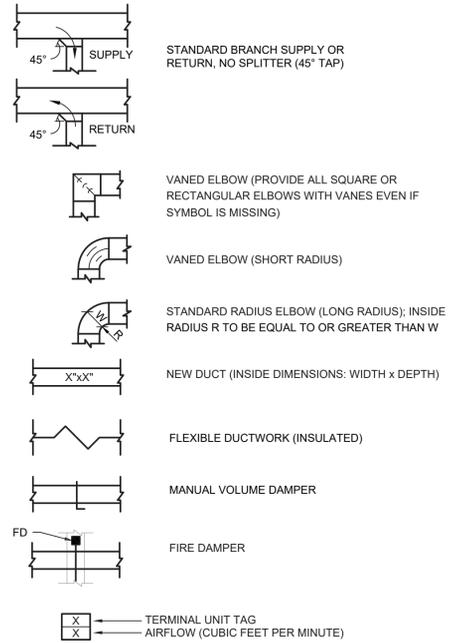
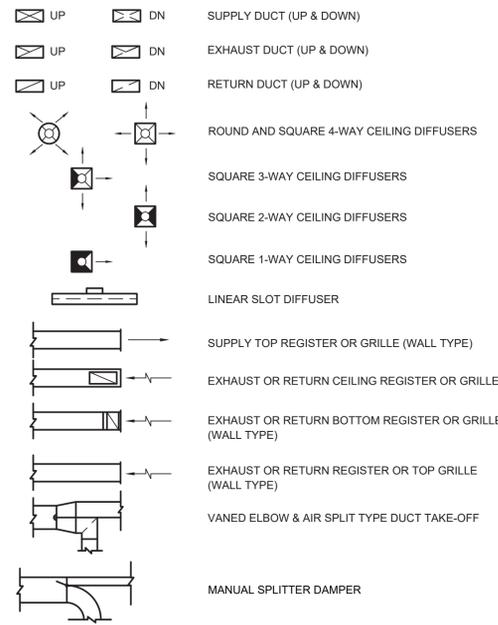
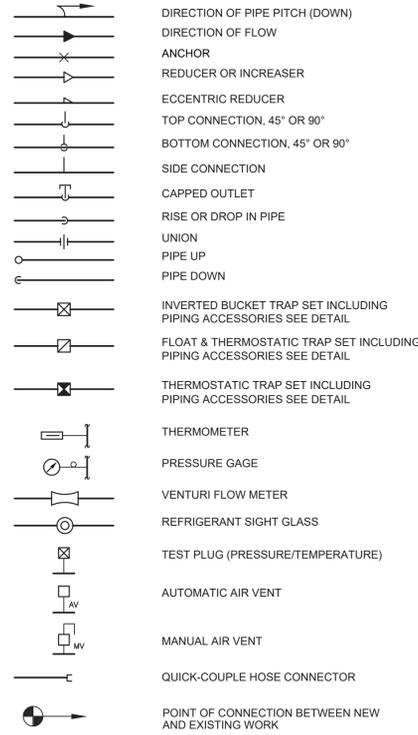


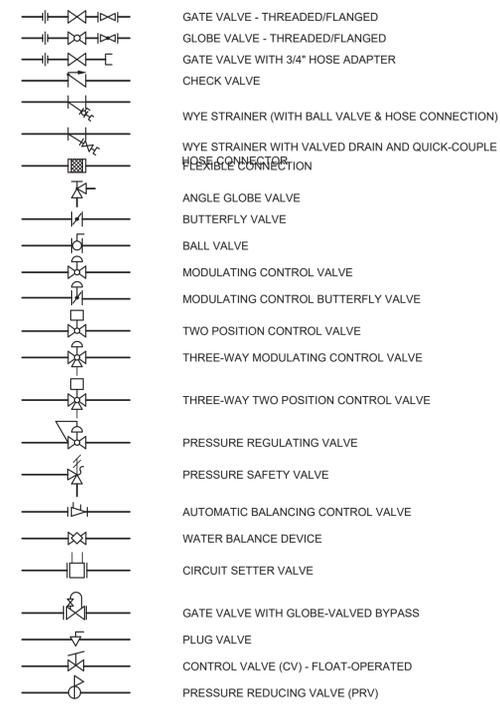
Mechanical Legend :



Piping Legend:



Valve Legend:



Mechanical Notes:

- ALL MATERIALS AND EQUIPMENT ARE TO BE NEW, UNUSED, AND FREE FROM DEFECTS OF ANY KIND. THE BASIS OF QUALITY SHALL BE THE LATEST REVISION OF ASTM, ANSI, OR OTHER ACCEPTABLE STANDARDS.
- THESE DRAWINGS ARE DIAGRAMMATIC, AND INDICATE GENERAL ARRANGEMENT OF WORK. THE CONTRACTOR SHALL BE RESPONSIBLE TO HAVE REVIEWED THE SITE FOR HIS WORK PRIOR TO HAVING SUBMITTED HIS PROPOSAL. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR CONDITIONS FOUND DURING THE COURSE OF THE CONTRACT.
- THE CONTRACTOR SHALL COORDINATE HIS WORK WITH THAT OF ALL OTHER TRADES.
- ALL WORK INCLUDING LABOR AND MATERIALS SHALL BE FULLY GUARANTEED FOR ONE (1) YEAR FROM THE DATE OF PAYMENT AND FINAL ACCEPTANCE BY THE OWNER AND ENGINEER.
- ALL CUTTING, PATCHING, FIRE-STOPPING, AND SURFACE RESTORATION IN CONNECTION WITH THIS TRADE SHALL BE COMPLETED BY THIS CONTRACTOR.
- A MINIMUM OF FOUR (4) COPIES OF SHOP DRAWINGS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO ORDERING AND INSTALLATION OF THE EQUIPMENT AND/OR MATERIALS. BY SUBMITTING SHOP DRAWINGS, THE CONTRACTOR REPRESENTS THAT ACTUAL FIELD CONDITIONS ARE VERIFIED BY HIM AND ARE REFLECTED ON HIS SUBMITTALS.
- THIS CONTRACTOR SHALL PAY ALL FEES, GIVE ALL NOTICES, FILE ALL NECESSARY DRAWINGS, AND OBTAIN ALL PERMITS, INSPECTIONS AND CERTIFICATES OF APPROVAL REQUIRED IN CONNECTION WITH WORK UNDER THIS CONTRACT.
- ALL WORK IN ASSOCIATION WITH THIS CONTRACT SHALL BE COMPLETED IN STRICT COMPLIANCE WITH THE 2020 BUILDING CODE OF NEW YORK STATE, 2020 MECHANICAL CODE OF NEW YORK STATE & 2020 ENERGY CONSERVATION CONSTRUCTION CODE OF NEW YORK STATE.
- ALL HYDRONIC HOT WATER PIPING AND FITTINGS ARE TO BE INSULATED WITH A MINIMUM OF R-3 INSULATION. ALL JOINTS ARE TO BE COMPLETELY SEALED A MINIMUM OF 6" BEYOND JOINT ENDS.
- ALL PIPING SHALL BE PROPERLY SUPPORTED AND ROUTED PARALLEL OR PERPENDICULAR TO BUILDING WALLS. THE CONTRACTOR SHALL FURNISH AND INSTALL ALL SUPPORT HANGERS AND MISCELLANEOUS METALS REQUIRED FOR PROPER INSTALLATION OF WORK.
- ALL PIPING SHALL BE PITCHED SUCH THAT AIR IN THE SYSTEM CAN BE VENTED THROUGH MANUAL AIR VENTS.
- TEST PIPING AND PROVE TIGHT FOR AT LEAST TWO HOURS TO TWICE THE SYSTEM WORKING PRESSURE. TEST SHALL BE PERFORMED IN THE PRESENCE OF THE ENGINEER AND LOCAL INSPECTOR. TEST SHALL BE REPEATED IF NECESSARY UNTIL FINAL APPROVAL OF SYSTEM IS OBTAINED.
- SUPPORT HORIZONTAL PIPING UTILIZING A SPACING PER PIPING MANUFACTURER'S REQUIREMENTS.
- INSTALL VALVES ON THE ENTIRE DISTRIBUTION SYSTEM, SO LOCATED AS TO GIVE COMPLETE CONTROL TO ALL FIXTURES AND EQUIPMENT.
- INSTALL DRAIN VALVES AT BASE OF ALL RISERS AND AT LOW POINTS OF PIPING SYSTEM. INSTALL MANUAL AIR VENT VALVE FACILITIES AT THE TOP OF ALL RISERS AND AT HIGH POINTS OF THE PIPING SYSTEM.
- INSTALL ALL HYDRONIC PIPING AS HIGH AS POSSIBLE PROVIDING RISERS, DROPS AND OFFSETS TO CLEAR STRUCTURAL MEMBERS, LIGHT FIXTURES, OTHER PIPING, AND OTHER OBSTRUCTIONS. WHERE CONFLICTS ARISE, IT SHALL BE BROUGHT TO THE ENGINEER'S ATTENTION PRIOR TO PROCEEDING.
- THE ENTIRE HYDRONIC SYSTEM IS TO BE BALANCED TO WITHIN 10% OF THE SPECIFIED WATER FLOWRATE REQUIREMENTS. A CERTIFIED BALANCING REPORT AND VERIFICATION IS TO BE SUBMITTED TO THE ENGINEER PRIOR TO FINAL ACCEPTANCE.
- ALL DUCTWORK IS TO BE CONSTRUCTED OF GALVANIZED SHEET STEEL (EXCEPT WHERE OTHERWISE SPECIFIED) WITH GAUGES, BRACING AND CONSTRUCTION IN ACCORDANCE WITH THE LATEST SMACNA DUCT MANUAL STANDARDS AND ALL OTHER AUTHORITIES HAVING JURISDICTION.
- PROVIDE MANUAL DAMPERS AT EACH SPLIT OR TAP CONNECTION TO TRUNK DUCTS FOR BALANCING PURPOSES WHETHER OR NOT SPECIFICALLY SHOWN ON DRAWINGS. EACH DAMPER SHALL BE OF THE OPPOSED BLADE DAMPER TYPE INSTALLED WITH AN OPERATOR AND LOCKING DEVICE. ALL DAMPERS LOCATED ABOVE HARD OR INACCESSIBLE CEILINGS SHALL BE INSTALLED WITH REMOTE GEAR OPERATORS.
- FURNISH & INSTALL FUSIBLE LINK FIRE DAMPERS AT ALL LOCATIONS WHERE DUCT PENETRATES FIRE-RATED FLOOR OR CEILING ASSEMBLY WHETHER OR NOT SPECIFICALLY SHOWN. INSTALL DUCTWORK CASING ACCESS DOORS AND FRAMES AHEAD OF EACH FIRE DAMPER FOR INSPECTION AND MAINTENANCE. DOORS SHALL BE A MINIMUM OF 20 GA. DOUBLE PANEL INSULATED TYPE.
- INSTALL TURNING VANES ON ALL RECTANGULAR TURNS. TURNING VANES SHALL BE DOUBLE THICKNESS TYPE CONSTRUCTED IN ACCORDANCE WITH SMACNA MANUAL.
- ROUND SHEET STEEL ELBOWS ARE TO BE INSTALLED AT THE DUCT CONNECTION TO ALL SUPPLY AIR DIFFUSERS. SHEET STEEL PLENUM BOXES ARE TO BE INSTALLED AT THE DUCT CONNECTION TO ALL RETURN AND EXHAUST AIR GRILLES. THE CONTRACTOR IS TO PAINT THE INSIDE OF THE SHEET STEEL PLENUM BOXES FLAT BLACK.
- ALL SUPPLY AND RETURN DUCTWORK LOCATED IN UNCONDITIONED SPACES OR ABOVE CEILINGS SHALL BE INSULATED WITH A MINIMUM OF R-5 INSULATION. ALL DUCTWORK LOCATED OUTSIDE THE BUILDING ENVELOPE SHALL BE INSULATED WITH A MINIMUM OF R-8 INSULATION. INSULATION SHALL BE FIBERGLASS DUCT WRAP WITH VAPOR SEAL SECURELY TAPED AROUND DUCT. IF DUCT LINING IS TO BE USED, ALL DUCT SIZES SHOWN SHALL BE CONSIDERED TO BE INSIDE CLEAR DIMENSIONS.
- INSTALL ALL DUCTWORK AS HIGH AS POSSIBLE PROVIDING RISERS, DROPS AND OFFSETS TO CLEAR STRUCTURAL MEMBERS, LIGHT FIXTURES, OTHER PIPING, AND OTHER OBSTRUCTIONS. WHERE CONFLICTS ARISE, IT SHALL BE BROUGHT TO THE ENGINEER'S ATTENTION PRIOR TO PROCEEDING.
- THE ENTIRE AIR DISTRIBUTION SYSTEM IS TO BE BALANCED TO WITHIN 10% OF THE SPECIFIED AIRFLOW REQUIREMENTS.
- THE CONTRACTOR IS RESPONSIBLE TO TEST ALL EQUIPMENT, PIPING, FIXTURES, AND SYSTEMS INSTALLED UNDER THIS CONTRACT TO ENSURE PROPER OPERATION PRIOR TO FINAL ACCEPTANCE BY THE OWNER AND ENGINEER.
- THE CONTRACTOR IS RESPONSIBLE TO DETERMINE WHETHER SPECIAL LICENSING IS REQUIRED IN ORDER TO PERFORM THE REQUIRED WORK IN THE MUNICIPALITY WHERE THE PROJECT IS LOCATED. IF THE CONTRACTOR CANNOT OBTAIN THE REQUIRED LICENSING TO COMPLETE THE WORK WITHIN THE PROJECT SCHEDULE, THEN THE CONTRACTOR SHALL NOT BE PERMITTED TO BID ON THIS PROJECT.
- CONTRACTOR IS RESPONSIBLE TO CREATE AND SUBMIT RED-LINE "AS-BUILT" PLANS TO THE ENGINEER AT THE END OF THE PROJECT. AS-BUILT PLANS SHALL ACCURATELY REPRESENT THE SYSTEMS AS THEY WERE INSTALLED.

