

HVAC SYMBOLS LIST											
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
AAD	AUTOMATIC AIR DAMPER		CONNECTION - TOP		DOUBLE WALL LINED DUCT		SUPPLY / RETURN / EXHAUST AIR TAKEOFFS		ELECTRIC/PNEUMATIC SWITCH OR RELAY		
ACC	AIR-COOLED CONDENSING UNIT		CONNECTION - BOTTOM		DUCT SECTION - SUPPLY				PNEUMATIC/ELECTRIC SWITCH OR RELAY		
AD	ACCESS DOOR		DIRECTION OF FLOW		DUCT SECTION - RETURN/EXHAUST				CURRENT TRANSDUCER		
AFF	ABOVE FINISHED FLOOR		REDUCER		DUCT SECTION - ROUND DUCT IN INCHES				OPEN/CLOSED		
AHU	AIR HANDLING UNIT		CAP OR PLUG		ACOUSTIC THERMAL LINING				START/STOP		
BBD	BOILER BLOW DOWN		ELBOW DOWN		FLEXIBLE DUCTWORK				ENABLE/DISABLE		
BD	BACKDRAFT DAMPER		ELBOW UP		FLEXIBLE CONNECTION				TEMPERATURE SENSOR (DUCT OR PIPE MOUNTED)		
CA	COMPRESSED AIR		TEE OUTLET - UP		FIRE DAMPER				HUMIDITY SENSOR (DUCT MOUNTED)		
CD	COOLING COIL CONDENSATE DRAIN		TEE OUTLET - DOWN		SMOKE DAMPER				FLOW TRANSMITTER		
CFM	CUBIC FEET PER MINUTE		UNION		COMBINATION FIRE AND SMOKE DAMPER				PRESSURE TRANSMITTER		
CHWR	CHILLED WATER RETURN		GATE VALVE		VOLUME DAMPER				DIFFERENTIAL PRESSURE TRANSMITTER		
CHWS	CHILLED WATER SUPPLY		BALL VALVE		DAMPER CONTROL, PARALLEL BLADE				ELECTRIC/PNEUMATIC TRANSDUCER		
CR	CONDENSER WATER RETURN		BALANCING VALVE		DAMPER CONTROL, OPPOSED BLADE				ELECTRIC/ELECTRONIC TRANSDUCER		
CS	CONDENSER WATER SUPPLY		STRAINER		AUTOMATIC AIR DAMPER				DUCT SMOKE DETECTOR		
CW	DOMESTIC COLD WATER		STRAINER WITH BLOW-DOWN		BACK DRAFT DAMPER				SPACE THERMOSTAT		
D	DRAIN		BUTTERFLY VALVE		BLAST GATE				SPACE TEMPERATURE SENSOR		
(E)	EXISTING		BUTTERFLY CONTROL VALVE, PNEUMATIC 2-WAY		AIR DUCT (FIRST FIGURE IS DUCT WIDTH/TOP, SECOND FIGURE IS DUCT DEPTH)				SPACE CARBON DIOXIDE SENSOR		
EA	EXHAUST AIR		BUTTERFLY CONTROL VALVE, ELECTRIC ACTUATOR		MULTI-BLADE AIR EXTRACTOR				SPACE NATURAL GAS SENSOR		
EC	ELECTRICAL CONTRACTOR		GLOBE VALVE		TURNING VANES				SPACE CARBON MONOXIDE SENSOR		
EF	EXHAUST FAN		CHECK VALVE		EXISTING WORK TO BE REMOVED (HATCHED)				SPACE SENSOR WITH GUARD		
ERHC	ELECTRIC REHEAT COIL		TRIPLE DUTY VALVE		POINT OF CONNECTION				SPACE HUMIDISTAT		
ETR	EXISTING TO REMAIN		GAS COCK, PLUG VALVE		POINT OF DISCONNECTION				WATER FLOW SENSOR		
EUH	ELECTRIC UNIT HEATER		UNDERCUT DOOR 1"		AIR FLOW SENSOR				PNEUMATIC ACTUATOR		
F&T	FLOAT AND THERMOSTATIC TRAP		LOUVERED DOOR W/ SQ. FT. OF FREE AREA		FILTER				ELECTRIC ACTUATOR		
FCU	FAN-COIL UNIT		RELIEF / SAFETY VALVE		EXPANSION JOINT				VARIABLE SPEED / FREQUENCY DRIVE		
FFM	FEET PER MINUTE		PRESSURE REDUCING VALVE		TRANSITION SQUARE TO ROUND				COOLING COIL		
FT	FIN-TUBE		VACUUM BREAKER		HUMIDIFIER DISPERSION TUBE				HEATING COIL		
GC	GENERAL CONTRACTOR		AIR VENT - MANUAL		RISE IN DUCT				GAS FURNACE		
GR	GLYCOL RETURN		AIR VENT - AUTOMATIC		DROP IN DUCT				HUMIDIFIER		
GS	GLYCOL SUPPLY		FLANGE		SQUARE CEILING DIFFUSER (4 WAY)				ALARM		
HC	HVAC CONTRACTOR		CONTROL/SOLENOID VALVE, ELECTRIC 2-WAY		ROUND CEILING DIFFUSER				STATUS		
HHWR	HEATING HOT WATER RETURN		CONTROL VALVE, ELECTRIC 3-WAY		MULTI-BLADE AIR EXTRACTOR				FLOW SWITCH		
HHWS	HEATING HOT WATER SUPPLY		CONTROL VALVE, PNEUMATIC 2-WAY		TURNING VANES				DIFFERENTIAL STATIC PRESSURE SWITCH		
HP	HEAT PUMP		CONTROL VALVE, PNEUMATIC 3-WAY		EXISTING WORK TO BE REMOVED (HATCHED)				RELAY		
HPC	HIGH PRESSURE CONDENSATE		RELIEF / SAFETY VALVE		POINT OF CONNECTION				PRESSURE GAUGE		
HPS	HIGH PRESSURE STEAM		PRESSURE REDUCING VALVE		POINT OF DISCONNECTION				FREEZE-STAT		
LF	LINEAR FOOTAGE OF FIN-TUBE RADIATION		VACUUM BREAKER		AIR FLOW SENSOR				DIGITAL INPUT (TO BUILDING MANAGEMENT SYSTEM)		
LPC	LOW PRESSURE CONDENSATE		EXPANSION JOINT		FILTER				DIGITAL OUTPUT (FROM BUILDING MANAGEMENT SYSTEM)		
LPG	LIQUEFIED PROPANE GAS		TRANSITION SQUARE TO ROUND		EXPANSION JOINT				ANALOG OUTPUT (FROM BUILDING MANAGEMENT SYSTEM)		
LPS	LOW PRESSURE STEAM		HUMIDIFIER DISPERSION TUBE		RISE IN DUCT				ANALOG INPUT (TO BUILDING MANAGEMENT SYSTEM)		
MBH	1,000 BTU/HR		DROP IN DUCT		SQUARE CEILING DIFFUSER (4 WAY)				ELECTRICAL INTERFACE		
MC	MECHANICAL CONTRACTOR		ROUND CEILING DIFFUSER		MULTI-BLADE AIR EXTRACTOR				SPEED FEED BACK		
MPC	MEDIUM PRESSURE CONDENSATE		MULTI-BLADE AIR EXTRACTOR		TURNING VANES				END SWITCH		
MPS	MEDIUM PRESSURE STEAM		EXISTING WORK TO BE REMOVED (HATCHED)		EXISTING WORK TO BE REMOVED (HATCHED)				POSITION FEEDBACK		
MRD	MONOFLO FITTING DOWN - HHWR		POINT OF CONNECTION		POINT OF DISCONNECTION				TRAVERSE AVERAGING SENSOR		
MSD	MONOFLO FITTING DOWN - HHWS		POINT OF DISCONNECTION		AIR FLOW SENSOR				PROBE SENSOR		
MUW	MAKE-UP WATER		AIR FLOW SENSOR		FILTER				FREEZE STAT SENSOR		
NC	NORMALLY CLOSED		FILTER		EXPANSION JOINT						
NG	NATURAL GAS		EXPANSION JOINT		TRANSITION SQUARE TO ROUND						
NO	NORMALLY OPEN		TRANSITION SQUARE TO ROUND		HUMIDIFIER DISPERSION TUBE						
NTS	NOT TO SCALE		HUMIDIFIER DISPERSION TUBE		RISE IN DUCT						
OA	OUTSIDE AIR		RISE IN DUCT		DROP IN DUCT						
PC	PLUMBING CONTRACTOR		DROP IN DUCT		SQUARE CEILING DIFFUSER (4 WAY)						
PD	PUMP DISCHARGE		SQUARE CEILING DIFFUSER (4 WAY)		ROUND CEILING DIFFUSER						
PHWR	PRIMARY HEATING HOT WATER RETURN		ROUND CEILING DIFFUSER		MULTI-BLADE AIR EXTRACTOR						
PHWS	PRIMARY HEATING HOT WATER SUPPLY		MULTI-BLADE AIR EXTRACTOR		TURNING VANES						
RA	RETURN AIR		TURNING VANES		EXISTING WORK TO BE REMOVED (HATCHED)						
RD	REFRIGERANT DISCHARGE		EXISTING WORK TO BE REMOVED (HATCHED)		POINT OF CONNECTION						
RHC	HOT WATER REHEAT COIL		POINT OF CONNECTION		POINT OF DISCONNECTION						
RL	REFRIGERANT LIQUID PIPE		POINT OF DISCONNECTION		AIR FLOW SENSOR						
RSL	REFRIGERANT SUCTION PIPE		AIR FLOW SENSOR		FILTER						
RTU	ROOFTOP UNIT		FILTER		EXPANSION JOINT						
RV	ROOF VENT		EXPANSION JOINT		TRANSITION SQUARE TO ROUND						
SA	SUPPLY AIR		TRANSITION SQUARE TO ROUND		HUMIDIFIER DISPERSION TUBE						
SHWR	SECONDARY HEATING HOT WATER RETURN		HUMIDIFIER DISPERSION TUBE		RISE IN DUCT						
SHWS	SECONDARY HEATING HOT WATER SUPPLY		RISE IN DUCT		DROP IN DUCT						
SSI	SPLIT SYSTEM INDOOR SECTION (EVAPORATOR SECTION)		DROP IN DUCT		SQUARE CEILING DIFFUSER (4 WAY)						
SSO	SPLIT SYSTEM OUTDOOR SECTION (CONDENSING UNIT)		SQUARE CEILING DIFFUSER (4 WAY)		ROUND CEILING DIFFUSER						
TC	TEMPERATURE CONTROLS CONTRACTOR		ROUND CEILING DIFFUSER		MULTI-BLADE AIR EXTRACTOR						
UH	UNIT HEATER		MULTI-BLADE AIR EXTRACTOR		TURNING VANES						
UV	UNIT VENTILATOR		TURNING VANES		EXISTING WORK TO BE REMOVED (HATCHED)						
V	VENT		EXISTING WORK TO BE REMOVED (HATCHED)		POINT OF CONNECTION						
WAHP	WATER-TO-AIR HEAT PUMP		POINT OF CONNECTION		POINT OF DISCONNECTION						
WWHP	WATER-TO-WATER HEAT PUMP		POINT OF DISCONNECTION		AIR FLOW SENSOR						
			AIR TERMINAL UNIT WITH REHEAT COIL		FILTER						
			AIR TERMINAL UNIT		EXPANSION JOINT						
			WALL TO WALL FIN TUBE ENCLOSURE		TRANSITION SQUARE TO ROUND						

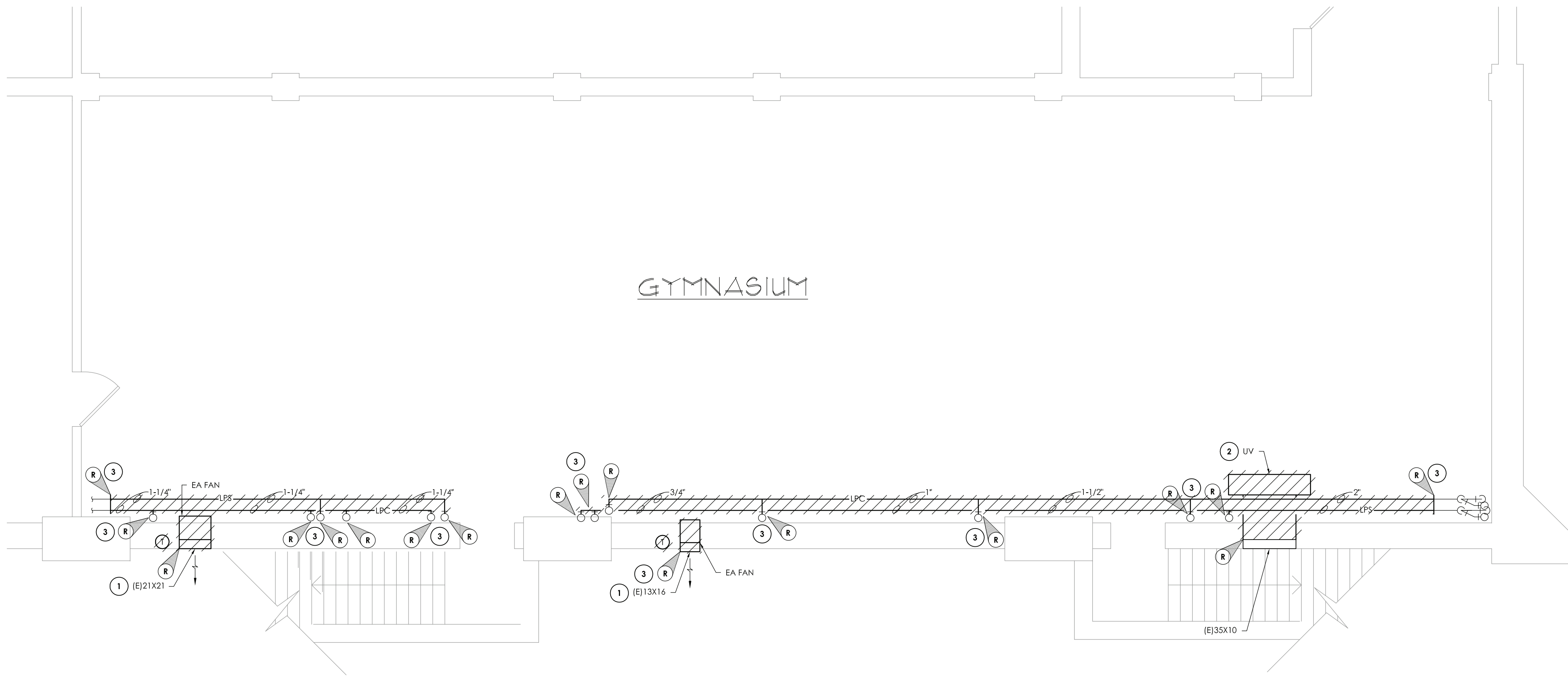
SYMBOLS GENERAL NOTES:

1) VALVE AND DAMPER ACTUATOR TYPES (ELECTRIC OR PNEUMATIC) WHICH ARE INDICATED IN HVAC TEMPERATURE CONTROL DRAWINGS SHALL SUPERSEDE TYPE INDICATED ON ALL OTHER HVAC DRAWINGS.

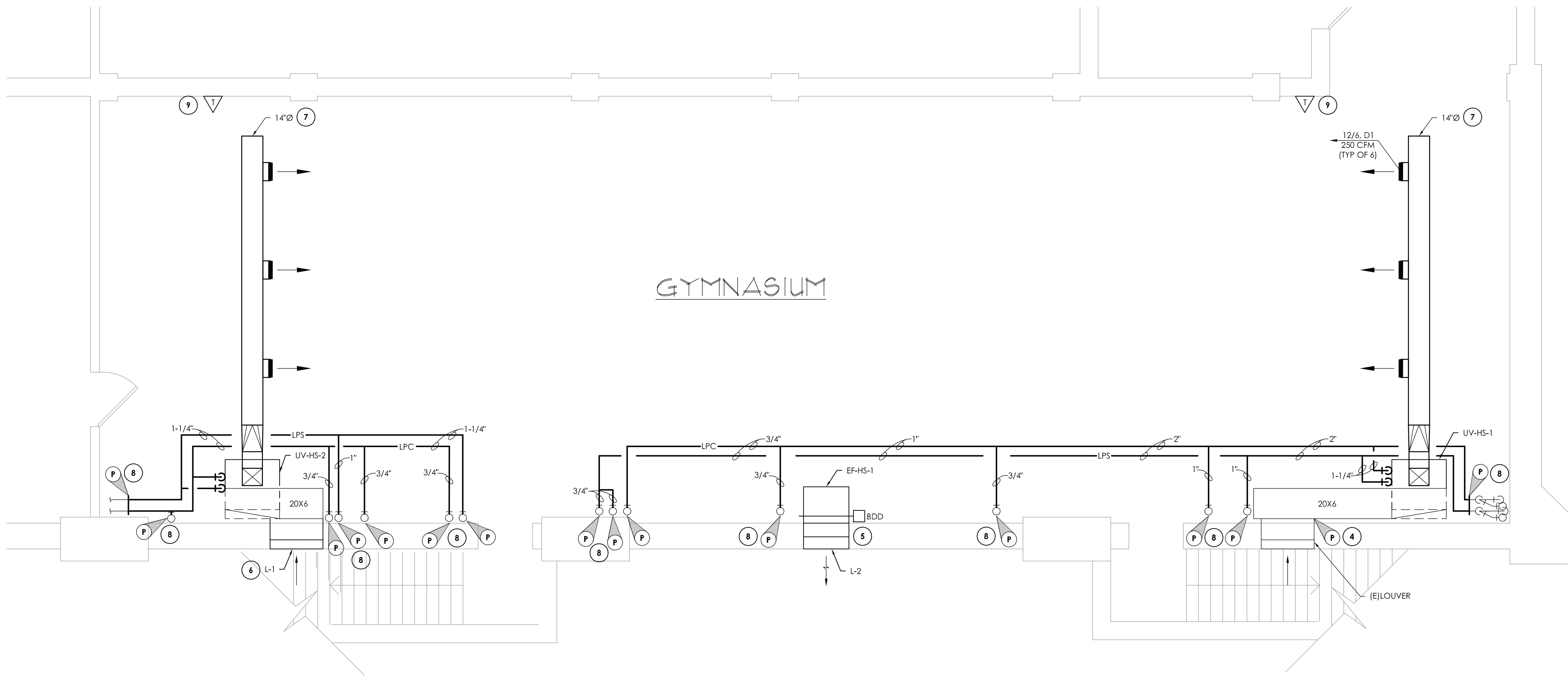
HVAC CONTRACTOR GENERAL NOTES:

- IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO FIELD VERIFY EXISTING CONDITIONS WITHIN THE BUILDING PRIOR TO COMMENCEMENT OF ALL DEMOLITION AND NEW WORK.
- IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO REMOVE AND REPLACE EXISTING CEILINGS, UNLESS OTHERWISE NOTED ON THE ARCHITECTURAL DRAWINGS, FOR PERFORMING DEMOLITION OR NEW WORK WITHIN THE BUILDING. THE EXISTING CEILINGS SHALL BE REMOVED IN A MANNER TO AVOID DAMAGE TO THE CEILING SYSTEMS. STORAGE OF CEILING SYSTEM COMPONENTS FOR REINSTALLATION IS THE RESPONSIBILITY OF THE CONTRACTOR. THE STORAGE OF ALL MATERIAL SHALL BE IN AREAS OR LOCATIONS APPROVED BY THE OWNER. THE OWNER WILL NOT COMPENSATE FOR ANY DAMAGED OR LOST MATERIAL WHILE IN STORAGE. AFTER COMPLETION OF ALL DEMOLITION OR NEW WORK, THE CONTRACTOR SHALL REINSTALL THE CEILING SYSTEMS TO MATCH THE ORIGINAL INSTALLATION.
- DEMOLITION DRAWINGS SHOW MAJOR EQUIPMENT, PIPING, AND DUCTWORK REMOVALS. THE INTENT IS NOT TO IDENTIFY ALL MISCELLANEOUS PIPING, PIPING ACCESSORIES, DUCTWORK, DUCTWORK ACCESSORIES, SUPPORTS, CONTROLS, CONTROL ACCESSORIES, CONTROL WIRING, CONDUIT, AND PNEUMATIC CONTROL TUBING TO BE DISCONNECTED AND REMOVED, BUT IS THE REQUIREMENT UNDER THIS CONTRACT. NO EQUIPMENT, PIPING, OR DUCTWORK SHALL BE ABANDONED IN PLACE, UNLESS OTHERWISE NOTED ON THE DRAWINGS.
- ALL EQUIPMENT INDICATED TO BE TURNED OVER TO THE OWNER SHALL BE DISCONNECTED AND REMOVED FROM THE EXISTING SYSTEMS AND DELIVERED (INCLUDING LOADING AND UNLOADING) TO A STORAGE AREA WITHIN THE BUILDING AS SELECTED BY THE OWNER. IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO REPAIR ANY EQUIPMENT DAMAGED DURING REMOVAL AND DELIVERY. ANY DAMAGE TO EQUIPMENT PRIOR TO DISCONNECTING SHOULD BE REPORTED TO THE OWNER'S REPRESENTATIVE. IF NOT REPORTED, THE CONTRACTOR TAKES FULL RESPONSIBILITY FOR REPAIRS TO THE EQUIPMENT.
- BEFORE DISCONNECTING, REMOVING, OR SERVICING ANY AIR CONDITIONING EQUIPMENT OR SYSTEMS CONTAINING REFRIGERANTS, THE EQUIPMENT OR SYSTEMS SHALL BE EVACUATED OF ALL REFRIGERANT PER THE LATEST ADOPTED RULES AND REGULATIONS BY THE UNITED STATES ENVIRONMENTAL PROTECTION AGENCY (EPA). THE CONTRACTOR OR TECHNICIAN PERFORMING THE WORK SHALL BE CERTIFIED BY AN EPA APPROVED CERTIFYING AGENCY OR ORGANIZATION.
- ALL DUCTWORK, PIPING, AND CONDUIT PENETRATIONS THROUGH RATED WALLS OR FLOORS SHALL BE PROVIDED WITH FIRE/SMOKE STOPPINGS PER SPECIFICATION. REFER TO CODE ANALYSIS DRAWING FOR ALL RATED WALL LOCATIONS. ALL FLOORS SHALL BE CONSIDERED RATED.
- UNLESS SHOWN ON THE ARCHITECTURAL DRAWINGS, IT IS THE RESPONSIBILITY OF THIS CONTRACT TO PATCH AND FINISH ALL EXISTING DUCTWORK OR PIPE PENETRATIONS THROUGH FLOORS, ROOFS, INTERIOR WALLS, AND EXTERIOR WALLS AFTER DEMOLITION WORK. IN ADDITION, ALL NEW PENETRATIONS SHALL BE PROVIDED FOR INSTALLATION OF MECHANICAL SYSTEMS INCLUDING, BUT NOT LIMITED TO, EQUIPMENT, CURBING, DUCTWORK, PIPING, CONTROLS, ETC.

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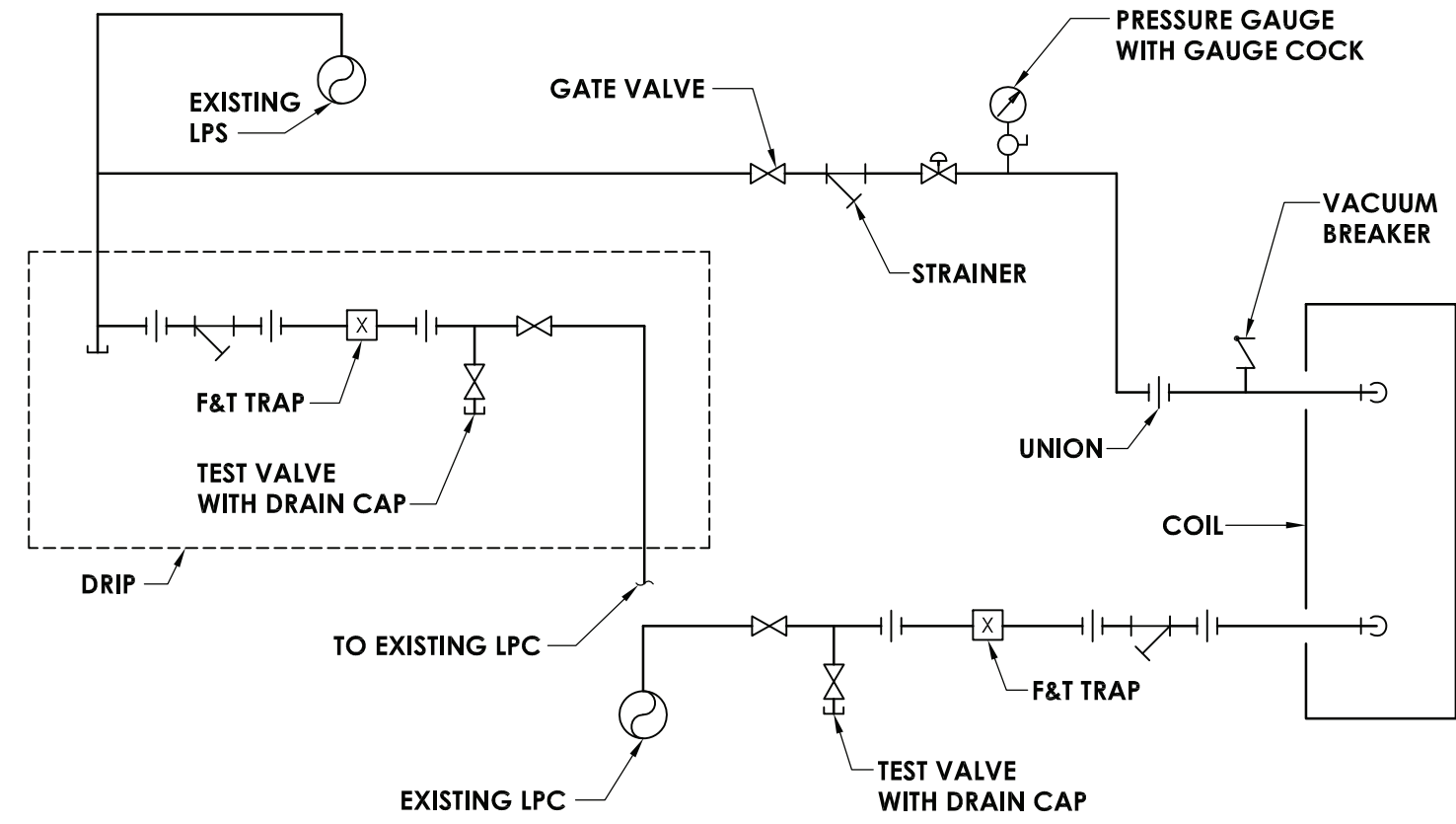
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H100
SCALE: 1/4" = 1'-0"

GENERAL NOTES:

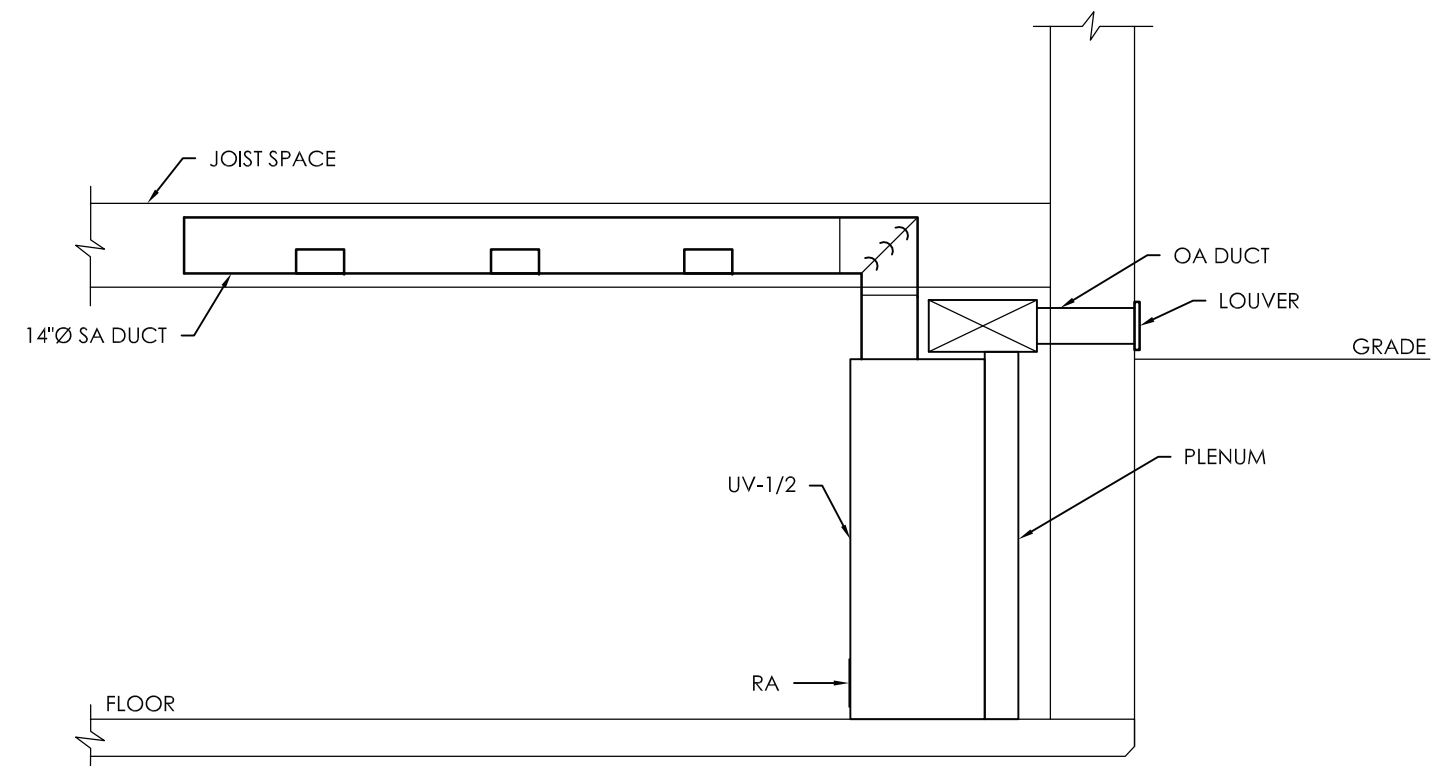
1. FIELD VERIFY ALL PIPING SIZES.

KEY NOTES:

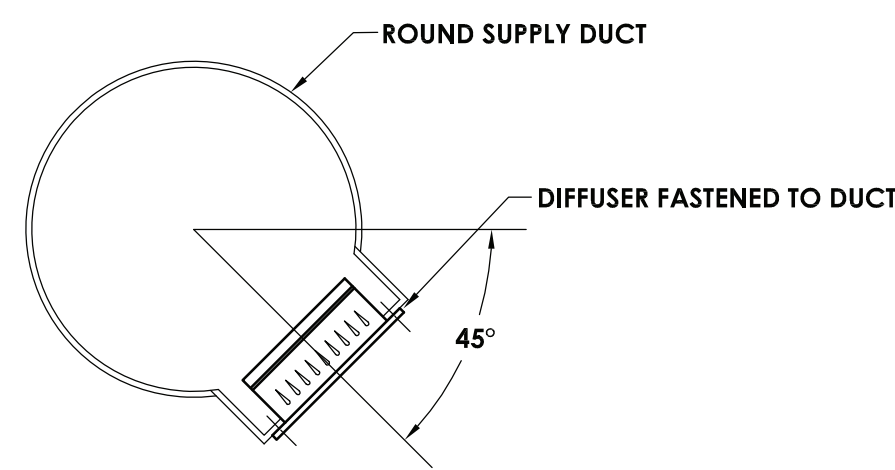
1. REMOVE EXISTING EXHAUST FAN, CONTROLS AND ASSOCIATED LOUVER. PREPARE OPENINGS FOR NEW LOUVER.
2. REMOVE EXISTING UNIT VENTILATOR, STEAM AND CONDENSATE PIPING, CONTROLS AND DUCTWORK. PREPARE FLOOR FOR PATCHING.
3. REMOVE EXISTING STEAM AND CONDENSATE MAINS TO POINTS INDICATED. PREPARE ALL REMAINING RISERS AND PIPES FOR NEW CONNECTION.
4. CONNECT NEW 20"x6" PLENUM DUCTWORK TO EXISTING OUTDOOR AIR LOUVER. MAKE PROVISIONS FOR PROPER TRANSITION.
5. PROVIDE NEW 30"x30" LOUVER. EXPAND OPENING AND PROVIDE NEW UNTEL TO ACCOMMODATE NEW RELIEF FAN. CONNECT TO EXISTING ANDOVER BMS. INTERLOCK WITH UV OPERATIONS.
6. PROVIDE NEW 35"x10" LOUVER. EXPAND OPENING AND PROVIDE NEW UNTEL TO ACCOMMODATE NEW OUTDOOR AIR DUCTWORK CONNECTION. REMOVE OR RELOCATE CHAIN LINK FENCING AS REQUIRED TO INSTALL THE NEW LOUVER. RE-INSTALL AFTER THE WORK IS COMPLETED.
7. ROLL 14"Ø DUCTWORK UP INTO JOIST SPACE. COORDINATE WITH EXISTING LIGHTING AND OTHER UTILITIES. POINT SIDE MOUNTED GRILLES DOWN 45° TOWARDS THE FLOOR. ROUTE DUCT IN BAYS WITHOUT LIGHTING.
8. CONNECT NEW STEAM AND CONDENSATE MAINS TO EXISTING MAINS AND RISERS AT POINTS INDICATED. ROUTE NEW MAINS AT THE SAME ELEVATION AS THE PIPING THAT WAS REMOVED. MAINTAIN ALL REQUIRED PIPING PITCHES. COORDINATE PIPING MAINS WITH LIGHTING AND NEW EQUIPMENT. RE-INSULATE ALL PIPING PER SPECIFICATIONS.
9. CONNECT NEW UNIT CONTROLS TO EXISTING ANDOVER CONTROLS SYSTEM.



