#### **GENERAL MECHANICAL NOTES:**

- CONTRACTOR(S) SHALL PROVIDE ALL ITEMS, ARTICLES, EQUIPMENT, TOOLS, APPLIANCES, MATERIALS AND METHODS REQUIRED FOR COMPLETED SYSTEMS.
- PROVIDE ALL LABOR, SCAFFOLDING, SUPPORTS, SUPERVISION AND INCIDENTALS REQUIRED TO MODIFY AND/OR INSTALL THE SYSTEMS COMPLETE.
- CONTRACTOR(S) SHALL LOCATE AND PROTECT THE OWNER'S EQUIPMENT, PIPING AND UTILITIES SCHEDULED TO REMAIN FROM DAMAGE DURING CONSTRUCTION.
- ALL WORK SHALL BE EXECUTED IN A THOROUGHLY SUBSTANTIAL AND CRAFTSMAN LIKE MANNER BY SKILLED MECHANICS IN THE VARIOUS TRADES INVOLVED. FOLLOW MANUFACTURERS' INSTRUCTIONS FOR INSTALLING, CONNECTING AND ADJUSTING ALL EQUIPMENT.
- CONTRACTOR(S) SHALL FIELD VERIFY ALL DIMENSIONS OF EXISTING ELEMENTS, EQUIPMENT, AND OTHER CONDITIONS HAVING A BEARING ON THE WORK. CONTRACTOR(S) SHALL COORDINATE WITH OTHER TRADES TO ELIMINATE ANY INTERFERENCES WITH LIGHTING FIXTURES, DUCTWORK, PIPING, ETC.
- CONTRACTOR(S) SHALL PERFORM ALL VERIFICATIONS, OBSERVATIONS, TESTS, AND EXAMINATIONS OF THE WORK PRIOR TO THE ORDERING OF ANY EQUIPMENT AND THE ACTUAL CONSTRUCTION.
- CONTRACTOR(S) SHALL BE SOLELY RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES AND FOR COORDINATING ALL PORTIONS OF THE WORK UNDER CONTRACT.
- CONTRACTOR(S) SHALL FURNISH AND INSTALL ALL MATERIALS AS REQUIRED FOR COMPLETE SYSTEMS, INCLUDING ALL PARTS OBVIOUSLY OR REASONABLY INCIDENTAL TO A COMPLETE INSTALLATION, WHETHER SPECIFICALLY INDICATED OR NOT.
- FOLLOW MANUFACTURERS' INSTRUCTIONS FOR INSTALLING, CONNECTING AND ADJUSTING ALL EQUIPMENT.
- 10. DRAWINGS ARE NOT TO BE SCALED. DRAWINGS ARE INTENDED TO BE A DIAGRAMMATIC OUTLINE ONLY.
- 11. DIMENSIONS SHOWN ARE TO FINISH SURFACES UNLESS OTHERWISE NOTED. SPACING BETWEEN EQUIPMENT IS REQUIRED CLEARANCE. THEREFORE, IT IS CRITICAL TO FIELD VERIFY DIMENSIONS, SHOULD THERE BE ANY QUESTIONS REGARDING THE CONTRACT DOCUMENTS, EXISTING CONDITIONS AND/OR DESIGN INTENT, THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING A CLARIFICATION FROM THE OWNER PRIOR TO PROCEEDING WITH THE WORK.
- 12. DETAILS ARE INTENDED TO SHOW END RESULT OF DESIGN. MINOR MODIFICATIONS MAY BE REQUIRED TO SUIT JOB DIMENSIONS OR CONDITIONS, AND SUCH MODIFICATIONS SHALL BE INCLUDED AS PART OF THE WORK.
- DRAWINGS ARE DIAGRAMMATIC ONLY, FINAL ROUTING OF DUCTWORK AND EQUIPMENT LOCATIONS SHALL BE DETERMINED IN THE FIELD. ADDITIONAL OFFSETS, ELBOWS, ETC., SHALL BE PROVIDED AND INSTALLED WITHOUT ADDITIONAL COST TO THE OWNER.
- 14. THE MC SHALL FURNISH TO THE GC ALL INFORMATION REQUIRED FOR SETTING OF WALL, ROOF, AND PARTITION OPENINGS FOR MECHANICAL WORK. THIS INFORMATION SHALL BE FURNISHED IN A TIMELY MANNER SUCH THAT CONSTRUCTION SCHEDULE IS NOT JEOPARDIZED.
- 15. THE TEMPERATURE CONTROL CONTRACTOR SHALL COORDINATE THERMOSTAT/TEMPERATURE SENSOR LOCATIONS WITH ARCHITECTURAL PLANS AND/OR THE OWNER. THERMOSTATS SHALL BE INSTALLED 48-INCHES ABOVE FINISHED FLOORS UNLESS OTHERWISE NOTED.
- 16. ALL PIPING AND DUCTS IN FINISHED ROOMS OR SPACES SHALL BE CONCEALED IN A FURRED CHASE OR ABOVE THE CEILING, UNLESS NOTED OTHERWISE.
- 17. ACCESS PANELS IN CEILINGS AND WALLS ARE REQUIRED FOR ALL VALVES, TRAPS, DAMPERS, CLEANOUTS, CONTROLS, ETC.
- DIMENSIONS SHOWN ON DRAWINGS FOR DUCTWORK ARE INSIDE CLEAR. FIELD VERIFY ALL DIMENSIONS BEFORE FABRICATING DUCTWORK.
- 19. ALL DUCTWORK SHALL BE SEALED AND TESTED FOR LEAKS PRIOR TO COVERING WORK.
- 20. CONTRACTOR SHALL INSTALL ALL BALANCING DEVICES NECESSARY TO ACHIEVE PROPER ADJUSTING AND BALANCING OF MECHANICAL SYSTEMS.
- 21. PROVIDE FLEXIBLE CONNECTOR AT ALL DUCTWORK CONNECTIONS TO AIR HANDLING EQUIPMENT.
- INSTALL ALL DUCTWORK AND PIPING AS HIGH ABOVE FINISH FLOOR AS CONDITIONS PERMIT. FURNISH & INSTALL OFFSETS, ELBOWS, ETC., TO RECESS PIPING & DUCTWORK BETWEEN STRUCTURAL TEE'S WHERE POSSIBLE.

## TYPICAL ABBREVIATIONS

#### **MECHANICAL LEGEND:**

	CEI1D.
26x12	NEW RECTANGULAR DUCTWORK
10Ø	NEW ROUND DUCTWORK
	NEW FLEXIBLE DUCTWORK
T	THERMOSTAT
	SUPPLY DIFFUSER
	RETURN DIFFUSER
	EXHAUST DIFFUSER
	MAKE-UP DUCT RISER
	SUPPLY DUCT RISER
	RETURN DUCT RISER
	EXHAUST DUCT RISER
	TURNING VANES
	VOLUME DAMPER

MOTORIZED DAMPER

- FURNISHED BY MC

FOR INSTALLATION BY GC

ACCESS DOOR

### **MECHANICAL PIPING LEGEND:**

<b>├──</b>	DIRECTION OF FLOW
<del></del>	PIPE TURNING DOWN
<b></b>	PIPE TURNING UP
<del></del>	TOP TAKE OFF
<del>≥                                    </del>	BOTTOM TAKE OFF
2-1012	BALL VALVE
2	CHECK VALVE
<del>\</del>	UNION
⊱—HWS—	HOT WATER SUPPLY PIPING
⊱—HWR——	HOT WATER RETURN PIPING
<b>≥</b> ——C——>	CONDENSATE PIPING
<b>⊱—R</b> ——	REFRIGERANT PIPING
⊱—GHWS—	GLYCOL HOT WATER SUPPLY PIPIN
¿—GHWR—⊰	GLYCOL HOT WATER RETURN PIPIN

# CONVECTOR SCHEDULE - RADIANT HEAT PANEL

TAG	SERVICE	MANUF.	MODEL NO.	MOUNTING	DEPTH (IN.)	HEIGHT (IN.)	LENGTH	GPM	BTUH/LF	AWT	REMARKS
RHP-1-1	109 CORRIDOR	RUNTAL	RF-3	WALL	1 5/8"	8 5/8"	3 ft	1.0	690	160	
RHP-1-2	111 TOILET	RUNTAL	RF-3	WALL	1 5/8"	8 5/8"	3 ft	1.0	690	160	
RHP-1-3	112 TOILET	RUNTAL	RF-3	WALL	1 5/8"	8 5/8"	3 ft	1.0	690	160	
RHP-1-4	113 TOILET	RUNTAL	RF-3	WALL	1 5/8"	8 5/8"	2 ft	1.0	690	160	
RHP-2-1	207 MEN	RUNTAL	RF-3	WALL	1 5/8"	8 5/8"	3 ft	1.0	690	160	
RHP-2-2	205 WOMEN	RUNTAL	RF-3	WALL	1 5/8"	8 5/8"	3 ft	1.0	690	160	

1. COLOR TO BE SELECTED BY ARCHITECT (FOR BIDDING PURPOSES FIGURE PREMIUM COLOR).

2. PROVIDE HORIZONTAL PIPE TRIM AS REQ'D TO CONCEAL ALL PIPING a. TRIM PANELS MUST BE PROVIDED BY RHP MANUF. AND SHALL EXACTLY MATCH STYLE,

5. PROVIDE WALL BRACKET FOR MOUNTING PER MANUF'S REQUIREMENTS.

COLOR AND TYPE OF RADIANT HEAT PANEL.

