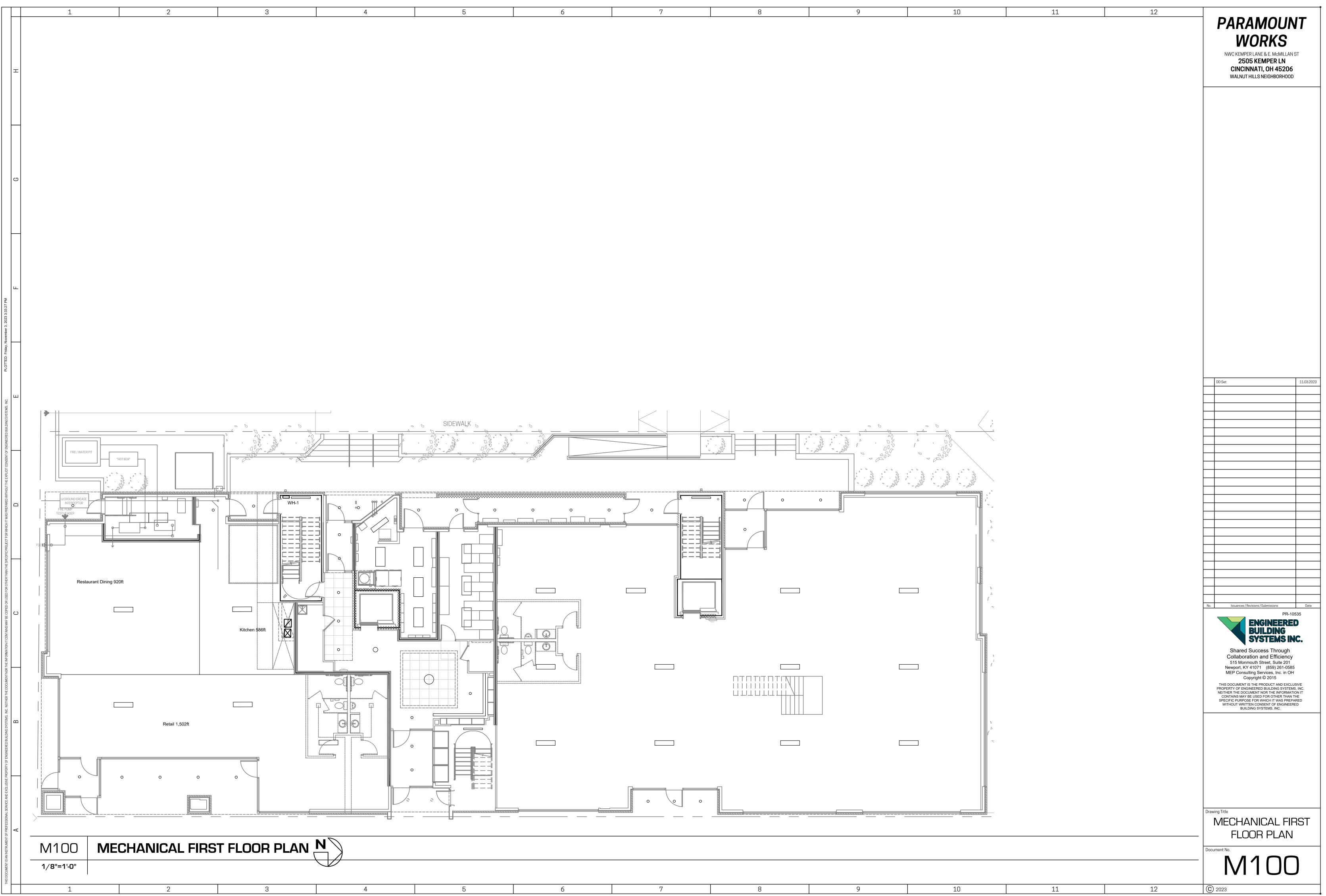
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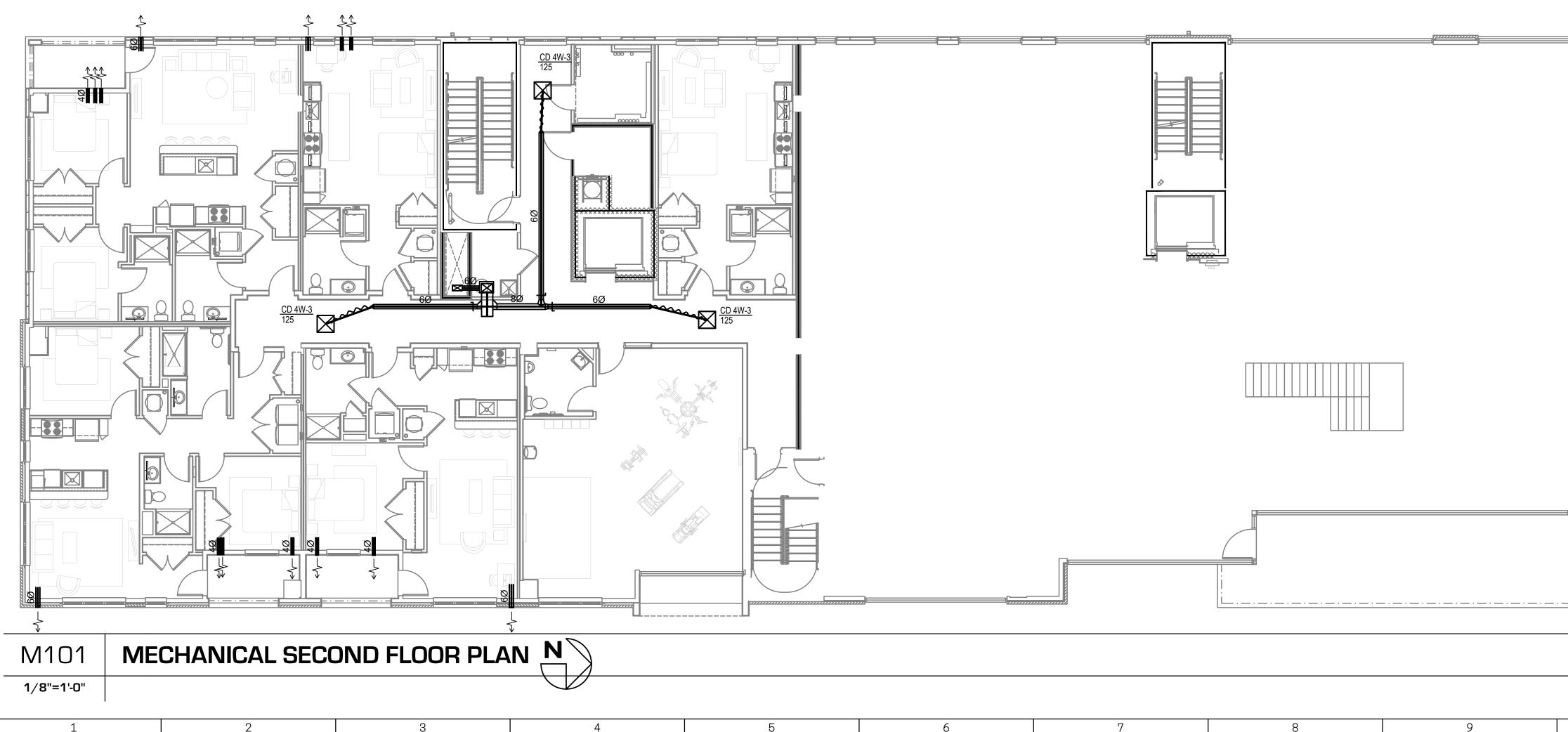
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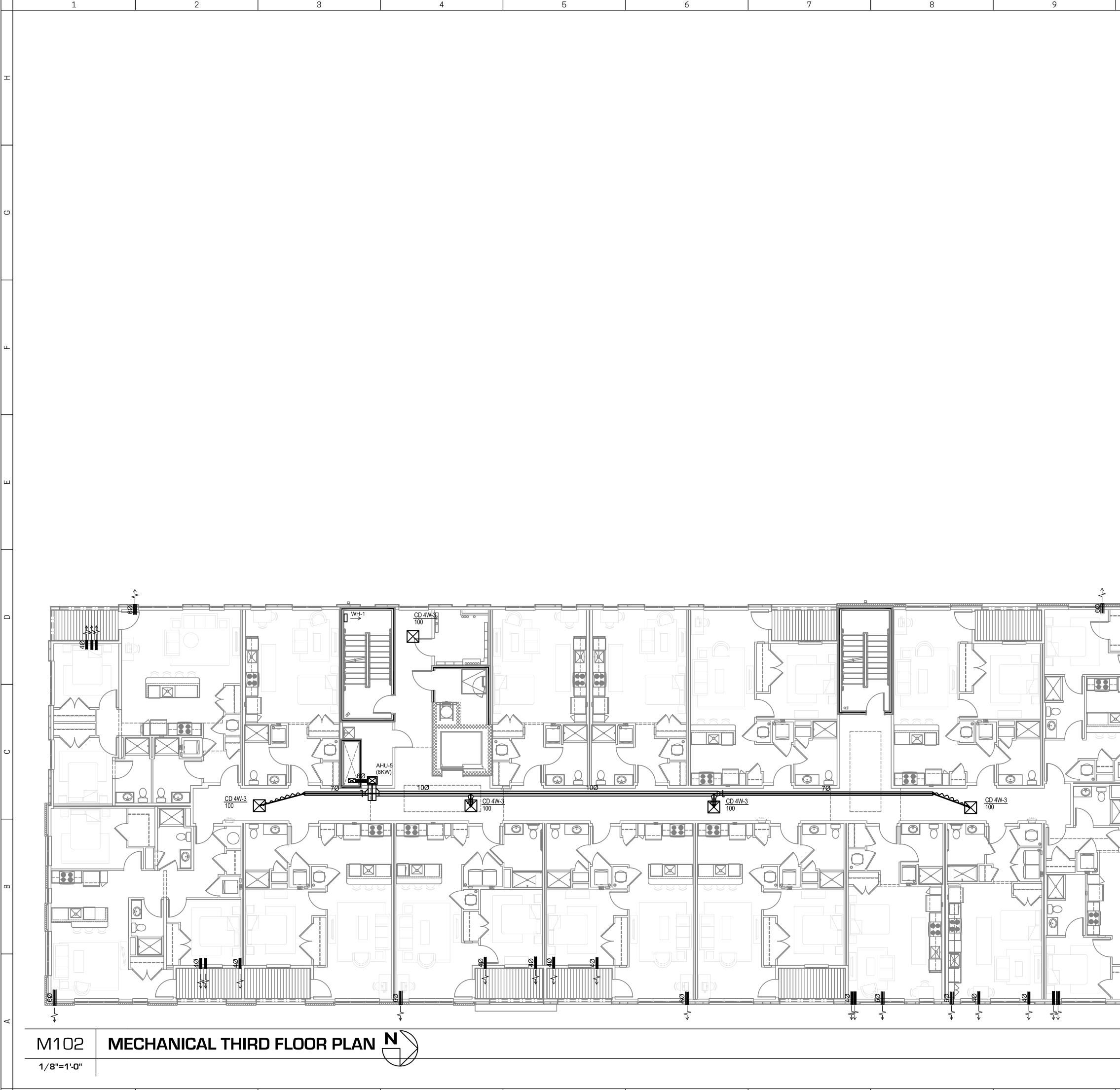
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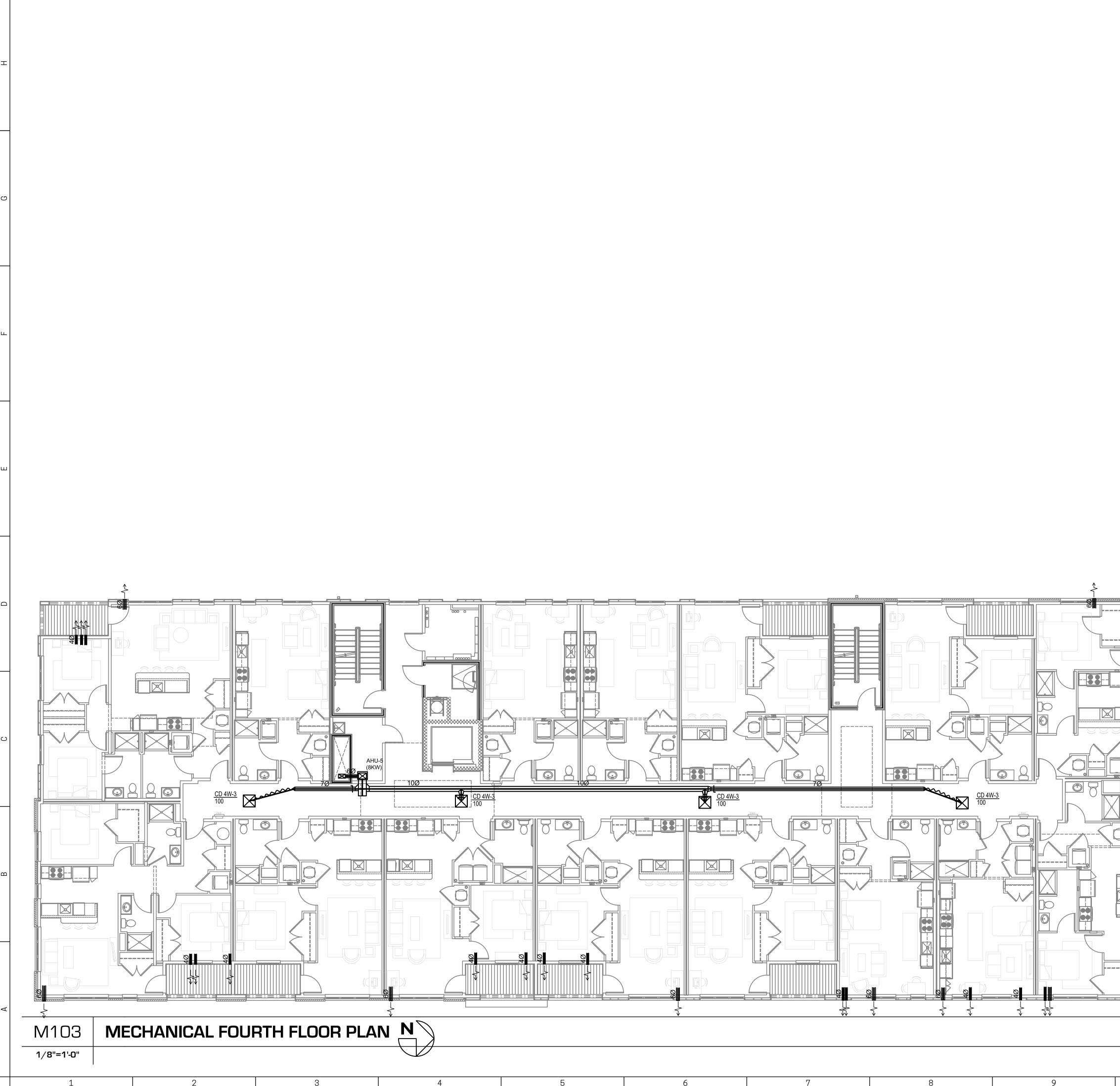
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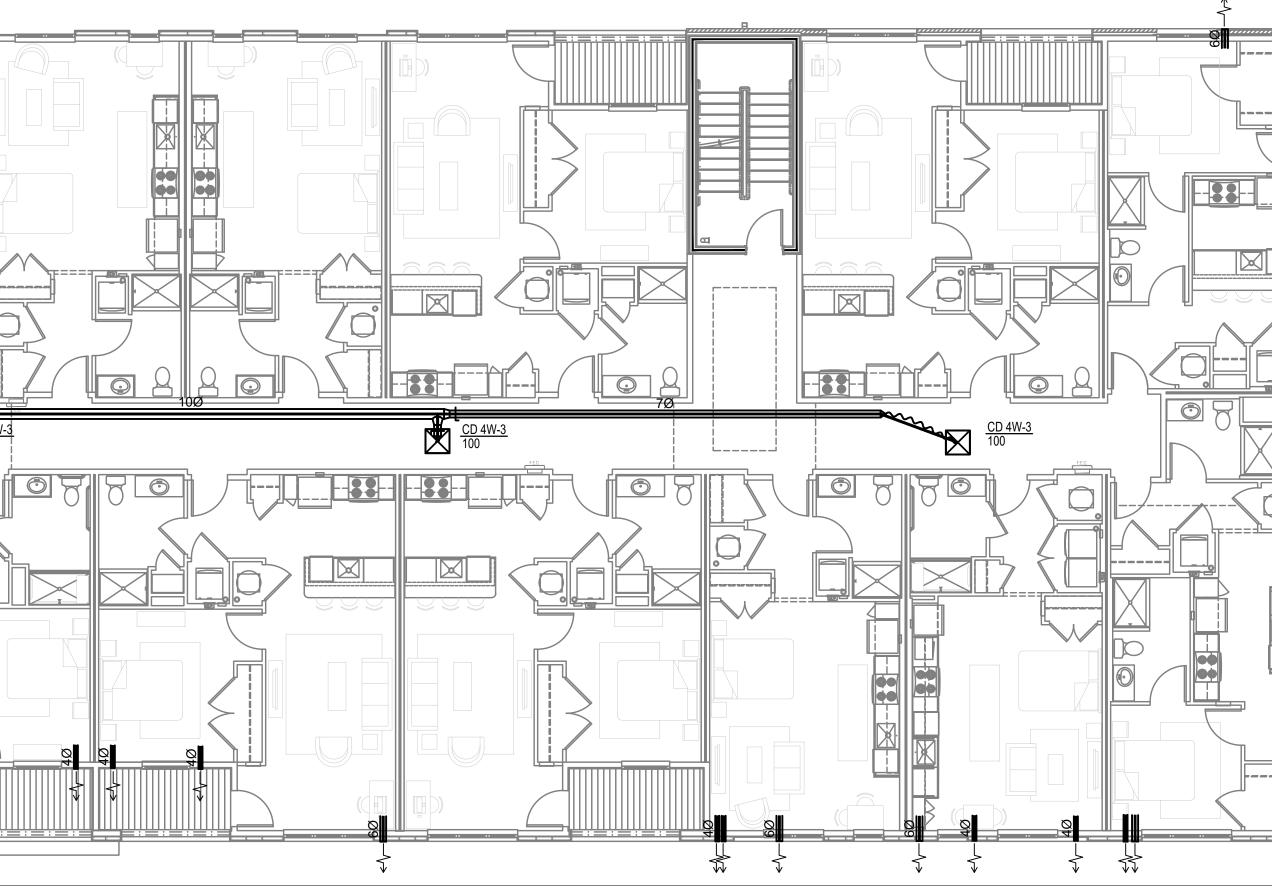
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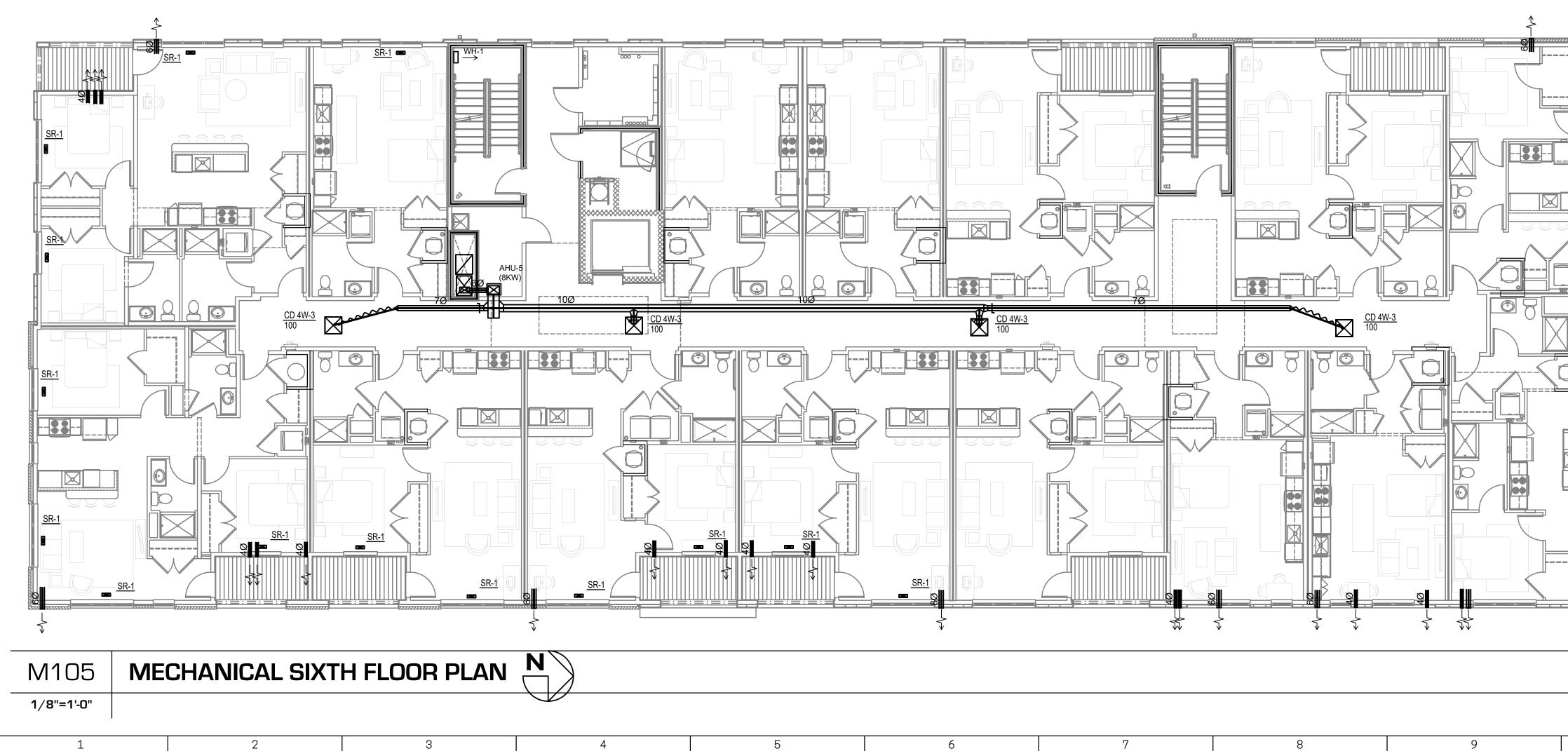
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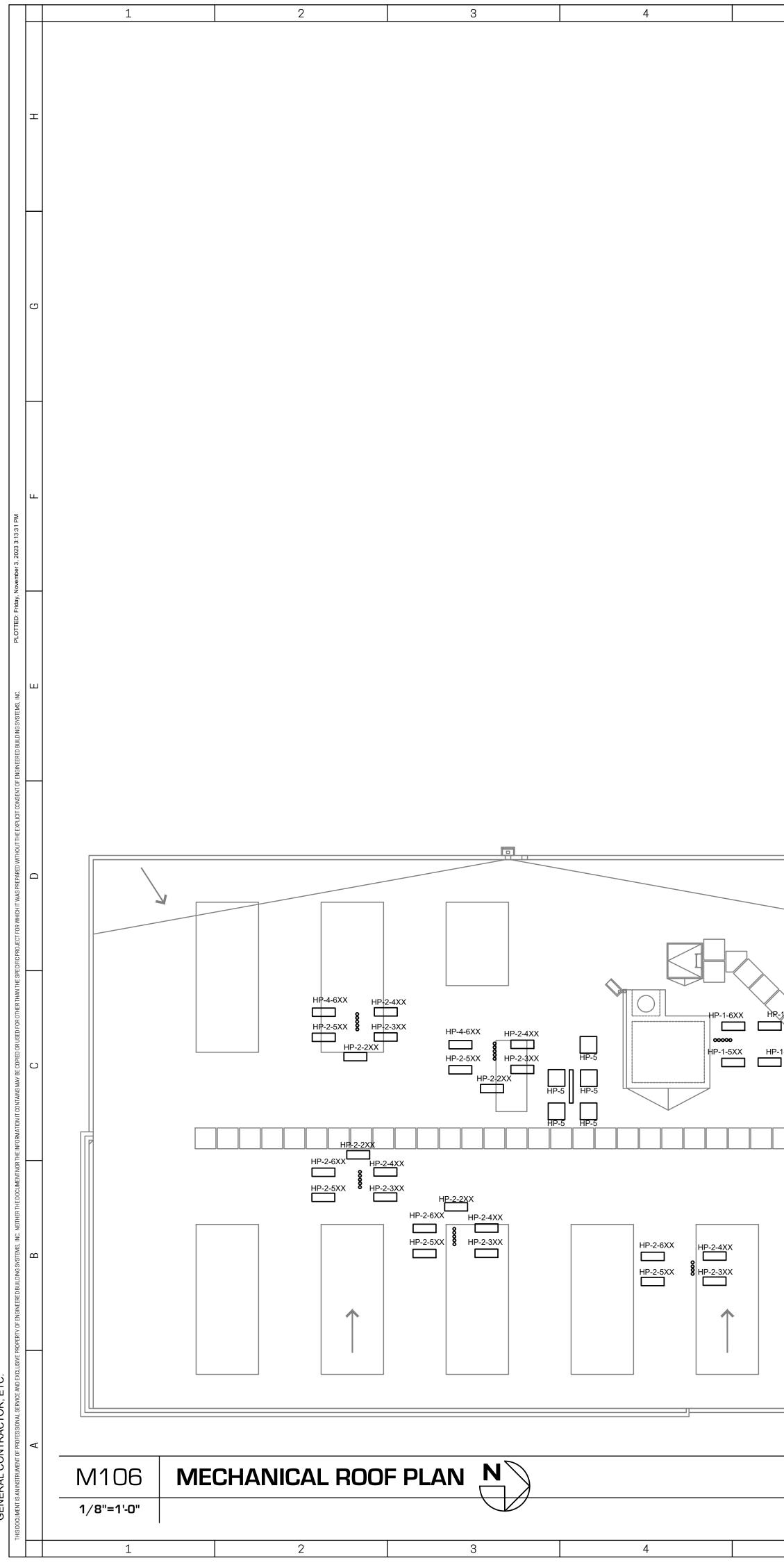


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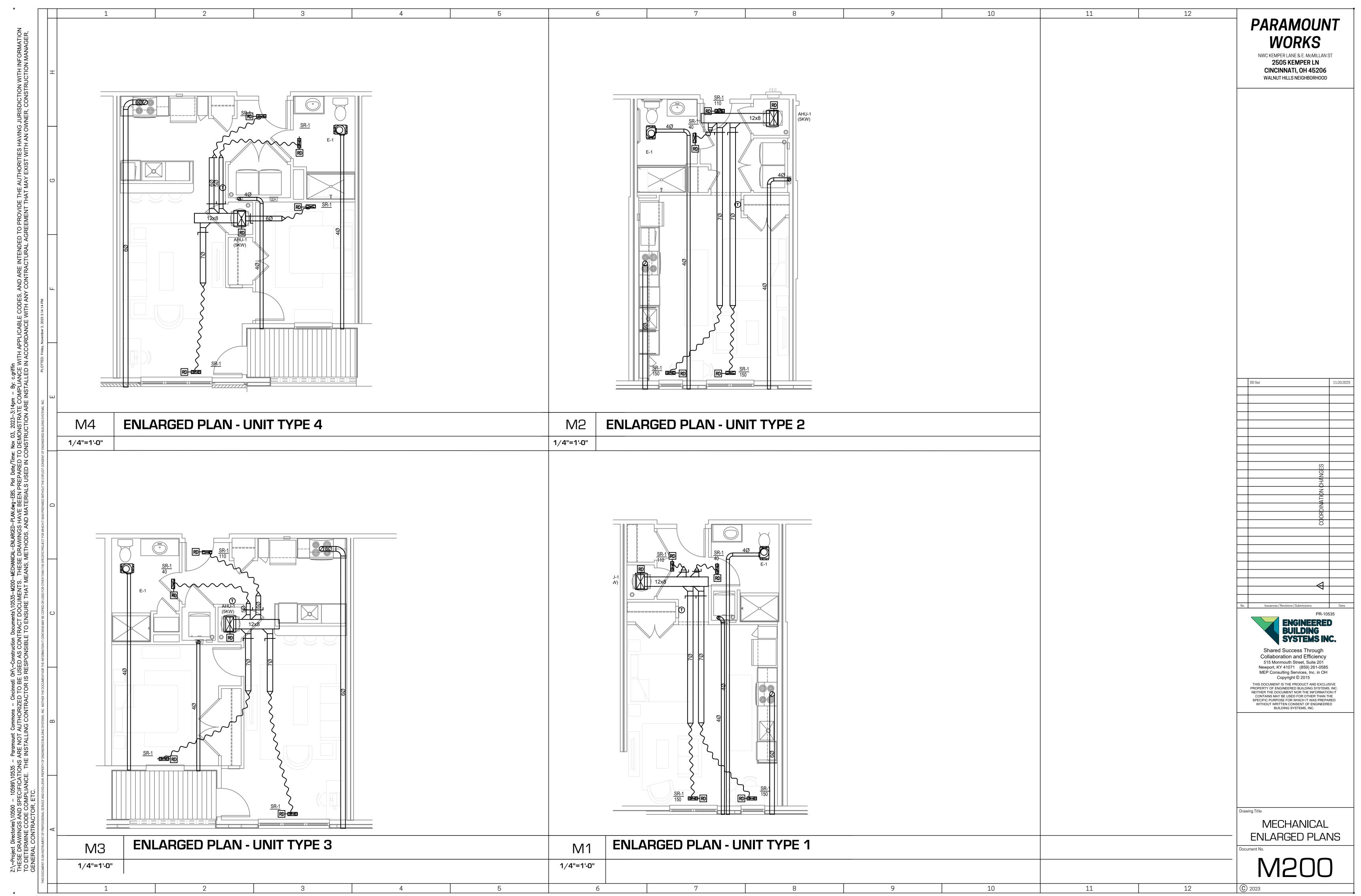
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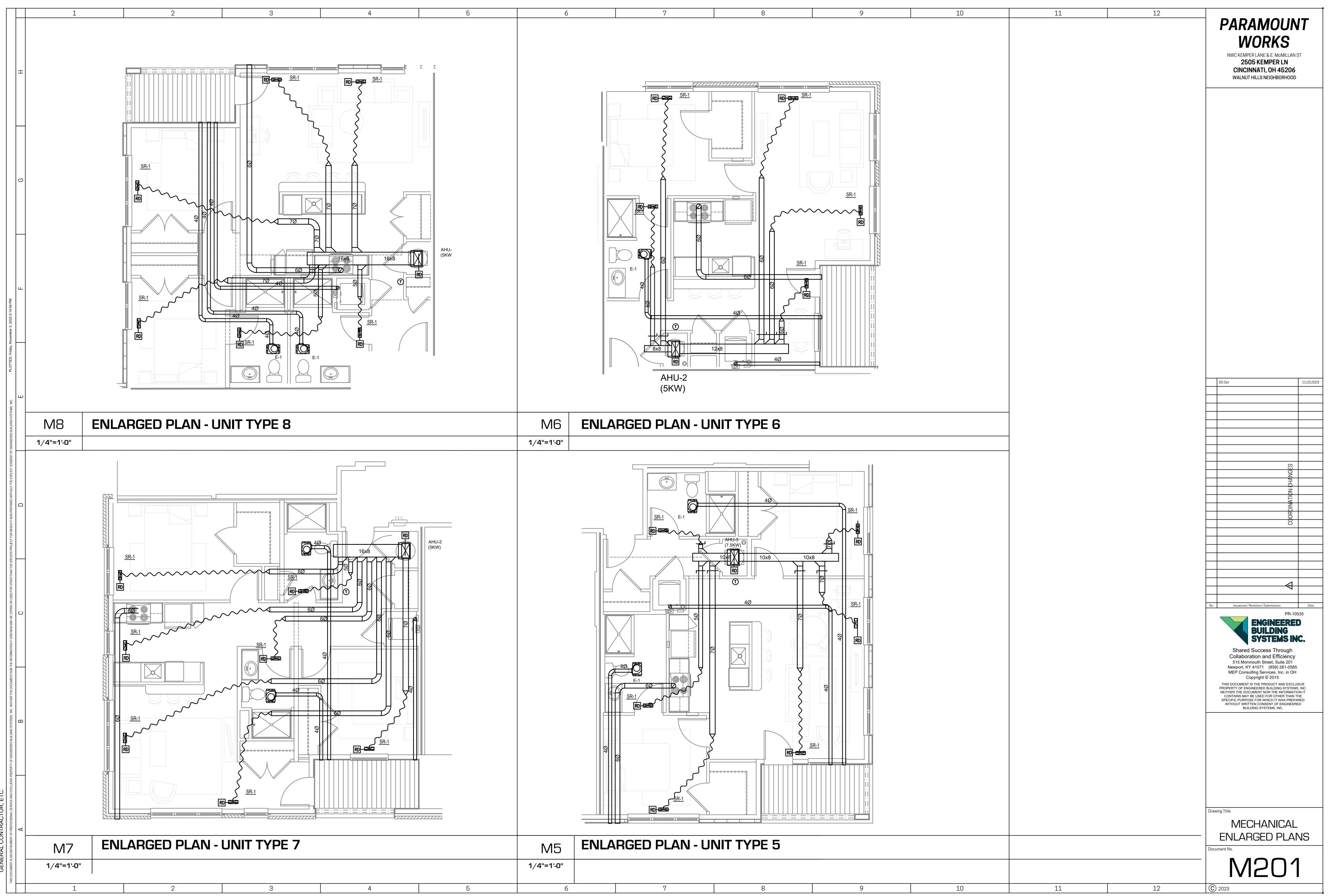


