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ADDITION — NEW SYSTEMS				
Section	Subject	Requirements	Applies?	Compliance
EBC §1108.4 / §309.1	COMPLIANCE OF NEW AND EXTENDED MECHANICAL SYSTEMS	ALL NEW AND EXTENDED MECHANICAL SYSTEMS SERVING THE ADDITION SHALL COMPLY WITH THE NYC MECHANICAL CODE AS NEW CONSTRUCTION.	Y	COMPLIES. NEW MECHANICAL SYSTEMS SERVING THE 32,000 SF ADDITION (4TH AND 5TH FLOORS, GROUP B OFFICE) DESIGNED TO NYC MC AS NEW CONSTRUCTION.
EBC §809.2.2 / §307.2 / NYC BC Ch. 16	WIND AND SEISMIC SUPPORTS FOR ROOFTOP EQUIPMENT	ROOFTOP EQUIPMENT AND SUPPORTS (COOLING TOWER, AIR HANDLING UNITS, EXHAUST FANS) SHALL BE DESIGNED TO RESIST WIND PRESSURES PER NYC BC CHAPTER 16. SEISMIC SUPPORTS SHALL BE EVALUATED PER §307.2.	Y	COMPLIES. NEW ROOFTOP MECHANICAL EQUIPMENT SUPPORTS AND ENCLOSURES DESIGNED TO RESIST WIND PRESSURES PER NYC BC CHAPTER 16; SEISMIC PER §307.2.
EXISTING SYSTEMS				
Section	Subject	Requirements	Applies?	Compliance
EBC §809.1 / §309	MECHANICAL ELEMENTS IN LEVEL 1 WORK AREA	MECHANICAL ELEMENTS WITHIN THE LEVEL 1 ALTERATION WORK AREA SHALL COMPLY WITH §809 AND §309. THE §809.1.1 SYSTEM-WIDE UPGRADE THRESHOLD IS TRIGGERED WHERE WORK AREA EXCEEDS 50% OF THE AREA SERVED BY THAT SYSTEM, OR 50% OF TERMINAL CAPACITY IS ALTERED OR REPLACED.	Y	COMPLIES. WORK AREA (1ST FLOOR LOBBY, STAIR AND ELEVATOR MODIFICATIONS) IS WELL BELOW 50% OF ANY FLOOR OR SYSTEM SERVED. §809.1.1 SYSTEM-WIDE UPGRADE THRESHOLD NOT TRIGGERED.
EBC §809.6 / NFPA 80	FIRE DAMPERS	NEW AND EXISTING FIRE DAMPERS IN THE WORK AREA, OR IN THE ROOM OR SPACE IN WHICH WORK ON A STAND-ALONE SYSTEM WHICH INCLUDES DUCT ALTERATIONS OCCURS, SHALL BE OPERATIONALLY TESTED IN ACCORDANCE WITH NFPA 80.	Y	COMPLIES. NEW FIRE DAMPERS IN AREA OF WORK SHALL BE OPERATIONALLY TESTED PER NFPA 80. NEW FIRE DAMPER SHALL BE PROVIDED FOR EVERY PENETRATION THROUGH A RATED ENCLOSURE WHERE REQUIRED BY NYC/MC.
EBC §809.7 / NFPA 105	SMOKE DAMPERS	NEW AND EXISTING SMOKE DAMPERS IN THE WORK AREA, OR IN THE ROOM OR SPACE IN WHICH WORK ON A STAND-ALONE SYSTEM WHICH INCLUDES DUCT ALTERATIONS OCCURS, SHALL BE OPERATIONALLY TESTED IN ACCORDANCE WITH NFPA 105.	Y	COMPLIES. NEW FIRE SMOKE DAMPERS IN AREA OF WORK SHALL BE OPERATIONALLY TESTED PER NFPA 105. NEW SMOKE DAMPER SHALL BE PROVIDED FOR EVERY PENETRATION THROUGH A RATED ENCLOSURE WHERE REQUIRED BY NYC/MC.
EBC §309.2.1 / §303.2	AIR DUCT AND TRANSFER OPENINGS (PRIOR CODE BUILDING)	DAMPER RATINGS IN RATED CONSTRUCTION MAY BE REDUCED PER §303.2 WHERE THE EXISTING BUILDING IS FULLY SPRINKLERED.	N	DOES NOT COMPLY. EXISTING BUILDING IS PARTIALLY SPRINKLERED; DAMPER RATING REDUCTIONS PER §303.2 NOT PERMITTED.
EBC §809.1.1	50% TERMINAL CAPACITY TRIGGER (EXTENSION OF EXISTING SYSTEMS)	WHERE EXISTING MECHANICAL SYSTEMS ARE EXTENDED, NEW TERMINAL DISTRIBUTION ADDED SHALL NOT EXCEED 50% OF EXISTING SYSTEM TERMINAL CAPACITY; OTHERWISE THE ENTIRE SYSTEM SHALL COMPLY WITH NYC MC AS NEW CONSTRUCTION.	Y	COMPLIES. NO NEW TERMINAL DISTRIBUTION ADDED. THE ENTIRE SYSTEM IS NOT REQUIRED TO COMPLY.
EBC §809.3 / NYC MC Ch. 4	VENTILATION	NEW VENTILATION SYSTEMS SERVING THE ADDITION SHALL COMPLY WITH NYC MECHANICAL CODE CHAPTER 4 FOR NEW CONSTRUCTION, INCLUDING MINIMUM OUTDOOR AIR RATES FOR GROUP B OCCUPANCY.	Y	COMPLIES. INDEPENDENT VENTILATION SYSTEM PROVIDED FOR ADDITION (GROUP B OFFICE). MINIMUM OUTDOOR AIR PROVIDED PER NYC MC CHAPTER 4 FOR GROUP B.
EBC §809.4 / NYC MC Ch. 5	EXHAUST SYSTEMS	EXHAUST SYSTEMS SHALL COMPLY WITH NYC MC CHAPTER 5.	Y	COMPLIES. NEW TOILET EXHAUST PROVIDED FOR GROUP B OFFICE AREAS
EBC §809.5 / NYC MC Ch. 6	DUCT SYSTEMS	ALL NEW DUCTWORK SHALL COMPLY WITH NYC MC CHAPTER 6. NEW DUCT PENETRATIONS THROUGH EXISTING ROOF SLAB AND RATED ASSEMBLIES SHALL INCLUDE COMPLIANT FIRE/SMOKE DAMPERS.	Y	COMPLIES. NEW DUCTWORK, AIR DISTRIBUTION DEVICES, AND DAMPERS FOR ADDITION COMPLY WITH NYC MC CHAPTER 6. FIRE/SMOKE DAMPERS PROVIDED AT ALL RATED PENETRATIONS.
EBC §809.13 / NYC MC Ch. 12	HYDRONIC PIPING	ALL NEW HYDRONIC PIPING FOR THE EXTENDED CONDENSER WATER SYSTEM SHALL COMPLY WITH NYC MECHANICAL CODE CHAPTER 12.	Y	COMPLIES. NEW HYDRONIC DISTRIBUTION PIPING EXTENDED TO CONNECT TO EXISTING SYSTEMS AND COMPLY WITH CHAPTER 12.
EBC §309.2.3	COOLING TOWER VIBRATION ISOLATORS	WHERE THE RELOCATED COOLING TOWER CANNOT COMPLY WITH VIBRATION ISOLATOR REQUIREMENTS OF NYC MC §313.3.7 DUE TO PHYSICAL LIMITATIONS, ISOLATORS MAY BE OMITTED WITH RDP DOCUMENTATION OF FIELD CONDITIONS, CALCULATIONS, AND MANUFACTURER SPECIFICATIONS.	Y	COMPLIES. EXISTING ROOF-MOUNTED COOLING TOWER REPLACED WITH NEW AND LOCATED TO ROOF OF ADDITION. VIBRATION ISOLATORS SHALL COMPLY.
EBC §309.2.4	COOLING TOWER COMBUSTIBLE FILL	WHERE THE REPLACEMENT COOLING TOWER IS LOCATED WITHIN 15 FT OF THE LOT LINE, COMBUSTIBLE FILL IS PERMITTED.	Y	COMPLIES. APPLIES TO RELOCATED COOLING TOWER ON ADDITION ROOF IF WITHIN 15 FT OF LOT LINE.

