

PGNCC Room Requirements - Electrical Table 1			
Space	Receptacle		Comments
	Receptacle	Specialty Outlet	
One Person Office	X		(1) quadplex receptacle and (2) duplex receptacles.
Multiple Person Office	X		(1) quadplex receptacle at each desk or workstation plus (1) duplex receptacle on the wall for every 9m <sup>2</sup>
Meeting Room			
a. Small	X		(1) duplex receptacle for every 7.5m <sup>2</sup> and a minimum of (1) floor-mounted quadplex receptacles under meeting table.
b. Medium (Seminar)	X		(1) duplex receptacle for every 7.5m <sup>2</sup> and a minimum of (2) floor-mounted quadplex receptacles under meeting table.
c. Large (Conference)	X		(1) duplex receptacle for every 7.5m <sup>2</sup> and (1) floor-mounted quadplex receptacle under presenter table by podium/lecturn.
Reception / Booking Area	X		(1) quadplex receptacle at each desk or workstation plus (1) duplex receptacle on the wall for every 9m <sup>2</sup>
Laboratory	X	X	Sufficient outlets should be located to meet identified requirements of laboratory equipment, and (1) duplex receptacle for each 500m of workbench space.
Staff Kitchen / Lounge	X		Sufficient outlets should be located to meet identified requirements of kitchen appliances, and (1) duplex receptacle above counter per every 2m of counter length.
Patient Care Area	X		(1) quadplex receptacle on each side of bed, stretcher, recliner chair or table. (1) duplex receptacle for electric bed. (1) duplex 5-20RA receptacle for housekeeping. (1) duplex receptacle for specialty equipment.
Treatment / Procedure Room	X	X	Sufficient duplex receptacles and outlets should be located to meet the identified program requirements, plus receptacles located to facilitate regular maintenance and cleaning.
Hallways, Common Area, and Other Non-defined Areas	X		(1) duplex receptacle for each 15m of linear wall, and a minimum of (1) duplex receptacle in each wall section longer than 2m between two doors.
Service Room			
a. Electrical Room			Sufficient outlets should be located to meet identified requirements of electrical equipment (excl. hardwired connections to equipment), and (1) duplex receptacle per each 3m of linear, unobstructed wall space.
b. Communications / Server Room			Sufficient outlets should be located to meet identified requirements of communications and network equipment (excl. hardwired connections to equipment), (2) duplex receptacles per rack, and (1) duplex receptacle per each 3m of linear, unobstructed wall space.
c. Mechanical Room	X		Sufficient outlets should be located to meet identified requirements of mechanical equipment (excl. hardwired connections to equipment), and (1) duplex receptacle per each 3m of linear, unobstructed wall space.
d. Storage areas	X		(1) duplex receptacle for every 45m <sup>2</sup> of linear wall. Minimum of (1) duplex receptacle.
Parking		X	(1) outlet per staff parking stall (block heater). Requirement applies to surface parking or aboveground parkade where stalls are outdoors or within 3m of direct outdoor exposure.

PGNCC Room Requirements - Electrical Table 2									
Space	Lighting Requirements								Comments
	Switched	Multi-level	Dimmable	Examination Light	Task Specific Lighting	Surgical Light	Central Switching	Photocell	
One Person Office	X	X							minimum 2 levels
Multiple Person Office	X	X							minimum 2 levels and (1) additional level for each three workstations.
Meeting Room									Minimum 2 levels (typical to all meeting rooms)
a. Small	X	X							
b. Medium (Seminar)	X	X	X						
c. Large (Conference)	X	X	X						
Patient Care Areas									
a. General Room	X								
b. Observation				X					Examination light may be portable
c. Night light	X								
d. Reading	X		X						
Laboratory / Pharmacy / Technical Area									
a. General Room	X								
b. Functional Area					X				Task light may be portable
Treatment Area									
a. Patient Treatment	X		X						
b. Control / Observation	X	X							Minimum 2 levels
c. Cleanup	X								
Procedure Room									
a. General	X								Minimum 3 levels
b. Operating Table			X			X			Minimum 2 heads
c. Scrub Areas	X								
d. Instrument and Sterile Supply Areas	X								
e. Cleanup Areas	X								
Exam Room	X			X					Examination light may be portable
Specifically Defined Function Areas					X				
Hallways, Common Areas, Reception / Booking Area		X					X		Minimum 2 levels
Other Non-defined Areas	X								
Stairways							X		
Storage Rooms	X								
Service Rooms	X	X							Minimum 2 levels
Exterior Walkways								X	
Parking / Parkade								X	Control light spill to no more than 5% off site. Minimum average lighting level of 50lux (or 5fc). Minimum average lighting level at parking lot entrance during daylight hours of 500lux (or 50fc). Horizontal uniformity ratio will be a maximum of 10:1. Other conditions not defined will follow IESNA Design Guidelines.
Roadways								X	Control light spill to no more than 5% off site.

