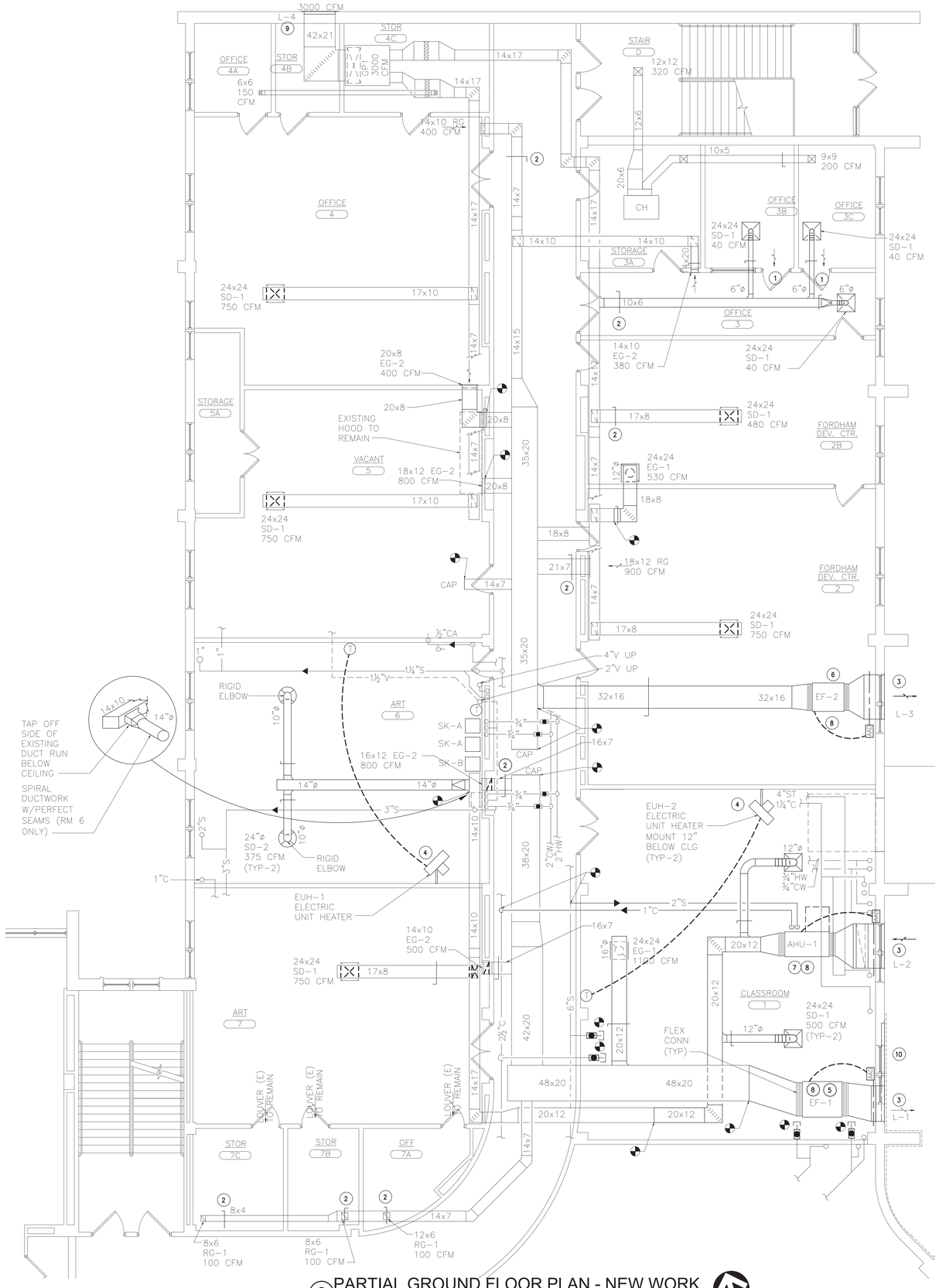
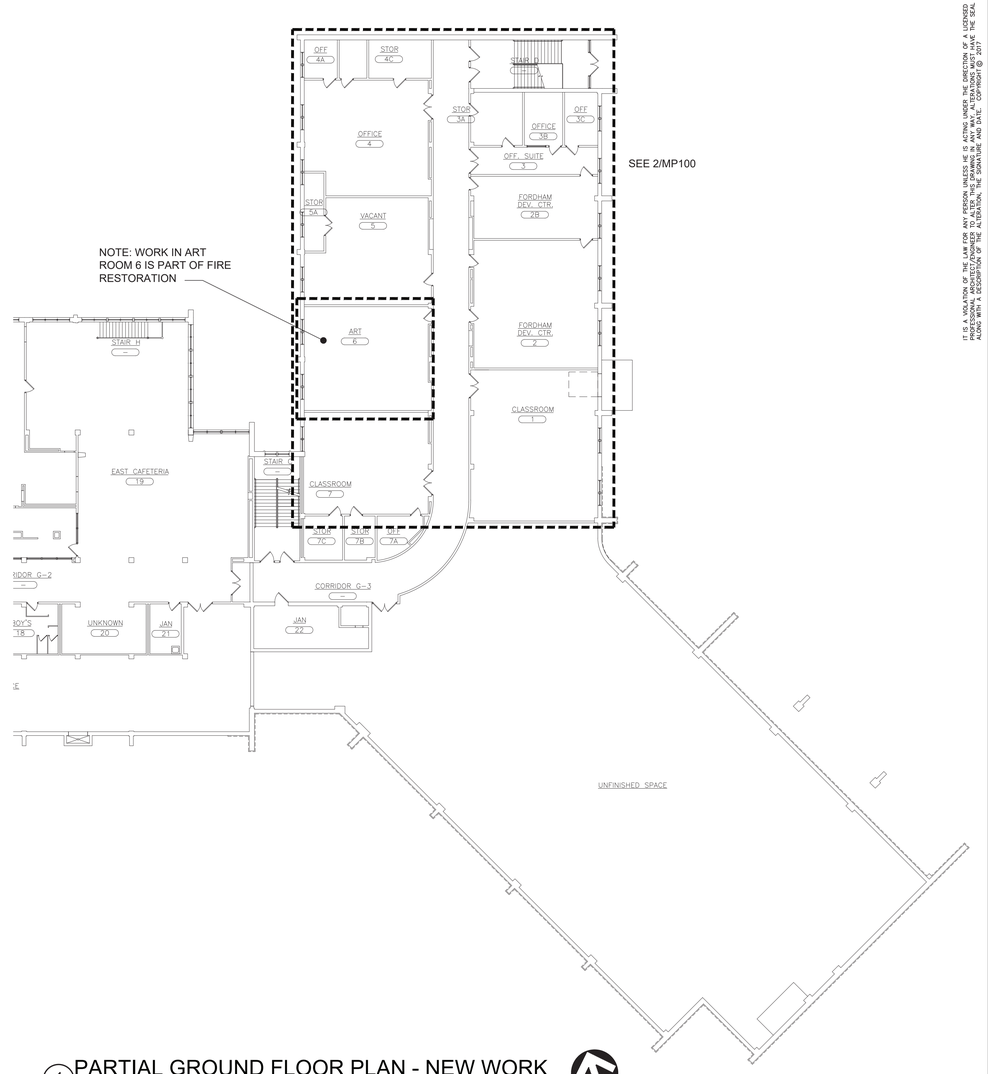


2 PARTIAL GROUND FLOOR PLAN - NEW WORK

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

0 2' 4' 8' 16' 32'



1 PARTIAL GROUND FLOOR PLAN - NEW WORK

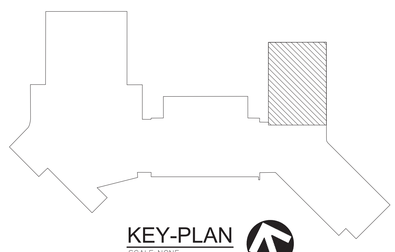
SCALE: 1/16" = 1'-0"

