		ELECTRICAL DRAWING LIST	
1.1.2.7			
E-0.1	-	ELECTRICAL LEGENDS, DIAGRAM AND SCHEDULES	
E-1.1	-	ELECTRICAL SPECIFICATIONS	
E-1.2	-	ELECTRICAL SPECIFICATIONS AND NOTES	
E-2.1	_	ELECTRICAL MAIN FLOOR DEMOLITION PLAN	
E-2.2	-	ELECTRICAL MAIN FLOOR LIGHTING PLAN	
E-2.3	-	ELECTRICAL POWER & SYSTEMS PLANS	
E-2.4	-	ELECTRICAL MECHANICAL POWER PLANS	
E-2.5	-	ELECTRICAL BASEMENT CONDUIT ROUTING PLAN	
E-3.1	-	ELECTRICAL FOOD SERVICE EQUIPMENT SCHEDULE	

ELECTRICAL GENERAL SYMBOLS AND ABBREVIATIONS

JUNCTION BOX
JUNCTION BOX WITH BLANK FACEPLATE
CONTROL WIRING IN CONDUIT
EMERGENCY BRANCH CIRCUIT IN CONDUIT
BRANCH CIRCUIT IN CONDUIT CONCEALED BELOW FLOOR SLAB
BRANCH CIRCUIT IN FLEXIBLE CONDUIT
BRANCH CIRCUIT IN CONDUIT — HOT LEG, NEUTRAL AND EQUIPMENT GROUND, RESPECTIVELY
BRANCH CIRCUIT HOMERUN — PANEL AND SPACE AS INDICATED ON DRAWINGS
EXISTING EQUIPMENT/WIRE TO BE REMOVED
EXISTING EQUIPMENT/WIRE TO REMAIN
NEW EQUIPMENT/WIRE
ABOVE FINISHED FLOOR
EXISTING TO REMAIN
WEATHER-PROOF

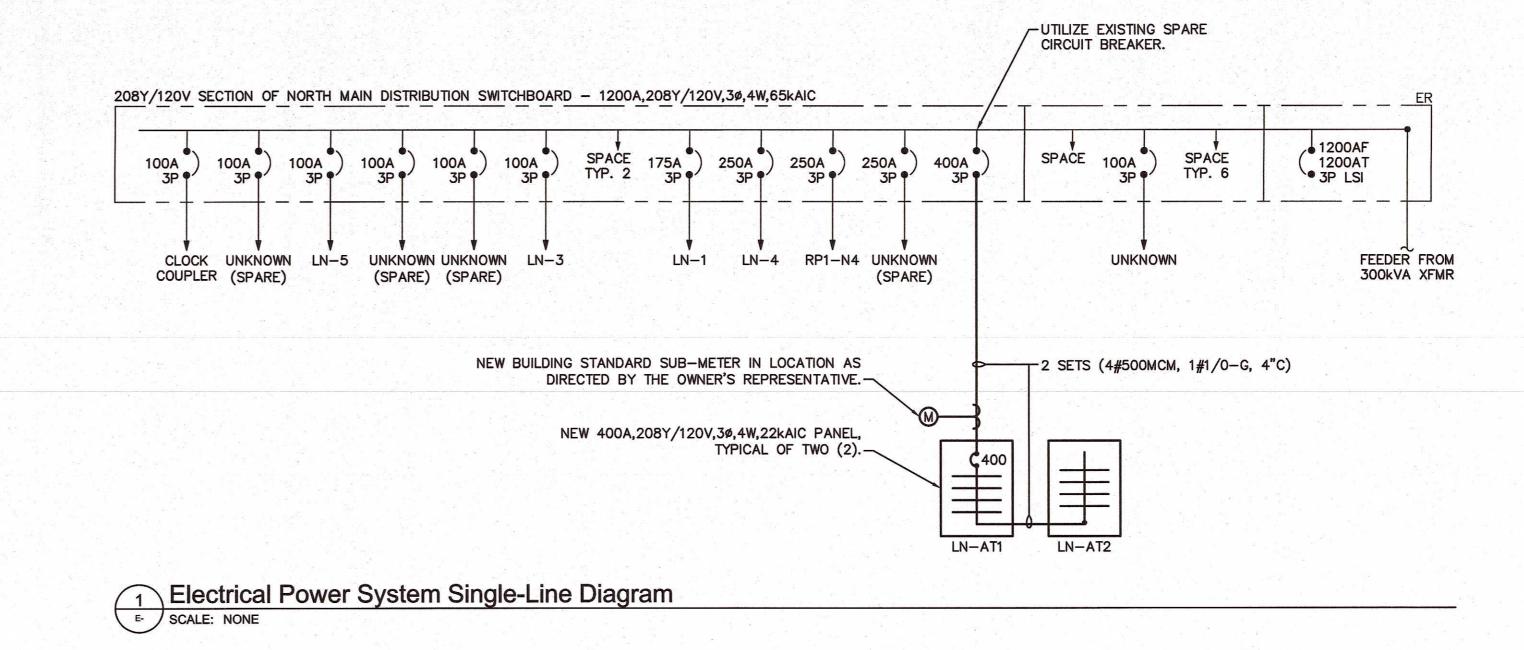
ELECTRICAL LIGHTING SYMBOLS AND ABBREVIATIONS

	STWIDGES AND ADDITE VIATIONS
	LIGHTING OUTLET, CEILING MOUNTED
	STRIP LIGHTING OUTLET, CHAIN-HUNG
	COVE LIGHTING OUTLET, SURFACE MOUNTED
7.5	LIGHTING OUTLET, TRACK MOUNTED
→	DECORATIVE LIGHTING OUTLET, PENDANT CEILING MOUNTED
+	LIGHTING OUTLET, RECESSED CEILING MOUNTED
Ю	EXIT SIGN, WALL MOUNTED - CHEVRONS AS INDICATED ON DRAWINGS
•	OCCUPANCY SENSOR WALL SWITCH - LOWERCASE LETTER INDICATES CONTROLLED LIGHT FIXTURES - DUAL-TECHNOLOGY TYPE UNLESS OTHERWISE NOTED
OS	OCCUPANCY SENSOR, CEILING MOUNTED - LOWERCASE LETTER INDICATES CONTROLLED LIGHT FIXTURES - DUAL-TECHNOLOGY TYPE UNLESS OTHERWISE NOTED
PP	POWER PACK FOR LOW-VOLTAGE OCCUPANCY SENSORS — LOWERCASE LETTER INDICATES CONTROLLED LIGHT FIXTURES AND OCCUPANCY SENSORS
ŧ	DIMMING SYSTEM ENTRY STATION - LOWERCASE LETTER INDICATES CONTROLLED LIGHT FIXTURES
	DIMMING SYSTEM CONTROL UNIT
EM	EGRESS LIGHTING/EXIT SIGN ON EMERGENCY CIRCUIT
NS	NON-SWITCHED

ELECTRICAL POWER & SYSTEMS SYMBOLS AND ABBREVIATIONS

Ю	SIMPLEX RECEPTACLE, WALL MOUNTED - TYPE AS INDICATED ON DRAWINGS	
H	DUPLEX RECEPTACLE, WALL MOUNTED	

- DUPLEX RECEPTACLE, FLUSH MOUNTED IN FLOOR
- QUADRAPLEX RECEPTACLE, WALL MOUNTED
- VOICE AND/OR DATA OUTLET, WALL MOUNTED HANDICAPPED PUSH BUTTON FOR MOTORIZED DOOR
- NONFUSED DISCONNECT SWITCH TYPE AND SIZE AS INDICATED ON
- FUSED DISCONNECT SWITCH TYPE AND SIZE AS INDICATED ON
- MANUAL MOTOR STARTER, TOGGLE-OPERATED WITH THERMAL OVERLOADS SIZED PER MANUFACTURER'S SPECIFICATIONS
- ELECTRIC MOTOR "#" INDICATES HORSEPOWER RATING AND "MD" INDICATES MOTORIZED DOOR
- CIRCUIT BREAKER
- METER WITH CURRENT TRANSFORMERS
- EXISTING PANELBOARD/LOADCENTER, SURFACE MOUNTED
- NEW PANELBOARD/LOADCENTER, SURFACE MOUNTED
- CR ACCESS-CONTROL CARD READER - BY OTHERS
- EM ACCESS-CONTROL ELECTROMAGNETIC LOCK - BY OTHERS
- EX ACCESS-CONTROL EXIT REQUEST - BY OTHERS
- **GFI** GROUND-FAULT CIRCUIT INTERRUPTING TYPE DEVICE



VOLTAGE: 208Y/120			PA	ANEL:	"L	N-AT1	"			MOU	UNTING: FLUSH			
CU BUS RATING: 400A		ENCL							ENCL	OSURE: NEMA 1				
MAIN: 400A MC	В	EQ. GND CU BUS: YES ISO. GND CU BUS: NO							LO	CATION: ARGO TEA ELEC				
AIC RATING: 22,000												FROM: NO. LVSWBD		
										045.04	A.\	_		
SERVES	LOAD (VA)		CIR.	BKR.		BKR.	CIR.	LOAD (VA)			SERVES			
02,1120	AØ	BØ	CØ	NO.	5,1,1			NO.	AØ	BØ	CØ			
WAREWASHER - DISHWASH ROOM	3328	1 1 2		1	2 /	+	1/20	2	1208		. 100	REC - DISHWASH RM FREEZER		
		3328		3	40	+++	1/20	4		1058	2 25	REC - DISHWASH RM REFRIGERATOR		
REC - FOOD PREP MERCHANDISER			1695	5	2 /	+++	2 /	6			1664	REC - FOOD PREP TOP COMBI-OVEN		
	1695	# % A_		7	/ 30	+++	20	1000	1664					
REC - FOOD PREP BARISTA STEAMER		1400		9	2	+++	2 /	10	4, 32	1664	A e yaq	REC - FOOD PREP BOTTOM COMBI-OVE		
		of set	1400	11	20	+++	20			1111	1664			
REC - FOOD PREP EXPRESSO MACHINE	1300) 1 to 8.	13	2	+++	2 /	14	1700			JBOX - FOOD PREP LT. BAKING OVEN		
		1300		15	20	+++	20			1700				
REC - FOOD PREP COFFEE MAKER			1997	17	2	+++	2/	18		endor ee	1700	JBOX - FOOD PREP RT. BAKING OVEN		
	1997			19	30	+	20		1700	1000		IDOV. FOOD DDED IOS MAKED		
REC - FOOD PREP HOT WATER		2028		21	2/2	1	2/00	22		1269	1269	JBOX - FOOD PREP ICE MAKER		
DISPENSER	740		2028	23	30	119	20	1 7 5	380		1269	REC - FOOD PREP SALAD REFRIG		
REC - FOOD PREP UC FREEZER	748	400		25 27	1/20	1	1/20	26 28	300	180		REC - FOOD PREP BACK COUNTER		
REC - FOOD PREP FRONT COUNTER REC - FOOD PREP AIR COMPRESSOR		180	440	29	1/20		1/20	30		100	955	REC - FOOD PREP UC REFRIGERATOR		
REC - FOOD PREP SIDE COUNTER	180		440	31	1/20		1/20	32	748		955	REC - FOOD PREP LT. UC REFRIG		
REC - BSMT STORAGE FREEZER	100	1208		33	1/20		1/20	34	740	748		REC - FOOD PREP RT. UC REFRIG		
REC - BSMT STORAGE PREEZER REC - BSMT STORAGE REFRIGERATOR		1200	1058	35	1/20	TIT	1/20	36	1211	140	1128	REC - FOOD PREP COFFEE GRINDER		
SPARE	-		1030	37	1/20		1/20	38			1120	SPARE		
SPARE				39	1/20		1/20	40				SPARE		
SPARE	7 7 2			41	1/20		1/20	42	la digisara		-	SPARE		
OI AILE	9248	9444	8618		NØ	BØ	_	Ø	7400	6619	8380	or nate		
	9240 X	9 444	Z		648	16063		998	7400 X	Υ	0300	SUBTOTALS		
		UB-FEE			247	12615	124	488		EL "LN-				
				29	895	28678	294	186				the state of the s		

VOLTAGE: 208Y/120	PANEL: "LN-AT2"									MO	OUNTING: FLUSH LOSURE: NEMA 1			
CU BUS RATING: 400A										ENCL				
MAIN: LUGS ON	ILY	EQ. GND CU BUS: YES									LO	CATION: ARGO TEA ELEC		
AIC RATING: 22,000		ISO. GND CU BUS: NO								FEC	FROM: "LN-AT1"			
050/50	\ L	OAD (VA)		CIR.			BKR.	CIR.	L	OAD (V	A)	SERVES		
SERVES	AØ			NO.	BKR.	* .	DNR.	NO.	AØ	BØ	CØ	SERVES		
EC - FOOD PREP MONITORS	720			1	1/20	****	1/20	2	384			JBOX - DOOR OPERATORS		
EC - FOOD PREPLT. POS		600	8.5	3	1/20	+++	1/20	4		360		REC - CUSTOMER AREA CONFERENCE		
EC - FOOD PREPRT. POS	4.	14	600	5	1/20	+++	1/20	6	-		1080	REC - CUSTOMER AREA BY COLUMN		
C - HOST TABLE, TEA DISPLAY	540			7	1/20	+++	1/20	8	1440			REC - CUSTOMER AREA SEATING		
EC - BACK RM, ROOF		540		9	1/20	+++	1/20	10	7 2	900		REC - CUSTOMER AREA WALLS		
EC - OFFICE			360	11	1/20	+++	1/20	12	= 2 - 1		360	REC - CUSTOMER AREA MONITORS		
S - RESTRMS, LOBBY, OFFICE	319			13	1/20	→	1/20	14	1450)42 j		JBOX - MEN HAND DRYER		
S - SERVING, FOOD PREP, BACK RM		392		15	1/20	+++	1/20	16		1450		JBOX - WOMEN HAND DRYER		
TS - CUSTOMER AREA		u stil ine Line Etc	1175	17	1/20	+++	1/20	18			540	REC - VESTIBULE, ELEV LOBBY		
PARE		- 1		19	1/20	 	1/20	20				SPARE		
PARE				21	1/20	+++	1/20	22				SPARE		
PARE				23	1/20	1	1/20	24				SPARE		
PARE		- 2		25	1/20	+++	1/20	26				SPARE		
PARE		1		27	1/20	+++	1/20	28	1 1			SPARE		
PARE		- 11		29	1/20	1	1/20	30				SPARE		
IXING BOXES, FAN COIL UNIT & FANS	554			31	1/15	+++	3 /	32				SPARE		
DOOR AIR CONDITIONERS		533		33	2 /	+++	/	34						
			533	35	15	+++	15	36	15. 4					
UTDOOR AIR CONDITIONER	4840		1 0	37	3	₩	3 /	38	3000			HOT WATER HEATER		
CCU-R-1"		4840		39		+++	/	40		3000				
			4840	41	60	+++	/ 35	42	- 2 7		3000			
	6973	6905	7508	Α	Ø	BØ	C	Ø	6274	5710	4980	SUBTOTALS		
	X	Υ	Z	13	247	12615	124	488	Х	Y	Z	1 SUBTOTALS		

No.	Description	Date
1	Issued for Review	04.15.2016
2	Issued for Value Engineering Revision	01.30.2017
3	Issued for Construction	02.20.2017
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It is a violation of the New York State Education Law to alter these documents in any way once the seal

and signature have been affixed by the Architect.

