



### Electrical Notes

1. PROVIDE AN ARTICULATED FOLD-UP WALL-MOUNTED KEYBOARD & MONITOR BRACKET FOR THE BAGGAGE X-RAY CONTROL STATION. NOTE THAT THE WALL-MOUNTED BRACKET TRACK MUST BE MOUNTED BELOW THE WINDOW OPENING. EXACT LOCATION OF BRACKET TO BE DISCUSSED WITH DEPARTMENTAL REPRESENTATIVE PRIOR TO INSTALLATION. BRACKET MUST NOT INTERFERE WITH ADJACENT HALLWAY. LOW-PROFILE BRACKET MUST BE SUITABLE FOR SIT-DOWN AND STAND-UP OPERATION.
2. THE EXISTING BAGGAGE X-RAY CONTROL STATION HAS A KEYBOARD WITH A BUILT-IN E-STOP PUSHBUTTON. REMOVE THE EXISTING MONITOR FROM THE SITE AND REPLACE WITH A NEW LCD MONITOR WITH A VGA CONNECTOR. INSTALL AT NEW CONTROL STATION AND EXTEND POWER AND COMMUNICATIONS CABLES TO BAGGAGE X-RAY MACHINE.
3. RELOCATE AND CONNECT THE RUBBER SAFETY FLOOR MAT TO THE NEW CONTROL STATION LOCATION. THE OPERATOR MUST BE STANDING ON THE FLOOR MAT TO ENABLE THE BAGGAGE X-RAY MACHINE TO WORK.
4. EXTEND CABLES FROM THE BAGGAGE X-RAY MACHINE TO THE NEW CONTROL STATION LOCATION. ROUTE CABLES VIA THE WALL SPACE BELOW THE LEVEL OF THE ADJACENT WINDOW. CONNECT THE MONITOR, KEYBOARD AND FLOOR MAT TO THE BAGGAGE X-RAY MACHINE. PROVIDE MECHANICAL PROTECTION FOR THE CABLES. PROVIDE VGA CABLE FOR THE MONITOR. PLUG THE VGA MONITOR INTO EXISTING RECEPTACLE. FLOOR MAT REQUIRES A 2-CONDUCTOR PLUS GROUND #18 CABLE. KEYBOARD REQUIRES A CAT-5E CABLE AND A 4-CONDUCTOR & GROUND #18 CABLE. CONFIRM CABLE REQUIREMENTS PRIOR TO RELOCATION.
5. THE BAGGAGE X-RAY MACHINE PROVIDES SWITCHED 220 VOLTS FOR THE MONITOR VIA AN IEC 14 CONNECTOR (STANDARD COMPUTER POWER CONNECTOR). NEW MONITOR TO BE SUITABLE FOR 100 TO 240 VOLTS. PROVIDE APPROPRIATE IEC C14 CONNECTOR WITH APPROPRIATE LENGTH CABLE TO REACH THE NEW MONITOR AT THE NEW BAGGAGE X-RAY CONTROL STATION LOCATION.
6. PROVIDE A SMITHS DETECTION EXTENDER KIT WITH ALL REQUIRED CABLES, FOR THE EXTENSION OF THE BAGGAGE X-RAY MACHINE CONTROLS. MODEL NUMBER OF BAGGAGE X-RAY MACHINE IS SMITHS DETECTION 6040DS.
7. EXTEND POWER CIRCUIT FOR BAGGAGE X-RAY MACHINE TO NEW LOCATION.
8. OWNER'S ELECTRONIC SECURITY SYSTEMS CONTRACTOR WILL BE AVAILABLE TO PROVIDE LIMITED VERBAL ADVICE FOR THE BAGGAGE X-RAY MACHINE. THE ELECTRONIC SECURITY SYSTEMS CONTRACTOR WILL ALSO REVIEW THE INSTALLATION AND COMMISSION THE MACHINE.
9. PROVIDE A DEDICATED 120V, 20A CIRCUIT FED FROM PANEL AA, 2#10+#14 GND TO THE ELECTRIC ROLL-UP SHUTTER. CONFIRM EXACT CIRCUIT REQUIREMENTS. PROVIDE A LOCAL DISCONNECT SWITCH. INSTALL THE THREE-BUTTON CONTROL STATION AS SHOWN ON DRAWING E9. INSTALL PHOTO-ELECTRIC SENSOR AND OTHER SAFETY DEVICES. PROVIDE CONTROL WIRING AND ROUTE INSIDE WALLS.
