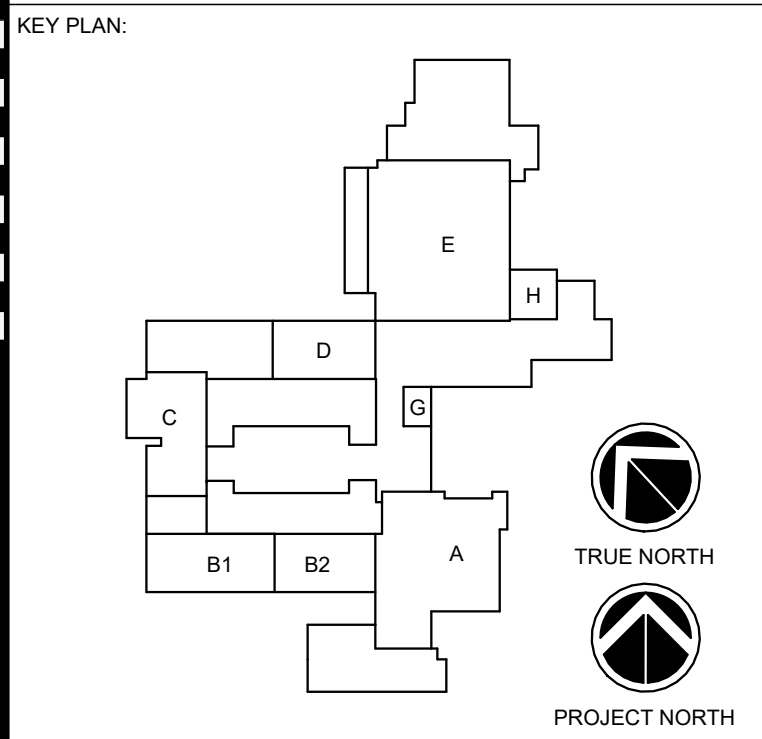


MATERIAL SCHEDULE

MARK	MANUFACTURER	MODEL	COLOR/FINISH	PRODUCT NUMBER	COMMENTS/COMMON LOCATION
ACOUSTIC FINISHES					
AWC-1	MOMENTUM TEXTILES & WALLCOVERINGS	NUFELT LANGLEY	MINERAL GRAY	PTLY-24	
AWC-2	MOMENTUM TEXTILES & WALLCOVERINGS	NUFELT LANGLEY	ASTRONOMICAL	PTLY-17	
ACOUSTICAL CEILINGS					
ACT-1	ARMSTRONG CEILINGS	ULTIMA HIGH NRC	WHITE	1942	SQUARE LAY-IN 15/16
ACT-2	ARMSTRONG CEILINGS	CLEAN ROOM VL	WHITE	868	SQUARE LAY-IN 15/16
COUNTERTOPS					
EPX-1	DURCON	EPOXY RESIN	BLACK ONYX		SCIENCE CLASSROOMS
SOS-1	WILSONART	SOLID SURFACE	YUKON RIVERSTONE	9196RS	
ENTRANCE FLOOR MATS AND FRAMES					
REM-1	PAWLING CORPORATION	RG-300 DRAIN WELL	1 BLACK	RG-300-AA	
GLAZING					
GL-2-1	SBG	COLOR PVB INTERLAYERS	GRAY	--	LOBBY
GL-2-2	SBG	COLOR PVB INTERLAYERS	BLUE	--	LOBBY
MANUFACTURED PLASTIC LAMINATE CASEWORK					
PLAM-1	WILSONART	STANDARD LAMINATE	FUSION MAPLE	7909-60	
PLAM-2	WILSONART	PREMIUM LAMINATE	HANDSPUN DOVE	5034-38	
PLAM-3	FORMICA	MARKERBOARD	GRAY	M7927	CULINARY
PAINING AND COATING					
PNT-1	SHERWIN WILLIAMS		EXTRA WHITE	SW 7006	FIELD COLOR
PNT-2	SHERWIN WILLIAMS		HONEY BEES	SW 9018	ACCENT
PNT-3	SHERWIN WILLIAMS		INDIGO BATH	SW 7602	ACCENT
PNT-4	SHERWIN WILLIAMS		MONORAL SILVER	SW 7663	DOOR FRAMES, ACCENT
PNT-5	SHERWIN WILLIAMS		EXTRA WHITE	SW 7006	CEILING
RESILIENT ATHLETIC FLOORINGS					
RAF-1	TARKETT SPORTS	DROPTILE	SKY BLUE	DZ103	
RAF-2	TARKETT SPORTS	DROPTILE	DARK BLUE	083	
RESILIENT FLOORING					
LVT-1	INTERFACE	STUDIO SET 4.5MM	PEWTER	A00702	
LVT-2	INTERFACE	STUDIO SET 4.5MM	SILVERLIGHT	A00701	
LVT-3	INTERFACE	STUDIO SET 4.5MM	SLATE	A00713	
RB-1	JOHNSONITE	NEUTRALS	COLONIAL GREY CG	TA5	
RESINOUS MATRIX TERRAZZO FLOORING					
EPX-1	SEE SPECIFICATIONS	EPOXY TERRAZZO	--	--	
SOUND-ABSORBING WALL AND CEILING UNITS					
AWP-1	ALPHASORB	PREMIUM ACOUSTIC FELT	STEEL	11	
AWP-2	ALPHASORB	PREMIUM ACOUSTIC FELT	DEEP BLUE	09	
AWP-3	ALPHASORB	PREMIUM ACOUSTIC FELT	WHITE	07	
AWP-4	ALPHASORB	PREMIUM ACOUSTIC FELT	YELLOW	22	
TILE CARPETING					
CPT-1	INTERFACE	SR899	MIDNIGHT	104922	LOBBY
TILING					
GWT-1	DALTILE	COLOR WHEEL LINEAR	ARCTIC WHITE	0190	4x12
GWT-2	DALTILE	COLOR WHEEL LINEAR	DESERT GRAY	X114	2 x 8
PRT-1	DALTILE	FABRIC ART	MODERN LINEAR MEDIUM GRAY	ML53	12 X 24
PRT-2	DALTILE	FABRIC ART	MODERN LINEAR WHITE	ML60	12 X 24
PRT-3	DALTILE	FABRIC ART	MODERN LINEAR MIDNIGHT BLUE	ML65	12 X 24
WOOD STRIP AND PLANK FLOORING					
WDF-1	SEE SPECIFICATIONS	WOOD STAGE FLOOR - TYPE 1	MAPLE	--	
WDF-2	SEE SPECIFICATIONS	WOOD STAGE FLOOR - TYPE 2	--	--	
WDF-3	SEE SPECIFICATIONS	WOOD GYM FLOOR	MAPLE	--	

ROOM FINISH SCHEDULE

No.	NAME	FLOORS		BASE	WALLS		CEILINGS		REMARKS
		FLOOR FINISH	FLOOR ACCENT		WALL FINISH	WALL ACCENT	CEILING FINISH		
100	VOCAL MUSIC	LVT-1	LVT-2, LVT-3	RB-1	PNT-1			ACT-1	
100A	PRACTICE ROOM	LVT-1		RB-1	PNT-1		AWC-2	ACT-1	
100B	STORAGE	LVT-1		RB-1	PNT-1			ACT-1	
106	BAND ROOM	LVT-1	LVT-2, LVT-3	RB-1	PNT-1		AWC-1, PNT-3, PNT-4	ACT-1, PNT-5	
106A	STORAGE	LVT-1		RB-1	PNT-1			ACT-1	
106B	STORAGE	LVT-1		RB-1	PNT-1			ACT-1	
106C	STORAGE	LVT-1		RB-1	PNT-1			ACT-1	
106D	PRACTICE ROOM	LVT-1		RB-1	PNT-1			ACT-1	
106E	PRACTICE ROOM	LVT-1		RB-1	PNT-1			ACT-1	
108A	TOILET	PRT-1			PRT-2, PRT-3			ACT-2	
108B	TOILET	PRT-1			PRT-2, PRT-3			ACT-2	
108C	TOILET	PRT-1			PRT-2, PRT-3			ACT-2	
108D	TOILET	PRT-1			PRT-2, PRT-3			ACT-2	
112D	STAGE	WDF-1, WDF-2		WB-1					
112E	STORAGE	WDF-2		WB-1					
114	MECH								
122	GUIDANCE	LVT-1		RB-1					
122A	OFFICE	LVT-1		RB-1					
122B	OFFICE	LVT-1		RB-1					
122C	CONFERENCE	LVT-1		RB-1					
300	PHYSICS	LVT-1	LVT-2, LVT-3	RB-1	PNT-1		PNT-3, PNT-4	ACT-1	
300A	PREP	LVT-1		RB-1	PNT-1			ACT-1, PNT-5	
301	LIVING ENVIRONMENT	LVT-1	LVT-2, LVT-3	RB-1	PNT-1		PNT-3, PNT-4	ACT-1	
301A	PREP	LVT-1		RB-1	PNT-1			ACT-1, PNT-5	
302	CHEMISTRY	LVT-1	LVT-2, LVT-3	RB-1	PNT-1		PNT-3, PNT-4	ACT-1	
303	BIOLOGY	LVT-1	LVT-2, LVT-3	RB-1	PNT-1		PNT-3, PNT-4	ACT-1	
304	CLASSROOM	LVT-1	LVT-2, LVT-3	RB-1	PNT-1			ACT-1	
305	EARTH SCIENCE	LVT-1	LVT-2, LVT-3	RB-1	PNT-1		PNT-3, PNT-4	ACT-1	
305A	PREP	LVT-1		RB-1	PNT-1			ACT-1, PNT-5	
306	CLASSROOM	LVT-1	LVT-2, LVT-3	RB-1	PNT-1			ACT-1	
307	EARTH SCIENCE	LVT-1	LVT-2, LVT-3	RB-1	PNT-1		PNT-3, PNT-4	ACT-1	
309	CLASSROOM	LVT-1	LVT-2, LVT-3	RB-1	PNT-1			ACT-1	
429	CORRIDOR	LVT-1		RB-1	PNT-1			ACT-1	
430	LOBBY	CPT-1, PRT-1	PRT-2		PRT-3		PRT-1	ACT-1, LMC-1	
431	VESTIBULE	CPT-1, REM-1						ACT-1	
432	VESTIBULE	CPT-1, REM-1						ACT-1	
504	CULINARY	LVT-1	LVT-2, LVT-3	RB-1	PNT-1		GWT-2, PNT-3	ACT-2, PNT-5	
506	SEWING	LVT-1	LVT-2, LVT-3	RB-1	PNT-1		PNT-3, PNT-4	ACT-1, PNT-5	
508	8TH GRADE SCIENCE	LVT-1	LVT-2, LVT-3	RB-1	PNT-1		PNT-3, PNT-4	ACT-1	
600	CLASSROOM	LVT-1	LVT-2, LVT-3	RB-1	PNT-1			ACT-1	
602	STORAGE	LVT-1		RB-1	PNT-1			ACT-1	
608	ART ROOM	LVT-1	LVT-2, LVT-3	RB-1	PNT-1		GWT-2, PNT-4	ACT-1, PNT-5	
610	DISTANCE LEARNING	LVT-1		RB-1	PNT-1		AWC-1, AWC-2, LVT-2	ACT-1, LMC-1	
610A	STORAGE	LVT-4		RB-1	PNT-1			ACT-1	
610B	STORAGE	LVT-4		RB-1	PNT-1			ACT-1	
610D	STORAGE	LVT-6		RB-1	PNT-1			ACT-1	
716	GYMNASIUM	WAF-1		RB-2					
905	MENS RESTROOM	PRT-1			PRT-2, PRT-3			ACT-2, PNT-5	
905A	STORAGE	EPX-PT			PNT-1				
905B	TOILET	PRT-1			PRT-2, PRT-3			ACT-2	
905C	TOILET	PRT-1			PRT-2, PRT-3			ACT-2	
905D	LOCKER/CHANGING	PRT-1			PRT-2, PRT-3			ACT-1	
905E	GENDER NEUTRAL TOILET/SHOWER	PRT-1			PRT-2, PRT-3			ACT-2	
905F	STORAGE	EPX-T		RB-1	PNT-1				
905G	PASSAGE	EPX-T		EPX-T	PNT-1			ACT-1	
907A	AEROBICS	RAF-2							
907B	WEIGHT TRAINING	RAF-1							
909	WOMENS RESTROOM	PRT-1			PRT-2, PRT-3			ACT-2, PNT-5	
909A	TOILET	PRT-1			PRT-2, PRT-3			ACT-2	
909B	TOILET	PRT-1			PRT-2, PRT-3			ACT-2	
909C	LOCKER/CHANGING	PRT-1			PRT-2, PRT-3			ACT-1	
909D	GENDER NEUTRAL TOILET/SHOWER	PRT-1			PRT-2, PRT-3			ACT-2	
909E	PASSAGE	EPX-T		EPX-T	PNT-1			ACT-1	
909F	STORAGE	EPX-PT		RB-1	PNT-1				



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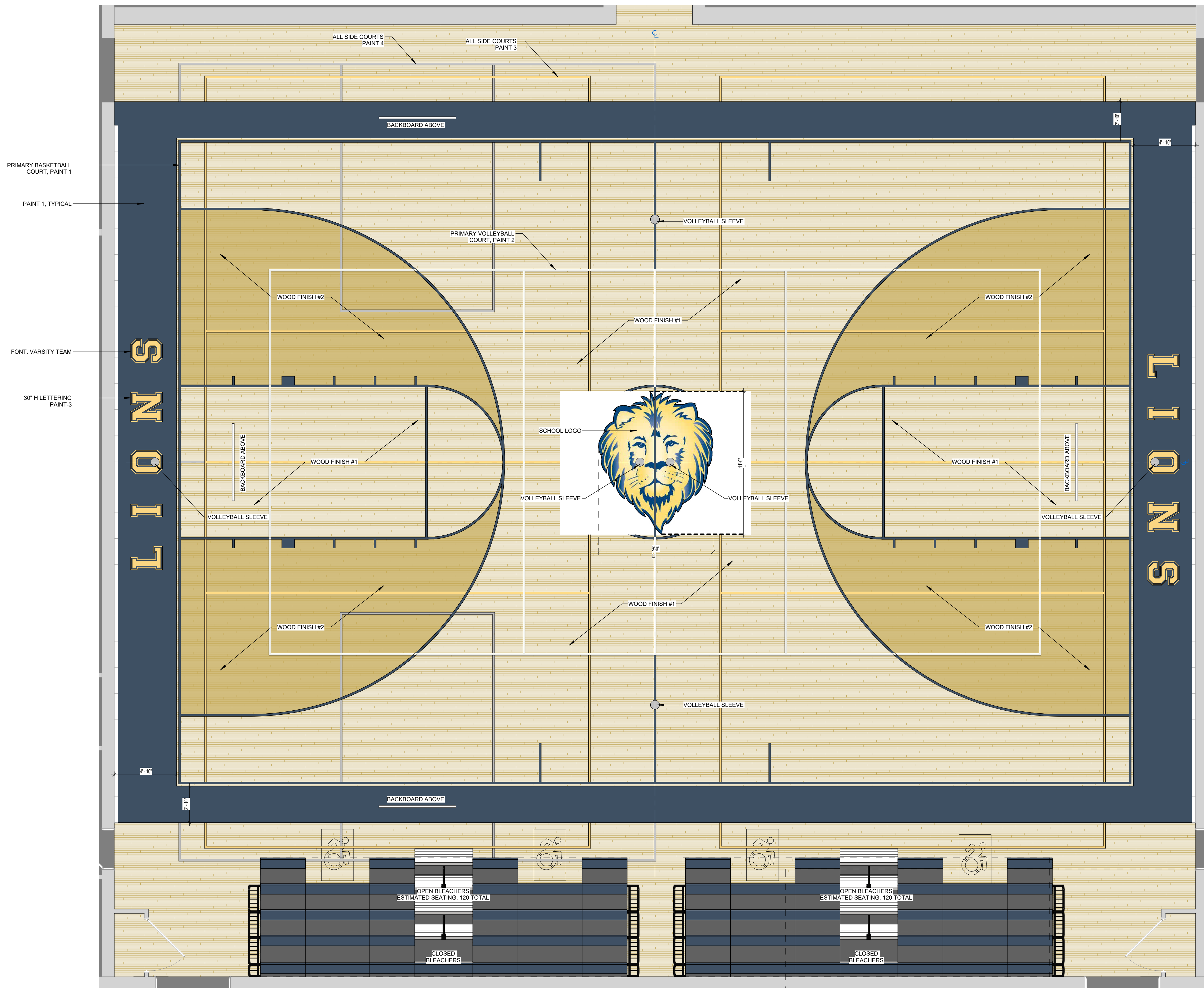
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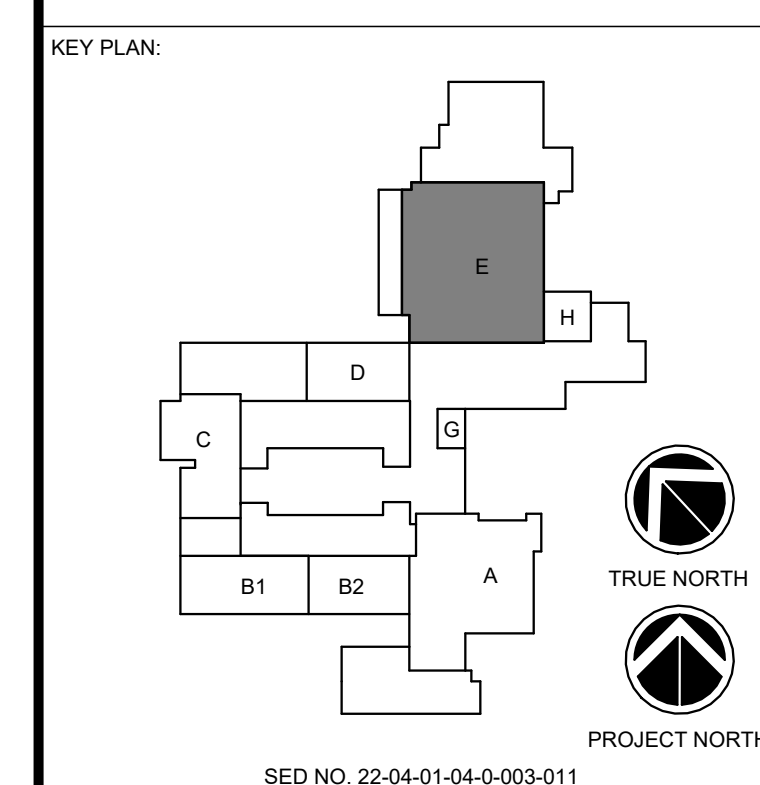
FINISH AND MATERIAL SCHEDULE

BUILDING NUMBER HS	SHEET NUMBER A904 BID
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1 GYMNASIUM FINISH PLAN OPTION 1
SCALE: 1/4" = 1'-0"



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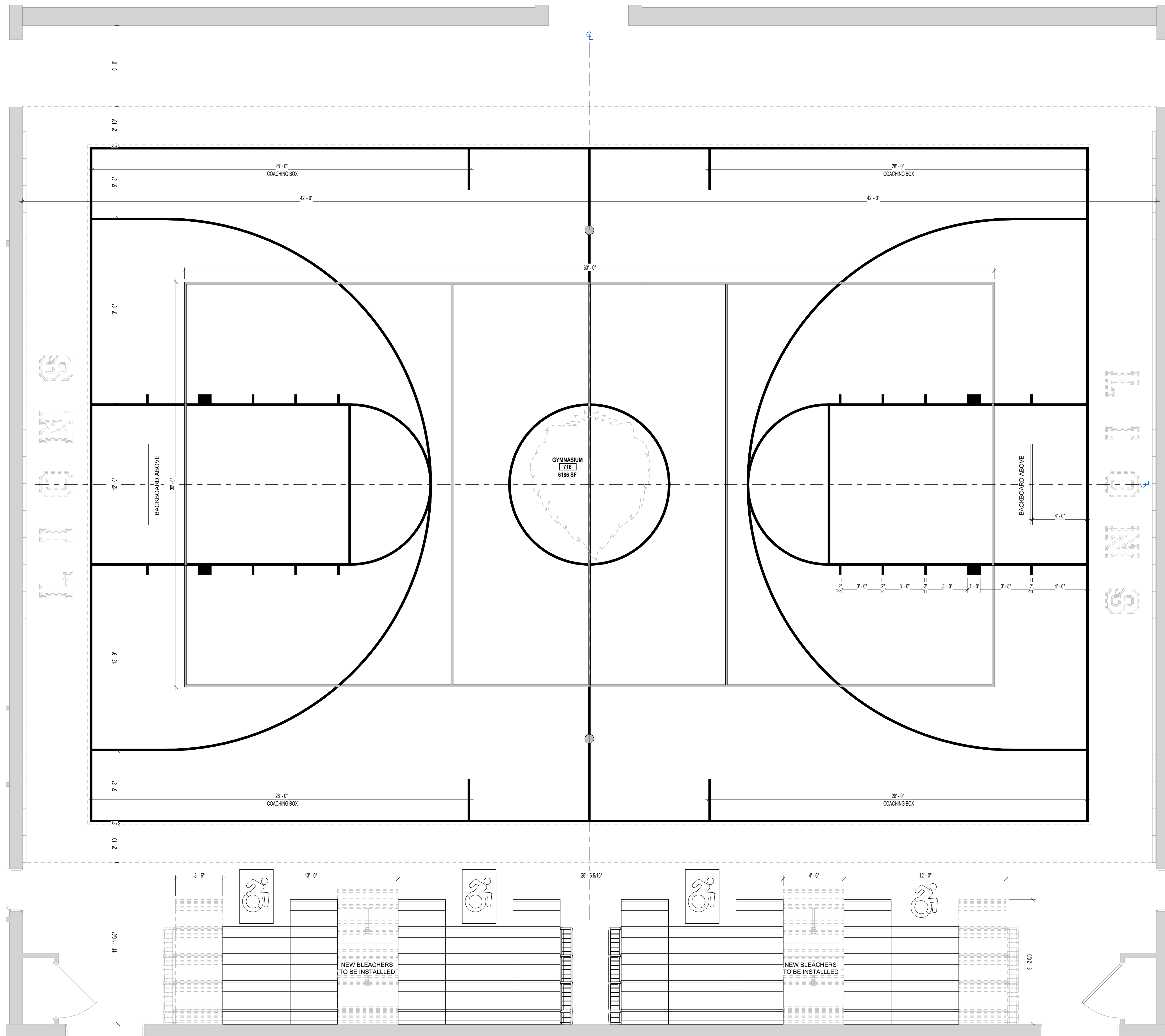
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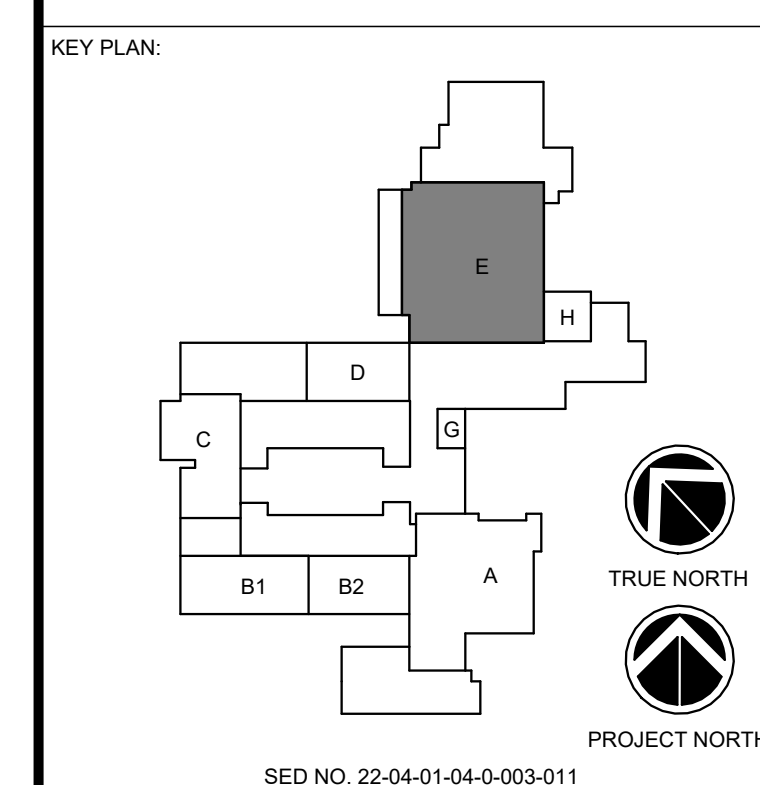
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GYMNASIUM FINISH PLAN

BUILDING NUMBER HS	SHEET NUMBER A905 BID
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1 GYMNASIUM LINEWORK PLAN
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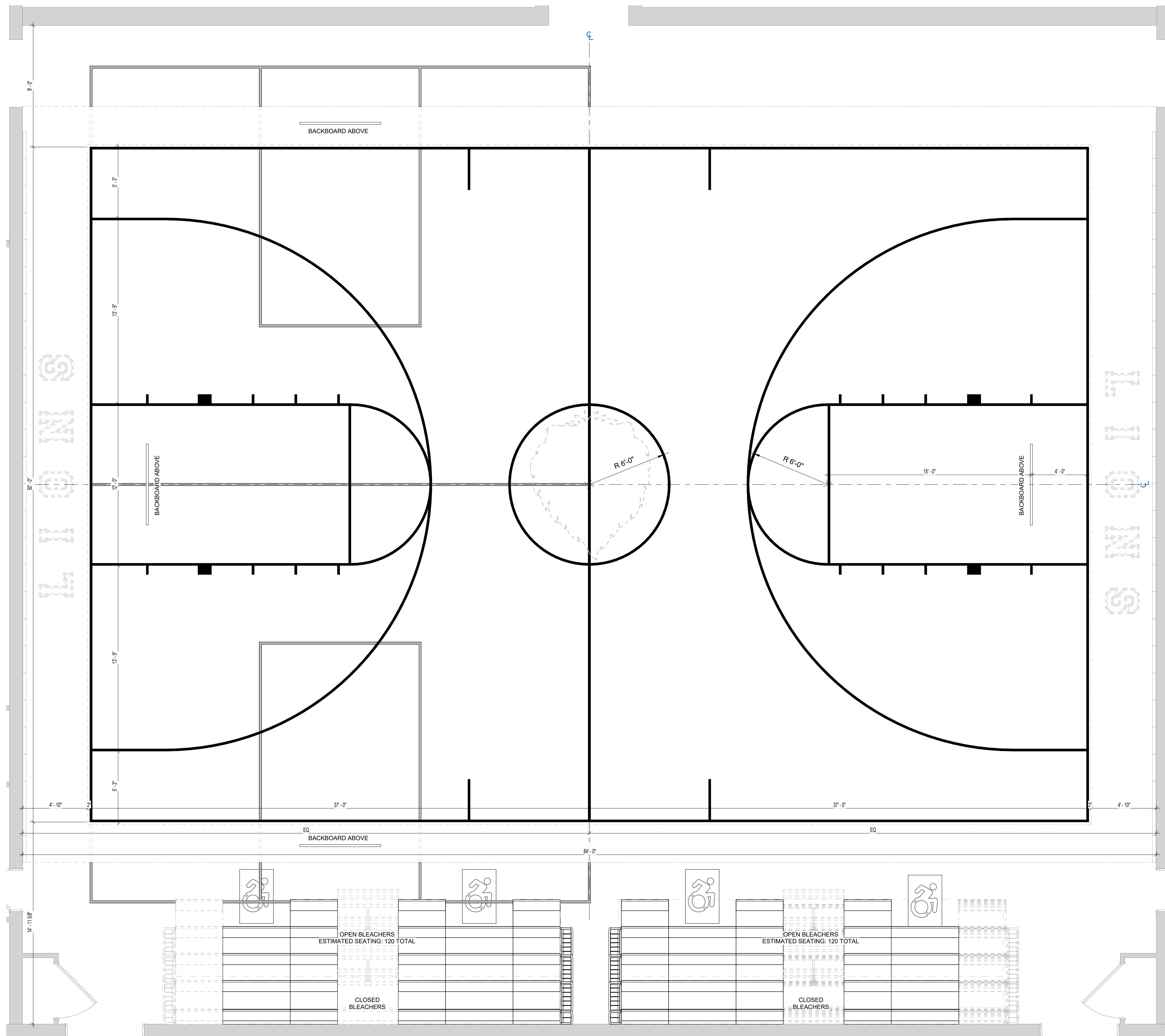
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GYMNASIUM LINEWORK PLAN

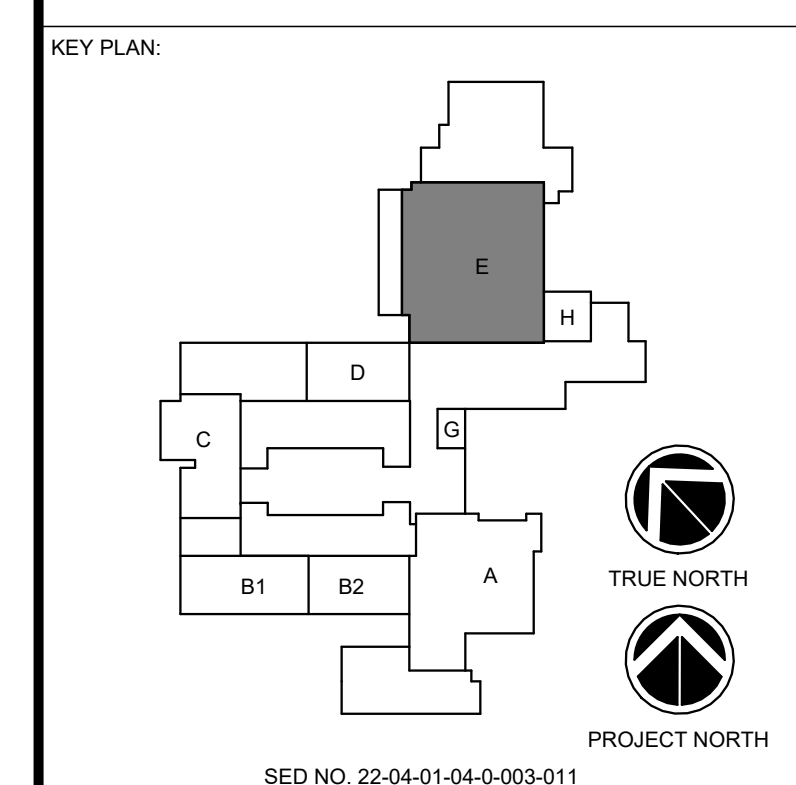
BUILDING NUMBER HS	SHEET NUMBER A906 BID
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1 GYMNASIUM BASKETBALL COURTS
SCALE: 1/4" = 1'-0"



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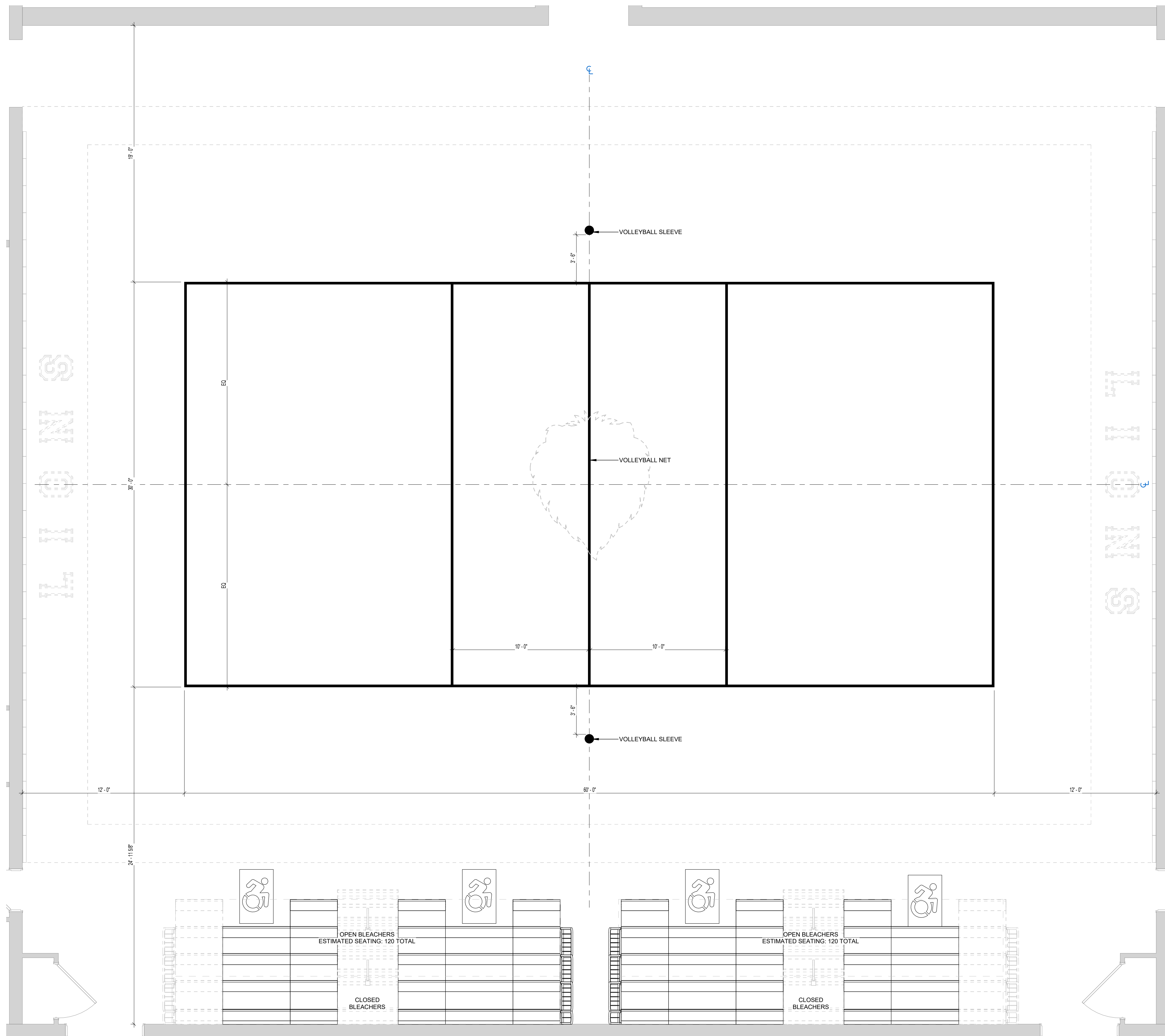
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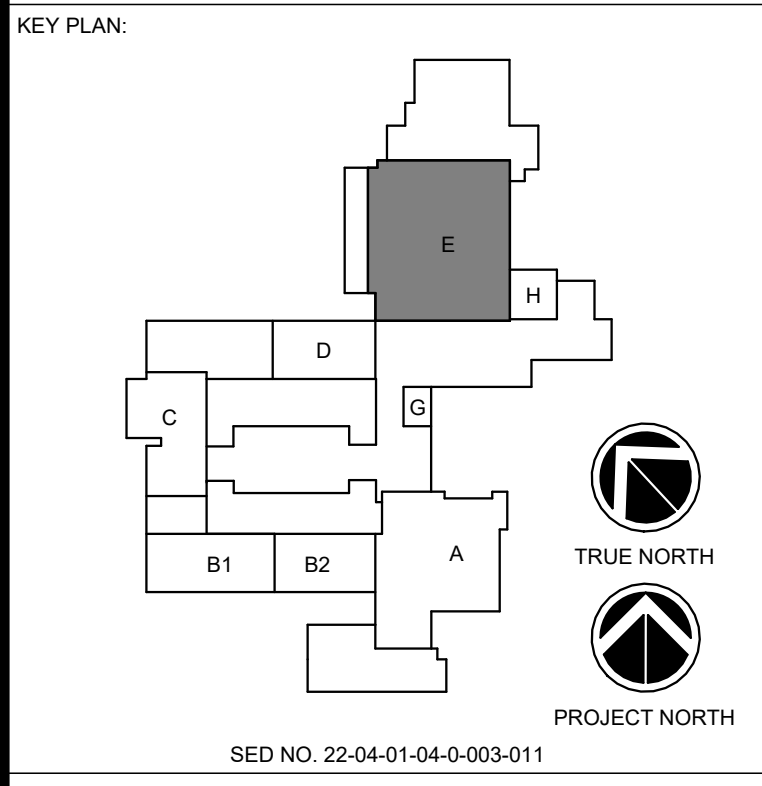
GYMNASIUM BASKETBALL COURTS

BUILDING NUMBER HS	SHEET NUMBER A907 BID
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1 GYMNASIUM MAIN VOLLEYBALL COURT
SCALE: 1/4" = 1'-0"



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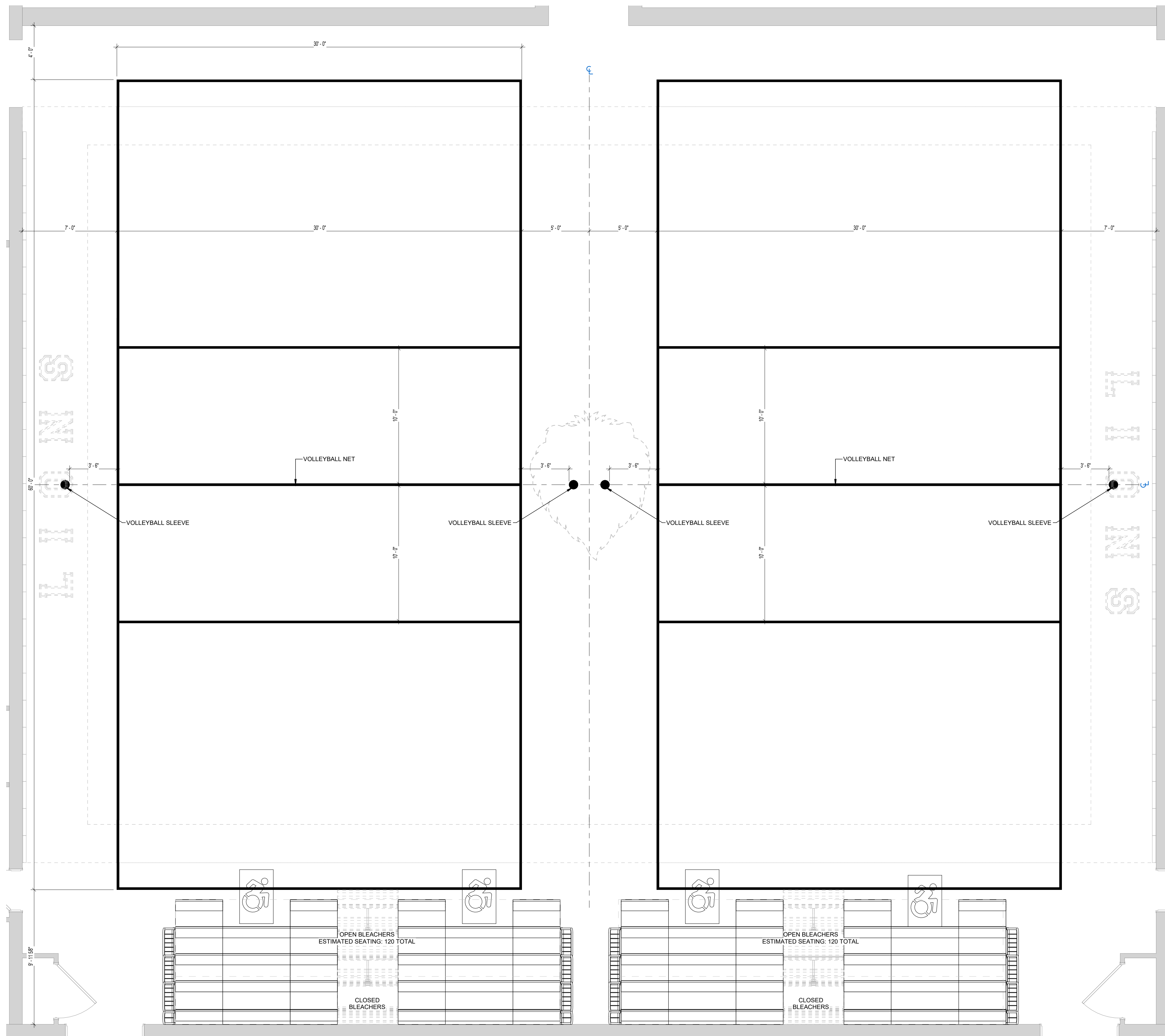
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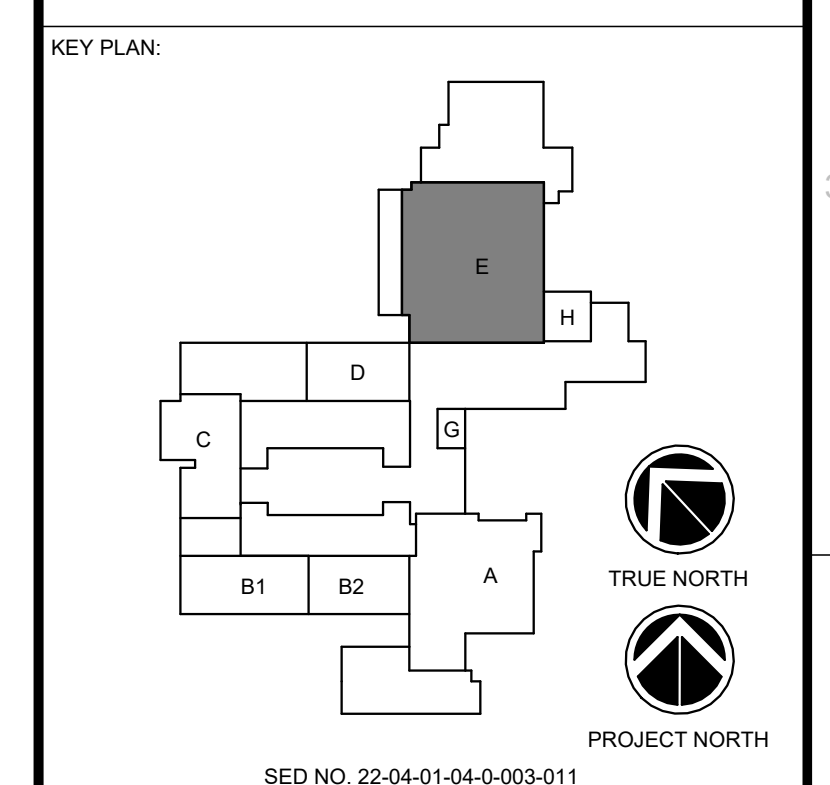
GYMNASIUM MAIN VOLLEYBALL COURT

BUILDING NUMBER HS	SHEET NUMBER A908 BID
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1 GYMNASIUM VOLLEYBALL SIDE COURTS
SCALE: 1/4" = 1'-0"



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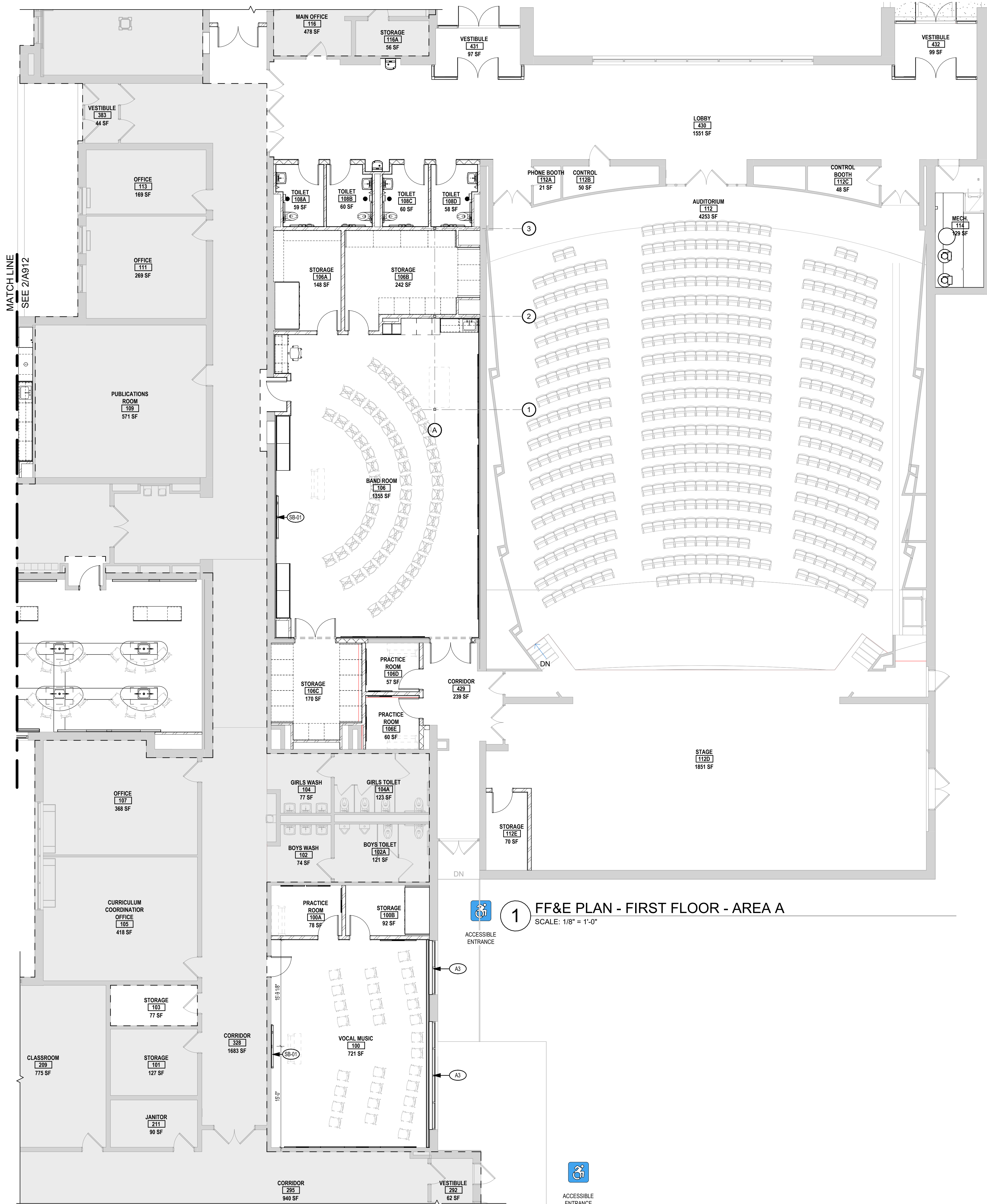
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CHECKED BY MLC	DATE 12/16/2024

GYMNASIUM VOLLEYBALL SIDECOURTS

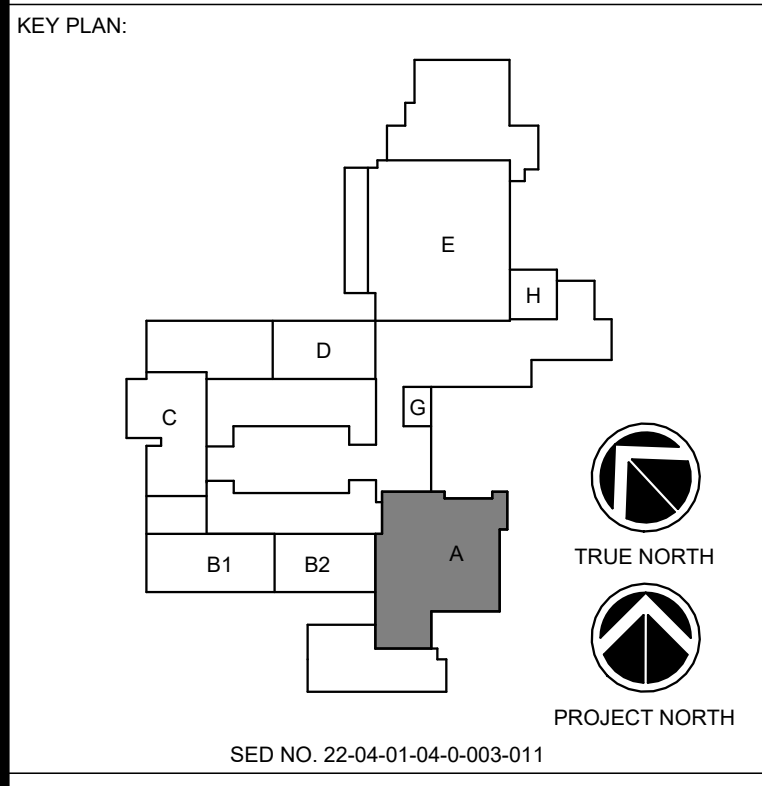
BUILDING NUMBER HS	SHEET NUMBER A909 BID
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EQUIPMENT SCHEDULE							
TAG	DESCRIPTION	MANUFACTURE	MODEL	CONTRACTOR SUPPLIED / CONTRACTOR INSTALLED	OWNER SUPPLIED / CONTRACTOR INSTALLED	OWNER SUPPLIED / OWNER INSTALLED	NOTES
RF-01	UNDER-COUNTER REFRIGERATOR			•			
RF-02	FULL SIZE REFRIGERATOR (RESIDENTIAL)			•			
DW-01	UNDER-COUNTER DISHWASHER			•			
WS-01	WASHING MACHINE			•			
DR-01	DRYER			•			
BL-01	BLEACHER			•			
ST-01	STOVE			•			
MW-01	MICROWAVE			•			
SB-01	SMARTBOARD					•	
VH-01	VENT HOOD (STOVE)			•			
VH-02	VENT HOOD (SCIENCE)			•			
MB-01	MARKERBOARD			•			
MB-02	MARKERBOARD			•			



1 FF&E PLAN - FIRST FLOOR - AREA A
SCALE: 1/8" = 1'-0"

KEYNOTES	
A3	INSTALL NEW WINDOW TREATMENT.
SB-01	SMARTBOARD



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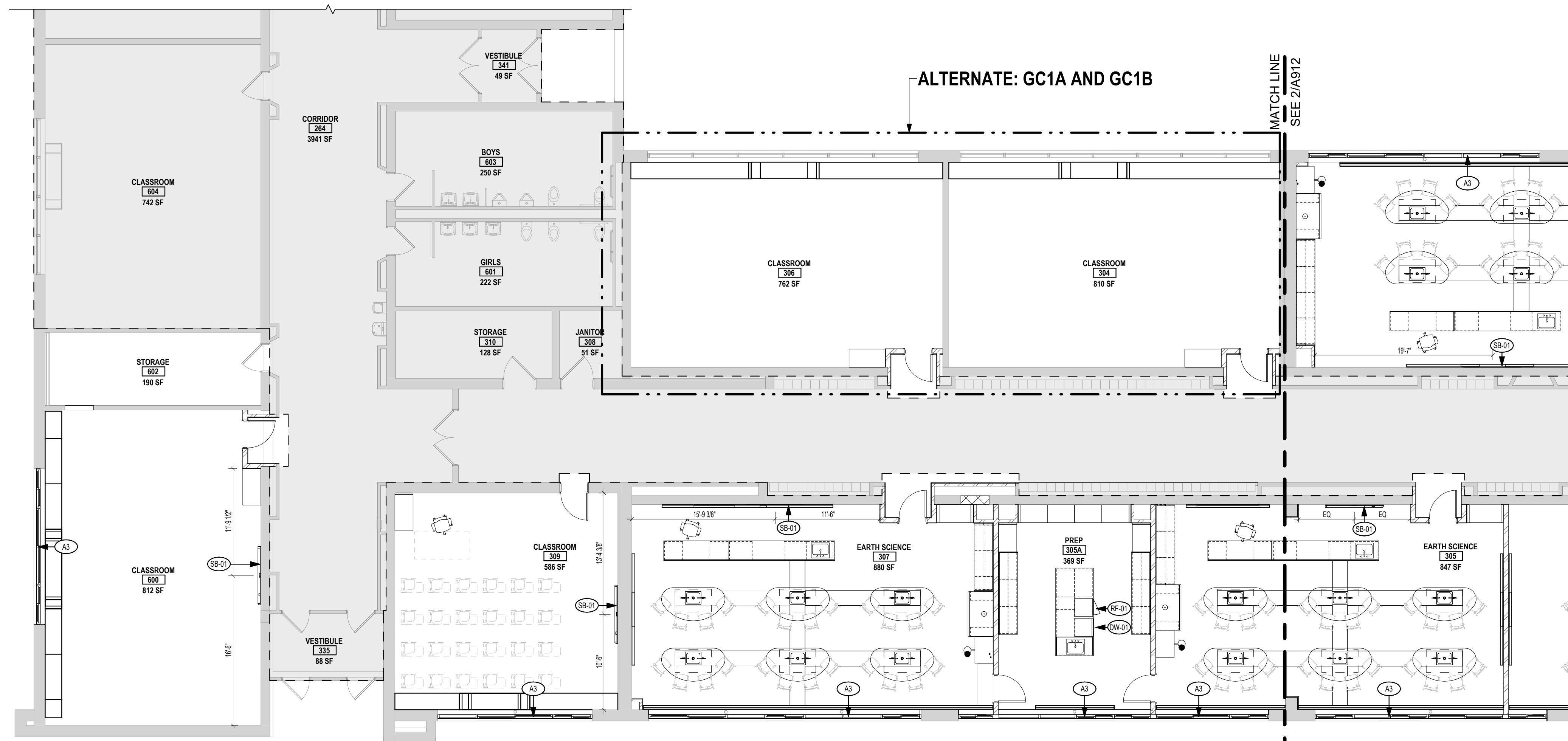
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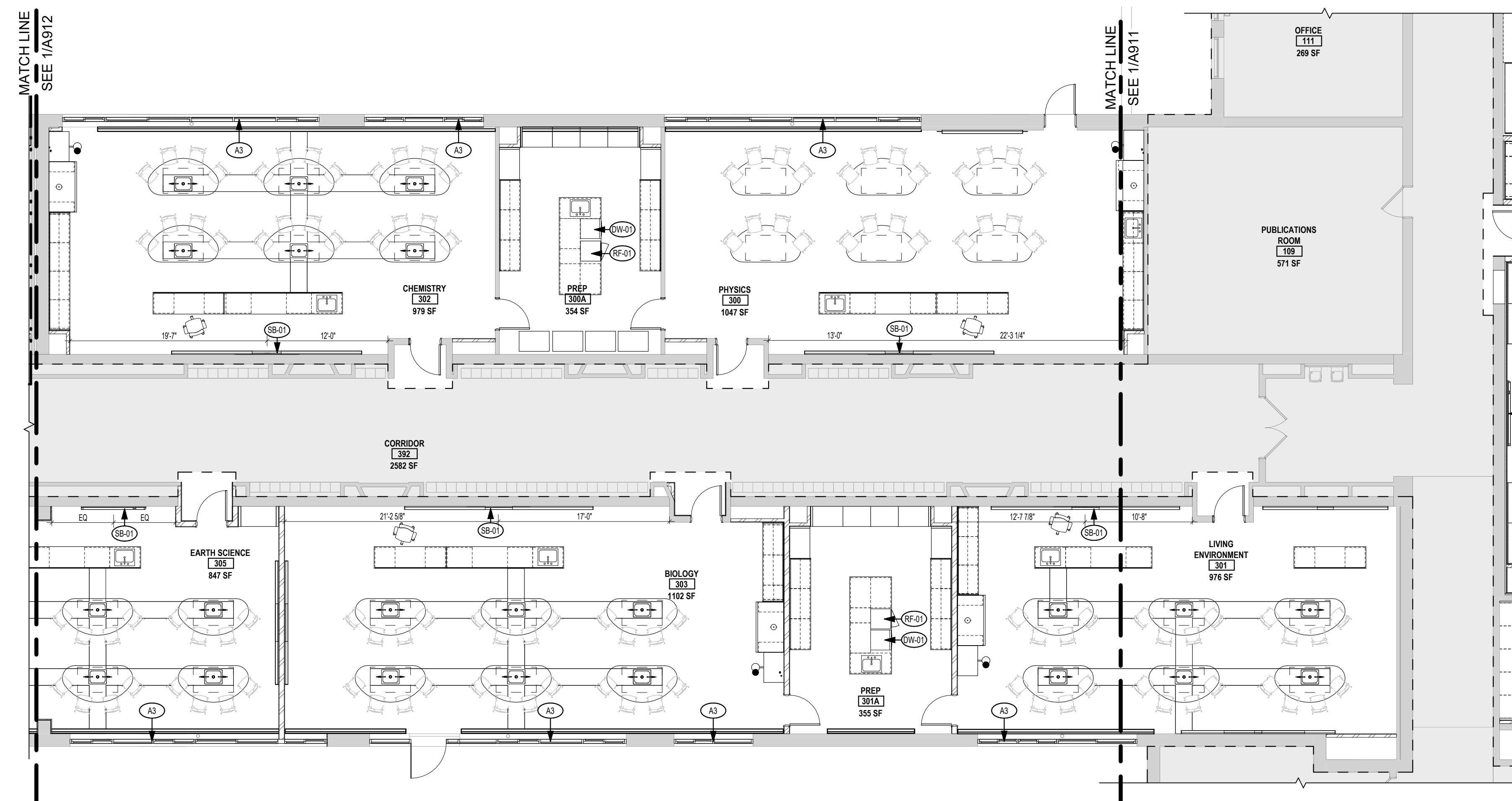
FIXTURE FURNITURE AND EQUIPMENT PLAN - AREA A

BUILDING NUMBER	SHEET NUMBER
HS	A911
	BID

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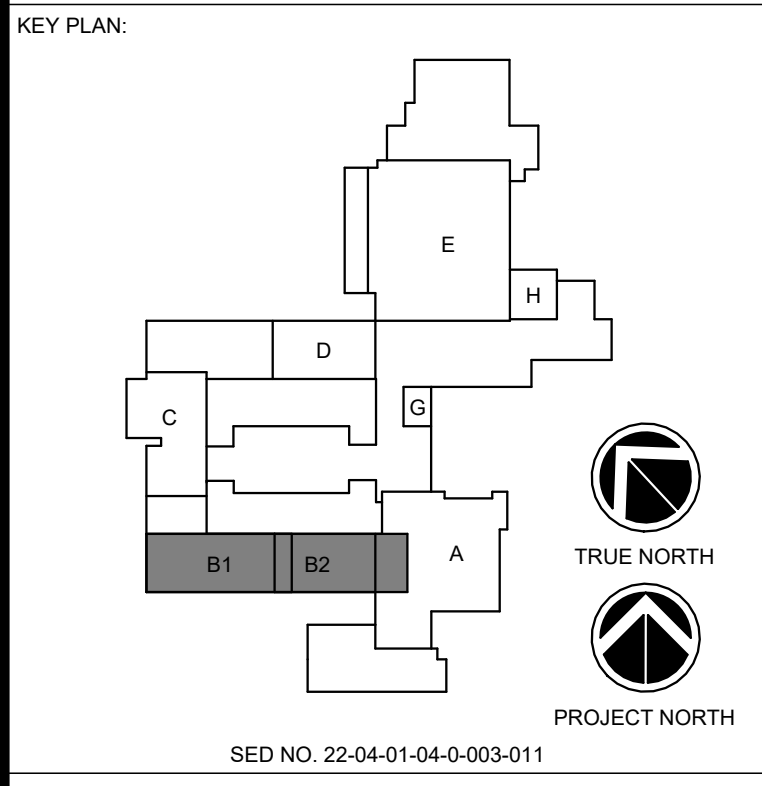


1 FF&E PLAN - FIRST FLOOR - AREA B1
SCALE: 1/8" = 1'-0"



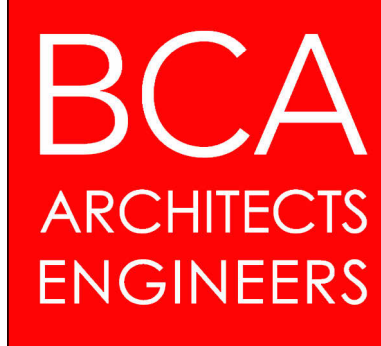
2 FF&E PLAN - FIRST FLOOR - AREA B2
SCALE: 1/8" = 1'-0"

KEYNOTES	
AS	INSTALL NEW WINDOW TREATMENT.
DW-01	UNDER-COUNTER DISHWASHER
RF-01	UNDER-COUNTER REFRIGERATOR
SB-01	SMARTBOARD



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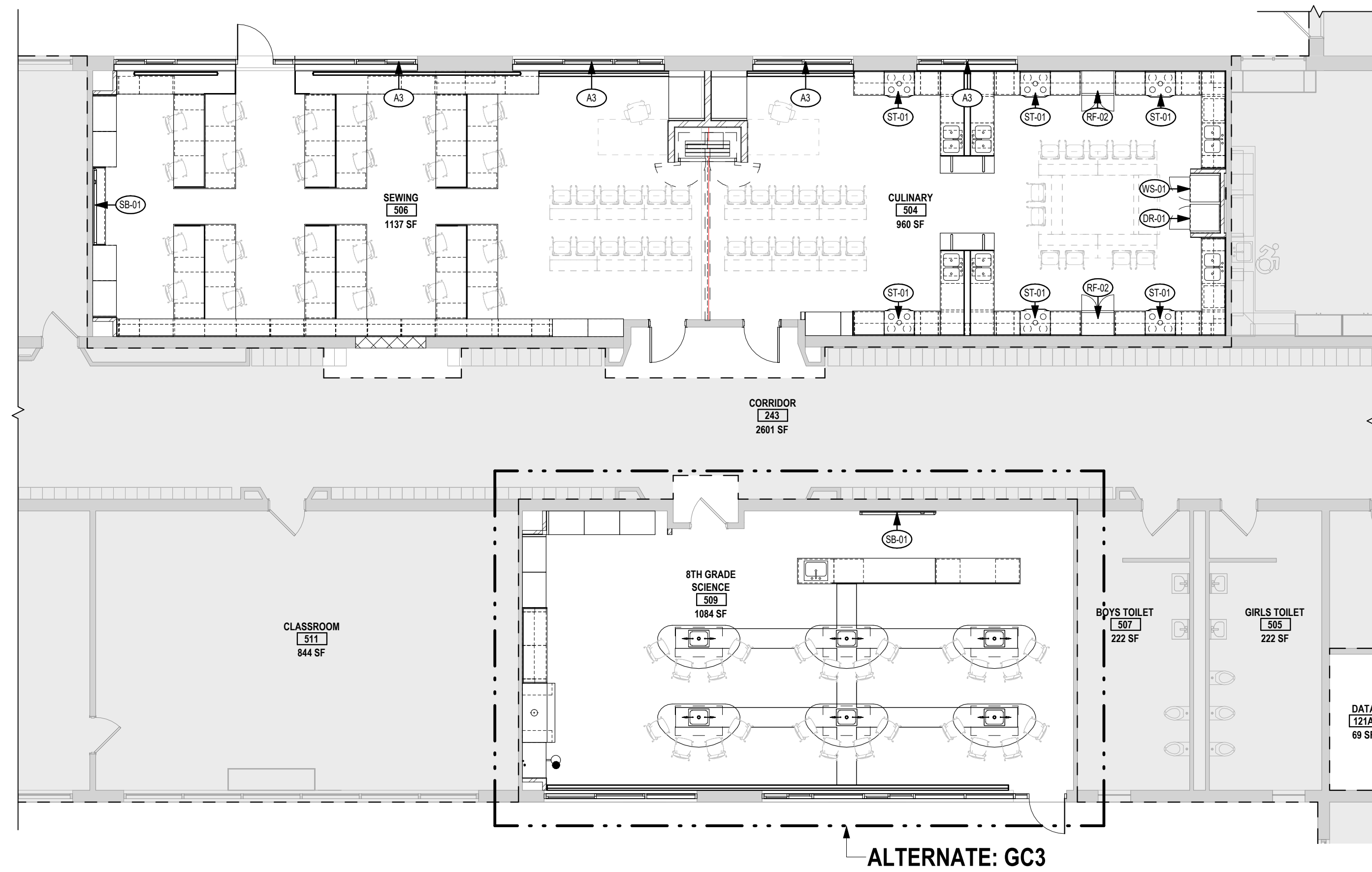
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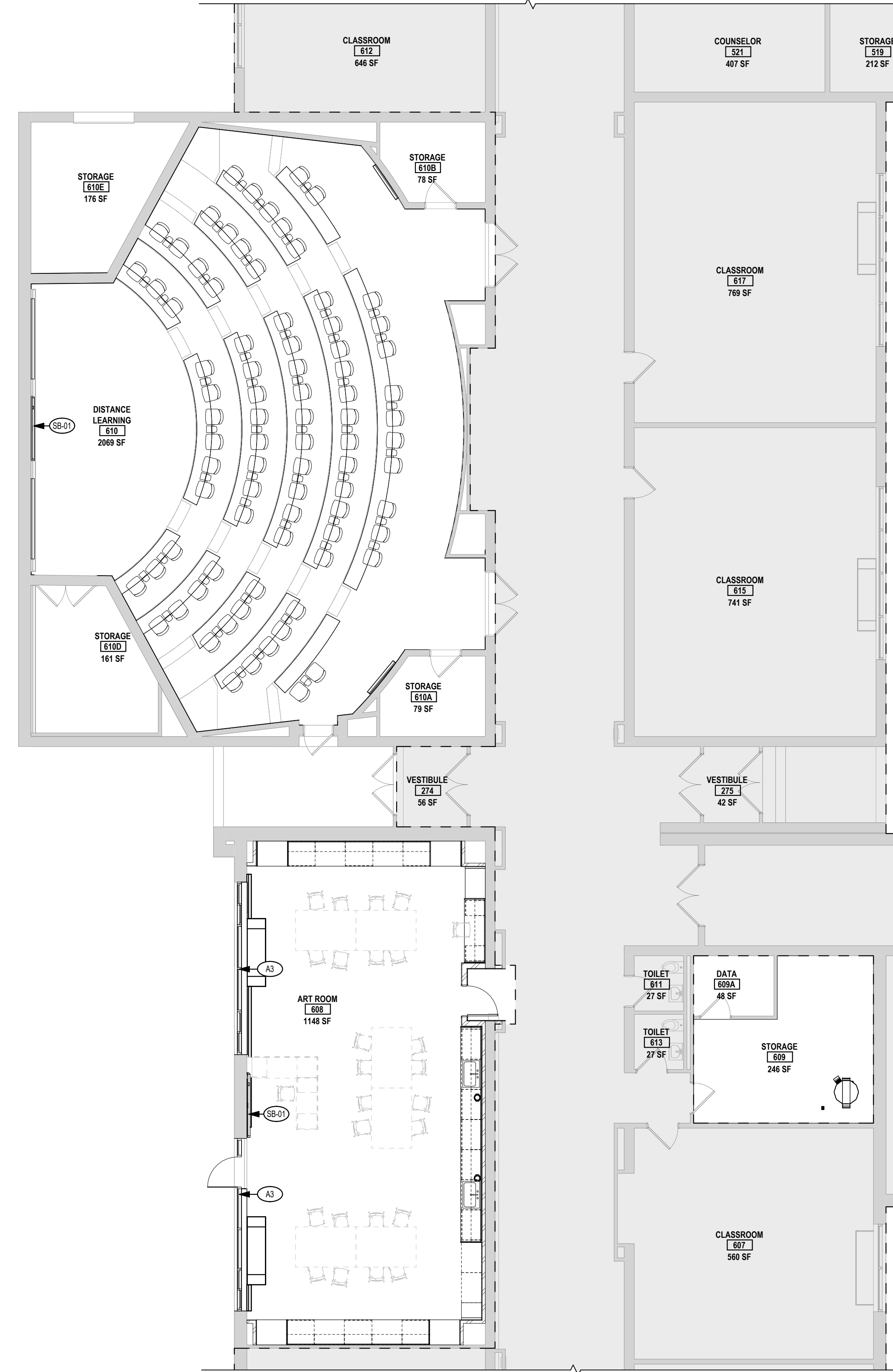
FIXTURE FURNITURE AND EQUIPMENT PLAN - AREA B1 AND B2

BUILDING NUMBER HS	SHEET NUMBER A912 BID
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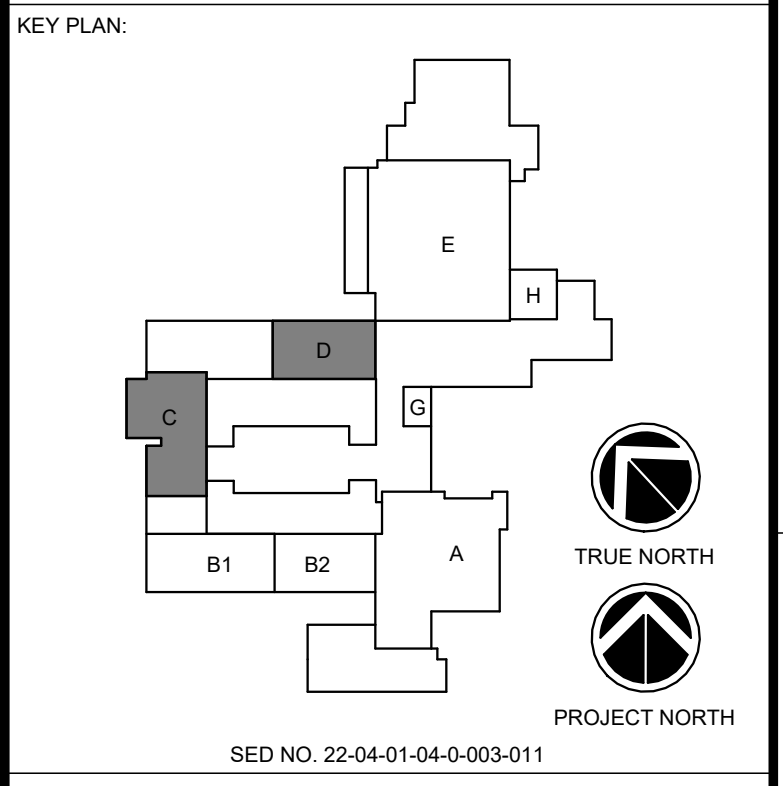


2 FF&E PLAN - FIRST FLOOR - AREA D
SCALE: 1/8" = 1'-0"



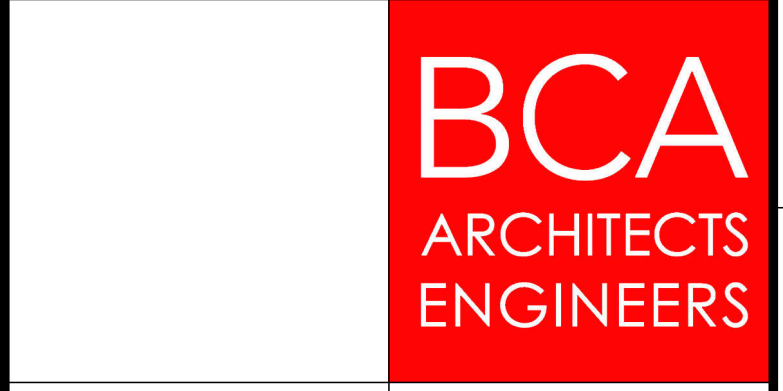
1 FF&E PLAN - FIRST FLOOR - AREA C
SCALE: 1/8" = 1'-0"

KEYNOTES	
A3	INSTALL NEW WINDOW TREATMENT.
DR-01	DRYER
RF-02	FULL SIZE REFRIGERATOR (RESIDENTIAL)
SB-01	SMARTBOARD
ST-01	STOVE
WS-01	WASHING MACHINE



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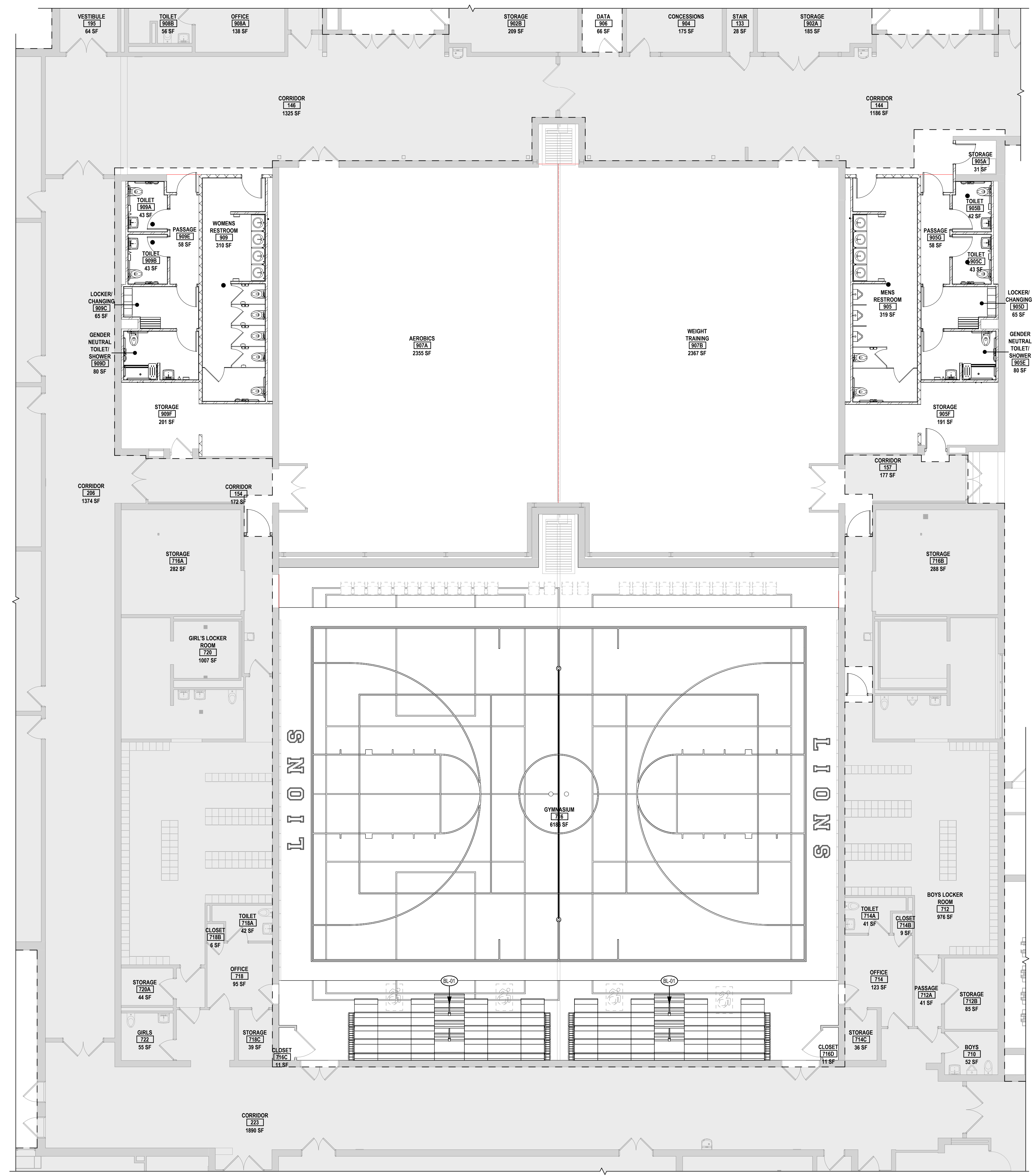
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FIXTURE FURNITURE AND EQUIPMENT PLAN - AREA C AND D
BUILDING NUMBER: HS SHEET NUMBER: A913
BID

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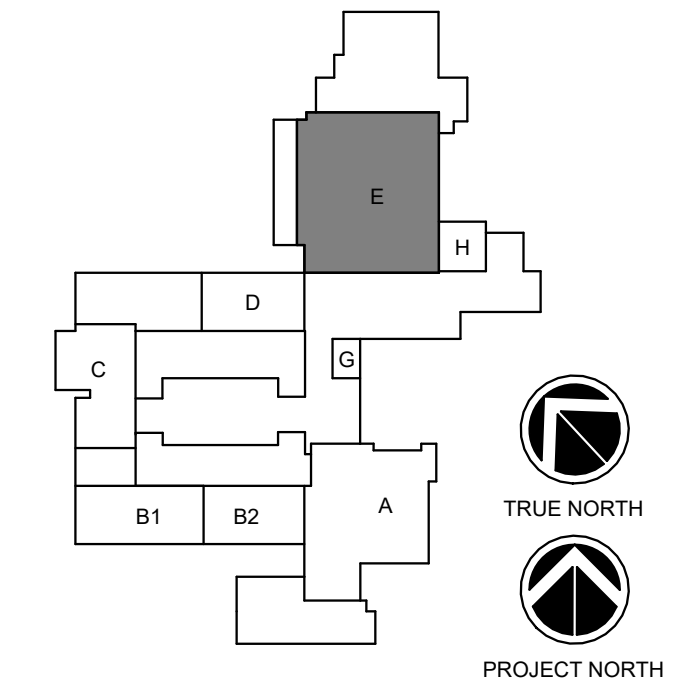


1 FF&E PLAN - FIRST FLOOR - AREA E
SCALE: 1/8" = 1'-0"

KEYNOTES

BL-01 BLEACHER

KEY PLAN:



SED NO. 22-04-01-04-0-003-011

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**GENERAL BROWN CSD
JUNIOR SENIOR HIGH SCHOOL
17643 CEMETERY RD
DEXTER - JEFFERSON - NEW YORK**

REV	DATE	DESCRIPTION

DRAWN BY: MJK/ALS PROJECT NUMBER: 2023-105
CHECKED BY: MLC DATE: 12/16/2024
FIXTURE FURNITURE AND EQUIPMENT PLAN - AREA E
BUILDING NUMBER: HS SHEET NUMBER: A914
BID

GENERAL MECHANICAL SYMBOLS

	REVISION NUMBER - SHOWN ON PLANS
	POINT WHERE NEW CONNECTS TO EXISTING
	POINT WHERE DEMOLITION CONNECTS TO EXISTING
	NUMBER OF DETAIL ON SHEET
	NUMBER OF SHEET WHERE DETAIL APPEARS
	KEYNOTE
	DEMOLITION KEYNOTE
	ROOM NAME AND NUMBER
	ITEM TO BE DEMOLISHED
	EXISTING ITEM
	NEW ITEM

ABBREVIATIONS

Ø	ROUND	LVR	LOUVER
ABV	ABOVE	LWT	LEAVING WATER TEMPERATURE
AC	AIR CONDITIONING	M/A	MIXED AIR
AD	AREA DRAIN	MAX	MAXIMUM
ADD	ADDENDUM	MBH	ONE THOUSAND BTU PER HOUR
AFF	ABOVE FINISHED FLOOR	MF	ONE THOUSAND CUBIC FEET
AFUE	ANNUAL FUEL UTILIZATION EFFICIENCY	MD	MOTORIZED DAMPER
ALT	ALTERNATE	MECH	MECHANICAL
AP	ACCESS PANEL	MFR	MANUFACTURER
ARCH	ARCHITECT/ARCHITECTURAL	MN	MINIMUM
BFF	BELOW FINISHED FLOOR	MISC	MISCELLANEOUS
BLW	BELOW	MTR	MOTOR
BTU	BRITISH THERMAL UNITS	MUA	MAKE-UP AIR
BTUH	BRITISH THERMAL UNITS PER HOUR	NC	NOISE CRITERIA
CAP	CAPACITY	NC	NORMALLY CLOSED
CB	CATCH BASIN	NC	NOT IN CONTRACT
CFM	CUBIC FEET PER MINUTE	NO	NUMBER
CLG	CEILING	NO	NORMALLY OPEN
CO	CLEAN OUT	NTS	NOT TO SCALE
CW	COLD WATER	O	OXYGEN
DN	DOWN	O/A	OUTSIDE AIR
DB	DRY BULB	ORD	OVERFLOW ROOF DRAIN
DA	DIAMETER	PD	PRESSURE DROP
DI	DISTILLED WATER	PV	POST INDICATOR VALVE
EA	EACH	PLBG	PLUMBING
EAT	ENTERING AIR TEMPERATURE	PRV	PRESSURE REDUCING VALVE
ELEC	ELECTRICAL	PSI	POUNDS PER SQUARE INCH
EQUIP	EQUIPMENT	PSIG	POUNDS PER SQUARE INCH GAUGE
EW	ELECTRIC WATER COOLER	PWR	POWER
EWT	ENTERING WATER TEMPERATURE	R	DUCT RISER
EJA	EXHAUST AIR	RIA	RETURN AIR
EXIST	EXISTING	RCP	RADIANT CEILING PANEL
F	DEGREES FAHRENHEIT	RD	ROOF DRAIN
FCD	FLOOR CLEAN OUT	REC	RECESSED
FD	FLOOR DRAIN	RED	REDUCER
FDC	FIRE DEPARTMENT CONNECTION	RH	RELATIVE HUMIDITY
FL	FLOOR	RLA	RELIEF AIR
FO	FUEL OIL	RM	ROOM
FOV	FUEL OIL VENT	RPM	REVOLUTIONS PER MINUTE
FOR	FUEL OIL RETURN	RW	RAIN WATER
FOS	FUEL OIL SUPPLY	SF	SQUARE FOOT
FS	FLOOR SINK	S/A	SUPPLY AIR
FT	FOOT/FEET	SAN	SANITARY
FTR	FIN TUBE RADIATION	SD	SQUARE DAMPER
GAL	GALLON	SM	SURFACE MOUNT
GF	GAS-FIRED	SP	STANDPIPE
GC	GENERAL CONTRACTOR	SP	STATIC PRESSURE
GPM	GALLONS PER MINUTE	STM	STEAM
GW	GREASE WASTE	T	THERMOSTAT
HB	HOSE BIB	TD	TEMPERATURE DROP
HP	HORSE POWER	TDR	TRENCH DRAIN
HTG	HEATING	TMP	TEMPERATURE
HTR	HEATER	TYP	TYPICAL
HW	HOT WATER	UG	UNDERGROUND
HYD	HYDRANT	VAC	VACUUM
ID	INDIRECT	V	VENT
IN	INCH	VAV	VARIABLE AIR VOLUME
INV	INVERT	VENT	VENTILATION
LB	POUND	VTR	VENT THROUGH ROOF
LBHR	POUNDS PER HOUR	W	WASTE
LAT	LEAVING AIR TEMPERATURE	WB	WET BULB
LP	LOW PRESSURE	WCO	WALL CLEAN OUT
LPG	LIQUEFIED PETROLEUM GAS	WH	WALL HYDRANT

EQUIPMENT ABBREVIATIONS

ACU	AIR CONDITIONING UNIT	ERV	ENERGY RECOVERY VENTILATOR
ACCU	AIR COOLING CONDENSING UNIT	ET	EXPANSION TANK
AHU	AIR HANDLING UNIT	EW	ELECTRIC WATER HEATER
AS	AIR SEPARATOR	E/S	EMERGENCY SHUTOFF
B	BOILER	FCU	FAN COIL UNIT
BP	BOILER PUMP	F	FIRE PUMP
BT	BUFFER TANK	FTR	FIN TUBE RADIATION
CH	CHILLER	GMU	GLYCOL MAKE UP UNIT
CT	COOLING TOWER	GRV	GRAVITY ROOF VENTILATOR
CUH	CABINET UNIT HEATER	HE	HEAT EXCHANGER
CHUV	CEILING HUNG UNIT VENTILATOR	HRTU	HEAT RECOVERY UNIT
CHWP	CHILLED WATER PUMP	P	PUMP
DBP	DOMESTIC WATER BOOSTER PUMP	PRE	POWER ROOF EXHAUSTER
DC	DUCT MOUNTED COIL	RTU	ROOFTOP UNIT
DCP	DOMESTIC WATER CIRCULATING PUMP	SP	SUMP PUMP
EF	EXHAUST FAN	UH	UNIT HEATER
EDC	ELECTRIC DUCT COIL	UV	UNIT VENTILATOR
		WH	WATER HEATER

DUCTWORK SYMBOLS

	SQUARE DUCT SIZE TAG (WIDTH x HEIGHT)
	SQUARE DUCT WITH INTERNAL INSULATION INTERNAL SIZE TAG (WIDTH x HEIGHT)
	OVVAL DUCT SIZE TAG (WIDTH / HEIGHT)
	ROUND DUCT SIZE TAG (DIAMETER)
	EXISTING DUCT TAG
	DUCT BEING DEMOLISHED
	FLEX DUCT (MAX 3'-0")
	RECTANGULAR SUPPLY/OUTSIDE AIR DUCT RISE
	ROUND SUPPLY/OUTSIDE AIR DUCT RISE
	RECTANGULAR RETURN/TRANSFER AIR DUCT RISE
	ROUND RETURN/TRANSFER AIR DUCT RISE
	RECTANGULAR EXHAUST/RELIEF AIR DUCT RISE
	ROUND EXHAUST/RELIEF AIR DUCT RISE

GRILLES, REGISTERS & DIFFUSERS TAGS

	TYPE (SEE SPECIFICATIONS)	CFM	NECK SIZE / MODULE SIZE
	E-1-500 CFM	12"x10" / 24x24	
	R-1-500 CFM	12"x10" / 24x24	
	S8-400 CFM	48"x3"	
	S9-200 CFM	24"x6" / 8"	NUMBER OF SLOTS / ACTIVE SLOT LENGTH (PLENUM LENGTH) / NECK SIZE ELEVATION (CENTER OF FACE)
	S10-150 CFM	12"x6"	
			AIRFLOW DIRECTION ARROW

MECHANICAL EQUIPMENT TAGS

	POWERED EQUIPMENT TAG	RTU-XX	EQUIPMENT ID
	NON-POWERED EQUIPMENT TAG	VAV-XX	EQUIPMENT DATA

FIN TUBE/BASEBOARD EQUIPMENT TAG

	TYPE	FTR-A	ENCLOSURE LENGTH
	ELEMENT LENGTH	W-W	W-W - WALL TO WALL
	GPM	8.5 GPM	WU - WALL TO UNIT BARE - BARE ELEMENT X'-X" - LENGTH

DUCT DAMPER TAGS

	COMB. FIRE/SMOKE DAMPER
	SMOKE DAMPER
	FIRE DAMPER
	MANUAL BALANCING DAMPER
	MOTORIZED DAMPER
	BACKDRAFT DAMPER

SENSORS SYMBOL LIST

	THERMOSTAT
	TEMPERATURE SENSOR
	CARBON DIOXIDE SENSOR
	CARBON MONOXIDE SENSOR
	HUMIDISTAT
	NATURAL GAS SENSOR

PIPING SYMBOLS

	EXISTING PIPE TAG
	PIPING BEING DEMOLISHED
	CHILLED GLYCOL RETURN
	CHILLED GLYCOL SUPPLY
	CHILLED WATER RETURN
	CHILLED WATER SUPPLY
	CONDENSATE DRAINAGE
	CONDENSER WATER RETURN
	CONDENSER WATER SUPPLY
	GEOTHERMAL WATER RETURN
	GEOTHERMAL WATER SUPPLY
	HEATING WATER RETURN
	HEATING WATER SUPPLY
	HEATING GLYCOL RETURN
	HEATING GLYCOL SUPPLY
	NATURAL GAS
	PROPANE GAS
	REFRIGERANT-LIQUID
	REFRIGERANT-SUCTION
	REFRIGERANT-HOT GAS
	LOW PRESSURE STEAM
	LOW PRESSURE CONDENSATE

PIPE ACCESSORY SYMBOLS

	ANGLE VALVE		MANUAL AIR VENT
	AUTOMATIC AIR VENT		PLUG VALVE
	AUTOFLOW VALVE		PRESSURE GAUGE
	BALL VALVE		PRESSURE REDUCING VALVE
	BLIND FLANGE		PRESSURE RELIEF VALVE
	BUTTERFLY VALVE		PRESSURE SENSOR
	CHECK VALVE		PT PORT
	CIRCUIT SETTER		PUMP
	CONCENTRIC REDUCER		REDUCED PRESSURE ZONE VALVE ASSEMBLY
	DIFF. PRESSURE SENSOR		TEMPERATURE SENSOR
	DIRECTION OF FLOW		THERMOMETER
	DOUBLE CHECK VALVE ASSEMBLY		THERMODYNAMIC TRAP
	DRAIN VALVE WITH CAP		3-WAY CONTROL VALVE
	EXPANSION COMPENSATOR		2-WAY CONTROL VALVE
	FLEXIBLE CONNECTION		TIPPLE DUTY VALVE
	F&T TRAP		UNION
	FLOW SWITCH		WYE STRAINER
	GATE VALVE		WYE STRAINER W/ BALL
	GLOBE VALVE		WYE STRAINER W/ GATE

TEMPERATURE CONTROLS SYMBOLS LIST

	ANALOG IN		LOW LIMIT
	ANALOG OUT		MANUAL SWITCH STOP/START
	COMMUNICATIONS PORT		PRESSURE SENSOR
	AIRBORN CONTAMINANT SENSOR		DIFFERENTIAL PRESSURE
	DIGITAL IN		POSITION SENSOR
	DAMPER/VALVE ACTUATOR		STOP / START
	DIGITAL OUT		SMOKE DETECTOR
	ENERGY MANAGEMENT CONTROL SYSTEM		STATUS
	FLOW (WATER/AIR)		STARTER
	FLOW METER		ADJUSTABLE THERMOSTAT
	AIR FLOW SENSOR		TEMPERATURE SENSOR
	FREEZE STAT		VARIABLE FREQUENCY DRIVE
	HUMIDITY SENSOR		WATER SENSOR
	HIGH LIMIT		PERCENT
	KILOWATT HOUR METER		

HVAC GENERAL NOTES

- THE PRIME CONTRACTORS ARE MUTUALLY RESPONSIBLE FOR COORDINATING THEIR WORK WITH THE WORK OF THE OTHER PRIME CONTRACTORS AND THAT OF THE OWNER AS OUTLINED IN THE GENERAL CONDITIONS OF THE CONSTRUCTION CONTRACT AND THE SUPPLEMENTARY CONDITIONS. COORDINATE EXISTING SYSTEM SHUT DOWNS IN ADVANCE WITH THE OWNER.
- THE CONTRACT DRAWINGS ARE IN PART, DIAGRAMMATIC AND ARE INTENDED TO CONVEY THE GENERAL SCOPE AND INTENT OF THE WORK, WELL AS INDICATE THE GENERAL ARRANGEMENT OF THE EQUIPMENT. THE CONTRACTOR IS TO COMPLY WITH THE DRAWINGS FOR GENERAL LAYOUT OF THE WORK AND IF THERE ARE DISCREPANCIES, THE CONTRACTOR IS TO NOTIFY THE ARCHITECT/ENGINEER IMMEDIATELY. PROVIDE ALL RELATED ACCESSORIES REQUIRED FOR A COMPLETE OPERATIONAL AND SATISFACTORY INSTALLATION REQUIRED FOR CONTINUOUS USE BY OWNER.
- AS NOTED ABOVE, THESE DRAWINGS ARE DIAGRAMMATIC IN NATURE AND INDICATE THE SIZE AND GENERAL ARRANGEMENT OF PIPING, DUCTWORK, EQUIPMENT, AND SPECIALTIES. MINOR ADJUSTMENTS TO LOCATIONS AND ROUTINGS SHOWN SHALL BE DETERMINED IN THE FIELD BEFORE AND AS THE WORK PROGRESSES.
- CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS PRIOR TO COMMENCEMENT OF ANY WORK OR SHOP FABRICATION. ANY REQUIRED CHANGES TO WORK SHOWN ON DRAWINGS SHALL BE COORDINATED WITH ARCHITECT/ENGINEER AND OTHER TRADES PRIOR TO CONSTRUCTION.
- DRAWINGS DO NOT INDICATE ALL OFFSETS, CHANGES IN ELEVATION, ETC. WHICH MAY BE REQUIRED BY ACTUAL FIELD CONDITIONS. THE CONTRACTOR SHALL PROVIDE FOR SUCH CHANGES IN PIPING, DUCTWORK, OR EQUIPMENT LOCATIONS AS NECESSARY TO ACCOMMODATE FIELD CONDITIONS AND THE WORK OF OTHER CONTRACTS.
- THE WORK INCLUDED IN THIS CONTRACT ENCOMPASSES BOTH THE DRAWINGS AND SPECIFICATIONS. WORK INCLUDED ON THE DRAWINGS ONLY, OR IN THE SPECIFICATIONS ONLY, SHALL BE INCORPORATED AS IF INCLUDED IN BOTH. SYSTEMS ARE INTENDED TO BE COMPLETE AND FULLY FUNCTIONING.
- COORDINATE THE WORK OF THIS CONTRACT WITH THE WORK OF OTHER CONTRACTS.
- PHASE INSTALLATION OF EQUIPMENT, PIPING, AND DUCTWORK TO ENSURE CONSTRUCTABILITY, AND THAT CONSTRUCTION PROCEEDS IN AN EFFICIENT, ORGANIZED, AND ORDERLY MANNER. PIPING TO BE SLOPED SHALL TAKE PRECEDENCE OVER PRESSURE PIPING AND DUCTWORK AND EQUIPMENT LOCA.
- PROVIDE THROUGH-PENETRATION AND MEMBRANE FIRESTOPPING SYSTEMS FOR ALL WORK PENETRATING VERTICAL AND HORIZONTAL FIRE-RATED AND SMOKE-RATED ASSEMBLIES. PROVIDE THROUGH-PENETRATION FIRESTOPPING SYSTEMS AND MEMBRANE FIRESTOPPING SYSTEMS AT OPENINGS (VOIDS) CREATED BY REMOVALS OR DEMOLITION WORK AT FIRE-RATED AND SMOKE-RATED ASSEMBLIES. REFERENCE THE CODE COMPLIANCE (CC) DRAWINGS OR OTHER PLANS INDICATING FIRE-RATED AND SMOKE-RATED ASSEMBLIES AND THEIR LOCATIONS. SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION.
- CONTRACTOR SHALL PROVIDE ALL CONTROL WIRING NOT PROVIDED BY THE ELECTRICAL CONTRACTOR IN ACCORDANCE WITH CONTRACT SPECIFICATIONS.
- INSTALL ALL PIPING, DUCTWORK, EQUIPMENT, AND SPECIALTIES TO ALLOW MAXIMUM CLEARANCE AND AVOID INTERFERENCE WITH OPERATION AND MAINTENANCE OF ALL EQUIPMENT, NEW OR EXISTING. DO NOT INSTALL ANYTHING ABOVE OR WITHIN 3 FT. IN FRONT OF ELECTRICAL GEAR.
- ALL EQUIPMENT SHALL BE INSTALLED IN STRICT ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTION MANUAL OR MANUFACTURER'S REPRESENTATIVE'S WRITTEN INSTRUCTIONS.
- ABOVE FINISH FLOOR (AFF) DIMENSIONS SHOWN ON DRAWINGS INDICATE CLEAR DIMENSIONS FROM FINISH FLOOR (FF) TO BOTTOM OF UNIT UNLESS INDICATED OTHERWISE.
- DUCT DIMENSIONS SHOWN ON DRAWINGS ARE SHOWN AS "SIDE SEEN" X "SIDE NOT SEEN" AND INDICATE CLEAR INSIDE DIMENSIONS. ROUND DUCT MAY BE SUBSTITUTED FOR RECTANGULAR DUCT, AS APPROVED, PROVIDING CROSS-SECTIONAL AREA IS MAINTAINED ACCORDING TO THE TABLE OF EQUIVALENT RECTANGULAR DUCT DIMENSIONS, ASHRAE HANDBOOK OF FUNDAMENTALS. FIELD VERIFY CLEARANCE FOR ROUND DUCT IN LIEU OF RECTANGULAR.
- ALL DUCTWORK AND HANGERS SHALL BE CONSTRUCTED ACCORDING TO SMACNA STANDARDS AND CLASSIFICATIONS. PROVIDE SINGLE THICKNESS TURNING VANES IN 90° SQUARE/RECTANGULAR ELBOWS. PROVIDE MANUAL DAMPERS IN ALL DUCT BRANCH TAKE OFFS WHETHER SHOWN OR NOT. DAMPERS OVER 12" EQUIVALENT DIAMETER SHALL BE OPPOSED BLADE TYPE. BRANCH DUCTS AND SLEEVES TO REGISTERS SHALL BE THE SAME SIZE AS THE NOMINAL REGISTER SIZE UNLESS INDICATED OTHERWISE.
- CONTRACTOR SHALL PROVIDE SHUTOFF VALVES ON THE ASSOCIATED PIPING OF EACH PIECE OF MECHANICAL EQUIPMENT TO ALLOW ISOLATION FOR SERVICE AND REPAIR WHETHER SHOWN OR NOT.

GENERAL DEMOLITION NOTES

- PERFORM DEMOLITION IN AN ORGANIZED AND CAREFUL MANNER. LEAVE AREAS UNDER DEMOLITION CLEAN AND ORDERLY AT THE END OF EACH SHIFT.
- CONTRACTOR IS RESPONSIBLE TO PROPERLY DRAIN OR DISCHARGE MECHANICAL SYSTEMS PRIOR TO START OF DEMOLITION. COORDINATE WITH OWNER AND ALL APPLICABLE CODES FOR WASTE FLUID DISPOSAL.
- PROTECT BUILDING OR SYSTEM COMPONENTS SCHEDULED TO REMAIN.
- MINIMIZE INTERFERENCE TO OWNER OCCUPIED AREAS OR AREAS NOT INCLUDED IN SCOPE OF WORK THROUGHOUT DEMOLITION PHASE.
- COORDINATE DEMOLITION WORK OF THIS CONTRACT WITH WORK OF OTHER CONTRACTS AND THE OWNER. COORDINATE WITH ASBESTOS ABATEMENT CONTRACTOR PRIOR TO COMMENCEMENT OF ANY WORK.
- IDENTIFY ANY REMAINING OR ABANDONED UTILITIES WITHIN DEMOLITION AREAS. IDENTIFICATION TAGS SHALL BE IN ACCORDANCE WITH MECHANICAL IDENTIFICATION SPECIFICATION.
- REMOVE ALL DEMOLISHED MATERIALS FROM THE WORK SITE AS WORK PROGRESSES UNLESS NOTED OTHERWISE. OWNER RETAINS THE RIGHT TO KEEP ANY MATERIALS OR EQUIPMENT REMOVED, TURN OVER SUCH ITEMS TO OWNER UPON REQUEST.
- COMPLETELY REMOVE ABANDONED PIPING, DUCTWORK, OR EQUIPMENT. BRANCH WORK TO BE DEMOLISHED SHALL BE COMPLETELY REMOVED BACK TO POINT OF DISCONNECTION.
- BLANK OFF, PLUG, OR CAP BRANCH PIPING OR DUCTWORK TO BE DEMOLISHED AT THE POINT OF DISCONNECTION FROM MAIN.
- COMPLETELY REMOVE PIPE HANGERS, STRAPS, CLAMPS, AND SUPPORTS ASSOCIATED WITH DUCTWORK, PIPING, OR EQUIPMENT BEING DEMOLISHED.
- ALL ELECTRICAL POWER WIRING DISCONNECT AND REMOVAL ASSOCIATED WITH MECHANICAL EQUIPMENT REMOVAL IS INDICATED ON THE "E" SERIES DRAWINGS AND IN DIVISION 26. ALL CONTROL WIRING REMOVAL IS THE RESPONSIBILITY OF THIS CONTRACT. COORDINATE ACCORDINGLY.

MECHANICAL DESIGN CRITERIA

THE WORK OF THIS CONTRACT HAS BEEN DESIGNED IN ACCORDANCE WITH THE ENERGY CONSERVATION CONSTRUCTION CODE OF NEW YORK STATE AND THE MANUAL OF PLANNING STANDARDS FOR NEW YORK STATE SCHOOL BUILDINGS. MECHANICAL DESIGN CRITERIA ARE BASED ON REQUIREMENTS FOR NEW YORK STATE ZONE 6 OF THE ENERGY CONSERVATION CONSTRUCTION CODE OF NEW YORK STATE AND THE NEAREST LOCATION TO THE SITE AS PUBLISHED IN THE ASHRAE HANDBOOK OF FUNDAMENTALS. DESIGN VENTILATION RATES PROVIDED MEET OR EXCEED THE MINIMUM REQUIREMENTS OF THE NEW YORK STATE MECHANICAL CODE AND ASHRAE STANDARD 62 VENTILATION FOR ACCEPTABLE INDOOR AIR QUALITY. DESIGN TEMPERATURES MAY BE MORE CONSERVATIVE THAN THE ABOVE MINIMUM REQUIREMENTS WHERE APPROPRIATE AND WITHIN THE LIMITS OF APPLICABLE CODES.

DESIGN CRITERIA:
 WINTER OUTSIDE AIR: -13°F DB
 SUMMER OUTSIDE AIR: 86°F DB; 71°F WB
 WINTER INTERIOR SPACE: 70°F DB
 SUMMER INTERIOR SPACE: 75°F DB; 55% RH

NOTE: THE SCOPE OF THIS PROJECT INCLUDES THE CONVERSION OF THE EXISTING HOT WATER SYSTEM TO 40% PROPYLENE GLYCOL. ALL NEW WORK TAGGED WITH "HWS" OR "HWR" INDICATES 40% PROPYLENE GLYCOL. REPLACEMENT GLYCOL MAKEUP UNIT SIZED TO OPERATE UNDER TOTAL SYSTEM VOLUME OF 5000 GALLONS.

HVAC SHEET INDEX

MS000	MECHANICAL GENERAL NOTES, LEGENDS & ABBREVIATIONS
MD100	BASEMENT DEMOLITION PLAN - AREA B1 AND B2
MD101	FIRST FLOOR DEMOLITION PLAN - AREA A
MD102	FIRST FLOOR DEMOLITION PLAN - AREA B1 AND B2
MD103	FIRST FLOOR DEMOLITION PLAN - AREA C AND D
MD104	FIRST FLOOR DEMOLITION PLAN - AREA E
MD105	FIRST FLOOR DEMOLITION PLAN - DATA CLOSETS AND FREEZERS
MD106	ENLARGED MEZZANINE DEMOLITION PLANS
MD107	ROOF DEMOLITION PLAN
MD300	ENLARGED BOILER ROOM DEMOLITION PLAN
1A-M100	MECHANICAL PLANS, DETAILS, SCHEMATICS, AND SCHEDULES
M100	BASEMENT PLAN - AREA B1 AND B2
M101	FIRST FLOOR PLAN - AREA A
M102	FIRST FLOOR PLAN - AREA B1 AND B2
M102A	FIRST FLOOR PLAN - AREA B1 (ALTERNATE)
M103	FIRST FLOOR PLAN - AREA C AND D
M103A	FIRST FLOOR PLAN - AREA C (ALTERNATE)
M104	FIRST FLOOR PLAN - AREA E
M105	FIRST FLOOR PLAN - DATA CLOSETS AND FREEZERS
M106	ENLARGED MEZZANINE PLANS
M107	ROOF PLAN
M300	ENLARGED BOILER ROOM PLAN
M301	BOILER ROOM PIPING SCHEMATICS
M400	MECHANICAL SCHEMATICS
M401	MECHANICAL SCHEMATICS
M400	MECHANICAL DETAILS
M401	MECHANICAL DETAILS
M400	MECHANICAL SCHEDULES
M400A	MECHANICAL SCHEDULES - ALTERNATE
M401	MECHANICAL SCHEDULES

KEY PLAN:

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SED NO. 22-04-01-04-0-003-010
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GENERAL BROWN CSD

JUNIOR SENIOR HIGH SCHOOL

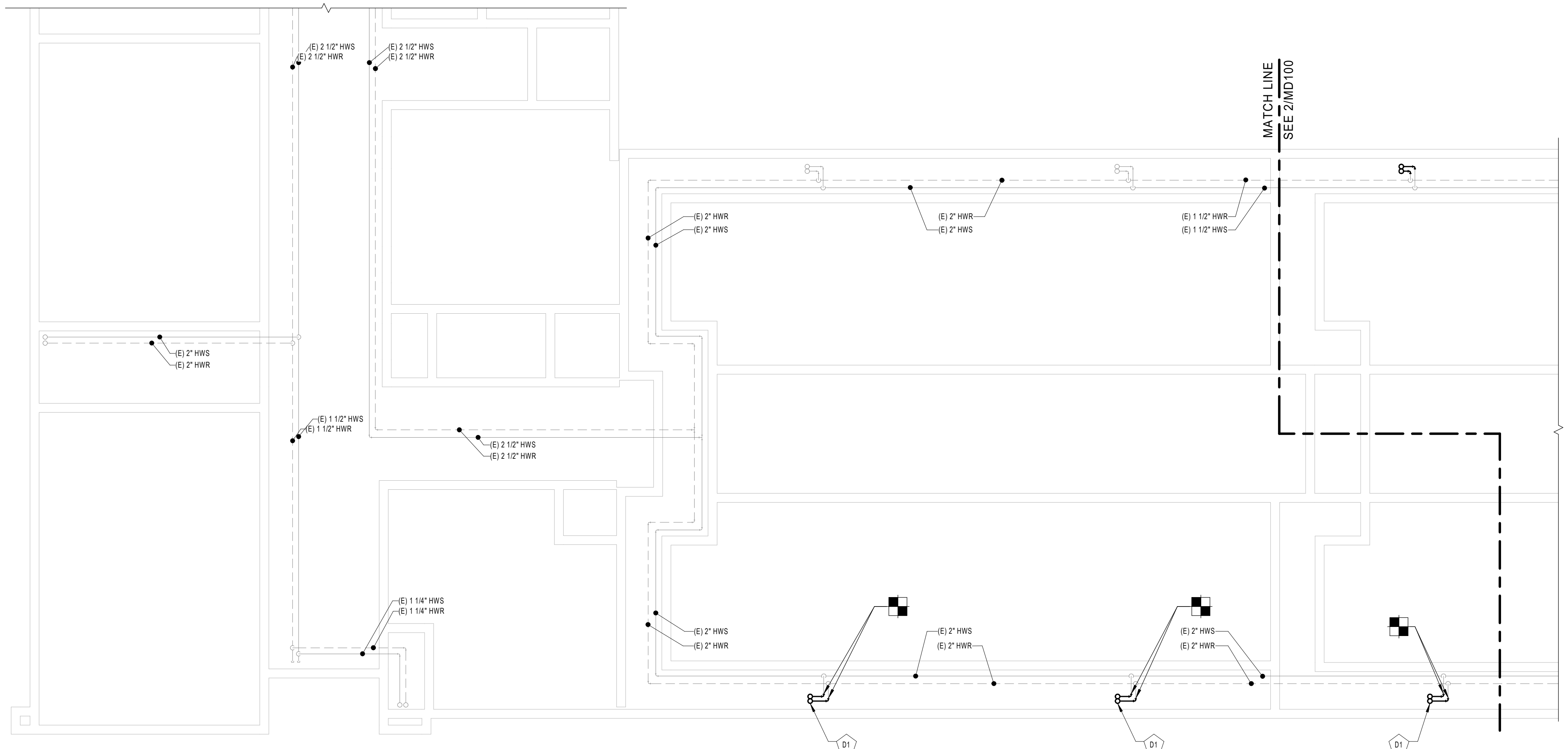
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REV	DATE	DESCRIPTION

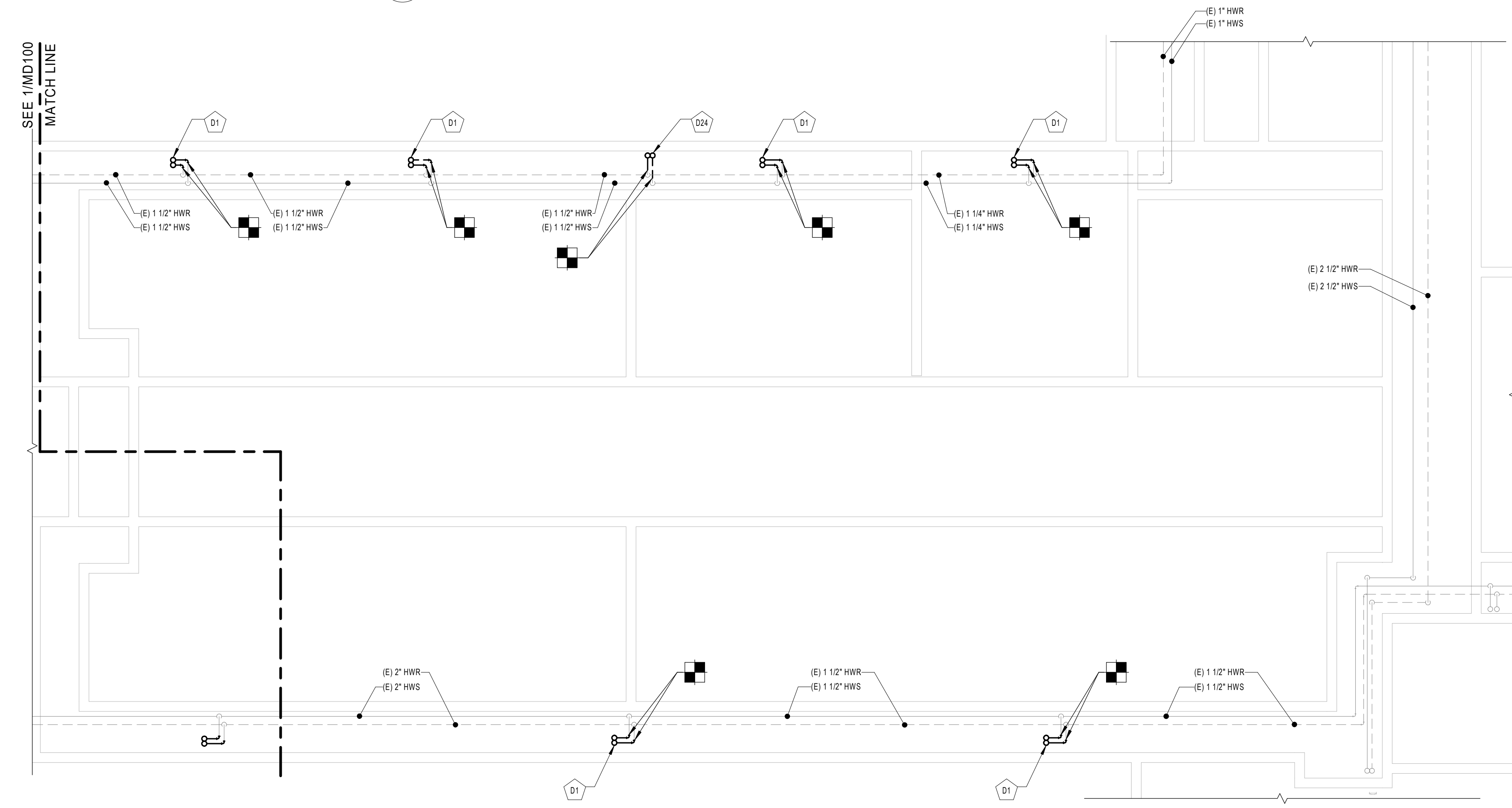
DRAWN BY	PROJECT NUMBER
JVG/DK	2023-105
CHECKED BY	DATE
JLM	12/16/2024

MECHANICAL GENERAL NOTES, LEGENDS & ABBREVIATIONS

BUILDING NUMBER	SHEET NUMBER
HS	MS000
	BID



1 BASEMENT DEMOLITION PLAN - AREA B1
SCALE: 1/8" = 1'-0"



2 BASEMENT DEMOLITION PLAN - AREA B2
SCALE: 1/8" = 1'-0"

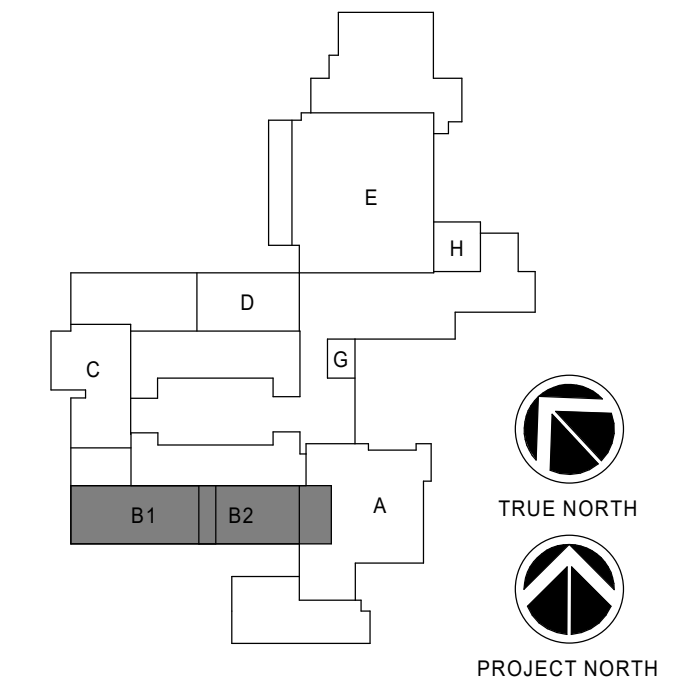
GENERAL NOTES:

- SEE DRAWING MS000 FOR GENERAL NOTES, ABBREVIATIONS, SYMBOLS AND LEGENDS
- COORDINATE WITH HM SHEETS FOR ASBESTOS ABATEMENT OF MATERIALS PRIOR TO DEMOLITION OF MECHANICAL SYSTEMS

DEMOLITION KEYNOTE LEGEND

- D1 REMOVE EXISTING HOT WATER SUPPLY AND RETURN PIPING, VALVES, AND ALL ASSOCIATED ACCESSORIES UP TO UNIT VENTILATOR ON FLOOR ABOVE. REMOVE PIPING BACK TO POINT OF DISCONNECTION AS SHOWN.
- D24 REMOVE EXISTING HOT WATER SUPPLY AND RETURN PIPING, VALVES, AND ALL ASSOCIATED ACCESSORIES UP TO CEILING MOUNTED CABINET UNIT HEATER IN PREP ROOM 300A. REMOVE PIPING BACK TO POINT OF DISCONNECTION AS SHOWN.

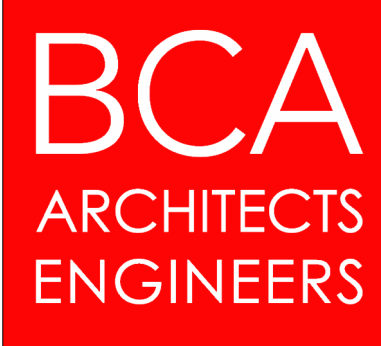
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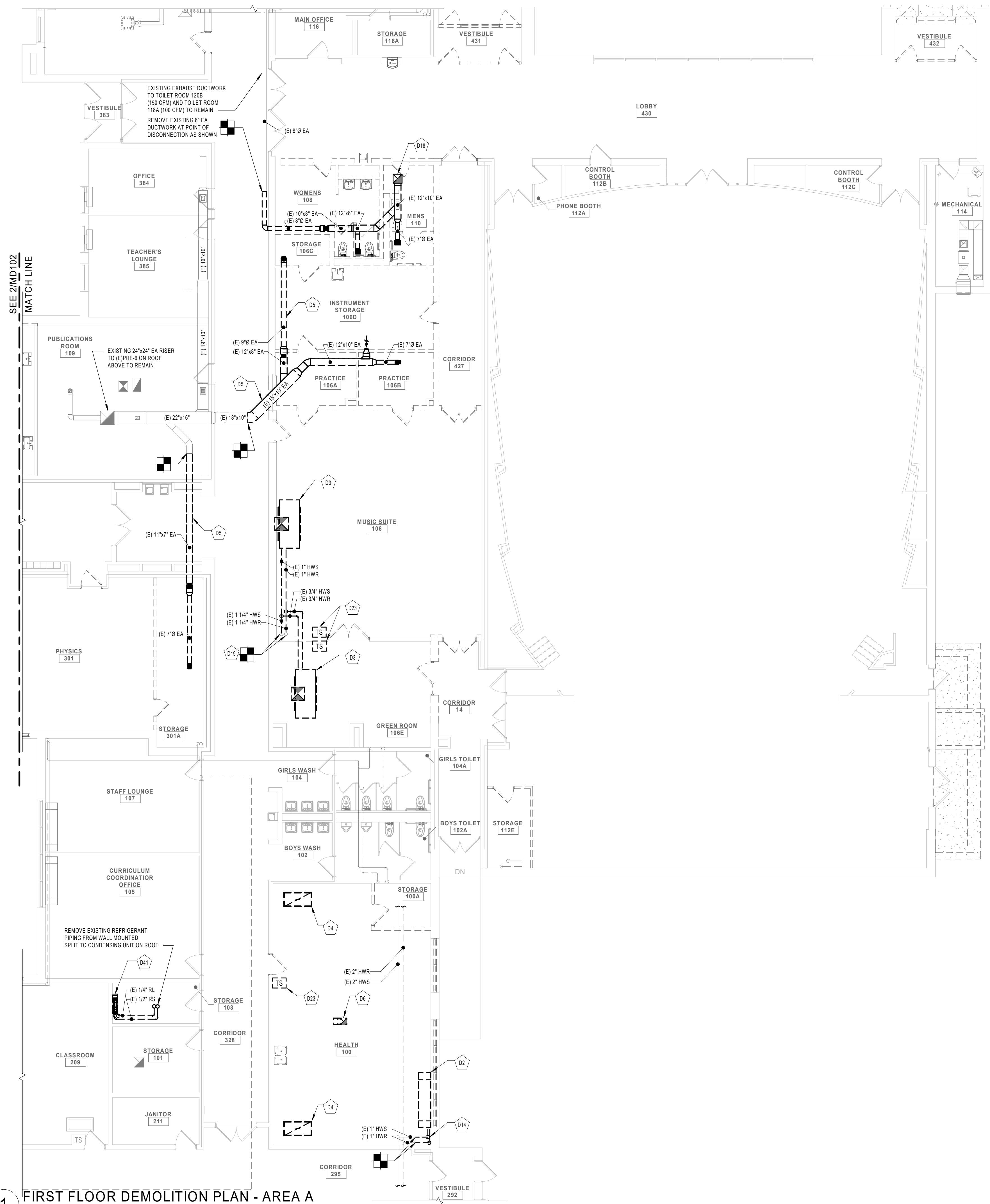
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REV	DATE	DESCRIPTION

DRAWN BY JVJ/DK	PROJECT NUMBER 2023-105
CHECKED BY JLM	DATE 12/16/2024
BASEMENT DEMOLITION PLAN - AREA B1 AND B2	
BUILDING NUMBER HS	SHEET NUMBER MD100 BID

12/16/2024 9:18:56 AM

12/16/2024 3:47:55 PM



1 FIRST FLOOR DEMOLITION PLAN - AREA A
SCALE: 1/8" = 1'-0"

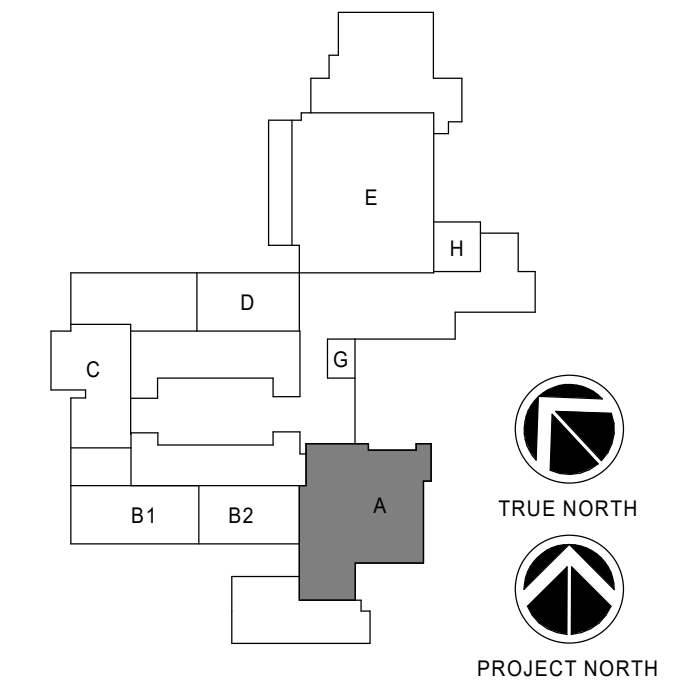
GENERAL NOTES:

- SEE DRAWING M500 FOR GENERAL NOTES, ABBREVIATIONS, SYMBOLS AND LEGENDS
- COORDINATE WITH HM SHEETS FOR ASBESTOS ABATEMENT OF MATERIALS PRIOR TO DEMOLITION OF MECHANICAL SYSTEMS

DEMOLITION KEYNOTE LEGEND

- D2 REMOVE EXISTING FLOOR MOUNTED UNIT VENTILATOR, HOT WATER SUPPLY AND RETURN PIPING CONNECTIONS TO UNIT, VALVES, CONTROLS, AND ALL ASSOCIATED ACCESSORIES. REMOVE EXISTING LOUVER AND DUCTWORK SLEEVE BETWEEN UNIT VENTILATOR AND LOUVER. COORDINATE WITH GC FOR WALL INFILL. COORDINATE WITH EC TO DISCONNECT POWER.
- D3 REMOVE EXISTING CEILING UNIT VENTILATOR, HOT WATER SUPPLY AND RETURN PIPING CONNECTIONS TO UNIT, VALVES, CONTROLS, AND ALL ASSOCIATED ACCESSORIES. REMOVE EXISTING OUTDOOR AIR DUCTWORK BETWEEN UNIT AND UP TO ROOF INTAKE VENTILATOR ON ROOF. COORDINATE WITH EC TO DISCONNECT POWER.
- D4 REMOVE EXISTING 24"x48" RETURN GRILLE IN CEILING.
- D5 REMOVE EXISTING EXHAUST AIR DUCTWORK SYSTEM, CEILING AND WALL MOUNTED GRILLES, AND ALL ASSOCIATED ACCESSORIES BACK TO POINT OF DISCONNECTION AS SHOWN. EXISTING EXHAUST AIR DUCTWORK RISER UP TO POWERED ROOF EXHAUST ON ROOF TO REMAIN. REFER TO RENOVATION PLANS FOR CONTINUATION.
- D6 REMOVE EXISTING EXHAUST AIR DUCTWORK AND ALL ASSOCIATED ACCESSORIES ABOVE CEILING UP TO POWERED ROOF EXHAUST ON ROOF.
- D14 REMOVE EXISTING 1" HWS AND HWR PIPING DROPS, AND ASSOCIATED VALVES DOWN TO UNIT VENTILATOR. REMOVE PIPING BACK TO POINT OF DISCONNECTION AS SHOWN.
- D18 REMOVE EXISTING EXHAUST AIR DUCTWORK SYSTEM, CEILING GRILLES, AND ALL ASSOCIATED ACCESSORIES BACK TO POINT OF DISCONNECTION AS SHOWN. REMOVE EXISTING EXHAUST AIR DUCTWORK RISER UP TO POWERED ROOF EXHAUST ON ROOF. REFER TO RENOVATION PLANS FOR CONTINUATION.
- D19 REMOVE EXISTING 1" HWS AND HWR PIPING CONNECTIONS TO UNIT VENTILATOR IN MUSIC SUITE 106. 3/4" HWS AND HWR PIPING CONNECTIONS TO UNIT VENTILATOR IN GREEN ROOM 106E, AND ALL ASSOCIATED VALVES BACK TO EXISTING 1-1/2" HWS AND HWR DROPS IN CORNER OF MUSIC SUITE 106. REMOVE PIPING BACK TO POINT OF DISCONNECTION AS SHOWN. REFER TO RENOVATION PLANS FOR CONTINUATION.
- D23 REMOVE EXISTING SPACE TEMPERATURE SENSOR, CONTROLS, AND ALL ASSOCIATED ACCESSORIES
- D41 REMOVE EXISTING WALL MOUNTED COOLING ONLY MINI-SPLIT, REFRIGERATION PIPING, CONTROLS, AND ALL ASSOCIATED ACCESSORIES. EXISTING CONDENSATE DRAIN TO REMAIN. DISCONNECT FROM EXISTING UNIT. COORDINATE WITH EC TO DISCONNECT POWER.

KEY PLAN:



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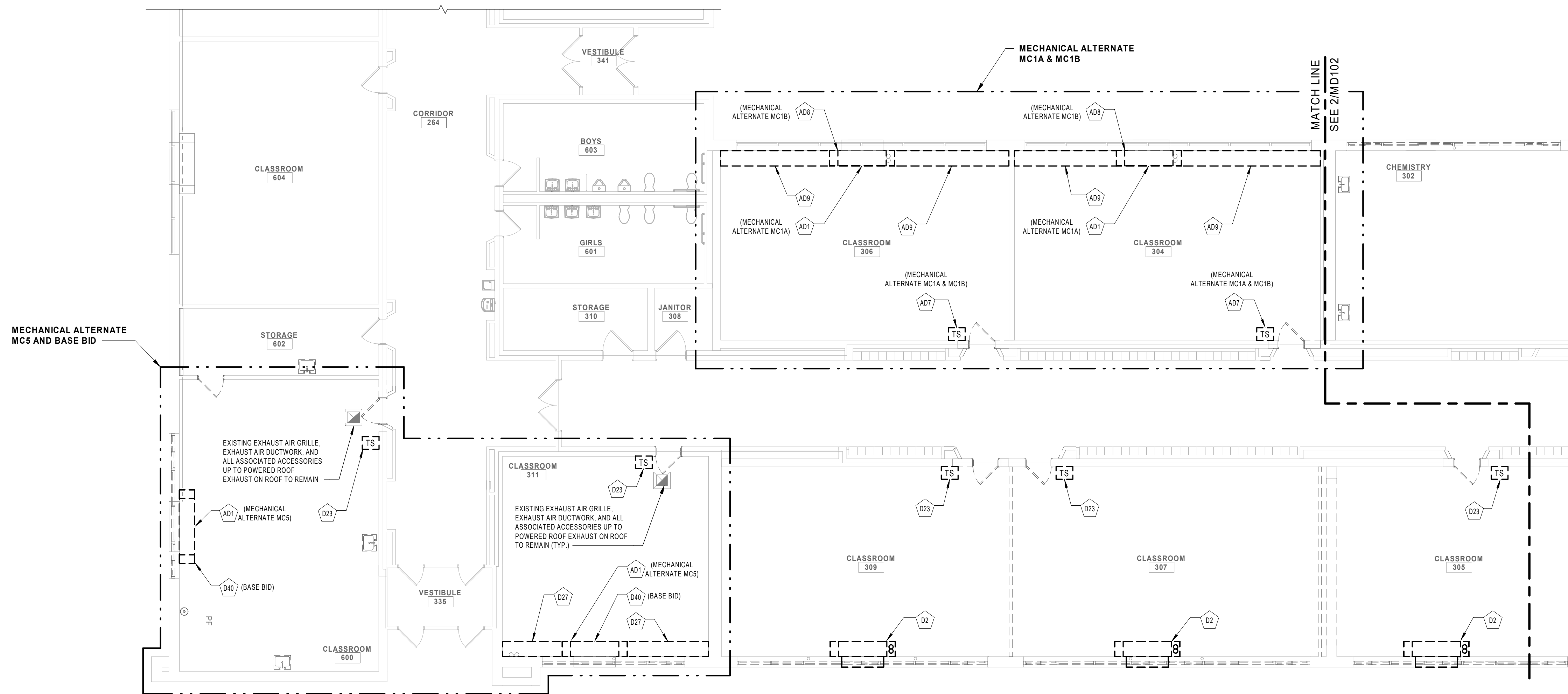


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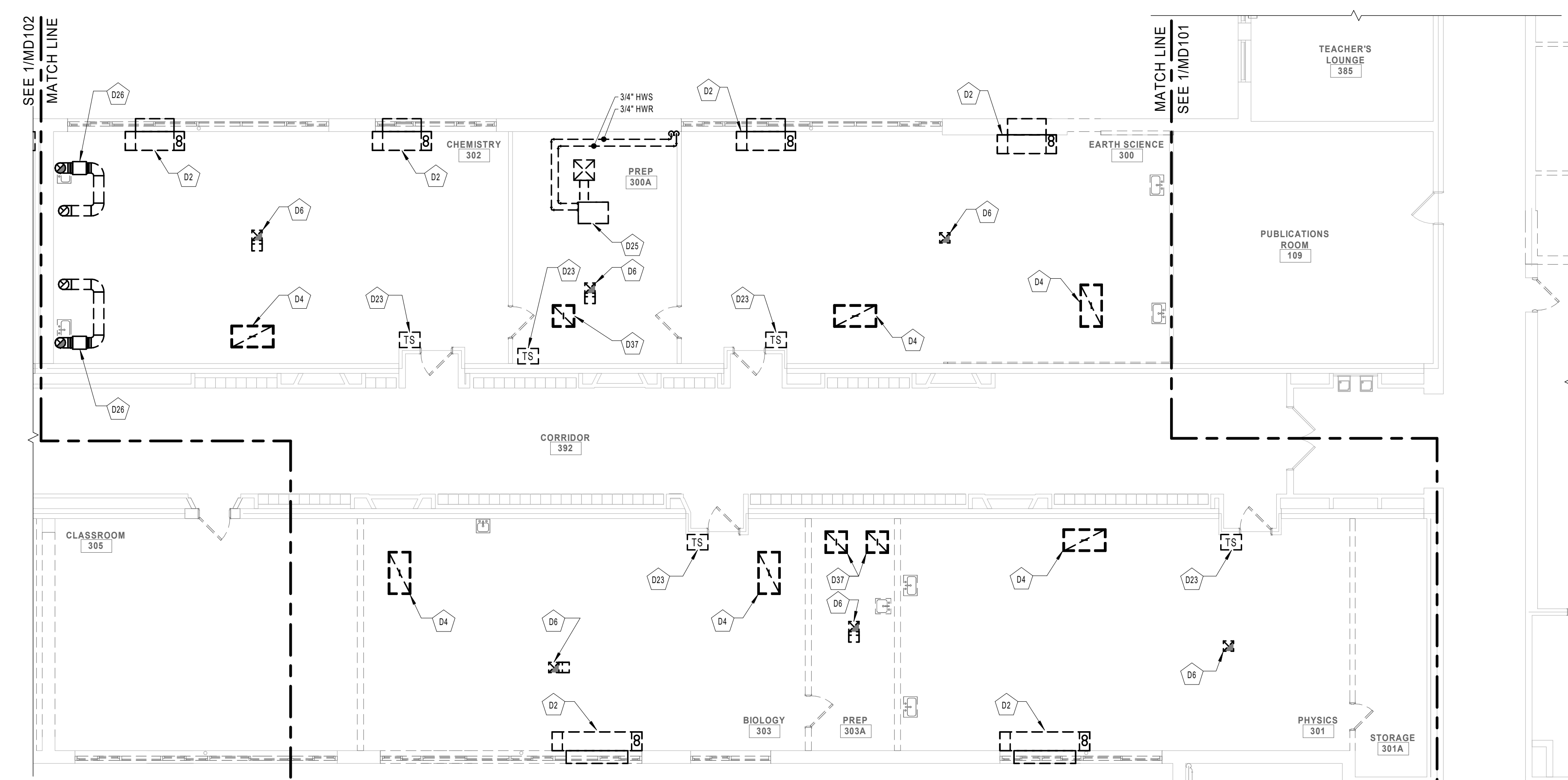
REV	DATE	DESCRIPTION

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CHECKED BY: JLM DATE: 12/16/2024

FIRST FLOOR DEMOLITION PLAN - AREA A
BUILDING NUMBER: HS SHEET NUMBER: MD101
BID



1 FIRST FLOOR DEMOLITION PLAN - AREA B1
SCALE: 1/8" = 1'-0"

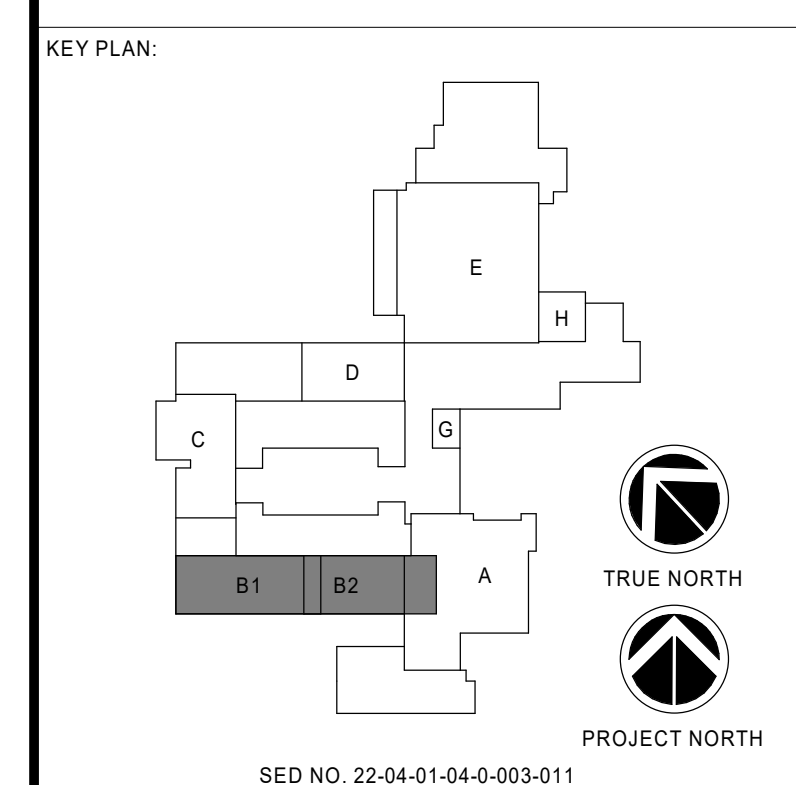


2 FIRST FLOOR DEMOLITION PLAN - AREA B2
SCALE: 1/8" = 1'-0"

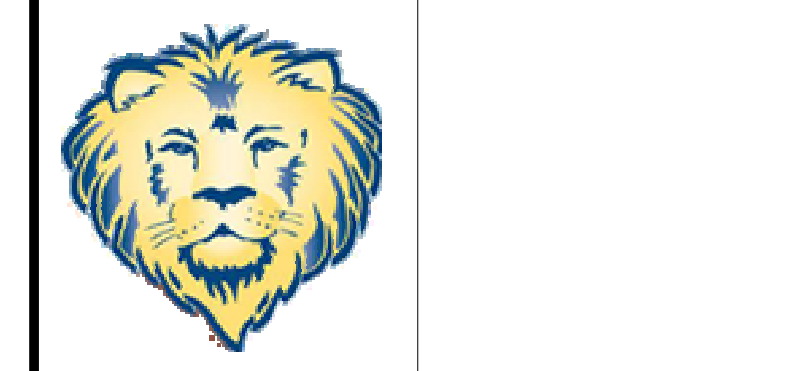
GENERAL NOTES:
1. SEE DRAWING MS000 FOR GENERAL NOTES, ABBREVIATIONS, SYMBOLS AND LEGENDS

- DEMOLITION KEYNOTE LEGEND**
- D2 REMOVE EXISTING FLOOR MOUNTED UNIT VENTILATOR, HOT WATER SUPPLY AND RETURN PIPING CONNECTIONS TO UNIT, VALVES, CONTROLS, AND ALL ASSOCIATED ACCESSORIES. REMOVE EXISTING LOUVER AND DUCTWORK SLEEVE BETWEEN UNIT VENTILATOR AND LOUVER, COORDINATE WITH GC FOR WALL INFILL. COORDINATE WITH EC TO DISCONNECT POWER.
 - D4 REMOVE EXISTING 24"x48" RETURN GRILLE IN CEILING.
 - D6 REMOVE EXISTING EXHAUST AIR DUCTWORK AND ALL ASSOCIATED ACCESSORIES ABOVE CEILING UP TO POWERED ROOF EXHAUST ON ROOF.
 - D23 REMOVE EXISTING SPACE TEMPERATURE SENSOR, CONTROLS, AND ALL ASSOCIATED ACCESSORIES.
 - D25 REMOVE EXISTING CEILING MOUNTED CABINET UNIT HEATER, DUCTWORK AND ASSOCIATED DIFFUSERS, CONTROLS, HOT WATER SUPPLY AND RETURN PIPING, AND ALL ASSOCIATED ACCESSORIES. COORDINATE WITH EC TO DISCONNECT POWER.
 - D26 REMOVE EXISTING INLINE EXHAUST FAN ABOVE CEILING SERVING FUME HOOD, DUCTWORK, DAMPERS, CONTROLS, AND ALL ASSOCIATED ACCESSORIES. REMOVE ENTIRE DUCTWORK SYSTEM UP TO ROOF GOOSENECK. COORDINATE WITH EC TO DISCONNECT POWER.
 - D27 MC SHALL TEMPORARILY REMOVE EXISTING METAL CASEWORK, PROTECT AND STORE CASEWORK FOR REINSTALLATION. MC SHALL BE RESPONSIBLE FOR ANY DAMAGE DURING REMOVAL.
 - D37 REMOVE EXISTING 24"x24" RETURN GRILLE IN CEILING.
 - D40 TEMPORARILY REMOVE EXISTING FLOOR MOUNTED UNIT VENTILATOR, REMOVE HOT WATER SUPPLY AND RETURN PIPING CONNECTIONS TO UNIT, EXISTING DUCTWORK SLEEVE BETWEEN LOUVER AND UNIT VENTILATOR TO REMAIN. EXISTING LOUVER TO REMAIN. REFER TO RENOVATION PLANS FOR CONTINUATION. PROTECT AND STORE UNIT VENTILATOR FOR REINSTALLATION. COORDINATE WITH EC TO DISCONNECT POWER.

- DEMO KEYNOTE LEGEND (ALT.)**
- AD1 REMOVE EXISTING FLOOR MOUNTED UNIT VENTILATOR, HOT WATER SUPPLY AND RETURN PIPING CONNECTIONS TO UNIT, VALVES, CONTROLS, AND ALL ASSOCIATED ACCESSORIES. EXISTING DUCTWORK SLEEVE BETWEEN LOUVER AND UNIT VENTILATOR TO REMAIN. EXISTING LOUVER TO REMAIN. REFER TO RENOVATION PLANS FOR CONTINUATION. PROTECT AND STORE UNIT VENTILATOR FOR REINSTALLATION. COORDINATE WITH EC TO DISCONNECT POWER.
 - AD7 REMOVE EXISTING SPACE TEMPERATURE SENSOR, CONTROLS, AND ALL ASSOCIATED ACCESSORIES.
 - AD8 TEMPORARILY REMOVE EXISTING FLOOR MOUNTED UNIT VENTILATOR, REMOVE HOT WATER SUPPLY AND RETURN PIPING CONNECTIONS TO UNIT, EXISTING DUCTWORK SLEEVE BETWEEN LOUVER AND UNIT VENTILATOR TO REMAIN. EXISTING LOUVER TO REMAIN. REFER TO RENOVATION PLANS FOR CONTINUATION. PROTECT AND STORE UNIT VENTILATOR FOR REINSTALLATION. COORDINATE WITH EC TO DISCONNECT POWER.
 - AD9 MC SHALL TEMPORARILY REMOVE EXISTING METAL CASEWORK, PROTECT AND STORE CASEWORK FOR REINSTALLATION. MC SHALL BE RESPONSIBLE FOR ANY DAMAGE DURING REMOVAL.



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FIRST FLOOR DEMOLITION PLAN - AREA B1 AND B2

BUILDING NUMBER	SHEET NUMBER
HS	MD102
	BID

GENERAL NOTES:

- SEE DRAWING MS00 FOR GENERAL NOTES, ABBREVIATIONS, SYMBOLS AND LEGENDS.
- THE MC IS TO COORDINATE WITH THE AAC FOR THE ABATEMENT OF THE EXISTING PIPING INSULATION, PIPE FITTING INSULATION AND DUCTWORK INSULATION & ASSOCIATED MASTIC. SEE SHEET HM102.

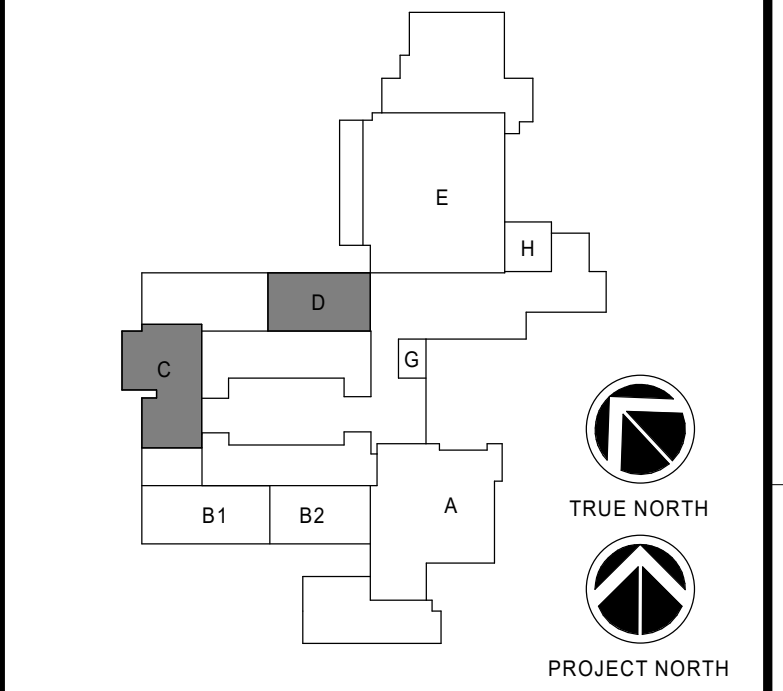
DEMOLITION KEYNOTE LEGEND

- D1 REMOVE EXISTING HOT WATER SUPPLY AND RETURN PIPING, VALVES, AND ALL ASSOCIATED ACCESSORIES UP TO UNIT VENTILATOR ON FLOOR ABOVE. REMOVE PIPING BACK TO POINT OF DISCONNECTION AS SHOWN.
- D2 REMOVE EXISTING FLOOR MOUNTED UNIT VENTILATOR, HOT WATER SUPPLY AND RETURN PIPING CONNECTIONS TO UNIT, VALVES, CONTROLS, AND ALL ASSOCIATED ACCESSORIES. REMOVE EXISTING LOUVER AND DUCTWORK SLEEVE BETWEEN UNIT VENTILATOR AND LOUVER. COORDINATE WITH GC FOR WALL INFILL. COORDINATE WITH EC TO DISCONNECT POWER.
- D4 REMOVE EXISTING 24"X48" RETURN GRILLE IN CEILING.
- D6 REMOVE EXISTING EXHAUST AIR DUCTWORK AND ALL ASSOCIATED ACCESSORIES ABOVE CEILING UP TO POWERED ROOF EXHAUST ON ROOF.
- D8 REMOVE EXISTING AIR HANDLING UNIT, DUCTWORK SYSTEM, HOT WATER SUPPLY AND RETURN PIPING CONNECTIONS TO UNIT, VALVES, CONTROLS, AND ALL ASSOCIATED ACCESSORIES. COORDINATE WITH EC TO DISCONNECT POWER.
- D23 REMOVE EXISTING SPACE TEMPERATURE SENSOR, CONTROLS, AND ALL ASSOCIATED ACCESSORIES. COORDINATE WITH GC FOR WALL INFILL.
- D28 REMOVE EXISTING LOUVER, DUCTWORK, AND ALL ASSOCIATED ACCESSORIES. COORDINATE WITH GC FOR WALL INFILL.
- D29 REMOVE EXISTING WALL MOUNTED GRILLES, DUCTWORK, AND ALL ASSOCIATED ACCESSORIES. COORDINATE WITH GC FOR WALL INFILL.
- D40 TEMPORARILY REMOVE EXISTING FLOOR MOUNTED UNIT VENTILATOR. REMOVE HOT WATER SUPPLY AND RETURN PIPING CONNECTIONS TO UNIT. EXISTING DUCTWORK SLEEVE BETWEEN LOUVER AND UNIT VENTILATOR TO REMAIN. EXISTING LOUVER TO REMAIN. REFER TO RENOVATION PLANS FOR CONTINUATION. PROTECT AND STORE UNIT VENTILATOR FOR REINSTALLATION. COORDINATE WITH EC TO DISCONNECT POWER.
- D41 REMOVE EXISTING WALL MOUNTED COOLING ONLY MINI-SPLIT REFRIGERATION PIPING, CONTROLS, AND ALL ASSOCIATED ACCESSORIES. EXISTING CONDENSATE DRAIN TO REMAIN. DISCONNECT FROM EXISTING UNIT. COORDINATE WITH EC TO DISCONNECT POWER.
- D43 EXISTING EXHAUST AIR GRILLE, EXHAUST AIR DUCTWORK, AND ALL ASSOCIATED ACCESSORIES UP TO POWERED ROOF EXHAUST ON ROOF TO REMAIN.

DEMO KEYNOTE LEGEND (ALT.)

- AD7 REMOVE EXISTING SPACE TEMPERATURE SENSOR, CONTROLS, AND ALL ASSOCIATED ACCESSORIES.
- AD10 REMOVE EXISTING FLOOR MOUNTED UNIT VENTILATOR, HOT WATER SUPPLY AND RETURN PIPING CONNECTIONS TO UNIT, VALVES, CONTROLS, AND ALL ASSOCIATED ACCESSORIES. REMOVE EXISTING LOUVER AND DUCTWORK SLEEVE BETWEEN UNIT VENTILATOR AND LOUVER. COORDINATE WITH GC FOR WALL INFILL. COORDINATE WITH EC TO DISCONNECT POWER.
- AD11 REMOVE EXISTING EXHAUST AIR DUCTWORK AND ALL ASSOCIATED ACCESSORIES ABOVE CEILING UP TO POWERED ROOF EXHAUST ON ROOF.
- AD12 REMOVE EXISTING HOT WATER SUPPLY AND RETURN PIPING, VALVES, AND ALL ASSOCIATED ACCESSORIES UP TO UNIT VENTILATOR ON FLOOR ABOVE. REMOVE PIPING BACK TO POINT OF DISCONNECTION AS SHOWN.
- AD13 REMOVE EXISTING EXHAUST AIR GRILLE, EXHAUST AIR DUCTWORK AND ALL ASSOCIATED ACCESSORIES UP TO POWERED ROOF EXHAUST ON ROOF.
- AD18 REMOVE EXISTING 24"X48" RETURN GRILLE IN CEILING.

