

Duke UNIVERSITY

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COMMUNICATIONS

TYPICAL MDF DESIGN REQUIREMENTS

MEP COORDINATION NOTES:

POWER:

ALL COMMUNICATIONS ROOM RECEPTACLES SHALL BE FED FROM DEDICATED IT PANEL, AND TIED INTO EMERGENCY POWER SYSTEM.

POWER RECEPTACLES (CONVENIENCE):

(1) 20 AMP DUPLEX RECEPTACLE ON NORMAL POWER CENTERED ON EACH WALL, AND
(1) 20 AMP DUPLEX RECEPTACLE PER WALL MOUNTED EQUIPMENT.

POWER RECEPTACLES (RACK MOUNTED):

WHERE EMERGENCY POWER IS AVAILABLE:

(2) DEDICATED, NEMA 5-20R 20A/120V RECEPTACLES AT EACH SIDE OF CENTER RACK WITHIN BACKSIDE OF VERTICAL WIRE MANAGER.

WHERE EMERGENCY POWER IS NOT AVAILABLE:

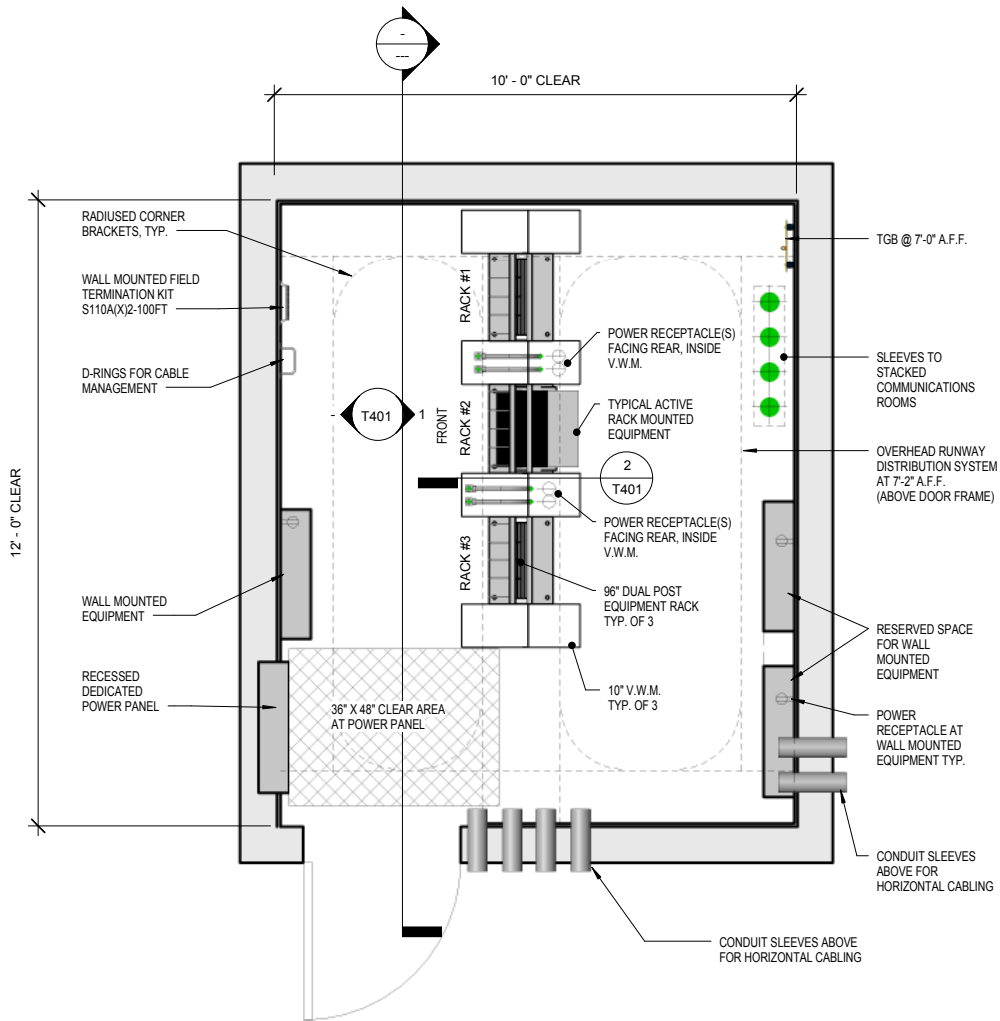
(1) DEDICATED, NEMA 5-20R 20A/120V QUAD RECEPTACLE AT EACH SIDE OF CENTER RACK WITHIN BACKSIDE OF VERTICAL WIRE MANAGER
MOUNT POWER RECEPTACLES AT 6" AFF TO BOTTOM OF JUNCTION BOX.

