

RISER DIAGRAM KEY NOTES

- TO EXISTING 208V/120V POWER COMPANY PAD-MOUNTED TRANSFORMER. COORDINATE SERVICE REQUIREMENTS WITH LOCAL POWER COMPANY PRIOR TO ANY WORK.
- EXISTING POWER COMPANY METER LOCATED ON SIDE OF SERVICE TRANSFORMER.
- EXISTING 800A, 208V/120V, 3-PHASE, SERVICE FEEDER.
- EXISTING SERVICE GROUND.
- EXISTING 225A, 3-PHASE FEEDER.
- EXISTING 125A, 3-PHASE FEEDER.
- EXISTING 100A, 3-PHASE FEEDER.
- PROVIDE AND INSTALL NEW 125A, 3-POLE CIRCUIT BREAKER IN EXISTING MDP-38,40,42 TO SERVE NEW PANELBOARD "F"
- PROVIDE AND INSTALL NEW (4)-#1, #6 GND, 1-1/2"Ø.

ABBREVIATION LEGEND

A / AMP	AMPERE	JB	JUNCTION BOX
AC	ALTERNATING CURRENT	KVA	KILOVOLT-AMPS
AFF	ABOVE FINISH FLOOR	KW	KILOWATT
AWG	AMERICAN WIRE GAUGE	LTG	LIGHTING
C	CONDUIT	MCB	MAIN CIRCUIT BREAKER
CB	CIRCUIT BREAKER	MLO	MAIN LUGS ONLY
CKT	CIRCUIT	NEC	NATIONAL ELECTRICAL CODE
EF	EXHAUST FAN	RTU	ROOFTOP UNIT
GFI	GROUND FAULT CIRCUIT INTERRUPTER	TELE	TELEPHONE
GRD	GROUND	TYP	TYPICAL
HP	HORSEPOWER	V	VOLT
IG	ISOLATED GROUND	VA	VOLT-AMPERE
TR	TRANSFORMER	W	WATT
DISC SW	DISCONNECT SWITCH	WP	WEATHERPROOF
FU	FUSE		

- ### CONTRACTOR RESPONSIBILITIES
- THE LOW VOLTAGE COMMUNICATIONS LOOP SHOWN IN THE ELECTRICAL PLANS. THE ELECTRICAL CONTRACTOR SHALL INSTALL A #22STP CABLE BETWEEN THE ROOFTOP UNITS AND THE EOT MAIN PANEL (ENSTEIN PANEL) AND ANY CONDUIT SHOWN ON THE ELECTRICAL DRAWINGS.
 - THE SIGNAL WIRE FOR THE MANAGER'S OVERRIDE BUTTON. THIS IS SHOWN ON THE ELECTRICAL PLANS.
 - THE LIGHTING CONTACTOR PANEL SHOWN IN THE ELECTRICAL PLANS. THIS IS PROVIDED BY ECT UNDER SEPARATE CONTRACT WITH THE JOB ELECTRICAL CONTRACTOR. THIS IS A SEPARATE ITEM THAT IS SPECIFIED AND PROVIDED UNDER THE ELECTRICAL PLANS AND SPECIFICATIONS.
 - TEMPORARY THERMOSTATS FOR THE ROOFTOP UNITS ARE PROVIDED BY THE HVAC CONTRACTOR. PLEASE BE CERTAIN THAT THESE TEMPORARY THERMOSTATS ARE MOUNTED IN PROPER LOCATIONS.
 - ANY SMOKE DETECTORS, SMOKE DAMPERS, FIRE DAMPERS, OR ASSOCIATED LOCK WIRING. THIS WORK IS SPECIFIED TO BE INSTALLED BY THE ELECTRICAL CONTRACTOR.
 - ALL ELECTRICAL SMOKE DAMPERS OR CONTROLS FOR SAME (IF SHOWN ON THE MECHANICAL CONSTRUCTION DRAWINGS). THIS EQUIPMENT IS FURNISHED AND INSTALLED BY THE HVAC CONTRACTOR.
 - ALL EMPTY CONDUITS MUST HAVE PULLWIRES AND BE TAGGED PROPERLY.
 - TIE BACK ALL LOOSE WIRING (INCLUDING LOW VOLTAGE) IN AN ORDERLY FASHION.
 - AVOID RUNNING LOW VOLTAGE WIRE OVER HIGH VOLTAGE WIRING OR LIGHT FIXTURES.
 - PROVIDE CONDUIT FOR ALL WRING, INCLUDING BUT NOT LIMITED TO CONTROL, FIRE ALARM, POWER AND COMMUNICATIONS WRING. COORDINATE INSTALLATION AND ROUTING REQUIREMENTS WITH APPROPRIATE INSTALLER(S).
 - UNDERFLOOR OR IN SLAB CONDUIT SHALL BE METAL WITH CONCRETE-TIGHT COMPRESSION FITTINGS WHERE PENETRATING FLOOR SLAB AND SHALL STUB UP VERTICALLY 90 DEGREES WHERE CONDUITS COME IN DIRECT CONTACT WITH GROUND. METAL CONDUITS SHALL BE COATED WITH TWO COATS OF ASPHALTUM OR BITUMASTIC.
 - SUBSCRIPTS ARE AS FOLLOWS:
EX - EXISTING TO REMAIN
ER - EXISTING TO BE RELOCATED TO NEW LOCATION SHOWN
ED - EXISTING TO BE DEMOLISHED
NEW - NEW
 - PROVIDE SINGLE GANG PLASTER FLANGES FOR ALL TELEPHONE DATA OUTLET LOCATIONS AS SPECIFIED ON THE DRAWINGS.
 - CONTRACTOR SHALL FIELD COORDINATE ROUTING OF NEW CIRCUITS AND TELEPHONE DATA CABLES WHERE POSSIBLE. E.M.T. CONDUIT CONCEALED BEHIND FINISHED WALLS, CEILING COILING COVERS, ETC. IF NOT ABLE TO BE CONCEALED BEHIND FINISHED SURFACES, CONTRACTOR SHALL UTILIZE WRING CHASES/POWER POLES OR WIREMOLD TYPE, SURFACE-MOUNTED, METAL RACEWAYS TO EXTEND POWER AND TELE/DATA CABLING FROM ABOVE FINISHED CEILING DOWN TO OUTLET LOCATIONS. THE USE OF WRING CHASES/POWER POLES AND SURFACE-MOUNTED RACEWAYS SHALL BE APPROVED BY THE OWNER PRIOR TO ORDERING AND ROUGH-IN.
 - CONTRACTOR SHALL CLEAN EXISTING LIGHT FIXTURES THROUGHOUT RENOVATED AREAS AND REPLACE ALL BURNED-OUT LAMPS. REPLACE BALLASTS AS NEEDED.
 - CONTRACTOR SHALL TEST ALL EXISTING EMERGENCY LIGHT FIXTURES AND EXIT SIGNS WITHIN BUILDING. BATTERIES SHALL POWER LIGHT FIXTURE/SIGN FOR A MINIMUM OF 90-MINS. ANY LIGHT FIXTURE/SIGN THAT DOES NOT PASS TESTING SHALL BE REPLACED WITH A NEW LIGHT FIXTURE/SIGN MATCHING THE EXISTING BUILDING/OWNER STANDARD.
 - ANY NEW RETAIL AREA FIXTURES AND LAMPS PROVIDED UNDER THIS PROJECT SHALL EXACTLY MATCH EXISTING FIXTURES/LAMPS. (NO EXCEPTION).

SYMBOL LEGEND

SYMBOL	DESCRIPTION	MOUNTING HEIGHT
⊕	DUPLEX RECEPTACLE	18" AFF
⊕	QUAD RECEPTACLE	18" AFF
⊕	DUPLEX RECEPTACLE WITH ISOLATED GROUND	18" AFF
⊕	QUAD RECEPTACLE WITH ISOLATED GROUND	18" AFF
⊕	GROUND FAULT CURRENT INTERRUPTER TYPE RECEPTACLE	AS NOTED
⊕	GROUND FAULT INTERRUPTER QUAD RECEPTACLE OUTLET	AS NOTED
⊕	SPECIAL RECEPTACLE AS NOTED	AS NOTED
⊕	CEILING DUPLEX RECEPTACLE	AS NOTED
⊕	JUNCTION BOX W/COVERPLATE - WALL MOUNTED	AS NOTED
⊕	MUD RING	AS NOTED
[PD]	POWER DROP. REF DETAIL SHEET	
⊕	PUSHBUTTON	AS NOTED
⊕	PANELBOARD	
⊕	DISCONNECT SWITCH	
⊕	HDMI PORT	AS NOTED
⊕	SINGLE DATA INFORMATION OUTLET	18" AFF UON
⊕	(1) SINGLE GANG 6-POSITION FACEPLATE (WHITE)	
⊕	(5) CATEGORY SE MODULAR JACKS (BLACK) TO STORE RACK	
⊕	(5) BLANK INSERTS (WHITE)	
⊕	2 DATA & 1 VOICE INFORMATION OUTLET	18" AFF UON
⊕	(1) SINGLE GANG 6-POSITION FACEPLATE (WHITE)	
⊕	(2) CATEGORY SE MODULAR JACKS (BLACK) TO STORE RACK	
⊕	(1) CATEGORY SE MODULAR JACKS (GRAY) TO WHITE CABINET	
⊕	(3) BLANK INSERTS (WHITE)	
⊕	THREE PORT INFORMATION OUTLET	18" AFF UON
⊕	(1) SINGLE GANG 6-POSITION FACEPLATE (WHITE)	
⊕	(4) CATEGORY SE MODULAR JACKS (BLACK) TO STORE RACK	
⊕	(3) BLANK INSERTS (WHITE)	
⊕	4 DATA & 1 VOICE INFORMATION OUTLET	18" AFF UON
⊕	(1) SINGLE GANG 6-POSITION FACEPLATE (WHITE)	
⊕	(5) CATEGORY SE MODULAR JACKS (BLACK) TO STORE RACK	
⊕	(2) CATEGORY SE MODULAR JACKS (GRAY) TO WHITE CABINET	
⊕	5 DATA & 1 VOICE INFORMATION OUTLET	18" AFF UON
⊕	(1) SINGLE GANG 6-POSITION FACEPLATE (WHITE)	
⊕	(5) CATEGORY SE MODULAR JACKS (BLACK) TO STORE RACK	
⊕	(1) CATEGORY SE MODULAR JACKS (GRAY) TO WHITE CABINET	
⊕	SECURITY CAMERA INFORMATION OUTLET	AS NOTED
⊕	(1) TRACJACK SURFACE HOUSING BOX	
⊕	(1) CATEGORY SE MODULAR JACKS (BLACK) TO STORE RACK	
⊕	(1) BLANK INSERTS (WHITE)	
⊕	OCCUPANCY SENSOR CEILING MOUNTED	
AFF	ABOVE FINISHED FLOOR	
AFO	ABOVE FINISHED GRADE	
XX	REFER TO ELECTRICAL NOTES	
⊕	S.P.S.T. LIGHT SWITCH	40" AFF UON
⊕	DIMMING SWITCH WITH OCCUPANCY SENSOR	40" AFF UON
⊕	S.P.S.T. LIGHT SWITCH WITH PILOT LIGHT	40" AFF UON
⊕	60 MINUTE TIMER SWITCH (MARKTIME #9008)	40" AFF UON
⊕	D.P.S.T. SWITCH	40" AFF UON
⊕	OCCUPANCY SENSOR (AQUITY BRANDS LIGHTING (#WSX PDT WH) SET TIME DELAY FOR 30 MINUTES)	40" AFF UON
⊕	MOTOR-RATED DISCONNECT SWITCH	AS NOTED
⊕	WIRING SIZE	
⊕	DOUBLE GANG PLASTER RING, RACO #769 FOR 5/8" DRYWALL	

NOTE: UNLESS OTHERWISE NOTED ALL OUTLETS & JUNCTION BOXES TO BE LOCATED 18" AFF. RECEPTACLES TO BE "LEVITON" #362A-W (ALL DEVICES TO BE WHITE). RENEW ELECTRICAL NOTES TO VERIFY CONDITIONS PER ELECTRICAL LEGEND.

MOUNTING HEIGHT IS FROM FINISHED FLOOR TO CENTERLINE OF DEVICE OR OUTLET. HEIGHT MAY VARY TO CONDUIT WITH BUILDING CONSTRUCTION.