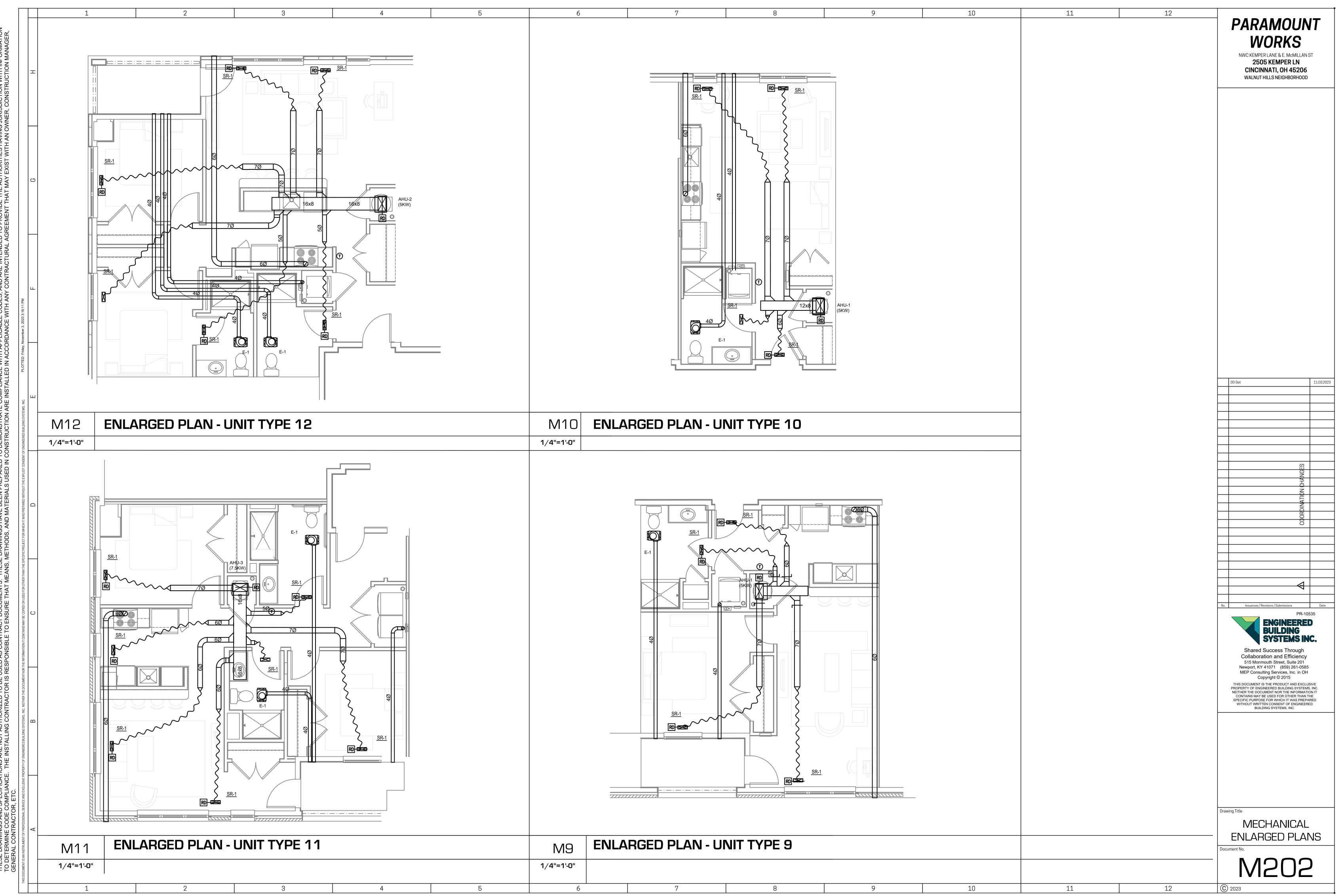
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			2. PROVIDE SURFACE MOUNT FOR CMU WALL	

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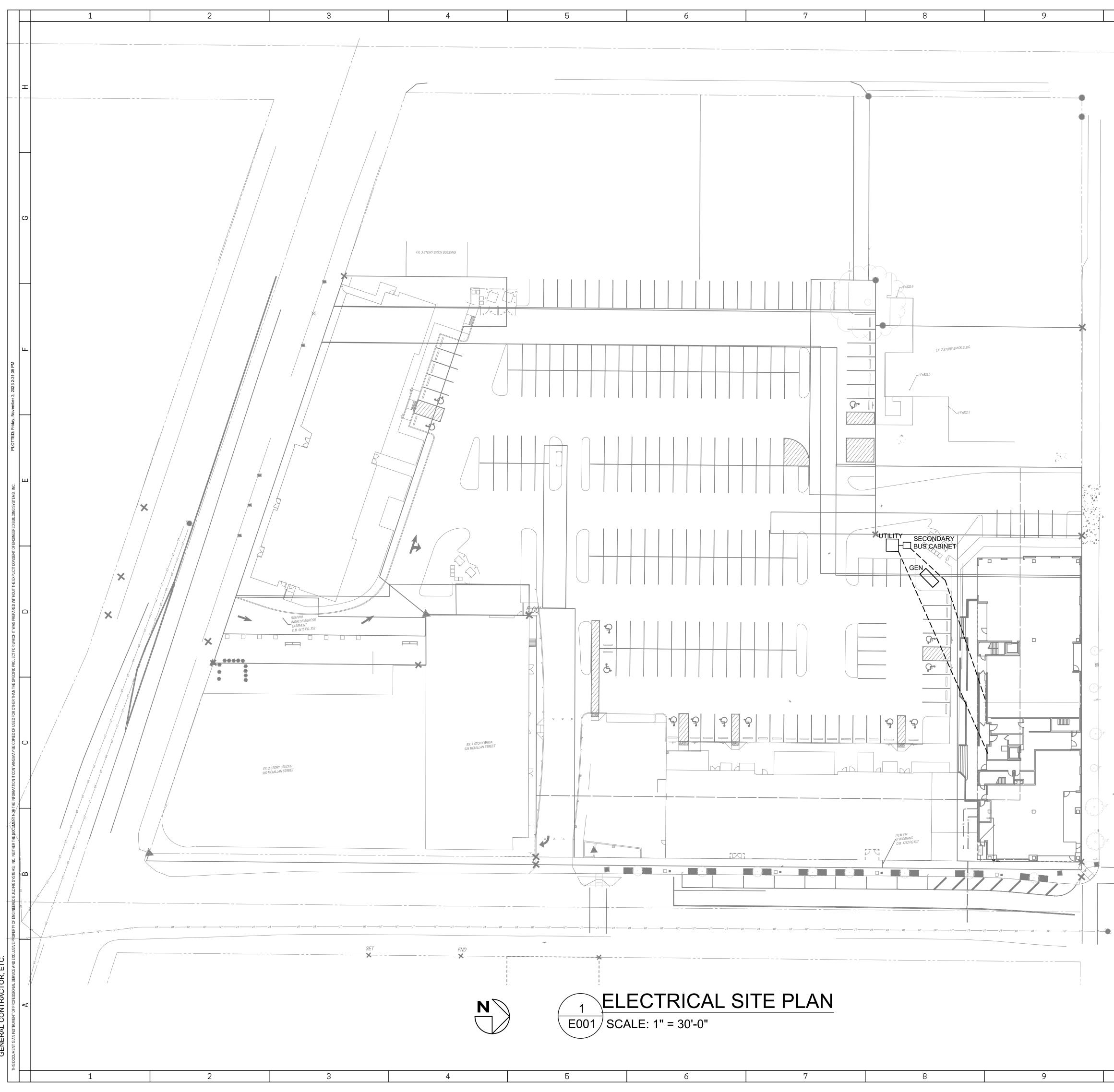
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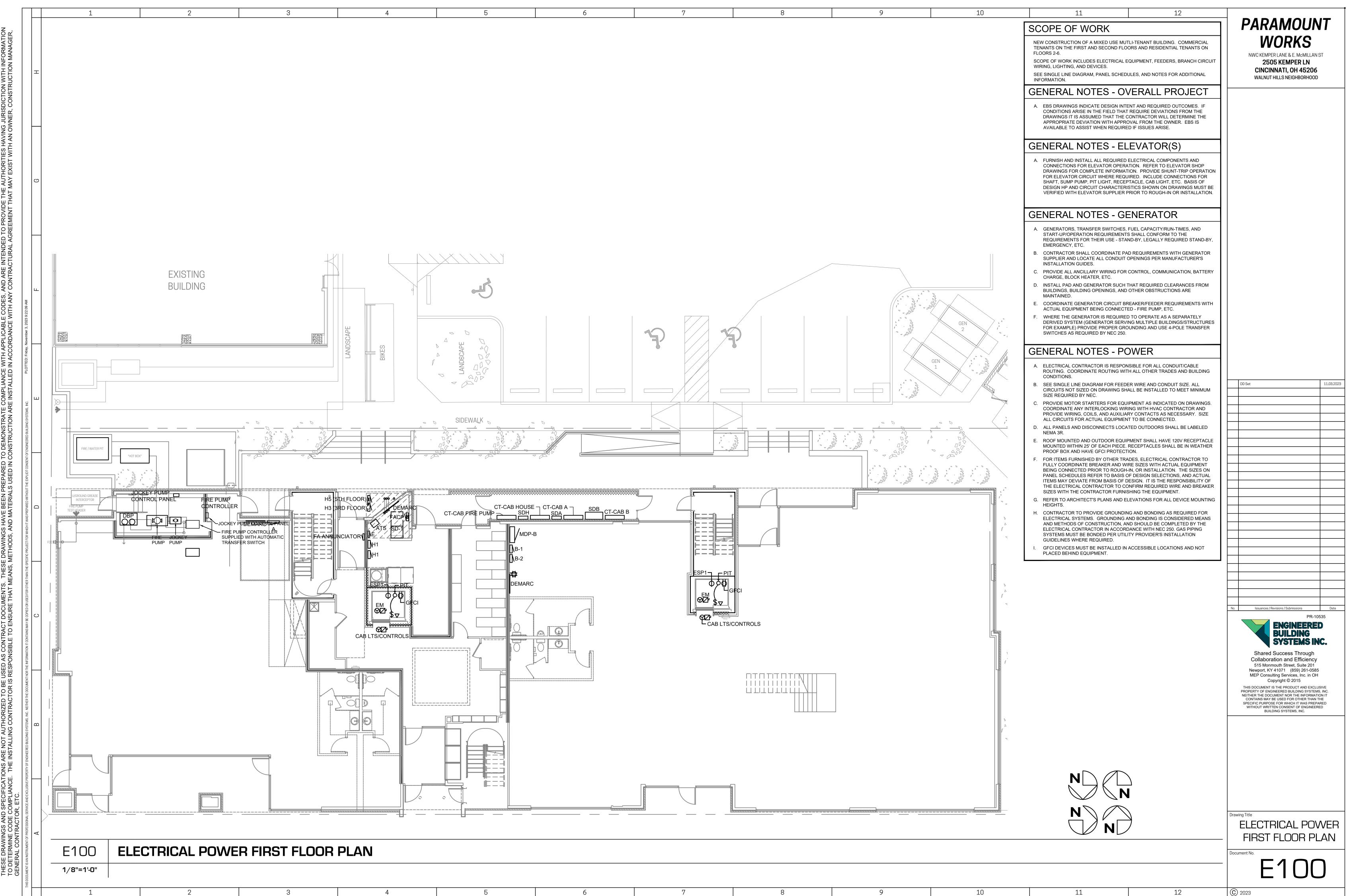
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			2505 KEMPER LN CINCINNATI, OH 45206 WALNUT HILLS NEIGHBORHOO	
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			Shared Success Through Collaboration and Efficiency 515 Monmouth Street, Suite 201	/
			Newport, KY 41071 (859) 261-058 MEP Consulting Services, Inc. in O Copyright © 2015 THIS DOCUMENT IS THE PRODUCT AND EXC PROPERTY OF ENGINEERED BUILDING SYSTE NEITHER THE DOCUMENT NOR THE INFORMA CONTAINS MAY BE USED FOR OTHER THAN	H LUSIVE MS, INC. TION IT
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,	SCOPE OF WORK		PARAMOUN	
	NEW CONSTRUCTION OF A MIXED USE MUT		WORKS	
₽> 	TENANTS ON THE FIRST AND SECOND FLOO FLOORS 2-6.		NWC KEMPER LANE & E. McMILLAN S	ST
	SCOPE OF WORK INCLUDES ELECTRICAL EC WIRING, LIGHTING, AND DEVICES.	QUIPMENT, FEEDERS, BRANCH CIRCUIT	2505 KEMPER LN CINCINNATI, OH 45206	
	SEE SINGLE LINE DIAGRAM, PANEL SCHEDU	JLES, AND NOTES FOR ADDITIONAL	WALNUT HILLS NEIGHBORHOOD	
	GENERAL NOTES - OV	/ERALL PROJECT		
	A. EBS DRAWINGS INDICATE DESIGN INTE			
	CONDITIONS ARISE IN THE FIELD THAT DRAWINGS IT IS ASSUMED THAT THE C	ONTRACTOR WILL DETERMINE THE		
	APPROPRIATE DEVIATION WITH APPRO AVAILABLE TO ASSIST WHEN REQUIREI			
	GENERAL NOTES - SI	TE		
	A. ALL EQUIPMENT LOCATED OUTDOORS			
	B. PERFORM ALL EXCAVATION, TRENCHIN	NG AND BACKFILL REQUIRED FOR THE		
	GRADE AND MATCH SURROUNDING CO	CKFILL SHALL BE BROUGHT TO FINISHED ONDITIONS. RESTORE ALL DISTURBED AL CONDITIONS. PULL BOXES SHALL BE		
	PROVIDE OF A TYPE MEETING THE RECUSE INTENDED.			
	C. ELECTRICAL CONTRACTOR SHALL COC GENERAL CONTRACTOR AND OTHER B			
	D. SEE SINGLE LINE DIAGRAM FOR FEEDE UNDERGROUND FEEDERS IN PVC SHAL	ER WIRE AND CONDUIT SIZE. ALL LL HAVE AN EQUIPMENT GROUND WIRE		
EX. 1 STORY BRICK	SIZED PER NEC 250. E. COORDINATE ALL UNDERGROUND UTIL			
EX.1 STORT DRUG	LIMITED TO THE FOLLOWING: EC RESP PRIMARY/SECONDARY UG CONDUITS IN	PONSIBLE FOR ALL		
	PAD OR NEW POLE-MOUNT TRANSFORI CONFIRM ALL UTILITY WORK WITH OWN	MER LOCATION, (WHEN REQUIRED). NER, ARCH, GC, UTILITY		
	REPRESENTATIVE, ETC PRIOR TO CON F. AS-BUILT DRAWINGS SHALL INCLUDE A			
	ROUTING OF ALL CIRCUITRY AND LOCA AND PULL BOXES,ETC.	ATIONS OF ALL TRANSFORMERS, ETC.		
	G. PROVIDE APPROPRIATE POWER AND G GROUND PIPING HEAT TRACE. COORD			
	CONTRACGTOR FURNISHING HEAT TRA	ACE.		
			DD Set	11.03.2023
EX. 4 STORY STONE	& BRIC			
			No. Issuances / Revisions / Submissions PR-105	Date 535
			ENGINEERED)
			BUILDING SYSTEMS IN	C.
			Shared Success Through	
			Collaboration and Efficiency 515 Monmouth Street, Suite 201	
			Newport, KY 41071 (859) 261-0585 MEP Consulting Services, Inc. in OH	
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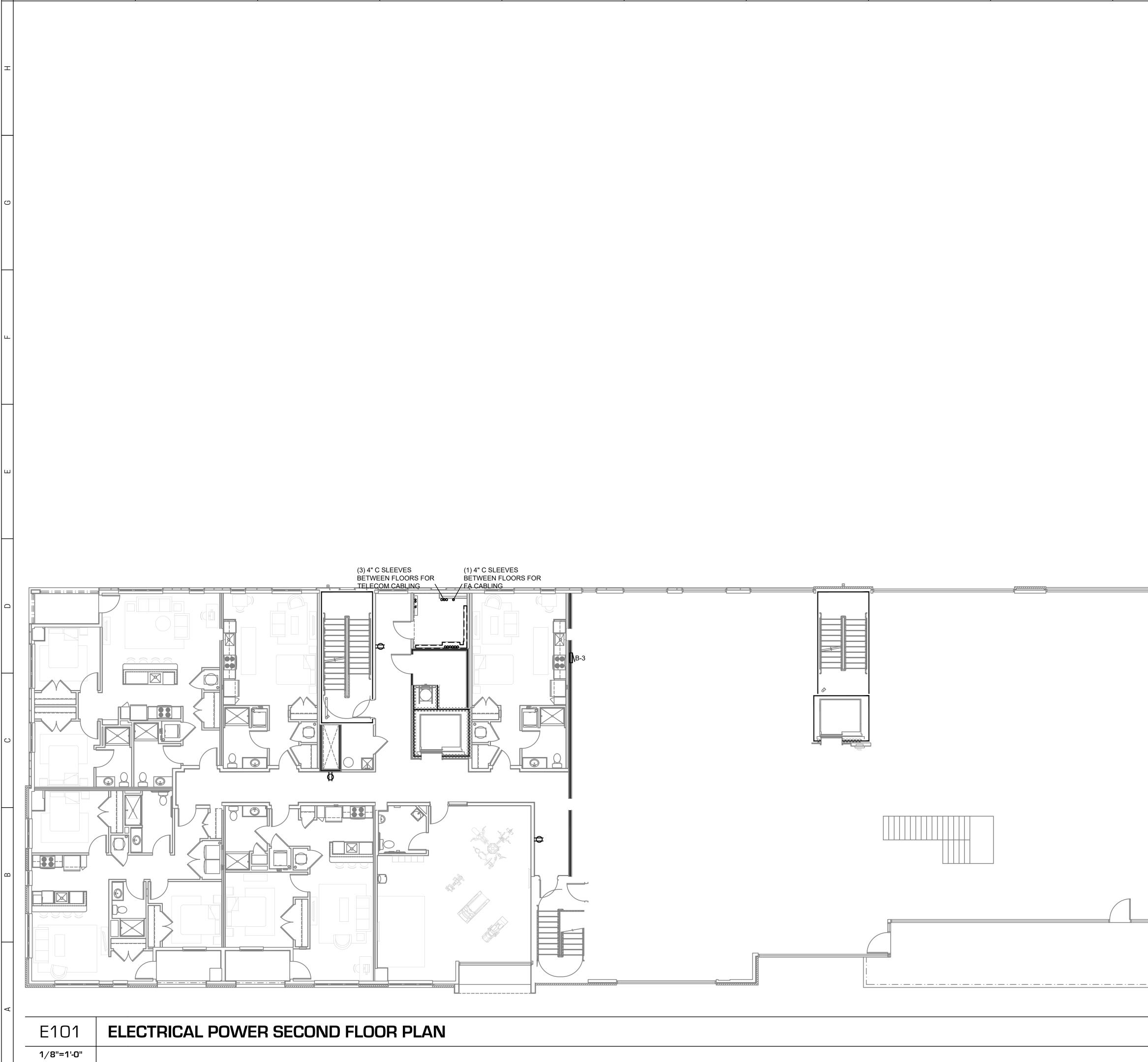
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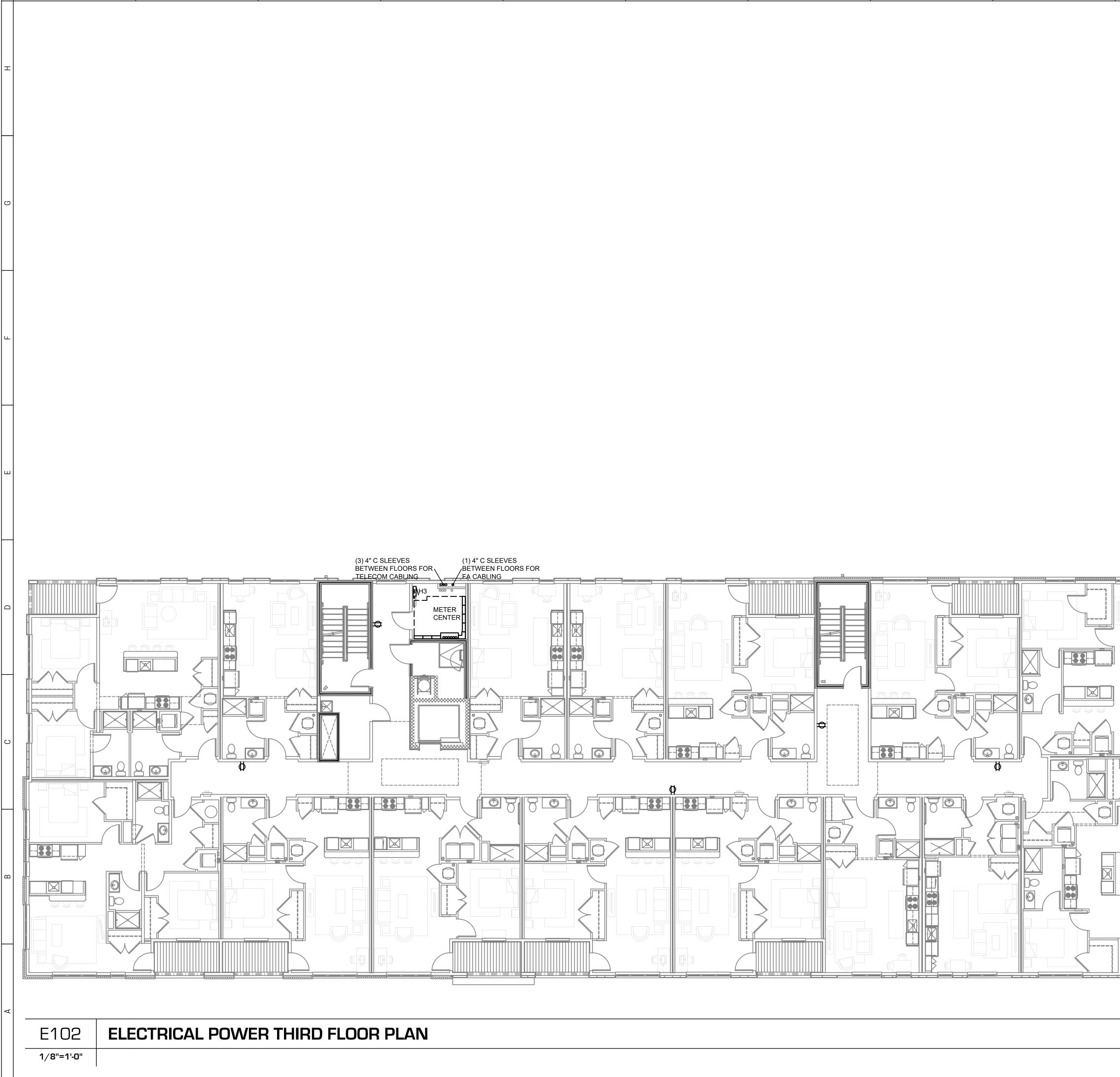
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	SCOPE OF WORK		PARAMOUNT	
		LI-TENANT BUILDING, COMMERCIAL	WORKS	
	TENANTS ON THE FIRST AND SECOND FLOO FLOORS 2-6.		NWC KEMPER LANE & E. McMILLAN ST	
	SCOPE OF WORK INCLUDES ELECTRICAL EN WIRING, LIGHTING, AND DEVICES.	QUIPMENT, FEEDERS, BRANCH CIRCUIT	2505 KEMPER LN CINCINNATI, OH 45206	
	SEE SINGLE LINE DIAGRAM, PANEL SCHEDU INFORMATION.	ILES, AND NOTES FOR ADDITIONAL	WALNUT HILLS NEIGHBORHOOD	
	GENERAL NOTES - OV	/ERALL PROJECT		
	A. EBS DRAWINGS INDICATE DESIGN INTE			
	CONDITIONS ARISE IN THE FIELD THAT DRAWINGS IT IS ASSUMED THAT THE C APPROPRIATE DEVIATION WITH APPRC	ONTRACTOR WILL DETERMINE THE		
	AVAILABLE TO ASSIST WHEN REQUIRE			
	GENERAL NOTES - EL	EVATOR(S)		
	A. FURNISH AND INSTALL ALL REQUIRED I			
	CONNECTIONS FOR ELEVATOR OPERA DRAWINGS FOR COMPLETE INFORMAT FOR ELEVATOR CIRCUIT WHERE REQU	ON. PROVIDE SHUNT-TRIP OPERATION		
	SHAFT, SUMP PUMP, PIT LIGHT, RECEP DESIGN HP AND CIRCUIT CHARACTERIS	TACLE, CAB LIGHT, ETC. BASIS OF		
	VERIFIED WITH ELEVATOR SUPPLIER P	RIOR TO ROUGH-IN OR INSTALLATION.		
	GENERAL NOTES - GE	NERATOR		
	A. GENERATORS, TRANSFER SWITCHES, I			
	START-UP/OPERATION REQUIREMENTS REQUIREMENTS FOR THEIR USE - STAN			
	EMERGENCY, ETC. B. CONTRACTOR SHALL COORDINATE PAI			
	SUPPLIER AND LOCATE ALL CONDUIT C			
	C. PROVIDE ALL ANCILLARY WIRING FOR (CHARGE, BLOCK HEATER, ETC.			
	D. INSTALL PAD AND GENERATOR SUCH T BUILDINGS, BUILDING OPENINGS, AND MAINTAINED.			
	E. COORDINATE GENERATOR CIRCUIT BR			
	ACTUAL EQUIPMENT BEING CONNECTE F. WHERE THE GENERATOR IS REQUIRED	TO OPERATE AS A SEPARATELY		
	DERIVED SYSTEM (GENERATOR SERVII FOR EXAMPLE) PROVIDE PROPER GRO SWITCHES AS REQUIRED BY NEC 250.			
	SWITCHES AS REQUIRED BY NEC 250.			
	GENERAL NOTES - PC	WER		
	A. ELECTRICAL CONTRACTOR IS RESPON ROUTING. COORDINATE ROUTING WIT			
	CONDITIONS. B. SEE SINGLE LINE DIAGRAM FOR FEEDE		DD Set 11.03.2	2023
	CIRCUITS NOT SIZED ON DRAWING SHA			
	C. PROVIDE MOTOR STARTERS FOR EQUI COORDINATE ANY INTERLOCKING WIRI	NG WITH HVAC CONTRACTOR AND		
	PROVIDE WIRING, COILS, AND AUXILIAF ALL CIRCUITS FOR ACTUAL EQUIPMEN			
	 ALL PANELS AND DISCONNECTS LOCA NEMA 3R. 	TED OUTDOORS SHALL BE LABELED		
	E. ROOF MOUNTED AND OUTDOOR EQUIP MOUNTED WITHIN 25' OF EACH PIECE. I	RECEPTACLES SHALL BE IN WEATHER		
	PROOF BOX AND HAVE GFCI PROTECTI F. FOR ITEMS FURNISHED BY OTHER TRA	DES, ELECTRICAL CONTRACTOR TO		
	FULLY COORDINATE BREAKER AND WI BEING CONNECTED PRIOR TO ROUGH- PANEL SCHEDULES REFER TO BASIS O	N, OR INSTALLATION. THE SIZES ON		
	ITEMS MAY DEVIATE FROM BASIS OF D THE ELECTRICAL CONTRACTOR TO CO	ESIGN. IT IS THE RESPONSIBILITY OF		
	SIZES WITH THE CONTRACTOR FURNIS G. REFER TO ARCHITECT'S PLANS AND EL			
	HEIGHTS. H. CONTRACTOR TO PROVIDE GROUNDIN	G AND BONDING AS REQUIRED FOR		
	ELECTRICAL SYSTEMS. GROUNDING A AND METHODS OF CONSTRUCTION, AN	ND BONDING IS CONSIDERED MEANS D SHOULD BE COMPLETED BY THE		
	ELECTRICAL CONTRACTOR IN ACCORD SYSTEMS MUST BE BONDED PER UTILI GUIDELINES WHERE REQUIRED.			
	I. GFCI DEVICES MUST BE INSTALLED IN A PLACED BEHIND EQUIPMENT.	ACCESSIBLE LOCATIONS AND NOT		
			No. Issuances / Revisions / Submissions Dat PR-10535	e
			ENGINEERED BUILDING	
			SYSTEMS INC.	
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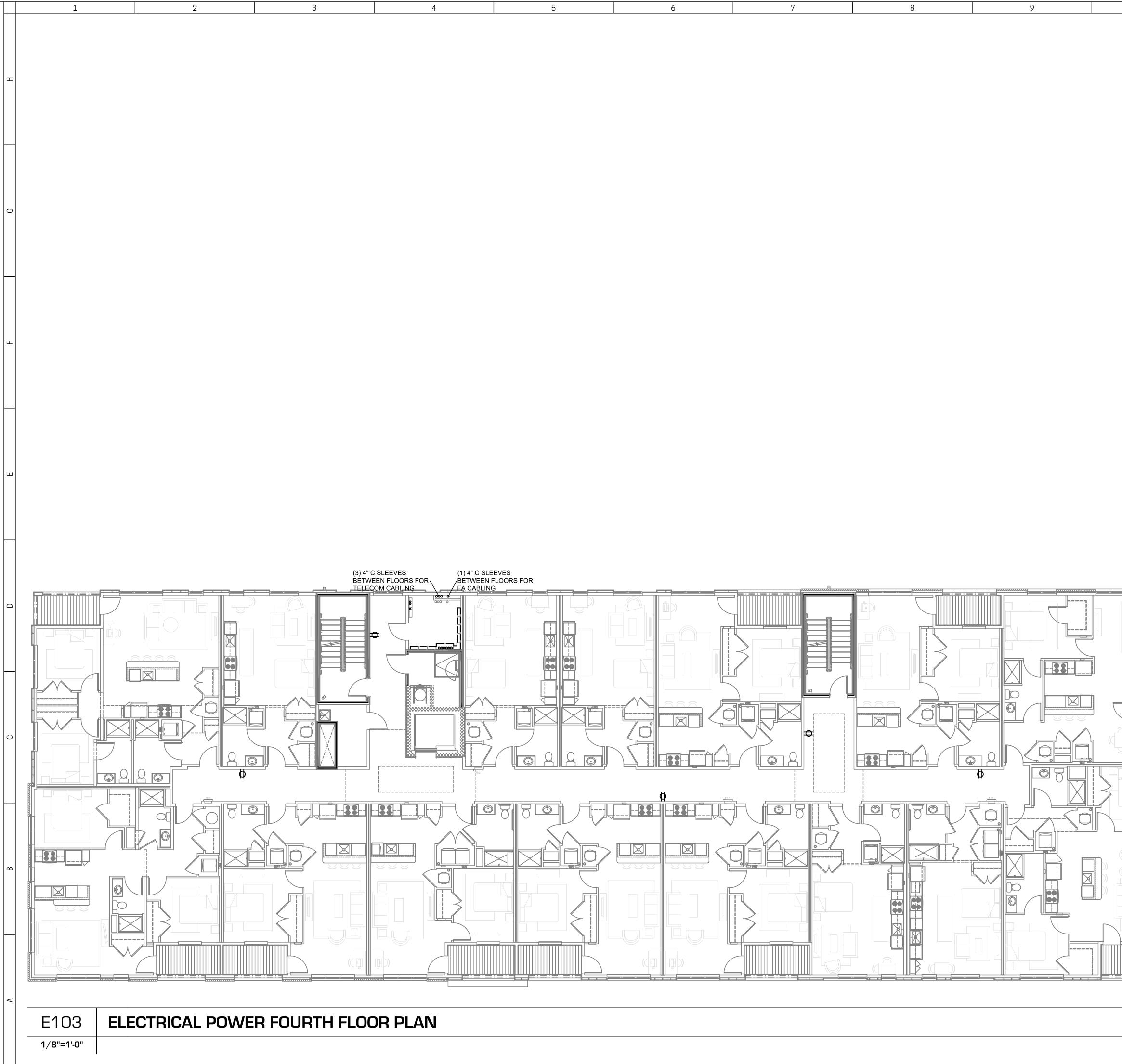


