MECHANICAL LEGEND (not all may apply)

GENERAL ABBREVIATIONS

AAD	AUTOMATIC AIR DAMPER	DET	DETAIL	HX	HEAT EXCHANGER	REQ'D	REQUIRED
AAV	AUTOMATIC AIR VENT	DIA	DIAMETER	IA	INSTRUMENT AIR	REV	REVISE(D)
AB	AIR BLENDER	DN	DOWN	IE	INVERT ELEVATION	RG	RETURN GRILLE
AC-*	AIR CONDITIONING UNIT	DPR	DAMPER	IN	INCH	RH	RELATIVE HUMIDITY/ROOF
ACC	AIR COOLED CONDENSER	DPT	DEW POINT TEMPERATURE	INV	INVERT	RV	RELIEF VENT
ACCU	AIR COOLED CONDENSING UNIT	DR	DRAIN	KEC	KITCHEN EQUIPMENT CONTRACTOR	RM	ROOM
AD	ACCESS DOOR	DTS	DUAL TEMPERATURE SUPPLY	KH	KITCHEN HOOD	RPM	REVOLUTIONS PER MINUTE
ADD'L	ADDITIONAL	DTR	DUAL TEMPERATURE RETURN	KV	KITCHEN VENT	RR	RETURN REGISTER
ADJ	ADJUSTABLE	DWG	DRAWING	LAT	LEAVING AIR TEMPERATURE	SA	SUPPLY AIR
AF	AFTER FILTER	EA	EACH / EXHAUST AIR	LB	POUND	SCHED	SCHEDULE
AFF	ABOVE FINISHED FLOOR	EAH	EXHAUST AIR HOOD	LD	LINEAR DIFFUSER	SCHWP	SECONDARY CHILLED WATER PUMP
ALT	ALTERNATE	EAL	EXHAUST AIR LOUVER	LWT	LEAVING WATER TEMPERATURE	SD	SUCTION DIFFUSER
ALUM	ALUMINUM	EAT	ENTERING AIR TEMPERATURE	MAT'L	MATERIAL	SECT	SECTION
AP	ACCESS PANEL	EC	ELECTRICAL CONTRACTOR	MAV	MANUAL AIR VENT	SG	SUPPLY GRILLE
APPROX	APPROXIMATE	EF	EXHAUST FAN	MAX	MAXIMUM	SHWP	SECONDARY HOT WATER PUMP
ARCH	ARCHITECT(URAL)	EG	EXHAUST GRILLE	MBH	BTU'S PER HOUR, THOUSAND	SHT	SHEET
AUTO	AUTOMATIC	EL	ELEVATION	MC	MECHANICAL CONTRACTOR	SL	SOUND LINING
AVG	AVERAGE	ELEC	ELECTRIC/ELECTRICAL	MCW	MECHANICAL CITY WATER	SM	SURFACE MOUNT
BAS	BUILDING AUTOMATION SYSTEM	EQ	EQUAL	MECH	MECHANICAL	SPEC	SPECIFICATIONS
BBD	BALANCED BACKDRAFT DAMPER	EQUIP	EQUIPMENT	MFG/MFGR	MANUFACTURER	SPT	STATIC PRESSURE TRANSMITTER
BE	BOTTOM ELEVATION	EQUIV	EQUIVALENT	MIN	MINIMUM	SQ	SQUARE
BF	BUTTERFLY	ER	EXHAUST REGISTER	MISC	MISCELLANEOUS	SQ FT/SF	SQUARE FOOT (FEET)
BFP	BACKFLOW PREVENTER	ESP	EXTERNAL STATIC PRESSURE	MSW	MECHANICAL SOFT WATER	SQ IN	SQUARE INCHES
BLDG	BUILDING	ET	EXPANSION TANK	NA	NOT APPLICABLE	SR	SUPPLY REGISTER
BLR	BOILER	EUH	ELECTRIC UNIT HEATER	NC	NORMALLY CLOSED/NOISE CRITERIA	SS	STAINLESS STEEL
BOD	BOTTOM OF DUCT	EWH	ELECTRIC WATER HEATER	NG	NATURAL GAS	STD	STANDARD
BOP	BOTTOM OF PIPE	EWT	ENTERING WATER TEMPERATURE	NIC	NOT IN CONTRACT	STL	STEEL
BOT	BOTTOM	EXCL	EXCLUDING	NO	NORMALLY OPEN	STRUCT	STRUCTURAL
BP	BOOSTER PUMP	EXIST	EXISTING	NOM	NOMINAL	TCC	TEMPERATURE CONTROL CONTRACTOR
BTU	BRITISH THERMAL UNIT	EXP	EXPANSION	NTS	NOT TO SCALE	TCV	TEMPERATURE CONTROL VALVE
BTUH	BTU'S PER HOUR	°F	DEGREE FAHRENHEIT	OA	OUTSIDE AIR	TSP	TOTAL STATIC PRESSURE
BV	BALL VALVE	FD	FLAT DRAIN	OAH	OUTSIDE AIR HOOD	TSTAT	THERMOSTAT
CA	COMPRESSED AIR	FF	FINISHED FLOOR	OAL	OUTSIDE AIR LOUVER	TXV	THERMAL EXPANSION VALVE
CAF	COMBUSTION AIR FAN	FH	FIRE HYDRANT	OC	ON CENTER	TYP	TYPICAL
CCW	COUNTER CLOCKWISE	FL	FLOOR	OC	OCCUPANCY SENSOR	TW	TEMPERED WATER
CD	CEILING DIFFUSER	FOB	FLAT ON BOTTOM	OPG	OPENING	UG	UNDERGROUND
CFM	CUBIC FEET PER MINUTE	FOR	FUEL OIL RETURN	OSAY	OUTSIDE SCREW AND YOKE	UH	UNIT HEATER
CHV	CHECK VALVE	FOS	FUEL OIL SUPPLY	OZ	OUNCE	UON	UNLESS OTHERWISE NOTED
CH	CHILLER	FOT	FLAT ON TOP	PC	PLUMBING CONTRACTOR	UNO	UNLESS NOTED OTHERWISE
CHWP	CHILLED WATER PUMP	FPC	FIRE PROTECTION CONTRACTOR	PCHWP	PRIMARY CHILLED WATER PUMP	VAC	VACUUM
CHWR	CHILLED WATER RETURN	FPM	FEET PER MINUTE	PERIM	PERIMETER	VA	VALVE
CHWS	CHILLED WATER SUPPLY	FPVAV	FAN POWERED VAV	PF	PRE FILTER	VAV	VARIABLE AIR VOLUME
CI	CAST IRON	FS	FLOOR SINK	PH	PHASE	VD	VOLUME DAMPER
COL	COLUMN	GA	GAUGE	PHWP	PRIMARY HOT WATER PUMP	VERT	VERTICAL
CONN	CONNECTION	GALV	GALVANIZED	PI	PRESSURE INDICATOR	VFD	VARIABLE FREQUENCY DRIVE
CT	COOLING TOWER	GC	GENERAL CONTRACTOR	PLBG	PLUMBING	VOL	VOLUME
CU	CONDENSING UNIT	GPH	GALLONS PER HOUR	PRESS	PRESSURE	W	WITH
CUH	CABINET UNIT HEATER	GPM	GALLONS PER MINUTE	PRV	PRESSURE REDUCING VALVE	W/O	WITHOUT
CU FT	CUBIC FEET	HEX	HEAT EXCHANGER	PS	PRESSURE SWITCH	WB	WET BULB TEMPERATURE
CU IN	CUBIC INCH	HORIZ	HORIZONTAL	PSD	PLENUM SLOT DIFFUSER	WG	WATER GAUGE
CW	CLOCKWISE	HR	HOUR	PSI	POUND PER SQUARE INCH	WP	WEATHER PROOF
CWP	CONDENSING WATER PUMP	HT	HEAT TRACE	PSIA	POUND PER SQUARE INCH ABSOLUTE	XP	EXPLOSION PROOF
CWS	CONDENSING WATER SUPPLY	HVAC	HEATING, VENTILATING AND AIR CONDITIONING	PSIG	POUND PER SQUARE INCH GAUGE		
CWR	CONDENSING WATER RETURN	HWP	HOT WATER PUMP	PVC	POLYVINYL CHLORIDE		
DB	DRY BULB TEMPERATURE	HWR	HOT WATER RETURN	RCP	RECIRCULATION PUMP		
DDC	DIRECT DIGITAL CONTROL	HWS	HOT WATER SUPPLY	REF	REFERENCE		

MECHANICAL SYMBOLS

BALANCING VALVE
A=AUTOMATIC M=MANUAL CALIBRATED

CIRCUIT SENSOR (VENTURI)

GATE VALVE

BUTTERFLY VALVE

GLOBE VALVE

BALL VALVE

CHECK VALVE

GAS COCK

TEMPERATURE REGULATING VALVE

PRESSURE RELIEF VALVE

RELEIF VALVE

STRAINER

3-WAY VALVE

VALVE AND END CAP

UNION

FLANGED CONNECTION

REDUCER

ELBOW UP

PIPE TEE DOWN

ELBOW DOWN

INSERTION TYPE FLOW METER
STRAP-ON TYPE FLOW METER

PRESSURE TEMPERATURE TEST STATION (PTTS)

THERMOMETER

MANUAL AIR VENT (A=AUTOMATIC)

WATER FLOW TRANSMITTER

SUPPLY DIFFUSER

RETURN DIFFUSER

EXHAUST DIFFUSER

PLENUM SLOT DIFFUSER

DUCT TAP LEFT

DUCT TAP RIGHT

AIR FLOW DIRECTION

OPPOSED BLADE DAMPER

PARALLEL BLADE DAMPER

FIRE DAMPER (HORIZONTAL OR VERTICAL)

SMOKE DAMPER (HORIZONTAL OR VERTICAL)

COMBINATION SMOKE FIRE DAMPER

TEMPERATURE TRANSMITTER

BBD — BALANCED BACKDRAFT DAMPER

AAD — AUTOMATIC AIR DAMPER

MANUAL DAMPER

EQUIP. # T — THERMOSTAT OR TEMPERATURE SENSOR

STATIC PRESSURE TRANSMITTER

POC — POINT OF CONNECTION

POR — POINT OF REMOVAL

EQUIP. # S — DUCT SMOKE DETECTOR

EQUIP. # H — HUMIDITY TRANSMITTER

EQUIP. # CO — CARBON MONOXIDE SENSOR

EQUIP. # CO2 — CARBON DIOXIDE SENSOR

FLEXIBLE CONNECTION

FLEXIBLE CONNECTION

SQUARE ELBOW WITH TURNING VAINS

UP — DUCT RISE IN DIRECTION OF AIR FLOW

DN — DUCT DROP IN DIRECTION OF AIR FLOW

RECTANGULAR DUCT TO ROUND DUCT TRANSITION

S-12X8 — SUPPLY AIR (RECTANGULAR DUCT)
R=RETURN, E=EXHAUST, OA=OUTSIDE AIR

S-12 — SUPPLY AIR (ROUND DUCT)
R=RETURN, E=EXHAUST, OA=OUTSIDE AIR

CD-24-10
100 CFM

AIR DEVICE TYPE - DEVICE WIDTH (IN) - NECK SIZE (IN)
CFM INDICATED
CD=LAY-IN CEILING DIFFUSER, PD=PERFORATED DIFFUSER, LD=LINEAR DIFFUSER, RD=ROUND DIFFUSER, RG=RETURN GRILLE

DUCT TURN DOWN

DUCT TURN UP

INTERNALLY LINED DUCTWORK
(DIMENSIONS INDICATED ARE OUTSIDE SHEET METAL DIMENSIONS)

MANUFACTURED DOUBLE WALL DUCTWORK
(DIMENSIONS INDICATED ARE INSIDE SHEET METAL DIMENSIONS)

CHWS — CHILLED WATER SUPPLY

CHWR — CHILLED WATER RETURN

CWS — CONDENSING WATER SUPPLY

CWR — CONDENSING WATER RETURN

HWS — HOT WATER SUPPLY

HWR — HOT WATER RETURN

DTS — DUAL TEMPERATURE SUPPLY

DTR — DUAL TEMPERATURE RETURN

DR — DRAIN

RHG — REFRIGERANT HOT GAS

RL — REFRIGERANT LIQUID

RS — REFRIGERANT SUCTION

NEW DUCT OR PIPING

EXISTING DUCT OR PIPING

EXISTING DUCT OR PIPING TO BE REMOVED

CONTROL SYMBOL LEGEND

AI	ANALOG INPUT SIGNAL
AO	ANALOG OUTPUT SIGNAL
DI	DIGITAL INPUT SIGNAL
DO	DIGITAL OUTPUT SIGNAL
ES	END SWITCH
DPT	DIFFERENTIAL PRESSURE TRANSMITTER
SPT	STATIC PRESSURE TRANSMITTER
LTS	LOW TEMPERATURE SWITCH
AFT	AIR FLOW TRANSMITTER
ES	END SWITCH
NO	NORMALLY OPEN
NC	NORMALLY CLOSED
TT	TEMPERATURE TRANSMITTER
T	ROOM TEMPERATURE SENSOR
H	RELATIVE HUMIDITY SENSOR
S CO2	CARBON DIOXIDE SENSOR
DPS	DIFFERENTIAL PRESSURE SWITCH
HT	HUMIDITY TRANSMITTER
SD	DUCT MOUNTED SMOKE DETECTOR
CTS	CURRENT TRANSFORMER SWITCH

GENERAL NOTES (DEMOLITION):

A. UNLESS OTHERWISE NOTED, ALL DUCTWORK AND PIPING SHOWN DASHED AND DARK IS TO BE REMOVED.

B. CONTRACTOR TO COORDINATE DEMOLITION WITH OTHER TRADES BEFORE BEGINNING WORK.

C. REFER TO **M200** OR GENERAL NOTES AND ABBREVIATIONS.

D. CONTRACTOR SHALL TAKE OVERALL CFM MEASUREMENTS ON ALL EXISTING TO REMAIN EQUIPMENT PRIOR TO COMMENCING ANY DEMOLITION WORK. INFORMATION GATHERED SHALL BE UTILIZED FOR RE-BALANCING SYSTEM. CONTRACTOR SHALL RE-BALANCE ALL SYSTEMS AT THE CONCLUSION OF THE PROJECT.

E. THIS CONTRACTOR SHALL PATCH AND REPAIR ALL HOLES, DAMAGE OR MODIFICATIONS LEFT BY REMOVAL OF DUCTWORK AND REPAIR WALLS, FLOORS, CEILINGS, ETC. TO MATCH EXISTING. ALL PATCHING AND FINISHING SHALL BE PERFORMED BY A QUALIFIED TRADESPERSONS. ALL DEMOLITION WORK AND INSTALLATION SHALL BE COORDINATED WITH OWNER PRIOR TO STARTING.

F. ALL REMOVED EQUIPMENT IN WORKING ORDER SHALL BE REVIEWED BY THE OWNER'S REPRESENTATIVE. IF OWNER'S REPRESENTATIVE WISHES TO RETAIN THE EQUIPMENT, CONTRACTOR REMOVING EQUIPMENT SHALL DELIVER EQUIPMENT TO LOCATION AS DIRECTED BY THE OWNER'S REPRESENTATIVE. IF THE OWNER'S REPRESENTATIVE WISHES THE EQUIPMENT TO BE DISPOSED OF, THE CONTRACTOR REMOVING THE EQUIPMENT SHALL DISPOSE OF EQUIPMENT WITH NO ADDITIONAL COST TO THE OWNER.

GENERAL NOTES (NEW):

A. UNLESS OTHERWISE NOTED, ALL DUCTWORK AND PIPING SHOWN DARK IS NEW.

B. ALL WORK SHALL BE INSTALLED PER THE 2017 OHIO BUILDING CODE, 2017 OHIO MECHANICAL CODE AND ALL LOCAL APPLICABLE CODES.

C. VERIFY CONDITIONS IN THE FIELD PRIOR TO BID AND CONSTRUCTION.

D. WHERE CONFLICTS EXIST AMONG DRAWINGS, SPECIFICATIONS AND EQUIPMENT SCHEDULES, THE MORE STRINGENT SHALL APPLY.

E. REFER TO DRAWINGS **M200, M300 AND M400** FOR MECHANICAL DETAILS, DIAGRAMS AND SCHEDULES.

F. CONTRACTOR SHALL CAREFULLY COORDINATE DUCTWORK AND PIPING PATHWAY / LOCATIONS WITH OTHER TRADES AND EXISTING CONDITIONS. ALL DUCTWORK AND PIPING SHALL BE INSTALLED AS TIGHT TO THE STRUCTURE AS POSSIBLE. CONNECTIONS TO THE SUPPLY AIR DEVICES MAY BE MADE WITH FLEXIBLE DUCTWORK. REFER TO THE DETAIL ON DRAWING **M200** FOR FLEXIBLE DUCT CONNECTIONS. ALL CONDITIONS SHALL BE FIELD VERIFIED BEFORE ORDERING EQUIPMENT OR FABRICATED MATERIAL.

G. CONTRACTOR SHALL PROVIDE ALL ROOF OR WALL NON-COMBUSTIBLE FRAMING AS REQUIRED TO INSTALL EQUIPMENT, DUCTWORK, AND PIPING. COORDINATE NEW WORK WITH OTHER TRADES PRIOR TO BEGINNING CONSTRUCTION. NO WORK IS TO BE INSTALLED OR FABRICATED UNTIL AFTER THE PROJECT COORDINATION HAS BEEN APPROVED BY THE OWNER'S REPRESENTATIVE.

H. INSTALL A MANUAL BALANCE DAMPER IN ALL BRANCH DUCTS, INCLUDING ALL SUPPLY, RETURN, AND EXHAUST GRILLES.

I. INSTALL A SHUT-OFF VALVE IN ALL PIPING BRANCHES.

J. ALL SQUARE THROATED ELBOWS SHALL HAVE AIRFOIL TURNING VANES AND SHALL ONLY BE USED WHEN RADIUS ELBOWS WILL NOT FIT.

K. ALL ROUND BRANCH DUCT CONNECTIONS SHALL BE MADE WITH BELLMOUTH FITTINGS OR ANGLED TEES. STRAIGHT SPIN-IN TAP COLLARS SHALL NOT BE ACCEPTABLE.

L. ALL DAMPERS, VALVES, AND CONTROL COMPONENTS THAT ARE LOCATED ABOVE CEILINGS SHALL BE INSTALLED WHERE COMPLETELY ACCESSIBLE. CONTRACTOR SHALL PROVIDE ACCESS PANELS AS REQUIRED.

M. ALL NEW VARIABLE AIR VOLUME TERMINAL UNITS ARE TO BE INSTALLED WHERE COMPONENTS ARE COMPLETELY ACCESSIBLE. CONTRACTOR SHALL COORDINATE TO PROVIDE THE VAV UNIT WITH A CONTROL ENCLOSURE AND PIPE CONNECTIONS ON THE MOST ACCESSIBLE SIDE OF THE UNIT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING THE CORRECT LEFT OR RIGHT HAND CONFIGURATION. REFER TO THE APPLICABLE DETAIL ON DRAWING **M200** FOR ADDITIONAL REQUIREMENTS.

N. DUCTWORK CONNECTION TO DIFFUSER / VAV TO BE THE SAME SIZE AS THE NECK SIZE UNLESS OTHERWISE NOTED.

O. UNLESS OTHERWISE NOTED, ALL DUCTWORK SHALL BE FABRICATED FROM GALVANIZED STEEL METAL, INSTALLED IN ACCORDANCE WITH SMACNA DUCT CONSTRUCTION STANDARDS FOR GAUGE, REINFORCEMENT, AND SUPPORT; 2" W.G. PRESSURE CLASS FOR ALL DUCTWORK, UNLESS NOTED OTHERWISE. ALL JOINTS AND SEAMS SHALL BE SEALED AND FASTENED AND MADE AIRTIGHT IN ACCORDANCE OF CHAPTER 13 OF THE OBC.

P. CONTRACTOR SHALL TAKE OVERALL CFM MEASUREMENTS ON ALL EXISTING DUCTWORK TO REMAIN PRIOR TO COMMENCING ANY WORK. INFORMATION GATHERED SHALL BE UTILIZED FOR REBALANCING SYSTEM. CONTRACTOR SHALL REBALANCE ALL SYSTEMS AT THE CONCLUSION OF THE PROJECT.

Q. UL LISTED FIRESTOPPING SHALL BE USED AT ANY PENETRATION THROUGH A FIRE RATED ASSEMBLY. REFER TO ARCHITECTURAL CONSTRUCTION DOCUMENTS FOR LOCATIONS OR RATED ASSEMBLIES. CONTRACTOR SHALL USE UL LISTED FIRESTOP SYSTEM METHODS FOR "THROUGH-PENETRATION ASSEMBLIES." TYPICAL OF ALL FIRE RATED WALLS.

R. DUCTWORK AND PIPING SHALL BE SUPPORTED INDEPENDENT OF CEILING, CONDUIT, OTHER DUCTWORK, OTHER PIPING,ETC.

S. IN AREAS WHERE CEILINGS ARE NOT BEING REPLACED, AND CONTRACTOR HAS WORK ABOVE CEILINGS, CONTRACTOR SHALL PATCH AND REPAIR CEILINGS TO MATCH EXISTING.

T. CONTRACTOR SHALL COORDINATE ALL REQUIRED WALL PENETRATIONS FOR DUCT OR PIPING WITH GENERAL CONTRACTOR PRIOR TO CONSTRUCTION OF NEW WALLS. ALL DUCT PENETRATIONS SHALL BE IN COMPLIANCE WITH THE PROJECT SPECIFICATIONS. CONTRACTOR SHALL PERFORM ALL CUTTING AND PATCHING REQUIRED FOR DUCT PENETRATIONS THROUGH WALLS.

U. CONTRACTOR SHALL COORDINATE ALL REQUIRED ROOF OPENINGS FOR DUCTWORK WITH THE GENERAL CONTRACTOR.

V. CONTRACTOR SHALL PROVIDE ALL ADDITIONAL STEEL FRAMING AS REQUIRED TO INSTALL ROOF MOUNTED EQUIPMENT CURBS.

W. CONTRACTOR SHALL INSTALL ALL EQUIPMENT, DUCTWORK, PIPING, VALVES, INSULATION, SUPPORTS ETC. AS INDICATED OR AS REQUIRED TO ALLOW OPERATION AND USE OF ALL AREAS AND ALL SYSTEMS REQUIRED FOR OCCUPIED USE DURING CONSTRUCTION.

X. CONTRACTOR TO VERIFY EXISTING DUCTWORK / PIPING SUPPLY AND RETURN SYSTEM, SIZE, AND TYPE PRIOR TO MAKING CONNECTIONS.

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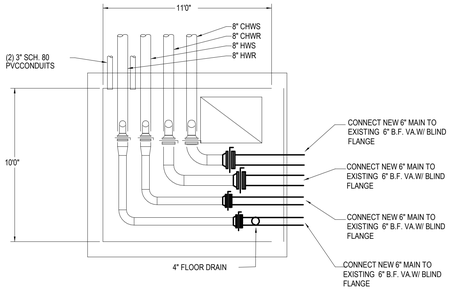
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	11/19/2021	DD SET
	01/18/2022	STRUCT. & UND.GRND.
	03/11/2022	UND.GRND. REVISION
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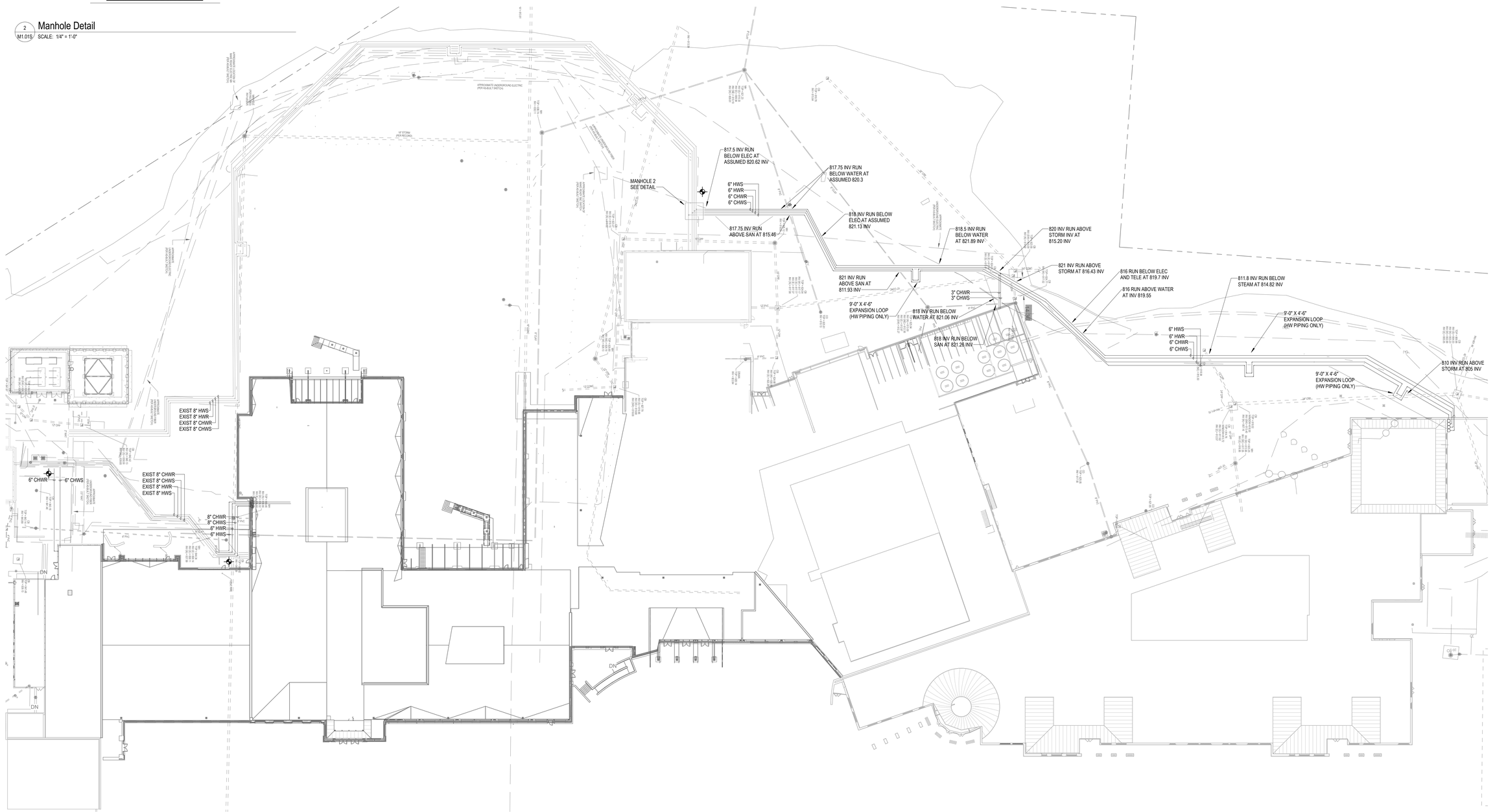
DRAWING TITLE:
MECHANICAL
GENERAL
INFORMATION

