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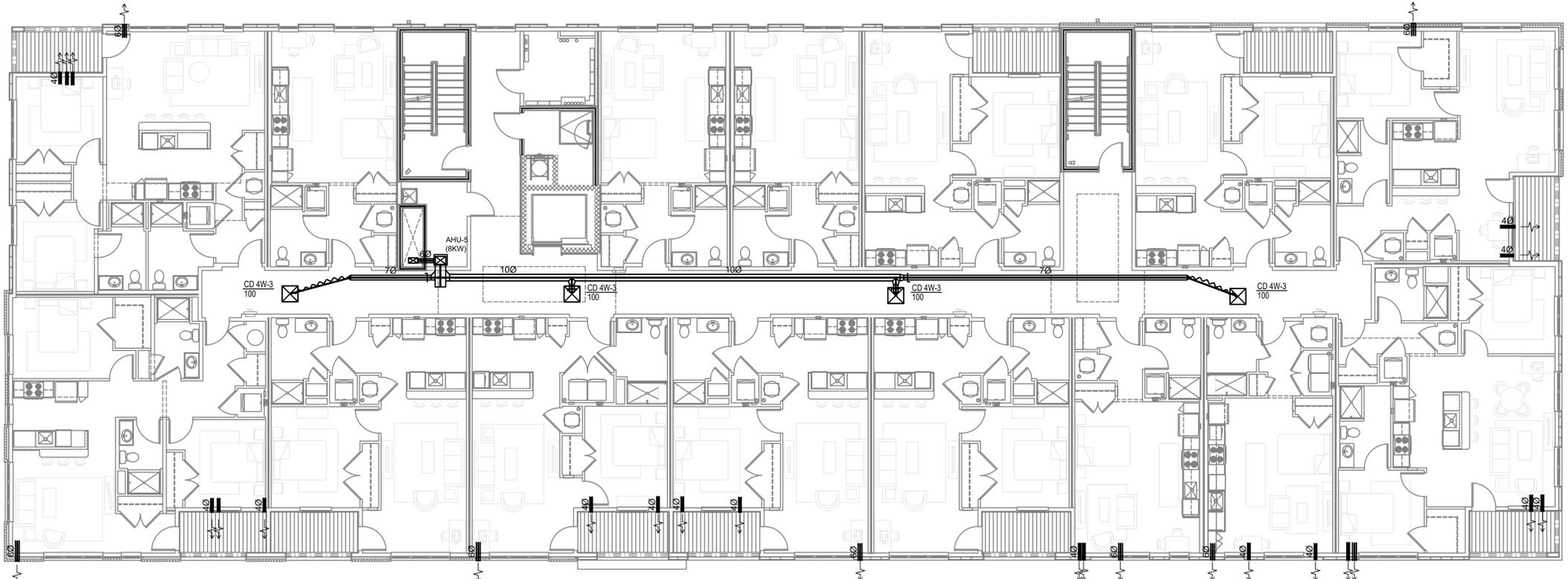
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PR-10535
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Drawing Title
**MECHANICAL FIFTH
FLOOR PLAN**

Document No.
M104

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M104 MECHANICAL FIFTH FLOOR PLAN 

1/8"=1'-0"

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1 2 3 4 5 6 7 8 9 10 11 12

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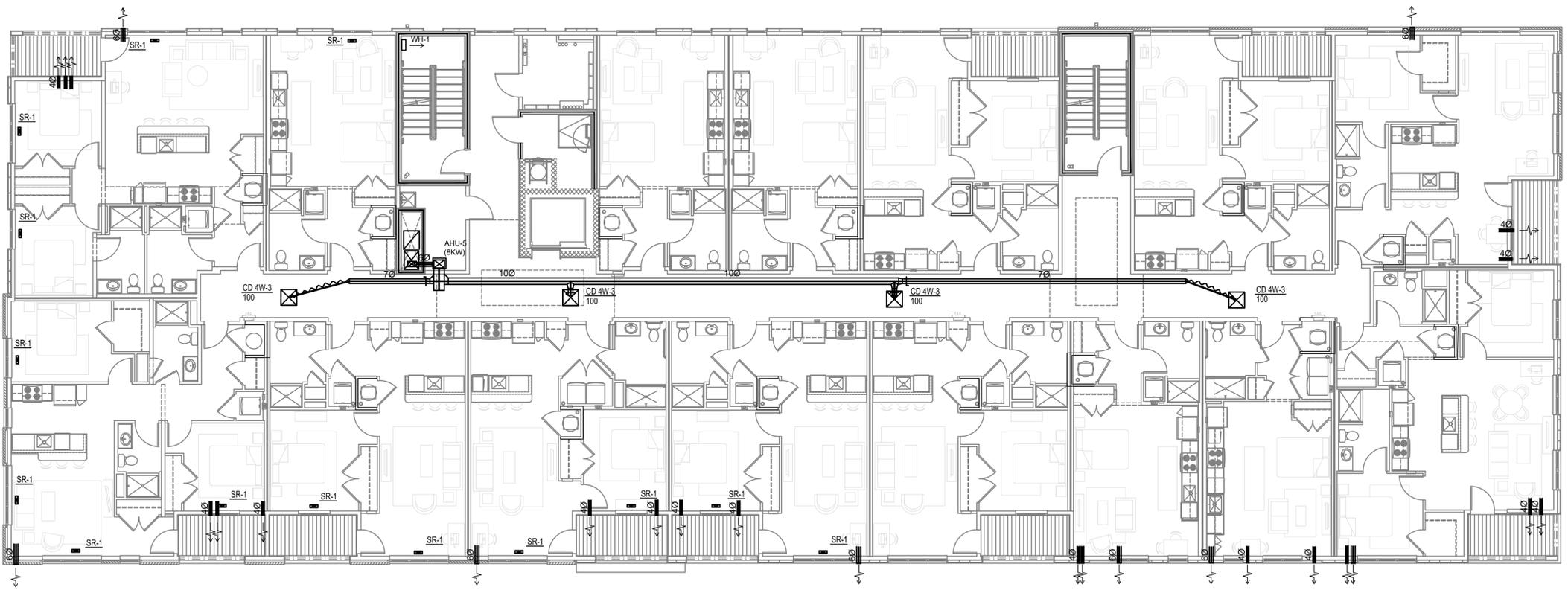
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Drawing Title
**MECHANICAL SIXTH
FLOOR PLAN**

Document No.
M105

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M105 MECHANICAL SIXTH FLOOR PLAN 

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ROOM MOUNTING FLUSH FED FROM SDB			VOLTS 208Y/120V 3P 4W BUS AMPS 1200 NEUTRAL 100%			AIC T.B.D. MAIN BKR MLO LUGS STANDARD			
CTK #	CTK BKR	LOAD KVA	CIRCUIT DESCRIPTION	CTK #	CTK BKR	LOAD KVA	CIRCUIT DESCRIPTION		
1	200/3	0	PANEL B-1	a 2	20/1	0	SPACE		
3				b 4	20/1	0	SPACE		
5				c 6	20/1	0	SPACE		
7	200/3	0	PANEL B-2	d 8	20/1	0	SPACE		
9				b 10	20/1	0	SPACE		
11				c 12	20/1	0	SPACE		
13	200/3	0	PANEL B-3	d 14	20/1	0	SPACE		
15				b 16	20/1	0	SPACE		
17				c 18	20/1	0	SPACE		
19	20/1	0	SPACE	d 20	20/1	0	SPACE		
21	20/1	0	SPACE	b 22	20/1	0	SPACE		
23	20/1	0	SPACE	c 24	20/1	0	SPACE		
25	20/1	0	SPACE	d 26	20/1	0	SPACE		
27	20/1	0	SPACE	b 28	20/1	0	SPACE		
29	20/1	0	SPACE	c 30	20/1	0	SPACE		
31	20/1	0	SPACE	d 32	20/1	0	SPACE		
33	20/1	0	SPACE	b 34	20/1	0	SPACE		
35	20/1	0	SPACE	c 36	20/1	0	SPACE		
37	20/1	0	SPACE	d 38	20/1	0	SPACE		
39	20/1	0	SPACE	b 40	20/1	0	SPACE		
41	20/1	0	SPACE	c 42	20/1	0	SPACE		
CONN KVA			0	CALC KVA			0		
TOTAL LOAD			0	BALANCED 3-PHASE LOAD			0 A		
PHASE A			0.00%	PHASE B			0.00%	PHASE C 0.00%	

ROOM MOUNTING FLUSH FED FROM MDP-B			VOLTS 208Y/120V 3P 4W BUS AMPS 200 NEUTRAL 100%			AIC T.B.D. MAIN BKR MLO LUGS STANDARD			
CTK #	CTK BKR	LOAD KVA	CIRCUIT DESCRIPTION	CTK #	CTK BKR	LOAD KVA	CIRCUIT DESCRIPTION		
1	20/1	0	SPACE	a 2	20/1	0	SPACE		
3	20/1	0	SPACE	b 4	20/1	0	SPACE		
5	20/1	0	SPACE	c 6	20/1	0	SPACE		
7	20/1	0	SPACE	d 8	20/1	0	SPACE		
9	20/1	0	SPACE	b 10	20/1	0	SPACE		
11	20/1	0	SPACE	c 12	20/1	0	SPACE		
13	20/1	0	SPACE	d 14	20/1	0	SPACE		
15	20/1	0	SPACE	b 16	20/1	0	SPACE		
17	20/1	0	SPACE	c 18	20/1	0	SPACE		
19	20/1	0	SPACE	d 20	20/1	0	SPACE		
21	20/1	0	SPACE	b 22	20/1	0	SPACE		
23	20/1	0	SPACE	c 24	20/1	0	SPACE		
25	20/1	0	SPACE	d 26	20/1	0	SPACE		
27	20/1	0	SPACE	b 28	20/1	0	SPACE		
29	20/1	0	SPACE	c 30	20/1	0	SPACE		
31	20/1	0	SPACE	d 32	20/1	0	SPACE		
33	20/1	0	SPACE	b 34	20/1	0	SPACE		
35	20/1	0	SPACE	c 36	20/1	0	SPACE		
37	20/1	0	SPACE	d 38	20/1	0	SPACE		
39	20/1	0	SPACE	b 40	20/1	0	SPACE		
41	20/1	0	SPACE	c 42	20/1	0	SPACE		
CONN KVA			0	CALC KVA			0		
TOTAL LOAD			0	BALANCED 3-PHASE LOAD			0 A		
PHASE A			0.00%	PHASE B			0.00%	PHASE C 0.00%	

ROOM MOUNTING FLUSH FED FROM MDP-B			VOLTS 208Y/120V 3P 4W BUS AMPS 200 NEUTRAL 100%			AIC T.B.D. MAIN BKR MLO LUGS STANDARD			
CTK #	CTK BKR	LOAD KVA	CIRCUIT DESCRIPTION	CTK #	CTK BKR	LOAD KVA	CIRCUIT DESCRIPTION		
1	20/1	0	SPACE	a 2	20/1	0	SPACE		
3	20/1	0	SPACE	b 4	20/1	0	SPACE		
5	20/1	0	SPACE	c 6	20/1	0	SPACE		
7	20/1	0	SPACE	d 8	20/1	0	SPACE		
9	20/1	0	SPACE	b 10	20/1	0	SPACE		
11	20/1	0	SPACE	c 12	20/1	0	SPACE		
13	20/1	0	SPACE	d 14	20/1	0	SPACE		
15	20/1	0	SPACE	b 16	20/1	0	SPACE		
17	20/1	0	SPACE	c 18	20/1	0	SPACE		
19	20/1	0	SPACE	d 20	20/1	0	SPACE		
21	20/1	0	SPACE	b 22	20/1	0	SPACE		
23	20/1	0	SPACE	c 24	20/1	0	SPACE		
25	20/1	0	SPACE	d 26	20/1	0	SPACE		
27	20/1	0	SPACE	b 28	20/1	0	SPACE		
29	20/1	0	SPACE	c 30	20/1	0	SPACE		
31	20/1	0	SPACE	d 32	20/1	0	SPACE		
33	20/1	0	SPACE	b 34	20/1	0	SPACE		
35	20/1	0	SPACE	c 36	20/1	0	SPACE		
37	20/1	0	SPACE	d 38	20/1	0	SPACE		
39	20/1	0	SPACE	b 40	20/1	0	SPACE		
41	20/1	0	SPACE	c 42	20/1	0	SPACE		
CONN KVA			0	CALC KVA			0		
TOTAL LOAD			0	BALANCED 3-PHASE LOAD			0 A		
PHASE A			0.00%	PHASE B			0.00%	PHASE C 0.00%	