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		SCOPE OF WORK		PARAMOUNT
		NEW CONSTRUCTION OF A MIXED USE MUTLI-TE TENANTS ON THE FIRST AND SECOND FLOORS		WORKS
		FLOORS 2-6. SCOPE OF WORK INCLUDES ELECTRICAL EQUIP		NWC KEMPER LANE & E. McMILLAN ST
		WIRING, LIGHTING, AND DEVICES. SEE SINGLE LINE DIAGRAM, PANEL SCHEDULES INFORMATION.		2505 KEMPER LN CINCINNATI, OH 45206 WALNUT HILLS NEIGHBORHOOD
		GENERAL NOTES - OVE	RALL PROJECT	
		A. EBS DRAWINGS INDICATE DESIGN INTENT A CONDITIONS ARISE IN THE FIELD THAT REQ DRAWINGS IT IS ASSUMED THAT THE CONT APPROPRIATE DEVIATION WITH APPROVAL AVAILABLE TO ASSIST WHEN REQUIRED IF I	UIRE DEVIATIONS FROM THE RACTOR WILL DETERMINE THE FROM THE OWNER. EBS IS	
		GENERAL NOTES - ELE	/ATOR(S)	
		A. FURNISH AND INSTALL ALL REQUIRED ELEC CONNECTIONS FOR ELEVATOR OPERATION DRAWINGS FOR COMPLETE INFORMATION. FOR ELEVATOR CIRCUIT WHERE REQUIRED SHAFT, SUMP PUMP, PIT LIGHT, RECEPTACI DESIGN HP AND CIRCUIT CHARACTERISTICS VERIFIED WITH ELEVATOR SUPPLIER PRIOF	I. REFER TO ELEVATOR SHOP PROVIDE SHUNT-TRIP OPERATION D. INCLUDE CONNECTIONS FOR LE, CAB LIGHT, ETC. BASIS OF S SHOWN ON DRAWINGS MUST BE	
		GENERAL NOTES - GEN	ERATOR	
		A. GENERATORS, TRANSFER SWITCHES, FUEL START-UP/OPERATION REQUIREMENTS SHA	ALL CONFORM TO THE	
		REQUIREMENTS FOR THEIR USE - STAND-B' EMERGENCY, ETC. B. CONTRACTOR SHALL COORDINATE PAD RE		
		SUPPLIER AND LOCATE ALL CONDUIT OPEN INSTALLATION GUIDES.		
		C. PROVIDE ALL ANCILLARY WIRING FOR CON CHARGE, BLOCK HEATER, ETC.		
		D. INSTALL PAD AND GENERATOR SUCH THAT BUILDINGS, BUILDING OPENINGS, AND OTHI MAINTAINED.		
		E. COORDINATE GENERATOR CIRCUIT BREAKI ACTUAL EQUIPMENT BEING CONNECTED - F		
		F. WHERE THE GENERATOR IS REQUIRED TO DERIVED SYSTEM (GENERATOR SERVING M	ULTIPLE BUILDINGS/STRUCTURES	
		FOR EXAMPLE) PROVIDE PROPER GROUND SWITCHES AS REQUIRED BY NEC 250.	ING AND USE 4-POLE TRANSFER	
		GENERAL NOTES - POW	/ER	
		A. ELECTRICAL CONTRACTOR IS RESPONSIBL		
		ROUTING. COORDINATE ROUTING WITH ALL CONDITIONS. B. SEE SINGLE LINE DIAGRAM FOR FEEDER W		DD Set 11.03.2023
		CIRCUITS NOT SIZED ON DRAWING SHALL E SIZE REQUIRED BY NEC.		
		C. PROVIDE MOTOR STARTERS FOR EQUIPME COORDINATE ANY INTERLOCKING WIRING V PROVIDE WIRING, COILS, AND AUXILIARY CO	WITH HVAC CONTRACTOR AND	
		ALL CIRCUITS FOR ACTUAL EQUIPMENT TO D. ALL PANELS AND DISCONNECTS LOCATED	BE CONNECTED.	
		NEMA 3R. E. ROOF MOUNTED AND OUTDOOR EQUIPMEN		
		MOUNTED WITHIN 25' OF EACH PIECE. RECE PROOF BOX AND HAVE GFCI PROTECTION.		
		F. FOR ITEMS FURNISHED BY OTHER TRADES, FULLY COORDINATE BREAKER AND WIRE SI BEING CONNECTED PRIOR TO ROUGH-IN, O	IZES WITH ACTUAL EQUIPMENT	
		PANEL SCHEDULES REFER TO BASIS OF DE ITEMS MAY DEVIATE FROM BASIS OF DESIG THE ELECTRICAL CONTRACTOR TO CONFIR	IT IS THE RESPONSIBILITY OF	
		SIZES WITH THE CONTRACTOR FURNISHING G. REFER TO ARCHITECT'S PLANS AND ELEVA	G THE EQUIPMENT.	
		HEIGHTS. H. CONTRACTOR TO PROVIDE GROUNDING AN		
╘		ELECTRICAL SYSTEMS. GROUNDING AND B AND METHODS OF CONSTRUCTION, AND SH ELECTRICAL CONTRACTOR IN ACCORDANC	HOULD BE COMPLETED BY THE E WITH NEC 250. GAS PIPING	
		SYSTEMS MUST BE BONDED PER UTILITY P GUIDELINES WHERE REQUIRED.		
U		I. GFCI DEVICES MUST BE INSTALLED IN ACCE PLACED BEHIND EQUIPMENT.	ESSIBLE LOCATIONS AND NOT	
				No. Issuances / Revisions / Submissions Date
				ENGINEERED BUILDING
				SYSTEMS INC. Shared Success Through
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		\mathbf{N}		Drawing Title
				ELECTRICAL POWER
				THIRD FLOOR PLAN
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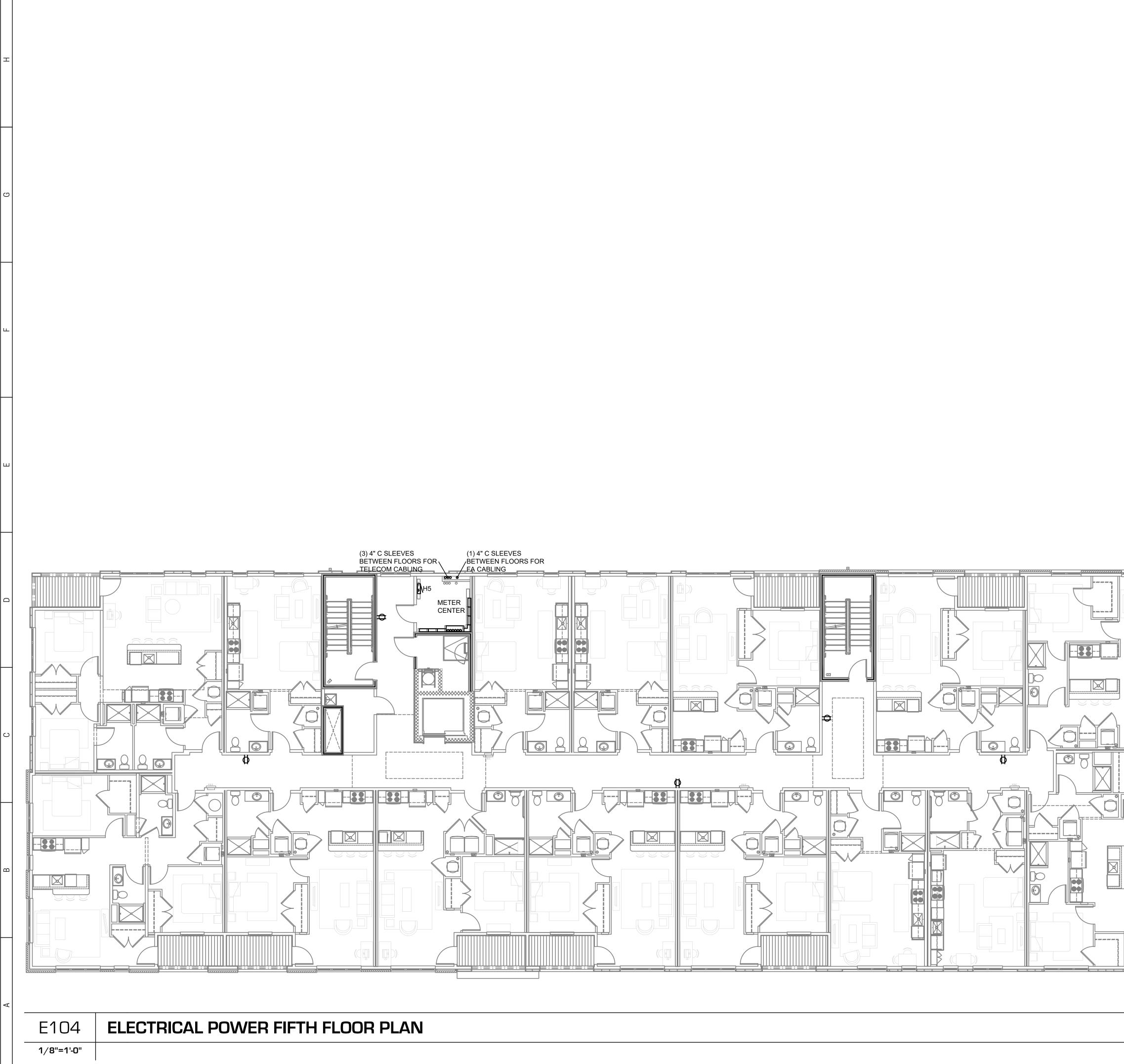
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	SCOPE OF WORK	WORKS
	NEW CONSTRUCTION OF A MIXED USE MUTLI-TENANT BUILDING. COMMERCIAL TENANTS ON THE FIRST AND SECOND FLOORS AND RESIDENTIAL TENANTS ON FLOORS 2-6.	VVORAJ NWC KEMPER LANE & E. McMILLAN ST
	SCOPE OF WORK INCLUDES ELECTRICAL EQUIPMENT, FEEDERS, BRANCH CIRCUIT WIRING, LIGHTING, AND DEVICES. SEE SINGLE LINE DIAGRAM, PANEL SCHEDULES, AND NOTES FOR ADDITIONAL	2505 KEMPER LN CINCINNATI, OH 45206
	INFORMATION. GENERAL NOTES - OVERALL PROJECT	WALNUT HILLS NEIGHBORHOOD
	A. EBS DRAWINGS INDICATE DESIGN INTENT AND REQUIRED OUTCOMES. IF	
	CONDITIONS ARISE IN THE FIELD THAT REQUIRE DEVIATIONS FROM THE DRAWINGS IT IS ASSUMED THAT THE CONTRACTOR WILL DETERMINE THE APPROPRIATE DEVIATION WITH APPROVAL FROM THE OWNER. EBS IS AVAILABLE TO ASSIST WHEN REQUIRED IF ISSUES ARISE.	
	GENERAL NOTES - ELEVATOR(S)	
	A. FURNISH AND INSTALL ALL REQUIRED ELECTRICAL COMPONENTS AND CONNECTIONS FOR ELEVATOR OPERATION. REFER TO ELEVATOR SHOP	
	DRAWINGS FOR COMPLETE INFORMATION. REPER 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.	
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	A. GENERATORS, TRANSFER SWITCHES, FUEL CAPACITY/RUN-TIMES, AND START-UP/OPERATION REQUIREMENTS SHALL CONFORM TO THE	
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	SUPPLIER AND LOCATE ALL CONDUIT OPENINGS PER MANUFACTURER'S INSTALLATION GUIDES. C. PROVIDE ALL ANCILLARY WIRING FOR CONTROL, COMMUNICATION, BATTERY	
	CHARGE, BLOCK HEATER, ETC. D. INSTALL PAD AND GENERATOR SUCH THAT REQUIRED CLEARANCES FROM	
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	DERIVED SYSTEM (GENERATOR SERVING MULTIPLE BUILDINGS/STRUCTURES FOR EXAMPLE) PROVIDE PROPER GROUNDING AND USE 4-POLE TRANSFER SWITCHES AS REQUIRED BY NEC 250.	
	GENERAL NOTES - POWER	
	A. ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR ALL CONDUIT/CABLE ROUTING. COORDINATE ROUTING WITH ALL OTHER TRADES AND BUILDING	
	CONDITIONS. B. SEE SINGLE LINE DIAGRAM FOR FEEDER WIRE AND CONDUIT SIZE. ALL	DD Set 11.03.2023
	CIRCUITS NOT SIZED ON DRAWING SHALL BE INSTALLED TO MEET MINIMUM SIZE REQUIRED BY NEC. C. PROVIDE MOTOR STARTERS FOR EQUIPMENT AS INDICATED ON DRAWINGS.	
	COORDINATE ANY INTERLOCKING WIRING WITH HVAC CONTRACTOR AND PROVIDE WIRING, COILS, AND AUXILIARY CONTACTS AS NECESSARY. SIZE ALL CIRCUITS FOR ACTUAL EQUIPMENT TO BE CONNECTED.	
	D. ALL PANELS AND DISCONNECTS LOCATED OUTDOORS SHALL BE LABELED NEMA 3R.	
	E. ROOF MOUNTED AND OUTDOOR EQUIPMENT SHALL HAVE 120V RECEPTACLE MOUNTED WITHIN 25' OF EACH PIECE. RECEPTACLES SHALL BE IN WEATHER PROOF BOX AND HAVE GFCI PROTECTION.	
	F. FOR ITEMS FURNISHED BY OTHER TRADES, ELECTRICAL CONTRACTOR TO FULLY COORDINATE BREAKER AND WIRE SIZES WITH ACTUAL EQUIPMENT BEING CONNECTED PRIOR TO ROUGH-IN, OR INSTALLATION. THE SIZES ON	
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	SIZES WITH THE CONTRACTOR FURNISHING THE EQUIPMENT. G. REFER TO ARCHITECT'S PLANS AND ELEVATIONS FOR ALL DEVICE MOUNTING HEIGHTS.	
	H. 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. GAS PIPING SYSTEMS MUST BE BONDED PER UTILITY PROVIDER'S INSTALLATION	
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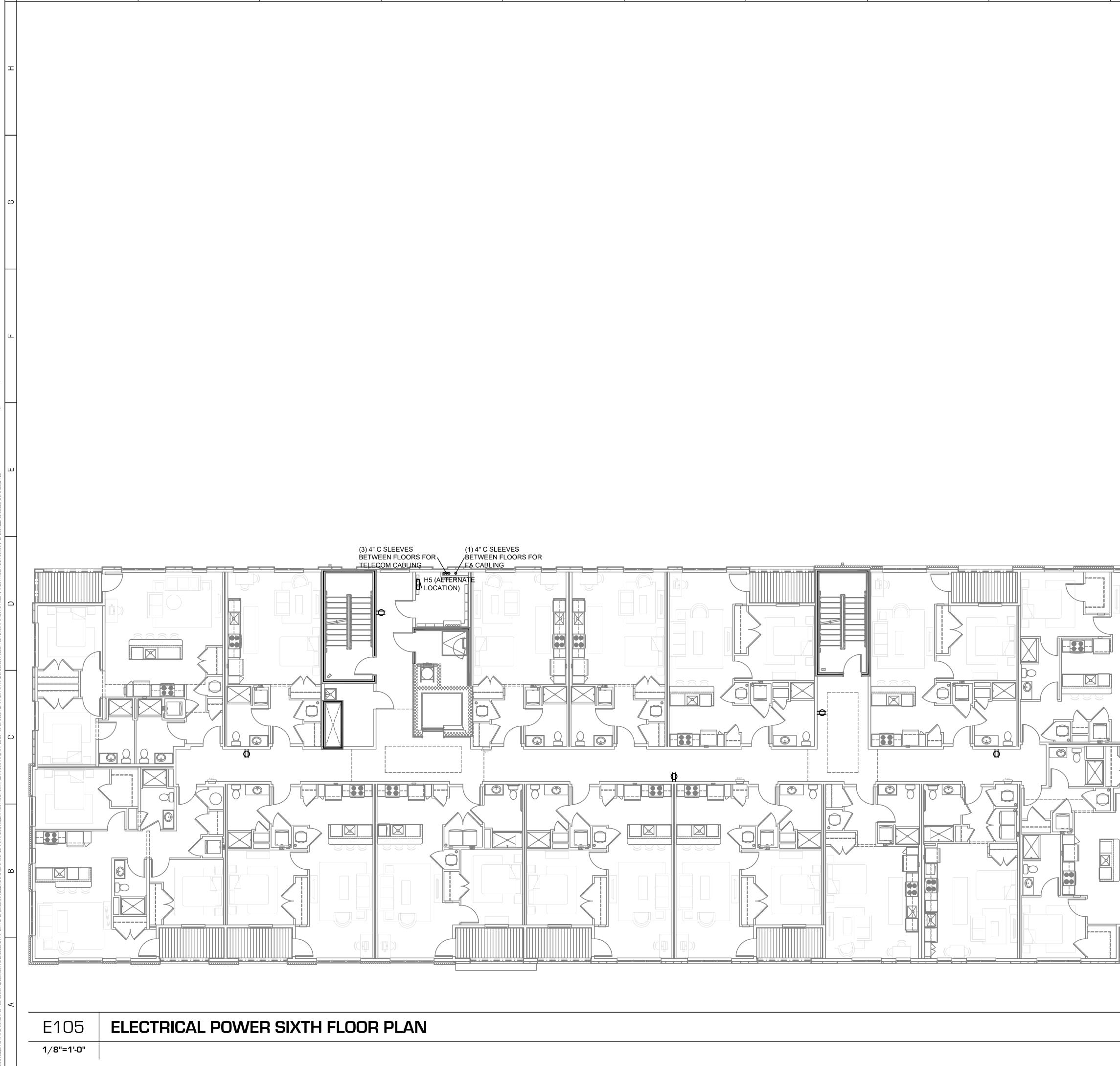
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	SCOPE OF WORK	PARAMOUNT
	NEW CONSTRUCTION OF A MIXED USE MUTLI-TENANT BUILDING. COMMERCIAL TENANTS ON THE FIRST AND SECOND FLOORS AND RESIDENTIAL TENANTS ON FLOORS 2-6.	WORKS
	SCOPE OF WORK INCLUDES ELECTRICAL EQUIPMENT, FEEDERS, BRANCH CIRCUIT WIRING, LIGHTING, AND DEVICES.	NWC KEMPER LANE & E. McMILLAN ST 2505 KEMPER LN CINCINNATI, OH 45206
	SEE SINGLE LINE DIAGRAM, PANEL SCHEDULES, AND NOTES FOR ADDITIONAL INFORMATION.	WALNUT HILLS NEIGHBORHOOD
	GENERAL NOTES - OVERALL PROJECT	
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	GENERAL NOTES - POWER	
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	CONDITIONS. B. SEE SINGLE LINE DIAGRAM FOR FEEDER WIRE AND CONDUIT SIZE. ALL CIRCUITS NOT SIZED ON DRAWING SHALL BE INSTALLED TO MEET MINIMUM	DD Set 11.03.2023
	SIZE REQUIRED BY NEC. C. PROVIDE MOTOR STARTERS FOR EQUIPMENT AS INDICATED ON DRAWINGS. COORDINATE ANY INTERLOCKING WIRING WITH HVAC CONTRACTOR AND	
	PROVIDE WIRING, COILS, AND AUXILIARY CONTACTS AS NECESSARY. SIZE ALL CIRCUITS FOR ACTUAL EQUIPMENT TO BE CONNECTED.	
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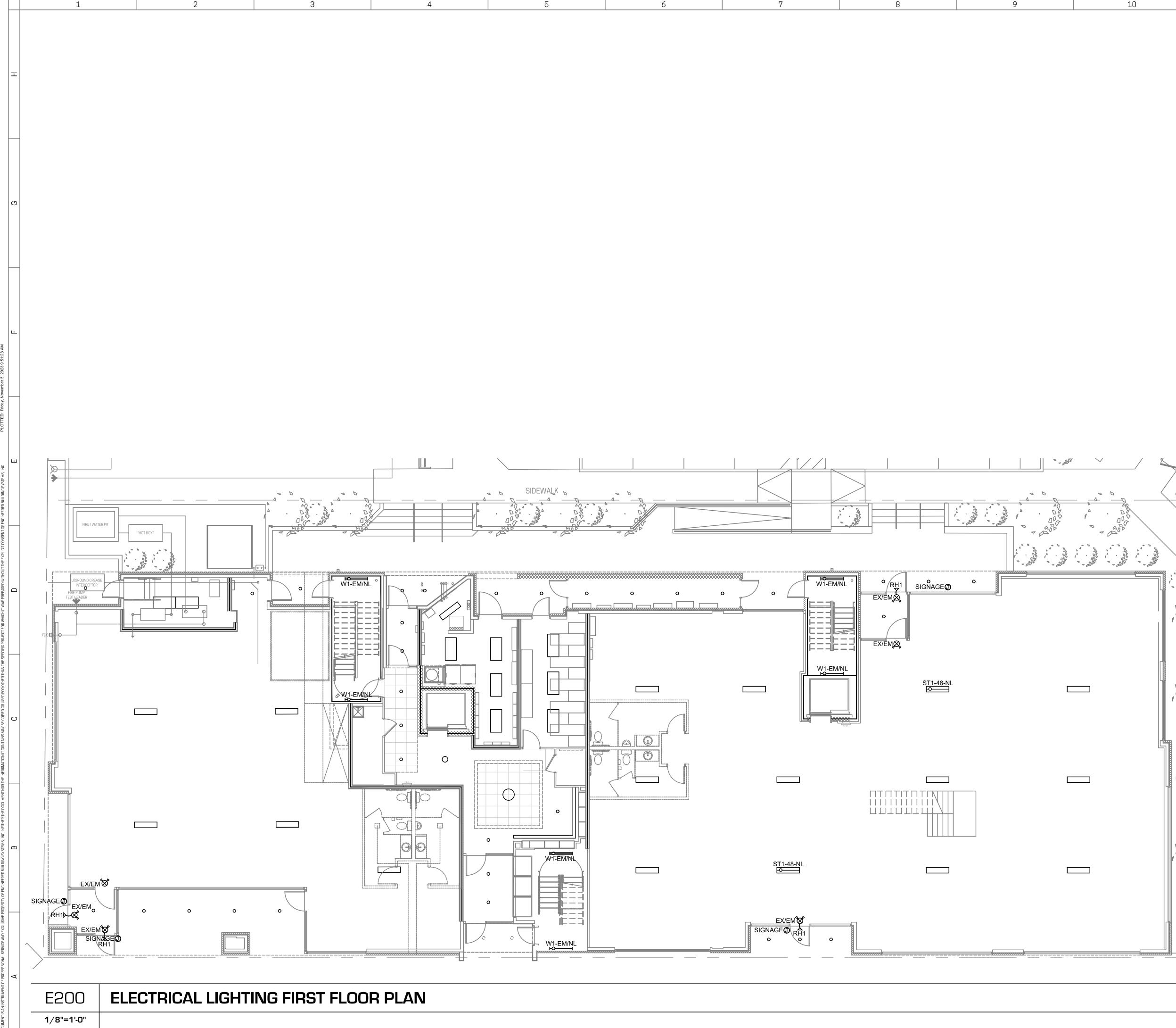
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	 SCOPE OF WORK NEW CONSTRUCTION OF A MIXED USE MUT TENANTS ON THE FIRST AND SECOND FLOO FLOORS 2-6. SCOPE OF WORK INCLUDES ELECTRICAL E WIRING, LIGHTING, AND DEVICES. SEE SINGLE LINE DIAGRAM, PANEL SCHEDU INFORMATION. GENERAL NOTES - OX A. EBS DRAWINGS INDICATE DESIGN INTE CONDITIONS ARISE IN THE FIELD THAT DRAWINGS IT IS ASSUMED THAT THE O AVAILABLE TO ASSIST WHEN REQUIRE GENERAL NOTES - EL A. FURNISH AND INSTALL ALL REQUIRED CONNECTIONS FOR ELEVATOR OPERA DRAWINGS FOR COMPLETE INFORMAT FOR ELEVATOR CIRCUIT WHERE REQU SHAFT, SUMP PUMP, PIT LIGHT, RECEP DESIGN HP AND CIRCUIT CHARACTERIS VERIFIED WITH ELEVATOR SUPPLIER P GENERAL NOTES - GE A. GENERATORS, TRANSFER SWITCHES, I START-UP/OPERATION REQUIREMENTS REQUIREMENTS FOR THEIR USE - STAM EMERGENCY, ETC. CONTRACTOR SHALL COORDINATE PAI SUPPLIER AND LOCATE ALL CONDUIT O INSTALLATION GUIDES. PROVIDE ALL ANCILLARY WIRING FOR C CHARGE, BLOCK HEATER, ETC. INSTALL PAD AND GENERATOR SUCH T BUILDINGS, BUILDING OPENINGS, AND MAINTAINED. COORDINATE GENERATOR CIRCUIT BR ACTUAL EQUIPMENT BEING CONNECTE F. WHERE THE GENERATOR IS REQUIRED 	LI-TENANT BUILDING. COMMERCIAL DRS AND RESIDENTIAL TENANTS ON QUIPMENT, FEEDERS, BRANCH CIRCUIT JLES, AND NOTES FOR ADDITIONAL /ERALL PROJECT NTAND REQUIRED OUTCOMES. IF REQUIRE DEVIATIONS FROM THE JOINTRACTOR WILL DETERMINE THE DAL FROM THE OWNER. EBS IS D IF ISSUES ARISE. EVACTOR(S) ELECTRICAL COMPONENTS AND TION. REFER TO ELEVATOR SHOP ION. PROVIDE SHUNT-TRIP OPERATION IRED. INCLUDE CONNECTIONS FOR TACLE, CAB LIGHT, ETC. BASIS OF STICS SHOWN ON DRAWINGS MUST BE PROVIDE SHUNT-TRIP OPERATION IRED. INCLUDE CONNECTIONS FOR TACLE, CAB LIGHT, ETC. BASIS OF STICS SHOWN ON DRAWINGS MUST BE PROVIDE SHUNT-TRIP OPERATION INFOLUTE CONFORM TO THE SUCK TO ROUGH-IN OR INSTALLATION. ENERCENTOR FUEL CAPACITY/RUN-TIMES, AND S SHALL CONFORM TO THE SHALL CONFORM TO THE SOFT ON COMMUNICATION, BATTERY THAT REQUIRED CLEARANCES FROM OTHER OBSTRUCTIONS ARE REAKER/FEEDER REQUIREMENTS WITH ED - FIRE PUMP, ETC. D TO OPERATE AS A SEPARATELY NG MULTIPLE BUILDINGS/STRUCTURES UNDING AND USE 4-POLE TRANSFER DVEER ISIBLE FOR ALL CONDUIT/CABLE H ALL OTHER TRADES AND BUILDING ER WIRE AND CONDUIT SIZE. ALL ALL BE INSTALLED TO MEET MINIMUM PMENT AS INDICATED ON DRAWINGS. ING WITH HVAC CONTRACTOR AND RY CONTACTS AS NECESSARY. SIZE TO BE CONNECTED. TED OUTDOORS SHALL BE LABELED PMENT SHALL HAVE 120V RECEPTACLE RECEPTACLES SHALL BE IN WEATHER IN, OR INSTALLATION. THE SIZES ON IS DESIGN SELECTIONS, AND ACTUAL ESIGN. IT IS THE RESPONSIBILITY OF INFIRM REQUIRED WIRE AND BREAKER; HING THE EQUIPMENT. EVATIONS FOR ALL DEVICE MOUNTING GAND BODING IS CORSIDERED FOR IND BONDING SC REQUIRED FOR IND ROMINE SC RESULTED BY THE SANDULE BE COMPLET. BUSTERS AND IND ROMINE SC RESULTED BY THE SANDULE BE COMPLET. BY THE S	PARAMOUNT WUCKEMPER LANE & E. MAMILLAN ST ZSOS KEMPER LIN CINCINNATI, OH 45206 WILNUT HILLS NEIGHBORHOOD
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SCOPE OF WORK
NEW CONSTRUCTION OF A MIXED USE MUTLI-TENANT BUILDING. COMMERCIAL TENANTS ON THE FIRST AND SECOND FLOORS AND RESIDENTIAL TENANTS ON FLOORS 2-6.
SCOPE OF WORK INCLUDES ELECTRICAL EQUIPMENT, FEEDERS, BRANCH CIRCUIT WIRING, LIGHTING, AND DEVICES.
SEE SINGLE LINE DIAGRAM, PANEL SCHEDULES, AND NOTES FOR ADDITIONAL INFORMATION.
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GENERAL NOTES - LIGHTING
A. REFER TO ARCHITECT'S PLANS AND ELEVATIONS FOR DIMENSIONED LOCATIONS OF LIGHT FIXTURES.
B. PROVIDE HOLD-ON-TYPE BREAKERS FOR EGRESS/EMERGENCY LIGHTING CIRCUITS. WIRE ALL EGRESS/EMERGENCY FIXTURES AHEAD OF ANY LOCAL SWITCHING.