M0.00



PLAN AT MANHOLE 2

2 M1.01S Manhole Detail
SCALE: 1/4" = 1'-0"



1 M1.01S MECHANICAL SITE PLAN
SCALE: 1/32" = 1'-0"

DRAWING NOTES:

A. REFER TO SHEET M000 FOR GENERAL NOTES, LEGENDS, AND ABBREVIATIONS.

(X) GENERAL NOTES:

1. ALL MECHANICAL PIPING TO BE RUN AT 5' 0" BELOW GROUND UNLESS OTHERWISE NOTATED ON PLAN.

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DRAWING TITLE:
MECHANICAL SITE PLAN

M1.01S

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SCHEDULE OF AIR HANDLING UNITS

DESIGNATION	FURNISHED BY	AREA SERVED	UNIT OPERATING WEIGHT LBS	FAN DATA														ELECTRICAL SUPPLY VOLT/FREQ/PH	MINIMUM OA AIR DESIGN, CFM	COIL DATA														FILTER DATA	BASIS OF DESIGN MFGR. / MODEL NO.	REMARKS
				FAN FUNCTION	FAN TYPE	WHEEL SIZE	FAN CLASS	NO. OF FANS / MOTORS	TOTAL AIR FLOW CFM	INDIVID. FAN AIR FLOW CFM	TSP, IN. WG	ESP, IN. WG	FAN RPM	NOMINAL MOTOR RPM	DESIGN VFD SETTING HZ	IND. MOTOR SIZE, HP	INDIVID. FAN BHP	TOTAL FAN BHP	FAN WALL MCA AMPS	FAN WALL MOCP AMPS			COIL TYPE	NO. OF COILS	TOTAL COIL AIR FLOW, CFM	EAT DB, DEG F	EAT WB, DEG F	LAT DB, DEG F	LAT WB, DEG F	TOTAL COIL CAPACITY MBH	SENSIBLE COIL CAPACITY MBH	WATER COIL DATA: FLUID MEDIA	APD, IN. WG	NO. OF ROWS	FINS PER INCH	CONN. SIZE	FACE VEL, FPM	FACE AREA, SF	FLOW GPM	WPD FT. WG	EWT, DEG F	LWT, DEG F			
AHU-M1	OWNER	FIRST AND SECOND FLOOR WEST WING AND COMMONS	51306	SUPPLY	FAN ARRAY	182	I I	8	50,000	6,250	7.00	2.20	3,151	3,600	60.0	15.0	11.77	94.16	144.4	150.0	460 / 60 / 3	25,000	HW	3	50,000	55.0	-----	91.4	-----	1,954	1,954	30% PG	0.09	1	9	3	413	121.1	174	9.3	180	156.4	SEE FILTER SCHEDULE	MILLER PICKING	ENERGY RECOVERY WHEEL
				RETURN	FAN ARRAY	222	I I	8	50,000	6,250	3.00	0.58	1,632	1,200	60.0	5.0	4.9	39.20	59.4	60.0			CHW	3	50,000	80.0	67.0	53.0	52.9	2,073	1,409	30% PG	0.77	8	10	3	413	121.1	488	14.6	45	53.9			
AHU-M2	OWNER	FIRST AND SECOND FLOOR NORTH WING AND CONNECTOR	37445	SUPPLY	FAN ARRAY	182	I I	6	35,000	5,833	7.00	2.39	3,061	3,600	60.0	15.0	10.87	65.22	109.4	125.0	460 / 60 / 3	17,500	HW	3	35,000	55.0	-----	91.4	-----	1,367	1,367	30% PG	0.09	1	9	3	406	86.1	135	4.4	180	158.8	SEE FILTER SCHEDULE	MILLER PICKING	ENERGY RECOVERY WHEEL
				RETURN	FAN ARRAY	200	I I	6	35,000	5,833	2.98	0.18	1,911	1,800	60.0	5.0	4.8	28.80	41.9	45.0			CHW	3	35,000	80.0	67.0	51.5	51.4	1507.0	995	30% PG	0.94	8	12	3	406	86.1	357	16.4	45	54.3			
AHU-M3	OWNER	GYMNASIUM AND KITCHEN	37833	SUPPLY	FAN ARRAY	182	I I	6	30,000	5,000	7.00	2.45	2,905	3,600	60.0	15.0	9.26	55.56	109.4	125.0	460 / 60 / 3	15,000	HW	3	30,000	55.0	-----	91.0	-----	1,161	1,161	30% PG	0.09	1	9	3	416	72.2	125	3.3	180	160.5	SEE FILTER SCHEDULE	MILLER PICKING	ENERGY RECOVERY WHEEL
				RETURN	FAN ARRAY	165	I I	6	30,000	5,000	3.00	0.22	2,620	1,800	60.0	5.0	4.7	28.20	41.9	45.0			CHW	3	30,000	80.0	67.0	50.6	50.6	1413.0	922	30% PG	0.93	12	9	3	416	72.2	331	13.6	45	54			
AHU-M4	OWNER	DISTRICT OFFICE AND MIDDLE SCHOOL OFFICE	17865	SUPPLY	FAN ARRAY	150	I I	2	10,000	5,000	7.00	2.01	3,725	3,600	60.0	10.0	9.27	18.54	26.1	35.0	460 / 60 / 3	4000	HW	2	10,000	55.0	-----	85.1	-----	323	323	30% PG	0.09	1	8	1 1/2	418	23.9	34	1.3	180	160.1	SEE FILTER SCHEDULE	MILLER PICKING	ENERGY RECOVERY WHEEL DX COOLING COIL
				RETURN	FAN ARRAY	150	I I	2	10000	5000	3	0.29	3441	3600	60.0	7.5	5.2	10.4	13.1	17.5			CHW	2	10,000	85.0	67.0	59.0	57.9	281.0	220	30% PG	0.52	4	12	2	418	23.9	62	9.6	45	54.5			
																							DX	2	10,000	80.0	67.0	54.7	53.8	392.0	264	R-410a	0.57	4	11	2 1/8	418	23.9	-----	3.8	-----	-----			

VARIABLE AIR VOLUME TERMINAL UNIT SCHEDULE (PART 1)

DESIGNATION	AREA SERVED ROOM NUMBER(S)	AREA SERVED ROOM NAME(S)	INLET SIZE (IN)	CAPACITY MAX CFM	CAPACITY MIN CFM	HOT WATER REHEAT COIL EAT	LAT	CAPACITY (BTU/HR)	HEATING FLUID	NO. OF ROWS	FLOW (GPM)	WPD (FT. WG.)	PIPE SIZE (INCHES)	MIN. AIR PRESSURE DROP (IN. WG.)	BASIS OF DESIGN MANUFACTURER	MODEL	REMARKS
VAV-1-1-1	151	SOCIAL STUDIES	12	960	908	55	90	33.4	GLYCOL	2	1.87	0.44	3/4	0.35	PRICE	SDV	
VAV-1-1-2	152	SOCIAL STUDIES	12	960	1014	55	90	33.4	GLYCOL	2	2.03	0.44	3/4	0.35	PRICE	SDV	
VAV-1-1-3	153	ENGLISH	12	920	1014	55	90	33.4	GLYCOL	2	1.90	0.40	3/4	0.35	PRICE	SDV	
VAV-1-1-4	154	ENGLISH	12	920	892	55	90	33.4	GLYCOL	2	1.83	0.40	3/4	0.35	PRICE	SDV	
VAV-1-1-5	155	INTERVENTION	9	680	300	55	90	25.8	GLYCOL	2	1.61	0.19	3/4	0.23	PRICE	SDV	
VAV-1-1-6	146B, 145	6TH GRADE CORRIDOR NORTH, 6TH GRADE LOCKERS	7	480	266	55	90	18.3	GLYCOL	2	1.37	0.09	3/4	0.24	PRICE	SDV	
VAV-1-1-7	146A, 145	6TH GRADE CORRIDOR SOUTH, 6TH GRADE LOCKERS	7	400	226	55	90	15.3	GLYCOL	2	0.94	0.06	3/4	0.17	PRICE	SDV	
VAV-1-1-8	146	6TH GRADE COMMONS	10	860	510	55	90	32.7	GLYCOL	2	2.31	0.37	3/4	0.34	PRICE	SDV	
VAV-1-1-9	146	6TH GRADE COMMONS	10	860	494	55	90	32.7	GLYCOL	2	2.31	0.37	3/4	0.34	PRICE	SDV	
VAV-1-1-10	139, 140, 141, 142, 143, 144	RR, JAN, RR, MENS RR, WOMENS RR, RR,	6	280	0	55	90	12.1	GLYCOL	2	0.68	0.03	3/4	0.16	PRICE	SDV	
VAV-1-1-11	133, 133A,136	FACULTY, STORAGE, STORAGE	7	440	200	55	90	16.8	GLYCOL	2	1.20	0.07	3/4	0.20	PRICE	SDV	
VAV-1-1-12	150	MATH	12	1040	908	55	90	39.6	GLYCOL	2	2.29	0.55	3/4	0.28	PRICE	SDV	
VAV-1-1-13	149	SCIENCE	12	1000	1066	55	90	37.9	GLYCOL	2	2.16	0.49	3/4	0.26	PRICE	SDV	
VAV-1-1-14	148	SCIENCE	12	1000	1068	55	90	37.9	GLYCOL	2	2.16	0.49	3/4	0.26	PRICE	SDV	
VAV-1-1-15	147	MATH	12	920	888	55	90	33.4	GLYCOL	2	1.90	0.40	3/4	0.35	PRICE	SDV	
VAV-1-1-16	132	INNOVATION COACH	6	320	446	55	90	12.1	GLYCOL	2	0.40	0.03	3/4	0.16	PRICE	SDV	
VAV-1-1-17	131	ART	12	1200	1176	55	90	12.1	GLYCOL	2	2.85	0.81	3/4	0.16	PRICE	SDV	
VAV-1-1-18	130	ART	14	1400	1382	55	90	42.6	GLYCOL	2	3.01	0.67	3/4	0.32	PRICE	SDV	
VAV-1-1-18A	130A, 130B	ART STORAGE, KILN ROOM	5	160	112	55	90	6.1	GLYCOL	1	0.37	0.09	3/4	0.03	PRICE	SDV	
VAV-1-1-19	125	PROJECT LAB	12	1160	1002	55	90	54.6	GLYCOL	2	2.70	0.40	3/4	0.26	PRICE	SDV	
VAV-1-1-20	104	ENGINEERING	12	1160	1048	55	90	44.1	GLYCOL	2	2.70	0.74	3/4	0.33	PRICE	SDV	
VAV-1-1-21	103, 103A, 103B, 103C, 103D	MEDIA COMMONS, VIDEO, AUDIO, STORAGE	16	2250	866	55	90	44.1	GLYCOL	2	3.42	0.74	3/4	0.33	PRICE	SDV	
VAV-1-1-22	101	CENTRAL COORIDOR	9	660	365	55	90	25.1	GLYCOL	2	1.53	0.18	3/4	0.22	PRICE	SDV	
VAV-1-1-23	101	CENTRAL COORIDOR	9	660	365	55	90	25.1	GLYCOL	2	1.53	0.18	3/4	0.22	PRICE	SDV	
VAV-1-1-24	157, 157A, 157B	LEARNING LAB, STORAGE	12	920	474	55	90	34.9	GLYCOL	2	1.20	0.40	3/4	0.23	PRICE	SDV	
VAV-1-1-25	107	HEALTH	12	960	886	55	90	36.4	GLYCOL	2	1.90	0.44	3/4	0.24	PRICE	SDV	
VAV-1-1-26	106	HEALTH	12	1080	888	55	90	41.0	GLYCOL	2	2.42	0.60	3/4	0.30	PRICE	SDV	
VAV-1-1-27	127, 127A	FAB SHOP	9	640	560	55	90	15.3	GLYCOL	2	1.46	0.06	3/4	0.17	PRICE	SDV	
VAV-1-1-28	126	THINK TANK	7	480	556	55	90	18.3	GLYCOL	2	1.37	0.09	3/4	0.24	PRICE	SDV	
VAV-1-2-1	227	SOCIAL STUDIES	12	1240	910	55	90	47.0	GLYCOL	2	3.02	0.89	3/4	0.37	PRICE	SDV	
VAV-1-2-2	228	SOCIAL STUDIES	12	920	914	55	90	34.9	GLYCOL	2	1.90	0.40	3/4	0.23	PRICE	SDV	
VAV-1-2-3	229	ENGLISH	12	920	1016	55	90	34.9	GLYCOL	2	1.18	1.90	3/4	0.23	PRICE	SDV	
VAV-1-2-4	231	ENGLISH	12	920	892	55	90	33.4	GLYCOL	2	1.90	0.39	3/4	0.35	PRICE	SDV	
VAV-1-2-5	232	INTERVENTION	10	800	288	55	90	30.3	GLYCOL	2	2.07	0.30	3/4	0.30	PRICE	SDV	
VAV-1-2-6	222B, 221	8TH GRADE CORRIDOR NORTH, 7TH GRADE LOCKERS	12	1180	272	55	90	44.7	GLYCOL	2	2.78	0.77	3/4	0.34	PRICE	SDV	
VAV-1-2-7	222A, 221	8TH GRADE CORRIDOR SOUTH, 7TH GRADE LOCKERS	12	1100	228	55	90	41.7	GLYCOL	2	2.50	0.63	3/4	0.31	PRICE	SDV	
VAV-1-2-8	222	8TH GRADE COMMONS	12	1280	482	55	90	48.6	GLYCOL	2	3.17	0.99	3/4	0.40	PRICE	SDV	
VAV-1-2-9	222	8TH GRADE COMMONS	12	1280	520	55	90	48.6	GLYCOL	2	3.17	0.99	3/4	0.40	PRICE	SDV	
VAV-1-2-10	215, 216, 217, 218,219	RR, MENS RR, WOMENS RR, RR, RR	5	200	0	55	90	7.7	GLYCOL	1	1.99	0.42	3/4	0.03	PRICE	SDV	
VAV-1-2-11	208, 212	FACULTY RESOURCE, STORAGE	7	360	220	55	90	13.6	GLYCOL	2	0.77	0.04	3/4	0.14	PRICE	SDV	
VAV-1-2-12	207	BREAK OUT	7	360	454	55	90	13.6	GLYCOL	2	0.77	0.04	3/4	0.14	PRICE	SDV	
VAV-1-2-13	226	MATH	12	1280	908	55	90	48.6	GLYCOL	2	3.17	0.99	3/4	0.40	PRICE	SDV	
VAV-1-2-14	225	SCIENCE	16	2160	1066	55	90	82.0	GLYCOL	2	4.66	1.04	1	0.36	PRICE	SDV	
VAV-1-2-15	224	SCIENCE	16	2120	1068	55	90	80.4	GLYCOL	2	4.53	0.98	3/4	0.35	PRICE	SDV	
VAV-1-2-16	223	MATH	12	920	446	55	90	34.9	GLYCOL	2	1.90	0.40	3/4	0.23	PRICE	SDV	
VAV-1-2-17	211,210	LATIN, GROUP ROOM	12	1080	974	55	90	41.0	GLYCOL	2	2.42	0.60	3/4	0.30	PRICE	SDV	
VAV-1-2-18	209	LATIN	12	1080	678	55	90	41.0	GLYCOL	2	2.42	0.60	3/4	0.30	PRICE	SDV	
VAV-1-2-19	206	SPANISH	12	1040	880	55	90	39.6	GLYCOL	2	2.29	0.39	3/4	0.28	PRICE	SDV	
VAV-1-2-20	205, 204	SPANISH, GROUP ROOM	14	1360	726	55	90	51.6	GLYCOL	2	2.77	1.19	3/4	0.44	PRICE	SDV	
VAV-1-2-21	203, 202	SPANISH, GROUP ROOM	12	1200	1162	55	90	45.6	GLYCOL	2	2.85	0.81	3/4	0.35	PRICE	SDV	
VAV-1-2-22	200	CENTRAL CORRIRDOR	10	820	396	55	90	31.2	GLYCOL	2	2.14	0.32	3/4	0.31	PRICE	SDV	
VAV-1-2-23	200	CENTRAL CORRIRDOR	10	820	369	55	90	31.2	GLYCOL	2	2.14	0.32	3/4	0.31	PRICE	SDV	
VAV-1-2-24	200A	TREEHOUSE	10	840	1010	55	90	31.9	GLYCOL	2	2.24	0.34	3/4	0.33	PRICE	SDV	
VAV-1-2-25	102	COMMONS	12	1000	688	55	90	37.9	GLYCOL	2	2.16	0.49	3/4	0.26	PRICE	SDV	
				51050													
VAV-2-1-1	185	NORTH CORRIDOR	7	400	342	55	90	24.3	GLYCOL	2	0.94	0.06	3/4	0.21	PRICE	SDV	
VAV-2-1-2	186	SPEECH	7	480	472	55	90	18.3	GLYCOL	2	1.37	0.09	3/4	0.24	PRICE	SDV	
VAV-2-1-3	187, 187A	TESOL, TESTING	8	520	490	55	90	16.8	GLYCOL	2	1.55	0.07	3/4	0.20	PRICE	SDV	
VAV-2-1-4	188,188A,189	RESOURCE, RR, LIFE SKILLS	12	1080	648	55	90	33.4	GLYCOL	2	2.42	0.39	3/4	0.35	PRICE	SDV	
VAV-2-1-5	190, 190A, 190B	OT/PT, REST, SENSORY	7	360	162	55	90	13.6	GLYCOL	2	0.77	0.04	3/4	0.14	PRICE	SDV	
VAV-2-1-6	001	THEATER LOBBY	0	3000	550	55	90	113.7	GLYCOL	2	7.86	2.96	1	0.64	PRICE	SDV	
VAV-2-1-7	020, 021	BRAVES LINE	6	320	116	55	90	12.1	GLYCOL	2	0.88	0.03	3/4	0.16	PRICE	SDV	
VAV-2-1-8	057, 059,	AD RECEPTION, CONFERENCE, STORAGE	7	400	336	55	90	15.3	GLYCOL	2	0.94	0.06	3/4	0.17	PRICE	SDV	
VAV-2-1-9	058	AD OFFICE	5	200	26	55	90	7.7	GLYCOL	1	1.99	0.42	3/4	0.03	PRICE	SDV	
VAV-2-1-10	050	ATHLETICS LOBBY	16	1600	580	55	90	60.8	GLYCOL	2	3.01	0.48	3/4	0.22	PRICE	SDV	
VAV-2-1-11	034	OFFICE	7	400	44	55	90	15.3	GLYCOL	2	0.94	0.06	3/4	0.17	PRICE	SDV	
VAV-2-1-12	035	CONCESSION HALLWAY	7	400	142	55	90	15.2	GLYCOL	3	0.53	0.06	3/4	0.26	PRICE	SDV	
VAV-2-1-13	003, 004, 185	NORTH CORRIDOR	5	160	342	55	90	27.3	GLYCOL	2	0.29	0.22	3/4	0.25	PRICE	SDV	
VAV-2-1-14	014, 018	MUSIC CORRIDOR, STORAGE	7	480	173	55	90		GLYCOL		0.90				PRICE	SDV	
VAV-2-1-15	005A	LIBRARY/STORAGE	5	200	170	55	90		GLYCOL		0.33				PRICE	SDV	
VAV-2-1-16	005	BLACKBOX THEATER	24x16	3400	2736	55	90		GLYCOL		9.76				PRICE	SDV	
VAV-2-1-17	008	ENSEBLE	5	160	140	55	90		GLYCOL		0.25				PRICE	SDV	
VAV-2-1-18	009	ENSEMBLE	6	280	140	55	90		GLYCOL		0.53				PRICE	SDV	
				13840													

VARIABLE AIR VOLUME TERMINAL UNIT SCHEDULE (PART 2)

DESIGNATION	AREA SERVED ROOM NUMBER(S)	AREA SERVED ROOM NAME(S)	INLET SIZE (IN)	CAPACITY MAX CFM	CAPACITY COOLING MIN CFM	HOT WATER REHEAT COIL EAT	LAT	CAPACITY (BTU/HR)	HEATING FLUID	NO. OF ROWS	FLOW (GPM)	WPD (FT. WG.)	PIPE SIZE (INCHES)	MIN. AIR PRESSURE DROP (IN. WG.)	BASIS OF DESIGN MANUFACTURER	MODEL	REMARKS
VAV-2-1-19	007	OFFICE	4	120	40	55	90		GLYCOL		0.35				PRICE	SDV	
VAV-2-1-20	016, 017	LIBRARY, STORAGE	4	120	120	55	90		GLYCOL		0.46				PRICE	SDV	
VAV-2-1-21	013	ORCHESTRA	16	2200	1734	55	90		GLYCOL		3.32				PRICE	SDV	
VAV-2-1-22	019	ENSEMBLE	7	360		55	90		GLYCOL		0.77				PRICE	SDV	
VAV-2-1-23	018	ENSEMBLE	6	280		55	90		GLYCOL		0.53				PRICE	SDV	
VAV-2-1-24	014	MUSIC CORRIDOR, STORAGE	7	400	115	55	90		GLYCOL		0.79				PRICE	SDV	
VAV-2-1-25	006	MS CHORAL	24X16	3400	2710	55	90		GLYCOL		5.91				PRICE	SDV	
VAV-2-2-1	236, 237, 238, 239, 240, 241	RR, MENS RR, WOMENS RR, RR, RR, JAN	6	320	0	55	90	12.1	GLYCOL	2	0.88	0.03	3/4	0.16	PRICE	SDV	
VAV-2-2-2	201	FRENCH	12	1000	866	55	90	37.9	GLYCOL	2	2.16	0.49	3/4	0.26	PRICE	SDV	
VAV-2-2-3	254	ENGLISH	12	1200	894	55	90	45.6	GLYCOL	2	2.85	0.81	3/4	0.35	PRICE	SDV	
VAV-2-2-4	253	ENGLISH	12	1320	894	55	90	50.2	GLYCOL	2	3.33	1.08	3/4	0.42	PRICE	SDV	
VAV-2-2-5	252	INTERVENTION	10	880	308	55	90	33.4	GLYCOL	2	2.40	0.39	3/4	0.35	PRICE	SDV	
VAV-2-2-6	251	MATH	12	1320	896	55	90	50.2	GLYCOL	2	3.33	1.08	3/4	0.42	PRICE	SDV	
VAV-2-2-7	250	SCIENCE	12	1040	1018	55	90	39.4	GLYCOL	2	2.29	0.55	3/4	0.24	PRICE	SDV	
VAV-2-2-8	249	SCIENCE	12	1040	1018	55	90	39.4	GLYCOL	2	2.29	0.55	3/4	0.24	PRICE	SDV	
VAV-2-2-9	248	MATH, STORAGE	12	1155	904	55	90	42.6	GLYCOL	2	2.69	0.67	3/4	0.32	PRICE	SDV	
VAV-2-2-10	245	SOCIAL STUDIES	12	1040	892	55	90	39.6	GLYCOL	2	2.29	0.55	3/4	0.28	PRICE	SDV	
VAV-2-2-11	246	SOCIAL STUDIES	12	1000	894	55	90	37.9	GLYCOL	2	2.16	0.49	3/4	0.26	PRICE	SDV	
VAV-2-2-12	235	DISCOVERY	10	880	688	55	90	33.4	GLYCOL	2	2.40	0.39	3/4	0.35	PRICE	SDV	
VAV-2-2-13	242-1, 243A	7TH GRADE CORRIDOR A, LOCKERS	8	560	317	55	90	21.3	GLYCOL	2	1.75	0.13	3/4	0.30	PRICE	SDV	
VAV-2-2-14	242-2, 243B	7TH GRADE CORRIDOR B, LOCKERS	8	560	255	55	90	21.3	GLYCOL	2	1.75	0.13	3/4	0.30	PRICE	SDV	
VAV-2-2-15	244	7TH GRADE COMMONS	9	680	482	55	90	26.0	GLYCOL	3	0.96	0.06	3/4	0.34	PRICE	SDV	
VAV-2-2-16	244	7TH GRADE COMMONS	9	680	518	55	90	26.0	GLYCOL	3	0.96	0.06	3/4	0.34	PRICE	SDV	
VAV-2-2-17	244A, 244.B	GROUP ROOM, GROUP ROOM	5	240	236	55	90	9.2	GLYCOL	1	1.73	1.25	3/4	0.06	PRICE	SDV	
				39635	35000												
VAV-3-1-1	EX 100	EX GYM	24X16	8340	8606	55	90	316.0	GLYCOL	3	13.95	5.81	1 1/4	2.75	PRICE	SDV	
VAV-3-1-2	EX 100	EX GYM	24X16	8340	8606	55	90	316.0	GLYCOL	3	13.95	5.81	1 1/4	2.75	PRICE	SDV	
VAV-3-1-3	EX103, EX104	WOMENS RR, WOMENS LOCKER	7	440	0	55	90	16.7	GLYCOL	2	1.20	0.07	3/4	0.27	PRICE	SDV	
VAV-3-1-4	EX106, EX107	MENS RR, MENS LOCKER	7	480	0	55	90	18.3	GLYCOL	2	1.37	0.09	3/4	0.31	PRICE	SDV	
VAV-3-1-5	119,120	OFFICE, OFFICE, OFFICE	6	280	82	55	90	10.8	GLYCOL	2	0.68	0.02	3/4	0.13	PRICE	SDV	
VAV-3-1-6	117,EX111	WORKROOM, CUSTODIAL STORAGE	10	720	200	55	90	26.8	GLYCOL	2	1.75	0.19	3/4	0.23	PRICE	SDV	
VAV-3-1-7	112	KITCHEN, STORAGE	10	880	0	55	90	33.4	GLYCOL	2	2.40	0.39	3/4	0.35	PRICE	SDV	
VAV-3-1-8	114	KITCHEN OFFICE	4	120	30	55	90	1.8	GLYCOL	1	0.69	0.08	3/4	0.00	PRICE	SDV	
VAV-3-1-9	EX120	CORRIDOR	4	125	82	55	90	4.9	GLYCOL	1	0.74	0.08	3/4	0.02	PRICE	SDV	
VAV-3-1-10B	123	ELECTRICAL	8	560	365	55	90	21.3	GLYCOL	2	0.81	1.75	3/4	0.30	PRICE	SDV	
VAV-3-1-10	124	FACLITY WORKSHOP	7	440	84	55	90	16.7	GLYCOL	2	0.66	1.70	3/4	0.27	PRICE	SDV	
VAV-3-1-11	111	SERVERY	7	480	0	55	90	18.3	GLYCOL	2	1.37	0.09	3/4	0.24	PRICE	SDV	
VAV-3-1-12	113	WARE WASHING	5	160	0	55	90	6.1	GLYCOL	1	1.19	0.16	3/4	0.02	PRICE	SDV	
VAV-3-1-13	109	DINING COMMONS	24X16	3780		55	90	143.3	GLYCOL	2	6.84	3.26	1	0.48	PRICE	SDV	
VAV-3-1-14	109, 109A	DINING COMMONS, DINING CORRIDOR	24X16	4180		55	90	158.3	GLYCOL	2	7.89	4.36	1 1/4	0.57	PRICE	SDV	
VAV-3-1-15	105	CORRIDOR	7	400	184	55	90	15.3	GLYCOL	2	0.94	0.06	3/4	0.17	PRICE	SDV	
				29725	30000												
VAV-4-1-1	180, 181, 182, 183	RR, MENS RR, WOMENS RR, RR	5	160	0	55	90	6.1	GLYCOL	1	1.19	0.16	3/4	0.02	PRICE	SDV	
VAV-4-1-2	161	CONF	7	400	144	55	90	15.3	GLYCOL	2	0.94	0.06	3/4	0.17	PRICE	SDV	
VAV-4-1-3	162, 162A, 162B, 162C	NURSE, ISO, ISO, RR	5	160	76	55	90	6.1	GLYCOL	1	1.19	0.16	3/4	0.02	PRICE	SDV	
VAV-4-1-4	160	RECEPTION	5	240	136	55	90	9.2	GLYCOL	1	3.32	1.25	3/4	0.05	PRICE	SDV	
VAV-4-1-5	160A	RECEPTION	4	120	72	55	90	4.9	GLYCOL	1	0.69	0.08	3/4	0.02	PRICE	SDV	
VAV-4-1-6	171	CONFERENCE	6	320	128	55	90	12.1	GLYCOL	2	0.88	0.03	3/4	0.16	PRICE	SDV	
VAV-4-1-7	172	OFFICE	6	280	34	55	90	10.8	GLYCOL	2	0.68	0.02	3/4	0.13	PRICE	SDV	
VAV-4-1-8	173	OFFICE	6	280	32	55	90	10.8	GLYCOL	2	0.68	0.02	3/4	0.13	PRICE	SDV	
VAV-4-1-9	163, 168, 169	ADMIN CORRIDOR, STORAGE, BREAK/COPY WORK	7	400	288	55	90	15.3	GLYCOL	2	0.94	0.06	3/4	0.17	PRICE	SDV	
VAV-4-1-10	170	BRAVE ROOM	6	280	130	55	90	10.8	GLYCOL	2	0.68	0.02	3/4	0.13	PRICE	SDV	
VAV-4-1-11	176	COUNSELORS OFFICE	4	120	30	55	90	4.9	GLYCOL	1	0.69	0.08	3/4