10. PROVIDE A RECTANGULAR STEEL WIRING RACEWAY FROM THE NEW CONSOLE IN ROOM 100 UP TO THE CEILING SPACE FOR TELECOM CABLES. PAINT RACEWAY TO MATCH COLOURS IN ROOM. INSTALL RACEWAY ADJACENT TO THE EXTERIOR WINDOWS. PROVIDE J-HOOKS IN CEILING SPACE AS REQUIRED FOR CABLES.
11. UNLESS SPECIFICALLY NOTED OTHERWISE, ALL CABLING SHALL BE FLUSH-MOUNTED WITHIN WALLS. THIS INCLUDES SURFACE-MOUNTED BOXES SUCH AS DOOR CONTROL PANEL D AND THE ROLL-UP SHUTTER CONTROL STATION.
12. PROVIDE TWO 15A 120V UPS CIRCUITS FED FROM PANEL UAA TO THE NEW CONSOLE. THE TWO CIRCUITS ARE FROM THE REMOVED OLD CONTROL CONSOLE. DEPARTMENTAL REPRESENTATIVE TO PROVIDE DIRECTION ON DISTRIBUTION OF OUTLETS WITHIN NEW CONSOLE. PROVIDE 6 DECORA (RECTANGULAR) RECEPTACLES AND FIT THEM WITHIN THE RECEPTACLE HOLES IN THE NEW CONSOLE - RECEPTACLES AND PLATES BLACK TO MATCH NEW CONSOLE PAINT. IN ADDITION TO THE DECORA PLATES, PROVIDE 3 RACK-MOUNTED POWER BARS WITHIN THE CONSOLE - LOCATIONS TO BE DETERMINED BY THE DEPARTMENTAL REPRESENTATIVE.
13. INSTALL ELECTRONIC KEY DETECTION DEVICE SUPPLIED BY DEPARTMENTAL REPRESENTATIVE AS SHOWN AT FRONT DOOR OF PRINCIPAL ENTRANCE BUILDING. FASTEN DEVICE TO CONCRETE WALKWAY USING HILTI BOLTS. CONNECT DEVICE TO NEARBY EXISTING 120V 15A CIRCUIT. USE WIREMOLD 1500 RACEWAY TO CONNECT TO POWER. THERE ARE NO COMMUNICATIONS CABLES REQUIRED. THE PEDESTAL-SHAPED DEVICE IS SIMILAR TO A THEFT DETECTION DEVICE AS USED AT COMMERCIAL STORE ENTRANCES. EXACT LOCATION TO BE DETERMINED BY DEPARTMENTAL REPRESENTATIVE. MODEL NUMBER IS SENTECH STC5800-TX. PRIME AND PAINT GALVANIZED WIREMOLD RACEWAY.

PROVIDE NEW NON-UPS RECEPTACLE FED FROM ADJACENT RECEPTACLE

PROVIDE 3XCAT6 CABLES ROUTE 2 CABLES TO EXISTING LAN PATCH PANEL IN ROOM 120 & 1 CABLE TO TELEPHONE CABINET IN ROOM 122

NEW VEHICLE CONTROL PANEL D SURFACE MOUNTED

INSTALL NEW RECEPTACLE EXTEND CIRCUIT FROM ADJACENT RECEPTACLE

### New Main Floor Plan

1 : 50

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Client/client

**Correctional Service Canada**  
**Metchosin BC**  
**William Head Institution**

Project title/Titre du projet

### Principal Entrance Renovations

Consultant Signature Only

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Drawing title/Titre du dessin

### Electrical New Main Floor Plan

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