BONDING BAR SHALL BE DUAL LUG HOLE SUITABLE FOR #6 AWG BONDING CONDUCTORS

KEYNOTES: (#)

1. CONTRACTOR TO FURNISH AND INSTALL TWO (2) SC-PDU-2 PER RACK, MOUNTED AT THE REAR OF THE RACK, ONE (1) PER SIDE.
2. REFER TO ELECTRICAL PLANS AND SPECIFICATIONS FOR UPS INFORMATION.

35% SCHEMATIC DESIGN SUBMISSION	5.17.21
65% DESIGN DEVELOPMENT SUBMISSION	6.15.21
65% DESIGN DEVELOPMENT RESUBMISSION	8.25.21
Revisions:	Date:

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Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title TECHNOLOGY ROOM ENLARGEMENTS	**Phase** FINAL BID DOCUMENTS	**Project Title** EHRM INFRASTRUCTURE UPGRADES - MILWAUKEE, WI	**Project Number** 695-21-700
			Building Number
Approved:	**Sprinklered** FULLY SPRINKLERED	**Location** 5000 W. NATIONAL AVENUE MILWAUKEE, WI	**Drawing Number** TN328
		Issue Date SEPTEMBER 05, 2025 / **Checked** PHINIE / **Drawn** MAIBEJ	

VA FORM 08 - 6231

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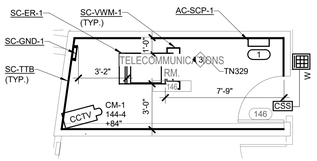


1 TELECOM ROOM ENLARGEMENT TR-144-146

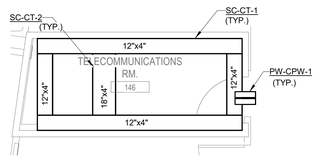
1/4" = 1'-0"

NOTES:

1. REFER TO 1/TN401 FOR BONDING BUS BAR DETAIL.
2. REFER TO 2/TN401 FOR TYPICAL TELECOM ROOM BONDING FLOW DIAGRAM.
3. REFER TO 3/TN401 FOR TECHNOLOGY BONDING RISER DIAGRAM.
4. PROVIDE A MINIMUM OF 10 FEET OF COILED FIBER FOR BOTH LEGS "A" AND "B".
5. CONTRACTOR SHALL COORDINATE CAMERA FIELD OF VIEW WITH CONTRACTING OFFICER PRIOR TO INSTALLATION.
6. CONTRACTOR TO PROVIDE 3' CLEAR ON EACH SIDE OF RACK AT A MINIMUM. IF ROOM SIZE IS NOT SUFFICIENT TO PROVIDE 3' ON EVERY SIDE OF RACK, THEN ONE SIDE CAN BE PLACED 1' FROM THE WALL. IF ROOM SIZE IS NOT SUFFICIENT FOR 3', 3', 3', 1', THEN CONTRACTOR SHALL NOTIFY A/E AND COR PRIOR TO ANY CONSTRUCTION BEING COMPLETED IN THE TR.

KEYNOTES:

1. COORDINATE WITH ELECTRICAL CONTRACTOR FOR POWER PROVISIONING.

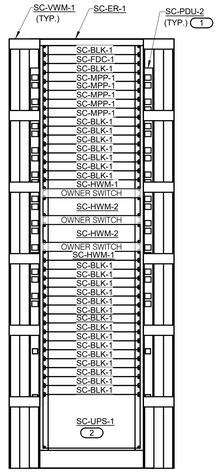


2 TELECOM ROOM PATHWAY TR-144-146

1/4" = 1'-0"

NOTES:

1. LADDER RACK SHALL BE MOUNTED 6" ABOVE THE TOP OF THE TELECOM RACKS/CABINETS.



3 EQUIPMENT RACK ELEVATION TR-144-146

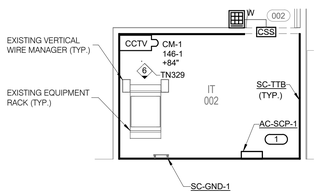
NO SCALE

NOTES:

1. ALL EQUIPMENT SHALL BE LOCATED IN ITS DESIGNATED LOCATION AS DEFINED BY THIS LAYOUT UNLESS OTHERWISE NOTED. ALL EQUIPMENT IS SIZED BY RACK UNITS (RU) ACCORDING TO THE BASIS OF DESIGN MANUFACTURER AND MODEL NUMBER. THE FINAL LAYOUT AND EQUIPMENT SIZE MAY VARY BASED ON THE FINAL SELECTION OF THE EQUIPMENT. ANY CHANGES TO THE LAYOUT SHOWN ABOVE SHALL BE COORDINATED WITH THE C.O.R. PRIOR TO INSTALLATION. REFER TO THE GENERAL TECHNOLOGY EQUIPMENT SCHEDULE AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.
2. FIBER DISTRIBUTION FOR LEG "A" SHALL BE ON THE LEFT SIDE OF THE FIBER PANEL, LEG "B" SHALL BE ON THE RIGHT SIDE.
3. RACK BONDING BUS BAR (SC-GND-2) TO BE LOCATED AT REAR OF RACK, RACK UNIT 45. RACK BONDING BAR SHALL BE DUAL LUG HOLE SUITABLE FOR #6 AWG BONDING CONDUCTORS

KEYNOTES: (#)

1. CONTRACTOR TO FURNISH AND INSTALL TWO (2) SC-PDU-2 PER RACK, MOUNTED AT THE REAR OF THE RACK, ONE (1) PER SIDE.
2. REFER TO ELECTRICAL PLANS AND SPECIFICATIONS FOR UPS INFORMATION.



4 TELECOM ROOM ENLARGEMENT TR-146-005

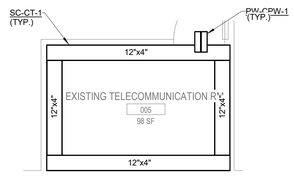
1/4" = 1'-0"

NOTES:

1. DEVICES IN TR-146-005 TO REMAIN.
2. PROVIDE AND TERMINATE TWO (2) LEGS OF BACKBONE FIBER.
3. CONTRACTOR SHALL COORDINATE CAMERA FIELD OF VIEW WITH CONTRACTING OFFICER PRIOR TO INSTALLATION.
4. EXISTING RACK AND LADDER RACK TO REMAIN.
5. CONTRACTOR TO PROVIDE 3' CLEAR ON EACH SIDE OF RACK AT A MINIMUM. IF ROOM SIZE IS NOT SUFFICIENT TO PROVIDE 3' ON EVERY SIDE OF RACK, THEN ONE SIDE CAN BE PLACED 1' FROM THE WALL. IF ROOM SIZE IS NOT SUFFICIENT FOR 3', 3', 3', 1', THEN CONTRACTOR SHALL NOTIFY A/E AND COR PRIOR TO ANY CONSTRUCTION BEING COMPLETED IN THE TR.

KEYNOTES:

1. COORDINATE WITH ELECTRICAL CONTRACTOR FOR POWER PROVISIONING.

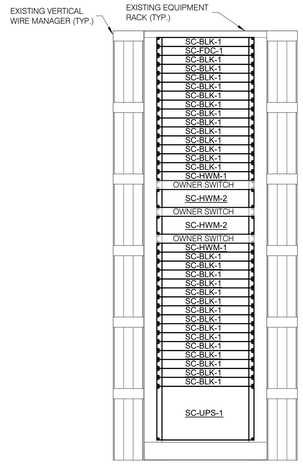


5 TELECOM ROOM PATHWAY TR-146-005

1/4" = 1'-0"

NOTES:

1. LADDER RACK SHALL BE MOUNTED 6" ABOVE THE TOP OF THE TELECOM RACKS/CABINETS.



6 EQUIPMENT RACK ELEVATION TR-146-005

1" = 1'-0"

NOTES:

1. ALL EQUIPMENT SHALL BE LOCATED IN ITS DESIGNATED LOCATION AS DEFINED BY THIS LAYOUT UNLESS OTHERWISE NOTED. ALL EQUIPMENT IS SIZED BY RACK UNITS (RU) ACCORDING TO THE BASIS OF DESIGN MANUFACTURER AND MODEL NUMBER. THE FINAL LAYOUT AND EQUIPMENT SIZE MAY VARY BASED ON THE FINAL SELECTION OF THE EQUIPMENT. ANY CHANGES TO THE LAYOUT SHOWN ABOVE SHALL BE COORDINATED WITH THE C.O.R. PRIOR TO INSTALLATION. REFER TO THE GENERAL TECHNOLOGY EQUIPMENT SCHEDULE AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.

Revisions:	Date:
35% SCHEMATIC DESIGN SUBMISSION	5.17.21
65% DESIGN DEVELOPMENT SUBMISSION	6.15.21
65% DESIGN DEVELOPMENT RESUBMISSION	8.25.21

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PROJECT #18004375.03

ARCHITECT/ENGINEER OF RECORD

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BICSI ID # 106098
EXPIRES 12-31-25
RCDD

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: TECHNOLOGY ROOM ENLARGEMENTS

Approved:

Phase: FINAL BID DOCUMENTS

Sprinklered: FULLY SPRINKLERED

Project Title: EHRM INFRASTRUCTURE UPGRADES - MILWAUKEE, WI

Location: 5000 W. NATIONAL AVENUE MILWAUKEE, WI

Issue Date: SEPTEMBER 05, 2025

Checked: PHINIE

Drawn: MAIBEJ

Project Number: 695-21-700

Building Number:

Drawing Number: TN329

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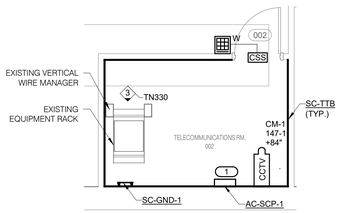


1 TELECOM ROOM ENLARGEMENT TR-147-002

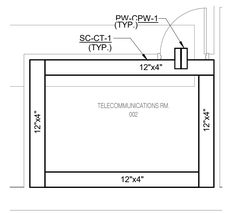
1/4" = 1'-0"

NOTES:

1. DEVICES IN TR-147-002 TO REMAIN.
2. PROVIDE AND TERMINATE TWO (2) LEGS OF BACKBONE FIBER.
3. CONTRACTOR SHALL COORDINATE CAMERA FIELD OF VIEW WITH CONTRACTING OFFICER PRIOR TO INSTALLATION.
4. EXISTING RACK AND LADDER RACK TO REMAIN.
5. CONTRACTOR TO PROVIDE 3' CLEAR ON EACH SIDE OF RACK AT A MINIMUM. IF ROOM SIZE IS NOT SUFFICIENT TO PROVIDE 3' ON EVERY SIDE OF RACK, THEN ONE SIDE CAN BE PLACED 1' FROM THE WALL. IF ROOM SIZE IS NOT SUFFICIENT FOR 3', 3', 3', 1', THEN CONTRACTOR SHALL NOTIFY A/E AND COR PRIOR TO ANY CONSTRUCTION BEING COMPLETED IN THE TR.

KEYNOTES:

1. COORDINATE WITH ELECTRICAL CONTRACTOR FOR POWER PROVISIONING.

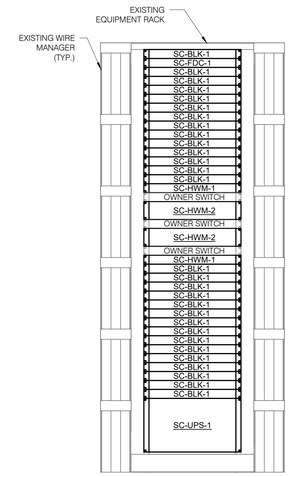


4 TELECOM ROOM PATHWAY TR-147-002

1/4" = 1'-0"

NOTES:

1. LADDER RACK SHALL BE MOUNTED 6" ABOVE THE TOP OF THE TELECOM RACKS/CABINETS.

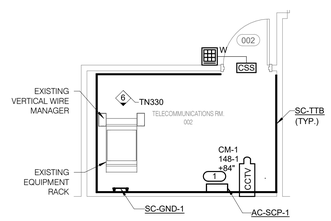


3 EQUIPMENT RACK ELEVATION TR-147-002

1" = 1'-0"

NOTES:

1. ALL EQUIPMENT SHALL BE LOCATED IN ITS DESIGNATED LOCATION AS DEFINED BY THIS LAYOUT UNLESS OTHERWISE NOTED. ALL EQUIPMENT IS SIZED BY RACK UNITS (RU) ACCORDING TO THE BASIS OF DESIGN MANUFACTURER AND MODEL NUMBER. THE FINAL LAYOUT AND EQUIPMENT SIZE MAY VARY BASED ON THE FINAL SELECTION OF THE EQUIPMENT. ANY CHANGES TO THE LAYOUT SHOWN ABOVE SHALL BE COORDINATED WITH THE C.O.R. PRIOR TO INSTALLATION. REFER TO THE GENERAL TECHNOLOGY EQUIPMENT SCHEDULE AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.



2 TELECOM ROOM ENLARGEMENT TR-148-002

1/4" = 1'-0"

NOTES:

1. DEVICES IN TR-148-002 TO REMAIN.
2. PROVIDE AND TERMINATE TWO (2) LEGS OF BACKBONE FIBER.
3. CONTRACTOR SHALL COORDINATE CAMERA FIELD OF VIEW WITH CONTRACTING OFFICER PRIOR TO INSTALLATION.
4. EXISTING RACK AND LADDER RACK TO REMAIN.
5. CONTRACTOR TO PROVIDE 3' CLEAR ON EACH SIDE OF RACK AT A MINIMUM. IF ROOM SIZE IS NOT SUFFICIENT TO PROVIDE 3' ON EVERY SIDE OF RACK, THEN ONE SIDE CAN BE PLACED 1' FROM THE WALL. IF ROOM SIZE IS NOT SUFFICIENT FOR 3', 3', 3', 1', THEN CONTRACTOR SHALL NOTIFY A/E AND COR PRIOR TO ANY CONSTRUCTION BEING COMPLETED IN THE TR.

KEYNOTES:

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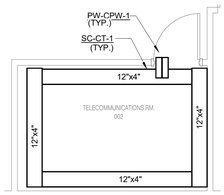
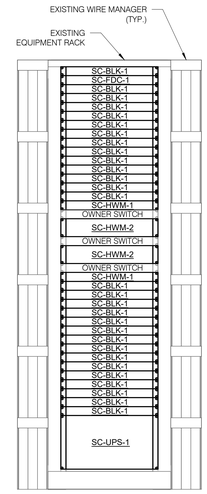


5 TELECOM ROOM PATHWAY TR-148-002

1/4" = 1'-0"

NOTES:

1. LADDER RACK SHALL BE MOUNTED 6" ABOVE THE TOP OF THE TELECOM RACKS/CABINETS.



6 EQUIPMENT RACK ELEVATION TR-148-002

1" = 1'-0"

NOTES:

1. ALL EQUIPMENT SHALL BE LOCATED IN ITS DESIGNATED LOCATION AS DEFINED BY THIS LAYOUT UNLESS OTHERWISE NOTED. ALL EQUIPMENT IS SIZED BY RACK UNITS (RU) ACCORDING TO THE BASIS OF DESIGN MANUFACTURER AND MODEL NUMBER. THE FINAL LAYOUT AND EQUIPMENT SIZE MAY VARY BASED ON THE FINAL SELECTION OF THE EQUIPMENT. ANY CHANGES TO THE LAYOUT SHOWN ABOVE SHALL BE COORDINATED WITH THE C.O.R. PRIOR TO INSTALLATION. REFER TO THE GENERAL TECHNOLOGY EQUIPMENT SCHEDULE AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.

Revisions:	Date:
35% SCHEMATIC DESIGN SUBMISSION	5.17.21
65% DESIGN DEVELOPMENT SUBMISSION	6.15.21
65% DESIGN DEVELOPMENT RESUBMISSION	8.25.21

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RCDD

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: TECHNOLOGY ROOM ENLARGEMENTS	Phase: FINAL BID DOCUMENTS	Project Title: EHRM INFRASTRUCTURE UPGRADES - MILWAUKEE, WI	Project Number: 695-21-700
Approved:	Sprinklered: FULLY SPRINKLERED	Location: 5000 W. NATIONAL AVENUE MILWAUKEE, WI	Building Number:
		Issue Date: SEPTEMBER 05, 2025 / Checked: PHINIE / Drawn: MAIBEJ	Drawing Number: TN330

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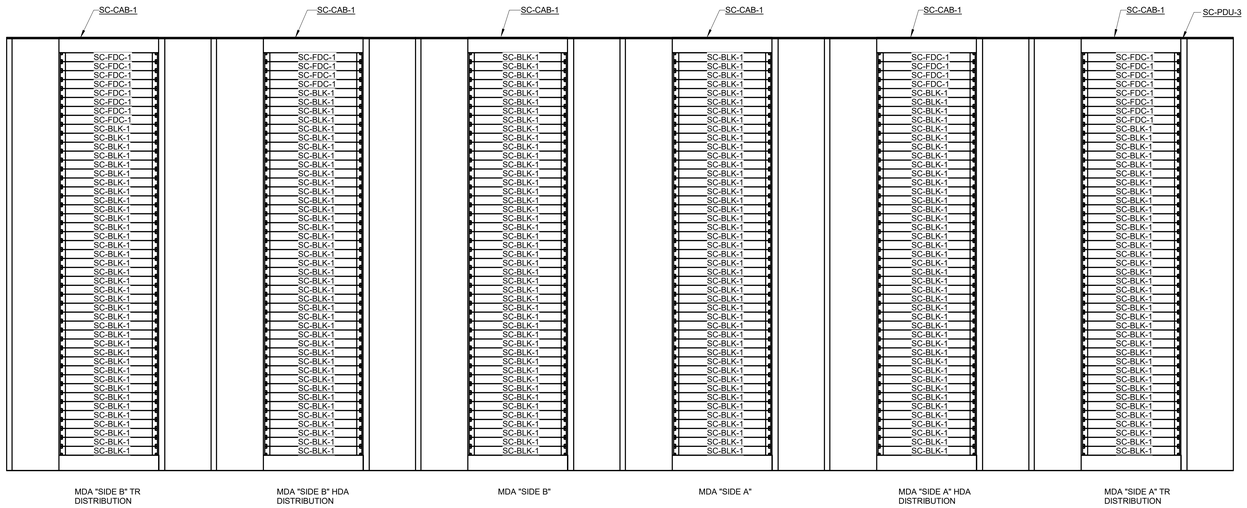
Graphic Scale: 1/4" = 1'-0"
Graphic Scale: 1/8" = 1'-0"
Graphic Scale: 3/32" = 1'-0"
Graphic Scale: 3/8" = 1'-0"
Graphic Scale: 1/2" = 1'-0"
Graphic Scale: 3/4" = 1'-0"
Graphic Scale: 1" = 1'-0"
Graphic Scale: 1 1/2" = 1'-0"



1 EQUIPMENT RACK ELEVATION MCR-111-1474J (ROW 1)

1" = 1'-0"

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PROJECT # 18004375.03
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Revisions:	Date:

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Consultant: IMEG

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A/E: Romanyk Consulting
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VA U.S. Department of Veterans Affairs

Drawing Title: TECHNOLOGY ROOM ENLARGEMENTS	Phase: 65% DESIGN DEVELOPMENT RESUBMISSION	Project Title: EHRM INFRASTRUCTURE UPGRADES - MILWAUKEE, WI	Project Number: 695-21-700
			Building Number: 300
Approved: VA: Approver PM: Dave Larson	Sprinklered: FULLY SPRINKLERED	Location: VA Medical Center, Milwaukee, WI	Drawing Number: TN331
		Issue Date: SEPTEMBER 05, 2025 / Checked: PHINIE / Drawn: MAIBEJ	of

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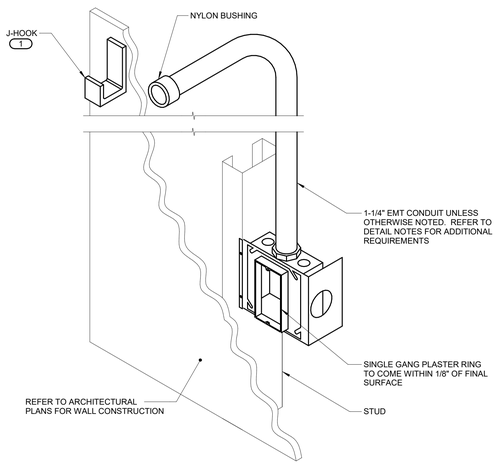
Graphic Scale: 1/16" = 1'-0" (0' 8' 16' 32')
Graphic Scale: 1/8" = 1'-0" (0' 4' 8' 16')
Graphic Scale: 3/32" = 1'-0" (0' 4" 8" 1' 2')
Graphic Scale: 1/4" = 1'-0" (0' 1' 2' 4')
Graphic Scale: 3/8" = 1'-0" (0' 1' 2' 4')
Graphic Scale: 1/2" = 1'-0" (0' 1' 2' 4')
Graphic Scale: 3/4" = 1'-0" (0' 6" 1' 2')
Graphic Scale: 1" = 1'-0" (0' 6" 1' 2')
Graphic Scale: 1 1/2" = 1'-0" (0' 3" 6" 1' 1' 6")

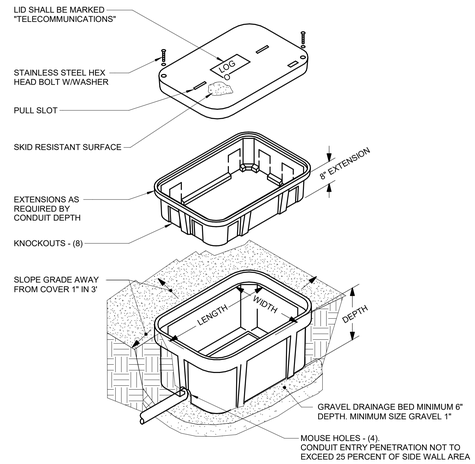


1 TECHNOLOGY ROUGH-IN TO J-HOOK DETAIL

NO SCALE

NOTES:
1. 1-1/4" EMT CONDUIT SHALL STUB UP TO NEAREST ACCESSIBLE CEILING AND TERMINATE ORIENTED HORIZONTALLY AT THE HEIGHT OF THE ASSOCIATED CABLE TRAY OR J-HOOK ROUTE. CONDUIT RUN SHALL NOT CONTAIN MORE THAN 180 DEGREES OF BEND BETWEEN ACCESSIBLE JUNCTION BOXES OR BETWEEN JUNCTION BOX AND END OF CONDUIT.
2. WHERE CONDUIT STUB IS LOCATED IN A ROOM WITH AN ACCESSIBLE CEILING AND IS NOT REQUIRED TO RUN TO CABLE ROUTE LOCATED OUTSIDE THE ROOM, STUB MUST TERMINATE ABOVE THE ACCESSIBLE CEILING WITH A 90-DEGREE BEND AT THE TOP ORIENTED IN TO THE ROOM AT THE HEIGHT OF THE ASSOCIATED CABLE TRAY OR J-HOOK ROUTE IN THE ROOM.
3. ALL STUBS MUST BE FITTED WITH A NYLON BUSHING ON EACH END OF THE CONDUIT.
4. INSTALLING CONTRACTOR SHALL FURNISH AND INSTALL FIRESTOP MATERIALS FOR TECHNOLOGY ROUGH-INS PER PROJECT REQUIREMENTS. REFER TO SPECIFICATIONS FOR FIRESTOP REQUIREMENTS.
5. SCOPE OF WORK INCLUDES RE-USE OF THE EXISTING TELECOMMUNICATIONS OUTLET ROUGH-INS FOR FOUR (4) SMALL OUTER DIAMETER NEW CAT 6A CABLES. REFER TO SPECIFICATIONS FOR CAT6A CABLE, MAXIMUM OUTER DIAMETER OF 0.230". WHERE FIVE (5) OR MORE CAT 6A CABLES ARE REQUIRED, PROVIDE AND INSTALL A NEW CONDUIT AND BACKBOX, REFER TO DETAIL 1/TN400 FOR ADDITIONAL INFORMATION. THE CONDUIT SIZE SHALL BE BASED ON 40% FILL. WHERE A 1.5" CONDUIT IS REQUIRED, A 5" SQUARE BACKBOX IS REQUIRED.

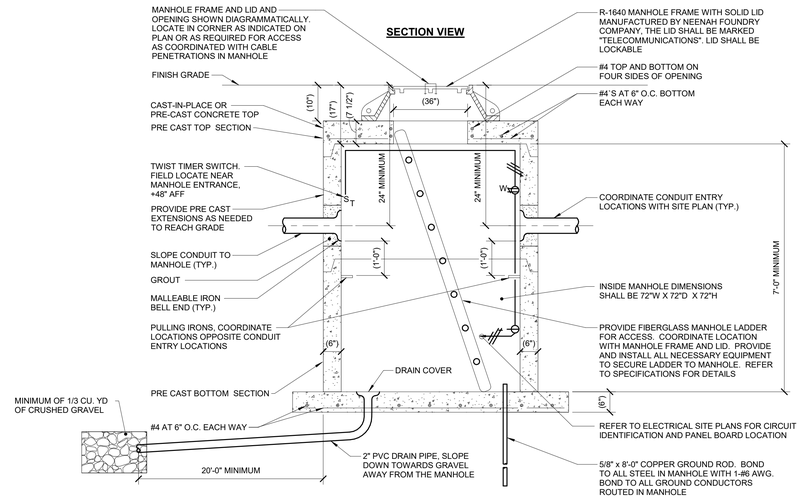
KEYNOTES:
1. MOUNT A DEDICATED J-HOOK TO THE NEAREST CEILING SUBSTRUCTURE, COLUMN, JOIST, OR WALL ABOVE THE CEILING AS SHOWN ON THE DRAWINGS. PROVIDE THE PROPER SUPPORT WHEN HANGING FROM THE CEILING SUBSTRUCTURE OR COLUMN WALL OR JOIST. REFER TO SPECIFICATION SECTION 27 05 28 FOR ADDITIONAL REQUIREMENTS.



2 EXTERIOR HAND HOLE DETAIL

NO SCALE

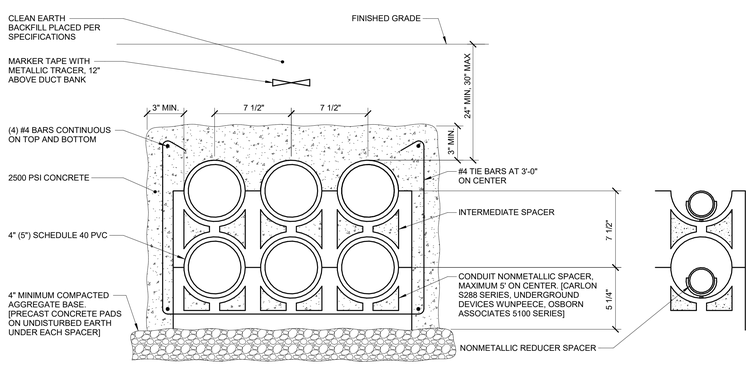
NOTES:
1. REFER TO TECHNOLOGY SITE PLAN SHEET T1003, AND TECHNOLOGY EQUIPMENT SCHEDULE SHEET T-600 FOR ADDITIONAL INFORMATION INCLUDING SIZE.
2. ANY SPLICES OR DEVICES IN HANDHOLE SHALL BE SUBMERGIBLE.



3 TELECOMMUNICATIONS MANHOLE DETAIL

NO SCALE

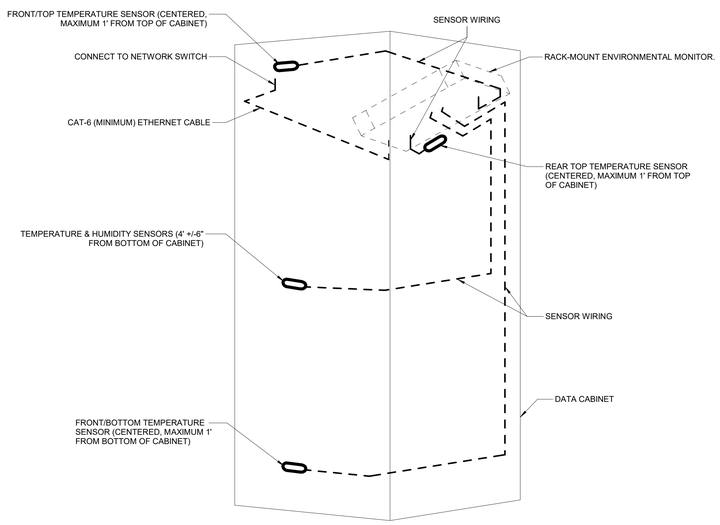
NOTES:
1. DETAIL SHOWN DIAGRAMMATICALLY. REFER TO T1003 FOR MANHOLE LOCATIONS.
2. DETAIL IS TYPICAL OF ALL MANHOLES.
3. A MINIMUM OF 50' OF EACH FIBER CABLE SHALL BE COILED IN EACH MAINTENANCE HOLE.
4. MINIMUM INTERIOR DIMENSIONS OF 72" X 72" X 72".