FAN POWERED VAV BOX SCHEDULE

DESIGNATION	AREA SERVED	INLET SIZE	MIN. INLET STATIC PRESSURE (IN. WG.)	MAX. COOL CFM	MIN. COOL CFM	HEATING CFM	CAPACITY BTU/HR	FLOW GPM	CAPACITY TYPE	NO. OF ROWS	WPD (IN WG)	EAT (Deg. F)	LAT (Deg. F)	FLUID TYPE	EWT (Deg. F)	LWT (Deg. F)	FAN INFORMATION		TCV TYPE	SOUND DATA (WITH 1.0 IN WC PD)		ELECTRICAL DATA			BASIS OF DESIGN		ACCESSORIES
																	AIR FLOW (CFM)	ESP IN. WC.		DISCHAGE NC	RADIATED NC	VOLTS / PH / HZ	HP	FLA	MANUFACTURER	MODEL NO.	
FPVAV-1-1	GYM CORRIDOR	10	0.06	320	65	320	6600	0.4	STANDARD	2	0.1	69	88.0	WATER	180	147.0	320	0.25	2 WAY	< 20	< 20	120 / 1 / 60					
FPVAV-1-2	ENTRY VESTIBULE	16	0.05	2000	650	2000	46600	2.6	STANDARD	1	1.3	69	90.5	WATER	180	144.2	2000	0.25	2 WAY	< 20	20	120 / 1 / 60					
FPVAV-4-1	THEATER ENTRY VESTIBULE	16	0.06	2000	650	2000	46600	2.6	STANDARD	2	1.3	69	90.5	WATER	180	144.2	2000	0.25	2 WAY	< 20	20	120 / 1 / 60					

EXHAUST FAN SCHEDULE

DESIGNATION	SERVES	FAN TYPE	AIR FLOW CFM	ESP IN. WG.	WEIGHT LBS W/ACCS	DRIVE TYPE	RPM	BHP	SONES	ELECTRICAL DATA		MOTOR EFFICIENCY TYPE	VARIABLE SPEED DRIVE	INTEGRAL DISCONNECT	DDC OUTPUT CONTACT	CONTROL METHOD	BASIS OF DESIGN		NOTES
										VOLTS/PH/HZ	MOTOR HP						MANUFACTURER	MODEL NO.	
EF-1	KITCHEN HOOD	CENTRIFUGAL UPBLAST	6410	1.125	327	BELT	1140	1.5	20.0	460/3/60	5	NEMA Premium	YES	YES	YES	WALL SWITCH	GREENHECK	CUE-240-VG	1
EF-2	WARE WASHING HOOD	CENTRIFUGAL UPBLAST	1000	0.5	52	DIRECT	1684	.23	11.5	277/1/60	1/4		YES			WALL SWITCH	GREENHECK	CUE-090-VG	1
EF-3	LOCKER ROOMS	CENTRIFUGAL UPBLAST	1260	0.5	60	DIRECT	1321	.21	11.3	277/1/60	1/4		YES			BAS	GREENHECK	CUE-120-VG	1,2
EF-4	ART CLASSROOMS, 6TH GRADE WING, 8TH GRADE WING	CENTRIFUGAL UPBLAST	7625	1.25	261	DIRECT	1085	3.27	26	460/3/60	5		YES			BAS	GREENHECK	CUE-240-VG	1,2
EF-5	7TH GRADE WING, LIFE SKILLS, DISTRICT OFFICE, MS OFFICE	INLINE	3800	0.75	171	DIRECT	1381	.81	16.7	208/1/60	2		YES			BAS	GREENHECK	SQ-16-07-0700-VG	
EF-6	KILN ROOM	CENTRIFUGAL UPBLAST	200	0.5	56	DIRECT	1191	.04	4.4	277/1/60	1/4		YES			BAS	GREENHECK	CUE-100HP-VG	1,2
EF-7	AUDITORIUM RR	CENTRIFUGAL UPBLAST	350	0.5	45	DIRECT	1370	.07	6.8	115/1/60	1/6		YES			WALL SWITCH	GREENHECK	CUE-095-VG	1,2
EF-8	CONNECTOR RR	CENTRIFUGAL UPBLAST	950	0.5	45	DIRECT	1439	.17	8.8	115/1/60	1/4		YES			BAS	GREENHECK	CUE-100-VG	1,2

NOTES:
1. FURNISH ROOFCURB WITH FAN
2. FURNISH BACKDRAFT DAMPER

AIR COOLED CONDENSING UNIT SCHEDULE

SYMBOL	SERVES	CAPACITY (TONS)	WEIGHT (LBS)	REFRIGERANT	SST (°F)	EAT (°F)	ELECTRICAL DATA				BASIS OF DESIGN		REMARKS
							QUANTITY FANS/COMPR	MCA	MOCP	V/PH/HZ	MANUFACTURER	MODEL	
MC-4	AHU-4	30	1936	R410a	40	107.88	3/2	63	80	460/3/60	Trane	RAUC20	

MAKE-UP AIR UNIT SCHEDULE

DESIGNATION	OPERATING WEIGHT	SUPPLY FAN DATA					OUTSIDE AIRFLOW	REFRIGERANT	COOLING CAPACITY					FUEL	HEATING CAPACITY			ELECTRICAL DATA			BASIS OF DESIGN		NOTES
		SUPPLY	ESP	DRIVE	SPEED	MOTOR			EAT	LAT	FLOW RATE	TOTAL	SENSIBLE		EAT	LAT	CAPACITY	VOLTS/PH/HZ	MCA	MOCP	MFGR.	MODEL NO.	
	(LBS)	(CFM)	(IN. WG)	TYPE	RPM	HP	(CFM)		Deg F (db)	Deg F (db)	GPM	MBH	MBH		Deg F (db)	Deg F (db)	MBH						
MAU-1	1393	5128	0.63	BELT	1963	3	5123	CHILLED WATER	93	71.0	44.0	200.0	124	HOT WATER	0	78.9	438	460/ 3 / 60	6.2	15	GREENHECK	MSX-P116-H22-MF	2,3,4,5,6,7

NOTES: PROVIDE THE FOLLOWING ACCESSORIES
1. 25:1 TURNDOWN BURNER
2. INLET MOTORIZED DAMPER,
3. MERV8 FILTER
4. VERTICAL DISCHARGE
5. REMOTE WALL MOUNT CONTROL PANEL
6. DISCHARGE AIR TEMPERATURE CONTROL
7. UNIT MOUNTED DISCONNECT

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PROJECT NO. **2021.01.015**

DRAWING TITLE:
MECHANICAL SCHEDULES

M3.02

4/8/2022 5:04:51 PM BIM 360://21107.00 IHS - Middle & High School/IHS Middle School MEP Restored.rvt

VENTILATION SCHEDULE (PART 1)

Project: IHMS
Job No:

Designer: MLM
Engineer: MLM

Unit #	room name	Az area	occupancy classification	Pz population	TBL 6-1 Rp peo oa	TBL 6-1 Ra area oa	Vbz oa cfm	TBL 6-2 Ez air dist eff	Voz oa req'd	design cfm	%oa req'd	system %oa	actual oa cfm	Exhaust CFM/sf	Exhaust Required CFM	Actual Exhaust
AHU-M1	ENTRY VESTIBULE 100	619	Corridors	0	0	0.06	37	0.8	47	2,000	2%	50%	1000	0	0	
AHU-M1	CENTRAL CORRIDOR 101	4,866	Corridors	0	0	0.06	292	0.8	365	1,320	28%	50%	495	0	0	
AHU-M1	COMMONS 102	1,958	Mall Common Areas	21	7.5	0.06	275	0.8	344	1,000	34%	50%	665	0	0	1300
AHU-M1	MEDIA COMMONS 103	1,362	Mall Common Areas	12	7.5	0.06	172	0.8	215	1,550	14%	50%	775	0	0	
AHU-M1	RECEPTION/ STORE 103A	165	Office Spaces	1	5	0.06	15	0.8	19	80	24%	50%	0	0	0	
AHU-M1	VIDEO 103C	107	Classrooms (9+)	4	10	0.12	53	0.8	67	160	42%	50%	80	0	0	
AHU-M1	VIDEO 103D	107	Classrooms (9+)	4	10	0.12	53	0.8	67	160	42%	50%	80	0	0	475
AHU-M1	VIDEO 103E	112	Classrooms (9+)	4	10	0.12	53	0.8	67	260	26%	50%	130	0	0	
AHU-M1	ENGINEERING 104	1,410	Classrooms (9+)	25	10	0.12	419	0.8	524	1,200	44%	50%	600	0	0	250
AHU-M1	HEALTH 106	873	Classrooms (9+)	25	10	0.12	355	0.8	444	1,080	41%	50%	540	0	0	200
AHU-M1	HEALTH 107	871	Classrooms (9+)	25	10	0.12	355	0.8	444	960	46%	50%	480	0	0	
AHU-M1	PROJECT LAB 125	1,339	Classrooms (9+)	25	10	0.12	411	0.8	514	1,040	49%	50%	240	0	0	
AHU-M1	THINK TANK 126	521	Conference/meeting	12	10	0.12	183	0.8	229	480	48%	50%	0	0	0	
AHU-M1	FAB SHOP 127	576	Wood/Metal Shops	12	10	0.18	224	0.8	280	560	50%	50%	150	0.5	287.914714	
AHU-M1	STORAGE 127A	213	Storage	0	0	0.12	26	0.8	32	80	40%	50%	0	0	0	
AHU-M1	ART 130	1,593	Art Classroom	25	10	0.18	537	0.8	672	2,100	32%	50%	1050	0.7	1115.357062	
AHU-M1	ART STORAGE 130A	362	Storage	0	0	0.12	43	0.8	55	120	46%	50%	0	0	0	
AHU-M1	KILN ROOM 130B	135	Storage	0	0	0.12	16	0.8	21	280	8%	50%	0	0	0	
AHU-M1	ART 131	1,227	Art Classroom	25	10	0.18	471	0.8	589	1,200	49%	50%	500	0.7	858.565509	
AHU-M1	INNOVATION COACH 132	488	Conference/meeting	12	5	0.06	89	0.8	112	320	35%	50%	160	0	0	
AHU-M1	FACILITY 133	450	Multipurpose Assembly	6	5	0.06	57	0.8	72	280	26%	50%	140	0	0	
AHU-M1	TEACHER WORK ROOM 133A	192	Storage	0	0	0.12	23	0.8	29	80	36%	50%	40	0	0	
AHU-M1	ELECTRICAL 134	133	Janitor Closet	0	0	0	0	0.8	0	0	0%	50%	0	0	0	
AHU-M1	I.T. 135	110	Janitor Closet	0	0	0	0	0.8	0	0	0%	50%	0	1	109.625	
AHU-M1	STORAGE 136	189	Storage	0	0	0.12	23	0.8	29	80	36%	50%	40	0	0	
AHU-M1	R.R. 139	65	Bathrooms/Toilet (Private)	0	0	0	0	0.8	0	0	0%	50%	0	0	0	
AHU-M1	JAN. 140	61	Janitor Closet	0	0	0	0	0.8	0	40	0%	50%	20	1	61.474748	
AHU-M1	R.R. 141	54	Bathrooms/Toilet (Private)	0	0	0	0	0.8	0	0	0%	50%	0	0	0	
AHU-M1	MEN'S R.R. 142	218	Bathrooms/Toilet (Private)	0	0	0	0	0.8	0	80	0%	50%	40	0	0	
AHU-M1	WOMEN'S R.R. 143	215	Bathrooms/Toilet (Private)	0	0	0	0	0.8	0	80	0%	50%	40	0	0	
AHU-M1	R.R. 144	59	Bathrooms/Toilet (Private)	0	0	0	0	0.8	0	0	0%	50%	0	0	0	
AHU-M1	6TH GRADE LOCKERS-1 145-1	425	Corridors	0	0	0.06	26	0.8	32	80	40%	50%	20	0	0	
AHU-M1	6TH GRADE COMMONS-1 146-1	1,824	Mall Common Areas	40	7.5	0.06	409	0.8	512	1,725	30%	50%	0	0	0	50
AHU-M1	6TH GRADE CORRIDOR - SOUTH 146A	1,261	Corridors	0	0	0.06	76	0.8	95	360	26%	50%	0	0	0	
AHU-M1	6TH GRADE CORRIDOR - NORTH 146B	1,590	Corridors	0	0	0.06	95	0.8	120	440	27%	50%	0	0	0	
AHU-M1	MATH 147	879	Classrooms (9+)	25	10	0.12	355	0.8	445	920	49%	50%	440	0	0	
AHU-M1	SCIENCE 148	983	Science Laboratories	25	10	0.18	427	0.8	534	1,160	46%	50%	580	1	982.746582	
AHU-M1	SCIENCE 149	980	Science Laboratories	25	10	0.18	426	0.8	534	1,160	46%	50%	580	1	980.180827	
AHU-M1	MATH 150	940	Classrooms (9+)	25	10	0.12	363	0.8	454	960	47%	50%	480	0	0	
AHU-M1	SOCIAL STUDIES 151	940	Classrooms (9+)	25	10	0.12	363	0.8	454	960	47%	50%	420	0	0	
AHU-M1	SOCIAL STUDIES 152	961	Classrooms (9+)	25	10	0.12	365	0.8	457	960	48%	50%	440	0	0	
AHU-M1	ENGLISH 153	966	Classrooms (9+)	25	10	0.12	366	0.8	458	920	50%	50%	440	0	0	
AHU-M1	ENGLISH 154	893	Classrooms (9+)	25	10	0.12	357	0.8	447	920	49%	50%	440	0	0	
AHU-M1	INTERVENTION 155	580	Office Spaces	17	5	0.06	120	0.8	150	680	22%	50%	340	0	0	
AHU-M1	EXIT CORRIDOR 156	275	Corridors	0	0	0.06	17	0.8	21	80	26%	50%	40	0	0	
AHU-M1	LEARNING LAB 157	564	Office Spaces	25	5	0.06	182	0.8	228	920	25%	50%	0	0	0	
AHU-M1	CENTRAL CORRIDOR 200	5,280	Corridors	0	0	0.06	317	0.8	396	2,180	18%	50%	1090	0	0	
AHU-M1	TREE HOUSE-1 200A-1	896	Classrooms (9+)	6	10	0.12	168	0.8	210	840	25%	50%	420	0	0	
AHU-M1	GROUP ROOM 202	269	Classrooms (9+)	8	10	0.12	112	0.8	141	320	44%	50%	160	0	0	
AHU-M1	SPANISH 203	858	Classrooms (9+)	25	10	0.12	353	0.8	442	920	48%	50%	440	0	0	
AHU-M1	SPANISH 204	857	Conference Rooms (Office)	25	5	0.06	176	0.8	221	1,040	21%	50%	520	0	0	
AHU-M1	GROUP ROOM 205	287	Classrooms (9+)	8	10	0.12	114	0.8	143	320	45%	50%	160	0	0	
AHU-M1	SPANISH 206	851	Classrooms (9+)	25	10	0.12	352	0.8	441	1,040	42%	50%	520	0	0	
AHU-M1	BREAK OUT 207	180	Classrooms (9+)	3	10	0.12	52	0.8	65	180	36%	50%	90	0	0	200
AHU-M1	FACULTY RESOURCE 208	548	Office Spaces	8	5	0.06	73	0.8	92	280	33%	50%	140	0	0	
AHU-M1	TEACHER WORK ROOM 208A	162	Storage rooms	0	0	0.06	10	0.8	13	120	11%	50%	60	0	0	
AHU-M1	LATIN 209	746	Classrooms (9+)	25	10	0.12	339	0.8	425	1,080	39%	50%	540	0	0	
AHU-M1	GROUP ROOM 210	302	Conference Rooms (Office)	8	5	0.06	58	0.8	73	240	30%	50%	120	0	0	
AHU-M1	LATIN 211	675	Classrooms (9+)	25	10	0.12	331	0.8	414	840	49%	50%	420	0	0	
AHU-M1	STORAGE 212	125	Storage	0	0	0.12	15	0.8	19	40	48%	50%	0	0	0	
AHU-M1	R.R. 215	54	Bathrooms/Toilet (Private)	0	0	0	0	0.8	0	0	0%	50%	0	0	0	
AHU-M1	MEN'S R.R. 216	217	Bathrooms/Toilet (Private)	0	0	0	0	0.8	0	80	0%	50%	40	0	0	
AHU-M1	WOMEN'S R.R. 217	218	Bathrooms/Toilet (Private)	0	0	0	0	0.8	0	80	0%	50%	40	0	0	
AHU-M1	R.R. 218	61	Bathrooms/Toilet (Private)	0	0	0	0	0.8	0	0	0%	50%	0	0	0	
AHU-M1	R.R. 219	65	Bathrooms/Toilet (Private)	0	0	0	0	0.8	0	0	0%	50%	0	0	0	150
AHU-M1	JAN. 220	63	Janitor Closet	0	0	0	0	0.8	0	0	0%	50%	0	1	62.661812	
AHU-M1	8TH GRADE LOCKERS 221	424	Corridors	0	0	0.06	25	0.8	32	120	27%	50%	0	0	0	250
AHU-M1	8TH GRADE COMMONS-1 222-1	1,812	Mall Common Areas	19	7.5	0.06	251	0.8	315	2,580	12%	50%	642	0	0	
AHU-M1	8TH GRADE CORRIDOR - SOUTH 222A	1,304	Corridors	0	0	0.06	78	0.8	98	1,120	9%	50%	0	0	0	
AHU-M1	8TH GRADE CORRIDOR - NORTH 222B	1,597	Corridors	0	0	0.06	96	0.8	120	1,040	12%	50%	0	0	0	
AHU-M1	MATH 223	893	Classrooms (9+)	25	10	0.12	357	0.8	447	920	49%	50%	460	0	0	
AHU-M1	SCIENCE 224	983	Science Laboratories	25	10	0.18	427	0.8	534	2,120	25%	50%	1060	1	982.753961	
AHU-M1	SCIENCE 225	981	Science Laboratories	25	10	0.18	427	0.8	534	2,160	25%	50%	1080	1	981.138188	
AHU-M1	MATH 226	940	Classrooms (9+)	25	10	0.12	363	0.8	454	1,280	35%	50%	640	0	0	
AHU-M1	SOCIAL STUDIES 227	951	Classrooms (9+)	25	10	0.12	364	0.8	456	1,240	37%	50%	620	0	0	
AHU-M1	SOCIAL STUDIES 228	961	Classrooms (9+)	25	10	0.12	365	0.8	457	920	50%	50%	460	0	0	
AHU-M1	ENGLISH 229	967	Classrooms (9+)	25	10	0.12	366	0.8	458	920	50%	50%	460	0	0	
AHU-M1	ENGLISH 231	893	Classrooms (9+)	25	10	0.12	357	0.8	447	920	49%	50%	440	0	0	
AHU-M1	INTERVENTION 232	580	Office Spaces	16	5	0.06	115	0.8	144	800	18%	50%	400	0	0	
AHU-M1	EXIT CORRIDOR 233	280	Corridors	0	0	0.06	17	0.8	22	80	28%	50%	40	0	0	
AHU-M1	BREAK OUT 234	180	Classrooms (ages 9 plus)	1	5	0.06	16	0.8	20	180	11%	50%	0	0	0	
							0		0	54,535						
AHU-M2	THEATER ENTRY VEST. 0	514	Corridors	0	0	0.06	31	0.8	39	2,000	2%	50%	0	0	0	
AHU-M2	THEATER LOBBY 1	3,670	Corridors	0	0	0.06	220	0.8	276	2,400	12%	50%	1200	0	0	
AHU-M2	R.R. 3	57	Bathrooms/Toilet (Private)	0	0	0	0	0.8	0	0	0%	50%	0	0	0	
AHU-M2	R.R. 4	70	Bathrooms/Toilet (Private)	0	0	0	0	0.8	0	0	0%	50%	0	0	0	
AHU-M2	M.S. CHORAL 5	1,911	Music/Theatre/Dance	40	10	0.06	515	0.8	644	1,720	37%	50%	0	0	0	
AHU-M2	PRACTICE 6	234	Libraries	2	5	0.12	38	0.8	48	240	20%	50%	120	0	0	
AHU-M2	STORAGE/LIBRARY 7	228	Storage	0	0	0.12	27	0.8	35	240	15%	50%	120	0	0	
AHU-M2	OFFICE 8	274	Office Spaces	1	5	0.06	21	0.8	27	160	17%	50%	80	0	0	
AHU-M2	ENSEMBLE 9	414	Music/Theatre/Dance	8	10	0.06	105	0.8	132	400	33%	50%	200	0	0	
AHU-M2	MUSIC CORRIDOR 10	3,078	Corridors	0	0	0.06	185	0.8	231	800	29%	50%	460	0	0	
AHU-M2	STORAGE-2 011-2	165	Storage	0	0	0.12	20	0.8	25	80	31%	50%	40	0	0	
AHU-M2	ORCHESTRA 13	2,288	Music/Theatre/Dance	84	10	0.06	977	0.8	1222	2,480	49%	50%	145	0	0	
AHU-M2	ENSEMBLE 15	392	Music/Theatre/Dance	8	10	0.06	104	0.8	130	400	33%	50%	200	0	0	200
AHU-M2	LIBRARY 16	256	Libraries	0	5	0.12	31	0.8	39	80	49%	50%	40	0	0	
AHU-M2	STORAGE 17	136	Storage	0	0	0.12	16	0.8	21	80	26%	50%	20	0	0	
AHU-M2	ENSEMBLE 18	431	Music/Theatre/Dance	8	10	0.06	106	0.8	133	400	33%	50%	200	0	0	
AHU-M2	ENSEMBLE 19	331	Music/Theatre/Dance	8	10	0.06	100	0.8	125	360	35%	50%	180	0	0	
AHU-M2	BRAVES LINE 20	544	Office Spaces	3	5	0.06	48	0.8	60	560	11%	50%	280	0	0	
AHU-M2	MEN'S R.R. 31	215	Bathrooms/Toilet (Private)	0	0	0	0	0.8	0	0	0%	50%	0	0	0	
AHU-M2	OFFICE 34	203	Office Spaces	1	5	0.06	17	0.8	22	120	18%	50%	60	0	0	
AHU-M2	CONCESSIONS 35	193	Cafeteria, Fast Food	3	7.5	0.18	57	0.8	72	400	18%	50%	200	0	0	
AHU-M2	ATHLETICS LOBBY 50	3,046	Lobbies/prefunction	10	5	0.06	233	0.8	291	1,600	18%	50%	0	0	0	
AHU-M2	CONCESSIONS 51	319	Cafeteria/fast food dining	1	5	0.06	24	0.8	31	400	8%	50%	0	0	0	
AHU-M2	R.R. 52	51	Bathrooms/Toilet (Private)	0	5	0.06	3	0.8	4	0	0%	50%	0	0	0	
AHU-M2	R.R. 53	46	Bathrooms/Toilet (Private)	0	5	0.06	3	0.8	4	0	0%	50%	0	0	0	
AHU-M2	OFFICE 56	148	Office Space	1	5	0.06	14	0.8	18	120	15%	50%	0	0	0	
AHU-M2	CONFERENCE 056	308	Conference/meeting	5	5	0.06	43	0.8	55	200	28%	50%	100	0	0	
AHU-M2	A.D. RECEPTION-2 057-2	217	Reception Areas	5	5	0.06	38	0.8	48	200	24%	50%	0	0	0	
AHU-M2	A.D. OFFICE 58	125	Office Spaces	1	5	0.06	12	0.8	16	200	8%	50%	100	0	0	
AHU-M2	CONFERENCE ROOM 59	258	Conference Rooms (Office)	16	5	0.06	95	0.8	120	400	30%	50%	200	0	0	
AHU-M2	R.R. 180	53	Bathrooms/Toilet (Private)	0	0	0	0	0.8	0	0	0%	50%	0	0	0	
AHU-M2	MENS R.R. 181	202	Bathrooms/Toilet (Private)	0	0	0	0	0.8	0	80	0%	50%	0	0	0	
AHU-M2	WOMEN'S R.R. 182	207	Bathrooms/Toilet (Private)	0	0	0	0	0.8	0	80	0%	50%	0	0	0	
AHU-M2	R.R. 183	53	Bathrooms/Toilet (Private)	0	0	0	0	0.8	0	0	0%	50%	0	0	0	
AHU-M2	NORTH CORRIDOR 185	2,278	Corridors	0	0	0.06	137	0.8	171	400	43%	50%	80	0	0	
AHU-M2	SPEECH 186	492	Classrooms (9+)	13	10	0.12	189	0.8	237	480	49%	50%	120	0	0	
AHU-M2	TESOL 187	535	Classrooms (9+)	9	10	0.12	154	0.8	193	400	48%	50%	180	0	0	
AHU-M2	TESTING 187A	96	Classrooms (9+)	3	10	0.12	42	0.8	52	120	43%	50%	40	0	0	
AHU-M2	RESOURCE 188	881	Office Spaces	13	5	0.06	118	0.8	148	640	23%	50%	320	0	0	
AHU-M2	R.R. 188A	88	Bathrooms/Toilet (Private)	0	0	0	0	0.8	0	40	0%	50%	20	0	0	
			(Rp * Pz) + (Ra * Az)				Vbz / Ez									

