·	ABBREVIATIONS	AND	LEG	FND		DRAWING INDEX
		SYMBOL	ABBR. DESCRIPTION	CINU SYMBOL ABBR	DESCRIPTION	
AC ACU	AIR CONDITIONING AIR CONDITIONING UNIT		ALIGNMENT GUIDE		DETAIL OR SECTION CALLOUT	MD.1 LEGEND, ABBREVIATIONS, GENERAL NOTES AND DRAWING INDEX
AD AFF	ACCESS DOOR ABOVE FINISHED FLOOR		ANCHOR		DETAIL OR SECTION CALLOUT SHEET WHERE SECTION OR DETAIL SHOWN	
APPROX ARCH	APPROXIMATE ARCHITECT	 9	ELBOW DOWN			MO.3 BUILDING D MECHANICAL PLAN
ASHRAE	AMERICAN SOCIETY OF HEATING, REFRIGERATION AND AIR CONDITIONING	0	ELBOW UP		DIRECTION OF CUTTING PLANE SECTION CUT LINE	M1.0 FOUNDATION MECHANICAL PLAN EAST M1.1 FOUNDATION MECHANICAL PLAN WEST
BDD BFF	BACKDRAFT DAMPER BELOW FINISHED FLOOR		FLANGE		GEORGIA GO, LIND	M2.1 LOWER LEVEL PLUMBING AND PIPING PLAN EAST
BOD BTUH	BELOW FINISHED FLOOR BRITISH THERMAL UNITS PER HOUR		FLEX CONNECTION	SD_X XXX	DIFFUSER OR GRILLE CALL OUT	M2.2 LOWER LEVEL PLUMBING AND PIPING PLAN WEST
CA	COMBUSTION AIR		TEE OUTLET UP	***	CFM AMOUNT	M2.3 MAIN LEVEL PLUMBING AND PIPING PLAN EAST
CD CFM	CEILING DIFFUSER CUBIC FEET PER MINUTE	<u> </u>	TEE OUTLET DOWN AIR VENT		DIRECTION OF FLOW	M2.4 MAIN LEVEL PLUMBING AND PIPING PLAN WEST
CIRC CO	CIRCULATING CLEAN OUT	<u>U</u> ₽	AAV AUTOMATIC AIR VENT	XX OR XX	EQUIPMENT ITEM XX	M3.1 LOWER LEVEL HVAC PLAN EAST
CONT	CONDENSATE CONTINUATION		BALANCING VALVE		LINE, ARCHITECTURAL BACKGROUND	M3.2 LOWER LEVEL HVAC PLAN WEST
COORD	COORDINATE CLEAN OUT TO GRADE		BALL VALVE		LIGHT LINE, EXISTING	M3.3 MAIN LEVEL HVAC PLAN EAST
CW DEG	COLD WATER DEGREE		BUTTERFLY VALVE		HEAVY LINE, NEW WORK	M3.4 MAIN LEVEL HVAC PLAN WEST
DIA DIM	DIAMETER DIMENSION	N	CHECK VALVE	ø	ROUND DUCT	M3.5 ROOF MECHANICAL PLAN EAST
DN DWG	DOWN DRAWING		FCO CLEAN OUT — FLOOR WCO CLEAN OUT — WALL	X/Y	X PLAN OR HORIZONTAL DIMENSION Y ELEVATION OR VERTICAL DIMENSION	M3.6 ROOF MECHANICAL PLAN WEST
E EA	EXISTING EACH, EXHAUST AIR		GATE VALVE	· <i>!++++++</i>		M4.1 MECHANICAL SECTIONS
ELEV, EL EAT	ELEVATION ENTERING AIR TEMPERATURE		GLOBE VALVE	'\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	EXISTING WORK TO BE REMOVED	M4.2 ENLARGED PLANS M4.3 ENLARGED KITCHEN PLAN
EG EMR	EXHAUST GRILLE ELEVATOR EQUIPMENT ROOM		HB OR WH HOSE BIBB OR WALL HYDRANT	7//////////////////////////////////////		M4.4 HEATING AND CHILLED WATER SYSTEM SCHEMATICS
ESP	EXTERNAL STATIC PRESSURE	↓ io	INDIRECT DRAIN		BREAK IN PIPE OR DUCTWORK	M5.1 LOWER LEVEL FIRE SPRINKLER ROUTING PLAN EAST
EWT EXIST	ENTERING WATER TEMPERATURE EXISTING EXHAUST		INSTRUMENT TEST CONNECTION		FLAG NOTE	M5.2 LOWER LEVEL FIRE SPRINKLER ROUTING PLAN WEST
EXH	EXHAUST EXPANSION		MODULATING VALVE PETE'S PLUG (TEST CONNECTION)	Δ.	DEMONDA NOTT	M5.3 MAIN LEVEL FIRE SPRINKLER ROUTING PLAN EAST
F FC	FAHRENHEIT FORWARD CURVED	?	PRESSURE GAGE	<u> </u>	REVISION NOTE AREA CLOUDED CONTAINS	M5.4 MAIN LEVEL FIRE SPRINKLER ROUTING PLAN WEST
FCO FD	FLOOR CLEANOUT FIRE DAMPER, FLOOR DRAIN		PUMP (DIRECTION SHOWN BY ARROW)		CHANGES TO DRAWINGS SUBSEQUENT TO PREVIOUS ISSUE	M6.1 DETAILS
FDC FOIC	FIRE DEPARTMENT CONNECTION FURNISHED BY OWNER INSTALLED BY CONTRACTOR	——ф_	PRESSURE REDUCING VALVE		SUBSEQUENT TO PREVIOUS 1930E	M6.2 DETAILS
FLA FPM	FULL LOAD AMPS FEET PER MINUTE	\$\frac{\partial}{\partial}	PRESSURE RELIEF VALVE	SYMBOL ABBE	<u>DESCRIPTION</u>	M6.3 DETAILS
FT G	FOOT, FEET GAS	——————————————————————————————————————	SOLENOID VALVE			M6.4 DETAILS
GA GAL	GAUGE GALLONS		THERMOMETER THREE WAY VALVE	DN DN	DUCT OFFSET DOWN IN FLOW DIRECTION	M6.5 DETAILS
GALV GPH	GALVANIZED GALLONS PER HOUR	X	TWO WAY VALVE	- UP + UP	DUCT OFFSET UP IN	
GRD GWB	GRILLES, REGISTERS, AND DIFFUSERS GYPSUM WALLBOARD		UNION		FLOW DIRECTION	
HP HVAC	HORSEPOWER HEATING, VENTILATION AND AIR CONDITIONING		WYE STRAINER WITH VALVE		DUCT WITHOUT SOUND LINING DUCT WITH INTERNAL LINING	GENERAL NOTES
HW HWC	HOT WATER HOT WATER CIRC		WYE STRAINER	<u> </u>	ACOUSTICAL LINING	
HWG HWR	HIGH WALL GRILLE HOT WATER RETURN	<u>S</u>	RPBP REDUCED PRESSURE BACKFLOW PREVENTER		SINGLE LINE DUCT W/ INTERNAL LINING	THE MECHANICAL SYSTEM SHALL CONSIST OF ALL WORK SHOWN ON THE DRAWINGS, INCLUDING PLANS, DIAGRAMS, DETAILS, ETC., AND ALL WORK AS IDENTIFIED IN THE SPECIFICATIONS. WORK
HWS	HOT WATER SUPPLY INDIRECT DRAIN, INSIDE DIAMETER		DCVA DOUBLE CHECK VALVE DDCVA DOUBLE DETECTOR CHECK VALVE	FLE	X FLEXIBLE CONNECTION DOUBLE LINE	INCLUDES FURNISHING, INSTALLING SYSTEM, INTEGRATION, TESTING, TRAINING AND WARRANTY OF THE MECHANICAL SYSTEMS AS SHOWN AND SPECIFIED. PROVIDE A COMPLETE AND WORKABLE MECHANICAL SYSTEM COMPLETE WITH ALL MECHANICAL WORK AS REQUIRED FOR SYSTEM OPERATION.
IE IN	INVERT ELEVATION	——————————————————————————————————————	RPBP REDUCED PRESSURE	-NORNN- FLEX	C FLEXIBLE CONNECTION	THE DESIGN OF MECHANICAL SYSTEMS HAS BEEN BASED UPON THE EQUIPMENT AS MANUFACTURED
KW LAT	KILOWATT, (1000 WATTS) LEAVING AIR TEMPERATURE		BACKFLOW PREVENTER WITH FUNNEL DRAIN		SINGLE LINE	BY THE MANUFACTURERS LISTED ON THE EQUIPMENT SCHEDULE. EQUIPMENT NAMED IN THE SPECIFICATIONS MAY BE SUBSTITUTED PROVIDED THAT THE EQUIPMENT MEETS OR EXCEEDS ALL
LWG	LOW WALL GRILLE	⊜	FD FLOOR DRAIN	RA/E	EA RETURN AIR OR EXHAUST AIR DUCT	SCHEDULED AND SPECIFIED CRITERIA, AND HAS THE WRITTEN APPROVAL OF THE ENGINEER. COORDINATE THE INSTALLATION WITH ALL TRADES AND GUARANTEE IN WRITING THAT NO ADDITIONAL
MAX	LEAVING WATER TEMPERATURE MAXIMUM	Ø	FS FLOOR SINK	→ RG	RETURN AIR GRILLE	COST WILL BE INCURRED DUE TO PRODUCT SUBSTITUTION.
MBH MCA	1000 BTU PER HOUR MINIMUM CIRCUIT AMPS	KCW	CW KITCHEN COLD WATER	-⊅ □ RG	RETURN GRILLE W/ SOUND BOOT, SEE 5M6.1	CONTRACTOR SHALL FIELD VERIFY ALL, BUILDING AND SITE DIMENSIONS BEFORE BEGINNING CONSTRUCTION OR ORDERING EQUIPMENT. DO NOT SCALE FROM PLANS.
MIN MTG	MINIMUM MOUNTING	KHWC	HW KITCHEN HOT WATER HWC KITCHEN HOT WATER CIRCULATION	- I→ SA		DIMENSIONS SHOWN FOR DUCTWORK WITH SOUND LINING SHALL BE NET FREE DIMENSION WITH SOUND LINING INSTALLED. SOUND LINING SHALL BE 1" THICK UNLESS OTHERWISE NOTED.
MFG NC	MANUFACTURER NORMALLY CLOSED		CW COLD WATER	SA SA	SUPPLY AIR DUCT	DINING INSTALLED. SOUND LINING SHALL BE 1 HICK UNLESS OTHERWISE NOTED. PIPING OR DUCTWORK PENETRATIONS THROUGH WALLS, PARTITIONS, CEILINGS AND ROOFING SYSTEMS
NIC NFPA	NOT IN CONTRACT NATIONAL FIRE PROTECTION ASSOCIATION		HW HOT WATER	->	A RETURN AIR OR EXHAUST AIR DUCT	SHALL BE SEALED AIRTIGHT. PIPING, DUCTWORK, OR STRUCTURAL COLUMN PENETRATION THROUGH PLENUMS, DUCTS OR RETURN SHAFTS SHALL BE SEALED AIRTIGHT. PIPING PENETRATIONS THROUGH
NG NO	NATURAL GAS NORMALLY OPEN	HWC	HWC HOT WATER CIRCULATION W WASTE	SD	SUPPLY GRILLE OR DIFFUSER OPEN AREA INDICATED ACTIVE ELEMENTS	SLAB SHALL BE SLEEVED AND SEALED WATERTIGHT.
NTS	NOT TO SCALE	V	V VENT		(4 WAY IF HATCH IS NOT SHOWN)	CONFINE THE APPLICATION OF FLEXIBLE DUCTWORK TO LOCATIONS INDICATED BY THE CONTRACT DOCUMENTS. MAXIMUM LENGTH OF FLEXIBLE DUCTWORK SHALL NOT EXCEED SIX FEET.
OA OAT	OUTSIDE AIR OUTSIDE AIR TEMPERATURE		VTR VENT THROUGH ROOF		LINEAR DIFFUSER	7. PROVIDE ALL REQUIRED ELECTRICAL POWER, MOTOR STARTERS AND CONTROL INTERFACE AND
OBD OBD	ON CENTER OPPOSED BLADE DAMPER		CWS CHILLED WATER SUPPLY CWR CHILLED WATER RETURN	EA	EXHAUST AIR DUCT	CONNECTIONS AS REQUIRED FOR SYSTEM OPERATION, COORDINATE REQUIREMENTS WITH THE ELECTRICAL CONTRACTOR.
ORD OSA	OVERFLOW ROOF DRAIN OUTSIDE AIR		HWS HEATING WATER SUPPLY	∠ EG	EXHAUST AIR GRILLE	8. PROVIDE ALL REQUIRED EQUIPMENT GUARDS AND STRUCTURAL SUPPORT AS RECOMMENDED BY
OS&Y PH	OUTSIDE STEM & YOLK PHASE	— — HWR — —	HWR HEATING WATER RETURN	+ 13 +	TRANSITION - RECTANGULAR	EQUIPMENT MANUFACTURERS TO SUPPORT EQUIPMENT AND TO ASSURE SYSTEM PERFORMANCE AND SAFE OPERATION, COORDINATE PRIOR TO INSTALLATION, PROVIDE ACCESS PARLES AS REQUIRED.
POC PSI	POINT OF CONNECTION POUNDS PER SQUARE INCH		RWL RAINWATER LEADER ORL OVERFLOW RAINWATER LEADER		TO ROUND	TO MAINTAIN EQUIPMENT, ACCESS VALVES AND DAMPER OPERATORS. COORDINATE FIRE RATING WITH THE ARCHITECTURAL DOCUMENTS.
RA RL	RETURN AIR RAIN LEADER	— — RS — —	RS REFRIGERANT SUCTION		RECTANGULAR ELBOW WITH TURNING VANES	COORDINATE LOCATION OF ALL THERMOSTATS AND ALL WALL MOUNTED EQUIPMENT, WITH THE ARCHITECT. LOCATIONS AS SHOWN ON THE DRAWINGS ARE FOR REFERENCE ONLY. LOCATE
RD REF	ROOF DRAIN REFERENCE	RL	RL REFRIGERANT LIQUID	⊗	CARBON MONOXIDE DETECTOR	THERMOSTATS 4'-0" AFF. UNLESS NOTED OTHERWISE.
REQD RG	REQUIRED RETURN GRILLE	C	C CONDENSATE DRAIN NG NATURAL GAS	\$	SWITCH	10. PROVIDE UNIT SUPPORT PER MANUFACTURERS RECOMMENDATIONS. BUILDING AND STRUCTURE IS DESIGNED TO SUPPORT EQUIPMENT, BUT NOT DETAILED TO ACCOMMODATE EACH AVAILABLE
RPM RPBFP	REVOLUTIONS PER MINUTE REDUCED PRESSURE BACKFLOW PREVENTER	LPNG	LPNG LOW PRESSURE NATURAL GAS	EQUIP ID# OR ®	THERMOSTAT EQUIPMENT LOCATION	EQUIPMENT CONFIGURATION OR MANUFACTURER. CONTRACTOR SHALL PROVIDE MATERIALS AND SERVICES INCLUDING BUT NOT LIMITED TO, ADDITIONAL STEEL, SUPPORT BRACKETS, HANGERS,
SA SD	SUPPLY AIR STORM DRAIN	ss	SS SANITARY SEWER	(S)	SENSOR	ACCESSORIES, AND STRUCTURAL ENGINEERING AS REQUIRED TO SUPPORT EQUIPMENT.
SHT SM	SHEET SHEET METAL		F FIRE PROTECTION WATER PIPE SIZE REDUCTION	®	HUMIDISTAT	11. MAINTAIN 10'-0" CLEARANCE BETWEEN OUTSIDE AIR INTAKE AND EXHAUST OUTLET. 12. PROVIDE FRAMING, CUTTING, BLOCKING AND PATCHING AS REQUIRED.
SO SP	SCREENED OPENING STATIC PRESSURE	DN	PIPE SLOPE DOWN THIS DIRECTION	BDD and	DAGW DRAFT TWOTE	PROVIDE PROMING, COTTING, BLOCKING AND PATCHING AS REQUIRED. 13. PROVIDE MINIMUM OUTSIDE AIR PER WASHINGTON ADMINISTRATIVE CODE REQUIREMENTS.
SPD	STATIC PRESSURE DROP		PIPE CAP 1-HR OCCUPANCY SEPARATION WALL	BDI		14. SHUT OFF FOR SMOKE CONTROL; PROVIDE SMOKE DETECTORS FOR AUTOMATIC FAN SHUT DOWN IN
SPEC TDH	SPECIFICATIONS TOTAL DYNAMIC HEAD TOP OF DUCT	become a summer or section at section in solitor	1-HR RATED WALL (CORRIDOR)	FD FD	FIRE DAMPER, WALL OR CEILING	AIR CONDITIONING UNITS IN ACCORDANCE WITH UMC SECTION 608.
TOD TPD	TOP OF DUCT TOTAL PRESSURE DROP	0	CEILING MOUNTED FIRE SPRINKLER	FSI) FIRE AND SMOKE DAMPER	15. PROVIDE SMOKE DAMPERS IN COMPLIANCE WITH 1997 UBC SECTION 713.
TSP TYP	TOTAL STATIC PRESSURE TYPICAL	តំ	SIDE WALL MOUNTED FIRE SPRINKLER ALARMED CHECK VALVE W/FLOW		viii viii viii viii viii viii	
V VD	VOLT, VENT VOLUME DAMPER	_	SWITCH	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	VOLUME DAMPER	2001 WSEC COMPLIANCE
VTR W	VENT THRU ROOF WASTE	n n	O.S. & Y. VALVE W/SUPERVISED TAMPER	MOI	D MOTOR OPERATED DAMPER	
WB WB	WET BULB TEMPERATURE WALL CLEAN OUT				CLEARANCE REQUIREMENT	FOR 2001 WSEC COMPLIANCE INFORMATION, SEE 4/M6.5
W/ WCO	WITH WALL CLEAN OUT				}	<u> </u> • • • • • • • • • • • • • • • • • • •
WG WH	WATER GAUGE WALL HYDRANT				FILTER	
WHA	WATER HAMMER ARRESTER					
NOTE: DRAW	INGS MAY NOT CONTAIN ALL ABBREVIATIONS LISTED	,				<u> </u>

Poison Building 71 Columbia Sixth Floor Seattle, WA 98104 Phone 206.682.6837 Fax 206.682.5692

THE GREENBUSCH GROUP, INC.



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WA 98007

INTERIOR DESIGN Allbee Romein 911 Western Avenue Suite 201 Seattle, WA 98104

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LEGEND, ABBREV, GENERAL NOTES & DWG INDEX

M0.1

	T	G)A (DO)	SE	RVICE C	ONNECTIO	N
FIXTURE	MARK	SYMBOL	WASTE	VENT	CW	HW
FLOOR CLEAN OUT	FC0	0	-	-	-	-
WALL CLEAN OUT	wco	-11	-	-	-	-
DRINKING FOUNTAINS	DF		2"	2"	1/2"	-
FLOOR DRAIN	FD	(2"	2*	3/8"	-
FLOOR SINK	FS	Ø	2"/4"	2"	-	-
HOSE BIB, WALL HYDRANT	HB/WH	/	-		3/4"	-
LAVATORY	L		2"	2"	1/2"	1/2"
SERVICE SINK	ss	D	3"	2*	1/2*	1/2"
SHOWER	SH	\boxtimes	2"	2*	3/4"	3/4"
SINK	s	<u></u>	2"	2"	1/2"	1/2"
URINAL	υ	2	2*	2"	1"	-
WATER CLOSET	WC	О	4"	2"	114"	_
YARD HYDRANT	YH	-0	-	-	3/4"	-

				FAN	COIL U	NIT S	CHEDU	JLE						
					DESIGN CO	NDITIONS					BAS	SIS OF	DESIGN	
								MIN.			ELECTRIC	AL		
		TOTAL	SENS	SIBLE	то:	ΓAL		OUTSIDE	EXTERNAL		MOTOR		1	
		COOLING	COO	LING	HEA	TING	SUPPLY	AIR MIN	STATIC	MODEL	HP	VOLTS/	WEIGHT	
MARK	AREA SERVED	мвн	мвн	GPM	мвн	GPM	CFM	CFM	IN. W.G.	NUMBER		PHASE	LBS.	REMARKS
FC-1	DANCE 001	36.0	27.0	7.2	30.0	3,0	1400	300	0.375		2	460/3	600	1,2,3,4,5
FC-2	DANCE 001	36.0	27.0	7.2	30.0	3.0	1200	300	0.375		2	460/3	600	1,2,3,4,5
	FITNESS 002	36.0	27.0	7.2	30.0	3.0	1400	300	0.375	-	2	460/3	600	1,2,3,4,5
C-4	FITNESS 002	36.0	27.0	7.2	30.0	3.0	1200	300	0.375	_	2	460/3	600	1,2,3,4,5
C-5	GAME ROOM/SOUTH LOBBY	90.0	67.5	18.0	150.0	15.0	3200	1900	0.400	_	3	460/3	600	1,2,3,4,5
C6	MAINTENANCE 004/LOCKERS/REST	28.0	21.0	5.6	80.0	8.0	1250	1250	0.375	-	2	460/3	600	1,2,3,4,5
	PROGRAM ROOM 101	48.0	36.0	9.6	72.0	7.2	1800	980	0.375	_	2	460/3	600	1,2,3,4,5
	PROGRAM ROOM 102	48.0	36.0	9.6	72.0	7.2	1600	980	0.375	-	2	460/3	600	1,2,3,4,5
C-9	PROGRAM ROOM 103	48.0	36.0	9.6	72,0	7.2	1800	980	0.375		2	460/3	600	1,2,3,4,5
C-10	PROGRAM ROOM 104	48.0	36.0	9.6	72.0	7.2	1600	980	0.375	_	2	460/3	600	1,2,3,4,5
	MEETING/ADMIN/HEALTH	48.0	36.0	9.6	60.0	6.0	1800	660	0.400	-	2	460/3	600	1,2,3,4,5,6
C-12	SENIOR/PROGRAM	64.0	48.0	12.8	96.0	9.6	2400	1400	0.400		2	460/3	600	1,2,3,4,5,6
							<u> </u>							
SUM		566.0	424.5	113.2	794.0	79.4	 					 		

JIE:

EXTERNAL STATIC PRESSURE ALLOWS FOR DUCTWORK AND DIFFUSER, UNIT MANUFACTURER TO ADD ALLOWANCE FOR WET COIL.

COIL CONDITIONS: COOLING 80/67 F EAT, 45 F EWT, 55 F LWT; HEATING: 55F EAT, 180 F EWT, 160 F LWT.

SUM TOTALS DO NOT INCLUDE QUANTITIES FOR AHU-2.