Mechanical Equipment:

- T** WIRED ZONE CONTROLLER TYPICAL OF HITACHI MODEL CW01; LARGE BACKLIT LCD WITH CONTROL OF TEMPERATURE, MODE AND FAN SPEED; MTD. @ 5'-0" A.F.F.
- T H** PROGRAMMABLE THERMOSTAT TYPICAL OF HONEYWELL MODEL TH8321R1001; 7 DAY PROGRAMMABLE; MTD. @ 5'-0" A.F.F.
- CC** CENTRAL CONTROLLER TYPICAL OF HITACHI MODEL CCL01; CONTROLS UP TO 64 GROUPS OF INDOOR UNITS W/ TOUCH SCREEN INTERFACE; MTD. @ 5'-0" A.F.F.
- COB** VRF CHANGE OVER BOX FOR SIMULTANEOUS HEATING AND COOLING OPERATION; TYPICAL OF HITACHI COB08M264B2ZS OR EQUAL; 208/1160
- MD-1** MOTORIZED FRESH AIR DAMPER TYPICAL OF RESIDEO (HONEYWELL) MODEL ARD OR ACCEPTABLE EQUAL; DAMPER SIZE TO MATCH SIZE OF DUCTWORK WHERE DAMPER IS INSTALLED; 24V POWER; FIELD-CONVERT TO POWER-OPEN/SPRING-CLOSE FOLLOWING MANUFACTURER'S INSTRUCTIONS; INTERLOCK ALL DAMPERS WITH ENERGY RECOVERY VENTILATOR SO THAT DAMPERS TO POWER OPEN WHENEVER THE ERV IS RUNNING; PROVIDE ALL HARDWARE AND WIRING NECESSARY TO INTERLOCK

KEY PLAN:

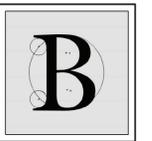
'CORNWALL PUBLIC LIBRARY'



PROJECT:
 CORNWALL PUBLIC LIBRARY
 HVAC SYSTEM REPLACEMENT PROJECT
 395 HUDSON STREET
 CORNWALL, NEW YORK 12518
 SED #4-43-01-06-6-009-006

SUB-CONSULTANT:

ENGINEER:



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NOT VALID FOR CONSTRUCTION UNLESS SIGNED AND SEALED BY ENGINEER

MATTHEW G. BLAKE, P.E., LEED AP
 NY - 89039 NJ - GE050037 PA - PE079303
 MA - 53197 CT - 32283 FL - 85928

MECHANICAL LEGENDS & NOTES

DATE	DRN	CHK	DESCRIPTION
01.26.2023	BJK	BJK	CONSTRUCTION DWGS

REV.	DATE	DRN	CHK	DESCRIPTION

PROJECT NO.	SHEET NO.
2150	M.101

UNAUTHORIZED ALTERATION OR ADDITION TO THIS PLAN IS A VIOLATION OF SECTION 7209, SUBDIVISION 2, OF THE NEW YORK STATE EDUCATION LAW.

AIR-COOLED HEAT PUMP SCHEDULE

EQUIPMENT TAG	MANUFACTURER (OR ACCEPT. EQUAL)	MODEL	INDOOR UNITS SERVED	COMPRESSOR TYPE	NOM. COOL CAPACITY (MBH)	NOM. HEAT CAPACITY (MBH)	TOTAL COOL CAPACITY (MBH) @65°F AMB.	TOTAL HEAT CAPACITY (MBH) @-10°F AMB.	OUTDOOR OPERATING TEMP. RANGE (°F)		AHRI EFFICIENCY RATINGS				REFRIGERANT	SOUND PRESSURE LEVEL COOLING/HEATING (dBA)	ELECTRICAL POWER REQUIREMENTS					WEIGHT (LB)	NOTES
									COOLING	HEATING	EER	IEER	COP47F	COP17F			VOLT.	PHASE	HZ.	MCA	MOCP		
HP-1	HITACHI	HVAHR348B32S	SEE INDOOR UNIT SCHEDULE	INVERTER SCROLL HERMETIC	384,000	432,000	340.6	216.9	23 TO 122	-13 TO 59	9.6	19.6	3.37	2.20	R410A	69	208	3	60	58 & 46 x2	70 & 60 x2	776 & 774 x2	PROVIDE W/ REQUIRED PIPING ACCESSORIES; INSTALL PER MANUFACTURER REQUIREMENTS

