

1. RISER DIAGRAMS ARE DIAGRAMMATIC IN NATURE. UNLESS INDICATED OTHERWISE, THE SECURITY CONTRACTOR SHALL PROVIDE ALL HARDWARE, ENCLOSURES, DEVICES, LOW VOLTAGE WIRING, COMMUNICATION CABLE, TERMINATIONS, CONNECTIONS, POWER SUPPLIES, SOFTWARE, LICENSES, CONFIGURATION, PROGRAMMING, TESTING AND COMMISSIONING REQUIRED FOR A FULLY OPERATIONAL ACCESS CONTROL AND INTERCOMMUNICATIONS SYSTEM.
2. THE ACCESS CONTROL AND ALARM MONITORING, SHALL RESIDE ON THE CONVERGED NETWORK PROVIDED BY THE COMMUNICATIONS CONTRACTOR.
3. THE PROVISION AND INSTALLATION OF ALL NEW E.M.T CONDUIT C/W PULLSTRING, BOX BOXES, JUNCTION BOXES AND 120VAC POWER SHALL BE BY THE ELECTRICAL CONTRACTOR. THE SECURITY CONTRACTOR SHALL REFER TO THE COMMUNICATIONS DRAWINGS FOR RACK RACK PLACEMENT AND DETAILS. THE SECURITY CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE WITH THE COMMUNICATIONS AND ELECTRICAL CONTRACTORS TO ENSURE THAT ALL INFRASTRUCTURE AND REQUIREMENTS FOR A FULLY OPERATIONAL ACCESS CONTROL AND INTERCOMMUNICATION SYSTEMS ARE PROVIDED.
4. ALL SECURITY DEVICE WIRING SHALL BE IN E.M.T CONDUIT UNLESS OTHERWISE NOTED. ALL CABLE RUNS SHALL BE PROVIDED WITH AN ADDITIONAL 12" (FEET) OF SLACK AT EACH END.
5. CONDUITS CAN BE ZONED TO MINIMIZE THE NUMBER OF HOME RUNS.
6. MINIMUM CONDUIT SIZE SHALL BE 21mm (3/4") UNLESS OTHERWISE NOTED.
7. IT IS THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR TO ENSURE THAT ALL NECESSARY CONDUIT REQUIREMENTS HAVE BEEN PROVIDED SO AS TO NOT DEGRADE OR COMPROMISE THE INTEGRITY AND FUNCTIONALITY OF THE NEW SECURITY SYSTEM AS SPECIFIED.
8. TYPE AND QUANTITY AS WELL AS SIZE AND QUANTITY OF CONDUIT SHALL BE TO THE SPECIFIC MANUFACTURER'S REQUIREMENTS.
9. CABLE INSTALLATIONS AND RUNS MUST BE WITHOUT SPLICES.
10. COMMUNICATION CABLES SHALL BE CAT 6. ALL COMMUNICATION CABLEING BETWEEN THE DGP, SERVERS, WORKSTATIONS AND THE CONVERGED IT NETWORK AS WELL AS PATCH CABLES SHALL BE SUPPLIED, INSTALLED, TERMINATED AND CONNECTED TO THE NETWORK BY THE COMMUNICATIONS CONTRACTOR.
11. ALL PATCH CABLES SHALL BE CAT 6 CABLES FROM THE SAME MANUFACTURER, MAKE AND MODEL. ALL CAT 6 CABLES MUST BE CERTIFIED BY THE MANUFACTURER.
12. CONFIRM EXACT LOCATION AND MOUNTING HEIGHT OF ALL BACK BOXES WITH THE ARCHITECT PRIOR TO INSTALLATION.
13. ELECTRICAL CONTRACTOR SHALL ENSURE ALL CONDUITS ARE CLEARLY MARKED AT BOTH ENDS AND PROVIDED COMPLETE WITH PULLSTRING.
14. ALL WALL MOUNTED SECURITY EQUIPMENT, CABINETRY AND ENCLOSURES, INCLUDING POWER SUPPLIES, SHALL BE WALL MOUNTED ON FIRE RETARDANT PLYWOOD BACKBOARDS. FIRE RATED PLYWOOD BACKBOARDS SHALL BE PROVIDED BY THE ELECTRICAL CONTRACTOR.
15. THE SECURITY CONTRACTOR IS RESPONSIBLE TO ORGANIZE AND NEATLY MANAGE ALL CABLEING WITHIN ALL CABINETS AND ENCLOSURES.
16. THE ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR PROVIDING 120V, 15A, CIRCUIT BREAKER PROTECTED DIRECT CONNECTIONS FOR NEW SECURITY DGPS, MONITORING/CONTROL EQUIPMENT AND POWER SUPPLIES FROM THE NEAREST EMERGENCY POWER PANEL.
17. ON ALL CONDUIT RUNS OF 30m OR MORE, INSTALL PULLBOXES WHERE REQUIRED TO SUIT SITE CONDITIONS.
18. ALL SECURITY SYSTEM LOADS SHALL BE FED FROM UPS AND EMERGENCY POWER. THE SECURITY CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE BATTERY BACKUP WITH ADEQUATE CAPACITY TO POWER THE ACCESS CONTROL AND ALARM

