

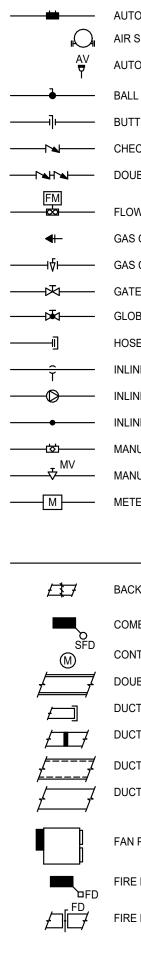
Sunman-Dearborn Community Schools BP#1 - Early Mechanical

ADDENDUM 1

Additional SES Updated Drawings Date: 8/5/24

440 Nowlin Avenue, Greendale, IN 47025





MECHANICAL SYMBOL SCHEDULE

ABBREVIATIONSACCUAIR COOLED CONDENSING UNA.F.FABOVE FINISHED FLOORAFMSAIR FLOW MEASURING STATICAHUAIR HANDLERASAIR SEPARATORADSAIR DIRT SEPARATORBOILERCFCFCEILING FANCHLRCHILLERCHWRCHILLED WATER RETURNCHWSCHILLED WATER SUPPLYCOCARBON MONOXIDE
A.F.FABOVE FINISHED FLOORAFMSAIR FLOW MEASURING STATICAHUAIR HANDLERASAIR SEPARATORADSAIR DIRT SEPARATORBBOILERCFCEILING FANCHLRCHILLERCHWRCHILLED WATER RETURNCHWSCHILLED WATER SUPPLY
CO2CARBON DIOXIDECONDCONDENSATE DRAINCUHCABINET UNIT HEATERCWRCONDENSER WATER RETURNCWSCONDENSER WATER SUPPLYDDIFFUSERDCDUCT COILEFEXHAUST FANEGEXHAUST GRILLEETEXPANSION TANKFFURNACEFDFIRE DAMPERFMFLOW METERFTRFINNED TUBE RADIATIONHPSRHIGH PRESSURE STEAM RETUHPSSHIGH PRESSURE STEAM SUPPHVACHEATING VENTILATING AND CHWRHOT WATER RETURNHWSHOT WATER SUPPLY-LOUVER
LPSRLOW PRESSURE STEAM RETULPSSLOW PRESSURE STEAM SUPPLRPLINEAR RADIANT PANELMAUMAKE-UP AIR UNITDAOUTSIDE AIRDACOPENING ABOVE CEILINGPPUMPRARETURN AIRRADRADIANT HEATERRELRELIEF AIR
RET RETURN AIR RC ROOF CAP RF RELIEF FAN RG RETURN GRILLE RTU ROOFTOP UNIT RV RELIEF VENT SA SUPPLY AIR SFD SMOKE FIRE DAMPER SR SUPPLY REGISTER TG TRANSFER GRILLE JH UNIT HEATER JV UNIT VENTILATOR VAV VARIABLE AIR VOLUME BOX
TIE-IN OF NEW TO EXISTING
OLS IERMOSTAT IERMOSTAT (LINE VOLTAGE) IERMOSTAT WITH HUMIDISTAT AND 02 SENSOR JMIDISTAT
RV SA SF SR JH JV VA IEF IEF IEF IEF