INDOOR MINI-SPLIT UNIT SCHEDULE

EQUIPMENT TAG	MANUFACTURER (OR ACCEPT. EQUAL)	MODEL	MINI-SPLIT UNIT TYPE	AREA OF BUILDING SERVED	AIRFLOW (CFM)	COOLING			HEATING			PAIRED OUTDOOR UNIT	EXTERNAL STATIC PRESSURE (IN. W.C.)	ELECTRICAL POWER REQUIREMENTS				WEIGHT (LB)	NOTES
						CAPACITY (MBH)	EDB (°F)	EWB (°F)	CAPACITY (MBH)	EDB (°F)	EWB (°F)			VOLT.	PHASE	HZ.	W		
FCU-1	HITACHI	HIDM008B23S	DUCTED MEDIUM STATIC	DIRECTOR'S OFFICE	250	7.3	80.0	67.0	4.6	70.0	60.0	HP-1	0.50	208	1	60	157	57	SEE VRF SYSTEM NOTES
FCU-2	HITACHI	HIDM012B23S	DUCTED MEDIUM STATIC	FILE ROOM	450	11.0	80.0	67.0	7.0	70.0	60.0		0.50	208	1	60	157	60	SEE VRF SYSTEM NOTES
FCU-3	HITACHI	HIDM012B23S	DUCTED MEDIUM STATIC	STAFF LOUNGE	280	11.0	80.0	67.0	7.0	70.0	60.0		0.50	208	1	60	157	60	SEE VRF SYSTEM NOTES
FCU-4	HITACHI	HICM008B23S	DUCTED MEDIUM STATIC	QUIET STUDY ROOM	250	7.3	80.0	67.0	4.6	70.0	60.0		0.50	208	1	60	157	57	SEE VRF SYSTEM NOTES
FCU-5	HITACHI	HIDM018B23S	DUCTED MEDIUM STATIC	STAFF WORK ROOM	600	16.4	80.0	67.0	10.5	70.0	60.0		0.50	208	1	60	190	79	SEE VRF SYSTEM NOTES
FCU-6	HITACHI	HIDM012B23S	DUCTED MEDIUM STATIC	FRIENDS ROOM	360	11.0	80.0	67.0	7.0	70.0	60.0		0.50	208	1	60	157	60	SEE VRF SYSTEM NOTES
FCU-7	HITACHI	HIDH072B21S	DUCTED HIGH STATIC	MULTI PURPOSE ROOM/ARTS AND CRAFTS	1,925	65.7	80.0	67.0	41.9	70.0	60.0		0.50	208	1	60	840	258	SEE VRF SYSTEM NOTES
FCU-8	HITACHI	HIDM027B23S	DUCTED MEDIUM STATIC	VESTIBULE/HALL	760	24.7	80.0	67.0	15.7	70.0	60.0		0.50	208	1	60	190	79	SEE VRF SYSTEM NOTES
FCU-9	HITACHI	HIDH036B22S	DUCTED HIGH STATIC	CHILDREN ZONE 1	1,200	32.9	80.0	67.0	20.9	70.0	60.0		0.50	208	1	60	259	106	SEE VRF SYSTEM NOTES
FCU-10	HITACHI	HIDH048B22S	DUCTED HIGH STATIC	CENTRAL ZONE 1	1,250	43.8	80.0	67.0	27.9	70.0	60.0		0.50	208	1	60	259	106	SEE VRF SYSTEM NOTES
FCU-11	HITACHI	HIDH036B22S	DUCTED HIGH STATIC	CENTRAL ZONE 2	800	32.9	80.0	67.0	20.9	70.0	60.0		0.50	208	1	60	259	106	SEE VRF SYSTEM NOTES
FCU-12	HITACHI	HIDH036B22S	DUCTED HIGH STATIC	ADULT ZONE 1	1,000	32.9	80.0	67.0	20.9	70.0	60.0		0.50	208	1	60	259	106	SEE VRF SYSTEM NOTES
FCU-13	HITACHI	HIDH048B22S	DUCTED HIGH STATIC	ADULT ZONE 2	1,260	43.8	80.0	67.0	27.9	70.0	60.0		0.50	208	1	60	259	106	SEE VRF SYSTEM NOTES

VRF System Notes:

- WIRED 7 DAY PROGRAMMABLE THERMOSTAT SHALL BE FURNISHED BY MECHANICAL CONTRACTOR FOR EACH INDOOR UNIT. THERMOSTATS SHIP LOOSE FOR FIELD INSTALLATION AND WIRING BY THE MECHANICAL CONTRACTOR.
- MECHANICAL CONTRACTOR TO PROVIDE CENTRAL CONTROLLER FOR LOCAL SET POINT CONTROL AND SYSTEM VIEWING. CONTROLLER TO BE INSTALLED AND WIRING BY MECHANICAL CONTRACTOR. 24V POWER BY ELECTRICAL CONTRACTOR.
- DISCONNECT SWITCH FOR CONDENSING UNITS AND INDOOR UNITS SHALL BE FURNISHED AND INSTALLED BY THE ELECTRICAL CONTRACTOR.
- EXTERNAL SUPPORTS FOR INDOOR AND CONDENSING UNITS SHALL BE FURNISHED AND INSTALLED BY THE MECHANICAL CONTRACTOR.
- FILTER RACK AND 2" PLEATED MERV-13 FILTERS FOR DUCTED UNITS SHALL FURNISHED AND INSTALLED BY THE MECHANICAL CONTRACTOR. FILTER RACK SHALL BE GALVANIZED STEEL, FULLY INSULATED & FACTORY ASSEMBLED. TYPICAL OF FLT-H SERIES OR EQUAL
- CONDENSATE PUMPS SHIP FOR FIELD INSTALLATION BY MECHANICAL CONTRACTOR FOR WALL MOUNTED UNITS. DUCTED UNITS FURNISHED WITH FACTORY MOUNTED CONDENSATE PUMP. MECHANICAL CONTRACTOR TO PROVIDE CONDENSATE PIPING FROM ALL UNITS TO SANITARY DRAIN. FIELD VERIFY EXACT ROUTING AND TERMINATION POINT IN BUILDING.
- PROVIDE REFRIGERANT ISOLATION VALVES ON LIQUID AND GAS LINES AT EVERY FAN COIL UNIT.

ENERGY RECOVERY VENTILATOR SCHEDULE

EQUIPMENT TAG	MANUFACTURER (OR ACCEPT. EQUAL)	MODEL	FRESH AIR FLOW RATE (CFM)	EXHAUST AIR FLOW RATE (CFM)	ROOM EXH. AIR (°F)				OUTSIDE AIR (°F)				SUPPLY AIR (°F)				RECOVERY EFFECTIVENESS				ELECTRICAL DATA					WEIGHT (LB)	NOTES		
					WINTER		SUMMER		WINTER		SUMMER		WINTER		SUMMER		SENSIBLE		TOTAL		MOTOR		VOLT.	PHASE	HZ.			FLA	MOCP
					DB	WB	DB	WB	DB	WB	DB	WB	DB	WB	DB	WB	DB	WB	WINTER	SUMMER	WINTER	SUMMER							
ERV-1	RENEWAIRE	HE-4XJINV-S35VV--DANT--WL	2500	2500	70.0	51.4	75.0	62.5	4.6	2.6	90.2	72.9	51.8	40.0	79.2	67.6	72.1%	72.1%	70.2%	53.6%	2	2 HP	208	3	60	14.8	20	-	PROVIDE W/ MERV-13 FILTERS, ECM MOTORS, DISCONNECT SWITCH, BACKDRAFT DAMPERS, TIMER FOR OCCUPIED OPERATION & ELEC. DUCT HEATER

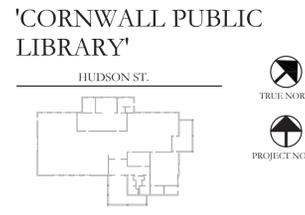
AIR GRILLE/DIFFUSER SCHEDULE

EQUIPMENT TAG	MANUFACTURER (OR ACCEPT. EQUAL)	MODEL	AIR DEVICE TYPE	AIRFLOW (CFM)		MAX AIR PRESS. DROP (IN. W.C.)	MOUNTING	PANEL/FRAME SIZE (IN.)	NECK SIZE (IN.)	MAX NC	DAMPER	FINISH	NOTES
				MIN.	MAX.								
D-1	KRUEGER	PLQ-6-F23-24x24-PR10-IB-44	SQUARE PLAQUE FACE DIFFUSER	50	175	0.10	LAY-IN	24"x24"	6"Ø	20	OBD	WHITE	-
D-2	KRUEGER	PLQ-8-F23-24x24-PR10-IB-44	SQUARE PLAQUE FACE DIFFUSER	176	300	0.10	LAY-IN	24"x24"	8"Ø	20	OBD	WHITE	-
D-3	KRUEGER	PLQ-10-F23-24x24-PR10-IB-44	SQUARE PLAQUE FACE DIFFUSER	301	435	0.10	LAY-IN	24"x24"	10"Ø	20	OBD	WHITE	-
R-1/EG-1	KRUEGER	S80P-20x20-F23-24x24-00-00-00-44	PERFORATED FACE RETURN GRILLE	0	1,600	0.10	LAY-IN	24"x24"	20"x20"	25	-	WHITE	FURNISH & INSTALL FULL-SIZE SHEET METAL PLENUM BOX ON REAR OF GRILLE. PAINT INSIDE FLAT BLACK

VENTILATION SCHEDULE

SYSTEM	SPACE SERVED	SPACE TYPE	SPACE AREA (SQ. FT.)	OCCUPANTS PER 1000 SQ. FT.	# OF OCCUPANTS	CFM PER PERSON	CFM PER SQ. FT.	CALCULATED VENTILATION RATE (CFM)	ZONE AIR DISTRIBUTION EFFECTIVENESS	ADJUSTED VENTILATION RATE (CFM)	PROVIDED VENTILATION RATE (CFM)
FCU-1	DIRECTOR'S OFFICE	OFFICE	180	5	1	5	0.06	16	0.8	20	20
FCU-2	FILE ROOM	OFFICE	300	5	2	5	0.06	28	0.8	35	35
FCU-3	STAFF LOUNGE	BREAK ROOM	181	50	1	5	0.12	16	0.8	20	20
FCU-4	QUIET STUDY ROOM	CONFERENCE	206	50	11	5	0.06	67	0.8	84	85
FCU-5	STAFF WORK ROOM	OFFICE	644	5	4	5	0.06	59	0.8	73	75
FCU-6	FRIENDS ROOM	LIBRARY	301	50	4	5	0.06	56	0.8	70	70
FCU-7	MULTI PURPOSE ROOM	MULTI USE ASSEMBLY	881	100	89	7.5	0.06	720	0.8	900	900
	ARTS AND CRAFTS	STORAGE	110	0	0	0	0.12	13	0.8	17	20
FCU-8	VESTIBULE/HALL	CORRIDOR	462	0	0	0	0.06	28	0.8	35	35
FCU-9	CHILDREN ZONE 1	LIBRARY	898	10	9	5	0.12	153	0.8	191	200
FCU-10	CENTRAL ZONE 1	LIBRARY	1,277	10	13	5	0.12	218	0.8	273	275
FCU-11	CENTRAL ZONE 2	LIBRARY	1,027	10	11	5	0.12	178	0.8	223	225
FCU-12	ADULT ZONE 1	LIBRARY	840	10	9	5	0.12	146	0.8	182	185
FCU-13	ADULT ZONE 2	LIBRARY	1,637	10	17	5	0.12	281	0.8	352	355