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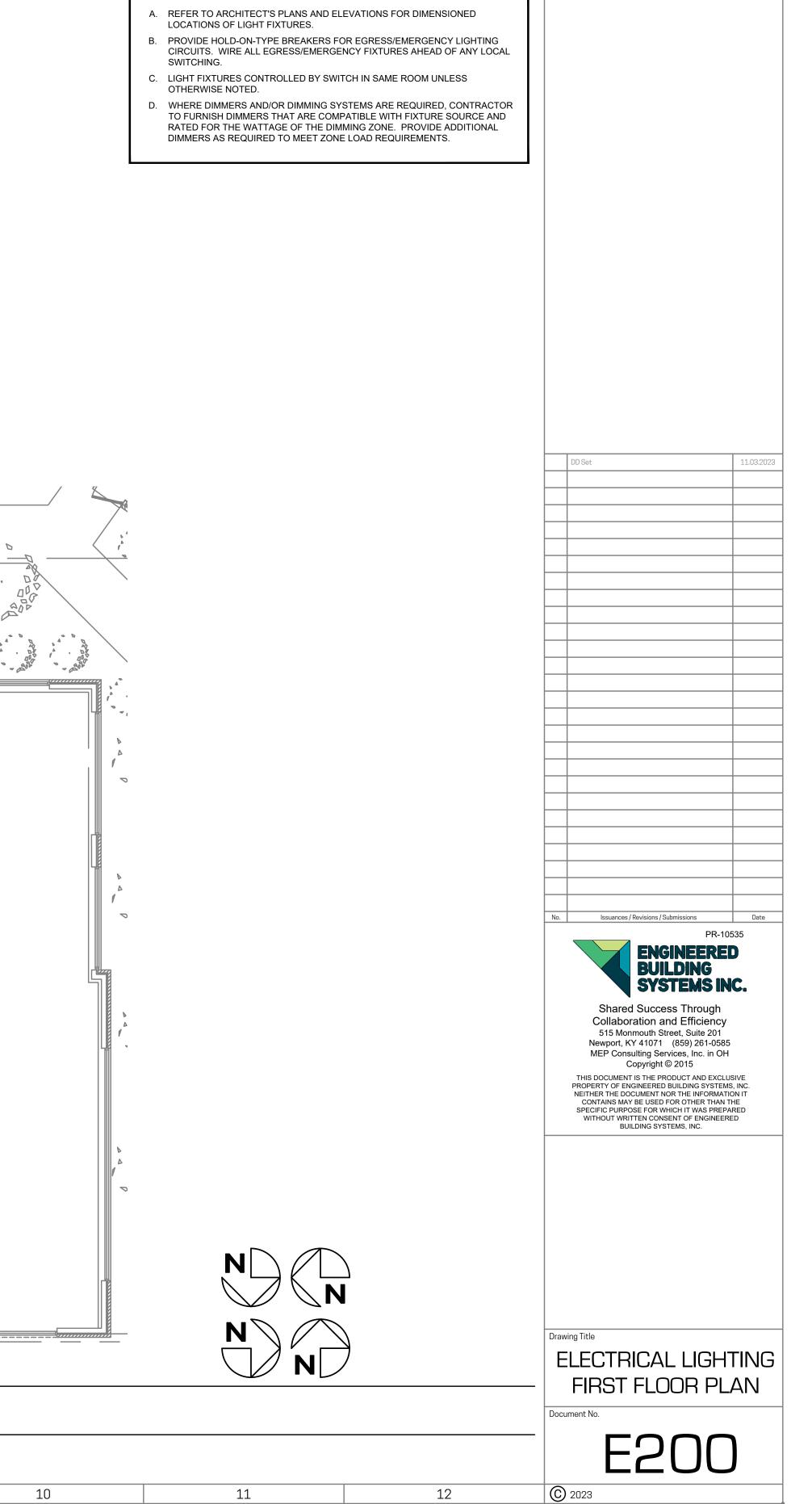
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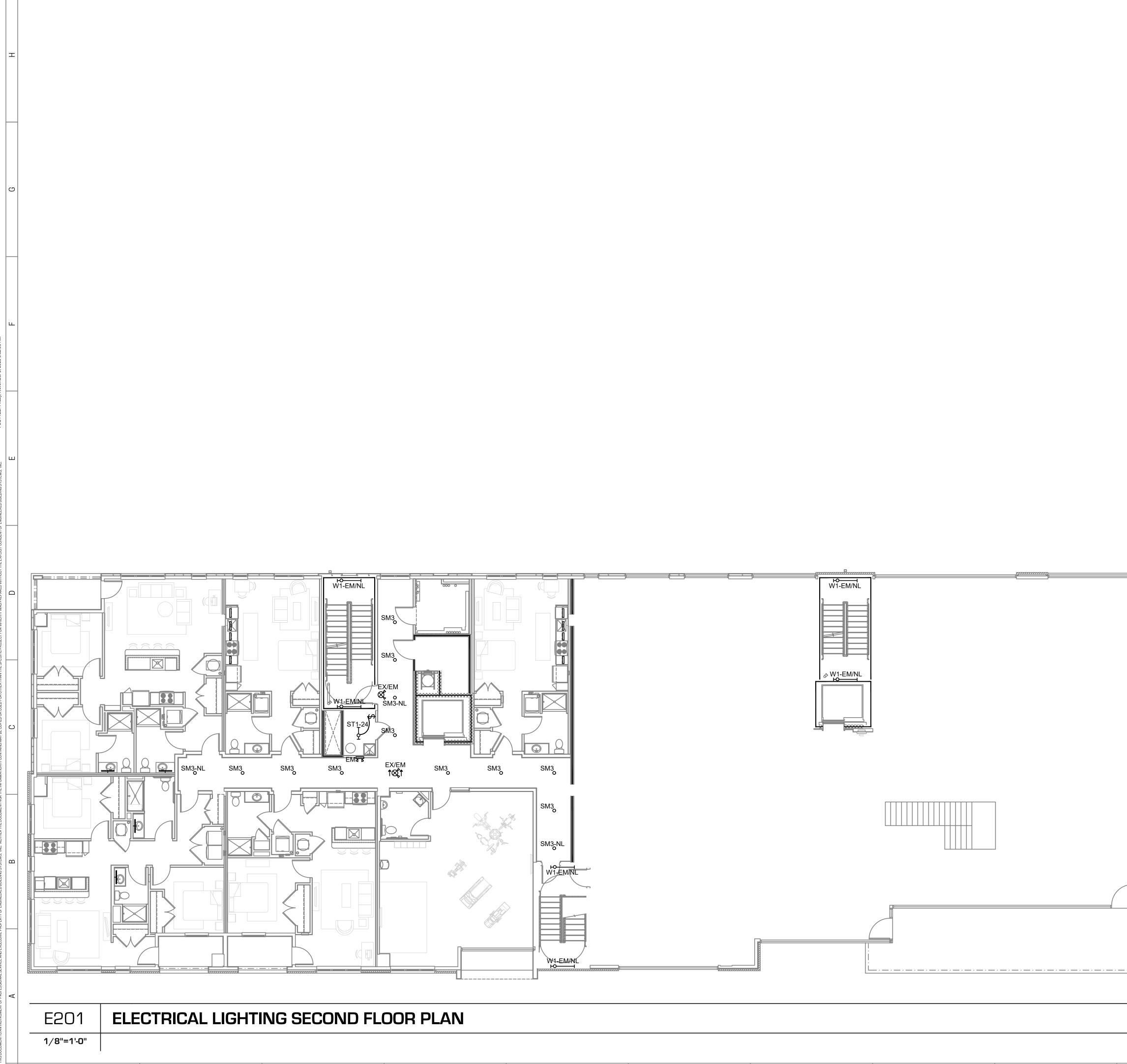
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WALNUT HILLS NEIGHBORHOOD



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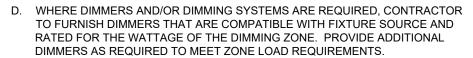


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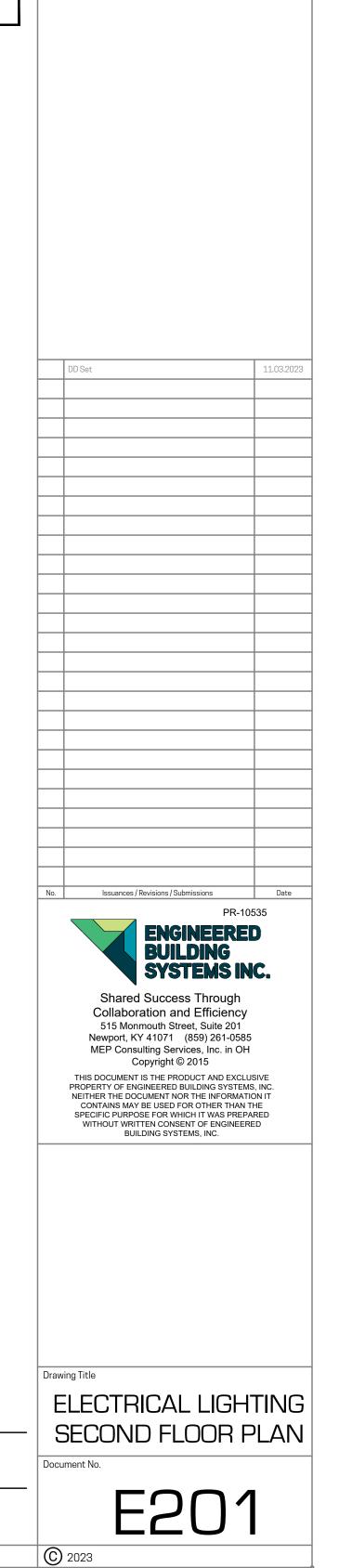
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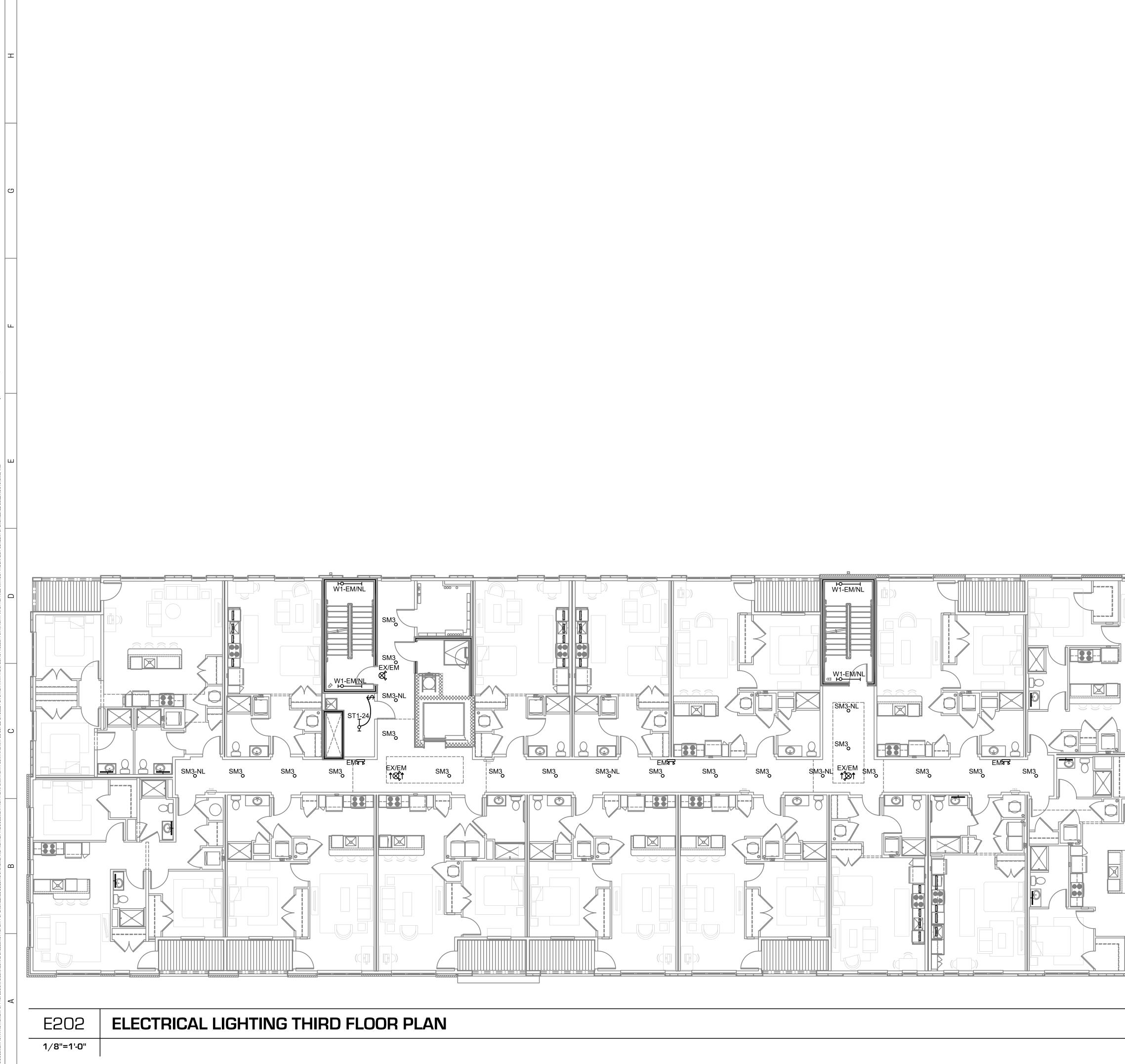
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PARAMOUNT SCOPE OF WORK NEW CONSTRUCTION OF A MIXED USE MUTLI-TENANT BUILDING. COMMERCIAL TENANTS ON THE FIRST AND SECOND FLOORS AND RESIDENTIAL TENANTS ON FLOORS 2-6. SCOPE OF WORK INCLUDES ELECTRICAL EQUIPMENT, FEEDERS, BRANCH CIRCUIT WIRING, LIGHTING, AND DEVICES. SEE SINGLE LINE DIAGRAM, PANEL SCHEDULES, AND NOTES FOR ADDITIONAL INFORMATION. GENERAL NOTES - OVERALL PROJECT A. EBS DRAWINGS INDICATE DESIGN INTENT AND REQUIRED OUTCOMES. IF CONDITIONS ARISE IN THE FIELD THAT REQUIRE DEVIATIONS FROM THE DRAWINGS IT IS ASSUMED THAT THE CONTRACTOR WILL DETERMINE THE APPROPRIATE DEVIATION WITH APPROVAL FROM THE OWNER. EBS IS AVAILABLE TO ASSIST WHEN REQUIRED IF ISSUES ARISE. GENERAL NOTES - LIGHTING A. REFER TO ARCHITECT'S PLANS AND ELEVATIONS FOR DIMENSIONED LOCATIONS OF LIGHT FIXTURES. B. PROVIDE HOLD-ON-TYPE BREAKERS FOR EGRESS/EMERGENCY LIGHTING CIRCUITS. WIRE ALL EGRESS/EMERGENCY FIXTURES AHEAD OF ANY LOCAL SWITCHING. C. LIGHT FIXTURES CONTROLLED BY SWITCH IN SAME ROOM UNLESS OTHERWISE NOTED. 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.

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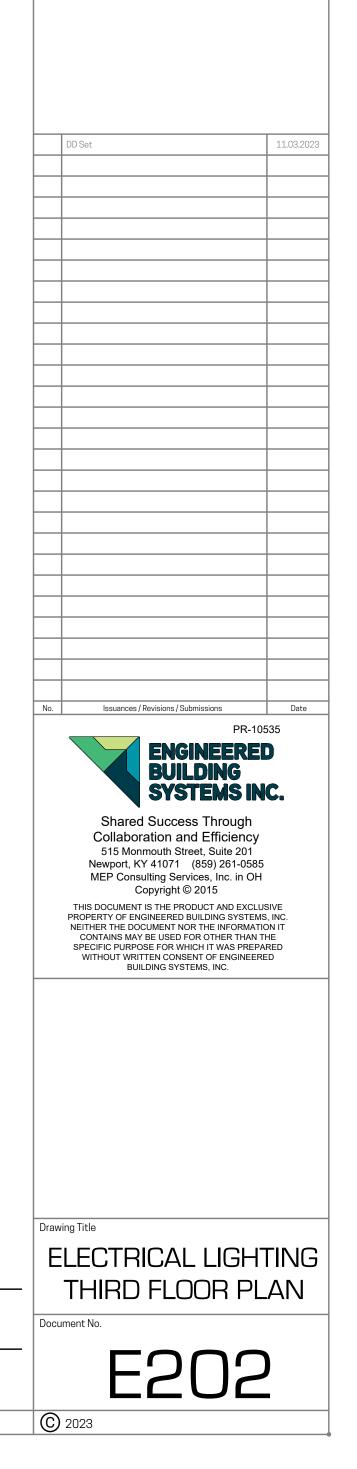
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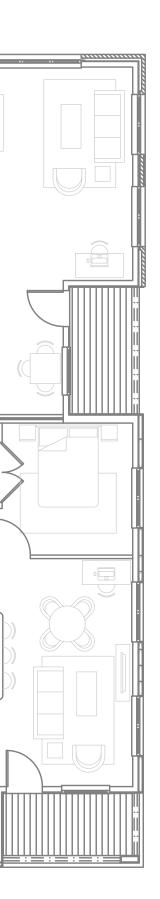
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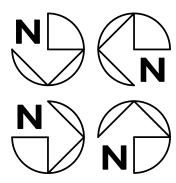
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WALNUT HILLS NEIGHBORHOOD

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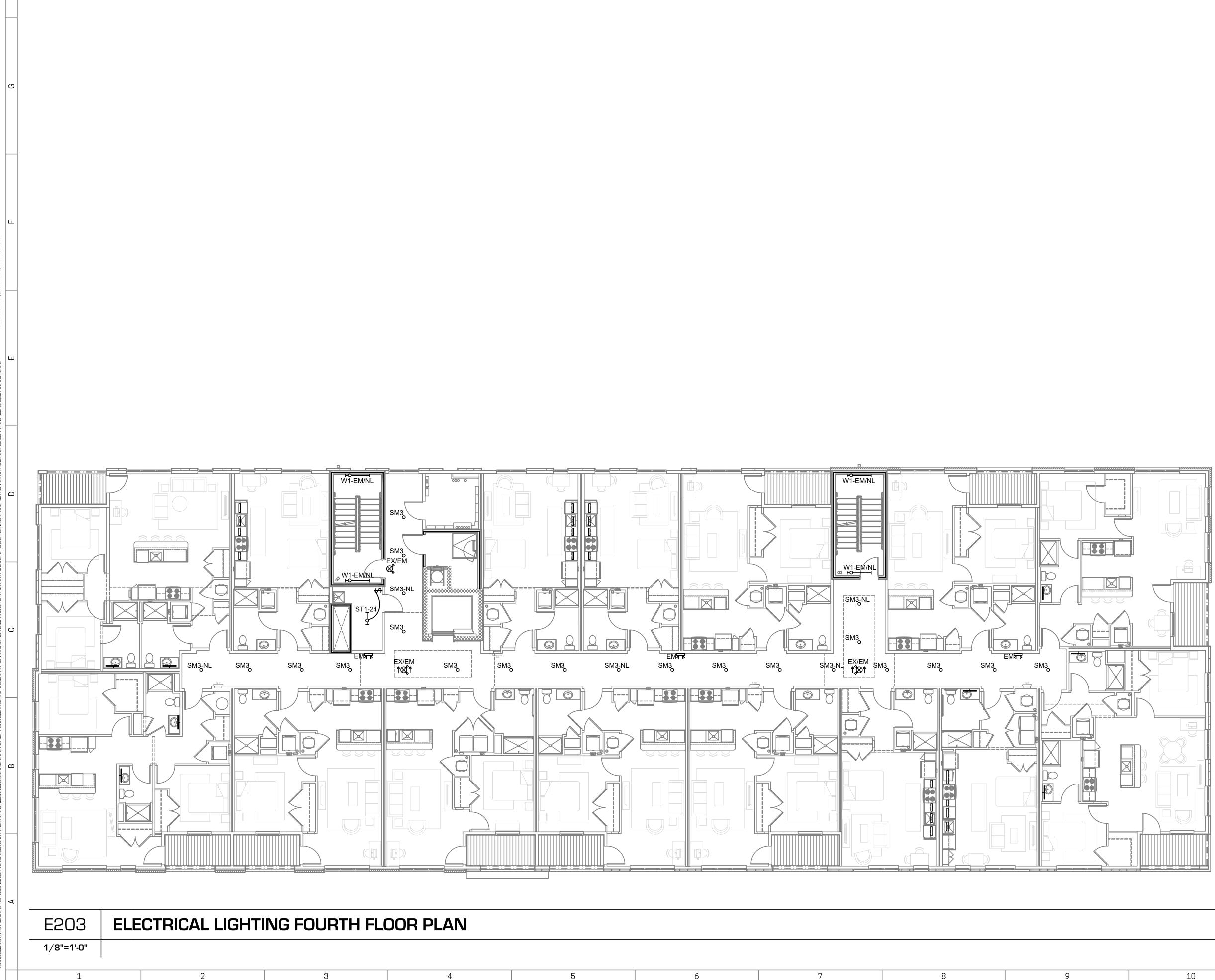




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D.	WHERE DIMMERS AND/OR DIMMING SYSTEMS ARE REQUIRED, CONTRACTOR TO FURNISH DIMMERS THAT ARE COMPATIBLE WITH FIXTURE SOURCE AND RATED FOR THE WATTAGE OF THE DIMMING ZONE. PROVIDE ADDITIONAL DIMMERS AS REQUIRED TO MEET ZONE LOAD REQUIREMENTS.

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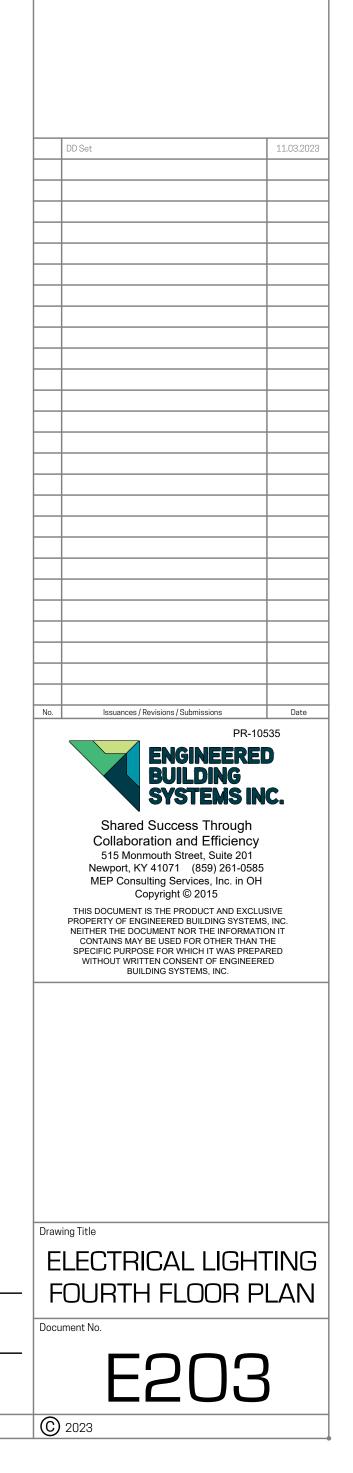
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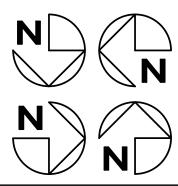
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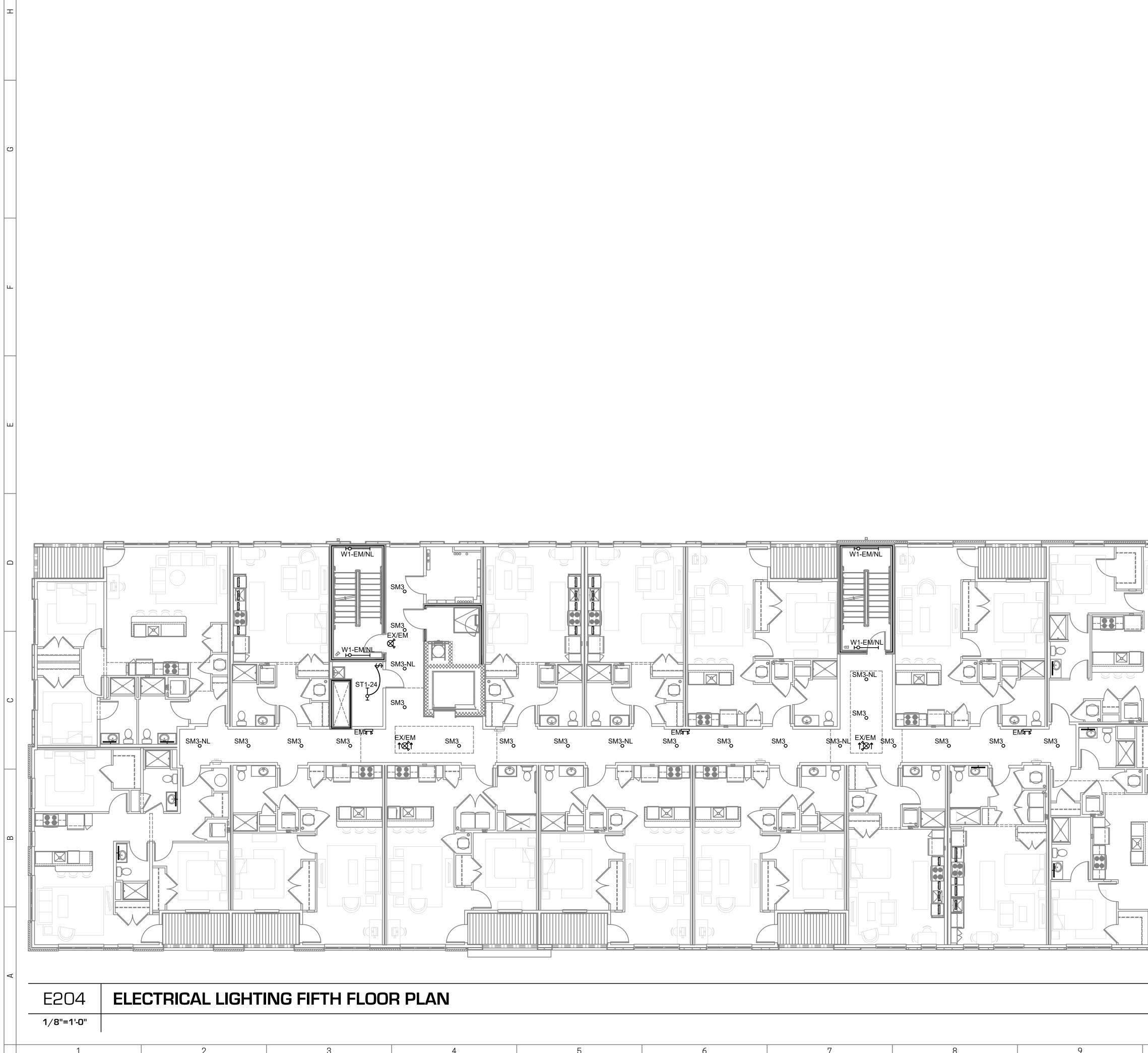
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SCOPE OF WORK NEW CONSTRUCTION OF A MIXED USE MUTLI-TENANT BUILDING. COMMERCIAL TENANTS ON THE FIRST AND SECOND FLOORS AND RESIDENTIAL TENANTS ON FLOORS 2-6. SCOPE OF WORK INCLUDES ELECTRICAL EQUIPMENT, FEEDERS, BRANCH CIRCUIT WIRING, LIGHTING, AND DEVICES. SEE SINGLE LINE DIAGRAM, PANEL SCHEDULES, AND NOTES FOR ADDITIONAL INFORMATION. GENERAL NOTES - OVERALL PROJECT A. EBS DRAWINGS INDICATE DESIGN INTENT AND REQUIRED OUTCOMES. IF CONDITIONS ARISE IN THE FIELD THAT REQUIRE DEVIATIONS FROM THE DRAWINGS IT IS ASSUMED THAT THE CONTRACTOR WILL DETERMINE THE APPROPRIATE DEVIATION WITH APPROVAL FROM THE OWNER. EBS IS AVAILABLE TO ASSIST WHEN REQUIRED IF ISSUES ARISE. GENERAL NOTES - LIGHTING A. REFER TO ARCHITECT'S PLANS AND ELEVATIONS FOR DIMENSIONED LOCATIONS OF LIGHT FIXTURES. B. PROVIDE HOLD-ON-TYPE BREAKERS FOR EGRESS/EMERGENCY LIGHTING CIRCUITS. WIRE ALL EGRESS/EMERGENCY FIXTURES AHEAD OF ANY LOCAL SWITCHING. C. LIGHT FIXTURES CONTROLLED BY SWITCH IN SAME ROOM UNLESS OTHERWISE NOTED.

