

three inches = one foot
one and one-half inches = one foot
one inch = one foot
three-quarters inch = one foot
one-half inch = one foot
three-eighths inch = one foot
one-quarter inch = one foot
one-eighth inch = one foot

GENERAL SHEET NOTES:

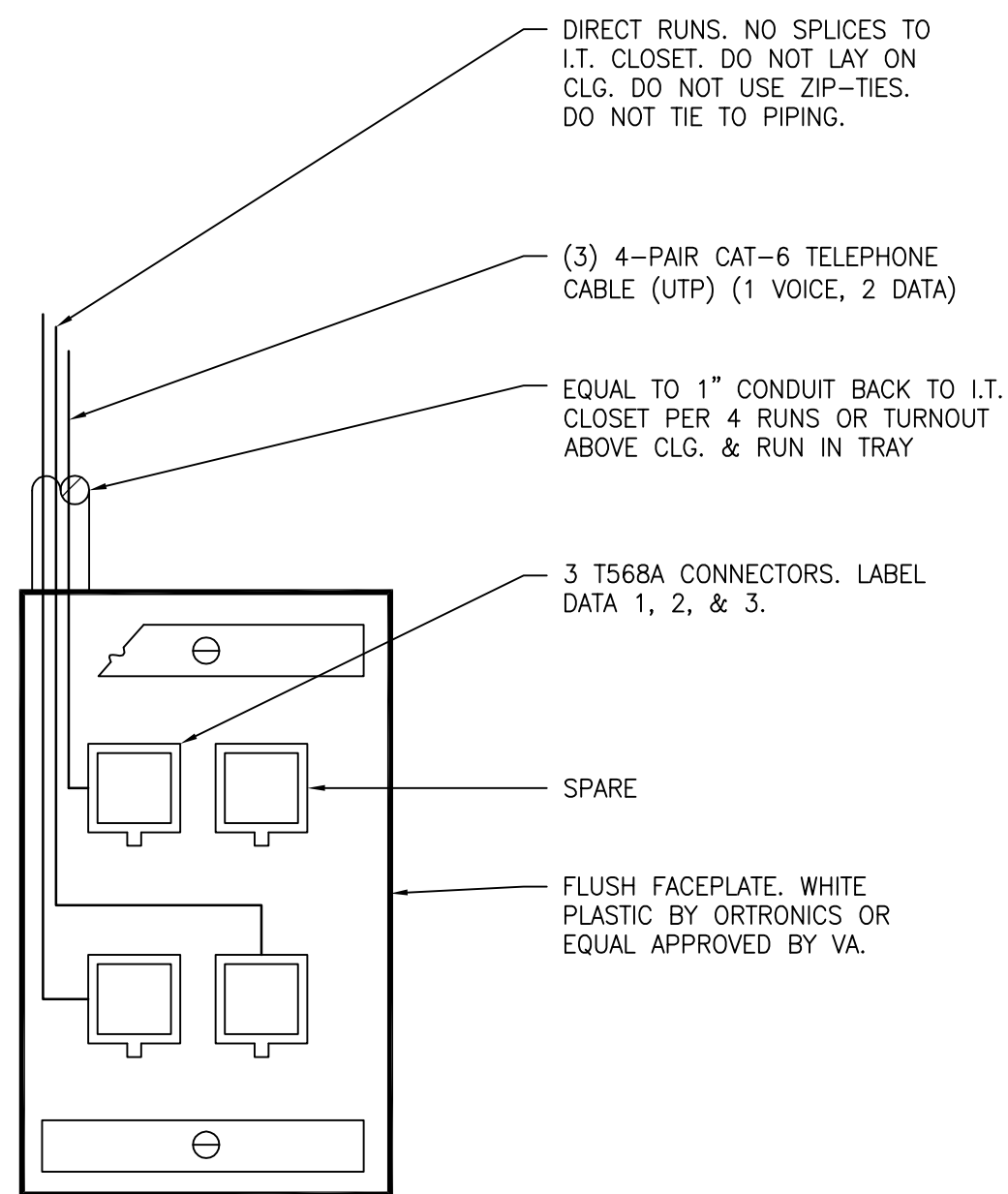
1. SEE DRAWINGS E0.01 AND E0.02 FOR GENERAL NOTES, SYMBOLS AND ABBREVIATIONS.