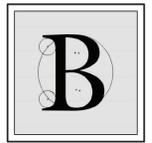
KEY PLAN:



PROJECT:
CORNWALL PUBLIC LIBRARY HVAC SYSTEM REPLACEMENT PROJECT
 395 HUDSON STREET
 CORNWALL, NEW YORK 12518
 SED #44-03-01-06-6-009-006

SUB-CONSULTANT:

ENGINEER:



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MATTHEW G. BLAKE, P.E., LEED AP
 NY - 89039 NJ - GE050037 PA - PE079303
 MA - 53197 CT - 32283 FL - 85928

MECHANICAL SCHEDULES

DATE	DRN	CHK	DESCRIPTION
01.26.2023	BJK	BJK	CONSTRUCTION DWGS

REV.	DATE	DRN	CHK	DESCRIPTION

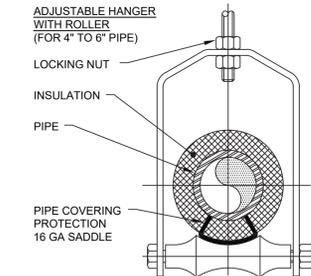
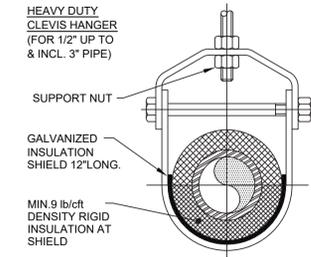
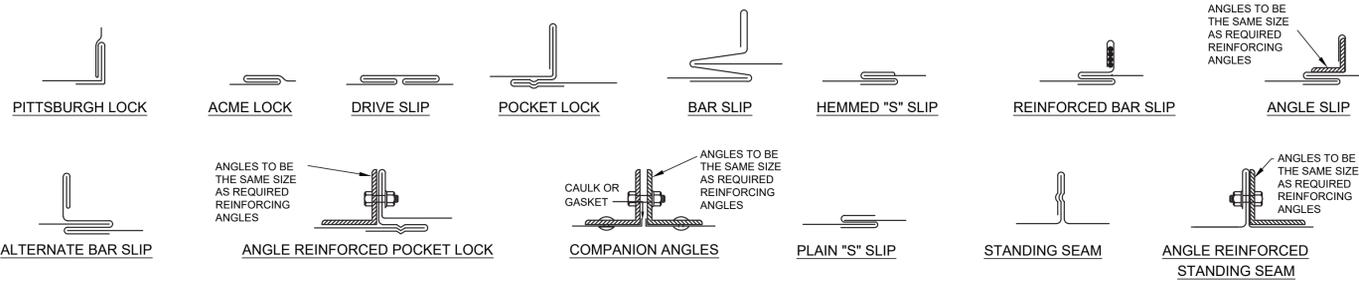
PROJECT NO. 2150	SHEET NO. M.102
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THICKNESS & REINFORCING SCHEDULE - * LOW PRESSURE DUCTWORK

* NOTE: LOW PRESSURE DUCTWORK SHALL BE DUCTWORK IN WHICH THE PRESSURE DOES NOT EXCEED 2" WATER GAUGE.

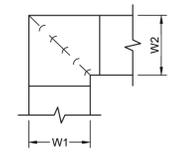
GREATEST DUCT DIMENSION	STEEL DUCTS U.S. STANDARD GAUGE	ALUMINUM DUCTS B & S GAUGE	LONGITUDINAL SEAM	TRANSVERSE JOINT SMALLEST DIMENSION	TRANSVERSE JOINT GREATEST DIMENSION	REINFORCING (ALL DUCTS 18" THRU 54" SHALL BE CROSSBROKEN)
12" OR LESS	26	24(0.020")	PITTSBURGH OR ACME LOCK	DRIVE SLIP OR POCKET LOCK OR BAR SLIP	PLAIN "S" SLIP OR POCKET LOCK OR BAR SLIP	NONE REQUIRED
13" THRU 18"	24	22(0.025")	PITTSBURGH OR ACME LOCK	DRIVE SLIP OR POCKET LOCK OR BAR SLIP	PLAIN "S" SLIP OR POCKET LOCK OR BAR SLIP	NONE REQUIRED
19" THRU 30"	24	22(0.025")	PITTSBURGH OR ACME LOCK	HEMMED "S" SLIP OR BAR SLIP OR DRIVE SLIP OR 1" POCKET LOCK	HEMMED "S" SLIP OR BAR SLIP OR 1" POCKET LOCK	IF TRANSVERSE JOINTS ARE LOCATED 4'-0" OR LESS ON CENTER NO REINFORCING IF ON 8'-0" CENTERS REINFORCE WITH 1"x1"x1/8" ANGLES AT 4 FT. O.C. FASTENED ON 8" CENTERS
31" THRU 42"	22	20(0.032")	PITTSBURGH OR ACME LOCK	DRIVE SLIP 18" OR LESS BAR SLIP REINFORCED BAR SLIP OR POCKET LOCK	BAR SLIP OR REINFORCED BAR SLIP OR POCKET LOCK	IF TRANSVERSE JOINTS ARE LOCATED 4'-0" OR LESS ON CENTER NO REINFORCING IF ON 8'-0" CENTERS REINFORCE WITH 1"x1"x1/8" ANGLES AT 4 FT. O.C. FASTENED ON 8" CENTERS
43" THRU 54"	22	20(0.032")	PITTSBURGH LOCK	1 1/4" BAR SLIP, OR REINFORCED BAR SLIP, OR 1 1/2" POCKET LOCK	1 1/4" BAR SLIP, OR REINFORCED BAR SLIP, OR 1 1/2" POCKET LOCK	IF TRANSVERSE JOINTS ARE LOCATED 4'-0" OR LESS ON CENTER NO REINFORCING IF ON 8'-0" CENTERS REINFORCE WITH 1"x1"x1/8" ANGLES AT 4 FT. O.C. FASTENED ON 8" CENTERS
55" THRU 60"	20	18(0.040")	PITTSBURGH LOCK	1 1/4" BAR SLIP, OR REINFORCED BAR SLIP, OR 1 1/2" POCKET LOCK	1 1/4" BAR SLIP, OR REINFORCED BAR SLIP, OR 1 1/2" POCKET LOCK	IF TRANSVERSE JOINTS ARE LOCATED 4'-0" OR LESS ON CENTER NO REINFORCING IF ON 8'-0" CENTERS REINFORCE WITH 1"x1"x1/8" ANGLES AT 4 FT. O.C. FASTENED ON 8" CENTERS
61" THRU 84"	20	18(0.040")	PITTSBURGH LOCK	REINFORCED BAR SLIP, OR ANGLE SLIP, ALTERNATE BAR SLIP, OR ANGLE REINFORCED POCKET LOCK	REINFORCED BAR SLIP, OR ANGLE SLIP, ALTERNATE BAR SLIP, OR ANGLE REINFORCED POCKET LOCK	REINFORCE ALL SIDES OVER 60" WITH 1 1/2"x1 1/2"x1/8" ANGLES ON 2'-0" CENTERS. SIDES UNDER 60" NEED NO REINFORCING IF JOINTS ARE ON 4'-0" CENTERS. IF JOINTS ARE ON 8'-0" CENTERS REINFORCE WITH 1 1/2"x1 1/2"x1/8" ANGLES ON 4'-0" CENTERS.
85" THRU 96"	18	16(0.051") (LONGITUDINAL SEAM MAY BE STANDING SEAM)	PITTSBURGH LOCK	1 1/2" COMPANION ANGLES, OR ANGLE REINFORCED POCKET LOCK, OR 1 1/2" ANGLE SLIP OR REINFORCED BAR SLIP	1 1/2" COMPANION ANGLES, OR ANGLE REINFORCED POCKET LOCK, OR 1 1/2" ANGLE SLIP OR REINFORCED BAR SLIP	REINFORCE ALL SIDES OVER 84" WITH 1 1/2"x1 1/2"x3/16" ANGLES ON 2'-0" CENTERS. SIDES 61" THRU 84" REINFORCE WITH 1 1/2"x1 1/2"x1/8" ANGLES ON 2'-0" CENTERS. SIDES 60" OR LESS NEED NO REINFORCING IF JOINTS ARE ON 4'-0" CENTERS. IF JOINTS ARE ON 8'-0" CENTERS REINFORCE WITH 1 1/2"x1 1/2"x1/8" ANGLES ON 4'-0" CENTERS.
OVER 96"	18	16(0.051") (LONGITUDINAL SEAM MAY BE STANDING SEAM)	PITTSBURGH LOCK	2" COMPANION ANGLE, OR 2"x2"x1/4" ANGLE SLIP, OR 2"x2"x1/4" ANGLE REINFORCED POCKET LOCK OR REINFORCED BAR SLIP	2" COMPANION ANGLE, OR 2"x2"x1/4" ANGLE SLIP, OR 2"x2"x1/4" ANGLE REINFORCED POCKET LOCK OR REINFORCED BAR SLIP	REINFORCE ALL SIDES OVER 96" WITH 2"x2"x1/4" ANGLES ON 2'-0" CENTERS. REINFORCE ALL SIDES 85" THRU 96" WITH 1 1/2"x1 1/2"x3/16" ANGLES ON 2'-0" CENTERS. REINFORCE ALL SIDES 61" THRU 84" WITH 1 1/2"x1 1/2"x1/8" ANGLES ON 2'-0" CENTERS. REINFORCE ALL SIDES UNDER 60" WITH 1 1/2"x1 1/2"x1/8" ANGLES IF JOINTS ARE 8'-0" ON CENTER. NO REINFORCING IF JOINTS ARE 4'-0" ON CENTER.