4 DUCT BANK DETAIL (3x2)

NO SCALE

NOTES:
1. INSTALL 2000 lb TENSILE STRENGTH BRAIDED POLYPROPYLENE PULL CORD IN ALL CONDUITS.
2. TRENCHING AND BACKFILL ACCORDING TO SPECIFICATIONS.
3. MINIMUM OF 4'-0" CLEAR BETWEEN ADJACENT DUCTBANKS.
4. DOWEL ENDS OF DUCTBANK TO FOUNDATION OR MANHOLE WITH A MINIMUM OF (4) #4 DOWELS.



5 DATA CABINET MONITORING DETAIL

NO SCALE

NOTES:
1. ATTACH SENSORS TO DATA CABINET/RACK. DO NOT ATTACH TO CABINET DOOR.
2. REFER TO TELECOM ELEVATIONS FOR EXACT LOCATION OF ENVIRONMENTAL MONITOR.

Revisions:	Date:
35% SCHEMATIC DESIGN SUBMISSION	5.17.21
65% DESIGN DEVELOPMENT SUBMISSION	6.15.21
65% DESIGN DEVELOPMENT RESUBMISSION	8.25.21

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Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: TECHNOLOGY DETAILS	Phase: FINAL BID DOCUMENTS	Project Title: EHRM INFRASTRUCTURE UPGRADES - MILWAUKEE, WI	Project Number: 695-21-700
			Building Number:
Approved:	Sprinklered: FULLY SPRINKLERED	Location: 5000 W. NATIONAL AVENUE MILWAUKEE, WI	Drawing Number: TN400
		Issue Date: SEPTEMBER 05, 2025 / Checked: PHINIE / Drawn: MAIBEJ	

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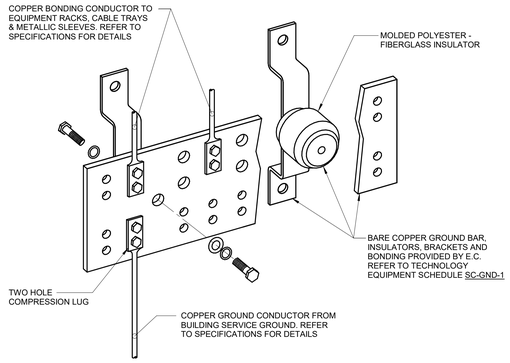
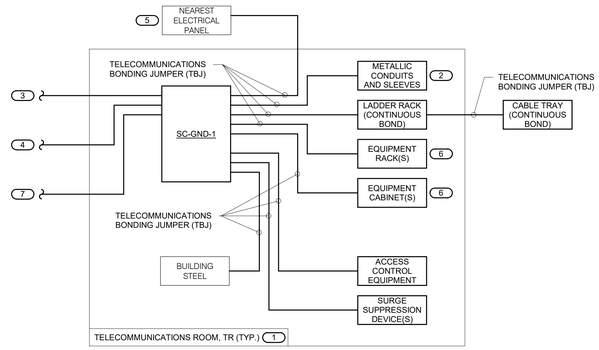


1 BONDING BUS BAR DETAIL

NO SCALE

NOTES:
1. REFER TO TECHNOLOGY EQUIPMENT SCHEDULE SC-GND-1 FOR WIDTH REQUIREMENTS.
2. REFER TO THIS SHEET FOR TYPICAL TELECOM ROOM BONDING FLOW DIAGRAM.
3. REFER TO SPECIFICATION SECTION 270526 FOR ADDITIONAL INFORMATION.
4. #6 LUGS ARE 2 HOLE LUGS WITH 1/4" HARDWARE.
5. #2, 2/0 AND 4/0 LUGS ARE 2 HOLE LUGS WITH 3/8" HARDWARE.

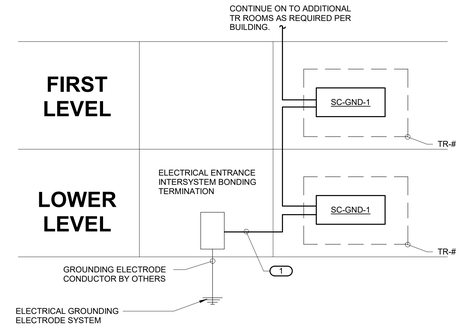


2 TYPICAL TELECOM ROOM BONDING FLOW DIAGRAM

NO SCALE

NOTES:
1. THIS FLOW DIAGRAM IS DIAGRAMMATIC AND MAY NOT SHOW ACTUAL ROUTING OR QUANTITIES OF MATERIALS. THIS FLOW DIAGRAM IS SHOWN FOR CLARIFICATION OF CONNECTION LOCATIONS AND CONDUCTOR TYPE. ALL CONNECTIONS AND SYSTEM DEVICES SHOWN ARE TYPICAL AND NOT REPRESENTATIVE OF ACTUAL PROJECT QUANTITIES. REFER TO FLOOR PLANS AND ENLARGED FLOOR PLANS FOR ACTUAL QUANTITIES AND LOCATIONS OF DEVICES AND MORE SPECIFIC ROUTING INFORMATION. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
2. ALL CONDUCTORS IN THE TECHNOLOGY BONDING SYSTEM SHALL BE MINIMUM SIZE OF 6 AWG PLENUM RATED COPPER (GREEN OR MARKED WITH A DISTINCTIVE GREEN COLOR) UNLESS CONDUCTOR LENGTH IS LESS THAN 66 FEET. REFER TO BONDING CONDUCTOR SIZING SCHEDULE FOR SIZING CRITERIA FOR CONDUCTORS LESS THAN 66 FEET IN LENGTH. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
3. ALL BONDING CONDUCTORS AND BONDING JUMPERS SHALL BE CONNECTED BY COMPRESSION LUGS, EXOTHERMIC WELDING, OR IRREVERSIBLE COMPRESSION CONNECTORS. SOLDER IS NOT AN ACCEPTABLE MEANS OF CONNECTION. SHEET METAL SCREWS SHALL NOT BE USED TO CONNECT COMMUNICATIONS BONDING CONDUCTORS TO EQUIPMENT. WHERE NECESSARY, REMOVE PAINT AND/OR USE PAINT-PIERCING WASHERS TO PROVIDE PROPER ELECTRICAL BOND AT ALL CONNECTIONS.
4. REFER TO SPECIFICATION SECTION 270526 FOR ADDITIONAL INFORMATION.

KEYNOTES: (#)
1. REFER TO TELECOM ROOM REFERENCES SCHEDULE ON DRAWING T1001 FOR TELECOMMUNICATIONS ROOM NUMBER AND LOCATION INFORMATION.
2. INCLUDES HORIZONTAL AND VERTICAL CONDUIT SLEEVES FOR TECHNOLOGY CABLING.
3. TELECOMMUNICATIONS BONDING BACKBONE (TBB). REFER TO 3/TN401 FOR TELECOMMUNICATIONS BONDING RISER DIAGRAM.
4. BONDING CONDUCTOR FOR TELECOMMUNICATIONS (BCT), TO ELECTRICAL ENTRANCE INTERSYSTEM BONDING TERMINATION. REFER TO 3/TN401 FOR TELECOMMUNICATIONS BONDING RISER DIAGRAM FOR CONTINUATION AND ADDITIONAL INFORMATION AND REQUIREMENTS. THIS CONNECTION OCCURS IN MC-1 ONLY.
5. REFER TO THE ELECTRICAL DRAWINGS FOR LOCATION.
6. PROVIDE RACK MOUNT TELECOMMUNICATIONS BONDING BUSBAR AT EACH EQUIPMENT RACK AND CABINET.
7. BONDING EQUALIZER (BE). REFER TO 3/TN401 FOR TELECOMMUNICATIONS BONDING RISER DIAGRAM FOR CONTINUATION AND ADDITIONAL INFORMATION AND REQUIREMENTS ON TELECOMMUNICATIONS ROOMS THAT REQUIRE BONDING EQUALIZER CONNECTIONS.



3 TYPICAL TECHNOLOGY BONDING RISER DIAGRAM

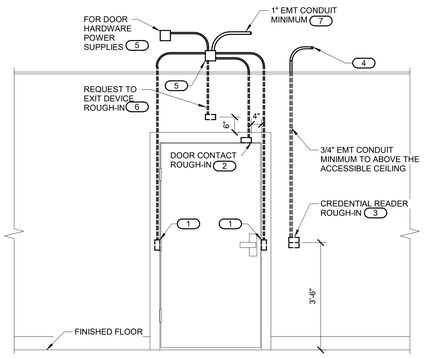
NO SCALE

NOTES:
1. THIS RISER IS DIAGRAMMATIC AND MAY NOT SHOW ACTUAL ROUTING OR QUANTITIES OF MATERIALS. THIS RISER IS SHOWN FOR CLARIFICATION OF CONNECTION LOCATIONS AND CONDUCTOR TYPE. ALL CONNECTIONS AND SYSTEM DEVICES SHOWN ARE TYPICAL AND NOT REPRESENTATIVE OF ACTUAL PROJECT QUANTITIES. REFER TO FLOOR PLANS AND ENLARGED FLOOR PLANS FOR ACTUAL QUANTITIES AND LOCATIONS OF DEVICES AND MORE SPECIFIC ROUTING INFORMATION. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS. THIS DIAGRAM REPRESENTS A MULTI-FLOOR BUILDING WITH MORE THAN ONE TELECOMMUNICATIONS ROOM ON EACH FLOOR. CONTRACTOR SHALL PROVIDE A COMPLETE BONDING SYSTEM FOR THE NUMBER OF FLOORS AND THE NUMBER OF TELECOMMUNICATIONS ROOMS PER FLOOR FOR THE BUILDINGS IN THE SCOPE OF WORK
2. ALL CONDUCTORS IN THE TECHNOLOGY BONDING SYSTEM SHALL BE MINIMUM SIZE OF 6 AWG PLENUM RATED COPPER (GREEN OR MARKED WITH A DISTINCTIVE GREEN COLOR) UNLESS CONDUCTOR LENGTH IS LESS THAN 66 FEET. REFER TO BONDING CONDUCTOR SIZING SCHEDULE FOR SIZING CRITERIA FOR CONDUCTORS LESS THAN 66 FEET IN LENGTH. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
3. ALL BONDING CONDUCTORS AND BONDING JUMPERS SHALL BE CONNECTED BY COMPRESSION LUGS, EXOTHERMIC WELDING, OR IRREVERSIBLE COMPRESSION CONNECTORS. SOLDER IS NOT AN ACCEPTABLE MEANS OF CONNECTION. SHEET METAL SCREWS SHALL NOT BE USED TO CONNECT COMMUNICATIONS BONDING CONDUCTORS TO EQUIPMENT. WHERE NECESSARY, REMOVE PAINT AND/OR USE PAINT-PIERCING WASHERS TO PROVIDE PROPER ELECTRICAL BOND AT ALL CONNECTIONS.
4. REFER TO 2/TN401 FOR TYPICAL TELECOM ROOM BONDING FLOW DIAGRAM.
5. REFER TO TELECOM ROOM REFERENCES SCHEDULE ON DRAWING T1001 FOR TELECOMMUNICATIONS ROOM NUMBER AND LOCATION INFORMATION.
6. THIS RISER IS A TYPICAL DIAGRAM FOR A GENERIC BUILDING. FINAL QUANTITY OF BONDING CONNECTIONS IS BASED ON THE NUMBER OF TRS IN THE SPECIFIC BUILDINGS IN THIS SCOPE OF WORK. (#)

KEYNOTES:
1. BONDING CONDUCTOR FOR TELECOMMUNICATIONS (BCT). BCT SHALL BE THE SAME SIZE AS THE TBB OR LARGER. REFER TO BONDING CONDUCTOR SIZING SCHEDULE FOR SIZING REQUIREMENTS.

BONDING CONDUCTOR SIZING SCHEDULE

CONDUCTOR LENGTH IN FEET	MINIMUM ACCEPTABLE SIZE - AWG
LESS THAN 13'	6
14' - 20'	4
21' - 26'	3
27' - 33'	2
34' - 41'	1
42' - 52'	1/0
53' - 66'	2/0
67' - 84'	3/0
85' - 105'	4/0
6' - 125'	250 kcmil
126' - 150'	300 kcmil
151' - 175'	350 kcmil
176' - 250'	500 kcmil
251' - 300'	600 kcmil
GREATER THAN 301'	750 kcmil



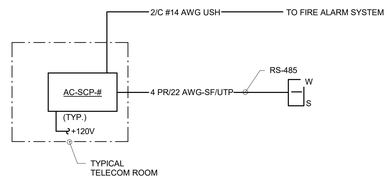
DOOR FRAME ROUGH-IN DIAGRAM
(ALL SINGLE DOORS)

4 CONTROLLED SECURITY SCHEME DOOR ROUGH-IN DETAIL

NO SCALE

NOTES:
1. CONFIGURATIONS SHOWN IN THE DETAIL ABOVE ARE DIAGRAMMATIC, INTENDED TO DESCRIBE THE CONTROLLED SECURITY SCHEME ROUGH-IN REQUIREMENTS OF THE DOORS. DETAILS ABOVE MAY NOT ACCURATELY REPRESENT DOOR SIZE, DOOR SWING, DOOR HARDWARE, OR DOOR FUNCTIONALITY. REFER TO ARCHITECTURAL DOOR HARDWARE SCHEDULE, DOOR HARDWARE GROUPS AND DOOR HARDWARE SPECIFICATIONS FOR COMPLETE INFORMATION. MIRROR THE DETAIL AS REQUIRED.
2. ROUGH IN SHOWN IN THE DETAIL ABOVE REPRESENTS THE MINIMUM REQUIREMENTS FOR ALL CONTROLLED SECURITY SYSTEM DEVICES AND CABLING UNLESS OTHERWISE NOTED. COORDINATE EXACT REQUIREMENTS WITH SELECTED DOOR MATERIALS, DOOR HARDWARE, AND CONTROLLED SECURITY DEVICES AND CABLING PRIOR TO INSTALLATION.
3. ALL CABLING IN WALLS AND WHERE EXPOSED ON VERTICAL SURFACES SHALL BE INSTALLED IN EMT CONDUIT OR SURFACE MOUNT RACEWAY. CABLING ROUTED HORIZONTALLY ABOVE THE ACCESSIBLE CEILING MAY BE INSTALLED FREE-AIR CABLING PROPERLY RATED FOR THE CEILING ENVIRONMENT.
4. THE ELECTRICAL OR SECURITY CONTRACTOR SHALL NOT MODIFY ANY FIRE RATED DOOR AND/OR DOOR FRAME. REFER TO THE ARCHITECTURAL DOOR SCHEDULE, DOOR HARDWARE SCHEDULE, AND DOOR HARDWARE SPECIFICATION FOR ADDITIONAL INFORMATION. MODIFICATION TO ANY FIRE RATED DOOR AND/OR FRAME WILL REQUIRE A RE-CERTIFICATION OF THE DOOR AND FRAME WITH THE LOCAL AUTHORITY HAVING JURISDICTION (AHJ).
5. INSTALLING CONTRACTOR SHALL FURNISH AND INSTALL FIRESTOP MATERIALS FOR ALL CONTROLLED SECURITY SCHEME ROUGH-INS PER PROJECT REQUIREMENTS. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION AND REQUIREMENTS.
6. REFER TO THE ACCESS CONTROL CONNECTIVITY RISER DIAGRAM WIRING DIAGRAM ON 5/TN401 FOR CABLING REQUIREMENTS AND THE CONTROLLED SECURITY SCHEME SCHEDULE ON TN601 FOR ADDITIONAL INFORMATION.
7. INSTALLATION SHALL INCLUDE ALL POWER REQUIRED FOR SYSTEM OPERATION INCLUDING +120VAC.

KEYNOTES: (#)
1. PROVIDE JUNCTION BOXES IN THE DOOR FRAME WHERE SHOWN ON THIS DETAIL. ROUGH-IN SHALL BE PROVIDED WHETHER THE CURRENT SECURITY SCHEME UTILIZES THEM OR NOT. ALL CONDUITS SHALL BE EMT CONDUIT UNLESS OTHERWISE NOTED. FLEXIBLE CONDUIT OF ANY TYPE WILL NOT BE ACCEPTED. COORDINATE INSTALLATION WITH ON-SITE DOOR FRAME INSTALLATION CONTRACTOR.
2. ALL DOOR POSITION SWITCHES ARE REQUIRED TO BE RECESSED UNLESS OTHERWISE NOTED. ELECTRIC HINGE MONITORS ARE NOT AN ACCEPTABLE REPLACEMENT FOR THE RECESSED DOOR POSITION SWITCH.
3. 4" SQUARE BACKBOX WITH SINGLE GANG PLASTER RING. PROVIDE 2 1/2" DEEP MASONRY BOX WHERE APPLICABLE. REFER TO FLOOR PLAN(S) FOR ACTUAL CREDENTIAL READER TYPE AND ROUGH-IN LOCATIONS.
4. CONDUIT SHALL ROUTE FROM THE CREDENTIAL READER TO THE SECURE SIDE OF THE DOOR. CONDUIT SHALL ROUTE TO THE MAIN TELECOM ROOM. PROVIDE A NYLON BUSHING ON CONDUIT END.
5. MOUNT A MINIMUM 4" SQUARE 2-1/8" DEEP JUNCTION BOX WITH BLANK COVER PLATE ON THE SECURE SIDE OF THE DOOR ABOVE ACCESSIBLE CEILING. INSTALLING CONTRACTOR SHALL SIZE THE JUNCTION BOXES PER SYSTEM INSTALLATION REQUIREMENTS AND APPLICABLE CODES. MAINTAIN ACCESS TO THE JUNCTION BOX.
6. PROVIDE A HORIZONTALLY MOUNTED SINGLE GANG BACKBOX FOR THE REQUEST TO EXIT SENSOR. REFER TO THE CONTROLLED SECURITY SCHEME SCHEDULE ON TN601 FOR DOORS THAT REQUIRE THIS ROUGH-IN.
7. CONDUIT SHALL ROUTE TO THE NEAREST SECURITY PANEL. PROVIDE A NYLON BUSHING ON CONDUIT END.
8. CONDUIT INSTALLED IN PERMANENT MULLIONS ONLY. REFER TO THE ARCHITECTURAL DOOR SCHEDULE AND DOOR HARDWARE GROUPS FOR LOCATIONS THAT REQUIRE THIS ROUGH-IN. PROVIDE A NYLON BUSHING ON THE CONDUIT END.



5 ACCESS CONTROL CONNECTIVITY DIAGRAM

NO SCALE

NOTES:
1. THIS DIAGRAM IS DIAGRAMMATIC AND MAY NOT SHOW ACTUAL DEVICE QUANTITIES OR LOCATIONS. ALL DEVICES SHOWN ARE TYPICAL AND MAY NOT REFLECT EVERY WIRE OR CONNECTION THAT MUST BE MADE. WIRING SHOWN ON THIS DIAGRAM REFLECTS THE REQUIREMENTS FOR THE BASIS OF DESIGN MANUFACTURER.
2. READER, DOOR POSITIONING SWITCH, REQUEST TO EXIST AND ELECTRONIC LOCKING INTEGRATED INTO DOOR HARDWARE.

Revisions:	Date:
35% SCHEMATIC DESIGN SUBMISSION	5.17.21
65% DESIGN DEVELOPMENT SUBMISSION	6.15.21
65% DESIGN DEVELOPMENT RESUBMISSION	8.25.21

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Drawing Title: TECHNOLOGY DETAILS

Approved:

Phase: FINAL BID DOCUMENTS

Sprinklered: FULLY SPRINKLERED

Project Title: EHRM INFRASTRUCTURE UPGRADES - MILWAUKEE, WI

Location: 5000 W. NATIONAL AVENUE MILWAUKEE, WI

Issue Date: SEPTEMBER 05, 2025 | Checked: PHINIE | Drawn: MAIBEJ

Project Number: 695-21-700

Building Number:

Drawing Number: TN401

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Graphic Scale: 16' = 1'-0" (0' 4' 8')
Graphic Scale: 2' = 1'-0" (0' 4" 8" 1' 2')
Graphic Scale: 4' = 1'-0" (0' 1' 2' 4')
Graphic Scale: 4' = 1'-0" (0' 1' 2' 4')
Graphic Scale: 1 1/2" = 1'-0" (0' 3" 6" 1' 1' 6")
Graphic Scale: 2' = 1'-0" (0' 6" 1' 2')
Graphic Scale: 2' = 1'-0" (0' 6" 1' 2')
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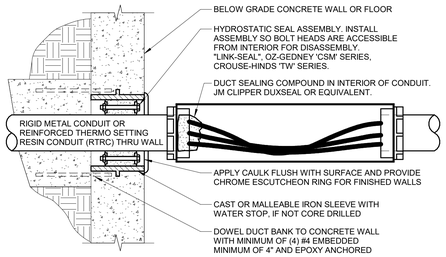
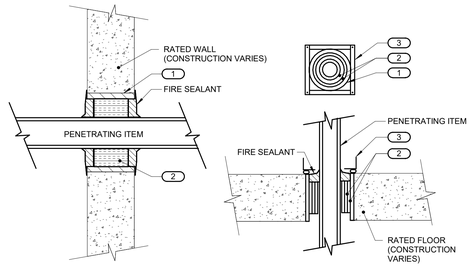


1 EXTERIOR WALL PENETRATION

NO SCALE

NOTES:

1. HYDROSTATIC SEAL SELECTION BASED ON OUTSIDE DIAMETER OF CONDUIT AND INSIDE DIAMETER OF SLEEVE OR BORE.
2. PROVIDE PULL BOX, CONDUIT FITTING OR AUXILIARY GUTTER, SIZED PER N.E.C. WITHIN 5' OF CONDUIT ENTRY TO ALLOW SEALING OF CONDUITS. BOX ORIENTATION IS DIAGRAMMATIC SEALING COMPOUND SHALL BE NON-HARDENING MATERIAL FOR WATERSTOP AND MOISTURE BARRIER, OZ/GEDNEY 'DUX' OR APPROVED EQUIVALENT SEAL BOTH ENDS OF EXTERIOR CONDUITS.
3. THIS DETAIL APPLIES TO ALL BELOW GRADE WALL AND FLOOR CONDUIT ENTRIES INTO BUILDING.



2 FIRE BARRIER PENETRATION

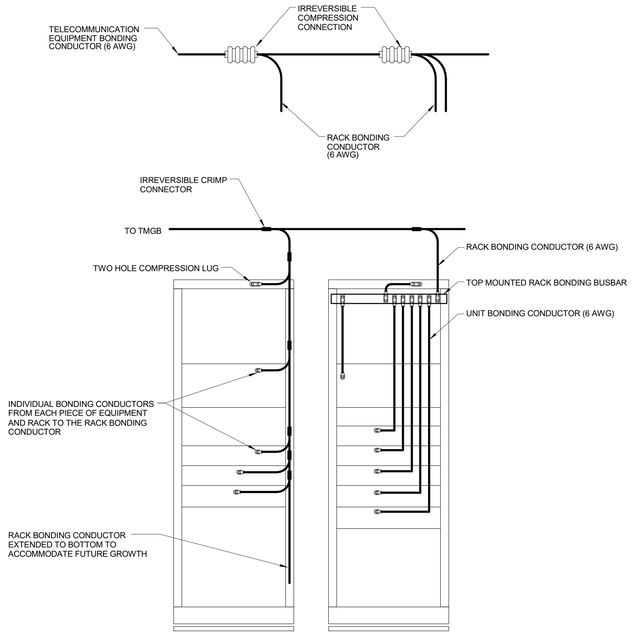
NO SCALE

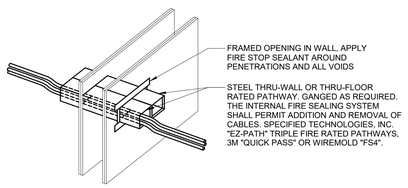
NOTES:

1. THIS GENERAL DETAIL APPLIES TO ALL ITEMS PENETRATING FIRE RATED WALLS OR FLOORS. THE INTENT IS TO MAINTAIN THE FIRE RATING AND TO ALLOW LONGITUDINAL MOVEMENT. REFER TO SPECIFICATION FOR ADDITIONAL INFORMATION.

KEYNOTES: (#)

1. SCHEDULE 5 PIPE SLEEVE EMBEDDED IN WALL OR FLOOR, OR SMOOTH CORE DRILL. EACH CONTRACTOR FURNISHES SLEEVE TO G.C., COORDINATES SLEEVE LOCATIONS AND DEBURS SLEEVE. G.C. BUILDS SLEEVE INTO WALL OR FLOOR ALLOWING NO GAP AROUND SLEEVE. IF SLEEVE IS NOT PROVIDED WHEN WALL OR FLOOR IS BUILT, CONTRACTOR SHALL INSTALL SLEEVE. SLEEVE SIZE SHALL ALLOW ANNULAR SPACE REQUIRED BY THE SELECTED FIRE STOP SYSTEM.
2. INSTALL BACKING MATERIAL, SUCH AS MINERAL WOOL SAFING, AS REQUIRED FOR FIRE STOP SYSTEM. INSTALL IN ACCORDANCE WITH FIRE STOP SYSTEM APPLICATION LISTING. SECURE TO WALL OR FLOOR TO ALLOW LONGITUDINAL MOVEMENT OF PENETRATING ITEM WITHOUT MOVEMENT OF FIRE BARRIER.
3. WATER-TIGHT WELDED 1"x1" 20 GAUGE MINIMUM GALVANIZED SHEET METAL ANGLE FRAME, BY CONTRACTOR IN EQUIPMENT ROOMS FOR WATER STOP. PLACE A BEAD OF WATERPROOF SEALANT BETWEEN FLOOR AND BOTTOM OF ANGLE FRAME. SECURE TO FLOOR WITH MASONRY ANCHORS IN CORNERS AND ON 12" MAXIMUM CENTERS. MULTIPLE PENETRATING ITEMS MAY BE ENCLOSED IN ONE FRAME.



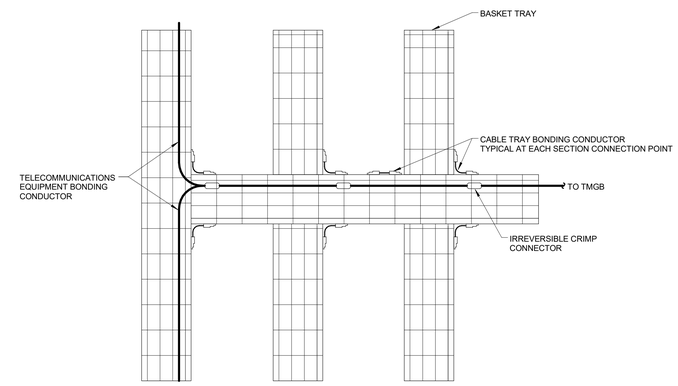


3 FIRERATED CABLING SLEEVE

NO SCALE

NOTES:

1. REFER TO SPECIFICATION SECTION 26 05 03 THROUGH PENETRATION FIRESTOPPING FOR ADDITIONAL INFORMATION.



4 PATHWAY, RACK, BONDING CONDUCTOR JOIN REQUIREMENT

NO SCALE

NOTES:

1. REFER TO 1/TN401 BONDING BUS BAR DETAIL FOR ADDITIONAL INFORMATION.
2. REFER TO 2/TN401 TYPICAL TELECOM ROOM BONDING FLOW DIAGRAM FOR ADDITIONAL INFORMATION.
3. REFER TO TN600 FOR TECHNOLOGY EQUIPMENT SCHEDULE.