0 2' 4' 8' 16' 32'

KEYED NOTES – NEW WORK:

1. PROVIDE ANEMOSTAT DOOR LOUVER 12x12 MODEL AFDL 6" AFF, COLOR BEIGE
2. PROVIDE VOLUME DAMPERS AS SHOWN. REBALANCE AS REQUIRED
3. PROVIDE RUSKIN MODEL ELF375XH, 60x36(AHU-1) 60x36(EF-2) 11'-0x3-0"(EF-1) PROVIDE LOUVER IN UPPER WINDOWS. BLANK OFF UNUSED PORTION AND PAINT TO MATCH ADJACENT SURFACE. SEAL PERIMETER OF LOUVER WATERTIGHT. CONTRACTOR TO REMOVE MULLIONS AS NECESSARY FOR INSTALLATION OF NEW. GLAZING DOES NOT CONTAIN PCB'S OR ASBESTOS. THE EXISTING CAULK AROUND PERIMETER OF FRAME CONTAINS PCB'S. DO NOT DISTURB CAULK.
4. PROVIDE ELECTRIC UNIT HEATER QMARK MODEL MUH05-81 WITH THERMOSTAT. PROVIDE ALL SUPPORTS AS REQUIRED. MOUNT 12" BELOW CEILING. (WIRING BY EC)
5. PROVIDE GREENHECK EXHAUST FAN MODEL BCF-212, 994 RPM, 1.25 STATIC PRESSURE. PROVIDE ALL SUPPORTS, VIBRATION ISOLATORS AND ALL APPURTENANCES. MOUNT HIGH AS POSSIBLE FROM STRUCTURE ABOVE. (WIRING BY EC)
6. PROVIDE GREENHECK EXHAUST FAN MODEL BCF-212, 1045 RPM, 1.25 STATIC PRESSURE. PROVIDE ALL SUPPORTS, VIBRATION ISOLATORS AND ALL APPURTENANCES. MOUNT HIGH AS POSSIBLE FROM STRUCTURE ABOVE. (WIRING BY EC)
7. PROVIDE DAIKIN MODEL LAH007A AND ALL APPURTENANCES.
8. BALANCE ALL NEW EQUIPMENT, DIFFUSERS AND RETURN GRILLES TO CFM'S SHOWN
9. PROVIDE NEW LOUVER RUSKIN ELF375XH CUSTOM SIZE 42"x 20⅝". SEAL AROUND LOUVER WATERTIGHT. CONTRACTOR TO FIELD VERIFY EXACT SIZE BEFORE ORDERING.
10. LOUVER L-1 REQUIRES 48x36 FREE AREA. BLANK OFF UNUSED PORTION WITH 4" RIGID INSULATED PANEL AND WITH 22 GAUGE SHEET METAL INTERIOR PANEL. PAINT INTERIOR METAL PANEL TO MATCH ADJACENT SURFACES

NOTE: MECHANICAL CONTRACTOR IS RESPONSIBLE FOR REMOVING CEILINGS AND WALLS FOR THEIR PORTION OF WORK AND TO REINSTALL CEILINGS AND WALLS TO ORIGINAL CONDITIONS.



KEY-PLAN

SCALE: NONE

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S.E.D.# 66-23-0001-0041-011

E&R PROJECT NO.	Y21CH01
YPS NO.	10929

REVISION	DATE	BY
ISSUED FOR BID		
DRAWN BY	JMJ	
CHECKED BY	JIE	
SHEET SIZE	ARCH E1 30" x 42"	
SCALE	AS NOTED	

SHEET TITLE

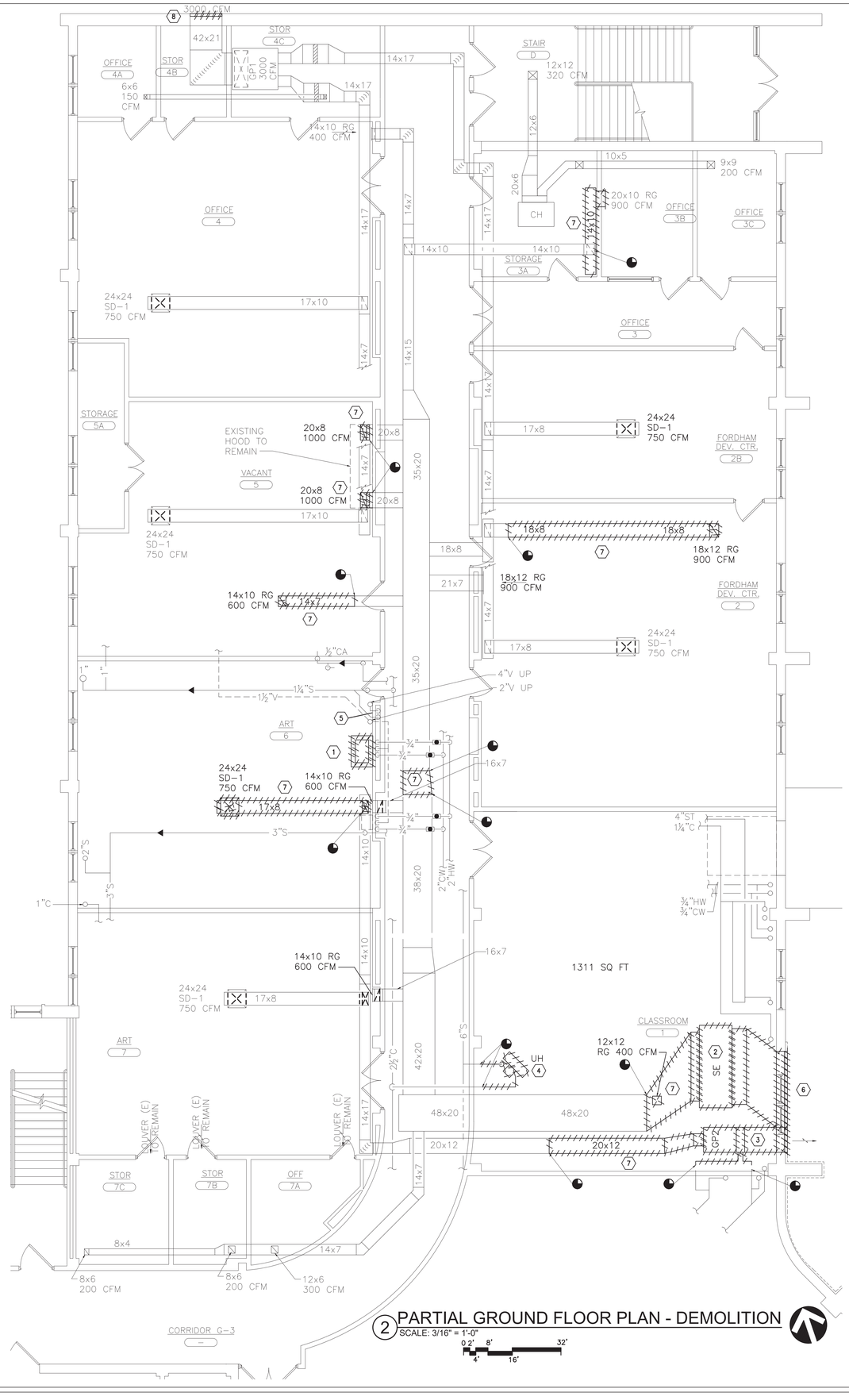
PARTIAL GROUND FLOOR PLANS - NEW WORK

SHEET NO.