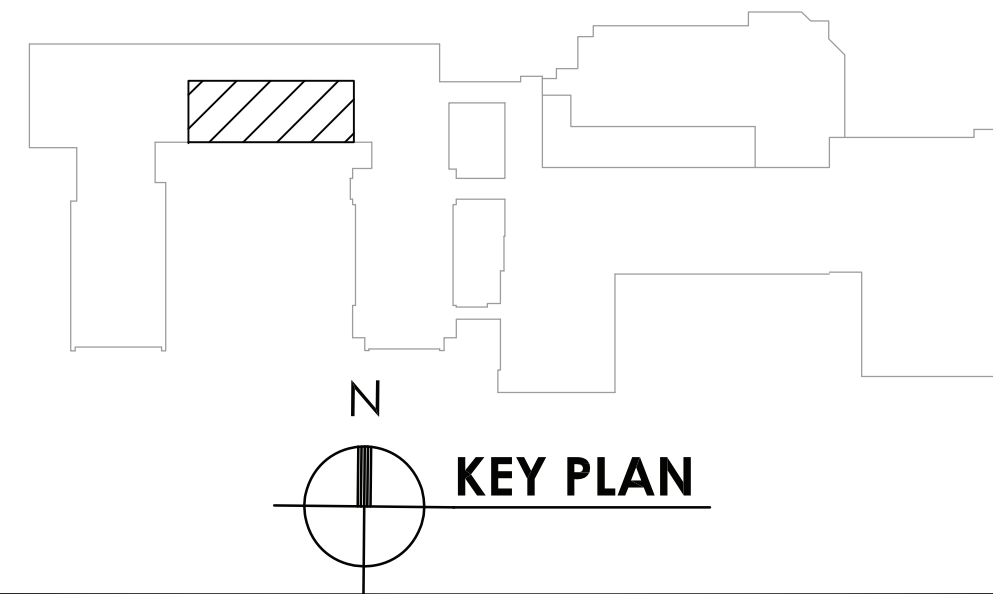
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H100
NOT TO SCALE



4
H100
SCALE: NOT TO SCALE

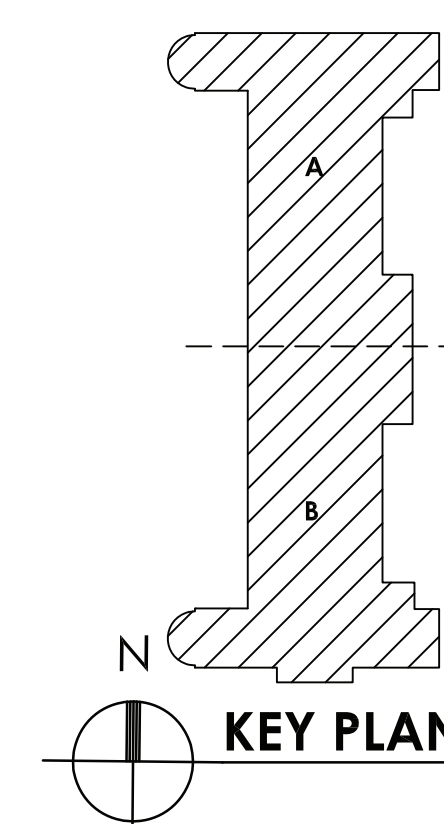


5
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NOT TO SCALE



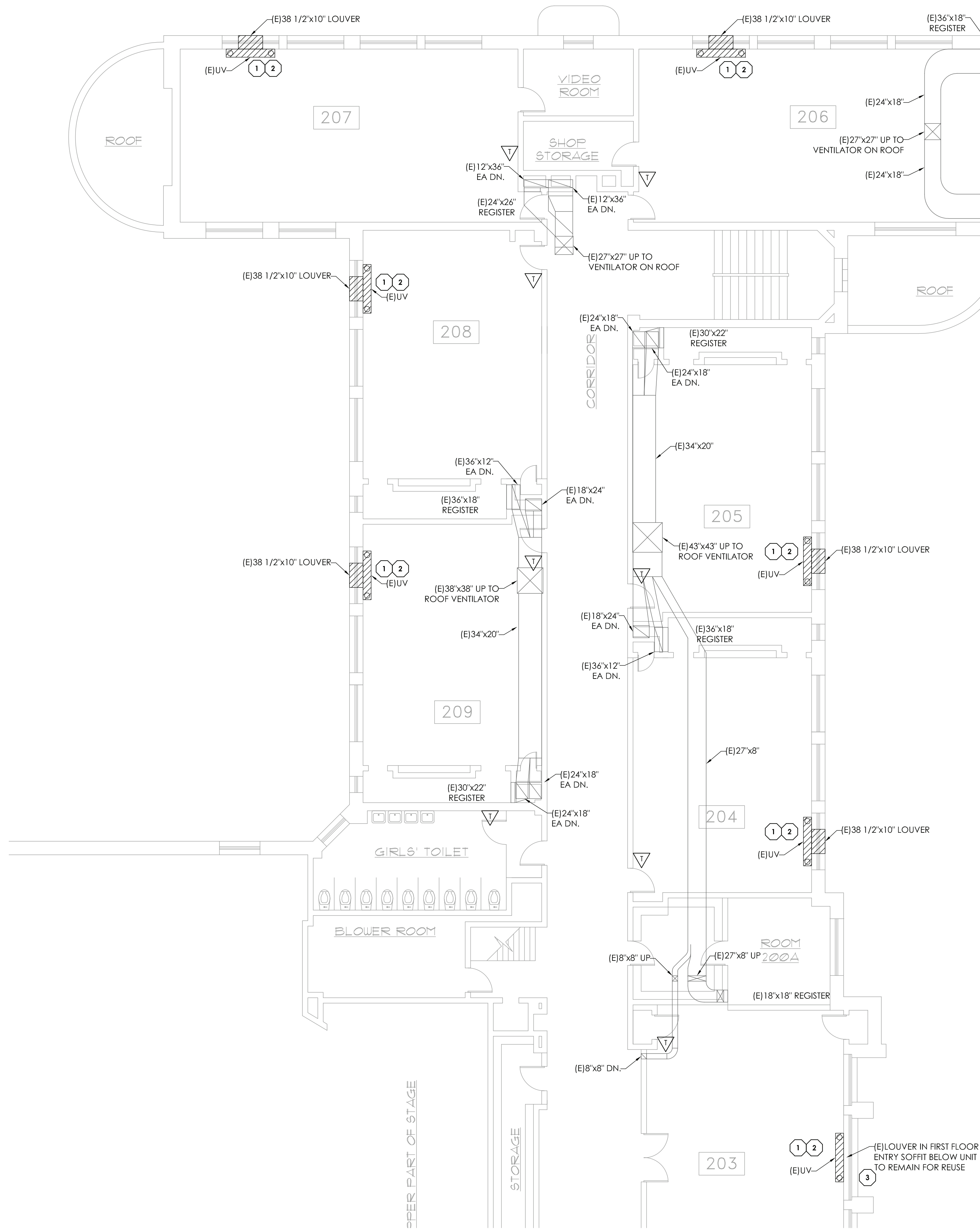
1. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO REMOVE AND REPLACE EXISTING CEILINGS TO PERFORM ANY DEMOLITION OR NEW WORK. ANY EXISTING CEILINGS REQUIRING REMOVAL TO COMPLETE WORK SHALL BE REMOVED IN A MANNER TO AVOID DAMAGE AND BE REUSED. STORAGE OF CEILING SYSTEM COMPONENTS FOR REINSTALLATION IS THE RESPONSIBILITY OF THE CONTRACTOR. THE STORAGE OF ALL MATERIALS SHALL BE IN AREAS OR LOCATIONS APPROVED BY THE OWNER. THE OWNER WILL NOT COMPENSATE FOR ANY DAMAGED OR LOST MATERIAL WHILE IN STORAGE. AFTER COMPLETION OF ALL DEMOLITION OR NEW WORK, THE CONTRACTOR SHALL REINSTALL THE CEILING SYSTEMS TO MATCH THE ORIGINAL INSTALLATION.

- 1 REMOVE EXISTING UNIT VENTILATOR, WALL LOUVER, SLEEVE, GRILLE, AND DUCTWORK IN ITS ENTIRETY INCLUDING ALL ASSOCIATED ACCESSORIES. PREPARE WALL OPENING FOR NEW LOUVER. EXTRACT AND RETAIN EXISTING CONTROLS FOR RE-INSTALLATION.
- 2 REMOVE EXISTING STEAM PIPING, CONDENSATE RETURN PIPING AND TRAP TO POINT BELOW FLOOR IN CRAWL SPACE. PREPARE PIPING FOR NEW UV. INFILL EXISTING FLOOR PENETRATIONS AS REQUIRED TO MATCH EXISTING MATERIALS AND FINISHES.



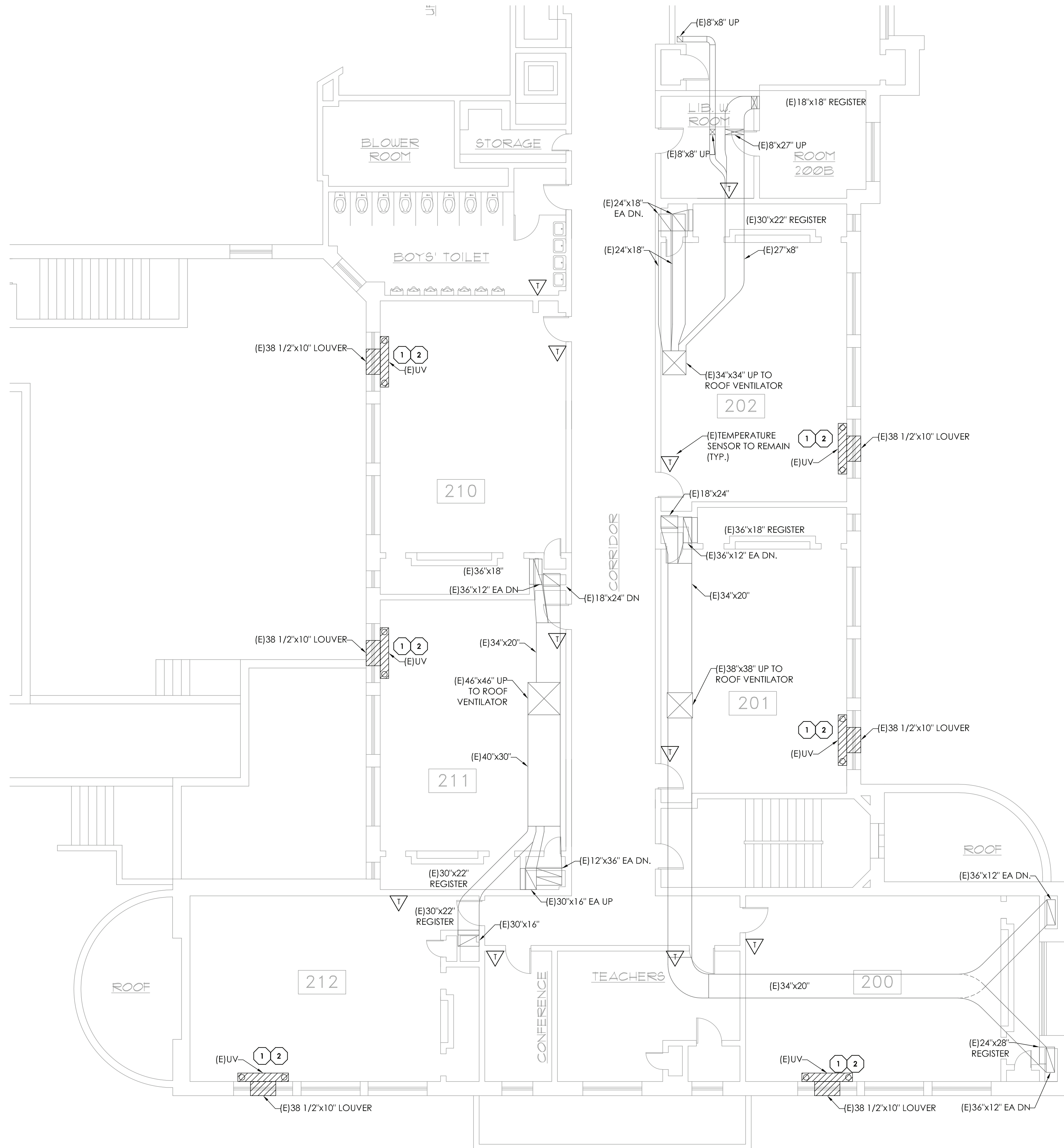
PARK EARLY CHILDHOOD CENTER SED #66-14-01-03-0-004-023
OSSINING HIGH SCHOOL SED #66-14-01-03-0-003-042

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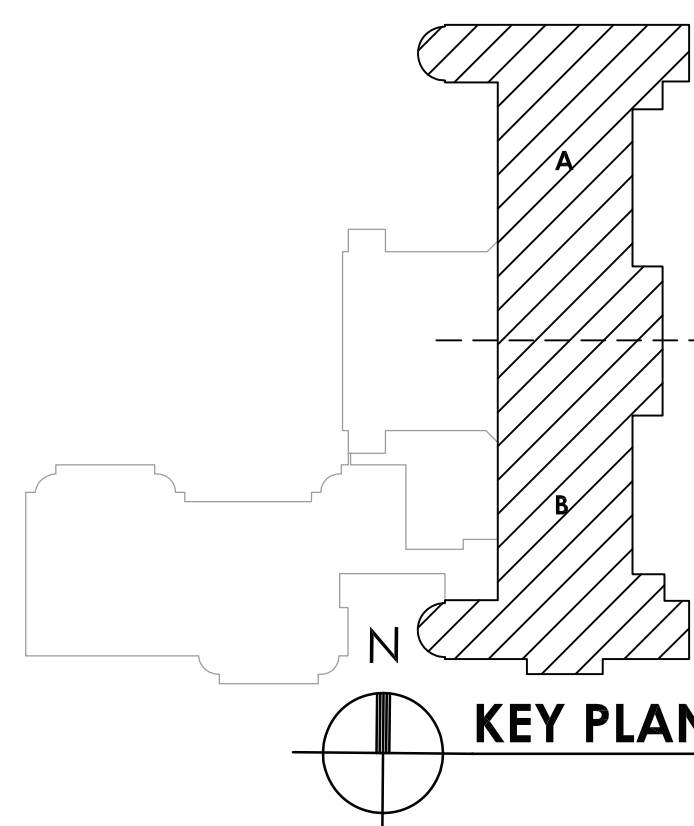
1
H102
SCALE: 1/8" = 1'-0"

SECOND FLOOR HVAC DEMOLITION PLAN - AREA A



2
H102
SCALE: 1/8" = 1'-0"

SECOND FLOOR HVAC DEMOLITION PLAN - AREA B

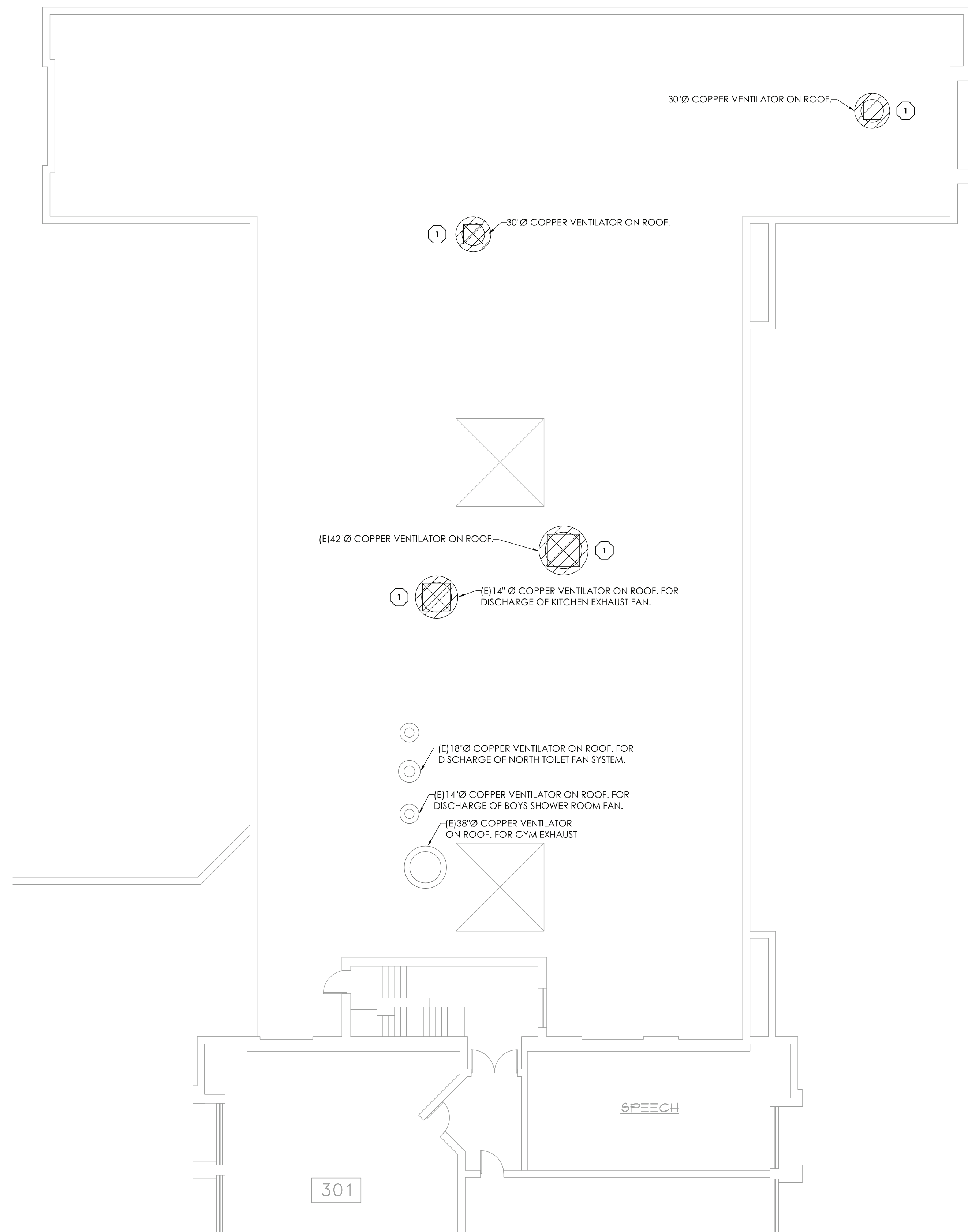


GENERAL NOTES:

1. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO REMOVE AND REPLACE EXISTING CEILINGS TO PERFORM ANY DEMOLITION OR NEW WORK. ANY EXISTING CEILINGS REQUIRING REMOVAL TO COMPLETE WORK SHALL BE REMOVED IN A MANNER TO AVOID DAMAGE AND BE REUSED. STORAGE OF CEILING SYSTEM COMPONENTS FOR REINSTALLATION IS THE RESPONSIBILITY OF THE CONTRACTOR. THE STORAGE OF ALL MATERIALS SHALL BE IN AREAS OR LOCATIONS APPROVED BY THE OWNER. THE OWNER WILL NOT COMPENSATE FOR ANY DAMAGED OR LOST MATERIAL WHILE IN STORAGE. AFTER COMPLETION OF ALL DEMOLITION OR NEW WORK, THE CONTRACTOR SHALL REINSTALL THE CEILING SYSTEMS TO MATCH THE ORIGINAL INSTALLATION.

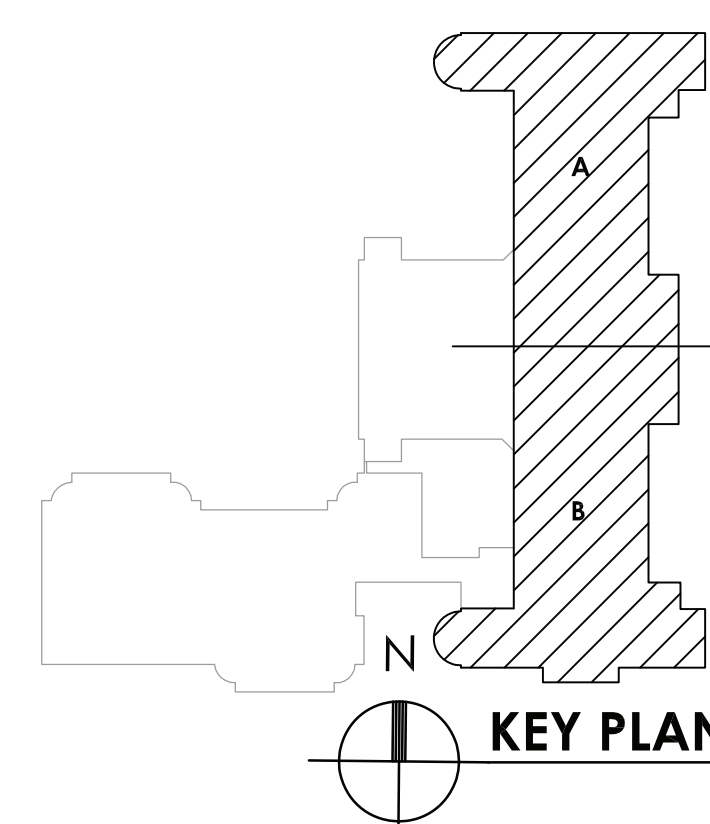
KEY NOTES:

- 1 REMOVE EXISTING UNIT VENTILATOR, WALL LOUVER, SLEEVE, GRILLE, AND DUCTWORK IN ITS ENTIRETY INCLUDING ALL ASSOCIATED ACCESSORIES. PREPARE WALL OPENING FOR NEW LOUVER. EXTRACT AND RETAIN EXISTING CONTROLS FOR RE-INSTALLATION.
- 2 REMOVE EXISTING STEAM PIPING, CONDENSATE RETURN PIPING AND TRAP TO POINT BELOW FLOOR IN FIRST FLOOR CEILING. PREPARE PIPING FOR NEW UV. INFILL EXISTING FLOOR PENETRATIONS AS REQUIRED TO MATCH EXISTING MATERIALS AND FINISHES.
- 3 EXISTING LOUVER AND INTAKE DUCTWORK DIRECTLY BELOW UNIT SHALL REMAIN FOR REUSE. REMOVE ANY OBSTRUCTIONS AND PREPARE FOR RECONNECTION TO NEW UNIT VENTILATOR.



1
H103 **ROOF HVAC DEMOLITION PLAN - AREA A**
SCALE: 1/8" = 1'-0"

2 ROOF HVAC DEMOLITION PLAN - AREA B
H103 SCALE: 1/8" = 1'-0"



KEY NOTES:

- 1 REMOVE EXISTING GRAVITY VENT AND CURB. PREPARE FOR NEW CURB. INFILL DECKING MATERIAL AS REQUIRED. REFER TO ROOF SUPPORT DETAILS FOR ADDITIONAL REQUIREMENTS. COORDINATE WITH THE OWNER AND THE EXISTING ROOFING MANUFACTURER TO MAINTAIN THE WARRANTY ON THE ROOF. ALL ROOFING WORK SHALL BE PER THE ROOFING MANUFACTURER'S AND NRCA REQUIREMENTS AND RECOMMENDATIONS.



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OSSINING UNION FREE SCHOOL DISTRICT

HVAC IMPROVEMENTS

PARK EARLY CHILDHOOD CENTER SED #66-14-01-03-0-004-023

SED #66-14-01-03-0-003-042

DATE 8/28/2020	DRAWN KAB	CHECKED JJM
SCALE AS NOTED		
SHEET TITLE ROOF HVAC DEMOLITION PLAN		

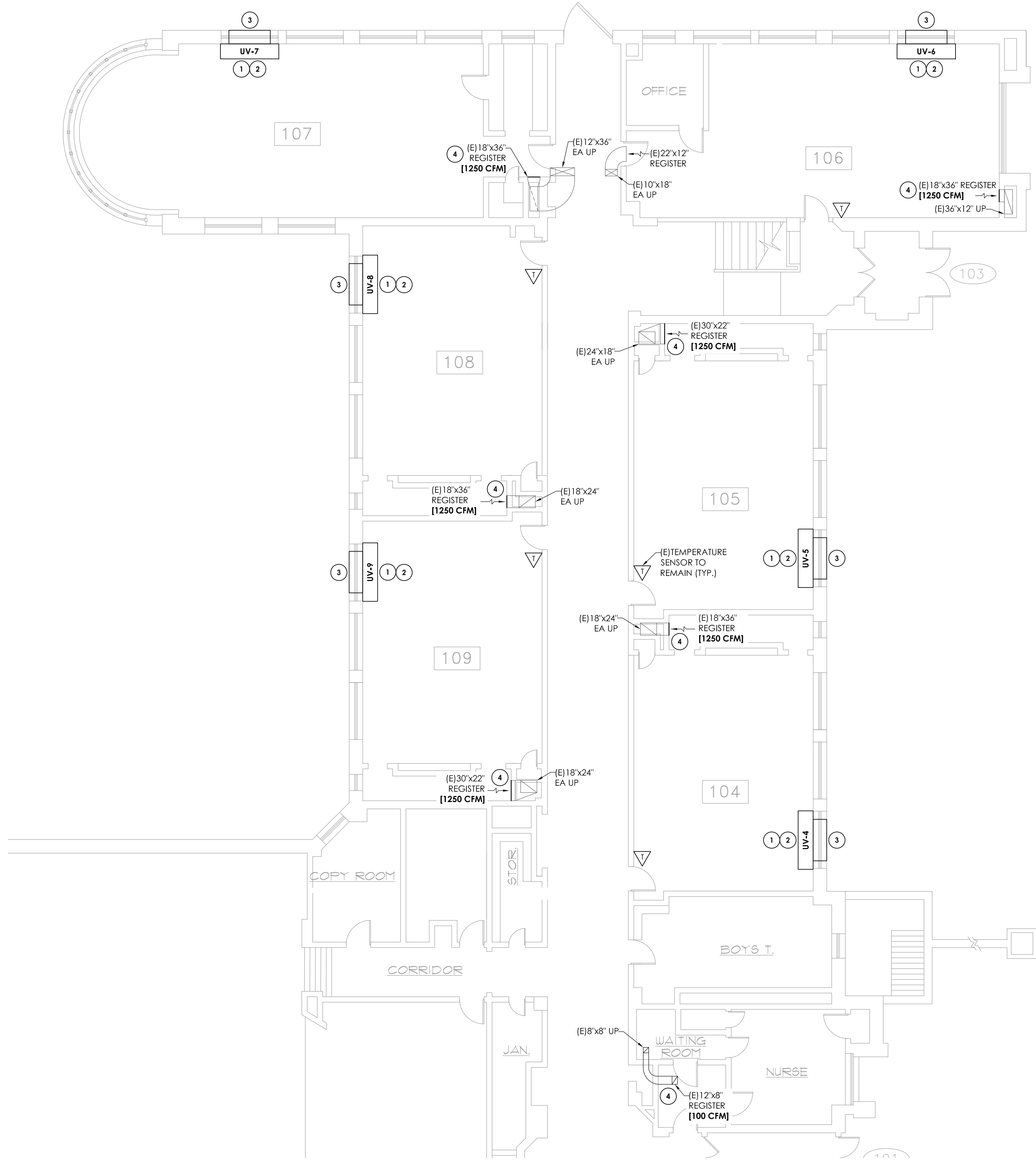
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14428.16/17

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H103

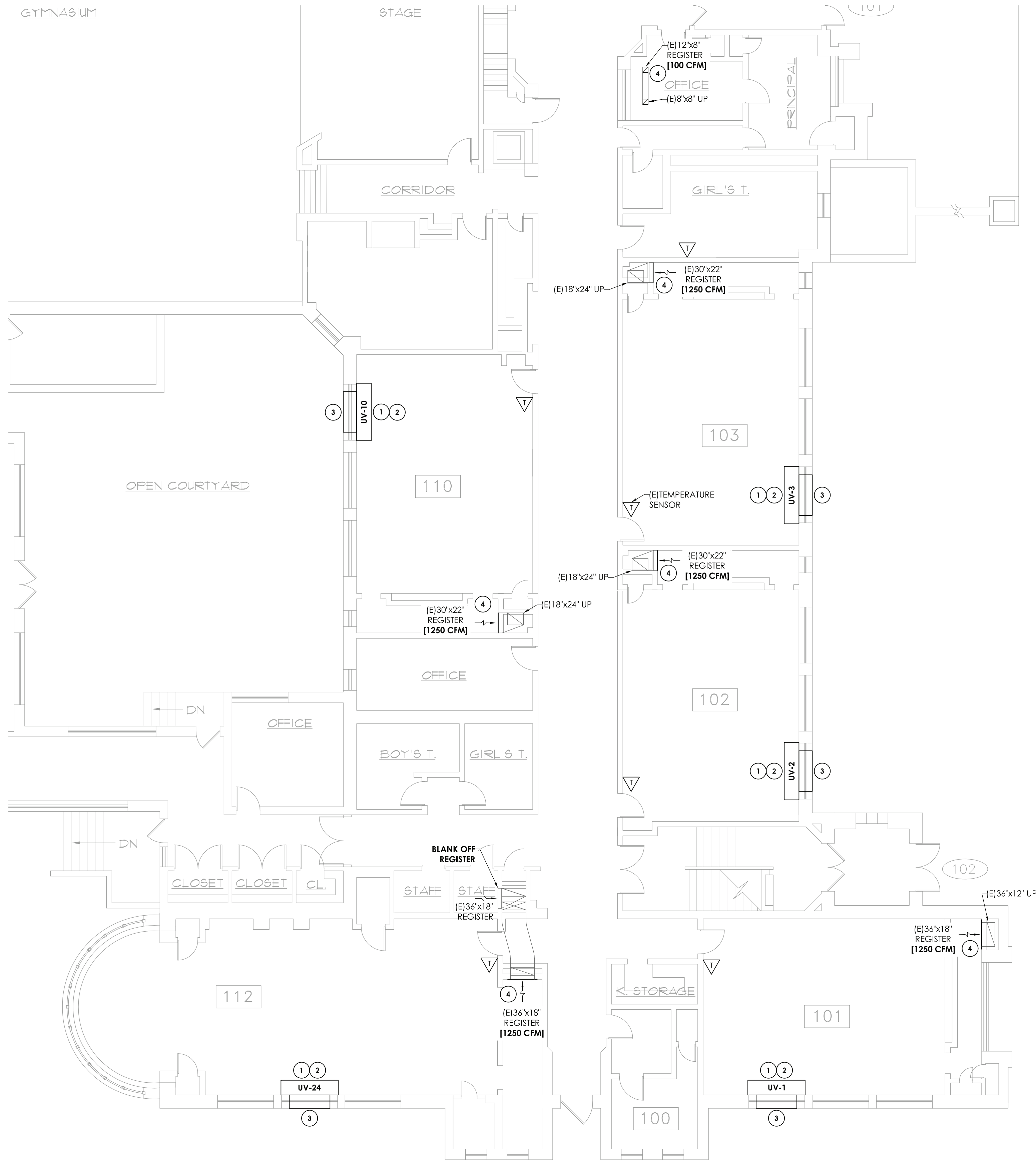
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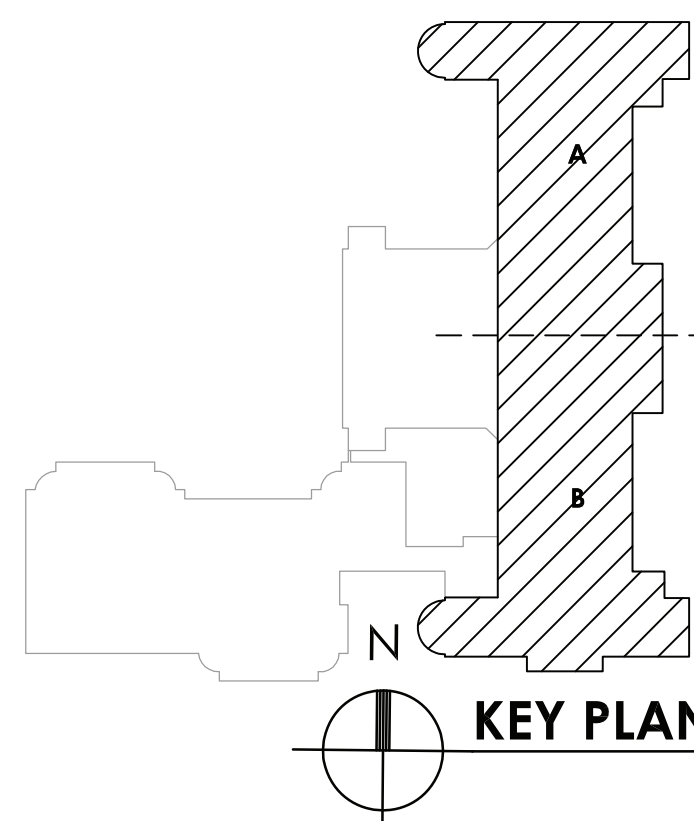
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Date last accessed: 11/24/2020 10:54 AM
Date last plotted: 1/6/2021 8:30 AM
Plotted By: James Masullo



1
H201
FIRST FLOOR HVAC NEW WORK PLAN - AREA A
SCALE: 1/8" = 1'-0"



2
H201
FIRST FLOOR HVAC NEW WORK PLAN - AREA B
SCALE: 1/8" = 1'-0"



GENERAL NOTES:

1. REBALANCE ALL GRILLES TO AIRFLOW RATES INDICATED IN BRACKETS [].

KEY NOTES:

1. PROVIDE NEW UNIT VENTILATOR, LOUVER, AND LOUVER SLEEVE. UNIT VENTILATOR SHALL INCLUDE A TWO-INCH STEP DOWN TO ALLOW INSTALLATION BELOW THE EXISTING WINDOW SILL. MODIFY VERTICAL SILL TRIM AS REQUIRED TO FACILITATE UNIT INSTALLATION FLUSH WITH WALL. FIELD VERIFY THE REQUIRED STEP DOWN HEIGHT AND CABINET DEPTH PRIOR TO SUBMITTING AND ORDERING EQUIPMENT. ROUTE PIPING IN UNIT VENTILATOR PIPE PORTAL. AVOID ROUTING PIPING IN FRONT OF LOUVERS. PROVIDE HARD DUCTED SLEEVE TO NEW LOUVER AND SEAL WEATHER TIGHT. PATCH AND REPAIR ALL DISTURBED PORTIONS OF EXISTING WALLS AND FLOOR TO MATCH EXISTING MATERIALS AND FINISHES.
2. PROVIDE NEW FLOOR PENETRATIONS ALIGNING WITH NEW UNIT VENTILATOR END POCKET PIPE PORTAL. EXTEND AND CONNECT STEAM AND CONDENSATE RETURN PIPING FROM CRAWL SPACE TO UNIT VENTILATOR. REINSTALL EXISTING CONTROLS AND PROVIDE NEW STEAM TRAPS.
3. MODIFY EXISTING OUTDOOR AIR OPENING IN EXTERIOR WALL TO ACCOMMODATE NEW LOUVER. PROVIDE NEW LINTEL. SEE UV AND LINTEL SCHEDULE FOR SIZES.
4. PROVIDE NEW OPPOSED BLADE DAMPER SIZED TO MATCH EXISTING REGISTER. INSTALL CONCEALED BEHIND EXISTING REGISTER.



OSSINING UNION FREE SCHOOL DISTRICT

HVAC IMPROVEMENTS

PARK EARLY CHILDHOOD CENTER SED #66-14-01-03-0-004-023

SED #66-14-01-03-0-003-042

DATE	DRAWN	CHECKED
8/28/2020	DLB	AMT

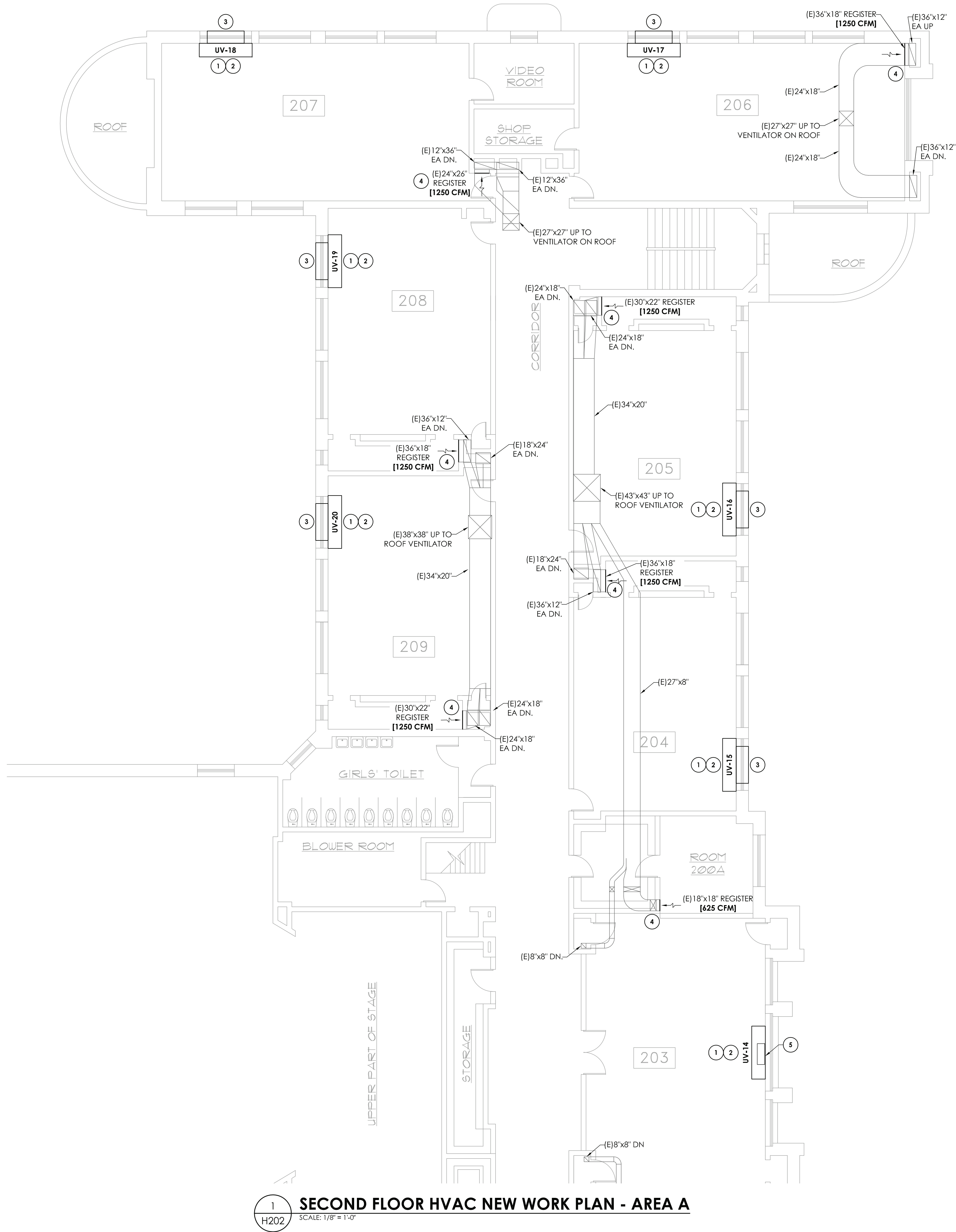
SCALE	AS NOTED
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SHEET TITLE
FIRST FLOOR HVAC NEW WORK PLAN

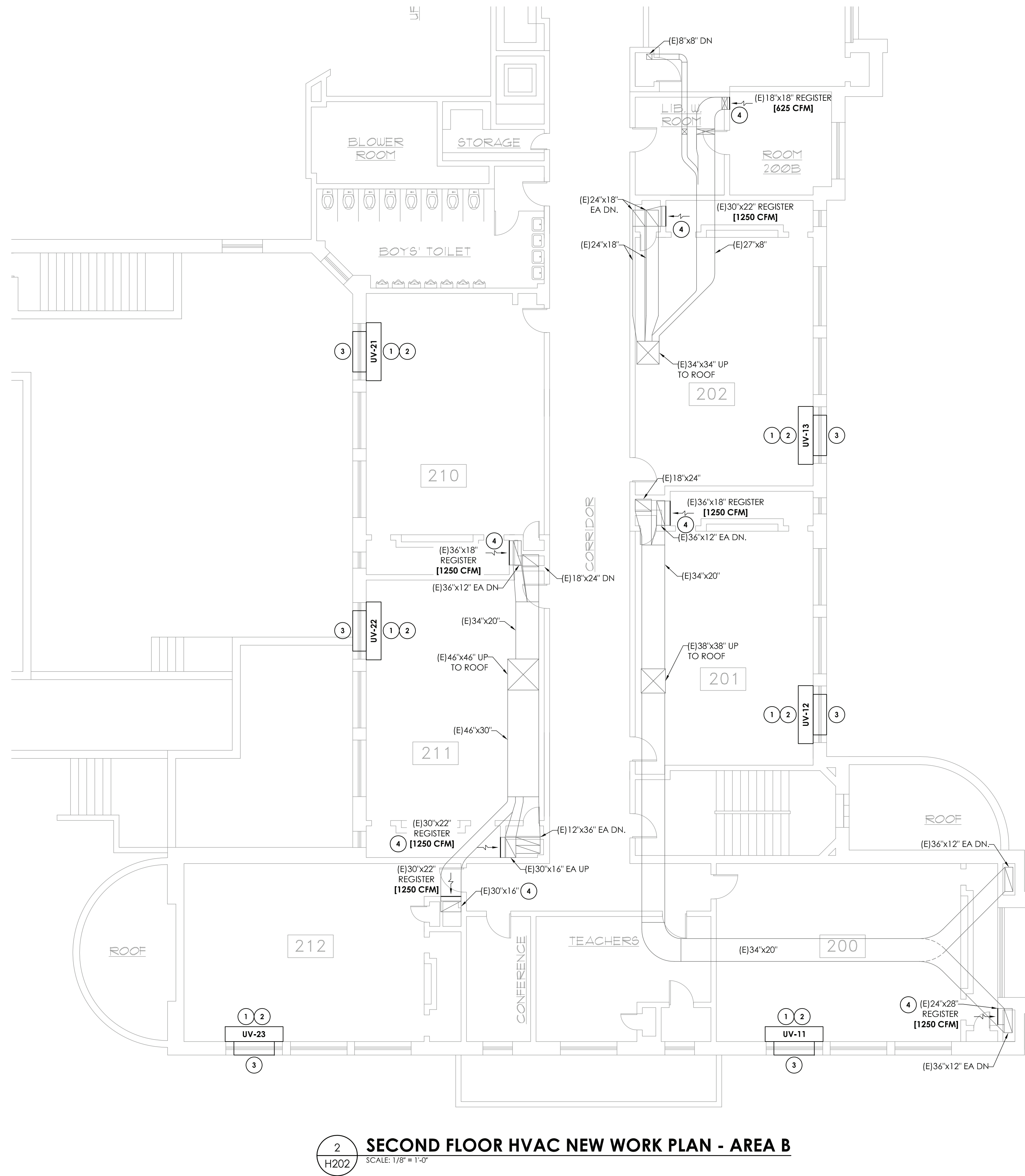
PROJECT NUMBER
14428.16/17

PES H201
DRAWING NUMBER

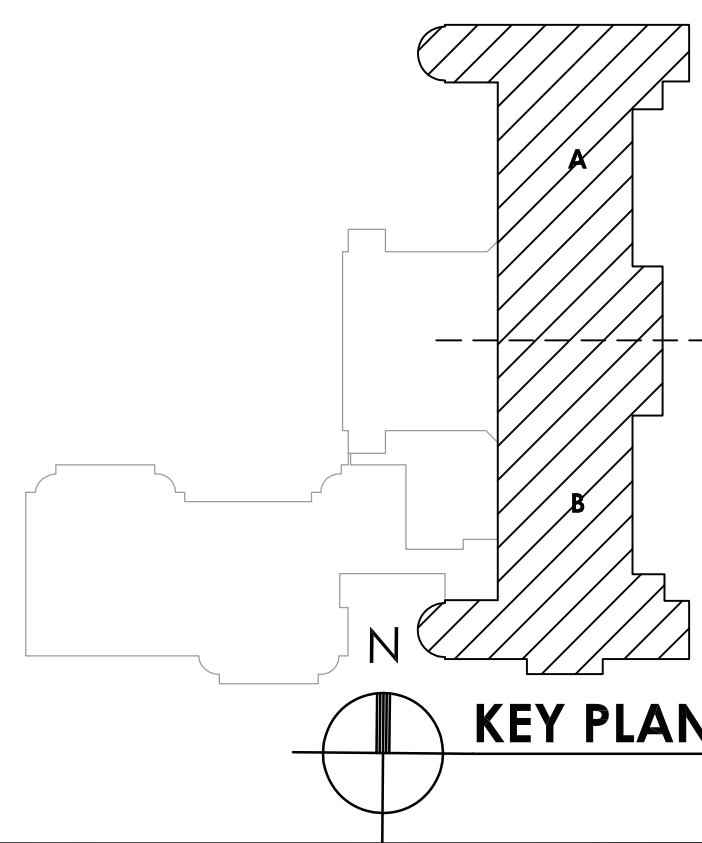
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Date last accessed: 11/24/2020 2:33 PM
Date last plotted: 1/6/2021 8:32 AM
Plotted By: James Masullo



1
H202
SECOND FLOOR HVAC NEW WORK PLAN - AREA A
SCALE: 1/8" = 1'-0"



2
H202
SECOND FLOOR HVAC NEW WORK PLAN - AREA B
SCALE: 1/8" = 1'-0"



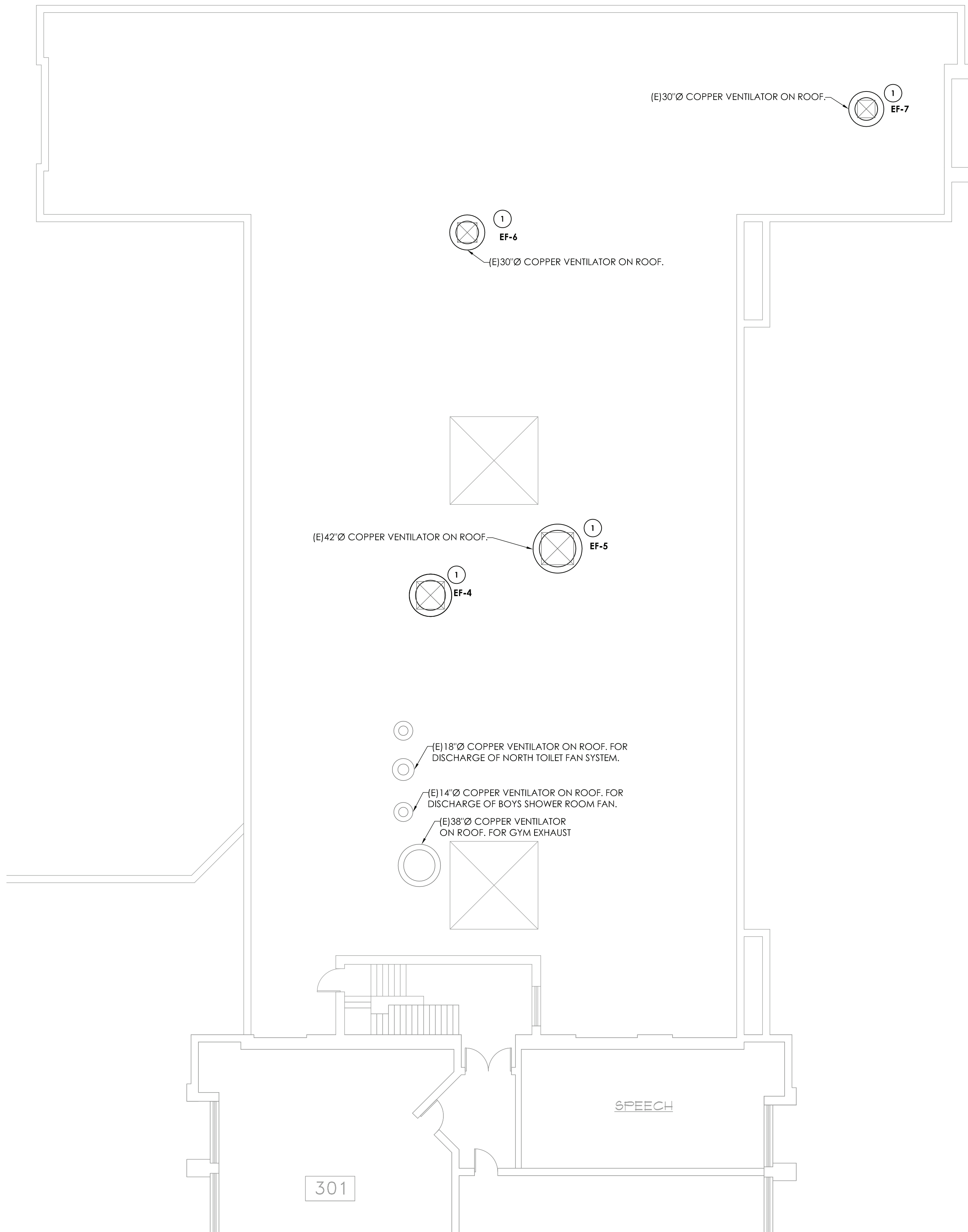
GENERAL NOTES:

1. REBALANCE ALL GRILLES TO AIRFLOW RATES INDICATED IN BRACKETS [].

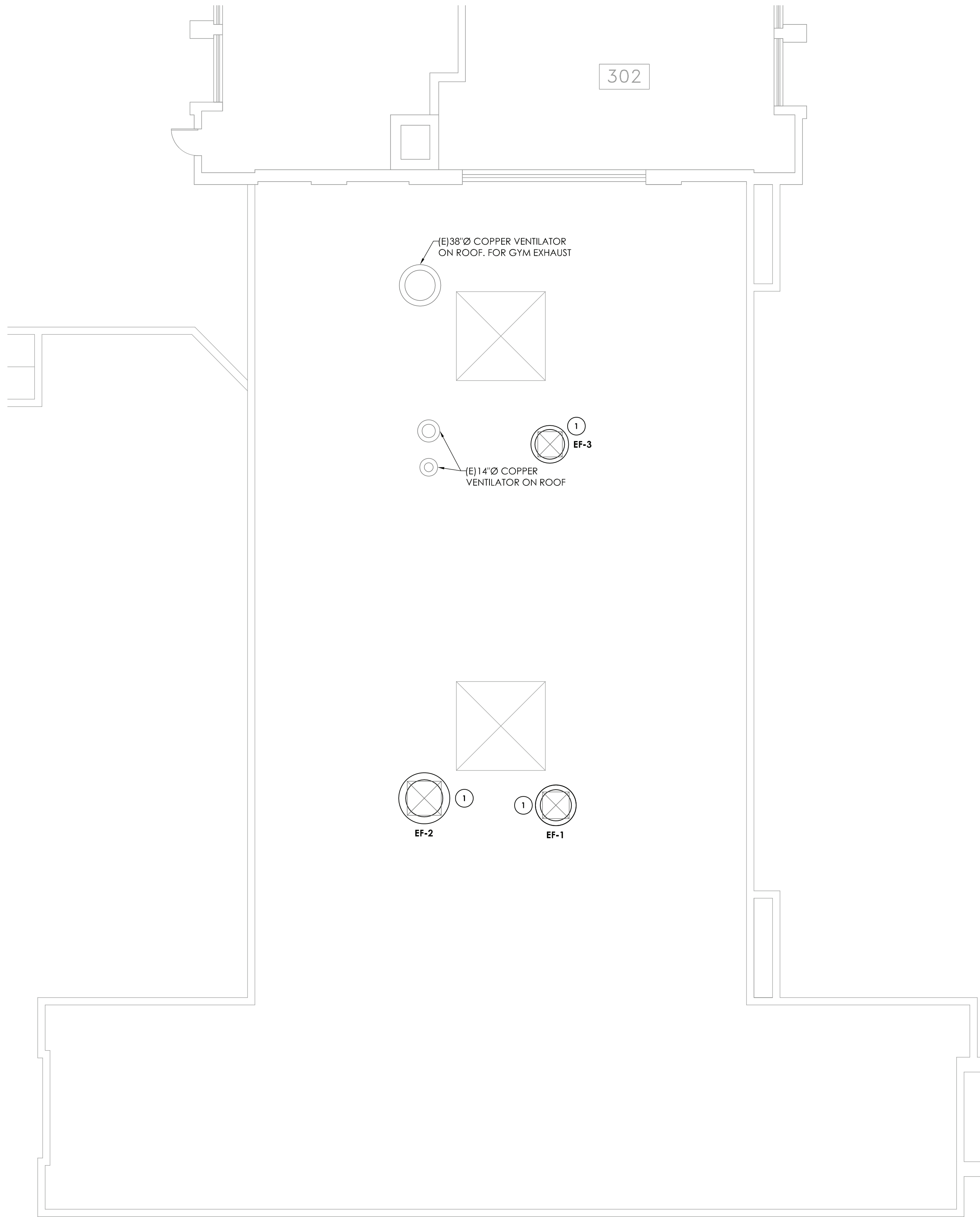
KEY NOTES:

1. PROVIDE NEW UNIT VENTILATOR, LOUVER, AND LOUVER SLEEVE. UNIT VENTILATOR SHALL INCLUDE A TWO-INCH STEP DOWN TO ALLOW INSTALLATION BELOW THE EXISTING WINDOW SILL. MODIFY VERTICAL SILL TRIM AS REQUIRED TO FACILITATE UNIT INSTALLATION FLUSH WITH WALL. FIELD VERIFY THE REQUIRED STEP DOWN HEIGHT AND CABINET DEPTH PRIOR TO SUBMITTING AND ORDERING EQUIPMENT. ROUTE PIPING IN UNIT VENTILATOR PIPE PORTAL. AVOID ROUTING PIPING IN FRONT OF LOUVERS. PROVIDE HARD DUCTED SLEEVE TO NEW LOUVER AND SEAL WEATHER TIGHT. PATCH AND REPAIR ALL DISTURBED PORTIONS OF EXISTING WALLS AND FLOOR TO MATCH EXISTING MATERIALS AND FINISHES.
2. PROVIDE NEW FLOOR PENETRATIONS ALIGNING WITH NEW UNIT VENTILATOR END POCKET PIPE PORTAL LOCATION. EXTEND AND CONNECT STEAM AND CONDENSATE RETURN PIPING FROM CRAWL SPACE TO UNIT VENTILATOR. REINSTALL EXISTING CONTROLS AND PROVIDE NEW STEAM TRAPS.
3. MODIFY EXISTING OUTDOOR AIR OPENING IN EXTERIOR WALL TO ACCOMMODATE NEW LOUVER. PROVIDE NEW LINTEL. SEE UV AND LINTEL SCHEDULE FOR SIZES.
4. PROVIDE NEW OPPOSED BLADE DAMPER SIZED TO MATCH EXISTING REGISTER. INSTALL CONCEALED BEHIND EXISTING REGISTER.
5. ALIGN NEW UV OUTSIDE AIR INTAKE PLENUM DIRECTLY OVER EXISTING INTAKE OPENING IN FLOOR. OWNER SHALL FUR OUT WALL AS NECESSARY TO FACILITATE UV INSTALLATION OVER INTAKE OPENING.

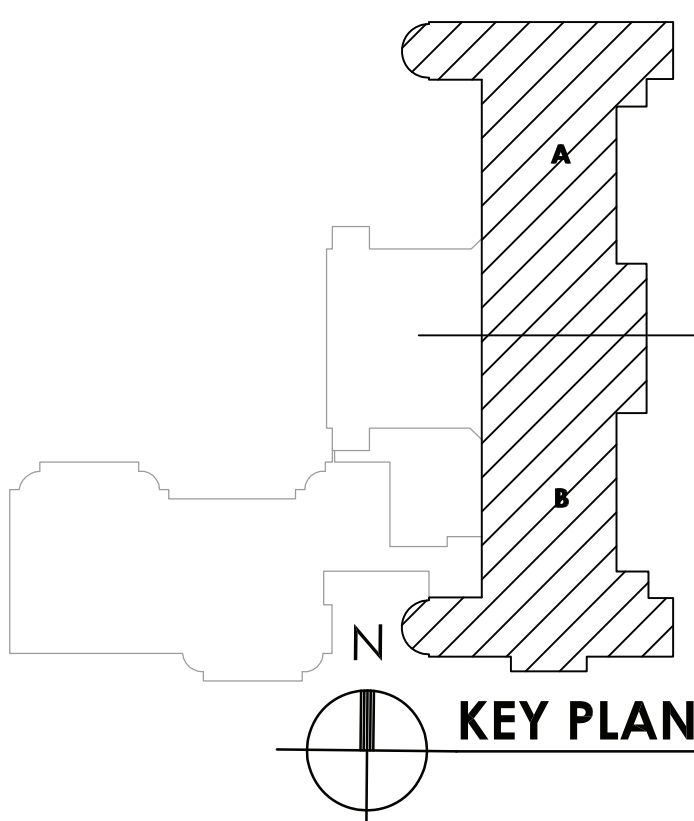
Drawing Name: S:\Projects\Ossining UFSD\Park ECC LUV Rep\VD Design\06 CAD\AutoCAD\Mech\HV\Park - H202.dwg Date last accessed: 11/24/2020 2:33 PM Date last plotted: 1/6/2021 8:32 AM Plotted By: James Masullo



1
H203
ROOF HVAC NEW WORK PLAN - AREA A
SCALE: 1/8" = 1'-0"

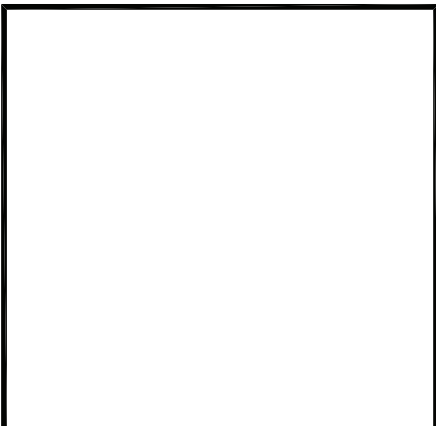
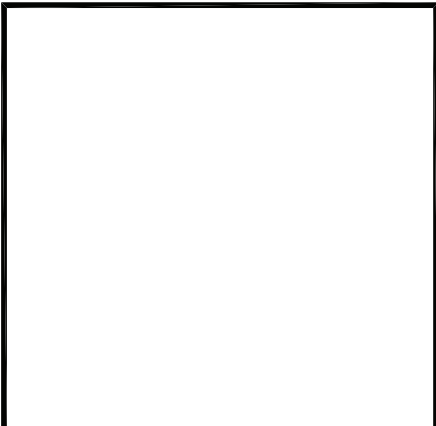
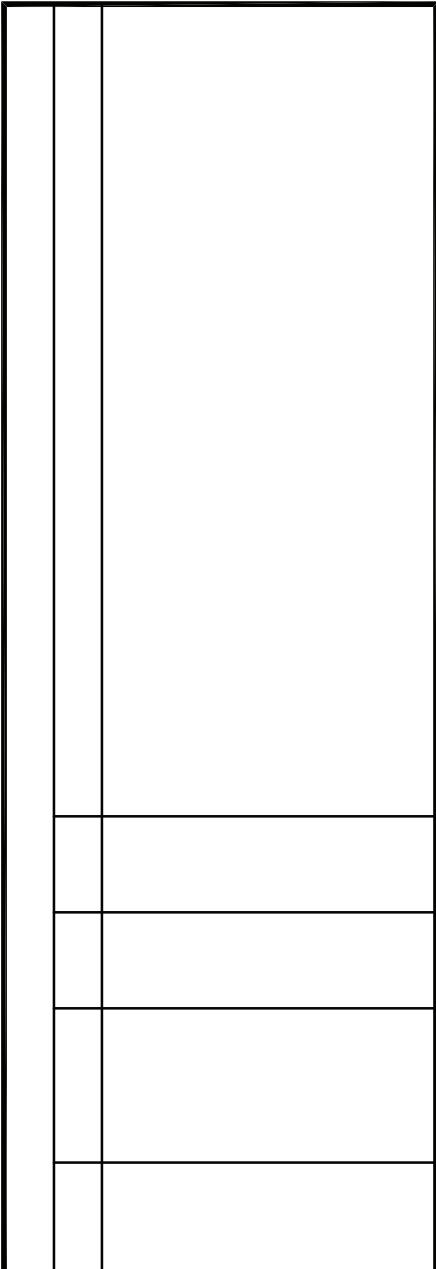


2
H203
ROOF HVAC NEW WORK PLAN - AREA B
SCALE: 1/8" = 1'-0"



KEY NOTES:

- 1 PROVIDE NEW EXHAUST FAN AND ROOF CURB WHERE INDICATED. PROVIDE ALL NECESSARY DUCTWORK MODIFICATIONS AND TRANSITIONS AS REQUIRED TO FACILITATE CONNECTION TO EXISTING LOUVER BOX. PROVIDE ROOFING WORK AS REQUIRED TO FACILITATE INSTALLATION AND SUPPORT OF NEW EXHAUST FAN. REFER TO ROOFING SUPPORT DETAILS FOR REQUIREMENTS.



OSSINING UNION FREE SCHOOL DISTRICT

HVAC IMPROVEMENTS

PARK EARLY CHILDHOOD CENTER SED #66-14-01-03-0-004-023

OSSINING HIGH SCHOOL SED #66-14-01-03-0-003-042

DATE	DRAWN	CHECKED
8/28/2020	KAB	JJM
SCALE	AS NOTED	
SHEET TITLE		
ROOF HVAC NEW WORK PLAN		

PROJECT NUMBER
14428.16/17

PES
H203

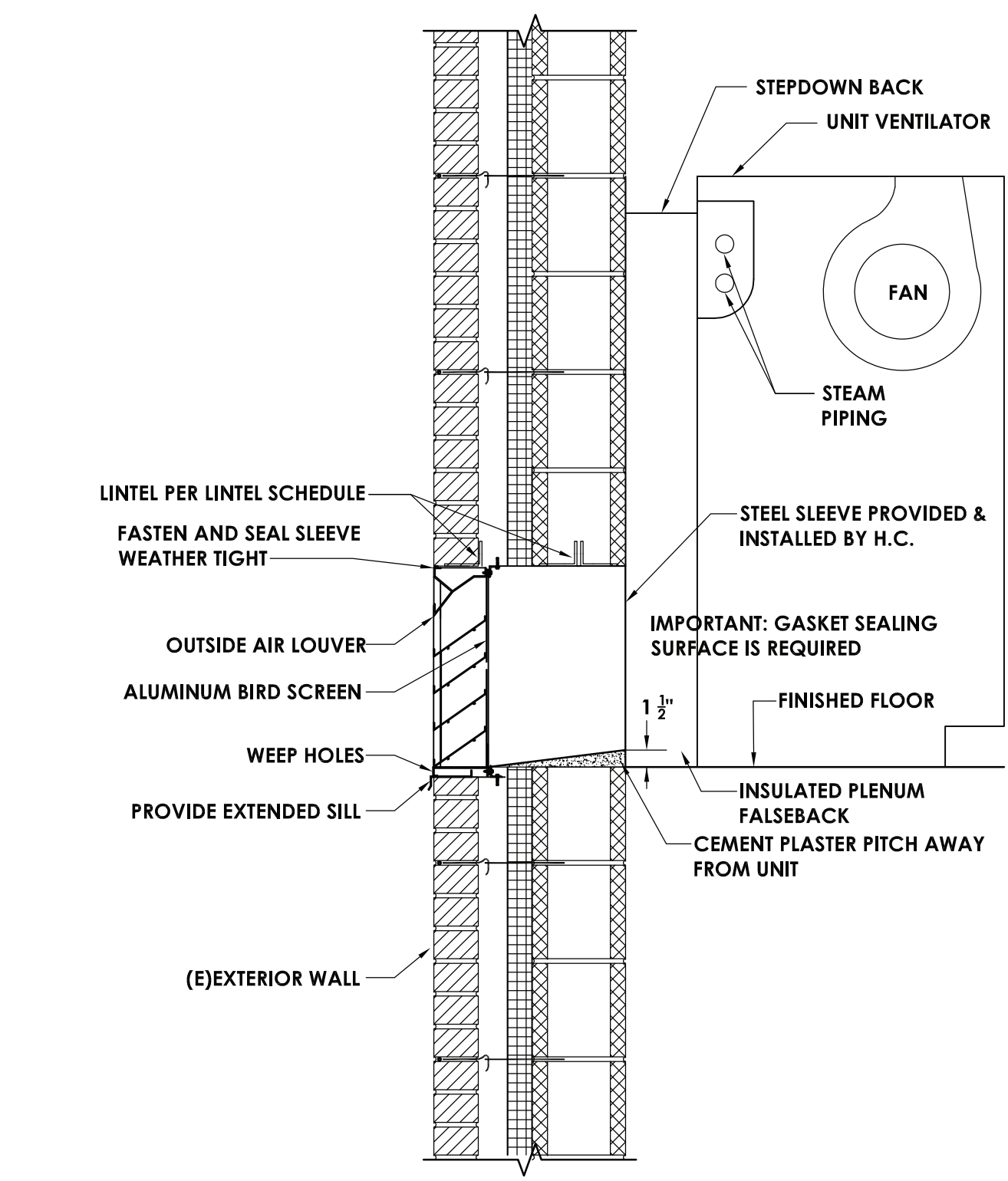
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CPL

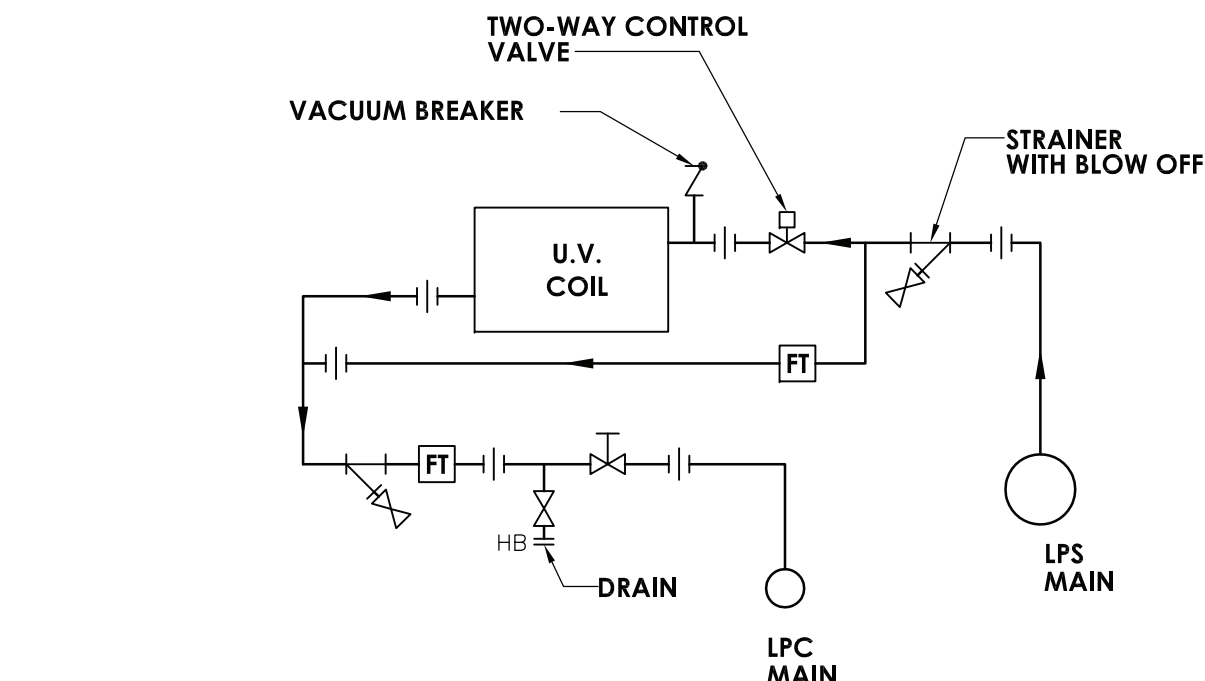
CPLteam.com
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FAX (845) 567-9614

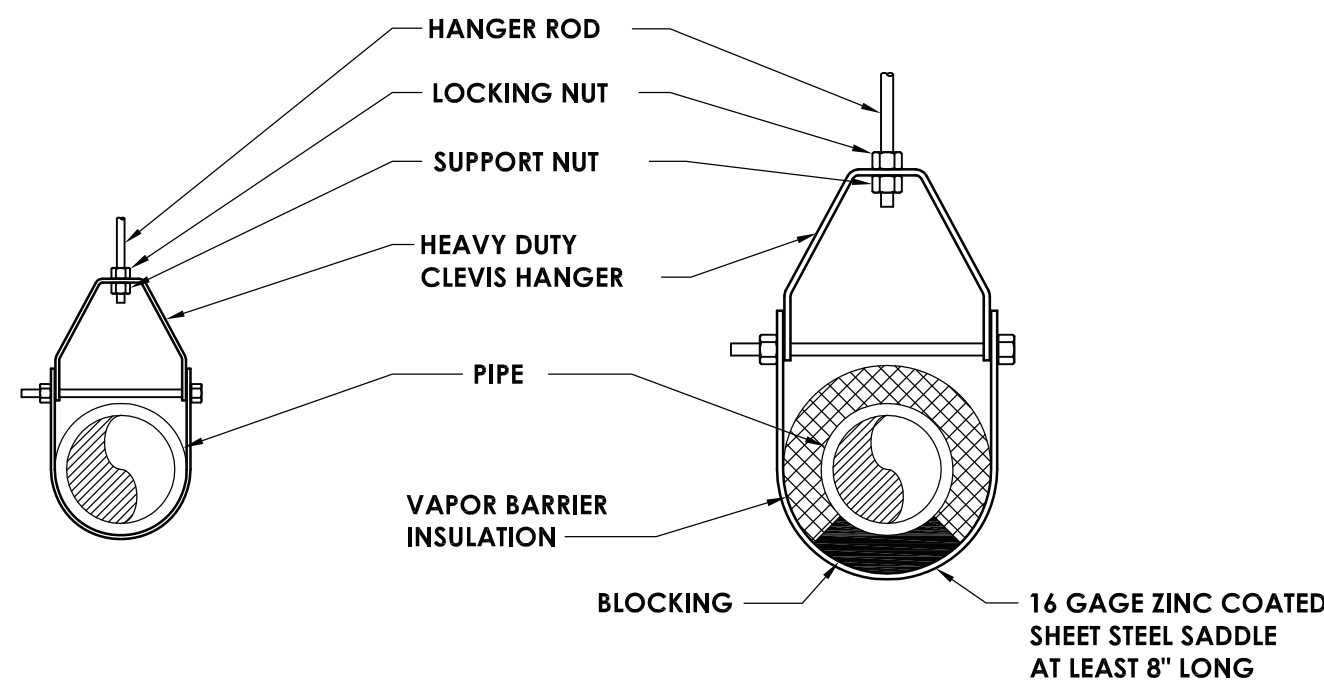
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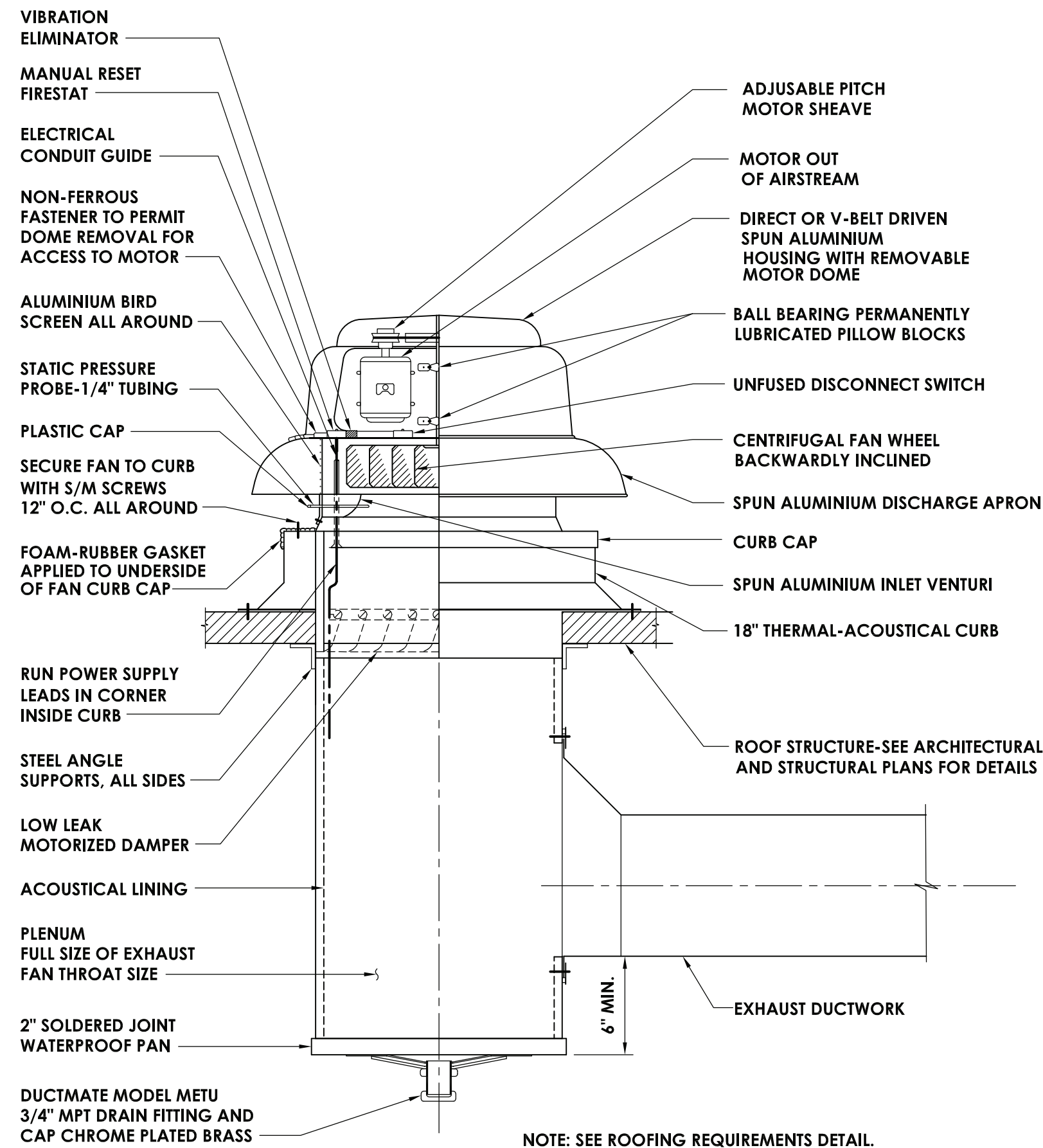
1 LOUVER THROUGH WALL SECTION
H800 NOT TO SCALE



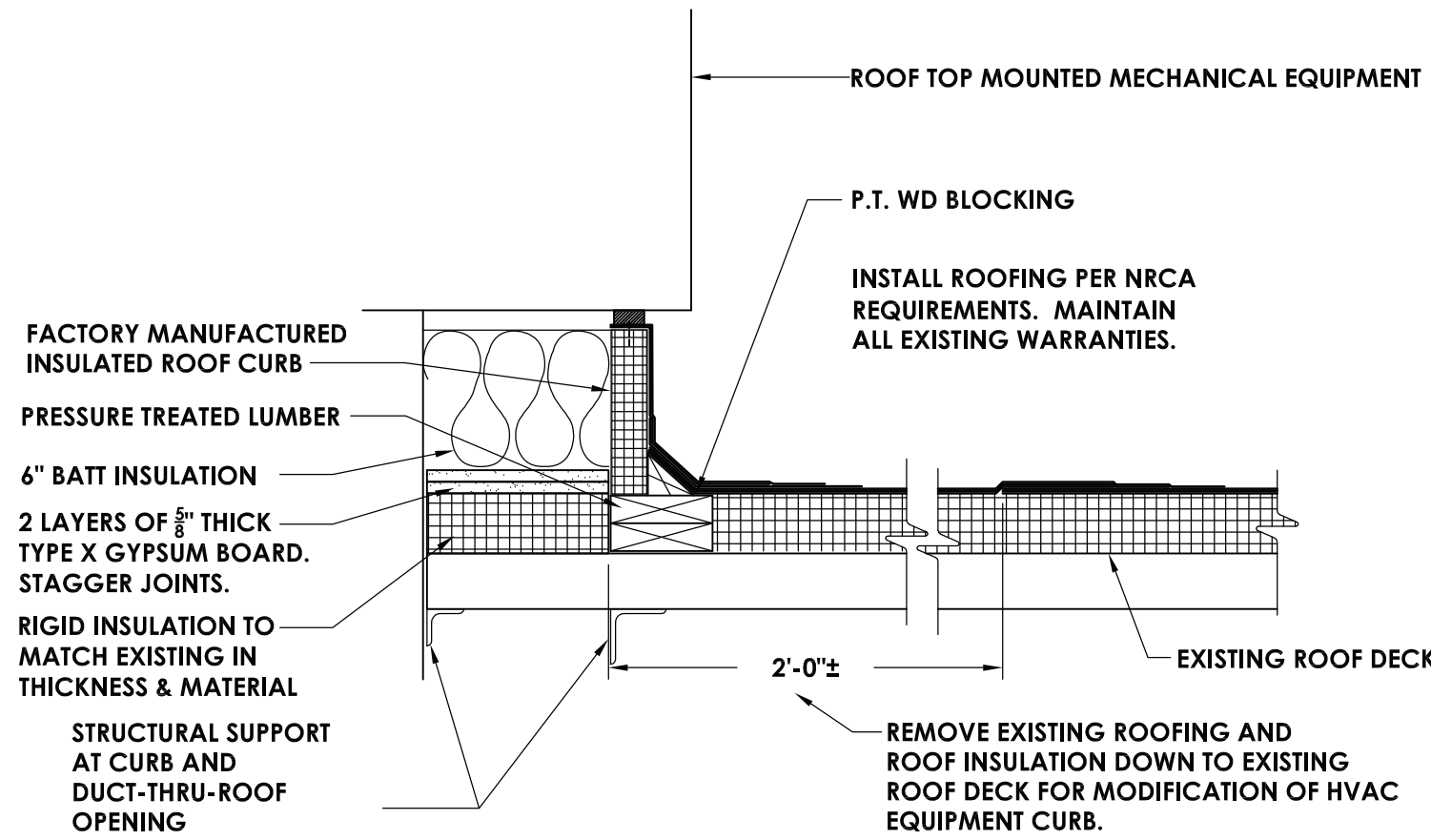
2 UNIT VENTILATOR STEAM PIPING SCHEMATIC
H800 SCALE: NOT TO SCALE



3 PIPE SUPPORT DETAIL
H800 NOT TO SCALE

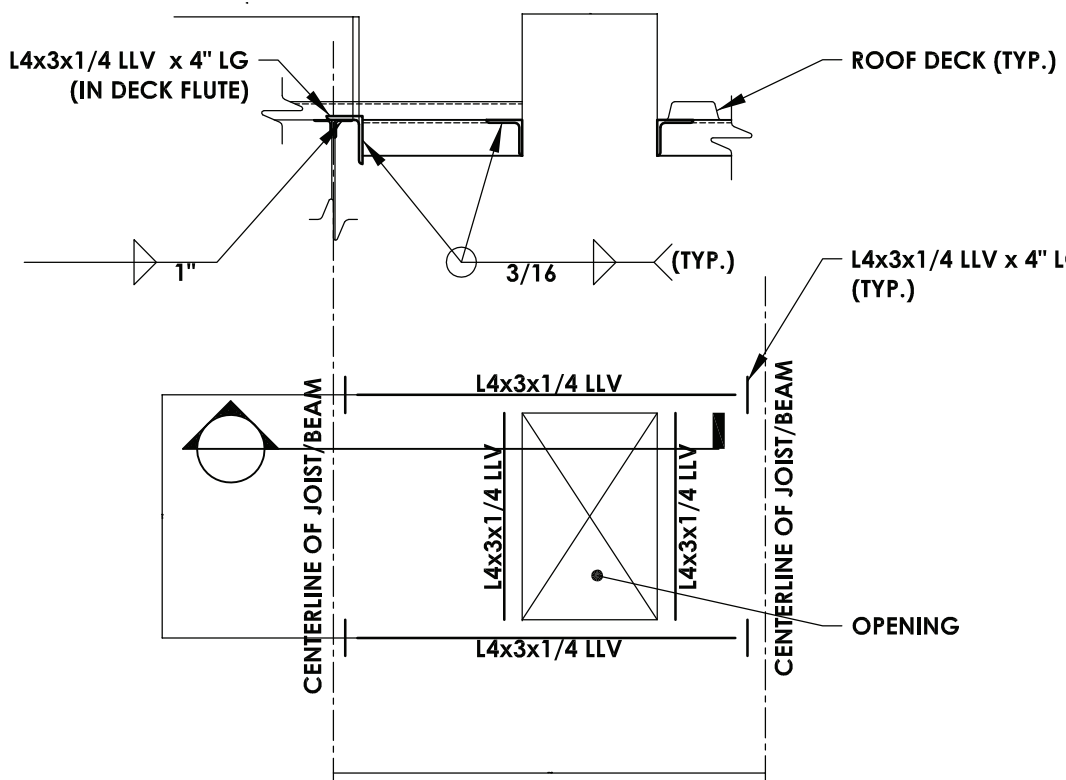


4 EXHAUST FAN DETAIL
H800 NOT TO SCALE



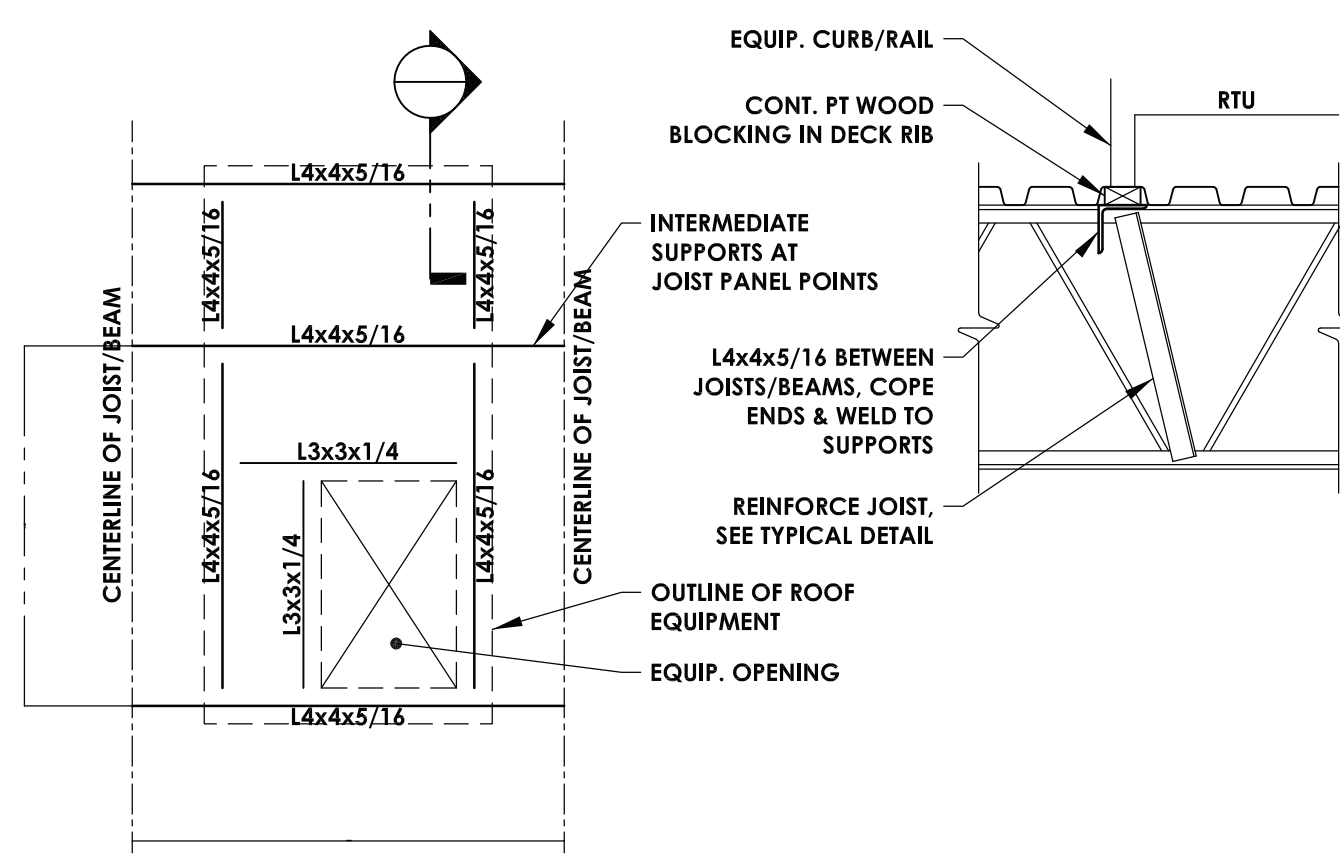
NOTE:
ALL ROOFTOP HVAC UNITS REQUIRED TO HAVE ROOFING REQUIREMENTS AS SHOWN.

5 HVAC EQUIPMENT CURB ROOFING DETAIL - FOR EXISTING ROOFS
H800 NOT TO SCALE



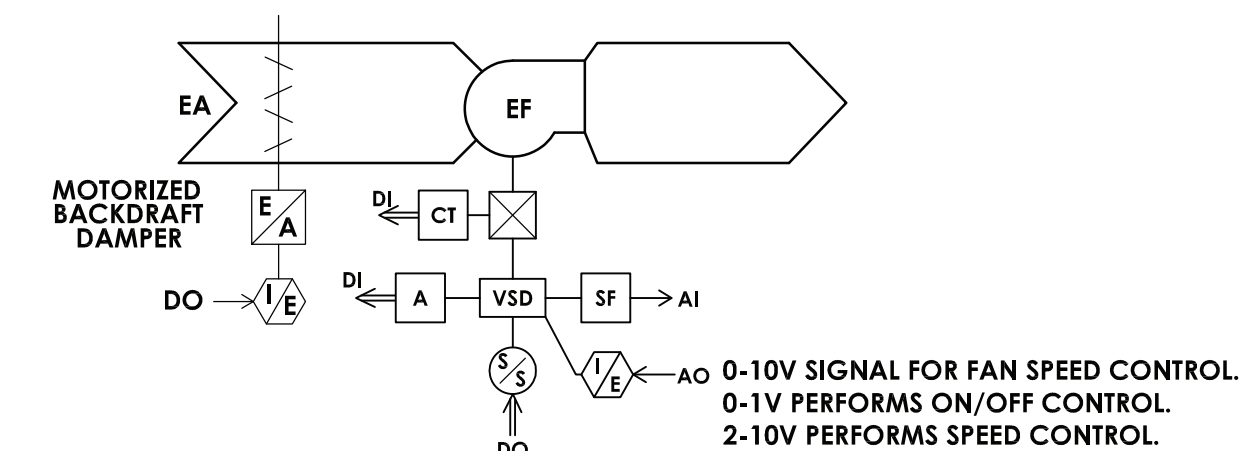
DETAIL NOTES:
1. THE ABOVE STEEL SIZES SHALL BE USED UNLESS NOTED OTHERWISE ON THE PLANS.
2. USE 1 1/2\"/>

6 ROOF OPENING SUPPORT DETAIL
H800 NOT TO SCALE

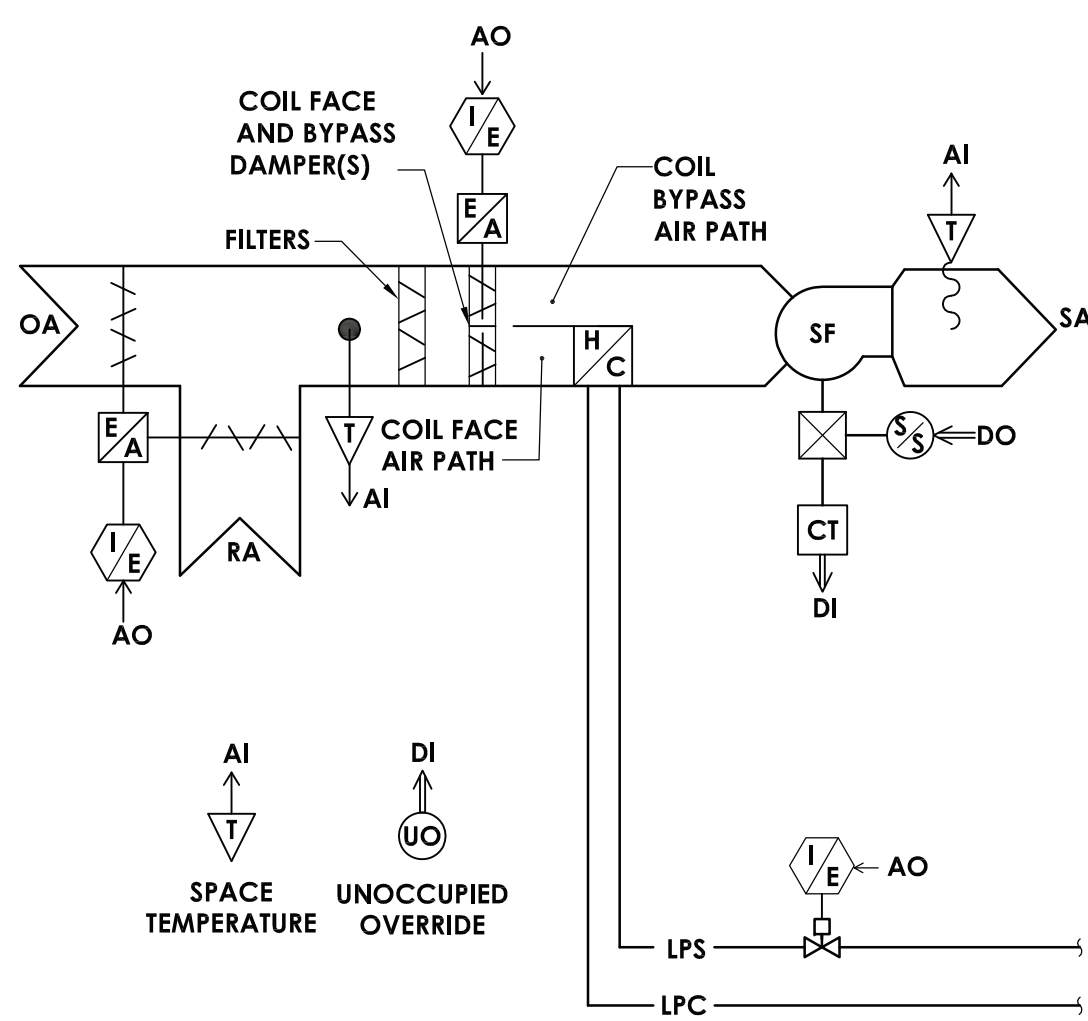


DETAIL NOTES:
1. THE ABOVE STEEL SIZES SHALL BE USED UNLESS NOTED OTHERWISE ON THE PLANS.
2. CONTRACTOR TO COORDINATE EQUIPMENT AND OPENING SUPPORTS WITH ENGINEER AND FINAL APPROVED EQUIPMENT SUBMITTAL.
3. 14x4x5/16 MEMBERS CAN BE REPLACED WITH 13x3x1/4 MEMBERS FOR EQUIPMENT LESS THAN 1,000 LB IN TOTAL WEIGHT (INCLUDES OPERATING WEIGHT).
4. FOR SPANS GREATER THAN 5'-0\"/>