Revisions:	Date:
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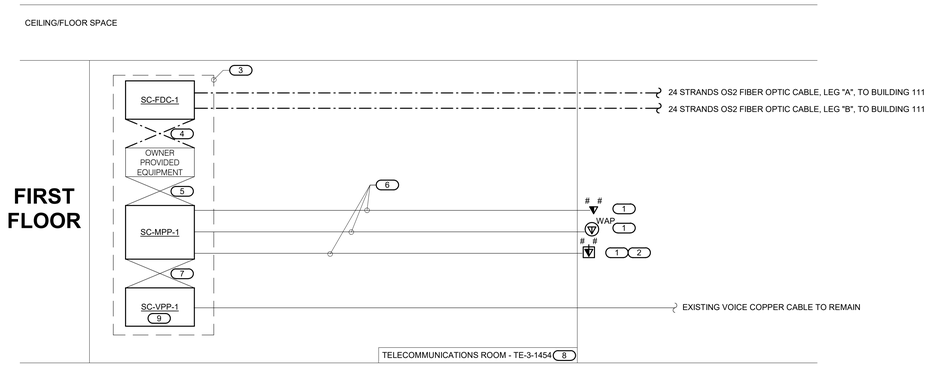
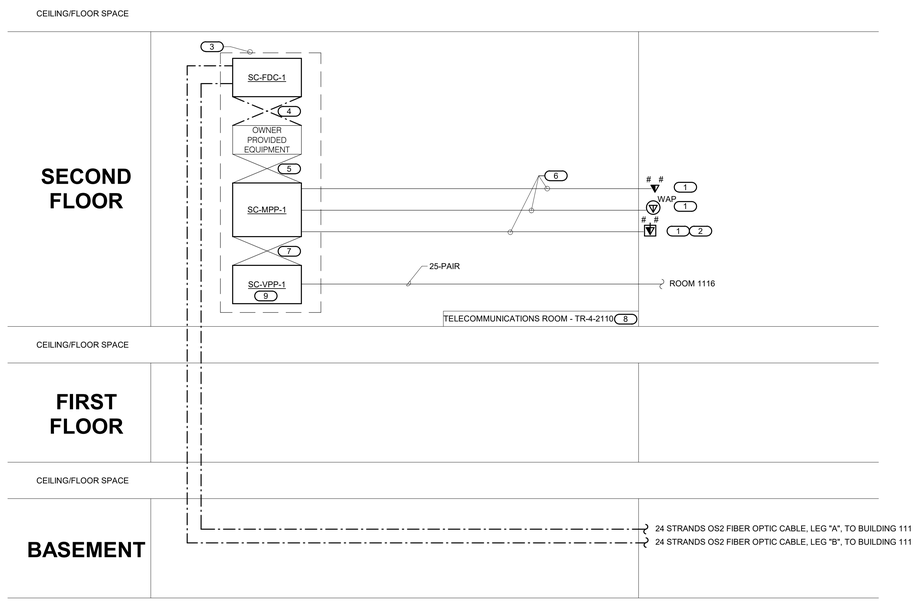


1 BLDG. 3 FIBER OPTIC AND COPPER RISER DIAGRAM

NO SCALE

NOTES:
1. THIS RISER IS DIAGRAMMATIC AND MAY NOT SHOW ACTUAL ROUTING OR QUANTITIES OF MATERIALS SHOWN. THIS RISER IS SHOWN FOR CLARIFICATION OF CONNECTION(S), LOCATIONS AND CABLE TYPE. ALL INFORMATION OUTLETS ARE TYPICAL OF THE OUTLETS IN THE AREA SHOWN. REFER TO FLOOR PLANS FOR MORE SPECIFIC ROUTING INFORMATION. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
2. REFER TO FLOOR PLANS FOR QUANTITY OF CABLES AND JACKS TO BE INSTALLED AT EACH INFORMATION OUTLET.
3. THIS BUILDING DOES NOT SERVE PATIENTS DIRECTLY AND DOES NOT REQUIRE DIVERSE BACKBONE CABLING.
4. ALL NETWORK SWITCHES ARE OWNER PROVIDED. COORDINATE WITH OWNER FOR PROVISIONING AND SEQUENCING.

KEYNOTES:
1. #D/#V INDICATES VOICE/DATA FACEPLATE CONFIGURATION. REFER TO THE INFORMATION OUTLET SCHEDULE ON TN600 FOR ADDITIONAL INFORMATION. REFER TO SPECIFICATIONS SECTION 27 15 00 FOR ADDITIONAL INFORMATION.
2. INFORMATION OUTLET INSTALLED IN E.C. PROVIDED AND INSTALLED FLOOR BOX.
3. RACK OR CABINET AS DEFINED ON THE TELECOM ROOM LAYOUT. REFER TO THE TELECOM ROOM REFERENCES MATRIX ON THE COVERPAGE FOR LOCATION.
4. CONTRACTOR PROVIDED FIBER OPTIC PATCH CORDS. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.
5. RJ-45 TO RJ45 CATEGORY 6A UTP PATCH CORDS, REFER TO SPECIFICATIONS.
6. 4-PAIR, CATEGORY 6A, UNSHIELDED TWISTED PAIR CABLE, REFER TO SPECIFICATIONS.
7. CONTRACTOR PROVIDED COPPER PATCH CORDS. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.
8. REFER TO COVERPAGE AND FLOOR PLANS FOR TELECOMMUNICATIONS ROOM LOCATIONS.
9. TERMINATE ONE PAIR PER PORT.

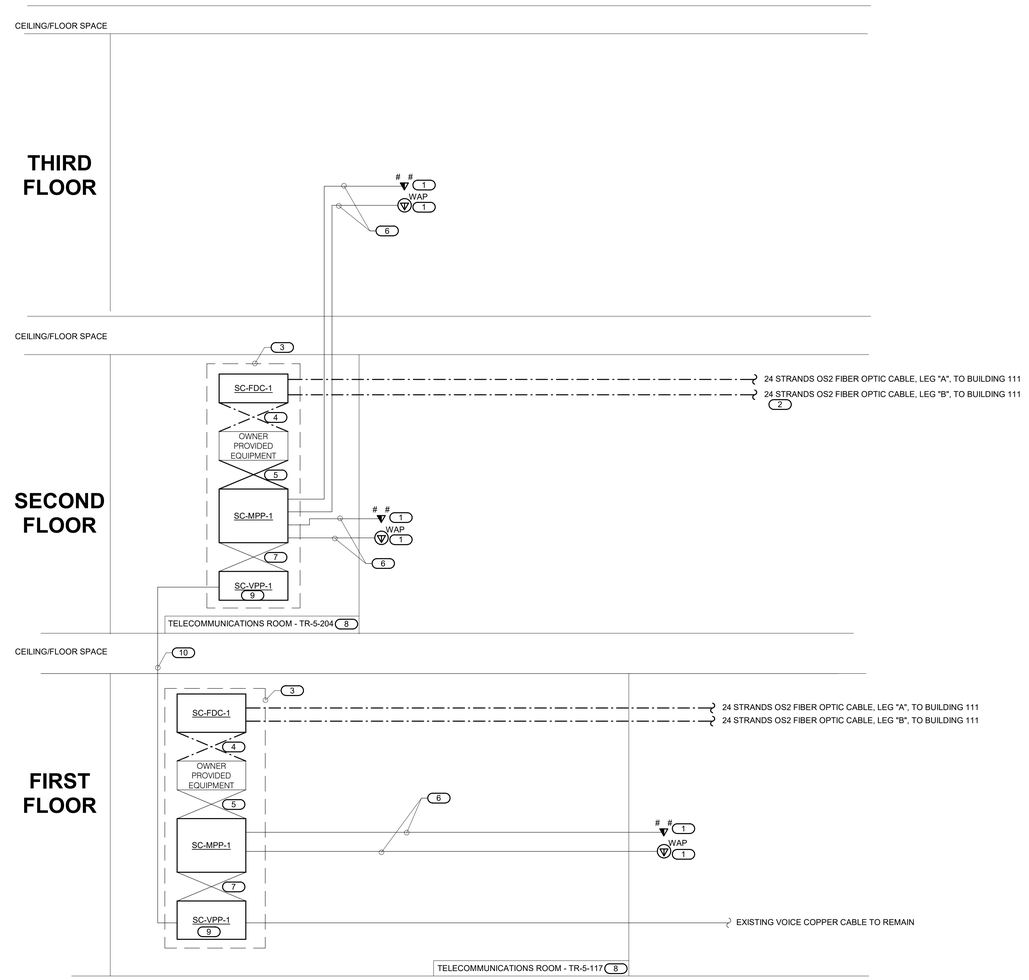


2 BLDG. 4 FIBER OPTIC AND COPPER RISER DIAGRAM

NO SCALE

NOTES:
1. THIS RISER IS DIAGRAMMATIC AND MAY NOT SHOW ACTUAL ROUTING OR QUANTITIES OF MATERIALS SHOWN. THIS RISER IS SHOWN FOR CLARIFICATION OF CONNECTION(S), LOCATIONS AND CABLE TYPE. ALL INFORMATION OUTLETS ARE TYPICAL OF THE OUTLETS IN THE AREA SHOWN. REFER TO FLOOR PLANS FOR MORE SPECIFIC ROUTING INFORMATION. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
2. REFER TO FLOOR PLANS FOR QUANTITY OF CABLES AND JACKS TO BE INSTALLED AT EACH INFORMATION OUTLET.
3. THIS BUILDING DOES NOT SERVE PATIENTS DIRECTLY AND DOES NOT REQUIRE DIVERSE BACKBONE CABLING.
4. ALL NETWORK SWITCHES ARE OWNER PROVIDED. COORDINATE WITH OWNER FOR PROVISIONING AND SEQUENCING.

KEYNOTES:
1. #D/#V INDICATES VOICE/DATA FACEPLATE CONFIGURATION. REFER TO THE INFORMATION OUTLET SCHEDULE ON TN600 FOR ADDITIONAL INFORMATION. REFER TO SPECIFICATIONS SECTION 27 15 00 FOR ADDITIONAL INFORMATION.
2. INFORMATION OUTLET INSTALLED IN E.C. PROVIDED AND INSTALLED FLOOR BOX.
3. RACK OR CABINET AS DEFINED ON THE TELECOM ROOM LAYOUT. REFER TO THE TELECOM ROOM REFERENCES MATRIX ON THE COVERPAGE FOR LOCATION.
4. CONTRACTOR PROVIDED FIBER OPTIC PATCH CORDS. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.
5. RJ-45 TO RJ45 CATEGORY 6A UTP PATCH CORDS, REFER TO SPECIFICATIONS.
6. 4-PAIR, CATEGORY 6A, UNSHIELDED TWISTED PAIR CABLE, REFER TO SPECIFICATIONS.
7. CONTRACTOR PROVIDED COPPER PATCH CORDS. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.
8. REFER TO COVERPAGE AND FLOOR PLANS FOR TELECOMMUNICATIONS ROOM LOCATIONS.
9. TERMINATE ONE PAIR PER PORT.



3 BLDG. 5 FIBER OPTIC AND COPPER RISER DIAGRAM

NO SCALE

NOTES:
1. THIS RISER IS DIAGRAMMATIC AND MAY NOT SHOW ACTUAL ROUTING OR QUANTITIES OF MATERIALS SHOWN. THIS RISER IS SHOWN FOR CLARIFICATION OF CONNECTION(S), LOCATIONS AND CABLE TYPE. ALL INFORMATION OUTLETS ARE TYPICAL OF THE OUTLETS IN THE AREA SHOWN. REFER TO FLOOR PLANS FOR MORE SPECIFIC ROUTING INFORMATION. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
2. REFER TO FLOOR PLANS FOR QUANTITY OF CABLES AND JACKS TO BE INSTALLED AT EACH INFORMATION OUTLET.
3. THIS BUILDING DOES NOT SERVE PATIENTS DIRECTLY AND DOES NOT REQUIRE DIVERSE BACKBONE CABLING.
4. ALL NETWORK SWITCHES ARE OWNER PROVIDED. COORDINATE WITH OWNER FOR PROVISIONING AND SEQUENCING.

KEYNOTES: (#)

1. #D/#V INDICATES VOICE/DATA FACEPLATE CONFIGURATION. REFER TO THE INFORMATION OUTLET SCHEDULE ON TN600 FOR ADDITIONAL INFORMATION. REFER TO SPECIFICATIONS SECTION 27 15 00 FOR ADDITIONAL INFORMATION.
2. FIBER TO UPPER LEVEL TRS SHALL ENTER THE BUILDING ON THE LOWEST LEVEL. REFER TO TECHNOLOGY SITE PLAN SHEET T1003 AND INDIVIDUAL BUILDING FLOOR PLANS FOR BUILDING ENTRY LOCATIONS AND INTERIOR PATHWAYS.
3. RACK OR CABINET AS DEFINED ON THE TELECOM ROOM LAYOUT. REFER TO THE TELECOM ROOM REFERENCES MATRIX ON THE COVERPAGE FOR LOCATION.
4. CONTRACTOR PROVIDED FIBER OPTIC PATCH CORDS. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.
5. RJ-45 TO RJ45 CATEGORY 6A UTP PATCH CORDS, REFER TO SPECIFICATIONS.
6. 4-PAIR, CATEGORY 6A, UNSHIELDED TWISTED PAIR CABLE, REFER TO SPECIFICATIONS.
7. CONTRACTOR PROVIDED COPPER PATCH CORDS. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.
8. REFER TO COVERPAGE AND FLOOR PLANS FOR TELECOMMUNICATIONS ROOM LOCATIONS.
9. TERMINATE ONE PAIR PER PORT.
10. CAT 3 25-PAIR CABLE.

Revisions:	Date:
35% SCHEMATIC DESIGN SUBMISSION	5.17.21
65% DESIGN DEVELOPMENT SUBMISSION	6.15.21
65% DESIGN DEVELOPMENT RESUBMISSION	8.25.21

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Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title TECHNOLOGY DIAGRAMS	**Phase** FINAL BID DOCUMENTS	**Project Title** EHRM INFRASTRUCTURE UPGRADES - MILWAUKEE, WI	**Project Number** 695-21-700
			Building Number
Approved:	**Sprinklered** FULLY SPRINKLERED	**Location** 5000 W. NATIONAL AVENUE MILWAUKEE, WI	**Drawing Number** TN500
		Issue Date SEPTEMBER 05, 2025 / **Checked** PHINIE / **Drawn** MAIBEJ	

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Graphic Scale: 1/8" = 1'-0" 0' 4' 8' 16'
Graphic Scale: 3/32" = 1'-0" 0' 8" 1' 2'
Graphic Scale: 1/4" = 1'-0" 0' 1' 2' 4'
Graphic Scale: 3/8" = 1'-0" 0' 1' 2' 4'
Graphic Scale: 1/2" = 1'-0" 0' 1' 2' 4'
Graphic Scale: 3/4" = 1'-0" 0' 6" 1' 2'
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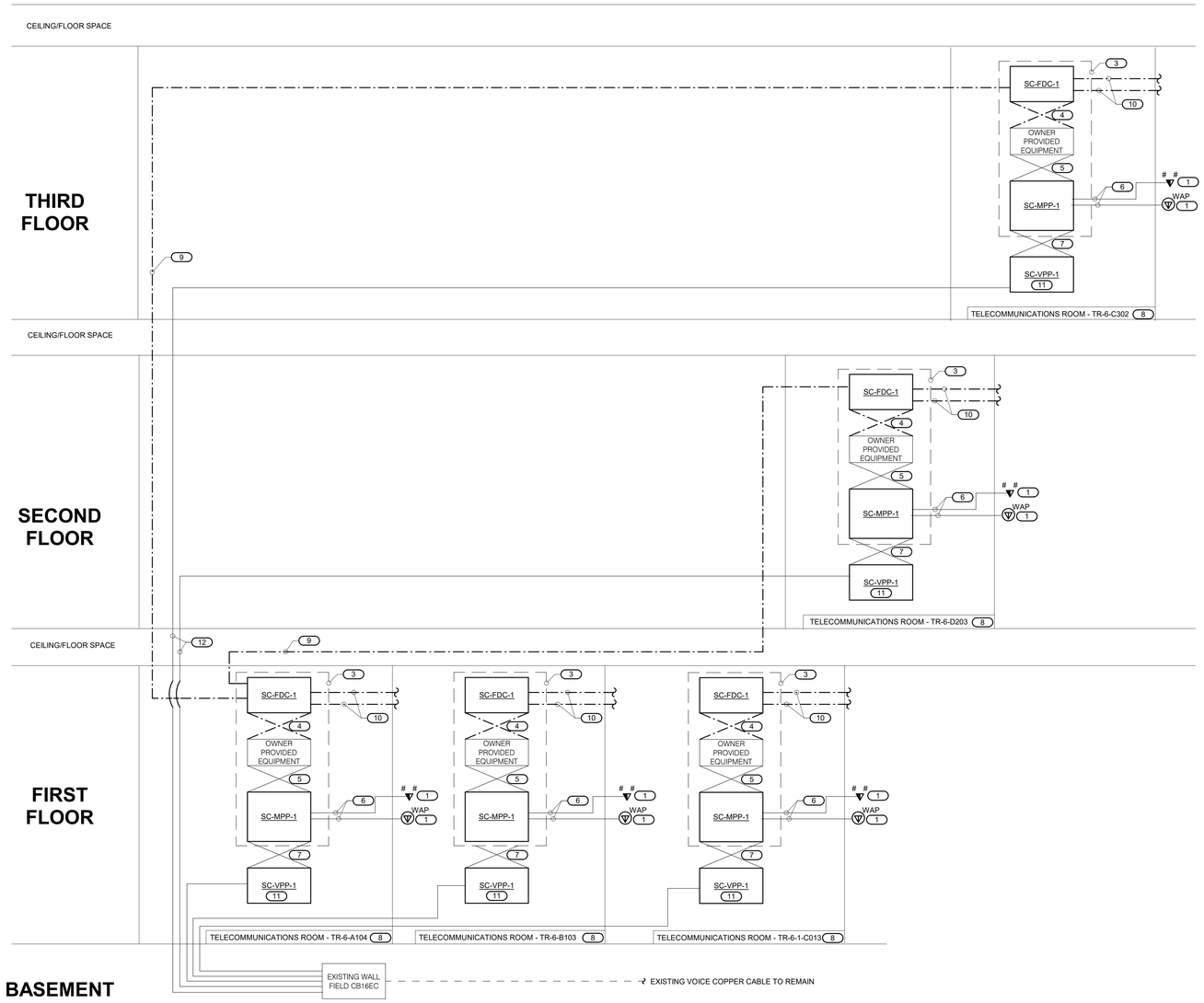


1 BLDG. 6 FIBER OPTIC AND COPPER RISER DIAGRAM

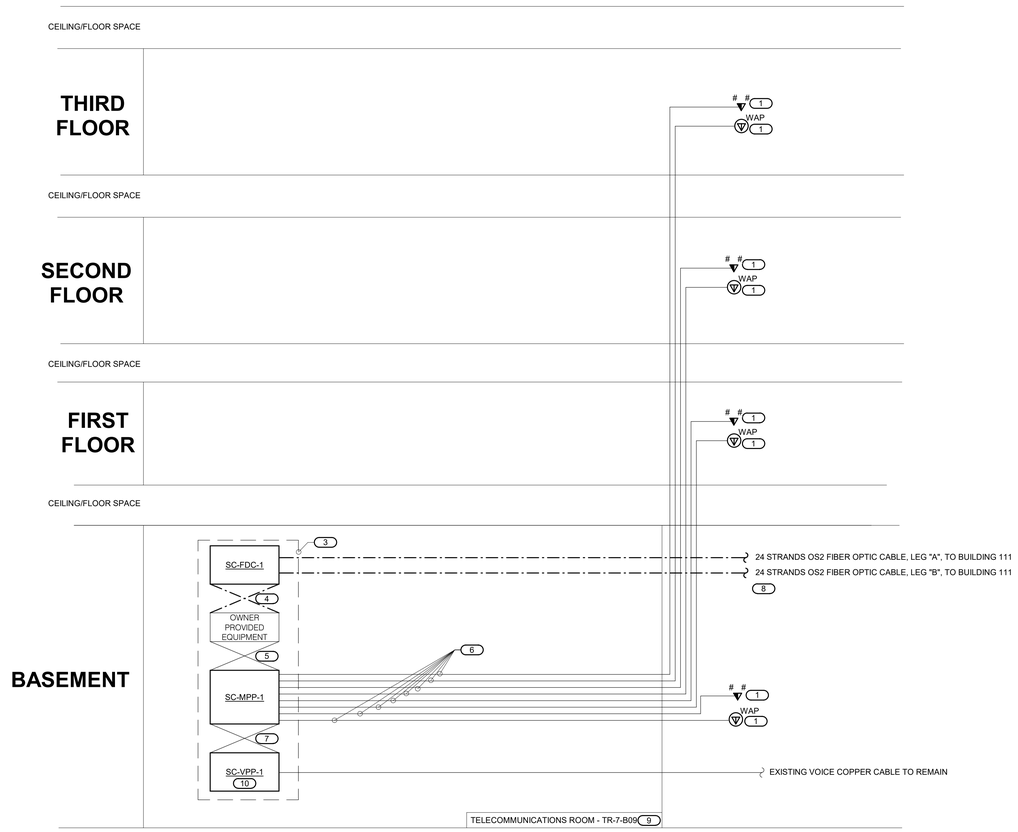
NO SCALE

NOTES:

1. THIS RISER IS DIAGRAMMATIC AND MAY NOT SHOW ACTUAL ROUTING OR QUANTITIES OF MATERIALS SHOWN. THIS RISER IS SHOWN FOR CLARIFICATION OF CONNECTION(S), LOCATIONS AND CABLE TYPE. ALL INFORMATION OUTLETS ARE TYPICAL OF THE OUTLETS IN THE AREA SHOWN. REFER TO FLOOR PLANS FOR MORE SPECIFIC ROUTING INFORMATION. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
2. REFER TO FLOOR PLANS FOR QUANTITY OF CABLES AND JACKS TO BE INSTALLED AT EACH INFORMATION OUTLET.
3. THIS BUILDING DOES NOT SERVE PATIENTS DIRECTLY AND DOES NOT REQUIRE DIVERSE BACKBONE CABLING.
4. ALL NETWORK SWITCHES ARE OWNER PROVIDED. COORDINATE WITH OWNER FOR PROVISIONING AND SEQUENCING.

KEYNOTES: (#)

1. #D/#V INDICATES VOICE/DATA FACEPLATE CONFIGURATION. REFER TO THE INFORMATION OUTLET SCHEDULE ON TN600 FOR ADDITIONAL INFORMATION. REFER TO SPECIFICATIONS SECTION 27 15 00 FOR ADDITIONAL INFORMATION.
2. INFORMATION OUTLET INSTALLED IN E.C. PROVIDED AND INSTALLED FLOOR BOX.
3. RACK OR CABINET AS DEFINED ON THE TELECOM ROOM LAYOUT. REFER TO THE TELECOM ROOM REFERENCES MATRIX ON THE COVERPAGE FOR LOCATION.
4. CONTRACTOR PROVIDED FIBER OPTIC PATCH CORDS. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.
5. OWNER FURNISHED RJ-45 TO RJ45 CATEGORY 6A UTP PATCH CORDS, REFER TO SPECIFICATIONS.
6. 4-PAIR, CATEGORY 6A, UNSHIELDED TWISTED PAIR CABLE, REFER TO SPECIFICATIONS.
7. CONTRACTOR PROVIDED COPPER PATCH CORDS. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.
8. REFER TO COVERPAGE AND FLOOR PLANS FOR TELECOMMUNICATIONS ROOM LOCATIONS.
9. FIBER TO UPPER LEVEL TRS SHALL ENTER THE BUILDING IN THE BASEMENT, ROOMS CB16ECA ND 6-B-C-006.REFER TO TECHNOLOGY SITE PLAN SHEET T1003 AND INDIVIDUAL BUILDING FLOOR PLANS FOR BUILDING ENTRY LOCATIONS AND INTERIOR PATHWAYS.
10. ONE (1) CABLE 24 STRANDS OM4 FIBER OPTIC CABLE AND ONE (1) CABLE 12 STRANDS OS 1 LEG "A" TO ICC ROOM, BUILDING 111.
11. TERMINATE ONE PAIR PER PORT.
12. CAT 3 50-PAIR.



2 BLDG. 7 FIBER OPTIC AND COPPER RISER DIAGRAM

NO SCALE

NOTES:

1. THIS RISER IS DIAGRAMMATIC AND MAY NOT SHOW ACTUAL ROUTING OR QUANTITIES OF MATERIALS SHOWN. THIS RISER IS SHOWN FOR CLARIFICATION OF CONNECTION(S), LOCATIONS AND CABLE TYPE. ALL INFORMATION OUTLETS ARE TYPICAL OF THE OUTLETS IN THE AREA SHOWN. REFER TO FLOOR PLANS FOR MORE SPECIFIC ROUTING INFORMATION. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
2. REFER TO FLOOR PLANS FOR QUANTITY OF CABLES AND JACKS TO BE INSTALLED AT EACH INFORMATION OUTLET.
3. THIS BUILDING DOES NOT SERVE PATIENTS DIRECTLY AND DOES NOT REQUIRE DIVERSE BACKBONE CABLING.
4. ALL NETWORK SWITCHES ARE OWNER PROVIDED. COORDINATE WITH OWNER FOR PROVISIONING AND SEQUENCING.

KEYNOTES: (#)

1. #D/#V INDICATES VOICE/DATA FACEPLATE CONFIGURATION. REFER TO THE INFORMATION OUTLET SCHEDULE ON TN600 FOR ADDITIONAL INFORMATION. REFER TO SPECIFICATIONS SECTION 27 15 00 FOR ADDITIONAL INFORMATION.
2. INFORMATION OUTLET INSTALLED IN E.C. PROVIDED AND INSTALLED FLOOR BOX.
3. RACK OR CABINET AS DEFINED ON THE TELECOM ROOM LAYOUT. REFER TO THE TELECOM ROOM REFERENCES MATRIX ON THE COVERPAGE FOR LOCATION.
4. CONTRACTOR PROVIDED FIBER OPTIC PATCH CORDS. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.
5. RJ-45 TO RJ45 CATEGORY 6A UTP PATCH CORDS, REFER TO SPECIFICATIONS.
6. 4-PAIR, CATEGORY 6A, UNSHIELDED TWISTED PAIR CABLE, REFER TO SPECIFICATIONS.
7. CONTRACTOR PROVIDED COPPER PATCH CORDS. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.
8. 24 STRANDS OS2 FIBER.
9. REFER TO COVERPAGE AND FLOOR PLANS FOR TELECOMMUNICATIONS ROOM LOCATIONS.
10. TERMINATE ONE PAIR PER PORT.