Vbz = Breathing zone outdoor air flow
Rp = Outdoor air flow rate per person (table 6-1)
Pz = Zone population - maximum occupancy (table 6-1)
Ra = Outdoor air flow rate per unit area (table 6-1)
Az = Zone floor area

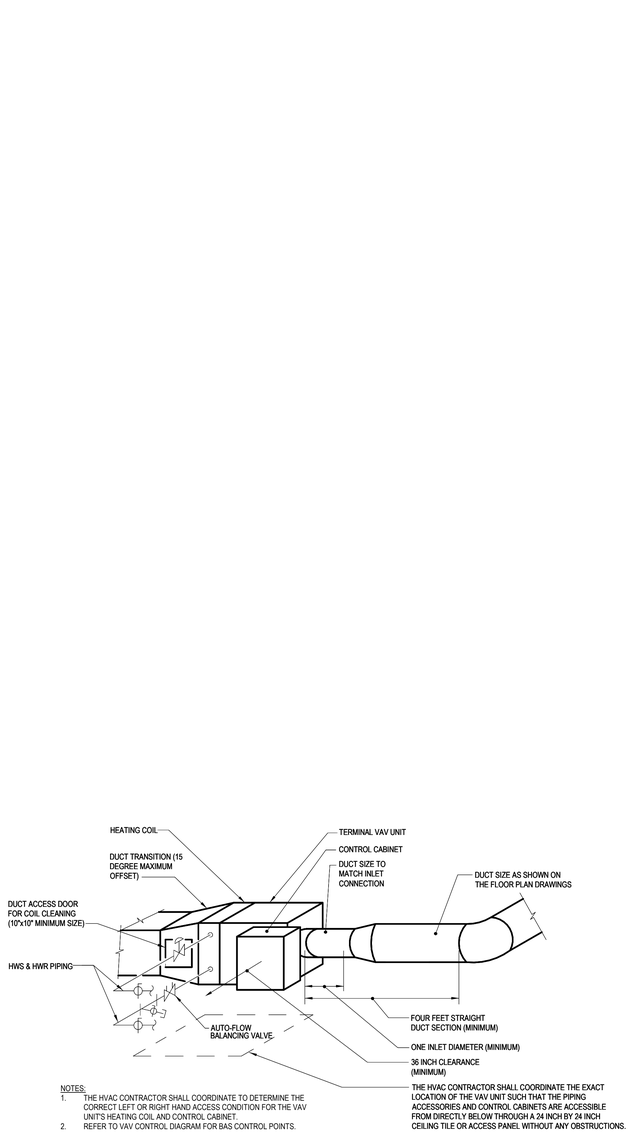
Voz = Zone outdoor air flow
Vbz = Breathing zone outdoor air flow (calculated)
Ez = Zone air distribution effectiveness (table 6-2)
Ez = 0.80 (based on ceiling supply, ceiling return)

VENTILATION SCHEDULE (PART 2)

Project: Live Oaks
Job No: 2020.01.062

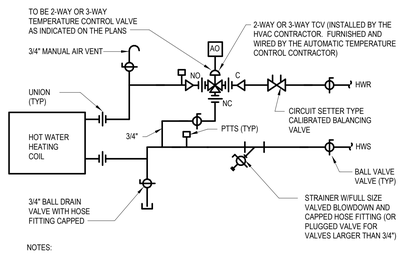
Designer: SHAW
Engineer: SHAW

Unit #	room name	Az area	occupancy classification	Pz population	TBL 6-1 Rp peo oa	TBL 6-1 Ra area oa	Vbz oa cfm	TBL 6-2 Ez air dist eff	Voz oa req'd	design cfm	%oa req'd	system %oa	actual oa cfm	Exhaust CFM/sf	Exhaust Required CFM	Actual Exhaust
AHU-M2	LIFE SKILLS 189	295	Classrooms (9+)	11	10	0.12	145	0.8	182	400	46%	50%	100	0	0	
AHU-M2	OT / PT 190	481	Office Spaces	2	5	0.06	39	0.8	49	240	20%	50%	120	0	0	
AHU-M2	REST 190A	79	Office Spaces	1	7.5	0.06	12	0.8	16	0	0%	50%	0	0	0	
AHU-M2	SENSORY 190B	130	Office Spaces	1	5	0.06	13	0.8	16	160	10%	50%	80	0	0	21900
AHU-M2	FRENCH 201	802	Classrooms (9+)	25	10	0.12	346	0.8	433	1,000	43%	50%	500	0	0	
AHU-M2	DISCOVERY 235	880	Classrooms (9+)	17	10	0.12	276	0.8	345	880	39%	50%	440	0	0	
AHU-M2	R.R. 236	63	Bathrooms/Toilet (Private)	0	0	0	0	0.8	0	0	0%	50%	0	0	0	
AHU-M2	MEN'S R.R. 237	234	Bathrooms/Toilet (Private)	0	0	0	0	0.8	0	120	0%	50%	0	0	0	
AHU-M2	WOMEN'S R.R. 238	261	Bathrooms/Toilet (Private)	0	0	0	0	0.8	0	120	0%	50%	0	0	0	
AHU-M2	R.R. 239	59	Bathrooms/Toilet (Private)	0	0	0	0	0.8	0	0	0%	50%	0	0	0	
AHU-M2	R.R. 240	97	Bathrooms/Toilet (Private)	0	0	0	0	0.8	0	0	0%	50%	0	0	0	
AHU-M2	JAN. 241	96	Janitor Closet	0	0	0	0	0.8	0	0	0%	50%	0	1	95.953125	250
AHU-M2	7TH GRADE CORRIDOR-1 242-1	1,849	Corridors	0	0	0.06	111	0.8	139	500	28%	50%	0	0	0	
AHU-M2	7TH GRADE CORRIDOR-2 242-2	1,508	Corridors	0	0	0.06	91	0.8	114	500	23%	50%	0	0	0	
AHU-M2	7TH GRADE LOCKERS 243	388	Corridors	0	0	0.06	23	0.8	30	120	25%	50%	60	0	0	
AHU-M2	7TH GRADE COMMONS-1 244-1	1,798	Mall Common Areas	40	7.5	0.06	408	0.8	510	1,360	38%	50%	0	0	0	9325
AHU-M2	GROUP ROOM 244A	193	Conference Rooms (Office)	3	5	0.06	27	0.8	34	120	28%	50%	0	0	0	
AHU-M2	GROUP ROOM 244B	140	Conference Rooms (Office)	3	5	0.06	23	0.8	30	120	25%	50%	0	0	0	
AHU-M2	SOCIAL STUDIES 245	889	Classrooms (9+)	25	10	0.12	357	0.8	446	1,040	43%	50%	520	0	0	
AHU-M2	SOCIAL STUDIES 246	898	Classrooms (9+)	25	10	0.12	358	0.8	448	1,000	45%	50%	500	0	0	
AHU-M2	MATH 248	933	Classrooms (9+)	25	10	0.12	362	0.8	453	1,120	40%	50%	560	0	0	
AHU-M2	STORAGE 248A	114	Storage	0	0	0.12	14	0.8	18	40	45%	50%	20	0	0	
AHU-M2	SCIENCE 249	874	Science Laboratories	25	10	0.18	407	0.8	510	1,040	49%	50%	480	1	873.826241	
AHU-M2	SCIENCE 250	873	Science Laboratories	25	10	0.18	407	0.8	509	1,040	49%	50%	480	1	872.99638	
AHU-M2	MATH 251	906	Classrooms (9+)	25	10	0.12	359	0.8	449	1,320	34%	50%	660	0	0	
AHU-M2	INTERVENTION 252	635	Classrooms (9+)	25	10	0.12	326	0.8	408	880	46%	50%	440	0	0	
AHU-M2	ENGLISH 253	896	Classrooms (9+)	25	10	0.12	358	0.8	447	1,320	34%	50%	660	0	0	
AHU-M2	ENGLISH 254	896	Classrooms (9+)	25	10	0.12	358	0.8	447	1,200	37%	50%	600	0	0	
							0		0	33,920						
AHU-M3	SOUTH CORRIDOR 105	1,222	Corridors	0	0	0.06	73	0.8	92	400	23%	50%	0	0	0	
AHU-M3	GYM CORRIDOR 108	448	Corridors	0	0	0.06	27	0.8	34	320	11%	50%	160	0	0	
AHU-M3	DINING COMMONS 109	3,971	Cafeteria, Fast Food	236	7.5	0.18	2485	0.8	3107	7,560	41%	50%	1680	0	0	
AHU-M3	DINING CORRIDOR 109A	1,225	Corridors	0	0	0.06	74	0.8	92	400	23%	50%	0	0	0	
AHU-M3	SERVERY 111	962	Kitchens (Cooking)	0	0	0	0	0.8	0	480	0%	50%	240	0.7	673.690082	
AHU-M3	KITCHEN 112	1,390	Kitchens (Cooking)	0	0	0	0	0.8	0	800	0%	50%	400	0.7	973.291114	
AHU-M3	STORAGE 112A	61	Storage	0	0	0.12	7	0.8	10	40	25%	50%	0	0	0	
AHU-M3	DRY STORAGE 112B	159	Storage	0	0	0.12	19	0.8	24	80	30%	50%	23	0	0	
AHU-M3	WARE WASHING 113	201	Kitchens (Cooking)	0	0	0	0	0.8	0	160	0%	50%	80	0.7	140.901672	
AHU-M3	KITCHEN OFFICE 114	100	Storage	0	0	0.12	12	0.8	16	120	13%	50%	0	0	0	
AHU-M3	R.R. 115	42	Bathrooms/Toilet (Private)	0	0	0	0	0.8	0	0	0%	50%	0	0	0	
AHU-M3	R.R. 116	60	Bathrooms/Toilet (Private)	0	0	0	0	0.8	0	0	0%	50%	0	0	0	
AHU-M3	FACILITY BREAK ROOM 117	936	Office Space	3	5	0.06	71	0.8	89	600	15%	50%	300	0	0	
AHU-M3	FACILITY WASH ROOM 117A	79	Janitor Closet	0	0	0.12	9	0.8	12	0	0%	50%	0	0	0	
AHU-M3	OFFICE 119	120	Office Spaces	1	5	0.06	12	0.8	16	120	13%	50%	0	0	0	
AHU-M3	OFFICE 120	204	Office Spaces	1	5	0.06	17	0.8	22	160	14%	50%	80	0	0	
AHU-M3	FACILITY WORKSHOP 124	279	Storage	0	0	0.12	33	0.8	42	200	21%	50%	100	0	0	
AHU-M3	PART STORAGE 124A	231	Storage rooms	1	5	0.06	19	0.8	24	0	0%	50%	0	0	0	
AHU-M3	EXIST. GYM EX100	11,474	Gym, Stadium, Arena (Play Area)	0	0	0.3	3442	0.8	4303	16,680	26%	50%	4140	0	0	
AHU-M3	VESTIBULE EX100A	81	Corridors	0	0	0.06	5	0.8	7	50	14%	50%	25	0	0	
AHU-M3	GYM STORAGE EX101	553	Storage	0	0	0.12	66	0.8	83	185	45%	50%	93	0	0	
AHU-M3	C



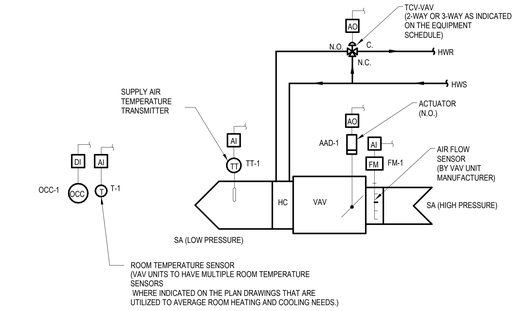
NOTES:
1. THE HVAC CONTRACTOR SHALL COORDINATE TO DETERMINE THE CORRECT LEFT OR RIGHT HAND ACCESS CONDITION FOR THE VAV UNIT'S HEATING COIL AND CONTROL CABINET.
2. REFER TO VAV CONTROL DIAGRAM FOR BAS CONTROL POINTS.

3 M5.01 VAV UNIT INSTALLATION DETAIL
SCALE: 12" = 1'-0"

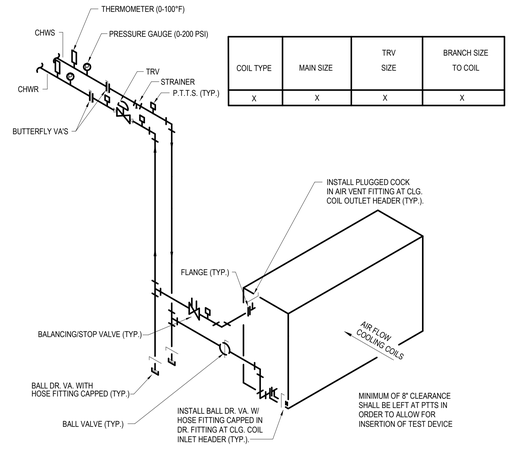


NOTES:
1. PROVIDE 8" OF CLEARANCE AT PTTS FOR INSERTION OF TEST DEVICES.
2. SHUT-OFF VALVES, STRAINERS, BALANCING VALVES AND UNIONS OR FLANGES SHALL BE FULL PIPE SIZE. PIPING TO COIL CONNECTIONS SHALL NOT BE SMALLER THAN COIL CONNECTION SIZE.
3. SEE FLOOR PLAN DRAWINGS FOR SIZES OF BRANCH PIPING TO HEATING COILS.
4. THE COIL ISOLATION SHUT-OFF VALVES ARE TO BE SEPERATE VALVES THAT ARE INDEPENDENTLY INSTALLED AND NOT INCLUDED IN COMBINATION VALVE PACKAGES.

2 M5.01 TYPICAL VAV PIPING DETAIL
SCALE: 12" = 1'-0"



4 M5.01 VAV WITH HOT WATER HEAT
SCALE: 12" = 1'-0"



COIL TYPE	MAIN SIZE	TRV SIZE	BRANCH SIZE TO COIL
X	X	X	X

1 M5.01 COOLING COIL PIPING DIAGRAM
SCALE: 12" = 1'-0"

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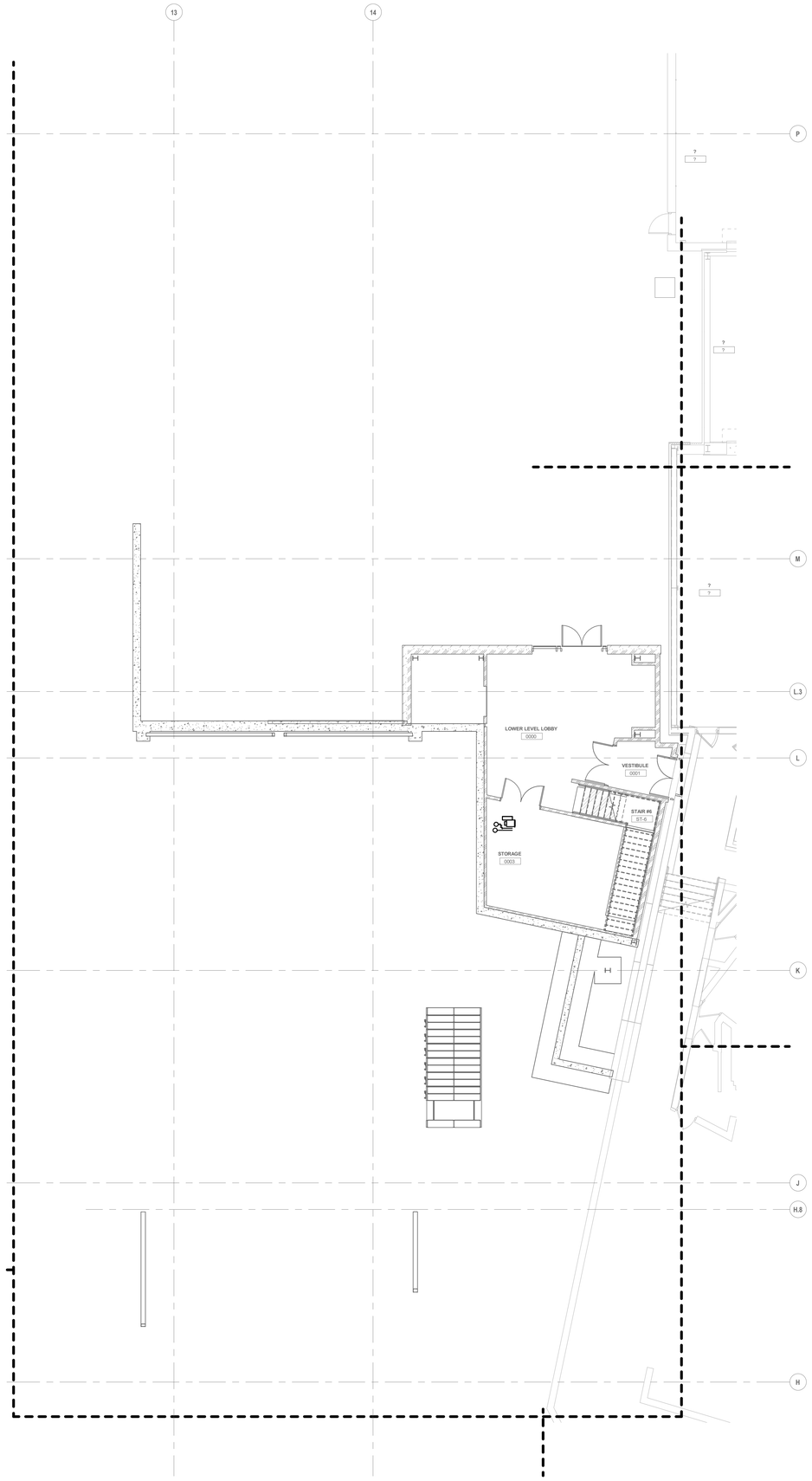
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MECHANICAL DETAILS

M5.01

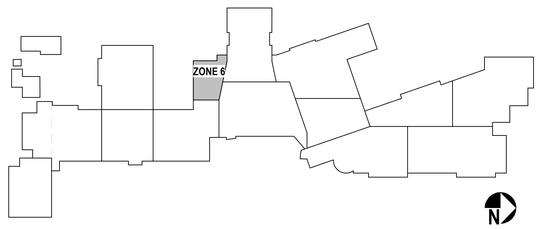


1 MP2.10 ZONE 6 - LOWER LEVEL
SCALE: 1/8" = 1'-0"

GENERAL NOTES:

1. NO GENERAL NOTES ON THIS PLAN

MS & HS - NEW KEY PLAN N.T.S



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DRAWING TITLE:
ZONE 6 -
LOWER LEVEL
MECH. PIPING
CONSTR. PLAN

MP2.10

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MATCHLINE

6" CHWR
6" CHWS
8" CHWS
8" CHWR
1" HWS
1" HWR
2" HWS
2" HWR
3" HWS
3" HWR

ELECTRICAL 123
CORRIDOR EX120
FACILITY WORKSHOP 124
PART STORAGE 124A
R.R. 116
MECHANICAL 122
KITCHEN OFFICE 114
STORAGE 112A
KITCHEN 112
FACILITY BREAK ROOM 117
SERVERY 111
DINING CORRIDOR 109A
OFFICE 120
CUSTODIAL STORAGE EX111
OFFICE 119
LT. 118
ENTRY EX111A
WALK-IN FREEZER 112C
WALK-IN FRIDGE 112B
WARE WASHING 113
DINING COMMONS 109
PATIO 894
ART 130
KILN ROOM 130B
ART 130
ART STORAGE 130A
STORAGE 127A
FAB SHOP 127
THINK TANK 126
PROJECT LAB 125
CENTRAL CORRIDOR 101
ENGINEERING 104
VIDEO 103C
VIDEO 103D
VIDEO 103E
HEALTH 107
HEALTH 106
SOUTH CORRIDOR 105
WOMEN'S LOCKER EX104
MEN'S LOCKER EX107
WOMEN'S R.R. EX103
MEN'S R.R. EX106
CORRIDOR EX102
GYM STORAGE EX101
ATHLETIC EX105
ATHLETIC EX108
VESTIBULE EX100A
EXIST. GYM EX100
GYM CORRIDOR 108

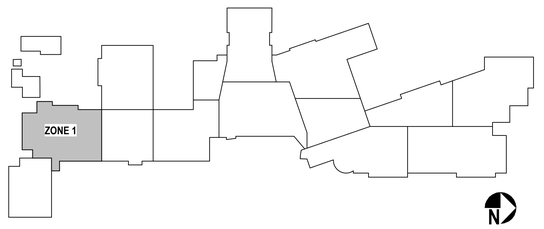
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VAV-1-1-19
VAV-1-1-20
VAV-1-1-25
VAV-1-1-26
VAV-1-1-27
VAV-1-1-28

1 MP2.11 ZONE 1 - MAIN LEVEL NEW FLOOR PLAN
SCALE: 1/8" = 1'-0"

GENERAL NOTES:

1. NO GENERAL NOTES ON THIS PLAN

MS & HS - NEW KEY PLAN N.T.S



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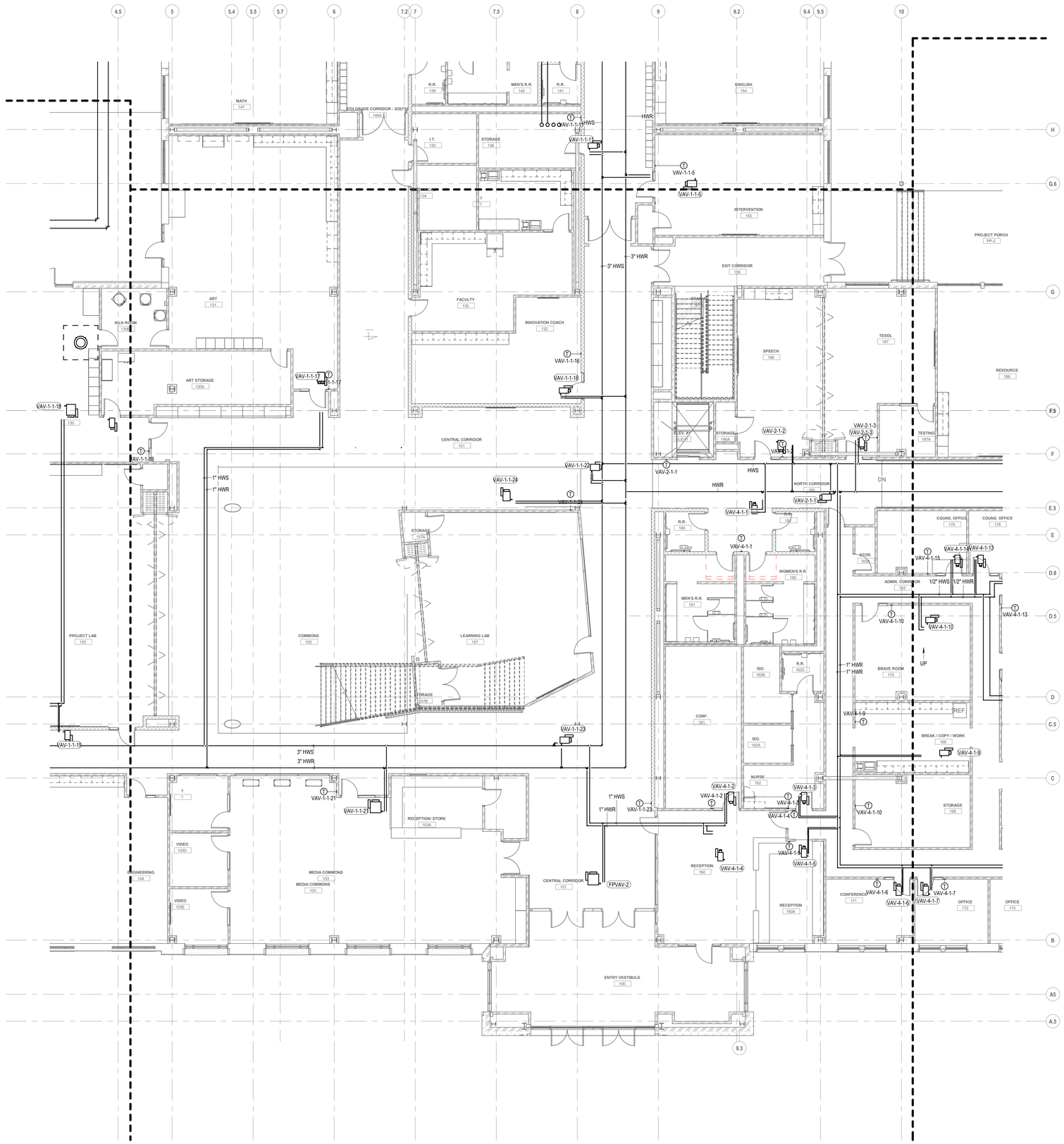
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ZONE 1 -
MAIN LEVEL
MECHANICAL PIPING
CONSTR. PLAN

MP2.11

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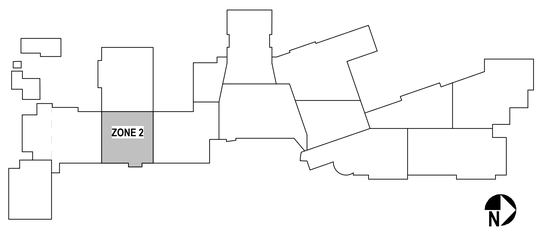
1 MP2.12 ZONE 2 - MAIN LEVEL NEW FLOOR PLAN

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

GENERAL NOTES:

1. NO GENERAL NOTES ON THIS PLAN

MS & HS - NEW KEY PLAN N.T.S



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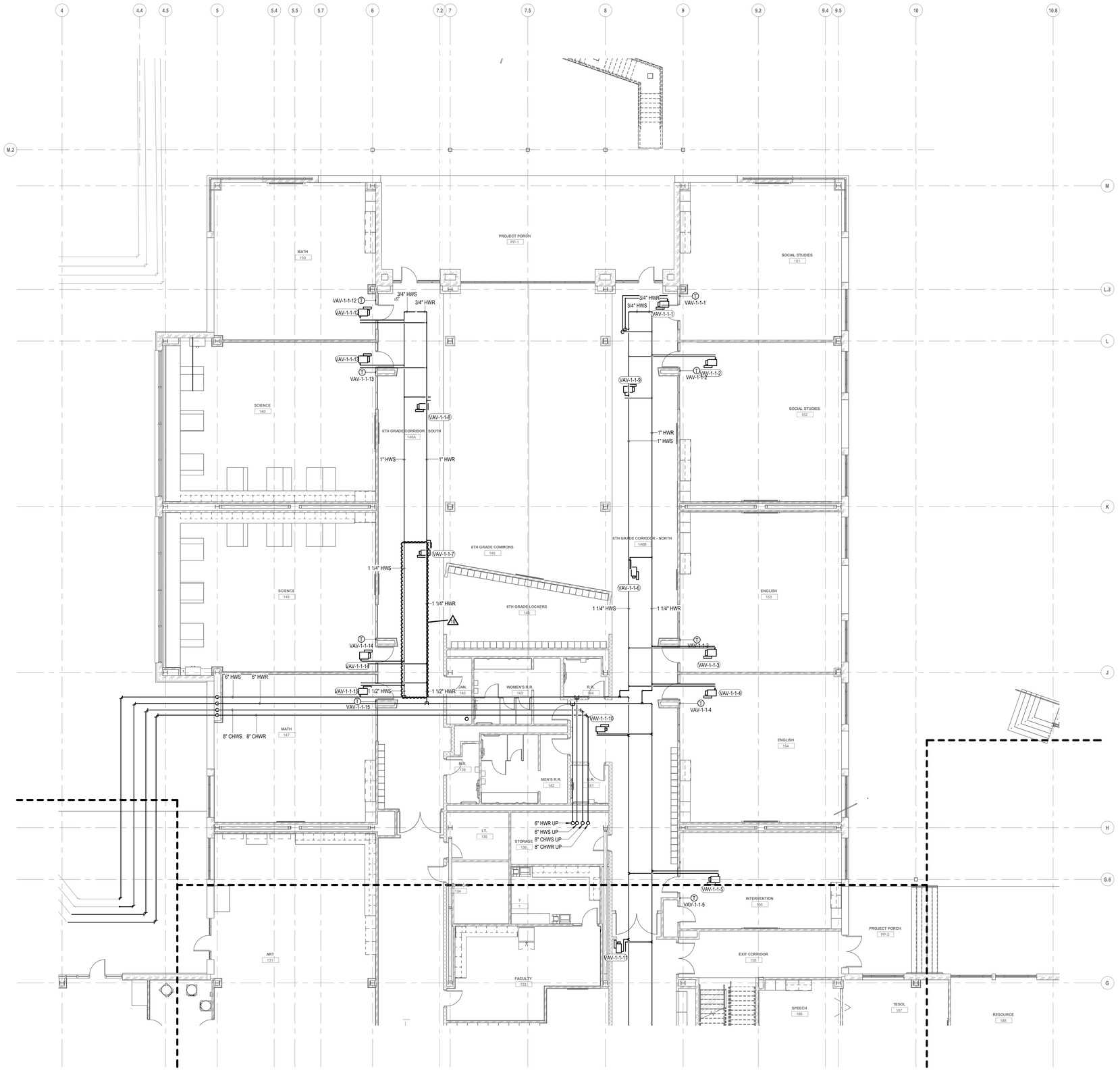
DRAWN BY: Author CHECKED BY Checker

PROJECT NO. 2021.01.015

DRAWING TITLE:
ZONE 2 -
MAIN LEVEL
MECHANICAL PIPING
CONSTR. PLAN

MP2.12

4/8/2022 5:05:16 PM BIM 360://21107.00 IHS - Middle & High School/IHS Middle School MEP Restored.rvt

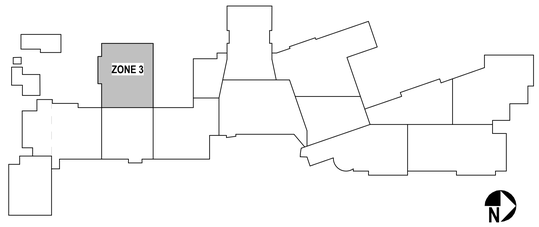


1 MP2.13 ZONE 3 - MAIN LEVEL NEW FLOOR PLAN
SCALE: 1/8" = 1'-0"

GENERAL NOTES:

1. NO GENERAL NOTES ON THIS PLAN

MS & HS - NEW KEY PLAN N.T.S



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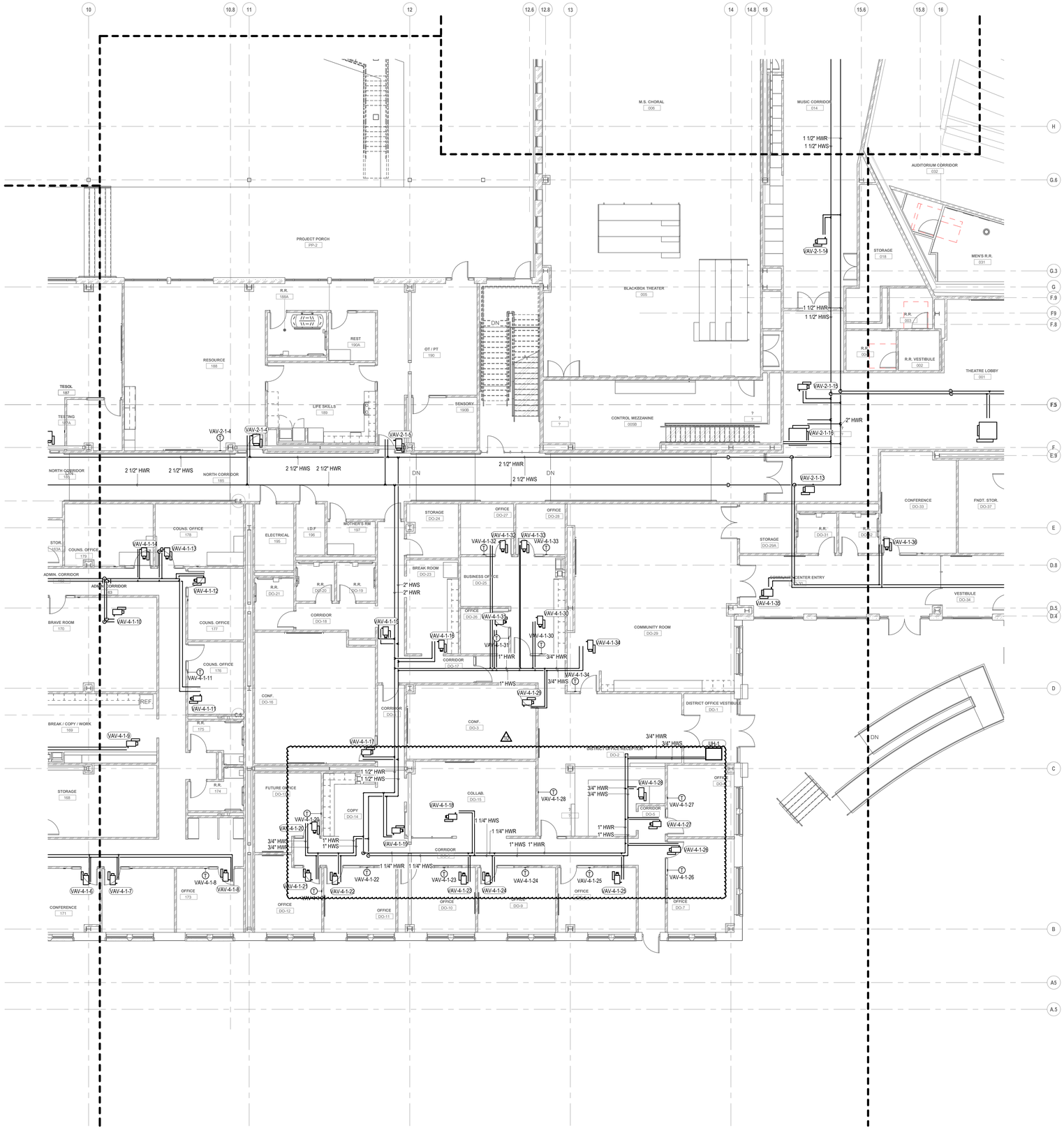
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DRAWING TITLE:
ZONE 3 - MAIN LVL. MECHANICAL PIPING CONSTRUCTION PLAN

MP2.13

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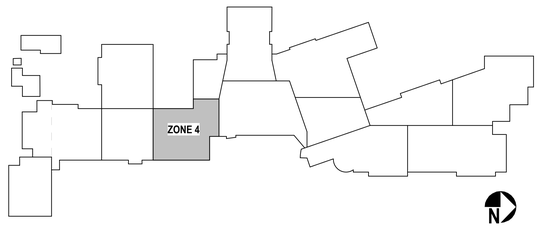


1 MP2.14 ZONE 4 - MAIN LEVEL NEW FLOOR PLAN
SCALE: 1/8" = 1'-0"

GENERAL NOTES:

1. NO GENERAL NOTES ON THIS PLAN

MS & HS - NEW KEY PLAN N.T.S



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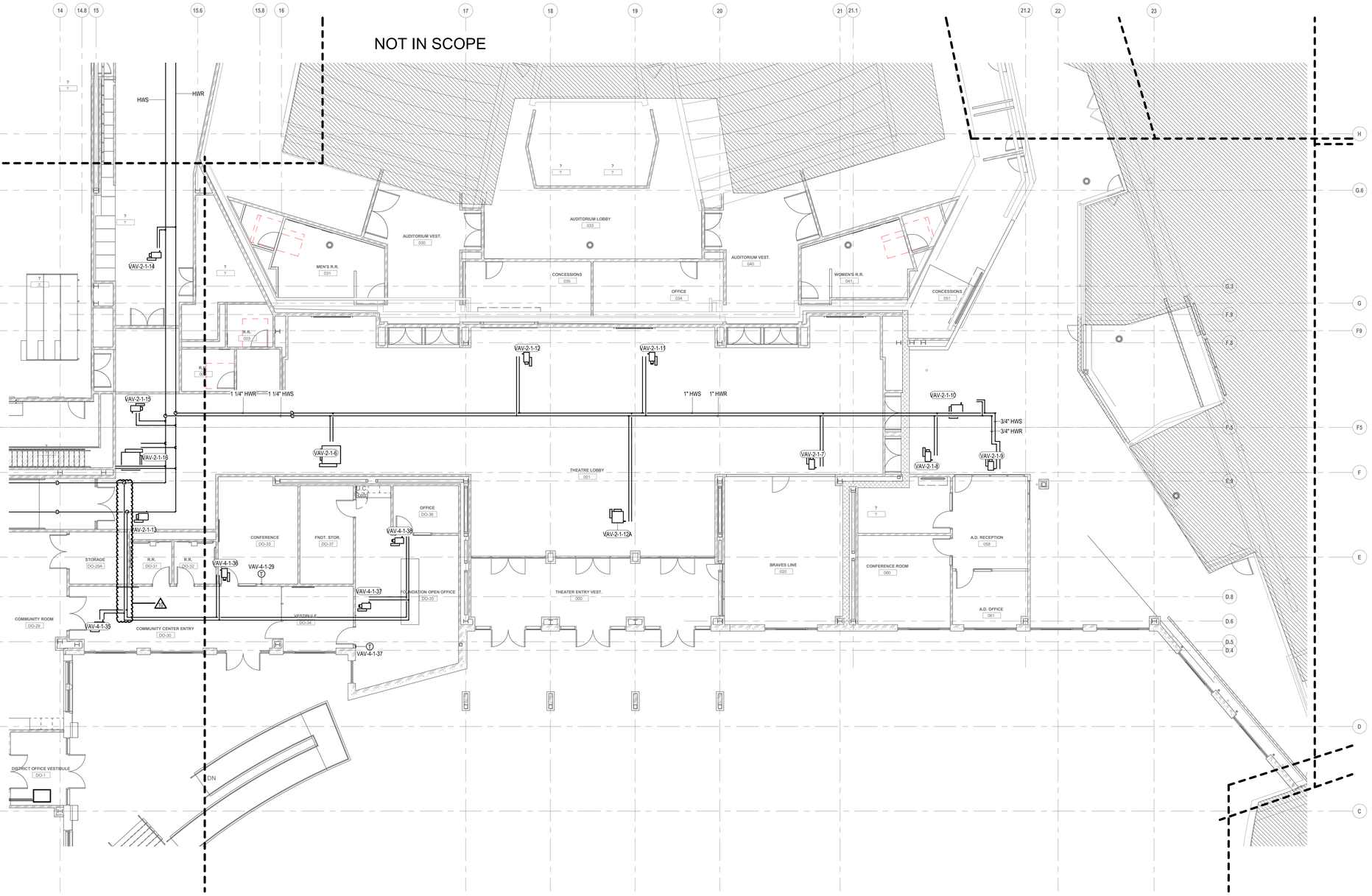
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MP2.14

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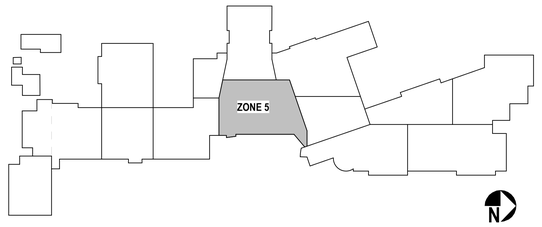
1 MP2.15 ZONE 5 - MAIN LEVEL NEW FLOOR PLAN

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

X GENERAL NOTES:

1. NO GENERAL NOTES ON THIS PLAN

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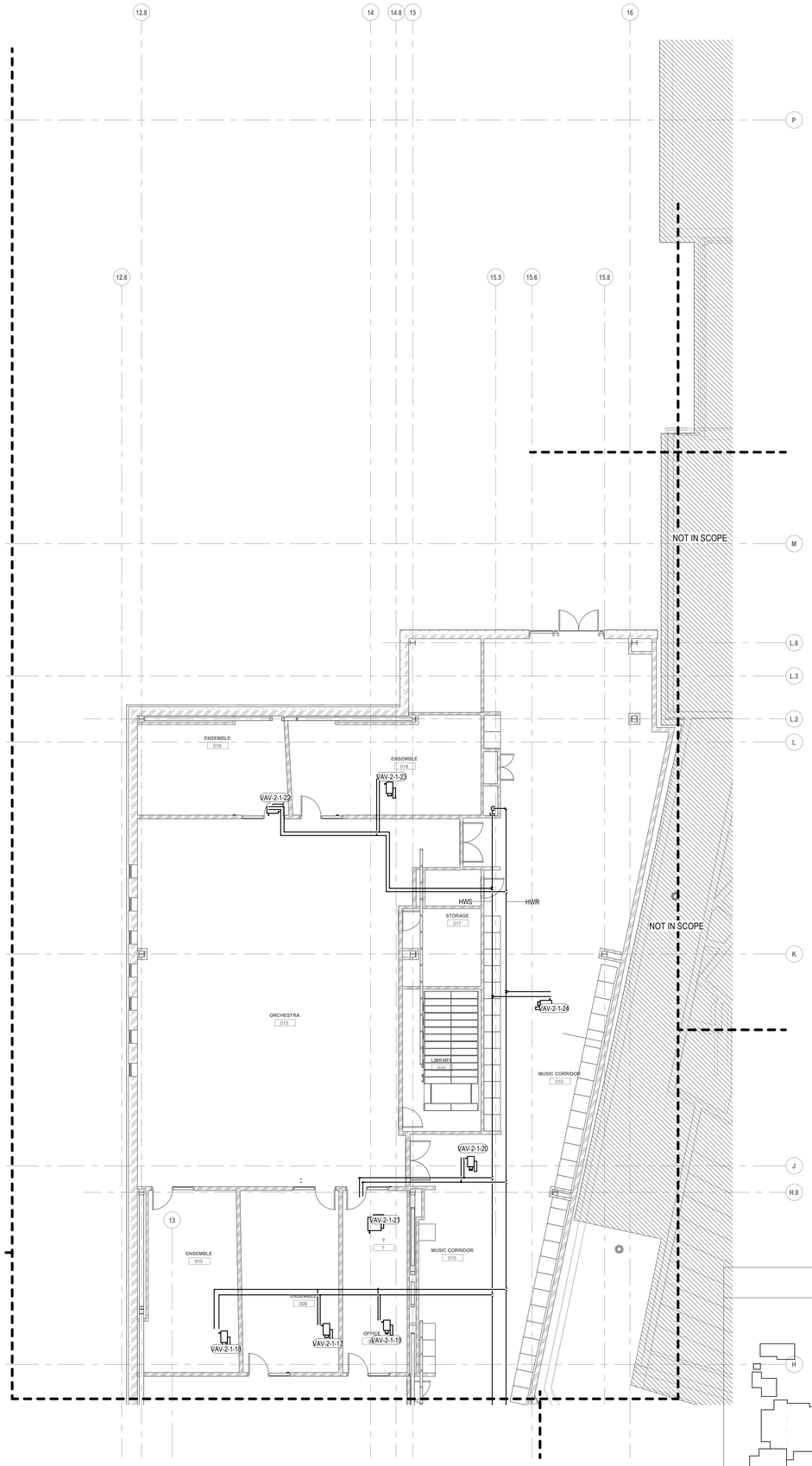
PROJECT NO. 2021.01.015

DRAWING TITLE:

ZONE 5 - MAIN & CONNECTOR LEVEL MECHANICAL PIPING CONSTR. PLAN

MP2.15

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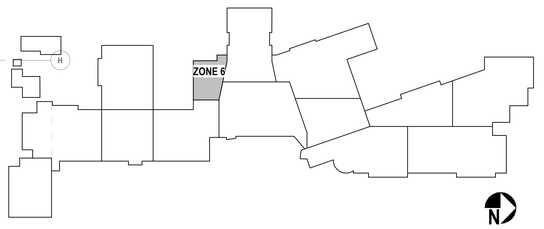


1 MP2.16 ZONE 6 - MAIN LEVEL NEW FLOOR PLAN
SCALE: 1/8" = 1'-0"

GENERAL NOTES:

1. NO GENERAL NOTES ON THIS PLAN

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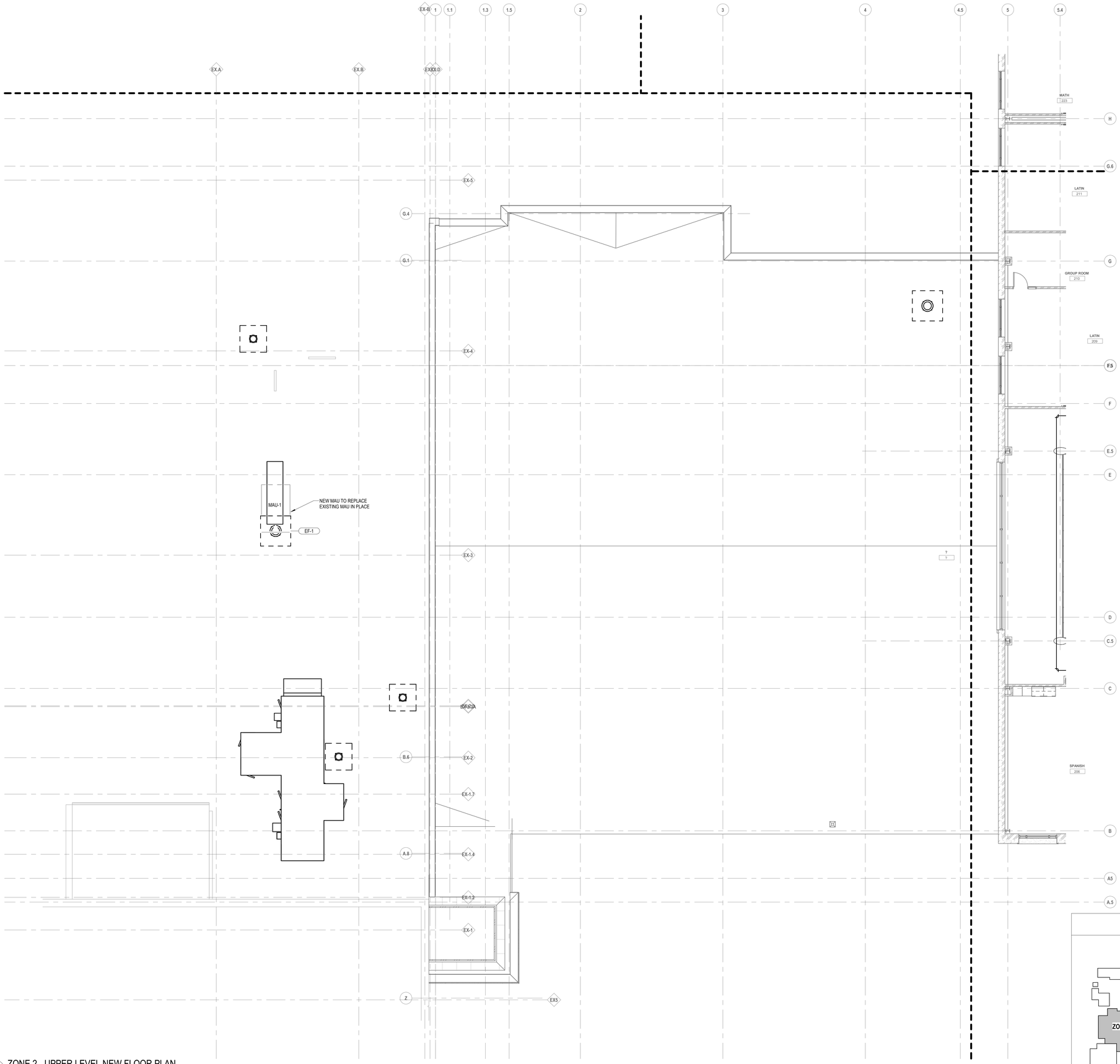
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ZONE 6 - MAIN LVL. MECHANICAL PIPING CONSTR. PLAN

MP2.16

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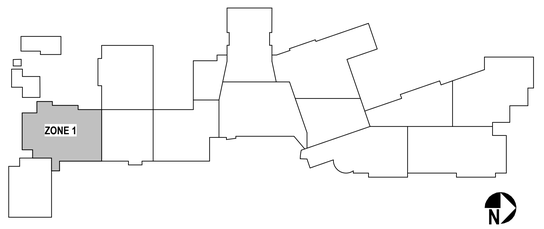
1 MP2.21 ZONE 2 - UPPER LEVEL NEW FLOOR PLAN

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

X GENERAL NOTES:

1. NO GENERAL NOTES ON THIS PLAN

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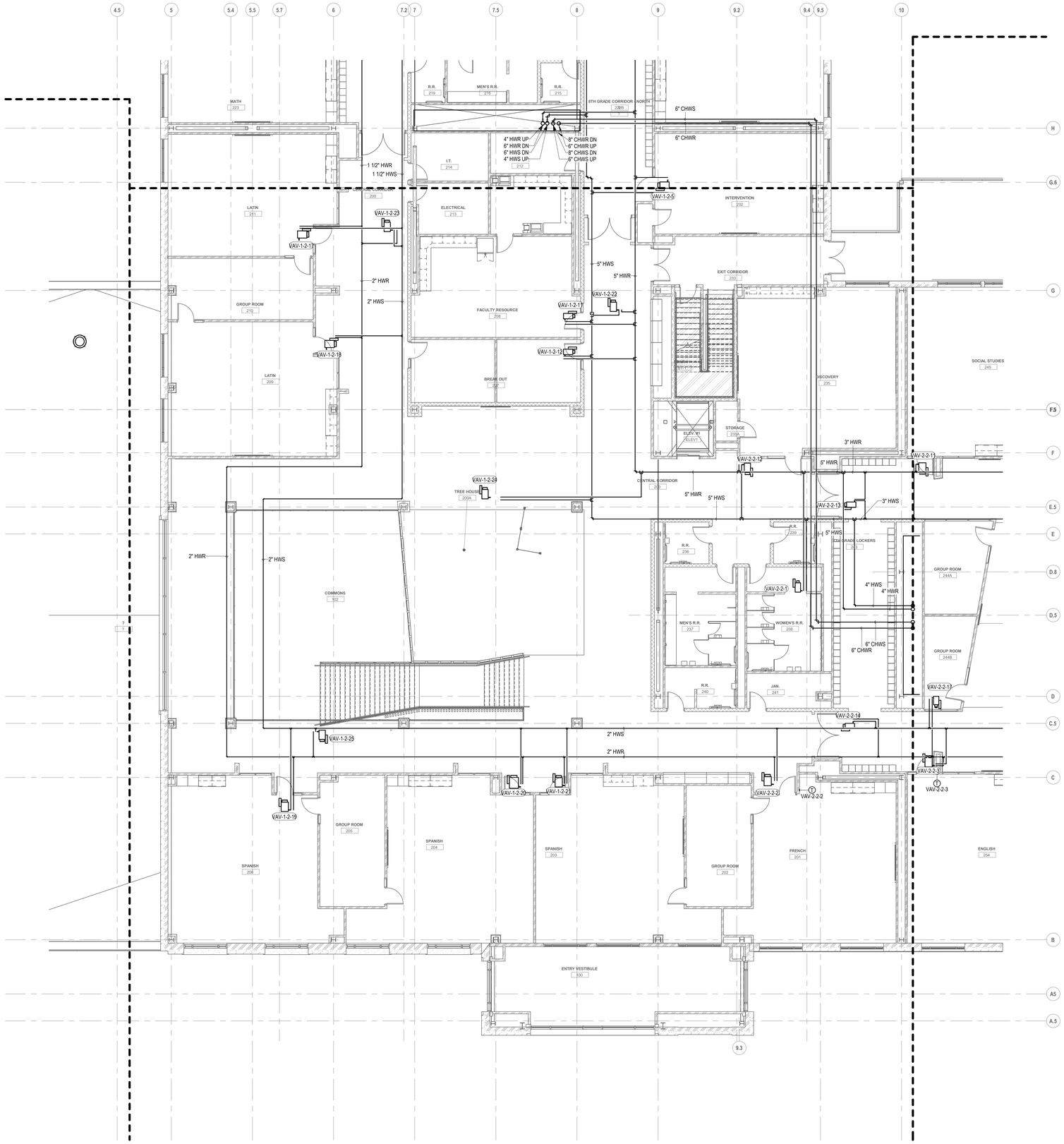
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DRAWING TITLE:
ZONE 1 -
ROOF LEVEL
MECHANICAL PIPING
CONSTR. PLAN

MP2.21

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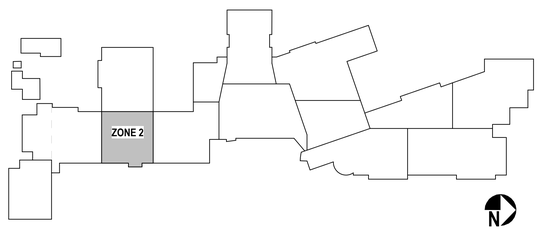
1 MP2.22 ZONE 2 - UPPER LEVEL NEW FLOOR PLAN

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

GENERAL NOTES:

1. NO GENERAL NOTES ON THIS PLAN

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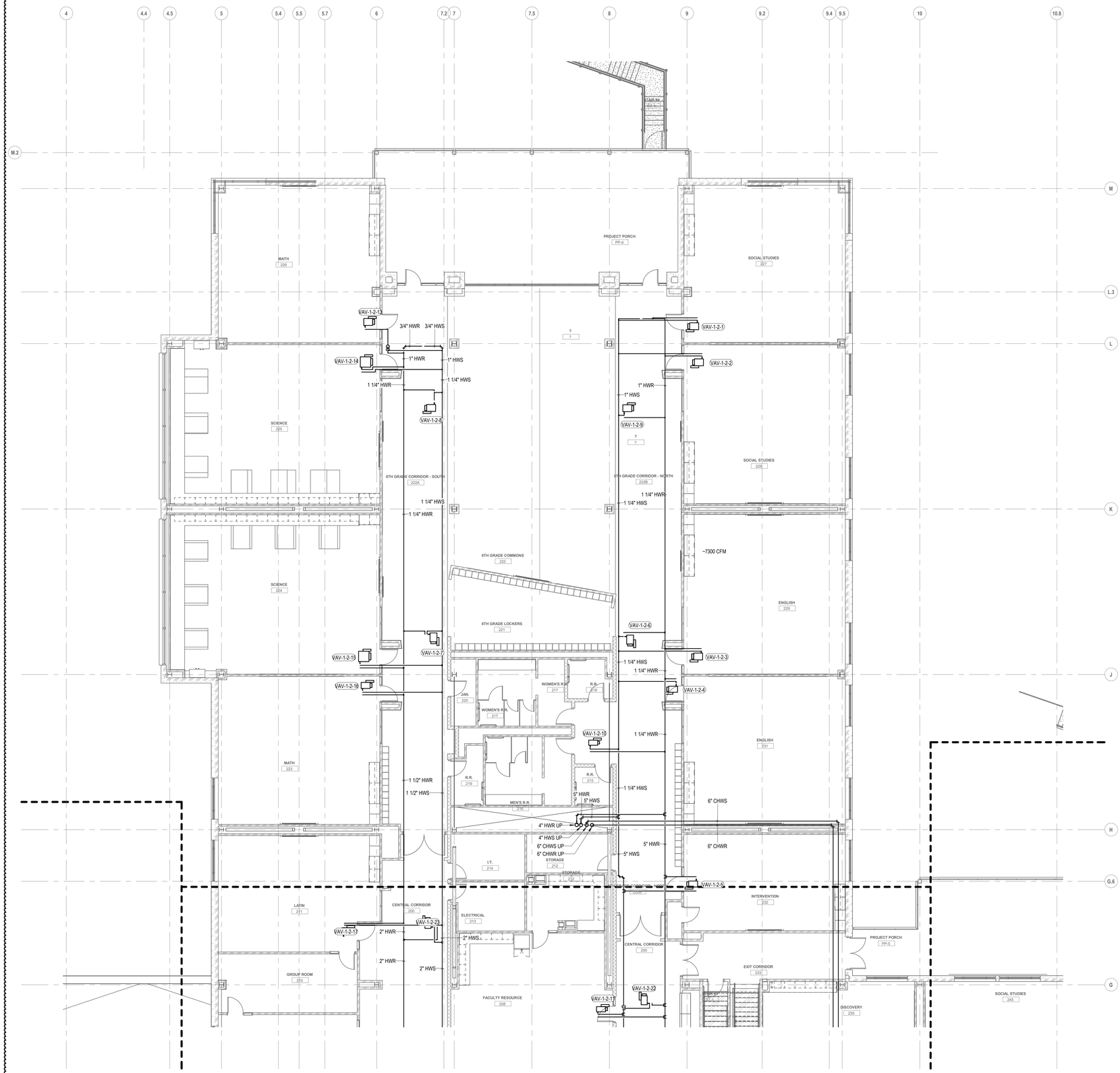
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ZONE 2 - UPPER LVL. MECHANICAL PIPING CONSTRUCTION PLAN

MP2.22

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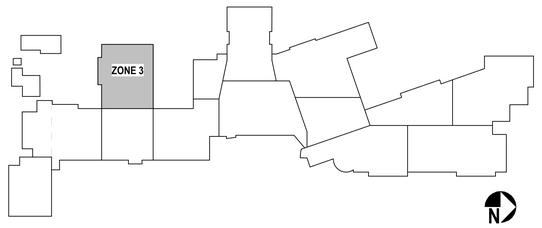
1 MP2.23 ZONE 3 - UPPER LEVEL NEW FLOOR PLAN
SCALE: 1/8" = 1'-0"

X GENERAL NOTES:

1. NO GENERAL NOTES ON THIS PLAN

Key Notes (MP2.23)
SCALE: 1/8" = 1'-0"

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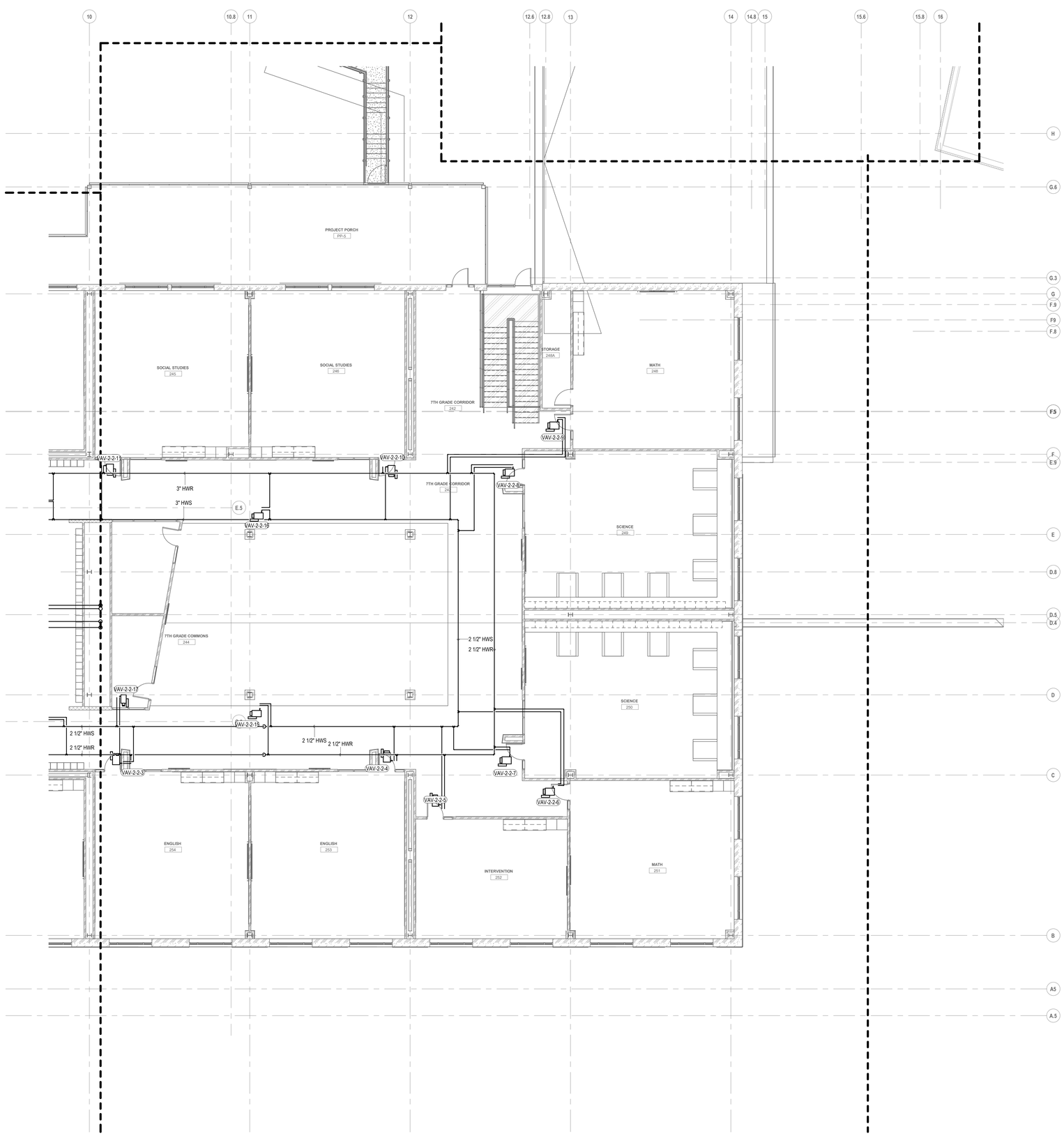
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MP2.23

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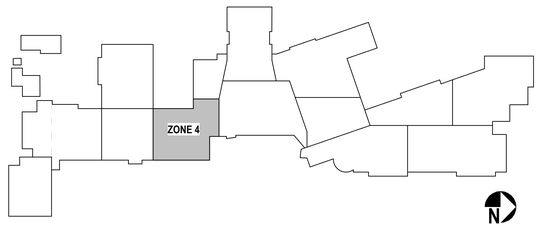


1 MP2.24 ZONE 4 - UPPER LEVEL NEW FLOOR PLAN
SCALE: 1/8" = 1'-0"

GENERAL NOTES:

1. NO GENERAL NOTES ON THIS PLAN

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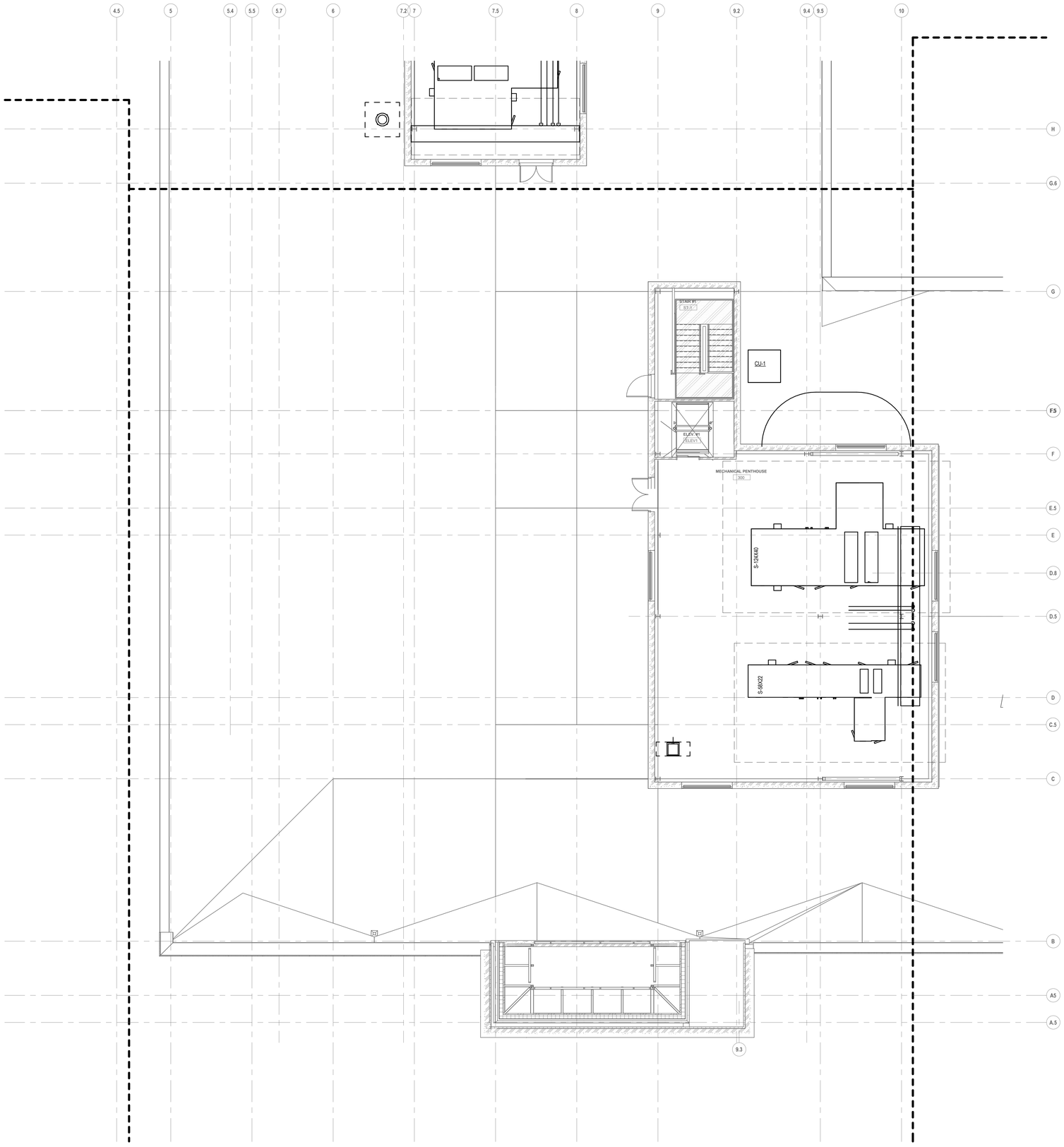
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MP2.24

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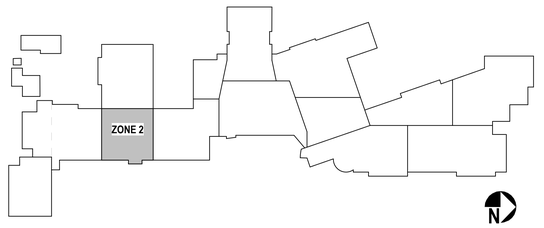


1 MP2.32 ZONE 2 - PENTHOUSE LEVEL NEW FLOOR PLAN
SCALE: 1/8" = 1'-0"

GENERAL NOTES:

1. NO GENERAL NOTES ON THIS PLAN

MS & HS - NEW KEY PLAN N.T.S



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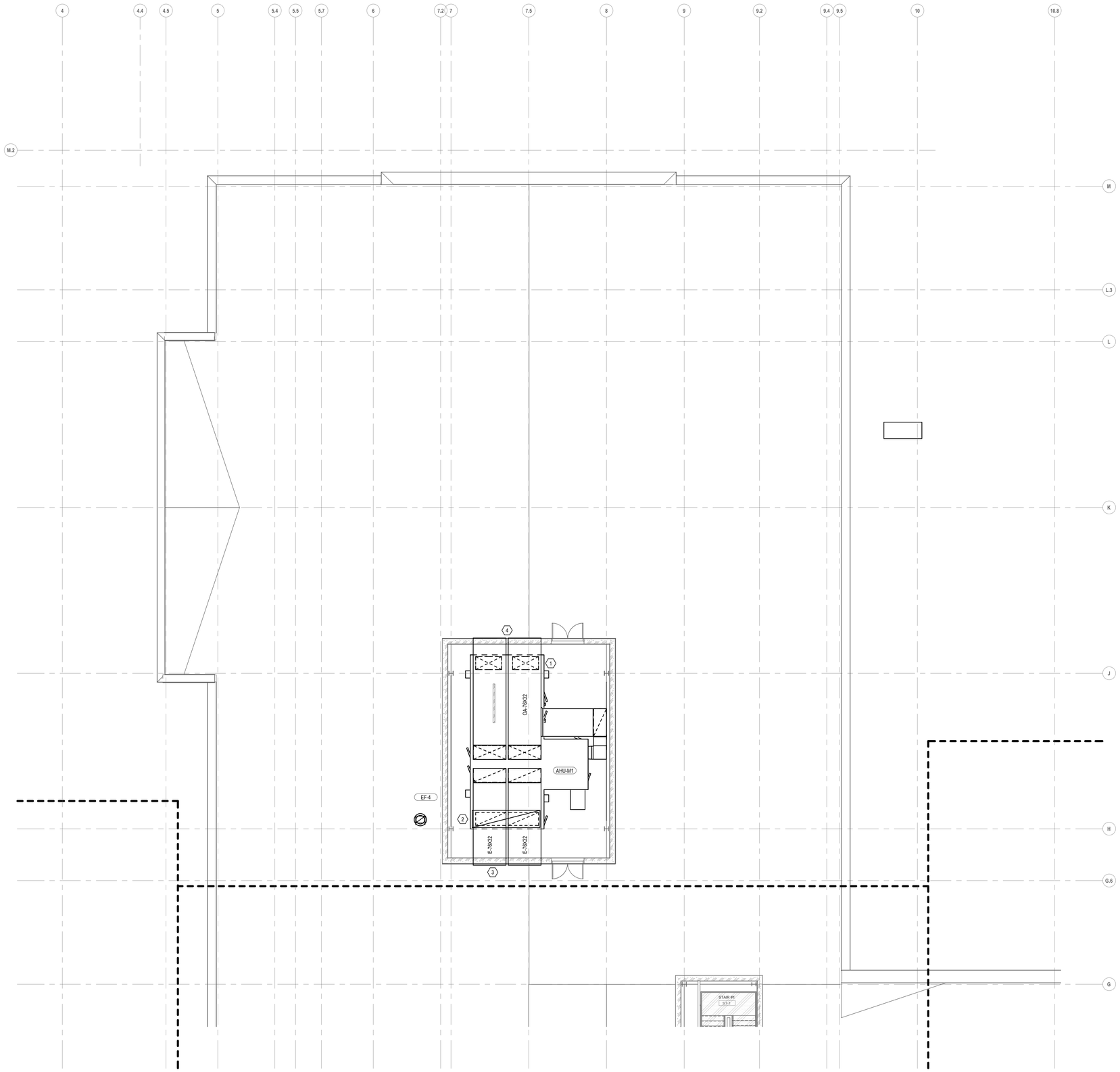
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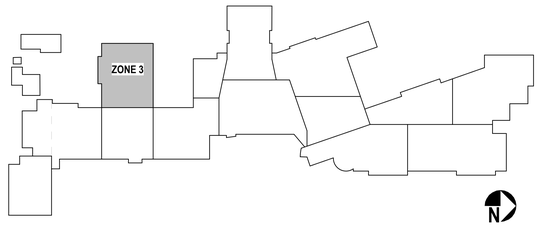


1 ZONE 3 - PENTHOUSE LEVEL NEW FLOOR PLAN
MS2.33 SCALE: 1/8" = 1'-0"

KEYED NOTES:

1. AHU-M1 SUPPLY DUCT TO PENETRATE THROUGH FLOOR WITH (2) 76"X32" DUCTS THROUGH SLAB INTO ABOVE CEILING SPACE. PENETRATIONS TO HAVE FIRE/SMOKE DAMPERS AT FLOOR PENETRATION.
2. AHU-M1 RETURN DUCT TO PENETRATE THROUGH FLOOR WITH (2) 76"X32" DUCTS THROUGH SLAB INTO ABOVE CEILING SPACE. PENETRATIONS TO HAVE FIRE/SMOKE DAMPERS AT FLOOR PENETRATION.
3. AHU-M1 EXHAUST AIR DUCT TO TERMINATE IN LOUVER TWICE THE FULL SIZE OF THE DUCTWORK TERMINATING TO THE EXTERIOR WALL. ADJACENT DUCTS MAY UTLIZE A SINGLE LOUVER FOR USE OF BOTH DUCTS. RESULTING LOUVER TO BE 157"X64".
4. AHU-M1 OUTDOOR AIR DUCT TO TERMINATE IN LOUVER TWICE THE FULL SIZE OF THE DUCTWORK TERMINATING TO THE EXTERIOR WALL. ADJACENT DUCTS MAY UTLIZE A SINGLE LOUVER FOR USE OF BOTH DUCTS. RESULTING LOUVER TO BE 157"X64".

MS & HS - NEW KEY PLAN N.T.S



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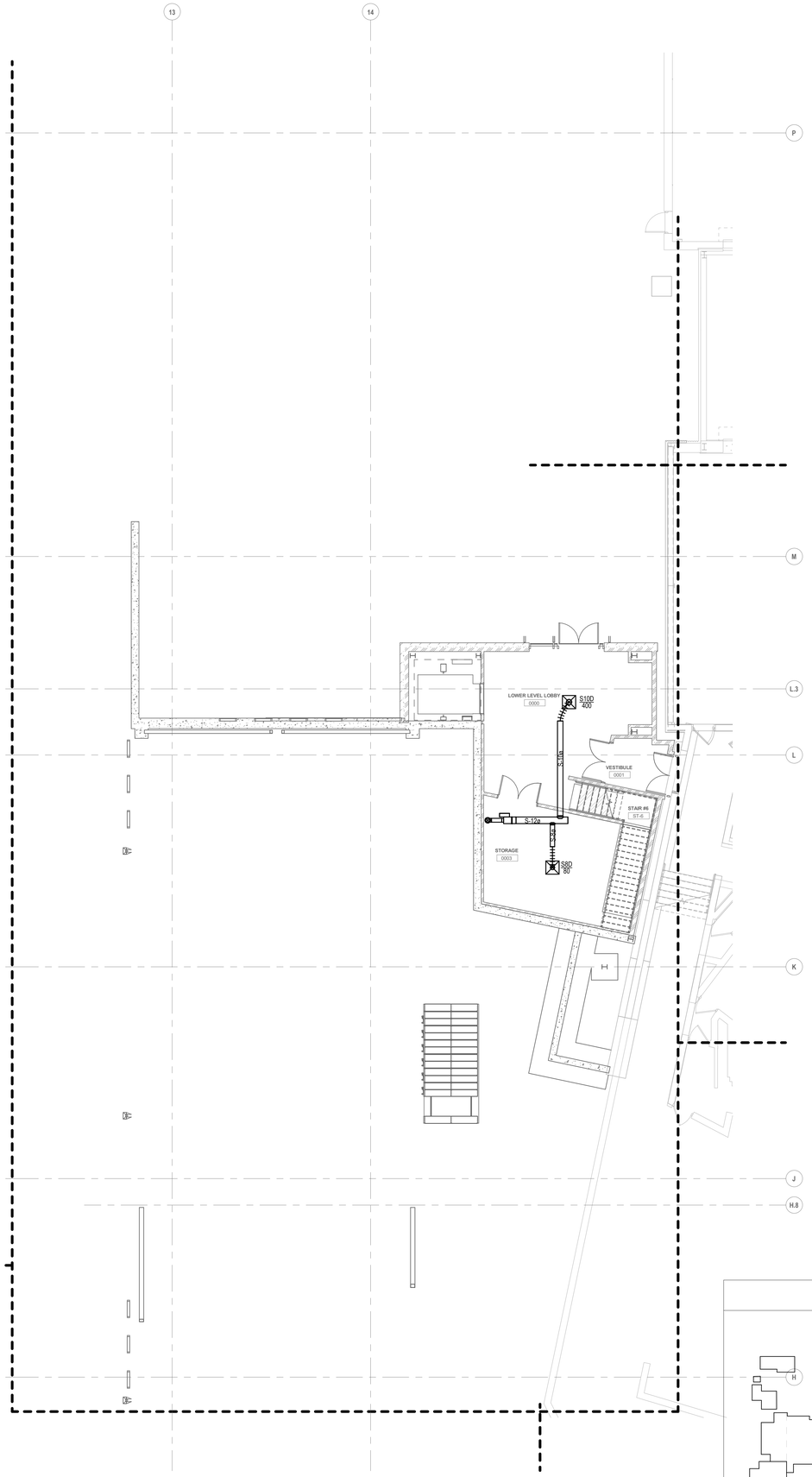
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	05/03/2022	FOR PERMIT
5	06/01/2022	ADD#3 TO 100% CD
10	09/09/2022	BULLETIN 5

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PROJECT NO. **2021.01.015**

DRAWING TITLE:
ZONE 3 - PENTHOUSE MECH. SHEET METAL CONSTR. PLAN

MS2.33

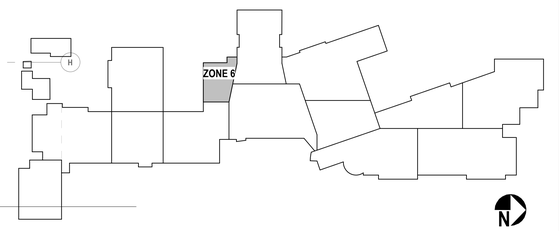


1 MS2.10 ZONE 6 - LOWER LEVEL MECHANICAL SHEET METAL CONSTRUCTION PLAN
SCALE: 1/8" = 1'-0"

GENERAL NOTES:

1. NO GENERAL NOTES ON THIS PLAN

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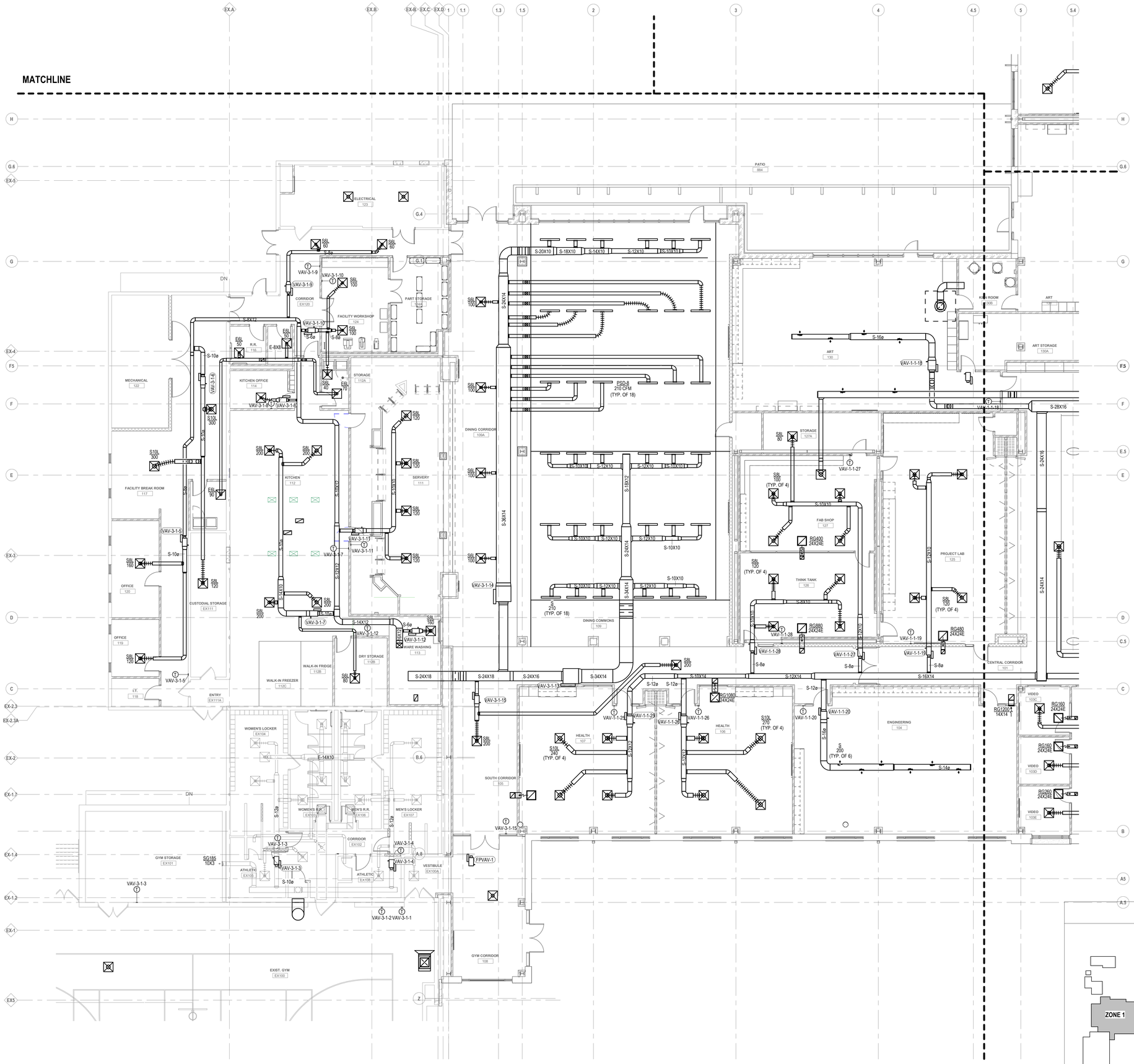
PROJECT NO. **2021.01.015**

