

POWER PLAN LEGEND			
SYM.	DESCRIPTION	COMMENTS	NOTE
	120V 20 AMP DUPLEX RECEPTACLE @ 18" AFF (UNLESS NOTED)		
	120V 20 AMP DEDICATED RECEPTACLE SEE PANEL SCHEDULE FOR CIRCUIT SIZE		
	120V 20 AMP GFI RECEPTACLE	ALL OUTLETS WITHIN 48" OF A WATER SOURCE SHALL BE GFI	
	120V 20 AMP WEATHER PROOF DUPLEX RECEPT. @ 30" AFF (UNLESS NOTED)		
	120V 20 AMP RECEPTACLE @ 6" ABOVE COUNTER		
	120V 20 AMP QUAD RECEPTACLE @ 18" AFF (UNLESS NOTED)		
	220V DUPLEX RECEPTACLE @ 18" AFF (UNLESS NOTED)		
	120V 20 AMP DUPLEX RECEPTACLE ABOVE CEILING		
	QUAD CAT.5 JACK WITH FACEPLATE NETWORKING CONNECTION		4
	POWER DISCONNECT		
	ELECTRIC WATER HEATER SIZE AS NOTED		
	VVT SYSTEM TERMINAL ABOVE CEILING		3

NOTES:  
 1. CONNECT ALL EMERGENCY / EXIT LIGHT FIXTURES TO NEAREST CONSTANT POWER SOURCE.  
 2. MANUFACTURER SUPPLIED 120V PRIMARY / 24V SECONDARY 50VA TRANSFORMER AT EACH VVT TERMINAL. VVT UNITS ON EACH RESPECTIVE AHU TO SHARE CKT BRKR.  
 3. PROVIDE 3/4" EMT CONDUIT AT EACH DATA JACK. STUB UP 12" ABOVE CEILING.

PANEL: PNL A (EXISTING)		VOLTAGE: 208/120V, 225A 3Ø, 4W		ENCLOSURE: RECESSED W/EQUIPMENT GND BAR		FEEDER SOURCE: SERVICE PROVIDER					
CKT. NO.	THIN WIRE SIZE	LOAD DESCRIPTION		LOAD (VA)	BREAKER		LOAD (VA)	LOAD DESCRIPTION		THIN WIRE SIZE	CKT. NO.
		LOCATION	AMP POLE		POLE	AMP		LOCATION	POLE AMP		
1	#12	LIGHTING: RM 111, 112	20 1	1600			1240	1 20	LIGHTING: RM 113, 114, 115, CORRIDOR	#12	2
3	#12	LIGHTING: CORRIDOR, NURSE STATION	20 1	1560			720	1 20	LIGHTING: RM 108, 109, 110	#12	4
5	#12	LIGHTING: RM 106, 107	20 1	960			1200	1 20	LIGHTING: RM 103, 104, 105	#12	6
7	#12	LIGHTING: RM 101	20 1	1440			720	1 20	LIGHTING: RM 100	#12	8
9	#12	LIGHTING: RM 119, 120, 121, 122, 123	20 1	1200			720	1 20	LIGHTING: RM 116, 117, 118	#12	10
11	#12	LIGHTING: RM 207, 208	20 1	800			1440	1 20	LIGHTING: RM 200, 201, 202	#12	12
13	#12	LIGHTING: RM 203	20 1	1560			1440	1 20	LIGHTING: RM 203	#12	14
15	#12	LIGHTING: RM 203	20 1	1680			360	1 20	LIGHTING: RM 203	#12	16
17	#12	OUTLETS	20 1	1600			1600	1 20	OUTLETS	#12	18
19	#12	OUTLETS	20 1	1600			1600	1 20	OUTLETS	#12	20
21	#12	OUTLETS	20 1	1600			1600	1 20	OUTLETS	#12	22
23	#12	REFRIGERATOR OUTLET	20 1	1000			1600	1 20	OUTLETS	#12	24
25	#12	OUTLETS	20 1	1600			1600	1 20	OUTLETS	#12	26
27	#12	OUTLETS	20 1	1600			1600	1 20	OUTLETS	#12	28
29	#12	OUTLETS	20 1	1600			1600	1 20	OUTLETS	#12	30
31	#12	OUTLETS	20 1	1600			1600	1 20	OUTLETS	#12	32
33	#12	OUTLETS	20 1	1600			1600	1 20	OUTLETS	#12	34
35	#12	OUTLETS	20 1	1600			1600	1 20	OUTLETS	#12	36
37	#12	LIGHTING: RM 204, 205, 206	20 1	1600			1600	1 20	SPARE	#12	38
39	#12	SPARE	20 1	1600			1600	1 20	SPARE	#12	40
41	#12	SPARE	20 1	1600			1600	1 20	SPARE	#12	42
				TOTAL CONNECTED LOAD (VA)=59640							
				A#=20800 B#=19040 C#=19800							