CONTROLS RESPONSIBILITY CHART			
		MECHANICAL	ELECTRICAL CONTRACTOR
INSTALL INTERIOR AND EXTERIOR LOW VOLTAGE CABLING AND CONDUIT	X		•
ROUGH-IN OF THERMOSTAT WALL BOXES	X		
	٨X		1
INSTALL CONTRIOL VALVES		\land x \land	
FURNISH PIPE WELLS FOR SENSORS	×		\smile \bigcirc
INSTALL PIPE WELLS FOR SENSORS		X	
PROVIDE 120 VOLT POWER FOR CONTROL PANELS			Х
PROVIDE 120 VOLT POWER BETWEEN SLAVE PANELS	X		
PROVIDE INTERLOCK WIRING BETWEEN DEVICES, PANELS, BOILERS, CHILLERS, ETC		Х	
FURNISH VARIABLE SPEED DRIVES	X		
INSTALL VARIABLE SPEED DRIVES			Х
PROVIDE LINE AND LOAD WIRING TO VARIABLE SPEED DRIVES			Х
PROVIDE CONTROL WIRING TO VSD	X		
PROGRAM AND STARTUP VSD	X		
PROVIDE 120 VOLT POWER TO CONTROLS			Х
FURNISH CONTROL DAMPERS	X	Х	
INSTALL CONTROL DAMPERS		X	
FURNISH DAMPER ACTUATORS	X		
INSTALL DAMPER ACTUATORS	X		
WIRE LOW VOLTAGE ACTUATORS	X		
WIRE LINE VOLTAGE ACTUATORS			Х
PROGRAM AND COMMISSION BOILER SEQUENCER		X	
PROGRAM AND COMMISSION CHILLER SEQUENCER		X	
COORDINATE PROJECT SCHEDULE WITH ALL TRADES	X	X	Х
PROVIDE SHOP DRAWINGS TO ALL TRADES	X	X	
VERIFY AND TEST SEQUENCE OF OPERATIONS	X		
TERMINATE DUCT DETECTORS	X		
ROOF PENETRATIONS FOR TEMPERATURE CONTROLS		Х	
EXTERIOR WALL PENETRATIONS FOR TEMPERATURE CONTROLS	X		
PROVIDE DUCT DETECTORS			Х
PROVIDE 120 VOLT POWER TO SOLENOID VALVES			X
PROVIDE LOW VOLTAGE CABLING TO SOLENOID VALVES	X		
PROVIDE AND INSTALL REFRIGERANT MONITORING SYSTEM	X		

REMARKS

1. MECHANICAL CONTRACTOR/MANUFACTURER SHALL PROVIDE AND INSTALL ALL ASSOCIATED INTERLOCK WIRING AND DEVICES

FOR A COMPLETE UNIT.

 PACKAGED VSD'S INTERNAL TO HVAC EQUIPMENTED SHALL BE FURNISHED BY EQUIPMENT MANUFACTURER UNLESS NOTED OTHERWISE. REFER TO EQUIPMENT SCHEDULES FOR VSD'S TO BE FURNISHED BY EQUIPMENT MANUFACTURER.
 PACKAGED CONTROL DAMPERS INTEGRAL TO HVAC EQUIPMENT SHALL BE FURNISHED BY EQUIPMENT MANUFACTURER UNLESS NOTED OTHERWISE. REFER TO EQUIPMENT SCHEDULES AND DETAILS FOR MORE INFORMATION.

4. COORDINATE WITH GC FOR ROOF PENETRATIONS.

5. COORDINATE WITH MC FOR REFRIGERANT AND GAS PIPING SOLENOID VALVE LOCATIONS.

GENERAL MECHANICAL NOTES

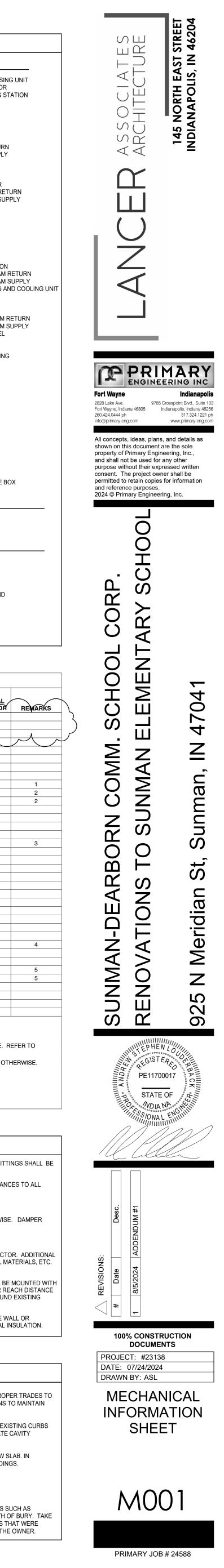
- 1. DUCT AND PIPING LAYOUTS ARE SCHEMATIC IN NATURE. ADDITIONAL TRANSITIONS, ELBOWS, OFFSETS, AND FITTINGS SHALL BE ADDED AS REQUIRED TO COORDINATE WITH OBSTRUCTIONS AND OTHER TRADES.
- 2. COORDINATE ALL WORK WITH OTHERS TRADES AND EXISTING WORK TO PERMIT ACCESS AND SERVICE CLEARANCES TO ALL
- SYSTEMS. COORDINATE DUCT WITH ELECTRICAL J-BOXES TO PREVENT OBSTRUCTIONS.

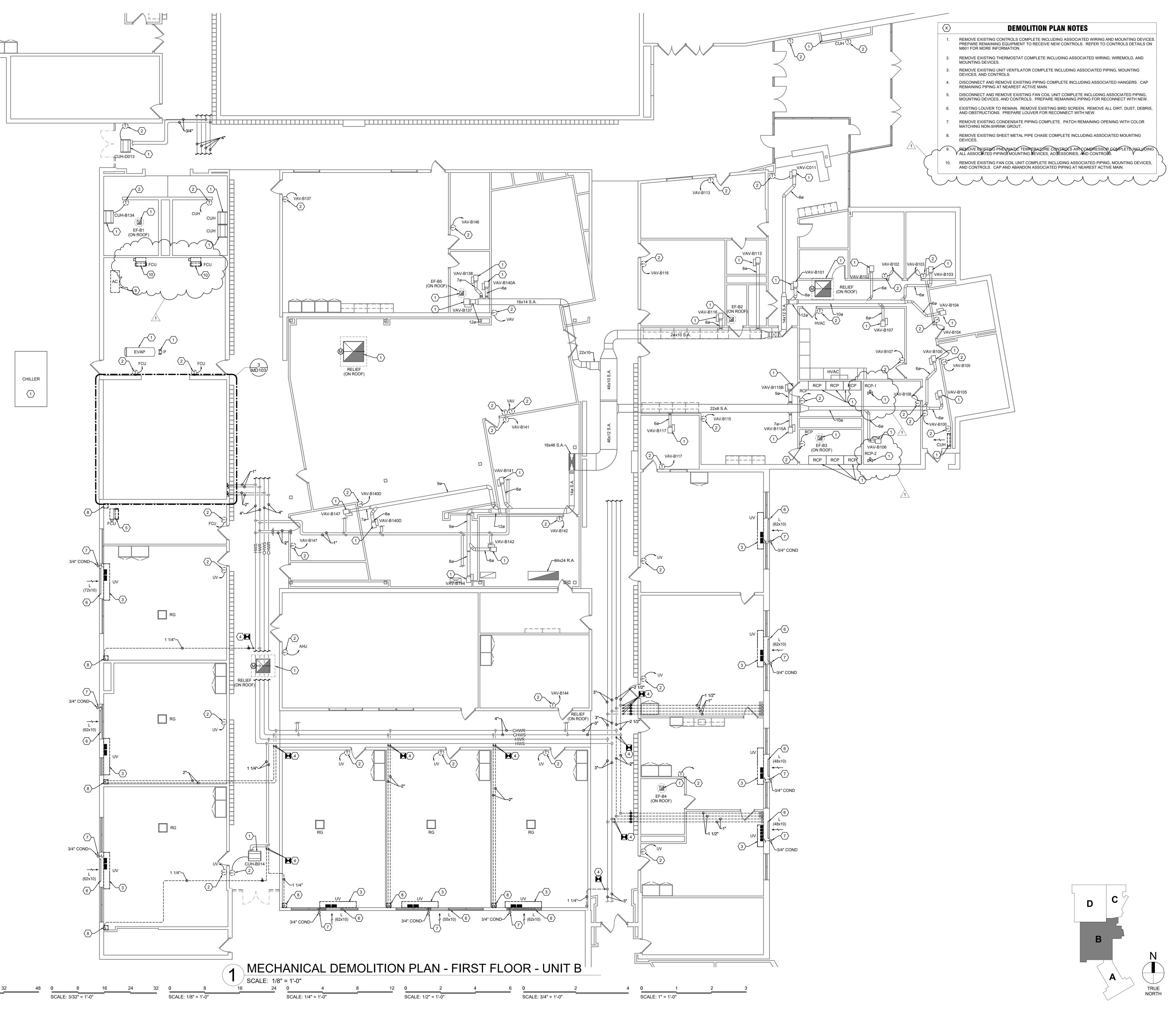
 3. DO NOT SCALE DRAWINGS FOR DIMENSIONS. REFER TO DIMENSIONED DRAWINGS.
- 4. ALL GRILLES, DIFFUSERS, AND REGISTERS SHALL HAVE A VOLUME CONTROL DAMPER UNLESS NOTED OTHERWISE. DAMPER SHALL BE IN AN ACCESSIBLE LOCATION.
- 5. REFER TO DETAIL SHEETS FOR ADDITIONAL INFORMATION ON INSTALLATION METHODS.
- 6. DEVIATIONS FROM BASIS OF DESIGN THAT AFFECT OTHER TRADES ARE THE RESPONSIBILITY OF THIS CONTRACTOR. ADDITIONAL COSTS TO PROVIDE LARGER ELECTRICAL CIRCUITS, MORE FLOOR SPACE, ADDITIONAL SUPPORTS, ADDITIONAL MATERIALS, ETC.
- SHALL BE BORNE BY THIS CONTRACTOR. COORDINATE WITH OTHER TRADES.
 ALL THERMOSTATS/HUMIDITY SENSORS WITH ADJUSTMENT BUTTONS/ SLIDERS/ KNOBS/ DISPLAYS, ETC. SHALL BE MOUNTED WITH THE TOP OF THE DEVICE NO MORE THAN 48' AFF, IN COMPLIANCE WITH LOCAL AND FEDERAL ADA WHEELCHAIR REACH DISTANCE GUIDELINES. PROVIDE ADDITIONAL SURFACE RACEWAY, BOXES, CONDUIT, ETC AS REQUIRED TO OFFSET AROUND EXISTING DUPENDOM TO OFFSET AROUND EXISTING
- DEVICES IN RENOVATION WORK.
 8. ALL DUCT SIZES LISTED ARE FOR INTERIOR FREE AREA. ANY DUCTS DESIGNATED OR SPECIFIED TO BE DOUBLE WALL OR INTERNALLY LINED SHALL HAVE OUTER DIMENSIONS ENLARGED TO ACCOMMODATE THE LINER OR INTERSTITIAL INSULATION.

GENERAL DEMOLITION NOTES

- ALL EXISTING PENETRATIONS FROM DUCT/ PIPE/ WIRE/ CONDUIT THAT IS REMOVED SHALL BE PATCHED BY PROPER TRADES TO MATCH SURROUNDINGS UNLESS PENETRATION IS TO BE REUSED. PATCH ALL FLOOR AND WALL PENETRATIONS TO MAINTAIN FIRE RATED CONSTRUCTION.
- 2. ALL ROOF PENETRATIONS NOT BEING REUSED SHALL BE PATCHED TO MAINTAIN EXISTING ROOF WARRANTY. EXISTING CURBS TO BE ABANDONED SHALL BE CAPPED WITH ALUMINUM HOOD PAINTED WITH "N.I.S." (NOT IN SERVICE). INSULATE CAVITY
- BELOW CAP WITH TIGHT FITTING 3" FOAM BOARD WRAPPED WITH SHEET METAL. 3. ALL PIPE SHALL BE REMOVED TO WITHIN AREAS THAT ARE INACCESSIBLE SUCH AS WALL CAVITIES AND BELOW SLAB. IN
- FINISHED SPACES REMOVE BELOW SURFACE, CAP WATER TIGHT, AND PATCH SURFACE TO MATCH SURROUNDINGS.ALL PATCHING OF WALLS SHALL MATCH MATERIALS AND WHEN COMPLETE SHALL NOT LOOK LIKE A PATCH.
- 5. TOOTH-IN NEW BRICK/ BLOCK WITH FULL UNITS, DO NOT CUT FILLER PIECES.

6. PRIOR TO CUTTING EXISTING SLAB ON GRADE, CONTRACTOR SHALL VERIFY EXISTENCE OF EXISTING UTILITIES SUCH AS PIPING, CONDUIT, WIRE, ETC. BY MEANS OF GROUND PENETRATING RADAR TO LOCATE AND DETERMINE DEPTH OF BURY. TAKE PRECAUTIONS TO DE-ENERGIZE POWER TO CIRCUITS AND CAREFULLY CUT AND REMOVE SLAB. ANY UTILITIES THAT WERE LOCATED AND SUBSEQUENTLY DAMAGED SHALL BE REPAIRED BY THE CONTRACTOR AT NO ADDED COST TO THE OWNER.





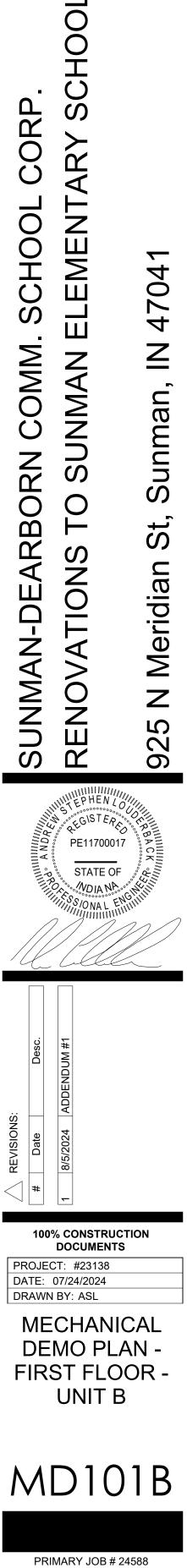


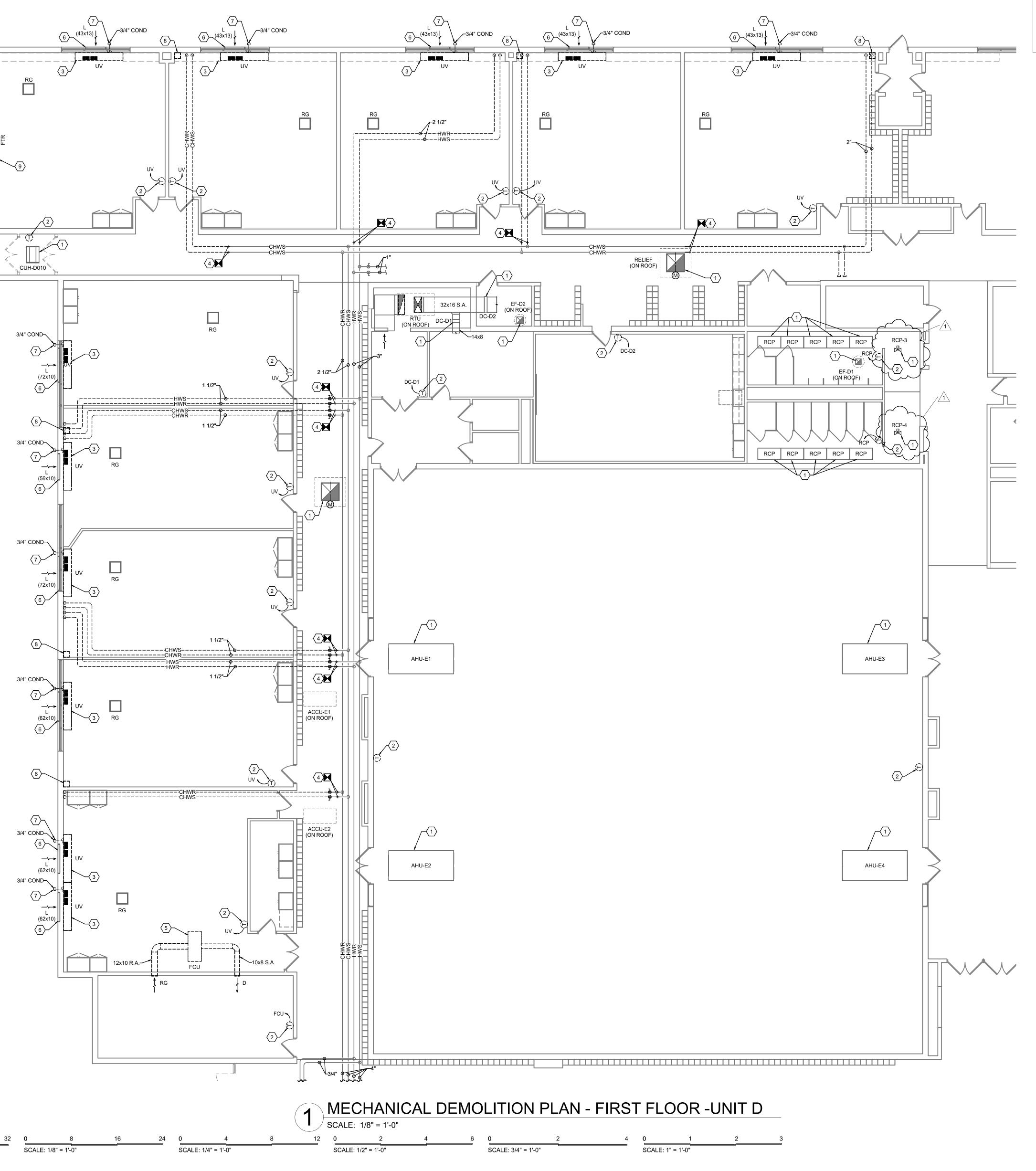
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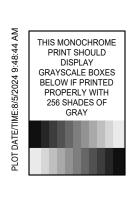


