PANELBOARD SCHEDULE - 'HQ'

MAIN: 125A MLO | VOLTAGE: 480/277 | PHASE: 3 | WIRE: 4 | MOUNTING: RECESSED | AIC: 14K

CKT #	TRIP POLE	DESCRIPTION	LOAD (KVA) LTG	REC	MTR	A/C	HTG	KIT	MISC	PHASE A B C	LOAD (KVA) LTG	REC	MTR	A/C	HTG	KIT	MISC	DESCRIPTION	TRIP POLE	CKT #
1	50/3	PANEL LQ	0.0	2.2	0.4	0.0	0.0	0.0	0.6		1.3							LIGHTING	20/1	2
3	-	VIA XFMR LQ	0.0	2.5	0.0	0.0	0.0	0.0	0.8						8.3			WATER HEATER	30/1	4
5	-	-	0.0	1.8	0.0	0.0	0.0	0.0	1.5						8.3			WATER HEATER	30/1	6
7	20/3	FAN POWERED BOX					1.6								8.3			WATER HEATER	30/1	8
9	-	-					1.6								8.3			WATER HEATER	30/1	10
11	-	-					1.6											SPARE	20/1	12
13	20/1	SPARE																SPARE	20/1	14
15	20/1	SPARE																SPARE	20/1	16
17	20/1	SPARE																SPARE	20/1	18
19		PREPARED SPACE																PREPARED SPACE		20
21		PREPARED SPACE																PREPARED SPACE		22
23		PREPARED SPACE																PREPARED SPACE		24
LIGHTING (KVA):		1.3	0.0	6.6	0.4	0.0	4.8	0.0	2.9		1.3	0.0	0.0	0.0	33.3	0.0	0.0	CONNECTED LOAD (KVA):		49.2
RECEPTACLES (KVA):		6.6																DEMAND LOAD (KVA):		49.2
MOTORS (KVA):		0.4							PHASE A	14	52.3									
A/C (KVA):		0.0							PHASE B	22	77.8							CONNECTED LOAD (AMPS):		59.2
HEATING (KVA):		38.1							PHASE C	13	47.7							DEMAND LOAD (AMPS):		59.2
KITCHEN (KVA):		0.0								KVA	AMPS									
MISCELLANEOUS (KVA):		2.9																AMPACITY REQUIRED:		59.6

NOTE: BREAKERS PROTECTING MULTI-WIRE BRANCH CIRCUITS SHALL BE EQUIPPED WITH A PAD-LOCK DEVICE SO THAT CIRCUITS CAN BE DISCONNECTED SIMULTANEOUSLY.

PANELBOARD SCHEDULE - 'LQ'

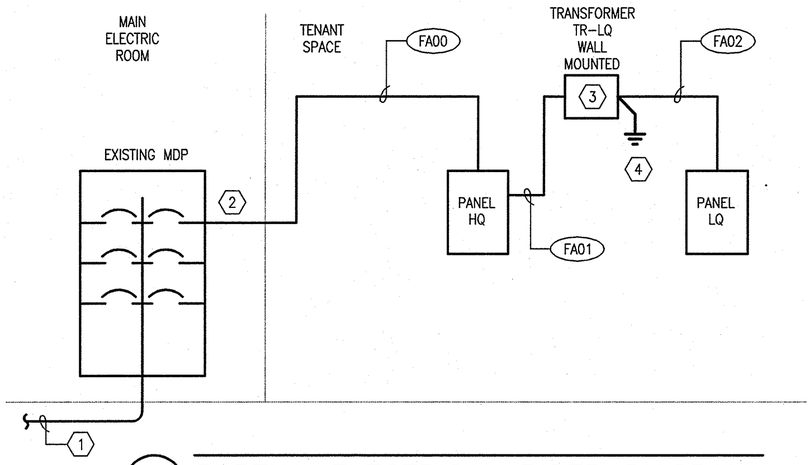
MAIN: 100A MCB | VOLTAGE: 208/120 | PHASE: 3 | WIRE: 4 | MOUNTING: SURFACE | AIC: 10K