PANEL: PNL B (EXISTING)		VOLTAGE: 208/120V, 225A 3Ø, 4W		ENCLOSURE: RECESSED W/EQUIPMENT GND BAR		FEEDER SOURCE: SERVICE PROVIDER					
CKT. NO.	THIN WIRE SIZE	LOAD DESCRIPTION		LOAD (VA)	BREAKER		LOAD (VA)	LOAD DESCRIPTION		THIN WIRE SIZE	CKT. NO.
		LOCATION	AMP POLE		POLE	AMP		LOCATION	POLE AMP		
1	2/0	X-RAY GENERATOR MAIN POWER PANEL	150 2	20000			6240	2 100	X-RAY AUXILIARY POWER PANEL	2/0	2
3				20000			6240				4
5	#12	DEDICATED OUTLET IN X-RAY ROOM	20 1	1600			1600	1 20	DEDICATED OUTLET IN DARKROOM	#12	6
7		PARKING LOT LIGHTING	20 1	1600			3000				8
9		FUTURE MONUMENT SIGN	20 1	1600			3000	3 50	60 GAL WATER HEATER		10
11		BLANK					3000				12
13		BLANK							BLANK		14
15		BLANK							BLANK		16
17		BLANK							BLANK		18
19		BLANK							BLANK		20
21		BLANK							BLANK		22
23		BLANK							BLANK		24
25		BLANK							BLANK		26
27		BLANK							BLANK		28
29		BLANK							BLANK		30
31		BLANK							BLANK		32
33		BLANK							BLANK		34
35		BLANK							BLANK		36
37		BLANK							BLANK		38
39	#12	SPARE	20 1	1600			1600	1 20	SPARE	#12	40
41	#12	SPARE	20 1	1600			1600	1 20	SPARE	#12	42
				TOTAL CONNECTED LOAD (VA)= 68880							
				A#=28140 B#=31340 C#=9400							