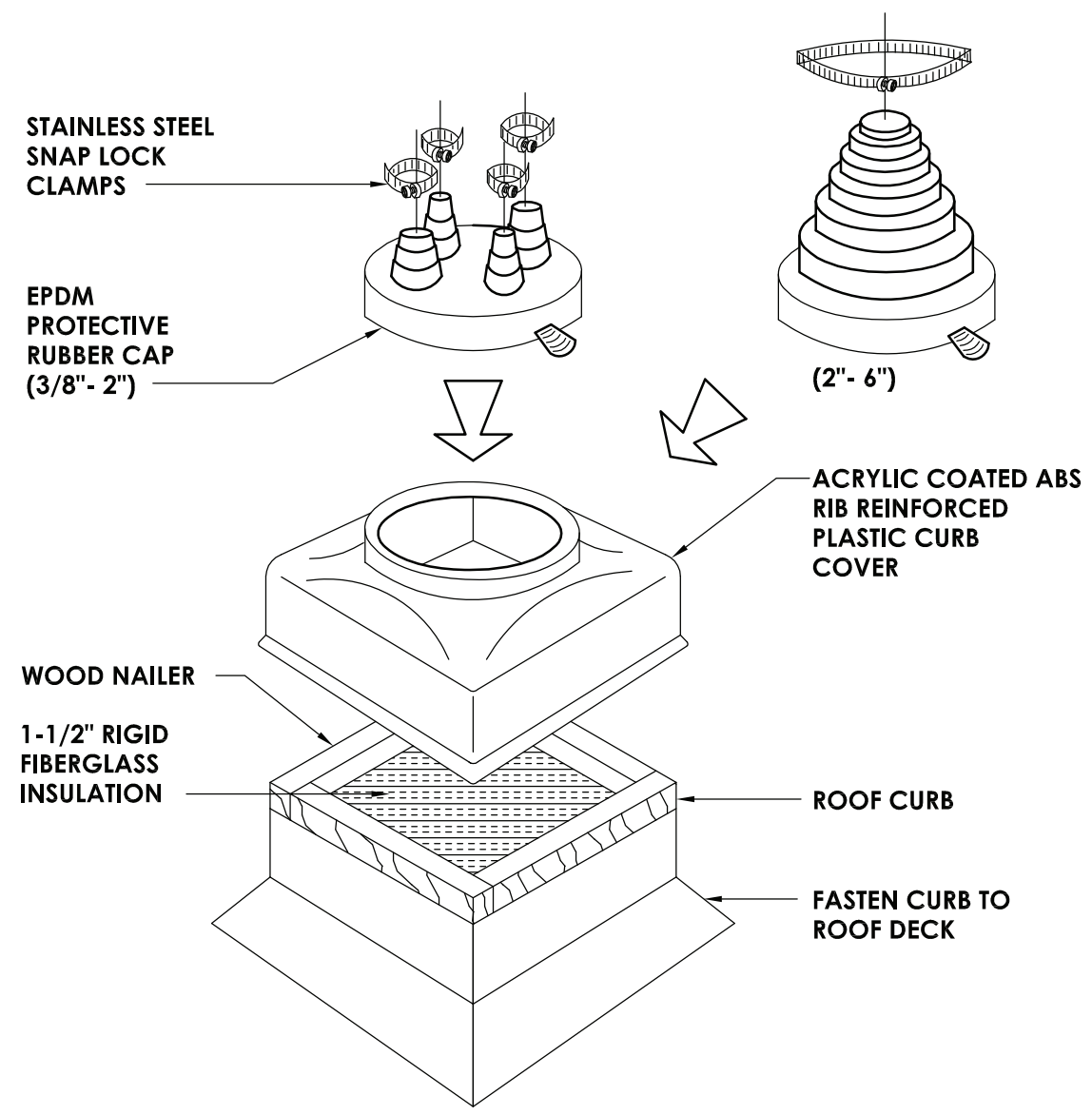
7 ROOF EQUIPMENT SUPPORT DETAIL
H800 NOT TO SCALE



8 EXHAUST FANS WITH EC MOTORS, INTEGRAL VFD, AND BMS SPEED CONTROL
H800 NOT TO SCALE



9 UNIT VENTILATORS
H800 NOT TO SCALE



10 PIPE PORTAL DETAIL
H800 NOT TO SCALE

NOTES:
1. INSTALL ROOFING PER NRCA RECOMMENDATIONS. COORDINATE WITH OWNER AND EXISTING ROOFING MANUFACTURER TO MAINTAIN WARRANTY.
2. REMOVE EXISTING ROOFING AND ROOF INSULATION DOWN TO EXISTING ROOF DECK AS NECESSARY FOR INSTALLATION OF HVAC EQUIPMENT CURB. CUT OPENING IN EXISTING ROOF DECK AND PROVIDE STRUCTURAL SUPPORT FOR MECHANICAL EQUIPMENT AND OPENING EDGE.
3. INSTALLATION OF ALL MECHANICAL EQUIPMENT, RAILS AND CURBS SHALL CONFORM TO NYS BUILDING CODE SECTION 1604.9 AND THE WIND RESTRAINT REQUIREMENTS OF THIS PROJECT.

UNIT VENTILATOR SCHEDULE																			
MARK	MANUFACTURER	MODEL	SERVIS	CFM	MOTOR					MB, O.A. CFM	WRITER		STEAM COIL CAPACITY					TYPE	NOMINAL DIMENSIONS (L x W x H)
					HP	FAN SPEED	TYPE	WFOCP (A)	FLA	VOLTSØ	O.A. FT.	BA. FT.	COIL ROWS	NAT. FT.	LAT. FT.	INLET (PSI)	MBH		
UV-1	DAIKIN	UAV5SH13	CLASSROOM 101	1250	1/3	HIGH	ECM	15	4.2	115V1	440	2.0	68.0	1	46.9	97.9	2	69.5	FACE & BYPASS
UV-2	DAIKIN	UAV5SH13	CLASSROOM 102	1250	1/3	HIGH	ECM	15	4.2	115V1	435	2.0	68.0	1	46.9	97.9	2	69.5	FACE & BYPASS
UV-3	DAIKIN	UAV5SH13	CLASSROOM 103	1250	1/3	HIGH	ECM	15	4.2	115V1	440	2.0	68.0	1	46.9	97.9	2	69.5	FACE & BYPASS
UV-4	DAIKIN	UAV5SH13	CLASSROOM 104	1250	1/3	HIGH	ECM	15	4.2	115V1	435	2.0	68.0	1	46.9	97.9	2	69.5	FACE & BYPASS
UV-5	DAIKIN	UAV5SH13	CLASSROOM 105	1250	1/3	HIGH	ECM	15	4.2	115V1	440	2.0	68.0	1	46.9	97.9	2	69.5	FACE & BYPASS
UV-6	DAIKIN	UAV5SH13	CLASSROOM 106	1250	1/3	HIGH	ECM	15	4.2	115V1	440	2.0	68.0	1	46.9	97.9	2	69.5	FACE & BYPASS
UV-7	DAIKIN	UAV5SH13	CLASSROOM 107	1250	1/3	HIGH	ECM	15	4.2	115V1	485	2.0	68.0	1	46.9	97.9	2	69.5	FACE & BYPASS
UV-8	DAIKIN	UAV5SH13	CLASSROOM 108	1250	1/3	HIGH	ECM	15	4.2	115V1	440	2.0	68.0	1	46.9	97.9	2	69.5	FACE & BYPASS
UV-9	DAIKIN	UAV5SH13	CLASSROOM 109	1250	1/3	HIGH	ECM	15	4.2	115V1	435	2.0	68.0	1	46.9	97.9	2	69.5	FACE & BYPASS
UV-10	DAIKIN	UAV5SH13	CLASSROOM 110	1250	1/3	HIGH	ECM	15	4.2	115V1	435	2.0	68.0	1	46.9	97.9	2	69.5	FACE & BYPASS
UV-11	DAIKIN	UAV5SH13	CLASSROOM 200	1250	1/3	HIGH	ECM	15	4.2	115V1	435	2.0	68.0	1	46.9	97.9	2	69.5	FACE & BYPASS
UV-12	DAIKIN	UAV5SH13	CLASSROOM 201	1250	1/3	HIGH	ECM	15	4.2	115V1	435	2.0	68.0	1	46.9	97.9	2	69.5	FACE & BYPASS
UV-13	DAIKIN	UAV5SH13	CLASSROOM 202	1250	1/3	HIGH	ECM	15	4.2	115V1	440	2.0	68.0	1	46.9	97.9	2	69.5	FACE & BYPASS
UV-14	DAIKIN	UAV5SH13	CLASSROOM 203	1250	1/3	HIGH	ECM	15	4.2	115V1	440	2.0	68.0	1	46.9	97.9	2	69.5	FACE & BYPASS
UV-15	DAIKIN	UAV5SH13	CLASSROOM 204	1250	1/3	HIGH	ECM	15	4.2	115V1	435	2.0	68.0	1	46.9	97.9	2	69.5	FACE & BYPASS
UV-16	DAIKIN	UAV5SH13	CLASSROOM 205	1250	1/3	HIGH	ECM	15	4.2	115V1	440	2.0	68.0	1	46.9	97.9	2	69.5	FACE & BYPASS
UV-17	DAIKIN	UAV5SH13	CLASSROOM 206	1250	1/3	HIGH	ECM	15	4.2	115V1	440	2.0	68.0	1	46.9	97.9	2	69.5	FACE & BYPASS
UV-18	DAIKIN	UAV5SH13	CLASSROOM 207	1250	1/3	HIGH	ECM	15	4.2	115V1	455	2.0	68.0	1	46.9	97.9	2	69.5	FACE & BYPASS
UV-19	DAIKIN	UAV5SH13	CLASSROOM 208	1250	1/3	HIGH	ECM	15	4.2	115V1	440	2.0	68.0	1	46.9	97.9	2	69.5	FACE & BYPASS
UV-20	DAIKIN	UAV5SH13	CLASSROOM 209	1250	1/3	HIGH	ECM	15	4.2	115V1	435	2.0	68.0	1	46.9	97.9	2	69.5	FACE & BYPASS
UV-21	DAIKIN	UAV5SH13	CLASSROOM 210	1250	1/3	HIGH	ECM	15	4.2	115V1	435	2.0	68.0	1	46.9	97.9	2	69.5	FACE & BYPASS
UV-22	DAIKIN	UAV5SH13	CLASSROOM 211	1250	1/3	HIGH	ECM	15	4.2	115V1	435	2.0	68.0	1	46.9	97.9	2	69.5	FACE & BYPASS
UV-23	DAIKIN	UAV5SH13	CLASSROOM 212	1250	1/3	HIGH	ECM	15	4.2	115V1	435	2.0	68.0	1	46.9	97.9	2	69.5	FACE & BYPASS
UV-24	DAIKIN	UAV5SH13	CLASSROOM 112	1250	1/3	HIGH	ECM	15	4.2	115V1	490	2.0	68.0	1	46.9	97.9	2	69.5	FACE & BYPASS
UV-HS-1/2	ARDALE	UVHD0	WEIGHT ROOM	750	1/2	MEDIUM	ECM	15	9.2	115V1	345	2.0	68.0	1	43	148.9	5	88.2	FACE & BYPASS
REMARKS:																			
1. BACKUP NETWORKS: ALL EQUIPMENT TO BE CONNECTED TO THE EXISTING RAS (SCHNEIDER ELECTRIC, ANDOVER SYSTEM).																			
2. MOTOR AND ELECTRICAL INPUT BOX INCLUDES FAN SPEED SWITCH, ON/OFF SWITCH AND NON-FUSED DISCONNECT.																			
3. PROVIDE WITH MANUFACTURER'S 2" SOLID TOPDOWN ACCESSORY AND TALL ADAPTER BACK WITH ENCLOSED PIPE TUNNEL.																			
4. PROVIDE TWO 12-INCH END COMPARTMENTS, RUL 30" HEIGHT WITH 2" STEP DOWN.																			
5. EXTERIOR LOUVER SHALL BE CUSTOM COLOR AS SELECTED BY THE ARCHITECT TO MATCH THE COLOR OF THE SURROUNDING BRICK.																			
6. PROVIDE REAR PLenum BOX.																			
ARRANGEMENTS:																			
1. RETURN AIR - FRONT RECESSED AIR BRICK PANEL OUTDOOR AIR - REAR DUCT COLLAR SUPPLY AIR - TOP DISCHARGE GRILLE.																			
2. FRONT RETURN GRILLE BACK OUTDOOR AIR CONNECTION TOP DISCHARGE COIL AS HIGH AS POSSIBLE.																			

FAN SCHEDULE												
MARK	LOCATION	SERVICE	TYPE	CFM	SP (IN. W.G.)	DIAMETER (IN.)	FAN RPM	ELECTRICAL DATA				TYPICAL UNIT MFG.
								BHP / HP	VOLTS	PHASE	VFD	
EF-1	ROOF	RELIEF	DOWNBLAST	5,000	0.50	24.5	692	2	208	3	INTEGRAL	GREENHECK - G-24RC-CVSD
EF-2	ROOF	RELIEF	DOWNBLAST	6,250	0.70	24.5	846	2	208	3	INTEGRAL	GREENHECK - G-24RC-CVSD
EF-3	ROOF	RELIEF	DOWNBLAST	3,225	0.50	16.625	1277	2	208	1	INTEGRAL	GREENHECK - G-16RC-VSD
EF-4	ROOF	RELIEF	DOWNBLAST	5,000	0.60	24.5	722	2	208	3	INTEGRAL	GREENHECK - G-24RC-CVSD
EF-5	ROOF	RELIEF	DOWNBLAST	5,725	0.60	24.5	778	2	208	3	INTEGRAL	GREENHECK - G-24RC-CVSD
EF-6	ROOF	RELIEF	DOWNBLAST	2,500	0.50	14.625	1522	1	208	1	INTEGRAL	GREENHECK - G-14RC-VSD
EF-7	ROOF	RELIEF	DOWNBLAST	2,500	0.40	14.625	1490	1	208	1	INTEGRAL	GREENHECK - G-14RC-VSD
EF-HS-1	GYM	RELIEF	WALL INTAKE	700	0.25	14	1616	06/25	115	1	INTEGRAL	GREENHECK - SE-12-4RC-VSD
REMARKS:												
1. PROVIDE WITH MANUFACTURER'S DISCONNECT SWITCH.												
2. PROVIDE WITH MANUFACTURER'S EC MOTOR WITH INTEGRAL VFD AND 0-10 VDC INPUT SIGNAL CONTROL.												
3. PROVIDE WITH MANUFACTURER'S 14" HIGH ROOF CURB.												
4. PROVIDE WITH MANUFACTURER'S LOW VOLTAGE MOTORIZED DAMPER.												
5. PROVIDE WITH MANUFACTURER'S ALUMINUM BRIDGESCREEN.												

LOUVER SCHEDULE								
MARK	LOCATION	SERVICE	FREE AREA (SQ. FT.)	CFM	SP (IN. WG.)	SIZE W&H (IN.)	TYPICAL UNIT MFG. & MODEL NO.	REMARKS:
L-1	GYM	INTAKE	1.95	315	0	35X10	RUSKIN ELF375DX	1
L-2	GYM	RELIEF	0.97	630	0.06	18X18	RUSKIN ELF375DX	
REMARKS:								
1. MATCH EXISTING OPENING SIZE. FIELD VERIFY.								

VENTILATION SCHEDULE											
NEW TAG	WORST CASE ROOM	CFM/ft² AT MAXIMUM	TOTAL OCCUPANCY FOR VENTILATION	TOTAL SQ. FT.	O.A. PER SQ. FT. (CFM)	O.A. PER SQ. FT. (CFM)	Vbz (CFM)	Ex	OVER VENTILATION FOR LOWER CROSS-CONTAMINATION	Voar/Vbz (CFM)	SPACE MAINTAIN SUPPLY (CFM)
Park ECC - First Floor											
	Park ECC - Rm 101	0.00	30	774	10	0.12	393	0.9	0%	437	
	Park ECC - Rm 102	0.00	30	749	10	0.12	390	0.9	0%	433	
	Park ECC - Rm 103	0.00	30	776	10	0.12	393	0.9	0%	437	
	Park ECC - Rm 104	0.00	30	744	10	0.12	389	0.9	0%	433	
	Park ECC - Rm 105	0.00	30	774	10	0.12	393	0.9	0%	437	
	Park ECC - Rm 106	0.00	30	969	10	0.12	416	0.9	0%	463	
	Park ECC - Rm 107	0.00	30	1120	10	0.12	434	0.9	0%	483	
	Park ECC - Rm 108	0.00	30	776	10	0.12	393	0.9	0%	437	
	Park ECC - Rm 109	0.00	30	757	10	0.12	391	0.9	0%	434	
	Park ECC - Rm 110	0.00	30	763	10	0.12	392	0.9	0%	435	
	Park ECC - Rm 112	0.00	30	1147	10	0.12	438	0.9	0%	486	
Park ECC - Second Floor											
	Park ECC - Rm 200	0.00	30	765	10	0.12	392	0.9	0%	435	
	Park ECC - Rm 201	0.00	30	744	10	0.12	389	0.9	0%	433	
	Park ECC - Rm 202	0.00	30	780	10	0.12	394	0.9	0%	437	
	Park ECC - Rm 203	0.00	30	920	10	0.12	410	0.9	0%	456	
	Park ECC - Rm 204	0.00	30	744	10	0.12	389	0.9	0%	433	
	Park ECC - Rm 205	0.00	30	774	10	0.12	393	0.9	0%	437	
	Park ECC - Rm 206	0.00	30	941	10	0.12	413	0.9	0%	459	
	Park ECC - Rm 207	0.00	30	899	10	0.12	408	0.9	0%	453	
	Park ECC - Rm 208	0.00	30	776	10	0.12	393	0.9	0%	437	
	Park ECC - Rm 209	0.00	30	757	10	0.12	391	0.9	0%	434	
	Park ECC - Rm 210	0.00	30	759	10	0.12	391	0.9	0%	435	
	Park ECC - Rm 211	0.00	30	757	10	0.12	391	0.9	0%	434	
	Park ECC - Rm 212	0.00	30	753	10	0.12	390	0.9	0%	434	