MECHANICAL ABBREVIATIONS	
AC	AIR CONDITIONING UNIT
ACCU	AIR COOLED CONDENSING UNIT
CD	CONDENSATE
CFM	CUBIC FEET OF AIR PER MINUTE
DN	DOWN
FD/AD	FIRE DAMPER W/ACCESS DOOR
FSD/AD	FIRE SMOKE DAMPER W/ACCESS DOOR
GXF	GENERAL EXHAUST FAN
MD	MOTORIZED DAMPER
OAI	OUTSIDE AIR INTAKE RISER
REF	REFRIGERANT PIPING
TX	TOILET EXHAUST RISER
VD	VOLUME DAMPER

STRUCTURAL ENGINEER :

EBC CASE STUDY 02

DEPARTMENT STORE

DOB APPROVAL STAMP:

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SHEET TITLE

M-100.00



EXISTING CEILING
MOUNTED HEATER TO
REMAIN

1 CELLAR - DEMOLITION PLAN
SCALE: 1/8" = 1'-0"

ENERGY SUBMISSION AND SPECIAL INSPECTIONS ARE
REQUIRED BUT NOT SHOWN FOR EBC TRAINING
PURPOSES.

EBC CASE STUDY 02

DEPARTMENT STORE

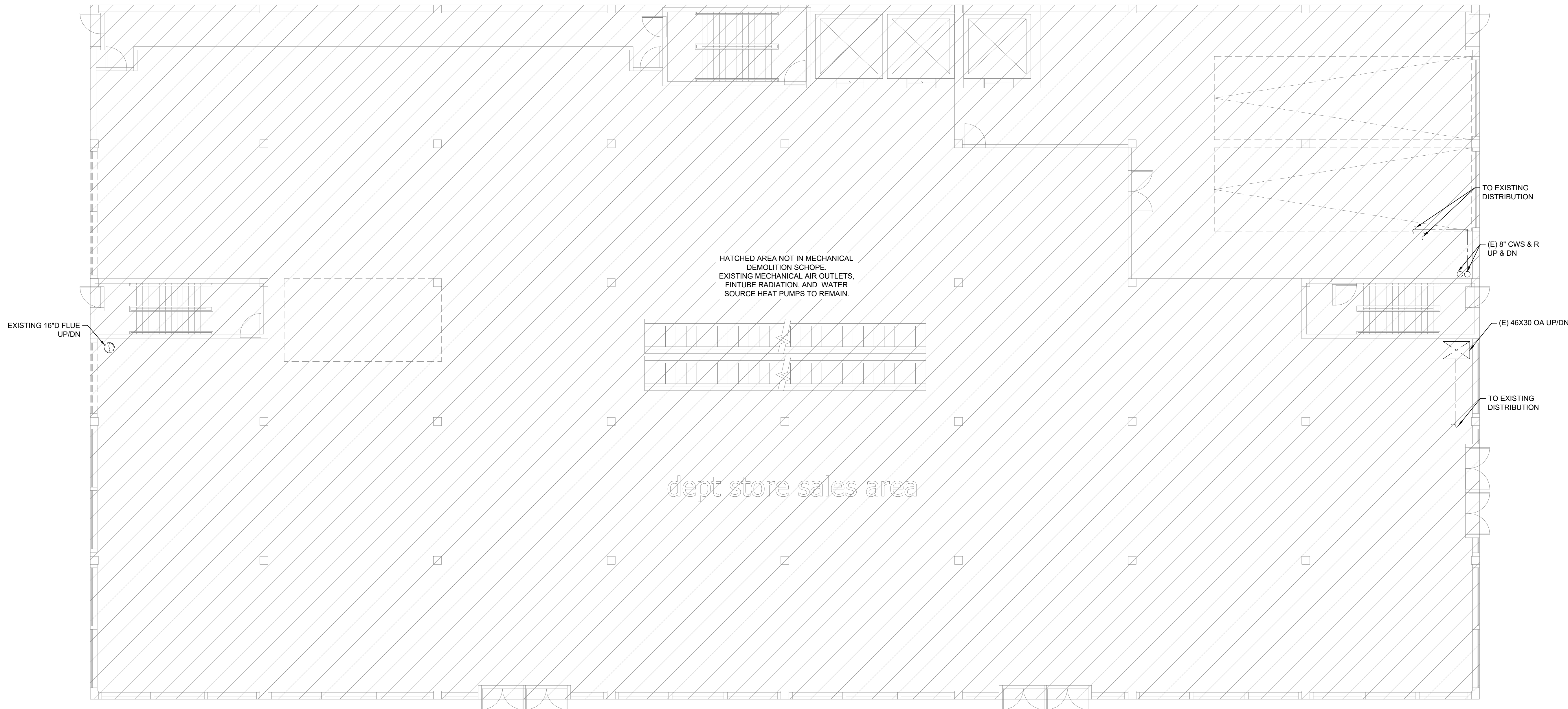
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2026.05.26	SUBMIT FOR DOB REVIEW