NOTES:
 1. PIPE 8" AND LARGER SHALL HAVE ROLLER SUPPORTED WITH DUAL RODS.
 2. FOR CHW SERVICE OVER 3" REPLACE SADDLE WITH 12" LONG 14 GA SHIELD WITH RIGID INSULATION BETWEEN PIPE AND SHIELD.

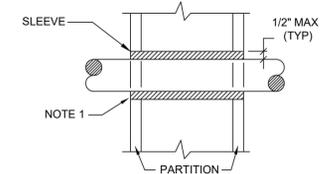
PIPE Ø (IN.)	MAX. SPACING BETWEEN HANGERS (FT.)			MIN. ROD SIZE (IN.)
	STEEL PIPE	COPPER PIPE	CPVC	
1/2 THRU 1	7	5	5	3/8
1-1/2 THRU 2	9	8	6	3/8
2-1/2	11	9	7.5	1/2
3	12	10	7.5	1/2
4	14	12	8.5	5/8
6	17	14	9	3/4
8	19	16	10	7/8
10	22	18	10.5	7/8

1 Pipe Hanger Support
M.103 N.T.S.



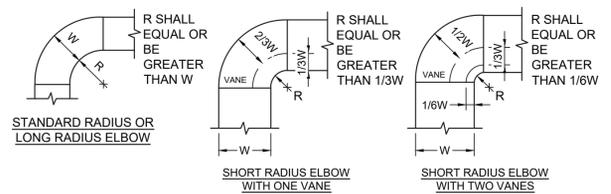
NOTE:
 1. ALL VANED ELBOWS SHALL BE CONSTRUCTED AND INSTALLED AS DETAILED BY SMACNA.
 2. WHEN W1 IS NOT EQUAL TO W2, VANE SHALL BE SINGLE VANE TYPE REGARDLESS OF W DIMENSION.
 3. ALL SINGLE VANES SHALL HAVE A 2" RADIUS, 1-1/2" MAXIMUM SPACE BETWEEN VANES AND A 3/4" TRAILING EDGE.
 4. WHEN W EQUALS W2 AND W1 IS GREATER THAN 20" VANES SHALL BE DOUBLE VANE TYPE.

2 Ductwork Squared Elbow Detail
M.103 N.T.S.



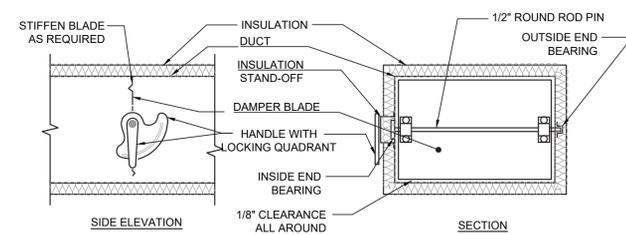
NOTES:
 1. AT FIRE RATED PARTITIONS, ADD ADDITIONAL LAYER OF FIRE SAFING INSULATION AROUND PENETRATION SO AS TO FILL CAVITY.
 2. DUCT AND PIPE PENETRATIONS THRU CORRIDOR WALLS ABOVE THE CEILING ARE TO BE FIRE STOPPED AROUND THE PENETRATION.

3 Pipe Penetrations Detail
M.103 N.T.S.



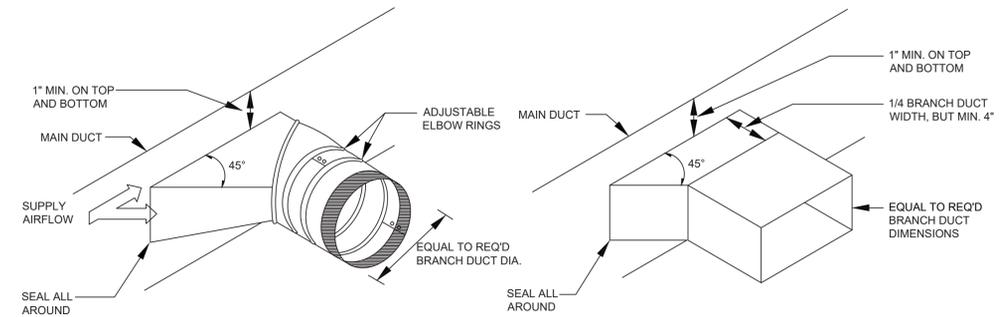
NOTE:
 1. THE INTERIOR SURFACE OF ALL RADIUS ELBOWS SHALL BE MADE ROUND.
 2. ALL STANDARD RADIUS ELBOWS CAN BE SUBSTITUTED WITH SHORT RADIUS ELBOWS. ALL SHORT RADIUS ELBOWS SHALL HAVE VANES. VANES SHALL BE CONSTRUCTED, SUPPORTED AND FASTENED AS RECOMMENDED BY SMACNA.

5 Ductwork Radius Elbow Detail
M.103 N.T.S.

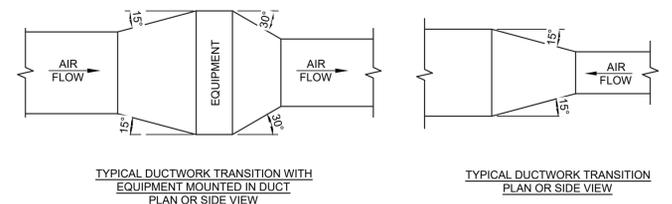


NOTE:
 1. DELETE INSULATION STAND-OFF ON DUCTWORK WITHOUT EXTERIOR INSULATION.
 2. DETAIL SHOWS SINGLE-BLADE DAMPER. DAMPER INSTALLATION SHALL BE SIMILAR FOR MULTI-BLADE DAMPERS & ROUND DAMPERS.

6 Ductwork Volume Damper Detail
M.103 N.T.S.



4 Typical Branch Take-Off Fitting Detail
M.103 N.T.S.



NOTE: UNLESS OTHERWISE INDICATED ON PLANS, MAXIMUM ANGLES SHOWN SHALL APPLY.

7 Ductwork Transition Detail
M.103 N.T.S.

KEY PLAN:
 'CORNWALL PUBLIC LIBRARY'
 HUDSON ST.

 TRUE NORTH
 PROJECT NORTH

PROJECT:
 CORNWALL PUBLIC LIBRARY
 HVAC SYSTEM REPLACEMENT PROJECT
 395 HUDSON STREET
 CORNWALL, NEW YORK 12518
 SED #44-03-01-06-6-009-006

SUB-CONSULTANT:
 ENGINEER:

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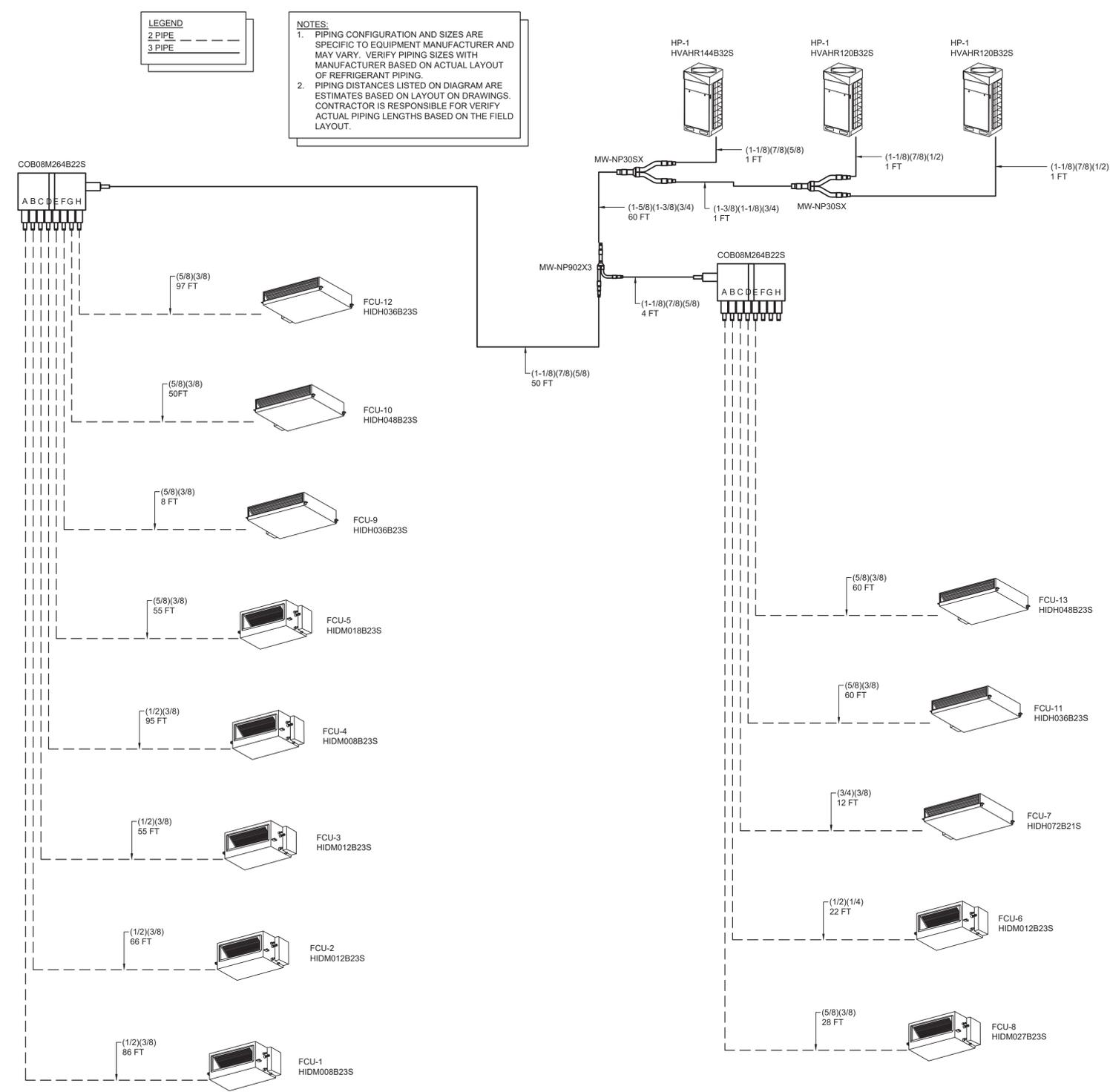
MECHANICAL SCHEDULE & DETAILS

DATE	DRN	CHK	DESCRIPTION
01.26.2023	BJK	BJK	CONSTRUCTION DWGS

REV.	DATE	DRN	CHK	DESCRIPTION

PROJECT NO.	SHEET NO.
2150	M.103

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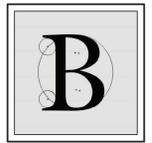
1 VRF System Piping Diagram
 M.104 N.T.S.

