

BRANCH CIRCUIT WIRING SCHEDULE

120 OR 277 VOLT 1PH/2W/ CIRCUIT	
CIRCUIT BREAKER	CONDUCTOR
20A-1P	2#12 & 1#12 GND. -3/4" C.
30A-1P	2#10 & 1#10 GND. -3/4" C.
40A-1P	2#8 & 1#10 GND. -3/4" C.
50A-1P	2#6 & 1#10 GND. -3/4" C.
60A-1P	2#4 & 1#10 GND. -3/4" C.

208 VOLT 1PH/2W/ CIRCUIT	
CIRCUIT BREAKER	CONDUCTOR
20A-2P	2#12 & 1#12 GND. -3/4" C.
30A-2P	2#10 & 1#10 GND. -3/4" C.
40A-2P	2#8 & 1#10 GND. -3/4" C.
50A-2P	2#6 & 1#10 GND. -3/4" C.
60A-2P	2#4 & 1#10 GND. -3/4" C.

120/208 VOLT 1PH/3W/ CIRCUIT	
CIRCUIT BREAKER	CONDUCTOR
20A-2P	3#12 & 1#12 GND. -3/4" C.
30A-2P	3#10 & 1#10 GND. -3/4" C.
40A-2P	3#8 & 1#10 GND. -3/4" C.
50A-2P	3#6 & 1#10 GND. -3/4" C.
60A-2P	3#4 & 1#10 GND. -1" C.

208 OR 480 VOLT 3PH/3W/ CIRCUIT	
CIRCUIT BREAKER	CONDUCTOR
20A-3P	3#12 & 1#12 GND. -3/4" C.
30A-3P	3#10 & 1#10 GND. -3/4" C.
40A-3P	3#8 & 1#10 GND. -3/4" C.
50A-3P	3#6 & 1#10 GND. -3/4" C.
60A-3P	3#4 & 1#10 GND. -1" C.

120/208 OR 277/480 VOLT 3PH/4W/ CIRCUIT	
CIRCUIT BREAKER	CONDUCTOR
20A-3P	4#12 & 1#12 GND. -3/4" C.
30A-3P	4#10 & 1#10 GND. -3/4" C.
40A-3P	4#8 & 1#10 GND. -3/4" C.
50A-3P	4#6 & 1#10 GND. -1" C.
60A-3P	4#4 & 1#10 GND. -1-1/4" C.

NOTE: CONDUIT SIZES INDICATED ARE APPLICABLE TO FLEXIBLE CONDUIT WHERE ALLOWED.

ELECTRICAL PANEL SCHEDULE

NOTE	DESCRIPTION	POLE	TRIP AMPS	TOTAL VA	ABC	TOTAL VA	TRIP AMPS	POLE	DESCRIPTION	NOTE
	HAND DRYER	1	20	1620	1	1596	20	1	LIGHTS	
	RECEPTACLES	1	20	540	3	710	20	1	LIGHTS & FANS	
	RECEPTACLES	1	20	720	5	2000	30	1	SIGN J-BOX	
	SMOKE DET./GFI REC.	1	20	220	7	4248				
	WATER HEATER	1	30	2000	9	4248	45	3	RTU #15	
	CLG. (SHOW WIN) RECEP.	1	20	1600	11	4248				
	CLG. (SHOW WIN) RECEP.	1	20	1600	13	1428	20	1	LIGHTS	
	RECEPTACLES	1	20	540	15		20	1	SPARE	
	SPARE	1	20		17		20	1	SPARE	
	SPACE	1			19			1	SPACE	
		1			21			1		
		1			23			1		
		1			25			1		
		1			27			1		
		1			29			1		
		1			31			1		
		1			33			1		
		1			35			1		
		1			37			1		
		1			39			1		
		1			41			1		
					42					

TOTAL VA:	A: 10,712	WITHOUT SPARE	PANEL '16'		
	B: 8,038	WITHOUT SPARE	120/208	VOLTS	MCB 200 AMPS
	C: 8,568	WITHOUT SPARE	225	AMPS	3P + S/N PDLES
TOTAL CONNECTED LOAD	27,318	VA	WITHOUT SPARE	TOTAL CONNECTED LOAD	76 AMPS
				TOTAL DEMAND LOAD	79 AMPS

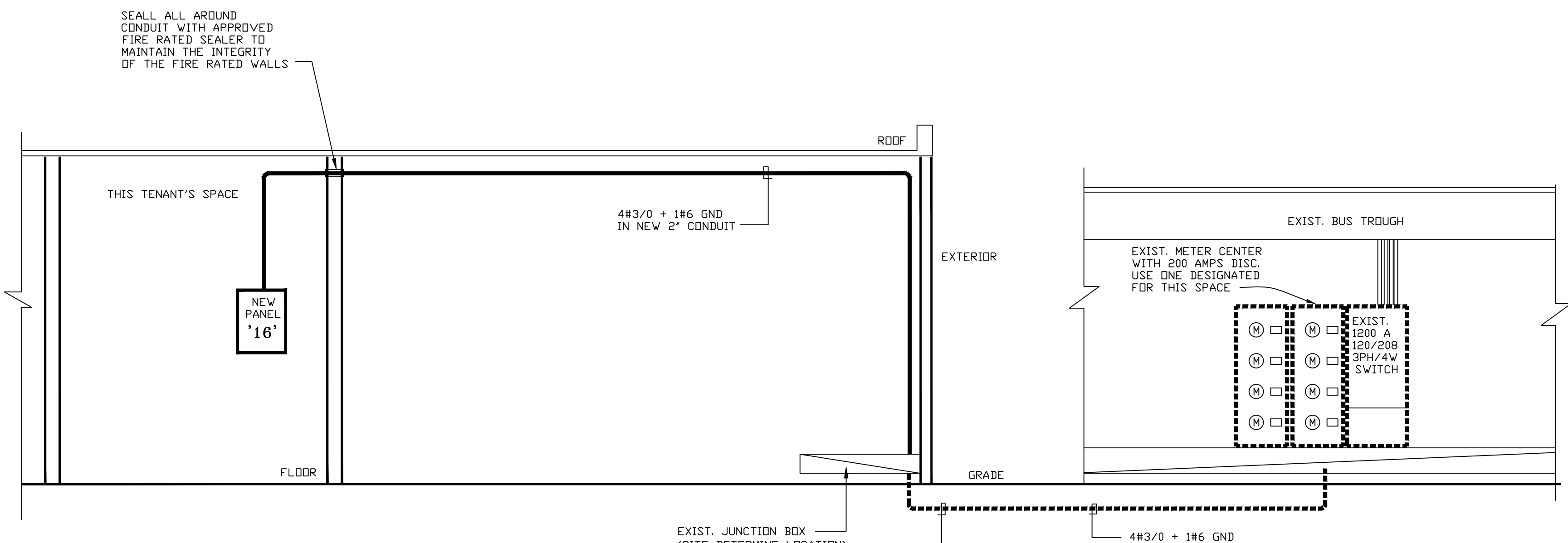
DEMAND FAC. FOR NON CONT. LOADS= 1.0
DEMAND FAC. FOR CONT. LOADS= 1.25
TOTAL CONNECTED LIGHT LOAD (INCL. EM LIGHTS), CONT. LOAD: 3.664 KW
LIGHTING DEMAND LOAD: 3664x1.25=4580 W = 4.580 KW

FIRE ALARM:

PROVIDE VISUAL AND AUDIBLE ALARM STATION AS REQUIRED BY THE BUILDING ALARM SYSTEM, LOCAL CODES AND AMERICAN WITH DISABILITY ACT SECTION 4.28.
SITE VISIT, PRIOR TO THE BIDDING TO DETERMINE THE EXISTING FIRE ALARM SYSTEM AND NEW WORK REQUIREMENTS.
PROVIDE PLANS AND SHOP DRAWINGS AS REQUIRED AND SUBMIT TO THE AUTHORITY FOR APPROVAL AND PERMIT PRIOR TO ANY FIRE ALARM WORK.
PROVIDE NEW FIRE ALARM PANEL AND OTHER DEVICES REQUIRED FOR A COMPLETE FIRE ALARM INSTALLATION. MAKE CONNECTION AND COORDINATE WITH DUCT SMOKE DETECTORS, FIRE AND SMOKE DAMPERS, AND OTHER DEVICES REQUIRED TO BE CONNECTED TO FIRE ALARM SYSTEM.
COMPLETE DESIGN, PREPARING PLANS AND SHOP DRAWINGS, OBTAINING REQUIRED PERMIT, ETC. IS THE RESPONSIBILITY OF THIS CONTRACTOR.

ELECTRICAL NOTES:

- ELECTRICAL WORK, MATERIAL, DEVICES AND EQUIPMENT SHALL BE IN STRICT ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE AND ALL LOCAL CODES AND ORDINANCES AS ENFORCED BY THE AUTHORITIES HAVING JURISDICTION.
- ALL ELECTRICAL EQUIPMENT SHALL BE NEW (UND) AND THOSE ON EXTERIOR OF BUILDING SHALL BE WEATHER PROOF.
- NEW ELECTRICAL WORK SHALL BE COORDINATED WITH THE EXISTING MAKE ALL NECESSARY ELECTRICAL CONNECTIONS AND EXTENSIONS, AND PROVIDE ALL MATERIAL AND DEVICES NEEDED FOR A COMPLETE AND OPERABLE SYSTEM EVEN IF NOT SHOWN.
- ELECTRICAL EQUIPMENT AND MATERIAL SHALL BEAR UL LABEL. MAINTAIN GROUND CONTINUITY THROUGHOUT. PROVIDE PROPER GROUNDING FOR ALL ELECTRICAL EQUIPMENT AND ITEMS AS REQUIRED BY CODE.
- ALL WIRES SHALL BE COPPER AND ALL DEVICES EXPOSED TO THE WEATHER OR NEAR A WATER SOURCE SHALL BE SUITABLE FOR THE PURPOSE. ELECTRICAL WORK PERFORMED IN CEILING SPACES USED AS RETURNED AIR PLENUM SHALL MEET THE REQUIREMENTS OF ELECTRICAL WORK IN PLENUM CEILING. ELECTRICAL RECEPTACLES LOCATED WITHIN SIX (6) FEET OF A SINK OR ANY OTHER WATER SOURCE SHALL BE GROUND FAULT INTERRUPTING RECEPTACLE.
- SUPPORT LIGHT FIXTURES FROM STRUCTURE ABOVE AS REQUIRED BY CODE, WITH MIN. TWO NO. 12 STEEL WIRES FROM OPPOSITE CORNERS EXCEPT CIRCULAR FIXTURES NOT MORE THAN 24" DIA. SHALL BE SUPPORTED WITH MIN. ONE NO. 12 STEEL WIRE.
- WHERE NEW TELEPHONE OUTLETS ARE INDICATED, PROVIDE OUTLET BOX WITH PULL STRING TO CEILING.
- PROVIDE ELECTRICAL CONNECTIONS FOR ALL NEW ELECTRICAL EQUIPMENT AND ITEMS PROPERLY FUSED AS REQUIRED BY EQUIPMENT'S AND ITEM'S ELECTRICAL LOAD.
PROVIDE POWER AND MAKE NECESSARY CONNECTIONS FOR SPRINKLER SYSTEM AND FIRE ALARM EQUIPMENT AS REQUIRED. COORDINATE WITH THE RESPECTIVE CONTRACTORS, PRIOR TO THE BIDDING.
CHECK EQUIPMENT MANUFACTURER'S REQUIREMENTS FOR CIRCUIT SIZES BEFORE ORDERING AND/OR INSTALLING CIRCUIT BREAKERS AND CONDUCTORS. NOTIFY THE ARCHITECT OF DIFFERENCES FROM MANUFACTURER'S REQUIREMENTS AND THOSE SHOWN OR SPECIFIED.
- SITE VISIT AND REVIEW THE BASE BUILDING PLANS PRIOR TO THE BIDDING, IN ORDER TO DETERMINE THE ELECTRICAL INFORMATION. SITE VERIFY INFORMATION GIVEN IN THESE DRAWINGS. THIS DETERMINATION SHALL BE MADE PRIOR TO THE BIDDING AND COST OF PROVIDING COMPLETE JOB SHALL BE REFLECTED IN THE BID.
REQUEST FOR ADDITIONAL COST FOR LACK OF KNOWLEDGE OF EXISTING CONDITION WILL NOT BE ACCEPTED.
- CIRCUIT BREAKERS USED FOR TURNING LIGHT FIXTURES OFF AND ON SHALL BE THE TYPE APPROVED FOR SWITCHING.
- NO PANEL BOARD OR SWITCHBOARD SHALL BE PLACED IMMEDIATELY UNDER PIPES, DUCTS OR ANY OTHER FOREIGN OBJECTS, FOR THE WIDTH AND THE DEPTH OF THE BOARDS, UNLESS THE OBJECTS ARE PART OF AND CONTRIBUTING TO THE BUILDING STRUCTURE.
- CONDUCTOR SIZES SHALL BE INCREASED BY ONE SIZE WHERE LENGTH EXCEEDS 75 FEET FOR 120 VOLT CIRCUIT OR 175 FEET FOR 277 VOLT CIRCUIT.
- OBTAIN ELECTRICAL PERMIT PRIOR TO COMMENCING ELECTRICAL WORK AND AS SOON AS POSSIBLE.
- ALL ELECTRICAL PANELS SHALL HAVE IDENTIFICATION PLATE WITH 1/4" LETTERING PLASTIC LAMINATE, IDENTIFYING EACH CIRCUIT, MOUNTED ON INSIDE OF DOOR. PANEL IDENTIFICATION SHALL REFLECT AS BUILT CONDITION. SUBMIT ONE COPY OF THE IDENTIFICATION PLATE TO THE ARCHITECT FOR THE RECORD. ALL DISCONNECTS SHALL BE MARKED TO INDICATE ITS PURPOSE.
- ALL RECEPTACLES AND LIGHT SWITCHES AND COVER PLATES SHALL BE BUILDING STANDARD, UNLESS NOTED OTHERWISE.
- SEE DRAWING A-0 FOR GENERAL NOTES AND RECEPTACLE MOUNTING HEIGHTS.
- CONTRACTOR SHALL CHECK MANUFACTURER'S SPECIFICATIONS AND, WHERE APPLICABLE, INSTALLATION INSTRUCTIONS PRIOR TO ROUGH-INS OR INSTALLING ANY ITEMS.
- THIS CONTRACTOR SHALL MAKE ALL SUBMITTALS REQUIREMENTS BEFORE ORDERING OR MANUFACTURING ANY ITEM.
- ALL WIRING SHALL BE MINIMUM #12 AWG WITH THHN/THWN TYPE INSULATION, EXCLUDING CONTROL WIRING.
- DO NOT RUN ELECTRICAL LINES THROUGH GREASE DUCT SHAFTS AND OTHER UN-APPROVED LOCATIONS.
- PROVIDE ELECTRICAL CONNECTIONS FOR SMOKE DAMPERS WHERE REQUIRED, COORDINATE WITH MECHANICAL CONTRACTOR FOR NUMBER AND LOCATIONS.
- ALL OUTLET AND SWITCH COVER PLATES SHALL BE BRUSHED ALUMINUM.



ELECTRICAL RISER DIAGRAMS

NOT TO SCALE

NOTE: ELECTRICAL EQUIPMENT SHALL BE GROUNDED TO THE MAIN COLD WATER PIPE IN THE DEMISED PREMISES AND THROUGH ELECTRICAL GROUNDING CONDUCTOR TO ELECTRICAL SERVICE GROUND (SITE DETERMINE EXACT GROUNDING LOCATIONS)

- NOTES:
- ALL EQUIPMENT SHALL BE NEW.
 - ELECTRICAL PANELS, SWITCHES AND OTHER ELECTRICAL EQUIPMENT SHALL BE "CUTLER-HAMMER" OR "GE".
 - SITE VERIFY ALL EXISTING INFORMATION PRIOR TO THE BIDDING.

CERTIFICATION:
I, ALI R ZARGARIAN, AIA, CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME AND I AM DULY LICENSED ARCHITECT UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 7627-A, EXPIRATION DATE: 5-16-2011

REVISIONS:

DRAWING TITLE:
**ELECTRICAL
PANEL
SCHEDULES,
NOTES**

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PROJECT NO.
092471

ISSUE DATES:
10-30-2009 PERMIT

APPROVED BY:
TENANT: _____
DATE: _____
LANDLORD: _____
DATE: _____

DRAWING NO.
E3