



Existing
Common Equipment Room (CER) Layout
1 : 25

New
Common Equipment Room (CER) Layout
1 : 25

Telecom Grounding Notes

1. PROVIDE A MAIN TELECOM GROUNDING BUSBAR AS INDICATED ON THE WALL OF ROOM 122.
2. FEED BUSBAR WITH 1/0 COPPER, GREEN INSULATED CONDUCTOR, FED FROM MAIN BUILDING GROUNDING POINT WITHIN ELECTRICAL ROOM 105. INSTALL CONDUCTOR IN EMT CONDUIT.
3. PROVIDE A GREEN INSULATED AWG #6 COPPER GROUND CONDUCTOR TO EACH OF THE 5 CABINETS WITHIN ROOM 122. ROUTE CONDUCTORS VIA THE RAISED COMPUTER ACCESS FLOOR.
4. PROVIDE A GREEN INSULATED AWG #6 COPPER GROUND CONDUCTOR TO EACH OF THE TWO POWER PANELBOARDS WITHIN ROOM 122.
5. PROVIDE A GREEN INSULATED AWG #6 COPPER GROUND CONDUCTOR TO THE DOOR CONTROL PANEL AND THE TELEPHONE PANEL WITHIN ROOM 122.
6. PROVIDE A GREEN INSULATED AWG #6 COPPER GROUND CONDUCTOR TO THE STEEL PEDESTALS IN THE RAISED COMPUTER FLOOR. BOND EVERY 4TH PEDESTAL.
7. PROVIDE A GREEN INSULATED AWG #6 COPPER GROUND CONDUCTOR TO THE NEW CONTROL CONSOLE IN ROOM 100. ROUTE CONDUCTOR VIA THE CEILING SPACE.
8. PROVIDE A HORIZONTAL BUSBAR WITHIN EACH CABINET AND WITHIN THE CONTROL CONSOLE.
9. BOND THE CABINET AND CONSOLE BUSBARS TO THE METAL FRAME.
10. WHEN BONDING METAL FRAMES OF CABINETS AND CONSOLES, USE A TOOTHED PAINT-PIERCING LOCK WASHER TO ENSURE PAINT IS REMOVED AT THE POINT OF CONTACT. USE TWO WASHERS, ONE UNDER THE BOLT HEAD, THE OTHER UNDER THE NUT.
11. BOND EACH SECTION OF THE BOLTED CONTROL CONSOLE TOGETHER TO THE LOCAL GROUND BUS.
12. LABEL EACH CONDUCTOR AND BUSBAR.

Cabinet Notes

1. PROVIDE ONE 2-CIRCUIT 120V, 20A, VERTICAL POWER DISTRIBUTION BAR (ePDU) IN EACH CABINET.
2. PROVIDE TWO 120V, 20A CIRCUITS FED FROM PANEL UAA TO EACH VERTICAL POWER DISTRIBUTION BAR.
3. REMOVE EXISTING CIRCUITS TO THE CABINETS.
4. REMOVE EXISTING UPS WITHIN CABINET 3 AND TURN OVER TO THE DEPARTMENTAL REPRESENTATIVE.
5. PROVIDE SEISMIC BRACING FOR THE NEW CABINETS INCLUDING WALL BRACING AND ANCHOR RODS FASTENED TO CONCRETE FLOOR BELOW.
6. THERE IS AN EXISTING CEILING-MOUNTED DRIP TRAY OVER CABINETS 1 AND 2. ADJUST HEIGHT OF DRIP TRAY CHAINS TO SUIT LARGER HEIGHT OF NEW CABINETS. NOTE THE TRAY MAY BE AN OBSTRUCTION FOR WORK OVER THE CABINETS. THE DRIP TRAY IS USED TO CATCH POTENTIAL CONDENSATE LEAKS FROM THE SMALL AIR CONDITIONER ABOVE.
7. PROVIDE A DEDICATED 120V, 15A CIRCUIT FED FROM PANEL UAA TO THE CABINET FANS.

Correctional Service Canada
Metchosin BC
William Head Institution

Project title/Titre du projet

Principal Entrance
Renovations

Consultant Signature Only

Designed by/Concept par
G. Robertshaw

Drawn by/Dessiné par
D. Burns May 2014

PWOSC Project Manager/Administrateur de Projets TPSCG
S. Leslie

A/Regional Manager, Architectural and Engineering Services
Gestionnaire régionale, Services d'architecture et de génie, TPSCG
O. Klutas

Drawing title/Titre du dessin

Electrical
Common Equipment Room
Partial Floor Plans

Project No./No. du
projet
R.066815.001

Sheet/ Feuille
E3

Revision no./
La Révision
no.