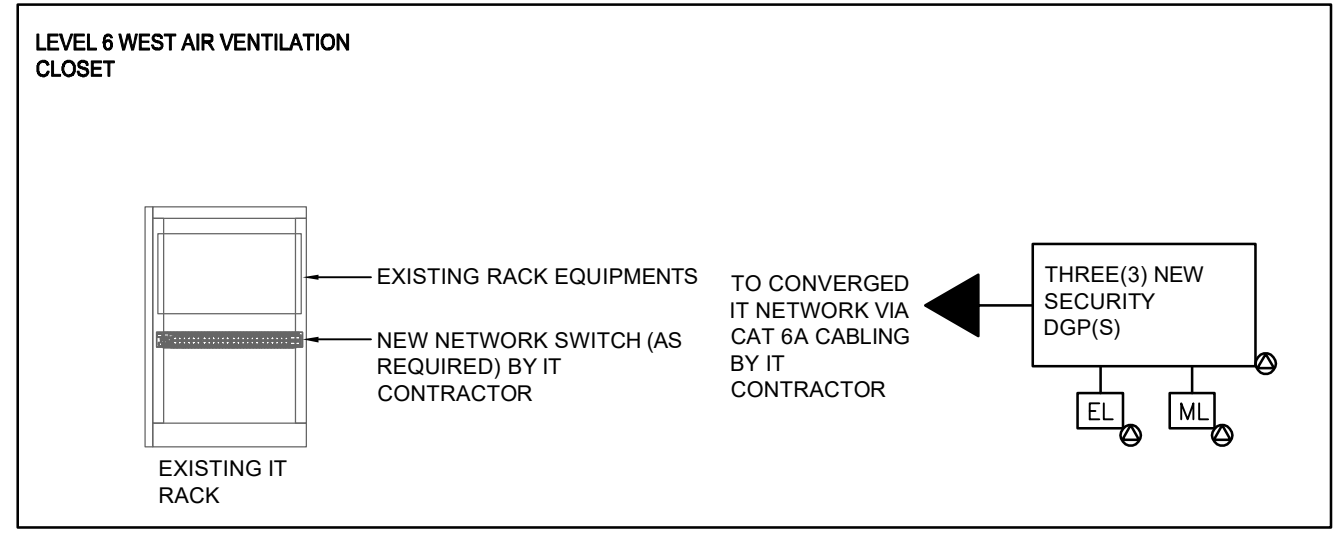
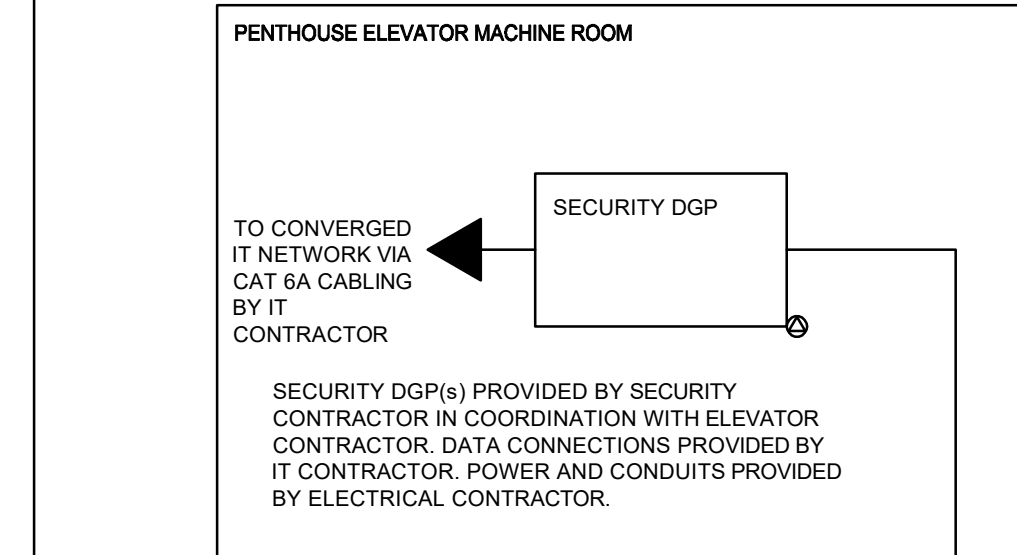
MONITORING SYSTEM FOR A MINIMUM OF EIGHT (8) HOURS
19. ALL VISIBLE FINISHES INCLUDING TRIMS, MOUNTS AND BRACKETS, SHALL BE VERIFIED BY THE ARCHITECT PRIOR TO INSTALLATION.
20. THE SECURITY CONTRACTOR SHALL ENSURE ALL SECURITY DEVICES ARE INTEGRATED WITH ALL AUTOMATED DOOR OPERATORS, DOOR HELD OPEN DEVICES AND FIRE ALARM CALL STATIONS AS SPECIFIED AND REQUIRED BY ALL CODES AND AUTHORITIES HAVING JURISDICTION.