MECHANICAL

GROUND FLOOR

DEMOLITION PLAN

M-101.00



1 GROUND FLOOR DEMOLITION PLAN
SCALE: 1/8" = 1'-0"

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DRAWING TITLE:

MECHANICAL

2ND & 3RD FLOOR

DEMOLITION PLAN

PROJECT #:

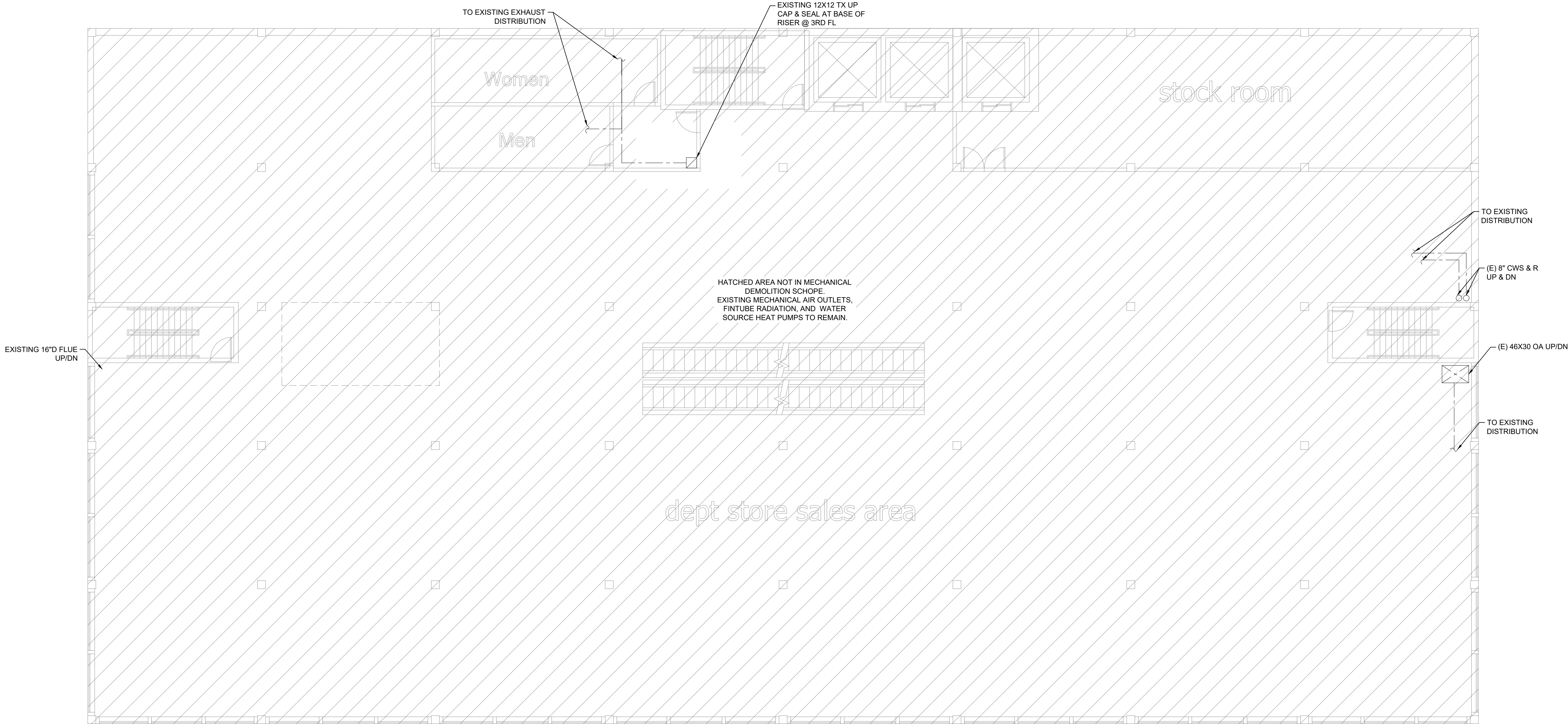
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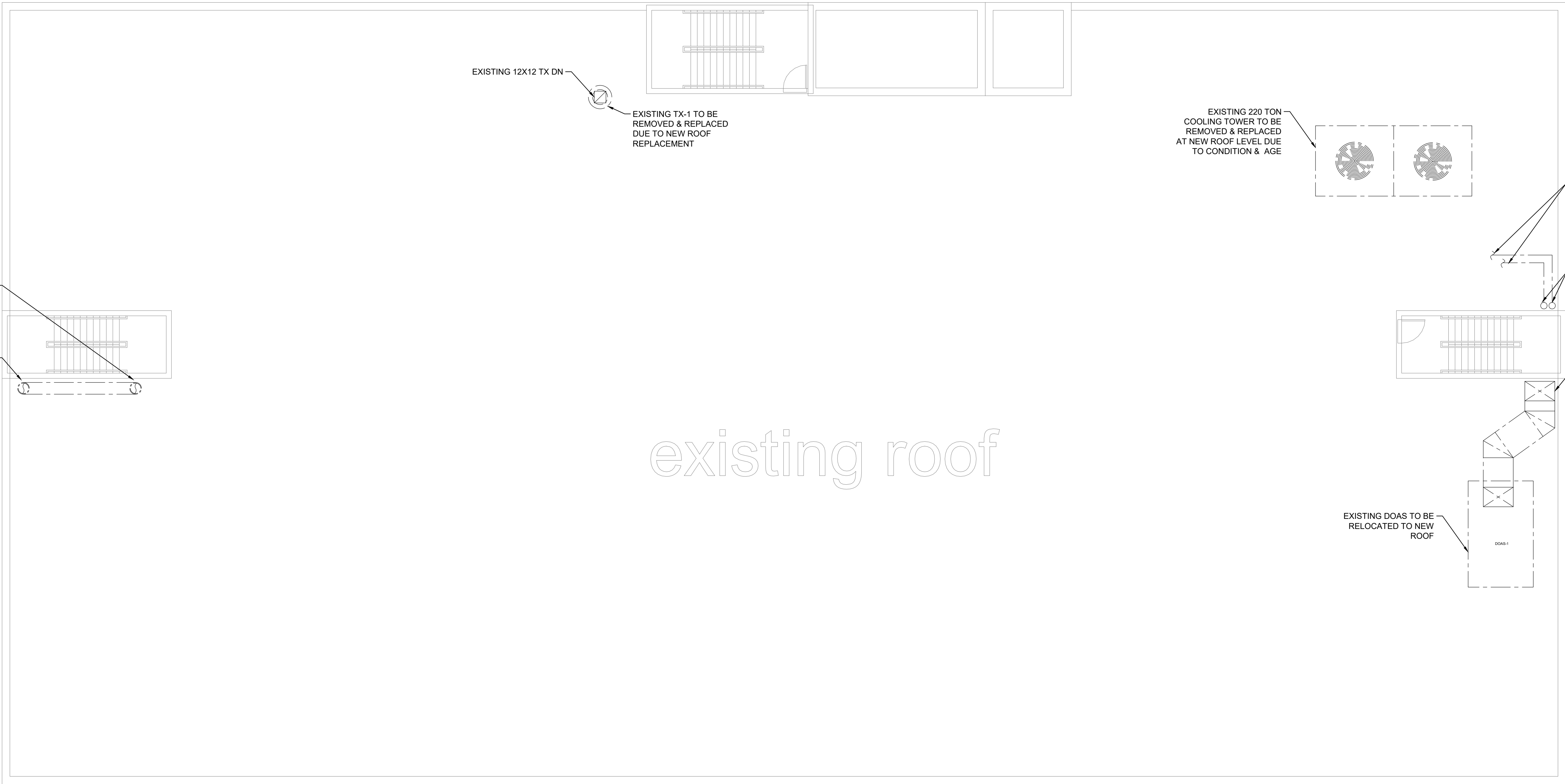
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1 2ND&3RD FLOOR DEMOLITION PLAN
SCALE: 1/8" = 1'-0"