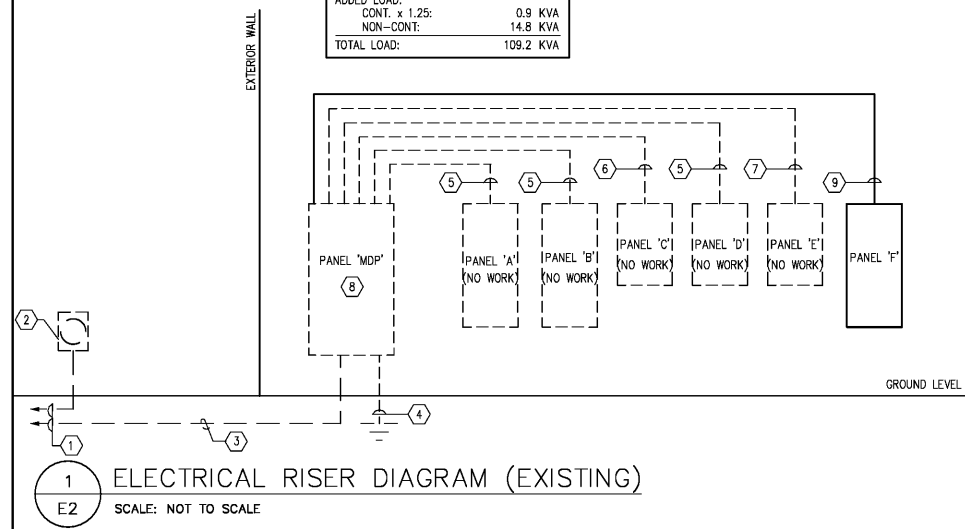
PANELBOARD NOTES

- ### RISER DIAGRAM NOTES
- ALL EQUIPMENT SHOWN DASHED IS EXISTING TO REMAIN UNLESS OTHERWISE NOTED. THIS SINGLE LINE DIAGRAM WAS DEVELOPED THROUGH FIELD SURVEYS OF EXISTING CONDITIONS. IT IS INCLUDED IN THIS SET TO PROVIDE THE CONTRACTOR WITH AN UNDERSTANDING OF THE OVERALL EXISTING ELECTRICAL DISTRIBUTION BUT IS NOT MEANT TO BE ALL INCLUSIVE OF ALL DISTRIBUTION EQUIPMENT AS NOT ALL FEEDERS WERE LABELED. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS AND NOTIFY OWNER/ARCHITECT/ENGINEER IMMEDIATELY OF ANY IRRECONCILABLE CONFLICTS.
 - PEAK DEMAND LOADS WERE CALCULATED TO DETERMINE ADDITIONAL LOAD CAPACITY. DEMAND LOADS WERE BASED ON INFORMATION RECEIVED BY CVS.
 - PRIOR TO START OF WORK CONTRACTOR SHALL PROVIDE LABOR, TOOLS AND MATERIAL REQUIRED TO CIRCUIT TRACE THE EXISTING BRANCH CIRCUITRY TO THE EXISTING ELECTRICAL EQUIPMENT IDENTIFY ON PLAN IN ORDER TO CONFIRM THE CIRCUITS BEING REUSED / MODIFIED IN THIS CONTRACT. CONTRACTOR SHALL RE-LABEL ALL NEW / REUSED / MODIFIED CIRCUIT BREAKERS WHEN DONE.
 - A.I.C. RATING OF ANY NEW CIRCUIT BREAKERS OR ELECTRICAL EQUIPMENT SHALL MATCH OR EXCEED RATINGS OF EXISTING PANELBOARDS/EQUIPMENT TO WHICH THEY ARE TO BE CONNECTED.
 - CONTRACTOR SHALL FIELD VERIFY LOADING ON EXISTING PANELBOARDS TO BE AFFECTED BY THIS PROJECT, PRIOR TO BEGINNING CONSTRUCTION. AT THE COMPLETION OF PROJECT, CONTRACTOR SHALL ONCE AGAIN VERIFY LOADING OF AFFECTED PANELBOARDS TO CONFIRM THAT NO PANELBOARD/FEEDER IS BEING OVERLOADED BY THIS WORK.
 - ALL NEW MULTI-CIRCUIT HOMERUNS SHALL BE PROTECTED WITH MULTI-POLE, SIMULTANEOUS-TRIP CIRCUIT BREAKERS PER N.E.C. 210.4B.
 - ALL NEW WIRE SHALL BE TYPE THHN/THWN COPPER.
 - SERIES RATING IS NOT ALLOWED ON NEW EQUIPMENT/DEVICES.
 - ALL TERMINATION'S ON NEW ELECTRICAL GEAR/EQUIPMENT (I.E. PANELBOARDS, DISCONNECT SWITCHES, ETC.) SHALL HAVE DUAL RATED 60-DEGREE / 75-DEGREE LUGS/TERMINALS.