DRAWING TITLE:
ZONE 6 -
LOWER LVL. MECH.
SHEET METAL
CONSTR. PLAN

MS2.10

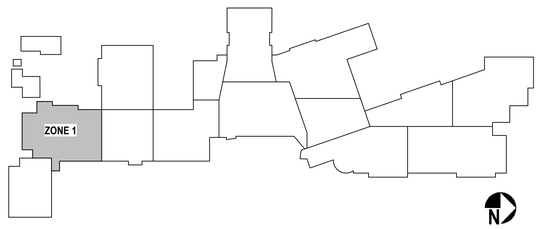
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MATCHLINE



1 ZONE 1 - MAIN LEVEL NEW FLOOR PLAN
MS2.11 SCALE: 1/8" = 1'-0"

MS & HS - NEW KEY PLAN N.T.S



GENERAL NOTES:

1. NO GENERAL NOTES ON THIS PLAN

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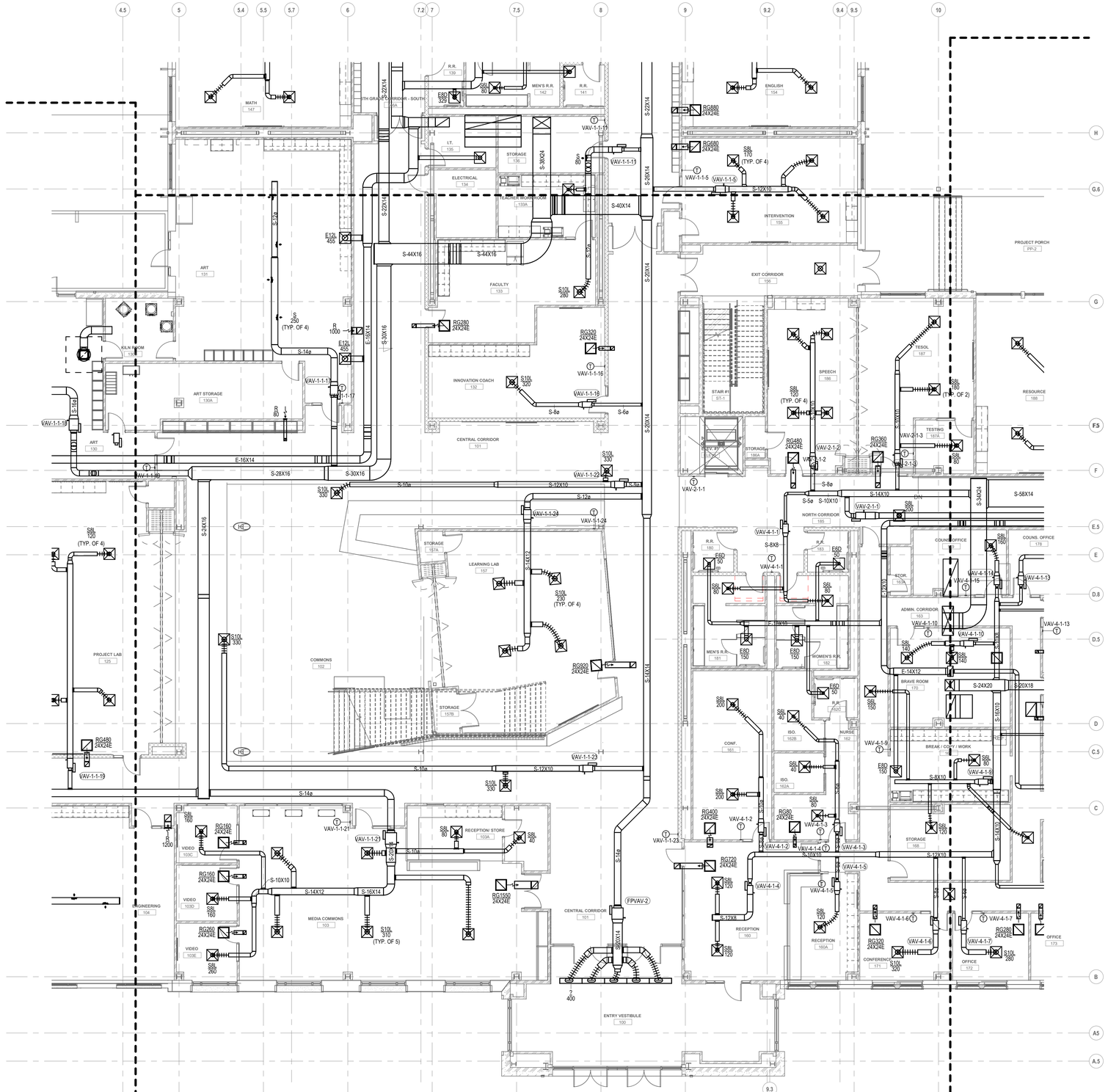
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DRAWING TITLE:
ZONE 1 - MAIN LVL
MECHANICAL
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MS2.11

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1 ZONE 2 - MAIN LEVEL NEW FLOOR PLAN
MS2.12 SCALE: 1/8" = 1'-0"

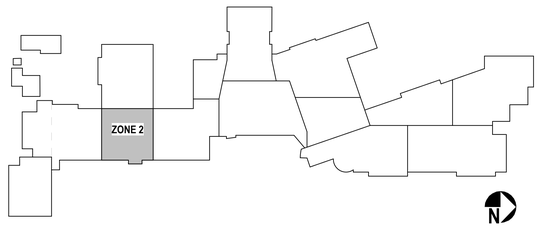
GENERAL NOTES:

1. NO GENERAL NOTES ON THIS PLAN

Key Notes (MS2.12)

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

MS & HS - NEW KEY PLAN N.T.S



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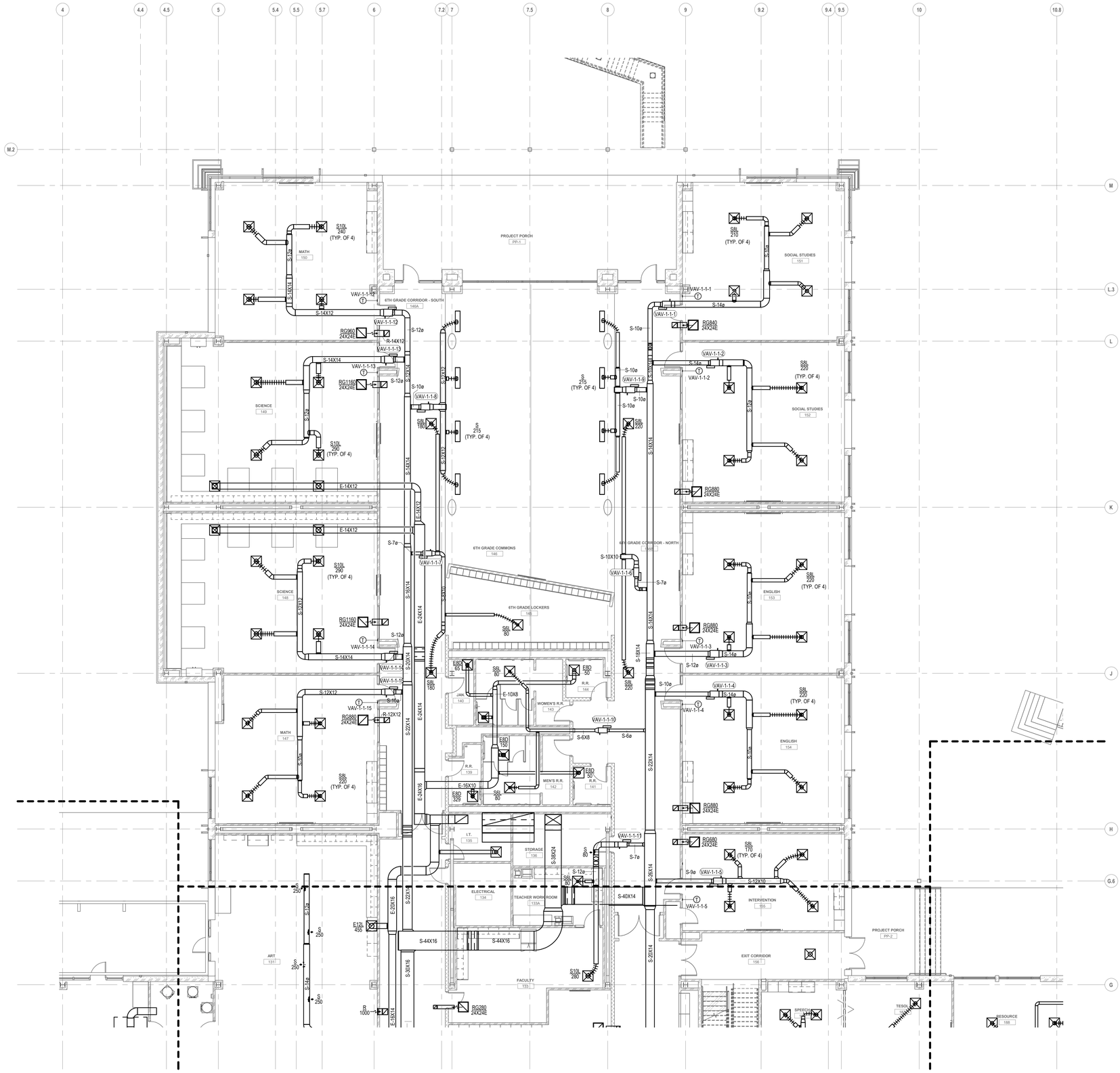
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ZONE 2 - MAIN LVL MECHANICAL SHEET METAL CONSTR. PLAN

MS2.12

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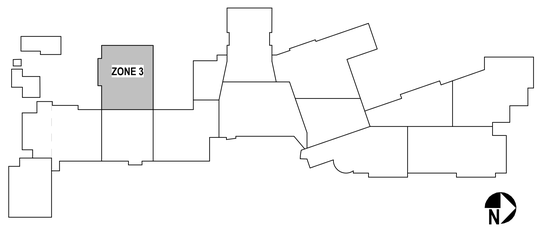
1 / MS2.13 ZONE 3 - MAIN LEVEL NEW FLOOR PLAN

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

GENERAL NOTES:

1. NO GENERAL NOTES ON THIS PLAN

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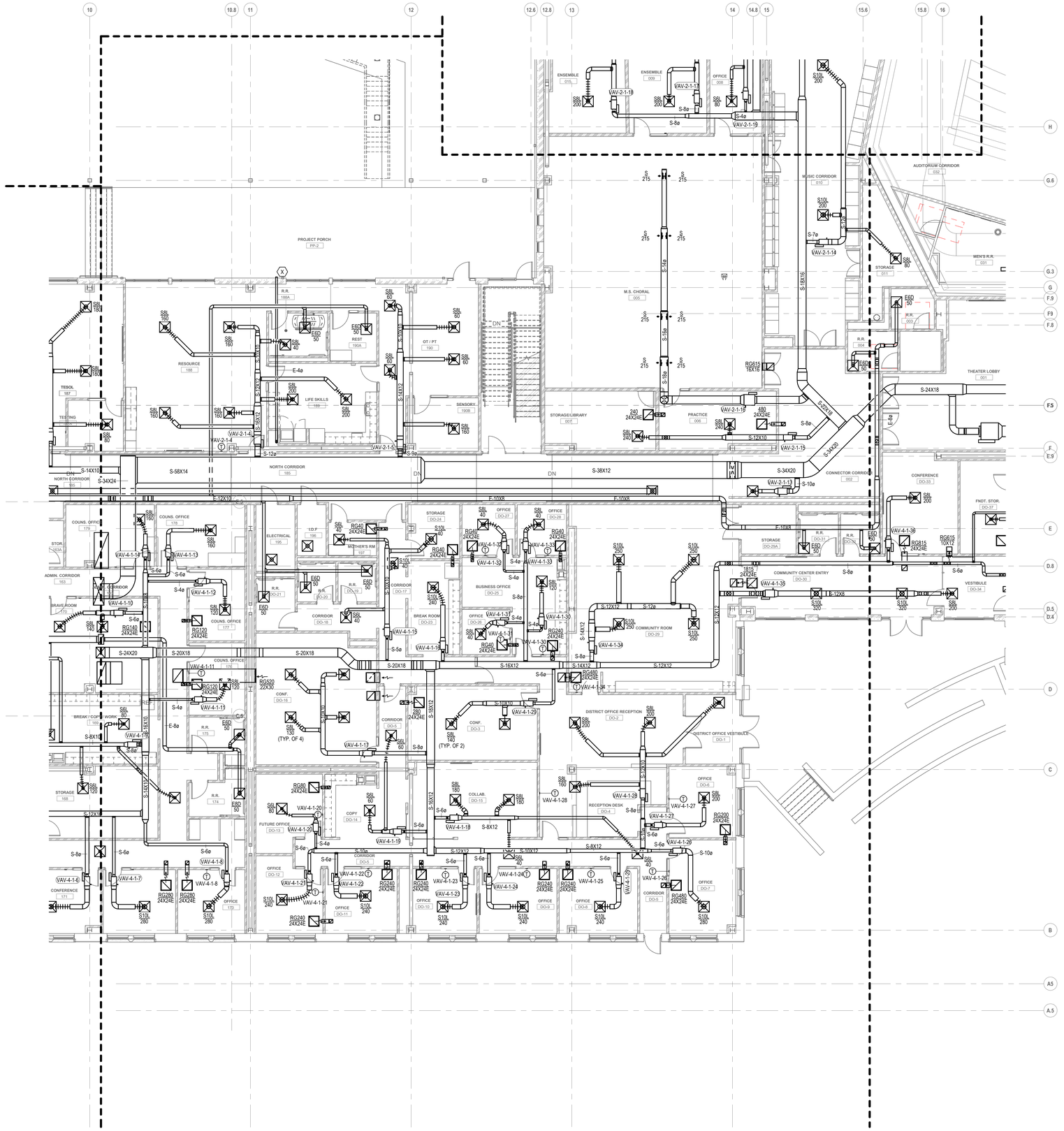
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ZONE 3 - MAIN LVL.
MECHANICAL
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MS2.13

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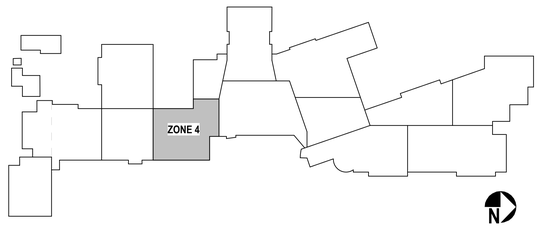


1 MS2.14 ZONE 4 - MAIN LEVEL NEW FLOOR PLAN
SCALE: 1/8" = 1'-0"

(X) GENERAL NOTES:

1. 4" DRYER EXHAUST TERMINATE WITH DRYER VENT AND CAP WITH BIRD SCREEN

MS & HS - NEW KEY PLAN N.T.S



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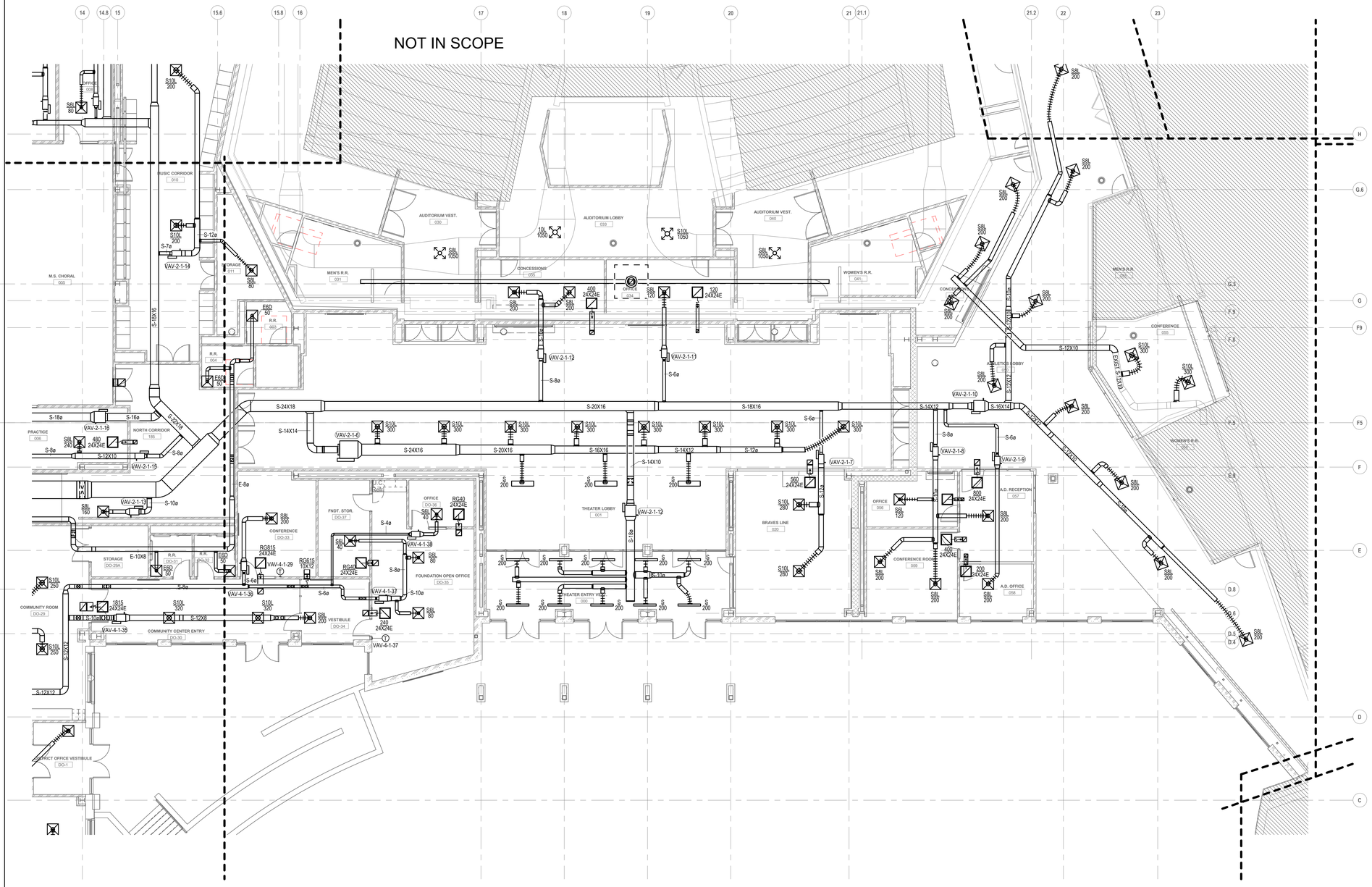
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PROJECT NO. 2021.01.015

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ZONE 4 - MAIN LVL
MECHANICAL
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CONSTR. PLAN

MS2.14

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1 MS2.15 ZONE 5 - MAIN LEVEL NEW FLOOR PLAN

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

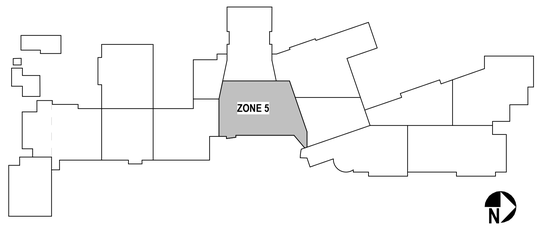
GENERAL NOTES:

1. NO GENERAL NOTES ON THIS PLAN

Key Notes (MS2.15)

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

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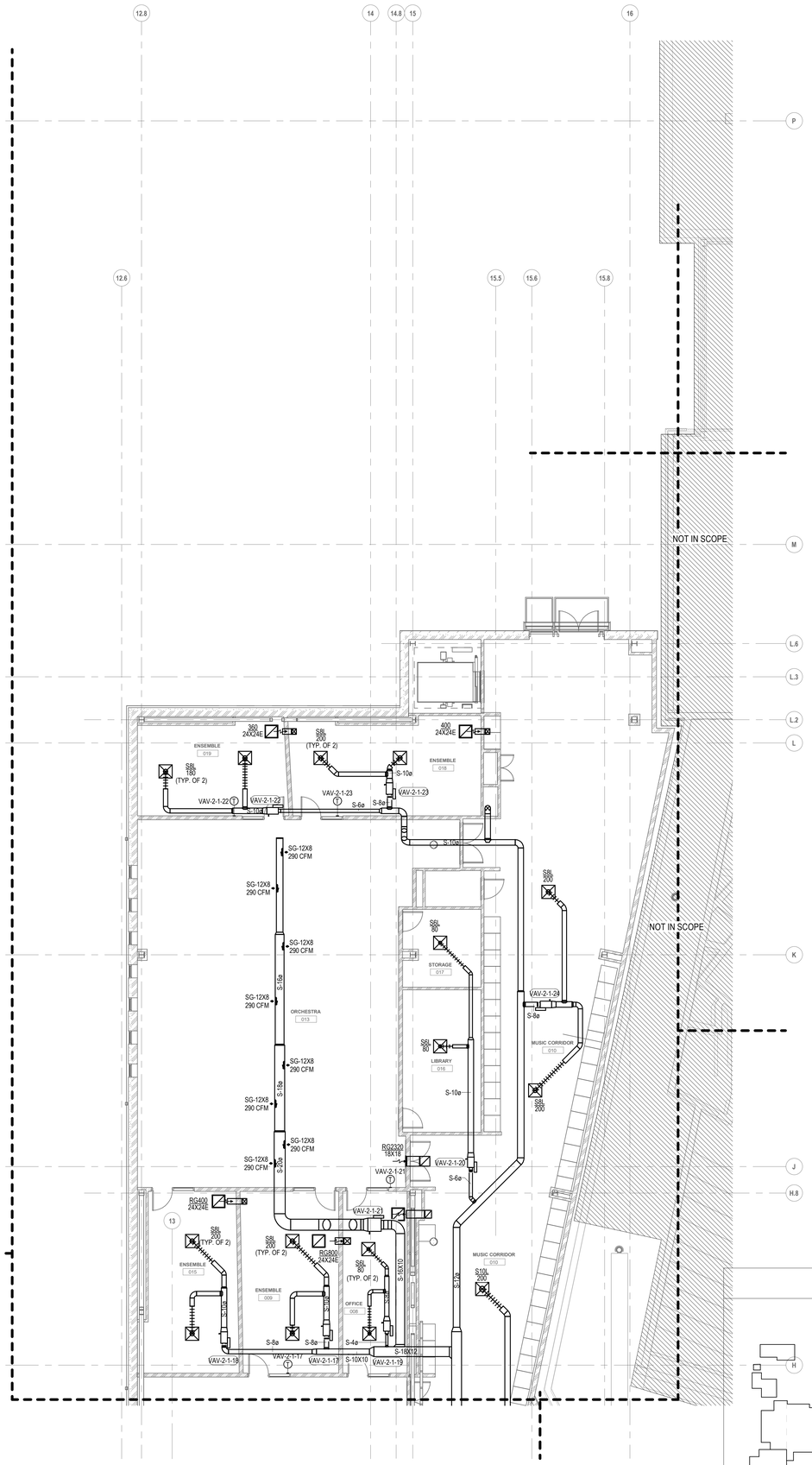
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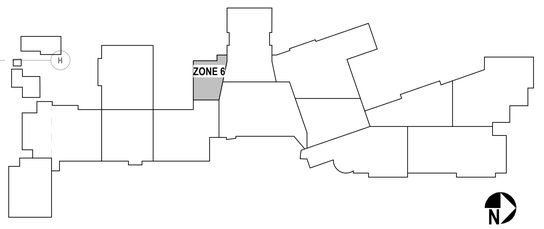
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ZONE 5 - MAIN LVL. MECHANICAL SHEET METAL CONSTR. PLAN

MS2.15

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1 MS2.16 ZONE 6 - MAIN LEVEL NEW FLOOR PLAN

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

GENERAL NOTES:

1. NO GENERAL NOTES ON THIS PLAN

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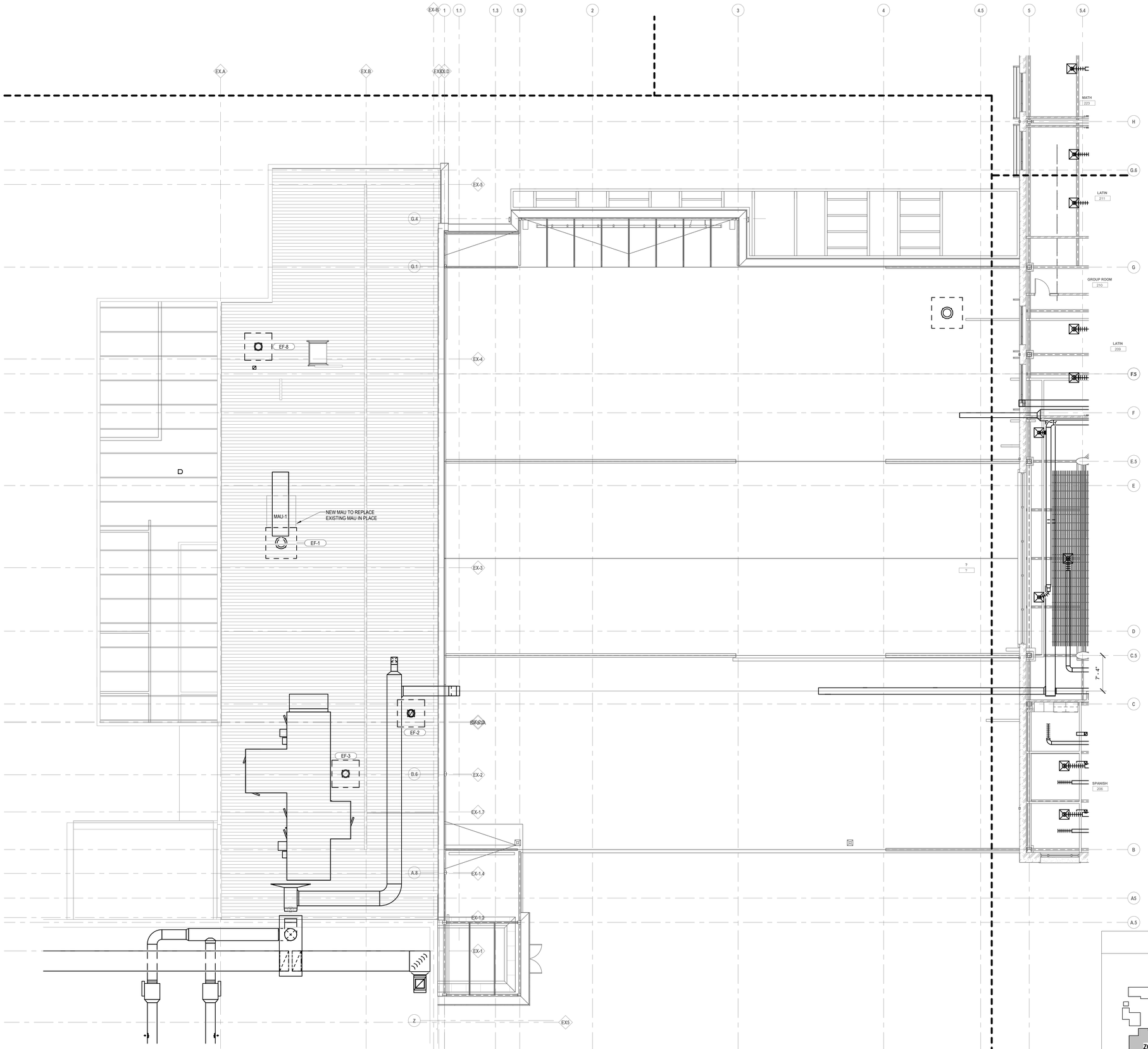
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ZONE 6 - MAIN LVL
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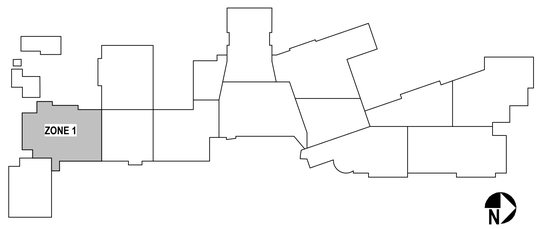