3. CONTRACTOR SHALL DETERMINE REQ'D PIPING CONNECTION. 4. FURNISH WITH INTEGRAL AIR VENT.

#### MECHANICAL KEYED EQUIPMENT LEGEND:

$\left\langle \begin{array}{c} VRF \\ X \end{array} \right\rangle$	VARIABLE REFRIGERANT FLOW UNIT
$\left\langle \begin{array}{c} CU \\ X \end{array} \right\rangle$	CONDENSING UNIT
(EF X	EXHAUST FAN
$\left\langle \frac{HRV}{X} \right\rangle$	HEAT RECOVERY VENTILATOR
$\left\langle \begin{array}{c} UH \\ X \end{array} \right\rangle$	HYDRONIC UNIT HEATER
$\left\langle \begin{array}{c} CH \\ X \end{array} \right\rangle$	HYDRONIC CABINET HEATER
(HRB) X	VRF HEAT RECOVERY BOX
(CF)	CEILING FAN

$\left\langle \begin{array}{c} HR \\ X \end{array} \right\rangle$	HOSE REEL
$\left\langle \begin{array}{c} P \\ X \end{array} \right\rangle$	HYDRONIC PUMP

**BOILER EXPANSION TANK** 

PLATE & FRAME HEAT EXCHANGER

AIR SEPARATOR

CHEMICAL BAG FILTER

LOUVER

MOTORIZED HOSE REEL

AIR TO AIR ENERGY RECOVERY VENTILATOR

KITCHEN EXHAUST FAN

MAKE-UP AIR UNIT

**BOOSTER PUMP** 

HOT WATER COIL

RADIANT HEAT PANEL FIN TUBE RADIATION

IN-SLAB INDOOR HEATING MANIFOLD

IN-SLAB OUTDOOR HEATING MANIFOLD

ED-x XXX CFM EXHAUST AIR DIFFUSER RETURN AIR DIFFUSER

SUPPLY AIR DIFFUSER

RETURN AIR GRILLE

SUPPLY AIR LINEAR DIFFUSER

SUPPLY AIR GRILLE

# **APPLICABLE CODES:**

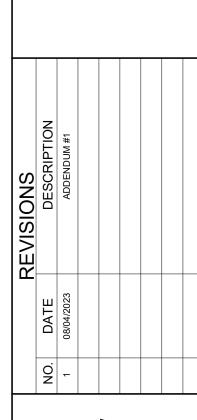
2020 BUILDING CODE OF NEW YORK STATE 2020 MECHANICAL CODE OF NEW YORK STATE

2020 ENERGY CONSERVATION CONSTRUCTION CODE OF NEW YORK STATE









PORT EWEN FIRE DEPARTMENT, ULSTER, YORK

SHI

**M** 

SEE NOTES

REFER TO DETAILS AND MANUF.'S RECOMMENDATION OF REFRIGERANT PIPE SIZING AND FITTINGS.

VMDB007H4-3P

DUCTED

220

0.32

LENNOX

PROVIDE W/ CONDENSATE PUMP. PROVIDE W/7-DAY PROGRAMMABLE THERMOSTAT.

200 CHIEF'S OFFICE

UNIT SHALL BE MOUNTED ON PRE-FABRICATED EQUIPMENT SUPPORTS (24" HIGH EQUIPMENT RAILS) WITH NEOPRENE RUBBER ISOLATION PADS. PROVIDE WITH AIR GUIDE AND HAIL GUARD KITS FOR LOW AMBIENT OPERATION. RATED CAPACITY BASED ON: HEATING - INDOOR: 70.0°F (DB), OUTDOOR: -4.0°F (DB) & 4.4°F (WB) COOLING - INDOOR: 75.0°F (DB) & 62.0°F (WB), OUTDOOR: 91.0°F (DB)

0.5

6,096

4,224

6,780

1.25

208/1/60

51

TAC	CED/ICE	MANUF.	MODELNO	SUPPLY FAN		EXHAUST FAN		WEIGHT	SUMMER			WINTER		ELECTRIC		DEMARKS		
TAG	SERVICE		MODEL NO.	CFM	EXT. SP. (IN. W.C.)	CFM	EXT. SP. (IN. W.C.)	(LBS.)	EAT (DB °F)	EAT (WB °F)	LAT (DB °F)	LAT (WB °F)	EAT (DB °F)	LAT (DB °F)	MCA	МОР	SYSTEM	REMARKS
HRV-1	APPARATUS BAY	RENEWAIRE	EV450JINS11EGNTFL	400	0.75	400	0.75	199	90.0	71.0	79.0	66.4	-7.0	49.3	10.1	15	120/1/60	SEE NOTES

NOTES:
1 PROVIDE W/ MERV-8 FILTERS

VRF-2-4

				E	EXHAUST F	AN SCHE	DULE				
		MODEL				EVT OD		WEIGHT	ELE	CTRIC	REMARKS
TAG	MANUF.	MODEL NO.	TYPE	CFM	DRIVE	EXT. SP. (IN)	RPM	WEIGHT (LBS)	FLA	SYSTEM	
EF-1-1	COOK	30XLPH	WALL	5800	BELT	0.40	791	301	7.8	208/3/60	SEE NOTES
EF-1-2	COOK	GCVF-180	CEILING	150	DIRECT	0.75	1349	17	1.2	115/1/60	SEE NOTES
EF-1-3	COOK	100 SQN28DO60VF	IN-LINE	230	DIRECT	0.75	2611	70	4.4	115/1/60	SEE NOTES
EF-1-4	COOK	GCVF-180	CEILING	150	DIRECT	0.75	1349	17	1.2	115/1/60	SEE NOTES
EF-1-5	COOK	GCVF-700	CEILING	300	DIRECT	0.75	1498	37	4.4	115/1/60	SEE NOTES
EF-1-6	COOK	GCVF-700	CEILING	225	DIRECT	0.75	1498	37	4.4	115/1/60	SEE NOTES
EF-1-7	COOK	GCVF-700	CEILING	225	DIRECT	0.75	1498	37	4.4	115/1/60	SEE NOTES
EF-1-8	COOK	GCVF-180	CEILING	150	DIRECT	0.75	1349	17	1.2	115/1/60	SEE NOTES
EF-2-1	COOK	GCVF-180	CEILING	150	DIRECT	0.75	1349	17	1.2	115/1/60	SEE NOTES
NOTES:	•	-			•	•	•	•	•	•	<b>'</b>

PROVIDE WITH THE FOLLOWING OPTIONS: INTEGRAL BACKDRAFT DAMPER.

WHITE ALUMINUM GRILLE (CEILING MOUNTED).

- DAMPERS SHALL HAVE AN AIR LEAKAGE RATE OF NOT GREATER THAN 20 CFM/SQFT WHERE NOT LESS THAN 24" IN EITHER DIMENSION AND 40 CFM/SQFT WHERE LESS THAN 24" IN EITHER DIMENSION. THE RATE OF AIR LEAKAGE SHALL BE DETERMINED AT 1.0" W.C. WHEN TESTED IN ACCORDANCE WITH AMCA 500D FOR SUCH PURPOSE. THE DAMPERS SHALL BE LABELED BY AN APPROVED AGENCY.

# HYDRONIC UNIT HEATER SCHEDULE

			MODEL					EWT	LWT	WPD	ELEC	TRIC	
TAG	SERVICE	MANUF.	NO.	SIZE	CFM	BTUH	GPM	(°F)	(°F)	(FT)	HP	SYSTEM	REMARKS
UH-1-4	107 MECHANICAL	MODINE	HSB/HC 18L	12-3/8"(H) x 13"(W) x 11" (D)	230	8,700	1.2	180	140	0.1	1/60	120/1/60	SEE NOTES
UH-2-1	201 MEZZANINE STORAGE	MODINE	HSB/HC 18L	12-3/8"(H) x 13"(W) x 11" (D)	230	8,700	1.2	180	140	0.1	1/60	120/1/60	SEE NOTES

25

25

VERTICAL MOUNT. PROVIDE WITH WALL-MOUNTING BRACKET. FURNISH WITH LINE-VOLTAGE THERMOSTAT (WALL-MOUNTED).