ROOM MOUNTING FLUSH FED FROM SDA			VOLTS 208Y/120V 3P 4W BUS AMPS 600 NEUTRAL 100%			AIC T.B.D. MAIN BKR MLO LUGS STANDARD			
CTK #	CTK BKR	LOAD KVA	CIRCUIT DESCRIPTION	CTK #	CTK BKR	LOAD KVA	CIRCUIT DESCRIPTION		
1	20/1	0	SPACE	a 2	20/1	0	SPACE		
3	20/1	0	SPACE	b 4	20/1	0	SPACE		
5	20/1	0	SPACE	c 6	20/1	0	SPACE		
7	20/1	0	SPACE	d 8	20/1	0	SPACE		
9	20/1	0	SPACE	b 10	20/1	0	SPACE		
11	20/1	0	SPACE	c 12	20/1	0	SPACE		
13	20/1	0	SPACE	d 14	20/1	0	SPACE		
15	20/1	0	SPACE	b 16	20/1	0	SPACE		
17	20/1	0	SPACE	c 18	20/1	0	SPACE		
19	20/1	0	SPACE	d 20	20/1	0	SPACE		
21	20/1	0	SPACE	b 22	20/1	0	SPACE		
23	20/1	0	SPACE	c 24	20/1	0	SPACE		
25	20/1	0	SPACE	d 26	20/1	0	SPACE		
27	20/1	0	SPACE	b 28	20/1	0	SPACE		
29	20/1	0	SPACE	c 30	20/1	0	SPACE		
31	20/1	0	SPACE	d 32	20/1	0	SPACE		
33	20/1	0	SPACE	b 34	20/1	0	SPACE		
35	20/1	0	SPACE	c 36	20/1	0	SPACE		
37	20/1	0	SPACE	d 38	20/1	0	SPACE		
39	20/1	0	SPACE	b 40	20/1	0	SPACE		
41	20/1	0	SPACE	c 42	20/1	0	SPACE		
CONN KVA			0	CALC KVA			0		
TOTAL LOAD			0	BALANCED 3-PHASE LOAD			0 A		
PHASE A			0.00%	PHASE B			0.00%	PHASE C 0.00%	

ROOM MOUNTING FLUSH FED FROM MDP-B			VOLTS 208Y/120V 3P 4W BUS AMPS 200 NEUTRAL 100%			AIC T.B.D. MAIN BKR MLO LUGS STANDARD			
CTK #	CTK BKR	LOAD KVA	CIRCUIT DESCRIPTION	CTK #	CTK BKR	LOAD KVA	CIRCUIT DESCRIPTION		
1	20/1	0	SPACE	a 2	20/1	0	SPACE		
3	20/1	0	SPACE	b 4	20/1	0	SPACE		
5	20/1	0	SPACE	c 6	20/1	0	SPACE		
7	20/1	0	SPACE	d 8	20/1	0	SPACE		
9	20/1	0	SPACE	b 10	20/1	0	SPACE		
11	20/1	0	SPACE	c 12	20/1	0	SPACE		
13	20/1	0	SPACE	d 14	20/1	0	SPACE		
15	20/1	0	SPACE	b 16	20/1	0	SPACE		
17	20/1	0	SPACE	c 18	20/1	0	SPACE		
19	20/1	0	SPACE	d 20	20/1	0	SPACE		
21	20/1	0	SPACE	b 22	20/1	0	SPACE		
23	20/1	0	SPACE	c 24	20/1	0	SPACE		
25	20/1	0	SPACE	d 26	20/1	0	SPACE		
27	20/1	0	SPACE	b 28	20/1	0	SPACE		
29	20/1	0	SPACE	c 30	20/1	0	SPACE		
31	20/1	0	SPACE	d 32	20/1	0	SPACE		
33	20/1	0	SPACE	b 34	20/1	0	SPACE		
35	20/1	0	SPACE	c 36	20/1	0	SPACE		
37	20/1	0	SPACE	d 38	20/1	0	SPACE		
39	20/1	0	SPACE	b 40	20/1	0	SPACE		
41	20/1	0	SPACE	c 42	20/1	0	SPACE		
CONN KVA			0	CALC KVA			0		
TOTAL LOAD			0	BALANCED 3-PHASE LOAD			0 A		
PHASE A			0.00%	PHASE B			0.00%	PHASE C 0.00%	

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Document No.

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TYPE 1B							
ROOM MOUNTING FLUSH		VOLTS 208/120V 2P 3W		AIC T.B.D.			
FED FROM		BUS AMPS 150		MAIN BKR MLO			
NOTE		NEUTRAL 100%		LUGS STANDARD			
CKT #	CKT BKR	LOAD KVA	CIRCUIT DESCRIPTION	CKT #	CKT BKR	LOAD KVA	CIRCUIT DESCRIPTION
1	15/1	1.26	EF1, LIGHTING, RECEPTACLE	a 2	20/1	1.5	SMALL APPLIANCE
3	15/1	1.46	LIGHTING, RECEPTACLE	b 4	20/1	1.5	SMALL APPLIANCE
5	15/1	0.063	LIGHTING	a 6	20/1	0.5	FRIG.
7	20/1	0.18	BATH	b 8	20/1	1.2	DISHWASHER
9	20/1	1.5	LAUNDRY	a 10	20/1	1.8	MICROWAVE
11	30/2	5	DRYER	b 12	20/1	0.1	HOOD
13				a 14	50/2	10.2	RANGE
15	50/2	7.55	AHU-A-1.5	b 16			
17				a 18	30/2	4.5	EDWH
19	20/2	2.45	HP-A-1.5	b 20			
21				a 22	20/1	0	SPACE
23	20/1	0	SPACE	b 24	20/1	0	SPACE

OPTIONAL DWELLING UNIT CALCULATION (NEC 220.82)					
	CONN KVA		CONN KVA	CALC KVA	
LIGHTING AND RECEPTACLES	2.48	825 SF (3 VA/SF)	GENERAL LOAD UP TO 10 KVA	10	10 (100%)
SMALL-APPLIANCE	3		OVER 10 KVA	20.3	8.11 (40%)
LAUNDRY APPLIANCES	1.5		MAX HEATING OR COOLING	10	(220.82(C)(1))
ELECTRIC COOKING	10.2		TOTAL LOAD	28.1	
TOTAL GENERAL LOAD	30.3		BALANCED LOAD	135 A	
			PHASE A	105%	
			PHASE B	95.4%	

TYPE 2B							
ROOM MOUNTING FLUSH		VOLTS 208/120V 2P 3W		AIC T.B.D.			
FED FROM		BUS AMPS 150		MAIN BKR MLO			
NOTE		NEUTRAL 100%		LUGS STANDARD			
CKT #	CKT BKR	LOAD KVA	CIRCUIT DESCRIPTION	CKT #	CKT BKR	LOAD KVA	CIRCUIT DESCRIPTION
1	15/1	0.918	LIGHTING, RECEPTACLE	a 2	20/1	1.5	SMALL APPLIANCE
3	15/1	1.06	EF1, LIGHTING, RECEPTACLE	b 4	20/1	1.5	SMALL APPLIANCE
5	15/1	1.68	EF1, LIGHTING, RECEPTACLE	a 6	20/1	0.5	FRIG.
7	20/1	0.36	BATH	b 8	20/1	1.2	DISHWASHER
9	20/1	1.5	LAUNDRY	a 10	20/1	1.8	MICROWAVE
11	30/2	5	DRYER	b 12	50/2	10.2	RANGE
13				a 14			
15	50/2	7.55	AHU-A-1.5	b 16	30/2	4.5	EDWH
17				a 18			
19	20/2	2.45	HP-A-1.5	b 20	20/1	0	SPACE
21				a 22	20/1	0	SPACE
23	20/1	0	SPACE	b 24	20/1	0	SPACE

OPTIONAL DWELLING UNIT CALCULATION (NEC 220.82)					
	CONN KVA		CONN KVA	CALC KVA	
LIGHTING AND RECEPTACLES	3.08	1,025 SF (3 VA/SF)	GENERAL LOAD UP TO 10 KVA	10	10 (100%)
SMALL-APPLIANCE	3		OVER 10 KVA	20.8	8.31 (40%)
LAUNDRY APPLIANCES	1.5		MAX HEATING OR COOLING	10	(220.82(C)(1))
ELECTRIC COOKING	10.2		TOTAL LOAD	28.3	
TOTAL GENERAL LOAD	30.8		BALANCED LOAD	136 A	
			PHASE A	108%	
			PHASE B	92.3%	

TYPE S							
ROOM MOUNTING FLUSH		VOLTS 208/120V 2P 3W		AIC T.B.D.			
FED FROM		BUS AMPS 150		MAIN BKR MLO			
NOTE		NEUTRAL 100%		LUGS STANDARD			
CKT #	CKT BKR	LOAD KVA	CIRCUIT DESCRIPTION	CKT #	CKT BKR	LOAD KVA	CIRCUIT DESCRIPTION
1	15/1	0.244	LIGHTING, RECEPTACLE	a 2	20/1	1.5	SMALL APPLIANCE
3	15/1	1.26	EF1, LIGHTING, RECEPTACLE	b 4	20/1	1.5	SMALL APPLIANCE
5	20/1	0.18	BATH	a 6	20/1	0.5	FRIG.
7	20/1	1.5	LAUNDRY	b 8	20/1	1.2	DISHWASHER
9	30/2	5	DRYER	a 10	20/1	1.8	MICROWAVE
11				b 12	20/1	0.1	HOOD
13	50/2	7.55	AHU-A-1.5	a 14	50/2	10.2	RANGE
15				b 16			
17	20/2	2.45	HP-A-1.5	a 18	30/2	4.5	EDWH
19				b 20			
21	20/1	0	SPACE	a 22	20/1	0	SPACE
23	20/1	0	SPACE	b 24	20/1	0	SPACE

OPTIONAL DWELLING UNIT CALCULATION (NEC 220.82)					
	CONN KVA		CONN KVA	CALC KVA	
LIGHTING AND RECEPTACLES	1.58	525 SF (3 VA/SF)	GENERAL LOAD UP TO 10 KVA	10	10 (100%)
SMALL-APPLIANCE	3		OVER 10 KVA	19.4	7.75 (40%)
LAUNDRY APPLIANCES	1.5		MAX HEATING OR COOLING	10	(220.82(C)(1))
ELECTRIC COOKING	10.2		TOTAL LOAD	27.8	
TOTAL GENERAL LOAD	29.4		BALANCED LOAD	133 A	
			PHASE A	97.1%	
			PHASE B	103%	

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E405

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THESE DRAWINGS AND SPECIFICATIONS ARE NOT AUTHORIZED TO BE USED AS CONTRACT DOCUMENTS. THESE DRAWINGS HAVE BEEN PREPARED TO DEMONSTRATE COMPLIANCE WITH APPLICABLE CODES, AND ARE INTENDED TO PROVIDE THE AUTHORITIES HAVING JURISDICTION WITH INFORMATION TO DETERMINE CODE COMPLIANCE. THE INSTALLING CONTRACTOR IS RESPONSIBLE TO ENSURE THAT MEANS, METHODS, AND MATERIALS USED IN CONSTRUCTION ARE INSTALLED IN ACCORDANCE WITH ANY CONTRACTUAL AGREEMENT THAT MAY EXIST WITH AN OWNER, CONSTRUCTION MANAGER, GENERAL CONTRACTOR, ETC.