35% SCHEMATIC DESIGN SUBMISSION	5.17.21
65% DESIGN DEVELOPMENT SUBMISSION	6.15.21
65% DESIGN DEVELOPMENT RESUBMISSION	8.25.21
Revisions:	Date:

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Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: TECHNOLOGY DIAGRAMS	Phase: FINAL BID DOCUMENTS	Project Title: EHRM INFRASTRUCTURE UPGRADES - MILWAUKEE, WI	Project Number: 695-21-700
			Building Number:
Approved:	Sprinklered: FULLY SPRINKLERED	Location: 5000 W. NATIONAL AVENUE MILWAUKEE, WI	Drawing Number: TN501
		Issue Date: SEPTEMBER 05, 2025 / Checked: PHINIE / Drawn: MAIBEJ	

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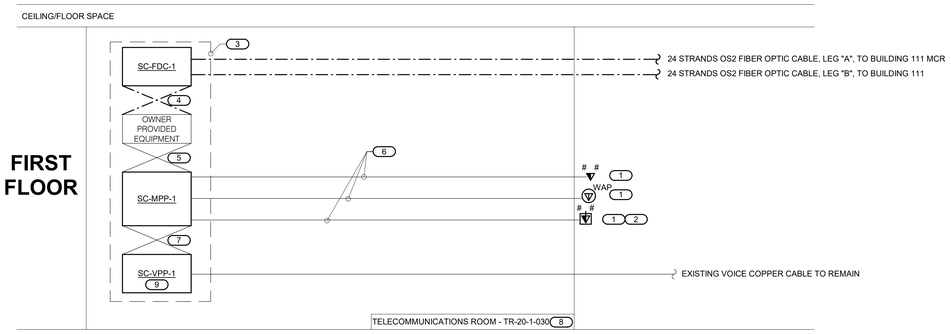


1 BLDG. 20 FIBER OPTIC AND COPPER RISER DIAGRAM

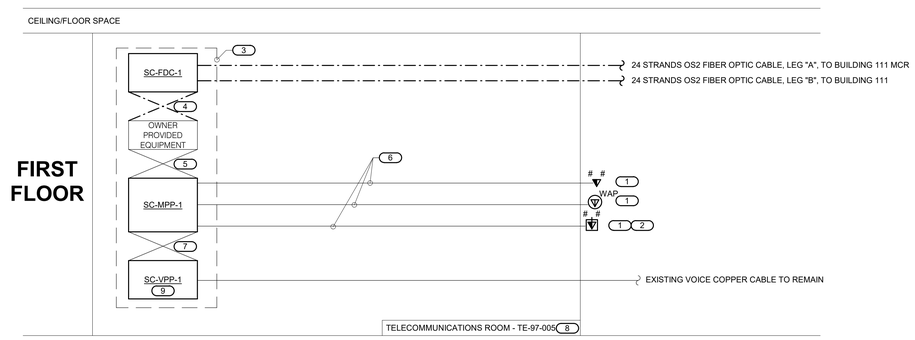
NO SCALE

NOTES:

1. THIS RISER IS DIAGRAMMATIC AND MAY NOT SHOW ACTUAL ROUTING OR QUANTITIES OF MATERIALS SHOWN. THIS RISER IS SHOWN FOR CLARIFICATION OF CONNECTION(S), LOCATIONS AND CABLE TYPE. ALL INFORMATION OUTLETS ARE TYPICAL OF THE OUTLETS IN THE AREA SHOWN. REFER TO FLOOR PLANS FOR MORE SPECIFIC ROUTING INFORMATION. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
2. REFER TO FLOOR PLANS FOR QUANTITY OF CABLES AND JACKS TO BE INSTALLED AT EACH INFORMATION OUTLET.
3. THIS BUILDING DOES NOT SERVE PATIENTS DIRECTLY AND DOES NOT REQUIRE DIVERSE BACKBONE CABLING.
4. ALL NETWORK SWITCHES ARE OWNER PROVIDED. COORDINATE WITH OWNER FOR PROVISIONING AND SEQUENCING.

KEYNOTES: (#)

1. #D/#V INDICATES VOICE/DATA FACEPLATE CONFIGURATION. REFER TO THE INFORMATION OUTLET SCHEDULE ON TN600 FOR ADDITIONAL INFORMATION. REFER TO SPECIFICATIONS SECTION 27 15 00 FOR ADDITIONAL INFORMATION.
2. INFORMATION OUTLET INSTALLED IN E.C. PROVIDED AND INSTALLED FLOOR BOX.
3. RACK OR CABINET AS DEFINED ON THE TELECOM ROOM LAYOUT. REFER TO THE TELECOM ROOM REFERENCES MATRIX ON THE COVERPAGE FOR LOCATION.
4. CONTRACTOR PROVIDED FIBER OPTIC PATCH CORDS. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.
5. OWNER FURNISHED RJ-45 TO RJ45 CATEGORY 6A UTP PATCH CORDS, REFER TO SPECIFICATIONS.
6. 4-PAIR, CATEGORY 6A, UNSHIELDED TWISTED PAIR CABLE, REFER TO SPECIFICATIONS.
7. CONTRACTOR PROVIDED COPPER PATCH CORDS. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.
8. REFER TO COVERPAGE AND FLOOR PLANS FOR TELECOMMUNICATIONS ROOM LOCATIONS.
9. TERMINATE ONE PAIR PER PORT.



3 BLDG. 97 FIBER OPTIC AND COPPER RISER DIAGRAM

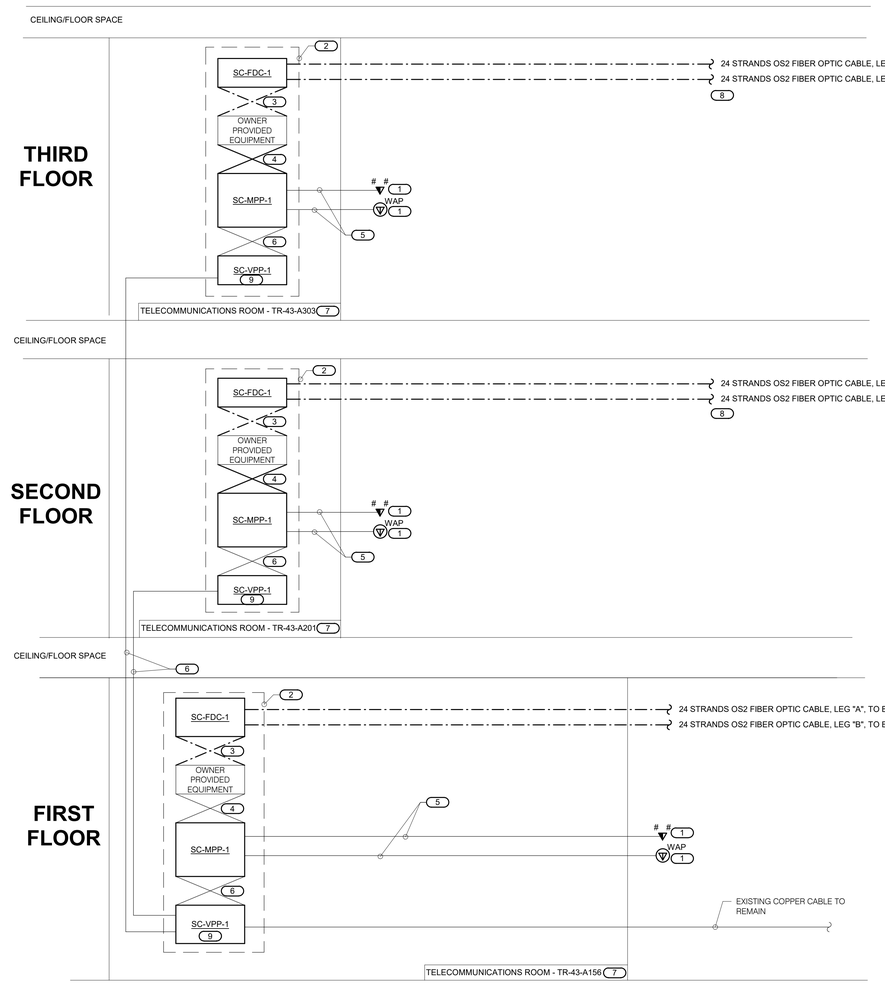
NO SCALE

NOTES:

1. THIS RISER IS DIAGRAMMATIC AND MAY NOT SHOW ACTUAL ROUTING OR QUANTITIES OF MATERIALS SHOWN. THIS RISER IS SHOWN FOR CLARIFICATION OF CONNECTION(S), LOCATIONS AND CABLE TYPE. ALL INFORMATION OUTLETS ARE TYPICAL OF THE OUTLETS IN THE AREA SHOWN. REFER TO FLOOR PLANS FOR MORE SPECIFIC ROUTING INFORMATION. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
2. REFER TO FLOOR PLANS FOR QUANTITY OF CABLES AND JACKS TO BE INSTALLED AT EACH INFORMATION OUTLET.
3. THIS BUILDING DOES NOT SERVE PATIENTS DIRECTLY AND DOES NOT REQUIRE DIVERSE BACKBONE CABLING.
4. ALL NETWORK SWITCHES ARE OWNER PROVIDED. COORDINATE WITH OWNER FOR PROVISIONING AND SEQUENCING.

KEYNOTES: (#)

1. #D/#V INDICATES VOICE/DATA FACEPLATE CONFIGURATION. REFER TO THE INFORMATION OUTLET SCHEDULE ON TN600 FOR ADDITIONAL INFORMATION. REFER TO SPECIFICATIONS SECTION 27 15 00 FOR ADDITIONAL INFORMATION.
2. INFORMATION OUTLET INSTALLED IN E.C. PROVIDED AND INSTALLED FLOOR BOX.
3. RACK OR CABINET AS DEFINED ON THE TELECOM ROOM LAYOUT. REFER TO THE TELECOM ROOM REFERENCES MATRIX ON THE COVERPAGE FOR LOCATION.
4. CONTRACTOR PROVIDED FIBER OPTIC PATCH CORDS. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.
5. OWNER FURNISHED RJ-45 TO RJ45 CATEGORY 6A UTP PATCH CORDS, REFER TO SPECIFICATIONS.
6. 4-PAIR, CATEGORY 6A, UNSHIELDED TWISTED PAIR CABLE, REFER TO SPECIFICATIONS.
7. CONTRACTOR PROVIDED COPPER PATCH CORDS. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.
8. REFER TO COVERPAGE AND FLOOR PLANS FOR TELECOMMUNICATIONS ROOM LOCATIONS.
9. TERMINATE ONE PAIR PER PORT.



2 BLDG. 43 FIBER OPTIC AND COPPER RISER DIAGRAM

NO SCALE

NOTES:

1. THIS RISER IS DIAGRAMMATIC AND MAY NOT SHOW ACTUAL ROUTING OR QUANTITIES OF MATERIALS SHOWN. THIS RISER IS SHOWN FOR CLARIFICATION OF CONNECTION(S), LOCATIONS AND CABLE TYPE. ALL INFORMATION OUTLETS ARE TYPICAL OF THE OUTLETS IN THE AREA SHOWN. REFER TO FLOOR PLANS FOR MORE SPECIFIC ROUTING INFORMATION. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
2. REFER TO FLOOR PLANS FOR QUANTITY OF CABLES AND JACKS TO BE INSTALLED AT EACH INFORMATION OUTLET.
3. ALL NETWORK SWITCHES ARE OWNER PROVIDED. COORDINATE WITH OWNER FOR PROVISIONING AND SEQUENCING.

KEYNOTES: (#)

1. #D/#V INDICATES VOICE/DATA FACEPLATE CONFIGURATION. REFER TO THE INFORMATION OUTLET SCHEDULE ON TN600 FOR ADDITIONAL INFORMATION. REFER TO SPECIFICATIONS SECTION 27 15 00 FOR ADDITIONAL INFORMATION.
2. RACK OR CABINET AS DEFINED ON THE TELECOM ROOM LAYOUT. REFER TO THE TELECOM ROOM REFERENCES MATRIX ON THE COVERPAGE FOR LOCATION.
3. CONTRACTOR PROVIDED FIBER OPTIC PATCH CORDS. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.
4. OWNER FURNISHED RJ-45 TO RJ45 CATEGORY 6A UTP PATCH CORDS, REFER TO SPECIFICATIONS.
5. 4-PAIR, CATEGORY 6A, UNSHIELDED TWISTED PAIR CABLE, REFER TO SPECIFICATIONS.
6. CONTRACTOR PROVIDED COPPER PATCH CORDS. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.
7. REFER TO COVERPAGE AND FLOOR PLANS FOR TELECOMMUNICATIONS ROOM LOCATIONS.
8. FIBER TO UPPER LEVEL TRS SHALL ENTER THE BUILDING ON THE LOWEST LEVEL. REFER TO TECHNOLOGY SITE PLAN SHEET T1003 AND INDIVIDUAL BUILDING FLOOR PLANS FOR BUILDING ENTRY LOCATIONS AND INTERIOR PATHWAYS.
9. TERMINATE ONE PAIR PER PORT.

35% SCHEMATIC DESIGN SUBMISSION	5.17.21
65% DESIGN DEVELOPMENT SUBMISSION	6.15.21
65% DESIGN DEVELOPMENT RESUBMISSION	8.25.21
Revisions:	Date:

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Office of Construction and Facilities Management
VA U.S. Department of Veterans Affairs

Drawing Title: TECHNOLOGY DIAGRAMS
Approved:
Phase: FINAL BID DOCUMENTS
Sprinklered: FULLY SPRINKLERED
Project Title: EHRM INFRASTRUCTURE UPGRADES - MILWAUKEE, WI
Location: 5000 W. NATIONAL AVENUE MILWAUKEE, WI
Issue Date: SEPTEMBER 05, 2025
Checked: PHINIE
Drawn: MAIBEJ
Project Number: 695-21-700
Building Number:
Drawing Number: TN502

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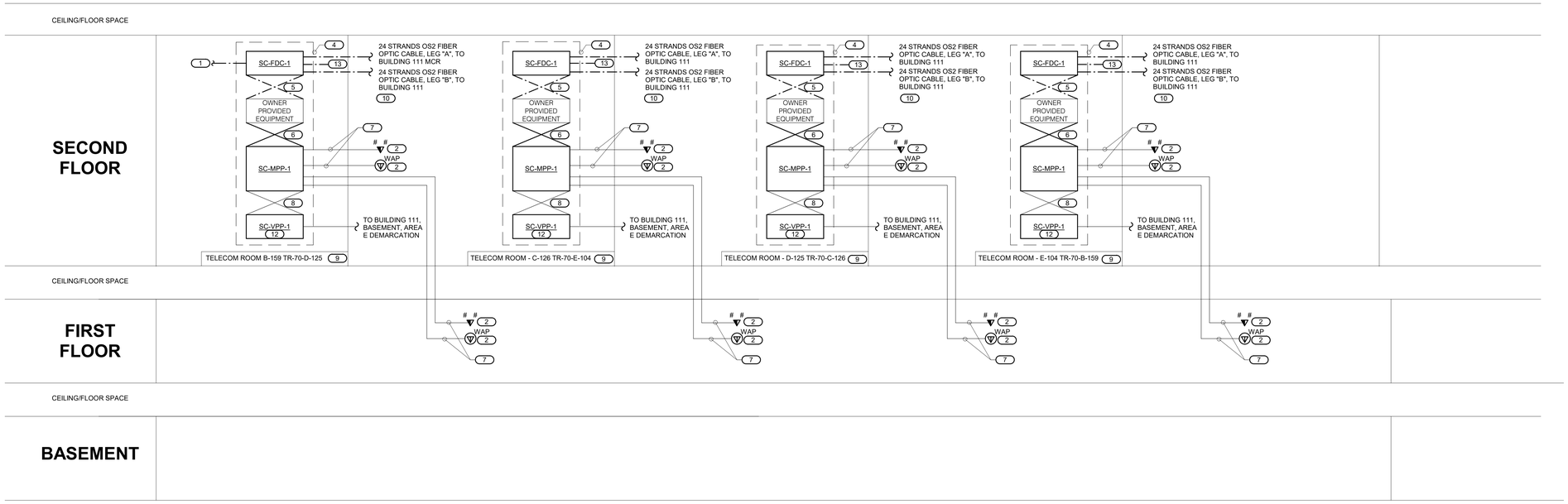


1 BLDG. 70 FIBER OPTIC AND COPPER RISER DIAGRAM

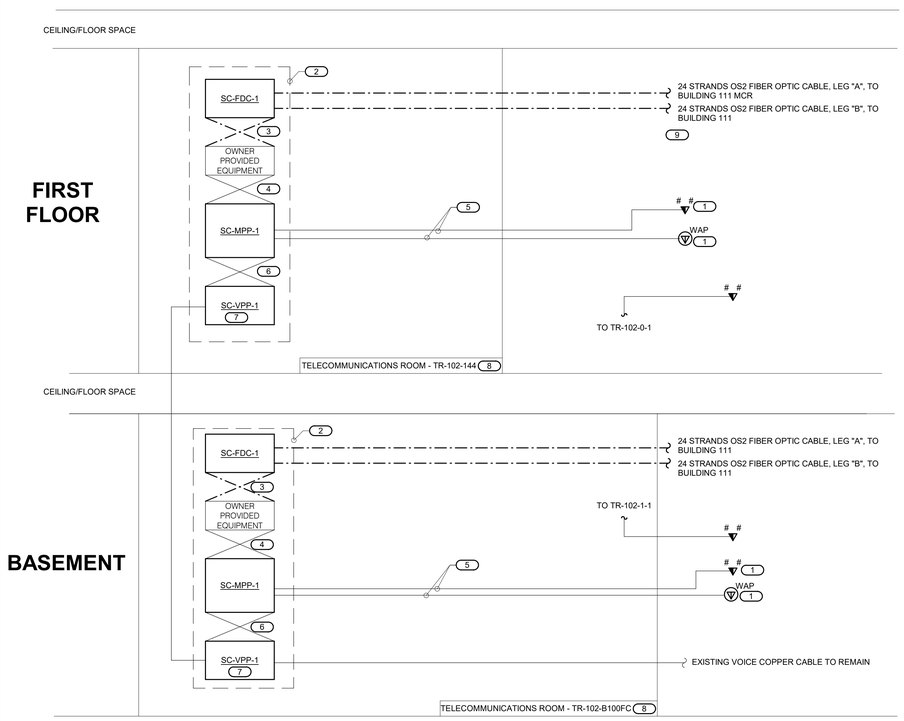
NO SCALE

NOTES:

1. THIS RISER IS DIAGRAMMATIC AND MAY NOT SHOW ACTUAL ROUTING OR QUANTITIES OF MATERIALS SHOWN. THIS RISER IS SHOWN FOR CLARIFICATION OF CONNECTION(S), LOCATIONS AND CABLE TYPE. ALL INFORMATION OUTLETS ARE TYPICAL OF THE OUTLETS IN THE AREA SHOWN. REFER TO FLOOR PLANS FOR MORE SPECIFIC ROUTING INFORMATION. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
2. REFER TO FLOOR PLANS FOR QUANTITY OF CABLES AND JACKS TO BE INSTALLED AT EACH INFORMATION OUTLET.
3. ALL NETWORK SWITCHES ARE OWNER PROVIDED. COORDINATE WITH OWNER FOR PROVISIONING AND SEQUENCING.

KEYNOTES:

1. CROSS-CONNECT 25-PAIR PER BACKBONE RISER CABLE TO THE INCOMING SERVICE PROVIDER CABLE.
2. #D/#V INDICATES VOICE/DATA FACEPLATE CONFIGURATION. REFER TO THE INFORMATION OUTLET SCHEDULE ON TN600 FOR ADDITIONAL INFORMATION. REFER TO SPECIFICATIONS SECTION 27 15 00 FOR ADDITIONAL INFORMATION.
3. INFORMATION OUTLET INSTALLED IN E.C. PROVIDED AND INSTALLED FLOOR BOX.
4. RACK OR CABINET AS DEFINED ON THE TELECOM ROOM LAYOUT. REFER TO THE TELECOM ROOM REFERENCES MATRIX ON THE COVERPAGE FOR LOCATION.
5. CONTRACTOR PROVIDED FIBER OPTIC PATCH CORDS. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.
6. OWNER FURNISHED RJ-45 TO RJ45 CATEGORY 6A UTP PATCH CORDS, REFER TO SPECIFICATIONS.
7. 4-PAIR, CATEGORY 6A, UNSHIELDED TWISTED PAIR CABLE, REFER TO SPECIFICATIONS.
8. CONTRACTOR PROVIDED COPPER PATCH CORDS. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.
9. REFER TO COVERPAGE AND FLOOR PLANS FOR TELECOMMUNICATIONS ROOM LOCATIONS.
10. FIBER TO UPPER LEVEL TRS SHALL ENTER THE BUILDING ON THE LOWEST LEVEL. REFER TO TECHNOLOGY SITE PLAN SHEET T1003 AND INDIVIDUAL BUILDING FLOOR PLANS FOR BUILDING ENTRY LOCATIONS AND INTERIOR PATHWAYS.
11. SIX (6) STRANDS OS1 FIBER OPTIC CABLE FOR USE BY MEDICAL COLLEGE OF WISCONSIN, TERMINATED IN BUILDING 111 MCR.
12. TERMINATE ONE PAIR PER PORT.



NOTES:

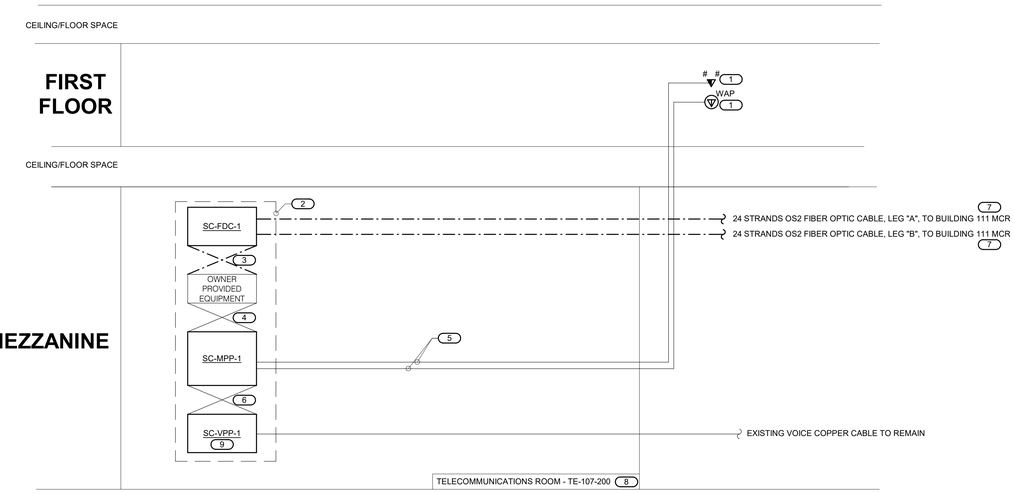
1. THIS RISER IS DIAGRAMMATIC AND MAY NOT SHOW ACTUAL ROUTING OR QUANTITIES OF MATERIALS SHOWN. THIS RISER IS SHOWN FOR CLARIFICATION OF CONNECTION(S), LOCATIONS AND CABLE TYPE. ALL INFORMATION OUTLETS ARE TYPICAL OF THE OUTLETS IN THE AREA SHOWN. REFER TO FLOOR PLANS FOR MORE SPECIFIC ROUTING INFORMATION. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
2. REFER TO FLOOR PLANS FOR QUANTITY OF CABLES AND JACKS TO BE INSTALLED AT EACH INFORMATION OUTLET.
3. ALL NETWORK SWITCHES ARE OWNER PROVIDED. COORDINATE WITH OWNER FOR PROVISIONING AND SEQUENCING.

KEYNOTES: #

1. #D/#V INDICATES VOICE/DATA FACEPLATE CONFIGURATION. REFER TO THE INFORMATION OUTLET SCHEDULE ON TN600 FOR ADDITIONAL INFORMATION. REFER TO SPECIFICATIONS SECTION 27 15 00 FOR ADDITIONAL INFORMATION.
2. RACK OR CABINET AS DEFINED ON THE TELECOM ROOM LAYOUT. REFER TO THE TELECOM ROOM REFERENCES MATRIX ON THE COVERPAGE FOR LOCATION.
3. CONTRACTOR PROVIDED FIBER OPTIC PATCH CORDS. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.
4. OWNER FURNISHED RJ-45 TO RJ45 CATEGORY 6A UTP PATCH CORDS, REFER TO SPECIFICATIONS.
5. 4-PAIR, CATEGORY 6A, SHIELDED TWISTED PAIR CABLE, REFER TO SPECIFICATIONS. ALL HORIZONTAL CABLING IN BUILDING 102 SHALL BE SHIELDED.
6. CONTRACTOR PROVIDED COPPER PATCH CORDS. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.
7. TERMINATE ONE PAIR PER PORT.
8. REFER TO COVERPAGE AND FLOOR PLANS FOR TELECOMMUNICATIONS ROOM LOCATIONS.
9. FIBER TO UPPER LEVEL TRS SHALL ENTER THE BUILDING ON THE LOWEST LEVEL. REFER TO TECHNOLOGY SITE PLAN SHEET T1003 AND INDIVIDUAL BUILDING FLOOR PLANS FOR BUILDING ENTRY LOCATIONS AND INTERIOR PATHWAYS.

2 BLDG. 102 FIBER OPTIC AND COPPER RISER DIAGRAM

NO SCALE



3 BLDG. 107 FIBER OPTIC AND COPPER RISER DIAGRAM

NO SCALE

NOTES:

1. THIS RISER IS DIAGRAMMATIC AND MAY NOT SHOW ACTUAL ROUTING OR QUANTITIES OF MATERIALS SHOWN. THIS RISER IS SHOWN FOR CLARIFICATION OF CONNECTION(S), LOCATIONS AND CABLE TYPE. ALL INFORMATION OUTLETS ARE TYPICAL OF THE OUTLETS IN THE AREA SHOWN. REFER TO FLOOR PLANS FOR MORE SPECIFIC ROUTING INFORMATION. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
2. REFER TO FLOOR PLANS FOR QUANTITY OF CABLES AND JACKS TO BE INSTALLED AT EACH INFORMATION OUTLET.
3. THIS BUILDING DOES NOT SERVE PATIENTS DIRECTLY AND DOES NOT REQUIRE DIVERSE BACKBONE CABLING.
4. ALL NETWORK SWITCHES ARE OWNER PROVIDED. COORDINATE WITH OWNER FOR PROVISIONING AND SEQUENCING.

KEYNOTES: #

1. #D/#V INDICATES VOICE/DATA FACEPLATE CONFIGURATION. REFER TO THE INFORMATION OUTLET SCHEDULE ON TN600 FOR ADDITIONAL INFORMATION. REFER TO SPECIFICATIONS SECTION 27 15 00 FOR ADDITIONAL INFORMATION.
2. RACK OR CABINET AS DEFINED ON THE TELECOM ROOM LAYOUT. REFER TO THE TELECOM ROOM REFERENCES MATRIX ON THE COVERPAGE FOR LOCATION.
3. CONTRACTOR PROVIDED FIBER OPTIC PATCH CORDS. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.
4. OWNER FURNISHED RJ-45 TO RJ45 CATEGORY 6A UTP PATCH CORDS, REFER TO SPECIFICATIONS.
5. 4-PAIR, CATEGORY 6A, UNSHIELDED TWISTED PAIR CABLE, REFER TO SPECIFICATIONS.
6. CONTRACTOR PROVIDED COPPER PATCH CORDS. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.
7. 24 STRANDS OS2 FIBER.
8. REFER TO COVERPAGE AND FLOOR PLANS FOR TELECOMMUNICATIONS ROOM LOCATIONS.
9. TERMINATE ONE PAIR PER PORT.