existing roof

1 ROOF DEMOLITION PLAN
SCALE: 1/8" = 1'-0"

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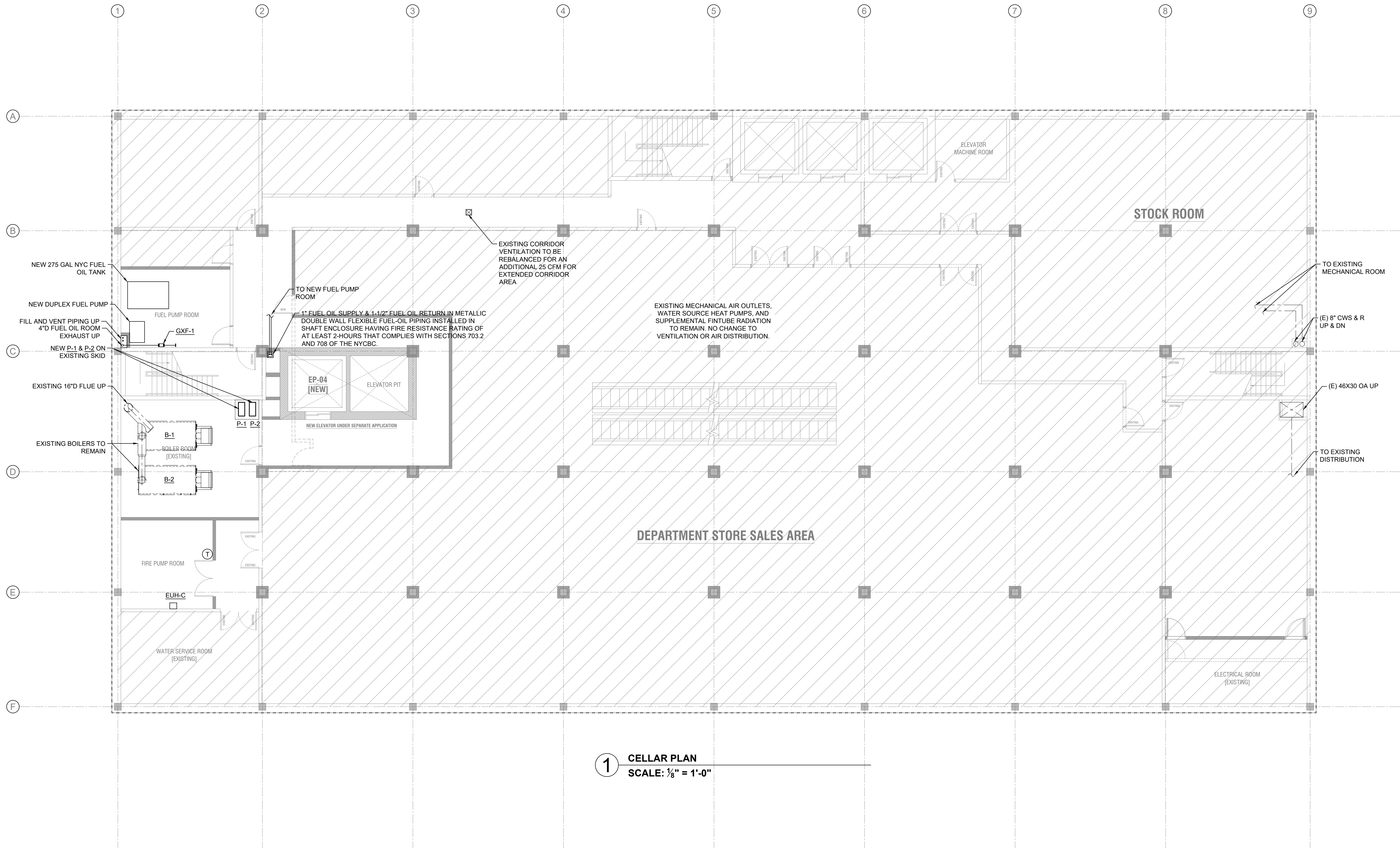
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**MECHANICAL
ROOF DEMOLITION PLAN**