PROVIDE WITH INTEGRAL DISCONNECT.

108 CORRIDOR BEACON MORRIS

	HYDRONIC CABINET HEATER SCHEDULE												
MODEL	OUTPUT		DEPTH	WIDTH	LENGTH		EFT	LFT	WPD	ELEC	TRIC		
NO.	(BTU/H)	MOUNTING	(IN)	(IN)	(IN)	GPM	(°F)	(°F)	(FT)	MCA	SYSTEM	REMARKS	
RC-1200-U2	16,400	CEILING RECESS	9-1/2	25	35	0.9	180	140	1.5	0.8	120/1/60	SEE NOTES	
RC-1200-U2	16,400	CEILING RECESS	9-1/2	25	35	0.9	180	140	1.5	0.8	120/1/60	SEE NOTES	

180

180

140

140

1.5

1.5

8.0

8.0

120/1/60

120/1/60

SEE NOTES

SEE NOTES

0.9

0.9

35

35

PROVIDE DISCONNECT FOR INSTALLATION BY EC.

SERVICE

126 LOBBY

S1 STAIR-1

S2 STAIR-2

PROVIDE WITH W120 RECESSED KIT & LOW TEMP AQUASTAT.

SHALL BE SUITABLE FOR USE WITH PROPYLENE GLYCOL/WATER SYSTEMS. PROVIDE HANGING BRACKET AND INSTALL PER MANUF'S REQUIREMENTS.

MANUF.

BEACON MORRIS

BEACON MORRIS

BEACON MORRIS RC-1200-U2

RC-1200-U2

		MODEL				WEIGHT	ELEC	TRIC					
TAG	SERVICE	NO.	SERIES	TYPE	DIAMETER	(LBS)	HP (MOTOR)	SYSTEM	REMARKS				
CF-1	APPARATUS BAY	PF8-08	POWERFOIL 8	CEILING SUSPENDED	8-FEET	135	1	208/1/60	SEE NOTES				
CF-2	APPARATUS BAY	PF8-08	POWERFOIL 8	CEILING SUSPENDED	8-FEET	135	1	208/1/60	SEE NOTES				
CF-3	APPARATUS BAY	PF8-08	POWERFOIL 8	CEILING SUSPENDED	8-FEET	135	1	208/1/60	SEE NOTES				
CF-4	APPARATUS BAY	PF8-08	POWERFOIL 8	CEILING SUSPENDED	8-FEET	135	1	208/1/60	SEE NOTES				
CF-5	APPARATUS BAY	PF8-08	POWERFOIL 8	CEILING SUSPENDED	8-FEET	135	1	208/1/60	SEE NOTES				
CF-6	APPARATUS BAY	PF8-08	POWERFOIL 8	CEILING SUSPENDED	8-FEET	135	1	208/1/60	SEE NOTES				

16,400 WALL/RECESS

16,400 WALL/RECESS

9-1/2

9-1/2

BASIS OF DESIGN: BIG ASS FANS

NOTES: 1. PROVIDE WITH:

TAG

CH-1-1

CH-1-2

CH-1-3

CH-1-4

- WALL MOUNTED, CONTROLLER WITH ON/OFF AND VARIABLE SPEED CAPACITY. NOTE: ALL (QTY: 6) CEILING FANS SHALL BE CONTROLLED VIA SINGLE SWITCH.

# VRF HEAT RECOVERY BOX SCHEDULE

	VICE TIE/CI TREGGVEICH BOX GOITEBGEE											
						PORTS	ORTS ELECTRIC					
TAG	SERVICE	MANUF.	MODEL NO.	TYPE	REFRIG.	NO. / MAX	MCA	SYSTEM	WEIGHT (LBS.)	REMARKS		
HRB-1-1	107 MECHANICAL	LENNOX	V8MSBB06-3P	HEAT RECOVERY	R-410A	5/6	0.4	208/1/60	84			
HRB-2-1	217 RECORD FILES	LENNOX	V8MSBB04-3P	HEAT RECOVERY	R-410A	4/4	0.4	208/1/60	84			

DIFFUSER AND GRILLE SCHEDULE												
TAG	TAG MODEL NO. MANUF. NE		NECK SIZE	LENGTH	FACE SIZE	MOUNTING TYPE	MATERIAL	DAMPER	REMARKS			
ED-1	UNI2	NAILOR	6"ø	-	24"x24"	LAY-IN	ALUMINUM	VOLUME DAMPER	SEE NOTES			
ED-2	UNI2	NAILOR	8"ø	-	24"x24"	LAY-IN	ALUMINUM	VOLUME DAMPER	SEE NOTES			
EG	EG 6155H-O NAILOR 12"x10"		-	12"x10"	SURFACE	STEEL		SEE NOTES				
EG-1	6155H-O	NAILOR	10" x 6"	-	10" x 6"	SURFACE	STEEL		SEE NOTES			
EG-2	EG-2 6155H-O NAILOR 12" x 12"			-	12"x12"	SURFACE	STEEL		SEE NOTES			
LD-1	5310(I)-1219	NAILOR	8"ø	48"		LAY-IN	STEEL	VOLUME DAMPER	SEE NOTES			
LD-2	5310(I)-1219	NAILOR	10"ø	48"		LAY-IN	STEEL	VOLUME DAMPER	SEE NOTES			
RD-1	UNI2	NAILOR	6"ø	-	24"x24"	LAY-IN	STEEL	VOLUME DAMPER	SEE NOTES			
RD-2	UNI2	NAILOR	8"ø	-	24"x24"	LAY-IN	STEEL	VOLUME DAMPER	SEE NOTES			
RD-4	UNI2	NAILOR	12"ø	-	24"x24"	LAY-IN	STEEL	VOLUME DAMPER	SEE NOTES			
RD-5	UNI2	NAILOR	14"ø	-	24"x24"	LAY-IN	STEEL	VOLUME DAMPER	SEE NOTES			
RG-1	6155H-O	NAILOR	16" x 8"	-	16" x 8"	SURFACE	STEEL	INTEGRAL DAMPER	SEE NOTES			
SD-1	UNI2	NAILOR	6"ø	-	24"x24"	LAY-IN	STEEL	VOLUME DAMPER	SEE NOTES			
SD-2	UNI2	NAILOR	8"ø	-	24"x24"	LAY-IN	STEEL	VOLUME DAMPER	SEE NOTES			
SD-3	UNI2	NAILOR	10"ø	-	24"x24"	LAY-IN	STEEL	VOLUME DAMPER	SEE NOTES			
SG-1	51DH-O	NAILOR	8" x 6"	-	8" x 6"	SURFACE	STEEL	INTEGRAL DAMPER	SEE NOTES			
SG-2	51DH-O	NAILOR	14"x12"	-	24"x24"	SURFACE	STEEL	VOLUME DAMPER	SEE NOTES			
SG-3	51DH-O	NAILOR	60" x 60"	-	60" x 60"	SURFACE	STEEL	INTEGRAL DAMPER	SEE NOTES			

NOTES:

1. ARCHITECT TO SELECT COLOR. PROVIDE AUXILIARY FRAME AS REQUIRED FOR SURFACE MOUNTING.

PROVIDE SQUARE TO ROUND ADAPTER WHERE REQUIRED.

DUCT INSULATION SCHEDULE										
SERVICE	TEMP. RANGE (°F)	LOCATION	TYPE	DUCT SIZE	THICKNESS	JACKET	REMARKS			
SUPPLY AIR DUCTWORK	55 - 95	ALL	MFB	ALL	R-6	NONE				
OUTDOOR AIR DUCTWORK	55 - 95	ALL	MFB	ALL	R-6	NONE				
GREASE DUCTWORK		- SEE NOTE 2 -								

NOTES: 1. SEE SECTION 23 07 13.

2. WRAP WITH APPROVED FIELD-APPLIED GREASE DUCT ENCLOSURE MATERIAL IN ACCORDANCE WITH ASTM E 2336. ENCLOSURE MATERIALS SHALL BE INSTALLED ACCORDING TO MANUFACTURER'S INSTALLATION INSTRUCTIONS TO PROVIDE AND MAINTAIN FIRE-RATED ENCLUSURE THROUGHOUT ENTIRE LENGTH AND MEET

CLEARANCE REQUIREMENTS FROM COMUSTIBLE SEE SECTION 23 51 01 FOR ADDITIONAL INFORMATION.