Revisions:	Date:
35% SCHEMATIC DESIGN SUBMISSION	5.17.21
65% DESIGN DEVELOPMENT SUBMISSION	6.15.21
65% DESIGN DEVELOPMENT RESUBMISSION	8.25.21

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Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: TECHNOLOGY DIAGRAMS	Phase: FINAL BID DOCUMENTS	Project Title: EHRM INFRASTRUCTURE UPGRADES - MILWAUKEE, WI	Project Number: 695-21-700
			Building Number:
Approved:	Sprinklered: FULLY SPRINKLERED	Location: 5000 W. NATIONAL AVENUE MILWAUKEE, WI	Drawing Number: TN503
		Issue Date: SEPTEMBER 05, 2025 / Checked: PHINIE / Drawn: MAIBEJ	

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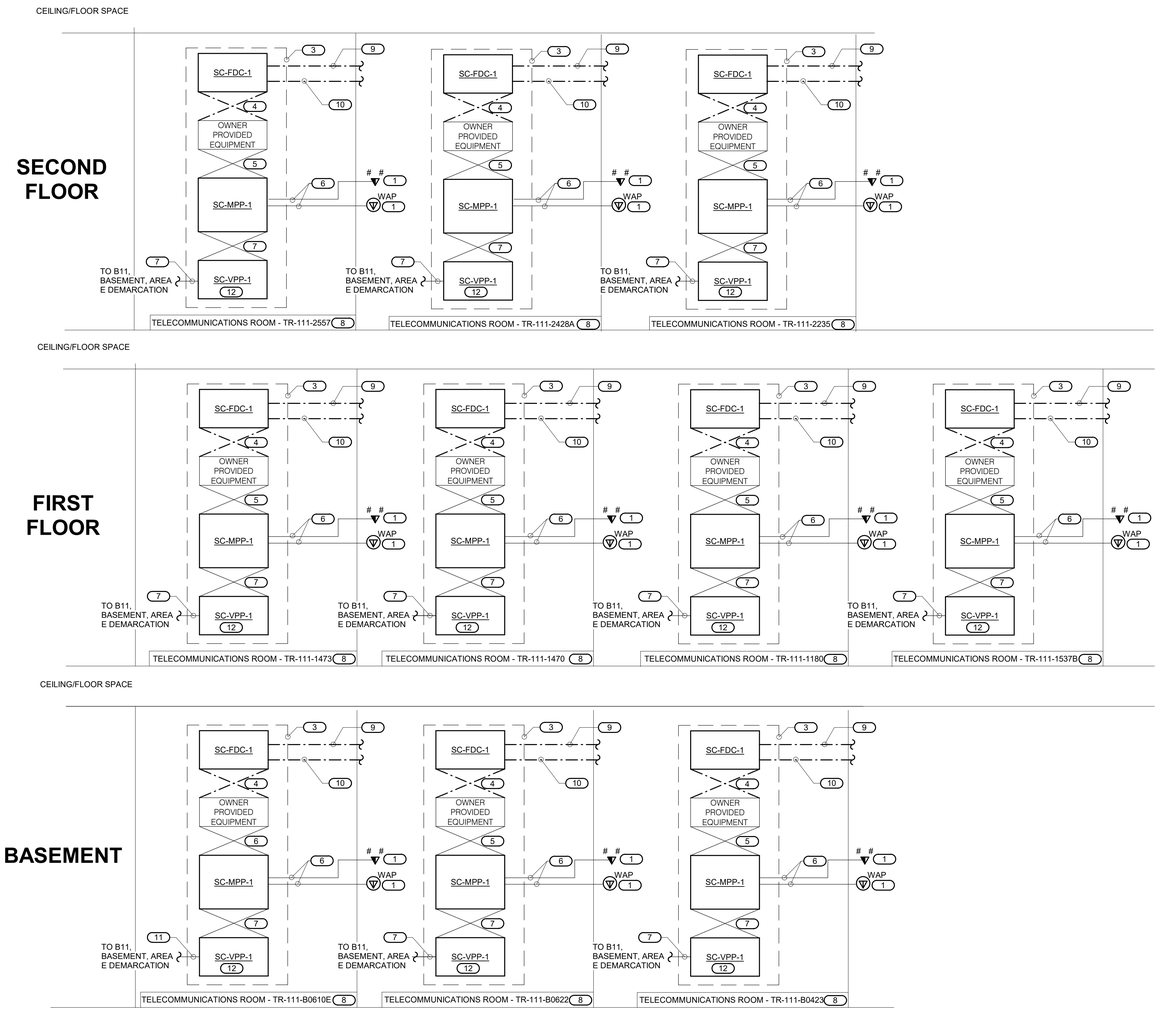

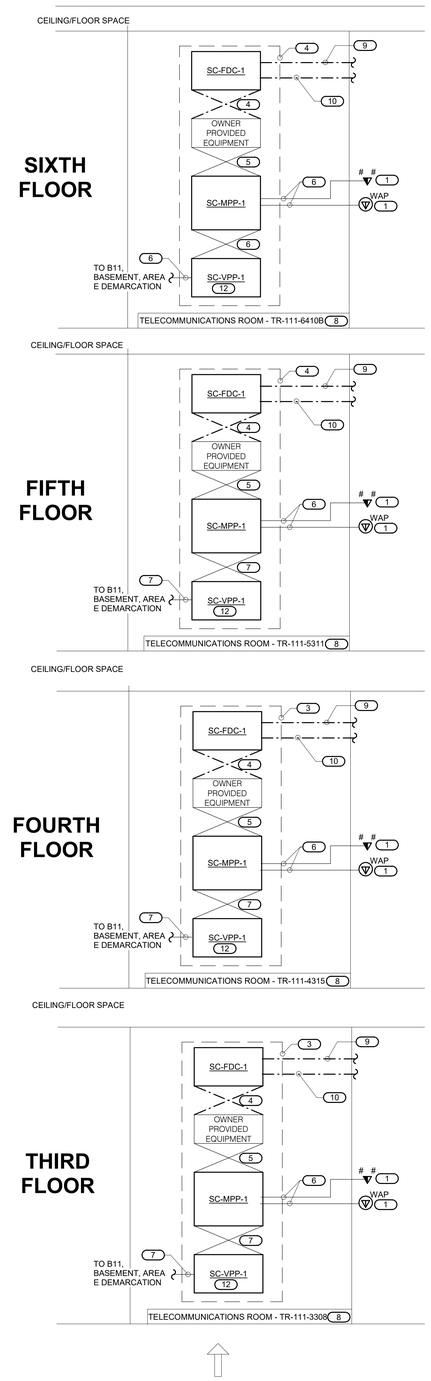

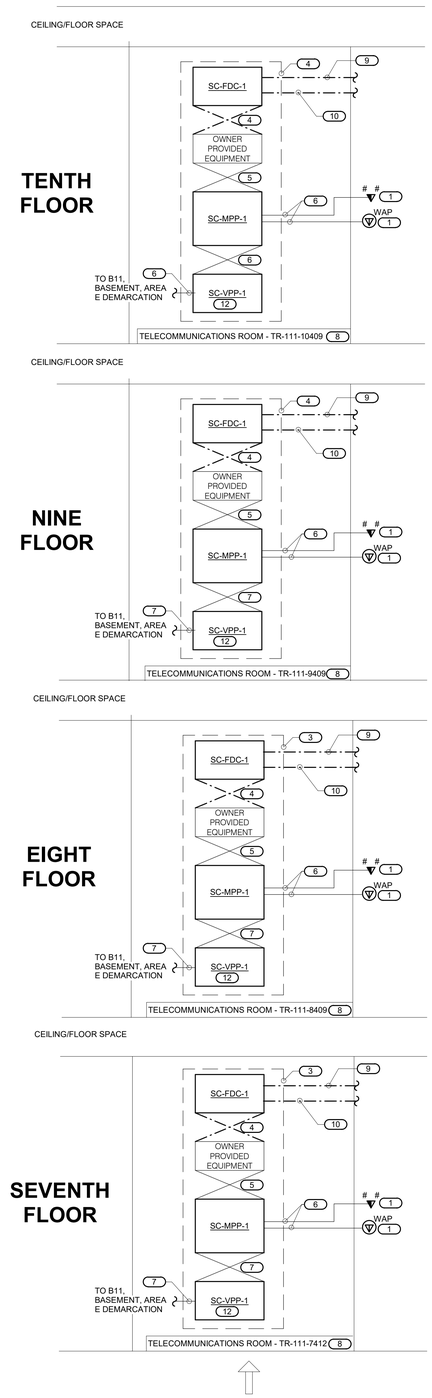

1 BLDG. 111 FIBER OPTIC AND COPPER RISER DIAGRAM

NO SCALE

NOTES:

1. THIS RISER IS DIAGRAMMATIC AND MAY NOT SHOW ACTUAL ROUTING OR QUANTITIES OF MATERIALS SHOWN. THIS RISER IS SHOWN FOR CLARIFICATION OF CONNECTION(S), LOCATIONS AND CABLE TYPE. ALL INFORMATION OUTLETS ARE TYPICAL OF THE OUTLETS IN THE AREA SHOWN. REFER TO FLOOR PLANS FOR MORE SPECIFIC ROUTING INFORMATION. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
2. REFER TO FLOOR PLANS FOR QUANTITY OF CABLES AND JACKS TO BE INSTALLED AT EACH INFORMATION OUTLET.
3. REFER TO THE NEW WORK FLOOR PLANS FOR WHERE SHIELDED HORIZONTAL CABLING IS REQUIRED.
4. ALL NETWORK SWITCHES ARE OWNER PROVIDED. COORDINATE WITH OWNER FOR PROVISIONING AND SEQUENCING.

KEYNOTES: (#)

1. #D/#V INDICATES VOICE/DATA FACEPLATE CONFIGURATION. REFER TO THE INFORMATION OUTLET SCHEDULE ON TN600 FOR ADDITIONAL INFORMATION. REFER TO SPECIFICATIONS SECTION 27 15 00 FOR ADDITIONAL INFORMATION.
2. INFORMATION OUTLET INSTALLED IN E.C. PROVIDED AND INSTALLED FLOOR BOX.
3. RACK OR CABINET AS DEFINED ON THE TELECOM ROOM LAYOUT. REFER TO THE TELECOM ROOM REFERENCES MATRIX ON THE COVERPAGE FOR LOCATION.
4. CONTRACTOR PROVIDED FIBER OPTIC PATCH CORDS. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.
5. OWNER FURNISHED RJ-45 TO RJ45 CATEGORY 6A UTP PATCH CORDS, REFER TO SPECIFICATIONS.
6. 4-PAIR, CATEGORY 6A, SHIELDED TWISTED PAIR CABLE, REFER TO SPECIFICATIONS. ALL HORIZONTAL CABLING IN BUILDING 111 24## ROOM NUMBERS SHALL BE SHIELDED.
7. CONTRACTOR PROVIDED COPPER PATCH CORDS. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.
8. REFER TO COVERPAGE AND FLOOR PLANS FOR TELECOMMUNICATIONS ROOM LOCATIONS.
9. ONE (1) CABLE 24 STRANDS OM4 FIBER OPTIC CABLE AND ONE (1) CABLE 12 STRANDS OS 1 LEG "A" TO ICC ROOM, BUILDING 111.
10. ONE (1) CABLE 24 STRANDS OM4 FIBER OPTIC CABLE AND ONE (1) CABLE 12 STRANDS OS 1 LEG "B" TO ICC ROOM, BUILDING 111.
11. CAT 3 100 PAIR.

Revisions:	Date:
35% SCHEMATIC DESIGN SUBMISSION	5.17.21
65% DESIGN DEVELOPMENT SUBMISSION	6.15.21
65% DESIGN DEVELOPMENT RESUBMISSION	8.25.21

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Office of Construction and Facilities Management
VA U.S. Department of Veterans Affairs

Drawing Title: TECHNOLOGY DIAGRAMS	Phase: FINAL BID DOCUMENTS	Project Title: EHRM INFRASTRUCTURE UPGRADES - MILWAUKEE, WI	Project Number: 695-21-700
			Building Number:
Approved:	Sprinklered: FULLY SPRINKLERED	Location: 5000 W. NATIONAL AVENUE MILWAUKEE, WI	Drawing Number: TN504
		Issue Date: SEPTEMBER 05, 2025 / Checked: PHINIE / Drawn: MAIBEJ	

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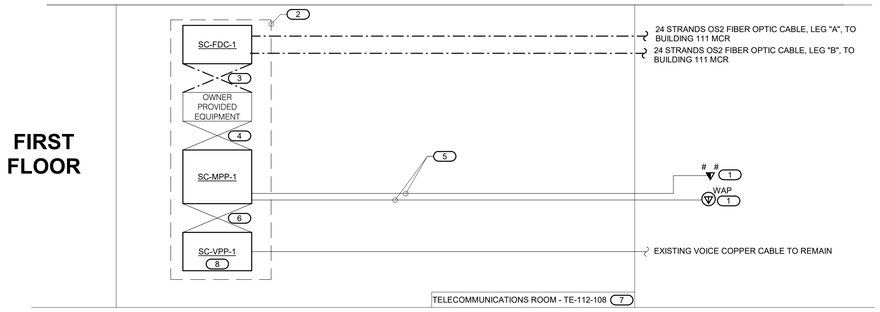


1 BLDG. 112 FIBER OPTIC AND COPPER RISER DIAGRAM

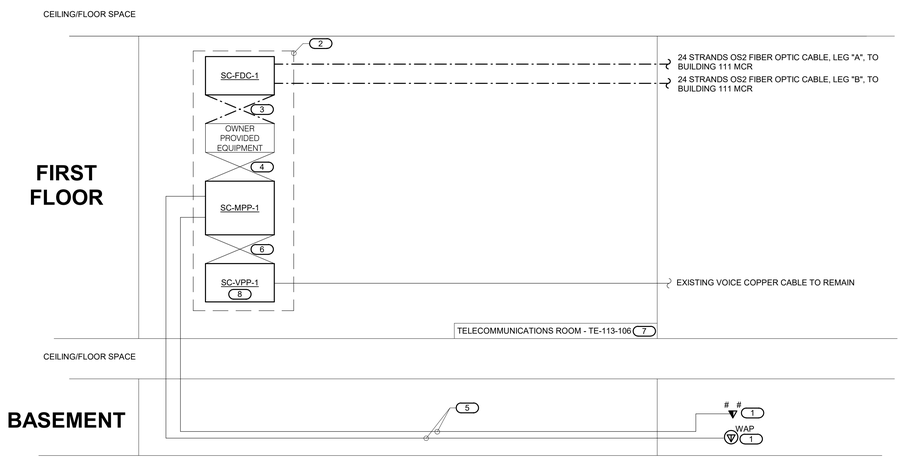
NO SCALE

NOTES:

1. THIS RISER IS DIAGRAMMATIC AND MAY NOT SHOW ACTUAL ROUTING OR QUANTITIES OF MATERIALS SHOWN. THIS RISER IS SHOWN FOR CLARIFICATION OF CONNECTION(S), LOCATIONS AND CABLE TYPE. ALL INFORMATION OUTLETS ARE TYPICAL OF THE OUTLETS IN THE AREA SHOWN. REFER TO FLOOR PLANS FOR MORE SPECIFIC ROUTING INFORMATION. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
2. REFER TO FLOOR PLANS FOR QUANTITY OF CABLES AND JACKS TO BE INSTALLED AT EACH INFORMATION OUTLET.
3. ALL NETWORK SWITCHES ARE OWNER PROVIDED. COORDINATE WITH OWNER FOR PROVISIONING AND SEQUENCING.

KEYNOTES: #

1. #D/#V INDICATES VOICE/DATA FACEPLATE CONFIGURATION. REFER TO THE INFORMATION OUTLET SCHEDULE ON TN600 FOR ADDITIONAL INFORMATION. REFER TO SPECIFICATIONS SECTION 27 15 00 FOR ADDITIONAL INFORMATION.
2. RACK OR CABINET AS DEFINED ON THE TELECOM ROOM LAYOUT. REFER TO THE TELECOM ROOM REFERENCES MATRIX ON THE COVERPAGE FOR LOCATION.
3. CONTRACTOR PROVIDED FIBER OPTIC PATCH CORDS. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.
4. OWNER FURNISHED RJ-45 TO RJ45 CATEGORY 6A UTP PATCH CORDS, REFER TO SPECIFICATIONS.
5. 4-PAIR, CATEGORY 6A, SHIELDED TWISTED PAIR CABLE, REFER TO SPECIFICATIONS. ALL HORIZONTAL CABLING IN BUILDING 112 SHALL BE SHIELDED.
6. CONTRACTOR PROVIDED COPPER PATCH CORDS. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.
7. REFER TO COVERPAGE AND FLOOR PLANS FOR TELECOMMUNICATIONS ROOM LOCATIONS.
8. TERMINATE ONE PAIR PER PORT.



2 BLDG. 113 FIBER OPTIC AND COPPER RISER DIAGRAM

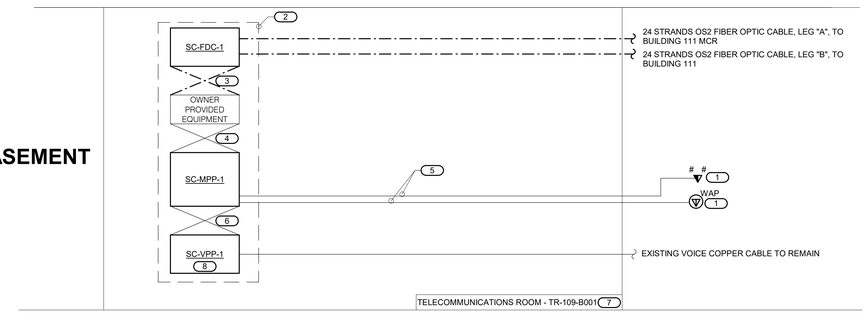
NO SCALE

NOTES:

1. THIS RISER IS DIAGRAMMATIC AND MAY NOT SHOW ACTUAL ROUTING OR QUANTITIES OF MATERIALS SHOWN. THIS RISER IS SHOWN FOR CLARIFICATION OF CONNECTION(S), LOCATIONS AND CABLE TYPE. ALL INFORMATION OUTLETS ARE TYPICAL OF THE OUTLETS IN THE AREA SHOWN. REFER TO FLOOR PLANS FOR MORE SPECIFIC ROUTING INFORMATION. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
2. REFER TO FLOOR PLANS FOR QUANTITY OF CABLES AND JACKS TO BE INSTALLED AT EACH INFORMATION OUTLET.
3. THIS BUILDING DOES NOT SERVE PATIENTS DIRECTLY AND DOES NOT REQUIRE DIVERSE BACKBONE CABLING.
4. ALL NETWORK SWITCHES ARE OWNER PROVIDED. COORDINATE WITH OWNER FOR PROVISIONING AND SEQUENCING.

KEYNOTES: #

1. #D/#V INDICATES VOICE/DATA FACEPLATE CONFIGURATION. REFER TO THE INFORMATION OUTLET SCHEDULE ON TN600 FOR ADDITIONAL INFORMATION. REFER TO SPECIFICATIONS SECTION 27 15 00 FOR ADDITIONAL INFORMATION.
2. RACK OR CABINET AS DEFINED ON THE TELECOM ROOM LAYOUT. REFER TO THE TELECOM ROOM REFERENCES MATRIX ON THE COVERPAGE FOR LOCATION.
3. CONTRACTOR PROVIDED FIBER OPTIC PATCH CORDS. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.
4. OWNER FURNISHED RJ-45 TO RJ45 CATEGORY 6A UTP PATCH CORDS, REFER TO SPECIFICATIONS.
5. 4-PAIR, CATEGORY 6A, SHIELDED TWISTED PAIR CABLE, REFER TO SPECIFICATIONS. ALL HORIZONTAL CABLING IN BUILDING 113 SHALL BE SHIELDED.
6. CONTRACTOR PROVIDED COPPER PATCH CORDS. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.
7. REFER TO COVERPAGE AND FLOOR PLANS FOR TELECOMMUNICATIONS ROOM LOCATIONS.
8. TERMINATE ONE PAIR PER PORT.



3 BLDG. 109 FIBER OPTIC AND COPPER RISER DIAGRAM

NO SCALE

NOTES:

1. THIS RISER IS DIAGRAMMATIC AND MAY NOT SHOW ACTUAL ROUTING OR QUANTITIES OF MATERIALS SHOWN. THIS RISER IS SHOWN FOR CLARIFICATION OF CONNECTION(S), LOCATIONS AND CABLE TYPE. ALL INFORMATION OUTLETS ARE TYPICAL OF THE OUTLETS IN THE AREA SHOWN. REFER TO FLOOR PLANS FOR MORE SPECIFIC ROUTING INFORMATION. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
2. REFER TO FLOOR PLANS FOR QUANTITY OF CABLES AND JACKS TO BE INSTALLED AT EACH INFORMATION OUTLET.
3. THIS BUILDING DOES NOT SERVE PATIENTS DIRECTLY AND DOES NOT REQUIRE DIVERSE BACKBONE CABLING.
4. ALL NETWORK SWITCHES ARE OWNER PROVIDED. COORDINATE WITH OWNER FOR PROVISIONING AND SEQUENCING.

KEYNOTES: #

1. #D/#V INDICATES VOICE/DATA FACEPLATE CONFIGURATION. REFER TO THE INFORMATION OUTLET SCHEDULE ON TN600 FOR ADDITIONAL INFORMATION. REFER TO SPECIFICATIONS SECTION 27 15 00 FOR ADDITIONAL INFORMATION.
2. RACK OR CABINET AS DEFINED ON THE TELECOM ROOM LAYOUT. REFER TO THE TELECOM ROOM REFERENCES MATRIX ON THE COVERPAGE FOR LOCATION.
3. CONTRACTOR PROVIDED FIBER OPTIC PATCH CORDS. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.
4. OWNER FURNISHED RJ-45 TO RJ45 CATEGORY 6A UTP PATCH CORDS, REFER TO SPECIFICATIONS.
5. 4-PAIR, CATEGORY 6A, UNSHIELDED TWISTED PAIR CABLE, REFER TO SPECIFICATIONS.
6. CONTRACTOR PROVIDED COPPER PATCH CORDS. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.
7. REFER TO COVERPAGE AND FLOOR PLANS FOR TELECOMMUNICATIONS ROOM LOCATIONS.
8. TERMINATE ONE PAIR PER PORT.

35% SCHEMATIC DESIGN SUBMISSION	5.17.21
65% DESIGN DEVELOPMENT SUBMISSION	6.15.21
65% DESIGN DEVELOPMENT RESUBMISSION	8.25.21
Revisions:	Date:

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Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: TECHNOLOGY DIAGRAMS

Approved:

Phase: FINAL BID DOCUMENTS

Sprinklered: FULLY SPRINKLERED

Project Title: EHRM INFRASTRUCTURE UPGRADES - MILWAUKEE, WI

Location: 5000 W. NATIONAL AVENUE MILWAUKEE, WI

Issue Date: SEPTEMBER 05, 2025 | Checked: PHINIE | Drawn: MAIBEJ

Project Number: 695-21-700

Building Number:

Drawing Number: TN505

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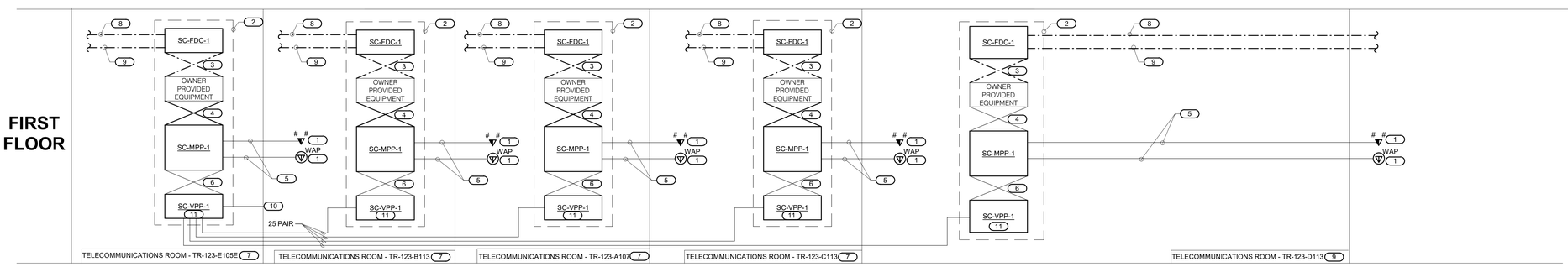


1 BLDG. 123 FIBER OPTIC AND COPPER RISER DIAGRAM

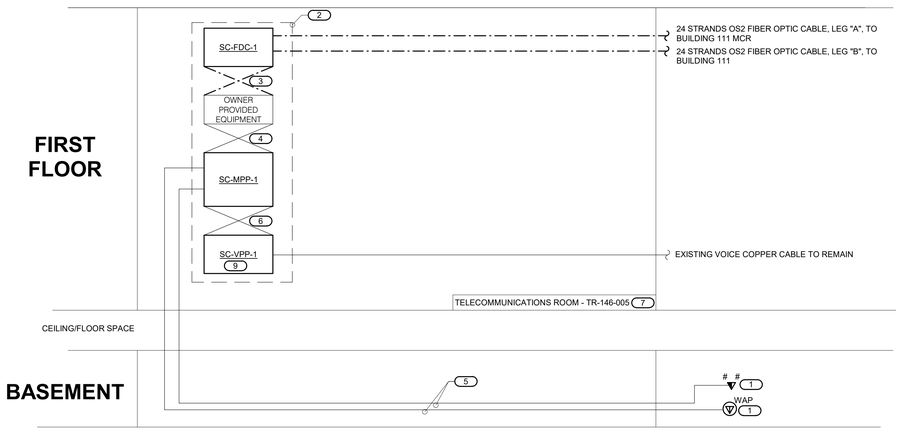
NO SCALE

NOTES:

1. THIS RISER IS DIAGRAMMATIC AND MAY NOT SHOW ACTUAL ROUTING OR QUANTITIES OF MATERIALS SHOWN. THIS RISER IS SHOWN FOR CLARIFICATION OF CONNECTION(S), LOCATIONS AND CABLE TYPE. ALL INFORMATION OUTLETS ARE TYPICAL OF THE OUTLETS IN THE AREA SHOWN. REFER TO FLOOR PLANS FOR MORE SPECIFIC ROUTING INFORMATION. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
2. REFER TO FLOOR PLANS FOR QUANTITY OF CABLES AND JACKS TO BE INSTALLED AT EACH INFORMATION OUTLET.
3. ALL NETWORK SWITCHES ARE OWNER PROVIDED. COORDINATE WITH OWNER FOR PROVISIONING AND SEQUENCING.

KEYNOTES: (#)

1. #D/#V INDICATES VOICE/DATA FACEPLATE CONFIGURATION. REFER TO THE INFORMATION OUTLET SCHEDULE ON TN600 FOR ADDITIONAL INFORMATION. REFER TO SPECIFICATIONS SECTION 27 15 00 FOR ADDITIONAL INFORMATION.
2. RACK OR CABINET AS DEFINED ON THE TELECOM ROOM LAYOUT. REFER TO THE TELECOM ROOM REFERENCES MATRIX ON THE COVERPAGE FOR LOCATION.
3. CONTRACTOR PROVIDED FIBER OPTIC PATCH CORDS. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.
4. OWNER FURNISHED RJ-45 TO RJ45 CATEGORY 6A UTP PATCH CORDS, REFER TO SPECIFICATIONS.
5. 4-PAIR, CATEGORY 6A, UNSHIELDED TWISTED PAIR CABLE, REFER TO SPECIFICATIONS.
6. CONTRACTOR PROVIDED COPPER PATCH CORDS. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.
7. REFER TO COVERPAGE AND FLOOR PLANS FOR TELECOMMUNICATIONS ROOM LOCATIONS.
8. 24 STRANDS OS2 FIBER OPTIC CABLE, LEG "A", TO BUILDING 111.
9. 24 STRANDS OS2 FIBER OPTIC CABLE, LEG "B", TO BUILDING 111.
10. EXISTING VOICE COPPER CABLE TO REMAIN.
11. TERMINATE ONE PAIR PER PORT.



2 BLDG. 146 FIBER OPTIC AND COPPER RISER DIAGRAM

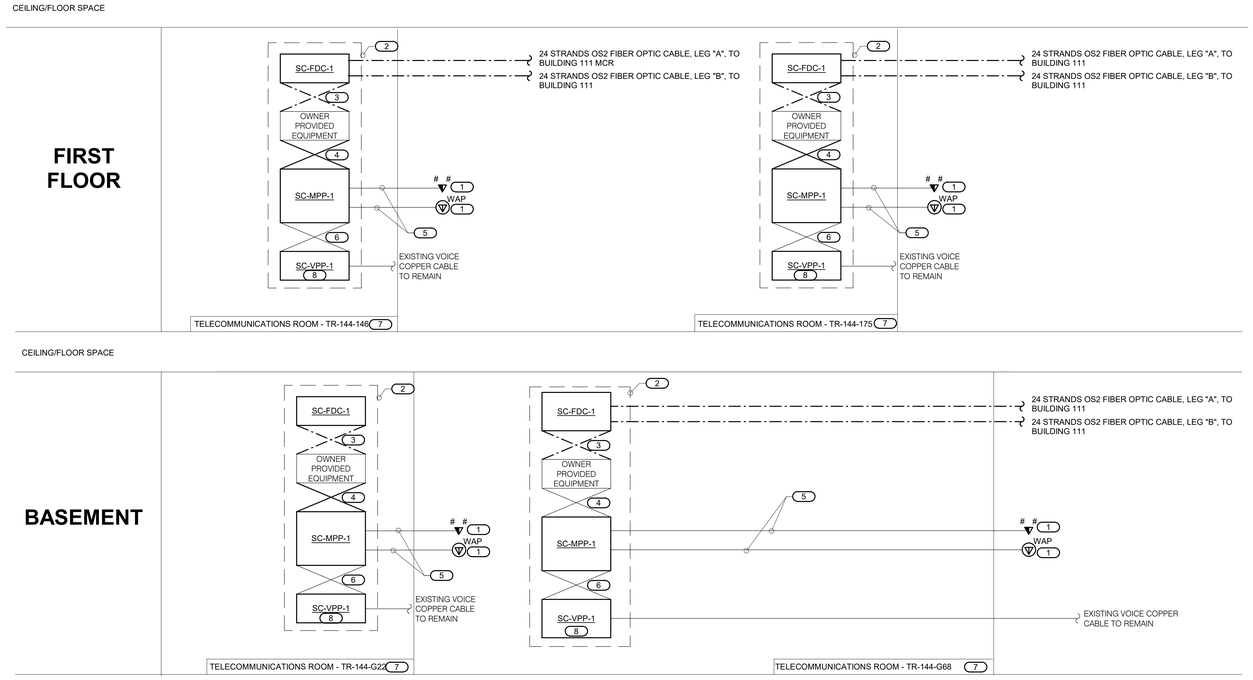
NO SCALE

NOTES:

1. THIS RISER IS DIAGRAMMATIC AND MAY NOT SHOW ACTUAL ROUTING OR QUANTITIES OF MATERIALS SHOWN. THIS RISER IS SHOWN FOR CLARIFICATION OF CONNECTION(S), LOCATIONS AND CABLE TYPE. ALL INFORMATION OUTLETS ARE TYPICAL OF THE OUTLETS IN THE AREA SHOWN. REFER TO FLOOR PLANS FOR MORE SPECIFIC ROUTING INFORMATION. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
2. REFER TO FLOOR PLANS FOR QUANTITY OF CABLES AND JACKS TO BE INSTALLED AT EACH INFORMATION OUTLET.
3. ALL NETWORK SWITCHES ARE OWNER PROVIDED. COORDINATE WITH OWNER FOR PROVISIONING AND SEQUENCING.