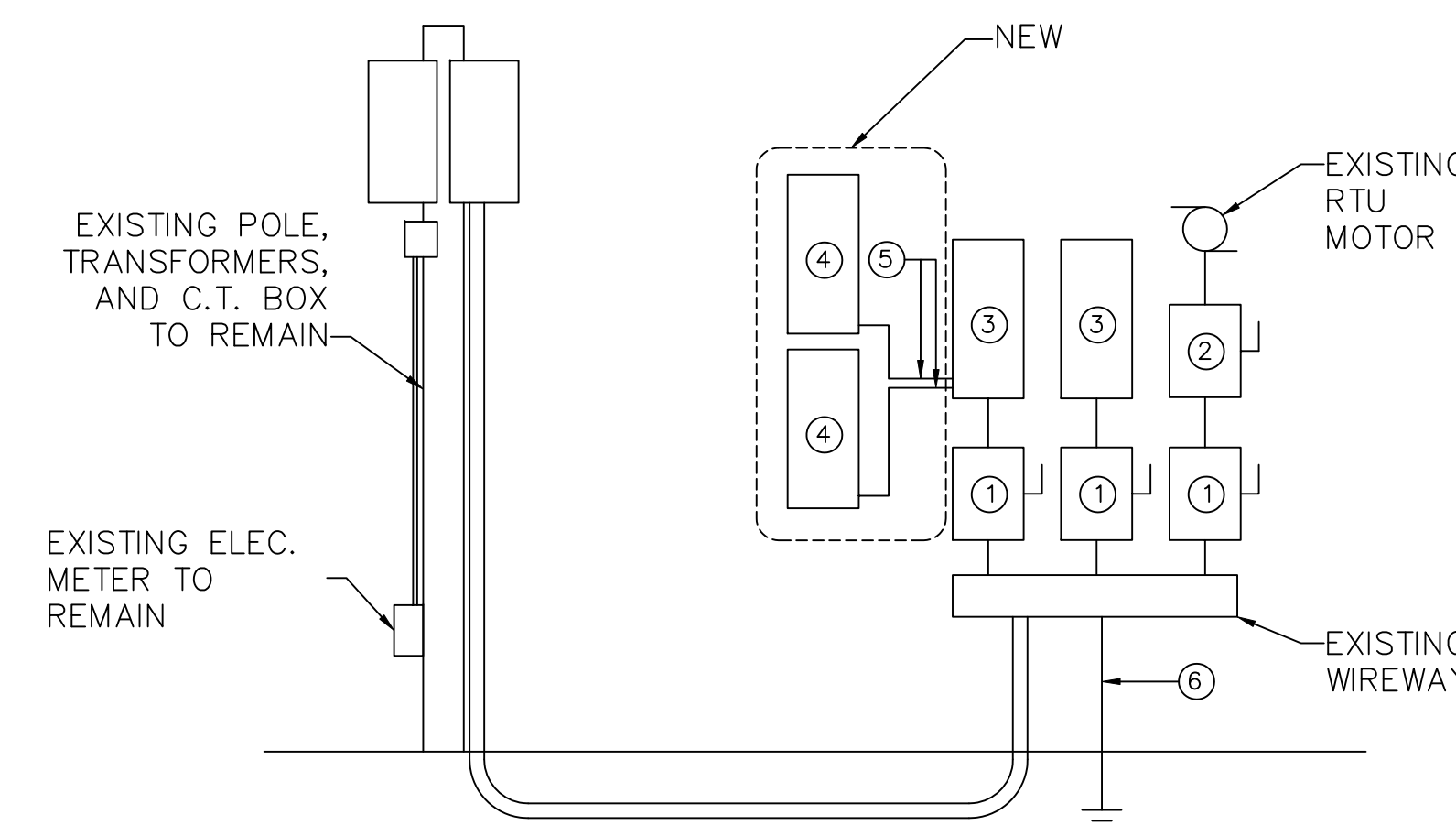
PANEL: PNL C (NEW)		VOLTAGE: 208/120V, 150A 1Ø, 3W		ENCLOSURE: RECESSED W/EQUIPMENT GND BAR		FEEDER SOURCE: SERVICE PROVIDER					
CKT. NO.	THIN WIRE SIZE	LOAD DESCRIPTION		LOAD (VA)	BREAKER		LOAD (VA)	LOAD DESCRIPTION		THIN WIRE SIZE	CKT. NO.
		LOCATION	AMP POLE		POLE	AMP		LOCATION	POLE AMP		
1	#1	X-RAY GENERATOR	150 2	20000					BLANK		2
3				20000					BLANK		4
5		BLANK							BLANK		6
7		BLANK							BLANK		8
9		BLANK							BLANK		10
11		BLANK							BLANK		12
				TOTAL CONNECTED LOAD (VA)=40000							
				A#=20000 B#=20000							

PANEL: PNL D (NEW)		VOLTAGE: 208/120V, 150A 1Ø, 3W		ENCLOSURE: RECESSED W/EQUIPMENT GND BAR		FEEDER SOURCE: SERVICE PROVIDER					
CKT. NO.	THIN WIRE SIZE	LOAD DESCRIPTION		LOAD (VA)	BREAKER		LOAD (VA)	LOAD DESCRIPTION		THIN WIRE SIZE	CKT. NO.
		LOCATION	AMP POLE		POLE	AMP		LOCATION	POLE AMP		
1	#12	X-RAY AUXILIARY EQ.	20 1	1600			1600	1 20	X-RAY AUXILIARY EQ.	#12	2
3	#12	X-RAY AUXILIARY EQ.	20 1	1600					BLANK		4
5		BLANK							BLANK		6
7		BLANK							BLANK		8
9		BLANK							BLANK		10
11		BLANK							BLANK		12
				TOTAL CONNECTED LOAD (VA)= 4800							
				A#=3200 B#=1600							

