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.

POWER RECEPTACLE AT WALL MOUNTED EQUIPMENT:
RESERVED SPACE FOR WALL MOUNTED EQUIPMENT TYP.

HVAC:
PROVIDE 10,000 BTUHR 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.
TYPICAL COMMUNICATIONS ROOM REQUIREMENTS

RACK #1

1RMU 24 PORT ANALOG Patch Panel (Middle Rack Only)

10" x 84" Double Sided Vertical Wire Manager (V.W.M.) with Hinged Covers

Apply Rack Labels at Top Horizontal Brace of Each Rack.

POWER CONDUIT inside rear of Wire Manager at each side of Middle Rack.

1RMU OWNER NETWORK EQUIPMENT/ SWITCHES WITH 2RMU SPACE BETWEEN TYPICAL

1RMU 24 PORT Flat Patch Panels SIEMON #Z6A-PNL-24K TYPICAL

OVERHEAD RUNWAY SYSTEM w/ 2" standoff to raise above door frame

MIN. 3'-0" CLR.

OVERHEAD RUNWAY SYSTEM.

REAR FACING POWER RECEPTACLE(S) ON DOUBLE GANG BACKBOX - SEE 1501

POWER CONDUIT inside vertical Wire Manager

APPLICATIONS:

- OUTLET LOCATION/ROOM #
- FACEPLATE#: NUMERIC SEQUENCE CLOCKWISE WITHIN ROOM OR SPACE
- EXAMPLE SHOWS ROOM 4401, FACEPLATE 1 (DIFFERENT PORTS WITHIN THE SAME FACEPLATE WILL HAVE THE SAME LABEL).

WORKSHEET:

- RACK LABELS AT TOP HORIZONTAL BRACE OF EACH RACK.
- CONTRACTOR APPLIED PORT LABELS
- SIEMON SNAP ON LABEL HOLDER FOR ICONS
- CONDUCT PAST FRONT OF OVERHEAD RUNWAY 0'-2"

4404-1
4404-2
4404-3
4404-4
4404-5
2 3 4 5 6 7 8 9
1 10 11 12 14 15 16 17 18 19 20 21 13 22 23 24

TYPICAL 24-PORT 2U PATCH PANEL DETAIL

3" = 1'-0"

RBK RACK & ALIGN Consulting Engineers, LLC
10 Guest St., 4th Floor
Boston, MA 02135
877.817.5978
www.brkike.com
T401 RACK 2

1U TRANSFER SWITCH
EATON STS 1400
BY OWNER
(6) 5-15 INPUTS
(1) NORMAL POWER OUT
(1) EMERG. POWER OUT

SIMPLEX RECEPTACLE
NEMA 5-20R 20A/120V
TO NORMAL POWER
(BLACK)

EMERG./STANDBY
POWER (RED)

SIMPLEX RECEPTACLE
NEMA 5-20R 20A/120V
EMERG./STANDBY
POWER (RED)

VERTICAL WIRE MANAGER

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

POWER RECEPTACLES REAR OF RACKS - EMERGENCY POWER NOT AVAILABLE
1" = 1'-0"
USE SNAP IN LABELING KIT TO LABEL BLOCK WITH ORIGIN 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"

24 PORT ANALOG PP

25 PAIR x 50 FT. TIE CABLE WITH 90 DEGREE FEMALE AMP CONNECTOR (TYP. IN EACH IDF)
SIEMON #S110AA2-300FT

300 PAIR FIELD TERMINATION KIT

50 PAIR TIE CABLE FROM MDF TO EACH IDF
SUPERIOR ESSEX #18-789-33 (RISER)
SIEMON #S110A(X)2-100FT

100 PAIR FIELD TERMINATION KIT

TYPICAL VOICE RISER

PROJECT: DUKE UNIVERSITY OIT COMMUNICATIONS ROOM REQUIREMENTS

CHECKED: SCALE:

DRAWN: DATE:

JOB NO.: SKETCH: REV. DWG:

6" = 1'-0"
ROOM #

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

PORTS WITHIN FACEPLATE TO BE LABELED WITH PATCH PANEL PORT #

4404 - 1

4 11/16" X 4 11/16" SQUARE X 3" DEEP (MIN.) BACKBOX

PULL CORD

CATEGORY UTP CABLE

CONDUIT BY E.C.

CABLE LABEL AREA

OUTLET LOCATION LABEL:
ROOM #
FACEPLATE #

PATCH PANEL PORT LABEL:
PATCH PANEL LETTER
PATCH PANEL PORT #

IDF ROOM LABEL:
IDF ROOM #

(4) 8P8C MODULAR JACK (BLACK) SIEMON ZIA-01

DESIGNER MOUNTING FRAME (WHITE) SIEMON MX-D4Z-02

SINGLE GANG HUBBEL DECORATOR FACEPLATE

TYPICAL OUTLET LABELING DETAIL
N.T.S.

TYPICAL FACEPLATE LABELING
12" = 1'-0"

As indicated

11/6/2017