KEY PLAN:
 'CORNWALL PUBLIC LIBRARY'
 HUDSON ST.
 TRUE NORTH
 PROJECT NORTH

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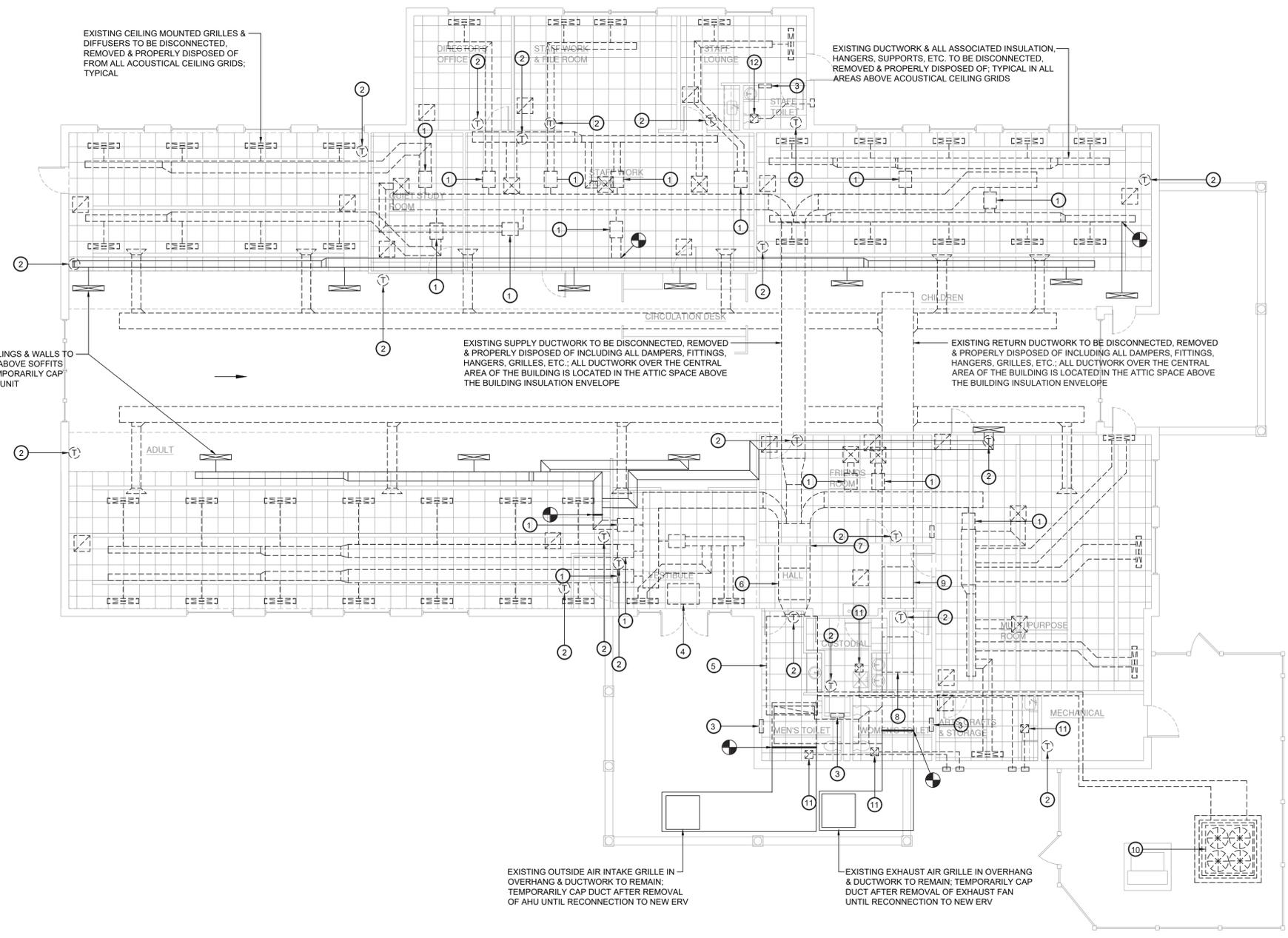
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VRF SYSTEM PIPING DIAGRAM

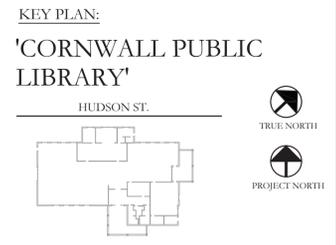
DATE	DRN	CHK	DESCRIPTION
01.26.2023	BJK	BJK	CONSTRUCTION DWGS

REV.	DATE	DRN	CHK	DESCRIPTION

PROJECT NO. 2150	SHEET NO. M.104
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- Key Notes:**
- 1 EXISTING VAV BOX TO BE DISCONNECTED, REMOVED & PROPERLY DISPOSED OF INCLUDING ALL ASSOCIATED DUCTWORK, PIPING, VALVES, HANGERS, CONTROLS, ETC.
 - 2 EXISTING THERMOSTAT & ASSOCIATED CONTROL WIRING TO BE DISCONNECTED, REMOVED & PROPERLY DISPOSED OF INCLUDING ALL PIPING, CONTROLS, ETC.
 - 3 EXISTING WALL MOUNTED HOT WATER CABINET HEATER TO BE DISCONNECTED, REMOVED & PROPERLY DISPOSED OF INCLUDING ALL PIPING, CONTROLS, ETC.
 - 4 EXISTING WALL MOUNTED HOT WATER CABINET HEATER TO BE DISCONNECTED, REMOVED & PROPERLY DISPOSED OF INCLUDING ALL PIPING, CONTROLS, ETC.
 - 5 EXISTING AIR HANDLING UNIT TO BE DISCONNECTED, REMOVED & PROPERLY DISPOSED OF INCLUDING ALL ASSOCIATED DUCTWORK, PIPING, VALVES, HANGERS, CONTROLS, ETC.
 - 6 EXISTING SUPPLY AIR DUCT SILENCER TO BE DISCONNECTED, REMOVED & PROPERLY DISPOSED OF INCLUDING ANY ASSOCIATED INSULATION, HANGERS, SUPPORTS, ETC.
 - 7 EXISTING GAS FIRED HUMIDIFIER TO BE DISCONNECTED, REMOVED & PROPERLY DISPOSED OF INCLUDING ANY ASSOCIATED PIPING, VENTING, DUCTWORK, HANGERS, SUPPORTS, ETC.
 - 8 EXISTING EXHAUST FAN TO BE DISCONNECTED, REMOVED & PROPERLY DISPOSED OF INCLUDING ALL ASSOCIATED DUCTWORK, HANGERS, CONTROLS, ETC.
 - 9 EXISTING RETURN AIR DUCT SILENCER TO BE DISCONNECTED, REMOVED & PROPERLY DISPOSED OF INCLUDING ANY ASSOCIATED INSULATION, HANGERS, SUPPORTS, ETC.
 - 10 EXISTING CONDENSING UNIT TO BE DISCONNECTED, REMOVED & PROPERLY DISPOSED OF INCLUDING ALL ASSOCIATED PIPING, CONTROLS, ETC. RECOVER & DISPOSE OF REFRIGERANT PER EPA GUIDELINES
 - 11 EXISTING EXHAUST FAN TO BE DISCONNECTED, REMOVED & PROPERLY DISPOSED OF INCLUDING ANY ASSOCIATED DUCTWORK, HANGERS, SUPPORTS, ETC.
 - 12 EXISTING EXHAUST FAN TO BE REMAIN; REMOVE AND STORE OR SECURE FAN AS NECESSARY TO REPLACE CEILING; REINSTALL AS NEEDED IN NEW CEILING SYSTEM



PROJECT:
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 HVAC SYSTEM REPLACEMENT PROJECT
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MECHANICAL DEMOLITION PLAN

DATE:	DRN:	CHK:	DESCRIPTION:
01.26.2023	BJK	BJK	CONSTRUCTION DWGS

REV.:	DATE:	DRN:	CHK:	DESCRIPTION:

PROJECT NO.	SHEET NO.
2150	MD.201

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1 Mechanical Demolition Plan
 MD.201 Scale: 1/8" = 1'-0"

Key Notes:

- ① EXISTING VAV BOX TO BE DISCONNECTED, REMOVED & PROPERLY DISPOSED OF INCLUDING ALL ASSOCIATED DUCTWORK, PIPING, VALVES, HANGERS, CONTROLS, ETC.
- ② EXISTING WALL MOUNTED HOT WATER CABINET HEATER TO BE DISCONNECTED, REMOVED & PROPERLY DISPOSED OF INCLUDING ALL PIPING, CONTROLS, ETC.
- ③ EXISTING GAS FIRED HOT WATER BOILER TO BE DISCONNECTED, REMOVED & PROPERLY DISPOSED OF INCLUDING ALL VENTS, PUMPS, PIPING, AIR SEPARATOR, EXPANSION TANK, ACCESSORIES, CONTROLS, ETC.
- ④ EXISTING CEILING MOUNTED HOT WATER CABINET HEATER TO BE DISCONNECTED, REMOVED & PROPERLY DISPOSED OF INCLUDING ALL PIPING, CONTROLS, ETC.
- ⑤ EXISTING HOT WATER UNIT HEATER TO BE DISCONNECTED, REMOVED & PROPERLY DISPOSED OF INCLUDING ALL PIPING, CONTROLS, ETC.
- ⑥ EXISTING GAS FIRED HUMIDIFIER TO BE DISCONNECTED, REMOVED & PROPERLY DISPOSED OF INCLUDING ANY ASSOCIATED VENTING, PIPING, DUCTWORK, HANGERS, SUPPORTS, ETC.