HVAC:

PROVIDE 10,000 BTU/HR SENSIBLE COOLING PER EQUIPMENT RACK.

LIGHTING:

FIXTURES SHALL BE PLACED RUNNING PARALLEL WITH EQUIPMENT RACKS. PROVIDE MIN. 50 FC AT 3'-0" AFF. PROVIDE MIN. 1 LAMP ON EMERGENCY POWER.



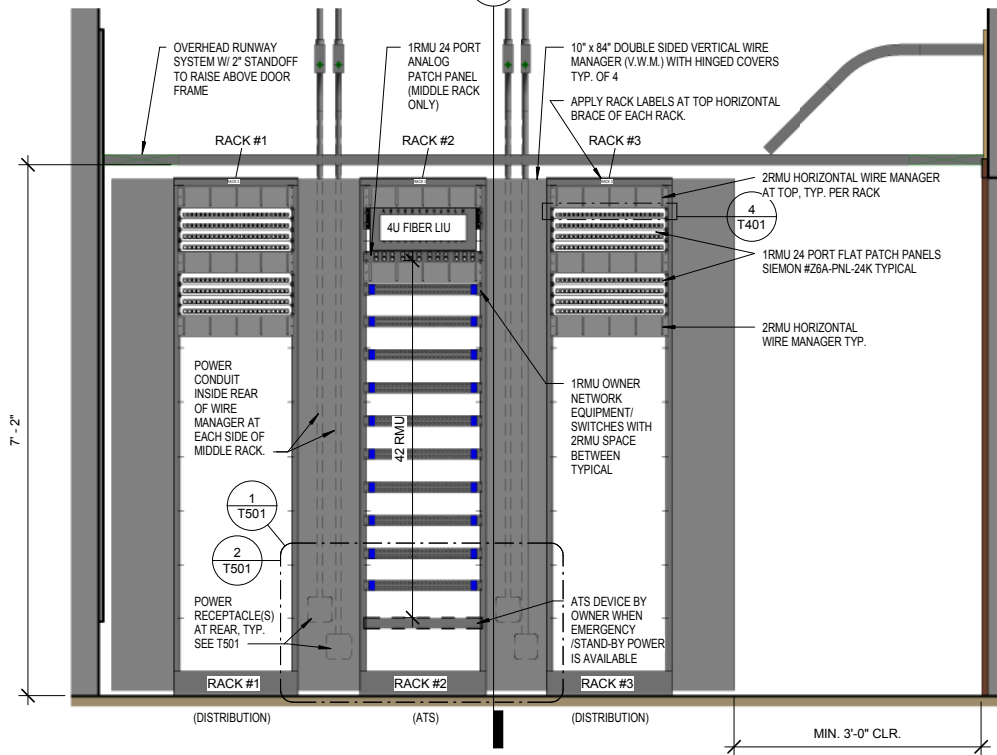
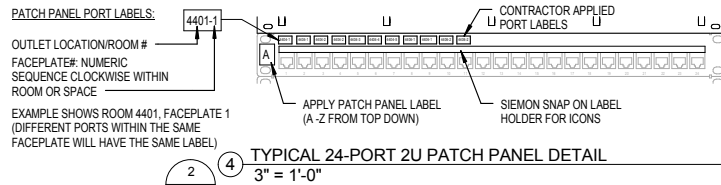
① TYPICAL IC ROOM - EMERG./STANDBY POWER
1/2" = 1'-0"

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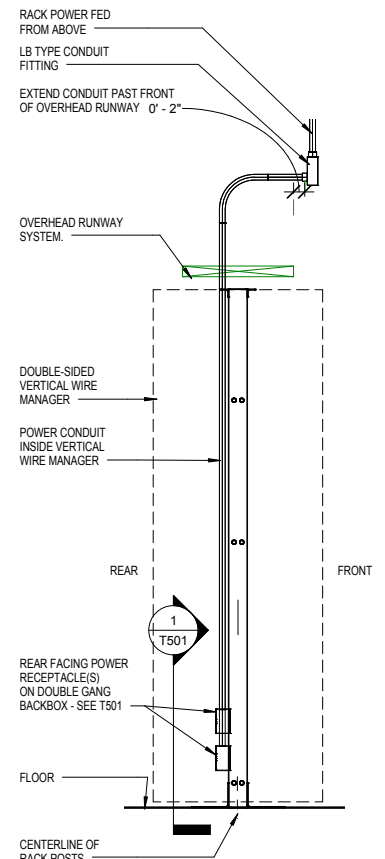
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TR RACK ELEVATION



① RACK ELEVATION - FRONT OF RACKS
3/4" = 1'-0"