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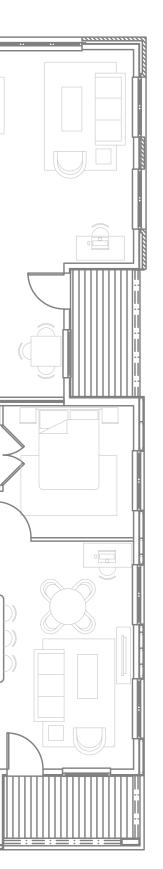
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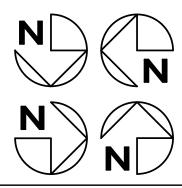
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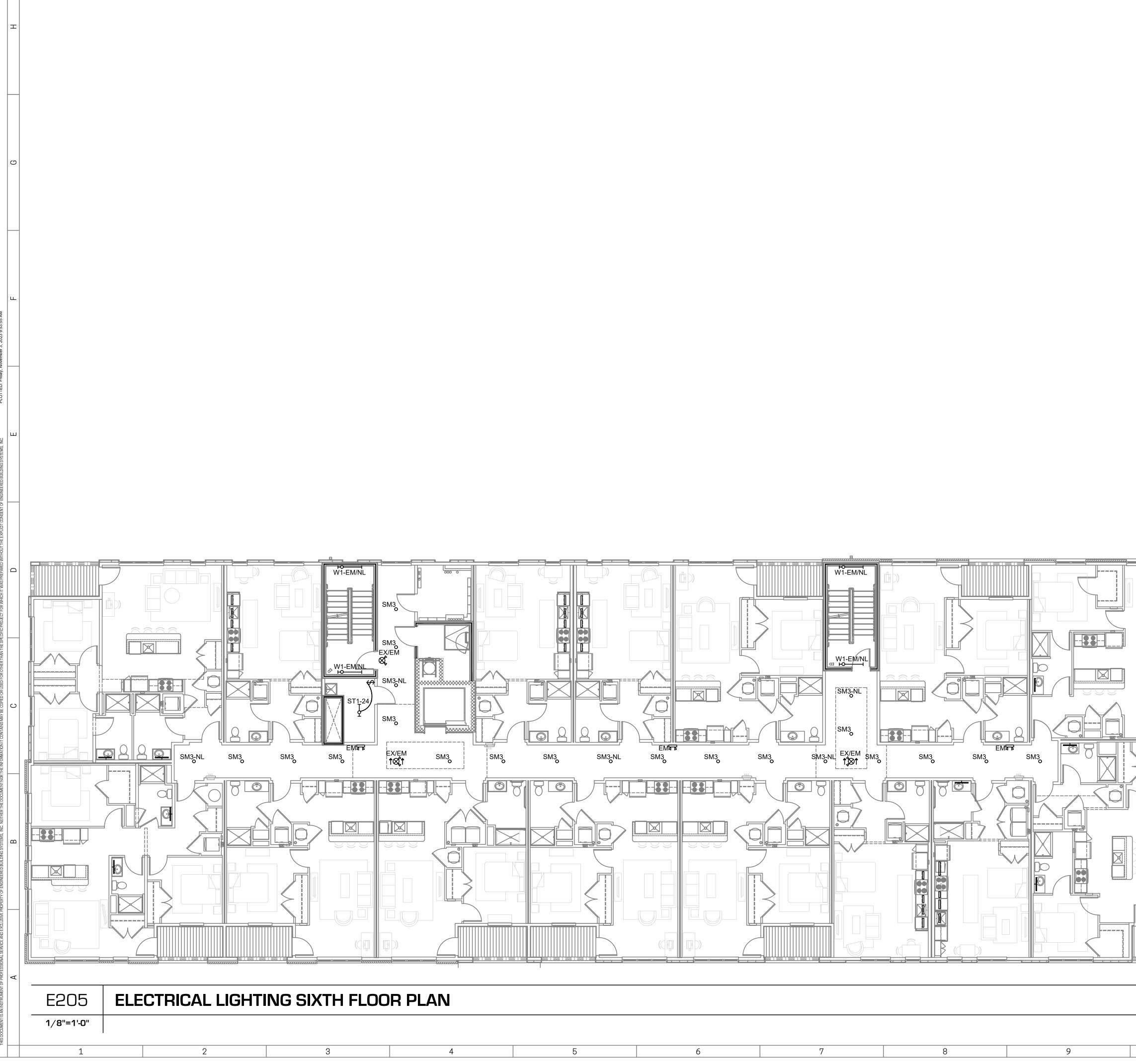
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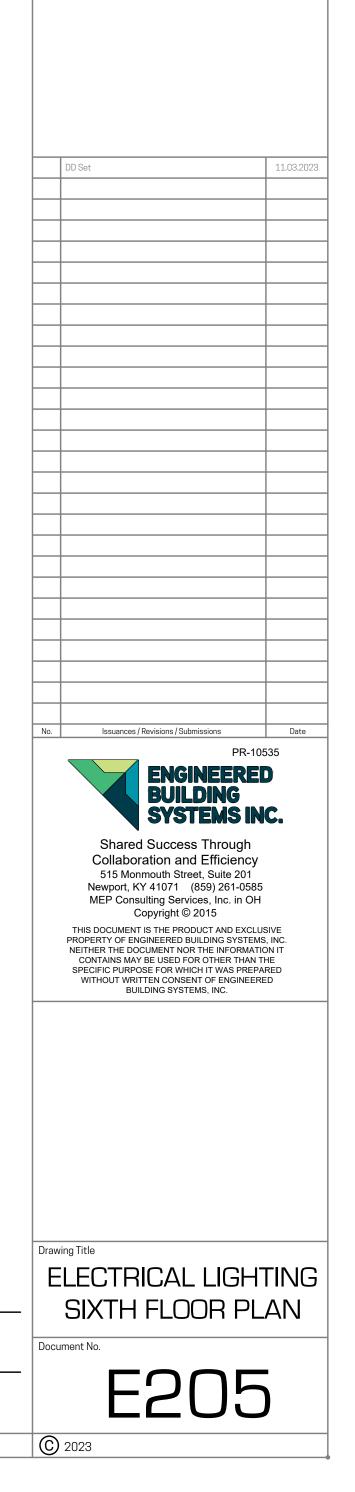
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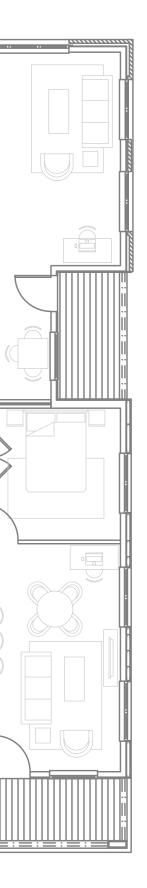
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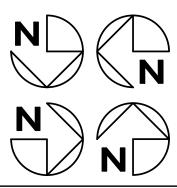
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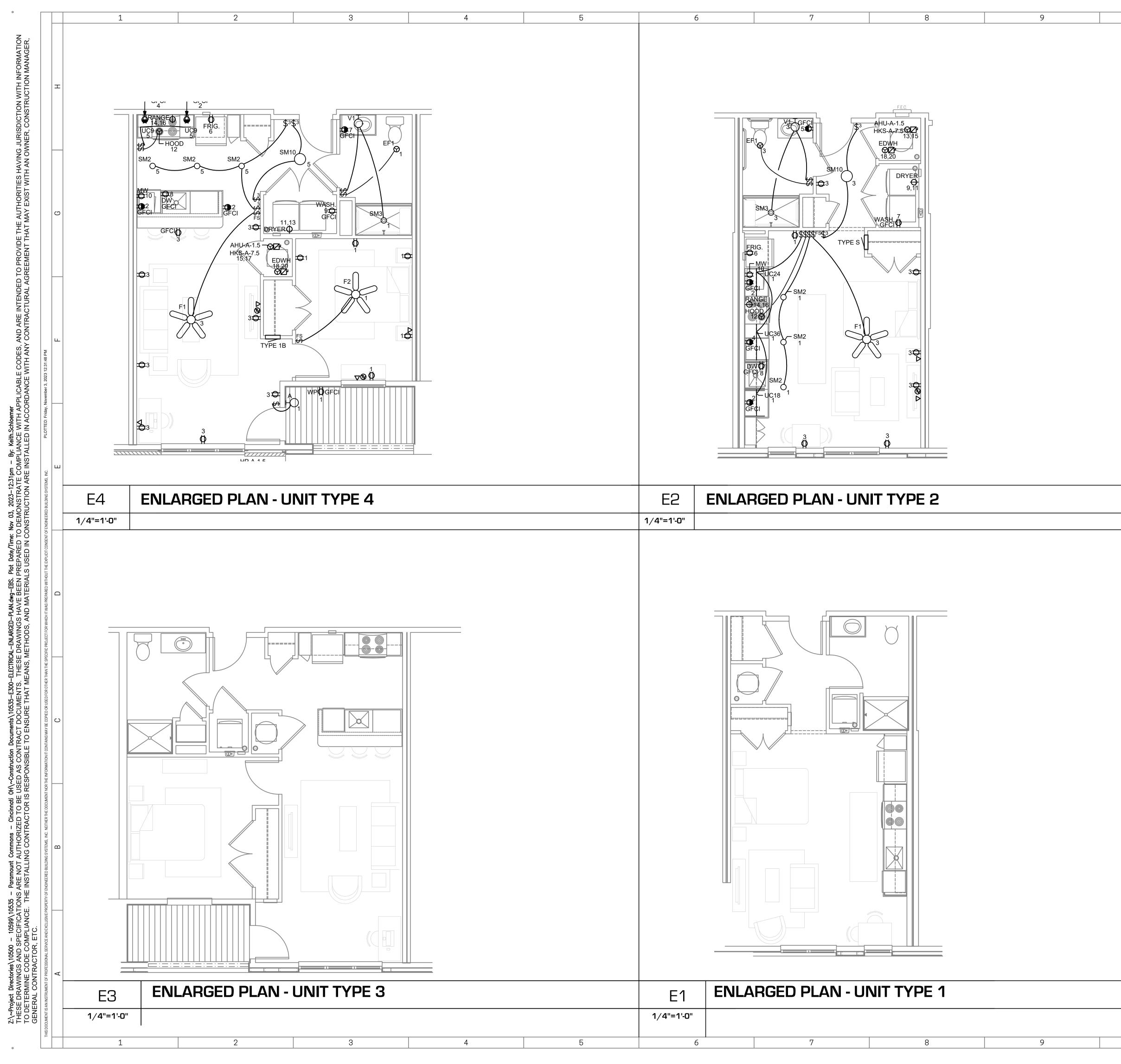
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WALNUT HILLS NEIGHBORHOOD





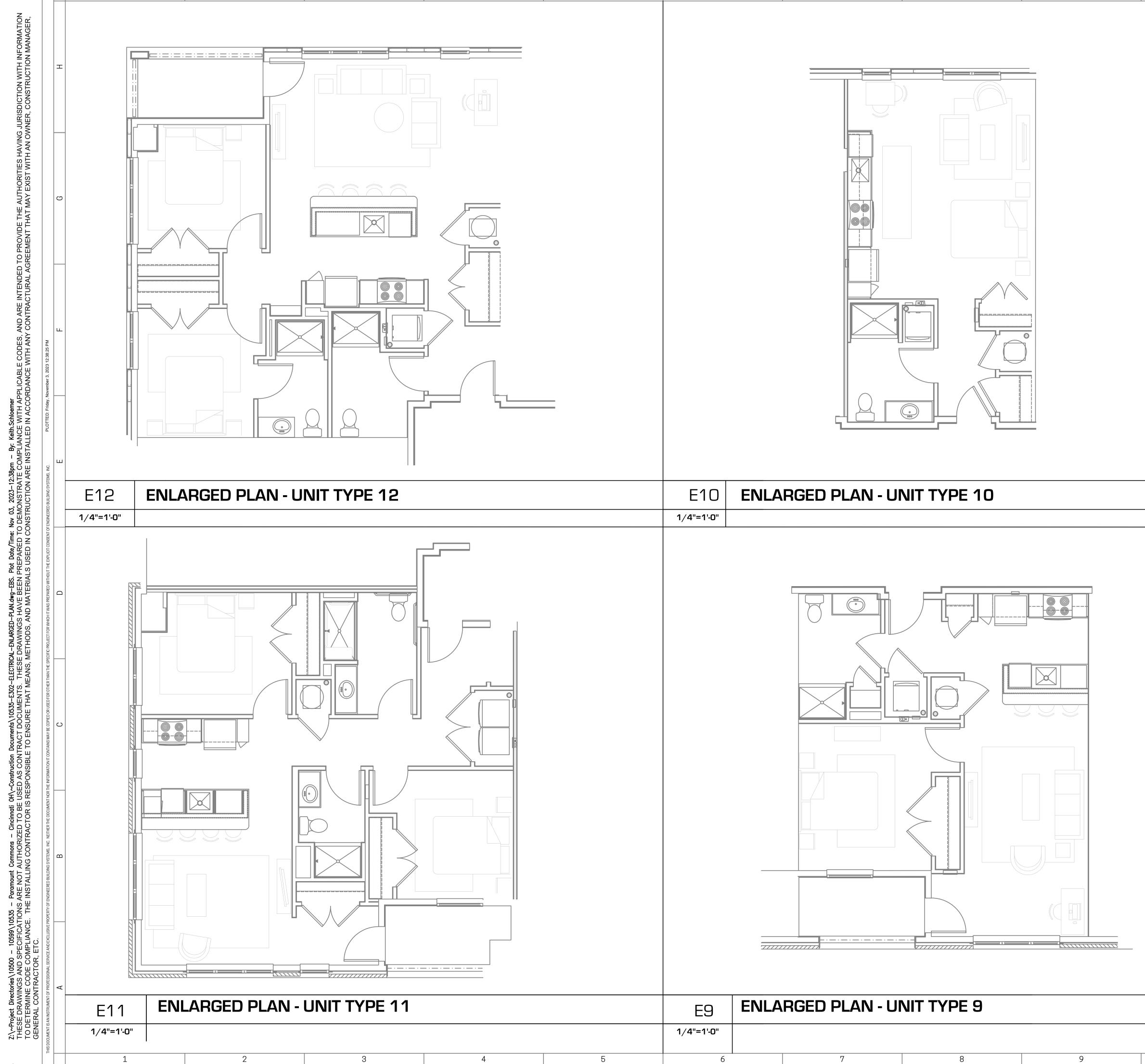
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	D. WHERE CIRCUITING IS SHOWN TYPICA BREAKER/WIRE SIZES FOR EQUIPMENT DRAWINGS PROVIDED BY THE CONTRA	FURNISHED BY OTHERS WITH SHOP			
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				ENGINEERE BUILDING SYSTEMS IN Shared Success Through Collaboration and Efficiency 515 Monmouth Street, Suite 201 Newport, KY 41071 (859) 261-0585 MEP Consulting Services, Inc. in OH Copyright © 2015	JSIVE IS, INC.
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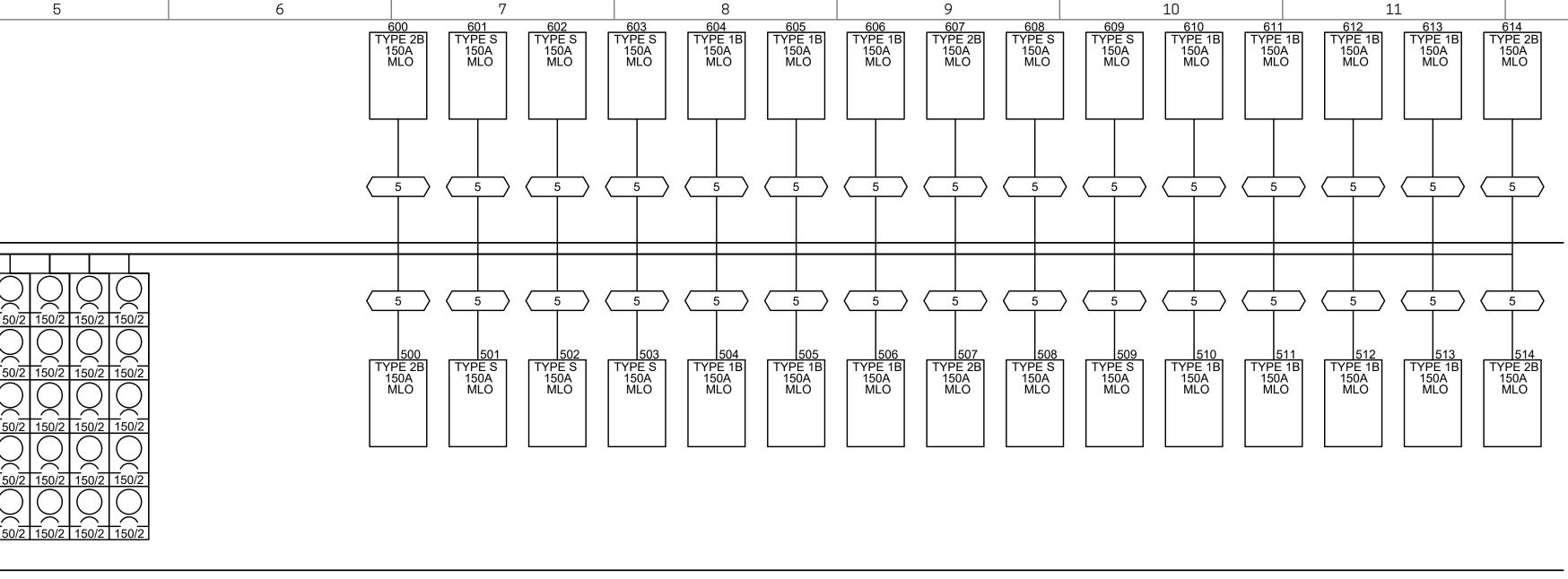


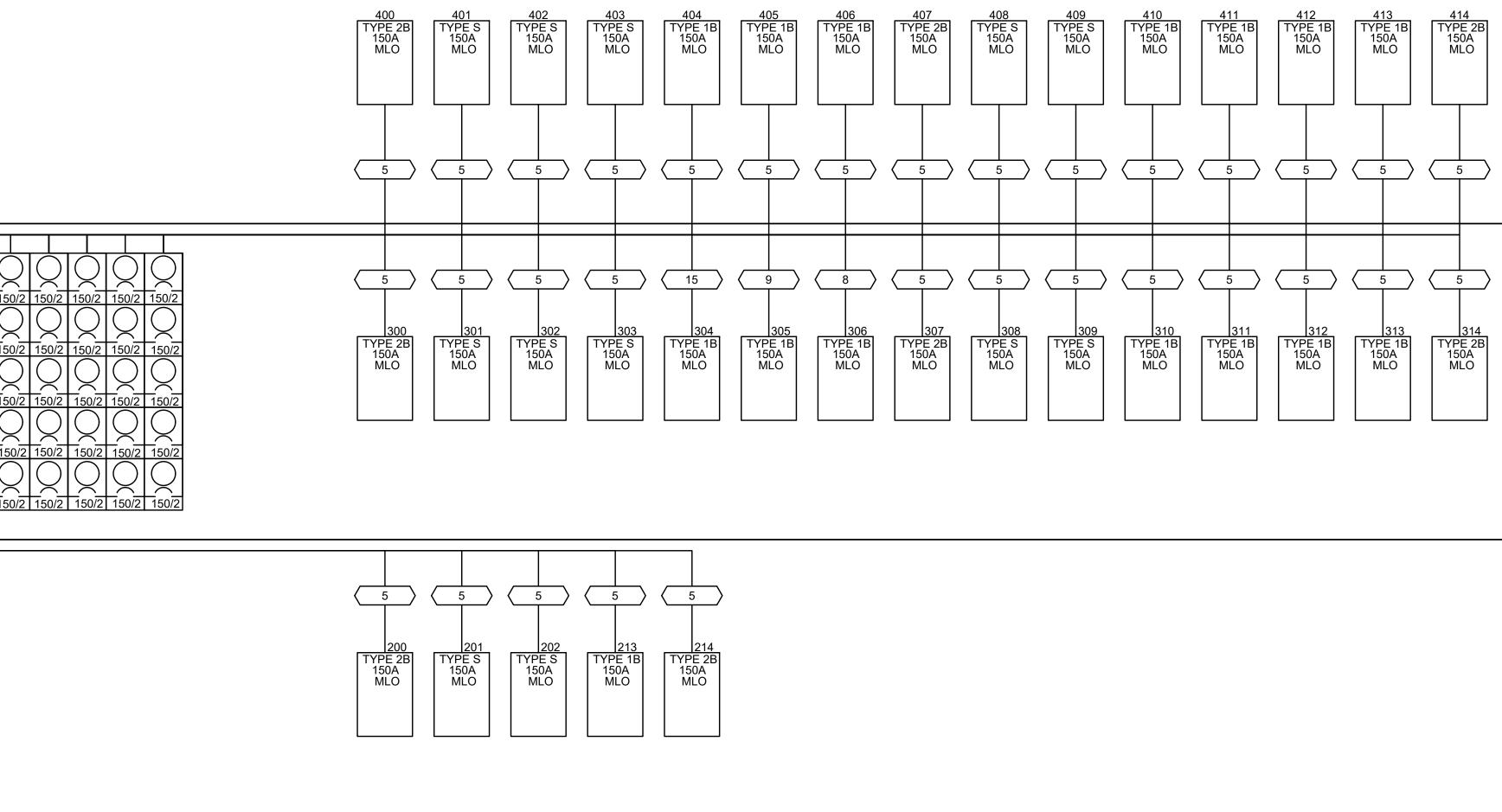
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						MC5 2000A MLO 150/2	2 150/2
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						MC3 2000A MLO 150/2	2 <u>150/2</u>
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		THIRD				150/2	2 150/2
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∢	:	GRADE					
			SEE	E SHEET E401 FOR CONTINUATION	5		
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A. ALL BREAKERS SHALL BE RATED TO CURRENT AT THEIR LOCATION. WHE USED IN ACCORDANCE WITH NEC 240 AND/OR HIS EQUIPMENT SUPPLIER M DOCUMENTATION AND LABELING. WHERE BREAKERS WITH ADJUSTABLE PROJECT. THE MANUFACTURER'S REI APPROPRIATE SETTINGS TO THE ELE INSTALLATION. PANEL SCHEDULES INDICATE BREA PROTECTION AS REQUIRED BY NEC. SIZES/TYPES FOR ITEMS FURNISHEE PRODUCT INFORMATION FOR ACTU ELECTRICAL CONTRACTOR SHALL OR EQUIPMENT UNTIL PERMIT DRAW PROVIDE SELECTIVE COORDINATION OVERCURRENT PROTECTION DEVIC PROVIDE GROUND-FAULT PROTECTI WITH NEC 240.13 AND NEC 230.95. G. OVERCURRENT PROTECTION DEVICE ARE NOT LOCATED WITHIN SIGHT OF SHALL BE LOCKABLE AND THE TRANS THE LOCATION OF THE OVERCURREN CONTRACTOR TO PROVIDE GROUND ELECTRICAL SYSTEMS. GROUNDING AND METHODS OF CONSTRUCTION, ELECTRICAL CONTRACTOR IN ACCOF SYSTEMS MUST BE BONDED PER UTI GUIDELINES WHERE REQUIRED.

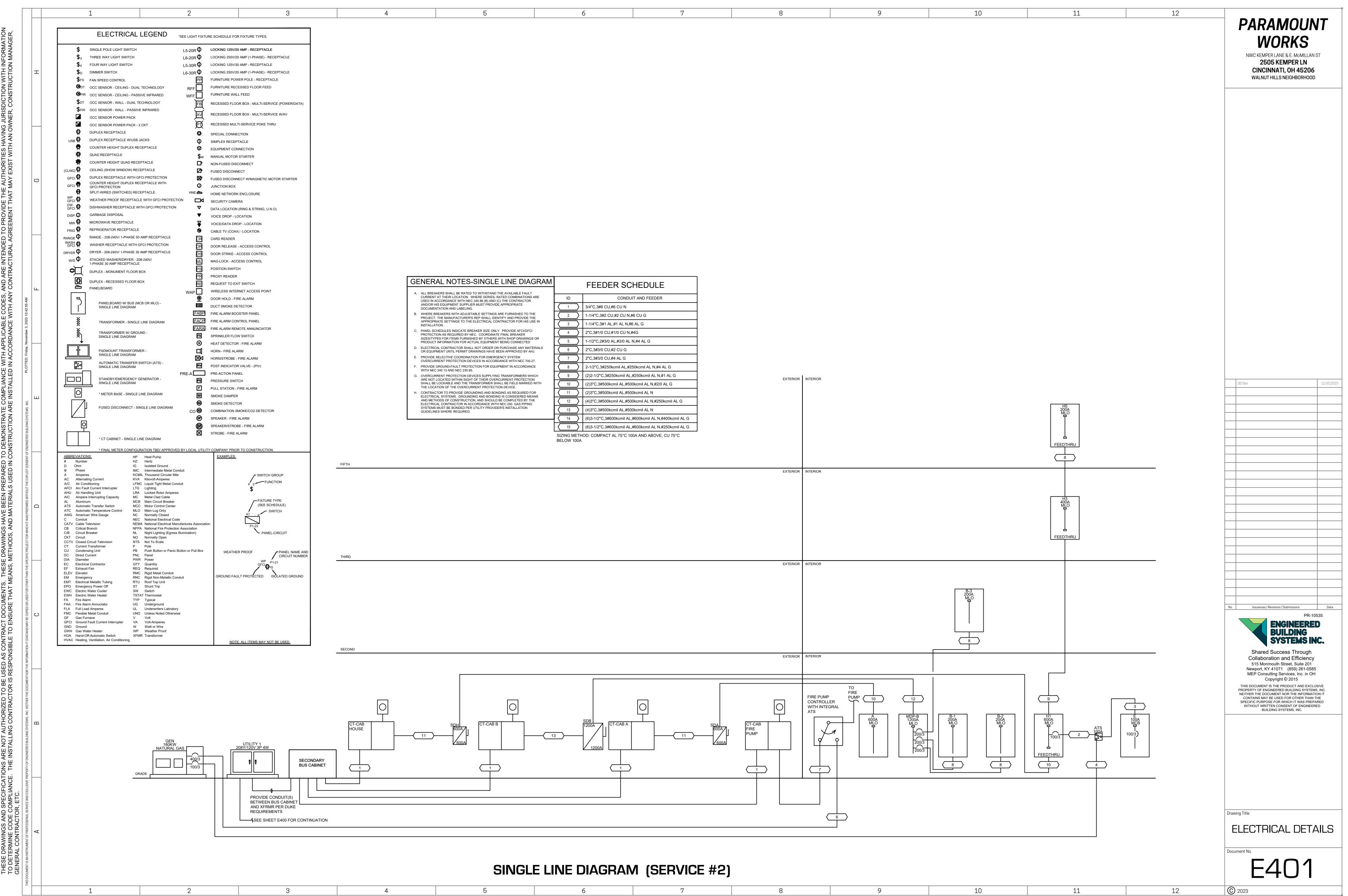
SINGLE LINE DIAGRAM (SERVICE #1)

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GE	ENERAL NOTES-SINGLE LINE DIAGRAM			FEEDER SCHEDULE
Α.	ALL BREAKERS SHALL BE RATED TO WITHSTAND THE AVAILABLE FAULT CURRENT AT THEIR LOCATION. WHERE SERIES- RATED COMBINATIONS ARE USED IN ACCORDANCE WITH NEC 240.86 (B) AND (C) THE CONTRACTOR	ID		CONDUIT AND FEEDER
	AND/OR HIS EQUIPMENT SUPPLIER MUST PROVIDE APPROPRIATE DOCUMENTATION AND LABELING.	1	\rangle	3/4"C,3#6 CU,#6 CU N
В.	WHERE BREAKERS WITH ADJUSTABLE SETTINGS ARE FURNISHED TO THE PROJECT. THE MANUFACTURER'S REP SHALL IDENTIFY AND PROVIDE THE	2	\rangle	1-1/4"C,3#2 CU,#2 CU N,#6 CU G
	APPROPRIATE SETTINGS TO THE ELECTRICAL CONTRACTOR FOR HIS USE IN INSTALLATION.	3	\rangle	1-1/4"C,3#1 AL,#1 AL N,#6 AL G
C.	PANEL SCHEDULES INDICATE BREAKER SIZE ONLY. PROVIDE AFCI/GFCI PROTECTION AS REQUIRED BY NEC. COORDINATE FINAL BREAKER	4	\rangle	2"C,3#1/0 CU,#1/0 CU N,#4G
	SIZES/TYPES FOR ITEMS FURNISHED BY OTHERS WITH SHOP DRAWINGS OR PRODUCT INFORMATION FOR ACTUAL EQUIPMENT BEING CONNECTED	5	\rangle	1-1/2"C,2#3/0 AL,#3/0 AL N,#4 AL G
D.	ELECTRICAL CONTRACTOR SHALL NOT ORDER OR PURCHASE ANY MATERIALS OR EQUIPMENT UNTIL PERMIT DRAWINGS HAVE BEEN APPROVED BY AHJ.	6	\rangle	2"C,3#3/0 CU,#2 CU G
E.	PROVIDE SELECTIVE COORDINATION FOR EMERGENCY SYSTEM OVERCURRENT PROTECTION DEVICES IN ACCORDANCE WITH NEC 700.27.	7	\rangle	2"C,3#3/0 CU,#4 AL G
F.	PROVIDE GROUND-FAULT PROTECTION FOR EQUIPMENT IN ACCORDANCE WITH NEC 240.13 AND NEC 230.95.	8	\rangle	2-1/2"C,3#250kcmil AL,#250kcmil AL N,#4 AL G
G.	OVERCURRENT PROTECTION DEVICES SUPPLYING TRANSFORMERS WHICH ARE NOT LOCATED WITHIN SIGHT OF THEIR OVERCURRENT PROTECTION	9	\rangle	(2)2-1/2"C,3#250kcmil AL,#250kcmil AL N,#1 AL G
	SHALL BE LOCKABLE AND THE TRANSFORMER SHALL BE FIELD MARKED WITH THE LOCATION OF THE OVERCURRENT PROTECTION DEVICE.	10	\rangle	(2)3"C,3#500kcmil AL,#500kcmil AL N,#2/0 AL G
Н.	CONTRACTOR TO PROVIDE GROUNDING AND BONDING AS REQUIRED FOR ELECTRICAL SYSTEMS. GROUNDING AND BONDING IS CONSIDERED MEANS	11	\rangle	(2)3"C,3#500kcmil AL,#500kcmil AL N
	AND METHODS OF CONSTRUCTION, AND SHOULD BE COMPLETED BY THE ELECTRICAL CONTRACTOR IN ACCORDANCE WITH NEC 250. GAS PIPING	12	\rangle	(4)3"C,3#500kcmil AL,#500kcmil AL N,#250kcmil AL G
	SYSTEMS MUST BE BONDED PER UTILITY PROVIDER'S INSTALLATION GUIDELINES WHERE REQUIRED.	13	\rangle	(4)3"C,3#500kcmil AL,#500kcmil AL N
		14	\rangle	(6)3-1/2"C,3#600kcmil AL,#600kcmil AL N,#400kcmil AL G
		15	\rangle	(6)3-1/2"C,3#600kcmil AL,#600kcmil AL N,#250kcmil AL G
		SIZING ME BELOW 10		OD: COMPACT AL 75°C 100A AND ABOVE, CU 75°C