PENTHOUSE LEVEL

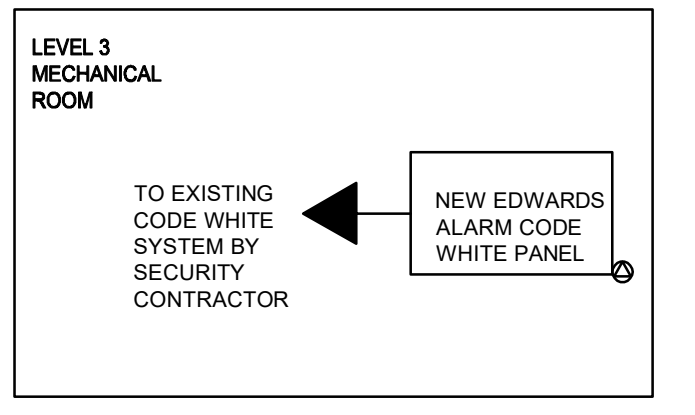
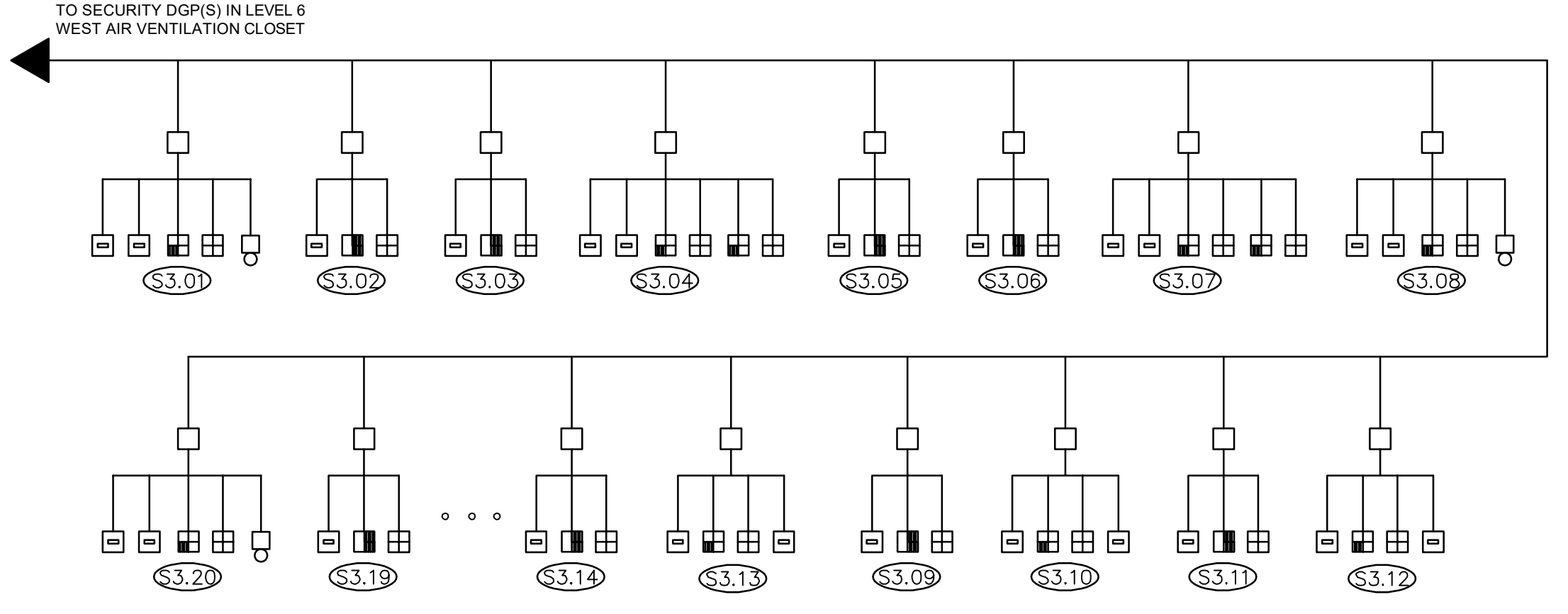
LEVEL 6