## LOUVER SCHEDULE

				DIMEN	ISIONS				
TAG	SERVICE	MANUF.	MODEL NO.	WIDTH	HEIGHT	MATERIAL	MOTORIZED DAMPER	REMARKS	
LV-1	106 STORAGE	NAILOR	LE-23	16"	12"	ALUMINUM	YES	SEE NOTES	
LV-2	107 MECHANICAL	NAILOR	LE-23	28"	16"	ALUMINUM	YES	SEE NOTES	
LV-3	105 SCBA	NAILOR	LE-23	66"	16"	ALUMINUM	YES	SEE NOTES	74
LV-4	HRV-1 EA	NAILOR	LE-23	16"	16"	ALUMINUM	YES	SEE NOTES	
LV-5	HRV-1 OA	NAILOR	LE-23	16"	16"	ALUMINUM	YES	SEE NOTES	
LV-6	100 APPARATUS BAY OA	NAILOR	LE-23	60"	60"	ALUMINUM	YES	SEE NOTES	
LV-7	215 DRESS UNIFORM	NAILOR	LE-23	16"	16"	ALUMINUM	YES	SEE NOTES	
LV-8	ERV-1 OA	NAILOR	LE-23	28"	24"	ALUMINUM	YES	SEE NOTES	
LV-8	MUA-1 OA	NAILOR	LE-23	36"	30"	ALUMINUM	YES	SEE NOTES	
LV-9	ERV-1 EA	NAILOR	LE-23	28"	24"	ALUMINUM	YES	SEE NOTES	

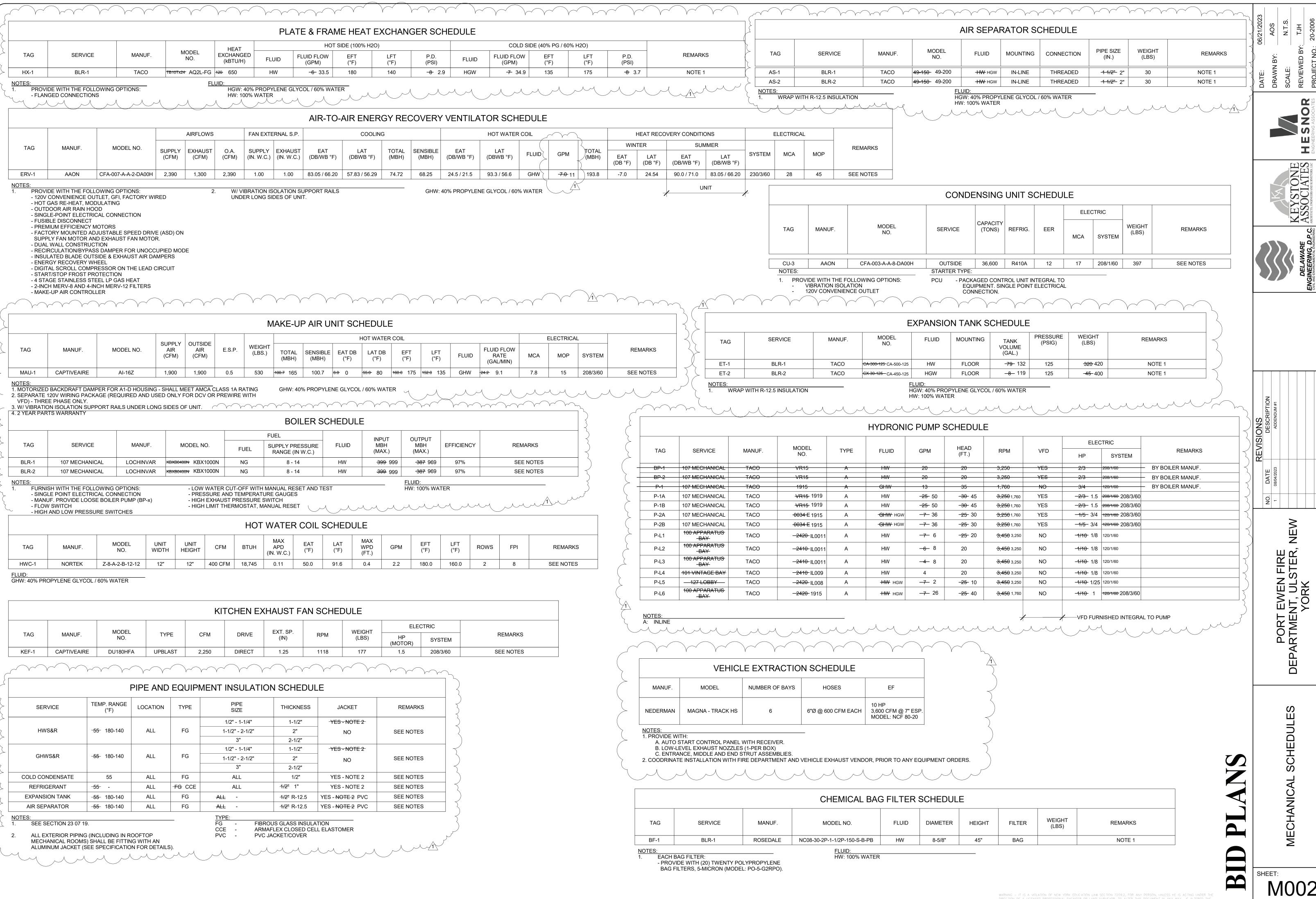
- ALL LOUVERS SHALL BE PROVIDED WITH THE FOLLOWING FEATURES: 2. - TAMCO 9000 BF MOTORIZED DAMPER - SHALL BE CLASS 1 AND HAVE AN AIR LEAKAGE RATE
  - OF NOT GREATER THAN 4 CFM/SQFT OF DAMPER SURFACE AREA @ 1.0" W.C. AND SHALL BE LABELED
  - BY AN APPROVED AGENCY WHEN TESTED IN ACCORDANCE WITH AMCA 500D FOR SUCH PURPOSE. - ACTUATOR(s) SHALL BE FURNISHED BY MC, INSTALLED BY CONTROLS CONTRACTOR.
- INSULATED BOX CONSTRUCTION - BIRD SCREEN

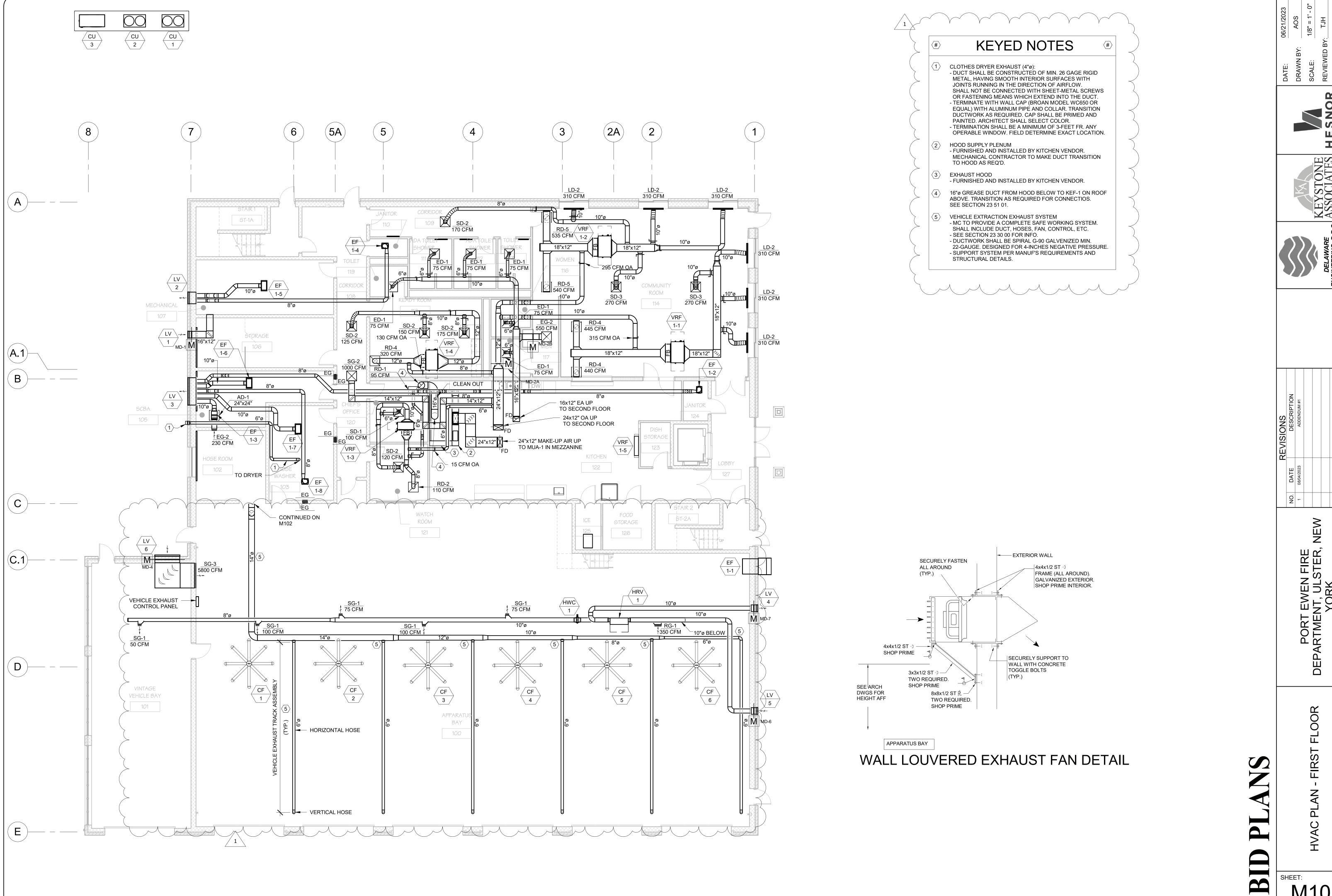
VERIFY EXACT DIMENSIONS WITH STRUCTURAL AND ARCHITECTURAL DRAWINGS PRIOR TO ORDERING.

MINERAL FIBER BLANKET

FINISH TO BE SELECTED BY ARCHITECT. FOR BIDDING PURPOSES, FIGURE PREMIUM COLOR.

**M** 





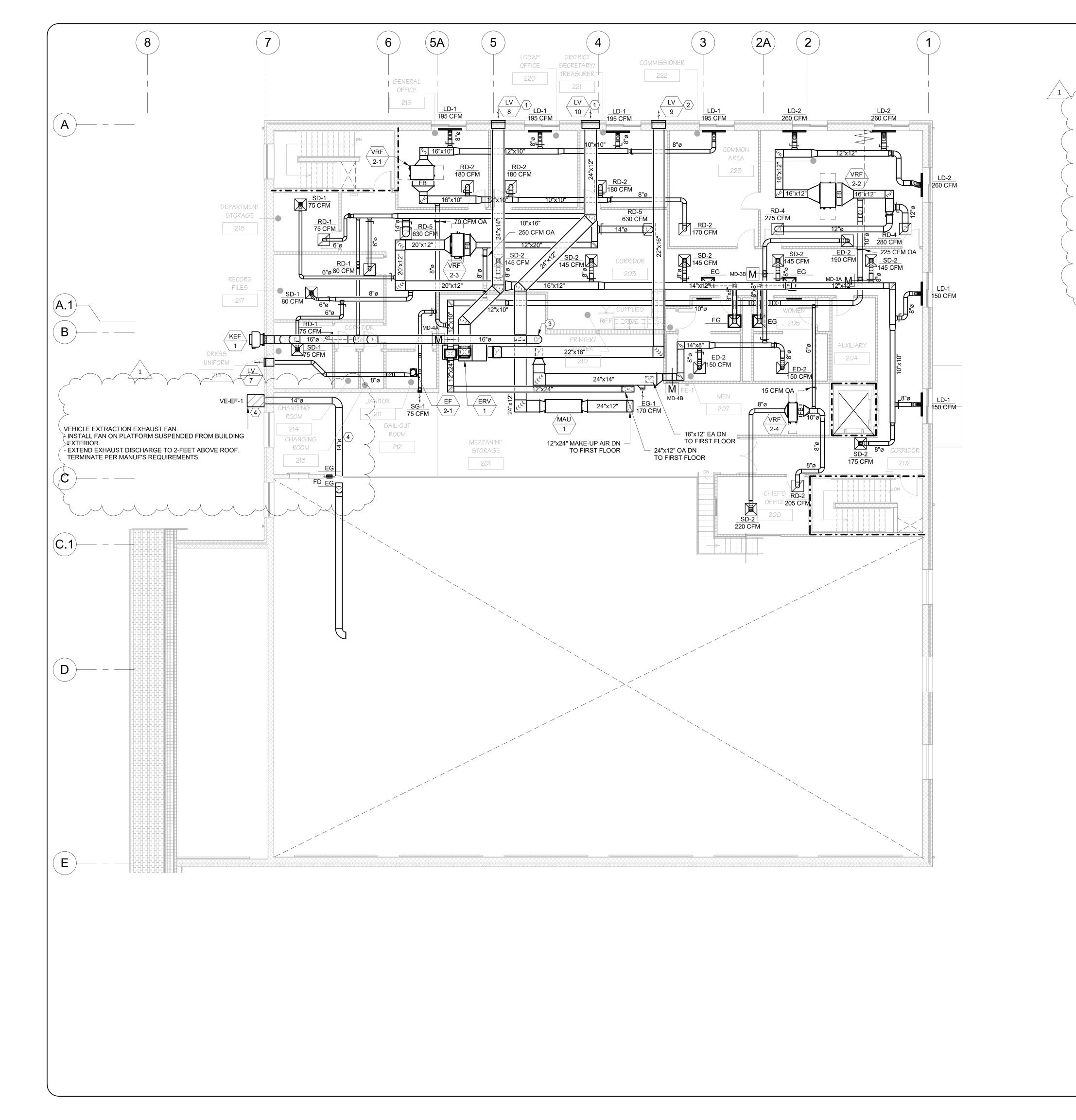








REVISIONS	DESCRIPTION	ADDENDUM #1			
_	DATE	08/04/2023			
	NO.	-			



INTAKE SHALL BE NO CLOSER THAN 10-FEET HORIZONTALLY FROM ANY EXHAUST, PARKING, VENTS, ETC. - BRING ANY CONCERNS TO ENGINEER'S ATTENTION.

EXHAUST SHALL BE NO CLOSER THAN 3-FEET FROM ANY OPERABLE OPENINGS. - BRING ANY CONCERNS TO ENGINEER'S ATTENTION.

16"ø GREASE DUCT FROM HOOD BELOW TO KEF-1. TRANSITION AS REQUIRED FOR CONNECTIOS. SEE SECTION 23 51 01.

VEHICLE EXTRACTION EXHAUST SYSTEM
- MC TO PROVIDE A COMPLETE SAFE WORKING SYSTEM. SHALL INCLUDE DUCT, HOSES, FAN, CONTROL, ETC. - SEE SECTION 23 30 00 FOR INFO. - DUCTWORK SHALL BE SPIRAL G-90 GALVENIZED MIN. 22-GAUGE. DESIGNED FOR 4-INCHES NEGATIVE PRESSURE. - SUPPORT SYSTEM PER MANUF'S REQUIREMENTS AND STRUCTURAL DETAILS.