Electrical Legends, Diagram and Schedules

ISSUED FOR CONSTRUCTION

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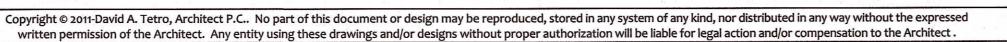
June. 7, 2016

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DAVID A. TETRO ARCHITECT P.C. AIA - LEED A.P. - NCARB

302 Lewis Avenue Yorktown Heights, NY 10598 914.962.3113 - tel. 914.962.3393 - fax





ELECTRICAL SPECIFICATIONS

A. GENERAL – 260100:

- 1. PROVIDE LABOR, MATERIALS, EQUIPMENT AND SERVICES FOR THE COMPLETION OF ELECTRICAL SYSTEMS AS SHOWN ON THESE DRAWINGS AND AS REQUIRED BY THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE (NEC), STATE AND LOCAL CODES, AND OSHA REGULATIONS. THE CONTRACTOR SHALL PAY ALL FEES; AND OBTAIN ALL CERTIFICATES AND INSPECTIONS.
- 2. NON-COMPLIANCE: SHOULD THE CONTRACTOR PERFORM ANY WORK THAT DOES NOT COMPLY WITH THE REQUIREMENTS OF APPLICABLE BUILDING CODES, STATE LAWS, LOCAL ORDINANCES AND INDUSTRY STANDARDS; HE SHALL BEAR ALL COSTS ARISING IN CORRECTING THE DEFICIENCIES.
- 3. IN CASE OF DIFFERENCE BETWEEN BUILDING CODES, STATE LAWS, LOCAL ORDINANCES, INDUSTRY STANDARDS, THESE SPECIFICATIONS AND CONTRACT DRAWINGS; THE MOST STRINGENT SHALL GOVERN. THE CONTRACTOR SHALL PROMPTLY NOTIFY THE OWNER IN WRITING OF ANY SUCH DIFFERENCE.
- 4. ALL EQUIPMENT SHALL BE NEW AND UNUSED: AND SHALL BE "UL" LISTED AND BEAR THE "UL" LABEL.
- 5. ALL EQUIPMENT SHALL BE INSTALLED IN A NEAT AND WORKMANLIKE MANNER. ALL MATERIALS SHALL BE OF THE BEST QUALITY FOR THE PURPOSE INTENDED. TRADE NAMES AND CATALOG NUMBERS ARE INTENDED TO INDICATE THIS QUALITY AND GRADE. OBTAIN WRITTEN APPROVAL FROM THE OWNER FOR ANY SUBSTITUTIONS MADE AFTER ACCEPTANCE OF SUBMITTAL FOR ANY ITEM.
- ON ACCEPTANCE OF CONTRACT. THE CONTRACTOR AGREES TO GUARANTEE ALL WORK AND EQUIPMENT FOR A PERIOD OF NOT LESS THAN ONE (1) YEAR FROM DATE OF INITIAL OPERATION. MANUFACTURED EQUIPMENT SHALL CARRY FULL PERIOD OF THE MANUFACTURER'S GUARANTEE AND SHALL NOT BE LESS THAN ONE (1) YEAR.
- 7. PRIOR TO SUBMISSION OF BID, THE CONTRACTOR SHALL VISIT THE JOB SITE TO ASCERTAIN ACTUAL FIELD CONDITIONS AS THEY RELATE TO THE WORK IN THESE SPECIFICATIONS AND DRAWINGS. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT AND OR ENGINEER AT THIS TIME. ALL ITEMS NOT RESOLVED PRIOR TO BID SHALL BE INCLUDED AS WRITTEN QUALIFICATIONS TO THE BID DOCUMENT. SUBMISSION OF BID SHALL BE EVIDENCE THAT VERIFICATION OF THE JOB SITE HAS BEEN PERFORMED.
- 8. THE GENERAL CONTRACTOR SHALL PERFORM ALL CUTTING NECESSARY FOR PROPER INSTALLATION OF ELECTRICAL WORK.
- OPENINGS AROUND ELECTRICAL PENETRATIONS THROUGH FIRE RESISTANCE RATED WALLS, PARTITIONS, FLOORS OR CEILINGS SHALL BE FIRE-STOPPED USING APPROVED METHODS. ACCEPTABLE MANUFACTURERS ARE HILTI AND 3M BUT MATERIAL MUST BE APPROVED BY THE LOCAL AUTHORITY HAVING JURISDICTION.
- 10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL ELECTRICAL INSTALLATIONS THAT ARE WITHIN CLOSE PROXIMITY OF OTHER TRADES. CONDUIT SHALL BE INSTALLED AS HIGH AS POSSIBLE ABOVE FINISHED CEILING TO AVOID CONFLICTS WITH OTHER TRADES. ALL WORK SHALL BE COORDINATED WITH THAT OF OTHER TRADES.
- 11. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL TEMPORARY LIGHTING AND POWER DURING CONSTRUCTION.
- 12. COVER LIGHT FIXTURES, EQUIPMENT, APPARATUS, ETC. TO PROTECT AGAINST CHEMICAL, WATER, DIRT OR MECHANICAL DAMAGE BEFORE AND DURING THE CONSTRUCTION PERIOD UNTIL THE FINAL ACCEPTANCE. ALL EQUIPMENT SHALL BE DELIVERED, PROPERLY PACKED AND STORED AT THE SITE UNTIL FINAL INSTALLATION.
- 13. THE CONTRACTOR SHALL REPAIR ANY DAMAGE DONE BY HIMSELF OR HIS WORKMEN. RESTORE TO ORIGINAL CONDITION ANY APPARATUS, EQUIPMENT OR SURFACE DAMAGED UNDER THIS SCOPE OF WORK PRIOR TO FINAL ACCEPTANCE, INCLUDING RESTORATION OF DAMAGES TO SHOP COATS OF PAINT.
- 14. IT IS THE INTENT OF THESE SPECIFICATIONS AND DRAWINGS TO REQUIRE AN INSTALLATION THAT IS COMPLETE IN EVERY RESPECT. IT IS NOT THE INTENT TO GIVE EVERY DETAIL IN THESE SPECIFICATIONS AND DRAWINGS. IF AN ITEM OF WORK IS SHOWN ON THE DRAWINGS, IT SHALL BE CONSIDERED SUFFICIENT FOR INCLUSION IN THE CONTRACT. THE CONTRACTOR SHALL FURNISH AND INSTALL ALL MATERIAL AND EQUIPMENT THAT IS NECESSARY FOR COMPLETE INSTALLATION WHETHER SPECIFICALLY MENTIONED OR NOT.
- 15. THE DRAWINGS FOR ELECTRICAL WORK UTILIZE SYMBOLS AND SCHEMATIC DIAGRAMS WHICH HAVE NO DIMENSIONAL SIGNIFICANCE. THE WORK SHALL BE INSTALLED TO FULFILL THE DIAGRAMMATICAL INTENT EXPRESSED ON THE DRAWINGS AND IN CONFORMITY WITH DIMENSIONS INDICATED ON FINAL WORKING DRAWINGS, FIELD LAYOUTS AND SHOP DRAWINGS FROM ALL TRADES.
- 16. PROVIDE TO THE OWNER, A COMPLETE SET OF REPRODUCIBLE AS-BUILT DRAWINGS ON AUTOCAD CLEARLY INDICATING ANY DEVIATIONS FROM THE DESIGN AS SHOWN ON THE DRAWINGS.
- 17. PROVIDE TO THE OWNER FOUR (4) COPIES OF THE OPERATING AND MAINTENANCE MANUALS WITH CATALOG INFORMATION ON ELECTRICAL EQUIPMENT INCLUDING, BUT NOT LIMITED TO: PANELBOARDS, VOICE & DATA SYSTEMS, SECURITY SYSTEMS AND FIRE ALARM SYSTEMS.
- 18. SHOP DRAWINGS AND OTHER INFORMATION REQUIRED: PRIOR TO PURCHASING ANY EQUIPMENT OR MATERIALS, A MANUFACTURER'S LIST SHALL BE SUBMITTED FOR REVIEW. PRIOR TO ASSEMBLING OR INSTALLING THE WORK, THE FOLLOWING SHALL BE SUBMITTED FOR REVIEW:
- 18.1. CATALOG INFORMATION SHEETS, FACTORY ASSEMBLY DRAWINGS AND FIELD INSTALLATION DRAWINGS AS REQUIRED FOR A COMPLETE EXPLANATION AND DESCRIPTION OF ALL ITEMS OR EQUIPMENT SPECIFIED IN THE FOLLOWING SECTIONS.
- 18.2. THE PURPOSE FOR THE REVIEW OF SHOP DRAWINGS IS TO MAINTAIN THE INTEGRITY OF THE DESIGN. UNLESS THE CONTRACTOR CLEARLY INDICATED IN WRITING AND ON HIS LETTERHEAD; ANY CHANGES, SUBSTITUTIONS, DELETIONS OR OTHER DIFFERENCES BETWEEN SUBMISSION AND CONTRACT DOCUMENTS, APPROVAL BY THE ENGINEER DOES NOT CONSTITUTE ACCEPTANCE.
- 18.3. NO SUBSTITUTIONS FOR ANY EQUIPMENT MATERIAL AND/OR MANUFACTURER SHALL BE PERMITTED WITHOUT A FORMAL WRITTEN SUBMITTAL INCLUDING AN EXPLANATION FOR SUBSTITUTION. A LIST OF ANY DEVIATIONS FROM SPECIFIED THE MODEL, SHOP DRAWINGS AND ASSOCIATED CREDIT. IT SHALL NOT BE ASSUMED THAT THE ENGINEER HAS READ TEXT OR REVIEWED ANY TECHNICAL DATA OF A MANUFACTURED ITEM AND ITS COMPONENTS EXCEPT WHERE THE VENDOR HAS SPECIFICALLY MENTIONED ALL DIFFERENCES BETWEEN THE SUBSTITUTED PRODUCT AND THE SPECIFIED MODEL.
 - 18.3.a. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY EQUIPMENT, WIRING, DEVICES, ETC. REQUIRED FOR THE PROPER INSTALLATION OF THE SUBSTITUTED PRODUCT. THIS INCLUDES MODIFICATIONS OF ANY KIND THAT ARE REQUIRED TO ALL ASSOCIATED SYSTEMS AFFECTED BY THE SUBSTITUTION. SUCH ITEMS SHALL BE PROVIDED AT THE
 - FULL EXPENSE OF THE CONTRACTOR WITH NO COSTS INCURRED TO THE OWNER. 18.3.b. ALL SUBSTITUTED PRODUCTS SHALL CONFORM TO PERFORMANCE AND SPATIAL REQUIREMENTS IN THESE SPECIFICATIONS AND DRAWINGS. ALL MODIFICATIONS OR REPLACEMENTS OF ANY PRODUCTS THAT DO NOT MEET THESE REQUIREMENTS SHALL BE MADE AT THE CONTRACTOR'S EXPENSE.
- 19. THE CONTRACTOR SHALL PROVIDE TESTS FOR EACH OF THE FOLLOWING:
- 19.1. PRIOR TO ENERGIZING THE ELECTRICAL SYSTEM, THE CONTRACTOR SHALL PROVIDE 600-VOLT INSULATION RESISTANCE TESTS FOR ALL DISTRIBUTION AND UTILIZATION EQUIPMENT. THE CONTRACTOR SHALL PROVIDE A SUITABLE AND STABLE SOURCE OF TEST POWER. THE INSULATION TEST SHALL BE A "MEGGER" TEST AT 500 VOLTS DC FOR 30 SECONDS. THE TEST SHALL BE CONDUCTED IN THE PRESENCE OF THE OWNER. A TEST REPORT SHALL BE SUBMITTED TO THE OWNER. THE MINIMUM INSULATION RESISTANCE SHALL BE 1.000.000 OHMS FOR #12AWG CONDUCTORS AND 250,000 OHMS FOR LARGER CONDUCTORS. CONDUCTORS TESTING BELOW THE MINIMUM INSULATION RESISTANCE SHALL BE REPLACED AND TESTED AGAIN.

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19.2. THE CONTRACTOR SHALL PERFORM A CONTINUITY TEST ON THE ENTIRE ELECTRICAL SYSTEM PRIOR TO ENERGIZING THE SYSTEM TO INSURE PROPER CABLE CONNECTIONS.

- 19.3. THE CONTRACTOR SHALL PERFORM CONNECTION TORQUE TESTS FOR ALL LARGER CONDUCTOR BOLTED CONNECTIONS USING A TORQUE WRENCH. TORQUE SHALL BE TO NATIONAL ELECTRICAL TESTING ASSOCIATION'S (NETA) STANDARDS.
- 19.4. THE CONTRACTOR SHALL PERFORM MECHANICAL OPERATION TESTS FOR ALL ELECTRICAL EQUIPMENT, SUCH AS DISCONNECT SWITCHES, CIRCUIT BREAKERS, ETC.; TO VERIFY THAT THE MECHANICAL PORTIONS OF THE DEVICE ARE FUNCTIONING.
- 19.5. AT THE COMPLETION OF THE LIFE-SAFETY SYSTEM INSTALLATION, THE CONTRACTOR SHALL TEST ALL FIRE ALARM AND EMERGENCY LIGHTING DEVICES. THE CONTRACTOR SHALL SUBMIT A REPORT TO THE ENGINEER VERIFYING THAT THE SYSTEMS ARE FULLY OPERATIONAL.
- B. ELECTRICAL DEMOLITION 260501:
 - PRIOR TO SUBMISSION OF BID, THE CONTRACTOR SHALL THOROUGHLY INSPECT THE WORK AREA. BASED ON THIS INSPECTION, THE CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIAL AND EQUIPMENT TO ACCOMPLISH DEMOLITION WORK.
 - AS PART OF DEMOLITION WORK, THE CONTRACTOR IS RESPONSIBLE FOR KEEPING EXISTING SYSTEMS (NOT SCHEDULED FOR REMOVAL) ENERGIZED. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY WIRING TO KEEP EXISTING DEVICES THAT SHARE THE SAME CIRCUITS AS DEMOLITION ITEMS ACTIVE. THIS INCLUDES RECEPTACLE AND LIGHTING CIRCUITS, FIRE ALARM DEVICES, ETC.
 - 3. EXTEND EXISTING INSTALLATIONS USING MATERIALS AND METHODS COMPATIBLE WITH THE EXISTING ELECTRICAL SYSTEMS.
 - 4. VERIFY THAT ALL ABANDONED WIRING AND EQUIPMENT SERVE ONLY ABANDONED FACILITIES.
 - 5. REMOVE ALL ABANDONED WIRING AND EXPOSED CONDUIT, INCLUDING THOSE ABANDONED ABOVE ACCESSIBLE CEILING FINISHES. CUT CONDUIT FLUSH WITH WALLS AND FLOORS: AND PATCH SURFACES.
 - 6. ALL EXISTING BRANCH CIRCUITS THAT ARE NOT TO BE REUSED SHALL BE REMOVED BACK TO SERVING PANELBOARD. CIRCUIT BREAKERS SHALL BE LABELED AS SPARE AND PLACED IN THE "OFF" POSITION. EXISTING CONDUIT SHALL REMAIN FROM PANELBOARD TO ABOVE ACCESSIBLE CEILING SPACE.
 - ASBESTOS PROCEDURE: THE CONTRACTOR SHALL, UPON CONTACTING MATERIAL SUSPECTED OF BEING ASBESTOS, NOTIFY THE OWNER'S REPRESENTATIVE IMMEDIATELY AND WORK AROUND SUSPECTED AREA.
- C. WIRES AND CABLES 260519:
 - 1. ALL CONDUCTORS SHALL BE SOFT 98% MINIMUM CONDUCTIVITY REFINED COPPER, INSULATION TYPE "THHN/THWN" RATED 600 VOLTS UNLESS INDICATED OTHERWISE.
- FACTORY COLOR CODE USING THE SAME CODE THROUGHOUT FOR CONDUCTORS AS FOLLOWS:
- 120/208 VOLTS BLACK, RED, BLUE AND WHITE NEUTRAL CONDUCTOR 277/480 VOLTS - BROWN, ORANGE, YELLOW AND GRAY NEUTRAL CONDUCTOR GREEN CONDUCTOR SHALL BE USED WHERE EQUIPMENT GROUND WIRE IS SPECIFIED.
- 3. MINIMUM CONDUCTOR SIZES SHALL BE #12AWG FOR POWER AND LIGHTING CIRCUITS, #10AWG FOR BRANCH CIRCUIT RUNS LONGER THAN 100 FEET AND #14AWG FOR CONTROL CIRCUITS UNLESS INDICATED OTHERWISE.
- 4. NO CONDUCTORS SHALL BE PULLED INTO ANY CONDUIT RUN BEFORE ALL CONDUIT JOINTS ARE TIGHT AND ENTIRE RUN IS SECURED IN PLACE. WHERE NECESSARY FOR WIRING INSTALLATION, PULLING COMPOUND SHALL BE POWDERED SOAPSTONE, MINERALLAC #100 OR APPROVED EQUAL.
- 5. TERMINATIONS OF #6AWG OR LARGER AT SWITCHBOARDS SHALL BE MADE WITH COMPRESSION TYPE CONNECTORS. TERMINATIONS OF #6AWG OR LARGER AT PANELBOARDS SHALL BE MADE WITH MECHANICAL LUGS.
- 6. JOINS AND TAPS OF #6AWG OR LARGER SHALL BE MADE WITH PRESSURE-INDENT TYPE CONNECTORS.
- 7. TAG ALL FEEDERS ROUTED THROUGH ELECTRICAL BOXES, GUTTER SPACES AND WIREWAYS
- 8. ALL WIRES #10AWG AND SMALLER SHALL BE SOLID COPPER. ALL WIRES #8AWG AND LARGER SHALL BE STRANDED COPPER.
- 9. METAL CLAD CABLE MAY BE USED FOR INDOOR LIGHTING AND RECEPTACLE BRANCH CIRCUITS WHEN WRITTEN APPROVAL IS GIVEN BY THE OWNER AND SHALL BE INSTALLED ONLY WHERE PERMITTED BY CODE. METAL CLAD CABLE SHALL BE LIGHTWEIGHT GALVANIZED STEEL INTERLOCKED ARMOR WITH CONDUCTORS AS SPECIFIED ABOVE. CABLE SHALL BE PROVIDED WITH SEPARATE EQUIPMENT
- 10. ACCEPTABLE MANUFACTURERS ARE ALLIED, GENERAL CABLE, PHELPS DODGE, ROME, SIMPLEX AND
- SOUTHWIRE FOR WIRES AND CABLES. -ROMEX IS NOT ALLOWED. -11. ACCEPTABLE MANUFACTURERS ARE AFC, ALLIED AND SOUTHWIRE FOR METAL CLAD CABLE.