LEVEL 3

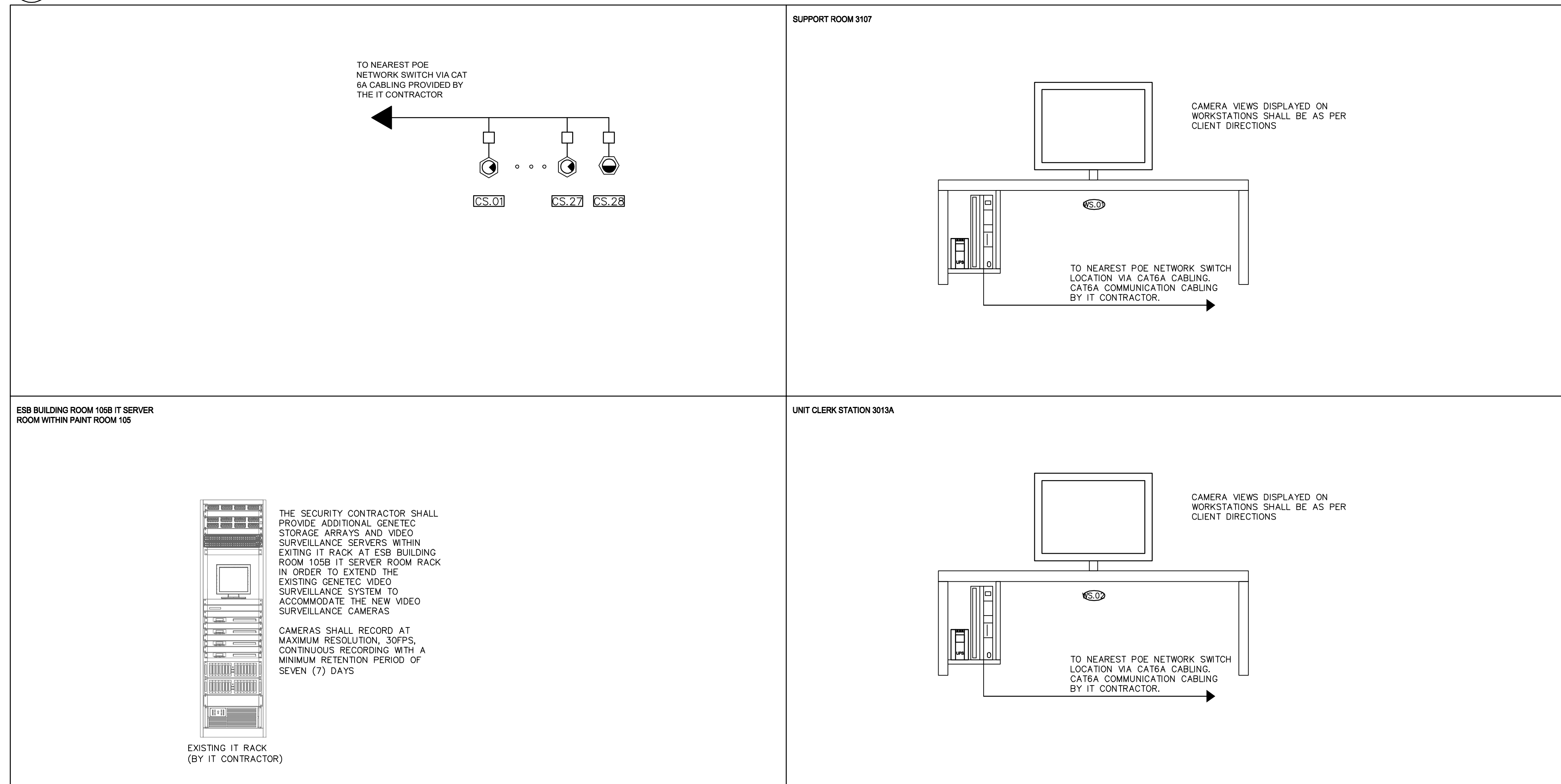
LEVEL 1



ELEVATOR TRAVELLER CABLE PROVIDED BY ELEVATOR CONTRACTOR
ELEVATOR CARD READER PROVIDED BY SECURITY CONTRACTOR AND INSTALLED BY ELEVATOR CONTRACTOR.