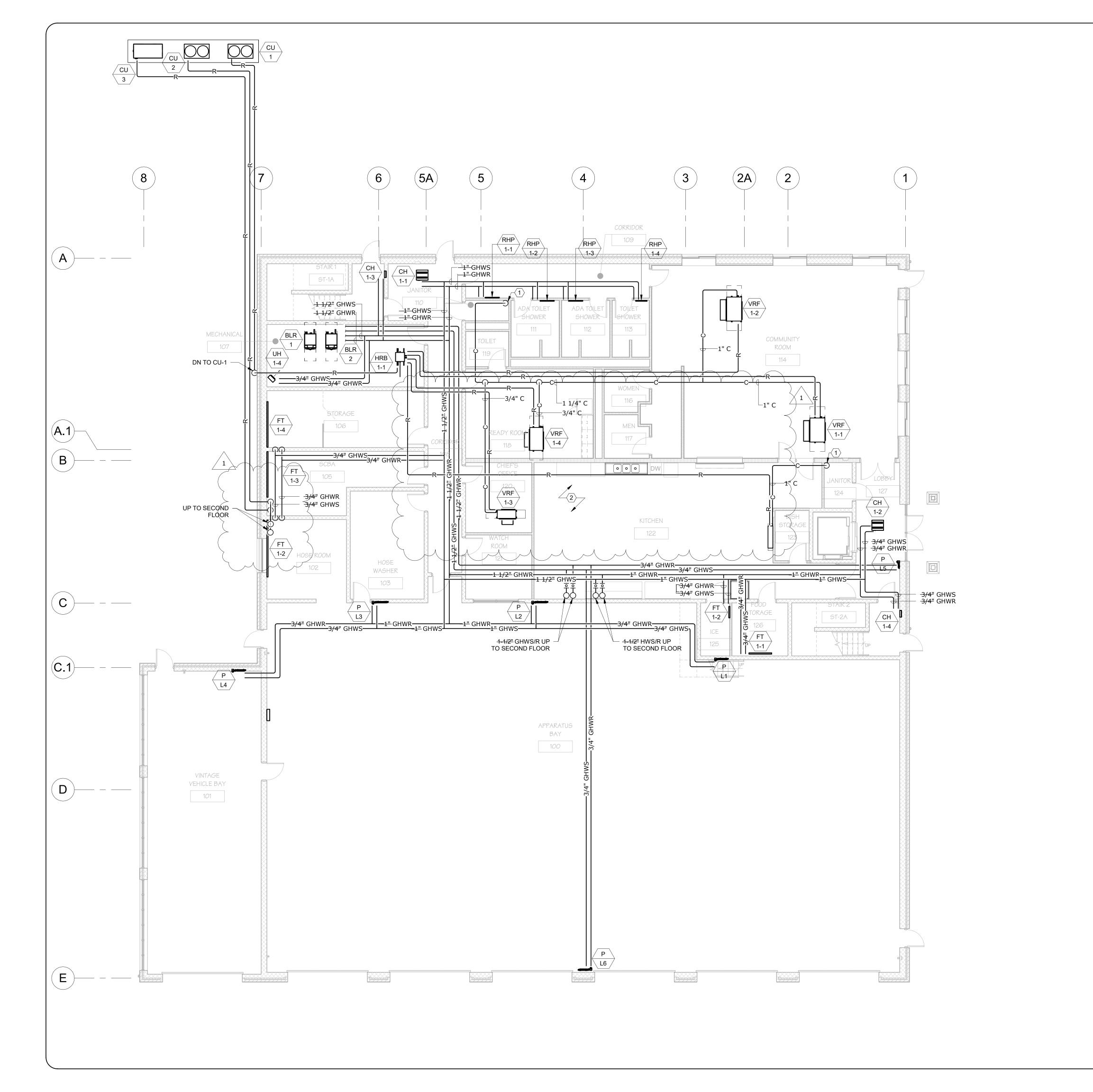
**KEYED NOTES** 







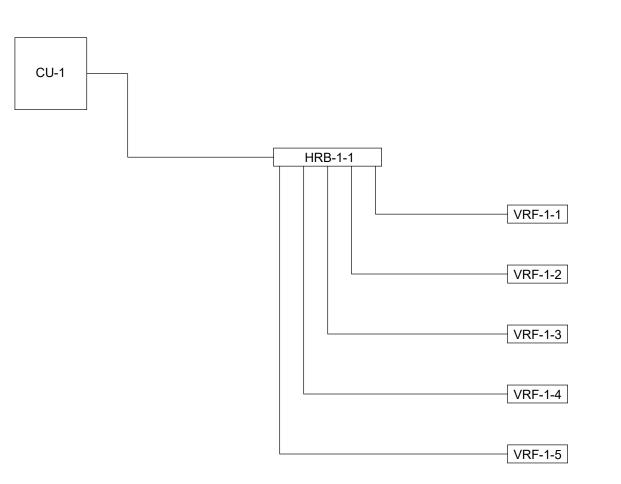
REVISIONS	DESCRIPTION	ADDENDUM #1			
	DATE	08/04/2023			
	NO.	1			
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## **CONDENSATE PIPING**

- INSTALL NEW CONDENSATE PIPING SYSTEM FOR ALL NEW FURNACES, VRF FAN COILS AND HEAT RECOVERY BOX. PIPING SHALL BE TYPE L COPPER. CONTRACTOR SHALL BE RESPONSIBLE FOR PIPING ELEVATIONS.
- PRIOR TO ORDERING ANY EQUIPMENT:

   CONTRACTOR SHALL WALK SITE WITH OWNER'S REP AND ENGINEER TO "PROVE" INSTALLATION OF NEW CONDENSATE PIPING SYSTEM.



#### FIRST FLOOR VRF REFRIGERANT PIPING ONE-LINE DIAGRAM

GENERAL NOTE SEE DWG M601 FOR HOT WATER ONE-LINE DIAGRAM

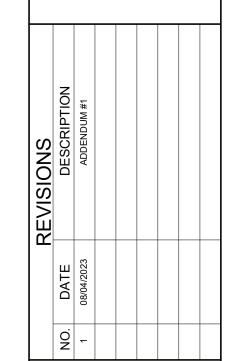
# # KEYED NOTES

- EXTEND CONDENSATE DOWN TO JAN SINK.
  TERMINATE W/ AIR GAP.
  INSTALL VERTICAL CONDENSATE PIPE EXPOSED AND TIGHT
  TO WALL. VERTICAL EXPOSED PIPE SHALL BE SUPPORTED
  AT 3 EQUAL INTERVALS (MIN.).
- SEE HW ONE LINE DIAGRAM, DWG M601 FOR PIPING SIZING AND ADDITIONAL INFORMATION.





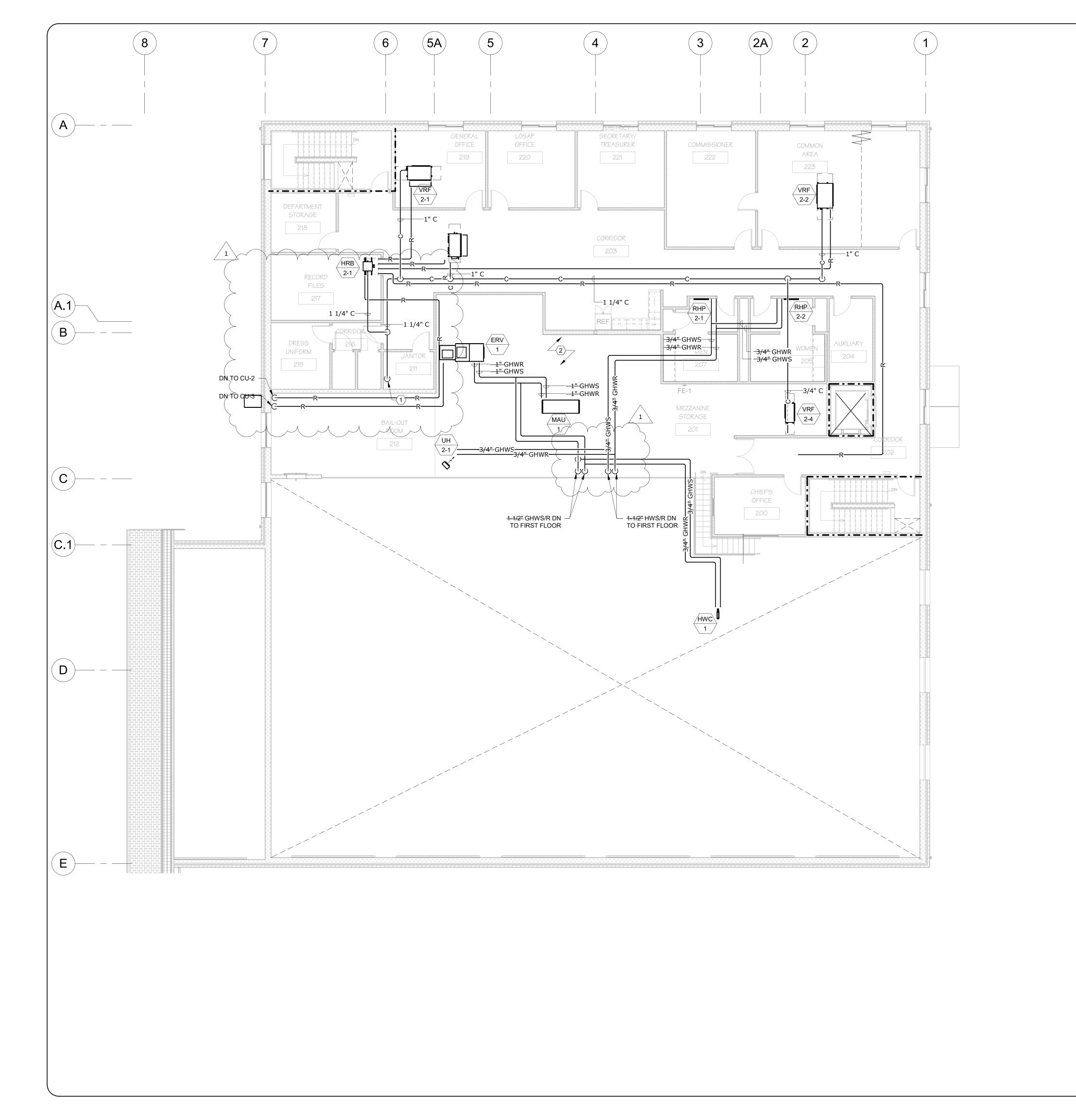




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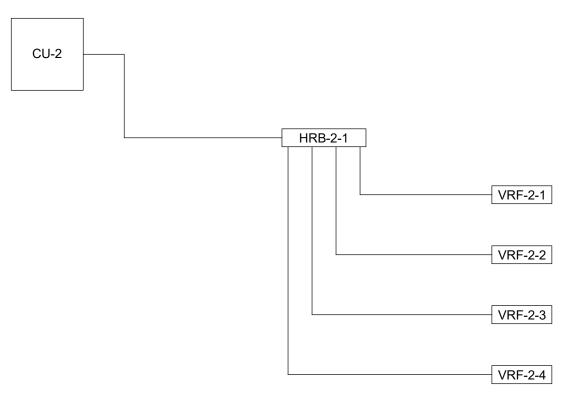
IPING PLAN - FIRST FLOOR