REMARKS:

1. BASIS OF DESIGN: TEMTROL ACCEPTED ALTERNATES: GAYLORD (HUNTAIRE), PACE (YORK)

2. 1" INTERNALLY SPRING ISOLATED

3. DIRECT DRIVE FAN WITH VARIABLE SPEED DRIVE

4. 100% OUTSIDE AIR ECONOMIZER MIXING SECTION

•	CONSTAINT V	OLOM	E FA	N COIL			
3.	HORIZONTAL	UNIT	ALL	OTHERS	ARE	VERTICAL	

		^		AID 1	JANIDUNO UNIT AUL 4		
SECTION				AIR I	HANDLING UNIT AHU—1 REMARKS		
SUPPLY FAN	16,000 CFM, 1. 22 INCH FORWA	5 INCHES EX ARD CURVED	TERNAL : FAN, 15	STATIC P HORSEP	RESSURE, ESTIMATED 2.5 INCH TOTAL STATIC PRESSURE, OWER, 460 VOLT, THREE PHASE		
FILTERS	2" PLEATED "Z	" FILTER SE	CTION, 30	PERCEN	IT MINIMUM EFFICIENCY.		
CABINET	INSULATION, SC	LID GALVAN	ZED SHE	TMETAL	R LINER, 2" THICK, 3 POUND DENSITY ACOUSTICAL OUTER PANEL. FABRICATE WITH BOLTED CONSTRUCTION, ED FAN. FINISH IN STANDARD FACTORY ENAMEL.		
ECONOMIZER	PROVIDE UNIT	WITH FULL E	CONOMIZE	R MIXING	SECTION.		
WEIGHT	2,200 POUNDS						
ACCESS					O MECHANICAL DRAWINGS.		
POWER			ECTION.	COORDIN	NATE WITH ELECTRICAL CONTRACTOR.		
SMOKE DETECTION	BY ELECTRICAL	•					
IANUFACTURE	R BASIS FOR DES	IGN: TEMT	OL. ACC	EPTABLE	ALTERNATES: GAYLORD (HUNTAIRE), PACE (YORK)		
			. /	AIR H	IANDLING UNIT AHU-2		
SECTION					REMARKS		
SUPPLY FAN	24 INCH SWSI I	PLUG FAN, 7	.5 Horse	POWER,	RESSURE, ESTIMATED 2 INCH TOTAL STATIC PRESSURE, 460 VOLT, THREE PHASE		
FILTERS	2" PLEATED "Z	" FILTER SE	CTION, 30	PERCEN	IT MINIMUM EFFICIENCY.		
CABINET	INSULATION, SO	ILID GALVAN	ZED SHEE	TMETAL	LINER, 2° THICK, 3 POUND DENSITY ACOUSTICAL OUTER PANEL. FABRICATE WITH BOLTED CONSTRUCTION, ID FAN. FINISH IN STANDARD FACTORY ENAMEL.		
COOLING COIL	COOLING CAPACENTERING AIR	CITY, 85 DEC TEMPERATUR ATURE, .3"	REE F DE E, 45 DEC WATER All	RY BULB SREE F E R SIDE P	T./HR. TOTAL COOLING CAPACITY, 144,000 BTU/HR. SENSIBLE ENTERING AIR TEMPERATURE, 67 DEGREE F WETBULB ENTERING WATER TEMPERATURE AND 56 DEGREE LEAVING RESSURE DROP, 5.6 FOOT WATER SIDE PRESSURE DROP, Y AT 500 FPM.		
HEATING COIL	HOT WATER HEATING COIL 275,000 BUT./HR. TOTAL HEATING CAPACITY 55 DEGREE F DRY BULB ENTERING AIR TEMPERATURE, 180 DEGREE F ENTERING WATER TEMPERATURE AND 160 DEGREE LEAVING WATER TEMPERATURE, 1.2" WATER AIR SIDE PRESSURE DROP, 4.9 FOOT WATER SIDE PRESSURE DROP, 3.0 GPM FLOW RATE. MAXIMUM AIR VELOCITY AT 500 FPM.						
ECONOMIZER	PROVIDE UNIT Y	MTH FULL E	CONOMIZE	R MIXING	SECTION.		
PIPING CHASE	PROVIDE AIRTIG	HT PIPE CH	SE THRO	UGH ROO	OF TO AHU-2 FOR INTERNAL PIPING CONNECTION.		
WEIGHT	5,600 POUNDS			~~			
ACCESS	ALL ACCESS FR	ROM SIDES O	F UNIT.	REFER T	O MECHANICAL DRAWINGS.		
POWER	SINGLE POINT P	POWER CONN	ECTION.	COORDIN	IATE WITH ELECTRICAL CONTRACTOR.		
SMOKE	BY ELECTRICAL.						
	R BASIS FOR DES	IGN: TEMTR	OL. ACC	EPTABLE	ALTERNATES: GAYLORD (HUNTAIRE), PACE (YORK)		
			-D TI	JBE F	RADIATION SCHEDULE		
MARK	LENGTH	BTUH	ATING DA	TA GPM	REMARKS		
FTU-1	LENGTH 312 INCHES	HE BTUH 18,000	ATING DA EWT 180	TA GPM 2.0	ARCHITECTURAL ENCLOSURE, CASEWORK FABRICATION REFER TO ARCHITECTURAL AND MECHANICAL DRAWINGS. COPPER ALUMINUM ELEMENT, VULCAN OR ACCEPTED EQUAL.		
	LENGTH	BTUH	ATING DA	TA GPM	ARCHITECTURAL ENCLOSURE, CASEWORK FABRICATION REFER TO ARCHITECTURAL AND MECHANICAL DRAWNIOS. COPPER ALUMINUM ELEMENT, VULCAN OR ACCEPTED EQUAL. ARCHITECTURAL ENCLOSURE, CASEWORK FABRICATION REFER TO ARCHITECTURAL AND MECHANICAL DRAWINGS.		
FTU-1	LENGTH 312 INCHES	HE BTUH 18,000	ATING DA EWT 180	TA GPM 2.0	ARCHITECTURAL ENCLOSURE, CASEWORK FABRICATION REFER TO ARCHITECTURAL AND MECHANICAL DRAWNINGS. COPPER ALUMINUM ELEMENT, VULCAN OR ACCEPTED EQUAL. ARCHITECTURAL ENCLOSURE, CASEWORK FABRICATION REFER TO ARCHITECTURAL AND MECHANICAL DRAWNINGS. COPPER ALUMINUM ELEMENT, VULCAN OR ACCEPTED EQUAL. ARCHITECTURAL ENCLOSURE, CASEWORK FABRICATION		
FTU-1	LENGTH 312 INCHES	HE BTUH 18,000	ATING DA EWT 180	TA GPM 2.0	ARCHITECTURAL ENCLOSURE, CASEWORK FABRICATION REFER TO ARCHITECTURAL AND MECHANICAL DRAWINGS. COPPER ALUMINUM ELEMENT, VULCAN OR ACCEPTED EQUAL. ARCHITECTURAL ENCLOSURE, CASEWORK FABRICATION REFER TO ARCHITECTURAL AND MECHANICAL DRAWINGS. COPPER ALUMINUM ELEMENT, VULCAN OR ACCEPTED EQUAL. ARCHITECTURAL ENCLOSURE, CASEWORK FABRICATION REFER TO ARCHITECTURAL AND MECHANICAL DRAWINGS. COPPER ALUMINUM ELEMENT, VULCAN OR ACCEPTED EQUAL. ARCHITECTURAL ENCLOSURE, CASEWORK FABRICATION		
FTU-1 FTU-2 FTU-3	LENGTH 312 INCHES 312 INCHES 312 INCHES	HE BTUH 18,000 18,000	ATING DA EWT 180 180	2.0 2.0	ARCHITECTURAL ENCLOSURE, CASEWORK FABRICATION REFER TO ARCHITECTURAL AND MECHANICAL DRAWINGS. COPPER ALUMINUM ELEMENT, VULCAN OR ACCEPTED EQUAL ARCHITECTURAL ENCLOSURE, CASEWORK FABRICATION REFER TO ARCHITECTURAL AND MECHANICAL DRAWINGS. COPPER ALUMINUM ELEMENT, VULCAN OR ACCEPTED EQUAL ARCHITECTURAL ENCLOSURE, CASEWORK FABRICATION REFER TO ARCHITECTURAL AND MECHANICAL DRAWINGS.		
FTU-1 FTU-2 FTU-3 FTU-4	LENGTH 312 INCHES 312 INCHES 312 INCHES 312 INCHES	HE BTUH 18,000 18,000 18,000 18,000	ATING DA EWT 180 180 180	TA GPM 2.0 2.0 2.0	ARCHITECTURAL ENCLOSURE, CASEWORK FABRICATION REFER TO ARCHITECTURAL AND MECHANICAL DRAWINGS. COPPER ALUMINUM ELEMENT, VULCAN OR ACCEPTED EQUAL. ARCHITECTURAL ENCLOSURE, CASEWORK FABRICATION REFER TO ARCHITECTURAL AND MECHANICAL DRAWINGS. COPPER ALUMINUM ELEMENT, VULCAN OR ACCEPTED EQUAL. ARCHITECTURAL ENCLOSURE, CASEWORK FABRICATION REFER TO ARCHITECTURAL AND MECHANICAL DRAWINGS. COPPER ALUMINUM ELEMENT, VULCAN OR ACCEPTED EQUAL. ARCHITECTURAL ENCLOSURE, CASEWORK FABRICATION REFER TO ARCHITECTURAL AND MECHANICAL DRAWINGS. COPPER ALUMINUM ELEMENT, VULCAN OR ACCEPTED EQUAL. FINNED TUBE RADIATOR, WITH COVER AND MOUNTING		
FTU-2 FTU-3 FTU-4 FTU-5	LENGTH 312 INCHES 312 INCHES 312 INCHES 312 INCHES 60 INCHES	HE BTUH 18,000 18,000 18,000 2,700	ATING DA EWT 180 180 180	2.0 2.0 2.0 2.0	ARCHITECTURAL ENCLOSURE, CASEWORK FABRICATION REFER TO ARCHITECTURAL AND MECHANICAL DRAWINGS. COPPER ALUMINUM ELEMENT, VULCAN OR ACCEPTED EQUAL. ARCHITECTURAL ENCLOSURE, CASEWORK FABRICATION REFER TO ARCHITECTURAL AND MECHANICAL DRAWINGS. COPPER ALUMINUM ELEMENT, VULCAN OR ACCEPTED EQUAL. ARCHITECTURAL ENCLOSURE, CASEWORK FABRICATION REFER TO ARCHITECTURAL AND MECHANICAL DRAWINGS. COPPER ALUMINUM ELEMENT, VULCAN OR ACCEPTED EQUAL. ARCHITECTURAL ENCLOSURE, CASEWORK FABRICATION REFER TO ARCHITECTURAL AND MECHANICAL DRAWINGS. COPPER ALUMINUM ELEMENT, VULCAN OR ACCEPTED EQUAL. FINNED TUBE RADIATOR, WITH COVER AND MOUNTING ACCESSORIES. RUNTAL RADIATOR VLX 14/14. ARCHITECTURAL ENCLOSURE, CASEWORK FABRICATION REFER TO ARCHITECTURAL AND MOUNTING ACCESSORIES. RUNTAL RADIATOR VLX 14/14. ARCHITECTURAL ENCLOSURE, CASEWORK FABRICATION REFER TO ARCHITECTURAL AND MECHANICAL DRAWINGS.		
FTU-1 FTU-2 FTU-3 FTU-4 FTU-5 FTU-6	LENGTH 312 INCHES 312 INCHES 312 INCHES 312 INCHES 60 INCHES 72 INCHES	HE BTUH 18,000 18,000 18,000 2,700 3,000	180 180 180 180	2.0 2.0 2.0 2.0 0.50	ARCHITECTURAL ENCLOSURE, CASEWORK FABRICATION REFER TO ARCHITECTURAL AND MECHANICAL DRAWINGS. COPPER ALUMINUM ELEMENT, VULCAN OR ACCEPTED EQUAL. ARCHITECTURAL ENCLOSURE, CASEWORK FABRICATION REFER TO ARCHITECTURAL AND MECHANICAL DRAWINGS. COPPER ALUMINUM ELEMENT, VULCAN OR ACCEPTED EQUAL. ARCHITECTURAL ENCLOSURE, CASEWORK FABRICATION REFER TO ARCHITECTURAL AND MECHANICAL DRAWINGS. COPPER ALUMINUM ELEMENT, VULCAN OR ACCEPTED EQUAL. ARCHITECTURAL ENCLOSURE, CASEWORK FABRICATION REFER TO ARCHITECTURAL AND MECHANICAL DRAWINGS. COPPER ALUMINUM ELEMENT, VULCAN OR ACCEPTED EQUAL. FINNED TUBE RADIATOR, WITH COVER AND MOUNTING ACCESSORIES. RUNTAL RADIATOR VLX 14/14. FINNED TUBE RADIATOR, WITH COVER AND MOUNTING ACCESSORIES. RUNTAL RADIATOR VLX 14/14. ARCHITECTURAL ENCLOSURE, CASEWORK FABRICATION		
FTU-1 FTU-2 FTU-3 FTU-4 FTU-5 FTU-6	LENGTH 312 INCHES 312 INCHES 312 INCHES 312 INCHES 60 INCHES 72 INCHES	HE BTUH 18,000 18,000 18,000 2,700 3,000 12,000 36,000	180 180 180 180 180 180 180 180 180 180	TA GPM 2.0 2.0 2.0 2.0 0.50 0.8 1.5 3.0	ARCHITECTURAL ENCLOSURE, CASEWORK FABRICATION REFER TO ARCHITECTURAL AND MECHANICAL DRAWINGS. COPPER ALUMINUM ELEMENT, VULCAN OR ACCEPTED EQUAL. ARCHITECTURAL ENCLOSURE, CASEWORK FABRICATION REFER TO ARCHITECTURAL AND MECHANICAL DRAWINGS. COPPER ALUMINUM ELEMENT, VULCAN OR ACCEPTED EQUAL. ARCHITECTURAL ENCLOSURE, CASEWORK FABRICATION REFER TO ARCHITECTURAL AND MECHANICAL DRAWINGS. COPPER ALUMINUM ELEMENT, VULCAN OR ACCEPTED EQUAL. ARCHITECTURAL ENCLOSURE, CASEWORK FABRICATION REFER TO ARCHITECTURAL AND MECHANICAL DRAWINGS. COPPER ALUMINUM ELEMENT, VULCAN OR ACCEPTED EQUAL. FINNED TUBE RADIATOR, WITH COVER AND MOUNTING ACCESSORIES. RUNTAL RADIATOR VLX 14/14. FINNED TUBE RADIATOR, WITH COVER AND MOUNTING ACCESSORIES. RUNTAL RADIATOR VLX 14/14. ARCHITECTURAL ENCLOSURE, CASEWORK FABRICATION REFER TO ARCHITECTURAL AND MECHANICAL DRAWINGS. COPPER ALUMINUM ELEMENT, VULCAN OR ACCEPTED EQUAL. ARCHITECTURAL ENCLOSURE, CASEWORK FABRICATION REFER TO ARCHITECTURAL AND MECHANICAL DRAWINGS. COPPER ALUMINUM ELEMENT, VULCAN OR ACCEPTED EQUAL. ARCHITECTURAL ENCLOSURE, CASEWORK FABRICATION REFER TO ARCHITECTURAL AND MECHANICAL DRAWINGS. COPPER ALUMINUM ELEMENT, VULCAN OR ACCEPTED EQUAL. ARCHITECTURAL ENCLOSURE, CASEWORK FABRICATION REFER TO ARCHITECTURAL AND MECHANICAL DRAWINGS. COPPER ALUMINUM ELEMENT, VULCAN OR ACCEPTED EQUAL.		

	MAKE UP AIR UNIT SCHEDULE
MARK	REMARKS_/3\
MUAU-1	KITCHEN VENTILATION SUPPLY UNIT, INDIRECT PRED GAS HEATER, MAKE-UP AIR UNIT. 160 MBH HEATING OUTPUT, 3200-GENEGUPPLY, 0.75" SCIERANZ STATIC PRESSURE SUPPLY, 2 HP SUPPLY, 208 VOLT, 3 PHASE, INDIRECT GAS FIRED FURNACE SECTION CONTROL CIRCUIT, 4 AMPS, 120 VOLT, 1 PHASE. EXHAUST FAM 1.22" EXTERNAL STATIC PRESSURE 1-1/2 HP 208 VOLT 3 PHASE. 1400 LBS WEIGHT. INTERNALLY SPRING ISOLATE FAN ASSEMBLY. PROVIDE WITH REMOTE CONTROL PANEL. BASIS FOR DESIGN BY GREENHECK IGX-112-H22, OR ACCEPTED EQUAL.

	1		STATIC	DUCT	L						1 LOS		BAS	S FO	₹
MARK	ROOM	LENGTH	PRESSURE	CONNECTION	63	125	250	500	1000	2000	4000	8000	D	ESIGN	
ST-1	SEE DWG	36 INCHES	.05	APPROX 72" X 72"	4	7	12	19	23	23	18	11	IAC	3MS	(1)
ST-2	SEE DWG	36 INCHES	.05	15" X 18"	6	8	14	23	27	20	12	8	IAC	3MS ((2)
31-2	SEE DWG	JO INCHES		L 13 × 10	10	L <u>o</u>	141	25	21		12		IAC	OMO I	į

				AIR C	ONE	INOITIC	NG	UNIT	SC	HED	ULE
		EXT. STATIC	COOLING NOMINAL	HEATING NOMINAL		WEIGHT,		ELECT		•	
MARK	CFM	PRES.	BTUH	BTUH	EER	LBS.	MCA	MOCP			DESCRIPTION
AC-1	600	0.0"	18,000 INDOOR	6,400	10	100	1	-	208/ 230		MITSUBISHI PK18EK, WALL MOUNTED INDOOR UNIT, WITH REFRIGERANT LINE KIT, REMOTE MOUNTED THERMOSTAT PROVIDE MATCHING OUTDOOR UNIT OR ACCEPTED EQUAL
			OUTDOOR		16	200	16	-	208/ 230		MATCHING OUTDOOR CONDENSING UNIT, MITSUBISHI OR ACCEPTED EQUAL.
	GAS FIRED DUCT FURNACE SCHEDULE										

		HEATING			ELECT	RICAL		
l		OUTPUT	WEIGH	łT.		1	1	
MARK	CFM	BTUH	POUN	DŚ	VOLTS	PHASE	REMARKS	
GF-1	8,000	320,000	450)	120		NATURAL GAS FIRED DUCT FURNACE.	
١	0,000	020,000	1		,	1	SEPARATED COMBUSTIONS, MINIMUM AFUE	
l			1		l	i	80 PERCENT. STAINLESS STEEL HEAT EXCHANGER.	
1			1		l	i	FIELD COORDINATE LEFT AND RIGHT HAND.	
1		l	1		l	1		
l			1		İ	l	REZNOR HSC OR ACCEPTED EQUAL.	
	<u> </u>	L			<u> </u>		<u> </u>	
l				ı	INIT I	HFATI	ER SCHEDULE	
				,		16/ \ 16	-IV OOHEDOLL	
1	L	ELECTRICA						
MARK	WAT	TS VOLT	PHASE	REM	ARKS			
UH-1	200	0 208	1	ELEC	CTRIC UNI	T HEATER	R, WITH EXTERNAL WALL THERMOSTAT	
1	1	1	1	KING	KB SERI	ES OR A	CCEPTED EQUAL 3	
h~~	├ ~~	\leadsto	-	-	~~~	~~~	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	
UH-2	500	0 277	1	ELEC	CTRIC UNI	T. HEATER	R, WITH EXTERNAL WALL THERMOSTAT	λ

		KI	NG KB SERIES OR	ACCEPTED EQU	AL		13
~		G	RILLE AND	DIFFUSE	R SCHEDUL	E	
	CFM OR	STATIC	INLET OR NECK	FRAME	BASIS		T
MARK	APPLICATION	PRESSURE	SIZE	SIZE	FOR DESIGN	STYLE	REMARKS
							1
SD-1	50-125	.11 " WG	6" X 6"	12" x 12"	PRICE	SMCD	1, 3, 7
S0-2							NOT USED
SD-3	176-275	.07" WG	10"X10"	24" X 24"	PRICE	SMCD	1, 3, 7
SD-4	276-400	.07" WG	12"X12"	24" X 24"	✓ PRICE	SMCD	1, 3, 7
SD-5	400	.03" WG	~~~~	~44VX/44~	SEIHO	NTX-12	1, 3, 7
SD-6	1600	.03" WG /	22" X 36"	24" X 38"	PRICE	CVD	1, 3, 7
SD-7	600 - 700	.09" WG	THE RIVE		PRICE	RCD	1, 3, 7
SD-8	250	.08" WG	1 AT 8" RND.	38" X 4"	PRICE	LBP 25C	1, 3, 6
SD-9	400	.04" WG	4 AT 8" RND.	216" X 2.5"	PRICE	SDA50	1, 2, 3,10, 11
SD-10	1						NOT USED
SD-11	1000	.012"WG	12" x 30"	12" X 30"	PRICE	HCD	1, 3, 7
SD-12	125	.08" WG	10° RND.		PRICE	RCD	1, 3, 7
SD-13	FTR-1	_	_	312" X 4"	PRICE	LBP 15A	6, 8
SD-14	FTR-2	_	_	312" X 4"	PRICE	LBP 15A	6. 8
SD-15	FTR-3			312" X 4"	PRICE	LBP 15A	6. 8
SD-16	FTR-4	-	_	312" X 4"	PRICE	LBP 15A	6, 8
SD-17	FTR7	-	-	210" X 4"	PRICE	LBP 15A	6, 8
SD-18	FTR-8	-	,	624" X 4"	PRICE	LBP 15A	6, 8
SD-19	500	.09" WG	12" RND.		PRICE	RCD	1, 3, 7
RG-1							NOT USED
RG-2	1600	.040" WG	30" X 22"	30" X 22"	PRICE	630	1, 3, 7
RG-3	2000	.040" WG	36" X 24"	36" X 24"	PRICE	630	1, 3, 7
RG-4	50 250	.040" WG	10" X 10"	12" X 12"	PRICE	PDR	1, 3
RG-5	2000	.020" WG	58"X22"	60"X24"	PRICE	LBPH 25C	3, 6
RG-6	50 250	.040" WG	10" X 10"	12" X 12"	PRICE	PDR	1, 3
RG-7 RG-8	150-300 350	.034" WG	10" X 10" -~218" 25" ~~	24" X 24"	PRICE	PDR	1, 3
RG-9	2000	.04 WG /	240 X 10	242" X 12"	PRICE	SDR 50 630	1, 2, 3, 10
RG-10	1200	.025" WG	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	PRICE	530	1, 3, 7, 70
RG-11	8000	.035" WG	40"X84"	43"X87"	PRICE	96	1, 3, 7
RG-12	8000	.035" WG	40"X104"	43"X107"	PRICE	96	1, 3, 7
RG-13	1200	.055 WG	72" X 8"	72" X 8"	PRICE	LBP 25C	1,3,6
RG-14	1600-2000	.01" WG	58"X44"	60"X46"	PRICE	LBPH 25C	3, 6
RG-15	125	.04" WG	150" X 2.5"		PRICE	SDR 50	1. 2. 3. 10
				·	11100	3011 30	1 ., 2, 0, 10
EG-1	50 250	.040" WG	10" X 10"	12" X 12"	PRICE	PDR	1.3
EG-2	150-300	.034" WG	10" X 10"	24° X 24°	PRICE	PDR	1.3
EG-3	8000	.035" WG	64" X 48"	64" X 48"	PRICE	96	1, 3
	·····		·	·	·		

- 1. DUCT CONNECTION TO DIFFUSER, REGISTER OR GRILLE SHALL BE MINIMUM SCHEDULED NECK SIZE.
 PROVIDE TRANSITION FROM DUCT SIZE INDICATED ON PLAN TO GRILLE, REGISTER OR DIFFUSER AS REQUIRED.

 2. MAKE CONTINOUS GRILLE PER ARCHITECT PLANS, WITH INACTIVE SECTIONS.

 3. COORDINATE THE FINAL LOCATION WITH ARCHITECT.

 4. PROVIDE WITH FABRIC BACKDRAFT DAMPER

 5. SEE ARCHITECTURAL PLANS FOR BREAK LOCATIONS IN LINEAR GRILLES.

 6. PROVIDE GRILLE WITH BRUSHED ALUMINUM STANDARD FINISH.

 7. STANDARD PAINTED FINISH, COORDINATE COLOR WITH ARCHITECT.

 8. GRILLE COVER FOR FINNED TUBE RADIATOR IN ARCHITECTURAL ENCLOSURE. SEE DETAIL 6/M6.3. ESTIMATE LENGTH FROM THE DRAWINGS FOR BIDDING AND FIELD VERIFY ACTUAL LENGTH PRIOR TO ORDERING.

 9. PROVIDE EXTERIOR GRILLE WITH BUG SCREEN.

 10. ESTIMATED DIMENSIONS, FIELD VERIFY SIZE PRIOR TO ORDERING.

 11. PROVIDE SHOP FABRICATED PLENUM TO ALLOW CLEARANCE FOR DUCTWORK, REFER TO DRAWINGS.

. PROVIDE WITH CUSHIONED BACKDRAFT DAMPER.