KEYNOTES: (#)

1. #D/#V INDICATES VOICE/DATA FACEPLATE CONFIGURATION. REFER TO THE INFORMATION OUTLET SCHEDULE ON TN600 FOR ADDITIONAL INFORMATION. REFER TO SPECIFICATIONS SECTION 27 15 00 FOR ADDITIONAL INFORMATION.
2. RACK OR CABINET AS DEFINED ON THE TELECOM ROOM LAYOUT. REFER TO THE TELECOM ROOM REFERENCES MATRIX ON THE COVERPAGE FOR LOCATION.
3. CONTRACTOR PROVIDED FIBER OPTIC PATCH CORDS. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.
4. OWNER FURNISHED RJ-45 TO RJ45 CATEGORY 6A UTP PATCH CORDS, REFER TO SPECIFICATIONS.
5. 4-PAIR, CATEGORY 6A, UNSHIELDED TWISTED PAIR CABLE, REFER TO SPECIFICATIONS.
6. CONTRACTOR PROVIDED COPPER PATCH CORDS. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.
7. REFER TO COVERPAGE AND FLOOR PLANS FOR TELECOMMUNICATIONS ROOM LOCATIONS.
8. CONTRACTOR PROVIDED COPPER PATCH CORDS. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.
9. TERMINATE ONE PAIR PER PORT.



3 BLDG. 144 FIBER OPTIC AND COPPER RISER DIAGRAM

NO SCALE

NOTES:

1. THIS RISER IS DIAGRAMMATIC AND MAY NOT SHOW ACTUAL ROUTING OR QUANTITIES OF MATERIALS SHOWN. THIS RISER IS SHOWN FOR CLARIFICATION OF CONNECTION(S), LOCATIONS AND CABLE TYPE. ALL INFORMATION OUTLETS ARE TYPICAL OF THE OUTLETS IN THE AREA SHOWN. REFER TO FLOOR PLANS FOR MORE SPECIFIC ROUTING INFORMATION. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
2. REFER TO FLOOR PLANS FOR QUANTITY OF CABLES AND JACKS TO BE INSTALLED AT EACH INFORMATION OUTLET.
3. ALL NETWORK SWITCHES ARE OWNER PROVIDED. COORDINATE WITH OWNER FOR PROVISIONING AND SEQUENCING.

KEYNOTES: (#)

1. #D/#V INDICATES VOICE/DATA FACEPLATE CONFIGURATION. REFER TO THE INFORMATION OUTLET SCHEDULE ON TN600 FOR ADDITIONAL INFORMATION. REFER TO SPECIFICATIONS SECTION 27 15 00 FOR ADDITIONAL INFORMATION.
2. RACK OR CABINET AS DEFINED ON THE TELECOM ROOM LAYOUT. REFER TO THE TELECOM ROOM REFERENCES MATRIX ON THE COVERPAGE FOR LOCATION.
3. CONTRACTOR PROVIDED FIBER OPTIC PATCH CORDS. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.
4. OWNER FURNISHED RJ-45 TO RJ45 CATEGORY 6A UTP PATCH CORDS, REFER TO SPECIFICATIONS.
5. 4-PAIR, CATEGORY 6A, UNSHIELDED TWISTED PAIR CABLE, REFER TO SPECIFICATIONS.
6. CONTRACTOR PROVIDED COPPER PATCH CORDS. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.
7. REFER TO COVERPAGE AND FLOOR PLANS FOR TELECOMMUNICATIONS ROOM LOCATIONS.
8. TERMINATE ONE PAIR PER PORT.

35% SCHEMATIC DESIGN SUBMISSION	5.17.21
65% DESIGN DEVELOPMENT SUBMISSION	6.15.21
65% DESIGN DEVELOPMENT RESUBMISSION	8.25.21
Revisions:	Date:

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Office of Construction and Facilities Management
VA U.S. Department of Veterans Affairs

Drawing Title: TECHNOLOGY DIAGRAMS	Phase: FINAL BID DOCUMENTS	Project Title: EHRM INFRASTRUCTURE UPGRADES - MILWAUKEE, WI	Project Number: 695-21-700
			Building Number:
Approved:	Sprinklered: FULLY SPRINKLERED	Location: 5000 W. NATIONAL AVENUE MILWAUKEE, WI	Drawing Number: TN506
		Issue Date: SEPTEMBER 05, 2025 / Checked: PHINIE / Drawn: MAIBEJ	

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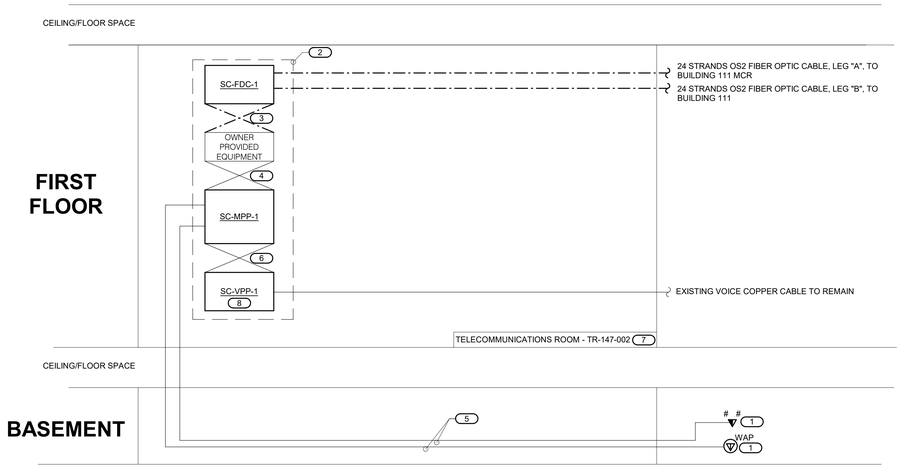


1 BLDG. 147 FIBER OPTIC AND COPPER RISER DIAGRAM

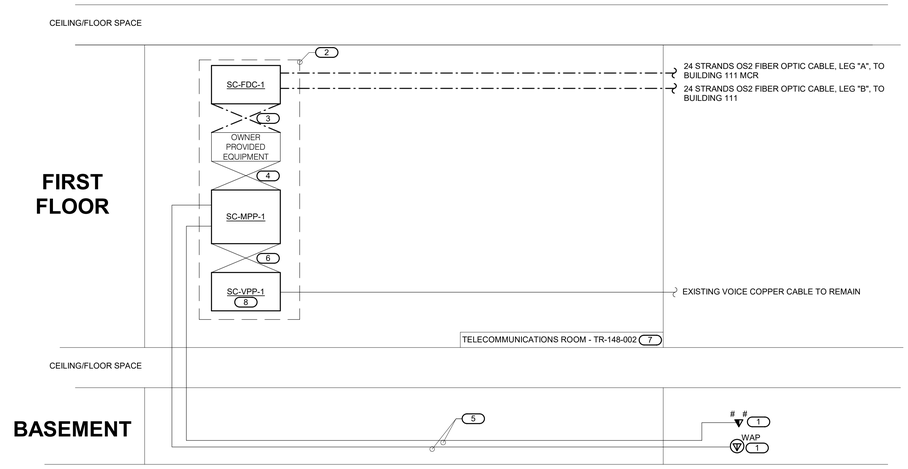
NO SCALE

NOTES:

1. THIS RISER IS DIAGRAMMATIC AND MAY NOT SHOW ACTUAL ROUTING OR QUANTITIES OF MATERIALS SHOWN. THIS RISER IS SHOWN FOR CLARIFICATION OF CONNECTION(S), LOCATIONS AND CABLE TYPE. ALL INFORMATION OUTLETS ARE TYPICAL OF THE OUTLETS IN THE AREA SHOWN. REFER TO FLOOR PLANS FOR MORE SPECIFIC ROUTING INFORMATION. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
2. REFER TO FLOOR PLANS FOR QUANTITY OF CABLES AND JACKS TO BE INSTALLED AT EACH INFORMATION OUTLET.
3. ALL NETWORK SWITCHES ARE OWNER PROVIDED. COORDINATE WITH OWNER FOR PROVISIONING AND SEQUENCING.

KEYNOTES: #

1. #D/#V INDICATES VOICE/DATA FACEPLATE CONFIGURATION. REFER TO THE INFORMATION OUTLET SCHEDULE ON TN600 FOR ADDITIONAL INFORMATION. REFER TO SPECIFICATIONS SECTION 27 15 00 FOR ADDITIONAL INFORMATION.
2. RACK OR CABINET AS DEFINED ON THE TELECOM ROOM LAYOUT. REFER TO THE TELECOM ROOM REFERENCES MATRIX ON THE COVERPAGE FOR LOCATION.
3. CONTRACTOR PROVIDED FIBER OPTIC PATCH CORDS. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.
4. OWNER FURNISHED RJ-45 TO RJ45 CATEGORY 6A UTP PATCH CORDS, REFER TO SPECIFICATIONS.
5. 4-PAIR, CATEGORY 6A, UNSHIELDED TWISTED PAIR CABLE, REFER TO SPECIFICATIONS.
6. CONTRACTOR PROVIDED COPPER PATCH CORDS. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.
7. REFER TO COVERPAGE AND FLOOR PLANS FOR TELECOMMUNICATIONS ROOM LOCATIONS.
8. TERMINATE ONE PAIR PER PORT.



2 BLDG. 148 FIBER OPTIC AND COPPER RISER DIAGRAM

NO SCALE

NOTES:

1. THIS RISER IS DIAGRAMMATIC AND MAY NOT SHOW ACTUAL ROUTING OR QUANTITIES OF MATERIALS SHOWN. THIS RISER IS SHOWN FOR CLARIFICATION OF CONNECTION(S), LOCATIONS AND CABLE TYPE. ALL INFORMATION OUTLETS ARE TYPICAL OF THE OUTLETS IN THE AREA SHOWN. REFER TO FLOOR PLANS FOR MORE SPECIFIC ROUTING INFORMATION. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
2. REFER TO FLOOR PLANS FOR QUANTITY OF CABLES AND JACKS TO BE INSTALLED AT EACH INFORMATION OUTLET.
3. ALL NETWORK SWITCHES ARE OWNER PROVIDED. COORDINATE WITH OWNER FOR PROVISIONING AND SEQUENCING.

KEYNOTES: #

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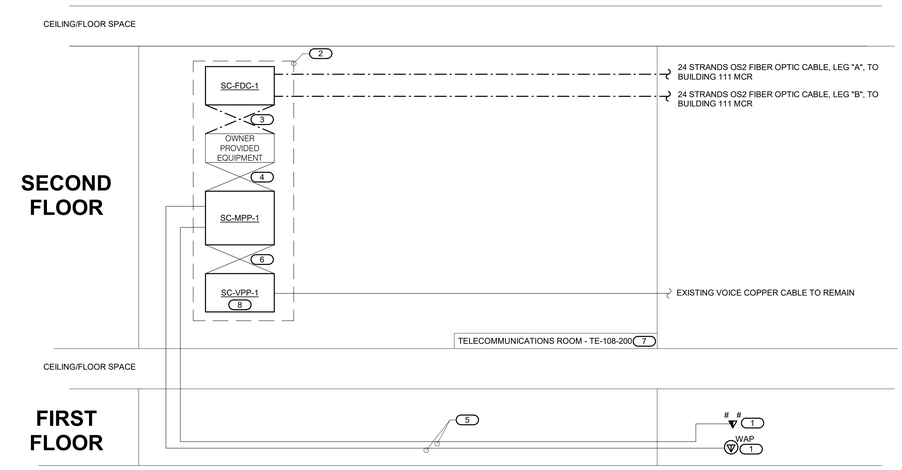
4. OWNER FURNISHED RJ-45 TO RJ45 CATEGORY 6A UTP PATCH CORDS, REFER TO SPECIFICATIONS.
5. 4-PAIR, CATEGORY 6A, UNSHIELDED TWISTED PAIR CABLE, REFER TO SPECIFICATIONS.
6. CONTRACTOR PROVIDED COPPER PATCH CORDS. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.
7. REFER TO COVERPAGE AND FLOOR PLANS FOR TELECOMMUNICATIONS ROOM LOCATIONS.
8. TERMINATE ONE PAIR PER PORT.



3 BLDG. 108 FIBER OPTIC AND COPPER RISER DIAGRAM

NO SCALE

NOTES:

1. THIS RISER IS DIAGRAMMATIC AND MAY NOT SHOW ACTUAL ROUTING OR QUANTITIES OF MATERIALS SHOWN. THIS RISER IS SHOWN FOR CLARIFICATION OF CONNECTION(S), LOCATIONS AND CABLE TYPE. ALL INFORMATION OUTLETS ARE TYPICAL OF THE OUTLETS IN THE AREA SHOWN. REFER TO FLOOR PLANS FOR MORE SPECIFIC ROUTING INFORMATION. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
2. REFER TO FLOOR PLANS FOR QUANTITY OF CABLES AND JACKS TO BE INSTALLED AT EACH INFORMATION OUTLET.
3. ALL NETWORK SWITCHES ARE OWNER PROVIDED. COORDINATE WITH OWNER FOR PROVISIONING AND SEQUENCING.

KEYNOTES: #

1. #D/#V INDICATES VOICE/DATA FACEPLATE CONFIGURATION. REFER TO THE INFORMATION OUTLET SCHEDULE ON TN600 FOR ADDITIONAL INFORMATION. REFER TO SPECIFICATIONS SECTION 27 15 00 FOR ADDITIONAL INFORMATION.
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4. OWNER FURNISHED RJ-45 TO RJ45 CATEGORY 6A UTP PATCH CORDS, REFER TO SPECIFICATIONS.
5. 4-PAIR, CATEGORY 6A, UNSHIELDED TWISTED PAIR CABLE, REFER TO SPECIFICATIONS.
6. CONTRACTOR PROVIDED COPPER PATCH CORDS. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.
7. REFER TO COVERPAGE AND FLOOR PLANS FOR TELECOMMUNICATIONS ROOM LOCATIONS.
8. TERMINATE ONE PAIR PER PORT.

35% SCHEMATIC DESIGN SUBMISSION	5.17.21
65% DESIGN DEVELOPMENT SUBMISSION	6.15.21
65% DESIGN DEVELOPMENT RESUBMISSION	8.25.21
Revisions:	Date:

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Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: TECHNOLOGY DIAGRAMS

Approved:

Phase: FINAL BID DOCUMENTS

Sprinklered: FULLY SPRINKLERED

Project Title: EHRM INFRASTRUCTURE UPGRADES - MILWAUKEE, WI

Location: 5000 W. NATIONAL AVENUE MILWAUKEE, WI

Issue Date: SEPTEMBER 05, 2025 | Checked: PHINIE | Drawn: MAIBEJ

Project Number: 695-21-700

Building Number:

Drawing Number: TN507

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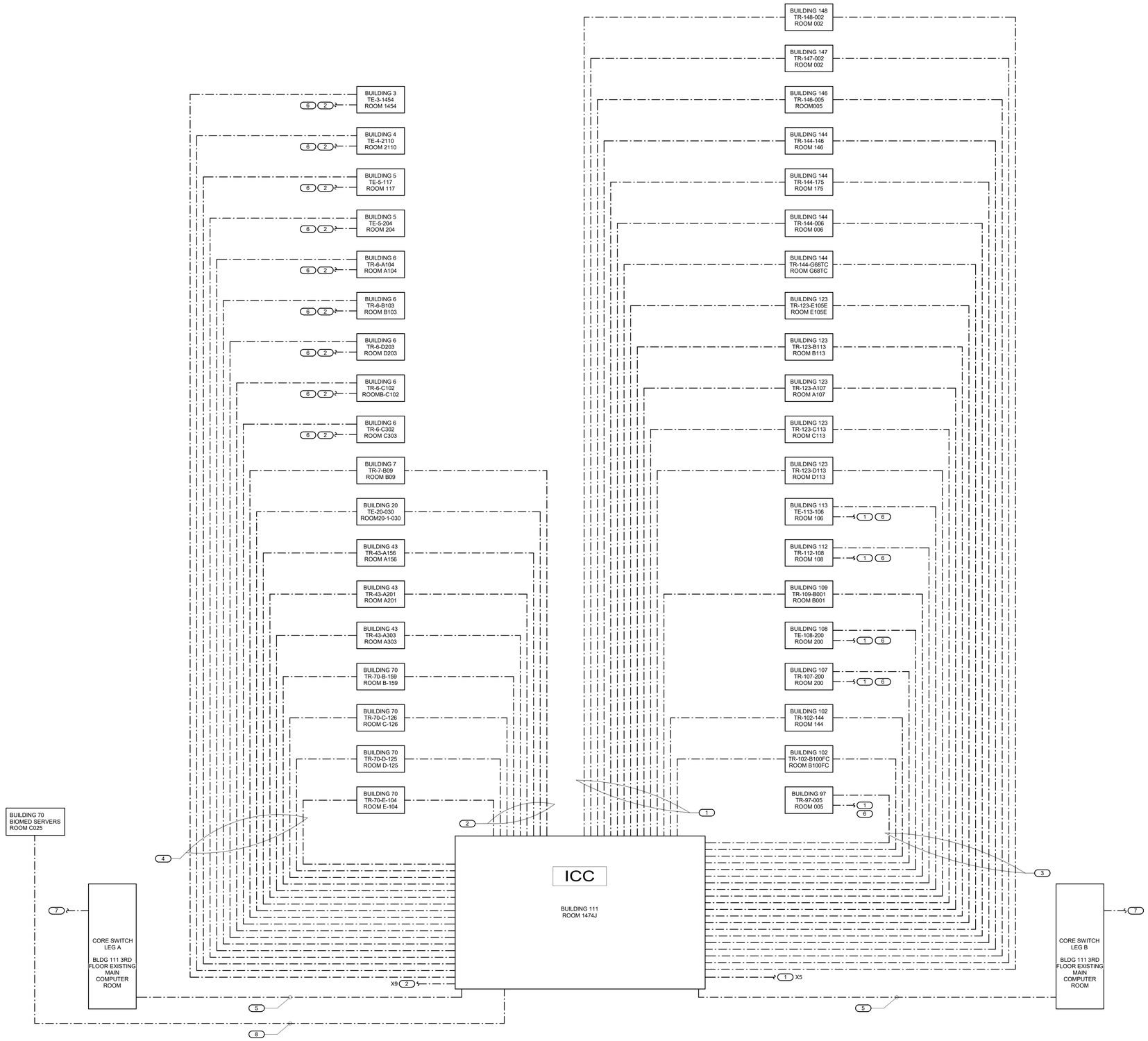

GENERAL NOTES:

1. THIS RISER IS DIAGRAMMATIC AND MAY NOT SHOW ACTUAL ROUTING OR QUANTITIES OF MATERIALS SHOWN. THIS RISER IS SHOWN FOR CLARIFICATION OF CONNECTION(S), LOCATIONS AND CABLE TYPE. REFER TO RISER DIAGRAMS OF INDIVIDUAL BUILDINGS FOR ADDITIONAL INFORMATION. REFER TO FLOOR PLANS FOR MORE SPECIFIC ROUTING INFORMATION. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
2. UNLESS OTHERWISE NOTED, EACH BUILDING WITHIN THE SCOPE OF THIS PROJECT SHALL HAVE TWO (2) BACKBONE CABLING PATHS TO BUILDING 111. THESE ARE DEFINED AS LEGS "A" AND "B".
3. THIS RISER DIAGRAM SHOWS BACKBONE FIBER OPTIC CABLE TO ALL BUILDINGS EXCEPT BUILDING 111, AS THE MAIN COMPUTER ROOM (MCR) IS LOCATED IN BUILDING 111. REFER TO TN504 FOR BUILDING 111 BACKBONE RISER DIAGRAM.

KEYNOTES: (#)

1. 24 STRANDS OS2 FIBER OPTIC CABLE, LEG "A".
2. 24 STRANDS OS2 FIBER OPTIC CABLE, LEG "B".
3. 24 STRANDS OS2 FIBER OPTIC CABLE, LEG "B".
4. 24 STRANDS OS2 FIBER OPTIC CABLE, LEG "A".
5. 480 STRANDS OS1 FIBER. THESE CONNECTIONS ARE TEMPORARY UNTIL COMPLETION OF THE NEW MCR AS PART OF A SEPARATE PROJECT. CONTRACTOR FOR THIS SEPARATE MECR PROJECT SHALL DEMOLISH THESE TEMPORARY CONNECTIONS AFTER THE INTERNAL MCR CABLING HAS BEEN INSTALLED, TESTED AND IS OPERATIONAL.
6. THIS SECONDARY PATHWAY IS DUAL, IT IS NOT DIVERSE, AS PHYSICAL SEPERATION IS NOT REQUIRED. LEGS "A" AND "B" SHALL BE ROUTED IN THE SAME PATHWAY.
7. FROM SERVICE PROVIDER DEMARCATION ROOMS. ONE EXISTING FROM BASEMENT AND ONE NEW FROM LEVEL ONE ROOM 1470.
8. 48 STRANDS OF OS1 FIBER OPTIC CABLE.

1 SITE FIBER RISER DIAGRAM

NO SCALE

Revisions:	Date:
35% SCHEMATIC DESIGN SUBMISSION	5.17.21
65% DESIGN DEVELOPMENT SUBMISSION	6.15.21
65% DESIGN DEVELOPMENT RESUBMISSION	8.25.21

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VA U.S. Department of Veterans Affairs

Drawing Title: TECHNOLOGY SITE RISER	Phase: FINAL BID DOCUMENTS	Project Title: EHRM INFRASTRUCTURE UPGRADES - MILWAUKEE, WI	Project Number: 695-21-700
Approved:	Sprinklered: FULLY SPRINKLERED	Location: 5000 W. NATIONAL AVENUE MILWAUKEE, WI	Building Number:
		Issue Date: SEPTEMBER 05, 2025 / Checked: PHINIE / Drawn: MAIBEJ	Drawing Number: TN508

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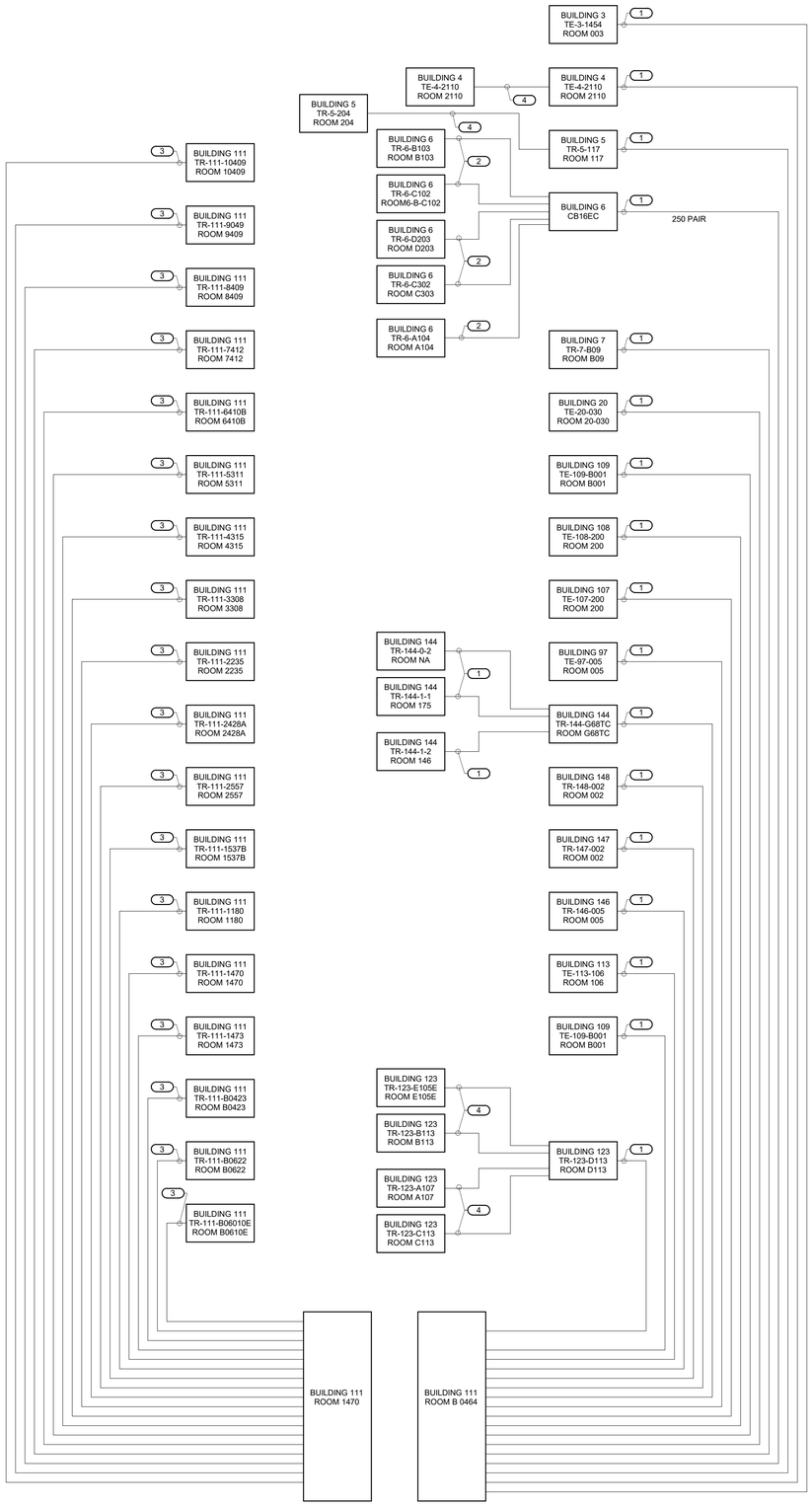

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2. ALL ANALOG POT LINES TO PATIENT ROOMS IN BUILDING 111 ARE TO REMAIN AS ANALOG LINES AND ARE TO BE RE-CABLED TO THE NEW TRS.

KEYNOTES: (#)

1. EXISTING COPPER VOICE CABLE TO REMAIN, PROTECT IN PLACE.
2. NEW 50 PAIR COPPER CABLE.
3. NEW 100 PAIR COPPER CABLE.
4. NEW 25 PAIR COPPER CABLE.