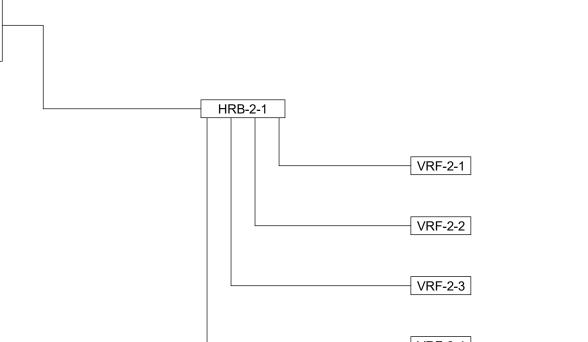
SHEET: M201



## **CONDENSATE PIPING**

- INSTALL NEW CONDENSATE PIPING SYSTEM FOR ALL NEW FURNACES, VRF FAN COILS AND HEAT RECOVERY BOX. PIPING SHALL BE TYPE L COPPER. CONTRACTOR SHALL BE RESPONSIBLE FOR PIPING ELEVATIONS.
- PRIOR TO ORDERING ANY EQUIPMENT:
   CONTRACTOR SHALL WALK SITE WITH OWNER'S REP AND ENGINEER TO "PROVE" INSTALLATION OF NEW CONDENSATE PIPING SYSTEM.
- SEE DIVISION 15 PART 15.4.9 ON SHEET M-601 FOR ADDITIONAL INFORMATION.



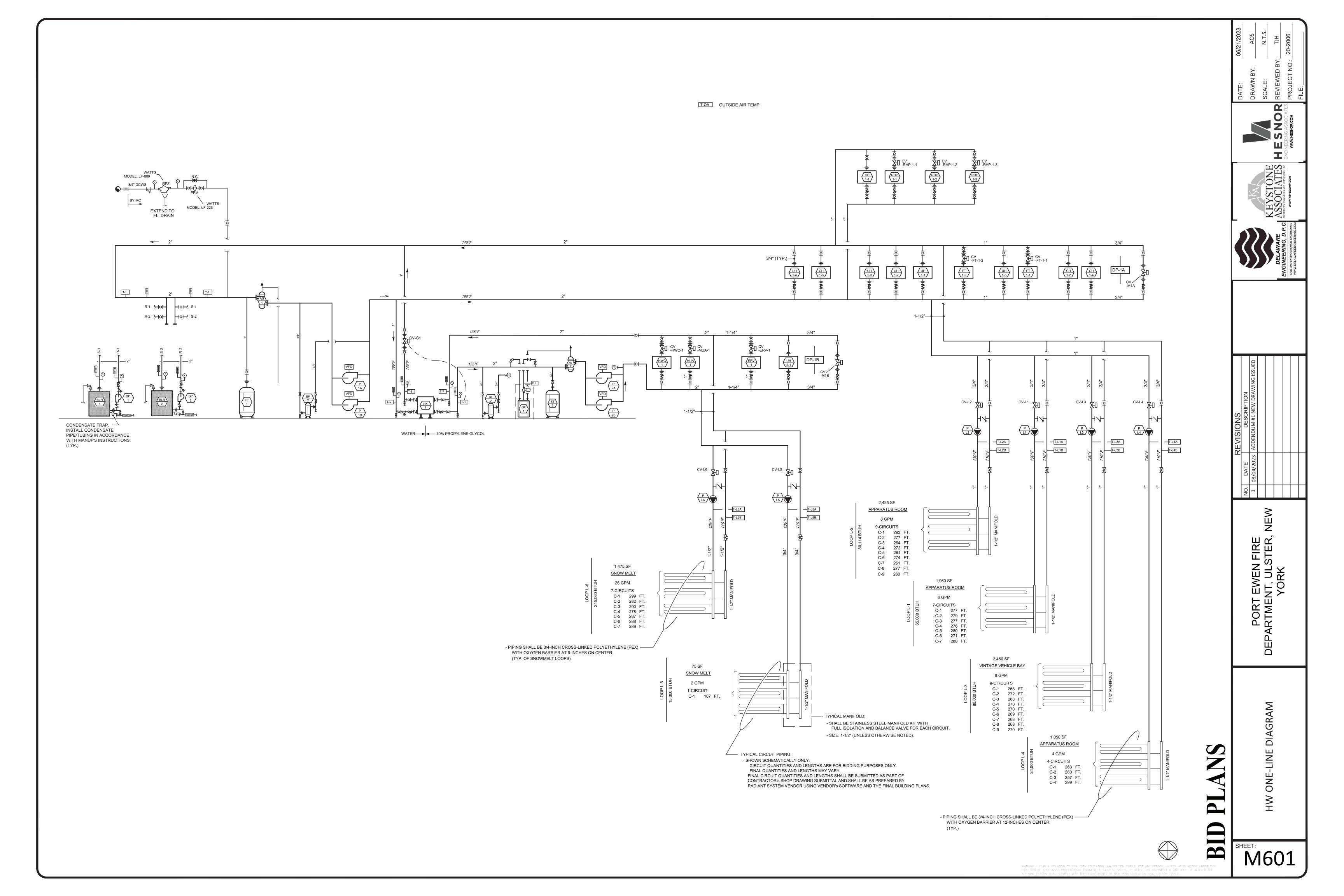


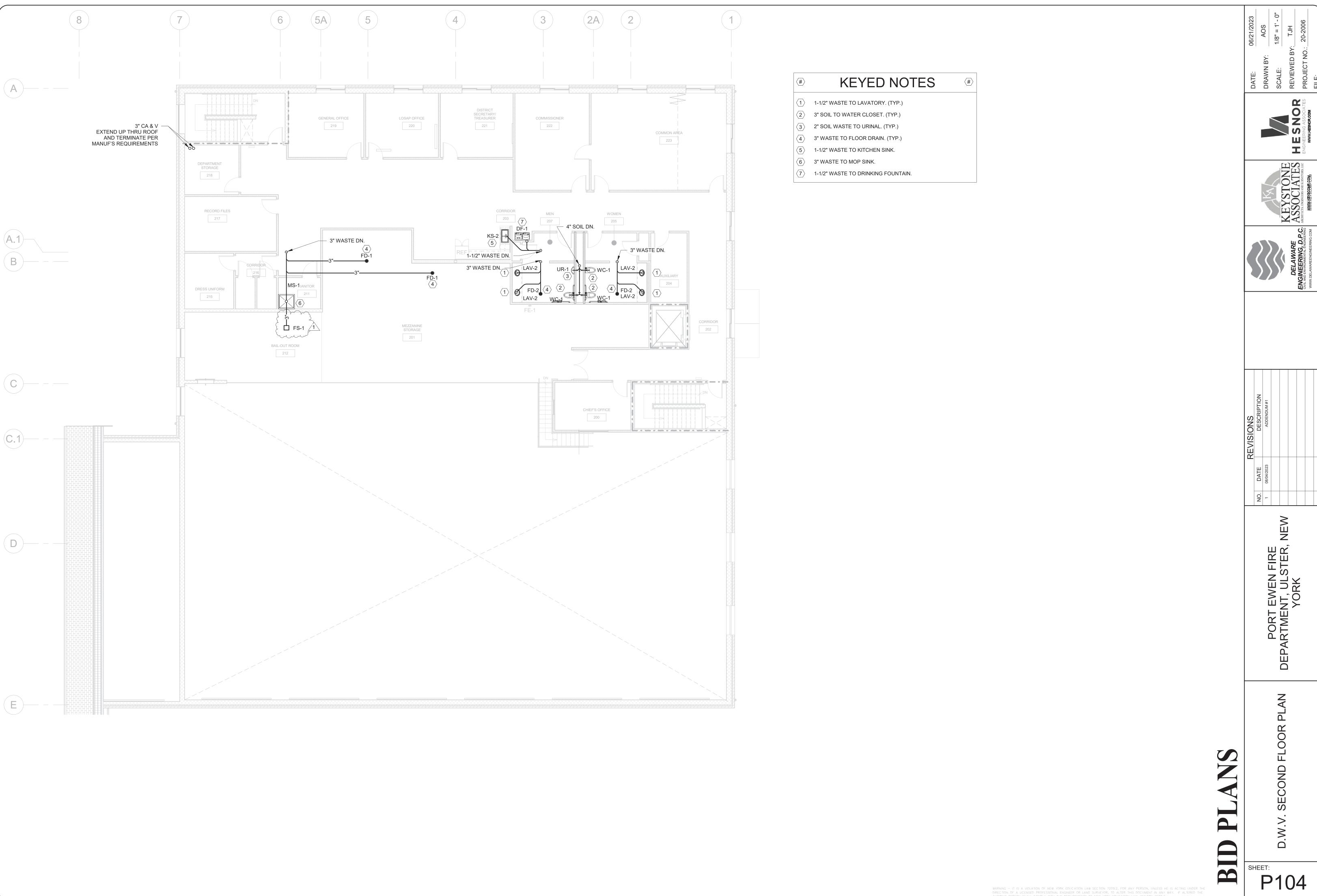
#### SECOND FLOOR VRF REFRIGERANT PIPING ONE-LINE DIAGRAM