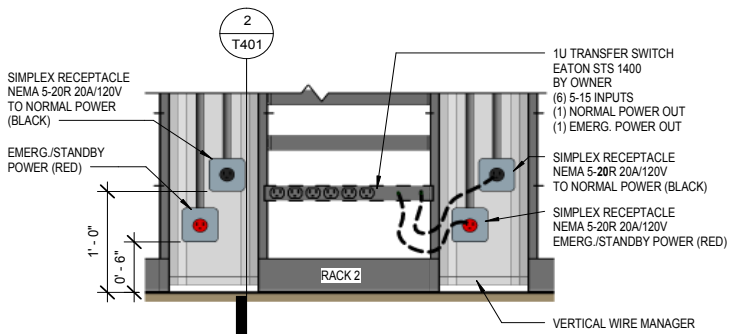
② SECTION THRU WIRE MGR
3/4" = 1'-0"

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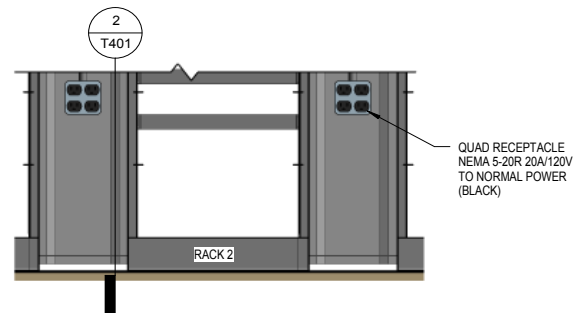
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TR RACK POWER RECEPTACLE OPTIONS



① POWER RECEPTACLES REAR OF RACKS - EMERGENCY POWER AVAILABLE
1" = 1'-0"



② POWER RECEPTACLES REAR OF RACKS - EMERGENCY POWER NOT AVAILABLE
1" = 1'-0"

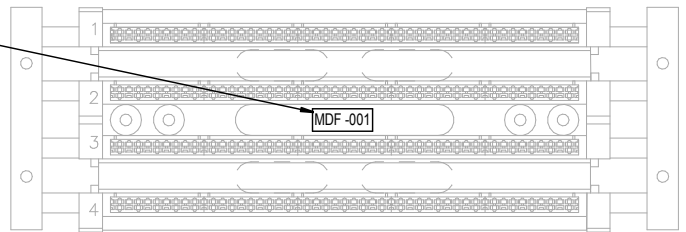
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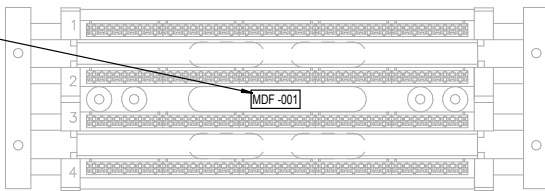
TR VOICE RISER

USE SNAP IN LABELING KIT TO LABEL BLOCK WITH ORIGINATION MDF ROOM#



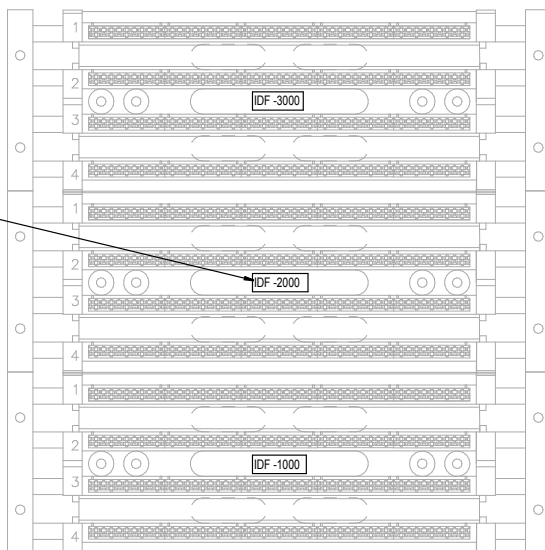
② Siemon S110A(X)2-100FT Labeling at IDF
6" = 1'-0"