GROUNDING CONDUCTOR. ARMOR SHALL NOT BE USED AS MEANS OF GROUNDING.

- D. GROUNDING AND GROUND-FAULT PROTECTION 260526:
- GROUNDING SHALL COMPLY WITH NEC ARTICLE 250.
- 2. EACH CIRCUIT SHALL HAVE AN EQUIPMENT GROUND CONDUCTOR. MULTI-WIRE CIRCUITS OF DIFFERENT PHASES MAY SHARE EQUIPMENT GROUND CONDUCTOR. THE EQUIPMENT GROUND CONDUCTOR SHALL NOT BE LESS THAN #12AWG OR AS SHOWN ON DRAWINGS. PROVIDE ELECTRICALLY CONTINUOUS. TIGHT GROUNDING CONNECTIONS FOR ALL WIRING DEVICES UNLESS NOTED OTHERWISE. WIRING DEVICE GROUNDING CONNECTIONS SHALL BE MADE VIA PIGTAIL FROM GROUND SCREW WITHIN DEVICE BACK BOX. INSTALL IN STRICT ACCORDANCE WITH NEC ARTICLE 300.13 (B).
- 3. EQUIPMENT GROUND CONDUCTORS SHALL BE INSTALLED IN CONDUIT OR SUITABLY PROTECTED FROM
- 4. CONDUITS ARE NOT TO BE USED AS MEANS OF GROUNDING.
- 5. ACCEPTABLE MANUFACTURERS ARE BURNDY, ERICO AND SQUARE D. E. SUPPORTING DEVICES - 260529:
- 1. SUPPORT OF NEW ELECTRICAL WORK SHALL BE IN ACCORDANCE WITH THE BEST INDUSTRY PRACTICES. DO NOT FASTEN SUPPORTS TO MECHANICAL EQUIPMENT, DUCTWORK, PIPING OR CONDUIT.
- 2. FURNISH AND INSTALL STEEL SUPPORT FRAMES, MEMBERS, HANGERS, BRACKETS, ETC. AS REQUIRED FOR PROPER INSTALLATION OF ELECTRICAL EQUIPMENT.
- SUPPORT FRAMES FOR NEW LIGHT FIXTURES INDEPENDENT OF OTHER SUPPORTS WHEREVER POSSIBLE.
- 4. SUPPORT FRAMES BOLTED TO FLOOR SLAB AND EXTENDING TO SLAB ABOVE SHALL BE PROVIDED AS REQUIRED FOR FREE STANDING EQUIPMENT OR WHERE WALLS ARE UNABLE TO SUPPORT EQUIPMENT
- 5. ALL CONDUITS UP TO 1 1/2" TRADE SIZE SHALL BE SUPPORTED BY CLAMPS OR PIPE STRAPS SECURED TO BLACK IRON CEILING SUPPORT SYSTEM, STRUCTURAL MEMBERS OR SLAB ABOVE AT INTERVALS NO GREATER THAN 7'-0" AND WITHIN 12" OF CONDUIT END. ALL CONDUITS 2" TRADE SIZE OR LARGER SHALL BE SUPPORTED BY APPROVED HANGERS AND INSERTS FROM SLAB ABOVE AT INTERVALS NO GREATER THAN 10'-0" AND WITHIN 18" OF CONDUIT END. SUPPORT FROM CEILING TEES, CROSS TEES OR WIRES IS PROHIBITED.
- F. RACEWAYS FOR ELECTRICAL SYSTEMS 260533:
 - 1. MATERIALS:

- 1.1. EMT: THIN WALL, HOT-DIPPED GALVANIZED STEEL (3/4" MINIMUM) CONDUIT TO BE USED FOR ALL WORK CONCEALED IN WALLS AND ABOVE FINISHED CEILINGS; AND FOR EXPOSED RUNS UP TO 1 1/2" TRADE SIZE. USE WITH STEEL COMPRESSION FITTINGS ONLY.
- 1.2. IMC: HOT-DIPPED GALVANIZED STEEL CONDUIT MAY BE USED FOR RISERS, PANELBOARD FEEDERS, THREE-PHASE MOTOR FEEDERS; AND FOR CONCEALED RUNS 2" TRADE SIZE AND LARGER. USE WITH THREADED FITTINGS ONLY.
- 1.3. RMC: HOT-DIPPED RIGID GALVANIZED STEEL UNLESS OTHERWISE NOTED; CONDUIT TO BE USED FOR ALL RISERS, PANELBOARD FEEDERS, THREE-PHASE MOTOR FEEDERS, CONDUIT INSTALLED IN SLAB; AND FOR EXPOSED RUNS 2" TRADE SIZE AND LARGER. CONDUIT SHALL BE GALVANIZED FOR CORROSION PROTECTION FOR CONDUIT INSTALLED IN CONCRETE SLAB. USE WITH THREADED FITTINGS ONLY.
- 1.4. FMC: INTERLOCKING COIL FORMED GALVANIZED STEEL STRIP (6' MAXIMUM LENGTH) CONDUIT TO BE USED FOR ALL LIGHT FIXTURE WHIPS AND FINAL CONNECTIONS TO TRANSFORMERS AND MOTORS. USE WITH INSULATED THROAT BITE-TITE CONNECTORS.
- 1.5. LFMC: HELICALLY WOUND GALVANIZED STEEL STRIP WITH MOISTURE SEALING JACKET (6' MAXIMUM LENGTH) - CONDUIT TO BE USED FOR ALL LOCATIONS WITHIN 6'-0" OF A WATER SOURCE OR WHERE EXPOSED TO DAMP ATMOSPHERES OR CORROSIVE MATERIALS. USE WITH INSULATED LIQUID-TIGHT THROAT BITE-TITE CONNECTORS.
- 2. KEEP CONDUITS AND OTHER OPENINGS CLOSED TO PREVENT ENTRY OF FOREIGN MATTER DURING CONSTRUCTION AND PRIOR TO WIRE OR CABLE INSTALLATION.
- 3. ALL CONDUIT IN FINISHED AREAS SHALL BE CONCEALED IN WALLS OR ABOVE FINISHED CEILING WHERE POSSIBLE. IN AREAS WHERE ANY CONDUIT CANNOT BE CONCEALED DUE TO FIELD CONDITIONS, THE GENERAL CONTRACTOR SHALL PAINT CONDUIT AS DIRECTED BY THE ARCHITECT.
- 4. ALL CONDUIT SHALL BE SECURELY FASTENED IN PLACE TO STRUCTURAL MEMBERS. DO NOT FASTEN TO PIPING, MECHANICAL EQUIPMENT, ETC. PROVIDE HANGERS AND/OR SUPPORTS AT EACH ELBOW AND WITHIN 12" OF EACH CONDUIT TERMINATION INTO A BOX, ENCLOSURE OR CABINET. PROVIDE APPROVED BEAM CLAMPS, PIPE STRAPS OR HEAVY IRON TIES WHERE CONDUITS PENETRATE FLOOR/CEILING SLABS.
- 5. ALL CONDUIT TERMINATING IN METAL ENCLOSURES SHALL BE PROVIDED WITH AN INSULATED BUSHING. PROVIDE "GROUNDING" TYPE BUSHING WHERE REQUIRED.
- 6. EXPANSION FITTINGS SHALL BE PROVIDED AT ALL EXPANSION JOINTS.
- 7. CONDUIT TO BE INSTALLED TO AVOID PROXIMITY WITH STEAM AND HOT WATER PIPING. MAINTAIN 12" BETWEEN CONDUIT AND PIPING WHEREVER POSSIBLE. AT NO POINT SHALL SPACING BE LESS THAN 4" BETWEEN CONDUIT AND PIPING INSULATION.
- 8. ACCEPTABLE MANUFACTURERS ARE ALLIED TUBE & CONDUIT, NATIONAL WIRE PRODUCTS, REPUBLIC AND TRIANGLE FOR CONDUITS AND ASSOCIATED FITTINGS.
- G. BOXES FOR ELECTRICAL SYSTEMS 260534:
- 1. OUTLET, JUNCTION AND PULL BOXES SHALL BE INDUSTRY STANDARD GAUGE, GALVANIZED SHEET STEEL. BOXES SHALL BE INSTALLED WHERE NECESSARY TO FULFILL DESIGN INTENT REGARDLESS OF INDICATIONS AS SHOWN ON DRAWINGS. ALL BOXES SHALL BE MADE ACCESSIBLE. PROVIDE ACCESS PANELS WHERE NECESSARY AND COORDINATE LOCATIONS WITH THE ARCHITECT
- 2. POKE-THRU BOXES IN SLAB SHALL BE FIRE-RATED GALVANIZED STEEL WITH AN INTUMESCENT FIRE-STOP MATERIAL TO MAINTAIN THE FIRE RATING OF FLOOR SLAB. SIZE AS REQUIRED FOR INSTALLATION OF ALL WIRING DEVICES AS SHOWN ON DRAWINGS. PROVIDE POKE—THRU WITH STAMPED STEEL JUNCTION BOXES FOR POWER AND VOICE/DATA REQUIRED CONNECTIONS AS WELL AS METALLIC FLANGE AND DEVICE COVER OF FINISH AS DIRECTED BY THE ARCHITECT.
- BARRIERS SHALL BE INDUSTRY STANDARD GAUGE, CONDUCTIVE MATERIAL WITH ANGLE IRON FRAMING SUPPORT AROUND ITS PERIMETER AND SHALL HAVE ADEQUATE THICKNESS (1/8" MINIMUM) AS REQUIRED FOR MECHANICAL STRENGTH NECESSARY TO FULLY PROTECT THE SYSTEM. BARRIERS SHALL BE PROVIDED BETWEEN SEPARATE SYSTEMS AND BETWEEN SEPARATE VOLTAGES.
- 4. NORMAL POWER AND EMERGENCY POWER SYSTEMS SHALL NOT BE INSTALLED IN COMMON ELECTRICAL BOXES AND SHALL BE KEPT SEPARATE.
- 5. PROVIDE ADEQUATE OUTLET BOXES FOR MOUNTING ALL DEVICES. DO NOT USE ROUND JUNCTION BOXES.
- 5.1. FURNISH AND INSTALL 4 11/16" SQUARE BY 1 1/2" OR 2 1/8" DEEP BACK BOX WITH EXTENSION RING FOR SWITCH AND RECEPTACLE OUTLETS. MULTI-GANG BACK BOXES SHALL BE APPROPRIATELY SIZED TO ACCOMMODATE INSTALLED WIRING DEVICES.
- 5.2. FURNISH AND INSTALL 4" OCTAGONAL BY 2 1/8" DEEP BACK BOX WITH 3/8" FIXTURE STUD FOR CEILING AND/OR SUSPENDED LIGHTING OUTLETS.
- 6. JUNCTION AND PULL BOXES SHALL HAVE REMOVABLE SCREW-ON COVER PLATES AND BE PROVIDED EVERY 100 FEET OF CONDUIT RUN AND WHERE NECESSARY TO FACILITATE THE INSTALLATION OF EQUIPMENT AND WIRING.
- 6.1. BOXES SERVING FIRE ALARM SYSTEM SHALL BE PAINTED RED IN COLOR AND LABELED "FIRE".
- 6.2. BOXES SERVING EMERGENCY SYSTEM SHALL BE PAINTED YELLOW IN COLOR.
- 6.3. BOXES SHALL BE SIZED TO COMPLY WITH MINIMUM BENDING RADIUS CRITERIA AS SPECIFIED BY
- 6.4. BOXES HAVING ANY SINGLE DIMENSION LARGER THAN 36" SHALL BE PROVIDED WITH CABLE SUPPORT RACKS. CABLE SUPPORT RACKS SHALL CONSIST OF 3/4" DIAMETER STEEL PIPING WITH FLANGED ENDS BOLTED TO FRAME OF BOX AND FITTED CONTINUOUS FIBER INSULATING SLEEVES ARRANGED IN TIERS. INSTALL RACKS WITHIN 36" OF BOX.
- 7. ACCEPTABLE MANUFACTURERS ARE APPLETON, CROUSE HINDS, O.Z./GEDNEY, RACO AND THOMAS & BETTS FOR OUTLET, JUNCTION AND PULL BOXES.
- 8. ACCEPTABLE MANUFACTURERS ARE FSR, HUBBELL, THOMAS & BETTS AND WREMOLD FOR POKE-THRU BOXES.
- 9. ACCEPTABLE MANUFACTURERS ARE BURNDY, CROUSE HINDS, NEPCO, O.Z./GEDNEY, RACO AND THOMAS & BETTS FOR BUSHINGS, CONNECTORS, COUPLINGS AND FITTINGS.
- VIBRATION AND SEISMIC CONTROLS FOR ELECTRICAL SYSTEMS 260548:
- PROVIDE SEISMIC RESTRAINTS, INCLUDING ALL STRUCTURAL STEEL MEMBERS, INSERTS, ANCHORS. WIRES, ETC. AS REQUIRED FOR ALL ELECTRICAL EQUIPMENT. ALL SEISMIC RESTRAINTS SHALL BE DESIGNED AND CONSTRUCTED IN ACCORDANCE WITH ALL LOCAL CODES, ORDINANCES AND THE LOCAL AUTHORITY HAVING JURISDICTION.
- ELECTRICAL IDENTIFICATION 260553:
- PROVIDE THERMOPLASTIC ENGRAVED NAMEPLATES FOR ALL ELECTRICAL EQUIPMENT INCLUDING, BUT NOT LIMITED TO: CIRCUIT BREAKERS, DISCONNECT SWITCHES, PANELBOARDS, ETC. AS REQUIRED BY THE NATIONAL ELECTRIC CODE. NAMEPLATES SHALL INDICATE EQUIPMENT NAME, VOLTAGE AND AMPERAGE.
- 2. NAMEPLATES FOR EQUIPMENT ON NORMAL POWER SHALL BE BLACK WITH WHITE LETTERING. NAMEPLATES FOR EQUIPMENT ON EMERGENCY POWER SHALL BE YELLOW WITH BLACK LETTERING.