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	H1 ROOM MOUNTING FED FROM	SURFACE SDH	VOLTS 208Y/120 BUS AMPS 600 NEUTRAL 100%	V 3P 4W	AIC T.B.D. MAIN BKR MLO LUGS FEEDTHRU
5	NOTE CKT CKT # BKR 1 20/1 3 20/1 5 20/1 7 20/1 9 20/1 11 20/1 13 20/1 15 20/1 15 20/1 17 20/1 19 20/1 19 20/1 21 20/1	LOAD KVA CIRCUIT DESC 0 SPACE 0 SPACE	CRIPTION # a 2 b 4 c 6 a 8 b 10 c 12 a 14 b 16 c 18	20/1 0 20/1 0 20/1 0 20/1 0 20/1 0 20/1 0 20/1 0 20/1 0 20/1 0 20/1 0 20/1 0 20/1 0 20/1 0 20/1 0 20/1 0 20/1 0	CIRCUIT DESCRIPTION SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE
	23 20/1 25 20/1 27 20/1 29 20/1 31 20/1 33 20/1 35 20/1 37 20/1 39 20/1 41 20/1 43 20/1 43 20/1 45 20/1 47 20/1 49 20/1	0SPACE	c 24 a 26 b 28 c 30 a 32 b 34 c 36 a 38 b 40 c 42 a 44 b 46 c 48 a 50	$\begin{array}{c ccccc} + & 20/1 & 0 \\ 5 & 20/1 & 0 \\ 3 & 20/1 & 0 \\ 2 & 20/1 & 0 \\ 2 & 20/1 & 0 \\ 4 & 20/1 & 0 \\ 5 & 20/1 & 0 \\ 3 & 20/1 & 0 \\ 2 & 20/1 & 0 \\ 4 & 20/1 & 0 \\ 5 & 20/1$	SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE
ш	5120/15320/15520/15720/15920/16120/16320/16520/16720/16920/17120/17320/17520/17720/17920/1	0SPACE	 c 54 a 56 b 58 c 60 a 62 b 64 c 66 a 68 b 70 c 72 a 74 b 76 c 78 a 80 	$\begin{array}{c cccc} + & 20/1 & 0 \\ 5 & 20/1 & 0 \\ 3 & 20/1 & 0 \\ 2 & 20/1 & 0 \\ 4 & 20/1 & 0 \\ 4 & 20/1 & 0 \\ 5 & 20/1 & 0 \\ 3 & 20/1 & 0 \\ 2 & 20/1 & 0 \\ 4 & 20/1 & 0 \\ 5 & 20/1 $	SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE
	81 20/1 83 20/1	0 SPACE 0 SPACE LUG LOAD: 0 KVA CONN CAL KVA KVA	.C A TO BA L(PI PI		CALC KVA 0 0 A 0.00% 0.00% 0.00%
	ROOM MOUNTING FED FROM NOTE CKT CKT # BKR 1 20/1 3 20/1 5 20/1 7 20/1 9 20/1	LOAD KVA CIRCUIT DESC 0 SPACE 0 SPACE 0 SPACE 0 SPACE 0 SPACE 0 SPACE	CRIPTION # a 2 b 4 c 6 a 8 b 10	T CKT LOAD BKR KVA 20/1 0 20/1 0 20/1 0 20/1 0 20/1 0 20/1 0	AIC T.B.D. MAIN BKR 100 LUGS STANDARD CIRCUIT DESCRIPTION SPACE SPACE SPACE SPACE SPACE SPACE
8	11 20/1 13 20/1 15 20/1 17 20/1 19 20/1 21 20/1 23 20/1	0 SPACE 0 SPACE 0 SPACE 0 SPACE 0 SPACE 0 SPACE 0 SPACE 0 SPACE 0 SPACE 0 SPACE	a 14 b 16 c 18 a 20 b 22 c 24 c 24	2 20/1 0 2 20/1 0 2 20/1 0 2 20/1 0 2 20/1 0 2 20/1 0 2 20/1 0 4 20/1 0 5 20/1 0 4 20/1 0 5 20/1 0 4 20/1 0 5 20/1 0 4 20/1 0 5 20/1 0 4 20/1 0 5 20/1 0 4 20/1 0 5 20/1 0 4 20/1 0 5 20/1 0 4 20/1 0 5 20/1 0 4 20 1 5 20 1 6 3 1 7 3 1 4 4 1	SPACE SPACE SPACE SPACE SPACE SPACE SPACE CALC KVA 0 0 0 A 0.00%
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 5 6	7	8	9	10 11	12	PARAMOUNT VORKS NWC KEMPER LANE & E. McMILLAN ST 2505 KEMPER LN CINCINNATI, OH 45206 WALNUT HILLS NEIGHBORHOOD
H 3 ROOM MOUNTING SURFACE VOLTS 208Y/120V 3P BUS AMPS 400 NEUTRAL 100% FED FROM H1 NEUTRAL 100% WATE CKT # BKR CAT 20/1 0 SPACE 0 2 20, 3 3 20/1 0 SPACE 0 2 20, 3 5 20/1 0 SPACE 0 2 20, 10 9 20/1 0 SPACE 0 8 20, 10 20, 10 SPACE 0 8 20, 11 20, 10 SPACE 0 14 20, 13 20, 11 0 SPACE 0 14 20, 14 20, 15 20, 10 SPACE 0 20 20, 20, 21 20, 20, 10 SPACE 0 20 20, 20, 21 20, 20, 10 SPACE 0 20 20, 20, 22 20, 23 20, 10 SPACE 0 22 20, 20, 23 20, 20, 10 SPACE 0 32 20, 33 20, 33 20, 10 SPACE 0 38	MAIN BKR MLO LUGS FEEDTHRU T LOAD K VA CIRCUIT DESCRIPTION 1 0 SPACE 1	1 20/1 0 SPACE 3 20/1 0 SPACE 5 20/1 0 SPACE 7 20/1 0 SPACE 9 20/1 0 SPACE 9 20/1 0 SPACE 11 20/1 0 SPACE 13 20/1 0 SPACE 13 20/1 0 SPACE 15 20/1 0 SPACE 17 20/1 0 SPACE 19 20/1 0 SPACE 21 20/1 0 SPACE 23 20/1 0 SPACE 25 20/1 0 SPACE 27 20/1 0 SPACE 31 20/1 0 SPACE 35 20/1 0 SPACE 37 20/1 0 SPACE 39 20/1 0 SPACE	b 4 20/1 c 6 20/1 a 8 20/1 b 10 20/1 c 12 20/1 c 12 20/1 a 14 20/1 b 16 20/1 c 18 20/1 c 18 20/1 c 18 20/1 a 20 20/1 b 22 20/1 c 24 20/1 c 24 20/1 c 30 20/1 d 32 20/1 b 34 20/1 c 36 20/1 d 38 20/1 c 38 20/1 d 38 20/1 c 36 20/1 d 38 20/1 d 20/1 d 38 20/1 d 39 20/1 d 39 20/1 d 39 20/1 d 30 20/1 d	MAIN BKR MLO LUGS FEEDTHRU LOAD KVA CIRCUIT DESCRIPTION 0 SPACE 0 SPAC		UDD Set 11.03.2023
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	5	6	7	8	9	10		12	PARAMOUNT BARAMO	
	NG SURF OM H1	ACE BUS AMPS 400	MAIN BKR MLO	MOUNTING SURFACE FED FROM H3	BUS AMPS	200 MAIN	BKR MLO			
	LOAI KVA 0			CKT CKT LOAD # BKR KVA CIRCU		a 2 20/1 0 SPACE	DESCRIPTION			
	0	SPACE c 6 20/1 SPACE a 8 20/1 SPACE b 10 20/1 SPACE c 12 20/1 SPACE a 14 20/1 SPACE b 16 20/1 SPACE c 18 20/1 SPACE c 18 20/1 SPACE b 20 20/1 SPACE c 18 20/1 SPACE c 24 20/1 SPACE a 26 20/1 SPACE a 26 20/1 SPACE b 28 20/1	0SPACE0SPACE0SPACE0SPACE0SPACE0SPACE0SPACE0SPACE0SPACE0SPACE0SPACE0SPACE0SPACE0SPACE0SPACE0SPACE0SPACE0SPACE	3 20/1 0 SPACI 5 20/1 0 SPACI 7 20/1 0 SPACI 9 20/1 0 SPACI 11 20/1 0 SPACI 13 20/1 0 SPACI 15 20/1 0 SPACI 17 20/1 0 SPACI 19 20/1 0 SPACI 21 20/1 0 SPACI 23 20/1 0 SPACI 25 20/1 0 SPACI 27 20/1 0 SPACI		c 6 20/1 0 SPACE a 8 20/1 0 SPACE b 10 20/1 0 SPACE c 12 20/1 0 SPACE				
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		CONN CALC KVA KVA TOTAL LOA BALANCEE LOAD PHASE A	AD 0 0.3-PHASE 0 A 0.00%		CALC KVA	TOTAL LOAD0BALANCED 3-PHASE LOAD0 APHASE A0.009	%			
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M(FE	DOM DUNTING D FROM DTE	Flush SDB		VOLTS 2081 BUS AMPS NEUTRAL 10	1200		3P 4W		AIC T.B.D. MAIN BKR MLO LUGS STANDARD
CKT #	CKT BKR	LOAD KVA		TION	Cł #		CKT SKR	LOAD KVA	CIRCUIT DESCRIPTION
<u>"</u> 1	200/3	0	PANEL B-1		a 2		20/1	0	SPACE
3					b 4		20/1	0	SPACE
5 7	200/3	0	PANEL B-2		c 6 a 8		20/1 20/1	0	SPACE SPACE
9					b 10) 2	20/1	0	SPACE
11 13	200/3	0	PANEL B-3		c 1: a 1	- t	20/1 20/1	0	SPACE SPACE
15					b 10	5 2	20/1	0	SPACE
17 19	20/1	0	SPACE		c 18 a 20		20/1 20/1	0	SPACE SPACE
21	20/1	0	SPACE		b 2	2 2	20/1	0	SPACE
23 25	20/1 20/1	0	SPACE SPACE		c 2 a 2	•	20/1 20/1	0	SPACE SPACE
27	20/1	0	SPACE		b 2	B 2	20/1	0	SPACE
29 31	20/1 20/1	0	SPACE SPACE		c 3	- + -	20/1 20/1	0	SPACE SPACE
33	20/1	0	SPACE		b 3	4 2	20/1	0	SPACE
35 37	20/1 20/1	0	SPACE SPACE		c 3		20/1 20/1	0	SPACE SPACE
39	20/1	0	SPACE		b 4	5 2	20/1	0	SPACE
41	20/1	0	SPACE		c 4	2 2	20/1	0	SPACE
			CONN CALC						CALC
		_	KVA KVA			-			KVA
							L LOAD NCED 3-F	PHASE	0
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		ELLIGU		VOLTS 2081	۴ ۴	HAS	E B E C		0.00% 0.00% AIC T.B.D.
M(FE	DUNTING D FROM	FLUSH SDA		VOLTS 2081 BUS AMPS NEUTRAL 10	۶ ۲ ۲/120 600	HAS	E B E C		0.00% 0.00%
MC FE NC CKT	DUNTING		CIRCUIT DESCRIP	BUS AMPS NEUTRAL 10	۲/120 600 00%		E B E C	LOAD	0.00% 0.00% AIC T.B.D. MAIN BKR MLO
M(FE N(CKT # 1	DUNTING D FROM DTE CKT BKR 20/1	SDA LOAD KVA 0	SPACE	BUS AMPS NEUTRAL 10	r/120 600 00%		3P 4W	KVA 0	0.00% 0.00% AIC T.B.D. MAIN BKR MLO LUGS STANDARD CIRCUIT DESCRIPTION SPACE
MC FE NC CKT # 1 3	DUNTING D FROM DTE CKT BKR 20/1 20/1	SDA LOAD KVA 0 0	SPACE SPACE	BUS AMPS NEUTRAL 10	F F 600 00% Cł 4 a 2 b 4		CKT 3P 4W CKT 3KR 20/1 20/1	КVА 0 0	0.00% 0.00% AIC T.B.D. MAIN BKR MLO LUGS STANDARD CIRCUIT DESCRIPTION SPACE SPACE
M(FE N(CKT # 1 3 5 7	DUNTING D FROM DTE CKT BKR 20/1 20/1 20/1 20/1 20/1	SDA LOAD KVA 0 0 0 0 0	SPACE SPACE SPACE SPACE	BUS AMPS NEUTRAL 10	F F 600 00% a 2 b 4 c 6 a 8		CKT 3P 4W CKT 3R 4W 20/1 20/1 20/1 20/1 20/1	KVA 0 0 0 0 0	0.00% 0.00% AIC T.B.D. MAIN BKR MLO LUGS STANDARD CIRCUIT DESCRIPTION SPACE SPACE SPACE SPACE SPACE
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PHASE A 0.00% PHASE B 0.00% PHASE C 0.00%	PHAGE A PHAGE C000% 000% 000% \overrightarrow{B} - 3VOLTS 208Y/120V 3P 4W PHAGE CAIC T.B.D. $\overrightarrow{MOUNTING}$ FLUSH FED FROM MOP-BVOLTS 208Y/120V 3P 4W BUS AMPS 200 NEUTRAL 1007AIC T.B.D. $\overrightarrow{MOUNTING}$ FLUSH FED FROM MOP-BVOLTS 208Y/120V 3P 4W BUS AMPS 200 NEUTRAL 1007AIC T.B.D. MAIN BKR MLD LUGS STANDARD \overrightarrow{MT} \overrightarrow{CKT} \overrightarrow{LOAD} CIRCUIT DESCRIPTION \overrightarrow{W} \overrightarrow{KVA} $\overrightarrow{CIRCUIT}$ DESCRIPTION \overrightarrow{T} $\overrightarrow{20/1}$ 0SPACE SPACE02 $20/1$ 0SPACE320/10SPACE SPACE02 $20/1$ 0SPACE320/10SPACE SPACE02 $20/1$ 0SPACE320/10SPACE SPACE01 $20/1$ 0SPACE320/10SPACE SPACE01 $20/1$ 0SPACE1 $20/1$ 0SPACE 	DD Set 1103.2023 I I <tr< td=""></tr<>
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MC3			MC5			
ROOM MOUNTING FLUSH FED FROM SD-1 NOTE	VOLTS 208Y/120V 3P 4W BUS AMPS 2000 NEUTRAL 100%	AIC T .B.D. MAIN BKR MLO LUGS FEEDTHRU	ROOM MOUNTING FLUSH FED FROM MC3 NOTE	VOLTS 208Y/120V 3P 4W BUS AMPS 2000 NEUTRAL 100%	AIC T.B.D. MAIN BKR MLO LUGS FEEDTHRU	
NOTE CKT BREAKER # TRIP/POLES 1 150/2 PANEL 200	RIPTION A B C 22.7 19	FEEDER RACEWAY AND CONDUCTORS	CKT BREAKER # TRIP/POLES 1 150/2 PANEL 500		FEEDER RACEWAY AND CONDUCTORS 1-1/2"C,2#3/0 AL,#3/0 AL N,#4 AL G	
2 150/2 PANEL 201 3 150/2 PANEL 202 4 150/2 PANEL 213 5 150/2 PANEL 214 6 150/2 PANEL 300 7 150/2 PANEL 301 8 150/2 PANEL 302 9 150/2 PANEL 303 10 150/2 PANEL 303 10 150/2 PANEL 304 11 150/2 PANEL 305 12 150/2 PANEL 306 13 150/2 PANEL 307 14 150/2 PANEL 308 15 150/2 PANEL 309 16 150/2 PANEL 310 17 150/2 PANEL 311 18 150/2 PANEL 313 20 150/2 PANEL 313 20 150/2 PANEL 400 22 150/2 PANEL 401 23 150/2 PANEL 402 24 150/2 PANEL 403 25 150/2 PANEL 404 26 150/2	$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	7 $1-1/2"C,2#3/0$ AL,#3/0 AL N,#4 AL G 1-1/2"C,2#3/0 AL,#3/0 AL N,	2 150/2 PANEL 501 3 150/2 PANEL 502 4 150/2 PANEL 503 5 150/2 PANEL 504 6 150/2 PANEL 505 7 150/2 PANEL 506 8 150/2 PANEL 507 9 150/2 PANEL 508 10 150/2 PANEL 509 11 150/2 PANEL 510 12 150/2 PANEL 511 13 150/2 PANEL 512 14 150/2 PANEL 513 15 150/2 PANEL 601 18 150/2 PANEL 602 19 150/2 PANEL 603 20 150/2 PANEL 605 22 150/2 PANEL 606 23 150/2 PANEL 606 23 150/2 PANEL 606 23 150/2 PANEL 608 25 150/2 PANEL 610 27 150/2 PANEL 611 <	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	1-1/2"C,2#3/0 AL,#3/0 AL N,#4 AL G 1-1/2"C,2#3/0 AL,#3/0 AL N,#	DD Set
	21.5 19.3 22.7 19 AD: METER CENTER MC5 404 409 402 NNECTED KVA BY PHASE 878 892 865	2		KVA 68.9 22,950 SF CONNECTED (3 VA/SF)		
OPTIONAL MULTIFAMILY DWELLING CA	ALCULATION (NEC 220.84) KVA 49,825 SF CONNECTED	KVA	LAUNDRY 4 APPLIANCES 3 ELECTRIC COOKING 3	90DWELLING UN45DEMAND FAC392CALCULATED306BALANCED 3-1	ACTOR (33%)	
SMALL-APPLIANCE LAUNDRY APPLIANCES ELECTRIC COOKING	195 DWELLING U 97.5 DEMAND FA 850 CALCULATE	FACTOR (23%)		300 (100%) 300 (0%)		
HEATING COOLING	650 (100%) 650 (0%)					
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						Shared Success T Collaboration and E 515 Monmouth Street, S Newport, KY 41071 (856 MEP Consulting Services Copyright © 201 THIS DOCUMENT IS THE PRODUCT PROPERTY OF ENGINEERED BUILD
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CKT #	CKT BKR	LOAD KVA	CIRCUIT	DESCR	IPTION		CKT #	CK BK		LO, KV,		CIRC	UIT
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5	6 7 8 9 10 11	12 PARAMOUNT VORKS NWC KEMPER LANE & E. McMILLAN ST 2505 KEMPER LN CINCINNATI, OH 45206 WALNUT HILLS NEIGHBORHOOD
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T DESC	RIPTION
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8 9 10		12		ARAMOUN WORKS NWC KEMPER LANE & E. McMILLAN S 2505 KEMPER LN CINCINNATI, OH 45206 WALNUT HILLS NEIGHBORHOOD	
TYPE 2BROOMVOLTS 208/120V 2P 3WMOUNTING FLUSHBUS AMPS 150FED FROMNEUTRAL 100%	AIC T.B.D. MAIN BKR MLO LUGS STANDARD				
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			DD Se	t	11.03.2023
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			THIS PROF NEIT CC SPE	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 S DOCUMENT IS THE PRODUCT AND EXCLUS PERTY OF ENGINEERED BUILDING SYSTEMS HER THE DOCUMENT NOR THE INFORMATIC DISTAINS MAY BE USED FOR OTHER THAN TH ECIFIC PURPOSE FOR WHICH IT WAS PREPAR ITHOUT WRITTEN CONSENT OF ENGINEERE BUILDING SYSTEMS, INC.	SIVE , INC. NIT HE RED
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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

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- 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. WARRANT
- 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.

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10. SUBMITTALS

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- 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 AREAS 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 SYSTEM(S) 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 ENCASEMENT 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.

- 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

22. CONDUCTORS AND TERMINATIONS

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- 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 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.
- 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, 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.
- 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 UL-LISTED 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 SLEEVED FOR TRANSFORMER TAP COMPARTMENTS. b. ALL APPLICABLE MATERIAL SHALL CONFORM TO NEMA STANDARDS. ALL APPLICABLE MATERIAL SHALL BEAR ULLABELS.
- 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 . 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 3RR. 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 L 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 PENETRATIC GENERAL CONTRAC

31. GROUNDING AND BON a. PROVIDE GROUND ACCORDANCE WITH

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b. ALL MAJOR PARTS LIMITED TO, SEC PANELBOARD ENCL PROPERLY GROUND

LOCKNUTS AND OT CONTINUITY. 32. LIGHTING CONTACTOR

a. PROVIDE LIGHTING 12-POLE LIGHTING (33. MULTI-TENANT METER

> a. PROVIDE METER C SPECIFIED HEREIN. MAIN BREAKERS A INSTALLED FOR EA EATON, SQUARE D. MANUFACTURE AS CENTERS SHALL BE CONFIGURATION

END-MAIN/CENTER-CONTRACTOR. ALL METER CENTERS FAULT CURRENT. 34. PANELBOARDS

> a. PROVIDE BRANCH DRAWINGS AND AS BOLTED, THERMAL OR MAIN BREAKER SQUARE D, GE BY A HOUSING UNLESS COMPLETE WITH / TYPED DIRECTORY

MULTIPLE POLE BRE PANELS AND BREAK FAULT CURRENT. 35. LIGHTING a. PROVIDE A NEW

> OPERATIONAL AND REQUIREMENTS. CL UTILIZING MANUFAC SOLUTIONS. ALL CONTRACTOR AS CONTRACTOR SH TRANSFORMERS, NECESSARY FOR A

b. WHERE DIMMERS CONTRACTOR TO FIXTURE SOURCE ZONE. PROVIDE A LOAD REQUIREMEN

36. GENERATORS a. GENERATORS. TRA

START-UP/OPERATI REQUIREMENTS FO STAND-BY, EMERGE REQUIREMENTS W CONDUIT OPENING PROVIDE ALL ANC BATTERY CHARGE GENERATOR SUCH BUILDING OPENING COORDINATE GENE WITH ACTUAL FOL

WHERE THE GENER DERIVED SYST BUILDINGS/STRUCT AND USE 4-POLE TR

37. TELEPHONE SYSTEM a. TELEPHONE WIRIN SYSTEM REQUIRE PRIOR TO START

SHALL PROVIDE PL LOCATION TO ABOVE 38. SECURITY SYSTEM NO

a. SECURITY WIRING A REQUIREMENTS AN START OF CONSTRU EQUIPMENT AND RE

39. DATA/POS/A-V/SYSTEM a. DATA, POS AND/OR VERIFY SYSTEM OWNER PRIOR

CONTRACTOR SHAL EACH DEVICE LOCA 40. FIRE ALARM SYSTEM

a. FIRE ALARM SYS CONTRACTOR SHAL TO AUTHORITIES. F DESIGN CRITERIA. **REVIEW PRIOR TO S** ITEMS INCLUDING MODULES, RETURN-

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REMOTE ANNUNCIA ARCHITECT AND AU

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10	11	12	PARAMOUNT BUDDEN BUDDEN
ON AND PATCHING WORK. COORDIN TOR. IDING FOR ELECTRICAL SYSTEMS AND EQU ING AND BONDING FOR ELECTRICAL SE I NEC ARTICLE 250. S NOT CARRYING CURRENT, INCLUDING CONDARY FEEDER CIRCUIT, EQUIPME LOSURES, PULL AND JUNCTION BOXES, DED. METALLIC RACEWAYS SHALL UTILIZI HER FITTINGS AS REQUIRED TO PROVIDE RS CONTACTORS AS INDICATED ON DRAWIN CONTACTOR IN NEMA 1 ENCLOSURE. CENTERS ENTERS(S) AS SHOWN ON THE DRAWING METER CENTERS SHALL HAVE MAIN LUGS S REQUIRED, AND SHALL HAVE BRANCH ACH METER SOCKET. METER CENTERS GE BY ABB, OR EQUAL, AND SHALL BE OF LOAD CENTERS OR PANELBOARDS SERVEI ENCLOSED NEMA 1, NEMA 3R AS REQUIRI (NUMBER OF METERS PER MAIN, ETC. SHALL BE DETERMIN BUSSING MUST BE RATED FOR THE LOADS SHALL BE RATED TO WITHSTAND THE A CIRCUIT PANELBOARD(S) AS SHOWN S SPECIFIED HEREIN. PANELBOARDS SHALL E AND MAGNETIC BREAKERS WITH MAIN LU S AS REQUIRED. PANELBOARDS SHALL E ABB, OR EQUAL, AND BE ENCLOSED IN NEM AND MAGNETIC BREAKERS WITH MAIN LU S AS REQUIRED. PANELBOARDS SHALL E ABB, OR EQUAL, AND BE ENCLOSED IN NEM NOTED OTHERWISE. ENCLOSURE(S) OF A HINGED DOOR, CYLINDER LOCK, AND J A HINGED DOOR, CYLINDER LOCK, AND J EAKERS SHALL HAVE A COMMON TRIP HAN	IIPMENT ERVICE IN BUT NOT ENT AND SHALL BE E DOUBLE E DOUBLE E GROUND NGS. 30A, NGS. 30A, S AND AS F ONLY OR BREAKER SHALL BE THE SAME D. METER ED. FINAL SECTION, NED BY S SERVED. AVAILABLE ON THE ALL HAVE JGS ONLY BE EATON, MA 1 TYPE SHALL BE A NEATLY OOR. ALL		
KERS SHALL BE RATED TO WITHSTAND A V LIGHTING SYSTEM COMPLETE AND IN CONFORMANCE WITH CODE AND U LEAN ALL FIXTURES AT TIME OF JOB CO CTURERS APPROVED OR RECOMMENDED FIXTURES AND LAMPS ARE PROVIDED S SCHEDULED UNLESS NOTED OT IALL FURNISH ALL BOXES, MOUNTIN CONTROLLERS, AND OTHER COM COMPLETE AND FULLY FUNCTIONAL INSTAL AND/OR DIMMING SYSTEMS ARE F FURNISH DIMMERS THAT ARE COMPATI AND RATED FOR THE WATTAGE OF THE DDITIONAL DIMMERS AS REQUIRED TO MI	AVAILABLE D FULLY L LISTING MPLETION CLEANING BY THIS HERWISE. NG KITS, IPONENTS LLATION. REQUIRED, BLE WITH DIMMING		DD Set 11.03.2023 Image: Constraint of the set of th
TS. NSFER SWITCHES, FUEL CAPACITY/RUN-TI ON REQUIREMENTS SHALL CONFORM DR THEIR USE - STAND-BY, LEGALLY F ENCY, ETC. CONTACTOR SHALL COORDII VITH GENERATOR SUPPLIER AND LOC SS PER MANUFACTURER'S INSTALLATION CILLARY WIRING FOR CONTROL, COMMU E, BLOCK HEATER, ETC. INSTALL F I THAT REQUIRED CLEARANCES FROM B SS, AND OTHER OBSTRUCTIONS ARE MA ERATOR CIRCUIT BREAKER/FEEDER REQUI UIPMENT BEING CONNECTED - FIRE PL RATOR IS REQUIRED TO OPERATE AS A SEF TEM (GENERATOR SERVING URES FOR EXAMPLE) PROVIDE PROPER GF RANSFER SWITCHES AS REQUIRED BY NEC	TO THE REQUIRED NATE PAD CATE ALL I GUIDES. NICATION, PAD AND UILDINGS, INTAINED. IREMENTS JMP, ETC. PARATELY MULTIPLE ROUNDING		Image: Constraint of the second se
LL PROVIDE PLASTER RING AND PULL STR	H OWNER ITRACTOR CH DEVICE Y SYSTEM PRIOR TO HEAD-END QUIRED. Y OWNER. DNS WITH ECTRICAL		No. Issuances / Revisions / Submissions Date PR-10535 ENGINEERED BUILDING SYSTEMS INC. Shared Success Through Collaboration and Efficiency
TION TO ABOVE ACCESSIBLE CEILING. STEM TO BE DESIGN-BUILD BY CON LL PROVIDE ALL REQUIRED DRAWINGS AN REFER TO ARCHITECT'S CODE SHEET FOR F SUBMIT DRAWINGS TO OWNER/ARCHIT SUBMITTING TO AUTHORITIES. PROVIDE F BUT NOT LIMITED TO RELAY MODULES, -AIR DETECTORS, ELEVATOR RECALL, ETC. ATOR PANEL(S) AT LOCATION(S) APPR ITHORITIES.	D SUBMIT RELEVANT ECT FOR REQUIRED MONITOR PROVIDE		515 Monmouth Street, Suite 201 Newport, KY 41071 (859) 261-0585 MEP Consulting Services, Inc. in OH Copyright © 2015 THIS DOCUMENT IS THE PRODUCT AND EXCLUSIVE PROPERTY OF ENGINEERED BUILDING SYSTEMS, INC. NEITHER THE 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.
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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

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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

6. WARRANTY

ELECTRICAL WORK.

- 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, FTC 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

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- 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 FOUIPMENT 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 AREAS 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 SYSTEM(S) 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 ENCASEMENT 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 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.
- 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, 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.
- 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 UL-LISTED 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.
- TRANSFORMERS
- a. DRY TYPE TRANSFORMERS 15KVA TO 500 KVA 600 VOLTS OR LESS, SINGLE AND THREE- PHASE. CONCRETE PADS FOR TRANSFORMERS, PROPERLY SLEEVED FOR TRANSFORMER TAP COMPARTMENTS. b. ALL APPLICABLE MATERIAL SHALL CONFORM TO NEMA STANDARDS.
- ALL APPLICABLE MATERIAL SHALL BEAR ULLABELS. 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 PROVIDE LOCKABLE BREAKERS FOR FEEDERS SUPPLYING
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- a. PROVIDE PERMANENT NAMEPLATE LABELING ON ALL DISCONNECTS. INCLUDE LOAD SERVED, VOLTAGE, PHASE, HORSEPOWER, FUSE SIZE, AND TYPE.
- 30. MOUNTING

29. NAMEPLATES

a. MOUNT INDEPENDENT OF THE MECHANICAL UNIT HOUSING UNLESS SPECIFICALLY ACCEPTED BY THE LOCAL CODE AUTHORITY. PROVIDE UNISTRUT SUPPORT CHANNELS MOUNTED IN COORDINATION WITH

GENERAL CONTRACTOR

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31. GROUNDING AND BONDING FOR ELECTRICAL SYSTEMS AND EQUIPMENT a. PROVIDE GROUNDING AND BONDING FOR ELECTRICAL SERVICE IN ACCORDANCE WITH NEC ARTICLE 250.

- 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

FAULT CURRENT. 34. PANELBOARDS

FAULT CURRENT. 35. LIGHTING

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. CONTACTOR 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 FOUIPMENT 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
- 38. SECURITY SYSTEM NOTES
- 39. DATA/POS/A-V/SYSTEM NOTES
- 40. FIRE ALARM SYSTEM

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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

a. PROVIDE METER CENTERS(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-MAIN, ETC. SHALL BE DETERMINED BY CONTRACTOR. ALL BUSSING MUST BE RATED FOR THE LOADS SERVED. METER CENTERS SHALL BE RATED TO WITHSTAND THE AVAILABLE

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

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

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.

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.

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.

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.