USE SNAP IN LABELING KIT TO LABEL BLOCK WITH ORIGINATION MDF ROOM#

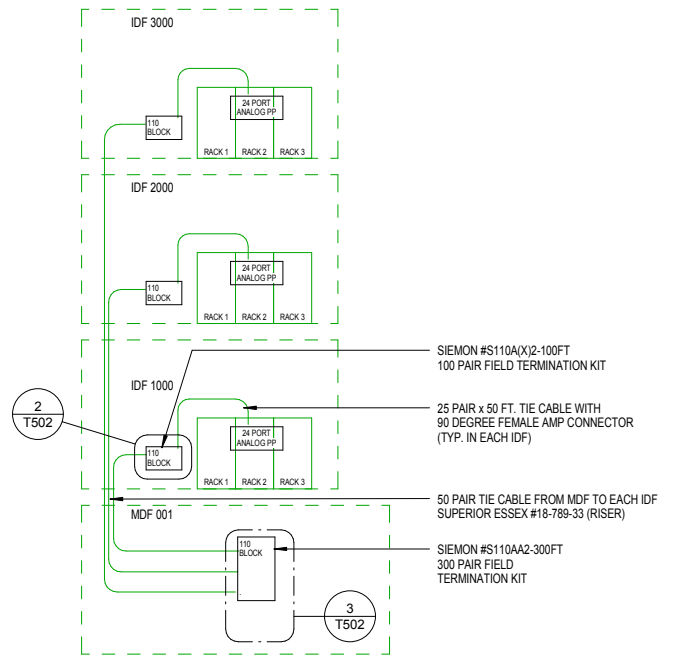


② Siemon S110A(X)2-100FT Labeling at IDF
6" = 1'-0"

USE SNAP IN LABELING KIT TO LABEL BLOCK WITH DESTINATION IDF ROOM#



③ Siemon S110AA2-300FT Labeling at MDF
6" = 1'-0"



① Typical Copper Riser Diagram - Duke University
6" = 1'-0"

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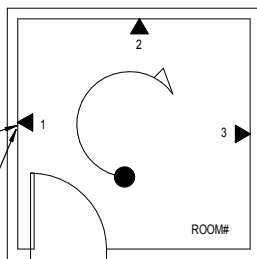
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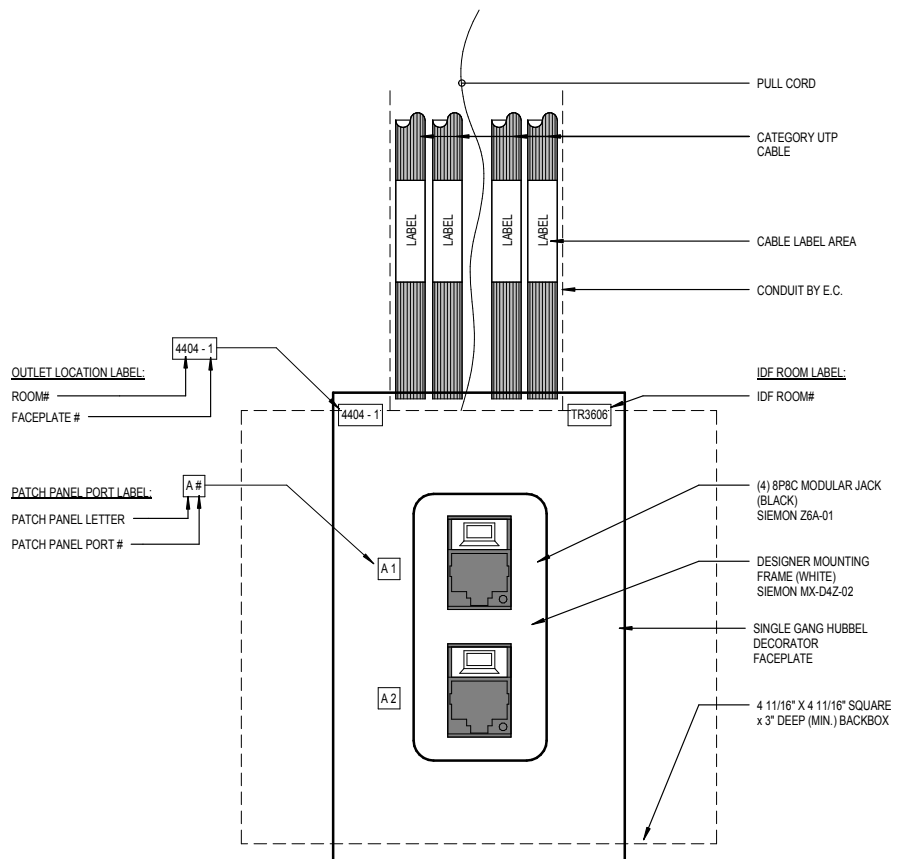
TR OUTLET LABELING

FACEPLATES WITHIN EACH ROOM TO BE LABELED NUMERICALLY STARTING AT POINT "1" AND THEN CLOCKWISE

PORTS WITHIN FACEPLATE TO BE LABELED WITH PATCH PANEL PORT #



① TYPICAL OUTLET LABELING DETAIL
N.T.S.



② TYPICAL FACEPLATE LABELING
12" = 1'-0"