		STATIC	THROAT	CURB	BASIS		
MARK	CFM	PRESSURE	SIZE	SIZE	FOR DESIGN	STYLE	REMARKS
RV-1	1600-2000	0.035	30"X22"	38"X30"	GREENHECK	WRH	
RV-2	3200	0.05	36"X24"	44"X32"	GREENHECK	WRH	1
RV-3	8000	0.024	48"X64"	56"X72"	GREENHECK	WRH	1
₹V-4	3200	0.03	48"X32"	56"X40"	GREENHECK	WIH	
₹V-5	150	0.008	12"X12"	20"X20"	GREENHECK	WIH	1
₹V-6	2000	0.024	36"X24"	44"X32"	GREENHECK	WRH	1
RV-7	200	0.024	16"X32"	24"X40"	GREENHECK	WRH	1

EMARKS 2,3,4,5 2,3,4,5		AIR COOLED FLUID CHILLEN. 80 TON NOMINAL CAPACITY, 95 DEGREE CONDENSER ENTERING AIR TEMPERATURE, 44 DEGREE LEAVING SOLUTION TEMPERATURE, 20 PERCENT PROPYLENE GLYCOL SOLUTION. RECIP. COMPRESSOR, R-22 REFRIGERANT, 155 GPM COOLER FLOW VOLUME, 15.3 FEET HEAD PRESSURE DROP, 9.4 EER, 152 AMP MINIMUM CIRCUIT AMPACITY, 200 AMP MAXIMUM OVERCURRENT PROTECTION, 460 VOLT, 3 PHASE. CONTROL POWER CIRCUIT, 120 VOLT, 1 PHASE. WEIGHT: 6,000 POUNDS. AS MANUFACTURED BY CARRIER, 30GTRO60 OR BY PRIOR APPROVAL. NOTE: CHILLER RATED AT ARI STANDARD CONDITIONS.
2,3,4,5 2,3,4,5		WATER HEATING AND CIRCULATION EQUIPMENT
2,3,4,5	MARK	REMARKS
.2,3,4,5 .2,3,4,5 .2,3,4,5 .2,3,4,5 .2,3,4,5 .2,3,4,5,6 .2,3,4,5,6	B-1, B-2	NATURAL GAS FIRED HOT WATER HEATING BOILER. CAST IRON SECTIONAL BOILER WITH FULL MODULATION POWER BURNER. ELECTRONIC INTERMITTENT IGNITION, LOW WATER CUT OFF WITH MANUAL RESET, DOUBLE HIGH TEMPERATURE LIMIT CONTROLS. 491 MBH IN, 396 MBH OUT. 120 VOLT, 1 PHASE. BOILER: WEIL MCLAIN 480 OR ACCEPTED EQUAL. BURNER: GORDON PIATT, 1/3 HORSEPOWER, 120 VOLT, 1 PHASE.
	P-1, 2	INLINE HEATING WATER BOILER CIRCULATION PUMP, 40 GPM, 15 FEET TDH, 1750 RPM, 1/2 HP, 120 VOLT, 1 PHASE AS MANUFACTURED BY ARMSTRONG, BELL AND GOSSETT, TACO OR ACCEPTED EQUAL.
	HWP-1	BASE MOUNTED DUAL VERTICAL INLINE HEATING WATER CIRCULATION PUMP, 80 GPM, 60 FT. TDH, 1750 RPM, 5 HORSEPOWER, 460 VOLTS, 3 PHASE. BRONZE IMPELLER, CAST IRON VOLUTE. FURNISH WITH SUCTION DIFFUSER WITH STRAINER AND TRIPLE DUTY VALVE. MAXIMUM SUCTION DIFFUSER PRESSURE DROP: 2.3 FT HD. BASIS FOR DESIGN: ARMSTRONG DUAL ARM
	CWP-1	BASE MOUNTED VERTICAL INLINE CHILLED WATER CIRCULATION PUMP, 155 GPM, 70 FT. TDH, 1750 RPM 7.5 HORSEPOWER, 460 VOLTS, 3 PHASE. BRONZE IMPELLER, CAST IRON VOLUTE. FURNISH WITH SUCTION DIFFUSER WITH STRAINER AND TRIPLE DUTY VALVE. MAXIMUM SUCTION DIFFUSER PRESSURE DROP: 2.3 FT HD. BASIS FOR DESIGN: ARMSTRONG ACCEPTED ALTERNATES: TACO, BELL AND GOSSETT, TACO.
		DOMESTIC HOT WATER CIRCULATION PUMP, IN-LINE BRONZE FITTED, 12 GPM, 20 FT. HEAD, 1/2 HP, 120 VOLT, 1 PHASE. AS MANUFACTURED BY ARMSTRONG, BELL AND GOSSETT, TACO OR ACCEPTED EQUAL.
	AS -1	AIR SEPARATOR, 4" ARMSTRONG, BELL AND GOSSET, TACO OR ACCEPTED EQUAL.
	AS -2	AIR SEPARATOR, 3" ARMSTRONG, BELL AND GOSSET, TACO OR ACCEPTED EQUAL.
NDOOR REMOTE ATCHING	ET-1	EXPANSION TANK, 33 GALLON VERTICAL BLADDER TYPE, W/ 11 GALLON ACCEPTANCE VOLUME W/ AIR CONTROL VALVE. ASME RATED. ARMSTRONG, BELL AND GOSSETT, TACO OR ACCEPTED EQUAL.

CHILLER SCHEDULE

				EXH	AUS1	FAN SCHEDULE
		EXTERNAL	E	ECTRICA	L	
MARK	CFM	STATIC PRESSURE	HP/WATTS	VOLTS	PHASE	REMARKS
EF-1	1400	.5* W.G.	1/2	120	1	CENTRIFUGAL INLINE BELT DRIVE FAN, BACKDRAFT DAMPER. GREENHECK BSQ-130 OR ACCEPTED EQUAL
EF-2	150-200	.25" W.G.	1/4	120	1	CENTRIFUGAL INLINE BELT DRIVE FAN, BACKDRAFT DAMPER. GREENHECK BSQ-70 OR ACCEPTED EQUAL
EF-3	1000	.25" W.G.	1/4	120	1	ROOF EXHAUST FAN, BACKDRAFT DAMPER. GREENHECK GB-140 OR ACCEPTED EQUAL
EF-4	100	.25" W.G.	1/60	120	1	ROOF EXHAUST FAN, BACKDRAFT DAMPER AND SPEED CONTROL. GREENHECK G-060 OR ACCEPTED EQUAL
EF-5	100	.25" W.G.	108W	120	1	CEILING MOUNTED BATHROOM EXHAUST FAN. PROVIDE WITH SPEED CONTROL AND BACKDRAFT DAMPER. PENN ZEPHYR ZG OR ACCEPTED EQUAL.

EXPANSION TANK, 44 GALLON VERTICAL BLADDER TYPE , W/ 22 GALLON ACCEPTANCE VOLUME W/ AIR CONTROL VALVE. ASME RATED. ARMSTRONG, BELL AND GOSSETT, TACO OR ACCEPTED EQUAL.

GLYCOL FEEDER, 50 GALLON, 120V 1/3HP PUMP. WINGERT GL50-E1 GLYCOL FEED SYSTEM OR EQUAL.

YPASS FEEDER, FLAT BOTTOM STYLE. 5 GALLON CAPACITY. WINGERT OR EQUAL.

ITEM	EQUIPMENT	POW	FR	Γ		CON	ROL F	DUIPME	VT			REMA
NO.	DESCRIPTION	VOLTS	PH	PROVE	ED BY		TALLED			RED BY	/	********
''•	DECOME NOW	100.0	'''		FLEC		ELEC			ELEC		
AHU~1	AIR HANDLING UNIT	460	3	X	LLL	X	Luce	1.0.0	MLC.	X	1.77	
AHU-2	AIR HANDLING UNIT	460	3	l û	 	Ŷ	<u> </u>	├		 x	 	├── ╁
FC-1	FAN COIL UNIT	460	3	 x	 	Ŷ		 		ŀŵ−	 	
FC-2	FAN COIL UNIT	460	3	 x	 	- x		 		 x 	 	
FC-3	FAN COIL UNIT	460	3	-		Ŷ		 		-		
FC-4	FAN COIL UNIT	460	3	-	 	Ŷ		 	 	-	<u> </u>	
FC-5	FAN COIL UNIT	460	3	-	ļ	Ŷ			 	 Ŷ	-	
FC-6	FAN COIL UNIT	460	3	Î		Ŷ.				 	 	
FC-7	FAN COIL UNIT	460	3	 x		Ŷ			ļ	- -	 	1
FC-8	FAN COIL UNIT	460	3	- x		Ŷ			ļ	- -	 	
FC-9	FAN COL UNIT	460	3	Ŷ		Ŷ	-		 	- x	 	
FC-10	FAN COIL UNIT	460	3	- x		Ŷ				Ŷ	-	
FC-11	FAN COIL UNIT	460	3	 x		Ŷ				-		
↑ FC-12	FAN COIL UNIT	460	3	 x		x				- -		 ;
1) CHILLERY	AIR GOOLED CHILLER	450	-3-	<u> </u>						灬		~~\frac{1}{2}
HEAT TRACE	CHILLER HEAT TRACE	120	m	V	\sim	\sim	YY	XX	A A	X	\sim	Y Y <u>3</u>
THE STATE OF THE S	WAS INDOOR WHIT	1208V	*	-Ĉ	\sim	NO.	\sim	-			\sim	
AC1	AC OUTDOOR UNIT	208	1	x		x				×		3
EF-1	EXHAUST FAN	120	1	X		·X				X		2
EF-2	EXHAUST FAN	120	1	X		X				X		2
EF-3	EXHAUST FAN	120	1	X		X				X	1	2
EF-4	EXHAUST FAN	120	1	X		X	***************************************			X		2
EF-5	EXHAUST FAN	120	1	X		X				X		2
· UH-1	UNIT HEATER	208	1	X		X				X		2
B-1	NATURAL GAS BOILER	120	1	X		Х				X		3
	BOILER BURNER	120	1	X		Х				X		3
B-2	natural gas Boiler	120	1	Х		X				X		3
	BOILER BÜRNER	120	1	X		Х				X		3
HWP-1	DUEL HEATING WATER PUMP	460	3	X		X				X		1
HWP-1	DUEL HEATING WATER PUMP	460	3	X		X				X		1
CWP-1	CHILLED WATER PUMP	460	3	Х		Х				Х		1
P1	HEATING WATER PUMP	120	1	X		X				X		1
P-2	HEATING WATER PUMP	120	1	X		X				X		1
KWH-1	KITCHEN HOT WATER HEATER	120	1	X		X				X		2
KWHCP-1	KWH CIRC PUMP	120	1	X		X				X		2
DWH-1 DWHCP-1	DOMESTIC HOT WATER	120	1	X	-	X				X		2
DWH-2	DWH-1 CIRC PUMP DOMESTIC WATER HEATER	240	 - -	-		X				Ŷ		- 2
DWHCP-2	DWH-2 CIRC PUMP	120	╁	-	ļ	X				- x		
GF-1 (TYP OF 2)	GAS FIRED DUCT HEATER	120	1-	-		×		-		Ŷ		3
01 1 (111 01 2)	GLYCOL FEEDER	120	1	Î Î		Ŷ				Ŷ		<u> </u>
MUAU-1	MAKE UP AIR UNIT SUPPLY	208	1 3	 		- x				Ŷ		l j
MUAU-1	MAKE UP AIR UNIT EXHAUST	208	3	 x		Ŷ				- ŷ -		
KEF-1	KITCHEN EXHAUST FAN	208	3	- x -		Ŷ				Ŷ	-	3
INSTAHOT	SINK	120	Ť	Ŷ		x				x		1
GARBAGE	SINK	120	1	 x		Ŷ				x	-	
DISPOSAL		 										
DDC	TEMPERATURE CONTROL	120	1		X		X			X		3
COMPRESSOR	DRY SPRINKLER RISER	120	1	<u>' x '</u>	<u> </u>	×		<u>'</u>	''	$\frac{x}{x}$	- 1	7
GLYCOL FEEDER	GLYCOL FEEDER	120	+	$\frac{\hat{x}}{x}$		- x				$\hat{\mathbf{x}}$		

NOTES:

1. COMBINATION MOTOR STARTER DISCONNECT
2. CONTROL CONTACTOR AND DISCONNECT SWITCH
3. DISCONNECT SWITCH
4. VARIABLE FREQUENCY DRIVE — VFD
5. PROVIDE FOR SUPPLY AND RETURN FAN
6. COORDINATE WITH CONTROL CONTRACTOR
7. LOCKING DISCONNECT SWITCH

ET-2

KITCHEN EXHAUST FAN VOLTS PHASE REMARKS
208 3 TYPE II KITCHEN EXHAUST FAN WITH ROOF CURB, GREENHECK 101-4 OR ACCEPTED EQUAL. MILLER HULL

Polson Building 71 Columbia Sixth Floor Seattle, WA 98104 Phone 206.682.6837 Fax 206.682.5692

THE GREENBUSCH GROUP, INC.

ACOUSTICAL, AUDIO / VIDEO & MECHANICAL ENGINEERING 1900 WEST MICKERSON STREET SUITE 201 SEATTLE, WA 98119 (208) 378-0569 (208) 378-0641 FAX

CONSULTANTS

CIVIL ENGINEER SvR Design Co. 815 Western Avenue, #400 Seattle, WA 98104

LANDSCAPE

The Portico Group 217 Pine Street, FI 2 Seattle, WA 98101

MERCER

AT

STRUCTURAL ENGINEER Armour Unsderfer Engineering LLC 13456 SE 27th Place, Suite 200, Bellevue, WA 98005

MECHANICAL & ACOUSTICAL The Greenbusch Group 1900 W. Nickerson Street, Suite 201, Seattle, WA 98119

ELECTRICAL ENGINEER

FOOD FACILITIES PLANNING Food Service Design INC. 4205 148th Ave. N.E., Suite 101, Bellevue, WA 98007

interior design

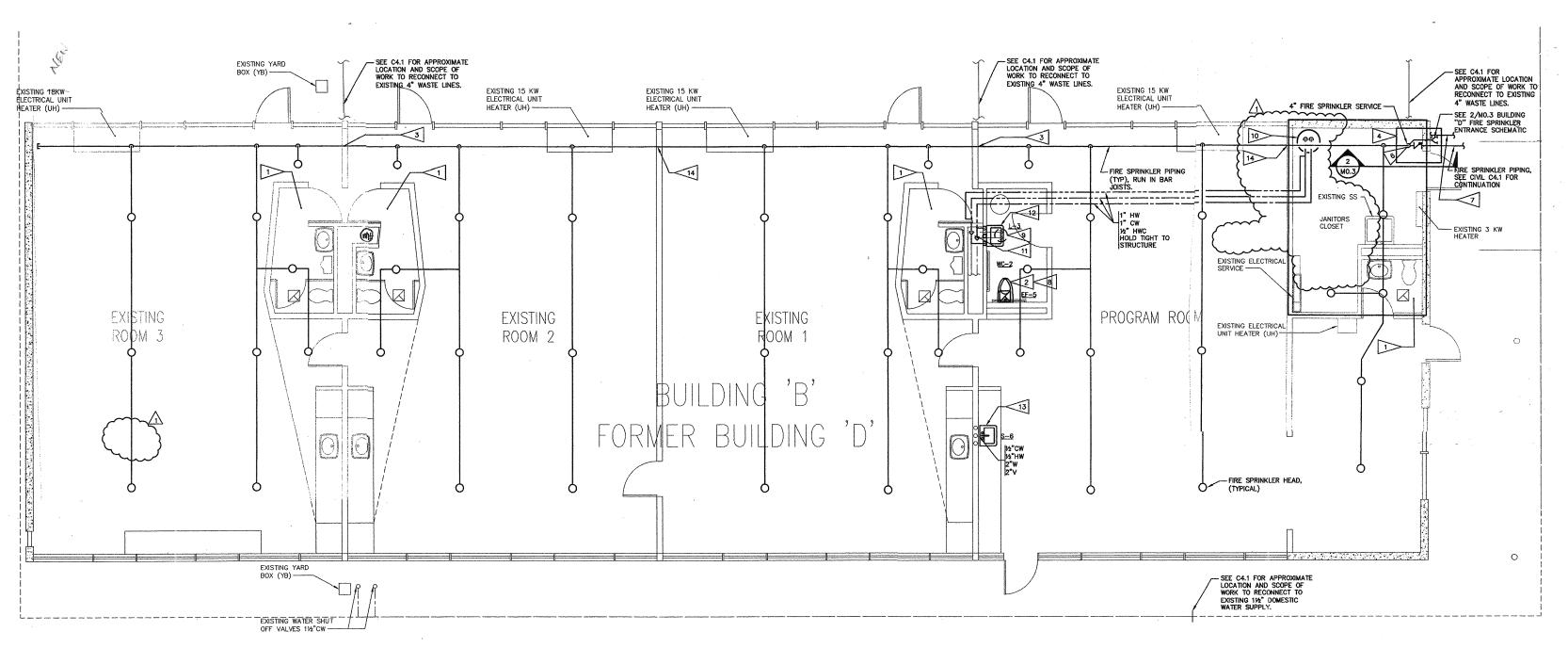
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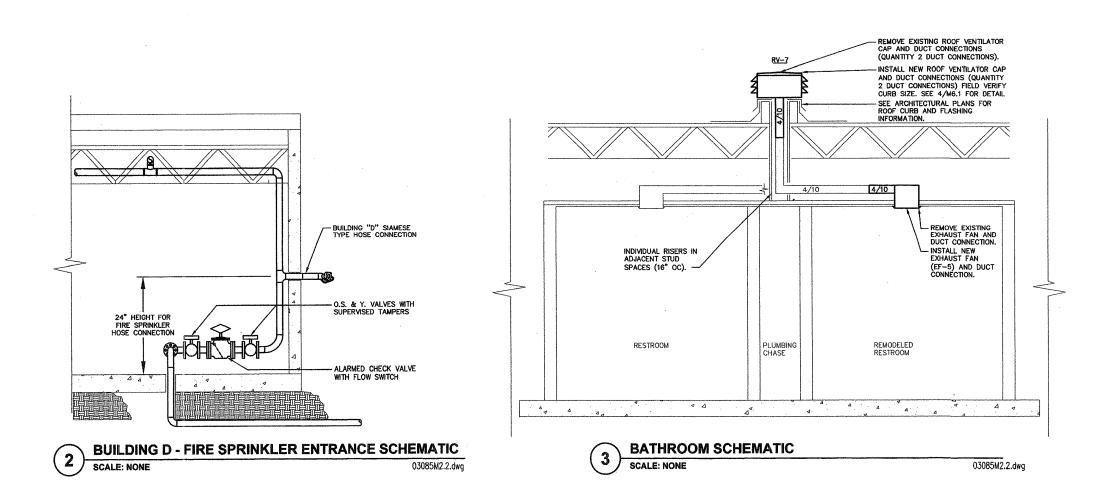
SCHEDULES



BUILDING D - MECHANICAL PLAN

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

03085M2.2.dwg



DRAWING NOTE:

BUILDING "D" SHALL BE FULLY SPRINKLED, PIPING ARRANGEMEN INDICATED IS DIAGRAMMATIC. PIPING DESIGN SHALL BE BY FIRE SPRINKLER CONTRACTOR. SEE SPECIFICATION SECTION 15300.

FLAG NOTES:

1 NO MECHANICAL WORK IN THIS RESTROOM.

REMOVE EXISTING WC AND REPLACE WITH WC-2. RECONNECT TO EXISTING PLUMBING.

STUDWALL, CUT HOLE FOR 4" FIRE SPRINKLER PIPING, REPAIR TO MATCH EXISTING WALL SURFACE.

SAW CUT SLAB, AND EXCAVATE. EXCAVATE UNDER SLAB AND FOOTING AS NECESSARY TO INSTALL FIRE SPRINKLER PIPING. FILL AND REPAIR TO MATCH EXISTING.

5 NOT USED

6 PER CITY OF MERCER ISLAND FIRE MARSHALL, ROD MANDERY, BUILDING D SHALL BE A ZONE OF THE MAIN BUILDING. BUILDING D MILL NOT REQUIRE ITS OWN SERVICE. BUILDING D WILL ALL BE SERVED FROM THE MAIN BUILDING FIRE SPRINKLER SUPPLY, BUILDING D WILL REQUIRE ITS OWN SIAMESE CONNECTION. ALSO SEE 2/MO.3.

7 SEE C4.1 FOR APPROXIMATE LOCATION AND SCOPE OF WORK TO RECONNECT TO EXISTING 1.5" WATER PIPING. (NO MECHANICAL WORK. ALL WORK PROVIDED BY CIVIL CONTRACTOR.)

8 REMOVE EXISTING EXHAUST FAN. PROVIDE NEW EXHAUST FAN AND DUCT CONNECTIONS. SEE 3/M0.3 BATHROOM SCHEMATIC.

9 REMOVE EXISTING WATER HEATER.

10 INSTALL A NEW DWH-2. SEE 3/M6.4 DOMESTIC ELECTRIC WATER HEATER DETAIL.

11 POC TO EXISTING 1" HW AND CW PIPING. CONNECT L-3 TO ADJACENT LAVATORY RISERS. 12" CW, 12" HW, 2" W AND 2" V.

REMOVE EXISTING SINK. INSTALL S-6 SINK ADDITION TO BE CONNECTED TO EXISTING SINK SERVICE ON ADJACENT SINK RISERS

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Polson Building 71 Columbia Sixth Floor Seattle, WA 98104 Phone 206.682.6837 Fax 206.682.5692

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ACOUSTICAL, AUDIO / VIDEO & MECHANICAL ENGINEERING 1900 WEST NICKERSON STREET SUITE 201 SEATTLE, WA 98119 (206) 378-0869 (206) 378-0841 FAX

CONSULTANTS

CIVIL ENGINEER

SvR Design Co. 815 Western Avenue, #400 Seattle, WA 98104

LANDSCAPE

The Portico Group 217 Pine Street, FI 2 Seattle, WA 98101

STRUCTURAL ENGINEER Armour Unsderfer Engineering LLC 13456 SE 27th Place, Suite 200, Bellevue, WA 98005

MECHANICAL & ACOUSTICAL The Greenbusch Group 1900 W. Nickerson Street, Suite 201, Seattle, WA 98119

ELECTRICAL ENGINEER

R AT Sparling 720 Olive Way, Suite 1400 Seattle, WA 98115

CENTER UMENT - BID DOO FOOD FACILITIES PLANNING Food Service Design INC. 4205 148th Ave. N.E., Suite 101, Bellevue,

