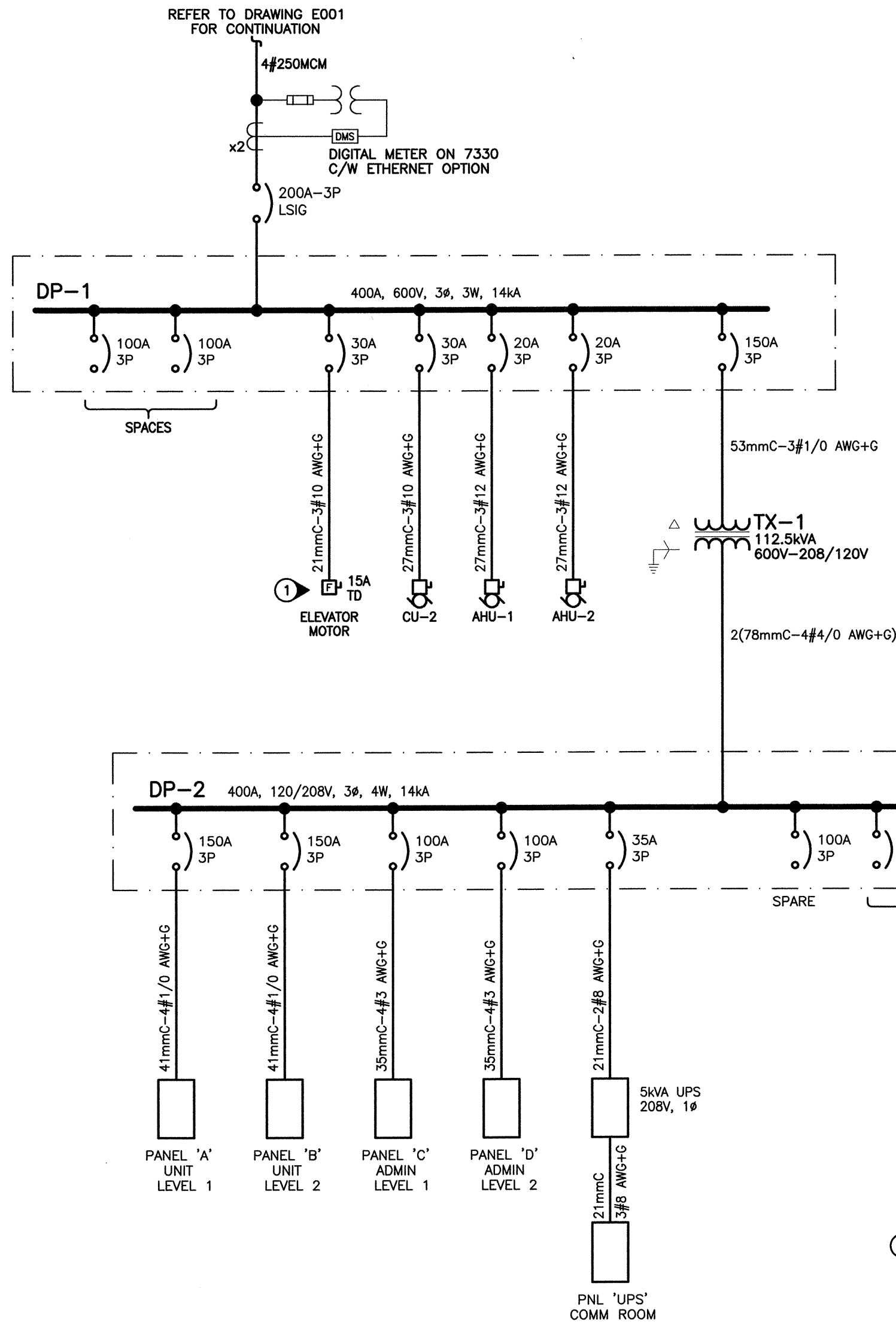
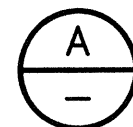


Jun 06, 2013 - 7:27 am
M:\12121-14104-00 Fraser Valley Institution 20-40 Main Unit\DWG\Electrical\E002 (NewSLD ElectCommDet).dwg



KEY NOTES :

1. COORDINATE ELEVATOR POWER REQUIREMENTS WITH ELEVATOR CONTRACTOR PRIOR TO INSTALLATION OF FEEDER AND OVERCURRENT PROTECTION.