4 ACCESS CONTROL SYSTEM RISER BLOCK DIAGRAM
SCALE: 1:50



3 VIDEO SURVEILLANCE SYSTEM RISER BLOCK DIAGRAM
SCALE: 1:50

2 ACCESS CONTROL SYSTEM RISER NOTES
SCALE: N.T.S.

1. RISER DIAGRAMS ARE DIAGRAMMATIC IN NATURE. UNLESS INDICATED OTHERWISE, THE SECURITY CONTRACTOR SHALL PROVIDE ALL HARDWARE, ENCLOSURES, DEVICES, LOW VOLTAGE WIRING, COMMUNICATION CABLE, TERMINATIONS, CONNECTIONS, POWER SUPPLIES, SOFTWARE, LICENSES, CONFIGURATION, PROGRAMMING, TESTING AND COMMISSIONING REQUIRED FOR A FULLY OPERATIONAL VIDEO SURVEILLANCE SYSTEM.
2. THE PROVISION AND INSTALLATION OF ALL NEW E.M.T CONDUIT C/W PULLSTRING, BACK BOXES, JUNCTION BOXES AND 120VAC POWER SHALL BE BY THE ELECTRICAL CONTRACTOR. THE SECURITY CONTRACTOR SHALL REFER TO THE COMMUNICATIONS DRAWINGS FOR LAN ROOM RACK PLACEMENT AND DETAILS. THE SECURITY CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE WITH THE COMMUNICATIONS AND ELECTRICAL CONTRACTORS TO ENSURE THAT ALL INFRASTRUCTURE AND REQUIREMENTS FOR A FULLY OPERATIONAL VIDEO SURVEILLANCE SYSTEM ARE PROVIDED.
3. COMMUNICATION CABLEING SHALL BE CAT 6. ALL COMMUNICATION CABLEING BETWEEN THE SECURITY CAMERAS, SERVERS, STORAGE ARRAYS, WORKSTATIONS AND THE CONVERGED IT NETWORK AS WELL AS PATCH CABLEING SHALL BE SUPPLIED, INSTALLED, TERMINATED AND CONNECTED TO THE NETWORK BY THE COMMUNICATIONS CONTRACTOR. THE COMMUNICATIONS CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE PATCH PANELS.
4. ROUTING FOR VIDEO SURVEILLANCE CAMERAS SHALL BE PROVIDED BY THE ELECTRICAL CONTRACTOR.
5. VIDEO SURVEILLANCE CAMERA DEVICES AND ALL ASSOCIATED SOFTWARE LICENSES SHALL BE PROVIDED BY SECURITY CONTRACTOR.
6. SECURITY CONTRACTOR SHALL BE RESPONSIBLE TO INSTALL, CONNECT, PROGRAM, CONFIGURE AND TEST THE VIDEO SURVEILLANCE CAMERAS AND DELIVER A FULLY FUNCTIONAL SYSTEM INCLUDE FOR ALL REQUIRED MOUNTING ACCESSORIES AND HARDWARE.
7. ALL VIDEO SURVEILLANCE DEVICE WIRING SHALL BE RUN WITHIN MINIMUM 21MM E.M.T CONDUIT WITHIN SECURE SPACE. ANY AND ALL CABLEING NOT WITHIN SECURE SPACE SHALL BE ENCLOSED IN E.M.T CONDUIT UNLESS OTHERWISE NOTED. ALL CABLE RUNS SHALL BE PROVIDED WITH AN ADDITIONAL 12" (FEET) OF SLACK AT EACH END.
8. CONDUITS CAN BE ZONED TO MINIMIZE THE NUMBER OF HOME RUNS.
9. MINIMUM CONDUIT SIZE SHALL BE 21mm (3/4") UNLESS OTHERWISE NOTED.