1 SITE COPPER BACKBONE RISER DIAGRAM

NO SCALE

Revisions:	Date:
35% SCHEMATIC DESIGN SUBMISSION	5.17.21
65% DESIGN DEVELOPMENT SUBMISSION	6.15.21
65% DESIGN DEVELOPMENT RESUBMISSION	8.25.21

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Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: TECHNOLOGY SITE RISER	Phase: FINAL BID DOCUMENTS	Project Title: EHRM INFRASTRUCTURE UPGRADES - MILWAUKEE, WI	Project Number: 695-21-700
Approved:	Sprinklered: FULLY SPRINKLERED	Location: 5000 W. NATIONAL AVENUE MILWAUKEE, WI	Building Number:
		Issue Date: SEPTEMBER 05, 2025 / Checked: PHINIE / Drawn: MAIBEJ	Drawing Number: TN509

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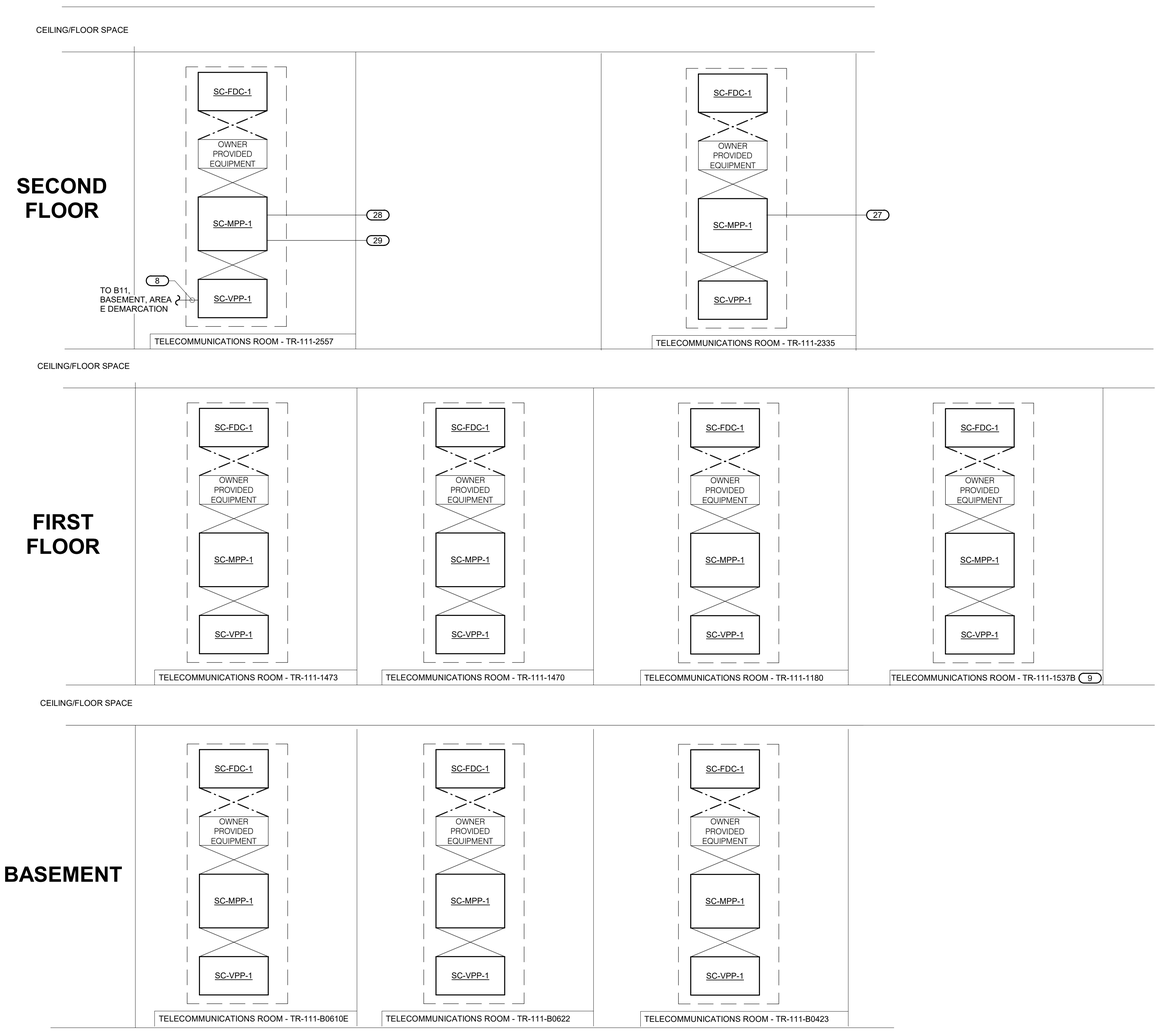
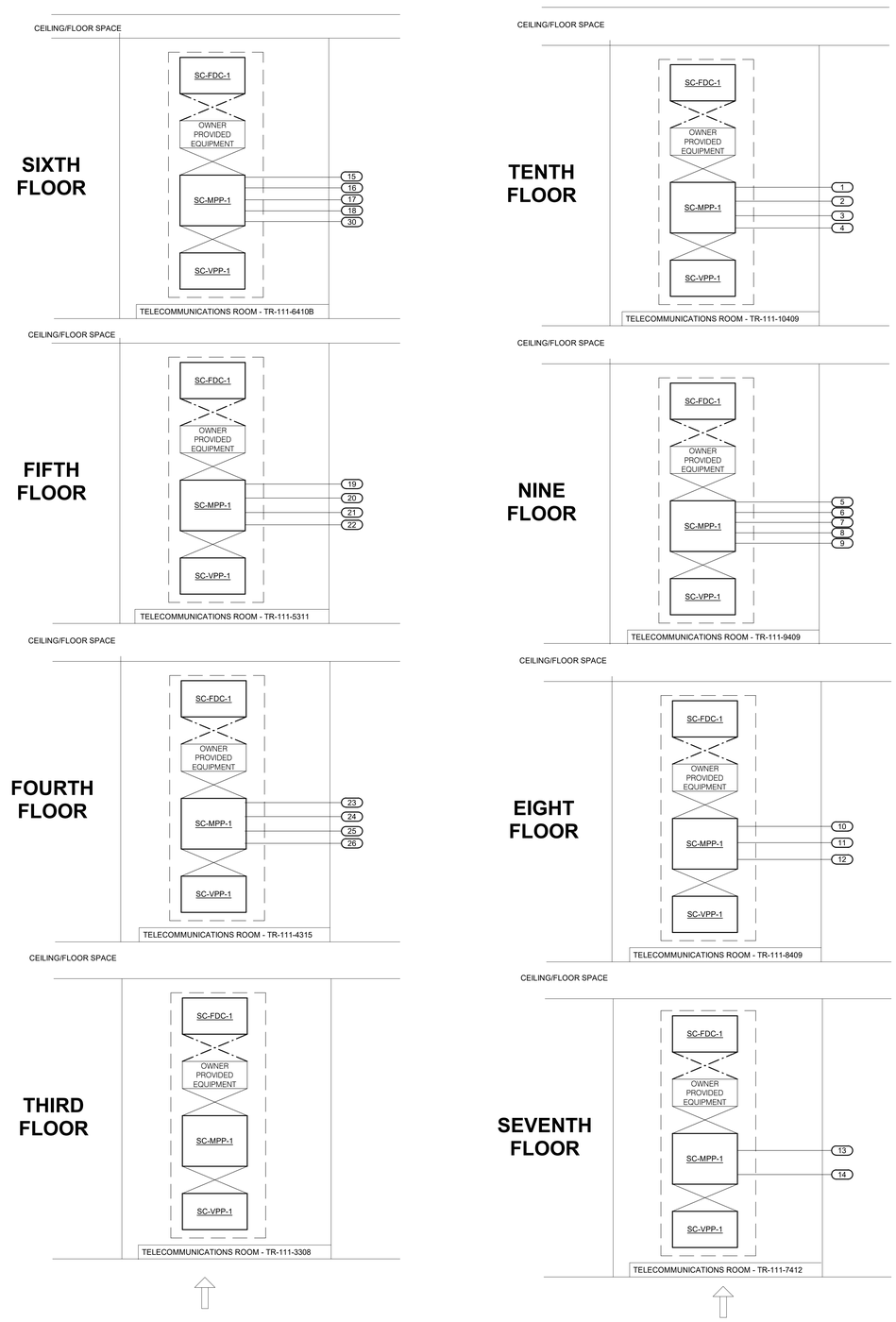


1 RISER FOR EXISTING BIOMED AND AUXILLIARY SYSTEMS TO REMAIN

NO SCALE

NOTES:
1. NO WORK FOR THE BIOMED SYSTEMS BASEMENT, FIRST AND THIRD FLOORS. THESE ARE SHOWN FOR REFERENCE ONLY.

KEYNOTES: #
1. TWO (2) CAT 6A CABLES ROUTED TO AND TERMINATED IN EXISTING DATA CLOSET, ROOM 10CS. JCI/SYSTEC TO TERMINATE IN EXISTING TO REMAIN PANELS IN ROOM 10CS.
2. ONE (1) CAT 6A CABLE ROUTED TO AND TERMINATED IN EXISTING DATA CLOSET, ROOM 10CN. JCI/SYSTEC TO TERMINATE IN EXISTING TO REMAIN PANELS IN ROOM 10CN.
3. THREE (3) CAT 6A CABLE ROUTED TO AND TERMINATED IN EXISTING DATA CLOSET, ROOM 10AN. JCI/SYSTEC TO TERMINATE IN EXISTING TO REMAIN PANELS IN ROOM 10AN.
4. 48 CAT 6A CABLES ROUTED TO AND TERMINATED IN EXISTING SIM LAB, ROOM 10141A.
5. ONE (1) CAT 6A CABLE ROUTED TO AND TERMINATED IN EXISTING DATA CLOSET, ROOM 9AS FOR EXISTING TO REMAIN BIOMED LEAF SYSTEM.
6. ONE (1) CAT 6A CABLE ROUTED TO AND TERMINATED IN EXISTING DATA CLOSET, ROOM 9AN. JCI/SYSTEC TO TERMINATE IN EXISTING TO REMAIN PANELS IN ROOM 9AN.
7. ONE (1) CAT 6A CABLE ROUTED TO AND TERMINATED IN EXISTING DATA CLOSET, ROOM 9CN FOR EXISTING TO REMAIN BIOMED LEAF SYSTEM.
8. TWO (2) CAT 6A CABLES ROUTED TO AND TERMINATED IN EXISTING DATA CLOSET, ROOM 9CN. JCI/SYSTEC TO TERMINATE IN EXISTING TO REMAIN PANELS IN ROOM 9CN.
9. ONE (1) CAT 6A CABLE ROUTED TO AND TERMINATED IN EXISTING DATA CLOSET, ROOM 9CS FOR EXISTING TO REMAIN BIOMED LEAF SYSTEM.
10. FIVE (5) CAT 6A CABLES ROUTED TO AND TERMINATED IN EXISTING DATA CLOSET, ROOM 8CN. JCI/SYSTEC TO TERMINATE IN EXISTING TO REMAIN PANELS IN ROOM 8CN.
11. FIVE (5) CAT 6A CABLES ROUTED TO AND TERMINATED IN EXISTING DATA CLOSET, ROOM 8AN. JCI/SYSTEC TO TERMINATE IN EXISTING TO REMAIN PANELS IN ROOM 8AN.
12. ELEVEN (11) CAT 6A CABLES ROUTED TO AND TERMINATED IN EXISTING DATA CLOSET, ROOM 8AS. JCI/SYSTEC TO TERMINATE IN EXISTING TO REMAIN PANELS IN ROOM 8AS.
13. ONE (1) CAT 6A CABLE ROUTED TO AND TERMINATED IN EXISTING DATA CLOSET, ROOM 7CN FOR EXISTING TO REMAIN BIOMED LEAF SYSTEM.
14. ONE (1) CAT 6A CABLE ROUTED TO AND TERMINATED IN EXISTING DATA CLOSET, ROOM 7CS FOR EXISTING TO REMAIN BIOMED LEAF SYSTEM.
15. ONE (1) CAT 6A CABLE ROUTED TO AND TERMINATED IN EXISTING DATA CLOSET, ROOM 6CS FOR EXISTING TO REMAIN BIOMED LEAF SYSTEM.
16. ONE (1) CAT 6A CABLE ROUTED TO AND TERMINATED IN EXISTING DATA CLOSET, ROOM 6CS. JCI/SYSTEC TO TERMINATE IN EXISTING TO REMAIN PANELS IN ROOM 10CN.
17. ONE (1) CAT 6A CABLE ROUTED TO AND TERMINATED IN EXISTING DATA CLOSET, ROOM 6CN FOR EXISTING TO REMAIN BIOMED LEAF SYSTEM.
18. ONE (1) CAT 6A CABLE ROUTED TO AND TERMINATED IN EXISTING DATA CLOSET, ROOM 6CN. JCI/SYSTEC TO TERMINATE IN EXISTING TO REMAIN PANELS IN ROOM 10CN.
19. ONE (1) CAT 6A CABLE ROUTED TO AND TERMINATED IN EXISTING DATA CLOSET, ROOM 5455 5B. JCI/SYSTEC TO TERMINATE IN EXISTING TO REMAIN PANELS IN ROOM 5455 5B.
20. ONE (1) CAT 6A CABLE ROUTED TO AND TERMINATED IN EXISTING DATA CLOSET, ROOM 5CN FOR EXISTING TO REMAIN BIOMED LEAF SYSTEM.
21. ONE (1) CAT 6A CABLE ROUTED TO AND TERMINATED IN EXISTING DATA CLOSET, ROOM 5CN. JCI/SYSTEC TO TERMINATE IN EXISTING TO REMAIN PANELS IN ROOM 5CN.
22. THREE (3) CAT 6A CABLES ROUTED TO AND TERMINATED IN EXISTING DATA CLOSET, ROOM 5CN, FOR EXISTING TO REMAIN BIOMED APEX PRO DEVICES.
23. ONE (1) CAT 6A CABLE ROUTED TO AND TERMINATED IN EXISTING DATA CLOSET, ROOM 4CN FOR EXISTING TO REMAIN BIOMED LEAF SYSTEM.
24. THREE (3) CAT 6A CABLES ROUTED TO AND TERMINATED IN EXISTING DATA CLOSET, ROOM 4CN, FOR EXISTING TO REMAIN BIOMED APEX PRO DEVICES.
25. ONE (1) CAT 6A CABLE ROUTED TO AND TERMINATED IN EXISTING DATA CLOSET, ROOM 4CN. JCI/SYSTEC TO TERMINATE IN EXISTING TO REMAIN PANELS IN ROOM 4CN.
26. ONE (1) CAT 6A CABLE ROUTED TO AND TERMINATED IN EXISTING DATA CLOSET, ROOM 4CS FOR EXISTING TO REMAIN BIOMED LEAF SYSTEM.
27. THIRTY (30) CAT 6A CABLES ROUTED TO AN TERMINATED IN EXISTING DATA CLOSET, ROOM 2105 FOR EXTRON ELEC EQUIPMENT.
28. SIX (6) CAT 6A CABLES ROUTED TO AND TERMINATED IN EXISTING DATA CLOSET, ROOM 2557, FOR EXISTING TO REMAIN BIOMED APEX PRO DEVICES.
29. ONE (1) CAT 6A CABLE ROUTED TO AND TERMINATED IN EXISTING DATA CLOSET, ROOM 2532A FOR EXISTING TO REMAIN BIOMED LEAF SYSTEM.
30. SIX (6) CAT 6A CABLES ROUTED TO AND TERMINATED IN EXISTING DATA CLOSET, ROOM 6CN, FOR (4) ETR BIOMED APEX PRO DEVICES.



35% SCHEMATIC DESIGN SUBMISSION	5.17.21
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Revisions:	Date:

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VA U.S. Department of Veterans Affairs

Drawing Title
RISER FOR EXISTING BIOMED AND AUXILIARY SYSTEMS TO REMAIN

Approved:

Phase
FINAL BID DOCUMENTS

Sprinklered
FULLY SPRINKLERED

Project Title
EHRM INFRASTRUCTURE UPGRADES - MILWAUKEE, WI

Location
5000 W. NATIONAL AVENUE MILWAUKEE, WI

Issue Date SEPTEMBER 05, 2025
Checked PHINIE
Drawn MAIBEJ

Project Number 695-21-700
Building Number
Drawing Number TN510

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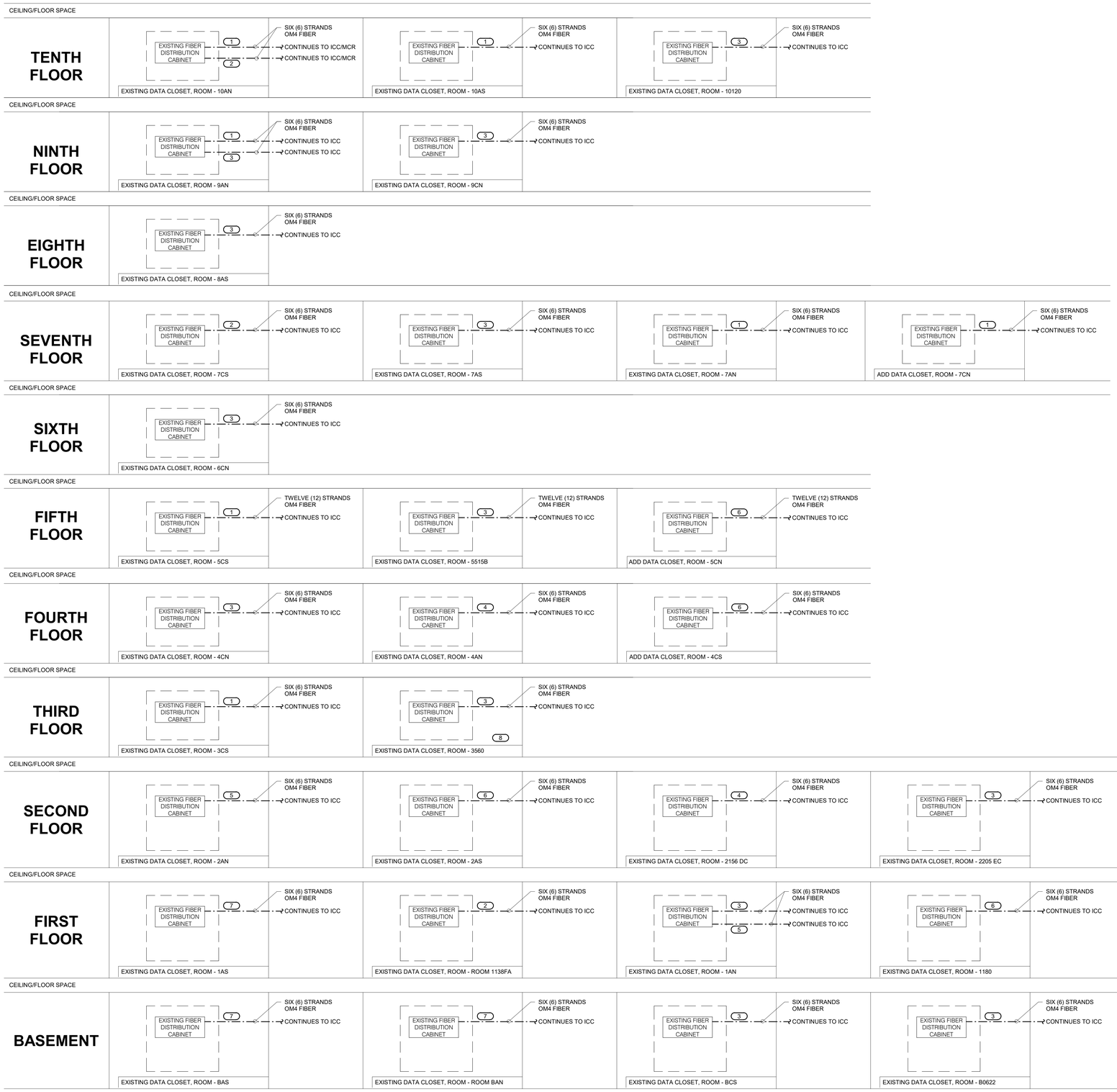

1 BIOMED FIBER OPTIC RISER DIAGRAM

NO SCALE

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1. THIS RISER IS DIAGRAMMATIC AND MAY NOT SHOW ACTUAL ROUTING OR QUANTITIES OF MATERIALS SHOWN. THIS RISER IS SHOWN FOR CLARIFICATION OF CONNECTION(S), LOCATIONS AND CABLE TYPE. ALL INFORMATION OUTLETS ARE TYPICAL OF THE OUTLETS IN THE AREA SHOWN. REFER TO FLOOR PLANS FOR MORE SPECIFIC ROUTING INFORMATION. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

KEYNOTES: #

1. FIBER FOR EXISTING JCI CAMERA NETGEAR SWITCH. CONTRACTOR SHALL FURNISH AND INSTALL FIBER PATCH CABLES FROM FIBER CABINET TO SWITCH. CONTRACTOR SHALL RELOCATE FIBER CABINET FROM THE EXISTING RACK TO THE WALL. CONTRACTOR SHALL COORDINATE WITH COR FOR EXACT LOCATION OF FIBER CABINET MOUNTING.
2. FIBER FOR EXISTING CISCO WATCHFIRE SWITCH. CONTRACTOR SHALL FURNISH AND INSTALL FIBER PATCH CABLES FROM FIBER CABINET TO SWITCH. CONTRACTOR SHALL RELOCATE FIBER CABINET FROM THE EXISTING RACK TO THE WALL. CONTRACTOR SHALL COORDINATE WITH COR FOR EXACT LOCATION OF FIBER CABINET MOUNTING.
3. FIBER FOR EXISTING JERON NURSE CALL PANEL. CONTRACTOR SHALL FURNISH AND INSTALL FIBER PATCH CABLES FROM FIBER CABINET TO NURSE CALL PANEL. CONTRACTOR SHALL RELOCATE FIBER CABINET FROM THE EXISTING RACK TO THE WALL. CONTRACTOR SHALL COORDINATE WITH COR FOR EXACT LOCATION OF FIBER CABINET MOUNTING.
4. FIBER FOR EXISTING RESEARCH SWITCH. CONTRACTOR SHALL FURNISH AND INSTALL FIBER PATCH CABLES FROM FIBER CABINET TO SWITCH. CONTRACTOR SHALL RELOCATE FIBER CABINET FROM THE EXISTING RACK TO THE WALL. CONTRACTOR SHALL COORDINATE WITH COR FOR EXACT LOCATION OF FIBER CABINET MOUNTING.
5. FIBER FOR EXISTING MOBILE ACCESS ANTENNA. CONTRACTOR SHALL FURNISH AND INSTALL FIBER PATCH CABLES FROM FIBER CABINET TO ANTENNA. CONTRACTOR SHALL RELOCATE FIBER CABINET FROM THE EXISTING RACK TO THE WALL. CONTRACTOR SHALL COORDINATE WITH COR FOR EXACT LOCATION OF FIBER CABINET MOUNTING.
6. FIBER FOR EXISTING BIOMED EQUIPMENT. CONTRACTOR SHALL FURNISH AND INSTALL FIBER PATCH CABLES FROM FIBER CABINET TO BIOMED EQUIPMENT. CONTRACTOR SHALL RELOCATE FIBER CABINET FROM THE EXISTING RACK TO THE WALL. CONTRACTOR SHALL COORDINATE WITH COR FOR EXACT LOCATION OF FIBER CABINET MOUNTING.
7. ICC/MCR IS REFERENCE TO NEW MCR, ROOM.
8. NURSE CALL CONTRACTOR SHALL PROVIDE AND INSTALL A FIBER OPTIC MEDIA CONVERTER FOR RE-TERMINATION OF THE NURSE CALL SYSTEM.

Revisions:	Date:
35% SCHEMATIC DESIGN SUBMISSION	5.17.21
65% DESIGN DEVELOPMENT SUBMISSION	6.15.21
65% DESIGN DEVELOPMENT RESUBMISSION	8.25.21

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EXPIRES 12-31-25
RCDD

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: BIOMED FIBER OPTIC RISER DIAGRAM	Phase: FINAL BID DOCUMENTS	Project Title: EHRM INFRASTRUCTURE UPGRADES - MILWAUKEE, WI	Project Number: 695-21-700
Approved:	Sprinklered: FULLY SPRINKLERED	Location: 5000 W. NATIONAL AVENUE MILWAUKEE, WI	Building Number:
		Issue Date: SEPTEMBER 05, 2025 / Checked: PHINIE / Drawn: MAIBEJ	Drawing Number: TN511

VA FORM 08 - 6231

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Graphic Scale: 11/8" = 1'-0" (32' / 16' / 8' / 0')
Graphic Scale: 1/8" = 1'-0" (16' / 8' / 4' / 0')
Graphic Scale: 3/32" = 1'-0" (2' / 1' / 8" / 4" / 0')
Graphic Scale: 1/4" = 1'-0" (4' / 2' / 1' / 0')
Graphic Scale: 3/8" = 1'-0" (4' / 2' / 1' / 0')
Graphic Scale: 1/2" = 1'-0" (4' / 2' / 1' / 0')
Graphic Scale: 3/4" = 1'-0" (2' / 1' / 6" / 0')
Graphic Scale: 1" = 1'-0" (2' / 1' / 6" / 0')
Graphic Scale: 1 1/2" = 1'-0" (1' 6" / 1' / 6" / 3" / 0')

TECHNOLOGY EQUIPMENT SCHEDULE

THE EQUIPMENT LIST ABBREVIATIONS AND THE GENERAL TECHNOLOGY EQUIPMENT SCHEDULE ARE FOR THE CONVENIENCE OF THE CONTRACTOR. EACH CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFICATION OF QUANTITIES AND SHALL FURNISH ALL MATERIAL REQUIRED, WHETHER SPECIFIED OR NOT, TO PRODUCE A SATISFACTORY WORKING SYSTEM.

CATALOG NUMBERS ARE NOT TO BE CONSIDERED COMPLETE BUT ARE GIVEN ONLY TO AID THE CONTRACTOR IN THE SEARCH FOR MATERIAL. NO MATERIAL SHALL BE ORDERED BY MANUFACTURER AND CATALOG NUMBER ONLY. EACH CONTRACTOR SHALL FIRST READ THE COMPLETE DESCRIPTION OF THE MATERIAL ON THESE DRAWINGS AND SPECIFICATIONS. THE FIRST MANUFACTURER LISTED IS THE BASIS OF DESIGN. "STANDARD COLOR" INDICATES FACTORY FINISH AVAILABLE AT NO ADDITIONAL CHARGE.