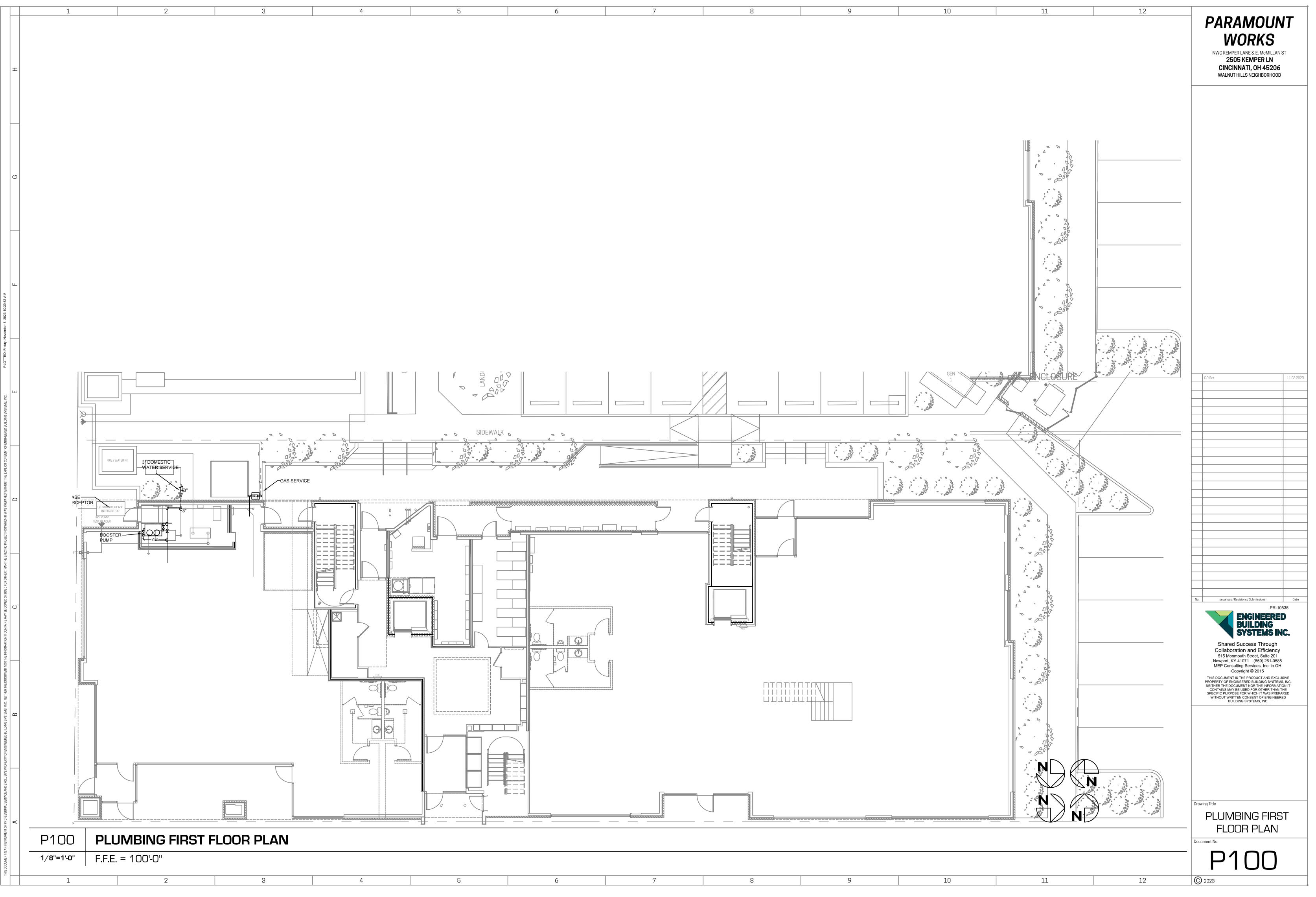
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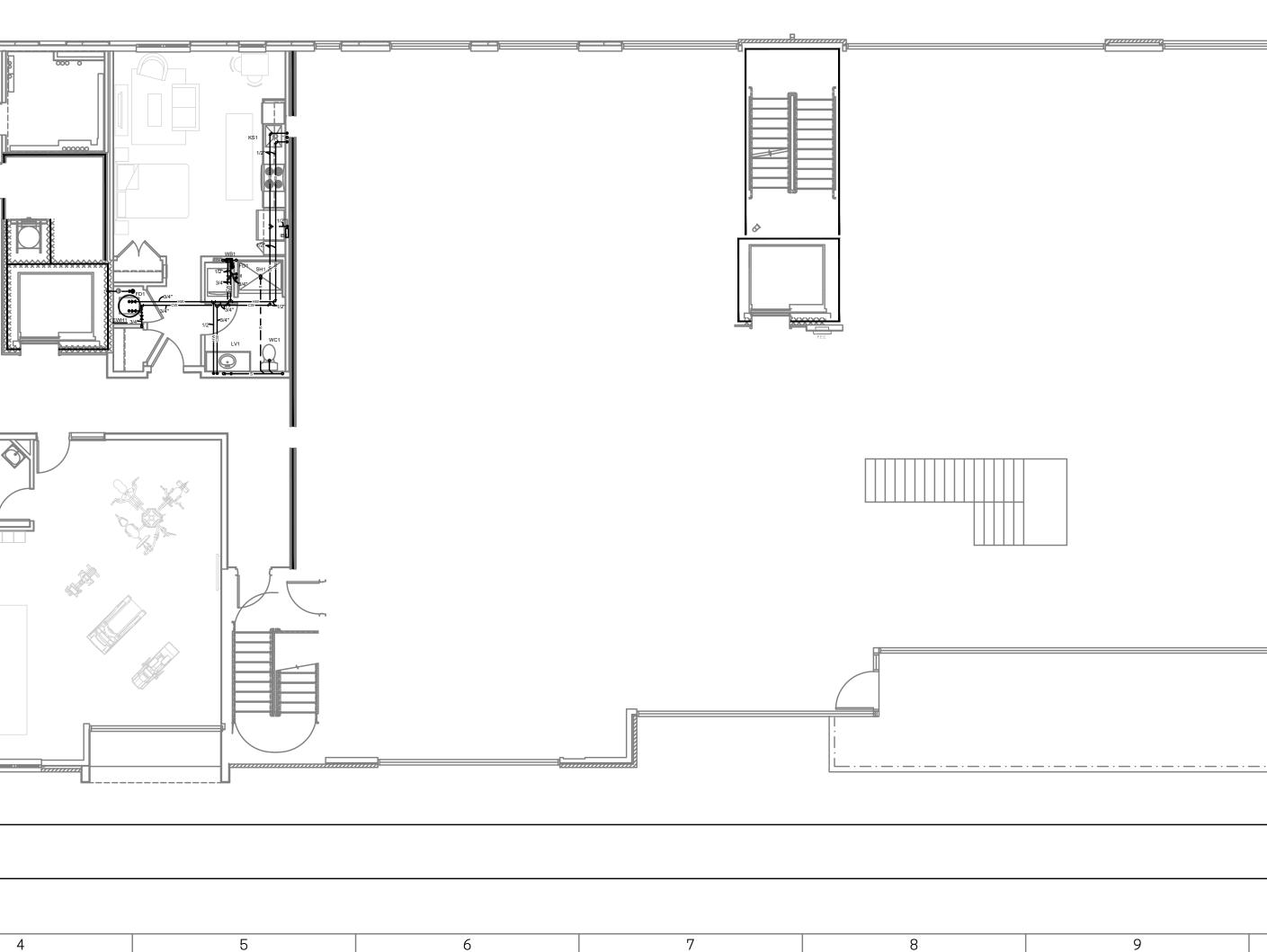
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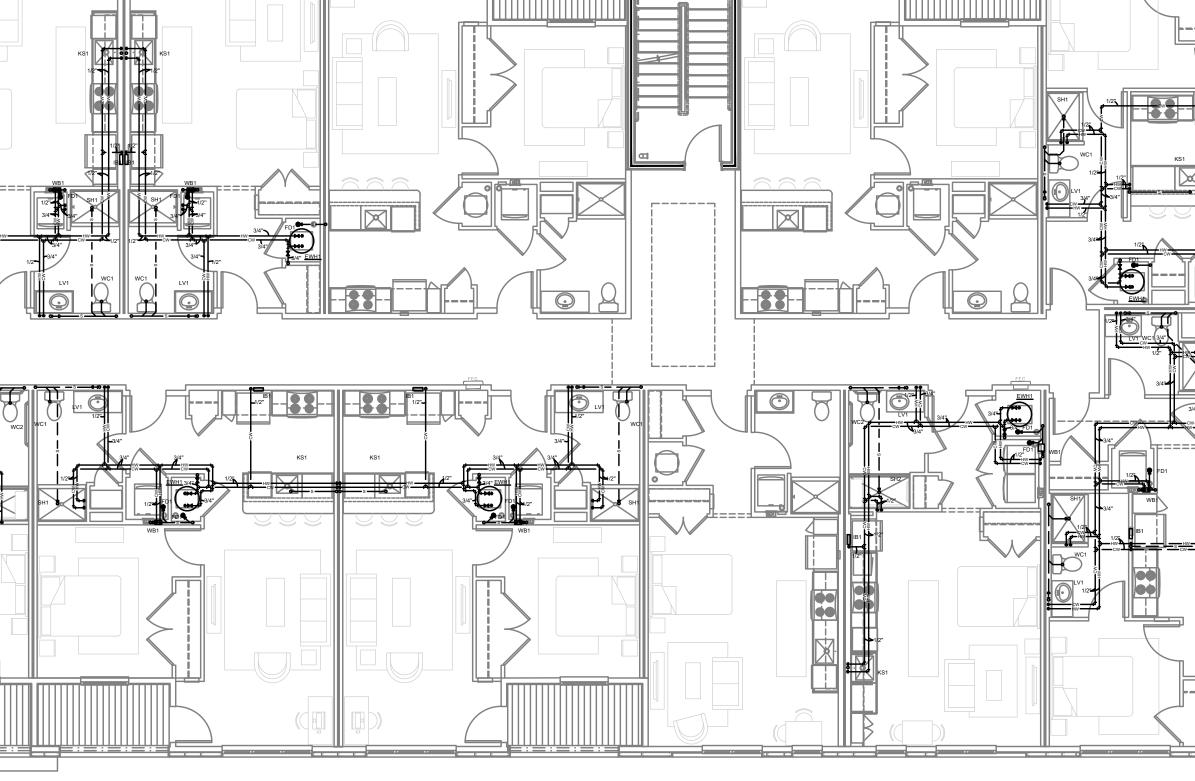
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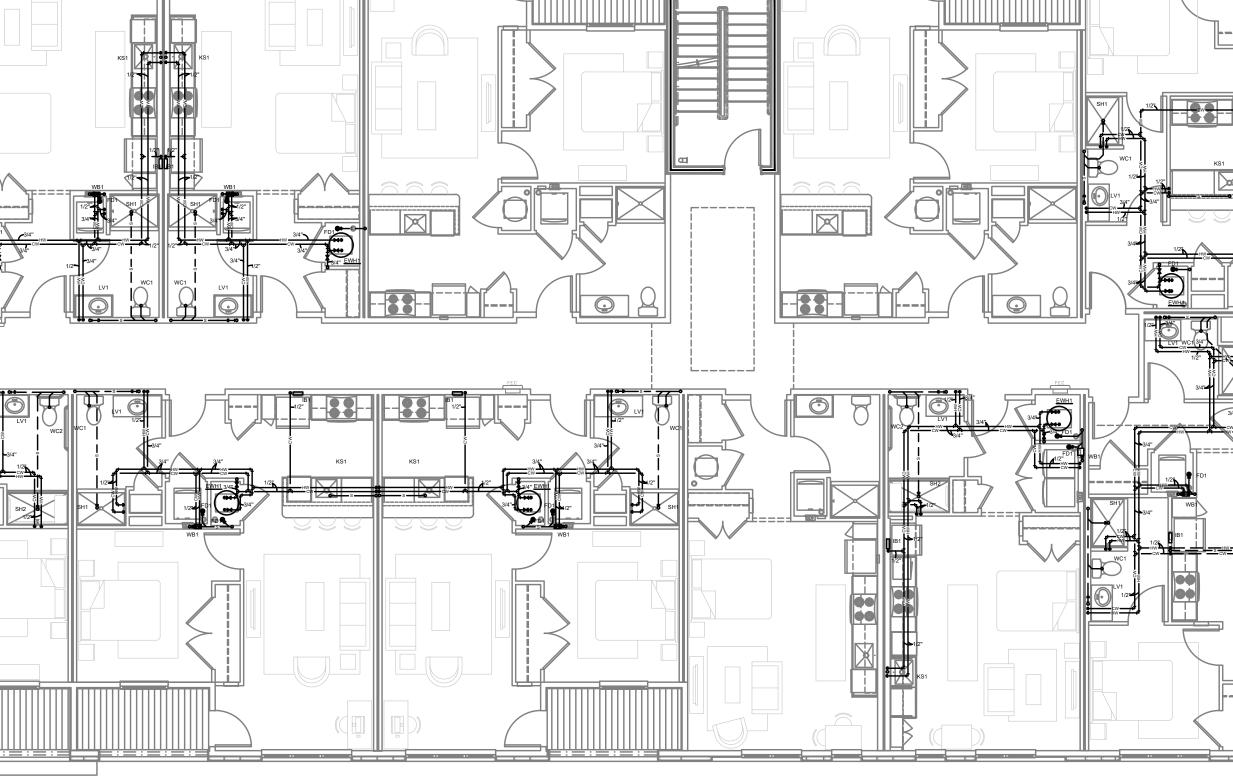
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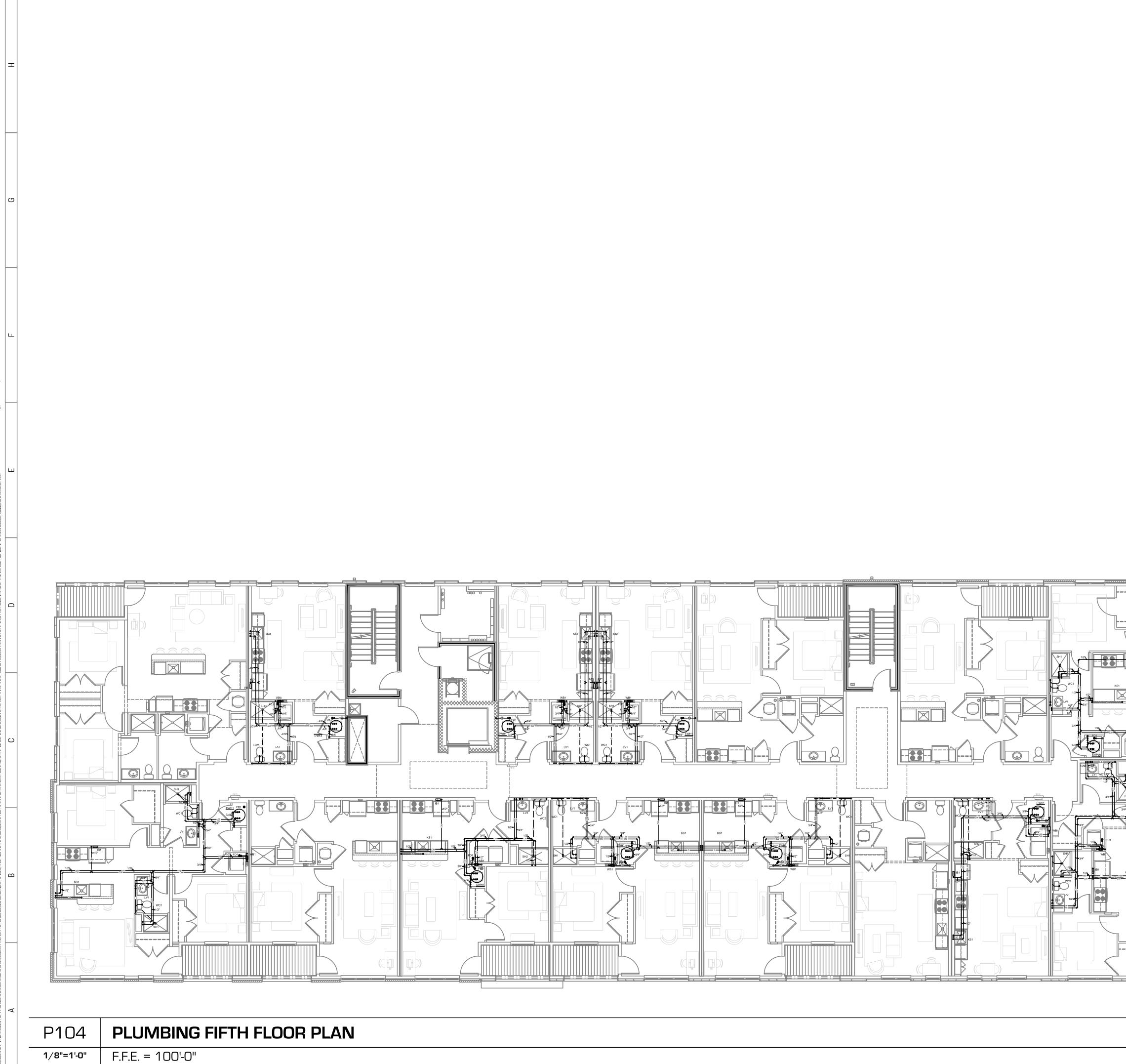
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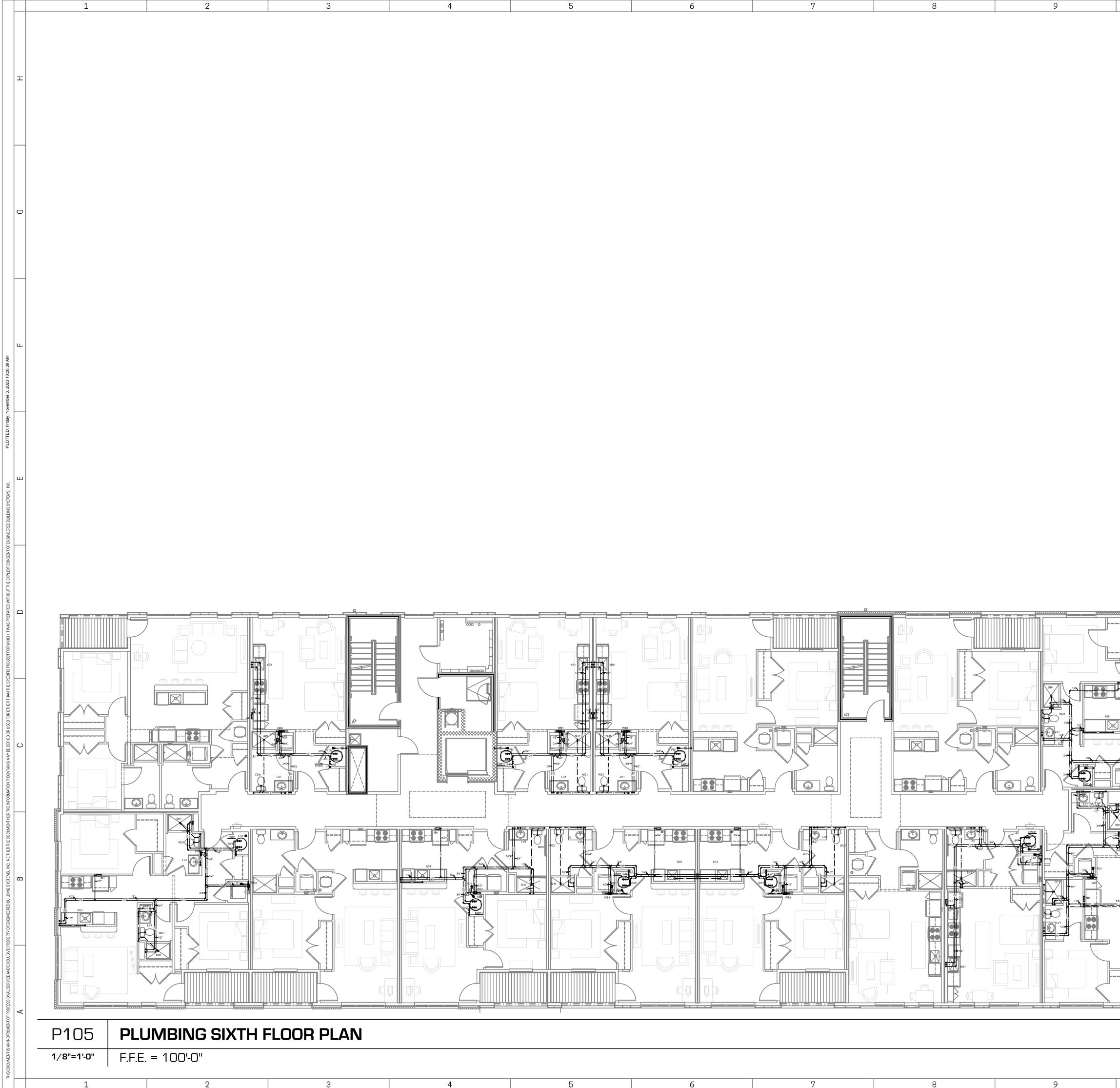
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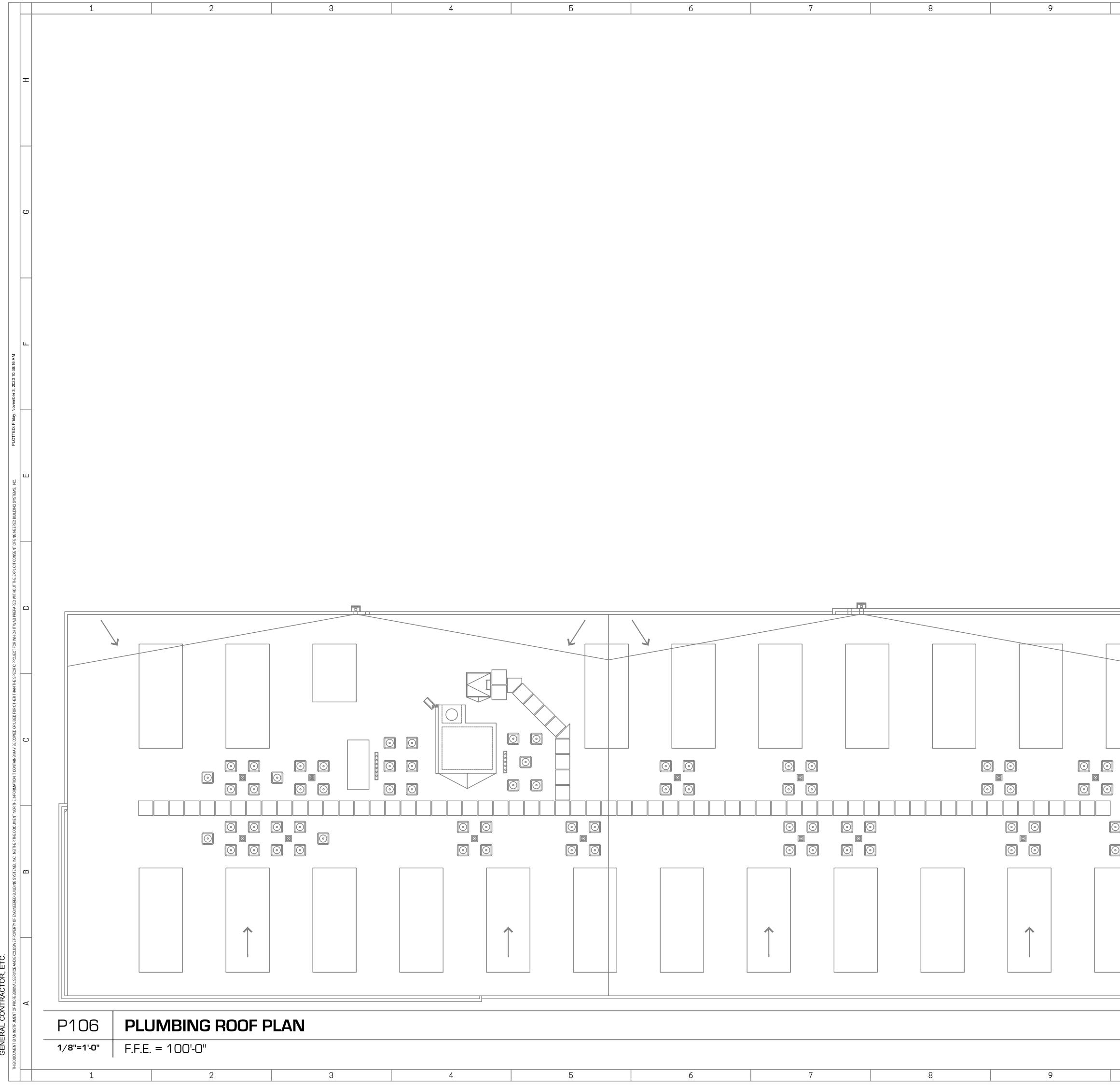
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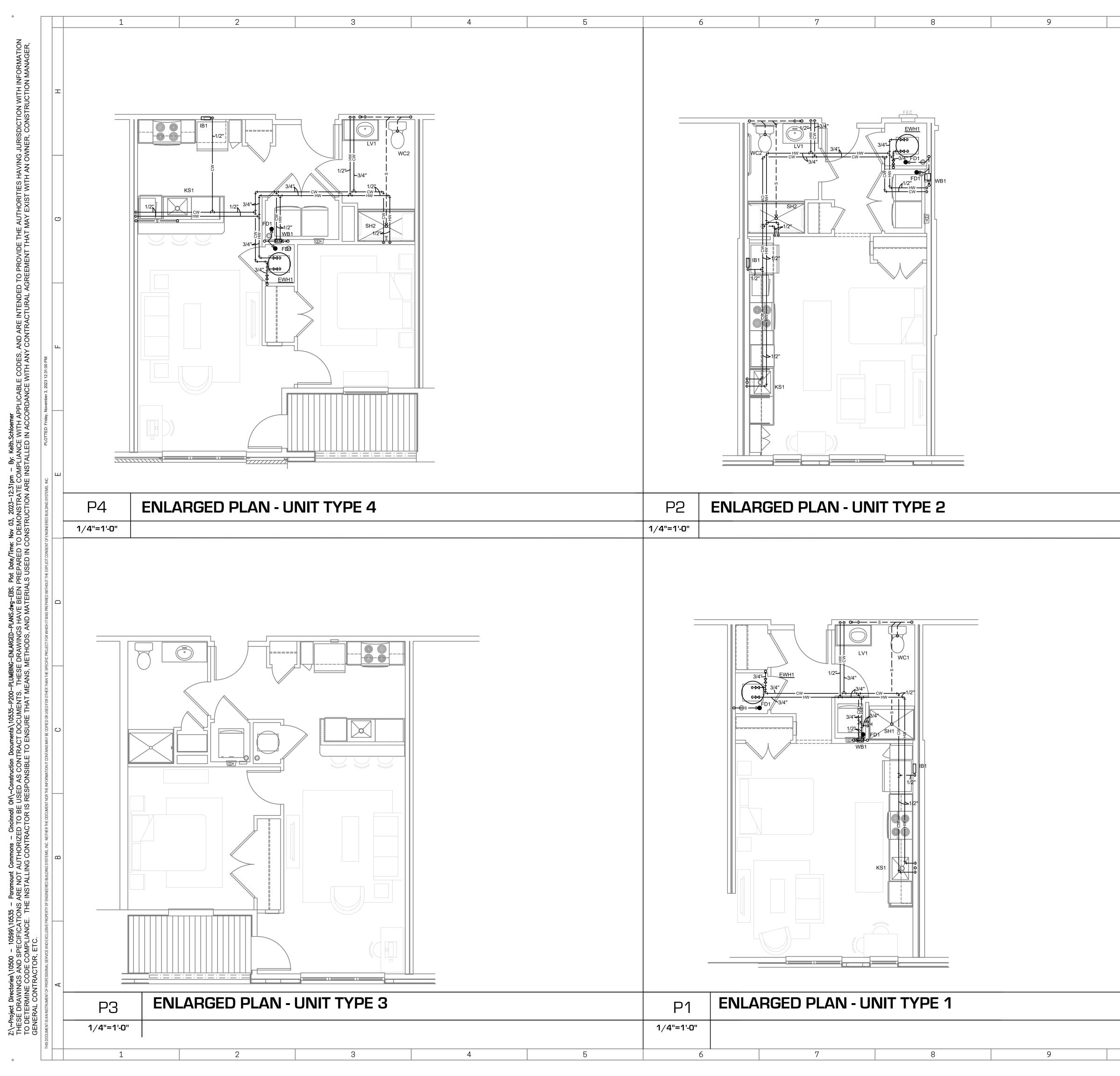
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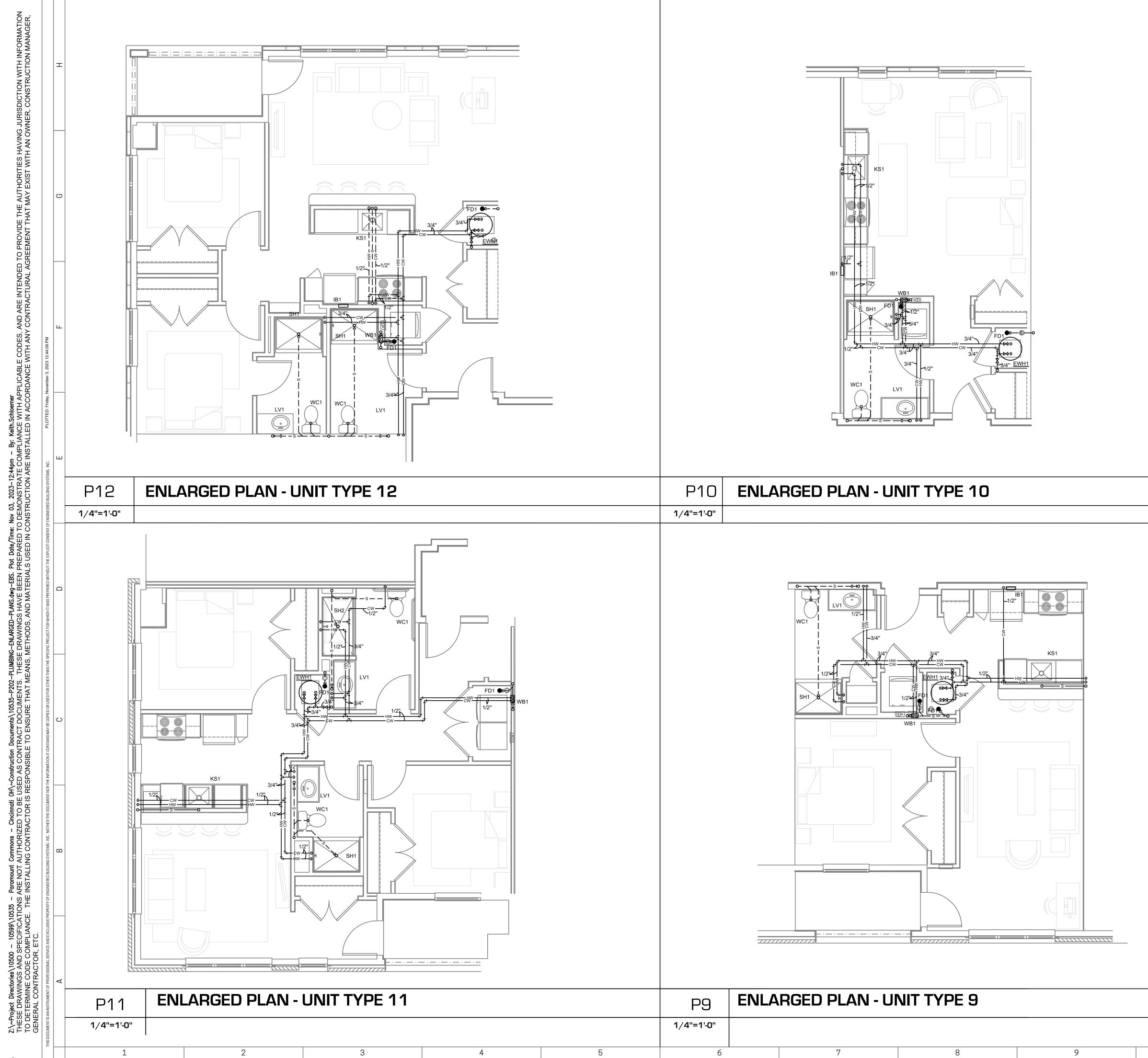