1 MS2.21 ZONE 1 - ROOF PLAN
SCALE: 1/8" = 1'-0"

GENERAL NOTES:

1. NO GENERAL NOTES ON THIS PLAN

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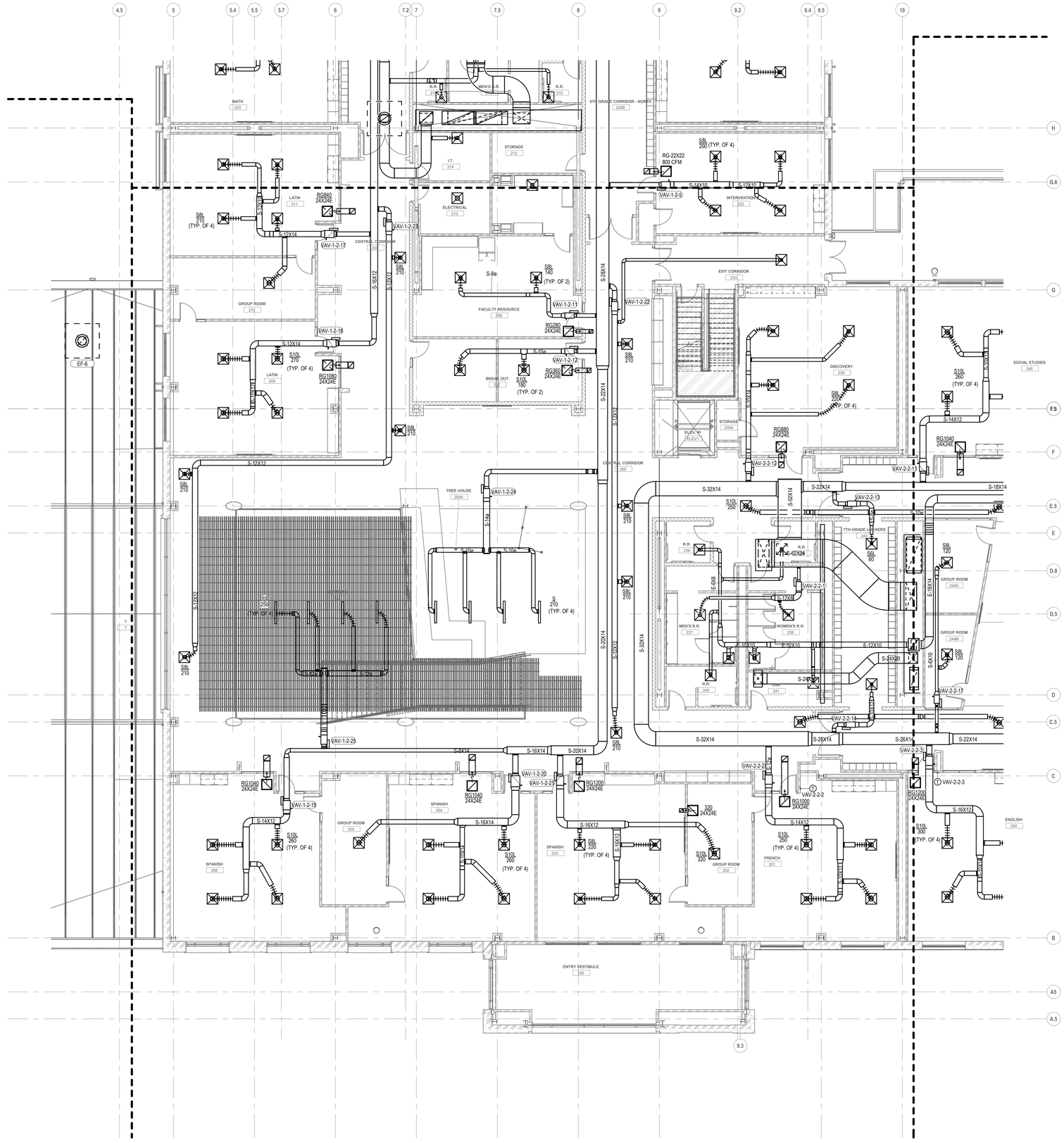
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ZONE 1 - ROOF LVL.
MECHANICAL
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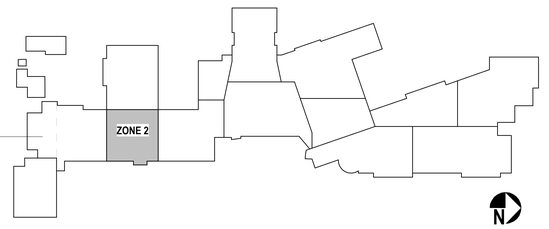
1 MS2.22 ZONE 2 - UPPER LEVEL NEW FLOOR PLAN

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

GENERAL NOTES:

1. NO GENERAL NOTES ON THIS PLAN

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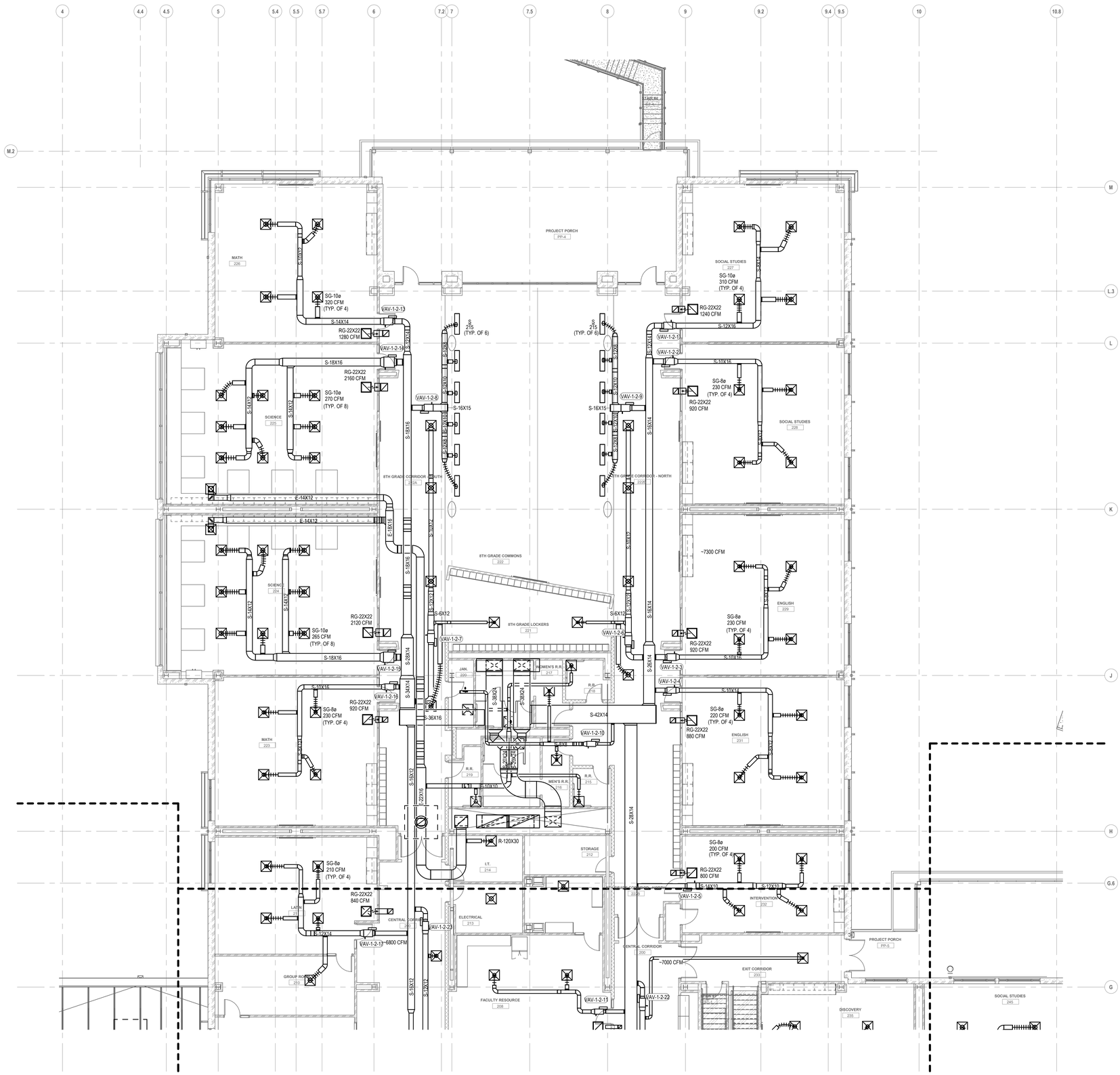
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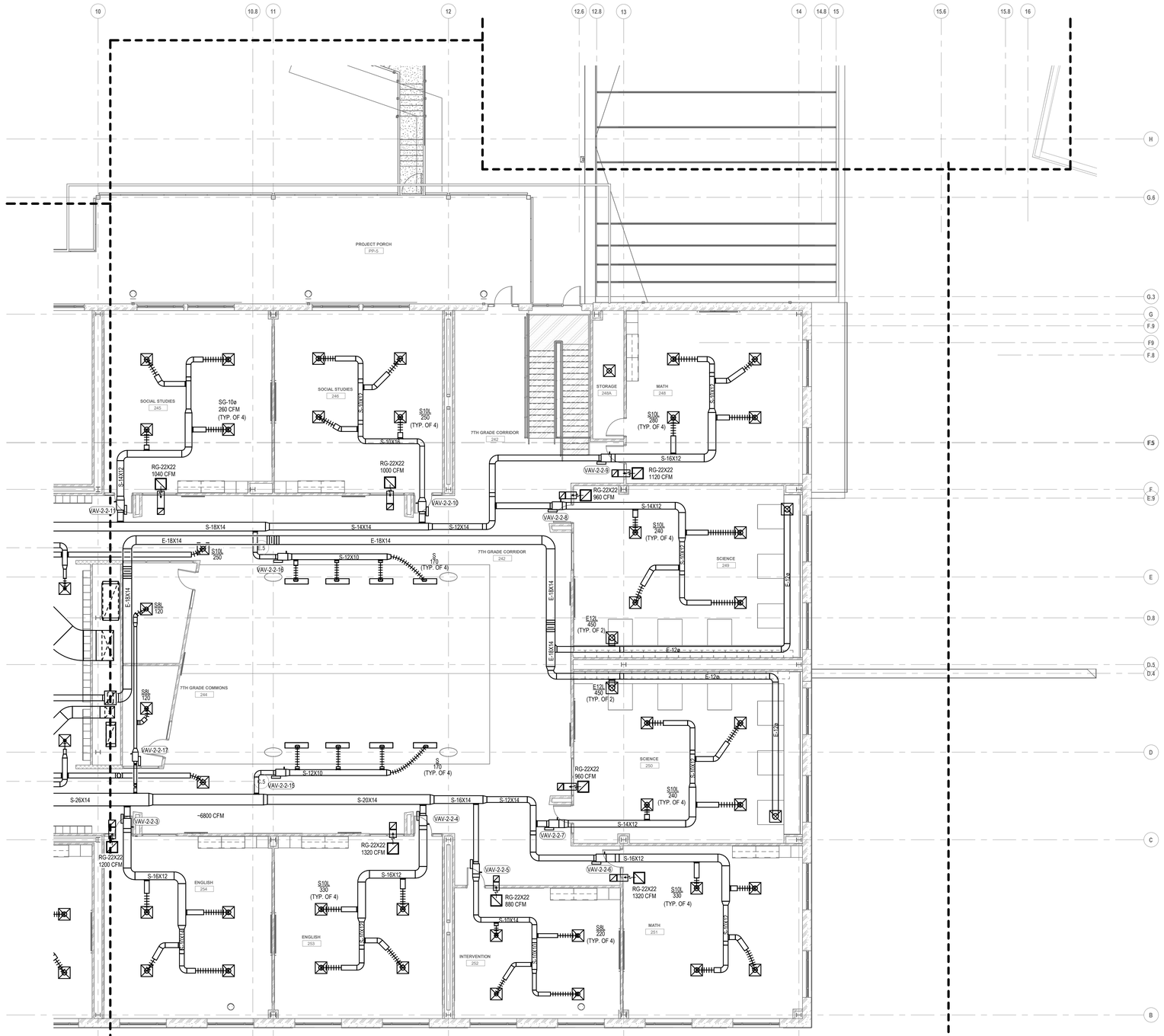
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ZONE 2 - UPPER LVL.
MECHANICAL
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MS2.22

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MATH
226
SG-10a
320 CFM
(TYP. OF 4)
S-10X12
S-14X14
RG-22X22
1280 CFM
VAV-1-2-13
S-12X14
VAV-1-2-14
S-18X16
RG-22X22
2160 CFM
SG-10a
270 CFM
(TYP. OF 8)
S-14X12
SCIENCE
220
S-18X16
VAV-1-2-8
S-16X15
E-14X12
E-14X12
E-18X16
8TH GRADE CORRIDOR - SOUTH
222A
8TH GRADE COMMONS
222
SCIENCE
224
SG-10a
265 CFM
(TYP. OF 8)
RG-22X22
2120 CFM
S-18X16
VAV-1-2-15
S-10X16
VAV-1-2-16
SG-8a
230 CFM
(TYP. OF 4)
RG-22X22
920 CFM
MATH
223
S-36X16
S-18X12
S-22X16
S-6X12
VAV-1-2-7
8TH GRADE LOCKERS
221
JAN.
200
WOMEN'S R.R.
217
R.R.
218
S-38X24
S-42X14
VAV-1-2-10
S-8X8
S-30X10
R.R.
219
MEN'S R.R.
216
R.R.
215
S-10X10
R-120X30
STORAGE
212
I.T.
214
SG-8a
210 CFM
(TYP. OF 4)
RG-22X22
840 CFM
LATIN
211
CENTRAL CORRIDOR
201
S-12X14
VAV-1-2-17
~6800 CFM
VAV-1-2-23
ELECTRICAL
213
GROUP ROOM
209
S-18X12
S-12X12
FACULTY RESOURCE
208
VAV-1-2-11
S-28X14
PROJECT PORCH
PP-4
2x6
(TYP. OF 6)
S-12X14
S-12X16
VAV-1-2-9
S-16X15
S-12X16
S-18X14
S-12X16
S-12X16
S-12X16



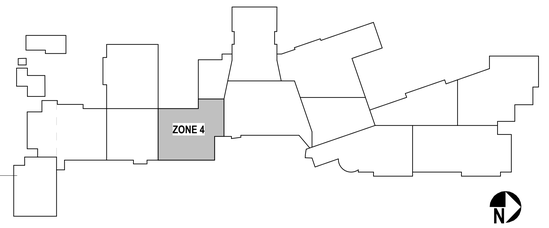
1 MS2.24 ZONE 4 - UPPER LEVEL NEW FLOOR PLAN

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

GENERAL NOTES:

1. NO GENERAL NOTES ON THIS PLAN

MS & HS - NEW KEY PLAN N.T.S



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msarch.com | 855.241.5666

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MIDDLE SCHOOL BUILDING

INDIAN HILL SCHOOL DISTRICT

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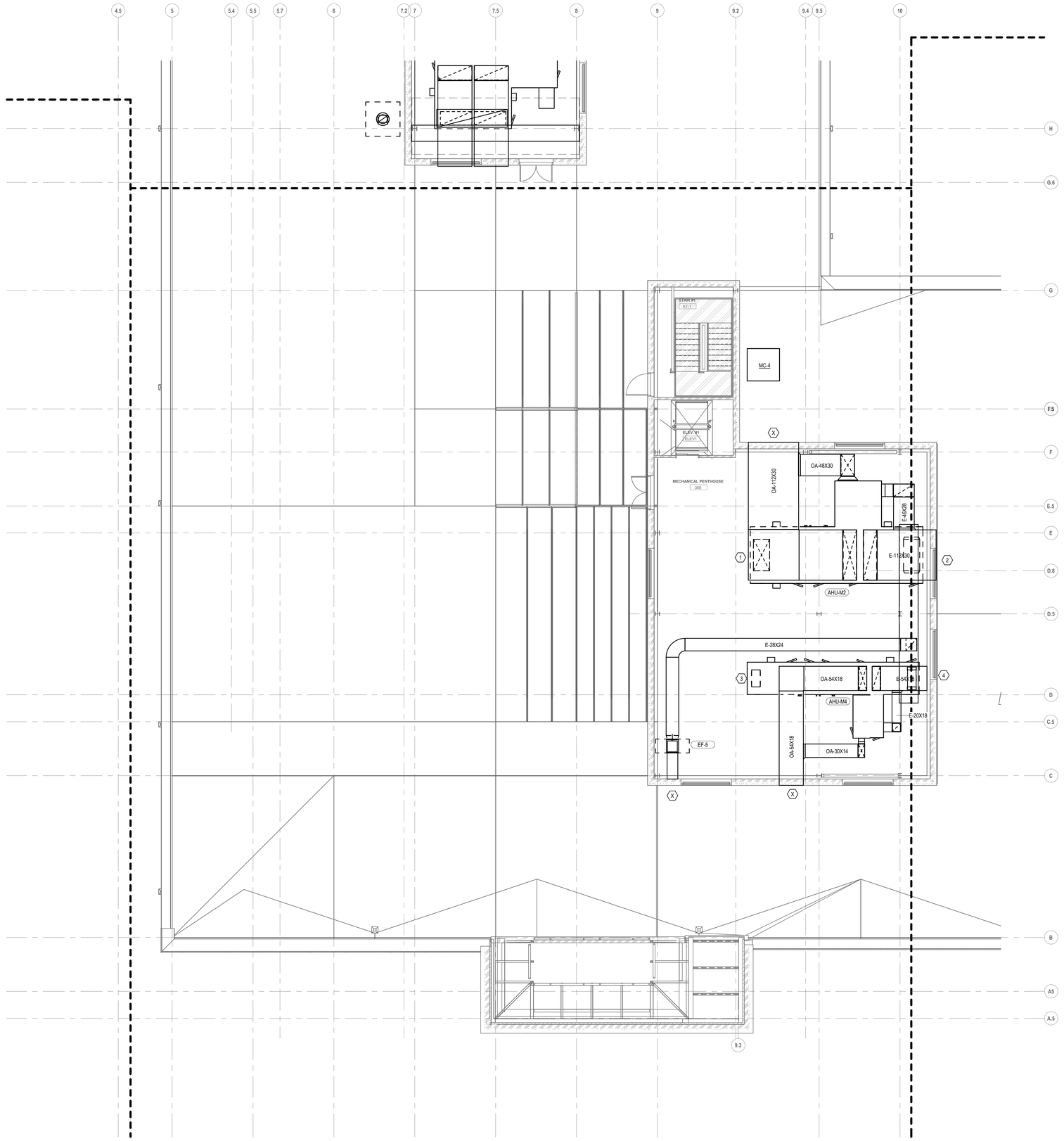
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DRAWING TITLE:
ZONE 4 - UPPER LVL.
MECHANICAL
SHEET METAL
CONSTR. PLAN

MS2.24

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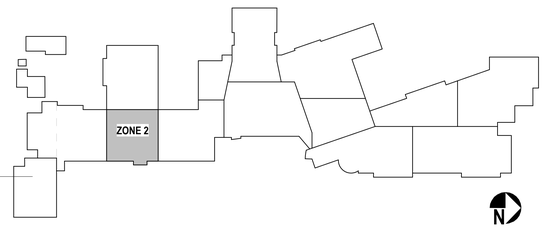
1 MS2.32 ZONE 2 - PENTHOUSE LEVEL NEW FLOOR PLAN

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

GENERAL NOTES:

1. AHU-M2 SUPPLY TO BE 70X36 DOWN TRANSITIONING TO 62X24 AFTER PENTRATING THE FLOOR.
2. AHU-M2 RETURN TO BE 70X36 DOWN TRANSITIONING TO 80X32 AFTER PENETRATING THE FLOOR INTO THE CHASE SPACE.
3. AHU-M4 SUPPLY TO BE 38X20 DOWN TRANSITIONING TO 24X20 AFTER PENETRATING THE FLOOR.
4. AHU-M4 RETURN TO BE 38X20 DOWN TRANSITIONING TO 50X20 AFTER PENETRATING THE FLOOR INTO THE CHASE SPACE.

MS & HS - NEW KEY PLAN N.T.S



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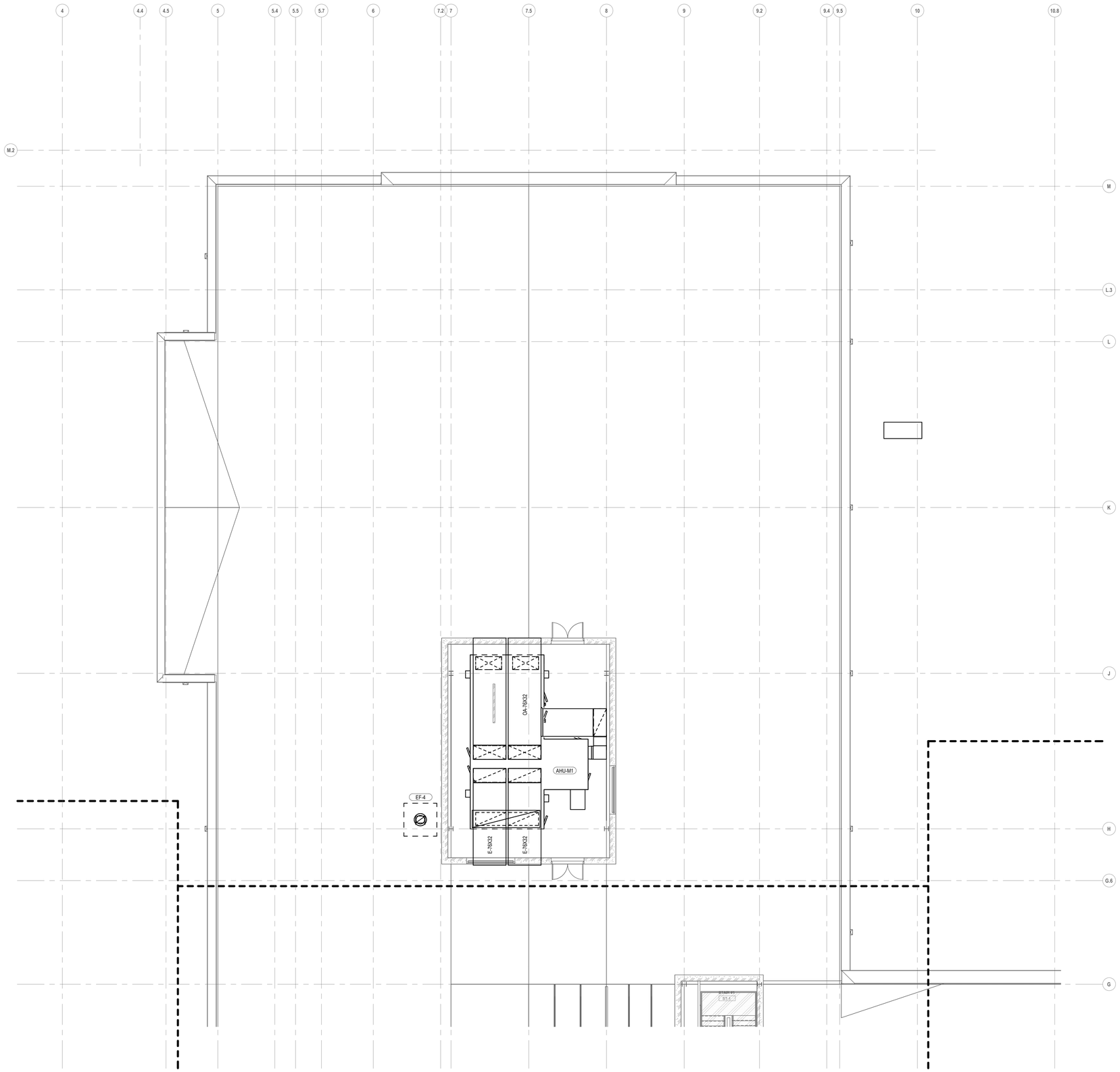
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DRAWING TITLE:
ZONE 2 - PENTHOUSE MECH. SHEET METAL CONSTR. PLAN

MS2.32

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1 MS2.33 ZONE 3 - PENTHOUSE LEVEL NEW FLOOR PLAN

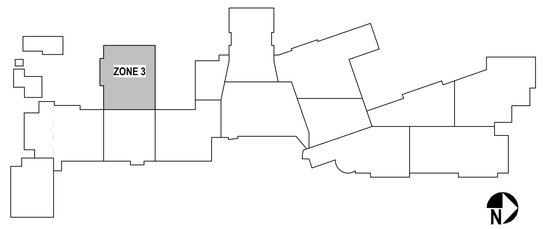
SCALE: 1/8" = 1'-0"

GENERAL NOTES:

X

1. NO GENERAL NOTES ON THIS PLAN

MS & HS - NEW KEY PLAN N.T.S



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DRAWING TITLE:
ZONE 3 - PENTHOUSE MECH. SHEET METAL CONSTR. PLAN

MS2.33

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