- 3. PROVIDE "DANGER" LABELING FOR ALL ELECTRICAL EQUIPMENT, BOXES, ETC. AS REQUIRED BY NEC CODES. LABELING SHALL INCLUDE ALL REQUIREMENTS FOR ARC-FLASH AND FAULT-CURRENT IDENTIFICATION IN ACCORDANCE WITH NEC CODES.
- 4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MARKING ALL FIXED EQUIPMENT, RECEPTACLES AND SWITCHES WITH THE PANELBOARD NAME AND CIRCUIT BREAKER NUMBER SERVING EACH DEVICE WITH TYPEWRITTEN LABELS.
- J. LIGHTING CONTROL DEVICES 260923:
- 1. PROVIDE OCCUPANCY SENSOR TYPE DEVICES AS FOLLOWS:
 - 1.1. OCCUPANCY CEILING SENSORS: PROVIDE U.L. LISTED COMMERCIAL GRADE, ADAPTIVE DUAL TECHNOLOGY WITH 360° AND 2000 SQFT. MINIMUM COVERAGE OCCUPANCY SENSOR.
- 1.2. OCCUPANCY WALL SENSORS: PROVIDE U.L. LISTED COMMERCIAL GRADE, ADAPTIVE DUAL TECHNOLOGY WITH 180° AND 1200 SQFT. MINIMUM COVERAGE OCCUPANCY SENSOR.
- 1.3. OCCUPANCY SINGLE-RELAY WALL SWITCHES: PROVIDE U.L. LISTED COMMERCIAL GRADE, ADAPTIVE DUAL TECHNOLOGY WALL SWITCH WITH MANUAL OVERRIDE BUTTON ON SENSOR FACE AND 1000 SQFT. COVERAGE.
- 1.4. PROVIDE POWER PACKS AND RELAYS AS REQUIRED TO ACHIEVE DESIGN INTENT REGARDLESS OF INDICATIONS ON DRAWINGS. COORDINATE EXACT WIRING REQUIREMENTS WITH THE EQUIPMENT
- 1.5. ACCEPTABLE MANUFACTURERS ARE HUBBELL BUILDING AUTOMATION, LEVITON, LUTRON, PHILIPS LIGHTING CONTROLS AND SENSOR SWITCH.

K. MODULAR DIMMING CONTROL – 260936:

DIMMING SYSTEMS:

- 1.1. SINGLE-ROOM DIMMING SYSTEM: FURNISH AND INSTALL WALL CONTROL STATION RATED 208/120V,1ø,3W AT 20 AMPERES. PROVIDE WITH A MINIMUM OF SIX (6) ZONES AND FOUR (4) SCENES. CONTROL STATION SHALL BE CAPABLE OF COMMUNICATING WITH MULTIPLE CONTROL STATIONS.
- 2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THE MANUFACTURERS OF THE DIMMING SYSTEM AND LIGHT FIXTURE BALLASTS TO ENSURE COMPATIBILITY OF DEVICES.
- 3. INCLUDE ALL EQUIPMENT, WIRING, ETC. AS REQUIRED FOR A COMPLETE AND OPERATIONAL SYSTEM TO ACHIEVE THE DESIGN INTENT AS SHOWN ON DRAWINGS. COORDINATE EXACT REQUIREMENTS AND INSTALLATION WITH THE DIMMING SYSTEM EQUIPMENT SUPPLIER.
- 4. ACCEPTABLE MANUFACTURERS ARE CRESTRON, DIGITAL LIGHTING SYSTEMS AND LUTRON.

L. PANELBOARDS – 262416:

NEW PANELBOARDS

- 1.1. NEW PANELBOARDS SHALL BE RATED WITH MAIN CIRCUIT BREAKER OR MAIN LUGS ONLY AS SHOWN ON DRAWINGS. PANELBOARD BOX SHALL BE MADE OF SHEET STEEL "BENT-UP" RIVETED OR BOLTED TOGETHER WITH EXTERIOR ANGLE IRON FRAME MOUNTED FLUSH OR SURFACE AS INDICATED ON DRAWINGS AND SHALL HAVE "DOOR-WITHIN-DOOR" TYPE CODE GAUGE STEEL DOORS INCLUDING LOCK AND KEY FOR INNER DOOR. BOX AND DOORS SHALL BE PROVIDED WITH ONE COAT OF GRAY ENAMEL PAINT. PROVIDE WITH COPPER BUS BARS, 100% RATED SOLID COPPER NEUTRAL, COPPER EQUIPMENT GROUND, COPPER ISOLATED GROUND (WHERE SPECIFIED) AND BOLT-ON BRANCH CIRCUIT BREAKERS. AIC RATING AND AVAILABLE SPACE AS SHOWN ON DRAWINGS.
 - ACCEPTABLE MANUFACTURERS ARE CUTLER-HAMMER "PRL1" SERIES, GENERAL ELECTRIC "AQ" SERIES, SIEMENS "P1" SERIES AND SQUARE D "NQ" SERIES.
- 1.2. NEW PANELBOARDS TO BE MOUNTED 72" AFF TO TOP OF BOX UNLESS NOTED OTHERWISE. PROVIDE WITH TYPEWRITTEN DIRECTORY LOCATED ON INSIDE OF DOOR BEHIND TRANSLUCENT
- 1.3. NEW PANELBOARD MAIN CIRCUIT BREAKERS SHALL BE INDIVIDUALLY MOUNTED AND SEPARATE FROM BRANCH CIRCUIT BREAKERS. BRANCH-MOUNTED MAIN CIRCUIT BREAKERS SHALL NOT BE PERMITTED.
- 2. EXISTING PANELBOARDS/LOADCENTERS: CLEAN EXPOSED SURFACES AND CHECK TIGHTNESS OF ALL ELECTRICAL CONNECTIONS. REPLACE ALL DAMAGED CIRCUIT BREAKERS AND PROVIDE NEW CIRCUIT BREAKERS WHERE NECESSARY. NEW CIRCUIT BREAKERS SHALL MATCH EXISTING PANELBOARD/LOADCENTER IN MANUFACTURER AND AIC RATING. PROVIDE CLOSURE PLATES FOR VACANT POSITIONS. PROVIDE NEW UPDATED TYPEWRITTEN DIRECTORY SHOWING REVISED CIRCUITING ARRANGEMENT. THE CONTRACTOR SHALL VERIFY ALL CONDUIT AND FEEDER SIZES ASSOCIATED WITH PANELBOARDS/LOADCENTERS. ALL CODE DISCREPANCIES SHALL BE BROUGHT TO ATTENTION OF THE ARCHITECT AND THE ENGINEER.

M. ELECTRICITY METERING - 262713:

- NEW METERS SHALL BE SINGLE UNIT WITH TWO INPUTS AND TWO (2) SETS OF CT'S RATED FOR THREE-PHASE, FOUR-WIRE WITH VOLTAGE AND AMPERES AS REQUIRED. METER SHALL HAVE DIRECT-READ LCD DISPLAY WITH MULTIPLIER FOR ACCUMULATIVE KWH AND "REAL-TIME" KW LOAD. DEMAND OPTION TO DISPLAY KW/DEMAND AND KW PEAK WITH DATE AND TIME STAMP. INCLUDE ANY EQUIPMENT NECESSARY FOR PROPER OPERATION. PROVIDE COMMUNICATION CABLE FROM METER TO MONITOR STATION AS DIRECTED BY THE BUILDING REPRESENTATIVE, IF APPLICABLE.
- 1.1. ACCEPTABLE MANUFACTURERS ARE E-MON D-MON, ELECTRO INDUSTRIES/GAUGE TECH, OHIO SEMITRONICS AND SQUARE D.

(CONTINUED ON DRAWING E.O2)

Revisions & Issues No. Description Issued for Review 04.15.2016 01.30.2017 Issued for Value Engineering Revision Issued for Construction 02.20.2017

Do not scale drawings. Each Contractor shall be responsible for all field measurements

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DAVID A. TETRO ARCHITECT P.C. AIA - LEED A.P. - NCARB

Electrical Specifications

ISSUED FOR CONSTRUCTION

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ELECTRICAL SPECIFICATIONS

- N. WIRING DEVICES 262726:
 - WIRING DEVICES SHALL BE SPECIFICATION GRADE AND AS FOLLOWS:
 - 1.1. RECEPTACLES: PROVIDE UL498 LISTED COMMERCIAL GRADE, 20A/125V NEMA 5-20R, DECORATIVE ARCHITECTURAL STYLE RECEPTACLES UNLESS INDICATED OTHERWISE.
 - GROUND-FAULT CIRCUIT INTERRUPTING TYPE RECEPTACLES: PROVIDE UL498 LISTED COMMERCIAL GRADE, 20A/125V NEMA 5-20R, DECORATIVE ARCHITECTURAL STYLE GFCI TYPE RECEPTACLE WITH SELF-TEST CIRCUITRY.
 - 1.3. SINGLE-POLE SWITCHES: PROVIDE U.L. LISTED COMMERCIAL GRADE, 20AMP, 120-277VAC SINGLE-POLE, TOGGLE-OPERATED, QUIET-TYPE, DECORATIVE ROCKER STYLE WALL SWITCH.
 - 1.4. FACEPLATES: PROVIDE THERMOPLASTIC FACEPLATES WITH COLOR AND STYLE AS DIRECTED BY THE ARCHITECT IN ALL PUBLIC SPACES. PROVIDE STAINLESS STEEL FACEPLATES IN MECHANICAL AND ELECTRICAL SPACES. FACEPLATES SHALL BE INSTALLED FLAT AGAINST WALL NO GAPS WILL BE ALLOWED.
 - 1.5. ACCEPTABLE MANUFACTURERS FOR RECEPTACLES AND SWITCHES ARE COOPER ARROW—HART DECORATOR SERIES, HUBBELL STYLE LINE DECORATOR SERIES, LEVITON DECORA SERIES, LUTRON ARCHITECTURAL SERIES AND PASS & SEYMOUR DECORATOR SERIES.
 - 2. ALL RECEPTACLE OUTLETS INSTALLED WITHIN 6'-0" OF SINKS OR OTHER SOURCES OF WATER SHALL BE GROUND-FAULT CIRCUIT INTERRUPTING TYPE.
 - 3. ALL RECEPTACLE OUTLETS SHALL BE INSTALLED WITH GROUNDING PIN LOCATED IN THE TOP POSITION.
 - 4. ALL SWITCHES SHALL BE INSTALLED WITH "OFF" IN THE BOTTOM POSITION.
 - 5. ALL EXTERIOR WIRING DEVICES SHALL BE PROVIDED WITH A WEATHER-PROOF "WHILE-IN-USE" COVER.
 - 6. ALL WIRING DEVICES SHALL BE INSTALLED PLUMB, SQUARE AND TRUE. WIRING DEVICES INSTALLED IN ADJACENT LOCATIONS SHALL BE ALIGNED.
 - 7. WIRING DEVICES INSTALLED AT A SINGLE LOCATION SHALL BE INSTALLED IN A MULTI-GANG BACK BOX WITH SUITABLE FACEPLATE WHEREVER POSSIBLE. PROVIDE BARRIERS AS REQUIRED BY CODE.
 - 8. WIRING DEVICES SHALL BE COLORED AS DIRECTED BY THE ARCHITECT UNLESS NOTED OTHERWISE.
- FUSES 262813:
 - 1. FUSES SHALL BE CURRENT-LIMITING TYPE WITH AN INTERRUPTING CURRENT CAPACITY OF 200,000RMS AMPERES AND A CONTINUOUS CURRENT RATING AS SHOWN ON DRAWINGS.
 - 2. FUSES SHALL HAVE AN AVERAGE MELTING TIME-CURRENT CHARACTERISTIC TO MEET UNDERWRITERS' LABORATORIES REQUIREMENTS OF "CLASS K" FOR 0-600 AMP FUSES AND "CLASS L" FOR OVER 600
 - 3. ACCEPTABLE MANUFACTURERS ARE BUSSMAN, GOULD SHAWMUTT AND GENERAL ELECTRIC.
- P. ENCLOSED SWITCHES AND CIRCUIT BREAKERS 262816:
 - . DISCONNECT SWITCHES SHALL BE "QUICK-MAKE", "QUICK-BREAK" HEAVY DUTY WITH VOLTAGE RATINGS OF 600 VOLTS FOR 480/277-VOLT SYSTEMS AND 240 VOLTS FOR 208/120-VOLT SYSTEMS. PROVIDE SINGLE OR THREE PHASE WITH AMPERE RATINGS AS SHOWN ON DRAWINGS. U.L. 98 LISTED. NEMA KS1. ENCLOSURES SHALL BE NEMA 1 FOR INDOOR AND NEMA 3R FOR OUTDOOR INSTALLATIONS.
 - ACCEPTABLE MANUFACTURERS ARE CUTLER-HAMMER, GENERAL ELECTRIC, SIEMENS AND SQUARE
 - 2. CIRCUIT BREAKERS SHALL BE THERMAL-MAGNETIC, "QUICK-MAKE, QUICK-BREAK" TYPE WITH NONWELDING CONTACTS COMPENSATED FOR AMBIENT TEMPERATURES. PROVIDE WITH ELECTRONIC, FIELD ADJUSTABLE, LSI TRIP FUNCTIONS FOR CIRCUIT BREAKERS RATED 400 AMPERES AND ABOVE. ALL CIRCUIT BREAKERS SERVING MECHANICAL EQUIPMENT SHALL BE "HACR" RATED.
 - 2.1. WHERE INSTALLED IN EXISTING PANELBOARDS, CIRCUIT BREAKERS SHALL MATCH THE EXISTING PANELBOARD IN MANUFACTURER AND AIC RATING.
 - 2.2. FOR STAND-ALONE APPLICATIONS, CIRCUIT BREAKERS SHALL BE IN A NEMA 1 ENCLOSURE. PROVIDE MINIMUM SHORT CIRCUIT RATINGS OF 22,000 AMPERES SYMMETRICAL FOR 120/280-VOLT SYSTEMS AND 35,000 AMPERES SYMMETRICAL FOR 277/480-VOLT SYSTEMS UNLESS NOTED OTHERWISE.
 - 2.2.a. ACCEPTABLE MANUFACTURERS ARE CUTLER-HAMMER, GENERAL ELECTRIC, SIEMENS AND SQUARE D.
- Q. LIGHT FIXTURES 265100:
 - 1. FURNISH, INSTALL, SET AND LAMP NEW LIGHT FIXTURES. INCLUDE ALL NECESSARY SUPPORTS AND HANGERS WHERE REQUIRED. LIGHT FIXTURES SHALL BE AS SPECIFIED ON ARCHITECTURAL LIGHT FIXTURE SCHEDULE UNLESS OTHERWISE INDICATED. LIGHT FIXTURES SHALL BE LISTED AND LABELED BY AN APPROVED NATIONALLY RECOGNIZED TESTING LABORATORY (NRTL). ALL LAY-IN TYPE LUMINARIES SHALL BE SECURED WITH "EARTHQUAKE CLIPS".
 - 2. PROVIDE LAMPS SUITABLE FOR THE SPECIFIED LIGHT FIXTURE AND AS INDICATED ON LIGHT FIXTURE SCHEDULE. ALL TYPES OF FLUORESCENT LAMPS THAT ARE TO BE USED FOR DIMMING PURPOSES SHALL BE "BURNED-IN" FOR A PERIOD OF TIME AS REQUIRED BY THE MANUFACTURER BUT NO LESS THAN 100 HOURS. LAMPS TO BE GENERAL ELECTRIC, PHILLIPS OR SYLVANIA.
 - 2.1. FLUORESCENT LAMPS SHALL BE WARM WHITE, RAPID START WITH A LOW MERCURY CONTENT.
 - 2.2. COMPACT FLUORESCENT LAMPS SHALL BE WARM WHITE, INSTANT START WITH A LOW MERCURY
 - 2.3. LED LAMPS SHALL BE WARM WHITE. PROVIDE LED LAMP DRIVERS AS DIRECTED BY THE LED MANUFACTURER TO MEET THE DESIGN INTENT AS SHOWN ON THE DRAWINGS.
 - 3. PROVIDE FLUORESCENT BALLASTS IN EACH LIGHT FIXTURE RATED AT VOLTAGE AS REQUIRED TO ACHIEVE DESIGN INTENT AS SHOWN ON DRAWINGS.
 - 3.1. NON-DIMMING BALLASTS TO BE ADVANCE, OSRAM-SYLVANIA OR UNIVERSAL. BALLASTS PROVIDED WITH LIGHT FIXTURE BY THE LIGHT FIXTURE MANUFACTURER ARE ACCEPTABLE IF BALLAST COMPLY WITH THE FOLLOWING.
 - 3.1.a. FLUORESCENT BALLASTS SHALL BE ELECTRONIC HIGH-FREQUENCY, FULL OUTPUT, DUAL
 - VOLTAGE WITH CLASS "A" SOUND RATING AND 10% LOW HARMONIC DISTORTION. 3.2. DIMMING BALLASTS TO BE ADVANCE MARK X, LUTRON HI-LUME, OSRAM-SYLVANIA POWERSENSE OR UNIVERSAL SUPERDIM.
 - 3.1.a. FLUORESCENT BALLASTS SHALL BE ELECTRONIC PROGRAMMED START, RELATIVE LIGHT OUTPUT OF 100-5 PERCENT FOR COMPACT FLUORESCENT LAMPS AND DIMMING WITH A
 - CLASS "A" SOUND RATING AND 10% LOW HARMONIC DISTORTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING BALLAST AND CONTROL MANUFACTURERS TO ENSURE COMPATIBILITY OF DEVICES.
 - 4. EMERGENCY BATTERY BACK-UP BALLASTS AND PACKS TO PROVIDE A MINIMUM OF 1100 LUMENS FOR 90 MINUTES AND SHALL HAVE A SELF-TEST SWITCH AND INDICATOR LAMP THAT IS EASILY VISIBLE.
 - 4.1. ACCEPTABLE MANUFACTURERS ARE BODINE, IOTA OR AS PROVIDED BY THE LIGHT FIXTURE MANUFACTURER.