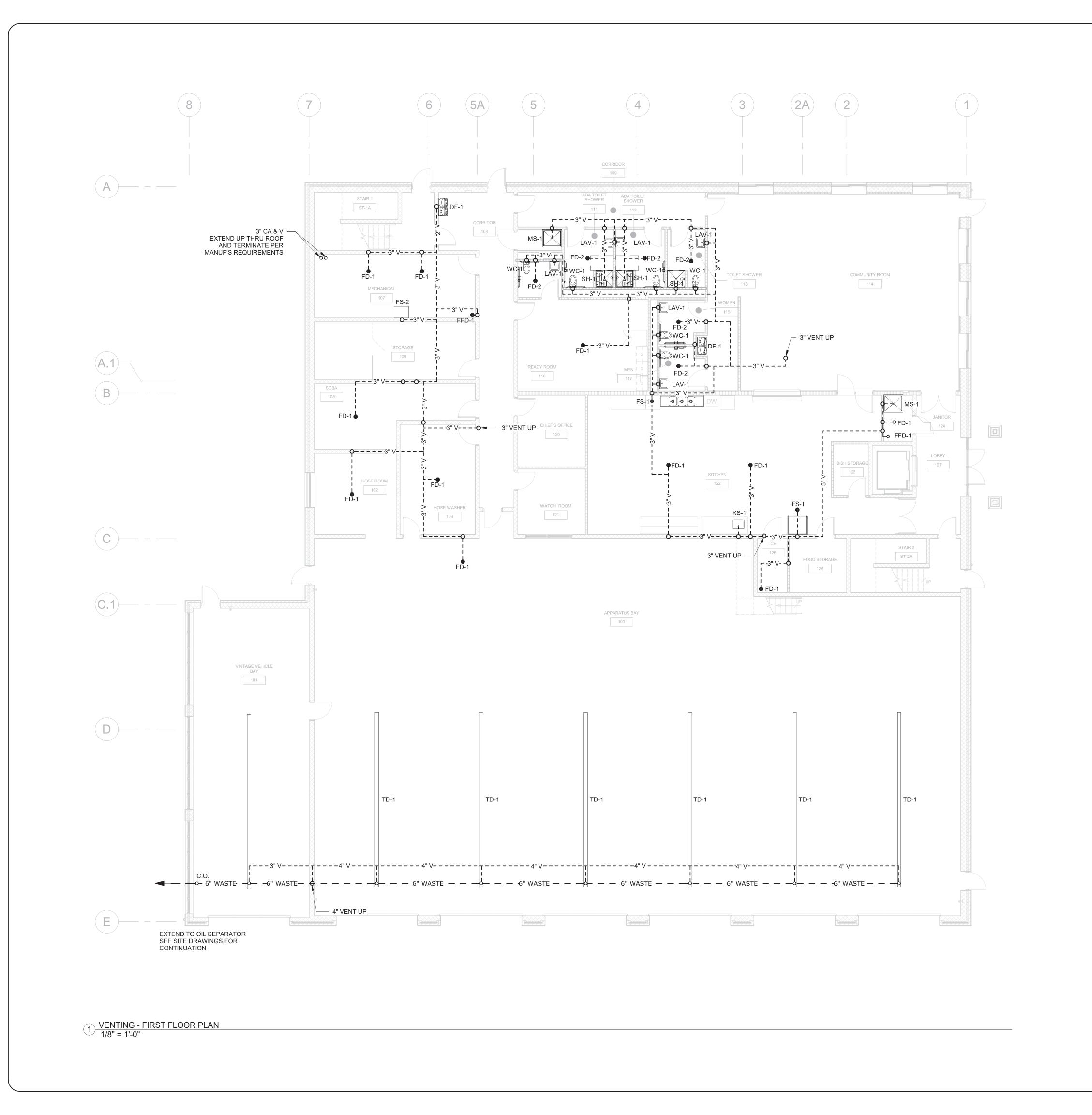
#	KEYED NOTES #
1	EXTEND CONDENSATE DOWN TO JAN SINK. TERMINATE W/ AIR GAP. INSTALL VERTICAL CONDENSATE PIPE EXPOSED AND TIGHT TO WALL. VERTICAL EXPOSED PIPE SHALL BE SUPPORTED AT 3 EQUAL INTERVALS (MIN.).
<b>(2)</b>	SEE HW ONE LINE DIAGRAM, DWG M601 FOR PIPING SIZING AND ADDITIONAL INFORMATION.

REVISIONS	DESCRIPTION	ADDENDUM #1			
4	DATE	08/04/2023			
	NO.	-			

BID



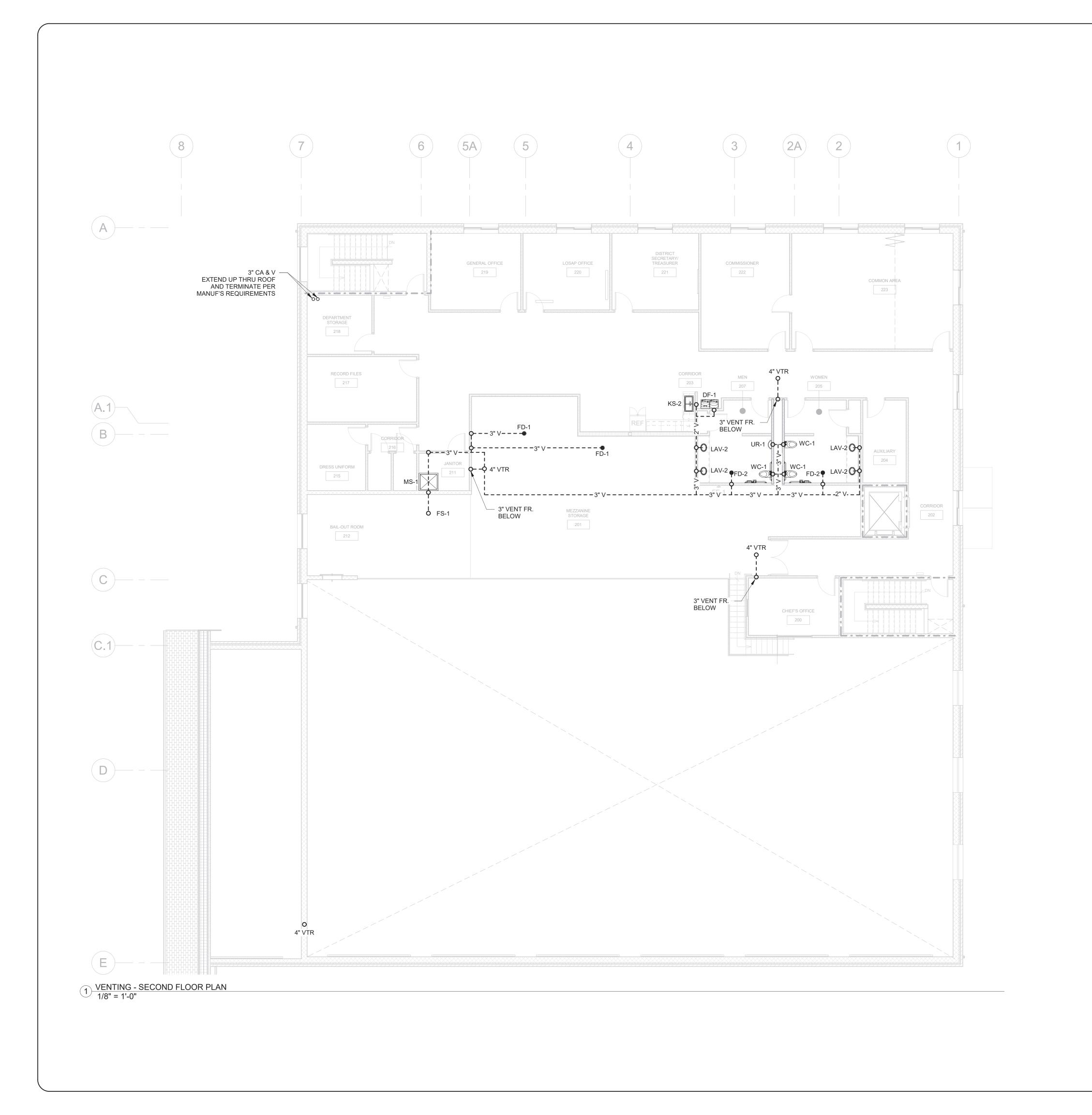






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