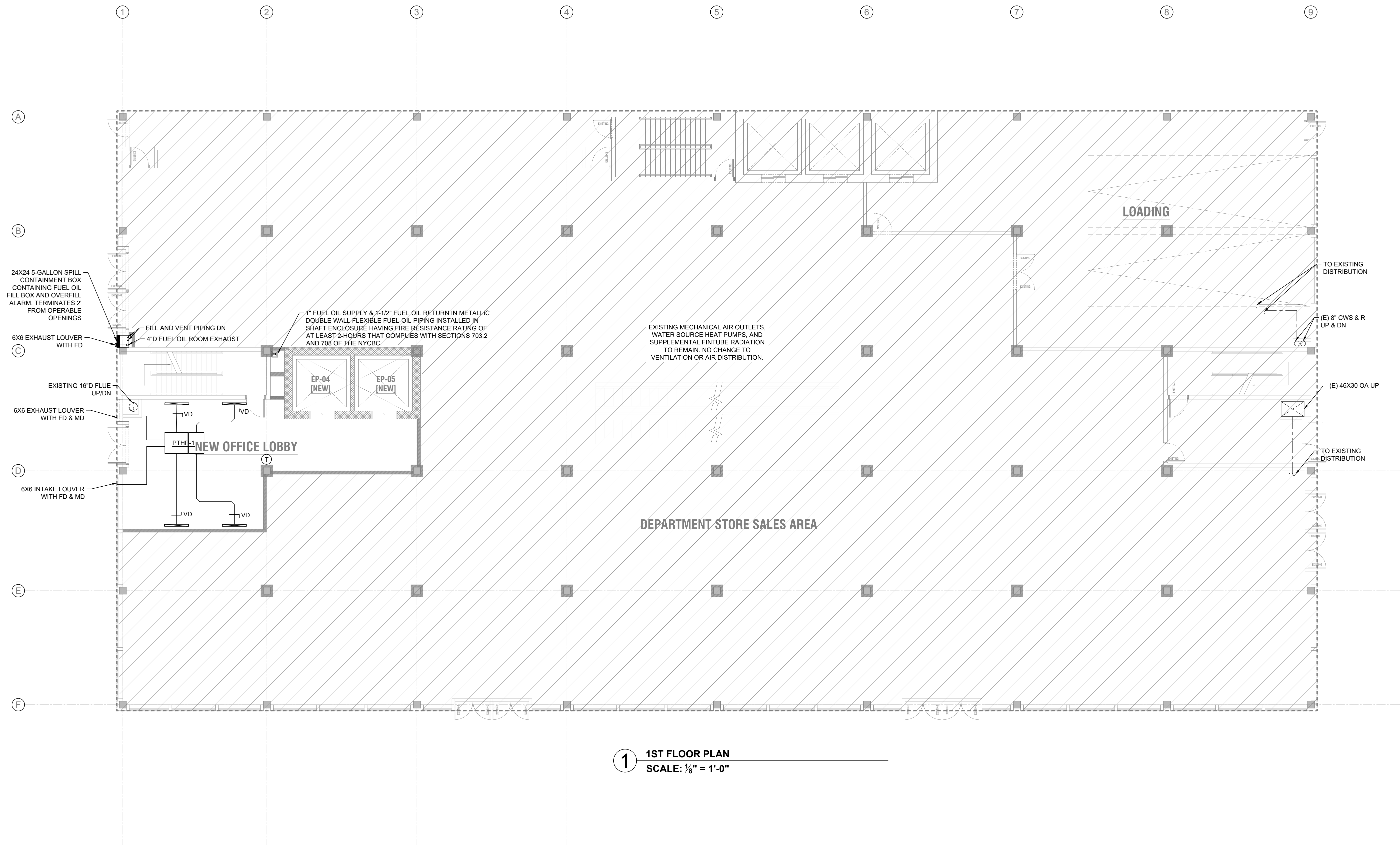
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1 1ST FLOOR PLAN
SCALE: 1/8" = 1'-0"

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MECHANICAL
GROUND FLOOR PLAN

PROJECT #: DRAWN BY: SHEET TITLE:

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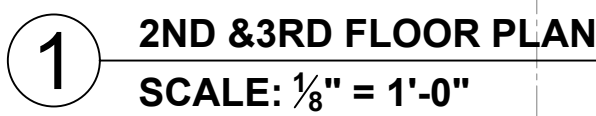
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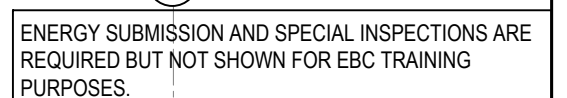
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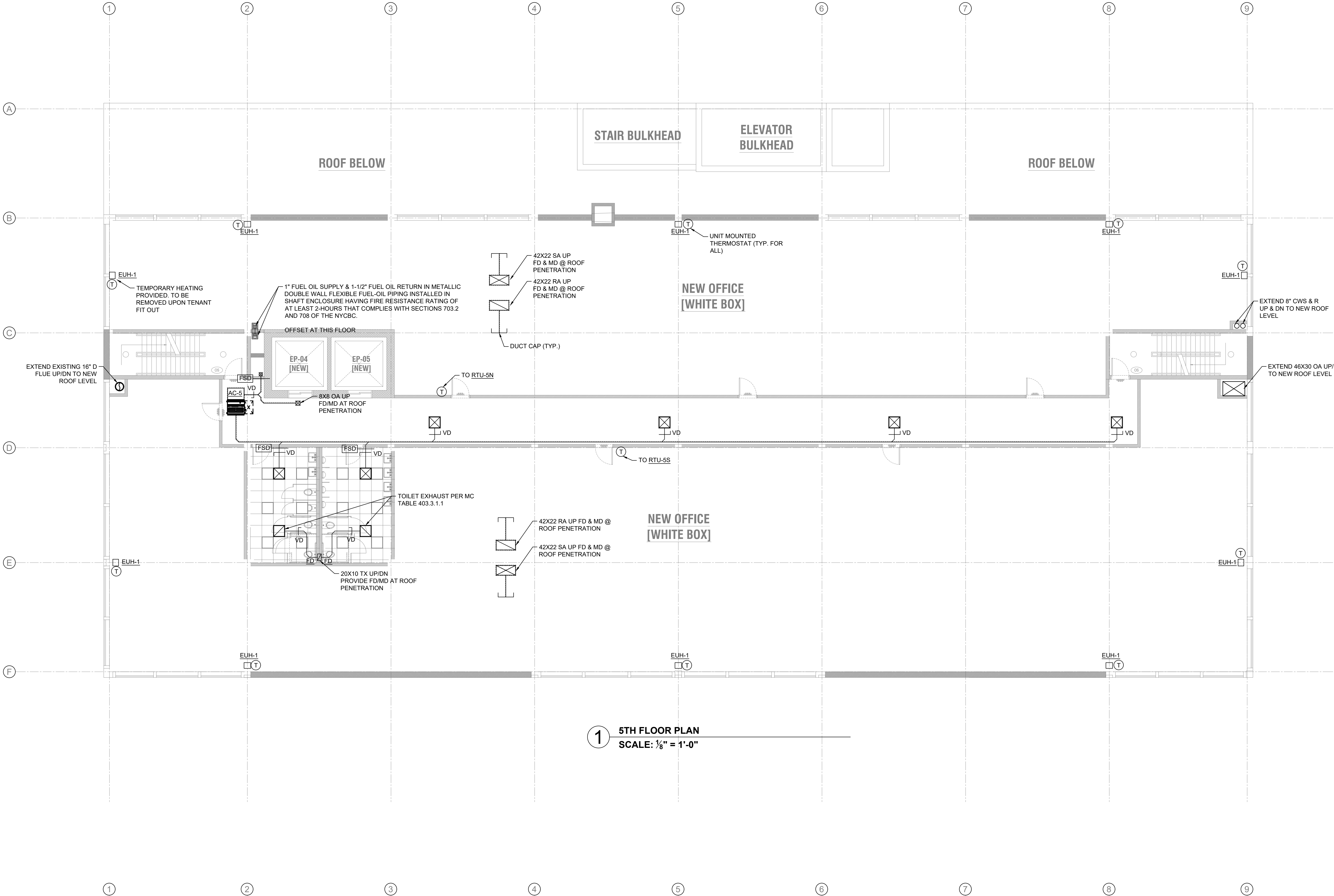
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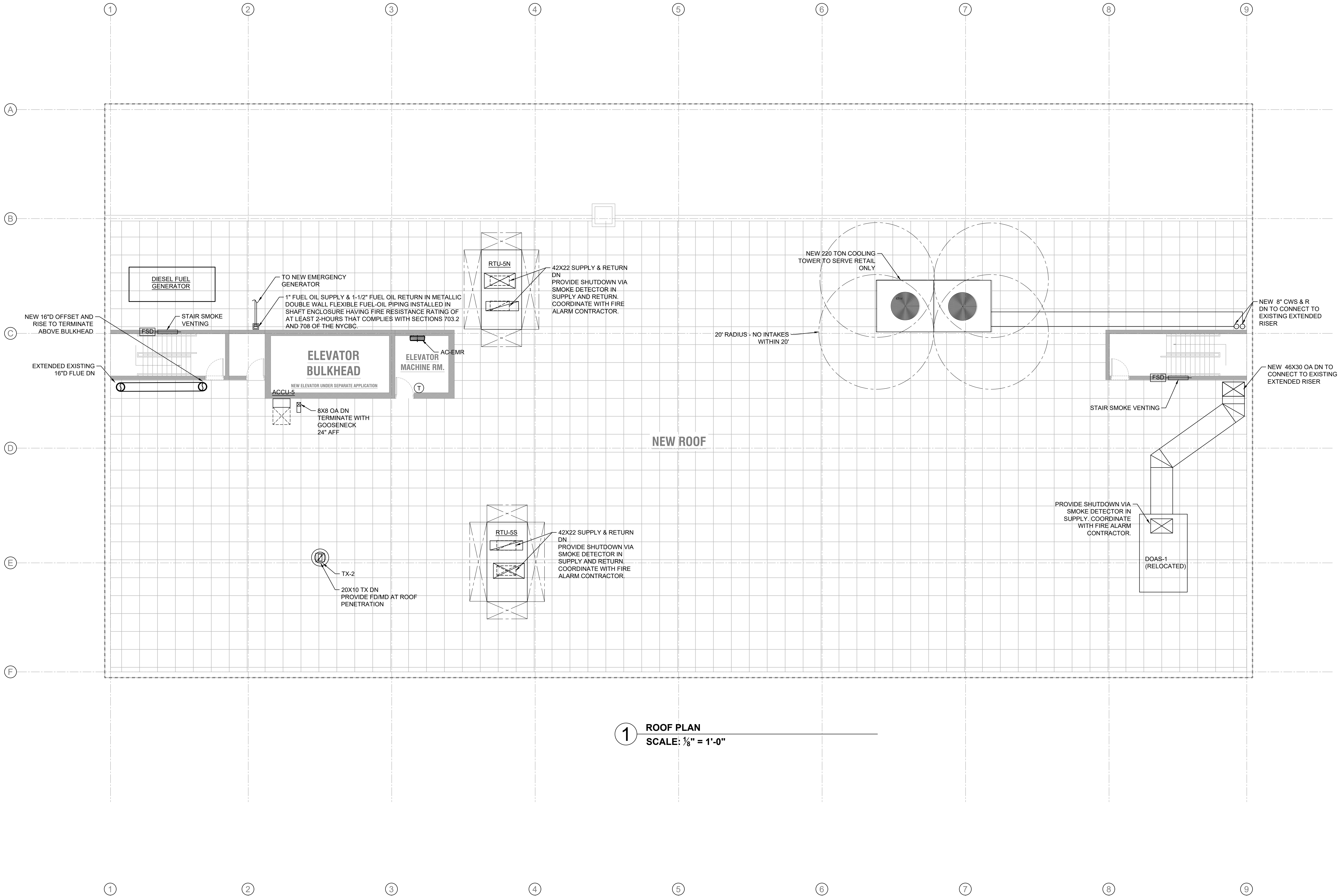
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MECHANICAL
ROOF PLAN

PROJECT #:

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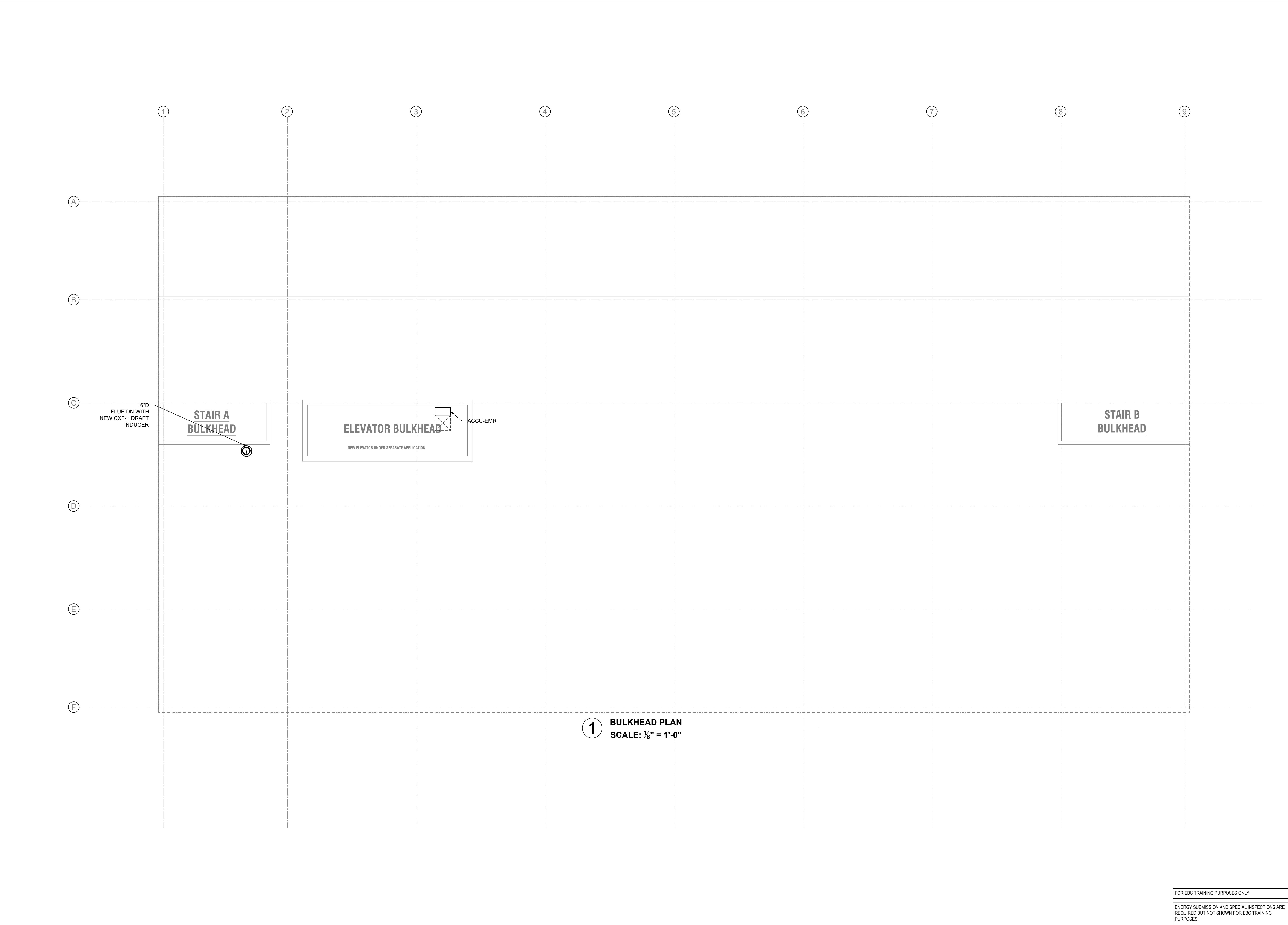
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DOB APPROVAL STAMP:

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2026.07.21	SUBMIT FOR DOB REVIEW
2026.06.16	SUBMIT FOR DOB REVIEW
2026.06.02	SUBMIT FOR DOB REVIEW
2026.05.26	SUBMIT FOR DOB REVIEW

DRAWING TITLE:
MECHANICAL BULKHEAD PLAN

PROJECT #:

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FUEL OIL TRANSFER PUMP SCHEDULE																						
TAG				CAPACITY			MOTOR								CONNECTIONS			DIMENSIONS & WEIGHT				ACCESSORIES / OPTIONS
	Equipment Type	Pump Type	Fluid Service	Flow— No. 2 Oil (GPH)	Discharge Pressure (PSI)	Max Inlet Vacuum (in Hg)	Speed (RPM)	HP	Voltage	Phase / Hz	Construction	Mesh	Size	Diff. Pressure Switch	Inlet	Outlet	Relief Valve	Length (L)	Width (W)	Height (H)	Operating Weight	Leak Detection Switch
FP-1	Automatic Fuel Oil Transfer Pump Set	Bi-rotational positive displacement, cast iron housings , self-adjusting mech. seals	No. 2 Fuel Oil	89	100	10	1,725	1/3	120 VAC (selectable: 120 / 208 / 230)	1 ph / 60 Hz	Base-mounted, TEFC	40 mesh basket	1/2" (per inlet line size — confirm w/ piping)	YeS	1/2"	1/2"	1/2"	30-1/2 in.	22-1/2 in.	69-7/8 in.	450 lb	Included

RTU SCHEDULE — 15-TON PACKAGED HEAT PUMP																										
TAG			COOLING (AHRI 340/360)								HEAT PUMP HEATING						AUX ELECTRIC HEAT	REFRIGERATION						COILS		
	Type	Nomina l Tons	Gross Cap. (BTU/h)	Net Cap. (BTU/h)	EER	IEER (2- spd)	IEER (SZVAV/MZVAV)	Cool. Power (kW)	AHRI CFM	Nomina l CFM	High-Temp Cap. @ 47°F (BTU/h)	HT Power / COP	Low-Temp Cap. @ 17°F (BTU/h)	LT Power / COP	Min Low-Amb. Cooling	KW	Refrigeran t	Charge (lb)	Compressors	Staging	Metering	Leak Detection	Outdoor Coil	Indoor Coil	Drain	
RTU-4S	Single-Packaged RTU Heat Pump	15	181,000	178,000	10.6	13.5	14.0 / 14.0	16.79	5,250	6,000	160,000	14.21 kW / 3.3	96,000	13.72 kW / 2.05	40°F std (0°F opt)	20	R-454B (A2L)	32.0	(2) Manifold Scroll	33 / 67 / 100%	TXV	Factory (UL 60335-2-40)	Cu/Al RTPF, 34.71 ft², 3R / 16 FPI	Cu/Al RTPF, 25.83 ft², 4R / 16 FPI	1" NPT	
RTU-4N	Single-Packaged RTU Heat Pump	15	181,000	178,000	10.6	13.5	14.0 / 14.0	16.79	5,250	6,000	160,000	14.21 kW / 3.3	96,000	13.72 kW / 2.05	40°F std (0°F opt)	20	R-454B (A2L)	32.0	(2) Manifold Scroll	33 / 67 / 100%	TXV	Factory (UL 60335-2-40)	Cu/Al RTPF, 34.71 ft², 3R / 16 FPI	Cu/Al RTPF, 25.83 ft², 4R / 16 FPI	1" NPT	
RTU-5S	Single-Packaged RTU Heat Pump	15	181,000	178,000	10.6	13.5	14.0 / 14.0	16.79	5,250	6,000	160,000	14.21 kW / 3.3	96,000	13.72 kW / 2.05	40°F std (0°F opt)	20	R-454B (A2L)	32.0	(2) Manifold Scroll	33 / 67 / 100%	TXV	Factory (UL 60335-2-40)	Cu/Al RTPF, 34.71 ft², 3R / 16 FPI	Cu/Al RTPF, 25.83 ft², 4R / 16 FPI	1" NPT	
RTU-5N	Single-Packaged RTU Heat Pump	15	181,000	178,000	10.6	13.5	14.0 / 14.0	16.79	5,250	6,000	160,000	14.21 kW / 3.3	96,000	13.72 kW / 2.05	40°F std (0°F opt)	20	R-454B (A2L)	32.0	(2) Manifold Scroll	33 / 67 / 100%	TXV	Factory (UL 60335-2-40)	Cu/Al RTPF, 34.71 ft², 3R / 16 FPI	Cu/Al RTPF, 25.83 ft², 4R / 16 FPI	1" NPT	