SHEET KEYNOTES:

1. E.C. TO PROVIDE OPEN FRAME RACK CABINET TO MATCH EXISTING IT RACKS IN OTHER INSTALLATIONS ON THE VA CAMPUS.
E.C. TO PROVIDE AND INSTALL ALL THE COMPONENTS FOR THE NEW IT RACKS SUCH AS: CABLE MANAGEMENT SUPPORT BARS FOR PATCH PANEL, CAT 6 ENCLOSURES ACCESSORIES, ADAPTER PANELS, 48-PORT PATCH PANELS AND ANY OTHER EQUIPMENT/ACCESSORY REQUIRED. E.C. SHALL MATCH TYPE OF EQUIPMENT CURRENTLY INSTALLED IN OTHER TELE/DATA ROOMS ON VA CAMPUS.
- PATCH PANEL REQUIREMENTS:
- NEW "CENTRAL" IT RACK - (8) 48-PORT PATCH PANELS
- NEW SERVER RACKS - (1) 48-PORT PATCH PANEL
- IT CLOSET 20243 - (5) 48-PORT PATCH PANELS
- IT CLOSET 20123 - (8) 48-PORT PATCH PANELS
- IT CLOSET 19012 - (2) 48-PORT PATCH PANELS
- PRIOR TO ANY INSTALLATION, E.C. TO COORDINATE ALL THE COMPONENTS FOR THE NEW IT RACKS WITH VA IT FACILITY DEPARTMENT.
2. E.C. TO PROVIDE AND INSTALL TWO POWER STRIPS ON EACH SIDE OF THE NEW RACKS. EACH POWER STRIP WILL HAVE A TOTAL OF (10) 5-15 STANDARD RECEPTACLES CONNECTED TO A ROOM-DEDICATED L5-30P PLUG MOUNTED ON THE WALL.
REFER TO DRAWINGS EP1.01 AND EP1.02 FOR POWER CONNECTIONS.
3. E.C. TO PROVIDE AND INSTALL A METALLIC LADDER TYPE CABLE TRAY 4"H. REFER TO DRAWINGS ET1.01 AND ET2.01 FOR EXACT LOCATION AND TRAY WIDTH.
CABLE TRAY SUPPORTS SHALL COMPLY WITH NEC-392, NEMA V1 AND NEMA FC1 STANDARDS.
E.C. TO COORDINATE ELEVATION OF CABLE TRAY WITH NEW CEILING LAYOUT.
4. E.C. TO PROVIDE AND INSTALL CONNECTIONS BETWEEN NEW RACKS AND EXISTING CAMPUS NETWORK.
- CONNECTIONS SHALL BE DONE IN SINGLE MODE OPTICAL FIBER, 12-STRAND TERMINATED, SC ENDS AND CERTIFIED.
- THE SINGLE MODE SHALL TERMINATE IN A NEW HOUSING IN (E) RACK IN BUILDING 4 AND NEW RACK IN IT CLOSET 20237.