Revisions & Issues

Do not scale drawings. Each Contractor shall be responsible for all field measurements.

- 5. CONNECTIONS TO LIGHT FIXTURES SHALL BE MADE FROM JUNCTION BOXES VIA FLEXIBLE WHIP (6'-0" MAXIMUM LENGTH). LIGHTING SHALL NOT BE "THRU-WIRED".
- R. VOICE AND DATA SYSTEMS 270740:
 - REFER TO ARCHITECTURAL PLANS FOR DESCRIPTION AND SCOPE OF WORK. THE LOCATION OF VOICE AND DATA OUTLETS ARE SHOWN ON THE ARCHITECT'S POWER/VOICE/DATA PLAN. EXACT LOCATIONS TO BE COORDINATED WITH THE ARCHITECT.
- 2. BACK BOX AND RACEWAY REQUIREMENTS:
- 2.1. FURNISH AND INSTALL 4 11/16" SQUARE BY 2 1/8" DEEP BACK BOX WITH SINGLE GANG EXTENSION RING AT EACH OUTLET LOCATION.
- 2.2. FURNISH AND INSTALL 1" EMT CONDUIT AND SUITABLE PULL WIRE FROM BACK BOX TO ABOVE ACCESSIBLE CORRIDOR CEILING WITHIN 2'-0" OF A CABLE SUPPORT. PROVIDE WITH RUBBER GROMMET AT CONDUIT END.
- S. ACCESS CONTROL SECURITY SYSTEM 281300:
 - 1. REFER TO ARCHITECTURAL PLANS FOR DESCRIPTION AND SCOPE OF WORK. THE LOCATION OF SECURITY DEVICES ARE SHOWN ON THE ARCHITECT'S POWER/VOICE/DATA PLAN. EXACT LOCATIONS TO BE COORDINATED WITH THE ARCHITECT.
 - 2. COORDINATE INSTALLATION WITH THE SECURITY SYSTEM SUPPLIER. THE CONTRACTOR SHALL REFER TO THE SECURITY SYSTEM SUPPLIER WIRING DIAGRAMS AND SPECIFICATIONS FOR EXACT REQUIREMENTS.
- BACK BOX AND RACEWAY REQUIREMENTS:
 - 3.1. FURNISH AND INSTALL BACK BOX WITH EXTENSION RING SIZED PER THE SECURITY SYSTEM SUPPLIER REQUIREMENTS.
 - 3.2. FURNISH AND INSTALL 3/4" EMT CONDUIT AND SUITABLE PULL WIRE FROM BACK BOX TO ABOVE ACCESSIBLE CORRIDOR CEILING WITHIN 2'-0" OF A CABLE SUPPORT. PROVIDE WITH RUBBER GROMMET AT CONDUIT END.
- T. FIRE ALARM SYSTEM 283111:
 - 1. THE CONTRACTOR SHALL FURNISH AND INSTALL STANDARD BUILDING FIRE ALARM DEVICES WHERE SHOWN ON DRAWINGS. NEW FIRE ALARM WIRING FOR DEVICES, MODULES AND EQUIPMENT SHALL BE ROUTED TO THE EXISTING BUILDING MAIN FIRE ALARM CONTROL PANEL.
 - 2. FINAL CONNECTIONS AND TESTING OF THE SYSTEM SHALL BE PERFORMED BY THE BUILDING FIRE ALARM CONTRACTOR. THE CONTRACTOR SHALL OBTAIN AND PAY THE SERVICES OF THE FIRE ALARM CONTRACTOR TO PERFORM THIS WORK.
 - 3. PRIOR TO BID, THE CONTRACTOR SHALL COORDINATE REQUIREMENTS WITH THE BUILDING FIRE ALARM CONTRACTOR AND INCLUDE IN HIS PRICE ALL WORK, EQUIPMENT, INTERCONNECTIONS AND PROGRAMMING THAT IS REQUIRED FOR A COMPLETE AND OPERATIONAL SYSTEM.
 - 4. ALL FIRE ALARM EQUIPMENT, DEVICES, CABLING, ETC. NOT SCHEDULED FOR REMOVAL SHALL BE MAINTAINED AND KEPT IN OPERATION AT ALL TIMES.
 - REFER TO FIRE ALARM DRAWINGS FOR ADDITIONAL INFORMATION AND REQUIREMENTS.

ELECTRICAL GENERAL NOTES

- A. DEMOLITION WORK:
- 1. ALL SALVAGEABLE ITEMS SUCH AS LIGHT FIXTURES, ETC. THAT ARE NOT TO BE REUSED SHALL BE TURNED OVER TO THE OWNER.
- 2. THE CONTRACTOR SHALL COORDINATE WITH THE OWNER FOR ACCESS TO WORK AREAS, CONSTRUCTION SCHEDULING AND SERVICE INTERRUPTIONS.
- 3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DEMOLITION IN AREAS OF RENOVATION. ALL LIGHT FIXTURES, WRING DEVICES, WIRE AND CONDUIT THAT ARE TO BE REMOVED SHALL BE STORED AS DIRECTED BY THE OWNER OR RELOCATED AS SHOWN ON NEW FLOOR PLANS. APPROPRIATE MEASURES SHALL BE TAKEN TO ASSURE CONTINUITY OF EXISTING CIRCUITS WHERE REQUIRED. ALL OUTAGES WHICH MAY RESULT SHALL BE COORDINATED WITH THE OWNER PRIOR TO THE WORK.
- 4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR UPDATING SCHEDULES IN ALL ELECTRICAL PANELS THAT ARE AFFECTED BY THIS WORK. THE UPDATED SCHEDULES ARE TO BE TYPEWRITTEN.
- 5. REFER TO ARCHITECTURAL PLANS FOR GENERAL DEMOLITION ITEMS SUCH AS WALLS, CEILINGS, ETC.
- 1. ALL WORK SHALL COMPLY WITH THE 2011 EDITION OF THE NATIONAL ELECTRICAL CODE.
- 2. EACH CIRCUIT SHALL HAVE AN EQUIPMENT GROUNDING CONDUCTOR. MULTI-WIRE CIRCUITS OF DIFFERENT PHASES MAY SHARE EQUIPMENT GROUNDING CONDUCTOR. EQUIPMENT GROUNDING CONDUCTOR SIZE SHALL NOT BE LESS THAN #12AWG OR AS INDICATED ON THE DRAWINGS.
- 3. ON THREE-PHASE, FOUR-WIRE SYSTEMS; DO NOT USE A COMMON NEUTRAL FOR MORE THAN THREE BRANCH CIRCUITS. MORE THAN THREE BRANCH CIRCUITS IN ANY ONE CONDUIT IS NOT ALLOWED WITHOUT WRITTEN PERMISSION FROM THE ENGINEER.
- 3.1. EACH BRANCH CIRCUIT SHALL BE ON A DIFFERENT PHASE. BRANCH CIRCUITS OF THE SAME PHASE SHALL NOT UTILIZE A COMMON NEUTRAL AND/OR BE INSTALLED IN SAME CONDUIT.
- 3.2. ALL APPLIANCE AND EQUIPMENT (MICROWAVES, REFRIGERATORS, ETC.) BRANCH CIRCUITS SHALL HAVE A DEDICATED NEUTRAL.
- 3.3. ALL LIGHTING BRANCH CIRCUITS USED FOR DIMMING PURPOSES SHALL HAVE A DEDICATED NEUTRAL.
- 4. MINIMUM CONDUCTOR SIZE SHALL BE #12AWG UNLESS OTHERWISE SPECIFIED. ALL CONDUCTORS #10AWG AND SMALLER SHALL BE SOLID COPPER AND ALL CONDUCTORS #8AWG AND LARGER SHALL BE STRANDED COPPER USING BOLTED LUGS AT TERMINALS.
- 5. MINIMUM CONDUIT SIZE SHALL BE 3/4" UNLESS OTHERWISE SPECIFIED. ALL CONDUIT SHALL BE INSTALLED AS HIGH AS POSSIBLE (MOUNT TO BOTTOM OF STRUCTURE) TO AVOID CONFLICTS WITH DUCTWORK AND PIPING. COORDINATE INSTALLATION WITH THE MECHANICAL CONTRACTOR.
- 6. THE CONTRACTOR SHALL REFER TO MECHANICAL DRAWINGS FOR THE EXACT LOCATIONS OF ALL MECHANICAL EQUIPMENT. FIELD COORDINATE THESE LOCATIONS WITH THE MECHANICAL CONTRACTOR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL CONTROL WIRING FOR MECHANICAL EQUIPMENT AS DIRECTED BY THE MECHANICAL CONTRACTOR.
- 7. THE CONTRACTOR SHALL REFER TO ARCHITECTURAL DRAWINGS AND DETAILS FOR THE EXACT LOCATIONS OF ALL WIRING DEVICES.
- 8. THE CONTRACTOR SHALL REFER TO ARCHITECTURAL REFLECTED CEILING PLANS AND ELEVATIONS FOR THE EXACT LOCATIONS OF ALL LIGHT FIXTURES. THE CONTRACTOR SHALL REFER TO ARCHITECTURAL LIGHT FIXTURE SCHEDULE FOR MANUFACTURER CATALOG INFORMATION AND DESCRIPTIONS FOR ALL
- 9. THE CONTRACTOR SHALL COORDINATE ALL WORK WITH THE BUILDING MANAGEMENT AS FOLLOWS:
- 9.1. THE CONTRACTOR SHALL OBTAIN A COPY OF THE BUILDING RULES & REGULATIONS PRIOR TO BID SUBMISSION TO DETERMINE REQUIREMENTS AND EXTENT OF PREMIUM TIME WORK REQUIRED BY THE BUILDING MANAGEMENT. FOR THE PURPOSE OF THE BID, THE CONTRACTOR SHALL NOT PERFORM ANY NOISY WORK (CHOPPING, CORE DRILLING, ETC.) AND BASE BUILDING SYSTEM INTERRUPTIONS DURING NORMAL BUSINESS HOURS.
- 9.2. THE CONTRACTOR IS RESPONSIBLE FOR ADHERING TO THE BUILDING RULES & REGULATIONS. ANY DISCREPANCIES BETWEEN THE CONTRACT DOCUMENTS AND THE BUILDING RULES & REGULATIONS SHALL BE SUBMITTED IN WRITING TO THE ARCHITECT AND/OR ENGINEER FOR REVIEW WITH BID
- 9.3. THE CONTRACTOR SHALL COORDINATE WITH THE BUILDING MANAGEMENT FOR ANY SERVICE INTERRUPTIONS OF EXISTING SYSTEMS A MINIMUM OF TWO (2) DAYS PRIOR TO ANY WORK; AND AFTER APPROVAL IS OBTAINED FROM THE BUILDING MANAGEMENT. THE CONTRACTOR SHALL NOTIFY THE CONSTRUCTION MANAGER BEFORE PERFORMING WORK ON PREMIUM TIME, IF SO DIRECTED BY THE BUILDING MANAGEMENT; SO AS NOT TO DISTURB BUILDING OPERATIONS.

Description No. Issued for Review 04.15.2016 Issued for Value Engineering Revision 01.30.2017 Issued for Construction 02.20.2017 **Purchase College** STATE UNIVERSITY OF NEW YORK

Client / Project

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and signature have been affixed by the Architect.