LIGHTING FIXTURE SCHEDULE			
SYMBOL	DESCRIPTION	MANUFACTURER PRODUCT #	LAMPS
	2'x4' RECESSED FLOURESCENT W/ HIGH PERFORMANCE	LIGHTOLIER GOS2G232	2- T8 32W FLOURESCENT 120V
	EMERGENCY EGRESS LIGHT W/ 90 MIN. BATTERY BACKUP	EELP LIGHTING EM1	2-5.4W HALOGEN
	WALL MOUNTED LED EXIT SIGN	EELP LIGHTING XE 2 R W EM	LED
	SURFACE MOUNTED FLOURESCENT	LEVITON 9860 LHG	1-13W FLOURESCENT 120V

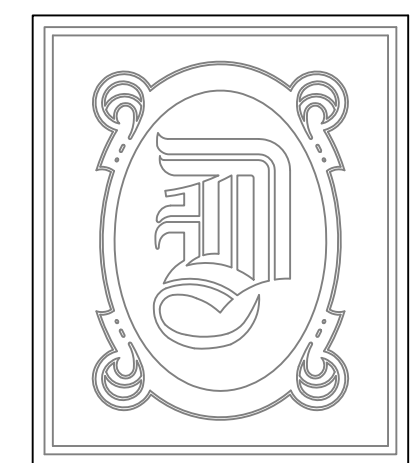
NOTES:  
 1. CONNECT ALL EMERGENCY / EXIT LIGHT FIXTURES TO NEAREST CONSTANT POWER SOURCE.