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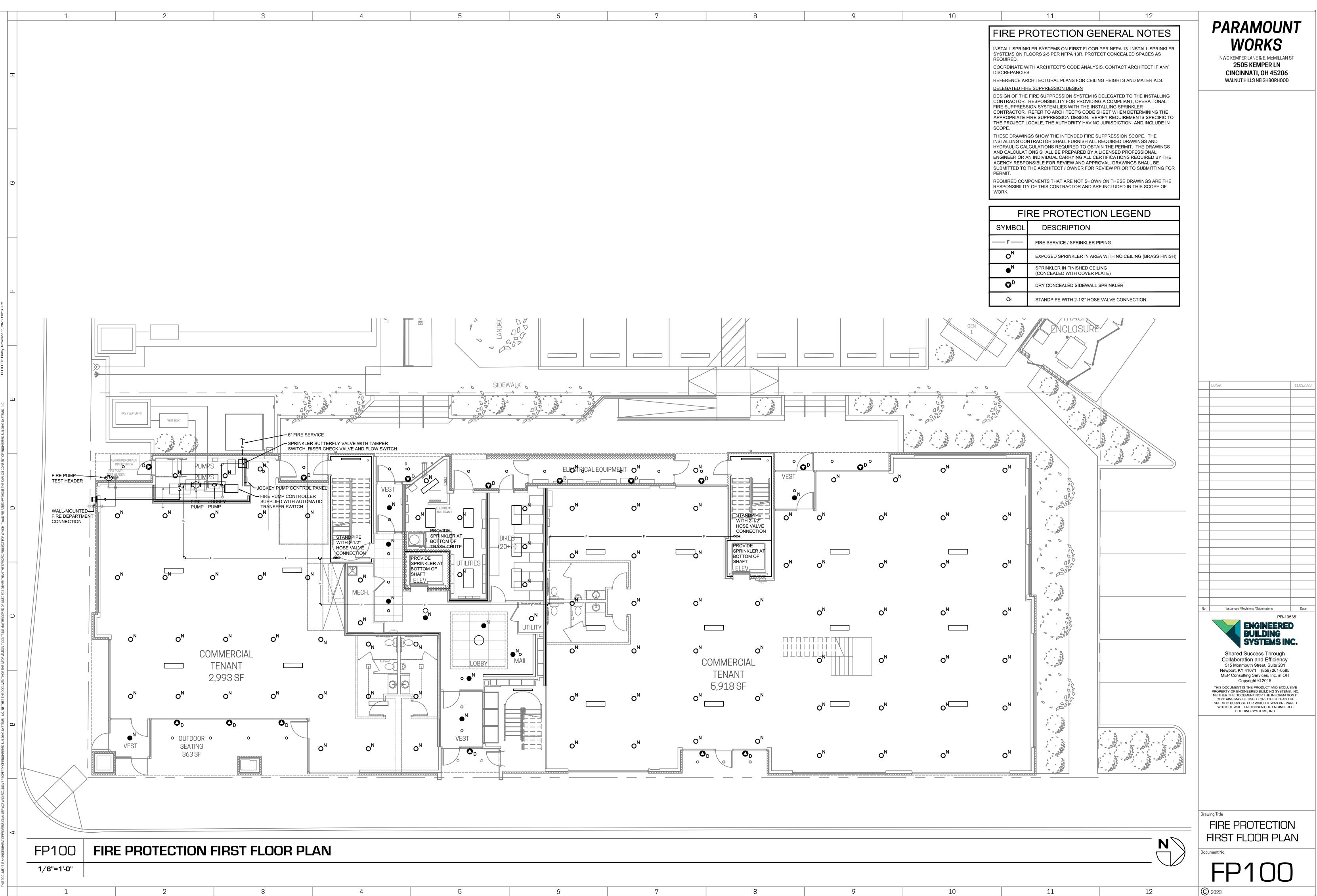
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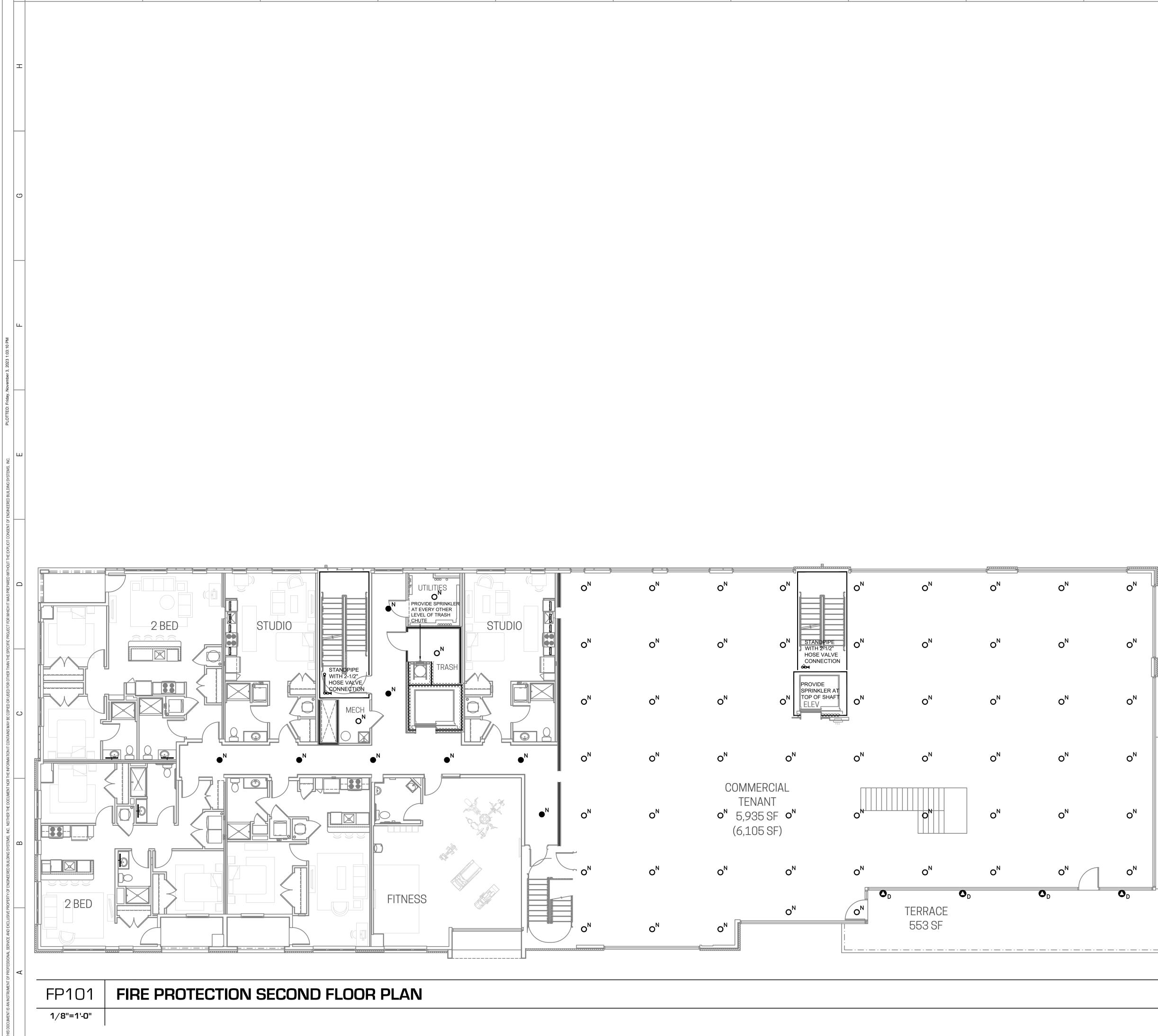
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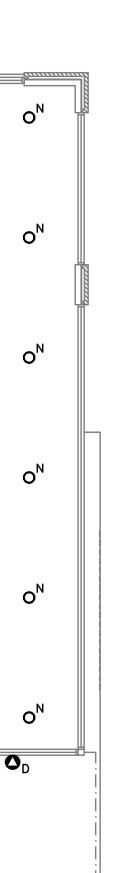
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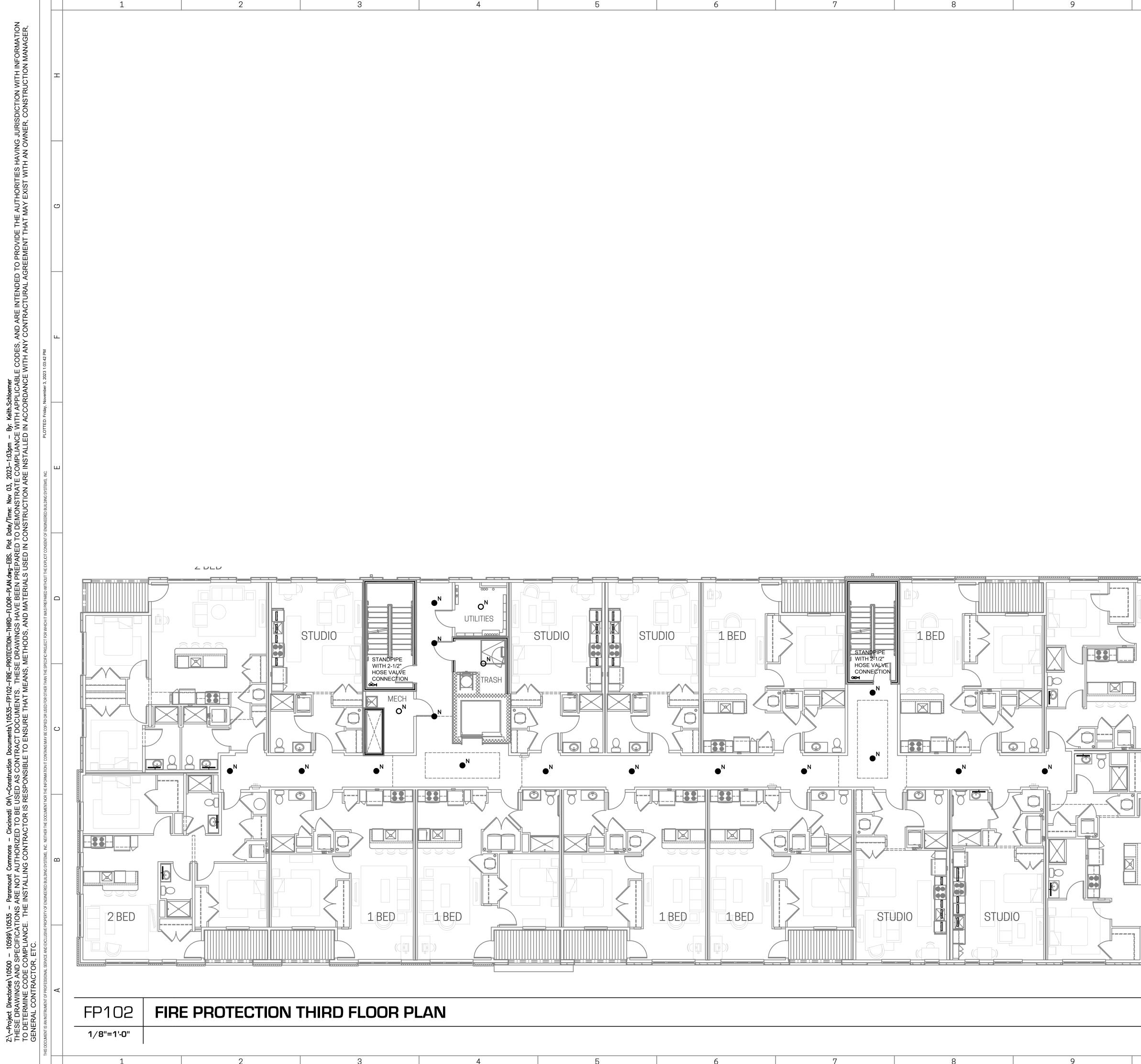
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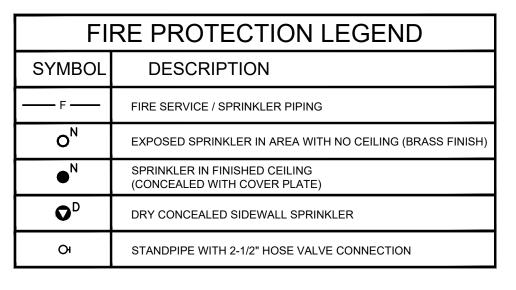
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FIRE PROTECTION THIRD FLOOR PLAN

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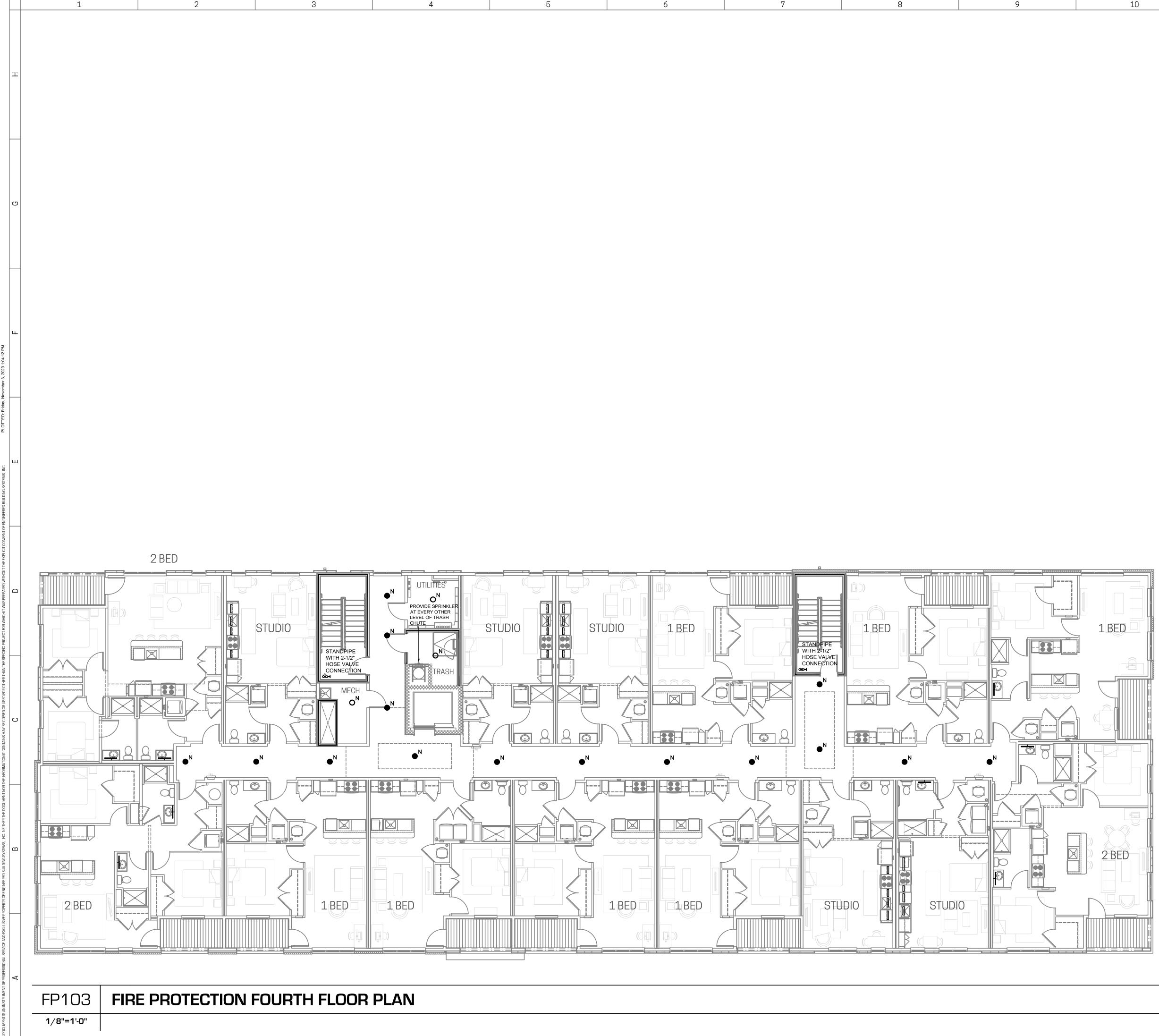
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FIRE PROTECTION GENERAL NOTES

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



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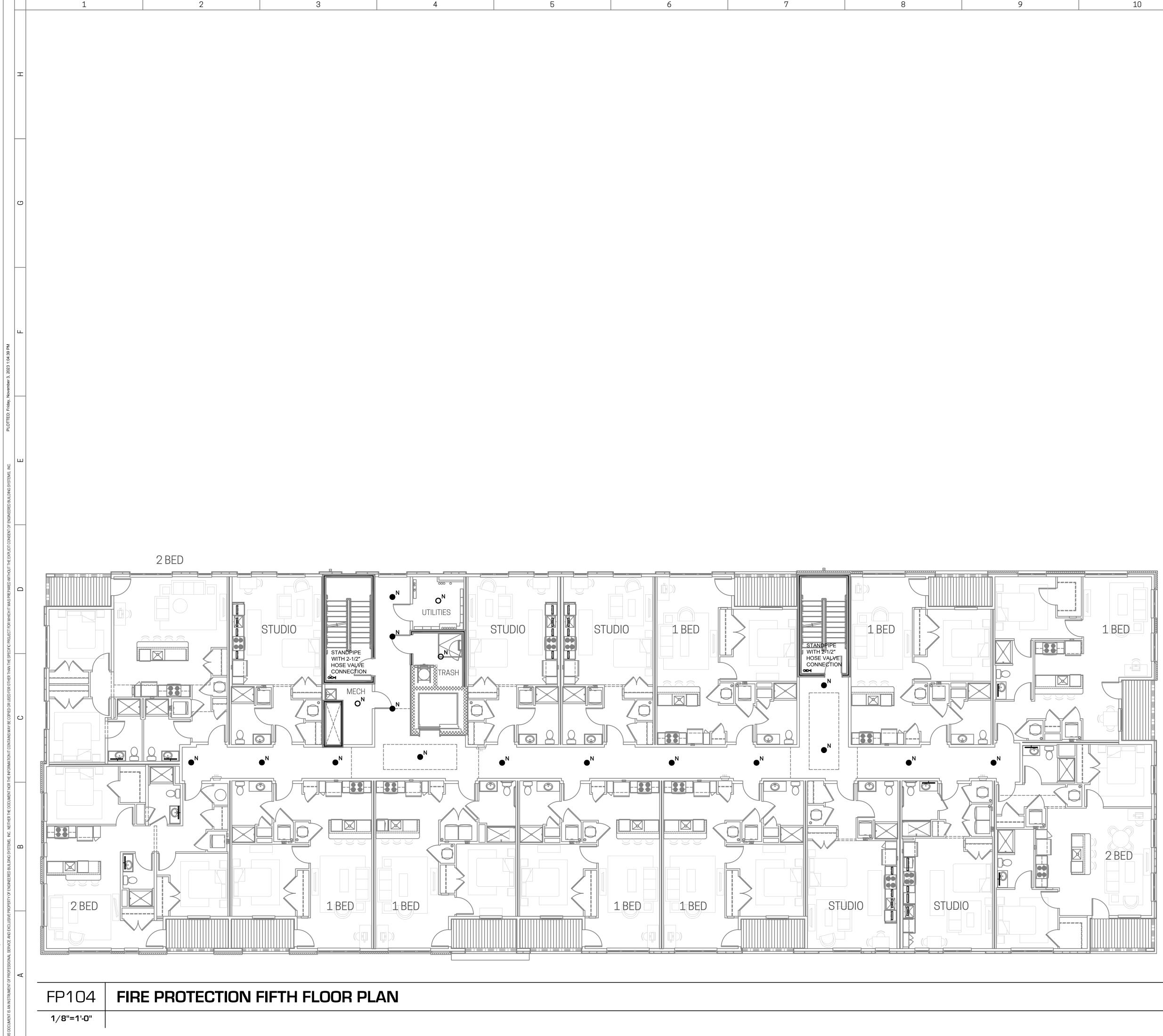
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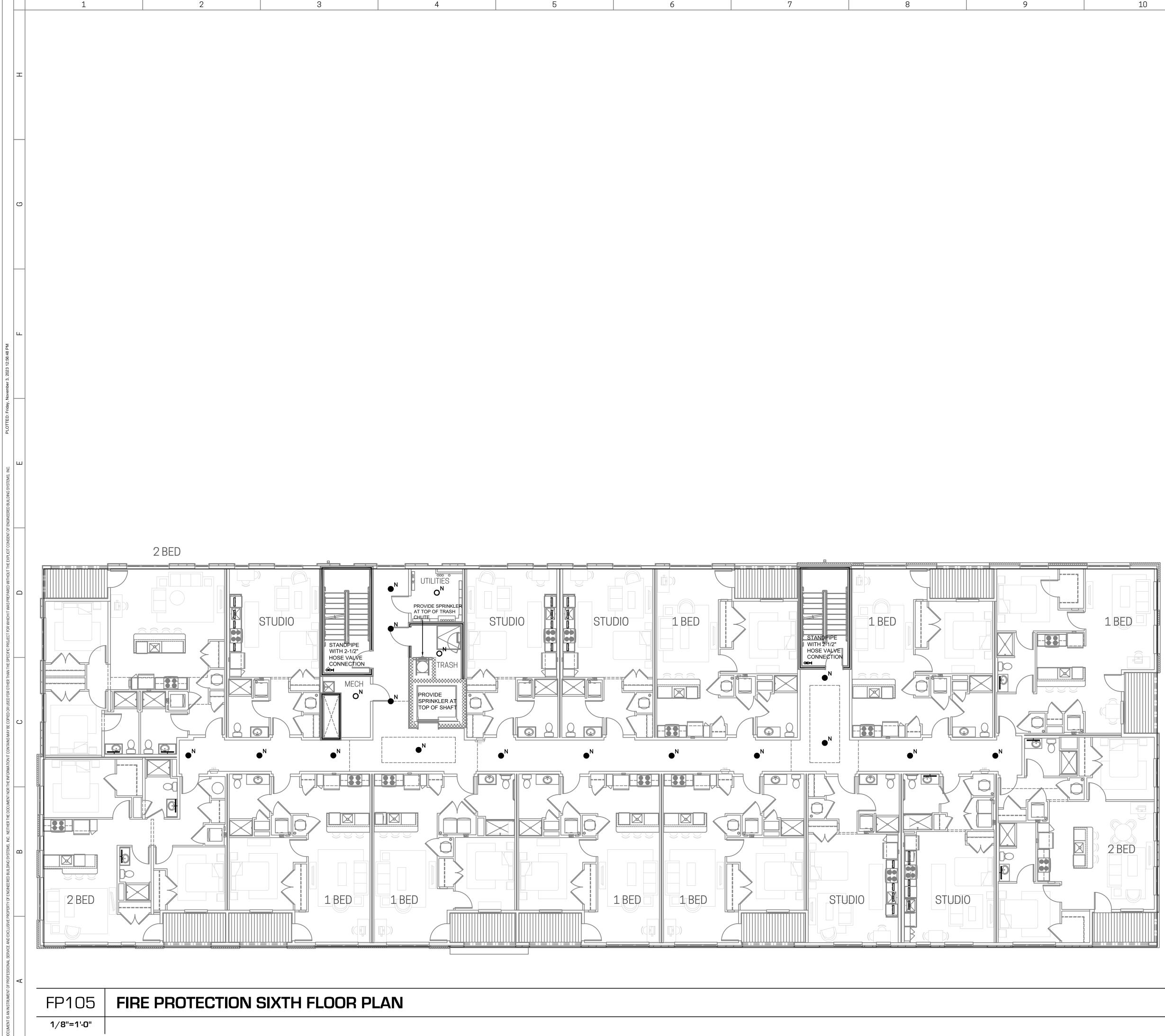
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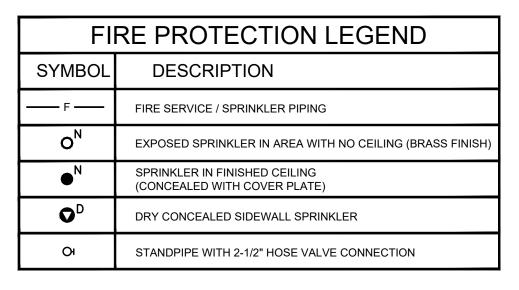
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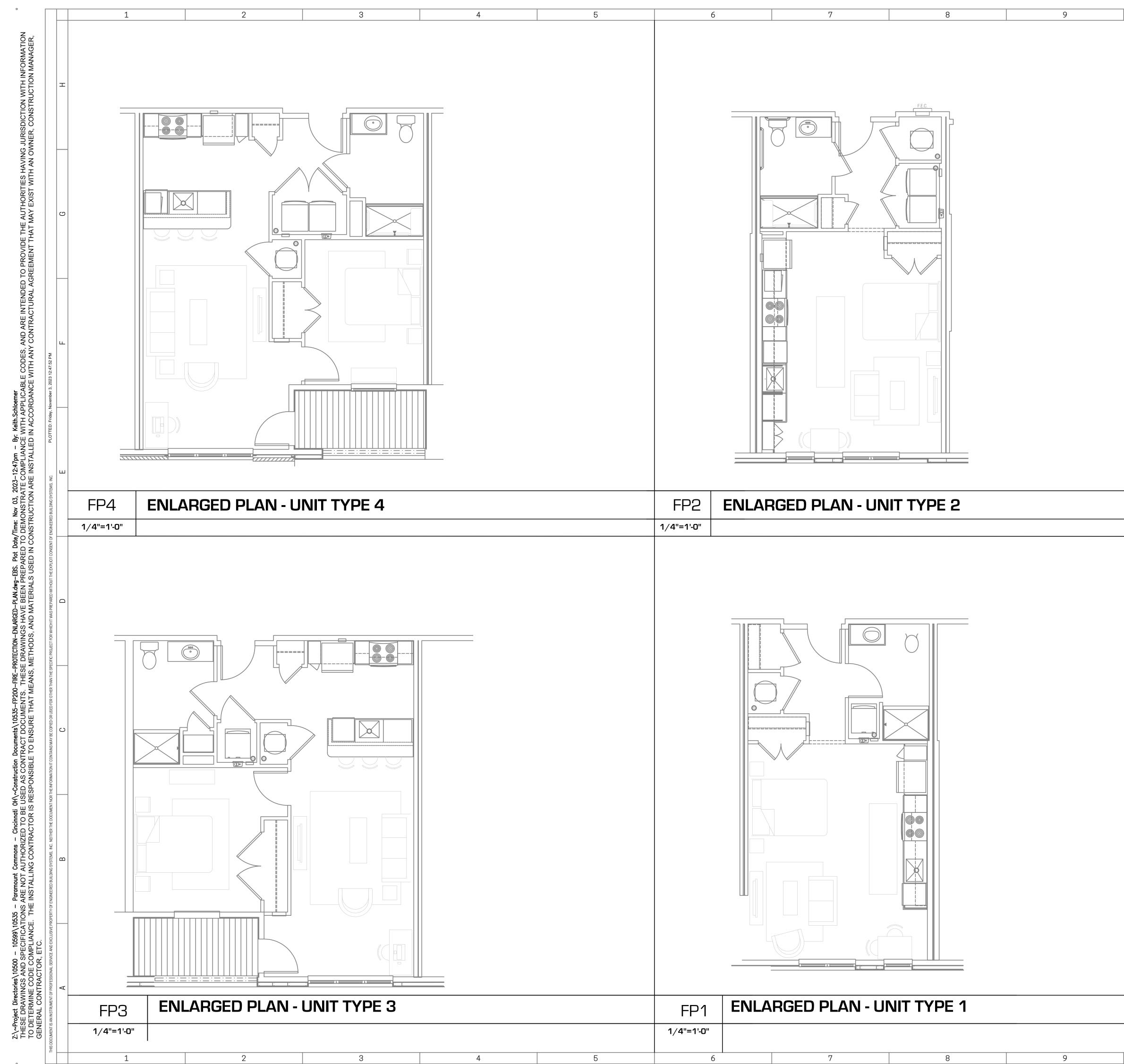
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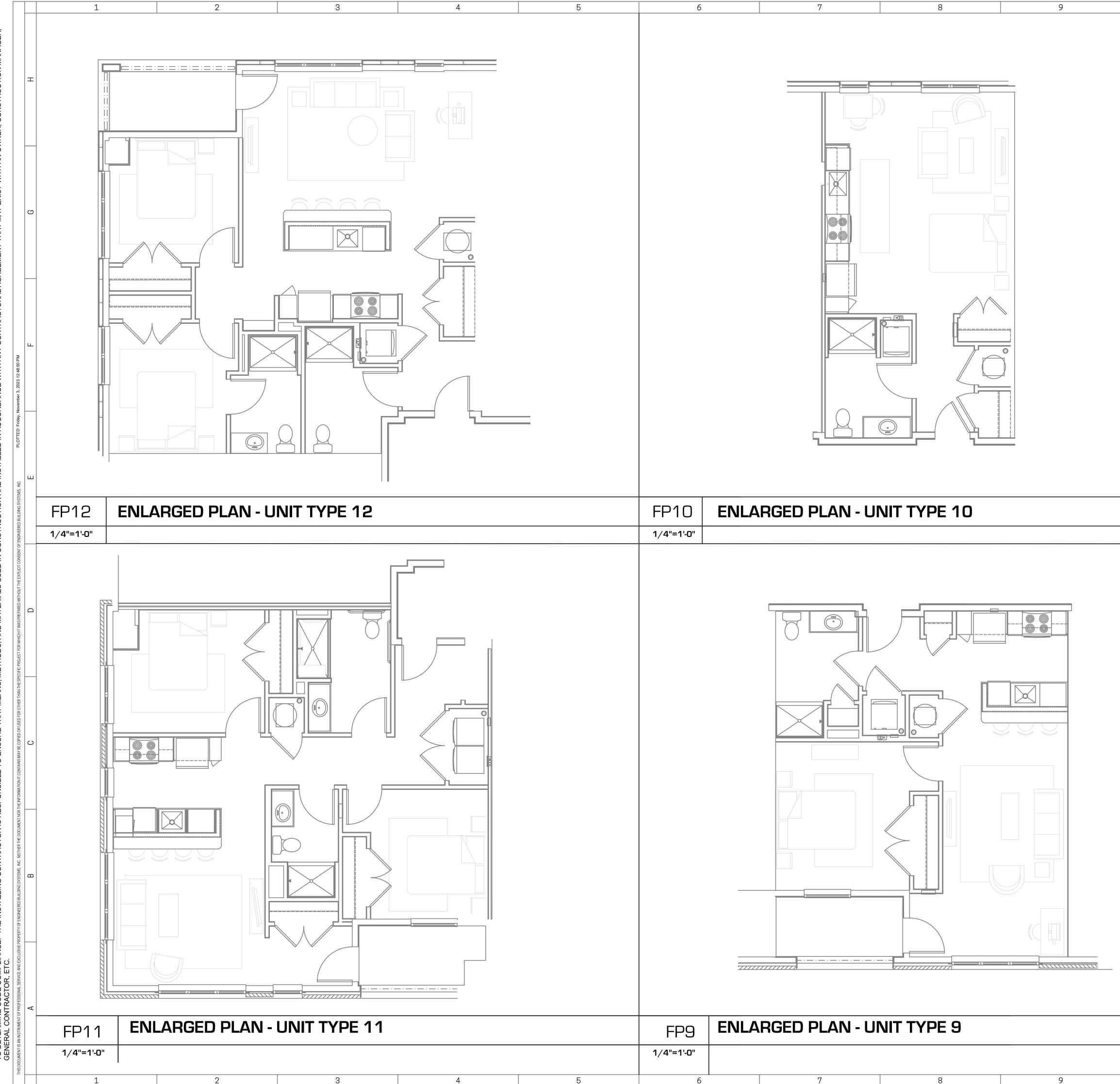
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