KEY PLAN:

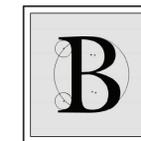
'CORNWALL PUBLIC LIBRARY'



PROJECT:
CORNWALL PUBLIC LIBRARY
HVAC SYSTEM
REPLACEMENT PROJECT
 395 HUDSON STREET
 CORNWALL, NEW YORK 12518
 SED #:44-03-01-06-6-009-006

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HYDRONIC DEMOLITION PLAN

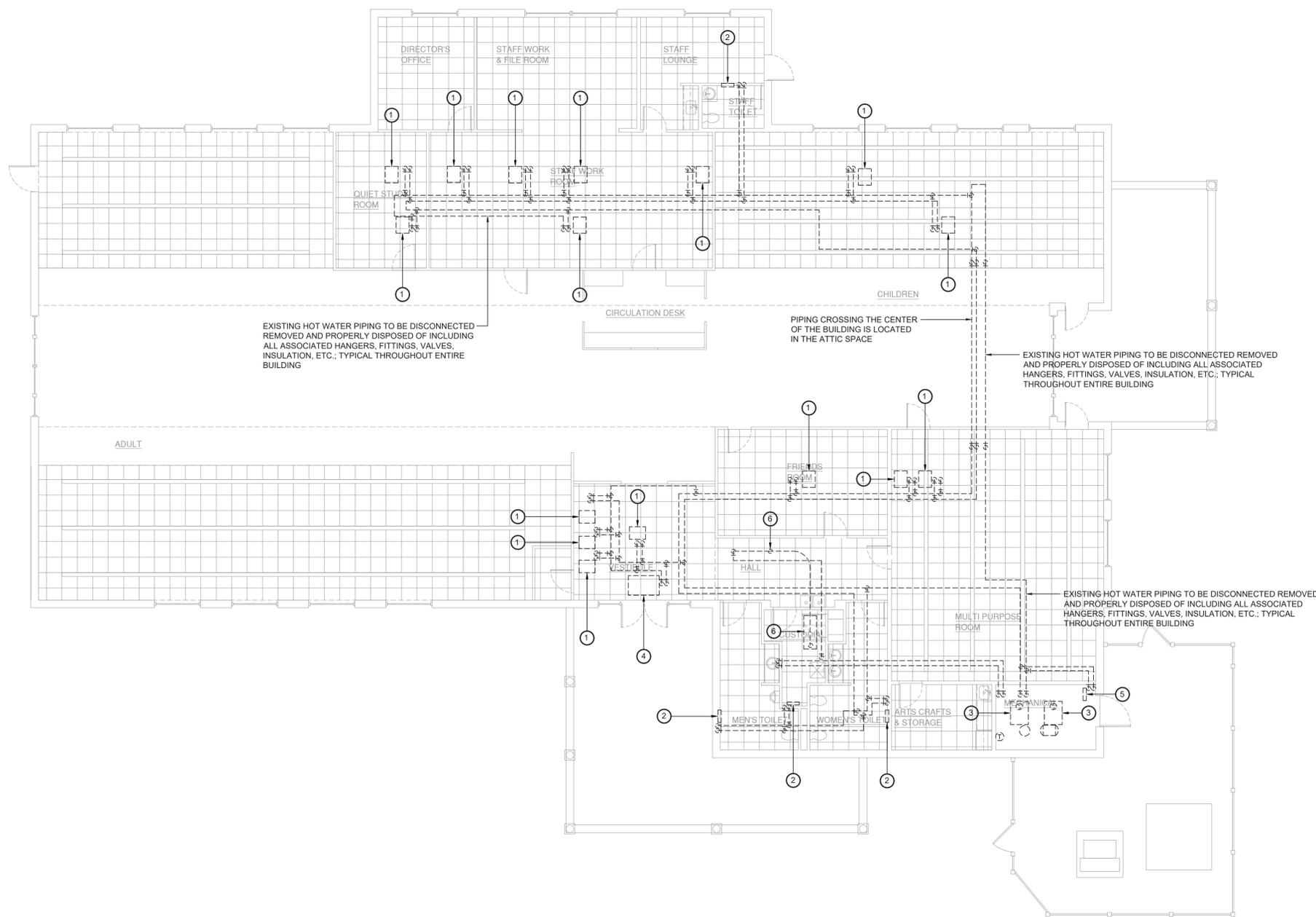
DATE	DRN	CHK	DESCRIPTION
01.26.2023	BJK	BJK	CONSTRUCTION DWGS

REV.	DATE	DRN	CHK	DESCRIPTION

PROJECT NO.	SHEET NO.
2150	MD.202

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① **Hydronic Demolition Plan**
 MD.202 Scale: 1/8" = 1'-0"

Key Notes:

- ① BALANCE OUTSIDE AIR TO 20 CFM
- ② BALANCE OUTSIDE AIR TO 35 CFM
- ③ BALANCE OUTSIDE AIR TO 20 CFM
- ④ BALANCE OUTSIDE AIR TO 85 CFM
- ⑤ BALANCE OUTSIDE AIR TO 75 CFM
- ⑥ BALANCE OUTSIDE AIR TO 70 CFM
- ⑦ BALANCE OUTSIDE AIR TO 920 CFM
- ⑧ BALANCE OUTSIDE AIR TO 35 CFM
- ⑨ BALANCE OUTSIDE AIR TO 200 CFM
- ⑩ BALANCE OUTSIDE AIR TO 275 CFM
- ⑪ BALANCE OUTSIDE AIR TO 225 CFM
- ⑫ BALANCE OUTSIDE AIR TO 185 CFM
- ⑬ BALANCE OUTSIDE AIR TO 355 CFM

KEY PLAN:

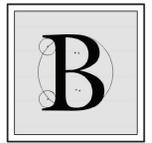
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PROJECT:
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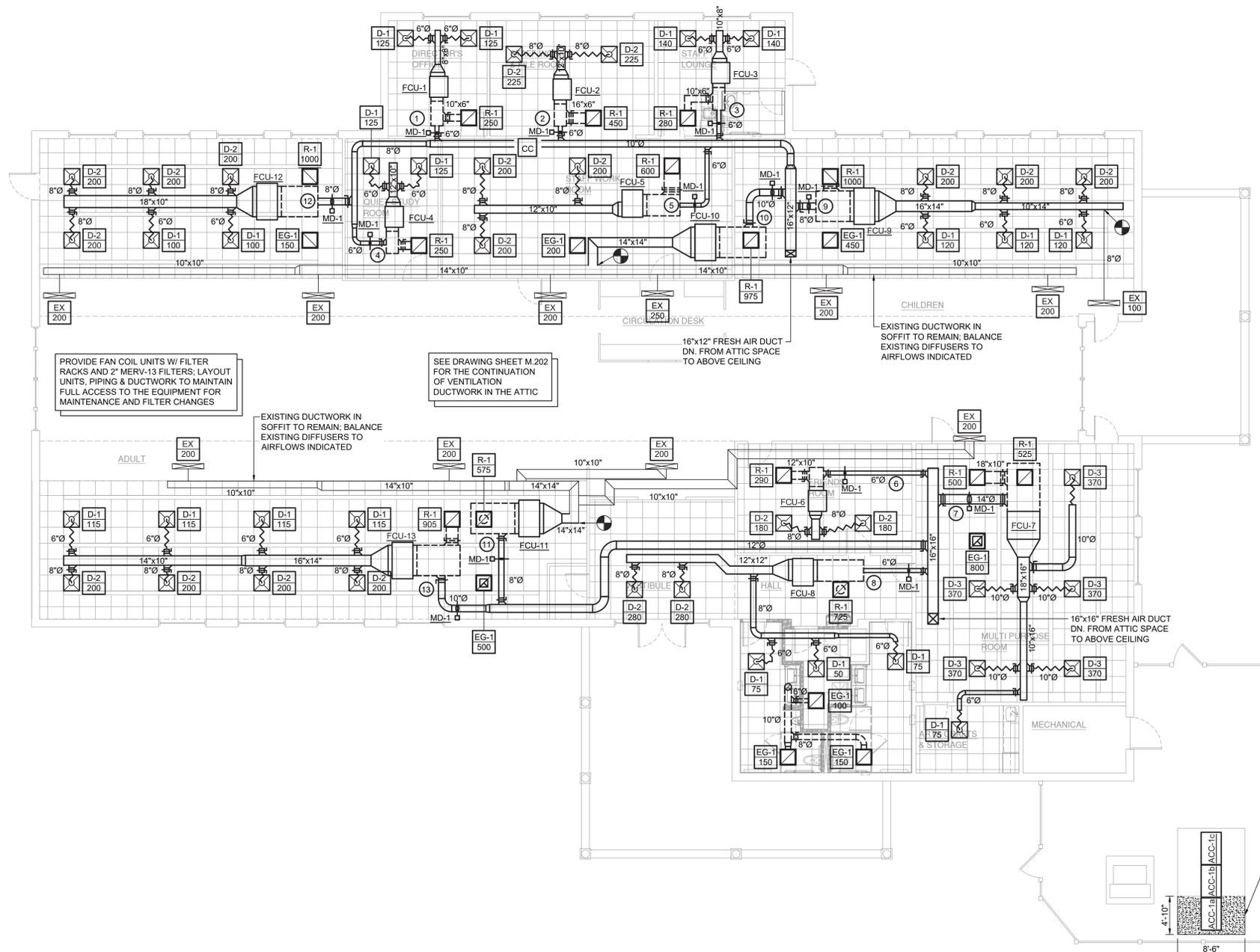
MECHANICAL DUCTWORK PLAN