Electrical Specifications and Notes

E-1.2

June. 7, 2016

15.44

ARCHITECT P.C. AIA - LEED A.P. - NCARB 302 Lewis Avenue Yorktown Heights, NY 10598

DAVID A. TETRO

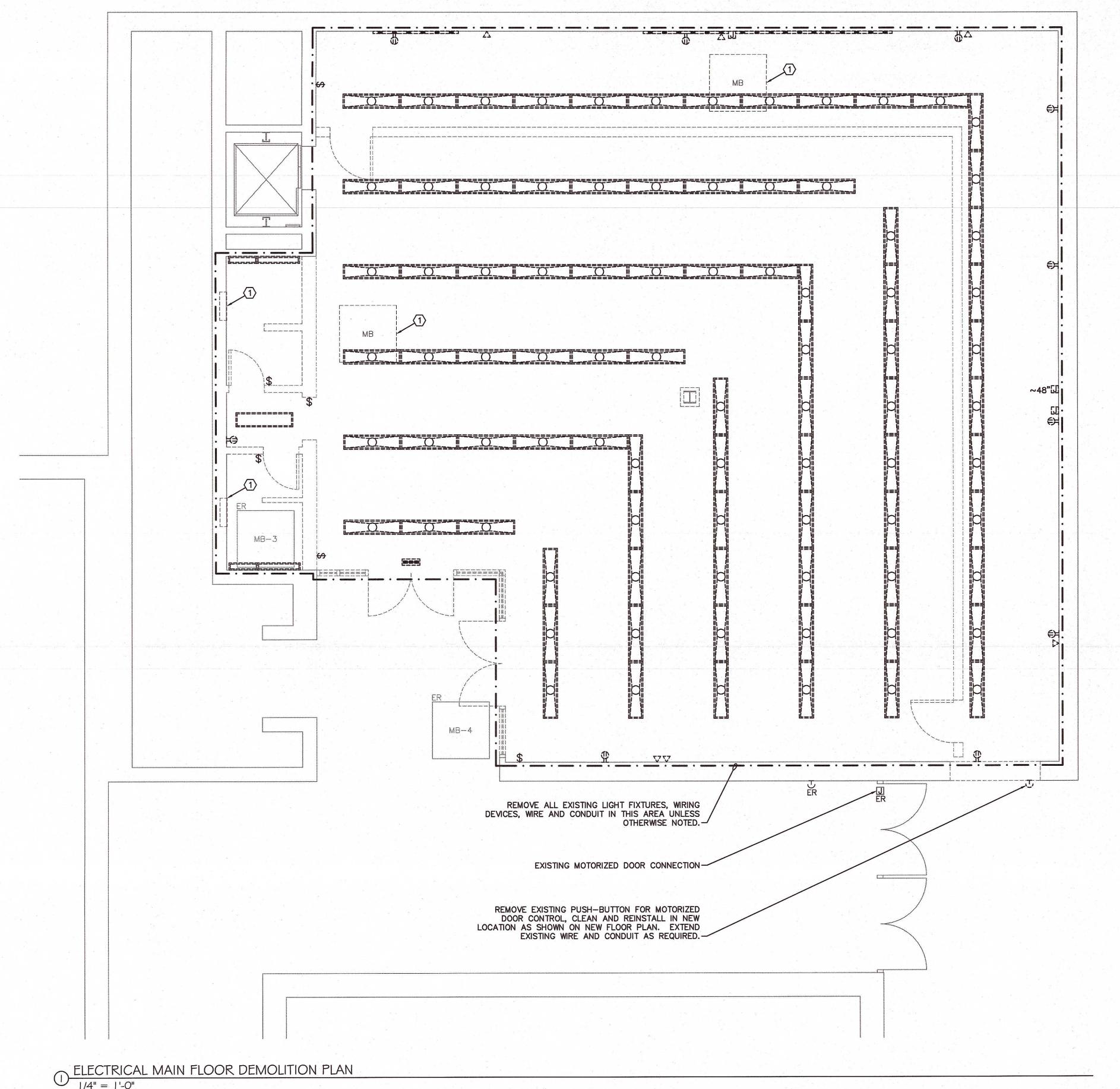
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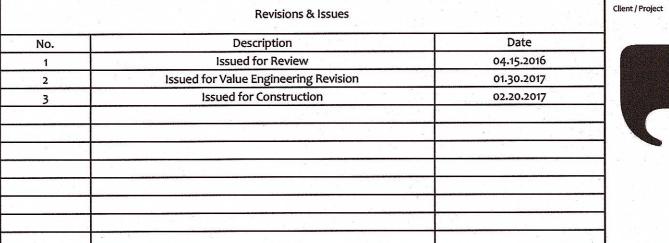


ELECTRICAL GENERAL DEMOLITION NOTES

- 1. THE ELECTRICAL CONTRACTOR SHALL COORDINATE WITH THE OWNER AS TO CONSTRUCTION SCHEDULING, SERVICE INTERRUPTIONS, AND ACCESS TO WORK
- 2. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DEMOLITION IN AREAS OF RENOVATION. ALL LIGHT FIXTURES, WIRING DEVICES, WIRE AND CONDUIT THAT ARE TO BE REMOVED SHALL BE STORED AS DIRECTED BY THE OWNER OR RELOCATED AS SHOWN ON NEW FLOOR PLANS.
- 3. APPROPRIATE MEASURES SHALL BE TAKEN TO ASSURE CONTINUITY OF EXISTING CIRCUITS WHERE REQUIRED. ALL OUTAGES WHICH MAY RESULT SHALL BE COORDINATED WITH THE OWNER PRIOR TO THE WORK.
- 4. ALL EXISTING BRANCH CIRCUITS NOT TO BE REUSED SHALL BE REMOVED BACK TO PANEL IN THEIR ENTIRETY. CIRCUIT BREAKERS SHALL BE LABELED AS SPARE AND PLACED IN THE "OFF" POSITION.
- 5. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR UPDATING SCHEDULES IN ALL ELECTRICAL PANELS THAT ARE AFFECTED BY THIS WORK. UPDATED SCHEDULES ARE TO BE TYPEWRITTEN.
- 6. ALL SALVAGEABLE ITEMS SUCH AS LIGHT FIXTURES, ETC. THAT ARE NOT TO BE REUSED SHALL BE TURNED OVER TO THE OWNER.
- 7. ABANDON OR REUSE EXISTING CONDUIT IN EXISTING WALLS THAT ARE TO REMAIN AS SHOWN ON NEW FLOOR PLAN.
- 8. REFER TO ARCHITECTURAL PLANS FOR GENERAL DEMOLITION ITEMS SUCH AS CEILINGS, WALLS, ETC.

ELECTRICAL KEYED DEMOLITION NOTES

1 REMOVE ALL WIRING DEVICES, WIRE AND CONDUIT ASSOCIATED WITH MECHANICAL EQUIPMENT THAT IS TO BE REMOVED BY OTHERS. COORDINATE DEMOLITION WITH THE MECHANICAL CONTRACTOR.



Do not scale drawings. Each Contractor shall be responsible for all field measurements.

Purchase College

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M.E.P. Engineer

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June. 7, 2016 15.44

E-2.1

DAVID A. TETRO

Demolition Plan

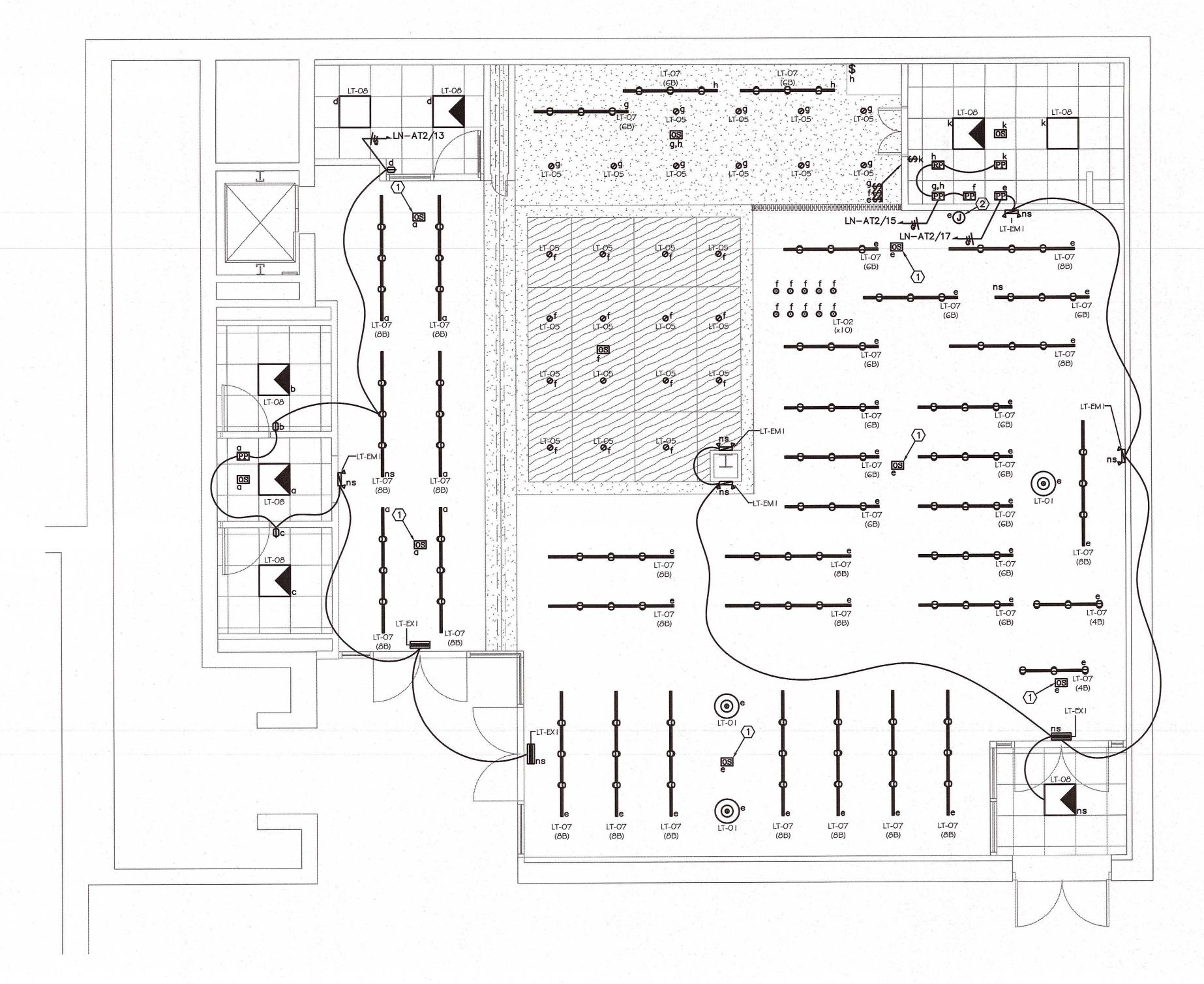
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ARCHITECT P.C. AIA - LEED A.P. - NCARB 302 Lewis Avenue **Electrical Main Floor**



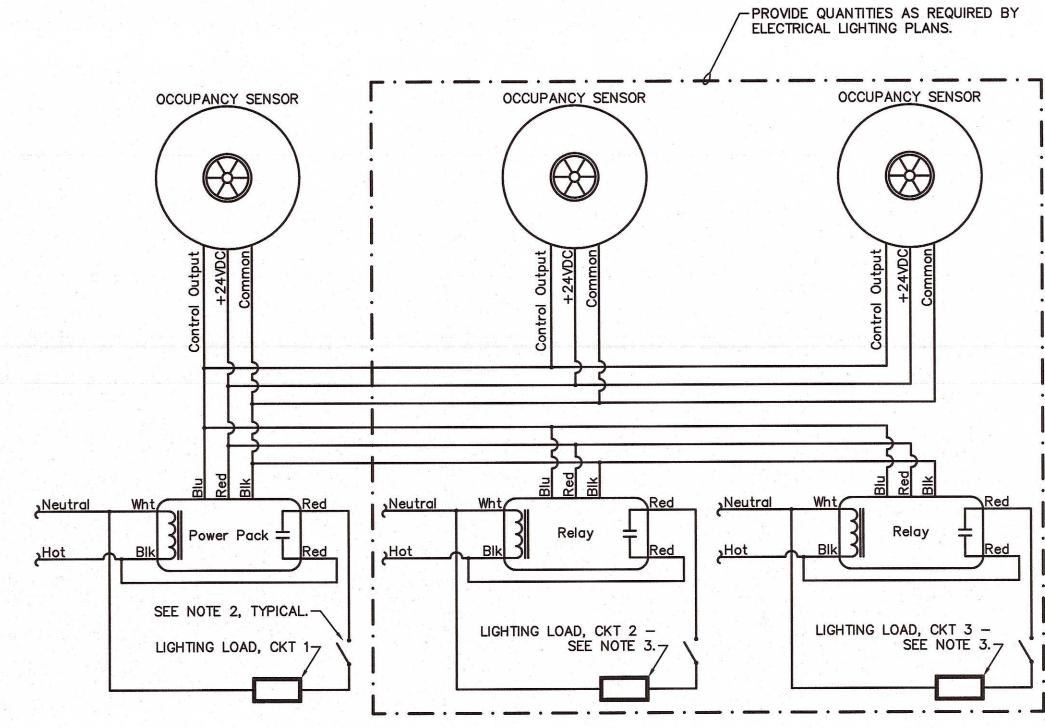
ELECTRICAL MAIN FLOOR LIGHTING PLAN

1/4" = 1'-0"

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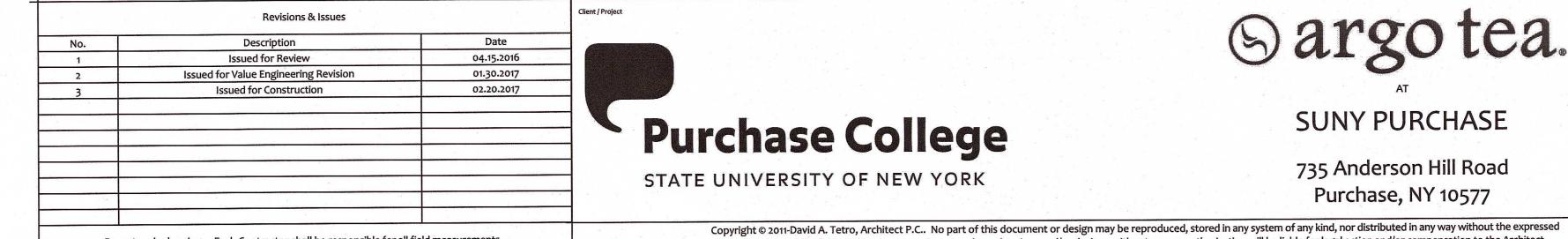
ELECTRICAL KEYED NOTES

- 1) INSTALL OCCUPANCY SENSOR ON BOTTOM OF NEAREST BEAM. PAINT EXPOSED JUNCTION BOX(ES) AND CONDUIT TO MATCH FINISHED CEILING.
- JUNCTION BOX FOR CONNECTION TO LED STRIP LIGHTS LOCATED IN MILLWORK. COORDINATE INSTALLATION WITH THE MILLWORK INSTALLER.