- ### EMS NOTES
- DO NOT CONNECT THE FOLLOWING ITEMS INTO THE EMS PANEL:
- PHOTO LAB EQUIPMENT
 - FREEZERS
 - ICE MERCHANDISER
 - FAST LANE MERCHANDISE (FLM)
 - ATM
- CIRCUITS THAT ARE INDICATED TO BE CONNECTED TO THE EMS WERE BASED ON THE EXISTING PANEL SCHEDULES AND NEW WORK. ADDITIONAL CIRCUITS MAY BE REQUIRED TO BE CONNECTED TO THE EMS PER THE CVS REQUIREMENTS.

PANELBOARD MDP LOAD SUMMARY

RATED LOAD (80% of circuit brkr. rating of panel or feeder, whichever is less)	230.6 KVA
EXISTING LOAD x 1.25:	93.8 KVA
REMOVED LOAD:	0.3 KVA
ADDED LOAD:	0.9 KVA
CONT. x 1.25:	14.8 KVA
NON-CONT:	
TOTAL LOAD:	109.2 KVA



PANELBOARD SCHEDULE (NEW PANELBOARD)

NO.	SERVICES	VOLTAGE				WIRING	SURFACE	REMARKS
		120	208	240	480			
1	PHOTOLAB REC	0.5						
2	PHOTOLAB REC	0.7						
3	PHOTOLAB REC		0.5					
4	PRINTERS			1.8				
5	KOOLACK PRINTER		0.5					
6	TELECONFERENCING			0.7				
7	1337 RACK			0.4				
8	19 SALES TV			0.9				
9	17 SALES TV			0.5				
10	16 SALES REC			0.4				
11	15 SALES REC			0.2				
12	23 REX WAITING REC			0.5				
13	22 REX WAITING TV			0.2				
14	21 CONDENSED DECK			0.4				
15	20 LEARNING TABLE			0.2				
16	19 CHARCROSS TABLES			0.4				
17	33 TRACK/BRELLERS LTG			0.7				
18	32 SPARE			0.2				
19	31 SPARE ONLY							
20	30 SPARE ONLY							
21	29 SPARE ONLY							
22	28 SPARE ONLY							
23	27 SPARE ONLY							
24	26 SPARE ONLY							
25	25 SPARE ONLY							
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38	12 SPARE ONLY							
39	11 SPARE ONLY							
40	10 SPARE ONLY							
41	9 SPARE ONLY							
42	8 SPARE ONLY							
43	7 SPARE ONLY							
44	6 SPARE ONLY							
45	5 SPARE ONLY							
46	4 SPARE ONLY							
47	3 SPARE ONLY							
48	2 SPARE ONLY							
49	1 SPARE ONLY							
50	TOTAL	1.0	0.6	0.9	0.9	18.8	0.7	18.8 KVA

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11 RIVER RIDGE DRIVE, OAKLEY PLAZA
ASHEVILLE, NC 28803
CAP CODE: 90

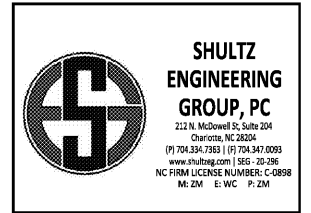
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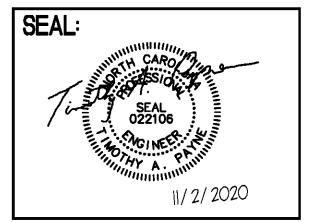


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CVS PROJECT MANAGER: RJ

DATE: 11-02-2020

JOB NUMBER: 121-14217-08

TITLE: SYMBOLS, RISER DIAGRAM & LOAD SUMMARY

SHEET NUMBER:

E2

COMMENTS: