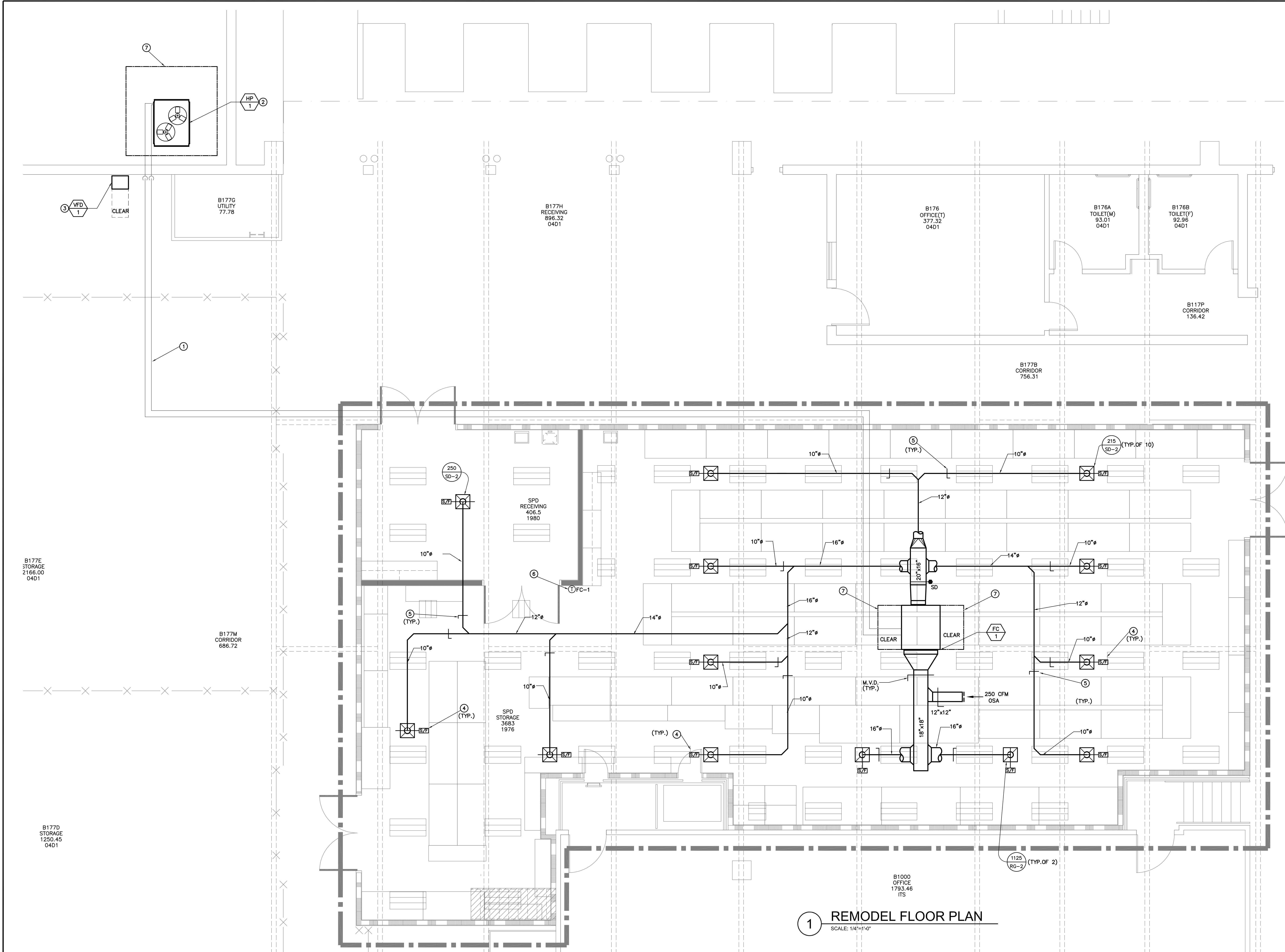


A
B
C
D
E
F

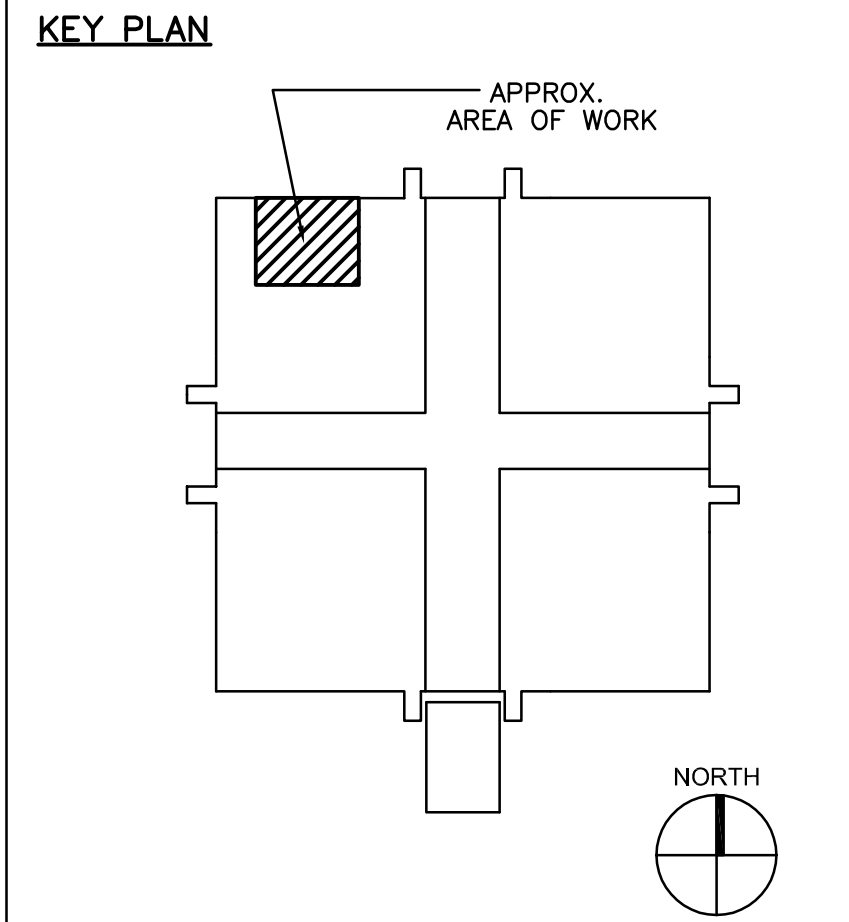
three inches = one foot
one and one half inches = one foot
one inch = one foot
three quarters inch = one foot
one half inch = one foot
three eighths inch = one foot
one quarter inch = one foot
one eighth inch = one foot




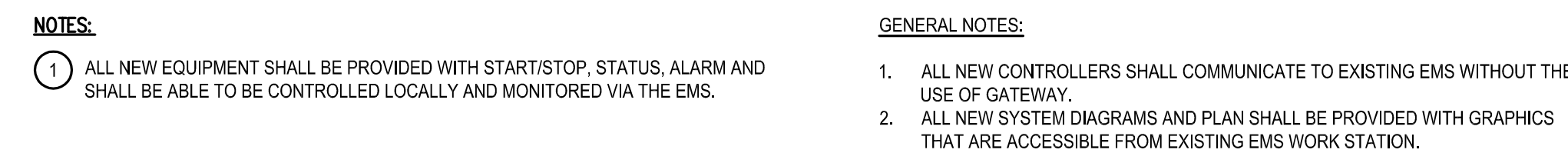
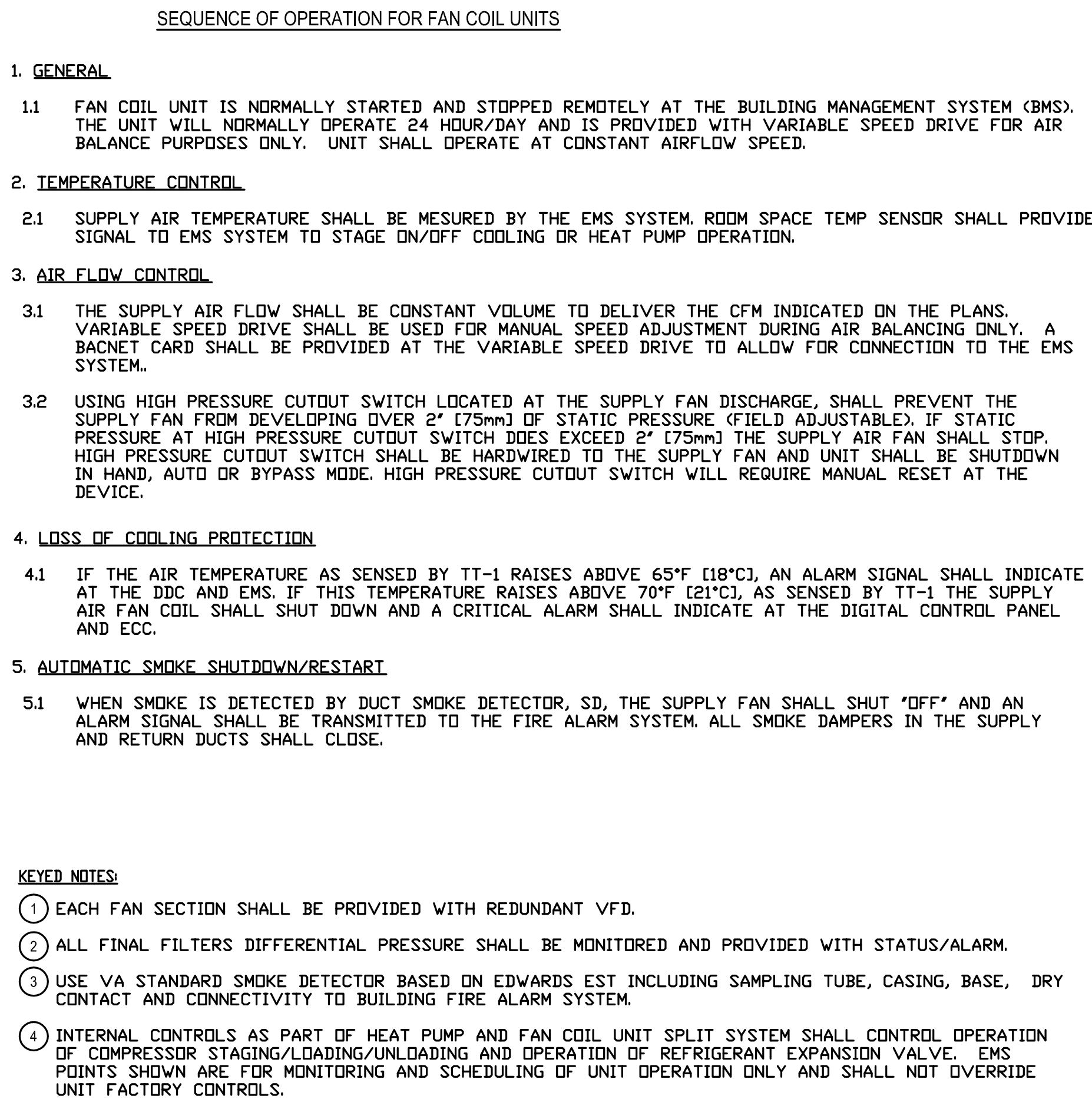
1 REMODEL FLOOR PLAN
SCALE: 1/4"=1'-0"







































- CONSTRUCTION KEY NOTES:**
- 1-1/8" SUCTION AND 1/2" LIQUID REFRIGERANT LINES. PROVIDE ACR COPPER PIPING. INSULATE BOTH LINES WITH 1" THICK MINERAL FIBER INSULATION AND ALUMINUM JACKET AND FITTING COVERS. FIELD VERIFY EXACT ROUTING. INSTALL PER MANUFACTURER'S INSTALLATION INSTRUCTIONS. PROVIDE ALL NECESSARY REFRIGERANT, VALVES, OFFSETS, FITTINGS, ACCESSORIES, RECEIVERS, AND ASSOCIATED COMPONENTS. PROVIDE ALL NECESSARY PIPE HANGERS, ALL-THREAD RODS AND CONNECTION TO STRUCTURE ABOVE. PATCH/REPAIR EXISTING FIREPROOFING AT BEAMS OR UNDERSIDE OF STRUCTURE AS REQUIRED. ASBESTOS MAY BE PRESENT. COORDINATE ALL ABATEMENT WITH THE OWNER PRIOR TO WORK. WEAR PROTECTIVE CLOTHING AND RESPIRATORS IN ACCORDANCE WITH CURRENT CODES, LAWS, AND REGULATIONS.
 - PROVIDE 18" THICK CONCRETE PAD IN LANDSCAPE AREA NEAR LOADING DOCK AS SHOWN. PAD SHALL EXTEND A MINIMUM OF 6" ABOVE GRADE AND A MINIMUM OF 12" BELOW GRADE. PROVIDE #8 REBAR AT 12" O.C. EACH DIRECTION. EXTEND PAD 12" BEYOND THE PERIMETER OF THE UNIT ON ALL SIDES. ANCHOR UNIT TO CONCRETE PAD USING (4) 1/2" HILTI TZ ANCHOR BOLTS (ICC ESR-1917) MINIMUM OF 3" EMBEDMENT. (1) ANCHOR EACH CORNER.
 - SECURE VFD TO EXISTING WALL. PROVIDE ANCHORS AND UNISTRUT AS REQUIRED. FIELD MAINTAIN 36" CLEAR IN FRONT OF VFD. FIELD VERIFY EXACT LOCATION. VFD SHALL BE USED TO ASSIST IN AIR BALANCE OF FC-1. FC-1 SHALL OPERATE AT CONSTANT VOLUME AND SPEED ONCE THE AIR BALANCE EFFORTS HAVE BEEN COMPLETED. CONNECT VFD TO EMS.
 - PROVIDE GREENHECK MODEL CSFD-211 CEILING MOUNTED FIRE SMOKE DAMPER AT 1-HOUR CEILING. CSFM LISTING #3230-0981:105. PROVIDE DUCT TRANSITIONS AND FITTINGS AS REQUIRED TO CONNECT DUCTWORK TO CEILING MOUNTED DAMPER. (TYP.)
 - PROVIDE LOCKING QUADRANT MANUAL VOLUME DAMPER AT EACH DUCT BRANCH SERVING A DIFFUSER TO ALLOW FOR AIR BALANCING OF THE SYSTEM. (TYP.)
 - WALL MOUNTED TEMPERATURE SENSOR TO CONTROL FAN COIL FC-1. CONNECT TO EXISTING BUILDING EMS SYSTEM (JOHNSON CONTROLS). FIELD VERIFY EXACT REQUIREMENTS. PROVIDE ALL NECESSARY CONTROLLERS, SENSORS, WIRING CONDUIT, PROGRAMMING AND GRAPHICS AS REQUIRED TO MAINTAIN SPACE TEMPERATURES AND SYSTEM OPERATION. REFER TO CONTROLS DIAGRAMS FOR ADDITIONAL INFORMATION.
 - PROVIDE CLEARANCE PER MANUFACTURER'S GUIDELINES.

- MECHANICAL BID ALTERNATE**
- REFER TO ARCHITECTURAL DRAWINGS FOR NON RATED ACOUSTICAL CEILING BID ALTERNATE REQUIREMENTS.
 - PROVIDE ALTERNATE BID PRICING TO INCLUDE THE FOLLOWING:
 - REVISE SURFACE MOUNTED CEILING DIFFUSERS TO LAY-IN T-BAR STYLE TO MATCH CEILING GRID.
 - REMOVE SMOKE/FIRE DAMPERS FROM EACH DIFFUSER/GRILLE/REGISTER
 - REMOVE RIGID DUCT CONNECTION AND PROVIDE FLEXIBLE DUCT CONNECTION BETWEEN DUCT BRANCH AND DIFFUSER NECK (LIMITED TO 7'-0" LENGTH PER CMC)
 - ALL OTHER SCOPE OF WORK SHOWN ON THE PLANS SHALL REMAIN AS INDICATED.



Number		Revisions		Date		CONTRACTOR:				ARCHITECT/ENGINEERS:		Drawing Title		Project Title		Project Number		Office of Construction and Facilities Management  Department of Veterans Affairs	
										MECHANICAL REMODEL FLOOR PLAN BASEMENT NORTH LEVEL		BN REMODEL - LOGISTICS SWING SPACE VA SAN DIEGO, BUILDING 1		664-13-304					
										Approved Project Director		Location		Building Number					
												SAN DIEGO, CA		1					
												Date		Checked		Drawn			
												12.15.2013		BM		SS		ME-102	
																		Dwg. X of XX	



	ANALOG INPUT		AIR FLOW MONITORING DEVICE
	ANALOG OUTPUT		DAMPER/VALVE ACTUATOR
	DIGITAL INPUT		ROOM THERMOSTAT/TRANSMITTER - WALL MOUNT
	DIGITAL OUTPUT		ROOM HUMIDISTAT (MOISTURE)/TRANSMITTER - WALL MOUNT
	PRESSURE SWITCH HIGH		TEMPERATURE TRANSMITTER
	PRESSURE SWITCH LOW		TEMPERATURE TRANSMITTER, AVERAGING ELEMENT
	HVAC CONTROL PANEL		MOISTURE (HUMIDITY) TRANSMITTER
	VARIABLE SPEED MOTOR CONTROLLER		PRESSURE TRANSMITTER
	INTEGRATE CONTROL POINT ON REMOTE GRAPHICS WORKSTATION AT ENERGY CONTROL CENTER		STATIC PRESSURE SENSOR
	TEMPERATURE CONTROLLER. SEE SEQUENCE OF OPERATION		FLOW TRANSMITTER
	PRESSURE CONTROLLER. SEE SEQUENCE OF OPERATION		CURRENT TRANSMITTER
	SPEED CONTROLLER. SEE SEQUENCE OF OPERATION		SMOKE DETECTOR
	FLOW CONTROLLER. SEE SEQUENCE OF OPERATION		PRESSURE DIFFERENTIAL TRANSMITTER
	FLOW ELEMENT		PRESSURE DIFFERENTIAL SWITCH
	FLOW SWITCH HIGH		HAND SWITCH (HAND-OFF-AUTO SWITCH)
	FLOW SWITCH LOW		VALVE OR DAMPER POSITION CONTROLLER
	TIME CLOCK CONTROLLING EQUIPMENT ON A SCHEDULE		LOCAL RECORDING TIME CLOCK (RUNTIME)
	DRY CONTACT/RELAY FOR GENERAL ALARM		TEMPERATURE SWITCH, LOW (FREEZE/STAT)
			TEMPERATURE SWITCH, HIGH (FREEZE/STAT)
			TEMPERATURE ELEMENT

NOTE: NOT ALL SYMBOLS MAY BE USED THIS SHEET

[illegible]

Number	Revisions	Date	CONTRACTOR:		ARCHITECT/ENGINEERS:	Drawing Title	Project Title	Project Number	Office of Construction and Facilities Management		
						MECHANICAL CONTROLS	BN REMODEL - LOGISTICS SWING SPACE VA SAN DIEGO, BUILDING 1	664-13-304		Department of Veterans Affairs	
						Approved Project Director	Location SAN DIEGO, CA	Building Number 1			Drawing Number
						Date 12.15.2013	Checked BM	Drawn SS			ME-501 Dwg. X of XX