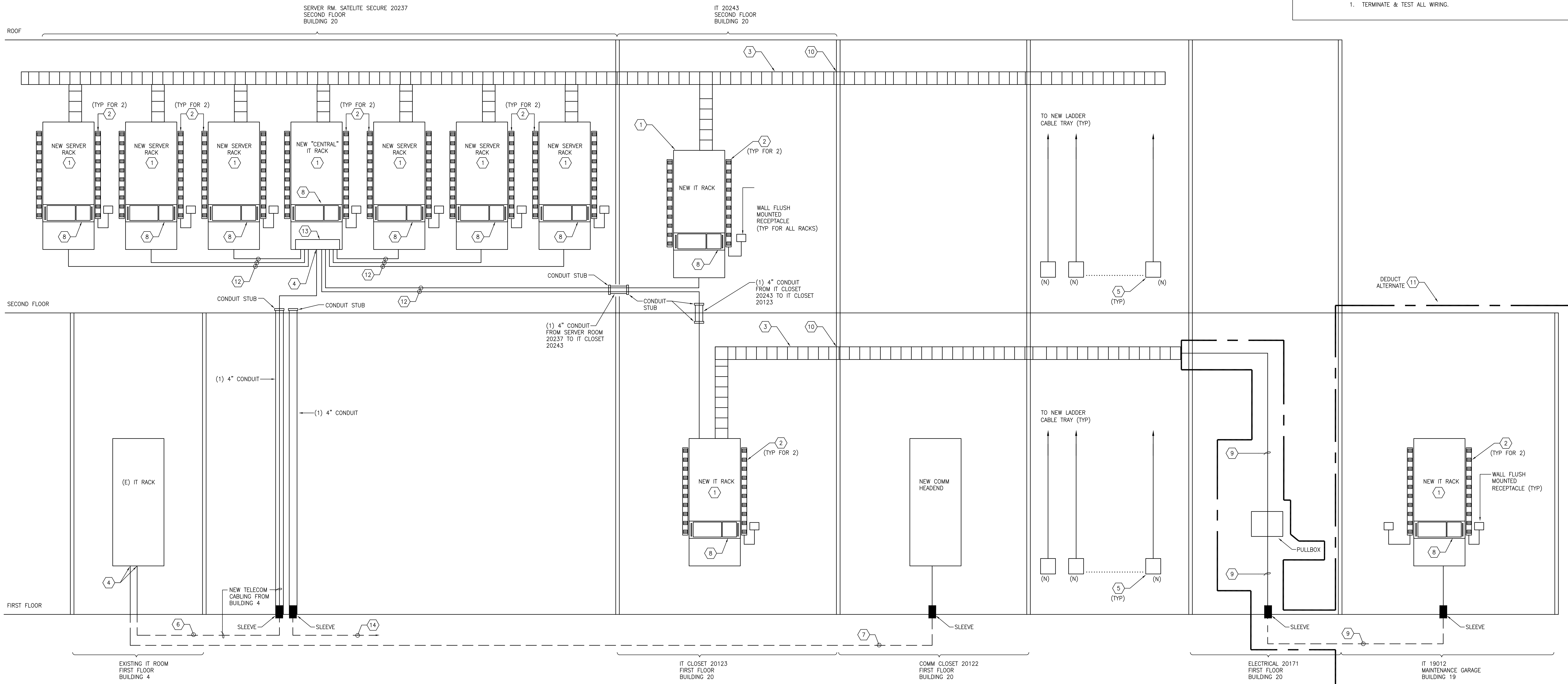
5. ALL NEW DATA JACKS SHALL BE CATEGORY 6-COMPLIANT EIGHT POSITION RJ-45 NON-KEYED (EIA/TIA 568A).
- ALL NEW OUTLETS SHALL BE QUADPLEX JACKS WITH QUADPLEX FLUSH MOUNTED FACEPLATE. THREE JACKS ARE DESIGNED FOR DATA AND THE FOURTH JACK SHALL BE SPARE. SEE DETAIL 2 THIS SHEET FOR FURTHER INFORMATION ON BACKBOX, JACK AND CONDUIT REQUIREMENTS
- CATEGORY 6 WIRING SHALL BE INSTALLED FROM EACH JACK TO NEW IT RACK AND SHALL BE OF A TYPE DESIGNED TO SUPPORT LEVEL FIVE DATA COMMUNICATION (NOT LESS THAN 100MHz/Mbps). EACH JACK SHALL HOMERUN TO A DIFFERENT JACK PANEL IN NEW IT RACK.
- EACH UNSHIELD PAIR WIRING SHALL BE ROUTED THROUGH THE NEW CORRIDOR LADDER CABLE TRAY.
6. UNDERGROUND INTERCONNECTION LINE FROM BUILDING 4 TO BUILDING 20. SEE DRAWING ESO.02 FOR FURTHER INFORMATION ON LOCATION AND SIZES OF CONDUIT.
- PROVIDE (1) ONE RUN OF 48-STRAND SINGLE MODE FIBER OPTIC CABLE, (1) ONE RUN OF WATER BLOCKING TRACING WIRE, AND (1) ONE RUN OF 12-STRAND SINGLE MODE FIBER OPTIC CABLE. RUN FIBER IN EXTERIOR RATED INNERDUCT IN ONE OF THE 4" PVC CONDUITS FROM BUILDING 4.
7. PROVIDE (1) RUN OF 12-STRAND SINGLE MODE FIBER OPTIC CABLES TO THE COMM CLOSET HEADEND EQUIPMENT. RUN FIBER IN EXTERIOR RATED INNERDUCT IN ONE OF THE 4" PVC CONDUITS FROM BUILDING 4.