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ELECTRICAL SPECIFICATIONS											
1. GENERAL DEMOLITION											
a. REFER TO ARCHITECTURAL DRAWINGS, GENERAL NOTES, INSTRUCTIONS TO BIDDERS, GENERAL CONDITIONS, SUPPLEMENTARY GENERAL CONDITIONS, BASE BUILDING SPECIFICATIONS AND DRAWINGS, SHOP DRAWING MANUALS AND AS-BUILT PLANS, EXCEPT AS NOTED HEREIN, WHICH APPLY IN ALL RESPECTS TO THIS SECTION. THE CONTRACTOR SHALL VISIT THE SITE AND FAMILIARIZE HIMSELF WITH ALL EXISTING CONDITIONS PRIOR TO BIDDING THE WORK											
2. USE OF DRAWINGS AND SPECIFICATIONS											
a. EBS DRAWINGS AND SPECIFICATIONS ARE INTENDED TO CONVEY DESIGN INTENT ONLY. ALL MEANS AND METHODS SEQUENCES, TECHNIQUES, AND PROCEDURES OF CONSTRUCTION AS WELL AS ANY ASSOCIATED SAFETY PRECAUTIONS AND PROGRAMS, AND ALL INCIDENTAL AND TEMPORARY DEVICES REQUIRED TO CONSTRUCT THE PROJECT, AND TO PROVIDE A COMPLETE AND FULLY OPERATIONAL ELECTRICAL SYSTEM ARE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR.											
3. STANDARDS											
a. MATERIALS EQUIPMENT AND MATERIALS SHALL CONFORM WITH APPROPRIATE PROVISIONS OF NEC, ASTM, UL, ETL, NEMA, ANSI, AS APPLICABLE TO EACH INDIVIDUAL UNIT OR ASSEMBLY.											
4. CODES											
a. ALL WORK SHALL BE PERFORMED IN STRICT ACCORDANCE WITH ALL APPLICABLE STATE AND LOCAL CODES AND ORDINANCES. IN CASE OF CONFLICT BETWEEN THE DRAWINGS/SPECIFICATIONS AND THE CODES AND ORDINANCES, THE HIGHEST STANDARD SHALL APPLY. THE ELECTRICAL CONTRACTOR SHALL SATISFY CODE REQUIREMENTS AS A MINIMUM STANDARD WITHOUT ANY EXTRA COST TO OWNER.											
5. PERMITS AND FEES											
a. THE ELECTRICAL CONTRACTOR SHALL PROCURE AND PAY FOR ALL PERMITS, FEES AND INSPECTIONS NECESSARY TO COMPLETE THE ELECTRICAL WORK.											
6. WARRANTY											
a. THE ELECTRICAL CONTRACTOR SHALL UNCONDITIONALLY WARRANT ALL WORK TO BE FREE OF DEFECTS IN MATERIAL AND WORKMANSHIP FOR A PERIOD OF ONE (1) YEAR FROM THE DATE OF FINAL ACCEPTANCE, AND WILL REPAIR OR REPLACE ANY DEFECTIVE WORK PROMPTLY AND WITHOUT CHARGE AND RESTORE ANY OTHER EXISTING WORK DAMAGED IN THE COURSE OF REPAIRING DEFECTIVE MATERIALS AND WORKMANSHIP.											
7. SITE EXAMINATION											
a. THE ELECTRICAL CONTRACTOR SHALL THOROUGHLY EXAMINE ALL AREAS OF WORK WHERE EQUIPMENT WILL BE INSTALLED AND SHALL REPORT ANY CONDITION THAT, IN HIS OPINION, PREVENTS THE PROPER INSTALLATION OF THE ELECTRICAL WORK PRIOR TO BID. HE SHALL ALSO EXAMINE THE DRAWINGS AND SPECIFICATIONS OF OTHER BRANCHES OF WORK MAKING REFERENCE TO THEM FOR DETAILS OF NEW OR EXISTING BUILDING CONDITIONS.											
b. ALL WORK SHALL BE DONE AT TIMES CONVENIENT TO THE OWNER AND ONLY DURING NORMAL WORKING HOURS, UNLESS SPECIFIED OTHERWISE.											
c. ELECTRICAL CONTRACTOR SHALL TAKE HIS OWN MEASUREMENTS AND BE RESPONSIBLE FOR THEM.											
d. ACCESS PANELS ARE NOT SHOWN ON DRAWINGS. DURING SITE EXAMINATION, CONTRACTOR SHALL IDENTIFY ALL AREAS WHERE ACCESS PANELS ARE REQUIRED, AND REPORT TO GENERAL CONTRACTOR. DESIGNATION OF WHO FURNISHES AND WHO INSTALLS ACCESS PANELS MUST BE COORDINATED WITH GENERAL CONTRACTOR PRIOR TO STARTING WORK.											
8. CONTRACTOR COORDINATION											
a. COORDINATION DRAWINGS SHOWING SYSTEM AND COMPONENT INSTALLATION LAYOUT, ROUTING DETAILS, ETC. SHALL BE PRODUCED BY THE ELECTRICAL CONTRACTOR AND UNDER THE SUPERVISION OF THE GENERAL CONTRACTOR/CONSTRUCTION MANAGER, OR APPROPRIATE PARTY AS APPLICABLE.											
b. ALL SYSTEMS INSTALLED BY EACH SUB-CONTRACTOR SHALL BE COORDINATED WITH ONE ANOTHER AND APPROVED BY GENERAL CONTRACTOR/CONSTRUCTION MANAGER, ETC. PRIOR TO INSTALLATION AND/OR FABRICATION. WHERE THE ELECTRICAL CONTRACTOR IS MAKING A CONNECTION TO EQUIPMENT/COMPONENTS THAT ARE FURNISHED BY OTHERS, ELECTRICAL CONTRACTOR TO VERIFY ALL CONNECTION REQUIREMENTS WITH ACTUAL EQUIPMENT BEING CONNECTED, INCLUDING BUT NOT LIMITED TO OCP SIZE, MEANS OF DISCONNECT, SPECIAL CONNECTION REQUIREMENTS, OR OTHER ITEMS INDICATED ON SHOP DRAWINGS, OR MANUFACTURER'S INSTALLATION INSTRUCTIONS AND/OR INSTALLATION DIAGRAMS, AND FURNISH ALL LABOR AND MATERIALS REQUIRED FOR THE INSTALLATION AND OPERATION OF THE EQUIPMENT. NO ALLOWANCES WILL BE MADE FOR FAILURE TO COORDINATE, AFTER ELECTRICAL CONNECTIONS HAVE BEEN INSTALLED.											
c. IF QUESTIONS CONCERNING DESIGN INTENT ARISE DURING COORDINATION, EBS CAN ASSIST WHERE APPROPRIATE.											
d. THE ARCHITECTURAL DRAWINGS SHALL TAKE PRECEDENCE OVER ALL OTHER DRAWINGS. DO NOT SCALE DISTANCES OFF THE ELECTRICAL DRAWINGS; USE ACTUAL BUILDING DIMENSIONS.											
e. COORDINATION DRAWINGS SHOWING SYSTEM AND COMPONENT INSTALLATION LAYOUT, ROUTING, DETAILS, ETC. SHALL BE PRODUCED BY THE ELECTRICAL CONTRACTOR AND UNDER THE SUPERVISION OF THE GENERAL CONTRACTOR/CONSTRUCTION MANAGER, OR APPROPRIATE PARTY AS APPLICABLE. ALL SYSTEMS INSTALLED BY EACH SUB-CONTRACTOR SHALL BE COORDINATED WITH ONE ANOTHER AND APPROVED BY GENERAL CONTRACTOR/CONSTRUCTION MANAGER, ETC. PRIOR TO INSTALLATION AND/OR FABRICATION. IF QUESTIONS CONCERNING DESIGN INTENT ARISE DURING COORDINATION, EBS CAN ASSIST WHERE APPROPRIATE.											
9. UTILITY COORDINATION											
a. ELECTRICAL CONTRACTOR TO VERIFY INSTALLATION OF METERING AND UTILITY DEMARCATION EQUIPMENT WITH UTILITY PROVIDER PRIOR TO START OF WORK AND FURNISH AND INSTALL REQUIRED ITEMS PER UTILITY COMPANY'S INSTALLATION REQUIREMENTS AND/OR MANUALS.											
10. SUBMITTALS											
a. PRODUCTS INSTALLED BY THE ELECTRICAL CONTRACTOR AND PROVIDED BY OTHERS MUST BE SUBMITTED FOR REVIEW PRIOR TO PURCHASING. PRODUCTS SHALL NOT BE SELECTED BASED ON PERMIT DRAWINGS WITHOUT EXPRESS PERMISSION. PRODUCTS SHALL BE SELECTED BASED ON CONSTRUCTION DRAWINGS.											
11. RECORD DRAWING											
a. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR CREATING RECORD DRAWINGS WHERE REQUIRED. DRAWINGS SHALL BE PRODUCED IN AUTOCAD 2004 FORMAT OR LATER.											
12. SHOP DRAWINGS											
a. SUBMIT TO THE ARCHITECT PDF FILE COPIES OF COMPLETE & CERTIFIED SHOP DRAWINGS, DESCRIPTIVE DATA, PERFORMANCE DATA & RATINGS, DIAGRAMS AND SPECIFICATIONS ON ALL SPECIFIED EQUIPMENT, INCLUDING ACCESSORIES, AND MATERIALS FOR REVIEW.											
b. THE MAKE, MODEL NUMBER, TYPE, FINISH & ACCESSORIES OF ALL EQUIPMENT AND MATERIALS SHALL BE REVIEWED & APPROVED BY THE ELECTRICAL CONTRACTOR & GENERAL CONTRACTOR PRIOR TO SUBMITTING TO THE ARCHITECT FOR THEIR REVIEW & APPROVAL.											
c. REVIEW OF SHOP DRAWINGS DOES NOT RELIEVE THE ELECTRICAL CONTRACTOR/VENDOR FROM COMPLIANCE WITH THE REQUIREMENTS OF THE CONTRACT DRAWINGS, SPECIFICATIONS & APPLICABLE CODES.											
13. TESTING											
a. ALL ELECTRICAL SYSTEMS SHALL BE TESTED FOR PROPER OPERATION, BALANCE ALL BRANCH CIRCUIT LOADS BETWEEN THE PHASES OF THE SYSTEM TO WITHIN 10% OF THE HIGHEST PHASE LOAD IN EACH PANELBOARD.											
14. TEMPORARY POWER											
a. THE ELECTRICAL CONTRACTOR SHALL PROVIDE TEMPORARY ELECTRICAL WIRING FOR CONSTRUCTION. THE TEMPORARY SERVICE SHALL BE A MINIMUM OF 60 AMPS, SINGLE PHASE, THREE WIRE, 120/208 VOLTS FUSED AT MAIN DISCONNECT. ALL RECEPTACLES ON THIS TEMPORARY SERVICE SHALL BE PROTECTED BY A GFI BREAKER.											
15. MECHANICAL EQUIPMENT											
a. ALL FINAL CONNECTIONS TO MECHANICAL EQUIPMENT SHALL BE DONE BY THE ELECTRICAL CONTRACTOR.											
16. DEMOLITION											
a. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR DEENERGIZING CIRCUITS IN DEMOLITION AREA TO INSURE A SAFE CONDITION. ELECTRICAL DEVICES AND ASSOCIATED WIRING LOCATED WITHIN THE DEMOLITION AREA THAT WILL NO LONGER BE USED SHALL BE REMOVED AND PROPERLY DISPOSED OF AT CONTRACTOR'S EXPENSE UNLESS OTHERWISE NOTED.											
17. POWER OUTAGES											
a. THE ELECTRICAL CONTRACTOR SHALL SCHEDULE ALL ELECTRICAL SYSTEMS' OUTAGES WITH THE GENERAL CONTRACTOR AND OWNER AT LEAST 24 HOURS IN ADVANCE. UNLESS APPROVED OTHERWISE ALL OUTAGES SHALL OCCUR BETWEEN 11:00PM AND 5:00AM.											
18. GROUNDING AND BONDING											
a. CONTRACTOR TO PROVIDE GROUNDING AND BONDING AS REQUIRED FOR ELECTRICAL SYSTEMS. GROUNDING AND BONDING IS CONSIDERED MEANS AND METHODS OF CONSTRUCTION, AND SHOULD BE COMPLETED BY THE ELECTRICAL CONTRACTOR IN ACCORDANCE WITH NEC 250.											
b. ANY GAS PIPING SYSTEMS MUST BE BONDED PER UTILITY PROVIDER'S INSTALLATION GUIDELINES WHERE REQUIRED.											
19. MATERIALS											
a. PROVIDE ALL NEW MATERIAL AND EQUIPMENT UNLESS NOTED OTHERWISE. ALL EQUIPMENT SHALL BE UL APPROVED AND LABELED, OR OTHER APPROVED TESTING ORGANIZATION WHICH HAS ACCEPTANCE BY THE LOCAL JURISDICTION, FOR THE PURPOSE FOR WHICH THEY ARE USED. IN ADDITION TO MEETING ALL REQUIREMENTS OF THE CURRENT APPLICABLE CODES AND REGULATIONS, NO SUBSTITUTION TO MATERIALS SPECIFIED WILL BE ALLOWED UNLESS APPROVED BY THE OWNER.											
b. ELECTRICAL CONTRACTOR SHALL NOT ORDER OR PURCHASE ANY MATERIALS OR EQUIPMENT UNTIL PERMIT DRAWINGS HAVE BEEN APPROVED. NO ALLOWANCES WILL BE MADE FOR ANY CHANGES THAT OCCUR IF PERMIT DRAWINGS HAVE NOT BEEN APPROVED PRIOR TO ORDERING.											
20. CUTTING AND FITTING											
a. PERFORM CUTTING, CORING, FITTING, REPAIRING AND FINISHING OF THE WORK NECESSARY FOR THE INSTALLATION OF THE EQUIPMENT OF THIS SECTION. HOWEVER, NO CUTTING OF THE WORK OF OTHER TRADES OR OF ANY STRUCTURAL MEMBER SHALL BE DONE WITHOUT THE CONSENT OF THE OWNER, PROPERLY FILL, SEAL, FIREPROOF, AND WATERPROOF ALL OPENINGS, SLEEVES, AND HOLES IN SLABS, WALLS, AND CASEWORK.											
21. WIRING METHODS											
a. PROVIDE CODE APPROVED WIRING METHODS FOR BRANCH CIRCUITING INDOORS, SUCH AS NM CABLE (ONLY WHERE PERMITTED BY NEC 334), EMT CONDUIT, OR MC CABLE FOR MECHANICAL EQUIPMENT, LIGHTING, AND POWER.											
b. CONDUIT RUNS ON EXTERIOR OF BUILDING SHALL BE RIGID STEEL CONDUIT WITH WEATHER TIGHT, CORROSION-RESISTANT FITTINGS, SCHEDULE 40 PVC IS ACCEPTABLE WHERE PERMITTED BY CODE AND OR UNDERGROUND RUNS OR CONCRETE ENCASMENT WHERE NOT EXPOSED TO PHYSICAL DAMAGE.											
c. THE MINIMUM SIZE OF CONDUIT SHALL BE 3/4" UNLESS OTHERWISE NOTED. CONDUIT CONNECTORS SHALL BE DOUBLE LOCKNUT TYPE, UL LISTED AND LABELED, WITH COMPRESSION OR SET SCREW FITTINGS.											
d. RIGID CONDUIT SHALL BE HOT DIPPED GALVANIZED.											
e. WHERE RACEWAYS ARE INSTALLED FOR OTHERS TO USE, OR FOR FUTURE USE, PROVIDE NYLON PULL STRING.											
f. PENETRATIONS THROUGH FIRE RATED CONSTRUCTION SHALL BE SEALED USING 3M FIRE BARRIER CAULK, NELSON ELECTRIC FLAMESEAL OR T&B FLAMESAFE OR OTHER APPROVED METHOD.											
22. CONDUCTORS AND TERMINATIONS											