PGNCC Room Requirements - Electrical Table 3														
Space													Comments	
	Nurse Call							Physiological Monitor	Tel/Data	Patient Entertainment Systems	Intercom		Time System	
	Patient Station	Staff Station	Patient Emergency Pull-Cord Station	Code Blue	Generic Monitor Point	Bed Monitor	Nurse Call Master Station				Central	Local		
One Person Office									X					(2) tel/data drops
Multiple Person Office									X					(2) tel/data drops per workstation
Meeting Room									X				X	(2) tel/data drops for every 7.5 m <sup>2</sup>
Patient Care Areas (per patient station)	X	X		X	X	X		X	X	X	X		X	(2) tel/data drops
Patient Washroom			X											
Treatment Area (Supervised)														
a. Patient Treatment Room		X		X				X	X			X	X	(2) tel/data drops
b. Control / Observation Room		X							X			X	X	(2) tel/data drops
Procedure Room								X	X				X	(2) tel/data drops for every 5 m <sup>2</sup> ;
Laboratory / Pharmacy / Technical Area									X				X	(2) tel/data drops for every 5 m <sup>2</sup> ; (1) clock for every 100m <sup>2</sup>
Patient Care Corridors							See note 1.						X	1. Nurse call marquee's in corridors longer than 5m.
Nurse Stations							X	X	X		X		X	(2) tel/data drops for every 7.5 m <sup>2</sup>
Patient Waiting Areas									X	X	X		X	(2) tel/data drops