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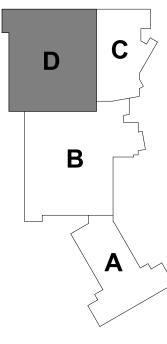




DEMOLITION PLAN NOTES

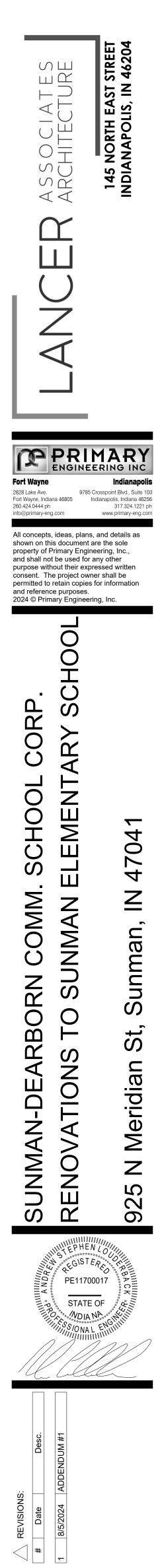
1.	REMOVE EXISTING CONTROLS COMPLETE INCLUDING ASSOCIATED WIRING AND MOUNTING DEVICES. PREPARE REMAINING EQUIPMENT TO RECEIVE NEW CONTROLS. REFER TO CONTROLS DETAILS ON M601 FOR MORE INFORMATION.
2.	REMOVE EXISTING THERMOSTAT COMPLETE INCLUDING ASSOCIATED WIRING, WIREMOLD, AND MOUNTING DEVICES.
3.	REMOVE EXISTING UNIT VENTILATOR COMPLETE INCLUDING ASSOCIATED PIPING, MOUNTING DEVICES, AND CONTROLS.
4.	DISCONNECT AND REMOVE EXISTING PIPING COMPLETE INCLUDING ASSOCIATED HANGERS. CAP REMAINING PIPING AT NEAREST ACTIVE MAIN.
5.	REMOVE EXISTING FAN COIL UNIT COMPLETE INCLUDING ASSOCIATED PIPING, DUCTWORK, GRILLES, MOUNTING DEVICES, AND CONTROLS.
6.	EXISTING LOUVER TO REMAIN. REMOVE EXISTING BIRD SCREEN. REMOVE ALL DIRT, DUST, DEBRIS, AND OBSTRUCTIONS. PREPARE LOUVER FOR RECONNECT WITH NEW.
7.	REMOVE EXISTING CONDENSATE PIPING COMPLETE. PATCH REMAINING OPENING WITH COLOR MATCHING NON-SHRINK GROUT.
8.	REMOVE EXISTING SHEET METAL PIPE CHASE COMPLETE INCLUDING ASSOCIATED MOUNTING DEVICES.
9.	REMOVE EXISTING FINNED TUBE RADIATION COMPLETE INCLUDING ASSOCIATED PIPING, MOUNTING

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REMOLD, AND MOUNTING HANGERS. CAP ICTWORK, GRILLES, RT, DUST, DEBRIS,

PIPING, MOUNTING DEVICES, AND CONTROLS. CAP AND ABANDON REMAINING PIPING AT FLOOR PENETRATION.



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