DATE	DRN	CHK	DESCRIPTION
01.26.2023	BJK	BJK	CONSTRUCTION DWGS

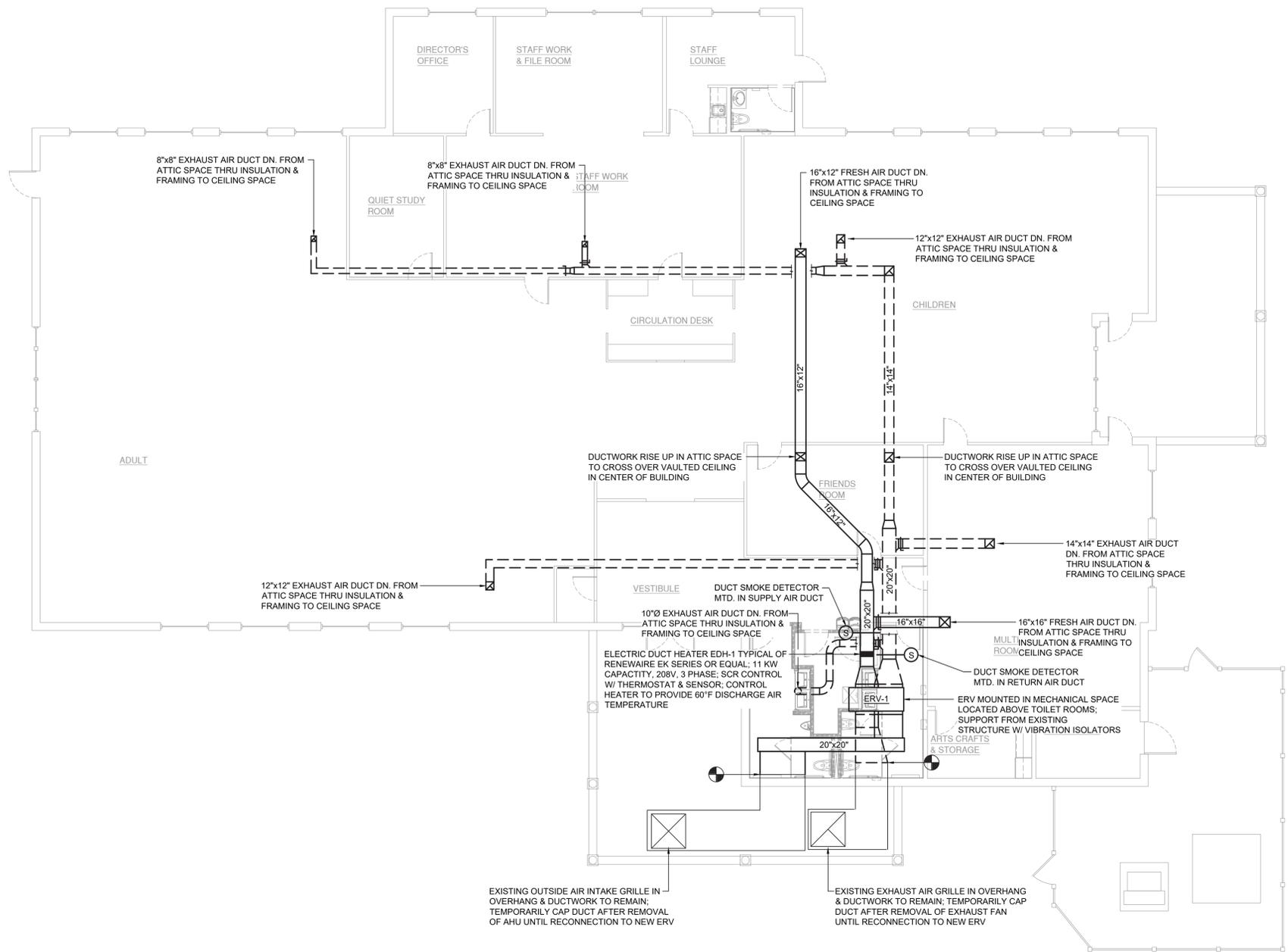
REV.	DATE	DRN	CHK	DESCRIPTION

PROJECT NO. 2150	SHEET NO. M.201
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1 Mechanical Ductwork Plan
 M.201 Scale: 1/8" = 1'-0"



1 Attic Mechanical Plan
 M.202 Scale: 1/8" = 1'-0"

KEY PLAN:
 'CORNWALL PUBLIC LIBRARY'
 HUDSON ST.

TRUE NORTH
 PROJECT NORTH

PROJECT:
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 HVAC SYSTEM REPLACEMENT PROJECT
 395 HUDSON STREET
 CORNWALL, NEW YORK 12518
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ATTIC MECHANICAL PLAN

DATE	DRN	CHK	DESCRIPTION	
01.26.2023	BJK	BJK	CONSTRUCTION DWGS	
REV.	DATE	DRN	CHK	DESCRIPTION

PROJECT NO. 2150	SHEET NO. M.202
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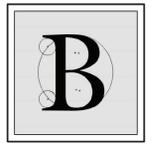
'CORNWALL PUBLIC LIBRARY'



PROJECT:
CORNWALL PUBLIC LIBRARY
HVAC SYSTEM REPLACEMENT PROJECT
395 HUDSON STREET
CORNWALL, NEW YORK 12518
SED #44-03-01-06-6-009-006

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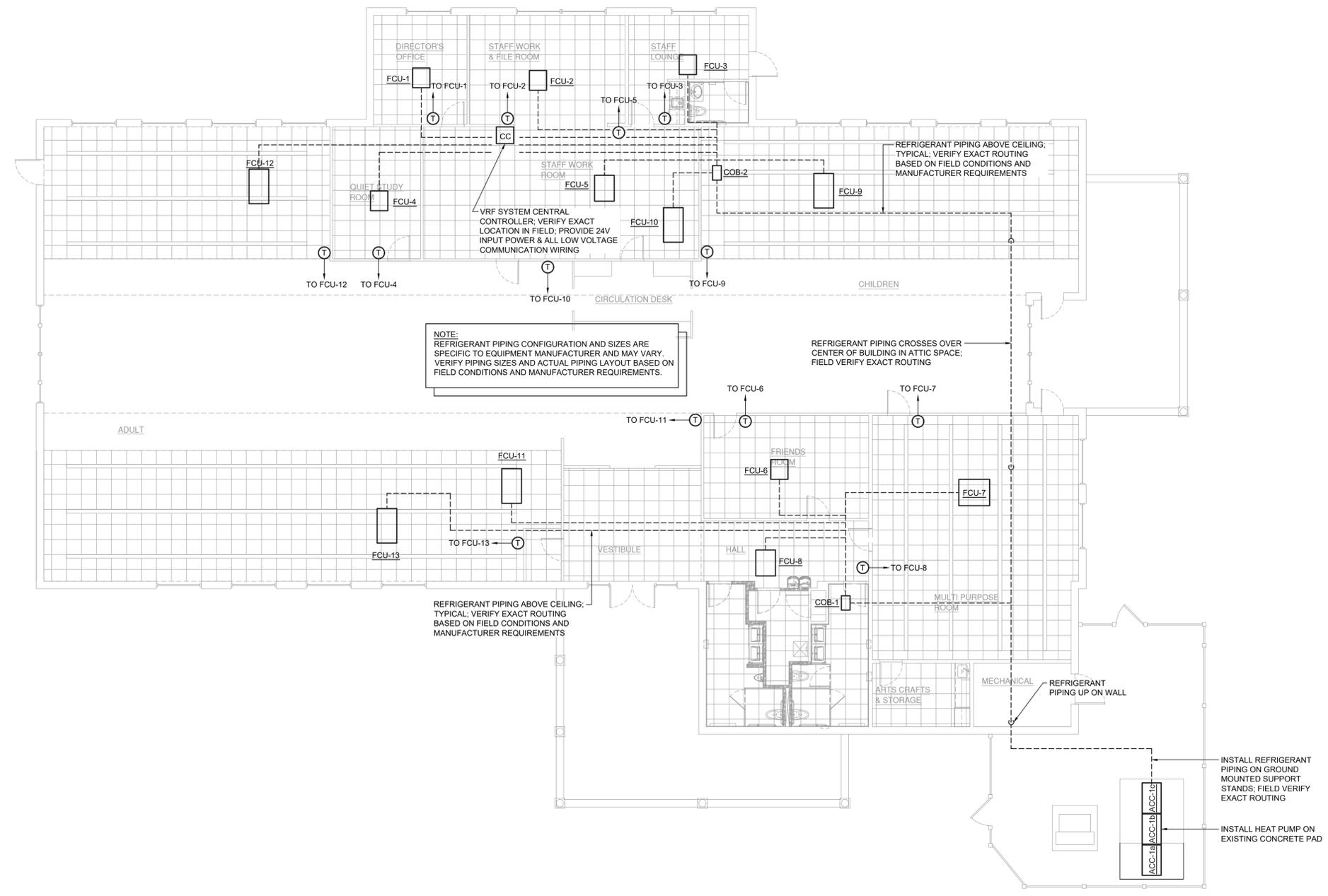
MECHANICAL PIPING PLAN

DATE	DRN	CHK	DESCRIPTION
01.26.2023	BJK	BJK	CONSTRUCTION DWGS

REV.	DATE	DRN	CHK	DESCRIPTION

PROJECT NO. 2150	SHEET NO. M.301
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1 Mechanical Piping Plan
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