FANS				FILTERS		CONTROLS		ELECTRICAL				PHYSICAL		
OD Fans	OD Fan CFM (total)	ID Fan	ID Motor (std)	Standard	Optional	Controller	Economizer	V / Ph / Hz	MCA (A)	MOCP (A)	SCCR	Op. Weight (lb)	H × W × D (in)	Sound (dBA)
(2) 26" prop., direct, 1.0 HP @ 1,125 RPM	13,450	(2) BC plenum 23"×6", VS ECM	2.9 HP, 1,850 RPM max	(8) 20×24×2 throwaway	2" MERV-8 or MERV-13	Symbio™ 700	Downflow low-leak, dry-bulb w/ baro. relief	208–230 / 3 / 60	84	110	5 kA std (65 kA opt)	2,026	50-7/8 × 63-1/8 × 99-5/8	87
(2) 26" prop., direct, 1.0 HP @ 1,125 RPM	13,450	(2) BC plenum 23"×6", VS ECM	2.9 HP, 1,850 RPM max	(8) 20×24×2 throwaway	2" MERV-8 or MERV-13	Symbio™ 700	Downflow low-leak, dry-bulb w/ baro. relief	208–230 / 3 / 60	84	110	5 kA std (65 kA opt)	2,026	50-7/8 × 63-1/8 × 99-5/8	87
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CONDENSING UNIT SCHEDULE																			
TAG	LOCATION	CAPACITY (BTU/HR)		OUTDOOR TEMP (F)			Efficiency			REFRIG	PIPING		POWER SUPPLY					Sound Power Level (dB(A))	WEIGHT (lbs)
		TOTAL CLG	TOTAL HTG	CLG DBT	CLG WBT	HTG DBT	Cooling EER2	Cooling IEER (SEER)	Heating COP (HSPF)		LIQUID	LP GAS	VOLTS	PHASE	HZ	MCA (A)	MOP (A)		
ACCU-4	4TH FL	24000	27000	91.9	73.9	10.9	14.8	18.2(SEER2)	10.2 (HSPF2)	R-32	3/8	5/8	208-230V	1Ph	60Hz	27	30	62	159
ACCU-5	5TH FL	24000	27000	91.9	73.9	10.9	14.8	18.2(SEER2)	10.2 (HSPF2)	R-32	3/8	5/8	208-230V	1Ph	60Hz	27	30	62	159
ACCU-EMR	EMR	22000	25200	91.9	73.9	10.9	13.0	22.0	3.7	R-32	3/8	5/8	208-230V	1Ph	60Hz	19	30	56	135

VRF INDOOR UNIT SCHEDULE																
Associated Condenser	Tag	Space Served	Type	Nominal Capacity			Return Air Temp			Air flow rate	Piping Connections		Power Supply			
				Total Cooling	Sensible Cooling	Heating	Cooling DB	Cooling WB	Heating DB		Liquid	Gas	Volts	Phase	Hz	RLA
				Btu/h	Btu/h	Btu/h	°F	°F	°F		in	in				
ACCU-4	AC-4	CORRIDOR	CASSETTE 4WAY	12300	9000	13600	80.6	67.1	68.0	307/283/247	1/4	3/8	208~230V	1	60	0.25
ACCU-5	AC-5	CORRIDOR	CASSETTE 4WAY	12300	9000	13600	80.6	67.1	68.0	307/283/247	1/4	3/8	208~230V	1	60	0.25
ACCU-EMR	AC-EMR	EMR	WALL MOUNTED	22000	-	24000	80.6	67.1	68.0	601/495/389	1/4	3/8	208~230V	1	60	-

PTHP SCHEDULE																			
MARK	MODEL	AIRFLOW (CFM)	OUTSIDE AIR (CFM)	COOLING INPUT	COOLING CAPACITY (MBH)		HEATING INPUT	HEATING				ELECTRICAL (PER MODULE)				DIMENSIONS			
				W	TOTAL	SEER2	W	TOTAL MBH	HSPF2	900 W ELECTRIC HEAT Y/N	ELECTRIC HEATER AMPS	V	PH	MCA	MOCP	L	W	H	WT (LBS)
PTHP-1	CEILING DUCTED WITH ERV	400	40	729	6.1	13.9	860	8.3	9.12	Y	12.2	208	1	15	25	46	40	11	190

MECHANICAL EQUIPMENT SCHEDULE - NEW EQUIPMENT																
TAG	EQUIPMENT	SERVICE	QTY	CAPACITY (TONS)	FLOW (GPM)	DESIGN CONDITIONS	MOTOR HP	VOLTAGE	PH	HZ	FLA (A)	MCA (A)	MOCP (A)	Dimensions (L x W x H)	Op. Wt. (lbs)	Location
CT-1	Closed-Circuit Fluid Cooler (New)	Heat rejection from existing WSHP loop	1	220	660	95F EWT / 85F LWT / 78F WB	30	208	3	60	88	110	220	12'-1.25" x 11'-10" x 15'-10.75"	23050	6th floor

CIRCULATING PUMP SCHEDULE												
TAG	EQUIPMENT	SERVICE	QTY	TDH	Flow (GPM)	MOTOR HP	VOLTAGE	PHASE	HZ	FLA (A)	MCA (A)	MOCP (A)
P-1	Closed-Loop Circulating Pump (Duty)	Circulate WSHP loop water	1	75 FT	660	25	208	3	60	74.8	93.5	187
P-2	Closed-Loop Circulating Pump (Standby)	Circulate WSHP loop water (standby)	1	75 FT	660	25	208	3	60	74.8	93.5	187

ELECTRIC UNIT HEATER SCHEDULE											
MARK	LOCATION	SUPPLY CFM	HEATING		ELECTRICAL		DIMENSIONS				
			TOTAL BTUH	TOTAL KW	V	AMPS	H	W	D		
EUH-C	EJECTOR PUMP ROOM	270	6824	2	208	9.6	12	11	10		
EUH-1	SEE PLAN	700	34127	10	208	-	13	19	16		

EXHAUST FAN SCHEDULES						
MARK	LOCATION	AREA SERVED	DRIVE TYPE	CFM	TOTAL EXTERNAL SP	V/C/P
GXF-1	CELLAR	CELLAR FUEL OIL VENT	DIRECT	25.00	1/4	115/60/1
TXF-1	4TH FL ROOF	EXISTING TOILETS	DIRECT	630	1/2	115/60/1
TXF-2	ROOF	NEW TOILETS	DIRECT	800	1/2	115/60/1