8. E.C. TO PROVIDE AND INSTALL SMART-UPS 3000 RACKMOUNT BLACK AS FOLLOW:
• OUTPUT POWER CAPACITY: 3000 VA, NOMINAL OUTPUT VOLTAGE : 120V, OUTPUT CONNECTIONS: (8) NEMA 5-15R
• NOMINAL INPUT VOLTAGE: 120V, INPUT CONNECTION TYPE: NEMA L5-30P, CORD LENGTH : 8 FT
• BATTERY TYPE: MAINTENANCE-FREE SEALED LEAD-ACID BATTERY WITH SUSPENDED ELECTROLYTE, LEAKPROOF.
• TYPICAL BACKUP TIME AT FULL LOAD: 5.7 MINUTES, TYPICAL BACKUP TIME AT HALF LOAD: 16.8 MINUTES.
• INTERFACE PORT AND CONTROL PANEL WITH LED STATUS DISPLAY WITH LOAD AND BATTERY BAR-GRAPHS.
• AUDIBLE ALARM WHEN ON BATTERY
• EMERGENCY POWER OFF
• SURGE ENERGY RATING: 880 JULES
• DIMENSIONS: RACK HEIGHT 3U.
9. PROVIDE (1) RUN OF 12-STRAND SINGLE MODE FIBER OPTIC CABLES AND (1) 25 PAIR OF HARD COPPER TELEPHONE WIRING FROM NEW IT RACK IN BUILDING 20 TO NEW IT RACK IN BUILDING 19. SEE DRAWING ESO.01 AND ET1.01 FOR CONDUIT SIZE AND ROUTING.
10. FIRE PILLOW BLOCKS AT CMU WALL WHERE CABLE TRAY ENTERS IT ROOM.
11. THE WORK IN BUILDING 19 IS A DEDUCT ALTERNATE TO THE PROJECT AND SHOULD BE BID AS SUCH.
12. NEW FIBER CONNECTION. PROVIDE (1) RUN OF 12-STRAND SINGLE MODE FIBER AND (1) RUN OF 12-STRAND MULTIMODE FIBER.
13. FIBER TERMINATION SWITCH (PROVIDED AND INSTALLED BY VA).
14. 4" CONDUIT FROM (E) UTILITY POLE TO SERVER ROOM 20237. SEE DRAWINGS ESO.01, ET1.01, AND ET2.01 FOR ROUTING INFORMATION.



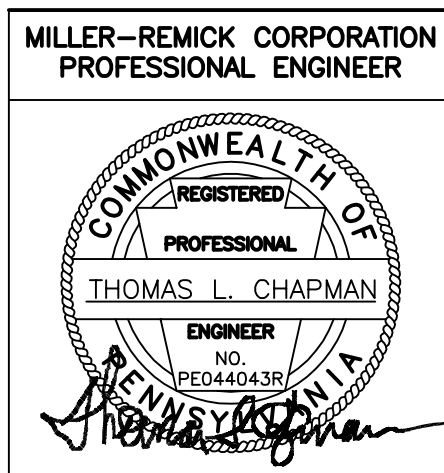
2 TELEPHONE/DATA OUTLET DETAIL
SCALE: NONE

- NOTES:
1. TERMINATE & TEST ALL WIRING.



FINAL CD ISSUE
FULLY SPRINKLERED

REVISION 2	02/26/15
REVISION 1	11/26/14
Revisions	Date



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Drawing Title	TELECOMMUNICATION WIRING SCHEMATIC DIAGRAM
Building No.	20
Location	Huntington, WV

Project Title	Renovations to the Former BRAC Property
Project Architect:	PF&A
Checked by:	MC
Drawn by:	MR
Architects Proj. No.	2099.11

Date	09.03.2013
Project No.	581-12-101
E5.02	
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