ELECTRICAL SINGLE LINE DIAGRAM

SCALE: NONE

CODE LOAD (CEC RULE 8-208)

BUILDING AREA : 1,224m² (20W/m²) = 24,480W
MECHANICAL EQUIPMENT : = 70,485W
POWER LOADS : = 43,928W
138,893W

DEMAND FACTOR :

138,893W/1,224m² = 113.4W/m²
80% (113.4W/m²)(900m²) = 81,648W
65% (113.4W/m²)(1,224m² - 900m²) = 23,882W
81,648W + 23,882W = 105,530W

MINIMUM FEEDER AMPACITY :

105,530W/(80%) = 131,913W
131,913W/(600 x 1.73) = 126.9A

FUTURE BUILDING ADDITION :

BUILDING AREA : 524m² (20W/m²) = 10,480W
MECHANICAL EQUIPMENT : = 8,072W
POWER LOADS : = 43,928W
62,480W

DEMAND FACTOR :

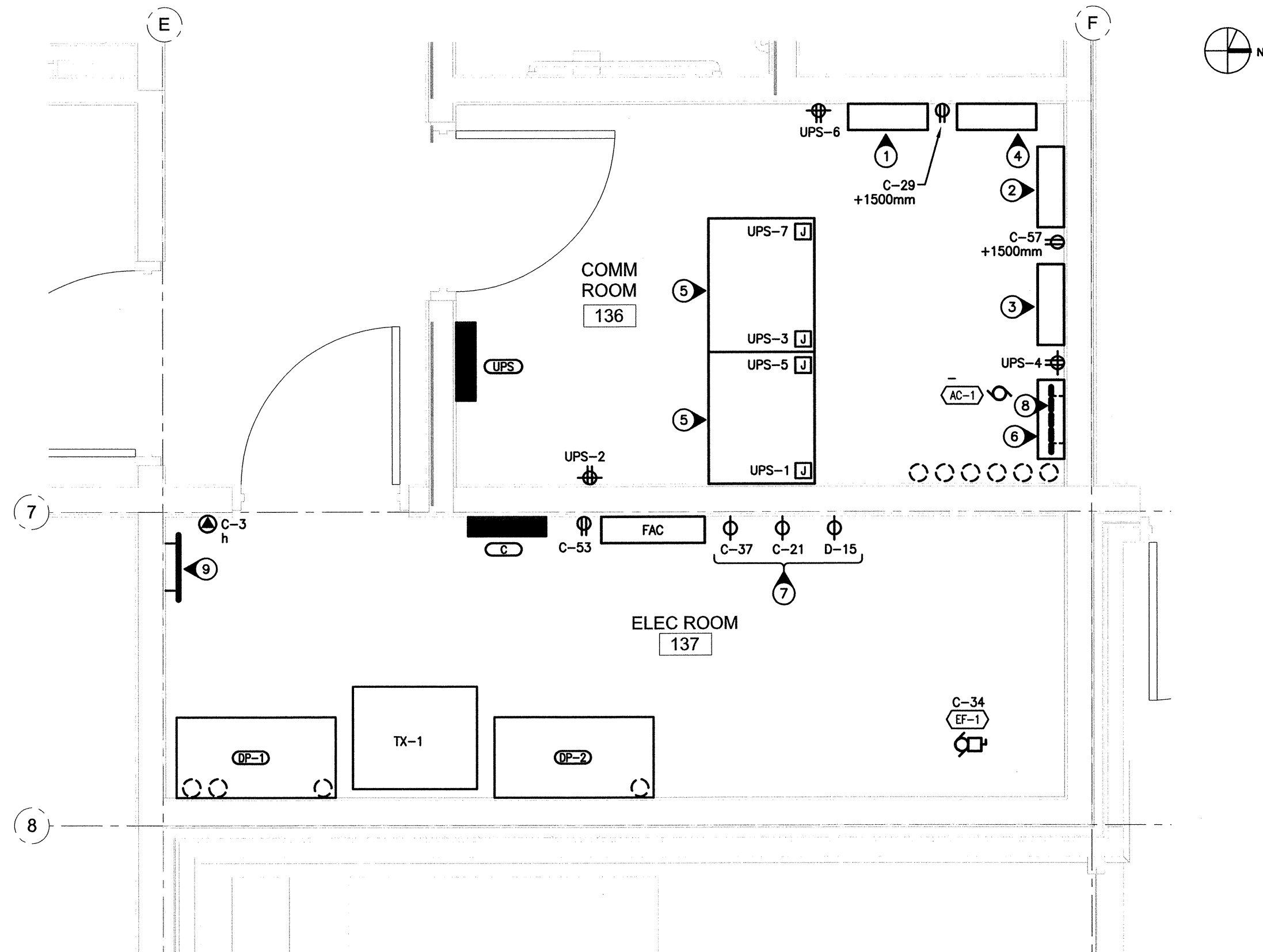
62,480W/524m² = 119.2W/m²
80% (119.2W/m²)(524m²) = 49,984W