a. BRANCH CONDUCTORS SHALL BE COPPER, FEEDERS AS INDICATED ON RISER DIAGRAM. CONDUCTORS SHALL BE INSULATED FOR 600V NUMBER 12 AWG MINIMUM. PROVIDE WIRES AND CABLES AS INDICATED LISTED AND SUITABLE FOR TEMPERATURE, CONDITIONS, AND LOCATION WHERE INSTALLED.											
23. MOTORS AND OTHER WIRING											
a. THE ELECTRICAL CONTRACTOR SHALL PROVIDE ALL REQUIRED CONDUIT, WIRING, AND SAFETY SWITCHES FOR ALL MOTORS, AND OTHER ELECTRICAL EQUIPMENT, EVEN THOUGH THE MOTORS AND ELECTRICAL EQUIPMENT MAY BE SUPPLIED BY OTHERS. THE ELECTRICAL CONTRACTOR SHALL INCLUDE ALL WORK AND CONNECTIONS REQUIRED TO MAKE THE SYSTEM COMPLETE AND OPERATIONAL. PROVIDE MAGNETIC STARTERS FOR EQUIPMENT AS INDICATED ON THE DRAWINGS.											
b. THE ELECTRICAL EQUIPMENT MAY INCLUDE BUT NOT BE LIMITED TO SUCH ITEMS AS GRILLE MOTORS AND INVERTERS, EXTERIOR AND INTERIOR SIGNAGE, STARTING DEVICES, MOTOR CONTROLLERS, FLOAT SWITCHES, ALARM DEVICES OR SYSTEMS, PUSH BUTTONS, EXHAUST FANS, DATA SYSTEMS, INTERCOMS AND STEREO SYSTEMS. THE ELECTRICAL CONTRACTOR SHALL VERIFY EQUIPMENT LOCATION AND SIZES WITH THE TRADE SUPPLYING THE EQUIPMENT BEFORE INSTALLING THE CONDUIT OR OUTLETS.											
24. ELEVATOR(S)											
a. FURNISH AND INSTALL ALL REQUIRED ELECTRICAL COMPONENTS AND CONNECTIONS FOR ELEVATOR OPERATION. REFER TO ELEVATOR SHOP DRAWINGS FOR COMPLETE INFORMATION. PROVIDE SHUNT-TRIP OPERATION FOR ELEVATOR CIRCUIT WHERE REQUIRED. INCLUDE CONNECTIONS FOR SHAFT, SLUMP PUMP, PIT LIGHT, RECEPTACLE, CAB LIGHT, ETC. BASIS OF DESIGN HP AND CIRCUIT CHARACTERISTICS SHOWN ON DRAWINGS MUST BE VERIFIED WITH ELEVATOR SUPPLIER PRIOR TO ROUGH-IN OR INSTALLATION.											
25. DEVICES											
a. HUBBELL, LEVITON, OR APPROVED EQUAL WITH MATCHING COVERPLATES.											
b. PROVIDE SPECIFICATION GRADE WIRING DEVICES, IN TYPES, CHARACTERISTICS, GRADES, COLORS, AND ELECTRICAL RATINGS FOR APPLICATIONS INDICATED, WHICH ARE UNLISTED AND WHICH COMPLY WITH NEMA WD1 AND OTHER APPLICABLE UL AND NEMA STANDARDS. VERIFY COLOR SELECTIONS WITH ARCHITECT. PROVIDE DEVICE PLATES TO MATCH DEVICE COLORS.											
c. PROVIDE GFCI PROTECTION FOR ALL KITCHEN 15 AND 20-AMP RECEPTACLES WHERE THE RECEPTACLE IS RENDERED INACCESSIBLE BY EQUIPMENT PROVIDE GFCI PROTECTION AT THE CIRCUIT BREAKER.											
26. SERVICE ENTRANCE AND DISTRIBUTION EQUIPMENT											
a. ELECTRICAL CONTRACTOR MUST SUBMIT DRAWINGS FOR PERMIT AND RECEIVE APPROVAL PRIOR TO ORDERING EQUIPMENT. NO ALLOWANCES WILL BE MADE FOR EQUIPMENT CHANGES THAT OCCUR PRIOR TO RECEIPT OF APPROVED PLANS.											
27. TRANSFORMERS											
a. DRY TYPE TRANSFORMERS - 15KVA TO 500 KVA - 600 VOLTS OR LESS, SINGLE AND THREE-PHASE, CONCRETE PADS FOR TRANSFORMERS, PROPERLY SIZED FOR TRANSFORMER TAP COMPARTMENTS.											
b. ALL APPLICABLE MATERIAL SHALL CONFORM TO NEMA STANDARDS. ALL APPLICABLE MATERIAL SHALL BEAR UL LABELS.											
c. TRANSFORMERS SHALL BE VENTILATED TYPE, SINGLE AND/OR THREE-PHASE, 60 HERTZ, DRY TYPE, AIR COOLED, TWO WINDING, INSULATED, HIGH EFFICIENCY, LOW SOUND LEVEL, AS LISTED ON THE DRAWINGS. PROVIDE TRANSFORMERS OF SAME MANUFACTURER AS SWITCHBOARDS AND PANELBOARDS.											
d. COILS SHALL UTILIZE AN UNDERWRITERS' LABORATORY APPROVED, 220 (C INSULATION SYSTEM AND THE AVERAGE TEMPERATURE RISE SHALL NOT EXCEED 115°C ABOVE A 40°C MAXIMUM AMBIENT. ALL UNITS SHALL HAVE NEMA STANDARD TAPS: 2-2 1/2% AN AND 4-2 1/2% BN.											
e. CORES SHALL BE MANUFACTURED WITH A HIGH GRADE, NON-AGING SILICON STEEL STACKED WITHOUT GAPS AND FIRMLY CLAMPED. THE CORE AND COIL ASSEMBLY SHALL BE MOUNTED ON VIBRATION PADS AND BOLTED TO THE ENCLOSURE. THE ENCLOSURE FOR SEPARATELY MOUNTED TRANSFORMERS SHALL BE PROVIDED WITH LIFTING EYES OR BRACKETS NEMA-3R OUTDOOR, TO PREVENT ACCESS TO LIVE PARTS. TOP OF CASE TEMPERATURES SHALL NOT EXCEED UL ACCEPTABLE LEVELS.											
f. TRANSFORMERS SHALL BE INSTALLED ON MINIMUM 3-1/2" CONCRETE PADS, PLUMB AND LEVEL IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS AND APPLICABLE CODES.											
g. TERMINATE PRIMARY AND SECONDARY CONDUCTOR WITH COMPRESSION CONNECTORS. GROUNDING TO BE PER NEC.											
h. VERIFY INCOMING VOLTAGE TO TRANSFORMER AND SET TAPS AT THE VOLTAGE LEVEL.											
i. PROVIDE LOCKABLE BREAKERS FOR FEEDERS SUPPLYING TRANSFORMERS THAT ARE NOT LOCATED WITHIN SITE OF THE OVER-CURRENT PROTECTION. TRANSFORMERS SHALL BE FIELD MARKED WITH THE LOCATION OF THE OVER-CURRENT PROTECTION DEVICE.											
28. DISCONNECTS AND FUSED SWITCHES											
a. HEAVY DUTY TYPE, HORSEPOWER RATED WITH INTERLOCKING COVER, NEMA 1 TYPICAL. OUTDOOR AND WET LOCATION SWITCHES SHALL BE RAINTIGHT TYPE NEMA 3R. ALL SWITCHES SHALL BE LOCKABLE. FUSES IN CIRCUITS RATED AT 600 AMPERES OR LESS SHALL BE UL CLASS RK1 DUAL-ELEMENT, TIME-DELAY, CURRENT LIMITING FUSES. FUSES IN CIRCUITS RATED AT 601 AMPERES OR LARGER SHALL BE UL CLASS I TIME-DELAY, CURRENT LIMITING FUSES.											
29. NAMEPLATES											
a. PROVIDE PERMANENT NAMEPLATE LABELING ON ALL DISCONNECTS. INCLUDE LOAD SERVED, VOLTAGE, PHASE, HORSEPOWER, FUSE SIZE, AND TYPE.											
30. MOUNTING											
a. MOUNT INDEPENDENT OF THE MECHANICAL UNIT HOUSING UNLESS SPECIFICALLY ACCEPTED BY THE LOCAL CODE AUTHORITY. PROVIDE UNISTRUT SUPPORT CHANNELS MOUNTED IN COORDINATION WITH											
ROOF PENETRATION AND PATCHING WORK. COORDINATE WITH GENERAL CONTRACTOR.											
31. GROUNDING AND BONDING FOR ELECTRICAL SYSTEMS AND EQUIPMENT											
a. PROVIDE GROUNDING AND BONDING FOR ELECTRICAL SERVICE IN ACCORDANCE WITH NEC ARTICLE 250.											
b. ALL MAJOR PARTS NOT CARRYING CURRENT, INCLUDING BUT NOT LIMITED TO SECONDARY FEEDER CIRCUIT, EQUIPMENT AND PANELBOARD ENCLOSURES, PULL AND JUNCTION BOXES, SHALL BE PROPERLY GROUNDED. METALLIC RACEWAYS SHALL UTILIZE DOUBLE LOCKNUTS AND OTHER FITTINGS AS REQUIRED TO PROVIDE GROUND CONTINUITY.											
32. LIGHTING CONTACTORS											
a. PROVIDE LIGHTING CONTACTORS AS INDICATED ON DRAWINGS. 30A, 12-POLE LIGHTING CONTACTOR IN NEMA 1 ENCLOSURE.											
33. MULTI-TENANT METER CENTERS											
a. PROVIDE METER CENTER(S) AS SHOWN ON THE DRAWINGS AND AS SPECIFIED HEREIN. METER CENTERS SHALL HAVE MAIN LUGS ONLY OR MAIN BREAKERS AS REQUIRED, AND SHALL HAVE BRANCH BREAKER INSTALLED FOR EACH METER SOCKET. METER CENTERS SHALL BE EATON, SQUARE D, GE BY ABB, OR EQUAL, AND SHALL BE OF THE SAME MANUFACTURE AS LOAD CENTERS OR PANELBOARDS SERVED. METER CENTERS SHALL BE ENCLOSED NEMA 1, NEMA 3R AS REQUIRED. FINAL CONFIGURATION (NUMBER OF METERS PER SECTION, END-MAIN-CENTER-MAN, ETC. SHALL BE DETERMINED BY THE ELECTRICAL CONTRACTOR. ALL BUSSING MUST BE RATED FOR THE LOADS SERVED. METER CENTERS SHALL BE RATED TO WITHSTAND THE AVAILABLE FAULT CURRENT.											
34. PANELBOARDS											
a. PROVIDE BRANCH CIRCUIT PANELBOARD(S) AS SHOWN ON THE DRAWINGS AND AS SPECIFIED HEREIN. PANELBOARDS SHALL HAVE BOLTED, THERMAL AND MAGNETIC BREAKERS WITH MAIN LUGS ONLY OR MAIN BREAKERS AS REQUIRED. PANELBOARDS SHALL BE EATON, SQUARE D, GE BY ABB, OR EQUAL, AND BE ENCLOSED IN NEMA 1 TYPE HOUSING UNLESS NOTED OTHERWISE. ENCLOSURE(S) SHALL BE COMPLETE WITH A HINGED DOOR, CYLINDER LOCK, AND A NEATLY TYPED DIRECTORY UNDER PLASTIC COVER IN EACH PANEL DOOR. ALL MULTIPLE POLE BREAKERS SHALL HAVE A COMMON TRIP HANDLE. ALL PANELS AND BREAKERS SHALL BE RATED TO WITHSTAND AVAILABLE FAULT CURRENT.											
35. LIGHTING											
a. PROVIDE A NEW LIGHTING SYSTEM COMPLETE AND FULLY OPERATIONAL AND IN CONFORMANCE WITH CODE AND UL LISTING REQUIREMENTS. CLEAN ALL FIXTURES AT TIME OF JOB COMPLETION UTILIZING MANUFACTURERS APPROVED OR RECOMMENDED CLEANING SOLUTIONS. ALL FIXTURES AND LAMPS ARE PROVIDED BY THIS CONTRACTOR AS SCHEDULED UNLESS NOTED OTHERWISE. CONTRACTOR SHALL FURNISH ALL BOXES, MOUNTING KITS, TRANSFORMERS, CONTROLLERS, AND OTHER COMPONENTS NECESSARY FOR A COMPLETE AND FULLY FUNCTIONAL INSTALLATION.											
b. WHERE DIMMERS AND/OR DIMMING SYSTEMS ARE REQUIRED, CONTRACTOR TO FURNISH DIMMERS THAT ARE COMPATIBLE WITH FIXTURE SOURCE AND RATED FOR THE WATTAGE OF THE DIMMING ZONE. PROVIDE ADDITIONAL DIMMERS AS REQUIRED TO MEET ZONE LOAD REQUIREMENTS.											
36. GENERATORS											
a. GENERATORS, TRANSFER SWITCHES, FUEL CAPACITY/RUN-TIMES, AND START-UP/OPERATION REQUIREMENTS SHALL CONFORM TO THE REQUIREMENTS FOR THEIR USE - STAND-BY, LEGALLY REQUIRED STAND-BY, EMERGENCY, ETC. CONTRACTOR SHALL COORDINATE PAD REQUIREMENTS WITH GENERATOR SUPPLIER AND LOCATE ALL CONDUIT OPENINGS PER MANUFACTURER'S INSTALLATION GUIDES. PROVIDE ALL ANCILLARY WIRING FOR CONTROL, COMMUNICATION, BATTERY CHARGE, BLOCK HEATER, ETC. INSTALL PAD AND GENERATOR SUCH THAT REQUIRED CLEARANCES FROM BUILDINGS, BUILDING OPENINGS, AND OTHER OBSTRUCTIONS ARE MAINTAINED. COORDINATE GENERATOR CIRCUIT BREAKER/FEEDER REQUIREMENTS WITH ACTUAL EQUIPMENT BEING CONNECTED - FIRE PUMP, ETC. WHERE THE GENERATOR IS REQUIRED TO OPERATE AS A SEPARATELY DERIVED SYSTEM (GENERATOR SERVING MULTIPLE BUILDINGS/STRUCTURES FOR EXAMPLE) PROVIDE PROPER GROUNDING AND USE 4-POLE TRANSFER SWITCHES AS REQUIRED BY NEC 250.											
37. TELEPHONE SYSTEM											
a. TELEPHONE WIRING AND SYSTEM PROVIDED BY OWNER. VERIFY SYSTEM REQUIREMENTS AND ROUGH-IN LOCATIONS WITH OWNER PRIOR TO START OF CONSTRUCTION. ELECTRICAL CONTRACTOR SHALL PROVIDE PLASTER RING AND PULL STRING FROM EACH DEVICE LOCATION TO ABOVE ACCESSIBLE CEILING.											
38. SECURITY SYSTEM NOTES											
a. SECURITY WIRING AND SYSTEM PROVIDED BY OWNER. VERIFY SYSTEM REQUIREMENTS AND ROUGH-IN LOCATIONS WITH OWNER PRIOR TO START OF CONSTRUCTION. PROVIDE POWER FOR OWNER'S HEAD-END EQUIPMENT AND REMOTE POWER FOR SECURE DOORS AS REQUIRED.											
39. DATA/POS/A-V/SYSTEM NOTES											
a. DATA, POS AND/OR A-V WIRING AND SYSTEMS PROVIDED BY OWNER. VERIFY SYSTEM REQUIREMENTS AND ROUGH-IN LOCATIONS WITH OWNER PRIOR TO START OF CONSTRUCTION. ELECTRICAL CONTRACTOR SHALL PROVIDE PLASTER RING AND PULL STRING FROM EACH DEVICE LOCATION TO ABOVE ACCESSIBLE CEILING.											
40. FIRE ALARM SYSTEM											
a. FIRE ALARM SYSTEM TO BE DESIGN-BUILD BY CONTRACTOR. CONTRACTOR SHALL PROVIDE ALL REQUIRED DRAWINGS AND SUBMIT TO AUTHORITIES. REFER TO ARCHITECT'S CODE SHEET FOR RELEVANT DESIGN CRITERIA. SUBMIT DRAWINGS TO OWNER/ARCHITECT FOR REVIEW PRIOR TO SUBMITTING TO AUTHORITIES. PROVIDE REQUIRED ITEMS INCLUDING BUT NOT LIMITED TO RELAY MODULES, MONITOR MODULES, RETURN-AIR DETECTORS, ELEVATOR RECALL, ETC. PROVIDE REMOTE ANNUNCIATOR PANEL(S) AT LOCATION(S) APPROVED BY ARCHITECT AND AUTHORITIES.											

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Drawing Title
ELECTRICAL DETAILS

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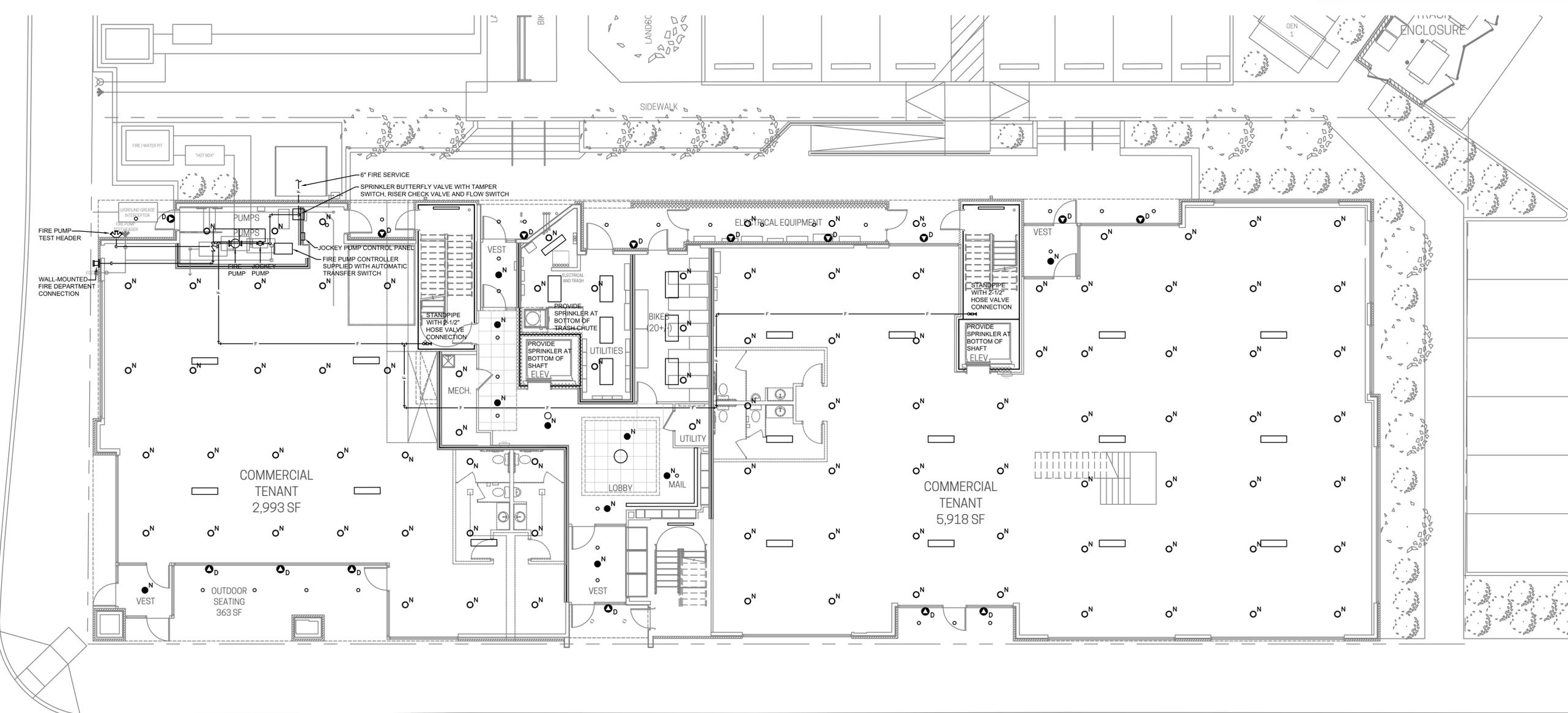
1	2	3	4	5	6	7	8	9	10	11	12	
<p>ELECTRICAL SPECIFICATIONS</p> <p>1. GENERAL DEMOLITION</p> <p>a. REFER TO ARCHITECTURAL DRAWINGS, GENERAL NOTES, INSTRUCTIONS TO BIDDERS, GENERAL CONDITIONS, SUPPLEMENTARY GENERAL CONDITIONS, BASE BUILDING SPECIFICATIONS AND DRAWINGS, SHOP DRAWING MANUALS AND AS-BUILT PLANS, EXCEPT AS NOTED HEREIN, WHICH APPLY IN ALL RESPECTS TO THIS SECTION. THE CONTRACTOR SHALL VISIT THE SITE AND FAMILIARIZE HIMSELF WITH ALL EXISTING CONDITIONS PRIOR TO BIDDING THE WORK</p> <p>2. USE OF DRAWINGS AND SPECIFICATIONS</p> <p>a. EBS DRAWINGS AND SPECIFICATIONS ARE INTENDED TO CONVEY DESIGN INTENT ONLY. ALL MEANS AND METHODS SEQUENCES, TECHNIQUES, AND PROCEDURES OF CONSTRUCTION AS WELL AS ANY ASSOCIATED SAFETY PRECAUTIONS AND PROGRAMS, AND ALL INCIDENTAL AND TEMPORARY DEVICES REQUIRED TO CONSTRUCT THE PROJECT, AND TO PROVIDE A COMPLETE AND FULLY OPERATIONAL ELECTRICAL SYSTEM ARE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR.</p> <p>3. STANDARDS</p> <p>a. MATERIALS EQUIPMENT AND MATERIALS SHALL CONFORM WITH APPROPRIATE PROVISIONS OF NEC, ASTM, UL, ETL, NEMA, ANSI, AS APPLICABLE TO EACH INDIVIDUAL UNIT OR ASSEMBLY.</p> <p>4. CODES</p> <p>a. ALL WORK SHALL BE PERFORMED IN STRICT ACCORDANCE WITH ALL APPLICABLE STATE AND LOCAL CODES AND ORDINANCES. IN CASE OF CONFLICT BETWEEN THE DRAWINGS/SPECIFICATIONS AND THE CODES AND ORDINANCES, THE HIGHEST STANDARD SHALL APPLY. THE ELECTRICAL CONTRACTOR SHALL SATISFY CODE REQUIREMENTS AS A MINIMUM STANDARD WITHOUT ANY EXTRA COST TO OWNER.</p> <p>5. PERMITS AND FEES</p> <p>a. THE ELECTRICAL CONTRACTOR SHALL PROCURE AND PAY FOR ALL PERMITS, FEES AND INSPECTIONS NECESSARY TO COMPLETE THE ELECTRICAL WORK.</p> <p>6. WARRANTY</p> <p>a. THE ELECTRICAL CONTRACTOR SHALL UNCONDITIONALLY WARRANT ALL WORK TO BE FREE OF DEFECTS IN MATERIAL AND WORKMANSHIP FOR A PERIOD OF ONE (1) YEAR FROM THE DATE OF FINAL ACCEPTANCE, AND WILL REPAIR OR REPLACE ANY DEFECTIVE WORK PROMPTLY AND WITHOUT CHARGE, AND RESTORE ANY OTHER EXISTING WORK DAMAGED IN THE COURSE OF REPAIRING DEFECTIVE MATERIALS AND WORKMANSHIP.</p> <p>7. SITE EXAMINATION</p> <p>a. THE ELECTRICAL CONTRACTOR SHALL THOROUGHLY EXAMINE ALL AREAS OF WORK WHERE EQUIPMENT WILL BE INSTALLED AND SHALL REPORT ANY CONDITION THAT, IN HIS OPINION, PREVENTS THE PROPER INSTALLATION OF THE ELECTRICAL WORK PRIOR TO BID. HE SHALL ALSO EXAMINE THE DRAWINGS AND SPECIFICATIONS OF OTHER BRANCHES OF WORK MAKING REFERENCE TO THEM FOR DETAILS OF NEW OR EXISTING BUILDING CONDITIONS.</p> <p>b. ALL WORK SHALL BE DONE AT TIMES CONVENIENT TO THE OWNER AND ONLY DURING NORMAL WORKING HOURS, UNLESS SPECIFIED OTHERWISE.</p> <p>c. ELECTRICAL CONTRACTOR SHALL TAKE HIS OWN MEASUREMENTS AND BE RESPONSIBLE FOR THEM.</p> <p>d. ACCESS PANELS ARE NOT SHOWN ON DRAWINGS. DURING SITE EXAMINATION, CONTRACTOR SHALL IDENTIFY ALL AREAS WHERE ACCESS PANELS ARE REQUIRED, AND REPORT TO GENERAL CONTRACTOR. DESIGNATION OF WHO FURNISHES AND WHO INSTALLS ACCESS PANELS MUST BE COORDINATED WITH GENERAL CONTRACTOR PRIOR TO STARTING WORK.</p> <p>8. CONTRACTOR COORDINATION</p> <p>a. COORDINATION DRAWINGS SHOWING SYSTEM AND COMPONENT INSTALLATION LAYOUT, ROUTING, DETAILS, ETC SHALL BE PRODUCED BY THE ELECTRICAL CONTRACTOR AND UNDER THE SUPERVISION OF THE GENERAL CONTRACTOR/CONSTRUCTION MANAGER, OR APPROPRIATE PARTY AS APPLICABLE.</p> <p>b. ALL SYSTEMS INSTALLED BY EACH SUB-CONTRACTOR SHALL BE COORDINATED WITH ONE ANOTHER AND APPROVED BY GENERAL CONTRACTOR/CONSTRUCTION MANAGER, ETC. PRIOR TO INSTALLATION AND/OR FABRICATION. WHERE THE ELECTRICAL CONTRACTOR IS MAKING A CONNECTION TO EQUIPMENT/COMPONENTS THAT ARE FURNISHED BY OTHERS, ELECTRICAL CONTRACTOR TO VERIFY ALL CONNECTION REQUIREMENTS WITH ACTUAL EQUIPMENT BEING CONNECTED, INCLUDING BUT NOT LIMITED TO OCP SIZE, MEANS OF DISCONNECT, SPECIAL CONNECTION REQUIREMENTS, OR OTHER ITEMS INDICATED ON SHOP DRAWINGS, OR MANUFACTURER'S INSTALLATION INSTRUCTIONS AND/OR INSTALLATION DIAGRAMS, AND FURNISH ALL LABOR AND MATERIALS REQUIRED FOR THE INSTALLATION AND OPERATION OF THE EQUIPMENT. NO ALLOWANCES WILL BE MADE FOR FAILURE TO COORDINATE, AFTER ELECTRICAL CONNECTIONS HAVE BEEN INSTALLED.</p> <p>c. IF QUESTIONS CONCERNING DESIGN INTENT ARISE DURING COORDINATION, EBS CAN ASSIST WHERE APPROPRIATE.</p> <p>d. THE ARCHITECTURAL DRAWINGS SHALL TAKE PRECEDENCE OVER ALL OTHER DRAWINGS. DO NOT SCALE DISTANCES OFF THE ELECTRICAL DRAWINGS; USE ACTUAL BUILDING DIMENSIONS.</p> <p>e. COORDINATION DRAWINGS SHOWING SYSTEM AND COMPONENT INSTALLATION LAYOUT, ROUTING, DETAILS, ETC SHALL BE PRODUCED BY THE ELECTRICAL CONTRACTOR AND UNDER THE SUPERVISION OF THE GENERAL CONTRACTOR/CONSTRUCTION MANAGER, OR APPROPRIATE PARTY AS APPLICABLE. ALL SYSTEMS INSTALLED BY EACH SUB-CONTRACTOR SHALL BE COORDINATED WITH ONE ANOTHER AND APPROVED BY GENERAL CONTRACTOR/CONSTRUCTION MANAGER, ETC. PRIOR TO INSTALLATION AND/OR FABRICATION. IF QUESTIONS CONCERNING DESIGN INTENT ARISE DURING COORDINATION, EBS CAN ASSIST WHERE APPROPRIATE.</p> <p>9. UTILITY COORDINATION</p> <p>a. ELECTRICAL CONTRACTOR TO VERIFY INSTALLATION OF METERING AND UTILITY DEMARCATION EQUIPMENT WITH UTILITY PROVIDER PRIOR TO START OF WORK AND FURNISH AND INSTALL REQUIRED ITEMS PER UTILITY COMPANY'S INSTALLATION REQUIREMENTS AND/OR MANUALS.</p> <p>10. SUBMITTALS</p> <p>a. PRODUCTS INSTALLED BY THE ELECTRICAL CONTRACTOR AND PROVIDED BY OTHERS MUST BE SUBMITTED FOR REVIEW PRIOR TO PURCHASING. PRODUCTS SHALL NOT BE SELECTED BASED ON PERMIT DRAWINGS WITHOUT EXPRESS PERMISSION - PRODUCTS SHALL BE SELECTED BASED ON CONSTRUCTION DRAWINGS.</p> <p>11. RECORD DRAWING</p> <p>a. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR CREATING RECORD DRAWINGS WHERE REQUIRED. DRAWINGS SHALL BE PRODUCED IN AUTOCAD 2004 FORMAT OR LATER.</p> <p>12. SHOP DRAWINGS</p> <p>a. SUBMIT TO THE ARCHITECT PDF FILE COPIES OF COMPLETE & CERTIFIED SHOP DRAWINGS, DESCRIPTIVE DATA, PERFORMANCE DATA & RATINGS, DIAGRAMS AND SPECIFICATIONS ON ALL SPECIFIED EQUIPMENT, INCLUDING ACCESSORIES, AND MATERIALS FOR REVIEW.</p> <p>b. THE MAKE, MODEL NUMBER, TYPE, FINISH & ACCESSORIES OF ALL EQUIPMENT AND MATERIALS SHALL BE REVIEWED & APPROVED BY THE ELECTRICAL CONTRACTOR & GENERAL CONTRACTOR PRIOR TO SUBMITTING TO THE ARCHITECT FOR THEIR REVIEW & APPROVAL.</p> <p>c. REVIEW OF SHOP DRAWINGS DOES NOT RELIEVE THE ELECTRICAL CONTRACTOR/VENDOR FROM COMPLIANCE WITH THE REQUIREMENTS OF THE CONTRACT DRAWINGS, SPECIFICATIONS & APPLICABLE CODES.</p> <p>13. TESTING</p> <p>a. ALL ELECTRICAL SYSTEMS SHALL BE TESTED FOR PROPER OPERATION, BALANCE ALL BRANCH CIRCUIT LOADS BETWEEN THE PHASES OF THE SYSTEM TO WITHIN 10% OF THE HIGHEST PHASE LOAD IN EACH PANELBOARD.</p> <p>14. TEMPORARY POWER</p> <p>a. THE ELECTRICAL CONTRACTOR SHALL PROVIDE TEMPORARY ELECTRICAL WIRING FOR CONSTRUCTION. THE TEMPORARY SERVICE SHALL BE A MINIMUM OF 60 AMPS, SINGLE PHASE, THREE WIRE, 120/208 VOLTS FUSED AT MAIN DISCONNECT. ALL RECEPTACLES ON THIS TEMPORARY SERVICE SHALL BE PROTECTED BY A GFI BREAKER.</p> <p>15. MECHANICAL EQUIPMENT</p> <p>a. ALL FINAL CONNECTIONS TO MECHANICAL EQUIPMENT SHALL BE DONE BY THE ELECTRICAL CONTRACTOR.</p> <p>16. DEMOLITION</p> <p>a. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR DEENERGIZING CIRCUITS IN DEMOLITION AREA TO INSURE A SAFE CONDITION. ELECTRICAL DEVICES AND ASSOCIATED WIRING LOCATED WITHIN THE DEMOLITION AREA THAT WILL NO LONGER BE USED SHALL BE REMOVED AND PROPERLY DISPOSED OF AT CONTRACTOR'S EXPENSE UNLESS OTHERWISE NOTED.</p> <p>17. POWER OUTAGES</p> <p>a. THE ELECTRICAL CONTRACTOR SHALL SCHEDULE ALL ELECTRICAL SYSTEMS' OUTAGES WITH THE GENERAL CONTRACTOR AND OWNER AT LEAST 24 HOURS IN ADVANCE. UNLESS APPROVED OTHERWISE ALL OUTAGES SHALL OCCUR BETWEEN 11:00PM AND 5:00AM.</p> <p>18. GROUNDING AND BONDING</p> <p>a. CONTRACTOR TO PROVIDE GROUNDING AND BONDING AS REQUIRED FOR ELECTRICAL SYSTEMS. GROUNDING AND BONDING IS CONSIDERED MEANS AND METHODS OF CONSTRUCTION, AND SHOULD BE COMPLETED BY THE ELECTRICAL CONTRACTOR IN ACCORDANCE WITH NEC 250.</p> <p>b. ANY GAS PIPING SYSTEMS MUST BE BONDED PER UTILITY PROVIDER'S INSTALLATION GUIDELINES WHERE REQUIRED.</p> <p>19. MATERIALS</p> <p>a. PROVIDE ALL NEW MATERIAL AND EQUIPMENT UNLESS NOTED OTHERWISE. ALL EQUIPMENT SHALL BE UL APPROVED AND LABELED, OR OTHER APPROVED TESTING ORGANIZATION WHICH HAS ACCEPTANCE BY THE LOCAL JURISDICTION. FOR THE PURPOSE FOR WHICH THEY ARE USED. IN ADDITION TO MEETING ALL REQUIREMENTS OF THE CURRENT APPLICABLE CODES AND REGULATIONS, NO SUBSTITUTION TO MATERIALS SPECIFIED WILL BE ALLOWED UNLESS APPROVED BY THE OWNER.</p> <p>b. ELECTRICAL CONTRACTOR SHALL NOT ORDER OR PURCHASE ANY MATERIALS OR EQUIPMENT UNTIL PERMIT DRAWINGS HAVE BEEN APPROVED. NO ALLOWANCES WILL BE MADE FOR ANY CHANGES THAT OCCUR IF PERMIT DRAWINGS HAVE NOT BEEN APPROVED PRIOR TO ORDERING.</p> <p>20. CUTTING AND FITTING</p> <p>a. PERFORM CUTTING, CORING, FITTING, REPAIRING AND FINISHING OF THE WORK NECESSARY FOR THE INSTALLATION OF THE EQUIPMENT OF THIS SECTION. HOWEVER, NO CUTTING OF THE WORK OF OTHER TRADES OR OF ANY STRUCTURAL MEMBER SHALL BE DONE WITHOUT THE CONSENT OF THE OWNER, PROPERLY FILL, SEAL, FIREPROOF, AND WATERPROOF ALL OPENINGS, SLEEVES, AND HOLES IN SLABS, WALLS, AND CASEWORK.</p> <p>21. WIRING METHODS</p> <p>a. PROVIDE CODE APPROVED WIRING METHODS FOR BRANCH CIRCUITING INDOORS, SUCH AS NM CABLE (ONLY WHERE PERMITTED BY NEC 334), EMT CONDUIT, OR MC CABLE FOR MECHANICAL EQUIPMENT, LIGHTING, AND POWER.</p> <p>b. CONDUIT RUNS ON EXTERIOR OF BUILDING SHALL BE RIGID STEEL CONDUIT WITH WEATHER TIGHT, CORROSION-RESISTANT FITTINGS, SCHEDULE 40 PVC IS ACCEPTABLE WHERE PERMITTED BY CODE AND OR UNDERGROUND RUNS OR CONCRETE ENCASMENT WHERE NOT EXPOSED TO PHYSICAL DAMAGE.</p> <p>c. THE MINIMUM SIZE OF CONDUIT SHALL BE 3/4" UNLESS OTHERWISE NOTED. CONDUIT CONNECTORS SHALL BE DOUBLE LOCKNUT TYPE, UL LISTED AND LABELED, WITH COMPRESSION OR SET SCREW FITTINGS.</p> <p>d. RIGID CONDUIT SHALL BE HOT DIPPED GALVANIZED.</p> <p>e. WHERE RACEWAYS ARE INSTALLED FOR OTHERS TO USE, OR FOR FUTURE USE, PROVIDE NYLON PULL STRING.</p> <p>f. PENETRATIONS THROUGH FIRE RATED CONSTRUCTION SHALL BE SEALED USING 3M FIRE BARRIER CAULK, NELSON ELECTRIC FLAMESEAL OR T&B FLAMESAFE OR OTHER APPROVED METHOD.</p> <p>22. CONDUCTORS AND TERMINATIONS</p> <p>a. BRANCH CONDUCTORS SHALL BE COPPER, FEEDERS AS INDICATED ON RISER DIAGRAM. CONDUCTORS SHALL BE INSULATED FOR 600V NUMBER 12 AWG MINIMUM. PROVIDE WIRES AND CABLES AS INDICATED LISTED AND SUITABLE FOR TEMPERATURE, CONDITIONS, AND LOCATION WHERE INSTALLED.</p> <p>23. MOTORS AND OTHER WIRING</p> <p>a. THE ELECTRICAL CONTRACTOR SHALL PROVIDE ALL REQUIRED CONDUIT, WIRING, AND SAFETY SWITCHES FOR ALL MOTORS, AND OTHER ELECTRICAL EQUIPMENT, EVEN THOUGH THE MOTORS AND ELECTRICAL EQUIPMENT MAY BE SUPPLIED BY OTHERS. THE ELECTRICAL CONTRACTOR SHALL INCLUDE ALL WORK AND CONNECTIONS REQUIRED TO MAKE THE SYSTEM COMPLETE AND OPERATIONAL. PROVIDE MAGNETIC STARTERS FOR EQUIPMENT AS INDICATED ON THE DRAWINGS.</p> <p>b. THE ELECTRICAL EQUIPMENT MAY INCLUDE BUT NOT BE LIMITED TO SUCH ITEMS AS GRILLE MOTORS AND INTERLOCKS, EXTERIOR AND INTERIOR SIGNAGE, STARTING DEVICES, MOTOR CONTROLLERS, FLOAT SWITCHES, ALARM DEVICES OR SYSTEMS, PUSH BUTTONS, EXHAUST FANS, DATA SYSTEMS, INTERCOMS AND STEREO SYSTEMS. THE ELECTRICAL CONTRACTOR SHALL VERIFY EQUIPMENT LOCATION AND SIZES WITH THE TRADE SUPPLYING THE EQUIPMENT BEFORE INSTALLING THE CONDUIT OR OUTLETS.</p> <p>24. ELEVATOR(S)</p> <p>a. FURNISH AND INSTALL ALL REQUIRED ELECTRICAL COMPONENTS AND CONNECTIONS FOR ELEVATOR OPERATION. REFER TO ELEVATOR SHOP DRAWINGS FOR COMPLETE INFORMATION. PROVIDE SHUNT-TRIP OPERATION FOR ELEVATOR CIRCUIT WHERE REQUIRED. INCLUDE CONNECTIONS FOR SHAFT, SUMP PUMP, PIT LIGHT, RECEPTACLE, CAB LIGHT, ETC. BASIS OF DESIGN HP AND CIRCUIT CHARACTERISTICS SHOWN ON DRAWINGS MUST BE VERIFIED WITH ELEVATOR SUPPLIER PRIOR TO ROUGH-IN OR INSTALLATION.</p> <p>25. DEVICES</p> <p>a. HUBBELL, LEVITON, OR APPROVED EQUAL WITH MATCHING COVERPLATES.</p> <p>b. PROVIDE SPECIFICATION GRADE WIRING DEVICES, IN TYPES, CHARACTERISTICS, GRADES, COLORS, AND ELECTRICAL RATINGS FOR APPLICATIONS INDICATED, WHICH ARE UNLISTED AND WHICH COMPLY WITH NEMA WD1 AND OTHER APPLICABLE UL AND NEMA STANDARDS. VERIFY COLOR SELECTIONS WITH ARCHITECT. PROVIDE DEVICE PLATES TO MATCH DEVICE COLORS.</p> <p>c. PROVIDE GFCI PROTECTION FOR ALL KITCHEN 15 AND 20-AMP RECEPTACLES, WHERE THE RECEPTACLE IS RENDERED INACCESSIBLE BY EQUIPMENT PROVIDE GFCI PROTECTION AT THE CIRCUIT BREAKER.</p> <p>26. SERVICE ENTRANCE AND DISTRIBUTION EQUIPMENT</p> <p>a. ELECTRICAL CONTRACTOR MUST SUBMIT DRAWINGS FOR PERMIT AND RECEIVE APPROVAL PRIOR TO ORDERING EQUIPMENT. NO ALLOWANCES WILL BE MADE FOR EQUIPMENT CHANGES THAT OCCUR PRIOR TO RECEIPT OF APPROVED PLANS.</p> <p>27. TRANSFORMERS</p> <p>a. DRY TYPE TRANSFORMERS - 15KVA TO 500 KVA - 600 VOLTS OR LESS, SINGLE AND THREE-PHASE, CONCRETE PADS FOR TRANSFORMERS, PROPERLY SIZED FOR TRANSFORMER TAP COMPARTMENTS.</p> <p>b. ALL APPLICABLE MATERIAL SHALL CONFORM TO NEMA STANDARDS. ALL APPLICABLE MATERIAL SHALL BEAR UL LABELS.</p> <p>c. TRANSFORMERS SHALL BE VENTILATED TYPE, SINGLE AND/OR THREE-PHASE, 60 HERTZ, DRY TYPE, AIR COOLED, TWO WINDING, INSULATED, HIGH EFFICIENCY, LOW SOUND LEVEL, AS LISTED ON THE DRAWINGS. PROVIDE TRANSFORMERS OF SAME MANUFACTURER AS SWITCHBOARDS AND PANELBOARDS.</p> <p>d. COILS SHALL UTILIZE AN UNDERWRITERS' LABORATORY APPROVED, 220 C INSULATION SYSTEM AND THE AVERAGE TEMPERATURE RISE SHALL NOT EXCEED 115°C ABOVE A 40°C MAXIMUM AMBIENT. ALL UNITS SHALL HAVE NEMA STANDARD TAPS: 2-1/2% AN AND 4-2 1/2% BN.</p> <p>e. CORES SHALL BE MANUFACTURED WITH A HIGH GRADE, NON-AGING SILICON STEEL STACKED WITHOUT GAPS AND FIRMLY CLAMPED. THE CORE AND COIL ASSEMBLY SHALL BE MOUNTED ON VIBRATION PADS AND BOLTED TO THE ENCLOSURE. THE ENCLOSURE FOR SEPARATELY MOUNTED TRANSFORMERS SHALL BE PROVIDED WITH LIFTING EYES OR BRACKETS NEMA-3R OUTDOOR, TO PREVENT ACCESS TO LIVE PARTS. TOP OF CASE TEMPERATURES SHALL NOT EXCEED UL ACCEPTABLE LEVELS.</p> <p>f. TRANSFORMERS SHALL BE INSTALLED ON MINIMUM 3-1/2" CONCRETE PADS, PLUMB AND LEVEL IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS AND APPLICABLE CODES.</p> <p>g. TERMINATE PRIMARY AND SECONDARY CONDUCTOR WITH COMPRESSION CONNECTORS. GROUNDING TO BE PER NEC.</p> <p>h. VERIFY INCOMING VOLTAGE TO TRANSFORMER AND SET TAPS AT THE VOLTAGE LEVEL.</p> <p>i. PROVIDE LOCKABLE BREAKERS FOR FEEDERS SUPPLYING TRANSFORMERS THAT ARE NOT LOCATED WITHIN SITE OF THE OVER-CURRENT PROTECTION. TRANSFORMERS SHALL BE FIELD MARKED WITH THE LOCATION OF THE OVER-CURRENT PROTECTION DEVICE.</p> <p>28. DISCONNECTS AND FUSED SWITCHES</p> <p>a. HEAVY DUTY TYPE, HORSEPOWER RATED WITH INTERLOCKING COVER, NEMA 1 TYPICAL. OUTDOOR AND WET LOCATION SWITCHES SHALL BE RAINTIGHT TYPE NEMA 3R. ALL SWITCHES SHALL BE LOCKABLE. FUSES IN CIRCUITS RATED AT 600 AMPERES OR LESS SHALL BE UL CLASS RK1 DUAL-ELEMENT, TIME-DELAY, CURRENT LIMITING FUSES. FUSES IN CIRCUITS RATED AT 601 AMPERES OR LARGER SHALL BE UL CLASS I TIME-DELAY, CURRENT LIMITING FUSES.</p> <p>29. NAMEPLATES</p> <p>a. PROVIDE PERMANENT NAMEPLATE LABELING ON ALL DISCONNECTS, INCLUDE LOAD SERVED, VOLTAGE, PHASE, HORSEPOWER, FUSE SIZE, AND TYPE.</p> <p>30. MOUNTING</p> <p>a. MOUNT INDEPENDENT OF THE MECHANICAL UNIT HOUSING UNLESS SPECIFICALLY ACCEPTED BY THE LOCAL CODE AUTHORITY. PROVIDE UNISTRUT SUPPORT CHANNELS MOUNTED IN COORDINATION WITH</p> <p>ROOF PENETRATION AND PATCHING WORK. COORDINATE WITH GENERAL CONTRACTOR.</p> <p>31. GROUNDING AND BONDING FOR ELECTRICAL SYSTEMS AND EQUIPMENT</p> <p>a. PROVIDE GROUNDING AND BONDING FOR ELECTRICAL SERVICE IN ACCORDANCE WITH NEC ARTICLE 250.</p> <p>b. ALL MAJOR PARTS NOT CARRYING CURRENT, INCLUDING BUT NOT LIMITED TO SECONDARY FEEDER CIRCUIT, EQUIPMENT AND PANELBOARD ENCLOSURES, PULL AND JUNCTION BOXES, SHALL BE PROPERLY GROUNDED. METALLIC RACEWAYS SHALL UTILIZE DOUBLE LOCKNUTS AND OTHER FITTINGS AS REQUIRED TO PROVIDE GROUND CONTINUITY.</p> <p>32. LIGHTING CONTACTORS</p> <p>a. PROVIDE LIGHTING CONTACTORS AS INDICATED ON DRAWINGS. 30A, 12-POLE LIGHTING CONTACTOR IN NEMA 1 ENCLOSURE.</p> <p>33. MULTI-TENANT METER CENTERS</p> <p>a. PROVIDE METER CENTER(S) AS SHOWN ON THE DRAWINGS AND AS SPECIFIED HEREIN. METER CENTERS SHALL HAVE MAIN LUGS ONLY OR MAIN BREAKERS AS REQUIRED, AND SHALL HAVE BRUSH BREAKER INSTALLED FOR EACH METER SOCKET. METER CENTERS SHALL BE EATON, SQUARE D, GE BY ABB, OR EQUAL, AND SHALL BE OF THE SAME MANUFACTURE AS LOAD CENTERS OR PANELBOARDS SERVED. METER CENTERS SHALL BE ENCLOSED NEMA 1, NEMA 3R AS REQUIRED. FINAL CONFIGURATION (NUMBER OF METERS PER SECTION, END-MAIN/CENTER-MAIN, ETC) SHALL BE DETERMINED BY CONTRACTOR. ALL BUSSES MUST BE RATED FOR THE AVAILABLE FAULT CURRENT.</p> <p>34. PANELBOARDS</p> <p>a. PROVIDE BRANCH CIRCUIT PANELBOARD(S) AS SHOWN ON THE DRAWINGS AND AS SPECIFIED HEREIN. PANELBOARDS SHALL HAVE BOLTED, THERMAL AND MAGNETIC BREAKERS WITH MAIN LUGS ONLY OR MAIN BREAKERS AS REQUIRED. PANELBOARDS SHALL BE EATON, SQUARE D, GE BY ABB, OR EQUAL, AND BE ENCLOSED IN NEMA 1 TYPE HOUSING UNLESS NOTED OTHERWISE. ENCLOSURE(S) SHALL BE COMPLETE WITH A HINGED DOOR, CYLINDER LOCK, AND A NEATLY TYPED DIRECTOR'S LABEL UNDER PLASTIC COVER IN EACH PANEL DOOR. ALL MULTIPLE POLE BREAKERS SHALL HAVE A COMMON TRIP HANDLE. ALL PANELS AND BREAKERS SHALL BE RATED TO WITHSTAND AVAILABLE FAULT CURRENT.</p> <p>35. LIGHTING</p> <p>a. PROVIDE A NEW LIGHTING SYSTEM COMPLETE AND FULLY OPERATIONAL AND IN CONFORMANCE WITH CODE AND UL LISTING REQUIREMENTS. CLEAN ALL FIXTURES AT TIME OF JOB COMPLETION UTILIZING MANUFACTURERS APPROVED OR RECOMMENDED CLEANING SOLUTIONS. ALL FIXTURES AND LAMPS ARE PROVIDED BY THIS CONTRACTOR AS SCHEDULED UNLESS NOTED OTHERWISE. CONTRACTOR SHALL FURNISH ALL BOXES, MOUNTING KITS, TRANSFORMERS, CONTROLLERS, AND OTHER COMPONENTS NECESSARY FOR A COMPLETE AND FULLY FUNCTIONAL INSTALLATION.</p> <p>b. WHERE DIMMERS AND/OR DIMMING SYSTEMS ARE REQUIRED, CONTRACTOR TO FURNISH DIMMERS THAT ARE COMPATIBLE WITH FIXTURE SOURCE AND RATED FOR THE WATTAGE OF THE DIMMING ZONE. PROVIDE ADDITIONAL DIMMERS AS REQUIRED TO MEET ZONE LOAD REQUIREMENTS.</p> <p>36. GENERATORS</p> <p>a. GENERATORS, TRANSFER SWITCHES, FUEL CAPACITY/RUN-TIMES, AND START-UP/OPERATION REQUIREMENTS SHALL CONFORM TO THE REQUIREMENTS FOR THEIR USE - STAND-BY, LEGALLY REQUIRED STAND-BY, EMERGENCY, ETC. CONTRACTOR SHALL COORDINATE PAD REQUIREMENTS WITH GENERATOR SUPPLIER AND LOCATE ALL CONDUIT OPENINGS PER MANUFACTURER'S INSTALLATION GUIDES. PROVIDE ALL ANCILLARY WIRING FOR CONTROL, COMMUNICATION, BATTERY CHARGE, BLOCK HEATER, ETC. INSTALL PAD AND GENERATOR SUCH THAT REQUIRED CLEARANCES FROM BUILDINGS, BUILDING OPENINGS, AND OTHER OBSTRUCTIONS ARE MAINTAINED. COORDINATE GENERATOR CIRCUIT BREAKER/FEEDER REQUIREMENTS WITH ACTUAL EQUIPMENT BEING CONNECTED - FIRE PUMP, ETC. WHERE THE GENERATOR IS REQUIRED TO OPERATE AS A SEPARATELY DERIVED SYSTEM (GENERATOR SERVING MULTIPLE BUILDINGS/STRUCTURES FOR EXAMPLE) PROVIDE PROPER GROUNDING AND USE 4-POLE TRANSFER SWITCHES AS REQUIRED BY NEC 250.</p> <p>37. TELEPHONE SYSTEM</p> <p>a. TELEPHONE WIRING AND SYSTEM PROVIDED BY OWNER. VERIFY SYSTEM REQUIREMENTS AND ROUGH-IN LOCATIONS WITH OWNER PRIOR TO START OF CONSTRUCTION. ELECTRICAL CONTRACTOR SHALL PROVIDE PLASTER RING AND PULL STRING FROM EACH DEVICE LOCATION TO ABOVE ACCESSIBLE CEILING.</p> <p>38. SECURITY SYSTEM NOTES</p> <p>a. SECURITY WIRING AND SYSTEM PROVIDED BY OWNER. VERIFY SYSTEM REQUIREMENTS AND ROUGH-IN LOCATIONS WITH OWNER PRIOR TO START OF CONSTRUCTION. PROVIDE POWER FOR OWNERS HEAD-END EQUIPMENT AND REMOTE POWER FOR SECURE DOORS AS REQUIRED.</p> <p>39. DATA/POS/A-V/SYSTEM NOTES</p> <p>a. DATA, POS AND/OR A-V WIRING AND SYSTEMS PROVIDED BY OWNER. VERIFY SYSTEM REQUIREMENTS AND ROUGH-IN LOCATIONS WITH OWNER PRIOR TO START OF CONSTRUCTION. ELECTRICAL CONTRACTOR SHALL PROVIDE PLASTER RING AND PULL STRING FROM EACH DEVICE LOCATION TO ABOVE ACCESSIBLE CEILING.</p> <p>40. FIRE ALARM SYSTEM</p> <p>a. FIRE ALARM SYSTEM TO BE DESIGN-BUILD BY CONTRACTOR. CONTRACTOR SHALL PROVIDE ALL REQUIRED DRAWINGS AND SUBMIT TO AUTHORITIES. REFER TO ARCHITECT'S CODE SHEET FOR RELEVANT DESIGN CRITERIA. SUBMIT DRAWINGS TO OWNER/ARCHITECT FOR REVIEW PRIOR TO SUBMITTING TO AUTHORITIES. PROVIDE REQUIRED ITEMS INCLUDING BUT NOT LIMITED TO RELAY MODULES, MONITOR MODULES, RETURN-AIR DETECTORS, ELEVATOR RECALL, ETC. PROVIDE REMOTE ANNUNCIATOR PANEL(S) AT LOCATION(S) APPROVED BY ARCHITECT AND AUTHORITIES.</p>												
										DD Set	11.03.2023	
										No.	Issuances / Revisions / Submissions	Data
										 <p>PR-10535 Shared Success Through Collaboration and Efficiency 515 Monmouth Street, Suite 201 Newport, KY 41071 (859) 261-0585 MEP Consulting Services, Inc. in OH Copyright © 2015</p> <p>THIS DOCUMENT IS THE PRODUCT AND EXCLUSIVE PROPERTY OF ENGINEERED BUILDING SYSTEMS, INC. NEITHER THIS DOCUMENT NOR THE INFORMATION IT CONTAINS MAY BE USED FOR OTHER THAN THE SPECIFIC PURPOSE FOR WHICH IT WAS PREPARED WITHOUT WRITTEN CONSENT OF ENGINEERED BUILDING SYSTEMS, INC.</p>		
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FIRE PROTECTION GENERAL NOTES