INTERIOR DESIGN Allbee Romein 911 Western Avenue

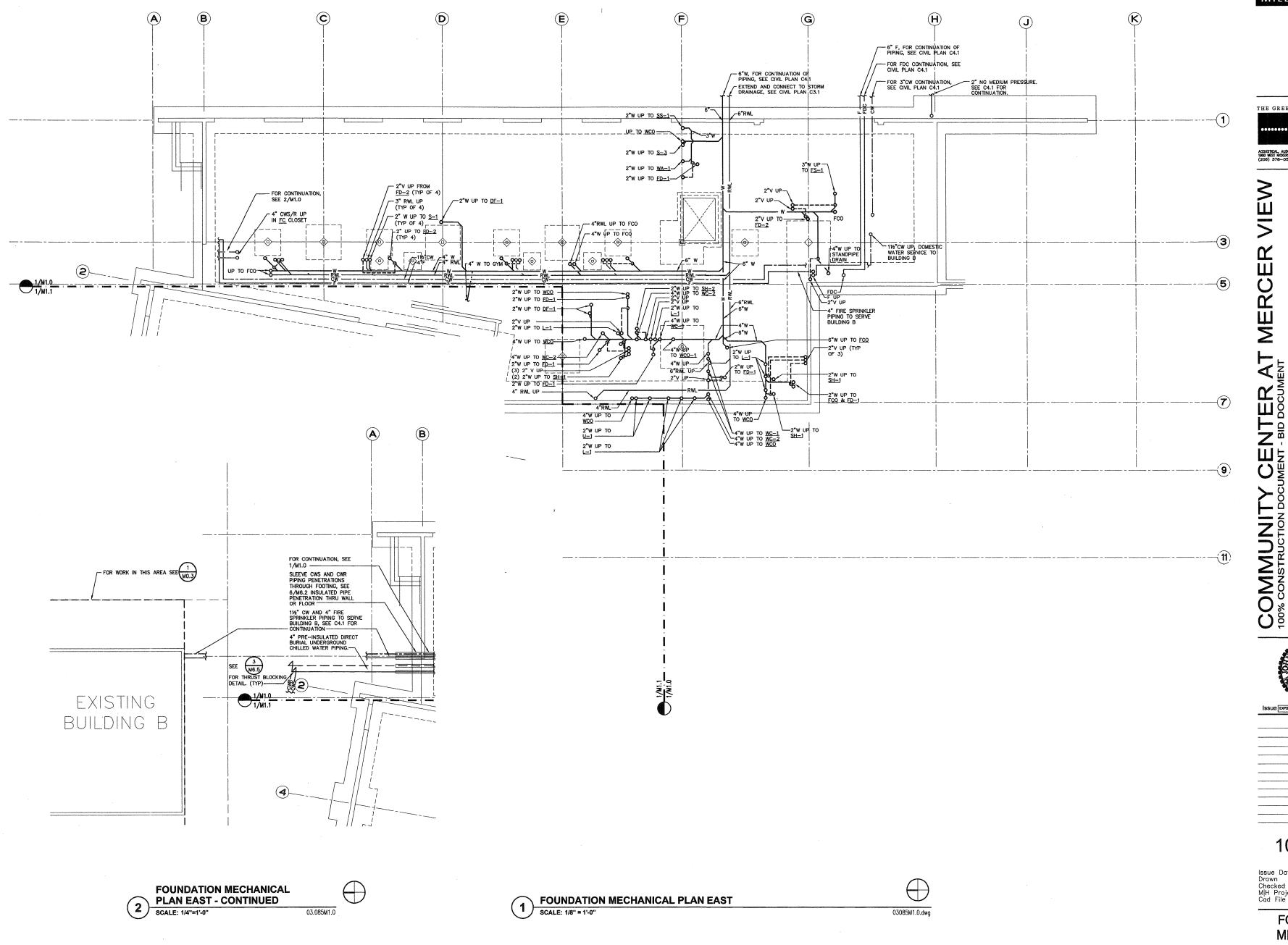
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> **BUILDING D MECHANICAL PLAN**

> > M0.3



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ACOUSTICAL, AUDIO / VIDEO & MECHANICAL ENGINEERING 1900 WEST HICKERSON STREET SUITE 201 SEATTLE, WA 98119 (206) 378-0589 (206) 378-0641 FAX

CONSULTANTS

CIVIL ENGINEER

SvR Design Co. 815 Western Avenue, #400 Seattle, WA 98104

The Portico Group 217 Pine Street, Fl 2 Seattle, WA 98101

STRUCTURAL ENGINEER Armour Unsderfer Engineering LLC 13456 SE 27th Place, Suite 200, Bellevue, WA 98005

MECHANICAL & ACOUSTICAL

The Greenbusch Group 1900 W. Nickerson Street, Suite 201, Seattle, WA 98119

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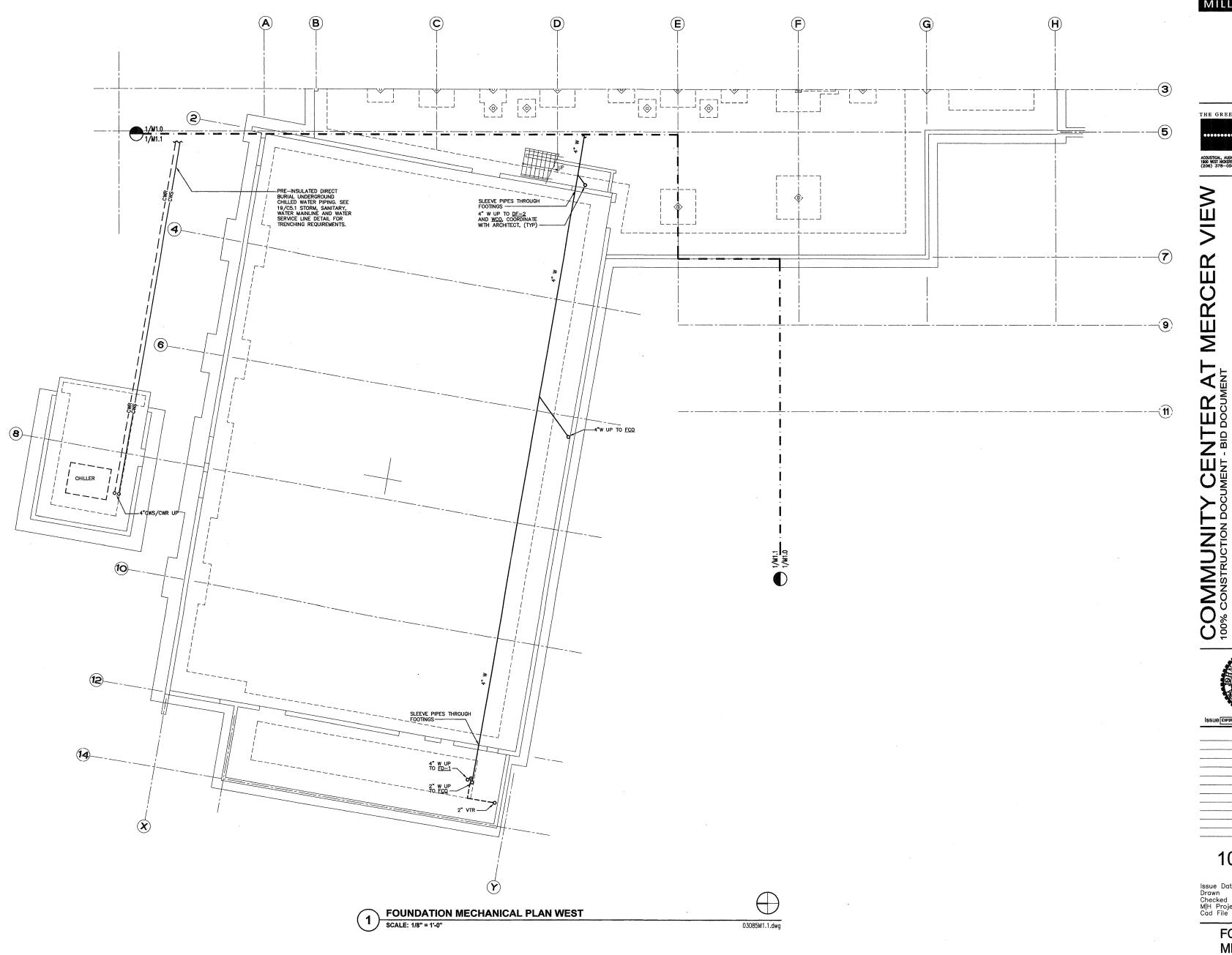
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INTERIOR DESIGN Allbee Romein 911 Western Avenue

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FOUNDATION MECHANICAL PLAN EAST

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Polson Building 71 Columbia Sixth Floor Seattle, WA 98104 Phone 206.682.6837 Fax 206.682.5692

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ACOUSTICAL, AUDIO / VIDEO & MECHANICAL ENGINEERING 1900 WEST NICKERSON STREET SUITE 201 SEATILE, WA 88119 (206) 378-0589 (208) 378-0641 FAX

CONSULTANTS

CIVIL ENGINEER
SVR Design Co.
815 Western Avenue, #400
Seattle, WA 98104

LANDSCAPE

The Portico Group 217 Pine Street, Fl 2 Seattle, WA 98101

STRUCTURAL ENGINEER

Armour Unsderfer Engineering LLC 13456 SE 27th Place, Suite 200, Bellevue, WA 98005

MECHANICAL & ACOUSTICAL

The Greenbusch Group 1900 W. Nickerson Street, Suite 201, Seattle, WA 98119

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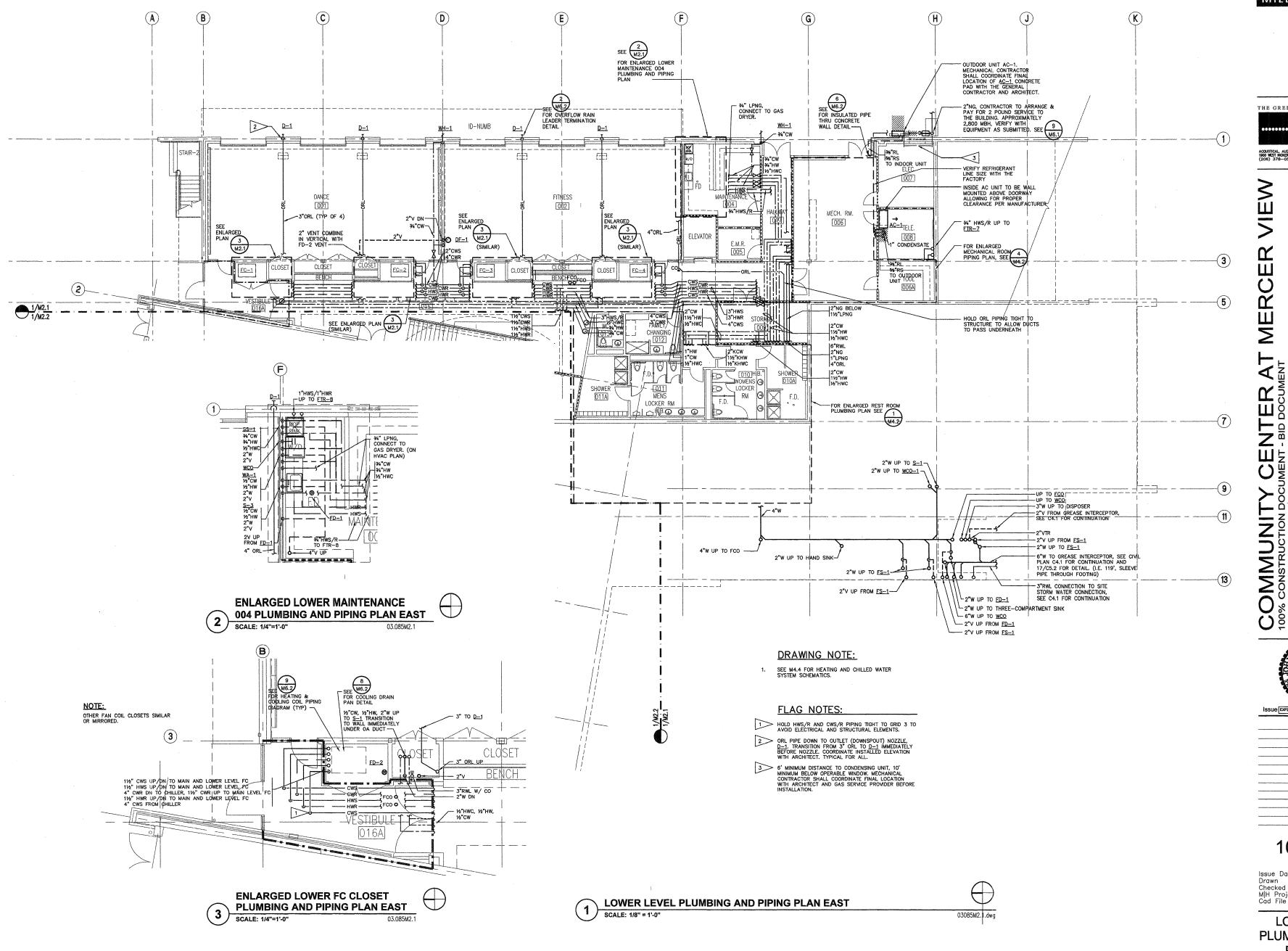
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FOUNDATION MECHANICAL PLAN WEST

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CONSULTANTS

CIVIL ENGINEER

SvR Design Co. 815 Western Avenue, #400 Seattle, WA 98104

LANDSCAPE

The Portico Group 217 Pine Street, Fl 2 Seattle, WA 98101

STRUCTURAL ENGINEER Armour Unsderfer Engineering LLC 13456 SE 27th Place,

Suite 200, Bellevue, WA 98005 MECHANICAL & ACOUSTICAL

The Greenbusch Group 1900 W. Nickerson Street, Suite 201, Seattle, WA 98119 ELECTRICAL ENGINEER

Sparling 720 Olive Way, Suite 1400 Seattle, WA 98115

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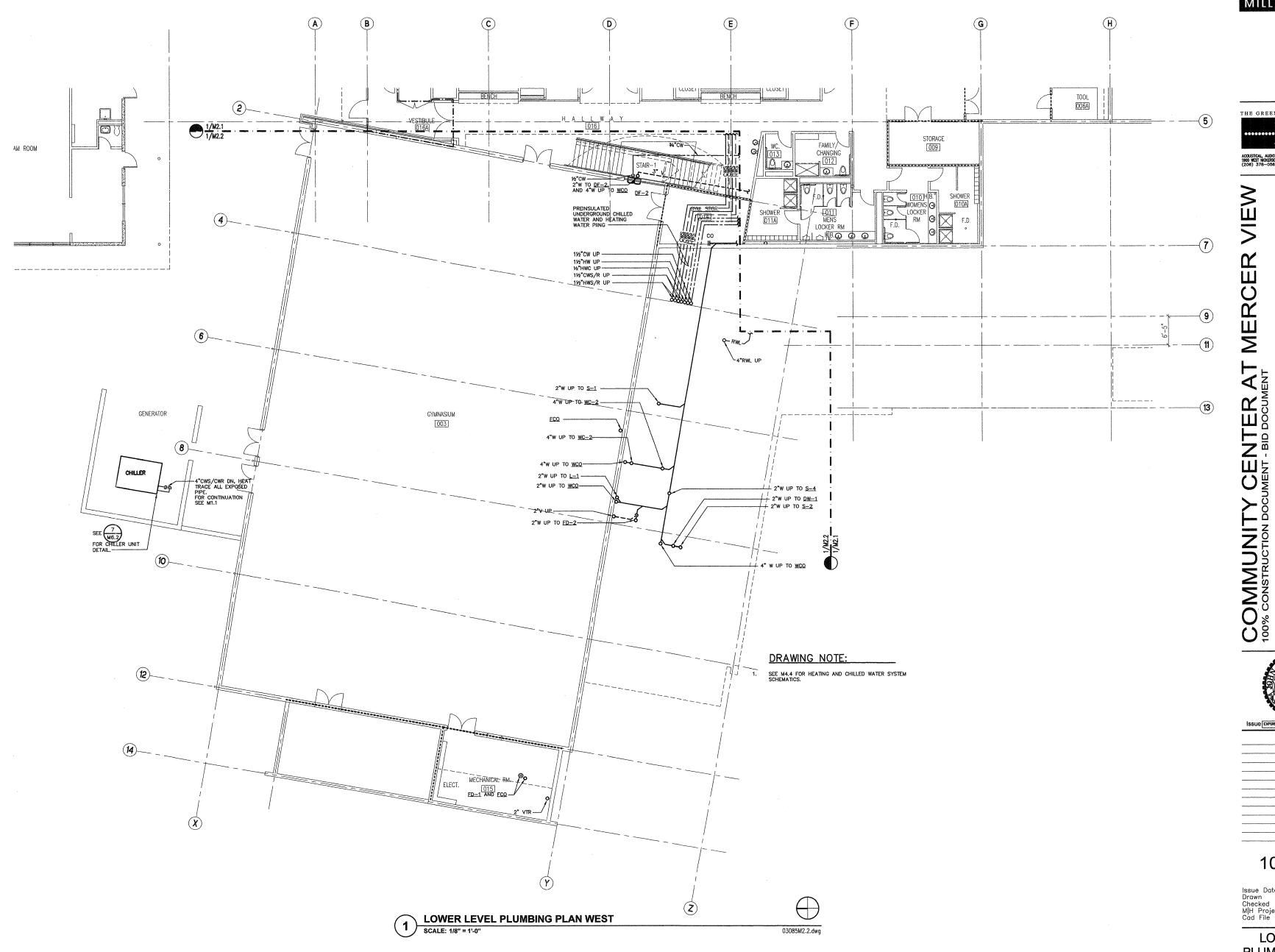
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ACOUSTICAL, AUDIO / VIDEO & MECHANICAL ENGINEERING 1900 WEST INCKERSON STREET SUITE 201 SEATTLE, WA 98119 (208) 378-0569 (208) 378-0641 FAX

CONSULTANTS

CML ENGINEER

SvR Design Co. 815 Western Avenue, #400 Seattle, WA 98104

LANDSCAPE

The Portico Group 217 Pine Street, FI 2 Seattle, WA 98101

STRUCTURAL ENGINEER Armour Unsderfer Engineering LLC 13456 SE 27th Place, Suite 200, Bellevue, WA 98005

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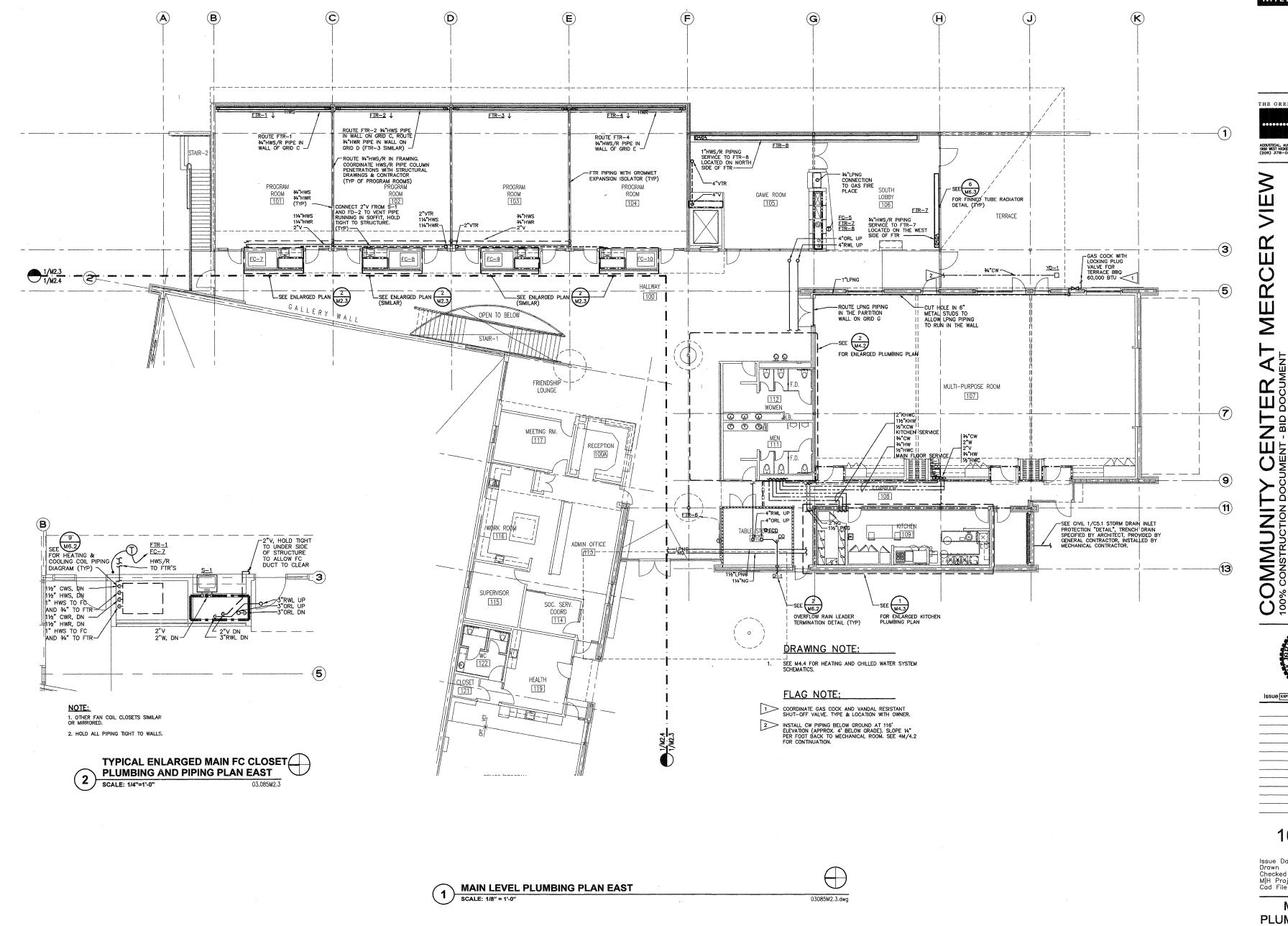
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LOWER LEVEL PLUMBING & PIPING **PLAN WEST**



The Miller Hull Partnership, LLF

Polson Building 71 Columbia Seattle, WA 98104 Phone 206.682.6837 Fax 206.682.5692

THE GREENBUSCH GROUP, INC.