CKT #	TRIP POLE	DESCRIPTION	LOAD (KVA) LTG	REC	MTR	A/C	HTG	KIT	MISC	PHASE A B C	LOAD (KVA) LTG	REC	MTR	A/C	HTG	KIT	MISC	DESCRIPTION	TRIP POLE	CKT #
1	20/1	TELEPHONE BOARD							0.6			0.5						RECEPTACLES	20/1	2
3	20/1	REFRIGERATOR							0.8			0.5						RECEPTACLES	20/1	4
5	20/1	COFFEE							1.5			0.7						RECEPTACLES	20/1	6
7	20/1	RECEPTACLES		0.9									0.4					TOILET EXHAUST FANS	20/1	8
9	20/1	RECEPTACLES		0.9														SPACE	20/1	10
11	20/1	RECEPTACLES		1.1														SPACE	20/1	12
13	20/1	REFRIGERATOR		0.8														SPACE	20/1	14
15	20/1	RECEPTACLES		1.1														SPACE	20/1	16
17	20/1	SPACE																SPACE	20/1	18
19	20/1	SPACE																SPACE	20/1	20
21	20/1	SPACE																SPACE	20/1	22
23	20/1	SPACE																SPACE	20/1	24
LIGHTING (KVA):		0.0	0.0	4.8	0.0	0.0	0.0	0.0	2.9		0.0	1.8	0.4	0.0	0.0	0.0	0.0	CONNECTED LOAD (KVA):		9.9
RECEPTACLES (KVA):		6.6																DEMAND LOAD (KVA):		9.9
MOTORS (KVA):		0.4							PHASE A	3	27.0									
A/C (KVA):		0.0							PHASE B	3	27.7							CONNECTED LOAD (AMPS):		27.4
HEATING (KVA):		0.0							PHASE C	3	27.5							DEMAND LOAD (AMPS):		27.4
KITCHEN (KVA):		0.0								KVA	AMPS									
MISCELLANEOUS (KVA):		2.9																AMPACITY REQUIRED:		27.4

NOTE: BREAKERS PROTECTING MULTI-WIRE BRANCH CIRCUITS SHALL BE EQUIPPED WITH A PAD-LOCK DEVICE SO THAT CIRCUITS CAN BE DISCONNECTED SIMULTANEOUSLY.

KEY NOTES:

1. EXISTING UNDERGROUND SERVICE TO EXISTING PANEL 'MDP'.
2. PROVIDE NEW 100 AMP, 3 POLE BREAKER IN EXISTING PANEL 'MDP' FOR POWER TO QUEST DIAGNOSTIC TENANT SPACE. REFERENCE FEEDER SCHEDULE THIS SHEET FOR ELECTRICAL REQUIREMENTS.
3. NEW WALL MOUNTED 30 KVA TRANSFORMER 480V–208/120 V, 3 PHASE INSTALLED IN QUEST DIAGNOSTIC TENANT SPACE. TRANSFORMER SHALL BE INSTALLED OVER NEW PANEL 'LQ'.
4. PROVIDE #8 COPPER GROUND FROM TRANSFORMER GROUND TERMINAL TO BUIDING STEEL.

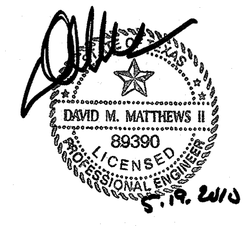


01 PARTIAL ELECTRICAL RISER DIAGRAM
SCALE: NONE

SCHEDULE OF FEEDERS & SERVICES

Feeder/Service Description: Designation	Equipment Served	Conductor Ampacity (Amps)	Copper or Aluminum	Number of Runs	Conductor Size: Phase Conductor	Neutral Conductor	Equipment Ground	Conduit Diameter (in)
F A 00	HQ	100	AL	1 set	3 # 1	1 # 1	1 # 6	1 1/2
F A 01	XFMR LQ	50	CU	1 set	3 # 8	-	1 # 10	3/4
F A 02	LQ	100	CU	1 set	3 # 3	1 # 3	1 # 8	1 1/4
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-

KEY: "CU" - COPPER "AL" - ALUMINUM
NOTES: COPPER OR ALUMINUM REFERS TO ALL CONDUCTORS (PHASE, NEUTRAL, AND GROUND)



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DATE	ISSUED FOR
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PROJECT 09049
SHEET E4
PLOT SCALE: