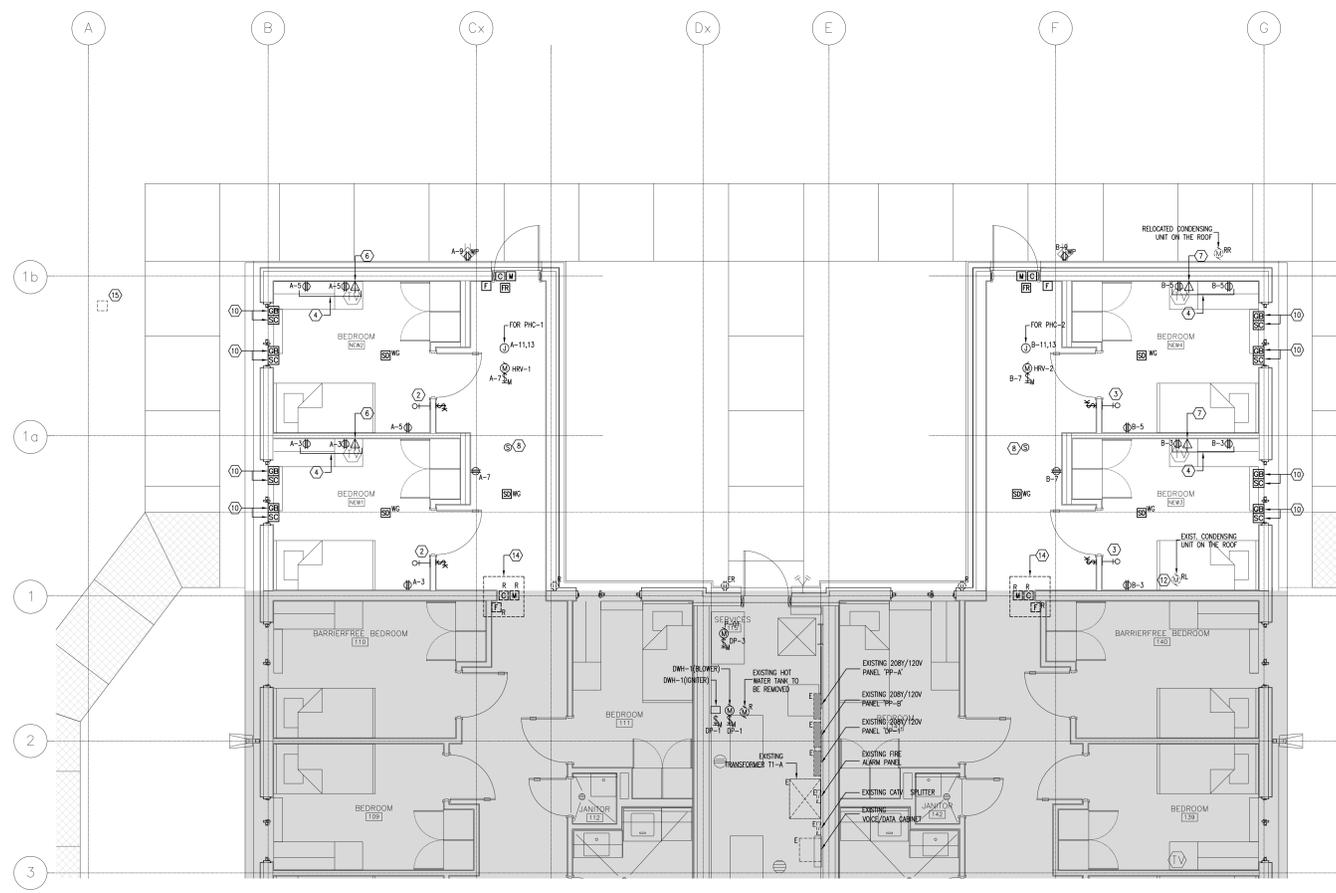


1 ELECTRICAL LIGHTING PLAN
SCALE: 1:50



2 ELECTRICAL POWER & SYSTEMS PLAN
SCALE: 1:50

GENERAL NOTES (LIGHTING, POWER & SYSTEMS)

- THIS CONTRACTOR SHALL COORDINATE THIS WORK WITH OTHER TRADES & ERM TECHNICIANS, & SHALL COORDINATE WITH OTHER CONTRACTORS WHOSE WORK MIGHT AFFECT THESE INSTALLATIONS PRIOR TO WORK PROGRESS TO AVOID CONFLICT. CONTRACTOR SHALL ALSO CONDUCT A THOROUGH SURVEY OF THE EXISTING POWER & LOW VOLTAGE SYSTEMS, & VERIFY CURRENT LOCATIONS PRIOR TO BID SUBMISSION.
- CONDUIT ROUTINGS ARE DIAGRAMMATIC & FOR REFERENCE PURPOSES ONLY. VERIFY IN FIELD FOR EXACT ROUTING OF CONDUITS.
- MULTIPLE LIGHT SWITCHES ON THE SAME LOCATION SHALL BE GANGED TOGETHER IN A SINGLE WALL PLATE.
- ALL RELOCATED & RE-INSTALLED LIT. FIXTURES & EXIT SIGNS SHALL BE CLEANED, RE-LAMPED & RE-BALANCED (RE-BALANCING AS REQUIRED).
- ALL CIRCUITS LABELED 'A' SHALL BE FED FROM THE EXISTING 208Y/120V PANEL 'A' LOCATED IN THE SERVICES ROOM 115.
- ALL CIRCUITS LABELED 'B' SHALL BE FED FROM THE EXISTING 208Y/120V PANEL 'B' LOCATED IN THE SERVICES ROOM 115.
- ALL CIRCUITS LABELED 'TP' SHALL BE FED FROM THE EXISTING 208Y/120V PANEL 'TP-1' LOCATED IN THE SERVICES ROOM 115.
- CIRCUIT NOS. SHOWN ARE FOR GROUPING PURPOSES ONLY. USE AVAILABLE SPACE CIRCUITS IN THE ATTACHED PANELS & PROVIDE A NEW 15-AMP BRANCH CIR FOR EACH NEW CIRCUIT. REFER TO MOTOR SCHEDULE ON DWG E2.0 FOR BRANCH CS RATINGS OF ADDITIONAL, HVC EQUIP. CONTRACTOR TO PROVIDE AN UPDATED & TYPED PANEL SCHEDULE IN ALL THE ATTACHED PANELS.
- FOR EXACT LOCATION OF MECH. EQUIPMENT, REFER TO MECH. DWGS.
- ROUTE ALL NEW VOICE/DATA CABLE TO THE EXISTING PATCH PANEL IN THE SERVICES RM 115.
- ROUTE ALL NEW CATV CABLE TO THE EXISTING MAIN TV HUB & SPLITTER IN THE SERVICES ROOM 115. REFER TO SCHEMATIC DIAGRAM ON DWG E-2.0 FOR CATV SIGNAL CONTROLS. FOR EACH NEW BEDROOM ELECTRICAL CONTRACTOR SHALL TEST SHUNT CONNECTIONS IN THE EXISTING RIGHT ANGLE 18-WAY SPLITTER IN THE SERVICES ROOM 115 FOR NEW CATV OUTLETS. REPLACE EXISTING RIGHT ANGLE SPLITTER AS REQUIRED.
- ALL RELOCATED EXISTING LIGHTING FIXTURES (MARKED 'R') SHALL BE RE-LAMPED & RE-BALANCED (RE-BALANCING AS REQUIRED) PRIOR TO PROJECT TURNOVER.
- CONNECT ALL NEW F.A. DEVICES TO THE EXISTING F.A. CONTROL PANEL IN SERVICES RM 115. FURNISH & INSTALL A MIN. OF (1) F.A. FLOW SWITCH, (1) F.A. TAMPER SWITCH & (1) F.A. ZONE INTR. MODULE AS REQUIRED. COORDINATE WITH SPRINKLER INSTALLER FOR WIRING REQUIREMENTS & EXACT LOCATIONS PRIOR TO WORK PROGRESS.
- ELECTRICAL CONTRACTOR SHALL PROVIDE NECESSARY & REQUIRED F.A. CABLES, APPURTENANCES, ACCESSORIES, F.A. ISOLATORS & PROGRAMMING TO ENSURE THAT THE NEW F.A. DEVICES SHALL BE OPERABLE & INSTALLATION SHALL BE CODE COMPLIANT. F.A. VERIFICATION SHALL BE PART OF THIS CONTRACTOR'S SCOPE OF WORK. F.A. VERIFICATION REPORT FROM A WIREMAN/INSTALLER SHALL BE A MANDATORY PRE-REQUISITE IN ORDER TO ISSUE THE F.A. VERIFICATION CERTIFICATION.
- CONNECT ALL NEW SECURITY DEVICES TO THE EXISTING SECURITY SYSTEM. SEE KEY NOTE #10 ON THIS DRAWING FOR ALL APPLICABLE ITEMS.
- ALL POWER/LIGHTING WIRING & LOW VOLTAGE SYSTEMS CABLEING SHALL BE ROUTED IN SEPARATE CONDUITS.
- CONFIRM EXISTING SITE CONDITIONS & QUANTITY OF EXISTING ELECTRICAL EQUIPMENT WITH DEPARTMENTAL REPRESENTATIVE.
- REFER TO CIVIL DRAWINGS FOR UNDERGROUND ELECTRICAL SERVICES.

KEY NOTES (LIGHTING, POWER & SYSTEMS)

- CONNECT THESE LIGHTING FIXTURES TO THE NEAREST LIGHTING CIRCUIT & SWITCHING CONTROL IN THE CORRIDOR AREA.
- THE THIS CELL CALL STATION TO CELL CALL CONTROL STATION IN STAFF 117.
- THE THIS CELL CALL STATION TO CELL CALL CONTROL STATION IN STAFF 131.
- REFER TO DWG E-2.0 FOR APPROXIMATE LOCATIONS OF ELECT. DEVICES & LIT. FIXTURE ON MILLWORK. COORDINATE ALSO WITH MILLWORK WRENER/INSTALLER FOR EXACT LOCATIONS & MOUNTING HEIGHTS OF THESE ELECT. DEVICES & LIT. FIXTURE.
- EXTEND &/OR REPLACE EXISTING WIRING & CONDUIT TO FINAL LOCATION OF THESE RELOCATED & RE-INSTALLED LIGHTING FIXTURES AS REQUIRED.
- THE THIS CABLE TV OUTLET TO CABLE TV CONTROL PANEL IN STAFF 117.
- THE THIS CABLE TV OUTLET TO CABLE TV CONTROL PANEL IN STAFF 131.
- THE THIS SPEAKER TO EXISTING P.A. SYSTEM. NEW SPEAKER TO MATCH EXISTING SPEAKER TYPE. PROVIDE NECESSARY CABLEING, DEVICES, ACCESSORIES & APPURTENANCES TO MAKE THE NEW P.A. SPEAKERS OPERABLE.
- EXTEND OR REPLACE EXISTING WIRING & CONDUITS TO FINAL LOCATION OF THESE RELOCATED & RE-INSTALLED LIGHTING FIXTURES AS REQUIRED.
- CONNECT THESE NEW SECURITY DEVICES TO THE EXISTING SECURITY PANEL. ALL NEW SECURITY DEVICES TO BE SUPPLIED SHALL BE COMPATIBLE WITH THE EXISTING SECURITY PANEL. PROVIDE NECESSARY CABLEING, ACCESSORIES, APPURTENANCES, PROGRAMMING &/OR UPGRADE/MODIFICATIONS TO THE EXISTING SECURITY PANEL TO MAKE THESE NEW DEVICES OPERABLE (ALLOW FOR ALL OF THE ITEMS & TAGS ABOVE IN THE CONTRACT PRICE). REFER TO INTEGRATED SECURITY & CELL CALL SYSTEMS SCHEMATIC DIAGRAM ON DWG E-2.0.
- CONNECT THIS EMERGENCY LIGHT TO THE NEAREST EMERGENCY LIGHT CIRCUIT.
- COORDINATE WITH MECH. CONTRACTOR ON SITE FOR EXACT & FINAL LOCATION OF THE EXISTING CONDENSING UNIT PRIOR TO WORK PROGRESS. EXTEND &/OR REPLACE EXISTING WIRES & CONDUITS AS REQUIRED.
- CONNECT THIS NEW EXTERIOR WALL PACK HD LUMINAIRE TO EXISTING EXTERIOR LIGHTING CIRCUITARY & SWITCHING CONTROL. FURNISH & INSTALL NECESSARY WIRING & DEVICES TO ENSURE THIS FIXTURE WILL BE OPERABLE.
- EXTEND OR REPLACE ALL EXISTING CABLES & CONDUITS UP TO SOURCE CONNECTION FROM THESE "EXISTING TO BE REMOVED" DEVICES TO THE SAME NEW DEVICES BY THE NEW EXTERIOR DOORS (LOCATION AS SHOWN). NEW DEVICES, TYPES & QUANTITY OF CABLES TO MATCH EXISTING.
- APPROXIMATE LOCATION OF EXISTING ABOVE GROUND JUNCTION BOX CONFIRM ON SITE FOR EXACT LOCATION.

LEGEND

NOTE: DEVICES SHOWN DOTTED OR IN DASHED LINES ARE EXISTING, U.G.A.

| LIGHTING | |
|---------------------------------------|---|
| ⊔ | UNDERCABINET LIGHTING |
| ⊔ | WALL-MOUNTED 15A, 120V LINE VOLTAGE SWITCH |
| ⊔ | WALL-MOUNTED 15A, 120V LINE VOLTAGE MOMENTARY CONTACT TOGGLE SWITCH (SPRING LOADED, NORMALLY-OPEN CONTACTS) |
| ⊔ | WALL-PACK EXTERIOR HD LUMINAIRE |
| ⊔ | WALL-MOUNTED CFL LUMINAIRE |
| ⊔ | CEILING-MOUNTED CFL LUMINAIRE |
| ⊔ | EMERGENCY BATTERY UNIT WITH 2 HEADS |
| ⊔ | EMERGENCY LIGHT DOUBLE REMOTE HEAD |
| ⊔ | CLG.-MOUNTED BILINGUAL EXIT SIGN |
| ⊔ | LUMINAIRE TYPE |
| POWER | |
| ⊔ | WALL-MOUNTED DUPLEX TAMPER PROOF RECEPTACLE c/w TAMPER RESISTANT SCREWS (CSA 5-198) |
| ⊔ | MOTOR |
| ⊔ | DISCONNECT |
| ⊔ | MANUAL STARTER SWITCH |
| ⊔ | WALL MOUNTED GFCI RECEPTACLE |
| COMMUNICATIONS, F.A. SECURITY & MISC. | |
| ⊔ | P.A. SPEAKER |
| ⊔ | CABLE TV c/w TAMPER RESISTANT SCREWS |
| ⊔ | F.A. HORN/SIREN |
| ⊔ | F.A. MANUAL PULL STATION |
| ⊔ | F.A. SMOKE DETECTOR |
| ⊔ | F.A. DOOR RELEASE |
| ⊔ | F.A. RELAY |
| ⊔ | CELL CALL STATION |
| ⊔ | SECURITY DOOR CONTACT |
| ⊔ | SECURITY GLASS BREAK (CENTRAL) |
| ⊔ | SECURITY SCREEN |
| ⊔ | CELL CALL CANCELLATION KEY SWITCH |
| CONDUIT & COMMON SYMBOLS | |
| ⊔ | EXIT CONDUIT |
| ⊔ | FLEX CONDUIT |
| ABBREVIATIONS & SUBSCRIPTS | |
| AF | ABOVE FINISHED FLOOR |
| CB | CIRCUIT BREAKER |
| CFL | COMPACT FLUORESCENT |
| CLG | CEILING / CEILING-MOUNTED |
| ER | EXISTING TO REMAIN |
| FA | FIRE ALARM |
| FHP | FRACTIONAL HORSE POWER |
| GFCI | GROUND FAULT CIRCUIT INTERRUPTER |
| GND | GROUND / GROUND WIRE |
| J-BOX | JUNCTION BOX |
| OCPD | OVER-CURRENT PROTECTION DEVICE |
| PA | PUBLIC ADDRESS |
| R | EXISTING TO BE REMOVED |
| RDCP | REMOTE DISPLAY & CONTROL PANEL |
| RL | EXISTING TO BE RELOCATED |
| RR | EXISTING TO BE RE-INSTALLED |
| SS | STAINLESS STEEL |
| TTB | TEL. TERMINAL BOARD |
| UNGN | UNLESS OTHERWISE NOTED |
| WG | WRE/GUARD |
| WP | WEATHERPROOF (NEMA 3R ENCLOSURE) |

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| 1 | Issued for Tender | 2013 MAR 15 |
| 0 | Issued for Tender | 2011 JAN 15 |
| Revision/ | Description/Description | Date/Date |

Client/Client
EDMONTON ALBERTA
Correctional Services Canada

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Project Title/Titre du projet
EDMONTON INSTITUTION FOR WOMEN
4 Unit ADDITION OF
Structured Living Environment Unit (SLE)

Approved by/Approve par
Designed by/Concept par
Drawn by/Designe par
Review by/Examine par
PWSC Project Manager/Administrateur de Projets TPSCC
PWSC Architectural and Engineering Resources Manager/
Ressources Architectural et de Directeur d'Ingénierie, TPSCC

Client/Client
Drawing Title/Titre du dessin
ELECTRICAL
LIGHTING, POWER & SYSTEMS PLANS

| | | |
|--|------------------------------|--|
| Project No./No. du projet R.030502.001 | Sheet/Feuille E1.0 | Revision no./ Lvl. Révision 0 |
| | 1 OF 2 | |