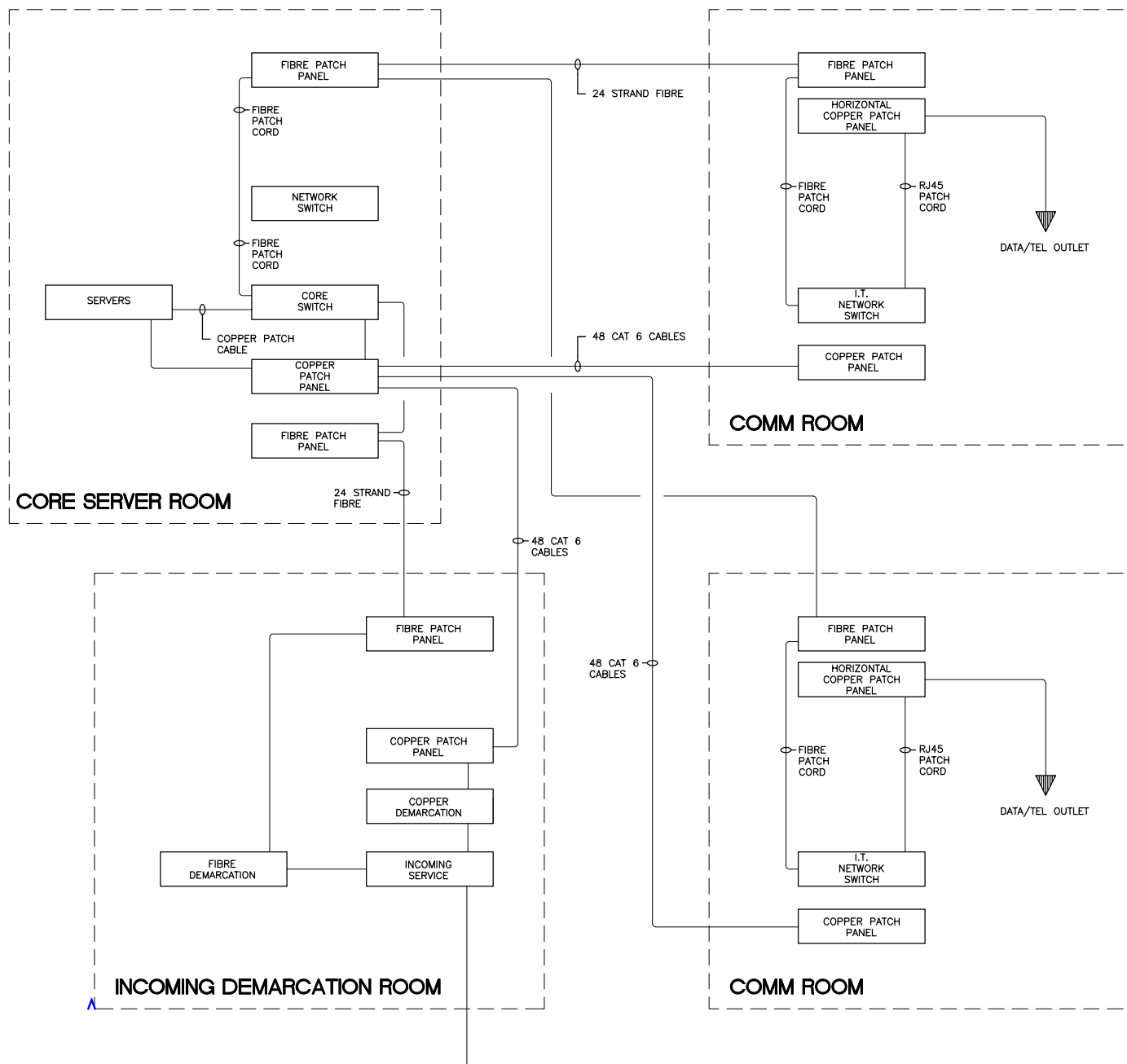
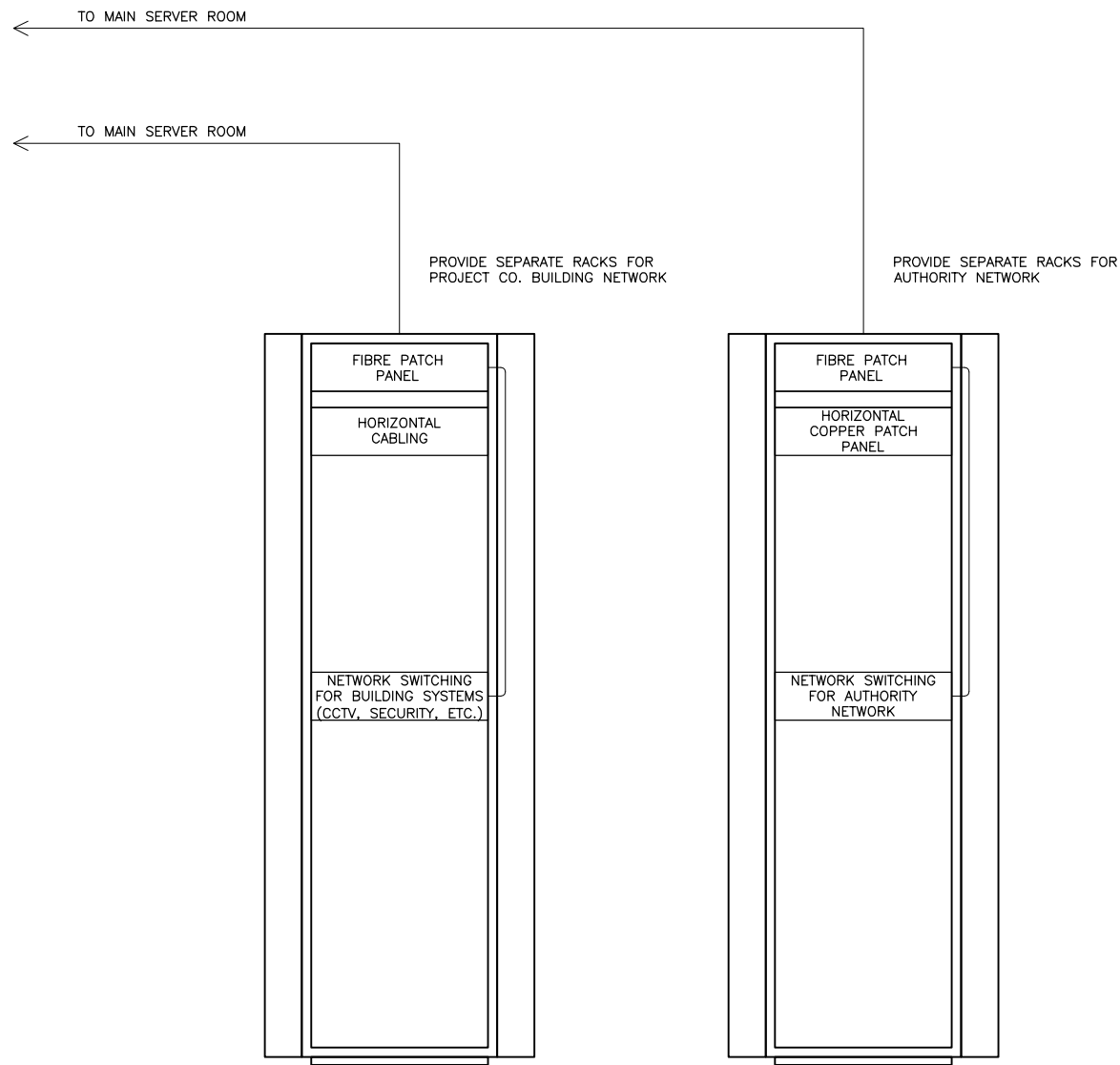


FIGURE 1: COMMUNICATIONS SINGLE LINE DIAGRAM



**NOTES:**

1. CONTRACTOR TO PROVIDE ALL WORK SHOWN UNLESS OTHERWISE SPECIFIED.
2. PROVIDE CABLE TRAY AROUND PERIMETER OF ROOM AND ABOVE RACKS.
3. ALL NETWORK SWITCHES SHOWN ARE BY OWNER.

FIGURE 2: DRAFT RACK LAYOUTS FOR MAIN COMMUNICATIONS ROOM

January 20, 2009

Appendix 3C Electrical (BCCA Centre for the North)  
Project Agreement  
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