2 Low-Voltage Occupancy Sensor Control Wiring Diagram for Multiple Circuits
NTS

- 1. THE ELECTRICAL CONTRACTOR SHALL COORDINATE EXACT REQUIREMENTS AND SPECIFICATIONS WITH THE EQUIPMENT SUPPLIER.
- 2. LOCAL WALL SWITCH(ES) FOR MANUAL "OFF" OVERRIDE CONTROL OF LIGHT FIXTURES.
- 3. PROVIDE RELAYS AS REQUIRED FOR COMMON CONTROL OF LIGHT FIXTURES THAT ARE DIFFERENT CIRCUITS. FOR REFERENCE, MULTIPLE CIRCUITS MAY BE SHOWN ON DRAWINGS TO ACCOMMODATE LOAD, SWITCHING SCHEMES, DIFFERENT VOLTAGES AND/OR EMERGENCY





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Electrical Main Floor Lighting Plan

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E-2.2

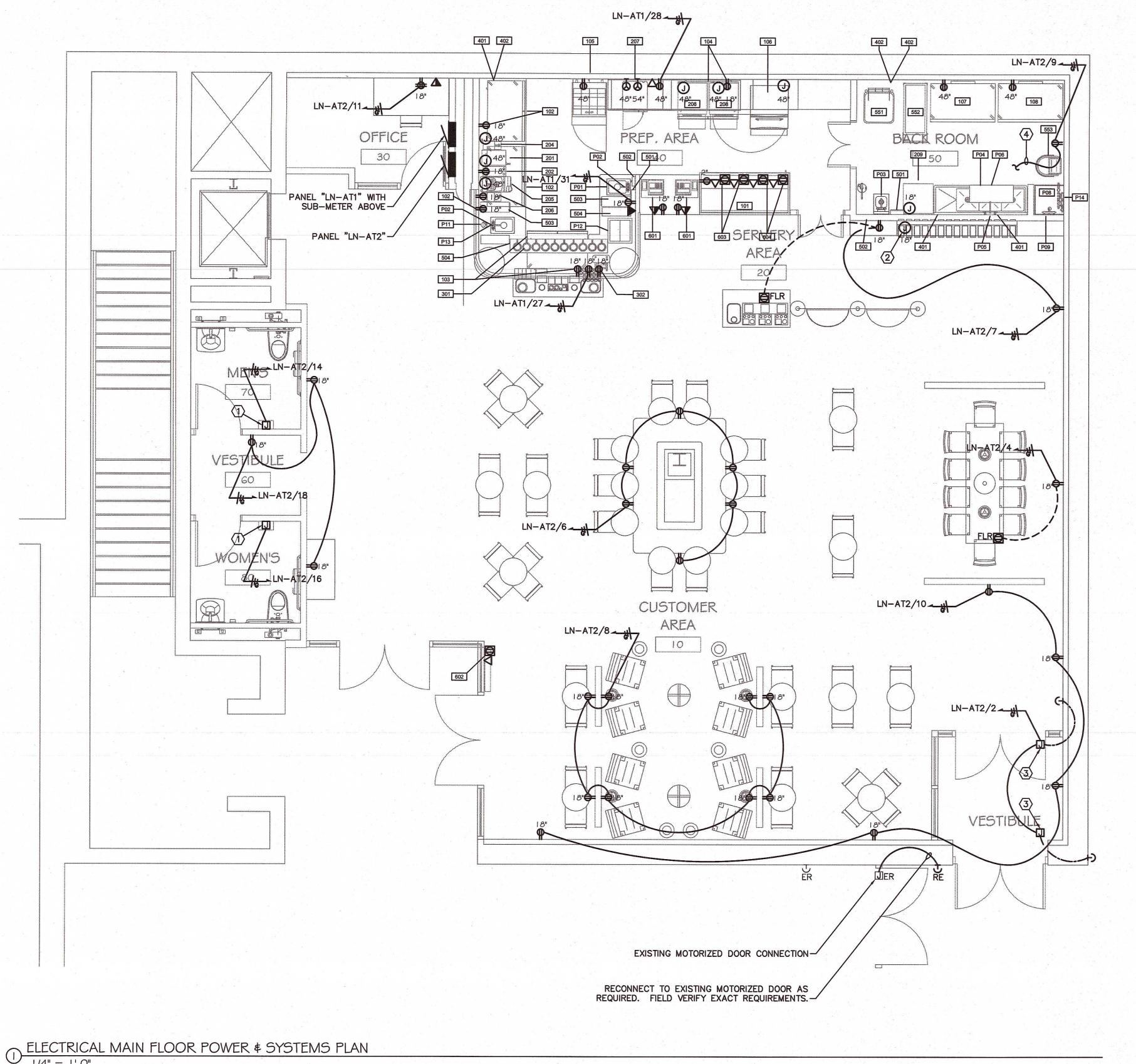
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ELECTRICAL GENERAL NOTES

- FIELD VERIFY EXACT LOCATION OF ALL MECHANICAL EQUIPMENT WITH THE MECHANICAL CONTRACTOR.
- FIELD COORDINATE EXACT LOCATION OF ALL POKE—THRU DEVICES WITH THE WAFFLE FLOOR SLAB. ENSURE POKE—THRU IS LOCATED IN SHALLOWEST PART OF SLAB.

ELECTRICAL KEYED NOTES

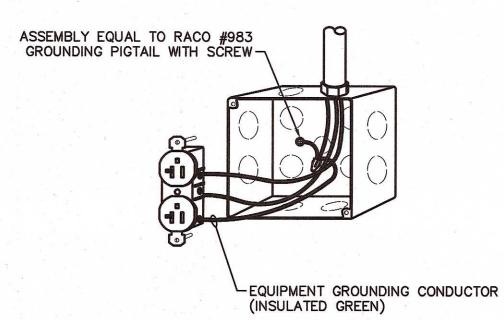
- JUNCTION BOX FLUSH MOUNTED IN WALL FOR CONNECTION TO ELECTRIC HAND DRYER. FIELD COORDINATE EXACT LOCATION WITH THE EQUIPMENT INSTALLER.
- DIAMING E-2.1 FOR WIRING REQUIREMENTS.
- JUNCTION BOX FOR CONNECTION TO MOTORIZED DOOR OPERATOR. FIELD COORDINATE EXACT LOCATION WITH THE EQUIPMENT INSTALLER. COORDINATE WIRING REQUIREMENTS WITH THE EQUIPMENT INSTALLER.
- 4 UP TO RECEPTACLES ON ROOF. REFER TO ELECTRICAL MAIN FLOOR MECHANICAL POWER PLAN ON DRAWING E-2.4 FOR CONTINUATION.

ELECTRICAL FOOD SERVICE NOTES

- REFER TO ELECTRICAL FOOD SERVICE EQUIPMENT SCHEDULE ON DRAWING E-3.1 FOR ELECTRICAL REQUIREMENTS FOR ALL FOOD SERVICE EQUIPMENT.
- 2. REFER TO THE FOOD SERVICE DRAWINGS FOR EXACT ROUGH—IN LOCATIONS AND MOUNTING HEIGHTS, CONNECTION TYPES, POSITIONS, FIXTURE TYPES, HEIGHTS, AND LOAD REQUIREMENTS. FIELD COORDINATE EXACT LOCATIONS WITH THE FOOD SERVICE EQUIPMENT INSTALLER PRIOR TO ROUGH—IN.
- 3. FINAL CONNECTIONS TO ALL EQUIPMENT AND BUILDING'S ELECTRICAL POWER SYSTEMS SHALL BE BY THE ELECTRICAL CONTRACTOR INCLUDING, BUT NOT LIMITED TO; ALL REQUIRED MATERIALS SUCH AS DISCONNECTS, BOXES, OUTLETS (EXCEPT AS FURNISHED AS PART OF THE EQUIPMENT), RIGID CONDUIT, FLEXIBLE CONDUIT, WIRING, ETC.
- 4. ALL 125-VOLT, 15 OR 20-AMP RECEPTACLES INSTALLED IN PREP AREA AND BACK ROOM SHALL BE GROUND-FAULT CIRCUIT-INTERRUPTING TYPE.
- 5. WHEN APPLICABLE; THE ELECTRICAL CONTRACTOR SHALL PROVIDE WIRING DEVICES, WIRE AND CONDUIT, INSTALL ELECTRICAL COMPONENTS (PROVIDED BY K.E.C.), AND PROVIDE ALL INTERCONNECTIONS BETWEEN THE FOLLOWING:
 - 5.1. REMOTE REFRIGERATION SYSTEMS TO EVAPORATOR COILS.
- 6. ELECTRICAL COMPONENTS MUST NOT INTERFERE WITH THE OPERATION OF THE FOOD SERVICE EQUIPMENT.
- 7. COORDINATE EXACT NEMA CONFIGURATION WITH THE FOOD SERVICE EQUIPMENT INSTALLER.
- 8. INSTALL DEDICATED CIRCUITS FOR ALL APPLIANCES UNLESS OTHERWISE NOTED.
- 9. THE ELECTRICAL CONTRACTOR SHALL FIELD VERIFY EXACT POWER REQUIREMENTS AND LOCATIONS OF ALL FOOD SERVICE EQUIPMENT WITH THE FOOD SERVICE EQUIPMENT SUPPLIER.
- 10. THE ELECTRICAL CONTRACTOR SHALL COORDINATE INSTALLATION OF ALL WIRING DEVICES AND EQUIPMENT LOCATED IN MILLWORK WITH THE MILLWORK INSTALLER.



2 ELECTRICAL BASEMENT POWER & SYSTEMS PLAN



3 Device/Junction Box Grounding Detail

....

1. UTILIZE SAME GROUNDING METHOD FOR SWITCHES.

E-2.3

No.	Description	Date
1	Issued for Review	04.15.2016
2	Issued for Value Engineering Revision	01.30.2017
3	Issued for Construction	02.20.2017
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	El	ectrical	
Power 8	Š	Systems	Plan

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Power & Systems Plans

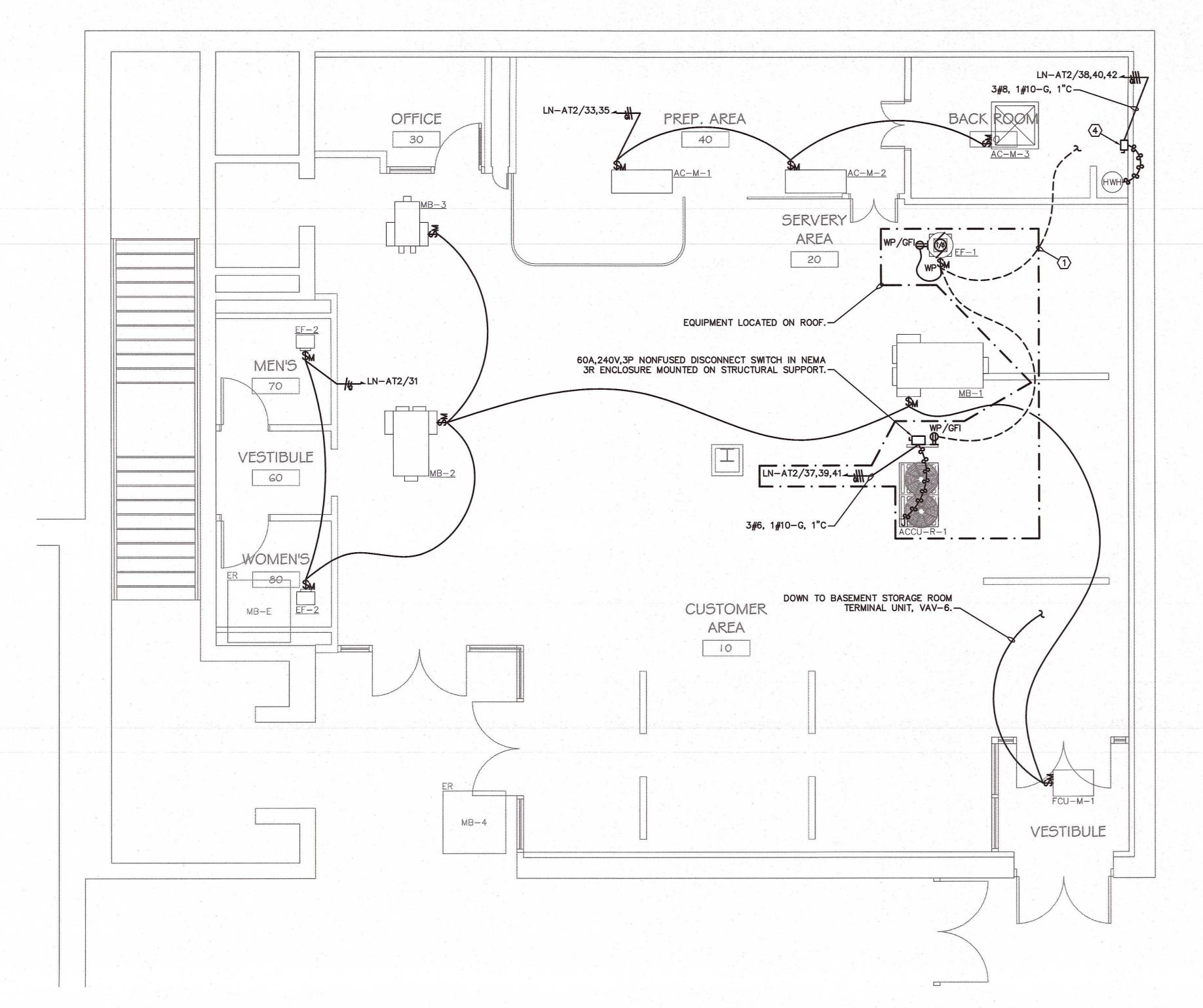
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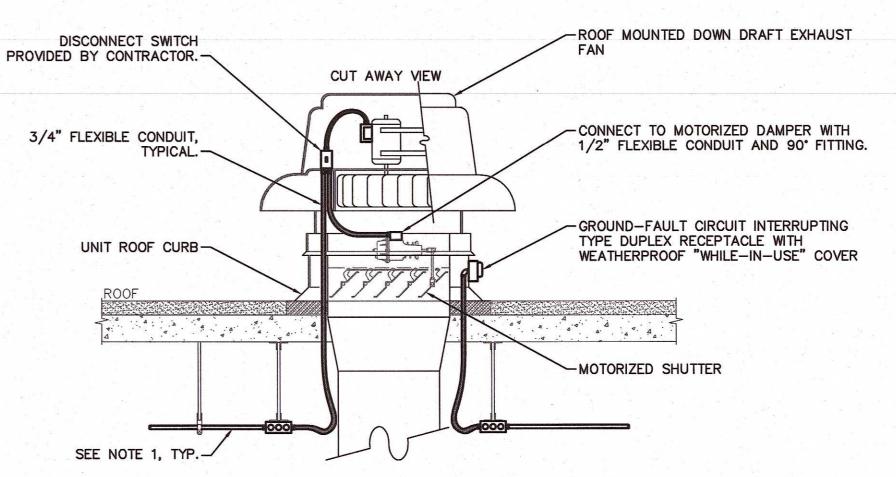


ELECTRICAL GENERAL NOTES

FIELD VERIFY EXACT LOCATION OF ALL MECHANICAL EQUIPMENT WITH THE MECHANICAL CONTRACTOR.

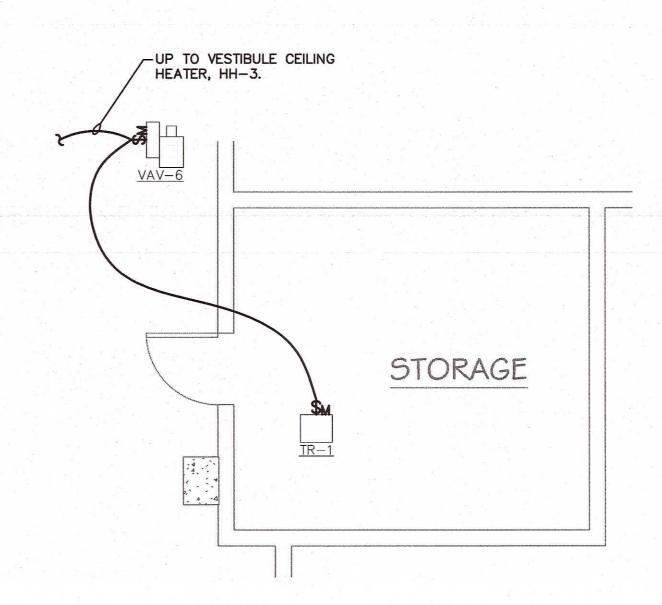
ELECTRICAL KEYED NOTES

- DOWN TO RECEPTACLE IN BACK ROOM. REFER TO ELECTRICAL MAIN FLOOR POWER & SYSTEMS PLAN ON DRAWING E-2.3 FOR CONTINUATION.
- 3#4, 1#10-G IN 1 1/4" CONDUIT TO NEW 70A/3P CIRCUIT BREAKER IN AVAILABLE SPACE IN 480Y/277V SECTION OF EXISTING NORTH MAIN DISTRIBUTION SWITCHBOARD. PROVIDE NEW BUILDING STANDARD SUB-METER IN LOCATION AS DIRECTED BY THE OWNER'S REPRESENTATIVE.
- 3 30A,240V,3P NONFUSED DISCONNECT SWITCH IN NEMA 1 ENCLOSURE MOUNTED ADJACENT TO UNIT ON STRUCTURAL STEEL.
- 60A,240V,3P NONFUSED DISCONNECT SWITCH IN NEMA 1 ENCLOSURE MOUNTED ADJACENT TO HOT WATER HEATER ON WALL.