INSTALL SPRINKLER SYSTEMS ON FIRST FLOOR PER NFPA 13. INSTALL SPRINKLER SYSTEMS ON FLOORS 2-5 PER NFPA 13R. PROTECT CONCEALED SPACES AS REQUIRED.
COORDINATE WITH ARCHITECT'S CODE ANALYSIS. CONTACT ARCHITECT IF ANY DISCREPANCIES.
REFERENCE ARCHITECTURAL PLANS FOR CEILING HEIGHTS AND MATERIALS.
DELEGATED FIRE SUPPRESSION DESIGN
DESIGN OF THE FIRE SUPPRESSION SYSTEM IS DELEGATED TO THE INSTALLING CONTRACTOR. RESPONSIBILITY FOR PROVIDING A COMPLIANT, OPERATIONAL FIRE SUPPRESSION SYSTEM LIES WITH THE INSTALLING SPRINKLER CONTRACTOR. REFER TO ARCHITECT'S CODE SHEET WHEN DETERMINING THE APPROPRIATE FIRE SUPPRESSION DESIGN. VERIFY REQUIREMENTS SPECIFIC TO THE PROJECT LOCALE, THE AUTHORITY HAVING JURISDICTION, AND INCLUDE IN SCOPE.
THESE DRAWINGS SHOW THE INTENDED FIRE SUPPRESSION SCOPE. THE INSTALLING CONTRACTOR SHALL FURNISH ALL REQUIRED DRAWINGS AND HYDRAULIC CALCULATIONS REQUIRED TO OBTAIN THE PERMIT. THE DRAWINGS AND CALCULATIONS SHALL BE PREPARED BY A LICENSED PROFESSIONAL ENGINEER OR AN INDIVIDUAL CARRYING ALL CERTIFICATIONS REQUIRED BY THE AGENCY RESPONSIBLE FOR REVIEW AND APPROVAL. DRAWINGS SHALL BE SUBMITTED TO THE ARCHITECT / OWNER FOR REVIEW PRIOR TO SUBMITTING FOR PERMIT.
REQUIRED COMPONENTS THAT ARE NOT SHOWN ON THESE DRAWINGS ARE THE RESPONSIBILITY OF THIS CONTRACTOR AND ARE INCLUDED IN THIS SCOPE OF WORK.

FIRE PROTECTION LEGEND

SYMBOL	DESCRIPTION
— F —	FIRE SERVICE / SPRINKLER PIPING
○ ^N	EXPOSED SPRINKLER IN AREA WITH NO CEILING (BRASS FINISH)
● ^N	SPRINKLER IN FINISHED CEILING (CONCEALED WITH COVER PLATE)
○ ^D	DRY CONCEALED SIDEWALL SPRINKLER
○	STANDPIPE WITH 2-1/2" HOSE VALVE CONNECTION



FP100 FIRE PROTECTION FIRST FLOOR PLAN
1/8"=1'-0"

No.	Issuances / Revisions / Submissions	Date
00	Set	11.03.2023

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Drawing Title
FIRE PROTECTION FIRST FLOOR PLAN
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