CHA MP-100

1_27_2022

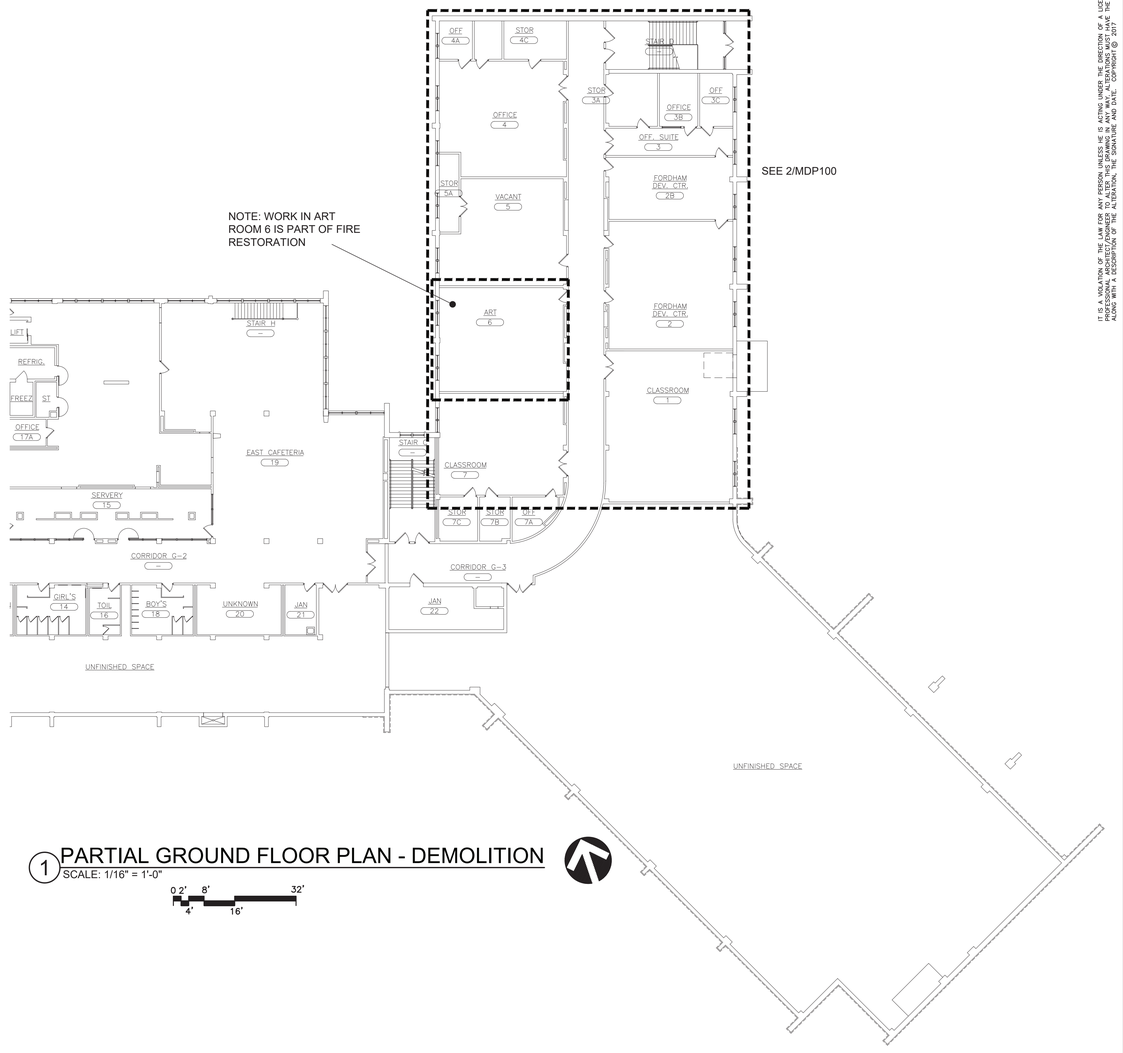
FILE PATH - N:\1 - PROJECT DIRECTORIES\Yonkers Public Schools\Cross Hill Academy (Formerly Emerson)\Y21CH01 - Cross Hill Academy Fire CIP # 10929\Local\2021-09-14 ER\Y21ch01.m100.dwg



2 PARTIAL GROUND FLOOR PLAN - DEMOLITION

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

0 2' 4' 8' 16' 32'



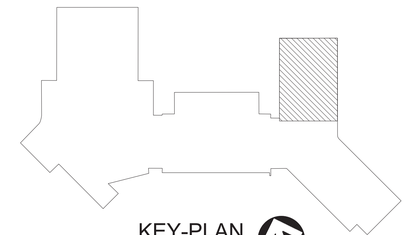
1 PARTIAL GROUND FLOOR PLAN - DEMOLITION

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

0 2' 4' 8' 16' 32'

KEYED NOTES – DEMOLITION

1. REMOVE SINK(S) IN THEIR ENTIRETY. PREPARE FOR NEW WORK.
2. REMOVE EXHAUST FAN AS SHOWN. PREPARE FOR NEW WORK.
3. REMOVE HEATING UNIT AS SHOWN. PREPARE FOR NEW WORK.
4. REMOVE UNIT HEATER AS SHOWN. PREPARE FOR NEW WORK.
5. REMOVE THERMOSTAT. PREPARE FOR NEW WORK.
6. REMOVE 11'-0"x36"LOUVER. CAULK CONTAINS PCB'S. PREPARE FOR NEW WORK
7. REMOVE DUCTWORK AND AIR TERMINAL DEVICES AS SHOWN. PREPARE FOR NEW WORK
8. REMOVE LOUVER. PREPARE FOR NEW WORK



KEY-PLAN

SCALE: NONE

1_27_2022

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S.E.D.# 66-23-0001-0041-011

E&R PROJECT NO.	Y21CH01
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REVISION	DATE	BY
ISSUED FOR BID		

DRAWN BY	JMJ
CHECKED BY	JIE
SHEET SIZE	ARCH E1 30" x 42"
SCALE	AS NOTED

SHEET TITLE
PARTIAL GROUND FLOOR PLANS - DEMOLITION

SHEET NO.
CHA MPD-100

FILE PATH – N:\1 – PROJECT DIRECTORIES\Yonkers Public Schools\Cross Hill Academy (Formerly Emerson)\Y21CH01 – Cross Hill Academy Fire CIP # 10929\Icad\2021-09-14 ER\y21ch01m100.dwg

COORDINATION NOTE:

1. COORDINATION– IT SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL AND MECHANICAL CONTRACTORS TO COORIDNATE THEIR WORK. THE HVAC CONTRACTOR SHALL TAKE THE LEAD IN THE COORDINATION EFFORT AND PRODUCE THE COORDINATION DRAWINGS. COORDINATION DRAWINGS SHALL BE SUBMITTED FOR APPROVAL TO THE ENGINEER PRIOR TO STARTING ANY WORK. CEILING SPACE IS VERY LIMITED AND DUCTWORK/PIPING INSTALLATION AND LOCATION IS CRITIAL. THE PURPOSE OF THESE DRAWINGS IS TO COORDINATE THE LOCATIONS OF ALL PIPING, DUCTWORK, AND ASSOCIATED ELECTRICAL EQUIPMENT. ALL ELECTRICAL EQUIPMENT SHALL BE INSTALLED AND LOCATED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE (NEC). MECHANICAL EQUIPMENT CANNOT INFILTRATE THE ELECTRICAL EQUIPMENTS WORKING CLEARANCE AND WORKING SPACE, NOR CAN IT BE INSTALLED DIRECTLY ABOVE OR BELOW TO THE STRUCTURE, AS IDENTIFIED WITHIN THE NEC, ARTICLE 110 – "REQUIREMENTS FOR ELECTRICAL INSTALLATION". THIS COORDINATION IS REQUIRED FOR ALL PHASES OF THIS PROJECT. FAILURE TO FOLLOW THIS PROCEDURE DOES NOT RELIEVE THE CONTRACTOR FROM THE DUTIES AND WILL NOT CONSTITUTE A REASON FOR A CHANGE ORDER.

INSULATION SCHEDULE

TYPE	EQUIPMENT OR SYSTEM SERVED	INSULATION CLASS (a)			JACKETING CLASS (b)			THICKNESS (IN)					
								NOMINAL PIPE SIZE (IN)					DUCTWORK
		INTERIOR CONCEALED	INTERIOR EXPOSED	EXTERIOR	INTERIOR GENERAL	EQUIPMENT ROOMS	EXTERIOR	<1"	1"–<1½"	1½"– <4"	4 "– <8"	≥8" & UP	(c)
A	DCW, COOLING COIL CONDENSATE	FE	– –	– –	0	– –	– –	0.5	0.5	1.0	1.0	1.0	
		– –	FE	– –	– –	4	– –	0.5	0.5	1.0	1.0	1.0	
B	HWS, HWR	FG	– –	– –	1	– –	– –	1.5	1.5	2	2	2	
		– –	FG	– –	1	1	– –	1.5	1.5	2	2	2	
		– –	– –	UR	– –	– –	6	1.5	1.5	2	2	2	
C	DUCTWORK	FG (d)	– –	– –	2	– –	– –	– –		– –	– –	– –	1.5(g)(J)
		– –	FG (e)	– –	2	2	– –	– –		– –	– –	– –	2 (f)(g)(J)
		– –	– –	UR(e)	– –	– –	3	– –		– –	– –	– –	2 (i)(J)
D	LPS,LPC	FG	– –	– –	1	– –	– –	1.5	1.5	3	3	3	
		– –	FG	– –	1	1	– –	1.5	1.5	3	3	3	
			– –	UR	– –	– –	6	1.5	1.5	3	3	3	

(a) FG – – FIBROUS GLASS
FE – – FLEXIBLE ELASTOMERIC
UR – – URETHANE
CS – – CALCIUM SILICATE
FR – – FIRE RATED

(b) 0 – – NONE
1 – – ALL SERVICE
2 – – ALUMINUM FOIL
3 – – CANVAS
4 – – POLYVINYL CHLORIDE
5 – – STAINLESS STEEL
6 – – ALUMINUM
7 – – EPDM

(c) SUPPLY AIR
OUTSIDE AIR
MIXED AIR
RETURN AIR

(d) BLANKET

(e) 1" RIGID BOARD

(f) EXCEPT SUPPLY AIR WITHIN CONDITIONED SPACE

(g) INSULATE EXHAUST AIR 15'–0" FROM EXTERIOR PENETRATION

(i) TWO LAYERS, 3 IN TOTAL

(j) INSULATION BELOW 8'–0" TO HAVE PVC WRAP

ALL INSULATION TO COMPLY WITH 2015 NYS ENERGY CONSERVATION CONSTRUCTION CODE

AIR HANDLING UNIT SCHEDULE

QTY	MARK	SERVICE	MODEL	NOMINAL CAPACITY	TYPE	VOLTS/HERTZ/PHASE/HP	FLA	ASSOCIATED EQUIPMENT	NOTES
1	AHU–1	BASEMENT ROOMS	DAIKIN	1500 CFM	STEAM	208V/60/3/2.0	7.8	LAH007A	1,2,3,4,5

NOTE 1: SECURELY HANG FROM STRUCTURE ABOVE USING STEEL THREADED RODS AND SUPPORT FRAMING W/ VIBRATION ISOLATORS. MUST INSTALL UNIT TO ALLOW FOR MAINTENANCE CLEARANCES AND FILTER CHANGES.
NOTE 2: PROVIDE SUPPLY AIR DUCT SMOKE DETECTOR AND TIE INTO UNIT POWER FEED AND AIR INTAKE DAMPERS. CONNECT TO EXISTING BMS
NOTE 3: TOTAL STATIC .92IN. AIR TEMPERATURE ENTERING DB 35 DEGREES, LEAVING DB 114.4 DEGREES, STEAM PRESSURE 5 PSI, CONDENSATE 135.5 LB/H
NOTE 4: PROVIDE MERV 14 FILTER
NOTE 5: PROVIDE (2) 24"x24"x4" THICK FILTERS

FIXTURE AND EQUIPMENT CONNECTION SCHEDULE

DESIGNATION	DESCRIPTION	COLD WATER	HOT WATER	WASTE OR SANITARY	VENT	CARRIERS & ACCESSORIES	NOTES
SK–A	SINK	1/2"	1/2"	1 1/2"	2"	YES	NOTE 1
SK–B	SINK(HANDICAPPED)	1/2"	1/2	1 1/2"	2"	YES	NOTE 1

NOTE:
1. PROVIDE ELKAY SINK LRAD 2022 WITH FAUCET ELKAY LK4101, WATER SUPPLIES MCGUIRE 2167–LK–F AND TRAP MCGUIRE 8912–F ADA COMPLIANT. PROVIDE SOLID INTERCEPTOR MIFAB MI–SOLIDS–S WITH ALL APPURTENANCES.
2. ALL PLUMBING FIXTURES TO BE PROVIDED WITH ¼ TURN SHUT–OFF VALVES AS SPECIFIED

LOUVER SCHEDULE

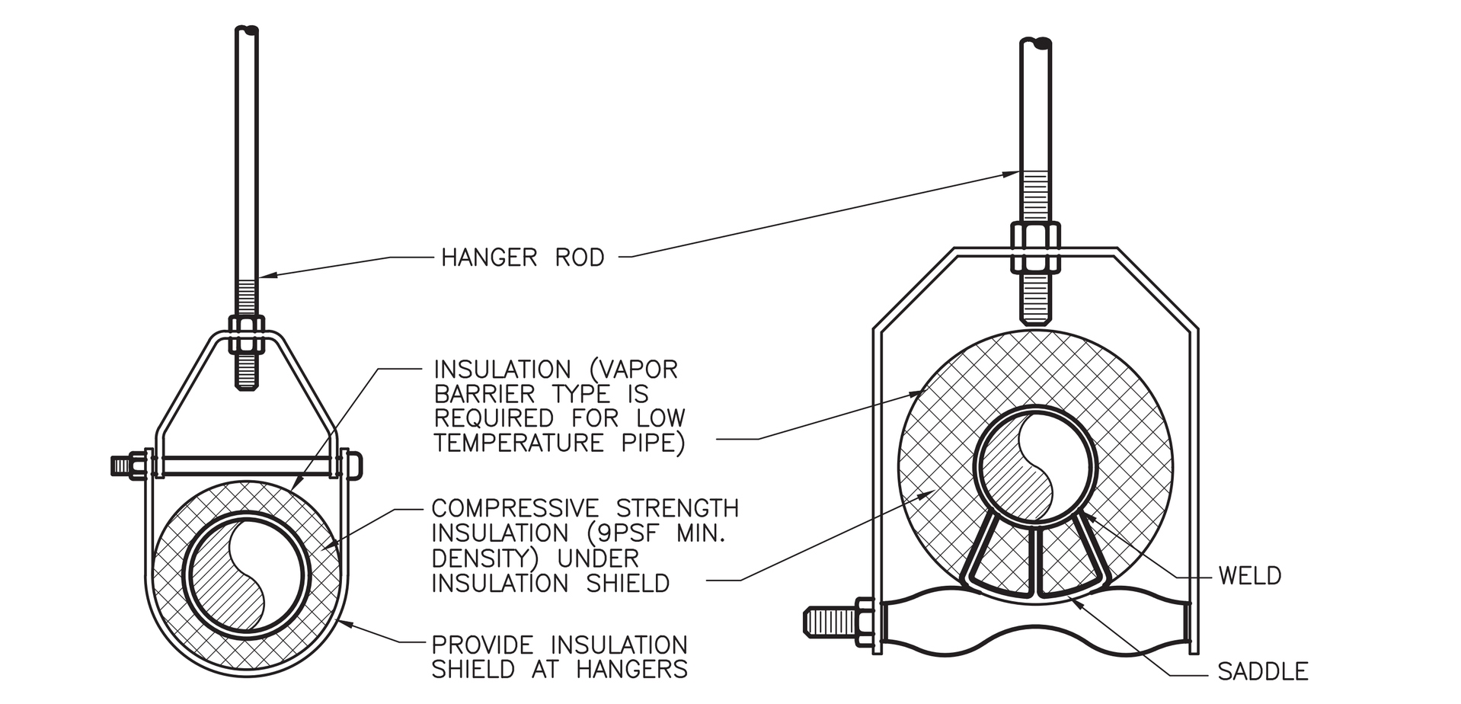
UNIT NO.	LOCATION	SERVICE	CFM	LOUVER	APPROXIMATE SIZE			MAX PD IN W.G.	BIRD SCREEN	DESIGN EQUIPMENT
					LENGTH	DEPTH	HEIGHT			
L–1	ROOM 1	EXHAUST	SEE PLAN	ALUMINUM LOUVER	132	4	36	.05	YES	RUSKIN ELF375XH
L–2	ROOM 1	AIR INTAKE	SEE PLAN	ALUMINUM LOUVER	36	4	36	.05	YES	RUSKIN ELF375XH
L–3	ROOM 2	EXHAUST	SEE PLAN	ALUMINUM LOUVER	60	4	36	.05	YES	RUSKIN ELF375XH
L–4	STOR. 4B	AIR INTAKE	SEE PLAN	ALUMINUM LOUVER	42	4	20.625	.05	YES	RUSKIN ELF375XH

NOTE: PROVIDE FACTORY PAINTED FINISH (COLOR BY OWNER)
ALL LOUVERS TO HAVE ALUMINUM BIRD SCREENS

REGISTER, GRILLE AND DIFFUSER SCHEDULE

TYPE	APPLICATION	MATERIAL	FINISH	DESIGN EQUIPMENT	NOTES
SD–1	SUPPLY	STEEL	WHITE	TITUS MODEL TMS	1,2,3
SD–2	SUPPLY	STEEL	WHITE	TITUS MODEL R–OMNI	1,3
EG–1	EXHAUST	STEEL	WHITE	TITUS MODEL 350 RL	1,2,3
EG–2	EXHAUST	STEEL	WHITE	TITUS MODEL 350–ZRL	3

NOTE 1: PROVIDE APPROPRIATE SIZED NECK TO CONNECT TO NEW OR EXISTING DUCT. SEAL AND MAKE CONNECTIONS AIR TIGHT.
NOTE 2: PROVIDE GRILLE OR DIFFUSER TO FIT IN A FULL 2X2 CEILING TILE IN ALL DROP CEILING.
NOTE 3: PROVIDE VOLUME DAMPERS FOR AIR BALANCING.

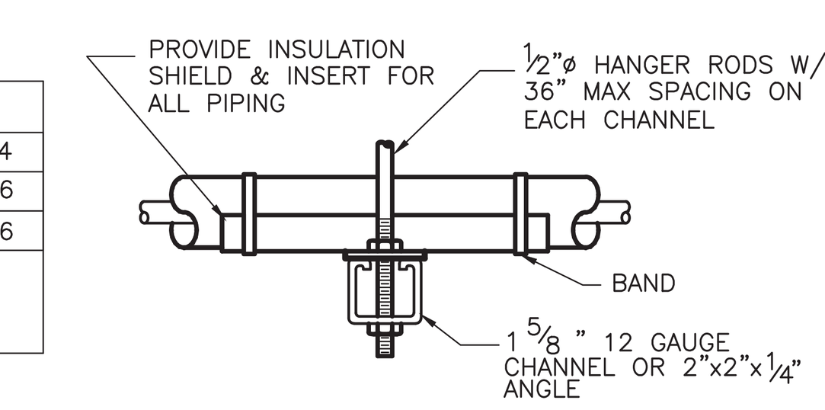


ADJUSTABLE CLEVIS HANGER

ADJUSTABLE CLEVIS HANGER W/ ROLLER

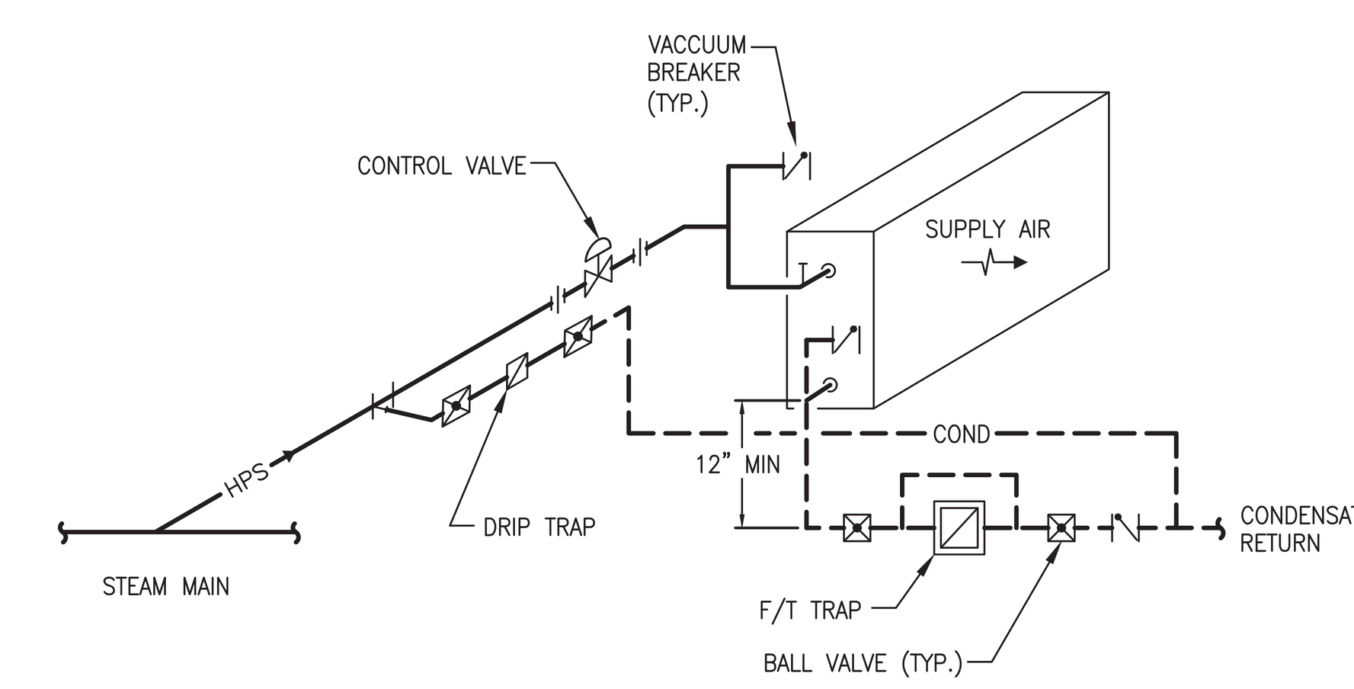
MAXIMUM PIPE/TUBING SUPPORT SPACING								
SIZE IN.	THRU 3/4	1	1 1/4	1 1/2	2	2 1/2	3	4
PIPE FT.	6	6	6	6	6	6	6	6
TUBING FT.	6	6	6	6	6	6	6	6

NOTE:
1. FOR TRAPEZE HANGER TAKE SPACING OF SMALLEST SIZE ON TRAPEZE.

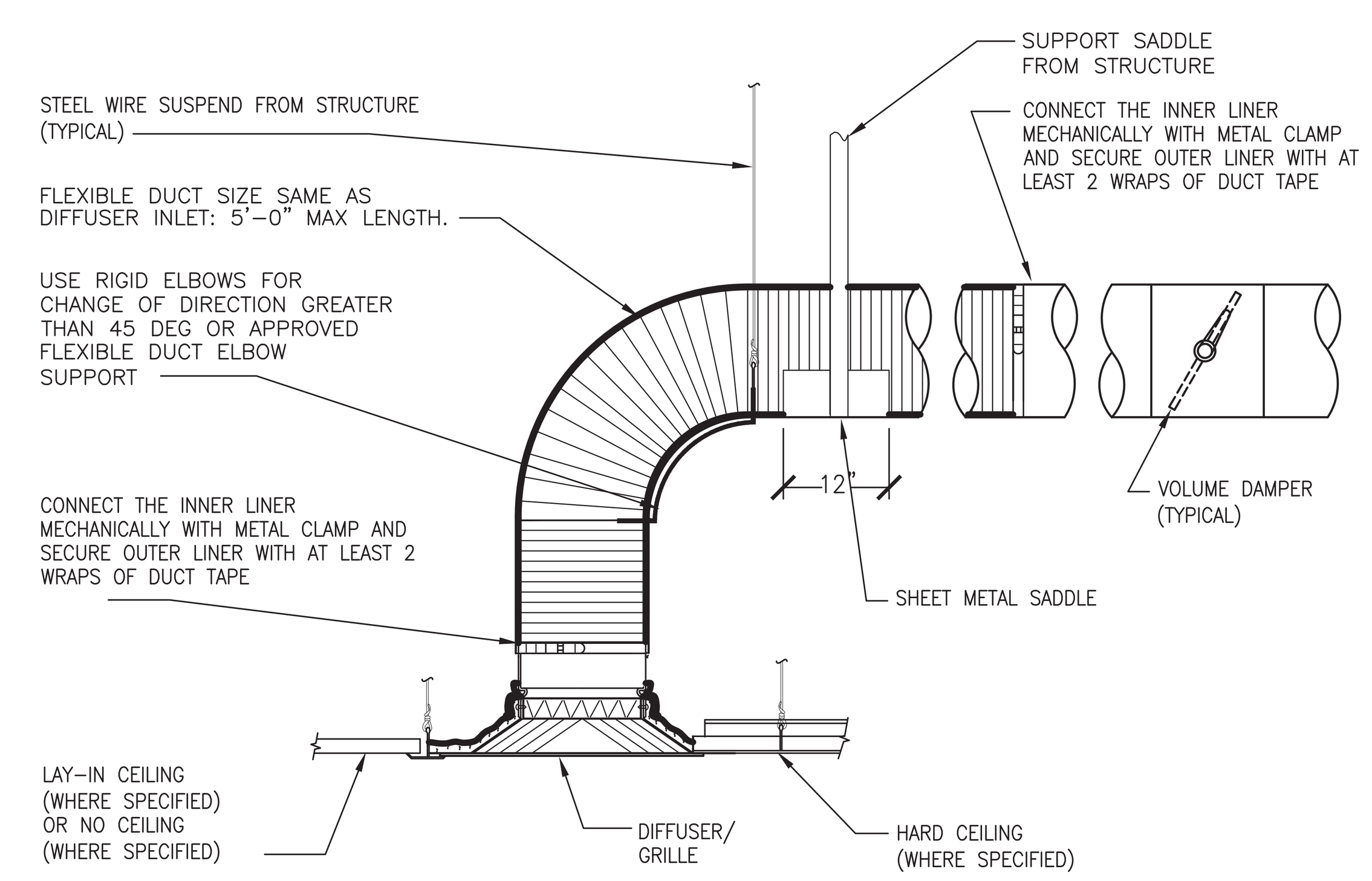


SIDE VIEW TRAPEZE HANGER FOR UP TO 1000 LB. UNIFORM LOAD

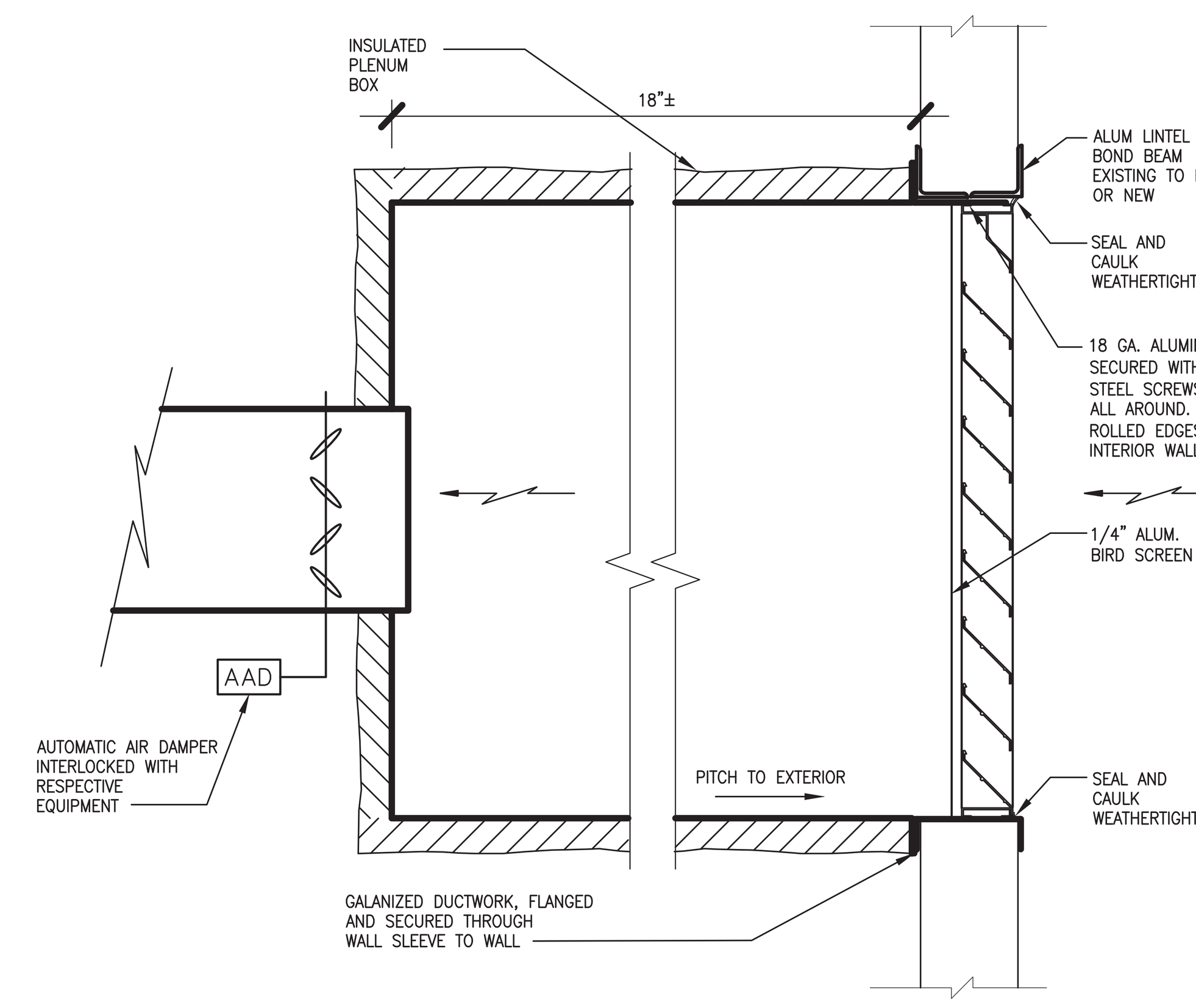
1 PIPE SUPPORT DETAIL
SCALE: NONE



2 STEAM HEATING COIL PIPING DETAIL
SCALE: NONE

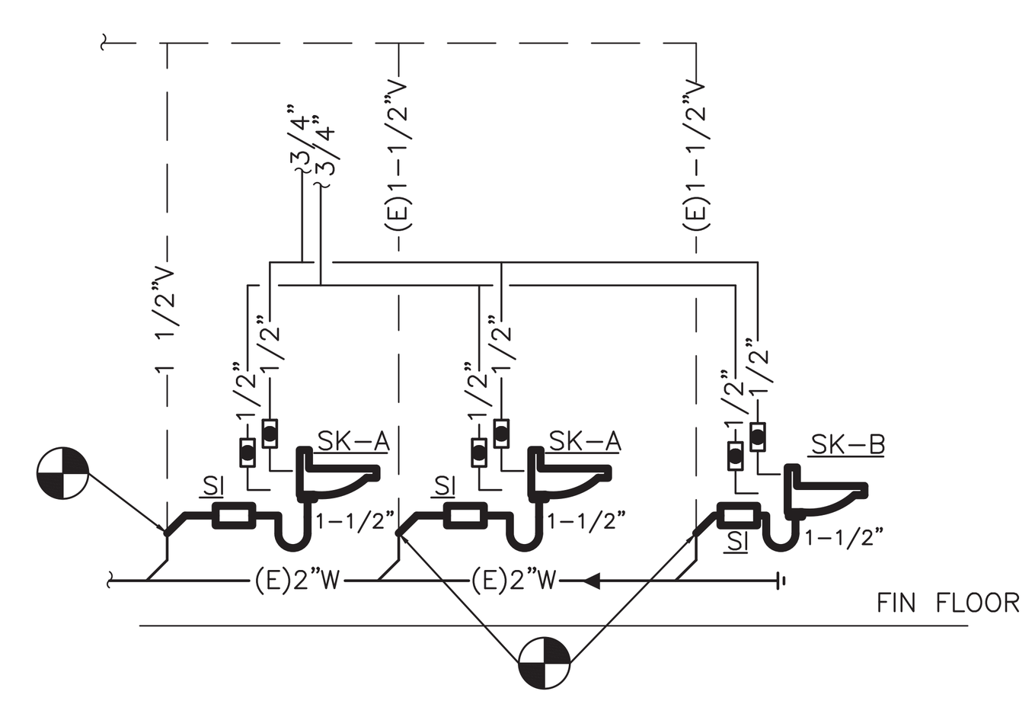


3 FLEXIBLE AIR DUCT CONNECTOR
SCALE: NONE



NOTES:
1. ALL HARDWARE SHALL BE CORROSION RESISTANT AND HAVE FINISH TO MATCH ADJACENT SURFACE WHERE EXPOSED TO VIEW.

4 LOUVER DETAIL
SCALE: NONE



NOTE:
PROVIDE SOLID INTERCEPTOR (SI) MIFAB MI–SOLIDS–S AND APPURTENANCES OR APPROVED EQUAL

5 PLUMBING RISER DIAGRAM
SCALE: NONE

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REVISION	DATE	BY
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DRAWN BY	JMJ	
CHECKED BY	JE	
SHEET SIZE	ARCH E1 30" x 42"	
SCALE	AS NOTED	

SHEET TITLE
DETAILS AND SCHEDULES

SHEET NO.
CHA
MP-500

FILE PATH –N: \1 – PROJECT DIRECTORIES\Yonkers Public Schools\Cross Hill Academy (Formerly Emerson)\Y21CH01 – Cross Hill Academy Fire CIP # 10929\cad\2021–09–14 ER\y21ch01.m500.dwg

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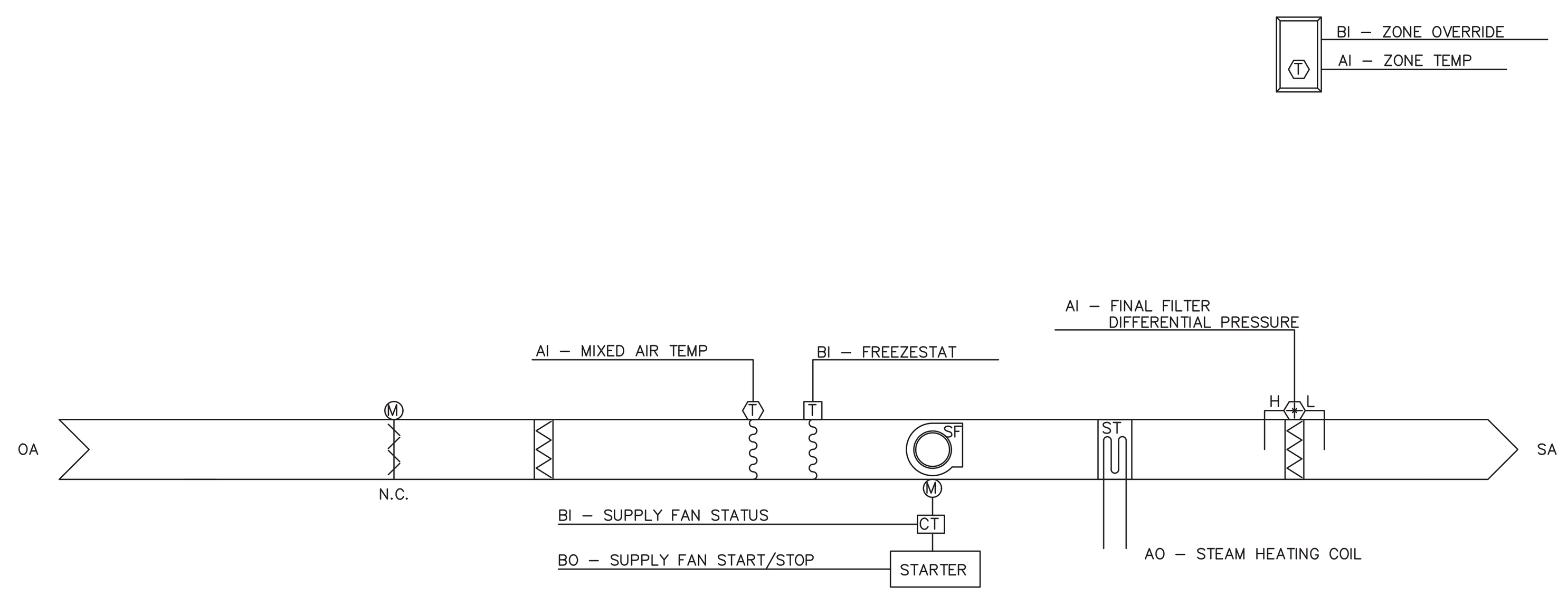


RUN CONDITIONS – SCHEDULED:
THE UNIT SHALL RUN ACCORDING TO A USER DEFINABLE TIME SCHEDULE IN THE FOLLOWING MODES:
OCCUPIED MODE: THE UNIT SHALL MAINTAIN
75 DEG. F (ADJ.) COOLING SETPOINT
70 DEG. F (ADJ.) HEATING SETPOINT.

UNOCCUPIED MODE (NIGHT SETBACK): THE UNIT SHALL MAINTAIN
80 DEG. F (ADJ.) COOLING SETPOINT.
65 DEG. F (ADJ.) HEATING SETPOINT.

ALARMS SHALL BE PROVIDED AS FOLLOWS:
HIGH ZONE TEMP: IF THE ZONE TEMPERATURE IS GREATER THAN THE COOLING SETPOINT BY A USER DEFINABLE AMOUNT (ADJ.).
LOW ZONE TEMP: IF THE ZONE TEMPERATURE IS LESS THAN THE HEATING SETPOINT BY A USER DEFINABLE AMOUNT (ADJ.).

ZONE OPTIMAL START:
THE UNIT SHALL USE AN OPTIMAL START ALGORITHM FOR MORNING START–UP. THIS ALGORITHM SHALL MINIMIZE THE UNOCCUPIED WARM–UP OR COOL–DOWN PERIOD WHILE STILL ACHIEVING COMFORT CONDITIONS BY THE START OF SCHEDULED OCCUPIED PERIOD.

ZONE UNOCCUPIED OVERRIDE:
A TIMED LOCAL OVERRIDE CONTROL SHALL ALLOW AN OCCUPANT TO OVERRIDE THE SCHEDULE AND PLACE THE UNIT INTO AN OCCUPIED MODE FOR AN ADJUSTABLE PERIOD OF TIME. AT THE EXPIRATION OF THIS TIME, CONTROL OF THE UNIT SHALL AUTOMATICALLY RETURN TO THE SCHEDULE.

FREEZE PROTECTION:
THE UNIT SHALL SHUT DOWN AND GENERATE AN ALARM UPON RECEIVING A FREEZESTAT STATUS.

SUPPLY FAN:
THE SUPPLY FAN SHALL RUN ANYTIME THE UNIT IS COMMANDED TO RUN, UNLESS SHUTDOWN ON SAFETIES. TO PREVENT SHORT CYCLING, THE SUPPLY FAN SHALL HAVE A USER DEFINABLE (ADJ.) MINIMUM RUNTIME.

ALARMS SHALL BE PROVIDED AS FOLLOWS:
SUPPLY FAN FAILURE: COMMANDED ON, BUT THE STATUS IS OFF.
SUPPLY FAN IN HAND: COMMANDED OFF, BUT THE STATUS IS ON.
SUPPLY FAN RUNTIME EXCEEDED: STATUS RUNTIME EXCEEDS A USER DEFINABLE LIMIT (ADJ.).

HEATING COIL:
THE CONTROLLER SHALL MEASURE THE ZONE TEMPERATURE AND MODULATE THE ELECTRIC HEATING COIL TO MAINTAIN ITS HEATING SET POINT.

THE HEATING SHALL BE ENABLED WHENEVER:
OUTSIDE AIR TEMPERATURE IS LESS THAN 65 DEG.F (ADJ.).
AND THE ZONE TEMPERATURE IS BELOW HEATING SETPOINT.
AND THE SUPPLY FAN STATUS IS ON.
THE HEATING COIL SHALL OPEN WHENEVER THE FREEZESTAT (IF PRESENT) IS ON.

MINIMUM OUTSIDE AIR VENTILATION – FIXED PERCENTAGE:
THE OUTSIDE AIR DAMPERS SHALL MAINTAIN A MINIMUM POSITION (ADJ.) DURING BUILDING OCCUPIED HOURS AND BE CLOSED DURING UNOCCUPIED HOURS.

FINAL FILTER DIFFERENTIAL PRESSURE MONITOR:
THE CONTROLLER SHALL MONITOR THE DIFFERENTIAL PRESSURE ACROSS THE FINAL FILTER.

ALARMS SHALL BE PROVIDED AS FOLLOWS:
FINAL FILTER CHANGE REQUIRED: FINAL FILTER DIFFERENTIAL PRESSURE EXCEEDS A USER DEFINABLE LIMIT (ADJ.).

MIXED AIR TEMPERATURE:
THE CONTROLLER SHALL MONITOR THE MIXED AIR TEMPERATURE AND USE AS REQUIRED FOR ECONOMIZER CONTROL (IF PRESENT) OR PREHEATING CONTROL (IF PRESENT).

ALARMS SHALL BE PROVIDED AS FOLLOWS:
HIGH MIXED AIR TEMP: IF THE MIXED AIR TEMPERATURE IS GREATER THAN 90 DEG. F (ADJ.).
LOW MIXED AIR TEMP: IF THE MIXED AIR TEMPERATURE IS LESS THAN 45 DEG. F (ADJ.).

1 AIR HANDLING UNIT CONTROL SCHEMATIC

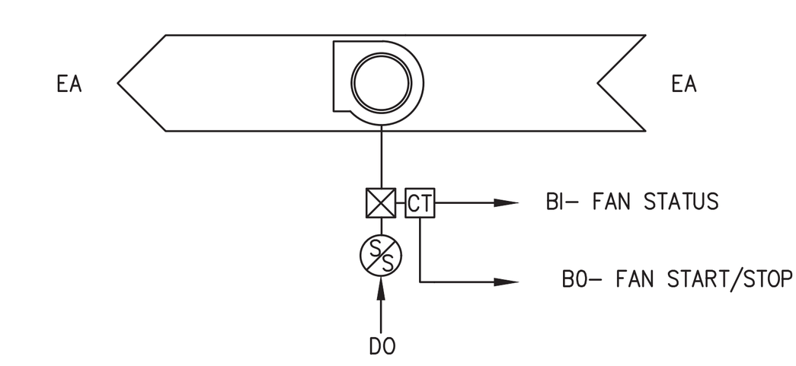
SCALE: NONE

SEQUENCE OF OPERATION

EXHAUST FAN(S):

RUN CONDITIONS INTERLOCKED:
THE FAN(S) EF–1, EF–2 SHALL BE INTERLOCKED TO RUN WHENEVER AHU–1 RUNS UNLESS SHUTDOWN ON SAFETIES.
FAN:
THE FAN SHALL HAVE A USER DEFINABLE (ADJ.) MINIMUM RUNTIME
FAN STATUS:

THE CONTROLLER SHALL MONITOR THE FAN STATUS.
ALARMS SHALL BE PROVIDED AS FOLLOWS:
FAN FAILURE: COMMANDED ON BUT THE STATUS IS OFF.
FAN IN HAND: COMMAND OFF, BUT THE STATUS IS ON.
FAN RUNTIME EXCEEDED: FAN STATUS RUNTIME EXCEEDS A USER DEFINABLE LIMIT (ADJ.)



2 EXHAUST FAN(S) CONTROL SCHEMATIC

SCALE: NONE

CONTROL DIAGRAMS LEGEND

AI = ANALOG INPUT. A PHYSICAL INPUT TO THE CONTROL MODULE.

AO = ANALOG OUTPUT. A PHYSICAL OUTPUT FROM THE CONTROL MODULE.

AV = ANALOG VALUE. AN INTERMEDIATE (SOFTWARE) POINT THAT MAY BE EDITABLE OR READ–ONLY. EDITABLE AVS ARE TYPICALLY USED TO ALLOW THE USER TO SET A FIXED CONTROL PARAMETER, SUCH AS A SETPOINT. READ ONLY AVS ARE TYPICALLY USED TO DISPLAY THE STATUS OF A CONTROL OPERATION.

BI = BINARY INPUT. A PHYSICAL INPUT TO THE CONTROL MODULE.

BO = BINARY OUTPUT. A PHYSICAL OUTPUT FROM THE CONTROL MODULE.

BV = BINARY VALUE. AN INTERMEDIATE (SOFTWARE) POINT THAT MAY BE EDITABLE OR READ–ONLY. EDITABLE BVS ARE TYPICALLY USED TO ALLOW THE USER TO SET A FIXED CONTROL PARAMETER, SUCH AS A SETPOINT. READ ONLY BVS ARE TYPICALLY USED TO DISPLAY THE STATUS OF A CONTROL OPERATION.

1_27_2022

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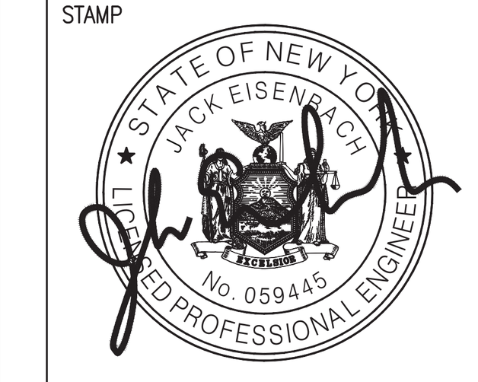
CONSULTANT(S):

STAMP



YONKERS PUBLIC SCHOOLS
FIRE RESTORATIONS
CROSS HILL ACADEMY
160 BOLMER AVE, YONKERS N.Y. 10703
S.E.D.# 66-23-0001-0041-011

E&R PROJECT NO.	Y21CH01	
YPS NO.	10929	
REVISION	DATE	BY
ISSUED FOR BID		
DRAWN BY	JMJ	
CHECKED BY	JIE	
SHEET SIZE	ARCH E1 30" x 42"	
SCALE	AS NOTED	

SHEET TITLE

CONTROL SCHEMATICS

SHEET NO.

CHA MP-600

FILE PATH -N:\1 - PROJECT DIRECTORIES\Yonkers Public Schools\Cross Hill Academy (Formerly Emerson)\Y21CH01 - Cross Hill Academy Fire CIP # 10929\cad\2021-09-14 ER\y21ch01-m600.dwg