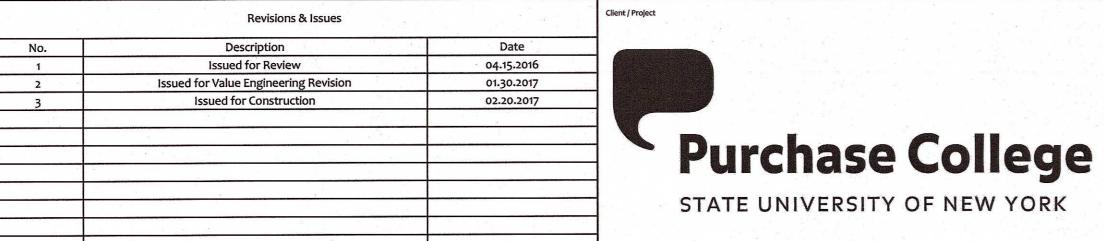


3 Electrical Connections to Roof Mounted Exhaust Fan Detail

1. ROUTE 3/4" CONDUIT IN CEILING SPACE BELOW ROOF. REFER TO ELECTRICAL PLANS FOR CONTINUATION AND CIRCUITING.



2 ELECTRICAL BASEMENT MECHANICAL POWER PLAN



ELECTRICAL MAIN FLOOR MECHANICAL POWER PLAN

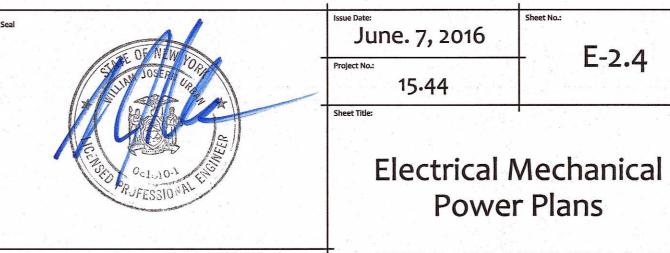
1/4" = 1'-0"

Do not scale drawings. Each Contractor shall be responsible for all field measurements.

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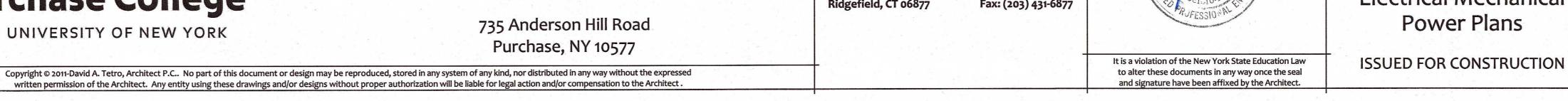
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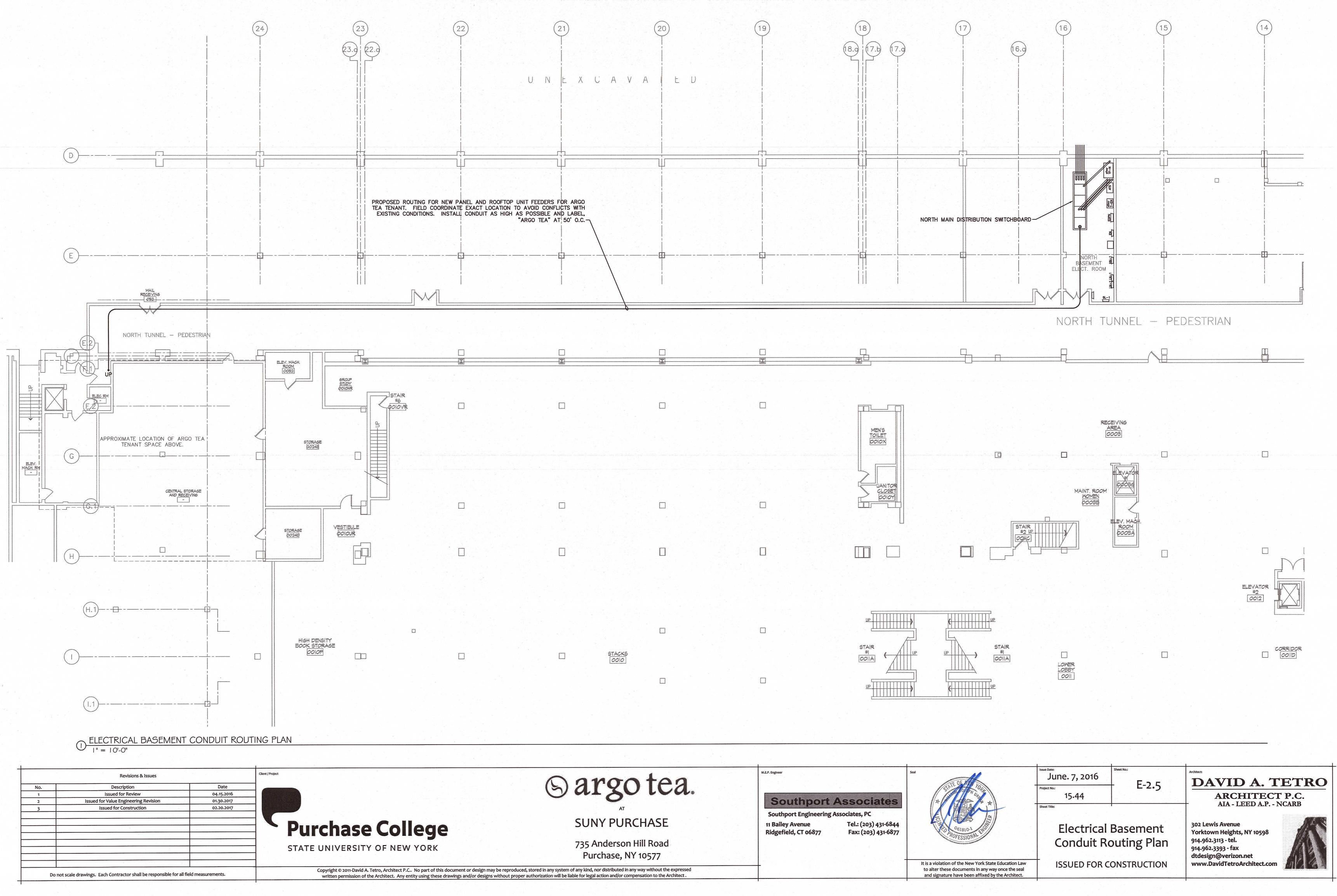
Power Plans

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ELECTRICAL FOOD SERVICE EQUIPMENT SCHEDULE

ITE NC	- 11	QTY	EQUIPMENT CATEGORY	MANUFACTURER	MODEL NUMBER	EQUIPMENT REMARKS	AMPS	KW	H-	VOLTS	PHASE	CYCLE	DIRECT	PLUG	NEMA	ELECTRICAL AFF (IN)	ITEM NO
10	1	1	OPEN MERCHANDISER	RPI	SCRFC7248-MS-MOD-AR	CUSTOM 72" WIDE UNIT	16.3		142 1	120/208	1	60		Х	L14-30P	2	101
10:				TURBO AIR	MUR-48		6.5		1/3	115	1	60		X	5-15P	18	102
10:				TURBO AIR	MUR-48-CUSTOM		6.5		1/3	115	1	60		Х	5-15P	18	103
104			FREEZER, UNDERCOUNTER	TURBO AIR	MUF-48		8.3		1/2	115	1	60		Х	5-15P	18	104
10		-		TURBO AIR	MST-28-12		3.3		1/4	115	1	60		Х	5-15P	48	105
100				MANITOWOC ICE	IY-0906A /B-570		12.2			208-230	1	60	Х			48	106
10		+	REFRIGERATOR, REACH-IN	TURBO AIR	M3R47-2	(1) TO BE LOCATED IN BASEMENT (SEE Q200B FOR ROUGHIN LOCATION	9.2	e ken jesen	1/3	115	1	60	10.44	Х	5-15P	48	107
10			FREEZER, REACH-IN	TURBO AIR	M3F47-2	(1) TO BE LOCATED IN BASEMENT (SEE Q200B FOR ROUGHIN LOCATION	10.5		3/4	115	1	60	1 22 2	Х	5-15P	48	108
20				BUNN-O-MATIC	34800.0002		19.2	4.0		120/208	1	60	Х	1y. 1		48	201
20		-		BUNN-O-MATIC	33700.0000		9.4			120	1	60		Х	5-15P	48	202
204	_	+		BUNN-O-MATIC	43600.0000		19.5	4.05		208	1	60	Х			48	204
20:		-	ESPRESSO MACHINE/GRINDER, SUPER-AUTOMATIC	LACIMBALI	M1 TurboSteam			2.6		208/240	1	60	Х		4.7	48	205
20		-	STEAMER, 2 BARISTA STEAM WANDS	CARIMALI	Service Unit Plus A02	ESTIMATED UTILITIES - VERIFY SPECIFICATIONS		2.8	Vet as	230	1	60	Х			18	206
20				ACP, Inc.	JET14	UNITS TO BE STACKED	16.0	3.2		208-240	1	60		Х	6-20P	48 / 54	
20			BAKING OVEN, ELECTRIC CONVECTION WITH STEAM CONDENSOR HOOD		Gusto / gu 3.0403	ESTIMATED UTILITIES - VERIFY SPECIFICATIONS		3.4		208	1	60	Х			48	208
20	_	+		MOYER DIEBEL	201HT	(1) ELECTRICAL CONNECTION	32.0			208	1	60	Х			18	209
30	_	-		APEX BEVERAGE EQUIPMI									37 (C) a				301
30				SENCO	PC1010		4.0		1.0	110	1	60		Х	5-15P	18	302
40				FOCUS FOODSERVICE	FF1848C		77.00					W 1995					401
40:			SHELVING WALL MOUNTS	FOCUS FOODSERVICE	FWB18SCH								375 1	W ₁ × W ₂ = 0			402
40			SHELVING WALL MOUNTS	FOCUS FOODSERVICE	FWB18DCH												403
40				FOCUS FOODSERVICE	FF1836C	LOCATED IN BASEMENT STORAGE AREA											404
40				FOCUS FOODSERVICE	FF1848C	LOCATED IN BASEMENT STORAGE AREA									6		405
50	_		TOWEL DISPENSER, KITCHEN	BOBRICK	B-2621							180 mg					501
50				BOBRICK	B-2112		- 1- 2-49-1										502
50				DISPENSE-RITE	WR-CT-4										÷ 1		503
50			DISPENSER, LID	DISPENSE-RITE	CTLD-15					1 121		100					504
55			GARBAGE BIN, 41 QUART	RUBBERMAID	FG295700-GREY										22		551
55				RUBBERMAID	FG409100-BLA										* * * * * * * * * * * * * * * * * * *		552
55				RUBBERMAID	7580-88												553
60				PROVIDED BY OPERATION		CASH DRAWER, SCANNER, RECEIPT PRINTER & SCALE W/DISPLAY	10.0		4 .	115	1	60		Х	5-15P	18	601
60				PROVIDED BY OPERATION		ESTIMATED UTILITIES - VERIFY SPECIFICATIONS	10.0			115	1	60		Х	5-15P	48	602
60				PROVIDED BY OPERATION		ESTIMATED UTILITIES - VERIFY SPECIFICATIONS	10.0			115	1	60		X	5-15P	48	603
60				PROVIDED BY OPERATION		ESTIMATED UTILITIES - VERIFY SPECIFICATIONS	10.0			115	1	60		X	5-15P	48	604
P0				ADVANCE TABCO	DI-1-10SP												P01
P0			FAUCET, PANTRY TYPE	FISHER	3515								da esta.	e jak		1	P02
P0			HAND SINK, WALL MOUNT	ADVANCE TABCO	7-PS-56			Lawrence .				1.00					P03
P0				ADVANCE TABCO	FS-3-1818-18L	(3) DRAINS											P04
PO			3-COMP SINK FAUCET, 14" SPOUT	FISHER	13277												P05
P0				ROCKFORD	G-1412												P06
P0			MOP SINK	ZURN	Z1996-24												P08
P0				CHICAGO FAUCETS	911-ISCP					•							P09
P1				PROVIDED BY OTHER	TBD		11.5	9.0		208	3	1 . 35	Х				P10
P1			WATER FILTER FOR ESPRESSO MACHINE	3M	ESPRESSOMATE EM2	ESTIMATED UTILITIES - VERIFY SPECIFICATIONS	- 1										P11
P1	-			ADVANCE TABCO	D-24-IBL				7.1				# 10 m m 1 1				P12
P1				ADVANCE TABCO	DI-1-10					-							P13
P1				3M PURIFICATION	ICE260-S												P14
	-							distribution of the same of th		<u> </u>			لحصصصا				

ELECTRICAL INFO

SERVING PANEL	POSITION Nos.	CIRCUIT BREAKER INFO	WIRE/CONDUIT QUANTITY AND SIZE	ITEM NO
LN-AT1	5,7	30A/2P	3#10, 1#10-G, 3/4"C	101
LN-AT1	32,34	(2) 20A/1P	(2) 2#12, 1#12-G, 3/4"C	102
LN-AT1	30	20A/1P	2#12, 1#12-G, 3/4"C	103
LN-AT1	25	20A/1P	2#12, 1#12-G, 3/4"C	104
LN-AT1	26	20A/1P	2#12, 1#12-G, 3/4"C	105
LN-AT1	22,24	20A/2P	2#12, 1#12-G, 3/4"C	106
LN-AT1	4,35	(2) 20A/1P	(2) 2#12, 1#12-G, 3/4"C	107
LN-AT1	2,33	(2) 20A/1P	(2) 2#12, 1#12-G, 3/4"C	108
LN-AT1	17,19	25A/2P	3#10, 1#10-G, 3/4"C	201
LN-AT1	36	20A/1P	2#12, 1#12-G, 3/4"C	202
LN-AT1	21,23	25A/2P	2#10, 1#10-G, 3/4"C	204
LN-AT1	13,15	20A/2P	2#12, 1#12-G, 3/4"C	205
LN-AT1	9,11	20A/2P	3#12, 1#12-G, 3/4"C	206
LN-AT1	6,8,10,12	(2) 20A/2P	(2) 2#12, 1#12-G, 3/4"C	207
LN-AT1	14,16,18,20	(2) 25A/2P	(2) 2#10, 1#10-G, 3/4"C	208
LN-AT1	1,3	40A/2P	3#8, 1#10-G, 1"C	209
	,,			301
LN-AT1	29	20A/1P	2#12, 1#12-G, 3/4"C	302
				401
				402
	- 7			403
				404
				405
				501
			(- 8 a	502
		la A		503
				504
				551
				552
				553
LN-AT2	3,5	(2) 20A/1P	(2) 2#12, 1#12-G, 3/4"C	601
LN-AT2	12	20A/1P	2#12, 1#12-G, 3/4"C	602
LN-AT2	1	20A/1P	2#12, 1#12-G, 3/4"C	603
LN-AT2		SHARED	2#12, 1#12-G, 3/4"C	604
214-7412		OTPARED	ZII 12, 111 12 O, 014 O	P01
			726 v. j	P02
				P03
				P04
				P05
				P06
				P08
				P09
LN-AT2	38,40,42	35A/3P	3#8, 1#10-G, 1"C	P10
LIN-7-112	30,40,42	337/35	υπυ, 1π 1υ-υ, 1 U	P11
				P12
				P13
		1 1 2		1 13

No.	Description	Date
1	Issued for Review	04.15.2016
2	Issued for Value Engineering Revision	01.30.2017
3	Issued for Construction	02.20.2017

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June. 7, 2016 E-3.1 15.44

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Electrical Food Service Equipment Schedule

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