ELECTRICAL NOTES	
1. ALL WORK SHALL CONFORM TO THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE, THE GOVERNING ELECTRICAL CODE AND ALL OTHER INSPECTION DEPARTMENTS HAVING JURISDICTION. OBTAIN CERTIFICATES OR APPROVAL WHERE REQUIRED.	
2. ALL MATERIALS FURNISHED SHALL BE NEW AND SHALL BE U.L. LISTED.	
3. THE DRAWINGS INDICATE SIZE AND GENERAL LOCATION OF WORK. SCALE DIMENSIONS SHALL NOT BE USED. THE EXACT LOCATION AND LOCATION OF ALL LIGHTING FIXTURES, RECEPTACLES AND TELEPHONE OUTLETS, ETC. SHALL BE DETERMINED BY ACTUAL CONDITIONS IN THE FIELD.	
4. PRIOR TO BIDDING, CONTRACTOR SHALL VISIT THE JOB SITE AND FAMILIARIZE THEMSELVES WITH THE EXISTING CONDITIONS.	
5. ELECTRICAL CONTRACTOR SHALL COORDINATE HIS WORK WITH OTHER TRADES AND WITH OTHER CONTRACTORS WHOSE WORK MAY AFFECT THIS INSTALLATION.	
6. ELECTRICAL CONTRACTOR SHALL COORDINATE INCOMING ELECTRICAL SERVICE WITH UTILITY COMPANY AND INCLUDE IN HIS BID ALL CHARGES AND FEES INCURRED IN MODIFICATIONS.	
7. WHERE MORE THAN ONE SWITCH OCCURS IN THE SAME LOCATION, THEY SHALL BE INSTALLED IN A GANG TYPE BOX UNDER ONE COVER PLATE.	
8. ELECTRICAL CONTRACTOR SHALL COORDINATE THE TELEPHONE INSTALLATION WITH THE TELEPHONE COMPANY AND THE GENERAL CONTRACTOR.	
9. ELECTRICAL CONTRACTOR, BEFORE INSTALLING ANY OF THE WORK, SHALL SEE THAT IT DOES NOT INTERFERE WITH CLEARANCES REQUIRED FOR FINISHED CEILINGS, HUNG CEILINGS, PLASTER PARTITIONS, WALLS, ETC. AS SHOWN IN THE ARCHITECTURAL DRAWINGS AND DETAILS. IF ANY WORK IS INSTALLED AND IT LATER DEVELOPS THAT SUCH DETAILS OR DESIGN CANNOT BE FOLLOWED, THE CONTRACTOR, AT HIS OWN EXPENSE, SHALL MAKE SUCH CHANGES IN THE WORK AS DIRECTED BY THE ARCHITECT, AS WELL AS TO PERMIT THE INSTALLATION OF THE ARCHITECTURAL WORK AS SHOWN ON THE PLANS AND DETAILS.	
10. PERFORM TEST REQUIRED BY THE OWNER OR THE ENGINEER IN CONNECTION WITH THE OPERATION OF THE ELECTRICAL SYSTEM IN THE BUILDING.	
11. ALL TESTS SHALL BE MADE IN ACCORDANCE WITH THE LATEST STANDARD OF THE IEEE AND THE NATIONAL ELECTRICAL CODE.	
12. MINIMUM CONDUCTOR SIZE SHALL BE #12, 600V INSULATION. MINIMUM SIZE CONDUIT SHALL BE 3/4" EMT FOR INTERIOR USE, AND 3/4" RIGID ALUMINUM FOR EXTERIOR USE. USE TYPE NMC CABLE COPPER FOR LIGHTS AND RECEPTACLE CIRCUITS. EXTERIOR FITTINGS SHALL BE CAST BOXES AND COVERS. INTERIOR FITTINGS SHALL BE CAST WHERE EXPOSED ON WALLS. STAMPED BOXES MAY BE USED ABOVE CEILINGS IN AIR CONDITIONED SPACES. WHERE LAY IN FIXTURES ARE IN USE, USE 1/2" ALLOWED FOR 6" WIDTH.	
13. CONTRACTOR SHALL INSTALL WIRING AND OTHER CIRCUIT COMPONENTS TO MATCH EQUIPMENT ACTUALLY INSTALLED.	
14. INSTALL GROUND FAULT RECEPTACLES AT RECEPTACLE LOCATIONS WITHIN 5' OF SINKS OR LAVATORIES, AND AT EXTERIOR LOCATIONS. EXTERIOR RECEPTACLES SHALL ALSO BE WATERPROOF.	
15. BONDING AND GROUNDING SHALL BE IN ACCORDANCE WITH NFPA 70:230-63, NFPA 250-23, 250-71 & 250-72.	
16. GROUND NEUTRAL IN ACCORDANCE WITH NFPA 70:250-23b.	
17. FUSES SHALL BE ITT CLASS K5, 250 VOLT, 200,000 AMP INTERRUPTING CAP.	
18. PROVIDE SERVICES OF A FIRE/SMOKE DETECTION AND ALARM COMPANY TO DESIGN AND INSTALL ALARM SYSTEM TO MEET REQUIREMENTS OF THE STATE FIRE MARSHALL.	
19. EXTERIOR LIGHTING SHALL BE SHADED OR INWARDLY DIRECTED IN SUCH A MANNER SO THAT NO DIRECT LIGHTING OR GLARE IS CAST BEYOND THE PROPERTY LINE. THE INTENSITY OF SUCH LIGHTING SHALL NOT EXCEED ONE FOOT CANDLE AS MEASURED AT THE ADJUTING PROPERTY LINE.	
20. ALL ELECTRICAL, MECHANICAL AND PLUMBING PENETRATING FIRE PARTITIONS SHALL BE FIRE CAULKED. (PENETRATIONS THROUGH RATED CONSTRUCTION SHALL BE SEALED WITH A MATERIAL CAPABLE OF PREVENTING THE PASSAGE OF FLAMES AND HOT GASES WHEN TESTED IN ACCORDANCE WITH ASTM-E814.)	



ELEC. RISER DIAGRAM  
N.T.S.

- ELECTRICAL ONE LINE DIAGRAM NOTE 9:
- EXISTING 200A FUSED DISCONNECT TO REMAIN.
  - EXISTING 200A DISCONNECT FUSED AT 150A TO REMAIN.
  - EXISTING 225A 120/208V 3Ø PANEL TO REMAIN. LOCATED IN ROOM #113
  - NEW 120/208 1Ø 150A LOAD CENTER WITH MAIN BREAKER. LOCATED IN ROOM #106, SEE SHEET E-1 FOR X-RAY EQUIPMENT NOTES.
  - 2-2/0  
1- 1/0 N.  
1- #4 G.  
1- 1-1/2" C.
  - EXISTING GRND ROD, GRND WIRE, AND PVC CONDUIT TO REMAIN.
  - ALL EXISTING ELECTRICAL SERVICE EQUIPMENT TO REMAIN.



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PANEL SCHEDULE

REV:

SCALE: AS NOTED

JOB#: 2132

DATE: 04-17-12

SHEET 10

E-3

OF 12