ACOUSTICAL, AUDIO / VIDEO & MECHANICAL ENGINEERING 1900 WEST NICKERSON STREET SUITE 201 SEATTLE, WA 98119 (206) 378-0569 (206) 378-0641 FAX

CONSULTANTS

CIVIL ENGINEER SvR Design Co. 815 Western Avenue, #400 Seattle, WA 98104

LANDSCAPE

The Portico Group 217 Pine Street, FI 2 Seattle, WA 98101

STRUCTURAL ENGINEER

Armour Unsderfer Engineering LLC 13456 SE 27th Place, Suite 200, Bellevue, WA 98005

MECHANICAL & ACOUSTICAL The Greenbusch Group 1900 W. Nickerson Street, Suite 201, Seattle, WA 98119

ELECTRICAL ENGINEER Sparling 720 Olive Way, Suite 1400 Seattle, WA 98115

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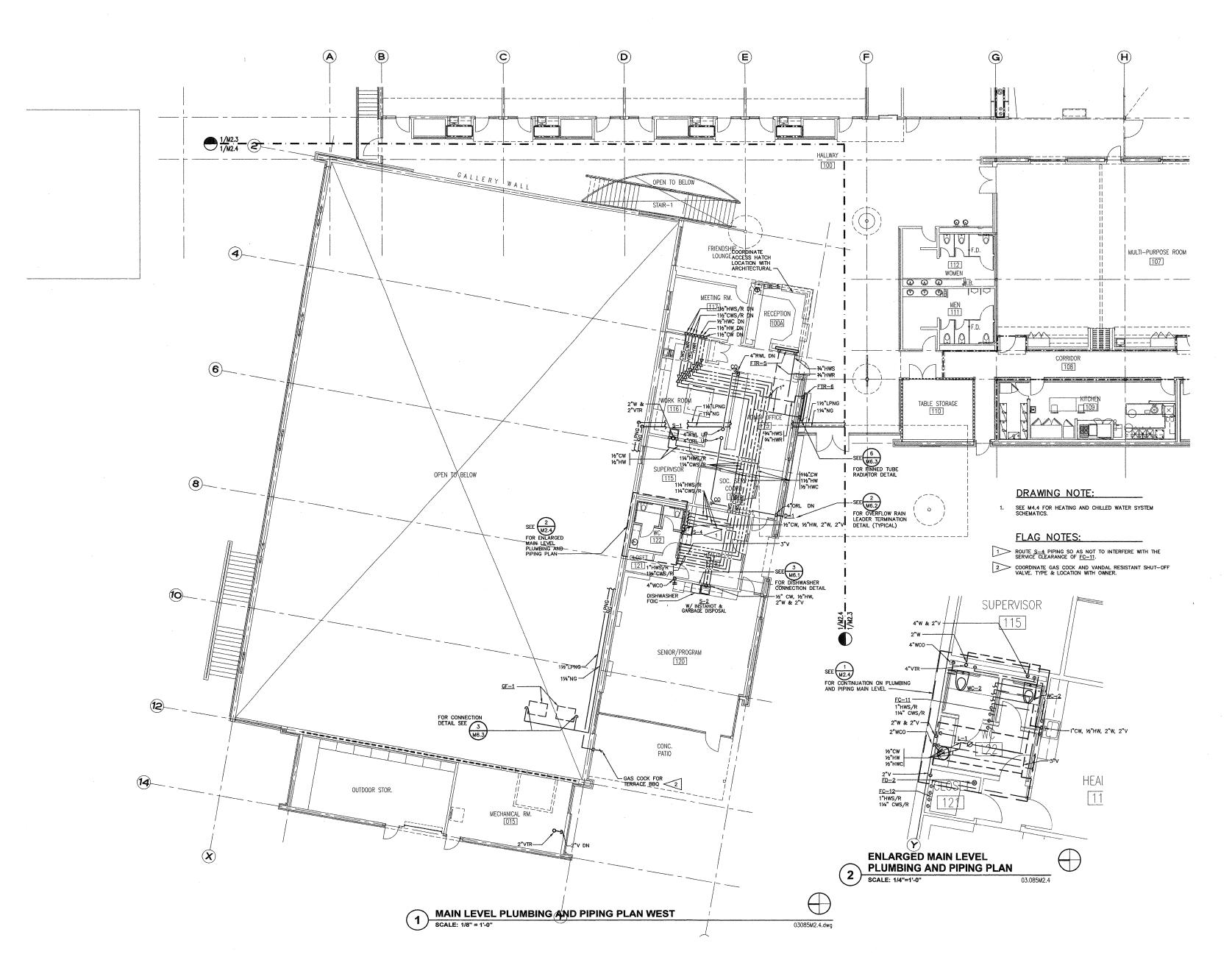
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Polson Building 71 Columbia Sixth Floor Seattle, WA 98104 Phone 206.682.6837 Fax 206.682.5692

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ACOUSTICAL, AUDIO / VIDEO & MECHANICAL ENGINEERING 1900 WEST NICKERSON STREET SUITE 201 SEATTLE, WA 98119 (206) 378-0569 (206) 378-0641 FAX

CONSULTANTS

CIVIL ENGINEER

SvR Design Co. 815 Western Avenue, #400 Seattle, WA 98104

LANDSCAPE

The Portico Group 217 Pine Street, FI 2 Seattle, WA 98101

STRUCTURAL ENGINEER Armour Unsderfer Engineering LLC 13456 SE 27th Place, Suite 200, Bellevue, WA 98005

MECHANICAL & ACOUSTICAL The Greenbusch Group 1900 W. Nickerson Street, Suite 201, Seattle, WA 98119

ELECTRICAL ENGINEER

Sparling 720 Olive Way, Suite 1400 Seattle, WA 98115

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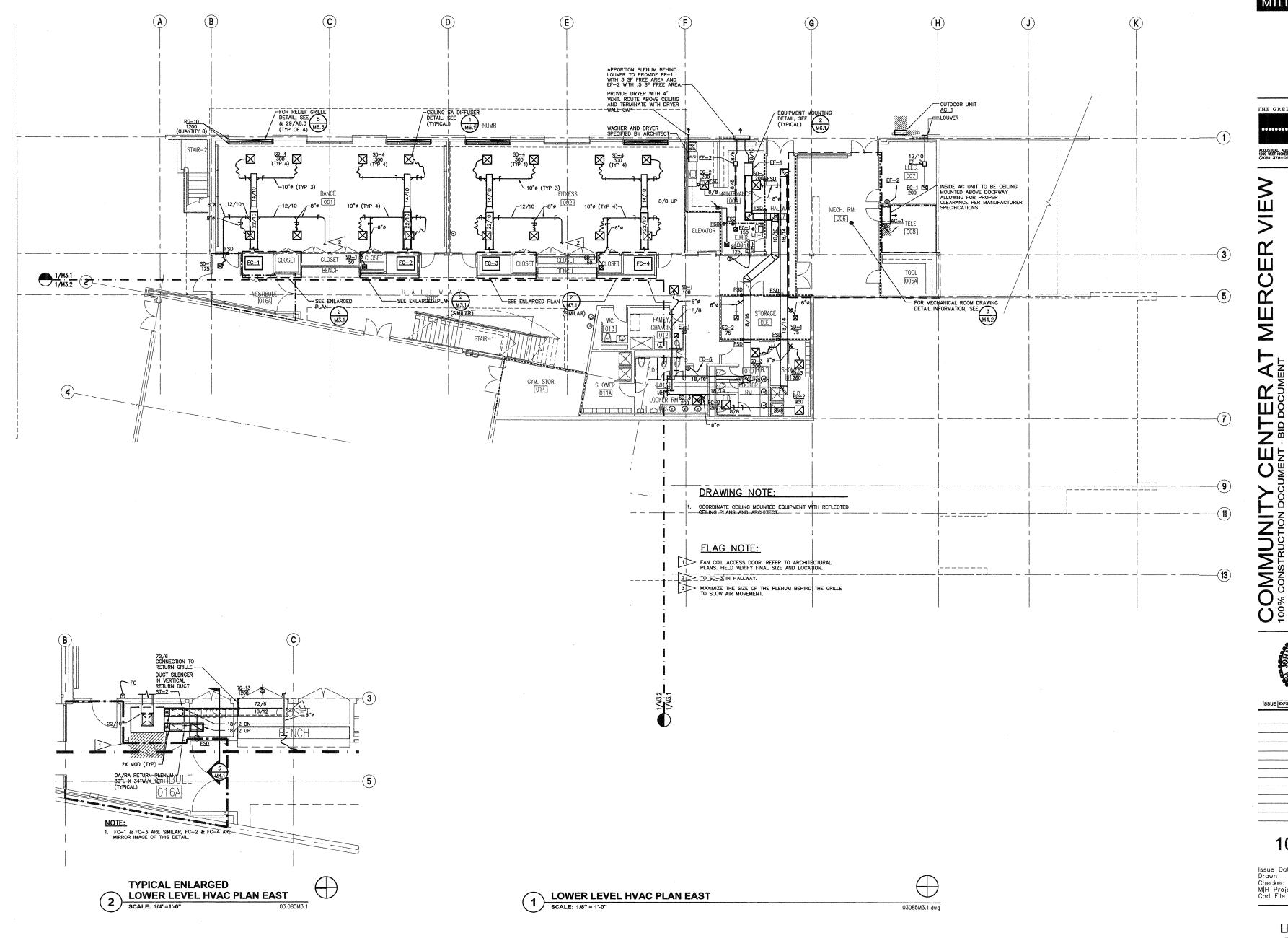
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ACOUSTICAL, AUDIO / VIDEO & MECHANICAL ENGINEERING 1900 WEST MCKERSON STREET SUITE 201 SEATTLE, WA 98119 (206) 378-0569 (206) 378-0641 FAX

CONSULTANTS

LANDSCAPE

The Portico Group 217 Pine Street, FI 2 Seattle, WA 98101

STRUCTURAL ENGINEER

Armour Unsderfer Engineering LLC 13456 SE 27th Place, Suite 200, Bellevue, WA 98005

MECHANICAL & ACOUSTICAL The Greenbusch Group 1900 W. Nickerson Street, Suite 201, Seattle, WA 98119

ELECTRICAL ENGINEER

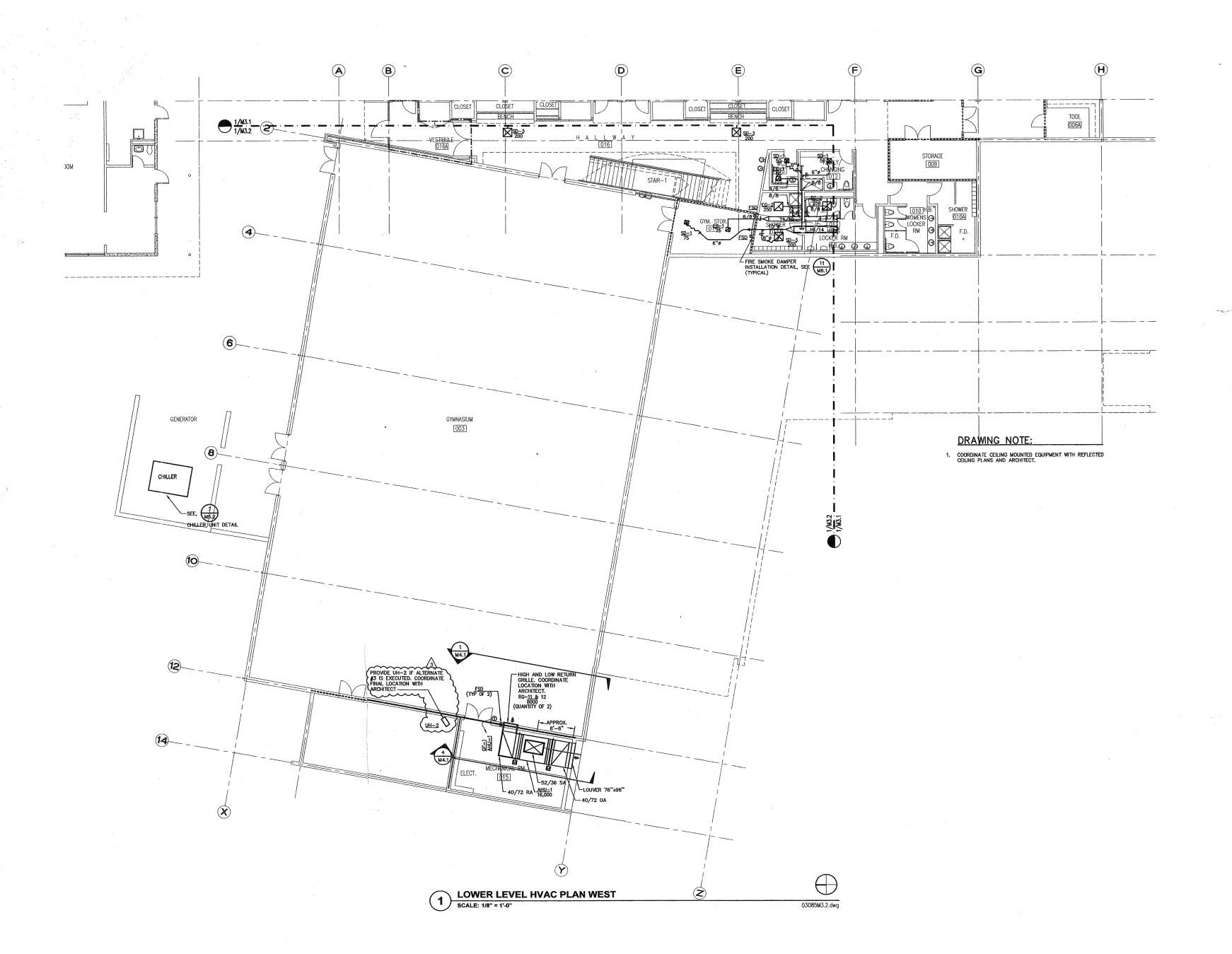
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LOWER LEVEL HVAC PLAN EAST



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CONSULTANTS

VIEW CIVIL ENGINEER
SVR Design Co.
815 Western Avenue, #400
Seattle, WA 98104

The Portico Group 217 Pine Street, FI 2 Seattle, WA 98101

STRUCTURAL ENGINEER Armour Unsderfer Engineering LLC 13456 SE 27th Place, Suite 200, Bellevue, WA 98005

MECHANICAL & ACOUSTICAL The Greenbusch Group 1900 W. Nickerson Street, Suite 201, Seattle, WA 98119

ELECTRICAL ENGINEER

Sparling 720 Olive Way, Suite 1400 Seattle, WA 98115

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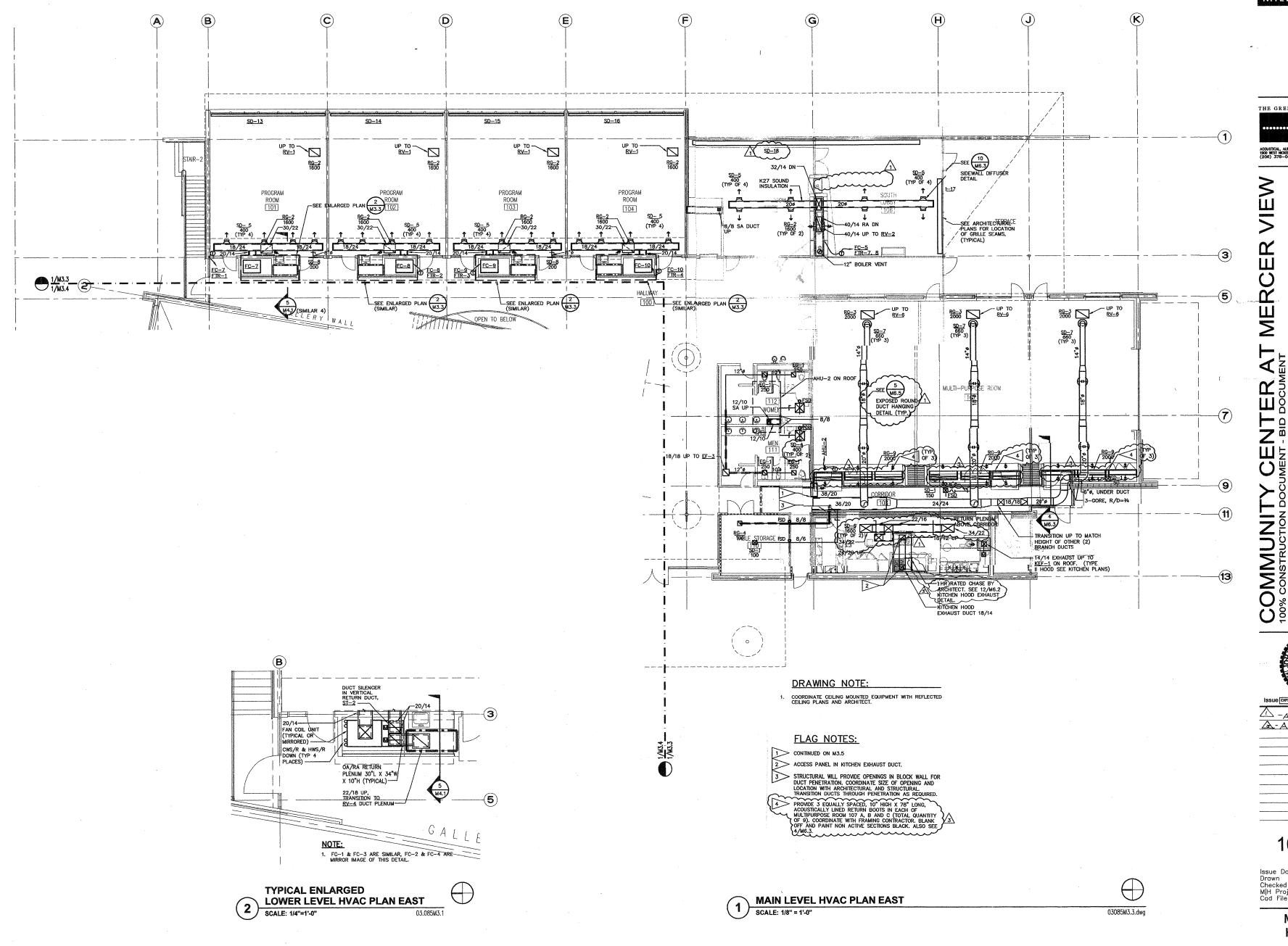
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LOWER LEVEL HVAC PLAN WEST



The Miller/Hull Partnership, LLP

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ACOUSTICAL, AUDIO / VIDEO & MECHANICAL ENGINEERING 1900 WEST NICKERSON STREET SUITE 201 SEATTLE, WA 98119 (208) 378-0569 (208) 378-0641 FAX

CONSULTANTS

LANDSCAPE

The Portico Group 217 Pine Street, FI 2 Seattle, WA 98101

STRUCTURAL ENGINEER

Armour Unsderfer Engineering LLC 13456 SE 27th Place, Suite 200, Bellevue, WA 98005

MECHANICAL & ACOUSTICAL The Greenbusch Group 1900 W. Nickerson Street, Suite 201, Seattle, WA 98119

ELECTRICAL ENGINEER

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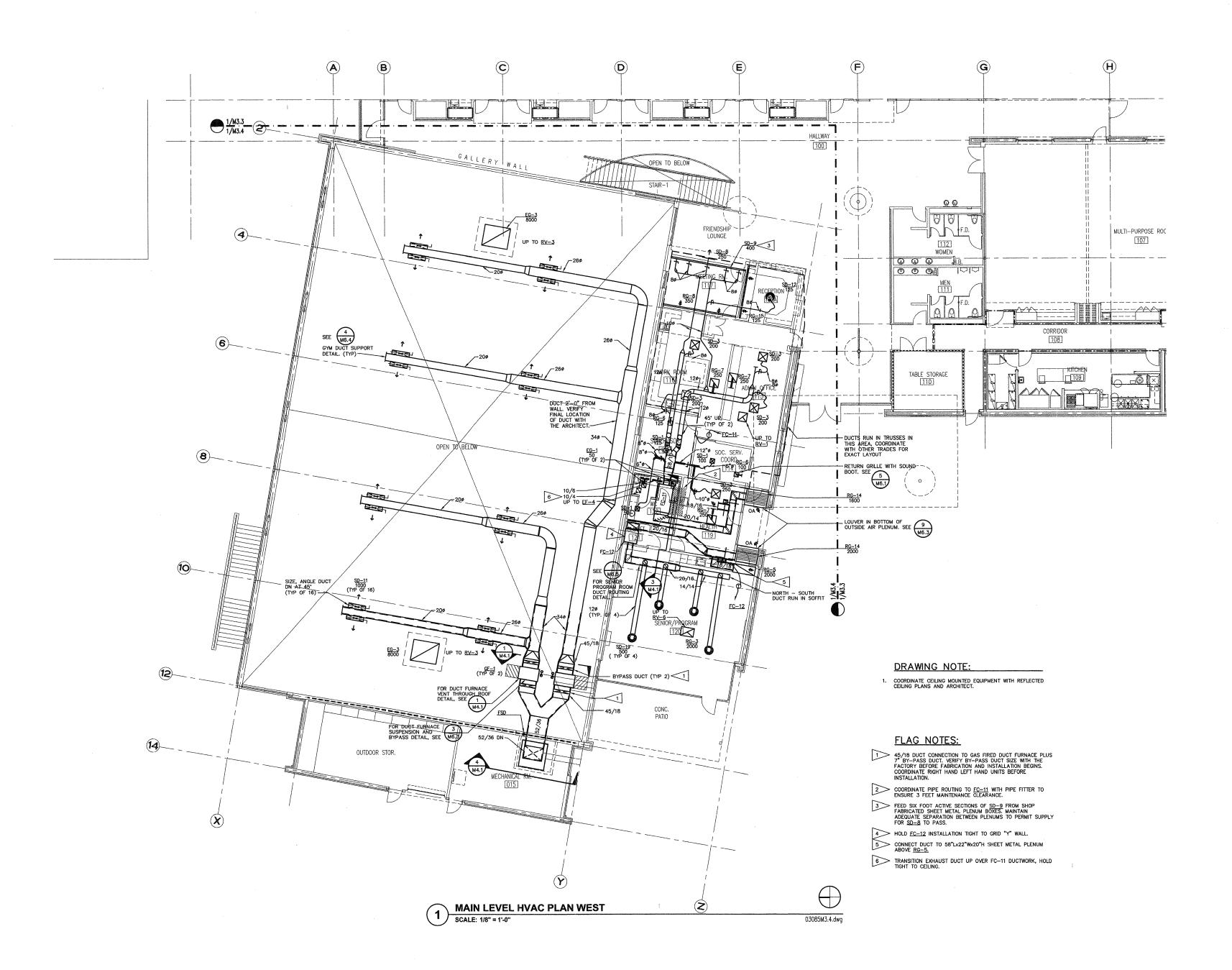
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MAIN LEVEL **HVAC PLAN EAST**





The Miller Hull Partnership, LLP

71 Columbia Sixth Floor Seattle, WA 98104 Phone 206.682.6837 Fax 206.682.5692

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CONSULTANTS

CIVIL ENGINEER

SvR Design Co. 815 Western Avenue, #400 Seattle, WA 98104

LANDSCAPE

The Portico Group 217 Pine Street, FI 2 Seattle, WA 98101

STRUCTURAL ENGINEER

Armour Unsderfer Engineering LLC 13456 SE 27th Place, Suite 200, Bellevue, WA 98005 MECHANICAL & ACOUSTICAL

The Greenbusch Group 1900 W. Nickerson Street, Suite 201, Seattle, WA 98119 ELECTRICAL ENGINEER

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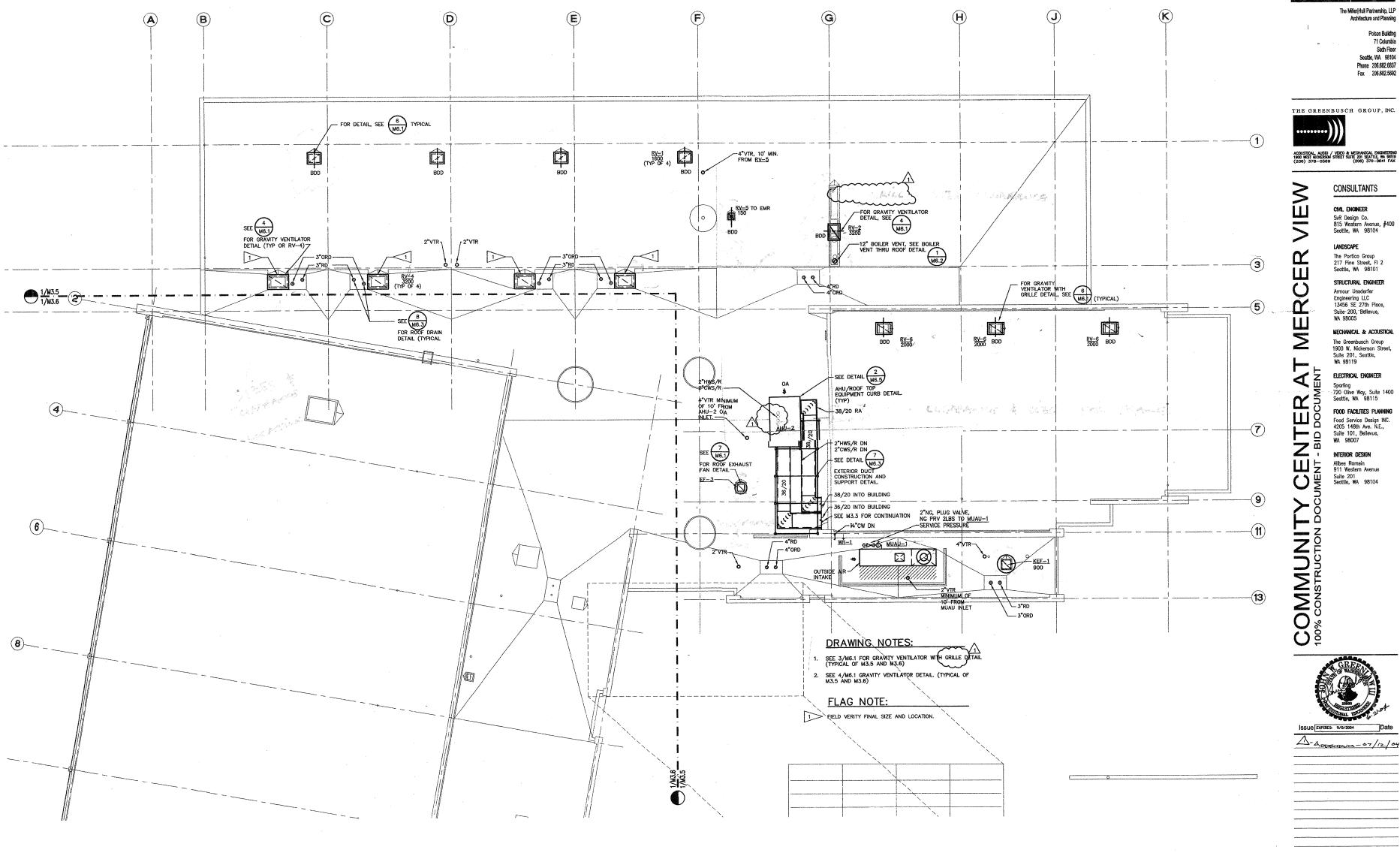
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MAIN LEVEL HVAC PLAN WEST



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ROOF MECHANICAL PLAN EAST

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

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ROOF MECHANICAL PLAN EAST

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Polson Building 71 Columbia Sixth Floor Seattle, WA 98104 Phone 206.682.6837 Fax 206.682.5692