10. IT IS THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR TO ENSURE THAT ALL NECESSARY 120V POWER, CONDUIT, BACK BOX AND JUNCTION BOX REQUIREMENTS HAVE BEEN PROVIDED SO AS TO NOT DEGRADE OR COMPROMISE THE INTEGRITY AND FUNCTIONALITY OF THE NEW SECURITY SYSTEM AS SPECIFIED.
11. IT IS THE RESPONSIBILITY OF THE COMMUNICATIONS CONTRACTOR TO ENSURE THAT ALL NECESSARY CABLEING REQUIREMENTS HAVE BEEN PROVIDED SO AS TO NOT DEGRADE OR COMPROMISE THE INTEGRITY AND FUNCTIONALITY OF THE NEW SECURITY SYSTEM AS SPECIFIED.
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15. CONFIRM EXACT LOCATION AND MOUNTING HEIGHT OF ALL BACK BOXES WITH THE ARCHITECT PRIOR TO INSTALLATION.
16. ELECTRICAL CONTRACTOR SHALL ENSURE ALL CONDUITS ARE CLEARLY MARKED AT BOTH ENDS AND PROVIDED COMPLETE WITH PULLSTRING.
17. ALL WALL MOUNTED SECURITY EQUIPMENT, CABINETRY AND ENCLOSURES, INCLUDING POWER SUPPLIES, SHALL BE WALL MOUNTED ON FIRE RETARDANT PLYWOOD BACKBOARDS. FIRE RATED PLYWOOD BACKBOARDS SHALL BE PROVIDED BY THE ELECTRICAL CONTRACTOR.
18. THE SECURITY CONTRACTOR IS RESPONSIBLE TO ORGANIZE AND NEATLY MANAGE ALL CABLEING WITHIN ALL CABINETS AND ENCLOSURES.
19. ON ALL CONDUIT RUNS OF 30m OR MORE, INSTALL PULLBOXES WHERE REQUIRED TO SUIT SITE CONDITIONS.
20. ALL VIDEO SURVEILLANCE LOADS INCLUDING VIDEO SURVEILLANCE CAMERAS AND POE NETWORK SWITCHES SHALL BE FED FROM UPS. THE SECURITY CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE RACK MOUNTED UPS WITH ADEQUATE BATTERY CAPACITY TO POWER THE VIDEO SURVEILLANCE FOR A MINIMUM OF ONE (1) HOUR. THE SECURITY CONTRACTOR SHALL COORDINATE WITH THE COMMUNICATIONS CONTRACTOR REGARDING TO THE MOUNTING OF THE UPS WITHIN THE IT RACKS.
21. ALL VISIBLE FINISHES INCLUDING TRIMS, MOUNTS AND BRACKETS, SHALL BE VERIFIED BY THE ARCHITECT PRIOR TO INSTALLATION.
22. THE COMMUNICATIONS CONTRACTOR SHALL VERIFY THAT ALL CABLE RUNS FROM IP DEVICES TO THE RESPECTIVE NETWORK SWITCH LOCATIONS ADHERE TO THE COMMUNICATION CABLE DISTANCE LIMITATIONS. FOR THOSE RUNS THAT EXCEED THE DISTANCE LIMITATION, THE COMMUNICATIONS CONTRACTOR SHALL PROVIDE IP POE EXTENDERS TOGETHER WITH ALL REQUIRED TERMINATIONS, CONNECTIONS, CABLEING AND HARDWARE. ALL POE EXTENDERS SHALL BE LOCATED WITHIN THE BUILDING, IN LOCKABLE ENCLOSURES THAT ARE ACCESSIBLE.

1 VIDEO SURVEILLANCE SYSTEM RISER NOTES
SCALE: N.T.S.