KEY PLAN:

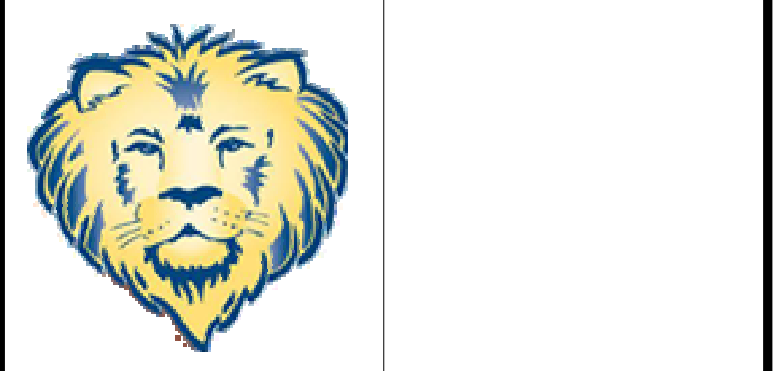
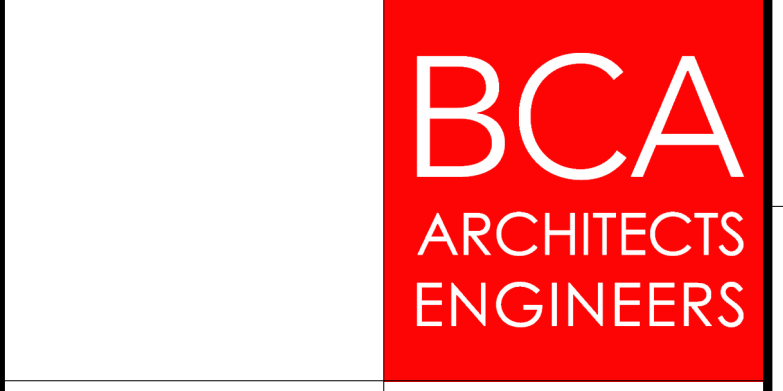


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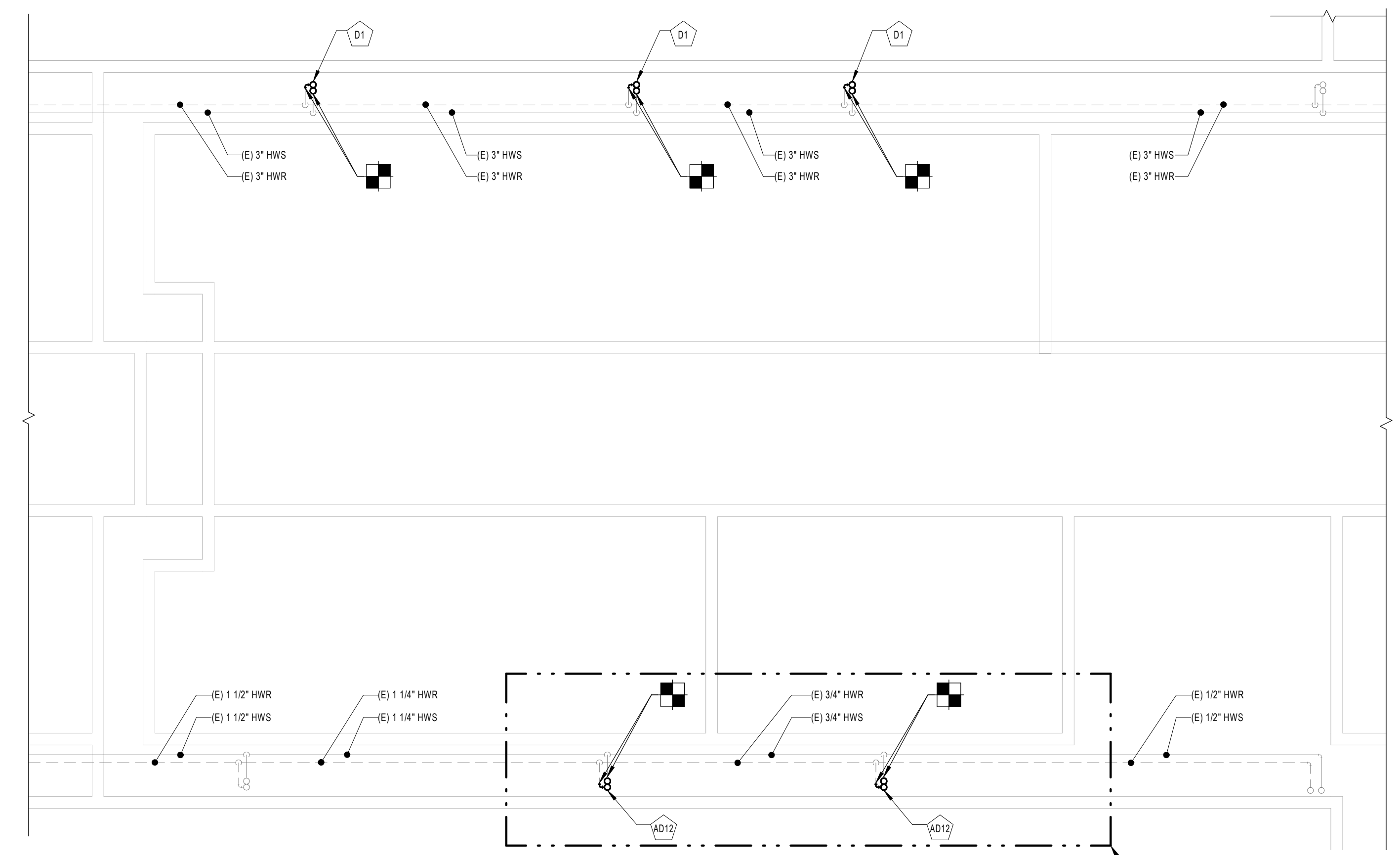
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FIRST FLOOR DEMOLITION PLAN - AREA C AND D

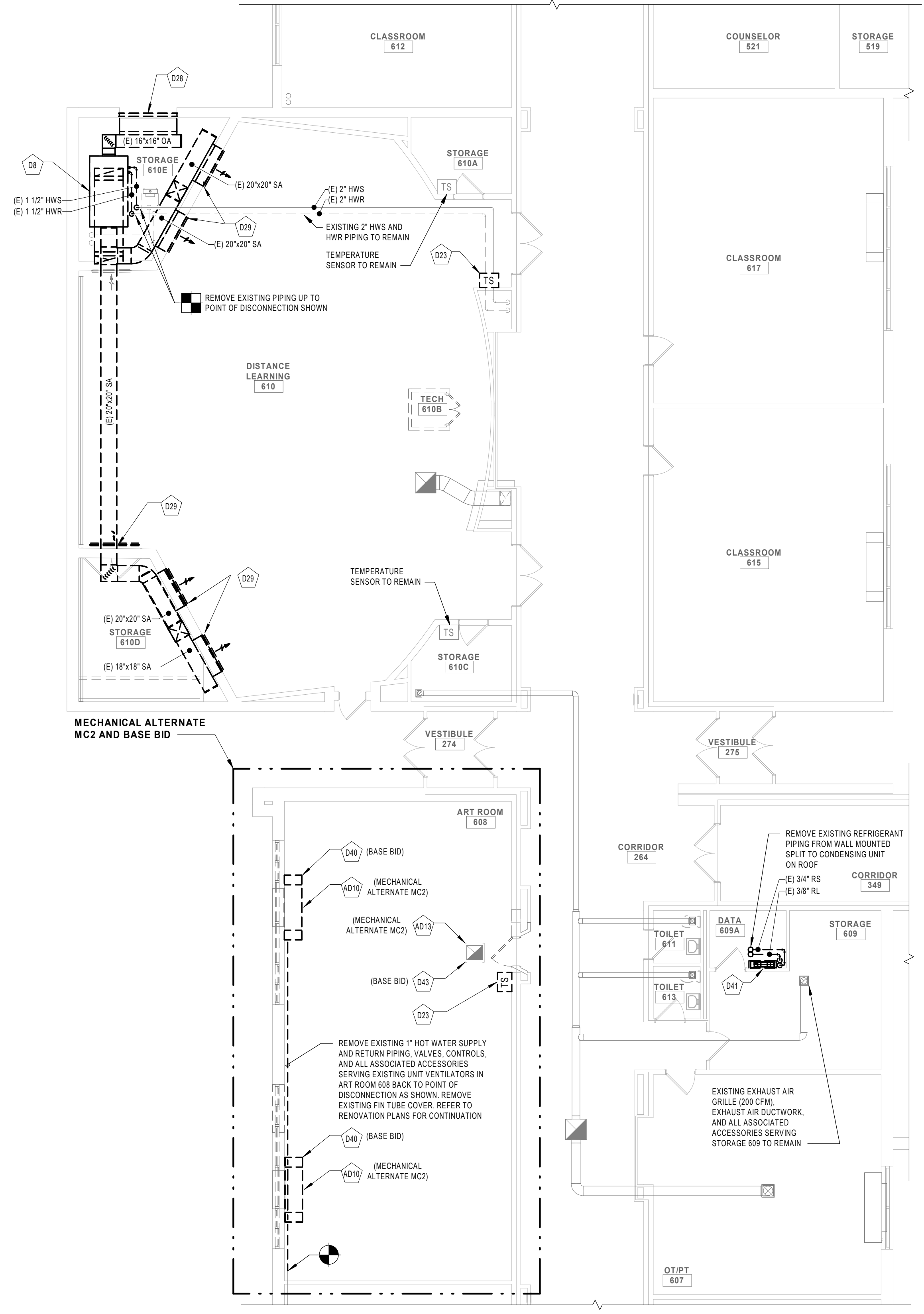
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BUILDING NUMBER HS	SHEET NUMBER MD103
BID	



2 FIRST FLOOR DEMOLITION PLAN - AREA D
SCALE: 1/8" = 1'-0"



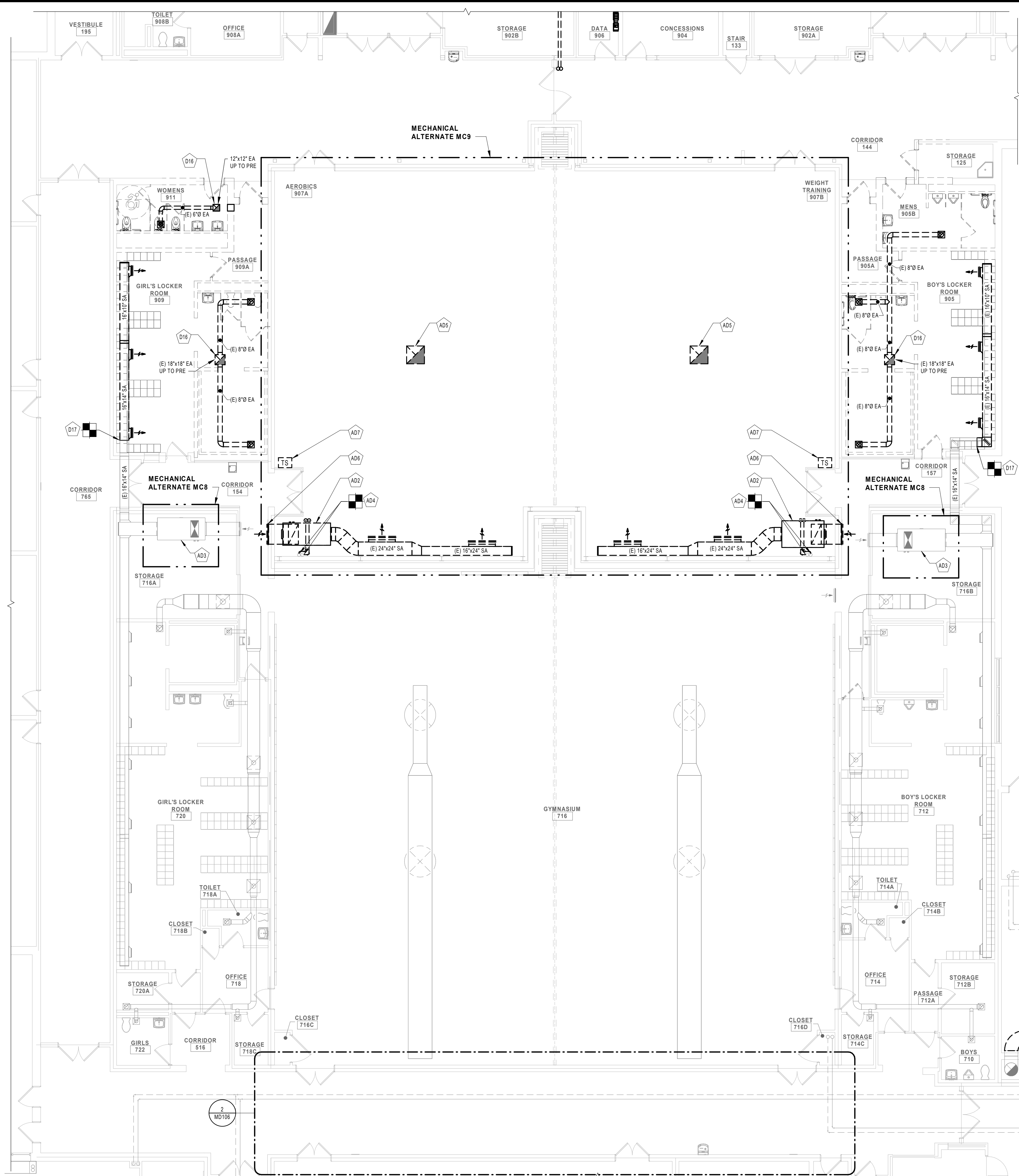
3 BASEMENT DEMOLITION PLAN - AREA D
SCALE: 1/8" = 1'-0"



1 FIRST FLOOR DEMOLITION PLAN - AREA C
SCALE: 1/8" = 1'-0"

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1 FIRST FLOOR DEMOLITION PLAN - AREA E
SCALE: 1/8" = 1'-0"

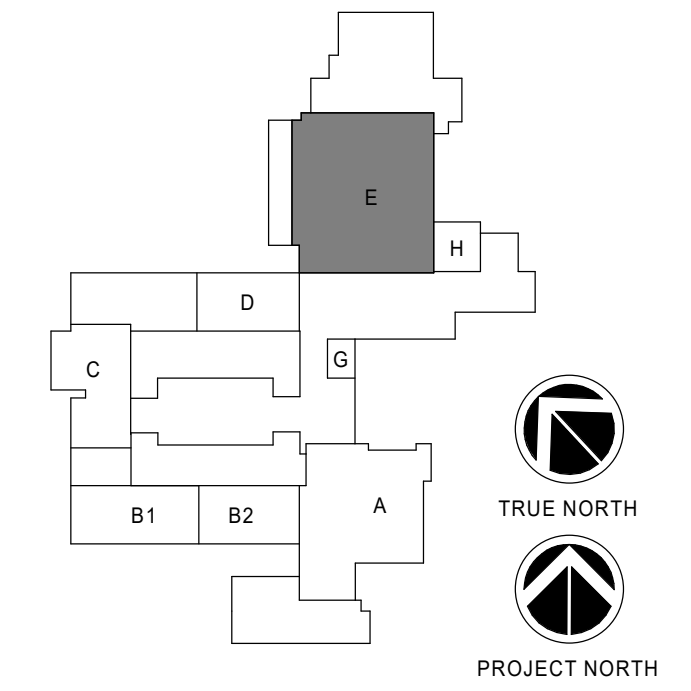
GENERAL NOTES:

- SEE DRAWING M500 FOR GENERAL NOTES, ABBREVIATIONS, SYMBOLS AND LEGENDS
- DEMOLITION KEYNOTE LEGEND**
- D16 REMOVE EXISTING EXHAUST AIR DUCTWORK SYSTEM, CEILING GRILLES, AND ALL ASSOCIATED ACCESSORIES SERVING LOCKER ROOM SPACE. REMOVE EXISTING EXHAUST AIR DUCTWORK RISER UP TO POWERED ROOF EXHAUST ON ROOF.
 - D17 REMOVE EXISTING SUPPLY AIR DUCTWORK SYSTEM, DUCT MOUNTED GRILLES, AND ALL ASSOCIATED ACCESSORIES SERVING LOCKER ROOM SPACE BACK TO POINT OF DISCONNECTION AS SHOWN. REFER TO RENOVATION PLANS FOR CONTINUATION.

DEMO KEYNOTE LEGEND (ALT.)

- AD2 REMOVE EXISTING AIR HANDLING UNIT, DUCTWORK CONNECTIONS TO UNIT, HOT WATER SUPPLY AND RETURN PIPING CONNECTIONS TO UNIT, VALVES, CONTROLS, AND ALL ASSOCIATED ACCESSORIES. COORDINATE WITH EC TO DISCONNECT POWER.
- AD3 TEMPORARILY DISCONNECT EXISTING AIR HANDLING UNIT. DISCONNECT HOT WATER SUPPLY AND RETURN PIPING CONNECTIONS TO UNIT. DISCONNECT DUCTWORK SYSTEM CONNECTIONS TO UNIT. COORDINATE WITH EC TO DISCONNECT POWER. UNITS ARE TO BE RELOCATED AS SHOWN ON M104.
- AD4 REMOVE EXISTING 1-1/4" HWS AND HW/R PIPING CONNECTIONS TO AIR HANDLING UNIT, AND ALL ASSOCIATED VALVES BACK TO EXISTING 1-1/4" HWS AND HW/R DROPS. REMOVE PIPING BACK TO POINT OF DISCONNECTION AS SHOWN. REFER TO RENOVATION PLANS FOR CONTINUATION.
- AD5 REMOVE EXISTING RELIEF AIR DUCTWORK AND ALL ASSOCIATED ACCESSORIES UP TO STATIONARY ROOF VENTILATOR ON ROOF.
- AD6 REMOVE EXISTING LOUVER, DUCTWORK, AND ALL ASSOCIATED ACCESSORIES COORDINATE WITH GC FOR WALL INFILL.
- AD7 REMOVE EXISTING SPACE TEMPERATURE SENSOR, CONTROLS, AND ALL ASSOCIATED ACCESSORIES.

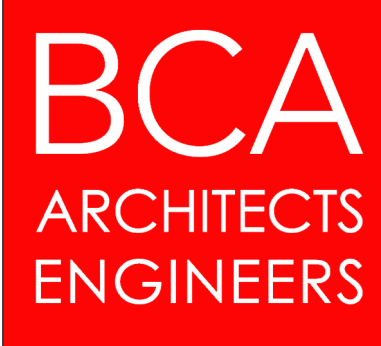
KEY PLAN:



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CHECKED BY JLM	DATE 12/16/2024

FIRST FLOOR DEMOLITION PLAN - AREA E

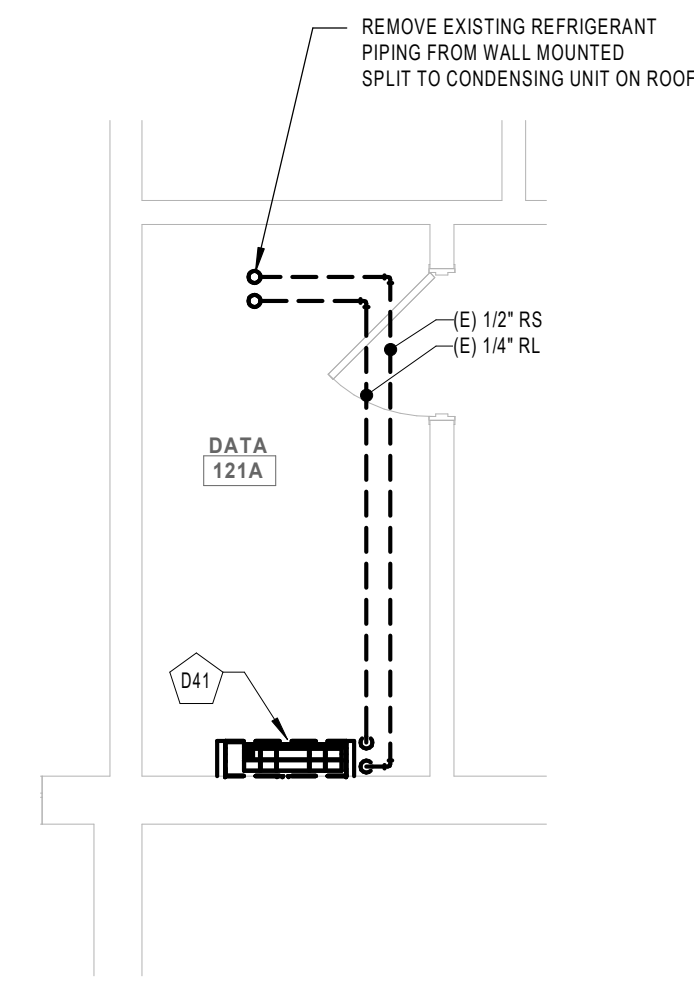
BUILDING NUMBER HS	SHEET NUMBER MD104 BID
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GENERAL NOTES:

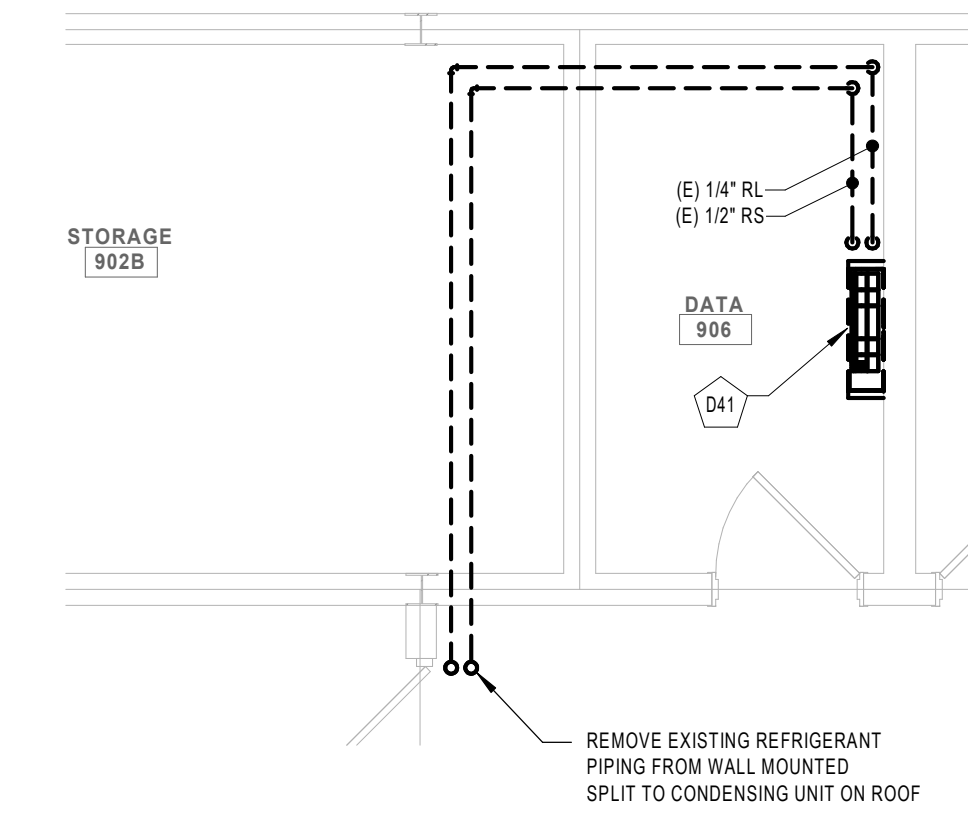
- SEE DRAWING MS000 FOR GENERAL NOTES, ABBREVIATIONS, SYMBOLS AND LEGENDS

DEMOLITION KEYNOTE LEGEND

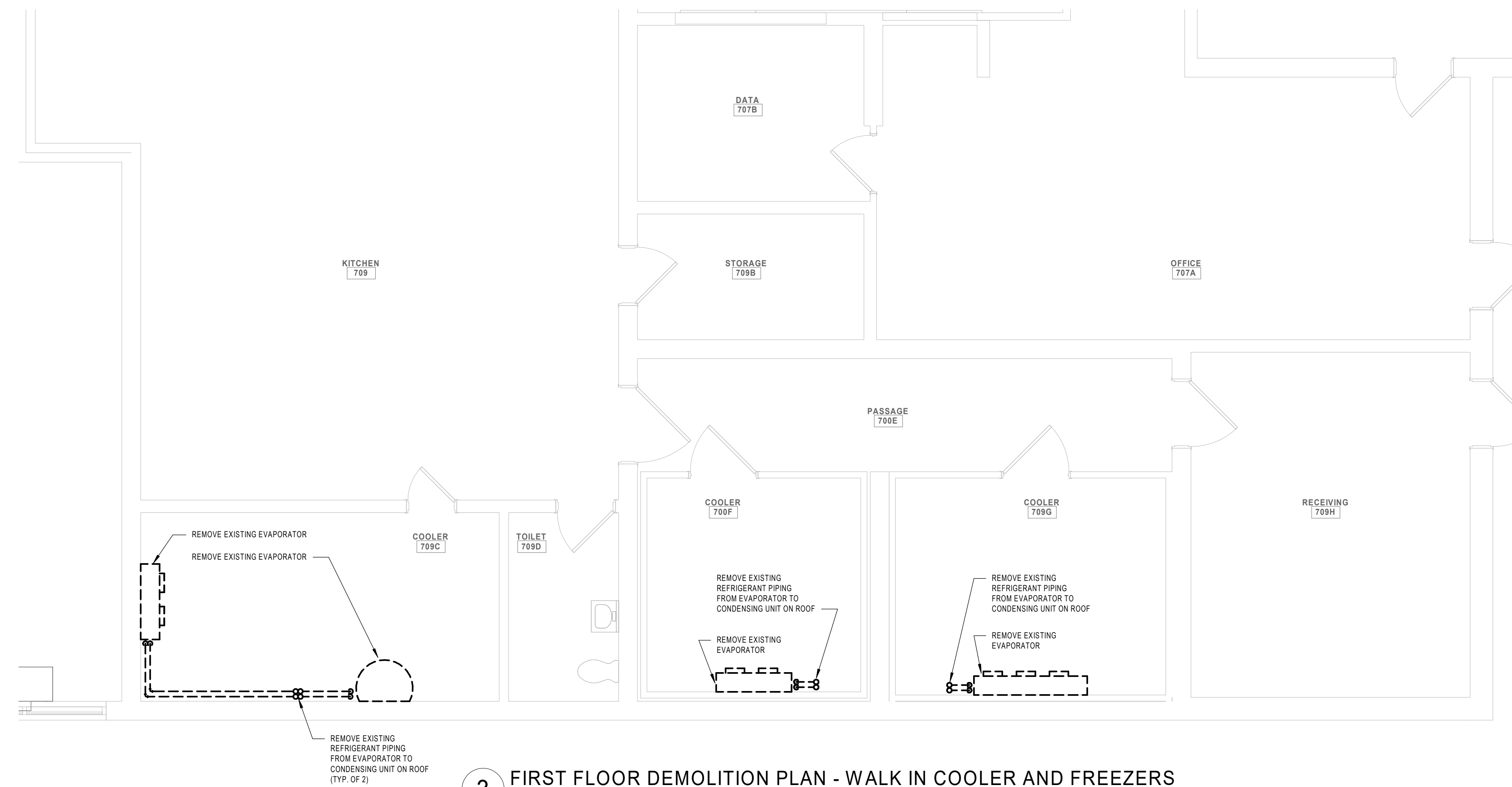
- D41 REMOVE EXISTING WALL MOUNTED COOLING ONLY MINI-SPLIT, REFRIGERATION PIPING, CONTROLS, AND ALL ASSOCIATED ACCESSORIES. EXISTING CONDENSATE DRAIN TO REMAIN. DISCONNECT FROM EXISTING UNIT. COORDINATE WITH EC TO DISCONNECT POWER.



2 FIRST FLOOR DEMOLITION PLAN - DATA 121A
SCALE: 1/4" = 1'-0"

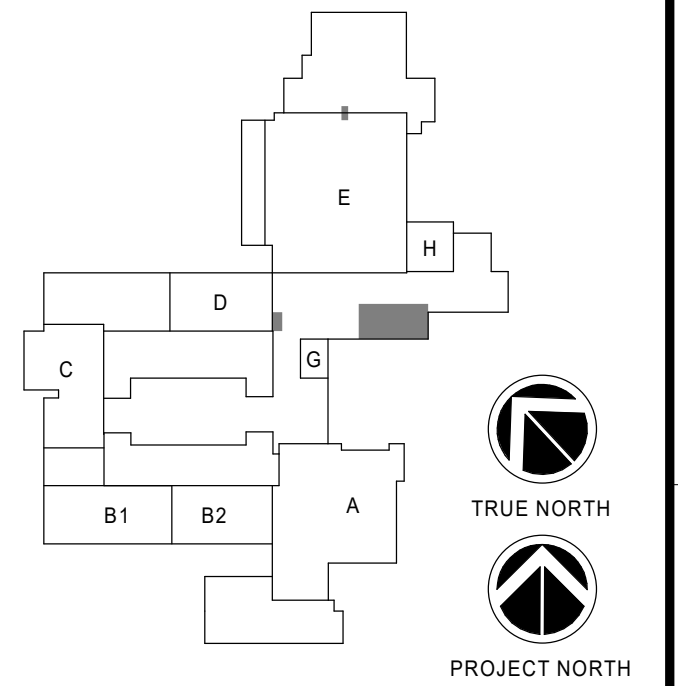


1 FIRST FLOOR DEMOLITION PLAN - DATA 906
SCALE: 1/4" = 1'-0"



3 FIRST FLOOR DEMOLITION PLAN - WALK IN COOLER AND FREEZERS
SCALE: 1/4" = 1'-0"

KEY PLAN:



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FIRST FLOOR DEMOLITION PLAN - DATA CLOSETS AND FREEZERS

BUILDING NUMBER HS	SHEET NUMBER MD105 BID
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GENERAL NOTES:

1. SEE DRAWING M5000 FOR GENERAL NOTES, ABBREVIATIONS, SYMBOLS AND LEGENDS

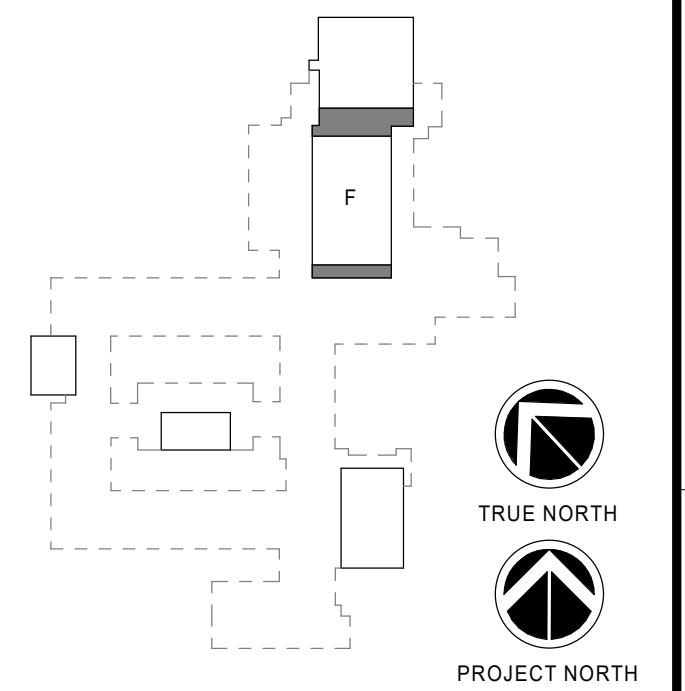
DEMOLITION KEYNOTE LEGEND

D20 REMOVE PORTION OF EXISTING 42"x42" SUPPLY AIR DUCTWORK FROM AIR HANDLING UNIT SERVING GYMNASIUM 902 FOR INSTALLATION OF COOLING COIL. REFER TO RENOVATION PLANS FOR CONTINUATION.

DEMO KEYNOTE LEGEND (ALT.)

AD2 REMOVE EXISTING AIR HANDLING UNIT, DUCTWORK CONNECTIONS TO UNIT, HOT WATER SUPPLY AND RETURN PIPING CONNECTIONS TO UNIT, VALVES, CONTROLS, AND ALL ASSOCIATED ACCESSORIES. COORDINATE WITH ECT TO DISCONNECT POWER.

KEY PLAN:



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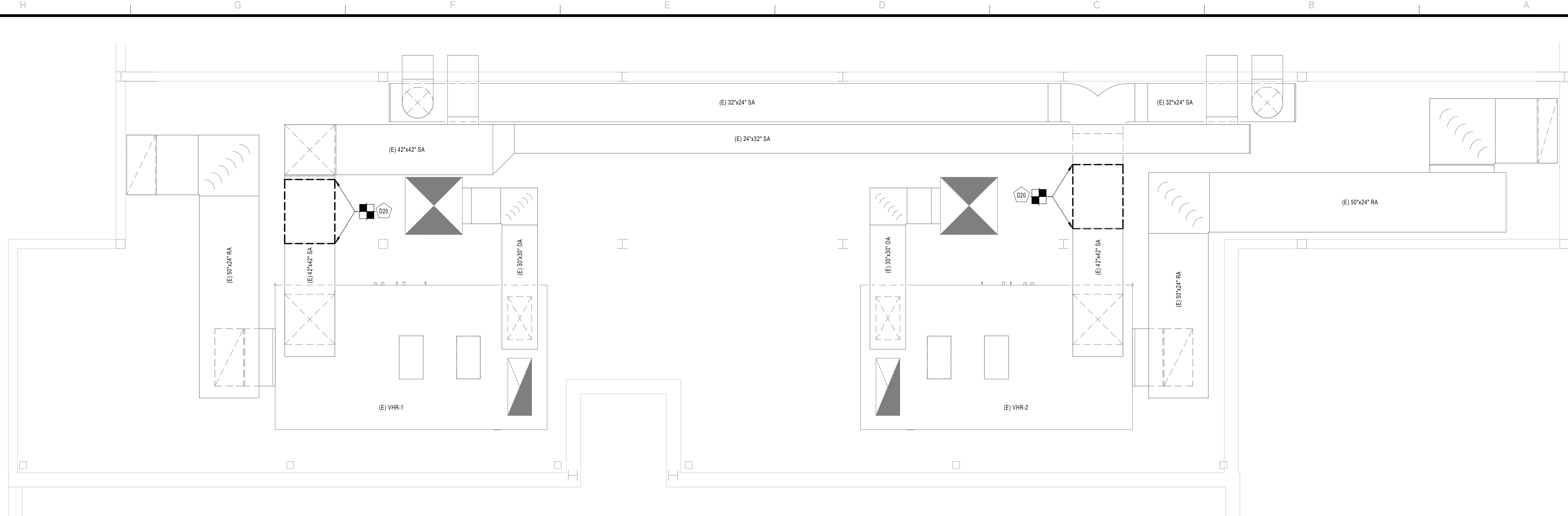
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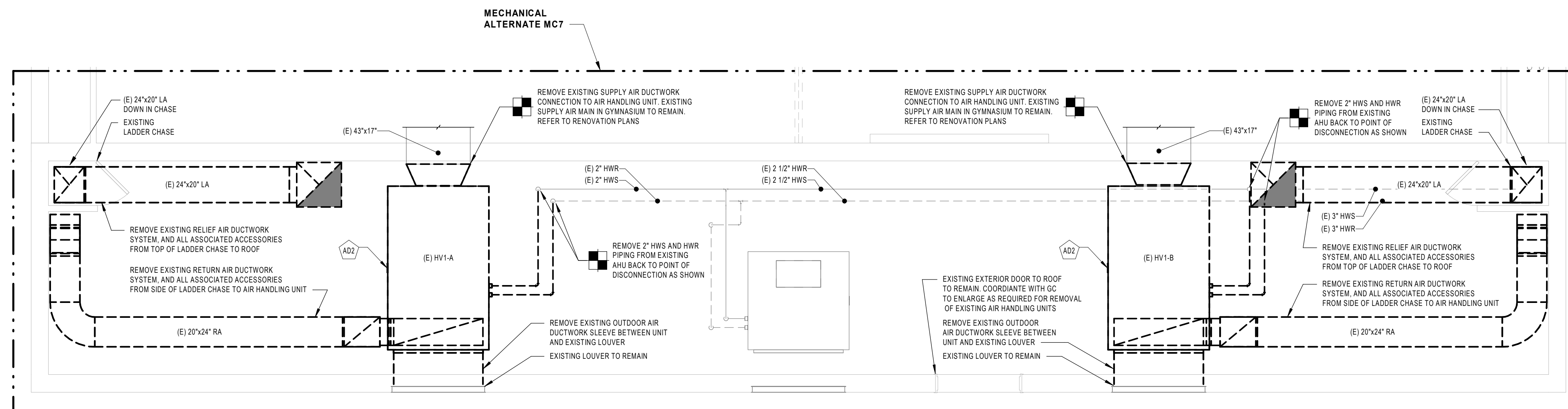
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ENLARGED MEZZANINE
DEMOLITION PLANS

BUILDING NUMBER HS	SHEET NUMBER MD106 BID
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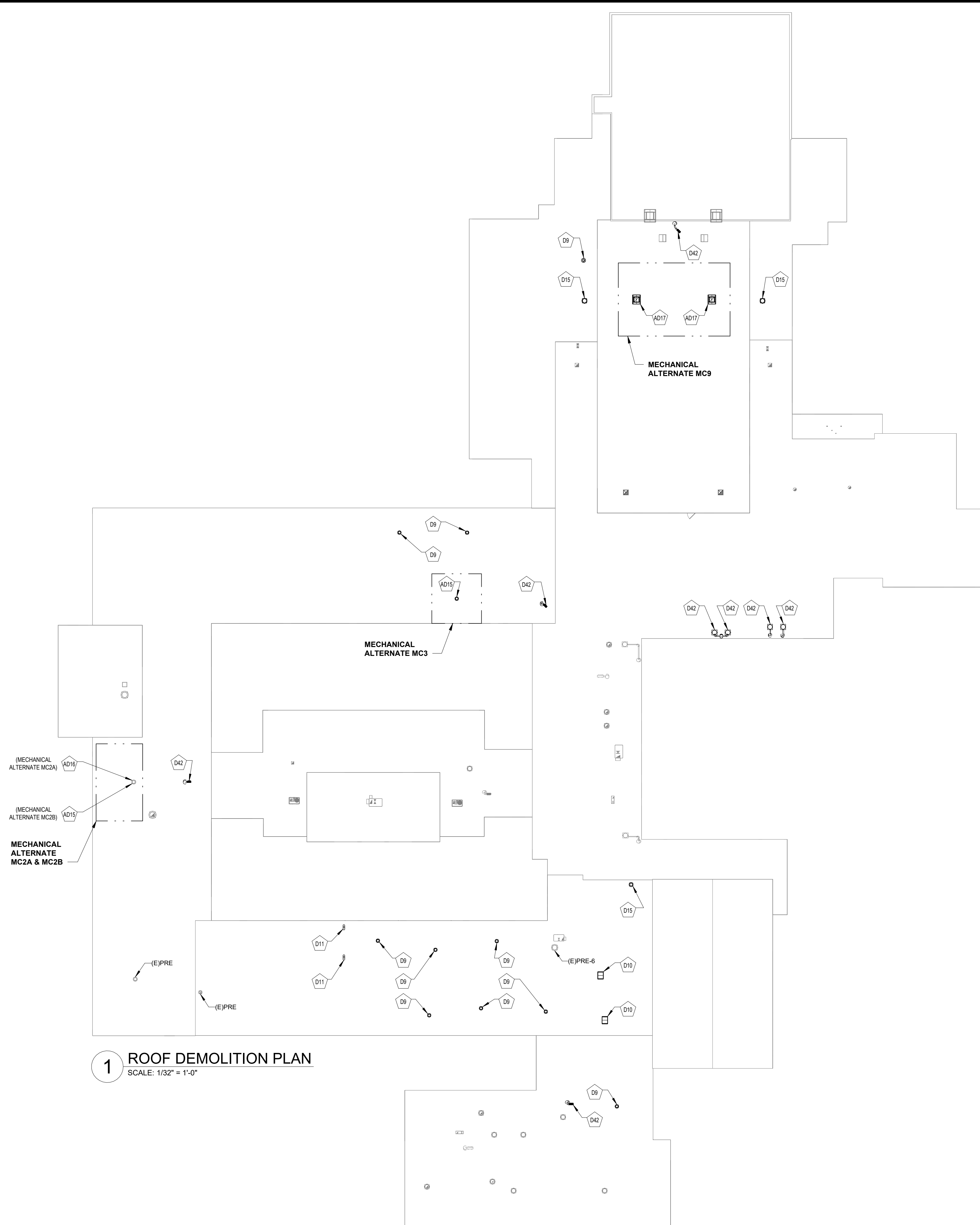


1 ENLARGED GYMNASIUM 902 MEZZANINE DEMOLITON PLAN
SCALE: 1/4" = 1'-0"



2 ENLARGED GYMNASIUM 716 MEZZANINE DEMOLITION PLAN
SCALE: 1/4" = 1'-0"

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1 ROOF DEMOLITION PLAN
SCALE: 1/32" = 1'-0"

GENERAL NOTES:

- SEE DRAWING M500 FOR GENERAL NOTES, ABBREVIATIONS, SYMBOLS AND LEGENDS
- THE MC IS TO COORDINATE WITH THE AAC AND GC FOR ALL PENETRATIONS THROUGH THE EXISTING ROOF DECK. THIS EXISTING ROOF DECK IS SUSPECTED TO BE POSITIVE FOR ASBESTOS.

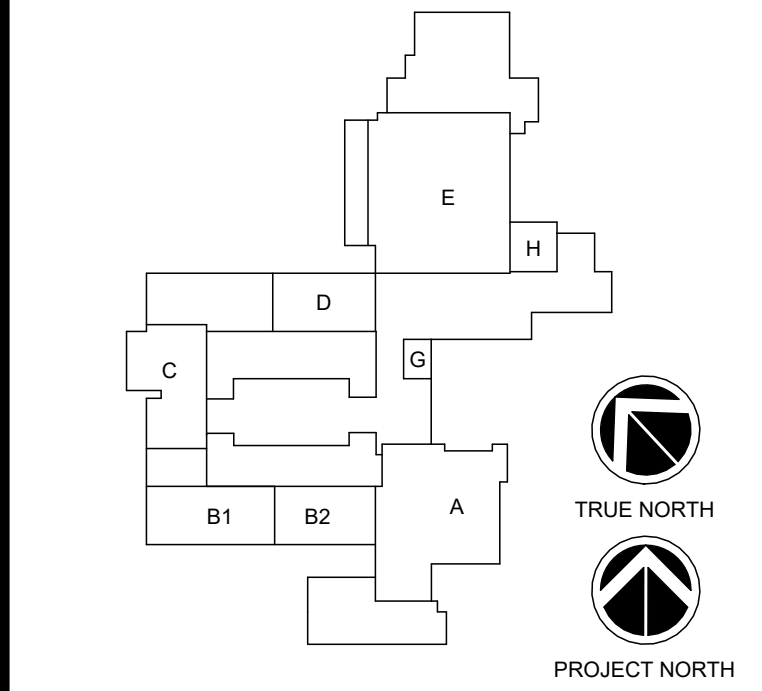
DEMOLITION KEYNOTE LEGEND

- D9 REMOVE EXISTING ROOF MOUNTED POWERED ROOF EXHAUST, DUCTWORK SYSTEM, DAMPERS, CONTROLS, AND ALL ASSOCIATED ACCESSORIES. MC SHALL BE RESPONSIBLE FOR REMOVING POWERED ROOF EXHAUST. GC SHALL BE RESPONSIBLE FOR REMOVING ROOF CURB AND INFILLING ROOF DECK. COORDINATE WITH EC TO DISCONNECT POWER.
- D10 REMOVE EXISTING ROOF INTAKE VENTILATOR, DUCTWORK SYSTEM, AND ALL ASSOCIATED ACCESSORIES. MC SHALL BE RESPONSIBLE FOR REMOVING ROOF CURB AND INFILLING ROOF DECK.
- D11 REMOVE EXISTING GOOSENECK DUCT, DUCTWORK SYSTEM, AND ALL ASSOCIATED ACCESSORIES. MC SHALL BE RESPONSIBLE FOR REMOVING GOOSENECK. GC SHALL BE RESPONSIBLE FOR REMOVING ROOF CURB AND INFILLING ROOF DECK.
- D15 REMOVE EXISTING ROOF MOUNTED POWERED ROOF EXHAUST, DUCTWORK, DAMPERS, CONTROLS, AND ALL ASSOCIATED ACCESSORIES. REMOVE ENTIRE DUCTWORK SYSTEM CONNECTED TO POWERED ROOF EXHAUST. EXISTING ROOF CURB AND ROOF PENETRATION TO REMAIN. PREPARE FOR INSTALLATION OF NEW POWERED ROOF EXHAUST. REFER TO RENOVATION PLANS FOR CONTINUATION. COORDINATE WITH EC TO DISCONNECT POWER.
- D42 REMOVE EXISTING AIR COOLED CONDENSING UNIT, REFRIGERATION PIPING, CONTROLS, AND ALL ASSOCIATED ACCESSORIES. EXISTING OPENING FOR REFRIGERATION PIPING TO REMAIN AND BE REUSED IN RENOVATION WORK FOR PIPE VAULTS. COORDINATE WITH EC TO DISCONNECT POWER.

DEMO KEYNOTE LEGEND (ALT.)

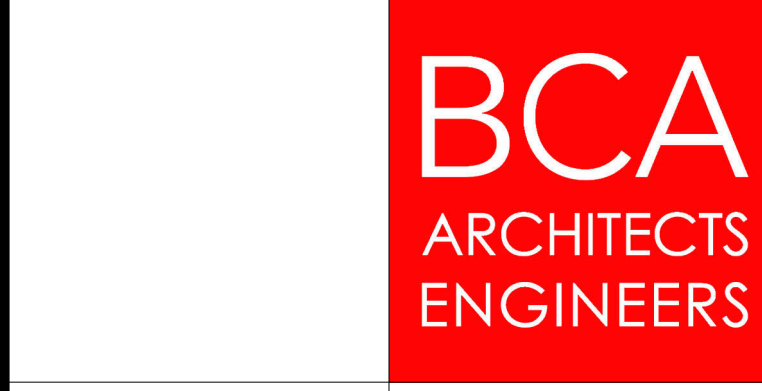
- AD15 REMOVE EXISTING ROOF MOUNTED POWERED ROOF EXHAUST, DUCTWORK SYSTEM, DAMPERS, CONTROLS, AND ALL ASSOCIATED ACCESSORIES. MC SHALL BE RESPONSIBLE FOR REMOVING POWERED ROOF EXHAUST. GC SHALL BE RESPONSIBLE FOR REMOVING ROOF CURB AND INFILLING ROOF DECK. COORDINATE WITH EC TO DISCONNECT POWER.
- AD16 EXISTING ROOF MOUNTED POWERED ROOF EXHAUST, DUCTWORK SYSTEM, DAMPERS, CONTROLS, AND ALL ASSOCIATED ACCESSORIES TO REMAIN.
- AD17 REMOVE EXISTING STATIONARY ROOF VENTILATOR, DUCTWORK SYSTEM, DAMPERS, CONTROLS, AND ALL ASSOCIATED ACCESSORIES. MC SHALL BE RESPONSIBLE FOR REMOVING STATIONARY ROOF VENTILATOR. GC SHALL BE RESPONSIBLE FOR REMOVING ROOF CURB AND INFILLING ROOF DECK.

KEY PLAN:



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CHECKED BY: JLM DATE: 12/16/2024

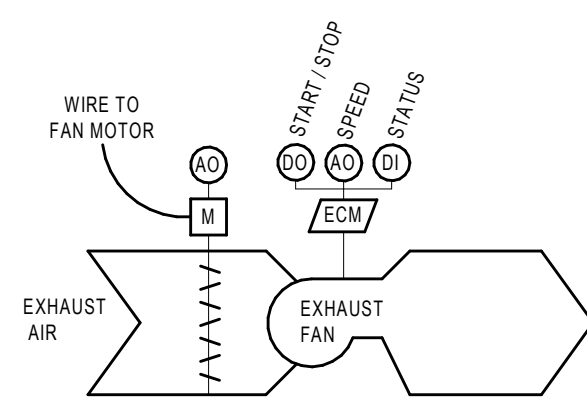
ROOF DEMOLITION PLAN
BUILDING NUMBER: HS SHEET NUMBER: MD107
BID

UNIT HEATER SCHEDULE (UH)																								
ID	LOCATION				TYPE	FAN				HEATING COIL				HEATING PLANT			PH	NOTES						
	NAME	NO.	MANUFACTURER	MODEL NO.		AIRFLOW	QTY	POWER	CAP	EAT(0)	LAT(0)	FLOW	EWT	LWT	PD	TYPE			%	UNIT WEIGHT	FLA	MCA		
UH-1	MECH	114	STERLING	HSB02411	HORIZONTAL	380 CFM	1	0.02 hp	12300 Btu/h	60.0 °F	90.0 °F	1.34 GPM	180 °F	160 °F	0.008 #/420	PG	40	30 lb	0.8 A	1.0 A	15.0 A	115 V	1	1,2,3

NOTES:
 1. INSTALL AS PER UNIT MANUFACTURERS RECOMMENDATIONS
 2. PROVIDE WITH FACTORY MOUNTED DISCONNECT SWITCH
 3. MOUNT UNIT FROM EXISTING DECK SYSTEM WITH VIBRATION ISOLATORS

FAN SCHEDULE (EF)																					
ID	LOCATION				TYPE	FAN				MOTOR			SOUND PRESS LEVEL (dBA)	UNIT WEIGHT	FLA	MCA	MOCP	VOLT	PH	NOTES	
	NAME	NO.	MANUFACTURER	MODEL NO.		AIRFLOW	VELOCITY	PRESS	RPM	DRIVE TYPE	QTY	POWER									ECM
EF-1	MECH	114	GREENHECK	SQ-120-VG	INLINE	1000 CFM	381 FPM	0.375 #/sq	1148	DIRECT	1	0.50 hp	Yes	53	51 lb	6.6 A	8.2 A	15.0 A	115 V	1	1,2,3,4

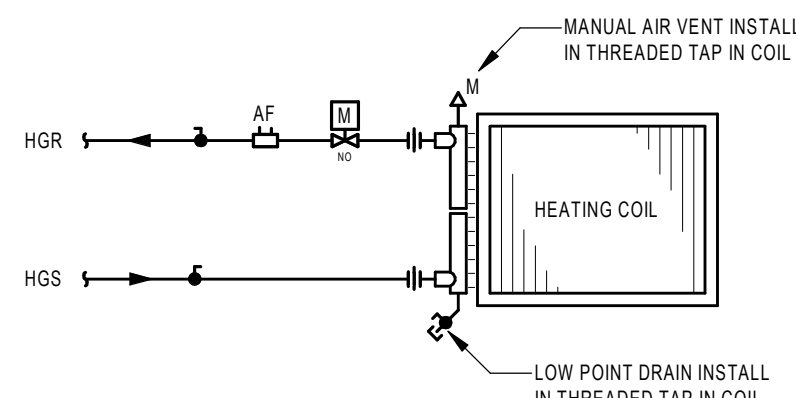
NOTES:
 1. INSTALL AS PER UNIT MANUFACTURERS RECOMMENDATIONS
 2. PROVIDE WITH FACTORY MOUNTED DISCONNECT SWITCH
 3. PROVIDE WITH ECM MOTOR WITH 0-10V INPUT FOR CONTROL AND SPEED SWITCH FOR BALANCING
 4. MOUNT UNIT FROM EXISTING DECK SYSTEM WITH VIBRATION ISOLATORS



EXHAUST FAN - CONSTANT SPEED - SEQUENCE OF OPERATIONS:
 INTERLOCK THE OPERATION OF THE EXHAUST FANS AND AUTOMATIC DAMPERS WITH THEIR RESPECTIVE HEATING AND COOLING EQUIPMENT.

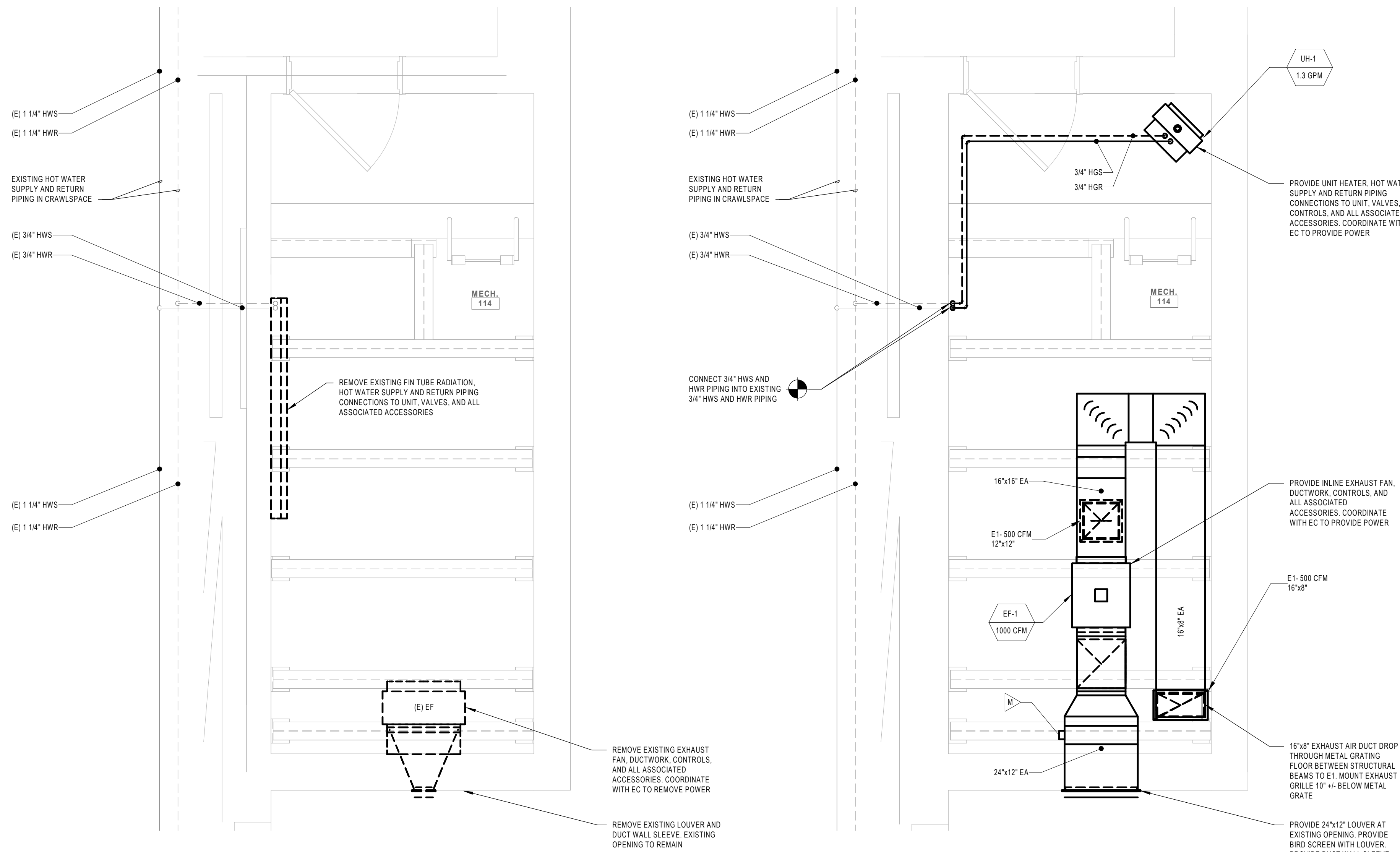
- OCCUPIED MODE:
 - A. THE EXHAUST FAN SHALL RUN CONTINUOUSLY AND THE AUTOMATIC AIR DAMPER SHALL OPEN.
- UNOCCUPIED MODE:
 - A. THE EXHAUST FAN SHALL BE OFF AND THE AUTOMATIC AIR DAMPER SHALL BE CLOSED.
- WARM-UP MODE:
 - A. THE EXHAUST FAN SHALL BE OFF AND THE AUTOMATIC AIR DAMPER SHALL BE CLOSED.
- SAFETIES:
 - A. UPON A FAILURE OF THE FAN, AS SENSED BY A CURRENT SENSING STATUS SWITCH, AN ALARM SHALL BE ACTIVATED.

3 EXHAUST FAN - CONSTANT SPEED (EF-1)
 SCALE: NOT TO SCALE



NOTE:
 1. WHERE COIL IS SUPPLIED FROM OVERHEAD PIPING, PROVIDE MANUAL AIR VENT AT HIGH POINT IN HOT WATER PIPING.
 2. SIZE CONTROL VALVE CV TO MATCH PRESSURE DROP OF COIL AT DESIGN FLOW.

4 HOT WATER HEATING COIL PIPING SCHEMATIC (UH-1)
 SCALE: NOT TO SCALE



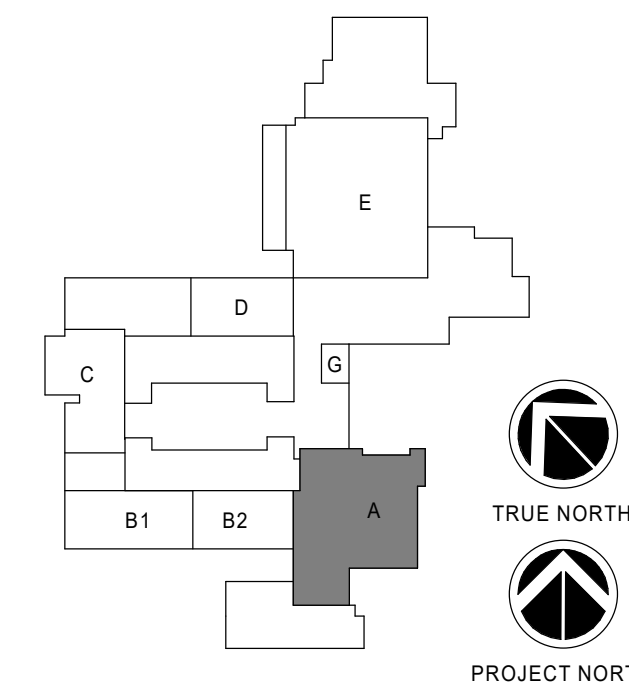
2 MECHANICAL PIT - DEMOLITION PLAN
 SCALE: 1/2" = 1'-0"

1 MECHANICAL PIT - HVAC PLAN
 SCALE: 1/2" = 1'-0"

GENERAL NOTES:

- SEE DRAWING MS000 FOR GENERAL NOTES, ABBREVIATIONS, SYMBOLS AND LEGENDS

KEY PLAN:

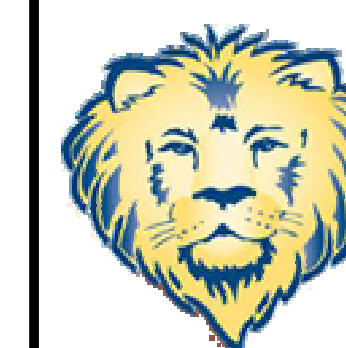


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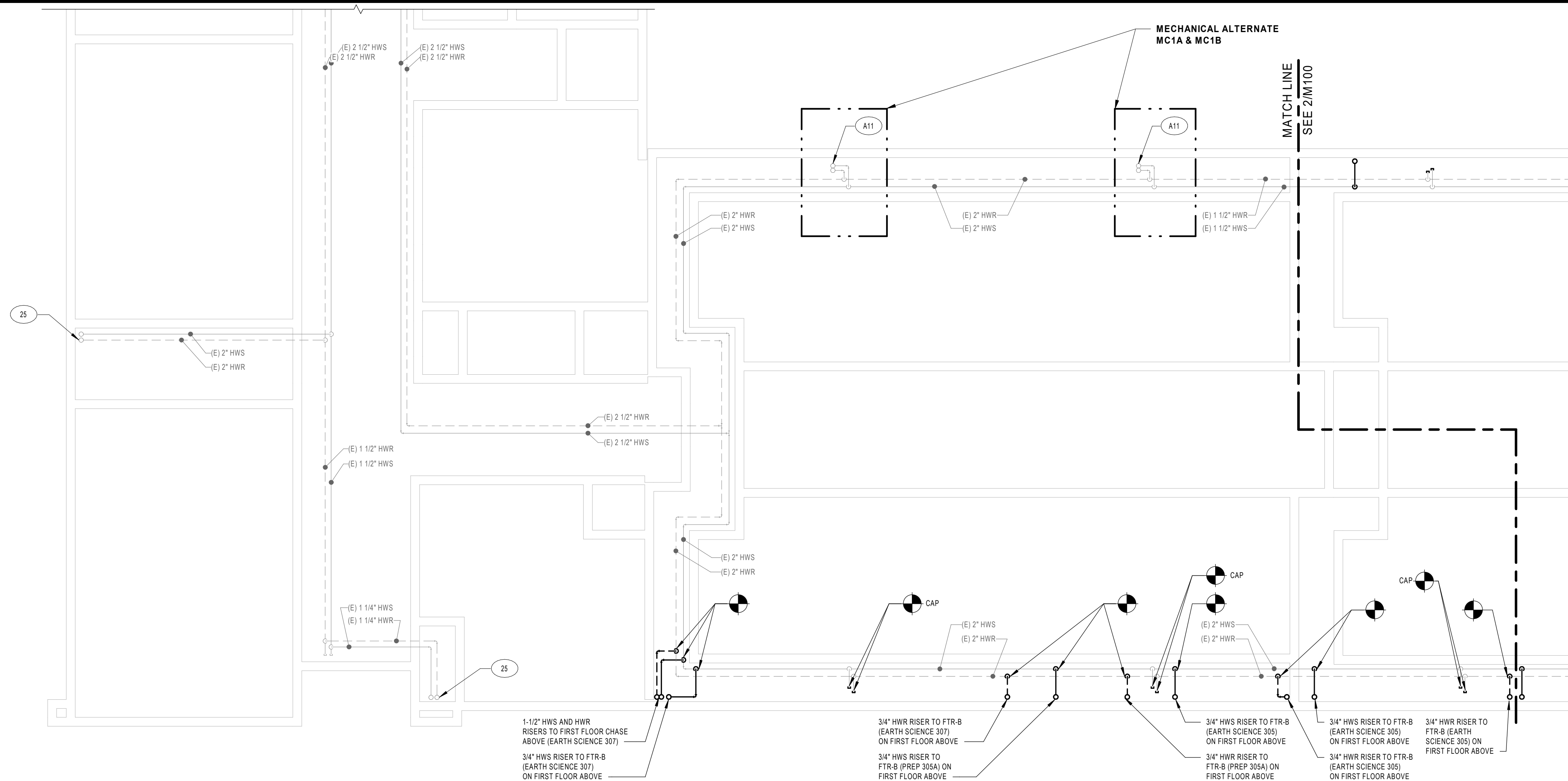
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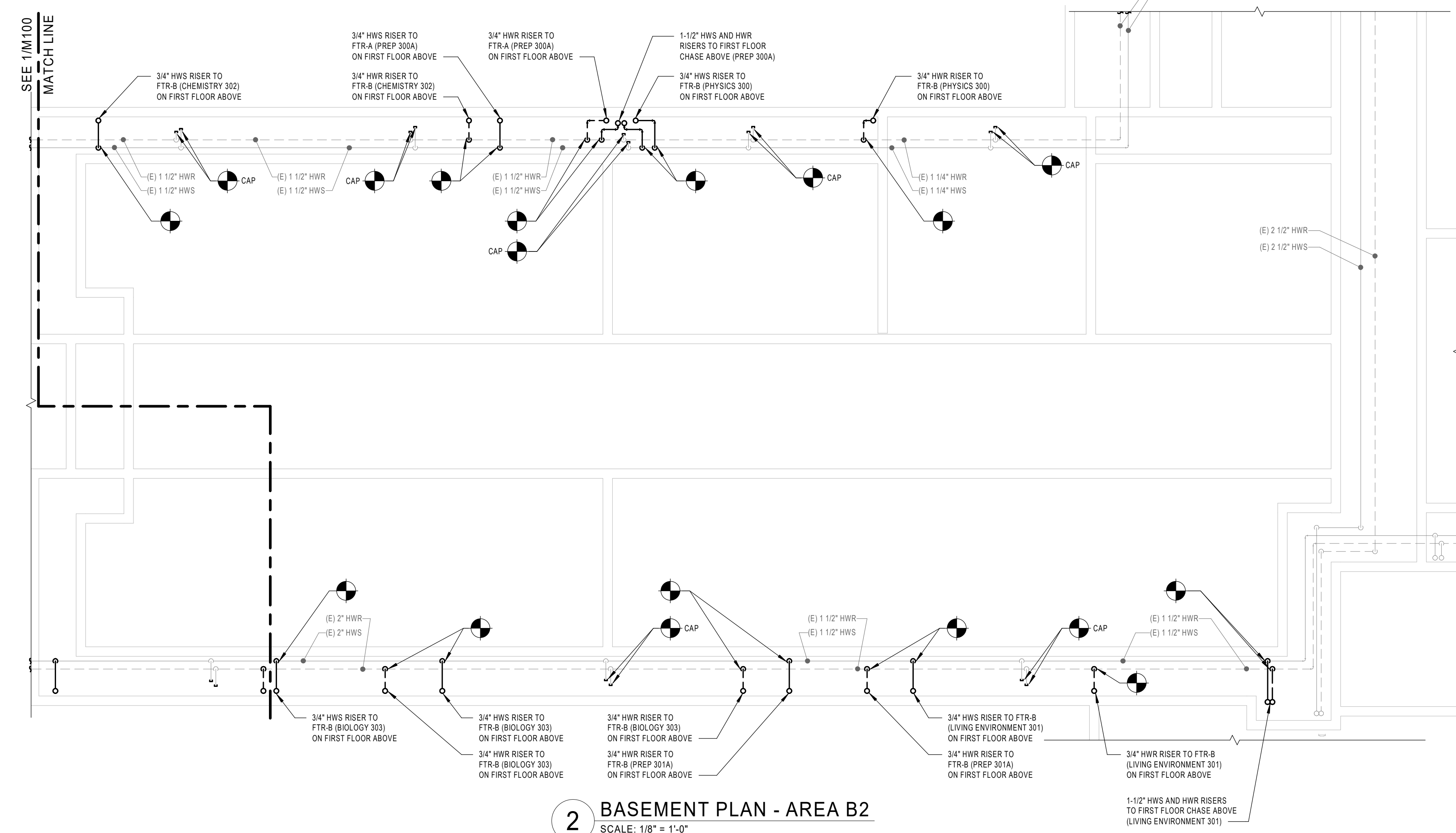
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REV	DATE	DESCRIPTION

DRAWN BY: JVG/DK PROJECT NUMBER: 2023-105
 CHECKED BY: JLM DATE: 12/16/2024
MECHANICAL PLANS, DETAILS, SCHEMATICS, AND SCHEDULES
 BUILDING NUMBER: HS SHEET NUMBER: 1A-M100
 BID



1 BASEMENT PLAN - AREA B1
SCALE: 1/8" = 1'-0"

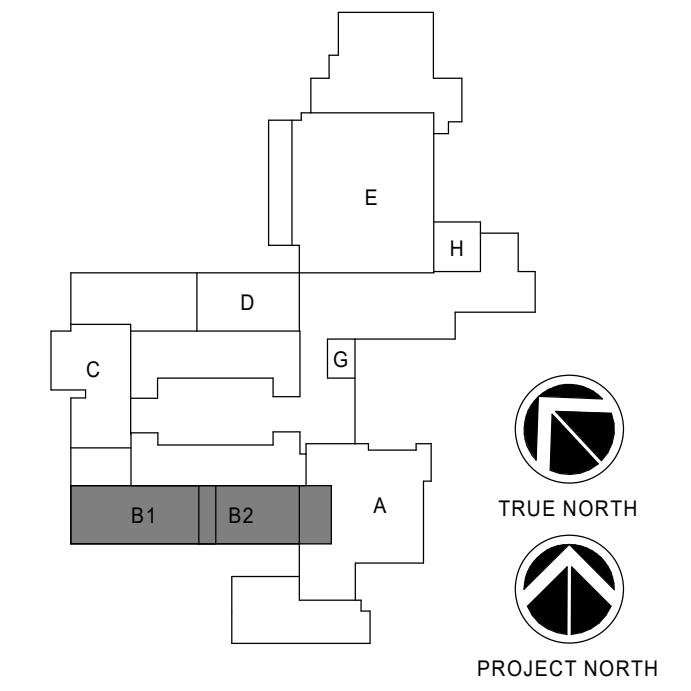


2 BASEMENT PLAN - AREA B2
SCALE: 1/8" = 1'-0"

GENERAL NOTES:

- SEE DRAWING M5000 FOR GENERAL NOTES, ABBREVIATIONS, SYMBOLS AND LEGENDS
- KEYNOTE LEGEND**
- EXISTING HOT WATER SUPPLY AND RETURN RISERS TO FIRST FLOOR EQUIPMENT ABOVE TO REMAIN. RECONNECT UNIT VENTILATOR AT FIRST FLOOR LEVEL.
- KEYNOTE LEGEND (ALT.)**
- EXISTING HOT WATER SUPPLY AND RETURN RISERS TO FIRST FLOOR EQUIPMENT ABOVE TO REMAIN. RECONNECT UNIT VENTILATOR AT FIRST FLOOR LEVEL.

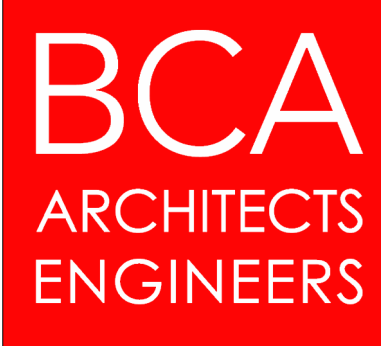
KEY PLAN:



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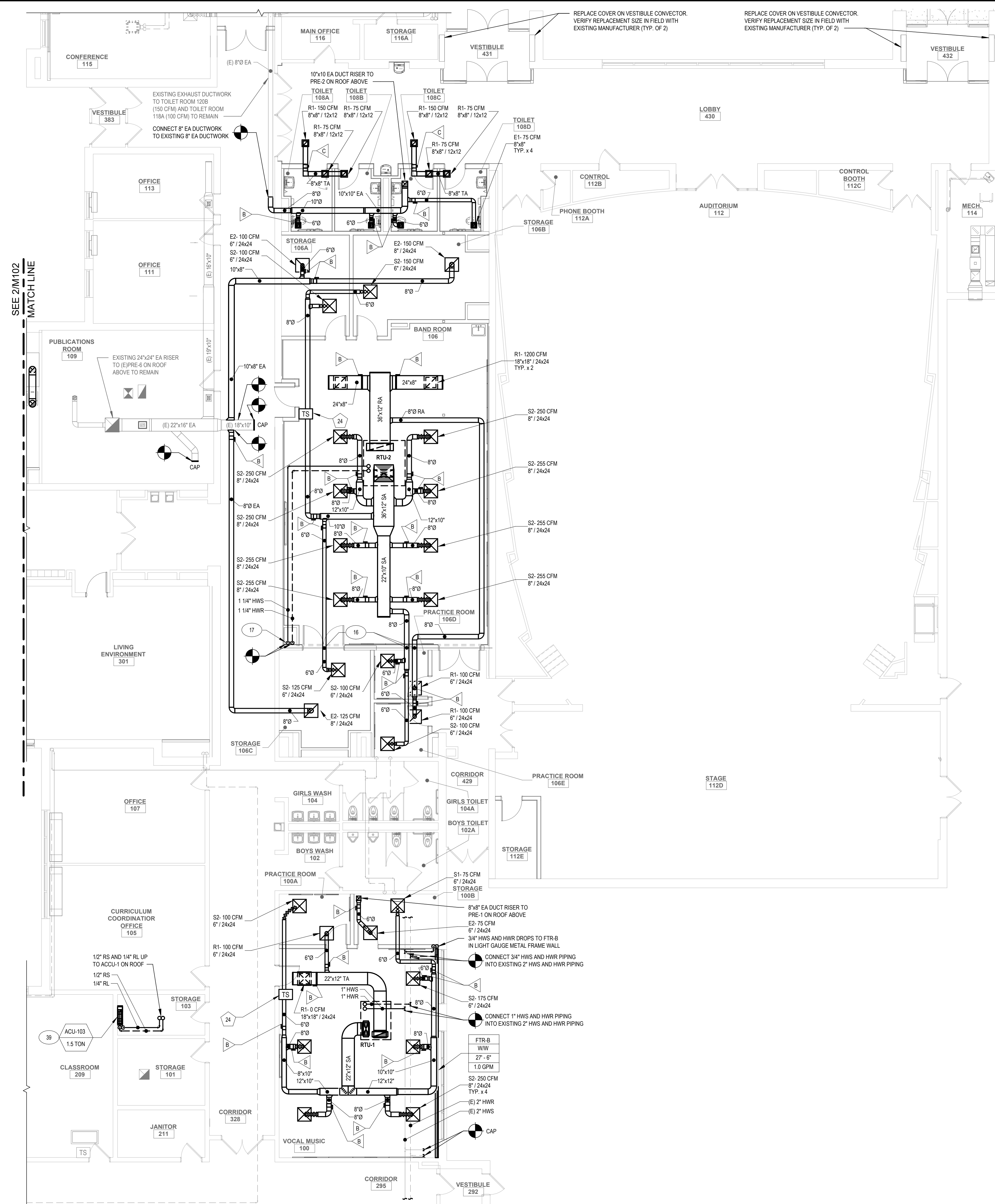
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CHECKED BY JLM	DATE 12/16/2024

BASEMENT PLAN - AREA B1 AND B2

BUILDING NUMBER HS	SHEET NUMBER M100 BID
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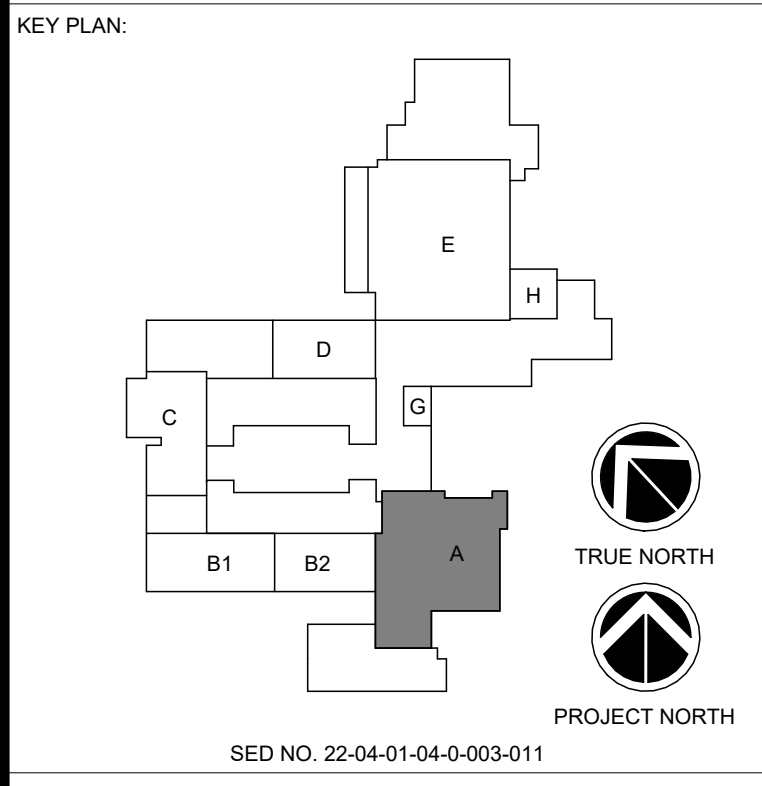
12/17/2024 11:37:43 AM



1 FIRST FLOOR PLAN - AREA A
SCALE: 1/8" = 1'-0"

GENERAL NOTES:

- SEE DRAWING M100 FOR GENERAL NOTES, ABBREVIATIONS, SYMBOLS AND LEGENDS
- KEYNOTE LEGEND**
- ROUTE DUCTWORK ABOVE EXISTING BEAM LOCATED IN WALL SEPARATING BAND ROOM 106 AND STORAGE 106/PRACTICE ROOM 106D. VERIFY IN FIELD REQUIRED HEIGHT ABOVE CEILING FOR ROUTING.
 - CONNECT 1-1/4" HWS AND HWR PIPING INTO EXISTING 1-1/4" HWS AND HWR PIPING DROPS AT POINT OF CONNECTION AS SHOWN. CONNECT 1-1/4" HWS AND HWR PIPING AND ALL ASSOCIATED VALVES UP TO ROOF TOP UNIT.
 - PROVIDE SPACE TEMPERATURE SENSOR CONTROLS, AND ALL ASSOCIATED ACCESSORIES. INSTALL PER MANUFACTURERS RECOMMENDATIONS.
 - PROVIDE WALL MOUNTED COOLING ONLY MINI SPLIT, REFRIGERATION PIPING, CONTROLS, AND ALL ASSOCIATED ACCESSORIES. PROVIDE SUPPORTS TO MOUNT UNIT TO WALL. THE UNIT BACK INTO EXISTING CONDENSATE DRAIN. COORDINATE WITH EC TO PROVIDE POWER. INSTALL PER MANUFACTURERS RECOMMENDATIONS.



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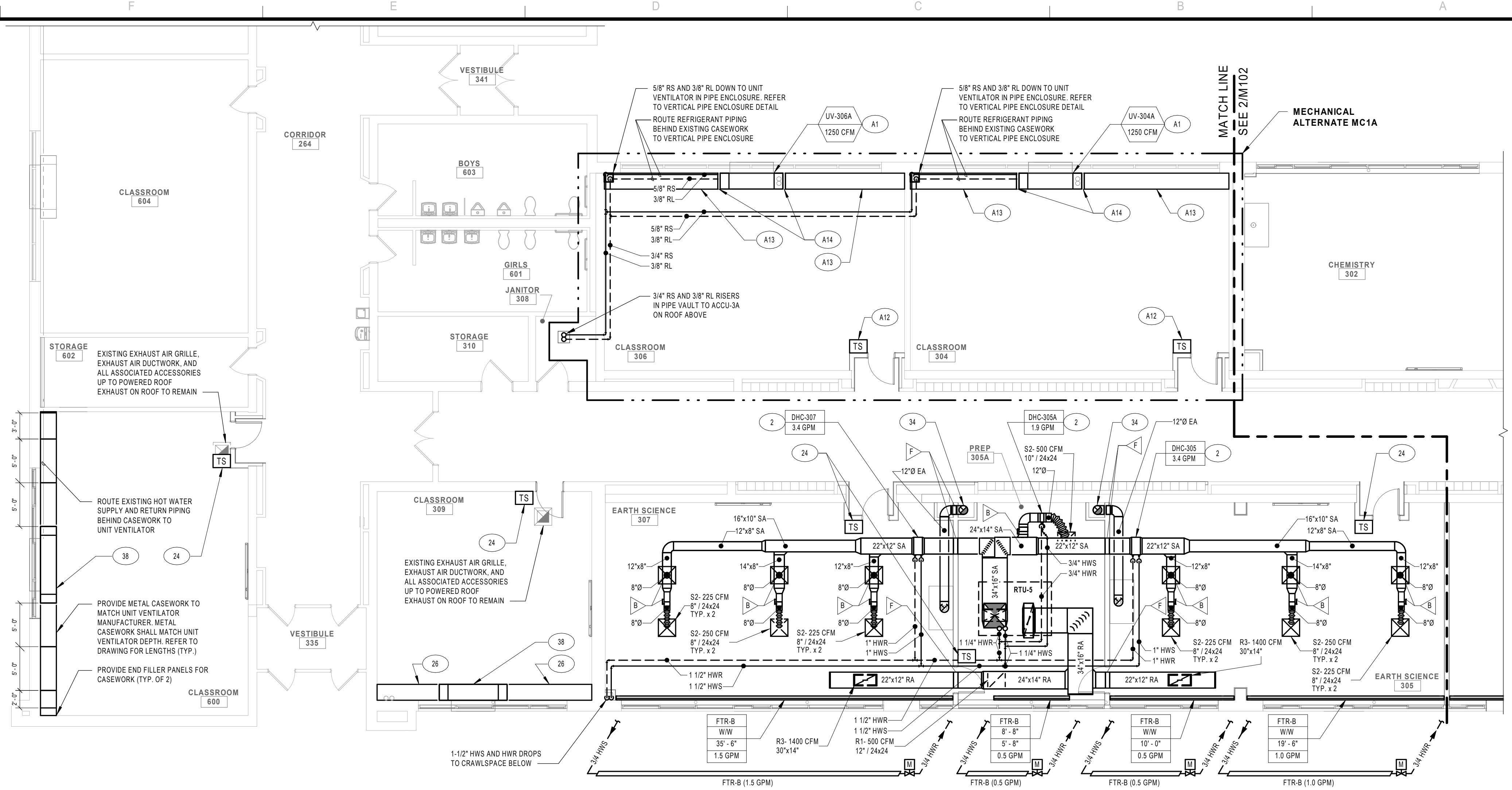
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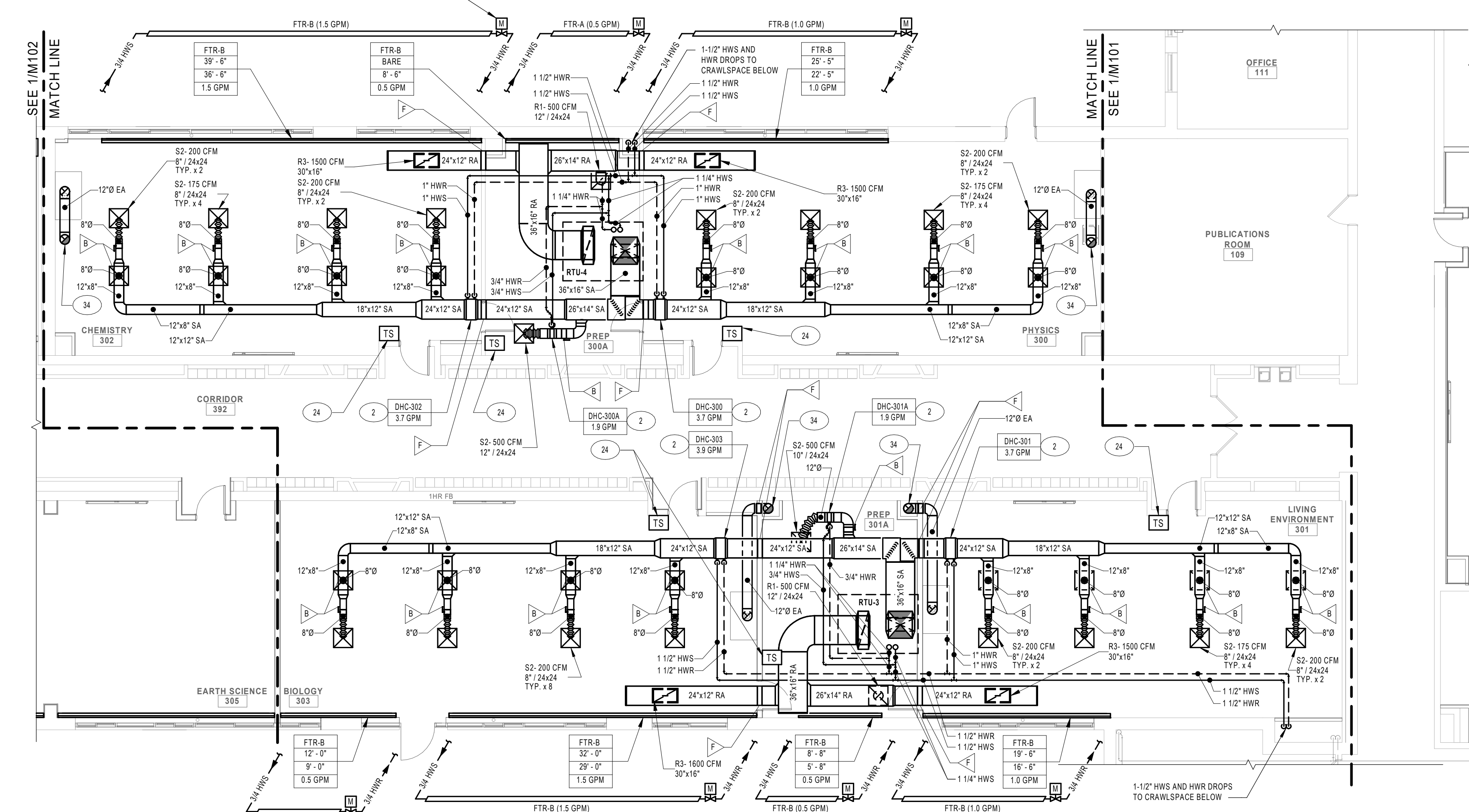
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FIRST FLOOR PLAN - AREA A

BUILDING NUMBER: **HS** SHEET NUMBER: **M101**
BID

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1 FIRST FLOOR PLAN AREA B1
SCALE: 1/8" = 1'-0"



2 FIRST FLOOR PLAN AREA B2
SCALE: 1/8" = 1'-0"

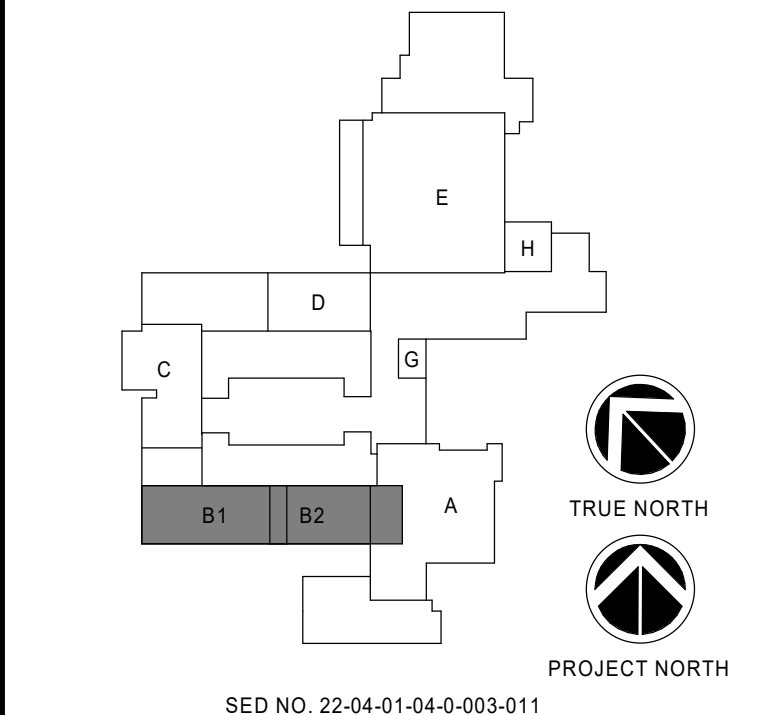
GENERAL NOTES:

- SEE DRAWING M5000 FOR GENERAL NOTES, ABBREVIATIONS, SYMBOLS AND LEGENDS
- PROVIDE DUCT MOUNTED HEATING COIL, HOT WATER SUPPLY AND RETURN PIPING AND DUCTWORK CONNECTIONS TO UNIT, VALVES, CONTROLS, AND ALL ASSOCIATED ACCESSORIES. COORDINATE WITH EC TO PROVIDE POWER. INSTALL PER MANUFACTURERS RECOMMENDATIONS.
- PROVIDE SPACE TEMPERATURE SENSOR, CONTROLS, AND ALL ASSOCIATED ACCESSORIES. INSTALL PER MANUFACTURERS RECOMMENDATIONS.
- MC SHALL BE RESPONSIBLE FOR REINSTALLING EXISTING METAL CASEWORK AND CLEANING. MC SHALL BE RESPONSIBLE FOR ANY DAMAGE DURING REINSTALL.
- PROVIDE 12" EXHAUST AIR DUCTWORK FROM FINE HOOD TO FINE EXHAUST FAN ON ROOF. ROUTE 12" EXHAUST AIR DUCTWORK WITHIN SOFFIT WALL ABOVE CASEWORK. ROUTE EXHAUST AIR DUCTWORK UNDERNEATH SUPPLY AIR DUCTWORK SERVING ROOFTOP UNIT WHERE APPLICABLE.
- REINSTALL EXISTING FLOOR MOUNTED UNIT VENTILATOR BACK IN ITS ORIGINAL LOCATION AFTER COMPLETION OF CONSTRUCTION. RECONNECT HOT WATER SUPPLY AND RETURN PIPING CONNECTIONS TO UNIT. RECONNECT UNIT BACK INTO EXISTING WALL SLEEVE AND LOUVER. COORDINATE WITH EC TO PROVIDE POWER.

KEYNOTE LEGEND (ALT.)

- PROVIDE FLOOR MOUNTED UNIT VENTILATOR, REFRIGERATION PIPING, HOT WATER SUPPLY AND RETURN PIPING CONNECTIONS TO UNIT, VALVES, CONTROLS, AND ALL ASSOCIATED ACCESSORIES. ROUTE REFRIGERANT PIPING TO EXTERIOR. CONDENSING UNIT. INSTALL IN LOCATION OF PREVIOUS FLOOR MOUNTED UNIT VENTILATOR. CONNECT TO EXISTING WALL SLEEVE AND LOUVER. REFER TO COOL PIPING SCHEMATIC ON DRAWING M500 FOR REQUIRED VALVES AND ACCESSORIES. PROVIDE MANUFACTURER END FILLER PANEL BETWEEN UNIT VENTILATOR AND EXISTING CASEWORK AND FIELD CONFIRM DIMENSIONS. COORDINATE WITH EC TO PROVIDE POWER. INSTALL PER MANUFACTURERS RECOMMENDATIONS.
- PROVIDE SPACE TEMPERATURE SENSOR, CONTROLS, AND ALL ASSOCIATED ACCESSORIES. INSTALL PER MANUFACTURERS RECOMMENDATIONS.
- MC SHALL BE RESPONSIBLE FOR REINSTALLING EXISTING METAL CASEWORK AND CLEANING. MC SHALL BE RESPONSIBLE FOR ANY DAMAGE DURING REINSTALL.
- PROVIDE MANUFACTURER END FILLER PANEL BETWEEN UNIT VENTILATOR AND EXISTING CASEWORK. FIELD CONFIRM DIMENSIONS.

KEY PLAN:



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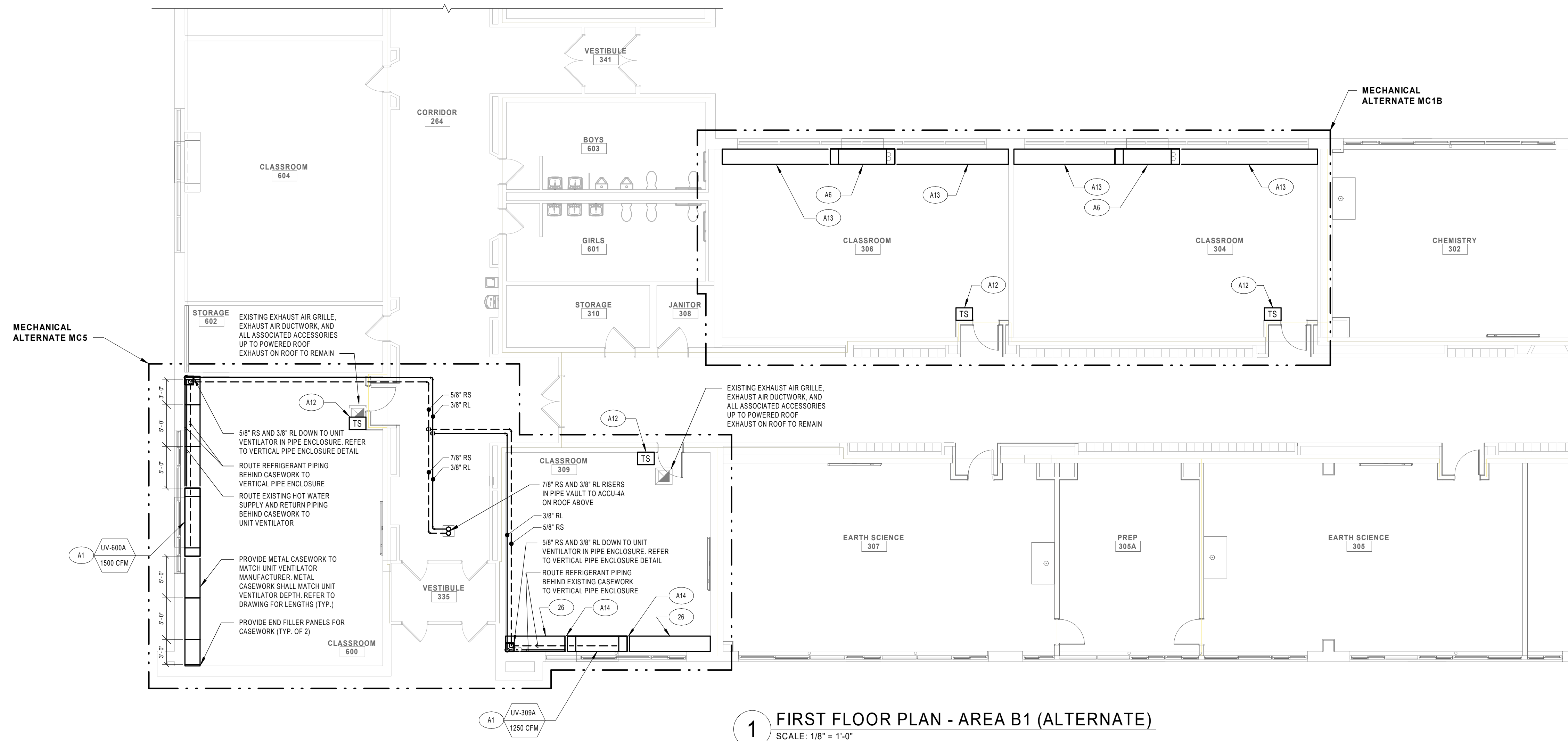
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FIRST FLOOR PLAN - AREA B1 AND B2

BUILDING NUMBER HS	SHEET NUMBER M102
BID	



1 FIRST FLOOR PLAN - AREA B1 (ALTERNATE)
SCALE: 1/8" = 1'-0"

GENERAL NOTES:

1. SEE DRAWING M5000 FOR GENERAL NOTES, ABBREVIATIONS, SYMBOLS AND LEGENDS

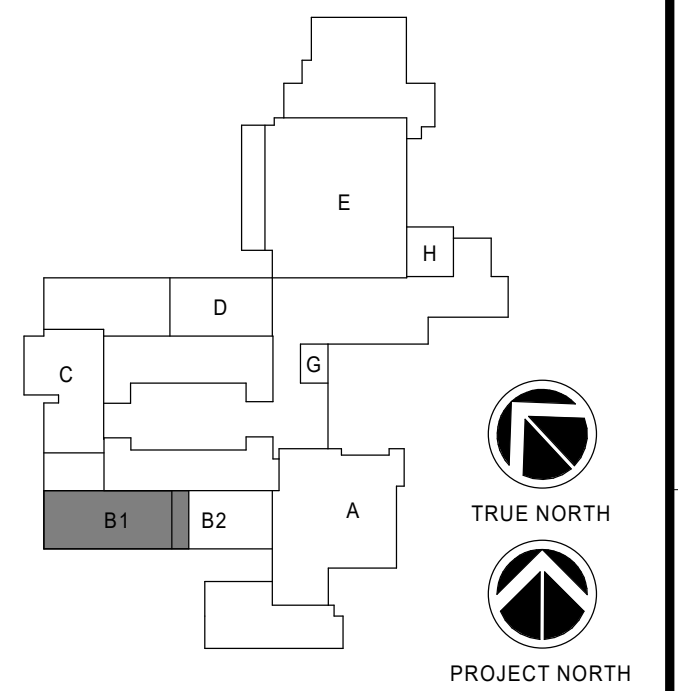
KEYNOTE LEGEND

- 28 MC SHALL BE RESPONSIBLE FOR REINSTALLING EXISTING METAL CASEWORK AND CLEANING. MC SHALL BE RESPONSIBLE FOR ANY DAMAGE DURING REINSTALL.

KEYNOTE LEGEND (ALT.)

- A1 PROVIDE FLOOR MOUNTED UNIT VENTILATOR, REFRIGERATION PIPING, HOT WATER SUPPLY AND RETURN PIPING CONNECTIONS TO UNIT, VALVES, CONTROLS, AND ALL ASSOCIATED ACCESSORIES. ROUTE REFRIGERANT PIPING TO EXTERIOR. CONDENSING UNIT - INSTALL IN LOCATION OF PREVIOUS FLOOR MOUNTED UNIT VENTILATOR. CONNECT TO EXISTING WALL SLEEVE AND LOUVER. REFER TO COOL PIPING SCHEMATIC ON DRAWING M500 FOR REQUIRED VALVES AND ACCESSORIES. PROVIDE MANUFACTURER END FILLER PANEL BETWEEN UNIT VENTILATOR AND EXISTING CASEWORK AND FIELD CONFORM DIMENSIONS. COORDINATE WITH EC TO PROVIDE POWER. INSTALL PER MANUFACTURER'S RECOMMENDATIONS.
- A6 REINSTALL EXISTING FLOOR MOUNTED UNIT VENTILATOR BACK IN ITS ORIGINAL LOCATION AFTER COMPLETION OF CONSTRUCTION. RECONNECT HOT WATER SUPPLY AND RETURN PIPING CONNECTIONS TO UNIT. RECONNECT UNIT BACK INTO EXISTING WALL SLEEVE AND LOUVER. COORDINATE WITH EC TO PROVIDE POWER.
- A12 PROVIDE SPACE TEMPERATURE SENSOR, CONTROLS, AND ALL ASSOCIATED ACCESSORIES. INSTALL PER MANUFACTURER'S RECOMMENDATIONS.
- A13 MC SHALL BE RESPONSIBLE FOR REINSTALLING EXISTING METAL CASEWORK AND CLEANING. MC SHALL BE RESPONSIBLE FOR ANY DAMAGE DURING REINSTALL.
- A14 PROVIDE MANUFACTURER END FILLER PANEL BETWEEN UNIT VENTILATOR AND EXISTING CASEWORK. FIELD CONFORM DIMENSIONS.

KEY PLAN:



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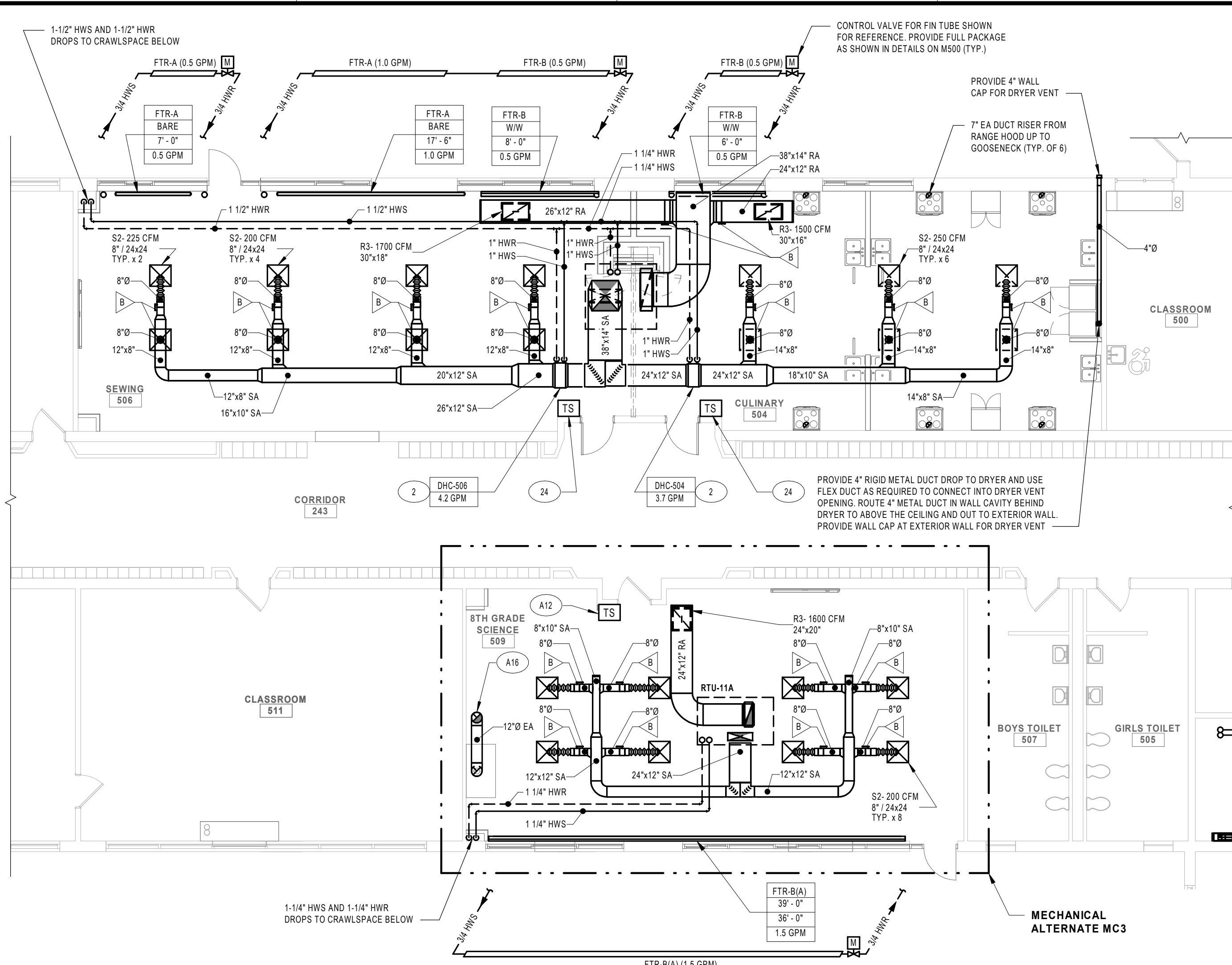
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CHECKED BY JLM	DATE 12/18/2024

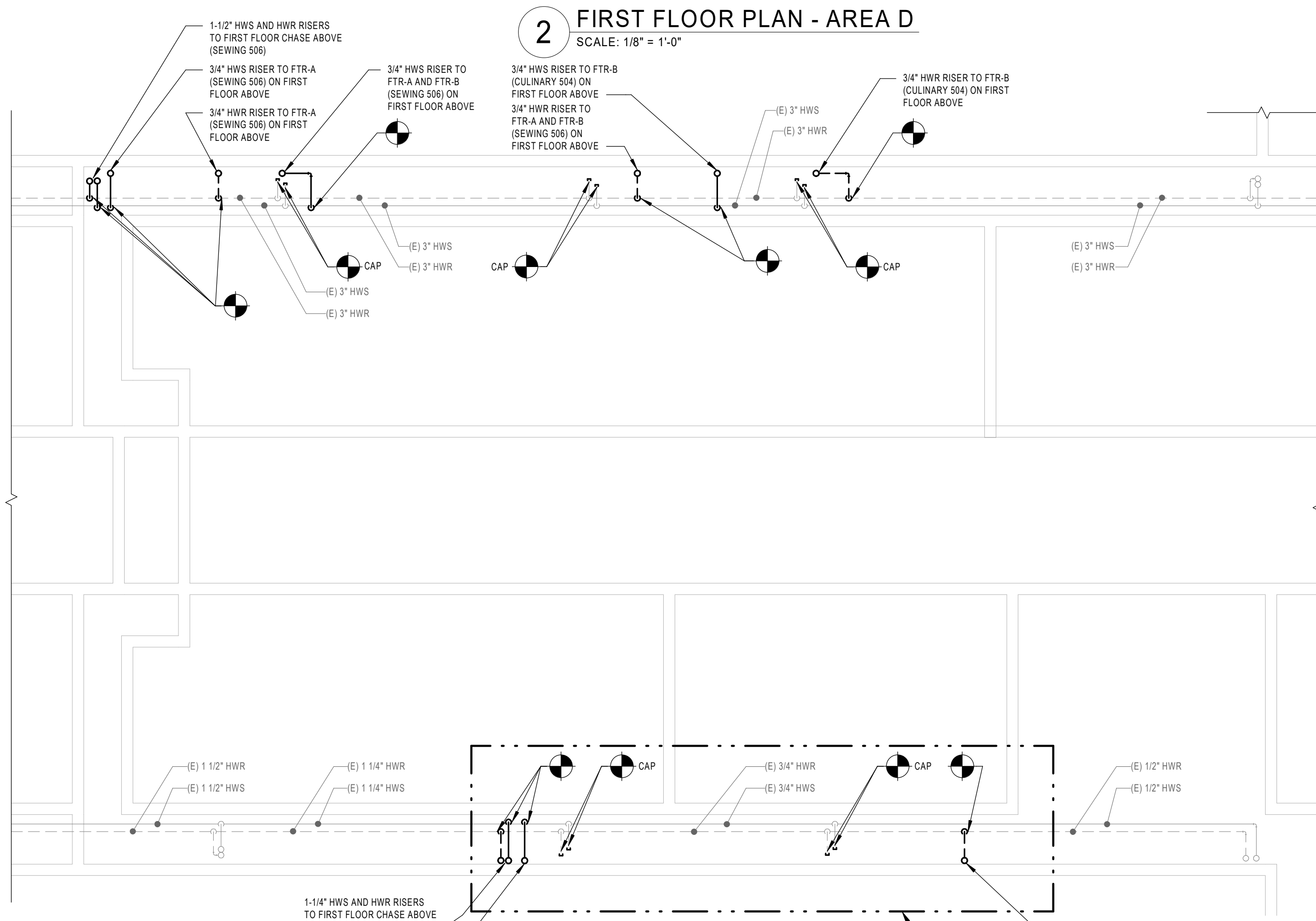
FIRST FLOOR PLAN - AREA B1
(ALTERNATE)

BUILDING NUMBER HS	SHEET NUMBER M102A BID
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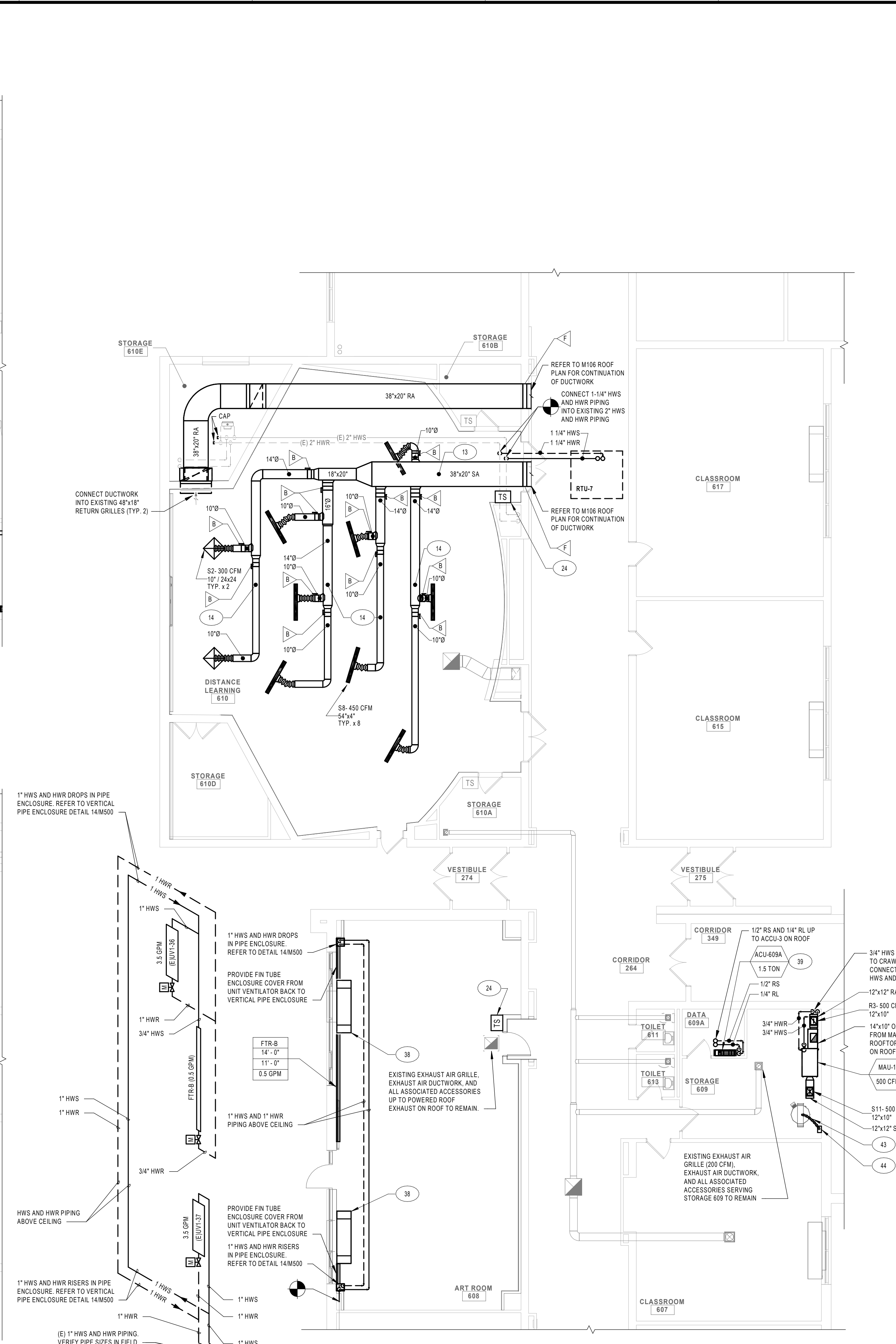
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2 FIRST FLOOR PLAN - AREA D
SCALE: 1/8" = 1'-0"



3 BASEMENT PLAN - AREA D
SCALE: 1/8" = 1'-0"



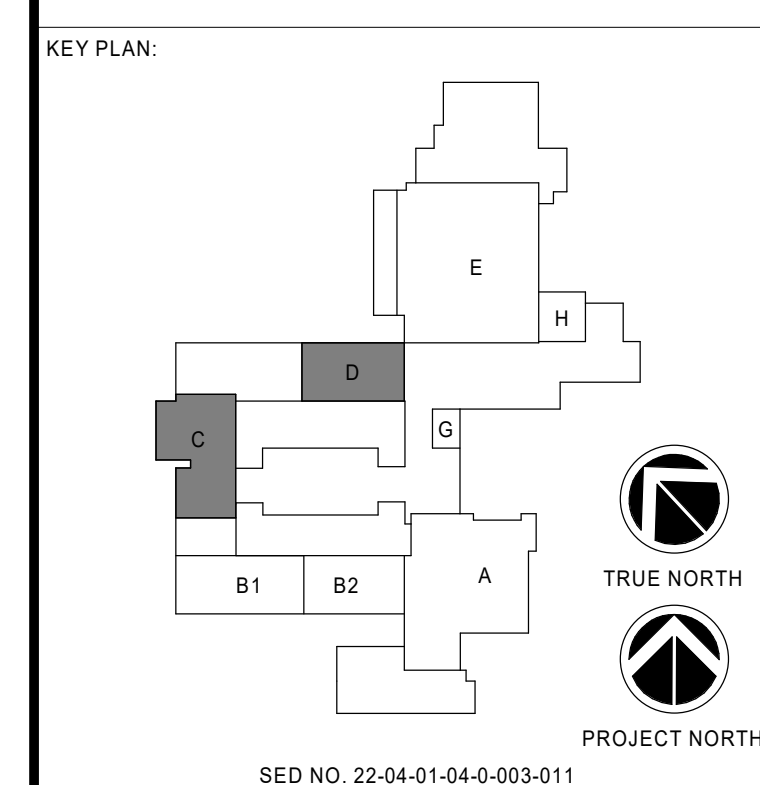
1 FIRST FLOOR PLAN - AREA C
SCALE: 1/8" = 1'-0"

GENERAL NOTES:

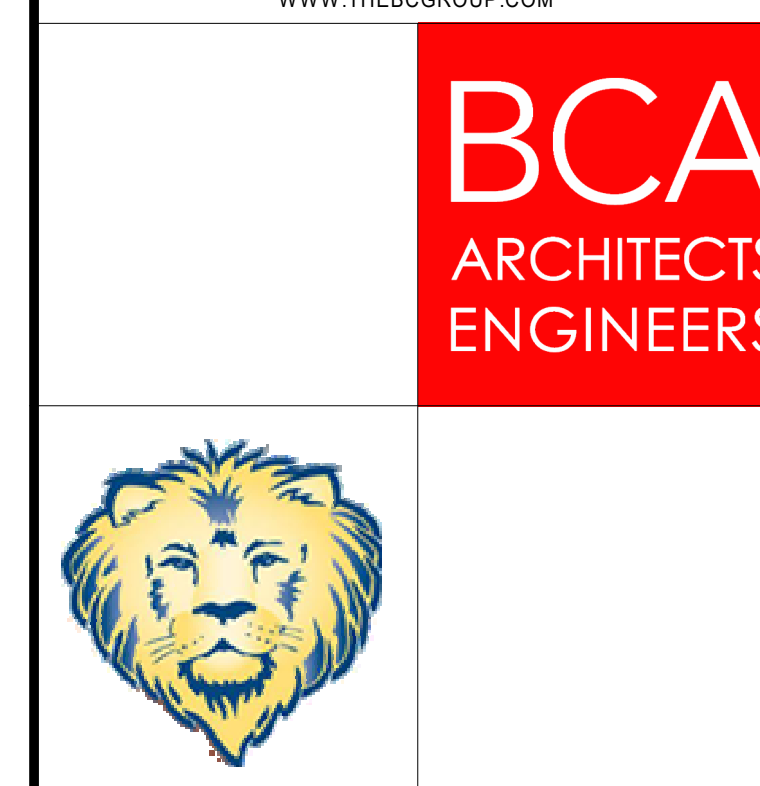
- SEE DRAWING M500 FOR GENERAL NOTES, ABBREVIATIONS, SYMBOLS AND LEGENDS
- PROVIDE DUCT MOUNTED HEATING COIL, HOT WATER SUPPLY AND RETURN PIPING AND DUCTWORK CONNECTIONS TO UNIT, VALVES, CONTROLS AND ALL ASSOCIATED ACCESSORIES. COORDINATE WITH EC TO PROVIDE POWER. INSTALL PER MANUFACTURERS RECOMMENDATIONS.
- ROUTE SUPPLY AIR DUCT MAIN BETWEEN EXISTING BAR JOISTS.
- ROUTE SUPPLY AIR DUCT THROUGH EXISTING BAR JOISTS.
- PROVIDE SPACE TEMPERATURE SENSOR, CONTROLS, AND ALL ASSOCIATED ACCESSORIES. INSTALL PER MANUFACTURERS RECOMMENDATIONS.
- REINSTALL EXISTING FLOOR MOUNTED UNIT VENTILATOR BACK IN ITS ORIGINAL LOCATION AFTER COMPLETION OF CONSTRUCTION. RECONNECT HOT WATER SUPPLY AND RETURN PIPING CONNECTIONS TO UNIT. RECONNECT UNIT BACK INTO EXISTING WALL SLEEVE AND LOUVER. COORDINATE WITH EC TO PROVIDE POWER.
- PROVIDE WALL MOUNTED COOLING ONLY MINI-SPLIT REFRIGERATION PIPING, CONTROLS, AND ALL ASSOCIATED ACCESSORIES. PROVIDE SUPPORTS TO MOUNT UNIT TO WALL. THE UNIT BACK INTO EXISTING CONDENSATE DRAIN. COORDINATE WITH EC TO PROVIDE POWER. INSTALL PER MANUFACTURERS RECOMMENDATIONS.
- PROVIDE MAKE-UP AIR UNIT, HOT WATER SUPPLY AND RETURN PIPING CONNECTIONS TO UNIT, DUCTWORK, DAMPERS, CONTROLS, AND ALL ASSOCIATED ACCESSORIES. COORDINATE WITH EC TO PROVIDE POWER. INSTALL PER MANUFACTURERS RECOMMENDATIONS.
- PROVIDE ENVIROVENT 2 KILN EXHAUST SYSTEM. PROVIDE PLENUM CLIP WITH CUP STAND AND SPRING UNDERNEATH KILN FOR ATTACHMENT OF 3" DIAMETER FLEX TUBING FROM KILN TO WALL MOUNTED BLOWER WITH MOTOR. ROUTE EXHAUST DUCT FROM MOTOR WITH BLOWER TO ROOF GOOSENECK. COORDINATE WITH EC TO PROVIDE POWER. INSTALL PER MANUFACTURERS RECOMMENDATIONS.
- PROVIDE ENVIROVENT 2 BLOWER WITH MOTOR TO INCLUDE A FLOOR MOUNTING BRACKET AND SCREW INTO WALL FOR USE OF VERTICAL INSTALLATION.

KEYNOTE LEGEND (ALT.)

- PROVIDE SPACE TEMPERATURE SENSOR, CONTROLS, AND ALL ASSOCIATED ACCESSORIES. INSTALL PER MANUFACTURERS RECOMMENDATIONS.
- PROVIDE 12" EXHAUST AIR DUCTWORK FROM FUME HOOD TO FUME EXHAUST FAN ON ROOF. ROUTE 12" EXHAUST AIR DUCTWORK WITHIN SOFFIT WALL ABOVE CASEWORK.



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CHECKED BY: JLM DATE: 12/16/2024
FIRST FLOOR PLAN - AREA C AND D
BUILDING NUMBER: HS SHEET NUMBER: M103
BID

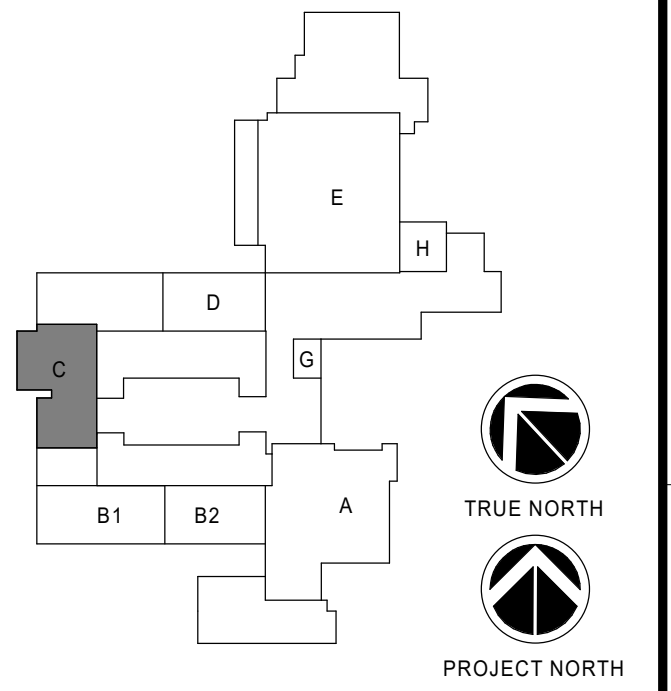
GENERAL NOTES:

- SEE DRAWING M5000 FOR GENERAL NOTES, ABBREVIATIONS, SYMBOLS AND LEGENDS

KEYNOTE LEGEND (ALT.)

- A12 PROVIDE SPACE TEMPERATURE SENSOR, CONTROLS, AND ALL ASSOCIATED ACCESSORIES. INSTALL PER MANUFACTURERS RECOMMENDATIONS.

KEY PLAN:



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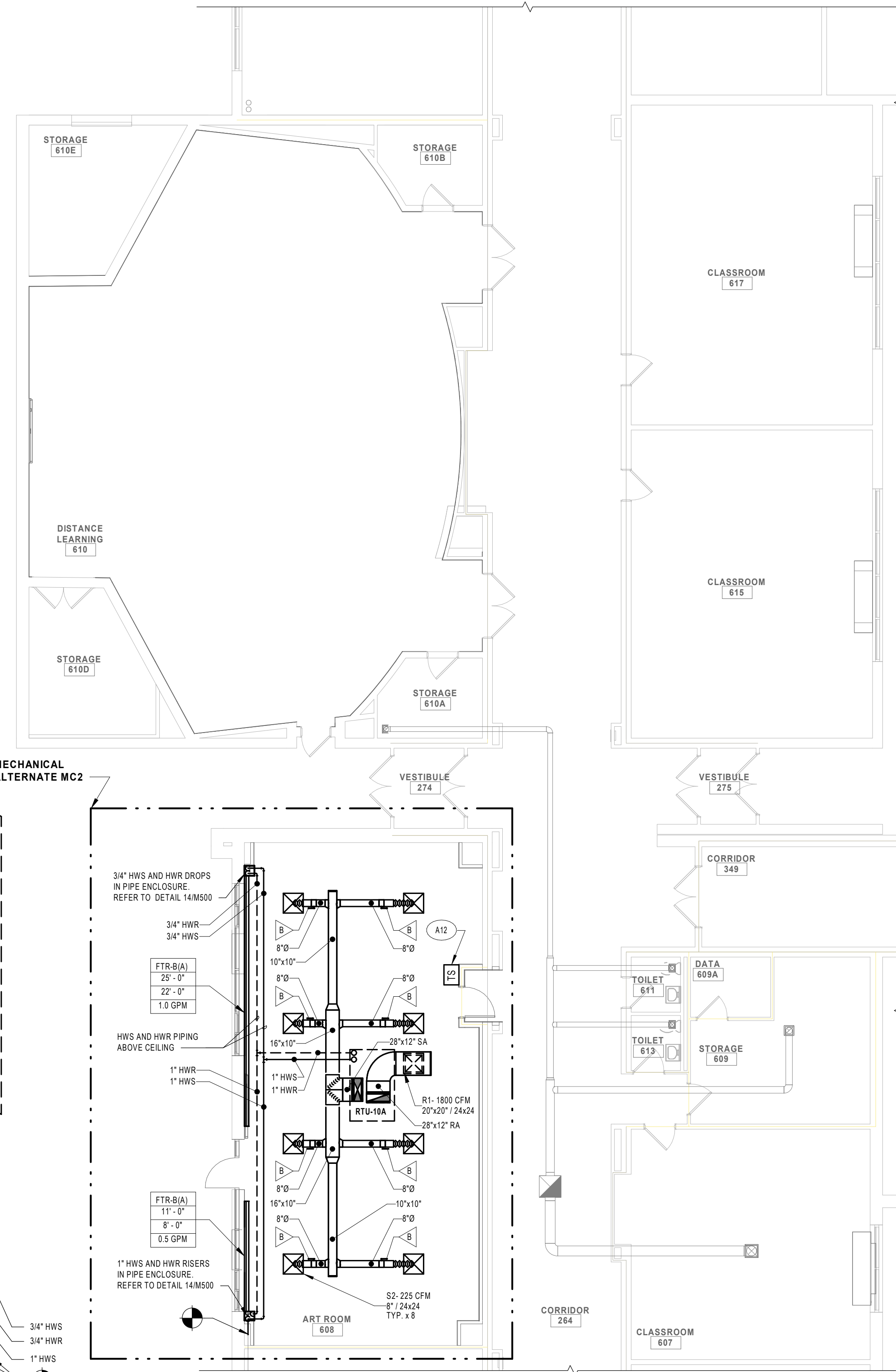
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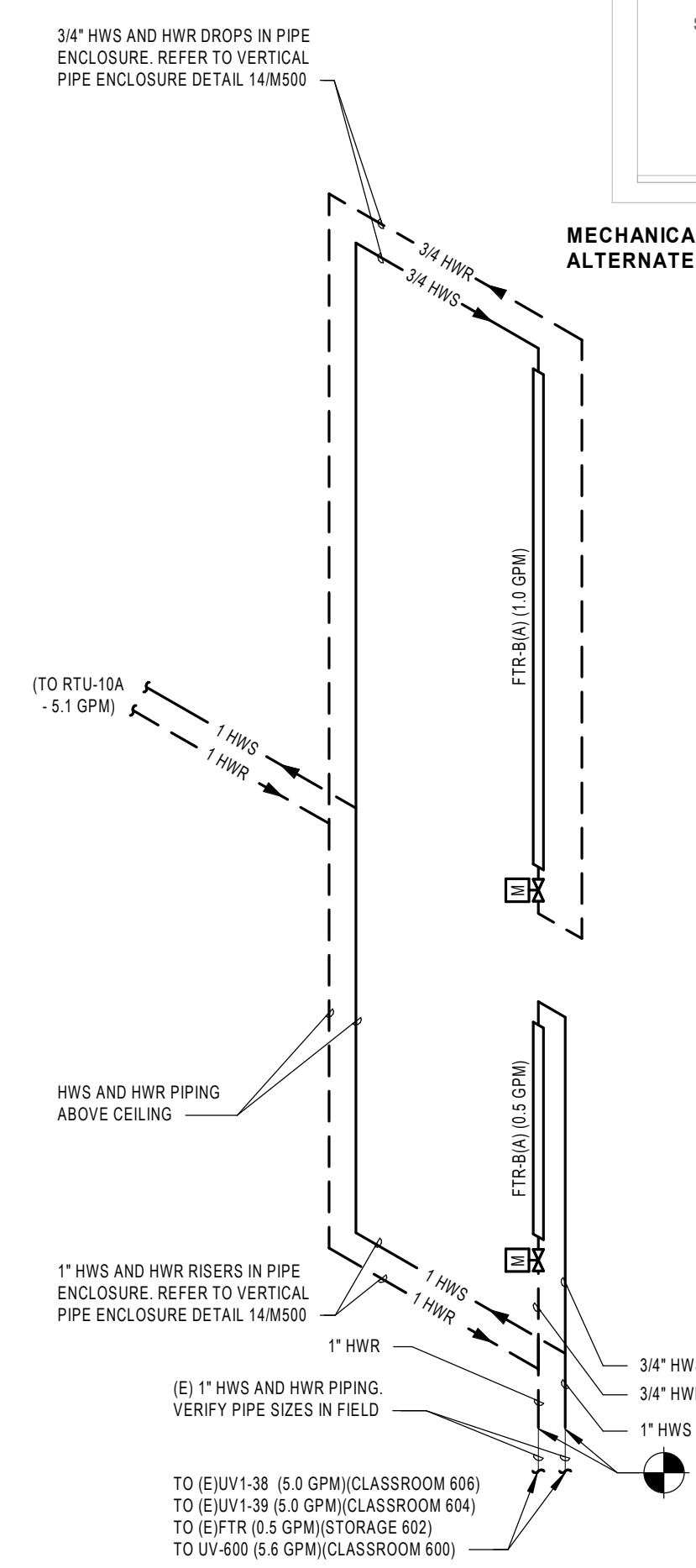
DRAWN BY JV/GDK	PROJECT NUMBER 2023-105
CHECKED BY JLM	DATE 12/16/2024

FIRST FLOOR PLAN - AREA C (ALTERNATE)

BUILDING NUMBER HS	SHEET NUMBER M103A BID
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1 FIRST FLOOR PLAN - AREA C (ALTERNATE)
 SCALE: 1/8" = 1'-0"



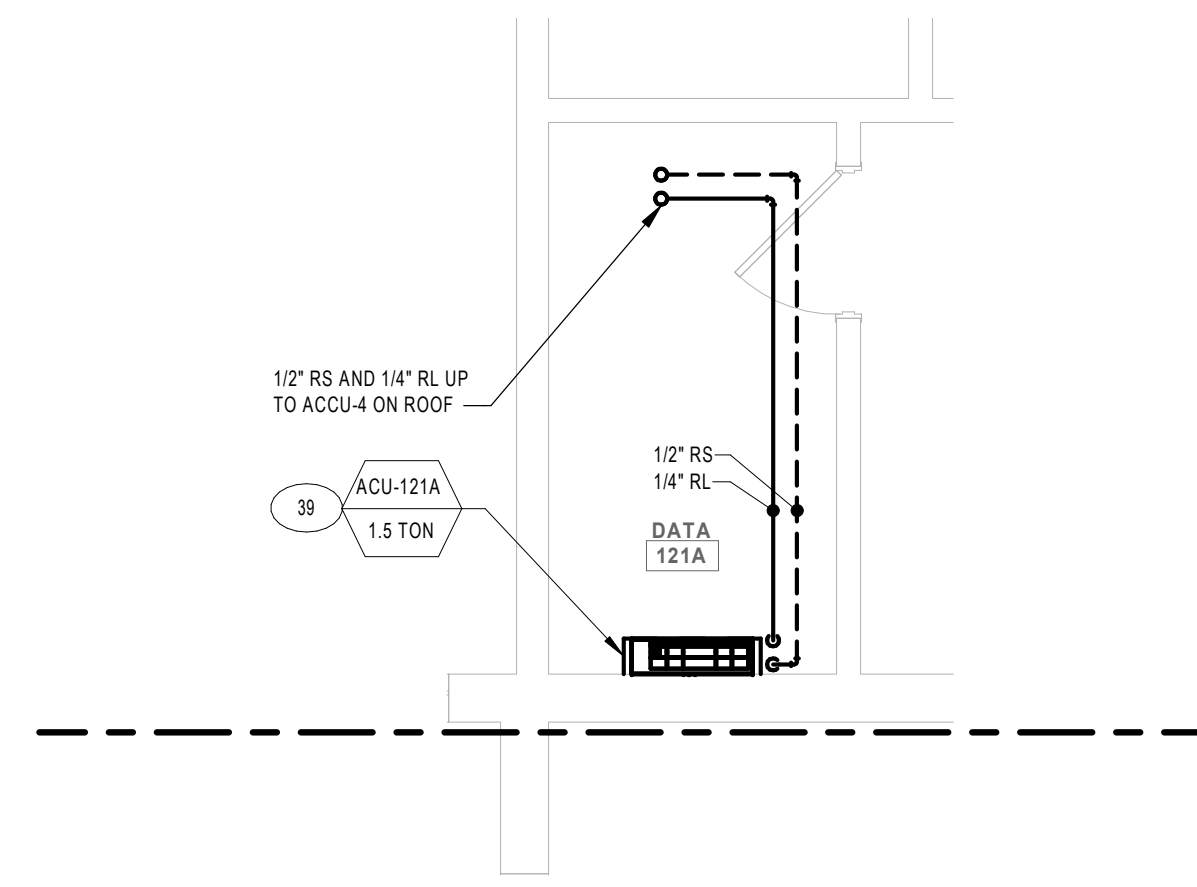
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GENERAL NOTES:

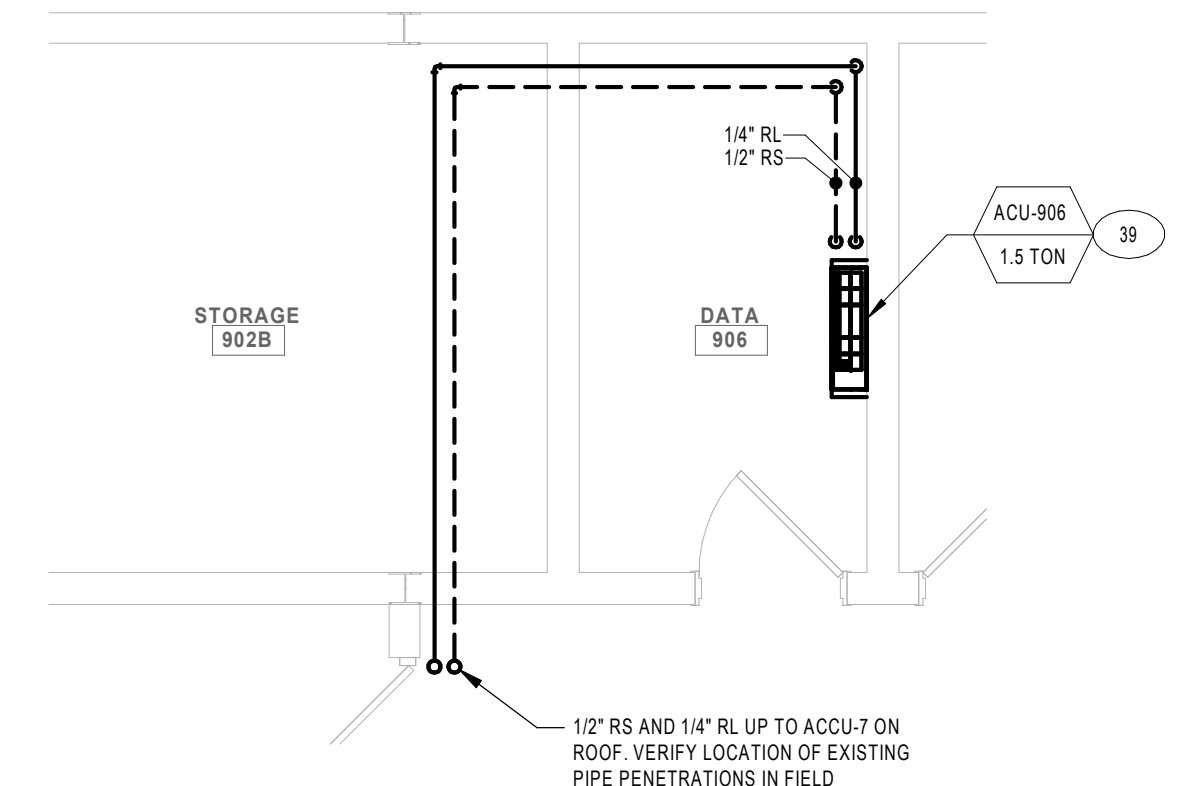
1. SEE DRAWING MS000 FOR GENERAL NOTES, ABBREVIATIONS, SYMBOLS AND LEGENDS

KEYNOTE LEGEND

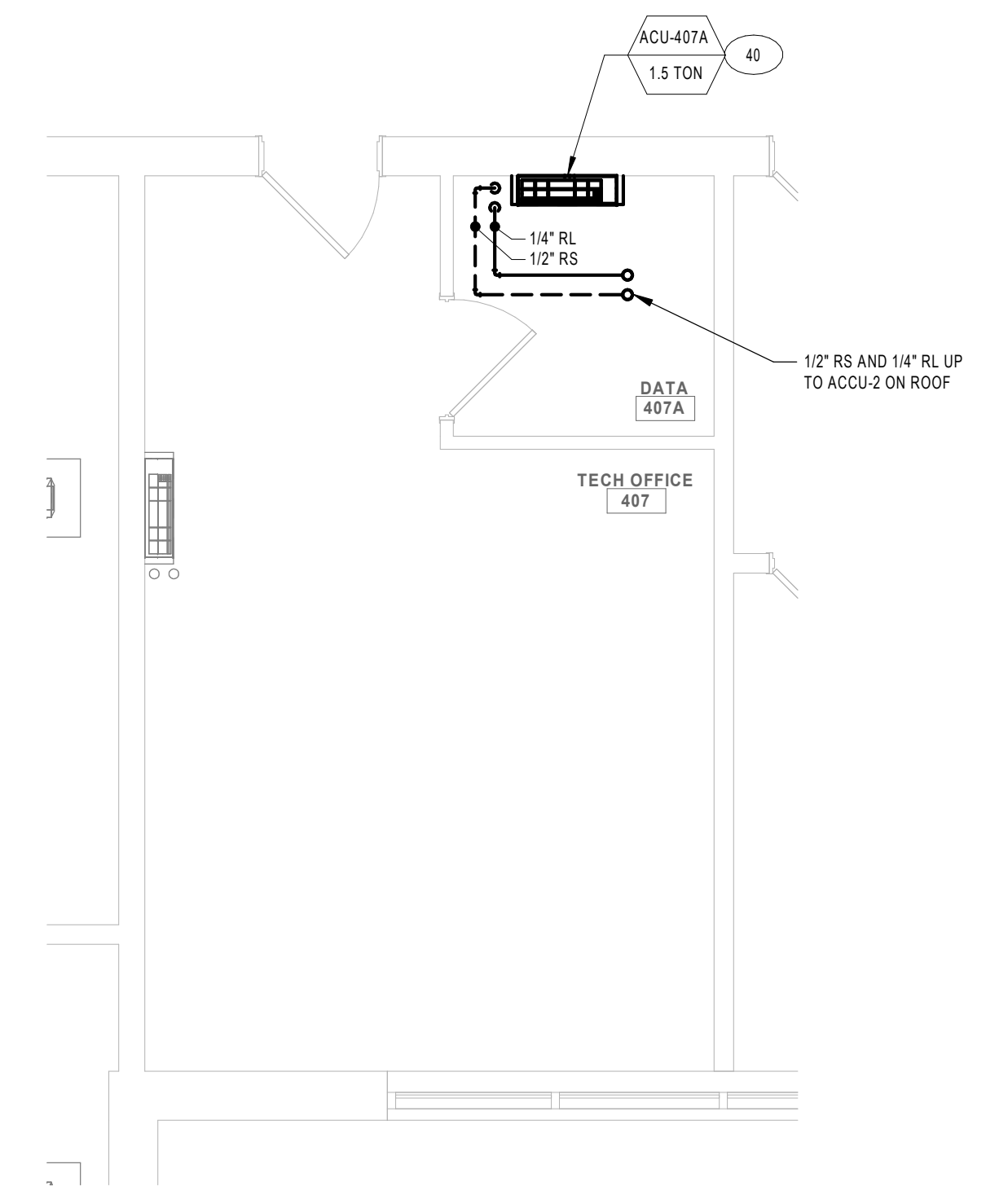
- 39 PROVIDE WALL MOUNTED COOLING ONLY MINI-SPLIT, REFRIGERATION PIPING, CONTROLS, AND ALL ASSOCIATED ACCESSORIES. PROVIDE SUPPORTS TO MOUNT UNIT TO WALL. TIE UNIT BACK INTO EXISTING CONDENSATE DRAIN. COORDINATE WITH EC TO PROVIDE POWER. INSTALL PER MANUFACTURERS RECOMMENDATIONS.
- 40 PROVIDE WALL MOUNTED COOLING ONLY MINI-SPLIT, REFRIGERATION PIPING, CONTROLS, AND ALL ASSOCIATED ACCESSORIES. PROVIDE SUPPORTS TO MOUNT UNIT TO WALL. PROVIDE NEW CONDENSATE DRAIN FOR UNIT. COORDINATE WITH EC TO PROVIDE POWER. INSTALL PER MANUFACTURERS RECOMMENDATIONS.



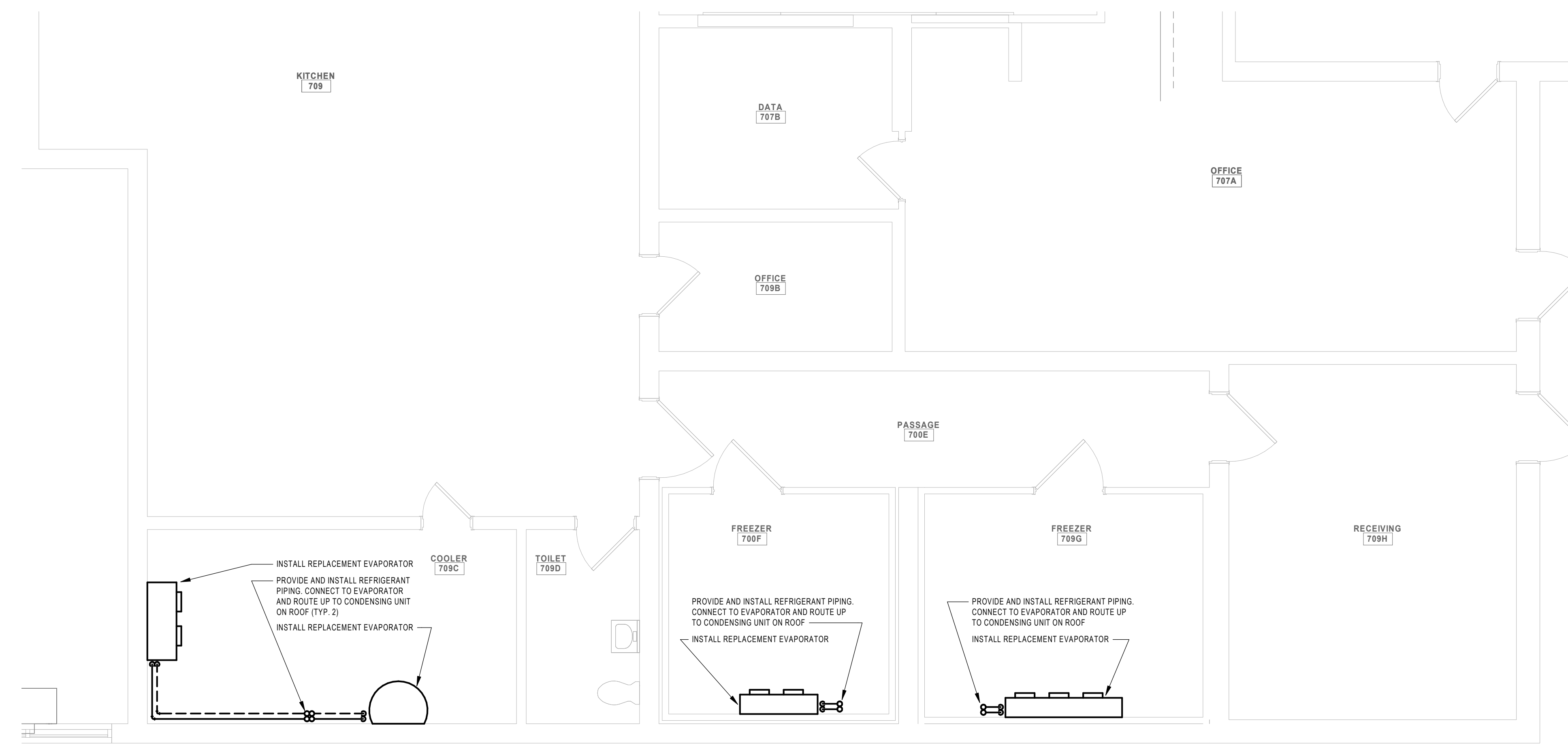
3 FIRST FLOOR PLAN - DATA 121A
SCALE: 1/4" = 1'-0"



2 FIRST FLOOR PLAN - DATA 906
SCALE: 1/4" = 1'-0"

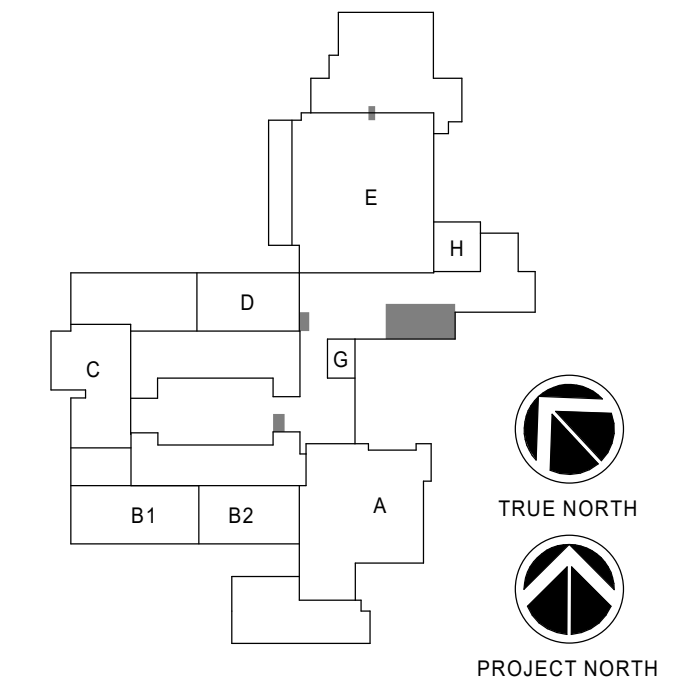


1 FIRST FLOOR PLAN - DATA 407A
SCALE: 1/4" = 1'-0"



4 FIRST FLOOR PLAN - WALK IN COOLER AND FREEZERS
SCALE: 1/4" = 1'-0"

KEY PLAN:



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REV	DATE	DESCRIPTION

DRAWN BY JVJ/DK	PROJECT NUMBER 2023-105
CHECKED BY JLM	DATE 12/16/2024

FIRST FLOOR PLAN - DATA CLOSETS AND FREEZERS

BUILDING NUMBER HS	SHEET NUMBER M105 BID
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12/16/2024 9:20:43 AM

GENERAL NOTES:

- SEE DRAWING MS000 FOR GENERAL NOTES, ABBREVIATIONS, SYMBOLS AND LEGENDS

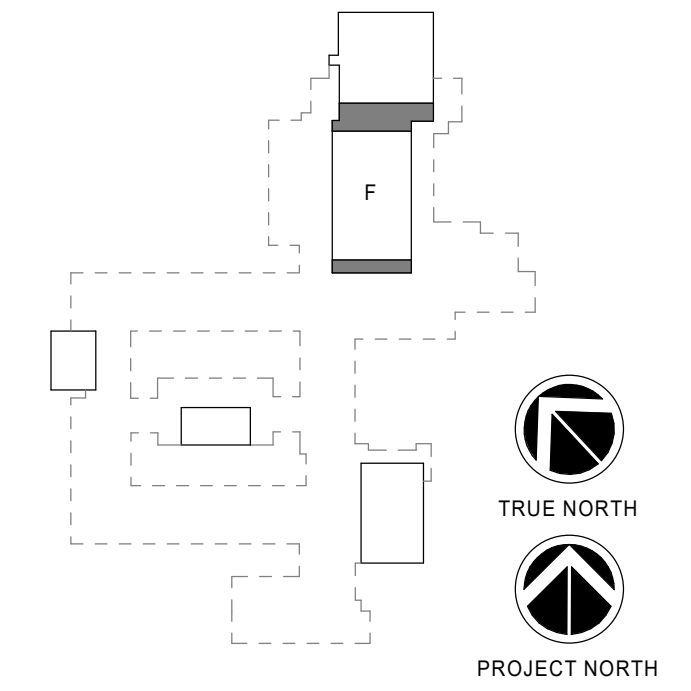
KEYNOTE LEGEND

- PROVIDE DUCT MOUNTED COOLING COIL IN EXISTING SUPPLY AIR MAIN BACK TO AIR HANDLING UNIT. PROVIDE REFRIGERANT PIPING CONNECTIONS FROM COOLING COIL TO ROOF MOUNTED CONDENSING UNIT, ALVES, CONTROLS, AND ALL ASSOCIATED ACCESSORIES. PROVIDE WITH STAINLESS STEEL DRAIN PAN, # 4 BASE RAIL, AND FULLY INSULATE WITH FIBERGLASS INSULATION. ROUTE CONDENSATE TO NEAREST FLOOR DRAIN. INSTALL PER MANUFACTURERS RECOMMENDATIONS.
- CONNECT 42"x42" SUPPLY AIR DUCTWORK INTO EXISTING 42"x42" SUPPLY AIR DUCTWORK AND TRANSITION TO CONNECT TO COOLING COIL.

KEYNOTE LEGEND (ALT.)

- PROVIDE DX COOLED AIR HANDLING UNIT, DUCTWORK SYSTEM, HOT WATER SUPPLY AND RETURN PIPING CONNECTIONS TO UNIT, VALVES, CONTROLS, AND ALL ASSOCIATED ACCESSORIES. HANG UNIT FROM EXISTING STRUCTURE. COORDINATE WITH EC TO PROVIDE POWER. INSTALL PER MANUFACTURERS RECOMMENDATIONS.

KEY PLAN:



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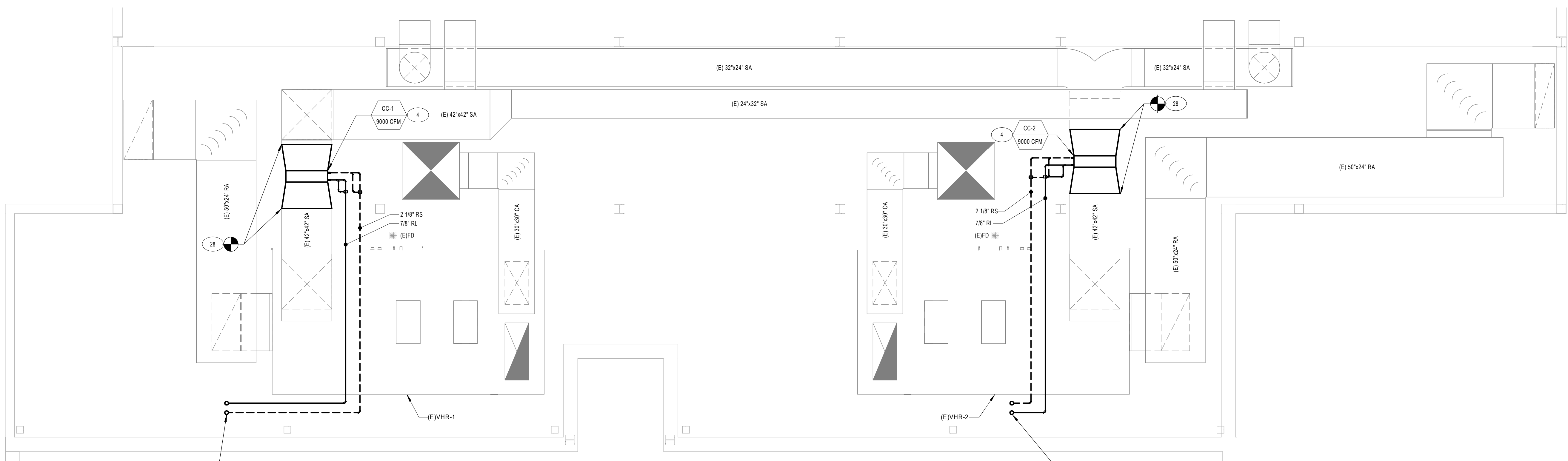
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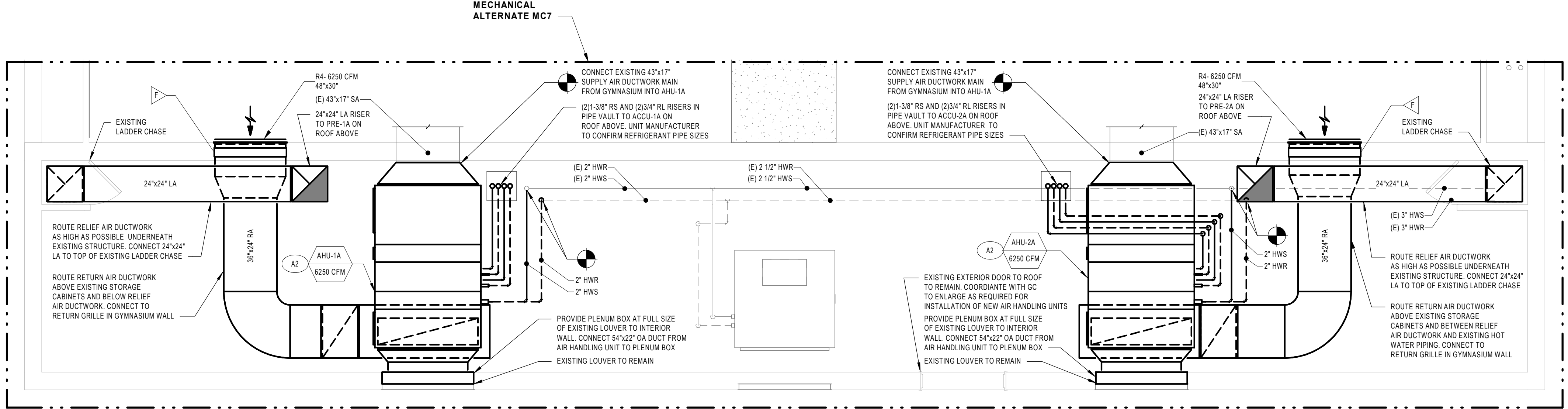
DRAWN BY JVG/DK	PROJECT NUMBER 2023-105
CHECKED BY JLM	DATE 12/16/2024
ENLARGED MEZZANINE PLANS	
BUILDING NUMBER HS	SHEET NUMBER M106 BID



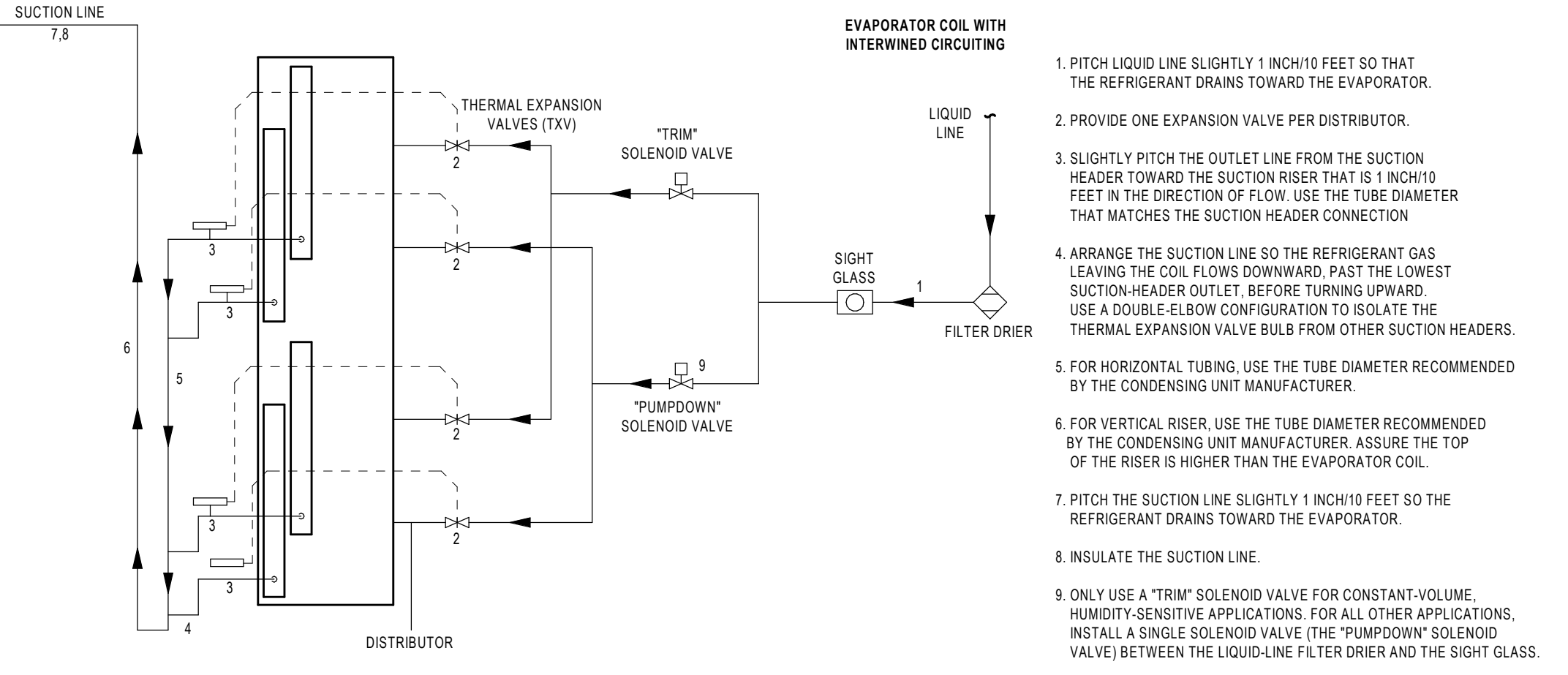
1 ENLARGED GYMNASIUM 902 MEZZANINE PLAN
 SCALE: 1/4" = 1'-0"

2-1/8" RS AND 7/8" RL RISERS IN PIPE VAULT TO ACCU-5 ON ROOF ABOVE. UNIT MANUFACTURER TO CONFIRM REFRIGERANT PIPE SIZES

2-1/8" RS AND 7/8" RL RISERS IN PIPE VAULT TO ACCU-6 ON ROOF ABOVE. UNIT MANUFACTURER TO CONFIRM REFRIGERANT PIPE SIZES



2 ENLARGED GYMNASIUM 716 MEZZANINE PLAN
 SCALE: 1/4" = 1'-0"



3 ACCU-5((E)VHR-1) & ACCU-6((E)VHR-2) PIPING SCHEMATIC
 SCALE: NOT TO SCALE

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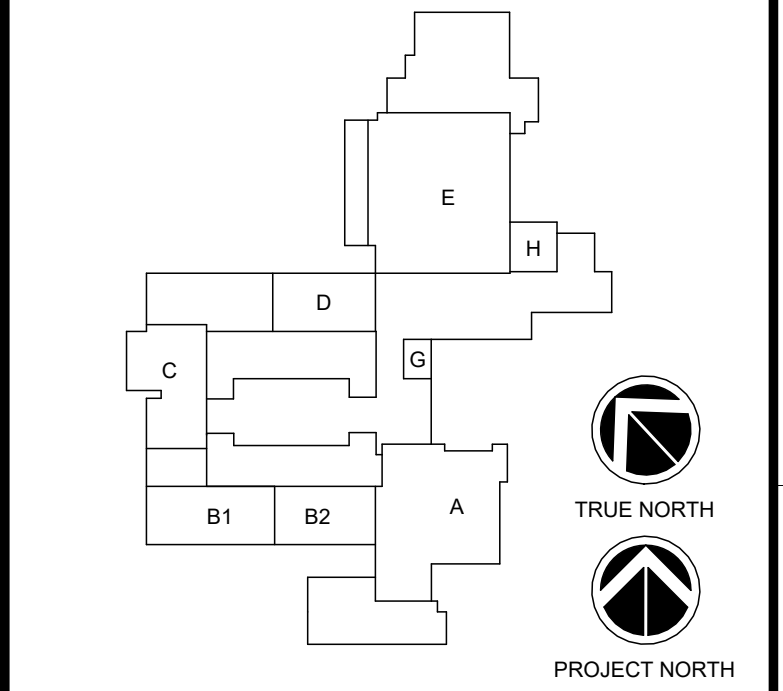
GENERAL NOTES:

- SEE DRAWING M5000 FOR GENERAL NOTES, ABBREVIATIONS, SYMBOLS AND LEGENDS.
- THE MC IS TO COORDINATE WITH THE AAC AND GC FOR ALL PENETRATIONS THROUGH THE EXISTING ROOF DECK. THIS EXISTING ROOF DECK IS SUSPECTED TO BE POSITIVE FOR ASBESTOS.
- FINAL LOCATION OF ROOFTOP EQUIPMENT IS TO BE DETERMINED IN FIELD AND COORDINATED WITH OTHER TRADES.

KEYNOTE LEGEND

- PROVIDE PACKAGED AIR SOURCE ROOFTOP UNIT WITH HEAT RECOVERY WHEEL, HOT WATER SUPPLY AND RETURN PIPING SYSTEM, DUCTWORK SYSTEM, VALVES, CONTROLS, AND ALL ASSOCIATED ACCESSORIES. GC SHALL BE RESPONSIBLE FOR CUTTING OPENING OF EXISTING ROOF DECK SYSTEM. MC TO FURNISH 18" ROOF CURB. GC SHALL BE RESPONSIBLE FOR ALL FRAMING AND INSTALLATION OF ROOF CURB. PIPING CONNECTIONS AND ASSOCIATED VALVES TO UNIT SHALL BE DONE WITHIN CABINET/ROOF CURB SPACE. COORDINATE WITH EC TO PROVIDE POWER. INSTALL PER MANUFACTURERS RECOMMENDATIONS.
- PROVIDE PACKAGED AIR SOURCE ROOFTOP UNIT, HOT WATER SUPPLY AND RETURN PIPING SYSTEM, DUCTWORK SYSTEM, VALVES, CONTROLS, AND ALL ASSOCIATED ACCESSORIES. GC SHALL BE RESPONSIBLE FOR CUTTING OPENING OF EXISTING ROOF DECK SYSTEM. MC TO FURNISH 18" ROOF CURB. GC SHALL BE RESPONSIBLE FOR ALL FRAMING AND INSTALLATION OF ROOF CURB. PIPING CONNECTIONS AND ASSOCIATED VALVES TO UNIT SHALL BE DONE WITHIN CABINET/ROOF CURB SPACE. COORDINATE WITH EC TO PROVIDE POWER. INSTALL PER MANUFACTURERS RECOMMENDATIONS.
- PROVIDE ROOF MOUNTED POWERED ROOF EXHAUST, DUCTWORK, DAMPERS, CONTROLS, AND ALL ASSOCIATED ACCESSORIES. GC SHALL BE RESPONSIBLE FOR CUTTING OPENING OF EXISTING ROOF DECK SYSTEM. MC TO FURNISH 18" ROOF CURB. GC SHALL BE RESPONSIBLE FOR ALL FRAMING AND INSTALLATION OF ROOF CURB. COORDINATE WITH EC TO PROVIDE POWER. INSTALL PER MANUFACTURERS RECOMMENDATIONS.
- PROVIDE AIR COOLED CONDENSING UNIT, REFRIGERATION PIPING, CONTROLS, AND ALL ASSOCIATED ACCESSORIES. MC TO FURNISH 18" EQUIPMENT SUPPORT CURB. GC SHALL BE RESPONSIBLE FOR CUTTING OPENING OF EXISTING ROOF DECK SYSTEM. COORDINATE WITH EC TO PROVIDE POWER. INSTALL PER MANUFACTURERS RECOMMENDATIONS.
- MC TO FURNISH ROOF MOUNTED PIPE VAULT. GC SHALL BE RESPONSIBLE FOR ALL FRAMING AND INSTALLATION OF PIPE VAULT. ROUTE REFRIGERANT PIPING DOWN THROUGH ROOF PENETRATION TO INDOOR EQUIPMENT. MC TO FURNISH 18" ROOF CURB. GC SHALL BE RESPONSIBLE FOR ALL FRAMING AND INSTALLATION OF ROOF CURB. COORDINATE WITH EC FOR CONDUIT TO BE RUN THROUGH PIPE VAULT.
- PROVIDE ROOF MOUNTED POWERED ROOF EXHAUST, DUCTWORK, DAMPERS, CONTROLS, AND ALL ASSOCIATED ACCESSORIES. MOUNT POWERED ROOF EXHAUST ON EXISTING ROOF CURB. PROVIDE ROOF CURB ADAPTER IF REQUIRED. TIE NEW EXHAUST RELIEF AIR DUCTWORK SYSTEM TO POWERED ROOF EXHAUST THROUGH EXISTING OPENING IN ROOF. COORDINATE WITH EC TO PROVIDE POWER. INSTALL PER MANUFACTURERS RECOMMENDATIONS.
- PROVIDE 3" DIAMETER GOOSENECK WITH ROOF CURB AROUND DUCT SERVING KILN AND TERMINATE A MINIMUM OF 18" ABOVE ROOF. GC SHALL BE RESPONSIBLE FOR CUTTING OPENING OF EXISTING ROOF DECK SYSTEM. MC TO FURNISH 18" ROOF CURB. GC SHALL BE RESPONSIBLE FOR ALL FRAMING AND INSTALLATION OF ROOF CURB. REFER TO DUCT ROOF PENETRATION DETAIL.
- EXISTING ROOF MOUNTED POWERED ROOF EXHAUST, DUCTWORK SYSTEM, DAMPERS, CONTROLS, AND ALL ASSOCIATED ACCESSORIES TO REMAIN.
- PROVIDE ROOF MOUNTED POWERED ROOF EXHAUST, DUCTWORK, DAMPERS, CONTROLS, AND ALL ASSOCIATED ACCESSORIES. GC SHALL BE RESPONSIBLE FOR CUTTING OPENING OF EXISTING ROOF DECK SYSTEM. MC TO FURNISH 18" ROOF CURB. GC SHALL BE RESPONSIBLE FOR ALL FRAMING AND INSTALLATION OF ROOF CURB. COORDINATE WITH EC TO PROVIDE POWER. INSTALL PER MANUFACTURERS RECOMMENDATIONS.
- MC TO FURNISH ROOF MOUNTED PIPE VAULT. GC SHALL BE RESPONSIBLE FOR ALL FRAMING AND INSTALLATION OF PIPE VAULT. ROUTE REFRIGERANT PIPING DOWN THROUGH ROOF PENETRATION TO INDOOR EQUIPMENT. MC TO FURNISH 18" ROOF CURB. GC SHALL BE RESPONSIBLE FOR ALL FRAMING AND INSTALLATION OF ROOF CURB. COORDINATE WITH EC FOR CONDUIT TO BE RUN THROUGH PIPE VAULT.
- PROVIDE ROOF MOUNTED POWERED ROOF EXHAUST, DUCTWORK, DAMPERS, CONTROLS, AND ALL ASSOCIATED ACCESSORIES. MOUNT POWERED ROOF EXHAUST ON EXISTING ROOF CURB. PROVIDE ROOF CURB ADAPTER IF REQUIRED. TIE NEW EXHAUST RELIEF AIR DUCTWORK SYSTEM TO POWERED ROOF EXHAUST THROUGH EXISTING OPENING IN ROOF. COORDINATE WITH EC TO PROVIDE POWER. INSTALL PER MANUFACTURERS RECOMMENDATIONS.
- PROVIDE 7" DIAMETER GOOSENECK WITH ROOF CURB AROUND DUCT SERVING CULINARY RANGE HOOD AND TERMINATE A MINIMUM OF 18" ABOVE ROOF. GC SHALL BE RESPONSIBLE FOR CUTTING OPENING OF EXISTING ROOF DECK SYSTEM. MC TO FURNISH 18" ROOF CURB. GC SHALL BE RESPONSIBLE FOR ALL FRAMING AND INSTALLATION OF ROOF CURB. REFER TO DUCT ROOF PENETRATION DETAIL.
- PROVIDE ROOF MOUNTED FUME EXHAUST FAN, DUCTWORK, DAMPERS, CONTROLS, AND ALL ASSOCIATED ACCESSORIES. GC SHALL BE RESPONSIBLE FOR CUTTING OPENING OF EXISTING ROOF DECK SYSTEM. MC TO FURNISH 18" ROOF CURB. GC SHALL BE RESPONSIBLE FOR ALL FRAMING AND INSTALLATION OF ROOF CURB. PROVIDE EXHAUST FAN WITH LOW LEAKAGE CONTROL, DAMPER AND MANUFACTURER VFD PACKAGE. VFD SHALL BE SHIPPED LOOSE AND TURNED OVER TO EC FOR INSTALLATION. INSTALL VFD IN INTERIOR OF SPACE AS CLOSE AS POSSIBLE TO EXHAUST FAN. COORDINATE WITH EC TO PROVIDE POWER. INSTALL PER MANUFACTURERS RECOMMENDATIONS.

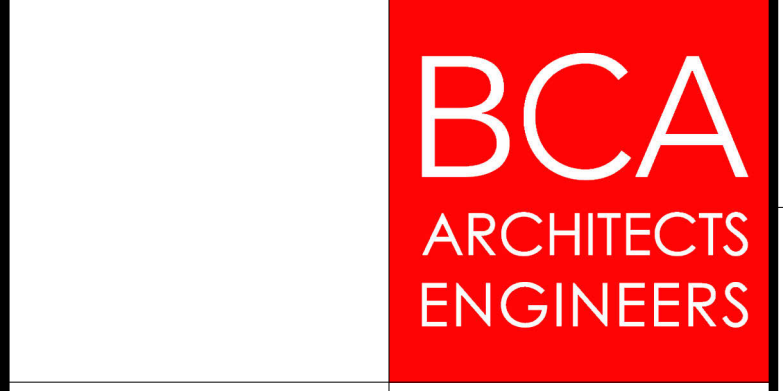
KEY PLAN:



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 DATE: 12/16/2024

ROOF PLAN

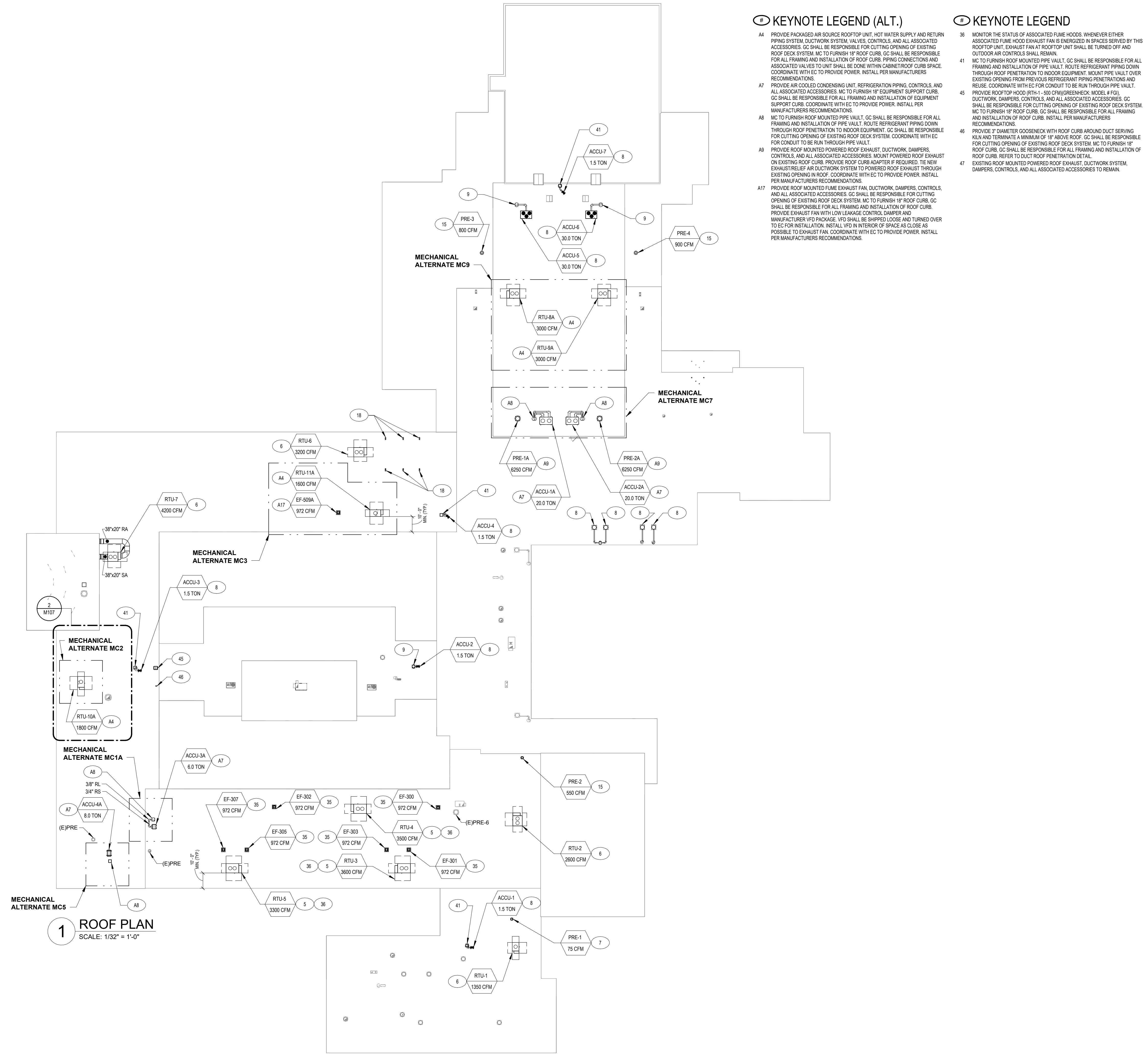
BUILDING NUMBER	SHEET NUMBER
HS	M107
	BID

KEYNOTE LEGEND (ALT.)

- PROVIDE PACKAGED AIR SOURCE ROOFTOP UNIT, HOT WATER SUPPLY AND RETURN PIPING SYSTEM, DUCTWORK SYSTEM, VALVES, CONTROLS, AND ALL ASSOCIATED ACCESSORIES. GC SHALL BE RESPONSIBLE FOR CUTTING OPENING OF EXISTING ROOF DECK SYSTEM. MC TO FURNISH 18" ROOF CURB. GC SHALL BE RESPONSIBLE FOR ALL FRAMING AND INSTALLATION OF ROOF CURB. PIPING CONNECTIONS AND ASSOCIATED VALVES TO UNIT SHALL BE DONE WITHIN CABINET/ROOF CURB SPACE. COORDINATE WITH EC TO PROVIDE POWER. INSTALL PER MANUFACTURERS RECOMMENDATIONS.
- PROVIDE AIR COOLED CONDENSING UNIT, REFRIGERATION PIPING, CONTROLS, AND ALL ASSOCIATED ACCESSORIES. MC TO FURNISH 18" EQUIPMENT SUPPORT CURB. COORDINATE WITH EC TO PROVIDE POWER. INSTALL PER MANUFACTURERS RECOMMENDATIONS.
- MC TO FURNISH ROOF MOUNTED PIPE VAULT. GC SHALL BE RESPONSIBLE FOR ALL FRAMING AND INSTALLATION OF PIPE VAULT. ROUTE REFRIGERANT PIPING DOWN THROUGH ROOF PENETRATION TO INDOOR EQUIPMENT. MC TO FURNISH 18" ROOF CURB. GC SHALL BE RESPONSIBLE FOR ALL FRAMING AND INSTALLATION OF ROOF CURB. COORDINATE WITH EC FOR CONDUIT TO BE RUN THROUGH PIPE VAULT.
- PROVIDE ROOF MOUNTED POWERED ROOF EXHAUST, DUCTWORK, DAMPERS, CONTROLS, AND ALL ASSOCIATED ACCESSORIES. MOUNT POWERED ROOF EXHAUST ON EXISTING ROOF CURB. PROVIDE ROOF CURB ADAPTER IF REQUIRED. TIE NEW EXHAUST RELIEF AIR DUCTWORK SYSTEM TO POWERED ROOF EXHAUST THROUGH EXISTING OPENING IN ROOF. COORDINATE WITH EC TO PROVIDE POWER. INSTALL PER MANUFACTURERS RECOMMENDATIONS.
- PROVIDE ROOF MOUNTED FUME EXHAUST FAN, DUCTWORK, DAMPERS, CONTROLS, AND ALL ASSOCIATED ACCESSORIES. GC SHALL BE RESPONSIBLE FOR CUTTING OPENING OF EXISTING ROOF DECK SYSTEM. MC TO FURNISH 18" ROOF CURB. GC SHALL BE RESPONSIBLE FOR ALL FRAMING AND INSTALLATION OF ROOF CURB. PROVIDE EXHAUST FAN WITH LOW LEAKAGE CONTROL, DAMPER AND MANUFACTURER VFD PACKAGE. VFD SHALL BE SHIPPED LOOSE AND TURNED OVER TO EC FOR INSTALLATION. INSTALL VFD IN INTERIOR OF SPACE AS CLOSE AS POSSIBLE TO EXHAUST FAN. COORDINATE WITH EC TO PROVIDE POWER. INSTALL PER MANUFACTURERS RECOMMENDATIONS.

KEYNOTE LEGEND

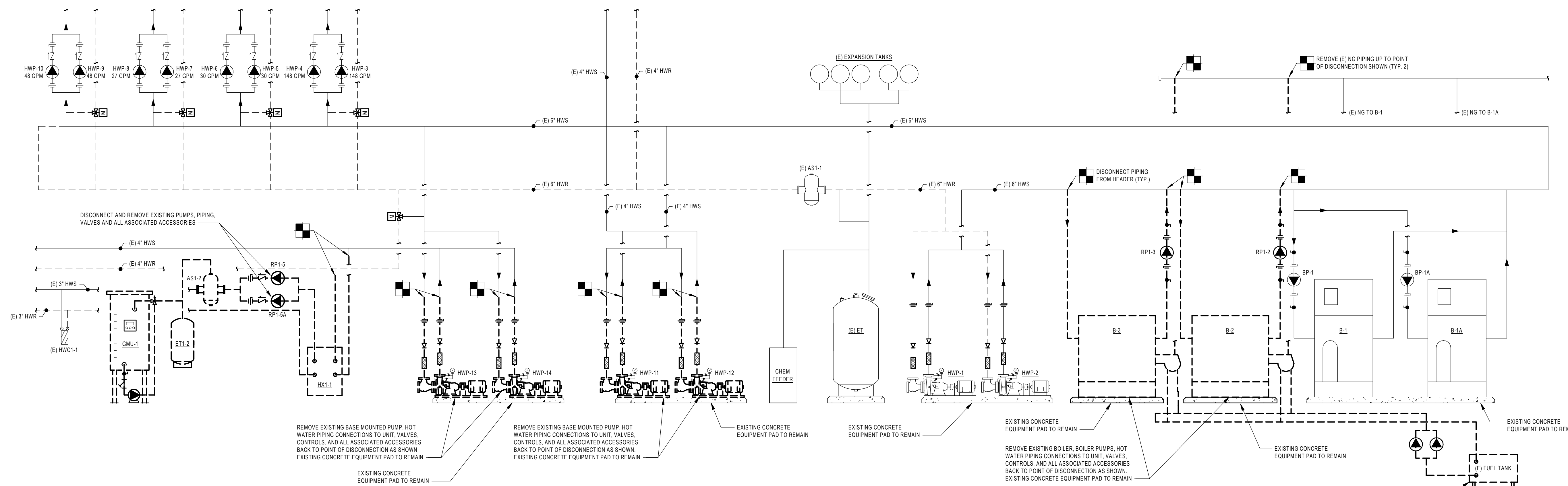
- MONITOR THE STATUS OF ASSOCIATED FUME HOODS. WHENEVER EITHER ASSOCIATED FUME HOOD EXHAUST FAN IS ENERGIZED IN SPACES SERVED BY THIS ROOFTOP UNIT, EXHAUST FAN AT ROOFTOP UNIT SHALL BE TURNED OFF AND OUTDOOR AIR CONTROLS SHALL REMAIN.
- MC TO FURNISH ROOF MOUNTED PIPE VAULT. GC SHALL BE RESPONSIBLE FOR ALL FRAMING AND INSTALLATION OF PIPE VAULT. ROUTE REFRIGERANT PIPING DOWN THROUGH ROOF PENETRATION TO INDOOR EQUIPMENT. MOUNT PIPE VAULT OVER EXISTING OPENING FROM PREVIOUS REFRIGERANT PIPING PENETRATIONS AND REUSE. COORDINATE WITH EC FOR CONDUIT TO BE RUN THROUGH PIPE VAULT.
- PROVIDE ROOFTOP HOOD (RTH-1: 500 CFM/GREENECK MODEL FGI), DUCTWORK, DAMPERS, CONTROLS, AND ALL ASSOCIATED ACCESSORIES. GC SHALL BE RESPONSIBLE FOR CUTTING OPENING OF EXISTING ROOF DECK SYSTEM. MC TO FURNISH 18" ROOF CURB. GC SHALL BE RESPONSIBLE FOR ALL FRAMING AND INSTALLATION OF ROOF CURB. INSTALL PER MANUFACTURERS RECOMMENDATIONS.
- PROVIDE 3" DIAMETER GOOSENECK WITH ROOF CURB AROUND DUCT SERVING KILN AND TERMINATE A MINIMUM OF 18" ABOVE ROOF. GC SHALL BE RESPONSIBLE FOR CUTTING OPENING OF EXISTING ROOF DECK SYSTEM. MC TO FURNISH 18" ROOF CURB. GC SHALL BE RESPONSIBLE FOR ALL FRAMING AND INSTALLATION OF ROOF CURB. REFER TO DUCT ROOF PENETRATION DETAIL.
- EXISTING ROOF MOUNTED POWERED ROOF EXHAUST, DUCTWORK SYSTEM, DAMPERS, CONTROLS, AND ALL ASSOCIATED ACCESSORIES TO REMAIN.



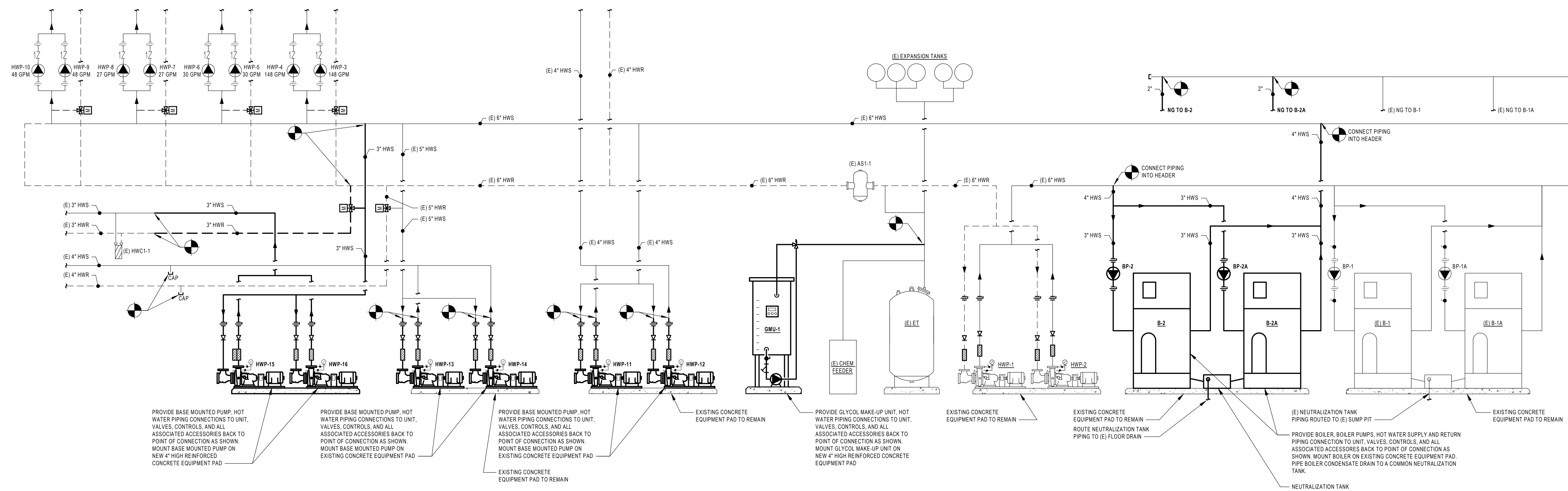
2 ROOF PLAN - BASE BID (ART ROOM 608)
 SCALE: 1/32" = 1'-0"

1 ROOF PLAN
 SCALE: 1/32" = 1'-0"

12/17/2024 11:37:35 AM



1 BOILER DEMOLITION PIPING SCHEMATIC
SCALE: 1/4" = 1'-0"



2 BOILER PIPING SCHEMATIC
SCALE: 1/4" = 1'-0"

KEY PLAN:

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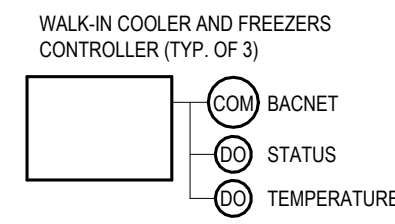
REV	DATE	DESCRIPTION

DRAWN BY JVJ/DK	PROJECT NUMBER 2023-105
CHECKED BY JLM	DATE 12/16/2024

BOILER ROOM PIPING SCHEMATICS

BUILDING NUMBER HS	SHEET NUMBER M301 BID
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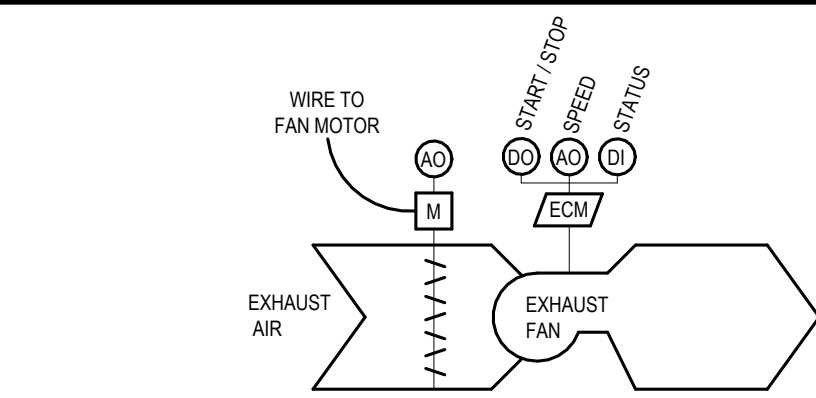
12/16/2024 9:20:44 AM



WALK-IN COOLER AND FREEZERS SYSTEM CONTROL

1. PROVIDE STATUS OF EACH WALK-IN COOLER AND FREEZER.
2. PROVIDE BACNET INTERFACE WITH THE WALK-IN COOLER AND FREEZERS SYSTEM.
3. CONTROLLER TO MONITOR ALL TEMPERATURES AND PROVIDE ALL ALARM POINTS.

8 WALK-IN COOLER AND FREEZERS
SCALE: NOT TO SCALE

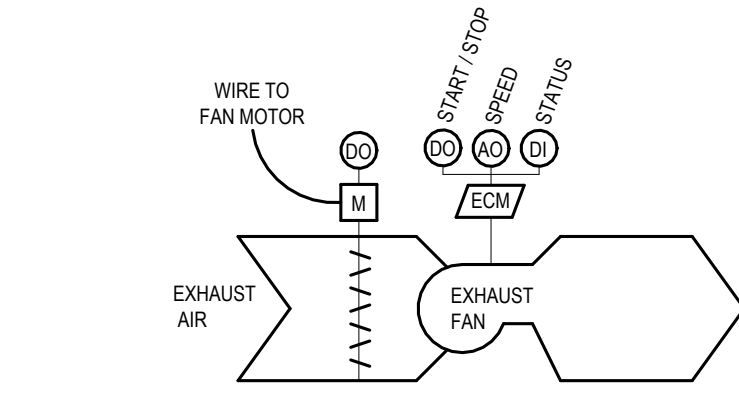


EXHAUST FAN - CONSTANT SPEED - SEQUENCE OF OPERATIONS:

INTERLOCK THE OPERATION OF THE EXHAUST FANS AND AUTOMATIC DAMPERS WITH THEIR RESPECTIVE HEATING AND COOLING EQUIPMENT.

1. OCCUPIED MODE:
 - A. THE EXHAUST FAN SHALL RUN CONTINUOUSLY AND THE AUTOMATIC AIR DAMPER SHALL OPEN.
2. UNOCCUPIED MODE:
 - A. THE EXHAUST FAN SHALL BE OFF AND THE AUTOMATIC AIR DAMPER SHALL BE CLOSED.
3. WARM-UP MODE:
 - A. THE EXHAUST FAN SHALL BE OFF AND THE AUTOMATIC AIR DAMPER SHALL BE CLOSED.
4. SAFETIES:
 - A. UPON A FAILURE OF THE FAN, AS SENSED BY A CURRENT SENSING STATUS SWITCH, AN ALARM SHALL BE ACTIVATED.

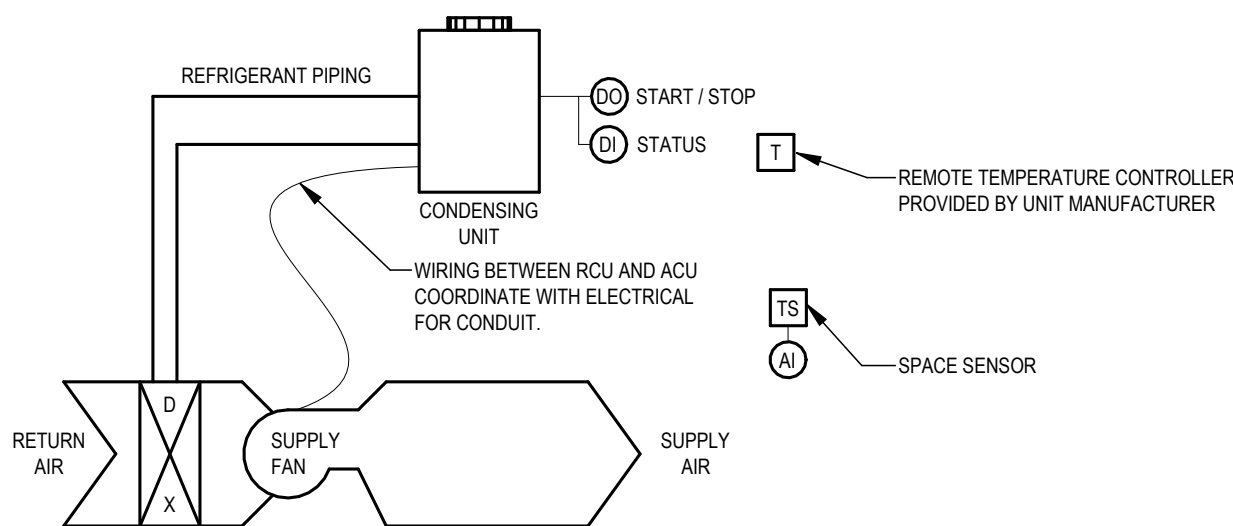
4 EXHAUST FAN - CONSTANT SPEED (PRE-1,2,3,4)
SCALE: NOT TO SCALE



EXHAUST RELIEF FAN - VARIABLE SPEED - SEQUENCE OF OPERATIONS:

1. OCCUPIED MODE:
 - A. THE FAN DAMPER SHALL OPEN. THE EXHAUST FAN SHALL START AT THE MINIMUM SPEED DETERMINED BY THE AIR BALANCER TO DELIVER THE MINIMUM CFM AS SCHEDULED FOR THE EXHAUST FAN. THE EXHAUST FAN SPEED SHALL MODULATE AS THE UNIT VENTILATORS OUTSIDE AIR DAMPERS MODULATE FROM MINIMUM CFM TO ECONOMIZER CFM. THE EXHAUST FAN SPEED SHALL NOT EXCEED THE MAXIMUM SPEED DETERMINED BY THE AIR BALANCER TO DELIVER THE MAXIMUM CFM AS SCHEDULED FOR THE EXHAUST FAN.
2. UNOCCUPIED MODE:
 - A. THE FAN SHALL BE OFF AND AUTOMATIC AIR DAMPER SHALL BE CLOSED.
3. WARM-UP MODE:
 - A. THE FAN SHALL BE OFF AND AUTOMATIC AIR DAMPER SHALL BE CLOSED.
4. SAFETIES:
 - A. UPON A FAILURE OF THE FAN, AS SENSED BY A CURRENT SENSING STATUS SWITCH, AN ALARM SHALL BE ACTIVATED.

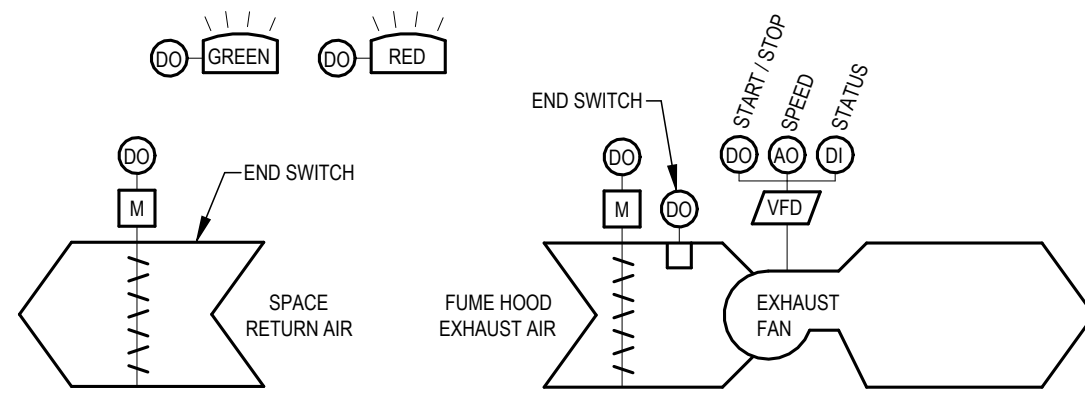
5 EXHAUST FAN - VARIABLE SPEED (PRE-1A,2A)
SCALE: NOT TO SCALE



DUCTLESS SPLIT SYSTEMS - COOLING ONLY - SEQUENCE OF OPERATIONS:

1. UNITS SHALL BE CONTROLLED WITH THE UNIT PROVIDED CONTROL AND THERMOSTAT.
2. MONITOR ROOM TEMPERATURE BY A SPACE TEMPERATURE SENSOR.
3. GENERATE AN ALARM WHEN THE TEMPERATURE GOES ABOVE OR BELOW ROOM TEMPERATURE RAND (ADJUSTABLE).

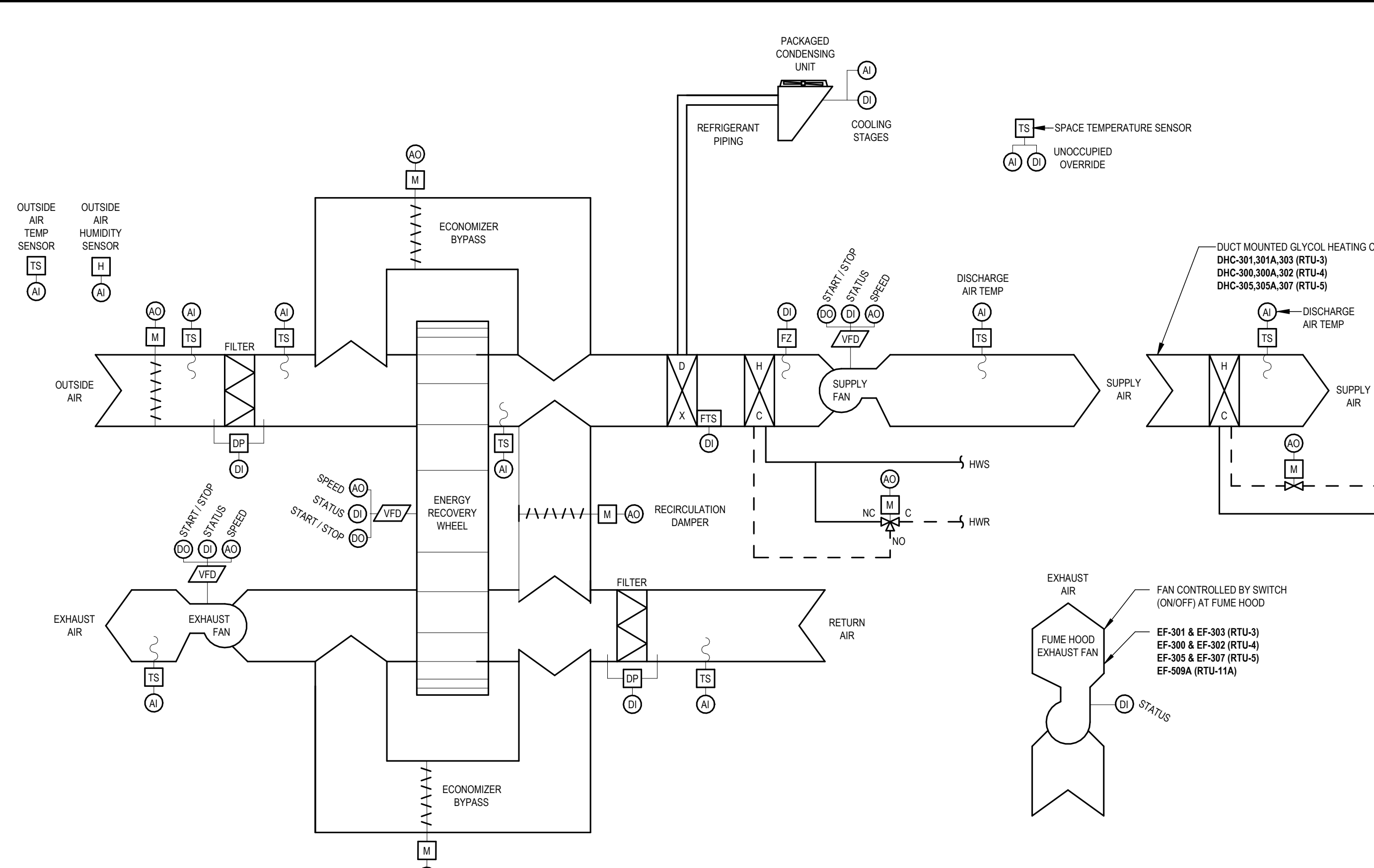
6 DUCTLESS SPLIT SYSTEM - COOLING ONLY (ACCU-1,2,3,4,7)
SCALE: NOT TO SCALE



FUME HOOD EXHAUST FAN - SEQUENCE OF OPERATIONS:

1. ALL MODES:
 - A. FUME HOOD EXHAUST FAN TO BE LOCALLY CONTROLLED FROM SWITCH MOUNTED ADJACENT TO FUME HOOD. WHEN SWITCH IS IN THE ON POSITION FUME HOOD EXHAUST FAN SHALL BE ENABLED, RESPECTIVE DAMPER SHALL OPEN, SPACE RETURN AIR DAMPER SHALL CLOSE. EXHAUST AIR DAMPER SHALL BE PROVEN OPEN BEFORE FAN RUNS. IF FAN IS IN RUN MODE AND THE DAMPER IS CLOSED, AN ALARM SHALL BE ACTIVATED.
2. SAFETIES:
 - A. A CURRENT TRANSDUCER SHALL MONITOR EXHAUST FAN STATUS. IF THE EXHAUST FAN RUNS BEYOND A PREDETERMINED TIME PERIOD (ADJUSTABLE) OR RUNS DURING UNOCCUPIED PERIODS AN ALARM SHALL BE GENERATED.
 - B. UPON A FAILURE OF THE FAN, AS SENSED BY A CURRENT SENSING STATUS SWITCH, AN ALARM SHALL BE ACTIVATED.
 - C. PROVIDE SENSOR HOUSING WITH TWIN PLOT LIGHTS - ONE RED FOR ABNORMAL OPERATIONS AND ONE GREEN FOR NORMAL OPERATION. WHEN IN ALARM LIGHT RED LIGHT. DURING NORMAL OPERATION LIGHT GREEN LIGHT. PROVIDE SIGNAGE NEAR LIGHTS AS FOLLOWS "RED LIGHT INDICATES ALARM CONDITION - DO NOT USE HOOD. USE HOOD ONLY IF GREEN LIGHT IS ON".

7 FUME HOOD EXHAUST FAN (EF-300,301,302,303,305,307,509A)
SCALE: NOT TO SCALE

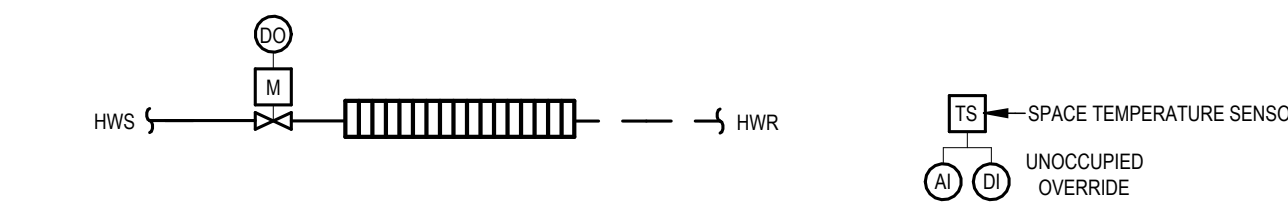


ROOFTOP UNIT SEQUENCE OF OPERATIONS:

A. ROOFTOP UNITS ARE PACKAGED AIR SOURCE HEAT PUMPS WITH AN AUXILIARY GLYCOL HEATING COIL, ENERGY RECOVERY WHEEL WITH WHEEL BYPASS, SUPPLY & EXHAUST FANS ALONG WITH A RECIRCULATION DAMPER. THE SEQUENCE OF OPERATIONS IS AS FOLLOWS:

1. OCCUPIED MODE:
 - A. SUPPLY AND EXHAUST FANS SHALL RUN CONTINUOUSLY. THE EXHAUST DAMPER AND OUTSIDE AIR DAMPER SHALL BE FULLY OPEN WITH THE RE-CIRCULATION DAMPER FULLY CLOSED.
 - B. HEAT RECOVERY WHEEL SHALL OPERATE UNDER THE UNIT CONTROLS AND WILL BE CONTROLLED TO ELIMINATE FROST AS REQUIRED BY OPERATING CONDITIONS.
 - C. UNIT DISCHARGE AIR TEMPERATURE SENSOR SHALL MODULATE THE AIR SOURCE HEAT PUMP SECTION TO MAINTAIN A DISCHARGE AIR TEMPERATURE SETPOINT OF 70 DEG. F IN HEATING AND 75 DEG. F IN COOLING. WHEN AIR SOURCE HEAT PUMP SECTION CANNOT MAINTAIN HEATING SETPOINT MODULATE THE AUXILIARY GLYCOL HEATING CONTROL VALVE AND DUCT MOUNTED GLYCOL HEATING COIL (RTU-3.4 & 5 ONLY).
 - D. MONITOR THE STATUS OF ASSOCIATED FUME HOODS. WHENEVER EITHER ASSOCIATED FUME HOOD EXHAUST FAN IS ENERGIZED IN SPACES SERVED BY THIS ROOFTOP UNIT, EXHAUST FAN AT ROOFTOP UNIT SHALL BE TURNED OFF AND OUTDOOR AIR CONTROLS SHALL REMAIN.
 - E. DURING THE COOLING MODE WHEN THE RETURN AIR ENTHALPY IS HIGHER THAN THE OUTDOOR ENTHALPY, THE UNIT WHEEL BYPASS DAMPERS SHALL OPEN AND THE WHEEL SHALL BE OFF. THE AIR SOURCE HEAT PUMP AND THE AUXILIARY GLYCOL HEATING CONTROL VALVE ARE TO BE OFF OR CLOSED TO THE COIL. ALL TO PROVIDE ECONOMIZER COOLING.
2. DEFROST:
 - A. ENERGY RECOVERY WHEEL SPEED SHALL BE A FUNCTION OF OUTDOOR AIR TEMPERATURE. WHEEL SPEED SHALL MODULATE BETWEEN 2 RPM AT 60 DEG. F AND 20 RPM AT 0 DEG. F. OUTDOOR AIR TEMPERATURE FROM 60 DEG. F TO 70 DEG. F OUTDOOR AIR TEMPERATURE. THE WHEEL SHALL MAINTAIN THE MINIMUM 2 RPM AND ECONOMIZER COOLING SHALL BE ALLOWED. WHEN OUTSIDE AIR TEMPERATURE RISE ABOVE 70 DEG. F THE WHEEL SHALL START TO MODULATE BACK UP TO 20 RPM AT 90 DEG. F. THE WHEEL BYPASS DAMPERS SHALL BE CLOSED UNLESS ECONOMIZER COOLING IS ENABLED.
 - B. DURING WINTER OPERATION, RETURN AIR TEMPERATURE AND HUMIDITY SHALL BE USED TO CALCULATE THE FROST SATURATION TEMPERATURE. THE FROST PROTECTION MODE SHALL ALLOW THE WHEEL SPEED TO BE REDUCED AS REQUIRED TO MAINTAIN AN EXHAUST AIR TEMPERATURE ABOVE THE CALCULATED FROST SATURATION TEMPERATURE. IF THE MINIMUM WHEEL SPEED IS NOT ABLE TO MAINTAIN THE TEMPERATURE TO PREVENT FROST, THE OUTSIDE AIR BYPASS DAMPER SHALL OPEN TO BYPASS THE COLD SIDE OF THE WHEEL.
3. UNOCCUPIED MODE:
 - A. THE SUPPLY AND EXHAUST FANS SHALL BE OFF.
 - B. THE OUTSIDE AIR DAMPER AND EXHAUST AIR DAMPER SHALL BE FULLY CLOSED.
 - C. WHERE SPACE SERVED HAS FINED TUBE RADIATION, THE RADIATION SHALL PROVIDE FIRST OF UNOCCUPIED HEATING.
 - D. ON A DROP IN UNOCCUPIED SPACE HEATING BELOW THE UNOCCUPIED HEATING SETPOINT, CYCLE THE SUPPLY FAN WITH THE RE-CIRCULATION DAMPER FULLY OPEN ALONG WITH MODULATING THE HEAT PUMP SECTION TO MAINTAIN UNOCCUPIED HEATING SETPOINT. IF THE HEAT PUMP SECTION CANNOT MAINTAIN THE UNOCCUPIED HEATING SETPOINT, MODULATE THE AUXILIARY GLYCOL HEATING COIL AND DUCT MOUNTED GLYCOL HEATING COIL (RTU-3.4 & 5 ONLY).
 - E. COOLING WILL BE OFF DURING UNOCCUPIED MODE.
4. WARM-UP / COOL DOWN MODE:
 - A. THE UNIT SHALL START PER OPTIMUM PROGRAM.
 - B. THE OUTSIDE AIR AND EXHAUST AIR FAN AND DAMPER SHALL BE OFF OR FULLY CLOSED.
 - C. THE SUPPLY AIR FAN SHALL BE ON WITH THE RE-CIRCULATION DAMPER FULLY OPEN. THE AIR SOURCE HEAT PUMP AND/OR AUXILIARY GLYCOL HEATING COIL SHALL OPERATE TO BRING THE BUILDING UP OR DOWN TO THE OCCUPIED TEMPERATURE SETPOINT, (75 DEG. F COOLING, 70 DEG. F HEATING) (ADJUSTABLE).
5. SAFETIES:
 - A. PROVIDE AND ALARM IN CASE OF DISCHARGE AIR TEMPERATURE LOW/HIGH LIMITS.
 - B. PROVIDE AND ALARM IN CASE OF SUPPLY AND RETURN FAN FAILURE.
 - C. A FILTER PRESSURE SWITCH SHALL BE PROVIDED FOR EACH FILTER, AND AN ALARM SHALL BE GENERATED WHEN THE PRESSURE DROP ACROSS THE FILTER EXCEEDS THE PREDETERMINED SET POINT.
 - D. PROVIDE AN ALARM IN CASE OF STATIC PRESSURE LOW/HIGH LIMIT.
 - E. TRIGGERING OF CONDENSATE FLOAT SWITCH SHALL SHUT THE UNIT OFF AND GENERATE ALARM.

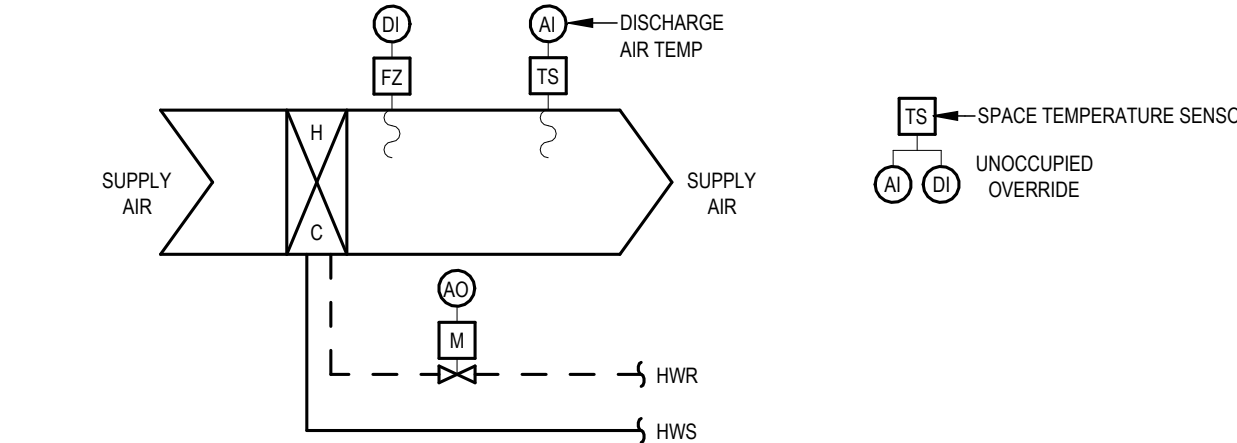
1 ROOFTOP UNIT W/ ERW - HEAT PUMP WITH GLYCOL HEATING COIL (RTU-3,4,5,10A,11A)
SCALE: NOT TO SCALE



FIN TUBE RADIATION - HOT WATER - WITH 2-WAY CONTROL VALVE - SEQUENCE OF OPERATIONS:

1. OCCUPIED MODE:
 - A. WHEN THE SPACE TEMPERATURE IS AT OR BELOW THE OCCUPIED HEATING SETPOINT, THE CONTROL VALVE SHALL OPEN 100% TO MAINTAIN OCCUPIED SPACE SETPOINT.
2. UNOCCUPIED MODE:
 - A. WHEN THE SPACE TEMPERATURE IS AT OR BELOW THE UNOCCUPIED HEATING SETPOINT, THE CONTROL VALVE SHALL OPEN 100% TO MAINTAIN UNOCCUPIED SPACE SETPOINT.
3. WARM-UP MODE:
 - A. WHEN THE SPACE TEMPERATURE IS AT OR BELOW THE OCCUPIED HEATING SETPOINT, THE CONTROL VALVE SHALL OPEN 100% TO MAINTAIN OCCUPIED SPACE SETPOINT.
4. SAFETIES:
 - A. IF THE SPACE TEMPERATURE IS LESS THAN THE HEATING SETPOINT BY 10 DEG. F (ADJUSTABLE), THE CONTROL VALVE SHALL OPEN 100%. AN ALARM SHALL BE ACTIVATED.

3 FIN TUBE RADIATION - HOT WATER WITH TWO-WAY CONTROL VALVE
SCALE: NOT TO SCALE



DUCT MOUNTED HEATING COIL - HOT WATER - SEQUENCE OF OPERATIONS:

1. HEATING MODE:
 - A. WHEN THE SPACE TEMPERATURE IS AT OR BELOW THE HEATING SETPOINT AND THE RELATED FAN SYSTEM HAS BEEN ENABLED, THE 2-WAY CONTROL VALVE SHALL MODULATE TO MAINTAIN SPACE HEATING SETPOINT SUBJECT TO DISCHARGE HIGH LIMIT OF 110 DEG. F (ADJUSTABLE) AND DISCHARGE LOW LIMIT OF 70 DEG. F (ADJUSTABLE).
2. SAFETIES:
 - A. A SEPARATE LOW LIMIT FREEZE STAT WITH AUTOMATIC RESET SHALL BE INSTALLED WITH SENSING ELEMENT SERPENTINED ACROSS THE FACE OF THE COIL. WHENEVER COIL FREEZE-UP CONDITIONS RISE (36 DEG. F ADJUSTABLE) THE SUPPLY FAN SHALL STOP. THE OUTSIDE AIR DAMPER SHALL CLOSE 100% AND THE CONTROL VALVE SHALL OPEN 100%. AN ALARM SHALL ALSO BE ACTIVATED.

2 DUCT MOUNTED HEATING COIL - HOT WATER - VALVE CONTROL
SCALE: NOT TO SCALE

KEY PLAN:

SED NO. 22-04-01-04-0-003-011

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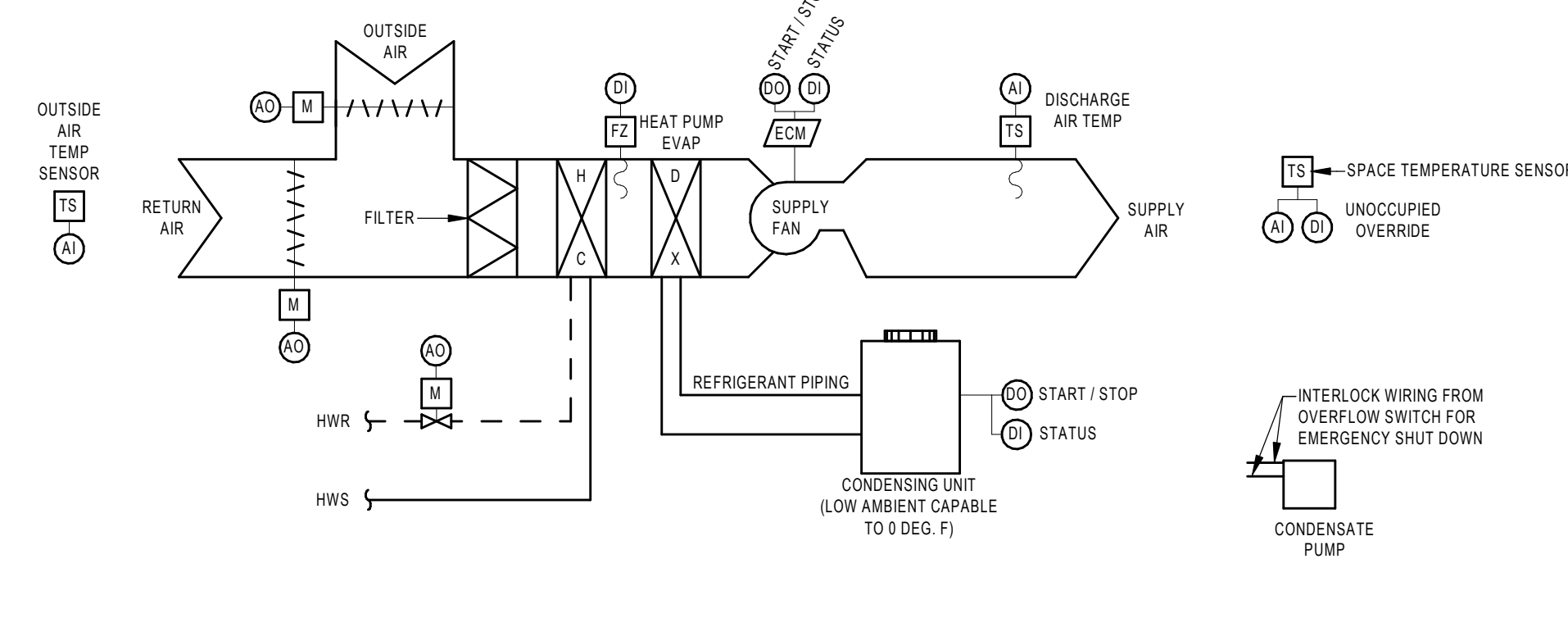
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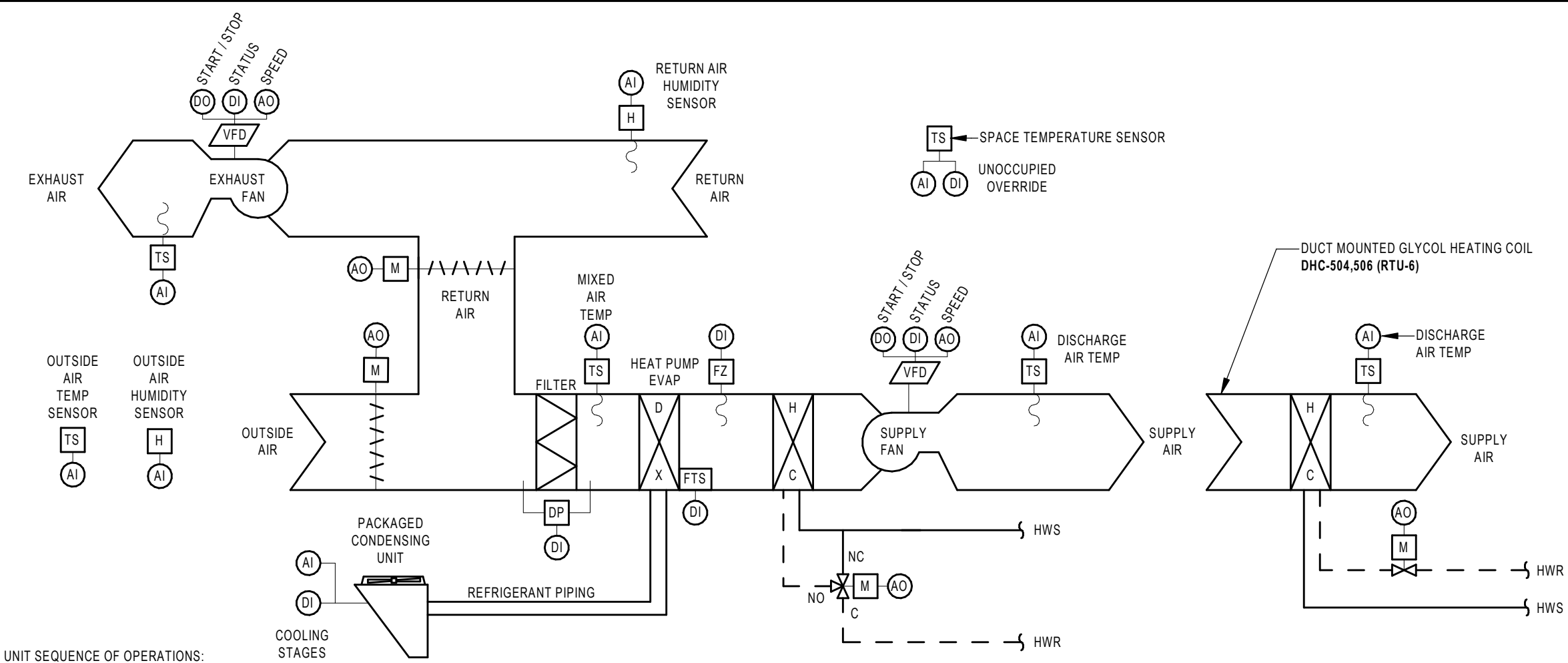
DRAWN BY JVJ/DK	PROJECT NUMBER 2023-105
CHECKED BY JLM	DATE 12/16/2024
MECHANICAL SCHEMATICS	
BUILDING NUMBER HS	SHEET NUMBER M400 BID



UNIT VENTILATOR - HOT WATER (VALVE CONTROL) AND HEAT PUMP EVAPORATOR - SEQUENCE OF OPERATIONS:

- OCCUPIED MODE:**
 - SUPPLY FAN AND ASSOCIATED EXHAUST FAN SHALL RUN CONTINUOUSLY.
 - THE OUTSIDE AIR DAMPER SHALL OPEN TO THE POSITION REQUIRED TO MAINTAIN THE MINIMUM OUTSIDE AIR QUANTITY INDICATED. OUTSIDE AIR DAMPER SHALL NEVER BE POSITIONED BELOW THIS MINIMUM POSITION EXCEPT IN CASE OF ALARM.
 - WHEN THE SPACE TEMPERATURE IS AT OR BELOW THE HEATING SETPOINT, THE HEAT PUMP SECTION SHALL BE CYCLED ON TO MAINTAIN SPACE HEATING SETPOINT SUBJECT TO DISCHARGE HIGH LIMIT OF 110 DEG. F (ADJUSTABLE) AND DISCHARGE LOW LIMIT OF 70 DEG. F (ADJUSTABLE). WHEN AIR SOURCE HEAT PUMP SECTION CANNOT MAINTAIN HEATING SETPOINT, MODULATE THE TWO-WAY GLYCOL HEATING CONTROL VALVE.
 - WHEN THE SPACE TEMPERATURE RISES 3 DEG. F (ADJUSTABLE) ABOVE THE SPACE HEATING SETPOINT, AND THE OUTSIDE AIR TEMPERATURE IS LOWER THAN THE SPACE TEMPERATURE, THE OUTSIDE AIR DAMPER SHALL MODULATE OPEN AND THE ASSOCIATED RELIEF HOOD DAMPER SHALL OPEN TO MAINTAIN THE OCCUPIED SETPOINT. THIS SHALL BE DONE SUBJECT TO DISCHARGE LOW LIMIT OF 55 DEG. F (ADJUSTABLE), AND WITH THE HEATING VALVE FULLY CLOSED.
 - WHEN THE SPACE TEMPERATURE RISES 5 DEG. F (ADJUSTABLE) ABOVE THE COOLING SETPOINT, AND THE OUTSIDE AIR CANNOT COOL THE SPACE, THE RESPECTIVE CONDENSING UNIT SHALL BE CYCLED TO MAINTAIN SPACE TEMPERATURE WITH THE HEATING VALVE FULLY CLOSED. USE 5 DEG. F (ADJUSTABLE) DEADBAND BETWEEN HEATING AND COOLING SETPOINTS.
- UNOCCUPIED MODE:**
 - SUPPLY FAN AND ASSOCIATED EXHAUST FAN SHALL BE OFF.
 - THE OUTSIDE AIR DAMPER AND ASSOCIATED RELIEF HOOD DAMPER SHALL BE FULLY CLOSED.
 - WHERE SPACE HAS FINNED TUBE RADIATION, RADIATION SHALL PROVIDE FIRST STAGE UNOCCUPIED HEATING.
 - ON DROP IN SPACE TEMPERATURE BELOW THE UNOCCUPIED SETPOINT, CYCLE THE FAN ON ALONG WITH MODULATING THE HEAT PUMP SECTION TO MAINTAIN REDUCED SPACE TEMPERATURE. IF THE HEAT PUMP SECTION CANNOT MAINTAIN THE UNOCCUPIED HEATING SETPOINT, MODULATE THE TWO-WAY GLYCOL HEATING CONTROL VALVE. USE 5 DEG. F (ADJUSTABLE) DEADBAND AS REQUIRED TO MINIMIZE SHORT CYCLING.
 - A TIMED LOCAL OVERRIDE CONTROL SHALL ALLOW AN OCCUPANT TO OVERRIDE THE SCHEDULE AND PLACE THE UNIT INTO OCCUPIED MODE FOR 1 HOUR (ADJUSTABLE). AT EXPIRATION OF THIS TIME, CONTROL OF THE UNIT SHALL AUTOMATICALLY RETURN TO THE SCHEDULE.
- WARM-UP MODE:**
 - THE UNIT SHALL START PER AN OPTIMUM START PROGRAM.
 - THE OUTSIDE AIR DAMPER AND ASSOCIATED RELIEF HOOD DAMPER SHALL BE FULLY CLOSED, AND THE ASSOCIATED EXHAUST FAN SHALL BE OFF.
 - THE SUPPLY FAN SHALL RUN AND THE CONTROL VALVE SHALL MODULATE TO MAINTAIN OCCUPIED SETPOINT.
- SAFETIES:**
 - A SEPARATE LOW LIMIT FREEZE STAT WITH AUTOMATIC RESET SHALL BE INSTALLED WITH SENSING ELEMENT SERPENTINED ACROSS THE FACE OF THE COIL; WHENEVER COIL FREEZE-UP CONDITIONS ARISE (36 DEG. F ADJUSTABLE) THE SUPPLY FAN SHALL STOP, THE OUTSIDE AIR DAMPER SHALL CLOSE 100%, AND CONTROL VALVE SHALL OPEN 100%. AN ALARM SHALL ALSO BE ACTIVATED.
 - WHERE CONDENSATE PUMP IS PROVIDED, INTERLOCK WIRING SHALL DISABLE CONDENSING UNIT WHEN CONDENSATE PUMP HAS FAILED OR ITS OVERFLOW SWITCH IS TRIPPED.

3 UNIT VENTILATOR - HOT GLYCOL VALVE CONTROL AND HEAT PUMP (UV-304A,306A,309A,600A)
SCALE: NOT TO SCALE

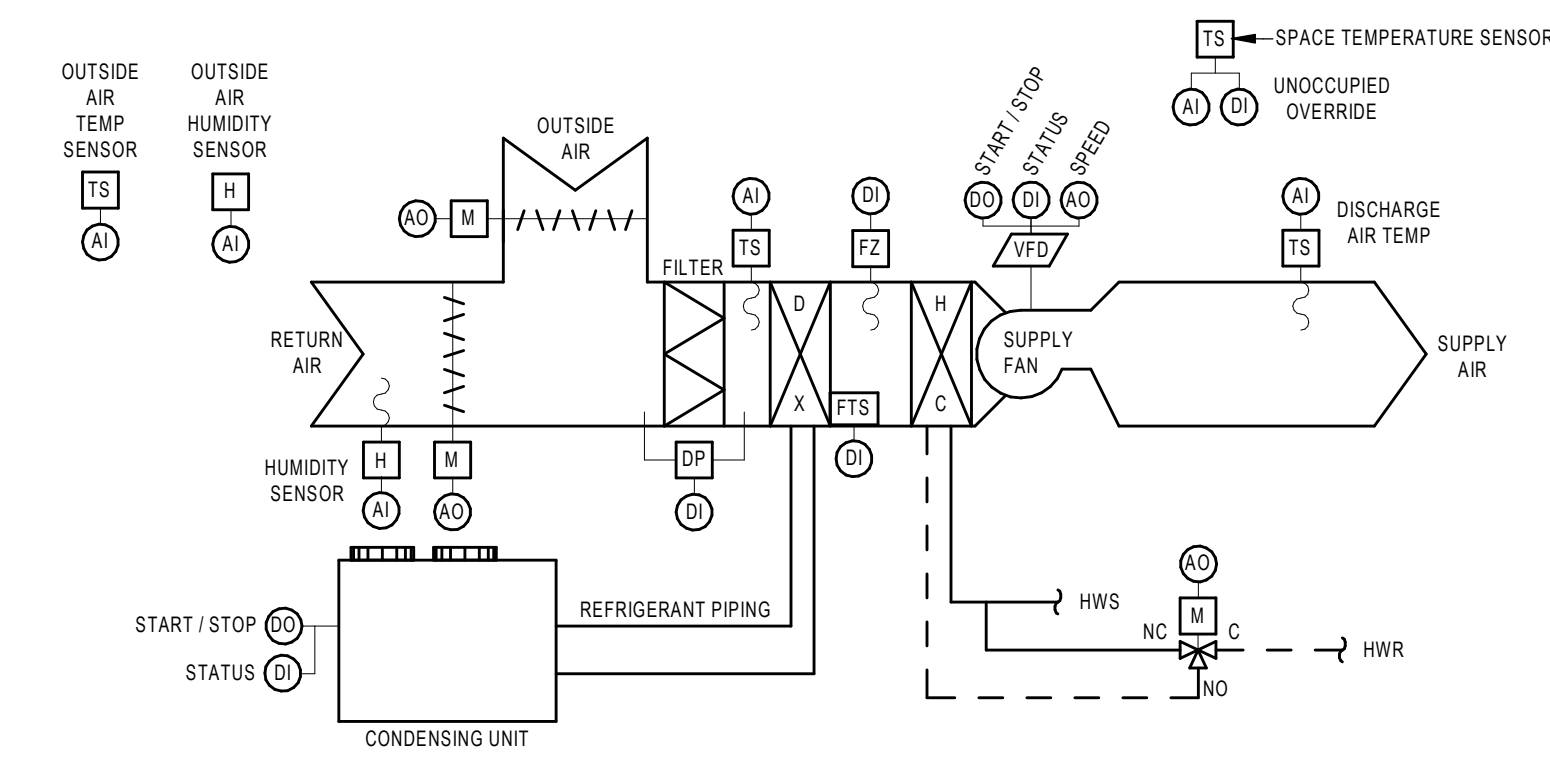


ROOFTOP UNIT SEQUENCE OF OPERATIONS:

A ROOFTOP UNIT IS PACKAGED AIR SOURCE HEAT PUMP WITH AN AUXILIARY GLYCOL HEATING COIL, SUPPLY & EXHAUST FANS. THE SEQUENCE OF OPERATIONS IS AS FOLLOWS:

- OCCUPIED MODE:**
 - SUPPLY AND EXHAUST FANS SHALL RUN CONTINUOUSLY AT THE FREQUENCIES DETERMINED BY THE BALANCING CONTRACTOR.
 - THE OUTSIDE AIR AND RETURN AIR DAMPERS SHALL OPEN TO THE POSITION REQUIRED TO MAINTAIN THE MINIMUM OUTSIDE AIR QUANTITY INDICATED. OUTSIDE AIR DAMPER SHALL NEVER BE POSITIONED BELOW THIS MINIMUM POSITION EXCEPT IN CASE OF ALARM.
 - WHEN THE SPACE TEMPERATURE IS AT OR BELOW THE HEATING SETPOINT, THE HEAT PUMP SHALL BE CYCLED ON TO MAINTAIN SPACE HEATING SETPOINT SUBJECT TO DISCHARGE HIGH LIMIT OF 110 DEG. F (ADJUSTABLE) AND DISCHARGE LOW LIMIT OF 70 DEG. F (ADJUSTABLE). WHEN AIR SOURCE HEAT PUMP SECTION CANNOT MAINTAIN HEATING SETPOINT, MODULATE THE AUXILIARY GLYCOL HEATING CONTROL VALVE AND DUCT MOUNTED GLYCOL HEATING COIL (RTU-6 ONLY).
 - WHEN THE SPACE TEMPERATURE RISES 3 DEG. F (ADJUSTABLE) ABOVE THE SPACE HEATING SETPOINT, AND THE OUTSIDE AIR ENTHALPY IS LOWER THAN THE SPACE ENTHALPY, THE OUTSIDE AIR DAMPER SHALL MODULATE OPEN, THE EXHAUST FAN SHALL BE ON, AND THE RETURN DAMPER SHALL MODULATE CLOSED TO MAINTAIN THE SPACE SETPOINT. THIS SHALL BE DONE SUBJECT TO LOW LIMIT OF 55 DEG. F (ADJUSTABLE) AND WITH THE GLYCOL HEATING VALVE FULLY CLOSED TO THE COIL.
 - WHEN THE SPACE TEMPERATURE IS 3 DEG. F (ADJUSTABLE) ABOVE THE COOLING SETPOINT, AND THE OUTSIDE AIR CANNOT COOL THE SPACE, THE RESPECTIVE HEAT PUMP SHALL BE CYCLED TO MAINTAIN SPACE TEMPERATURE WITH THE GLYCOL HEATING VALVE FULLY CLOSED TO THE COIL. USE 5 DEG. F (ADJUSTABLE) DEADBAND BETWEEN HEATING AND COOLING SETPOINTS.
- UNOCCUPIED MODE:**
 - THE SUPPLY AND EXHAUST FANS SHALL BE OFF.
 - THE OUTSIDE AIR DAMPER SHALL BE FULLY CLOSED, AND THE RETURN AIR DAMPER SHALL BE FULLY OPEN.
 - WHERE SPACE HAS FINNED TUBE RADIATION, RADIATION SHALL PROVIDE FIRST STAGE UNOCCUPIED HEATING.
 - ON A DROP IN UNOCCUPIED SPACE HEATING BELOW THE UNOCCUPIED HEATING SETPOINT, CYCLE THE SUPPLY FAN ON ALONG WITH MODULATING THE HEAT PUMP SECTION TO MAINTAIN UNOCCUPIED HEATING SETPOINT. IF THE HEAT PUMP SECTION CANNOT MAINTAIN THE UNOCCUPIED HEATING SETPOINT, MODULATE THE AUXILIARY GLYCOL HEATING COIL AND DUCT MOUNTED GLYCOL HEATING COIL (RTU-6 ONLY). USE 5 DEG. F (ADJUSTABLE) DEADBAND TO MINIMIZE SHORT CYCLING.
 - WHEN THE SPACE TEMPERATURE RISES ABOVE THE UNOCCUPIED ECONOMIZER COOLING SETPOINT, ALLOW ECONOMIZER COOLING WITH THE GLYCOL HEATING VALVE FULLY CLOSED TO THE COIL AND THE MECHANICAL COOLING DISABLED.
 - A TIMED LOCAL OVERRIDE CONTROL SHALL ALLOW AN OCCUPANT TO OVERRIDE THE SCHEDULE AND PLACE THE UNIT INTO OCCUPIED MODE FOR 1 HOUR (ADJUSTABLE). AT EXPIRATION OF THIS TIME, CONTROL OF THE UNIT SHALL AUTOMATICALLY RETURN TO THE SCHEDULE.
- WARM-UP MODE:**
 - THE UNIT SHALL START PER AN OPTIMUM START PROGRAM.
 - THE OUTSIDE AIR DAMPER SHALL BE FULLY CLOSED, EXHAUST FAN SHALL BE OFF, AND THE RETURN AIR DAMPER SHALL BE FULLY OPEN.
 - THE SUPPLY FAN SHALL BE ON WITH THE GLYCOL HEATING CONTROL VALVE OPEN OR THE COOLING SECTION ON TO BRING THE BUILDING UP OR DOWN TO THE OCCUPIED TEMPERATURE SETPOINT. (75 DEG. F COOLING, 70 DEG. F HEATING) (ADJUSTABLE)
- SAFETIES:**
 - DIFFERENTIAL PRESSURE ACROSS THE AIR FILTERS SHALL GENERATE AN ALARM WHENEVER THE DIFFERENTIAL PRESSURE EXCEEDS ITS ADJUSTABLE SETPOINT.
 - A SEPARATE LOW LIMIT FREEZE STAT WITH AUTOMATIC RESET SHALL BE INSTALLED WITH SENSING ELEMENT SERPENTINED ACROSS THE FACE OF THE COIL. WHENEVER FREEZE-UP CONDITIONS ARISE (36 DEG. F ADJUSTABLE) THE SUPPLY AND EXHAUST FAN SHALL STOP, THE OUTSIDE AIR DAMPERS SHALL CLOSE 100%, THE GLYCOL HEATING CONTROL VALVE SHALL OPEN 100% TO THE COIL AND AN ALARM SHALL BE ACTIVATED.
 - A RISE IN SPACE HUMIDITY ABOVE THE SPACE HUMIDITY ALARM SETPOINT 70% RH (ADJUSTABLE) SHALL GENERATE A ALARM.
 - A DROP IN ANY SPACE TEMPERATURE BELOW THE LOW SPACE TEMPERATURE ALARM OF 67 DEG. F (ADJUSTABLE) SHALL GENERATE A ALARM.
 - TRIGGERING OF CONDENSATE FLOAT SWITCH SHALL SHUT THE UNIT OFF AND GENERATE ALARM.

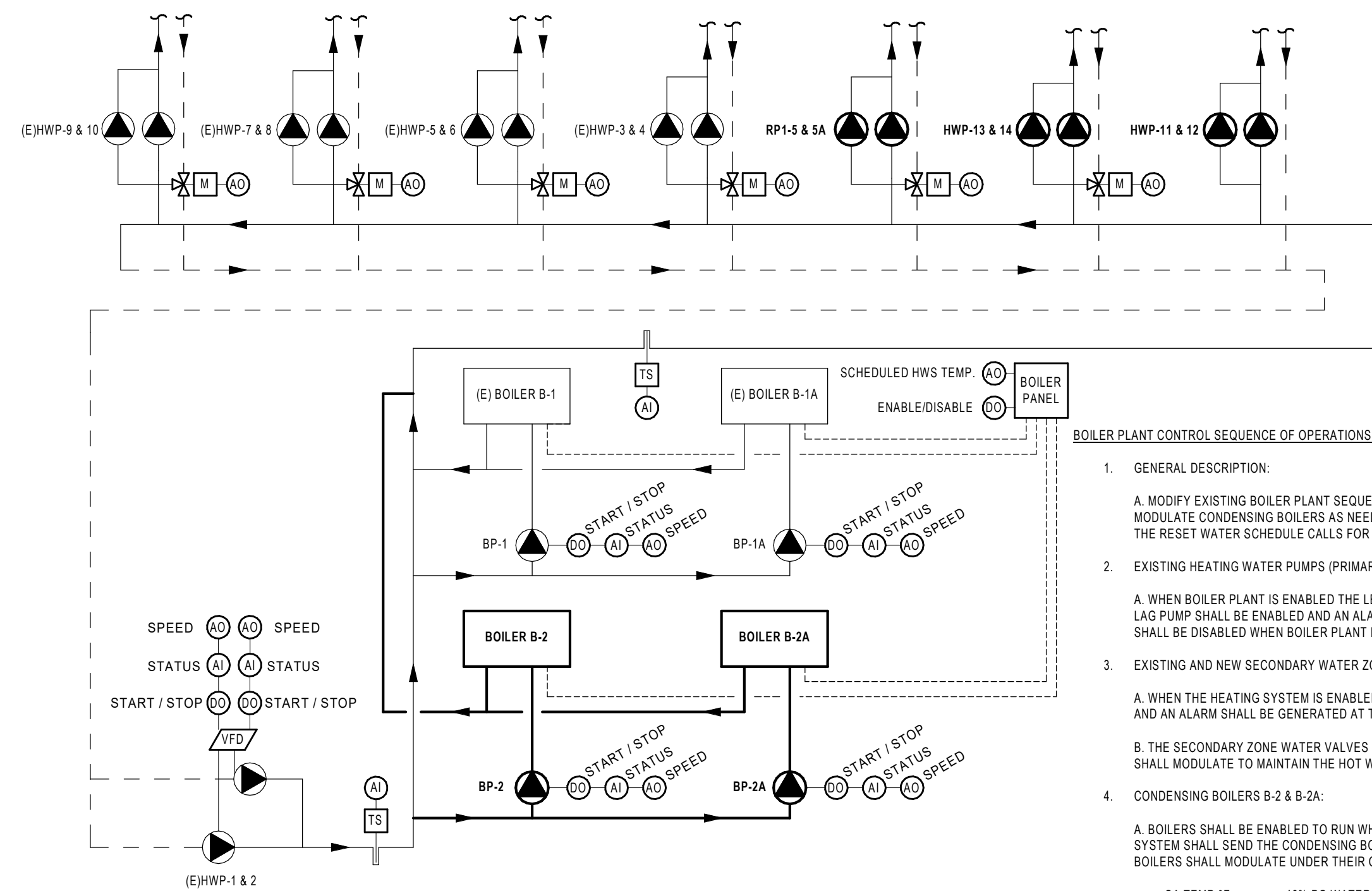
1 ROOFTOP UNIT - HEAT PUMP WITH GLYCOL HEATING COIL (RTU-1,2,6,7,8A,9A)
SCALE: NOT TO SCALE



AIR HANDLING UNIT - HOT WATER (3-WAY VALVE CONTROL) AND DX COOLING - SEQUENCE OF OPERATIONS:

- OCCUPIED MODE:**
 - SUPPLY FAN AND ASSOCIATED EXHAUST FAN SHALL RUN CONTINUOUSLY. THE SUPPLY FAN SHALL RUN AT THE FREQUENCY DETERMINED BY THE BALANCING CONTRACTOR.
 - THE OUTSIDE AIR DAMPER SHALL OPEN TO THE POSITION REQUIRED TO MAINTAIN THE MINIMUM OUTSIDE AIR QUANTITY INDICATED. OUTSIDE AIR DAMPER SHALL NEVER BE POSITIONED BELOW THIS MINIMUM POSITION EXCEPT IN CASE OF ALARM.
 - WHEN THE SPACE TEMPERATURE IS AT OR BELOW THE HEATING SETPOINT, THE HEATING CONTROL VALVE SHALL MODULATE TO MAINTAIN SPACE HEATING SETPOINT SUBJECT TO DISCHARGE HIGH LIMIT OF 110 DEG. F (ADJUSTABLE) AND DISCHARGE LOW LIMIT OF 70 DEG. F (ADJUSTABLE).
 - WHEN THE SPACE TEMPERATURE RISES 3 DEG. F (ADJUSTABLE) ABOVE THE SPACE HEATING SETPOINT, AND THE OUTSIDE AIR ENTHALPY IS LOWER THAN THE SPACE ENTHALPY, THE OUTSIDE AIR DAMPER SHALL MODULATE OPEN AND THE ASSOCIATED RELIEF DAMPER SHALL OPEN TO MAINTAIN THE OCCUPIED SETPOINT. THIS SHALL BE DONE SUBJECT TO LOW LIMIT OF 55 DEG. F (ADJUSTABLE), AND WITH THE HEATING VALVE FULLY CLOSED TO HEAT.
 - WHEN THE SPACE TEMPERATURE RISES 5 DEG. F (ADJUSTABLE) ABOVE THE COOLING SETPOINT, AND THE OUTSIDE AIR CANNOT COOL THE SPACE, THE RESPECTIVE CONDENSING UNIT SHALL BE CYCLED TO MAINTAIN SPACE TEMPERATURE WITH THE HEATING VALVE FULLY CLOSED. USE 5 DEG. F (ADJUSTABLE) DEADBAND BETWEEN HEATING AND COOLING SETPOINTS.
- UNOCCUPIED MODE:**
 - THE SUPPLY AND ASSOCIATED EXHAUST FAN SHALL BE OFF.
 - THE OUTSIDE AIR DAMPER AND THE ASSOCIATED RELIEF DAMPER SHALL BE FULLY CLOSED, AND THE RETURN AIR DAMPER SHALL BE FULLY OPEN.
 - WHERE SPACE HAS FINNED TUBE RADIATION, RADIATION SHALL PROVIDE FIRST STAGE UNOCCUPIED HEATING.
 - ON DROP IN SPACE TEMPERATURE BELOW THE UNOCCUPIED HEATING SETPOINT, CYCLE THE FAN ON AND THE HEATING CONTROL VALVE FULL OPEN AS REQUIRED TO MAINTAIN REDUCED SPACE TEMPERATURE. USE 5 DEG. F (ADJUSTABLE) DEADBAND TO MINIMIZE SHORT CYCLING.
 - WHEN THE SPACE TEMPERATURE RISES ABOVE THE UNOCCUPIED ECONOMIZER COOLING SETPOINT, ALLOW ECONOMIZER COOLING WITH THE HEATING VALVES FULLY CLOSED AND THE MECHANICAL COOLING DISABLED.
 - A TIMED LOCAL OVERRIDE CONTROL SHALL ALLOW AN OCCUPANT TO OVERRIDE THE SCHEDULE AND PACE THE UNIT INTO OCCUPIED MODE FOR 1 HOUR (ADJUSTABLE). AT EXPIRATION OF THIS TIME, CONTROL OF THE UNIT SHALL AUTOMATICALLY RETURN TO THE SCHEDULE.
- WARM-UP MODE:**
 - THE UNIT SHALL START PER AN OPTIMUM START PROGRAM.
 - THE OUTSIDE AIR DAMPER AND THE ASSOCIATED RELIEF DAMPER SHALL BE FULLY CLOSED, THE RETURN AIR DAMPER SHALL BE FULLY OPEN AND THE ASSOCIATED EXHAUST FAN SHALL BE OFF.
 - THE SUPPLY FAN SHALL RUN AND THE HEATING CONTROL VALVE SHALL MODULATE TO MAINTAIN OCCUPIED SETPOINT.
- SAFETIES:**
 - DIFFERENTIAL PRESSURE ACROSS THE AIR FILTERS SHALL GENERATE AN ALARM WHENEVER THE DIFFERENTIAL PRESSURE EXCEEDS ITS ADJUSTABLE SETPOINT.
 - A SEPARATE LOW LIMIT FREEZE STAT WITH AUTOMATIC RESET SHALL BE INSTALLED WITH SENSING ELEMENT SERPENTINED ACROSS THE DISCHARGE FACE OF THE COIL; WHENEVER FREEZE-UP CONDITIONS ARISE (36 DEG. F ADJUSTABLE) THE SUPPLY FAN SHALL STOP, THE OUTSIDE AIR DAMPER SHALL CLOSE 100%, THE HEATING CONTROL VALVE SHALL OPEN 100% TO HEAT AND AN ALARM SHALL BE ACTIVATED.
 - A RISE IN SPACE HUMIDITY ABOVE THE SPACE HUMIDITY ALARM SETPOINT 70% RH (ADJUSTABLE) SHALL GENERATE A ALARM.
 - A DROP IN ANY SPACE TEMPERATURE BELOW THE LOW SPACE TEMPERATURE ALARM OF 67 DEG. F (ADJUSTABLE) SHALL GENERATE A ALARM.
 - TRIGGERING OF CONDENSATE FLOAT SWITCH SHALL SHUT THE UNIT OFF AND GENERATE ALARM.

4 AIR HANDLING UNIT - DX WITH GLYCOL HEATING COIL (AHU-1A,2A)
SCALE: NOT TO SCALE



BOILER PLANT CONTROL SEQUENCE OF OPERATIONS:

- GENERAL DESCRIPTION:**
 - MODIFY EXISTING BOILER PLANT SEQUENCE TO INCORPORATE (2) HIGH EFFICIENT CONDENSING BOILERS. STAGE THE TWO CONDENSING BOILERS ON FIRST, MODULATE CONDENSING BOILERS AS NEEDED TO MAINTAIN HOT WATER LOOP RESET SCHEDULE. WHEN THE HEATING LOAD REQUIRES ADDITIONAL CAPACITY AND THE RESET WATER SCHEDULE CALLS FOR 180°F STAGE ON EXISTING BOILERS TO MAINTAIN THE WATER TEMPERATURE AT 180°F (ADJ).
- EXISTING HEATING WATER PUMPS (PRIMARY PUMPS):**
 - WHEN BOILER PLANT IS ENABLED THE LEAD PUMP SHALL BE ENABLED AND RUN CONTINUOUSLY. UPON FAILURE OF LEAD PUMP AS SENSED BY PUMP STATUS, LAG PUMP SHALL BE ENABLED AND AN ALARM SHALL BE ACTIVATED AT THE OWS. WHEN BOILER PLANT IS ENERGIZED THE PUMP SHALL REMAIN ENABLED. PUMPS SHALL BE DISABLED WHEN BOILER PLANT IS DISABLED.
- EXISTING AND NEW SECONDARY WATER ZONE VALVES AND PUMPS:**
 - WHEN THE HEATING SYSTEM IS ENABLED THE LEAD SECONDARY ZONE PUMP SHALL BE ENABLED. IF THE LEAD PUMP FAILS THE LAG PUMP SHALL BE ENABLED AND AN ALARM SHALL BE GENERATED AT THE OWS.
 - THE SECONDARY ZONE WATER VALVES SHALL BE POSITIONED TO FULL FLOW FROM THE PRIMARY LOOP TO THE SECONDARY LOOP. NEW CONDENSING BOILERS SHALL MODULATE TO MAINTAIN THE HOT WATER RESET SCHEDULE.
- CONDENSING BOILERS B-2 & B-2A:**
 - BOILERS SHALL BE ENABLED TO RUN WHENEVER THE OUTSIDE AIR TEMPERATURE IS BELOW 60°F (ADJUSTABLE). WHEN ENABLED THE BUILDING CONTROL SYSTEM SHALL SEND THE CONDENSING BOILER CONTROL PANEL A SIGNAL INDICATING THE SUPPLY WATER TEMPERATURE TO BE MAINTAINED. THE CONDENSING BOILERS SHALL MODULATE UNDER THEIR OWN CONTROLS TO MAINTAIN THE FOLLOWING OUTDOOR AIR RESET WATER SCHEDULE:

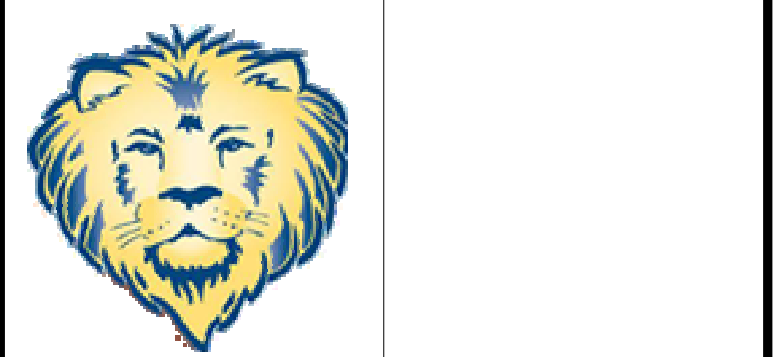
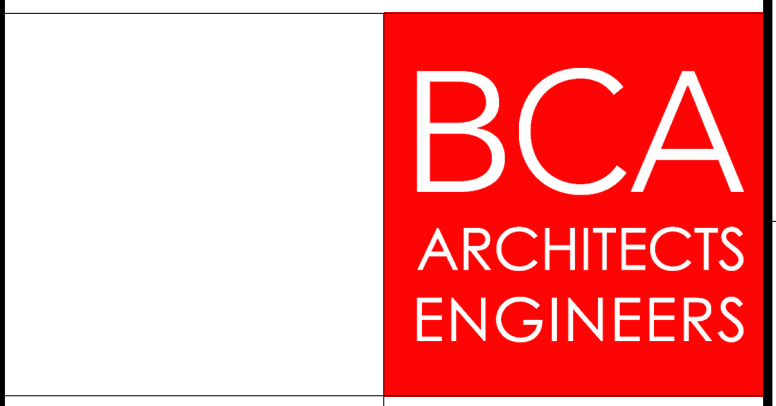
OUT. TEMP. °F OR BELOW	40% PG WATER SUPPLY TEMP. °F
10	170°F
20	160°F
30	150°F
40 OR HIGHER	140°F

 - WHENEVER A BOILER IS ENABLED ITS ASSOCIATED BOILER PUMP SHALL BE ENABLED. DISABLE PUMP WHENEVER ITS ASSOCIATED BOILER IS DISABLED AFTER A 15 MINUTE RUN TIME.
- EXISTING BOILERS B-1 & B-1A:**
 - WHENEVER THE CONDENSING BOILERS CAN NOT MAINTAIN THE BOILER LOOP WATER TEMPERATURE ENABLE EACH BOILER AS NEEDED TO MAINTAIN THE PRIMARY LOOP TEMPERATURE OF 180°F (ADJUSTABLE).
 - WHENEVER A BOILER IS ENABLED ITS ASSOCIATED BOILER PUMP SHALL BE ENABLED. DISABLE PUMP WHENEVER ITS ASSOCIATED BOILER IS DISABLED AFTER A 15 MINUTE RUN TIME.
- OTHER EXISTING BOILER PLAN CONTROLS:**
 - ANY OTHER EQUIPMENT NOT AFFECTED WITH THE ADDITION OF THE CONDENSING BOILERS SHALL REMAIN AS CURRENTLY CONTROLLED.

2 BOILER CONTROL SCHEMATIC
SCALE: NOT TO SCALE

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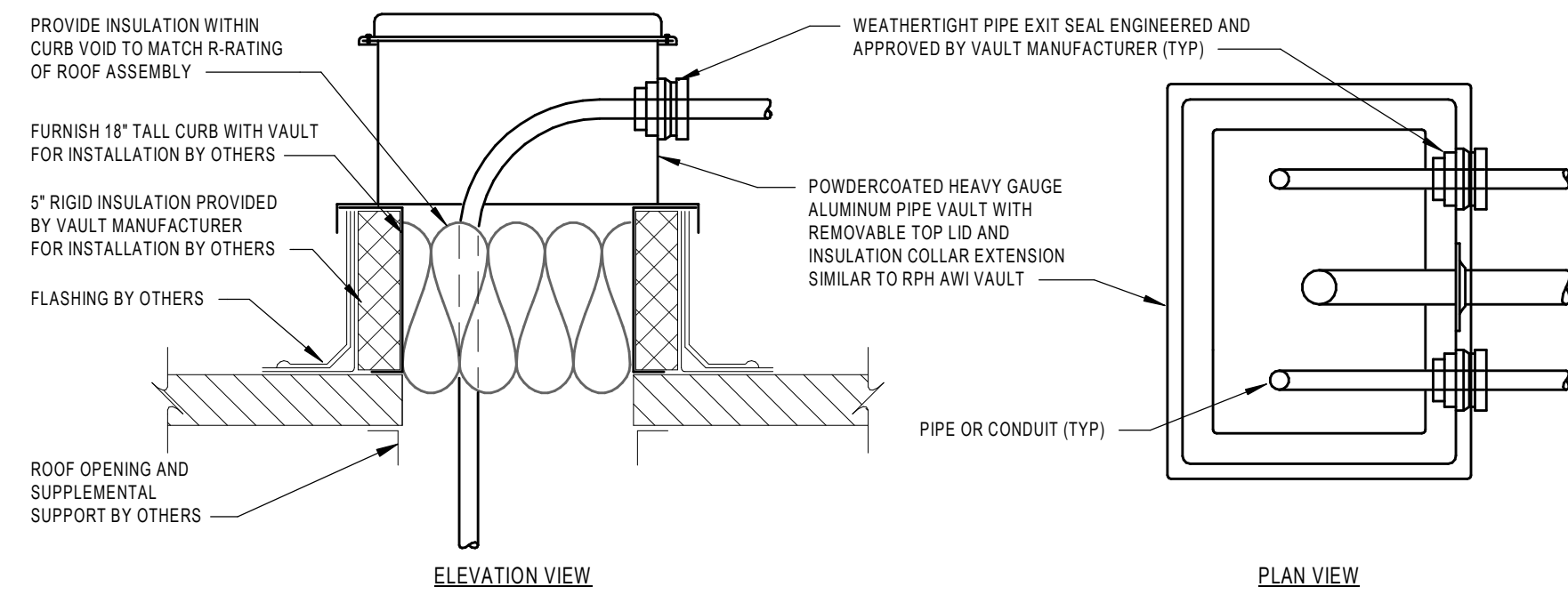


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REV	DATE	DESCRIPTION

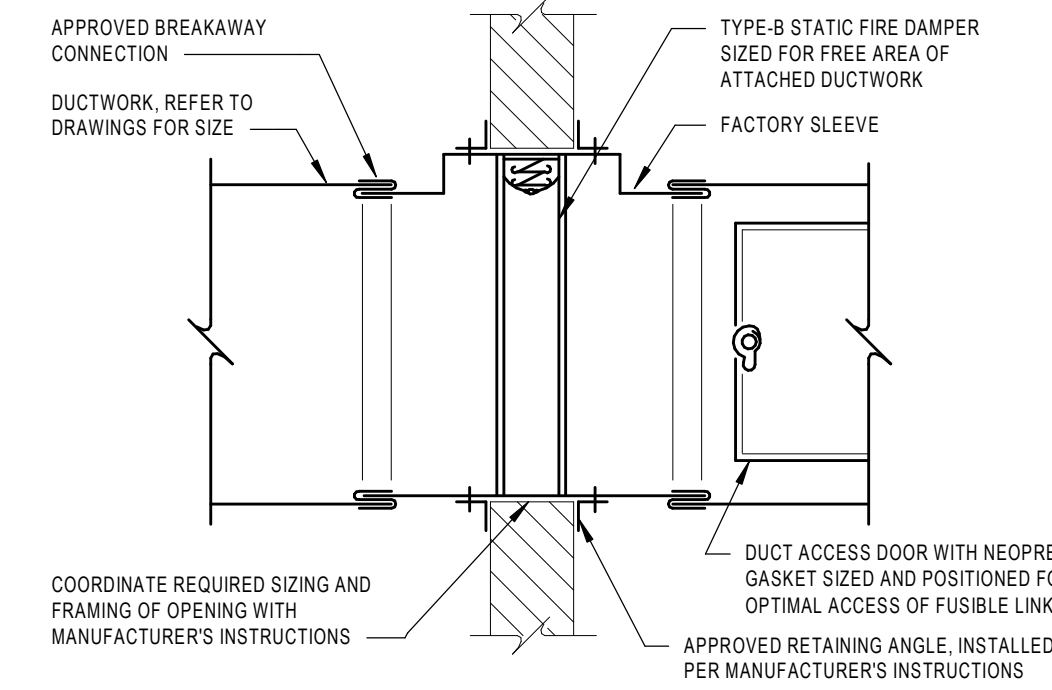
DRAWN BY: JVG/DK PROJECT NUMBER: 2023-105
CHECKED BY: JLM DATE: 12/16/2024
MECHANICAL SCHEMATICS

BUILDING NUMBER: **HS** SHEET NUMBER: **M401**
BID



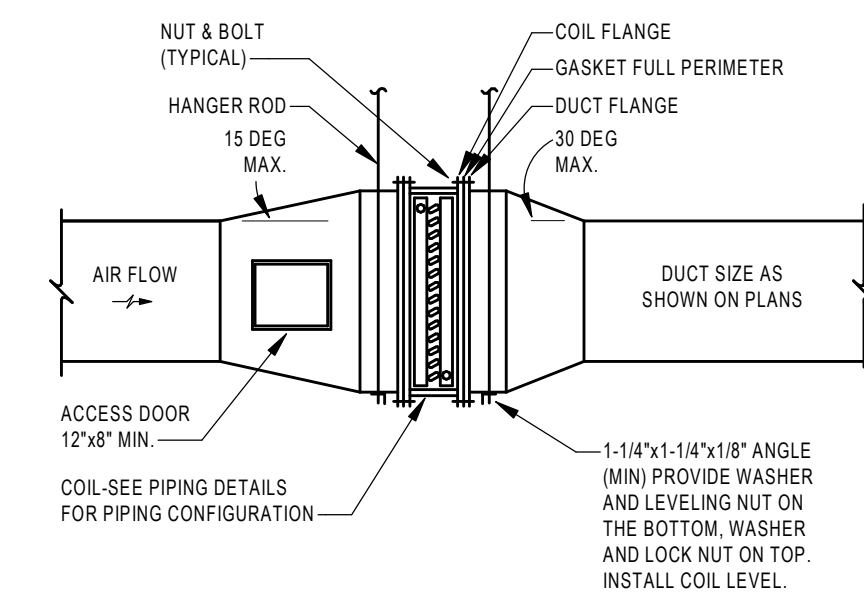
NOTES:
 1. FURNISH CURB, CURB INSULATION AND PIPE VAULT FOR INSTALLATION AND FLASHING BY OTHERS. FURNISH AND INSTALL PIPE SEALS AND INTERNAL INSULATION.
 2. COORDINATE REQUIRED QUANTITY OF PIPE AND CONDUIT PENETRATIONS WITH ASSOCIATED EQUIPMENT. PROVIDE VAULT AND CURB SIZED FOR THIS QUANTITY AND THREE (3) FUTURE PENETRATIONS. COORDINATE REQUIRED SIZE AND INSTALL ASSOCIATED SEAL(S) FOR POWER AND CONTROL CONDUIT.

15 ROOF PIPE PENETRATION VAULT
 SCALE: NOT TO SCALE



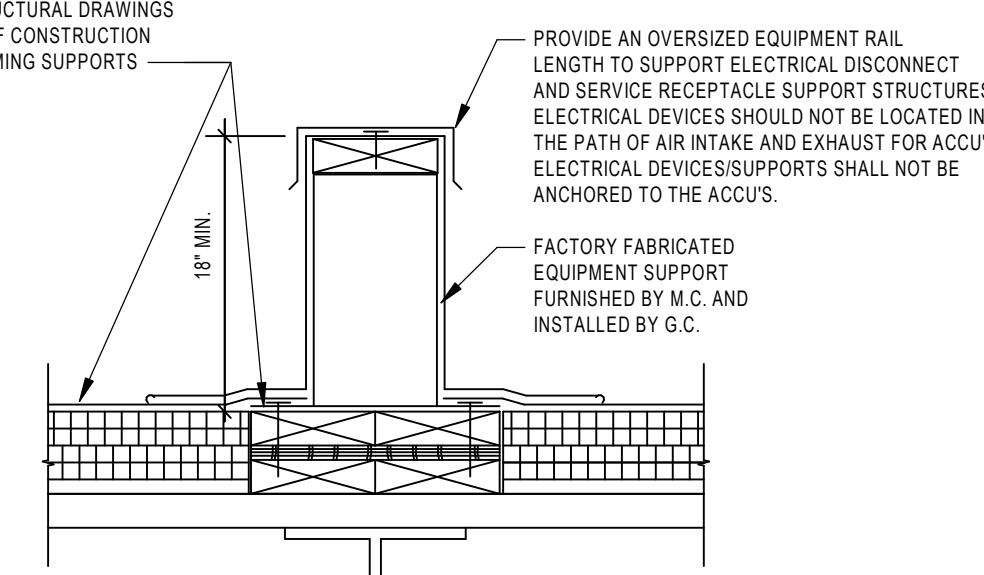
NOTE:
 1. DETAIL IS FOR REFERENCE ONLY. PROVIDE DAMPER CONSTRUCTED AND TESTED FOR ASSEMBLY BEING PENETRATED. COORDINATE FRAMING AND INSTALL DAMPERS AS REQUIRED BY MANUFACTURER'S APPROVED AND TESTED INSTALLATION INSTRUCTIONS.
 2. PROVIDE REMOVABLE DUCT SECTION IN LIEU OF ACCESS DOOR FOR DUCTWORK LESS THAN 14". ACCESS SECTION SHALL BE FLANGED FOR DRAW TYPE LATCHES AND FEATURE NEOPRENE GASKET AND LABEL.

11 VERTICAL FIRE DAMPER
 SCALE: NOT TO SCALE



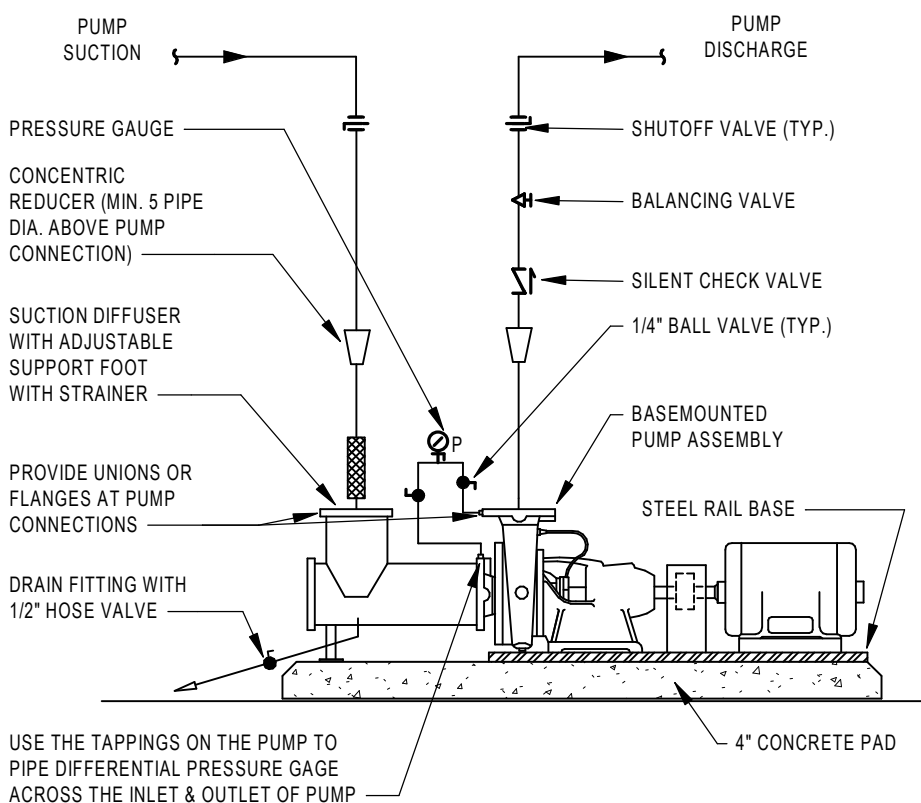
NOTE:
 1. COORDINATE LOCATION OF ROOF SUPPORTS WITH CONTRACTOR RESPONSIBLE FOR STRUCTURAL STEEL SUPPORTS.

6 DUCT MOUNTED HEATING COIL
 SCALE: NOT TO SCALE



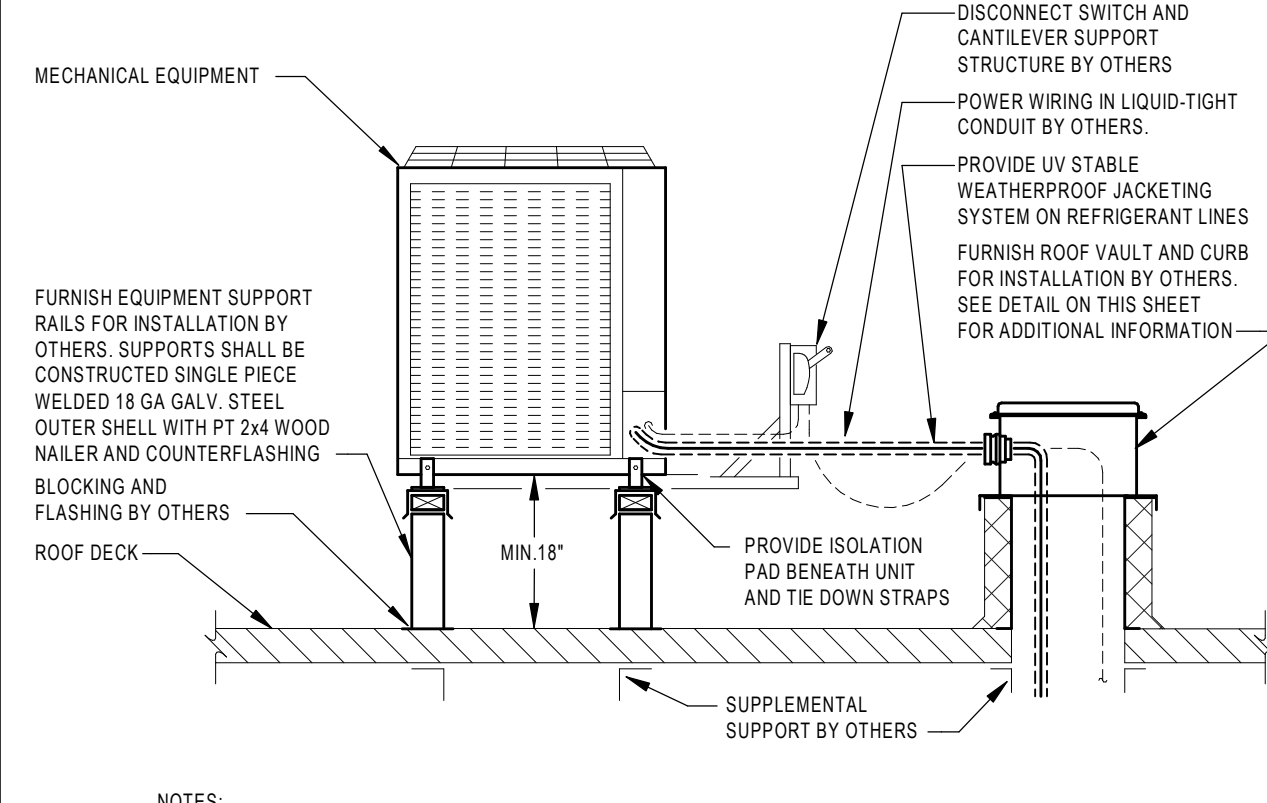
NOTE:
 1. COORDINATE ROOF OPENING LOCATION AND SIZE WITH CONTRACTOR RESPONSIBLE FOR ROOFING WORK AND FOR STRUCTURAL STEEL SUPPORTS.

1 ROOF EQUIPMENT SUPPORT
 SCALE: NOT TO SCALE



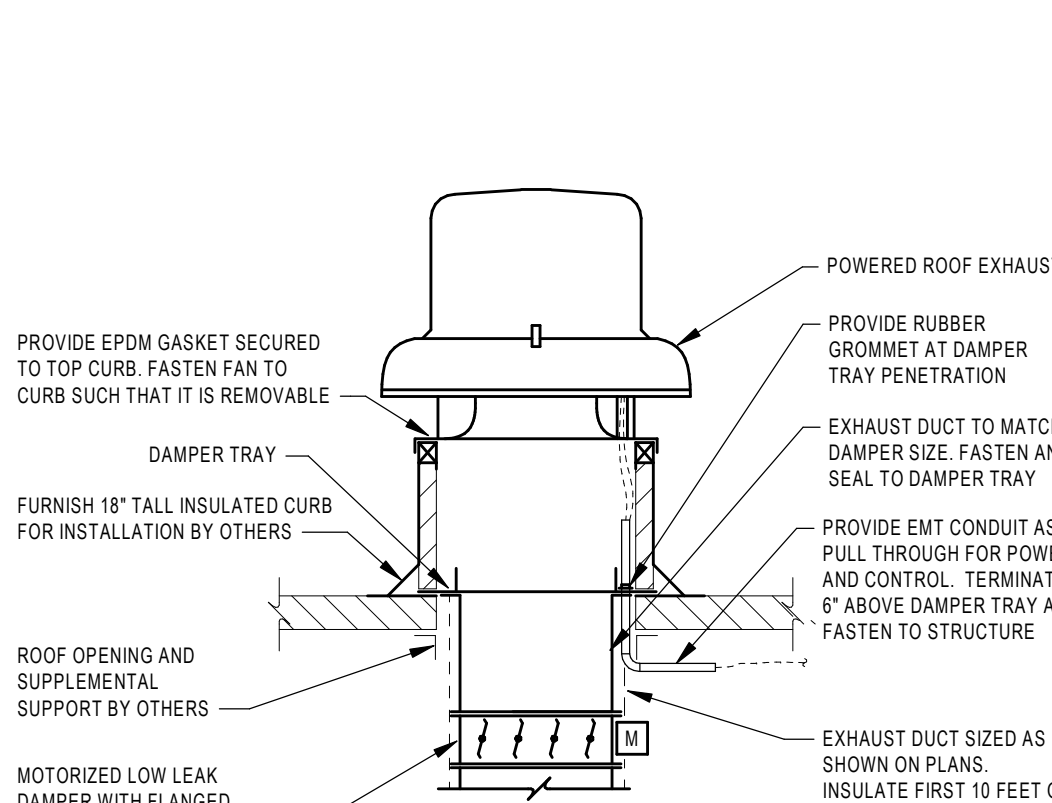
NOTE:
 1. TRIPLE DUTY VALVES MAY BE USED IN LIEU OF BALANCE STATION AND CHECK VALVE. SEPARATE SHUT-OFF VALVE REQUIRED.
 2. SUPPORT PIPING INDEPENDENTLY OF PUMP AND SUCTION DIFFUSER.
 3. SHIM AND GROUT PER SPECIFICATIONS.

17 BASE MOUNTED PUMP
 SCALE: NOT TO SCALE



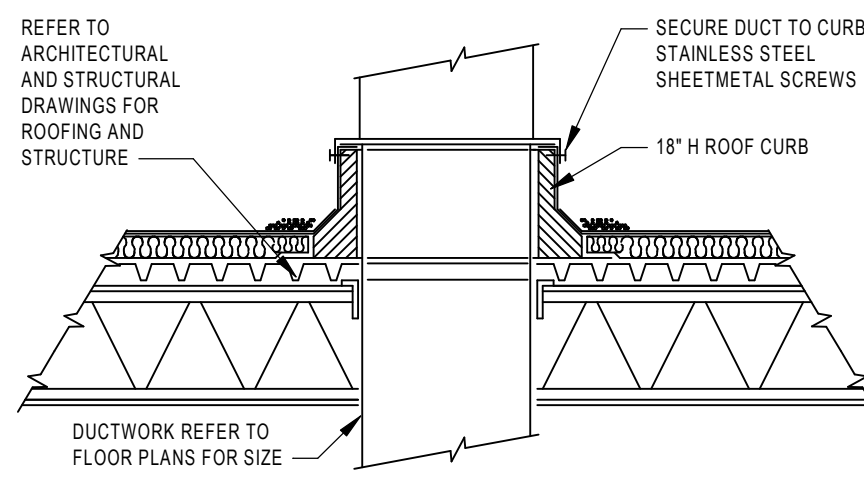
NOTE:
 1. UNLESS OTHERWISE INDICATED, EQUIPMENT SUPPORTS SHALL EXTEND 18" PAST FRONT AND BACK OF EQUIPMENT.
 2. WHERE PIPING OR CONDUIT SPANS MORE THAN 4 FEET BETWEEN ROOF VAULT AND EQUIPMENT, PROVIDE SUPPLEMENTAL SUPPORT BY MEANS OF ADDITIONAL SUPPORT RAILS OR UNISTRUT CANTILEVER SUPPORT.

16 ROOF EQUIPMENT SUPPORT
 SCALE: NOT TO SCALE

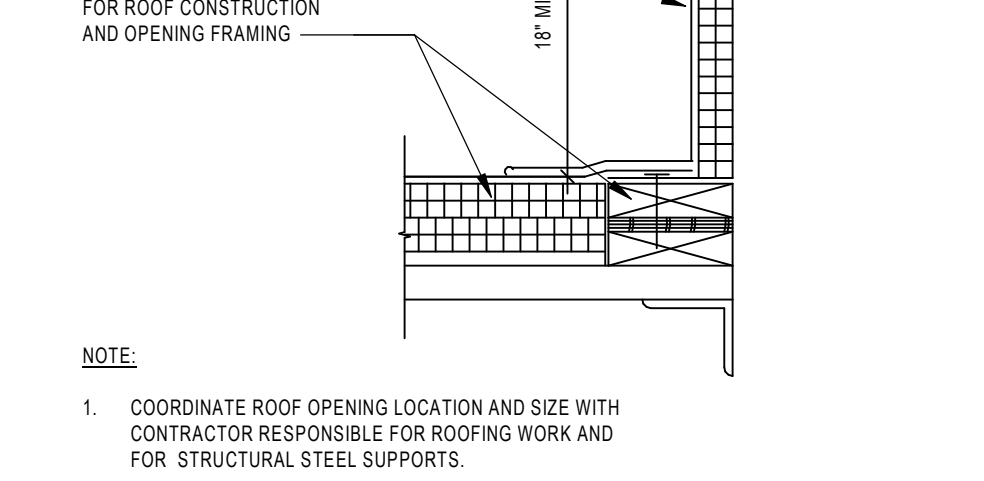


NOTE:
 1. UNLESS OTHERWISE INDICATED, EQUIPMENT SUPPORTS SHALL EXTEND 18" PAST FRONT AND BACK OF EQUIPMENT.
 2. WHERE PIPING OR CONDUIT SPANS MORE THAN 4 FEET BETWEEN ROOF VAULT AND EQUIPMENT, PROVIDE SUPPLEMENTAL SUPPORT BY MEANS OF ADDITIONAL SUPPORT RAILS OR UNISTRUT CANTILEVER SUPPORT.

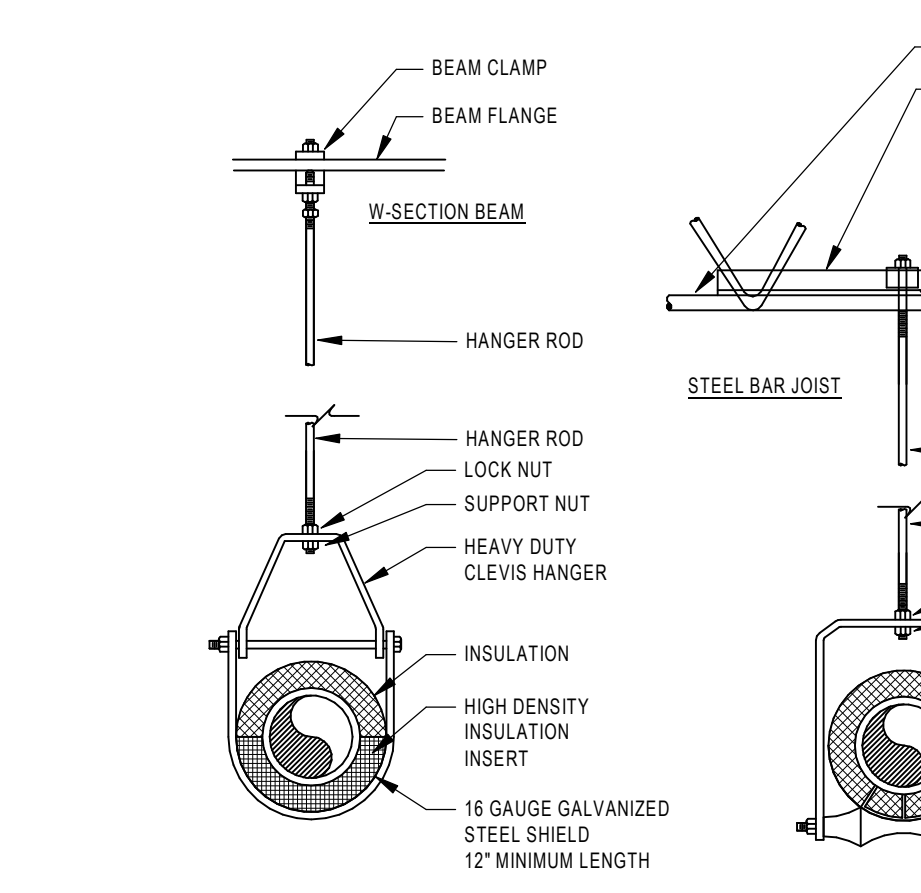
12 POWERED ROOF EXHAUSTER
 SCALE: NOT TO SCALE



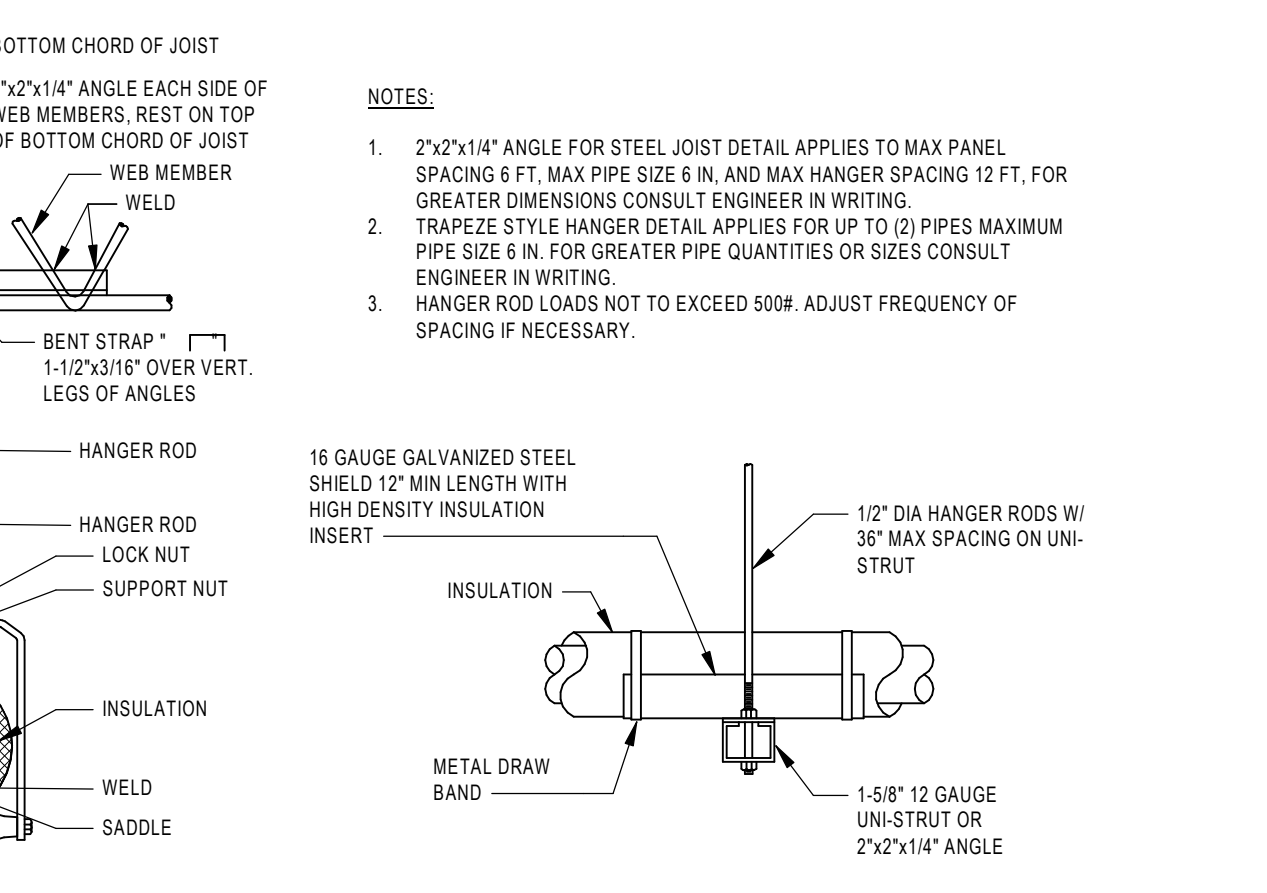
7 DUCT ROOF PENETRATION
 SCALE: NOT TO SCALE



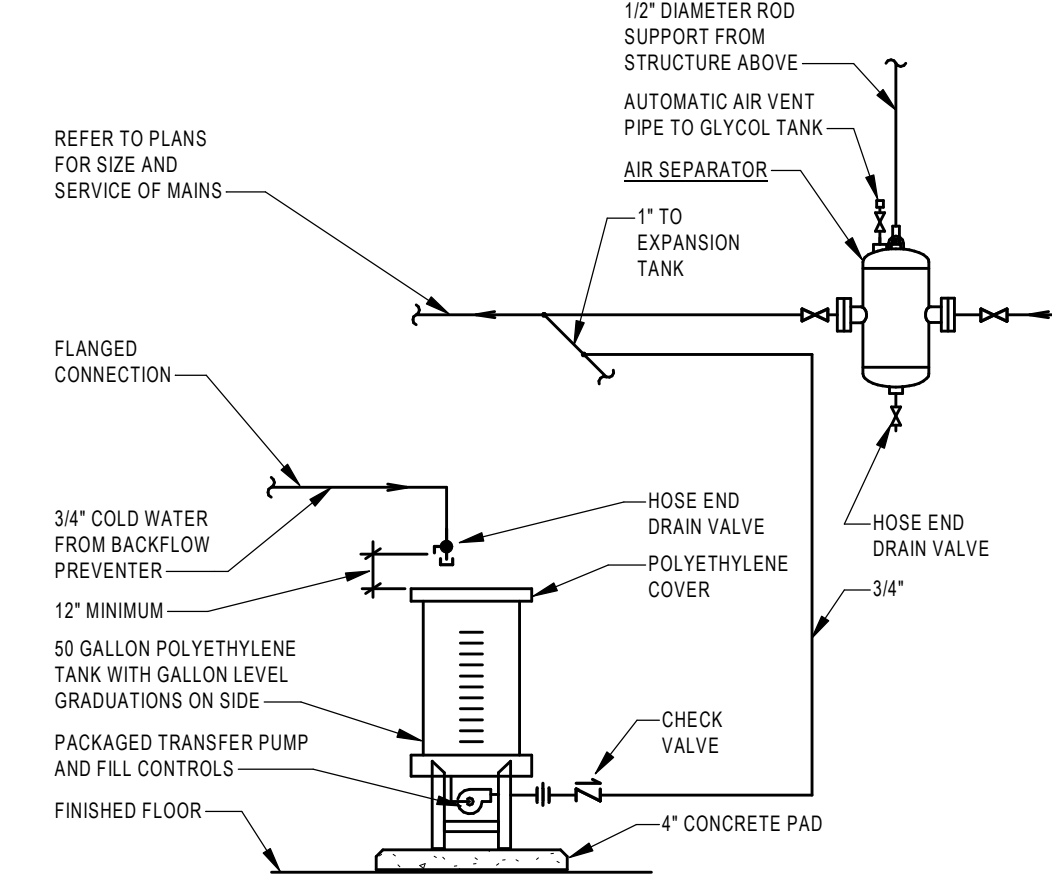
2 ROOF CURB
 SCALE: NOT TO SCALE



ADJUSTABLE CLEVIS HANGER



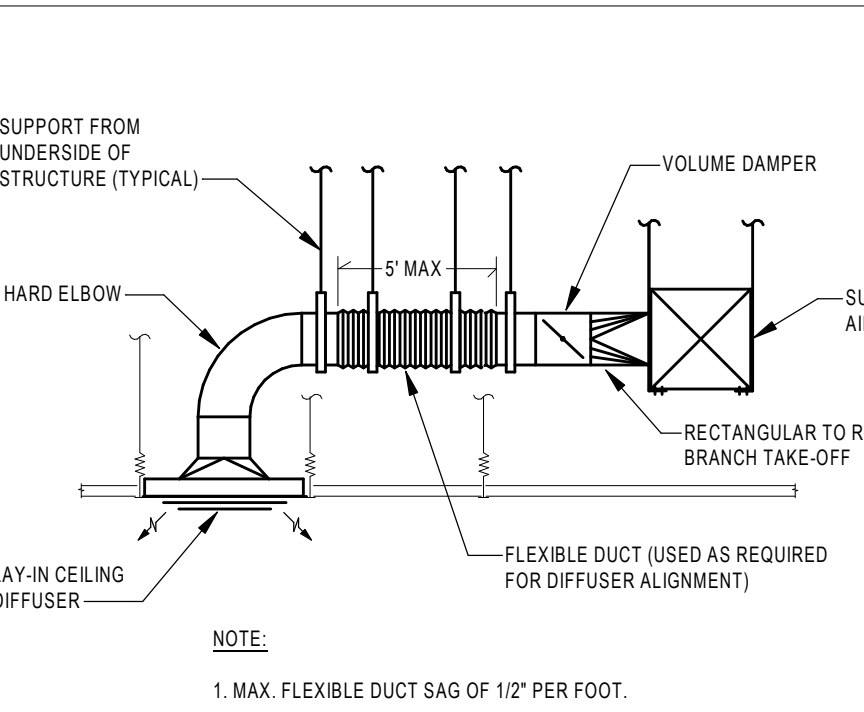
ADJUSTABLE ROLLER HANGER



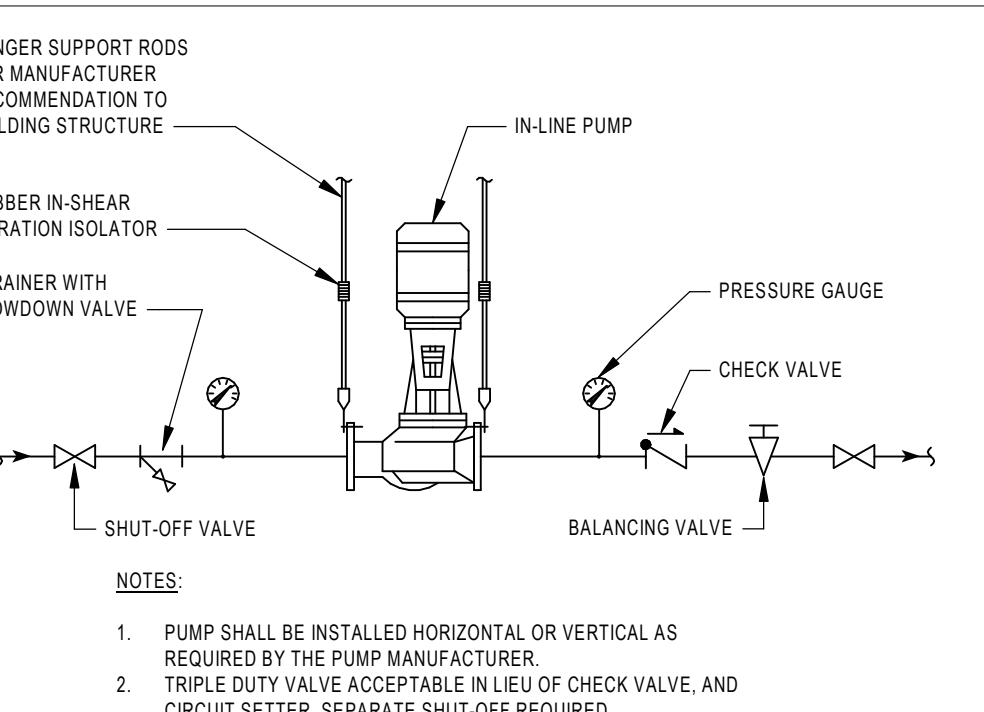
TRAPEZE STYLE HANGER

NOTES:
 1. 2"x2"x1/4" ANGLE FOR STEEL JOIST DETAIL APPLIES TO MAX PANEL SPACING 6 FT. MAX PIPE SIZE 6 IN. AND MAX HANGER SPACING 12 FT. FOR GREATER DIMENSIONS CONSULT ENGINEER IN WRITING.
 2. TRAPEZE STYLE HANGER DETAIL APPLIES FOR UP TO (2) PIPES MAXIMUM PIPE SIZE 6 IN. FOR GREATER PIPE QUANTITIES OR SIZES CONSULT ENGINEER IN WRITING.
 3. HANGER ROD LOADS NOT TO EXCEED 500#. ADJUST FREQUENCY OF SPACING IF NECESSARY.

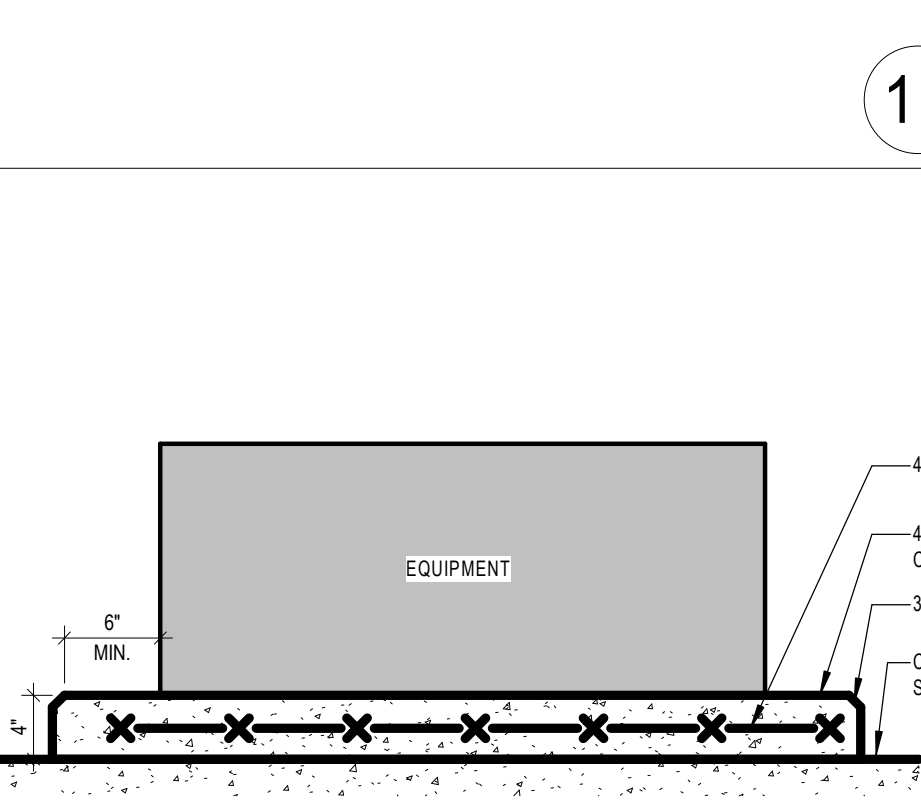
18 PIPE HANGERS
 SCALE: NOT TO SCALE



8 BRANCHLINE DIFFUSER
 SCALE: NOT TO SCALE

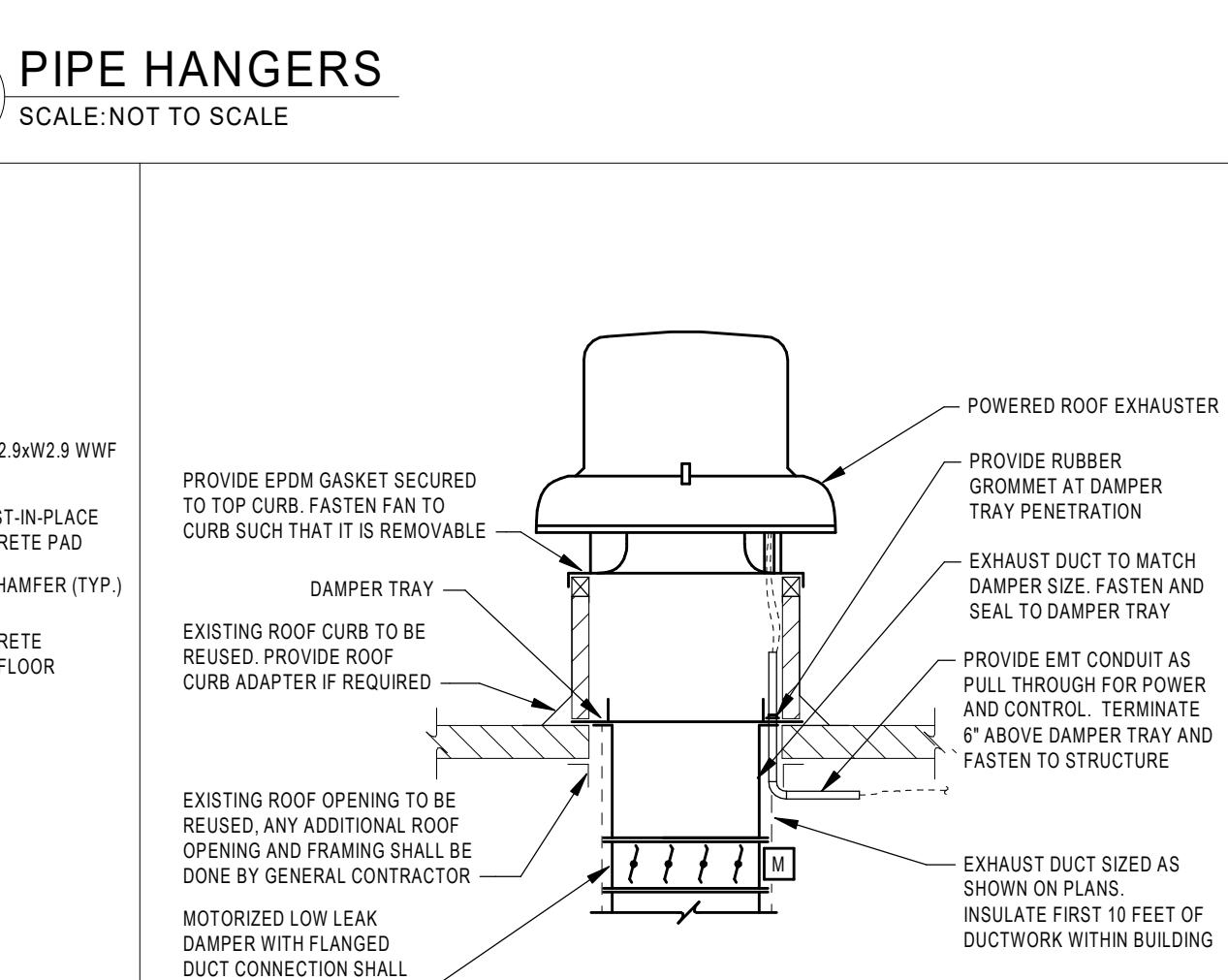


3 IN-LINE PUMP
 SCALE: NOT TO SCALE

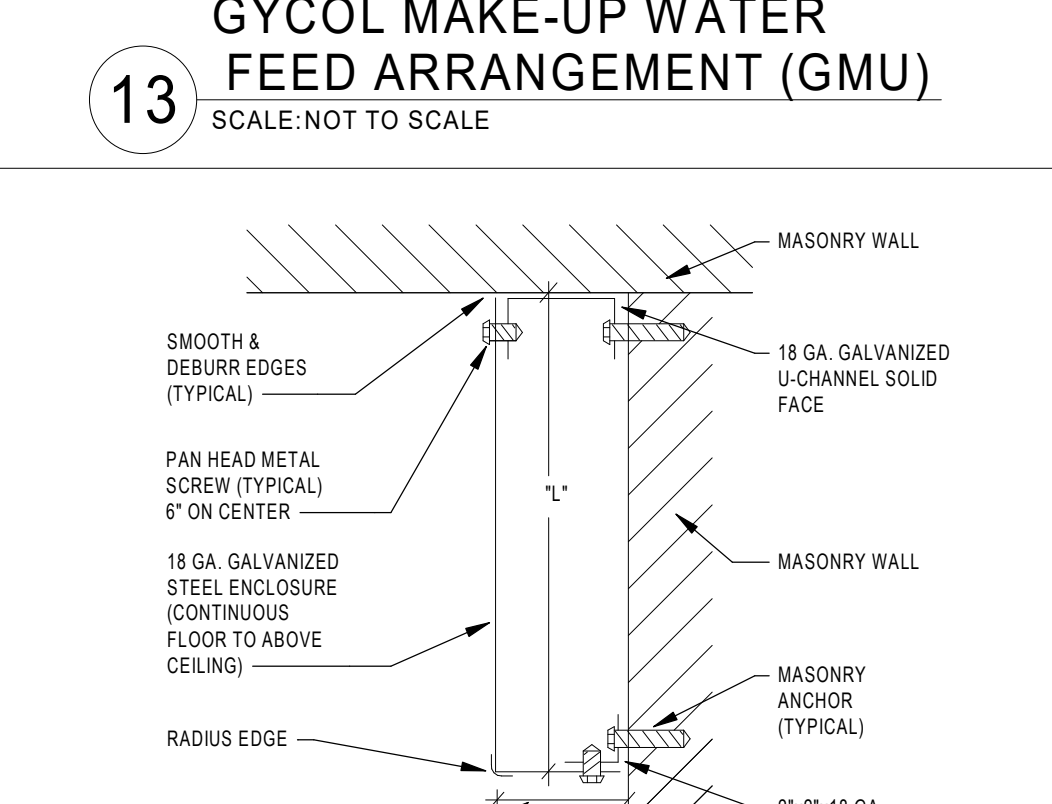


EQUIPMENT PAD NOTES:
 1. CONTRACTOR RESPONSIBLE FOR PROVIDING INTERIOR EQUIPMENT PADS FOR MECHANICAL EQUIPMENT.
 2. CLEAN AND ROUGHEN CONCRETE SLAB. APPLY EPOXY BONDING AGENT TO CONTACT SURFACE PRIOR TO INSTALLATION OF PAD.
 3. SIZE PAD FOR A MINIMUM OF 6" OR GREATER CLEARANCE FROM SIDE OF EQUIPMENT AND EDGE OF PAD.

20 TYPICAL EQUIPMENT PAD
 SCALE: NOT TO SCALE

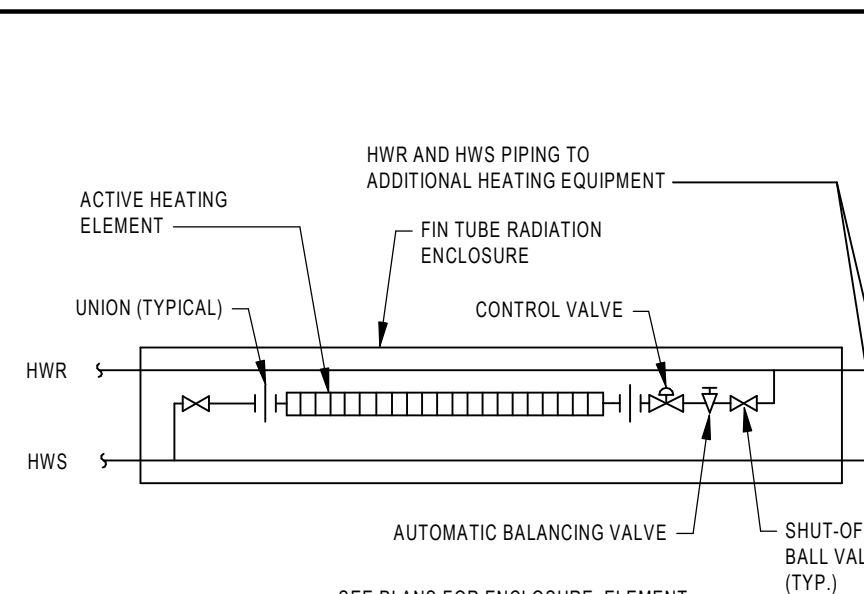


19 POWERED ROOF EXHAUSTER - EXISTING ROOF CURB
 SCALE: NOT TO SCALE

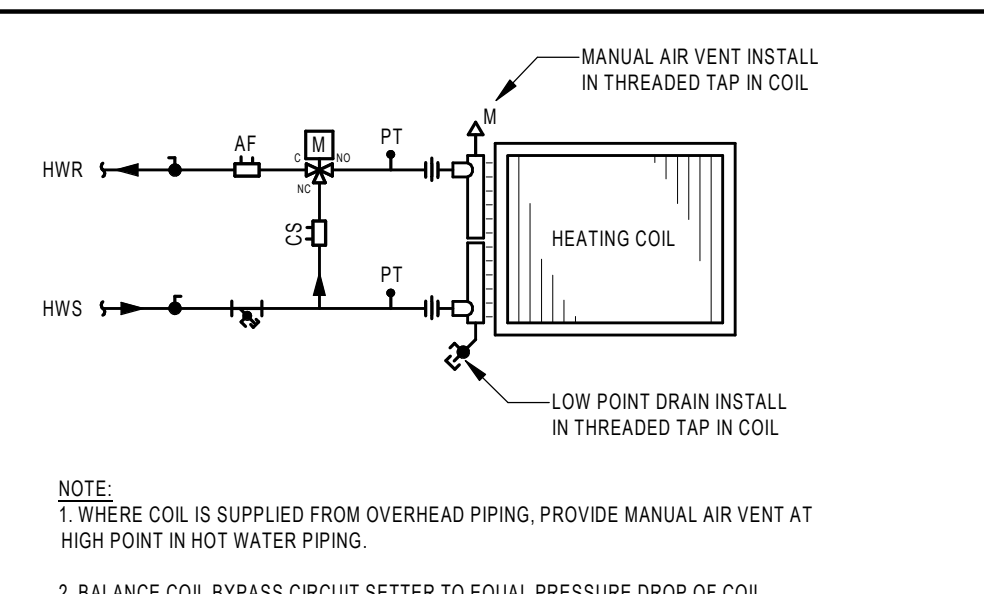


NOTE:
 1. LENGTH 1" SMALL MATCH UNIT VENT SHELVING WIDTH WHERE APPLICABLE MINIMUM 1" DIMENSION SHALL BE 8" OR TO SUIT INSULATED HEATING PIPING.
 2. PRIME ALL METAL SURFACES AND FINISH PAINT TO COATS. COLOR PER ARCHITECT.

14 VERTICAL PIPE ENCLOSURE
 SCALE: NOT TO SCALE



9 H.W. FIN TUBE RADIATION PIPING SCHEMATIC (VALVE CONROL)
 SCALE: NOT TO SCALE

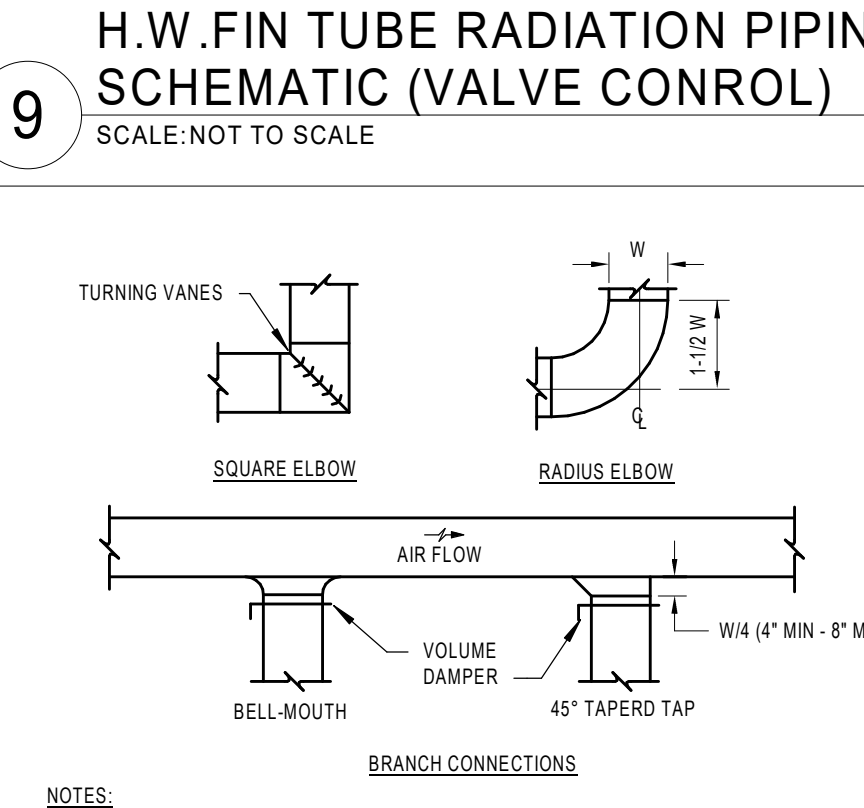


4 HOT WATER HEATING COIL PIPING SCHEMATIC (AHU, RTU)
 SCALE: NOT TO SCALE

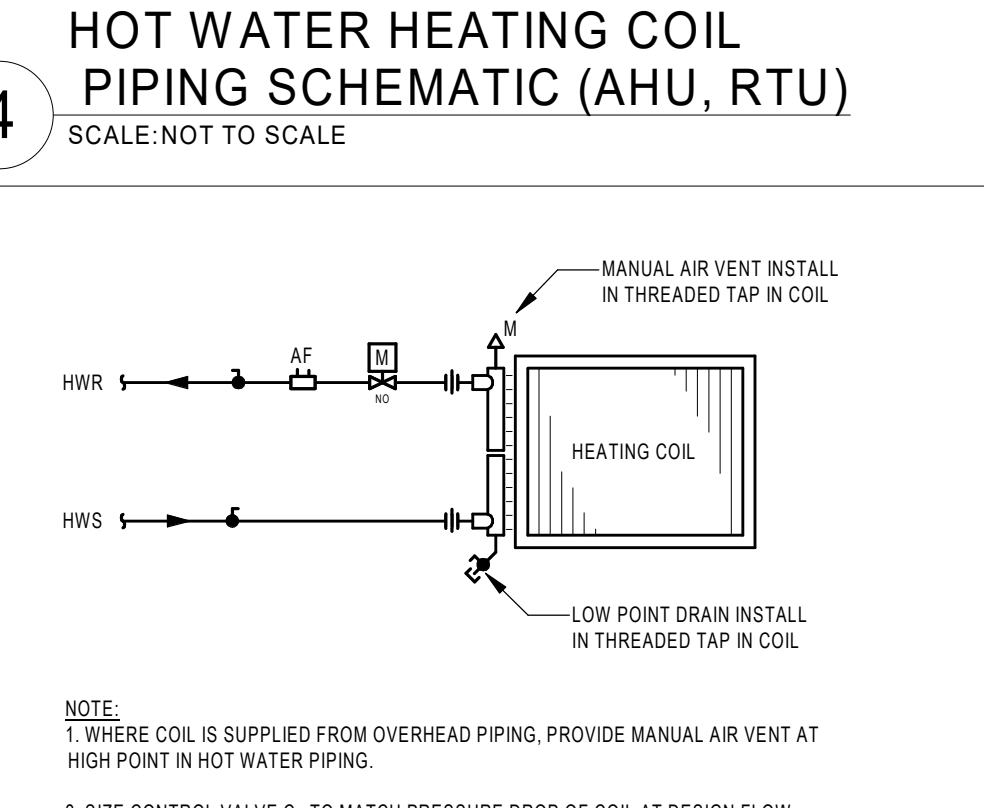
20 TYPICAL EQUIPMENT PAD
 SCALE: NOT TO SCALE

19 POWERED ROOF EXHAUSTER - EXISTING ROOF CURB
 SCALE: NOT TO SCALE

14 VERTICAL PIPE ENCLOSURE
 SCALE: NOT TO SCALE



10 DUCTWORK FITTINGS
 SCALE: NOT TO SCALE

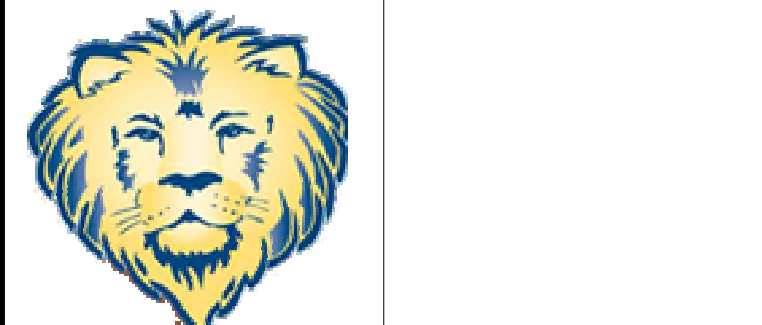


5 HOT WATER HEATING COIL PIPING SCHEMATIC (DHC, UV)
 SCALE: NOT TO SCALE

KEY PLAN:

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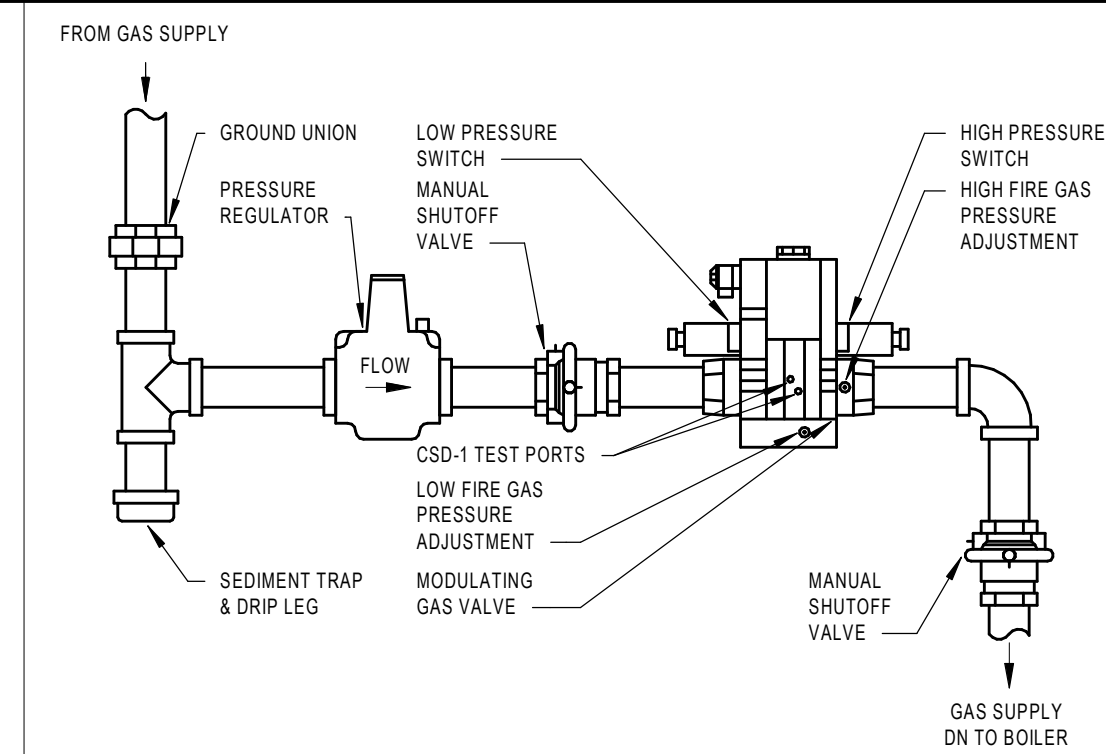
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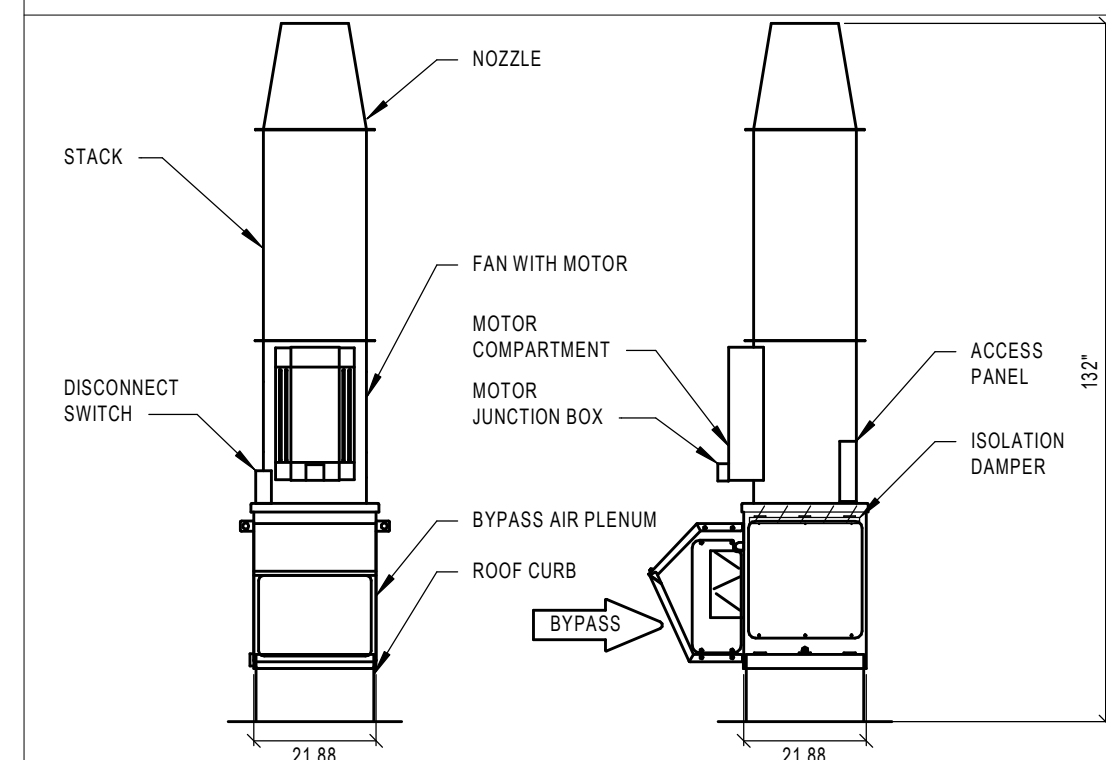
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REV	DATE	DESCRIPTION

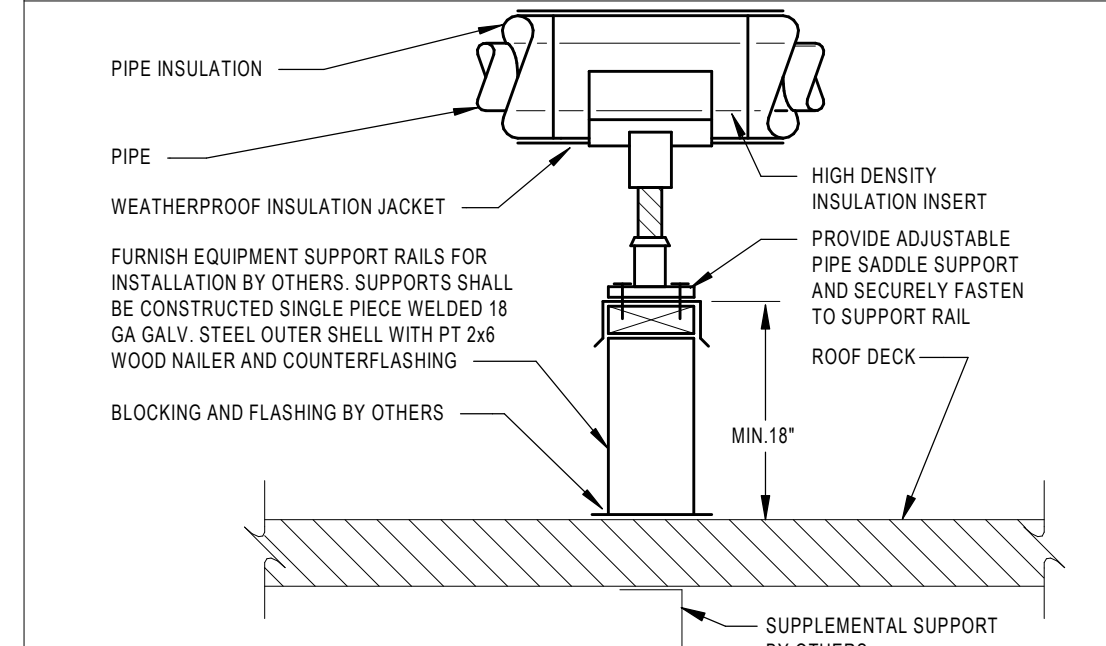
DRAWN BY JVJ/DK	PROJECT NUMBER 2023-105
CHECKED BY JLM	DATE 12/16/2024
MECHANICAL DETAILS	
BUILDING NUMBER HS	SHEET NUMBER M500 BID



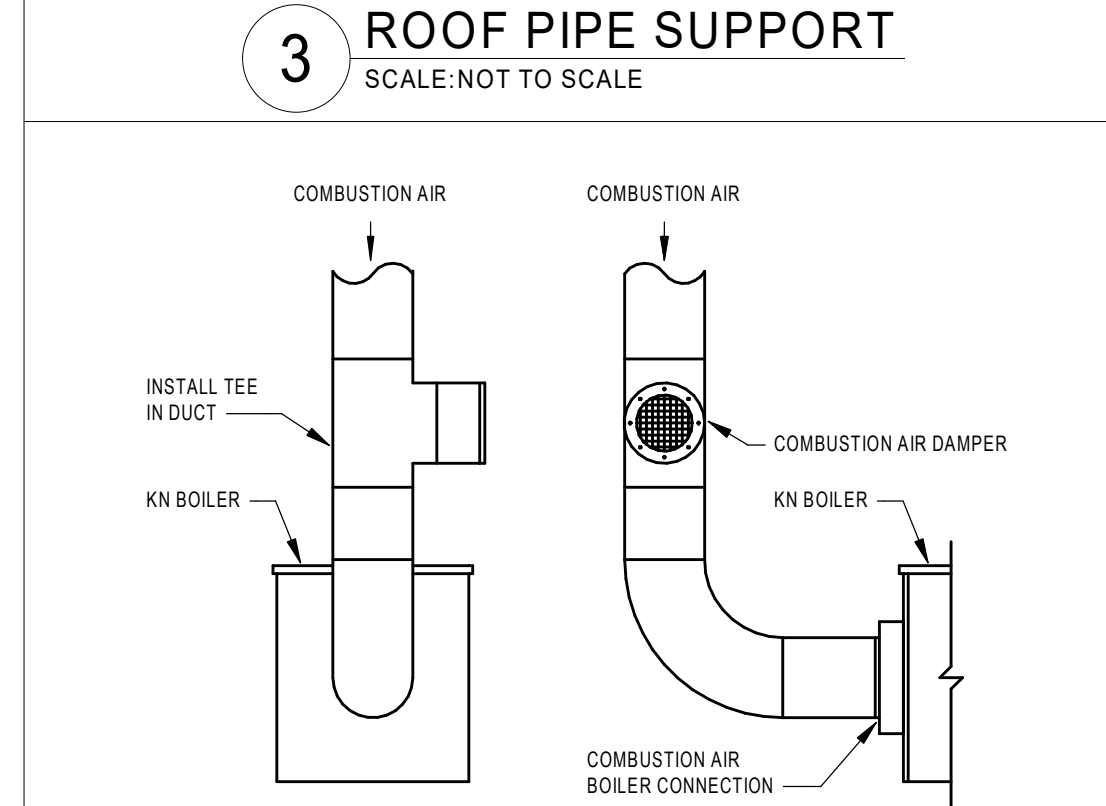
1 GAS SUPPLY PIPING
SCALE: NOT TO SCALE



2 HIGH PLUME LAB EXHAUST FAN
SCALE: NOT TO SCALE



3 ROOF PIPE SUPPORT
SCALE: NOT TO SCALE



4 COMBUSTION AIR DAMPER
SCALE: NOT TO SCALE

KEY PLAN:

SED NO. 22-04-01-04-0-003-011

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REV	DATE	DESCRIPTION

DRAWN BY JVG/DK	PROJECT NUMBER 2023-105
CHECKED BY JLM	DATE 12/16/2024

MECHANICAL DETAILS

BUILDING NUMBER
HS

SHEET NUMBER
M501
BID

12/16/2024 9:20:44 AM

ROOFTOP UNIT W/ ERW SCHEDULE - HEATING AND COOLING (RTU)

ID	LOCATION	MANUFACTURER	MODEL NO.	ARRANGEMENT	SUPPLY AIR				OUTSIDE AIR				FAN				SECONDARY FAN				SUMMER DESIGN ENERGY RECOVERY												COOLING COIL												WINTER DESIGN ENERGY RECOVERY												HEATING COIL								HEATING PLANT		MCA	MOCP	VOLT	PH	NOTES
					FLOW	OA%	DESIGN	ESP	TP	QTY	POWER	DESIGN	ESP	QTY	POWER	EAT(0b)	EAT(wb)	LAT(0b)	LAT(wb)	EAT(0b)	EAT(wb)	LAT(0b)	LAT(wb)	TOTAL	SENSIBLE	EAT(0b)	EAT(wb)	LAT(0b)	LAT(wb)	PD	EAT(0b)	EAT(wb)	LAT(0b)	LAT(wb)	PD	EAT(0b)	EAT(wb)	LAT(0b)	LAT(wb)	PD	EAT(0b)	EAT(wb)	LAT(0b)	LAT(wb)	PD	TYPE	%	UNIT WEIGHT																							
RTU-3	ROOF	DAIKIN	DPSH10B	DOWNFLOW	3600 CFM	2000 CFM	55.6	3600 CFM	1.00 in-wg	2.80 in-wg	1	4.60 hp	3600 CFM	1.00 in-wg	1	2.40 hp	96.0 F	75.0 F	81.2 F	67.9 F	75.0 F	62.0 F	78.4 F	65.4 F	126801 Btu/h	99149 Btu/h	78.4 F	65.4 F	52.0 F	53.2 F	0.40 in-wg	-15.0 F	-16.0 F	47.1 F	36.4 F	70.0 F	50.0 F	57.3 F	42.8 F	191711 Btu/h	23.0 F	73.1 F	2	8	10.3 GPM	180 F	140.0 F	2.40 in-H2O	PG	40	2886 lb	78.0 A	110.0 A	208 V	3	1,2,3,4,5,6,7,8,9,10,11,12,13,14															
RTU-4	ROOF	DAIKIN	DPSH10B	DOWNFLOW	3500 CFM	1900 CFM	54.3	3500 CFM	1.00 in-wg	2.80 in-wg	1	4.60 hp	3500 CFM	1.00 in-wg	1	2.40 hp	96.0 F	75.0 F	80.9 F	67.7 F	75.0 F	62.0 F	78.2 F	65.2 F	125626 Btu/h	97306 Btu/h	78.2 F	65.2 F	51.6 F	52.7 F	0.38 in-wg	-15.0 F	-16.0 F	47.9 F	36.9 F	70.0 F	50.0 F	58.0 F	43.3 F	191874 Btu/h	24.0 F	74.1 F	2	8	10.3 GPM	180 F	140.0 F	2.30 in-H2O	PG	40	2886 lb	78.0 A	110.0 A	208 V	3	1,2,3,4,5,6,7,8,9,10,11,12,13,14															
RTU-5	ROOF	DAIKIN	DPSH07B	DOWNFLOW	3300 CFM	1600 CFM	48.5	3300 CFM	1.00 in-wg	2.70 in-wg	1	4.30 hp	3300 CFM	1.00 in-wg	1	2.40 hp	96.0 F	75.0 F	80.2 F	67.1 F	75.0 F	62.0 F	77.5 F	64.6 F	98300 Btu/h	78330 Btu/h	77.5 F	64.6 F	55.4 F	54.3 F	0.34 in-wg	-15.0 F	-16.0 F	50.4 F	38.6 F	70.0 F	50.0 F	60.5 F	44.8 F	153609 Btu/h	29.0 F	71.6 F	2	8	8.3 GPM	180 F	140.0 F	1.50 in-H2O	PG	40	2886 lb	78.4 A	110.0 A	208 V	3	1,2,3,4,5,6,7,8,9,10,11,12,13,14															

NOTES:
 1 INSTALL AS PER UNIT MANUFACTURERS RECOMMENDATIONS
 2 PROVIDE UNIT WITH HEAT RECOVERY WHEEL WITH BY-PASS DAMPERS
 3 PROVIDE UNIT WITH DOUBLE WALL CONSTRUCTION WITH A MIX OF R13 INSULATION
 4 PROVIDE UNIT WITH 2" MERV 8 AND 4" MERV 14 FILTERS
 5 PROVIDE UNIT WITH DIRECT DRIVE MOTORS WITH VARIABLE DRIVES
 6 PROVIDE UNIT WITH RECIRCULATION DAMPER
 7 PROVIDE 18" HIGH INSULATED ROOF CURB
 8 PROVIDE UNIT WITH INTEGRAL FUSED DISCONNECT AND CONVENIENCE RECEPTACLES ACCESSIBLE FROM OUTSIDE UNIT ENCLOSURE
 9 PROVIDE OA AND EA WEATHER HOOD
 10 REFER TO CONTROL SCHEMATIC DRAWINGS FOR ADDITIONAL INFORMATION
 11 ALL HYDRONIC PIPING (HSS & HGR) IS RUN UP INTO UNIT FROM WITHIN THE ROOF CURB
 12 ALL ELECTRICAL CIRCUITRY IS TO RUN UP INTO UNIT FROM WITHIN ROOF CURB
 13 UNIT TO BE PROVIDED WITH FACTORY PACKAGED CONTROLS WITH BACNET INTEGRATION INTO THE BMS
 14 OUTDOOR AIR QUANTITY HAS BEEN CALCULATED BASED ON THE CORRECTED-Y METHOD AND IS IN COMPLIANCE WITH THE NYS MECHANICAL VENTILATION CODE MULTIPLE ZONE RECIRCULATING SYSTEMS REQUIREMENTS

ROOF TOP UNIT SCHEDULE - HEATING AND COOLING (RTU)

ID	LOCATION	MANUFACTURER	MODEL NO.	ARRANGEMENT	SUPPLY AIR				OUTSIDE AIR				FAN				SECONDARY FAN				SUMMER DESIGN ENERGY RECOVERY												COOLING COIL												WINTER DESIGN ENERGY RECOVERY												HEATING COIL								HEATING PLANT		MCA	MOCP	VOLT	PH	NOTES
					FLOW	OA%	DESIGN	ESP	TP	QTY	POWER	DESIGN	ESP	QTY	POWER	EAT(0b)	EAT(wb)	LAT(0b)	LAT(wb)	EAT(0b)	EAT(wb)	LAT(0b)	LAT(wb)	TOTAL	SENSIBLE	EAT(0b)	EAT(wb)	LAT(0b)	LAT(wb)	PD	EAT(0b)	EAT(wb)	LAT(0b)	LAT(wb)	PD	EAT(0b)	EAT(wb)	LAT(0b)	LAT(wb)	PD	TYPE	%	UNIT WEIGHT																												
RTU-1	ROOF	DAIKIN	DPSH04B	DOWNFLOW	1350 CFM	450 CFM	33.3	1350 CFM	1.00 in-wg	1.60 in-wg	1	1.70 hp	1350 CFM	1.00 in-wg	1	1.70 hp	96.0 F	75.0 F	81.2 F	67.9 F	75.0 F	62.0 F	78.4 F	65.4 F	48333 Btu/h	34272 Btu/h	78.4 F	65.4 F	55.0 F	55.0 F	0.23 in-wg	-15.0 F	-16.0 F	47.1 F	36.4 F	70.0 F	50.0 F	57.3 F	42.8 F	191711 Btu/h	23.0 F	73.1 F	2	8	4.2 GPM	180 F	140.0 F	1.10 in-H2O	PG	40	1421 lb	40.2 A	60.0 A	208 V	3	1,2,3,4,5,6,7,8,9,10,11,12															
RTU-2	ROOF	DAIKIN	DPSH07B	DOWNFLOW	2600 CFM	1050 CFM	40.4	2600 CFM	1.00 in-wg	1.50 in-wg	1	2.30 hp	2600 CFM	1.00 in-wg	1	1.50 hp	96.0 F	75.0 F	81.2 F	67.9 F	75.0 F	62.0 F	78.4 F	65.4 F	96381 Btu/h	63671 Btu/h	78.4 F	65.4 F	54.5 F	54.5 F	0.23 in-wg	-15.0 F	-16.0 F	47.1 F	36.4 F	70.0 F	50.0 F	57.3 F	42.8 F	191711 Btu/h	23.0 F	73.1 F	2	8	9.4 GPM	180 F	140.0 F	3.00 in-H2O	PG	40	2676 lb	74.4 A	110.0 A	208 V	3	1,2,3,4,5,6,7,8,9,10,11,12															
RTU-6	ROOF	DAIKIN	DPSH10B	DOWNFLOW	3200 CFM	1300 CFM	40.6	3200 CFM	1.00 in-wg	1.70 in-wg	1	2.30 hp	3200 CFM	1.00 in-wg	1	1.70 hp	96.0 F	75.0 F	81.2 F	67.9 F	75.0 F	62.0 F	78.2 F	65.2 F	126298 Btu/h	91528 Btu/h	78.2 F	65.2 F	53.6 F	53.6 F	0.33 in-wg	-15.0 F	-16.0 F	47.9 F	36.9 F	70.0 F	50.0 F	58.0 F	43.3 F	191874 Btu/h	24.0 F	74.1 F	2	8	7.4 GPM	180 F	140.0 F	1.20 in-H2O	PG	40	2676 lb	75.0 A	110.0 A	208 V	3	1,2,3,4,5,6,7,8,9,10,11															
RTU-7	ROOF	DAIKIN	DPSH12B	HORIZONTAL	4200 CFM	1450 CFM	34.5	4200 CFM	1.00 in-wg	2.50 in-wg	1	4.80 hp	4200 CFM	1.00 in-wg	1	2.40 hp	96.0 F	75.0 F	81.2 F	67.9 F	75.0 F	62.0 F	78.2 F	65.2 F	150117 Btu/h	108391 Btu/h	78.2 F	65.2 F	55.0 F	55.0 F	0.32 in-wg	-15.0 F	-16.0 F	47.9 F	36.9 F	70.0 F	50.0 F	58.0 F	43.3 F	191874 Btu/h	24.0 F	74.1 F	2	8	11.9 GPM	180 F	140.0 F	4.60 in-H2O	PG	40	2676 lb	91.5 A	125.0 A	208 V	3	1,2,3,4,5,6,7,8,9,10,11															

NOTES:
 1 INSTALL AS PER UNIT MANUFACTURERS RECOMMENDATIONS
 2 PROVIDE UNIT WITH DOUBLE WALL CONSTRUCTION WITH A MIX OF R13 INSULATION
 3 PROVIDE UNIT WITH 2" MERV 8 AND 4" MERV 14 FILTERS
 4 PROVIDE UNIT WITH DIRECT DRIVE MOTORS WITH VARIABLE DRIVES
 5 PROVIDE 18" HIGH INSULATED ROOF CURB
 6 PROVIDE UNIT WITH INTEGRAL FUSED DISCONNECT AND CONVENIENCE RECEPTACLES ACCESSIBLE FROM OUTSIDE UNIT ENCLOSURE
 7 PROVIDE OA AND EA WEATHER HOOD
 8 REFER TO CONTROL SCHEMATIC DRAWINGS FOR ADDITIONAL INFORMATION
 9 ALL HYDRONIC PIPING (HSS & HGR) IS RUN UP INTO UNIT FROM WITHIN THE ROOF CURB
 10 ALL ELECTRICAL CIRCUITRY IS TO RUN UP INTO UNIT FROM WITHIN ROOF CURB
 11 UNIT TO BE PROVIDED WITH FACTORY PACKAGED CONTROLS WITH BACNET INTEGRATION INTO THE BMS
 12 OUTDOOR AIR QUANTITY HAS BEEN CALCULATED BASED ON THE CORRECTED-Y METHOD AND IS IN COMPLIANCE WITH THE NYS MECHANICAL VENTILATION CODE MULTIPLE ZONE RECIRCULATING SYSTEMS REQUIREMENTS

FAN SCHEDULE (PRE) (EF)

ID	LOCATION	SERVES	MANUFACTURER	MODEL NO.	TYPE	ARRANGEMENT	AIRFLOW		VELOCITY		PRESS		MOTOR		SOUND PRESS		UNIT WEIGHT	FLA	MCA	MOCP	VOLT	PH	NOTES
							MAX	MIN	OUTLET	ESP	RPM	DRIVE TYPE	QTY	POWER	ECM	LEVEL (dBA)							
EF-300	ROOF	PHYSICS 300 FUME HOOD	GREENHECK	VEKTOR-H-12	FUME EXHAUST FAN	DOWNFLOW	972 CFM	972 CFM	3640 FPM	0.500 in-wg	2195	DIRECT	1	0.500 hp	No	67	371 lb	2.4 A	3.0 A	15.0 A	208 V	3	1,2,3,6,8
EF-301	ROOF	LIVING ENVIRONMENT 301 FUME HOOD	GREENHECK	VEKTOR-H-12	FUME EXHAUST FAN	DOWNFLOW	972 CFM	972 CFM	3640 FPM	0.500 in-wg	2195	DIRECT	1	0.500 hp	No	67	371 lb	2.4 A	3.0 A	15.0 A	208 V	3	1,2,3,6,8
EF-302	ROOF	CHEMISTRY 302 FUME HOOD	GREENHECK	VEKTOR-H-12	FUME EXHAUST FAN	DOWNFLOW	972 CFM	972 CFM	3640 FPM	0.500 in-wg	2195	DIRECT	1	0.500 hp	No	67	371 lb	2.4 A	3.0 A	15.0 A	208 V	3	1,2,3,6,8
EF-303	ROOF	BIOLOGY 303 FUME HOOD	GREENHECK	VEKTOR-H-12	FUME EXHAUST FAN	DOWNFLOW	972 CFM	972 CFM	3640 FPM	0.500 in-wg	2195	DIRECT	1	0.500 hp	No	67	371 lb	2.4 A	3.0 A	15.0 A	208 V	3	1,2,3,6,8
EF-305	ROOF	EARTH SCIENCE 305 FUME HOOD	GREENHECK	VEKTOR-H-12	FUME EXHAUST FAN	DOWNFLOW	972 CFM	972 CFM	3640 FPM	0.500 in-wg	2195	DIRECT	1	0.500 hp	No	67	371 lb	2.4 A	3.0 A	15.0 A	208 V	3	1,2,3,6,8
EF-307	ROOF	EARTH SCIENCE 307 FUME HOOD	GREENHECK	VEKTOR-H-12	FUME EXHAUST FAN	DOWNFLOW	972 CFM	972 CFM	3640 FPM	0.500 in-wg	2195	DIRECT	1	0.500 hp	No	67	371 lb	2.4 A	3.0 A	15.0 A	208 V	3	1,2,3,6,8
PRE-1	ROOF	STORAGE 100B	GREENHECK	G-060-VG	CENTRIFUGAL ROOF DOWNBLAST	DOWNFLOW	75 CFM	75 CFM	395 FPM	0.250 in-wg	1388	DIRECT	1	0.067 hp	Yes	41	19 lb	1.3 A	1.6 A	15.0 A	115 V	1	1,2,3,4,5,6
PRE-2	ROOF	TOILET ROOMS	GREENHECK	G-095	CENTRIFUGAL ROOF DOWNBLAST	DOWNFLOW	550 CFM	550 CFM	474 FPM	0.500 in-wg	1492	DIRECT	1	0.167 hp	Yes	56	31 lb	2.8 A	3.5 A	15.0 A	115 V	1	1,2,3,4,5,6,7
PRE-3	ROOF	LOCKER ROOM 909	GREENHECK	G-120-VG	CENTRIFUGAL ROOF DOWNBLAST	DOWNFLOW	900 CFM	900 CFM	860 FPM	0.250 in-wg	865	DIRECT	1	0.250 hp	Yes	49	44 lb	3.8 A	4.8 A	15.0 A	115 V	1	1,2,3,4,5,6,7
PRE-4	ROOF	LOCKER ROOM 906	GREENHECK	G-120-VG	CENTRIFUGAL ROOF DOWNBLAST	DOWNFLOW	900 CFM	900 CFM	868 FPM	0.250 in-wg	928	DIRECT	1	0.250 hp	Yes	51	44 lb	3.8 A	4.8 A	15.0 A	115 V	1	1,2,3,4,5,6,7

NOTES:
 1 INSTALL AS PER UNIT MANUFACTURERS RECOMMENDATIONS
 2 PROVIDE WITH AN 18" H PRE-MANUFACTURED INSULATED ROOF CURB
 3 PROVIDE WITH FACTORY MOUNTED DISCONNECT SWITCH
 4 PROVIDE WITH ALUMINUM BRD SCREEN
 5 PROVIDE WITH ECM MOTOR WITH 0-10V INPUT FOR CONTROL AND SPEED SWITCH FOR BALANCING
 6 PROVIDE A MOTORIZED LOW LEAK DAMPER WITH FAN, DAMPER PROVIDED AND COORDINATED WITH TC SUBCONTRACTOR
 7 MOUNT POWERED ROOF EXHAUST ON EXISTING ROOF CURB. PROVIDE ROOF CURB ADAPTER IF REQUIRED
 8 PROVIDE FAN WITH MANUFACTURER VFD PACKAGE. VFD SHALL BE SHIPPED LOOSE AND TURNED OVER TO EC FOR INSTALLATION. INSTALL VFD IN INTERIOR OF SPACE AS CLOSE AS POSSIBLE TO FAN

AIR CONDITIONING UNIT SCHEDULE (ACU)

ID	LOCATION	SERVES	MANUFACTURER	MODEL NO.	TYPE	AIRFLOW	COOLING COIL						UNIT WEIGHT	MCA	MOCP	VOLT	PH	NOTES
							NOMINAL CAP	CAP		AIRSIDE		WATERSIDE						
ACU-103	STORAGE	103	ACCU-1	DAIKIN	FTKF18AXVJU	WALL MOUNTED	605 CFM	1.50 ton	18100.0 Btu/h	14120.0 Btu/h	80.0 F	67.0 F	30.5 lb	-	-	208 V	1	1,2,3,4
ACU-121A	DATA	121A	ACCU-4	DAIKIN	FTKF18AXVJU	WALL MOUNTED	605 CFM	1.50 ton	18100.0 Btu/h	14120.0 Btu/h	80.0 F	67.0 F	30.5 lb	-	-	208 V	1	1,2,3,4
ACU-407A	DATA	407A	ACCU-2	DAIKIN	FTKF18AXVJU	WALL MOUNTED	605 CFM	1.50 ton	18100.0 Btu/h	14120.0 Btu/h	80.0 F	67.0 F	30.5 lb	-	-	208 V	1	1,2,3,4
ACU-609A	DATA	609A	ACCU-3	DAIKIN	FTKF18AXVJU	WALL MOUNTED	605 CFM	1.50 ton	18100.0 Btu/h	14120.0 Btu/h	80.0 F	67.0 F	30.5 lb	-	-	208 V	1	1,2,3,4
ACU-906	DATA	906	ACCU-7	DAIKIN	FTKF18AXVJU	WALL MOUNTED	605 CFM	1.50 ton	18100.0 Btu/h	14120.0 Btu/h	80.0 F	67.0 F	30.5 lb	-	-	208 V	1	1,2,3,4

NOTES:
 1 INSTALL AS PER UNIT MANUFACTURERS RECOMMENDATIONS
 2 MC IS RESPONSIBLE FOR FIELD REFRIGERANT PIPING AND SYSTEM REFRIGERANT CHARGING
 3 UNIT MANUFACTURER TO CONFIRM REFRIGERANT PIPE SIZES
 4 INDOOR UNIT TO BE POWERED FROM OUTDOOR UNIT

MAKEUP AIR UNIT SCHEDULE (MAU)

ID	LOCATION	MANUFACTURER	MODEL NO.	ARRANGEMENT	AIRFLOW				FAN		HEATING COIL				HEATING PLANT		UNIT WEIGHT	FLA	MCA	MOCP	VOLT	PH	NOTES					
					SUPPLY	OA%	PRESS	DRIVE	MOTOR	CAP		AIRSIDE		WATERSIDE														
MAU-1	STORAGE	609	DAIKIN	BCHD0081	HORIZONTAL	500 CFM	100	0.50 in-wg	DIRECT	0.33 hp	Yes	52246 Btu/h	-15.0 F	80.6 F	2	2.8 GPM	180 F	140.1 F	3.02 in-H2O	PG	40	215 lb	4.4 A	5.5 A	150 A	115 V	1	1,2,3

NOTES:
 1 INSTALL AS PER UNIT MANUFACTURERS RECOMMENDATIONS
 2 HANG UNIT FROM STRUCTURE WITH VIBRATION ISOLATORS
 3 UNIT TO BE PROVIDED WITH FACTORY PACKAGED CONTROLS WITH BACNET INTEGRATION INTO THE BMS

VARIABLE REFRIGERANT FLOW AIR-SOURCE CONDENSING UNIT SCHEDULE - COOLING ONLY (ACCU)

ID	LOCATION	MANUFACTURER	MODEL NO.	TYPE	COOLING CAP	COMPRESSOR REFRIGERANT TYPE	SUMMER AMBIENT DBT	EER	UNIT WEIGHT
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GLYCOL MAKE-UP UNIT SCHEDULE (GMU)																		
ID	LOCATION		MANUFACTURER	MODEL NO.	PUMP		MOTOR				UNIT VOL	UNIT WEIGHT	FLA	MCA	MOCP	VOLT	PH	NOTES
	NAME	NO.			FLOW	DISCHARGE PRESS	QTY	POWER	RPM	ECM								
GMU-1	BOILER ROOM	708	J.L. WINGERT	GL100-E1-ET	1.69 GPM	60.0 psi	1	0.33 hp	1725	No	100.0 gpi	205 lb	6.5 A	8.1 A	20.0 A	115 V	1	1.2

NOTES:
 1 INSTALL AS PER UNIT MANUFACTURERS RECOMMENDATIONS
 2 INSTALL GLYCOL MAKE-UP UNIT ON A 4" HIGH REINFORCED CONCRETE EQUIPMENT PAD, MC RESPONSIBLE FOR FURNISHING AND INSTALLING EQUIPMENT PAD

GAS-FIRED BOILER SCHEDULE (B)																					
ID	LOCATION		MANUFACTURER	MODEL NO.	TYPE	GAS BURNER				WATERSIDE				EFF	UNIT WEIGHT	FLA	MCA	MOCP	VOLT	PH	NOTES
	NAME	NO.				INPUT	OUTPUT	TYPE	MIN	MAX	MIN	MAX	MIN								
B-2	BOILER ROOM	708	MESTECK	KN-20	CONDENSING CAST IRON	199000 Btu/h	179000 Btu/h	NG	3.0 in-wg	14.0 in-wg	36.0 GPM	180.0 GPM	21.9 gal	90%	2714 lb	13.1 A	16.4 A	25.0 A	208 V	1	1.2,3,4,5,6
B-2A	BOILER ROOM	708	MESTECK	KN-20	CONDENSING CAST IRON	199000 Btu/h	179000 Btu/h	NG	3.0 in-wg	14.0 in-wg	36.0 GPM	180.0 GPM	21.9 gal	90%	2714 lb	13.1 A	16.4 A	25.0 A	208 V	1	1.2,3,4,5,6

NOTES:
 1 INSTALL AS PER UNIT MANUFACTURERS RECOMMENDATIONS
 2 PROVIDE BOILER CONTROL PANEL FOR CONTROL OF ALL BOILERS AND INCLUDE A BACNET INTERFACE FOR BUILDING AUTOMATION SYSTEM
 3 PROVIDE WITH BASE RAILS FOR INSTALLATION ON EXISTING CONCRETE EQUIPMENT PAD
 4 COMBUSTION AIR TO BE FULLY INSULATED AND DUCTED INDIVIDUALLY UP THROUGH ROOF TO A GOOSENECK HOOD
 5 BOILER VENT SHALL BE AL294C STAINLESS STEEL FLUE AND DUCTED INDIVIDUALLY UP THROUGH ROOF, TERMINATE 6 FEET ABOVE ROOF WITH A RAIN CAP
 6 PIPE BOILER CONDENSATE DRAIN TO A COMMON NEUTRALIZATION TANK, PIPE OUTLET OF TANK TO NEAREST FLOOR DRAIN

COOLING COIL SCHEDULE (CC)																			
ID	LOCATION		MANUFACTURER	MODEL NO.	CAP				AIRSIDE				WATERSIDE				REFRIGERANT - R410A	UNIT WEIGHT	NOTES
	NAME	NO.			TOTAL	SENSIBLE	DESIGN FLOW	EAT(0b)	EAT(wb)	LAT(0b)	LAT(wb)	PD	ROWS	SATURATED SUCTION TEMP	LIQUID TEMP ENTERING				
CC-1	GYMNASIUM MEZZANINE	902	MODINE	4EK09069-67-5x35	365200 Btu/h	24800 Btu/h	900 CFM	80.0 °F	67.0 °F	54.7 °F	53.8 °F	0.66 in-wg	4	42.8 °F	115 °F	279 lb	1.2,3,4,5		
CC-2	GYMNASIUM MEZZANINE	902	MODINE	4EK09069-67-5x35	365200 Btu/h	24800 Btu/h	900 CFM	80.0 °F	67.0 °F	54.7 °F	53.8 °F	0.66 in-wg	4	42.8 °F	115 °F	279 lb	1.2,3,4,5		

NOTES:
 1 INSTALL AS PER UNIT MANUFACTURERS RECOMMENDATIONS
 2 PROVIDE WITH 2" DOUBLE WALL CONSTRUCTION, HEAVY GAUGE GALVANIZED STEEL WITH MILL FINISH
 3 PROVIDE WITH STAINLESS STEEL DRAIN PAN
 4 PROVIDE WITH 4" BASE RAIL
 5 FULLY INSULATED WITH FIBERGLASS INSULATION

DUCT MOUNTED HEATING COIL SCHEDULE (DHC)																	
ID	LOCATION		MANUFACTURER	MODEL NO.	CAP	HEATING COIL				HEATING PLANT				UNIT WEIGHT	NOTES		
	NAME	NO.				DESIGN FLOW	EAT(0b)	EAT(wb)	LAT(0b)	LAT(wb)	PD	ROWS	GLYCOL			TYPE	%
DHC-300	PHYSICS	300	GREENHECK	HW68S02A10-12x2	69200 Btu/h	1500 CFM	55.0 °F	97.6 °F	2	3.7 GPM	180 °F	140 °F	8.8 inH2O	PG	40	27 lb	1.2,3
DHC-300A	PREP	300A	GREENHECK	HW68S03A11-12x12	36100 Btu/h	500 CFM	55.0 °F	121.6 °F	3	1.9 GPM	180 °F	140 °F	3.1 inH2O	PG	40	20 lb	1.2,3
DHC-301	LIVING ENVIRONMENT	301	GREENHECK	HW68S02A10-12x24	69200 Btu/h	1500 CFM	55.0 °F	97.6 °F	2	3.7 GPM	180 °F	140 °F	8.8 inH2O	PG	40	27 lb	1.2,3
DHC-301A	PREP	301A	GREENHECK	HW68S03A11-12x12	36100 Btu/h	500 CFM	55.0 °F	121.6 °F	3	1.9 GPM	180 °F	140 °F	3.1 inH2O	PG	40	20 lb	1.2,3
DHC-302	CHEMISTRY	302	GREENHECK	HW68S02A10-12x24	69200 Btu/h	1500 CFM	55.0 °F	97.6 °F	2	3.7 GPM	180 °F	140 °F	8.8 inH2O	PG	40	27 lb	1.2,3
DHC-303	BIOLOGY	303	GREENHECK	HW68S02A10-12x24	71800 Btu/h	1600 CFM	55.0 °F	96.4 °F	2	3.9 GPM	180 °F	140 °F	9.5 inH2O	PG	40	27 lb	1.2,3
DHC-305	EARTH SCIENCE	305	GREENHECK	HW68S02A10-12x22	63100 Btu/h	1400 CFM	55.0 °F	96.6 °F	2	3.4 GPM	180 °F	140 °F	7.1 inH2O	PG	40	25 lb	1.2,3
DHC-305A	PREP	305A	GREENHECK	HW68S03A11-12x12	36100 Btu/h	500 CFM	55.0 °F	121.6 °F	3	1.9 GPM	180 °F	140 °F	3.1 inH2O	PG	40	20 lb	1.2,3
DHC-307	EARTH SCIENCE	307	GREENHECK	HW68S02A10-12x22	63100 Btu/h	1400 CFM	55.0 °F	96.6 °F	2	3.4 GPM	180 °F	140 °F	7.1 inH2O	PG	40	25 lb	1.2,3
DHC-504	CULINARY	504	GREENHECK	HW68S02A10-12x24	69200 Btu/h	1500 CFM	55.0 °F	97.6 °F	2	3.7 GPM	180 °F	140 °F	8.8 inH2O	PG	40	27 lb	1.2,3
DHC-506	SEWING	506	GREENHECK	HW68S02A10-12x26	78000 Btu/h	1700 CFM	55.0 °F	97.4 °F	2	4.2 GPM	180 °F	140 °F	11.5 inH2O	PG	40	28 lb	1.2,3

NOTES:
 1 INSTALL AS PER UNIT MANUFACTURERS RECOMMENDATIONS
 2 REFER TO DUCT MOUNTED COIL DETAIL FOR MORE INFORMATION
 3 COIL, COIL SLEEVE AND ASSOCIATED DUCTWORK TO BE FULLY INSULATED

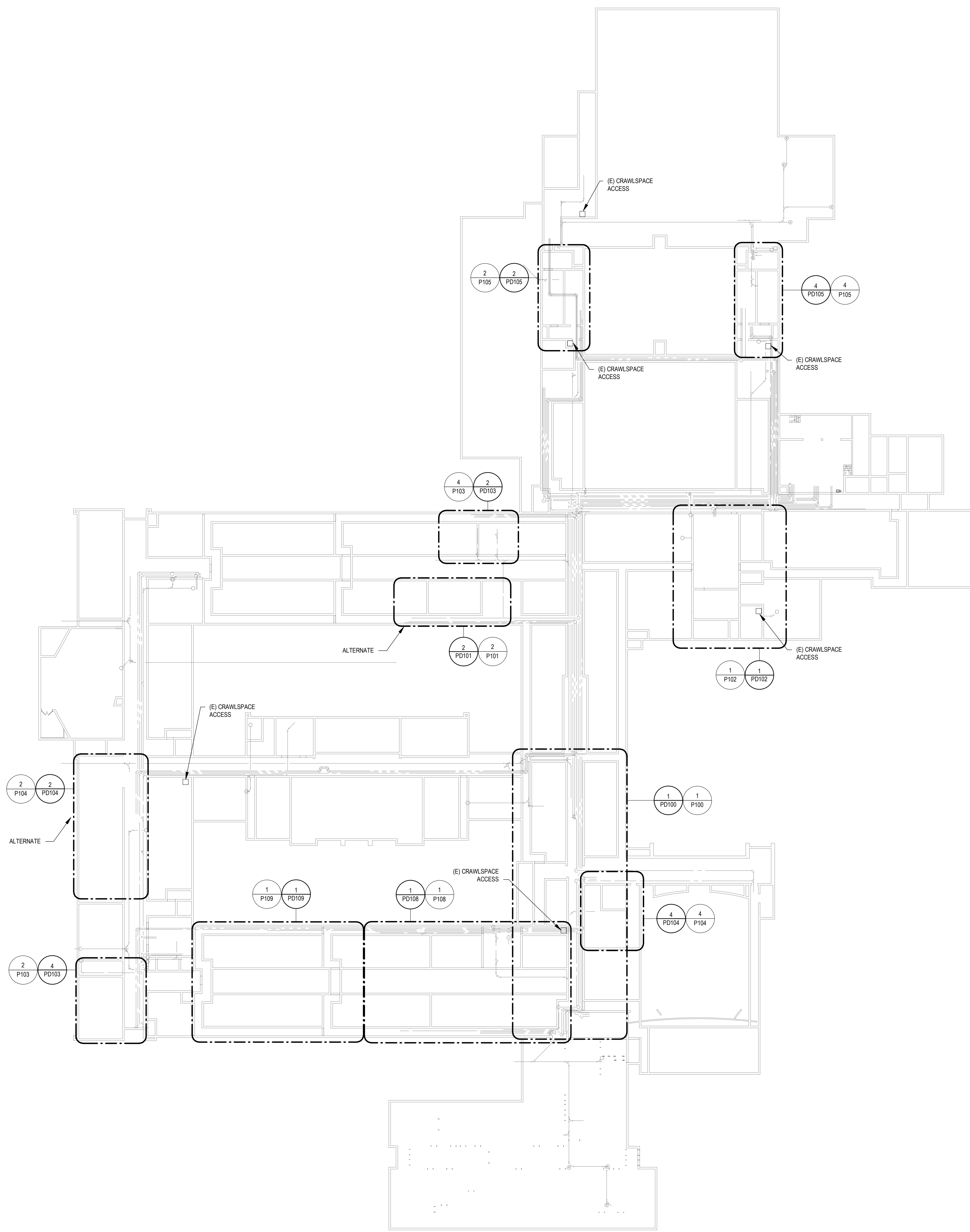
FIN TUBE RADIATION SCHEDULE (FTR)																
ID	MANUFACTURER	MODEL NO.	MATERIAL	TYPE	HEATING COIL				HEATING PLANT				ENCLOSURE HEIGHT	MOUNTING HEIGHT	NOTES	
					BTU/FT	ROWS	FIN SIZE	FPI	WATERSIDE	GLYCOL	TYPE	%				
FTR-A	STERLING	B (C34-435)	CULAL	BARE ELEMENT	786 Btu/h	1	3-5/8"x4-1/4"	50	180 °F	140 °F	3/4"	PG	40	30"	30"	1.2,3,4
FTR-B	STERLING	JVA-S14 (C34-35)	CULAL	SLOPED TOP	703 Btu/h	1	3-1/4"x3-1/4"	50	180 °F	140 °F	3/4"	PG	40	14"	18"	1.2,3,5,6
FTR-BES	STERLING	JVA-S14 (C34-35)	CULAL	SLOPED TOP	703 Btu/h	1	3-1/4"x3-1/4"	50	180 °F	140 °F	3/4"	PG	40	14"	18"	1.2,3,4,5

NOTES:
 1 INSTALL AS PER UNIT MANUFACTURERS RECOMMENDATIONS
 2 PROVIDE ALL WALL BRACKETS, END CAPS AND 12" WIDE FULL HEIGHT PANELS AS REQUIRED
 3 COORDINATE INSTALLATION OF FIN ELEMENT AND BRACKETS WITH CONTRACTOR RESPONSIBLE FOR CASEWORK PRIOR TO INSTALLATION
 4 ELEMENT TO BE INSTALLED BEHIND CASEWORK WITH A 30" H x 6" D SPACE
 5 COLOR OF ENCLOSURE TO BE DETERMINED BY ARCHITECT, MECHANICAL CONTRACTOR TO PROVIDE COLOR OPTIONS
 6 PROVIDE ACCESS DOOR IN FIN TUBE ENCLOSURE FOR VALVE ACCESSIBILITY

CIRCULATING PUMP SCHEDULE (HWP)																	
ID	LOCATION		MANUFACTURER	MODEL NO.	TYPE	PUMP				MOTOR				UNIT WEIGHT	VOLT	PH	NOTES
	NAME	NO.				FLOW	HEAD	SPEED (RPM)	EFF	DRIVE TYPE	POWER	RPM					
HWP-11	BOILER ROOM	708	BELL & GOSSETT	E-1510 2BD	BASE MOUNTED END SUCTION	200.0 GPM	50.0 FT	1644	72.5%	DIRECT	5.00 hp	1800	240 lb	208 V	3	1.2,3,4,5,6	
HWP-12	BOILER ROOM	708	BELL & GOSSETT	E-1510 2BD	BASE MOUNTED END SUCTION	200.0 GPM	50.0 FT	1644	72.5%	DIRECT	5.00 hp	1800	240 lb	208 V	3	1.2,3,4,5,6	
HWP-13	BOILER ROOM	708	BELL & GOSSETT	E-1510 2BD	BASE MOUNTED END SUCTION	238.0 GPM	75.0 FT	1736	74.3%	DIRECT	7.50 hp	1800	340 lb	208 V	3	1.2,3,4,5,6	
HWP-14	BOILER ROOM	708	BELL & GOSSETT	E-1510 2BD	BASE MOUNTED END SUCTION	238.0 GPM	75.0 FT	1736	74.3%	DIRECT	7.50 hp	1800	340 lb	208 V	3	1.2,3,4,5,6	
HWP-15	BOILER ROOM	708	BELL & GOSSETT	E-1510 2AD	BASE MOUNTED END SUCTION	136.0 GPM	32.0 FT	1750	68.8%	DIRECT	2.00 hp	1800	183 lb	208 V	3	1.2,3,4,5,6	
HWP-16	BOILER ROOM	708	BELL & GOSSETT	E-1510 2AD	BASE MOUNTED END SUCTION	136.0 GPM	32.0 FT	1750	68.8%	DIRECT	2.00 hp	1800	183 lb	208 V	3	1.2,3,4,5,6	
BP-2	BOILER ROOM	708	BELL & GOSSETT	E-90 3AAB	INLINE CENTRIFUGAL	90.0 GPM	15.0 FT	1647	66.6%	DIRECT	0.75 hp	1800	72 lb	115 V	1	1.2,6,7	
BP-2A	BOILER ROOM	708	BELL & GOSSETT	E-90 3AAB	INLINE CENTRIFUGAL	90.0 GPM	15.0 FT	1647	66.6%	DIRECT	0.75 hp	1800	72 lb	115 V	1	1.2,6,7	

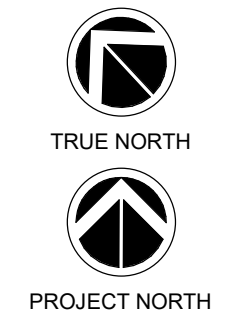
NOTES:
 1 INSTALL AS PER UNIT MANUFACTURERS RECOMMENDATIONS
 2 PROVIDE A VARIABLE SPEED DRIVE WITH PUMP
 3 MOUNT BASE MOUNTED PUMP ON EXISTING CONCRETE EQUIPMENT PAD AND INCLUDE A SPRING ISOLATED INERTIA PAD WITH EACH PUMP
 4 ALIGN PUMP MOTOR, MOTOR SHAFT, AND IMPELLER PRIOR TO GROUNDING BASE
 5 PROVIDE SUCTION DIFFUSER
 6 REFER TO PUMP INSTALLATION DETAIL FOR MORE INFORMATION
 7 HANG INLINE PUMP FROM EXISTING STRUCTURE

2023 62.1 ASHRAE VENTILATION SCHEDULE																	
Room: Number	Room: Name	62.1 ASHRAE Ventilation Table	Area	Occupant Density	CFM/Person	CFM/SQFT	# OF PEOPLE CALCULATED	Zone Air Distribution Effectiveness	TOTAL MIN OA	Actual Supply OA CFM	OA CODE MET	PLUMBING FIXTURES	EXHAUST RATE CFM/SQFT	Exhaust CFM per Fixture	MIN Exhaust Rate	Actual Exhaust CFM	EXHAUST CFM MET
100	VOCAL MUSIC	Music/Theatre/Dance	720.9 SF	35	10	0.06	26	0.8	280	400	Yes	0	0	0	0	0	Yes
100A	PRACTICE ROOM	Office Space	77.6 SF	5	5	0.06	1	0.8	13	25	Yes	0	0	0	0	0	Yes
103	STORAGE	Occupiable Storage Rooms for Dry Materials	92.0 SF	2	5	0.06	1	0.8	14	25	Yes	0	0	0	0	75	Yes
106	BAND ROOM	Music/Theatre/Dance	1355.1 SF	35	10	0.06	48	0.8	702	775	Yes	0	0	0	0	0	Yes
106A	STORAGE	Occupiable Storage Rooms for Dry Materials	147.9 SF	2	5	0.06	1	0.8	18	50	Yes	0	0	0	0	100	Yes
106B	STORAGE	Occupiable Storage Rooms for Dry Materials	242.3 SF	2	5	0.06	1	0.8	25	100	Yes	0	0	0	0	150	Yes
106C	STORAGE	Occupiable Storage Rooms for Dry Materials	170.4 SF	2	5	0.06	1	0.8	20	75	Yes	0	0	0	0	125	Yes
106D	PRACTICE ROOM	Office Space	56.6 SF	5	5	0.06	1	0.8	11	25	Yes	0	0	0	0	0	Yes
106E	PRACTICE ROOM	Office Space	60.3 SF	5	5	0.06	1	0.8	11	25	Yes	0	0	0	0	0	Yes
300	PHYSICS	Science Laboratories	1047.2 SF	25	10	0.18	27	0.8	574	900	Yes	0	1	0	1048	1,100	Yes
300A	PREP	Occupiable Storage Rooms for Liquids or Gels	353.6 SF	2	5	0.12	1	0.8	60	175	Yes	0	0	0	0	200	Yes
301	LIVING ENVIRONMENT	Science Laboratories	975.9 SF	25	10	0.18	25	0.8	533	825	Yes	0	1	0	976	1,000	Yes
301A	PREP	Occupiable Storage Rooms for Liquids or Gels	354.7 SF	2	5	0.12	1	0.8	60	175	Yes	0	0	0	0	200	Yes
302	CHEMISTRY	Science Laboratories	978.7 SF	25	10	0.18	25	0.8	533	825	Yes	0	1	0	979	1,000	Yes
303	BIOLOGY	Science Laboratories	1102.3 SF	25	10	0.18	28	0.8	599	1000	Yes	0	1	0	1103	1,200	Yes
304	CLASSROOM	Classrooms (age 9+)	809.6 SF	35	10	0.12	29	0.9	431	450	Yes	0	0	0	0	0	Yes
305	EARTH SCIENCE	Science Laboratories	846.8 SF	25	10	0.18	22	0.8	466	700	Yes	0	1	0	847	900	Yes
305A	PREP	Occupiable Storage Rooms for Liquids or Gels	369.2 SF	2	5	0.12	1	0.8	62	175	Yes	0	0	0	0	200	Yes
306	CLASSROOM	Classrooms (age 9+)	762.4 SF	35	10	0.12	27	0.9	402	450	Yes	0	0	0	0	0	Yes
307	EARTH SCIENCE	Science Laboratories	879.9 SF	25	10	0.18	22	0.8	473	725	Yes	0	1	0	880	900	Yes
309	CLASSROOM	Classrooms (age 9+)	585.7 SF	35	10	0.12	21	0.9	312	400	Yes	0	0	0	0	0	Yes
504	CULINARY	Classrooms (age 9+)	959.6 SF	35	10	0.12	34	0.8	569	600	Yes	0	0	0	0	0	Yes
506	SEWING	Classrooms (age 9+)	1136.5 SF	35	10	0.12	40	0.8	671	700	Yes	0	0	0	0	0	Yes
509	8TH GRADE SCIENCE	Science Laboratories	1084.0 SF	25	10	0.18	28	0.8	594	950	Yes	0	1	0	1084	1,100	Yes
600	CLASSROOM	Classrooms (age 9+)	812.1 SF	35</													



1 CRAWLSPACE PLUMBING REFERENCE PLAN
SCALE: 1/32" = 1'-0"

KEY PLAN:



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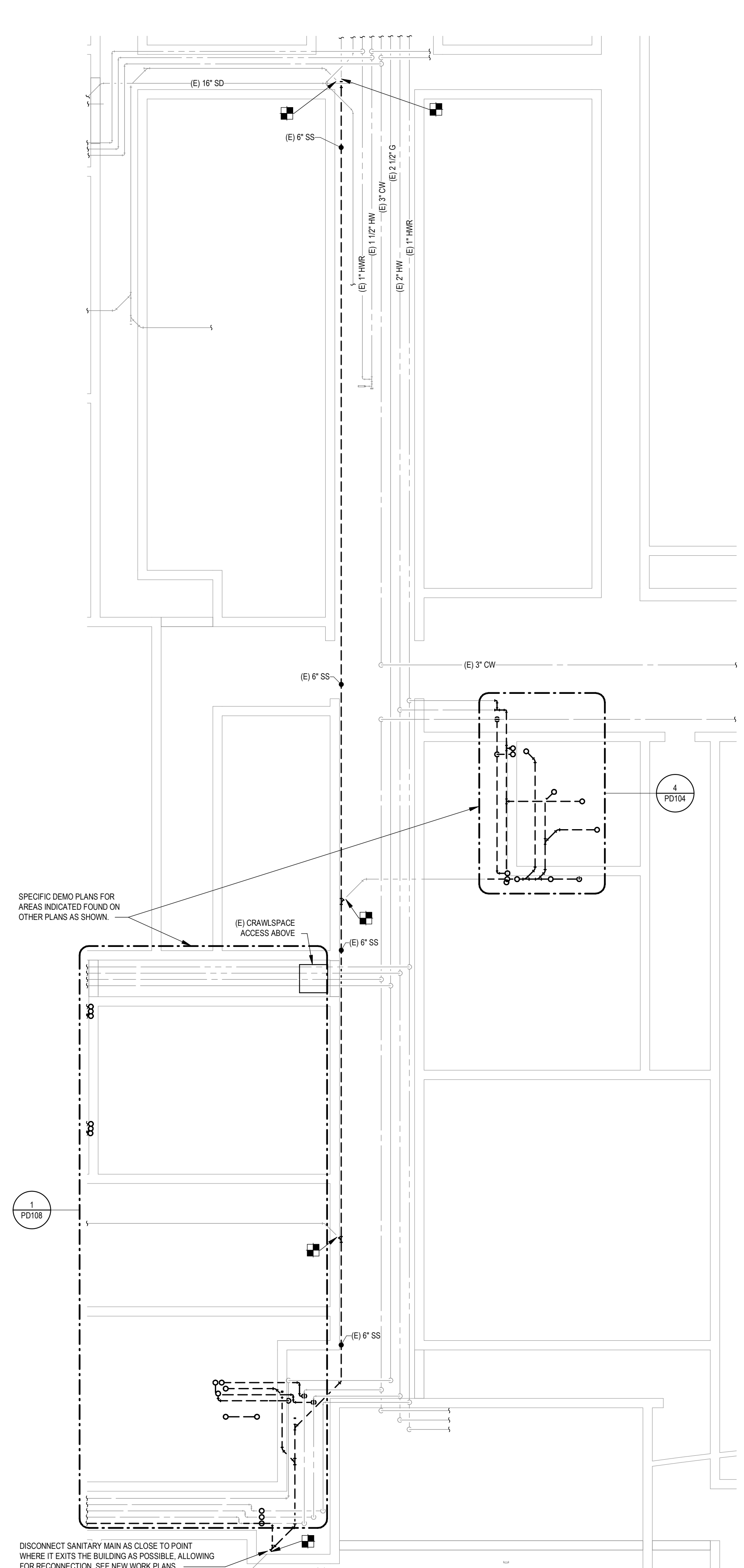
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DRAWN BY TLG	PROJECT NUMBER 2023-105
CHECKED BY JLM	DATE 12/16/2024

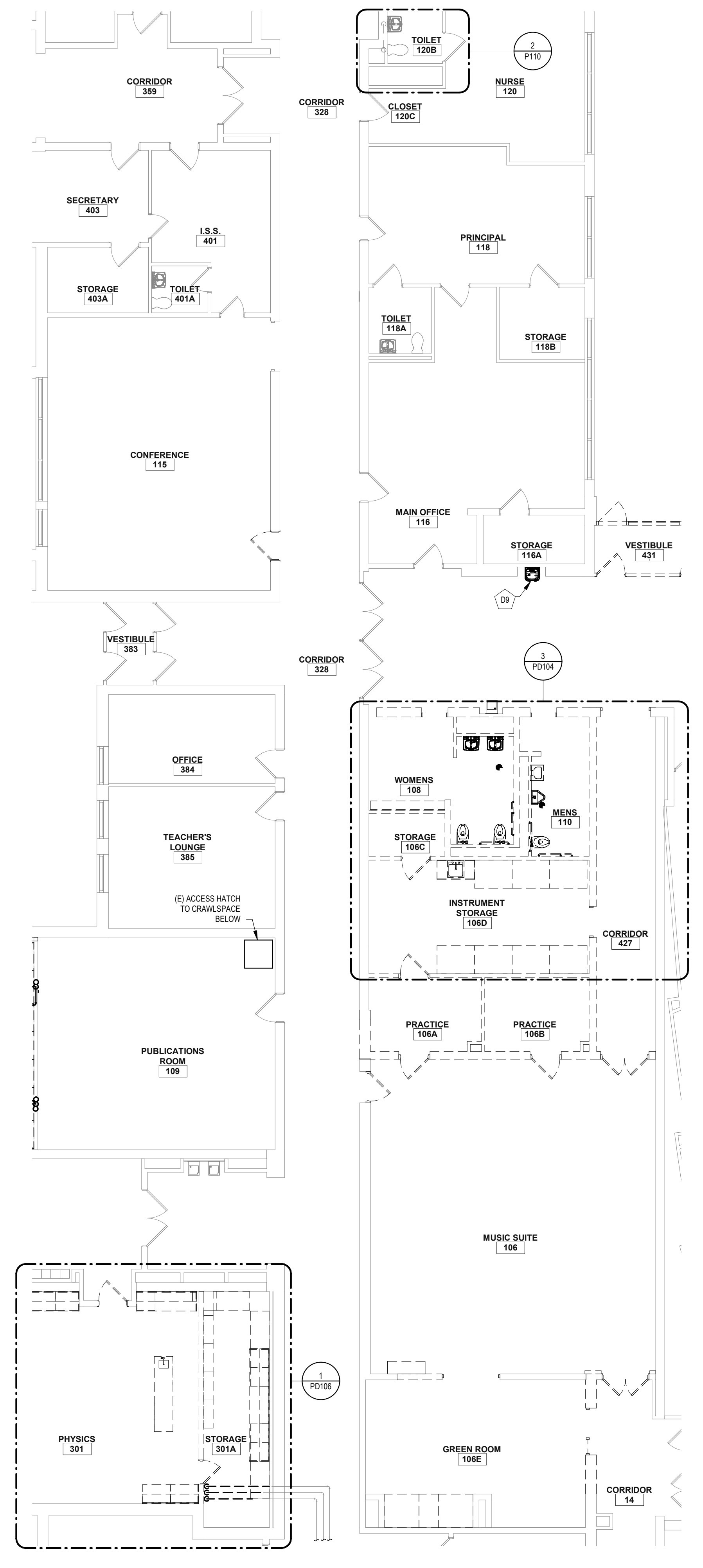
CRAWLSPACE PLUMBING REFERENCE AND ACCESS PLANS

BUILDING NUMBER HS	SHEET NUMBER PR101 BID
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12/16/2024 6:05:48 PM



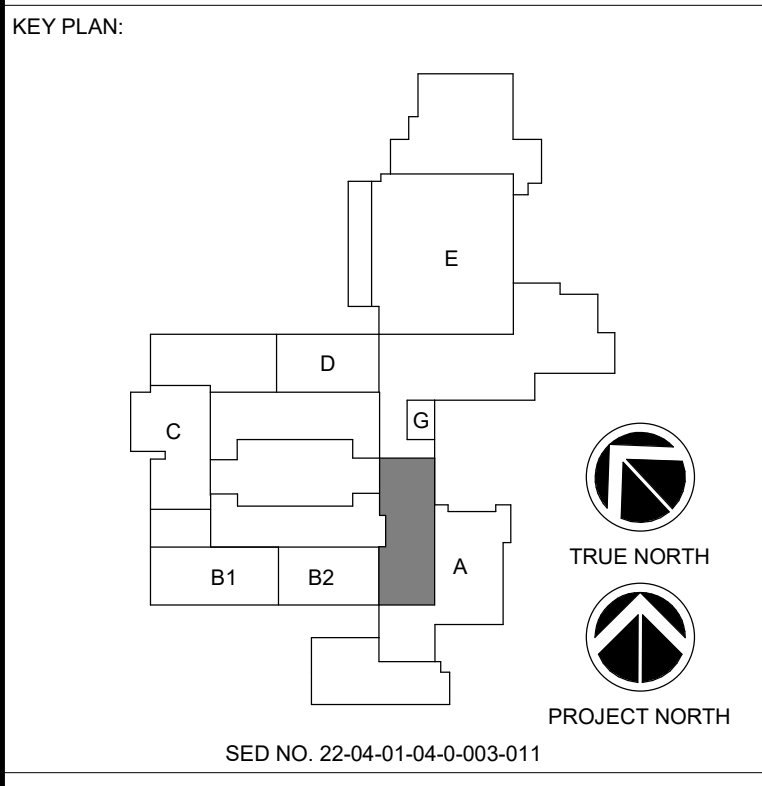
1 SANITARY MAIN CRAWLSPACE PLUMBING DEMOLITION PLAN
SCALE: 1/8" = 1'-0"



2 SANITARY MAIN REPLACEMENT - FIRST FLOOR ABOVE
SCALE: 1/8" = 1'-0"

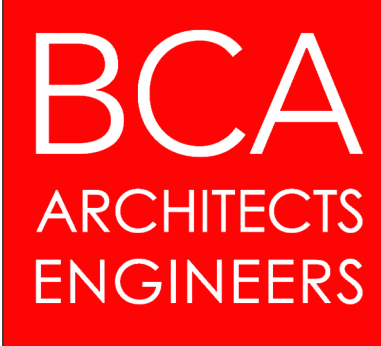
GENERAL NOTES:
1. SEE DRAWING PS900 FOR GENERAL NOTES, ABBREVIATIONS, SYMBOLS AND LEGENDS

DEMOLITION KEYNOTE LEGEND
D9 REMOVE EXISTING PLUMBING FIXTURE AND ALL ASSOCIATED ACCESSORIES, DISCONNECT



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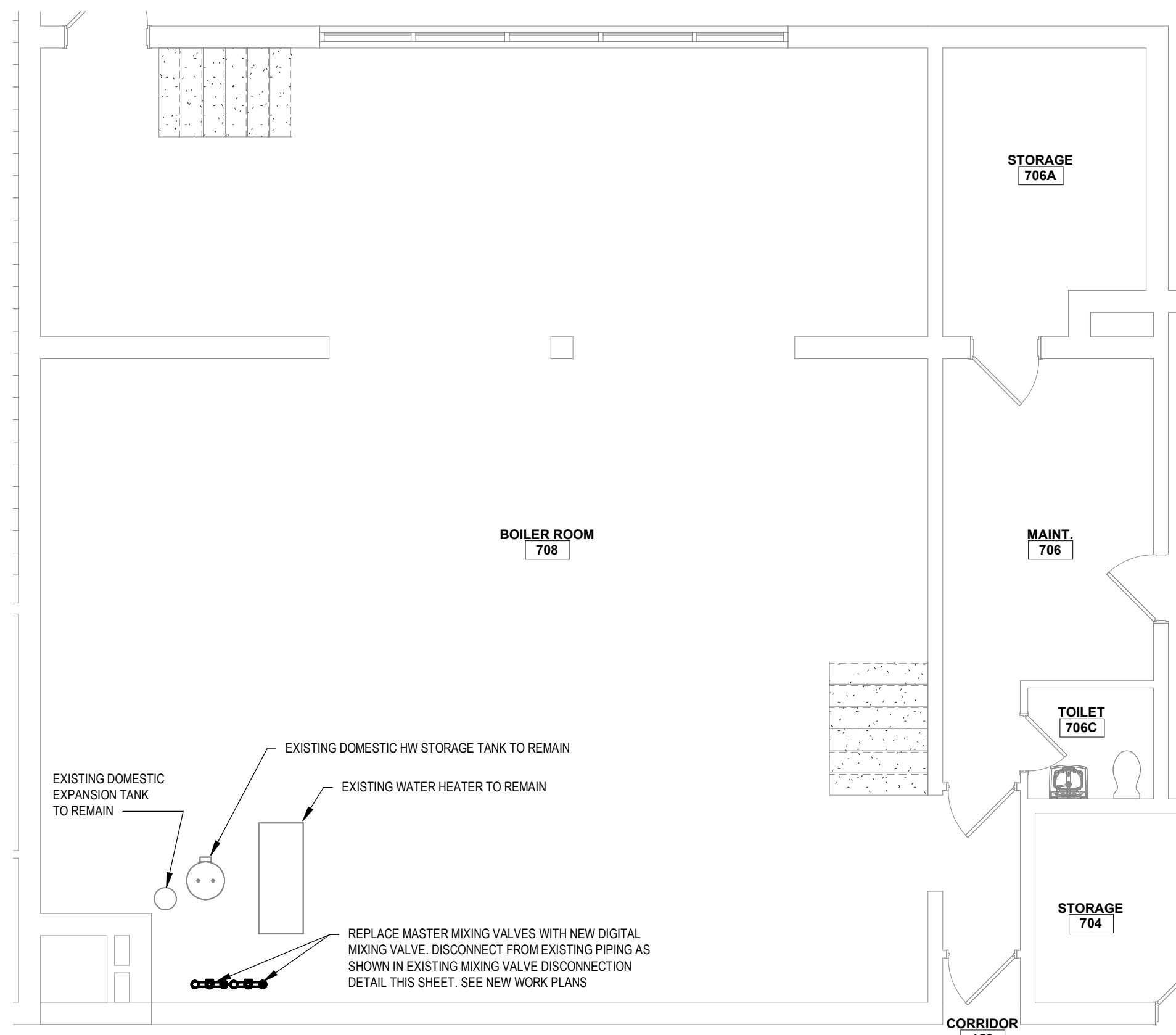
REV	DATE	DESCRIPTION

DRAWN BY TLG	PROJECT NUMBER 2023-105
CHECKED BY JLM	DATE 12/16/2024

DEMOLITION PLANS - SANITARY MAIN REPLACEMENT

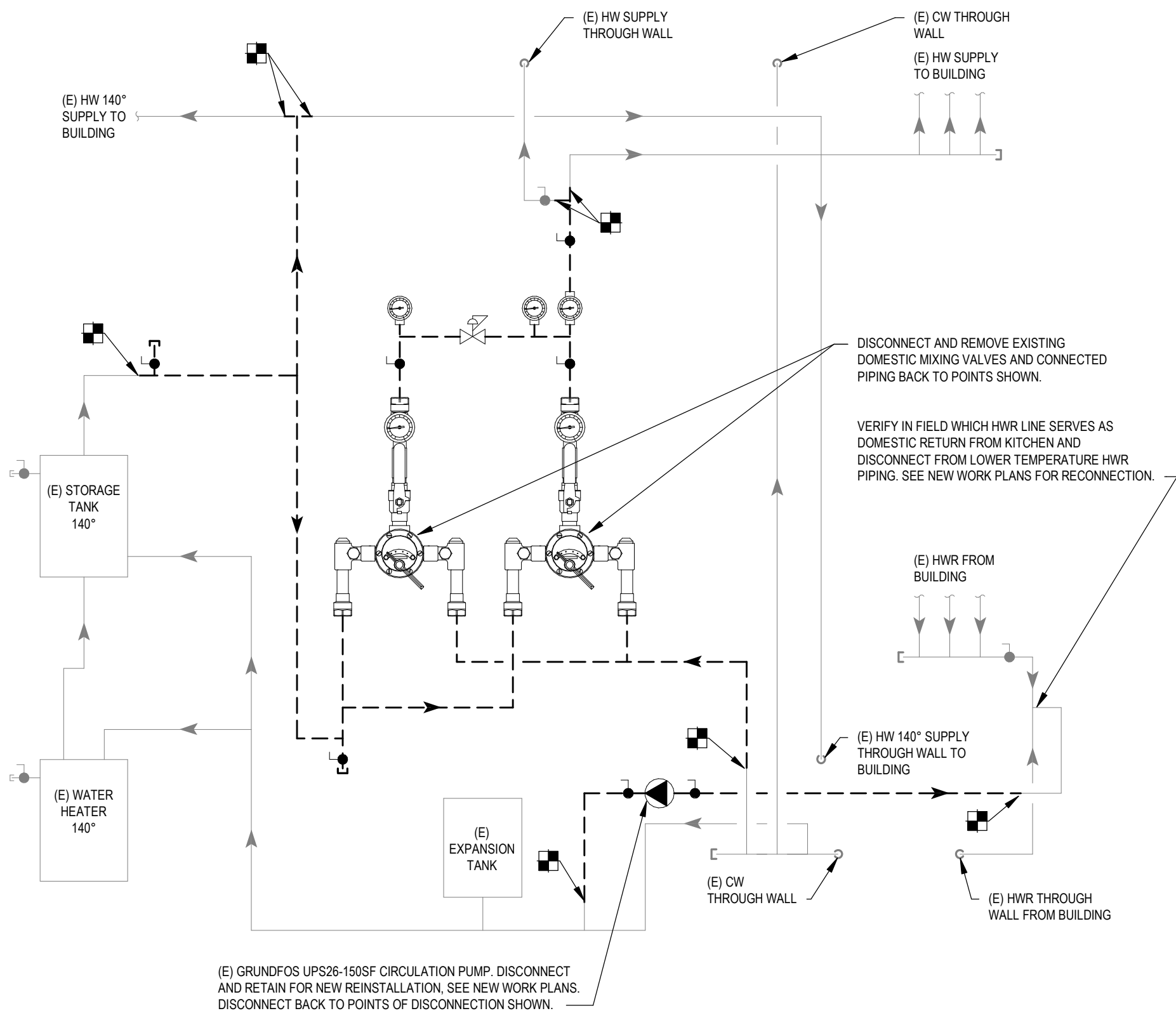
BUILDING NUMBER HS	SHEET NUMBER PD100 BID
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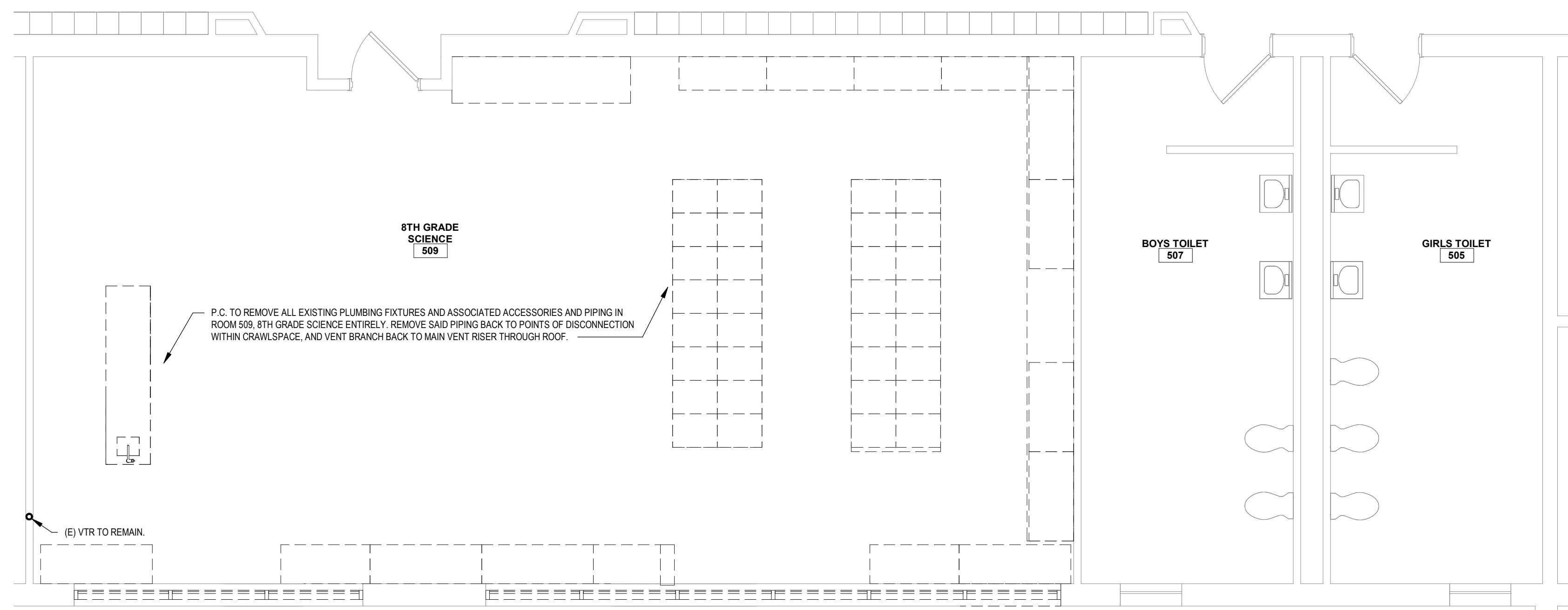
3 BOILER ROOM PLUMBING DEMOLITION PLAN

SCALE: 3/16" = 1'-0"



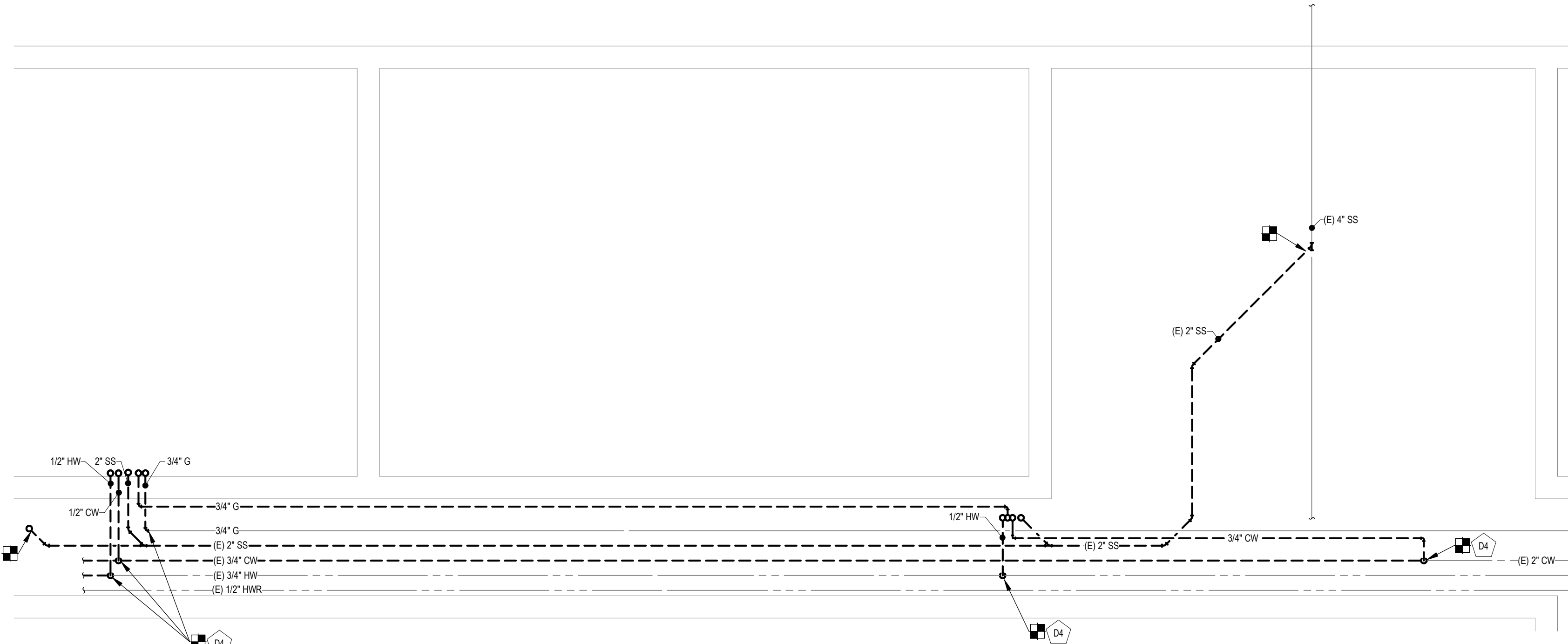
4 EXISTING MIXING VALVE DISCONNECTION DETAIL

SCALE: NOT TO SCALE



1 ALTERNATE PC-3: 8TH SCIENCE PLUMBING DEMOLITION PLAN

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



2 8TH SCIENCE CRAWLSPACE PLUMBING DEMOLITION PLAN - ALTERNATE

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

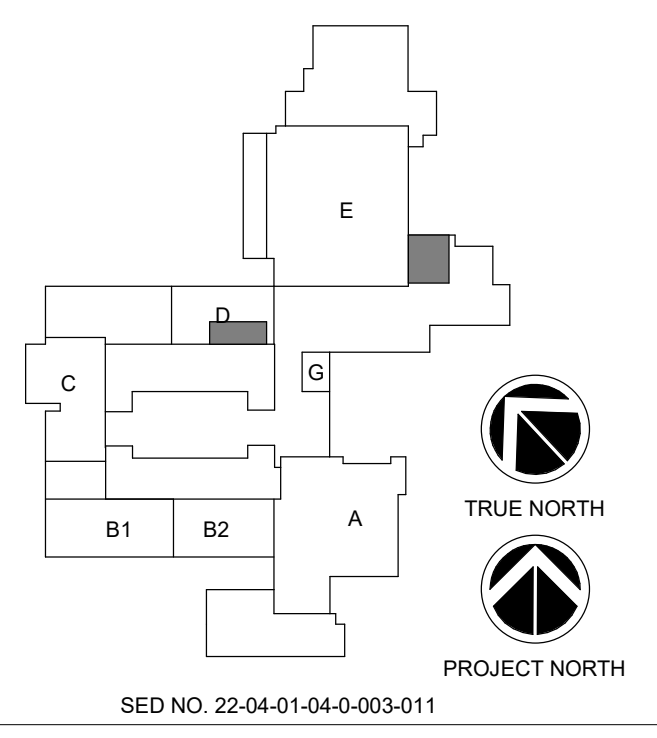
GENERAL NOTES:

- SEE DRAWING PS000 FOR GENERAL NOTES, ABBREVIATIONS, SYMBOLS AND LEGENDS

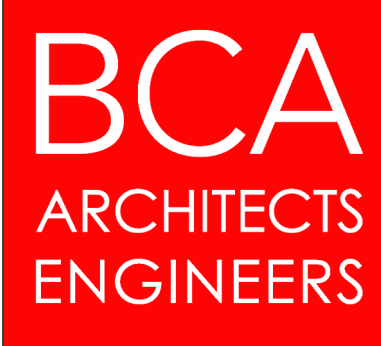
DEMOLITION KEYNOTE LEGEND

- D4 CUT AND CAP.

KEY PLAN:



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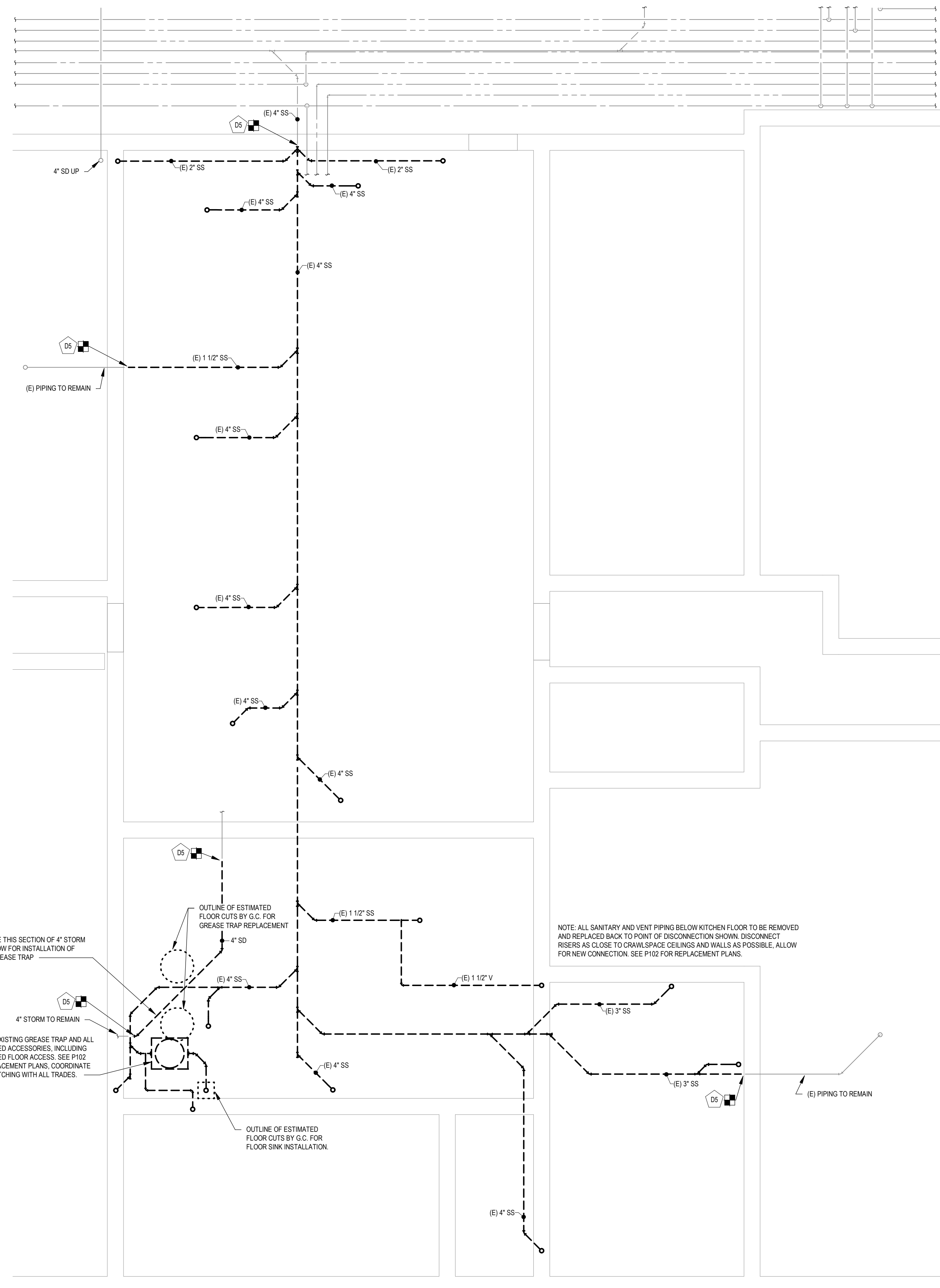
DRAWN BY TLG	PROJECT NUMBER 2023-105
CHECKED BY JLM	DATE 12/16/2024
DEMOLITION PLANS - SCIENCE & MIXING VALVE REPLACEMENT	
BUILDING NUMBER HS	SHEET NUMBER PD101 BID

GENERAL NOTES:

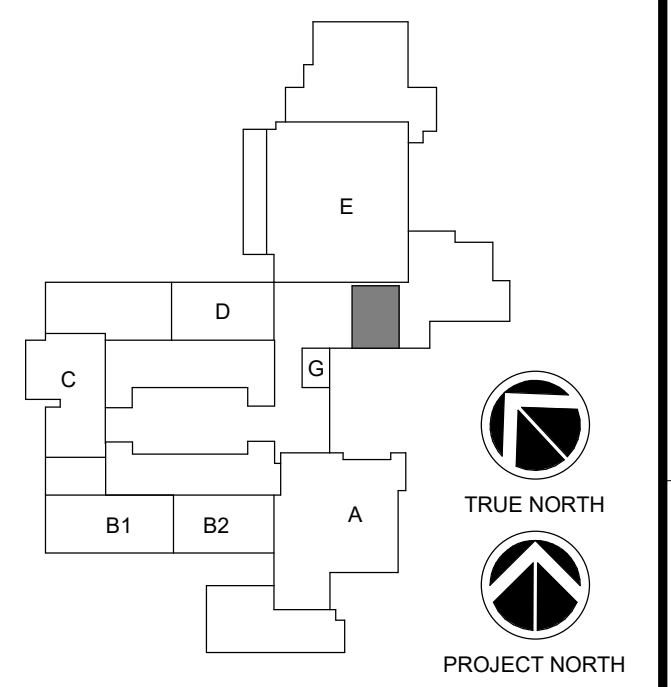
- SEE DRAWING PS000 FOR GENERAL NOTES, ABBREVIATIONS, SYMBOLS AND LEGENDS

DEMOLITION KEYNOTE LEGEND

- DS DISCONNECT AT THIS POINT. SEE NEW WORK PLANS FOR RECONNECTION.



KEY PLAN:



SED NO. 22-04-01-04-0-003-011

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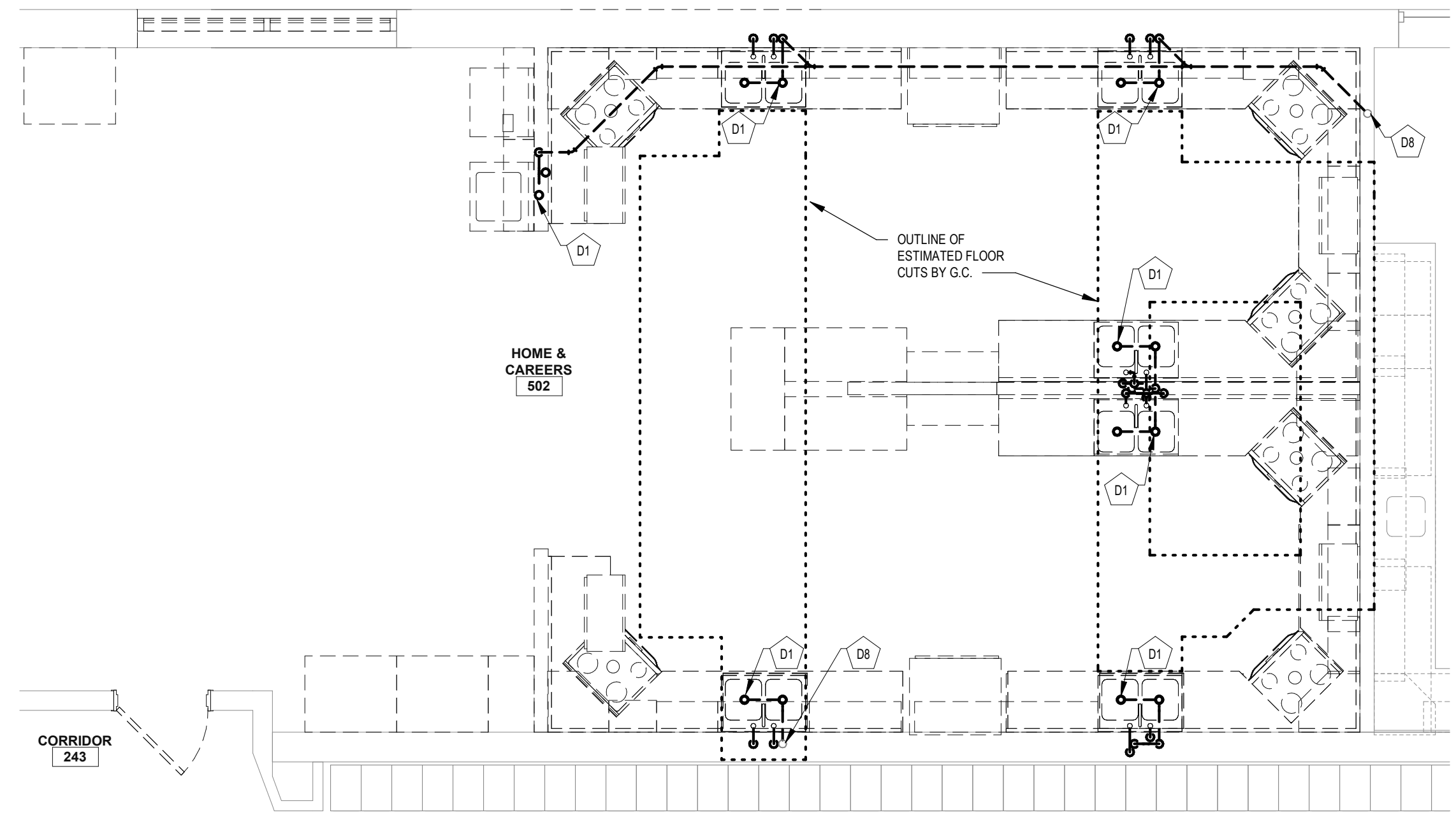
DRAWN BY TLG	PROJECT NUMBER 2023-105
CHECKED BY JLM	DATE 12/16/2024

DEMOLITION PLANS - KITCHEN

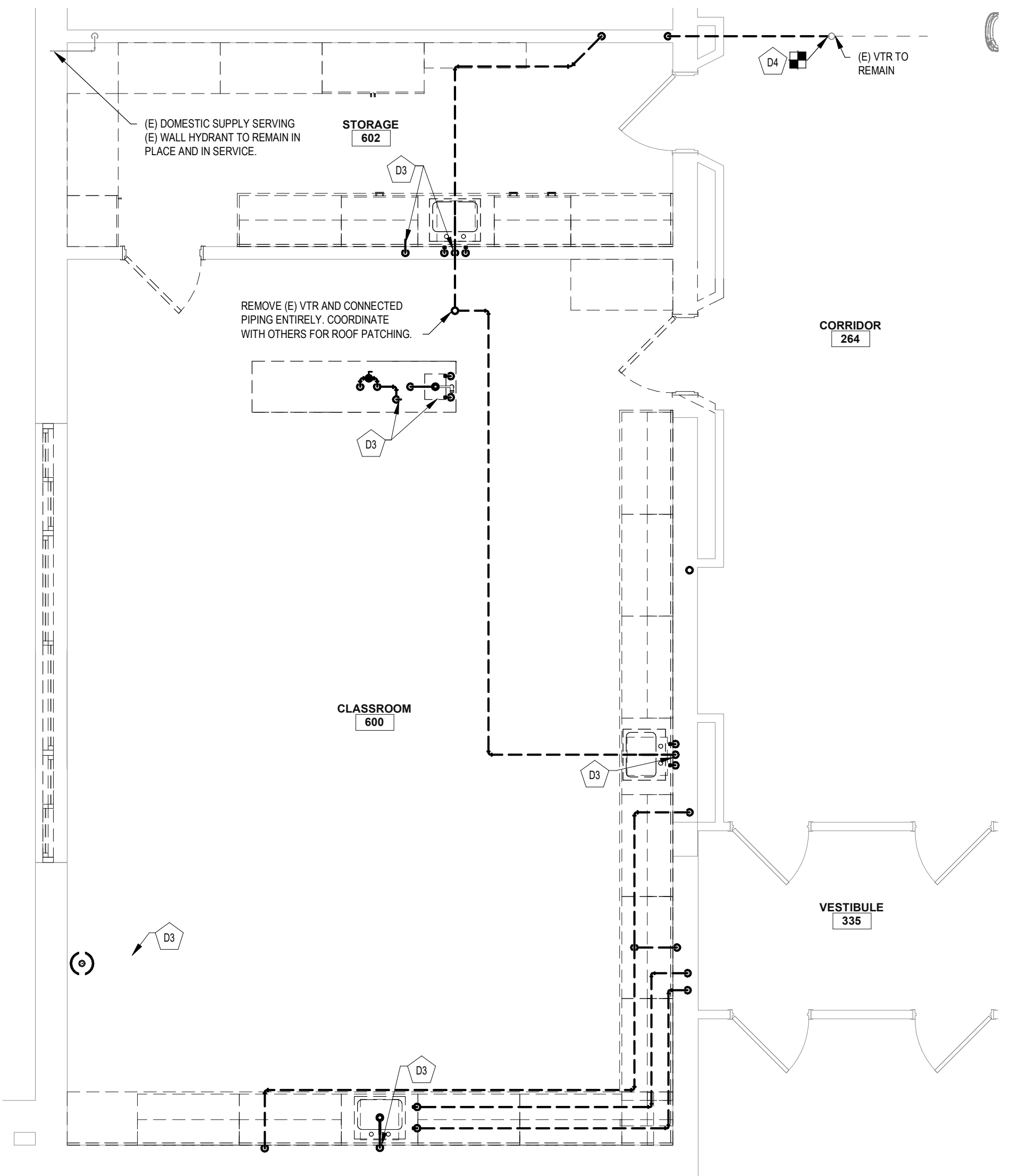
BUILDING NUMBER HS	SHEET NUMBER PD102 BID
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1 BASEMENT PLUMBING DEMOLITION PLAN
 SCALE: 1/4" = 1'-0"

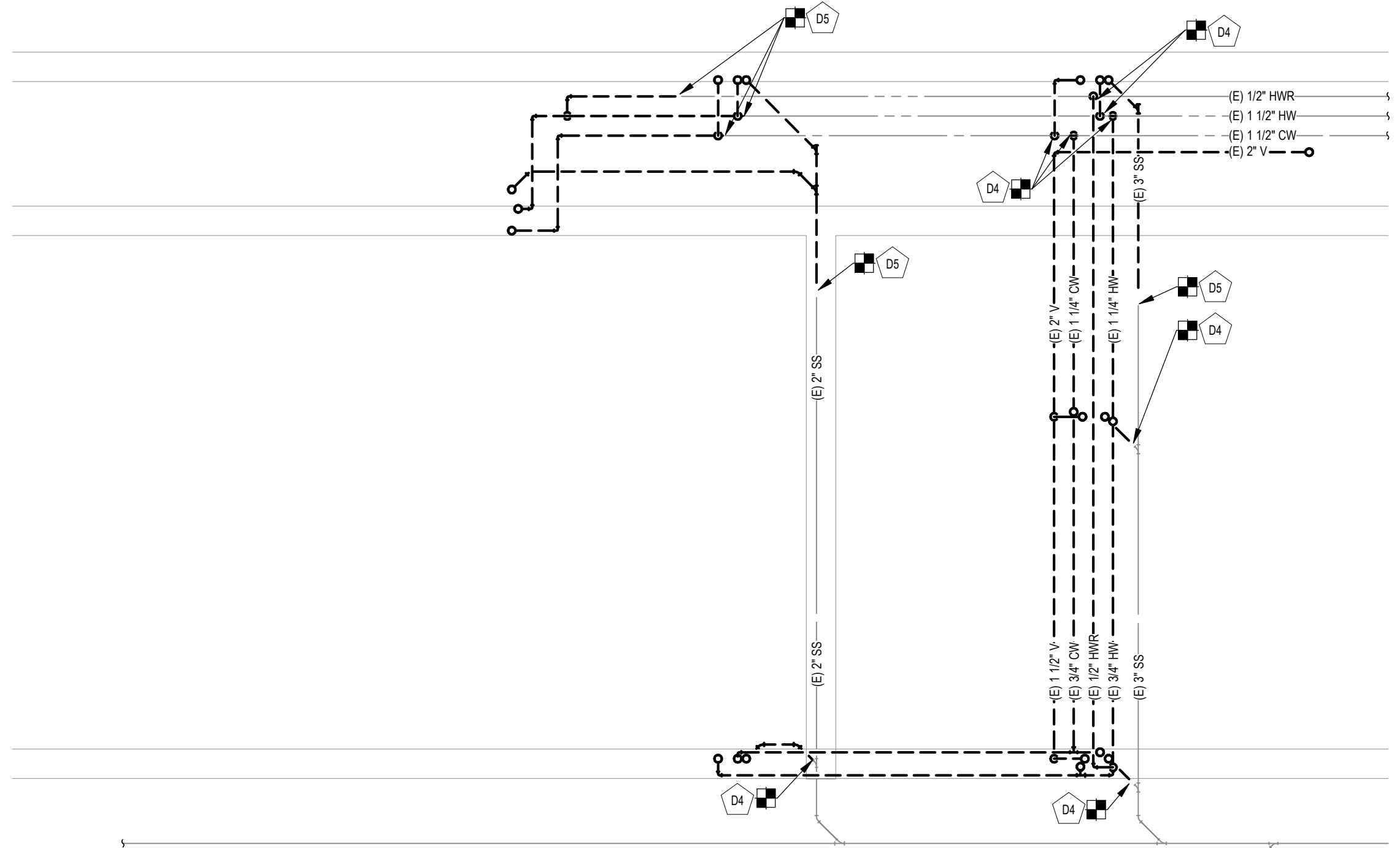
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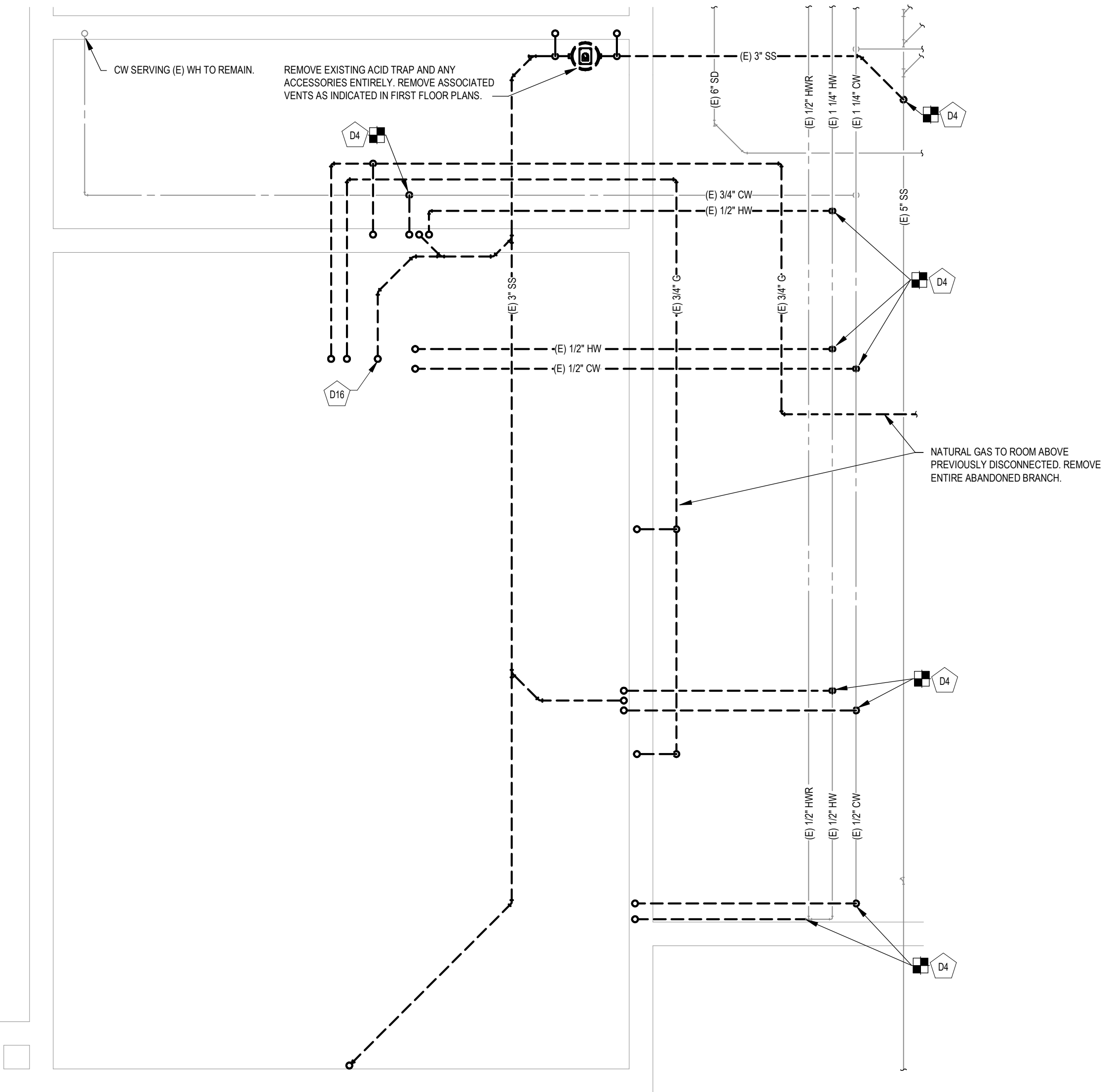
1 HOME ECON PLUMBING DEMOLITION PLAN
SCALE: 1/4" = 1'-0"



3 CLASSROOM 600 PLUMBING DEMOLITION PLAN
SCALE: 1/4" = 1'-0"



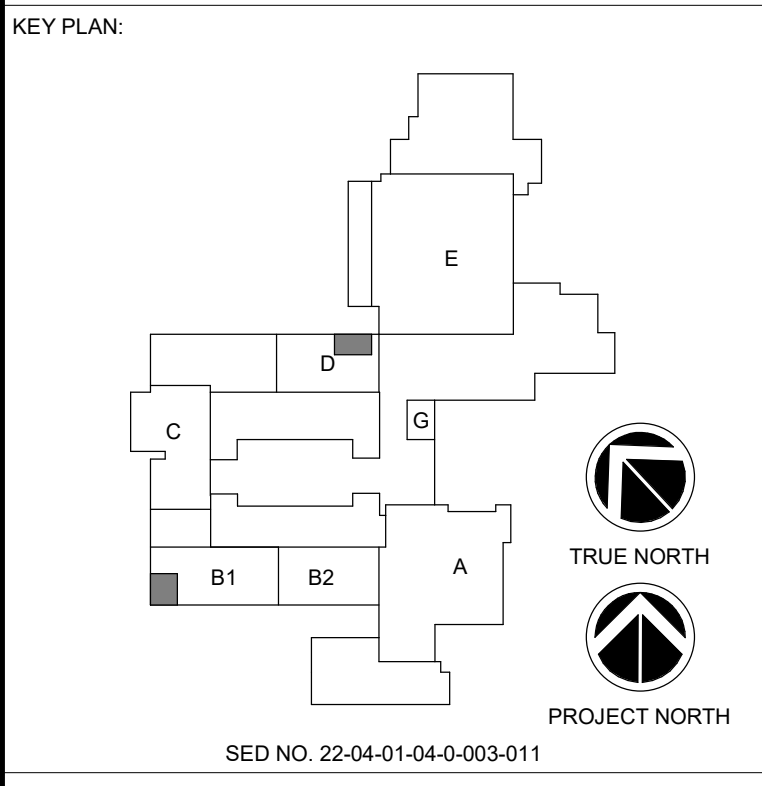
2 HOME ECON CRAWLSPACE PLUMBING DEMOLITION PLAN
SCALE: 1/4" = 1'-0"



4 CRAWLSPACE CLASSROOM 600 PLUMBING DEMOLITION PLAN
SCALE: 1/4" = 1'-0"

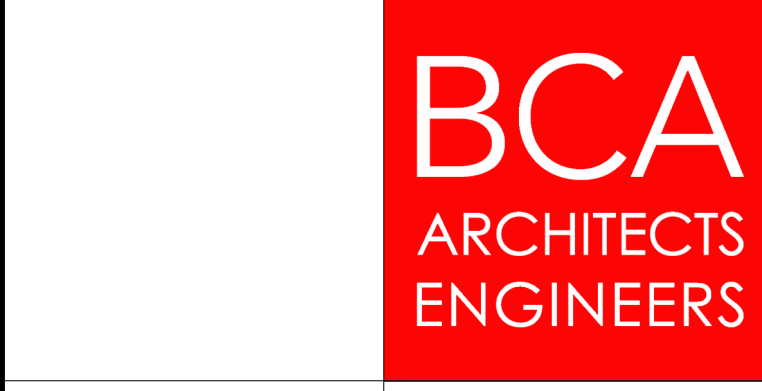
GENERAL NOTES:
1. SEE DRAWING PS000 FOR GENERAL NOTES, ABBREVIATIONS, SYMBOLS AND LEGENDS

- DEMOLITION KEYNOTE LEGEND**
- D1 REMOVE EXISTING PLUMBING FIXTURE AND ALL ASSOCIATED ACCESSORIES. DISCONNECT AND REMOVE PIPING BACK TO POINTS OF DISCONNECTION SHOWN. COORDINATE WITH G.C. FOR ANY PATCHING OF FINISHED SURFACES.
 - D2 REMOVE EXISTING PLUMBING FIXTURE AND ALL ASSOCIATED ACCESSORIES. DISCONNECT AND REMOVE PIPING BACK TO MAINS. CUT AND CAP. COORDINATE WITH G.C. FOR ANY PATCHING OF FINISHED SURFACES.
 - D3 CUT AND CAP
 - D4 DISCONNECT AT THIS POINT. SEE NEW WORK PLANS FOR RECONNECTION.
 - D5 (E) VTR TO REMAIN. DISCONNECT FROM VENT BRANCHES TO BE REMOVED. SEE NEW WORK PLANS FOR RECONNECTION.
 - D16 REMOVE SECTION OF PIPING SHOWN TO BE DEMOLISHED, AND ASSOCIATED PIPING THAT IS READILY ACCESSIBLE BACK TO JUST BEYOND SLAB AND CAP EITHER END. EXISTING PIPING BURIED WITHIN SLAB TO BE ABANDONED IN PLACE. ONLY REMOVE BURIED PIPING TO MAKE WAY FOR ANY NEW PIPING. SEE NEW WORK PLANS. COORDINATE WITH G.C. FOR ANY FLOOR PATCHING. (TYPICAL ALL PIPING SHOWN AS DEMOLISHED IN THIS VIEW).



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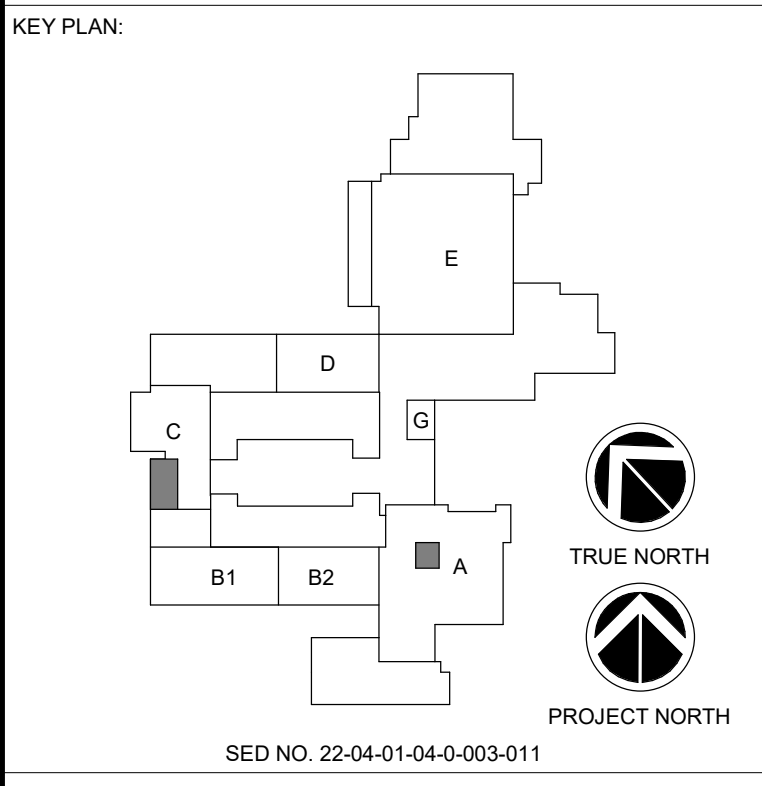
DRAWN BY TLG	PROJECT NUMBER 2023-105
CHECKED BY JLM	DATE 12/16/2024

DEMOLITION PLANS - CLASSROOM AND HOME ECON

BUILDING NUMBER HS	SHEET NUMBER PD103 BID
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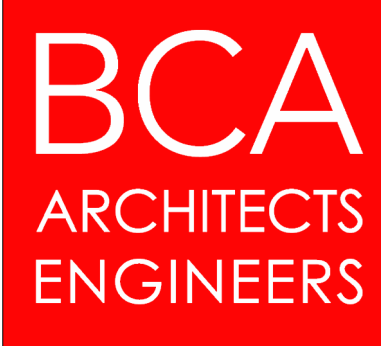
GENERAL NOTES:
 1. SEE DRAWING PS000 FOR GENERAL NOTES, ABBREVIATIONS, SYMBOLS AND LEGENDS

- DEMOLITION KEYNOTE LEGEND**
- D1 REMOVE EXISTING PLUMBING FIXTURE AND ALL ASSOCIATED ACCESSORIES. DISCONNECT AND REMOVE PIPING BACK TO POINTS OF DISCONNECTION SHOWN. COORDINATE WITH G.C. FOR ANY PATCHING OF FINISHED SURFACES.
 - D4 CUT AND CAP
 - D5 DISCONNECT AT THIS POINT. SEE NEW WORK PLANS FOR RECONNECTION.
 - D6 FLOOR DRAIN TO BE REMOVED. REMOVE PIPING BELOW FLOOR BACK TO POINT OF DISCONNECTION SHOWN. COORDINATE WITH OTHERS FOR FLOOR PATCHING.
 - D8 (E) VTR TO REMAIN. DISCONNECT FROM VENT BRANCHES TO BE REMOVED. SEE NEW WORK PLANS FOR RECONNECTION.
 - D16 REMOVE SECTION OF PIPING SHOWN TO BE DEMOLISHED, AND ASSOCIATED PIPING THAT IS READILY ACCESSIBLE BACK TO JUST BEYOND SLAB AND CAP EITHER END. EXISTING PIPING BURIED WITHIN SLAB TO BE ABANDONED IN PLACE. ONLY REMOVE BURIED PIPING TO MAKE WAY FOR ANY NEW PIPING. SEE NEW WORK PLANS. COORDINATE WITH G.C. FOR ANY FLOOR PATCHING. (TYPICAL ALL PIPING SHOWN AS DEMOLISHED IN THIS VIEW).



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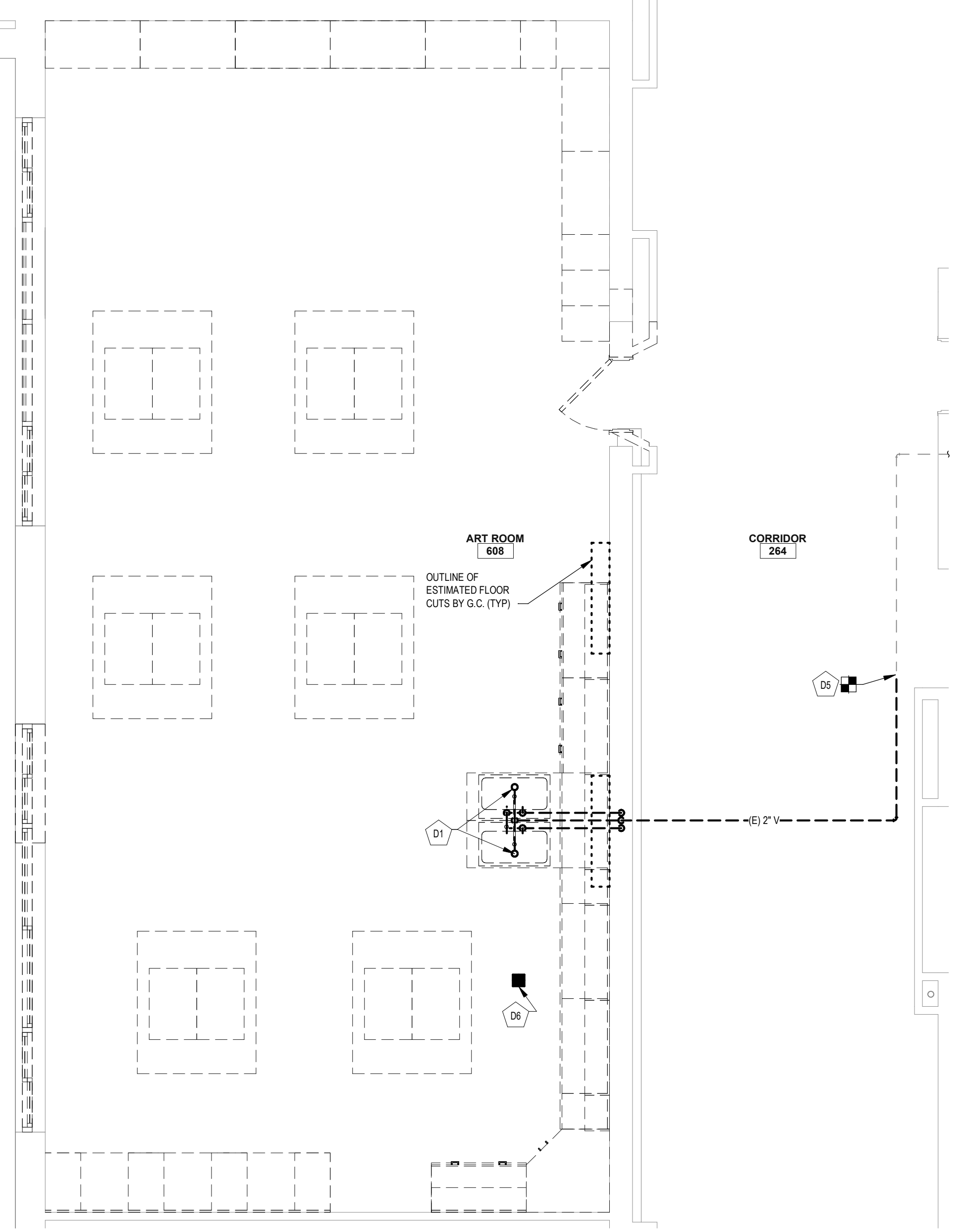
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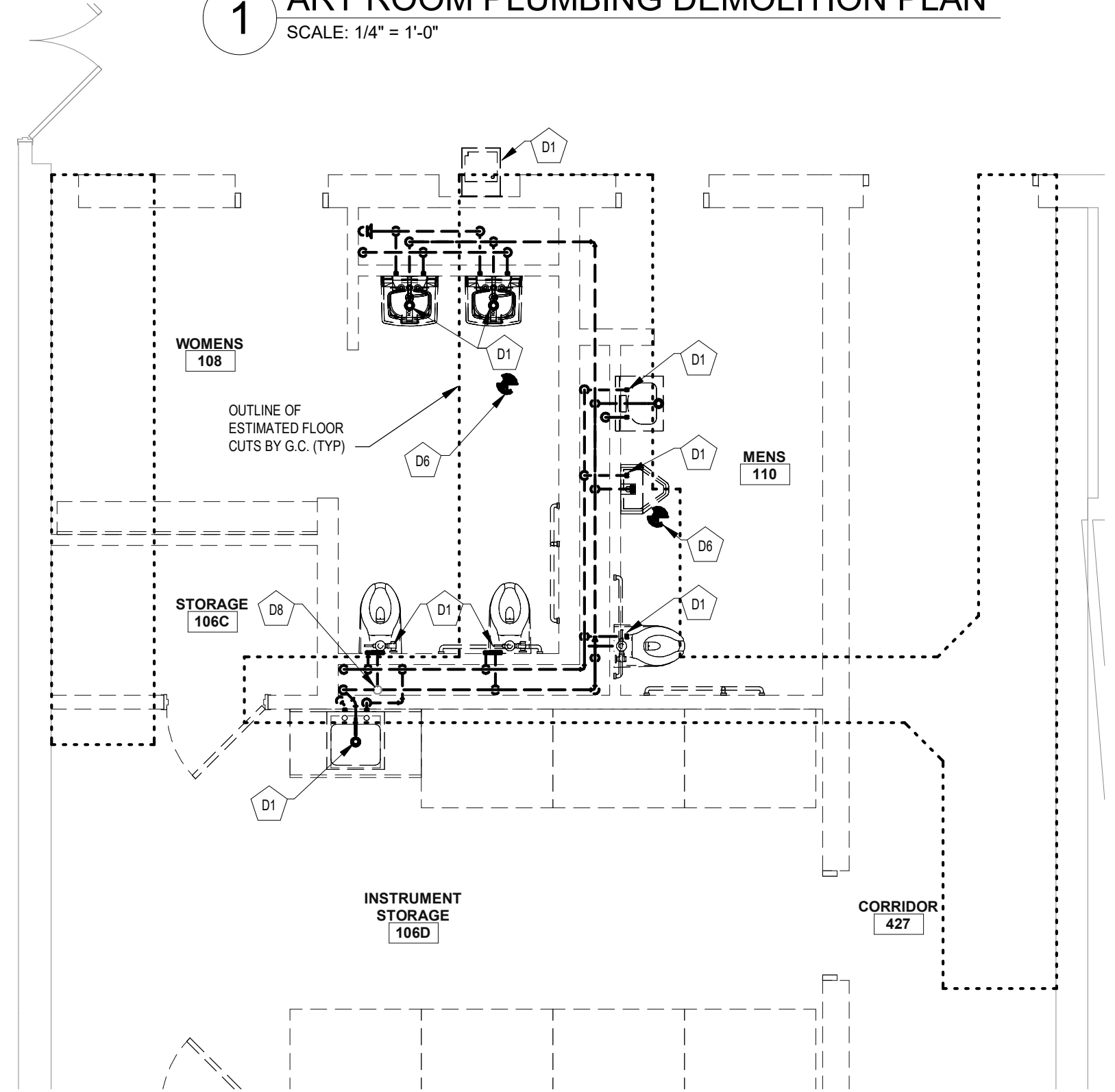
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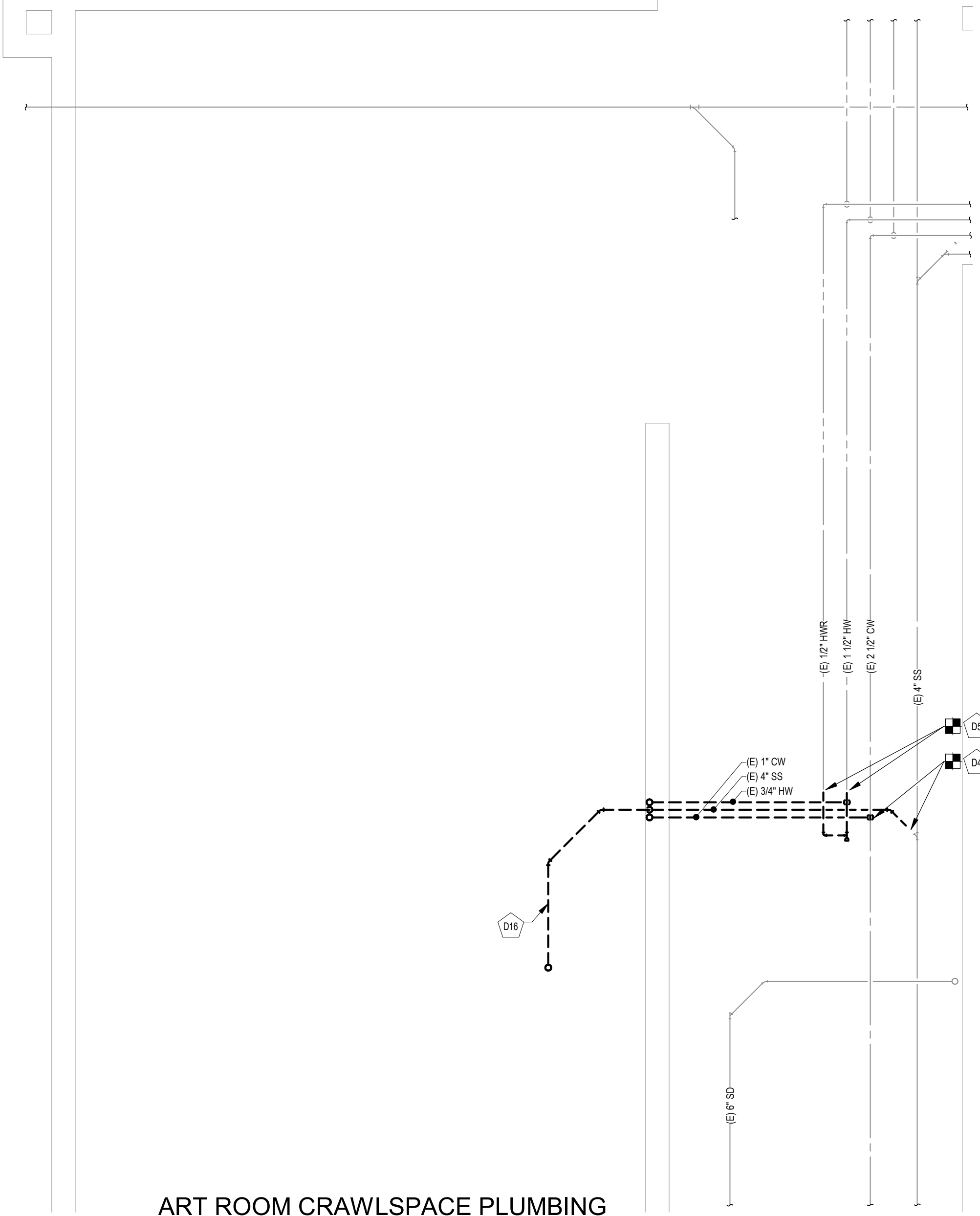
DRAWN BY TLG	PROJECT NUMBER 2023-105
CHECKED BY JLM	DATE 12/16/2024
DEMOLITION PLANS - MAIN ENTRANCE TR'S AND ART ROOM	
BUILDING NUMBER HS	SHEET NUMBER PD104 BID



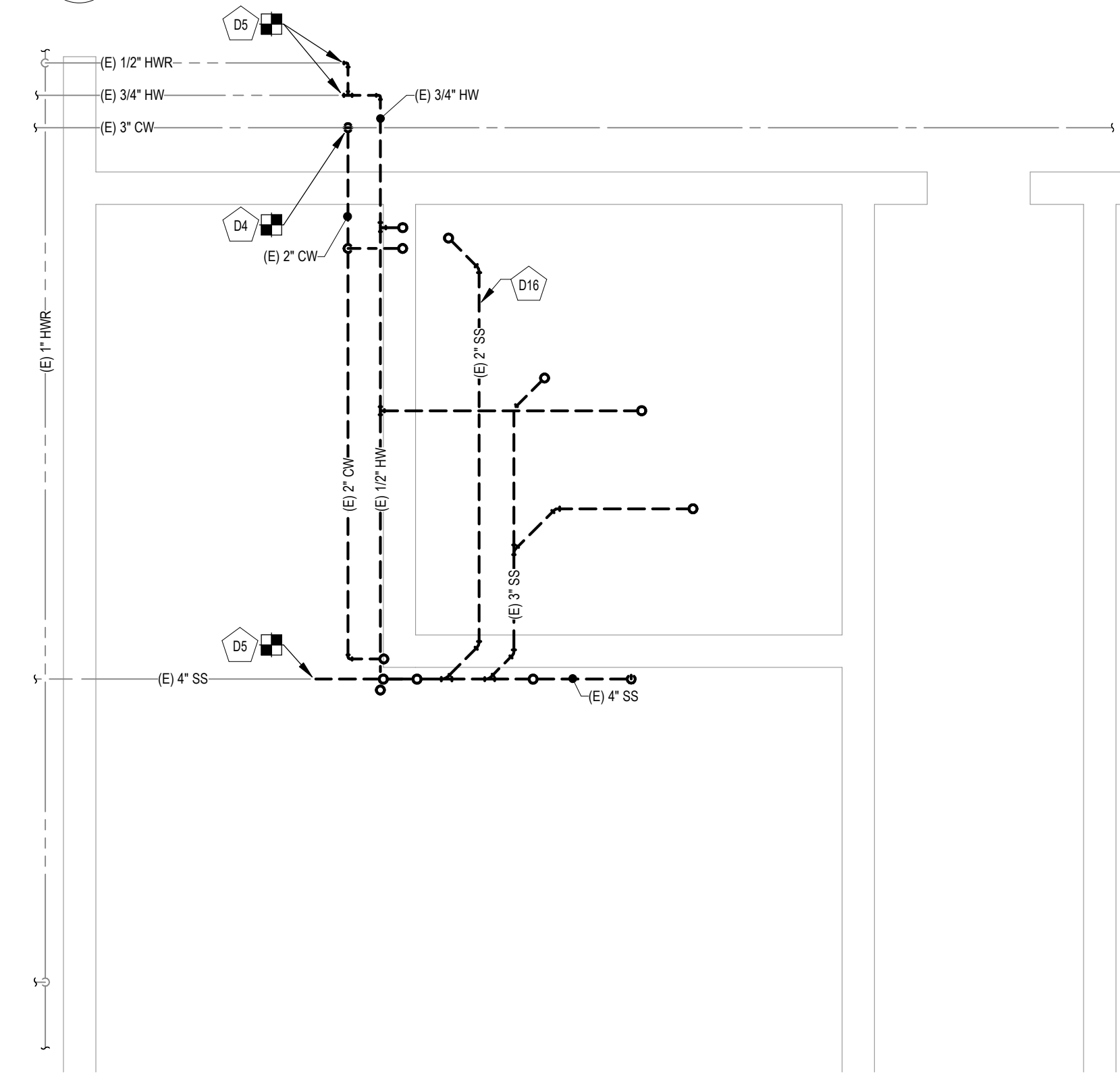
1 ART ROOM PLUMBING DEMOLITION PLAN
 SCALE: 1/4" = 1'-0"



3 AREA A TOILET ROOM PLUMBING DEMOLITION PLAN
 SCALE: 1/4" = 1'-0"



2 ART ROOM CRAWLSPACE PLUMBING DEMOLITION PLAN - ALTERNATE
 SCALE: 1/4" = 1'-0"



4 AREA A TOILET ROOM CRAWLSPACE PLUMBING DEMOLITION PLAN
 SCALE: 1/4" = 1'-0"

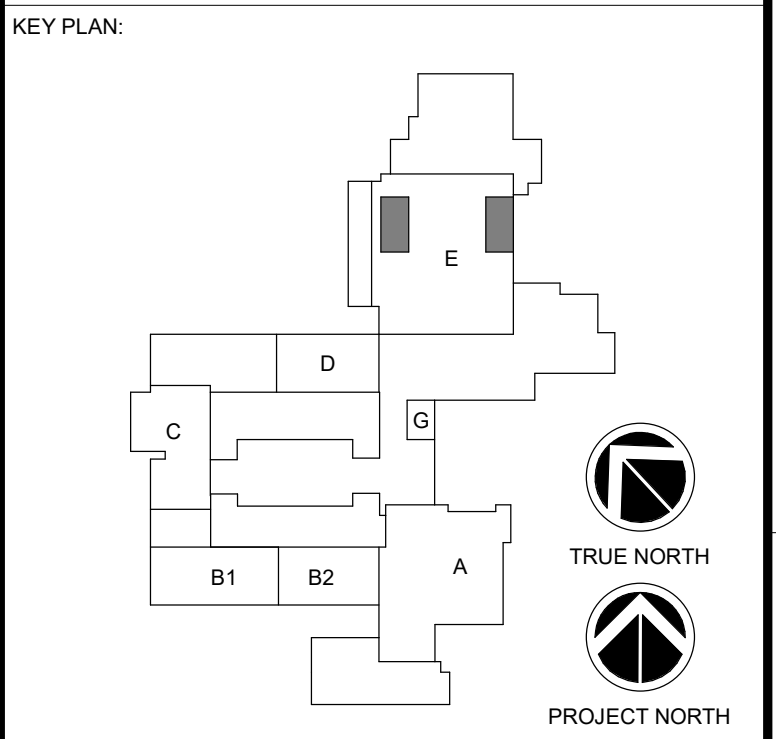
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GENERAL NOTES:

- SEE DRAWING PS000 FOR GENERAL NOTES, ABBREVIATIONS, SYMBOLS AND LEGENDS

DEMOLITION KEYNOTE LEGEND

- D1 REMOVE EXISTING PLUMBING FIXTURE AND ALL ASSOCIATED ACCESSORIES. DISCONNECT AND REMOVE PIPING BACK TO POINTS OF DISCONNECTION SHOWN. COORDINATE WITH G.C. FOR ANY PATCHING OF FINISHED SURFACES.
- D2 REMOVE EXISTING PLUMBING FIXTURE AND ALL ASSOCIATED ACCESSORIES. DISCONNECT AND REMOVE PIPING BEYOND FINISHED SURFACES. COORDINATE WITH G.C. FOR ANY PATCHING OF FINISHED SURFACES.
- D4 CUT AND CAP.
- D5 DISCONNECT AT THIS POINT. SEE NEW WORK PLANS FOR RECONNECTION.
- D6 FLOOR DRAIN TO BE REMOVED. REMOVE PIPING BELOW FLOOR BACK TO POINT OF DISCONNECTION SHOWN. COORDINATE WITH OTHERS FOR FLOOR PATCHING.
- D7 REMOVE ALL EXISTING SHOWERS AND ASSOCIATED ACCESSORIES WITHIN ROOM AND WALLS OF ROOM. DISCONNECT AND REMOVE PIPING BACK TO POINTS OF DISCONNECTION SHOWN BELOW FLOOR. COORDINATE WITH G.C. FOR ANY PATCHING OF FINISHED SURFACES.
- D11 (E) VTR TO BE REMOVED ENTIRELY. COORDINATE WITH G.C. FOR ROOF PENETRATION SEALING/PATCHING.
- D16 REMOVE SECTION OF PIPING SHOWN TO BE DEMOLISHED, AND ASSOCIATED PIPING THAT IS READILY ACCESSIBLE BACK TO JUST BEYOND SLAB AND CAP EITHER END. EXISTING PIPING BURIED WITHIN SLAB TO BE ABANDONED IN PLACE. ONLY REMOVE BURIED PIPING TO MAKE WAY FOR ANY NEW PIPING. SEE NEW WORK PLANS. COORDINATE WITH G.C. FOR ANY FLOOR PATCHING. (TYPICAL ALL PIPING SHOWN AS DEMOLISHED IN THIS VIEW).



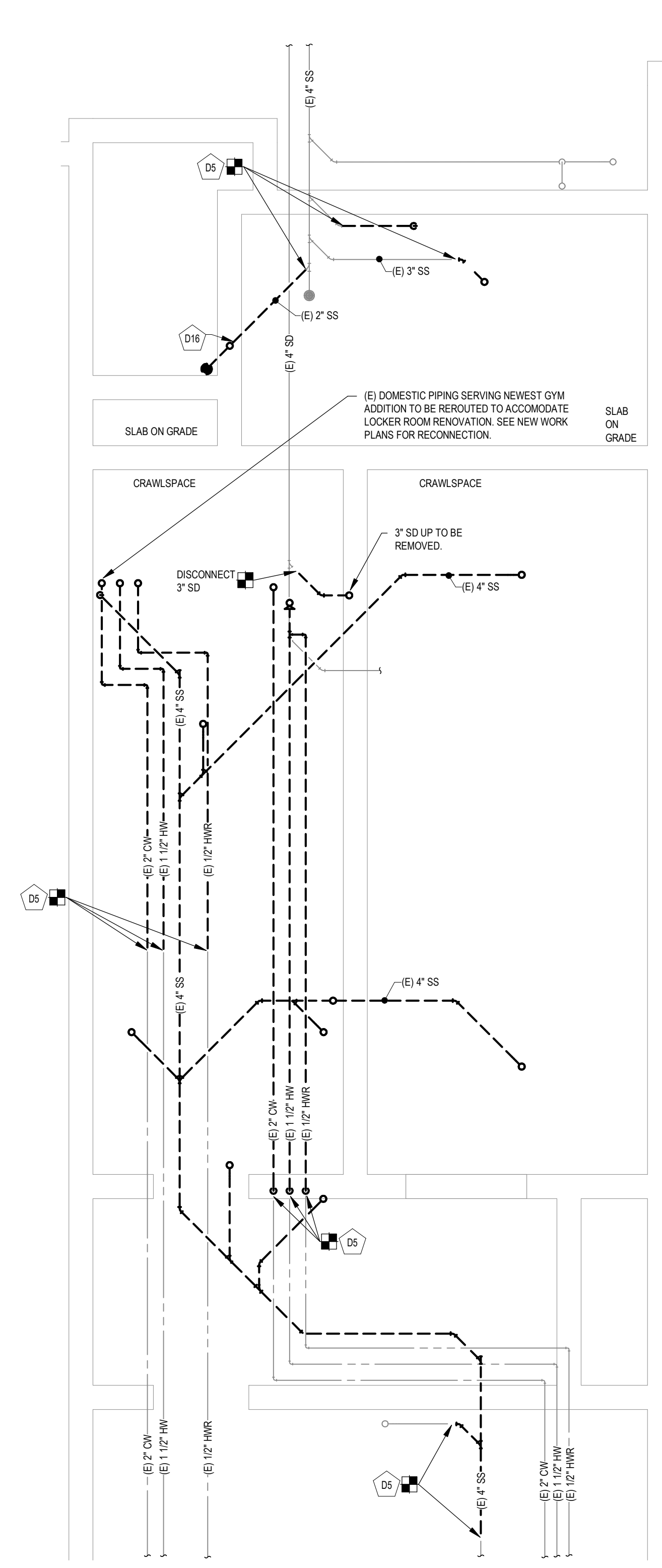
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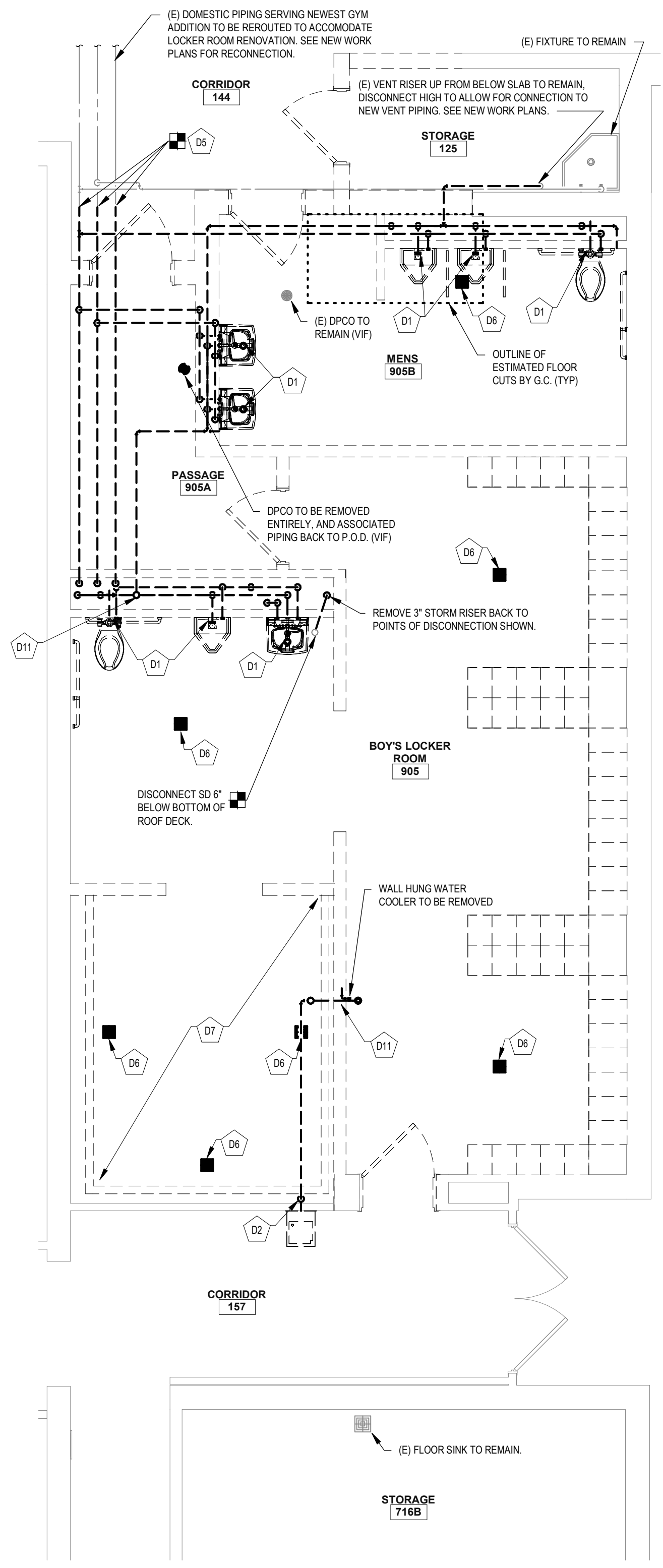


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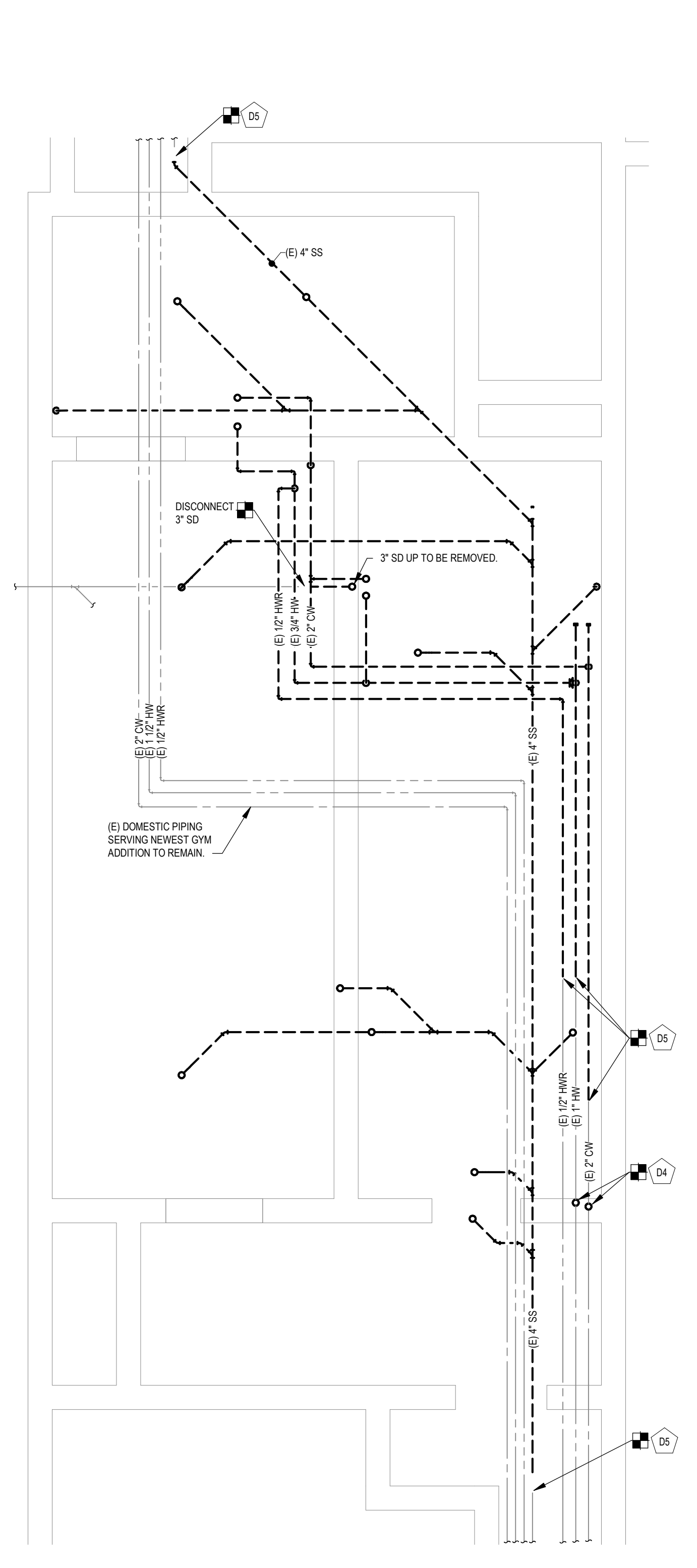
REV	DATE	DESCRIPTION
DRAWN BY		PROJECT NUMBER
CHECKED BY		DATE
DEMOLITION PLANS - LOCKER ROOMS		
BUILDING NUMBER	SHEET NUMBER	
HS	PD105	
	BID	



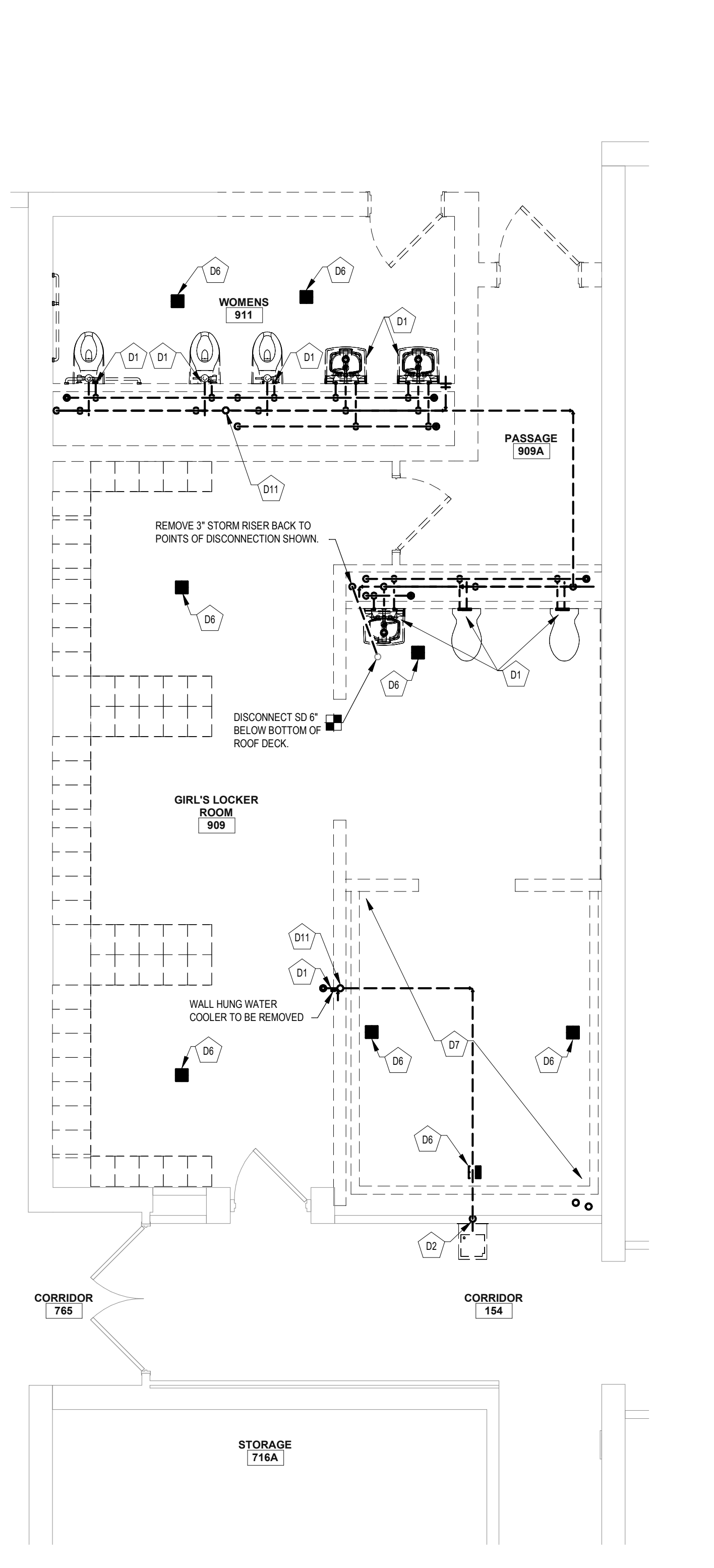
4 BOYS LOCKERS CRAWLSPACE PLUMBING DEMOLITION PLAN
 SCALE: 1/4" = 1'-0"



3 BOYS LOCKERS PLUMBING DEMOLITION PLAN
 SCALE: 1/4" = 1'-0"



2 GIRLS LOCKERS CRAWLSPACE PLUMBING DEMOLITION PLAN
 SCALE: 1/4" = 1'-0"



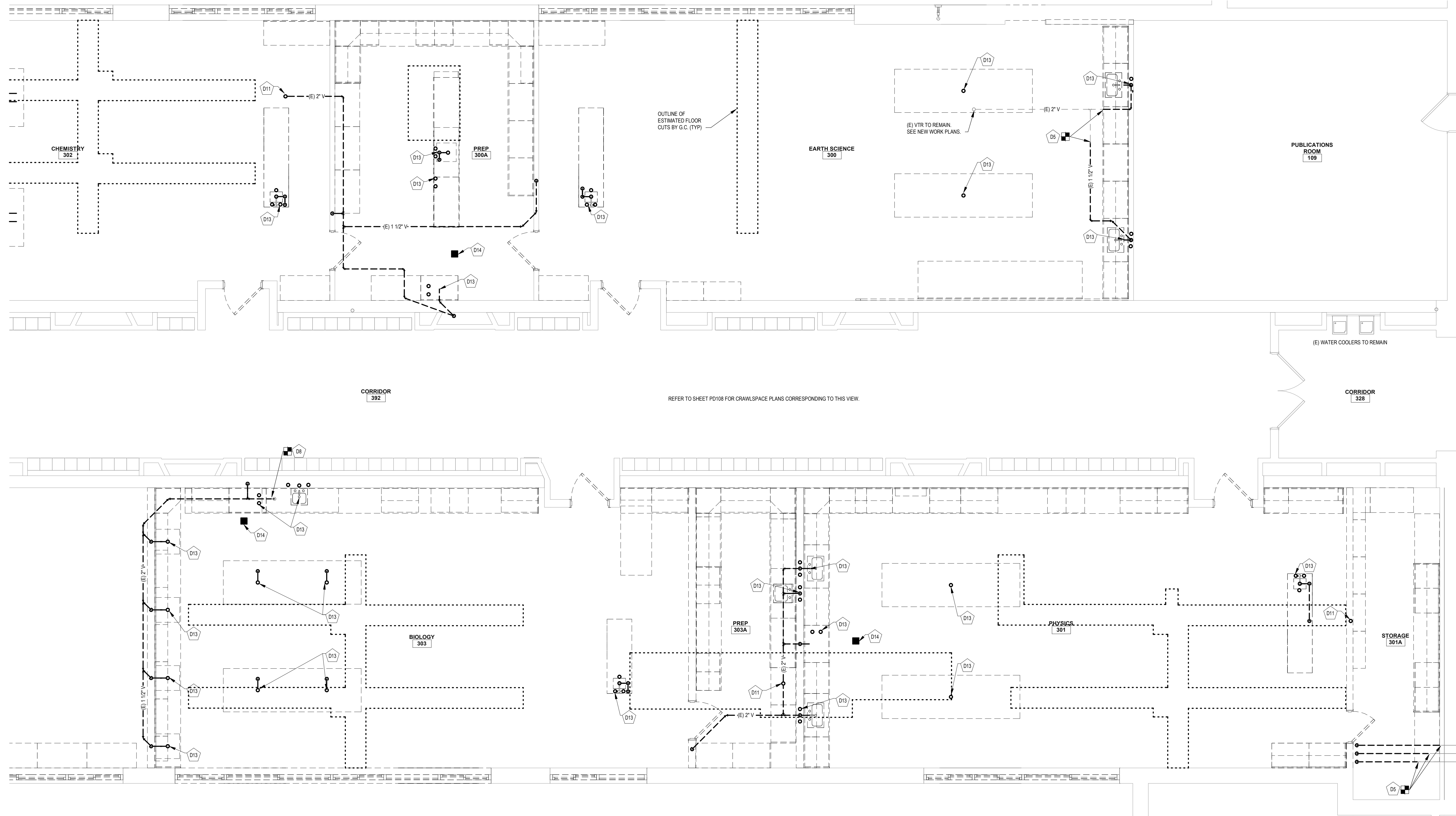
1 GIRLS LOCKER ROOM PLUMBING DEMOLITION PLAN
 SCALE: 1/4" = 1'-0"

GENERAL NOTES:

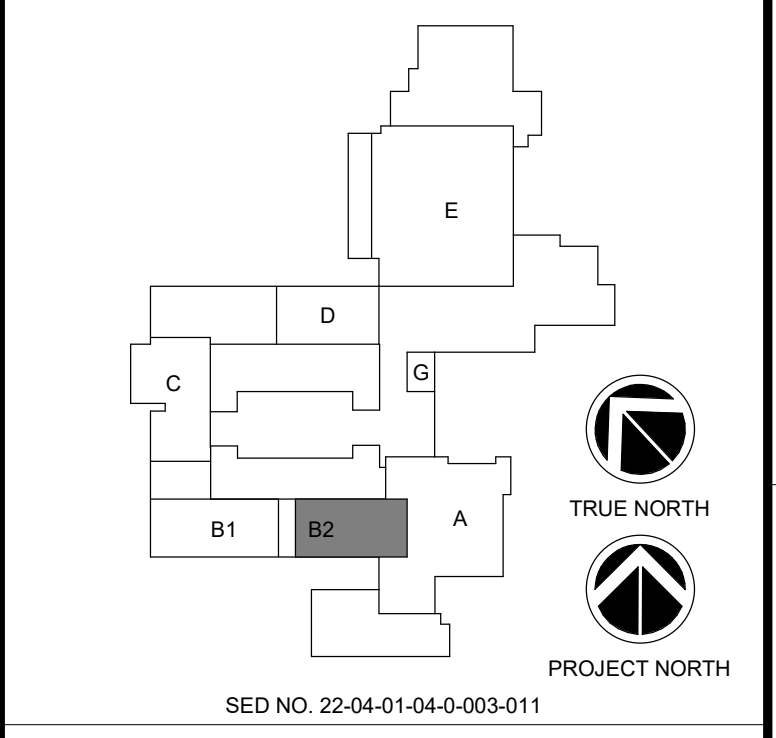
- SEE DRAWING PS000 FOR GENERAL NOTES, ABBREVIATIONS, SYMBOLS AND LEGENDS

DEMOLITION KEYNOTE LEGEND

- D6 DISCONNECT AT THIS POINT. SEE NEW WORK PLANS FOR RECONNECTION.
- D8 (E) VTR TO REMAIN. DISCONNECT FROM VENT BRANCHES TO BE REMOVED. SEE NEW WORK PLANS FOR RECONNECTION.
- D11 (E) VTR TO BE REMOVED ENTIRELY. COORDINATE WITH G.C. FOR ROOF PENETRATION SEALING/PATCHING.
- D13 REMOVE EXISTING PLUMBING FIXTURE AND ALL ASSOCIATED ACCESSORIES. DISCONNECT AND REMOVE PIPING BELOW FINISHED FLOOR. CUT AND CAP. COORDINATE WITH G.C. FOR ANY PATCHING OF FINISHED SURFACES.
- D14 FLOOR DRAIN TO BE REMOVED. REMOVE PIPING BELOW FLOOR AS DESCRIBED IN UNDERFLOOR PLANS.

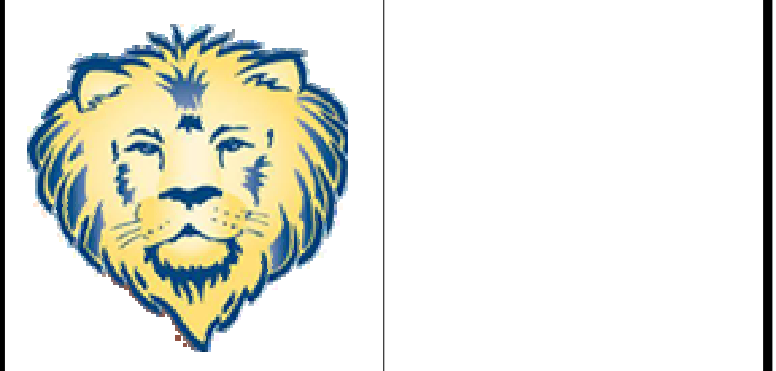
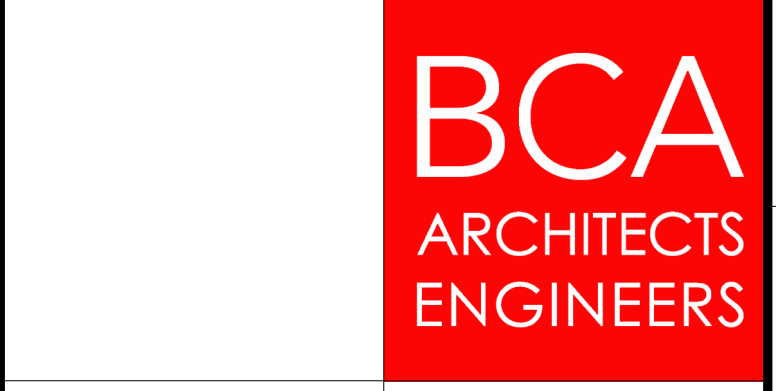


KEY PLAN:



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1 UNDERFLOOR PLUMBING DEMOLITION PLAN
 SCALE: 1/4" = 1'-0"

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CHECKED BY JLM	DATE 12/16/2024
DEMOLITION PLANS - SCIENCE CLASSROOMS EAST	
BUILDING NUMBER HS	SHEET NUMBER PD106 BID

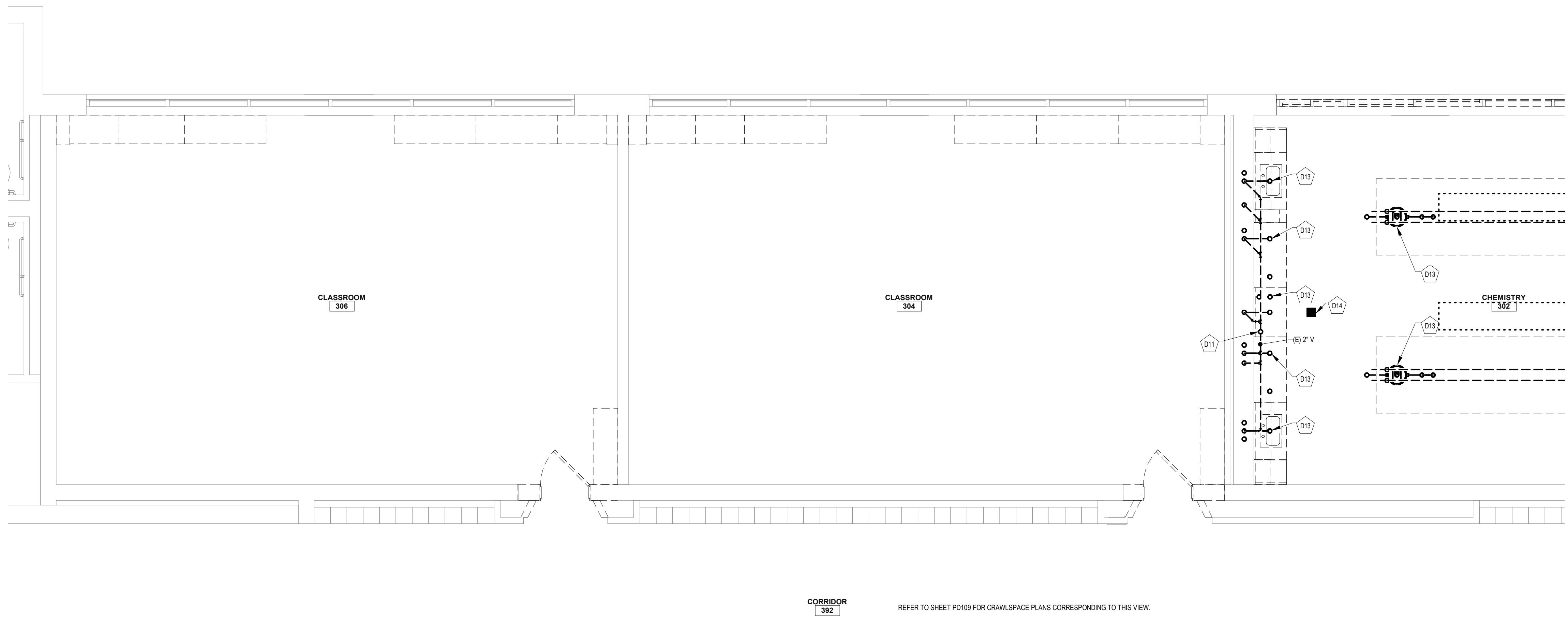
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GENERAL NOTES:

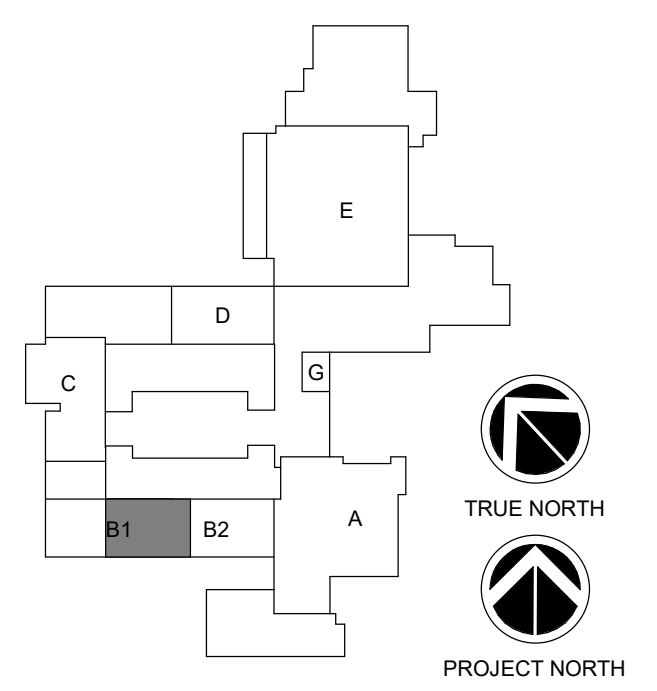
- SEE DRAWING PS000 FOR GENERAL NOTES, ABBREVIATIONS, SYMBOLS AND LEGENDS

DEMOLITION KEYNOTE LEGEND

- D11 (E) VTR TO BE REMOVED ENTIRELY. COORDINATE WITH G.C. FOR ROOF PENETRATION SEALING/PATCHING.
- D13 REMOVE EXISTING PLUMBING FIXTURE AND ALL ASSOCIATED ACCESSORIES. DISCONNECT AND REMOVE PIPING BELOW FINISHED FLOOR. CUT AND CAP. COORDINATE WITH G.C. FOR ANY PATCHING OF FINISHED SURFACES.
- D14 FLOOR DRAIN TO BE REMOVED. REMOVE PIPING BELOW FLOOR AS DESCRIBED IN UNDERFLOOR PLANS.



KEY PLAN:



SED NO. 22-04-01-04-0-003-011

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DRAWN BY TLG	PROJECT NUMBER 2023-105
CHECKED BY JLM	DATE 12/16/2024

DEMOLITION PLANS - SCIENCE CLASSROOMS WEST

BUILDING NUMBER HS	SHEET NUMBER PD107 BID
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1 UNDERFLOOR PLUMBING DEMOLITION PLAN
 SCALE: 1/4" = 1'-0"

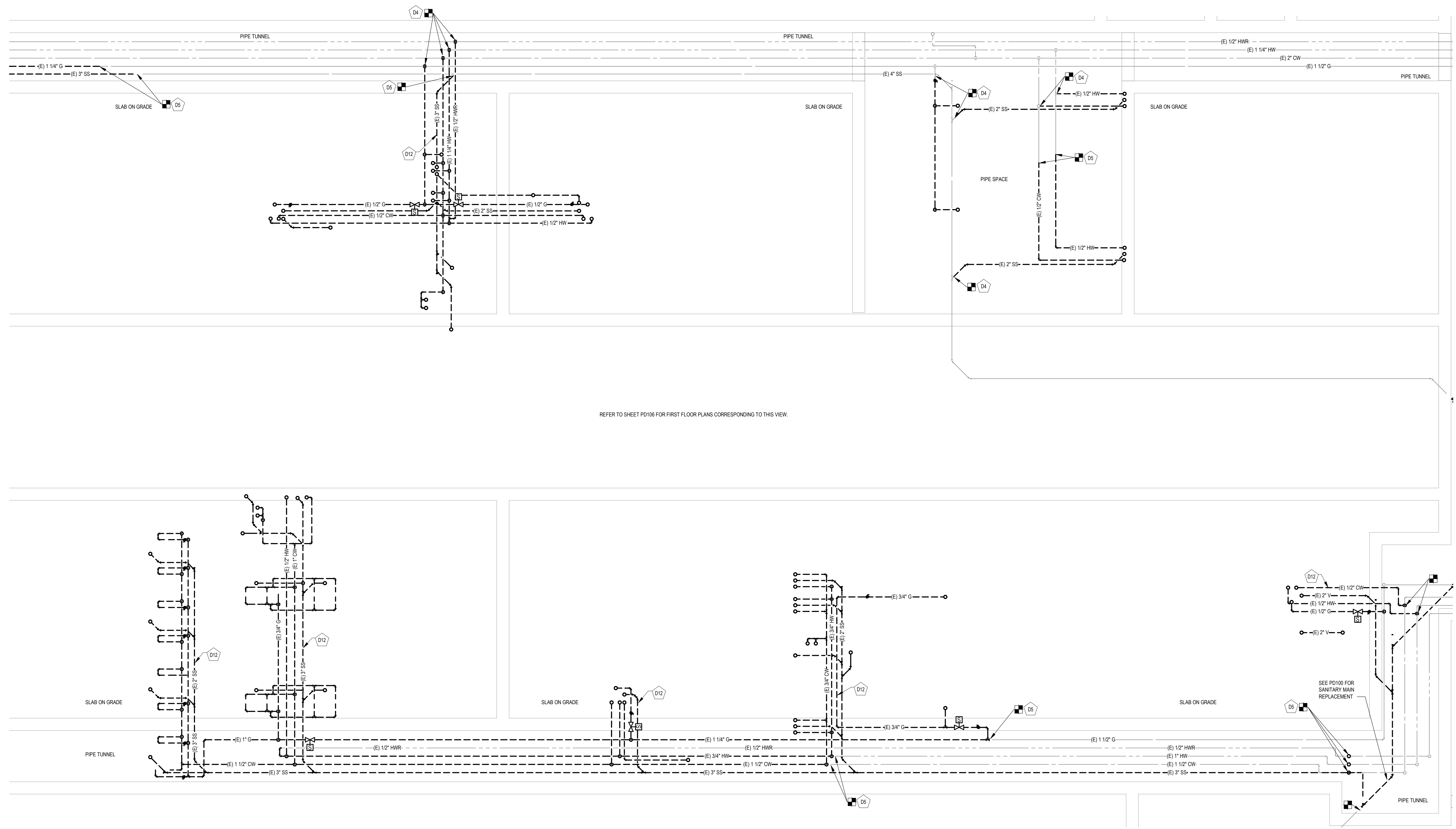
12/16/2024 6:06:16 PM

GENERAL NOTES:

- SEE DRAWING PS000 FOR GENERAL NOTES, ABBREVIATIONS, SYMBOLS AND LEGENDS

DEMOLITION KEYNOTE LEGEND

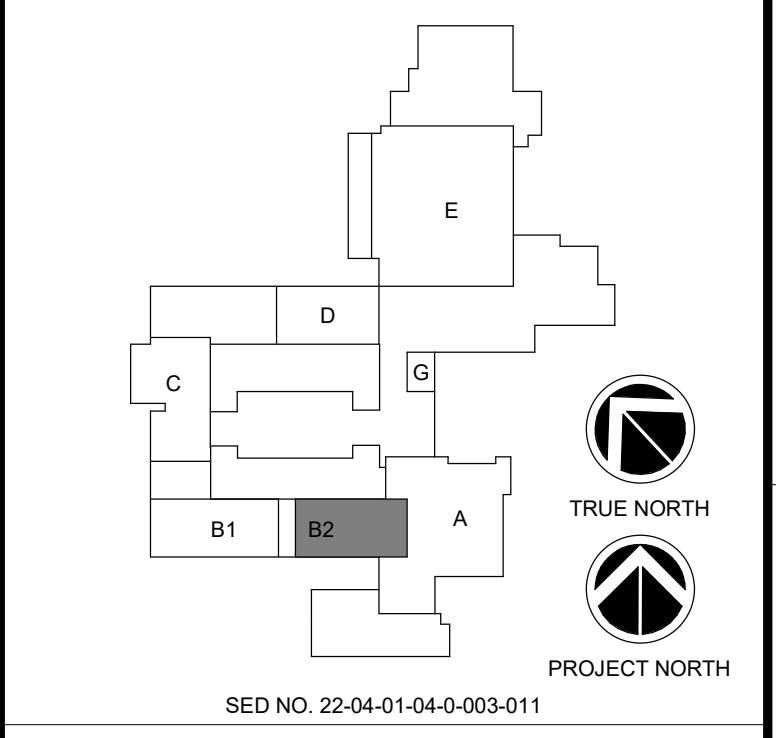
- D4 CUT AND CAP
- D5 DISCONNECT AT THIS POINT. SEE NEW WORK PLANS FOR RECONNECTION.
- D12 REMOVE SECTION OF PIPING SHOWN WITHIN PIPE TUNNEL, JUST BEYOND SLAB AND CAP EITHER END. EXISTING PIPING BELOW SLAB TO BE ABANDONED IN PLACE. ONLY REMOVE BURIED PIPING TO MAKE WAY FOR ANY NEW PIPING. SEE NEW WORK PLANS. COORDINATE WITH G.C. FOR ANY FLOOR PATCHING.



REFER TO SHEET PD106 FOR FIRST FLOOR PLANS CORRESPONDING TO THIS VIEW.

1 SCIENCE WING EAST PLUMBING
DEMOLITION PLAN - CRAWLSPACE
SCALE: 1/4" = 1'-0"

KEY PLAN:



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GENERAL BROWN CSD
HIGH SCHOOL
17643 CEMETERY RD

REV	DATE	DESCRIPTION

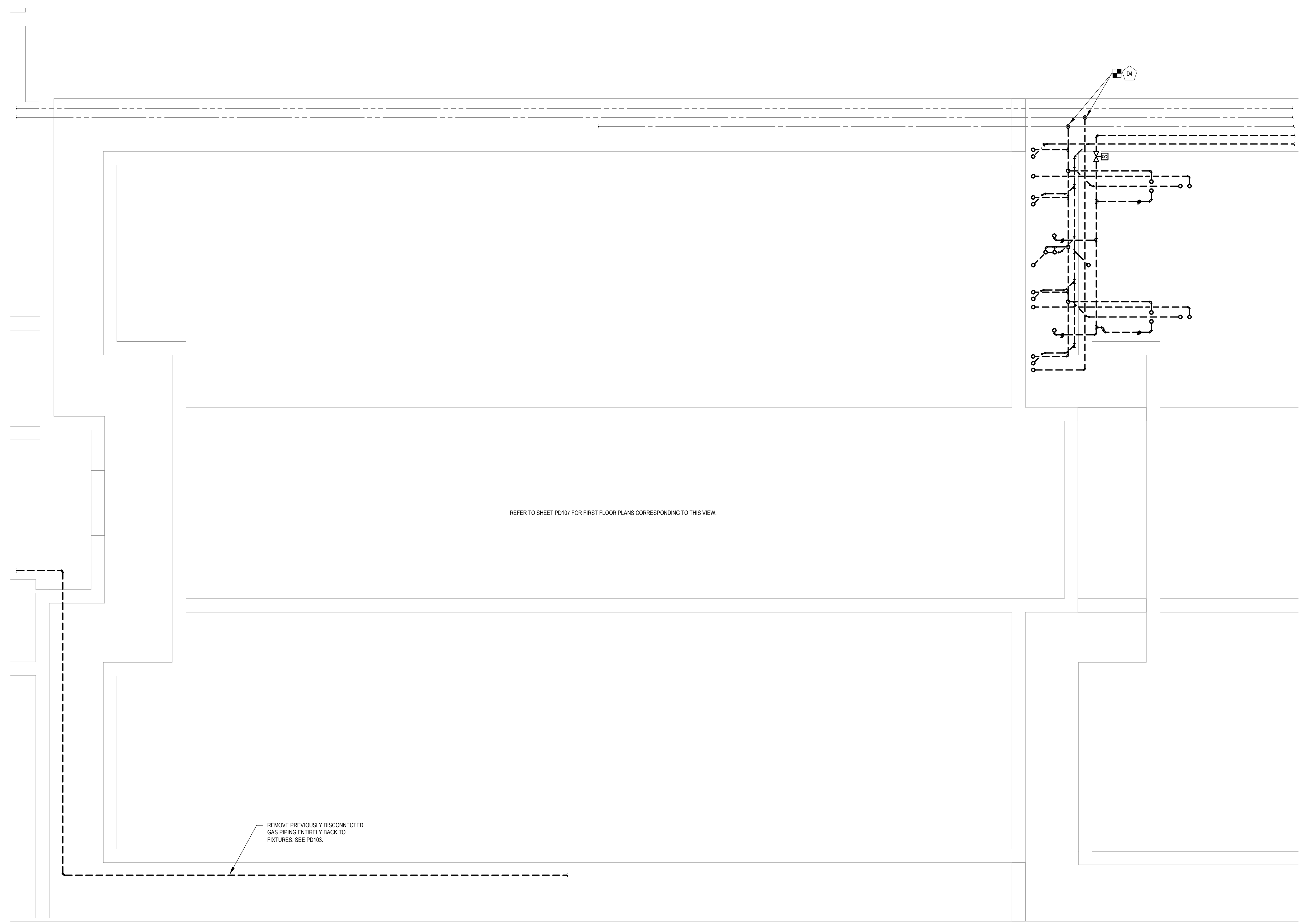
DRAWN BY TLG	PROJECT NUMBER 2023-105
CHECKED BY JLM	DATE 12/16/2024
DEMOLITION PLANS - SCIENCE ROOMS EAST - CRAWLSPACE	
BUILDING NUMBER HS	SHEET NUMBER PD108 BID

GENERAL NOTES:

- 1. SEE DRAWING PS000 FOR GENERAL NOTES, ABBREVIATIONS, SYMBOLS AND LEGENDS

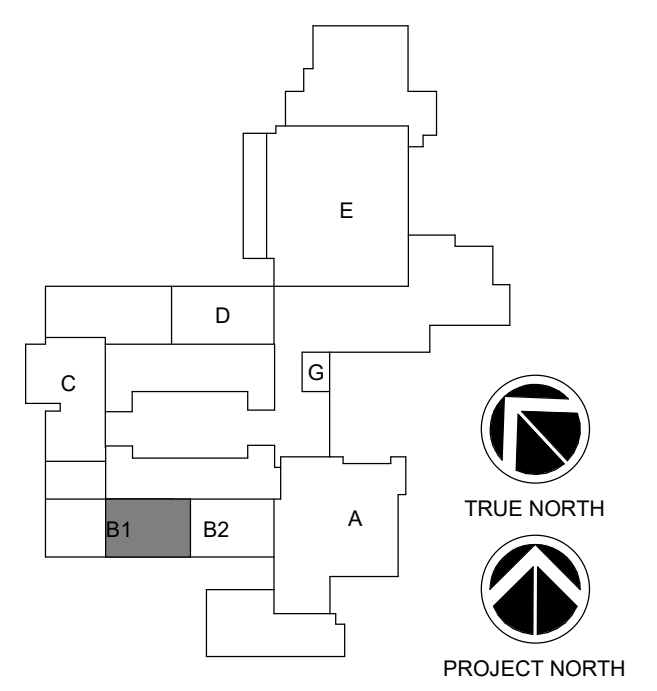
DEMOLITION KEYNOTE LEGEND

D4 CUT AND CAP.



1 SCIENCE WING WEST CRAWLSPACE
 PLUMBING DEMOLITION PLAN
 SCALE: 1/4" = 1'-0"

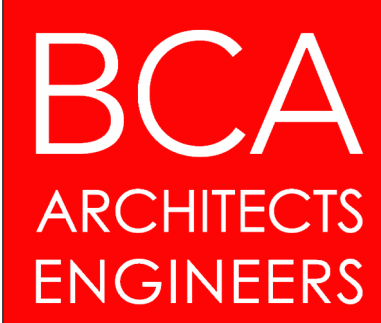
KEY PLAN:



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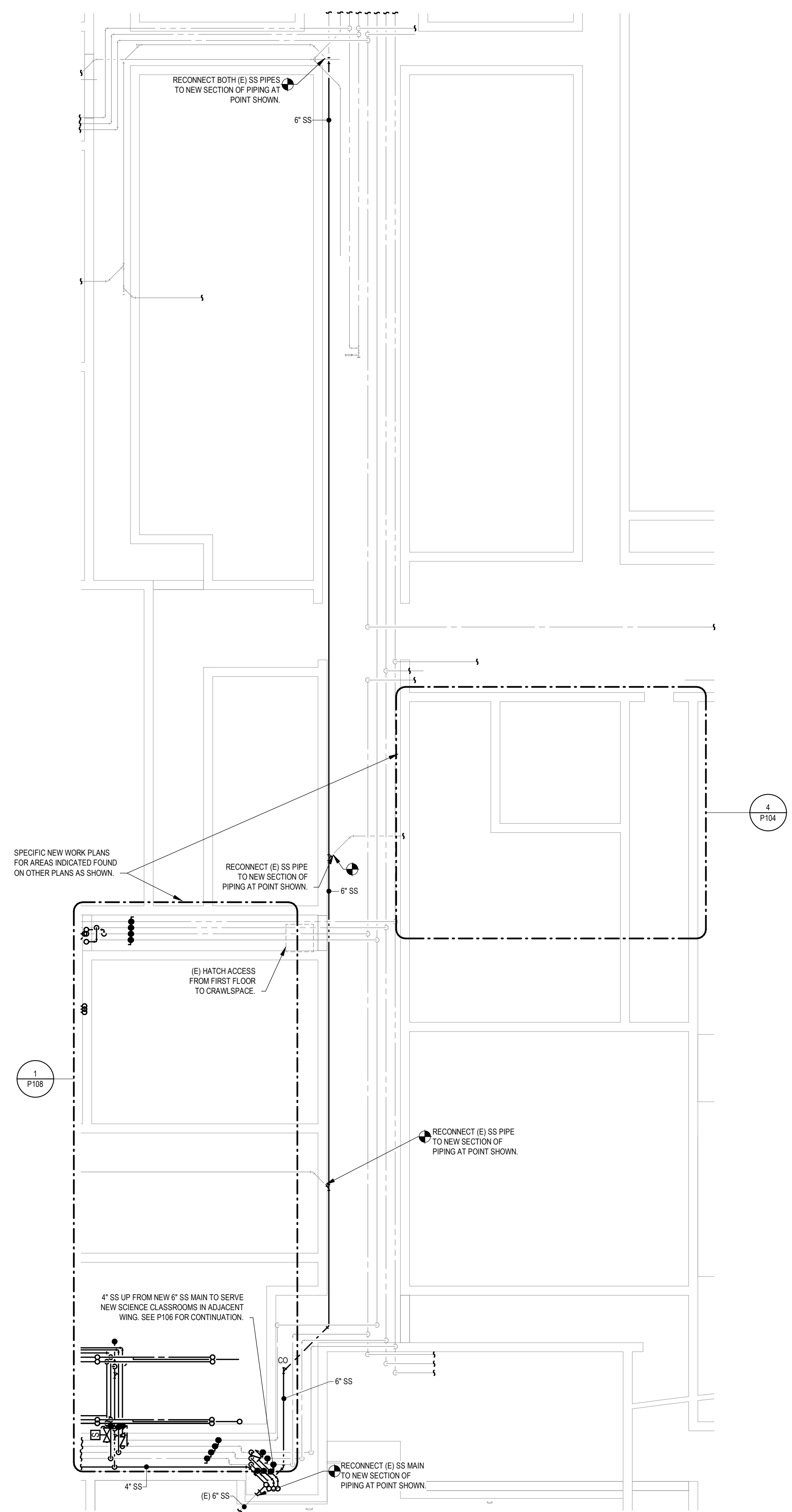


GENERAL BROWN CSD
 HIGH SCHOOL
 17643 CEMETERY RD

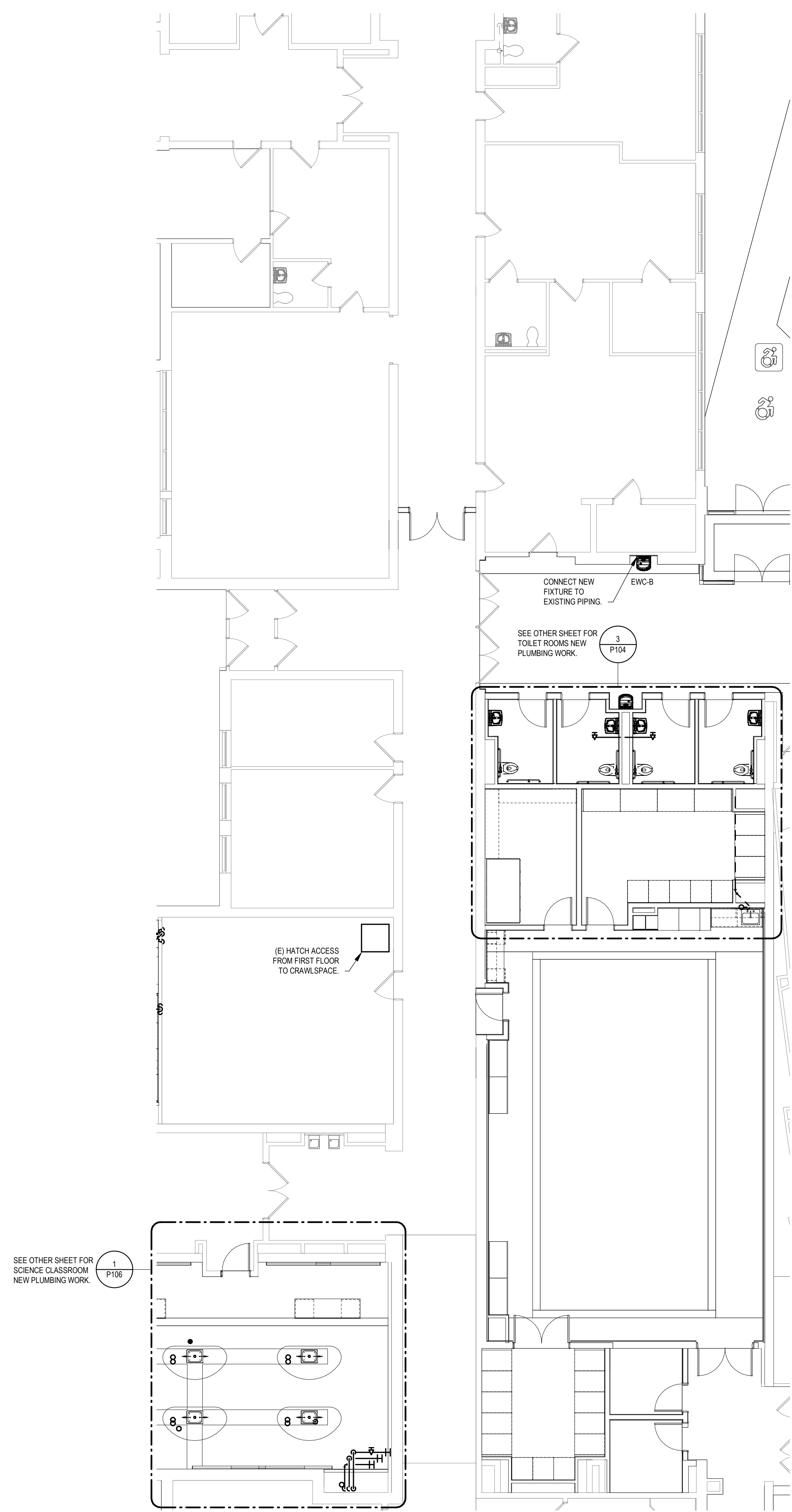
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DRAWN BY	PROJECT NUMBER	
TLG	2023-105	
CHECKED BY	DATE	
JLM	12/16/2024	
DEMOLITION PLANS - SCIENCE ROOMS WEST - CRAWLSPACE		
BUILDING NUMBER	SHEET NUMBER	
HS	PD109	
	BID	

12/16/2024 6:06:22 PM

12/16/2024 6:06:26 PM



1 SANITARY MAIN CRAWLSPACE PLUMBING REPLACEMENT PLAN
SCALE: 1/8" = 1'-0"

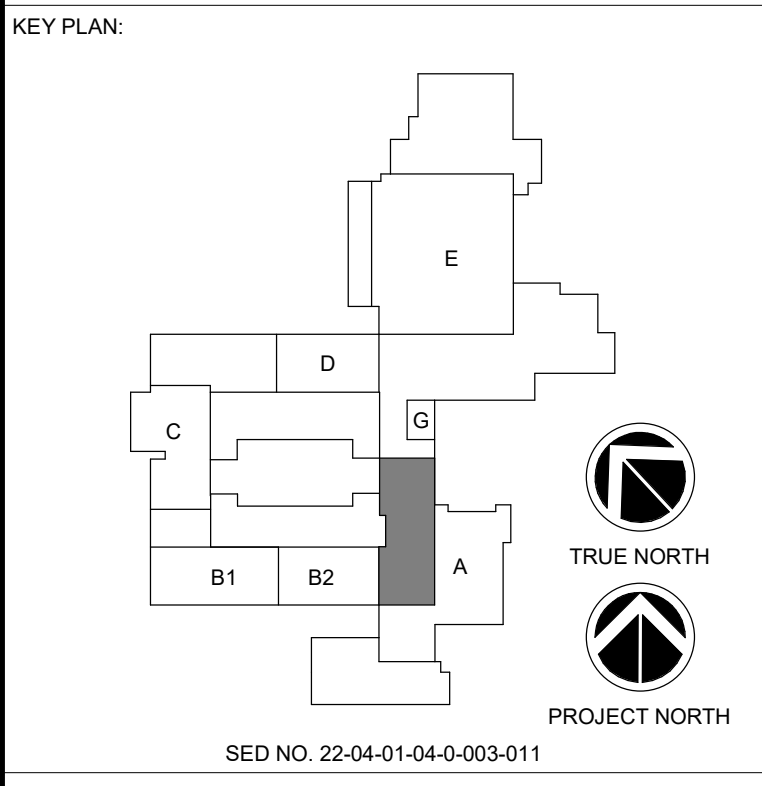


2 SANITARY MAIN REPLACEMENT FIRST FLOOR REFERENCE PLAN
SCALE: 1/8" = 1'-0"

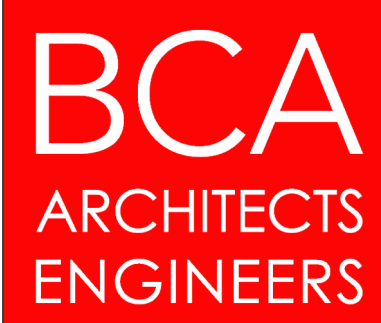
GENERAL NOTES:

- SEE DRAWING P500 FOR GENERAL NOTES, ABBREVIATIONS, SYMBOLS AND LEGENDS

KEYNOTE LEGEND



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REV	DATE	DESCRIPTION

DRAWN BY TLG	PROJECT NUMBER 2023-105
CHECKED BY JLM	DATE 12/16/2024

PLUMBING PLANS - SANITARY MAIN REPLACEMENT

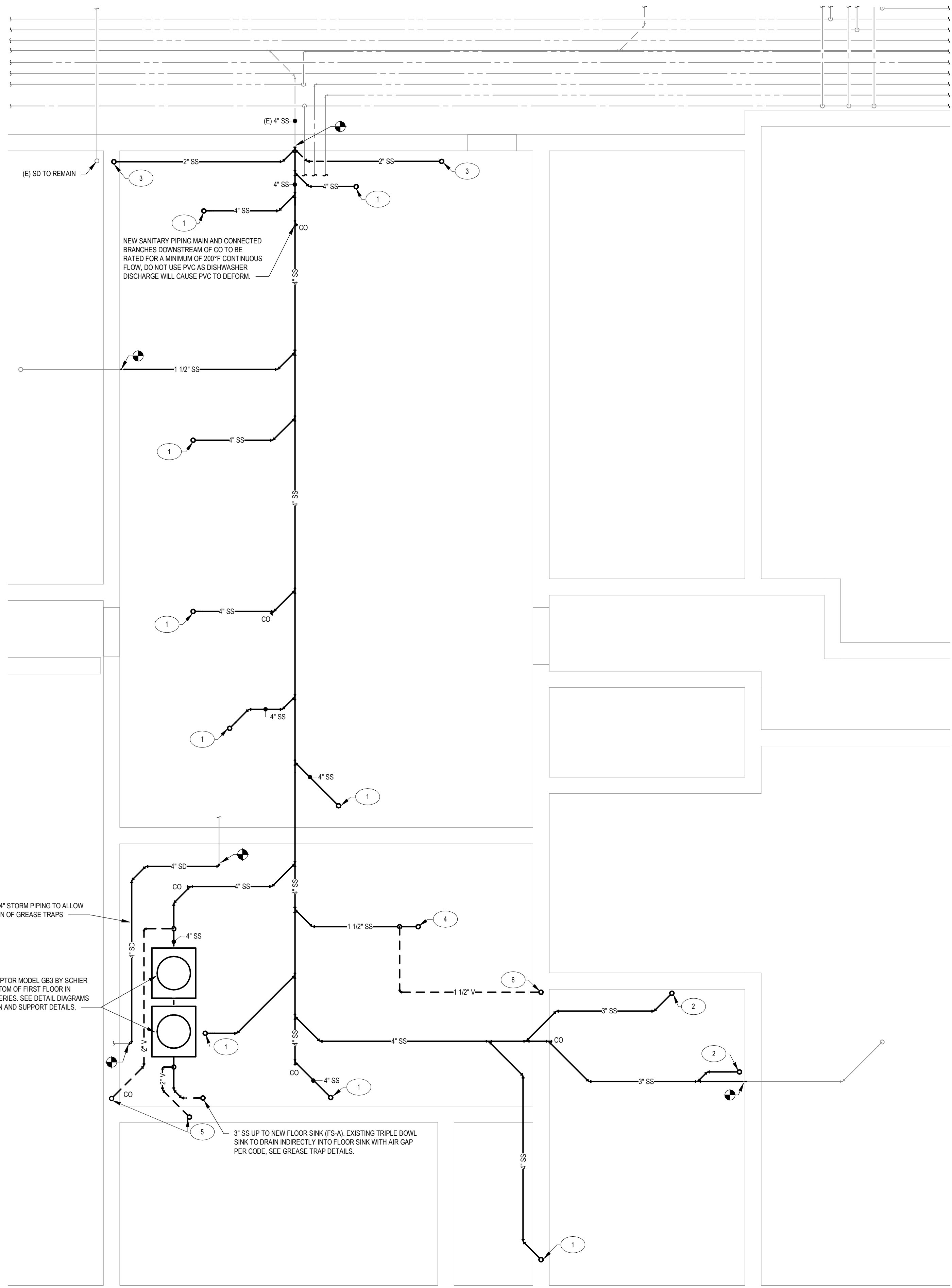
BUILDING NUMBER HS	SHEET NUMBER P100 BID
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GENERAL NOTES:

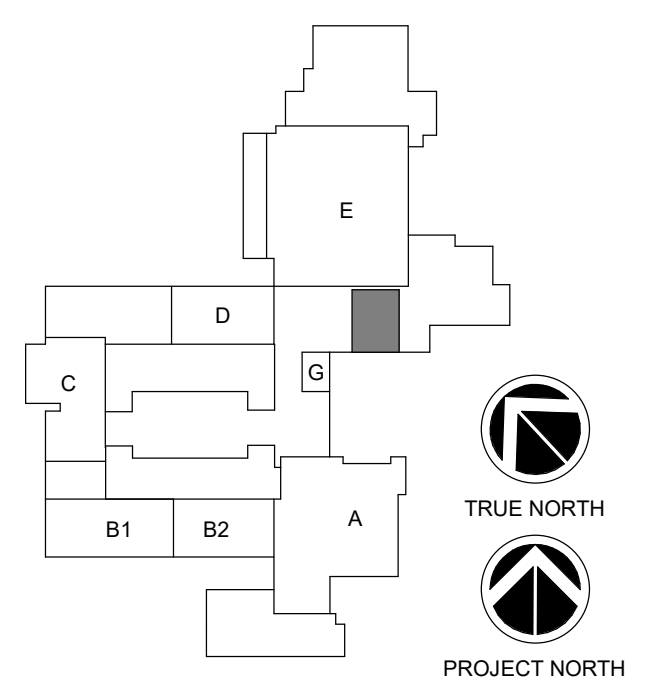
1. SEE DRAWING PS900 FOR GENERAL NOTES, ABBREVIATIONS, SYMBOLS AND LEGENDS

KEYNOTE LEGEND

- 1 4" SS UP TO RECONNECT TO (E) SS RISER TO FLOOR ABOVE.
- 2 3" SS UP TO RECONNECT TO (E) SS RISER TO FLOOR ABOVE.
- 3 2" SS UP TO RECONNECT TO (E) SS RISER TO FLOOR ABOVE.
- 4 1 1/2" SS UP TO RECONNECT TO (E) SS RISER 6" BELOW BOTTOM OF FLOOR ABOVE.
- 5 2" V UP TO RECONNECT TO (E) V RISER TO FLOOR ABOVE.
- 6 1 1/2" V UP TO RECONNECT TO (E) V RISER TO FLOOR ABOVE.



KEY PLAN:



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HIGH SCHOOL
17643 CEMETERY RD**

REV	DATE	DESCRIPTION

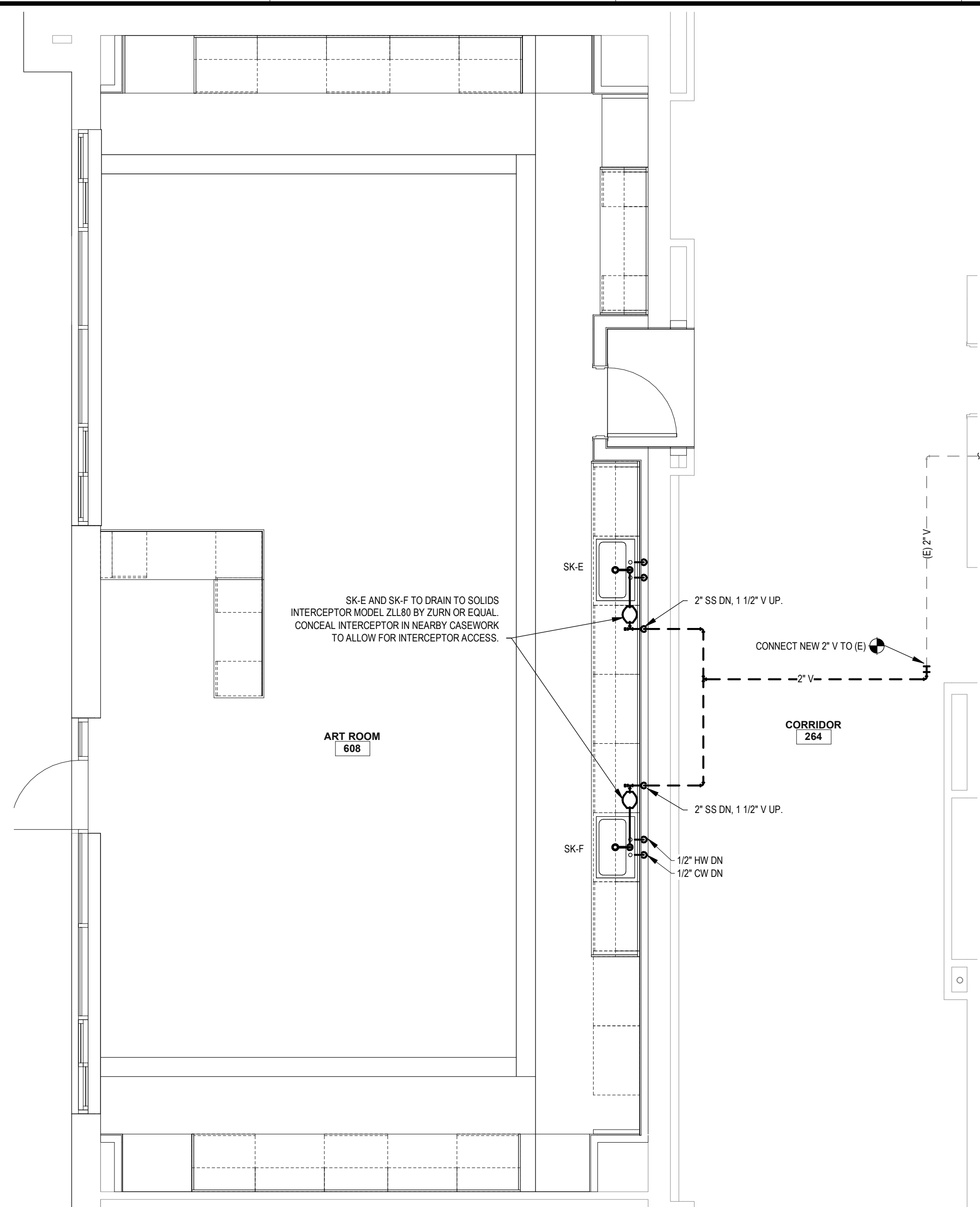
DRAWN BY TLG	PROJECT NUMBER 2023-105
CHECKED BY JLM	DATE 12/16/2024

PLUMBING PLANS - KITCHEN

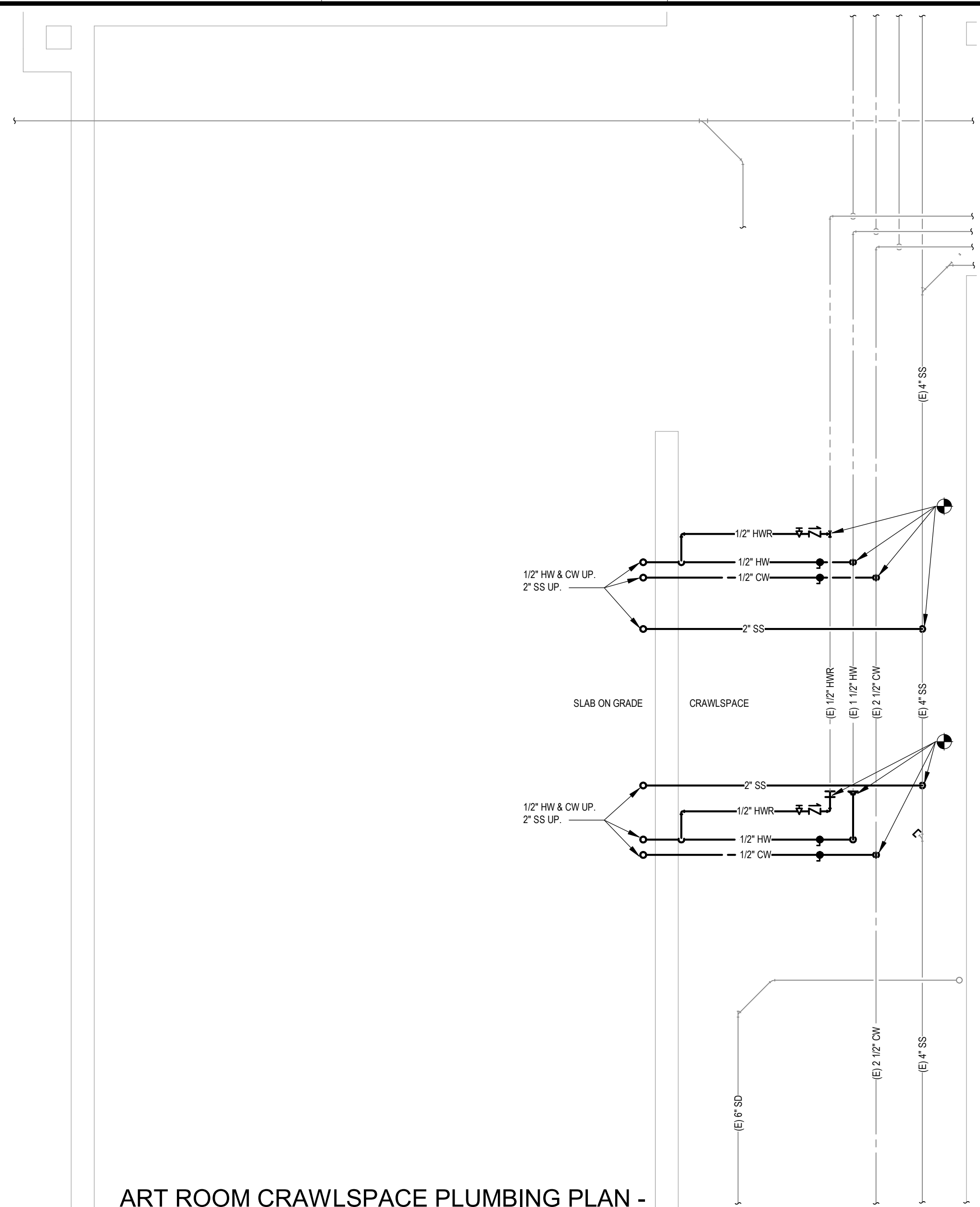
BUILDING NUMBER HS	SHEET NUMBER P102 BID
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1 KITCHEN CRAWLSPACE PLUMBING PLAN
SCALE: 1/4" = 1'-0"

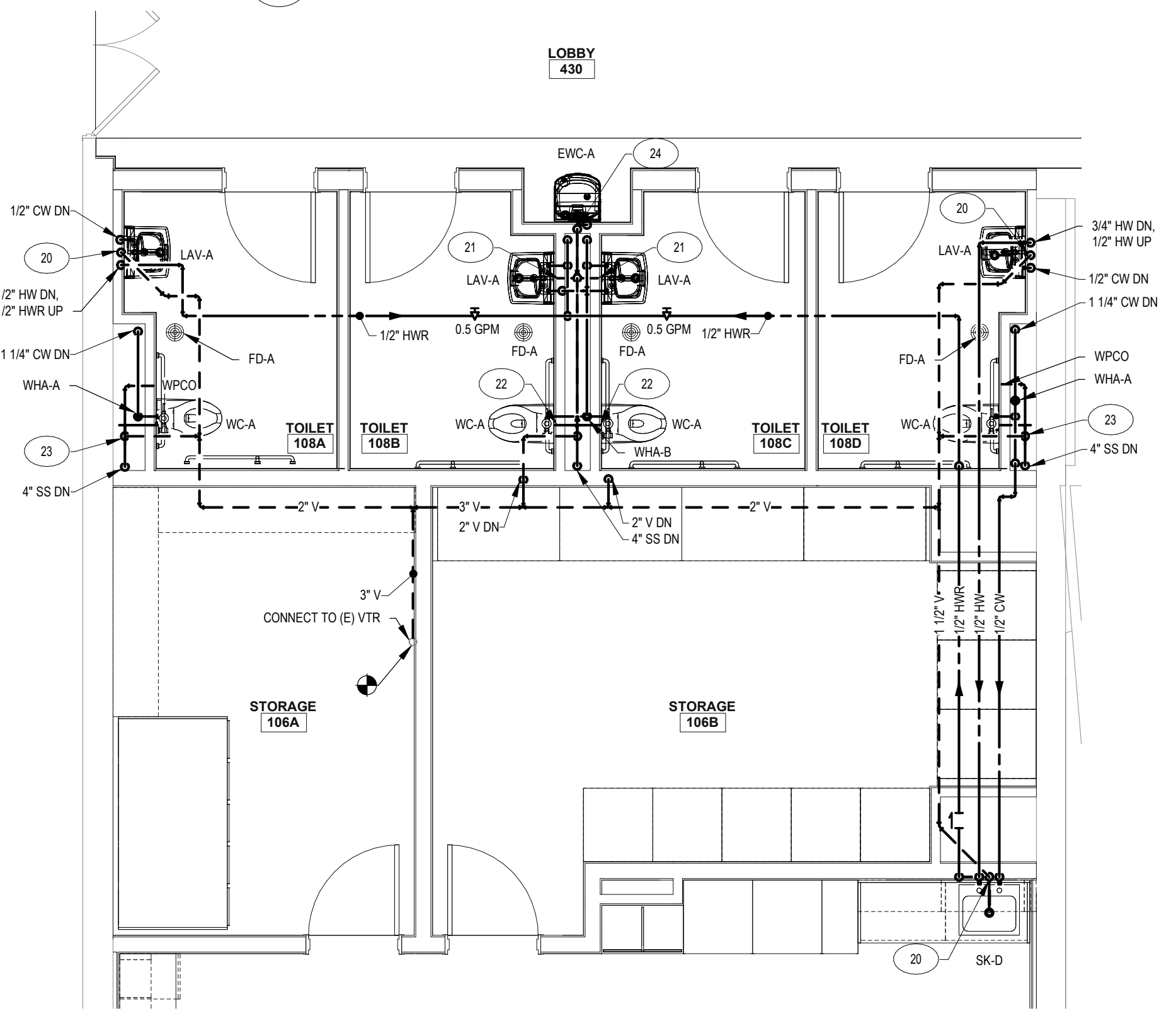
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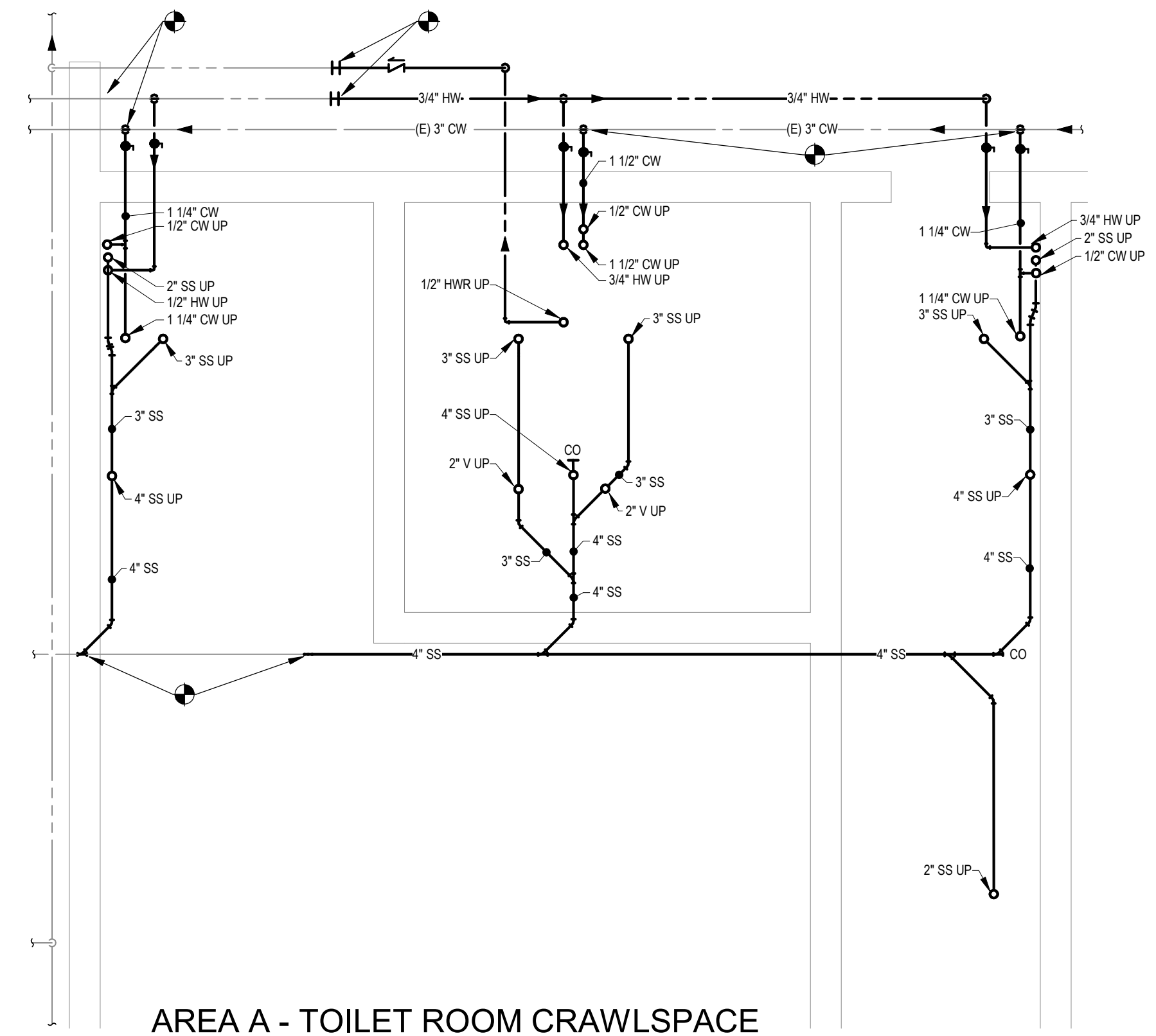
1 ART ROOM PLUMBING PLAN
SCALE: 1/4" = 1'-0"



2 ART ROOM CRAWLSPACE PLUMBING PLAN - ALTERNATE
SCALE: 1/4" = 1'-0"



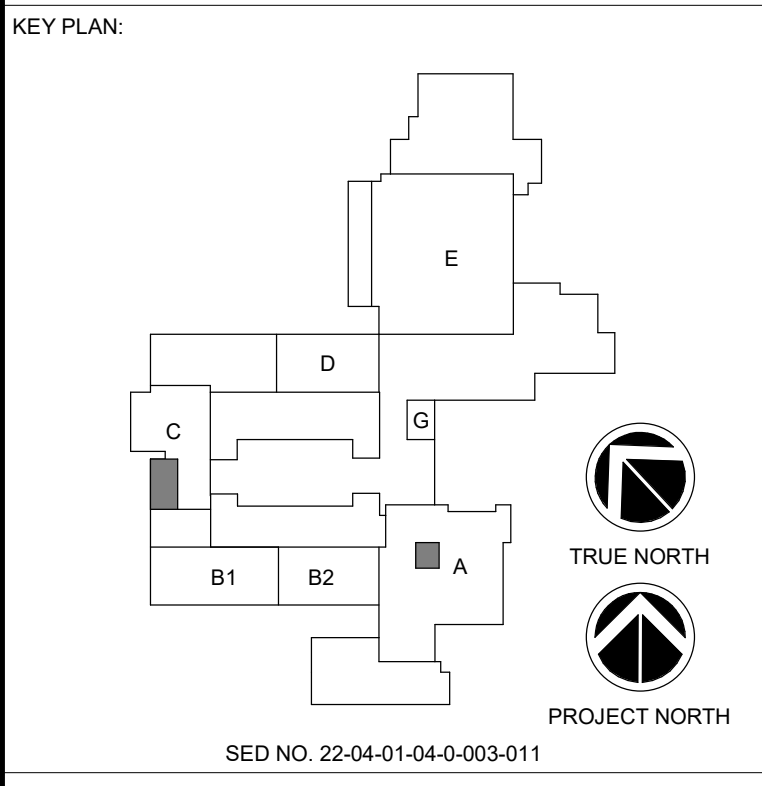
3 AREA A - TOILET ROOM PLUMBING PLANS
SCALE: 1/4" = 1'-0"



4 AREA A - TOILET ROOM CRAWLSPACE PLUMBING PLAN
SCALE: 1/4" = 1'-0"

GENERAL NOTES:

- SEE DRAWING PS000 FOR GENERAL NOTES, ABBREVIATIONS, SYMBOLS AND LEGENDS
- KEYNOTE LEGEND**
- 2" SANITARY PIPE DOWN TO BELOW FLOOR AND 1-1/2" VENT UP. RISER(S) TO BE LOCATED BEHIND FINISHED WALL. CONNECT VENT RISER INTO VENT BRANCH ABOVE. 1/2" CW AND HW FROM RESPECTIVE BRANCHES TO FIXTURE.
- 2" SANITARY PIPE DOWN TO SS BRANCH IN CHASE AND 1-1/2" VENT UP. RISER(S) TO BE LOCATED BEHIND FINISHED WALL. CONNECT VENT RISER INTO VENT BRANCH ABOVE. 1/2" CW AND HW FROM RESPECTIVE BRANCHES TO FIXTURE.
- 4" SS TO DUAL FIXTURE CARRIER FROM BRANCH. 2" VENT UP FROM FIXTURE CARRIER TO VENT BRANCH. 1-1/2" CW FROM BRANCH. TEE 1" CW TO SUPPLY BOTH FIXTURES.
- 4" SS TO FIXTURE CARRIER FROM BRANCH. 2" VENT UP FROM FIXTURE CARRIER TO VENT BRANCH. 1" CW FROM RESPECTIVE BRANCH TO FIXTURE.
- 2" SANITARY PIPE DOWN TO SS BRANCH IN CHASE AND 1-1/2" VENT UP. RISER(S) TO BE LOCATED BEHIND FINISHED WALL. CONNECT VENT RISER INTO VENT BRANCH ABOVE. 1/2" CW FROM RESPECTIVE BRANCH TO FIXTURE.



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REV	DATE	DESCRIPTION

DRAWN BY TLG	PROJECT NUMBER 2023-105
CHECKED BY JLM	DATE 12/16/2024
PLUMBING PLANS - MAIN ENTRANCE TR'S AND ART ROOM	
BUILDING NUMBER HS	SHEET NUMBER P104 BID

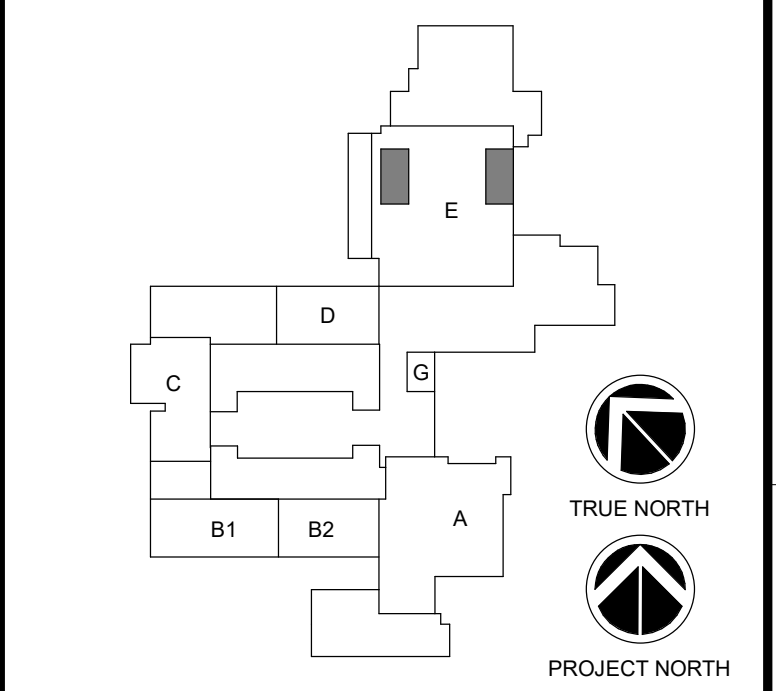
GENERAL NOTES:

- SEE DRAWING PS000 FOR GENERAL NOTES, ABBREVIATIONS, SYMBOLS AND LEGENDS

KEYNOTE LEGEND

- 2" SANITARY PIPE DOWN TO BELOW FLOOR AND 1-1/2" VENT UP. RISER(S) (DROPS) TO BE LOCATED BEHIND FINISHED WALL. CONNECT VENT RISER INTO VENT BRANCH ABOVE. 1/2" CW AND HW FROM RESPECTIVE BRANCHES TO FIXTURE.
- 2" SANITARY PIPE DOWN TO SS BRANCH IN CHASE AND 1-1/2" VENT UP. RISER(S) TO BE LOCATED BEHIND FINISHED WALL. CONNECT VENT RISER INTO VENT BRANCH ABOVE. 1/2" CW AND HW FROM RESPECTIVE BRANCHES TO FIXTURE.
- 4" SS TO FIXTURE CARRIER FROM BRANCH. 2" VENT UP FROM FIXTURE CARRIER TO VENT BRANCH. 1" CW FROM RESPECTIVE BRANCH TO FIXTURE.
- 2" SANITARY SERVING LDA AND SHA. 1/2" HW AND CW TO SHA MIXING VALVE. 1/2" HWR DOWN FROM AS CLOSE TO MIXING VALVE AS POSSIBLE. SEE DETAIL SHEET AND RISER DIAGRAMS.
- 2" SANITARY PIPE DOWN TO SS BRANCH IN CHASE AND 1-1/2" VENT UP. CONNECT VENT RISER INTO VENT BRANCH ABOVE. 3/4" CW AND HW FROM RESPECTIVE BRANCHES TO FIXTURE.

KEY PLAN:



SED NO. 22-04-01-04-0-003-011

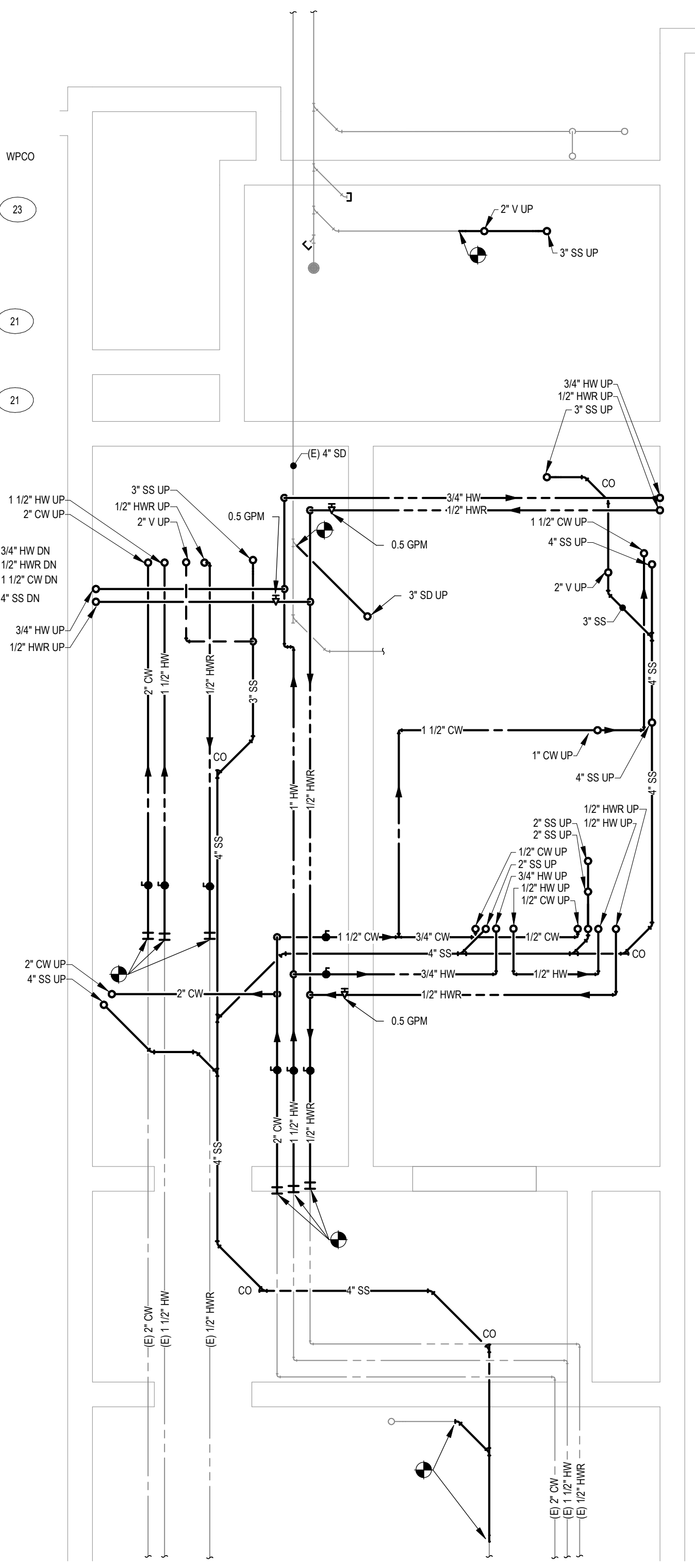
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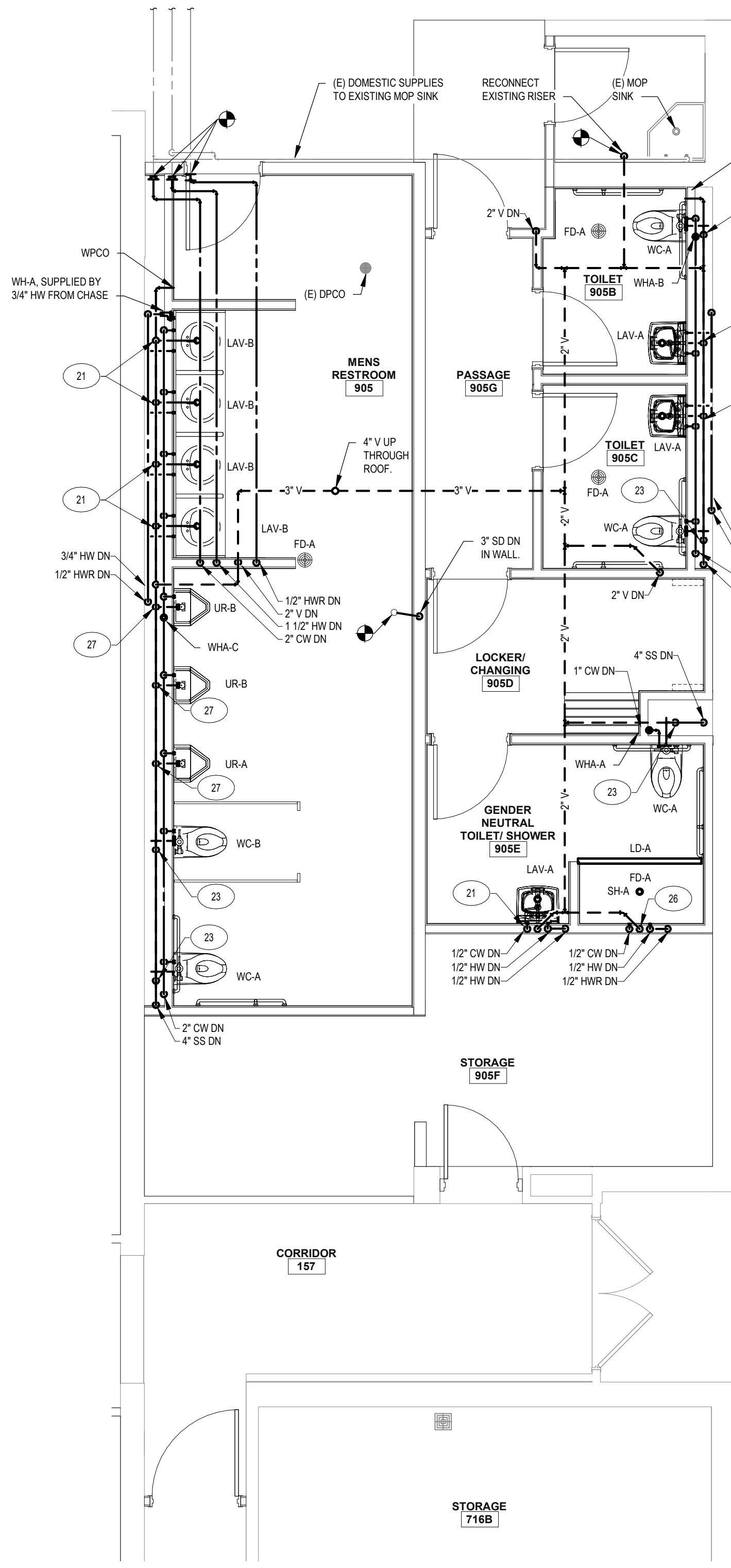


GENERAL BROWN CSD
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 17643 CEMETERY RD

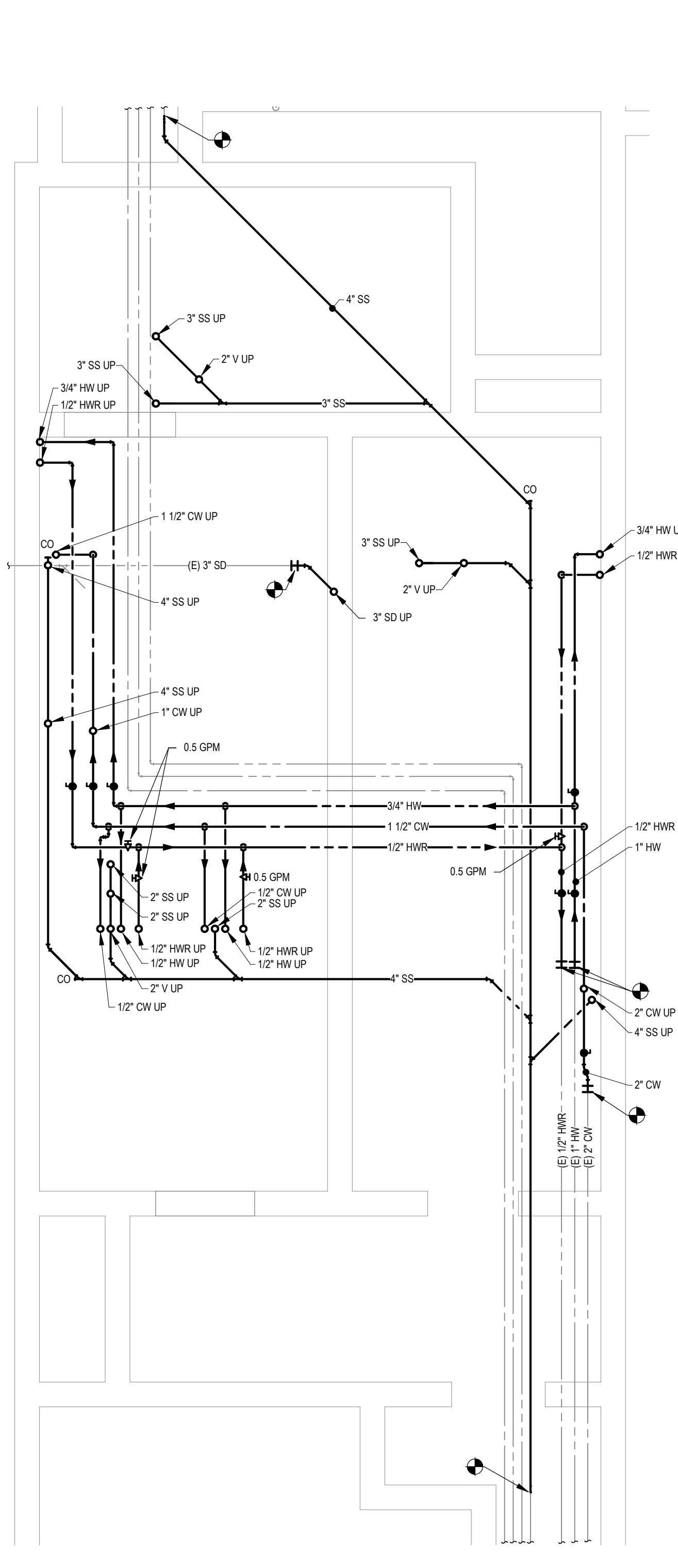
REV	DATE	DESCRIPTION
DRAWN BY	TLG	PROJECT NUMBER 2023-105
CHECKED BY	JLM	DATE 12/16/2024
PLUMBING PLANS - GYM TOILET ROOMS		
BUILDING NUMBER	HS	SHEET NUMBER P105 BID



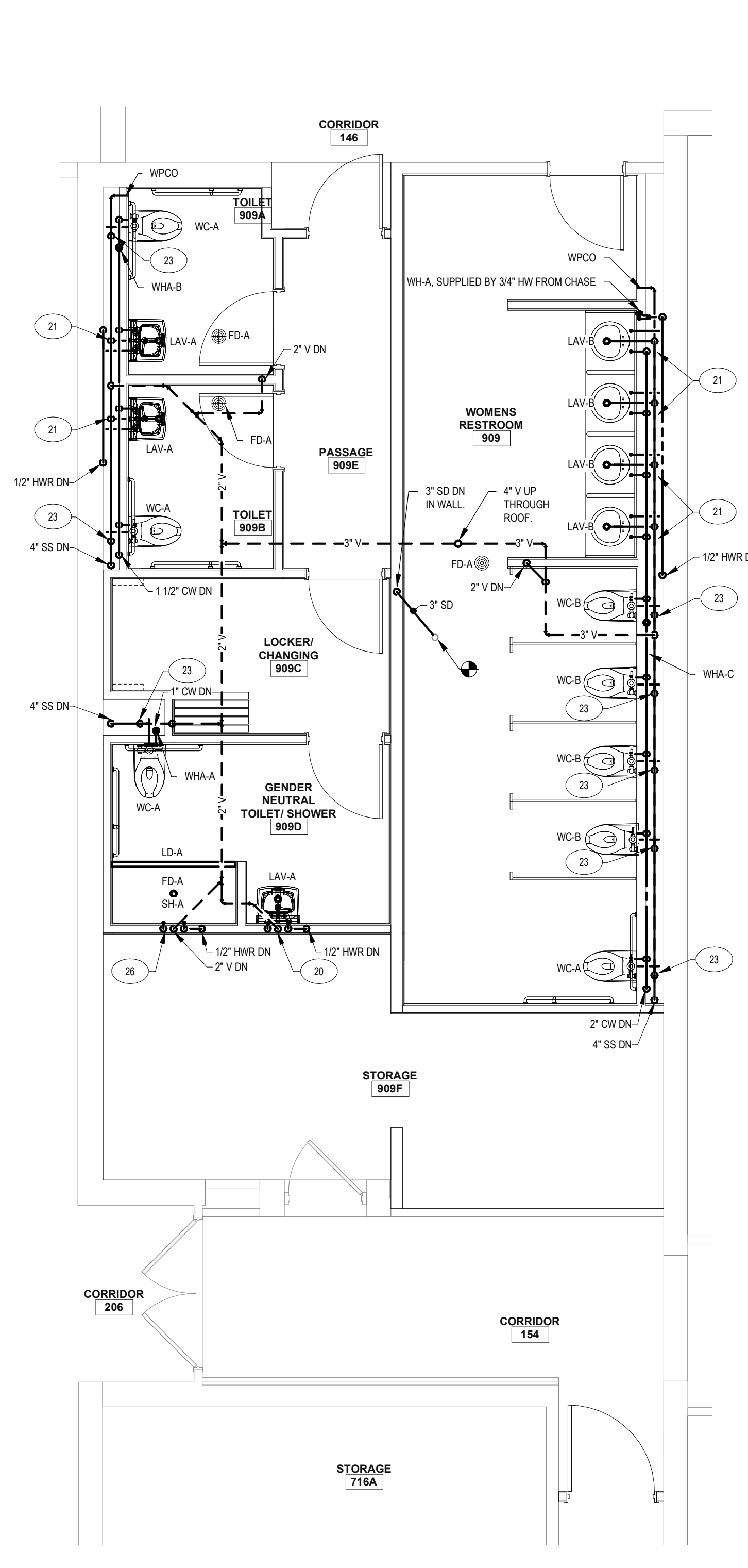
4 MENS RESTROOMS CRAWLSPACE PLUMBING PLAN
 SCALE: 1/4" = 1'-0"



3 MENS RESTROOMS PLUMBING PLAN
 SCALE: 1/4" = 1'-0"



2 WOMENS RESTROOMS CRAWLSPACE PLUMBING PLAN
 SCALE: 1/4" = 1'-0"



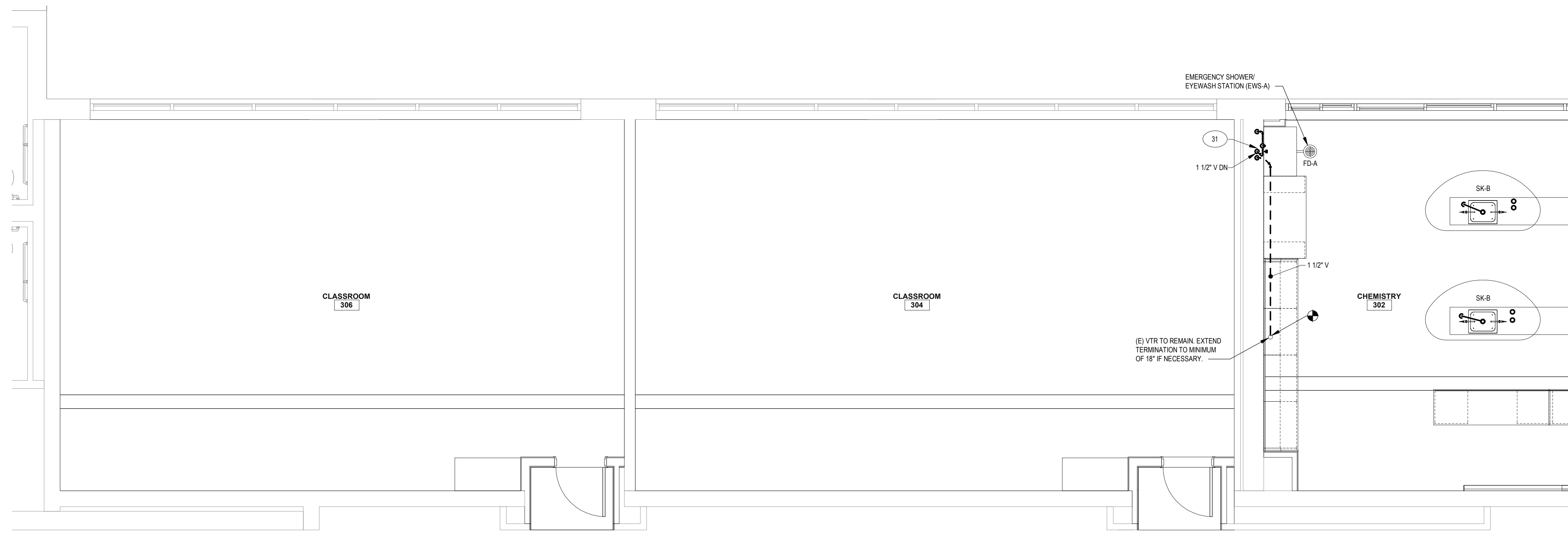
1 WOMENS RESTROOMS PLUMBING PLAN
 SCALE: 1/4" = 1'-0"

GENERAL NOTES:

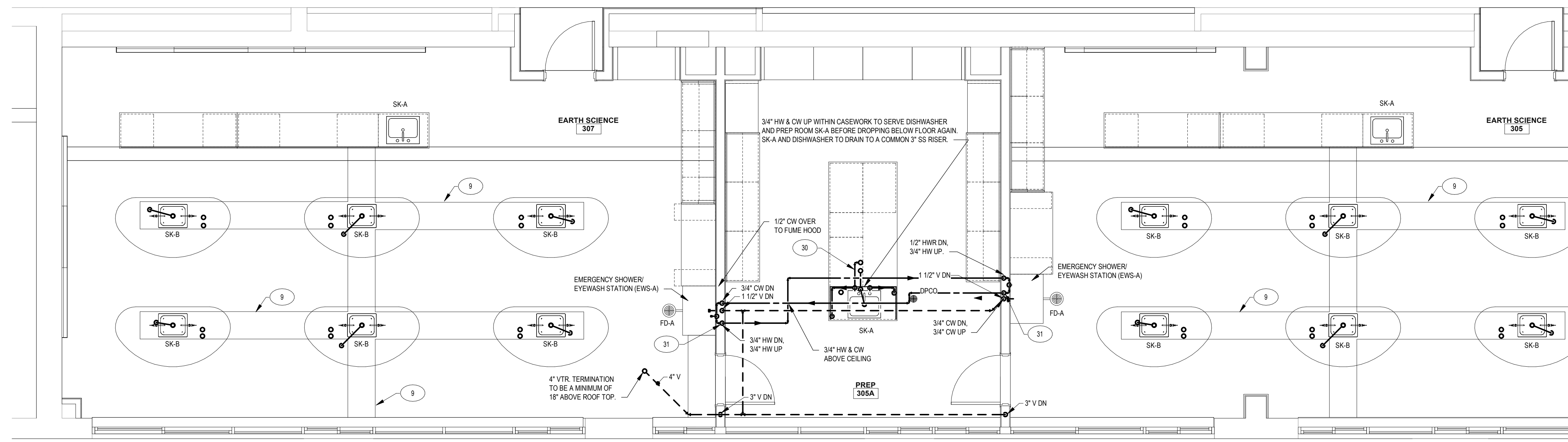
- SEE DRAWING PS000 FOR GENERAL NOTES, ABBREVIATIONS, SYMBOLS AND LEGENDS

KEYNOTE LEGEND

- APPROXIMATE LOCATION OF PIPE TRENCH REMOVABLE ACCESS COVER (TRENCH LINERS AND COVERS BY OTHERS; COORDINATES ANY CW, HW, HWR, & Q TO BE LOCATED WITHIN PIPE TRENCH AND CASEWORK; SEE ASSOCIATED CRAWLSPACE PLUMBING PLANS FOR COORDINATING PIPE LAYOUT AND SIZES IN THIS AREA.
- 3" SS, 1/2" CW, 1/2" HW, AND 1/2" G TO SERVE SK-A AND DISHWASHER IN PREP ROOM. SEE PREP ROOM SINK AND DISHWASHER CONNECTION DETAIL ON PLUMBING DETAIL DIAGRAM SHEET.
- 1 1/2" SS, 3/4" CW, AND 3/4" HW TO EMERGENCY SHOWER/EYEWASH STATION (FITTURE PROVIDED BY OTHERS; PLUMBING CONNECTIONS BY P.C.). SEE SPEC FOR ACCESSORIES TO BE PROVIDED BY P.C. IN SCIENCE CLASSROOM. 1 1/2" V UP FROM SS. SEE EMERGENCY EYEWASH PIPING DETAIL ON PLUMBING DETAIL DIAGRAM SHEET.

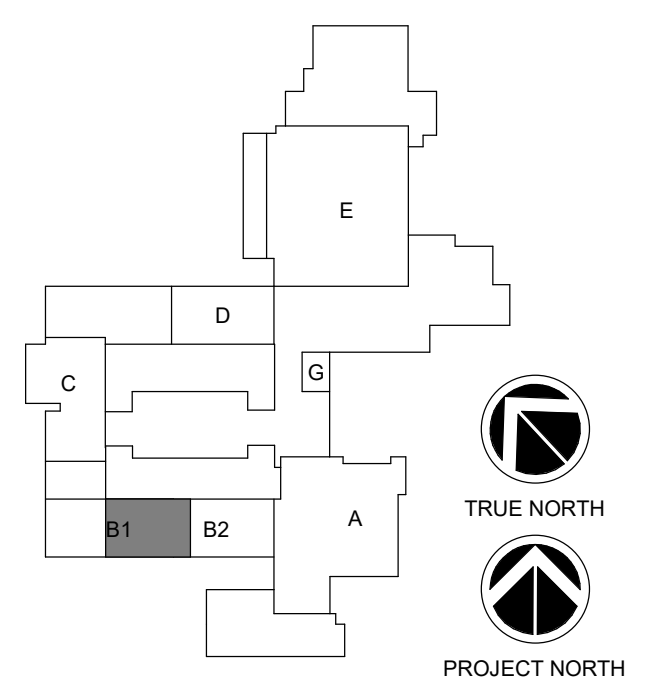


(E) RD ABOVE TO REMAIN
REFER TO SHEET P109 FOR CRAWLSPACE PLANS CORRESPONDING TO THIS VIEW.



1 WEST SCIENCE ROOMS PLUMBING PLAN
SCALE: 1/4" = 1'-0"

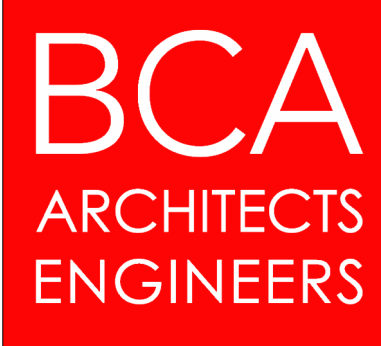
KEY PLAN:



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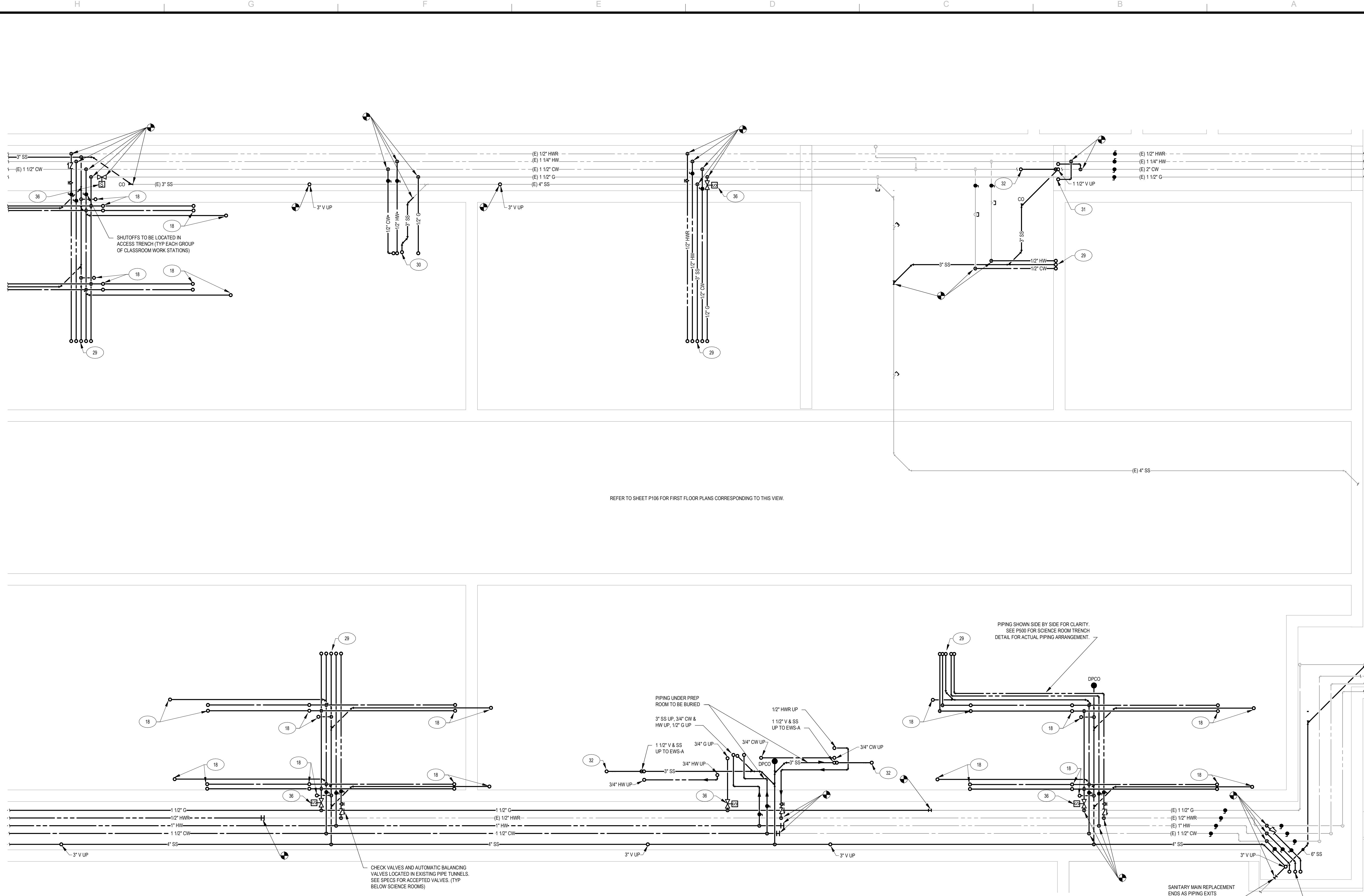
REV	DATE	DESCRIPTION

DRAWN BY TLG	PROJECT NUMBER 2023-105
CHECKED BY JLM	DATE 12/16/2024

PLUMBING PLANS - SCIENCE ROOMS WEST

BUILDING NUMBER HS	SHEET NUMBER P107 BID
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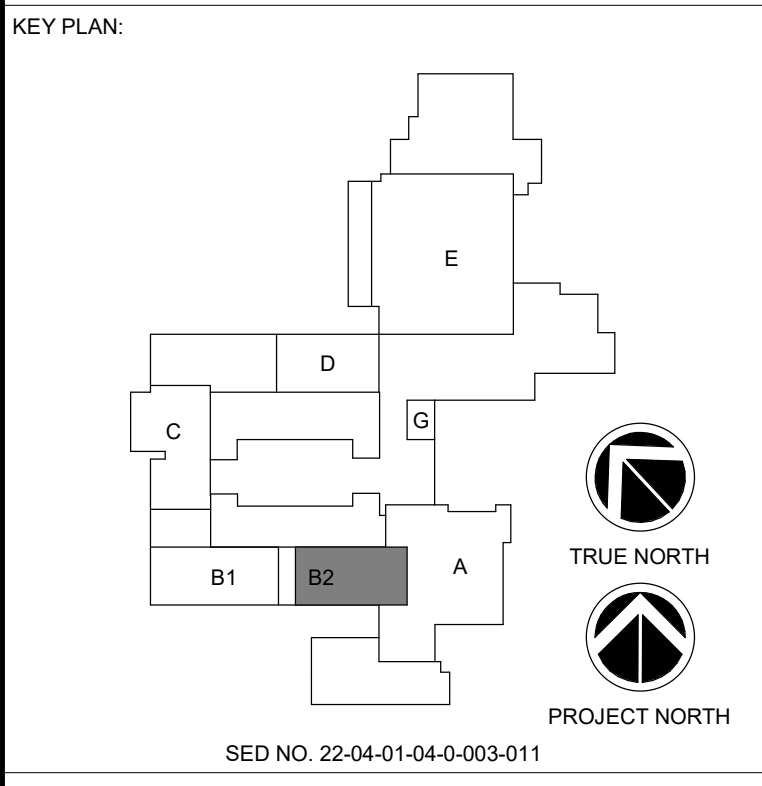


REFER TO SHEET P106 FOR FIRST FLOOR PLANS CORRESPONDING TO THIS VIEW.

1 SCIENCE ROOM CRAWLSPACE PLUMBING
SCALE: 1/4" = 1'-0"

GENERAL NOTES:

1. SEE DRAWING P5000 FOR GENERAL NOTES, ABBREVIATIONS, SYMBOLS AND LEGENDS
- KEYNOTE LEGEND**
- 18 1/2" CW, 1/2" G, AND 2" SS UP TO SK-B. SUPPLIES IN ACCESS TRENCH. SEE SCIENCE ROOM TRENCH DETAIL.
 - 29 3" SS, 1/2" CW, 1/2" HW, 1/2" HWR, AND 1/2" G UP TO SK-A IN SCIENCE CLASSROOM ABOVE. SEE PLUMBING DETAIL DIAGRAM SHEET.
 - 30 3" SS, 1/2" CW, 1/2" HW, AND 1/2" G TO SERVE SK-A AND DISHWASHER IN PREP ROOM. SEE PREP ROOM SINK AND DISHWASHER CONNECTION DETAIL ON PLUMBING DETAIL DIAGRAM SHEET.
 - 31 1 1/2" SS, 3/4" CW, AND 3/4" HW TO EMERGENCY SHOWER/EYEWASH STATION (PICTURE PROVIDED BY OTHERS. PLUMBING CONNECTIONS BY P.C.). SEE SPEC FOR ACCESSORIES TO BE PROVIDED BY P.C. IN SCIENCE CLASSROOM. 1 1/2" V UP FROM SS. SEE EMERGENCY EYEWASH PIPING DETAIL ON PLUMBING DETAIL DIAGRAM SHEET.
 - 32 3" SS UP TO FD-A. THIS FLOOR DRAIN TO BE LOCATED BELOW EMERGENCY SHOWER HEAD. SEE EMERGENCY EYEWASH PIPING DETAIL ON PLUMBING DETAIL DIAGRAM SHEET.
 - 36 GAS SOLENOID VALVE. REFER TO GAS EMERGENCY SHUT OFF DETAIL ON P503.



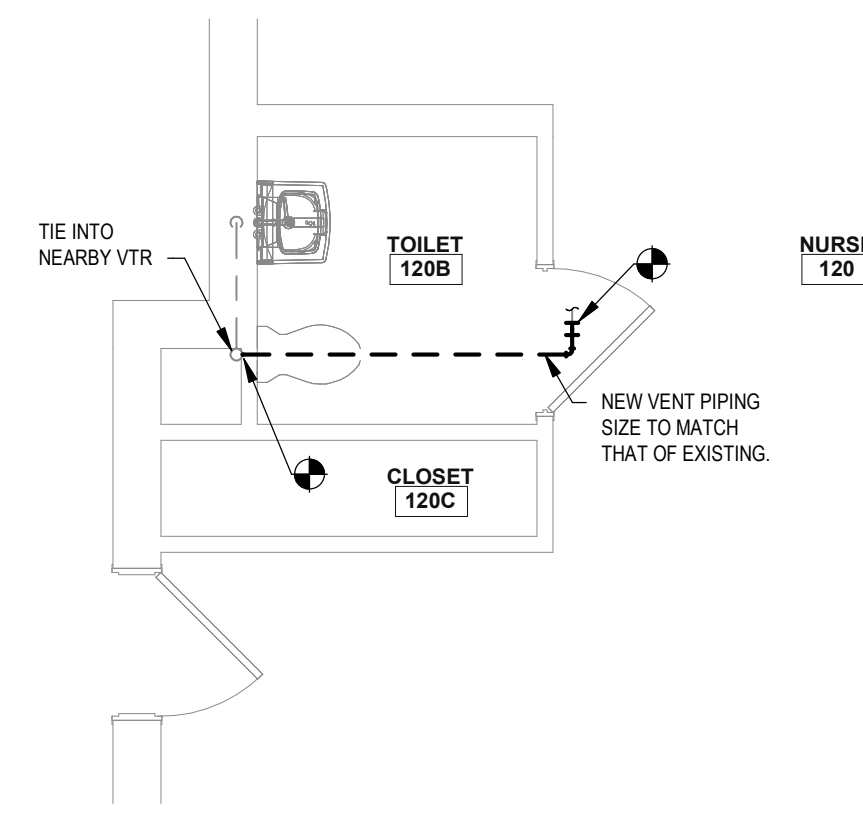
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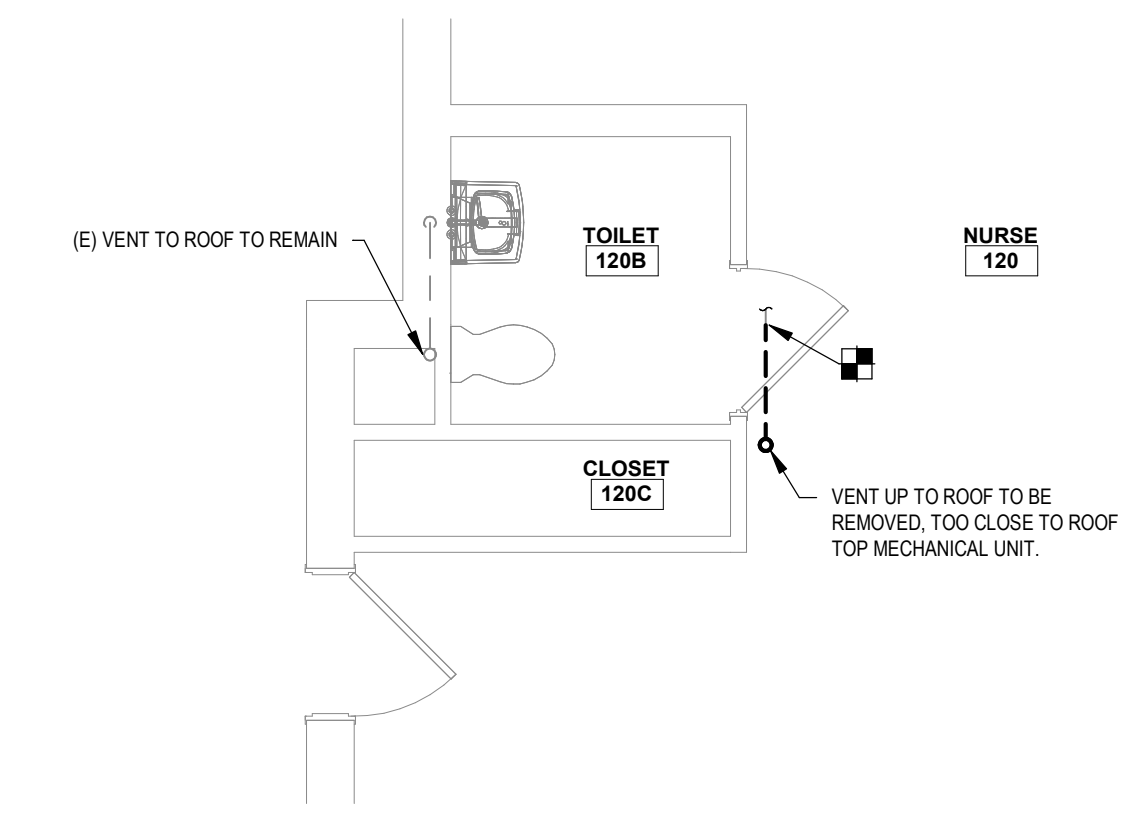
GENERAL BROWN CSD
HIGH SCHOOL
17643 CEMETERY RD

REV	DATE	DESCRIPTION

DRAWN BY TLG	PROJECT NUMBER 2023-105
CHECKED BY JLM	DATE 12/16/2024
PLUMBING PLANS - SCIENCE ROOMS EAST - CRAWLSPACE	
BUILDING NUMBER HS	SHEET NUMBER P108 BID



2 FIRST FLOOR PLUMBING PLAN
SCALE: 1/4" = 1'-0"



1 FIRST FLOOR PLUMBING DEMOLITION PLAN
SCALE: 1/4" = 1'-0"

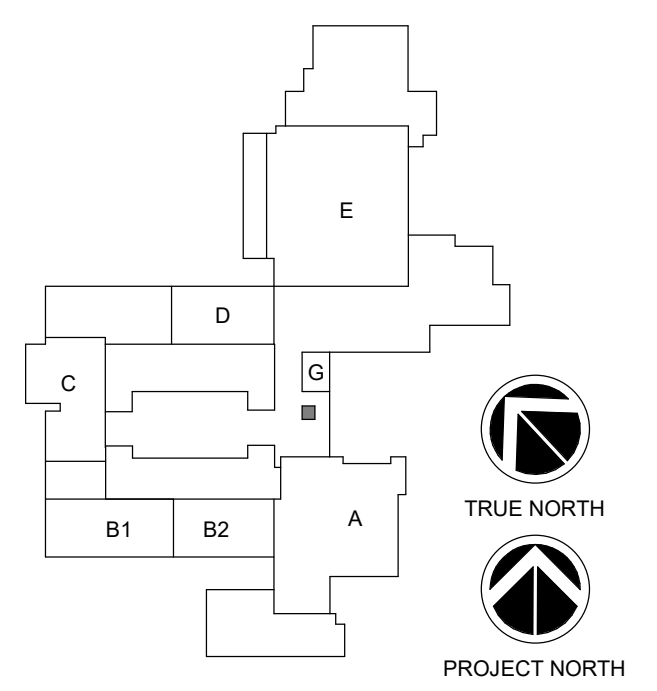


3 PICTURE OF ROOFTOP ABOVE
SCALE: 1/4" = 1'-0"

GENERAL NOTES:
1. SEE DRAWING PS900 FOR GENERAL NOTES, ABBREVIATIONS, SYMBOLS AND LEGENDS

KEYNOTE LEGEND

KEY PLAN:



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17643 CEMETERY RD

REV	DATE	DESCRIPTION

DRAWN BY TLG	PROJECT NUMBER 2023-105
CHECKED BY JLM	DATE 12/16/2024

PLUMBING PLANS - NURSE VENT TO ROOF

BUILDING NUMBER HS	SHEET NUMBER P110 BID
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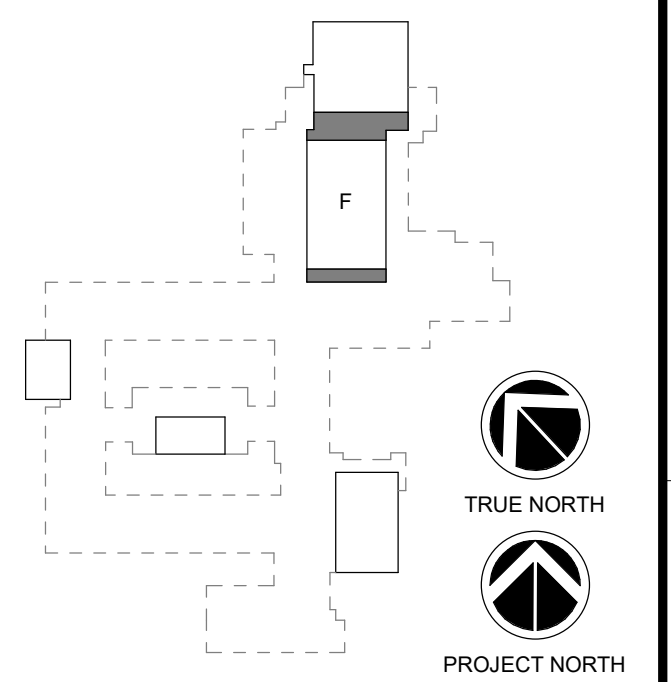
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GENERAL NOTES:

- SEE DRAWING PS000 FOR GENERAL NOTES, ABBREVIATIONS, SYMBOLS AND LEGENDS

KEYNOTE LEGEND

KEY PLAN:



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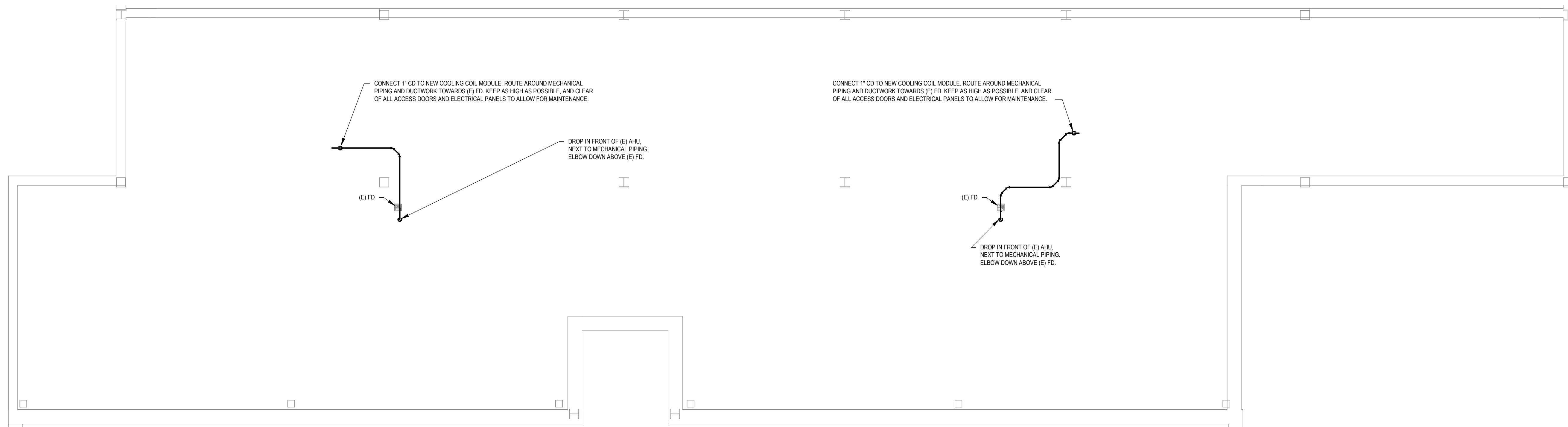
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 HIGH SCHOOL
 17643 CEMETERY RD

REV	DATE	DESCRIPTION

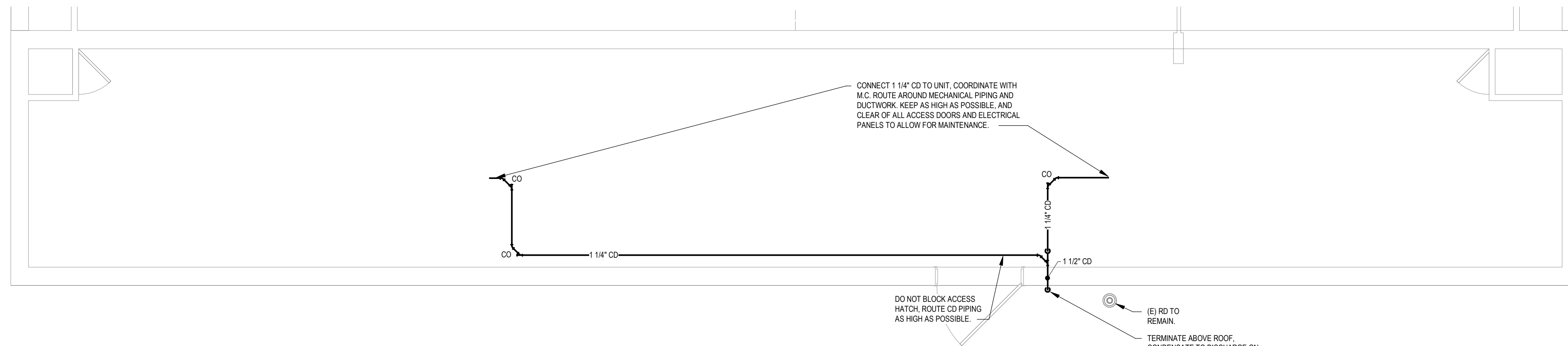
DRAWN BY TLG	PROJECT NUMBER 2023-105
CHECKED BY JLM	DATE 12/16/2024

CONDENSATE PIPING PLANS

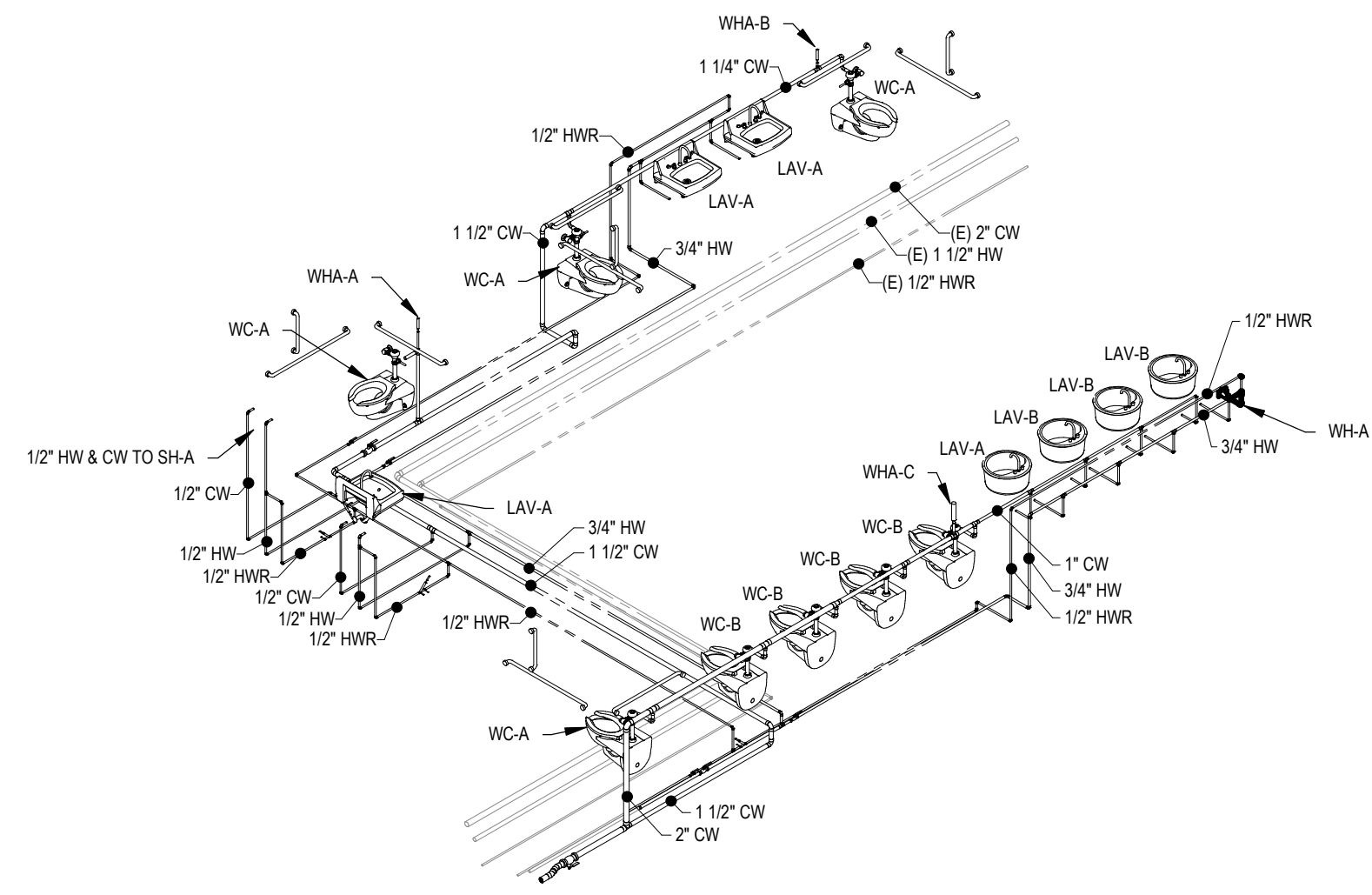
BUILDING NUMBER HS	SHEET NUMBER P200 BID
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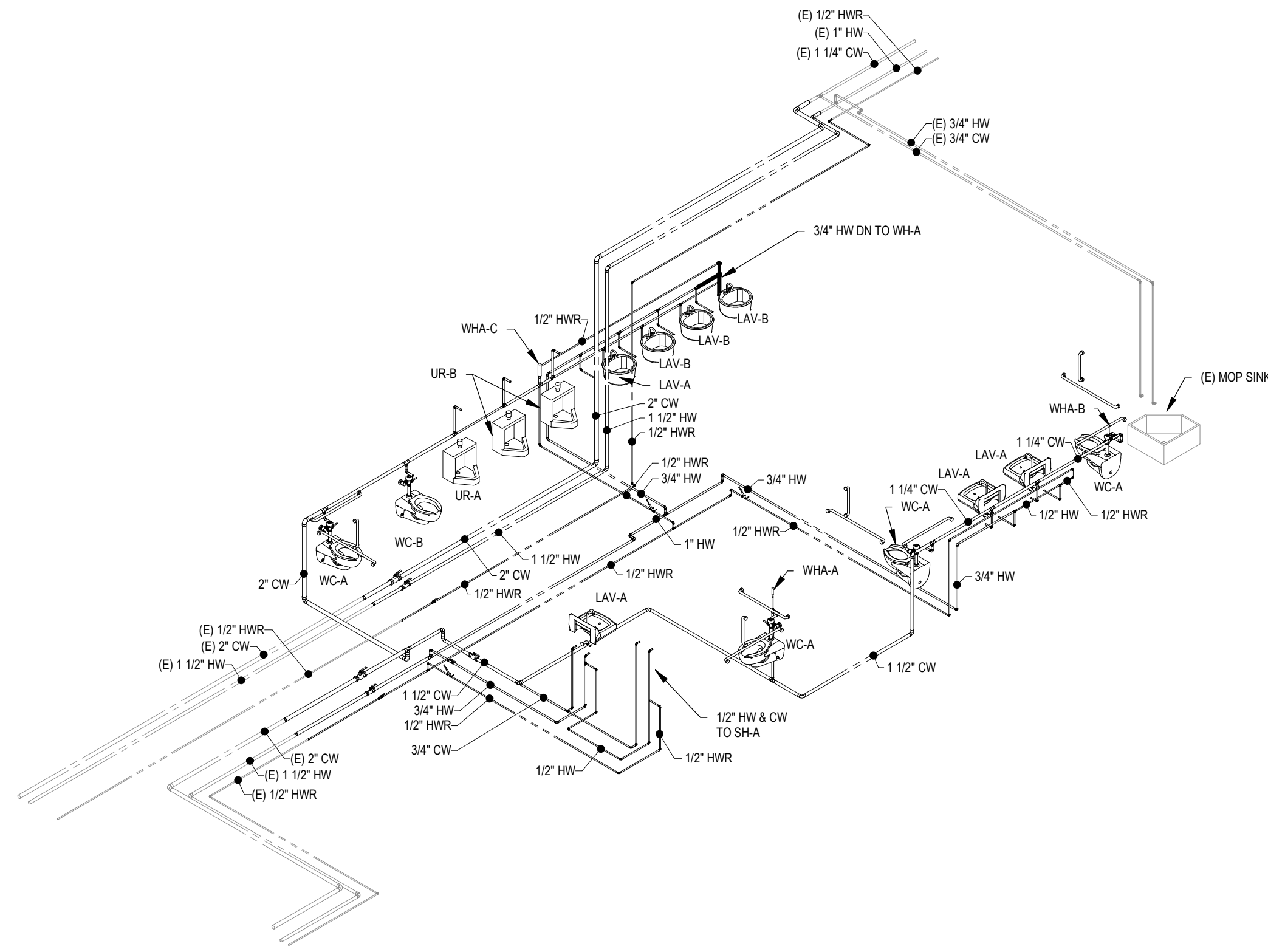
1 MEZZANINE 902 CONDENSATE PLAN
 SCALE: 1/4" = 1'-0"



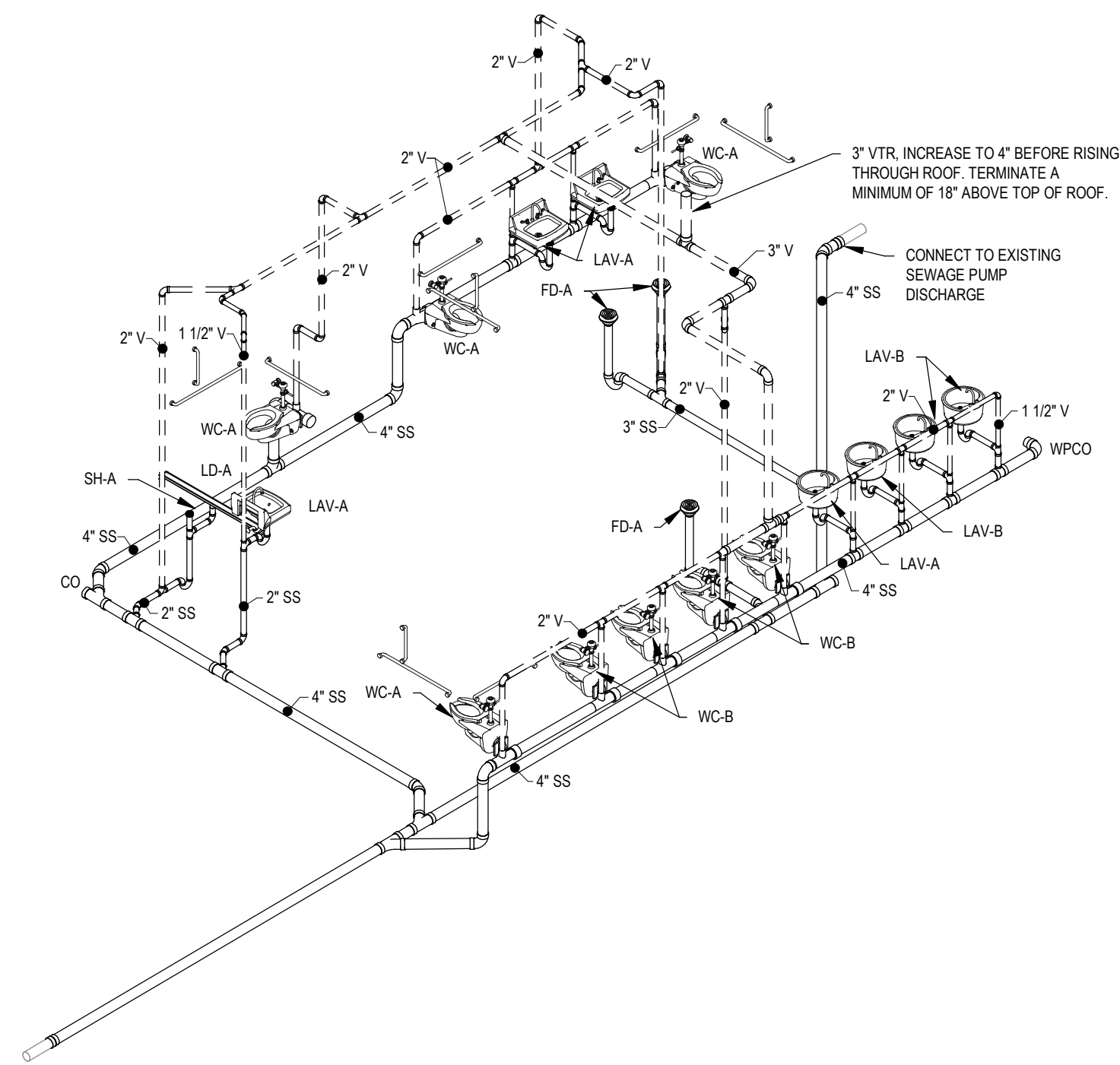
2 ALTERNATE PC-7: MEZZANINE 716 CONDENSATE PLAN
 SCALE: 1/4" = 1'-0"



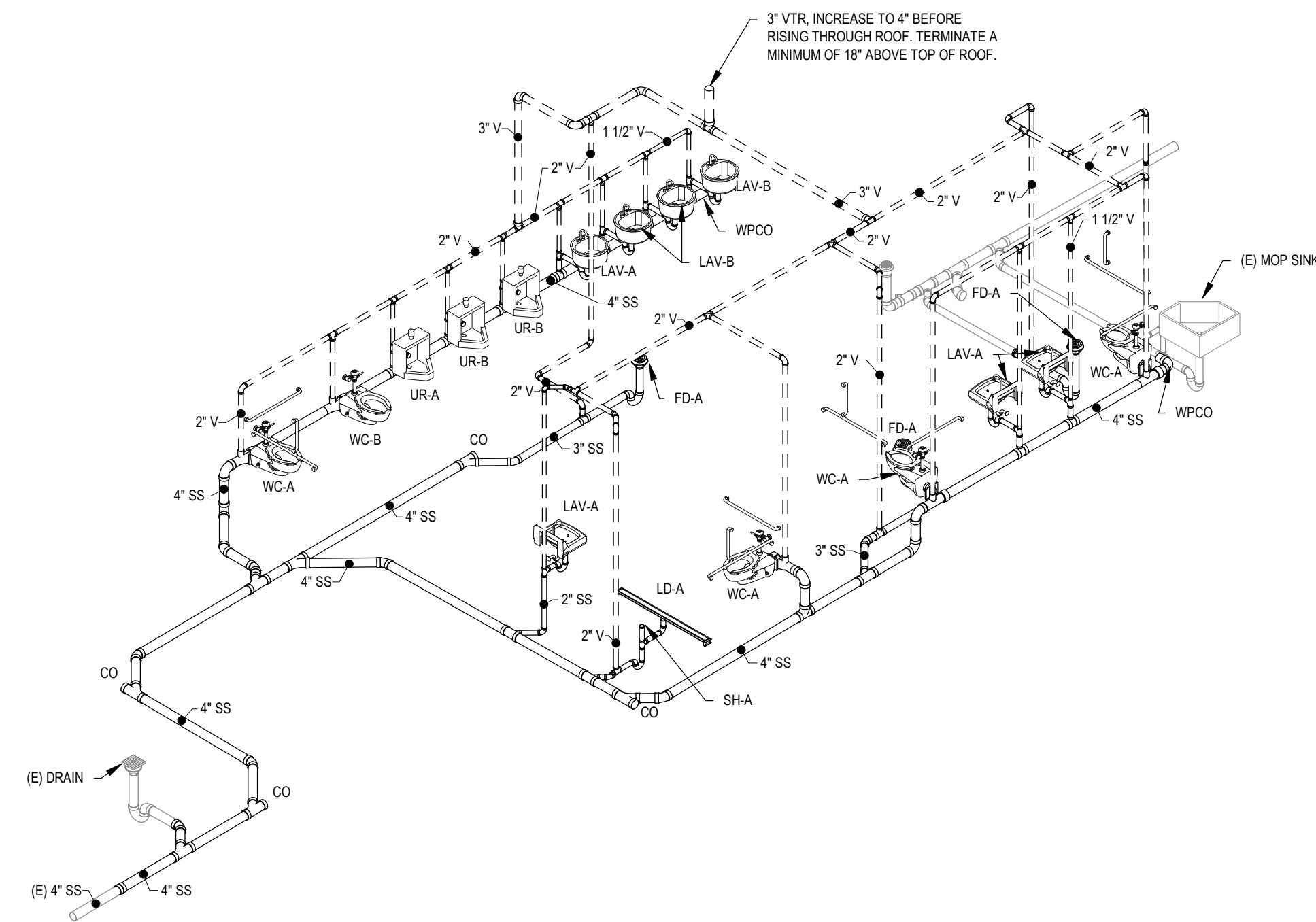
3 DOMESTIC WATER RISER DIAGRAM
SCALE: NOT TO SCALE



1 DOMESTIC WATER RISER DIAGRAM
SCALE: NOT TO SCALE



4 WASTE & VENT RISER DIAGRAM
SCALE: NOT TO SCALE

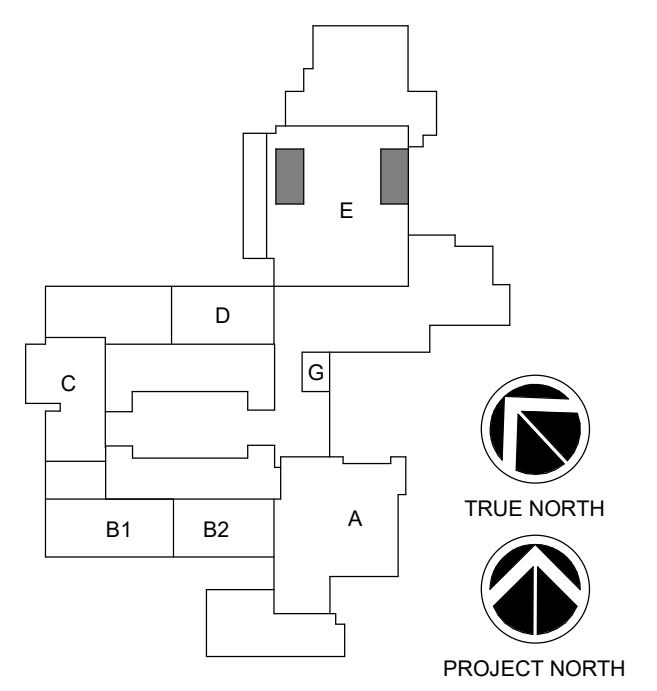


2 WASTE & VENT RISER DIAGRAM
SCALE: NOT TO SCALE

GENERAL NOTES:
1. SEE DRAWING P500 FOR GENERAL NOTES, ABBREVIATIONS, SYMBOLS AND LEGENDS

KEYNOTE LEGEND

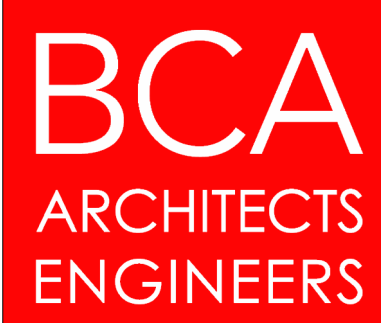
KEY PLAN:



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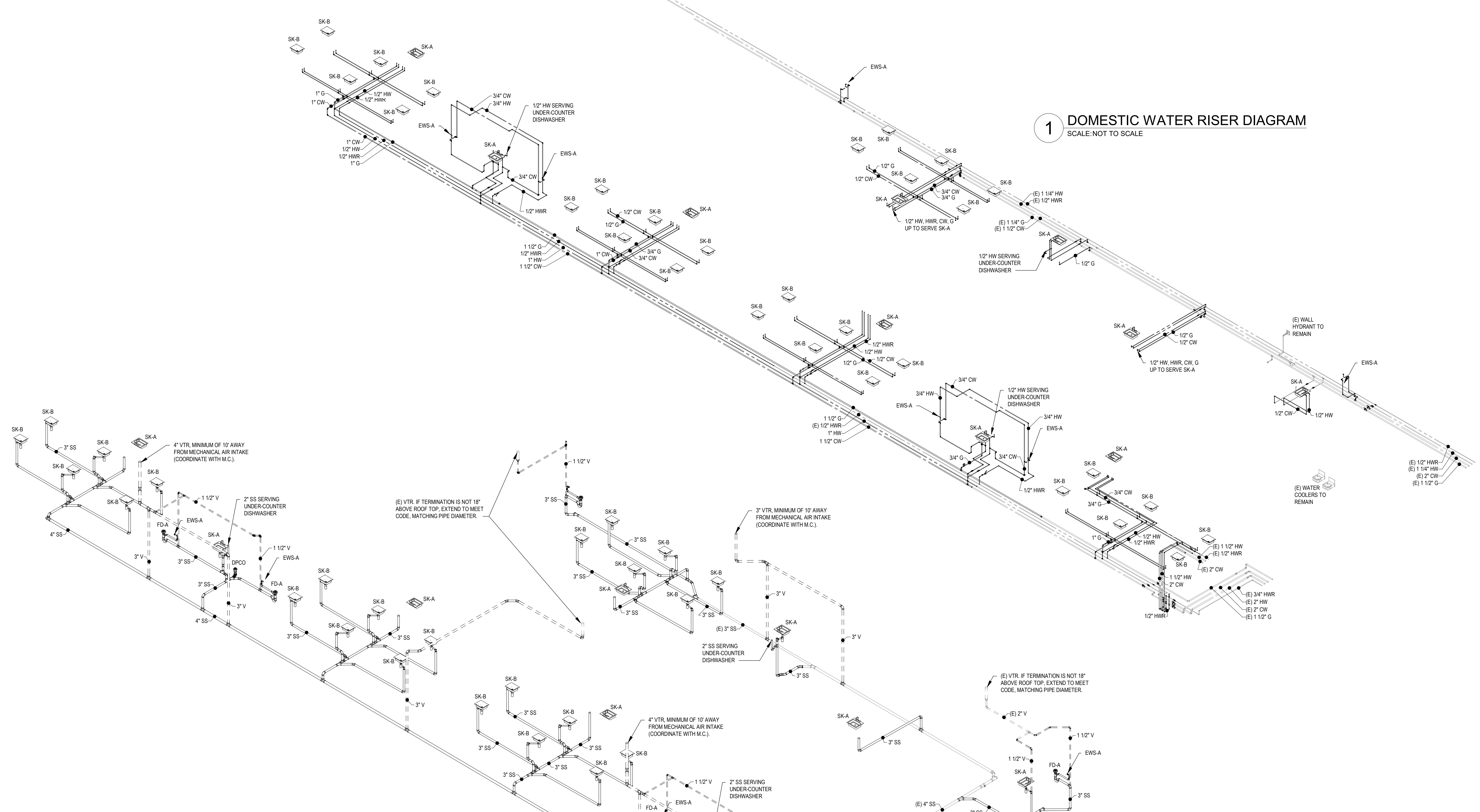
REV	DATE	DESCRIPTION
DRAWN BY		PROJECT NUMBER
		2023-105
CHECKED BY		DATE
JLM		12/16/2024
RISER DIAGRAMS - GYM TOILET ROOMS		
BUILDING NUMBER	SHEET NUMBER	
HS	P501	
	BID	

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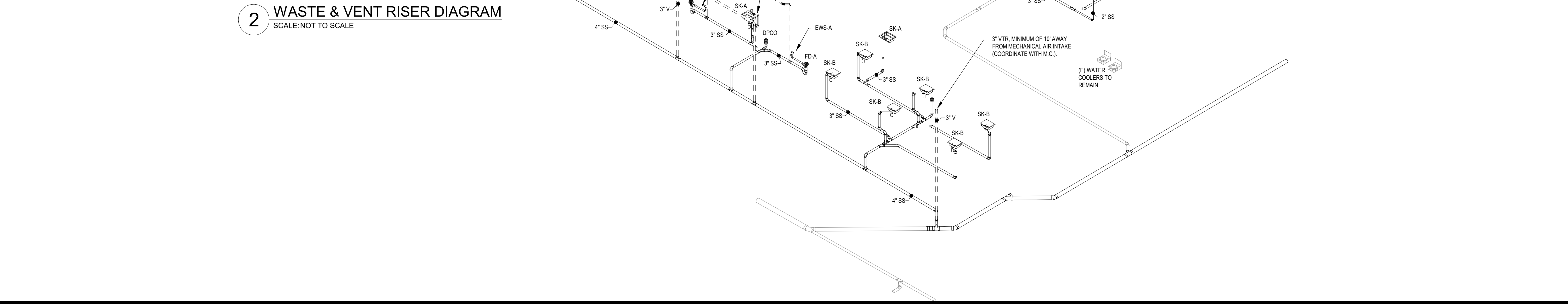
GENERAL NOTES:
 1. SEE DRAWING PS000 FOR GENERAL NOTES, ABBREVIATIONS, SYMBOLS AND LEGENDS

KEYNOTE LEGEND

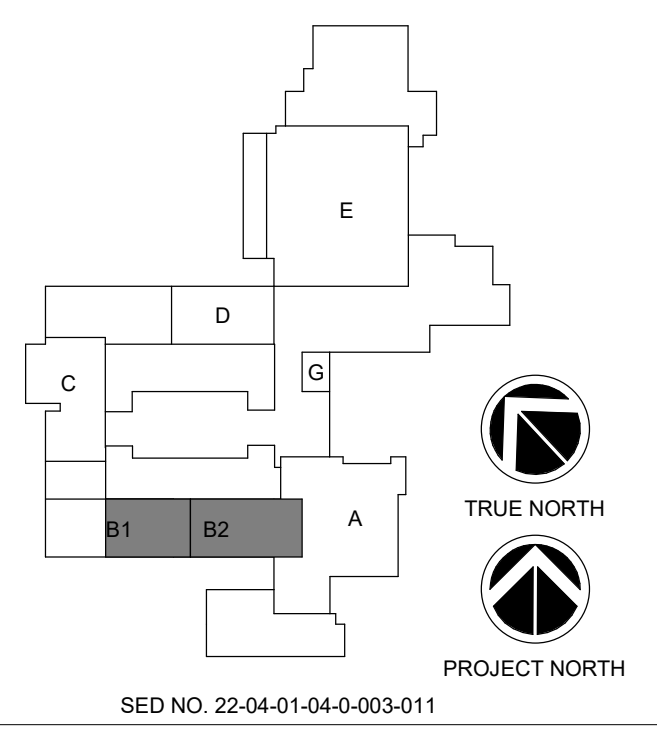
1 DOMESTIC WATER RISER DIAGRAM
 SCALE: NOT TO SCALE



2 WASTE & VENT RISER DIAGRAM
 SCALE: NOT TO SCALE



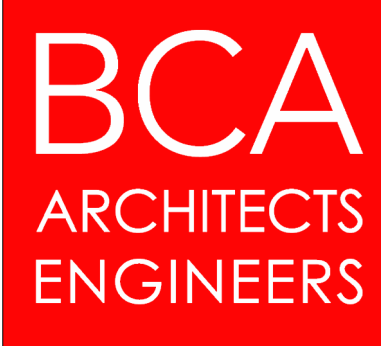
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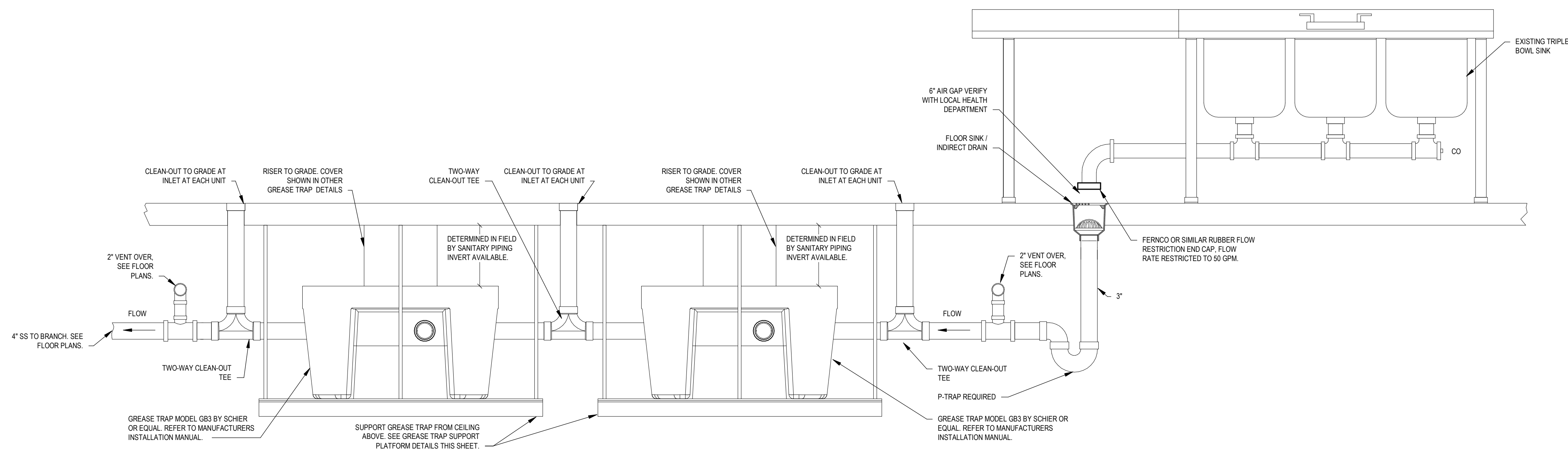


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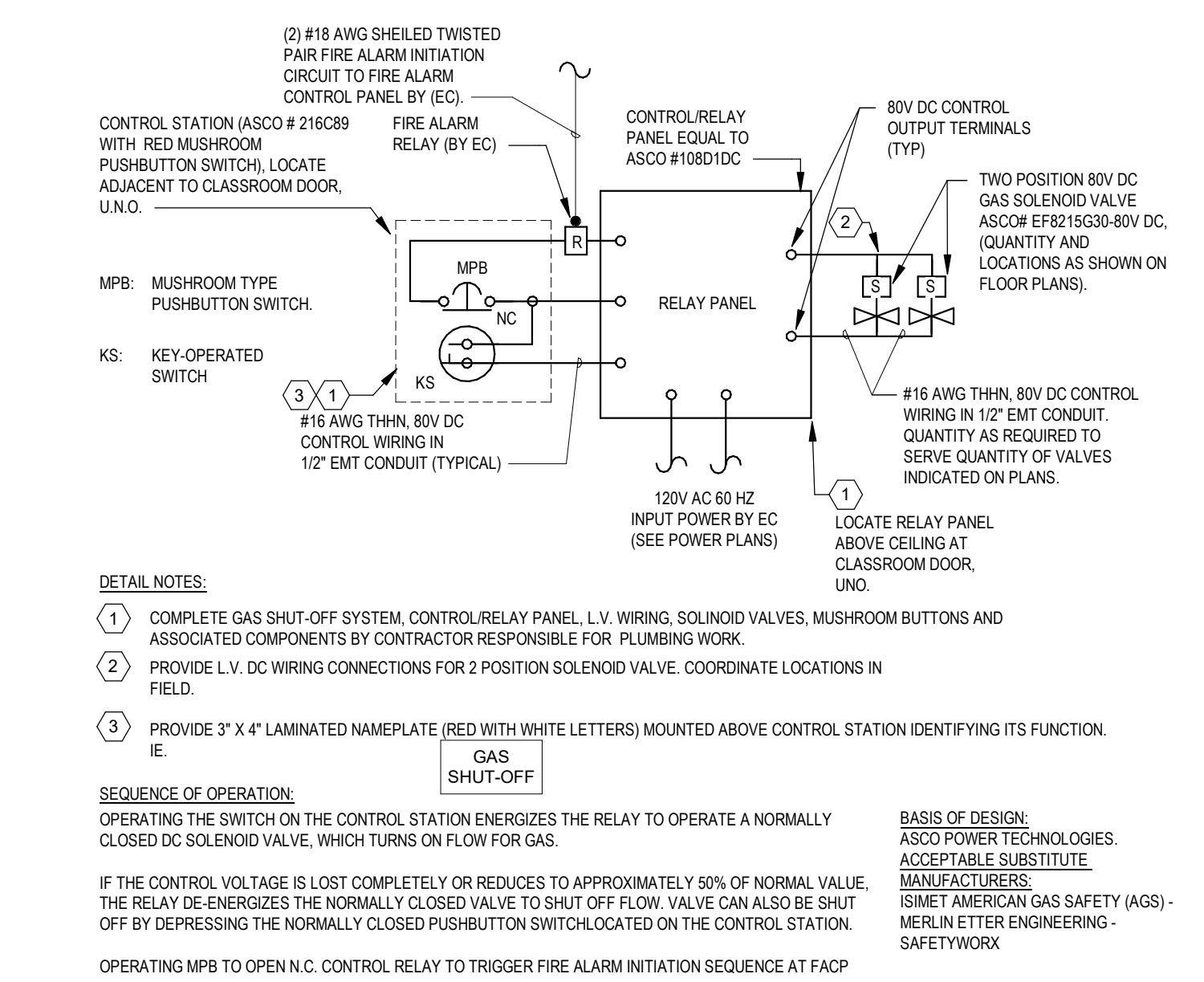
REV	DATE	DESCRIPTION

DRAWN BY TLG	PROJECT NUMBER 2023-105
CHECKED BY JLM	DATE 12/16/2024
RISER DIAGRAMS - SCIENCE WING	
BUILDING NUMBER HS	SHEET NUMBER P502 BID

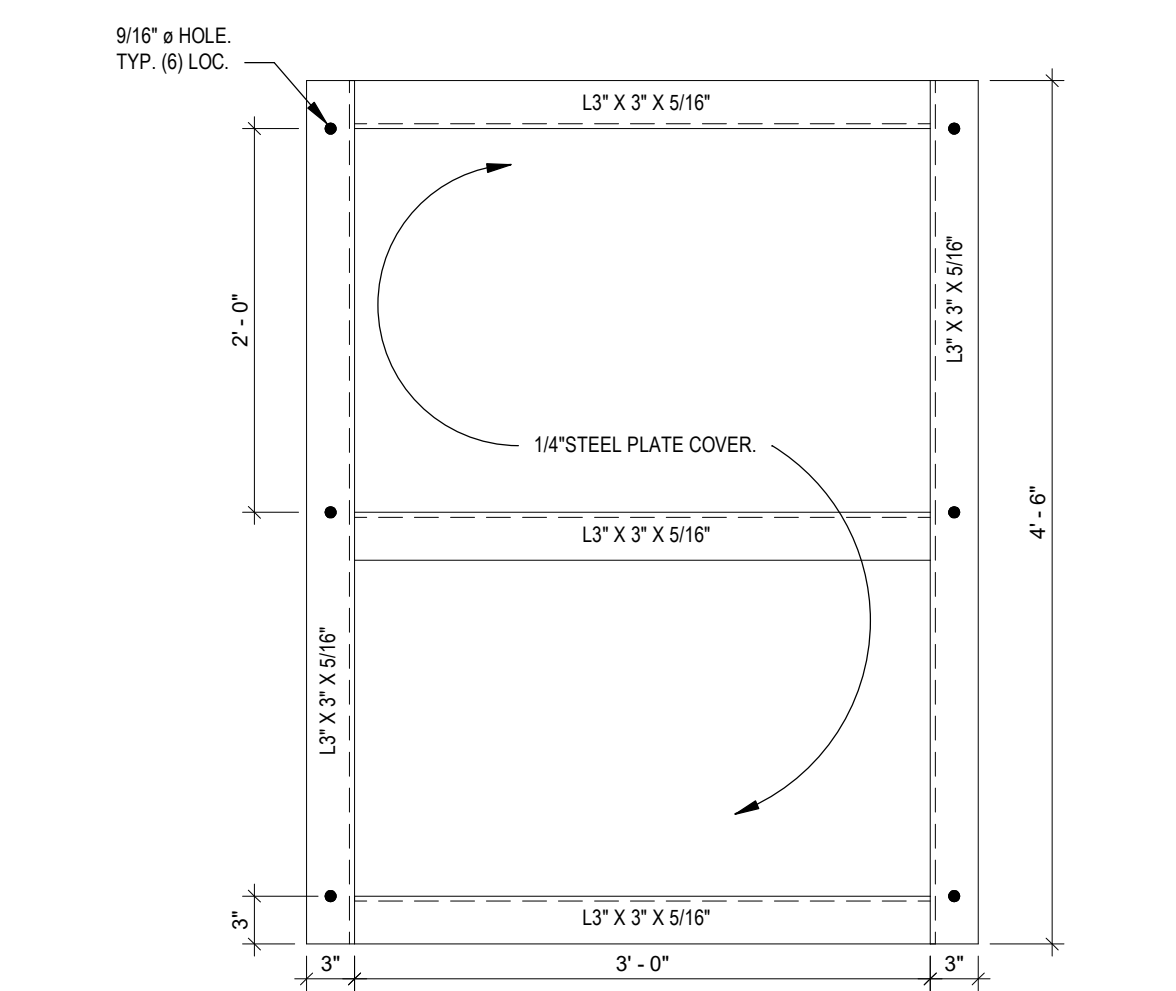
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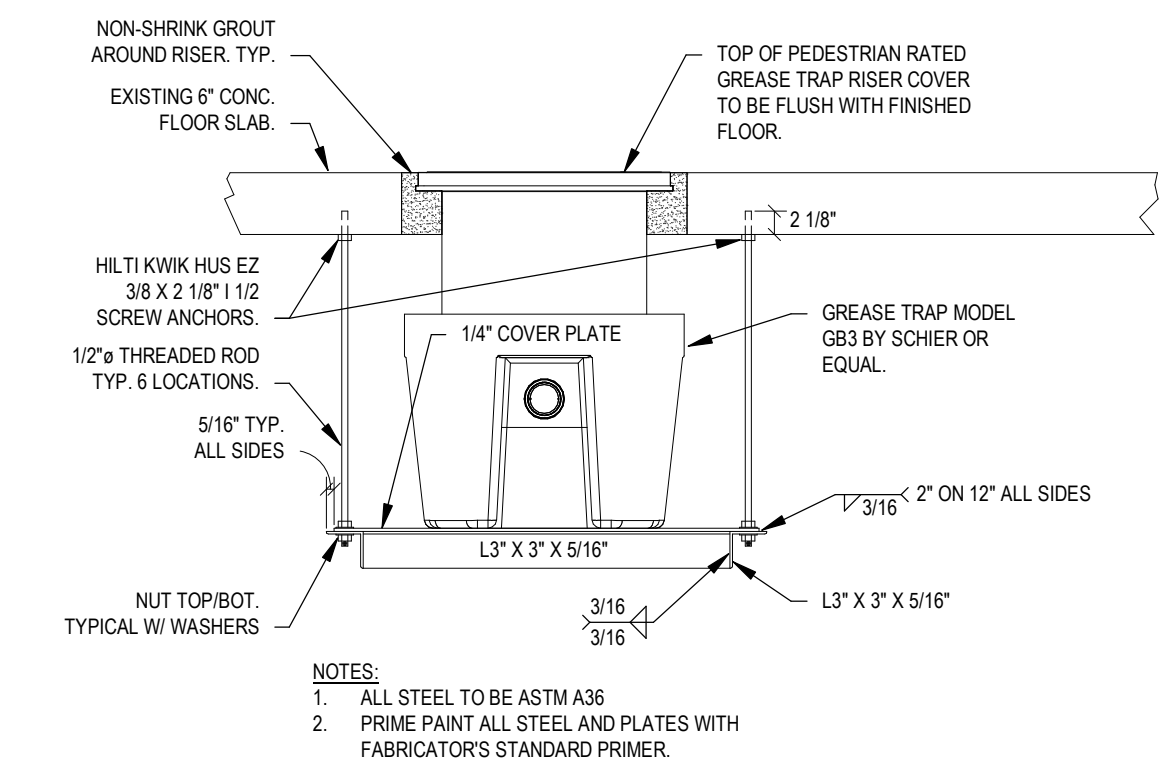
10 GREASE INTERCEPTOR SIDE VIEW DETAIL
SCALE: NOT TO SCALE



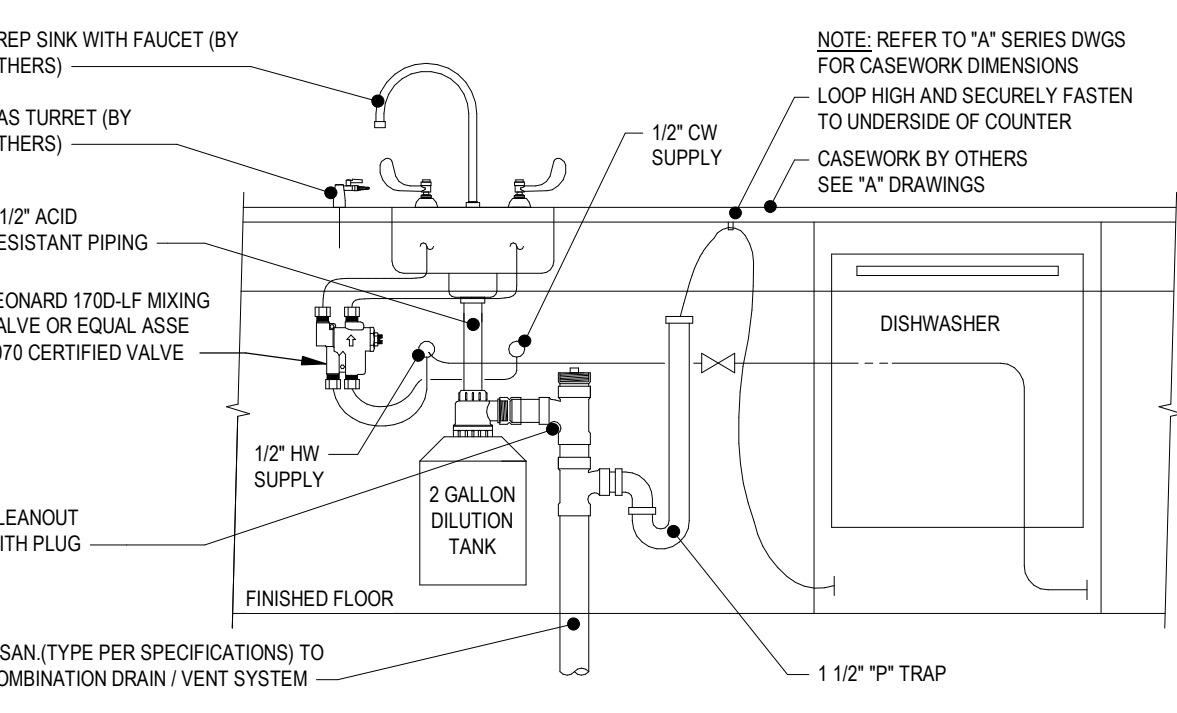
9 GAS EMERGENCY SHUT OFF
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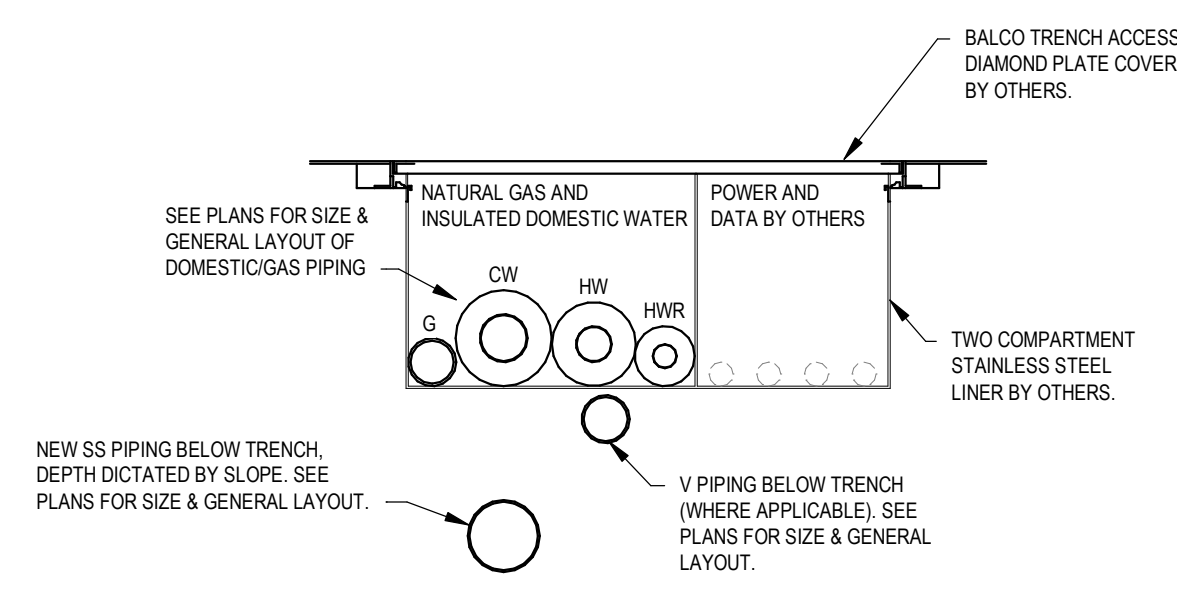
7 GREASE INTERCEPTOR SUPPORT DETAIL
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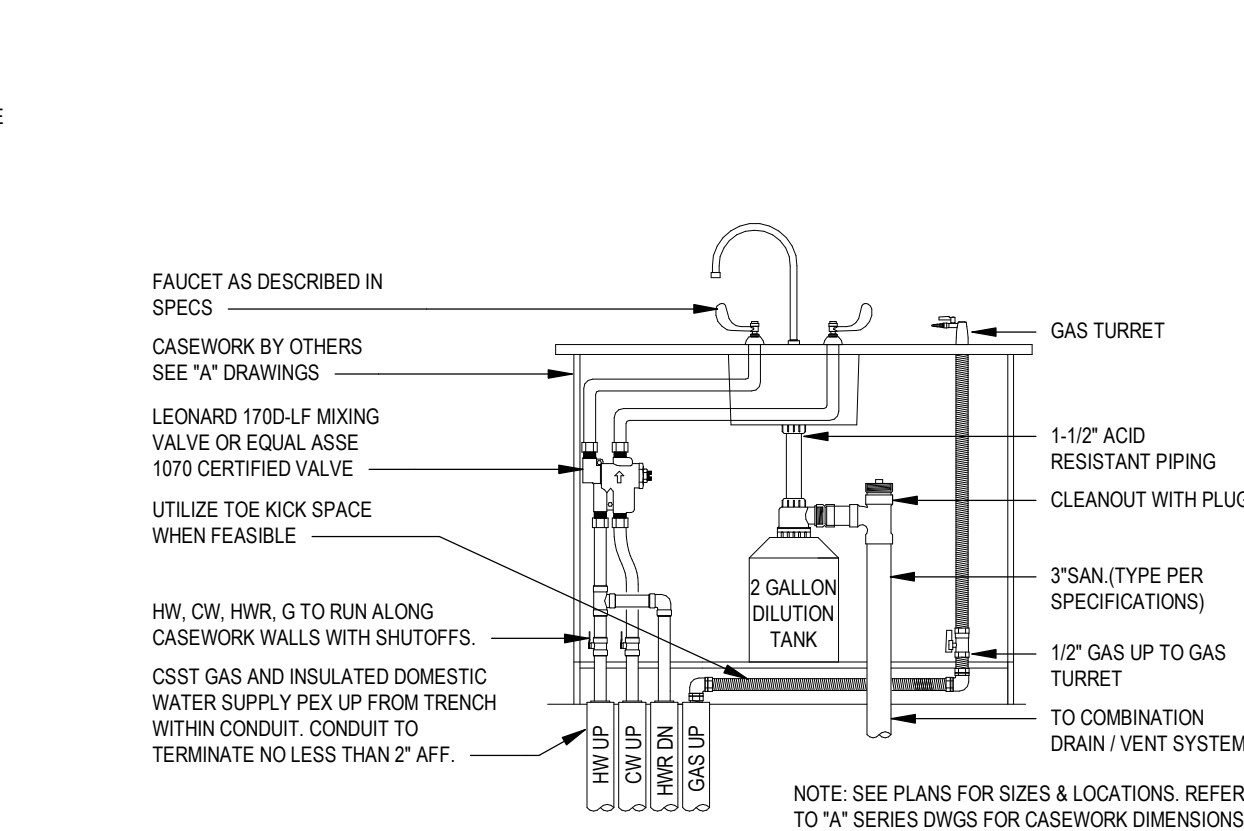
8 GREASE INTERCEPTOR SECTION DETAIL
SCALE: NOT TO SCALE



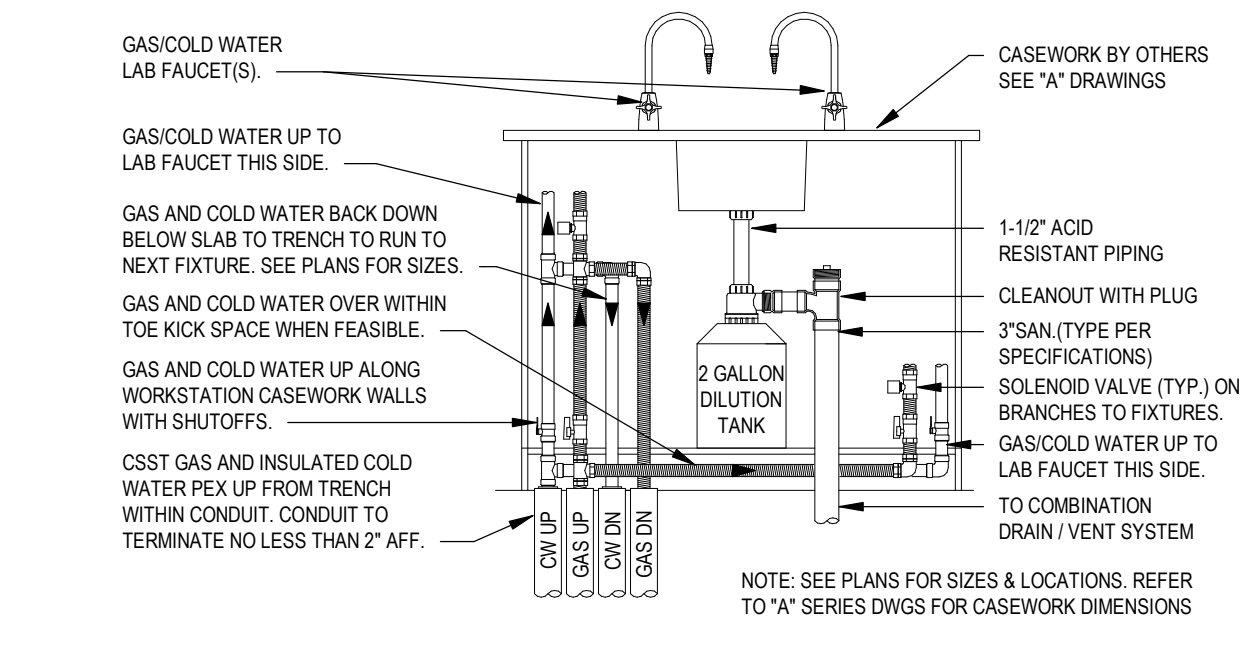
5 SCIENCE PREP ROOM SINK AND DISHWASHER CONNECTION DETAIL
SCALE: NOT TO SCALE



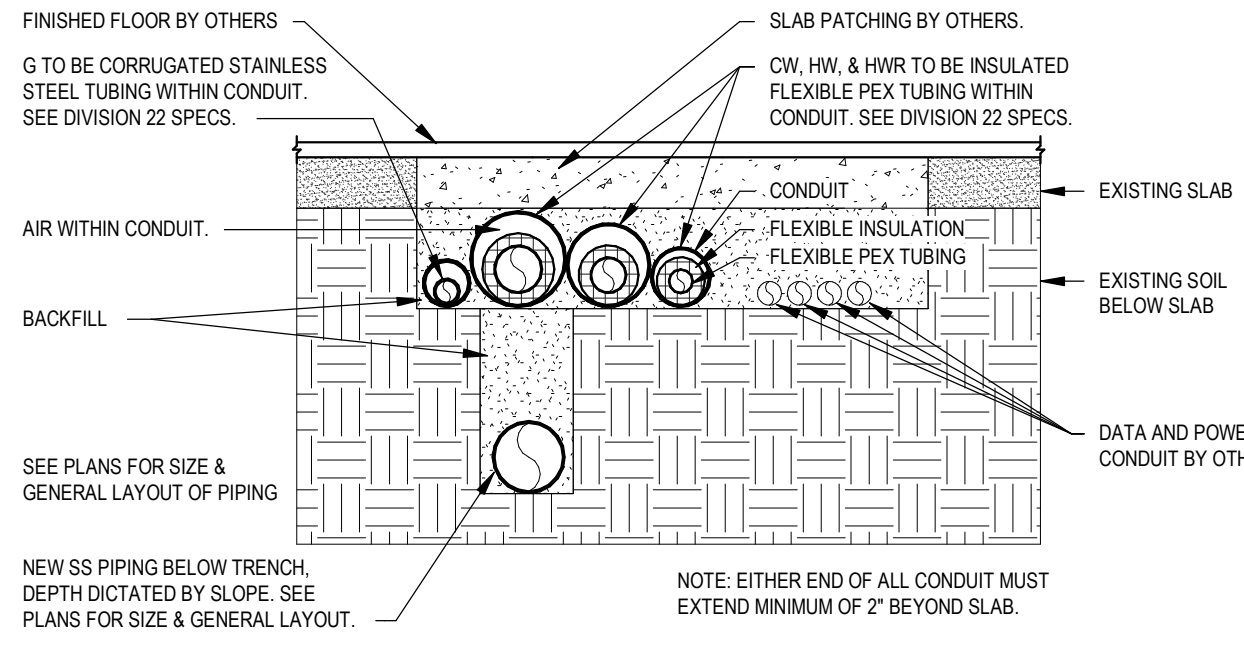
6 SCIENCE ROOM TRENCH DETAIL
SCALE: NOT TO SCALE



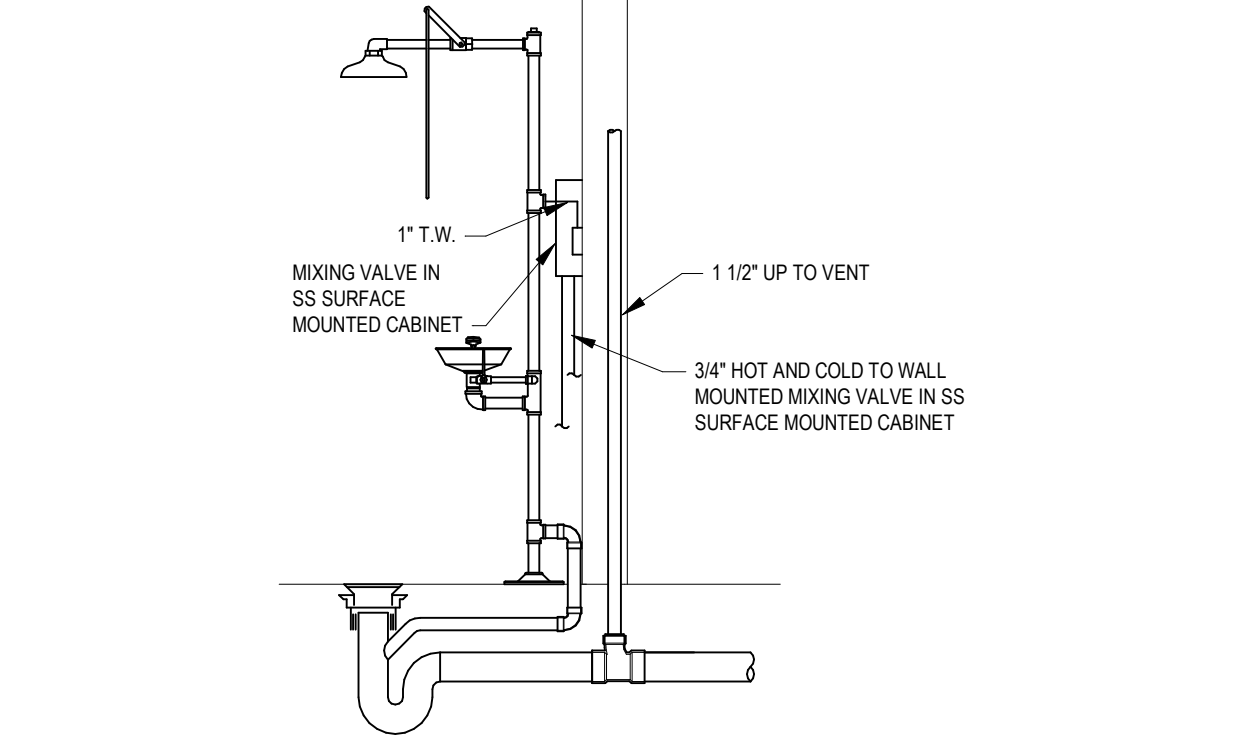
1 SINK WITH BURIED SUPPLIES (CW, HW, HWR, G) CONNECTION DETAIL
SCALE: NOT TO SCALE



2 SINK WITH BURIED GAS AND CW SUPPLIES CONNECTION DETAIL
SCALE: NOT TO SCALE



3 BURIED PIPING BELOW SLAB DETAIL
SCALE: NOT TO SCALE

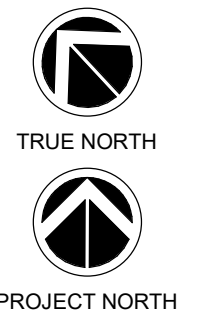


4 EMERGENCY EYEWASH PIPING DETAIL
SCALE: NOT TO SCALE

GENERAL NOTES:
1. SEE DRAWING P5000 FOR GENERAL NOTES, ABBREVIATIONS, SYMBOLS AND LEGENDS

KEYNOTE LEGEND

KEY PLAN:



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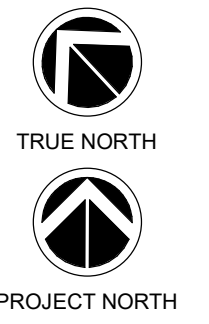
DRAWN BY: TLG PROJECT NUMBER: 2023-105
CHECKED BY: JLM DATE: 12/16/2024
DETAIL DIAGRAMS

BUILDING NUMBER: **HS** SHEET NUMBER: **P503**
BID

PLUMBING FIXTURES AND SPECIALTIES SCHEDULE

ID	DESCRIPTION	MANUFACTURER	MODEL	MATERIAL DESCRIPTION	FINISH	TRIM			MOTION SENSOR CONTROL	FLOW FIXTURE				FLUSH FIXTURE		WASTE ROUGH-IN PIPE SIZE	VENT PIPE SIZE	COLD WATER ROUGH-IN PIPE SIZE	HOT WATER ROUGH-IN PIPE SIZE	NATURAL GAS ROUGH-IN PIPE SIZE	SPECIFICATION
						MANUFACTURER	MODEL	TYPE		WATER FLOW	TIMER DURATION (SEC)	CWT	HWT	MAX. MWT	VOL. PER FLUSH						
EWC-A	WATER COOLER- ADA HEIGHT	ELKAY	LZS8WSLK	GALVANIZED STEEL	STAINLESS STEEL CABINET				NO	0.1 GPM	15	40 °F				1 1/2"	1 1/2"	1/2"			SINGLE LEVEL WALL HUNG WATER COOLER WITH BOTTLE FILLING STATION. THE UNIT SHALL BE COMPLETE WITH CABINET, MOUNTING FRAME, SELF CLOSING EASY TOUCH SIDE AND FRONT PUSHBAR CONTROLS, FLEXIGUARD SAFETY BUBBLER, REFRIGERATING SYSTEM, AIR COOLED, 120 VOLT, 60 CYCLE, SINGLE PHASE POWER CONNECTION, FULLY AUTOMATIC, COMPLETE AND READY TO OPERATE.
EWC-B	WATER COOLER	ELKAY	LZS8WSLK	GALVANIZED STEEL	STAINLESS STEEL CABINET				NO	0.1 GPM	15	40 °F				1 1/2"	1 1/2"	1/2"			SINGLE LEVEL WALL HUNG WATER COOLER WITH BOTTLE FILLING STATION. THE UNIT SHALL BE COMPLETE WITH CABINET, MOUNTING FRAME, SELF CLOSING EASY TOUCH SIDE AND FRONT PUSHBAR CONTROLS, FLEXIGUARD SAFETY BUBBLER, REFRIGERATING SYSTEM, AIR COOLED, 120 VOLT, 60 CYCLE, SINGLE PHASE POWER CONNECTION, FULLY AUTOMATIC, COMPLETE AND READY TO OPERATE.
EWS-A	EMERGENCY SHOWER WITH EYEWASH	BY OTHERS	BY OTHERS									40 °F	110 °F	100 °F		2"	2"	3/4"	3/4"		THE INDIVIDUAL EMERGENCY WASH STATION IS SPECIFIED IN ANOTHER DIVISION. EXTERNAL ASSE 1070 COMPLIANT THERMOSTATIC MIXING VALVE, GUARDIAN EQUIPMENT MODEL G6040.
LAV-A	LAVATORY - WALL HUNG - ADA	AMERICAN STANDARD	LUCERNE 0355.012	WHITE VITREOUS CHINA	WHITE	SLOAN	EPX-275-4-SOL-ISM-CP-0.5GPM-MLM-IR-FCT	SOLAR / BATTERY	YES	0.5 GPM	12	40 °F	110 °F	100 °F		1 1/2"	1 1/2"	1/2"	1/2"		WALL HUNG LAVATORY WITH BACKSPASH, FAUCET HOLES ON 4" CENTERS. DECK-MOUNTED FAUCET WITH SENSOR, WATER TURBINE POWER WITH VANDAL RESISTANT SPRAY, EXTERNAL ASSE 1070 COMPLIANT THERMOSTATIC MIXING VALVE, GRID DRAIN, LOOSE KEY ANGLE STOPS AND SUPPLIES. INSULATE WATER AND WASTE WITH ADA INSULATION KIT. MOUNT AT ADA COMPLIANT HEIGHT.
LAV-B	LAVATORY - WALL HUNG	AMERICAN STANDARD	LUCERNE 0355.013	WHITE VITREOUS CHINA	WHITE	SLOAN	EPX-275-4-SOL-ISM-CP-0.5GPM-MLM-IR-FCT	SOLAR / BATTERY	YES	0.5 GPM	12	40 °F	110 °F	100 °F		1 1/2"	1 1/2"	1/2"	1/2"		WALL HUNG LAVATORY WITH BACKSPASH, FAUCET HOLES ON 4" CENTERS. DECK-MOUNTED FAUCET WITH SENSOR, WATER TURBINE POWER WITH VANDAL RESISTANT SPRAY, EXTERNAL ASSE 1070 COMPLIANT THERMOSTATIC MIXING VALVE, GRID DRAIN, LOOSE KEY ANGLE STOPS AND SUPPLIES. INSULATE WATER AND WASTE WITH ADA INSULATION KIT. MOUNT AT STANDARD HEIGHT.
LD-A	LINEAR DRAIN - NO PRIMER	QUICK DRAIN USA	PLD												2"	1 1/2"					STAINLESS STEEL CHANNEL BODY WITH CENTERED OUTLET, NO HUB COUPLING. PROVIDE CORRESPONDING GRATE.
FD-A	FLOOR DRAIN - NO PRIMER	WATTS	FD-100-L												3"	2"					EPOXY COATED CAST IRON FLOOR DRAIN WITH ANCHOR FLANGE, REVERSIBLE CLAMPING COLLAR WITH PRIMARY & SECONDARY WEEPHOLES, ADJUSTABLE ROUND HEEL PROOF HEAVY DUTY NICKEL BRONZE STRAINER, AND NO HUB OUTLET.
SK-A	SCIENCE SINK	BY OTHERS	BY OTHERS			BY OTHERS	BY OTHERS					40 °F	110 °F	100 °F		2"	1 1/2"	1/2"	1/2"	1/2"	THE INDIVIDUAL SINK BASIN IS SPECIFIED IN ANOTHER DIVISION. DILUTION TRAP, SUPPLIES AND STOPS. INSULATE WATER AND WASTE TO MEET ADA REQUIREMENTS. EXTERNAL ASSE 1070 COMPLIANT THERMOSTATIC MIXING VALVE. REFER TO SPECIFICATION SECTION 22 4000.
SK-B	SCIENCE SINK	BY OTHERS	BY OTHERS			BY OTHERS	BY OTHERS					40 °F	110 °F	100 °F		2"	1 1/2"	1/2"	1/2"	1/2"	THE INDIVIDUAL SINK BASIN IS SPECIFIED IN ANOTHER DIVISION. DILUTION TRAP, SUPPLIES AND STOPS. INSULATE WATER AND WASTE TO MEET ADA REQUIREMENTS.
SK-C	DOUBLE BOWL SINK	JUST MANUFACTURING	DLADA2128A55-J	STAINLESS STEEL	STAINLESS STEEL	CHICAGO FAUCET CO	786-GN10AE3SWGABCP	MANUAL	NO	2.2 GPM		40 °F	110 °F	100 °F		2"	1 1/2"	1/2"	1/2"		DOUBLE COMPARTMENT, ADA COMPLIANT, SELF-RIMMING, 18 GAUGE, 10"SWING GOOSENECK SPOUT, 4" WRIST BLADE HANDLES, BASKET STRAINER, P-TRAP, TAILPIECES, SUPPLIES AND STOPS. INSULATE WATER AND WASTE TO MEET ADA REQUIREMENTS. EXTERNAL ASSE 1070 COMPLIANT THERMOSTATIC MIXING VALVE. REFER TO SPECIFICATION SECTION 22 4000.
SK-D	DROP IN - SINGLE BOWL	JUST MANUFACTURING	SLADA2125A65-J	STAINLESS STEEL	STAINLESS STEEL	CHICAGO FAUCET CO	786-GN10AE3SWGABCP	MANUAL	NO	2.2 GPM		40 °F	110 °F	100 °F		2"	1 1/2"	1/2"	1/2"		SINGLE COMPARTMENT, ADA COMPLIANT, SELF-RIMMING, 18 GAUGE, 10"SWING GOOSENECK SPOUT, 4" WRIST BLADE HANDLES, STRAINER, P-TRAP, TAILPIECES, SUPPLIES AND STOPS. INSULATE WATER AND WASTE TO MEET ADA REQUIREMENTS. EXTERNAL ASSE 1070 COMPLIANT THERMOSTATIC MIXING VALVE. REFER TO SPECIFICATION SECTION 22 4000.
SK-E	DROP IN - SINGLE BOWL	JUST MANUFACTURING	SLXD2233A-J	STAINLESS STEEL	STAINLESS STEEL	CHICAGO FAUCET CO	786-GN10AE3SWGABCP	MANUAL	NO	2.2 GPM		40 °F	110 °F	100 °F		2"	1 1/2"	1/2"	1/2"		SINGLE COMPARTMENT, ADA COMPLIANT, SELF-RIMMING, 18 GAUGE, 10"SWING GOOSENECK SPOUT, 4" WRIST BLADE HANDLES, STRAINER, P-TRAP, TAILPIECES, SUPPLIES AND STOPS. INSULATE WATER AND WASTE TO MEET ADA REQUIREMENTS. EXTERNAL ASSE 1070 COMPLIANT THERMOSTATIC MIXING VALVE. REFER TO SPECIFICATION SECTION 22 4000.
SK-F	DROP IN - SINGLE BOWL	JUST MANUFACTURING	SLADA2233A60-J	STAINLESS STEEL	STAINLESS STEEL	CHICAGO FAUCET CO	786-GN10AE3SWGABCP	MANUAL	NO	2.2 GPM		40 °F	110 °F	100 °F		2"	1 1/2"	1/2"	1/2"		SINGLE COMPARTMENT, ADA COMPLIANT, SELF-RIMMING, 18 GAUGE, 10"SWING GOOSENECK SPOUT, 4" WRIST BLADE HANDLES, STRAINER, P-TRAP, TAILPIECES, SUPPLIES AND STOPS. INSULATE WATER AND WASTE TO MEET ADA REQUIREMENTS. EXTERNAL ASSE 1070 COMPLIANT THERMOSTATIC MIXING VALVE. REFER TO SPECIFICATION SECTION 22 4000.
SK-G	DOUBLE BOWL SINK	JUST MANUFACTURING	DL-2128A-J	STAINLESS STEEL	STAINLESS STEEL	CHICAGO FAUCET CO	786-GN10AE3SWGABCP	MANUAL	NO	2.2 GPM		40 °F	110 °F	100 °F		2"	1 1/2"	1/2"	1/2"		DOUBLE COMPARTMENT, SELF-RIMMING, 18 GAUGE, 10"SWING GOOSENECK SPOUT, 4" WRIST BLADE HANDLES, BASKET STRAINER, P-TRAP, TAILPIECES, SUPPLIES AND STOPS. INSULATE WATER AND WASTE TO MEET ADA REQUIREMENTS. EXTERNAL ASSE 1070 COMPLIANT THERMOSTATIC MIXING VALVE. REFER TO SPECIFICATION SECTION 22 4000.
SH-A	SHOWER STALL	BY OTHERS	BY OTHERS			ACORN ENGINEERING COMPANY	488BBF-W-LVR-MSH-F-2.0-D-LGB-HHGBC-1108CAP-1	MANUAL	NO	1.5 GPM		40 °F	110 °F	100 °F		2"	1 1/2"	1/2"	1/2"		THE INDIVIDUAL SHOWER STALL IS SPECIFIED IN ANOTHER DIVISION. PROVIDE A SHOWER DRAIN AS SPECIFIED IN "SOIL, WASTE, AND VENT PIPING SYSTEMS." SHOWER SYSTEM WITH ASSE 1016 COMPLIANT TYPE "TIP" THERMOSTATIC/PRESSURE BALANCING COMBINATION MIXING VALVE WITH ADJUSTABLE STOP SCREW TO LIMIT HANDLE TURN. PROVIDE MANUFACTURER'S FLOW RATE RESTRICTOR ON SHOWERHEAD. SEE SPECIFICATION SECTION 22 4000.
UR-A	URINAL - WALL HUNG - ADA	AMERICAN STANDARD	WASHBROOK 6590.001	WHITE VITREOUS CHINA	WHITE	SLOAN	SOLIS 8186-0.5-OR	SOLAR / BATTERY	YES			40 °F			0.5 GAL	0.5 GAL	2"	1 1/2"	3/4"		WALL HUNG URINAL WITH WASHOUT ACTION, TOP SPUD, SIZE 18" WITH INTEGRAL EXTENDED SHIELDS SUPPORTED BY THROUGH GOING BOLTS AND C.P. NUTS. SOLAR POWERED SENSOR ACTIVATED FLUSHOMETER. INSTALL AT ADA COMPLIANT HEIGHT.
UR-B	URINAL - WALL HUNG	AMERICAN STANDARD	WASHBROOK 6590.002	WHITE VITREOUS CHINA	WHITE	SLOAN	SOLIS 8186-0.5-OR	SOLAR / BATTERY	YES			40 °F			0.5 GAL	0.5 GAL	2"	1 1/2"	3/4"		WALL HUNG URINAL WITH WASHOUT ACTION, TOP SPUD, SIZE 18" WITH INTEGRAL EXTENDED SHIELDS SUPPORTED BY THROUGH GOING BOLTS AND C.P. NUTS. SOLAR POWERED SENSOR ACTIVATED FLUSHOMETER. INSTALL AT STANDARD HEIGHT.
WC-A	WATER CLOSET - WALL HUNG - ADA	AMERICAN STANDARD	AFWALL 3351.101	WHITE VITREOUS CHINA	WHITE	SLOAN	SOLIS 8111-1.28-OR	SOLAR / BATTERY	YES			40 °F			1.28 GAL	1.28 GAL	4"	2"	1"		ELONGATED WALL HUNG WATER CLOSET, 1-1/2" TOP SPUD, WITH CHURCH 295CT ELONGATED OPEN FRONT SEAT. SOLAR POWERED SENSOR ACTIVATED FLUSHOMETER. INSTALL AT ADA COMPLIANT HEIGHT.
WC-B	WATER CLOSET - WALL HUNG	AMERICAN STANDARD	AFWALL 3351.102	WHITE VITREOUS CHINA	WHITE	SLOAN	SOLIS 8111-1.28-OR	SOLAR / BATTERY	YES			40 °F			1.28 GAL	1.28 GAL	4"	2"	1"		ELONGATED WALL HUNG WATER CLOSET, 1-1/2" TOP SPUD, WITH CHURCH 295CT ELONGATED OPEN FRONT SEAT. SOLAR POWERED SENSOR ACTIVATED FLUSHOMETER. INSTALL AT STANDARD HEIGHT.

KEY PLAN:



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REV	DATE	DESCRIPTION

DRAWN BY TLG	PROJECT NUMBER 2023-105
CHECKED BY JLM	DATE 12/16/2024

SCHEDULES

BUILDING NUMBER HS	SHEET NUMBER P600 BID
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12/16/2024 6:07:20 PM

ELECTRICAL ABBREVIATIONS LIST

1P	1 POLE (2P, 3P, 4P, ETC.)	MCB	MAIN CIRCUIT BREAKER
AC	ABOVE COUNTER	MCC	MOTOR CONTROL CENTER
ACLG	ABOVE CEILING	MDC	MAIN DISTRIBUTION CENTER
ADA	AMERICAN WITH DISABILITIES ACT	MFR	MANUFACTURER
ADO	AUTOMATIC DOOR OPENER	MFD	MAIN FUSED DISCONNECT SW
AF	AMP FRAME	MH	MANHOLE
AFI	ABOVE FINISHED FLOOR	MIC	MICROPHONE
AFG	ABOVE FINISHED GRADE	MIS	MISCELLANEOUS
AFR	ARC FAULT CIRCUIT INTERRUPTER	MLO	MAIN LUGS ONLY
AHJ	AUTHORITY HAVING JURISDICTION	MMS	MANUAL MOTOR STARTER
AHU	AIR HANDLING UNIT	MMA	MULTIOUTLET ASSEMBLY
AI	AMPERE INTERRUPTING CAPACITY	MOC	MAXIMUM OVER-CURRENT PROTECTION
AL	ALUMINUM	MSP	MOTOR STARTER PANELBOARD
ALT	ALTERNATE	MSB	MAIN SWITCHBOARD
AMP	AMPERE	MT	MOUNT
AMPF	AMPLIFIER	MT C	EMPTY CONDUIT
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE	MTR	MANUAL TRANSFER SWITCH
ANNUN	ANNUNCIATOR	MTR	MOTOR, MOTORIZED
APPROX	APPROXIMATELY	N.C.	NORMALLY CLOSED
AS	ARCHITECT, ARCHITECTURAL	NEC	NATIONAL ELECTRICAL CODE
AS-STAT	AQUASTAT	NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
AT	AMP SWITCH	NFDS	NON-FUSED SAFETY DISCONNECT SWITCH
ATS	AUTOMATIC TRANSFER SWITCH	NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
AUTO	AUTOMATIC	NIC	NOT IN CONTRACT
AUX	AUXILIARY	NL	NIGHT LIGHT
AV	AUDIO VISUAL	N.O.	NORMALLY OPEN
AWG	AMERICAN WIRE GAUGE	NPF	NORMAL POWER FACTOR
BATT	BATTERY	NTS	NOT TO SCALE
BD	BOARD	OH	OVERHEAD
BFG	BELOW FINISH GRADE	OL	OVER LADS
BLDG	BUILDING	OL	POLE
BMS	BUILDING MANAGEMENT SYSTEM	PA	PUBLIC ADDRESS
C	CONDUIT	PB	PULL BOX OR PUSHBUTTON
CAB	CABINET	PE	PNEUMATIC ELECTRIC
CAT	CATALOG	PF	PEDESTAL
CATV	CABLE TELEVISION	PH	PHASE
CB	CIRCUIT BREAKER	PIV	POST INDICATING VALVE
CCTV	CLOSED CIRCUIT TELEVISION	PJ	POWER POLE
CKT	CIRCUIT	PKE	POWER OVER ETHERNET
CLF	CURRENT LIMITING FUSE	PP	POWER POLE
CLG	CEILING	PR	PAIR
COMB	COMBINATION	PRV	PRIMARY
COMP	COMPRESSOR	PRO	PROTECTION
CONN	CONNECTION	PRV	POWER ROOF VENTILATOR
CONST	CONSTRUCTION	PT	POTENTIAL TRANSFORMER
CONT	CONTINUATION OR CONTINUOUS	PVC	POLYVINYL CHLORIDE (CONDUIT)
CONTR	CONTRACTOR	Q	QUANTITY
CONV	CONVERTOR	QNT	QUANTITY
CP	CIRCULATING PUMP	RCPT	RECEPTACLE
CRT	CATHODE-RAY TUBE	RE	RELOCATED
CT	CURRENT TRANSFORMER	RGS	RIGID GALVANIZED STEEL
CTR	CENTER	RMT	ROOM
CJ	COPPER	RSC	RIGID STEEL CONDUIT
DCP	DOMESTIC WATER CIRCULATING PUMP	RTU	ROOF TOP UNIT
DEPT	DEPARTMENT	SC	SURFACE CONDUIT
DET	DETAIL	SEC	SECONDARY
DIA	DIAMETER	SEC	SHEET
DISC	DISCONNECT	SEM	SIMILAR
DIST	DISTRIBUTION	SN	SOLID NEUTRAL
DN	DOWN	SPEC	SPECIFICATION
DPR	DAMPEN	SPR	SPEAKER
DS	SAFETY DISCONNECT SWITCH	SP	SPARE
DT	DOUBLE THROW	SR	SURFACE RACEWAY
DWG	DRAWING	SS	STAINLESS STEEL
EC	ELECTRICAL CONTRACTOR	ST	STANDARD
EF	EXHAUST FAN	ST	STATION
ELEC	ELECTRIC ELECTRICAL	ST	STANDARD
ELEV	ELEVATOR	ST	STANDARD
ELU	EMERGENCY LIGHTING UNIT	SW	SWITCH
EM	EMERGENCY	SWB	SWITCHBOARD
EMS	ENERGY MANAGEMENT SYSTEM	SYM	SYMMETRICAL
EMT	ELECTRICAL METALLIC TUBING	SYM	SYMMETRICAL
EP	ELECTRIC PNEUMATIC EQUIPMENT	SYS	SYSTEM
ERGB	ELECTRICAL ROOM GROUND BAR	TEL	TELEPHONE
EWV	ELECTRIC WATER COOLER	TEL/ATA	TELEPHONE/ATA
EXIST	EXISTING	TERM	TERMINAL
EXH	EXHAUST	TGB	TELECOMMUNICATIONS GROUND BAR
EXP	EXPLOSION PROOF	TGMB	TELECOMMUNICATIONS MAIN GROUND BAR
EXTR	EXTERIOR	TIDF, IDF	TELECOMMUNICATIONS INTERMEDIATE DISTRIBUTION FRAME
FA	FIRE ALARM	TL	TWIST LOCK
FABP	FIRE ALARM BOOSTER POWER SUPPLY PANEL	TMDF	TELECOMMUNICATIONS MAIN DISTRIBUTION FRAM
FACP	FIRE ALARM CONTROL PANEL	TR	TAMPER RESISTANT
FCU	FAN COIL UNIT	T-STAT	THERMOSTAT
FIXT	FIXTURE	TTC	TELEPHONE TERMINAL CABINET
FLA	FULL LOAD AMPERES	TV	TELEVISION
FLR	FLOOR	TVT	TELEVISION TERMINAL CABINET
FLUOR	FLUORESCENT	TYC	TYPICAL
FT	FEET	UC	UNDER COUNTER
FU	FUSE	UE	UNDERGROUND ELECTRICAL
FUDS	FUSED SAFETY DISCONNECT SWITCH	UG	UNDERGROUND
G	GAUGE	UH	UNIT HEATER
GAL	GALLON	UJ	UNDERWRITERS LABORATORIES
GALV	GALVANIZED	UNO	UNLESS NOTED OTHERWISE
GC	GENERAL CONTRACTOR	UT	UNDERGROUND TELEPHONE
GEN	GENERATOR	UTIL	UTILITY
GFI/GFCI	GROUND FAULT CIRCUIT INTERRUPTER	UV	ULTRAVIOLET
GFP	GROUND FAULT PROTECTOR	V	VOLT
GND	GROUND	VA	VOLT-AMPERES
GRS	GALVANIZED RIGID STEEL (CONDUIT)	VDT	VIDEO DISPLAY TERMINAL
GPIB	GPIRUM BOARD	VERT	VERTICAL
H	HANDS-OFF-AUTOMATIC SWITCH	VFD	VARIABLE FREQUENCY DRIVE
HORIZ	HORIZONTAL	VOL	VOLUME
HP	HORSEPOWER	W	WATT
HFF	HIGH POWER FACTOR	WI	WITH
HT	HEIGHT	WG	WIRE GUARD
HTG	HEATING	WH	WATER HEATER
HTR	HEATER	WO	WITHOUT
HV	HIGH VOLTAGE	WP	WEATHERPROOF
HVAC	HEATING, VENTILATING AND AIR CONDITIONING	XFR	TRANSFER
IC	INTERRUPTING CAPACITY		
IEEE	INSTITUTE OF ELECTRICAL AND ELECTRONIC ENGINEERS		
IG	ISOLATED GROUND		
IMC	INTERMEDIATE METAL CONDUIT		
INCAND	INCANDESCENT		
IR	INFRARED		
IW	INTERLOCK WITH		
JBOX	JUNCTION BOX		
KCMIL	THOUSAND CIRCULAR MILS		
KV	KILOVOLT		
KVA	KILOVOLT-AMPERE		
KVAR	KILOVOLT-AMPERE REACTIVE		
KW	KILOWATT		
KWH	KILOWATT HOUR		
LOC	LOCATE OR LOCATION		
LS	LEXAN SHIELD		
LTG	LIGHT		
LTNG	LIGHTNING		
LV	LOW VOLTAGE		
MAX	MAXIMUM		
MAGS	MAGNETIC STARTER		
MC	MOMENTARY CONTACT		
MC	MECHANICAL CONTRACTOR		
MCA	MINIMUM CIRCUIT AMPACITY		

ELECTRICAL SYMBOL LEGEND

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	LIGHTING FIXTURES, TYPICAL, RECTANGULAR		SINGLE RECEPT.		TELEPHONE OUTLET
	FILLED CIRCLES INDICATE RECESSED, OPEN		DUPLEX RECEPT.		FLOOR TELEPHONE OUTLET
	CIRCLES INDICATE SURFACE		(DESIGNATES SPECIFIC MOUNTING HEIGHT)		VOICE/DATA OUTLET
	DIAGONAL LINE INDICATES LENSED		GFI DUPLEX RECEPT. (FEED THROUGH)		FLOOR DATA OUTLET
	OUTER DOTS INDICATE SUSPENDED		GFI WEATHERPROOF RECEPT.		CEILING DATA OUTLET
	LIGHTING FIXTURES, TYPICAL, ROUND		SPLIT DUPLEX RECEPT.		CEILING DATA OUTLET
	CENTER DOT INDICATES PENDANT		DUPLEX ISOLATED GROUND RECEPT.		MICROPHONE OUTLET
	CHEVRON INDICATES WALL WASH		DUPLEX RECEPT. ON EMERG. CIRCUIT		CEILING COMMUNICATION SPEAKER
	STRIP FIXTURE		FLOOR DUPLEX RECEPT.		CIRCUIT BREAKER
	WALL-MOUNTED FIXTURES, TYPICAL		CEILING DUPLEX RECEPT.		DOOR BELL
	EMERGENCY LIGHTING UNIT, CEILING-MOUNTED, INTEGRAL BATTERY		FOURPLEX RECEPT.		DOOR BUZZER
	EMERGENCY LIGHTING UNIT, CEILING-MOUNTED, REMOTE BATTERY		FOURPLEX RECEPT. ON EMERG. CIRCUIT		DOOR CHIME
	EMERGENCY LIGHTING UNIT, WALL-MOUNTED, INTEGRAL BATTERY		240V RECEPTACLE		DOOR SIGNAL
	EMERGENCY LIGHTING UNIT, WALL-MOUNTED, REMOTE BATTERY		RECEPT. ON CORD REEL		AUTO DOOR PUSH PAD
	EXIT LIGHT, CEILING-MOUNTED, SHADING AND ARROWS INDICATE FACES AND DIRECTION		SPECIAL RECEPT.		ELECTRIC STRIKE
	EXIT LIGHT, WALL-MOUNTED, SHADING AND ARROWS INDICATE FACES AND DIRECTION		JUNCTION BOX		MAGNETIC LOCK
	EXIT/TELU COMBO		FLOOR JUNCTION BOX		COMBINATION LOCK
	POLE/AREA LIGHTS		CEILING JUNCTION BOX		DOOR CONTACT
	POST-TOP AREA LIGHT		MULTIOUTLET ASSEMBLY		CAR READER
	BOLLARD LIGHT		EXIT LIGHT, CEILING-MOUNTED, SHADING AND ARROWS INDICATE FACES AND DIRECTION		SECURITY KEYPAD
	DIAGONAL HATCH INDICATES LIGHT ON A CRITICAL CIRCUIT		EXIT LIGHT, WALL-MOUNTED, SHADING AND ARROWS INDICATE FACES AND DIRECTION		MOTION DETECTOR
	SIMILAR		EXIT LIGHT, WALL-MOUNTED, SHADING AND ARROWS INDICATE FACES AND DIRECTION		NURSE CALL EMERG. STATION
	SOLID HATCH INDICATES LIGHT ON AN EMERGENCY OR LIFE SAFETY CIRCUIT		EXIT LIGHT, WALL-MOUNTED, SHADING AND ARROWS INDICATE FACES AND DIRECTION		NURSE CALL CODE BLUE STATION
	CEILING OCCUPANCY SENSOR		EXIT LIGHT, WALL-MOUNTED, SHADING AND ARROWS INDICATE FACES AND DIRECTION		NURSE CALL DUTY STATION
	CEILING VACANCY SENSOR		EXIT LIGHT, WALL-MOUNTED, SHADING AND ARROWS INDICATE FACES AND DIRECTION		NURSE CALL STAFF STATION
	SINGLE POLE SWITCH		EXIT LIGHT, WALL-MOUNTED, SHADING AND ARROWS INDICATE FACES AND DIRECTION		NURSE CALL PATIENT STATION
	3-WAY SWITCH		EXIT LIGHT, WALL-MOUNTED, SHADING AND ARROWS INDICATE FACES AND DIRECTION		NURSE CALL DOME LIGHT (1-COLOR)
	4-WAY SWITCH		EXIT LIGHT, WALL-MOUNTED, SHADING AND ARROWS INDICATE FACES AND DIRECTION		NURSE CALL DOME LIGHT (4-COLORS)
	KEYED SWITCH		EXIT LIGHT, WALL-MOUNTED, SHADING AND ARROWS INDICATE FACES AND DIRECTION		CLOCK SPEAKER COMBO
	KEYED SWITCH		EXIT LIGHT, WALL-MOUNTED, SHADING AND ARROWS INDICATE FACES AND DIRECTION		DENOTES REQUIRED DATA DROP
	SWITCH W/PILOT		EXIT LIGHT, WALL-MOUNTED, SHADING AND ARROWS INDICATE FACES AND DIRECTION		WIRELESS ACCESS POINT CLG
	DIMMER SWITCH		EXIT LIGHT, WALL-MOUNTED, SHADING AND ARROWS INDICATE FACES AND DIRECTION		SECURITY CAMERA
	OCCUPANCY SENSOR W/ MANUAL SWITCH		EXIT LIGHT, WALL-MOUNTED, SHADING AND ARROWS INDICATE FACES AND DIRECTION		REQUEST TO EXIT
	PANIC SWITCH		EXIT LIGHT, WALL-MOUNTED, SHADING AND ARROWS INDICATE FACES AND DIRECTION		ELECTRIC LATCH RETRACT
	TIMER SWITCH		EXIT LIGHT, WALL-MOUNTED, SHADING AND ARROWS INDICATE FACES AND DIRECTION		RELAY
	TIME CONTROL SWITCH		EXIT LIGHT, WALL-MOUNTED, SHADING AND ARROWS INDICATE FACES AND DIRECTION		PUSH BUTTON
	FIRE ALARM GRAPHICS ANNUNCIATOR		EXIT LIGHT, WALL-MOUNTED, SHADING AND ARROWS INDICATE FACES AND DIRECTION		RELAY
	REMOTE TEST SWITCH		EXIT LIGHT, WALL-MOUNTED, SHADING AND ARROWS INDICATE FACES AND DIRECTION		RELAY
	ANSUL SYSTEM		EXIT LIGHT, WALL-MOUNTED, SHADING AND ARROWS INDICATE FACES AND DIRECTION		RELAY
	FIRE ALARM ANNUNCIATOR		EXIT LIGHT, WALL-MOUNTED, SHADING AND ARROWS INDICATE FACES AND DIRECTION		RELAY
	FIRE ALARM CONTROL PANEL		EXIT LIGHT, WALL-MOUNTED, SHADING AND ARROWS INDICATE FACES AND DIRECTION		RELAY
	FIRE ALARM PULL STATION		EXIT LIGHT, WALL-MOUNTED, SHADING AND ARROWS INDICATE FACES AND DIRECTION		RELAY
	STROBE WALL MOUNT		EXIT LIGHT, WALL-MOUNTED, SHADING AND ARROWS INDICATE FACES AND DIRECTION		RELAY
	HORN/STROBE WALL MOUNT		EXIT LIGHT, WALL-MOUNTED, SHADING AND ARROWS INDICATE FACES AND DIRECTION		RELAY
	VOICE/SPEAKER STROBE WALL MOUNT		EXIT LIGHT, WALL-MOUNTED, SHADING AND ARROWS INDICATE FACES AND DIRECTION		RELAY
	FIRE ALARM BELL		EXIT LIGHT, WALL-MOUNTED, SHADING AND ARROWS INDICATE FACES AND DIRECTION		RELAY
	VOICE/SPEAKER STROBE CEILING		EXIT LIGHT, WALL-MOUNTED, SHADING AND ARROWS INDICATE FACES AND DIRECTION		RELAY
	VOICE EVAC. SPEAKER CEILING		EXIT LIGHT, WALL-MOUNTED, SHADING AND ARROWS INDICATE FACES AND DIRECTION		RELAY
	STROBE CEILING		EXIT LIGHT, WALL-MOUNTED, SHADING AND ARROWS INDICATE FACES AND DIRECTION		RELAY
	FIRE ALARM DOOR CLOSER		EXIT LIGHT, WALL-MOUNTED, SHADING AND ARROWS INDICATE FACES AND DIRECTION		RELAY
	FIRE ALARM SHUT DOWN RELAY		EXIT LIGHT, WALL-MOUNTED, SHADING AND ARROWS INDICATE FACES AND DIRECTION		RELAY
	DOOR HOLDER		EXIT LIGHT, WALL-MOUNTED, SHADING AND ARROWS INDICATE FACES AND DIRECTION		RELAY
	CARBON MONOXIDE DETECTOR WALL MOUNT		EXIT LIGHT, WALL-MOUNTED, SHADING AND ARROWS INDICATE FACES AND DIRECTION		RELAY
	CARBON MONOXIDE DETECTOR CEILING		EXIT LIGHT, WALL-MOUNTED, SHADING AND ARROWS INDICATE FACES AND DIRECTION		RELAY
	THERMAL DETECTOR		EXIT LIGHT, WALL-MOUNTED, SHADING AND ARROWS INDICATE FACES AND DIRECTION		RELAY
	DUCT SMOKE DETECTOR		EXIT LIGHT, WALL-MOUNTED, SHADING AND ARROWS INDICATE FACES AND DIRECTION		RELAY
	SMOKE DETECTOR CEILING		EXIT LIGHT, WALL-MOUNTED, SHADING AND ARROWS INDICATE FACES AND DIRECTION		RELAY
	BEAM SMOKE DETECTOR		EXIT LIGHT, WALL-MOUNTED, SHADING AND ARROWS INDICATE FACES AND DIRECTION		RELAY
	SPRINKLER FLOW SWITCH		EXIT LIGHT, WALL-MOUNTED, SHADING AND ARROWS INDICATE FACES AND DIRECTION		RELAY
	SPRINKLER VALVE TAMPER SWITCH		EXIT LIGHT, WALL-MOUNTED, SHADING AND ARROWS INDICATE FACES AND DIRECTION		RELAY

ELECTRICAL SYMBOL NOTES

LIGHTING FIXTURE TAG DESCRIPTORS:
 TOP VALUE: FIXTURE TYPE ID
 BOTTOM VALUE: NUMBER, CIRCUIT NUMBER, REFER TO DRAWINGS FOR PANEL DESIGNATION.
 ABSENCE OF A SWITCH ID INDICATES FIXTURE IS CONTROLLED BY THE ONLY SWITCH IN THE SPACE.
 "X" IN PLACE OF THE SWITCH ID INDICATES NIGHT LIGHT, UNSWITCHED.

EXIT LIGHTS: STEM INDICATES WALL MOUNTING, NO STEM INDICATES CEILING MOUNTING. SHADED AREA INDICATES ILLUMINATED FACE(S). ARROW INDICATES DIRECTIONAL ARROW ON ILLUMINATED FACE(S). THE CIRCUIT DESIGNATION IS INDICATED BY A NUMBER. EXAMPLE: THE WALL MOUNTED EXIT LIGHT TYPE "E1" WITH SINGLE FACE AND DIRECTIONAL ARROW IS CONNECTED TO CIRCUIT "1".

DEVICES: THE CIRCUIT DESIGNATION IS INDICATED BY A NUMBER. THE SWITCH DESIGNATION IS INDICATED BY A LOWER CASE LETTER. EXAMPLE: SPLIT DUPLEX RECEPTACLE IS CONNECTED TO CIRCUIT "1" AND ONE RECEPTACLE OUTLET IS CONTROLLED BY SWITCH "A".

THE CONTROL DEVICE DESIGNATION IS INDICATED BY A LOWER CASE LETTER. EXAMPLE: SINGLE POLE SWITCH "G" TO CONTROL LIGHTING FIXTURES INDICATED BY "G".

WALL BOX DIMMER WITH SIZE AS INDICATED AT DEVICE. EXAMPLE: 800 WATT WALL BOX DIMMER TO CONTROL LIGHTING FIXTURES INDICATED BY "G". SEE SPECIFICATIONS FOR WATTAGE IF NOT INDICATED.

SPECIAL CONNECTIONS: THE EQUIPMENT IS INDICATED BY A NUMBER IN A CIRCLE. SEE THE MOTOR AND EQUIPMENT SCHEDULE FOR THE LOAD DESCRIPTION AND TYPE OF CONNECTION. THE CIRCUIT DESIGNATION IS INDICATED BY NUMBER(S) ADJACENT TO THE SYMBOL. EXAMPLE: EQUIPMENT NO. ELEC-1 1 PHASE CONNECTION TO CIRCUITS 2, 4.

PANELBOARDS: PANELBOARD DOORS MAY BE SHOWN TO INDICATE OPENING SIDE OF RECESSED PANELBOARDS. SEE PANELBOARD IDENTIFICATION FOR DESIGNATION CODES.

FLOOR CLEARANCE AREA

MOTOR CONNECTIONS: THE MOTOR IS INDICATED BY A NUMBER WITHIN OR CHARACTERS ADJACENT TO THE MOTOR SYMBOL. SEE THE MOTOR AND EQUIPMENT SCHEDULE FOR THE MOTOR DESCRIPTION AND ELECTRICAL REQUIREMENTS.

TRANSFORMERS: THE TRANSFORMER TYPE IS INDICATED BY A NUMBER FOLLOWING THE UPPER CASE LETTER "T". SEE THE TRANSFORMER SCHEDULE OR THE SINGLE LINE DIAGRAM FOR THE TRANSFORMER DESCRIPTION AND REQUIREMENTS. EXAMPLE: TRANSFORMER TYPE "T1".

CONDUIT IN CEILING, FLOOR OR WALL AS REQUIRED BY FIELD CONDITIONS

CONDUIT IN FLOOR

CONDUIT SHOWN WITHOUT SLASH MARKS SHALL CONTAIN 1 # 12 CONDUCTOR PER PHASE, NEUTRAL, AND GROUND IN 1/2" CONDUIT UNLESS SPECIFIC EQUIPMENT REQUIRES A DIFFERENT SIZE.

CONDUIT SHOWN WITH SLASH MARKS SHALL CONTAIN 1 # 10 CONDUCTOR PER PHASE IN ELECTRICAL CODE SIZED MINIMUM CONDUIT UNLESS CONDUIT AND CONDUIT SIZE IS SHOWN ADJACENT.

HOME RUN TO BRANCH CIRCUIT PANELBOARD. THE PANELBOARD DESIGNATION IS SHOWN ADJACENT TO THE HOME RUN ARROW AS A NUMERATOR AND THE CIRCUIT DESIGNATION IS SHOWN AS THE DENOMINATOR. CIRCUIT BREAKER SIZES (AMPS/NUMBER OF POLES) ARE SHOWN IN THE PANELBOARD SCHEDULE WITH THE CORRESPONDING PANELBOARD AND CIRCUIT DESIGNATION. EXAMPLE: HOME RUN TO PANELBOARD PAN-102; CIRCUITS 1, 3, 5.

GRAPHICAL REPRESENTATION OF PHASING, TYPICAL FOR ALL SYMBOLS.

EXISTING TO REMAIN

EXISTING TO BE REMOVED

NEW

AREA NOT IN CONTRACT

REVISION NUMBER - SHOWN ON PLANS

NUMBER OF DETAIL ON SHEET

NUMBER OF SHEET WHERE DETAIL APPEARS

KEYED NOTE (SEE SCHEDULE)

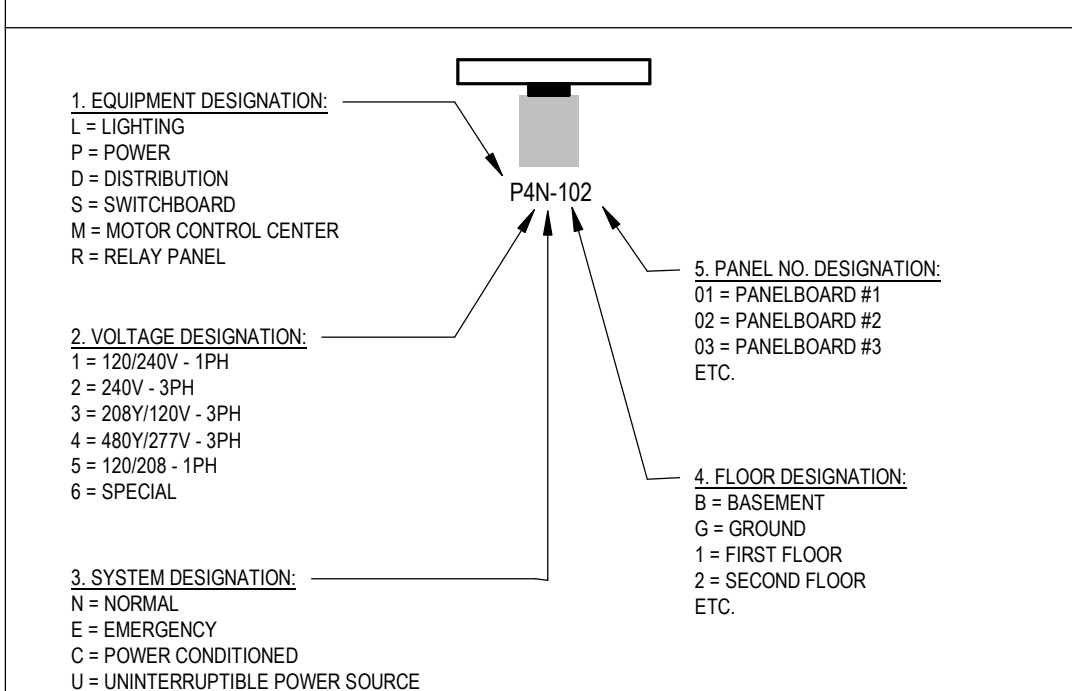
DEMOLITION KEYNOTE

ROOM NAME AND NUMBER

POINT OF CONNECTION

POINT OF DISCONNECTION

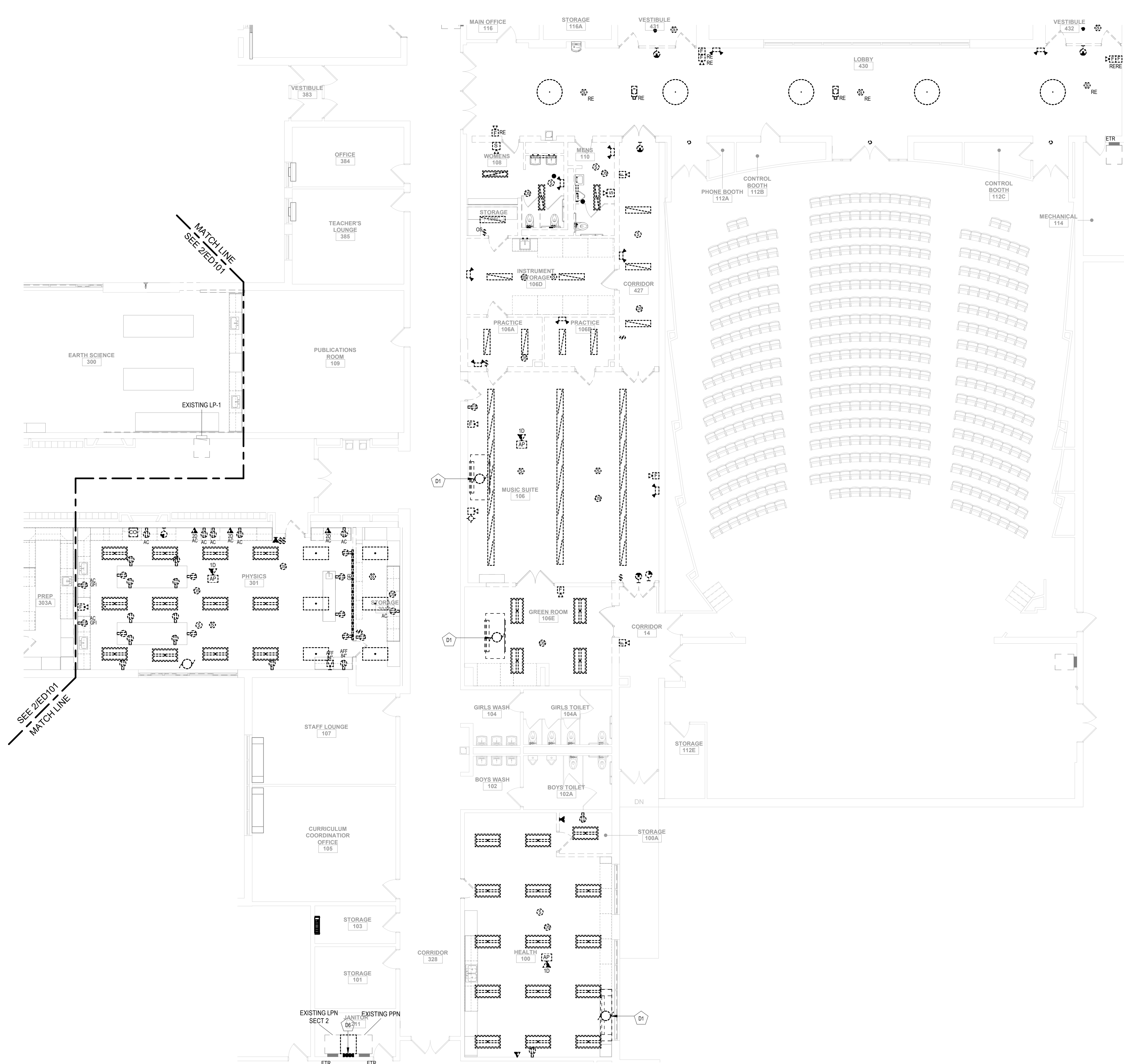
PANELBOARD IDENTIFICATION



ELECTRICAL GENERAL NOTES

- THE PRIME CONTRACTORS ARE MUTUALLY RESPONSIBLE FOR COORDINATING THEIR WORK WITH THE WORK OF THE OTHER PRIME CONTRACTORS AND THAT OF THE OWNER AS OUTLINED IN THE GENERAL CONDITIONS OF THE CONSTRUCTION CONTRACT AND THE SUPPLEMENTARY CONDITIONS. COORDINATE EXISTING SYSTEM SHUT DOWNS IN ADVANCE WITH THE OWNER.
- CONTRACT DRAWINGS AND SPECIFICATIONS ARE COMPLEMENTARY AND MUST BE SO CONSTRUED TO DETERMINE THE FULL SCOPE OF WORK. REFERENCES TO CODES, SPECIFICATIONS, AND STANDARDS CALLED FOR IN THE SPECIFICATION SECTIONS AND ON THE DRAWINGS MEAN, THE LATEST EDITION, AMENDMENT, AND REVISION OF SUCH REFERENCED STANDARD / CODE IN EFFECT ON THE DATE OF THESE CONTRACT DOCUMENTS.
- THE CONTRACT DRAWINGS ARE, IN PART, DIAGRAMMATIC AND ARE INTENDED TO CONVEY THE GENERAL SCOPE AND INTENT OF THE WORK AS WELL AS INDICATE THE GENERAL ARRANGEMENT OF THE EQUIPMENT. THE CONTRACTOR IS TO COMPLY WITH THE DRAWINGS FOR GENERAL LAYOUT OF THE WORK AND IF THERE ARE DISCREPANCIES, THE CONTRACTOR IS TO NOTIFY THE ARCHITECT/ENGINEER IMMEDIATELY. PROVIDE ALL RELATED ACCESSORIES REQUIRED FOR A COMPLETE OPERATIONAL AND SATISFACTORY INSTALLATION REQUIRED FOR CONTINUOUS USE BY OWNER. NOT ALL DEVICES TERMINATIONS, JUNCTION BOXES, AND WIRING HAVE BEEN SHOWN FOR DRAWING CLARITY.
- REASONABLE CHANGES REQUIRED BY JOB CONDITIONS (INCLUDING OFFSETTING OF CONDUITS AROUND BEAMS, ETC.) SHALL BE MADE, AFTER OBTAINING THE ENGINEER'S APPROVAL, AT NO ADDITIONAL COST TO THE OWNER. OBTAIN WRITTEN AUTHORIZATION FROM PROJECT STRUCTURAL ENGINEER PRIOR TO PENETRATING OR CUTTING ANY STRUCTURAL COMPONENTS.
- COORDINATE ELECTRICAL WORK, PHASING AND POWER OUTAGES WITH OWNER AND OTHER TRADES PRIOR TO THE START OF CONSTRUCTION. IT IS A REQUIREMENT OF THE PROJECT THAT THE CONSTRUCTION WORK BE PHASED TO FACILITATE MINIMUM IMPACT TO THE NORMAL OPERATION OF THE FACILITY. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO THOROUGHLY REVIEW THE GENERAL CONDITIONS AND SECTION 01 000 MILESTONE SCHEDULE FOR THE PHASING REQUIREMENTS. CONTRACTOR SHALL TEST ALL ELECTRICAL SYSTEMS TO BE MODIFIED TO ESTABLISH BASE LINE OPERATING CONDITIONS.
- COORDINATE EXACT LOCATION OF ALL CONDUIT ROUTES, EQUIPMENT, AND DEVICES WITH EXISTING CONDITIONS PRIOR TO CONSTRUCTION. COORDINATE ARRANGEMENT, MOUNTING, AND SUPPORT OF ELECTRICAL CONDUITS TO ALLOW MAXIMUM POSSIBLE HEADROOM IN THE CEILING CAVITIES. MINIMUM CONDUIT SIZE SHALL BE "1" FOR TELECOMMUNICATIONS AND "3/4" FOR ALL OTHER CIRCUITS. PROVIDE NYLON PULL STRING IN ALL EMPTY SPARE CONDUITS.
- ALL NEW DEVICES TO BE INSTALLED IN SURFACE RACEWAY AND BOXES ON EXISTING NON-FISHABLE CONSTRUCTION, AND TO BE RECESSED IN NEW OR FISHABLE EXISTING CONSTRUCTION, WHEREVER POSSIBLE. REUSE EXISTING CONDUIT, RACEWAY, AND BACK BOXES IF IN GOOD CONDITION. EXTEND / INSTALL NEW CONDUIT / RACEWAY AS REQUIRED FOR PROPER MOUNTING OF DEVICES. CONCEAL ABOVE CEILING OR WITHIN WALLS WHERE POSSIBLE.
- IN EXISTING CONSTRUCTION, ROUTE SURFACE RACEWAY AS FOLLOWS: LOCATE VERTICAL RUNS IN CORN

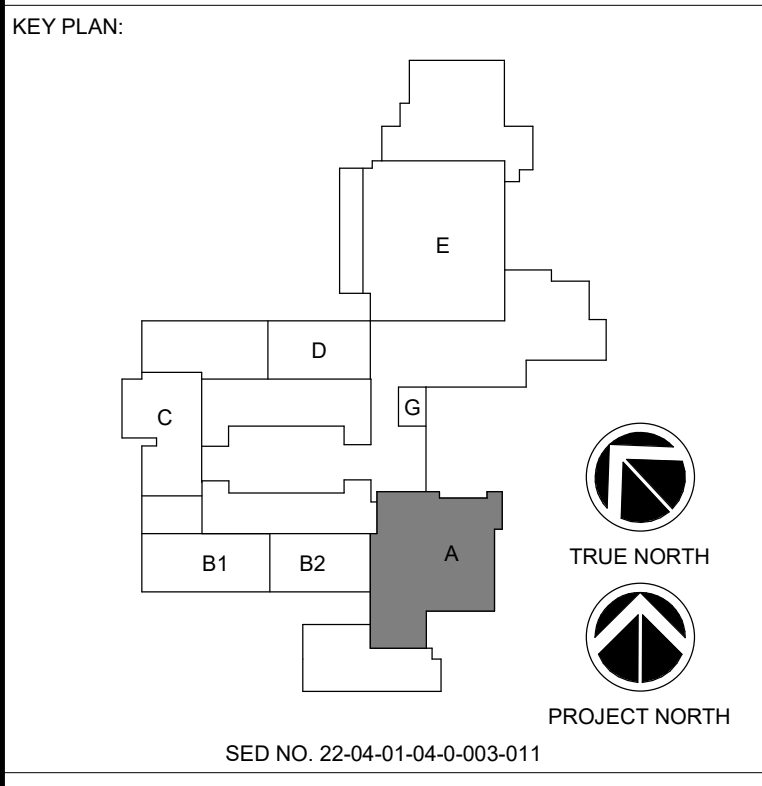
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1 ELECTRICAL DEMOLITION PLAN - FIRST FLOOR AREA A
SCALE: 1/8" = 1'-0"

GENERAL NOTES:
1. SEE DRAWING ES000 FOR APPLICABLE GENERAL NOTES, ABBREVIATIONS, SYMBOLS AND LEGENDS

- DEMOLITION KEYNOTE LEGEND**
- D1 DISCONNECT AND REMOVE POWER CONNECTIONS HVAC UNIT. PULL BACK FEEDERS BACK TO SOURCE. LABEL BREAKER AS SPARE.
 - D6 REPLACE EXISTING 30 CIRCUIT PANEL WITH A NEW 42 CIRCUIT PANEL. EC TO DISCONNECT AND REMOVE EXISTING SURFACE PANEL. TAG FEEDERS AND BRANCH CIRCUIT WIRING FOR REUSE. TRIM BACK ALL CONDUITS AS REQUIRED FOR INSTALLATION OF NEW PANEL.



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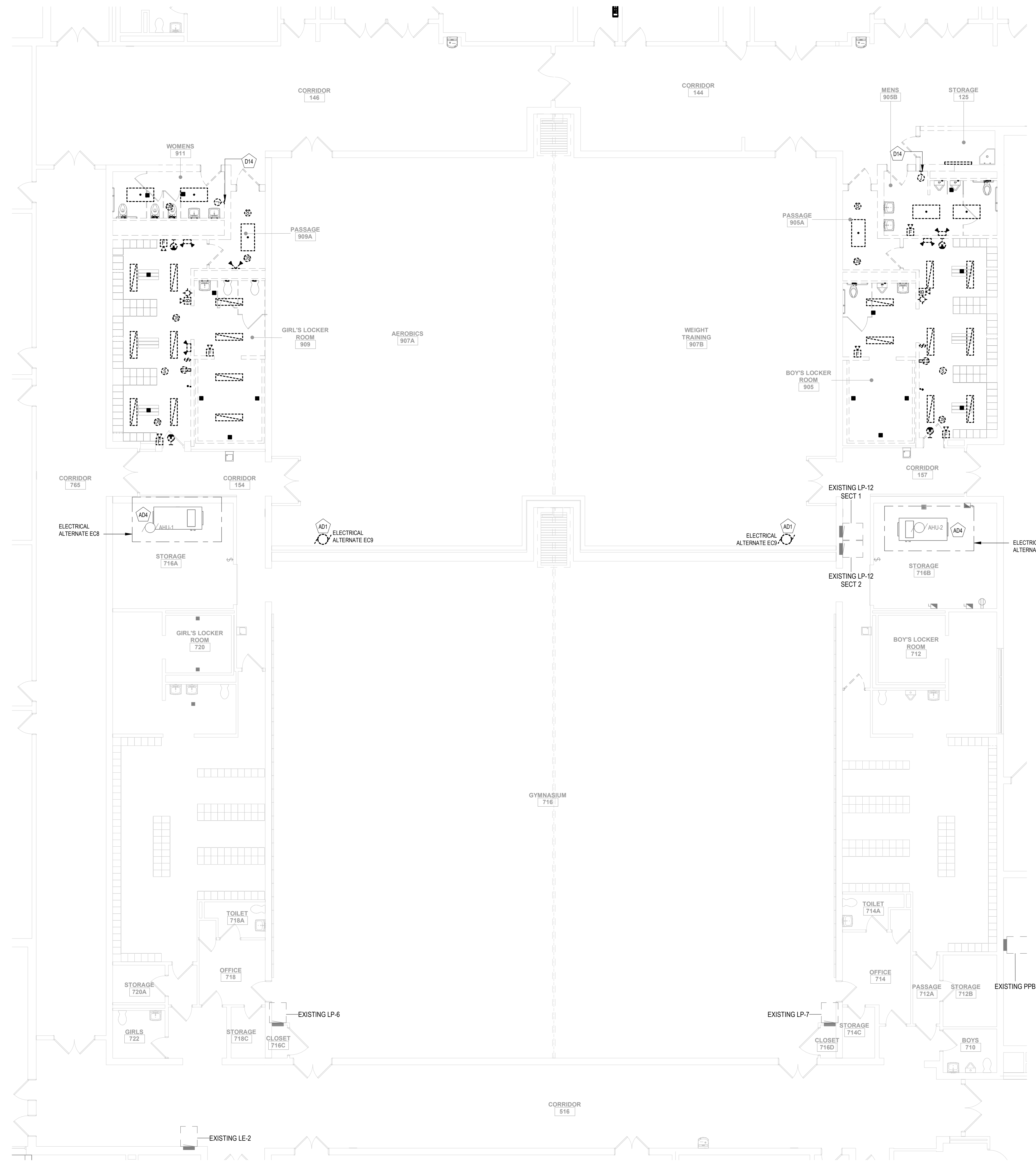
REV	DATE	DESCRIPTION

DRAWN BY MAH / TMF	PROJECT NUMBER 2023-105
CHECKED BY SGV	DATE 12/16/2024

ELECTRICAL DEMOLITION PLAN - FIRST FLOOR AREA A

BUILDING NUMBER HS	SHEET NUMBER ED100 BID
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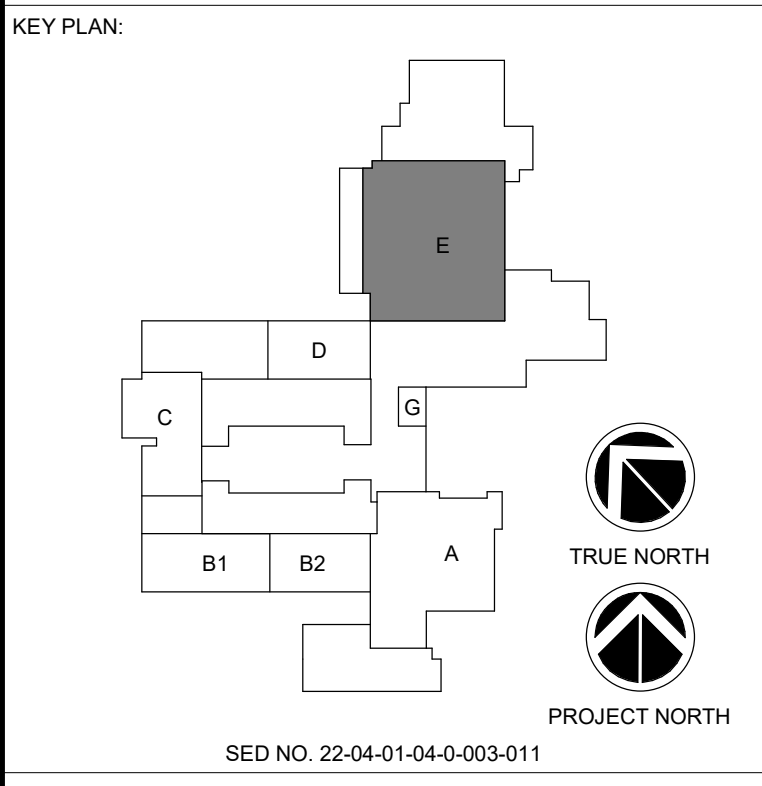


1 ELECTRICAL DEMOLITION PLAN - FIRST FLOOR AREA E
SCALE: 1/8" = 1'-0"

GENERAL NOTES:
1. SEE DRAWING ES000 FOR APPLICABLE GENERAL NOTES, ABBREVIATIONS, SYMBOLS AND LEGENDS

DEMOLITION KEYNOTE LEGEND
D14 DISCONNECT AND REMOVE POWER CONNECTION TO HAND DRYER AS INDICATED. PULL BACK FEEDERS TO SOURCE.

DEMO KEYNOTE LEGEND (ALT)
AD1 DISCONNECT AND REMOVE POWER CONNECTION TO AIR HANDLING UNITS. REMOVE FEEDERS BACK TO SOURCE.
AD4 DISCONNECT EXISTING HVAC UNIT AND TAG CIRCUIT FOR REUSE. RE-CONNECT EXISTING CIRCUIT TO UNIT AFTER IT IS REINSTALLED.



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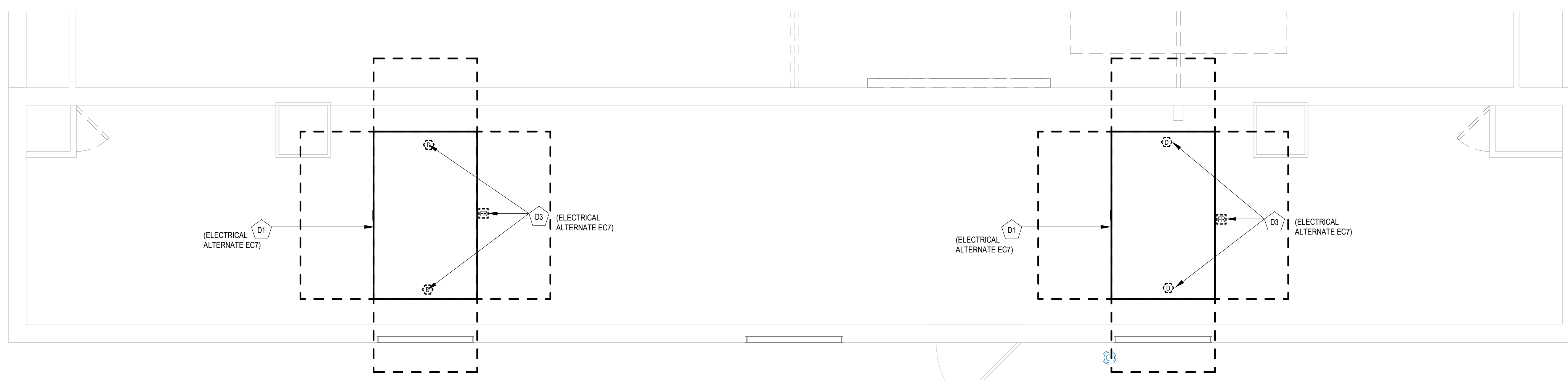
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REV	DATE	DESCRIPTION

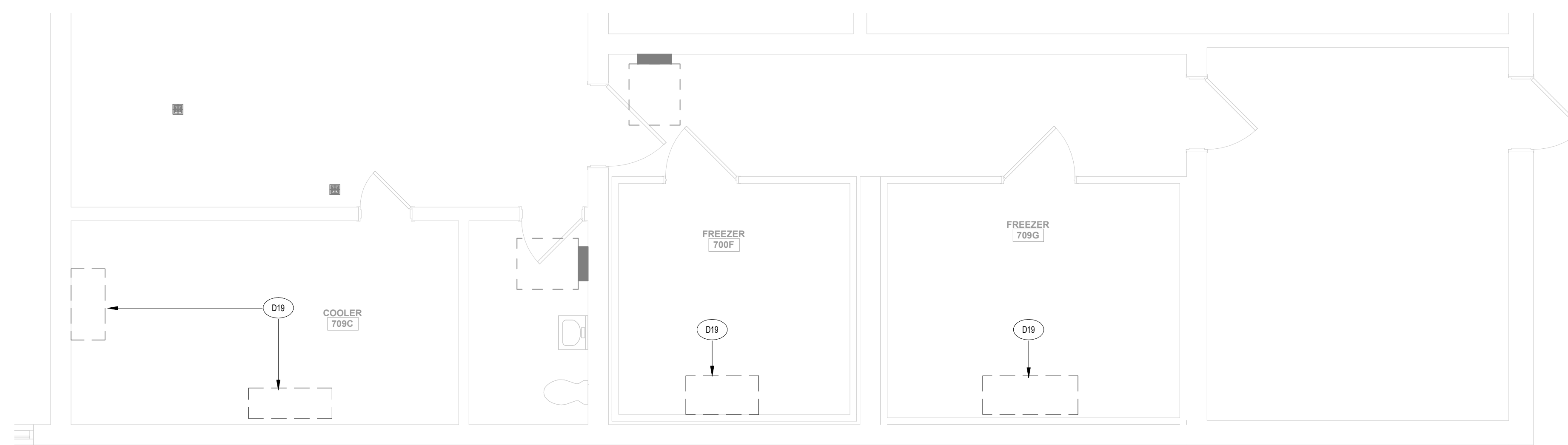
DRAWN BY MAH / TMF	PROJECT NUMBER 2023-105
CHECKED BY SGV	DATE 12/16/2024

ELECTRICAL DEMOLITION PLAN - FIRST FLOOR AREA E

BUILDING NUMBER HS	SHEET NUMBER ED103 BID
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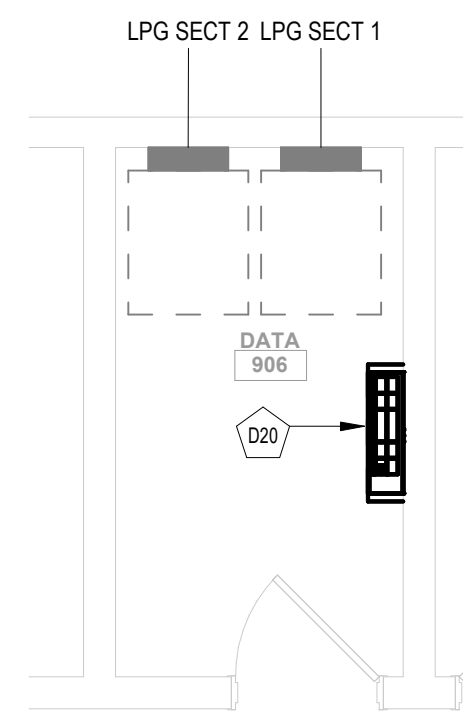
1 ELECTRICAL DEMOLITION PLAN - GYMNASIUM 716 MEZZANINE
SCALE: 1/4" = 1'-0"



2 ELECTRICAL DEMOLITION PLAN - ENLARGED KITCHEN PART PLAN
SCALE: 1/4" = 1'-0"



3 ELECTRICAL DEMOLITION PLAN - ENLARGED DATA 121A PART PLAN
SCALE: 1/4" = 1'-0"



4 ELECTRICAL DEMOLITION PLAN - ENLARGED DATA 906 PART PLAN
SCALE: 1/4" = 1'-0"

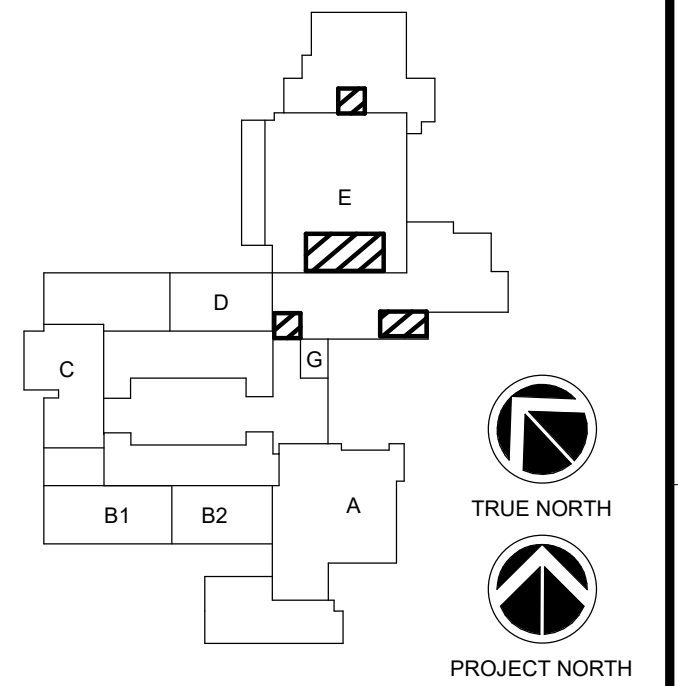
GENERAL NOTES:

- SEE DRAWING ES000 FOR APPLICABLE GENERAL NOTES, ABBREVIATIONS, SYMBOLS AND LEGENDS

DEMOLITION KEYNOTE LEGEND

- D1 DISCONNECT AND REMOVE POWER CONNECTIONS HVAC UNIT. PULL BACK FEEDERS BACK TO SOURCE. LABEL BREAKER AS SPARE.
- D3 DISCONNECT AND REMOVE FIRE ALARM SHUTDOWN RELAY AND DUCT DETECTORS. PULL BACK FEEDERS TO SOURCE.
- D19 DISCONNECT AND REMOVE POWER CONNECTION TO COOLER/FREEZER EVAPORATORS. SAVE FEEDERS FOR RE-USE.
- D20 DISCONNECT AND REMOVE POWER CONNECTION TO SPLIT SYSTEM UNIT. SAVE FEEDERS FOR RE-USE.

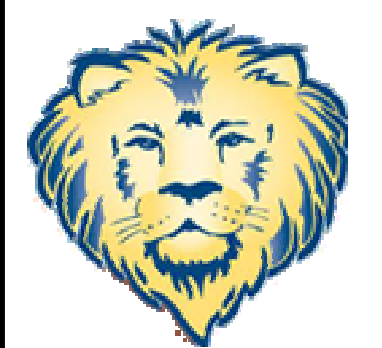
KEY PLAN:



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REV	DATE	DESCRIPTION

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CHECKED BY SGV	DATE 12/16/2024

ELECTRICAL DEMOLITION PLANS - ENLARGED PART PLANS

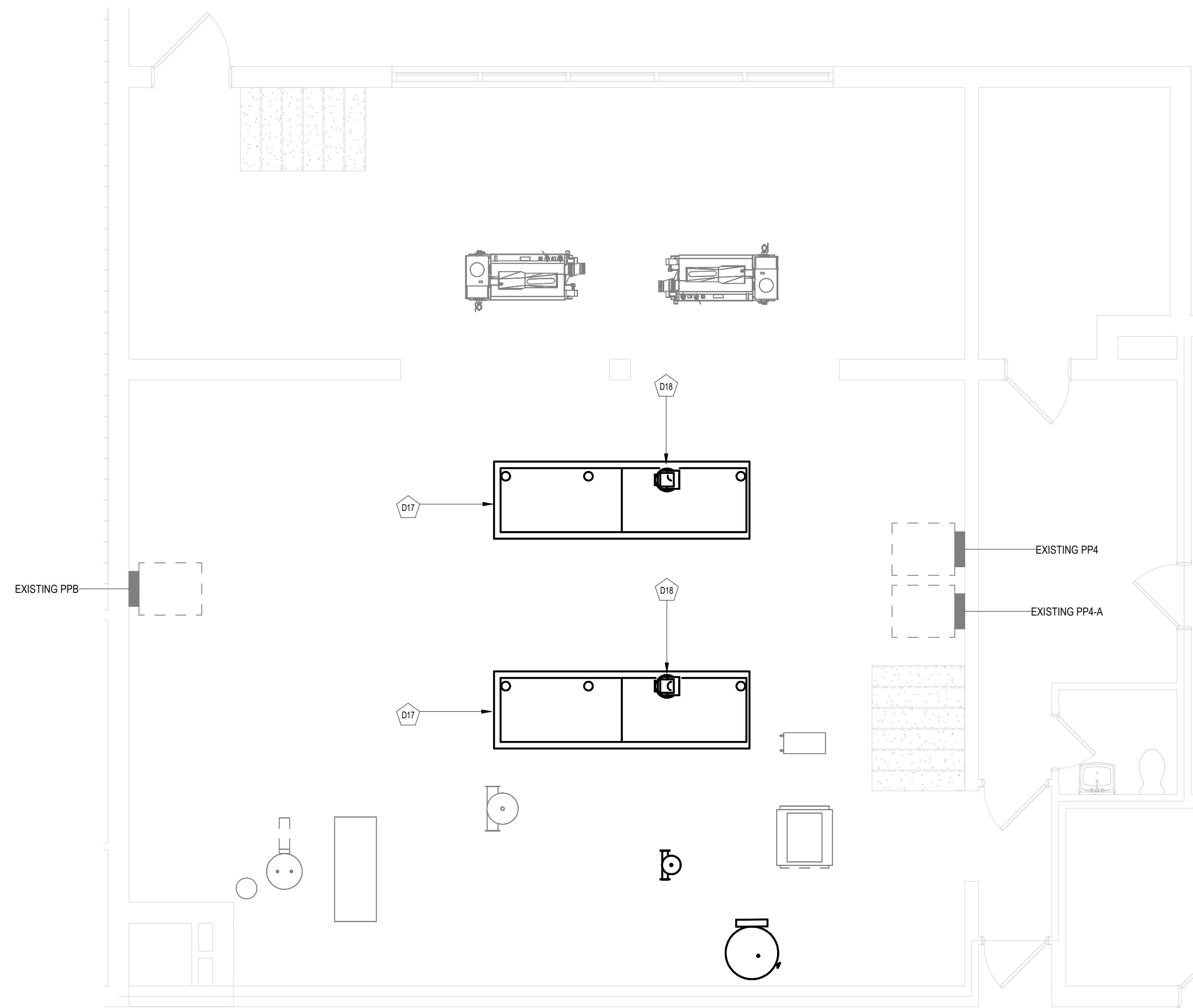
BUILDING NUMBER HS	SHEET NUMBER ED104 BID
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GENERAL NOTES:

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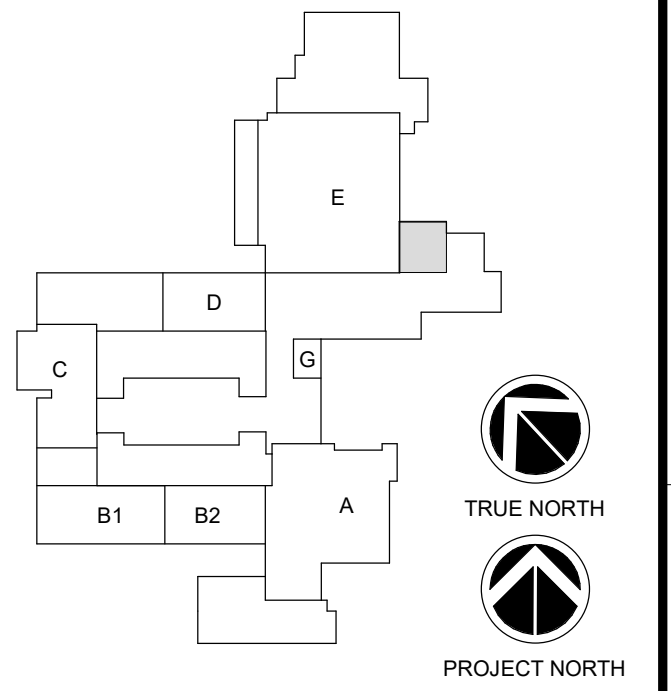
DEMOLITION KEYNOTE LEGEND

D17 DISCONNECT AND REMOVE POWER CONNECTION TO BOILER SCHEDULED FOR REMOVAL. PULL FEEDERS BACK TO SOURCE.
 D18 DISCONNECT AND REMOVE POWER CONNECTION TO IN-LINE BOILER PUMP SCHEDULED FOR REMOVAL. PULL FEEDERS BACK TO SOURCE.



1 ELECTRICAL DEMOLITION PLAN - ENLARGED BOILER ROOM PLAN
 SCALE: 1/4" = 1'-0"

KEY PLAN:



SED NO. 22-04-01-04-0-003-011

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ELECTRICAL DEMOLITION PLAN - ENLARGED BOILER ROOM PLAN

BUILDING NUMBER HS	SHEET NUMBER ED105 BID
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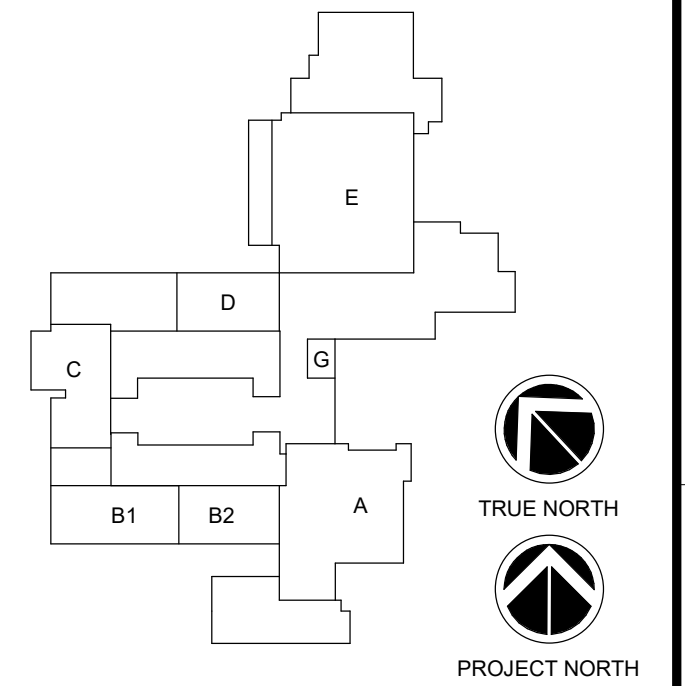
GENERAL NOTES:

- SEE DRAWING ES000 FOR APPLICABLE GENERAL NOTES, ABBREVIATIONS, SYMBOLS AND LEGENDS

DEMOLITION KEYNOTE LEGEND

- D1 DISCONNECT AND REMOVE POWER CONNECTIONS HVAC UNIT. PULL BACK FEEDERS BACK TO SOURCE. LABEL BREAKER AS SPARE.

KEY PLAN:



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REV	DATE	DESCRIPTION

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ELECTRICAL DEMOLITION PLAN - ROOF

BUILDING NUMBER HS	SHEET NUMBER ED106 BID
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1 ELECTRICAL DEMOLITION PLAN - ROOF
SCALE: 1/32" = 1'-0"

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ELECTRICAL EQUIPMENT CONNECTION SCHEDULE																									
ID	LOCATION			EQUIPMENT INFORMATION					CIRCUIT INFORMATION					MOTOR STARTER				DISCONNECT				FIRE ALARM FAN SHUT-DOWN	DUCT MOUNTED SMOKE DETECTOR(S)	SCHEDULE NOTES	ID
	NAME	NO.	NO.	POWER	FLA	MCA	BREAKER SIZE	VOLT	PH	PANEL	NO.	WIRE & CONDUIT SIZE	DESCRIPTION	NEMA ENCLOSURE	FURNISH	INSTALL	LOCATION	DESCRIPTION	NEMA ENCLOSURE	FURNISH	LOCATION				
EF-1	MECHANICAL RM	114	1	0.50hp	9.8 A	12.3 A	20.0 A	120 V	1	PP5	1	2#10,#10G,1/2"	DIV. 23 - ELECTRICALLY COMMUTATED MOTOR	3R	MANUF.	MANUF.	AT UNIT	DIV. 23 - INTEGRAL	3R	MANUF.	AT UNIT	(none)	(none)	1,2,3,5,6,8	EF-1
UH-1	MECHANICAL RM	114	0	0.00hp	0.8 A	1.0 A	15.0 A	120 V	1	PP5	1	2#10,#10G,1/2"	MANUF. - SINGLE POINT POWER	3R	MANUF.	MANUF.	AT UNIT	DIV. 26 - TOGGLE	3R	MANUF.	AT UNIT	(none)	(none)	1,2,3,5	UH-1

GENERAL EQUIPMENT CONNECTION SCHEDULE NOTES:

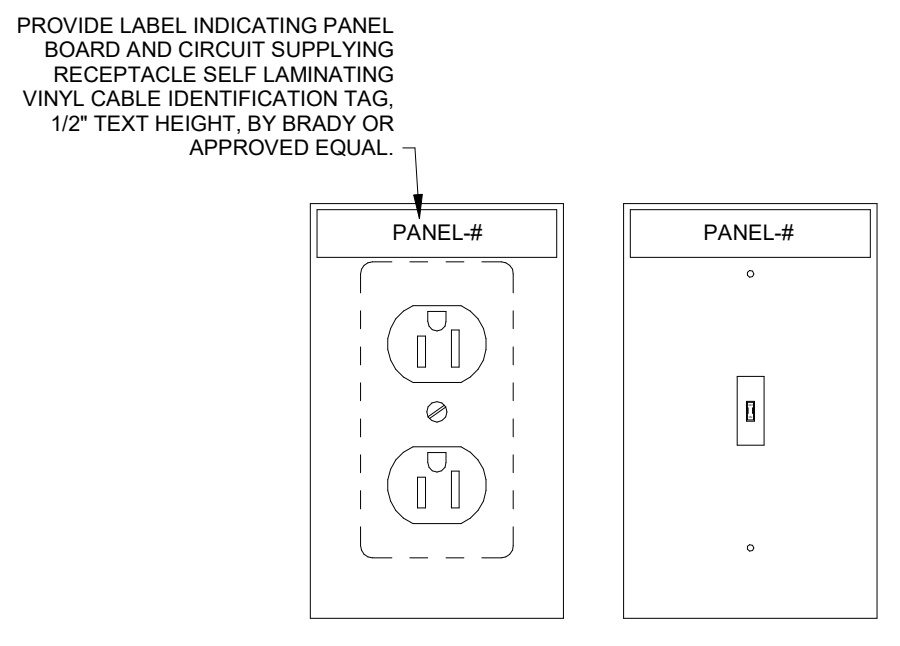
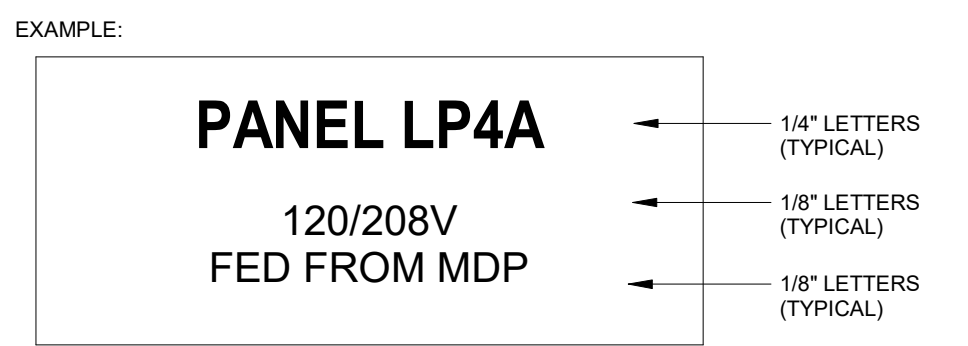
- PROVIDE OVERLOAD HEATERS FOR ALL MOTOR STARTERS. SIZE OVERLOADS IN FIELD PER ACTUAL FURNISHED MOTOR NAMEPLATE DATA.
- FOR BID PURPOSES, SIZE MOTOR STARTERS BASED ON HP/MCA/KW VALUES INDICATED. PROVIDE MOTOR STARTERS PROPERLY SIZED PER APPROVED SUBMITTALS AND COORDINATION DRAWINGS FURNISHED DURING CONSTRUCTION.
- COORDINATE IN FIELD WITH INDIVIDUAL TRADES FOR EQUIPMENT SUBSTITUTIONS. WHERE SUBSTITUTIONS (FROM THE BASIS OF DESIGN) HAVE BEEN MADE, COORDINATE ANY AND ALL CHANGES OF VOLTAGE, MCA, AND HP WITH THE RELEVANT CONTRACTOR. THE EC IS RESPONSIBLE FOR ANY DESIGN WORK AND ALL RESIZING OF FEEDERS, BRANCH CIRCUITS, OVER-CURRENT PROTECTION, AND STARTER / DISCONNECT SIZING CHANGES THAT RESULT FROM SUCH EQUIPMENT SUBSTITUTIONS. ALL CONSTRUCTION COST CHANGES ASSOCIATED WITH EQUIPMENT SUBSTITUTIONS, AS MENTIONED HEREIN, ARE SOLELY THE RESPONSIBILITY OF THE CONTRACTOR SUPPLYING THE SUBSTITUTED EQUIPMENT. ALL ASSOCIATED REDESIGN, REVISIONS, AND MODIFICATIONS ARE TO BE DONE AT NO ADDITIONAL COST TO THE OWNER, ARCHITECT, OR ENGINEER.
- ALL NEW DUCT SMOKE DETECTORS INDICATED ARE TO BE FURNISHED, INSTALLED, AND CONNECTED BY THE EC. COORDINATE INSTALLATION IN FIELD WITH CONTRACTOR RESPONSIBLE FOR DUCT WORK. REFER TO PLANS FOR QUANTITY AND LOCATION OF DETECTORS.
- ALL CIRCUIT BREAKERS INDICATED ON EQUIPMENT CONNECTION SCHEDULE FOR INSTALLATION IN EXISTING PANELS ARE TO BE PROVIDED BY THE EC. NEW BREAKERS ARE TO BE UL LISTED FOR USE IN EXISTING PANEL, MATCHING EXISTING POWER CHARACTERISTICS, VIF.
- PROVIDE 1/2" CONDUIT WITH PULL STRING FOR INTERLOCKING CONTROL WIRING.
- INDOOR UNIT FED VIA OUTDOOR UNIT. PROVIDE INTERCONNECT CONDUITS FOR POWER AND CONTROL WIRING (SEPARATE 1/2" CONDUITS).
- PROVIDE SHUT DOWN RELAY AND IDENTIFY LOCATION ON AS-BUILT DRAWINGS.
- UTILIZE SPARE BREAKERS IN PANEL INDICATED.
- PROVIDE WEATHERPROOF DUPLEX RECEPTACLE AT LOCATION OF UNIT. WIRE RECEPTACLE BACK TO NEAREST 120V BELOW.
- WHERE PANEL AND CIRCUIT NUMBER ARE BLANK, EC TO UTILIZE EXISTING CIRCUITRY AND BREAKER SERVING PREVIOUS EQUIPMENT.

** INDICATES NOT REQUIRED OR NOT APPLICABLE.
 F INDICATES YES, REQUIRED.
 MANUF INDICATES SUPPLIED/INSTALLED BY MANUFACTURER.

DETAIL NOTES:

- REFER TO IDENTIFICATION SPECIFICATION 26 0553 FOR ADDITIONAL NAMEPLATE REQUIREMENTS.
- NAMEPLATE SHALL BE LAMINATED THREE LAYER PLASTIC WITH ENGRAVED BLACK LETTERS ON WHITE CONTRASTING BACKGROUND. LETTER SIZE SHALL BE 1/8", MINIMUM PLATE THICKNESS 1/8".
- SECURE NAMEPLATE TO SURFACES WITH (2) FLAT HEAD BRASS SCREWS. ADHESIVE CEMENT SHALL NOT BE ALLOWED.
- NAMEPLATES SHALL BE USED TO IDENTIFY ANY NEW EQUIPMENT INSTALLED UNDER THIS PROJECT INCLUDING BUT NOT LIMITED TO ANY OF THE FOLLOWING:

- PANELBOARDS
- SWITCHBOARDS
- SWITCHGEAR
- TRANSFORMERS
- SERVICE DISCONNECTS
- EQUIPMENT SAFETY SWITCHES / DISCONNECTS
- CIRCUIT BREAKERS IN DISTRIBUTION PANEL BOARDS
- TIME CLOCKS
- CONTACTOR PANELS
- MOTOR STARTERS
- VFD'S



Panel: PP5
 Location: MECHANICAL 114
 Supply From:
 Mounting: SURFACE
 Enclosure: NEMA1

Volts: 208Y/120
 Phases: 3
 Wires: 4

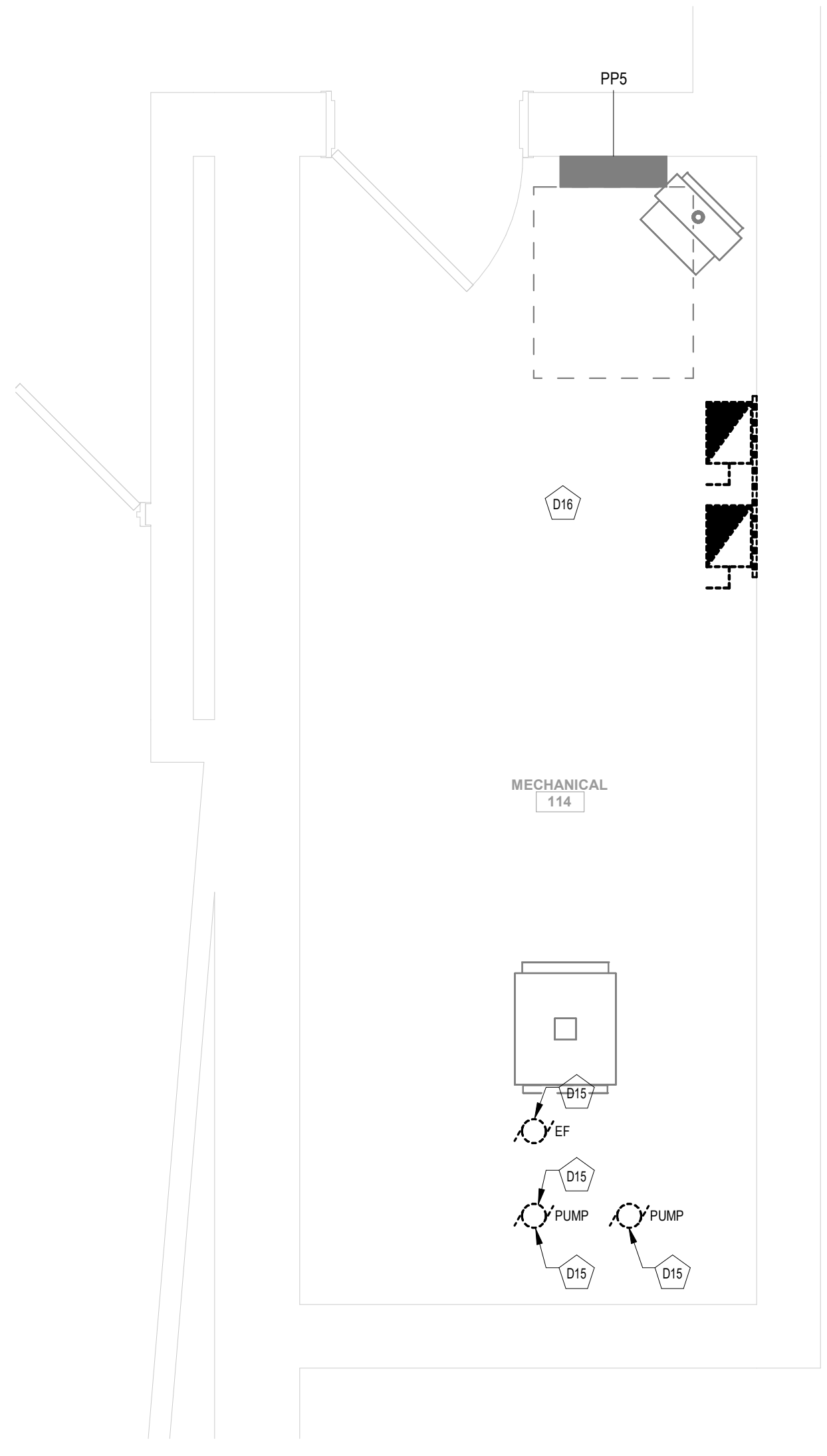
A.I.C. Rating: 10,000 AMPS SYMMETRICAL
 Mains Type: MLO
 Mains Rating: 100.0 A
 MCB Rating: 100.0 A
 Accessories:

Notes:
 PROVIDE DOOR-IN-DOOR ENCLOSURE PANEL.

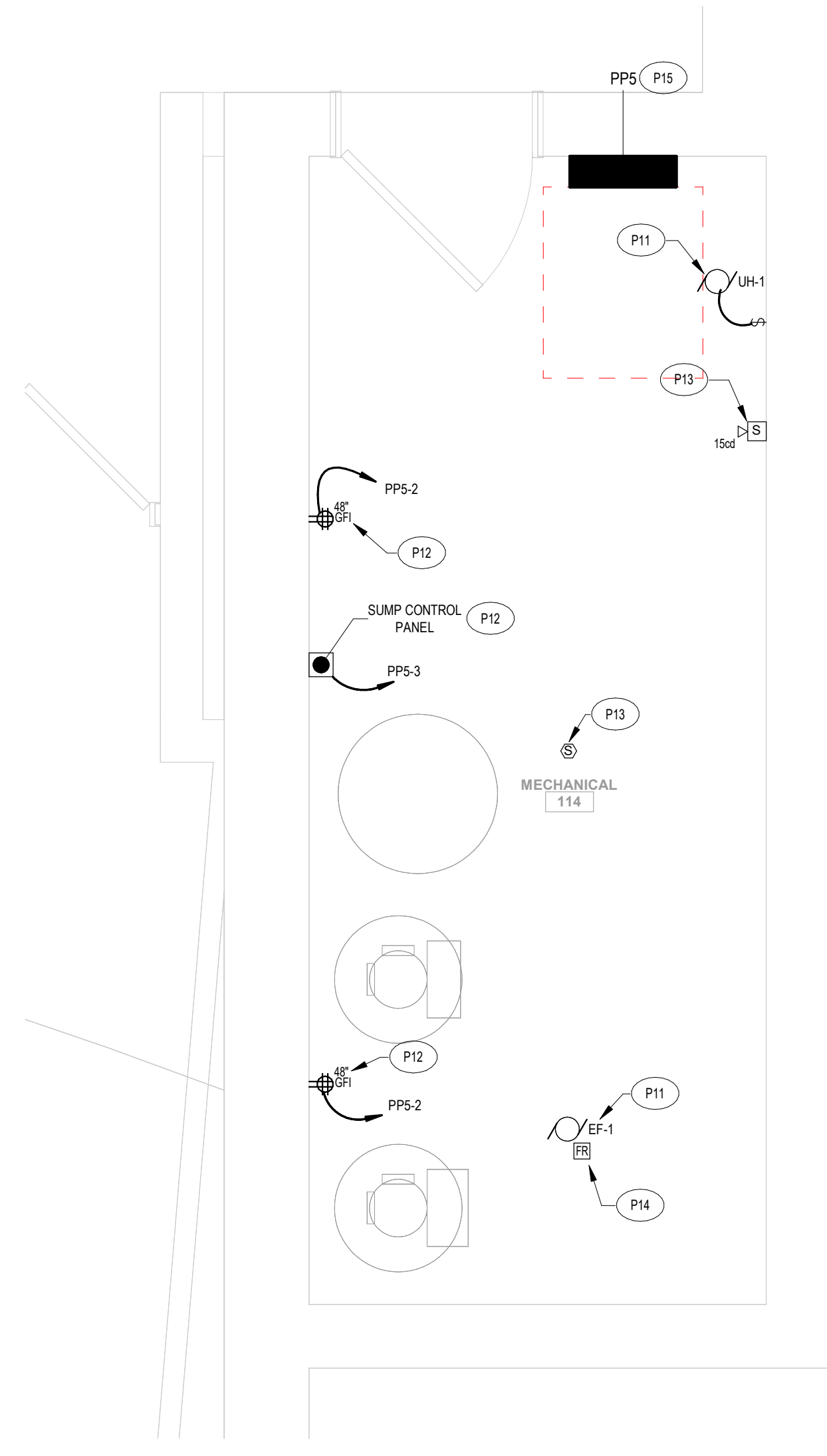
CKT	Circuit Description	Trip	Poles	Poles	Trip	Circuit Description	CKT
1	UH-1, EF-1 MECH RM 114	20 A	1	1	20 A	RECEPTACLE MECH RM 114	2
3	SUMP PUMP CONTROL PANEL & PUMPS MECH RM 114	20 A	1	1	20 A	TV RECEPTACLE	4
5				1	20 A	TV RECEPTACLE	6
7	LIGHT AUDDITORIUM AISLE	20 A	1	1	--	SPACE	8
9	SIEMENS PANEL MEZZ	20 A	1	1	20 A	CIRCULATING PUMP	10
11	RECEPTACLE BOOTH R CAM	20 A	1	1	20 A	SECURITY MAIN PUMP	12
13	RECEPTACLE REAR AUDI. R CAM	20 A	1	2	20 A	CUH	14
15							16
17	AHU1-2	40 A	3			AHU1-1	18
19				3	40 A		20
21	WELL PUMP	20 A	2				22
23	LIGHTS OUTSIDE	20 A	1	1	20 A	SAN CHLORINATOR	24
25	LIGHTS OUTSIDE	20 A	1	1	20 A	SUMP PUMP	26
27	HANDICAP CHAIR LIFT	20 A	1	1	20 A	SPARE	28
29	FAN	20 A	1	1	20 A	CONTROL WELL	30

4 NAME PLATE DETAIL
 SCALE: NOT TO SCALE

3 RECEPTACLE IDENTIFICATION DETAIL
 SCALE: NOT TO SCALE



2 ELECTRICAL DEMOLITION PLAN - FIRST FLOOR AREA A
 SCALE: 1/2" = 1'-0"



1 POWER AND SYSTEM PLAN - FIRST FLOOR AREA A
 SCALE: 1/2" = 1'-0"

GENERAL NOTES:

- SEE DRAWING ES000 FOR APPLICABLE GENERAL NOTES, ABBREVIATIONS, SYMBOLS AND LEGENDS

KEYNOTE LEGEND

D15 DISCONNECT AND REMOVE CIRCUITRY AND ALL COMPONENTS SERVING MECHANICAL EQUIPMENT BACK TO SOURCE LABEL BREAKER AS SPARE.
 D16 CONTRACTOR TO VERIFY AND REMOVE ALL ABANDONED DISCONNECTS, CONDUITS, AND JUNCTION BOXES WITHIN SPACE.
 P11 PROVIDE WALL CLOCK AS INDICATED. RE-USE EXISTING FEEDERS MADE AVAILABLE DURING DEMOLITION WORK.
 P12 PROVIDE (2)#10, (1)#10G IN 1/2" EMT CONDUIT AND CIRCUIT TO PANEL AS INDICATED. PROVIDE 20AMP UL LISTED BREAKER FOR USE IN EXISTING PANEL.
 P13 PROVIDE FIRE ALARM DEVICE AND CIRCUIT TO FIRE ALARM CONTROL PANEL.
 P14 PROVIDE A DEDICATED FIRE ALARM FAN SHUT DOWN RELAY AND CONNECTION FROM MECHANICAL EQUIPMENT TO FIRE ALARM CONTROL PANEL.
 P15 REPLACE EXISTING SURFACE MOUNTED PANEL WITH NEW PANEL AT SAME LOCATION. DISCONNECT FEEDER AND BRANCH CIRCUIT WIRING. CUT BACK CONDUITS AS REQUIRED. AND INSTALL NEW PANEL. RECONNECT FEEDER AND BRANCH CIRCUIT WIRING. CONTRACTOR TO TRACE OUT ALL EXISTING BRANCH CIRCUITS. PROVIDE A NEW, TYPED DIRECTORY USING CORRECT ROOM NAMES AND NUMBERS. PANEL SCHEDULE TO INCLUDE FEEDER SIZES AND FEEDER SOURCE. REFER TO PANEL SCHEDULE FOR ADDITIONAL INFORMATION.

KEY PLAN:

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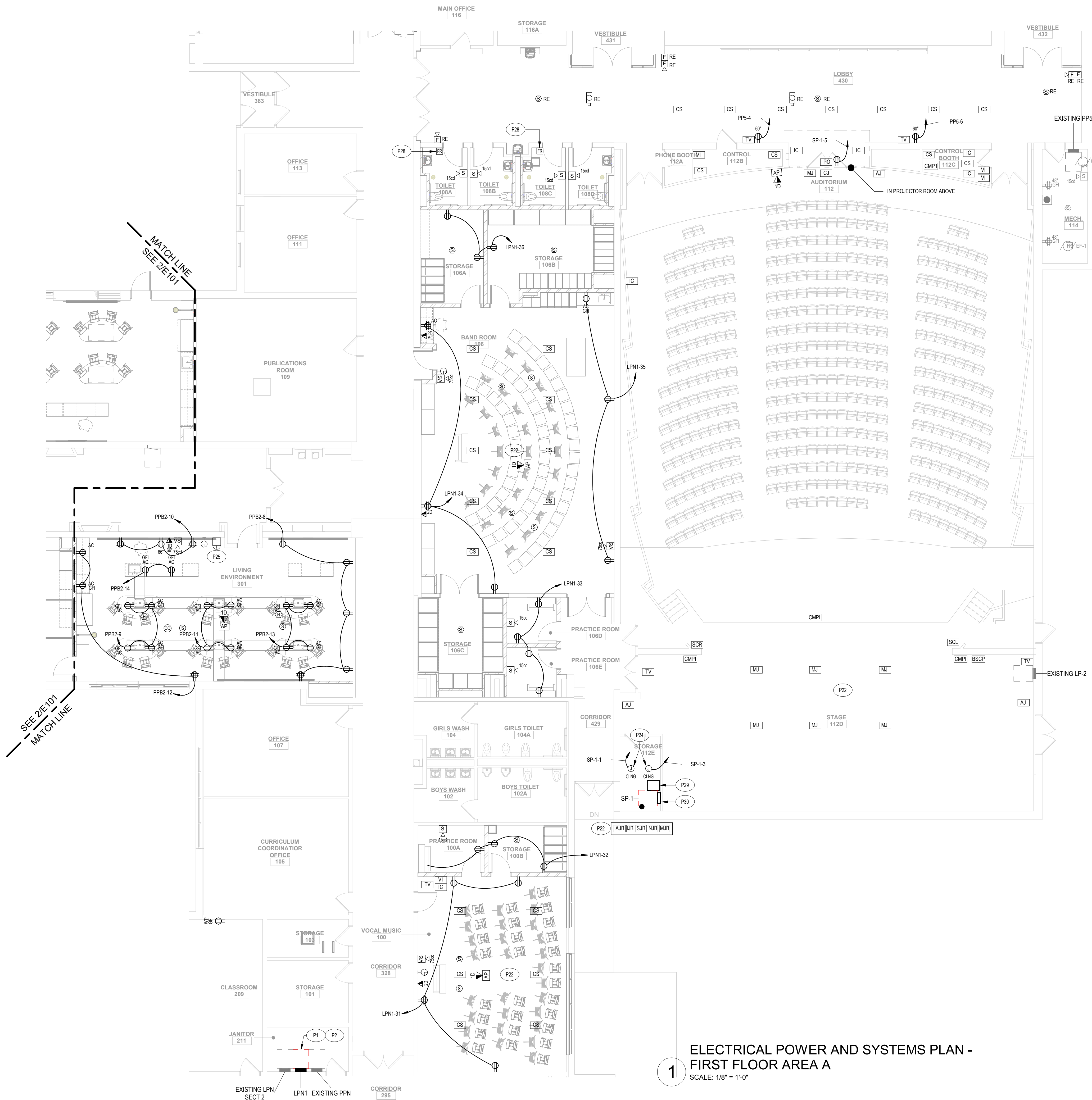
REV	DATE	DESCRIPTION

DRAWN BY SMG	PROJECT NUMBER 2023-105
CHECKED BY SGV	DATE 12/16/2024

POWER AND SYSTEM PLAN - FIRST FLOOR AREA A

BUILDING NUMBER HS	SHEET NUMBER 1A-E100 BID
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1 ELECTRICAL POWER AND SYSTEMS PLAN - FIRST FLOOR AREA A
SCALE: 1/8" = 1'-0"

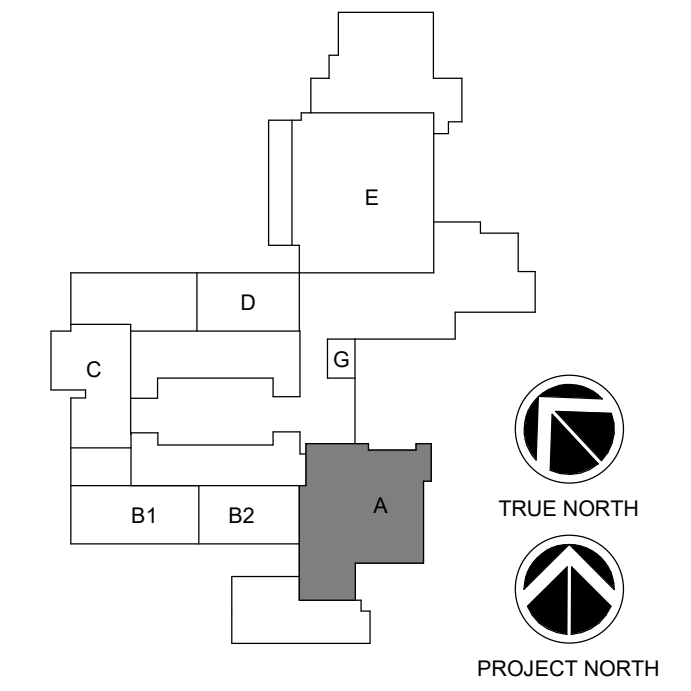
GENERAL NOTES:

1. SEE DRAWING ES000 FOR APPLICABLE GENERAL NOTES, ABBREVIATIONS, SYMBOLS AND LEGENDS

KEYNOTE LEGEND

- P1 PROVIDE NEW PANEL TO REPLACE EXISTING PANEL. ONCE NEW 42 POLE PANEL IS INSTALLED RECONNECT ALL BRANCH CIRCUIT AND FEEDER WIRING MADE SAVED FROM DEMOLITION WORK.
- P2 CONTRACTOR TO TRACE OUT ALL EXISTING CIRCUITS IN PANEL AND PROVIDE A TYPED WRITTEN ACCURATE DIRECTORY IN NEW PANEL.
- P22 E.C. TO PROVIDE BOXES AND CONDUITS AS DETAILED ON SHEETS TS100, TS101 & TS102. COORDINATE ALL WORK WITH THEATRE SOUND SYSTEM VENDOR.
- P24 PROVIDE CIRCUITS INDICATED EXTENDING FROM CEILING IN FLEXIBLE RACE WAY TO NEW AV RACK.
- P25 E.C. TO INSTALL GAS EM-OFF BUTTON FURNISHED BY PC AT LOCATION SHOWN. E.C. TO THEN PROVIDE A 1/2" CONDUIT AND CONTROL WIRE TO SOLENOID VALVE CONTROL PANEL, THEN FROM CONTROL PANEL TO SOLENOID VALVE IN ORIGIN SPACE. ALSO PROVIDE A 120V CONNECTION TO SOLENOID VALVE CONTROL PANEL. REFER TO P SERIES DRAWINGS FOR FURTHER INFORMATION.
- P28 PROVIDE CONNECTION TO FIRE ALARM SYSTEM FOR FIRE/SMOKE DAMPER.
- P29 PROVIDE 30KVA ISOLATION TRANSFORMER FOR AUDIOVISUAL SYSTEM AS INDICATED. REFER TO AUDIOVISUAL CONTRACT DRAWINGS FOR ADDITIONAL INFORMATION.
- P30 PROVIDE 100A BUS, 100A MCB, 42 POLE, 12000V PANELBOARD FOR AUDIOVISUAL LOADS. REFER TO AUDIOVISUAL CONTRACT DRAWINGS FOR ADDITIONAL INFORMATION.

KEY PLAN:



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POWER AND SYSTEM PLAN - FIRST FLOOR AREA A

BUILDING NUMBER HS	SHEET NUMBER E100 BID
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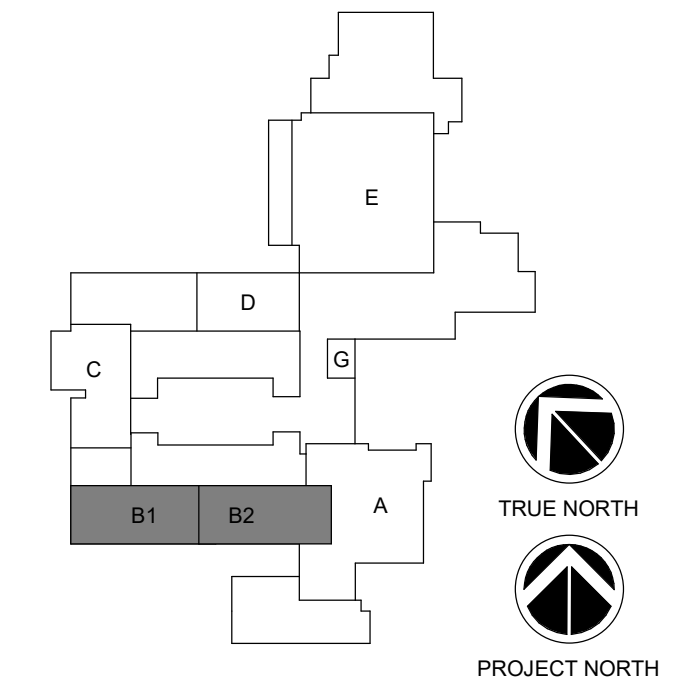
GENERAL NOTES:

1. SEE DRAWING ES000 FOR APPLICABLE GENERAL NOTES, ABBREVIATIONS, SYMBOLS AND LEGENDS

KEYNOTE LEGEND

- A5 PROVIDE POWER CONNECTION TO MECHANICAL EQUIPMENT AS INDICATED. PROVIDE NECESSARY STARTERS, DISCONNECTS AND ACCESSORIES AS INDICATED ON MECHANICAL PLANS. REFER TO EQUIPMENT CONNECTION SCHEDULE FOR FURTHER INFORMATION.
- P3 PROVIDE NEW PANEL AT LOCATION SHOWN. REFER TO ONE-LINE DIAGRAM AND PANEL SCHEDULE FOR FURTHER INFORMATION.
- P24 PROVIDE CIRCUITS INDICATED EXTENDING FROM CEILING IN FLEXIBLE RACE WAY TO NEW AIR RACK.
- P25 EC TO INSTALL GAS EM-OFF BUTTON FURNISHED BY PC AT LOCATION SHOWN. EC TO THEN PROVIDE A 1/2" CONDUIT AND CONTROL WIRE TO SOLENOID VALVE CONTROL PANEL, THEN FROM CONTROL PANEL TO SOLENOID VALVE IN CRAWL SPACE. ALSO PROVIDE A 120V CONNECTION TO SOLENOID VALVE CONTROL PANEL. REFER TO P SERIES DRAWINGS FOR FURTHER INFORMATION.
- P35 RE-CONNECT EXISTING FEEDERS TO UNIT VENTILATOR.

KEY PLAN:



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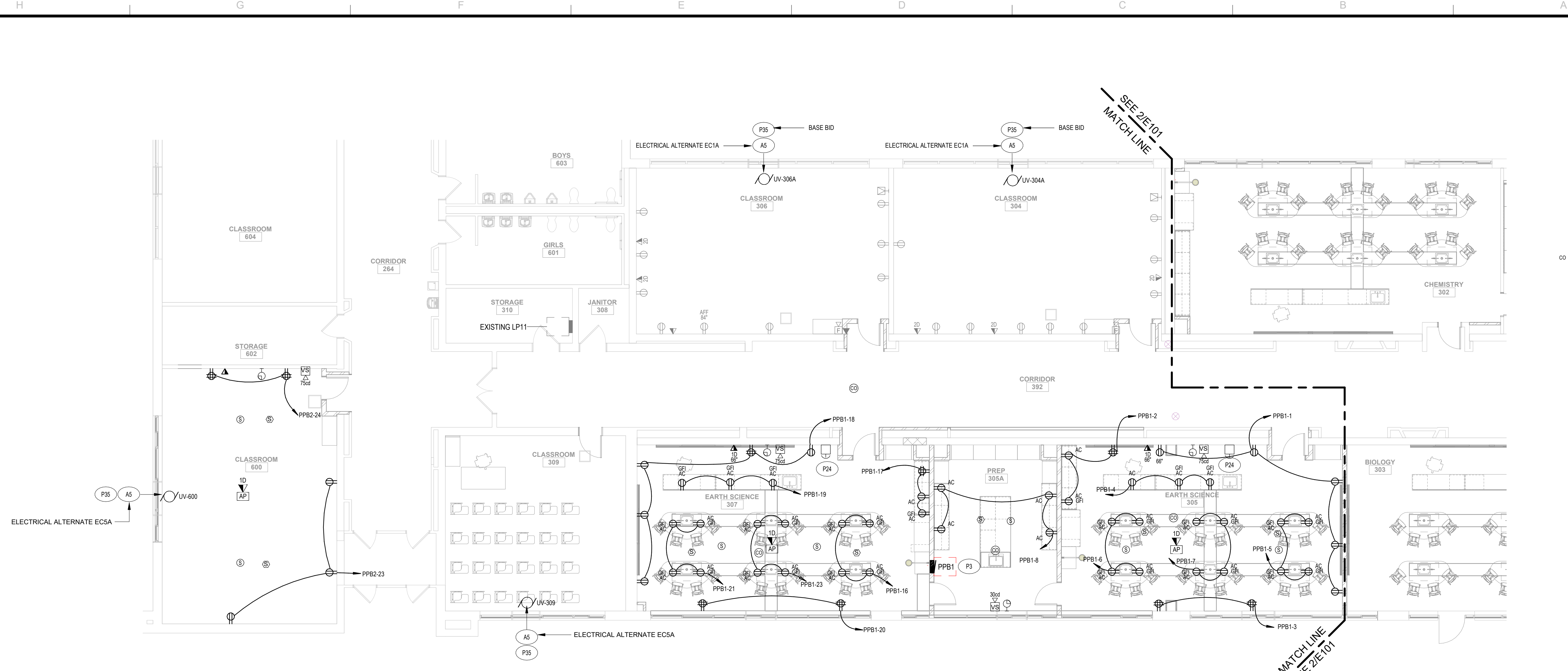
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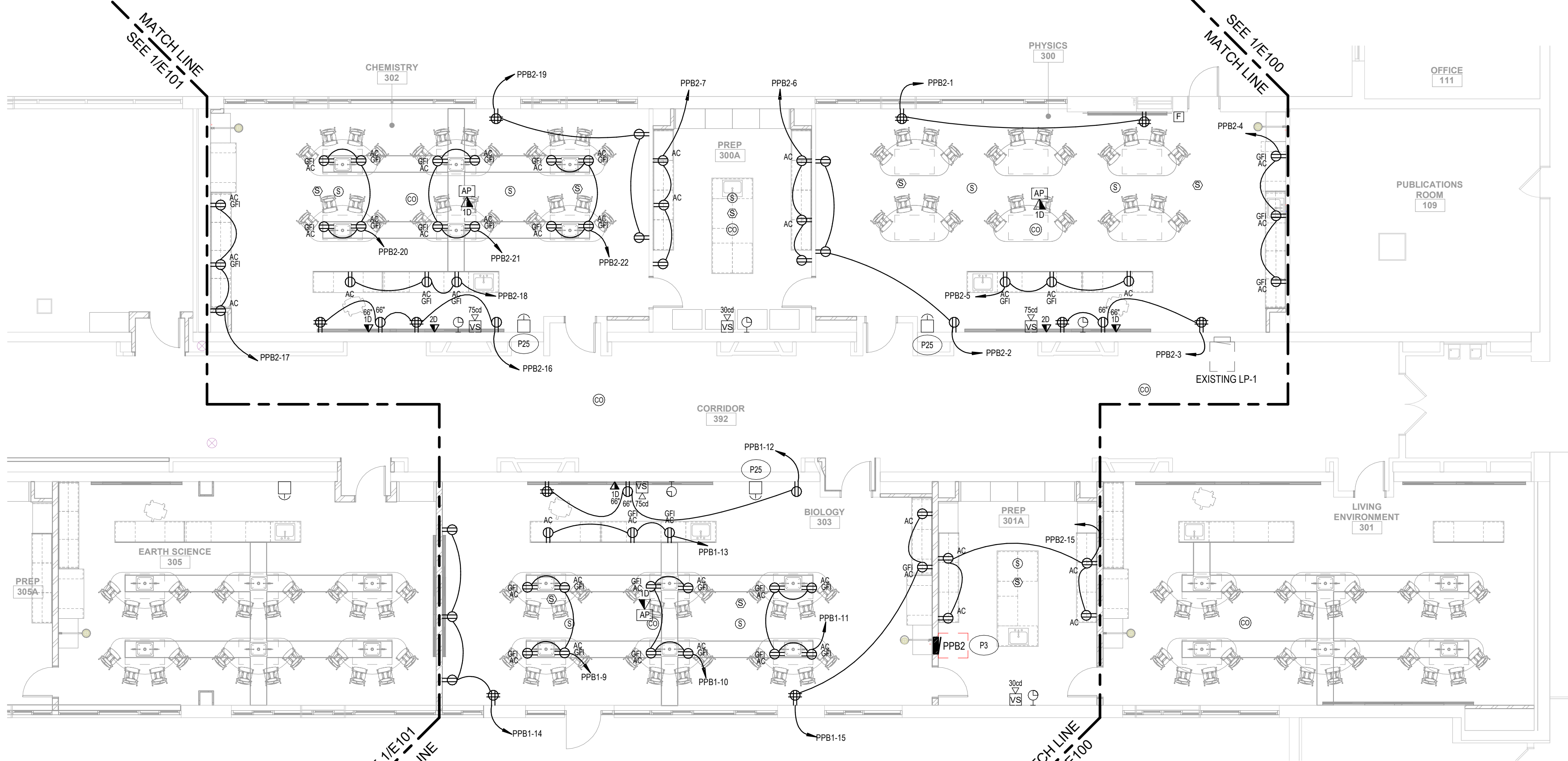
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CHECKED BY SGV	DATE 12/16/2024

POWER AND SYSTEM PLANS - FIRST FLOOR AREAS B1 & B2

BUILDING NUMBER HS	SHEET NUMBER E101 BID
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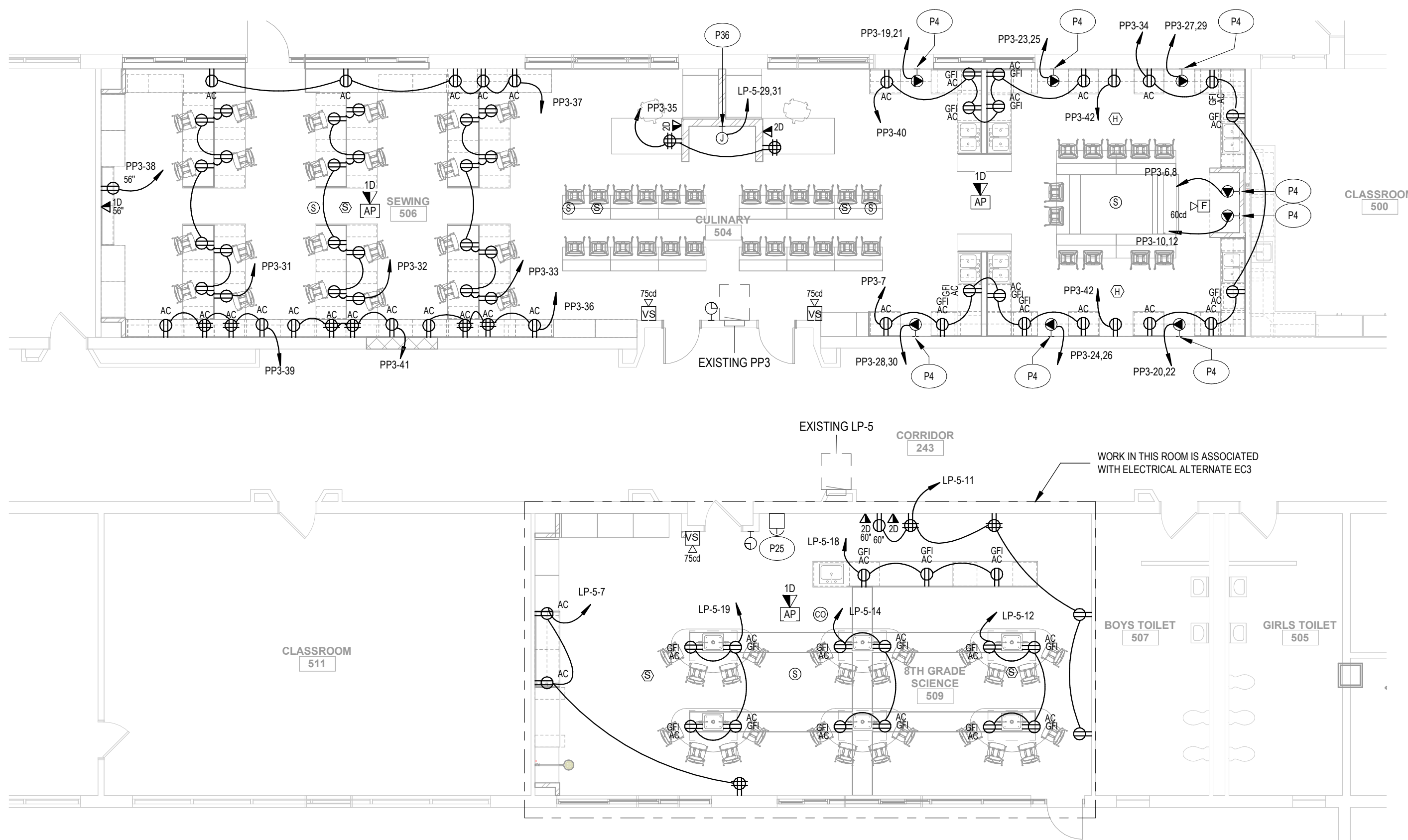


1
ELECTRICAL POWER AND SYSTEMS PLAN - FIRST FLOOR AREA B1
 SCALE: 1/8" = 1'-0"



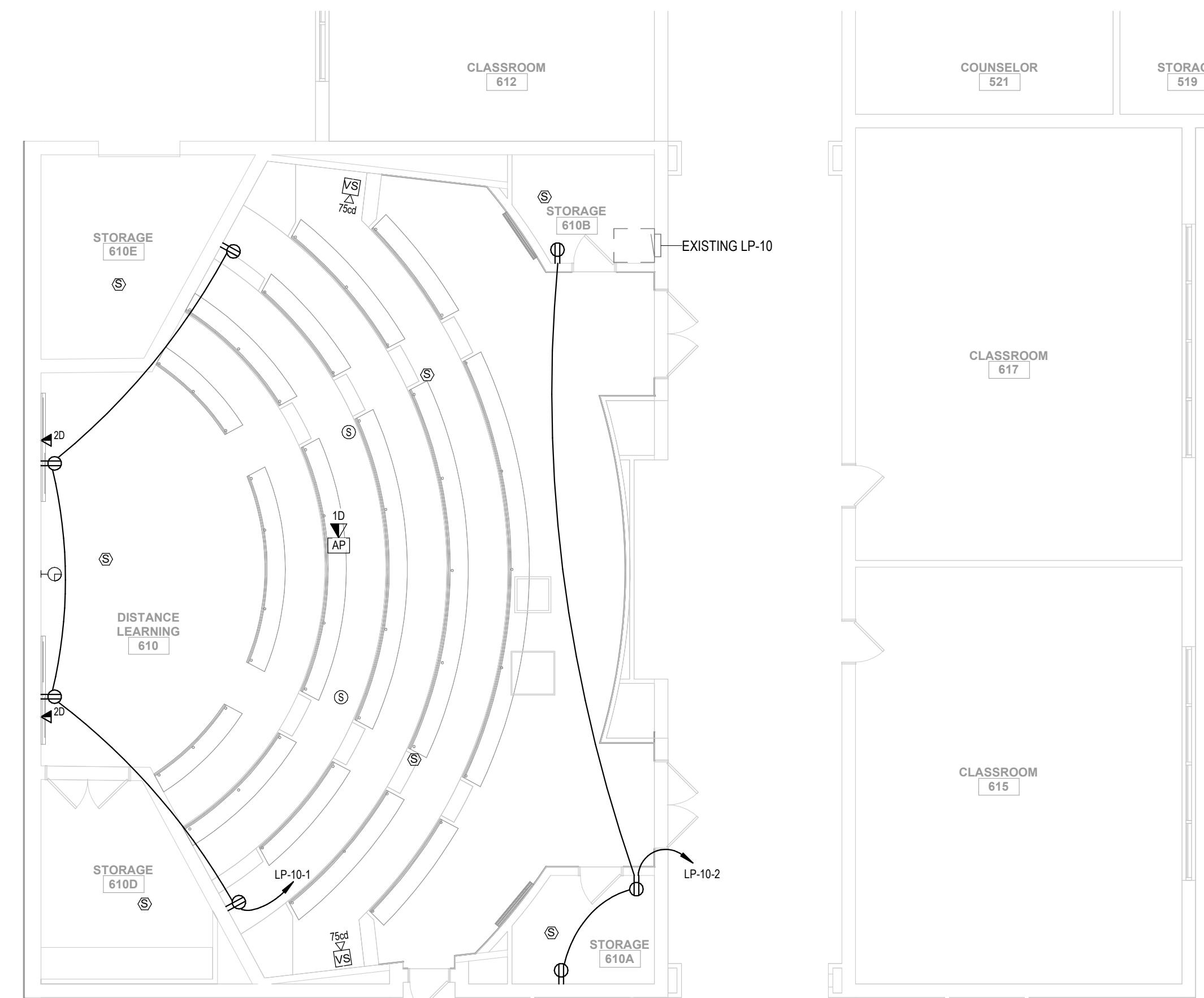
2
ELECTRICAL POWER AND SYSTEMS PLAN - FIRST FLOOR AREA B2
 SCALE: 1/8" = 1'-0"

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**ELECTRICAL POWER AND SYSTEMS PLAN -
FIRST FLOOR AREA D**

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



**ELECTRICAL POWER AND SYSTEMS PLAN -
FIRST FLOOR AREA C**

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

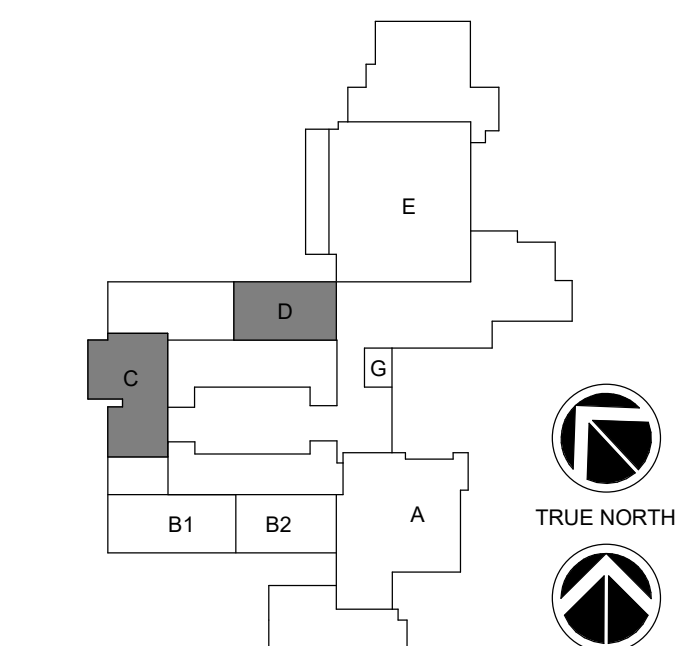
GENERAL NOTES:

- SEE DRAWING ES000 FOR APPLICABLE GENERAL NOTES, ABBREVIATIONS, SYMBOLS AND LEGENDS

KEYNOTE LEGEND

- P4 PROVIDE A NEMA 1-6-50R RECEPTACLE AT 30" AFF PROVIDE 4-#8 WITH 1-#10 GROUND BACK TO PANEL PPS.
- P10 PROVIDE POWER CONNECTION TO MECHANICAL EQUIPMENT AS INDICATED. PROVIDE NECESSARY STARTERS, DISCONNECTS AND ACCESSORIES AS INDICATED ON MECHANICAL PLANS. REFER TO EQUIPMENT CONNECTION SCHEDULE FOR FURTHER INFORMATION.
- P25 EG TO INSTALL GAS EM-OFF BUTTON FURNISHED BY PC AT LOCATION SHOW. EG TO THEN PROVIDE A 1/2" CONDUIT AND CONTROL WIRE TO SOLENOID VALVE CONTROL PANEL THEN FROM CONTROL PANEL TO SOLENOID VALVE IN CRAWL SPACE. ALSO PROVIDE A 120V CONNECTION TO SOLENOID VALVE CONTROL PANEL. REFER TO P SERIES DRAWINGS FOR FURTHER INFORMATION.
- P28 PROVIDE POWER CONNECTION TO KILN AS INDICATED. REFER TO ARCHITECTURAL PLANS FOR EXACT LOCATION.
- P35 RE-CONNECT EXISTING FEEDERS TO UNIT VENTILATOR.
- P38 PROVIDE POWER CONNECTION TO OPERABLE PARTITION AS INDICATED.

KEY PLAN:



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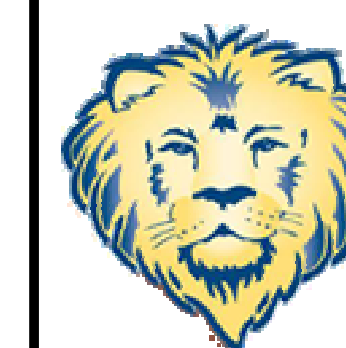
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**POWER AND SYSTEM PLANS - FIRST
FLOOR AREAS C & D**

BUILDING NUMBER HS	SHEET NUMBER E102 BID
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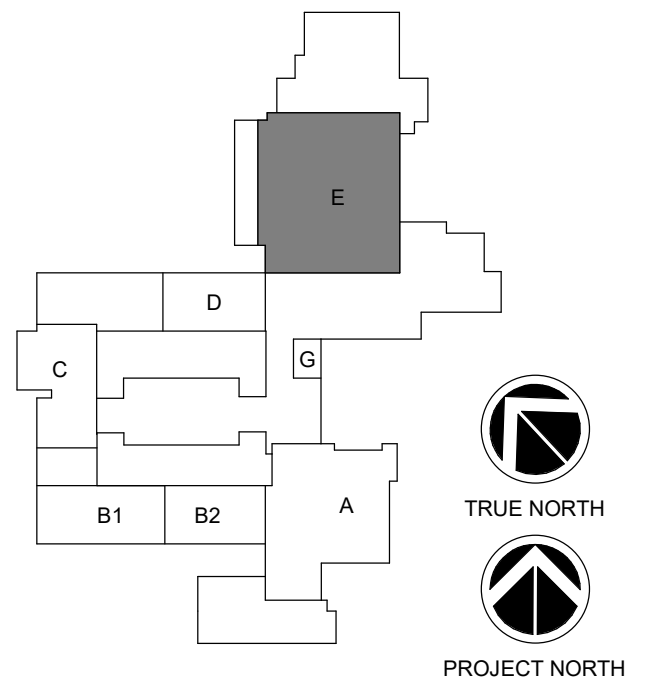
GENERAL NOTES:

1. SEE DRAWING ES000 FOR APPLICABLE GENERAL NOTES, ABBREVIATIONS, SYMBOLS AND LEGENDS

KEYNOTE LEGEND

- A4 RE-CONNECT EXISTING FEEDERS TO AIR HANDLING UNIT.
- P5 PROVIDE RECEPTACLES INDICATED.
- P7 PROVIDE COMMUNICATION DEVICES (TELEPHONE OUTLETS, SPEAKERS, ETC). RE-USE EXISTING FEEDERS MADE AVAILABLE DURING DEMOLITION WORK.
- P11 PROVIDE WALL CLOCK AS INDICATED. RE-USE EXISTING FEEDERS MADE AVAILABLE DURING DEMOLITION WORK.
- P13 PROVIDE FIRE ALARM DEVICE AND CIRCUIT TO FIRE ALARM CONTROL PANEL.
- P23 E.C. TO PROVIDE BOXES AND CONDUITS AS DETAILED ON SHEETS TS200, TS201 & TS202. COORDINATE ALL WORK WITH THEATRE SOUND SYSTEM VENDOR.

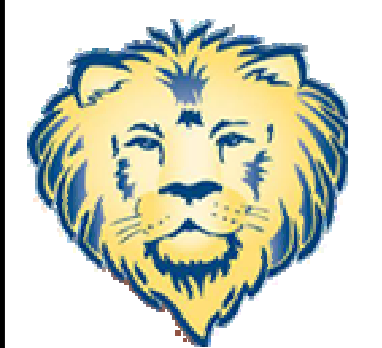
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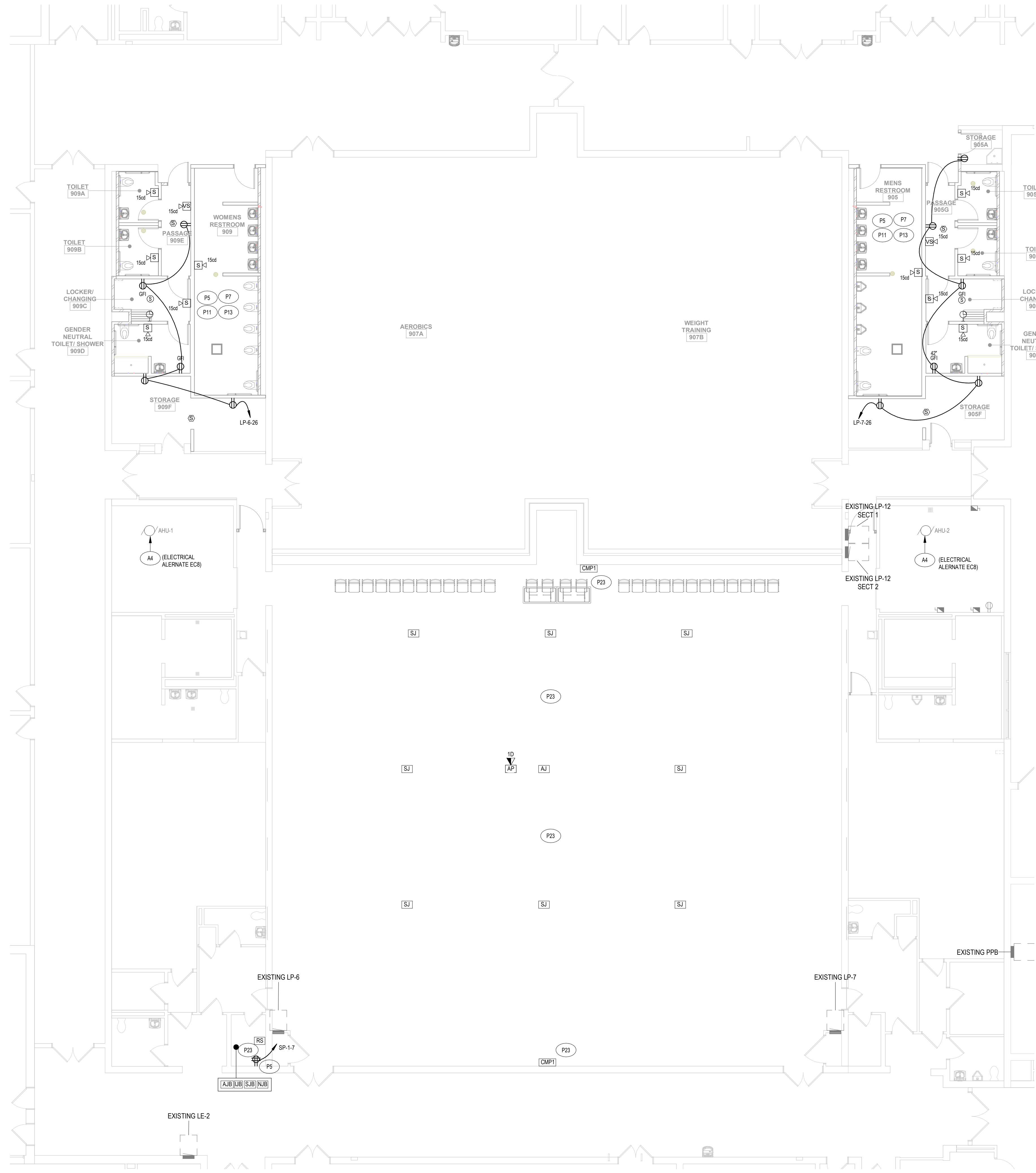
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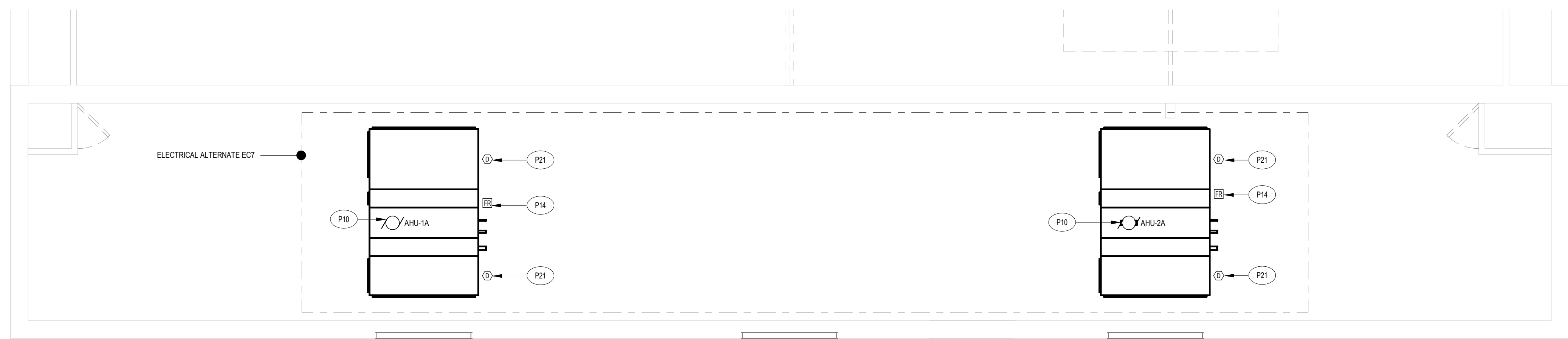
POWER AND SYSTEM PLAN - FIRST FLOOR AREA E

BUILDING NUMBER HS	SHEET NUMBER E103 BID
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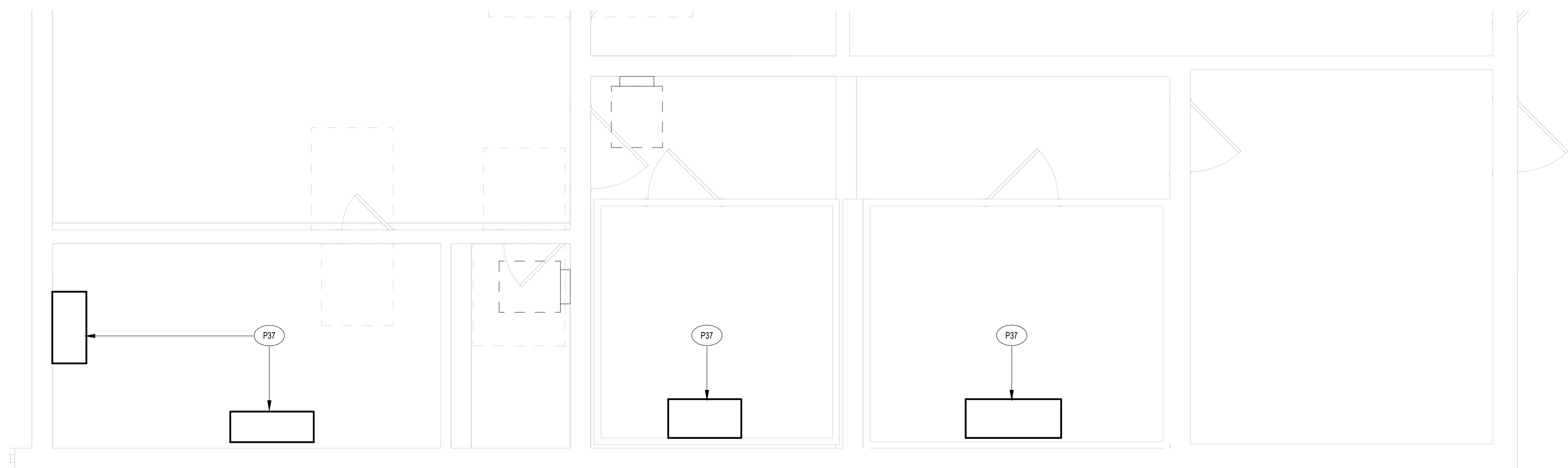


1 ELECTRICAL POWER AND SYSTEMS PLAN - FIRST FLOOR AREA E
 SCALE: 1/8" = 1'-0"

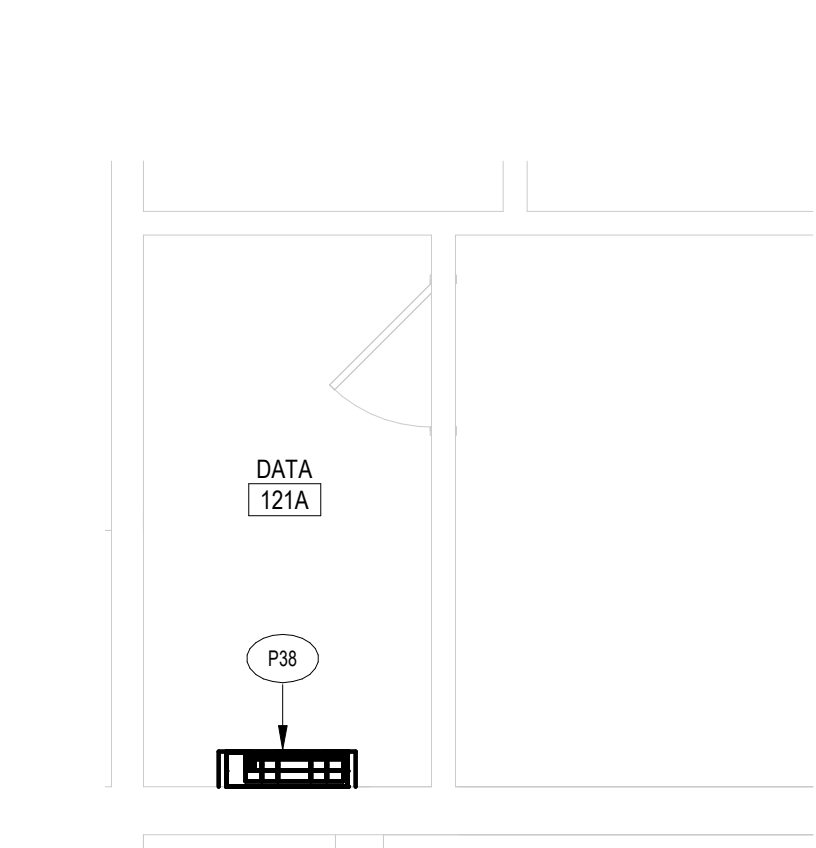
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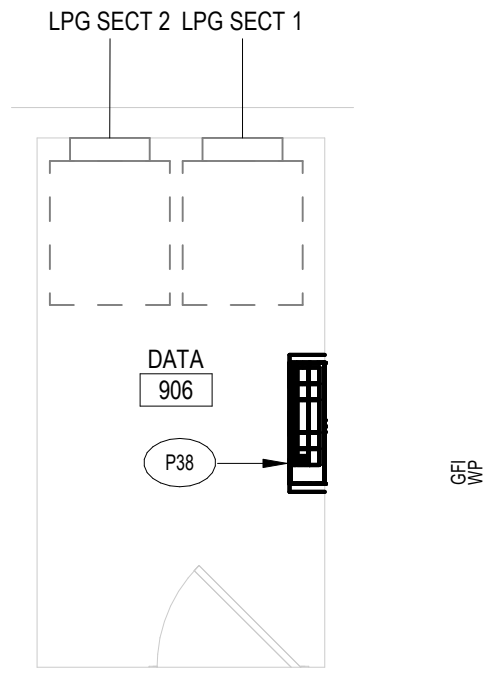
1 ELECTRICAL POWER PLAN - GYMNASIUM
716 MEZZANINE
SCALE: 1/4" = 1'-0"



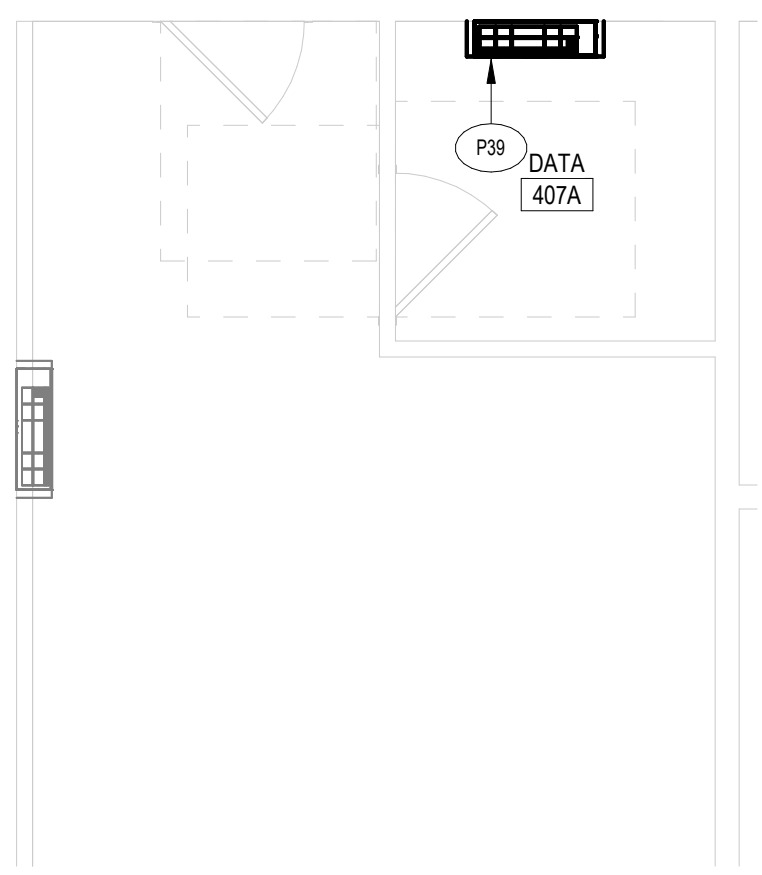
2 POWER PLAN - ENLARGED KITCHEN PART
PLAN
SCALE: 1/4" = 1'-0"



3 POWER PLAN - ENLARGED DATA 121A PART
PLAN
SCALE: 1/4" = 1'-0"



5 POWER PLAN - ENLARGED DATA 906 PART
PLAN
SCALE: 1/4" = 1'-0"



4 POWER PLAN - ENLARGED DATA 407A PART
PLAN
SCALE: 1/4" = 1'-0"

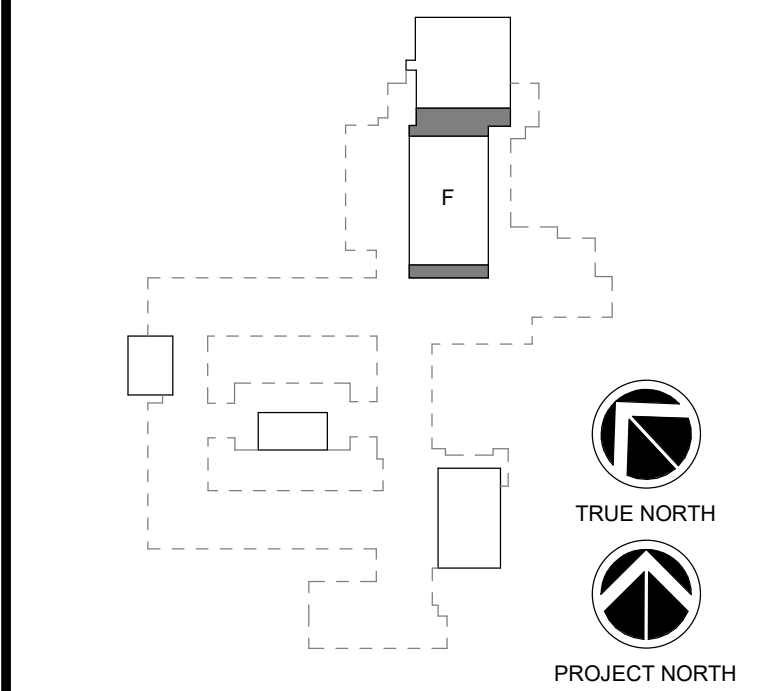
GENERAL NOTES:

1. SEE DRAWING ES000 FOR APPLICABLE GENERAL NOTES, ABBREVIATIONS, SYMBOLS AND LEGENDS

KEYNOTE LEGEND

- P10 PROVIDE POWER CONNECTION TO MECHANICAL EQUIPMENT AS INDICATED. PROVIDE NECESSARY STARTERS, DISCONNECTS AND ACCESSORIES AS INDICATED ON MECHANICAL PLANS. REFER TO EQUIPMENT CONNECTION SCHEDULE FOR FURTHER INFORMATION.
- P14 PROVIDE A DEDICATED FIRE ALARM FAN SHUT DOWN RELAY AND CONNECTION FROM MECHANICAL EQUIPMENT TO FIRE ALARM CONTROL PANEL.
- P21 PROVIDE DUCT DETECTORS ON SUPPLY AND RETURN SIDE OF HVAC UNIT. WIRE BACK TO EXISTING FAC.
- P37 PROVIDE POWER CONNECTION TO COOLER/FREEZER EVAPORATOR. RE-USE FEEDERS MADE AVAILABLE FROM DEMOLITION WORK.
- P38 PROVIDE POWER CONNECTION TO SPLIT SYSTEM UNIT. RE-USE FEEDERS MADE AVAILABLE FROM DEMOLITION WORK.
- P39 PROVIDE POWER CONNECTION TO SPLIT SYSTEM UNIT VIA 20A, 2-POLE CIRCUIT BREAKER IN PANEL LE-1 USING #10, #10(G) IN 3/4" CONDUIT.

KEY PLAN:



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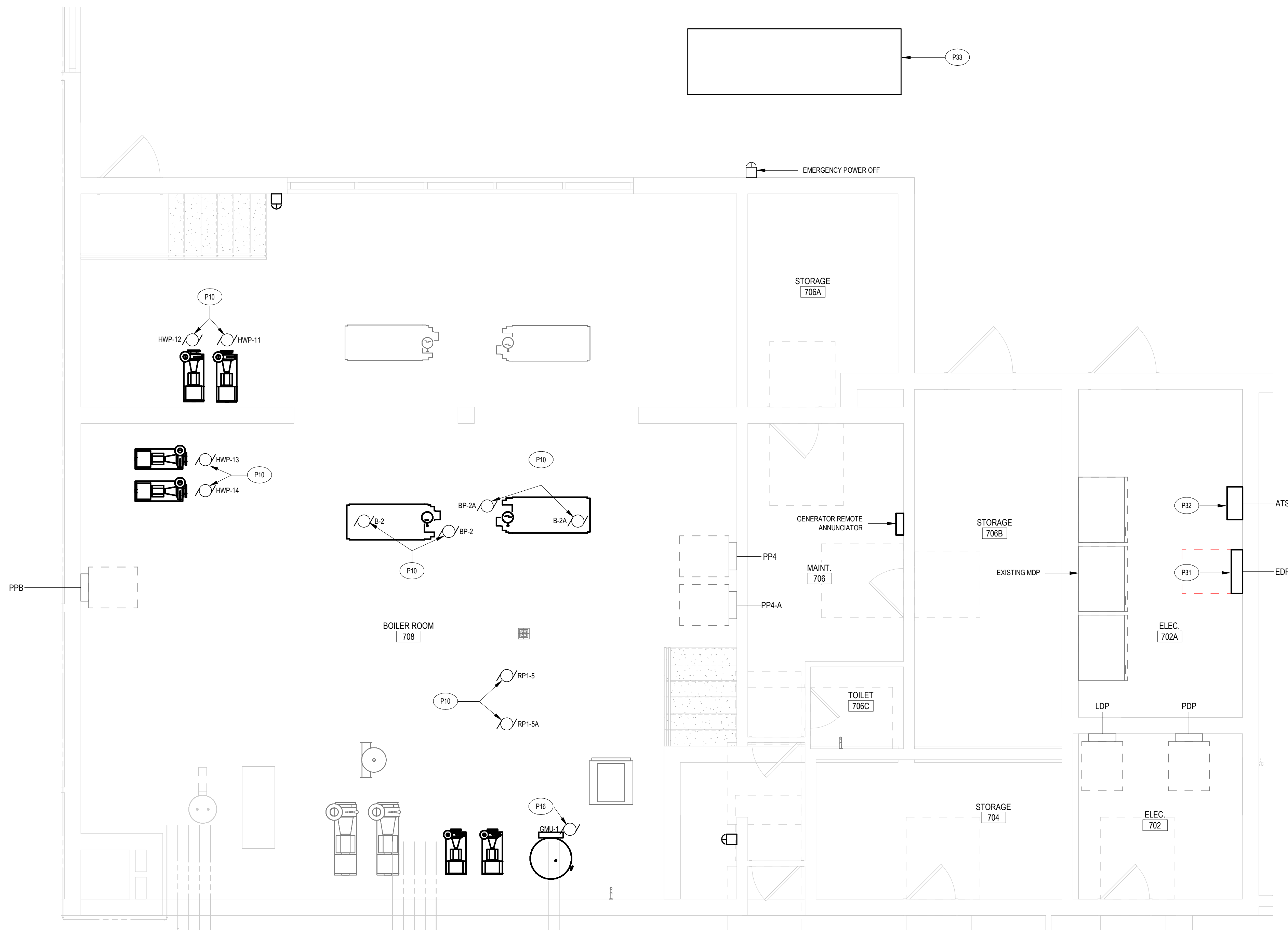
REV	DATE	DESCRIPTION

DRAWN BY MAH / TMF	PROJECT NUMBER 2023-105
CHECKED BY SGV	DATE 12/16/2024

POWER PLAN - ENLARGED MEZZANINE LEVEL

BUILDING NUMBER HS	SHEET NUMBER E104 BID
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1 POWER PLAN - ENLARGED BOILER ROOM AND ELECTRICAL ROOM PLAN
SCALE: 1/4" = 1'-0"

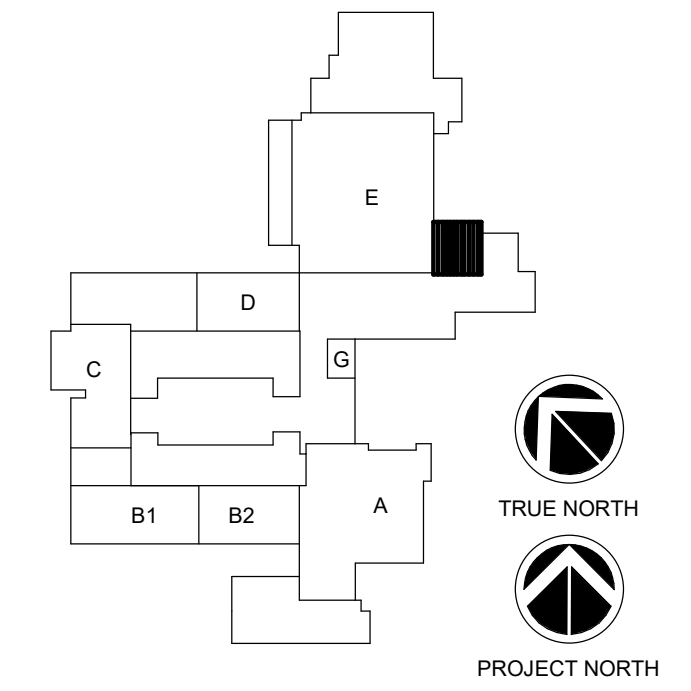
GENERAL NOTES:

- SEE DRAWING ES000 FOR APPLICABLE GENERAL NOTES, ABBREVIATIONS, SYMBOLS AND LEGENDS

KEYNOTE LEGEND

- P10 PROVIDE POWER CONNECTION TO MECHANICAL EQUIPMENT AS INDICATED. PROVIDE NECESSARY STARTERS, DISCONNECTS AND ACCESSORIES AS INDICATED ON MECHANICAL PLANS. REFER TO EQUIPMENT CONNECTION SCHEDULE FOR FURTHER INFORMATION.
- P16 PROVIDE POWER CONNECTION TO GLYCOL MAKE-UP UNIT AS INDICATED. REFER TO MECHANICAL PLANS FOR ADDITIONAL INFORMATION.
- P31 PROVIDE 600A TESP PANEL WITH 600A MCB AND 42 KVAIC RATING. REFER TO ONE-LINE DIAGRAM ON DRAWING E400 FOR ADDITIONAL INFORMATION.
- P32 PROVIDE 600A AUTOMATIC TRANSFER SWITCH. REFER TO ONE-LINE DIAGRAM ON DRAWING E400 FOR ADDITIONAL INFORMATION.
- P33 PROVIDE 200KW, 12000V, 3PH, 4W DIESEL GENERATOR WITH 600A SERVICE CIRCUIT BREAKER.

KEY PLAN:



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		2023-105
CHECKED BY		DATE
		12/16/2024
POWER PLAN - ENLARGED BOILER ROOM PLAN		
BUILDING NUMBER	SHEET NUMBER	
HS	E105	
	BID	

GENERAL NOTES:

1. SEE DRAWING ES000 FOR APPLICABLE GENERAL NOTES, ABBREVIATIONS, SYMBOLS AND LEGENDS

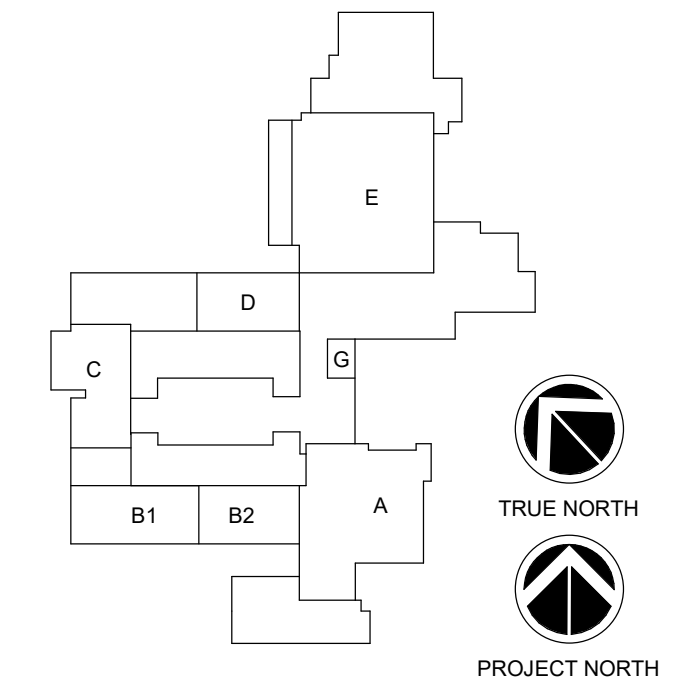
KEYNOTE LEGEND

- A2 PROVIDE POWER CONNECTION TO ROOFTOP UNIT AS INDICATED. REFER TO MECHANICAL PLANS FOR ADDITIONAL INFORMATION.
- P14 PROVIDE A DEDICATED FIRE ALARM FAN SHUT DOWN RELAY AND CONNECTION FROM MECHANICAL EQUIPMENT TO FIRE ALARM CONTROL PANEL.
- P17 PROVIDE POWER CONNECTION TO AIR COOLED CONDENSING UNIT AS INDICATED. REFER TO MECHANICAL PLANS FOR ADDITIONAL INFORMATION.
- P18 PROVIDE POWER CONNECTION TO ROOFTOP UNIT AS INDICATED. REFER TO MECHANICAL PLANS FOR ADDITIONAL INFORMATION.
- P19 PROVIDE POWER CONNECTION TO EXHAUST FAN AS INDICATED. REFER TO MECHANICAL PLANS FOR ADDITIONAL INFORMATION.
- P21 PROVIDE DUCT DETECTORS ON SUPPLY AND RETURN SIDE OF HVAC UNIT. WIRE BACK TO EXISTING FACP.
- P27 PROVIDE WEATHERPROOF SERVICE RECEPTACLE AS INDICATED.
- P34 EC TO RUN INTERCONNECTING FEEDERS FROM INDICATED ACCU TO ASSOCIATED SPLIT SYSTEM UNIT PER MANUFACTURERS RECOMMENDATION. REFER TO MECHANICAL PLANS FOR ADDITIONAL INFORMATION.

KEYNOTE LEGEND (ALT)

- A2 PROVIDE POWER CONNECTION TO ROOFTOP UNIT AS INDICATED. REFER TO MECHANICAL PLANS FOR ADDITIONAL INFORMATION.

KEY PLAN:



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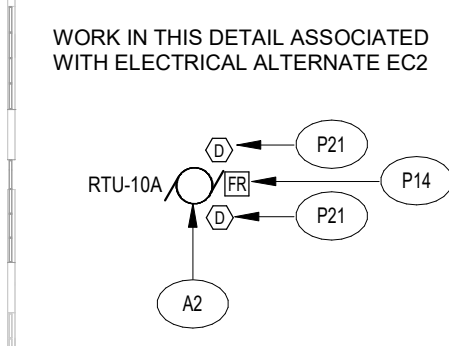
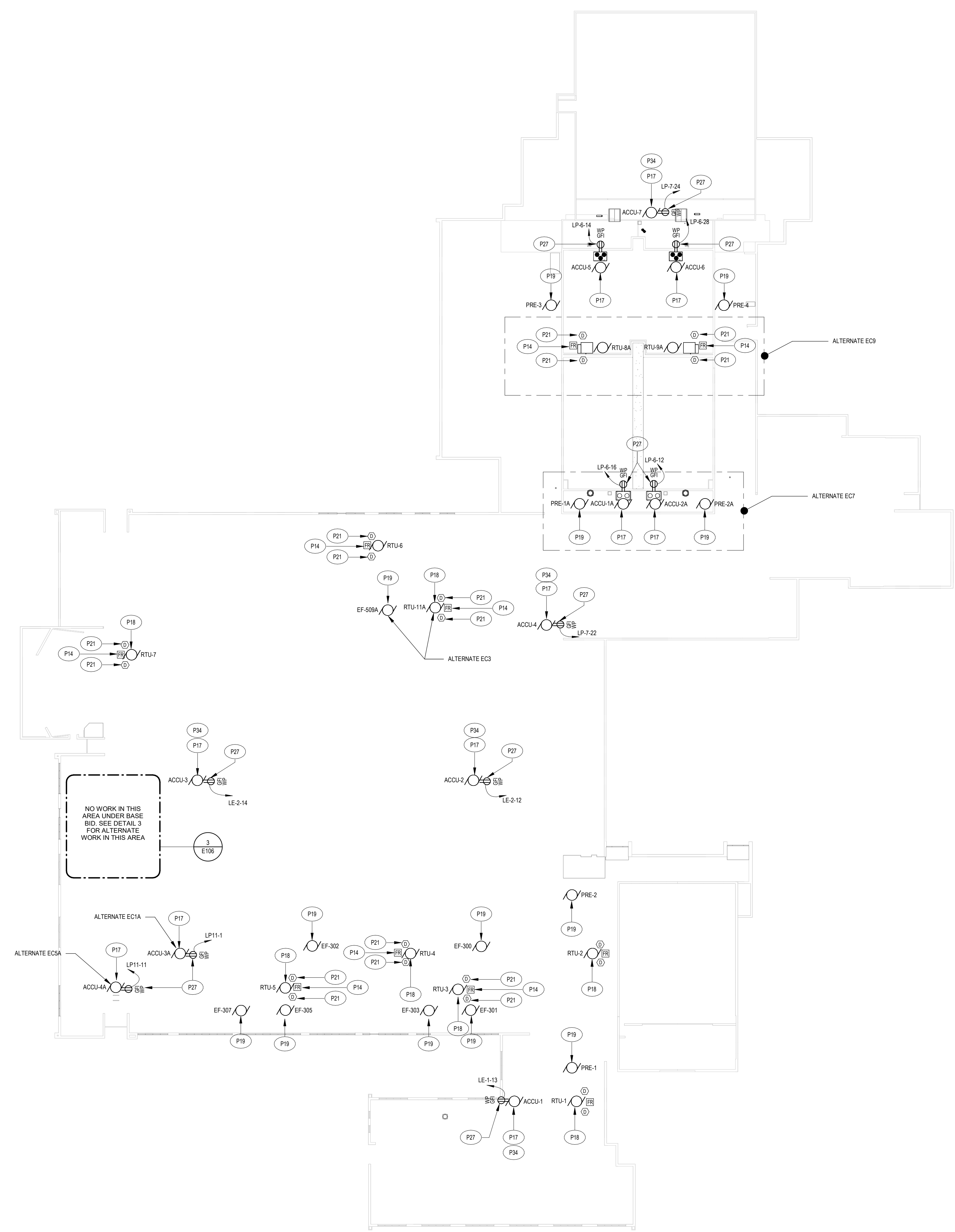
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CHECKED BY SGV	DATE 12/16/2024

POWER PLAN - ROOF

BUILDING NUMBER HS	SHEET NUMBER E106 BID
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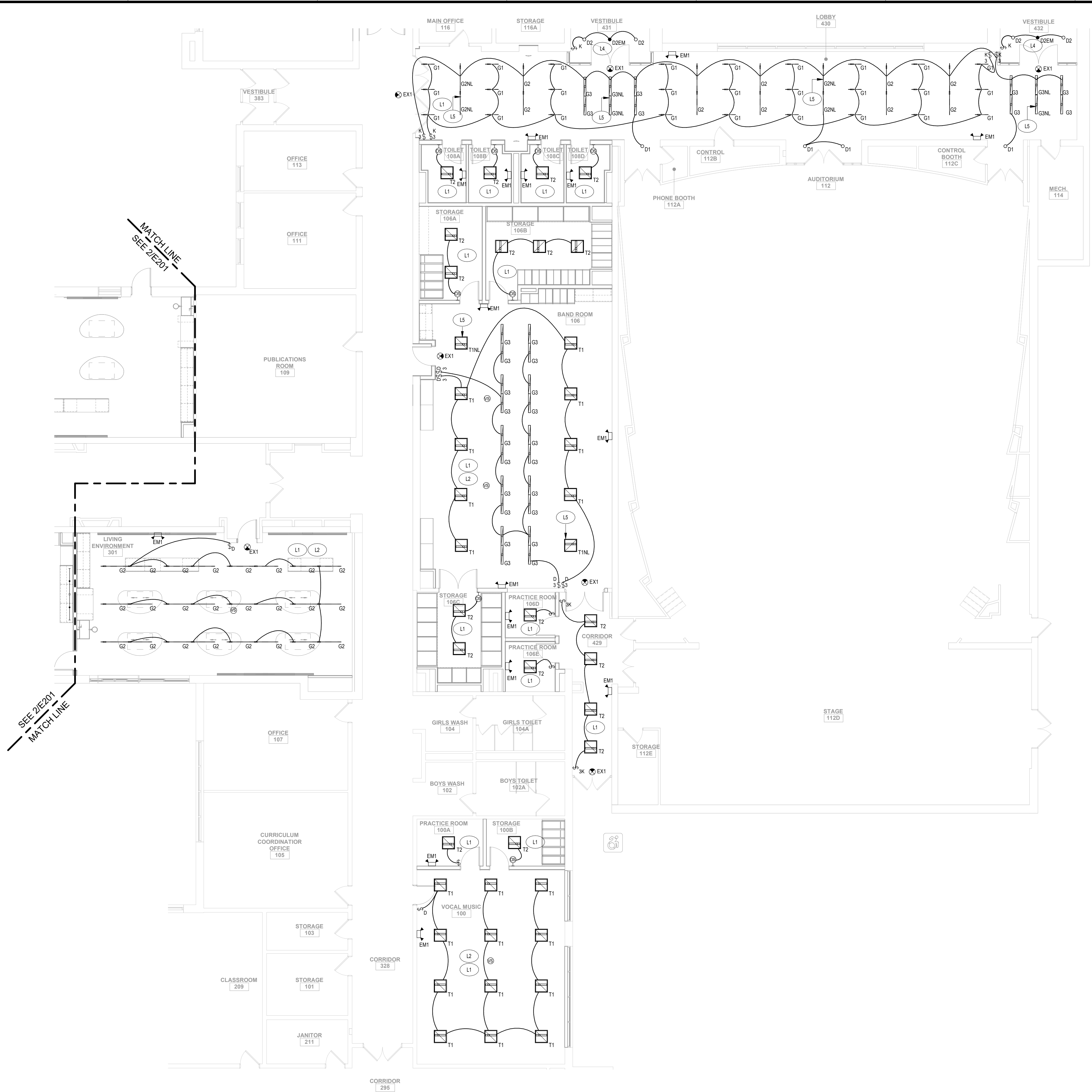


3 POWER PLAN - ROOF PLAN - ALTERNATE (ART ROOM 608)
 SCALE: 1/32" = 1'-0"

1 POWER PLAN - ROOF
 SCALE: 1/32" = 1'-0"

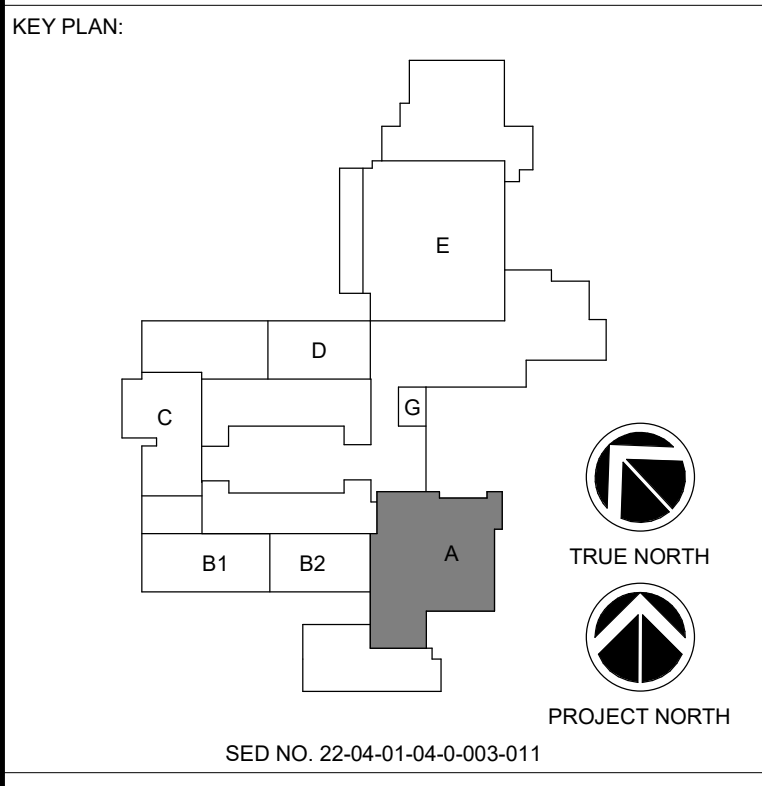
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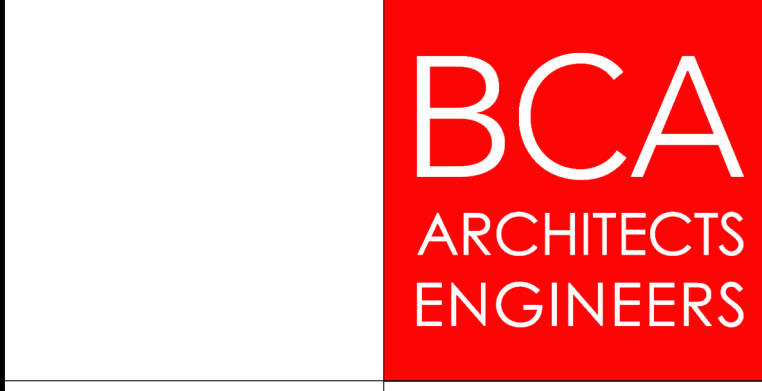
1 LIGHTING PLAN - FIRST FLOOR AREA A
SCALE: 1/8" = 1'-0"

- GENERAL NOTES:**
- SEE DRAWING ES000 FOR APPLICABLE GENERAL NOTES, ABBREVIATIONS, SYMBOLS AND LEGENDS.
 - AT UNDERCABINET FIXTURES "U1" AT EXIT SIGNS AND AT EMERGENCY LIGHTING WALL PACKS: PROVIDE AN UN-SWITCHED HOT LEG FROM LIGHTING CIRCUIT IN AREA.
- KEYNOTE LEGEND**
- CIRCUIT NEW LIGHTING TO EXISTING ROOM LIGHTING CIRCUIT.
 - PROVIDE NEW DIMMER SWITCH(ES) AS SHOWN. PROVIDE SPECIAL COVER PLATE TO COVER 2-GANG OPENING AND PROVIDE 0-10 VOLT WIRING FROM DIMMER SWITCH TO EACH LIGHT FIXTURE IN SPACE.
 - AT EMERGENCY FIXTURE: PROVIDE A UN-SWITCHED HOT LET FROM LIGHTING CIRCUIT TO EM BATTERY PORTION OF FIXTURE.
 - CIRCUIT NIGHTLIGHT FIXTURE TO UN-SWITCHED HOT LEG OF ROOM LIGHTING CIRCUIT.



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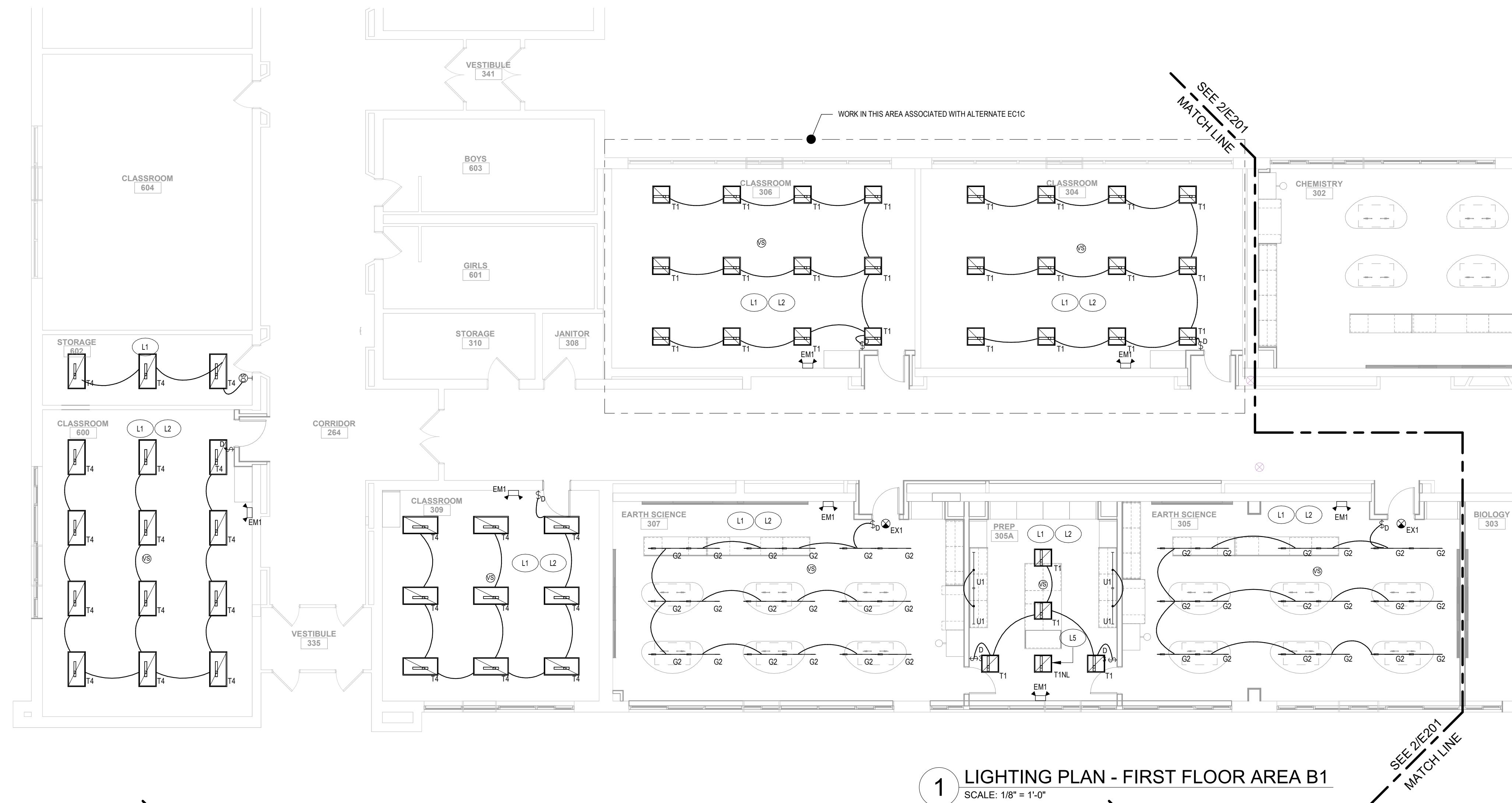
REV	DATE	DESCRIPTION

DRAWN BY MAH / TMF	PROJECT NUMBER 2023-105
CHECKED BY SGV	DATE 12/16/2024

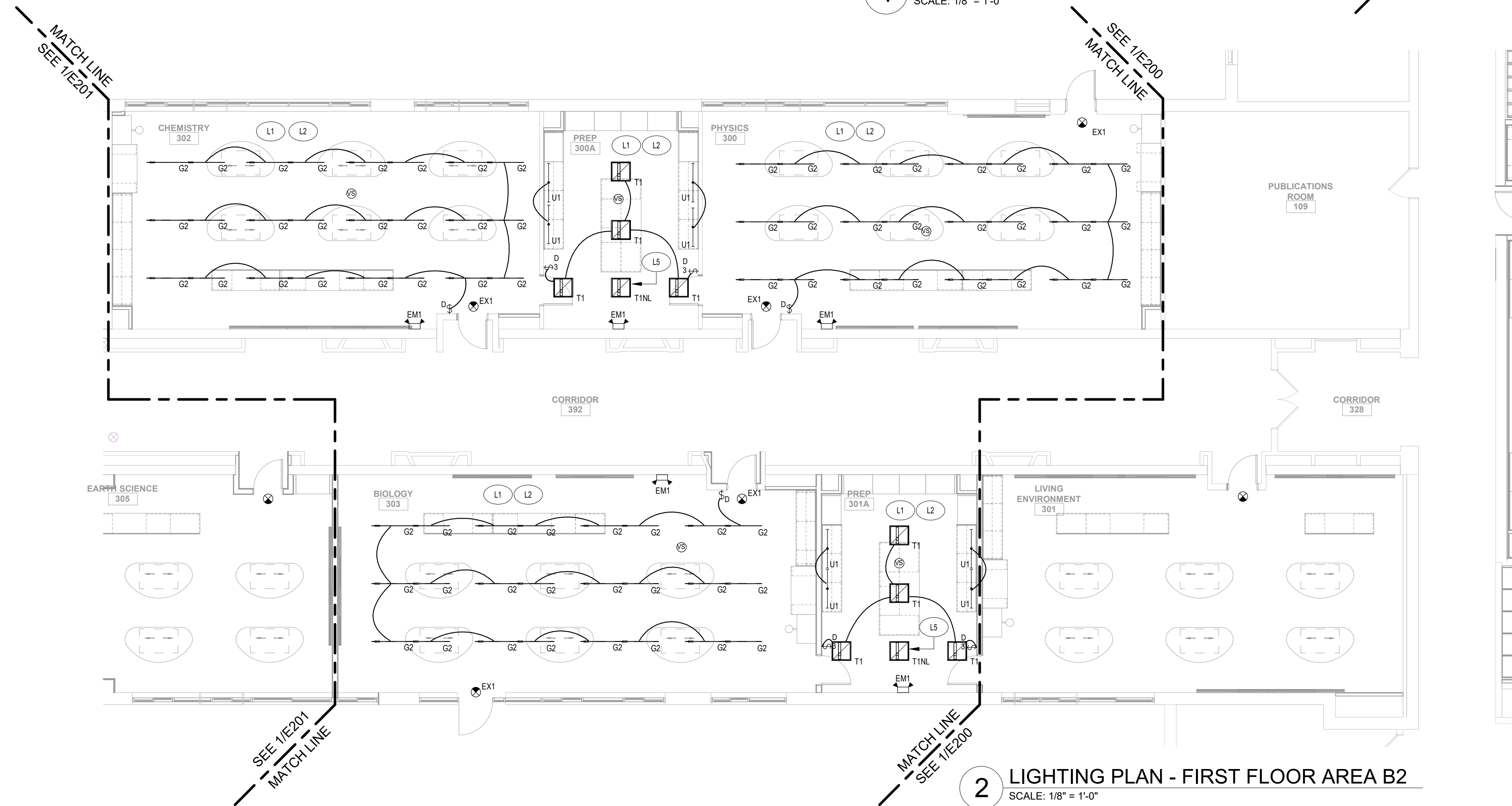
LIGHTING PLAN - FIRST FLOOR AREA A

BUILDING NUMBER HS	SHEET NUMBER E200 BID
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1 LIGHTING PLAN - FIRST FLOOR AREA B1
SCALE: 1/8" = 1'-0"



2 LIGHTING PLAN - FIRST FLOOR AREA B2
SCALE: 1/8" = 1'-0"

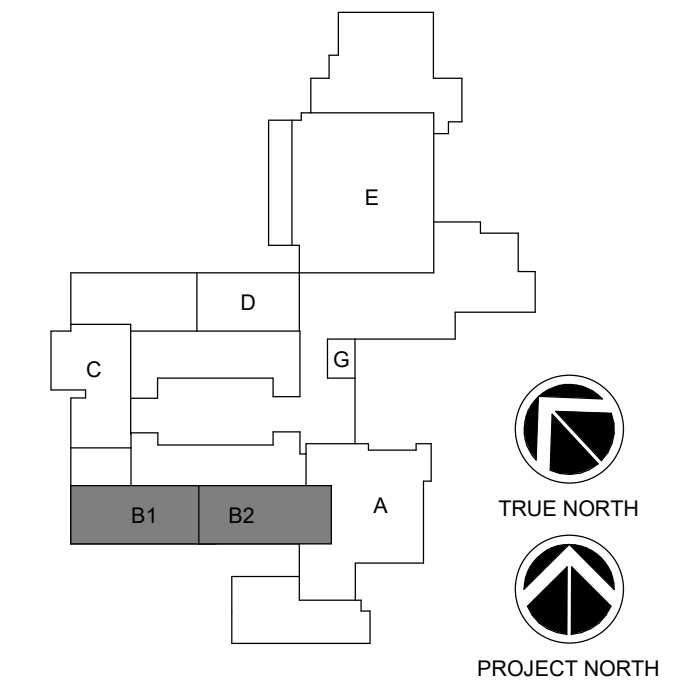
GENERAL NOTES:

- SEE DRAWING ES000 FOR APPLICABLE GENERAL NOTES, ABBREVIATIONS, SYMBOLS AND LEGENDS.
- AT UNDERCABINET FIXTURES "U1" AT EXIT SIGNS AND AT EMERGENCY LIGHTING WALL PACKS; PROVIDE AN UN-SWITCHED HOT LEG FROM LIGHTING CIRCUIT IN AREA.

KEYNOTE LEGEND

- CIRCUIT NEW LIGHTING TO EXISTING ROOM LIGHTING CIRCUIT.
- PROVIDE NEW DIMMER SWITCH(ES) AS SHOWN. PROVIDE SPECIAL COVER PLATE TO COVER 2-GANG OPENING AND PROVIDE 0-10 VOLT WIRING FROM DIMMER SWITCH TO EACH LIGHT FIXTURE IN SPACE.
- CIRCUIT NIGHTLIGHT FIXTURE TO UN-SWITCHED HOT LEG OF ROOM LIGHTING CIRCUIT.

KEY PLAN:



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CHECKED BY: SGV DATE: 12/16/2024

LIGHTING PLANS - FIRST FLOOR AREAS B1 & B2

BUILDING NUMBER: **HS** SHEET NUMBER: **E201**
BID

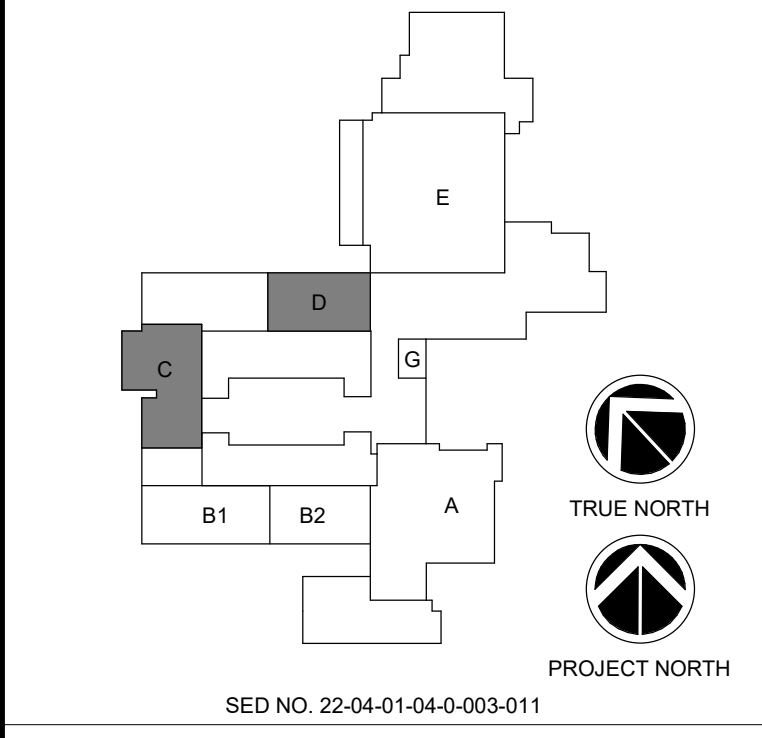
GENERAL NOTES:

- SEE DRAWING E500 FOR APPLICABLE GENERAL NOTES, ABBREVIATIONS, SYMBOLS AND LEGENDS.
- AT UNDERCABINET FIXTURES 'U1' AT EXIT SIGNS AND AT EMERGENCY LIGHTING WALL PACKS, PROVIDE AN UN-SWITCHED HOT LEG FROM LIGHTING CIRCUIT IN AREA.

KEYNOTE LEGEND

- CIRCUIT NEW LIGHTING TO EXISTING ROOM LIGHTING CIRCUIT.
- PROVIDE NEW DIMMER SWITCH(ES) AS SHOWN. PROVIDE SPECIAL COVER PLATE TO COVER 2-GANG OPENING AND PROVIDE 0-10 VOLT WIRING FROM DIMMER SWITCH TO EACH LIGHT FIXTURE IN SPACE.

KEY PLAN:



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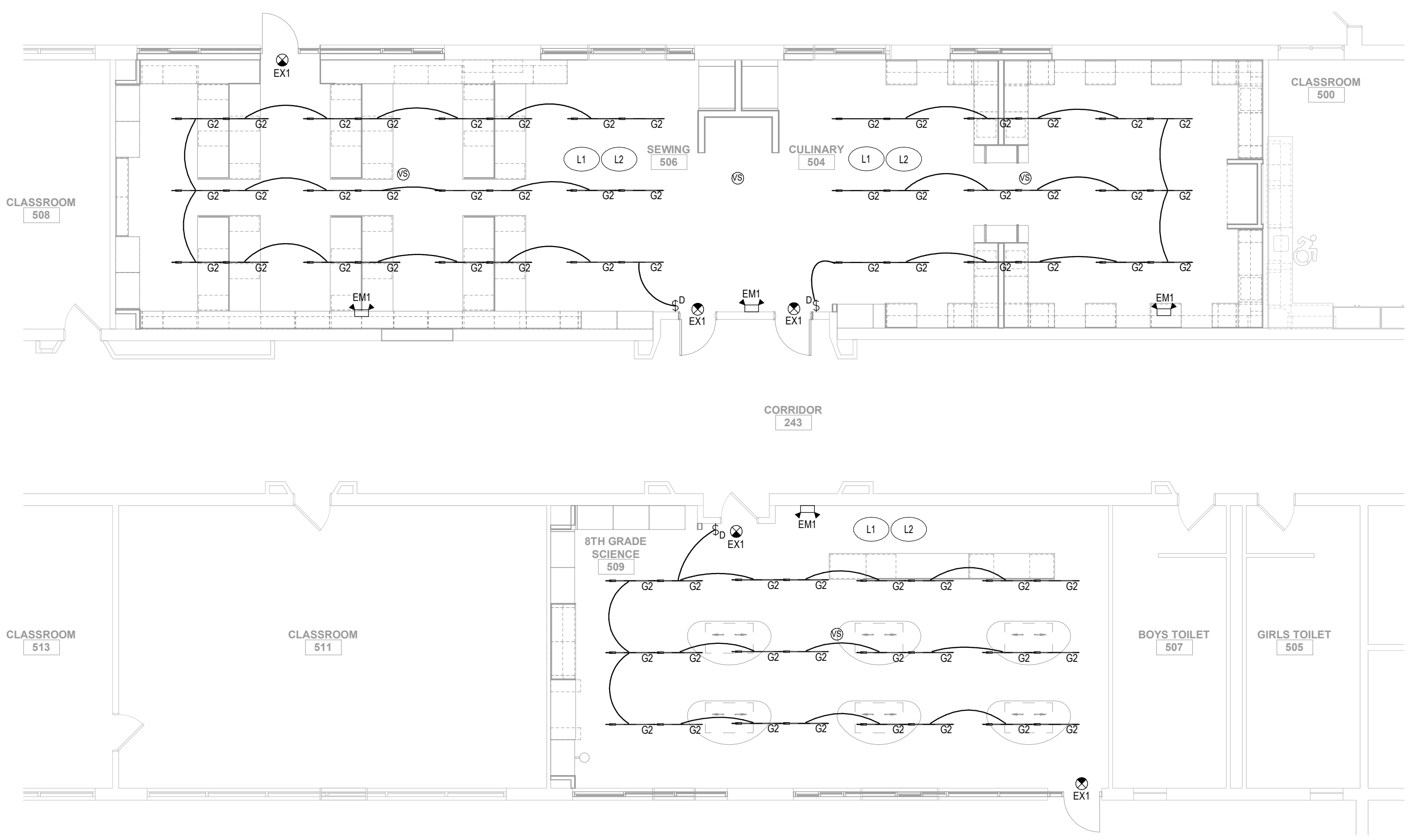
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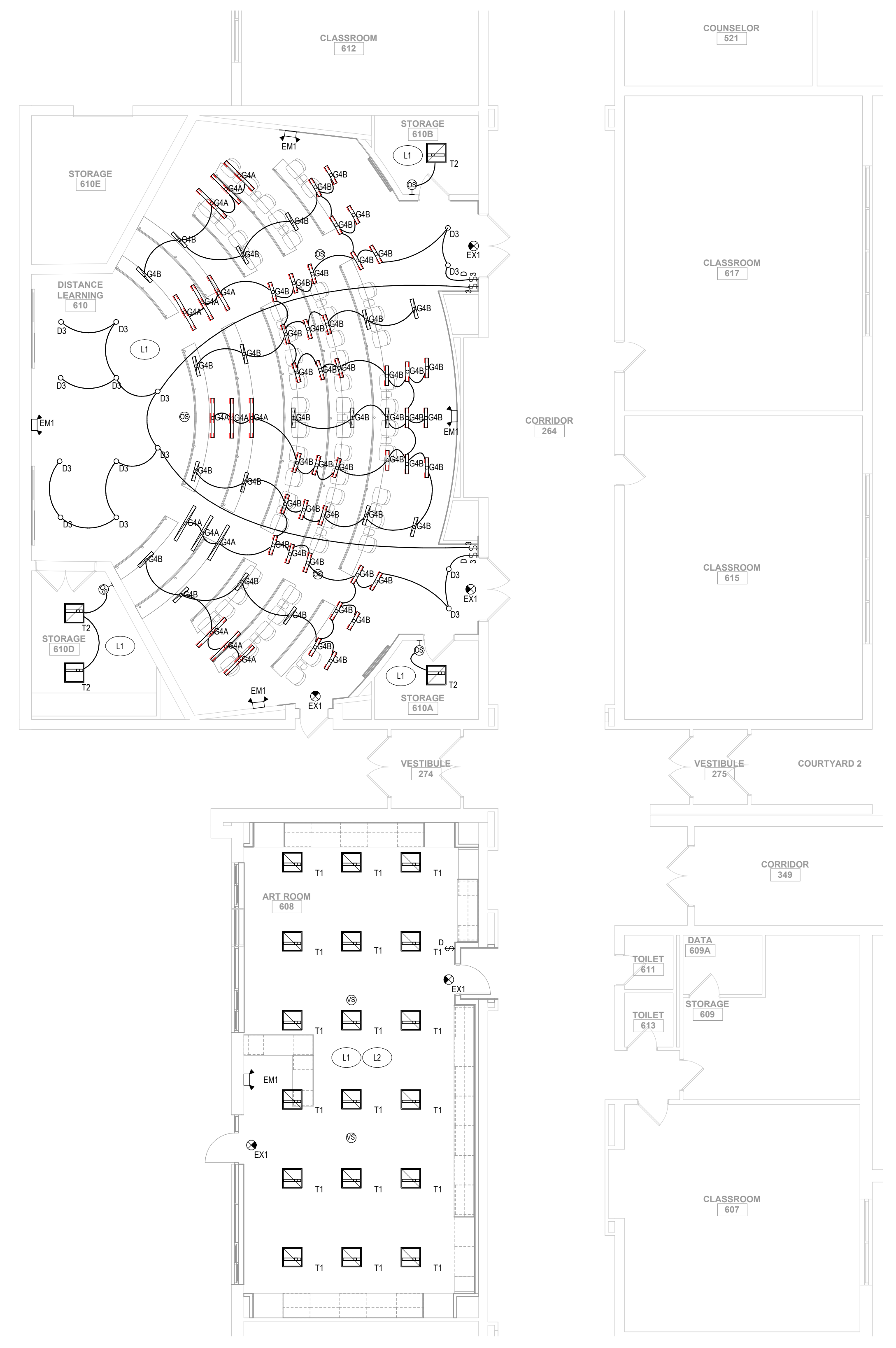
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REV	DATE	DESCRIPTION
DRAWN BY MAH / TMF		PROJECT NUMBER 2023-105
CHECKED BY SGV		DATE 12/16/2024
LIGHTING PLANS - FIRST FLOOR AREAS C & D		
BUILDING NUMBER HS	SHEET NUMBER E202 BID	

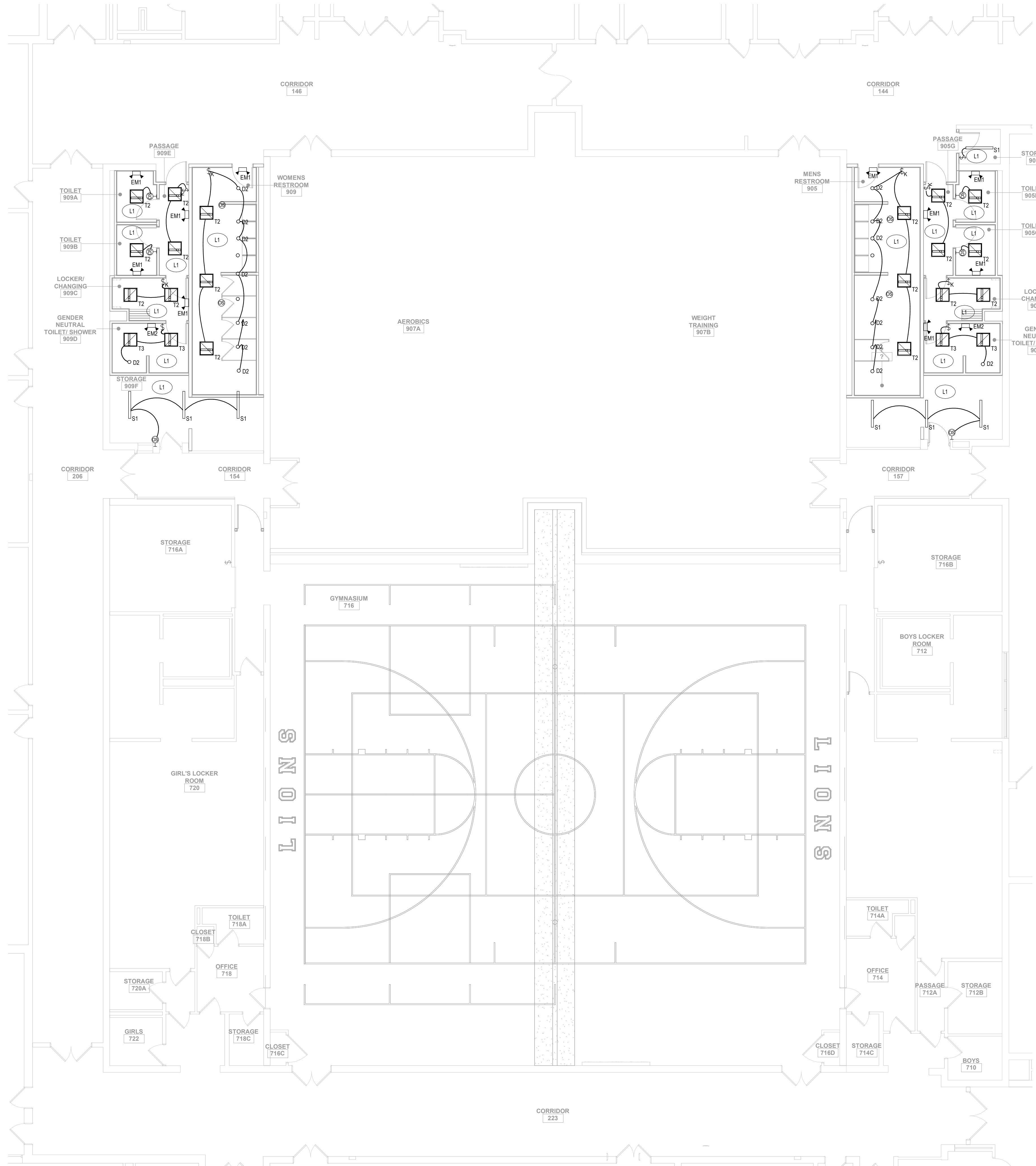
2 LIGHTING PLAN - FIRST FLOOR AREA D
 SCALE: 1/8" = 1'-0"



1 LIGHTING PLAN - FIRST FLOOR AREA C
 SCALE: 1/8" = 1'-0"



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1 LIGHTING PLAN - FIRST FLOOR AREA E
SCALE: 1/8" = 1'-0"

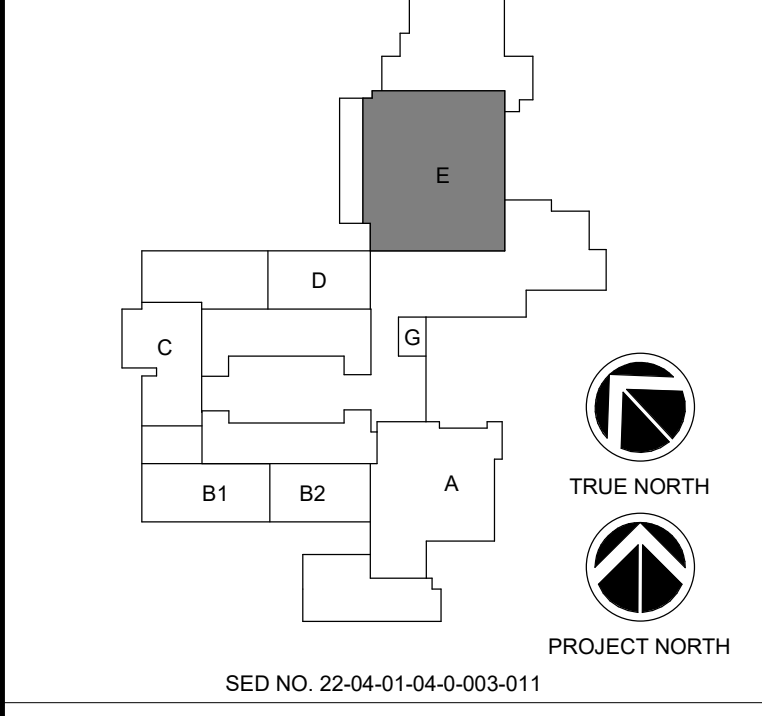
GENERAL NOTES:

- SEE DRAWING ES000 FOR APPLICABLE GENERAL NOTES, ABBREVIATIONS, SYMBOLS AND LEGENDS.
- AT UNDERCABINET FIXTURES "U": AT EXIT SIGNS AND AT EMERGENCY LIGHTING WALL PACKS: PROVIDE AN UN-SWITCHED HOT LEG FROM LIGHTING CIRCUIT IN AREA.

KEYNOTE LEGEND

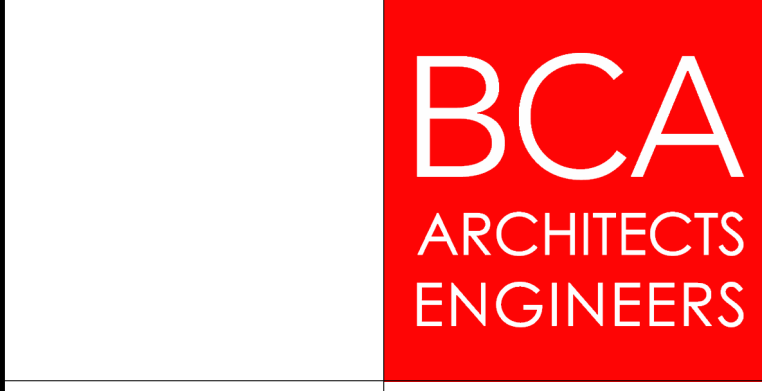
- L1 CIRCUIT NEW LIGHTING TO EXISTING ROOM LIGHTING CIRCUIT.

KEY PLAN:



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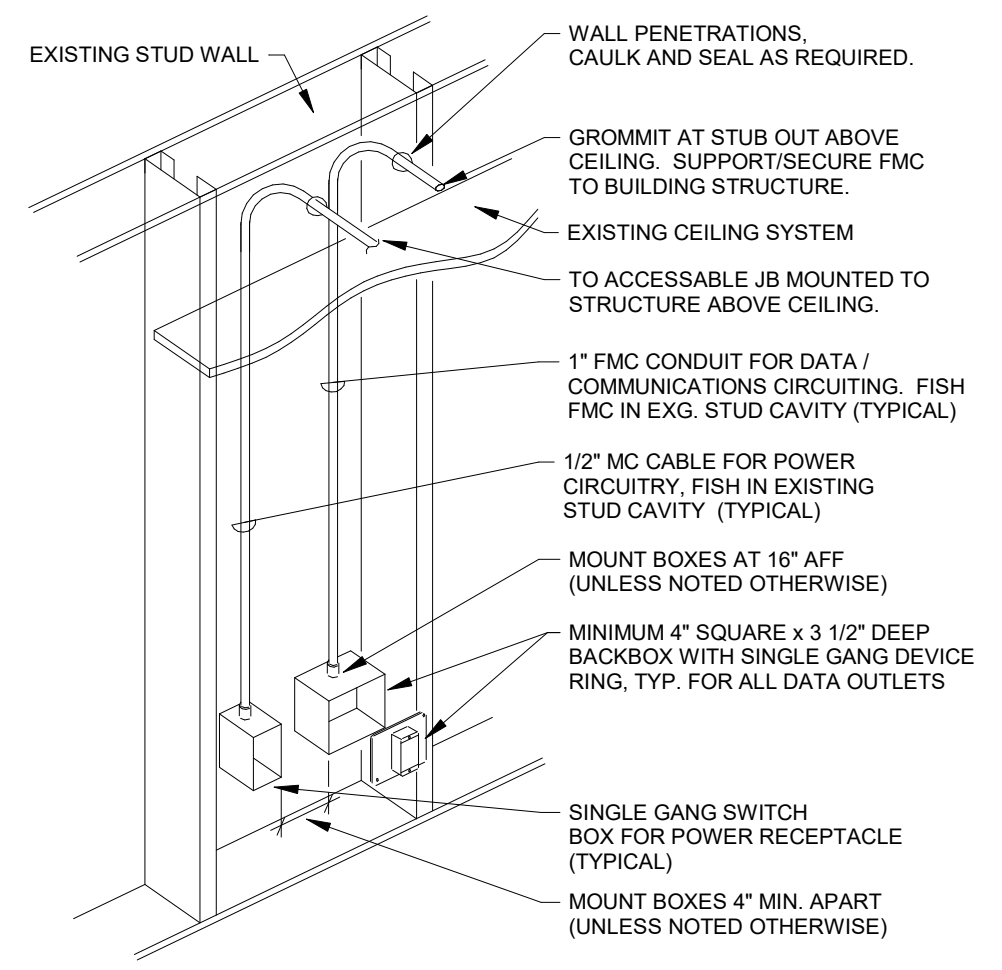
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REV	DATE	DESCRIPTION

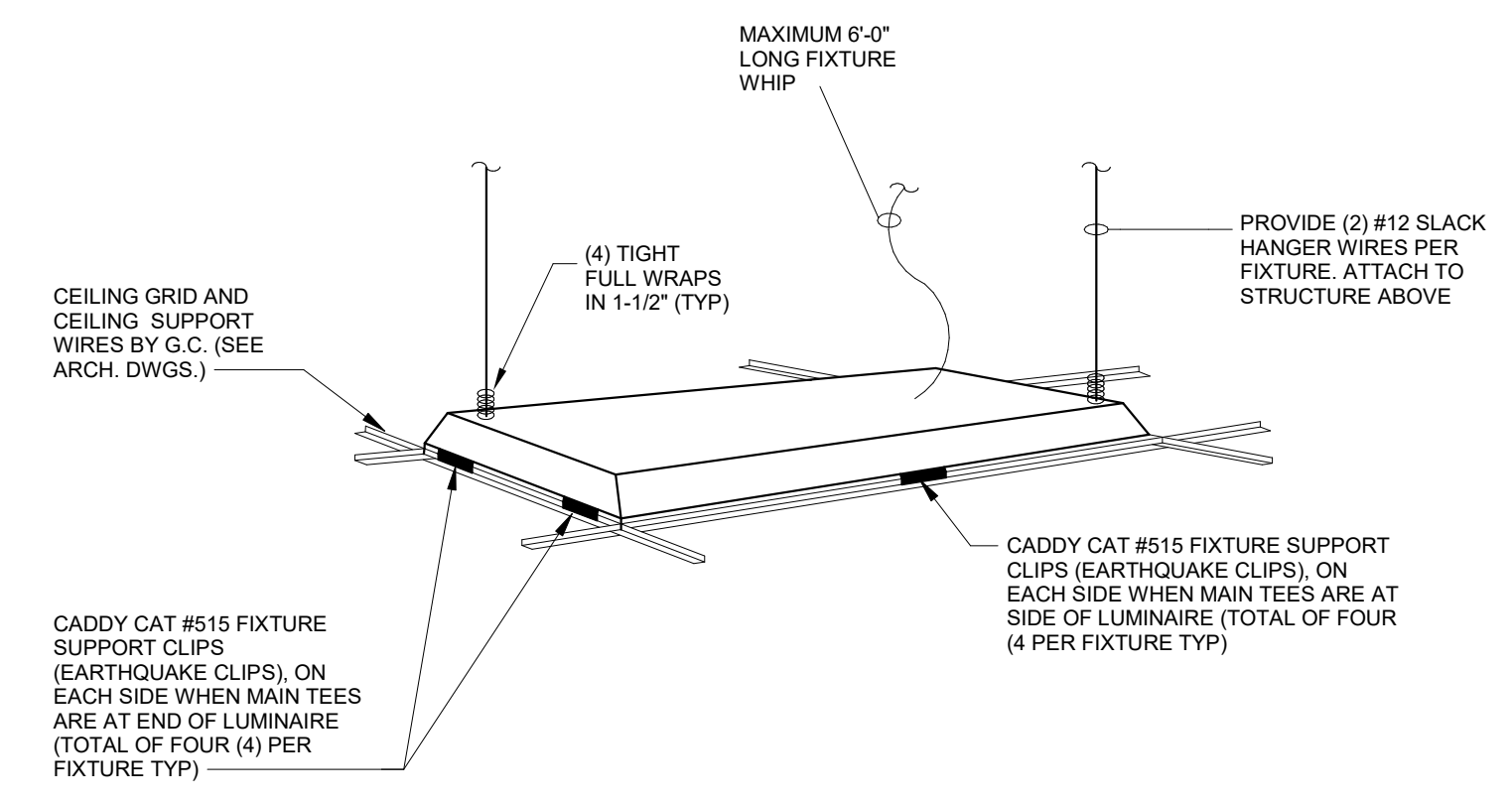
DRAWN BY MAH / TMF	PROJECT NUMBER 2023-105
CHECKED BY SGV	DATE 12/16/2024

LIGHTING PLAN - FIRST FLOOR AREA E

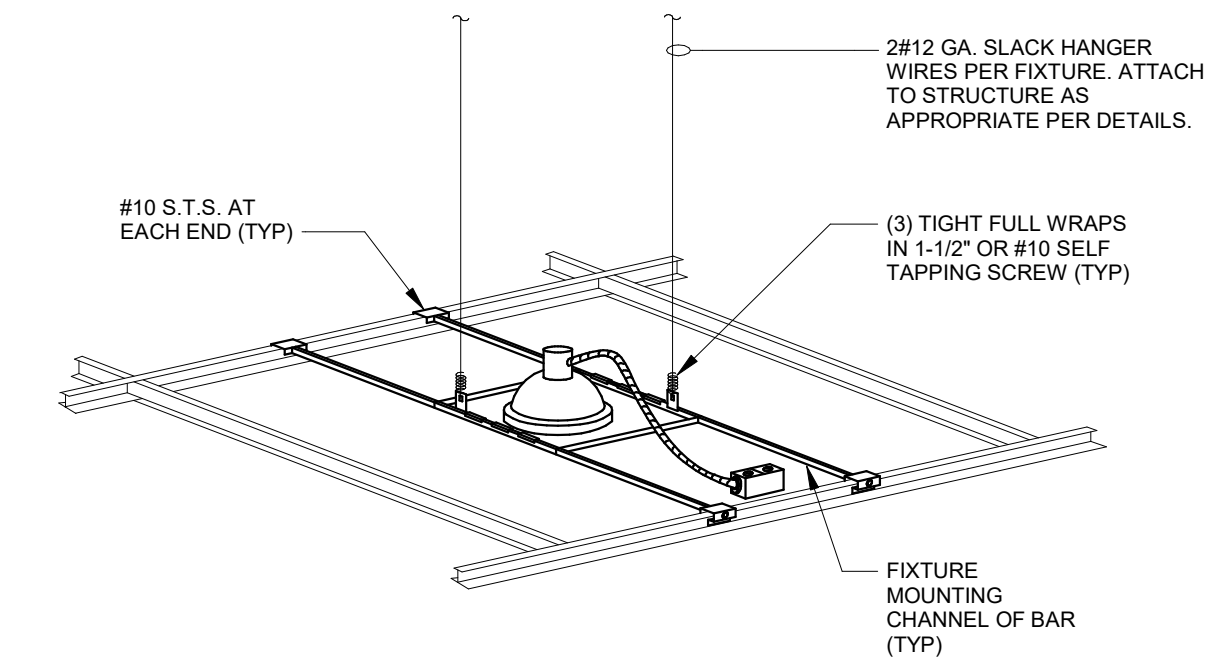
BUILDING NUMBER HS	SHEET NUMBER E203 BID
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4 CONDUIT BACKBOX INSTALLATION DETAIL
SCALE: NOT TO SCALE



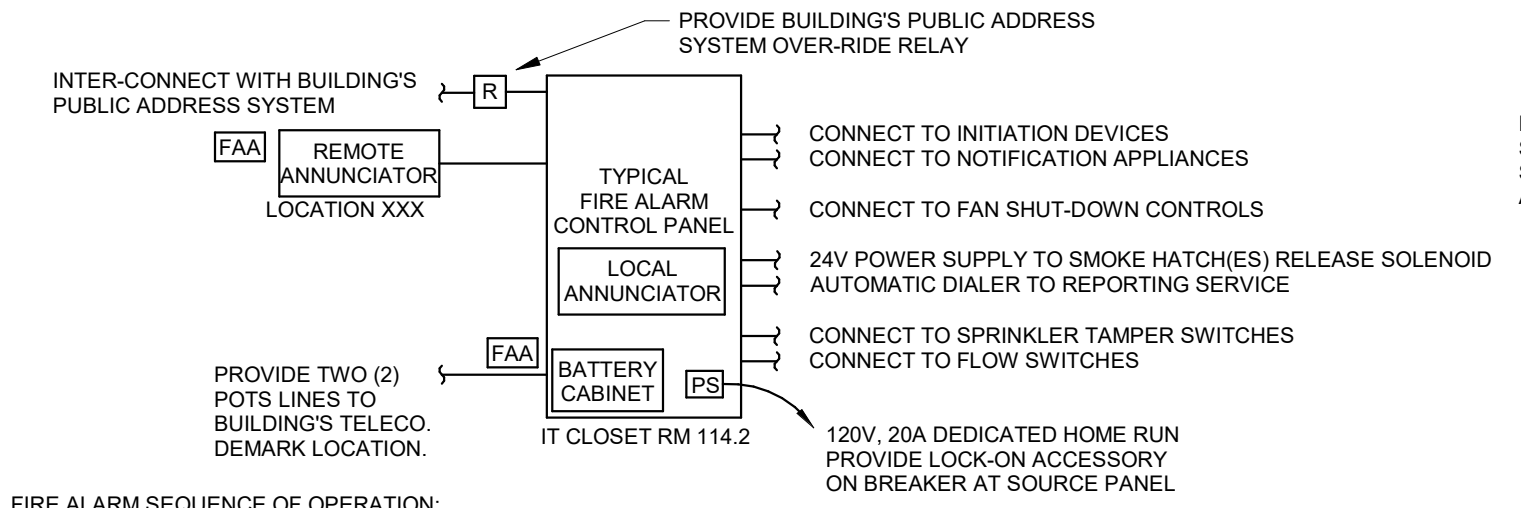
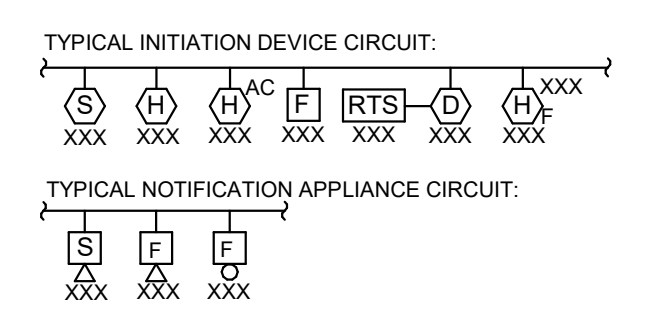
1 TYPICAL LAY-IN GRID RECESSED FIXTURE MOUNTING DETAIL
SCALE: NOT TO SCALE



2 RECESSED FIXTURE MOUNTING DETAIL
SCALE: NOT TO SCALE

PATHWAY, CIRCUIT, AND SURVIVABILITY	CLASS		SURVIVABILITY LEVEL			
	A	B	0	1	2	3
NOTIFICATION APPLIANCE CIRCUITS	•	•	•			
INITIATING DEVICE CIRCUIT		•	•			
SIGNAL LINE CIRCUIT	•		•			

GENERAL SCHEDULE NOTES:
 1. REFERENCE NFPA 72-2010, CHAPTER 12 FOR RACEWAY AND CABLE REQUIREMENTS ASSOCIATED WITH SURVIVABILITY RATINGS INDICATED.
 2. ALL FIRE ALARM CABLES SHALL BE FLENUM RATED AND INSTALLED ON J-HOOKS (MIN 4'-0" ON CENTER).



FIRE ALARM SEQUENCE OF OPERATION:

A. UPON ACTIVATION OF MANUAL PULL STATIONS, HEAT DETECTORS, SMOKE DETECTORS, DUCT DETECTORS IN RETURN AIR DUCTS OR FLOW SWITCHES, THE FIRE ALARM PANEL WILL GO INTO ALARM AND SOUND THE AVY HORNS. SHUT DOWN THE FANS, CONTACT THE LOCAL FIRE DEPARTMENT AND INDICATE WHICH DEVICE INITIATED THE ALARM VIA THE REMOTE ANNUNCIATOR IN THE MAIN OFFICE.

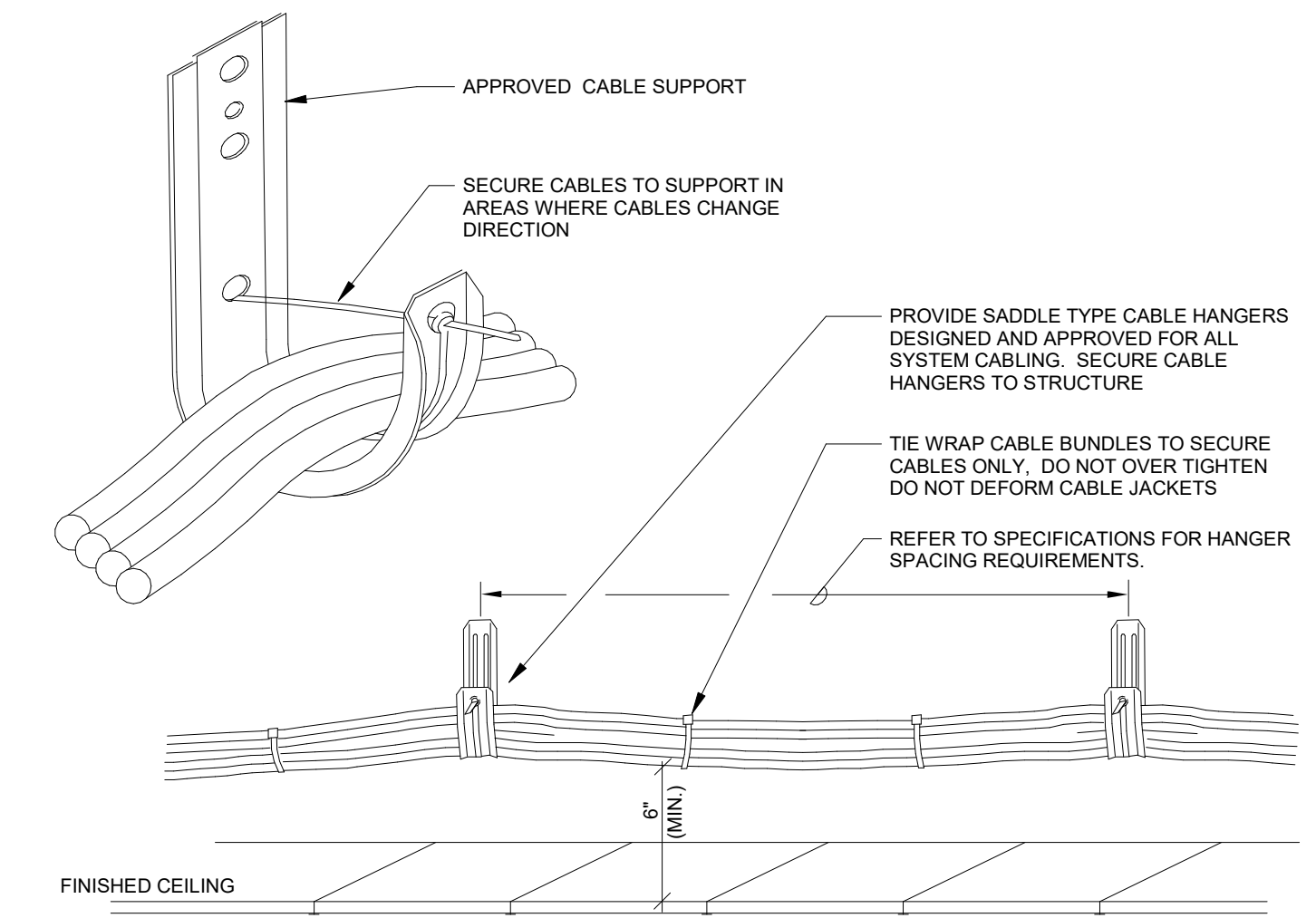
B. UPON ACTIVATION OF A FIRE ALARM TAMPERS SWITCH ON THE FIRE ALARM SYSTEM THE FIRE ALARM PANEL SHALL GO INTO 'TROUBLE' MODE.

NOTES:

A. FIRE ALARM RISER IS INTENDED TO BE SCHEMATIC ONLY. ALL DEVICES INDICATED ON PLANS AND DETAILS ARE TO BE INSTALLED AND CONNECTED FOR PROPER OPERATION OF SYSTEM.

B. FIRE ALARM CABLE TYPE AND SIZES TO BE AS SELECTED BY FACTORY NICET CERTIFIED DESIGNER UPON SUBMITTAL SUBMISSION.

5 TYPICAL FIRE ALARM RISER - NO VOICE NOTIFICATION SYSTEM
SCALE: NOT TO SCALE



INSTALLATION NOTES:

- LOCATE CABLE BUNDLES A MINIMUM OF 6" ABOVE REMOVABLE CEILINGS TO MAINTAIN CLEARANCE (ALONG WALLS WHERE POSSIBLE). LOCATE IN AREAS THAT ARE ACCESSIBLE.
- USE 2 OR MORE CABLE HANGERS AT ALL TURNS TO MAINTAIN MANUFACTURER'S BEND RADIUS REQUIREMENTS.
- REFER TO SPECIFICATIONS FOR ADDITIONAL CABLE AND HANGER INSTALLATION REQUIREMENTS.

3 TYPICAL J-HOOK CABLE HANGER
SCALE: NOT TO SCALE

GENERAL NOTES:
 1. SEE DRAWING ES000 FOR APPLICABLE GENERAL NOTES, ABBREVIATIONS, SYMBOLS AND LEGENDS

KEY PLAN:

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REV	DATE	DESCRIPTION

DRAWN BY TMF	PROJECT NUMBER 2023-105
CHECKED BY SGV	DATE 12/16/2024

ELECTRICAL DETAILS

BUILDING NUMBER HS	SHEET NUMBER E501 BID
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FEEDER TYPE	MINIMUM CONDUIT AND WIRE SCHEDULE					
	COPPER CONDUCTORS	CONDUIT SIZE				
#12	#12	20+H+GND	30+GND	30+H+GND	30+H+2GND	30+H+2GND
20	#12	#12	1 1/2"	1 1/2"	1 1/2"	3/4"
30	#10	#10	1 1/2"	1 1/2"	1 1/2"	3/4"
40	#8	#10	3/4"	3/4"	1"	1"
55	#6	#10	1"	1"	1"	1"
70	#4	#8	1 1/4"	1 1/4"	1 1/4"	1 1/4"
85	#3	#8	1 1/4"	1 1/4"	1 1/4"	1 1/2"
95	#2	#8	1 1/4"	1 1/4"	1 1/2"	1 1/2"
110	#1	#6	1 1/2"	1 1/2"	1 1/2"	2"
150	#10	#6	1 1/2"	1 1/2"	2"	2"
175	#20	#6	2"	2"	2"	2 1/2"
200	#30	#6	2"	2"	2"	2 1/2"
230	#40	#4	2"	2"	2 1/2"	2 1/2"
255	250 KCM	#4	2 1/2"	2 1/2"	2 1/2"	3"
285	300 KCM	#4	2 1/2"	3"	3"	3"
310	350 KCM	#3	3"	3"	3"	3 1/2"
335	400 KCM	#3	3"	3"	3"	3 1/2"
380	500 KCM	#3	3"	3"	3 1/2"	4"
510	(2) 250 KCM	(2) #1	(2) 2 1/2"	(2) 2 1/2"	(2) 3"	(2) 3"
570	(2) 300 KCM	(2) #1	(2) 2 1/2"	(2) 2 1/2"	(2) 3"	(2) 3 1/2"
620	(2) 350 KCM	(2) #1	(2) 3"	(2) 3"	(2) 3"	(2) 3 1/2"
760	(2) 500 KCM	(2) #10	(2) 3"	(2) 3"	(2) 3 1/2"	(2) 4"
1005	(3) 400 KCM	(3) #20	(3) 3"	(3) 3"	(3) 3"	(3) 3 1/2"
1240	(4) 350 KCM	(4) #30	(4) 3"	(4) 3"	(4) 3"	(4) 3 1/2"
1260	(3) 600 KCM	(3) #30	(3) 3 1/2"	(3) 3 1/2"	(3) 3 1/2"	(3) 5"
1675	(5) 400 KCM	(5) #40	(5) 3"	(5) 3"	(5) 3 1/2"	(5) 4"
1680	(4) 600 KCM	(4) #40	(4) 3 1/2"	(4) 3 1/2"	(4) 4"	(4) 5"
2010	(6) 400 KCM	(6) 250 KCM	(6) 3"	(6) 3"	(6) 3 1/2"	(6) 4"
2100	(5) 600 KCM	(5) 250 KCM	(5) 3 1/2"	(5) 3 1/2"	(5) 4"	(5) 5"
2520	(8) 600 KCM	(8) 350 KCM	(8) 3 1/2"	(8) 3 1/2"	(8) 4"	(8) 5"
2660	(7) 500 KCM	(7) 350 KCM	(7) 3 1/2"	(7) 3 1/2"	(7) 3 1/2"	(7) 5"
3040	(8) 500 KCM	(8) 400 KCM	(8) 3 1/2"	(8) 3 1/2"	(8) 3 1/2"	(8) 5"
4275	(8) 750 KCM	(8) 500 KCM	(8) 4"	(8) 4"	(8) 5"	(8) 5"

EQ EQUIPMENT FEEDER - REFER TO ELECTRICAL EQUIPMENT SCHEDULE

200 - 4 - 1G FEEDER DESIGNATION

GROUND CONDUCTORS:
 (0) - NO GROUND
 (1G) - EQUIPMENT GND OR ISOLATED GND
 (2G) - EQUIPMENT GND AND ISOLATED GND

SYSTEM DESCRIPTION:
 (3) - 10, 3W OR 30, 3W
 (4) - 30, 4W
 (5) - 30, 5W (2 NEUTRALS)

CONDUCTOR AMPACITY:
 (SEE FEEDER SCHEDULE)

GENERAL NOTES:

A. THE ABOVE FEEDER SCHEDULE IS A SCHEDULE OF TYPICAL FEEDERS AND SOME SIZES MAY NOT BE UTILIZED.

B. ALL CONDUCTOR AMPACITIES ARE BASED ON TABLE 310-15(B)(16) OF THE NEC FOR COPPER CONDUCTOR TYPE THW/THWN.

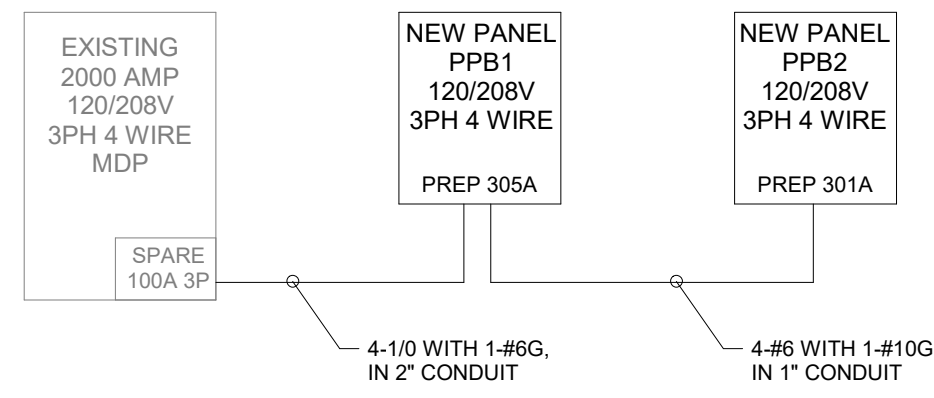
C. FEEDER SIZES SHOWN ON THE RISER DIAGRAM INDICATE FEEDER AMPACITIES AND DO NOT NECESSARILY CORRESPOND TO CIRCUIT BREAKER AMPACITIES. CERTAIN FEEDERS MAY BE SIZED FOR THE DERATION FACTORS REQUIRED BY CODE AND/OR ARE OVERSIZED FOR VOLTAGE DROP.

D. WHERE MULTIPLE CONDUITS AND CONDUCTORS ARE INDICATED FOR A SINGLE FEEDER, EACH CONDUIT SHALL CONTAIN 1 PARALLEL PHASE, NEUTRAL, AND GROUND CONDUCTORS INDICATED.

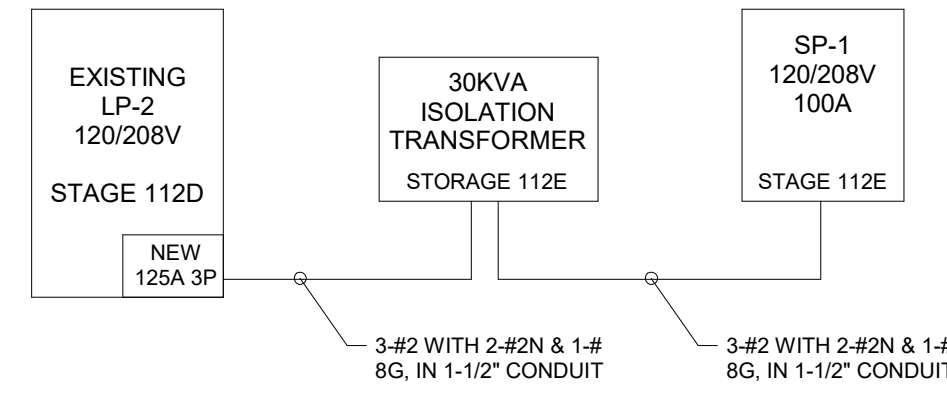
E. CONDUIT ABOVE GRADE INDOORS SHALL BE EMT. CONDUIT ABOVE GRADE OUTDOORS SHALL BE GALVANIZED IMC OR RMC. CONDUIT BELOW GRADE SHALL BE PVC WITH GALVANIZED RMC ELBOWS. CONDUIT SIZE INDICATED IS MINIMUM SIZE REGARDLESS OF CONDUIT TYPE.

F. CONDUITS SIZED LARGER THAN INDICATED SHALL BE PERMITTED FOR RUNS WITH UP TO (4) 90° ELBOWS, OR FOR PULLING LONGER RUNS.

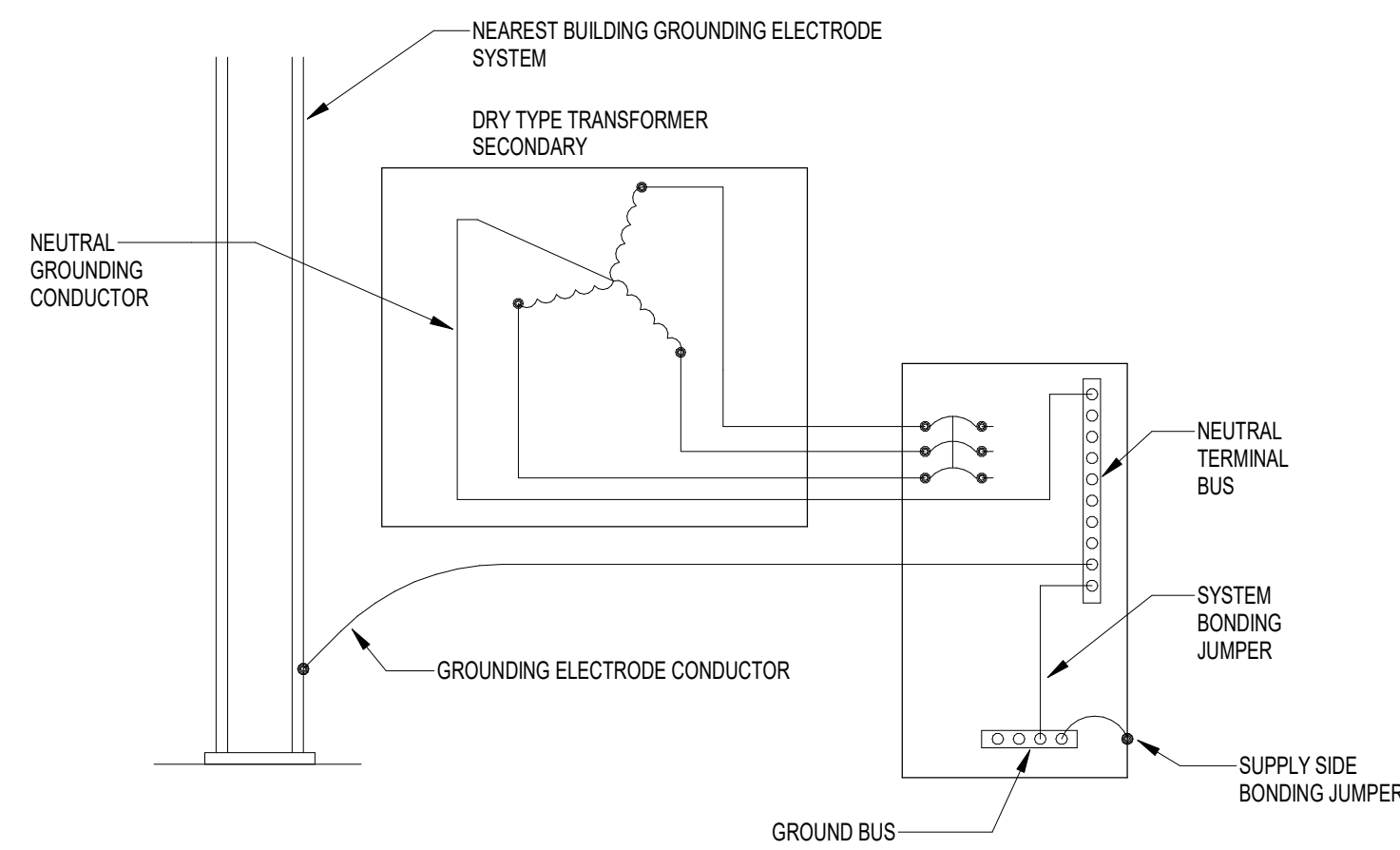
ID	LOCATION	NO.	MOTOR	EQUIPMENT INFORMATION				CIRCUIT INFORMATION				MOTOR STARTER				DISCONNECT				FIRE ALARM FAN SHUT-DOWN	DUCT MOUNTED SMOKE DETECTOR(S)	SCHEDULE NOTES	ID	
				FLA	MCA	BREAKER SIZE	VOLT	PH	PANEL	NO.	WIRE & CONDUIT SIZE	DESCRIPTION	NEMA ENCLOSURE	FURNISH	INSTALL	LOCATION	DESCRIPTION	NEMA ENCLOSURE	FURNISH					LOCATION
ACCU-1	ROOF	0	0.00 hp	8.2 A	14.2 A	20.0 A	208 V	1	LE-1	1.3	2#12 #12G, 1/2"	(none)	3R	HC	HC	AT UNIT	NON-FUSED	3R	HC	AT UNIT	(none)	(none)	ACCU-1	
ACCU-1A	ROOF	0	0.00 hp	67.4 A	84.3 A	90.0 A	208 V	3	LDP	14,16.18	3#4 #10G, 1"	(none)	3R	HC	HC	AT UNIT	NON-FUSED	3R	EC	AT UNIT	(none)	(none)	ALTERNATE ACCU-1A	
ACCU-2	ROOF	0	0.00 hp	8.2 A	14.2 A	20.0 A	208 V	1	LE-2	15.17	2#12 #12G, 1/2"	(none)	3R	HC	HC	AT UNIT	NON-FUSED	3R	HC	AT UNIT	(none)	(none)	ACCU-2	
ACCU-2A	ROOF	0	0.00 hp	67.4 A	84.3 A	90.0 A	208 V	3	LDP	23,22.24	3#4 #10G, 1"	(none)	3R	HC	HC	AT UNIT	NON-FUSED	3R	EC	AT UNIT	(none)	(none)	ALTERNATE ACCU-2A	
ACCU-3	ROOF	0	0.00 hp	8.2 A	14.2 A	20.0 A	208 V	1	LE-2	19.21	2#12 #12G, 1/2"	(none)	3R	HC	HC	AT UNIT	NON-FUSED	3R	HC	AT UNIT	(none)	(none)	ALTERNATE ACCU-3	
ACCU-3A	ROOF	0	0.00 hp	21.8 A	27.3 A	30.0 A	208 V	3	LP-11	30,32.34	3#10 #10G, 3/4"	(none)	3R	HC	HC	AT UNIT	NON-FUSED	3R	EC	AT UNIT	(none)	(none)	ALTERNATE ACCU-3A	
ACCU-4	ROOF	0	0.00 hp	8.2 A	14.2 A	20.0 A	208 V	1	LP-7	6.8	2#12 #12G, 1/2"	(none)	3R	HC	HC	AT UNIT	NON-FUSED	3R	HC	AT UNIT	(none)	(none)	ACCU-4	
ACCU-4A	ROOF	0	0.00 hp	27.3 A	34.1 A	35.0 A	208 V	3	LPH-2	17,19.21	3#8 #10G, 3/4"	(none)	3R	HC	HC	AT UNIT	NON-FUSED	3R	EC	AT UNIT	(none)	(none)	ALTERNATE ACCU-4A	
ACCU-5	ROOF	0	0.00 hp	98.4 A	123.0 A	150.0 A	208 V	3	MDP (SECT 2)	4	3#30 #6G, 2"	(none)	3R	HC	HC	AT UNIT	NON-FUSED	3R	EC	AT UNIT	(none)	(none)	ALTERNATE ACCU-5	
ACCU-6	ROOF	0	0.00 hp	98.4 A	123.0 A	150.0 A	208 V	3	MDP (SECT 2)	5	3#30 #6G, 2"	(none)	3R	HC	HC	AT UNIT	NON-FUSED	3R	EC	AT UNIT	(none)	(none)	ALTERNATE ACCU-6	
ACCU-7	ROOF	0	0.00 hp	8.2 A	14.2 A	20.0 A	208 V	1	LP-7	18.20	2#12 #12G, 1/2"	(none)	3R	HC	HC	AT UNIT	NON-FUSED	3R	HC	AT UNIT	(none)	(none)	ALTERNATE ACCU-7	
AHU-1A	MEZZANINE	0	0.00 hp	23.3 A	29.1 A	35.0 A	208 V	3	PP4	2.66	3#8 #10G, 3/4"	VFD	1	HC	HC	AT UNIT	NON-FUSED	1	EC	AT UNIT	(none)	(none)	ALTERNATE AHU-1A	
AHU-2A	MEZZANINE	0	0.00 hp	23.3 A	29.1 A	35.0 A	208 V	3	PP4	8,10.12	3#8 #10G, 3/4"	VFD	1	HC	HC	AT UNIT	NON-FUSED	1	EC	AT UNIT	(none)	(none)	ALTERNATE AHU-2A	
B-2	BOILER ROOM	708	0	0.00 hp	13.1 A	16.4 A	20.0 A	208 V	1	PP4A	37.39	3#12 #12G, 1/2"	MAGNETIC	1	HC	HC	BOILER ROOM	NON-FUSED	1	EC	BOILER ROOM	(none)	(none)	B-2
B-2A	BOILER ROOM	708	0	0.00 hp	13.1 A	16.4 A	20.0 A	208 V	1	PP4A	38.40	3#12 #12G, 1/2"	MAGNETIC	1	HC	HC	BOILER ROOM	NON-FUSED	1	EC	BOILER ROOM	(none)	(none)	B-2A
BP-2	BOILER ROOM	708	0	0.00 hp	4.7 A	6.8 A	20.0 A	120 V	1	PPB	36	2#12 #12G, 1/2"	MAGNETIC	1	HC	HC	BOILER ROOM	NON-FUSED	1	EC	BOILER ROOM	(none)	(none)	BP-2
BP-2A	BOILER ROOM	708	0	0.00 hp	4.7 A	6.8 A	20.0 A	120 V	1	PPB	38	2#12 #12G, 1/2"	MAGNETIC	1	HC	HC	BOILER ROOM	NON-FUSED	1	EC	BOILER ROOM	(none)	(none)	BP-2A
EF-300	ROOF	0	0.00 hp	1.9 A	2.4 A	20.0 A	208 V	3	LP-3	23,25.27	3#4 #10G, 1"	VFD	3R	HC	HC	AT UNIT	NON-FUSED	3R	HC	AT UNIT	(none)	(none)	ALTERNATE EF-300	
EF-301	ROOF	0	0.00 hp	1.9 A	2.4 A	20.0 A	208 V	3	LP-3	33,35.37	3#4 #10G, 1"	VFD	3R	HC	HC	AT UNIT	NON-FUSED	3R	HC	AT UNIT	(none)	(none)	ALTERNATE EF-301	
EF-302	ROOF	0	0.00 hp	1.9 A	2.4 A	20.0 A	208 V	3	LP-3	6,8.10	3#4 #10G, 1"	VFD	3R	HC	HC	AT UNIT	NON-FUSED	3R	HC	AT UNIT	(none)	(none)	ALTERNATE EF-302	
EF-303	ROOF	0	0.00 hp	1.9 A	2.4 A	20.0 A	208 V	3	LP-3	20,22.24	3#4 #10G, 1"	VFD	3R	HC	HC	AT UNIT	NON-FUSED	3R	HC	AT UNIT	(none)	(none)	ALTERNATE EF-303	
EF-305	ROOF	0	0.00 hp	1.9 A	2.4 A	20.0 A	208 V	3	LP-3	26,28.30	3#4 #10G, 1"	VFD	3R	HC	HC	AT UNIT	NON-FUSED	3R	HC	AT UNIT	(none)	(none)	ALTERNATE EF-305	
EF-307	ROOF	0	0.00 hp	1.9 A	2.4 A	20.0 A	208 V	3	LP-1	7,9.11	3#4 #10G, 1"	VFD	3R	HC	HC	AT UNIT	NON-FUSED	3R	HC	AT UNIT	(none)	(none)	ALTERNATE EF-307	
EF-599A	ROOF	0	0.00 hp	1.9 A	2.4 A	20.0 A	208 V	3	LP-5	35,37.39	3#4 #10G, 1"	VFD	3R	HC	HC	AT UNIT	NON-FUSED	3R	HC	AT UNIT	(none)	(none)	ALTERNATE EF-599A	
GMI-1	BOILER ROOM	708	0	0.00 hp	6.5 A	8.1 A	15.0 A	120 V	1	PP4	18	2#12 #12G, 1/2"	MAGNETIC	1	HC	HC	BOILER ROOM	NON-FUSED	1	EC	BOILER ROOM	(none)	(none)	GMI-1
HWP-11	BOILER ROOM	708	0	0.00 hp	10.4 A	12.9 A	20.0 A	208 V	3	PP4	31,33.35	3#12 #12G, 1/2"	VFD	1	HC	HC	BOILER ROOM	NON-FUSED	1	EC	BOILER ROOM	(none)	(none)	HWP-11
HWP-12	BOILER ROOM	708	0	0.00 hp	10.4 A	12.9 A	20.0 A	208 V	3	PP4	32,34.36	3#12 #12G, 1/2"	VFD	1	HC	HC	BOILER ROOM	NON-FUSED	1	EC	BOILER ROOM	(none)	(none)	HWP-12
HWP-13	BOILER ROOM	708	0	0.00 hp	31.1 A	38.8 A	40.0 A	208 V	3	PP4	38,40.42	3#8 #10G, 3/4"	VFD	1	HC	HC	BOILER ROOM	NON-FUSED	1	EC	BOILER ROOM	(none)	(none)	HWP-13
HWP-14	BOILER ROOM	708	0	0.00 hp	31.1 A	38.8 A	40.0 A	208 V	3	PP4	44,46.48	3#8 #10G, 3/4"	VFD	1	HC	HC	BOILER ROOM	NON-FUSED	1	EC	BOILER ROOM	(none)	(none)	HWP-14
MAU-1	STORAGE 609	0	0.00 hp	4.4 A	5.5 A	15.0 A	120 V	1	LPH-2	35	2#12 #12G, 1/2"	(none)	(none)	HC	HC	AT UNIT	NON-FUSED	1	EC	AT UNIT	(none)	(none)	MAU-1	
PRE-1	MEZZANINE	0	0.00 hp	1.3 A	1.6 A	15.0 A	120 V	1	LP-3	13	2#12 #12G, 1/2"	(none)	3R	HC	HC	AT UNIT	NON-FUSED	3R	HC	AT UNIT	(none)	(none)	PRE-1	
PRE-1A	ROOF	0	0.00 hp	9.7 A	12.1 A	20.0 A	208 V	3	LP-6	15,17.19	3#12 #12G, 1/2"	(none)	3R	HC	HC	AT UNIT	NON-FUSED	3R	HC	AT UNIT	(none)	(none)	ALTERNATE PRE-1A	
PRE-2	ROOF	0	0.00 hp	1.3 A	1.6 A	15.0 A	120 V	1	LP-3	2	2#12 #12G, 1/2"	(none)	3R	HC	HC	AT UNIT	NON-FUSED	3R	HC	AT UNIT	(none)	(none)	PRE-2	
PRE-2A	ROOF	0	0.00 hp	9.7 A	12.1 A	20.0 A	208 V	3	LP-7	21,23.25	3#12 #12G, 1/2"	(none)	3R	HC	HC	AT UNIT	NON-FUSED	3R	HC	AT UNIT	(none)	(none)	ALTERNATE PRE-2A	
PRE-3	ROOF	0	0.00 hp	1.3 A	1.6 A	15.0 A	120 V	1	LP-6	10	2#12 #12G, 1/2"	(none)	3R	HC	HC	AT UNIT	NON-FUSED	3R	HC	AT UNIT	(none)	(none)	PRE-3	
PRE-4	MEZZANINE	0	0.00 hp	1.3 A	1.6 A	15.0 A	120 V	1	LP-7	16	2#12 #12G, 1/2"	(none)	3R	HC	HC	AT UNIT	NON-FUSED	3R	HC	AT UNIT	(none)	(none)	PRE-4	
RP1-5	BOILER ROOM	708	0	0.00 hp	10.8 A	13.5 A	20.0 A	208 V	1	PPB	13.15	2#12 #12G, 1/2"	(none)	3R	HC	HC	AT UNIT	NON-FUSED	3R	HC	AT UNIT	(none)	(none)	RP1-5
RP1-5A	BOILER ROOM	708	0	0.00 hp	10.8 A	13.5 A	20.0 A	208 V	1	PPB	14.16	2#12 #12G, 1/2"	VFD	3R	HC	HC	AT UNIT	NON-FUSED	3R	HC	AT UNIT	(none)	(none)	RP1-5A
RTU-1	ROOF	0	0.00 hp	32.2 A	40.2 A	60.0 A	208 V	3	LP-3	7,9.11	3#4 #10G, 1"	VFD	3R	HC	HC	AT UNIT	NON-FUSED	3R	HC	AT UNIT	Y	Y	RTU-1	
RTU-2	ROOF	0	0.00 hp	59.5 A	74.4 A	110.0 A	208 V	3	LP-3	17,19.21	3#1 #6G, 1 1/2"	VFD	3R	HC	HC	AT UNIT	NON-FUSED	3R	HC	AT UNIT	Y	Y	RTU-2	
RTU-3	ROOF	0	0.00 hp	62.4 A	78.0 A	110.0 A	208 V	3	MDP (SECT 2)	8	3#1 #6G, 1 1/2"	VFD	3R	HC	HC	AT UNIT	NON-FUSED	3R	HC	AT UNIT	Y	Y	RTU-3	
RTU-3A	ROOF	0	0.00 hp	15.8 A	19.8 A	25.0 A	208 V	3	LP-1	20,22.24	3#4 #10G, 1"	VFD	3R	HC	HC	AT UNIT	NON-FUSED	3R	HC	AT UNIT	Y	Y	ALTERNATE RTU-3A	
RTU-4	ROOF	0	0.00 hp	62.4 A	78.0 A	110.0 A	208 V	3	MDP (SECT 2)	7	3#1 #6G, 1 1/2"	VFD	3R	HC	HC	AT UNIT	NON-FUSED	3R	HC	AT UNIT	Y	Y	RTU-4	
RTU-4A	ROOF	0	0.00 hp	15.8 A	19.8 A	25.0 A	208 V	3	LP-1	14,16.18	3#4 #10G, 1"	VFD	3R	HC	HC	AT UNIT	NON-FUSED	3R	HC	AT UNIT	Y	Y	ALTERNATE RTU-4A	
RTU-5	ROOF	0	0.00 hp	61.1 A	76.4 A	110.0 A	208 V	3	MDP (SECT 2)	6	3#1 #6G, 1 1/2"													



1 PARTIAL ONE-LINE
SCALE: NOT TO SCALE



2 AV PARTIAL ONE-LINE
SCALE: 12" = 1'-0"



3 SEPARATELY DERIVED SYSTEM GROUND DETAIL
SCALE: NTS

Panel: PPB1
Location: PREP 305A
Supply From: MDP
Mounting: RECESSED
Enclosure: NEMA1

Volts: 208Y/120
Phases: 3
Wires: 4

A.I.C. Rating: 10,000 AMPS SYMMETRICAL
Mains Type: MCB
Mains Rating: 100.0 A
MCB Rating: 100 AMP MCB
Accessories:

Notes:

CKT	Circuit Description	Trip	Poles	Poles	Trip	Circuit Description	CKT
1	RECEPTACLE RM 305	20 A	1	1	20 A	RECEPTACLE RM 305	2
3	RECEPTACLE RM 305	20 A	1	1	20 A	RECEPTACLE RM 305	4
5	RECEPTACLE RM 305	20 A	1	1	20 A	RECEPTACLE RM 305	6
7	RECEPTACLE RM 305	20 A	1	1	20 A	RECEPTACLE RM 305A	8
9	RECEPTACLE RM 303	20 A	1	1	20 A	RECEPTACLE RM 303	10
11	RECEPTACLE RM 303	20 A	1	1	20 A	RECEPTACLE RM 303	12
13	RECEPTACLE RM 303	20 A	1	1	20 A	RECEPTACLE RM 303	14
15	RECEPTACLE RM 303	20 A	1	1	20 A	RECEPTACLE RM 307	16
17	RECEPTACLE RM 307	20 A	1	1	20 A	RECEPTACLE RM 307	18
19	RECEPTACLE RM 307	20 A	1	1	20 A	RECEPTACLE RM 307	20
21	RECEPTACLE RM 307	20 A	1	1	20 A	SPARE	22
23	RECEPTACLE RM 307	20 A	1	1	20 A	SPARE	24
25	SPARE	20 A	1				26
27	SPARE	20 A	1				28
29	SPARE	20 A	1	3	50 A	PANEL PPB2	30

Panel: PPB2
Location: PREP 301A
Supply From: PPB1
Mounting: RECESSED
Enclosure: NEMA1

Volts: 208Y/120
Phases: 3
Wires: 4

A.I.C. Rating: 10,000 AMPS SYMMETRICAL
Mains Type: MCB
Mains Rating: 100.0 A
MCB Rating: 50 AMP MCB
Accessories:

Notes:

CKT	Circuit Description	Trip	Poles	Poles	Trip	Circuit Description	CKT
1	RECEPTACLE RM 300	20 A	1	1	20 A	RECEPTACLE RM 300	2
3	RECEPTACLE RM 300	20 A	1	1	20 A	RECEPTACLE RM 300	4
5	RECEPTACLE RM 300	20 A	1	1	20 A	RECEPTACLE RM 300A	6
7	RECEPTACLE RM 300A	20 A	1	1	20 A	RECEPTACLE RM 301	8
9	RECEPTACLE RM 301	20 A	1	1	20 A	RECEPTACLE RM 301	10
11	RECEPTACLE RM 301	20 A	1	1	20 A	RECEPTACLE RM 301	12
13	RECEPTACLE RM 301A	20 A	1	1	20 A	RECEPTACLE RM 302	14
15	RECEPTACLE RM 302	20 A	1	1	20 A	RECEPTACLE RM 302	16
17	RECEPTACLE RM 302	20 A	1	1	20 A	RECEPTACLE RM 302	18
19	RECEPTACLE RM 302	20 A	1	1	20 A	RECEPTACLE RM 302	20
21	RECEPTACLE RM 302	20 A	1	1	20 A	RECEPTACLE RM 302	22
23	RECEPTACLE RM 600	20 A	1	1	20 A	RECEPTACLE RM 600	24
25	SPARE	20 A	1	1	20 A	SPARE	26
27	SPARE	20 A	1	1	20 A	SPARE	28
29	SPARE	20 A	1	1	20 A	SPARE	30

Panel: LPN1
Location: JANITOR 211
Supply From: SURFACE
Enclosure: NEMA1

Volts: 208Y/120
Phases: 3
Wires: 4

A.I.C. Rating: 10,000 AMPS SYMMETRICAL
Mains Type: MLO
Mains Rating: 225.0 A
MCB Rating: 1.0 A
Accessories:

Notes:

CKT	Circuit Description	Trip	Poles	Poles	Trip	Circuit Description	CKT
1	LIGHTS RM 106E	20 A	1	1	20 A	LIGHTS RM 100,104A,104B	2
3	LIGHTS RM 105,107	20 A	1	1	20 A	LIGHTS WORK RM	4
5	LIGHTS RM 209	20 A	1	1	20 A	LIGHTS RM 201	6
7	LIGHTS RM 212	20 A	1	1	20 A	LIGHTS RM 210	8
9	LIGHTS RM 208	20 A	1	1	20 A	LIGHTS RM 206	10
11	LIGHTS RM 204	20 A	1	1	20 A	LIGHTS RM 200	12
13	SPARELIGHTS CORRIDOR	20 A	1	1	20 A	LIGHTS EXTERIOR	14
15	LIGHTS EXIT	20 A	1	1	20 A	RECEPTACLE RM 105	16
17	RECEPTACLE RM 105,107	20 A	1	1	20 A	RECEPTACLE RM 107	18
19	RECEPTACLE RM 100,101,103,HALL	20 A	1	1	20 A	RECEPTACLE RM 209	20
21	RECEPTACLE RM 203	20 A	1	1	20 A	RECEPTACLE RM 203	22
23	RECEPTACLE RM 203,206 HALLWAY	20 A	1	1	20 A	RECEPTACLE RM 201	24
25	RECEPTACLE RM 201	20 A	1	1	20 A	RECEPTACLE RM 100	26
27	RECEPTACLE RM 100	20 A	1	1	20 A	RECEPTACLE RM 212	28
29	RECEPTACLE RM 210	20 A	1	1	20 A	RECEPTACLE RM 210	30
31	RECEPTACLE VOCAL MUSIC 100	20 A	1	1	20 A	RECEPTACLE RM 100B, 100A	32
33	RECEPTACLE RM 106D, 106E	20 A	1	1	20 A	RECEPTACLE BAND ROOM 106	34
35	RECEPTACLE BAND ROOM 106	20 A	1	1	20 A	RECEPTACLE RM 106A, 106B	36
37	SPARE	20 A	1	1	20 A	SPARE	38
39	SPARE	20 A	1	1	20 A	SPARE	40
41	SPARE	20 A	1	1	20 A	SPARE	42

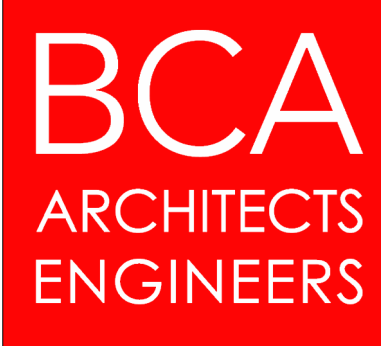
GENERAL NOTES:
1. SEE DRAWING ES000 FOR APPLICABLE GENERAL NOTES, ABBREVIATIONS, SYMBOLS AND LEGENDS

KEY PLAN:

SED NO. 22-04-01-04-0-003-011

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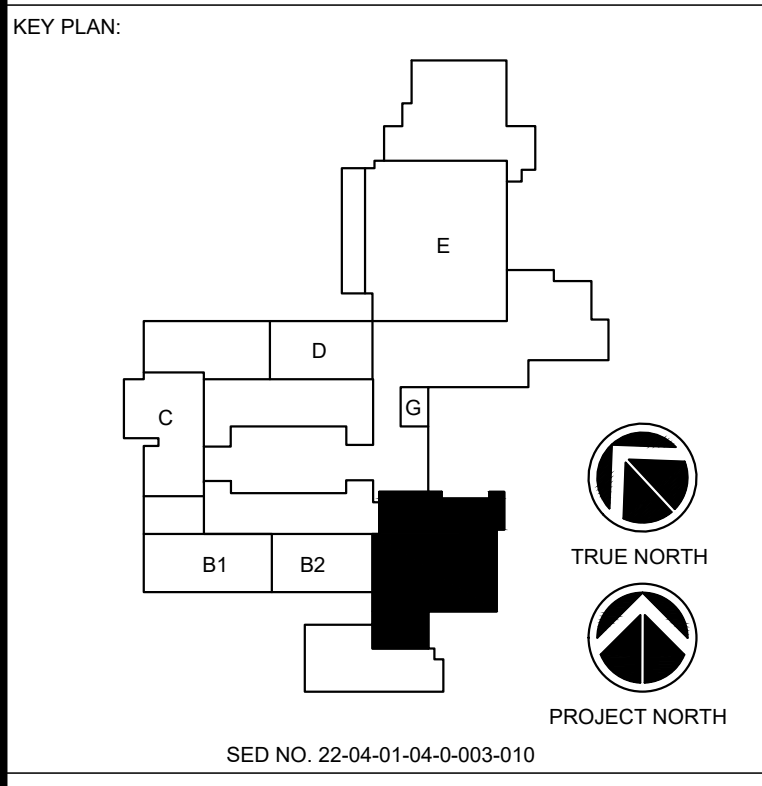
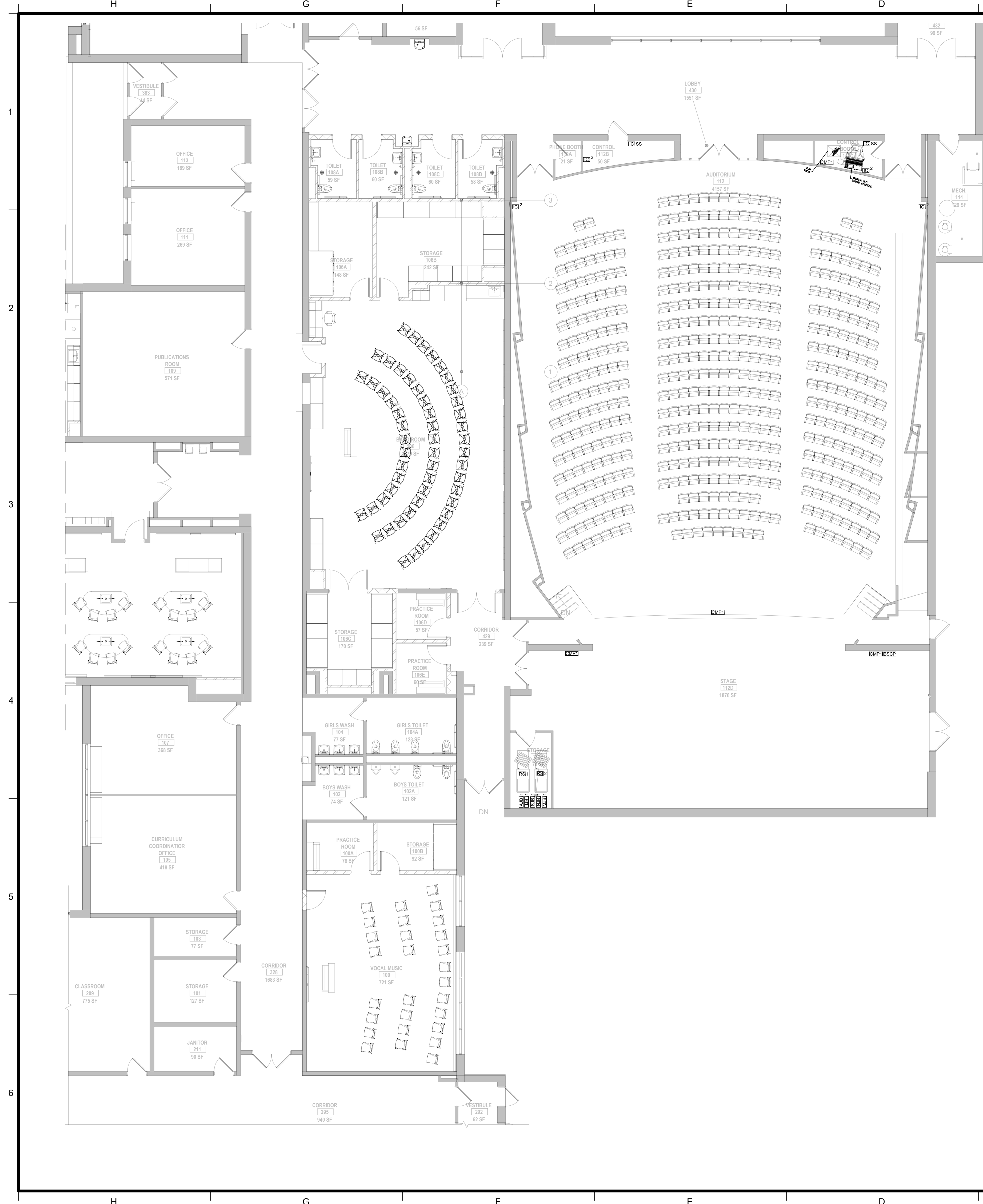
GENERAL BROWN CSD
JUNIOR SENIOR HIGH SCHOOL
17643 CEMETERY RD
DEXTER - JEFFERSON - NEW YORK

REV	DATE	DESCRIPTION

DRAWN BY TMF	PROJECT NUMBER 2023-105
CHECKED BY SGV	DATE 12/16/2024

ELECTRICAL SCHEDULES

BUILDING NUMBER HS	SHEET NUMBER E601 BID
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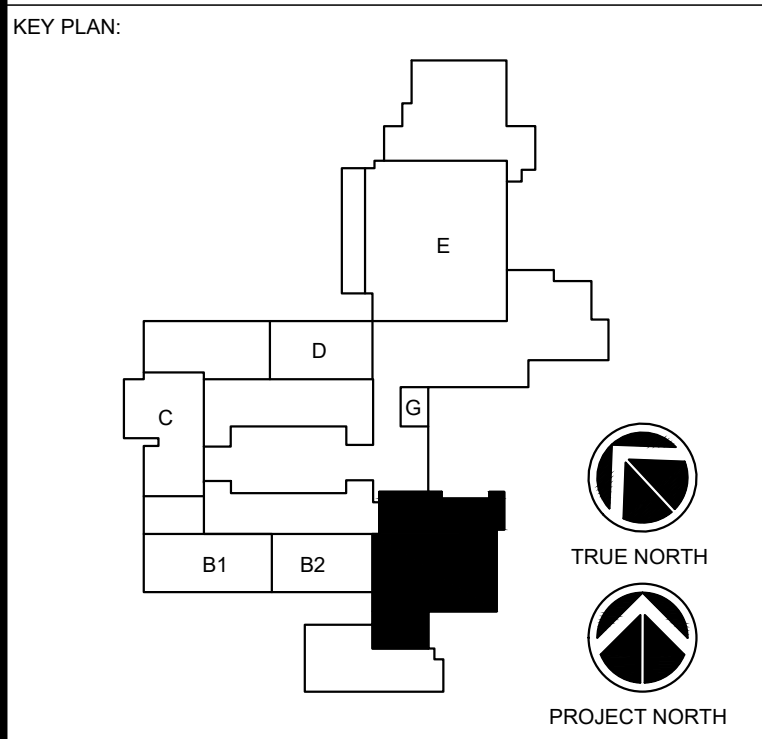
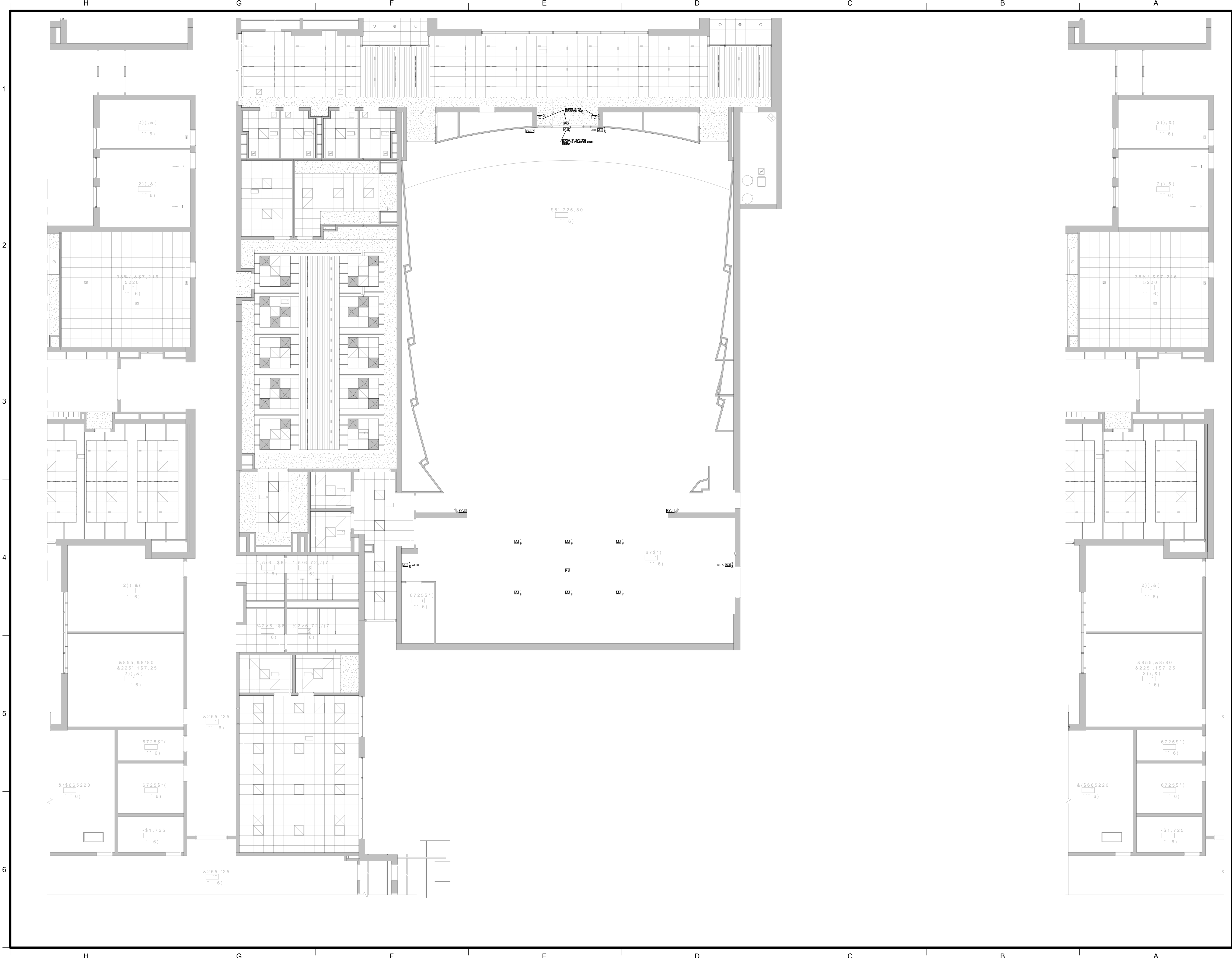
KEY PLAN:
 SED NO. 22-04-01-04-0-003-010
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REV	DATE	DESCRIPTION
DRAWN BY	RC	PROJECT NUMBER 2023-105
CHECKED BY	SCS	DATE 12/16/2024
AUDITORIUM AV SYSTEM LOWER DEVICE PLAN		
BUILDING NUMBER	HS	SHEET NUMBER TS100 BID



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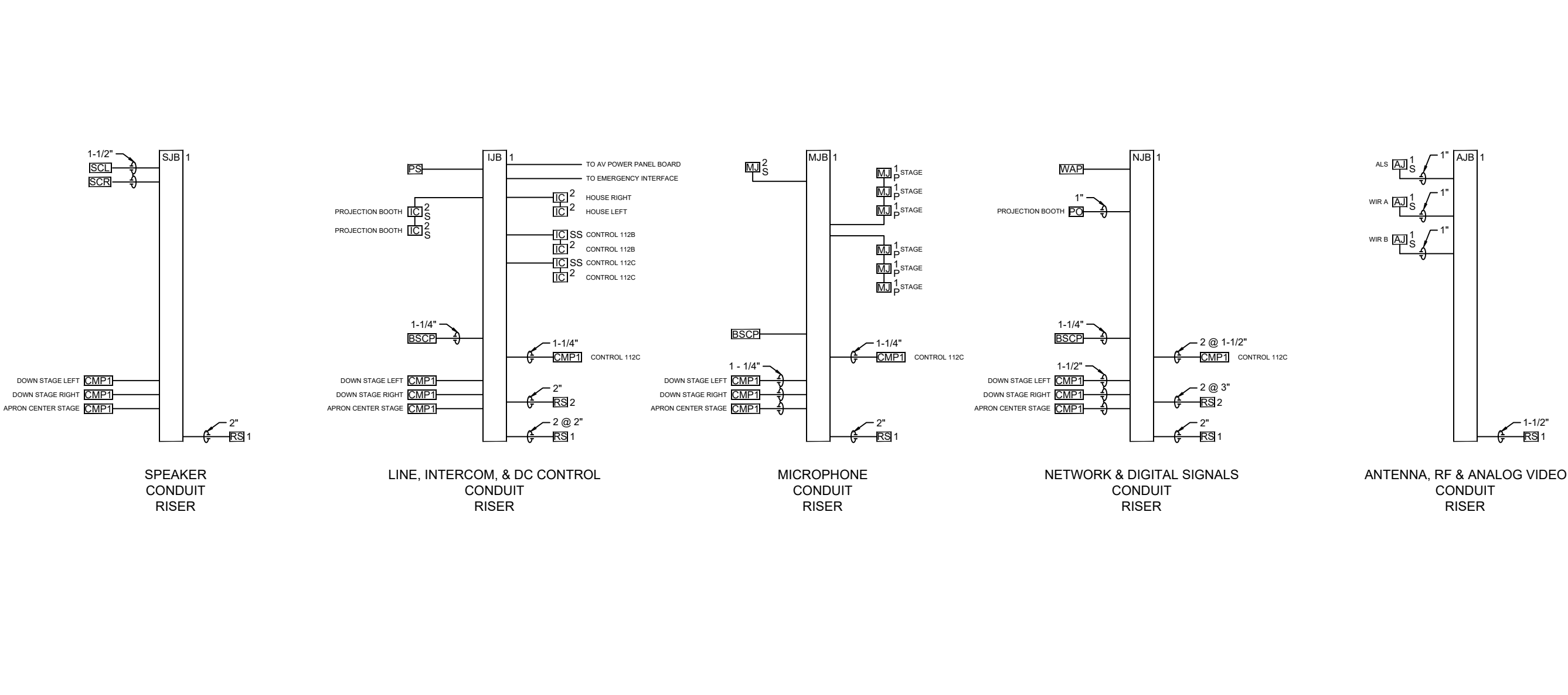
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REV	DATE	DESCRIPTION

DRAWN BY RC	PROJECT NUMBER 2023-105
CHECKED BY SCS	DATE 12/16/2024

**AUDITORIUM AV SYSTEM
 UPPER DEVICE PLAN**

BUILDING NUMBER HS	SHEET NUMBER TS101 BID
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AUDIO VIDEO SYSTEM CONDUIT RISERS NOTES

DEFINITIONS:

- FURNISHED - TO SUPPLY THE EQUIPMENT OR DEVICE NEEDED.
- INSTALL - TO PROPERLY PLACE AND ATTACH THE EQUIPMENT OR DEVICE.
- PROVIDED - EQUIPMENT OR DEVICES THAT ARE FURNISHED AND INSTALLED.

NOTES:

- ALL BACKBOXES PROVIDED BY ELECTRICAL CONTRACTOR UNLESS OTHERWISE NOTED.
- ALL BACKBOXES FURNISHED BY OTHERS ARE INSTALLED BY ELECTRICAL CONTRACTOR.
- ALL LINE & LOAD CONDUIT, WIRE, AND TERMINATIONS PROVIDED BY ELECTRICAL CONTRACTOR.
- ALL CONTROL CONDUIT, JUNCTION BOXES, AND HARDWARE PROVIDED BY ELECTRICAL CONTRACTOR.
- ALL CONTROL WIRE AND TERMINATIONS PROVIDED BY AUDIO VIDEO CONTRACTOR UNLESS OTHERWISE NOTED.
- REVIEW ANY RELATED RISER DIAGRAM, DEVICE LEGEND, FLOOR PLAN, AND CIRCUIT DISTRIBUTION DOCUMENTS FOR DETAILS.
- ALL CONDUIT IS 3/4" UNLESS NOTED OTHERWISE.
- ELECTRICAL CONTRACTOR SHALL INSTALL A PULL STRING IN ALL CONDUIT. FLAG EACH PULL STRING WITH UNIQUE CONDUIT NUMBER.
- ELECTRICAL CONTRACTOR SHALL INSTALL PLASTIC BUSHINGS ON ALL CONDUIT ENDS.
- DEVICES SHOWN ON THESE DRAWINGS ARE FOR REFERENCE ONLY. AV CONTRACTOR SHALL SUBMIT SHOP DRAWINGS SHOWING LOCATIONS OF ALL DEVICES AND EQUIPMENT ALONG WITH CATALOG CUT SHEETS. FINAL LOCATION OF ALL DEVICES SHALL BE BASED ON APPROVED AV CONTRACTOR SHOP DRAWINGS AND COORDINATION WITH AV CONTRACTOR.

AUDITORIUM AUDIO VIDEO POWER

1. AUDIO VIDEO SYSTEM TRANSFORMER:

- A DEDICATED 30 KVA TRANSFORMER SHALL FEED ONLY THE AUDIO VIDEO SYSTEM.
- THE TRANSFORMER SHALL BE K4 RATED.
- THE NEUTRAL FEED CONDUCTOR SHALL BE SIZED AT 200% OF THE PHASE CONDUCTORS.
- FOR CONDUCTOR SIZING AND CONDUIT FILL, ALL NEUTRAL FEED CONDUCTORS ARE CONSIDERED CURRENT CARRYING CONDUCTORS.
- THE TRANSFORMER WILL FEED ONE AUDIO VIDEO POWER PANEL BOARD.

2. AUDIO VIDEO POWER PANEL BOARD DATA:

- THE AUDIO VIDEO POWER PANEL BOARD SHALL BE A LYNTEC MODEL RCP 341 SERIES REMOTE CONTROLLED MODULAR SEQUENCING PANEL (RCP SERIES PANEL BOARD, 3 PHASE, 41 AVAILABLE CIRCUIT BREAKER SPACES, 30 CHANNEL SEQUENCER CAPACITY).
- THE PANEL BOARD FEED SHALL BE 125 AMP, THREE PHASE, 120V/208V, FOUR WIRE PLUS GROUND, WITH THE NEUTRAL CONDUCTOR SIZED AT 200% OF THE PHASE CONDUCTOR AMPACITY.
- THE PANEL BOARD SHALL INCLUDE A 125 AMP MAIN BREAKER.
- THE PANEL BOARD WILL INCLUDE A LYNTEC SDCX SERIES 10 MODULE POWER CONDITIONING SIDECAR.
- ALL AUDIO VIDEO SYSTEM POWER CIRCUITS SHALL ORIGINATE FROM THE DEDICATED AUDIO VIDEO POWER PANEL BOARD.
- THE PANEL BOARD & SIDECAR COMBINED DIMENSIONS ARE 36" WIDE, 50" TALL AND 6.13" DEEP.
- THE PANEL BOARD IS CONFIGURED FOR BOTTOM FEEDER ACCESS.
- ALL CIRCUITS SHALL BE DEDICATED 120V, 20 AMP UNLESS OTHERWISE NOTED.
- ALL 120V CIRCUITS SHALL HAVE DEDICATED NEUTRAL CONDUCTORS.
- THE AUDIO VIDEO PANEL BOARD WILL BE FURNISHED BY THE AUDIO AND VIDEO CONTRACTOR.
- THE AUDIO VIDEO PANEL BOARD WILL BE INSTALLED BY THE ELECTRICAL CONTRACTOR.
- ALL BRANCH CIRCUIT EQUIPMENT PROVIDED BY THE ELECTRICAL CONTRACTOR.

3. EQUIPMENT RACK POWER: ALL RACK POWER SHALL TERMINATE IN A JBOX WITHIN EACH RACK. THIS JBOX AND ALL INTERNAL RACK POWER WIRING WILL BE PROVIDED BY THE THEATRICAL AUDIO AND VIDEO CONTRACTOR. ALL OTHER WIRING, CONDUIT, ETC SHALL BE PROVIDED BY THE ELECTRICAL CONTRACTOR.

4. EMERGENCY INTERFACE - THE AUDIO VIDEO SYSTEM INCLUDES THE ABILITY FOR EMERGENCY OVERRIDE THAT WHEN TRIGGERED WILL MUTE THE ENTIRE SYSTEM. THIS OVERRIDE INTERFACES WITH THE EMERGENCY SYSTEM VIA A SET OF CONTACTS LOCATED WITHIN RSI1. THE FIRE ALARM CONTRACTOR SHALL PROVIDE A DEVICE OR INTERFACE AND ALL WIRING TO LOCATE A NORMALLY OPEN SET OF DRY CONTACTS AT RSI1. ALL OPERATIONAL PARAMETERS AND DETAILS INVOLVED IN ACTUALLY TRIGGERING THE EMERGENCY OVERRIDE ARE LEFT TO THE RELEVANT PROJECT ENGINEERS.

Breaker number(s)	Location	Sequenced ? (breaker # = sequence order)	Conditioner channel	Receptacle & Notes
1	Sound booth next to CMP1 device	Yes	1	L5-20 receptacle
2	Sound booth next to CMP1 device	Yes	2	Quad receptacle
3	SSCP	Yes	3	Jbox
4	RS2	No	4	Jbox
5	RS1	Yes	5	Jbox
6, 7, 8	RS2	Yes	6, 7, 8	Jbox
9, 10, 11, 12	RS1	Yes	Not conditioned	Jbox
13	Next to PO device	Yes	Not conditioned	L5-20 receptacle
14 & 16	Next to PO device	Yes	Not conditioned	L5-30 receptacle Note - this is a 208V 30A circuit
15	Next to C, JFOH device	Yes	Not conditioned	Duplex receptacle
17	Next to WAP device	Yes	Not conditioned	Duplex receptacle
18	EXISTING Projection screen device PS	Yes	Not conditioned	Screen terminal box
19	Apron next to CMP1 device	No	Not conditioned	Quad receptacle
20	Down stage right next to CMP1 device	No	Not conditioned	Quad receptacle
21	Down stage left next to CMP1 device	No	Not conditioned	Quad receptacle
22-41	Spare	No	Not conditioned	All spares = 20A, single pole, non-mototized breakers
42	Internal Power supply	No	Not conditioned	

DESCRIPTION	GROUP	CONDUIT MINIMUM SPACING					
		A	B	C	D	E	F
MICROPHONE	A	ADJACENT	0'-6"	1'-0"	1'-0"	1'-0"	ADJACENT
LINE / CONTROL	B	0'-6"	ADJACENT	0'-6"	0'-6"	0'-6"	ADJACENT
SPEAKER	C	1'-0"	0'-6"	ADJACENT	0'-6"	0'-6"	ADJACENT
DATA	D	1'-0"	0'-6"	0'-6"	ADJACENT	ADJACENT	ADJACENT
VIDEO	E	1'-0"	0'-6"	0'-6"	ADJACENT	ADJACENT	ADJACENT
FIBER OPTIC	F	ADJACENT	ADJACENT	ADJACENT	ADJACENT	ADJACENT	ADJACENT
120V / 208V POWER	POWER < 60A	2'-0"	2'-0"	2'-0"	2'-0"	2'-0"	ADJACENT
	POWER = 60A, <120A	4'-0"	4'-0"	4'-0"	4'-0"	4'-0"	ADJACENT
	POWER > 120A	5'-4"	5'-4"	5'-4"	5'-4"	5'-4"	ADJACENT

CONDUIT REQUIREMENTS

- INFRASTRUCTURE FOR SOUND, VIDEO, AND AV SYSTEMS MUST CONFORM TO SPECIFIC REQUIREMENTS THAT ARE NECESSARY TO PREVENT COMPROMISING VISIBLE AND AUDIBLE ELECTROMAGNETIC NOISE AND INTERFERENCE.
- ALL AV CABLING MUST BE INSTALLED IN CONDUIT.
- ALL AV CONDUIT MUST BE STEEL EXCEPT LOCATIONS WHERE THE CODE REQUIRES ONLY PVC CONDUITS BE USED.
- CABLING IS DIVIDED INTO GROUPS BASED ON NOMINAL OPERATING VOLTAGE AND SIGNAL TYPE.
- ONLY CABLING OF THE SAME GROUP CAN OCCUPY THE SAME CONDUIT.
- ONLY AV CABLING IS ALLOWED IN AV CONDUITS.
- THE MINIMUM CONDUIT GROUP SPACING MUST BE MAINTAINED.
- WHERE CONDUITS APPROACH DEVICES AND BACKBOXES MAINTAIN CONDUIT SPACING AS MUCH AS PRACTICAL.
- CONDUITS ENTERING THE SIDES OF BOXES MUST BE LOCATED TOWARDS THE REAR OF THE BOX AS MUCH AS POSSIBLE.
- IF CONDUITS CROSS AT RIGHT ANGLES THEN QUARTER THE MINIMUM SPACING REQUIREMENTS LISTED.
- ALL CONDUIT IS 3/4" UNLESS SHOWN OTHERWISE.
- DATA AND VIDEO CABLING IS SUBJECT TO DISTANCE LIMITATIONS. ROUTE ALL GROUP D AND E CONDUIT SO THAT THE MAXIMUM TOTAL CONDUIT LENGTH DOES NOT EXCEED 200 FEET.
- INSTALL PULL BOXES IN CONVENIENT LOCATIONS SO THAT THE DISTANCE BETWEEN PULL POINTS DOES NOT EXCEED 100 FEET.

DEVICE LEGEND

ANTENNA JACK 4" SQUARE 3-1/2" DEEP TWO GANG TRIM RING ALS = FLUSH MOUNT ON REAR WALL WIR-A & WIR-B SURFACE MOUNT @ 144" AFF	INTERCOM JACK FSR SMWB-2G TWO GANG SURFACE MOUNT WALL BOX SURFACE MOUNT AT RECEPTACLE HEIGHT	MIC JUNCTION BOX 12X12X12 SCREW COVER BOX SURFACE MOUNT INSTALL ABOVE AV RACKS 1 & 2	SPEAKER CLUSTER JUNCTION BOXES (LEFT & RIGHT) 4X4X4 SCREW COVER BOX MOUNT TO CEILING OR ROOF TRUSS DIRECTLY ABOVE SPEAKER CLUSTERS
ANTENNA JUNCTION BOX 6X6X4 SCREW COVER BOX INSTALL ABOVE AV RACKS 1 & 2	INTERCOM SPEAKER STATION BACKBOX FURNISHED BY AV CONTRACTOR FLUSH MOUNT AT SWITCH HEIGHT	NETWORK JUNCTION BOX 18X18X12 SCREW COVER BOX SURFACE MOUNT INSTALL ABOVE AV RACKS 1 & 2	SPEAKER JUNCTION BOX 10X10X10 SCREW COVER BOX SURFACE MOUNT INSTALL ABOVE AV RACKS 1 & 2
BACKSTAGE CONTROL PANEL RACK BACKBOX FURNISHED BY AV CONTRACTOR SURFACE MOUNT	INTERCOM JUNCTION BOX 18X18X12 SCREW COVER BOX SURFACE MOUNT INSTALL ABOVE AV RACKS 1 & 2	PROJECTOR OUTLET 4" SQUARE 3-1/2" DEEP BOX TWO GANG SURFACE MOUNT WALL BOX SURFACE MOUNT AT RECEPTACLE HEIGHT	WIRELESS ACCESS POINT 4" SQUARE 3-1/2" DEEP BOX TWO GANG TRIM RING FLUSH MOUNT ON REAR WALL
COMBINATION PANEL TYPE 1 BACKBOX FURNISHED BY AV CONTRACTOR STAGE APRON FLUSH MOUNT AT 18" AFF STAGE LEFT AND RIGHT SURFACE MOUNT AT 18" AFF	MIC JACK FSR SMWB-1G ONE GANG SURFACE MOUNT WALL BOX PIPE MOUNT TO LINE SETS	PROJECTION SCREEN EXISTING	AV RACK 1 AV RACK 2 PROVIDED BY AV CONTRACTOR
INTERCOM JACK 4" SQUARE 3-1/2" DEEP BOX TWO GANG TRIM RING FLUSH MOUNT AT RECEPTACLE HEIGHT	MIC JACK 4" SQUARE 3-1/2" DEEP BOX TWO GANG TRIM RING FLUSH MOUNT ON REAR WALL		

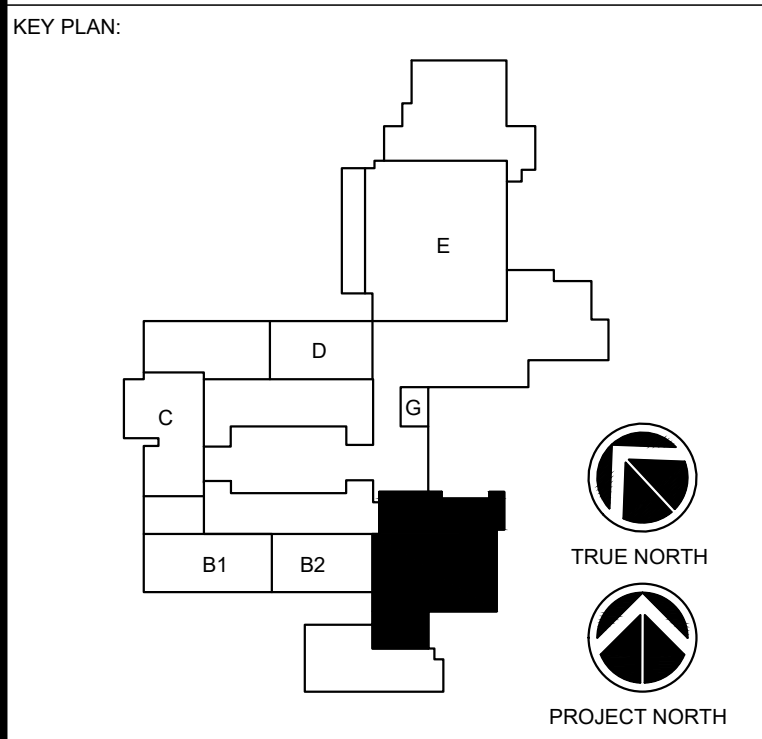
AUDIO VIDEO SYSTEM DEVICE LEGEND NOTES

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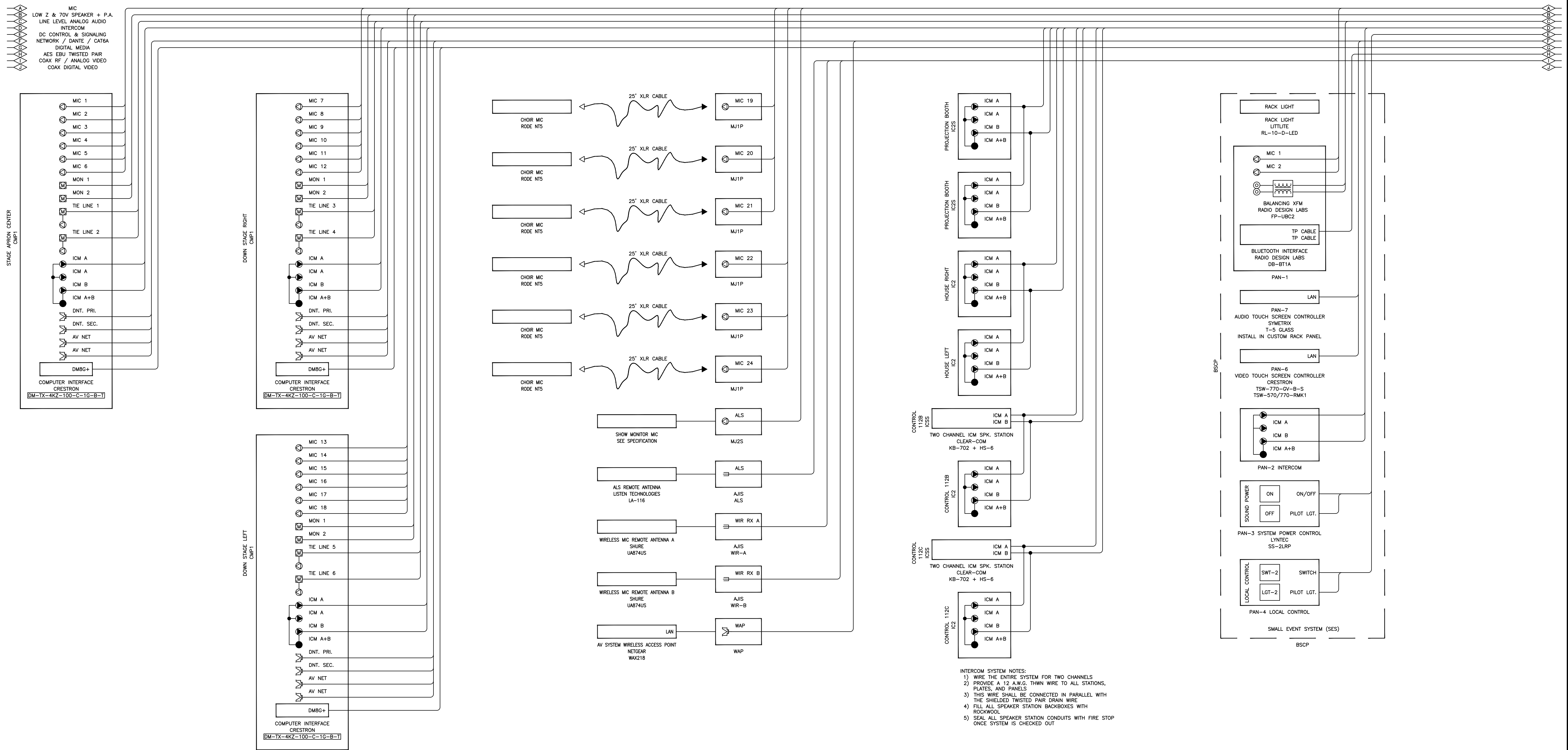
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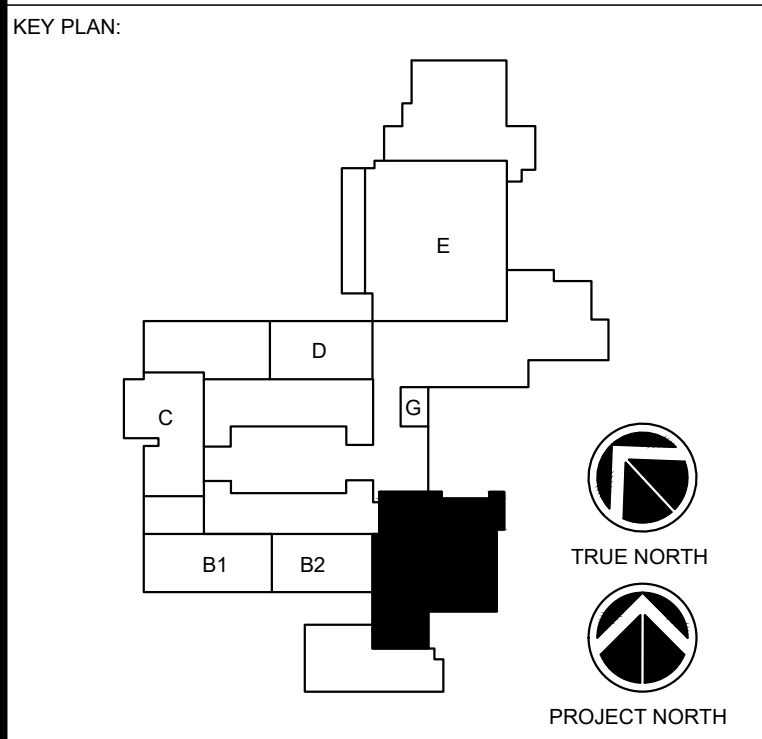


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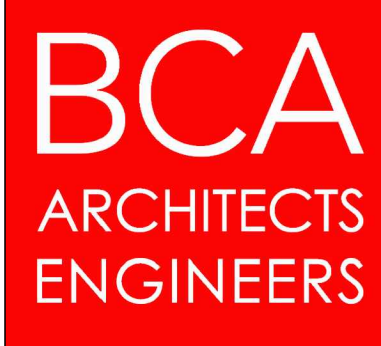
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DRAWN BY RC		PROJECT NUMBER 2023-105
CHECKED BY SCS		DATE 12/16/2024
AUDITORIUM AV SYSTEM CONDUIT RISERS, POWER, LEGEND		
BUILDING NUMBER HS	SHEET NUMBER TS102 BID	



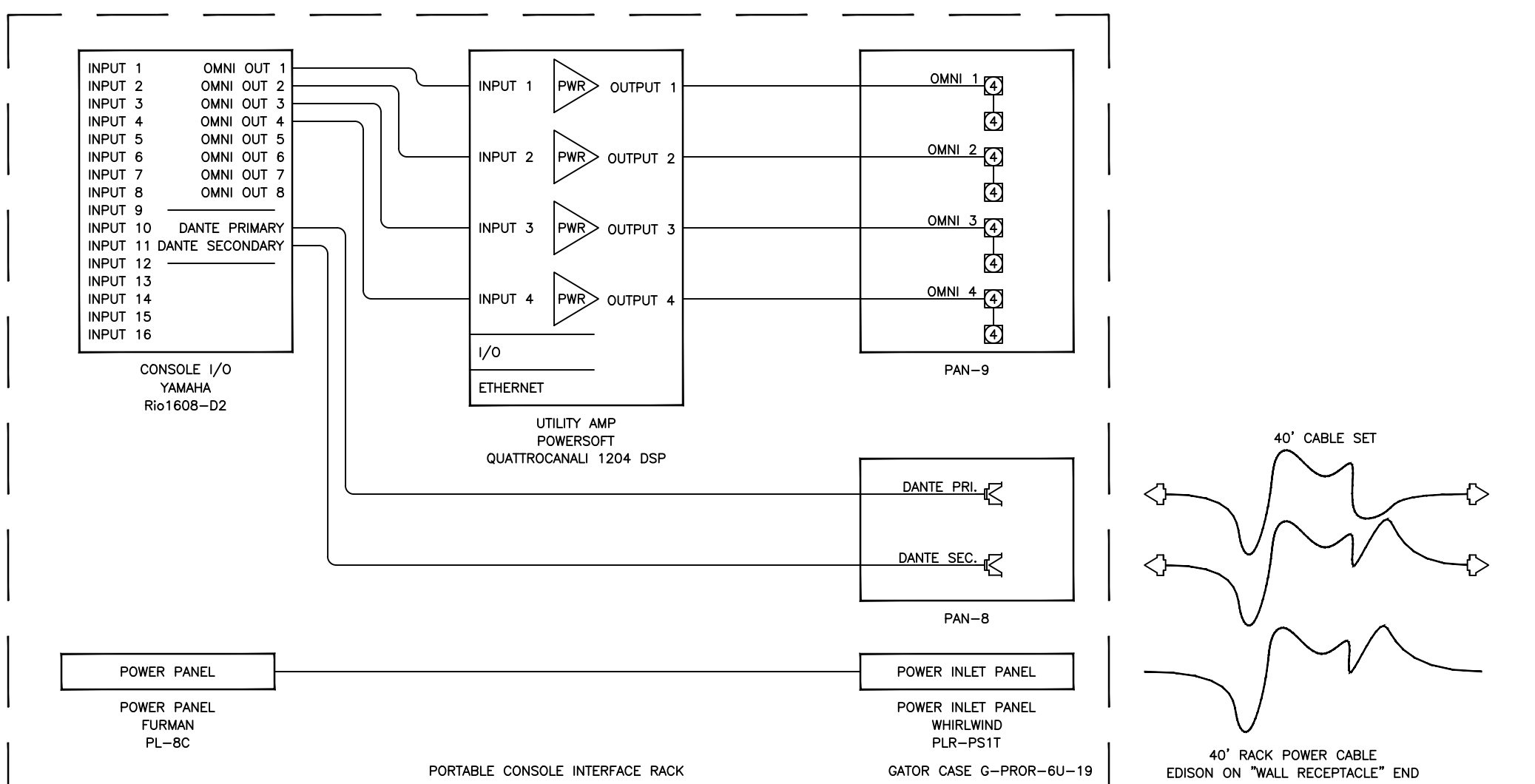
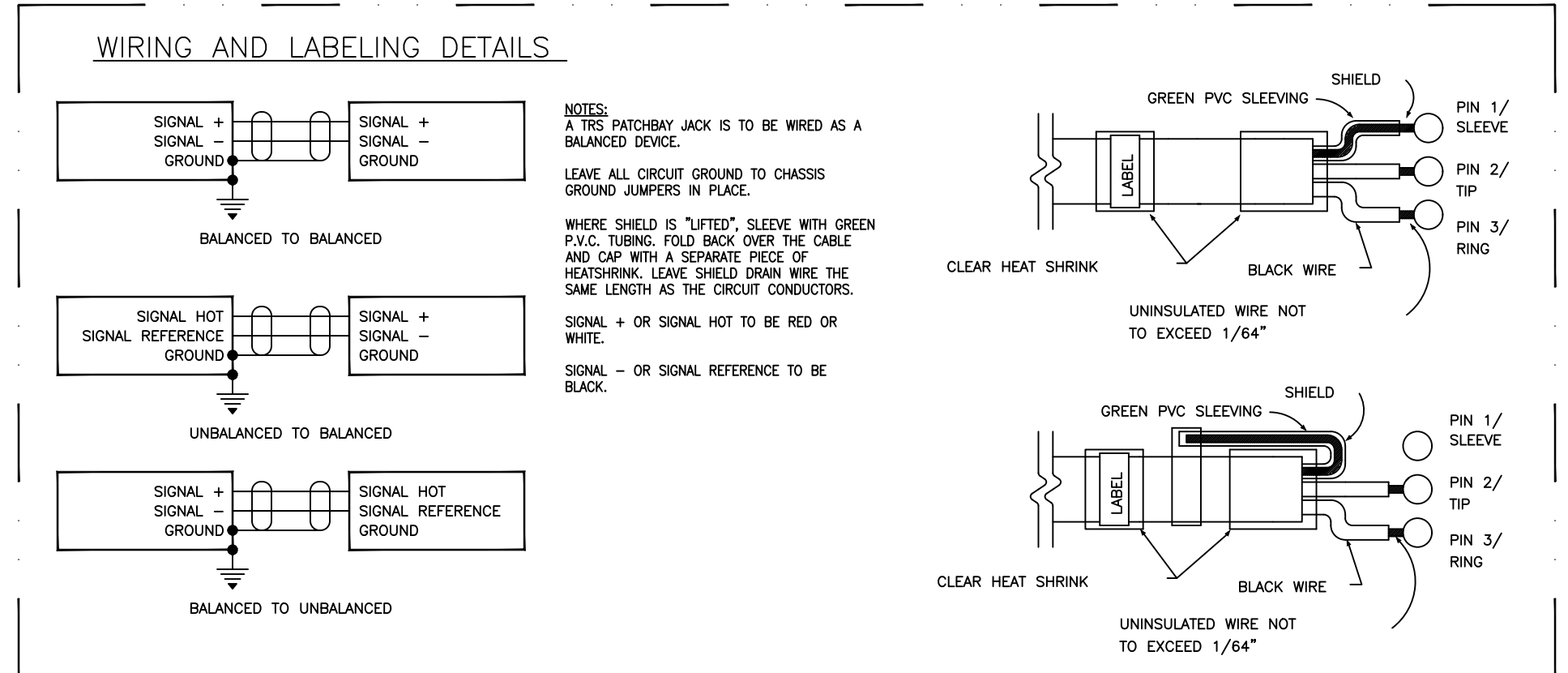
- INTERCOM SYSTEM NOTES:**
- 1) WIRE THE ENTIRE SYSTEM FOR TWO CHANNELS
 - 2) PROVIDE A 12 A.W.G. THIN WIRE TO ALL STATIONS, PLATES, AND PANELS
 - 3) THIS WIRE SHALL BE CONNECTED IN PARALLEL WITH THE SHIELDED TWISTED PAIR DRAIN WIRE
 - 4) FILL ALL SPEAKER STATION BACKBOXES WITH ROCKWOOL
 - 5) SEAL ALL SPEAKER STATION CONDUITS WITH FIRE STOP ONCE SYSTEM IS CHECKED OUT



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- SYMBOL LEGEND**
- NEUTRIK NL4MP
 - NEUTRIK FOUR POLE CABLE MOUNT FEMALE
 - NEUTRIK NL5MP-BAG
 - NEUTRIK NL7FX-BAG
 - NEUTRIK CHASSIS MOUNT 3 PIN XLR FEMALE
 - NEUTRIK CHASSIS MOUNT 3 PIN XLR MALE
 - NEUTRIK CABLE MOUNT 3 PIN XLR FEMALE
 - NEUTRIK CABLE MOUNT 3 PIN XLR MALE
 - NEUTRIK CHASSIS MOUNT 4 PIN XLR FEMALE
 - NEUTRIK CHASSIS MOUNT 4 PIN XLR MALE
 - NEUTRIK CABLE MOUNT 4 PIN XLR FEMALE
 - NEUTRIK CABLE MOUNT 4 PIN XLR MALE
 - NEUTRIK CHASSIS MOUNT 6 PIN XLR FEMALE SWITCHCRAFT COMPATIBLE VERSION NC6MSD-L-1
 - NEUTRIK ISOLATED RCA TYPE CONNECTOR
 - NEUTRIK PANEL MOUNT ETHERCON CAT6A
 - NEUTRIK CABLE MOUNT ETHERCON CAT6A
 - NEUTRIK PANEL MOUNT OPTICALCON #N02-4FDW-A
 - NEUTRIK ISOLATED FEED THROUGH BNC CONNECTOR
 - ISOLATED FEED THROUGH F TYPE CONNECTOR
 - TERMINAL BLOCK
 - WHIRLWIND W1 CHASSIS MOUNT FEMALE
 - WHIRLWIND W1 CABLE MOUNT MALE



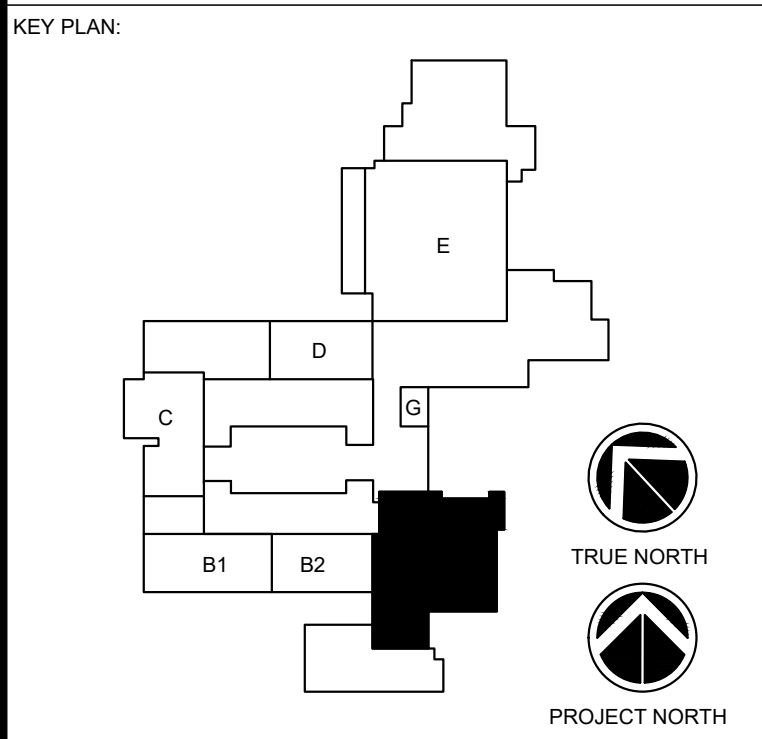
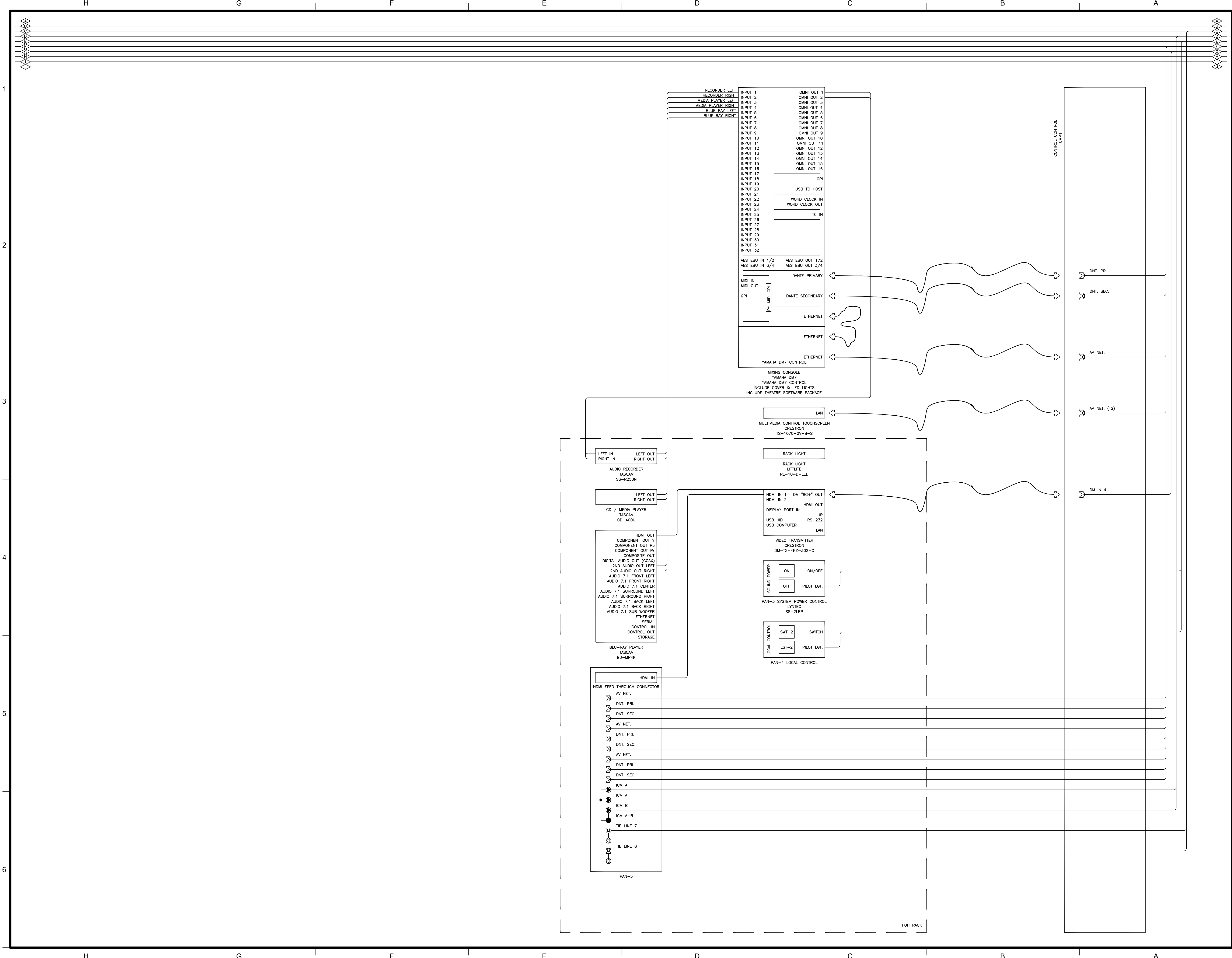
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 PROJECT NUMBER: 2023-105

CHECKED BY: SCS
 DATE: 12/16/2024

AUDITORIUM AV SYSTEM ONE-LINE PART A

BUILDING NUMBER: HS
 SHEET NUMBER: TS103
 BID



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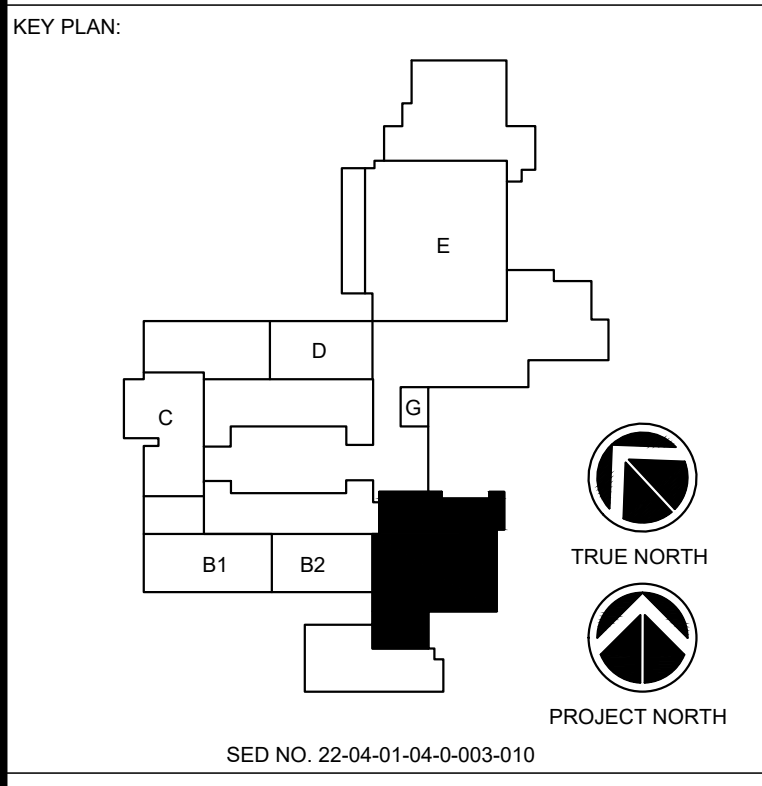
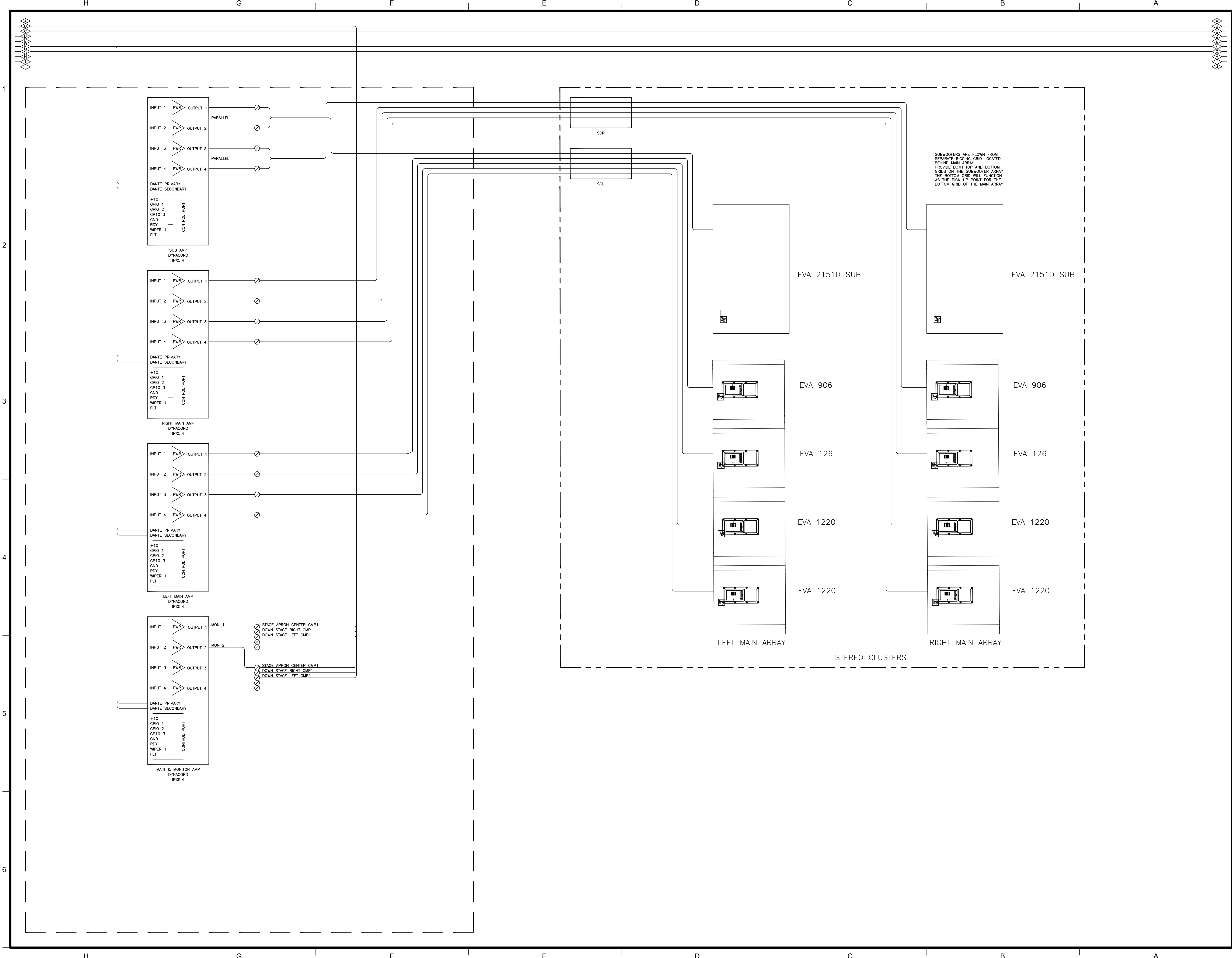
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REV	DATE	DESCRIPTION

DRAWN BY RC	PROJECT NUMBER 2023-105
CHECKED BY SCS	DATE 12/16/2024

**AUDITORIUM AV SYSTEM
 ONE-LINE PART B**

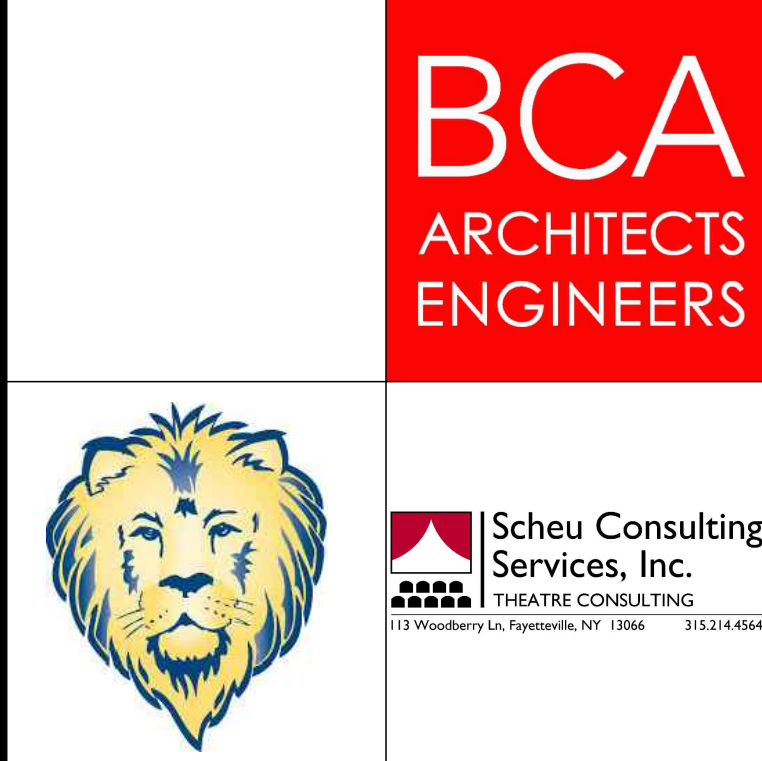
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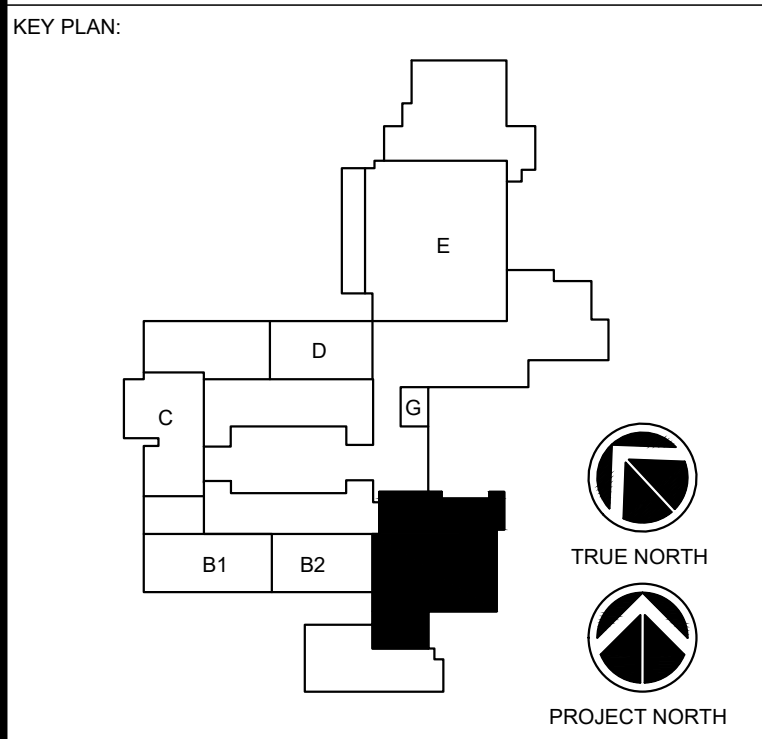
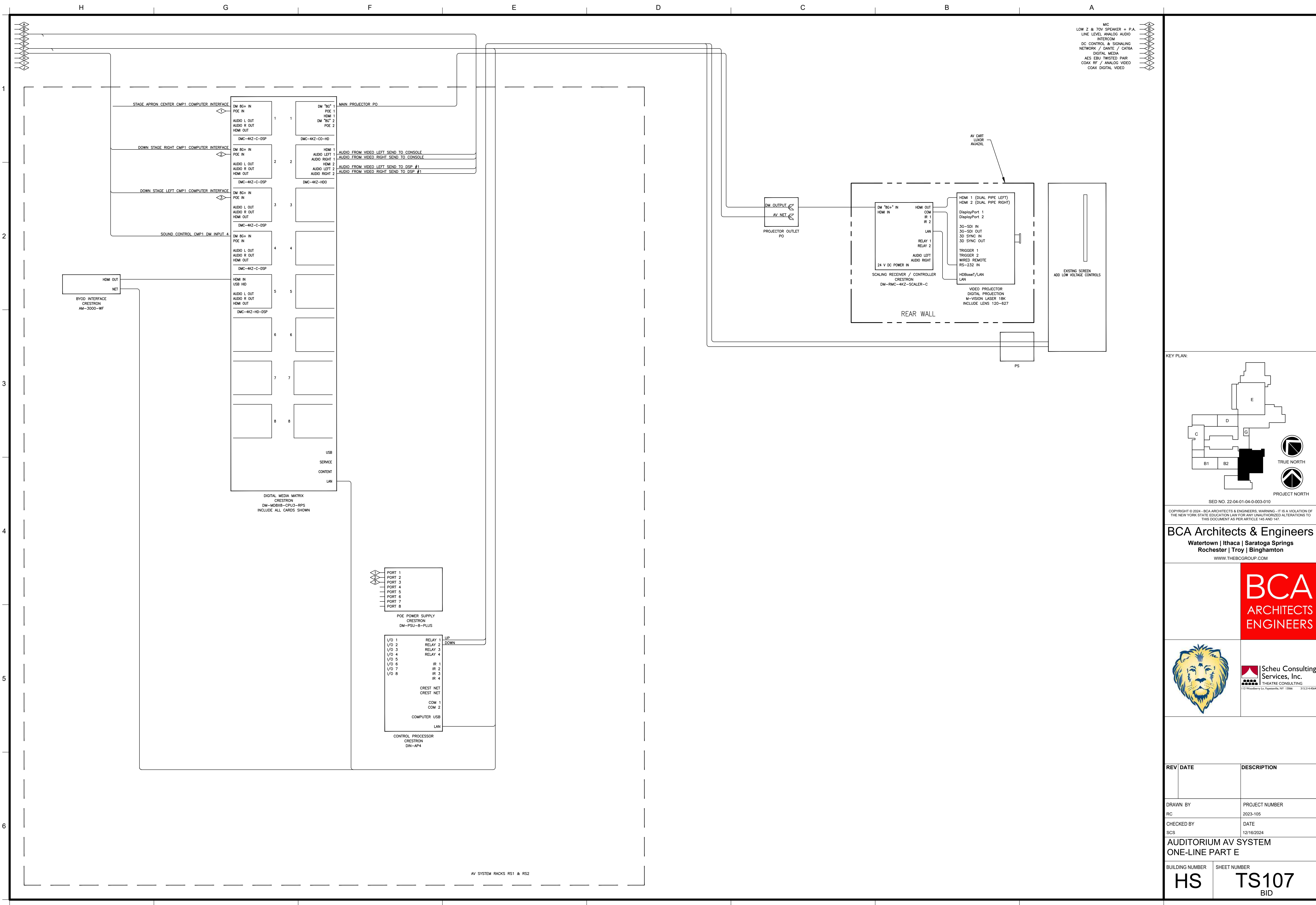
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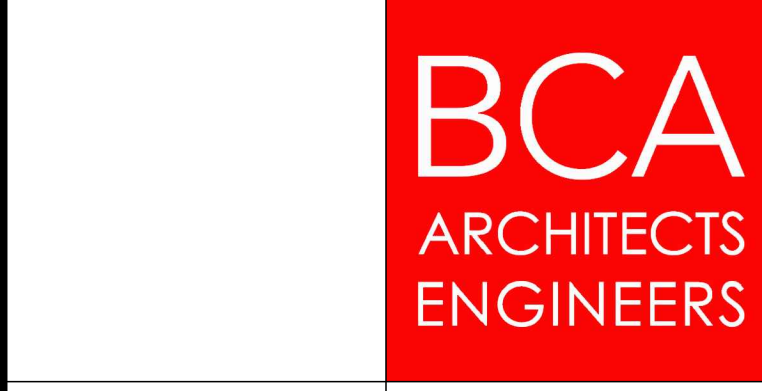
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AUDITORIUM AV SYSTEM ONE-LINE PART D		
BUILDING NUMBER	HS	SHEET NUMBER TS106 BID



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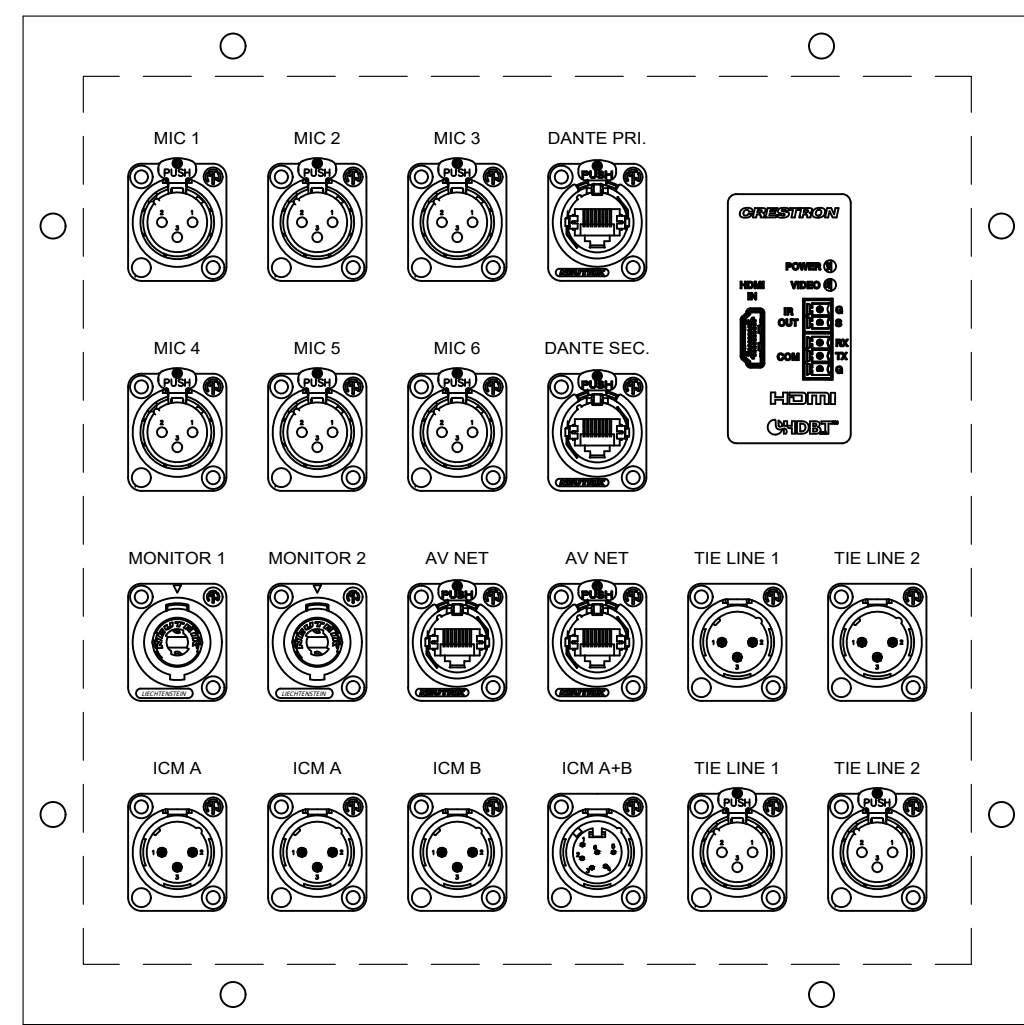
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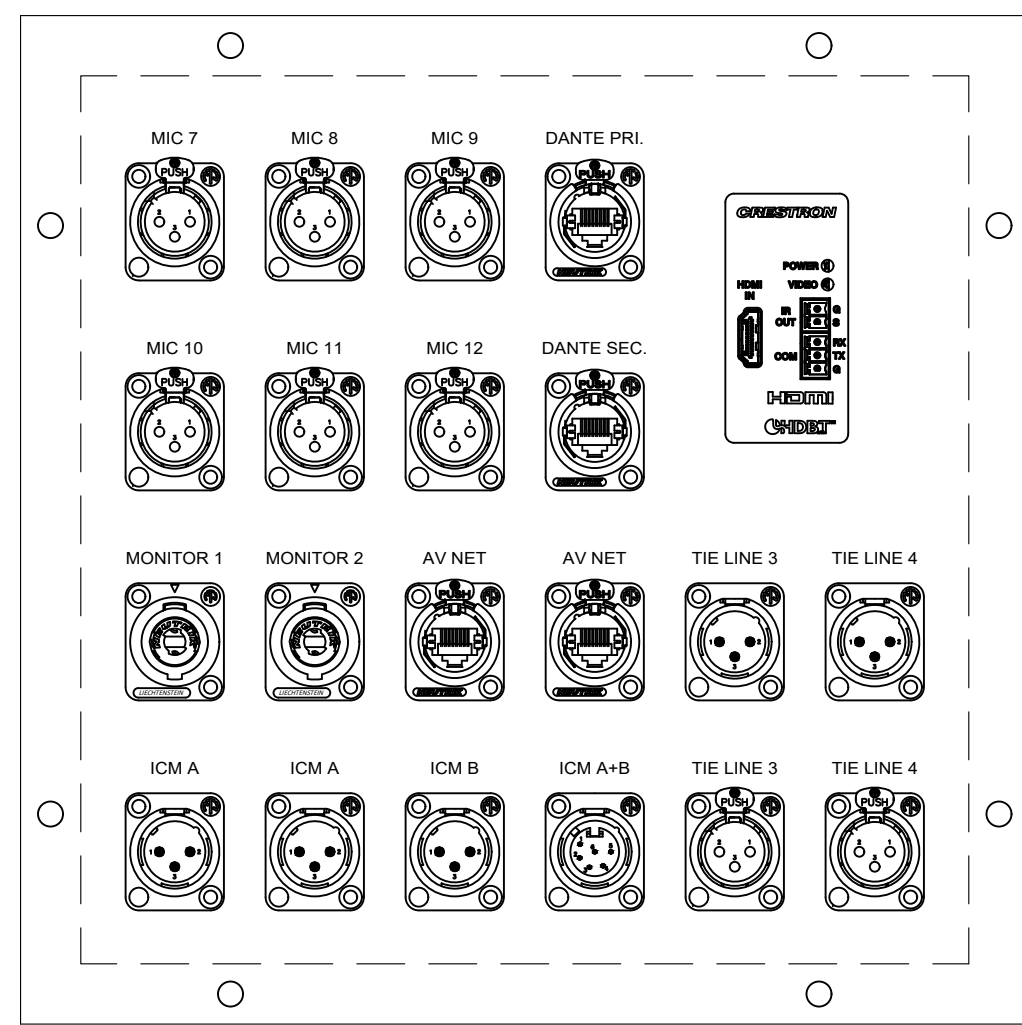
**AUDITORIUM AV SYSTEM
ONE-LINE PART E**

BUILDING NUMBER HS	SHEET NUMBER TS107 BID
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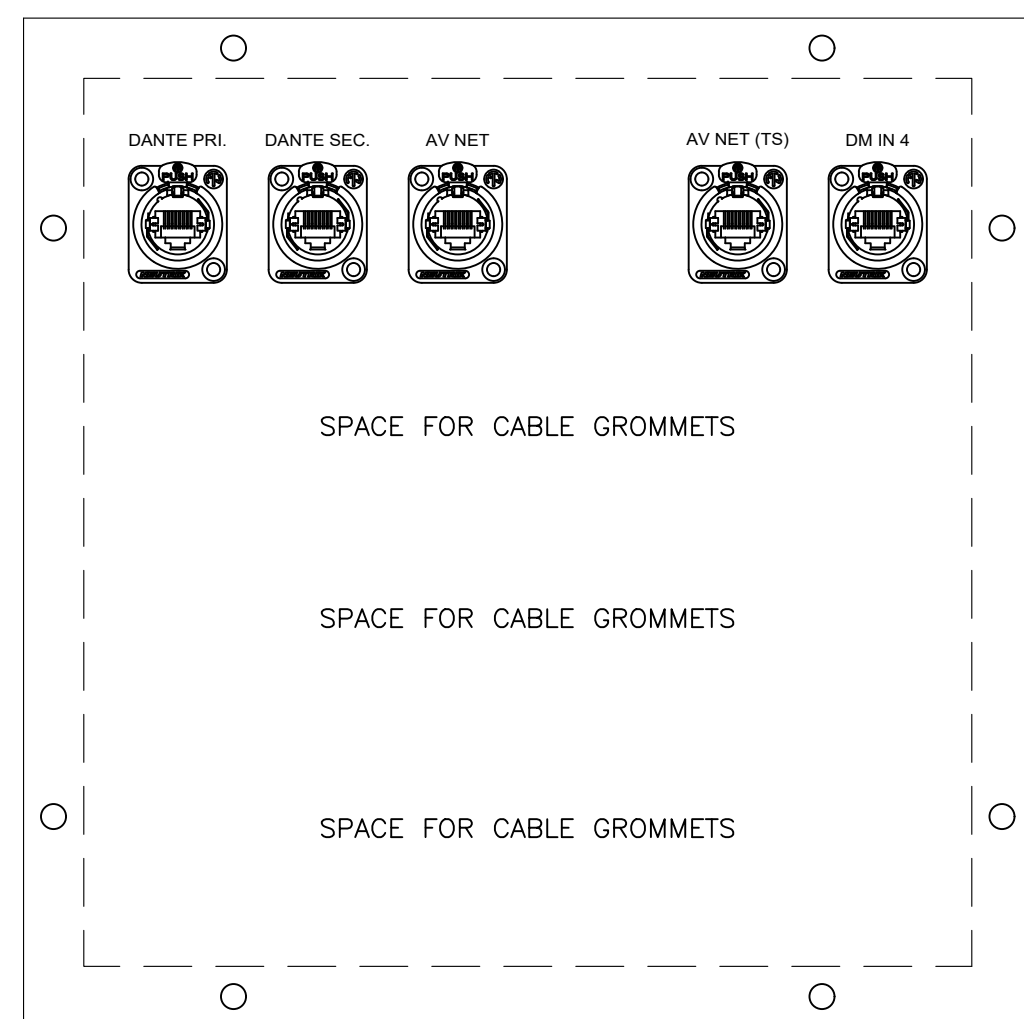
AV SYSTEM RACKS RS1 & RS2



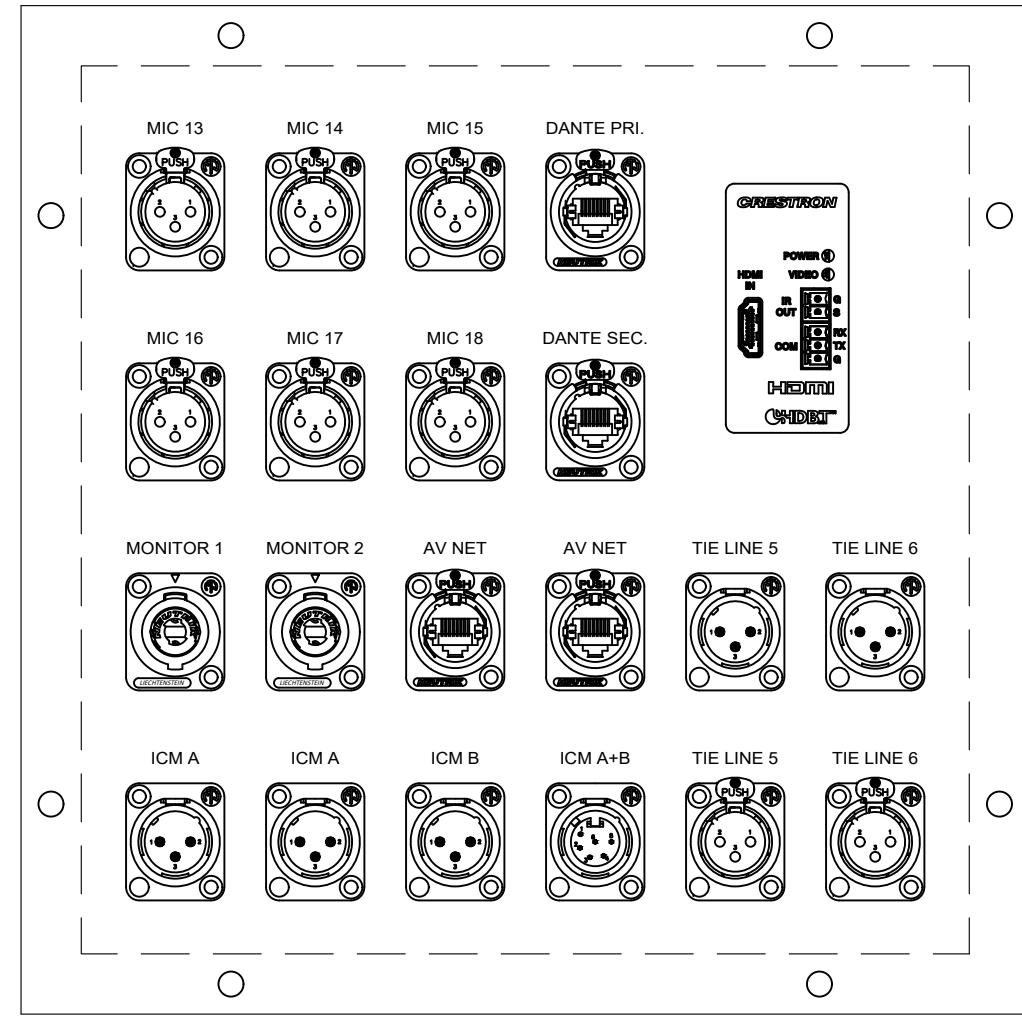
STAGE APRON CENTER COMBINATION PANEL (CMP1)



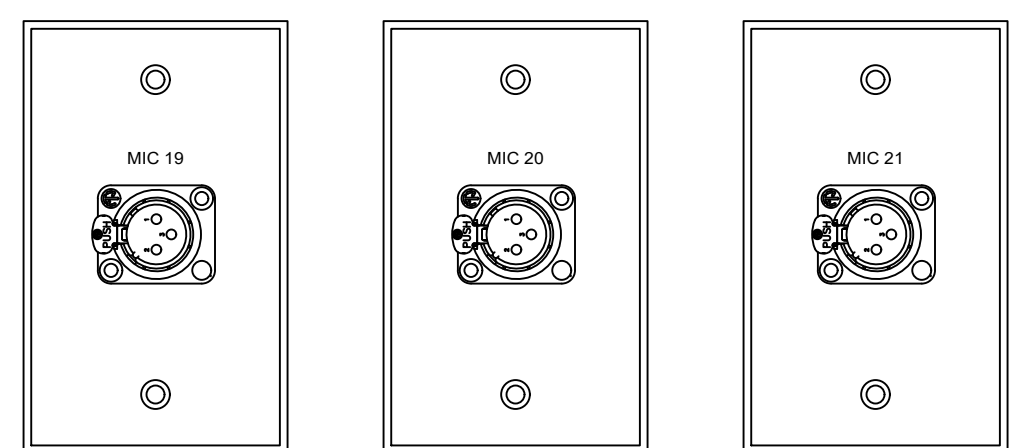
DOWN STAGE RIGHT COMBINATION PANEL (CMP1)



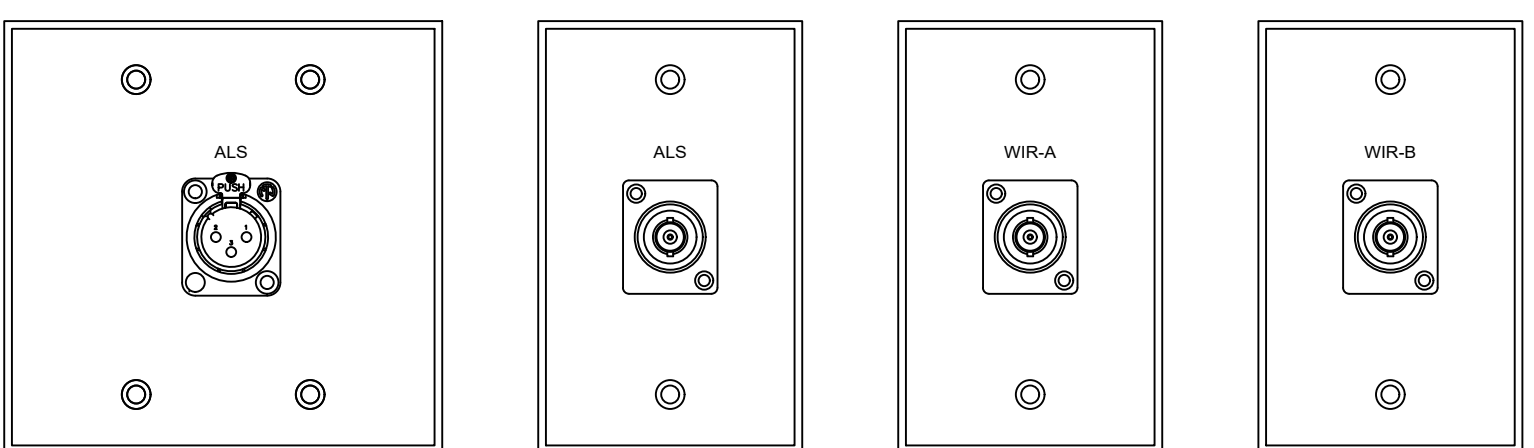
SOUND BOOTH COMBINATION PANEL (CMP1)



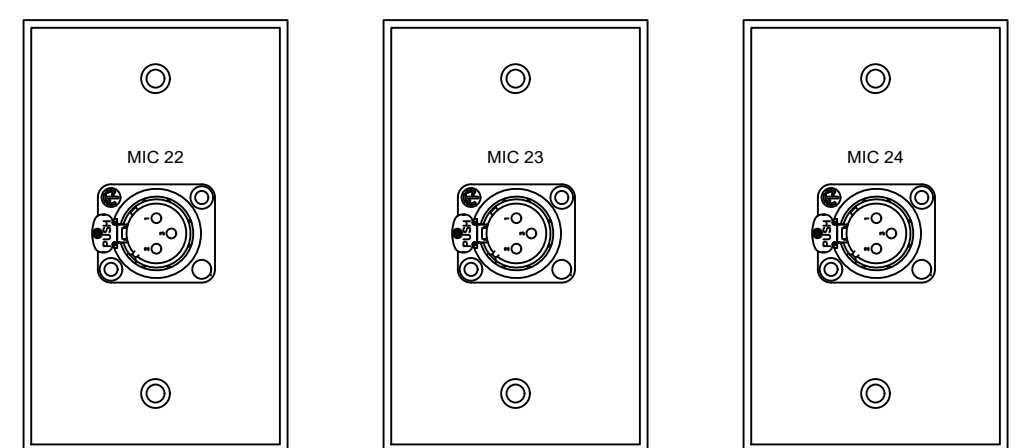
DOWN STAGE LEFT COMBINATION PANEL (CMP1)



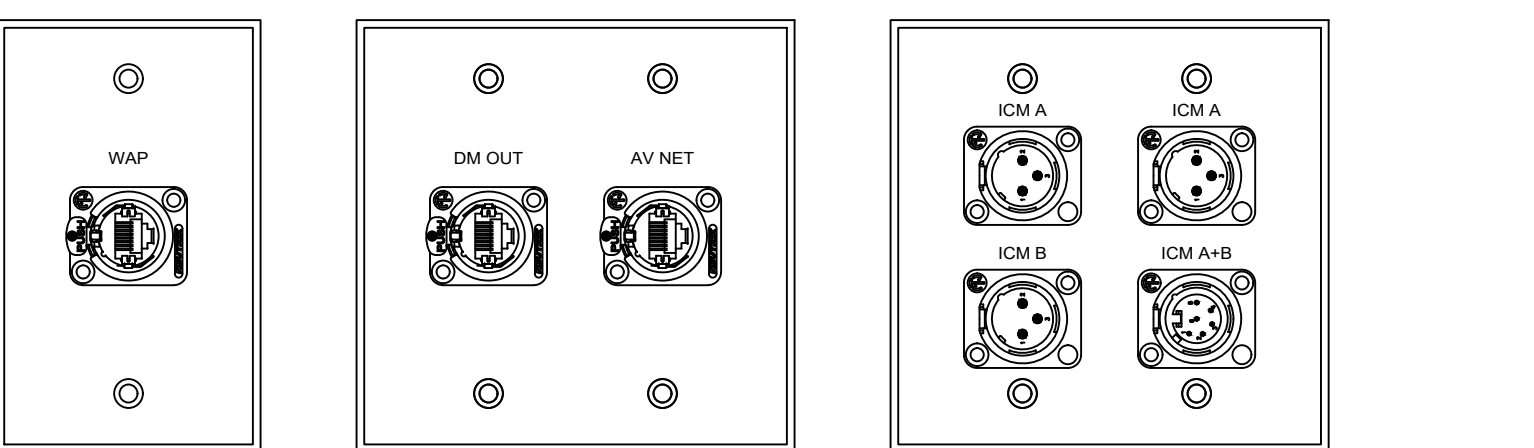
CHOIR MIC (MJ1P) CHOIR MIC (MJ1P) CHOIR MIC (MJ1P)



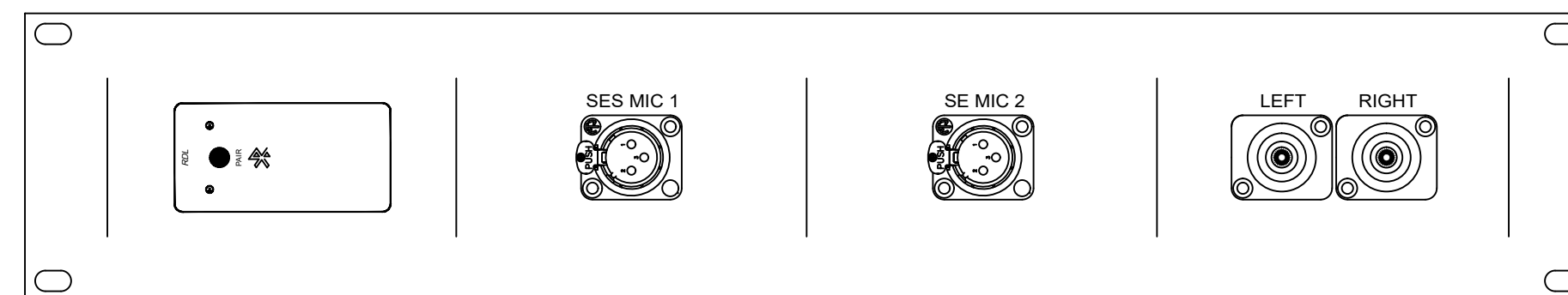
REAR WALL (MJ2S) REAR WALL (AJ1S) STAGE RIGHT (AJ1S) STAGE LEFT (AJ1S)



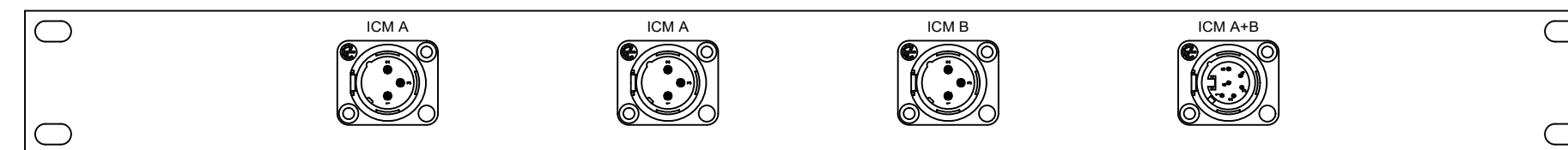
CHOIR MIC (MJ1P) CHOIR MIC (MJ1P) CHOIR MIC (MJ1P)



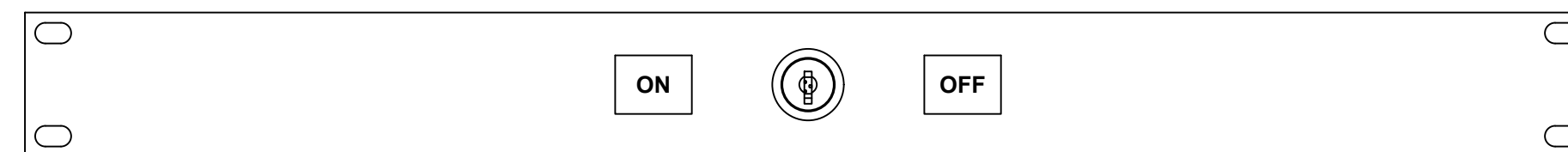
REAR WALL (WAP) PROJECTOR OUTLET (PO) TYPICAL INTERCOM PLATE (IC2&IC2S)



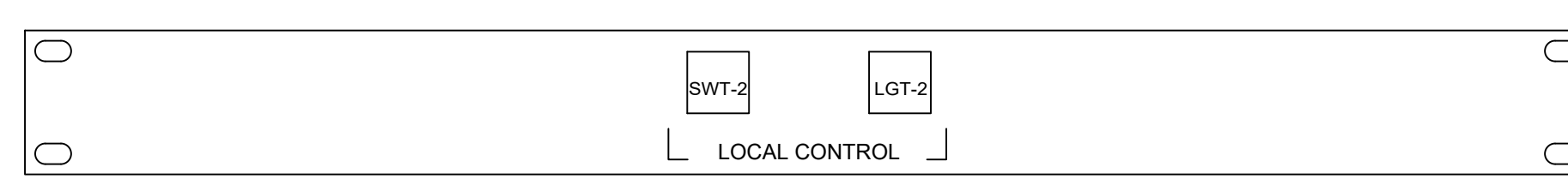
PAN-1



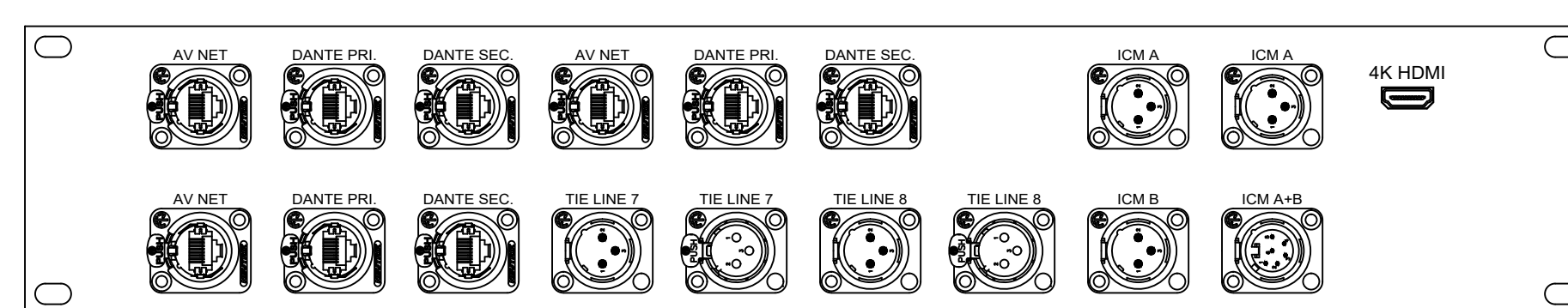
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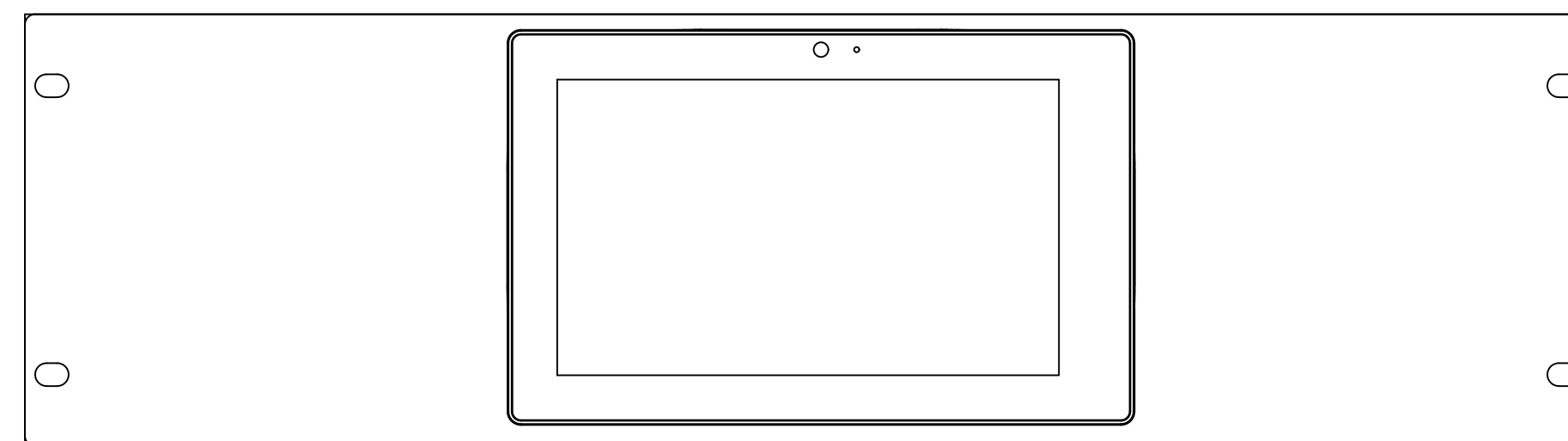
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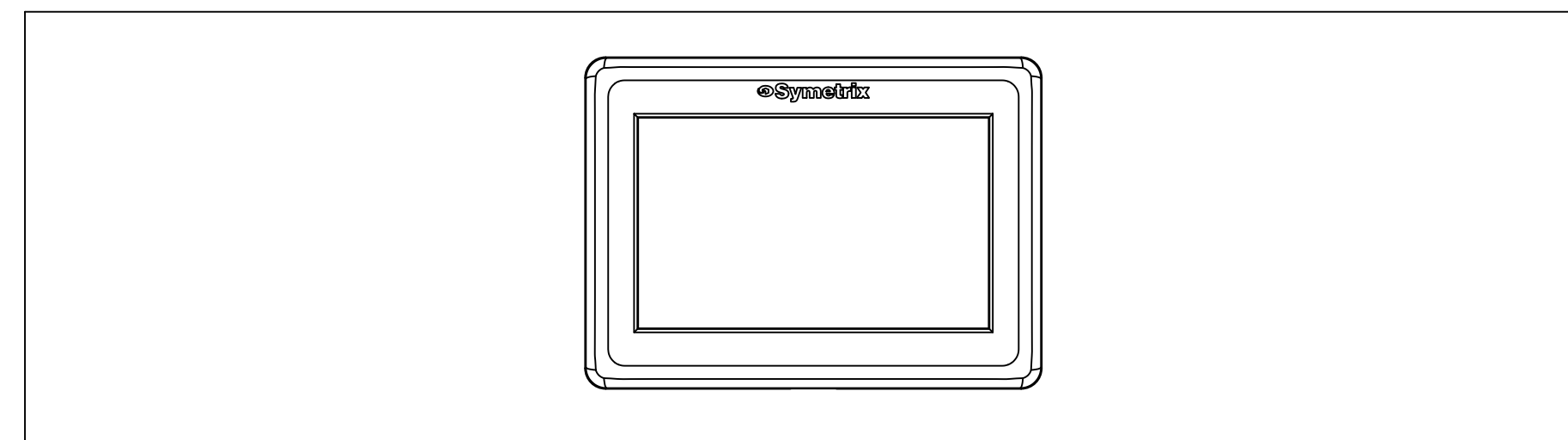
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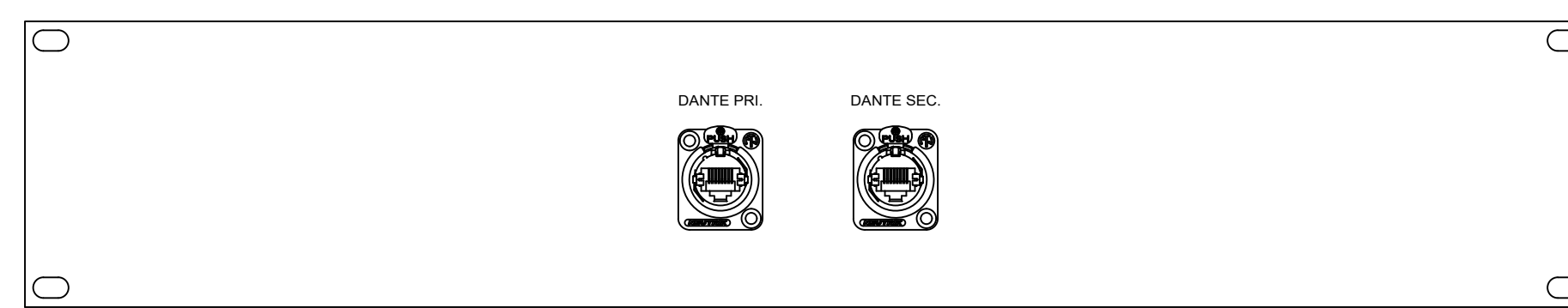
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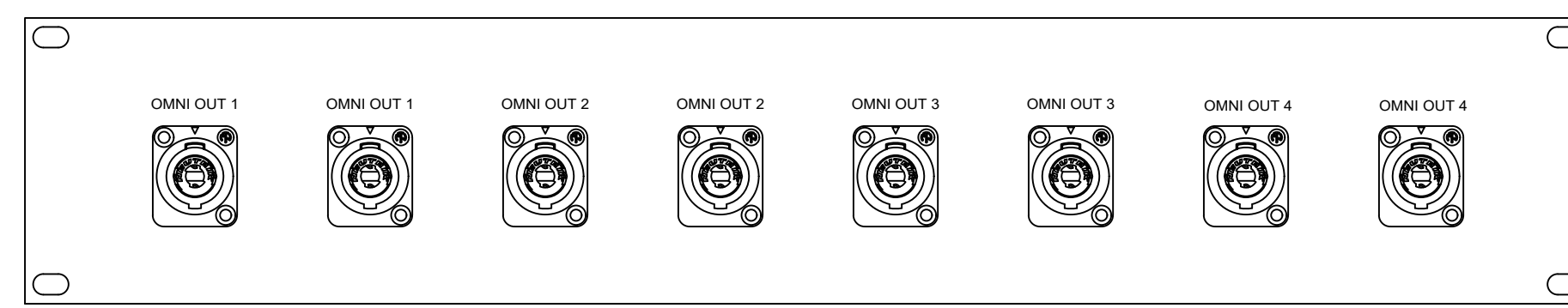
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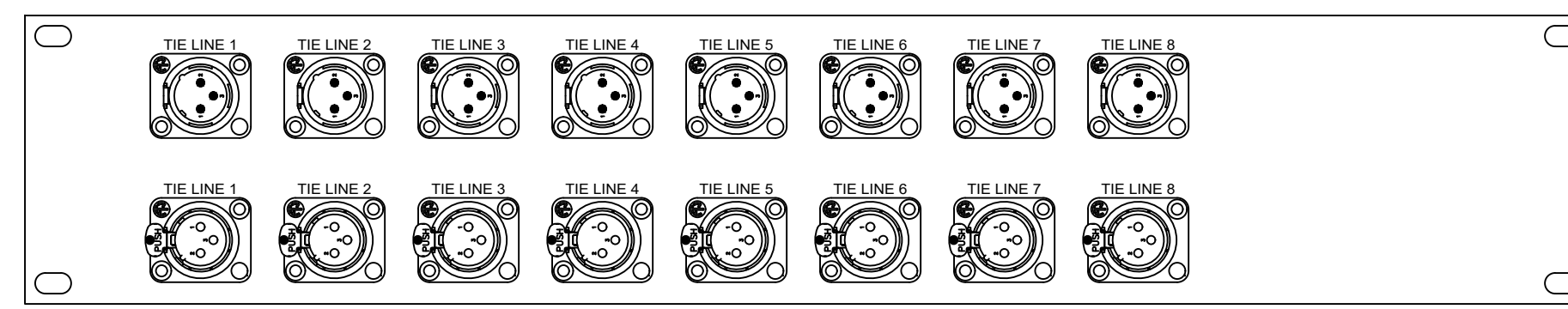
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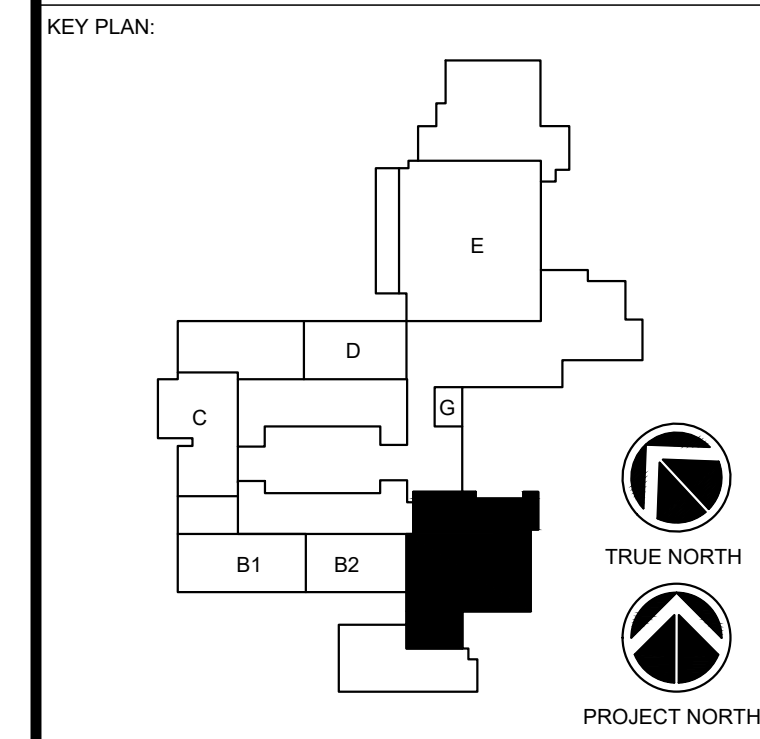
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PAN-9

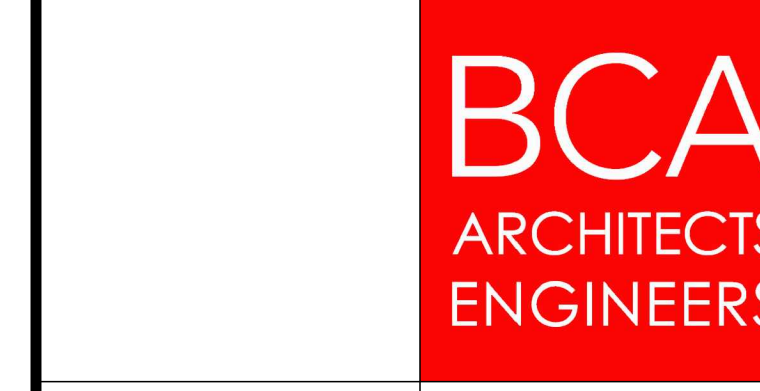


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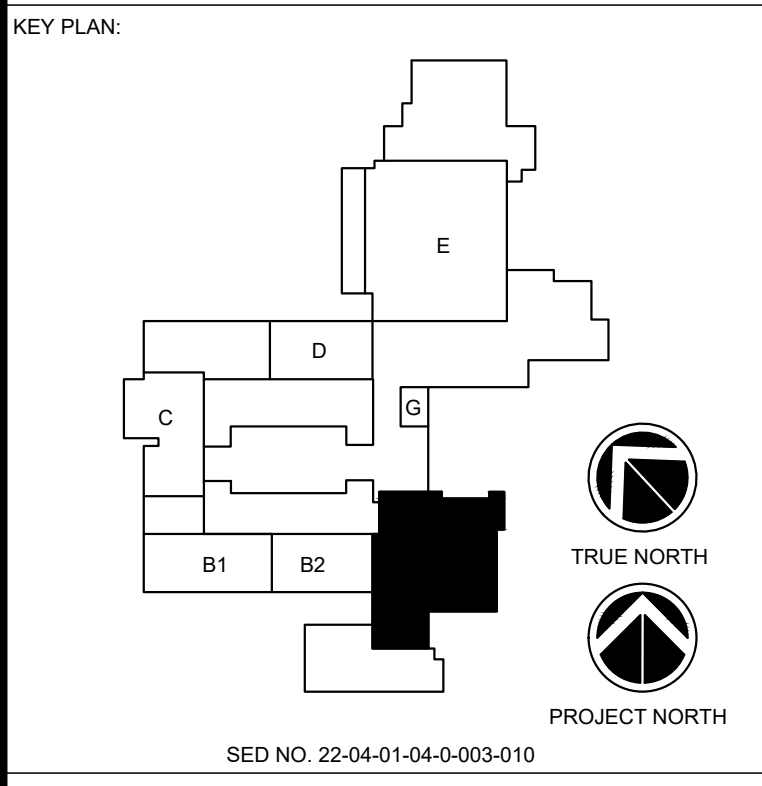
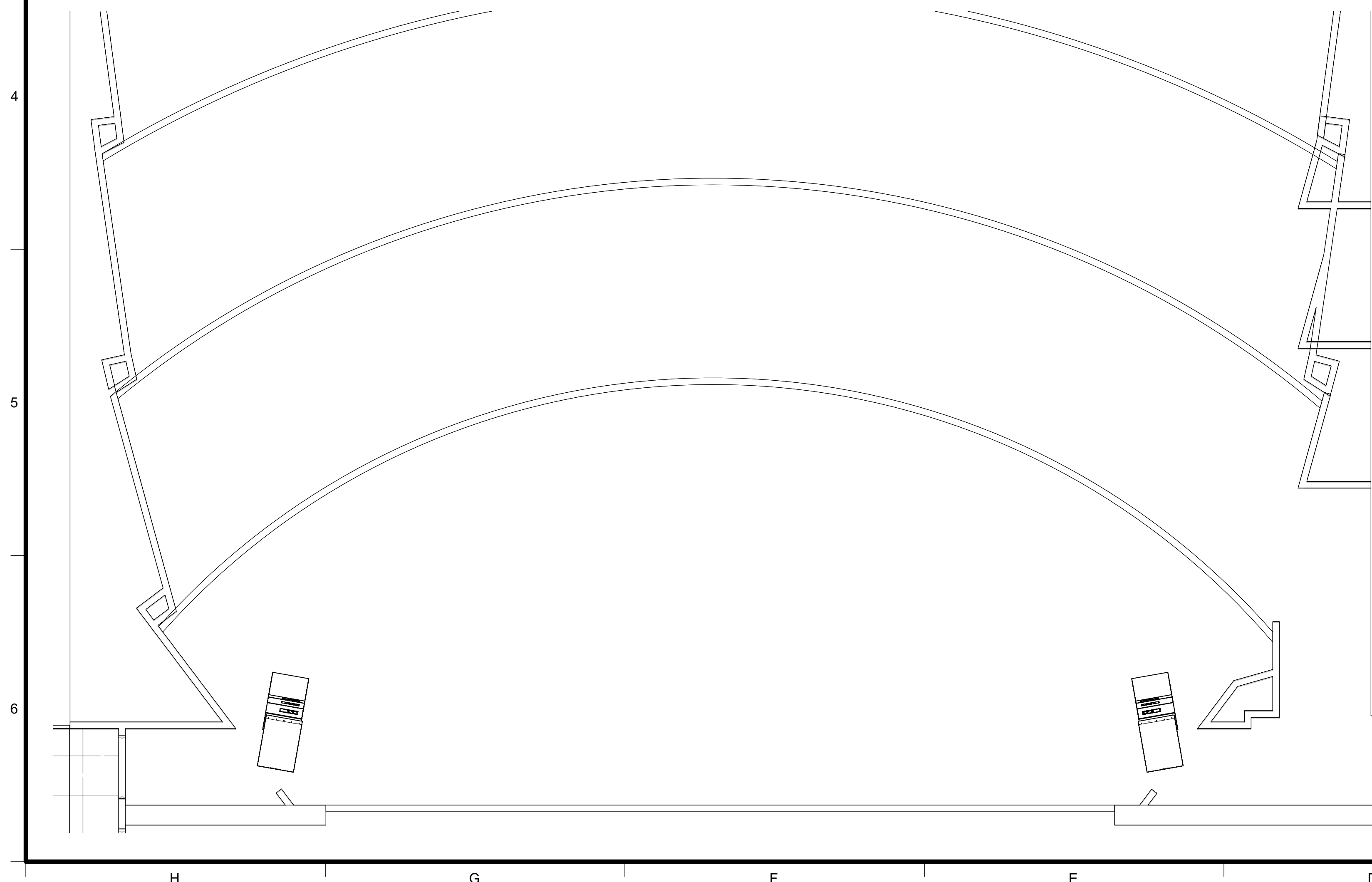
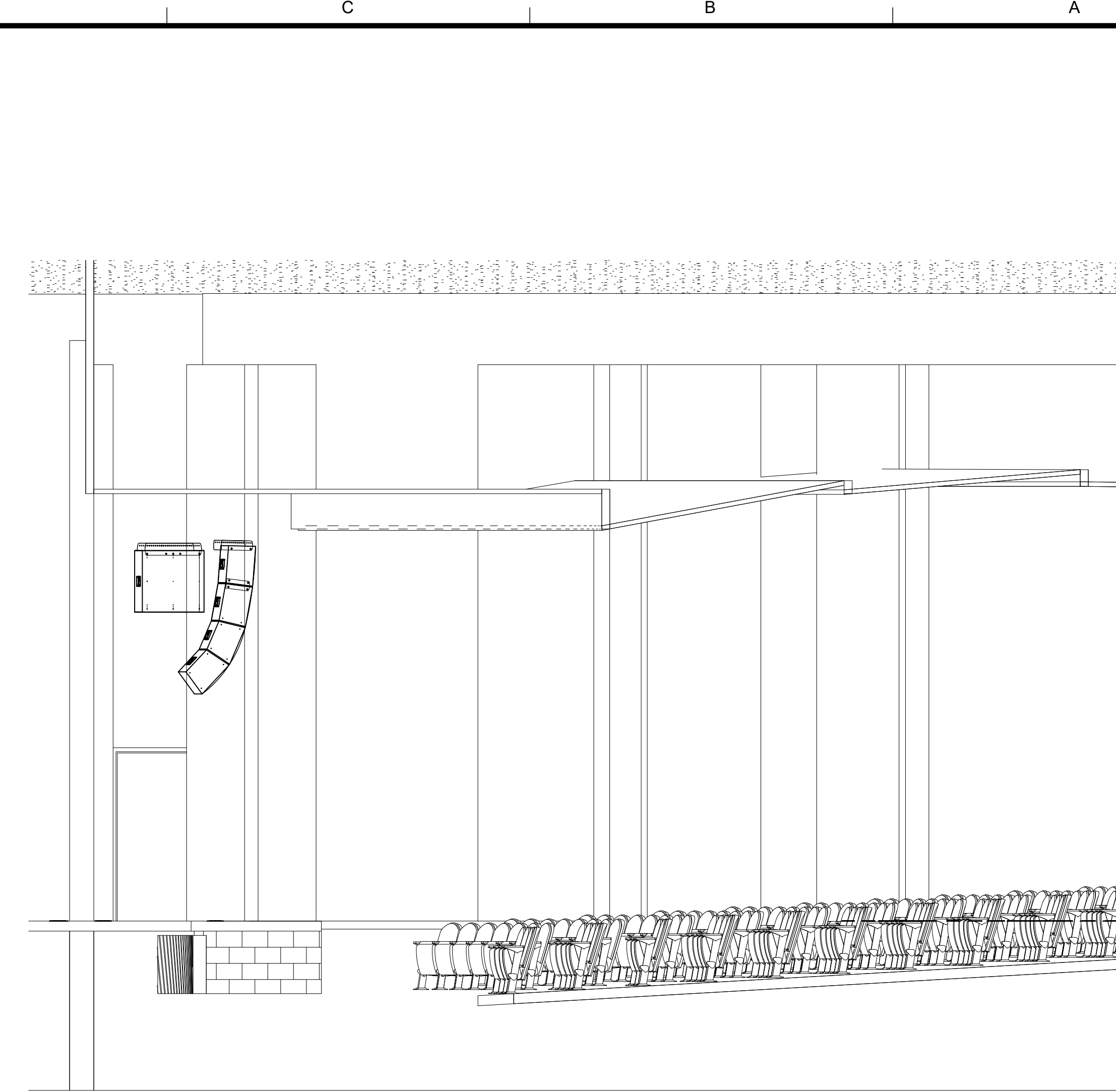
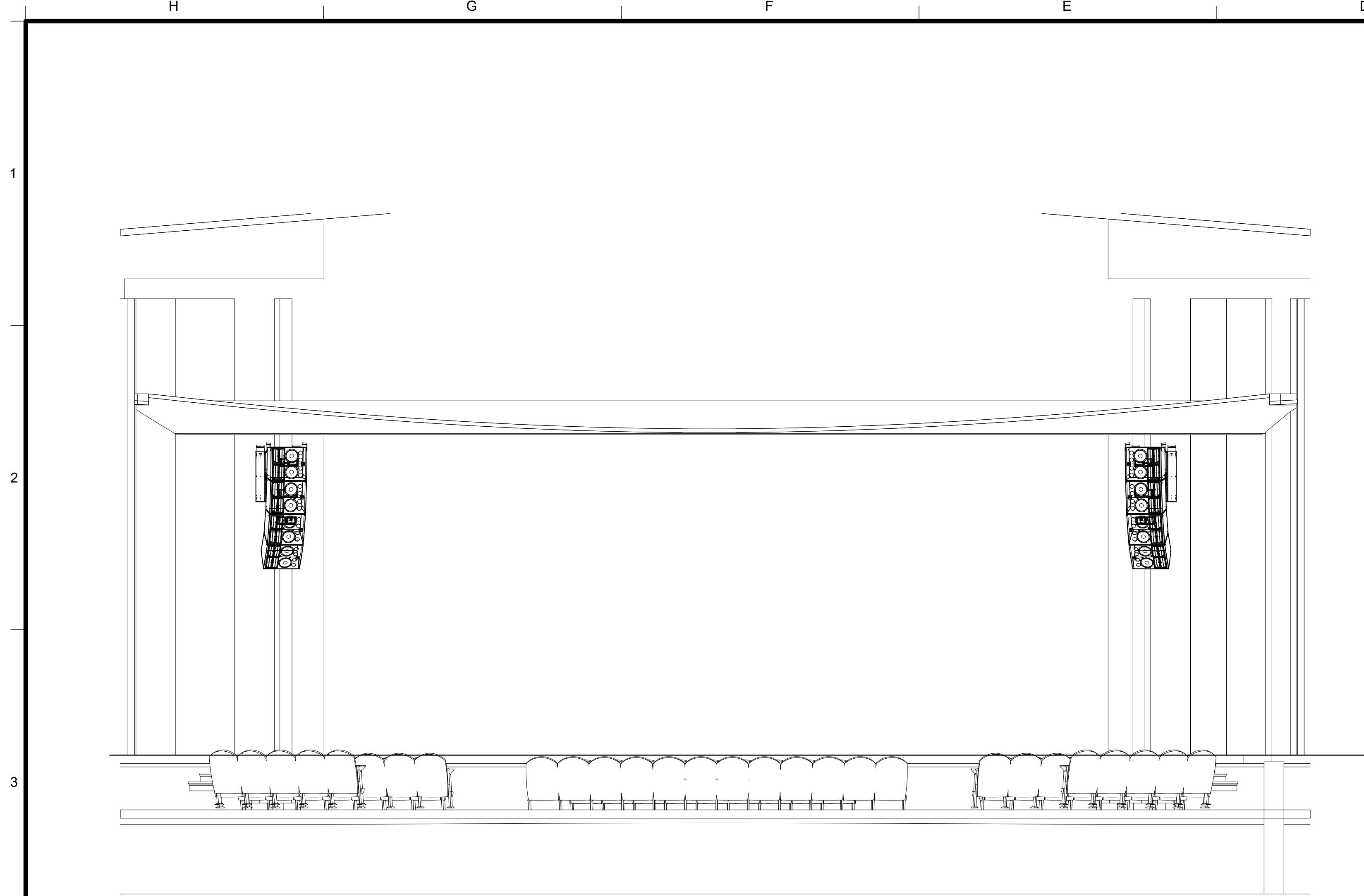


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REV	DATE	DESCRIPTION
DRAWN BY RC		PROJECT NUMBER 2023-105
CHECKED BY SCS		DATE 12/16/2024
AUDITORIUM AV SYSTEM PLATE AND PANEL DETAILS		
BUILDING NUMBER HS	SHEET NUMBER TS108 BID	



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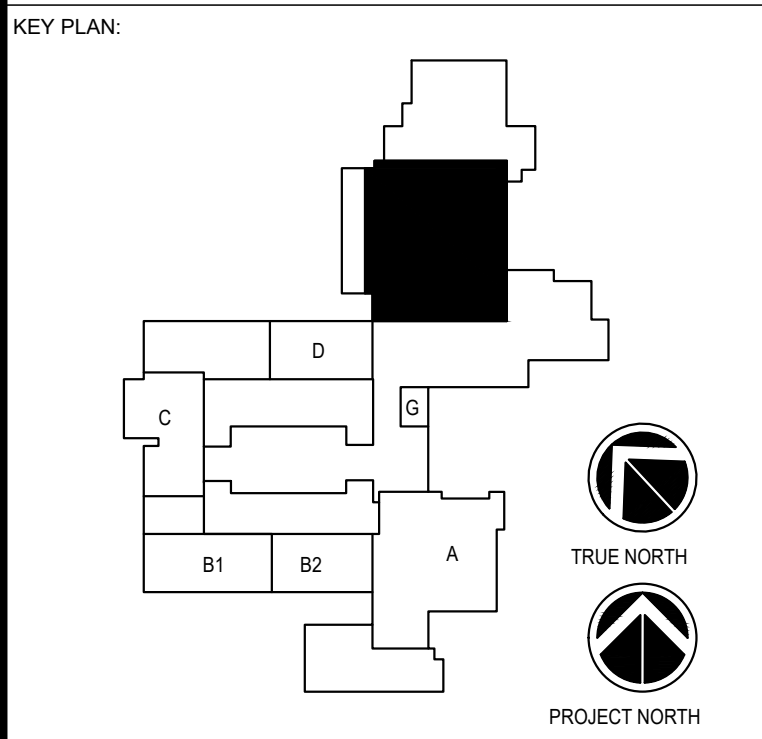
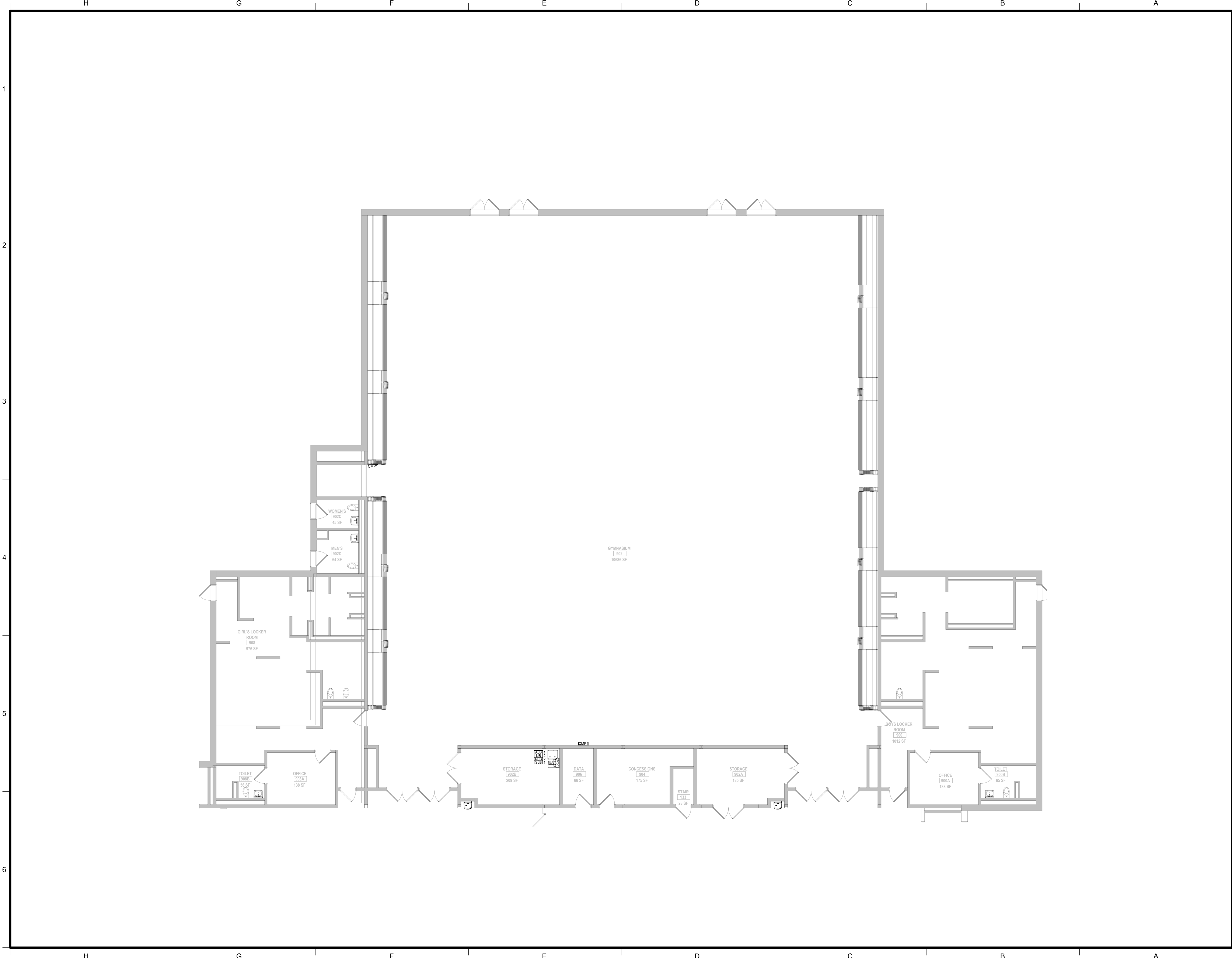
X	Y	Z	Pan	Tilt	Rigging Mode	PickUp Points	Safety Factor
-22.19	0.94	18.15	-10	-1.79	One PickUp point	13 (328.8lbs)	8:1

TOP cluster Z	Cluster Height	Bottom cluster Z	Bottom Degree
18.24ft	6.36ft	11.88ft	-43.79°

Name	Model	Preset	Drive Group	Pinhole	Angle Rel.	Angle Prog.	Gain(dB)	Delay(ms)
Frame	EVA-SG2 Grid			FIX	-1.79°	-1.79°		
Box 1	906 Both HF 0dB	100	1	FIX	3.00°	-4.79°	0.0	0.0
Box 1	126 Both HF 0dB	100	2	FIX	6.00°	-10.79°	0.0	0.0
Box 1	1220 Both HF 0dB	100	3	FIX	13.00°	-23.79°	-3.0	0.0
Box 1	1220 Lower HF-3dB	100	4	FIX	20.00°	-43.79°	-6.0	0.0

REV	DATE	DESCRIPTION

DRAWN BY RC	PROJECT NUMBER 2023-105
CHECKED BY SCS	DATE 12/16/2024
AUDITORIUM AV SYSTEM SPEAKER CLUSTER DETAILS	
BUILDING NUMBER HS	SHEET NUMBER TS110 BID



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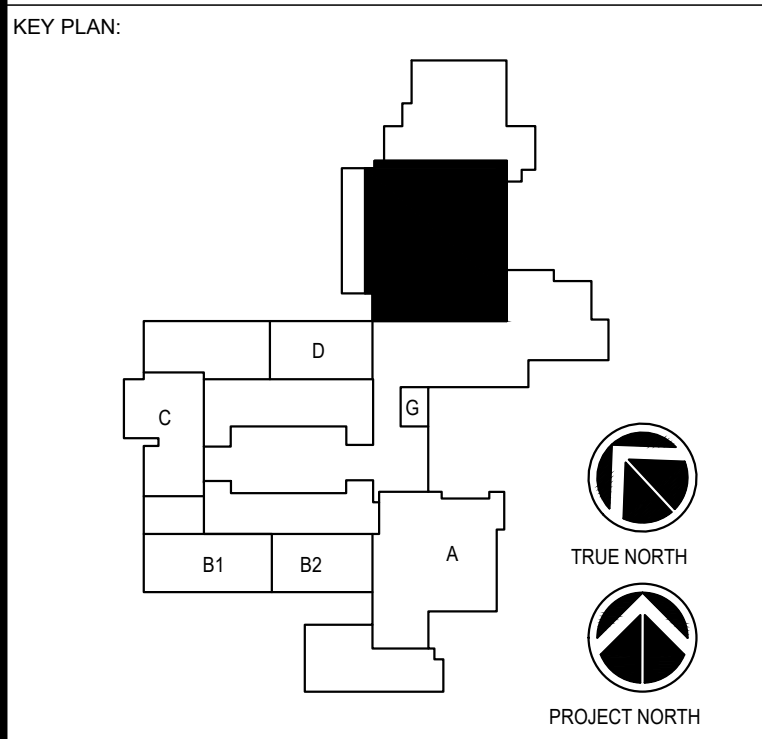
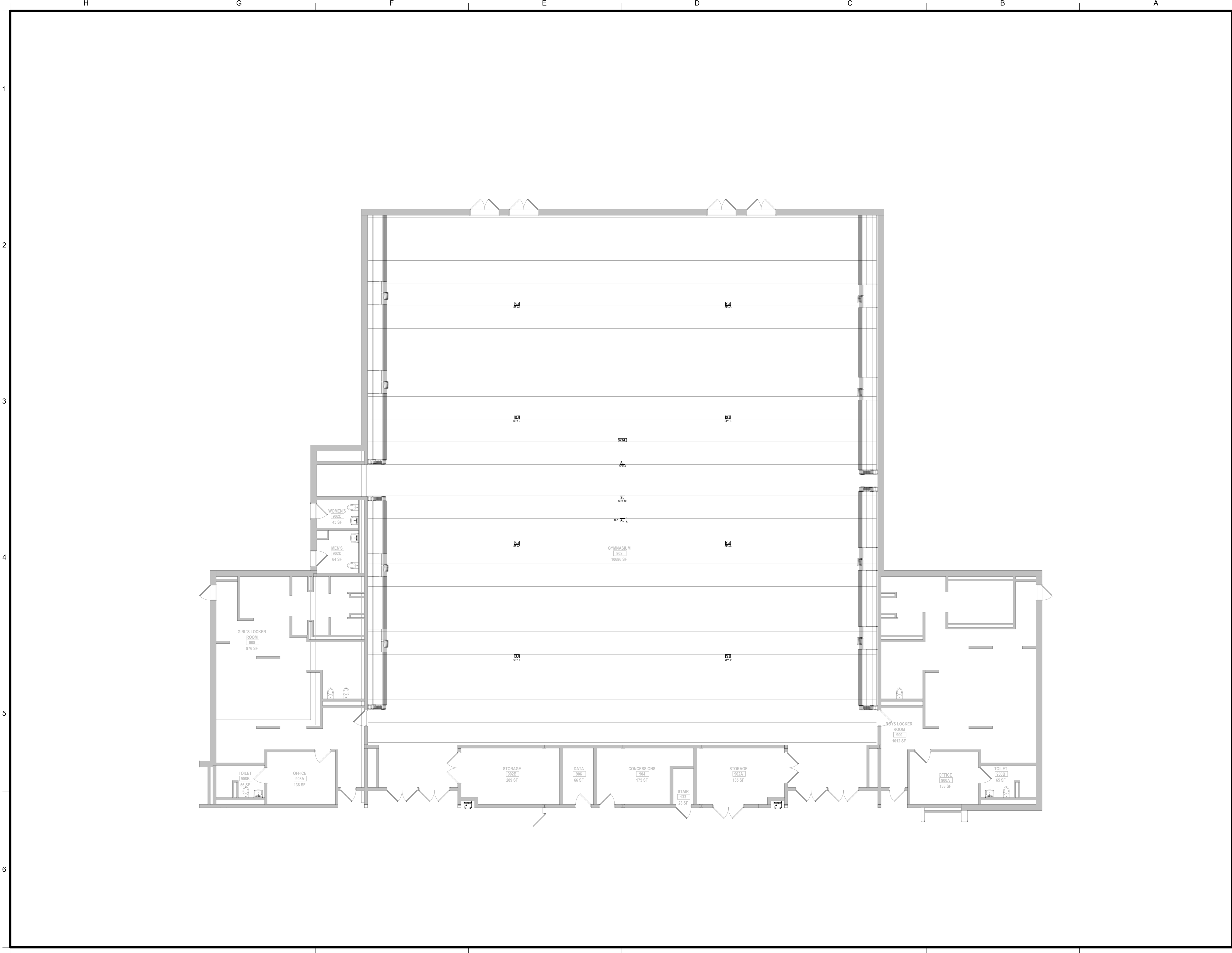
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 113 Woodbury Ln, Painesville, NY 13666 315.234.4567

REV	DATE	DESCRIPTION

DRAWN BY RC	PROJECT NUMBER 2023-105
CHECKED BY SCS	DATE 12/16/2024

**GYM SOUND SYSTEM
 LOWER DEVICE PLAN**

BUILDING NUMBER HS	SHEET NUMBER TS200 BID
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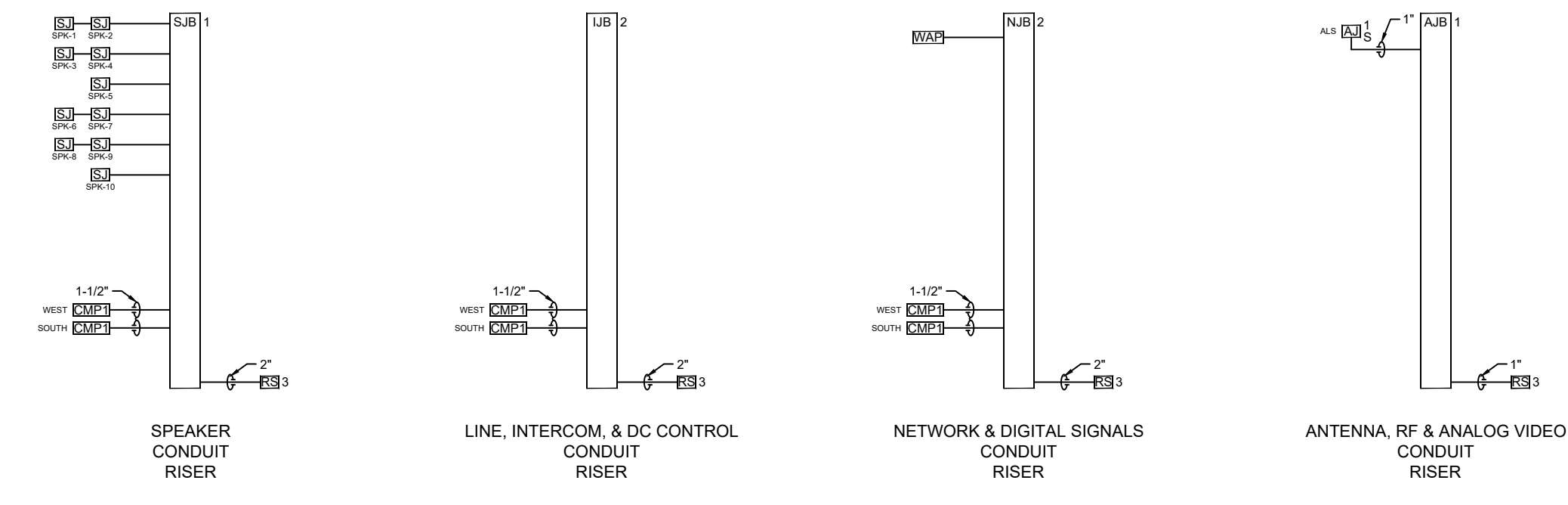
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REV	DATE	DESCRIPTION
DRAWN BY	PROJECT NUMBER	
RC	2023-105	
CHECKED BY	DATE	
SCS	12/16/2024	
GYM SOUND SYSTEM UPPER DEVICE PLAN		
BUILDING NUMBER	SHEET NUMBER	
HS	TS201	BID



**AUDIO VIDEO SYSTEM
CONDUIT RISERS NOTES**

- DEFINITIONS:**
- FURNISHED - TO SUPPLY THE EQUIPMENT OR DEVICE NEEDED.
 - INSTALL - TO PROPERLY PLACE AND ATTACH THE EQUIPMENT OR DEVICE.
 - PROVIDED - EQUIPMENT OR DEVICES THAT ARE FURNISHED AND INSTALLED.
- NOTES:**
- ALL BACKBOXES PROVIDED BY ELECTRICAL CONTRACTOR UNLESS OTHERWISE NOTED.
 - ALL BACKBOXES FURNISHED BY OTHERS ARE INSTALLED BY ELECTRICAL CONTRACTOR.
 - ALL LINE & LOAD CONDUIT, WIRE, AND TERMINATIONS PROVIDED BY ELECTRICAL CONTRACTOR.
 - ALL CONTROL CONDUIT, JUNCTION BOXES, AND HARDWARE PROVIDED BY ELECTRICAL CONTRACTOR.
 - ALL CONTROL WIRE AND TERMINATIONS PROVIDED BY AUDIO VIDEO CONTRACTOR UNLESS OTHERWISE NOTED.
 - REVIEW ANY RELATED RISER DIAGRAM, DEVICE LEGEND, FLOOR PLAN, AND CIRCUIT DISTRIBUTION DOCUMENTS FOR DETAILS.
 - ALL CONDUIT IS 3/4" UNLESS NOTED OTHERWISE.
 - ELECTRICAL CONTRACTOR SHALL INSTALL A PULL STRING IN ALL CONDUIT. FLAG EACH PULL STRING WITH UNIQUE CONDUIT NUMBER.
 - ELECTRICAL CONTRACTOR SHALL INSTALL PLASTIC BUSHINGS ON ALL CONDUIT ENDS.
 - DEVICES SHOWN ON THESE DRAWINGS ARE FOR REFERENCE ONLY. AV CONTRACTOR SHALL SUBMIT SHOP DRAWINGS SHOWING LOCATIONS OF ALL DEVICES AND EQUIPMENT ALONG WITH CATALOG CUT SHEETS. FINAL LOCATION OF ALL DEVICES SHALL BE BASED ON APPROVED AV CONTRACTOR SHOP DRAWINGS AND COORDINATION WITH AV CONTRACTOR.

GYM AUDIO POWER

- POWER CIRCUITS:
 - ALL GYM AUDIO SYSTEM POWER CIRCUITS SHALL ORIGINATE FROM THE SAME PANEL BOARD.
 - ALL CIRCUITS SHALL BE DEDICATED 120V, 20 AMP UNLESS OTHERWISE NOTED.
 - ALL 120V CIRCUITS SHALL HAVE EDUCATED NEUTRAL CONDUCTORS.
 - ALL BRANCH CIRCUIT EQUIPMENT PROVIDED BY THE ELECTRICAL CONTRACTOR.

THE FOLLOWING CIRCUITS ARE REQUIRED:

 - FOUR FOR THE MAIN RACK "R13"
 - ONE AT THE WEST CMPI DEVICE LOCATION TERMINATED IN A NEMA LS-20 RECEPTACLE.
 - ONE AT THE SOUTH CMPI DEVICE LOCATION TERMINATED IN A NEMA LS-20 RECEPTACLE.
- EQUIPMENT RACK POWER: ALL RACK POWER SHALL TERMINATE IN A JBOX WITHIN EACH RACK. THIS JBOX AND ALL INTERNAL RACK POWER WIRING WILL BE PROVIDED BY THE THEATRICAL AUDIO AND VIDEO CONTRACTOR. ALL OTHER WIRING, CONDUIT, ETC. SHALL BE PROVIDED BY THE ELECTRICAL CONTRACTOR.
- EMERGENCY INTERFACE - THE AUDIO VIDEO SYSTEM INCLUDES THE ABILITY FOR EMERGENCY OVERRIDE THAT WHEN TRIGGERED WILL MUTE THE ENTIRE SYSTEM. THIS OVERRIDE INTERFACES WITH THE EMERGENCY SYSTEM VIA A SET OF CONTACTS LOCATED WITHIN R13. THE FIRE ALARM CONTRACTOR SHALL PROVIDE A DEVICE OR INTERFACE AND ALL WIRING TO LOCATE A NORMALLY OPEN SET OF DRY CONTACTS AT R13. ALL OPERATIONAL PARAMETERS AND DETAILS INVOLVED IN ACTUALLY TRIGGERING THE EMERGENCY OVERRIDE ARE LEFT TO THE RELEVANT PROJECT ENGINEERS.

DESCRIPTION	GROUP	CONDUIT MINIMUM SPACING					
		A	B	C	D	E	F
MICROPHONE	A	ADJACENT	0'-6"	1'-0"	1'-0"	1'-0"	ADJACENT
LINE / CONTROL	B	0'-6"	ADJACENT	0'-6"	0'-6"	0'-6"	ADJACENT
SPEAKER	C	1'-0"	0'-6"	ADJACENT	0'-6"	0'-6"	ADJACENT
DATA	D	1'-0"	0'-6"	0'-6"	ADJACENT	ADJACENT	ADJACENT
VIDEO	E	1'-0"	0'-6"	0'-6"	ADJACENT	ADJACENT	ADJACENT
FIBER OPTIC	F	ADJACENT	ADJACENT	ADJACENT	ADJACENT	ADJACENT	ADJACENT
120 / 208V POWER	POWER < 60A	2'-0"	2'-0"	2'-0"	2'-0"	2'-0"	ADJACENT
	POWER +60, <120A	4'-0"	4'-0"	4'-0"	4'-0"	4'-0"	ADJACENT
	POWER > 120A	5'-4"	5'-4"	5'-4"	5'-4"	5'-4"	ADJACENT

CONDUIT REQUIREMENTS

- INFRASTRUCTURE FOR SOUND, VIDEO, AND AV SYSTEMS MUST CONFORM TO SPECIFIC REQUIREMENTS THAT ARE NECESSARY TO PREVENT COMPROMISING VISIBLE AND AUDIBLE ELECTROMAGNETIC NOISE AND INTERFERENCE.
- ALL AV CABLES MUST BE INSTALLED IN CONDUIT.
- ALL AV CONDUIT MUST BE STEEL EXCEPT LOCATIONS WHERE THE CODE REQUIRES ONLY PVC CONDUITS BE USED.
- CABLES IS DIVIDED INTO GROUPS BASED ON NOMINAL OPERATING VOLTAGE AND SIGNAL TYPE.
- ONLY CABLES OF THE SAME GROUP CAN OCCUPY THE SAME CONDUIT.
- ONLY AV CABLES IS ALLOWED IN AV CONDUITS.
- THE MINIMUM CONDUIT GROUP SPACING MUST BE MAINTAINED.
- WHERE CONDUITS APPROACH DEVICES AND BACKBOXES MAINTAIN CONDUIT SPACING AS MUCH AS PRACTICAL.
- CONDUITS ENTERING THE SIDES OF BOXES MUST BE LOCATED TOWARDS THE REAR OF THE BOX AS MUCH AS POSSIBLE.
- IF CABLES IS IN OTHER THAN STEEL CONDUIT THEN DOUBLE THE MINIMUM SPACING REQUIREMENTS LISTED.
- IF CONDUITS CROSS AT RIGHT ANGLES THEN QUARTER THE MINIMUM SPACING REQUIREMENTS LISTED.
- ALL CONDUIT IS 3/4" UNLESS SHOWN OTHERWISE.
- DATA AND VIDEO CABLES IS SUBJECT TO DISTANCE LIMITATIONS. ROUTE ALL GROUP D AND E CONDUIT SO THAT THE MAXIMUM TOTAL CONDUIT LENGTH DOES NOT EXCEED 280 FEET.
- INSTALL PULL BOXES IN CONVENIENT LOCATIONS SO THAT THE DISTANCE BETWEEN PULL POINTS DOES NOT EXCEED 100 FEET.

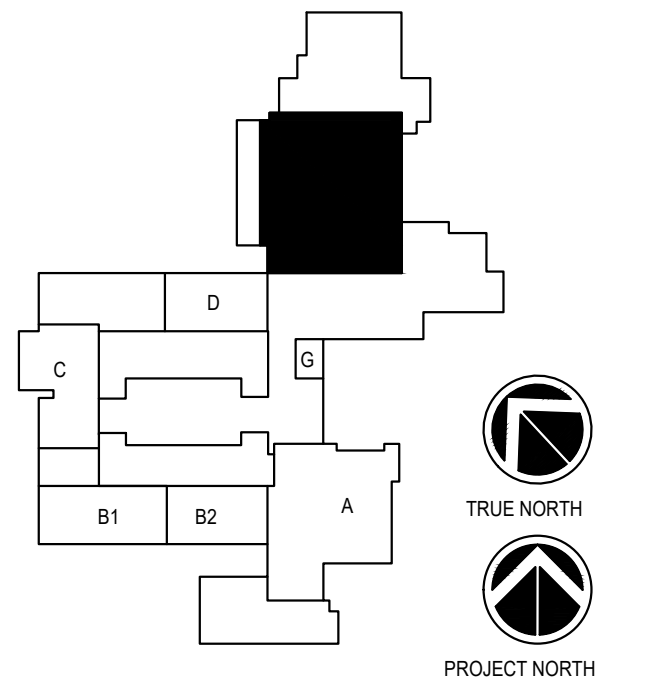
DEVICE LEGEND

ANTENNA JACK 4" SQUARE 3-1/2" DEEP TWO GANG TRIM RING ALS = SURFACE MOUNT TO TRUSS	AV RACK 3 PROVIDED BY AV CONTRACTOR
ANTENNA JUNCTION BOX 6X6X4 SCREW COVER BOX SURFACE MOUNT INSTALL ABOVE AV RACK 3	SPEAKER JUNCTION BOX 10X10X8 SCREW COVER BOX SURFACE MOUNT INSTALL ABOVE AV RACK 3
COMBINATION PANEL TYPE 1 BACKBOX FURNISHED BY AV CONTRACTOR SURFACE MOUNT AT 18" AFF	SPEAKER JACK 4" SQUARE 3-1/2" DEEP BOX ONE GANG TRIM RING SURFACE MOUNT TO TRUSS
INTERCOM JUNCTION BOX 6X6X4 SCREW COVER BOX SURFACE MOUNT INSTALL ABOVE AV RACK 3	WIRELESS ACCESS POINT 4" SQUARE 3-1/2" DEEP BOX ONE GANG TRIM RING SURFACE MOUNT TO TRUSS
NETWORK JUNCTION BOX 6X6X4 SCREW COVER BOX SURFACE MOUNT INSTALL ABOVE AV RACK 3	

**AUDIO VIDEO SYSTEM
DEVICE LEGEND NOTES**

- DEFINITIONS:**
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 - INSTALL - TO PROPERLY PLACE AND ATTACH THE EQUIPMENT OR DEVICE.
 - PROVIDED - EQUIPMENT OR DEVICES THAT ARE FURNISHED AND INSTALLED.
- NOTES:**
- ALL BACK BOXES PROVIDED BY ELECTRICAL CONTRACTOR UNLESS OTHERWISE NOTED.
 - ALL BACKBOXES FURNISHED BY OTHERS ARE INSTALLED BY ELECTRICAL CONTRACTOR.
 - ALL LINE & LOAD CONDUIT, WIRE, AND TERMINATIONS PROVIDED BY ELECTRICAL CONTRACTOR.
 - ALL CONTROL CONDUIT, JUNCTION BOXES, AND HARDWARE PROVIDED BY ELECTRICAL CONTRACTOR.
 - ALL CONTROL WIRE AND TERMINATIONS PROVIDED BY AUDIO VIDEO CONTRACTOR UNLESS OTHERWISE NOTED.
 - REVIEW ANY RELATED RISER DIAGRAM, DEVICE LEGEND, FLOOR PLAN, AND CIRCUIT DISTRIBUTION DOCUMENTS FOR DETAILS.
 - DEVICES SHOWN ON THESE DRAWINGS ARE FOR REFERENCE ONLY. AV CONTRACTOR SHALL SUBMIT SHOP DRAWINGS SHOWING LOCATIONS OF ALL DEVICES AND EQUIPMENT ALONG WITH CATALOG CUT SHEETS. FINAL LOCATION OF ALL DEVICES SHALL BE BASED ON APPROVED AV CONTRACTOR SHOP DRAWINGS AND COORDINATION WITH AV CONTRACTOR.

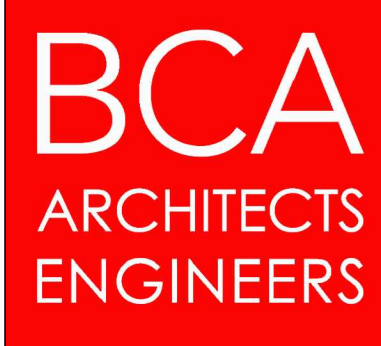
KEY PLAN:



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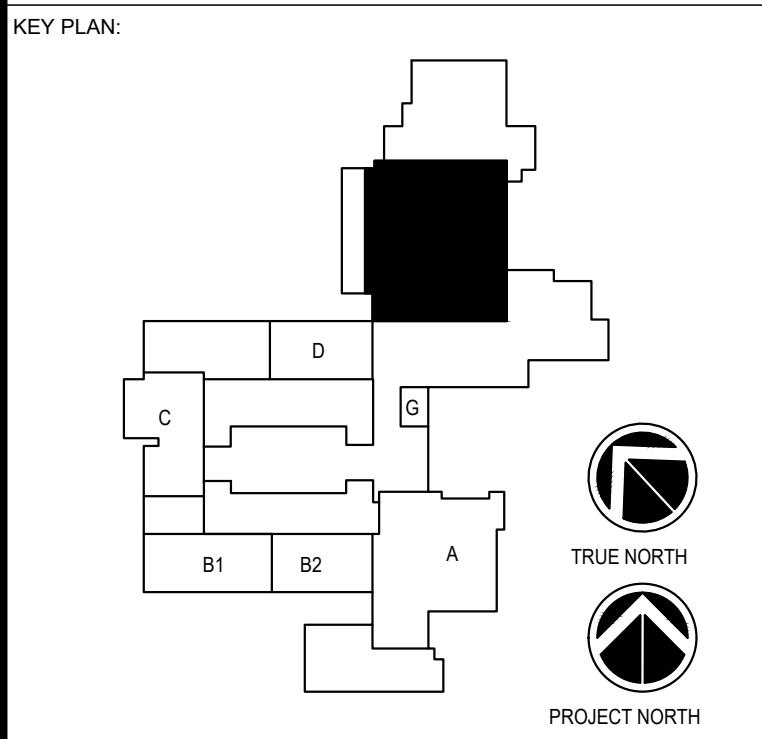
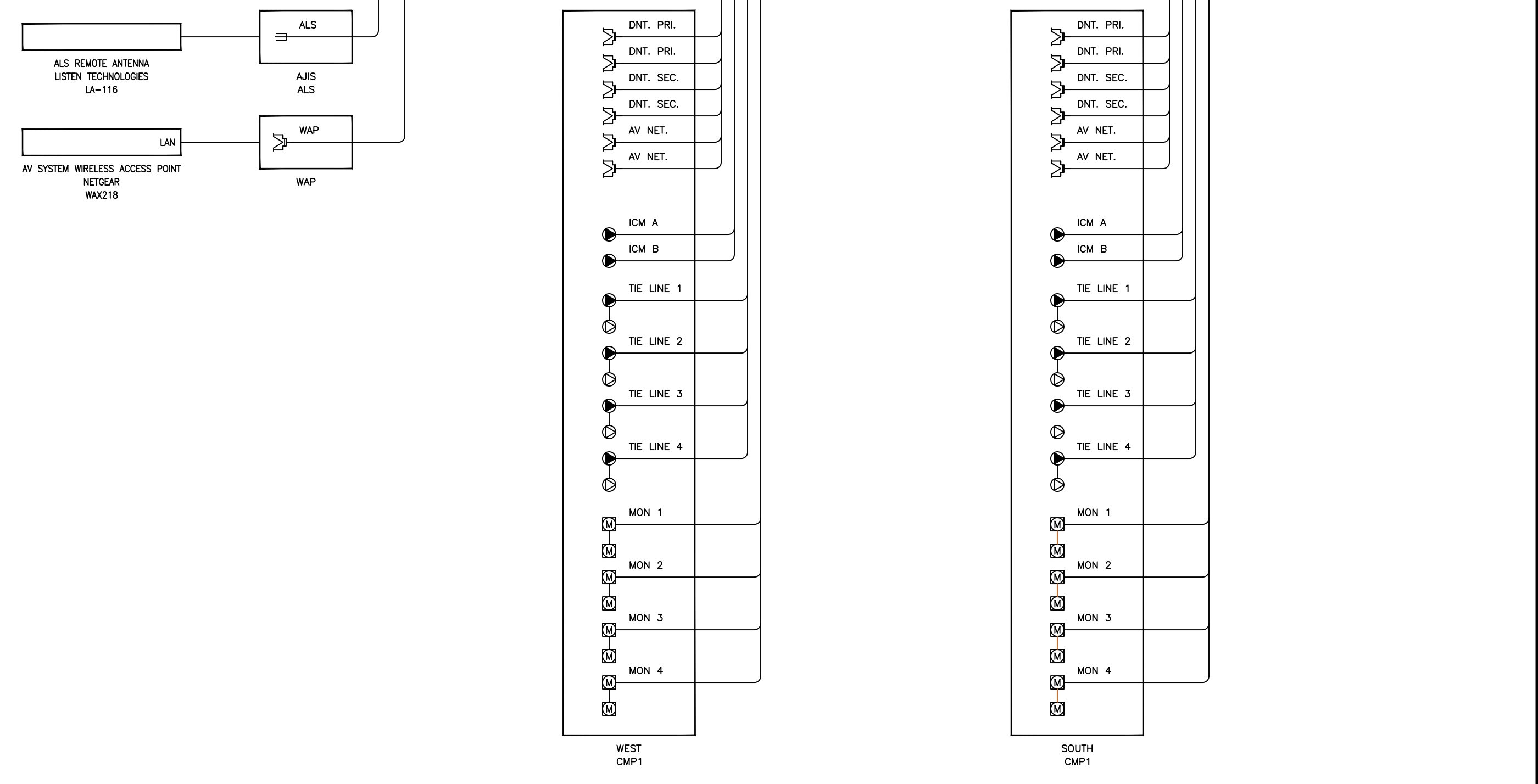
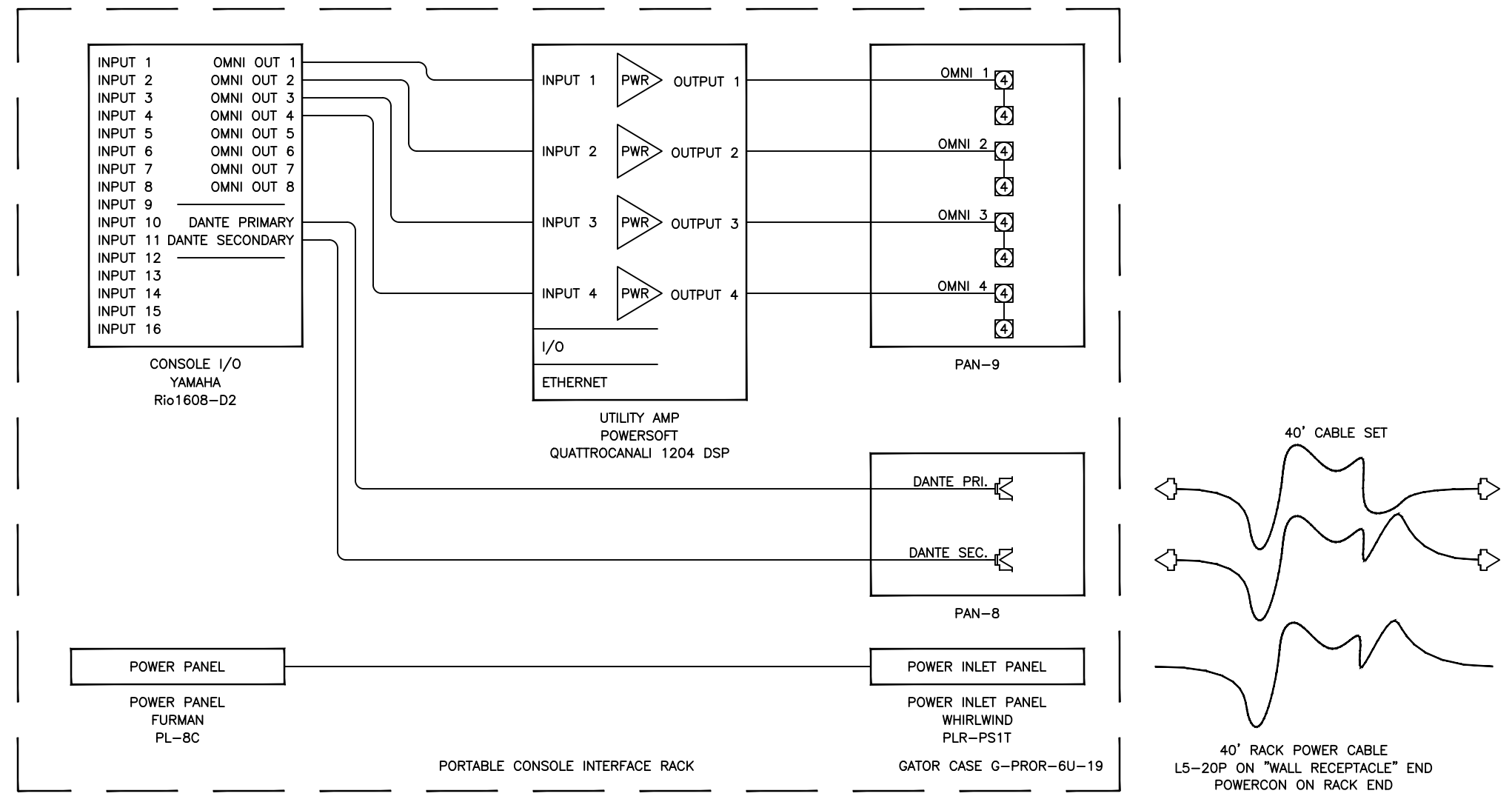
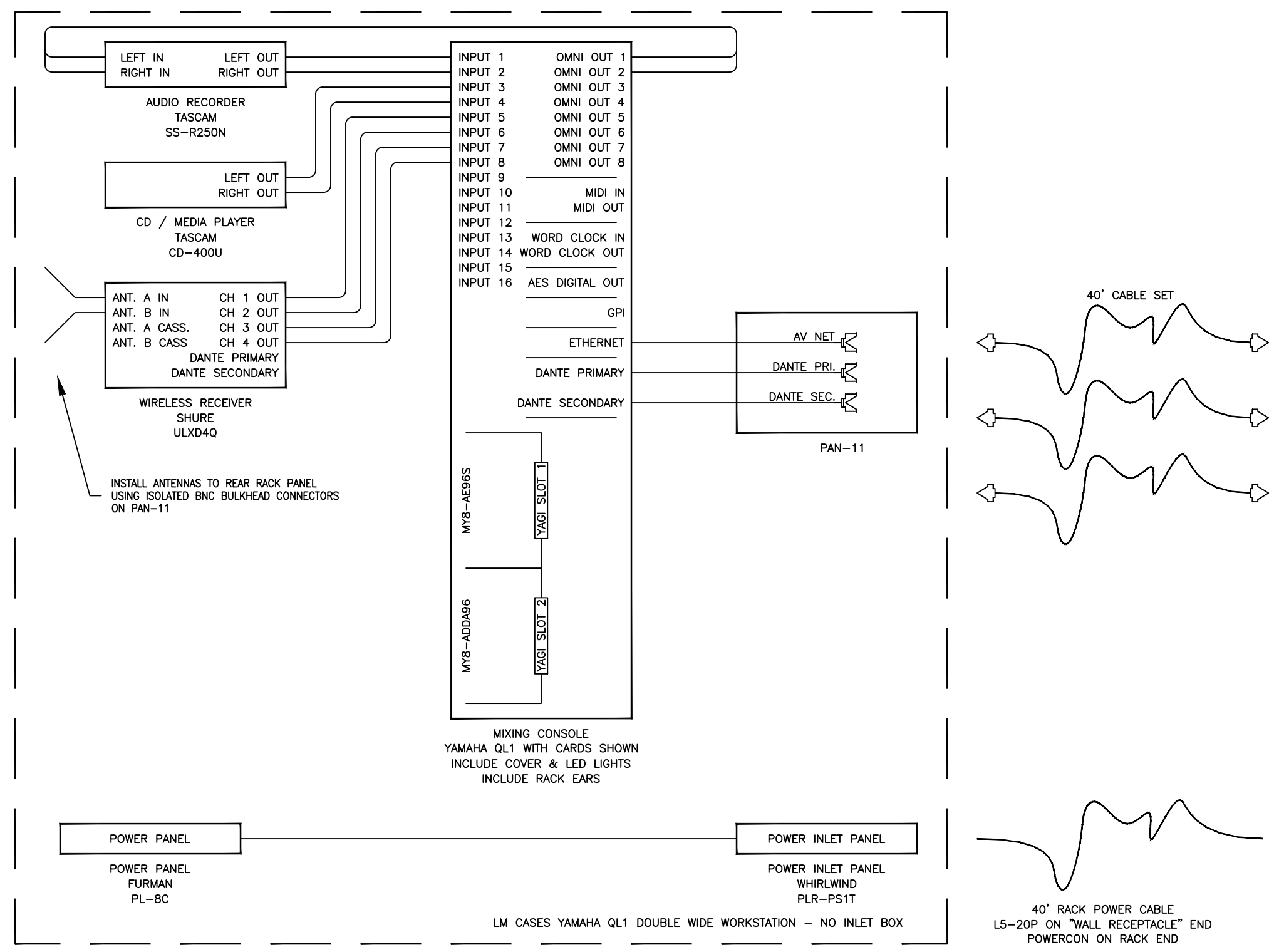
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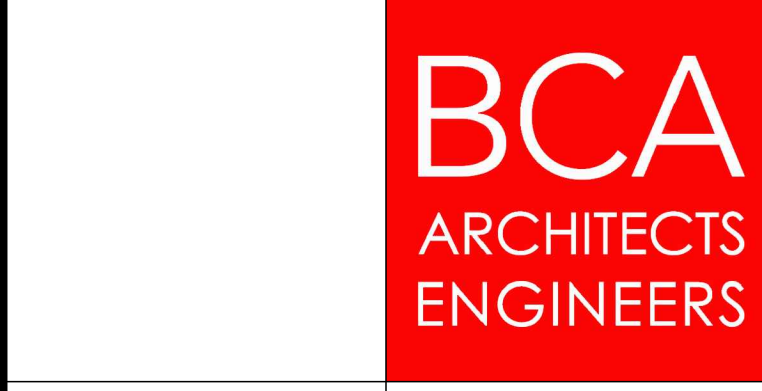
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DRAWN BY RC		PROJECT NUMBER 2023-105
CHECKED BY SCS		DATE 12/16/2024
GYM SOUND SYSTEM CONDUIT RISERS, POWER, LEGEND		
BUILDING NUMBER HS	SHEET NUMBER TS202 BID	

- MIC
- LOW Z & 70V SPEAKER + P.A.
- LINE LEVEL ANALOG AUDIO
- INTERCOM
- DC CONTROL & SIGNALING NETWORK / DANTE / CAT5A
- DIGITAL MEDIA
- AES EBU TWISTED PAIR
- COAX RF / ANALOG VIDEO
- COAX DIGITAL VIDEO

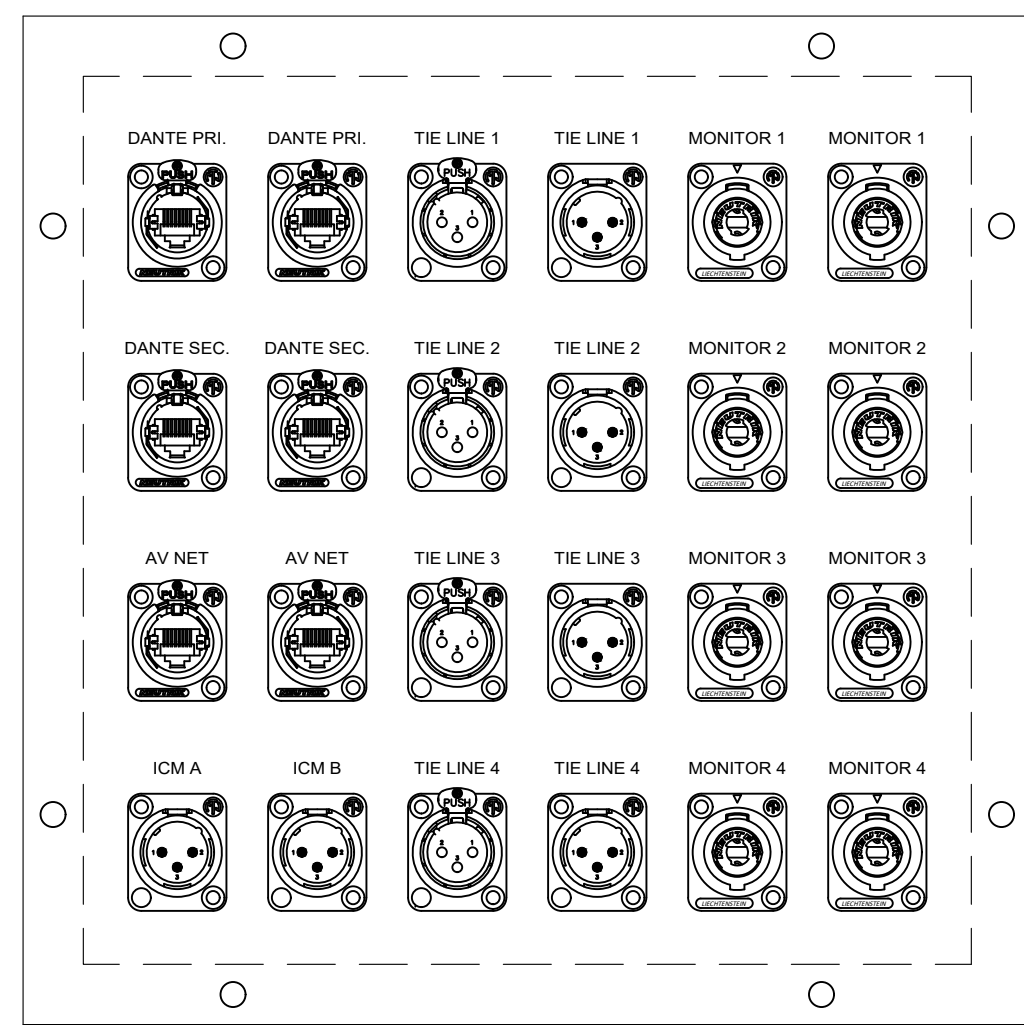


KEY PLAN:
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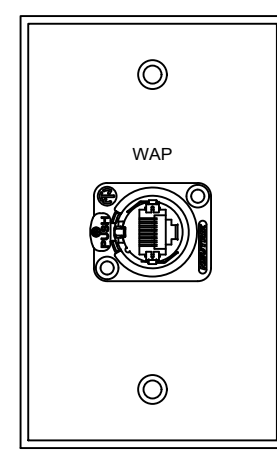
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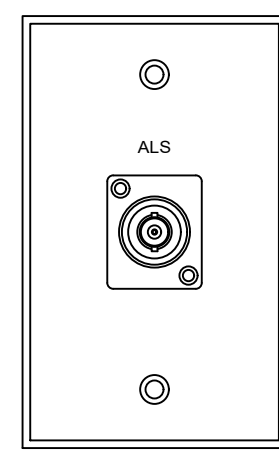
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CHECKED BY SCS		DATE 12/16/2024
GYM SOUND SYSTEM ONE-LINE PART A		
BUILDING NUMBER HS	SHEET NUMBER TS203 BID	



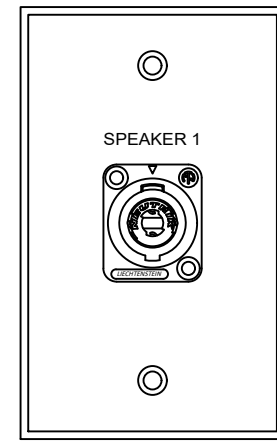
GYM CMP1 (TYPICAL OF 2)



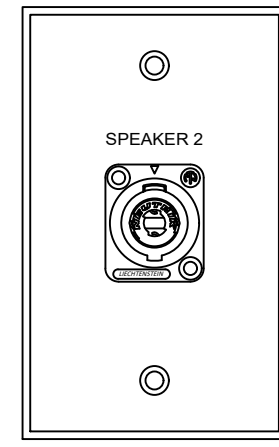
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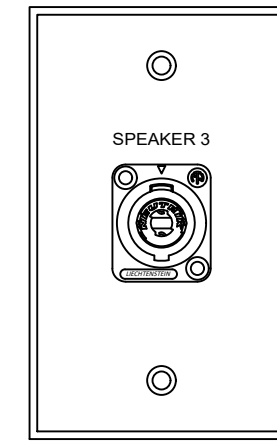
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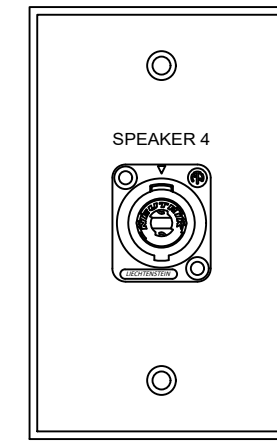
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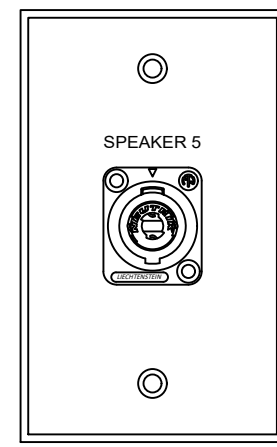
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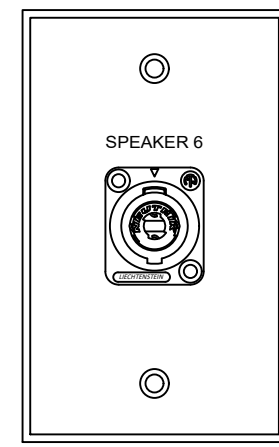
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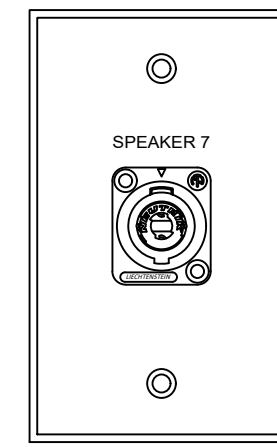
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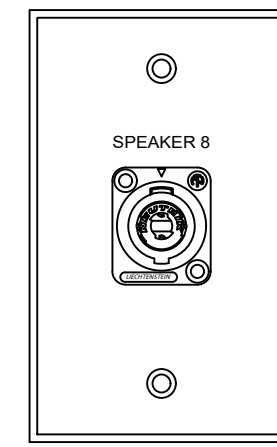
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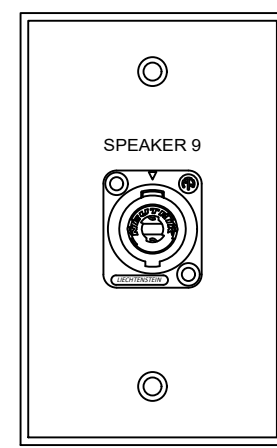
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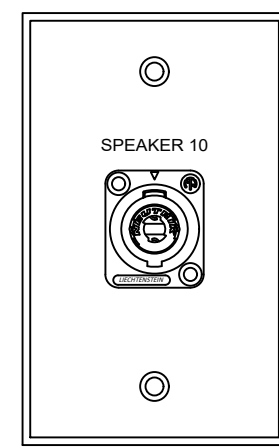
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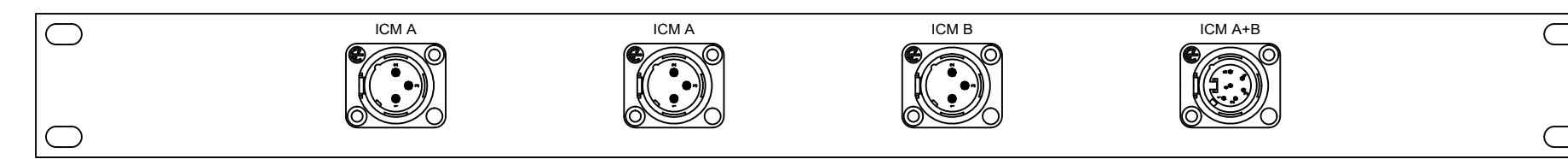
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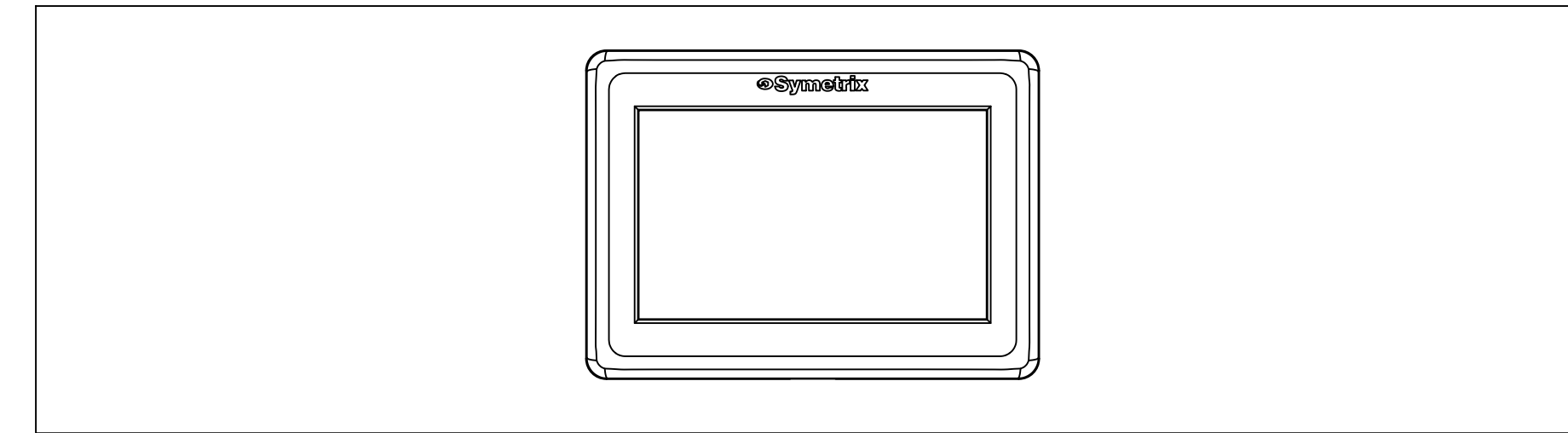
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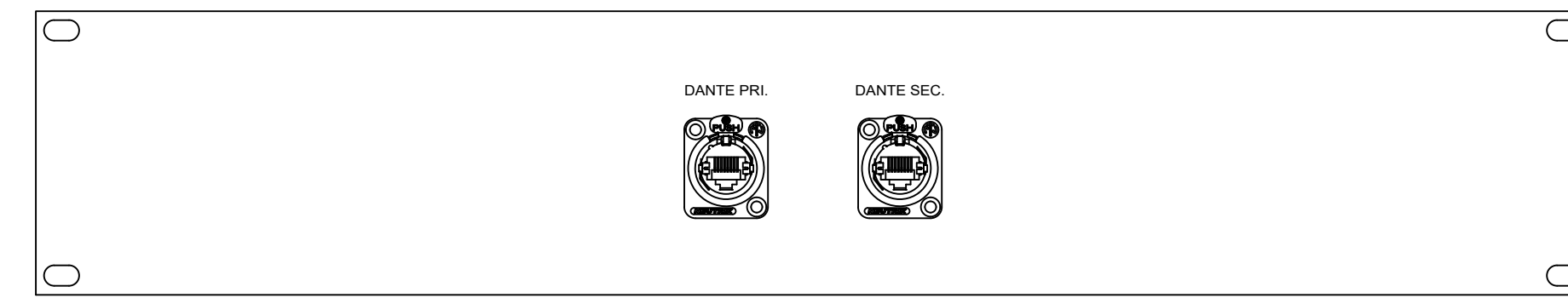
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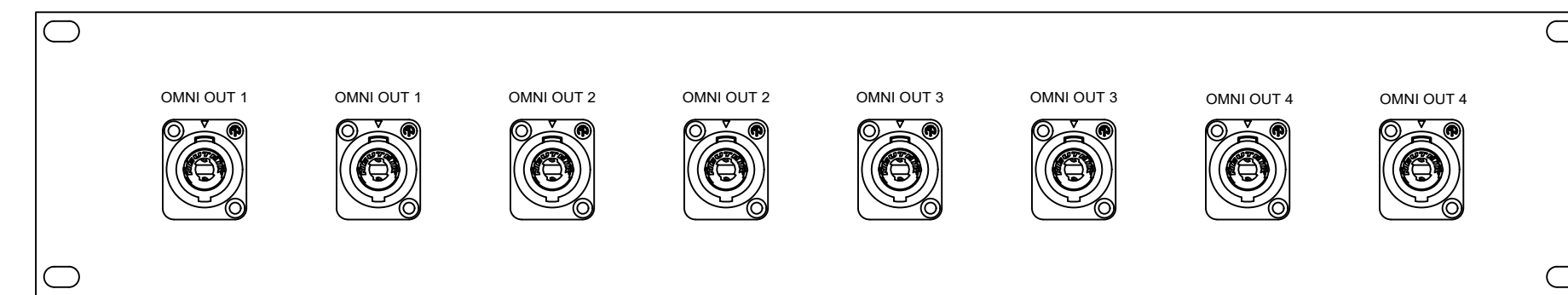
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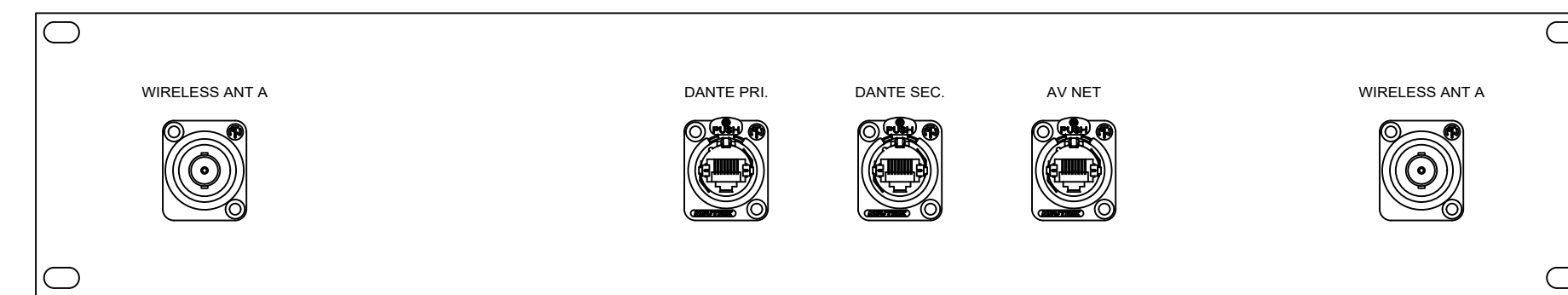
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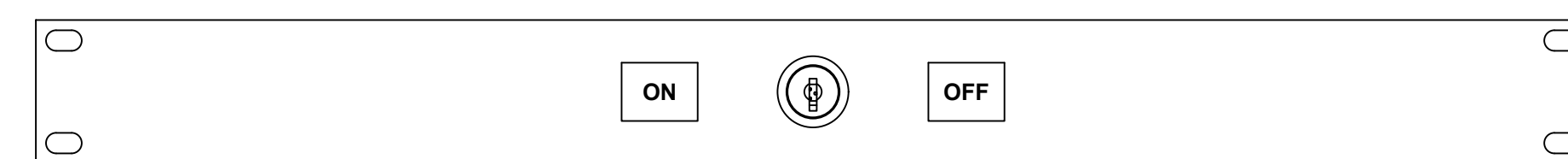
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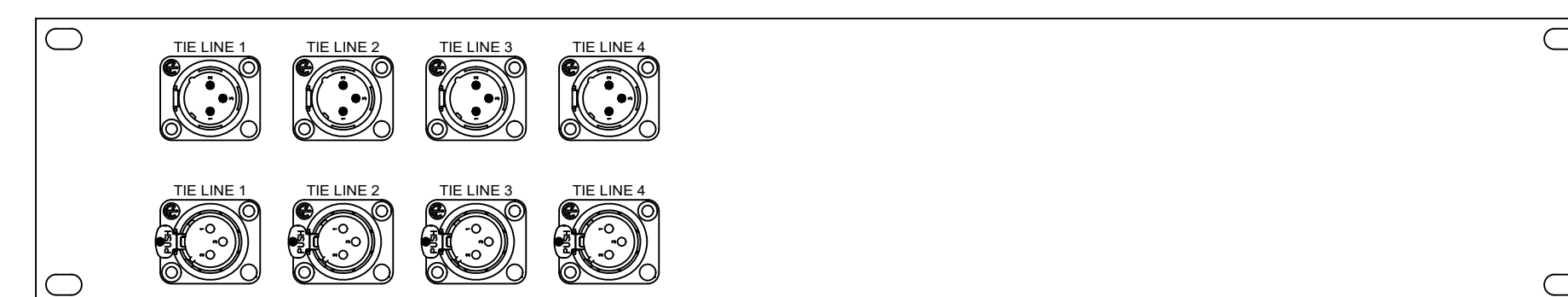
PAN-9



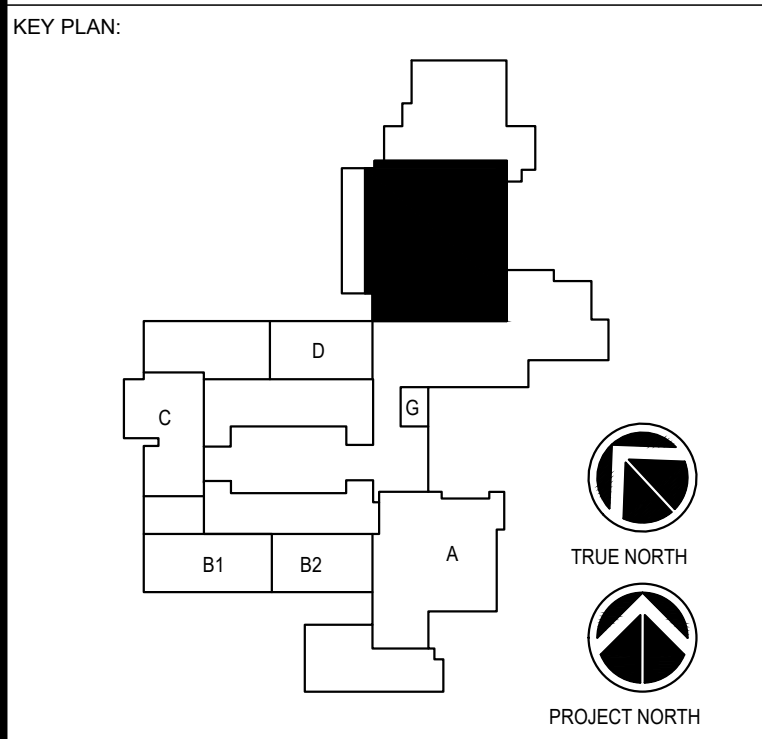
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PAN-12

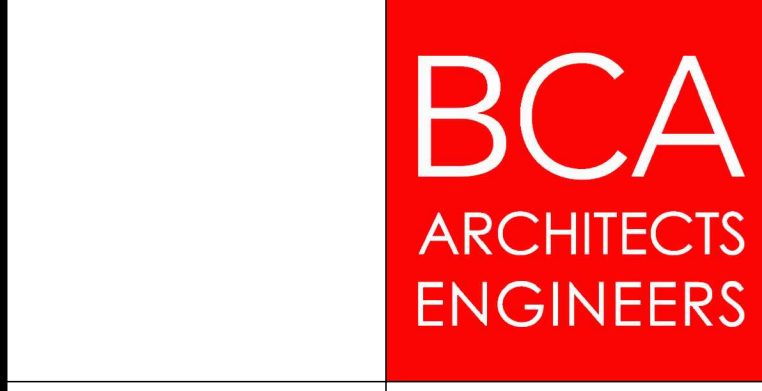


PAN-13



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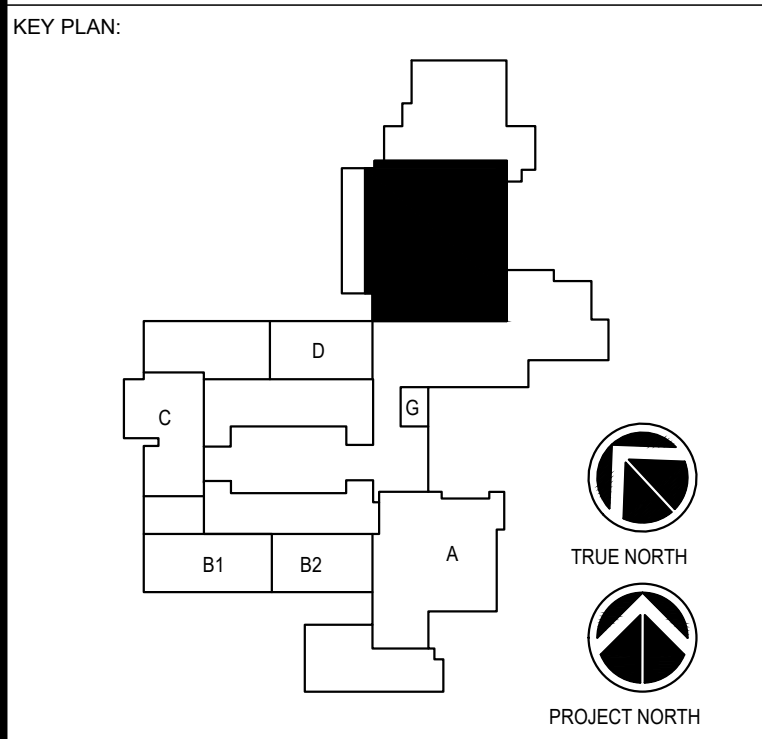
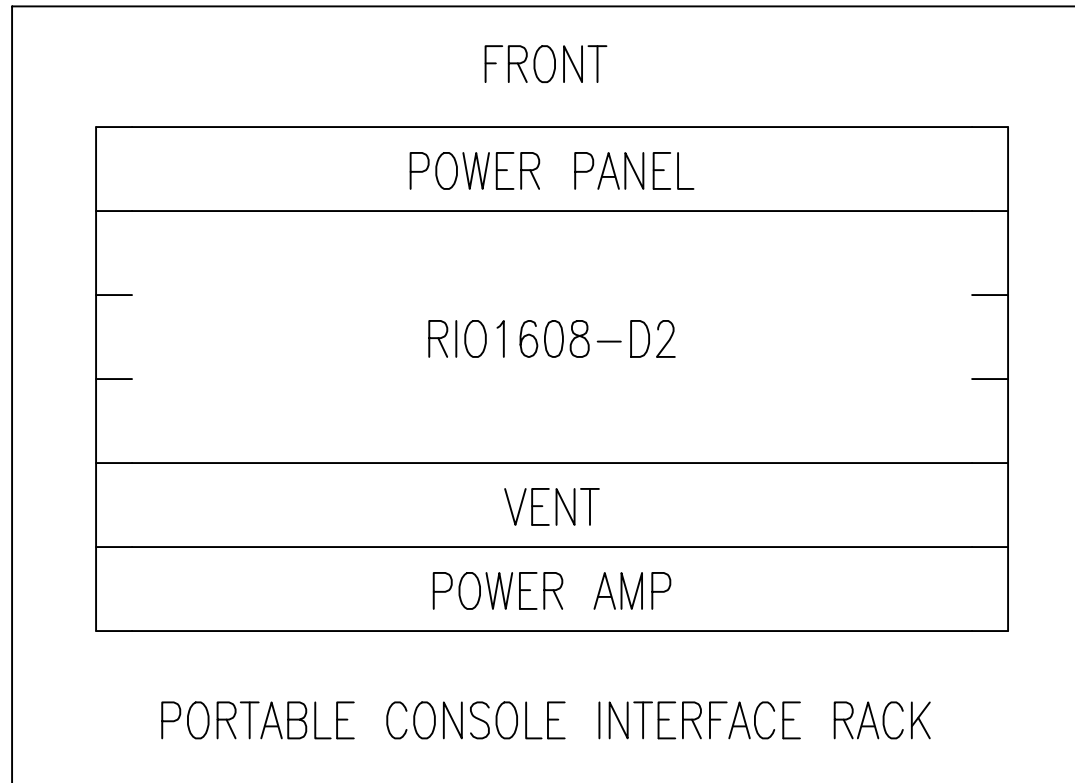
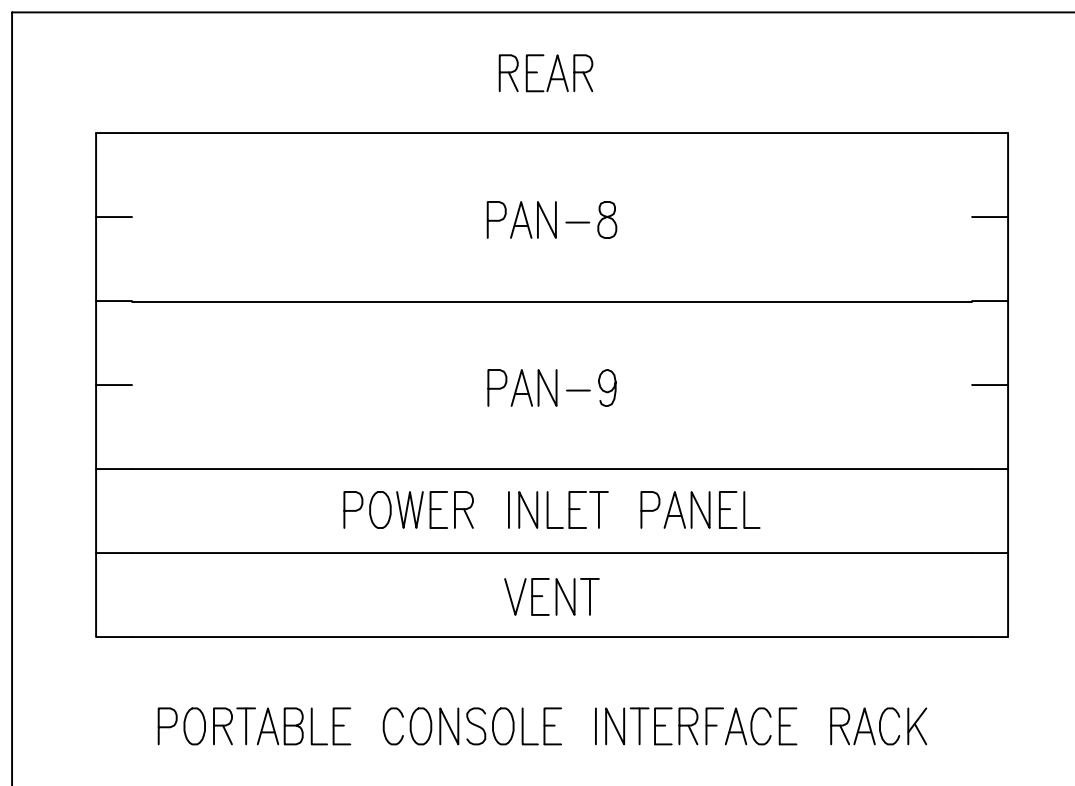
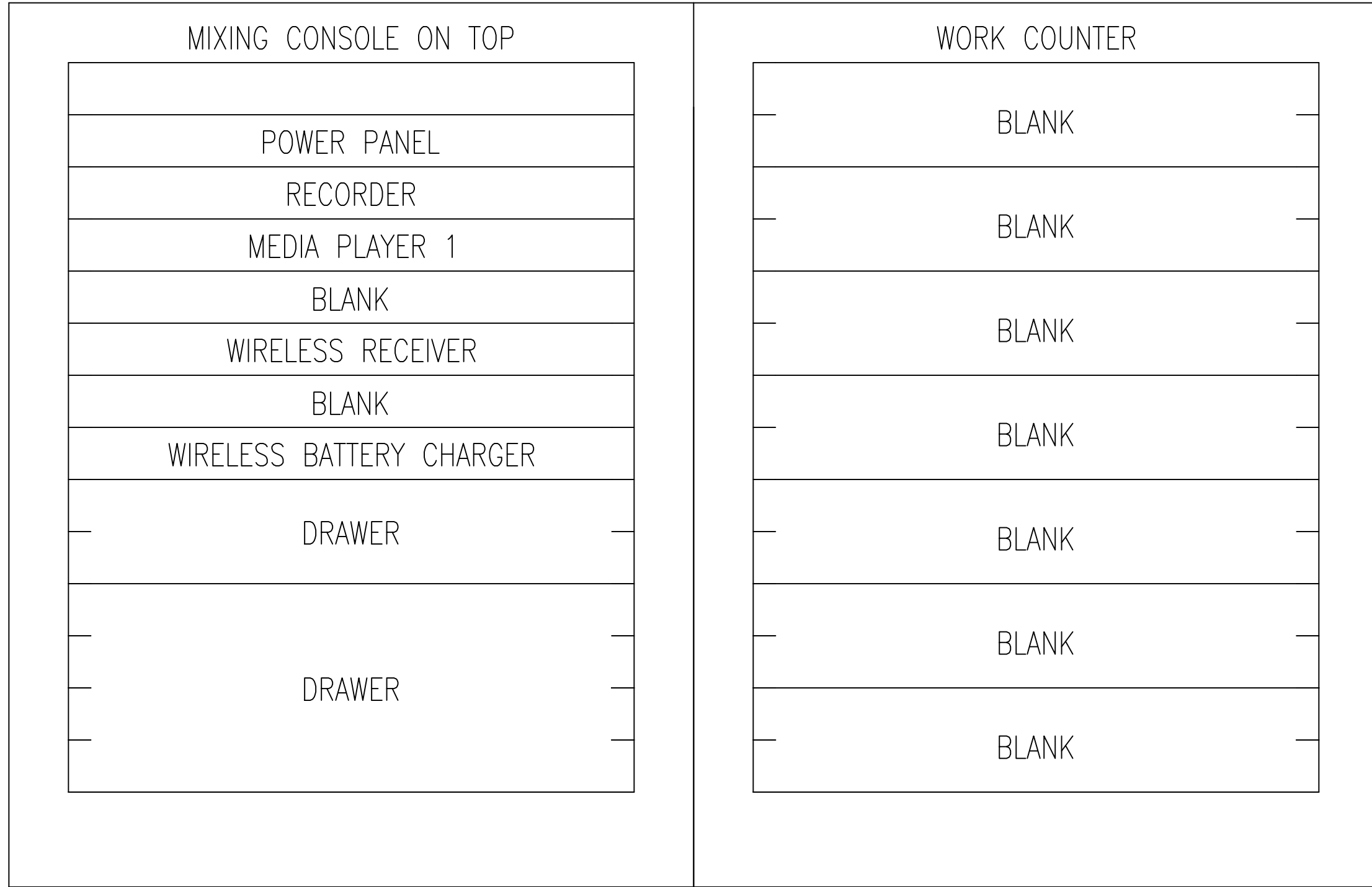
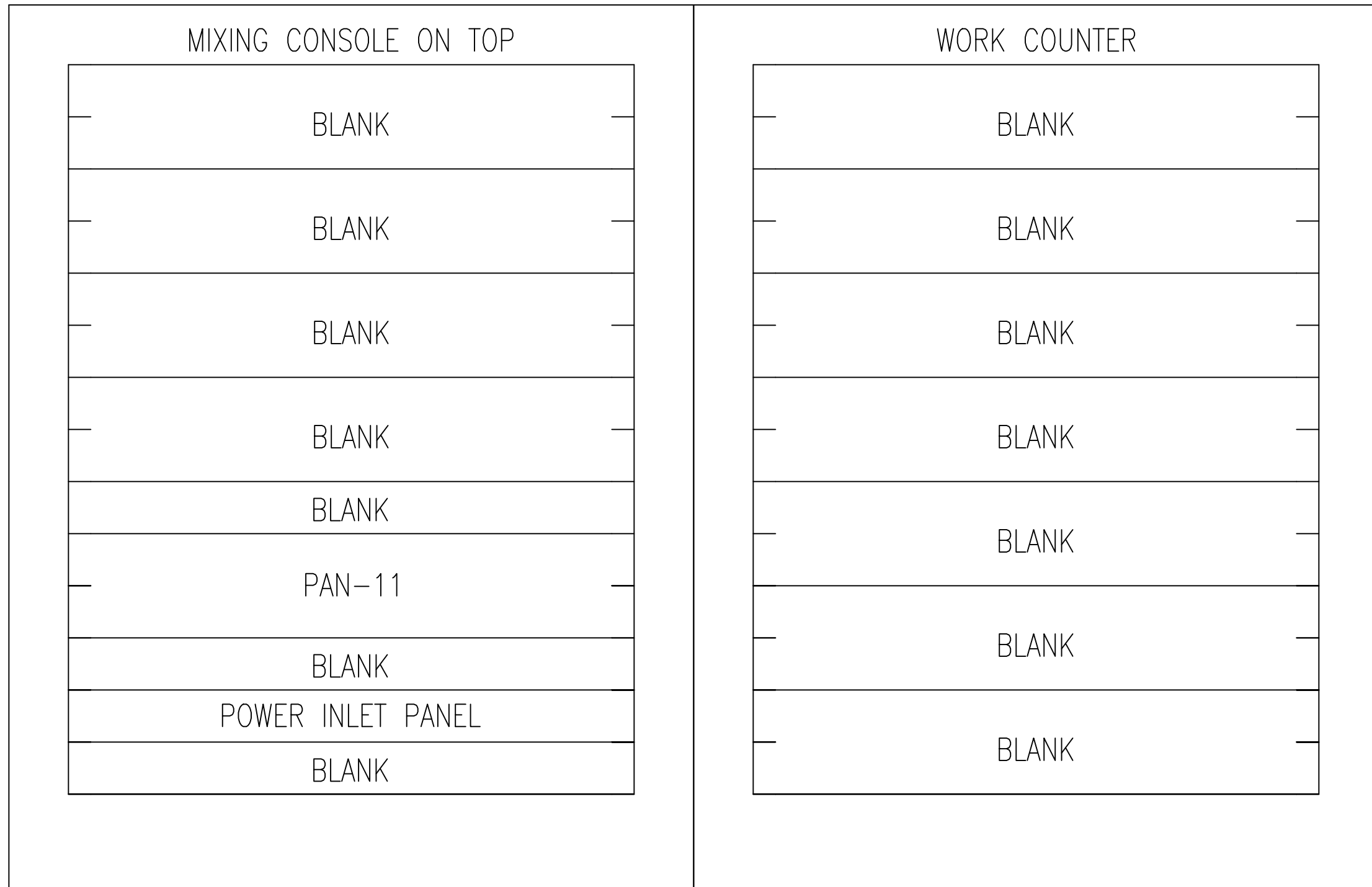
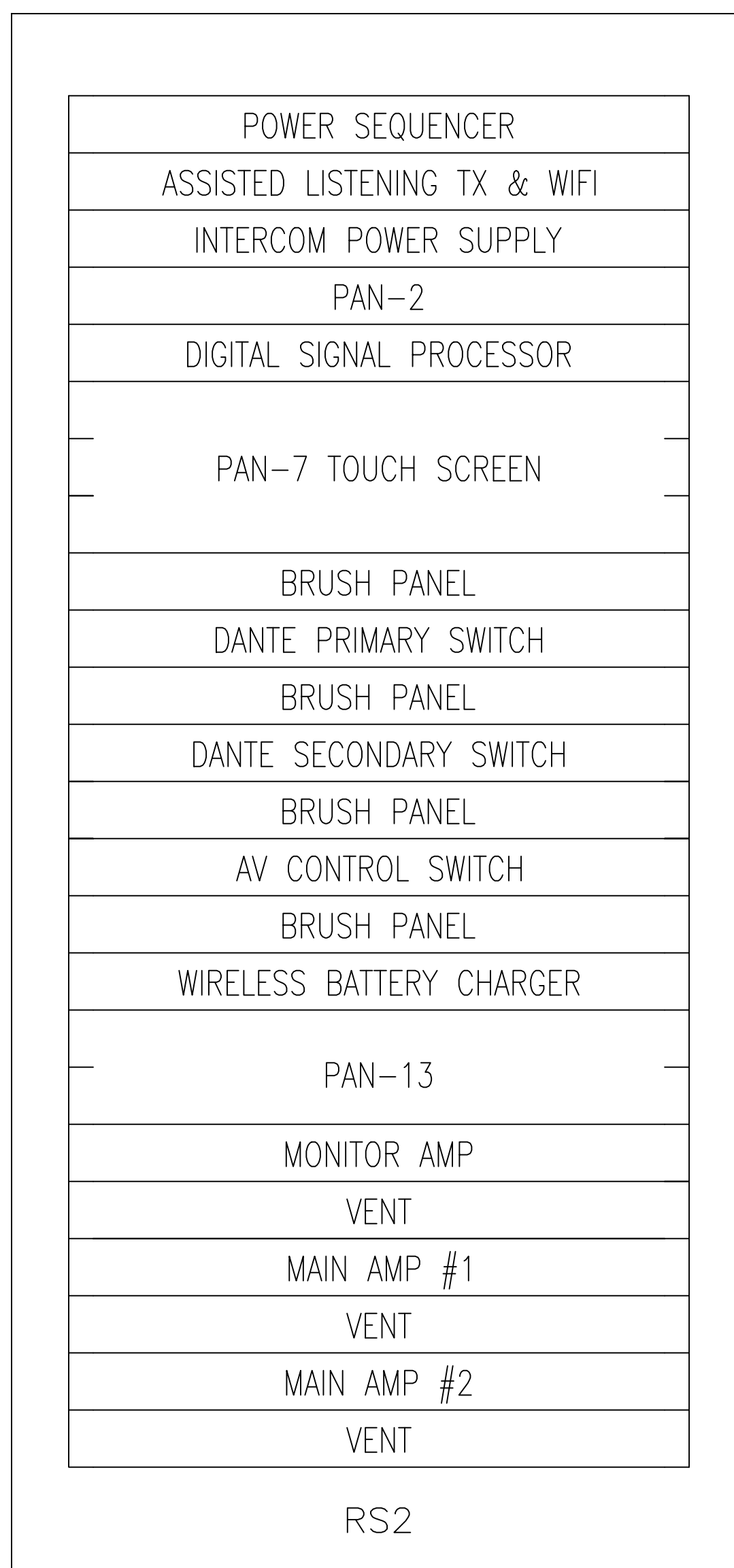


REV	DATE	DESCRIPTION

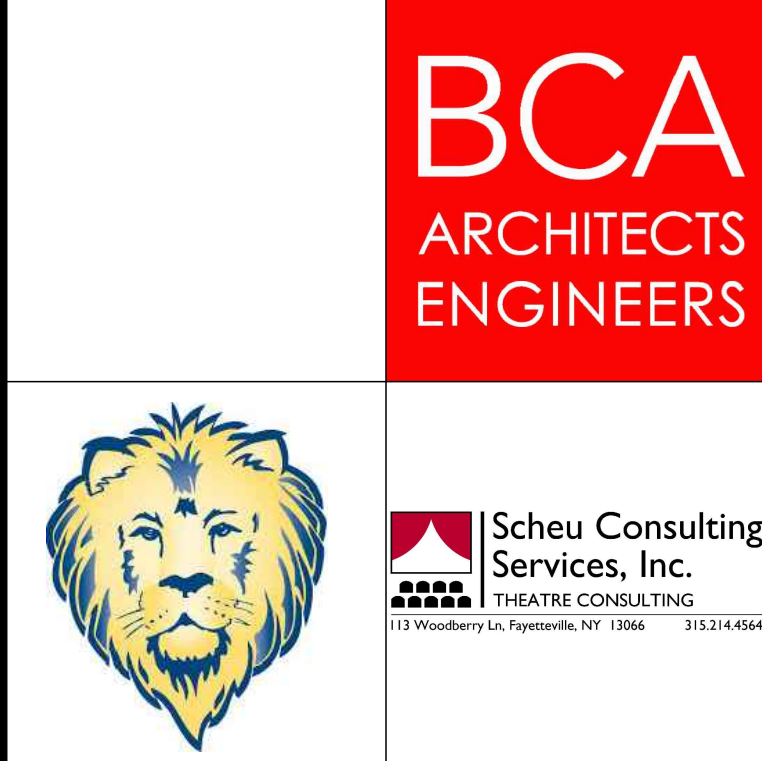
DRAWN BY RC	PROJECT NUMBER 2023-105
CHECKED BY SCS	DATE 12/16/2024
GYM SOUND SYSTEM PLATE AND PANEL DETAILS	
BUILDING NUMBER HS	SHEET NUMBER TS205 BID

H G F E D C B A

1
2
3
4
5
6



SED NO. 22-04-01-04-0-003-010
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CHECKED BY SCS	DATE 12/16/2024

**GYM SOUND SYSTEM
RACK ELEVATIONS**

BUILDING NUMBER HS	SHEET NUMBER TS206 BID
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H G F E D C B A