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CONSULTANTS

CIVIL ENGINEER

SvR Design Co. 815 Western Avenue, #400 Seattle, WA 98104

LANDSCAPE

The Portico Group 217 Pine Street, Fl 2 Seattle, WA 98101

STRUCTURAL ENGINEER Armout Unsderfer Engineering LLC 13456 SE 27th Place, Saite 200, Bellevue; WA 98005 MECHANICAL & ACOUSTICAL

The Greenbusch Group 1900 W. Nickerson Street, Suite 201, Seottle, WA 98119

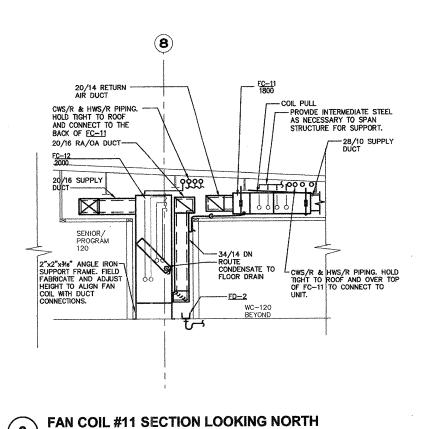
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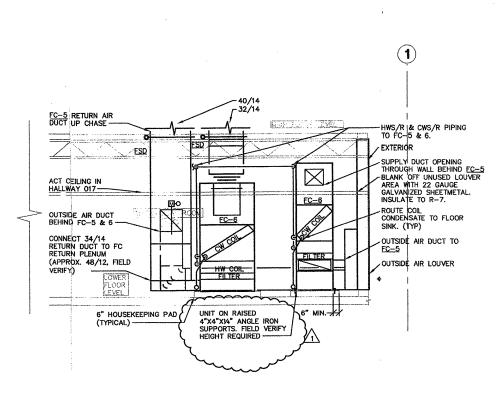
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ROOF MECHANICAL PLAN WEST



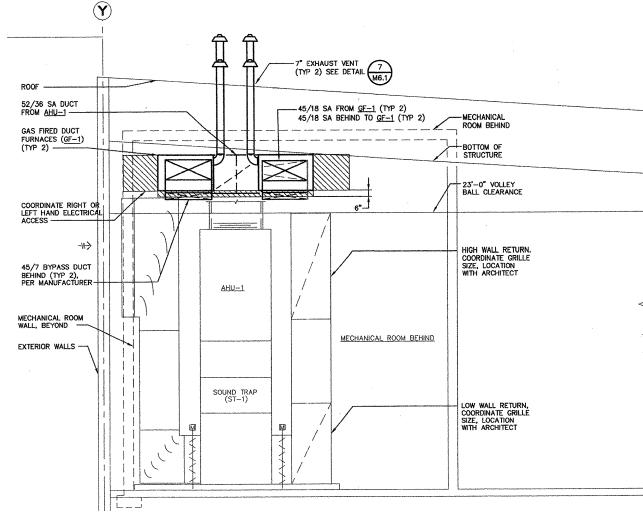
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SCALE: 1/4" = 1'-0"

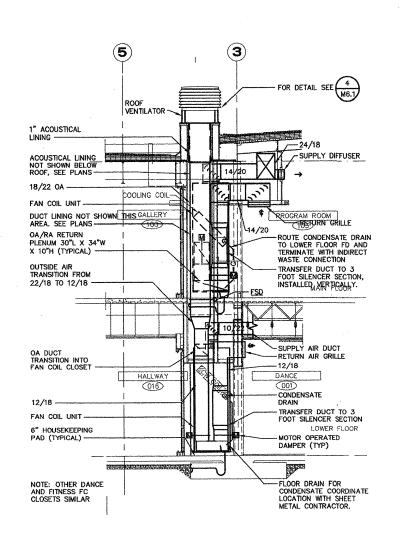


FAN COIL #5 & #6 SECTION LOOKING NORTH

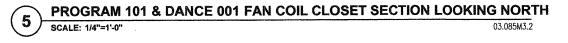
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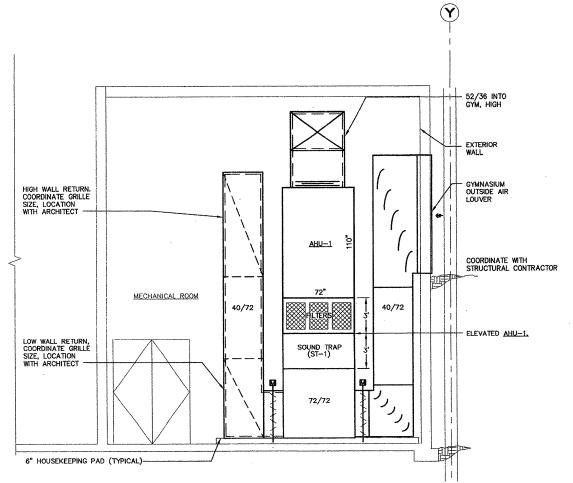






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MAKEUP AHU UNIT SECTION LOOKING EAST SCALE: 1/4" = 1'-0" 03085M3.2.dwg MILLER HULL

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CONSULTANTS

CIVIL ENGINEER SvR Design Co. 815 Western Avenue, #400 Seattle, WA 98104

VIEW

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LANDSCAPE

The Portico Group 217 Pine Street, FI 2 Seattle, WA 98101

STRUCTURAL ENGINEER

Armour Unsderfer Engineering LLC 13456 SE 27th Place, Suite 200, Bellevue, WA 98005

MECHANICAL & ACOUSTICAL The Greenbusch Group 1900 W. Nickerson Street, Suite 201, Seattle, WA 98119

ELECTRICAL ENGINEER

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Food Service Design INC. 4205 148th Ave. N.E., Suite 101, Bellevue, WA 98007

INTERIOR DESIGN Allbee Romein 911 Western Avenue Suite 201 Seattle, WA 98104

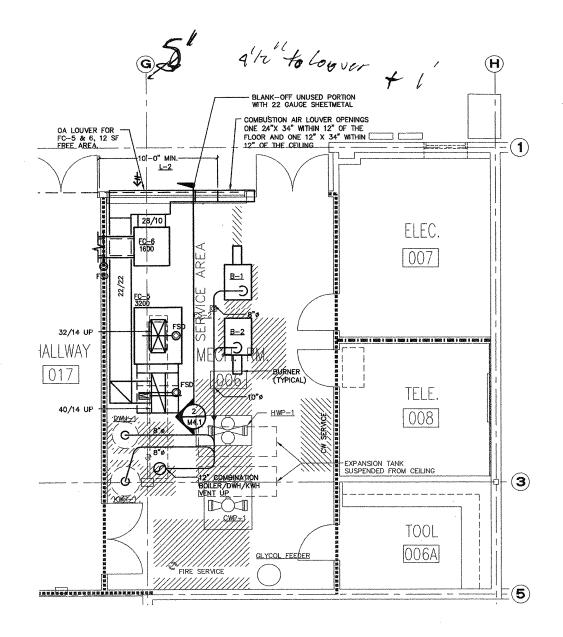
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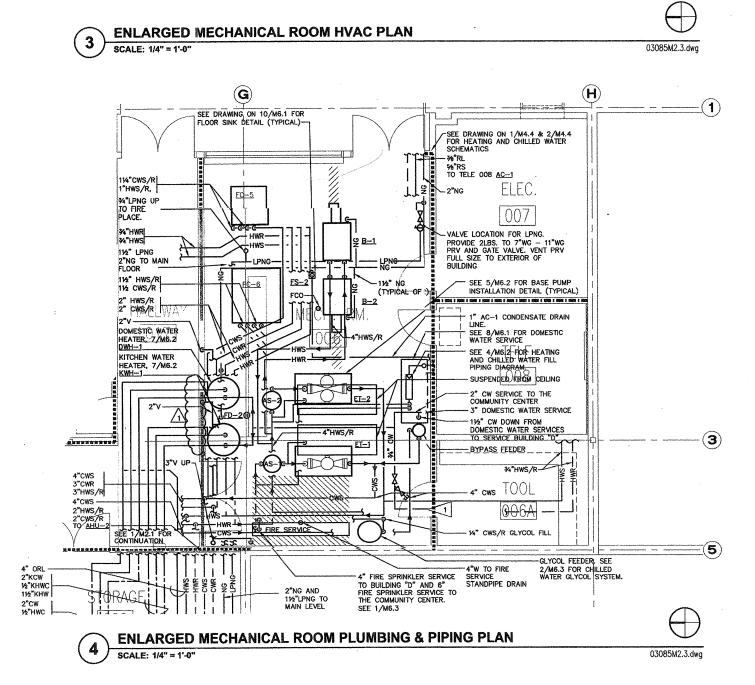
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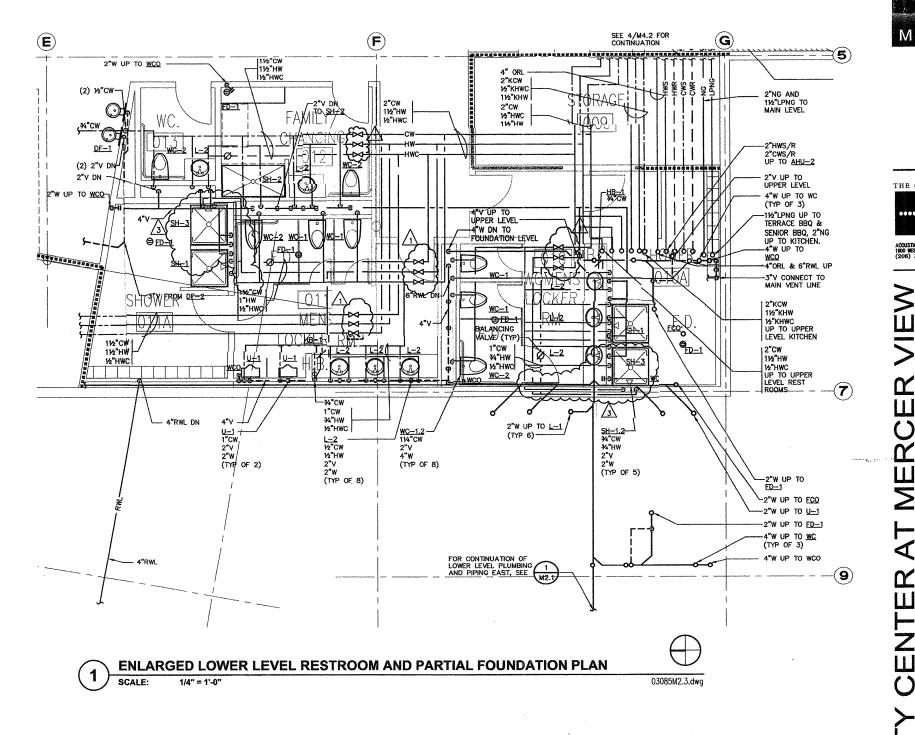
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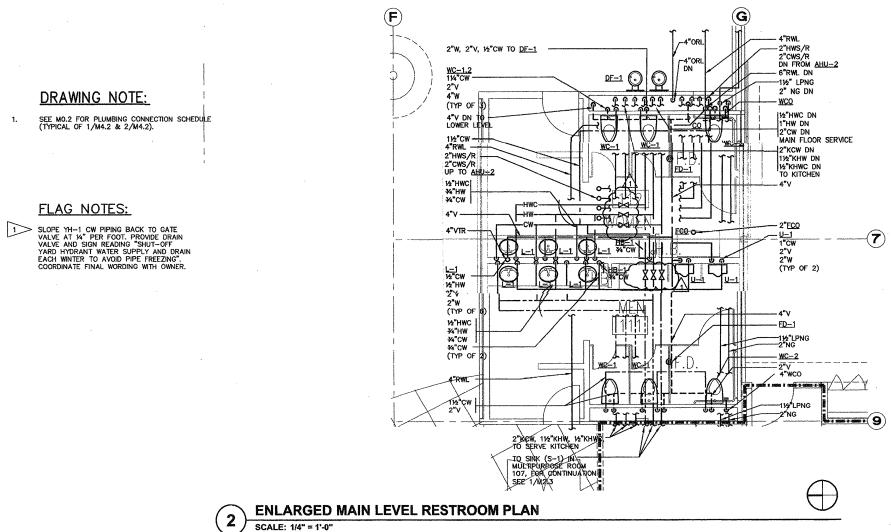
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MECHANICAL SECTIONS









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ACOUSTICAL, AUDIO / VIDEO & MECHANICAL ENGINEERING 1900 WEST NICKERSON STREET SUITE 201 SEATTLE, WA 98119 (206) 378-0569 (206) 378-0841 FAX

CONSULTANTS

CIVIL ENGINEER

SvR Design Co. 815 Western Avenue, #400 Seattle, WA 98104

LANDSCAPE

The Portico Group 217 Pine Street, FI 2 Seattle, WA 98101 STRUCTURAL ENGINEER

Armour Unsderfer Engineering LLC 13456 SE 27th Place, Suite 200; Bellevue, WA 98005

MECHANICAL & ACOUSTICAL The Greenbusch Group 1900 W. Nickerson Street,

Suite 201, Seattle, WA 98119 ELECTRICAL ENGINEER Sparling 720 Olive Way, Suite 1400 Seattle, WA 98115

FOOD FACILITIES PLANNING

Food Service Design INC. 4205 148th Ave. N.E., Suite 101, Bellevue, WA 98007 INTERIOR DESIGN

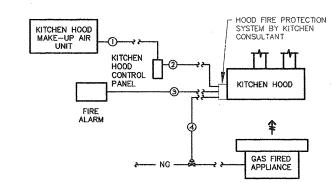
O MENT Allbee Romein 911 Western Avenue Suite 201 Seattle, WA 98104

11) - ADDENDUM-07/12/04 3-ADDENDUM-07/15/04

100% CD

Issue Date <u>06/24/200</u>

ENLARGED PLANS

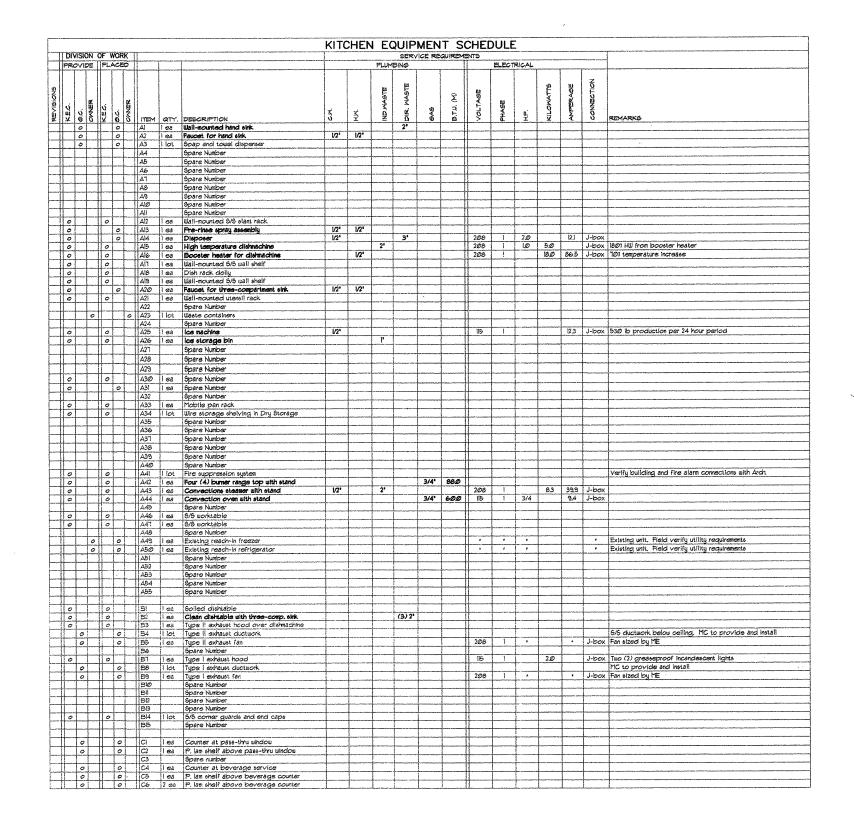


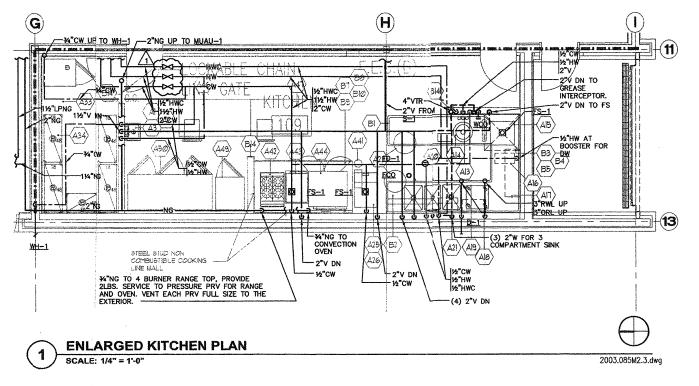
- ① KITCHEN MAKE-UP AIR UNIT CONTROL PANEL WIRING BY MECHANICAL
- ② KITCHEN HOOD FIRE PROTECTION SYSTEM TO MAKE UP AIR UNIT CONTROL PANEL BY MECHANICAL. INITIATE SHUTDOWN AS REQUIRED BY LOCAL JURISDICTION.
- 3 KITCHEN HOOD FIRE PROTECTION SYSTEM TO FIRE ALARM BY ELECTRICAL.
- (4) KITCHEN HOOD FIRE PROTECTION SYSTEM TO SOLENOID GAS VALVE BY MECHANICAL. SHUT OFF GAS SUPPLY UPON INITIATION OF FIRE PROTECTION SYSTEM.

KITCHEN HOOD CONTROL SCHEMATIC SCALE: NOT TO SCALE

DRAWING NOTE

KITCHEN EQUIPMENT AND APPLIANCES SPECIFIED BY KITCHEN CONSULTANT. MECHANICAL TO PROVIDE ROUGH-IN AND CONNECTIONS.





MILLER HULL

The Miller[Hull Partnership, LLP Architecture and Planning

Polson Building 71 Columbia Sixth Floor Seattle, WA 98104 Phone 206.682.6837 Fax 206.682.5692

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CONSULTANTS

VIEW CIVIL ENGINEER SvR Design Co. 815 Western Avenue, #400 Seattle, WA 98104

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STRUCTURAL ENGINEER Armour Unsderfer

Engineering LLC 13456 SE 27th Place, Suite 200, Bellevue, WA 98005 MECHANICAL & ACOUSTICAL

The Greenbusch Group 1900 W. Nickerson Street, Suite 201, Seattle,

ELECTRICAL ENGINEER

WA 98119

Sparling 720 Olive Way, Suite 1400 Seattle, WA 98115 FOOD FACILITIES PLANNING

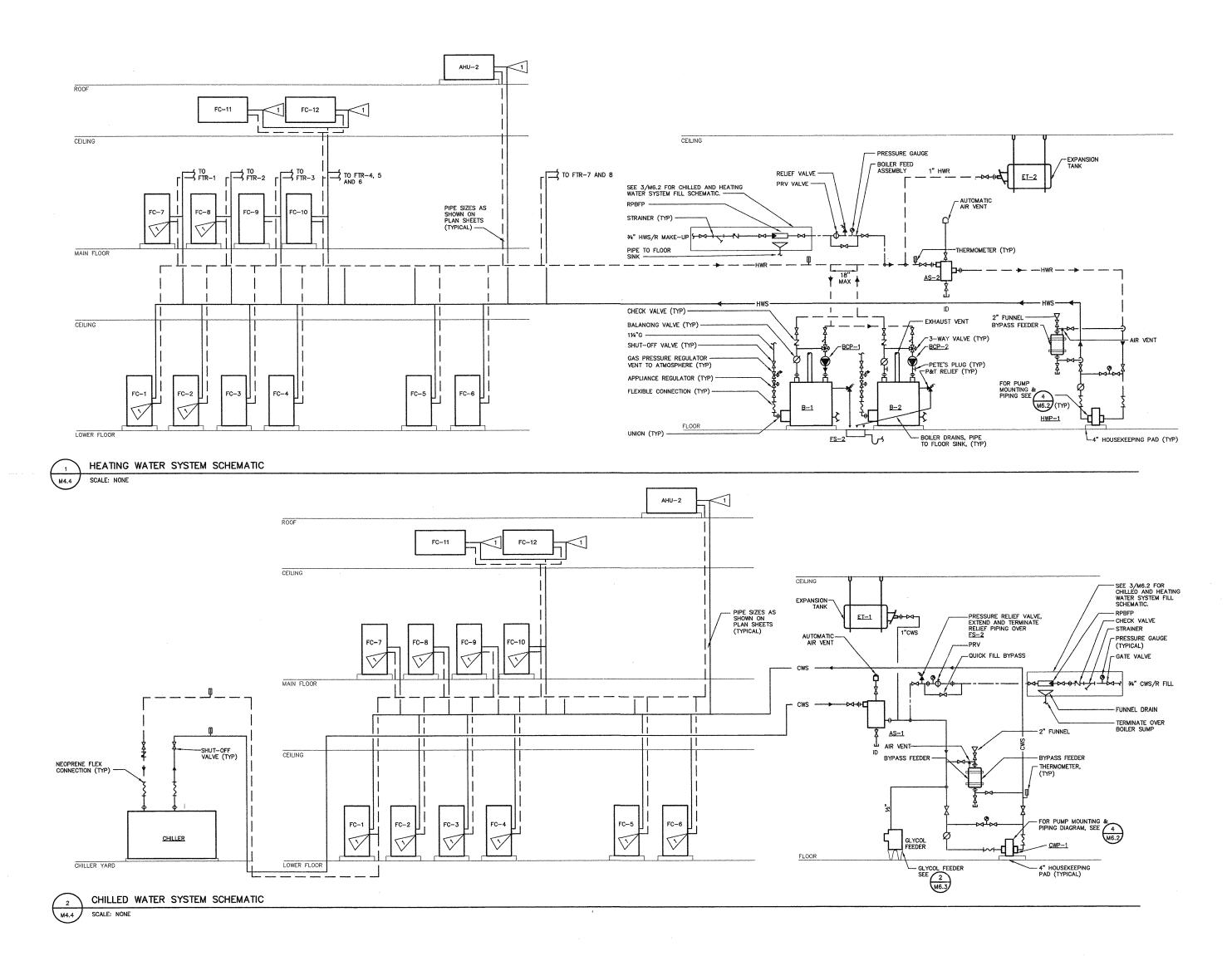
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ENLARGED KITCHEN PLAN



FLAG NOTES:

THREE WAY VALVE (ALL OTHERS ARE TWO WAY VALVES). SEE 12/M6.2 FOR HEATING AND COOLING COIL PIPING SCHEMATIC. (TYPICAL OF ALL COILS)

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The Miller|Hull Partnership, LLP Architecture and Planning

Polson Building 71 Columbia Sixth Floor Seattle, WA 98104 Phone 206.682.6837 Fax 206.682.5692

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CONSULTANTS

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STRUCTURAL ENGINEER

Armour Unsderfer Engineering LLC 13456 SE 27th Place, Suite 200, Bellevue, WA 98005

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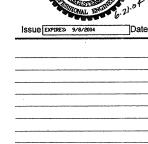
AT MERCER ELECTRICAL ENGINEER Sparling 720 Olive Way, Suite 1400 Seattle, WA 98115