EQUIPMENT LIST ABBREVIATION	EQUIPMENT LIST DESCRIPTION	EQUIPMENT LIST MANUFACTURER AND MODEL
AC-CR2-W	ACCESS CONTROL AUTHORIZATION DEVICE, CARD READER WITH KEYPAD.	
AC-DC	ACCESS CONTROL DOOR CONTACT. SURFACE MOUNT OR PLUNGER SWITCH STYLE. INCLUDE BRACKETS FOR MOUNTING TO TELECOM ENCLOSURE	MAGNASPHERE MSS-K24S GRI APPROVED EQUAL
AC-SCP-1	ACCESS CONTROL PANEL WITH ASSOCIATED 12V AND 24VB POWER SUPPLIES. NETWORK CONNECTED CONTROLLER, DUAL READER INTERFACE BOARDS, I/O BOARDS. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION	JOHNSON CONTROLS P2000 NO APPROVED ALTERNATE
PW-CPW-1	FIRE RATED PATHWAY FOR TELECOMMUNICATIONS CABLE HEAVY GAUGE GALVANIZED STEEL PATHWAY LINED WITH INTUMESCENT MATERIAL ENGINEERED FOR RAPID EXPANSION WHEN EXPOSED TO FIRE OR HIGH TEMPERATIRES.	STI EZ PATH 44" EXTENSION MODULE EZD44ES OR APPROVED EQUAL
PW-HH-1	HANDHOLE COMPOSITE POLYMER CONCRETE BODY AND COVER. STAINLESS STEEL HARDWARE BOLTED NON-SKID COVER RATED FOR 15,000LB. DESIGN LOAD OCCASIONAL NON-DELIBERATE VEHICULAR TRAFFIC. STACK UNITS TO ACHIEVE DEPTH SHOWN ON PLANS. UNITS IN LANDSCAPED AREAS SHALL BE GREEN IN COLOR. "COMMUNICATIONS" LOGO ON HANHOLE COVER. CONTRACTOR SHALL FIELD VERIFY QUANTITY AND LOCATIONS. REFER TO 2/T400 FOR DETAIL. PW-HH-1 = 24"WX36"L.	HUBBELL/QUAZITE PG SERIES CARSON INDUSTRIES ARMORCAST HIGHLINE PRODUCTS OR APPROVED EQUAL
PW-MH-1	PRECAST CONCRETE MANHOLE, 6' X 6' X 6'. PROVIDE WITH 30SB SHALLOW FRAME AND COVER DESIGN TO MEET AASHTO HS-20 LOADING SPECIFICATIONS. COVER SHALL BE LABELED COMMUNICATIONS. REFER TO DETAIL ON 3/T400 FOR ADDITIONAL INFORMATION.	UTILITY CONCRETE PRODUCTS OR APPROVED EQUAL
SC-BLK-1	RACK BLANKING PANEL, FLAT, 1 RU	LEVITON 49254-BP1 CHATSWORTH PRODUCTS
SC-CAB-1	ENCLOSED SERVER CABINET, FLOOR MOUNT, 84.6"H x 23.6"W X 43.3"D, 19" PANEL MOUNTING, SQUARE PUNCH CAGE NUT RAILS, 45RU. PERFORATED METAL FRONT DOOR WITH KEYED	CHATSWORTH F-SERIES TERAFRAME GEN3: FF1N-113C-E42-B (WHITE) OR PRE-APPROVED EQUAL
SC-ER-1	TELECOMMUNICATIONS CHANNEL RACK. 30" DEEP, 7' HIGH, WHITE FINISH, 45RU USABLE HEIGHT, 23.75" WIDE,STATIC LOAD CAPACITY OF 2,000 POUNDS, SQUARE HOLES. REFER TO 4/B00-TN600 TYPICAL RACK DIMENSIONS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.	ORTRONICS MM2073038-W OR PRE-APPROVED EQUAL
SC-FDC-1	1-RU ANGLED FIBER DISTRIBUTION ENCLOSURE. 144 MAXIMUM FIBERS WITH SLIDING CASSETTES. PROVIDE COMPLETE WITH FIBER ADAPTER PANELS WITH LC CONNECTORS FOR ALL TERMINATED FIBERS. PROVIDE BLANK PANELS FOR ALL UNUSED OPENINGS. REFER TO 2/B00-TN600 FIBER DISTRIBUTION CABINET FOR ADDITIONAL INFORMATION. PROVIDE CABLE CLAMP KITS AS REQUIRED, 5RCMP-KIT.	LEVITON HDX1A-144 FIBER ADAPTER PANELS SPLCH-12A (OM4) SPLCH-12L (SM) CABLE MANAGER: E2XHD-CMB BLANKS 5F100-PLT OR PRE-APPROVED EQUAL
SC-GND-1	WALL MOUNTED GROUND BAR ASSEMBLIES WITH LUG KITS. 2" H X 12" L X 1/4" D COPPER, ELECTRICALLY ISOLATED BY INSULATORS INTEGRAL TO MOUNTING BRACKETS. KIT CONTAINS THREE (3) SETS OF #2 2-HOLE LUGS WITH 3/8" HARDWARE, SIX (6) SETS OF #6 2-HOLE LUGS WITH 1/4" HARDWARE, ONE (1) SET OF 2/0 2-HOLE LUG WITH 3/8" HARDWARE. ANSI/EIA/TIA-607-D AND BICSI COMPLIANT. UL LISTED. REFER TO 5/B00-TN401 SECONDARY BONDING BUS BAR (SBB) DETAIL FOR ADDITIONAL INFORMATION.	CHATSWORTH PRODUCTS 40156-012 OR PRE-APPROVED EQUAL
SC-GND-2	RACK MOUNT GROUND BAR. DIMENSION: 1" HEIGHT, 0.188" LENGTH, 19.375" WIDTH, COPPER MATERIAL, 10 DOUBLE-HOLE LUGS VIA A MINIMUM OF 20 PRE-DRILLED AND TAPPED HOLES, ON AN ANGLED PATTERN. INCLUDES HORIZONTAL RACK GROUND BAR KIT, GROUNDING ACCESSORIES. ANSI/EIA/TIA-607-D AND BICSI COMPLIANT. UL LISTED.	EATON SBHB119K OR PRE-APPROVED EQUAL
SC-HWM-1	HORIZONTAL CABLE MANAGER, SINGLE SIDED WITH COVER, 4" DEEP, INCLUDES MOUNTING HARDWARE, 1 RU, RACK WIDTH 19", COLOR BLACK	ORTRONICS SHMC1RU OR APPROVED EQUAL
SC-HWM-2	HORIZONTAL CABLE MANAGER, SINGLE SIDED WITH COVER, 4" DEEP, INCLUDES MOUNTING HARDWARE, 2 RU, RACK WIDTH 19", COLOR BLACK	ORTRONICS SHMC2RU OR APPROVED EQUAL
SC-IO-C	<varies>	<varies>
SC-IO-F	INFORMATION OUTLET, MOUNTED IN EXISTING FLOOR BOX. COVERPLATE AS INDICATED ON DRAWINGS. " # " INDICATES INFORMATION OUTLET FACEPLATE CONFIGURATION AS INDICATED ON THE DRAWINGS. REFER TO INFORMATION OUTLET SCHEDULE ON T600 FOR ADDITIONAL INFORMATION. INSTALL INFORMATION OUTLET IN A 4" SQUARE BACKBOX WITH A SINGLE GANG PLASTER RING. INSTALL A 1" EMT CONDUIT TO AREA SERVING TELECOM ROOM. PROVIDE REMOVABLE BLANK INSERTS FOR UNUSED PORTS.	ORTRONICS OR APPROVED EQUAL
SC-IO-W	INFORMATION OUTLET, WALL MOUNT, 2-PORT COVERPLATE AS INDICATED ON DRAWINGS. REFER TO 3/B00-TN600 TYPICAL INFORMATION OUTLET CONFIGURATIONS FOR ADDITIONAL INFORMATION. "#" INDICATES INFORMATION OUTLET FACEPLATE CONFIGURATION AS INDICATED ON THE PLANS. REFER TO B00-TN700 FOR INFORMATION OUTLET SCHEDULE FOR PIN CONFIGURATION. INSTALL NEW INFORMATION OUTLET IN A 4" SQUARE, 2-7/8" DEEP BACKBOX WITH A SINGLE/DOUBLE GANG PLASTER RING. INSTALL A 1" EMT CONDUIT TO ABOVE ACCESSIBLE CEILING. PROVIDE REMOVABLE BLANK INSERTS FOR UNUSED PORTS.	FACEPLATE LEVITON 42080 SERIES JACKS LEVITON 6AUJK-R*6
SC-MPP-1	MODULAR PATCH PANEL, RACK MOUNT, 48 MODULAR RJ-45 TERMINATIONS, MOUNTS DIRECTLY TO EIA/TIA STANDARD 19" RELAY RACK, PORT IDENTIFICATION NUMBERS, PROVIDED WITH COLOR CODING AND LABEL HOLDER KITS, U.L. LISTED. REQUIRES (1) 1.75" MOUNTING SPACES. ANGLED WITH REAR CABLE MANAGER AND ANGLED PANEL COVERS	PATCH PANEL LEVITON E2X-HD JACKS LEVITON 6AUJK-RB6 BLANKS 41084-0BE ANGLED COVER E2XHD-COV CABLE MANAGER E2XHD-CMB OR PRE-APPROVED EQUAL
SC-PDU-1	RACK PDU, BASIC, 1U, INPUT: 100/120V WITH NEMA L5-30P, RATED CURRENT 24A, MAX CURRENT 24A, LOAD CAPACITY 2880VA. OUTPUT: 120V 10 NEMA 5-20R, RACK MOUNT, 1U, UL LISTED.	APC AP9560 OR PRE-APPROVED EQUAL
SC-PDU-2	METERED RACK PDU, REAL-TIME REMOTE MONITORING, USER-DEFINED ALARMS, ACCESS, CONFIGURE, AND MANAGE REMOTELY, NETWORK MANAGEMENT VIA WEB, SNMP AND COMMAND LINE INTERFACE, (6) IEC 60320 C19, (2) NEMA 5-20, (36) IEC 60320 C13 OUTLETS, VERTICAL PDU. INPUT: 208V 3PHASE WITH NEMA L21-20P, RATED CURRENT 16A, MAX CURRENT 20A, LOAD CAPACITY 5700VA. OUTPUT: 120V/208V 2 NEMA 5-20R, 36 IEC 60320 C13, 6 IEC 60320 C19.	APC AP8861 OR PRE-APPROVED EQUAL
SC-PDU-3	MONITORED ECONNECT PDU; BLACK; VERTICAL; FOR 42U & HIGHER CABINETS; L21-20 INPUT; (30) C13+(6) C19 + (6) 5-20 OUTLETS; 5.7KW; 149°F (65°C); SECURE ARRAY IP CONSOLIDATION; PHASE-BALANCE LOCKING OUTLETS; FIELD-REPLACABLE CONTROLLER; +/-1% METERING ACCURACY; LCD DISPLAY; 10/100/1000MB PORT; ONBOARD GUI; SNMPV1/V2/V3; RESTFUL API; CLI; LDAP & RADIUS INTEGRATION; HTTPS; ENVIRONMENTAL SENSOR AND ELECTRONIC LOCK INTEGRATION READY; 100% RATED HYDROLIC MAGNETIC BREAKERS; TOOL-LESS MOUNTING.	CHATSWORTH PRODUCTS EA-3013-C OR PRE-APPROVED EQUAL
SC-PDU-4	30A THREE PHASE ZONE PDU BASE UNIT, REAR CIRCUITS WITH FOUR L21-20R AND SIX NEMA 5-20 OUTLETS AND TWO 10FT POWER CORDS TERMINATING IN L21-30P.	ZONIT Z-PDS 208V30A-L21-4L21-20R-CR
SC-SURGE	RACK MOUNTED DEVICE	ORTRONICS OR APPROVED EQUAL
SC-TTB	TELECOMMUNICATIONS TERMINAL BOARD, 4' X 8' X 3/4" A-C GRADE FIRE-RATED PLYWOOD. EXPOSED SIDE SHALL BE SMOOTH. MOUNT VERTICALLY WITH TOP OF PLYWOOD AT 8'6" A.F.F.	*
SC-UPS-1	MODULAR THREE PHASE UPS, POWER RATING 5KVA/5KW, INPUT VOLTAGE/FREQUENCY NOMINAL 120/208V, 50/60HZ AUTO-SENSING (3PH+N+G), OUTPUT VOLTAGE / FREQUENCY 120/208V, 50/60HZ ± 0.1HZ; (3PH+N), EFFICIENCY UP TO 98% ECO MODE, 93% ONLINE MODE, MINIMUM RUNTIME AT FULL LOAD 10 MINUTES, SYSTEM ENCLOSURE : 17.3"W X 31.5"D X 10.5"H (6U) / 34 LBS, POWER MODULE 16.3"W X 24" D X 5.2"H / 38 LBS, BATTERY MODULE 16.3"W X 24"D X 5.2"H / 107 LBS. UL LISTED. PROVIDE WITH L21-20P LINE CORD, RECEPTACLE PANEL, EXTENDED BATTERY CABINET, CASTER BASE, NIC CARD AND 4-POST RAIL KIT.	EXTREME POWER M90C-2S5K RECEPTACLE PANELS: (1) L21-20R AND BREAKER M90C-RP1 NO SUBSTITUTION
SC-UPS-2	SMART UPS, RACK MOUNT, LINE INTERACTIVE, 3KVA, RACK/TOWER CONVERTIBLE 2U, 100V-127V, 3X 5-15R + 3X 5-20R + 1X L5-30R NEMA, SMARTSLOT, EXTENDED RUNTIME. INPUT : 100-127V WITH NEMA L5-30P, OUTPUT: 120V WITH (3) NEMA 5-15R, (3) NEMA 5-20R, (1) NEMA L5-30R, LEAD ACID BATTERY, 2700KW, 2880VA.	APC SMX3000RMLV2U OR PRE-APPROVED EQUAL

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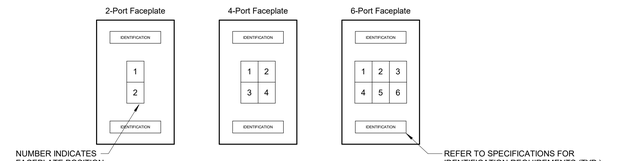
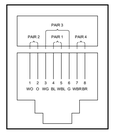
EQUIPMENT LIST ABBREVIATION	EQUIPMENT LIST DESCRIPTION	EQUIPMENT LIST MANUFACTURER AND MODEL
SC-VPP-1	MODULAR PATCH PANEL FOR VOICE TERMINATIONS. RACK MOUNT, 48 MODULAR RJ-45 TERMINATIONS, MOUNTS DIRECTLY TO EIA/TIA STANDARD 19" RELAY RACK, PORT IDENTIFICATION NUMBERS, PROVIDED WITH	LEVITON e2HHD-BLK HUBBELL PANDUIT BELDEN OR APPROVED EQUAL
SC-VPP-2	MODULAR PATCH PANEL FOR VOICE TERMINATIONS. RACK MOUNT, 48 MODULAR RJ-45 TERMINATIONS, MOUNTS DIRECTLY TO EIA/TIA STANDARD 19" RELAY RACK, PORT IDENTIFICATION NUMBERS, PROVIDED WITH	LEVITON e2HHD-BLK HUBBELL PANDUIT BELDEN OR APPROVED EQUAL
SC-VWM-1	VERTICAL CABLE MANAGEMENT CAGE WITH DOOR, 6.45" X 10.26" X 76.94" WHITE, CAPACITY 245 CATEGORY 6A PATCH CORDS.	ORTRONICS MM20VMD706-W

INFORMATION OUTLET SCHEDULE - Single and Double Gange Wallplates

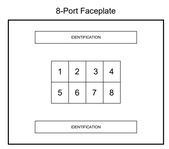
SINGLE GANG WALLPLATES





ANSI/TIA/EIA T568B PIN/PAIR ASSIGNMENT

DOUBLE GANG WALLPLATES



NOTES:
1. PROVIDE REMOVALBLE BLANK INSER(S) FOR ALL UNUSED PORTS.
2. REFER TO SPECIFICATIONS SECTION 27 05 53 FOR ADDITIONAL INFORMATION ON LABELING REQUIREMENTS.
3. REFER TO SPECIFICATION SECTION 271000i FOR INFORMATION ON JACKET COLOR FOR HORIZONTAL CABLING.

SCHEDULE NOTES:
1. LOCATION OF FUTURE OR OWNER PROVIDED WIRELESS ACCESS POINT. PROVIDE A 20' SLACK COIL AT THE NEAREST CABLE SUPPORT FOR POSSIBLE RELOCATION AFTER WIRELESS SURVEY.

LEGEND

DATA	CAT 6A RJ-45
VOICE	CAT 6A RJ-45

CONFIGURATION	FACEPLATE PORTS	FACEPLATE PORT IDENTIFICATION: POSITION 1 JACK TYPE	POSITION 2 JACK TYPE	POSITION 3 JACK TYPE	POSITION 4 JACK TYPE	POSITION 5 JACK TYPE	POSITION 6 JACK TYPE	POSITION 7 JACK TYPE	POSITION 8 JACK TYPE	POSITION 9 JACK TYPE	POSITION 10 JACK TYPE	POSITION 11 JACK TYPE	POSITION 12 JACK TYPE	NOTES
1D	<varies>	DATA	<varies>											
1D-1V	2	VOICE	DATA											
1D-2V	3	VOICE	VOICE	DATA										
1D-CAM	2	DATA	BLANK											
1D-WAP	2	DATA	BLANK											1.
1V	1	VOICE												
2D	2	DATA	DATA											
2D-1V	3	VOICE	DATA	DATA										
2D-2V	4	VOICE	VOICE	DATA	DATA									
2D-3V	6	VOICE	VOICE	VOICE	DATA	DATA	DATA							
2V	2	VOICE	VOICE											
3D	4	DATA	DATA	DATA	BLANK									
3D-1V	4	VOICE	DATA	DATA	DATA									
3D-2V	6	VOICE	VOICE	DATA	DATA	DATA								
4D	4	DATA	DATA	DATA	DATA									
4D-1V	6	VOICE	DATA	DATA	DATA	DATA								
4D-2V	6	VOICE	VOICE	DATA	DATA	DATA	DATA							
4V	4	VOICE	VOICE	VOICE	VOICE									
5D	6	DATA	DATA	DATA	DATA	DATA	BLANK							
6D	6	DATA	DATA	DATA	DATA	DATA	DATA							
6D-2V	8	VOICE	VOICE	DATA	DATA	DATA	DATA	DATA						
6V	6	VOICE	VOICE	VOICE	VOICE	VOICE	VOICE							
8D	8	DATA	DATA	DATA	DATA	DATA	DATA	DATA	DATA					
10D	10	DATA	DATA	DATA	DATA	DATA	DATA	DATA	DATA	DATA	DATA			
W	1	VOICE												
WAP	2	DATA	BLANK											

35% SCHEMATIC DESIGN SUBMISSION	5.17.21
65% DESIGN DEVELOPMENT SUBMISSION	6.15.21
65% DESIGN DEVELOPMENT RESUBMISSION	8.25.21
Revisions:	Date:

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EXPIRES 12-31-25
RCDD

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: TECHNOLOGY SCHEDULES	Phase: FINAL BID DOCUMENTS	Project Title: EHRM INFRASTRUCTURE UPGRADES - MILWAUKEE, WI	Project Number: 695-21-700
Approved:	Sprinklered: FULLY SPRINKLERED	Location: 5000 W. NATIONAL AVENUE MILWAUKEE, WI	Building Number:
		Issue Date: SEPTEMBER 05, 2025 / Checked: PHINIE / Drawn: MAIBEJ	Drawing Number: TN600

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CONTROLLED SECURITY SCHEME (CSS) TYPE SCHEDULE

GENERAL NOTES:
1. READER, DOOR POSITION SWITCH, REQUEST TO EXIT AND ELECTRONIC LOCKING ARE INTEGRATED INTO ONE UNIT AS PART OF THE DOOR HARDWARE.
2. REFER TO DOOR HARDWARE SPECIFICATION FOR DOOR HARDWARE SETS AS IT RELATES TO THIS SCHEDULE.

		CREDENTIAL READER		REQUEST TO EXIT		DOOR HARDWARE							
TR #	ROUGH-IN ONLY	CREDENTIAL READER TYPE	MULTIPLE CREDENTIAL READERS OPERATES SINGLE DOOR	INTERNAL ELECTRIFIED HARDWARE CONNECTION	LOCAL PUSHBUTTON DOOR HARDWARE OVERRIDE	MOTION DETECTOR	ELECTRONIC LOCKING HARDWARE (BY DIV. 8)	MAG LOCK	LATCH STATUS DETECTION	LOCAL ALARM HORN	MONITOR LATCH BOLT	MONITOR DOOR POSITION SWITCH SPDT	MONITOR DOOR POSITION SWITCH DPDT	MONITOR DOOR POSITION SWITCH FOR OVERHEAD DOOR	NOTES
TE-3-1454		CR1		•			•					•			
TE-20-1-030		CR1		•			•					•			
TE-97-005		CR1		•			•					•			
TE-107-200		CR1		•			•					•			
TE-108-200		CR1		•			•					•			
TE-109-B001		CR1		•			•					•			
TE-112-108		CR1		•			•					•			
TE-113-106		CR1		•			•					•			
TR-4-2110		CR1		•			•					•			
TR-5-117		CR1		•			•					•			
TR-5-204		CR1		•			•					•			
TR-6-A104		CR1		•			•					•			
TR-6-B103		CR1		•			•					•			
TR-6-C102		CR1		•			•					•			
TR-6-C302		CR1		•			•					•			
TR-6-D203		CR1		•			•					•			
TR-7-B09		CR1		•			•					•			
TR-43-A156		CR1		•			•					•			
TR-43-A201		CR1		•			•					•			
TR-43-A303		CR1		•			•					•			
TR-70-B-159		CR1		•			•					•			
TR-70-C-126		CR1		•			•					•			
TR-70-D-125		CR1		•			•					•			
TR-70-E-104		CR1		•			•					•			
TR-102-144		CR1		•			•					•			
TR-102-B100FC		CR1		•			•					•			
TR-111-473		CR1		•			•					•			
TR-111-1180		CR1		•			•					•			
TR-111-1470		CR1		•			•					•			
TR-111-1537B		CR1		•			•					•			
TR-111-2235		CR1		•			•					•			
TR-111-2257		CR1		•			•					•			
TR-111-2428		CR1		•			•					•			
TR-111-3308		CR1		•			•					•			
TR-111-4315		CR1		•			•					•			
TR-111-5311		CR1		•			•					•			
TR-111-6410A		CR1		•			•					•			
TR-111-7412		CR1		•			•					•			
TR-111-8409		CR1		•			•					•			
TR-111-9409		CR1		•			•					•			
TR-111-10409		CR1		•			•					•			
TR-111-B0423		CR1		•			•					•			
TR-111-B0610E		CR1		•			•					•			
TR-111-B0622		CR1		•			•					•			
TR-123-A107		CR1		•			•					•			
TR-123-B113		CR1		•			•					•			
TR-123-C113		CR1		•			•					•			
TR-123-D113		CR1		•			•					•			
TR-123-E105E		CR1		•			•					•			
TR-144-146		CR1		•			•					•			
TR-144-175		CR1		•			•					•			
TR-144-G22		CR1		•			•					•			
TR-144-G68TC		CR1		•			•					•			
TR-146-005		CR1		•			•					•			
TR-147-002		CR1		•			•					•			
TR-148-002		CR1		•			•					•			

INDIVIDUAL CAMERA REQUIREMENTS SCHEDULE

CAMERA #	CAMERA TYPE	TELECOM ROOM #	FIELD OF VIEW DESCRIPTION	MOUNTING TYPE
3-1	CM-1	TE-3-1454	RACKS AND DOOR	WALL
4-1	CM-1	TR-4-2110	RACKS AND DOOR	WALL
5-1	CM-1	TE-5-117	RACKS AND DOOR	WALL
5-2	CM-1	TE-5-204	RACKS AND DOOR	WALL
6-1	CM-1	TR-6-A104	RACKS AND DOOR	WALL
6-2	CM-1	TR-6-B103	RACKS AND DOOR	WALL
6-3	CM-1	TR-6-D203	RACKS AND DOOR	WALL
6-4	CM-1	TR-6-C302	RACKS AND DOOR	WALL
6-5	CM-1	TR-6-C013	RACKS AND DOOR	WALL
7-1	CM-1	TR-7-B09	RACKS AND DOOR	WALL
20-1	CM-1	TE-20-1-030	RACKS AND DOOR	WALL
43-1	CM-1	TR-43-A156	RACKS AND DOOR	WALL
43-2	CM-1	TR-43-A201	RACKS AND DOOR	WALL
70-1	CM-1	TR-70-B-159	RACKS AND DOOR	WALL
70-2	CM-1	TR-70-D-125	RACKS AND DOOR	WALL
70-3	CM-1	TR-70-B-159	RACKS AND DOOR	WALL
70-4	CM-1	TR-70-C-126	RACKS AND DOOR	WALL
70-5	CM-1	TR-70-D-125	RACKS AND DOOR	WALL
70-6	CM-1	TR-70-E-104	RACKS AND DOOR	WALL
70-7	CM-1	TR-70-C-126	RACKS AND DOOR	WALL
70-8	CM-1	TR-70-C-126	RACKS AND DOOR	WALL
70-9	CM-1	TR-70-B-159	RACKS AND DOOR	WALL
97-1	CM-1	TE-97-005	RACKS AND DOOR	WALL
102-1	CM-1	TR-102-B100FC	RACKS AND DOOR	WALL
102-2	CM-1	TR-102-144	RACKS AND DOOR	WALL
107-1	CM-1	TE-107-200	RACKS AND DOOR	WALL
108-1	CM-1	TE-108-200	RACKS AND DOOR	WALL
109-1	CM-1	TE-109-B001	RACKS AND DOOR	WALL
111-1	CM-1	TR-111-B0610E	RACKS AND DOOR	WALL
111-2	CM-1	TR-111-B0622	RACKS AND DOOR	WALL
111-3	CM-1	TR-111-B0423	RACKS AND DOOR	WALL
111-4	CM-1	TR-111-1537B	RACKS AND DOOR	WALL
111-4	CM-1	TR-111-1537B	RACKS AND DOOR	WALL
111-5	CM-1	TR-111-2557	RACKS AND DOOR	WALL
111-6	CM-1	TR-111-2428	RACKS AND DOOR	WALL
111-7	CM-1	TR-111-3308	RACKS AND DOOR	WALL
111-8	CM-1	TR-111-4315	RACKS AND DOOR	WALL
111-9	CM-1	TR-111-5311	RACKS AND DOOR	WALL
111-10	CM-1	TR-111-6410B	RACKS AND DOOR	WALL
111-11	CM-1	TR-111-7412	RACKS AND DOOR	WALL
111-12	CM-1	TR-111-8409	RACKS AND DOOR	WALL
111-13	CM-1	TR-111-9409	RACKS AND DOOR	WALL
111-14	CM-1	TR-111-10409	RACKS AND DOOR	WALL
111-15	CM-1	TR-111-1470	RACKS AND DOOR	WALL
111-17	CM-1	TR-111-2335	RACKS AND DOOR	WALL
112-1	CM-1	TE-112-115	RACKS AND DOOR	WALL
113-1	CM-1	TE-3-1454	RACKS AND DOOR	WALL
123-1	CM-1	TR-123-D113	RACKS AND DOOR	WALL
123-2	CM-1	TR-123-C113	RACKS AND DOOR	WALL
123-3	CM-1	TR-123-A107	RACKS AND DOOR	WALL
123-4	CM-1	TR-123-B113	RACKS AND DOOR	WALL
123-5	CM-1	TR-123-E105E	RACKS AND DOOR	WALL
144-1	CM-1	TR-144-G68TC	RACKS AND DOOR	WALL
144-2	CM-1	TR-144-006	RACKS AND DOOR	WALL
144-3	CM-1	TR-144-175	RACKS AND DOOR	WALL
144-4	CM-1	TR-144-146	RACKS AND DOOR	WALL
146-1	CM-1	TR-146-005	RACKS AND DOOR	WALL
147-1	CM-1	TR-147-002	RACKS AND DOOR	WALL
148-1	CM-1	TR-148-002	RACKS AND DOOR	WALL

NOTES:

1. CONTRACTOR SHALL CONFIGURE NEW CAMERAS TO MATCH THE CONFIGURATION OF EXISTING CAMERAS REGARDING FRAME RATE, COMPRESSION AND RECORDED RESOLUTION.
2. ALL CAMERAS SHALL BE POWERED POE/POE+ UNLESS NOTED OTHERWISE.
3. CAMERAS SHALL BE AN EXTENSION OF THE EXISTING MILESTONE SYSTEM.
4. CONTRACTOR SHALL OBTAIN WRITTEN APPROVAL OF CAMERA VIEWS AND FOCUSING FROM COR PRIOR TO SYSTEM ACCEPTANCE.

Revisions:	Date:
35% SCHEMATIC DESIGN SUBMISSION	5.17.21
65% DESIGN DEVELOPMENT SUBMISSION	6.15.21
65% DESIGN DEVELOPMENT RESUBMISSION	8.25.21

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Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: TECHNOLOGY SCHEDULES

Approved:

Phase: FINAL BID DOCUMENTS

Sprinklered: FULLY SPRINKLERED

Project Title: EHRM INFRASTRUCTURE UPGRADES - MILWAUKEE, WI

Location: 5000 W. NATIONAL AVENUE MILWAUKEE, WI

Issue Date: SEPTEMBER 05, 2025

Checked: PHINIE

Drawn: MAIBEJ

Project Number: 695-21-700

Building Number:

Drawing Number: TN601

VA FORM 08 - 6231

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Graphic Scale: 11/16" = 1'-0"
Graphic Scale: 1/8" = 1'-0"
Graphic Scale: 3/32" = 1'-0"
Graphic Scale: 1/4" = 1'-0"
Graphic Scale: 3/8" = 1'-0"
Graphic Scale: 1/2" = 1'-0"
Graphic Scale: 3/4" = 1'-0"
Graphic Scale: 1" = 1'-0"
Graphic Scale: 1 1/2" = 1'-0"