



OPTIMA# 24-0096R Sheet No. 1 of 24

DISCONNECT SIZE DESCRIPTION

A-F A-P
FRAME SIZE FUSE SIZE A P NEMA RATING
NUMBER OF POLES

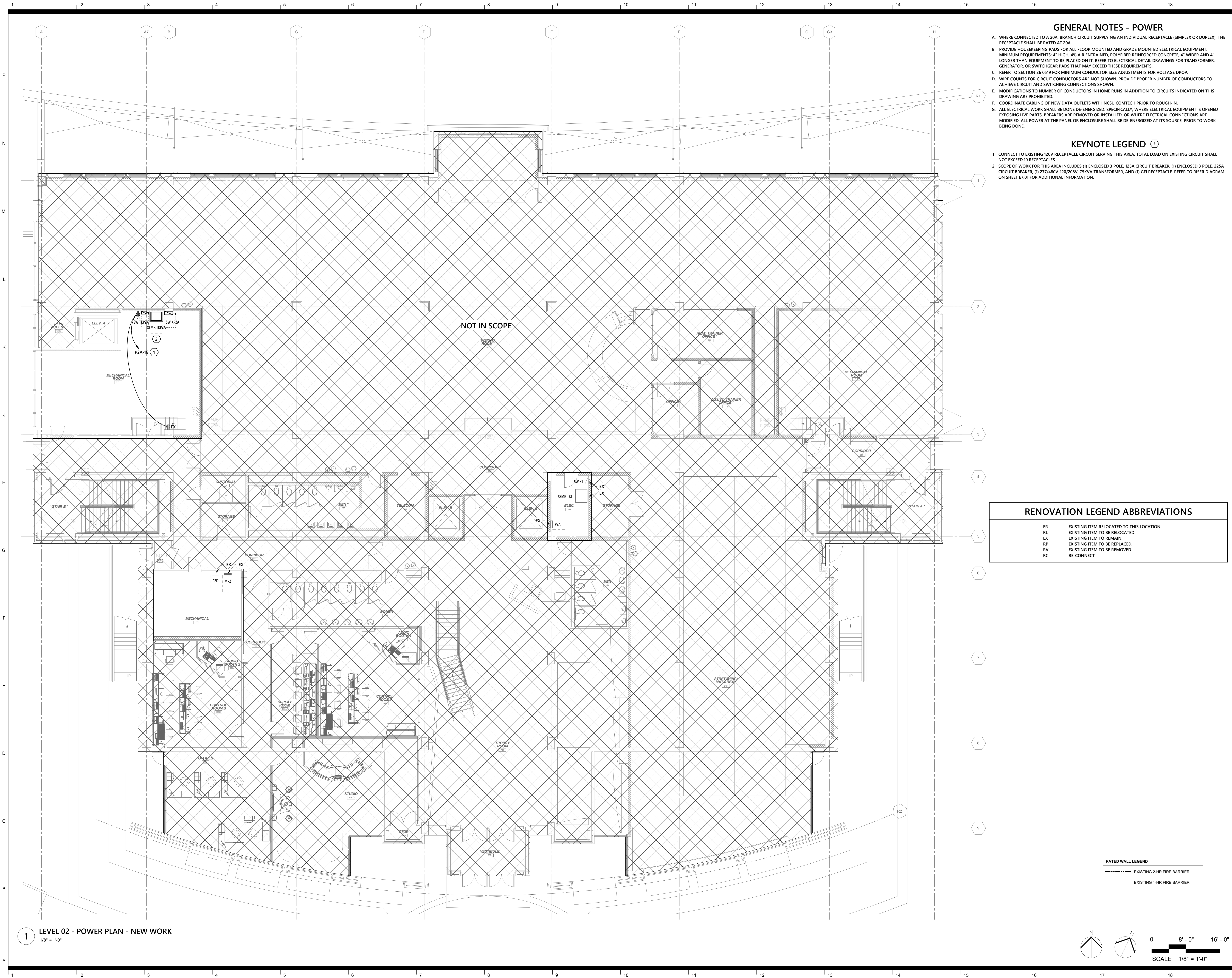
ER	EXISTING ITEM RELOCATED TO THIS LOCATION
RL	EXISTING ITEM TO BE RELOCATED.
EX	EXISTING ITEM TO REMAIN.
RP	EXISTING ITEM TO BE REPLACED.
RV	EXISTING ITEM TO BE REMOVED.
RC	RE-CONNECT

----- EXISTING 2-HR FIRE BARRIER
 - - - - - EXISTING 1-HR FIRE BARRIER



0 8' - 0" 16' - 0"

SCALE 1/8" = 1'-0"



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**Wendell H. Murphy
Football Center -
Kitchen Renovation**

SCO ID: 24-28146-01A
NCSU Project #: 202320015
Code: 42324 Item: 305
NCSU Building #:135F

seal/signature



rev date description

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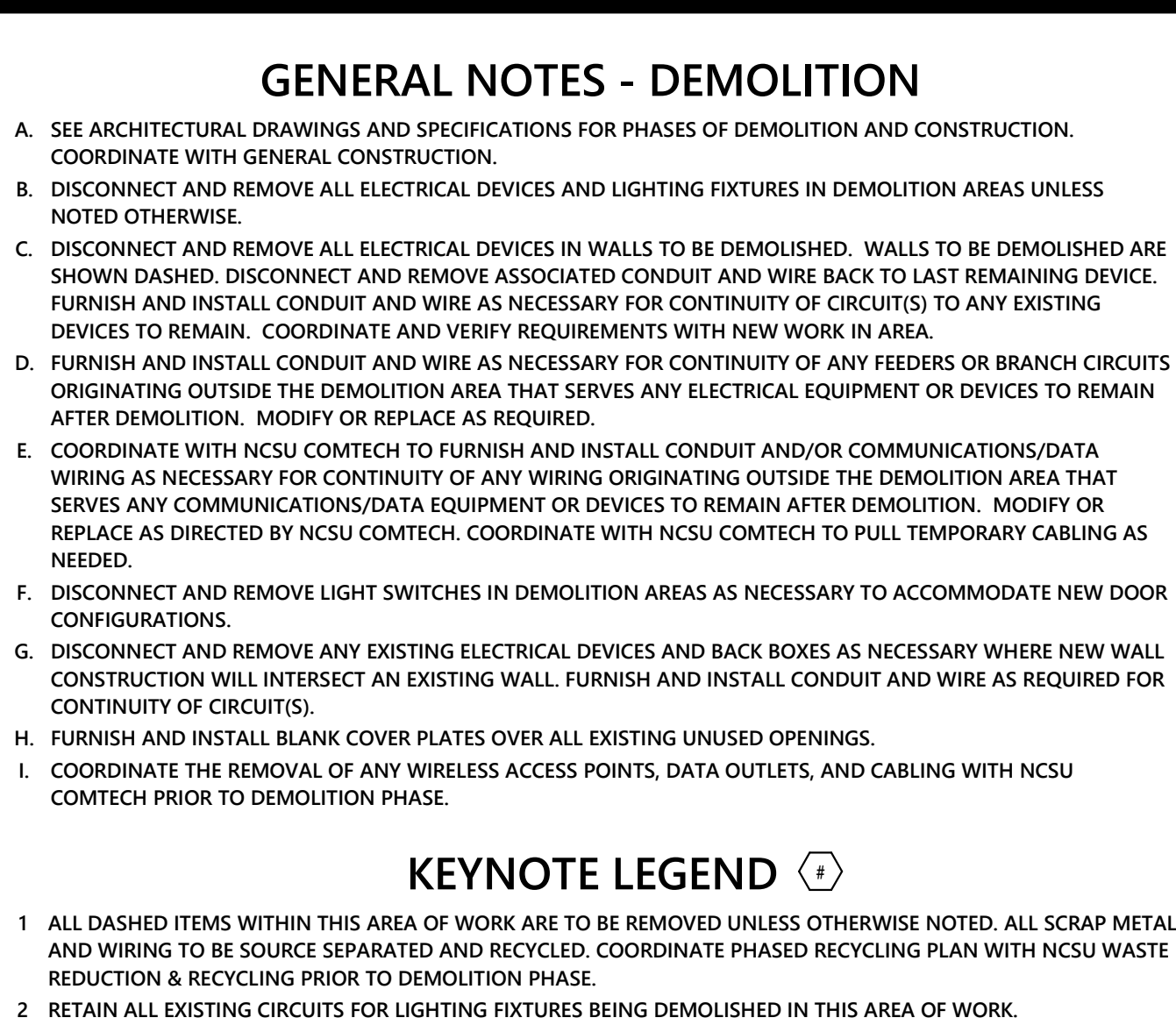
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issued for BID
project number 2308

**LEVEL 02 - POWER
PLAN - NEW WORK**

sheet number

E2.01

OPTIMAR 24-0096R Sheet No. 4 of 24



- A. SEE ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR PHASES OF DEMOLITION AND CONSTRUCTION. COORDINATE WITH GENERAL CONSTRUCTION.
- B. DISCONNECT AND REMOVE ALL ELECTRICAL DEVICES AND LIGHTING FIXTURES IN DEMOLITION AREAS UNLESS NOTED OTHERWISE.
- C. DISCONNECT AND REMOVE ALL ELECTRICAL DEVICES IN WALLS TO BE DEMOLISHED. WALLS TO BE DEMOLISHED ARE SHOWN DASHED. DISCONNECT AND REMOVE ASSOCIATED CONDUIT AND WIRE BACK TO LAST REMAINING DEVICE. DISCONNECT AND REMOVE ALL ELECTRICAL DEVICES AND CONDUIT AS NECESSARY FOR THE REMOVAL OF ANY EXISTING DEVICES TO REMAIN. COORDINATE AND VERIFY REQUIREMENTS WITH NEW WORK IN AREA.
- D. FURNISH AND INSTALL CONDUIT AND WIRE AS NECESSARY FOR CONTINUITY OF ANY FEEDERS OR BRANCH CIRCUITS ORIGINATING OUTSIDE THE DEMOLITION AREA THAT SERVES ANY ELECTRICAL EQUIPMENT OR DEVICES TO REMAIN IN THE AREA.
- E. COORDINATE WITH NCSU COMTECH TO FURNISH AND INSTALL CONDUIT AND/OR COMMUNICATIONS/DATA WIRING AS NECESSARY FOR CONTINUITY OF ANY WIRING ORIGINATING OUTSIDE THE DEMOLITION AREA THAT SERVES ANY COMMUNICATIONS/DATA EQUIPMENT OR DEVICES TO REMAIN AFTER DEMOLITION. MODIFY OR REPAIR AS DIRECTED BY NCSU COMTECH. COORDINATE WITH NCSU COMTECH TO PULL TELEPHONE CABLEING AS NEEDED.
- F. DISCONNECT AND REMOVE LIGHT SWITCHES IN DEMOLITION AREAS AS NECESSARY TO ACCOMMODATE NEW DOOR CONFIGURATIONS.
- G. DISCONNECT AND REMOVE ANY EXISTING ELECTRICAL DEVICES AND BACK BOXES AS NECESSARY WHERE NEW WALL CONSTRUCTION WILL INTERSECT AN EXISTING WALL. FURNISH AND INSTALL CONDUIT AND WIRE AS REQUIRED FOR CONTINUITY OF CIRCUITS).
- H. FURNISH AND INSTALL BACK COVER PLATES OVER ALL EXISTING UNUSED OPENINGS.
- I. COORDINATE THE REMOVAL OF ANY WIRELESS ACCESS POINTS, DATA OUTLETS, AND CABLEING WITH NCSU COMTECH PRIOR TO DEMOLITION PHASE.

- 1 ALL DASHED ITEMS WITHIN THIS AREA OF WORK ARE TO BE REMOVED UNLESS OTHERWISE NOTED. ALL SCRAP METAL AND WIRING TO BE SOURCE SEPARATED AND RECYCLED. COORDINATE PHASED RECYCLING PLAN WITH NCSU WASTE REDUCTION & RECYCLING PRIOR TO DEMOLITION PHASE.
- 2 RETAIN ALL EXISTING CIRCUITS FOR LIGHTING FIXTURES BEING DEMOLISHED IN THIS AREA OF WORK.

ER	EXISTING ITEM RELOCATED TO THIS LOCATION.
RL	EXISTING ITEM TO BE RELOCATED.
EX	EXISTING ITEM TO REMAIN.
RP	EXISTING ITEM TO BE REPLACED.
RV	EXISTING ITEM TO BE REMOVED.
RC	RE-CONNECT


RATED WALL LEGEND	
---	EXISTING 2-HR FIRE BARRIER
---	EXISTING 1-HR FIRE BARRIER

1 LEVEL 03 - LIGHTING PLAN - DEMOLITION
1/8" = 1'-0"



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06-23-2025

rev	date	description
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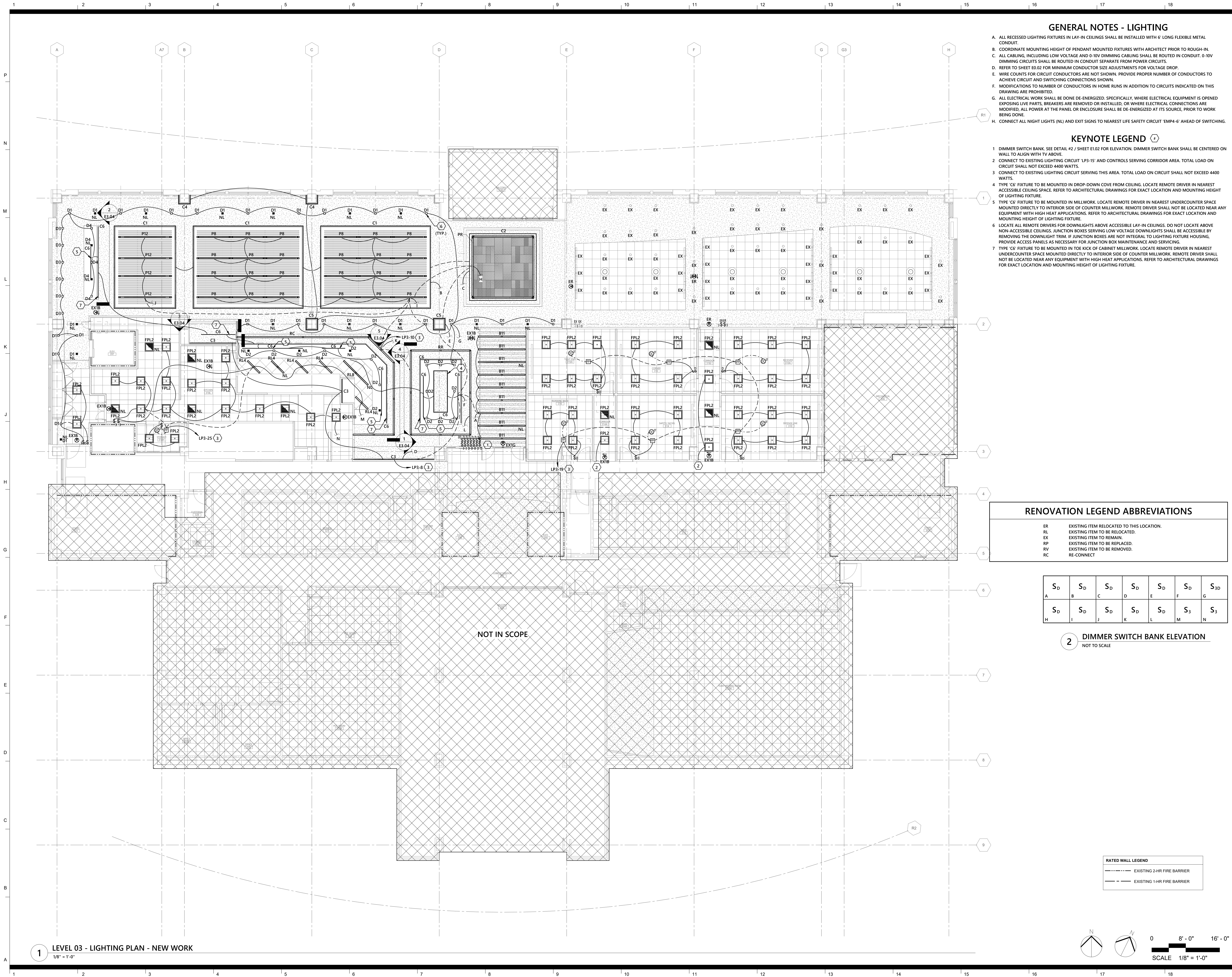
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project number	2308

**LEVEL 03 -
LIGHTING PLAN -
DEMOLITION**

sheet number

E3.01

OPTIMA# 24-0096R Sheet No. 5 of 24



GENERAL NOTES - LIGHTING

- ALL RECESSED LIGHTING FIXTURES IN LAY-IN CEILINGS SHALL BE INSTALLED WITH 6' LONG FLEXIBLE METAL CONDUIT.
- COORDINATE MOUNTING HEIGHT OF PENDANT MOUNTED FIXTURES WITH ARCHITECT PRIOR TO ROUGH-IN.
- ALL CABLING, INCLUDING LOW VOLTAGE AND 0-10V DIMMING CABLING SHALL BE ROUTED IN CONDUIT. 0-10V DIMMING CIRCUITS SHALL BE ROUTED IN CONDUIT SEPARATE FROM POWER CIRCUITS.
- REFER TO SHEET E0.02 FOR MINIMUM CONDUCTOR SIZE ADJUSTMENTS FOR VOLTAGE DROP.
- WIRE COUNTS FOR CIRCUIT CONDUCTORS ARE NOT SHOWN. PROVIDE PROPER NUMBER OF CONDUCTORS TO ACHIEVE CIRCUIT AND SWITCHING CONNECTIONS SHOWN.
- MODIFICATIONS TO NUMBER OF CONDUCTORS IN HOME RUNS IN ADDITION TO CIRCUITS INDICATED ON THIS DRAWING ARE PROHIBITED.
- ALL ELECTRICAL WORK SHALL BE DONE DE-ENERGIZED. SPECIFICALLY, WHERE ELECTRICAL EQUIPMENT IS OPENED EXPOSING LIVE PARTS, BREAKERS ARE REMOVED OR INSTALLED, OR WHERE ELECTRICAL CONNECTIONS ARE MODIFIED, ALL POWER AT THE PANEL OR ENCLOSURE SHALL BE DE-ENERGIZED AT ITS SOURCE, PRIOR TO WORK BEING DONE.
- CONNECT ALL NIGHT LIGHTS (NL) AND EXIT SIGNS TO NEAREST LIFE SAFETY CIRCUIT 'EMP4-6' AHEAD OF SWITCHING.

KEYNOTE LEGEND

- DIMMER SWITCH BANK. SEE DETAIL #2 / SHEET E1.02 FOR ELEVATION. DIMMER SWITCH BANK SHALL BE CENTERED ON WALL TO ALIGN WITH TV ABOVE.
- CONNECT TO EXISTING LIGHTING CIRCUIT 'LP3-15' AND CONTROLS SERVING CORRIDOR AREA. TOTAL LOAD ON CIRCUIT SHALL NOT EXCEED 4400 WATTS.
- CONNECT TO EXISTING LIGHTING CIRCUIT SERVING THIS AREA. TOTAL LOAD ON CIRCUIT SHALL NOT EXCEED 4400 WATTS.
- TYPE 'C6' FIXTURE TO BE MOUNTED IN DROP-DOWN COVE FROM CEILING. LOCATE REMOTE DRIVER IN NEAREST ACCESSIBLE CEILING SPACE. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATION AND MOUNTING HEIGHT OF LIGHTING FIXTURE.
- TYPE 'C6' FIXTURE TO BE MOUNTED IN MILLWORK. LOCATE REMOTE DRIVER IN NEAREST UNDERCOUNTER SPACE MOUNTED DIRECTLY TO INTERIOR SIDE OF COUNTER MILLWORK. REMOTE DRIVER SHALL NOT BE LOCATED NEAR ANY EQUIPMENT WITH HIGH HEAT APPLICATIONS. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATION AND MOUNTING HEIGHT OF LIGHTING FIXTURE.
- LOCATE ALL REMOTE DRIVERS FOR DOWNLIGHTS ABOVE ACCESSIBLE LAY-IN CEILINGS. DO NOT LOCATE ABOVE NON-ACCESSIBLE CEILINGS. JUNCTION BOXES SERVING LOW VOLTAGE DOWNLIGHTS SHALL BE ACCESSIBLE BY REMOVING THE DOWNLIGHT TRIM. IF JUNCTION BOXES ARE NOT INTEGRAL TO LIGHTING FIXTURE HOUSING, PROVIDE ACCESS PANELS AS NECESSARY FOR JUNCTION BOX MAINTENANCE AND SERVICING.
- TYPE 'C6' FIXTURE TO BE MOUNTED IN TOE KICK OF CABINET MILLWORK. LOCATE REMOTE DRIVER IN NEAREST UNDERCOUNTER SPACE MOUNTED DIRECTLY TO INTERIOR SIDE OF COUNTER MILLWORK. REMOTE DRIVER SHALL NOT BE LOCATED NEAR ANY EQUIPMENT WITH HIGH HEAT APPLICATIONS. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATION AND MOUNTING HEIGHT OF LIGHTING FIXTURE.

RENOVATION LEGEND ABBREVIATIONS

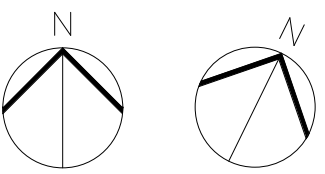
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EX	EXISTING ITEM TO REMAIN.
RP	EXISTING ITEM TO BE REPLACED.
RV	EXISTING ITEM TO BE REMOVED.
RC	RE-CONNECT

S _D	S _D	S _D	S _D	S _D	S _D	S _{3D}
A	B	C	D	E	F	G
S _D	S _D	S _D	S _D	S _D	S ₃	S ₃
H	I	J	K	L	M	N

2 DIMMER SWITCH BANK ELEVATION

NOT TO SCALE

RATED WALL LEGEND	
---	EXISTING 2-HR FIRE BARRIER
---	EXISTING 1-HR FIRE BARRIER



0 8' - 0" 16' - 0"
SCALE 1/8" = 1'-0"



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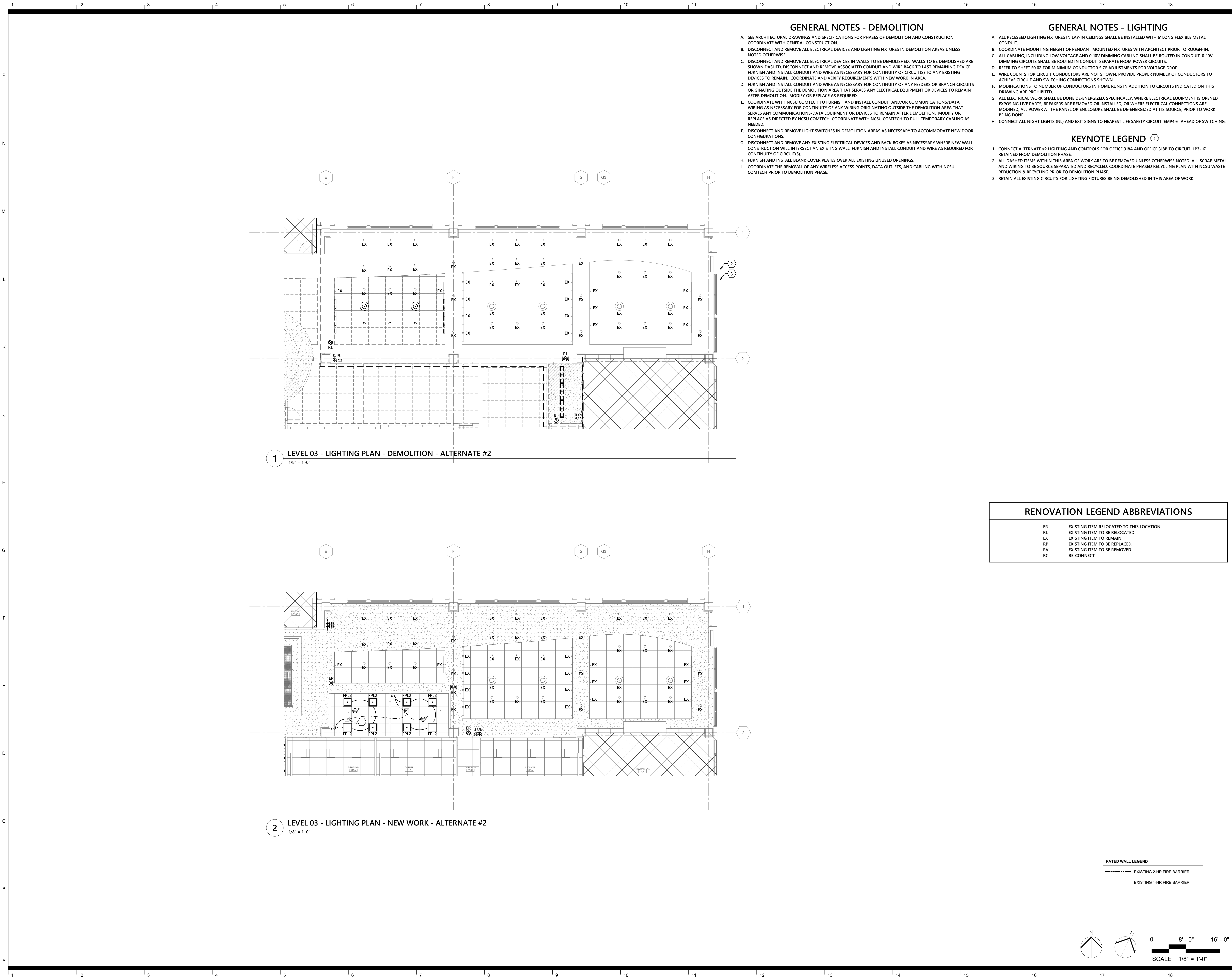
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**LEVEL 03 -
LIGHTING PLAN -
NEW WORK**

sheet number

E3.02



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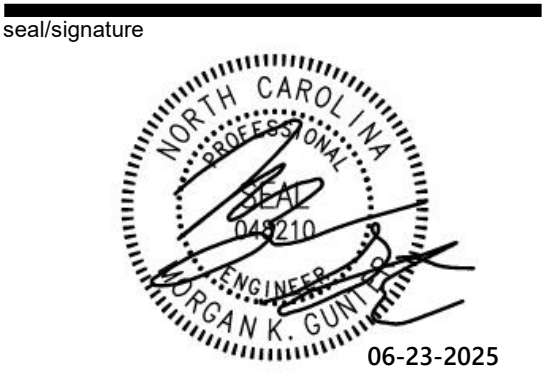
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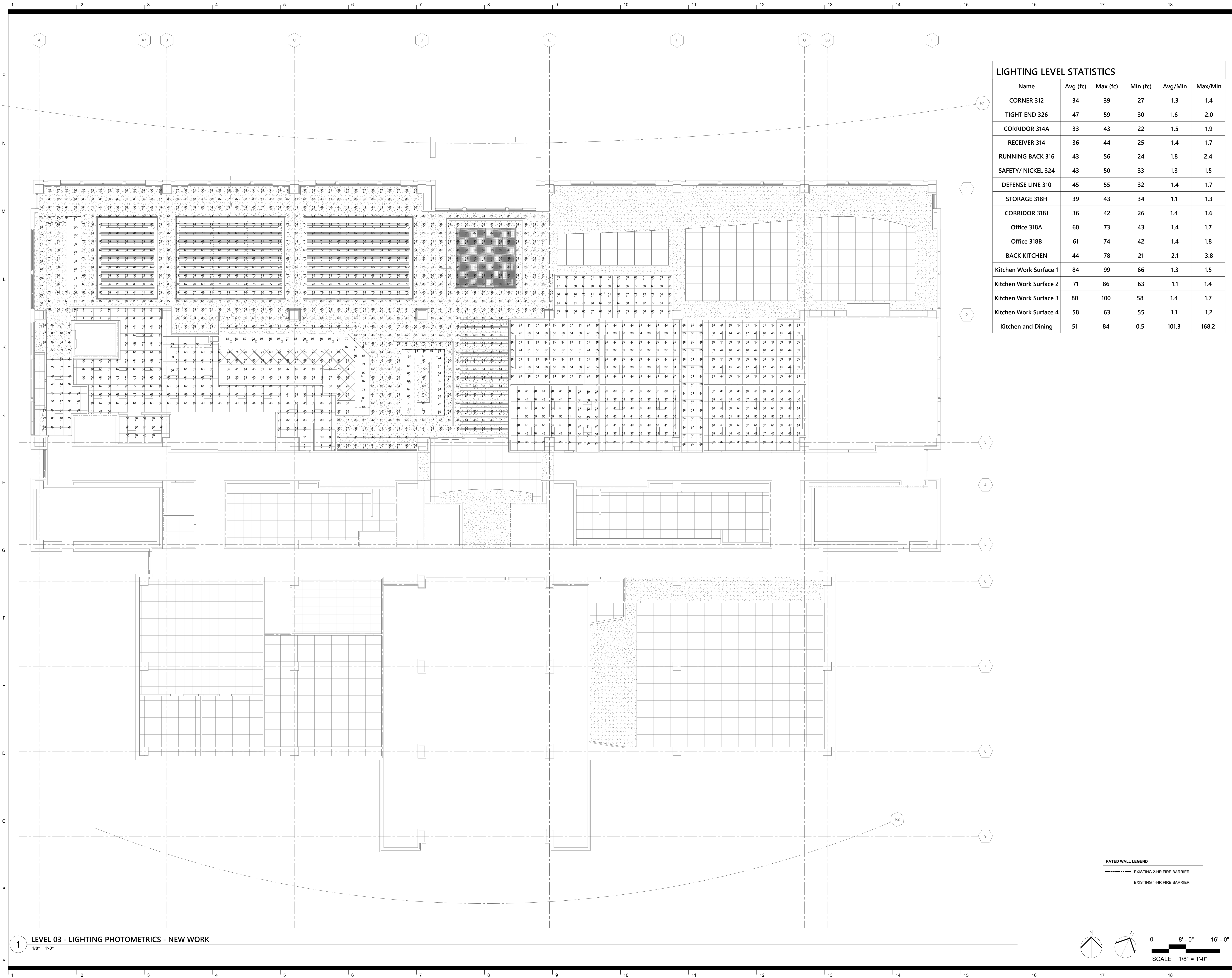
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**LEVEL 03 -
LIGHTING PLANS -
ALTERNATE #2**

sheet number

E3.02A



LIGHTING LEVEL STATISTICS					
Name	Avg (fc)	Max (fc)	Min (fc)	Avg/Min	Max/Min
CORNER 312	34	39	27	1.3	1.4
TIGHT END 326	47	59	30	1.6	2.0
CORRIDOR 314A	33	43	22	1.5	1.9
RECEIVER 314	36	44	25	1.4	1.7
RUNNING BACK 316	43	56	24	1.8	2.4
SAFETY/ NICKEL 324	43	50	33	1.3	1.5
DEFENSE LINE 310	45	55	32	1.4	1.7
STORAGE 318H	39	43	34	1.1	1.3
CORRIDOR 318J	36	42	26	1.4	1.6
Office 318A	60	73	43	1.4	1.7
Office 318B	61	74	42	1.4	1.8
BACK KITCHEN	44	78	21	2.1	3.8
Kitchen Work Surface 1	84	99	66	1.3	1.5
Kitchen Work Surface 2	71	86	63	1.1	1.4
Kitchen Work Surface 3	80	100	58	1.4	1.7
Kitchen Work Surface 4	58	63	55	1.1	1.2
Kitchen and Dining	51	84	0.5	101.3	168.2



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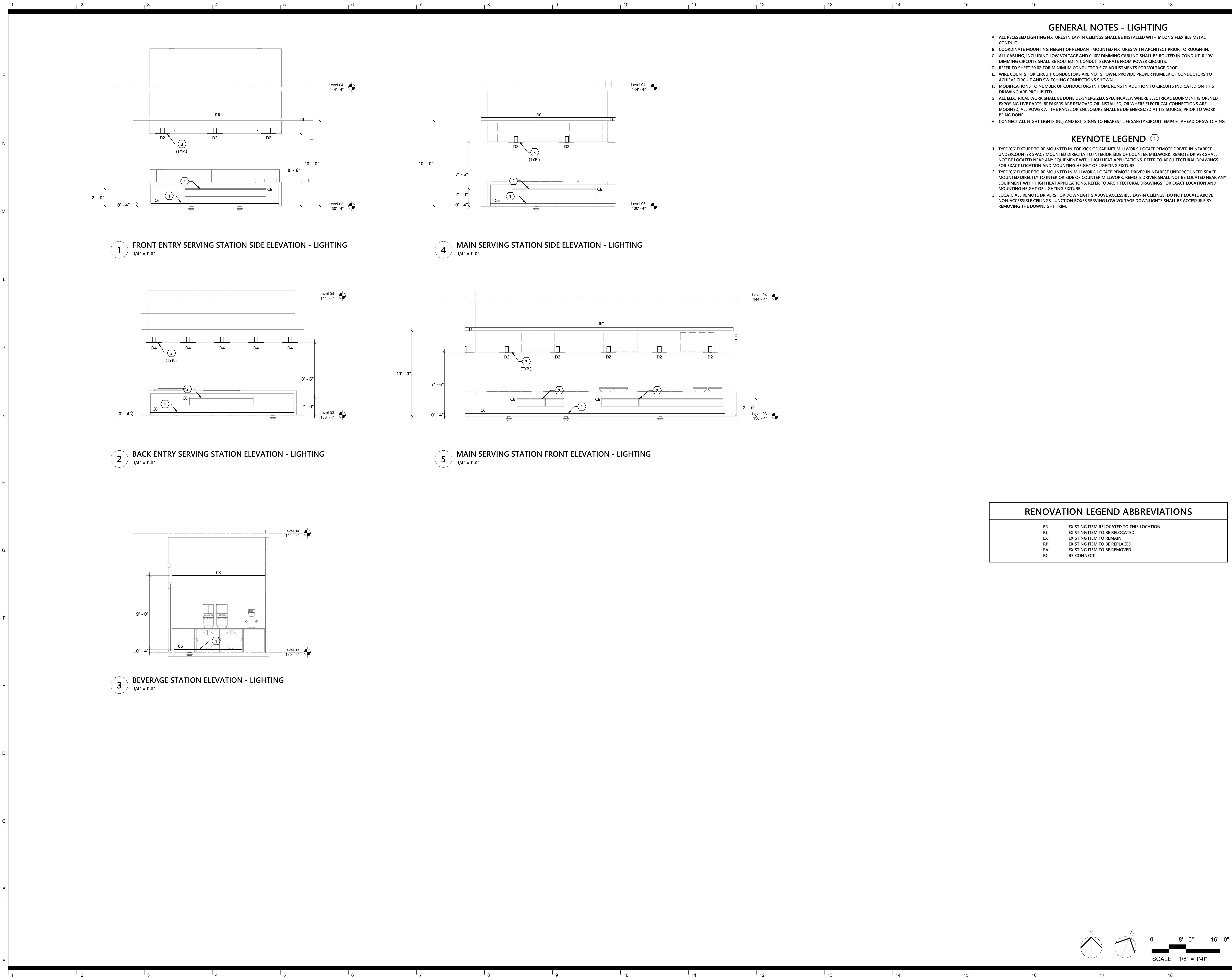
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**LEVEL 03 -
LIGHTING
PHOTOMETRICS**

sheet number

E3.03



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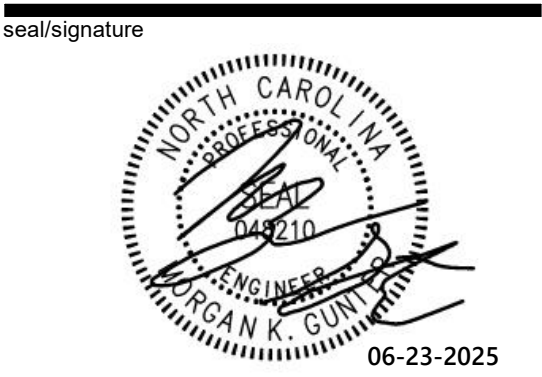
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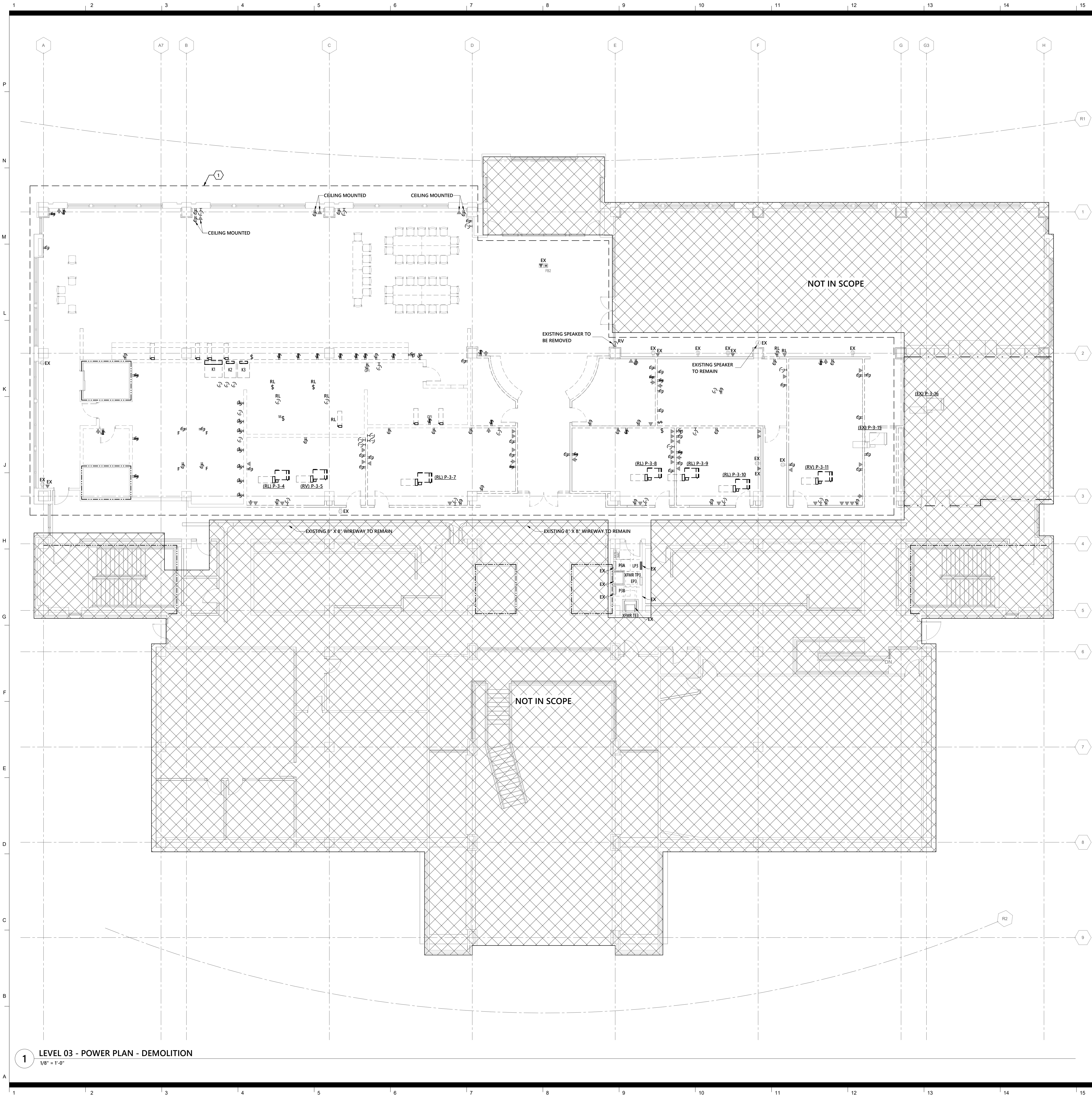


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GENERAL NOTES - DEMOLITION

- A. SEE ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR PHASES OF DEMOLITION AND CONSTRUCTION. COORDINATE WITH GENERAL CONSTRUCTION.
- B. DISCONNECT AND REMOVE ALL ELECTRICAL DEVICES AND LIGHTING FIXTURES IN DEMOLITION AREAS UNLESS NOTED OTHERWISE.
- C. DISCONNECT AND REMOVE ALL ELECTRICAL DEVICES IN WALLS TO BE DEMOLISHED. WALLS TO BE DEMOLISHED ARE SHOWN DASHED. DISCONNECT AND REMOVE ASSOCIATED CONDUIT AND WIRE BACK TO LAST REMAINING DEVICE. FURNISH AND INSTALL CONDUIT AND WIRE AS NECESSARY FOR CONTINUITY OF CIRCUITS TO ANY EXISTING DEVICES TO REMAIN. COORDINATE AND VERIFY REQUIREMENTS WITH NEW WORK IN AREA.
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- F. DISCONNECT AND REMOVE LIGHT SWITCHES IN DEMOLITION AREAS AS NECESSARY TO ACCOMMODATE NEW DOOR CONFIGURATIONS.
- G. DISCONNECT AND REMOVE ANY EXISTING ELECTRICAL DEVICES AND BACK BOXES AS NECESSARY WHERE NEW WALL CONSTRUCTION WILL INTERSECT AN EXISTING WALL. FURNISH AND INSTALL CONDUIT AND WIRE AS REQUIRED FOR CONTINUITY OF CIRCUITS.
- H. FURNISH AND INSTALL BLANK COVER PLATES OVER ALL EXISTING UNUSED OPENINGS.
- I. COORDINATE THE REMOVAL OF ANY WIRELESS ACCESS POINTS, DATA OUTLETS, AND CABLING WITH NCSU COMTECH PRIOR TO DEMOLITION PHASE.

KEYNOTE LEGEND

- 1 ALL DASHED ITEMS WITHIN THIS AREA OF WORK ARE TO BE REMOVED UNLESS OTHERWISE NOTED. ALL SCRAP METAL AND WIRING TO BE SOURCE SEPARATED AND RECYCLED. COORDINATE PHASED RECYCLING PLAN WITH NCSU WASTE REDUCTION & RECYCLING PRIOR TO DEMOLITION PHASE.

RENOVATION LEGEND ABBREVIATIONS

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RL	EXISTING ITEM TO BE RELOCATED.
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RV	EXISTING ITEM TO BE REMOVED.
RC	RE-CONNECT

RATED WALL LEGEND	
----	EXISTING 2-HR FIRE BARRIER
----	EXISTING 1-HR FIRE BARRIER



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**LEVEL 03 - POWER
PLAN - DEMOLITION**

sheet number

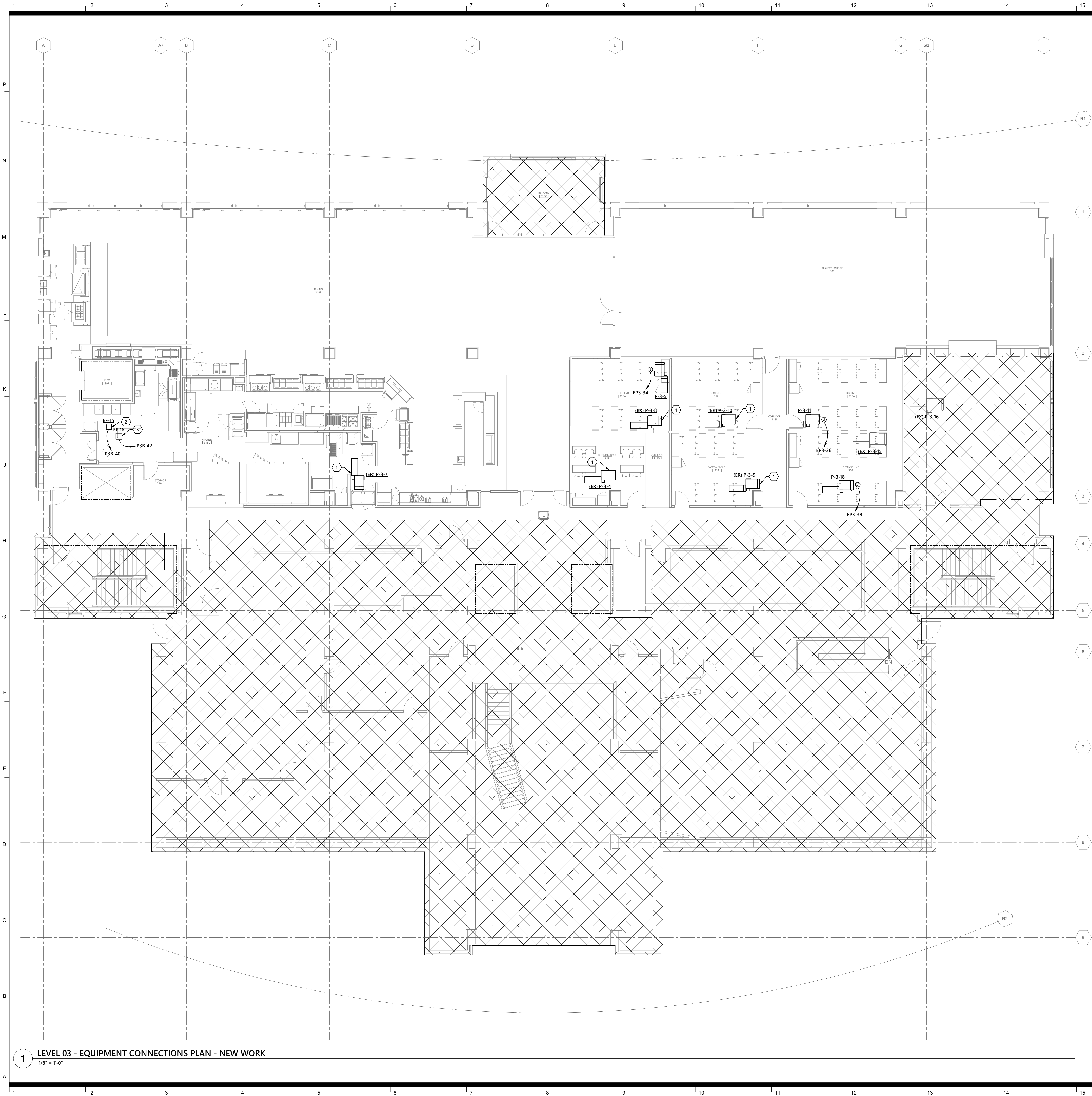
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OPTIMA# 24-0096R Sheet No. 12 of 24

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RL	EXISTING ITEM TO BE RELOCATED.
EX	EXISTING ITEM TO REMAIN.
RP	EXISTING ITEM TO BE REPLACED.
RV	EXISTING ITEM TO BE REMOVED.
RC	RE-CONNECT

SCALE 1/8" = 1'-0"

1/8" = 1'-0"



GENERAL NOTES - POWER

- A. WHERE CONNECTED TO A 20A. BRANCH CIRCUIT SUPPLYING AN INDIVIDUAL RECEPTACLE (SIMPLEX OR DUPLEX), THE RECEPTACLE SHALL BE RATED AT 20A.
- B. PROVIDE HOUSEKEEPING PADS FOR ALL FLOOR MOUNTED AND GRADE MOUNTED ELECTRICAL EQUIPMENT. MINIMUM REQUIREMENTS: 4" HIGH, 4% AIR ENTRAINED, POLYFIBER REINFORCED CONCRETE, 4" WIDER AND 4" LONGER THAN EQUIPMENT TO BE PLACED ON IT. REFER TO ELECTRICAL DETAIL DRAWINGS FOR TRANSFORMER, GENERATOR, OR SWITCHGEAR PADS THAT MAY EXCEED THESE REQUIREMENTS.
- C. REFER TO SECTION 26 0519 FOR MINIMUM CONDUCTOR SIZE ADJUSTMENTS FOR VOLTAGE DROP.
- D. WIRE COUNTS FOR CIRCUIT CONDUCTORS ARE NOT SHOWN. PROVIDE PROPER NUMBER OF CONDUCTORS TO ACHIEVE CIRCUIT AND SWITCHING CONNECTIONS SHOWN.
- E. MODIFICATIONS TO NUMBER OF CONDUCTORS IN HOME RUNS IN ADDITION TO CIRCUITS INDICATED ON THIS DRAWING ARE PROHIBITED.
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KEYNOTE LEGEND

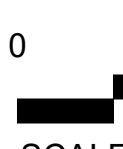
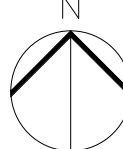
- 1 EXISTING FAN POWERED VAV UNIT TO BE RELOCATED. EXTEND CONDUIT AND CONDUCTORS AS NEEDED TO RETAIN EXISTING CIRCUITRY.
- 2 ON/OFF WALL SWITCH CONTROL PROVIDED BY M.C. COORDINATE PRIOR TO ROUGH-IN.
- 3 INTERLOCK EXHAUST FAN WITH DISHWASHER LOCATED IN KITCHEN. PROVIDE WITH RELAY, CONNECT COMPLETE.

RENOVATION LEGEND ABBREVIATIONS

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RC	RE-CONNECT

RATED WALL LEGEND

---	EXISTING 2-HR FIRE BARRIER
---	EXISTING 1-HR FIRE BARRIER



SCALE 1/8" = 1'-0"



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220 N Ames St., Suite 101
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**Wendell H. Murphy
Football Center -
Kitchen Renovation**

SCO ID: 24-28146-01A
NCSU Project #: 202320015
Code: 42324 Item: 305
NCSU Building #:135F

seal/signature



rev date description

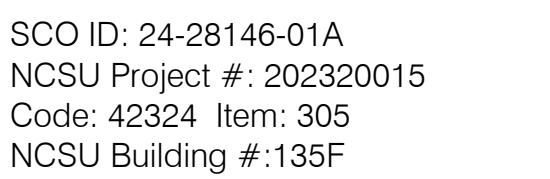
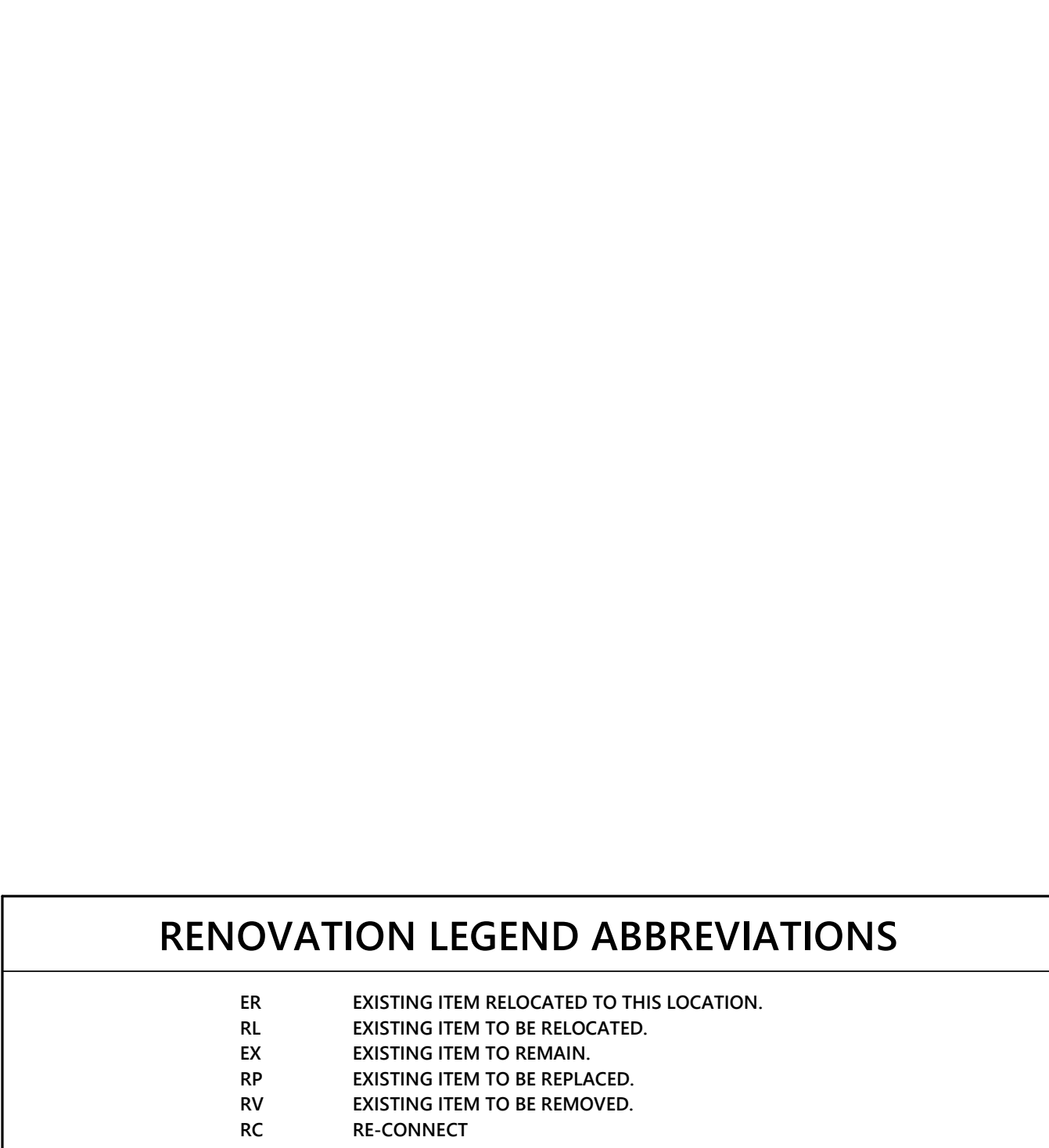
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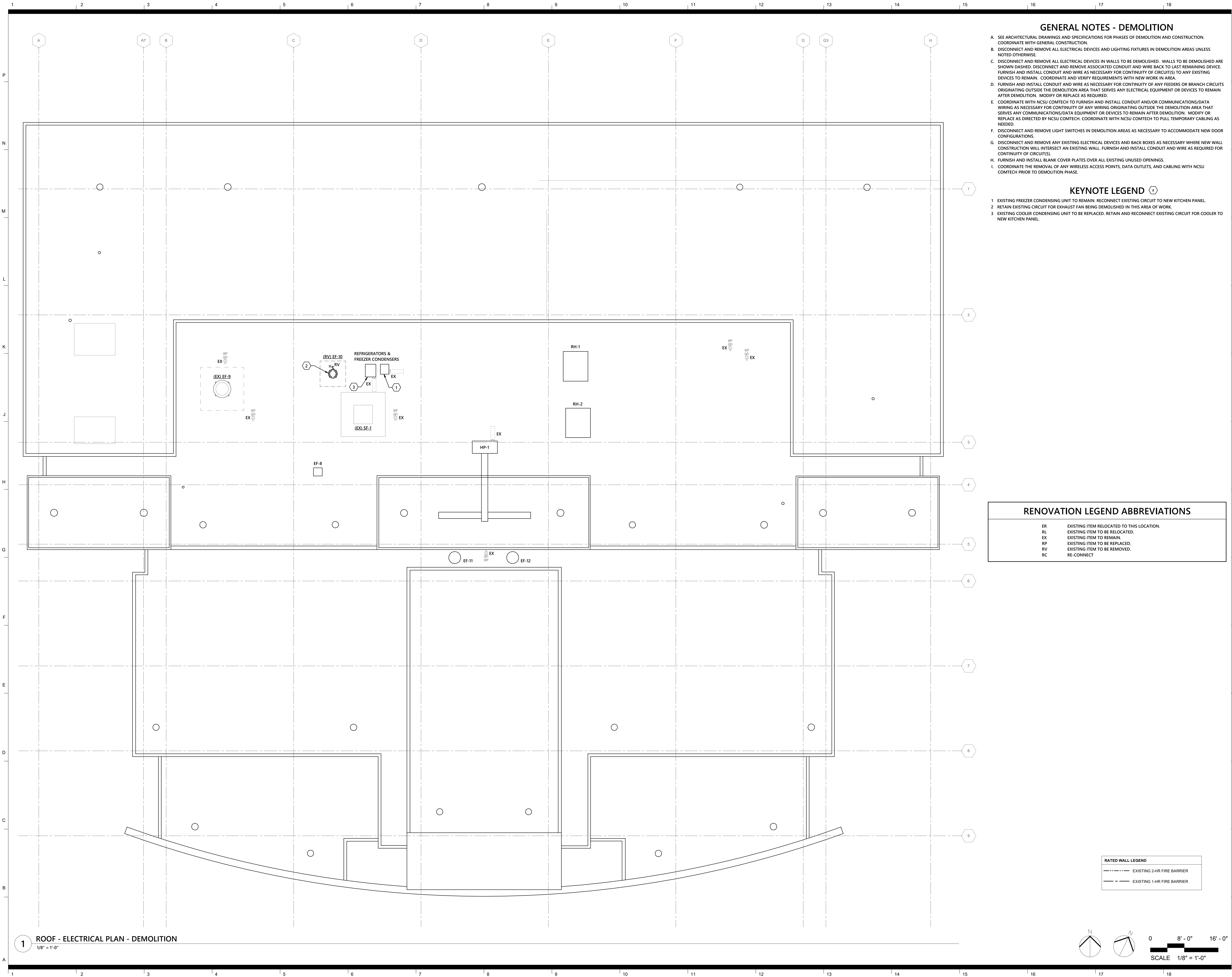
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project number 2308

**LEVEL 03 -
EQUIPMENT
CONNECTIONS
PLAN - NEW WORK**

sheet number

E3.07





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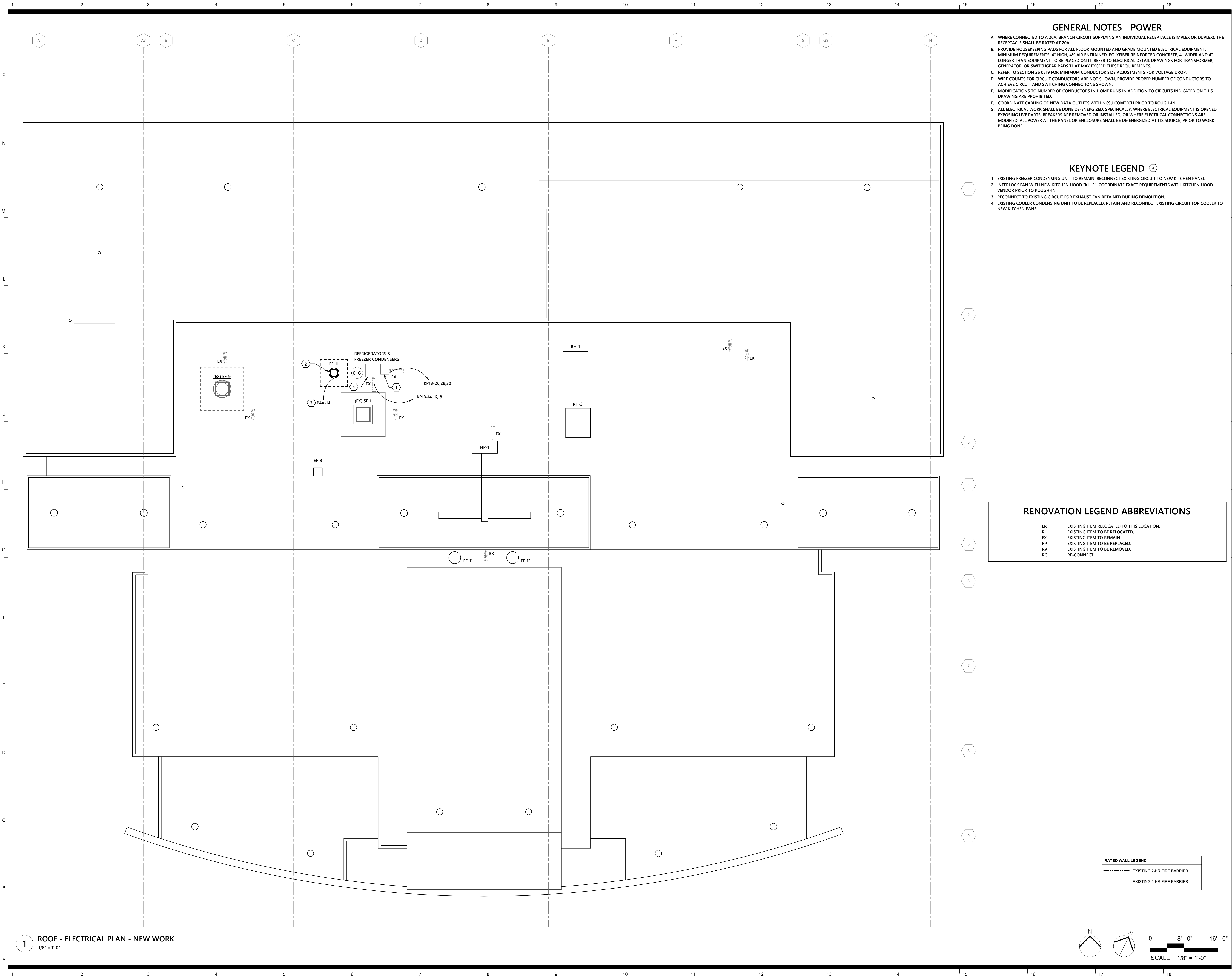
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**ROOF - ELECTRICAL
PLAN - DEMOLITION**

sheet number

E4.01



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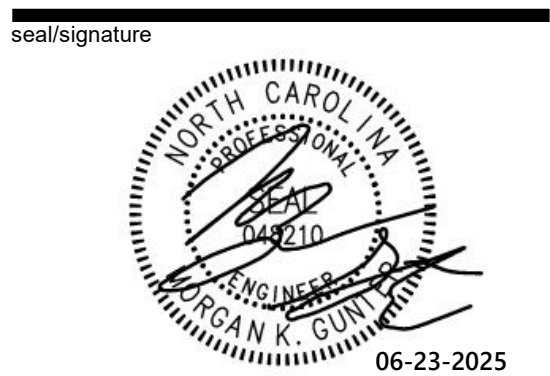
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rev	date	description
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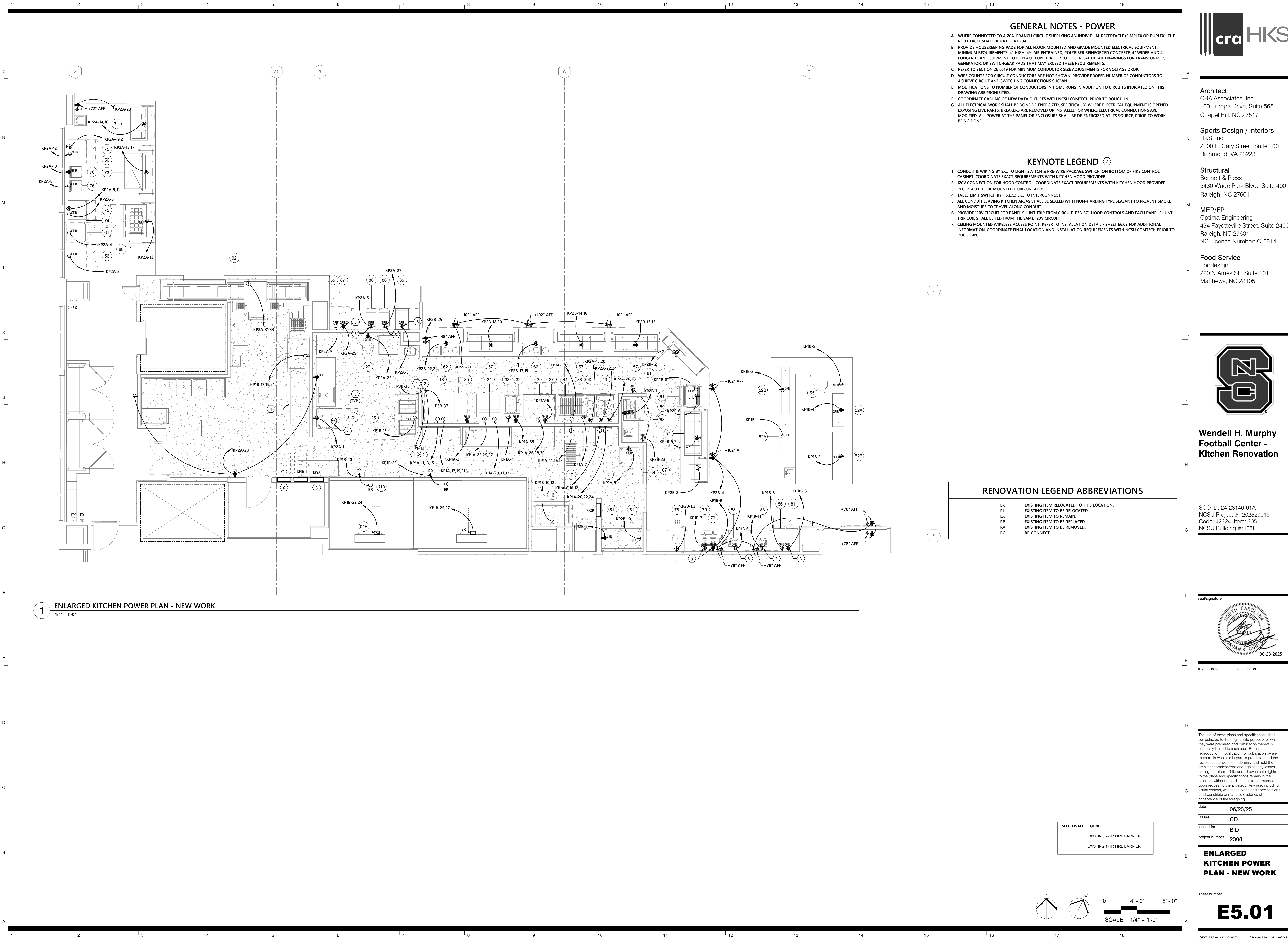
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**ROOF - ELECTRICAL
PLAN - NEW WORK**

sheet number

E4.02



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FOODSERVICE EQUIPMENT SCHEDULE

QTY	ITEM	DESCRIPTION	MANUFACTURER	MODEL	ITEM	ELECTRICAL						REMARKS	DISCONNECT SIZE	CONDUIT AND CONDUCTOR SIZE		
						ELECTRIC AL A.F.F.	KW	HP	AMPS	VOLTS	PHASE	NEMA				
1	02	CONVEYOR	BI-LINE	ACCUMULATOR CUSTOM		50"			15.0A	208V	1	DIRECT	L-SHAPED, PRE-RINSE SPRAY, UNDERMOUNT HOSE REEL, LEVER DRAIN, SCRAP BASKET	LOCKABLE CB	3#12,1#12G, 3/4"C.	
1	05	DISHWASHER, CONVEYOR TYPE	HOBART	CL44-ADV		64"	B:12.0		109.6 A	208 V	3	(1)	B-BOOSTER, DRAIN WATER TEMPERING KIT, VENT COWLS, TALL CHAMBER	200A-F100A-3P-4X STAINLESS STEEL	4#1,1#6G, 1-1/2"C.	
1	16	ICE MAKER, CUBE STYLE	EXISTING	RESET		68"			12.4 A	208 V	1	DIRECT	WATER FILTER, BACKFLOW PREVENTION DEVICE, ICE BIN	LOCKABLE CB	3#12,1#12G, 3/4"C.	
1	17	ELECTRIC TILTING SKILLET	EXISTING	RESET		24"			33.3 A	208 V	3	DIRECT	FILL FAUCET	LOCKABLE CB	4#8,1#10G, 1"C.	
1	18	COMBI OVEN, ELECTRIC DBL. STACKED	EXISTING	RESET		24"/50"			124.0 A	208 V	3	(2) DIRECT	F.S.E.C. TO VERIFY EXISTING UTILITIES	(2) LOCKABLE CB	(2) 4#3,1#8G, 1-1/4"C.	
1	19A	EXHAUST HOOD	CAPTIVEAIRE	ND2		ABV.			20.0 A	120 V	1	(2) DIRECT	* SEE VENTILATION CONNECTION SCHEDULE	(2) MOTOR RATED SWITCH	(2) 2#12,1#12G, 3/4"C.	
1	23	HEATED HOLDING CABINET	EXISTING	RESET		50"			19.1 A	120 V	1	5-20P	F.S.E.C. TO VERIFY EXISTING UTILITIES	DUPLEX RECEPTACLE	2#12,1#12G, 3/4"C.	
1	25	ROLL-IN REFRIGERATOR	CONTINENTAL REFRIGERATOR	DL48GSA-E		50"		0.5	10.3 A	120 V	1	5-15P		DUPLEX RECEPTACLE	2#12,1#12G, 3/4"C.	
1	27	20 QT MIXER	EXISTING	RESET		50"		1/2	8.0 A	120 V	1	5-15P	F.S.E.C. TO VERIFY EXISTING UTILITIES	DUPLEX RECEPTACLE	2#12,1#12G, 3/4"C.	
1	32	WORKTOP FREEZER	CONTINENTAL REFRIGERATOR	SWF27NBS		24"		1/4	4.0 A	120 V	1	5-15P	CASTERS, DOOR HINGED ON RIGHT	DUPLEX RECEPTACLE	2#12,1#12G, 3/4"C.	
1	33	FRY HOLDING STATIONS	HATCO CORPORATION	GRFHS-PT16		50"			9.1 A	120 V	1	5-15P	TOGGLE SWITCH	DUPLEX RECEPTACLE	2#12,1#12G, 3/4"C.	
1	34	ELECTRIC FRYER, BATTERY	EXISTING	RESET		(2) 24"			47.0 A	208 V	3	(2) DIRECT	F.S.E.C. TO VERIFY EXISTING UTILITIES	(2) LOCKABLE CB	(2) 4#4,1#10G, 1-1/4"C.	
1	35	REFRIGERATOR, REACH-IN	CONTINENTAL REFRIGERATOR	1RENSAHD		24"		0.25	5.2 A	120 V	1	5-15P	CASTERS, DOOR HINGE ON RIGHT	DUPLEX RECEPTACLE	2#12,1#12G, 3/4"C.	
2	36	RAPID COOK OVEN	TURBOCHEF	BULLET		50"						1	6-30P	STACKING KIT, EQUIPMENT STAND	(2) LOCKABLE CB	(2) 4#3,1#8G, 1-1/4"C.
1	37	EQUIPMENT STAND, FREEZER BASE	CONTINENTAL REFRIGERATOR	DL48GF		24"		1/4	5.7 A	120 V	1	5-15P	CASTERS, CONDENSING UNIT ON LEFT	DUPLEX RECEPTACLE	2#12,1#12G, 3/4"C.	
1	38	EQUIPMENT STAND, REFRIGERATED BASE	CONTINENTAL REFRIGERATOR	D84GN		24"		1/4	5.9 A	120 V	1	5-15P	CASTERS, CONDENSING UNIT ON LEFT	DUPLEX RECEPTACLE	2#12,1#12G, 3/4"C.	
1	39	GRIDDLE, ELECTRIC, COUNTERTOP	EXISTING	RESET		50"			67.4 A	208 V	3	DIRECT	F.S.E.C. TO VERIFY EXISTING UTILITIES			
1	41	COUNTERTOP CHAR BROILER	WELLS BLOOMFIELD	B-50		50"			30.0 A	208 V	3	DIRECT		LOCKABLE CB LOCKABLE CB	4#2,1#8G, 1-1/4"C. 4#8,1#10G, 1"C.	
1	42	INDUCTION RANGE COUNTERTOP	VOLLRATH	912HDC		50"			24.0 A	208 V	1	6-30P		RECEPTACLE	3#8,1#10G, 1"C.	
1	43	INDUCTION RANGE COUNTERTOP	VOLLRATH	924HDC		(2) 50"			24.0 A	208 V	1	(2) 6-30P		(2) RECEPTACLE	(2) 3#8,1#10G, 1"C.	
1	44	EXHAUST HOOD	EXISTING	TO REMAIN		(2) ABV.			20.0 A	120 V	1	(2) DIRECT	F.S.E.C. TO VERIFY EXISTING UTILITIES	(2) MOTOR RATED SWITCH	(2) 2#12,1#12G, 3/4"C.	
2	51	PASS-THRU REFRIGERATOR	EVEREST	ESPT-1G-1S		90"			4.0 A	120 V	1	5-15P	DOOR HINGE ON RIGHT, CASTERS	DUPLEX RECEPTACLE	2#12,1#12G, 3/4"C.	
2	52A	DROP-IN, COLD FOOD WELL UNIT	DUKE	ADI-2MDSL-N7		CTR.		1/4	4.3 A	120 V	1	5-15P		DUPLEX RECEPTACLE	2#12,1#12G, 3/4"C.	
2	52B	DROP-IN, COLD FOOD WELL UNIT	DUKE	ADI-3MDSL-N7		CTR.		1/4	4.3 A	120 V	1	5-15P		DUPLEX RECEPTACLE	2#12,1#12G, 3/4"C.	
2	55	UNDERCOUNTER REFRIGERATOR	CONTINENTAL REFRIGERATOR	SW27N-U		CTR./24"		1/5	2.5 A	120 V	1	5-15P	LOW PROFILE CASTERS, DOOR HINGE ON RIGHT	DUPLEX RECEPTACLE	2#12,1#12G, 3/4"C.	
3	56	UNDERCOUNTER REFRIGERATOR	CONTINENTAL REFRIGERATOR	SW36N-U		24"		1/5	2.5 A	120 V	1	5-15P	LOW PROFILE CASTERS, LEFT DOOR HINGED ON LEFT & RIGHT DOOR HINGE ON RIGHT	DUPLEX RECEPTACLE	2#12,1#12G, 3/4"C.	
4	57	DROP-IN, HOT/COLD/FREEZE	DUKE	HCF-4		CTR.			21.0 A	120 V	1	L14-30P		RECEPTACLE	3#10,1#10G, 3/4"C.	
1	59	CARVING STATION/SHELF	HATCO	DCSB-3624-2		CTR.			18.4 A	208 V	1	L14-30P		DUPLEX RECEPTACLE	2#12,1#12G, 3/4"C.	
3	61	COOK & HOLD OVEN	ALTO-SHAAM	750-TH		CTR./24"			14.0 A	120 V	1	5-15P	LOW PROFILE CASTERS, S/S EXTERIOR, DOOR HINGE ON RIGHT	DUPLEX RECEPTACLE DUPLEX RECEPTACLE	2#12,1#12G, 3/4"C. 2#12,1#12G, 3/4"C.	
2	62	INDUCTION RANGE, BUILT-IN/DROP-IN	SPRING USA	ICB348-26		CTR.			35.0 A	208 V	1	14-50P		RECEPTACLE	3#6,1#10G, 3/4"C.	
1	63	SANDWICH UNIT, REFRIGERATED	CONTINENTAL REFRIGERATOR	SW32N8-FB		24"		1/5	2.5 A	115 V	1	5-15P	DOOR HINGE ON RIGHT, CASTERS	DUPLEX RECEPTACLE	2#12,1#12G, 3/4"C.	
1	64	REACH-IN FREEZER	CONTINENTAL REFRIGERATOR	1FESNSA		24"		1/4	7.6 A	120 V	1	5-15P	CASTERS, DOOR HINGE ON RIGHT	DUPLEX RECEPTACLE	2#12,1#12G, 3/4"C.	
1	67	SOUP WELL	DUKE	ADI-1E-SW		CTR.			6.3 A	120 V	1	DIRECT				
1	69	SANDWICH / SALAD PREP REFRIGERIGERATOR	CONTINENTAL REFRIGERATOR	D48N18M		CTR.		1/4	4.5 A	120 V	1	5-15P	LEFT DOOR HINGED ON LEFT & RIGHT DOOR HINGED ON RIGHT, S/S FLAT COVER	LOCKABLE CB DUPLEX RECEPTACLE	2#12,1#12G, 3/4"C. 2#12,1#12G, 3/4"C.	
1	71	DROP-IN, HOT/COLD/FREEZE	DUKE	HCF-3		CTR.			16.0 A	120 V	1	14-20P				
1	73	GRIDDLE, ELECTRIC	EVO	10-0148-EVT		CTR.			18.4 A	208 V	1	L14-30P	CASTERS	RECEPTACLE	3#10,1#10G, 3/4"C.	
1	74	REACH-IN UNDERCOUNTER FREEZER	CONTINENTAL FREEZER	SWF27N-U		24"		1/4	4.0 A	120 V	1	5-15P	DOOR HINGED ON RIGHT	RECEPTACLE DUPLEX RECEPTACLE	3#8,1#10G, 1"C. 2#12,1#12G, 3/4"C.	
2	75	MICROWAVE/IMPINGEMENT OVEN	TURBO CHEF	i5-9500-1		50"			48.0 A	208 V	1	6-50P				
2	76	PANINI GRILL	WARING COMMERCIAL	WDG250		50"			15.0 A	120 V	1	6-150P		RECEPTACLE DUPLEX RECEPTACLE	3#4,1#10G, 1-1/4"C. 2#12,1#12G, 3/4"C.	
1	78	SOFT SERVE MACHINE	STOELTING	O431-3812F		50"		1.5	15.0 A	208 V	1	L6-30P		RECEPTACLE	3#10,1#10G, 3/4"C.	
2	79	WAFFLE MAKER/BAKER	HATCO	FWM-1B		50"			11.3 A	120 V	1	5-15P		DUPLEX RECEPTACLE	2#12,1#12G, 3/4"C.	
1	81	MILK DISPENSER	SILVER KING	EXISTING		50"			1.4 A	120 V	1	5-15P	F.S.E.C. TO VERIFY EXISTING UTILITIES	DUPLEX RECEPTACLE	2#12,1#12G, 3/4"C.	
2	83	POP-UP TOASTER	HATCO	TPT-120		50"			12.0 A	120 V	1	5-15P		DUPLEX RECEPTACLE	2#12,1#12G, 3/4"C.	
1	85	SODA ICE & BEVERAGE DISPENSER	CORNELIUS	EXISTING		50"			3.0 A	120 V	1	CORD & PLUG	F.S.E.C. TO VERIFY EXISTING UTILITIES	DUPLEX RECEPTACLE	2#12,1#12G, 3/4"C.	
2	86	JUICE DISPENSER	BUNN	EXISTING		50"			6.0 A	120 V	1	5-20P	F.S.E.C. TO VERIFY EXISTING UTILITIES			
1	87	COFFEE BREWER	BUNN	EXISTING		50"			14.0 A	120 V	1	5-15P		DUPLEX RECEPTACLE	2#12,1#12G, 3/4"C.	
1	88	COFFEE GRINDER	BUNN	22100.0000		50"			11.0 A	120 V	1	5-15P		DUPLEX RECEPTACLE	2#12,1#12G, 3/4"C.	

KITCHEN SCHEDULE NOTES:

1. THE ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL AS REQUIRED ALL DISCONNECT SWITCHES, RECEPTACLES, ETC. TO MECHANICAL, PLUMBING, AND KITCHEN EQUIPMENT COMPLETELY. THE ELECTRICAL CONTRACTOR SHALL ALSO PROVIDE ALL
CORDS, PLUGS, CABLES, ETC., ON REQUIRING SUCH ITEMS.
2. THE ELECTRICAL CONTRACTOR SHALL PROVIDE FINAL CONNECTIONS TO ALL MECHANICAL, PLUMBING AND KITCHEN EQUIPMENT AS REQUIRED.
3. ALL DISCONNECT SWITCHES, FUSE SIZES, PLUG CONFIGURATIONS, BREAKER SIZES, WIRE SIZES, ETC., SHALL BE COORDINATED WITH SHAP DRAWINGS PRIOR TO INSTALLING. ANY EQUIPMENT INSTALLED INCORRECTLY BECAUSE OF LACK OF
COORDINATION WILL BE REMOVED.
4. ELECTRICAL CONTRACTOR SHALL PROVIDE A GROUND WIRE AND A NEUTRAL WITH ALL CIRCUITS, WHETHER SO DESIGNATED OR NOT.
5. ALL 15 AND 20 AMP RECEPTACLES IN FOOD PREP AREA SHALL BE GFI, UNLESS NOTES TO BE PROVIDED WITH A GFI BREAKER.

REFRIGERATION CONNECTION SCHEDULE						
CONN.	EQUIPMENT	LOAD	V/PH	REMARKS	DISCONNECT SIZE	CONDUCTOR AND CONDUIT SIZE
01A	LIGHTS, COOLER	200 W	120/1	1 EXTRA LIGHT	SINGLE POLE SWITCH	2#12,1#12G, 3/4"C.
01B	EVAP. COIL, COOLER	1.0 A	208/1	---	30A-2P-3R	3#12,1#12G, 3/4"C.
01C	COND. UNIT, COOLER	9.5 MCA	208/3	---	30A/FPN-3P-3R	4#12,1#12G, 3/4"C.
89A	LIGHTS & DOOR HEAT	500 W	120/1	1 EXTRA LIGHT	SINGLE POLE SWITCH	2#12,1#12G, 3/4"C.
89B	HEAT TAPE, FREEZER	15.0 A	120/1	DRAINLINE HEAT TAPE	MOTOR RATED SWITCH	2#12,1#12G, 3/4"C.
89C	EVAP. COIL, FREEZER	8.2 A	208/1	FEED DEFROST THRU TIMER @ COND. UNIT	30A-2P-3R	3#12,1#12G, 3/4"C.
89D	COND. UNIT, FREEZER	21.6 MCA	208/1		30A/FPN-2P-3R	3#10,1#10G, 3/4"C.

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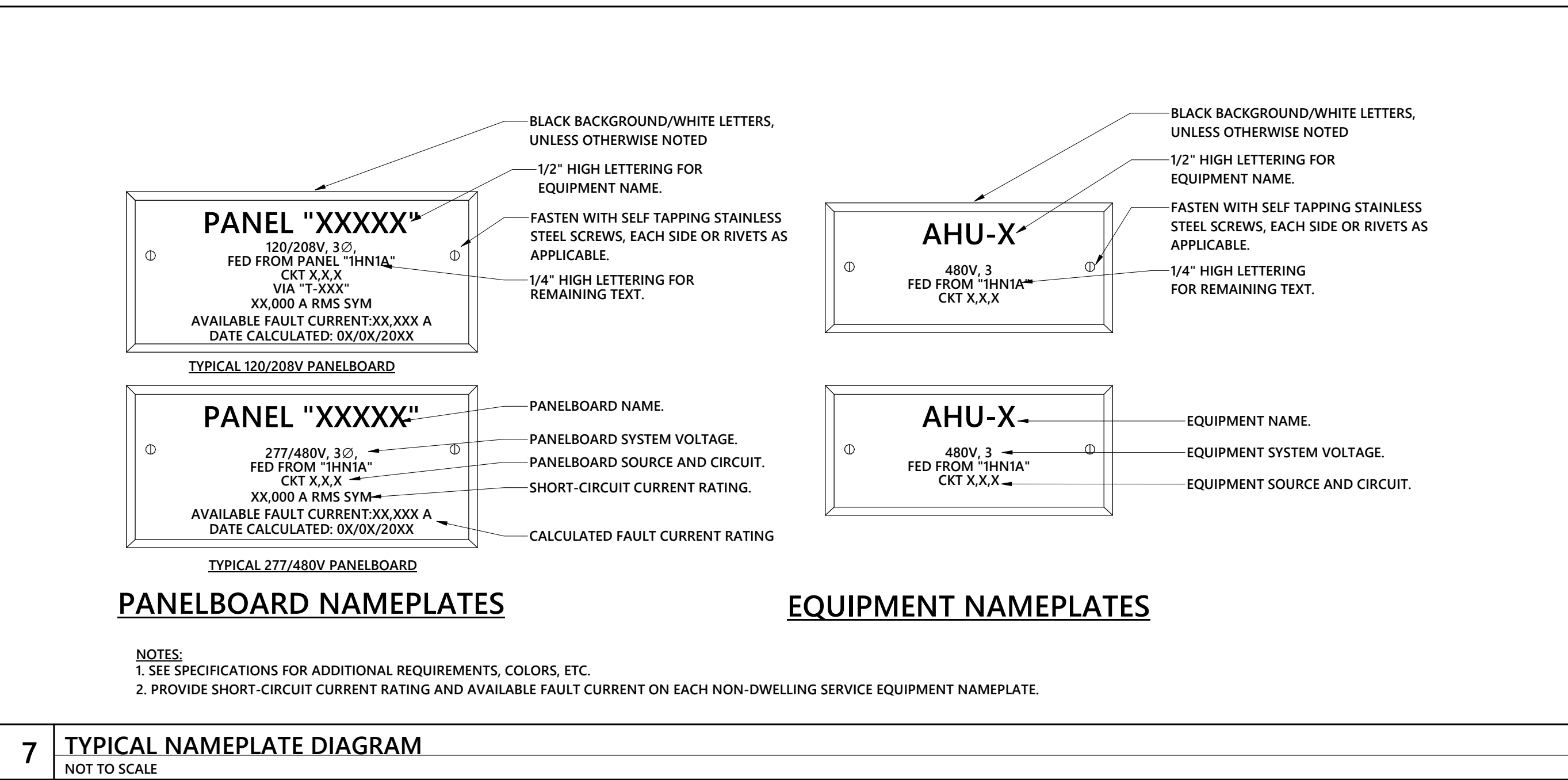
KITCHEN
EQUIPMENT
SCHEDULES

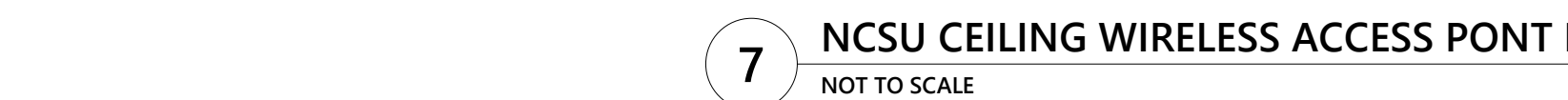
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OPTIMAR 24-0096R

Sheet No. 18 of 24





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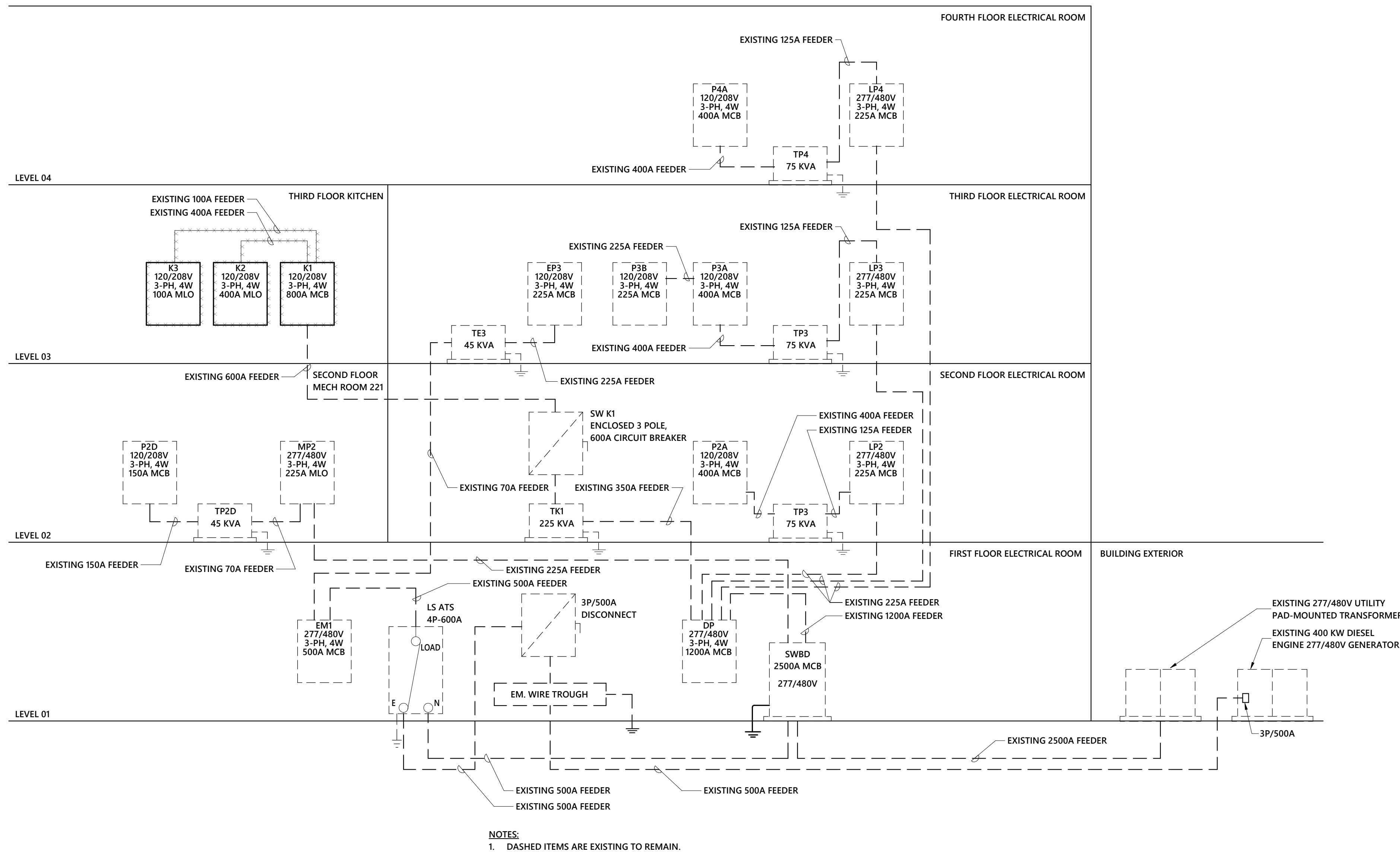
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**ELECTRICAL
DIAGRAMS**

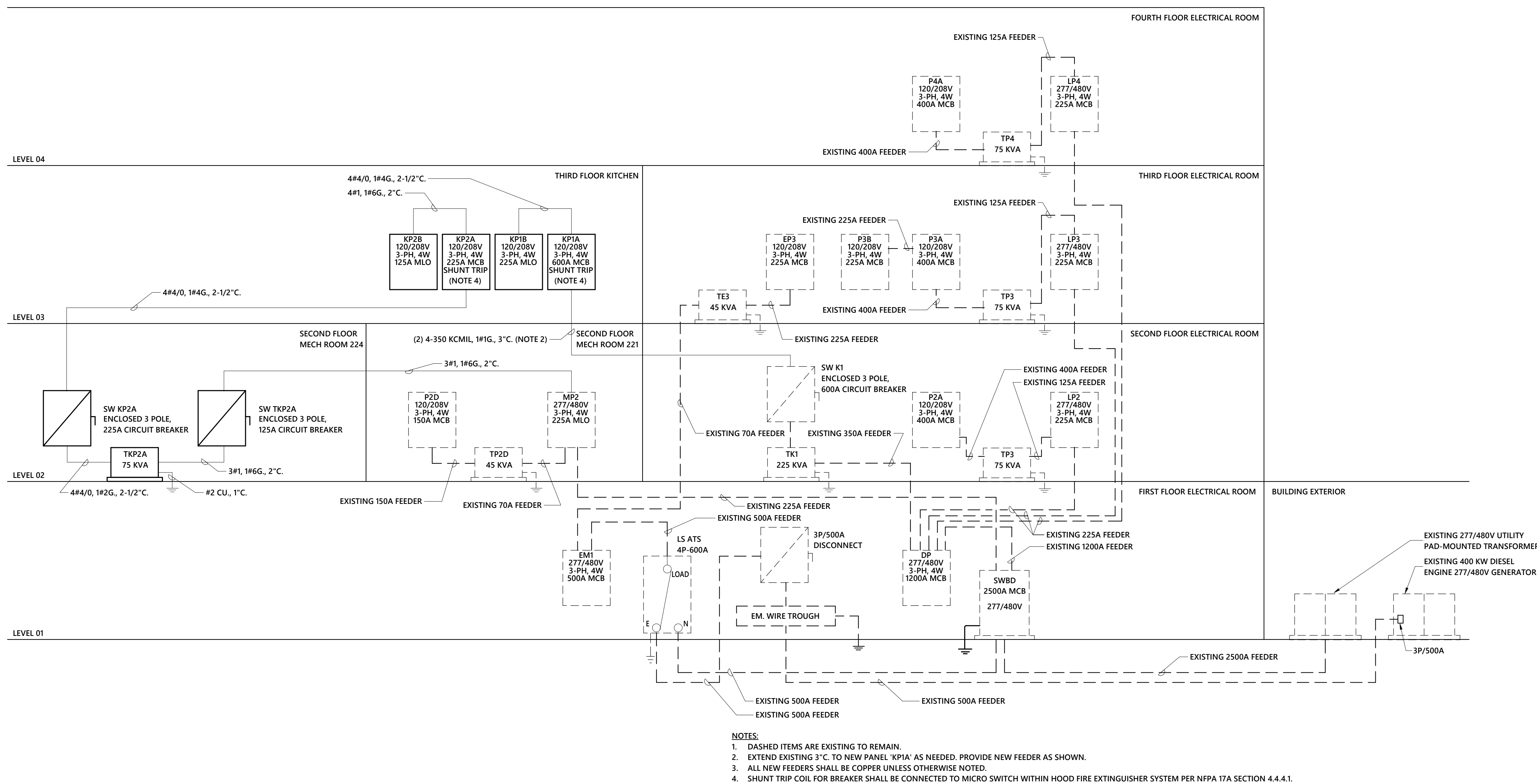
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E7.01

'SWBD' LOAD SUMMARY	
PEAK DEMAND:	560.70 KVA
125% PEAK DEMAND:	700.87 KVA
DEMAND LOAD REMOVED PER AS-BUILTS:	
LIGHTS:	25.58 KVA
RECEPTACLES:	11.48 KVA
MISCELLANEOUS:	10.50 KVA
KITCHEN:	230.60 KVA
SUBTOTAL: 278.16 KVA	
CONNECTED LOADS ADDED:	
LIGHTS:	6.78 KVA
RECEPTACLES:	17.52 KVA
MISCELLANEOUS:	38.56 KVA
KITCHEN:	304.03 KVA
MOTORS:	3.24 KVA
DEMAND LOADS ADDED:	
LIGHTS @ 125%:	8.48 KVA
RECEPTACLES:	
1ST 10KVA @ 100%:	10 KVA
REMAINING @ 50%:	3.76 KVA
MISC. @ 100%:	38.56 KVA
KITCHEN @ 65%:	197.62 KVA
MOTORS @ 100%:	3.24 KVA
SUBTOTAL: 261.66 KVA	
EXISTING MAIN DISTRIBUTION PANEL 'SWBD' IS A 277/480V, 3-PHASE, 2500A MAIN CIRCUIT BREAKER PANEL. EXISTING PEAK DEMAND BASED ON PREVIOUS RECORDS IS 560.699 KVA. LOAD ON PANEL AFTER DEMOLITION AND CONSTRUCTION WAS REDUCED OVERALL ON PANEL 'SWBD'.	
NEW DEMAND 'SWBD': 544.98 KVA ; 655A @ 277/480V 125% OF DEMAND: 681A ON EXISTING 2500A MCB	



1 PARTIAL POWER RISER DIAGRAM - DEMOLITION
1/8" = 1'-0"



2 PARTIAL POWER RISER DIAGRAM - NEW WORK
1/8" = 1'-0"

VOLTAGE: 480Y/277 3Ø												EXISTING PANEL: MP2												FED FROM: SWBD											
MOUNTING: SURFACE ENCLOSURE: NEMA1 MAIN: 225 A												MAIN TYPE: MLO PHASE: 3 WIRE: 4												MFR: GE TYPE: A SERIES AIC: 42 KAIC											
LC Abbr	Load Served	Wire	Tripp	Ckt No	Pole	A	B	C	Pole	Ckt No	Tripp	Wire	Load Served	LC Abbr	Load Served	Wire	Tripp	Ckt No	Pole	A	B	C	Pole	Ckt No	Tripp	Wire	Load Served	LC Abbr							
MS	HURU-3(A)	E	40	A	3	3	8.12	9.44					3	4	70	A	E	PANEL 'P2D' VIA XFMR 'TP2D'	F																
MS	HURU-3(B)	E	25	A	9	3	5.42	0.59					1	8	20	A	E	2ND FLOOR LIGHTS	L																
MS	HURU-4	E	40	A	15	3	9.23	0.00					1	10	20	A	E	1ST FLOOR LIGHTS	L																
Sp...	SPARE	-	20	A	19	1	0.00	0.00					1	14	20	A	-	SPARE	Sp...																
Sp...	SPARE	-	20	A	21	1							1	16	20	A	-	SPARE	Sp...																
Sp...	SPARE	-	20	A	23	1							1	18	20	A	-	SPARE	Sp...																
Sp...	SPARE	-	20	A	25	1	0.00	34.17					1	20	20	A	-	SPARE	Sp...																
Sp...	SPARE	-	20	A	27	1							1	22	20	A	-	SPARE	Sp...																
Sp...	SPARE	-	20	A	29	1							3	28	125	A	NOTE 8	PANEL 'KP2A' VIA XFMR 'TKP2A'	F																
<div>LOAD</div> <div>Connected Load</div> <div>Demand Factor</div> <div>Estimated Demand</div> <div>NOTES:</div>																																			
L	LIGHTS	1.59	kVA	125.00%				1.99	kVA					1.	BREAKER FRAME SHALL BE AS REQ'D PER PANEL AIC RATING.																				
LE	LIGHTING - EXTERIOR	0.00	kVA	0.00%				0.00	kVA					2.	SHALL BE FULLY RATED - SERIES RATINGS NOT ALLOWED.																				
H	HEATING	0.00	kVA	0.00%				0.00	kVA					3.	ALL BUSSING, INCL GND AND NEUTRAL, SHALL BE COPPER.																				
C	COOLING	0.00	kVA	0.00%				0.00	kVA					4.	ALL INCOMING PANEL & BRKR LUGS SHALL MATCH FEEDERS.																				
V	VENTILATION	0.50	kVA	100.00%				0.50	kVA					5.	PROVIDE NEW TYPEWRITTEN PANELBOARD SCHEDULE.																				
M	MOTORS	0.60	kVA	100.00%				0.60	kVA					6.	"E" DENOTES EXISTING.																				
K	KITCHEN	94.77	kVA	65.00%				61.60	kVA					7.	BOLD INDICATES NEW WORK. PROVIDE ACCORDINGLY.																				
R	RECEPTACLES	17.46	kVA	78.64%				13.73	kVA					8.	REFER TO RISER DIAGRAM / SHEET E7.01 FOR WIRE SIZE.																				
WH	WATER HEATER	0.00	kVA	0.00%				0.00	kVA																										
MS	MISC.	86.83	kVA	100.00%				86.83	kVA																										
S	Spare	0.00	kVA	0.00%				0.00	kVA																										
E	ELEVATOR	0.00	kVA	0.00%				0.00	kVA																										
LD	LAUNDRY	0.00	kVA	0.00%				0.00	kVA																										
EV	EV CHARGING	0.00	kVA	0.00%				0.00	kVA																										
<div>TOTAL KVA (CONNECTED): 201.75 kVA</div> <div>TOTAL PER PHASE: (CONNECTED)</div> <div>LOAD CLASSIFICATION ABBREVIATIONS (CONT.)</div>																																			
<div>TOTAL KVA (DEMAND): 165.25 kVA</div> <div>242.7 A</div> <div>252.3 A</div> <div>235.3 A</div> <div>F - FEEDER FOR DOWN STREAM PANEL LOADS ARE INCLUDED IN THE PANEL LOAD SUMMARY.</div>																																			
<div>TOTAL AMP (CONNECTED): 243 A</div> <div>TOTAL AMP (DEMAND): 199 A</div>																																			

VOLTAGE: 208Y/120 3Ø												EXISTING PANEL: EP3												FED FROM: XFMR TE3											
MOUNTING: SURFACE ENCLOSURE: NEMA1 MAIN: 225 A												MAIN TYPE: MCB PHASE: 3 WIRE: 4												MFR: GE TYPE: A SERIES AIC: 22 KAIC											
LC Abbr	Load Served	Wire	Tripp	Ckt No	Pole	A	B	C	Pole	Ckt No	Tripp	Wire	Load Served	LC Abbr	Load Served	Wire	Tripp	Ckt No	Pole	A	B	C	Pole	Ckt No	Tripp	Wire	Load Served	LC Abbr							
F	PANEL 'EP4'	E	20	A	3	3	6.50	0.20					1	4	20	A	E	P-3-10	M																
M	P-3-1	E	20	A	7	1	0.60	0.70					1	6	20	A	E	P-3-12	M																
M	P-3-2	E	20	A	9	1							1	10	20	A	E	P-3-14	M																
M	P-3-3	E	25	A	11	1							1	12	25	A	E	P-3-15	M																
M	P-3-4	E	20	A	13	1	0.20	1.20					1	14	20	A	E	P-3-16	M																
M	P-3-5	E	20	A	15	1							1	16	20	A	E	MECHANICAL CONTROLS	MS																
M	P-3-6	E	20	A	17	1							1	18	20	A	E	P-3-17	M																
M	P-3-7	E	20	A	19	1	0.70	0.50					1	20	20	A	E	EXISTING LOAD	MS																
M	P-3-8	E	20	A	21	1							1	22	20	A	E	S1-3-1, S1-3-2	V																
M	P-3-9	E	20	A	23	1							1	24	20	A	E	EXISTING LOAD	MS																
MS	EXISTING LOAD	E	20	A	25	1	0.50	0.50					1	26	20	A	E	EXISTING LOAD	MS																
MS	EXISTING LOAD	E	20	A	27	1							1	28	20	A	E	EXISTING LOAD	MS																
MS	EXISTING LOAD	E	20	A	29	1							1	30	20	A	E	EXISTING LOAD	MS																
MS	EXISTING LOAD	E	20	A	31	1	0.50	1.00					1	32	20	A	E	FIRE ALARM POWER SUPPLY	MS																
MS	EXISTING LOAD	E	20	A	33	1							1	34	15	A	-	P-3-4 (NOTE 8)	M																
MS	EXISTING LOAD	E	100	A	37	3	0.50	0.53					1	38	15	A	-	P-3-11 (NOTE 8)	M																
MS	EXISTING LOAD	E	100	A	39	3							1	40	-	-	-	P-3-18 (NOTE 8)	M																
MS	SPACE ONLY	-	-	-	41	1							1	42	-	-	-	SPACE ONLY																	
<div>LOAD</div> <div>Connected Load</div> <div>Demand Factor</div> <div>Estimated Demand</div> <div>NOTES:</div>																																			
L	LIGHTS	0.00	kVA	0.00%				0.00	kVA					1.	BREAKER FRAME SHALL BE AS REQ'D PER PANEL AIC RATING.																				
LE	LIGHTING - EXTERIOR	0.00	kVA	0.00%				0.00	kVA					2.	SHALL BE FULLY RATED - SERIES RATINGS NOT ALLOWED.																				
H	HEATING	0.00	kVA	0.00%				0.00	kVA					3.	ALL BUSSING, INCL GND AND NEUTRAL, SHALL BE COPPER.																				
C	COOLING	0.00	kVA	0.00%				0.00	kVA					4.	ALL INCOMING PANEL & BRKR LUGS SHALL MATCH FEEDERS.																				
V	VENTILATION	1.00	kVA	100.00%				1.00	kVA					5.	PROVIDE NEW TYPEWRITTEN PANELBOARD SCHEDULE.																				
M	MOTORS	13.99	kVA	100.00%				13.99	kVA																										

FED FROM: SW K1

FED FROM: KP2A

100

12	DINING TVS (NOTE 8)
-	CARVING STATION (NOTE 7)

7	DROP-IN WELL (NOTE 6)
NOTE	

-	SPARE
---	-------



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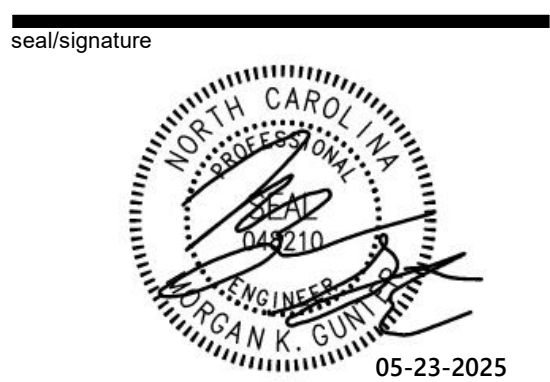
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







PANEL SCHEDULES

sheet number

E7.03

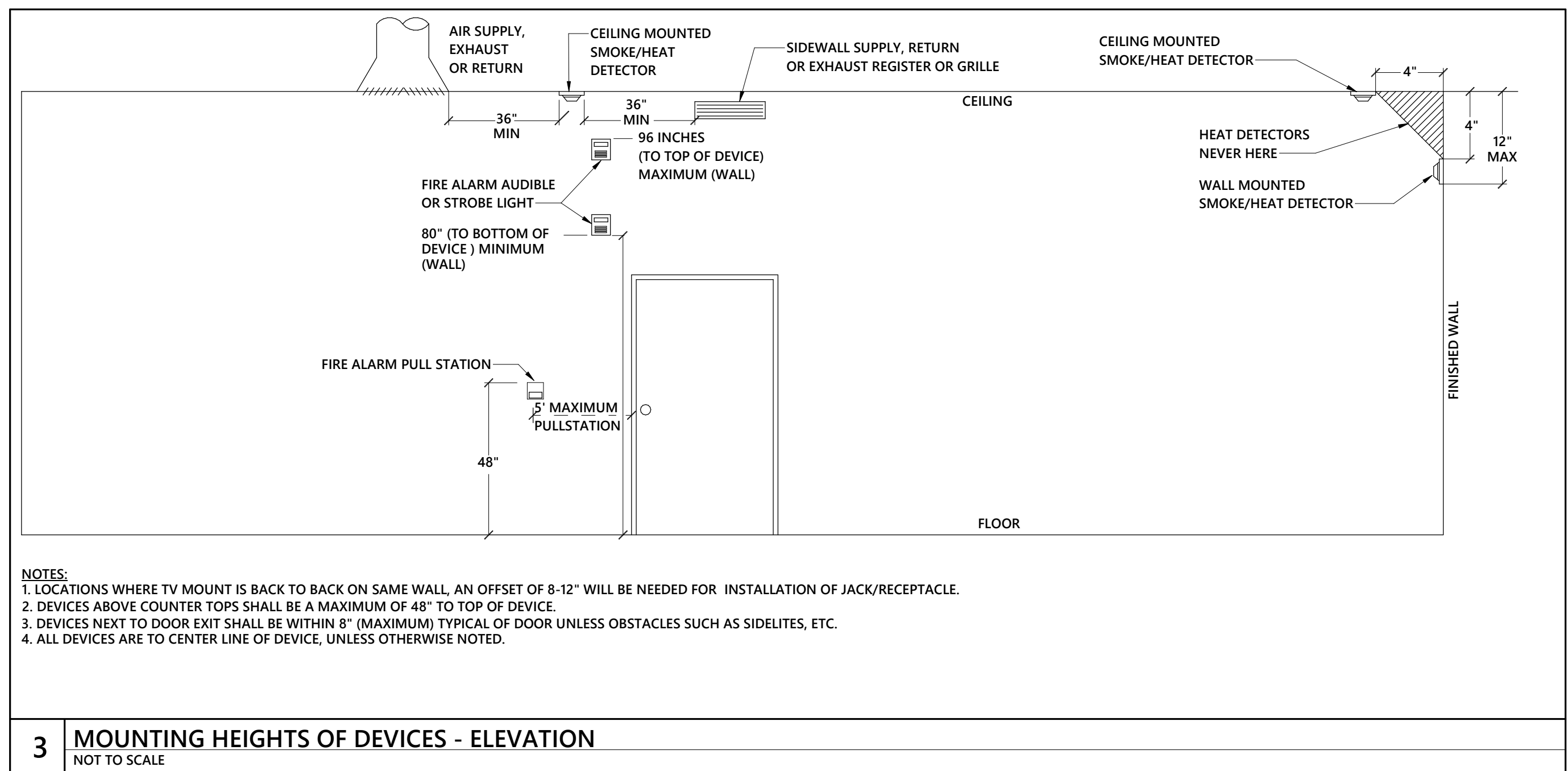
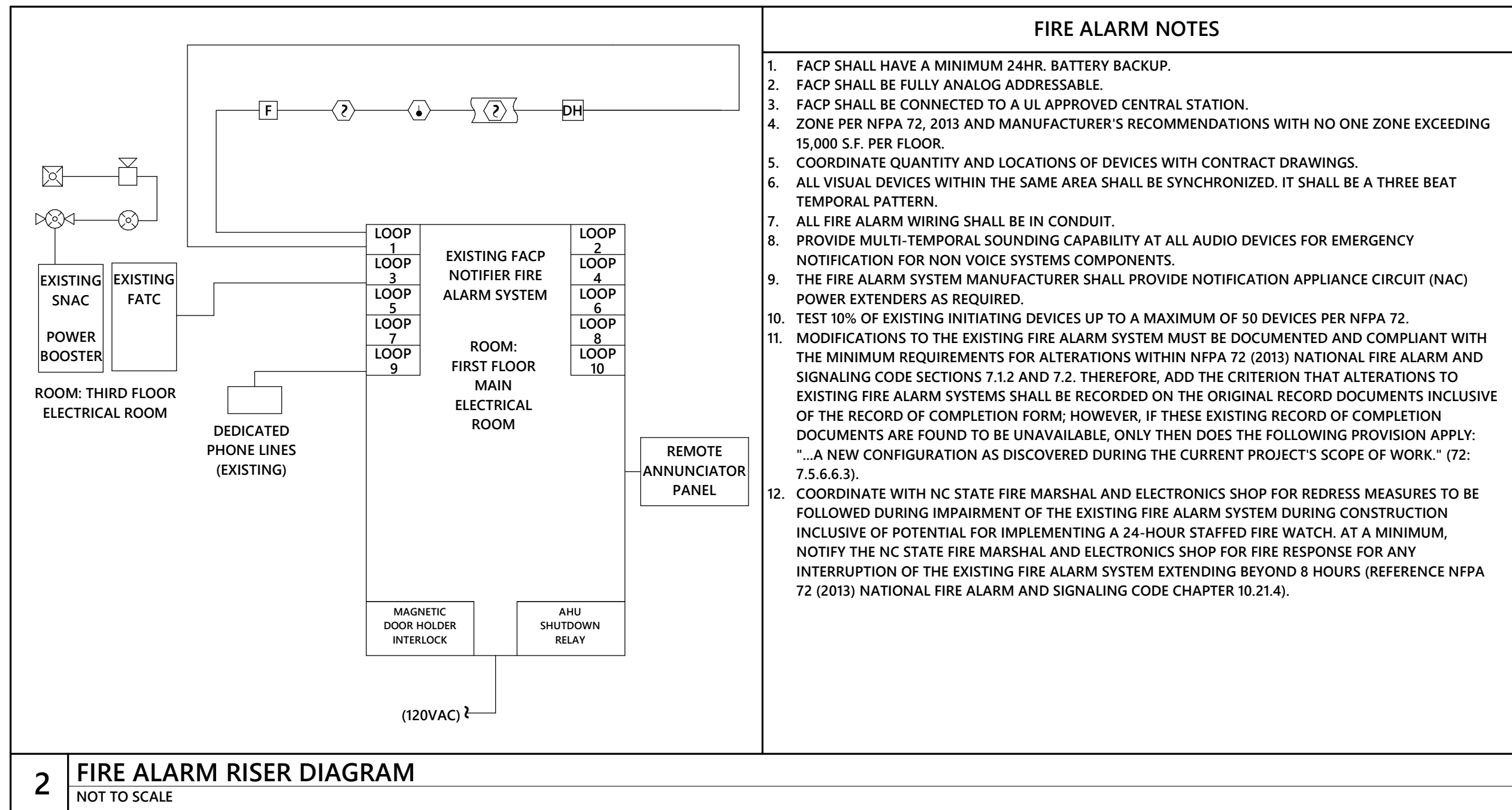
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FIRE ALARM SHEET INDEX	
FA0.01	FIRE ALARM LEGEND AND NOTES
FA1.01	LEVEL 03 - FIRE ALARM PLAN - DEMOLITION
FA1.02	LEVEL 03 - FIRE ALARM PLAN - NEW WORK
FA1.02A	LEVEL 03 - FIRE ALARM PLANS - ALTERNATE #2

NFPA FIRE ALARM LEGEND	
SYMBOL	DESCRIPTION
	FIRE ALARM TERMINAL CABINET
	NOTIFICATION APPLIANCE CIRCUIT POWER EXTENDER
	ADDRESSABLE CONTROL MONITOR
	PULLSTATION/FIRE ALARM
	SMOKE DETECTOR/SENSOR (DEFAULT PHOTOELECTRIC TYPE)
	FIRE ALARM STROBE (CANDELAS), RED FINISH
	ADA COMPLIANT WALL MOUNTED FIRE ALARM SPEAKER WITH STROBE LIGHT, 15CD UNLESS OTHERWISE NOTED. RED FINISH.
	FIRE ALARM STROBE (CANDELAS), WHITE FINISH
	FIRE ALARM HORN W/STROBE (CANDELAS), WHITE FINISH

FIRE ALARM SPECIFICATIONS

- A. SYSTEM SHALL BE A CENTRALIZED, ANALOG, ADDRESSABLE, FULLY ELECTRONICALLY SUPERVISED (INCLUDING AUXILIARY SYSTEMS INTERCONNECT WIRING) SYSTEM LISTED BY UL IN COMPLIANCE WITH ALL APPLICABLE NFPA 72 AND OTHER STANDARDS AS WELL AS THE AMERICAN'S WITH DISABILITIES ACT (ADA). ALL FINAL CONNECTIONS, TESTING AND ADJUSTMENTS SHALL BE PERFORMED BY OR UNDER DIRECT SUPERVISION OF AN AUTHORIZED FACTORY REPRESENTATIVE. SYSTEM SHALL BE SIMPLE, INTERFIER, SIEMENS, OR APPROVED EQUIVA AS ACCEPTED BY THE ENGINEER. SYSTEM SHALL HAVE A 24HR MINIMUM BATTERY BACKUP.
- B. INITIATING DEVICE ACTIVATION SHALL CAUSE OPERATION OF THE PROPER ALARM CIRCUIT IN THE CONTROL PANEL, AND OPERATE ALL AUDIBLE AND VISUAL INDICATING ALARMS. ALL AIR HANDLING UNITS SHALL BE STOPPED UPON ANY ALARM INPUT. EACH AIR HANDLER UNIT SHALL BE PROVIDED WITH A SYSTEM CONTROLLED RELAY TO EFFECT SHUTDOWN. ALL ALARM DEVICES AND LAMPS SHALL CONTINUE TO OPERATE UNTIL THE INITIATING DEVICE IS RESET. SUBSEQUENT ALARMS SHALL NOTIFY THE SYSTEM. ALL AUDIBLE AND VISUAL SIGNAL SHALL INDICATE SYSTEM TROUBLE. THE CONTROL PANEL SHALL PROVIDE FOR ACTIVATING A UL LISTED CENTRAL STATION SIGNAL FOR NOTIFYING THE FIRE DEPARTMENT.
- C. MANUAL STATIONS SHALL BE NON-CODED, WITH DUAL-ACTION PULL AND KEY TYPE RESET, SEMI-RETRACT MOUNTED, CONDUIT LIGHT AND VIBRATION SIGNALS SHALL BE REQUIRED MOUNTED. WIRING SHALL BE IN CONDUIT AS PREVIOUSLY SPECIFIED, #14 AWG MINIMUM, THIN. ALL J-BOXES USED FOR THE FIRE ALARM SYSTEM SHALL BE PAINTED RED.
- D. SPRINKLER SYSTEM TAMPER SWITCHES SHALL BE CONNECTED INTO A COMMON ZONE WHICH SHALL DISTINGUISH BETWEEN A CIRCUIT FAULT AND A CLOSED VALVE. A CLOSED VALVE SHALL BE INDICATED AS AN ALARM CONDITION, BUT WILL NOT ACTIVATE THE AUDIO-VISUAL DEVICES AND SHALL CAUSE A SUPERVISORY SIGNAL TO BE TRANSMITTED TO THE FIRE DEPARTMENT.
- E. CONDUCTORS SHALL BE PLENUM-RATED AND INSTALLED IN CONDUIT AND INSTALLED IN COMPLIANCE WITH NFPA 70, ARTICLE 760. IN ADDITION TO WIRING METHODS 300.4.
- F. ALL FIRE ALARM WIRING SHALL BE CLASS B.
- G. PROVIDE ALL REQUIRED MODULES, POWER EXTENDERS, PROGRAMMING, ETC. FOR A COMPLETE AND OPERATIONAL SYSTEM.
- H. SUBMIT FIRE ALARM SHOP DRAWINGS CONSISTING OF PRODUCT DATA, TO THE ENGINEER AND FOR APPROVAL.
- I. FURNISH NFPA 72 CERTIFICATION REPORT AND SUBMIT TO ENGINEER AND AUTHORITY HAVING JURISDICTION.
- J. WARRANTY - ALL WORK PERFORMED AND ALL MATERIALS AND EQUIPMENT FURNISHED UNDER THIS CONTRACT SHALL BE FREE FROM DEFECTS AND SHALL REMAIN SO FOR A PERIOD OF AT LEAST TWO (2) YEARS FROM THE DATE OF ACCEPTANCE BY THE PROFESSIONAL ENGINEER AND/OR OWNER. THE FULL COST OF MAINTENANCE, REPAIR, AND REPLACEMENT AS REQUIRED FOR DEFECTS OCCURRING DURING THE TWO YEAR PERIOD SHALL BE IMMEDIATELY CORRECTED AT NO ADDITIONAL COST TO THE OWNER. ANY DEFECTS THAT RENDER THE SYSTEM INOPERATIVE SHALL BE REPAIRED WITHIN 24 HOURS OF THE OWNER NOTIFYING THE CONTRACTOR. OTHER DEFECTS SHALL BE REPAIRED WITHIN 48 HOURS OF THE OWNER NOTIFYING THE CONTRACTOR.
- K. AUDIBLE DEVICES WITHIN SLEEPING ROOMS SHALL PROVIDE A SQUARE WAVE 2020HZ TONE COMPATIBLE WITH NFPA 72 4.5.4.3.



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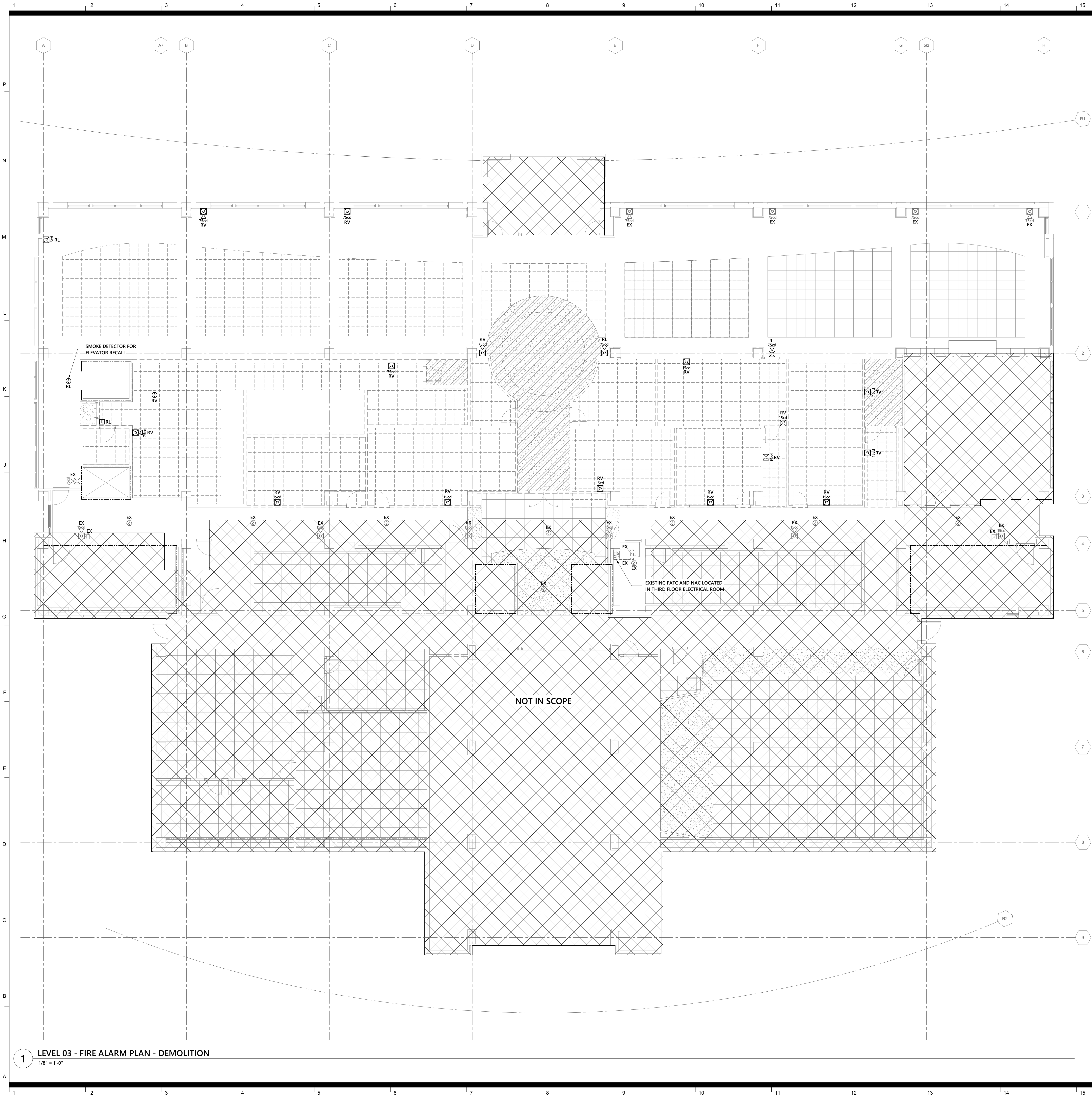
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FIRE ALARM LEGEND AND NOTES

sheet number

FA0.01



GENERAL NOTES - DEMOLITION

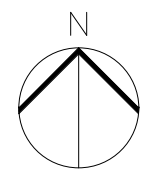
- A. SEE ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR PHASES OF DEMOLITION AND CONSTRUCTION. COORDINATE WITH GENERAL CONSTRUCTION.
- B. DISCONNECT AND REMOVE ALL ELECTRICAL DEVICES AND LIGHTING FIXTURES IN DEMOLITION AREAS UNLESS NOTED OTHERWISE.
- C. DISCONNECT AND REMOVE ALL ELECTRICAL DEVICES IN WALLS TO BE DEMOLISHED. WALLS TO BE DEMOLISHED ARE SHOWN DASHED. DISCONNECT AND REMOVE ASSOCIATED CONDUIT AND WIRE BACK TO LAST REMAINING DEVICE. FURNISH AND INSTALL CONDUIT AND WIRE AS NECESSARY FOR CONTINUITY OF CIRCUITS TO ANY EXISTING DEVICES TO REMAIN. COORDINATE AND VERIFY REQUIREMENTS WITH NEW WORK IN AREA.
- D. FURNISH AND INSTALL CONDUIT AND WIRE AS NECESSARY FOR CONTINUITY OF ANY FEEDERS OR BRANCH CIRCUITS ORIGINATING OUTSIDE THE DEMOLITION AREA THAT SERVES ANY ELECTRICAL EQUIPMENT OR DEVICES TO REMAIN AFTER DEMOLITION. MODIFY OR REPLACE AS REQUIRED.
- E. COORDINATE WITH NCSU COMTECH TO FURNISH AND INSTALL CONDUIT AND/OR COMMUNICATIONS/DATA WIRING AS NECESSARY FOR CONTINUITY OF ANY WIRING ORIGINATING OUTSIDE THE DEMOLITION AREA THAT SERVES ANY COMMUNICATIONS/DATA EQUIPMENT OR DEVICES TO REMAIN AFTER DEMOLITION. MODIFY OR REPLACE AS DIRECTED BY NCSU COMTECH. COORDINATE WITH NCSU COMTECH TO PULL TEMPORARY CABLING AS NEEDED.
- F. DISCONNECT AND REMOVE LIGHT SWITCHES IN DEMOLITION AREAS AS NECESSARY TO ACCOMMODATE NEW DOOR CONFIGURATIONS.
- G. DISCONNECT AND REMOVE ANY EXISTING ELECTRICAL DEVICES AND BACK BOXES AS NECESSARY WHERE NEW WALL CONSTRUCTION WILL INTERSECT AN EXISTING WALL. FURNISH AND INSTALL CONDUIT AND WIRE AS REQUIRED FOR CONTINUITY OF CIRCUITS.
- H. FURNISH AND INSTALL BLANK COVER PLATES OVER ALL EXISTING UNUSED OPENINGS.
- I. COORDINATE THE REMOVAL OF ANY WIRELESS ACCESS POINTS, DATA OUTLETS, AND CABLING WITH NCSU COMTECH PRIOR TO DEMOLITION PHASE.

RENOVATION LEGEND ABBREVIATIONS

ER	EXISTING ITEM RELOCATED TO THIS LOCATION.
RL	EXISTING ITEM TO BE RELOCATED.
EX	EXISTING ITEM TO REMAIN.
RP	EXISTING ITEM TO BE REPLACED.
RV	EXISTING ITEM TO BE REMOVED.
RC	RE-CONNECT

RATED WALL LEGEND

-----	EXISTING 2-HR FIRE BARRIER
----	EXISTING 1-HR FIRE BARRIER



0 8' - 0" 16' - 0"
SCALE 1/8" = 1'-0"



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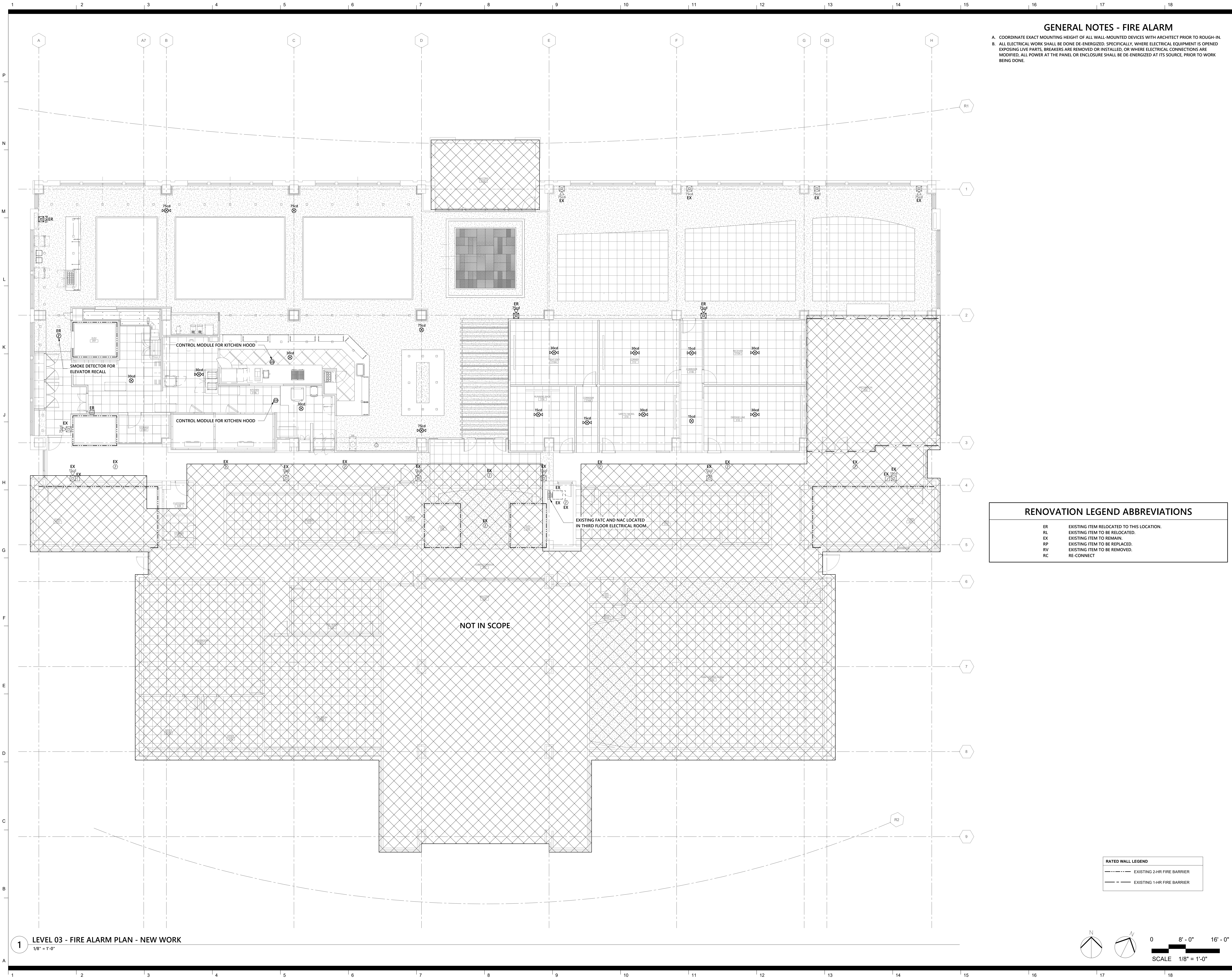
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**LEVEL 03 - FIRE
ALARM PLAN -
DEMOLITION**

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**LEVEL 03 - FIRE
ALARM PLAN - NEW
WORK**

sheet number

FA1.02



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sheet number

OPTIMA# 24-0096R Sheet No. 4 of 4

B. ALL ELECTRICAL WORK SHALL BE DONE DE-ENERGIZED. SPECIFICALLY, WHERE ELECTRICAL EQUIPMENT IS OPENED EXPOSING LIVE PARTS, BREAKERS ARE REMOVED OR INSTALLED, OR WHERE ELECTRICAL CONNECTIONS ARE MODIFIED, ALL POWER AT THE PANEL OR ENCLOSURE SHALL BE DE-ENERGIZED AT ITS SOURCE, PRIOR TO WORK BEING DONE.



ER	EXISTING ITEM RELOCATED TO THIS LOCATION
RL	EXISTING ITEM TO BE RELOCATED.
EX	EXISTING ITEM TO REMAIN.
RP	EXISTING ITEM TO BE REPLACED.
RV	EXISTING ITEM TO BE REMOVED.
RC	RE-CONNECT

RATED WALL LEGEND

---	EXISTING 2-HR FIRE BARRIER
- - -	EXISTING 1-HR FIRE BARRIER