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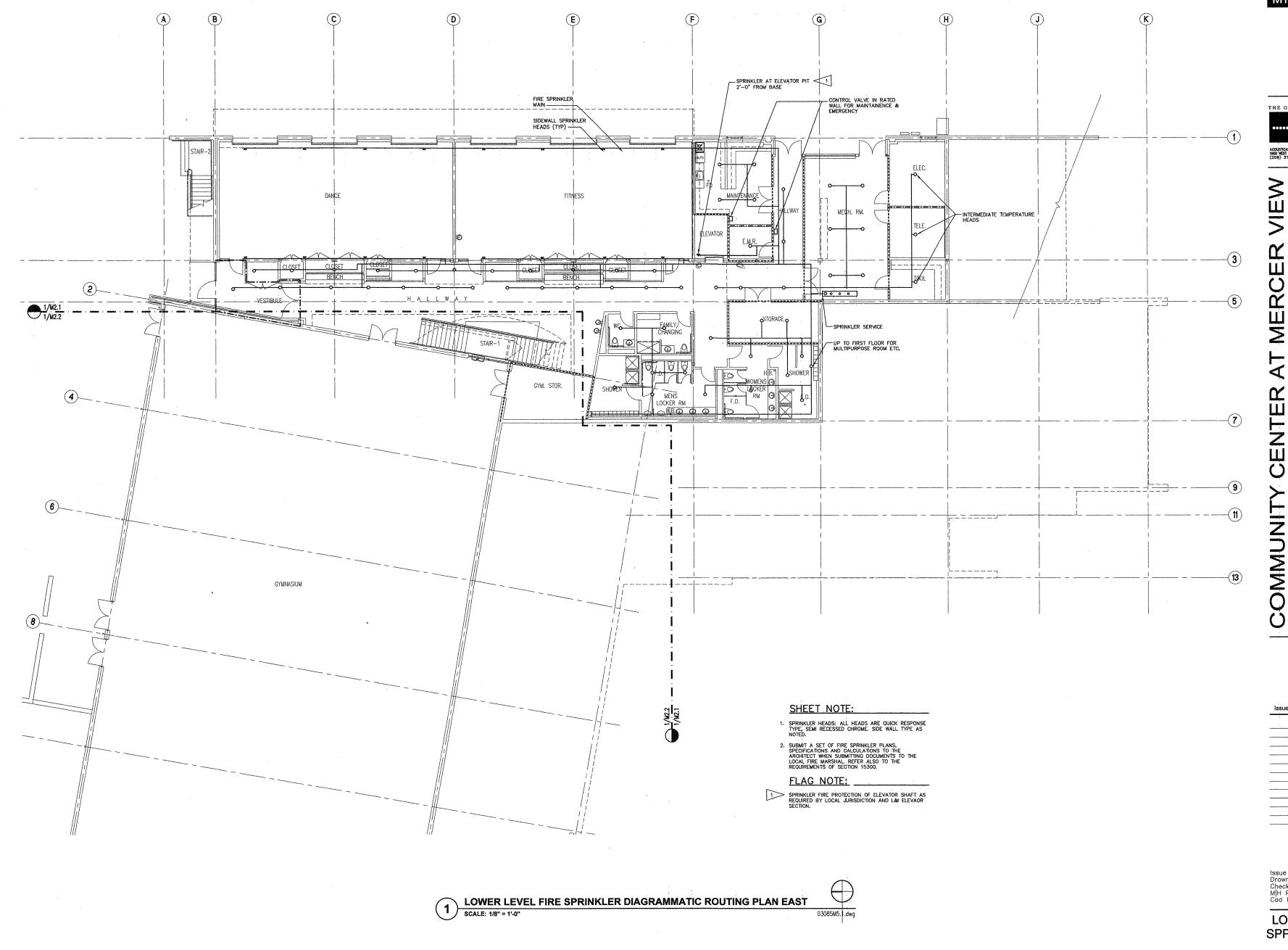
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HEATING AND CHILLED WATER SYSTEM SCHEMATICS

M4.4



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CONSULTANTS

CIVIL ENGINEER

SvR Design Co. 815 Western Avenue, #400 Seattle, WA 98104

LANDSCAPE

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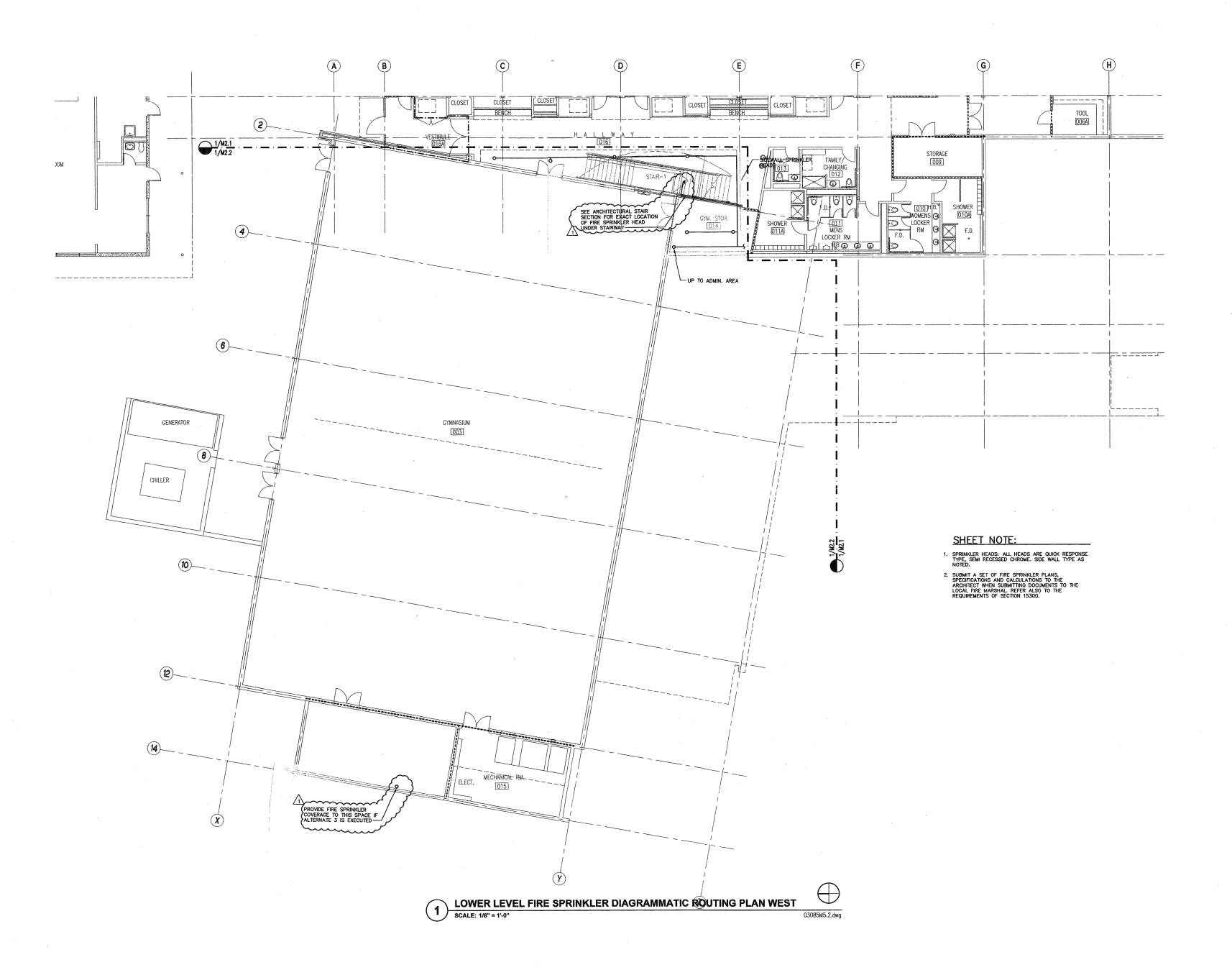
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LOWER LEVEL FIRE SPRINKLER ROUTING PLAN EAST



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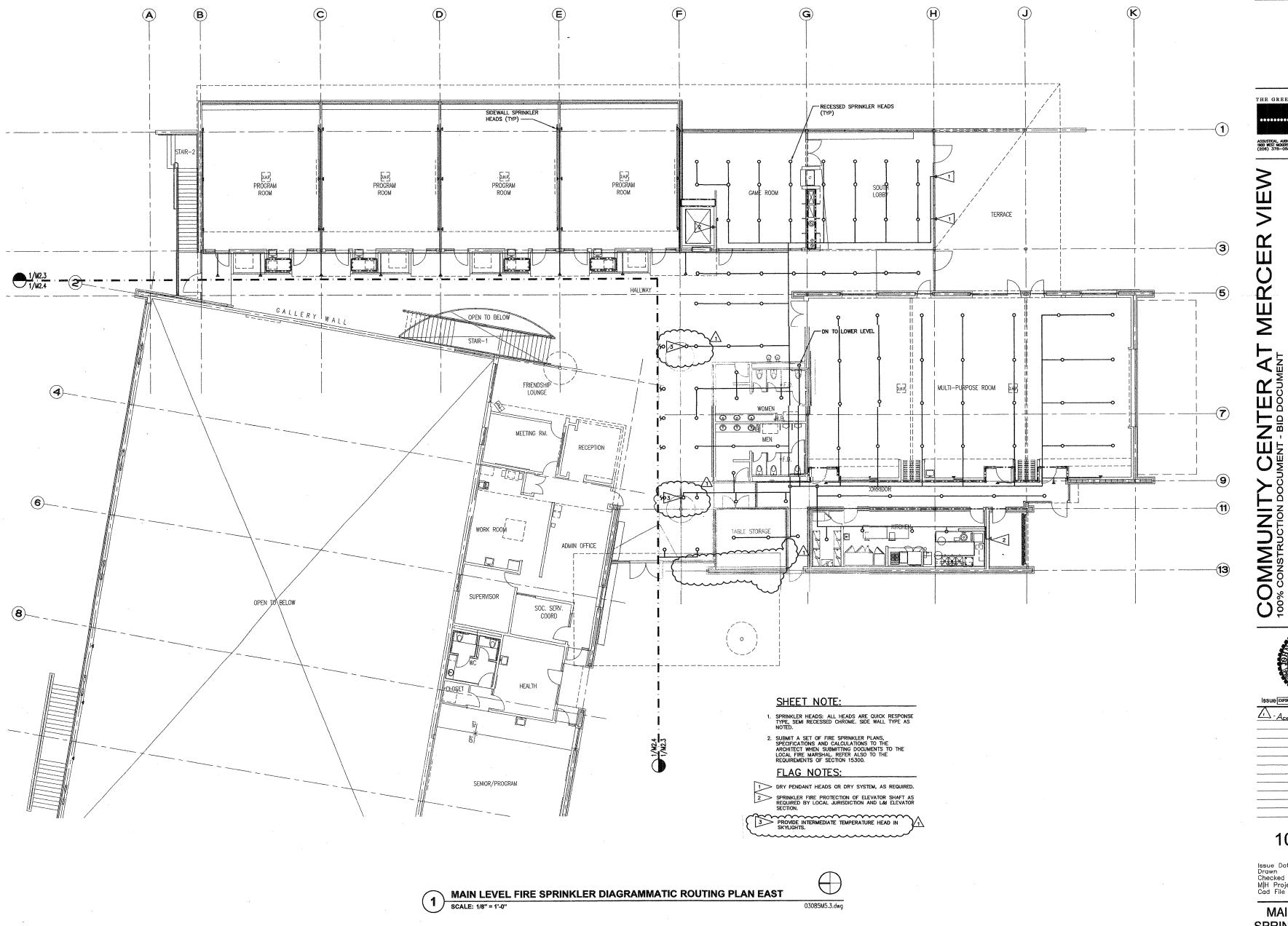
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LOWER LEVEL FIRE **SPRINKLER ROUTING PLAN WEST**



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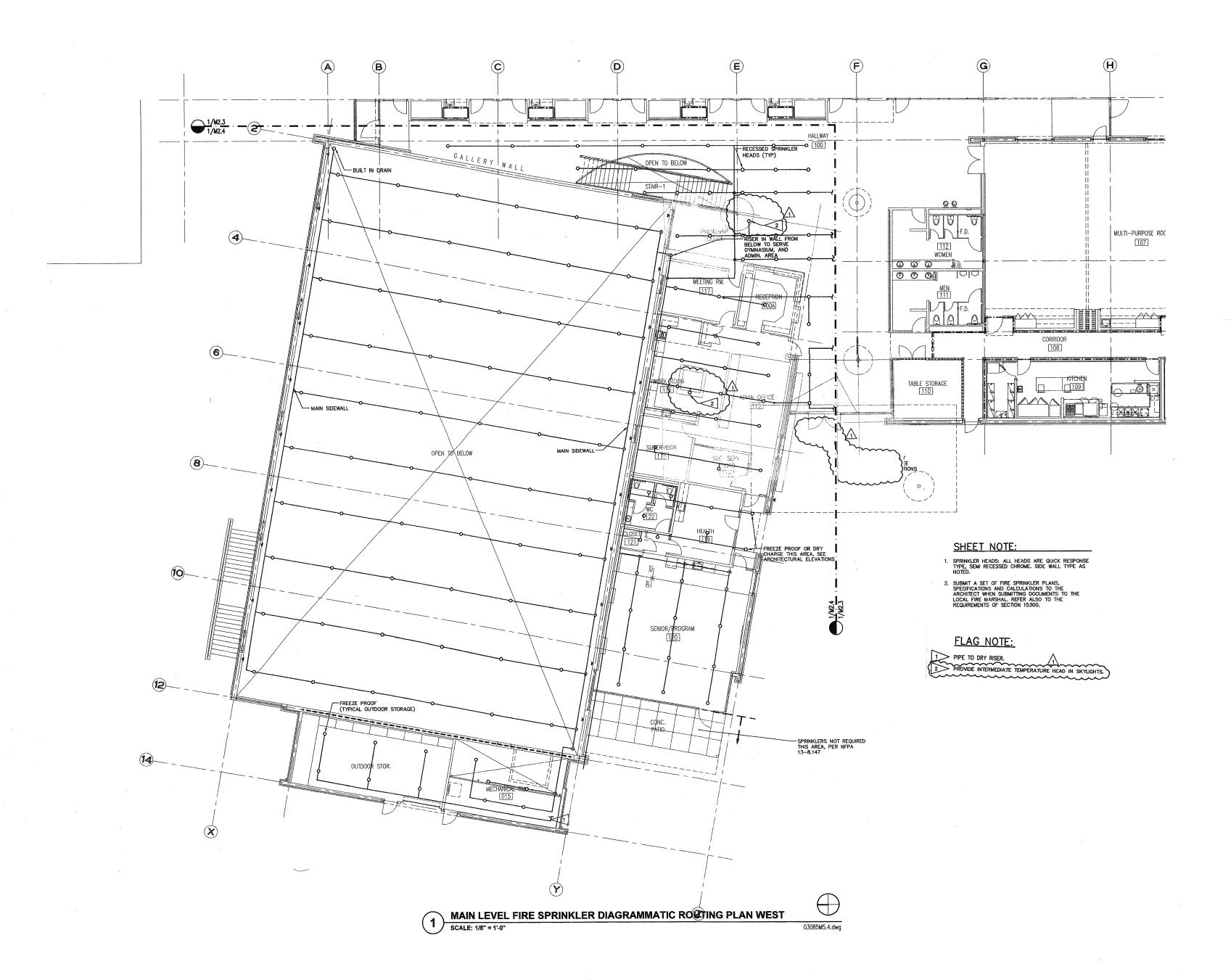
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MAIN LEVEL FIRE SPRINKLER ROUTING **PLAN EAST**



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STRUCTURAL ENGINEER

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MECHANICAL & ACOUSTICAL

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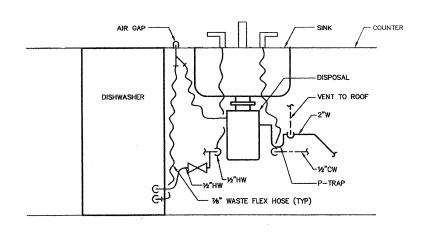
INTERIOR DESIGN

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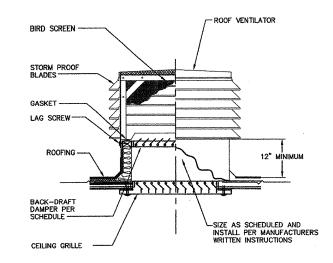
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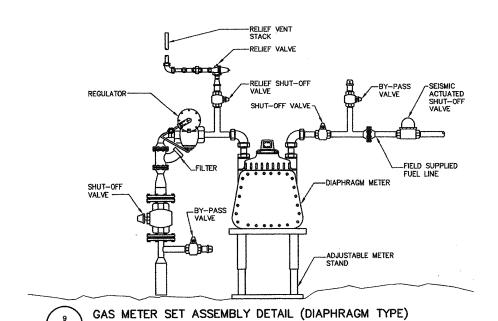
MAIN LEVEL FIRE SPRINKLER ROUTING **PLAN WEST**

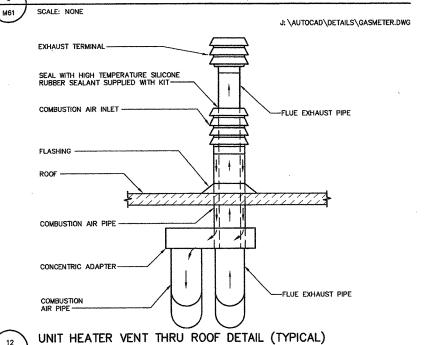


DISHWASHER CONNECTION DETAIL M6.1 SCALE: NONE



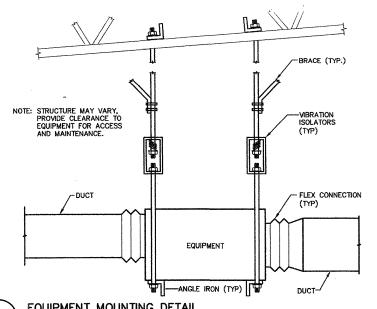
CEILING GRILLE AND ROOF VENTILATOR DETAIL SCALE: NONE



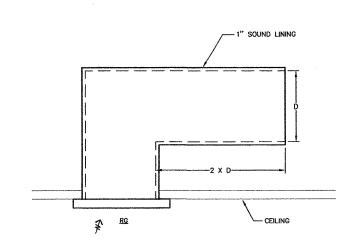


M6.1

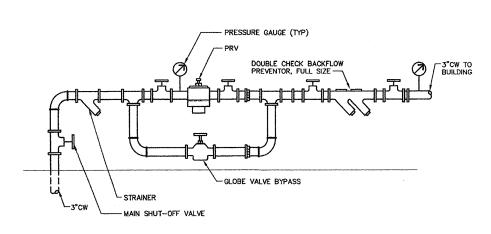
SCALE: NONE



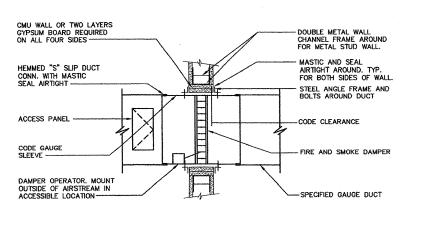
EQUIPMENT MOUNTING DETAIL SCALE: NONE



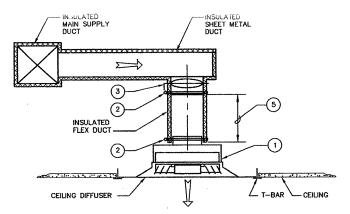
CEILING RETURN DETAIL (TYPICAL) J: \AUTOCAD\DETAILS\RA_DET.DWG



DOMESTIC WATER SERVICE ENTRANCE DETAIL SCALE: NONE



FIRE/SMOKE DAMPER INSTALLATION DETAIL (TYPICAL) SCALE: NONE



NOTES:

① SQUARE-TO-ROUND TRANSITION ACCESSORY WHERE USED.

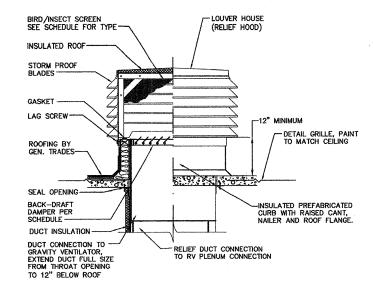
(2) COMPRESSION STRAP ON FLEX. DUCT TO INSURE AIRTIGHT JOINT. (3) BUTTERFLY DAMPER OUT OF MAIN SUPPLY DUCT.

4. "D" IS SUPPLY DUCT SIZE TO DIFFUSER.

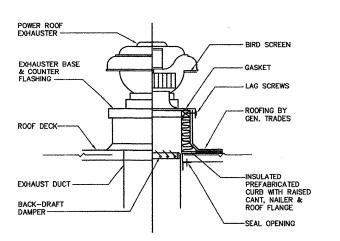
(5) MIN 1.5 X "D" STRAIGHT LENGTH, IF SPACE IS AVAILABLE.

6. MAX LENGTH OF FLEX DUCT TO BE 6 FEET.

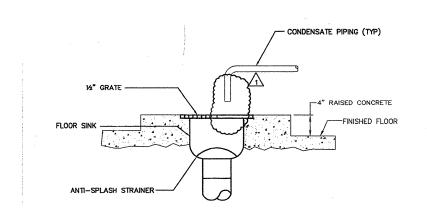
CEILING DIFFUSER DETAIL M6.1 SCALE: NONE



ROOF VENTILATOR DETAIL SCALE: NONE



ROOF EXHAUST FAN DETAIL SCALE: NONE



FLOOR SINK DETAIL M6.1 SCALE: NONE

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THE GREENBUSCH GROUP, INC.

ACOUSTICAL, AUDIO / VIDEO & MECHANICAL ENGINEERING 1900 WEST NICKERSON STREET SUITE 201 SEATTLE, WA 98119 (206) 378-0569 (208) 378-0641 FAX

CONSULTANTS

SvR Design Co. 815 Western Avenue, #400 Seattle, WA 98104

The Portico Group 217 Pine Street, Fl 2 Seattle, WA 98101

STRUCTURAL ENGINEER

Armour Unsderfer Engineering LLC 13456 SE 27th Place, Suite 200, Bellevue, WA 98005

MECHANICAL & ACOUSTICAL

CIVIL ENGINEER

LANDSCAPE

VIEW

The Miller Hull Partnership, LLP Polson Building 71 Columbia

Sixth Floor

Seattle, WA 98104 Phone 206,682,6837 Fax 206.682.5692

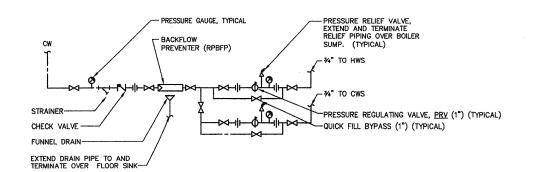
MERCER The Greenbusch Group 1900 W. Nickerson Street, Suite 201, Seattle, WA 98119 ELECTRICAL ENGINEER Sparling 720 Olive Way, Suite 1400 Seattle, WA 98115 CENTER UMENT - BID DOC FOOD FACILITIES PLANNING Food Service Design INC. 4205 148th Ave. N.E., Suite 101, Bellevue, INTERIOR DESIGN Allbee Romein 911 Western Avenue COMMUNITY 100% CONSTRUCTION DOC

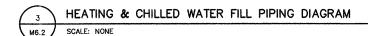
A-ADDENDUM - 07/12/04

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DETAILS

M6.1



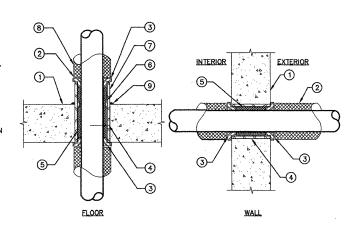


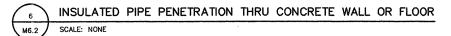
1 PRECAST CONCRETE OR EXISTING CONCRETE WALL OR FLOOR.

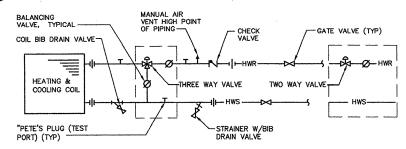
PIPE INSULATION TO BUTT AGAINST PLUG.

3 PLUG USED TO SEAL AROUND PASS THROUGH PIPE AND SUPPORTS PIPE. PROVIDE ADHESIVE CEMENT BETWEEN INSULATION AND PLUG TO SEAL FOR VAPOR BARRIER IN CHILLER WATER PIPING.

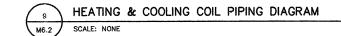
- (5) COMPLETELY FILL THE VOID BETWEEN THE PIPE AND THE SLEEVE WITH FIREFILL MATERIAL.
- (6) INSERT PIPE TO SUPPORT SLEEVE EXTENSION.
- SLEEVE EXTENSION.
- (8) INSULATION ABOVE FLOOR.
- 9 SEAL AROUND PIPE FOR WATERPROOFING.