MINIMUM FEEDER AMPACITY :

49,984W/(80%) = 62,480W
62,480W/(600 x 1.73) = 60.12A

OVERALL FEEDER AMPACITY :

126.9A + 60.12A = 187.02A



KEY NOTES :

1. PERSONAL PROTECTION ALARM ANTENNA: LOCKABLE ENCLOSURE (MODEL No. SENSTAR FLASH T1AD0102-001); RECEIVER (MODEL No. SENSTAR FLASH T1EM0101). PPA RECEIVER TO BE MOUNTED IN THE OPTIMAL POSITION TO ENSURE ADEQUATE RECEPTION IN THE BUILDING. FINAL LOCATION SHALL BE BASED ON TEST OF RECEPTION WITHIN THE BUILDING. PROVIDE A DEDICATED 120V, 15A DUPLEX RECEPTACLE AND 2 CABLE DATA DROP TO THE RECEIVER.
2. SECURITY LOCKABLE CABINET
3. CATV AMPLIFIER LOCKABLE CABINET
4. PA SYSTEM LOCKABLE CABINET
5. COMMUNICATIONS LOCKABLE CABINET
6. TELEPHONE PUNCH-DOWNS LOCKABLE CABINET
7. EMERGENCY LIGHTING BATTERY PACK RECEPTACLE
8. TELECOMMUNICATIONS MAIN GROUND BUS (TMGB)
9. MASTER GROUND BUS

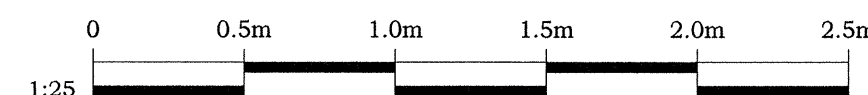
GENERAL NOTES :

1. CABINET RECEPTACLES TO BE INSTALLED INSIDE THE ENCLOSURE WHERE PRACTICAL. ALLOW FOR ADDITIONAL RECEPTACLES AS REQUIRED.



COMMUNICATIONS ROOM & ELECTRICAL ROOM LAYOUT

SCALE: 1 : 25



Public Works and
Government Services
Canada

Travaux publics et
Services gouvernementaux
Canada

REAL PROPERTY SERVICES
Pacific Region
SERVICES IMMOBILIERS
Région de Pacifique



GENIVAR

1985 WEST BROADWAY, SUITE 200
VANCOUVER, BRITISH COLUMBIA, CANADA V6J 4Y3
TELEPHONE: (604) 736-5421
FAX: (604) 736-1519



| Revision/Revision | Description/Description | Date/Date |
|-------------------|-------------------------|-------------|
| | | |
| | ISSUED FOR TENDER | 12 Nov 19 |
| | TENDER READY SUBMISSION | 12 Sept 13 |
| | 99% SUBMISSION | 12 June 22 |
| | 50% SUBMISSION | 12 March 30 |

Client/client

**CORRECTIONAL
SERVICE OF
CANADA**

Project title/Titre du projet

FRASER VALLEY INSTITUTION
33344 KING ROAD, ABBOTSFORD, BC
**TWENTY BED
LIVING UNIT**

Consultant Approval Box Only

Designed by/Concept par
Kresimir Brzica

Drawn by/Dessiné par
Larry Cadiente

PWGSC Project Manager/Administrateur de Projets TPSGC
Patrick Truong

PWGSC Regional Manager, Architectural and Engineering Services/
Gestionnaire régionale, Services d'architecture et de génie, TPSGC

Drawing title/Titre du dessin

**ELECTRICAL SINGLE LINE DIAGRAM
COMMUNICATIONS ROOM AND
ELECTRICAL ROOM
DETAILS**

Project No./No. du projet

R.052462.001

Sheet/ Feuille

E002

Revision no./
La
Révision
no.