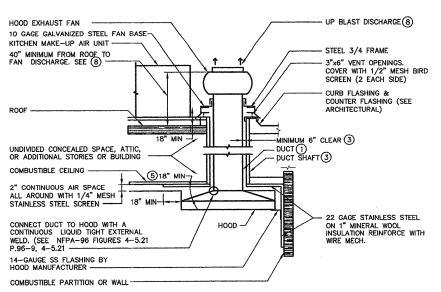






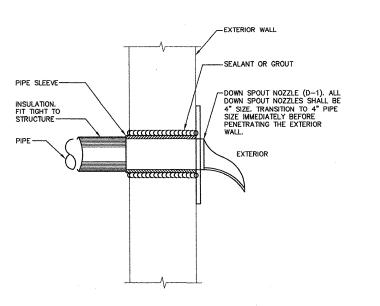
NOTE: PROVIDE 3-WAY VALVES AT END OF PIPING RUNS. PROVIDE 2-WAY VALVES ELSEWHERE.



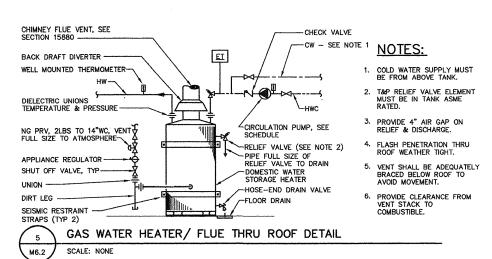


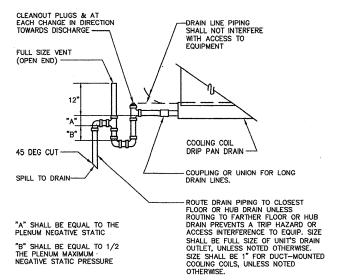
NOTES:

- 2. ALL SEAMS AND JOINTS SHALL BE CONSTRUCTED LIQUID—TIGHT WITH AN EXTERNAL WELD.
- 3 DUCTS SHALL HAVE A MINIMUM OF A 6"
 VENTILATED AIR SPACE, AND A CONTINUOUS
 ENCLOSED SHAFT EXTENDING FROM THE CEILING
 ABOVE THE HOOD, THROUGH THE ROOF,
 (CONSTRUCTION OF THE SHAFT SHOULD BE UL
 LISTED NON-COMBUSTIBLE ASSEMBLY AS
 OUTLINED IN THE FIRE RESTRICTIVE DIRECTORY
 AND REQUIRED BY CODE. ANY SUPPORTING
 MEMBER ADDED TO PROVIDE RIGIDITY TO THE
 ASSEMBLY SHOULD BE METAL). SEE
 ARCHITECTURAL DOCUMENTS.
- 4. DUCTS SHALL EXTEND ABOVE THE ROOF SO THAT THERE IS AT LEAST 40" OF CLEARANCE FROM THE OUTLET TO THE ROOF SURFACE.
- (5) 18" CLEARANCE SHALL BE MAINTAINED TO COMBUSTIBLE MATERIALS FROM THE HOOD, VENT AND FAN IN THE OPEN: UNLESS IT IS PROTECTED IN ACCORDANCE WITH NFPA PHAMPLET NO. 96, APPENDIX "A".
- 3. TROUGHS AND GUTTERS ARE NOT PERMITTED EXCEPT BENEATH FILTERS.
- 7. EXHAUST FANS SHALL BE MOUNTED OUTSIDE OF THE BUILDING.
- (8) DETAILS MUST COMPLY WITH NFPA STANDARD 96 DISCHARGE MINIMUM 10'-0" FROM ADJACENT BUILDINGS, AIR INTAKES, PROPERTY LINES. EXCEPTION SEE NFPA P96-11, 4-821.
- 9. ACCESS DOORS PER UMC.

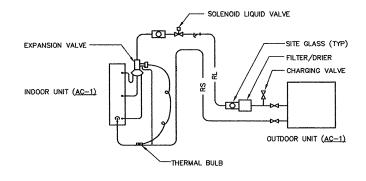


OVERFLOW RAIN LEADER TERMINATION DETAIL SCALE: NONE





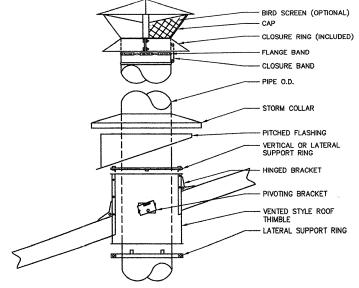
COOLING COIL DRAIN PAN DETAIL



NOTE:

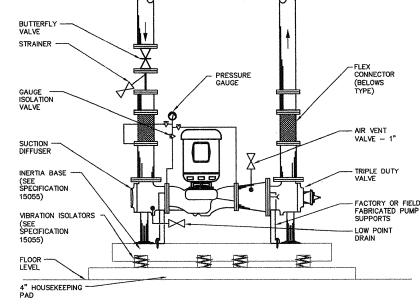
PROVIDE INSULATION ON SUCTION LINE (RS), PER WASHINGTON STATE ENERGY CODE.

SCALE: NONE

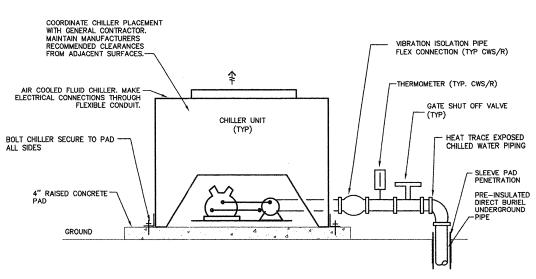


NOTE: SEAL / WEATHER SEAL ALL COMPONENT CONNECTION POINTS.

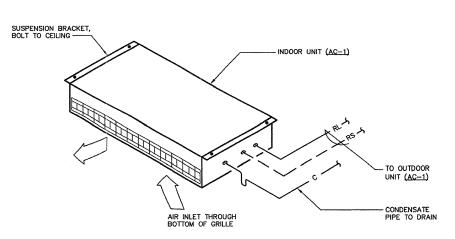
BOILER VENT THROUGH ROOF DETAIL SCALE: NONE



VERTICAL IN-LINE PUMP DETAIL M6.2 SCALE: NONE J: \AUTOCAD\DETAILS\ROOF_EF.DWG



CHILLER UNIT DETAIL



INDOOR AIR CONDITIONING UNIT DETAIL (AC-1) SCALE: NONE M6.2

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MILLER

The Miller Hull Partnership, LLF

Sixth Floor Seattle, WA 98104

Phone 206.682.6837

Fax 206.682.5692

THE GREENBUSCH GROUP, INC.

ACOUSTICAL, AUDIO / VIDEO & MECHANICAL ENGINEERING 1900 WEST NICKERSON STREET SUITE 201 SEATTLE, WA 98119 (206) 378-0569 (206) 378-0641 FAX

CONSULTANTS

SvR Design Co. 815 Western Avenue, #400 Seattle, WA 98104

CIVIL ENGINEER

LANDSCAPE The Portico Group 217 Pine Street, FI 2

Seattle, WA 98101

STRUCTURAL ENGINEER

MECHANICAL & ACOUSTICAL The Greenbusch Group 1900 W. Nickerson Street,

Suite 201, Seattle, WA 98119

ELECTRICAL ENGINEER

FOOD FACILITIES PLANNING

Food Service Design INC. 4205 148th Ave. N.E.,

INTERIOR DESIGN

Allbee Romein 911 Western Avenue

Suite 201 Seattle, WA 98104

Armour Unsderfer Engineering LLC 13456 SE 27th Place, Suite 200, Bellevue,

WA 98005

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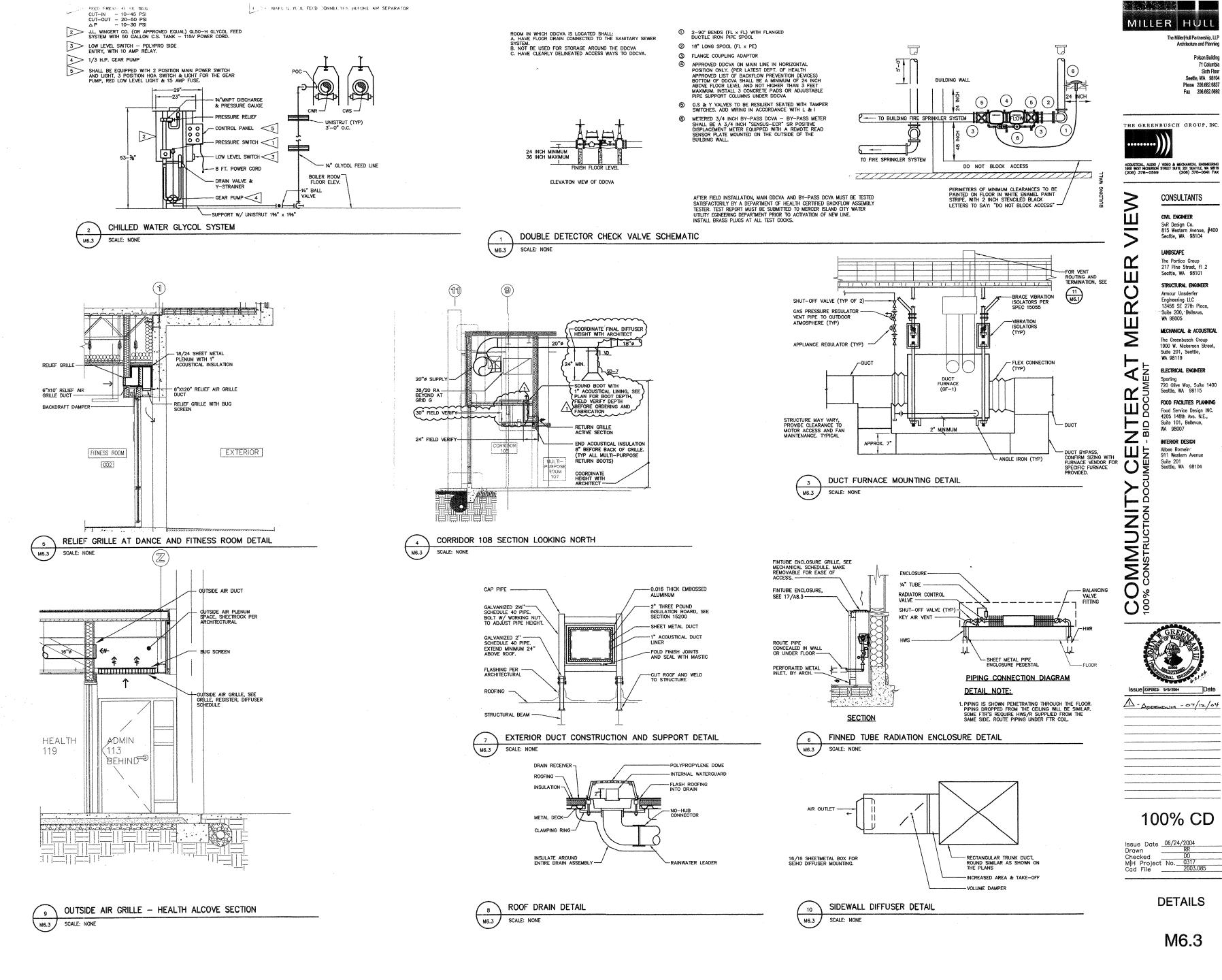
DETAILS

M6.2

KITCHEN HOOD EXHAUST DETAIL M6.2 SCALE: NONE

M6.2

EVAPORATOR AND CONDENSING UNIT DETAIL

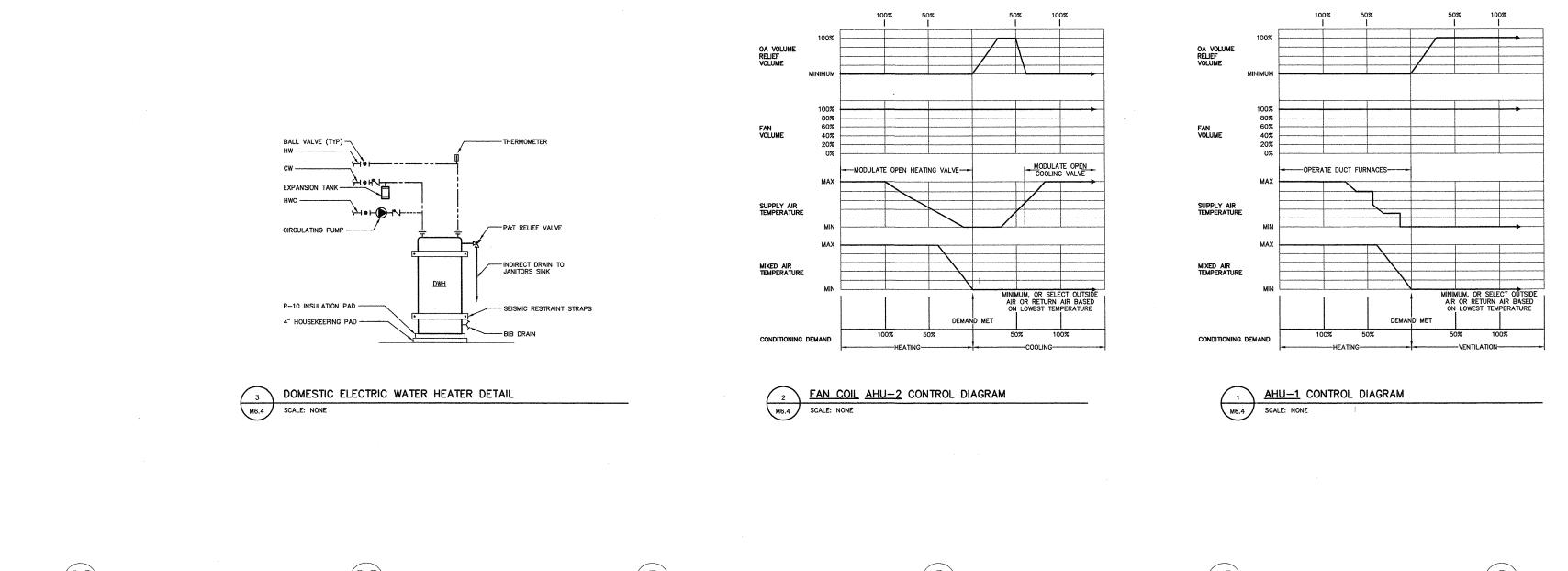


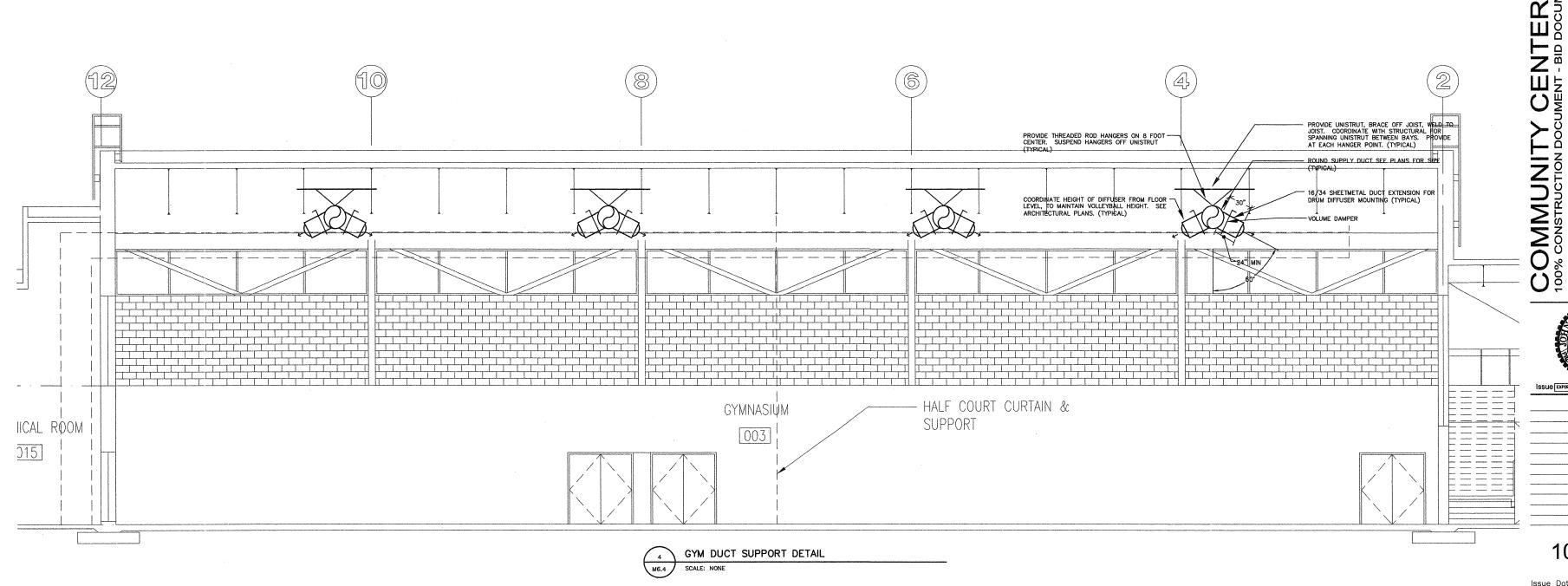
M6.3

The Miller/Hull Partnership, LLP

71 Columbia Sixth Floor

Seattle, WA 98104 Phone 206.682.6837 Fax 206.682.5692





The Miller[Hull Partnership, LLP Architecture and Planning

Polson Building 71 Columbia Sixth Floor Seattle, WA 98104 Phone 206.682.6837 Fax 206.682.5692

THE GREENBUSCH GROUP, INC.

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CIVIL ENGINEER

SVR Design Co. 815 Western Avenue, #400 Seattle, WA 98104

LANDSCAPE

The Portico Group 217 Pine Street, Fl 2 Seattle, WA 98101

STRUCTURAL ENGINEER

Armoor Unsderfer Engineering LLC 13456 SE 27th Place, Suite 200, Bellevue, WA 98005

MECHANICAL & ACOUSTICAL The Greenbusch Group 1900 W. Nickerson Street, Suite 201, Seattle, WA 98119

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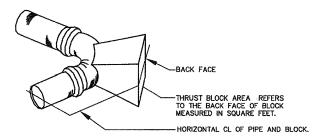
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DETAILS

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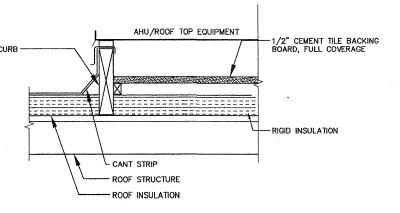


LOCATION AND SIZE OF BLOCKING FOR PIPE LARGER THAN 12" AND FOR SOIL TYPES DIFFERENT THAN SHOWN SHALL BE DETERMINED BY THE ENGINEER.

- ALL BLOCKING FOR HORIZONTAL FITTINGS (POURED IN PLACE) SHALL BEAR AGAINST UNDISTURBED NATIVE GROUND.
- ALL POURED THRUST BLOCKS SHALL BE IN PLACE AND SUFFICIENT TIME SHALL BE ALLOWED FOR THE CONCRETE TO CURE AND TRENCH SHALL BE BACK FILLED AND COMPACTED PRIOR TO PRESSURE TESTING.
- BLOCKING AGAINST FITTINGS SHALL BEAR AGAINST THE GREATEST SURFACE AREA POSSIBLE, BUT SHALL NOT COVER OR ENCLOSE BELL END, JOINT BOLTS OR GLANDS.
- ALL HORIZONTAL BLOCKING THRUST AREAS SHALL BE CENTERED ON PIPE.
- WHERE POURED-IN-PLACE BLOCKING IS REQUIRED AT A POINT OF CONNECTION TO AN EXISTING PIPE, THE BLOCKING SHALL BE INSTALLED PRIOR TO CONNECTION AND TEMPORARY WOOD SHIMS INSTALLED, AND SPACE BETWEEN FITTING AND BLOCKING GROUTED.

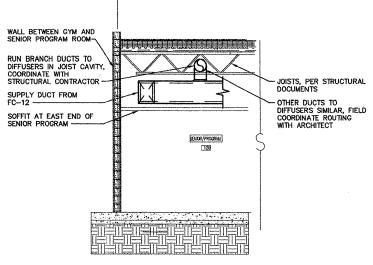
M6.5 SCALE: NONE

THRUST BLOCKING DETAIL

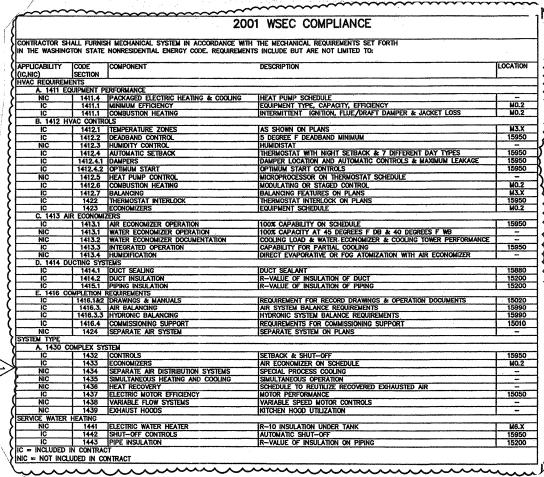


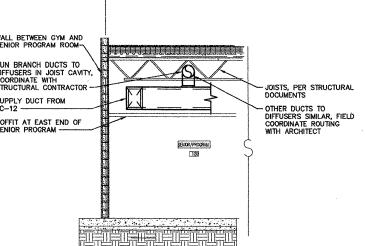
AHU/ROOF TOP EQUIPMENT CURB DETAIL (TYPICAL) M6.5

SCALE: NONE



SENIOR PROGRAM ROOM DUCT ROUTING DETAIL M6.5 SCALE: NONE J:\AUTOCAD\DETAILS\RA_DET.DWG MECHANICAL CONTRACTOR TO PROVIDE AND INSTALL INTERMEDIATE STEEL AS NECESSARY. COORDINATE WITH STRUCTURAL INTERMEDIATE STEEL OR STRUCTURE AIRCRAFT CABLE EARTHQUAKE BRACING SUSPEND DUCT BY THREADED ROD DUCT HANGER COLLAR ADJUST LENGTH TO INSTALL DIFFUSER AT HEIGHT SPECIFIED BY ARCHITECT BALANCING DAMPER WITH LOCKING HANDLE ROUND SUPPLY DIFFUSER SHOWN, OTHER SEE 10/M6.3 FOR SIDE WALL DIFFUSER DETAIL TYPICAL ALL DUCT MOUNTED DIFFUSER'S EXPOSED ROUND DUCT HANGING DETAIL M6.5 SCALE: NONE







MILLER HULL

THE GREENBUSCH GROUP, INC.

ACOUSTICAL, AUDIO / VIDEO & MECHANICAL ENGINEERING 1900 WEST HICKERSON STREET SUITE 201 SEATTLE, WA 98119 (206) 378-0569 (206) 378-0641 FAX

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CONSULTANTS

SvR Design Co. 815 Western Avenue, #400 Seattle, WA 98104

The Portico Group 217 Pine Street, FI 2 Seattle, WA 98101

STRUCTURAL ENGINEER

Suite 200, Bellevue, WA 98005

Suite 201, Seattle, WA 98119

ELECTRICAL ENGINEER Sparling 720 Olive Way, Suite 1400 Seattle, WA 98115

FOOD FACILITIES PLANNING Food Service Design INC. 4205 148th Ave. N.E.,

Suite 101, Bellevue, WA 98007

INTERIOR DESIGN

Allbee Romein 911 Western Avenue

Suite 201 Seattle, WA 98104

MECHANICAL & ACOUSTICAL The Greenbusch Group 1900 W. Nickerson Street,

Armour Unsderfer Engineering LLC 13456 SE 27th Place,

CIVIL ENGINEER

LANDSCAPE

The Miller/Hull Partnership, LLP

71 Columbia

Seattle, WA 98104

Phone 206.682.6837 Fax 206.682.5692

1- ADDENDUM -07/12/04

100% CD

Issue Date 06/24/2004
Drawn RR
Checked D0

DETAILS

M6.5