Rockford Public Schools #205

2929 Charles St, Rockford, IL 61108

ESSER HVAC Improvements - East High School

MEP Sheet List

Number	Name
C000	GENERAL COVERSHEET
E000	ELECTRICAL COVERSHEET
E100A	BASEMENT DEMOLITION - ELECTRICAL - AREA A
E100B	BASEMENT DEMOLITION - ELECTRICAL - AREA B
E100C	BASEMENT DEMOLITION - ELECTRICAL - AREA C
E100D	BASEMENT DEMOLITION - ELECTRICAL - AREA D
E100E	BASEMENT DEMOLITION - ELECTRICAL - AREA E
E101A	FIRST FLOOR DEMOLITION - ELECTRICAL - AREA A
E101B	FIRST FLOOR DEMOLITION - ELECTRICAL - AREA B
E101E	FIRST FLOOR DEMOLITION - ELECTRICAL - AREA E
E102A	SECOND FLOOR DEMOLITION - ELECTRICAL - AREA A
E102B	SECOND FLOOR DEMOLITION - ELECTRICAL - AREA B & F
E103A	THIRD FLOOR DEMOLITION - ELECTRICAL - AREA A
E103B	THIRD FLOOR DEMOLITION - ELECTRICAL - AREA B & F
E104A	ROOF DEMOLITION - ELECTRICAL - AREA A
E104B	ROOF DEMOLITION - ELECTRICAL - AREA B
E104C	ROOF DEMOLITION - ELECTRICAL - AREA C
E104D	ROOF DEMOLITION - ELECTRICAL - AREA D
E104E	ROOF DEMOLITION - ELECTRICAL - AREA E
E200A	BASEMENT - ELECTRICAL - AREA A
E200B	BASEMENT - ELECTRICAL - AREA B
E200C	BASEMENT - ELECTRICAL - AREA C
E200D	BASEMENT - ELECTRICAL - AREA D
E200E	BASEMENT - ELECTRICAL - AREA E
E201A	FIRST FLOOR - ELECTRICAL - AREA A
E201B	FIRST FLOOR - ELECTRICAL - AREA B
E201E	FIRST FLOOR - ELECTRICAL - AREA E
E202A	SECOND FLOOR - ELECTRICAL - AREA A
E202B	SECOND FLOOR - ELECTRICAL - AREA B & F
E203A	THIRD FLOOR - ELECTRICAL - AREA A
E203B	THIRD FLOOR - ELECTRICAL - AREA B & F
E204A	ROOF - ELECTRICAL - AREA A
E204B	ROOF - ELECTRICAL - AREA B
E204C	ROOF - ELECTRICAL - AREA C
E204D	ROOF - ELECTRICAL - AREA D
E204E	ROOF - ELECTRICAL - AREA E
E400	ELECTRICAL DETAILS
E500	ELECTRICAL RISER DIAGRAM - EXISTING
E501	ELECTRICAL RISER DIAGRAM - NEW
E600	ELECTRICAL SCHEDULES
E601	ELECTRICAL SCHEDULES
E602	ELECTRICAL SCHEDULES
M000	MECHANICAL COVERSHEET
M000A	SUBFLOOR DEMOLITION - MECHANICAL - AREA A
M000D	SUBFLOOR DEMOLITION - MECHANICAL - AREA D
M100A	BASEMENT DEMOLITION - MECHANICAL - AREA A
M100B	BASEMENT DEMOLITION - MECHANICAL - AREA B
M100C	BASEMENT DEMOLITION - MECHANICAL - AREA C
M100D	BASEMENT DEMOLITION - MECHANICAL - AREA D
M100E	BASEMENT DEMOLITION - MECHANICAL - AREA E
M101A	FIRST FLOOR DEMOLITION - MECHANICAL - AREA A
M101B	FIRST FLOOR DEMOLITION - MECHANICAL - AREA B
M101E	FIRST FLOOR DEMOLITION - MECHANICAL - AREA E
M102A	SECOND FLOOR DEMOLITION - MECHANICAL - AREA A
M102B	SECOND FLOOR DEMOLITION - MECHANICAL - AREA B & F
M103A	THIRD FLOOR DEMOLITION - MECHANICAL - AREA A
M103B	THIRD FLOOR DEMOLITION - MECHANICAL - AREA B & F
M104A	ROOF DEMOLITION - MECHANICAL - AREA A
M104B	ROOF DEMOLITION - MECHANICAL - AREA B
M104C	ROOF DEMOLITION - MECHANICAL - AREA C
M104D	ROOF DEMOLITION - MECHANICAL - AREA D
M104E	ROOF DEMOLITION - MECHANICAL - AREA E
M199A	SUBFLOOR - MECHANICAL - AREA A
M200A	BASEMENT FLOOR - MECHANICAL - AREA A
M200B	BASEMENT FLOOR - MECHANICAL - AREA B
M200C	BASEMENT FLOOR - MECHANICAL - AREA C
M200D	BASEMENT FLOOR - MECHANICAL - AREA D
M200E	BASEMENT FLOOR - MECHANICAL - AREA E
M201A	FIRST FLOOR - MECHANICAL - AREA A
M201B	FIRST FLOOR - MECHANICAL - AREA B
M201E	FIRST FLOOR - MECHANICAL - AREA E
M202A	SECOND FLOOR - MECHANICAL - AREA A
M202B	SECOND FLOOR - MECHANICAL - AREA B & F
M203A	THIRD FLOOR - MECHANICAL - AREA A
M203B	THIRD FLOOR - MECHANICAL - AREA B & F
M204A	ROOF - MECHANICAL - AREA A
M204B	ROOF - MECHANICAL - AREA B
M204C	ROOF - MECHANICAL - AREA C
M204D	ROOF - MECHANICAL - AREA D
M204E	ROOF - MECHANICAL - AREA E
M400	MECHANICAL DETAILS
M401	MECHANICAL DETAILS
M402	MECHANICAL DETAILS
M500	CHILLED WATER FLOW DIAGRAM
M501	STEAM TO HOT WATER FLOW DIAGRAM
M600	MECHANICAL SCHEDULES
M601	MECHANICAL SCHEDULES
MC000	TEMPERATURE CONTROL COVERSHEET
MC200A	BASEMENT FLOOR - CONTROLS - AREA A
MC200B	BASEMENT FLOOR - CONTROLS - AREA B
MC200C	BASEMENT FLOOR - CONTROLS - AREA C
MC200D	BASEMENT FLOOR - CONTROLS - AREA D
MC200E	BASEMENT FLOOR - CONTROLS - AREA E
MC201A	FIRST FLOOR - CONTROLS - AREA A
MC201B	FIRST FLOOR - CONTROLS - AREA B
MC201E	FIRST FLOOR - CONTROLS - AREA E
MC202A	SECOND FLOOR - CONTROLS - AREA A
MC202B	SECOND FLOOR - CONTROLS - AREA B & F
MC203A	THIRD FLOOR - CONTROLS - AREA A
MC203B	THIRD FLOOR - CONTROLS - AREA B & F
MC204A	ROOF - CONTROLS - AREA A
MC204B	ROOF - CONTROLS - AREA B
MC204C	ROOF - CONTROLS - AREA C
MC204D	ROOF - CONTROLS - AREA D
MC204E	ROOF - CONTROLS - AREA E
MC500	CONTROL DIAGRAMS
MC501	CONTROL DIAGRAMS
MC502	CONTROL DIAGRAMS
MC503	CONTROL DIAGRAMS
P000	PLUMBING COVERSHEET
P200A	BASEMENT FLOOR - PLUMBING - AREA A

MEP Sheet List

Number	Name
P200B	BASEMENT FLOOR - PLUMBING - AREA B
P200E	BASEMENT FLOOR - PLUMBING - AREA E
P201A	FIRST FLOOR - PLUMBING - AREA A
P201B	FIRST FLOOR - PLUMBING - AREA B
P201E	FIRST FLOOR - PLUMBING - AREA E
P202A	SECOND FLOOR - PLUMBING - AREA A
P202B	SECOND FLOOR - PLUMBING - AREA B & F
P203A	THIRD FLOOR - PLUMBING - AREA A
P203B	THIRD FLOOR - PLUMBING - AREA B & F
P204A	ROOF - PLUMBING - AREA A
P204B	ROOF - PLUMBING - AREA B
P204C	ROOF - PLUMBING - AREA C
P204D	ROOF - PLUMBING - AREA D
P400	PLUMBING DETAILS AND SCHEDULES

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STRUCTURAL / ARCHITECTURAL Sheet List

SHEET...	SHEET NAME
S00	GENERAL NOTES
S100	OVERALL ROOF PLAN
S101	SUPPORT FRAMING PLANS
S102	SUPPORT FRAMING PLANS
S300	DETAILS
G0.01	GENERAL INFORMATION, DOOR SCHEDULE, DOOR TYPE, FRAME TYPE, HEAD, SILL, AND...
G1.00	BASEMENT FLOOR CODE PLAN
G1.01	FIRST FLOOR CODE PLAN
G1.02	SECOND FLOOR CODE PLAN
G1.03	THIRD FLOOR CODE PLAN
G2.01	BASEMENT FLOOR FINISH SCHEDULE
G2.02	BASEMENT FLOOR FINISH SCHEDULE
G2.03	FIRST FLOOR FINISH SCHEDULE
G2.04	FIRST & SECOND FLOOR FINISH SCHEDULE
G2.05	SECOND FLOOR FINISH SCHEDULE
G2.06	THIRD FLOOR FINISH SCHEDULE
D0.00A	SUBFLOOR DEMOLITION PLAN
D1.00A	BASEMENT FLOOR DEMOLITION PLAN – AREA A
D1.00B	BASEMENT FLOOR DEMOLITION PLAN – AREA B
D1.00C	BASEMENT FLOOR DEMOLITION PLAN – AREA C
D1.00D	BASEMENT FLOOR DEMOLITION PLAN – AREA D
D1.00E	BASEMENT FLOOR DEMOLITION PLAN – AREA E
D1.01A	FIRST FLOOR DEMOLITION PLAN – AREA A
D1.01B	FIRST FLOOR DEMOLITION PLAN – AREA B
D1.01E	FIRST FLOOR DEMOLITION PLAN – AREA E
D1.02A	SECOND FLOOR DEMOLITION PLAN – AREA A
D1.02B	SECOND FLOOR DEMOLITION PLAN – AREA B & F
D1.03A	THIRD FLOOR DEMOLITION PLAN – AREA A
D1.03B	THIRD FLOOR DEMOLITION PLAN – AREA B & F
D1.04A	ROOF DEMOLITION PLAN – AREA A
D1.04B	ROOF DEMOLITION PLAN – AREA B
D1.04C	ROOF DEMOLITION PLAN – AREA C
D1.04D	ROOF DEMOLITION PLAN – AREA D
D1.04E	ROOF DEMOLITION PLAN – AREA E
A1.00A	BASEMENT FLOOR PLAN – AREA A
A1.00B	BASEMENT FLOOR PLAN – AREA B
A1.00C	BASEMENT FLOOR PLAN – AREA C
A1.00D	BASEMENT FLOOR PLAN – AREA D
A1.00E	BASEMENT FLOOR PLAN – AREA E
A1.01A	FIRST FLOOR PLAN – AREA A
A1.01B	FIRST FLOOR PLAN – AREA B
A1.01E	FIRST FLOOR PLAN – AREA E
A1.02A	SECOND FLOOR PLAN – AREA A
A1.02B	SECOND FLOOR PLAN – AREA B & F
A1.03A	THIRD FLOOR PLAN – AREA A
A1.03B	THIRD FLOOR PLAN – AREA B & F
A1.04A	ROOF PLAN – AREA A
A1.04B	ROOF PLAN – AREA B
A1.04C	ROOF PLAN – AREA C
A1.04D	ROOF PLAN – AREA D
A1.04E	ROOF PLAN – AREA E
A1.05	ROOF PLAN DETAILS
A1.06	ROOF PLAN DETAILS
A1.07	ROOF PLAN DETAILS
A2.00A	BASEMENT REFLECTED CEILING PLAN – AREA A
A2.00C	BASEMENT REFLECTED CEILING PLAN – AREA C
A2.00E	BASEMENT REFLECTED CEILING PLAN – AREA E
A2.01A	FIRST FLOOR REFLECTED CEILING PLAN – AREA A
A2.02A	SECOND FLOOR REFLECTED CEILING PLAN – AREA A
A2.03A	THIRD FLOOR REFLECTED CEILING PLAN – AREA A
A2.03B	THIRD FLOOR REFLECTED CEILING PLAN – AREA B & F

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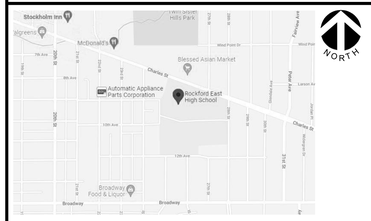
VICINITY MAP



APPLICABLE CODES

2015 International Energy Conservation Code (IECC)

2015 International Existing Building Code (IEBC)

2015 International Fire Code (IFC), excluding Chapter 4

2015 International Fuel Gas Code (IFGC)

2015 International Mechanical Code (IMC)

2014 Illinois Plumbing Code

2014 for Electrical Code

SCOPE OF WORK

HEATING, VENTILATION AND AIR CONDITIONING REVISIONS TO SCHOOL AS WELL AS ARCHITECTURAL, STRUCTURAL AND ELECTRICAL REVISIONS TO SUPPORT THE HVAC WORK.

PHASING REQUIREMENTS: PROJECT SHALL BE PHASED SUCH THAT THE HEATING IS AVAILABLE AT ALL TIMES DURING SCHOOL OPERATION. INITIAL RECOMMENDATION IS FOR CONTRACTOR TO PUT TOGETHER A PHASING PLAN BASED ON ROUGHING IN NEW HEATING AND CHILLED WATER PIPING DURING SUMMER 2022. DEMOLITION OF EXISTING STEAM HEATING SYSTEM, INSTALLATION OF NEW FAN COIL UNITS, AND TRANSITION TO NEW HOT WATER SYSTEM WOULD OCCUR IN SUMMER 2023.

BUILDING INFORMATION

IFB# - 22-23

RPS #205 PROJECT NUMBER: 2233

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ROCKFORD PUBLIC SCHOOLS

ESSER HVAC Improvements - East High School

2929 Charles St, Rockford, IL 61108

Rockford Public Schools #205

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REVISIONS

No.	Date	Revision / Issue

SHEET INFORMATION

Issue: **BID DOCUMENTS**

Date: **JANUARY 28, 2022**

Job Number: **21002885.04**

SHEET TITLE

GENERAL COVERSHEET

SCALE

Scale:

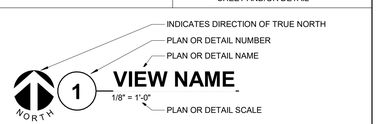
SHEET NUMBER

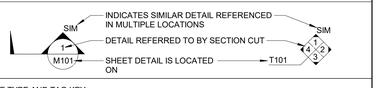
C000

VIEW KEY

NAME → LEVEL NAME
10'-0" → HEIGHT ABOVE PROJECT 0'-0"

(1) → INDICATES NOTE USED TO DESCRIBE ADDITIONAL INFORMATION ABOUT WORK REQUIRED, SPECIFIC TO THE SHEET AND/OR DETAIL





LINE TYPE AND TAG KEY:

NEW WORK BY THIS CONTRACTOR (WIDE LINE)
- NEW
- EXISTING TO BE REMOVED (SHORT DASHED PATTERN)
- NEW UNDERFLOOR OR UNDERGROUND (LONG DASHED PATTERN)

EXISTING TO REMAIN OR WORK BY OTHERS (NARROW LINE)
- EXISTING
- EXISTING TO BE REMOVED BY OTHERS (SHORT DASHED PATTERN)
- EXISTING UNDERFLOOR OR UNDERGROUND (LONG DASHED PATTERN)

HALFTONING DOES NOT MODIFY SCOPE.

'TAG'-E	TAGS WITH DASH 'E' INDICATES THE REFERENCED OBJECT IS EXISTING
TAG-1	UNDERLINED TAG INDICATES OBJECT IS IN-SCOPE. IF NEW, ADDITIONAL INFORMATION IS AVAILABLE IN A SCHEDULE, MATERIAL LIST, OR SYMBOL LIST
	INDICATES AN EXISTING SYSTEM'S POINT OF CONNECTION/REMOVAL

FIRE / SMOKE BARRIER DESIGNATIONS

THE LINE TYPES SHOWN ARE FOR THE CONVENIENCE OF THE CONTRACTOR. THE CONTRACTOR SHALL VERIFY RATINGS WITH THE LATEST SET OF ARCHITECTURAL PLANS AND FURNISH ALL MATERIALS REQUIRED TO COMPLY WITH THOSE RATINGS WHETHER SHOWN OR NOT.

ALL [FLOOR, FLOOR CEILING, AND ROOF CEILING] ASSEMBLIES SHALL BE DESIGNATED AS 1 OR 2 HOUR FIRE BARRIERS, UNLESS NOTED OTHERWISE ON THE PLANS. RATINGS WERE ACQUIRED FROM THE ARCHITECTURAL PLANS DATED [12/28/2021].

1 HOUR FIRE WALL	
2 HOUR FIRE WALL	

CONTRACTOR ABBREVIATION KEY

ABBR:	DESCRIPTION:
A.C.	ASBESTOS ABATEMENT CONTRACTOR
C.C.	CIVIL CONTRACTOR
C.M.	CONSTRUCTION MANAGER
E.C.	ELECTRICAL CONTRACTOR
F.P.C.	FIRE PROTECTION CONTRACTOR
G.C.	GENERAL CONTRACTOR
H.C.	HEATING CONTRACTOR
M.C.	MECHANICAL CONTRACTOR
T.C.C.	TEMPERATURE CONTROLS CONTRACTOR
V.C.	VENTILATION CONTRACTOR

ELECTRICAL ABBREVIATION KEY

ABBR:	DESCRIPTION:
AFF	ABOVE FINISHED FLOOR
C	CONDUIT
GFI	GROUND FAULT INTERRUPTER
N.C.	NORMALLY CLOSED
NIC	NOT IN CONTRACT
N.O.	NORMALLY OPEN
SV	SOLENOID VALVE
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE

CONDUIT INSTALLATION SCHEDULE

THE FOLLOWING SCHEDULE SHALL BE ADHERED TO UNLESS THEY CONSTITUTE A VIOLATION OF APPLICABLE CODES OR ARE NOTED OTHERWISE ON THE DRAWINGS. THE INSTALLATION OF RMC CONDUIT WILL BE PERMITTED IN PLACE OF ALL CONDUIT SPECIFIED IN THIS SCHEDULE. REFER TO CONDUIT AND BOXES SPECIFICATION 25 05 33 FOR ADDITIONAL INFORMATION.

INSTALLATION TYPE	RMC	EMT	ASR
FEEDERS: SWITCHBOARDS, DISTRIBUTION PANELS, PANELBOARDS, MOTOR CONTROL CENTERS, ETC.		X	
BRANCH CIRCUITS: LIGHTING, RECEPTACLES, CONTROLS, ETC.		X	
MECHANICAL EQUIPMENT FEEDERS: PUMPS, CHILLERS, AIR HANDLING UNITS, ETC.		X	
FLOOR MOUNTED EQUIPMENT FEEDERS: PUMPS, ETC. (INCLUDE NO MORE THAN 6 FEET OF LFMC TO PUMP)		X	
CONTROLS (LIGHTING, POWER, BUILDING AUTOMATION, ETC.)		X	
FINISHED SPACES / CONCEALED		X	
WET AND DAMP LOCATIONS: (CONDUIT, BOXES, FITTINGS, INSTALLED AND EQUIPPED TO PREVENT WATER ENTRY)	X		
ELEVATED CONCRETE SLABS (ABOVE GRADE)	X		
INTERIOR LOCATIONS: CONCEALED		X	
INTERIOR LOCATIONS: EXPOSED		X	
INTERIOR LOCATIONS: EXISTING WALLS AND EXPOSED INSTALLATION (FINISHED SPACES)			X
UNDERGROUND / SLABS ON GRADE (IN OR UNDER SLABS ON GRADE)			
WITHIN 5' FROM THE PERIMETER OF THE BUILDING	X		
WITHIN 5' FROM THE PERIMETER OF THE BUILDING WHEN PASSING THROUGH THE PERIMETER OF THE BUILDING FOUNDATION:	X		
UNDERGROUND SITE CONDUITS:			
WITHIN 5' FROM THE PERIMETER OF A BUILDING FOUNDATION	X		
5' OR GREATER FROM THE PERIMETER OF A BUILDING FOUNDATION	X		

ELECTRICAL SYMBOL LIST

SYMBOL:	TAG:	SPEC SECTION:	DESCRIPTION:
GB	GB	26 05 26	GROUND BUS
IBT	IBT	26 05 26	INTERSYSTEM BONDING TERMINATION
E / E	ECONN	26 05 33	ELECTRICAL CONNECTION
J / J	JB	26 05 33	JUNCTION BOX
▼	RI-TECH	26 05 33	TECHNOLOGY OUTLET ROUGH-IN
▼	RI-TECH-C	26 05 33	TECHNOLOGY ROUGH-IN, CEILING
W ▼	RI-TECH-W	26 05 33	TECHNOLOGY ROUGH-IN, WALL PHONE
	WW-#	26 05 35	ELECTRICAL WIREWAY w/ DEVICES SHOWN
DPM	DPM	26 24 13	DIGITAL POWER METER
	PANEL '###'	26 24 16	PANELBOARD - RECESS MOUNT
	PANEL '###'	26 24 16	PANELBOARD - SURFACE MOUNT
	TR-#	26 22 00	TRANSFORMER. REFER TO TRANSFORMER SCHEDULE
	REC-DUP	26 27 26	DUPLEX RECEPTACLE, 125V
	REC-DUP-GFI	26 27 26	DUPLEX GFI RECEPTACLE, 125V
W	REC-DUP-WP	26 27 26	DUPLEX GFI WEATHERPROOF RECEPTACLE 125V
	REC-QUAD	26 27 26	QUAD RECEPTACLE, 125V
	REC-QUAD-GFI	26 27 26	QUAD GFI RECEPTACLE, 125V
W	REC-QUAD-WP	26 27 26	QUAD GFI WEATHERPROOF RECEPTACLE, 125V
S	REC-SUR	26 27 26	SURGE SUPPREATION DUPLEX RECEPTACLE, 125V
S	SW-1P	26 09 33	SWITCH - SINGLE POLE
S_3	SW-3W	26 09 33	SWITCH - THREE WAY
VC D	SW-VS-D	26 09 33	VACANCY SENSOR - DUAL TECHNOLOGY
OC D	SW-OC-D	26 09 33	OCCUPANCY SENSOR - DUAL TECHNOLOGY
OC A	SW-OC-U-A	26 09 33	OCCUPANCY SENSOR - ULTRASONIC TWO SIDED CORRIDOR COVERAGE
SW	SW	26 09 33	WALL CONTROL STATION
SD	FA-120	28 31 00	FIRE ALARM SMOKE DETECTOR - CEILING MOUNTED
SD / SD	FA-122	28 31 00	FIRE ALARM DUCT SMOKE DETECTOR
F	FA-130	28 31 00	FIRE ALARM MANUAL PULL STATION
H	FA-140	28 31 00	FIRE ALARM HEAT DETECTOR
CO	FA-121	28 31 00	FIRE ALARM CARBON MONOXIDE/HEAT/SMOKE DETECTOR
AR	FA-161	28 31 00	FIRE ALARM RELAY
A1 A3 / A7 AH	FA-211	28 31 00	FIRE ALARM AUDIO(HORN)/VISUAL NOTIFICATION DEVICE - WALL MOUNTED
AW	FA-211	28 31 00	FIRE ALARM AUDIO(HORN)/VISUAL NOTIFICATION DEVICE - WALL MOUNTED - WEATHERPROOF

ELECTRICAL EQUIPMENT TAGS

TAG:	DESCRIPTION:	RELATED SPECIFICATION
DP-#	DISTRIBUTION PANEL	26 24 16
TR-#	TRANSFORMER - DISTRIBUTION TYPE REFER TO TRANSFORMER SCHEDULE	26 22 00
MC-#	EXTERIOR MOUNTED METERING CABINET	26 20 00
SB-#	SWITCHBOARD	26 24 13
SPD-#	SURGE PROTECTION DEVICE	26 43 00
VFD-#	VARIABLE FREQUENCY DRIVE - REFER TO VFD SCHEDULE	26 29 23

ELECTRICAL SYMBOL LIST

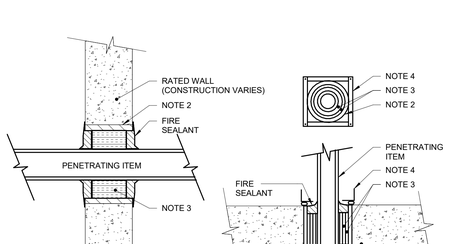
SYMBOL:	TAG:	SPEC SECTION:	DESCRIPTION:
	REFER TO LUMINAIRE SCHEDULE		TROFFER
			WALL SCONCE LUMINAIRE
			DOWNLIGHT LUMINAIRE
			INDUSTRIAL LUMINAIRE
⊗			SINGLE FACE EXIT SIGN
⊗			DOUBLE FACE EXIT SIGN
			EMERGENCY UNIT

LUMINAIRE SYMBOL KEY

SYMBOL:	DESCRIPTION:
○	NORMAL BRANCH LUMINAIRE
○	'NL' - UNSWITCHED EMERGENCY BRANCH LUMINAIRE F#E/NL- UNSWITCHED NORMAL BRANCH LUMINAIRE - WITH EMERGENCY BATTERY DRIVER
⊘	'EM'- EMERGENCY BRANCH LUMINAIRE 'SE' - SWITCHED NORMAL BRANCH LUMINAIRE - WITH EMERGENCY BATTERY DRIVER

EXISTING/DEMO ELECTRICAL SYMBOL LIST

SYMBOL:	DESCRIPTION:
E / E	ELECTRICAL CONNECTION
J / J	JUNCTION BOX
	PANELBOARD - SURFACE MOUNT
	PANELBOARD - RECESS MOUNT
	EXIT SIGN
	PENDANT LUMINAIRE
	1'X4' LUMINAIRE
○	DOWNLIGHT PENDANT LUMINAIRE
S	SWITCH - SINGLE POLE
S_K	SWITCH - KEY TYPE
	DUPLEX RECEPTACLE, 125V
W	WEATHERPROOF DUPLEX GFI RECEPTACLE, 125V
	DISCONNECT SWITCH
	TRANSFORMER
TC	TIME CLOCK
M	METER
SD / SD	FIRE ALARM SMOKE DETECTOR - CEILING MOUNTED FIRE ALARM DUCT SMOKE DETECTOR
A1	FIRE ALARM AUDIO/VISUAL WALL MOUNTED
F	FIRE ALARM MANUAL PULL STATION
C	CLOCK RECEPTACLE - WALL MOUNTED
S	SPEAKER - WALL MOUNTED
CL	WALL MOUNTED CLOCK
CM	CAMERA - CEILING MOUNTED
CM	CAMERA - WALL MOUNTED
B	BELL - WALL MOUNTED
AR	ADDRESSABLE RELAY



1 FIRE BARRIER PENETRATION

NO SCALE

NOTES :

1. THIS GENERAL DETAIL APPLIES TO ALL ITEMS PENETRATING FIRE RATED WALLS OR FLOORS. THE INTENT IS TO MAINTAIN THE FIRE RATING AND TO ALLOW LONGITUDINAL MOVEMENT. REFER TO SPECIFICATION SECTION 26 05 03 FOR SELECTION OF THROUGH PENETRATION FIRE STOPPING.
2. SCHEDULE 5 PIPE SLEEVE EMBEDDED IN WALL OR FLOOR. OR SMOOTH CORE DRILL. EACH CONTRACTOR FURNISHES SLEEVE TO G.C.; COORDINATES SLEEVE LOCATIONS AND DEBURS SLEEVE. G.C. BUILDS SLEEVE INTO WALL OR FLOOR ALLOWING NO GAP AROUND SLEEVE. IF SLEEVE IS NOT PROVIDED WHEN WALL OR FLOOR IS BUILT, CONTRACTOR SHALL INSTALL SLEEVE. SLEEVE SIZE SHALL ALLOW ANNULAR SPACE REQUIRED BY THE SELECTED FIRE STOP SYSTEM.
3. INSTALL BACKING MATERIAL, SUCH AS MINERAL WOOL SAFING, AS REQUIRED FOR FIRE STOP SYSTEM. INSTALL IN ACCORDANCE WITH FIRE STOP SYSTEM APPLICATION LISTING. SECURE TO WALL OR FLOOR TO ALLOW LONGITUDINAL MOVEMENT OF PENETRATING ITEM WITHOUT MOVEMENT OF FIRE BARRIER.
4. WATER-TIGHT WELDED 1"x1" 20 GAUGE MINIMUM GALVANIZED SHEET METAL ANGLE FRAME. BY CONTRACTOR IN EQUIPMENT ROOMS FOR WATER STOP. PLACE A BEAD OF WATERPROOF SEALANT BETWEEN FLOOR AND BOTTOM OF ANGLE FRAME. SECURE TO FLOOR WITH MASONRY ANCHORS IN CORNERS AND ON 12" MAXIMUM CENTERS. MULTIPLE PENETRATING ITEMS MAY BE ENCLOSED IN ONE FRAME.

ELECTRICAL RENOVATION NOTES:

THESE NOTES APPLY TO ALL ELECTRICAL SHEETS AND TRADES, INCLUDING BUT NOT LIMITED TO, LIGHTING, POWER, AND SYSTEMS.

1. EXISTING CONDITIONS ARE SHOWN BASED ON INFORMATION OBTAINED FROM FIELD SURVEYS, EXISTING BUILDING DOCUMENTS, AND STAFF. VERIFY EXISTING CONDITIONS AND REPORT ANY CONFLICTS BEFORE PROCEEDING.
2. NOT ALL EXISTING EQUIPMENT, LUMINAIRES, AND CONDUIT ARE SHOWN. VERIFY EXISTING CONDITIONS AND REPORT ANY CONFLICTS WITH NEW WORK BEFORE STARTING WORK.
3. FIELD VERIFY THE AVAILABLE CLEARANCES FOR CABLE TRAY, BUSWAY AND CONDUITS BEFORE FABRICATION. RISES AND DROPS MAY BE NECESSARY BECAUSE OF EXISTING FIELD CONDITIONS.
4. EACH CONTRACTOR SHALL FIELD VERIFY ACCESSIBILITY TO THE AREA OF HIS/HER WORK AND SHALL NOTIFY THE GENERAL CONTRACTOR PRIOR TO BIDDING IF OTHER UTILITIES ARE REQUIRED TO BE REMOVED OR RELOCATED TO ALLOW ACCESS TO HIS/HER AREA OF WORK.
5. THE CONTRACTOR SHALL CUT AND PATCH ROOFS, WALLS, AND FLOORS ASSOCIATED WITH HIS/HER WORK.
6. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR REMOVAL AND REPLACEMENT OF CEILINGS, CEILING TILES, AND CEILING GRIDS ASSOCIATED WITH AREAS OF WORK BY ALL CONTRACTORS. NOTIFY THE GENERAL CONTRACTOR OF AFFECTED AREAS PRIOR TO BIDDING.
7. WHERE EXISTING ELECTRICAL SYSTEMS ARE LOCATED IN AREAS THAT CONFLICT WITH NEW EQUIPMENT, PIPING, OR DUCTWORK TO BE INSTALLED, EACH CONTRACTOR SHALL EITHER ARRANGE NEW EQUIPMENT, CONDUIT, OR DUCTWORK IN SUCH A FASHION THAT IT DOES NOT CONFLICT WITH EXISTING SYSTEMS, OR REWORK EXISTING ELECTRICAL SYSTEMS TO ALLOW FOR INSTALLATION OF NEW EQUIPMENT, PIPING, OR DUCTWORK.
8. ALL LUMINAIRES SHOWN TO BE DEMOLISHED SHALL BE DISPOSED OF IF NOT REQUIRED BY OWNER FOR ATTIC STOCK. CONFIRM WITH OWNER PRIOR TO DISPOSAL IF THE LAMPS, LENS OR SUBSET OF LUMINAIRES SHOULD BE TURNED OVER FOR ATTIC STOCK.
9. REMOVE EXISTING LUMINAIRES AND WALL SWITCHES WHERE SHOWN. LOCATE AND IDENTIFY ELECTRICAL CIRCUIT SERVING REMOVED LUMINAIRES FOR REUSE WITH NEW DEVICES.
10. COORDINATE HOURS OF ACCESS WITH OWNER.
11. EXISTING EMERGENCY LIGHTING AND EXIT SIGNAGE SHALL REMAIN.
12. REMOVE EXISTING LUMINAIRE AND PREPARE FOR INSTALLATION OF NEW LUMINAIRE IN SAME LOCATION OR NEW LOCATION.
13. MATCH EXISTING FACEPLATE FINISH AND TYPE FOR ALL LOCATIONS WHERE NEW WALL CONTROL DEVICE IS BEING INSTALLED.
14. WHERE WALL SWITCH DEVICE IS REMOVED AND NOT REPLACED. PROVIDE WITH BLANK SWITCH PLATE.
15. EXPOSED 3/4" CONDUIT TO NEW OR EXISTING FIXTURES OR DEVICES IS ACCEPTABLE AS LONG AS IT IS INSTALLED IN A NEAT AND ORDERLY METHOD AND MEETS ADOPTED CODES. COORDINATE NEW RUNS WITH OWNER PRIOR TO INSTALLATIONS.
16. REUSE EXISTING CONDUIT, WIRE, CONTROL AND JUNCTION BOXES. PROVIDE NEW IF REQUIRED TO INSTALL THE NEW LUMINAIRE.
17. PROVIDE (1) UNSWITCHED LEG FROM PANEL SERVING THE EMERGENCY FIXTURES TO THE SENSOR LEG SERVING THE NEW BATTERY BACK UP IN NEW LUMINAIRES.
18. CONNECT NEW LUMINAIRES TO CIRCUIT THAT SERVED PREVIOUSLY REMOVED LUMINAIRE USING 2#12 &1#12 GND IN 3/4" C. EXTEND CONDUIT AND CONDUCTORS AS REQUIRED TO MAKE CONNECTION. CONDUIT IN GOOD CONDITION SHALL BE REUSED IN PLACE.
19. REPLACE CEILING TILES WITH LIKE IN AREAS WITH A REDUCTION IN LUMINAIRE. REUSE EXISTING CEILING TILES WHERE APPLICABLE. PROVIDE NEW TO MATCH EXISTING IF REQUIRED. ADJUST AND MOVE AIR RETURN GRILLS AS REQUIRED TO COORDINATE WITH REVISED LUMINAIRE LAYOUT IN AREAS WITH A LAYIN CEILING.
20. COORDINATE LOCATIONS OF NEW LUMINAIRES WITH EXISTING DUCT, PIPING, STRUCTURAL AND CEILING MOUNTED DEVICES.

ELECTRICAL LIGHTING DEMOLITION NOTES:

1. THE ELECTRICAL LIGHTING DRAWINGS INDICATE EXISTING ELECTRICAL ITEMS TO BE REMOVED. THE DRAWINGS ARE INTENDED TO INDICATE THE SCOPE OF WORK REQUIRED AND DO NOT INDICATE EVERY BOX, CONDUIT, OR WIRE THAT MUST BE REMOVED. THE CONTRACTOR SHALL VISIT THE SITE PRIOR TO SUBMITTING A BID AND VERIFY EXISTING CONDITIONS.
2. EQUIPMENT REMOVAL IN CERTAIN LOCATIONS MAY REQUIRE THE INSTALLATION OF A JUNCTION BOX TO RECONNECT CIRCUITS THAT REMAIN IN OPERATION. EXTEND CONDUIT AND WIRING AS REQUIRED TO MAINTAIN POWER TO REMAINING EQUIPMENT.
3. BALLASTS MANUFACTURED PRIOR TO 1980 CONTAIN PCBs AND SHALL BE DISPOSED OF BY A FEDERAL OR STATE E.P.A. APPROVED METHOD AND IN ACCORDANCE WITH SPECIFICATIONS.
4. HID AND FLUORESCENT LAMPS CONTAIN MERCURY AND SHALL BE DISPOSED OF BY A FEDERAL OR STATE E.P.A. APPROVED METHOD AND IN ACCORDANCE WITH SPECIFICATIONS.
5. REUSE EXISTING CONDUIT, CIRCUITS AND LIGHTING CONTROL WHERE POSSIBLE. PROVIDE NEW CONDUIT AND WIRE WHERE SHOWN, MISSING OR REQUIRED TO INSTALL THE NEW LIGHT FIXTURES.
6. WHERE REMOVED EXTERIOR LIGHT FIXTURE IS NOT BEING REPLACED, PROVIDE WATERPROOF GROMMETS, SEALS OR PLUGS TO COVER EXISTING HOLES IN POLES.
7. VERIFY MANUFACTURERS INSTALLATION GUIDELINES WITH EXISTING FIELD CONDITIONS PRIOR TO BIDDING AND ORDERING NEW LIGHT FIXTURES AND INSTALLATION MATERIAL.
8. MATCH EXISTING PAINTED SURFACES. WHERE REPLACED LUMINAIRE DOES NOT FULLY COVER EXISTING JUNCTION BOX OR PAINTED SURFACE. PROVIDE CUSTOM BACK PLATE WHERE NECESSARY TO COVER ANY FIELD CONDITIONS THAT WOULD ALLOW INTRUSION OF WATER AND CAULK WHERE NECESSARY.
9. COORDINATE EXISTING LIGHTING CONTROL AND REPROGRAM PHOTOCELLS AS NECESSARY TO MEET EXISTING CONTROL SEQUENCES. VERIFY WITH OWNER ANY CHANGES.
10. VERIFY WITH EXISTING CONDITIONS PRIOR TO REMOVING ALL FIXTURES WITH A QUARTZ RESTRIKE. IF THE QUARTZ RESTRIKE IS A SEPARATE CIRCUIT, NOTIFY THE ENGINEERING IMMEDIATELY

TYPICAL NEW CONSTRUCTION:

1. COORDINATE LUMINAIRE IN MECHANICAL ROOMS WITH DUCTWORK, PIPING AND ANY MECHANICAL EQUIPMENT. PROVIDE LUMINAIRE WITH CHAINS OR HANGAR KIT WHERE REQUIRED. BOTTOM OF FIXTURE TO ALIGN WITH BOTTOM OF NEAREST BEAM/TRUSS OR TO BE INSTALLED AT AFF INDICATED ON THE FLOOR PLANS. COORDINATE MOUNTING PRIOR TO ORDERING LUMINAIRES.
2. COORDINATE ALL LUMINAIRE LOCATIONS WITH STRUCTURAL TRUSS AND BEAMS PRIOR TO ROUGH-IN.
3. EXTERIOR/INTERIOR LUMINAIRES SHALL BE TARGETED AND ADJUSTED BY THE CONTRACTOR UNDER THE OBSERVATION AND IN COMPLIANCE WITH RECOMMENDATIONS OF THE ENGINEER. ALL LABOR AND MATERIAL COSTS MADE NECESSARY BY THIS REQUIREMENT SHALL BE INCLUDED.
4. WHERE LUMINAIRE QUANTITIES OR LAYOUT DIFFER BETWEEN ELECTRICAL LIGHTING PLANS AND ARCHITECTURAL REFLECTED CEILING PLANS, HIGHER QUANTITY SHALL TAKE PRECEDENCE. CONTRACTOR SHALL CONFIRM QUANTITY AND LAYOUT WITH DESIGN TEAM.
5. "SW" REFERS TO WALL CONTROL STATION. COORDINATE NUMBER OF BUTTONS FOR CONTROL STATIONS WITH LIGHTING CONTROL MANUFACTURER. CONTROL SHALL BE CAPABLE OF DIMMING UP/DOWN AND SWITCHING ON/OFF FOR MULTIPLE ZONES AS INDICATED AND PER LIGHTING SEQUENCE OF OPERATIONS.

ELECTRICAL GENERAL NOTES:

1. **##-####** INDICATES ELECTRICAL EQUIPMENT DEFINED IN ELECTRICAL SCHEDULES OR SPECIFICATION. REFER TO DRAWINGS CONTAINING ELECTRICAL SCHEDULES. PERMANENT NAMEPLATE SHALL MATCH FINAL EQUIPMENT NOMENCLATURE, NOT ELECTRICAL EQUIPMENT TAG NAME, REFER TO SPECIFICATIONS.
2. **(L###)** INDICATES THE LIGHTING SEQUENCE OF OPERATION FOR THE SPACE. REFER TO THE LIGHTING SEQUENCE OF OPERATION MATRIX ON SHEET E600.
3. "NL" INDICATES LUMINAIRE IS UNSWITCHED FOR NIGHT LIGHT.
4. "EM" INDICATES LUMINAIRE IS SWITCHED/CONTROLLED DURING NORMAL OPERATION AND OPERATES FROM EMERGENCY CIRCUIT UPON LOSS OF POWER.
5. "SE" INDICATES LUMINAIRE IS SWITCHED/CONTROLLED DURING NORMAL OPERATION AND OPERATES FROM EMERGENCY BATTERY UPON LOSS OF POWER.
6. SHADED LUMINAIRE OR DEVICE INDICATES LUMINAIRE OR DEVICE IS CONNECTED TO AN EMERGENCY CIRCUIT.
7. REFER TO SHEET E600 FOR LUMINAIRE SCHEDULE.
8. (Z###) INDICATES THE LIGHTING ZONES FOR THE SPACE. PROVIDE SEPARATE CONTROL OF EACH CONTROLLED ZONE. LUMINAIRES ASSOCIATED WITH THE SAME ZONE SHALL OPERATE TOGETHER WITHIN THE SAME PROGRAMMED SCENE.
9. (SW) INDICATES WALL CONTROLLER. CONTROL STATION SHALL BE CAPABLE OF RAISE/LOWER AND SWITCHING ON/OFF FOR MULTIPLE SCENES AS INDICATED ON SHEETS AND THE LIGHTING SEQUENCE OF OPERATIONS (L##). COORDINATE QUANTITIES OF BUTTONS FOR CONTROL STATIONS WITH LIGHTING CONTROL MANUFACTURER.
10. VACANCY/OCCUPANCY SENSOR LAYOUT: SENSORS ARE SHOWN ON THE PLANS FOR DESIGN INTENT AND MAY NOT REPRESENT EVERY DEVICE. PROVIDE MANUFACTURER SPECIFIC FLOOR PLAN LAYOUTS SHOWING LOCATION, ORIENTATION, AND COVERAGE AREA OF EACH CONTROL DEVICE, SENSOR, AND CONTROLLER/INTERFACE. AREAS REQUIRING MULTIPLE SENSOR DEVICES FOR APPROPRIATE COVERAGE, SUBMIT SPECIFIC MANUFACTURER-APPROVED SENSOR LAYOUT AS AN OVERLAY DIRECTLY ON THE PROJECT DRAWINGS, EITHER IN PRINT OR APPROVED ELECTRONIC FORM.

LUMINAIRE KEY:

LUMINAIRE — F1 = FIXTURE TAG; 1 = CIRCUIT NUMBER; a = SWITCH DESIGNATION; NL = SUBSCRIPT (IF APPLICABLE); Z = ZONE DESIGNATION

*IF LABEL IS ORIENTED HORIZONTALLY A SLASH WILL SEPARATE THIS INFORMATION. EX: F1 / 1 / a / NL

DEVICE KEY:

DEVICE — A = MOUNTING (IF APPLICABLE); 1 = CIRCUIT NUMBER

*IF LABEL IS ORIENTED HORIZONTALLY A SLASH WILL SEPARATE THIS INFORMATION. EX: A / 1

ELECTRICAL MOUNTING SUBSCRIPT KEY:

- A — MOUNT AT +6" TO CENTERLINE ABOVE COUNTER OR BACKSPLASH
- C — MOUNT AT CEILING
- H — MOUNT ORIENTED HORIZONTALLY

ELECTRICAL INSTALLATION NOTES:

1. THE COMPLETE INSTALLATION SHALL BE IN ACCORDANCE WITH THE ADA STANDARDS FOR ACCESSIBLE DESIGN. REFER TO THE ADA GUIDELINES FOR ALL CONFIGURATION DETAILS ON THIS PAGE FOR ADDITIONAL INFORMATION.
2. CIRCUIT NUMBERS ARE SHOWN FOR CIRCUIT IDENTIFICATION. CIRCUITING SHALL AGREE WITH NUMBERING ON THE PANEL PROVIDED. COMMON NEUTRALS MAY NOT BE USED FOR BRANCH CIRCUITS. BALANCE THE LOAD ON PANEL AS EVENLY AS POSSIBLE BETWEEN EACH PHASE.
3. FLUSH MOUNT ALL LIGHTING CONTROL DEVICES AT +42" FROM FLOOR (CENTERLINE DIMENSION), EXCEPT WHERE OTHERWISE NOTED. DEVICES MAY BE SURFACE MOUNTED WHEN CONDUIT IS SPECIFIED EXPOSED.
4. FLUSH MOUNT ALL DUPLEX RECEPTACLES AT +18" FROM FLOOR (CENTERLINE DIMENSION), EXCEPT WHERE OTHERWISE NOTED. RECEPTACLES AND OUTLETS MAY BE SURFACE MOUNTED WHEN CONDUIT IS SPECIFIED EXPOSED.
5. ALL MATERIALS USED TO SEAL PENETRATIONS OF FIRE RATED WALLS AND FLOORS SHALL BE TESTED AND CERTIFIED AS A SYSTEM PER ASTM E814 STANDARDS FOR FIRE TESTS OF THROUGH-PENETRATION FIRESTOPS. REFER TO 26 05 03 FOR ADDITIONAL INFORMATION AND REQUIREMENTS SPECIFIC TO FIRESTOPPING.
6. CONTRACTOR SHALL COORDINATE THE LOCATION OF ALL CEILING MOUNTED DEVICES AND EQUIPMENT WITH LUMINAIRES, SPRINKLER, AND CEILING DIFFUSERS. CENTER ALL DEVICES IN CEILING TILE PATTERN. SMOKE DETECTORS AND OCCUPANCY/VACANCY SENSORS SHALL BE LOCATED NO CLOSER THAN 3 FEET TO AN AIR SUPPLY DIFFUSER OR RETURN GRILLE.
7. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL OPENINGS REQUIRED IN WALLS. ALL OPENINGS SHALL BE REPAIRED TO MATCH EXISTING BY A QUALIFIED CONTRACTOR AT THE EXPENSE OF THIS CONTRACTOR. ALL CONDUITS THROUGH WALLS SHALL BE GROUTED OR SEALED INTO OPENINGS.
8. ALL WELDING SHALL BE ACCORDING TO AMERICAN WELDING SOCIETY STANDARDS. CONTRACTOR SHALL FURNISH TO THE ARCHITECT/ENGINEER CERTIFICATES QUALIFYING EACH WELDER, PRIOR TO START OF WORK. THE ARCHITECT/ENGINEER RESERVES THE RIGHT TO REQUIRE QUALIFYING DEMONSTRATION, AT THE CONTRACTOR'S EXPENSE, OF ANY WELDERS ASSIGNED TO THE JOB.
9. EACH CONTRACTOR IS RESPONSIBLE FOR DAMAGE CAUSED BY THEIR ACTIONS TO THE WALLS, FLOORS, CEILINGS, AND ROOFS. THE CONTRACTOR WHOSE WORK CAUSES DAMAGE IS RESPONSIBLE FOR PATCHING TO MATCH ORIGINAL CONSTRUCTION, FIRE RATING, AND FINISH.
10. REFER TO ARCHITECTURAL REFLECTED CEILING PLAN, ELECTRICAL, AUDIO/VISUAL, AND OTHER ELECTRICAL PLANS FOR EXACT LOCATIONS OF ALL CEILING MOUNTED DEVICES, OTHER THAN SPRINKLERS.
11. ELECTRICAL IDENTIFICATION. REFER TO SPECIFICATION SECTION 26 05 53 FOR COLOR/LABEL REQUIREMENTS FOR CONDUIT, BOX, CABLE/WIRE, AND EQUIPMENT.

ELECTRICAL SHEET INDEX

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E100B	BASEMENT DEMOLITION - ELECTRICAL - AREA B
E100C	BASEMENT DEMOLITION - ELECTRICAL - AREA C
E100D	BASEMENT DEMOLITION - ELECTRICAL - AREA D
E100E	BASEMENT DEMOLITION - ELECTRICAL - AREA E
E101A	FIRST FLOOR DEMOLITION - ELECTRICAL - AREA A
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E200A	BASEMENT - ELECTRICAL - AREA A
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E201A	FIRST FLOOR - ELECTRICAL - AREA A
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E202A	SECOND FLOOR - ELECTRICAL - AREA A
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E602	ELECTRICA

SHEET NOTES:

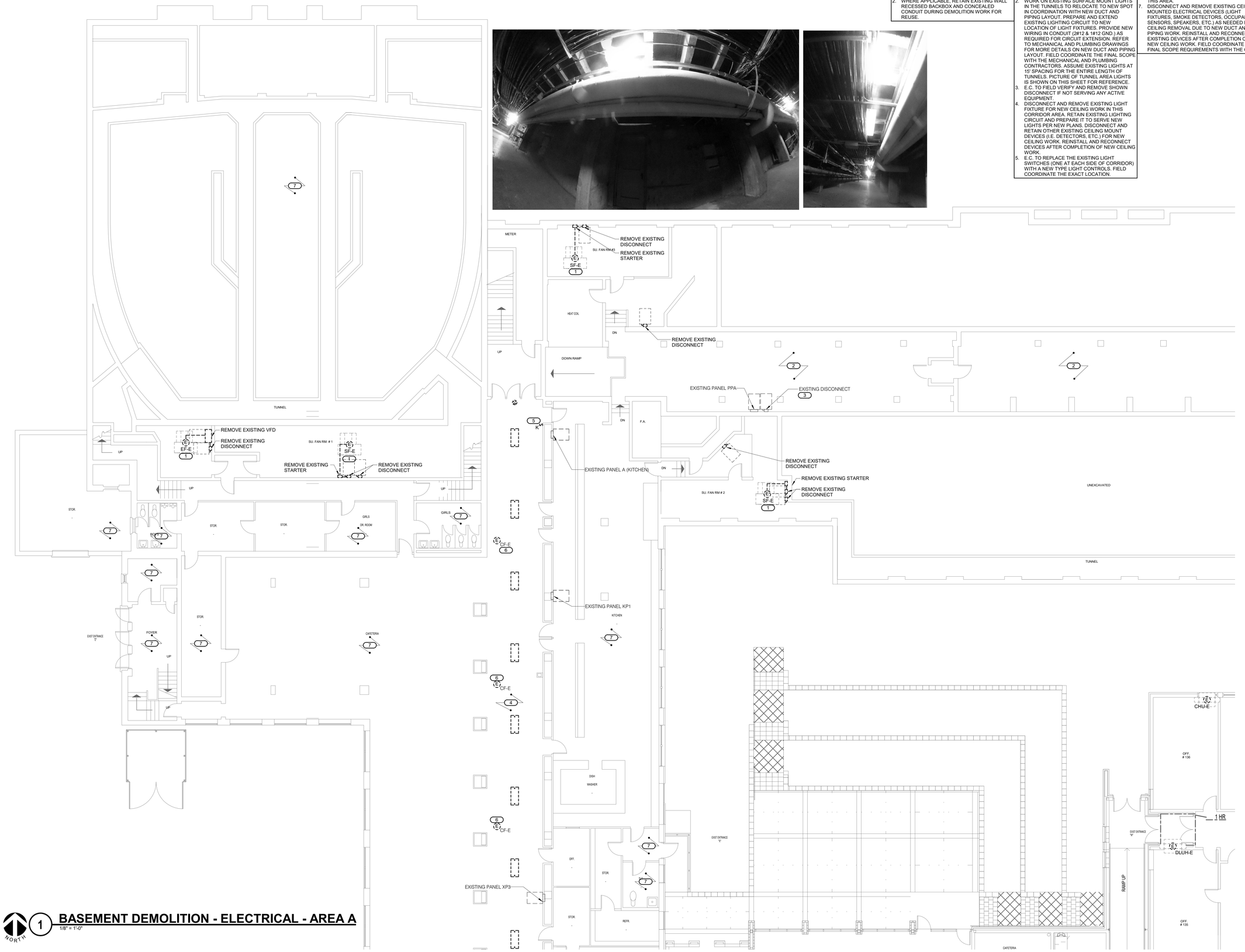
1. UNLESS NOTED OTHERWISE, DISCONNECT AND REMOVE EXISTING CEILING MOUNTED ELECTRICAL DEVICES (LIGHT FIXTURES, SMOKE DETECTORS, OCCUPANCY SENSORS, SPEAKERS, ETC.) AS NEEDED FOR CEILING REMOVAL DUE TO NEW DUCT AND PIPING WORK. REINSTALL AND RECONNECT EXISTING DEVICES AFTER COMPLETION OF NEW CEILING WORK. FIELD COORDINATE THE FINAL SCOPE REQUIREMENTS WITH THE G.C.
2. WHERE APPLICABLE, RETAIN EXISTING WALL RECESSED BACKBOX AND CONCEALED CONDUIT DURING DEMOLITION WORK FOR REUSE.

KEYNOTES: (#)

1. DISCONNECT POWER FROM EXISTING MECHANICAL UNIT. REMOVE ALL ASSOCIATED ELECTRICAL INFRASTRUCTURE (DISCONNECT STARTER, BACKBOXES ETC.). REMOVE ASSOCIATED WIRING & CONDUIT BACK TO SERVING PANEL AND MARK THE BREAKER AS "SPARE". MAINTAIN CONTINUITY OF POWER TO ALL EXISTING REMAIN DEVICES CONNECTED TO THIS CIRCUIT. FIELD VERIFY THE REQUIREMENTS.
2. WORK ON EXISTING SURFACE MOUNT LIGHTS IN THE TUNNELS TO RELOCATE TO NEW SPOT IN COORDINATION WITH NEW DUCT AND PIPING LAYOUT. PREPARE AND EXTEND EXISTING LIGHTING CIRCUIT TO NEW LOCATION OF LIGHT FIXTURES. PROVIDE NEW WIRING IN CONDUIT (2#12 & 1#12 GND.) AS REQUIRED FOR CIRCUIT EXTENSION. REFER TO MECHANICAL AND PLUMBING DRAWINGS FOR MORE DETAILS ON NEW DUCT AND PIPING LAYOUT. FIELD COORDINATE THE FINAL SCOPE WITH THE MECHANICAL AND PLUMBING CONTRACTORS. ASSUME EXISTING LIGHTS AT 15' SPACING FOR THE ENTIRE LENGTH OF TUNNELS. PICTURE OF TUNNEL AREA LIGHTS IS SHOWN ON THIS SHEET FOR REFERENCE.
3. E.C. TO FIELD VERIFY AND REMOVE SHOWN DISCONNECT IF NOT SERVING ANY ACTIVE EQUIPMENT.
4. DISCONNECT AND REMOVE EXISTING LIGHT FIXTURE FOR NEW CEILING WORK IN THIS CORRIDOR AREA. RETAIN EXISTING LIGHTING CIRCUIT AND PREPARE IT TO SERVE NEW LIGHTS PER NEW PLANS. DISCONNECT AND RETAIN OTHER EXISTING CEILING MOUNT DEVICES (I.E. DETECTORS, ETC.) FOR NEW CEILING WORK. REINSTALL AND RECONNECT DEVICES AFTER COMPLETION OF NEW CEILING WORK.
5. E.C. TO REPLACE THE EXISTING LIGHT SWITCHES (ONE AT EACH SIDE OF CORRIDOR) WITH A NEW TYPE LIGHT CONTROLS. FIELD COORDINATE THE EXACT LOCATION.

KEYNOTES: (#)

6. DISCONNECT POWER FROM EXISTING MECHANICAL UNIT AND ASSOCIATED DISCONNECT DEVICE TO REUSE AT NEW LOCATION PER NEW PLANS. RETAIN EXISTING BRANCH CIRCUIT AND PREPARE IT TO SERVE THE NEW EQUIPMENT AT NEW LOCATION AFTER COMPLETION OF NEW CEILING WORK IN THIS AREA. REMOVE EXISTING BRANCH CIRCUIT (WIRING AND EXPOSED CONDUIT) FROM CEILING FOR NEW CEILING WORK IN THIS AREA.
7. DISCONNECT AND REMOVE EXISTING CEILING MOUNTED ELECTRICAL DEVICES (LIGHT FIXTURES, SMOKE DETECTORS, OCCUPANCY SENSORS, SPEAKERS, ETC.) AS NEEDED FOR CEILING REMOVAL DUE TO NEW DUCT AND PIPING WORK. REINSTALL AND RECONNECT EXISTING DEVICES AFTER COMPLETION OF NEW CEILING WORK. FIELD COORDINATE THE FINAL SCOPE REQUIREMENTS WITH THE G.C.



1 BASEMENT DEMOLITION - ELECTRICAL - AREA A

1/8" = 1'-0"

NORTH

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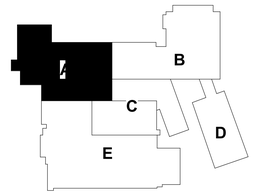
KEY PLAN



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REFERENCE SCALE IN INCHES

0 1 2

REVISIONS

No.	Date	Revision / Issue

SHEET INFORMATION

Issue	**BID DOCUMENTS**
Date	**JANUARY 28, 2022**
Job Number	**21002885.04**
Drawn	**Author**
Checked	**Checker**
Approved	**Approver**

SHEET TITLE

BASEMENT DEMOLITION - ELECTRICAL - AREA A

SCALE

Scale: **As indicated**

SHEET NUMBER

E100A

21002885.04 1/28/2022 9:06:08 PM ESSER HVAC Improvements - East High School

SHEET NOTES:

1. UNLESS NOTED OTHERWISE, DISCONNECT AND REMOVE EXISTING CEILING MOUNTED ELECTRICAL DEVICES (LIGHT FIXTURES, SMOKE DETECTORS, OCCUPANCY SENSORS, SPEAKERS, ETC.) AS NEEDED FOR CEILING REMOVAL DUE TO NEW DUCT AND PIPING WORK. REINSTALL AND RECONNECT EXISTING DEVICES AFTER COMPLETION OF NEW CEILING WORK. FIELD COORDINATE THE FINAL SCOPE REQUIREMENTS WITH THE G.C.
2. WHERE APPLICABLE, RETAIN EXISTING WALL RECESSED BACKBOX AND CONCEALED CONDUIT DURING DEMOLITION WORK FOR REUSE.

KEYNOTES: (#)

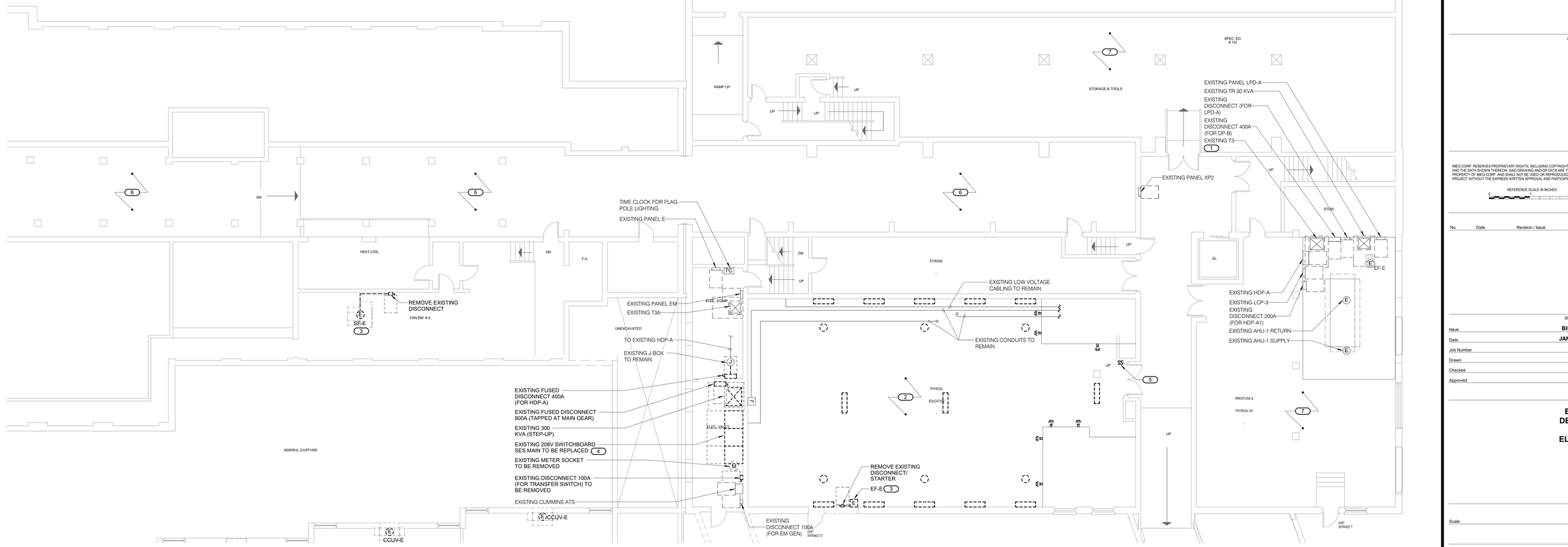
1. FIELD VERIFY THE EXACT LOCATION.
2. RETAIN EXISTING LIGHTING CIRCUIT AND PREPARE IT TO SERVE NEW LIGHTS IN THE SPACE.
3. DISCONNECT POWER FROM EXISTING MECHANICAL UNIT. REMOVE ALL ASSOCIATED ELECTRICAL INFRASTRUCTURE (DISCONNECT STARTER, BACKBOXES ETC.). REMOVE ASSOCIATED WIRING & CONDUIT BACK TO SERVING PANEL AND MARK THE BREAKER AS "SPARE". MAINTAIN CONTINUITY OF POWER TO ALL EXISTING REMAIN DEVICES CONNECTED TO THIS CIRCUIT. FIELD VERIFY THE REQUIREMENTS.

KEYNOTES: (#)

4. EXISTING SWITCHBOARD TO BE REPLACED WITH NEW SWITCHBOARD. RETAIN ALL EXISTING REMAINING FEEDERS AND PREPARE THEM AS REQUIRED TO RE-CONNECT TO NEW SWITCHBOARD.
5. REMOVE EXISTING DEVICE AND ASSOCIATED WIRING. RETAIN EXISTING WALL RECESSED BACKBOX AND CONCEALED CONDUIT TO INSTALL NEW DEVICE AND NEW WIRING.

KEYNOTES: (#)

6. WORK ON EXISTING SURFACE MOUNT LIGHTS IN THE TUNNELS TO RELOCATE TO NEW SPOT IN COORDINATION WITH NEW DUCT AND PIPING LAYOUT. PREPARE AND EXTEND EXISTING LIGHTING CIRCUIT TO NEW LOCATION OF LIGHT FIXTURES. PROVIDE NEW WIRING IN CONDUIT (2#12 & 1#12GND.) AS REQUIRED FOR CIRCUIT EXTENSION. REFER TO MECHANICAL AND PLUMBING DRAWINGS FOR MORE DETAILS ON NEW DUCT AND PIPING LAYOUT. FIELD COORDINATE THE FINAL SCOPE WITH THE MECHANICAL AND PLUMBING CONTRACTORS. ASSUME EXISTING LIGHTS AT 15' SPACING FOR THE ENTIRE LENGTH OF TUNNELS. PICTURE OF TUNNEL AREA LIGHTS IS SHOWN ON THIS SHEET FOR REFERENCE.
7. DISCONNECT AND REMOVE EXISTING CEILING MOUNTED ELECTRICAL DEVICES (LIGHT FIXTURES, SMOKE DETECTORS, OCCUPANCY SENSORS, SPEAKERS, ETC.) AS NEEDED FOR CEILING REMOVAL DUE TO NEW DUCT AND PIPING WORK. REINSTALL AND RECONNECT EXISTING DEVICES AFTER COMPLETION OF NEW CEILING WORK. FIELD COORDINATE THE FINAL SCOPE REQUIREMENTS WITH THE G.C.



1 BASEMENT DEMOLITION - ELECTRICAL - AREA B

1/8" = 1'-0"

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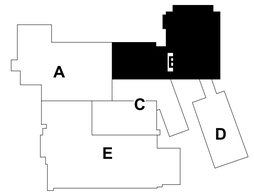
KEY PLAN



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REVISIONS

No.	Date	Revision / Issue

SHEET INFORMATION

Issue	**BID DOCUMENTS**
Date	**JANUARY 28, 2022**
Job Number	**21002885.04**
Drawn	**Author**
Checked	**Checker**
Approved	**Approver**

SHEET TITLE

BASEMENT DEMOLITION - ELECTRICAL - AREA B

SCALE

Scale: **As indicated**

SHEET NUMBER

E100B

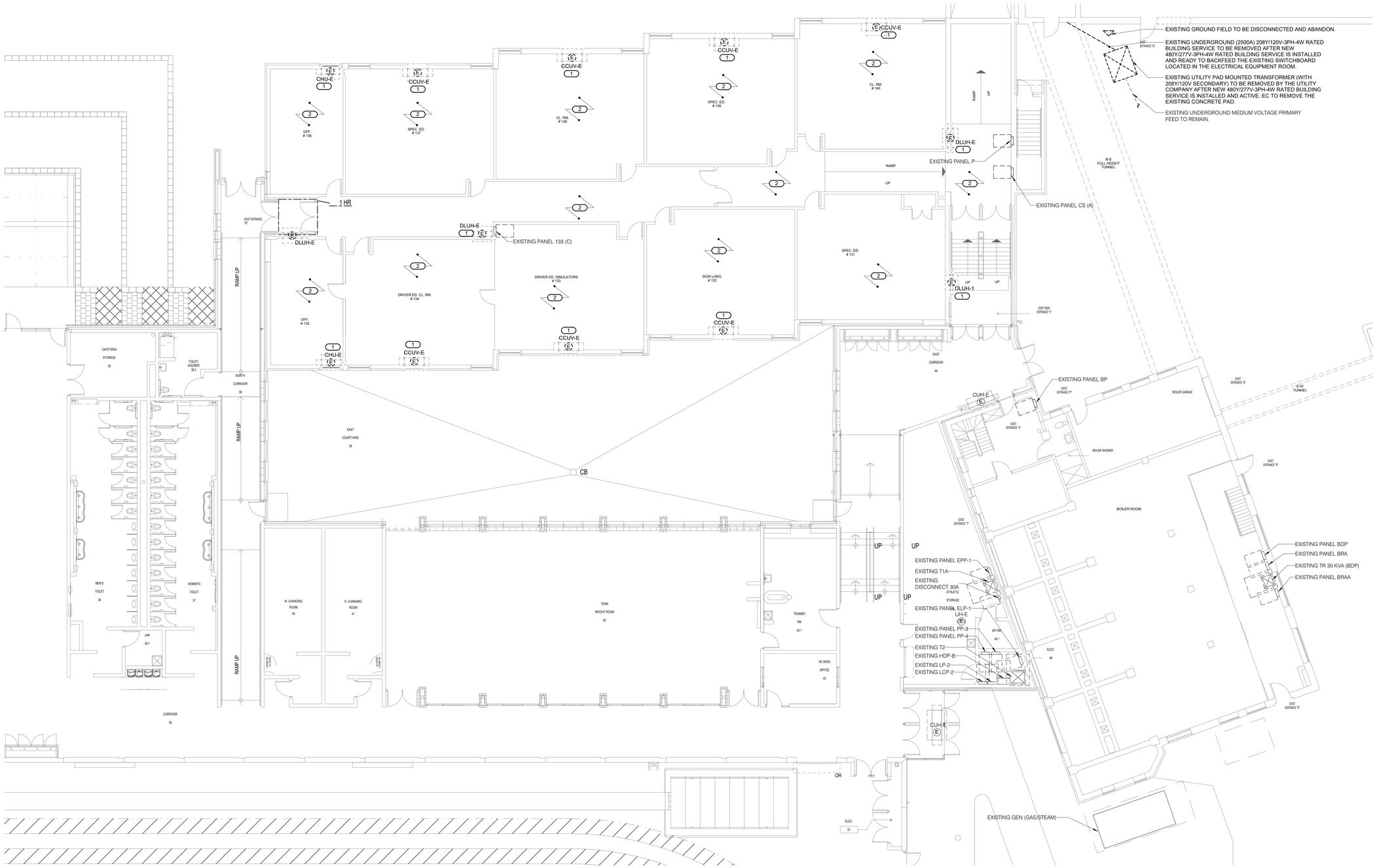
21002885.04 1/28/2022 9:06:08 PM ESSER HVAC Improvements - East High School

SHEET NOTES:

1. UNLESS NOTED OTHERWISE, DISCONNECT AND REMOVE EXISTING CEILING MOUNTED ELECTRICAL DEVICES (LIGHT FIXTURES, SMOKE DETECTORS, OCCUPANCY SENSORS, SPEAKERS, ETC.) AS NEEDED FOR CEILING REMOVAL DUE TO NEW DUCT AND PIPING WORK. REINSTALL AND RECONNECT EXISTING DEVICES AFTER COMPLETION OF NEW CEILING WORK. FIELD COORDINATE THE FINAL SCOPE REQUIREMENTS WITH THE G.C.
2. WHERE APPLICABLE, RETAIN EXISTING WALL RECESSED BACKBOX AND CONCEALED CONDUIT DURING DEMOLITION WORK FOR REUSE.

KEYNOTES: #

1. BASE BID SCOPE - EXISTING UNIT AND ASSOCIATED BRANCH CIRCUITS TO REMAIN AS IS.
   ALTERNATE BID #2 SCOPE - DISCONNECT POWER FROM EXISTING MECHANICAL UNIT. REMOVE ALL ASSOCIATED ELECTRICAL INFRASTRUCTURE (DISCONNECT STARTER, BACKBOXES ETC.). REMOVE ASSOCIATED WIRING & CONDUIT BACK TO SERVING PANEL AND MARK THE BREAKER AS "SPARE". MAINTAIN CONTINUITY OF POWER TO ALL EXISTING REMAIN DEVICES CONNECTED TO THIS CIRCUIT. FIELD VERIFY THE REQUIREMENTS.
2. BASE BID SCOPE - EXISTING TO REMAIN. ALTERNATE BID #2 SCOPE - DISCONNECT AND REMOVE EXISTING CEILING MOUNTED ELECTRICAL DEVICES (LIGHT FIXTURES, SMOKE DETECTORS, OCCUPANCY SENSORS, SPEAKERS, ETC.) AS NEEDED FOR CEILING REMOVAL DUE TO NEW DUCT AND PIPING WORK. REINSTALL AND RECONNECT EXISTING DEVICES AFTER COMPLETION OF NEW CEILING WORK. FIELD COORDINATE THE FINAL SCOPE REQUIREMENTS WITH THE G.C.



1 BASEMENT DEMOLITION - ELECTRICAL - AREA C

1/8" = 1'-0"

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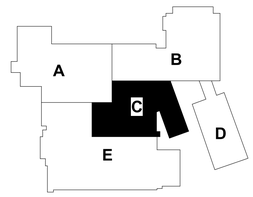
KEY PLAN



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Checked	**Checker**
Approved	**Approver**

SHEET TITLE

BASEMENT DEMOLITION - ELECTRICAL - AREA C

SCALE

Scale: **As indicated**

SHEET NUMBER

E100C

21002885.04 1/28/2022 9:06:11 PM ESSER HVAC Improvements - East High School

SHEET NOTES:

1. UNLESS NOTED OTHERWISE, DISCONNECT AND REMOVE EXISTING CEILING MOUNTED ELECTRICAL DEVICES (LIGHT FIXTURES, SMOKE DETECTORS, OCCUPANCY SENSORS, SPEAKERS, ETC.) AS NEEDED FOR CEILING REMOVAL DUE TO NEW DUCT AND PIPING WORK. REINSTALL AND RECONNECT EXISTING DEVICES AFTER COMPLETION OF NEW CEILING WORK. FIELD COORDINATE THE FINAL SCOPE REQUIREMENTS WITH THE G.C.
2. WHERE APPLICABLE, RETAIN EXISTING WALL RECESSED BACKBOX AND CONCEALED CONDUIT DURING DEMOLITION WORK FOR REUSE.

KEYNOTES: (#)

1. DISCONNECT POWER FROM EXISTING MECHANICAL UNIT. REMOVE ALL ASSOCIATED ELECTRICAL INFRASTRUCTURE (DISCONNECT STARTER, BACKBOXES ETC.). REMOVE ASSOCIATED WIRING & CONDUIT BACK TO SERVING PANEL AND MARK THE BREAKER AS "SPARE". MAINTAIN CONTINUITY OF POWER TO ALL EXISTING REMAIN DEVICES CONNECTED TO THIS CIRCUIT. FIELD VERIFY THE REQUIREMENTS.
2. RETAIN EXISTING LIGHTING CIRCUIT AND PREPARE IT TO SERVE NEW LIGHTS IN THE SPACE.
3. REMOVE EXISTING DEVICE AND ASSOCIATED WIRING. RETAIN EXISTING WALL RECESSED BACKBOX AND CONCEALED CONDUIT TO INSTALL NEW DEVICE AND NEW WIRING.
4. DISCONNECT AND REMOVE EXISTING CEILING MOUNTED ELECTRICAL DEVICES (LIGHT FIXTURES, SMOKE DETECTORS, OCCUPANCY SENSORS, SPEAKERS, ETC.) AS NEEDED FOR CEILING REMOVAL DUE TO NEW DUCT AND PIPING WORK. REINSTALL AND RECONNECT EXISTING DEVICES AFTER COMPLETION OF NEW CEILING WORK. FIELD COORDINATE THE FINAL SCOPE REQUIREMENTS WITH THE G.C.

NORTH

1 BASEMENT DEMOLITION - ELECTRICAL - AREA D

1/8" = 1'-0"

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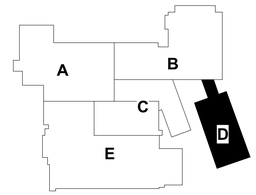
KEY PLAN



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Approved	**Approver**

SHEET TITLE

BASEMENT DEMOLITION - ELECTRICAL - AREA D

SCALE

Scale: **As indicated**

SHEET NUMBER

E100D

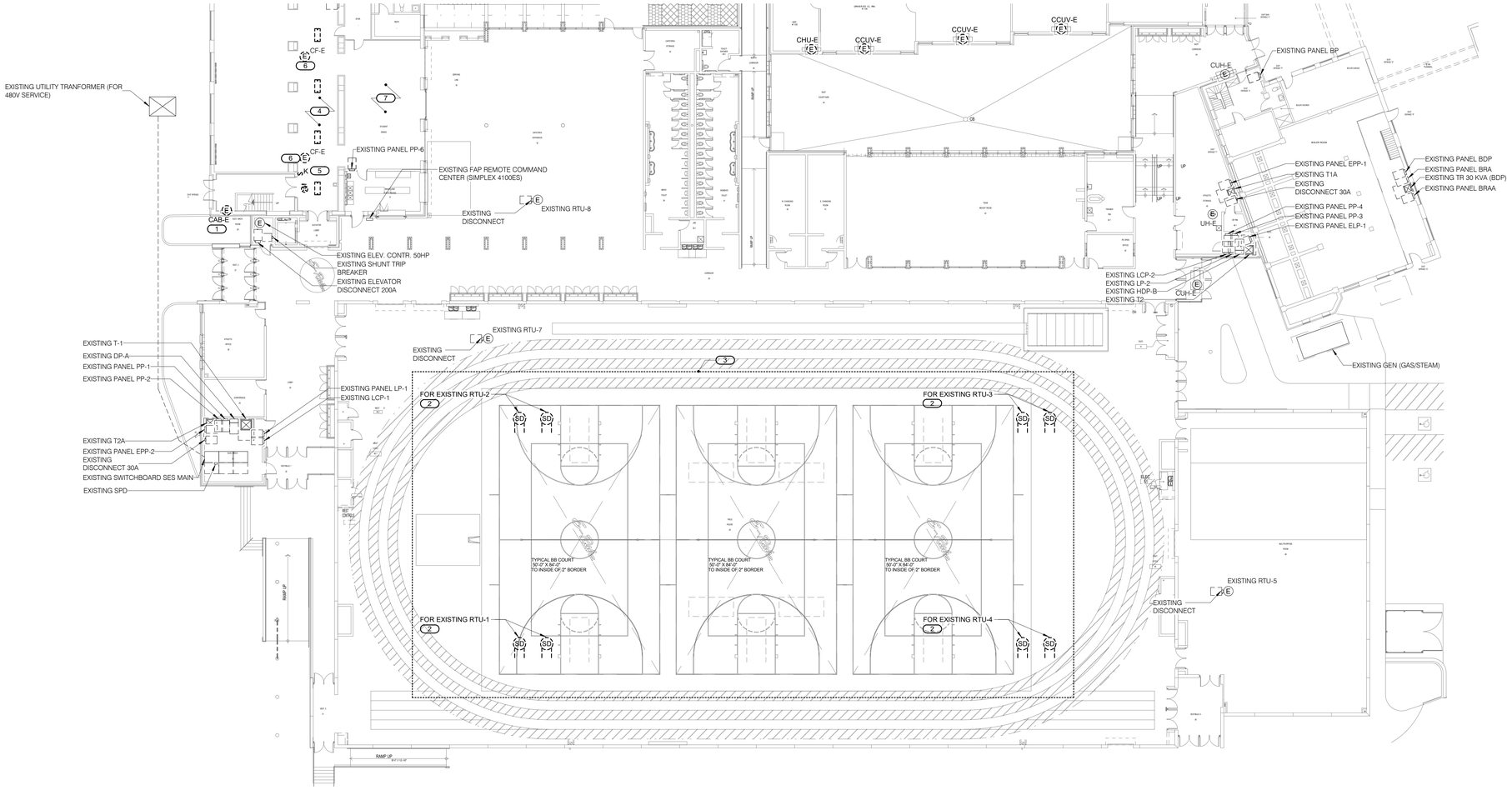
21002885.04 1/28/2022 9:06:13 PM ESSER HVAC Improvements - East High School

SHEET NOTES:

1. UNLESS NOTED OTHERWISE, DISCONNECT AND REMOVE EXISTING CEILING MOUNTED ELECTRICAL DEVICES (LIGHT FIXTURES, SMOKE DETECTORS, OCCUPANCY SENSORS, SPEAKERS, ETC.) AS NEEDED FOR CEILING REMOVAL DUE TO NEW DUCT WORK. REINSTALL AND RECONNECT EXISTING DEVICES AFTER COMPLETION OF NEW CEILING WORK. FIELD COORDINATE THE FINAL SCOPE REQUIREMENTS WITH THE G.C.
2. WHERE APPLICABLE, RETAIN EXISTING WALL RECESSED BACKBOX AND CONCEALED CONDUIT DURING DEMOLITION WORK FOR REUSE.

KEYNOTES: (#)

1. DISCONNECT POWER FROM EXISTING MECHANICAL UNIT. REMOVE ALL ASSOCIATED ELECTRICAL INFRASTRUCTURE (DISCONNECT STARTER, BACKBOXES ETC.). REMOVE ASSOCIATED WIRING & CONDUIT BACK TO SERVING PANEL AND MARK THE BREAKER AS "SPARE". MAINTAIN CONTINUITY OF POWER TO ALL EXISTING REMAIN DEVICES CONNECTED TO THIS CIRCUIT. FIELD VERIFY THE REQUIREMENTS.
2. DISCONNECT AND RETAIN EXISTING FIRE ALARM DEVICE TO REUSE AT NEW LOCATION. RETAIN EXISTING FIRE ALARM DETECTION WIRING AND PREPARE IT TO SERVE AT NEW LOCATION PER NEW PLAN.
3. BASE BID SCOPE - EXISTING TO REMAIN. ALTERNATE BID #1 SCOPE - THIS WORK TO BE COMPLETED UNDER ALTERNATE BID#1 CONTRACT.
4. DISCONNECT AND REMOVE EXISTING LIGHT FIXTURE FOR NEW CEILING WORK IN THIS CORRIDOR AREA. RETAIN EXISTING LIGHTING CIRCUIT AND PREPARE IT TO SERVE NEW LIGHTS PER NEW PLANS. DISCONNECT AND RETAIN OTHER EXISTING CEILING MOUNT DEVICES (I.E. DETECTORS, ETC.) FOR NEW CEILING WORK. REINSTALL AND RECONNECT DEVICES AFTER COMPLETION OF NEW CEILING WORK.
5. E.C. TO REPLACE THE EXISTING LIGHT SWITCHES (ONE AT EACH SIDE OF CORRIDOR) WITH A NEW TYPE LIGHT CONTROLS. FIELD COORDINATE THE EXACT LOCATION.
6. DISCONNECT POWER FROM EXISTING MECHANICAL UNIT AND ASSOCIATED DISCONNECT DEVICE TO REUSE AT NEW LOCATION PER NEW PLANS. RETAIN EXISTING BRANCH CIRCUIT AND PREPARE IT TO SERVE THE NEW EQUIPMENT AT NEW LOCATION AFTER COMPLETION OF NEW CEILING WORK IN THIS AREA. REMOVE EXISTING BRANCH CIRCUIT (WIRING AND EXPOSED CONDUIT) FROM CEILING FOR NEW CEILING WORK IN THIS AREA.
7. DISCONNECT AND REMOVE EXISTING CEILING MOUNTED ELECTRICAL DEVICES (LIGHT FIXTURES, SMOKE DETECTORS, OCCUPANCY SENSORS, SPEAKERS, ETC.) AS NEEDED FOR CEILING REMOVAL DUE TO NEW DUCT AND PIPING WORK. REINSTALL AND RECONNECT EXISTING DEVICES AFTER COMPLETION OF NEW CEILING WORK. FIELD COORDINATE THE FINAL SCOPE REQUIREMENTS WITH THE G.C.



1 BASEMENT DEMOLITION - ELECTRICAL - AREA E

1/16" = 1'-0"

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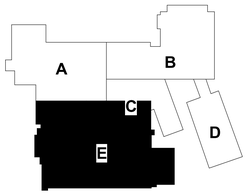

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REVISIONS

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Issue	**BID DOCUMENTS**
Date	**JANUARY 28, 2022**
Job Number	**21002885.04**
Drawn	**Author**
Checked	**Checker**
Approved	**Approver**

SHEET TITLE

BASEMENT DEMOLITION - ELECTRICAL - AREA E

SCALE

Scale: **As indicated**

SHEET NUMBER

E100E

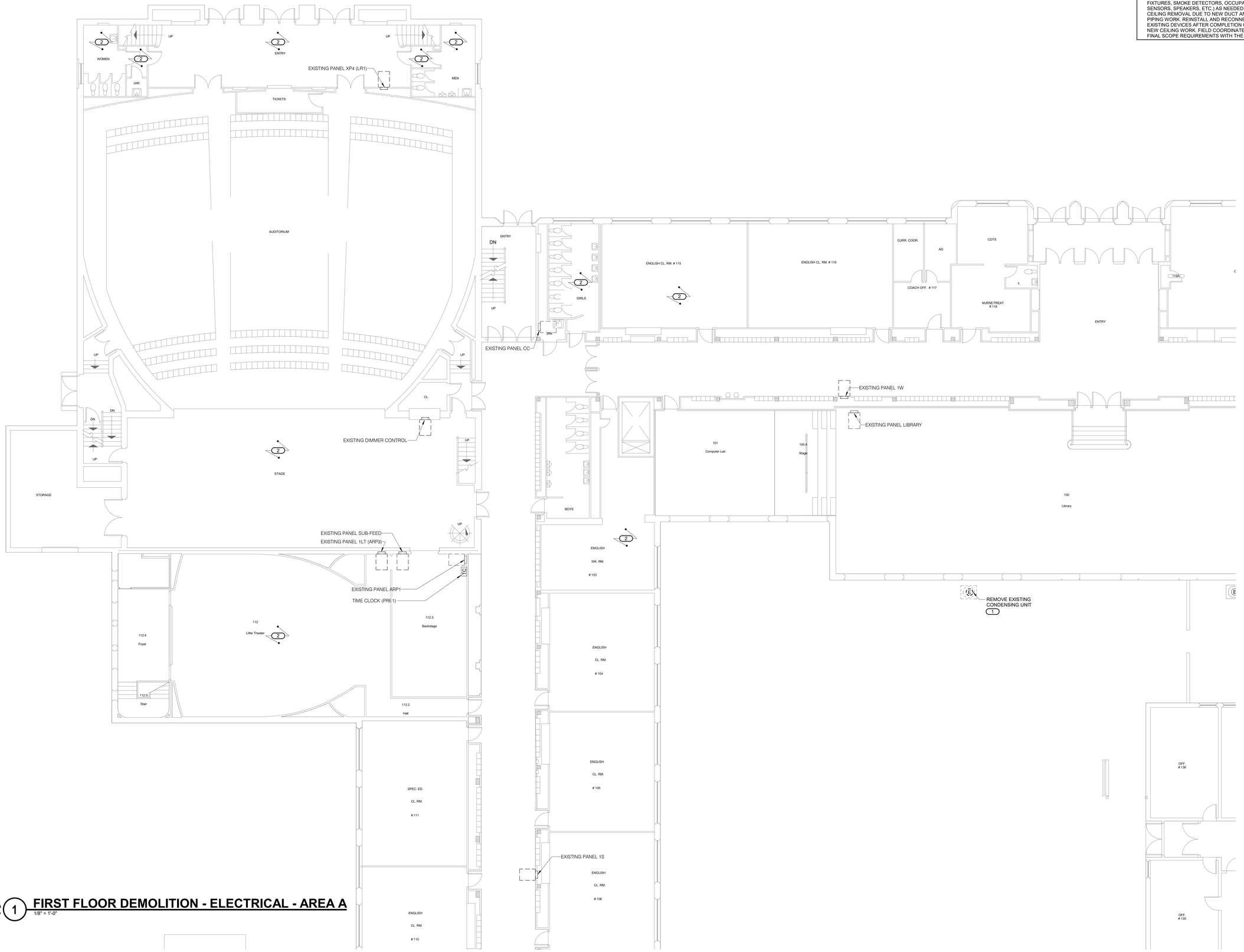
21002885.04 1/28/2022 9:06:17 PM ESSER HVAC Improvements - East High School

SHEET NOTES:

1. UNLESS NOTED OTHERWISE, DISCONNECT AND REMOVE EXISTING CEILING MOUNTED ELECTRICAL DEVICES (LIGHT FIXTURES, SMOKE DETECTORS, OCCUPANCY SENSORS, SPEAKERS, ETC.) AS NEEDED FOR CEILING REMOVAL DUE TO NEW DUCT AND PIPING WORK. REINSTALL AND RECONNECT EXISTING DEVICES AFTER COMPLETION OF NEW CEILING WORK. FIELD COORDINATE THE FINAL SCOPE REQUIREMENTS WITH THE G.C.

KEYNOTES: (#)

1. DISCONNECT POWER FROM EXISTING MECHANICAL UNIT. REMOVE ALL ASSOCIATED ELECTRICAL INFRASTRUCTURE (DISCONNECT STARTER, BACKBOXES ETC.). REMOVE ASSOCIATED WIRING & CONDUIT BACK TO SERVING PANEL AND MARK THE BREAKER AS "SPARE". MAINTAIN CONTINUITY OF POWER TO ALL EXISTING REMAIN DEVICES CONNECTED TO THIS CIRCUIT. FIELD VERIFY THE REQUIREMENTS.
2. DISCONNECT AND REMOVE EXISTING CEILING MOUNTED ELECTRICAL DEVICES (LIGHT FIXTURES, SMOKE DETECTORS, OCCUPANCY SENSORS, SPEAKERS, ETC.) AS NEEDED FOR CEILING REMOVAL DUE TO NEW DUCT AND PIPING WORK. REINSTALL AND RECONNECT EXISTING DEVICES AFTER COMPLETION OF NEW CEILING WORK. FIELD COORDINATE THE FINAL SCOPE REQUIREMENTS WITH THE G.C.



NORTH

1 FIRST FLOOR DEMOLITION - ELECTRICAL - AREA A

1/8" = 1'-0"

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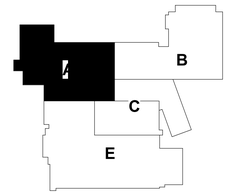

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Drawn	**Author**
Checked	**Checker**
Approved	**Approver**

SHEET TITLE

FIRST FLOOR DEMOLITION - ELECTRICAL - AREA A

SCALE

Scale: **As indicated**

SHEET NUMBER

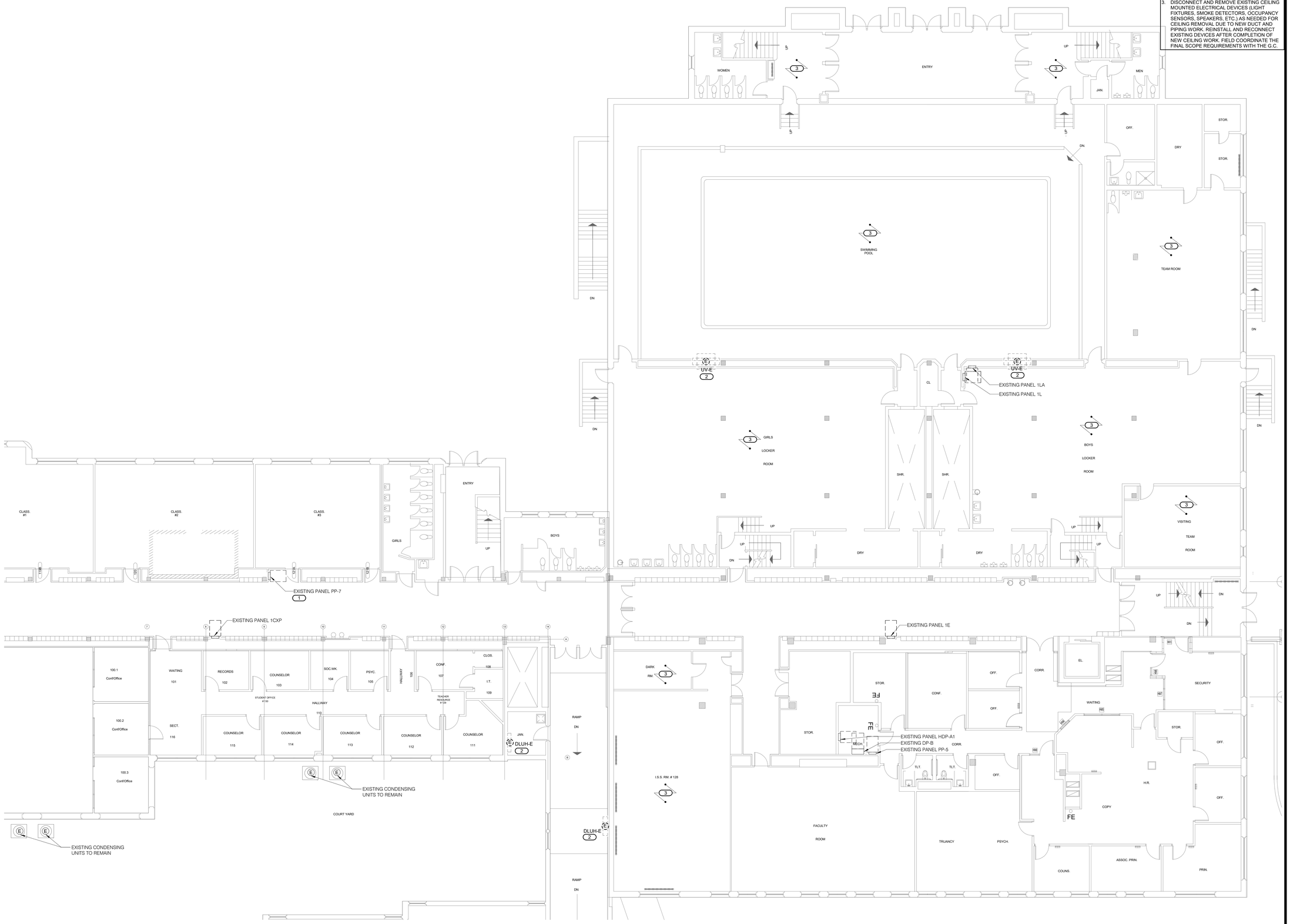
E101A

SHEET NOTES:

1. UNLESS NOTED OTHERWISE, DISCONNECT AND REMOVE EXISTING CEILING MOUNTED ELECTRICAL DEVICES (LIGHT FIXTURES, SMOKE DETECTORS, OCCUPANCY SENSORS, SPEAKERS, ETC.) AS NEEDED FOR CEILING REMOVAL DUE TO NEW DUCT AND PIPING WORK. REINSTALL AND RECONNECT EXISTING DEVICES AFTER COMPLETION OF NEW CEILING WORK. FIELD COORDINATE THE FINAL SCOPE REQUIREMENTS WITH THE G.C.

KEYNOTES: (#)

1. FIELD VERIFY THE EXACT LOCATION.
2. DISCONNECT POWER FROM EXISTING MECHANICAL UNIT. REMOVE ALL ASSOCIATED ELECTRICAL INFRASTRUCTURE (DISCONNECT STARTER, BACKBOXES ETC.). REMOVE ASSOCIATED WIRING & CONDUIT BACK TO SERVING PANEL AND MARK THE BREAKER AS "SPARE". MAINTAIN CONTINUITY OF POWER TO ALL EXISTING REMAIN DEVICES CONNECTED TO THIS CIRCUIT. FIELD VERIFY THE REQUIREMENTS.
3. DISCONNECT AND REMOVE EXISTING CEILING MOUNTED ELECTRICAL DEVICES (LIGHT FIXTURES, SMOKE DETECTORS, OCCUPANCY SENSORS, SPEAKERS, ETC.) AS NEEDED FOR CEILING REMOVAL DUE TO NEW DUCT AND PIPING WORK. REINSTALL AND RECONNECT EXISTING DEVICES AFTER COMPLETION OF NEW CEILING WORK. FIELD COORDINATE THE FINAL SCOPE REQUIREMENTS WITH THE G.C.



1 **FIRST FLOOR DEMOLITION - ELECTRICAL - AREA B**
1/8" = 1'-0"

NORTH

21002885.04 1/28/2022 9:06:21 PM ESSER HVAC Improvements - East High School

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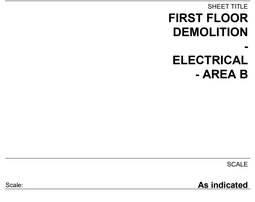

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Approved	**Approver**

SHEET TITLE

FIRST FLOOR DEMOLITION - ELECTRICAL - AREA B

SCALE

Scale: **As indicated**

SHEET NUMBER

E101B

SHEET NOTES:

1. UNLESS NOTED OTHERWISE, DISCONNECT AND REMOVE EXISTING CEILING MOUNTED ELECTRICAL DEVICES (LIGHT FIXTURES, SMOKE DETECTORS, OCCUPANCY SENSORS, SPEAKERS, ETC.) AS NEEDED FOR CEILING REMOVAL DUE TO NEW DUCT AND PIPING WORK. REINSTALL AND RECONNECT EXISTING DEVICES AFTER COMPLETION OF NEW CEILING WORK. FIELD COORDINATE THE FINAL SCOPE REQUIREMENTS WITH THE G.C.

KEYNOTES: (#)

1. DISCONNECT POWER FROM EXISTING MECHANICAL UNIT. REMOVE ALL ASSOCIATED ELECTRICAL INFRASTRUCTURE (DISCONNECT STARTER, BACKBOXES ETC.). REMOVE ASSOCIATED WIRING & CONDUIT BACK TO SERVING PANEL AND MARK THE BREAKER AS "SPARE". MAINTAIN CONTINUITY OF POWER TO ALL EXISTING REMAIN DEVICES CONNECTED TO THIS CIRCUIT. FIELD VERIFY THE REQUIREMENTS.

1 FIRST FLOOR DEMOLITION - ELECTRICAL - AREA E

1/16" = 1'-0"

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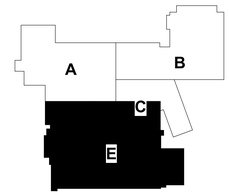

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Date	**JANUARY 28, 2022**
Job Number	**21002885.04**
Drawn	**Author**
Checked	**Checker**
Approved	**Approver**

SHEET TITLE

FIRST FLOOR DEMOLITION - ELECTRICAL - AREA E

SCALE

Scale: **As indicated**

SHEET NUMBER

E101E

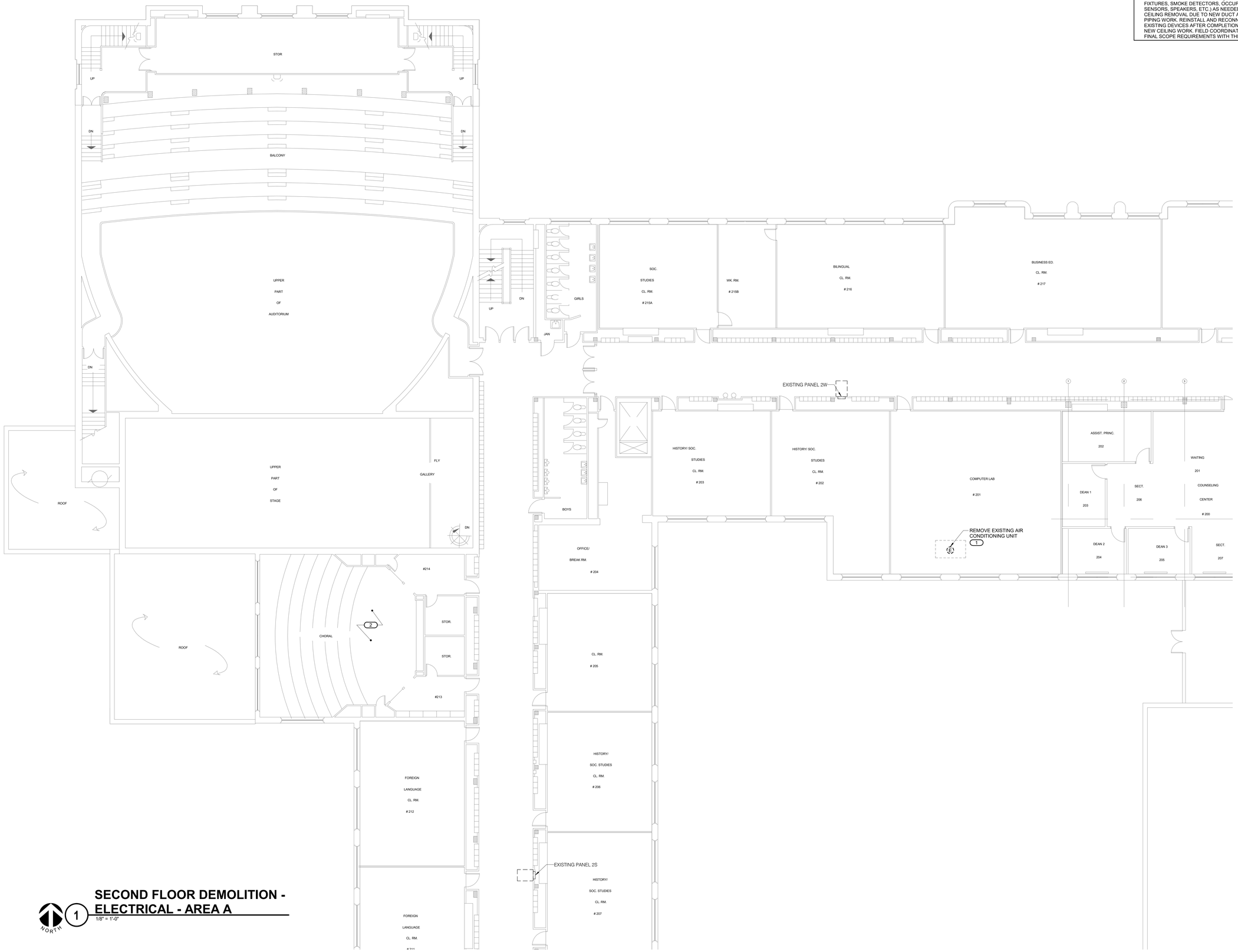
21002885.04 1/28/2022 9:06:23 PM ESSER HVAC Improvements - East High School

SHEET NOTES:

1. UNLESS NOTED OTHERWISE, DISCONNECT AND REMOVE EXISTING CEILING MOUNTED ELECTRICAL DEVICES (LIGHT FIXTURES, SMOKE DETECTORS, OCCUPANCY SENSORS, SPEAKERS, ETC.) AS NEEDED FOR CEILING REMOVAL DUE TO NEW DUCT AND PIPING WORK. REINSTALL AND RECONNECT EXISTING DEVICES AFTER COMPLETION OF NEW CEILING WORK. FIELD COORDINATE THE FINAL SCOPE REQUIREMENTS WITH THE G.C.

KEYNOTES: (#)

1. DISCONNECT POWER FROM EXISTING MECHANICAL UNIT. REMOVE ALL ASSOCIATED ELECTRICAL INFRASTRUCTURE (DISCONNECT STARTER, BACKBOXES ETC.). REMOVE ASSOCIATED WIRING & CONDUIT BACK TO SERVING PANEL AND MARK THE BREAKER AS "SPARE". MAINTAIN CONTINUITY OF POWER TO ALL EXISTING REMAIN DEVICES CONNECTED TO THIS CIRCUIT. FIELD VERIFY THE REQUIREMENTS.
2. DISCONNECT AND REMOVE EXISTING CEILING MOUNTED ELECTRICAL DEVICES (LIGHT FIXTURES, SMOKE DETECTORS, OCCUPANCY SENSORS, SPEAKERS, ETC.) AS NEEDED FOR CEILING REMOVAL DUE TO NEW DUCT AND PIPING WORK. REINSTALL AND RECONNECT EXISTING DEVICES AFTER COMPLETION OF NEW CEILING WORK. FIELD COORDINATE THE FINAL SCOPE REQUIREMENTS WITH THE G.C.



SECOND FLOOR DEMOLITION - ELECTRICAL - AREA A

1/8" = 1'-0"

NORTH

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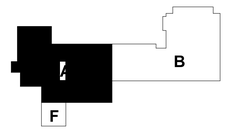
KEY PLAN



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REVISIONS

No.	Date	Revision / Issue

SHEET INFORMATION

Issue	**BID DOCUMENTS**
Date	**JANUARY 28, 2022**
Job Number	**21002885.04**
Drawn	**Author**
Checked	**Checker**
Approved	**Approver**

SHEET TITLE

SECOND FLOOR DEMOLITION - ELECTRICAL - AREA A

SCALE

Scale: **As indicated**

SHEET NUMBER

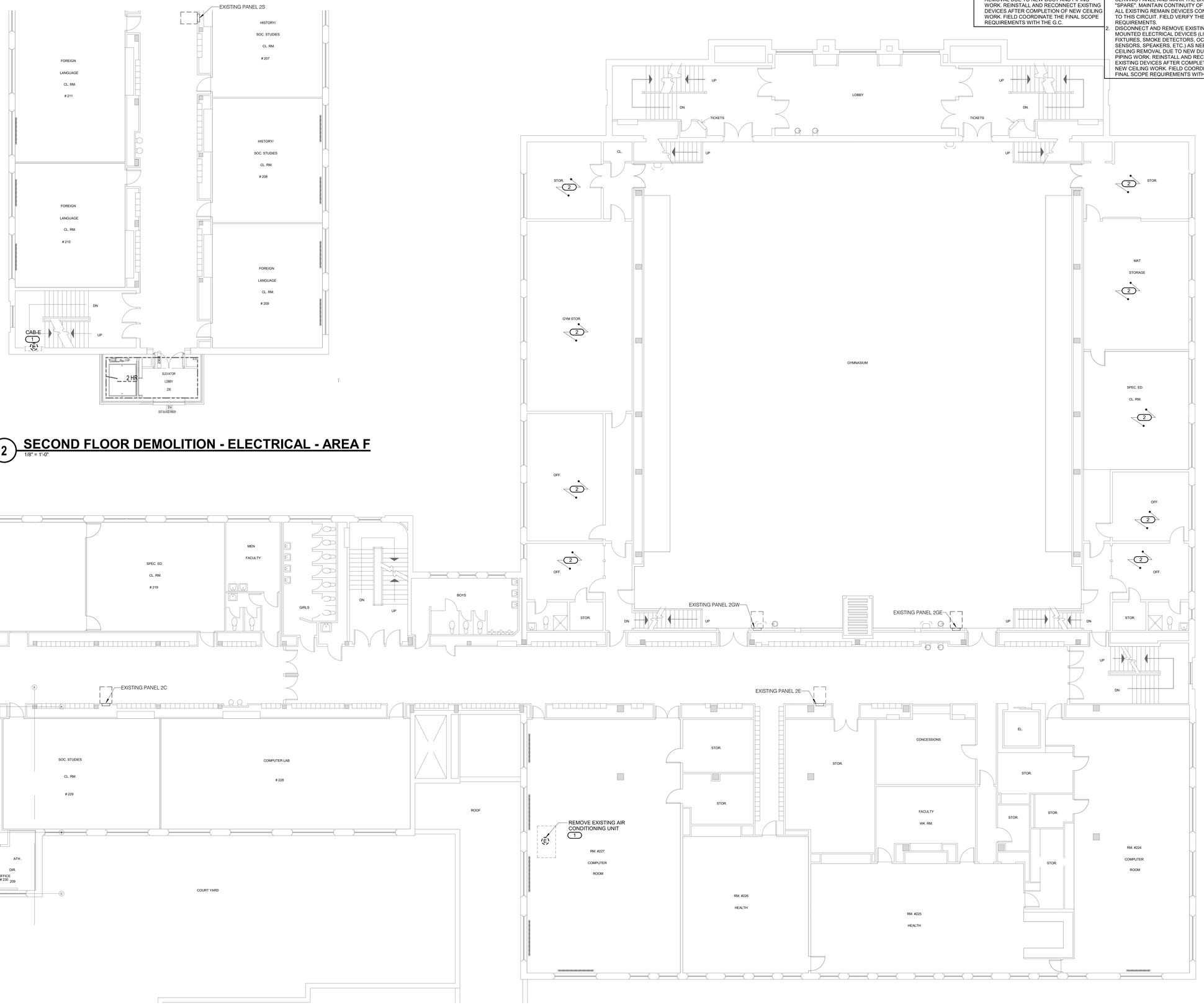
E102A

SHEET NOTES:

1. UNLESS NOTED OTHERWISE, DISCONNECT AND REMOVE EXISTING CEILING MOUNTED ELECTRICAL DEVICES (LIGHT FIXTURES, SMOKE DETECTORS, OCCUPANCY SENSORS, SPEAKERS, ETC.) AS NEEDED FOR CEILING REMOVAL DUE TO NEW DUCT AND PIPING WORK. REINSTALL AND RECONNECT EXISTING DEVICES AFTER COMPLETION OF NEW CEILING WORK. FIELD COORDINATE THE FINAL SCOPE REQUIREMENTS WITH THE G.C.

KEYNOTES: (#)

1. DISCONNECT POWER FROM EXISTING MECHANICAL UNIT. REMOVE ALL ASSOCIATED ELECTRICAL INFRASTRUCTURE (DISCONNECT STARTER, BACKBOXES ETC.). REMOVE ASSOCIATED WIRING & CONDUIT BACK TO SERVING PANEL AND MARK THE BREAKER AS "SPARE". MAINTAIN CONTINUITY OF POWER TO ALL EXISTING REMAIN DEVICES CONNECTED TO THIS CIRCUIT. FIELD VERIFY THE REQUIREMENTS.
2. DISCONNECT AND REMOVE EXISTING CEILING MOUNTED ELECTRICAL DEVICES (LIGHT FIXTURES, SMOKE DETECTORS, OCCUPANCY SENSORS, SPEAKERS, ETC.) AS NEEDED FOR CEILING REMOVAL DUE TO NEW DUCT AND PIPING WORK. REINSTALL AND RECONNECT EXISTING DEVICES AFTER COMPLETION OF NEW CEILING WORK. FIELD COORDINATE THE FINAL SCOPE REQUIREMENTS WITH THE G.C.



NORTH 2 **SECOND FLOOR DEMOLITION - ELECTRICAL - AREA F**
1/8" = 1'-0"

NORTH 1 **SECOND FLOOR DEMOLITION - ELECTRICAL - AREA B**
1/8" = 1'-0"

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Checked	**Checker**
Approved	**Approver**

SHEET TITLE

SECOND FLOOR DEMOLITION - ELECTRICAL - AREA B & F

SCALE

Scale: **As indicated**

SHEET NUMBER

E102B

21002885.04 1/28/2022 9:06:26 PM ESSER HVAC Improvements - East High School

SHEET NOTES:

1. UNLESS NOTED OTHERWISE, DISCONNECT AND REMOVE EXISTING CEILING MOUNTED ELECTRICAL DEVICES (LIGHT FIXTURES, SMOKE DETECTORS, OCCUPANCY SENSORS, SPEAKERS, ETC.) AS NEEDED FOR CEILING REMOVAL DUE TO NEW DUCT AND PIPING WORK. REINSTALL AND RECONNECT EXISTING DEVICES AFTER COMPLETION OF NEW CEILING WORK. FIELD COORDINATE THE FINAL SCOPE REQUIREMENTS WITH THE G.C.
2. WHERE APPLICABLE, RETAIN EXISTING WALL RECESSED BACKBOX AND CONCEALED CONDUIT DURING DEMOLITION WORK FOR REUSE.

KEYNOTES: (#)

1. DISCONNECT AND REMOVE EXISTING LIGHT FIXTURE FOR NEW CEILING WORK IN THIS AREA. RETAIN EXISTING LIGHTING CIRCUIT AND PREPARE IT TO SERVE NEW LIGHTS PER NEW PLANS. DISCONNECT AND RETAIN OTHER EXISTING CEILING MOUNT DEVICES (I.E. DETECTORS, ETC.) FOR NEW CEILING WORK. REINSTALL AND RECONNECT DEVICES AFTER COMPLETION OF NEW CEILING WORK.
2. REMOVE EXISTING DEVICE AND ASSOCIATED WIRING. RETAIN EXISTING WALL RECESSED BACKBOX AND CONCEALED CONDUIT TO INSTALL NEW DEVICE AND NEW WIRING.
3. DISCONNECT POWER FROM EXISTING MECHANICAL UNIT. REMOVE ALL ASSOCIATED ELECTRICAL INFRASTRUCTURE (DISCONNECT STARTER, BACKBOXES ETC.). REMOVE ASSOCIATED WIRING & CONDUIT BACK TO SERVING PANEL AND MARK THE BREAKER AS "SPARE". MAINTAIN CONTINUITY OF POWER TO ALL EXISTING REMAIN DEVICES CONNECTED TO THIS CIRCUIT. FIELD VERIFY THE REQUIREMENTS.
4. DISCONNECT AND REMOVE EXISTING CEILING MOUNTED ELECTRICAL DEVICES (LIGHT FIXTURES, SMOKE DETECTORS, OCCUPANCY SENSORS, SPEAKERS, ETC.) AS NEEDED FOR CEILING REMOVAL DUE TO NEW DUCT AND PIPING WORK. REINSTALL AND RECONNECT EXISTING DEVICES AFTER COMPLETION OF NEW CEILING WORK. FIELD COORDINATE THE FINAL SCOPE REQUIREMENTS WITH THE G.C.

NORTH

1 THIRD FLOOR DEMOLITION - ELECTRICAL - AREA A

1/8" = 1'-0"

21002885.04 1/28/2022 9:06:28 PM ESSER HVAC Improvements - East High School

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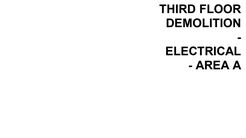

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Checked	**Checker**
Approved	**Approver**

SHEET TITLE

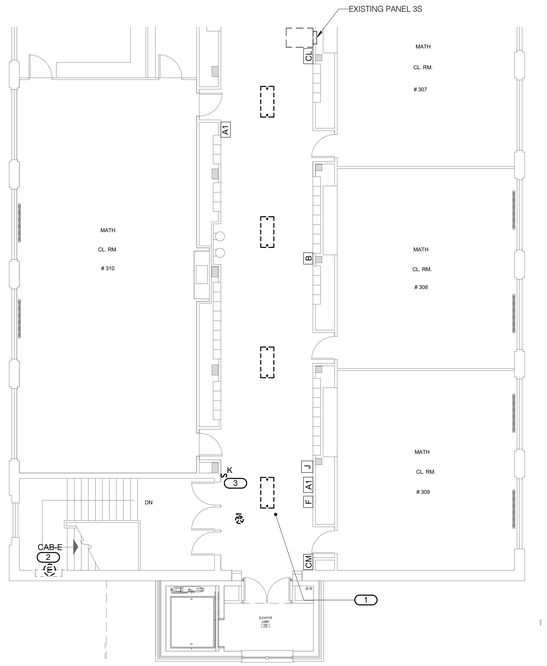
THIRD FLOOR DEMOLITION - ELECTRICAL - AREA A

SCALE

Scale: **As indicated**

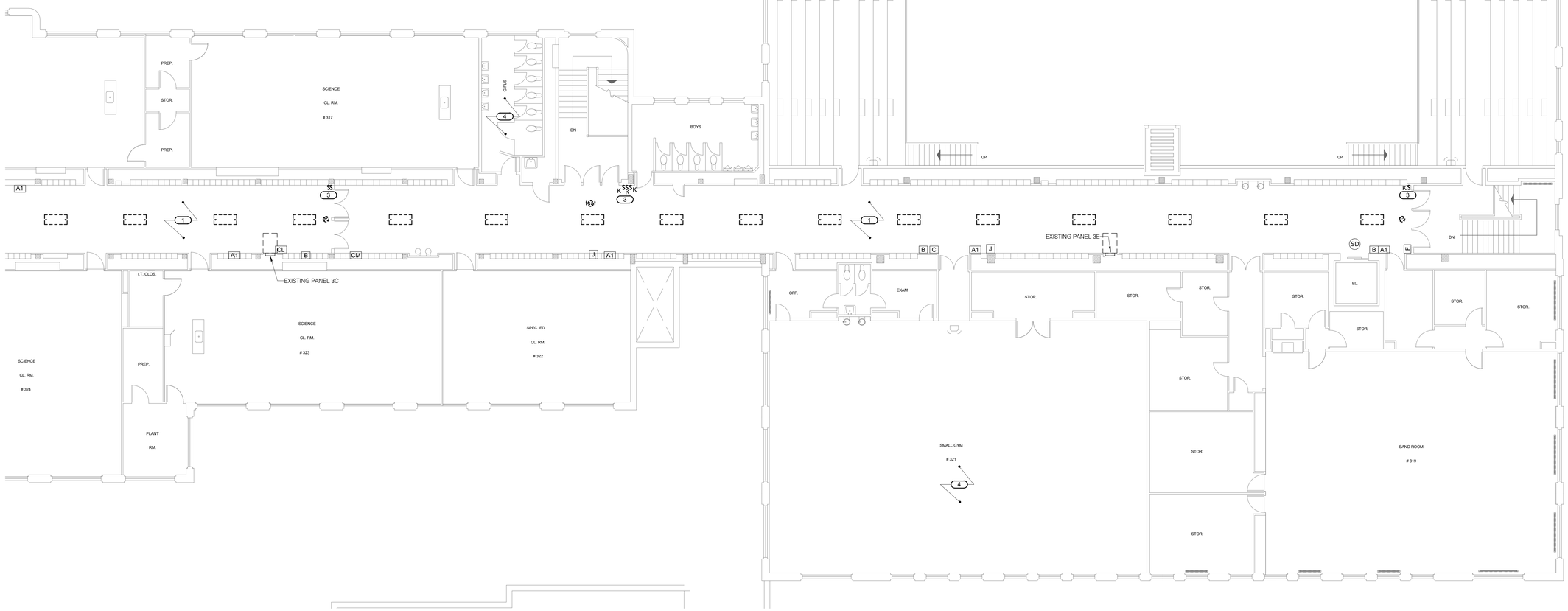
SHEET NUMBER

E103A



THIRD FLOOR DEMOLITION - ELECTRICAL - AREA F

1/8" = 1'-0"



THIRD FLOOR DEMOLITION - ELECTRICAL - AREA B

1/8" = 1'-0"

SHEET NOTES:

1. UNLESS NOTED OTHERWISE, DISCONNECT AND REMOVE EXISTING CEILING MOUNTED ELECTRICAL DEVICES (LIGHT FIXTURES, SMOKE DETECTORS, OCCUPANCY SENSORS, SPEAKERS, ETC.) AS NEEDED FOR CEILING REMOVAL DUE TO NEW DUCT AND PIPING WORK. REINSTALL AND RECONNECT EXISTING DEVICES AFTER COMPLETION OF NEW CEILING WORK. FIELD COORDINATE THE FINAL SCOPE REQUIREMENTS WITH THE G.C.
2. WHERE APPLICABLE, RETAIN EXISTING WALL RECESSED BACKBOX AND CONCEALED CONDUIT DURING DEMOLITION WORK FOR REUSE.

KEYNOTES: (#)

1. DISCONNECT AND REMOVE EXISTING LIGHT FIXTURE FOR NEW CEILING WORK IN THIS AREA. RETAIN EXISTING LIGHTING CIRCUIT AND PREPARE IT TO SERVE NEW LIGHTS PER NEW PLANS. DISCONNECT AND RETAIN OTHER EXISTING CEILING MOUNT DEVICES (I.E. DETECTORS, ETC.) FOR NEW CEILING WORK. REINSTALL AND RECONNECT DEVICES AFTER COMPLETION OF NEW CEILING WORK.
2. DISCONNECT POWER FROM EXISTING MECHANICAL UNIT. REMOVE ALL ASSOCIATED ELECTRICAL INFRASTRUCTURE (DISCONNECT STARTER, BACKBOXES ETC.). REMOVE ASSOCIATED WIRING & CONDUIT BACK TO SERVING PANEL AND MARK THE BREAKER AS "SPARE". MAINTAIN CONTINUITY OF POWER TO ALL EXISTING REMAIN DEVICES CONNECTED TO THIS CIRCUIT. FIELD VERIFY THE REQUIREMENTS.
3. REMOVE EXISTING DEVICE AND ASSOCIATED WIRING. RETAIN EXISTING WALL RECESSED BACKBOX AND CONCEALED CONDUIT TO INSTALL NEW DEVICE AND NEW WIRING.
4. DISCONNECT AND REMOVE EXISTING CEILING MOUNTED ELECTRICAL DEVICES (LIGHT FIXTURES, SMOKE DETECTORS, OCCUPANCY SENSORS, SPEAKERS, ETC.) AS NEEDED FOR CEILING REMOVAL DUE TO NEW DUCT AND PIPING WORK. REINSTALL AND RECONNECT EXISTING DEVICES AFTER COMPLETION OF NEW CEILING WORK. FIELD COORDINATE THE FINAL SCOPE REQUIREMENTS WITH THE G.C.

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Drawn	**Author**
Checked	**Checker**
Approved	**Approver**

SHEET TITLE

THIRD FLOOR DEMOLITION - ELECTRICAL - AREA B & F

SCALE

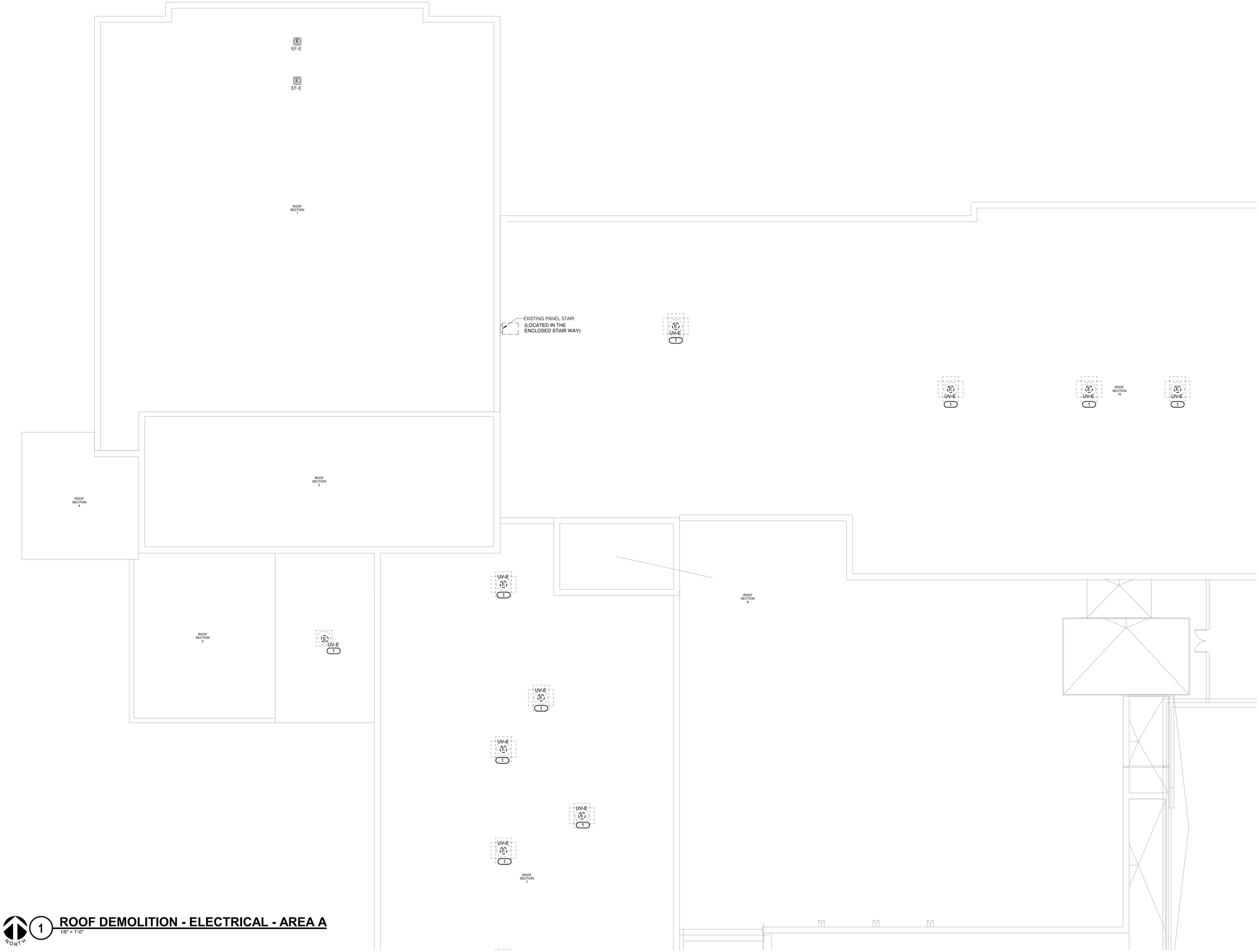
Scale: **As indicated**

SHEET NUMBER

E103B

KEYNOTES: (#)

1. DISCONNECT POWER FROM EXISTING MECHANICAL UNIT. REMOVE ALL ASSOCIATED ELECTRICAL INFRASTRUCTURE (DISCONNECT STARTER, BACKBOXES ETC.). REMOVE ASSOCIATED WIRING & CONDUIT BACK TO SERVING PANEL AND MARK THE BREAKER AS "SPARE". MAINTAIN CONTINUITY OF POWER TO ALL EXISTING REMAIN DEVICES CONNECTED TO THIS CIRCUIT. FIELD VERIFY THE REQUIREMENTS.



1 ROOF DEMOLITION - ELECTRICAL - AREA A

1/8" = 1'-0"

21002885.04 1/28/2022 9:06:32 PM ESSER HVAC Improvements - East High School

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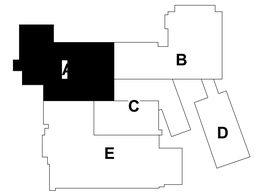
KEY PLAN



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Checked	**Checker**
Approved	**Approver**

SHEET TITLE

ROOF DEMOLITION - ELECTRICAL - AREA A

SCALE

Scale: **As indicated**

SHEET NUMBER

E104A

KEYNOTES: (#)

1. DISCONNECT POWER FROM EXISTING MECHANICAL UNIT. REMOVE ALL ASSOCIATED ELECTRICAL INFRASTRUCTURE (DISCONNECT STARTER, BACKBOXES ETC.). REMOVE ASSOCIATED WIRING & CONDUIT BACK TO SERVING PANEL AND MARK THE BREAKER AS "SPARE". MAINTAIN CONTINUITY OF POWER TO ALL EXISTING REMAIN DEVICES CONNECTED TO THIS CIRCUIT. FIELD VERIFY THE REQUIREMENTS.

1 **ROOF DEMOLITION - ELECTRICAL - AREA B**
1/8" = 1'-0"

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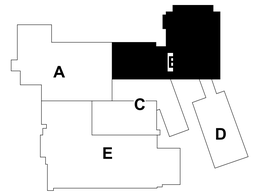

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Checked	**Checker**
Approved	**Approver**

SHEET TITLE
ROOF DEMOLITION - ELECTRICAL - AREA B

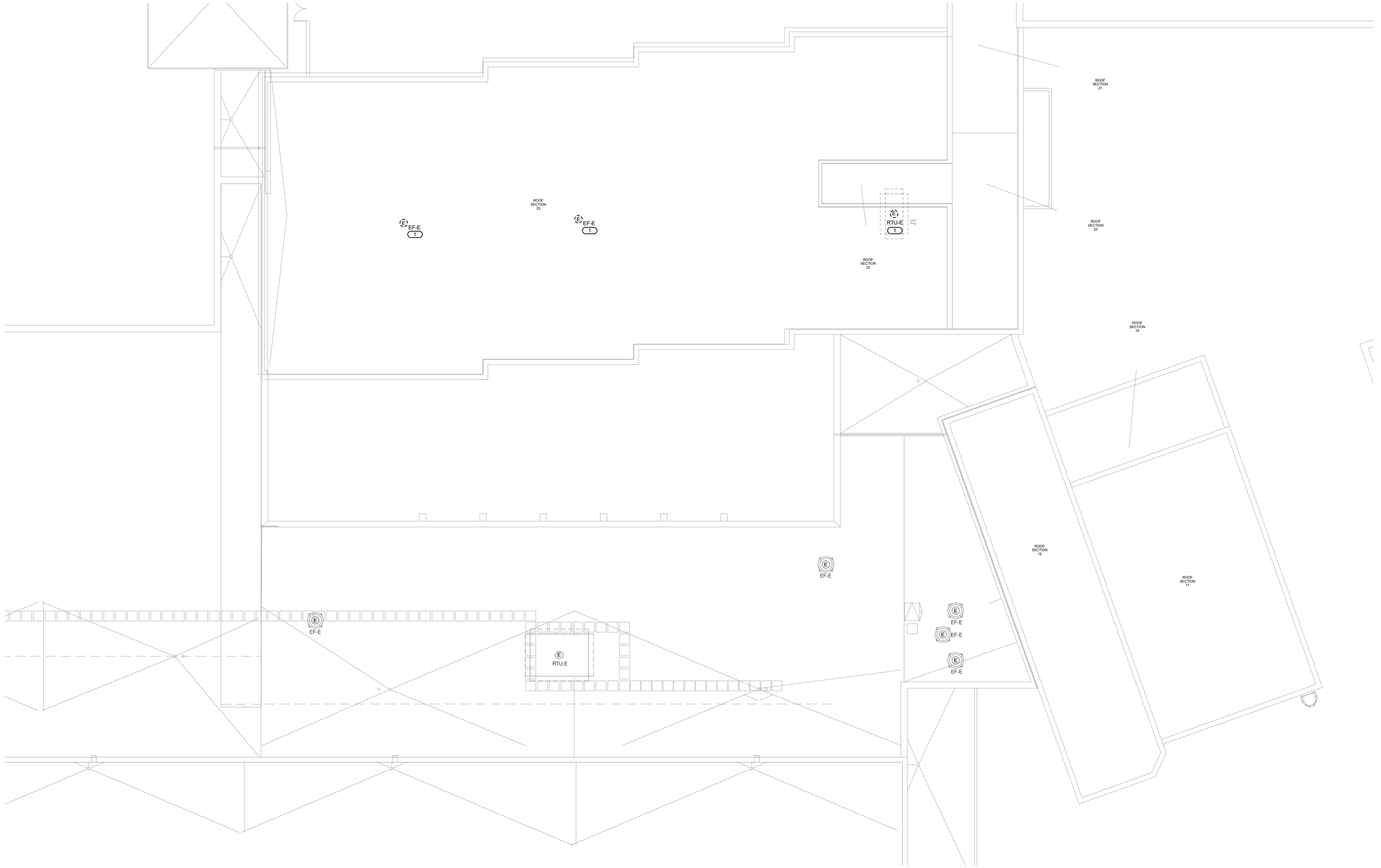
SCALE
Scale: **As indicated**

SHEET NUMBER
E104B

21002885.04 1/28/2022 9:06:34 PM ESSER HVAC Improvements - East High School

KEYNOTES: (#)

1. BASE BID SCOPE - EXISTING TO REMAIN. ALTERNATE BID #2 SCOPE - DISCONNECT POWER FROM EXISTING MECHANICAL UNIT. REMOVE ALL ASSOCIATED ELECTRICAL INFRASTRUCTURE (DISCONNECT STARTER, BACKBOXES ETC.). REMOVE ASSOCIATED WIRING & CONDUIT BACK TO SERVING PANEL AND MARK THE BREAKER AS "SPARE". MAINTAIN CONTINUITY OF POWER TO ALL EXISTING REMAIN DEVICES CONNECTED TO THIS CIRCUIT. FIELD VERIFY THE REQUIREMENTS.



1 ROOF DEMOLITION - ELECTRICAL - AREA C

1/8" = 1'-0"

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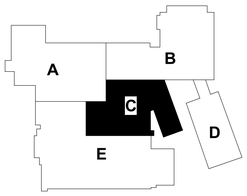
KEY PLAN



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Job Number	**21002885.04**
Drawn	**Author**
Checked	**Checker**
Approved	**Approver**

SHEET TITLE

ROOF DEMOLITION - ELECTRICAL - AREA C

SCALE

Scale: **As indicated**

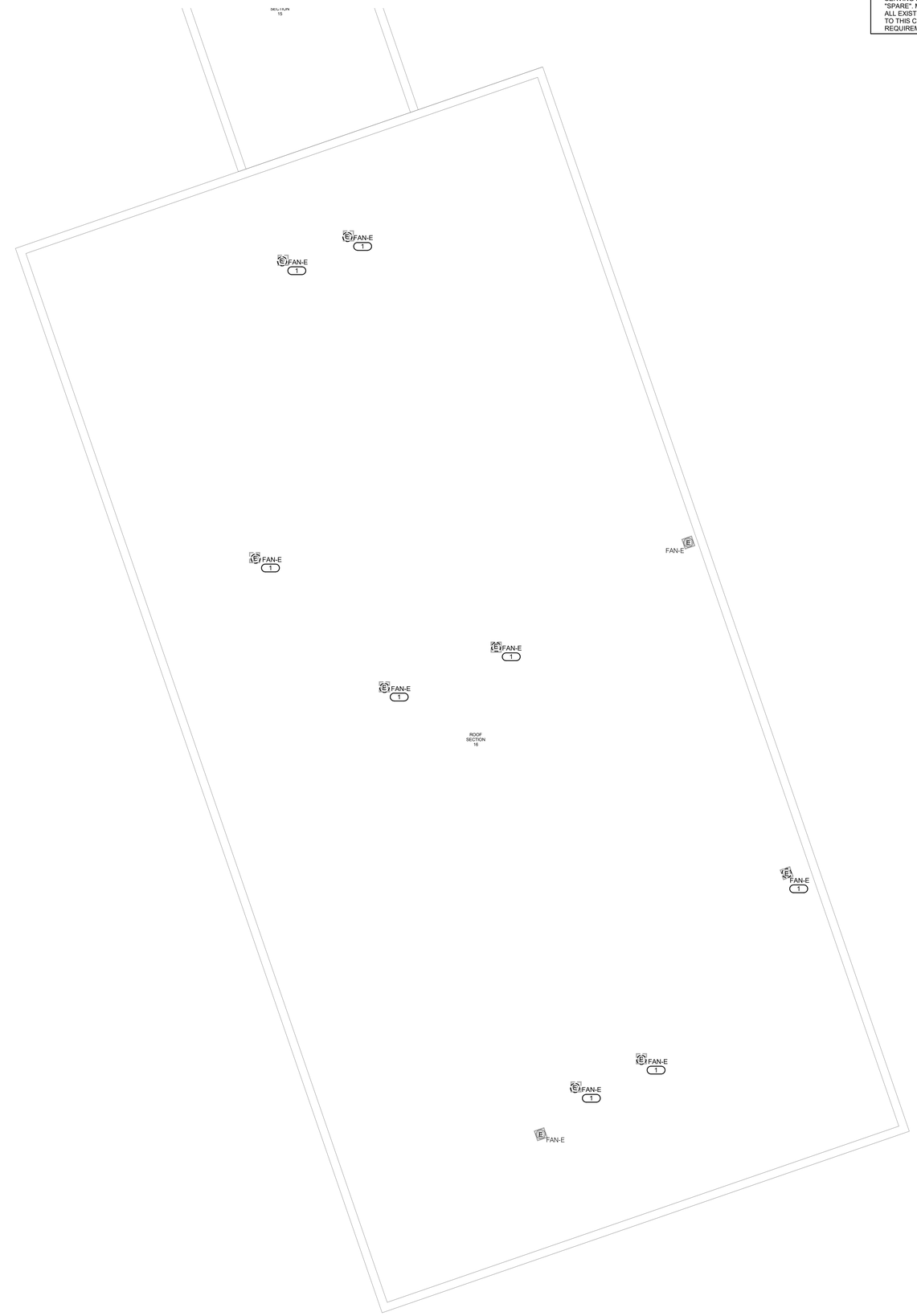
SHEET NUMBER

E104C

21002885.04 1/28/2022 9:06:35 PM ESSER HVAC Improvements - East High School

KEYNOTES: (#)

1. DISCONNECT POWER FROM EXISTING MECHANICAL UNIT. REMOVE ALL ASSOCIATED ELECTRICAL INFRASTRUCTURE (DISCONNECT STARTER, BACKBOXES ETC.). REMOVE ASSOCIATED WIRING & CONDUIT BACK TO SERVING PANEL AND MARK THE BREAKER AS "SPARE". MAINTAIN CONTINUITY OF POWER TO ALL EXISTING REMAIN DEVICES CONNECTED TO THIS CIRCUIT. FIELD VERIFY THE REQUIREMENTS.



1 ROOF DEMOLITION - ELECTRICAL - AREA D

1/8" = 1'-0"

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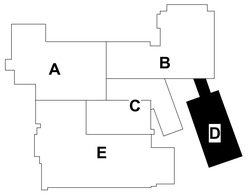

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REVISIONS

No.	Date	Revision / Issue

SHEET INFORMATION

Issue	**BID DOCUMENTS**
Date	**JANUARY 28, 2022**
Job Number	**21002885.04**
Drawn	**Author**
Checked	**Checker**
Approved	**Approver**

SHEET TITLE

ROOF DEMOLITION - ELECTRICAL - AREA D

SCALE

Scale: **As indicated**

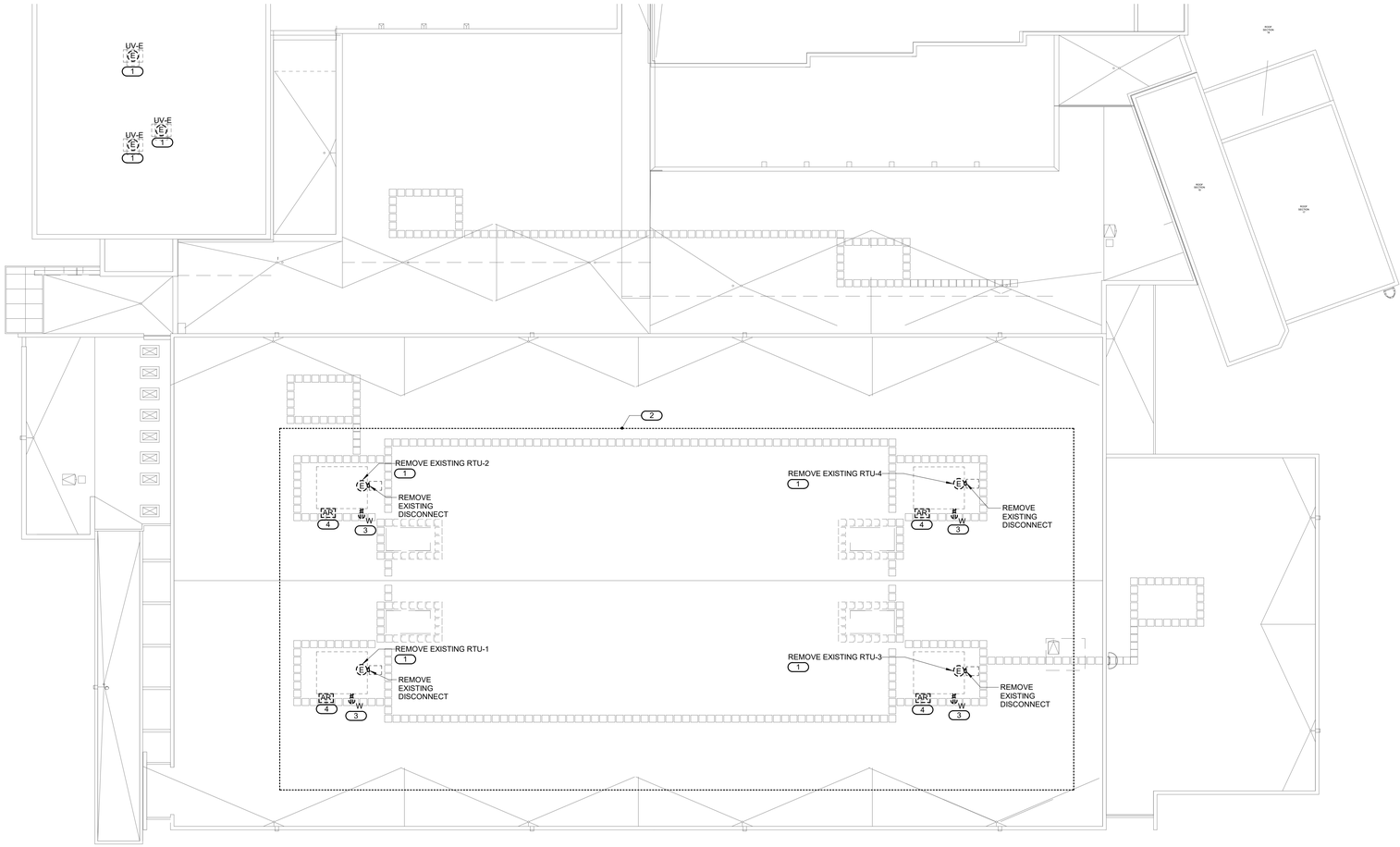
SHEET NUMBER

E104D

21002885.04 1/28/2022 9:06:37 PM ESSER HVAC Improvements - East High School

KEYNOTES: (#)

1. DISCONNECT POWER FROM EXISTING MECHANICAL UNIT. REMOVE ALL ASSOCIATED ELECTRICAL INFRASTRUCTURE (DISCONNECT STARTER, BACKBOXES ETC.). REMOVE ASSOCIATED WIRING & CONDUIT BACK TO SERVING PANEL AND MARK THE BREAKER AS "SPARE". MAINTAIN CONTINUITY OF POWER TO ALL EXISTING REMAIN DEVICES CONNECTED TO THIS CIRCUIT. FIELD VERIFY THE REQUIREMENTS.
2. BASE BID SCOPE - EXISTING TO REMAIN. ALTERNATE BID #1 SCOPE - SCOPE AS SHOWN.
3. DISCONNECT AND REMOVE EXISTING ELECTRICAL DEVICE. RETAIN EXISTING BRANCH CIRCUIT WIRING AND PREPARE IT TO SERVE THE NEW DEVICE AT NEW LOCATION PER NEW PLAN.
4. DISCONNECT AND REMOVE ALL EXISTING FIRE ALARM CONNECTIONS TO SHOWN UNIT(S). RETAIN EXISTING FIRE ALARM CONTROL WIRING AND PREPARE IT TO SERVE THE NEW DEVICE AT NEW LOCATION PER NEW PLAN.



1 ROOF DEMOLITION - ELECTRICAL - AREA E

1/16" = 1'-0"

NORTH

21002885.04 1/28/2022 9:06:38 PM ESSER HVAC Improvements - East High School

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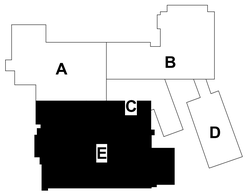
KEY PLAN



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Approved	**Approver**

SHEET TITLE

ROOF DEMOLITION - ELECTRICAL - AREA E

SCALE

Scale: **As indicated**

SHEET NUMBER

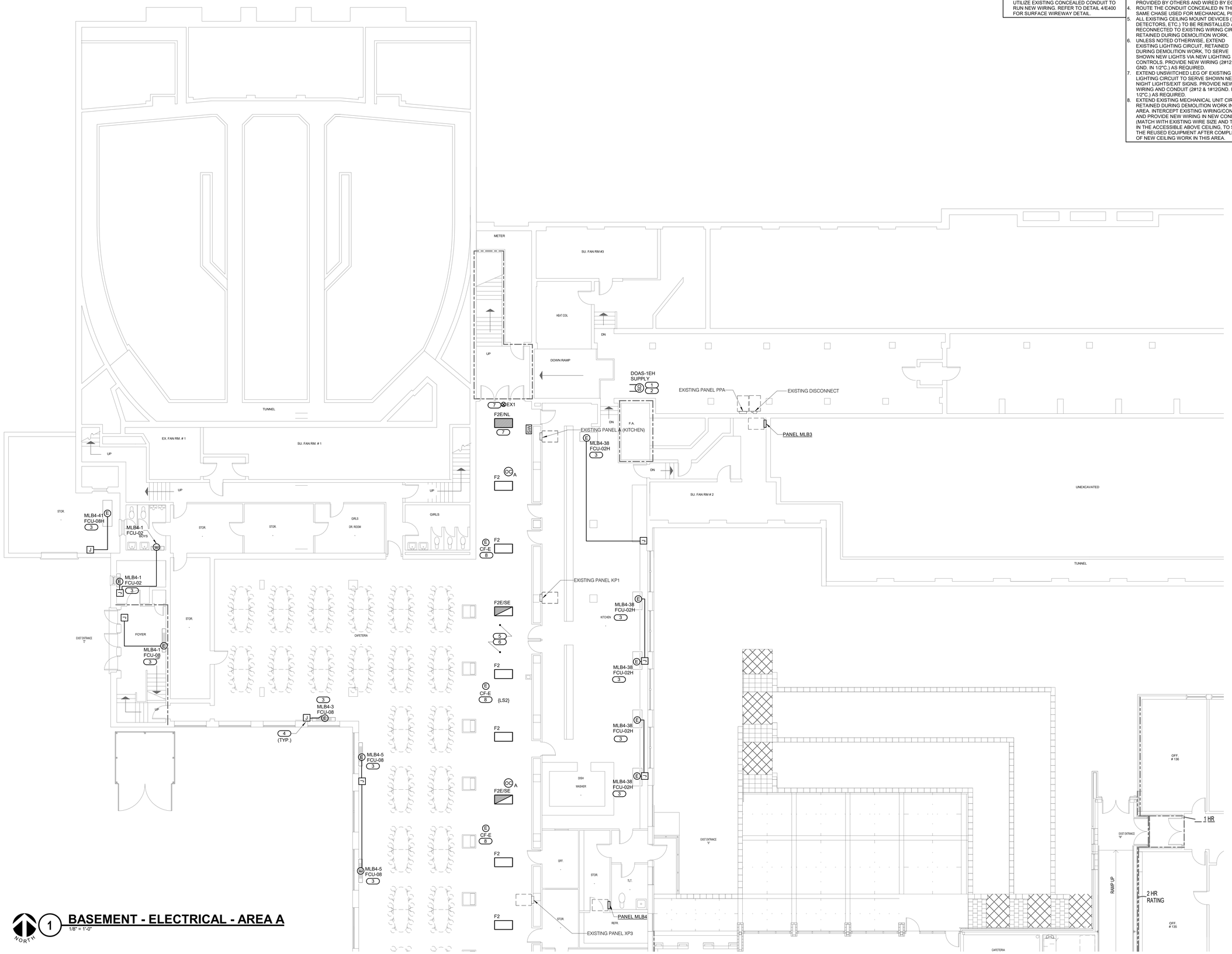
E104E

SHEET NOTES:

1. E.C. TO RUN NEW MECHANICAL BRANCH CIRCUITS IN MECHANICAL VERTICAL CHASE FOR ALL FCU UNITS.
2. PROVIDE ARCHITECTURAL SURFACE RACEWAY TO INSTALL THE NEW DEVICE ON EXISTING WALL IN PUBLIC FINISHED SPACES WHERE WALLS ARE FINISHED. IF APPLICABLE, THE CONTRACTOR IS ALLOWED TO INSTALL NEW LIGHTING CONTROL/OUTLET/FIRE ALARM DEVICE IN EXISTING RECESSED BACKBOX AND UTILIZE EXISTING CONCEALED CONDUIT TO RUN NEW WIRING. REFER TO DETAIL 4/E400 FOR SURFACE WIREWAY DETAIL.

KEYNOTES: (#)

1. INSTALL SAMPLING TUBES PER MANUFACTURER'S INSTRUCTIONS IN STRAIGHT RUN OF DUCT. COORDINATE INSTALLATION WITH M.C. PRIOR TO ROUGH-IN, SEAL ALL DUCT PENETRATION AIR-TIGHT.
2. CONNECT TO THE EXISTING FIRE ALARM DETECTION CIRCUIT AVAILABLE ON THIS FLOOR AS RECOMMENDED BY THE FIRE ALARM MANUFACTURER.
3. DISCONNECT AND/OR CONTROLLER/STARTER PROVIDED BY OTHERS AND WIRED BY EC.
4. ROUTE THE CONDUIT CONCEALED IN THE SAME CHASE USED FOR MECHANICAL PIPING.
5. ALL EXISTING CEILING MOUNT DEVICES (I.E. DETECTORS, ETC.) TO BE REINSTALLED AND RECONNECTED TO EXISTING WIRING CIRCUIT RETAINED DURING DEMOLITION WORK.
6. UNLESS NOTED OTHERWISE, EXTEND EXISTING LIGHTING CIRCUIT, RETAINED DURING DEMOLITION WORK, TO SERVE SHOWN NEW LIGHTS VIA NEW LIGHTING CONTROLS; PROVIDE NEW WIRING (2#12 & 1#12 GND. IN 1/2"C.) AS REQUIRED.
7. EXTEND UNSWITCHED LEG OF EXISTING LIGHTING CIRCUIT TO SERVE SHOWN NEW NIGHT LIGHTS/EXIT SIGNS. PROVIDE NEW WIRING AND CONDUIT (2#12 & 1#12GND. IN 1/2"C.) AS REQUIRED.
8. EXTEND EXISTING MECHANICAL UNIT CIRCUIT RETAINED DURING DEMOLITION WORK IN THIS AREA. INTERCEPT EXISTING WIRING/CONDUIT AND PROVIDE NEW WIRING IN NEW CONDUIT (MATCH WITH EXISTING WIRE SIZE AND TYPE), IN THE ACCESSIBLE ABOVE CEILING, TO SERVE THE REUSED EQUIPMENT AFTER COMPLETION OF NEW CEILING WORK IN THIS AREA.



1 BASEMENT - ELECTRICAL - AREA A

1/8" = 1'-0"

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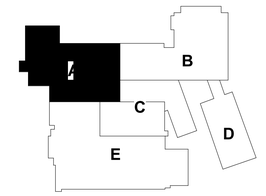
KEY PLAN



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Checked	**Checker**
Approved	**Approver**

SHEET TITLE

BASEMENT - ELECTRICAL - AREA A

SCALE

Scale: **As indicated**

SHEET NUMBER

E200A

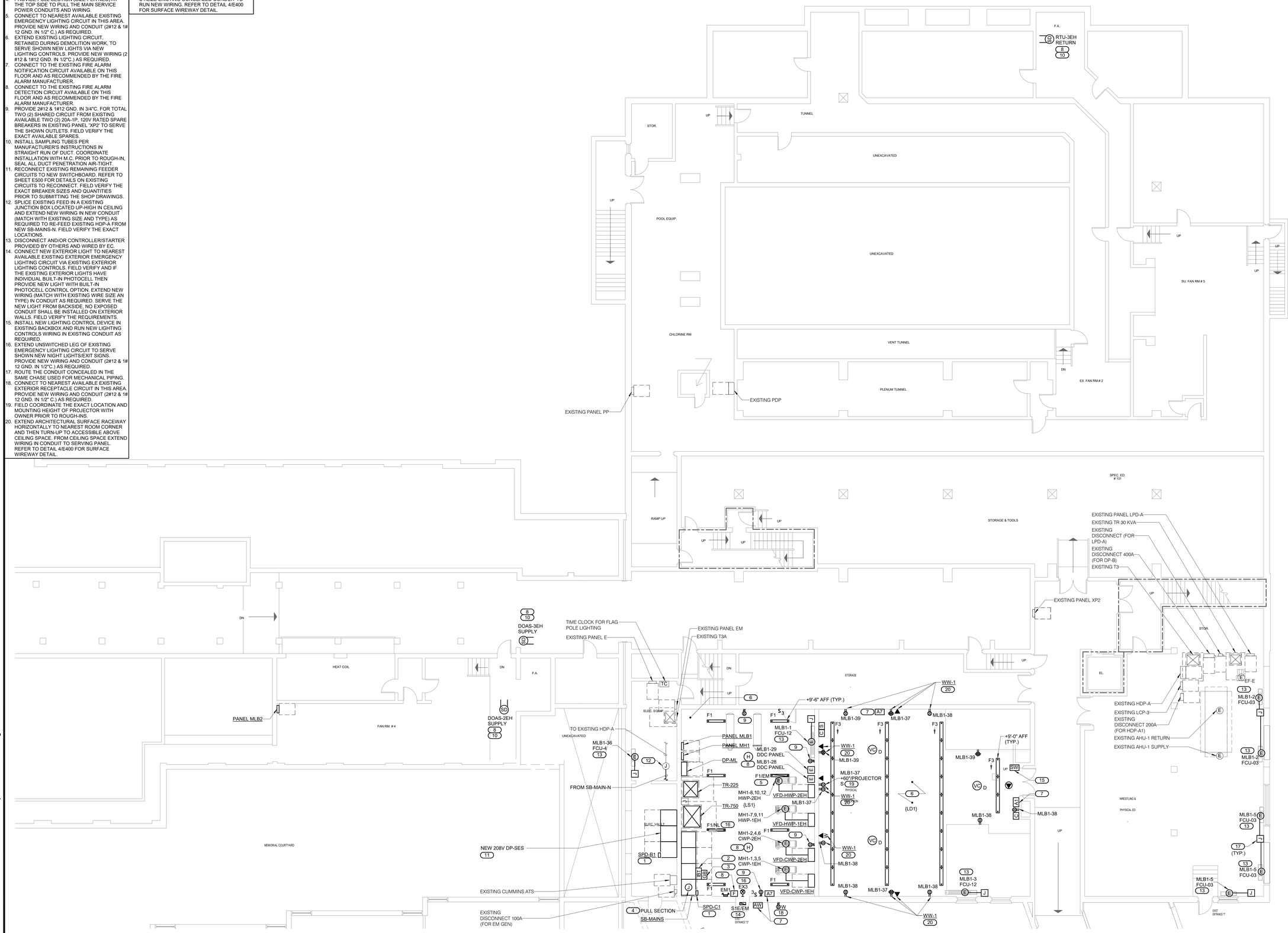
21002885.04 1/28/2022 9:06:41 PM ESSER HVAC Improvements - East High School

KEYNOTES: (#)

1. COORDINATE MOUNTING LOCATION IN FIELD TO INSTALL SURGE PROTECTIVE DEVICE ON WALL ABOVE THE SWITCHBOARD/ DISTRIBUTION BOARD /PANELBOARD LOCATION WITH-IN 5'-0"OF BUS.
2. COORDINATE MOUNTING LOCATION IN FIELD TO INSTALL INTERSYSTEM BONDING TERMINATION ON THE WALL.
3. COORDINATE MOUNTING LOCATION IN FIELD TO INSTALL GROUND BAR ON THE WALL.
4. PROVIDE PULL SECTION (SIZE PER NEC) AT THE TOP SIDE TO PULL THE MAIN SERVICE POWER CONDUITS AND WIRING.
5. CONNECT TO NEAREST AVAILABLE EXISTING EMERGENCY LIGHTING CIRCUIT IN THIS AREA. PROVIDE NEW WIRING AND CONDUIT (2#12 & 1# 12 GND. IN 1/2" C.) AS REQUIRED.
6. EXTEND EXISTING LIGHTING CIRCUIT, RETAINED DURING DEMOLITION WORK, TO SERVE SHOWN NEW LIGHTS VIA NEW LIGHTING CONTROLS. PROVIDE NEW WIRING (2 #12 & 1#12 GND. IN 1/2"C.) AS REQUIRED.
7. CONNECT TO THE EXISTING FIRE ALARM NOTIFICATION CIRCUIT AVAILABLE ON THIS FLOOR AND AS RECOMMENDED BY THE FIRE ALARM MANUFACTURER.
8. CONNECT TO THE EXISTING FIRE ALARM DETECTION CIRCUIT AVAILABLE ON THIS FLOOR AND AS RECOMMENDED BY THE FIRE ALARM MANUFACTURER.
9. PROVIDE 2#12 & 1#12 GND. IN 3/4"C. FOR TOTAL TWO (2) SHARED CIRCUIT FROM EXISTING AVAILABLE TWO (2) 20A-1P, 120V RATED SPARE BREAKERS IN EXISTING PANEL 'XP2' TO SERVE THE SHOWN OUTLETS. FIELD VERIFY THE EXACT AVAILABLE SPARES.
10. INSTALL SAMPLING TUBES PER MANUFACTURER'S INSTRUCTIONS IN STRAIGHT RUN OF DUCT. COORDINATE INSTALLATION WITH M.C. PRIOR TO ROUGH-IN, SEAL ALL DUCT PENETRATION AIR-TIGHT.
11. RECONNECT EXISTING REMAINING FEEDER CIRCUITS TO NEW SWITCHBOARD. REFER TO SHEET E500 FOR DETAILS ON EXISTING CIRCUITS TO RECONNECT. FIELD VERIFY THE EXACT BREAKER SIZES AND QUANTITIES PRIOR TO SUBMITTING THE SHOP DRAWINGS.
12. SPLICE EXISTING FEED IN A EXISTING JUNCTION BOX LOCATED UP-HIGH IN CEILING AND EXTEND NEW WIRING IN NEW CONDUIT (MATCH WITH EXISTING SIZE AND TYPE) AS REQUIRED TO RE-FEED EXISTING HDP-A FROM NEW SB-MAINS-N. FIELD VERIFY THE EXACT LOCATIONS.
13. DISCONNECT AND/OR CONTROLLER/STARTER PROVIDED BY OTHERS AND WIRED BY EC.
14. CONNECT NEW EXTERIOR LIGHT TO NEAREST AVAILABLE EXISTING EXTERIOR EMERGENCY LIGHTING CIRCUIT VIA EXISTING EXTERIOR LIGHTING CONTROLS. FIELD VERIFY AND IF THE EXISTING EXTERIOR LIGHTS HAVE INDIVIDUAL BUILT-IN PHOTOCELL THEN PROVIDE NEW LIGHT WITH BUILT-IN PHOTOCELL CONTROL OPTION. EXTEND NEW WIRING (MATCH WITH EXISTING WIRE SIZE AN TYPE) IN CONDUIT AS REQUIRED. SERVE THE NEW LIGHT FROM BACKSIDE. NO EXPOSED CONDUIT SHALL BE INSTALLED ON EXTERIOR WALLS. FIELD VERIFY THE REQUIREMENTS.
15. INSTALL NEW LIGHTING CONTROL DEVICE IN EXISTING BACKBOX AND RUN NEW LIGHTING CONTROLS WIRING IN EXISTING CONDUIT AS REQUIRED.
16. EXTEND UNSWITCHED LEG OF EXISTING EMERGENCY LIGHTING CIRCUIT TO SERVE SHOWN NEW NIGHT LIGHTS/EXIT SIGNS. PROVIDE NEW WIRING AND CONDUIT (2#12 & 1# 12 GND. IN 1/2"C.) AS REQUIRED.
17. ROUTE THE CONDUIT CONCEALED IN THE SAME CHASE USED FOR MECHANICAL PIPING.
18. CONNECT TO NEAREST AVAILABLE EXISTING EXTERIOR RECEPTACLE CIRCUIT IN THIS AREA. PROVIDE NEW WIRING AND CONDUIT (2#12 & 1# 12 GND. IN 1/2" C.) AS REQUIRED.
19. FIELD COORDINATE THE EXACT LOCATION AND MOUNTING HEIGHT OF PROJECTOR WITH OWNER PRIOR TO ROUGH-INS.
20. EXTEND ARCHITECTURAL SURFACE RACEWAY HORIZONTALLY TO NEAREST ROOM CORNER AND THEN TURN-UP TO ACCESSIBLE ABOVE CEILING SPACE. FROM CEILING SPACE EXTEND WIRING IN CONDUIT TO SERVING PANEL. REFER TO DETAIL 4/E400 FOR SURFACE WIREWAY DETAIL.

SHEET NOTES:

1. E.C. TO RUN NEW MECHANICAL BRANCH CIRCUITS IN MECHANICAL VERTICAL CHASE FOR ALL FCU UNITS.
2. PROVIDE ARCHITECTURAL SURFACE RACEWAY TO INSTALL THE NEW DEVICE ON EXISTING WALL IN PUBLIC FINISHED SPACES WHERE WALLS ARE FINISHED. IF APPLICABLE, THE CONTRACTOR IS ALLOWED TO INSTALL NEW LIGHTING CONTROL/OUTLET/FIRE ALARM DEVICE IN EXISTING RECESSED BACKBOX AND UTILIZE EXISTING CONCEALED CONDUIT TO RUN NEW WIRING. REFER TO DETAIL 4/E400 FOR SURFACE WIREWAY DETAIL.



1 BASEMENT - ELECTRICAL - AREA B

1/8" = 1'-0"

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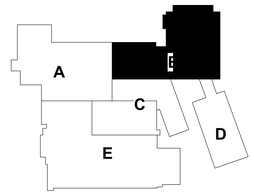
KEY PLAN



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Date	**JANUARY 28, 2022**
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Drawn	**Author**
Checked	**Checker**
Approved	**Approver**

SHEET TITLE

BASEMENT - ELECTRICAL - AREA B

SCALE

Scale: **As indicated**

SHEET NUMBER

E200B

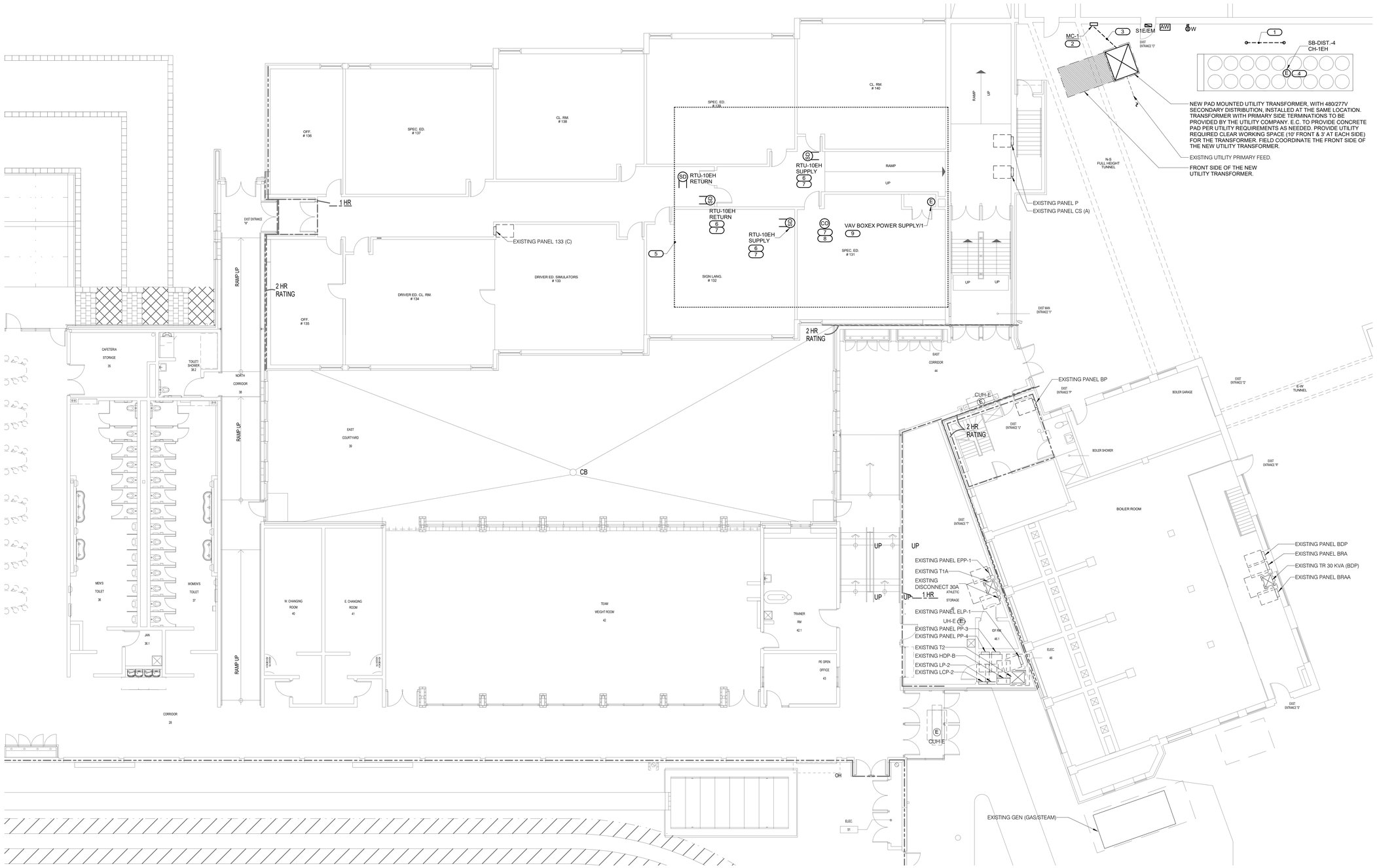
21002885.04 1/28/2022 9:06:41 PM ESSER HVAC Improvements - East High School

KEYNOTES: (#)

1. NEW GROUND GRID FOR NEW 480Y/277V RATED ELECTRIC SERVICE. REFER TO SHEET E501 RISER DIAGRAM FOR MORE INFORMATION. FIELD COORDINATE EXACT LOCATION.
2. E.C. TO PROVIDE WALL MOUNTED EXTERIOR NEMA 3R RATED CT/PT CABINET AND THE METER CABINET PER UTILITY COMPANY REQUIREMENTS FOR THE NEW 480V SERVICE. UTILITY METER FURNISHED AND INSTALLED BY UTILITY COMPANY.
3. NEW UNDERGROUND SECONDARY SIDE CONDUITS FOR NEW 480/277V, 3P-4W BUILDING SERVICE. E.C. TO FIELD COORDINATE THE ELECTRICAL CONDUIT ROUTING WITH CIVIL AND MECHANICAL CONTRACTOR AND WITH EXISTING UTILITIES IN THE AREA PRIOR TO INSTALLATION. ALSO REFER TO SHEET E501 AND DETAIL 3/E400 FOR MORE DETAILS.
4. DISCONNECT AND CONTROLLER/STARTER PROVIDED BY OTHERS AND WIRED BY E.C.
5. THIS WORK TO BE COMPLETED UNDER ALTERNATE BID#2 CONTRACT.

KEYNOTES: (#)

6. INSTALL SAMPLING TUBES PER MANUFACTURER'S INSTRUCTIONS IN STRAIGHT RUN OF DUCT. COORDINATE INSTALLATION WITH M.C. PRIOR TO ROUGH-IN, SEAL ALL DUCT PENETRATION AIR-TIGHT.
7. CONNECT TO THE EXISTING FIRE ALARM DETECTION CIRCUIT AVAILABLE ON THIS FLOOR AS RECOMMENDED BY THE FIRE ALARM MANUFACTURER.
8. MOUNT FIRE ALARM 'CO' SENSOR CLOSEST TO THE FIRST DUCT SUPPLY ENTRY IN THIS SPACE.
9. CIRCUIT NUMBER(S) ARE FOR REFERENCE ONLY. E.C. SHALL USE EXISTING 20A/1P, 120V RATED SPARE BREAKER WITH 2#12 & 1#12 GND IN 3/4" C. FOR CIRCUITING FROM EXISTING PANEL 'CS (A)'. E.C. SHALL USE NEW CONDUITS AND WIRE FOR THE CIRCUITS FROM THE PANEL. FIELD VERIFY THE EXACT AVAILABLE SPARE.



1 BASEMENT - ELECTRICAL - AREA C

1/8" = 1'-0"

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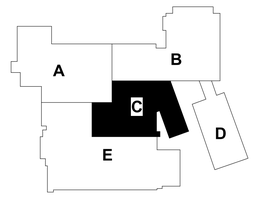
KEY PLAN



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Approved	**Approver**

SHEET TITLE

BASEMENT - ELECTRICAL - AREA C

SCALE

Scale: **As indicated**

SHEET NUMBER

E200C

SHEET NOTES:

1. PROVIDE ARCHITECTURAL SURFACE RACEWAY TO INSTALL THE NEW DEVICE ON EXISTING WALL IN PUBLIC FINISHED SPACES WHERE WALLS ARE FINISHED. IF APPLICABLE, THE CONTRACTOR IS ALLOWED TO INSTALL NEW LIGHTING CONTROL/OUTLET/FIRE ALARM DEVICE IN EXISTING RECESSED BACKBOX AND UTILIZE EXISTING CONCEALED CONDUIT TO RUN NEW WIRING. REFER TO DETAIL 4/E400 FOR SURFACE WIREWAY DETAIL.

KEYNOTES: (#)

1. INSTALL SAMPLING TUBES PER MANUFACTURER'S INSTRUCTIONS IN STRAIGHT RUN OF DUCT. COORDINATE INSTALLATION WITH M.C. PRIOR TO ROUGH-IN, SEAL ALL DUCT PENETRATION AIR-TIGHT.
2. CONNECT TO THE EXISTING FIRE ALARM DETECTION CIRCUIT AVAILABLE ON THIS FLOOR AS RECOMMENDED BY THE FIRE ALARM MANUFACTURER.
3. INSTALL NEW LIGHTING CONTROL DEVICE IN EXISTING BACKBOX AND RUN NEW LIGHTING CONTROLS WIRING IN EXISTING CONDUIT AS REQUIRED.
4. EXTEND EXISTING LIGHTING CIRCUIT, RETAINED DURING DEMOLITION WORK, TO SERVE SHOWN NEW LIGHTS VIA NEW LIGHTING CONTROLS. PROVIDE NEW WIRING (2 #12 & 1#12 GND. IN 1/2"C.) AS REQUIRED.

1 BASEMENT - ELECTRICAL - AREA D

1/8" = 1'-0"

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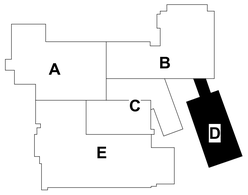

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BASEMENT - ELECTRICAL - AREA D

SCALE

Scale: **As indicated**

SHEET NUMBER

E200D

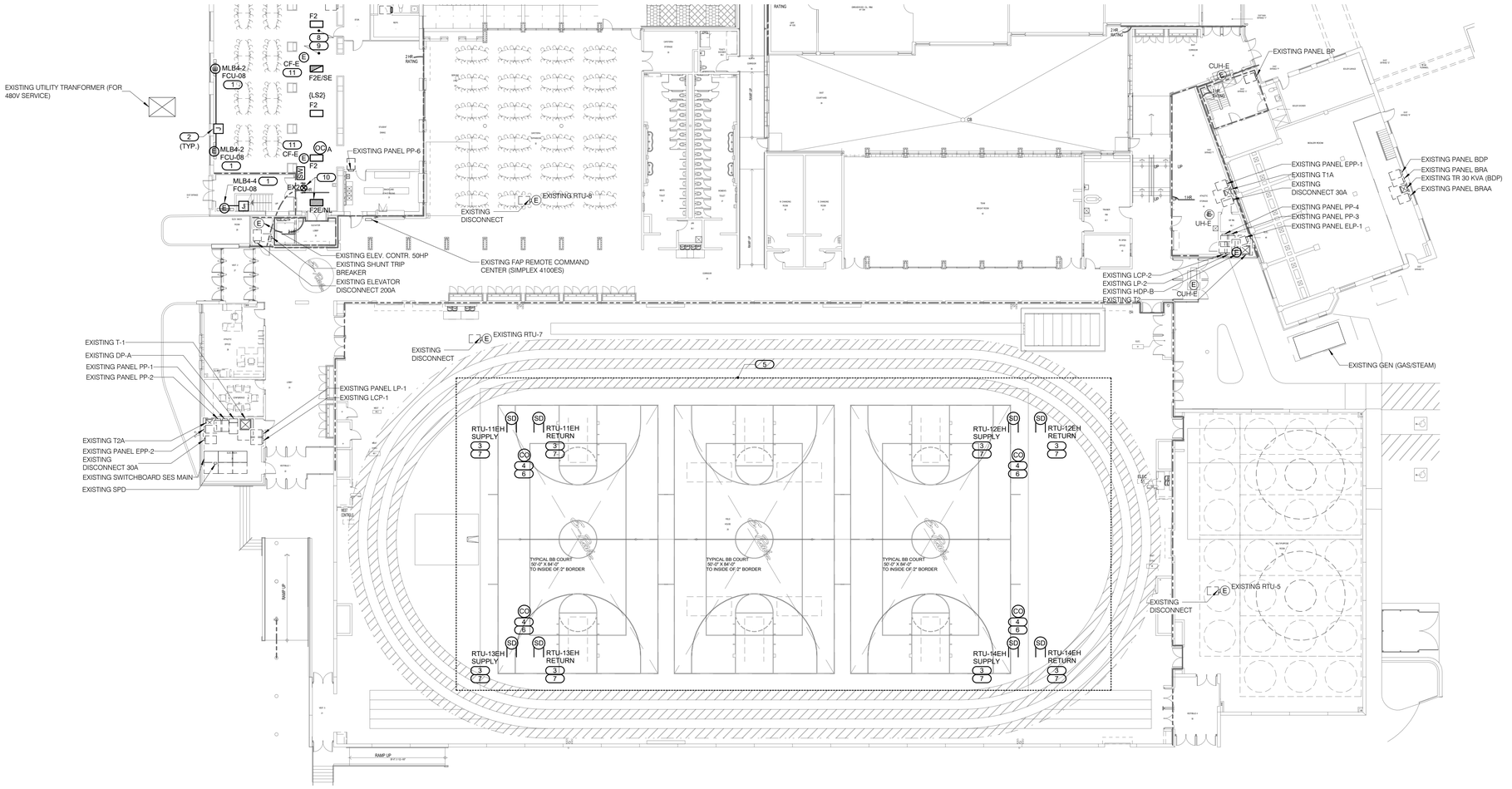
21002885.04 1/28/2022 9:06:47 PM ESSER HVAC Improvements - East High School

SHEET NOTES:

1. E.C. TO RUN NEW MECHANICAL BRANCH CIRCUITS IN MECHANICAL VERTICAL CHASE FOR ALL FCU UNITS.
2. PROVIDE ARCHITECTURAL SURFACE RACEWAY TO INSTALL THE NEW DEVICE ON EXISTING WALL IN PUBLIC FINISHED SPACES WHERE WALLS ARE FINISHED. IF APPLICABLE, THE CONTRACTOR IS ALLOWED TO INSTALL NEW LIGHTING CONTROL/OUTLET/FIRE ALARM DEVICE IN EXISTING RECESSED BACKBOX AND UTILIZE EXISTING CONCEALED CONDUIT TO RUN NEW WIRING. REFER TO DETAIL 4/E400 FOR SURFACE WIREWAY DETAIL.

KEYNOTES: (#)

1. DISCONNECT AND/OR CONTROLLER/STARTER PROVIDED BY OTHERS AND WIRED BY EC.
2. ROUTE THE CONDUIT CONCEALED IN THE SAME CHASE USED FOR MECHANICAL PIPING.
3. INSTALL SAMPLING TUBES PER MANUFACTURER'S INSTRUCTIONS IN STRAIGHT RUN OF DUCT. COORDINATE INSTALLATION WITH M.C. PRIOR TO ROUGH-IN, SEAL ALL DUCT PENETRATION AIR-TIGHT.
4. CONNECT TO THE EXISTING FIRE ALARM DETECTION CIRCUIT AVAILABLE ON THIS FLOOR AS RECOMMENDED BY THE FIRE ALARM MANUFACTURER.
5. THIS WORK TO BE COMPLETED UNDER ALTERNATE BID#1 CONTRACT.
6. MOUNT FIRE ALARM 'CO' SENSOR CLOSEST TO THE FIRST DUCT SUPPLY ENTRY IN THIS SPACE.
7. REUSE EXISTING FIRE ALARM DEVICE. CONNECT TO EXISTING FIRE ALARM DETECTION CIRCUIT WIRING RETAINED DURING DEMOLITION WORK IN THIS AREA. PROVIDE NEW WIRING AS RECOMMENDED BY THE FIRE ALARM MANUFACTURER.
8. ALL EXISTING CEILING MOUNT DEVICES (I.E. DETECTORS, ETC.) TO BE REINSTALLED AND RECONNECTED TO EXISTING WIRING CIRCUIT RETAINED DURING DEMOLITION WORK.
9. UNLESS NOTED OTHERWISE, EXTEND EXISTING LIGHTING CIRCUIT, RETAINED DURING DEMOLITION WORK, TO SERVE SHOWN NEW LIGHTS VIA NEW LIGHTING CONTROLS. PROVIDE NEW WIRING (2#12 & 1#12 GND. IN 1/2"C.) AS REQUIRED.
10. EXTEND UNSWITCHED LEG OF EXISTING LIGHTING CIRCUIT TO SERVE SHOWN NEW NIGHT LIGHTS/EXIT SIGNS. PROVIDE NEW WIRING AND CONDUIT (2#12 & 1#12GND. IN 1/2"C.) AS REQUIRED.
11. EXTEND EXISTING MECHANICAL UNIT CIRCUIT RETAINED DURING DEMOLITION WORK IN THIS AREA. INTERCEPT EXISTING WIRING/CONDUIT AND PROVIDE NEW WIRING IN NEW CONDUIT (MATCH WITH EXISTING WIRE SIZE AND TYPE), IN THE ACCESSIBLE ABOVE CEILING, TO SERVE THE REUSED EQUIPMENT AFTER COMPLETION OF NEW CEILING WORK IN THIS AREA.



BASEMENT - ELECTRICAL - AREA E

1/16" = 1'-0"

NORTH

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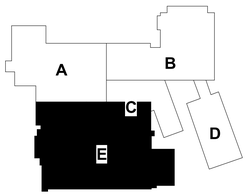
KEY PLAN



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REVISIONS

No.	Date	Revision / Issue

SHEET INFORMATION

Issue	**BID DOCUMENTS**
Date	**JANUARY 28, 2022**
Job Number	**21002885.04**
Drawn	**Author**
Checked	**Checker**
Approved	**Approver**

SHEET TITLE

BASEMENT - ELECTRICAL - AREA E

SCALE

Scale: **As indicated**

SHEET NUMBER

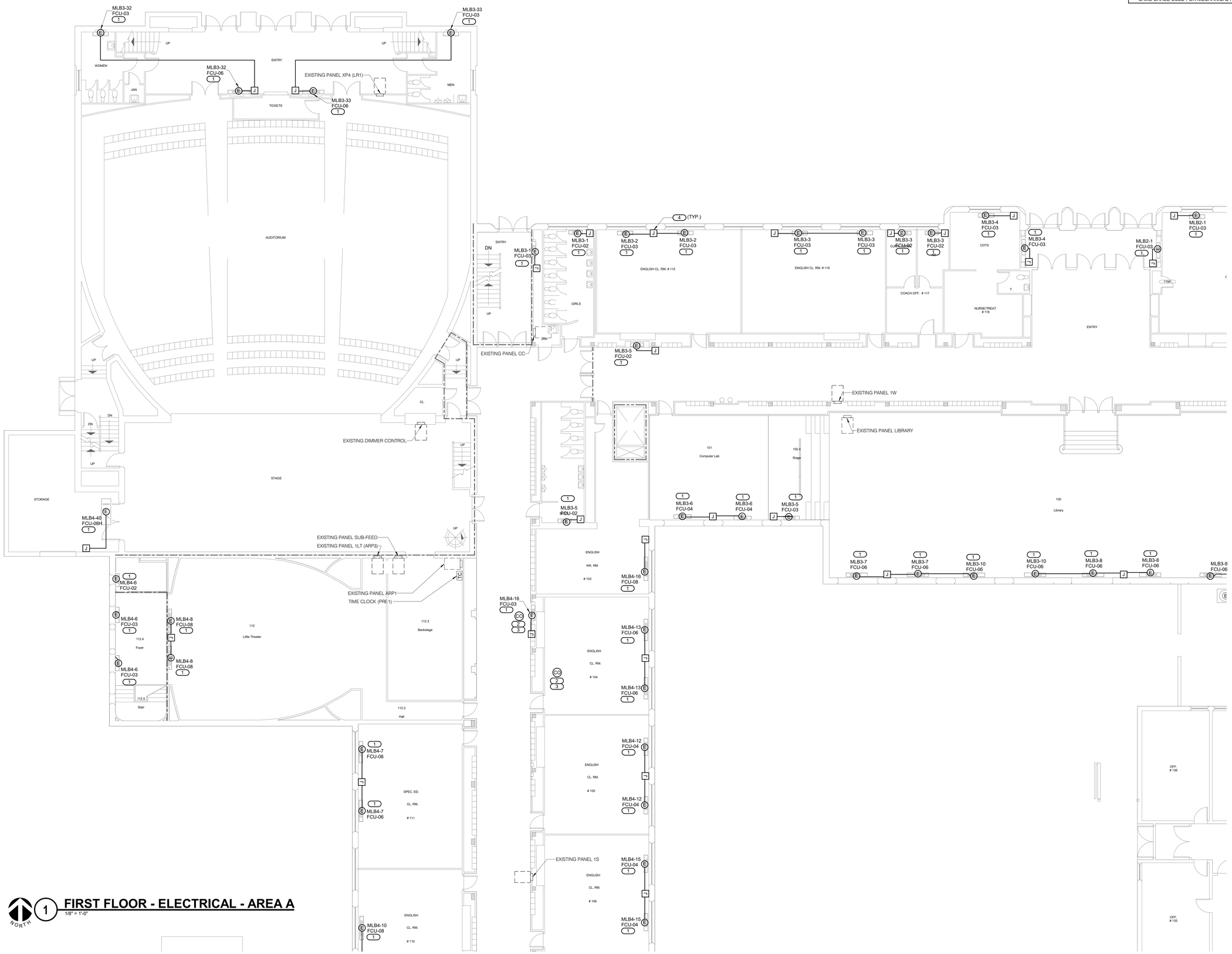
E200E

SHEET NOTES:

1. E.C. TO RUN NEW MECHANICAL BRANCH CIRCUITS IN MECHANICAL VERTICAL CHASE FOR ALL FCU UNITS.

KEYNOTES: #

1. DISCONNECT AND/OR CONTROLLER/STARTER PROVIDED BY OTHERS AND WIRED BY EC.
2. CONNECT TO THE EXISTING FIRE ALARM DETECTION CIRCUIT AVAILABLE ON THIS FLOOR AS RECOMMENDED BY THE FIRE ALARM MANUFACTURER.
3. MOUNT FIRE ALARM 'CO' SENSOR CLOSEST TO THE FIRST DUCT SUPPLY ENTRY IN THIS SPACE.
4. ROUTE THE CONDUIT CONCEALED IN THE SAME CHASE USED FOR MECHANICAL PIPING.



1 FIRST FLOOR - ELECTRICAL - AREA A

1/8" = 1'-0"

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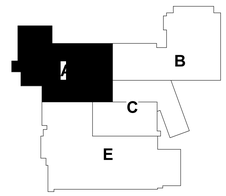
KEY PLAN



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Drawn	**Author**
Checked	**Checker**
Approved	**Approver**

SHEET TITLE

FIRST FLOOR - ELECTRICAL - AREA A

SCALE

Scale: **As indicated**

SHEET NUMBER

E201A

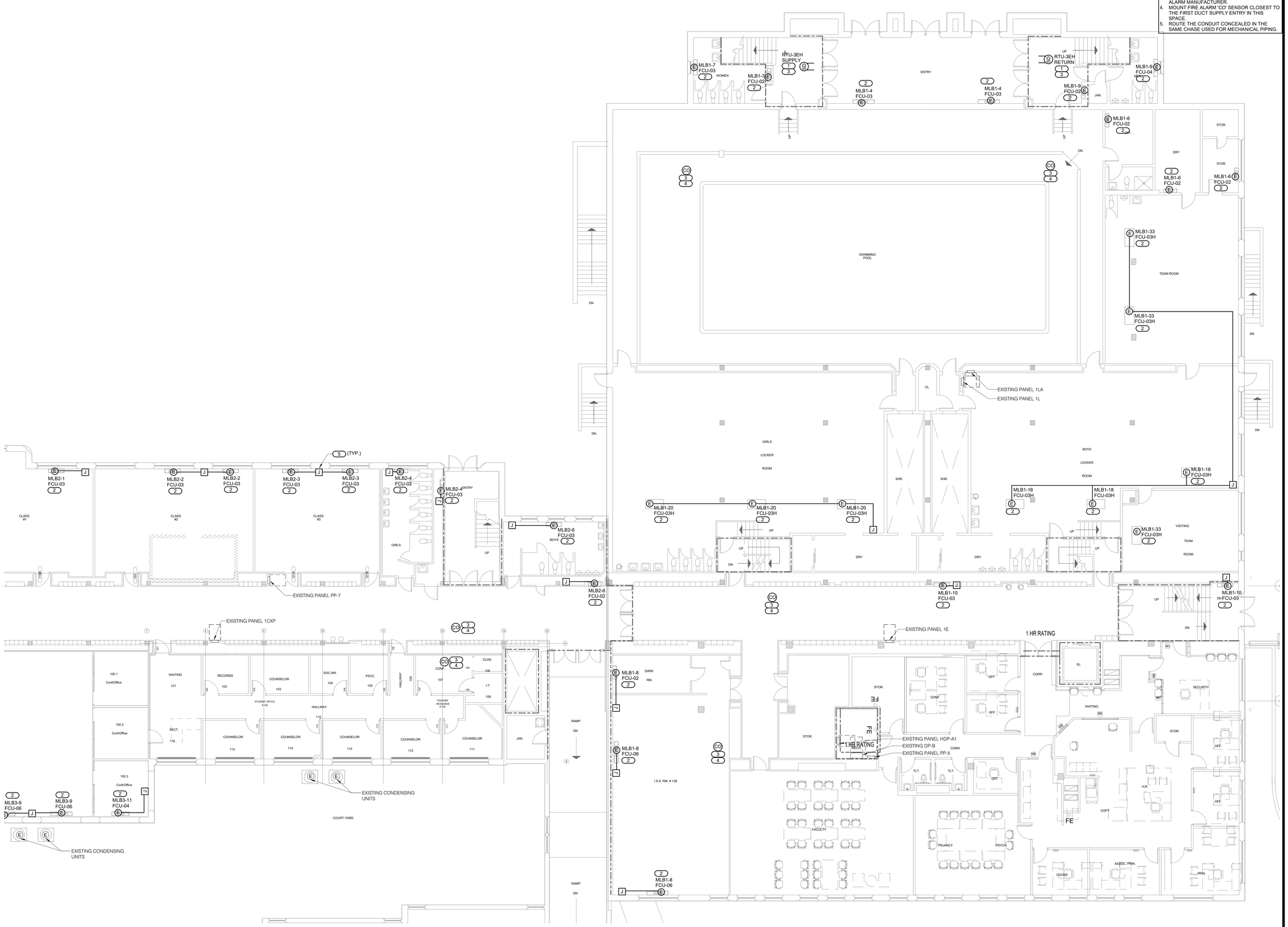
21002885.04 1/28/2022 9:06:54 PM ESSER HVAC Improvements - East High School

SHEET NOTES:

1. E.C. TO RUN NEW MECHANICAL BRANCH CIRCUITS IN MECHANICAL VERTICAL CHASE FOR ALL FCU UNITS.

KEYNOTES: (#)

1. INSTALL SAMPLING TUBES PER MANUFACTURER'S INSTRUCTIONS IN STRAIGHT RUN OF DUCT. COORDINATE INSTALLATION WITH M.C. PRIOR TO ROUGH-IN, SEAL ALL DUCT PENETRATION AIR-TIGHT.
2. DISCONNECT AND/OR CONTROLLER/STARTER PROVIDED BY OTHERS AND WIRED BY EC.
3. CONNECT TO THE EXISTING FIRE ALARM DETECTION CIRCUIT AVAILABLE ON THIS FLOOR AS RECOMMENDED BY THE FIRE ALARM MANUFACTURER.
4. MOUNT FIRE ALARM 'CO' SENSOR CLOSEST TO THE FIRST DUCT SUPPLY ENTRY IN THIS SPACE.
5. ROUTE THE CONDUIT CONCEALED IN THE SAME CHASE USED FOR MECHANICAL PIPING.



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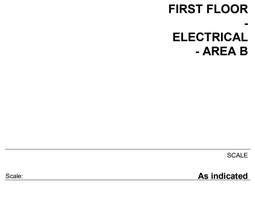
KEY PLAN



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Checked	**Checker**
Approved	**Approver**

SHEET TITLE

FIRST FLOOR - ELECTRICAL - AREA B

SCALE

Scale: **As indicated**

SHEET NUMBER

E201B

1 **FIRST FLOOR - ELECTRICAL - AREA B**
1/8" = 1'-0"

NORTH

ESSER HVAC Improvements - East High School
1/28/2022 9:06:58 PM
21002885.04

SHEET NOTES:

1. E.C. TO RUN NEW MECHANICAL BRANCH CIRCUITS IN MECHANICAL VERTICAL CHASE FOR ALL FCU UNITS.

KEYNOTES: (#)

1. DISCONNECT AND/OR CONTROLLER/STARTER PROVIDED BY OTHERS AND WIRED BY EC.
2. ROUTE THE CONDUIT CONCEALED IN THE SAME CHASE USED FOR MECHANICAL PIPING.

1 FIRST FLOOR - ELECTRICAL - AREA E

1/16" = 1'-0"

NORTH

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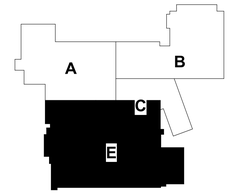

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Drawn	**Author**
Checked	**Checker**
Approved	**Approver**

SHEET TITLE

FIRST FLOOR - ELECTRICAL - AREA E

SCALE

Scale: **As indicated**

SHEET NUMBER

E201E

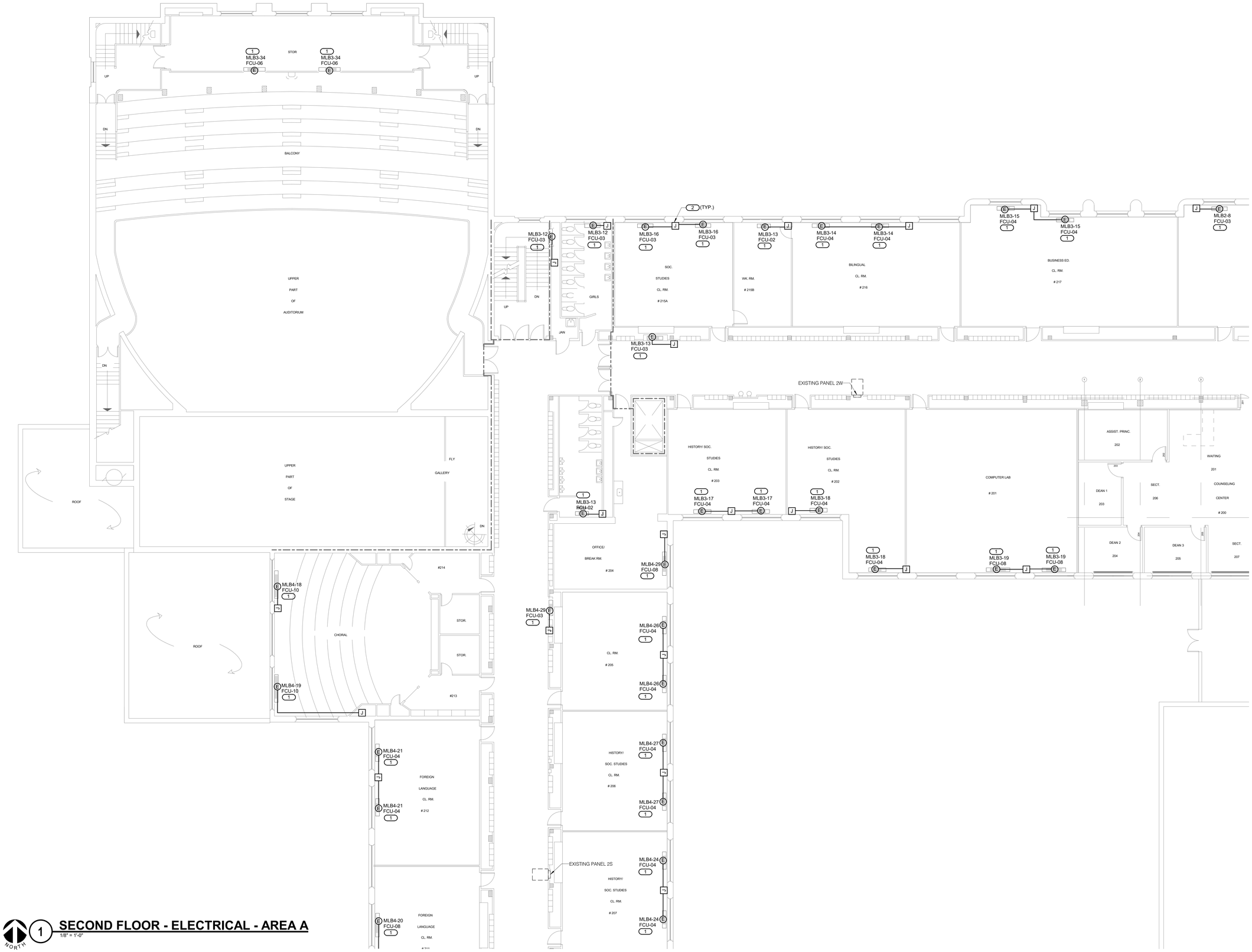
21002885.04 1/28/2022 9:07:00 PM ESSER HVAC Improvements - East High School

SHEET NOTES:

1. E.C. TO RUN NEW MECHANICAL BRANCH CIRCUITS IN MECHANICAL VERTICAL CHASE FOR ALL FCU UNITS.

KEYNOTES: (#)

1. DISCONNECT AND/OR CONTROLLER/STARTER PROVIDED BY OTHERS AND WIRED BY EC.
2. ROUTE THE CONDUIT CONCEALED IN THE SAME CHASE USED FOR MECHANICAL PIPING.



NORTH

1 **SECOND FLOOR - ELECTRICAL - AREA A**

1/8" = 1'-0"

21002885.04 1/28/2022 9:07:02 PM ESSER HVAC Improvements - East High School

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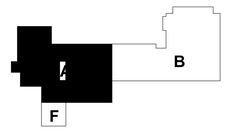

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Job Number	**21002885.04**
Drawn	**Author**
Checked	**Checker**
Approved	**Approver**

SHEET TITLE

SECOND FLOOR - ELECTRICAL - AREA A

SCALE

Scale: **As indicated**

SHEET NUMBER

E202A

SHEET NOTES:

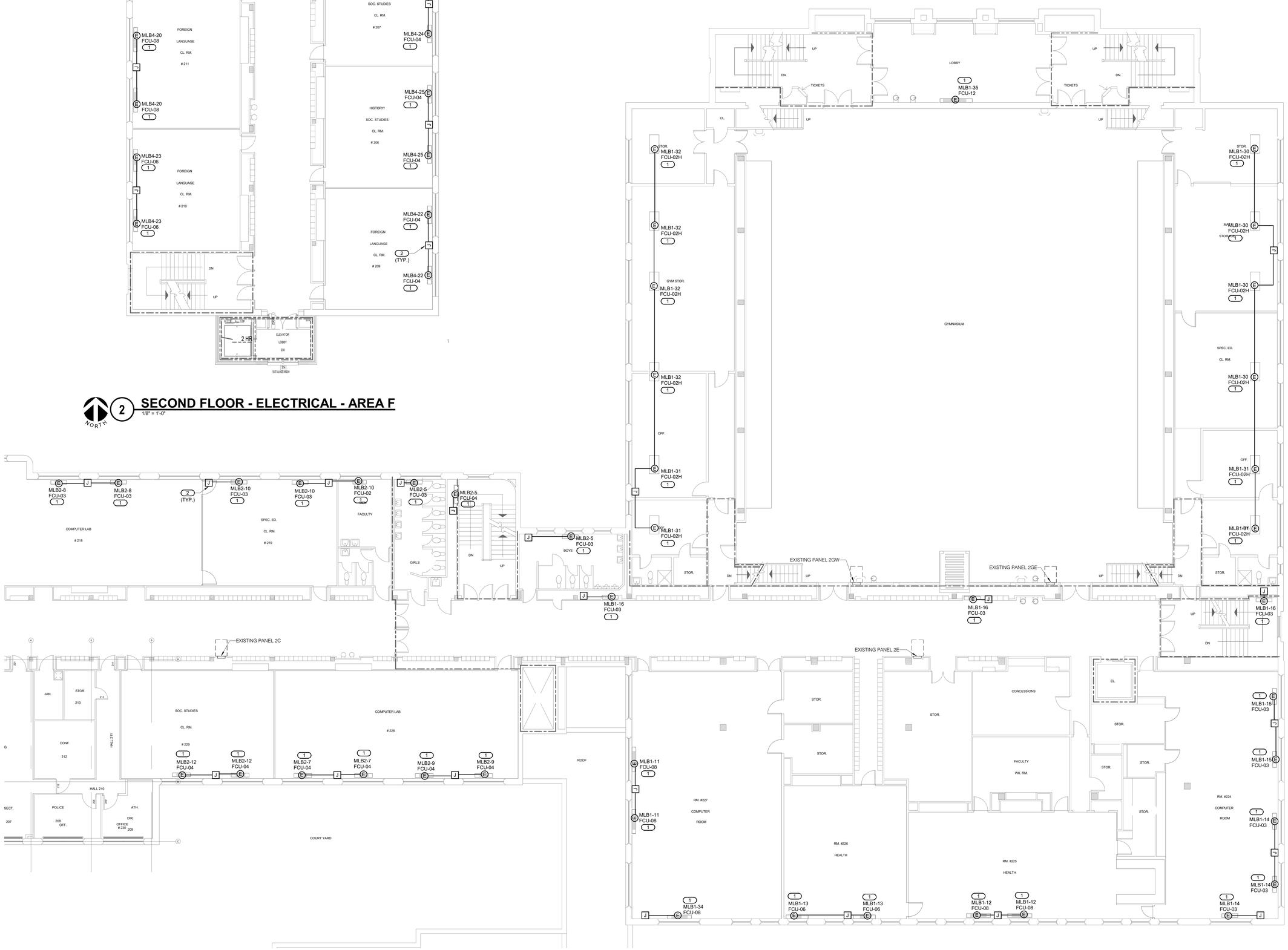
1. E.C. TO RUN NEW MECHANICAL BRANCH CIRCUITS IN MECHANICAL VERTICAL CHASE FOR ALL FCU UNITS.

KEYNOTES: (#)

1. DISCONNECT AND/OR CONTROLLER/STARTER PROVIDED BY OTHERS AND WIRED BY EC.
2. ROUTE THE CONDUIT CONCEALED IN THE SAME CHASE USED FOR MECHANICAL PIPING.

SECOND FLOOR - ELECTRICAL - AREA F

1/8" = 1'-0"



SECOND FLOOR - ELECTRICAL - AREA B

1/8" = 1'-0"

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Checked	**Checker**
Approved	**Approver**

SHEET TITLE

SECOND FLOOR - ELECTRICAL - AREA B & F

SCALE

Scale: **As indicated**

SHEET NUMBER

E202B

1/28/2022 9:07:05 PM ESSER HVAC Improvements - East High School 21002885.04

SHEET NOTES:

1. E.C. TO RUN NEW MECHANICAL BRANCH CIRCUITS IN MECHANICAL VERTICAL CHASE FOR ALL FCU UNITS.
2. PROVIDE ARCHITECTURAL SURFACE RACEWAY TO INSTALL THE NEW DEVICE ON EXISTING WALL IN PUBLIC FINISHED SPACES WHERE WALLS ARE FINISHED. IF APPLICABLE, THE CONTRACTOR IS ALLOWED TO INSTALL NEW LIGHTING CONTROL/OUTLET/FIRE ALARM DEVICE IN EXISTING RECESSED BACKBOX AND UTILIZE EXISTING CONCEALED CONDUIT TO RUN NEW WIRING. REFER TO DETAIL 4/E400 FOR SURFACE WIREWAY DETAIL.

KEYNOTES: (#)

1. ALL EXISTING CEILING MOUNT DEVICES (I.E. DETECTORS, ETC.) TO BE REINSTALLED AND RECONNECTED TO EXISTING WIRING CIRCUIT RETAINED DURING DEMOLITION WORK.
2. INSTALL SAMPLING TUBES PER MANUFACTURER'S INSTRUCTIONS IN STRAIGHT RUN OF DUCT. COORDINATE INSTALLATION WITH M.C. PRIOR TO ROUGH-IN. SEAL ALL DUCT PENETRATION AIR-TIGHT.
3. INSTALL NEW LIGHTING CONTROL DEVICE IN EXISTING BACKBOX AND RUN NEW LIGHTING CONTROLS WIRING IN EXISTING CONDUIT AS REQUIRED.
4. UNLESS NOTED OTHERWISE, EXTEND EXISTING LIGHTING CIRCUIT, RETAINED DURING DEMOLITION WORK, TO SERVE SHOWN NEW LIGHTS VIA NEW LIGHTING CONTROLS. PROVIDE NEW WIRING (2#12 & 1#12 GND. IN 1/2"C.) AS REQUIRED.
5. EXTEND UNSWITCHED LEG OF EXISTING LIGHTING CIRCUIT TO SERVE SHOWN NEW NIGHT LIGHTS/EXIT SIGNS. PROVIDE NEW WIRING AND CONDUIT (2#12 & 1#12GND. IN 1/2"C.) AS REQUIRED.
6. DISCONNECT AND/OR CONTROLLER/STARTER PROVIDED BY OTHERS AND WIRED BY EC.
7. CONNECT TO THE EXISTING FIRE ALARM DETECTION CIRCUIT AVAILABLE ON THIS FLOOR AS RECOMMENDED BY THE FIRE ALARM MANUFACTURER.
8. MOUNT FIRE ALARM 'CO' SENSOR CLOSEST TO THE FIRST DUCT SUPPLY ENTRY IN THIS SPACE.
9. ROUTE THE CONDUIT CONCEALED IN THE SAME CHASE USED FOR MECHANICAL PIPING.
10. FIELD COORDINATE FINAL OUTLET LOCATION WITH THE CEILING FAN INSTALLATION. NO EXPOSED CONDUIT RUN IS ALLOWED. CONDUIT SHALL BE CONCEALED IN ABOVE CEILING SPACE OR PROVIDE A ARCHITECTURAL SURFACE RACEWAY.

1 THIRD FLOOR - ELECTRICAL - AREA A

1/8" = 1'-0"

NORTH

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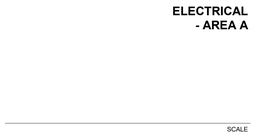

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Job Number	**21002885.04**
Drawn	**Author**
Checked	**Checker**
Approved	**Approver**

SHEET TITLE

THIRD FLOOR - ELECTRICAL - AREA A

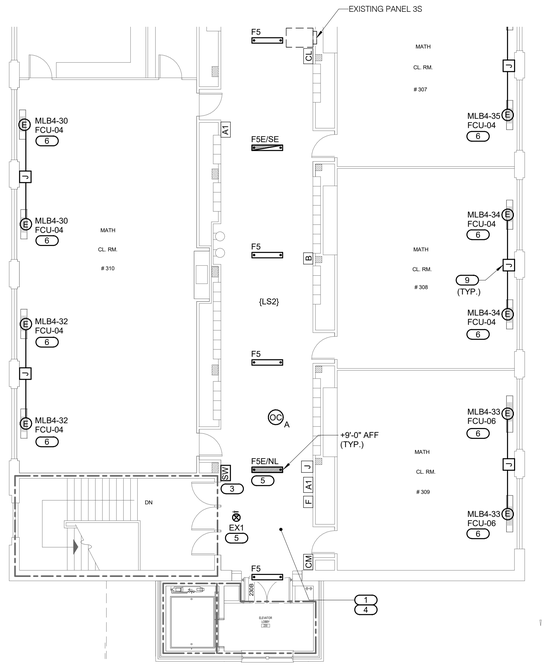
SCALE

Scale: **As indicated**

SHEET NUMBER

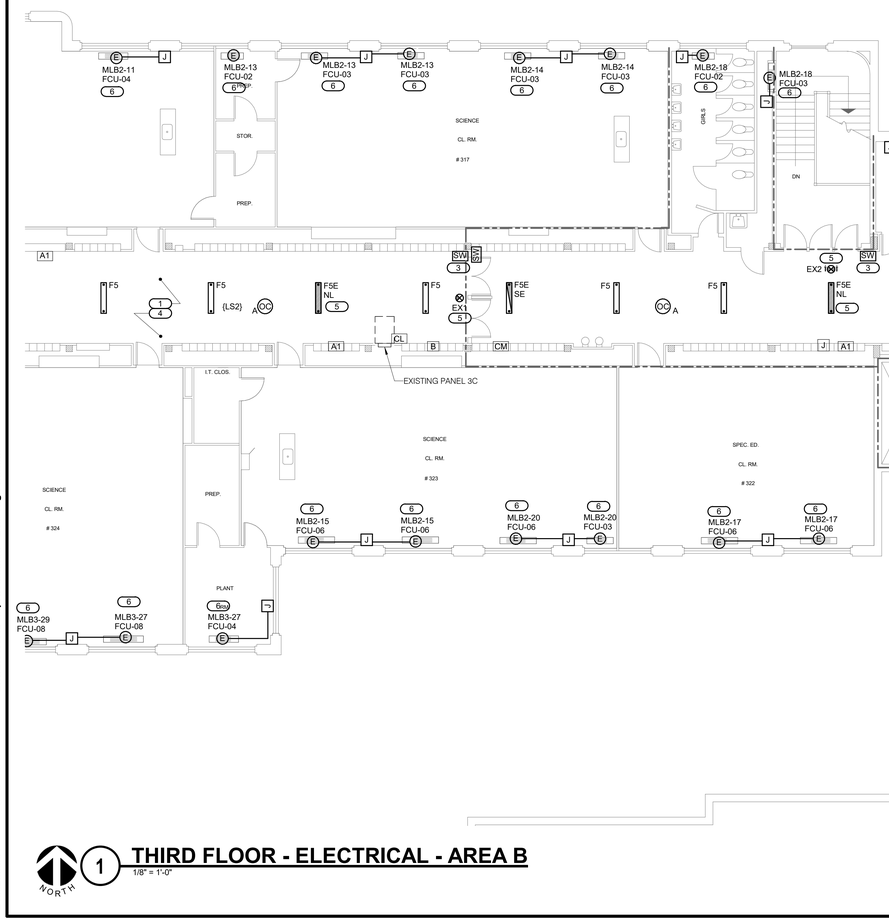
E203A

21002885.04 1/28/2022 9:07:08 PM ESSER HVAC Improvements - East High School



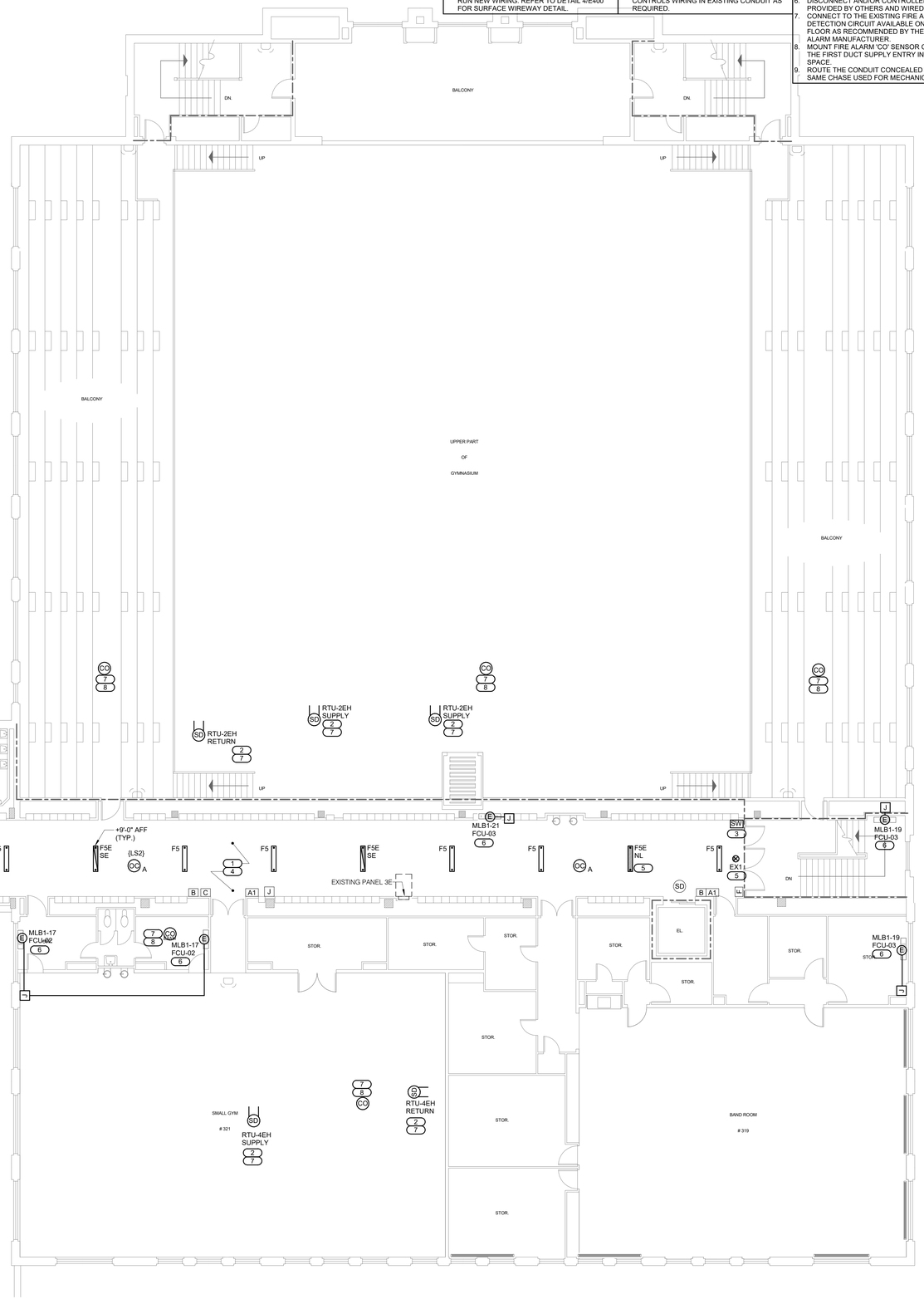
THIRD FLOOR - ELECTRICAL - AREA F

1/8" = 1'-0"



THIRD FLOOR - ELECTRICAL - AREA B

1/8" = 1'-0"



SHEET NOTES:

1. E.C. TO RUN NEW MECHANICAL BRANCH CIRCUITS IN MECHANICAL VERTICAL CHASE FOR ALL FCU UNITS.
2. PROVIDE ARCHITECTURAL SURFACE RACEWAY TO INSTALL THE NEW DEVICE ON EXISTING WALL IN PUBLIC FINISHED SPACES WHERE WALLS ARE FINISHED. IF APPLICABLE, THE CONTRACTOR IS ALLOWED TO INSTALL NEW LIGHTING CONTROL/OUTLET/FIRE ALARM DEVICE IN EXISTING RECESSED BACKBOX AND UTILIZE EXISTING CONCEALED CONDUIT TO RUN NEW WIRING. REFER TO DETAIL 4/E400 FOR SURFACE WIREWAY DETAIL.

KEYNOTES: (#)

1. ALL EXISTING CEILING MOUNT DEVICES (I.E. DETECTORS, ETC.) TO BE REINSTALLED AND RECONNECTED TO EXISTING WIRING CIRCUIT RETAINED DURING DEMOLITION WORK.
2. INSTALL SAMPLING TUBES PER MANUFACTURER'S INSTRUCTIONS IN STRAIGHT RUN OF DUCT. COORDINATE INSTALLATION WITH M.C. PRIOR TO ROUGH-IN, SEAL ALL DUCT PENETRATION AIR-TIGHT.
3. INSTALL NEW LIGHTING CONTROL DEVICE IN EXISTING BACKBOX AND RUN NEW LIGHTING CONTROLS WIRING IN EXISTING CONDUIT AS REQUIRED.

KEYNOTES: (#)

4. UNLESS NOTED OTHERWISE, EXTEND EXISTING LIGHTING CIRCUIT, RETAINED DURING DEMOLITION WORK, TO SERVE SHOWN NEW LIGHTS VIA NEW LIGHTING CONTROLS. PROVIDE NEW WIRING (2#12 & 1#12 GND. IN 1/2"C.) AS REQUIRED.
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8. MOUNT FIRE ALARM 'CO' SENSOR CLOSEST TO THE FIRST DUCT SUPPLY ENTRY IN THIS SPACE.
9. ROUTE THE CONDUIT CONCEALED IN THE SAME CHASE USED FOR MECHANICAL PIPING.

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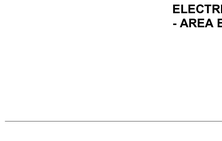
KEY PLAN



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SHEET INFORMATION

Issue	BID DOCUMENTS
Date	JANUARY 28, 2022
Job Number	21002885.04
Drawn	Author
Checked	Checker
Approved	Approver

SHEET TITLE

THIRD FLOOR - ELECTRICAL - AREA B & F

SCALE

Scale: As indicated

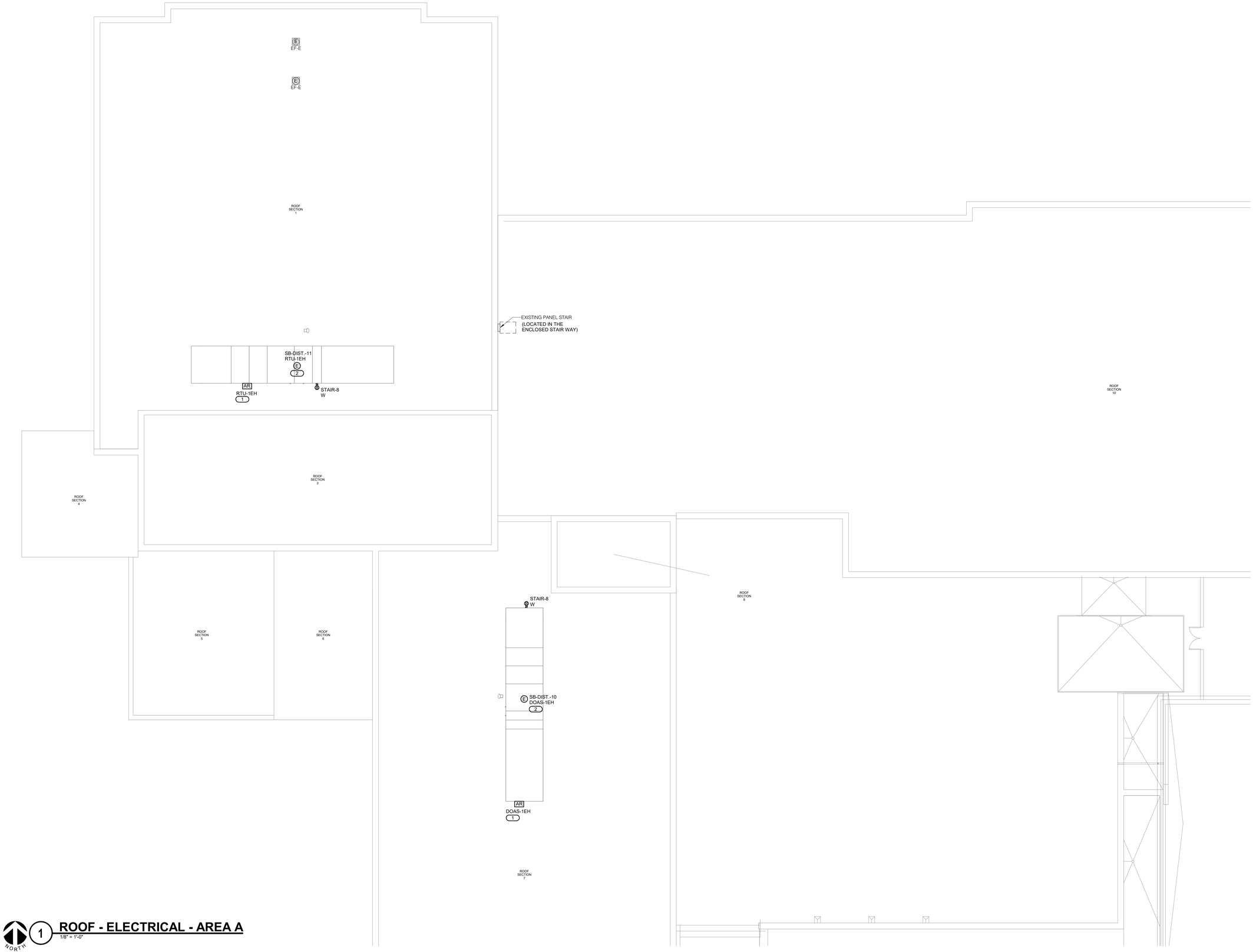
SHEET NUMBER

E203B

21002885.04 1/28/2022 9:07:12 PM ESSER HVAC Improvements - East High School

KEYNOTES: (#)

1. COORDINATE CONNECTIONS TO MOTOR CONTROLLER FOR UNIT SHUTDOWN. MOUNT ADDRESSABLE RELAY INSIDE THE UNIT AND WITHIN 3'-0" OF CONTROLLER. CONNECT TO NEAREST AVAILABLE EXISTING FIRE ALARM CONTROL CIRCUIT ON THIS AREA AS RECOMMENDED BY THE FIRE ALARM MANUFACTURER.
2. DISCONNECT AND CONTROLLER/STARTER PROVIDED BY OTHERS AND WIRED BY E.C.



1 NORTH **ROOF - ELECTRICAL - AREA A**
1/8" = 1'-0"

21002885.04 1/28/2022 9:07:14 PM ESSER HVAC Improvements - East High School

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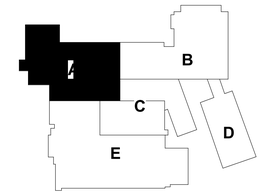
KEY PLAN



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Checked	**Checker**
Approved	**Approver**

SHEET TITLE
ROOF - ELECTRICAL - AREA A

SCALE
Scale: **As indicated**

SHEET NUMBER
E204A

KEYNOTES: (#)

1. COORDINATE CONNECTIONS TO MOTOR CONTROLLER FOR UNIT SHUTDOWN. MOUNT ADDRESSABLE RELAY INSIDE THE UNIT AND WITHIN 3'-0" OF CONTROLLER. CONNECT TO NEAREST AVAILABLE EXISTING FIRE ALARM CONTROL CIRCUIT ON THIS AREA AS RECOMMENDED BY THE FIRE ALARM MANUFACTURER.
2. DISCONNECT AND CONTROLLER/STARTER PROVIDED BY OTHERS AND WIRED BY E.C.

1 **ROOF - ELECTRICAL - AREA B**
1/8" = 1'-0"

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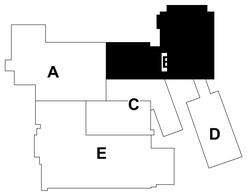
KEY PLAN



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SHEET TITLE

ROOF - ELECTRICAL - AREA B

SCALE

Scale: **As indicated**

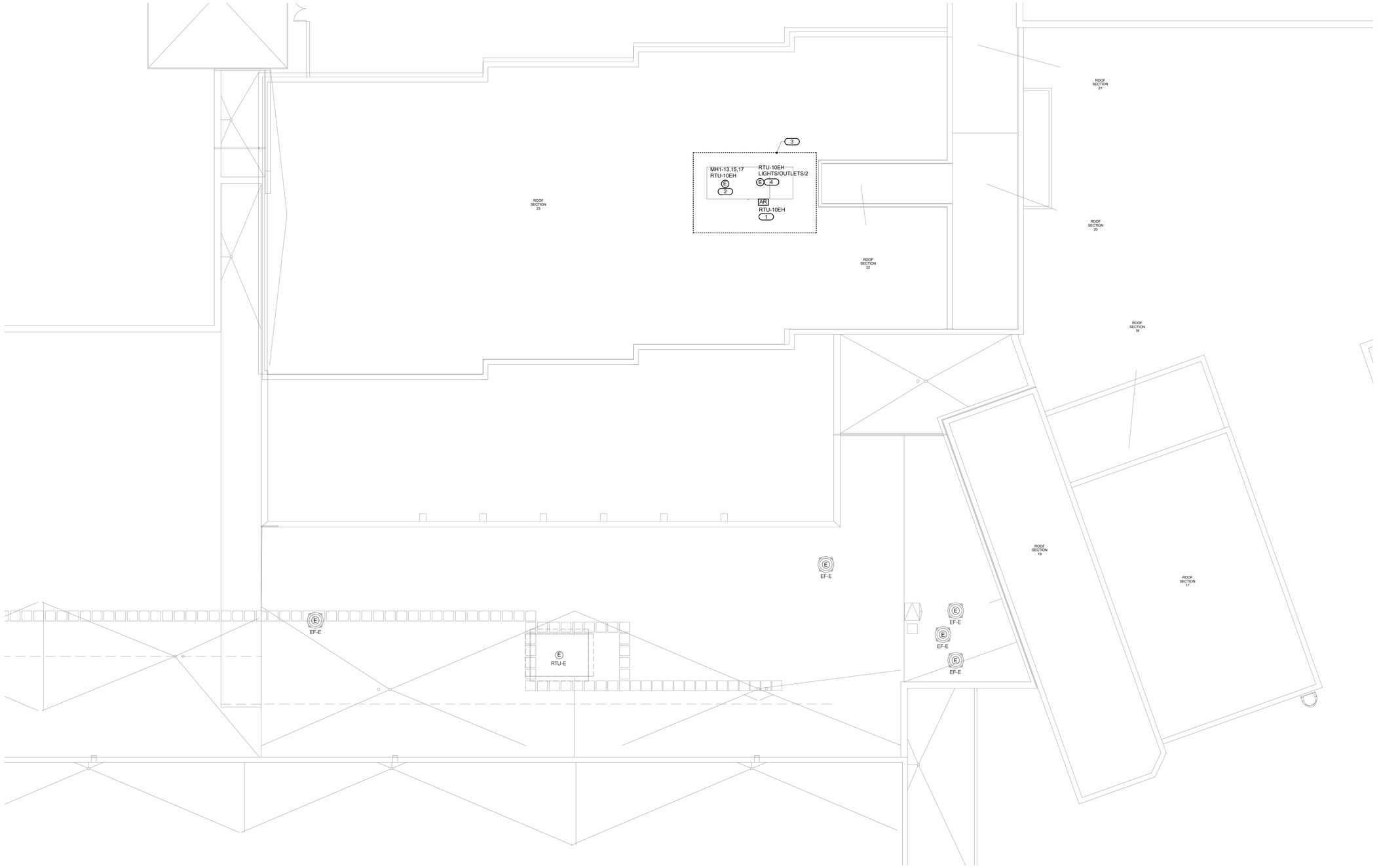
SHEET NUMBER

E204B

21002885.04 1/28/2022 9:07:16 PM ESSER HVAC Improvements - East High School

KEYNOTES: (#)

1. COORDINATE CONNECTIONS TO MOTOR CONTROLLER FOR UNIT SHUTDOWN. MOUNT ADDRESSABLE RELAY INSIDE THE UNIT AND WITHIN 3'-0" OF CONTROLLER. CONNECT TO NEAREST AVAILABLE EXISTING FIRE ALARM CONTROL CIRCUIT ON THIS AREA AS RECOMMENDED BY THE FIRE ALARM MANUFACTURER.
2. DISCONNECT AND CONTROLLER/STARTER PROVIDED BY OTHERS AND WIRED BY E.C.
3. THIS WORK TO BE COMPLETED UNDER ALTERNATE BID#2 CONTRACT.
4. CIRCUIT NUMBER(S) ARE FOR REFERENCE ONLY. E.C. SHALL USE EXISTING 20A/1P, 120V RATED SPARE BREAKER WITH 2#12 & 1#12 GND IN 3/4" C. FOR CIRCUITING FROM EXISTING PANEL 'CS (A)'. E.C. SHALL USE NEW CONDUITS AND WIRE FOR THE CIRCUITS FROM THE PANEL. FIELD VERIFY THE EXACT AVAILABLE SPARE.



1 ROOF - ELECTRICAL - AREA C

1/8" = 1'-0"

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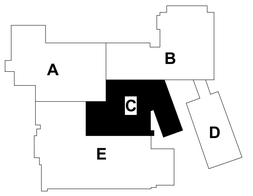
KEY PLAN



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Checked	**Checker**
Approved	**Approver**

SHEET TITLE

ROOF - ELECTRICAL - AREA C

SCALE

Scale: **As indicated**

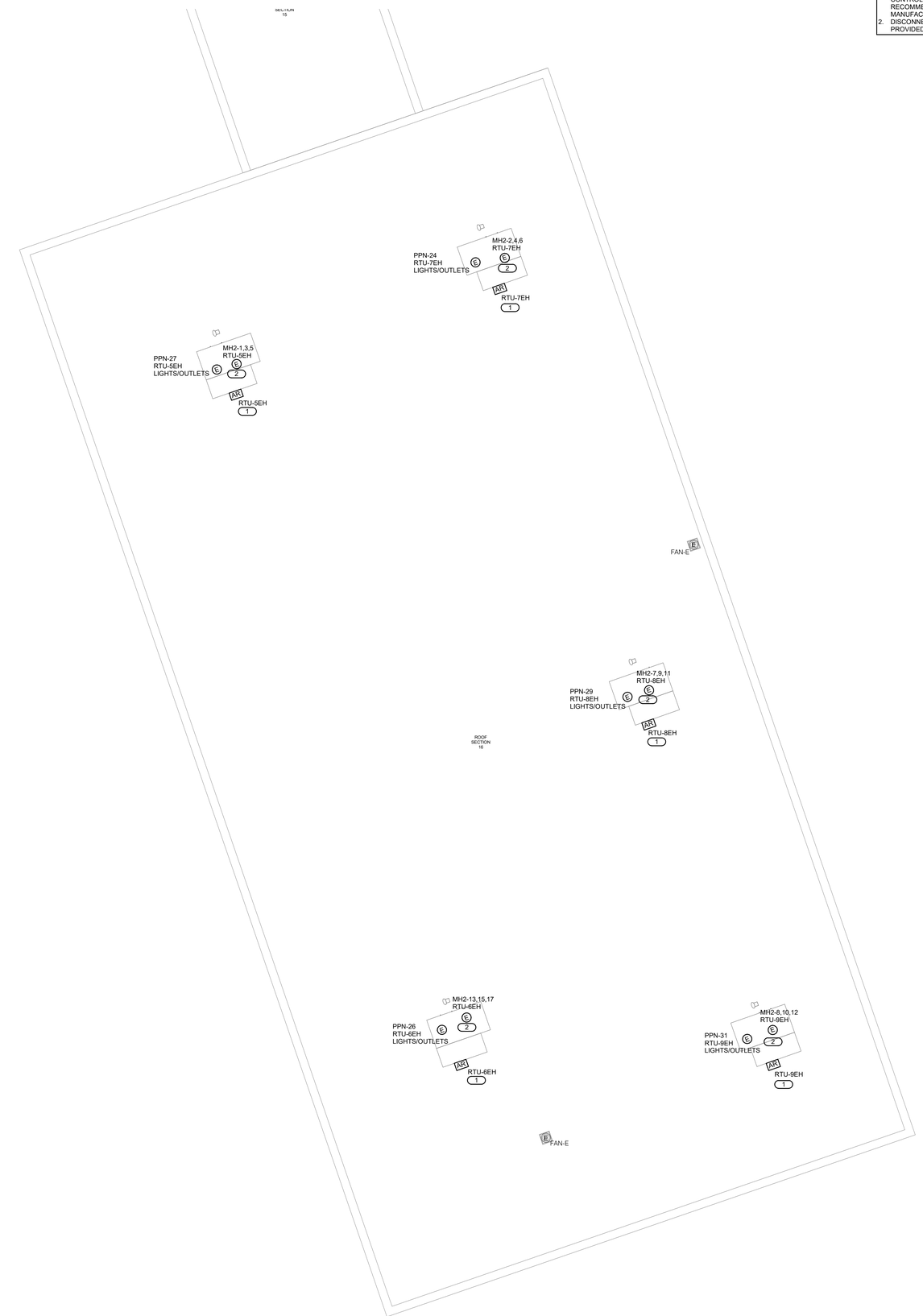
SHEET NUMBER

E204C

21002885.04 1/28/2022 9:07:17 PM ESSER HVAC Improvements - East High School

KEYNOTES: (#)

1. COORDINATE CONNECTIONS TO MOTOR CONTROLLER FOR UNIT SHUTDOWN. MOUNT ADDRESSABLE RELAY INSIDE THE UNIT AND WITHIN 3'-0" OF CONTROLLER. CONNECT TO NEAREST AVAILABLE EXISTING FIRE ALARM CONTROL CIRCUIT ON THIS AREA AS RECOMMENDED BY THE FIRE ALARM MANUFACTURER.
2. DISCONNECT AND CONTROLLER/STARTER PROVIDED BY OTHERS AND WIRED BY E.C.



NORTH

1 ROOF - ELECTRICAL - AREA D

1/8" = 1'-0"

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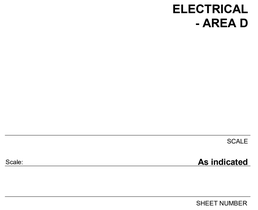
KEY PLAN



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SHEET TITLE

ROOF - ELECTRICAL - AREA D

SCALE

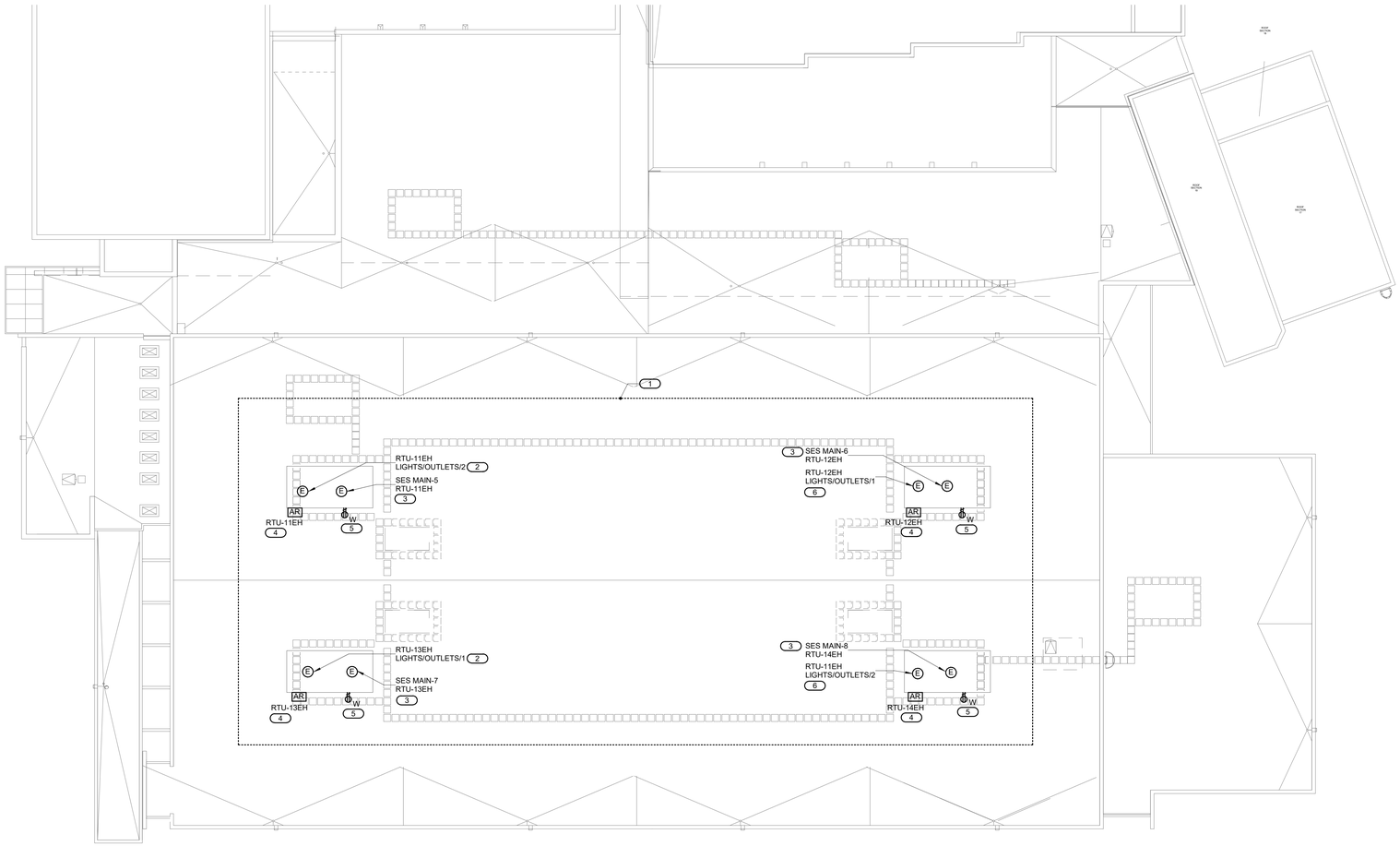
Scale: **As indicated**

SHEET NUMBER

E204D

KEYNOTES:

1. THIS WORK TO BE COMPLETED UNDER ALTERNATE BID#1 CONTRACT.
2. CIRCUIT NUMBER(S) ARE FOR REFERENCE ONLY. E.C. SHALL USE EXISTING 20A/1P, 120V RATED SPARE BREAKER WITH 2#12 & 1#12 GND IN 3/4" C. FOR CIRCUTING FROM EXISTING PANEL 'PP-2'. E.C. SHALL USE NEW CONDUITS AND WIRE FOR THE CIRCUITS FROM THE PANEL. FIELD VERIFY THE EXACT AVAILABLE SPARE.
3. DISCONNECT AND CONTROLLER/STARTER PROVIDED BY OTHERS AND WIRED BY E.C.
4. COORDINATE CONNECTIONS TO MOTOR CONTROLLER FOR UNIT SHUTDOWN. MOUNT ADDRESSABLE RELAY INSIDE THE UNIT AND WITHIN 3'-0" OF CONTROLLER. CONNECT TO EXISTING FIRE ALARM CONTROL CIRCUIT WIRING SAVED DURING DEMOLITION WORK IN THIS AREA. PROVIDE NEW WIRING AS RECOMMENDED BY THE FIRE ALARM MANUFACTURER.
5. CONNECT TO EXISTING BRANCH CIRCUIT WIRING SAVED DURING DEMOLITION WORK IN THIS AREA. PROVIDE NEW WIRING IN NEW CONDUIT (MATCH EXISTING TYPE AND SIZE) AS REQUIRED.
6. CIRCUIT NUMBER(S) ARE FOR REFERENCE ONLY. E.C. SHALL USE EXISTING 20A/1P, 120V RATED SPARE BREAKER WITH 2#12 & 1#12 GND IN 3/4" C. FOR CIRCUTING FROM EXISTING PANEL 'PP-4'. E.C. SHALL USE NEW CONDUITS AND WIRE FOR THE CIRCUITS FROM THE PANEL. FIELD VERIFY THE EXACT AVAILABLE SPARE.



1 ROOF - ELECTRICAL - AREA E

1/16" = 1'-0"

NORTH

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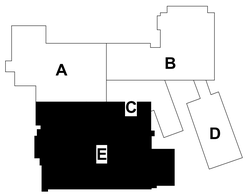
KEY PLAN



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Checked	**Checker**
Approved	**Approver**

SHEET TITLE

ROOF - ELECTRICAL - AREA E

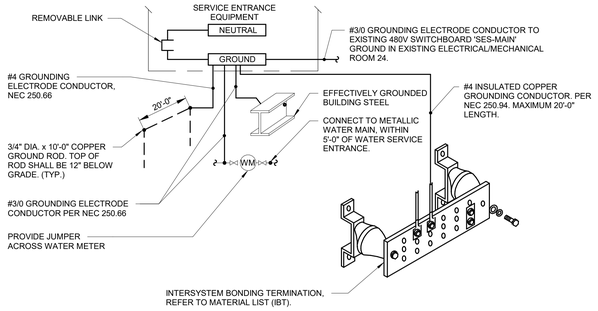
SCALE

Scale: **As indicated**

SHEET NUMBER

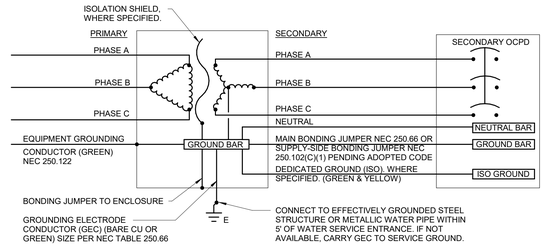
E204E

21002885.04 1/28/2022 9:07:20 PM ESSER HVAC Improvements - East High School



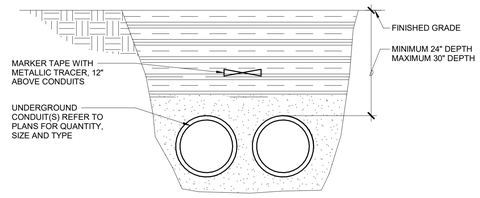
1 SERVICE ENTRANCE GROUNDING ELECTRODE SYSTEM

NO SCALE



2 TRANSFORMER WIRING DETAILS

NO SCALE

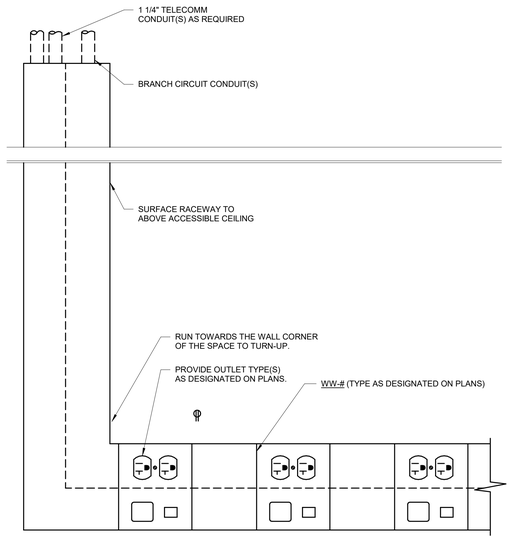


3 UNDERGROUND CONDUIT DETAIL

NO SCALE

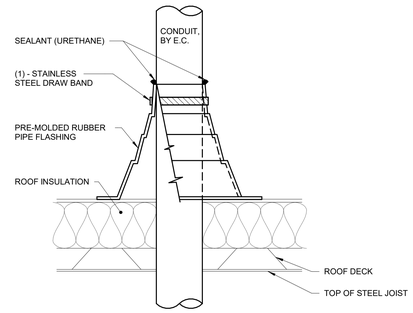
NOTES:

1. INSTALL 200 lb TENSILE STRENGTH PULL ROPE IN ALL EMPTY CONDUITS.
2. TRENCHING AND BACKFILL ACCORDING TO SPECIFICATION SECTION 26 05 00.



4 SURFACE WIREWAY DETAIL

NO SCALE



5 CONDUIT ROOF PENETRATION

NO SCALE

NOTES:

1. CONDUIT SHALL BE SUPPORTED WITHIN 24 INCHES ABOVE AND BELOW ROOF.
2. VERIFY FINAL REQUIREMENTS WITH GENERAL CONTRACTOR (G.C.) AND ROOFING INSTALLER PRIOR TO INSTALLATION.

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Approved	**Approver**

SHEET TITLE

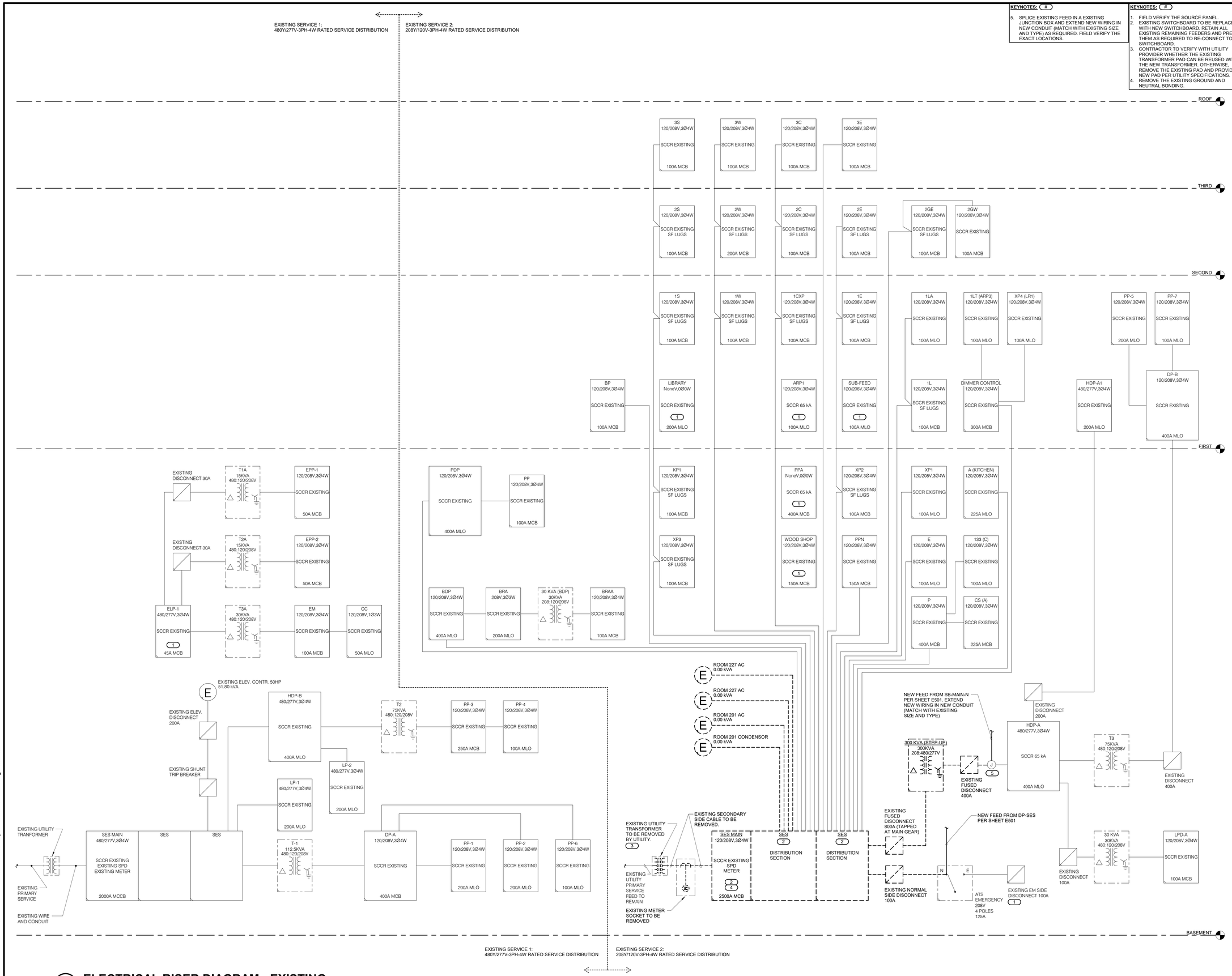
ELECTRICAL DETAILS

SCALE

Scale:

SHEET NUMBER

E400



1 **ELECTRICAL RISER DIAGRAM - EXISTING**
NO SCALE

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SHEET TITLE
ELECTRICAL RISER DIAGRAM - EXISTING

SCALE
Scale:

SHEET NUMBER
E500

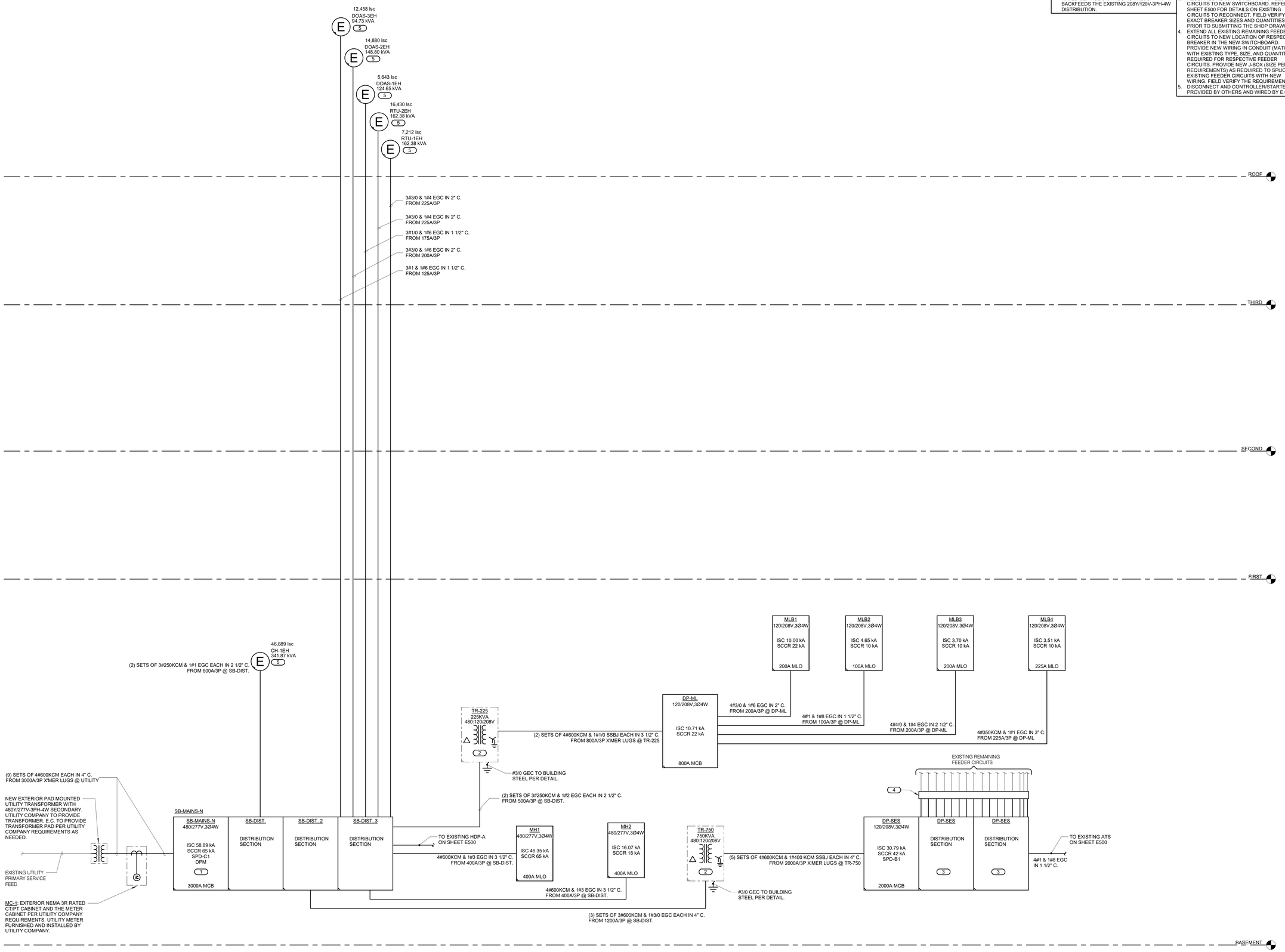
21002885.04 1/28/2022 9:07:22 PM ESSER HVAC Improvements - East High School

SHEET NOTES:

1. EXISTING SERVICE #1: 480Y/277V-3PH-4W RATED SERVICE DISTRIBUTION - NOT SHOWN ON THIS SHEET.
2. NEW SERVICE #2: NEW 480Y/277V-3PH-4W RATED SERVICE DISTRIBUTION ALSO BACKFEEDS THE EXISTING 208Y/120V-3PH-4W DISTRIBUTION.

KEYNOTES: (#)

1. REFER TO 1/E400 FOR SERVICE ENTRANCE GROUNDING DETAIL.
2. REFER TO 2/E400 FOR TRANSFORMER WIRING DETAIL.
3. RECONNECT EXISTING REMAINING FEEDER CIRCUITS TO NEW SWITCHBOARD. REFER TO SHEET E500 FOR DETAILS ON EXISTING CIRCUITS TO RECONNECT. FIELD VERIFY THE EXACT BREAKER SIZES AND QUANTITIES PRIOR TO SUBMITTING THE SHOP DRAWINGS.
4. EXTEND ALL EXISTING REMAINING FEEDER CIRCUITS TO NEW LOCATION OF RESPECTIVE BREAKER IN THE NEW SWITCHBOARD. PROVIDE NEW WIRING IN CONDUIT (MATCH WITH EXISTING TYPE, SIZE, AND QUANTITY) AS REQUIRED FOR RESPECTIVE FEEDER CIRCUITS. PROVIDE NEW J-BOX (SIZE PER NEC REQUIREMENTS) AS REQUIRED TO SPLICE EXISTING FEEDER CIRCUITS WITH NEW WIRING. FIELD VERIFY THE REQUIREMENTS.
5. DISCONNECT AND CONTROLLER/STARTER PROVIDED BY OTHERS AND WIRED BY E.C.



1 ELECTRICAL RISER DIAGRAM - NEW

NO SCALE

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SHEET TITLE

ELECTRICAL RISER DIAGRAM - NEW

SCALE

Scale:

SHEET NUMBER

E501

LIGHTING SEQUENCE OF OPERATION

NOTES:
1. {L##} DENOTES THE LIGHTING SEQUENCE OF OPERATIONS FOR THIS SPACE.
2. [SW] WALL CONTROLLER REFERS TO SCENE QUANTITY. CONTROL STATION SHALL BE CAPABLE OF [RAISE/LOWER AND] SWITCHING ON/OFF FOR MULTIPLE SCENES AS INDICATED ON SHEETS AND THE LIGHTING SEQUENCE OF OPERATIONS (L##). COORDINATE QUANTITIES OF BUTTONS FOR CONTROL STATIONS WITH LIGHTING CONTROL MANUFACTURER.
3. a = SWITCH DESIGNATION FOR LIGHTING CONTROL
4. VERIFY AND COORDINATE ALL PUSH BUTTON WALL DEVICES AND QUANTITIES OF INDIVIDUAL BUTTONS WITH SCENES AND ZONES PER LOCATION.
5. VERIFY AND COORDINATE ALL PUSH BUTTON QUANTITIES AND SCENE NAMES WITH OWNER PRIOR TO SUBMITTING ENGRAVING TEMPLATE TO MANUFACTURER.

PLAN ID	LIGHTING SWITCHED
{LD1}	Sequence: Dimmed lights are controlled in this space. ON: The lights turned on using the wall controller(s). If applicable in the space, the emergency luminaries (tagged SE on the plans) shall turn on during the loss of normal power. ADJUST: The dimming luminaires, including lights that are also tagged NL, are raised/lowered using the controller(s). OFF: The lights turn off manually using the wall controller(s). After the space has been vacant for 20 minutes, the lights will automatically turn off.
{LS1}	Sequence: Switched lights are controlled in this space. ON: The lights turn on using the switch(es). If applicable in the space, the emergency luminaries (tagged 'EM' on the plans) shall turn on during the loss of normal power. If applicable in the space, luminaries that are tagged 'NL' remain on all the time. OFF: The lights turn off using the switch(es). If applicable in the space, luminaires that are tagged 'NL' shall dim to 50% level. Emergency Sequence: The emergency units (where provided) are to be tied to unswitched leg of lighting circuit serving that space and shall automatically turn on upon loss of normal power.
{LS2}	Sequence: Switched lights are controlled in this space. ON: The lights are turn on using the wall controller(s) or upon occupancy sensor. If applicable in the space, the emergency luminaries (tagged 'SE' on the plans) shall turn on during the loss of normal power. If applicable in the space, luminaries that are tagged 'NL' remain on all the time. OFF: The lights turn off using the wall controller(s). After the space has been vacant for 20 minutes, the lights will automatically turn off via occupancy sensor. If applicable in the space, luminaires that are tagged 'NL' shall dim to 50% level.

VARIABLE FREQUENCY DRIVE SCHEDULE

STARTER TYPE:	**ACCESSORIES & OPTIONS:**	
PWM - PULSE WIDTH MODULATED	SA - STANDARD ACCESSORIES	TA - TWO CONVERTIBLE AUXILIARY CONTACTS
12PWM - 12 PULSE PWM	(INCLUDES * ITEMS)	ISO - ISOLATION TRANSFORMER
18PWM - 18 PULSE PWM	*MA - MANUAL SPEED ADJUSTMENT	*SHZ - SKIP FREQUENCY CAPABILITY
LINE DISCONNECT:	*ET - ELECTRONIC THERMAL OVERLOADS	RSS - REMOTE START-STOP
DS - DISCONNECT SWITCH	*CT - CONTROL TRANSFORMER, FUSED, 120V	RDR - REMOTE DRIVE RUN
FDS - FUSED DISCONNECT SWITCH	*HA - HAND-OFF-AUTO DOOR SWITCH	RFT - REMOTE FAULT TRIP
CB - CIRCUIT BREAKER	TO - MELTING THERMAL OVERLOADS	LR - INPUT LINE REACTOR
	MOL - MULTIPLE MOTOR OVERLOADS	HAR - PASSIVE HARMONIC FILTER

ITEM	LINE DISC.	DRIVE BYPASS	SCCR	CIRCUIT VOLTAGE	POLES	DRIVE HP RATING	DRIVE TYPE	DRIVE TORQUE TYPE	ENCLOSURE	REQUIRED ACCESSORIES & OPTIONS	COMMENTS
VFD-CWP-1EH	CB	NONE	65 kA	460 V	3	15	PWM	VARIABLE	NEMA 1	SA LR VARIABLE TORQUE	
VFD-CWP-2EH	CB	NONE	65 kA	460 V	3	15	PWM	VARIABLE	NEMA 1	SA LR VARIABLE TORQUE	
VFD-HWP-1EH	CB	NONE	65 kA	460 V	3	15	PWM	VARIABLE	NEMA 1	SA LR VARIABLE TORQUE	
VFD-HWP-2EH	CB	NONE	65 kA	460 V	3	15	PWM	VARIABLE	NEMA 1	SA LR VARIABLE TORQUE	

TRANSFORMER SCHEDULE

TYPE:		**ACCESSORIES & OPTIONS**
K1 - DOE 2016 DRY TYPE	AUT - AUTOTRANSFORMER	AL - ALUMINUM WINDINGS
K4 - K4 RATED DRY TYPE	BB - BUCK BOOST	CU - COPPER WINDINGS
K13 - K13 RATED DRY TYPE	LIQ - LIQUID FILLED	RS - EPOXY RESIN ENCAPSULATED
HM - HARMONIC MITIGATING		FL - FILTERED
PE - NEMA PREMIUM EFFICIENCY		NV - NON-VENTILATED
		NL - 200% RATED NEUTRAL
		EL - ELECTROSTATIC SHIELD

ITEM	KVA RATING	TYPE	ENCLOSURE	MAX. TEMP. RISE C.	PRIMARY VOLTS	PRIMARY PH	SECONDARY VOLTS	SECONDARY PH	REQUIRED ACCESSORIES & OPTIONS	COMMENTS
TR-225	225 kVA	K-1	NEMA 1	150	480	3	120/208	3	AL	
TR-750	750 kVA	K-1	NEMA 1	150	480	3	120/208	3	AL	

LED LUMINAIRE SCHEDULE

(DESC) DOOR:	**DISTRIBUTION:**	**BEAMWIDTH:**	**(L/L) LENS/LOUVER:**
FA - FLAT ALUMINUM	II - ANSI/IES TYPE 2 DISTRIBUTION	NSP - VERY NARROW SPOT	K19 - KSH19 .156" ACRYLIC
FS - FLAT STEEL	III - ANSI/IES TYPE 3 DISTRIBUTION	SP - SPOT	A - 125" ACRYLIC
RA - REGRESSED ALUMINUM	IV - ANSI/IES TYPE 4 DISTRIBUTION	MD - MEDIUM	B - BAFFLE/LOUVER
RS - REGRESSED STEEL	V - ANSI/IES TYPE 5 DISTRIBUTION	WD - WIDE	C - CLEAR ALZAK
FINISH:		VWD - VERY WIDE	F - FROSTED ACRYLIC
PAF - PAINT AFTER FABRICATION		WW - WALL WASH	G - TEMPERED GLASS
CFSA - COLOR-FINISH SELECTION BY ARCHITECT			K - KSH12 .125" ACRYLIC

(MTG) MOUNTING:	RE - RECESSED		**(WATT) PER:** FIX - FIXTURE, FT - FOOT, LAMP
CL - CEILING SURFACE	SP - SUSPENDED		**(TYPE) LED**
CV - COVE	SU - SURFACE		LED - LIGHT EMITTING DIODE
FR - FLANGED RECESSED	UC - UNDER CABINET		TLED - TUBULAR LED LAMP
P - PERIMETER	WL - WALL		OLED - ORGANIC LED
PL - POLE	O - OTHER (SEE DESCRIPTION)		DLED - DYNAMIC TUNABLE LED

(TYPE) DRIVER:				
0-10V - 0-10V DIMMING	EB - ELECTRONIC	HL - HIGH/LOW (100%/50%) STEP DIM		MV - MULTI-VOLTAGE ELECTRONIC
DALI - DIGITAL ADDRESSABLE	ELV - ELECTRONIC LOW VOLTAGE	LINE - LINE VOLTAGE DIMMING		REM - REMOTE
DMX - DIGITAL MULTIPLEX	EM - EMERGENCY BATTERY	ML - MULTI-LEVEL SWITCHING		O - OTHER (SEE DESCRIPTION)

CATALOG NUMBER SHALL NOT BE CONSIDERED COMPLETE AND MATERIAL SHALL NOT BE ORDERED BY MANUFACTURER AND CATALOG NUMBER ONLY. THE COMPLETE DESCRIPTION AND THE SPECIFICATION SHALL BE COORDINATED WITH THE CATALOG NUMBER TO DETERMINE THE EXACT MATERIAL AND ACCESSORIES TO BE ORDERED. THE FIRST MANUFACTURER LISTED IS THE BASIS OF DESIGN.

VERIFY AND COORDINATE ALL CEILING TYPES WITH LUMINAIRE MOUNTING AND TRIM REQUIREMENTS PRIOR TO THE RELEASE OF THE LUMINAIRE ORDER.
CONFIRM ALL COLORS AND FINISHES OF ALL LUMINAIRE COMPONENTS WITH ARCHITECT AND INTERIOR DESIGNER PRIOR TO THE RELEASE OF THE LUMINAIRE ORDER.
UNLESS INDICATED ON LIGHTING PLANS OR BELOW, REFER TO ARCHITECTURAL AND INTERIOR DESIGN ELEVATIONS, SECTIONS AND DETAILS FOR ALL SUSPENDED AND WALL MOUNTED LUMINAIRE MOUNTING HEIGHTS.

REFER TO SPECIFICATION SECTIONS LED LIGHTING 26 51 19 FOR ADDITIONAL INFORMATION AND REQUIREMENTS.
INTERIOR CORRELATED COLOR TEMPERATURE 4000/4100K, COLOR RENDERING INDEX (CRI) AT OR ABOVE 80, UNLESS NOTED OTHERWISE.
NOTE: E.C. TO CONFIRM ALL FIXTURE MOUNTING HEIGHTS WITH ARCHITECT PRIOR TO INSTALLATION.

ITEM	DESCRIPTION	L/L	MTG	DIMENSIONS L	W	H	DIA.	WATT ANSI WATTS	PER	LED TYPE	QTY	DELIVERED LUMENS (MIN)	DRIVER VOLTS	TYPE	MANUFACTURER AND MODEL
EM1	EMERGENCY UNIT, TWO ADJUSTABLE LED HEADS, COORDINATE THERMOPLASTIC HOUSING COLOR WITH THE ARCHITECT. EMERGENCY BATTERY INSIDE OF UNIT. SELF TEST & DIAGNOSTICS OF BATTERY AND LAMPS. CFSA.	O	WL	1'-2"	6"	3 205/25 6"		5 W	FIX	LED	2	550 PER HEAD	120 V	EM	LITHONIA ELM6L UVOLT LTP SDRT HO DUAL-LITE LZ2 I MCPHILBEN CAX6 THOMAS & BETTS LCA-2LED XTRALIGHT-EMX SERIES OR APPROVED EQUAL
EX1	SINGLE-FACE EXIT SIGN, WHITE THERMOPLASTIC BODY, RED LETTERS, EMERGENCY NI-CAD BATTERY INSIDE OF SIGN, UNIVERSAL ARROWS/MOUNTING. SELF TEST & DIAGNOSTICS OF BATTERY AND LAMPS.	O	CL	1'-1"	2"	9"		3 W	FIX	LED	1	L.E.D.	120 V	EM	LITHONIA LQMS-W-R-MVOLT BEGHELLI VA4 DUAL-LITE EVE MCPHILBEN CXXL MULE LTG MX SERIES THOMAS & BETTS QLX500-RN
EX2	DOUBLE-FACE EXIT SIGN, WHITE THERMOPLASTIC BODY, RED LETTERS, EMERGENCY NI-CAD BATTERY INSIDE OF SIGN, UNIVERSAL ARROWS/MOUNTING. SELF TEST & DIAGNOSTICS OF BATTERY AND LAMPS.	O	CL	1'-1"	2"	9"		5 W	FIX	LED	1	L.E.D.	120 V	EM	LITHONIA LQMS-W-R-MVOLT BEGHELLI VA4 DUAL-LITE EVE MCPHILBEN CXXL MULE LTG MX SERIES THOMAS & BETTS QLX500-RN
EX3	SINGLE-FACE EXIT SIGN, WHITE THERMOPLASTIC BODY, RED LETTERS, UNIVERSAL ARROWS/MOUNTING.	O	WL	1'-1"	2"	9"		3 W	FIX	LED	1	L.E.D.	120 V		LITHONIA LQMS-W-R-MVOLT BEGHELLI VA4 DUAL-LITE EVE MCPHILBEN CXXL MULE LTG MX SERIES THOMAS & BETTS QLX500-RN
F1	LENSED LED STRIP TYPE INDUSTRIAL FIXTURE, DIE-FORMED HOUSING, WITH DIFFUSED MATTE ACRYLIC SHIELDING, REFLECTIVE WHITE POLYESTER POWDER COAT FINISH. PROVIDE CHAIN SUPPORT HARDWARE FOR THE PENDANT INSTALLATION.	O	SP	4'-0"	10"	4 1/4"		28 W	FIX	LED	1	4000	120 V	0-10V	LITHONIA CLX-L48-4000LM-SEF-L-WD-MVOLT-GZ10-40K-80C METALUX-4SNLED DAY-BRITE FLUXSTREAM MERCURY LTG LW4 SERIES COLUMBIA MPS4 SERIES DECO DS-CURVE-LED WILLIAMS LIGHTING- 75R SERIES HUBBELL MPS4 SERIES OR APPROVED EQUAL
F2	2X4 ARCHITECTURAL RECESSED DIRECT LED FIXTURE, COLD ROLLED STEEL HOUSING, WITH ACRYLIC DIFFUSER, HIGH REFLECTANCE WHITE PAINT FINISH.	O	RE	4'-0"	2'-0"	6"		38 W	FIX	LED	1	5040	120 V	0-10V	LITHONIA 2BLT4-48L-ADP-GZ10-LP840 METALUX 24CZ SERIES MERCURY LTG LR25-24 SERIES JUNO LTG S2X4BL SERIES ORACLE-ECLIPSE-24-OVHP-LED COLUMBIA - LCAT24 SERIES XTRALIGHT-LPR24 SERIES
F2E	SAME AS F2E FIXTURE WITH BACK-UP EMERGENCY DRIVER AND BATTERY. EM DRIVE SHALL PROVIDE PURE SINEWAVE OUTPUT OF MINIMUM 1400 LUMENS FOR MINIMUM OF 90 MINUTE CONTINUOUS OPERATION.	O	RE	4'-0"	2'-0"	6"		38 W	FIX	LED	1	5040	120 V	0-10V EM	LITHONIA 2BLT4-48L-ADP-GZ10-LP840 METALUX 24CZ SERIES MERCURY LTG LR25-24 SERIES JUNO LTG S2X4BL SERIES ORACLE-ECLIPSE-24-OVHP-LED COLUMBIA - LCAT24 SERIES XTRALIGHT-LPR24 SERIES
F3	SUSPENDED DIRECT/INDIRECT LINEAR LED FIXTURE, DIE-FORMED STEEL HOUSING, STEEL END CAPS TO MATCH FIXTURE, ACRYLIC LENS, HIGH REFLECTANCE MATTE WHITE POWDER COAT, 20% UP LIGHT AND 80% DOWN LIGHT DISTRIBUTION, AIR CRAFT CABLE SUSPENSION. REFER TO LIGHTING PLANS FOR AFF. MOUNTING HEIGHT, TOTAL FIXTURE LENGTH AND REQUIRED CONNECTOR ANGLES FOR OVERALL CONTINUOUS RUN IN RESPECTIVE SPACE.	O	SP	4'-0"	1'-0"	4 1/4"		25 W	PER FT	LED	1	160 UP/ 640 DOWN	120 V	0-10V	MARK PLN8-4'-80CRI-40K-ID800LMF-20/80-SCT-MVOLT AXIS SLIM SLLED PINNACLE LINERO CORELITE LAYLUM FOCAL POINT DART OR APPROVED EQUAL
F4	SUSPENDED DIRECT/INDIRECT LINEAR LED FIXTURE, DIE-FORMED STEEL HOUSING, STEEL END CAPS TO MATCH FIXTURE, ACRYLIC LENS, HIGH REFLECTANCE MATTE WHITE POWDER COAT, 20% UP LIGHT AND 80% DOWN LIGHT DISTRIBUTION, AIR CRAFT CABLE SUSPENSION, REFER TO LIGHTING PLANS FOR AFF. MOUNTING HEIGHT, TOTAL FIXTURE LENGTH AND REQUIRED CONNECTOR ANGLES FOR OVERALL CONTINUOUS RUN IN RESPECTIVE SPACE.	O	SP	4'-0"	1'-0"	4 1/4"		32 W	PER FT	LED	1	200 UP/ 800 DOWN	120 V	0-10V	MARK PLN8-4'-80CRI-40K-ID1000LMF-20/80-SCT-MVOLT AXIS SLIM SLLED PINNACLE LINERO CORELITE LAYLUM FOCAL POINT DART OR APPROVED EQUAL
F4E	SAME AS F4E FIXTURE WITH BACK-UP EMERGENCY DRIVER AND BATTERY. EM DRIVE SHALL PROVIDE PURE SINEWAVE OUTPUT OF MINIMUM 1400 LUMENS FOR MINIMUM OF 90 MINUTE CONTINUOUS OPERATION.	O	SP	4'-0"	1'-0"	4 1/4"		32 W	PER FT	LED	1	200 UP/ 800 DOWN	120 V	0-10V EM	MARK PLN8-4'-80CRI-40K-ID1000LMF-20/80-SCT-MVOLT AXIS SLIM SLLED PINNACLE LINERO CORELITE LAYLUM FOCAL POINT DART OR APPROVED EQUAL
F5	SUSPENDED DIRECT/INDIRECT LINEAR LED FIXTURE, DIE-FORMED STEEL HOUSING, STEEL END CAPS TO MATCH FIXTURE, ACRYLIC LENS, HIGH REFLECTANCE MATTE WHITE POWDER COAT, 20% UP LIGHT AND 80% DOWN LIGHT DISTRIBUTION, AIR CRAFT CABLE SUSPENSION. REFER TO LIGHTING PLANS FOR AFF. MOUNTING HEIGHT, TOTAL FIXTURE LENGTH AND REQUIRED CONNECTOR ANGLES FOR OVERALL CONTINUOUS RUN IN RESPECTIVE SPACE.	O	SP	4'-0"	1'-0"	4 1/4"		50 W	PER FT	LED	1	300 UP/ 1200 DOWN	120 V	0-10V	MARK PLN8-4'-80CRI-40K-ID1500LMF-20/80-SCT-MVOLT AXIS SLIM SLLED PINNACLE LINERO CORELITE LAYLUM FOCAL POINT DART OR APPROVED EQUAL
F5E	SUSPENDED DIRECT/INDIRECT LINEAR LED FIXTURE, DIE-FORMED STEEL HOUSING, STEEL END CAPS TO MATCH FIXTURE, ACRYLIC LENS, HIGH REFLECTANCE MATTE WHITE POWDER COAT, 20% UP LIGHT AND 80% DOWN LIGHT DISTRIBUTION, AIR CRAFT CABLE SUSPENSION. REFER TO LIGHTING PLANS FOR AFF. MOUNTING HEIGHT, TOTAL FIXTURE LENGTH AND REQUIRED CONNECTOR ANGLES FOR OVERALL CONTINUOUS RUN IN RESPECTIVE SPACE.	O	SP	4'-0"	1'-0"	4 1/4"		50 W	PER FT	LED	1	300 UP/ 1200 DOWN	120 V	0-10V EM	MARK PLN8-4'-80CRI-40K-ID1500LMF-20/80-SCT-MVOLT AXIS SLIM SLLED PINNACLE LINERO CORELITE LAYLUM FOCAL POINT DART OR APPROVED EQUAL
S1E	EXTERIOR LED WALL PACK, DIE CAST ALUMINUM HOUSING, TYPE-T3M DISTRIBUTION, SUITABLE FOR WET LOCATIONS, PROVIDE WITH BUIT-IN PHOTOCELL AS REQUIRED. CFSA.	G	WL	1'-4"	10"	10 1/2"		23 W	FIX	LED	1	3000	120 V	0-10V	LITHONIA DSXW1-20C-350-40K-T3M-MVOLT KIM LIGHTING - WDS SERIES NLS LIGHTING - NV-W SERIES McGRAW EDISON GWC SERIES OR APPROVED EQUAL

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KEY PLAN

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REFERENCE SCALE IN INCHES
0 1 2

REVISIONS

No.	Date	Revision / Issue

SHEET INFORMATION

Issue: **BID DOCUMENTS**
Date: **JANUARY 28, 2022**
Job Number: **21002885.04**
Drawn: **Author**
Checked: **Checker**
Approved: **Approver**

SHEET TITLE

ELECTRICAL SCHEDULES

SCALE

Scale:

SHEET NUMBER

E600

SWITCHBOARD SB-MAINS-N

ENCLOSURE: NEMA 1
FED FROM: 3,000 A/3P X'MER LUGS @ UTILITY
LOCATION: EXTERIOR
SPD: SPD-C1
METER: DPM

SOLID NEUTRAL
GROUND BUS

VOLTS: 480/277 Wye
PHASE: 3
WIRE 4
SCCR: 65 kA
ISC: 58,892.5 A

NOTES: (1) SERVICE ENTRANCE RATED (2) 100% RATED MAIN BREAKER WITH [AER] AND [LSIG] FEATURES (3) PROVIDE MINIMUM 20" PREPARED SPACE FOR FUTURE LOADS

MAIN OCPD

POLES	FRAME	TRIP	TYPE	ACCESSORIES
3	3,000 A	3,000 A	MCB	100% RATED, AER, LSIG

DISTRIBUTION SUMMARY	CONNECTED LOAD
SB-DIST.	2051.47 kVA

LOAD SUMMARY (INCLUDES ALL SECTIONS OF THIS SWITCHBOARD)

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND
HVAC	967.724 kVA	90.00%	870.952 kVA
HVAC Cooling Only	375.27 kVA	90.00%	337.743 kVA
HVAC Heating Only	33.4 kVA	90.00%	30.06 kVA
Power	2.5 kVA	100.00%	2.5 kVA
Receptacles	3.92 kVA	100.00%	3.92 kVA
Existing	668.652 kVA	100.00%	668.652 kVA

TOTALS*

TOTAL CONNECTED LOAD:	2051.47 kVA
TOTAL ESTIMATED DEMAND LOAD:	1883.767 kVA
TOTAL CONNECTED AMPS:	2467.53 A
TOTAL ESTIMATED DEMAND AMPS:	2,265.8 A

*TOTAL DEMAND CALCS SUBTRACT ANY REDUNDANT LOAD AND THE SMALLER OF ANY NONCOINCIDENT HVAC LOADS. THIS CALC IS DONE AT EACH PANEL.

CIRCUIT NOTES: *1 = REFER TO SHEET E500 FOR MORE DETAILS ON WIRING AND CONDUIT.

SB-DIST.

CKT	LOAD DESCRIPTION	LOAD	POLES	FRAME	TRIP	TYPE	ACC.	WIRE AND RACEWAY	CIRCUIT NOTES
1	SPD-C1	0 kVA	3	60 A	60 A			4#6 & 1#10 GND IN 1" C. MAXIMUM 5'-0" LENGTH	
2	TR-750	380 kVA	3	1,200 A	1,200 A		LSIG, AER	(3) SETS OF 3#600KCM & 1#3/0 EGC EACH IN 4" C.	
3	TR-225	140.78 kVA	3	500 A	500 A			(2) SETS OF 3#250KCM & 1#2 EGC EACH IN 2 1/2" C.	
4	HVAC Cooling Only, CH-1 (411.4 FLA)	341.87 kVA	3	600 A	600 A			(2) SETS OF 3#250KCM & 1#1 EGC EACH IN 2 1/2" C.	
5	PANEL MH1	142.02 kVA	3	400 A	400 A			4#600KCM & 1#3 EGC IN 3 1/2" C.	
6	PANEL MH2	65.2 kVA	3	400 A	400 A			4#600KCM & 1#3 EGC IN 3 1/2" C.	
7	EXISTING HDP-A	288.65 kVA	3	400 A	400 A				*1
8	HVAC, DOAS-3EH	94.73 kVA	3	125 A	125 A			3#1 & 1#6 EGC IN 1 1/2" C.	
9	HVAC, DOAS-2EH	148.8 kVA	3	200 A	200 A			3#3/0 & 1#6 EGC IN 2" C.	
10	HVAC, DOAS-1EH	124.65 kVA	3	175 A	175 A			3#1/0 & 1#6 EGC IN 1 1/2" C.	
11	HVAC, RTU-1EH	162.38 kVA	3	225 A	225 A			3#3/0 & 1#4 EGC IN 2" C.	
12	HVAC, RTU-2EH	162.38 kVA	3	225 A	225 A			3#3/0 & 1#4 EGC IN 2" C.	
13									
14									
15									
16									

DISTRIBUTION PANEL DP-ML

ENCLOSURE: NEMA PB 1
FED FROM: 800 A/3P X'MER LUGS @ TR-225
LOCATION: NEW ELECTRICAL ROOM

SOLID NEUTRAL
GROUND BUS

MAIN: 800 A MCB
VOLTS: 120/208 Wye
PHASE: 3
WIRE: 4
SCCR: 22 kA
ISC: 10,705 A

NOTES: PROVIDE MINIMUM 20" PREPARED SPACE FOR FUTURE

CKT	LOAD DESCRIPTION	LOAD	POLES	FRAME	TRIP	TYPE	ACC.	WIRE AND RACEWAY	CIRCUIT NOTES
1	PANEL MLB1	35.75 kVA	3	200 A	200 A			4#3/0 & 1#6 EGC IN 2" C.	
2	PANEL MLB2	20.02 kVA	3	100 A	100 A			4#1 & 1#8 EGC IN 1 1/2" C.	
3	PANEL MLB3	36.32 kVA	3	200 A	200 A			4#4/0 & 1#4 EGC IN 2 1/2" C.	
4	PANEL MLB4	48.7 kVA	3	225 A	225 A			4#350KCM & 1#1 EGC IN 3" C.	
5									
6									
7									
8									

LOAD SUMMARY (INCLUDES ALL TUBS IN THIS PANEL)

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND
HVAC	134.364 kVA	90.00%	120.928 kVA
Power	2.5 kVA	100.00%	2.5 kVA
Receptacles	3.92 kVA	100.00%	3.92 kVA

TOTALS*

TOTAL CONNECTED LOAD:	140.78 kVA
TOTAL ESTIMATED DEMAND LOAD:	127.348 kVA
TOTAL CONNECTED AMPS:	390.78 A
TOTAL ESTIMATED DEMAND AMPS:	353.5 A

*TOTAL DEMAND CALCS SUBTRACT ANY REDUNDANT LOAD AND THE SMALLER OF ANY NONCOINCIDENT HVAC LOADS. THIS CALC IS DONE AT EACH PANEL.

CIRCUIT NOTES:

PANEL MH1

MOUNTING: SURFACE
ENCLOSURE: NEMA PB 1
FED FROM: 400 A/3P @ SB-DIST.
LOCATION: NEW ELECTRICAL ROOM

SOLID NEUTRAL
GROUND BUS

MAIN: 400 A MLO
VOLTS: 480/277 Wye
PHASE: 3
WIRE: 4
SCCR: 65 kA
ISC: 46.35 kA

NOTES:

KEY	CKT NO.	LOAD DESCRIPTION	OCPD AMPS	P	WIRE SIZE H	N	G	A		B		C		WIRE SIZE G	N	H	P	OCPD AMPS	LOAD DESCRIPTION	CKT NO.	KEY
	1	HVAC Cooling Only, CWP-1EH (15 HP)	45 A	3	10	10	10	5.57	5.57					10	10	10	3	45 A	HVAC Cooling Only, CWP-2EH (15 HP)	2	
--	3	--	--	--	--	--	--			5.57	5.57			--	--	--	--	--	--	4	--
--	5	--	--	--	--	--	--					5.57	5.57	--	--	--	--	--	--	6	--
	7	HVAC Heating Only, HWP-1EH (15 HP)	45 A	3	10	10	10	5.57	5.57					10	10	10	3	45 A	HVAC Heating Only, HWP-2EH (15 HP)	8	
--	9	--	--	--	--	--	--			5.57	5.57			--	--	--	--	--	--	10	--
--	11	--	--	--	--	--	--					5.57	5.57	--	--	--	--	--	--	12	--
	13	HVAC, RTU-10EH	70 A	3	6	6	8	13.16	7.57					10	10	10	3	35 A	HVAC, RTU-3EH	14	
--	15	--	--	--	--	--	--			13.16	7.57			--	--	--	--	--	--	16	--
--	17	--	--	--	--	--	--					13.16	7.57	--	--	--	--	--	--	18	--
	19	HVAC, RTU-4EH	20 A	3	12	12	12	4.35	0					--	--	--	--	--	SPACE	20	--
--	21	--	--	--	--	--	--			4.35	0			--	--	--	--	--	SPACE	22	--
--	23	--	--	--	--	--	--					4.35	0	--	--	--	--	--	SPACE	24	--
--	25	SPACE	--	--	--	--	--	0	0					--	--	--	--	--	SPACE	26	--
--	27	SPACE	--	--	--	--	--			0	0			--	--	--	--	--	SPACE	28	--
--	29	SPACE	--	--	--	--	--					0	0	--	--	--	--	--	SPACE	30	--
--	31	SPACE	--	--	--	--	--	0	0					--	--	--	--	--	SPACE	32	--
--	33	SPACE	--	--	--	--	--			0	0			--	--	--	--	--	SPACE	34	--
--	35	SPACE	--	--	--	--	--					0	0	--	--	--	--	--	SPACE	36	--
--	37	SPACE	--	--	--	--	--	0	0					--	--	--	--	--	SPACE	38	--
--	39	SPACE	--	--	--	--	--			0	0			--	--	--	--	--	SPACE	40	--
--	41	SPACE	--	--	--	--	--					0	0	--	--	--	--	--	SPACE	42	--
					Total Load:			47.34 kVA		47.34 kVA		47.34 kVA									
					Total Amps:			170.90		170.90		170.90									

LOAD SUMMARY

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND
HVAC	75.22 kVA	90.00%	67.698 kVA
HVAC Cooling Only	33.4 kVA	90.00%	30.06 kVA
HVAC Heating Only	33.4 kVA	90.00%	30.06 kVA

TOTALS*

TOTAL CONNECTED LOAD:	142.02 kVA
TOTAL ESTIMATED DEMAND LOAD:	97.758 kVA
TOTAL CONNECTED AMPS:	170.82 A
TOTAL ESTIMATED DEMAND AMPS:	117.6 A

*TOTAL DEMAND CALCS SUBTRACT ANY REDUNDANT LOAD AND THE SMALLER OF ANY NONCOINCIDENT HVAC LOADS. THIS CALC IS DONE AT EACH PANEL.

CIRCUIT KEY NOTES:

PANEL MH2

MOUNTING: SURFACE
ENCLOSURE: NEMA PB 1
FED FROM: 400 A/3P @ SB-DIST.
LOCATION: STORAGE

SOLID NEUTRAL
GROUND BUS

MAIN: 400 A MLO
VOLTS: 480/277 Wye
PHASE: 3
WIRE: 4
SCCR: 18 kA
ISC: 16.07 kA

NOTES:

KEY	CKT NO.	LOAD DESCRIPTION	OCPD AMPS	P	WIRE SIZE H	N	G	A		B		C		WIRE SIZE G	N	H	P	OCPD AMPS	LOAD DESCRIPTION	CKT NO.	KEY
	1	HVAC, RTU-5EH, ROOF	20 A	3	12	12	12	4.35	4.35					12	12	12	3	20 A	HVAC, RTU-7EH, ROOF	2	
--	3	--	--	--	--	--	--			4.35	4.35			--	--	--	--	--	--	4	--
--	5	--	--	--	--	--	--					4.35	4.35	--	--	--	--	--	--	6	--
	7	HVAC, RTU-8EH, ROOF	20 A	3	12	12	12	4.35	4.35					12	12	12	3	20 A	HVAC, RTU-9EH, ROOF	8	
--	9	--	--	--	--	--	--			4.35	4.35			--	--	--	--	--	--	10	--
--	11	--	--	--	--	--	--					4.35	4.35	--	--	--	--	--	--	12	--
	13	HVAC, RTU-6EH, ROOF	20 A	3	12	12	12	4.35	0					--	--	--	--	--	SPACE	14	--
--	15	--	--	--	--	--	--			4.35	0			--	--	--	--	--	SPACE	16	--
--	17	--	--	--	--	--	--					4.35	0	--	--	--	--	--	SPACE	18	--
--	19	SPACE	--	--	--	--	--	0	0					--	--	--	--	--	SPACE	20	--
--	21	SPACE	--	--	--	--	--			0	0			--	--	--	--	--	SPACE	22	--
--	23	SPACE	--	--	--	--	--					0	0	--	--	--	--	--	SPACE	24	--
--	25	SPACE	--	--	--	--	--	0	0					--	--	--	--	--	SPACE	26	--
--	27	SPACE	--	--	--	--	--			0	0			--	--	--	--	--	SPACE	28	--
--	29	SPACE	--	--	--	--	--					0	0	--	--	--	--	--	SPACE	30	--
--	31	SPACE	--	--	--	--	--	0	0					--	--	--	--	--	SPACE	32	--
--	33	SPACE	--	--	--	--	--			0	0			--	--	--	--	--	SPACE	34	--
--	35	SPACE	--	--	--	--	--					0	0	--	--	--	--	--	SPACE	36	--
--	37	SPACE	--	--	--	--	--	0	0					--	--	--	--	--	SPACE	38	--
--	39	SPACE	--	--	--	--	--			0	0			--	--	--	--	--	SPACE	40	--
--	41	SPACE	--	--	--	--	--					0	0	--	--	--	--	--	SPACE	42	--
					Total Load:			21.73 kVA		21.73 kVA		21.73 kVA									
					Total Amps:			78.46		78.46		78.46									

LOAD SUMMARY

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND
HVAC	65.2 kVA	90.00%	58.68 kVA

TOTALS*

TOTAL CONNECTED LOAD:	65.20 kVA
TOTAL ESTIMATED DEMAND LOAD:	58.68 kVA
TOTAL CONNECTED AMPS:	78.42 A
TOTAL ESTIMATED DEMAND AMPS:	70.6 A

*TOTAL DEMAND CALCS SUBTRACT ANY REDUNDANT LOAD AND THE SMALLER OF ANY NONCOINCIDENT HVAC LOADS. THIS CALC IS DONE AT EACH PANEL.

CIRCUIT KEY NOTES:

DP-SES

ENCLOSURE: NEMA 1
FED FROM: 2,000 A/3P X'MER LUGS @ TR-750
LOCATION: ELEC. VAULT
SPD: SPD-B1

SOLID NEUTRAL
GROUND BUS

MAIN: 2,000 A MCB
VOLTS: 120/208 Wye
PHASE: 3
WIRE: 4
SCCR: 42 kA
ISC: 30,787 A

NOTES: (1) EXISTING PEAK LOAD DEMAND = 380KVA (2) PROVIDE MINIMUM 20" PREPARED SPACE FOR FUTURE (2) MARK BREAKER AS "SPARE" FOR THE EXISTING LOADS BEING REMOVED.

CKT	LOAD DESCRIPTION	Load	POLES	FRAME	TRIP	TYPE	ACC.	WIRE AND RACEWAY	CIRCUIT NOTES
1	SPD-B1	0 kVA	3	30 A	30 A			4#10 & 1#10 GND IN 3/4" C. MAX. 5'-0" LENGTH	
2	EXISTING OFFICE PANEL DP-B	0 kVA	3	200 A	200 A			EXISTING WIRE AND CONDUIT	*E
3	EXISTING SHOP WING PANEL XP1	0 kVA	3	400 A	400 A			EXISTING WIRE AND CONDUIT	*E
4	EXISTING LOCKER PANELS 1L, 1LA	0 kVA	3	150 A	150 A			EXISTING WIRE AND CONDUIT	*E
5	EXISTING GYM PANELS 2GW, 2GE	0 kVA	3	400 A	400 A			EXISTING WIRE AND CONDUIT	*E
6	EXISTING OFFICE ROOM UNIT ACCU-1	0 kVA	3	125 A	125 A			EXISTING WIRE AND CONDUIT	*E
7	EXISTING PANEL O	0 kVA	3	100 A	100 A			EXISTING WIRE AND CONDUIT	*E
8	EXISTING PANEL E	0 kVA	3	60 A	60 A			EXISTING WIRE AND CONDUIT	*E
9	EXISTING PANEL S	0 kVA	3	60 A	60 A			EXISTING WIRE AND CONDUIT	*E
10	EXISTING PANEL P	0 kVA	3	400 A	400 A			EXISTING WIRE AND CONDUIT	*E
11	EXISTING AUDI. DIMMER CONTROL	0 kVA	3	400 A	400 A			EXISTING WIRE AND CONDUIT	*E
12	EXISTING PANELS XP3, KP1, 1S,2S, 3S	0 kVA	3	400 A	400 A			EXISTING WIRE AND CONDUIT	*E
13	EXISTING POOL FILTER ROOM	0 kVA	3	300 A	300 A			EXISTING WIRE AND CONDUIT	*E
14	EXISTING BOILER ROOM PANEL	0 kVA	3	400 A	300 A			EXISTING WIRE AND CONDUIT	*E
15	EXISTING PANELS XP2, 1E, 2E, 3E	0 kVA	3	300 A	300 A			EXISTING WIRE AND CONDUIT	*E
16	EXISTING PANELS 1W, 2W, 3W	0 kVA	3	225 A	225 A			EXISTING WIRE AND CONDUIT	*E
17	EXISTING HOME E.C. PANEL	0 kVA	3	200 A	200 A			EXISTING WIRE AND CONDUIT	*E
18	EXISTING PANEL C	0 kVA	3	300 A	300 A			EXISTING WIRE AND CONDUIT	*E
19	EXISTING PANELS 1CXP, 2C, 3C	0 kVA	3	225 A	225 A			EXISTING WIRE AND CONDUIT	*E
20	EXISTING KITCHEN PANEL	0 kVA	3	200 A	200 A			EXISTING WIRE AND CONDUIT	*E
21	EXISTING ATS	0 kVA	3	100 A	100 A			4#1 & 1#8 EGC IN 1 1/2" C.	
22	SPARE	0 kVA	1	--	20 A	--	--	--	
23	SPARE	0 kVA	1	--	20 A	--	--	--	
24	SPARE	0 kVA	1	--	20 A	--	--	--	
25									
26									
27									
28									

LOAD SUMMARY (INCLUDES ALL TUBS IN THIS PANEL)

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND
Power	0 kVA	0.00%	0 kVA

TOTALS*

TOTAL CONNECTED LOAD:	0.00 kVA
TOTAL ESTIMATED DEMAND LOAD:	0 kVA
TOTAL CONNECTED AMPS:	0.00 A
TOTAL ESTIMATED DEMAND AMPS:	0 A

*TOTAL DEMAND CALCS SUBTRACT ANY REDUNDANT LOAD AND THE SMALLER OF ANY NONCOINCIDENT HVAC LOADS. THIS CALC IS DONE AT EACH PANEL.

CIRCUIT NOTES: *E = EXISTING REMAINING LOADS. MODIFY EXISTING RETAINED CIRCUIT (WIRING AND CONDUIT) AS REQUIRED TO RECONNECT WITH THE NEW BREAKER IN THE NEW DP-SES.

EXISTING SWITCHBOARD SES MAIN

ENCLOSURE: NEMA 1
FED FROM: UTILITY TRANSFORMER
LOCATION: EXISTING ELEC./MECH. 24
SPD: EXISTING SPD
METER: EXISTING METER

SOLID NEUTRAL
GROUND BUS

MAIN: 2,000 A MCCB
VOLTS: 480/277 Wye
PHASE: 3
WIRE: 4
SCCR: EXISTING
ISC UNKNOWN 0 A

NOTES: OLD CONNECTED (ESTIMATED) LOAD = 857.12 KVA, EXISTING (ESTIMATED) LOAD BEING REMOVED = 322.8 KVA, NEWLY ADDED LOAD = 884 KVA, TOTAL CONNECTED LOAD = 1418.32 KVA

CKT	LOAD DESCRIPTION	Load	POLES	FRAME	TRIP	TYPE	ACC.	WIRE AND RACEWAY	CIRCUIT NOTES
1	EXISTING HDP-B	188.7 kVA	3	400 A	400 A			EXISTING WIRE AND CONDUIT	*E
2	EXISTING SPD	0 kVA	3	60 A	60 A			EXISTING WIRE AND CONDUIT	*E
3	EXISTING LP-1	31.7 kVA	3	200 A	200 A			EXISTING WIRE AND CONDUIT	*E
4	EXISTING T-1	86.78 kVA	3	175 A	175 A			EXISTING WIRE AND CONDUIT	*E
5	HVAC, RTU-11EH, ROOF	221 kVA	3	300 A	300 A			3#350KCM & 1#4 EGC IN 3" C.	*RNB
6	HVAC, RTU-12EH, ROOF	221 kVA	3	300 A	300 A			3#350KCM & 1#4 EGC IN 3" C.	*RNB
7	HVAC, RTU-13EH, ROOF	221 kVA	3	300 A	300 A			3#350KCM & 1#4 EGC IN 3" C.	*RNB
8	HVAC, RTU-14EH, ROOF	221 kVA	3	300 A	300 A			3#350KCM & 1#4 EGC IN 3" C.	*RNB
9	EXISTING RTU-7	66.48 kVA	3	100 A	100 A			EXISTING WIRE AND CONDUIT	*E
10	EXISTING RTU-8	78.11 kVA	3	125 A	125 A			EXISTING WIRE AND CONDUIT	*E
11	EXISTING ELEVATOR	51.8 kVA	3	125 A	125 A			EXISTING WIRE AND CONDUIT	*E
12	EXISTING RTU-5	30.75 kVA	3	125 A	125 A			EXISTING WIRE AND CONDUIT	*E
13	EXISTING SPARE	0 kVA	1	--	150 A	--	--	--	
14	EXISTING SPARE	0 kVA	1	--	150 A	--	--	--	
15	EXISTING SPARE	0 kVA	1	--	150 A	--	--	--	
16									
17									
18									
19									
20									

LOAD SUMMARY (INCLUDES ALL TUBS IN THIS PANEL)

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND
HVAC	884 kVA	90.00%	795.6 kVA
Power	2 kVA	100.00%	2 kVA
Existing	532.315 kVA	100.00%	532.315 kVA

TOTALS*

TOTAL CONNECTED LOAD:	1418.32 kVA
TOTAL ESTIMATED DEMAND LOAD:	1329.915 kVA
TOTAL CONNECTED AMPS:	1705.97 A
TOTAL ESTIMATED DEMAND AMPS:	1,599.6 A

*TOTAL DEMAND CALCS SUBTRACT ANY REDUNDANT LOAD AND THE SMALLER OF ANY NONCOINCIDENT HVAC LOADS. THIS CALC IS DONE AT EACH PANEL.

CIRCUIT NOTES: *E = EXISTING REMAINING LOADS, *RNB = REMOVE EXISTING BREAKER BECOME SPARE AFTER DEMO WORK, PROVIDE NEW BREAKER IN THAT SPACE AND EXTEND NEW WIRING.

PANEL MLB1

MOUNTING: SURFACE
ENCLOSURE: NEMA PB 1
FED FROM: 200 A/3P @ DP-ML
LOCATION: NEW ELECTRICAL ROOM

SOLID NEUTRAL
GROUND BUS

MAIN: 200 A MLO
VOLTS: 120/208 Wye
PHASE: 3
WIRE: 4
SCCR: 22 kA
ISC: 10.00 kA

NOTES: PROVIDE SINGLE TUB WITH 60 POLES

KEY	CKT NO.	LOAD DESCRIPTION	OCPD AMPS	P	WIRE SIZE H	N	G	A		B		C		WIRE SIZE G	N	H	P	OCPD AMPS	LOAD DESCRIPTION	CKT NO.	KEY
	1	HVAC, FCUs, AREA-B, BASEMENT	20 A	1	12	12	12	1.1	0.77					10	10	10	1	20 A	HVAC, FCUs, AREA-B, BASEMENT	2	
	3	HVAC, FCUs, AREA-B, BASEMENT	20 A	1	12	12	12			1.1	0.77			10	10	10	1	20 A	HVAC, FCUs, AREA-B, FF	4	
	5	HVAC, FCUs, AREA-B, BASEMENT	20 A	1	10	10	10					1.15	1.01	10	10	10	1	20 A	HVAC, FCUs, AREA-B, FF	6	
	7	HVAC, FCUs, AREA-B, FF	20 A	1	10	10	10	0.72	1.58					12	12	12	1	20 A	HVAC, FCUs, AREA-B, FF	8	
	9	HVAC, FCUs, AREA-B, FF	20 A	1	10	10	10			1.01	0.77			10	10	10	1	20 A	HVAC, FCUs, AREA-B, FF	10	
	11	HVAC, FCUs, AREA-B, SF	20 A	1	12	12	12					1.44	1.44	10	10	10	1	20 A	HVAC, FCUs, AREA-B, SF	12	
	13	HVAC, FCUs, AREA-B, SF	20 A	1	12	12	12	1.25	1.15					10	10	10	1	20 A	HVAC, FCUs, AREA-B, SF	14	
	15	HVAC, FCUs, AREA-B, SF	20 A	1	10	10	10			0.77	1.15			10	10	10	1	20 A	HVAC, FCUs, AREA-B, SF	16	
	17	HVAC, FCUs, AREA-B, TF	20 A	1	10	10	10					0.67	0.79	10	10	10	1	20 A	HVAC, FCUs, AREA-B, FF	18	
	19	HVAC, FCUs, AREA-B, TF	20 A	1	10	10	10	0.77	0.79					10	10	10	1	20 A	HVAC, FCUs, AREA-B, FF	20	
	21	HVAC, FCUs, AREA-B, TF	20 A	1	10	10	10			0.77	0.5			10	10	10	1	20 A	Power, RTU-3EH, LIGHTS, ROOF	22	
	23	Power, RTU-4EH, LIGHTS, ROOF	20 A	1	10	10	10					0.5	0.5	10	10	10	1	20 A	Power, DOAS-3EH, LIGHTS, ROOF	24	
	25	HVAC, EF-1, ROOF	20 A	2	10	10	10	0.95	0.54					10	10	10	1	20 A	Receptacles, ROOF	26	
--	27	--	--	--	--	--	--			0.95	0.5			12	12	12	1	20 A	Power, DDC PANEL,AREA-B	28	
	29	Power, DDC PANEL,AREA-B	20 A	1	12	12	12					0.5	1.06	10	10	10	1	20 A	HVAC, FCUs, AREA-B, SF	30	
	31	HVAC, FCUs, AREA-B, SF	20 A	1	10	10	10	1.06	1.06					10	10	10	1	20 A	HVAC, FCUs, AREA-B, SF	32	
	33	HVAC, FCUs, AREA-B, SF	20 A	1	10	10	10			0.79	0.72			12	12	12	1	20 A	HVAC, FCUs, AREA-B, SF	34	
	35	HVAC, FCUs, AREA-B, SF	20 A	1	10	10	10					1.1	0.67	12	12	12	1	20 A	HVAC, FCUs, AREA-B, BASEMENT	36	
	37	Receptacles, AREA B, BASEMENT	20 A	1	12	12	12	1.4	1.08					12	12	12	1	20 A	Receptacles, AREA B, BASEMENT	38	
	39	Receptacles, AREA B, BASEMENT	20 A	1	12	12	12			0.9	0			--	--	--	1	20 A	SPARE	40	--
--	41	SPARE	20 A	1	--	--	--					0	0	--	--	--	1	20 A	SPARE	42	--
--	43	SPARE	20 A	1	--	--	--	0	0					--	--	--	1	20 A	SPARE	44	--
--	45	SPARE	20 A	1	--	--	--			0	0			--	--	--	1	20 A	SPARE	46	--
--	47	SPARE	20 A	1	--	--	--					0	0	--	--	--	1	20 A	SPARE	48	--
--	49	SPARE	20 A	1	--	--	--	0	0					--	--	--	1	20 A	SPARE	50	--
--	51	SPARE	20 A	1	--	--	--			0	0			--	--	--	1	20 A	SPARE	52	--
--	53	SPARE	20 A	1	--	--	--					0	0	--	--	--	1	20 A	SPARE	54	--
--	55	SPACE	--	--	--	--	--	0	0					--	--	--	--	--	SPACE	56	--
--	57	SPACE	--	--	--	--	--			0	0			--	--	--	--	--	SPACE	58	--
--	59	SPACE	--	--	--	--	--					0	0	--	--	--	--	--	SPACE	60	--
					Total Load:			14.22 kVA		10.70 kVA		10.84 kVA									
					Total Amps:			118.66		89.15		90.48									

LOAD SUMMARY

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND
HVAC	29.332 kVA	90.00%	26.399 kVA
Power	2.5 kVA	100.00%	2.5 kVA
Receptacles	3.92 kVA	100.00%	3.92 kVA

TOTALS*

**TOTAL CON

PANEL MLB2

MOUNTING: SURFACE
ENCLOSURE: NEMA PB 1
FED FROM: 100 A/3P @ DP-ML
LOCATION: FAN ROOM 4

SOLID NEUTRAL
GROUND BUS

MAIN: 100 A MLO
VOLTS: 120/208 Wye
PHASE: 3
WIRE: 4
SCCR: 10 kA
ISC: 4.65 kA

NOTES:

KEY	CKT NO.	LOAD DESCRIPTION	OCPD AMPS	P	WIRE SIZE H	N	G	A	B	C	WIRE SIZE G	N	H	P	OCPD AMPS	LOAD DESCRIPTION	CKT NO.	KEY
	1	HVAC, FCUs, ARAE-B, FF	20 A	1	10	10	10	1.15	0.77		12	12	12	1	20 A	HVAC, FCUs, ARAE-B, FF	2	
	3	HVAC, FCUs, ARAE-B, FF	20 A	1	12	12	12			0.77	0.72			12	12	12	1	20 A	HVAC, FCUs, ARAE-B, FF	4	
	5	HVAC, FCUs, ARAE-B, SF	20 A	1	10	10	10					1.44	0.72	10	10	10	1	20 A	HVAC, FCUs, ARAE-B, FF	6	
	7	HVAC, FCUs, ARAE-B, SF	20 A	1	12	12	12	1.34	1.15					10	10	10	1	20 A	HVAC, FCUs, ARAE-A, SF	8	
	9	HVAC, FCUs, ARAE-B, SF	20 A	1	12	12	12			1.34	1.1			10	10	10	1	20 A	HVAC, FCUs, ARAE-B, SF	10	
	11	HVAC, FCUs, ARAE-A, TF	20 A	1	10	10	10					1.34	1.34	12	12	12	1	20 A	HVAC, FCUs, ARAE-B, SF	12	
	13	HVAC, FCUs, ARAE-B, TF	20 A	1	10	10	10	1.1	0.77					10	10	10	1	20 A	HVAC, FCUs, ARAE-B, TF	14	
	15	HVAC, FCUs, ARAE-B, TF	20 A	1	12	12	12			1.25	0.34			10	10	10	1	20 A	HVAC, FCUs, ARAE-B, TF	16	
	17	HVAC, FCUs, ARAE-B, TF	20 A	1	10	10	10					1.25	1.1	10	10	10	1	20 A	HVAC, FCUs, ARAE-B, TF	18	
--	19	SPARE	20 A	1	--	--	--	0	1.01					12	12	12	1	20 A	HVAC, FCUs, ARAE-B, TF	20	
--	21	SPARE	20 A	1	--	--	--			0	0			--	--	--	1	20 A	SPARE	22	--
--	23	SPARE	20 A	1	--	--	--					0	0	--	--	--	1	20 A	SPARE	24	--
--	25	SPARE	20 A	1	--	--	--	0	0					--	--	--	1	20 A	SPARE	26	--
--	27	SPARE	20 A	1	--	--	--			0	0			--	--	--	1	20 A	SPARE	28	--
--	29	SPARE	20 A	1	--	--	--					0	0	--	--	--	1	20 A	SPARE	30	--
--	31	SPARE	20 A	1	--	--	--	0	0					--	--	--	1	20 A	SPARE	32	--
--	33	SPARE	20 A	1	--	--	--			0	0			--	--	--	1	20 A	SPARE	34	--
--	35	SPARE	20 A	1	--	--	--					0	0	--	--	--	1	20 A	SPARE	36	--
--	37	SPACE	--	--	--	--	--	0	0					--	--	--	--	--	SPACE	38	--
--	39	SPACE	--	--	--	--	--			0	0			--	--	--	--	--	SPACE	40	--
--	41	SPACE	--	--	--	--	--					0	0	--	--	--	--	--	SPACE	42	--
								Total Load:	7.30 kVA		5.52 kVA		7.20 kVA						
								Total Amps:	62.95		46.00		62.15						

LOAD SUMMARY

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND
HVAC	20.016 kVA	90.00%	18.014 kVA

TOTALS*	
TOTAL CONNECTED LOAD:	20.02 kVA
TOTAL ESTIMATED DEMAND LOAD:	18.014 kVA
TOTAL CONNECTED AMPS:	55.56 A
TOTAL ESTIMATED DEMAND AMPS:	50 A

*TOTAL DEMAND CALCS SUBTRACT ANY REDUNDANT LOAD AND THE SMALLER OF ANY NONCOINCIDENT HVAC LOADS. THIS CALC IS DONE AT EACH PANEL.

CIRCUIT KEY NOTES:

PANEL MLB3

MOUNTING: SURFACE
ENCLOSURE: NEMA PB 1
FED FROM: 200 A/3P @ DP-ML
LOCATION: SU. FAN 2

SOLID NEUTRAL
GROUND BUS

MAIN: 200 A MLO
VOLTS: 120/208 Wye
PHASE: 3
WIRE: 4
SCCR: 10 kA
ISC: 3.70 kA

NOTES: PROVIDE SINGLE TUB WITH 60 POLES

KEY	CKT NO.	LOAD DESCRIPTION	OCPD AMPS	P	WIRE SIZE H	N	G	A	B	C	WIRE SIZE G	N	H	P	OCPD AMPS	LOAD DESCRIPTION	CKT NO.	KEY
	1	HVAC, FCUs, AREA-A , FF	20 A	1	12	12	12	0.72	0.77					12	12	12	1	20 A	HVAC, FCUs, AREA-A , FF	2	
	3	HVAC, FCUs, AREA-A , FF	20 A	1	12	12	12			1.44	0.77			10	10	10	1	20 A	HVAC, FCUs, AREA-A , FF	4	
	5	HVAC, FCUs, AREA-A , FF	20 A	1	12	12	12					1.06	1.34	12	12	12	1	20 A	HVAC, FCUs, AREA-A , FF	6	
	7	HVAC, FCUs, AREA-A , FF	20 A	1	12	12	12	1.25	1.25					10	10	10	1	20 A	HVAC, FCUs, AREA-A , FF	8	
	9	HVAC, FCUs, AREA-B , FF	20 A	1	10	10	10			1.25	1.25			10	10	10	1	20 A	HVAC, FCUs, AREA-A , FF	10	
	11	HVAC, FCUs, AREA-A , FF	20 A	1	10	10	10					0.67	0.77	10	10	10	1	20 A	HVAC, FCUs, AREA-A , SF	12	
	13	HVAC, FCUs, AREA-A , SF	20 A	1	12	12	12	1.06	1.34					12	12	12	1	20 A	HVAC, FCUs, AREA-A , SF	14	
	15	HVAC, FCUs, AREA-A , SF	20 A	1	10	10	10			1.34	0.77			10	10	10	1	20 A	HVAC, FCUs, AREA-A , SF	16	
	17	HVAC, FCUs, AREA-A , SF	20 A	1	12	12	12					1.34	1.34	12	12	12	1	20 A	HVAC, FCUs, AREA-A , SF	18	
	19	HVAC, FCUs, AREA-A , SF	20 A	1	10	10	10	1.44	0.77					10	10	10	1	20 A	HVAC, FCUs, AREA-B, SF	20	
	21	HVAC, FCUs, AREA-A, TF	20 A	1	10	10	10			0.77	0.77			10	10	10	1	20 A	HVAC, FCUs, AREA-A , TF	22	
	23	HVAC, FCUs, AREA-B , TF	20 A	1	10	10	10					1.39	1.34	10	10	10	1	20 A	HVAC, FCUs, AREA-A , TF	24	
	25	HVAC, FCUs, AREA-A, TF	20 A	1	10	10	10	1.44	1.34					12	12	12	1	20 A	HVAC, FCUs, AREA-A , TF	26	
	27	HVAC, FCUs, AREA-B, TF	20 A	1	10	10	10			1.39	1.06			10	10	10	1	20 A	HVAC, FCUs, AREA-A , TF	28	
	29	HVAC, FCUs, AREA-B, TF	20 A	1	10	10	10					1.06	0.4	10	10	10	1	20 A	HVAC, DF-2, AREA-A, TF	30	
	31	HVAC, DF-1, AREA-A, TF	20 A	1	10	10	10	0.4	0.89					10	10	10	1	20 A	HVAC, FCUs, AREA-A , FF	32	
	33	HVAC, FCUs, AREA-A , FF	20 A	1	10	10	10			0.89	1.25			10	10	10	1	20 A	HVAC, FCUs, AREA-A , SF	34	
--	35	SPARE	20 A	1	--	--	--					0	0	--	--	--	1	20 A	SPARE	36	--
--	37	SPARE	20 A	1	--	--	--	0	0					--	--	--	1	20 A	SPARE	38	--
--	39	SPARE	20 A	1	--	--	--			0	0			--	--	--	1	20 A	SPARE	40	--
--	41	SPARE	20 A	1	--	--	--					0	0	--	--	--	1	20 A	SPARE	42	--
--	43	SPARE	20 A	1	--	--	--	0	0					--	--	--	1	20 A	SPARE	44	--
--	45	SPARE	20 A	1	--	--	--			0	0			--	--	--	1	20 A	SPARE	46	--
--	47	SPARE	20 A	1	--	--	--					0	0	--	--	--	1	20 A	SPARE	48	--
--	49	SPARE	20 A	1	--	--	--	0	0					--	--	--	1	20 A	SPARE	50	--
--	51	SPARE	20 A	1	--	--	--			0	0			--	--	--	1	20 A	SPARE	52	--
--	53	SPACE	--	--	--	--	--					0	0	--	--	--	--	--	SPACE	54	--
--	55	SPACE	--	--	--	--	--	0	0					--	--	--	--	--	SPACE	56	--
--	57	SPACE	--	--	--	--	--			0	0			--	--	--	--	--	SPACE	58	--
--	59	SPACE	--	--	--	--	--					0	0	--	--	--	--	--	SPACE	60	--
								Total Load:	12.66 kVA		12.94 kVA		10.72 kVA						
								Total Amps:	108.03		110.29		89.33						

LOAD SUMMARY

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND
HVAC	36.32 kVA	90.00%	32.688 kVA

TOTALS*	
TOTAL CONNECTED LOAD:	36.32 kVA
TOTAL ESTIMATED DEMAND LOAD:	32.688 kVA
TOTAL CONNECTED AMPS:	100.81 A
TOTAL ESTIMATED DEMAND AMPS:	90.7 A

*TOTAL DEMAND CALCS SUBTRACT ANY REDUNDANT LOAD AND THE SMALLER OF ANY NONCOINCIDENT HVAC LOADS. THIS CALC IS DONE AT EACH PANEL.

CIRCUIT KEY NOTES:

PANEL MLB4

MOUNTING: SURFACE
ENCLOSURE: NEMA PB 1
FED FROM: 225 A/3P @ DP-ML
LOCATION: STORAGE

SOLID NEUTRAL
GROUND BUS

MAIN: 225 A MLO
VOLTS: 120/208 Wye
PHASE: 3
WIRE: 4
SCCR: 10 kA
ISC: 3.51 kA

NOTES: PROVIDE SINGLE TUB WITH 60 POLES

KEY	CKT NO.	LOAD DESCRIPTION	OCPD AMPS	P	WIRE SIZE H	N	G	A	B	C	WIRE SIZE G	N	H	P	OCPD AMPS	LOAD DESCRIPTION	CKT NO.	KEY
	1	HVAC, FCUs, AREA-A, BASEMENT	20 A	1	10	10	10	1.39	1.44					12	12	12	1	20 A	HVAC, FCUs, AREA-E, BASEMENT	2	
	3	HVAC, FCUs, AREA-A, BASEMENT	20 A	1	12	12	12			0.72	0.72			12	12	12	1	20 A	HVAC, FCUs, AREA-E, BASEMENT	4	
	5	HVAC, FCUs, AREA-A, BASEMENT	20 A	1	12	12	12					1.44	1.1	10	10	10	1	20 A	HVAC, FCUs, AREA-A, FF	6	
	7	HVAC, FCUs, AREA-A, FF	20 A	1	10	10	10	1.25	1.44					10	10	10	1	20 A	HVAC, FCUs, AREA-A, FF	8	
	9	HVAC, FCUs, AREA-E, FF	20 A	1	10	10	10			1.34	1.44			12	12	12	1	20 A	HVAC, FCUs, AREA-E, FF	10	
	11	HVAC, FCUs, AREA-E, FF	20 A	1	10	10	10					0.62	1.34	12	12	12	1	20 A	HVAC, FCUs, AREA-A, FF	12	
	13	HVAC, FCUs, AREA-A, FF	20 A	1	12	12	12	1.25	1.34					12	12	12	1	20 A	HVAC, FCUs, AREA-E, FF	14	
	15	HVAC, FCUs, AREA-A, FF	20 A	1	12	12	12			1.34	1.1			10	10	10	1	20 A	HVAC, FCUs, AREA-A, FF	16	
	17	HVAC, FCUs, AREA-E, FF	20 A	1	12	12	12					1.34	1.02	10	10	10	1	20 A	HVAC, FCUs, AREA-A, SF	18	
	19	HVAC, FCUs, AREA-A, SF	20 A	1	10	10	10	1.02	1.44					10	10	10	1	20 A	HVAC, FCUs, AREA-F, SF	20	
	21	HVAC, FCUs, AREA-A, SF	20 A	1	10	10	10			1.34	1.34			10	10	10	1	20 A	HVAC, FCUs, AREA-F, SF	22	
	23	HVAC, FCUs, AREA-F, SF	20 A	1	10	10	10					1.25	1.34	12	12	12	1	20 A	HVAC, FCUs, AREA-A, SF	24	
	25	HVAC, FCUs, AREA-F, SF	20 A	1	12	12	12	1.34	1.34					10	10	10	1	20 A	HVAC, FCUs, AREA-A, SF	26	
	27	HVAC, FCUs, AREA-A, SF	20 A	1	12	12	12			1.34	1.44			10	10	10	1	20 A	HVAC, FCUs, AREA-A, TF	28	
	29	HVAC, FCUs, AREA-A, SF	20 A	1	10	10	10					1.1	1.34	10	10	10	1	20 A	HVAC, FCUs, AREA-F, TF	30	
	31	HVAC, FCUs, AREA-A, TF	20 A	1	10	10	10	0.38	1.34					10	10	10	1	20 A	HVAC, FCUs, AREA-F, TF	32	
	33	HVAC, FCUs, AREA-F, TF	20 A	1	10	10	10			1.25	1.34			12	12	12	1	20 A	HVAC, FCUs, AREA-F, TF	34	
	35	HVAC, FCUs, AREA-A, TF	20 A	1	12	12	12					1.34	1.34	10	10	10	1	20 A	HVAC, FCUs, AREA-A, TF	36	
	37	HVAC, FCUs, AREA-A, TF	20 A	1	10	10	10	1.06	1.32					10	10	10	1	20 A	HVAC, FCUs, AREA-A, BASEMENT	38	
	39	HVAC, FCUs, AREA-A, TF	20 A	1	10	10	10			0.72	0.64			10	10	10	1	20 A	HVAC, FCUs, AREA-A, FF	40	
	41	HVAC, FCUs, AREA-A, BASEMENT	20 A	1	10	10	10					0.64	0	--	--	--	1	20 A	SPARE	42	--
--	43	SPARE	20 A	1	--	--	--	0	0					--	--	--	1	20 A	SPARE	44	--
--	45	SPARE	20 A	1	--	--	--			0	0			--	--	--	1	20 A	SPARE	46	--
--	47	SPARE	20 A	1	--	--	--					0	0	--	--	--	1	20 A	SPARE	48	--
--	49	SPARE	20 A	1	--	--	--	0	0					--	--	--	1	20 A	SPARE	50	--
--	51	SPARE	20 A	1	--	--	--			0	0			--	--	--	1	20 A	SPARE	52	--
--	53	SPACE	--	--	--	--	--					0	0	--	--	--	--	--	SPACE	54	--
--	55	SPACE	--	--	--	--	--	0	0					--	--	--	--	--	SPACE	56	--
--	57	SPACE	--	--	--	--	--			0	0			--	--	--	--	--	SPACE	58	--
--	59	SPACE	--	--	--	--	--					0	0	--	--	--	--	--	SPACE	60	--
								Total Load:	17.36 kVA		16.09 kVA		15.24 kVA						
								Total Amps:	145.79		135.19		127.00						

LOAD SUMMARY

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND
HVAC	48.696 kVA	90.00%	43.826 kVA

TOTALS*	
TOTAL CONNECTED LOAD:	48.70 kVA
TOTAL ESTIMATED DEMAND LOAD:	43.826 kVA
TOTAL CONNECTED AMPS:	135.17 A
TOTAL ESTIMATED DEMAND AMPS:	121.6 A

*TOTAL DEMAND CALCS SUBTRACT ANY REDUNDANT LOAD AND THE SMALLER OF ANY NONCOINCIDENT HVAC LOADS. THIS CALC IS DONE AT EACH PANEL.

CIRCUIT KEY NOTES:

EXISTING PANEL STAIR

MOUNTING: SURFACE
ENCLOSURE: NEMA PB 1
FED FROM: EXISTING
LOCATION: EXISTING STAIR

SOLID NEUTRAL
GROUND BUS

MAIN: 100 A MLO
VOLTS: 120/240 Single
PHASE: 1
WIRE: 3
SCCR: EXISTING
ISC UNKNOWN 0.00 kA

NOTES:

KEY	CKT NO.	LOAD DESCRIPTION	OCPD AMPS	P	WIRE SIZE H	N	G	A	B	WIRE SIZE G	N	H	P	OCPD AMPS	LOAD DESCRIPTION	CKT NO.	KEY
--	1	Existing loads, *E	20 A	1	--	--	--	0	0	--	--	--	1	20 A	Existing loads, *E	2	--
--	3	Existing loads, *E	20 A	2	--	--	--			--	--	--	2	20 A	Existing loads, *E	4	--
--	5	--	--	--	--	--	--	0	0	--	--	--	--	--	--	6	--
--	7	Existing loads, *E	20 A	1	--	--	--			0	0.36	10	10	1	20 A	Receptacles, ROOF, *NB	8	
								Total Load:	0.00 kVA		0.36 kVA						
								Total Amps:	0.00		3.00						

LOAD SUMMARY

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND
Receptacles	0.36 kVA	100.00%	0.36 kVA

TOTALS*	
TOTAL CONNECTED LOAD:	0.36 kVA
TOTAL ESTIMATED DEMAND LOAD:	0.36 kVA
TOTAL CONNECTED AMPS:	1.50 A
TOTAL ESTIMATED DEMAND AMPS:	1.5 A

*TOTAL DEMAND CALCS SUBTRACT ANY REDUNDANT LOAD AND THE SMALLER OF ANY NONCOINCIDENT HVAC LOADS. THIS CALC IS DONE AT EACH PANEL.

CIRCUIT KEY NOTES: *E = EXISTING REMAINING LOAD, *NB = NEW BREAKER (NEW BREAKER CHARACTERISTICS SHALL MATCH EXISTING) IN EXISTING SPACE, NEW WIRING.

EXISTING PANEL PPN

MOUNTING: SURFACE
ENCLOSURE: NEMA PB 1
FED FROM: 150 A/3P @
LOCATION: EXISTING WASHER/DRYER ROOM

SOLID NEUTRAL
GROUND BUS

MAIN: 150 A MCB
VOLTS: 120/208 Wye
PHASE: 3
WIRE: 4
SCCR: EXISTING
ISC UNKNOWN 0.00 kA

NOTES:

KEY	CKT NO.	LOAD DESCRIPTION	OCPD AMPS	P	WIRE SIZE H	N	G	A	B	C	WIRE SIZE G	N	H	P	OCPD AMPS	LOAD DESCRIPTION	CKT NO.	KEY
--	1	Existing loads, *E	20 A	1	--	--	--	0	0			--	--	2	30 A	Existing loads, *E	2	--
--	3	Existing loads, *E	20 A	1	--	--	--			0	0	--	--	--	--	--	4	--
--	5	Existing loads, *E	20 A	1	--	--	--					0	0	--	--	--	1	20 A	Existing loads, *E	6	--
--	7	Existing loads, *E	20 A	1	--	--	--	0	0					--	--	--	1	20 A	Existing loads, *E	8	--
--	9	Existing loads, *E	20 A	1	--	--	--			0	0			--	--	--	1	20 A	Existing loads, *E	10	--
--	11	Existing loads, *E	20 A	1	--	--	--					0	0	--	--	--	1	20 A	Existing loads, *E	12	--
--	13	Existing loads, *E	20 A	1	--	--	--	0	0					--	--	--	1	20 A	Existing loads, *E	14	--
--	15	Existing loads, *E	50 A	3	--	--	--			0	0			--	--	--	1	20 A	Existing loads, *E	16	--
--	17	--	--	--	--	--	--					0	0	--	--	--	1	--	SPACE	18	--
--	19	--	--	--	--	--	--	0	0					--	--	--	1	20 A	Existing loads, *E	20	--
--	21	Existing loads, *E	30 A	2	--	--	--			0	0			--	--	--	1	20 A	Existing loads, *E	22	--
--	23	--	--	--	--	--	--					0	0.5	12	12	12	1	20 A	Power, RTU-7EH LIGHTS, *NB	24	
--	25	Existing loads, *E	20 A	1	--	--	--	0	0.5					10	10	10	1	20 A	Power, RTU-6EH LIGHTS, *NB	26	
	27	Power, RTU-5EH LIGHTS, *NB	20 A	1	12	12	12			0.5	0			--	--	--	--	--	SPACE	28	--
	29	Power, RTU-8EH LIGHTS, *NB	20 A	1	12	12	12					0.5	0	--	--	--	--	--	SPACE	30	--
	31	Power, RTU-9EH LIGHTS, *NB	20 A	1	10	10	10	0.5	0					--	--	--	--	--	SPACE	32	--
--	33	SPACE	--	--	--	--	--			0	0			--	--	--	--	--	SPACE	34	--
--	35	SPACE	--	--	--	--	--					0	0	--	--	--	--	--	SPACE	36	--
--	37	SPACE	--	--	--	--	--	0	0					--	--	--	--	--	SPACE	38	--
--	39	SPACE	--	--	--	--	--			0	0			--	--	--	--	--	SPACE	40	--
--	41	SPACE	--	--	--	--	--					0	0	--	--	--	--	--	SPACE	42	--
								Total Load:	1.00 kVA		0.50 kVA		1.00 kVA						
								Total Amps:	8.97		4.17		8.97						

LOAD SUMMARY

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND
Power	2.5 kVA	100.00%	2.5 kVA

TOTALS*	
TOTAL CONNECTED LOAD:	2.50 kVA
TOTAL ESTIMATED DEMAND LOAD:	2.5 kVA
TOTAL CONNECTED AMPS:	6.94 A
TOTAL ESTIMATED DEMAND AMPS:	6.9 A

*TOTAL DEMAND CALCS SUBTRACT ANY REDUNDANT LOAD AND THE SMALLER OF ANY NONCOINCIDENT HVAC LOADS. THIS CALC IS DONE AT EACH PANEL.

CIRCUIT KEY NOTES: *E = EXISTING REMAINING LOAD, *NB = NEW BREAKER IN EXISTING SPACE, NEW WIRING.

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PROFESSIONAL SEAL

CONSULTANT
(MAY BE USED FOR ANY OTHER REQUIREMENT IF THERE IS NO CONSULTANT)

KEY PLAN

AGENCY APPROVAL

PRELIMINARY NOT FOR CONSTRUCTION

OSHPD # REMOVE IF THERE IS NO OSHPD # ON PROJECT

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REFERENCE SCALE IN INCHES
0 1 2

REVISIONS

No.	Date	Revision / Issue

SHEET INFORMATION

Issue	**BID DOCUMENTS**
Date	**JANUARY 28, 2022**
Job Number	**21002885.04**
Drawn	**Author**
Checked	**Checker**
Approved	**Approver**

SHEET TITLE
ELECTRICAL SCHEDULES

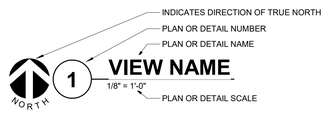
SCALE
Scale:

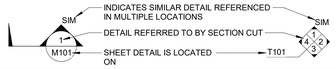
SHEET NUMBER
E602

VIEW KEY

NAME — LEVEL NAME
10'-0" — HEIGHT ABOVE PROJECT 0'-0"

1 — INDICATES NOTE USED TO DESCRIBE ADDITIONAL INFORMATION ABOUT WORK REQUIRED, SPECIFIC TO THE SHEET AND/OR DETAIL





LINE TYPE AND TAG KEY:

NEW WORK BY THIS CONTRACTOR (WIDE LINE)
- NEW
- EXISTING TO BE REMOVED (SHORT DASHED PATTERN)
- NEW UNDERFLOOR OR UNDERGROUND (LONG DASHED PATTERN)

EXISTING TO REMAIN OR WORK BY OTHERS (NARROW LINE)
- EXISTING
- EXISTING TO BE REMOVED BY OTHERS (SHORT DASHED PATTERN)
- EXISTING UNDERFLOOR OR UNDERGROUND (LONG DASHED PATTERN)

HALFTONING DOES NOT MODIFY SCOPE.

'TAG'-E — TAGS WITH DASH 'E' INDICATES THE REFERENCED OBJECT IS EXISTING

TAG-1 — UNDERLINED TAG INDICATES OBJECT IS IN-SCOPE. IF NEW, ADDITIONAL INFORMATION IS AVAILABLE IN A SCHEDULE, MATERIAL LIST, OR SYMBOL LIST

INDICATES AN EXISTING SYSTEM'S POINT OF CONNECTION/REMOVAL

FIRE / SMOKE BARRIER DESIGNATIONS

THE LINE TYPES SHOWN ARE FOR THE CONVENIENCE OF THE CONTRACTOR. THE CONTRACTOR SHALL VERIFY RATINGS WITH THE LATEST SET OF ARCHITECTURAL PLANS AND FURNISH ALL MATERIALS REQUIRED TO COMPLY WITH THOSE RATINGS WHETHER SHOWN OR NOT.

ALL [FLOOR, FLOOR CEILING, AND ROOF CEILING] ASSEMBLIES SHALL BE DESIGNATED AS 1 OR 2 HOUR FIRE BARRIERS, UNLESS NOTED OTHERWISE ON THE PLANS. RATINGS WERE ACQUIRED FROM THE ARCHITECTURAL PLANS DATED [12/28/2021].

1 HOUR FIRE WALL	
2 HOUR FIRE WALL	

CONTRACTOR ABBREVIATION KEY

ABBR:	DESCRIPTION:
A.C.	ASBESTOS ABATEMENT CONTRACTOR
C.C.	CIVIL CONTRACTOR
C.M.	CONSTRUCTION MANAGER
E.C.	ELECTRICAL CONTRACTOR
F.P.C.	FIRE PROTECTION CONTRACTOR
G.C.	GENERAL CONTRACTOR
H.C.	HEATING CONTRACTOR
M.C.	MECHANICAL CONTRACTOR
T.C.C.	TEMPERATURE CONTROLS CONTRACTOR
V.C.	VENTILATION CONTRACTOR

MECHANICAL DESIGN CONDITIONS:

DESIGN CONDITIONS: **BASED ON WEATHER DATA FOR: ROCKFORD, ILLINOIS**

SUMMER: 95°F DRY BULB,78°F WET BULB
WINTER: -15°F DRY BULB

TYPICAL ROOM SETPOINTS:

SUMMER DESIGN: 76°F DRY BULB, 55% RELATIVE HUMIDITY
WINTER DESIGN: 68°F DRY BULB, NO HUMIDITY REQUIREMENT
SUMMER SETBACK: 85°F DRY BULB, NO HUMIDITY REQUIREMENT
WINTER SETBACK: 60°F DRY BULB, NO HUMIDITY REQUIREMENT

REFER TO CONTROL DIAGRAMS FOR ROOM SPECIFICS.

MECHANICAL SYMBOL LIST

NOT ALL SYMBOLS MAY APPLY.

SYMBOL:	DESCRIPTION:
CW	COLD WATER - POTABLE
CWR	CHILLED WATER RETURN
CWS	CHILLED WATER SUPPLY
G	NATURAL GAS
GRV	GAS REGULATOR VENT
HWR	HEATING WATER RETURN
HWS	HEATING WATER SUPPLY
LPS	LOW PRESSURE STEAM
MPG	MEDIUM PRESSURE GAS
PC	PUMPED CONDENSATE
PD	PUMPED DISCHARGE
SAN	SANITARY DRAINAGE
SV	SAFETY RELIEF VENT
V	VENT
	PIPE CAP
	PIPE DOWN
	PIPE UP OR UP/DOWN
FD	PIPE SERVING FIXTURE ON FLOOR ABOVE (EXAMPLE: FD = FLOOR DRAIN)
	PITCH PIPE IN DIRECTION
	DIRECTION OF FLOW IN PIPE
	ROUTE TO DRAIN
	SHUTOFF VALVE NORMALLY OPEN
	SHUTOFF VALVE NORMALLY CLOSED
	THROTTLING VALVE
	BALANCING VALVE (NUMBER INDICATES GPM)
	MIXING VALVE
	CONTROL VALVE (THREE-WAY)
	CONTROL VALVE (TWO-WAY)
	SOLENOID VALVE
	SAFETY/RELIEF VALVE
	PRESSURE REDUCING VALVE (LIQUID/GAS)
	PRESSURE REDUCING VALVE (STEAM)
	TRIPLE DUTY VALVE (ANGLE TYPE)
	TRIPLE DUTY VALVE (IN-LINE TYPE)
	PUMP
	VACUUM BREAKER
	"WYE" - STRAINER
	"WYE" - STRAINER W/SHUTOFF VALVE AND HOSE CONNECTION WITH CAP
	AUTOMATIC DRAIN VALVE
	ANGLE VALVE
	BUTTERFLY VALVE WITH MONITOR SWITCH
	CHECK VALVE
	SAFETY/RELIEF VALVE
	PRESSURE REDUCING VALVE (LIQUID/GAS)
	BASKET STRAINER
	PRESSURE/TEMPERATURE TEST PLUG
	REDUCER - REFERENCE SPECIFICATION FOR CONCENTRIC/ECCENTRIC AND FOT/FOB
	SUCTION DIFFUSER WITH SUPPORT FOOT
	AUTOMATIC AIR VENT
	MANUAL AIR VENT
	DRAIN VALVE WITH HOSE CONNECTION AND CAP
T-*	STEAM TRAP (REFER TO SCHEDULE)
T-*	F&T STEAM TRAP (REFER TO SCHEDULE)
T-*	INVERTED BUCKET STEAM TRAP (REFER TO SCHEDULE)
EJ-## (#.#")	EXPANSION JOINT #.#" IS THE EXPANSION TRAVEL INCHES
M	METER

MECHANICAL SHEET INDEX

M000	MECHANICAL COVERSHEET
M000A	SUBFLOOR DEMOLITION - MECHANICAL - AREA A
M000D	SUBFLOOR DEMOLITION - MECHANICAL - AREA D
M100A	BASEMENT DEMOLITION - MECHANICAL - AREA A
M100B	BASEMENT DEMOLITION - MECHANICAL - AREA B
M100C	BASEMENT DEMOLITION - MECHANICAL - AREA C
M100D	BASEMENT DEMOLITION - MECHANICAL - AREA D
M100E	BASEMENT DEMOLITION - MECHANICAL - AREA E
M101A	FIRST FLOOR DEMOLITION - MECHANICAL - AREA A
M101B	FIRST FLOOR DEMOLITION - MECHANICAL - AREA B
M101E	FIRST FLOOR DEMOLITION - MECHANICAL - AREA E
M102A	SECOND FLOOR DEMOLITION - MECHANICAL - AREA A
M102B	SECOND FLOOR DEMOLITION - MECHANICAL - AREA B & F
M103A	THIRD FLOOR DEMOLITION - MECHANICAL - AREA A
M103B	THIRD FLOOR DEMOLITION - MECHANICAL - AREA B & F
M104A	ROOF DEMOLITION - MECHANICAL - AREA A
M104B	ROOF DEMOLITION - MECHANICAL - AREA B
M104C	ROOF DEMOLITION - MECHANICAL - AREA C
M104D	ROOF DEMOLITION - MECHANICAL - AREA D
M104E	ROOF DEMOLITION - MECHANICAL - AREA E
M199A	SUBFLOOR - MECHANICAL - AREA A
M200A	BASEMENT FLOOR - MECHANICAL - AREA A
M200B	BASEMENT FLOOR - MECHANICAL - AREA B
M200C	BASEMENT FLOOR - MECHANICAL - AREA C
M200D	BASEMENT FLOOR - MECHANICAL - AREA D
M200E	BASEMENT FLOOR - MECHANICAL - AREA E
M201A	FIRST FLOOR - MECHANICAL - AREA A
M201B	FIRST FLOOR - MECHANICAL - AREA B
M201E	FIRST FLOOR - MECHANICAL - AREA E
M202A	SECOND FLOOR - MECHANICAL - AREA A
M202B	SECOND FLOOR - MECHANICAL - AREA B & F
M203A	THIRD FLOOR - MECHANICAL - AREA A
M203B	THIRD FLOOR - MECHANICAL - AREA B & F
M204A	ROOF - MECHANICAL - AREA A
M204B	ROOF - MECHANICAL - AREA B
M204C	ROOF - MECHANICAL - AREA C
M204D	ROOF - MECHANICAL - AREA D
M204E	ROOF - MECHANICAL - AREA E
M400	MECHANICAL DETAILS
M401	MECHANICAL DETAILS
M402	MECHANICAL DETAILS
M500	CHILLED WATER FLOW DIAGRAM
M501	STEAM TO HOT WATER FLOW DIAGRAM
M600	MECHANICAL SCHEDULES
M601	MECHANICAL SCHEDULES
GRAND TOTAL: 45	

MECHANICAL SYMBOL LIST

NOT ALL SYMBOLS MAY APPLY.

SYMBOL:	DESCRIPTION:
	DIRECTION OF AIR FLOW
	FLEXIBLE DUCT
	MANUAL VOLUME DAMPER
R	RISE IN DIRECTION OF AIR FLOW
D	DROP IN DIRECTION OF AIR FLOW
	DUCT CAP
	DUCT DOWN
	DUCT UP
	SUPPLY/OUTSIDE AIR DUCT SECTION
	RETURN AIR DUCT SECTION
	EXHAUST/RELIEF AIR DUCT SECTION
	4-WAY DIFFUSER WITH BLANKOFF IN ONE DIRECTION
SD-1 6/115	AIR TERMINAL PROPERTIES SYMBOL NECK SIZE/CFM
	FAN POWERED TERMINAL AIR BOX w/REHEAT COIL (REFER TO SCHEDULE)
	OPPOSED BLADE DAMPER (REFER TO SCHEDULE)
	PARALLEL BLADE DAMPER (REFER TO SCHEDULE)
XX-Y	AIRFLOW MEASUREMENT SYMBOL XX - AHU SYMBOL Y - SEQUENTIAL NUMBER
ACT	ACTUATOR
DS	DOOR SWITCH
DP	DIFFERENTIAL PRESSURE SWITCH
CS	CURRENT SWITCH
VS	VIBRATION SWITCH
FM	FLOW METER
	FAN
MTR	MOTOR
R	CONTACTOR
	PUMP
	NORMALL CLOSED CONTACT
	NORMALLY OPEN CONTACT
AI	ANALOG INPUT
AO	ANALOG OUTPUT
DI	DIGITAL INPUT
DO	DIGITAL OUTPUT
FM	FLOW METER
F	FLOW SWITCH
P	PRESSURE SWITCH
	MONITOR SWITCH
P	PRESSURE GAUGE (FURNISHED WITH BALL VALVE)
	DIFFERENTIAL PRESSURE SENSOR
P	PRESSURE SENSOR (DUCT MOUNTED)
SP	STATIC SWITCH
T	THERMOSTAT
T	THERMOSTAT/SENSOR WITH HEAVY DUTY ENCLOSURE
T	TEMPERATURE SENSOR WITH WELL
T	THERMOMETER WITH WELL (DIAL TYPE)
H	HUMIDISTAT SENSOR
C	CARBON MONOXIDE SENSOR
C_2	CARBON DIOXIDE SENSOR
	FILTER
DSD	DUCT SMOKE DETECTOR
	HEATING/ COOLING COIL
	AIR BLENDER

MECHANICAL ABBREVIATION KEY

ABBR:	DESCRIPTION:
AD	ACCESS DOOR
AFF	ABOVE FINISHED FLOOR
C	COMMON
CAB	CABINET HEATER
CFSD	CONTROL/FIRE/SMOKE DAMPER
CO	CLEANOUT
CONV	CONVECTOR
CUV	CABINENT UNIT VENTILATOR
DPG (0-2")	DIFFERENTIAL PRESSURE GAUGE (RANGE)
DPS	DIFFERENTIAL PRESSURE SWITCH
E	EXISTING
EA	EXHAUST/RELIEF AIR
ECFSD	EXISTING CONTROL FIRE SMOKE DAMPER
EE	EMERGENCY EYEWASH
EFD	EXISTING FIRE DAMPER
EFSD	EXISTING FIRE SMOKE DAMPER
EP	ELECTRICAL TO PNEUMATIC VALVE
ESD	EXISTING SMOKE DAMPER
ESE	EMERGENCY SHOWER/EYEWASH
EWC	ELECTRIC WATER COOLER
FCO	FLOOR CLEANOUT
FD	FIRE DAMPER
FM	FLOW METER
FOB	FLAT ON BOTTOM
FOT	FLAT ON TOP
FS	FLOOR SINK
FSD	FIRE/SMOKE DAMPER
HB	HOSE BIBB
I.E.	INVERT ELEVATION (FOR REFERENCE ONLY)
MA	MIXED AIR
MH	MANHOLE
N.C.	NORMALLY CLOSED
NIC	NOT IN CONTRACT
N.O.	NORMALLY OPEN
NT	NEUTRALIZATION TANK
OA	OUTSIDE AIR
PS	PRESSURE SWITCH
RA	RETURN AIR
RAD	RADIATOR
RUH	RECESSED UNIT HEATER
SA	SUPPLY AIR
SCCR	SHORT CIRCUIT CURRENT RATING
SD	SMOKE DAMPER
TAB	TERMINAL AIR BOX
TD	TRANSFER DUCT
TYP	TYPICAL
UB	UTILITY BOX
UC-1	DOOR UNDERCUT BY OTHERS (1" TYPICAL)
UON	UNLESS OTHERWISE NOTED
VTR	VENT THROUGH ROOF
WCO	WALL CLEANOUT
YCO	YARD CLEANOUT

MECHANICAL GENERAL NOTES:

THESE NOTES APPLY TO ALL MECHANICAL SHEETS AND TRADES, INCLUDING BUT NOT LIMITED TO, FIRE PROTECTION, PLUMBING, MEDICAL GAS, VENTILATION, PIPING AND TEMPERATURE CONTROL.

1. DRAWINGS SHOWING LOCATIONS OF EQUIPMENT, DUCTWORK, PIPING, ETC. ARE DIAGRAMMATIC AND MAY NOT ALWAYS REFLECT EXACT INSTALLATION CONDITIONS. DRAWINGS SHOW THE GENERAL ARRANGEMENT OF DUCTWORK, PIPING, EQUIPMENT, ETC., AND MAY NOT INCLUDE ALL OFFSETS AND FITTINGS REQUIRED FOR COMPLETE INSTALLATION. THE DRAWINGS SHALL BE FOLLOWED AS CLOSELY AS ACTUAL BUILDING CONSTRUCTION AND THE WORK OF OTHERS WILL PERMIT.
2. DO NOT SCALE DRAWINGS. VERIFY ALL DIMENSIONS AND CLEARANCES FROM ARCHITECTURAL, STRUCTURAL, SUBMITTALS, AND OTHER APPROPRIATE DRAWINGS OR PHYSICALLY AT SITE. REVIEW ALL DRAWINGS, INCLUDING THOSE OF OTHER TRADES.
3. COORDINATE ALL WORK WITH ALL OTHER TRADES PRIOR TO INSTALLATION TO PROVIDE CLEARANCES REQUIRED FOR OPERATION, MAINTENANCE, CODE COMPLIANCE, AND TO VERIFY NON-INTERFERENCE WITH OTHER WORK. DO NOT FABRICATE PRIOR TO VERIFICATION OF NECESSARY CLEARANCES FOR ALL TRADES. BRING ANY INTERFERENCES OR CONFLICTS TO THE ATTENTION OF THE ARCHITECT/ENGINEER BEFORE PROCEEDING WITH FABRICATION OR EQUIPMENT ORDERS.
4. REVIEW SPACE REQUIREMENTS OF EQUIPMENT SPECIFIED OR SUBSTITUTED AND MAKE REASONABLE ACCOMMODATIONS IN LAYOUT AND POSITIONING TO PROVIDE PROPER ACCESS.
5. ANY CHANGES REQUIRED TO ELIMINATE CONFLICTS OR THAT RESULT FROM A FAILURE TO COORDINATE SHALL BE MADE BY THE CONTRACTOR WITHOUT ADDITIONAL COST OR EXPENSE TO OTHERS.
6. EACH CONTRACTOR IS RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH ELECTRICAL CHANGES REQUIRED FOR EQUIPMENT PROPOSED THAT DIFFERS FROM THE BASIS OF DESIGN.
7. REFER TO ARCHITECTURAL REFLECTED CEILING PLAN, ELECTRICAL, TECHNOLOGY AUDIO/VISUAL, AND OTHER MECHANICAL PLANS FOR EXACT LOCATIONS OF ALL CEILING MOUNTED DEVICES, OTHER THAN SPRINKLERS.
8. EACH CONTRACTOR IS RESPONSIBLE FOR DAMAGE CAUSED BY THEIR ACTIONS TO WALLS, FLOORS, CEILINGS, AND ROOFS. THE CONTRACTOR WHOSE WORK CAUSES DAMAGE IS RESPONSIBLE FOR PATCHING TO MATCH ORIGINAL CONSTRUCTION, FIRE RATING, AND FINISH.
9. IN AREAS WITH DRYWALL CEILINGS COORDINATE LOCATIONS OF ACCESS PANELS WITH THE GC FOR ACCESS TO VALVES, DUCTWORK ACCESSORIES, DAMPERS, ETC. COORDINATE PANEL TYPE AND COLOR WITH ARCHITECT. NOTIFY THE GC OF THE REQUIRED ACCESS PANELS PRIOR TO BIDDING.
10. SEAL ALL FLOOR, WALL, AND ROOF PENETRATIONS AIRTIGHT WHERE CONDUITS, PIPING, AND DUCTS PENETRATE. PENETRATIONS THROUGH EXTERIOR WALLS AND ROOF SHALL BE SEALED AIRTIGHT WITH WATERPROOFING MATERIALS RECOMMENDED BY MANUFACTURER FOR OUTDOOR USE.
11. CAULK ALL PIPE AND DUCT PENETRATIONS OF FULL HEIGHT NON-FIRE RATED WALL, PARTITION, FLOOR, AND ROOF ASSEMBLIES. THIS IS ESSENTIAL TO PREVENT NOISE TRANSMISSION FROM ONE ROOM TO ANOTHER AND TO PROVIDE THE DESIRED NC LEVELS WITHIN ROOMS.
12. WHERE PIPES AND DUCTS ARE SHOWN TO PENETRATE FLOORS, PROVIDE SLEEVED OPENINGS WITH THE TOP EDGE RAISED ABOVE FLOOR SURFACE IN ACCORDANCE WITH ALL RELEVANT SPEC SECTIONS. SEAL SLEEVE PERIMETER TO BE WATERTIGHT.
13. EQUIPMENT SIZES AND SERVICE CLEARANCE REQUIREMENTS VARY AMONG DIFFERENT MANUFACTURERS. CONSULT APPROVED SHOP DRAWINGS FOR EQUIPMENT SIZES AND REQUIRED SERVICE CLEARANCES. COORDINATE WITH LAYOUT OF EQUIPMENT PADS, PIPING, DUCTWORK, ETC.
14. DO NOT BLOCK TUBE PULL OR EQUIPMENT SERVICE CLEARANCES.
15. MAINTAIN MINIMUM 3'-6" CLEARANCE IN FRONT OF ALL ELECTRICAL PANELS, MOTOR STARTERS, SWITCHES, AND DISCONNECTS.
16. PROVIDE CONCRETE EQUIPMENT PAD FOR ALL FLOOR MOUNTED EQUIPMENT. PAD SHALL EXTEND MINIMUM 6" BEYOND ALL SIDES OF EQUIPMENT.
17. DO NOT SUPPORT EQUIPMENT, PIPING, OR DUCTWORK FROM METAL DECKING OR OTHER NON-STRUCTURAL BUILDING ELEMENTS. ANCHORS EMBEDDED IN CONCRETE SHALL BE CRACKED CONCRETE APPROVED IN ACCORDANCE WITH SPECIFICATIONS.

MECHANICAL RENOVATION NOTES:

THESE NOTES APPLY TO ALL MECHANICAL SHEETS AND TRADES, INCLUDING BUT NOT LIMITED TO, PLUMBING, VENTILATION, PIPING AND TEMPERATURE CONTROL.

1. EXISTING CONDITIONS ARE SHOWN BASED ON INFORMATION OBTAINED FROM FIELD SURVEYS, EXISTING BUILDING DOCUMENTS, AND STAFF. VERIFY EXISTING CONDITIONS AND REPORT ANY CONFLICTS BEFORE PROCEEDING.
2. NOT ALL EXISTING DUCTWORK AND PIPING IS SHOWN. VERIFY EXISTING CONDITIONS BEFORE STARTING WORK. NOTIFY ENGINEER OF ANY CONFLICTS WITH NEW WORK.
3. FIELD VERIFY THE AVAILABLE CLEARANCES FOR DUCTWORK AND PIPING BEFORE FABRICATION. RISES AND DROPS MAY BE NECESSARY BECAUSE OF EXISTING FIELD CONDITIONS.
4. EACH CONTRACTOR SHALL CUT AND PATCH ROOFS, WALLS, AND FLOORS ASSOCIATED WITH HIS WORK.
5. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR REMOVAL AND REPLACEMENT OF CEILINGS, CEILING TILES, AND CEILING GRIDS ASSOCIATED WITH AREAS OF WORK BY ALL CONTRACTORS. NOTIFY THE GENERAL CONTRACTOR OF AFFECTED AREAS PRIOR TO BIDDING.
6. WHERE EXISTING MECHANICAL SYSTEMS ARE LOCATED IN AREAS THAT CONFLICT WITH NEW EQUIPMENT, PIPING, OR DUCTWORK TO BE INSTALLED, EACH CONTRACTOR SHALL EITHER ARRANGE NEW EQUIPMENT, PIPING, OR DUCTWORK IN SUCH A FASHION THAT IT DOES NOT CONFLICT WITH EXISTING SYSTEMS, OR REWORK EXISTING MECHANICAL SYSTEMS TO ALLOW FOR INSTALLATION OF NEW EQUIPMENT, PIPING, OR DUCTWORK.
7. PROVIDE TEMPORARY CONNECTIONS TO MAINTAIN EXISTING SYSTEMS IN SERVICE DURING CONSTRUCTION. MAINTAIN ACCESS TO EXISTING MECHANICAL INSTALLATIONS THAT REMAIN ACTIVE.
8. OBTAIN PERMISSION FROM OWNER BEFORE SHUTTING DOWN ANY SYSTEM FOR ANY REASON. MAINTAIN SERVICE TO ALL COMPONENTS THAT ARE TO REMAIN UNTIL NEW SYSTEMS ARE INSTALLED.
9. MAINTAIN EXISTING SYSTEM IN SERVICE UNTIL NEW SYSTEM IS COMPLETE AND READY FOR TIE IN AND SWITCHOVER. DRAIN SYSTEM ONLY TO MAKE SWITCHOVERS AND CONNECTIONS. OBTAIN PERMISSION FROM OWNER BEFORE PARTIALLY OR COMPLETELY DRAINING SYSTEM. MAKE CHANGEOVER TO NEW SYSTEMS WITH MINIMUM OUTAGE.
10. DISCONNECT AND REMOVE MECHANICAL DEVICES AND EQUIPMENT SERVING EQUIPMENT THAT HAS BEEN REMOVED.
11. EXISTING WINDOW AIR CONDITIONING UNITS REMOVED SHALL BE RETURNED TO THE OWNER.

MECHANICAL PHASING NOTES:

THESE NOTES APPLY TO ALL MECHANICAL SHEETS AND TRADES, INCLUDING BUT NOT LIMITED TO, PLUMBING, VENTILATION, PIPING AND TEMPERATURE CONTROL.

1. REFER TO ARCHITECTURAL DRAWINGS FOR GENERAL DESCRIPTION OF PHASES. REFER TO CONSTRUCTION MANAGER'S INSTRUCTIONS FOR MORE DETAILS AND PHASING SCHEDULES AND FOR CONCURRENT WORK. MECHANICAL, ELECTRICAL AND TECHNOLOGY DRAWINGS DEPICT THE INTENT OF THE FINAL DESIGN. THE MECHANICAL, ELECTRICAL, AND TECHNOLOGY DRAWINGS DO NOT DEPICT THE MEANS AND METHODS TO MEET THE REQUIREMENTS OF THE PHASING CRITERIA.
2. REVIEW PROJECT PHASING PLANS TO COORDINATE DEMOLITION WORK, OUTAGES, ETC. WITH AFFECTED ADJACENT AREAS.
3. PROVIDE TEMPORARY DUCTWORK, PIPING, SHUTOFF VALVES, ZONE VALVES, ZONE ALARMS, ETC. AS NEEDED TO MAINTAIN SERVICE TO ALL AREAS DURING ALL PHASES OF PROJECT.
4. INSTALL TEMPORARY DUCTWORK, PIPING, SHUTOFF VALVES, ETC. AS NECESSARY TO KEEP ALL OCCUPIED SPACES OPERATIONAL THROUGHOUT ALL PHASES OF THE PROJECT
5. PHASE DEMOLITION WORK TO MINIMIZE DOWNTIME.
6. EXISTING STEAM HEATING SYSTEM MUST BE LEFT OPERATIONAL TO PROVIDE BUILDING HEAT TO THE BUILDING THROUGH WINTER OF 2022/2023. HEATING AND CHILLED WATER SYSTEMS TO BE INSTALLED TO THE MAXIMUM EXTENT POSSIBLE, AND AT A MINIMUM TO THE EXTENT THAT THE REMAINING WORK TO REMOVE THE EXISTING STEAM HEATING SYSTEM AND INSTALL THE REMAINDER OF THE HEATING AND CHILLED WATER SYSTEMS CAN BE COMPLETED BETWEEN THE END OF WINTER 2022/2023 AND THE START OF WINTER 2023/2024. SYSTEMS SHALL BE OPERATIONAL AT THAT TIME.

PIPING GENERAL NOTES:

1. THE SIZE OF BRANCH PIPING TO TERMINAL DEVICES AND COILS SHALL BE 3/4" UNLESS NOTED OTHERWISE.
2. PIPE DRAIN LINES FROM EQUIPMENT TO NEAREST FLOOR DRAIN.
3. ALL PIPING EXPOSED TO VIEW, INTERIOR OR EXTERIOR, SHALL BE PAINTED. COLOR TO MATCH SURROUNDING WALLS OR CEILING, UNLESS NOTED OTHERWISE. COLOR TO BE APPROVED BY THE OWNER/ARCHITECT. REFER TO SPECIFICATIONS.
4. WHERE FLOOR MOUNTED FAN COILS ARE TO BE PROVIDED, UNLESS SHOWN OR NOTED OTHERWISE, PIPING SERING FAN COIL UNITS IS ROUTED VERTICALLY UP AND DOWN THE INTERIOR FACE OF THE EXTERIOR WALLS OF THE BUILDING. ALL EXPOSED PIPING IS TO BE ENCLOSED WITHIN NEW CHASES. COORDINATE WITH THE ARCHITECTURAL PLANS AND GENERAL CONTRACTOR. HORIZONTAL PIPING BETWEEN THE VERTICAL PIPE CHASE AND THE FAN COIL UNIT VALVE/PIPE CONNECTIONS ENCLOSURE SHALL BE HIDDEN BEHIND A CONTRACTOR PROVIDED FIELD FABRICATED AND PAINTED SHEET METAL ENCLOSURE. COLOR TO MATCH SURROUNDING WALLS AND BE APPROVED BY THE OWNER/ARCHITECT.

VENTILATION GENERAL NOTES:

1. UNLESS NOTED OTHERWISE, THE SIZE OF EACH BRANCH DUCT TO A TERMINAL AIR BOX (TAB) SHALL MATCH THE INLET SIZE UNLESS THE BRANCH IS GREATER THAN 6FEET IN LENGTH, IN WHICH CASE THE BRANCH DUCT SHALL BE SIZED AT A PRESSURE DROP OF 0.07"W.C. PER 100' OF DUCTWORK.
2. UNLESS NOTED OTHERWISE, THE SIZE OF EACH BRANCH DUCT TO AN AIR TERMINAL SHALL MATCH THE INLET SIZE.
3. ALIGN TEMPERATURE SENSORS WITH LIGHT SWITCHES AND WHEN IN CLOSE PROXIMITY TO EACH OTHER.
4. PROVIDE ACCESS DOORS AT ALL DUCT MOUNTED EQUIPMENT.
5. EXISTING AIR INLET AND OUTLET CFM SHOWN ON DRAWINGS ARE FROM EXISTING DRAWINGS, AND ARE FOR REFERENCE ONLY. CONTRACTOR SHALL USE PRE-BALANCE VALUES, AND NOT EXISTING CFM SHOWN ON DRAWINGS.
6. CONTRACTOR MAY REUSE PORTIONS OF EXISTING DUCT PROVIDED SIZES AND PRESSURE CLASSES ARE CORRECT. DUCT IS THOROUGHLY CLEANED AND FREE OF DEFECTS, AND ALL TRANSVERSE JOINTS, LONGITUDINAL SEAMS, AND DUCT WALL PENETRATIONS ARE SEALED AS SPECIFIED FOR NEW DUCTWORK.
7. ALL DUCTWORK EXPOSED TO VIEW (INSIDE AND OUTSIDE OF DUCTWORK) SHALL BE DOUBLE WALL (WHERE INSULATED) AND BE PAINTED TO MATCH THE SURROUNDING WALLS OR CEILING. COLOR TO BE APPROVED BY THE OWNER/ARCHITECT. REFER TO SPECIFICATIONS.

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KEY PLAN

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REVISIONS

No.	Date	Revision / Issue

SHEET INFORMATION

Issue	**BID DOCUMENTS**
Date	**JANUARY 28, 2022**
Job Number	**21002885.04**
Drawn	**BRAGAR**
Checked	**ALIHAM**
Approved	**BRAGAR**

SHEET TITLE

MECHANICAL COVERSHEET

SCALE

Scale: **As indicated**

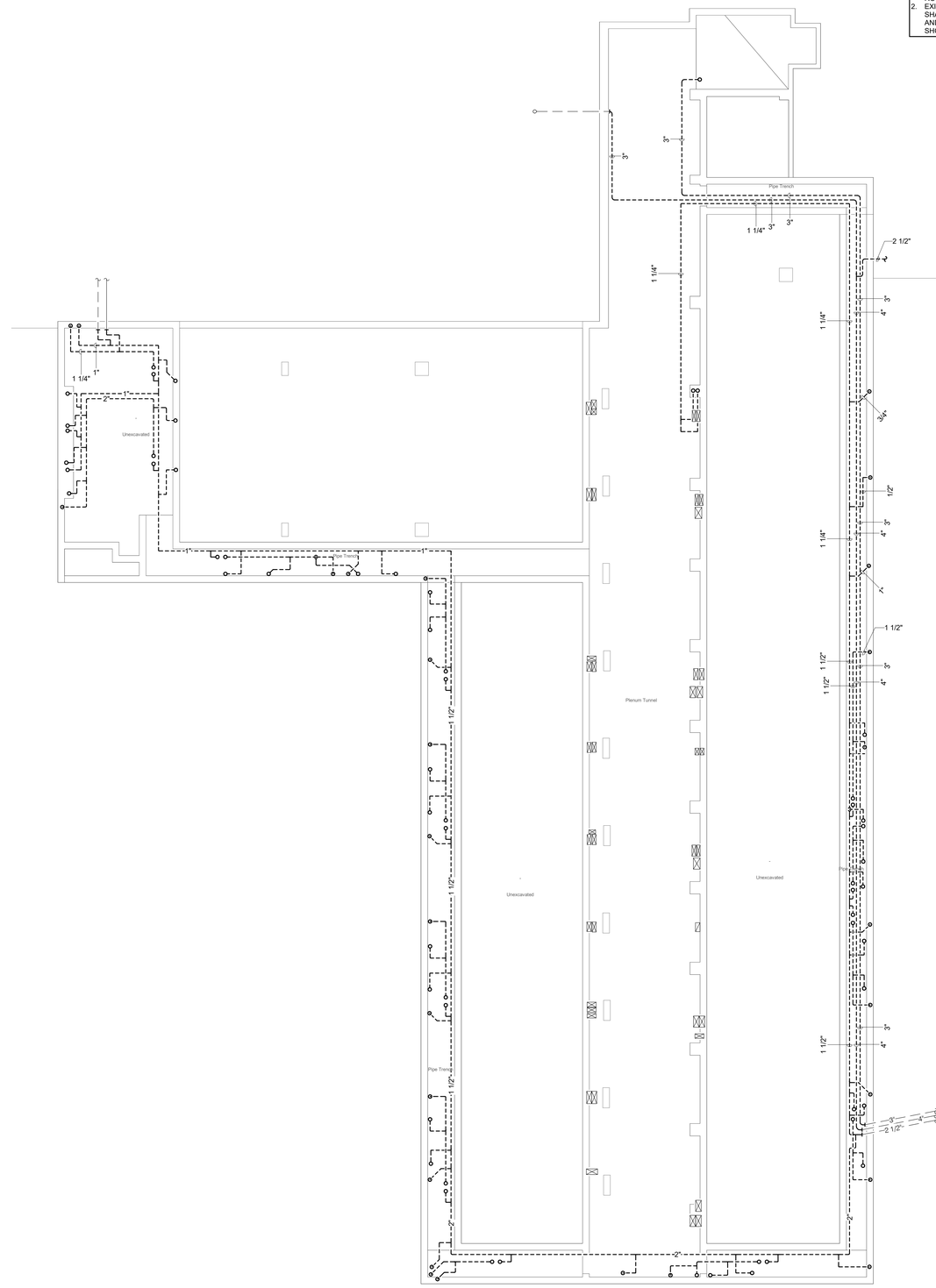
SHEET NUMBER

M000

21002885.04 1/28/2022 1:05:07 PM ESSER HVAC Improvements - East High School

GENERAL SHEET NOTES:

1. REMOVE EXISTING STEAM AND STEAM CONDENSATE PIPING, ACCESSORIES AND SUPPORTS IN THE EXISTING TUNNELS AND PIPE TRENCHES BETWEEN THE POINT WHERE PIPING IS ENCASED IN EXISTING TO REMAIN WALLS/WHERE IT PASSES THROUGH BELOW GRADE WALLS AND THE EXISTING TO REMAIN PIPING MAINS/MANIFOLDS IN THE BOILER ROOM.
2. EXISTING VERTICAL DUTWORK IN TUNNELS SHALL REMAIN. REMOVE EXISTING DAMPERS AND PREPARE FOR NEW CONNECTONS AS SHOWN IN THE NEW WORK PLANS.



1 SUBFLOOR DEMOLITION - MECHANICAL - AREA A

1/8" = 1'-0"

NORTH

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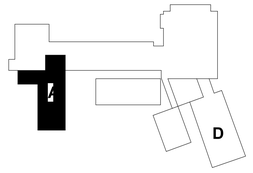
KEY PLAN



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Checked	**ALIHAM**
Approved	**BRAGAR**

SHEET TITLE

SUBFLOOR DEMOLITION - MECHANICAL - AREA A

SCALE

Scale: **As indicated**

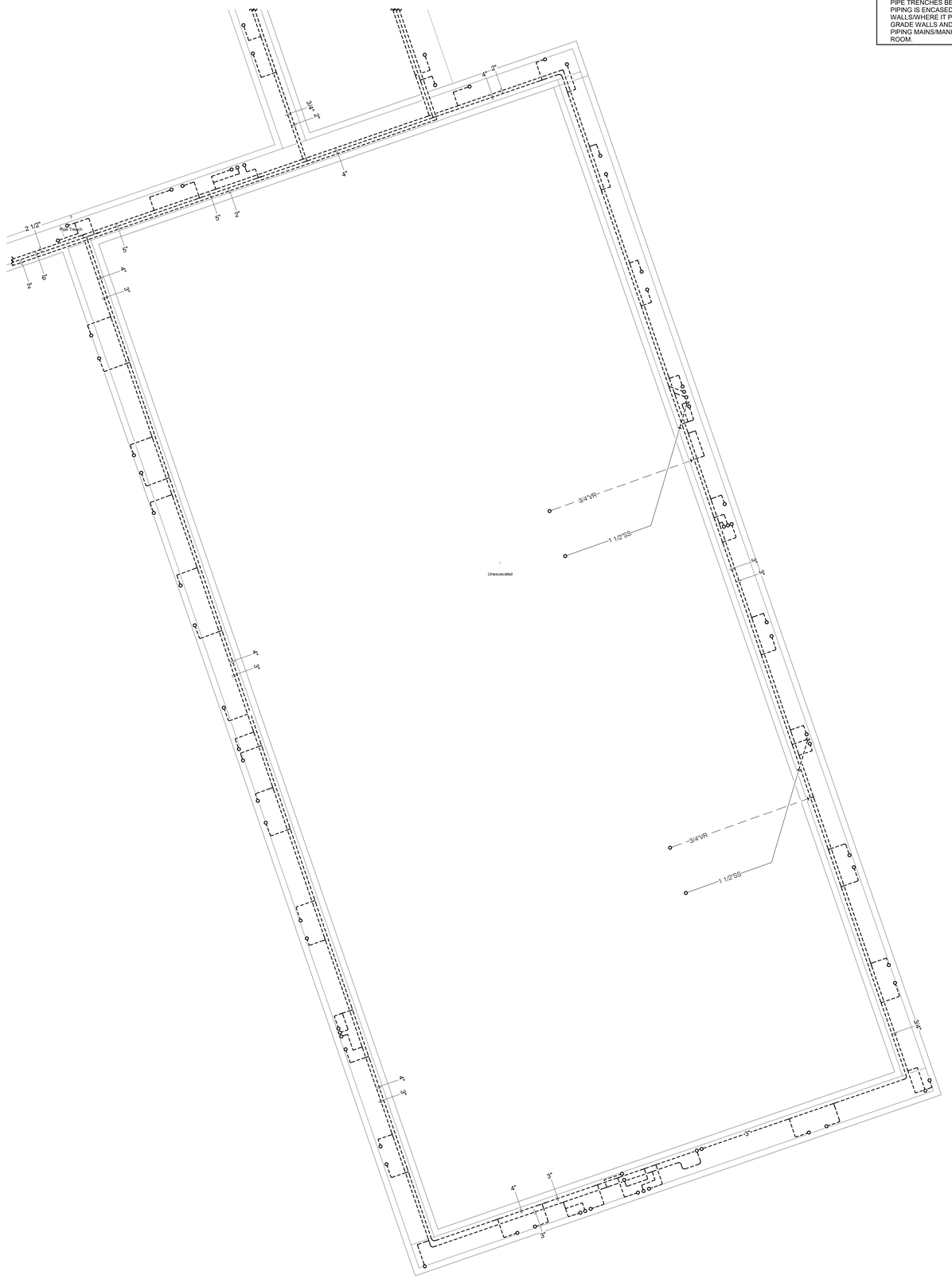
SHEET NUMBER

M000A

21002885.04 1/28/2022 1:05:14 PM ESSER HVAC Improvements - East High School

GENERAL SHEET NOTES:

1. REMOVE EXISTING STEAM AND STEAM CONDENSATE PIPING, ACCESSORIES AND SUPPORTS IN THE EXISTING TUNNELS AND PIPE TRENCHES BETWEEN THE POINT WHERE PIPING IS ENCASED IN EXISTING TO REMAIN WALLS/WHERE IT PASSES THROUGH BELOW GRADE WALLS AND THE EXISTING TO REMAIN PIPING MAINS/MANIFOLDS IN THE BOILER ROOM.



1 **SUBFLOOR DEMOLITION - MECHANICAL - AREA D**
1/8" = 1'-0"

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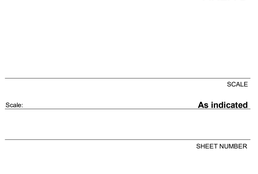
KEY PLAN



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Approved	**BRAGAR**

SHEET TITLE

SUBFLOOR DEMOLITION - MECHANICAL - AREA D

SCALE

Scale: **As indicated**

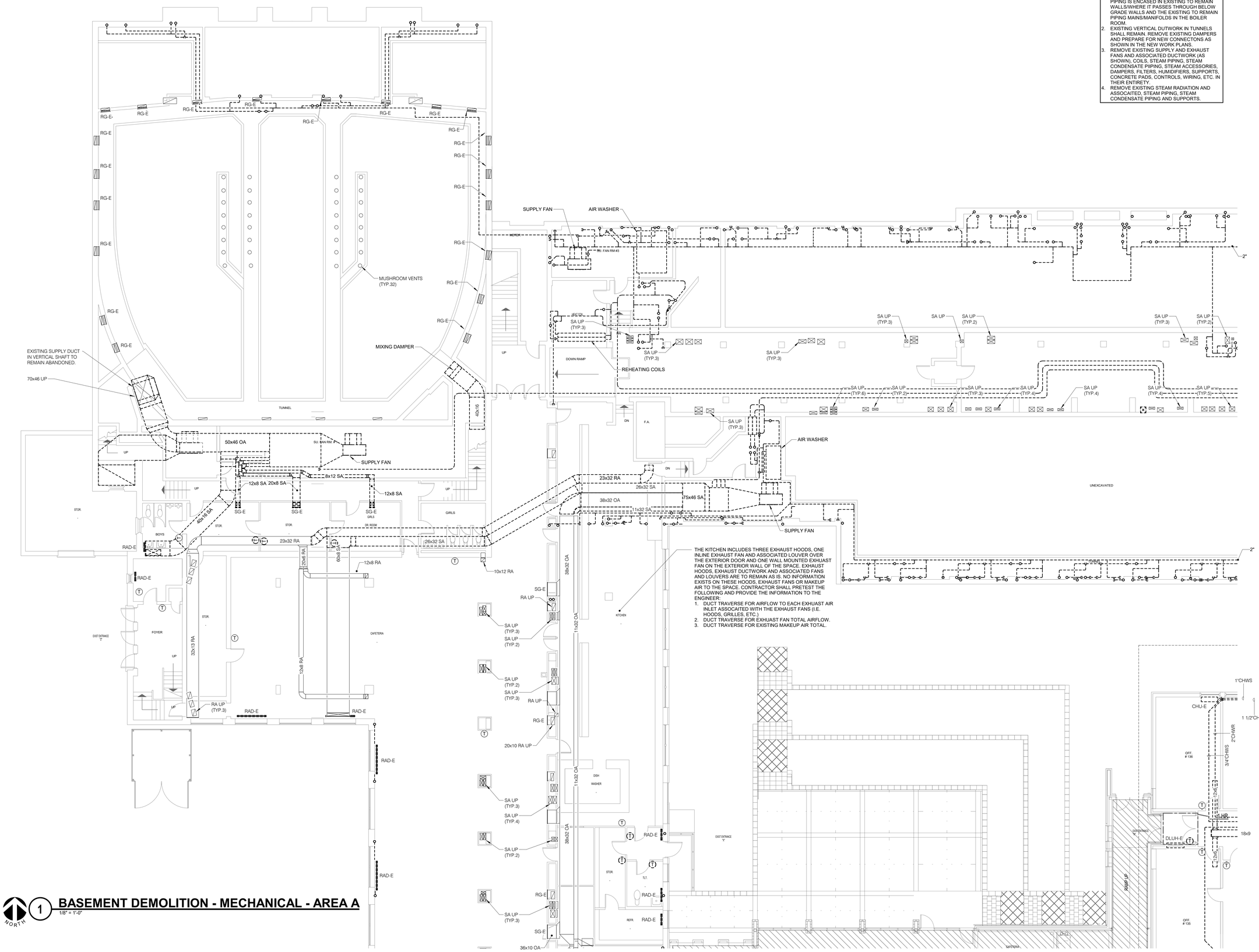
SHEET NUMBER

M000D

21002885.04 1/28/2022 1:05:19 PM ESSER HVAC Improvements - East High School

GENERAL SHEET NOTES:

1. REMOVE EXISTING STEAM AND STEAM CONDENSATE PIPING, ACCESSORIES AND SUPPORTS IN THE EXISTING TUNNELS AND PIPE TRENCHES BETWEEN THE POINT WHERE PIPING IS ENCASED IN EXISTING TO REMAIN WALLS/WHERE IT PASSES THROUGH BELOW GRADE WALLS AND THE EXISTING TO REMAIN PIPING MAINS/MANIFOLDS IN THE BOILER ROOM.
2. EXISTING VERTICAL DUTWORK IN TUNNELS SHALL REMAIN. REMOVE EXISTING DAMPERS AND PREPARE FOR NEW CONNECTONS AS SHOWN IN THE NEW WORK PLANS.
3. REMOVE EXISTING SUPPLY AND EXHAUST FANS AND ASSOCIATED DUCTWORK (AS SHOWN), COILS, STEAM PIPING, STEAM CONDENSATE PIIPING, STEAM ACCESSORIES, DAMPERS, FILTERS, HUMIDIFIERS, SUPPORTS, CONCRETE PADS, CONTROLS, WIRING, ETC. IN THEIR ENTIRETY.
4. REMOVE EXISTING STEAM RADIATION AND ASSOCIATED, STEAM PIPING, STEAM CONDENSATE PIPING AND SUPPORTS.



1 BASEMENT DEMOLITION - MECHANICAL - AREA A

1/8" = 1'-0"

NORTH

21002885.04 1/28/2022 1:05:32 PM ESSER HVAC Improvements - East High School

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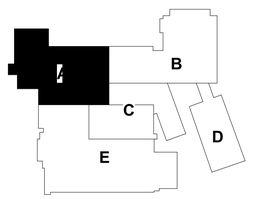
KEY PLAN



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REVISIONS

No.	Date	Revision / Issue

SHEET INFORMATION

Issue	**BID DOCUMENTS**
Date	**JANUARY 28, 2022**
Job Number	**21002885.04**
Drawn	**BRAGAR**
Checked	**ALIHAM**
Approved	**BRAGAR**

SHEET TITLE

BASEMENT DEMOLITION - MECHANICAL - AREA A

SCALE

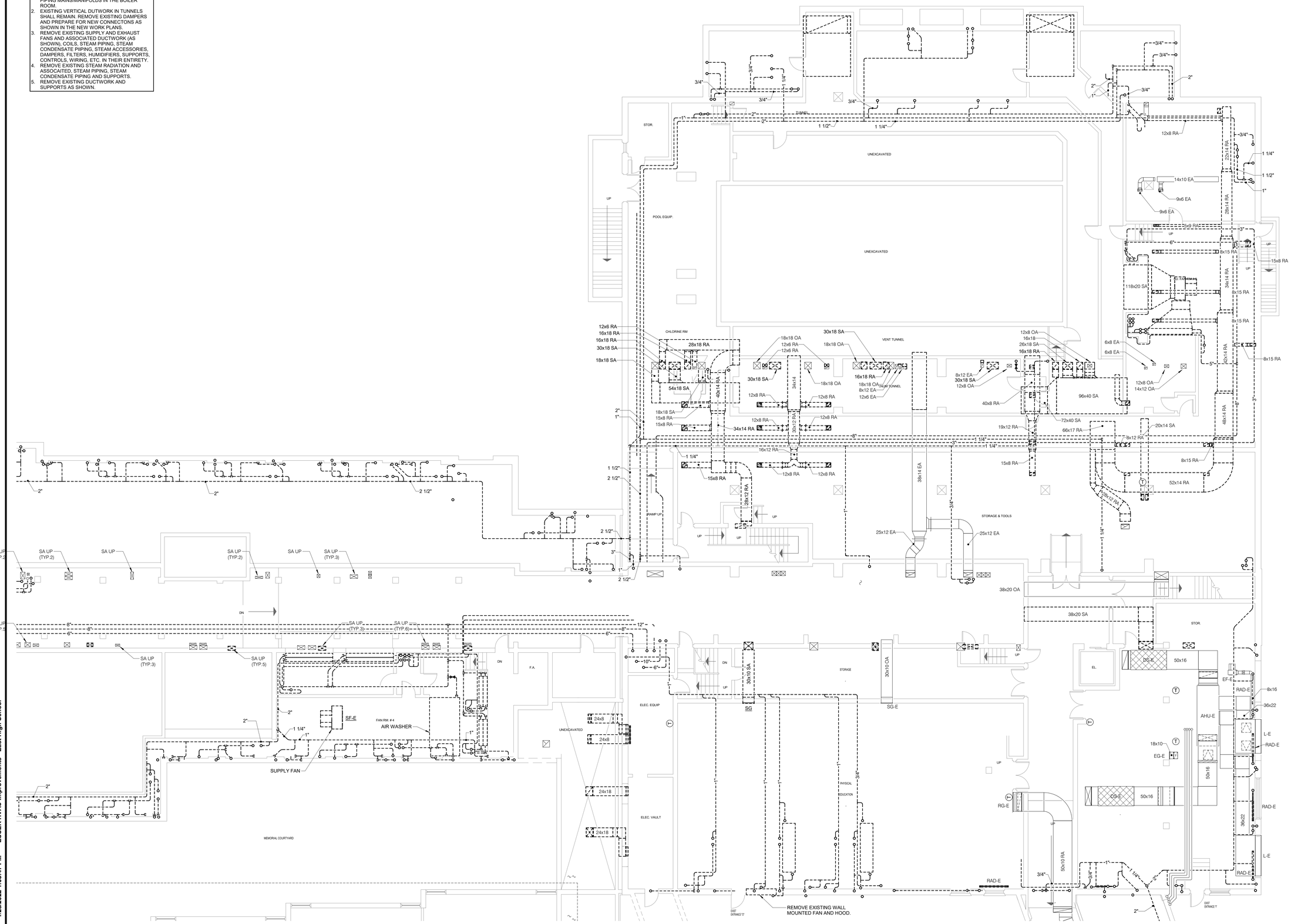
Scale: **As indicated**

SHEET NUMBER

M100A

GENERAL SHEET NOTES:

1. REMOVE EXISTING STEAM AND STEAM CONDENSATE PIPING, ACCESSORIES AND SUPPORTS IN THE EXISTING TUNNELS AND PIPE TRENCHES BETWEEN THE POINT WHERE PIPING IS ENCASED IN EXISTING TO REMAIN WALLS/WHERE IT PASSES THROUGH BELOW GRADE WALLS AND THE EXISTING TO REMAIN PIPING MAINS/MANIFOLDS IN THE BOILER ROOM.
2. EXISTING VERTICAL DUTWORK IN TUNNELS SHALL REMAIN. REMOVE EXISTING DAMPERS AND PREPARE FOR NEW CONNECTONS AS SHOWN IN THE NEW WORK PLANS.
3. REMOVE EXISTING SUPPLY AND EXHAUST FANS AND ASSOCIATED DUCTWORK (AS SHOWN), COILS, STEAM PIPING, STEAM CONDENSATE PIPING, STEAM ACCESSORIES, DAMPERS, FILTERS, HUMIDIFIERS, SUPPORTS, CONTROLS, WIRING, ETC. IN THEIR ENTIRETY.
4. REMOVE EXISTING STEAM RADIATION AND ASSOCAITED, STEAM PIPING, STEAM CONDENSATE PIPING AND SUPPORTS.
5. REMOVE EXISTING DUCTWORK AND SUPPORTS AS SHOWN.



NORTH

1 BASEMENT DEMOLITION - MECHANICAL - AREA B

1/8" = 1'-0"

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Checked	ALIHAM
Approved	BRAGAR

SHEET TITLE

BASEMENT DEMOLITION - MECHANICAL - AREA B

SCALE

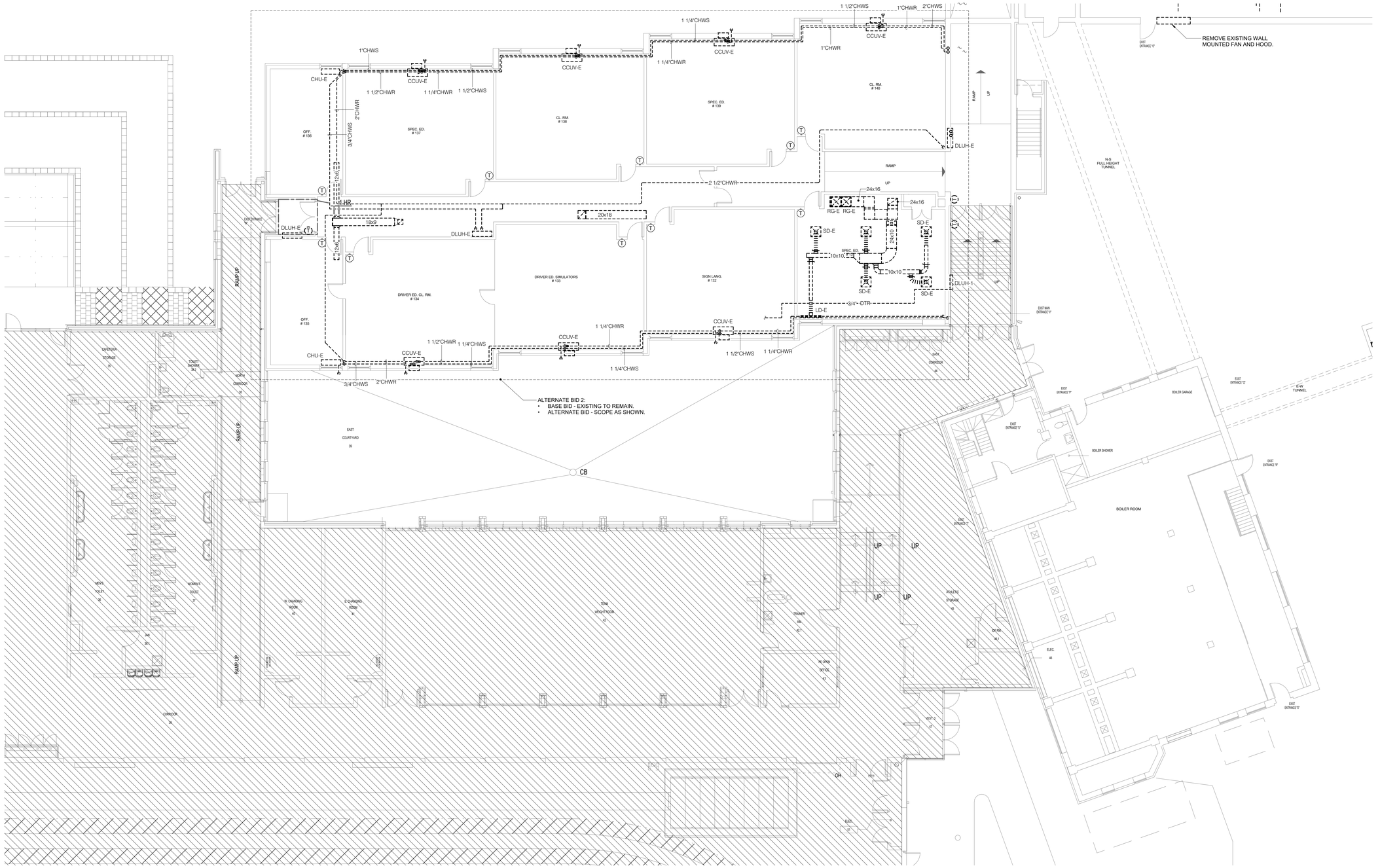
Scale: As indicated

SHEET NUMBER

M100B

GENERAL SHEET NOTES:

1. REMOVE EXISTING UNIT VENTILATORS AND ASSOCIATED LOUVER, WALL SLEEVE, CONTROLS, WIRING AND CHWS/CHWR PIPING BACK TO THE MECHANICAL ROOM BELOW THE CORRIDOR BETWEEN BUILDING B AND THIS WING.
2. REMOVE EXISTING DUCTWORK AND ASSOCIATED GRILLES, DIFFUSERS AND SUPPORTS AS SHOWN.



1 BASEMENT DEMOLITION - MECHANICAL - AREA C

1/8" = 1'-0"

NORTH

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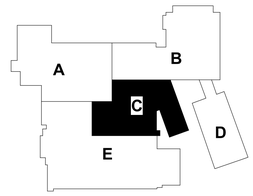

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SHEET TITLE

BASEMENT DEMOLITION - MECHANICAL - AREA C

SCALE

Scale: As indicated

SHEET NUMBER

M100C

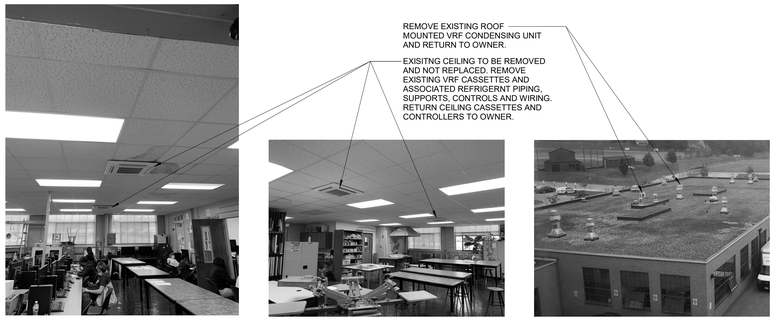
21002885.04 1/28/2022 1:05:52 PM ESSER HVAC Improvements - East High School

REMOVE ALL EXISTING ABANDONDED DUCTWORK AND ASSOCAITED SUPPORTS, IN LINE EXHAUST FAN AND ROOF MOUNTED EXHAUST FAN.

2 KILN ROOM DEMOLITION SCOPE
NO SCALE

REMOVE EXISTING ROOF MOUNTED VRF CONDENSING UNIT AND RETURN TO OWNER.

EXISITNG CEILING TO BE REMOVED AND NOT REPLACED. REMOVE EXISTING VRF CASSETTES AND ASSOCIATED REFRIGERNT PIPING, SUPPORTS, CONTROLS AND WIRING. RETURN CEILING CASSETTES AND CONTROLLERS TO OWNER.



3 ART ROOM DEMOLITION SCOPE
NO SCALE

1 BASEMENT DEMOLITION - MECHANICAL - AREA D
1/8" = 1'-0"

GENERAL SHEET NOTES:

1. REMOVE EXISTING STEAM RADIATION AND ASSOCAITED, STEAM PIPING, STEAM CONDENSATE PIPING AND SUPPORTS. PIPING ENCLOSED IN EXTERIOR WALLS OR INTERIOR CHASES NOT BEING REMOVED CAN REMAIN ABANDONED. WHERE PIPING IS ABANDONDED REMOVE AS MUCH AS POSSIBLE AND WHERE VISIBLE TO FINISHED SPACE IT SHALL BE REMOVED AS NECESSARY TO ALLOW THE PENETRATION TO BE FINISHED SO THE PIPING IS NOT VISIBLE.
2. REMOVE EXISTING UNIT HEATERS AND ASSOCAITED STEAM PIPING, STEAM CONDENSATE PIPING, CONTROLS, CONTROL WIRRING AND SUPPORTS AND CONTROLS. PIPING ENCLOSED IN EXTERIOR WALLS OR INTERIOR CHASES NOT BEING REMOVED CAN REMAIN ABANDONED. WHERE PIPING IS ABANDONDED REMOVE AS MUCH AS POSSIBLE AND WHERE VISIBLE TO FINISHED SPACE IT SHALL BE REMOVED AS NECESSARY TO ALLOW THE PENETRATION TO BE FINISHED SO THE PIPING IS NOT VISIBLE.

KEYNOTES: (#)

1. REFER TO DETAIL 2 ON THIS SHEET FOR ADDITIONAL DEMOLITION SCOPE WITHIN THIS ROOM.
2. REFER TO DETAIL 3 ON THIS SHEET FOR ADDITIONAL DEMOLITION SCOPE WITHIN THIS ROOM.

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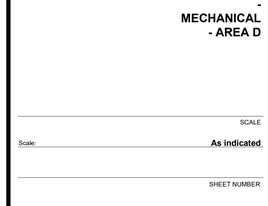
KEY PLAN



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Checked	**ALIHAM**
Approved	**BRAGAR**

SHEET TITLE

BASEMENT DEMOLITION - MECHANICAL - AREA D

SCALE

Scale: **As indicated**

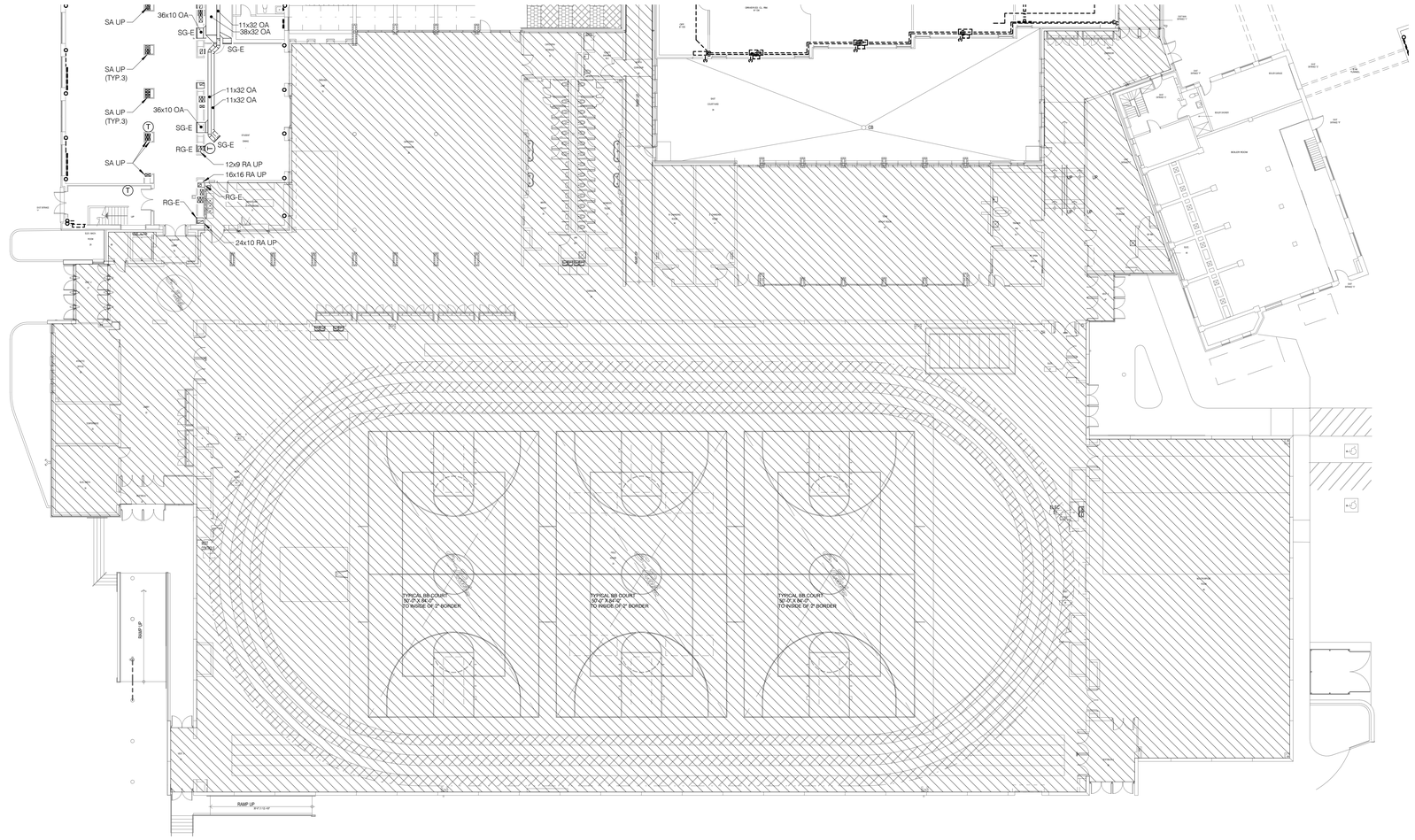
SHEET NUMBER

M100D

21002885.04 1/28/2022 1:05:57 PM ESSER HVAC Improvements - East High School

GENERAL SHEET NOTES:

1. REMOVE EXISTING STEAM RADIATION AND ASSOCAITED, STEAM PIPING, STEAM CONDENSATE PIPING AND SUPPORTS. PIPING ENCLOSED IN EXTERIOR WALLS OR INTERIOR CHASES NOT BEING REMOVED CAN REMAIN ABANDONED. WHERE PIPING IS ABANDONDED REMOVE AS MUCH AS POSSIBLE AND WHERE VISIBLE TO FINISHED SPACE IT SHALL BE REMOVED AS NECESSARY TO ALLOW THE PENETRATION TO BE FINISHED SO THE PIPING IS NOT VISIBLE.



NORTH

1 BASEMENT DEMOLITION - MECHANICAL - AREA E

1/16" = 1'-0"

21002885.04 1/28/2022 1:06:03 PM ESSER HVAC Improvements - East High School

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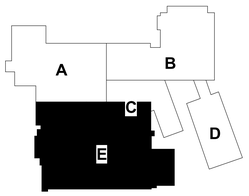
KEY PLAN



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Approved	**BRAGAR**

SHEET TITLE

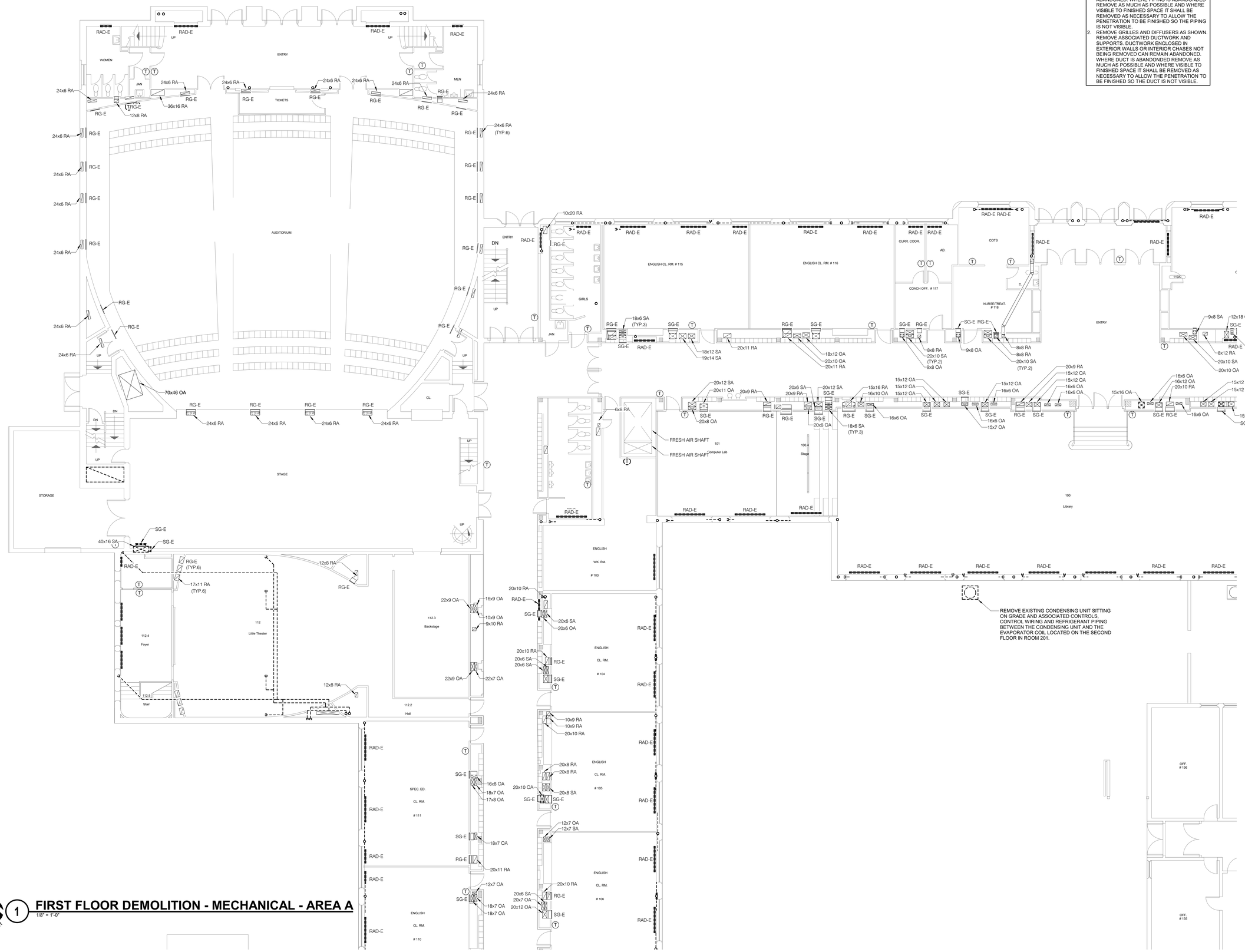
BASEMENT DEMOLITION - MECHANICAL - AREA E

SCALE

Scale: **As indicated**

SHEET NUMBER

M100E



GENERAL SHEET NOTES:

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2. REMOVE GRILLES AND DIFFUSERS AS SHOWN. REMOVE ASSOCIATED DUCTWORK AND SUPPORTS. DUCTWORK ENCLOSED IN EXTERIOR WALLS OR INTERIOR CHASES NOT BEING REMOVED CAN REMAIN ABANDONED. WHERE DUCT IS ABANDONDED REMOVE AS MUCH AS POSSIBLE AND WHERE VISIBLE TO FINISHED SPACE IT SHALL BE REMOVED AS NECESSARY TO ALLOW THE PENETRATION TO BE FINISHED SO THE DUCT IS NOT VISIBLE.

1 FIRST FLOOR DEMOLITION - MECHANICAL - AREA A

1/8" = 1'-0"

NORTH

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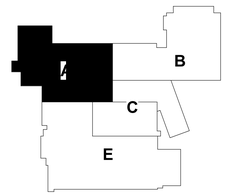
KEY PLAN



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Checked	**ALIHAM**
Approved	**BRAGAR**

SHEET TITLE

FIRST FLOOR DEMOLITION - MECHANICAL - AREA A

SCALE

Scale: **As indicated**

SHEET NUMBER

M101A

21002885.04 1/28/2022 1:06:14 PM ESSER HVAC Improvements - East High School

GENERAL SHEET NOTES:

1. REMOVE EXISTING STEAM RADIATION AND ASSOCAITED, STEAM PIPING, STEAM CONDENSATE PIPING AND SUPPORTS.PIPING ENCLOSED IN EXTERIOR WALLS OR INTERIOR CHASES NOT BEING REMOVED CAN REMAIN ABANDONED. WHERE PIPING IS ABANDONDED REMOVE AS MUCH AS POSSIBLE AND WHERE VISIBLE TO FINISHED SPACE IT SHALL BE REMOVED AS NECESSARY TO ALLOW THE PENETRATION TO BE FINISHED SO THE PIPING IS NOT VISIBLE.
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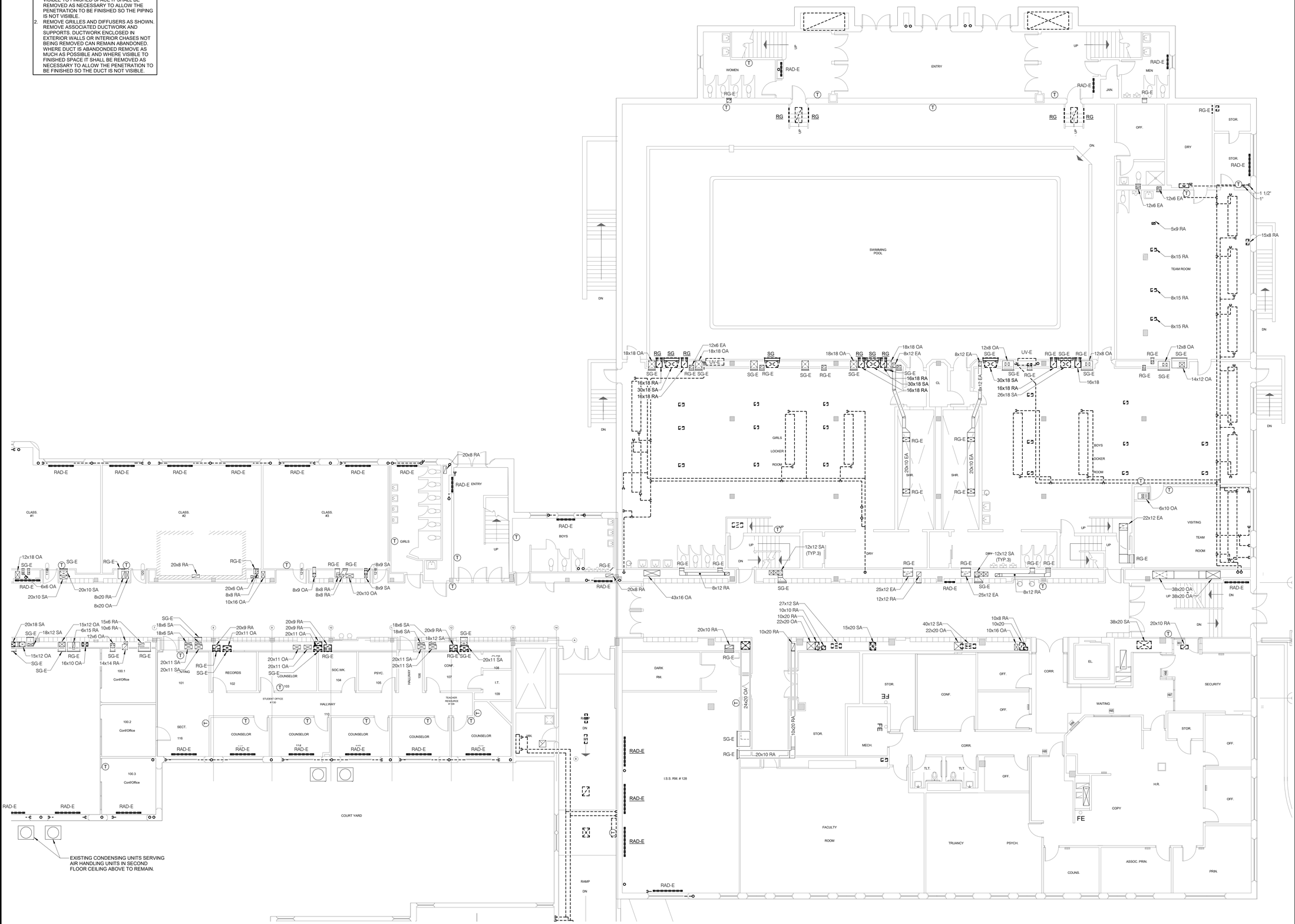

1 FIRST FLOOR DEMOLITION - MECHANICAL - AREA B

1/8" = 1'-0"

NORTH

21002885.04 1/28/2022 1:06:26 PM ESSER HVAC Improvements - East High School

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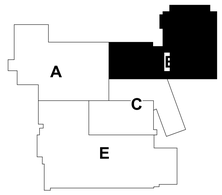

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SHEET TITLE

FIRST FLOOR DEMOLITION - MECHANICAL - AREA B

SCALE

Scale: As indicated

SHEET NUMBER

M101B

GENERAL SHEET NOTES:

1. REMOVE EXISTING STEAM RADIATION AND ASSOCAITED, STEAM PIPING, STEAM CONDENSATE PIPING AND SUPPORTS PIPING ENCLOSED IN EXTERIOR WALLS OR INTERIOR CHASES NOT BEING REMOVED CAN REMAIN ABANDONED. WHERE PIPING IS ABANDONDED REMOVE AS MUCH AS POSSIBLE AND WHERE VISIBLE TO FINISHED SPACE IT SHALL BE REMOVED AS NECESSARY TO ALLOW THE PENETRATION TO BE FINISHED SO THE PIPING IS NOT VISIBLE.
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1 FIRST FLOOR DEMOLITION - MECHANICAL - AREA E

1/16" = 1'-0"

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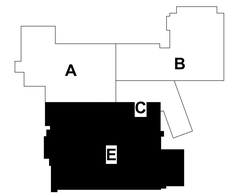

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SHEET TITLE

FIRST FLOOR DEMOLITION - MECHANICAL - AREA E

SCALE

Scale: **As indicated**

SHEET NUMBER

M101E

GENERAL SHEET NOTES:

1. REMOVE EXISTING STEAM RADIATION AND ASSOCAITED, STEAM PIPING, STEAM CONDENSATE PIPING AND SUPPORTS PIPING ENCLOSED IN EXTERIOR WALLS OR INTERIOR CHASES NOT BEING REMOVED CAN REMAIN ABANDONED. WHERE PIPING IS ABANDONED REMOVE AS MUCH AS POSSIBLE AND WHERE VISIBLE TO FINISHED SPACE IT SHALL BE REMOVED AS NECESSARY TO ALLOW THE PENETRATION TO BE FINISHED SO THE PIPING IS NOT VISIBLE.
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REMOVE EXISTING AIR CONDITIONING UNIT AND ASSOCIATED CONTROLS, CONTROL WIRING AND REFRIGERANT PIPING BETWEEN THE CONDENSING UNIT ON GRADE AND THE EVAPORATOR COIL.

SECOND FLOOR DEMOLITION - MECHANICAL - AREA A

1/8" = 1'-0"

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REVISIONS

No.	Date	Revision / Issue

SHEET INFORMATION

Issue	**BID DOCUMENTS**
Date	**JANUARY 28, 2022**
Job Number	**21002885.04**
Drawn	**BRAGAR**
Checked	**ALIHAM**
Approved	**BRAGAR**

SHEET TITLE

SECOND FLOOR DEMOLITION - MECHANICAL - AREA A

SCALE

Scale: **As indicated**

SHEET NUMBER

M102A

21002885.04 1/28/2022 1:06:43 PM ESSER HVAC Improvements - East High School

GENERAL SHEET NOTES:

1. REMOVE EXISTING STEAM RADIATION AND ASSOCAITED, STEAM PIPING, STEAM CONDENSATE PIPING AND SUPPORTS.PIPING ENCLOSED IN EXTERIOR WALLS OR INTERIOR CHASES NOT BEING REMOVED CAN REMAIN ABANDONED. WHERE PIPING IS ABANDONDED REMOVE AS MUCH AS POSSIBLE AND WHERE VISIBLE TO FINISHED SPACE IT SHALL BE REMOVED AS NECESSARY TO ALLOW THE PENETRATION TO BE FINISHED SO THE PIPING IS NOT VISIBLE.
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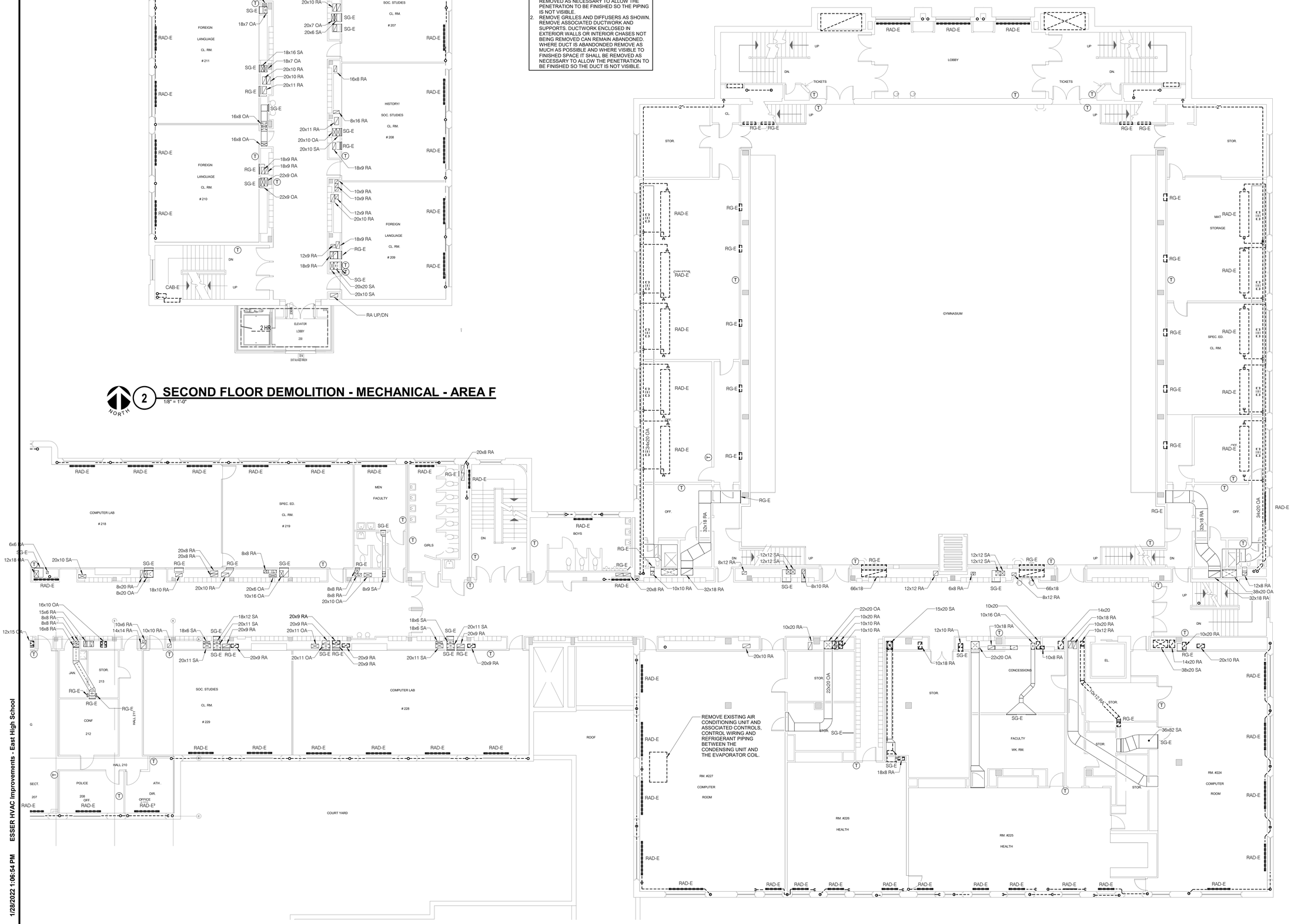
2 SECOND FLOOR DEMOLITION - MECHANICAL - AREA F

1/8" = 1'-0"



1 SECOND FLOOR DEMOLITION - MECHANICAL - AREA B

1/8" = 1'-0"

21002885.04 1/28/2022 1:06:54 PM ESSER HVAC Improvements - East High School

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Checked	**ALIHAM**
Approved	**BRAGAR**

SHEET TITLE

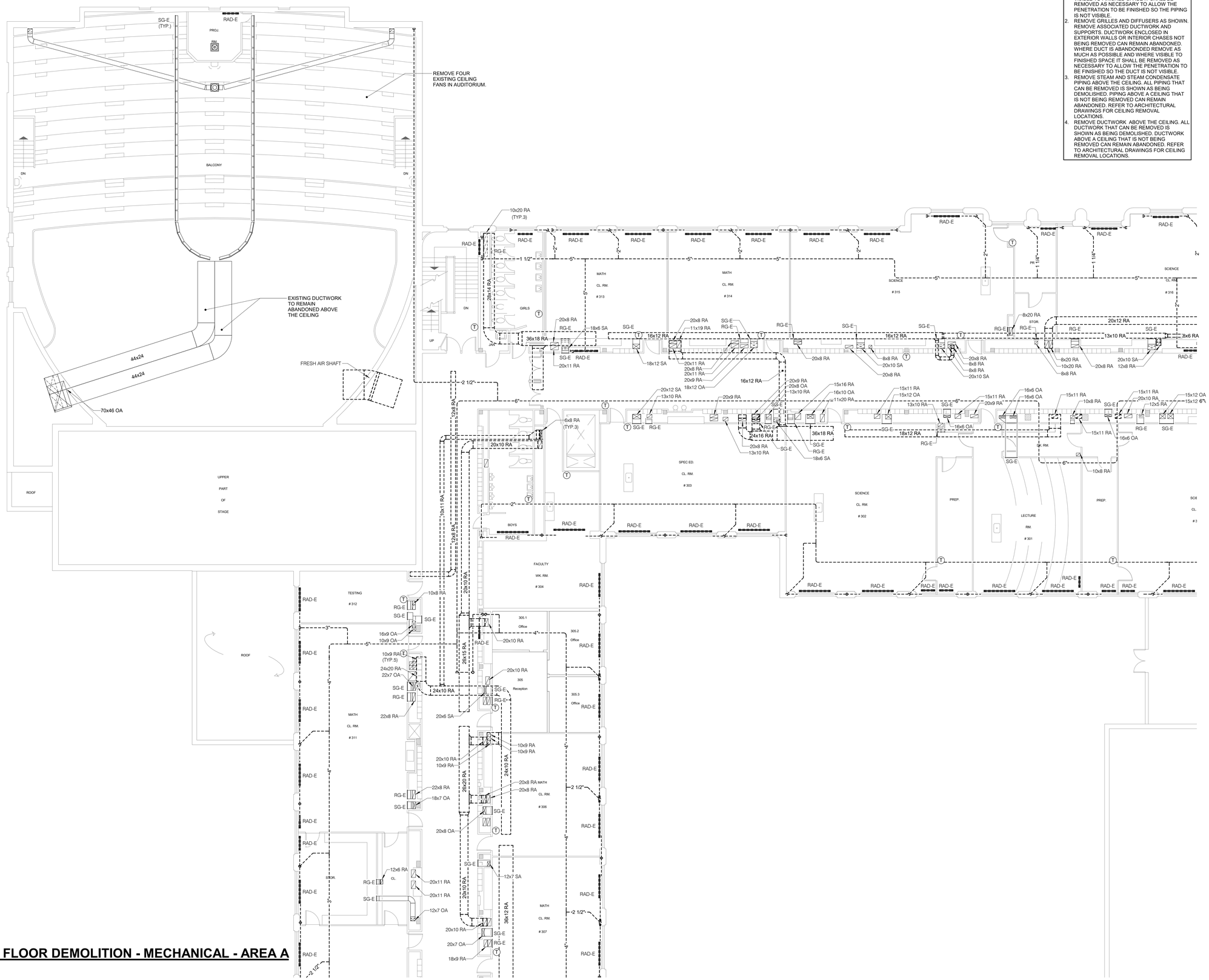
SECOND FLOOR DEMOLITION - MECHANICAL - AREA B & F

SCALE

Scale: **As indicated**

SHEET NUMBER

M102B



1 THIRD FLOOR DEMOLITION - MECHANICAL - AREA A

1/8" = 1'-0"

NORTH

GENERAL SHEET NOTES:

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4. REMOVE DUCTWORK ABOVE THE CEILING. ALL DUCTWORK THAT CAN BE REMOVED IS SHOWN AS BEING DEMOLISHED. DUCTWORK ABOVE A CEILING THAT IS NOT BEING REMOVED CAN REMAIN ABANDONED. REFER TO ARCHITECTURAL DRAWINGS FOR CEILING REMOVAL LOCATIONS.

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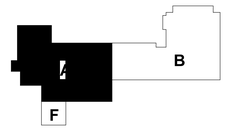
KEY PLAN



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Approved	**BRAGAR**

SHEET TITLE

THIRD FLOOR DEMOLITION - MECHANICAL - AREA A

SCALE

Scale: **As indicated**

SHEET NUMBER

M103A

21002885.04 1/28/2022 1:07:03 PM ESSER HVAC Improvements - East High School

GENERAL SHEET NOTES:

1. REMOVE EXISTING STEAM RADIATION AND ASSOCAITED, STEAM PIPING, STEAM CONDENSATE PIPING AND SUPPORTS.PIPING ENCLOSED IN EXTERIOR WALLS OR INTERIOR CHASES NOT BEING REMOVED CAN REMAIN ABANDONED. WHERE PIPING IS ABANDONDED REMOVE AS MUCH AS POSSIBLE AND WHERE VISIBLE TO FINISHED SPACE IT SHALL BE REMOVED AS NECESSARY TO ALLOW THE PENETRATION TO BE FINISHED SO THE PIPING IS NOT VISIBLE.
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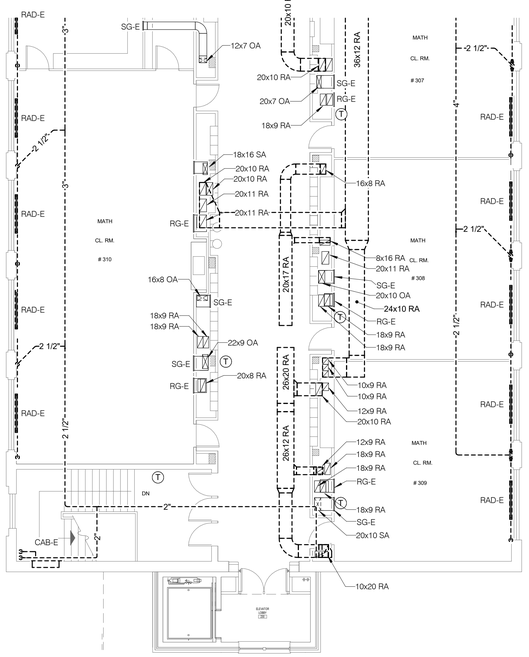
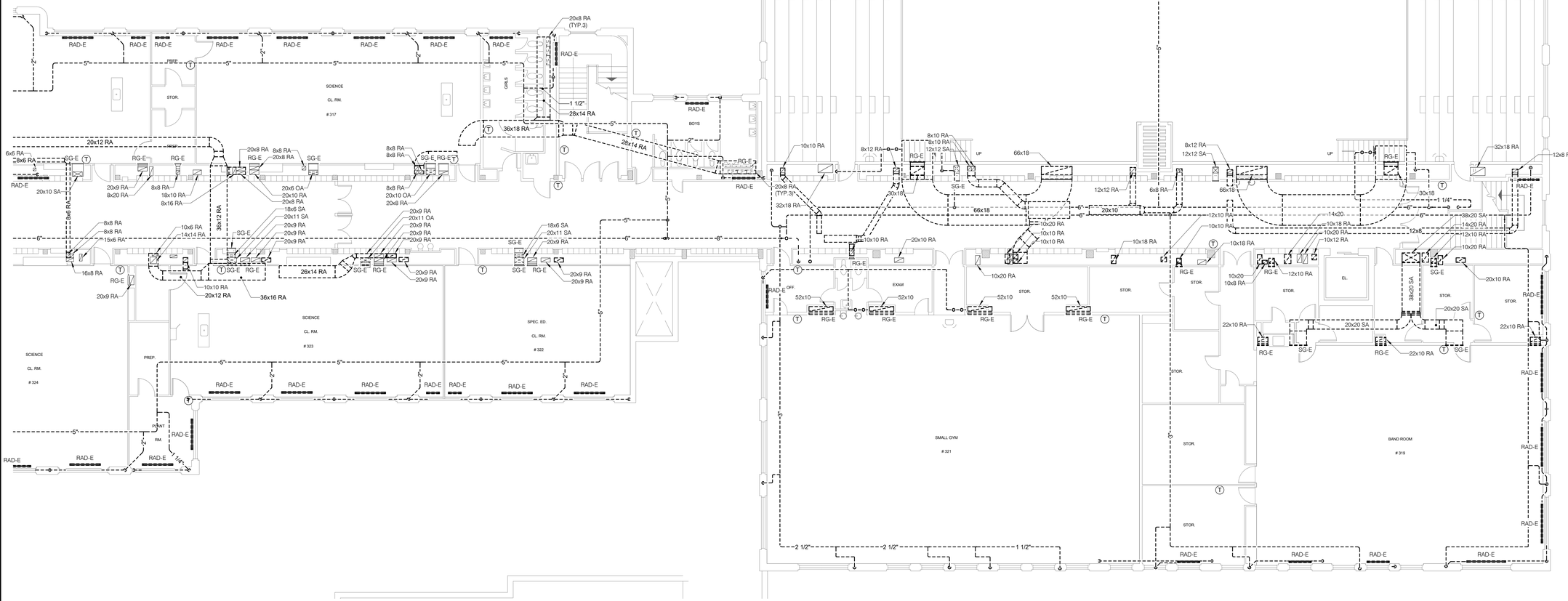


2 THIRD FLOOR DEMOLITION - MECHANICAL - AREA F

1/8" = 1'-0"



1 THIRD FLOOR DEMOLITION - MECHANICAL - AREA B

1/8" = 1'-0"

21002885.04 1/28/2022 1:07:15 PM ESSER HVAC Improvements - East High School

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Approved	**BRAGAR**

SHEET TITLE

THIRD FLOOR DEMOLITION - MECHANICAL - AREA B & F

SCALE

Scale: **As indicated**

SHEET NUMBER

M103B

GENERAL SHEET NOTES:

1. THE ENTIRE ROOF, WITH THE EXCEPTION OF THE NEWER WHITE ROOFING, WILL BE REPLACED DURING THE SAME CONSTRUCTION SCHEDULE AS THIS WORK BUT UNDER A SEPARATE CONTRACT. COORDINATE WITH ROOF REPLACEMENT CONTRACTOR FOR LOCATIONS OF ALL REMOVED AND NEW MECHANICAL EQUIPMENT.
2. REMOVE ASSOCIATED CURBS, SUPPORTS, CONTROL WIRING, ETC. ASSOCIATED WITH ANY EQUIPMENT NOTED FOR REMOVAL ON THIS PLAN. PATCHING OF OPENINGS TO BE BY THE ROOFING CONTRACTOR.

1 ROOF DEMOLITION - MECHANICAL - AREA A

1/8" = 1'-0"

NORTH

21002885.04 1/28/2022 1:07:19 PM ESSER HVAC Improvements - East High School

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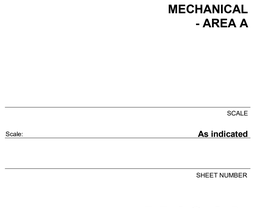

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Drawn	**BRAGAR**
Checked	**ALIHAM**
Approved	**BRAGAR**

SHEET TITLE

ROOF DEMOLITION - MECHANICAL - AREA A

SCALE

Scale: **As indicated**

SHEET NUMBER

M104A

GENERAL SHEET NOTES:

1. THE ENTIRE ROOF, WITH THE EXCEPTION OF THE NEWER WHITE ROOFING, WILL BE REPLACED DURING THE SAME CONSTRUCTION SCHEDULE AS THIS WORK BUT UNDER A SEPARATE CONTRACT. COORDINATE WITH ROOF REPLACEMENT CONTRACTOR FOR LOCATIONS OF ALL REMOVED AND NEW MECHANICAL EQUIPMENT.
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NORTH

1 ROOF DEMOLITION - MECHANICAL - AREA B

1/8" = 1'-0"

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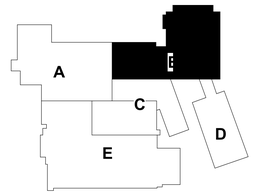

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SHEET TITLE

ROOF DEMOLITION - MECHANICAL - AREA B

SCALE

Scale: **As indicated**

SHEET NUMBER

M104B

21002885.04 1/28/2022 1:07:23 PM ESSER HVAC Improvements - East High School

GENERAL SHEET NOTES:

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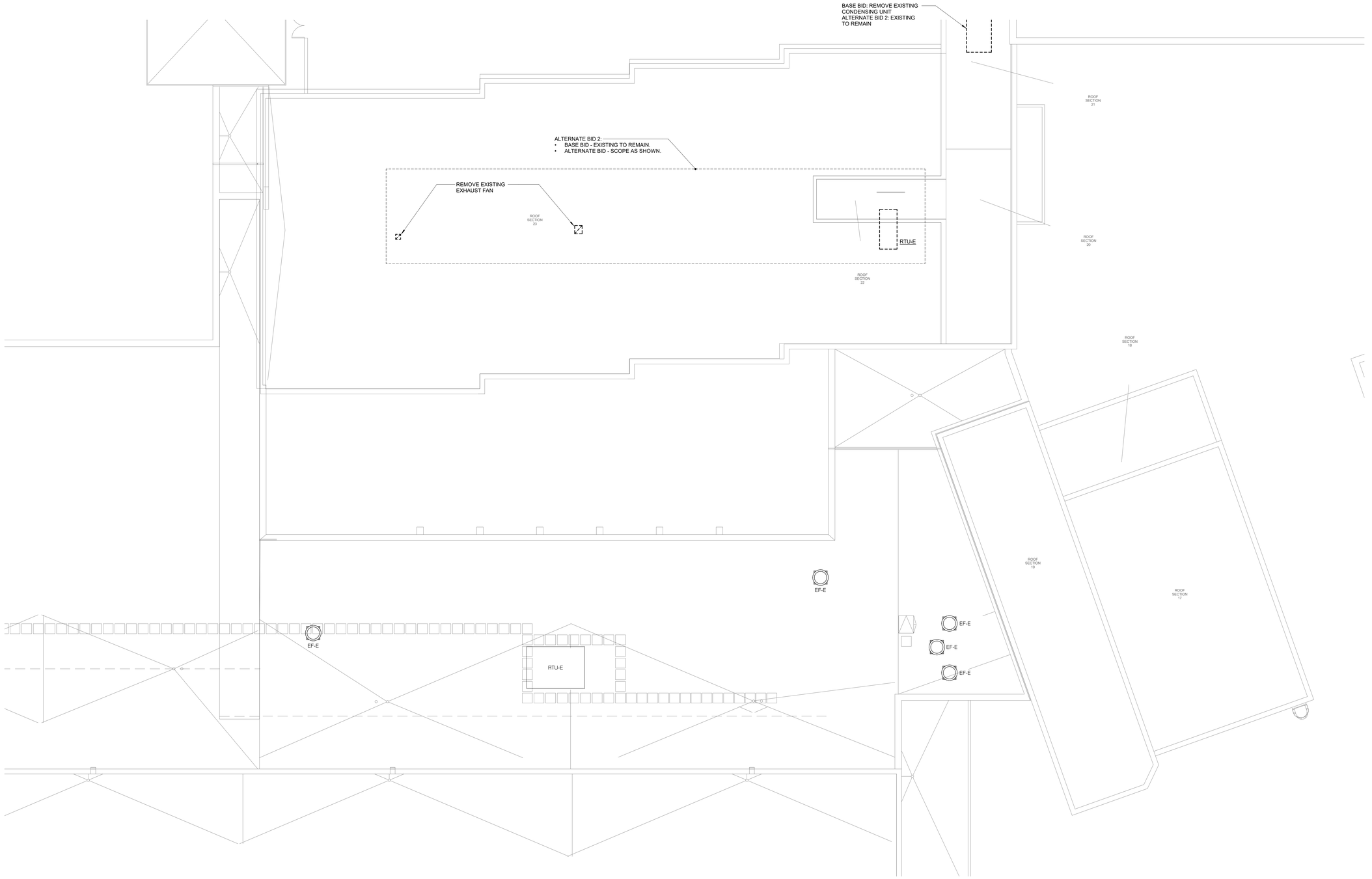

NORTH 1 **ROOF DEMOLITION - MECHANICAL - AREA C**
1/8" = 1'-0"

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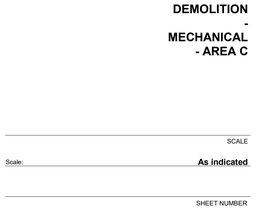
KEY PLAN



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Checked	**ALIHAM**
Approved	**BRAGAR**

SHEET TITLE
ROOF DEMOLITION - MECHANICAL - AREA C

SCALE
Scale: **As indicated**

SHEET NUMBER
M104C

21002885.04 1/28/2022 1:07:26 PM ESSER HVAC Improvements - East High School

GENERAL SHEET NOTES:

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NORTH

1 **ROOF DEMOLITION - MECHANICAL - AREA D**

1/8" = 1'-0"

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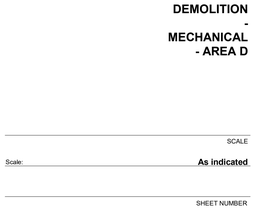
KEY PLAN



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SHEET TITLE

ROOF DEMOLITION - MECHANICAL - AREA D

SCALE

Scale: **As indicated**

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M104D

21002885.04 1/28/2022 1:07:28 PM ESSER HVAC Improvements - East High School

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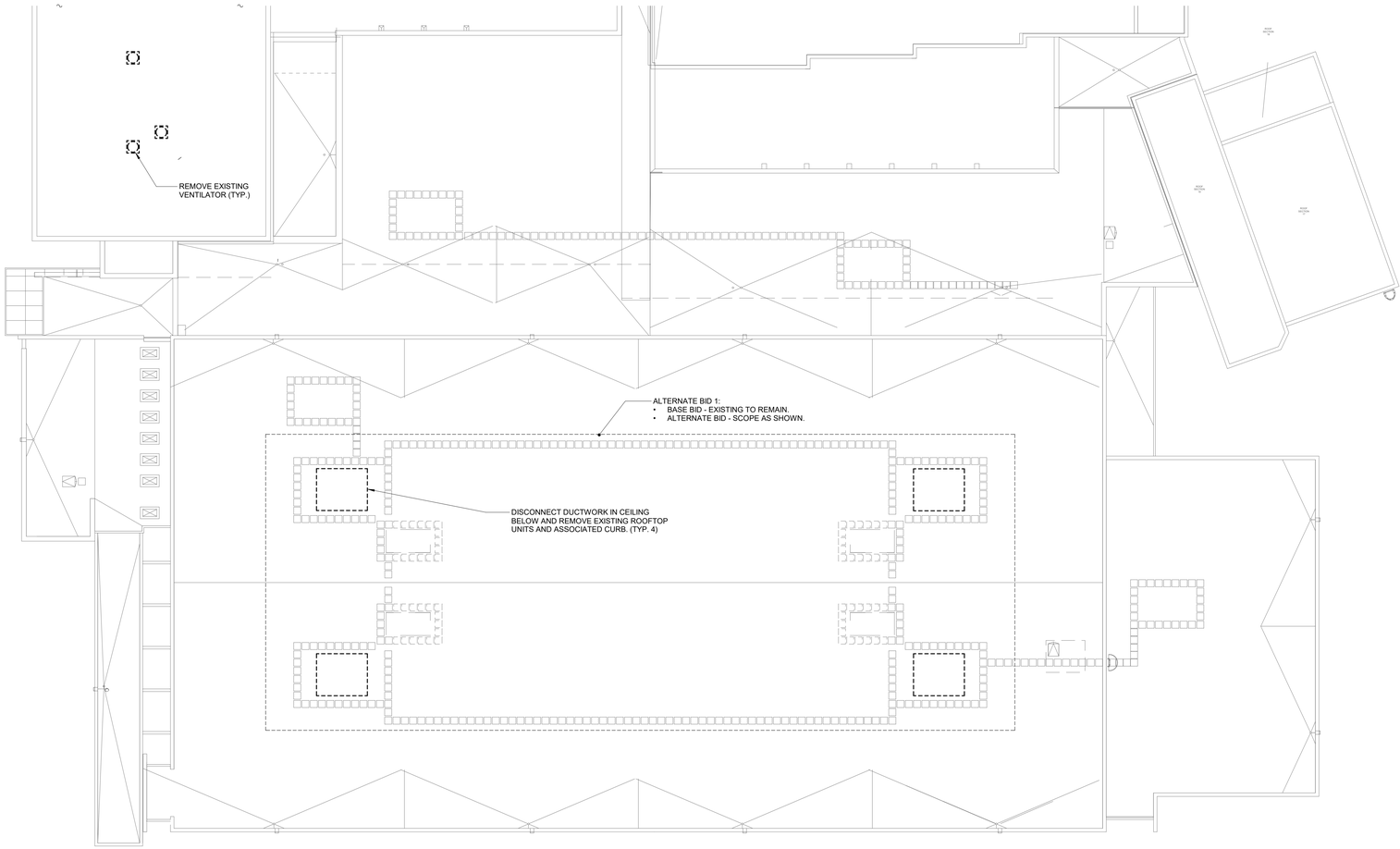

NORTH

1 ROOF DEMOLITION - MECHANICAL - AREA E

1/16" = 1'-0"

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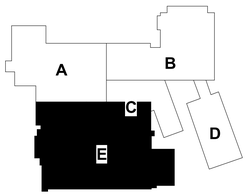
KEY PLAN



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REVISIONS

No.	Date	Revision / Issue

SHEET INFORMATION

Issue	**BID DOCUMENTS**
Date	**JANUARY 28, 2022**
Job Number	**21002885.04**
Drawn	**BRAGAR**
Checked	**ALIHAM**
Approved	**BRAGAR**

SHEET TITLE

ROOF DEMOLITION - MECHANICAL - AREA E

SCALE

Scale: **As indicated**

SHEET NUMBER

M104E

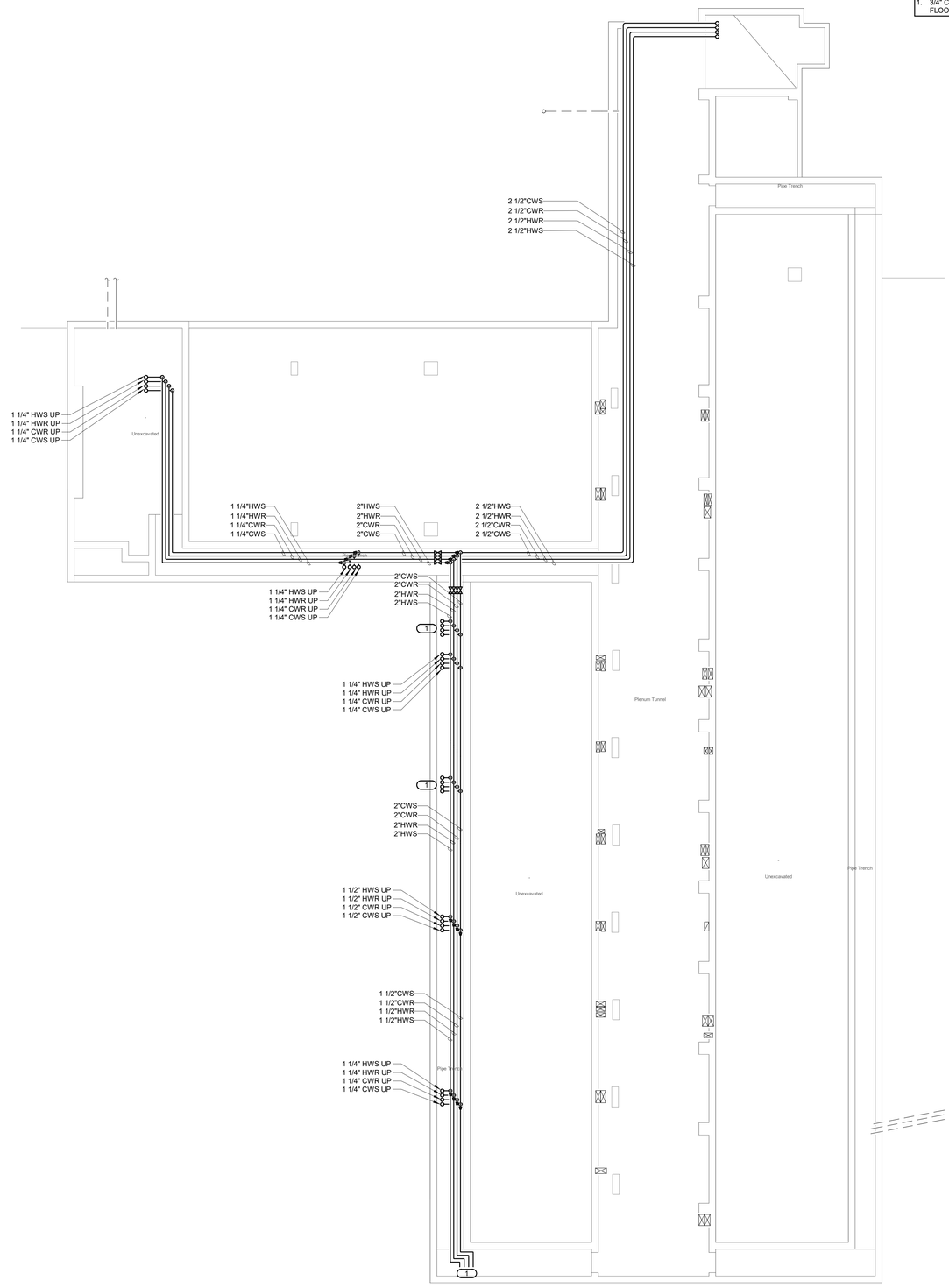
21002885.04 1/28/2022 1:07:31 PM ESSER HVAC Improvements - East High School

GENERAL SHEET NOTES:

1. ALL CHILLED AND HEATING WATER PIPING RUNNING VERTICALLY IS TO BE HIDDEN IN A CHASE. REFER TO DETAILS AND ARCHITECTURAL PLANS FOR CHASE INFORMATION.
2. PROVIDE ISOLATION VALVES AT MAJOR BRANCH CONNECTIONS AND AT THE BASE OF ALL RISERS.

KEYNOTES: (#)

1. 3/4" CWS, CWR, HWS, HWR UP TO FCU ON FLOOR ABOVE.



NORTH

1 SUBFLOOR - MECHANICAL - AREA A

1/8" = 1'-0"

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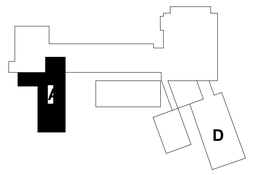

KEYPLAN

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Checked	**ALIHAM**
Approved	**BRAGAR**

SHEET TITLE

SUBFLOOR - MECHANICAL - AREA A

SCALE

Scale: **As indicated**

SHEET NUMBER

M199A

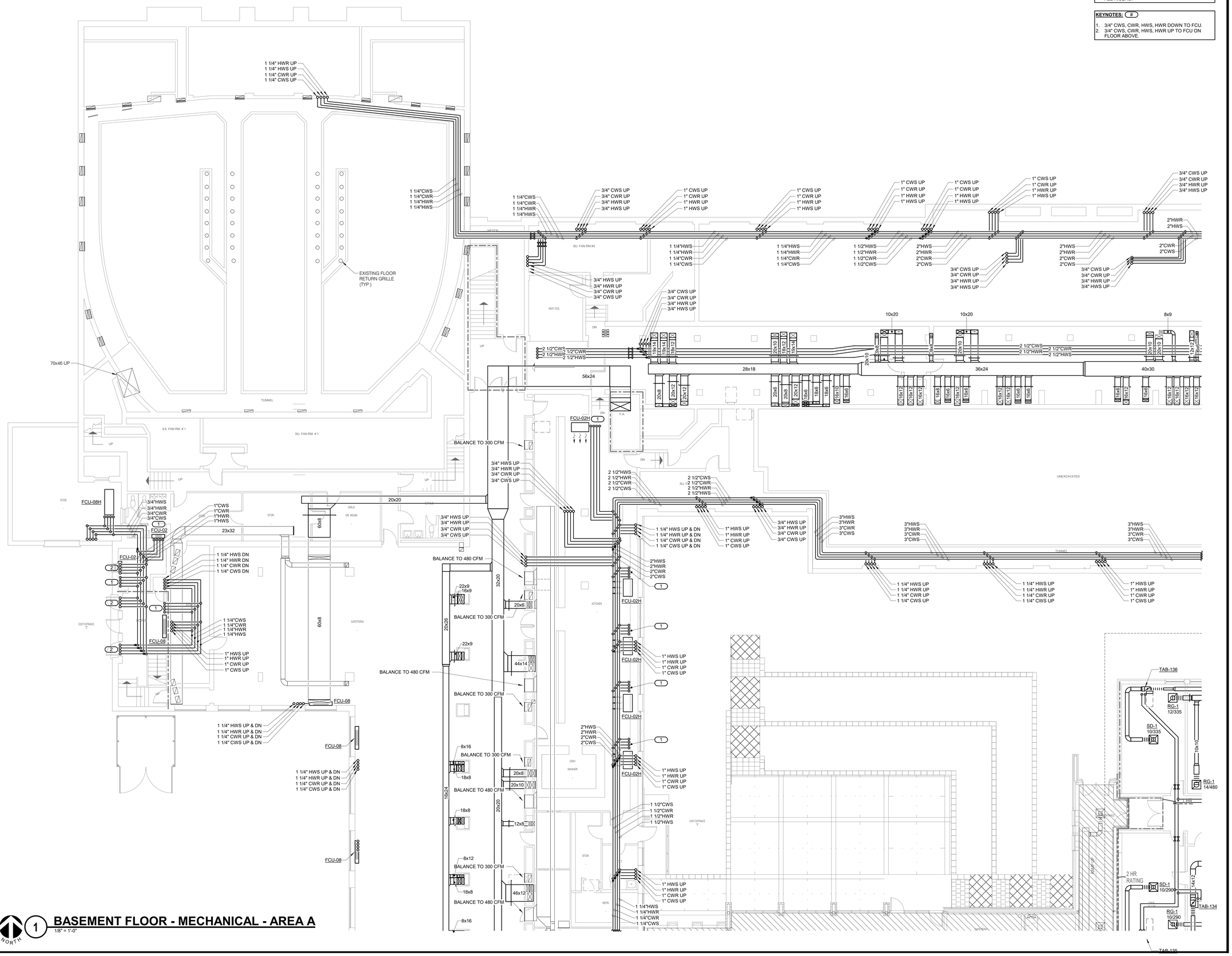
21002885.04 1/28/2022 1:07:36 PM ESSER HVAC Improvements - East High School

GENERAL SHEET NOTES:

1. ALL CHILLED AND HEATING WATER PIPING RUNNING VERTICALLY IS TO BE HIDDEN IN A CHASE. REFER TO DETAILS AND ARCHITECTURAL PLANS FOR CHASE INFORMATION.
2. PROVIDE ISOLATION VALVES AT MAJOR BRANCH CONNECTIONS AND AT THE BASE OF ALL RISERS.

KEYNOTES: (#)

1. 3/4" CWS, CWR, HWS, HWR DOWN TO FCU.
2. 3/4" CWS, CWR, HWS, HWR UP TO FCU ON FLOOR ABOVE.



BASEMENT FLOOR - MECHANICAL - AREA A

1/8" = 1'-0"

NORTH

21002885.04 1/28/2022 1:07:48 PM ESSER HVAC Improvements - East High School

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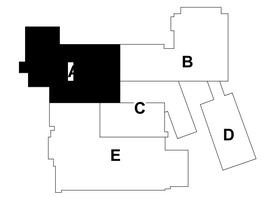
KEY PLAN



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Job Number	21002885.04
Drawn	BRAGAR
Checked	ALIHAM
Approved	BRAGAR

SHEET TITLE

BASEMENT FLOOR - MECHANICAL - AREA A

SCALE

Scale: As indicated

SHEET NUMBER

M200A

GENERAL SHEET NOTES:

1. ALL CHILLED AND HEATING WATER PIPING RUNNING VERTICALLY IS TO BE HIDDEN IN A CHASE. REFER TO DETAILS AND ARCHITECTURAL PLANS FOR CHASE INFORMATION.
2. PROVIDE ISOLATION VALVES AT MAJOR BRANCH CONNECTIONS AND AT THE BASE OF ALL RISERS.

KEYNOTES: (#)

1. 3/4" CWS, CWR, HWS, HWR UP TO FCU ON FLOOR ABOVE.
2. STEAM AND CONDENSATE SHALL PASS THROUGH THE WALL BETWEEN THE MECHANICAL/ELECTRICAL ROOM AND THE PIPE TUNNEL. THE ELEVATIONS ARE SUCH THAT THE FLOOR OF THE MECHANICAL ROOM IS LOWER THAN THE TUNNEL CEILING AND THEY SHARE A WALL, PIPES SHALL TIE INTO ANY EXISTING STEAM AND CONDENSATE PIPE THAT IS THE SAME SIZE OR LARGER. ROUTE PIPE ACROSS TUNNEL WALKWAY AS HIGH AS POSSIBLE.

1 BASEMENT FLOOR - MECHANICAL - AREA B

1/8" = 1'-0"

NORTH

ALTERNATE 2:
- BASE BID - EXISTING TO REMAIN.
- ALTERNATE BID - SCOPE AS SHOWN.

EXTERIOR PIPE DRAIN DOWN ISOLATION VALVES.

REFER TO DETAILS FOR CHILLER SUPPORT SLAB REQUIREMENTS.

BALANCE TO 165 CFM

BALANCE TO 1110 CFM

CHILLED WATER BYPASS

21002885.04 1/28/2022 1:08:03 PM ESSER HVAC Improvements - East High School

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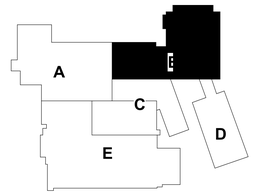
KEY PLAN



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Drawn	BRAGAR
Checked	ALIHAM
Approved	BRAGAR

SHEET TITLE

BASEMENT FLOOR - MECHANICAL - AREA B

SCALE

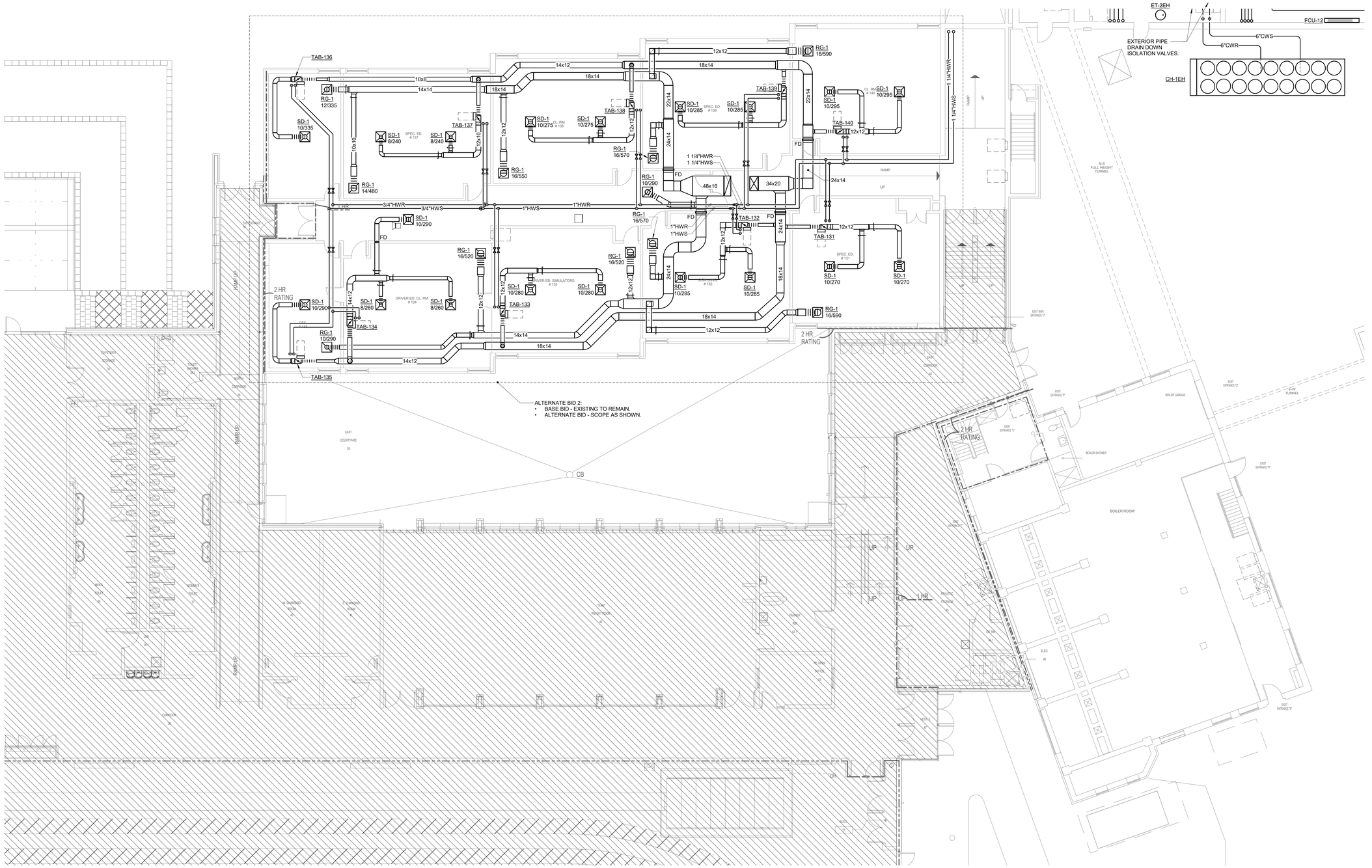
Scale: As indicated

SHEET NUMBER

M200B

GENERAL SHEET NOTES:

1. ALL CHILLED AND HEATING WATER PIPING RUNNING VERTICALLY IS TO BE HIDDEN IN A CHASE. REFER TO DETAILS AND ARCHITECTURAL PLANS FOR CHASE INFORMATION.

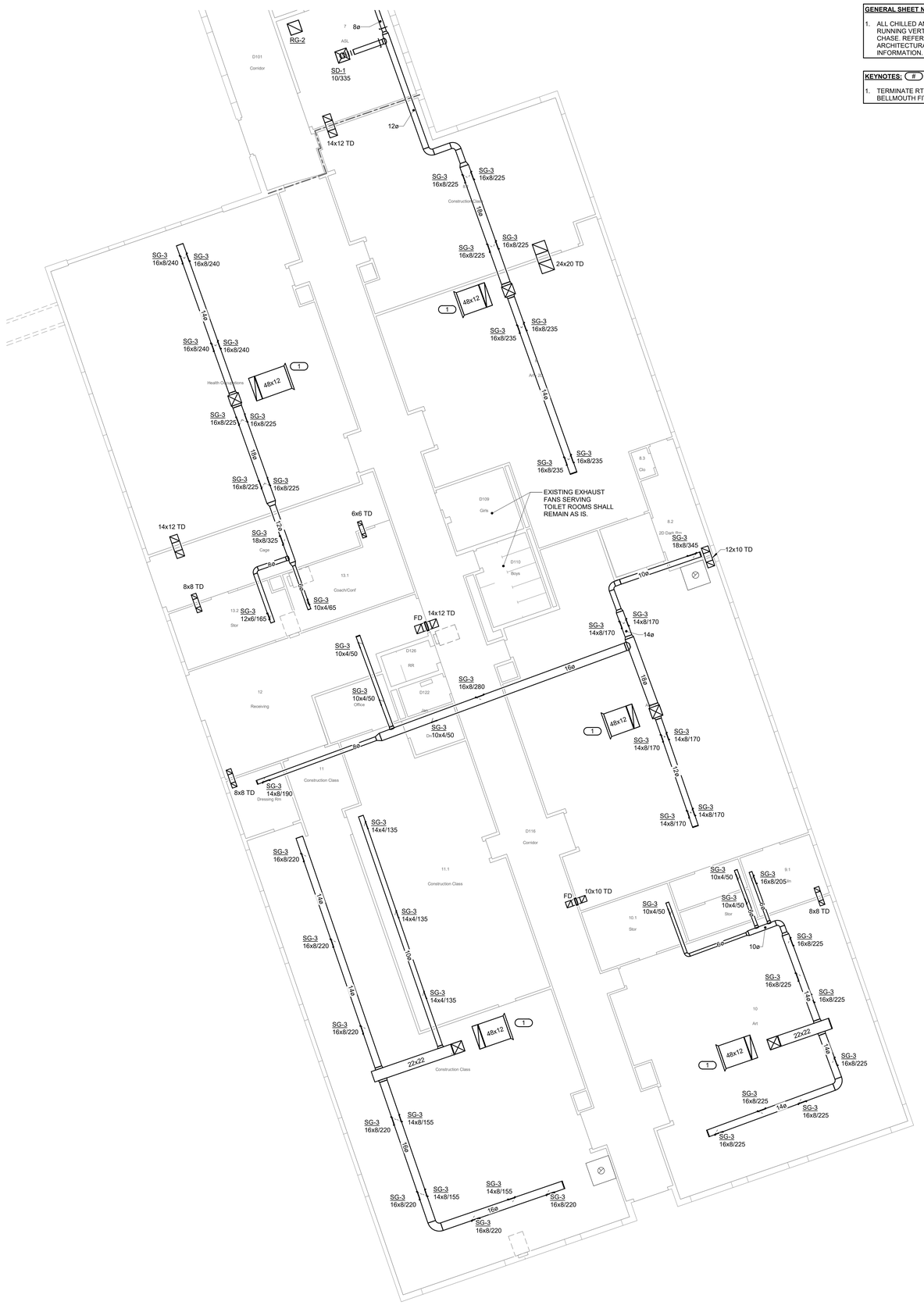

TAB-136
TAB-135
TAB-134
TAB-133
TAB-132
TAB-131
TAB-140
TAB-139
TAB-138
TAB-137
RG-1 12/335
SD-1 10/335
RG-1 14/480
SD-1 10/290
RG-1 10/290
SD-1 8/260
SD-1 8/240
SD-1 10/275
SD-1 10/280
SD-1 10/285
SD-1 10/295
SD-1 10/296
SD-1 10/270
RG-1 16/550
RG-1 16/570
RG-1 16/520
RG-1 16/590
RG-1 10/290
2 HR RATING
1 HR
3/4"HWR
3/4"HWS
1"HWS
1"HWR
1 1/4"HWR
1 1/4"HWS
1"HWR
1"HWS
FD
48x16
34x20
24x14
22x14
18x14
14x14
14x12
12x12
10x10
10x8
ALTERNATE BID 2:
• BASE BID - EXISTING TO REMAIN.
• ALTERNATE BID - SCOPE AS SHOWN.
CB
ET-2EH
FCU-12
6"CWS
6"CWR
EXTERIOR PIPE DRAIN DOWN ISOLATION VALVES.
CH-1EH
RAMP
UP
N-S FULL HEIGHT TUNNEL
E-W TUNNEL
EAST COURTYARD 39
EAST MAIN ENTRANCE "Y"
EAST ENTRANCE "F"
EAST ENTRANCE "Y"
EAST ENTRANCE "E"
BOILER GARAGE
BOILER SHOWER
BOILER ROOM
DRIVER ED. SIMULATORS # 133
DRIVER ED. CL. RM. # 134
SPEC. ED. # 137
SPEC. ED. # 139
SPEC. ED. # 131
CL. RM. # 135
NOW CLOSED # 132
CORRIDOR 28
CORRIDOR 38
RAMP UP
RAMP DN
MEN'S TOILET 29
WOMEN'S TOILET 27
JAN. 30
W. DIAMOND ROOM 26
E. DIAMOND ROOM 25
GYM WEIGHT ROOM 37
CLOSET 36A
ACT 1 42
W. CPKD. ROOM 41
ELEC. 40
MECH. 43
ELEC. 46
MECH. 47
MECH. 48
MECH. 49
MECH. 50
MECH. 51
MECH. 52
MECH. 53
MECH. 54
MECH. 55
MECH. 56
MECH. 57
MECH. 58
MECH. 59
MECH. 60
MECH. 61
MECH. 62
MECH. 63
MECH. 64
MECH. 65
MECH.

GENERAL SHEET NOTES:

1. ALL CHILLED AND HEATING WATER PIPING RUNNING VERTICALLY IS TO BE HIDDEN IN A CHASE. REFER TO DETAILS AND ARCHITECTURAL PLANS FOR CHASE INFORMATION.

KEYNOTES: (#)

1. TERMINATE RTU RETURN DUCT WITH BELLMOUTH FITTING AND BIRDSCREEN.



1 **BASEMENT FLOOR - MECHANICAL - AREA D**
1/8" = 1'-0"

NORTH

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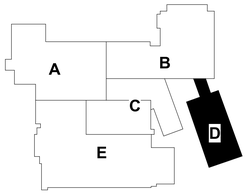
KEY PLAN



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Job Number	**21002885.04**
Drawn	**BRAGAR**
Checked	**ALIHAM**
Approved	**BRAGAR**

SHEET TITLE

BASEMENT FLOOR - MECHANICAL - AREA D

SCALE

Scale: **As indicated**

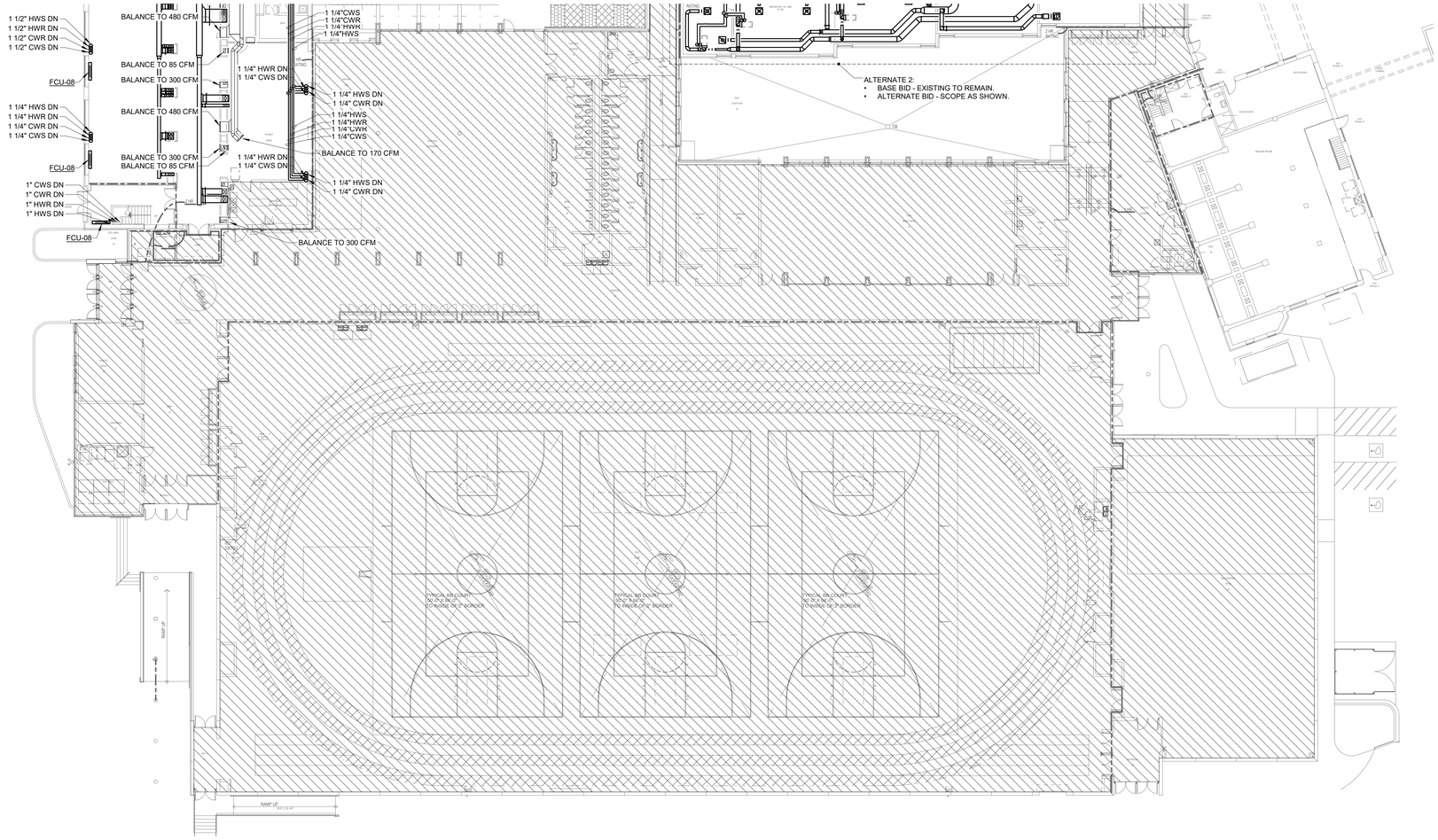
SHEET NUMBER

M200D

21002885.04 1/28/2022 1:08:16 PM ESSER HVAC Improvements - East High School

GENERAL SHEET NOTES:

1. ALL CHILLED AND HEATING WATER PIPING RUNNING VERTICALLY IS TO BE HIDDEN IN A CHASE. REFER TO DETAILS AND ARCHITECTURAL PLANS FOR CHASE INFORMATION.



NORTH

1 BASEMENT FLOOR - MECHANICAL - AREA E

1/16" = 1'-0"

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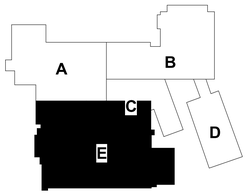

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SHEET TITLE

BASEMENT FLOOR - MECHANICAL - AREA E

SCALE

Scale: **As indicated**

SHEET NUMBER

M200E

21002885.04 1/28/2022 1:08:21 PM ESSER HVAC Improvements - East High School

GENERAL SHEET NOTES:

1. ALL CHILLED AND HEATING WATER PIPING RUNNING VERTICALLY IS TO BE HIDDEN IN A CHASE. REFER TO DETAILS AND ARCHITECTURAL PLANS FOR CHASE INFORMATION.

KEYNOTES: (#)

1. 3/4" CWS, CWR, HWS, HWR DOWN TO FCU.
2. 3/4" CWS, CWR, HWS, HWR UP TO FCU ON FLOOR ABOVE.

FABRIC DUCTWORK: BALANCE TO 2,815 CFM. PROVIDE ADJUSTABLE FLOW DEVICE AND SIZE DEVIATIONS AS RECOMMENDED BY THE MANUFACTURER.COORDINATE ROUTING WITH THEATER RIGGING AND USER.

18ø

20x20 SA UP

1 FIRST FLOOR - MECHANICAL - AREA A
1/8" = 1'-0"

NORTH

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Drawn	BRAGAR
Checked	ALIHAM
Approved	BRAGAR

SHEET TITLE

FIRST FLOOR - MECHANICAL - AREA A

SCALE

Scale: As indicated

SHEET NUMBER

M201A

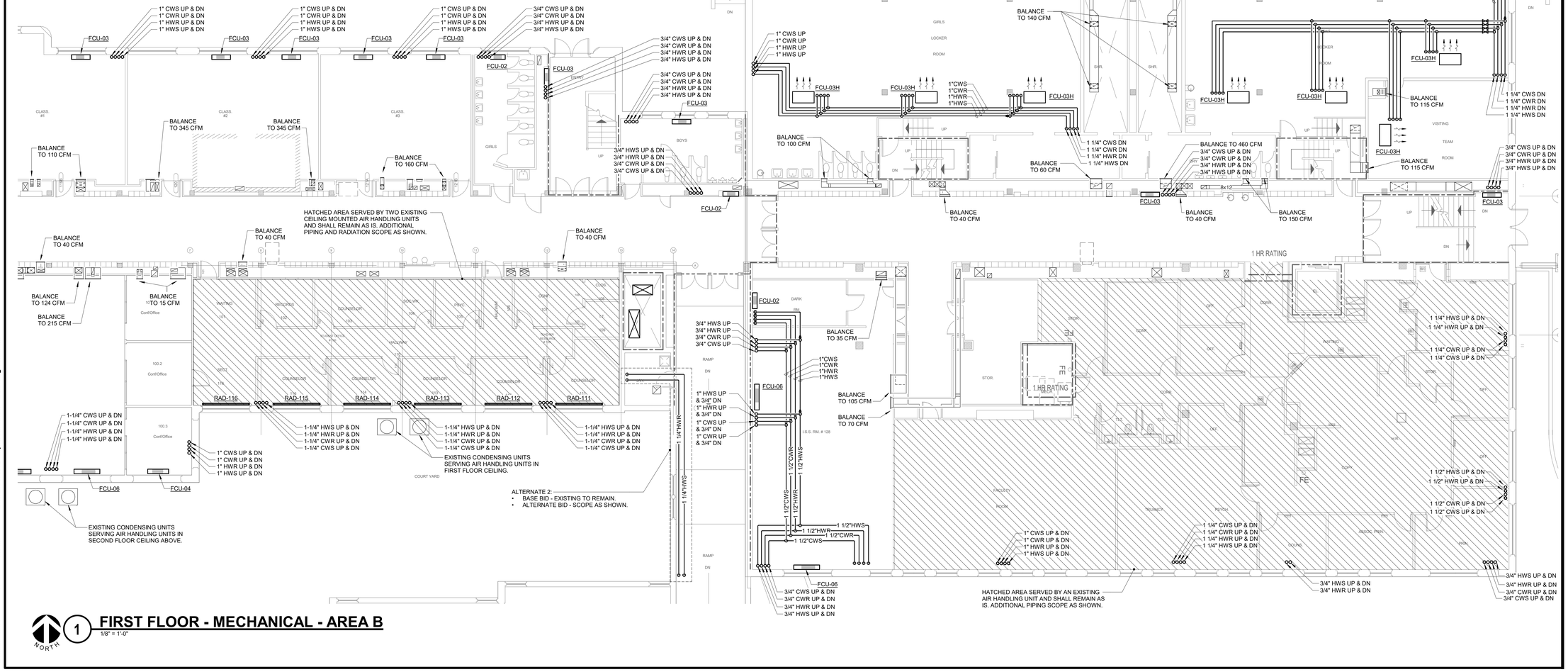
21002885.04 1/28/2022 1:08:29 PM ESSER HVAC Improvements - East High School

GENERAL SHEET NOTES:

1. ALL CHILLED AND HEATING WATER PIPING RUNNING VERTICALLY IS TO BE HIDDEN IN A CHASE. REFER TO DETAILS AND ARCHITECTURAL PLANS FOR CHASE INFORMATION.

KEYNOTES: (#)

1. 3/4" CWS, CWR, HWS, HWR UP TO FCU ON FLOOR ABOVE.



1 FIRST FLOOR - MECHANICAL - AREA B
1/8" = 1'-0"

21002885.04 1/28/2022 1:08:38 PM ESSER HVAC Improvements - East High School

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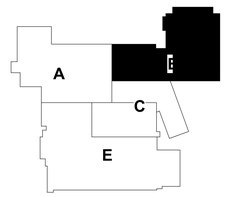

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SHEET TITLE

FIRST FLOOR - MECHANICAL - AREA B

SCALE

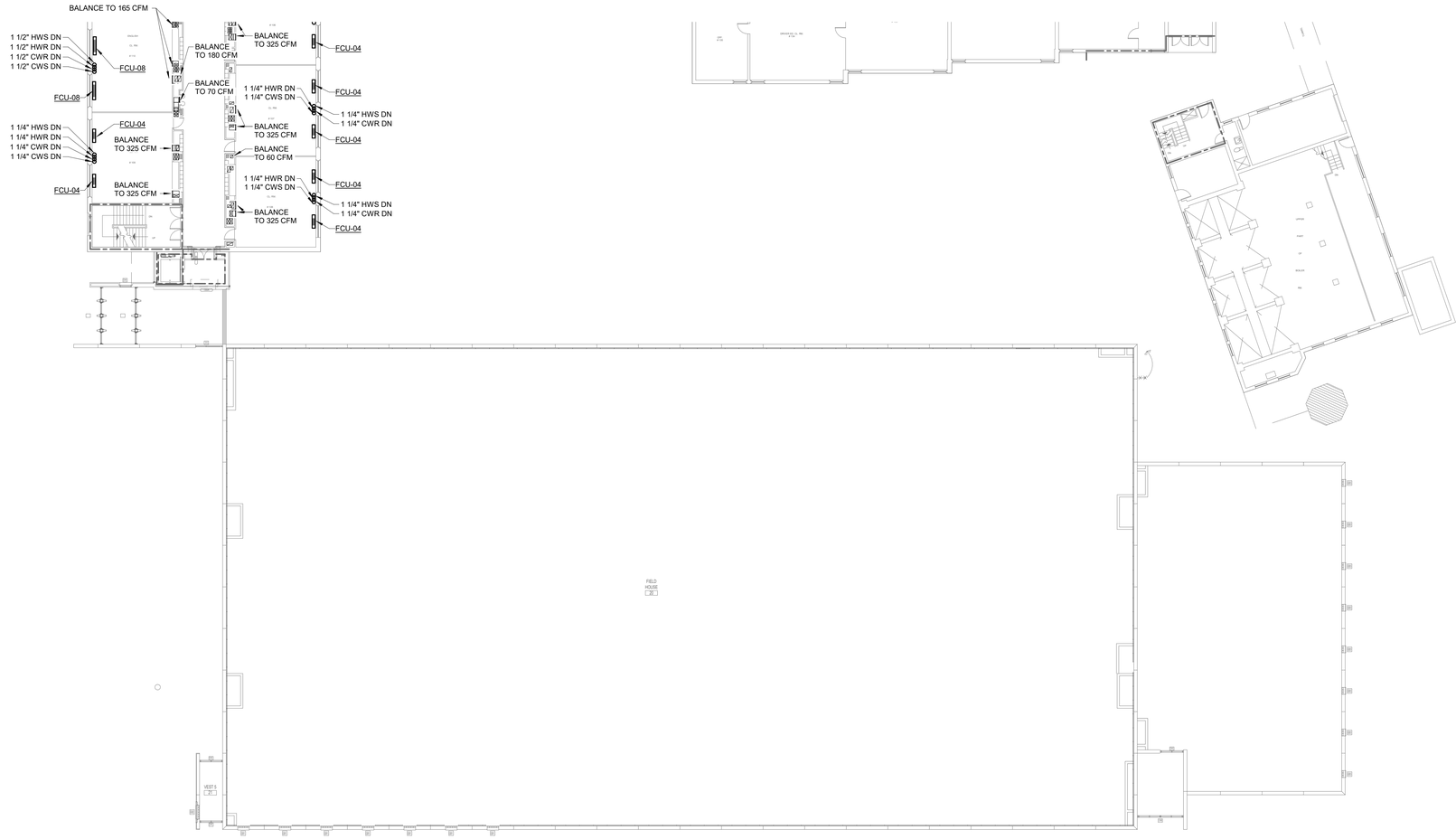
Scale: As indicated

SHEET NUMBER

M201B

GENERAL SHEET NOTES:

1. ALL CHILLED AND HEATING WATER PIPING RUNNING VERTICALLY IS TO BE HIDDEN IN A CHASE. REFER TO DETAILS AND ARCHITECTURAL PLANS FOR CHASE INFORMATION.



FIRST FLOOR - MECHANICAL - AREA E

1/16" = 1'-0"

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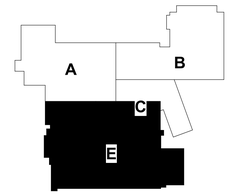

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REVISIONS

No.	Date	Revision / Issue

SHEET INFORMATION

Issue	**BID DOCUMENTS**
Date	**JANUARY 28, 2022**
Job Number	**21002885.04**
Drawn	**BRAGAR**
Checked	**ALIHAM**
Approved	**BRAGAR**

SHEET TITLE

FIRST FLOOR - MECHANICAL - AREA E

SCALE

Scale: **As indicated**

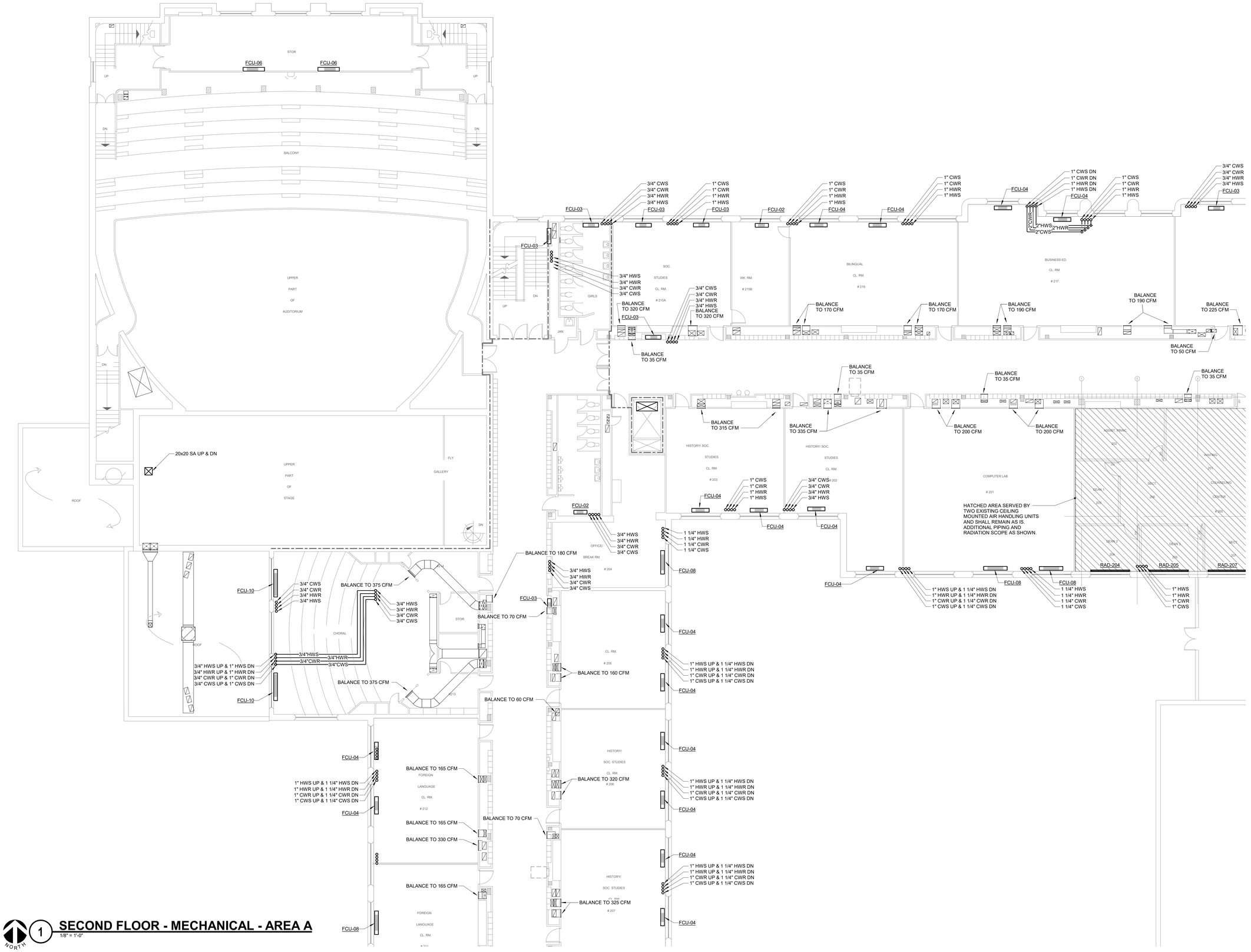
SHEET NUMBER

M201E

21002885.04 1/28/2022 1:08:41 PM ESSER HVAC Improvements - East High School

GENERAL SHEET NOTES:

1. ALL CHILLED AND HEATING WATER PIPING RUNNING VERTICALLY IS TO BE HIDDEN IN A CHASE. REFER TO DETAILS AND ARCHITECTURAL PLANS FOR CHASE INFORMATION.



1 SECOND FLOOR - MECHANICAL - AREA A

1/8" = 1'-0"

NORTH

21002885.04 1/28/2022 1:08:47 PM ESSER HVAC Improvements - East High School

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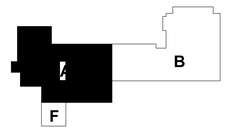
KEY PLAN



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Approved	**BRAGAR**

SHEET TITLE

SECOND FLOOR - MECHANICAL - AREA A

SCALE

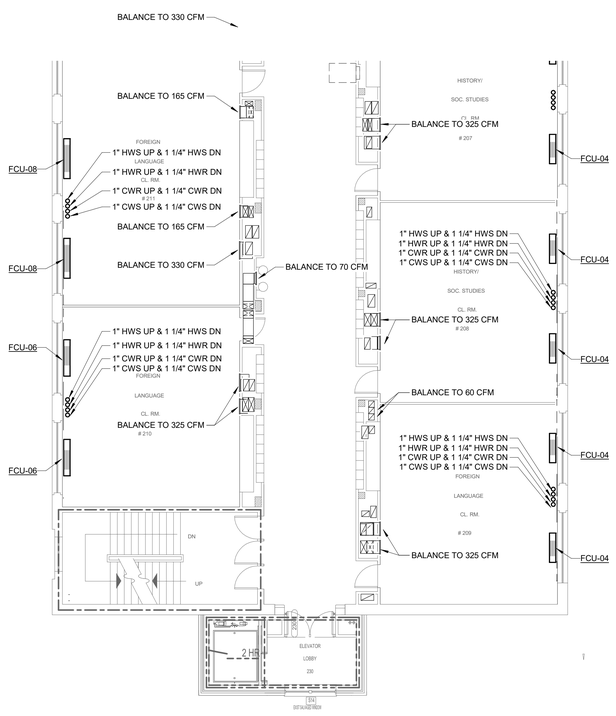
Scale: **As indicated**

SHEET NUMBER

M202A

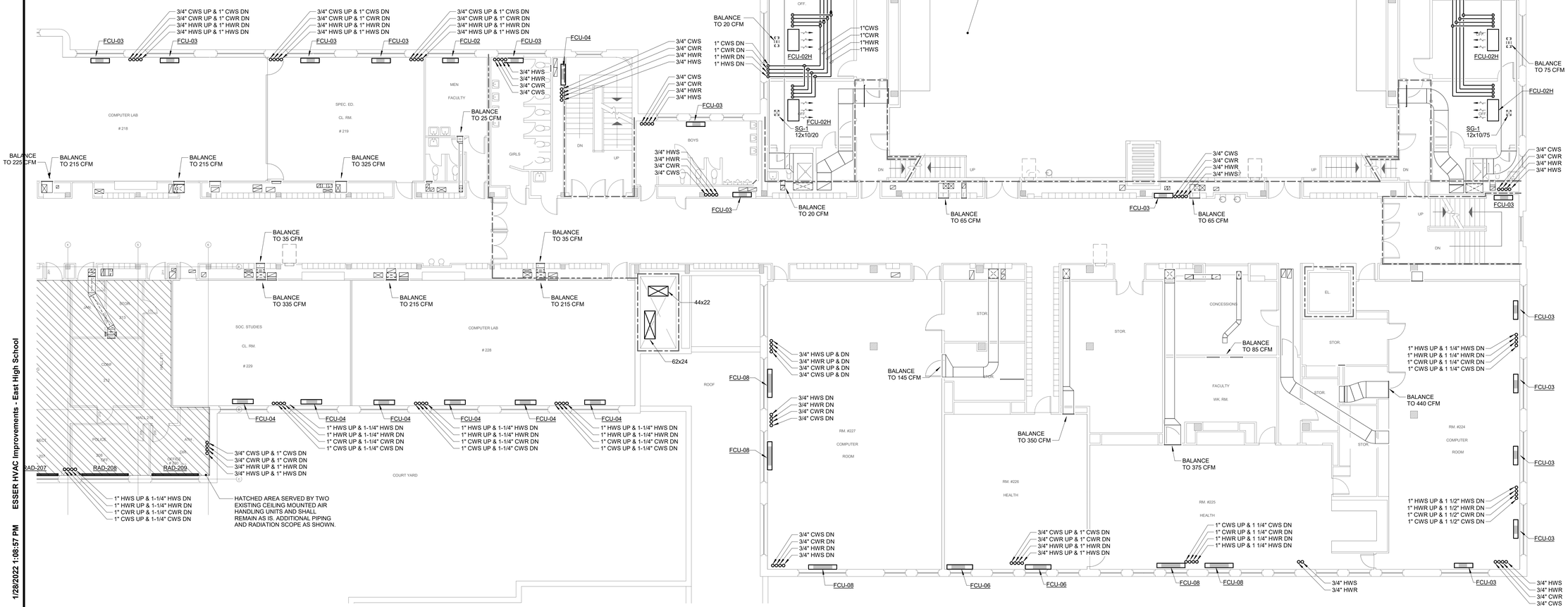
GENERAL SHEET NOTES:

1. ALL CHILLED AND HEATING WATER PIPING RUNNING VERTICALLY IS TO BE HIDDEN IN A CHASE. REFER TO DETAILS AND ARCHITECTURAL PLANS FOR CHASE INFORMATION.



2 SECOND FLOOR - MECHANICAL - AREA F

1/8" = 1'-0"



1 SECOND FLOOR - MECHANICAL - AREA B

1/8" = 1'-0"

ESSER HVAC Improvements - East High School
1/28/2022 1:08:57 PM
21002885.04

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SHEET TITLE

SECOND FLOOR - MECHANICAL - AREA B & F

SCALE

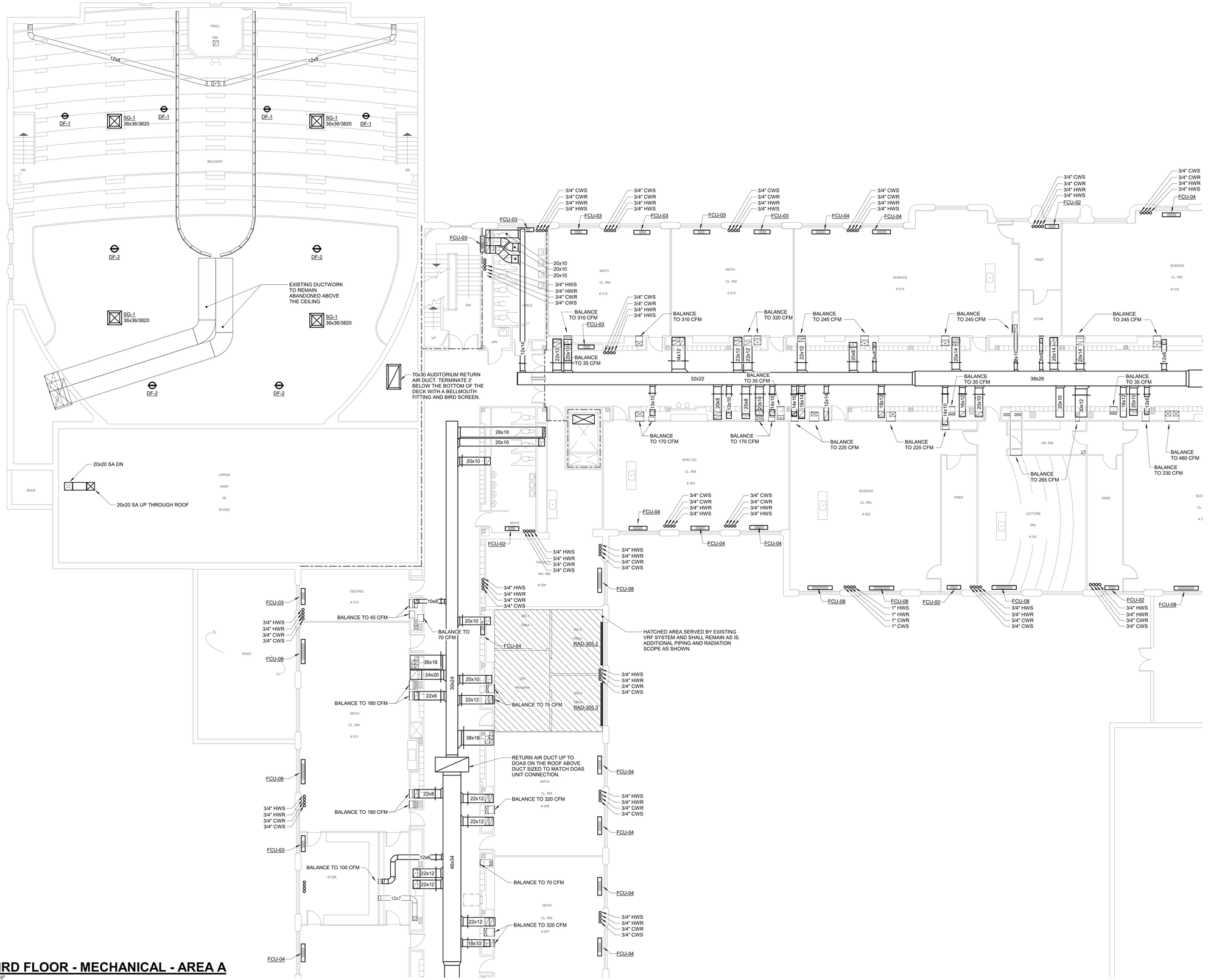
Scale: **As indicated**

SHEET NUMBER

M202B

GENERAL SHEET NOTES:

1. ALL CHILLED AND HEATING WATER PIPING RUNNING VERTICALLY IS TO BE HIDDEN IN A CHASE. REFER TO DETAILS AND ARCHITECTURAL PLANS FOR CHASE INFORMATION.



1 **THIRD FLOOR - MECHANICAL - AREA A**
1/8" = 1'-0"

21002885.04 1/28/2022 1:09:03 PM ESSER HVAC Improvements - East High School

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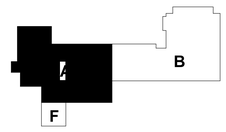

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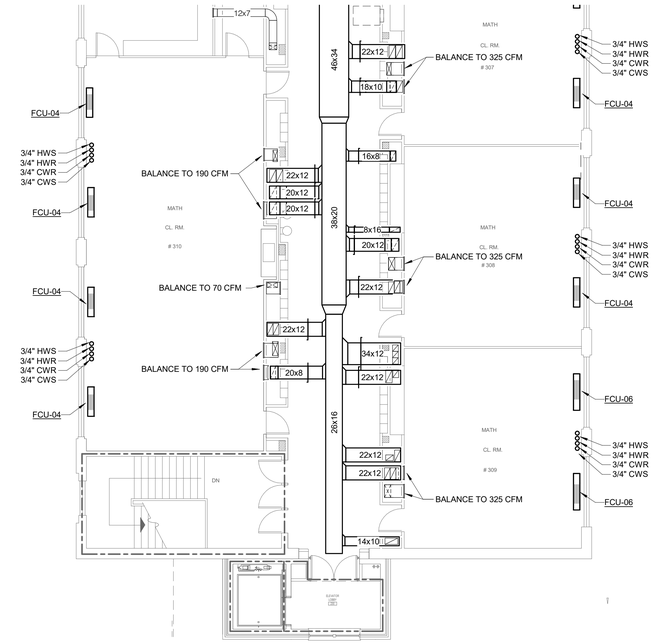
Approved	**BRAGAR**

SHEET TITLE
THIRD FLOOR - MECHANICAL - AREA A

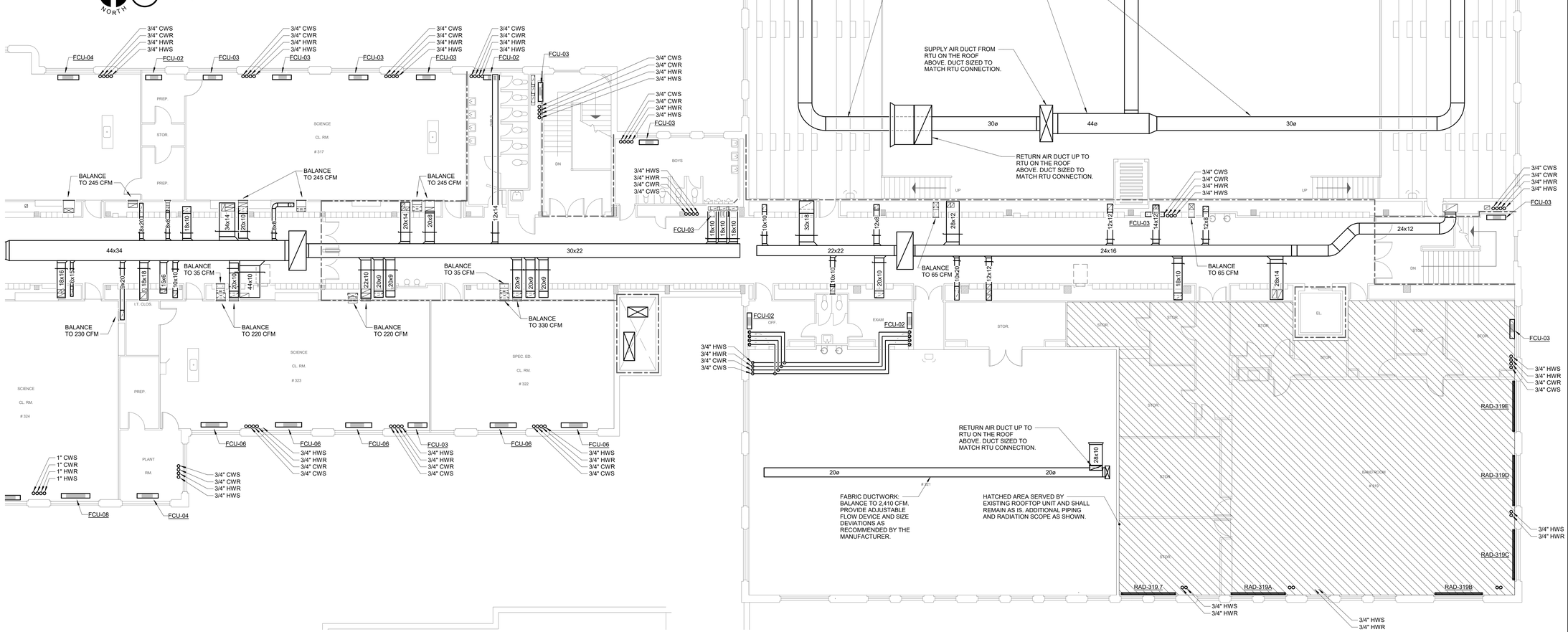
SCALE
Scale: **As indicated**

SHEET NUMBER
M203A



2 THIRD FLOOR - MECHANICAL - AREA F

1/8" = 1'-0"



1 THIRD FLOOR - MECHANICAL - AREA B

1/8" = 1'-0"

GENERAL SHEET NOTES:

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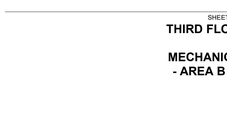

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Approved	BRAGAR

SHEET TITLE

THIRD FLOOR - MECHANICAL - AREA B & F

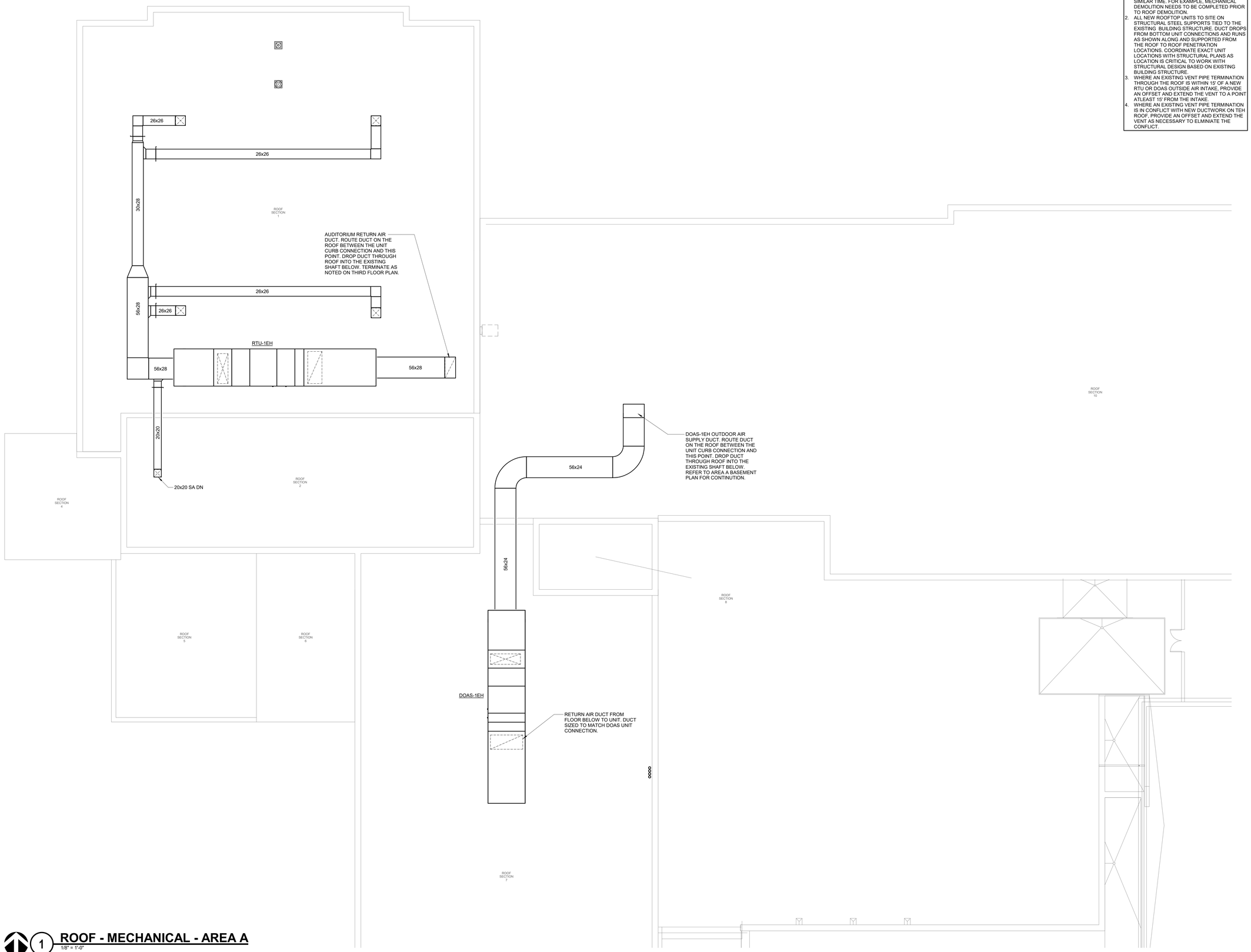
SCALE

Scale: As indicated

SHEET NUMBER

M203B

21002885.04 1/28/2022 1:09:12 PM ESSER HVAC Improvements - East High School



GENERAL SHEET NOTES:

1. THE ENTIRE ROOF, WITH THE EXCEPTION OF THE NEWER WHITE ROOFING, WILL BE REPLACED DURING THE SAME CONSTRUCTION SCHEDULE AS THIS WORK BUT UNDER A SEPARATE CONTRACT. COORDINATE ALL ROOF MECHANICAL SCOPE WITH THE ROOFING CONTRACTOR. BIDDING WILL OCCUR AT A SIMILAR TIME, CONSTRUCTION SCHEDULE SHOULD BE COORDINATED TO OCCUR AT A SIMILAR TIME. FOR EXAMPLE, MECHANICAL DEMOLITION NEEDS TO BE COMPLETED PRIOR TO ROOF DEMOLITION.
2. ALL NEW ROOFTOP UNITS TO SITE ON STRUCTURAL STEEL SUPPORTS TIED TO THE EXISTING BUILDING STRUCTURE. DUCT DROPS FROM BOTTOM UNIT CONNECTIONS AND RUNS AS SHOWN ALONG AND SUPPORTED FROM THE ROOF TO ROOF PENETRATION LOCATIONS. COORDINATE EXACT UNIT LOCATIONS WITH STRUCTURAL PLANS AS LOCATION IS CRITICAL TO WORK WITH STRUCTURAL DESIGN BASED ON EXISTING BUILDING STRUCTURE
3. WHERE AN EXISTING VENT PIPE TERMINATION THROUGH THE ROOF IS WITHIN 15' OF A NEW RTU OR DOAS OUTSIDE AIR INTAKE, PROVIDE AN OFFSET AND EXTEND THE VENT TO A POINT ATLEAST 15' FROM THE INTAKE.
4. WHERE AN EXISTING VENT PIPE TERMINATION IS IN CONFLICT WITH NEW DUCTWORK ON TEH ROOF, PROVIDE AN OFFSET AND EXTEND THE VENT AS NECESSARY TO ELMINIATE THE CONFLICT.

1 ROOF - MECHANICAL - AREA A

1/8" = 1'-0"

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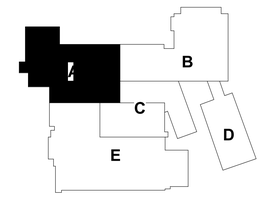

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SHEET TITLE

ROOF - MECHANICAL - AREA A

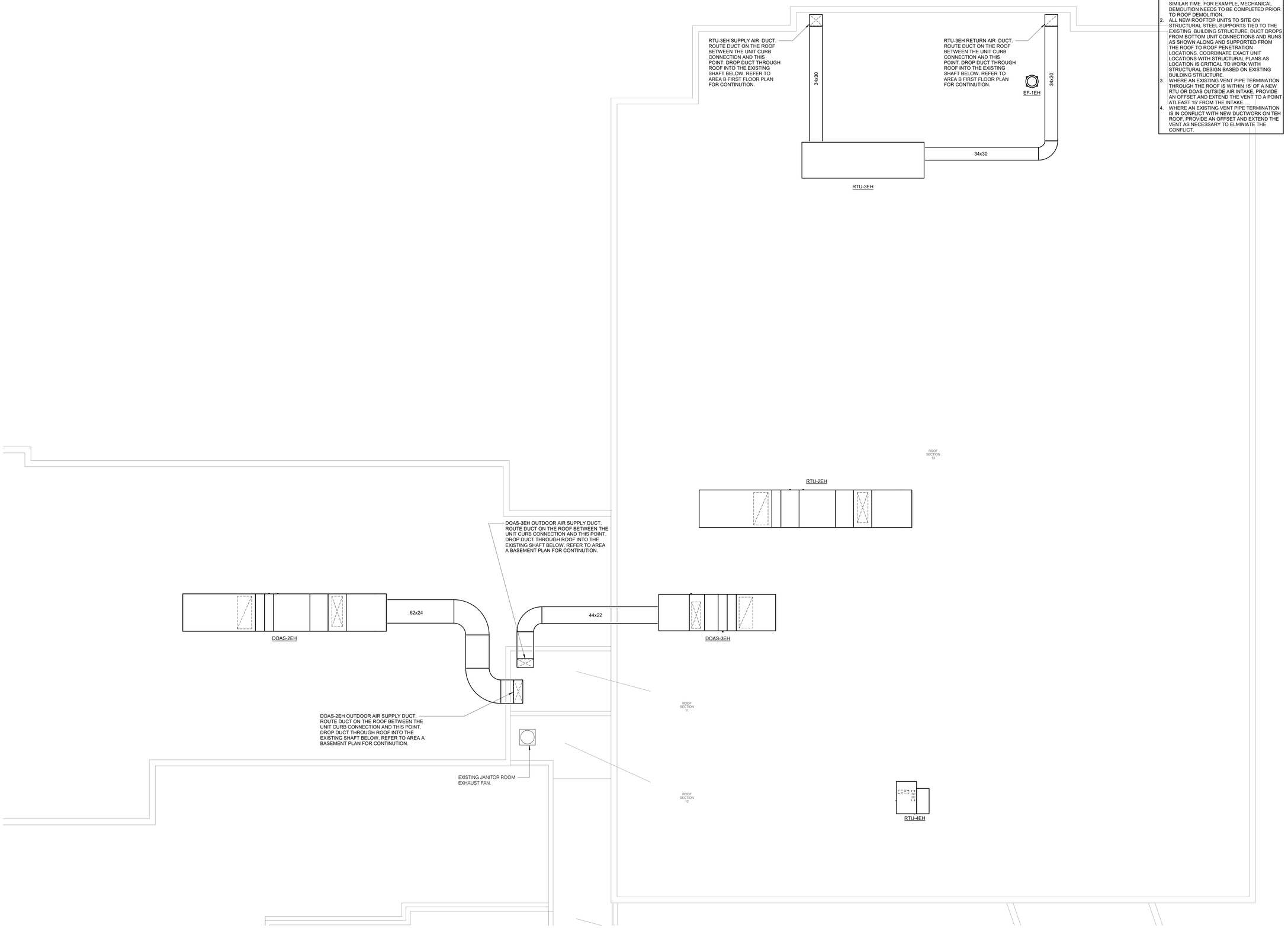
SCALE

Scale: **As indicated**

SHEET NUMBER

M204A

21002885.04 1/28/2022 1:09:17 PM ESSER HVAC Improvements - East High School



GENERAL SHEET NOTES:

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1 **ROOF - MECHANICAL - AREA B**
1/8" = 1'-0"

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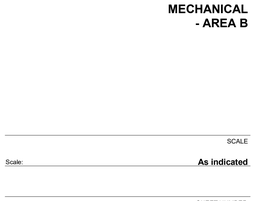

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SHEET TITLE
ROOF - MECHANICAL - AREA B

SCALE
Scale: **As indicated**

SHEET NUMBER
M204B

21002885.04 1/28/2022 1:09:23 PM ESSER HVAC Improvements - East High School

GENERAL SHEET NOTES:

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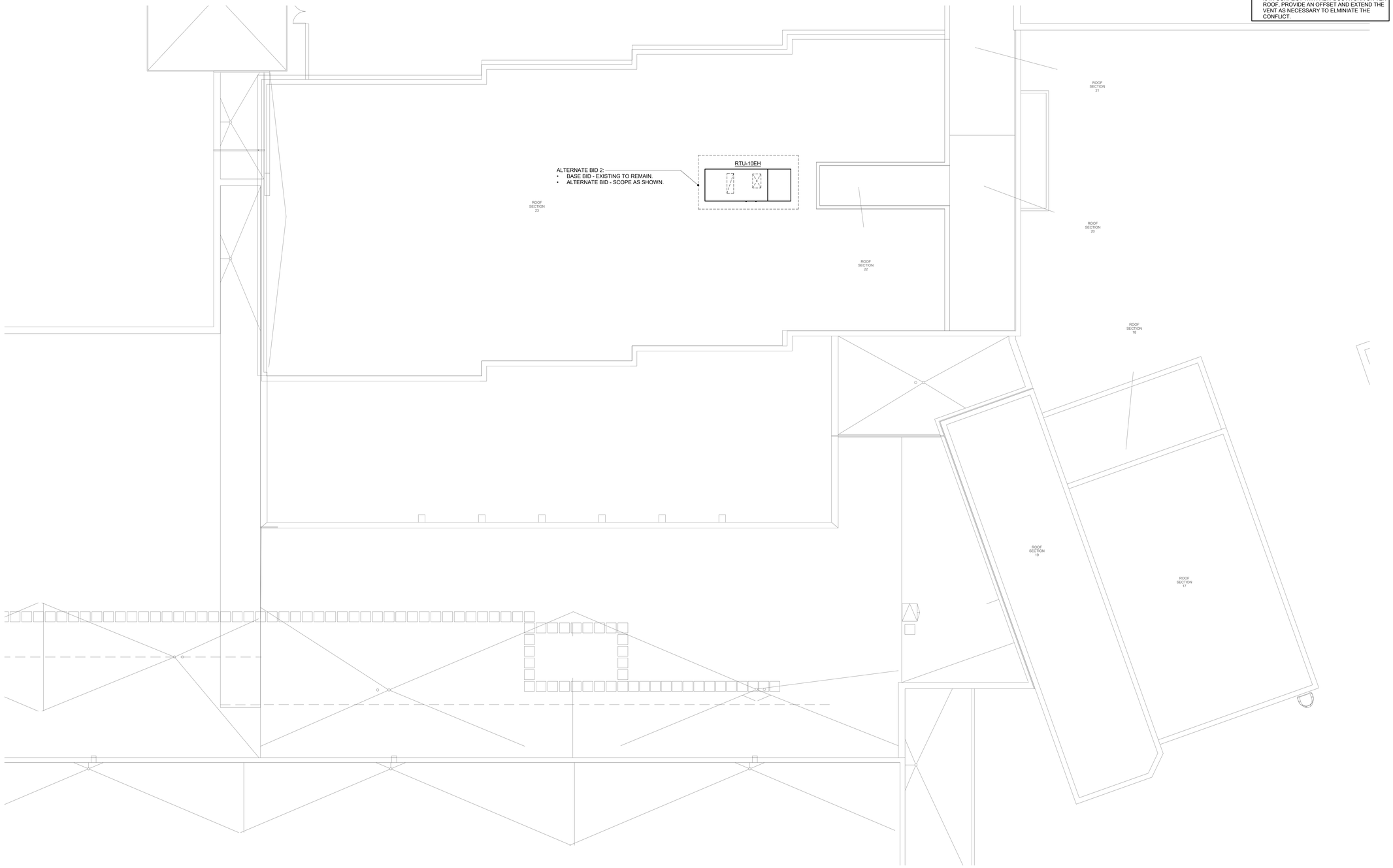

NORTH 1 **ROOF - MECHANICAL - AREA C**
1/8" = 1'-0"

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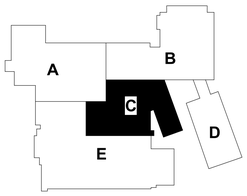

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Approved	**BRAGAR**

SHEET TITLE
ROOF - MECHANICAL - AREA C

SCALE
Scale: **As indicated**

SHEET NUMBER
M204C

21002885.04 1/28/2022 1:09:28 PM ESSER HVAC Improvements - East High School

GENERAL SHEET NOTES:

1. THE ENTIRE ROOF, WITH THE EXCEPTION OF THE NEWER WHITE ROOFING, WILL BE REPLACED DURING THE SAME CONSTRUCTION SCHEDULE AS THIS WORK BUT UNDER A SEPARATE CONTRACT. COORDINATE ALL ROOF MECHANICAL SCOPE WITH THE ROOFING CONTRACTOR. BIDDING WILL OCCUR AT A SIMILAR TIME, CONSTRUCTION SCHEDULE SHOULD BE COORDINATED TO OCCUR AT A SIMILAR TIME. FOR EXAMPLE, MECHANICAL DEMOLITION NEEDS TO BE COMPLETED PRIOR TO ROOF DEMOLITION.
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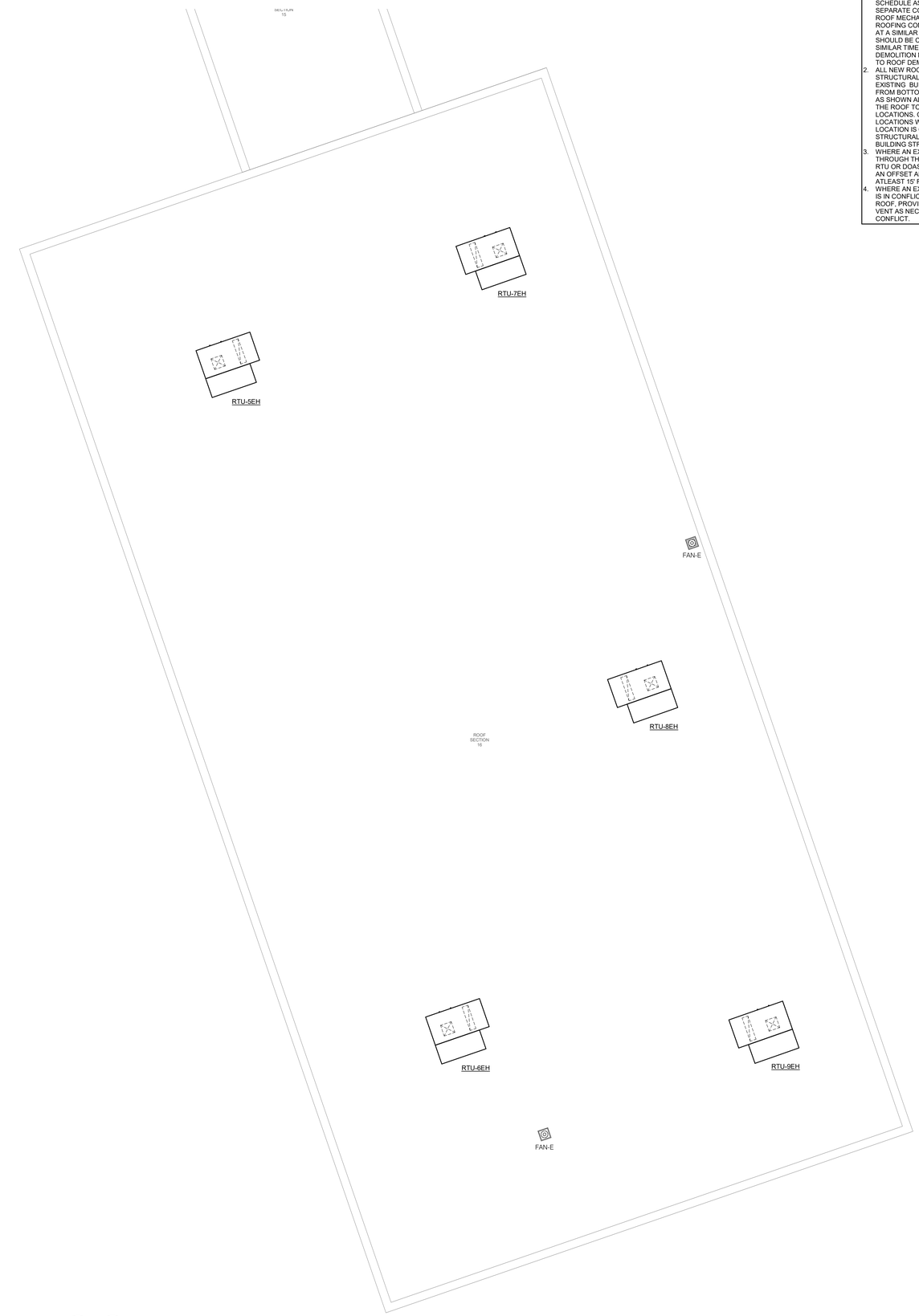

NORTH

1 **ROOF - MECHANICAL - AREA D**
1/8" = 1'-0"

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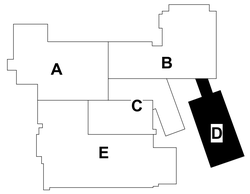

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REVISIONS

No.	Date	Revision / Issue

SHEET INFORMATION

Issue	**BID DOCUMENTS**
Date	**JANUARY 28, 2022**
Job Number	**21002885.04**
Drawn	**BRAGAR**
Checked	**ALIHAM**
Approved	**BRAGAR**

SHEET TITLE
ROOF - MECHANICAL - AREA D

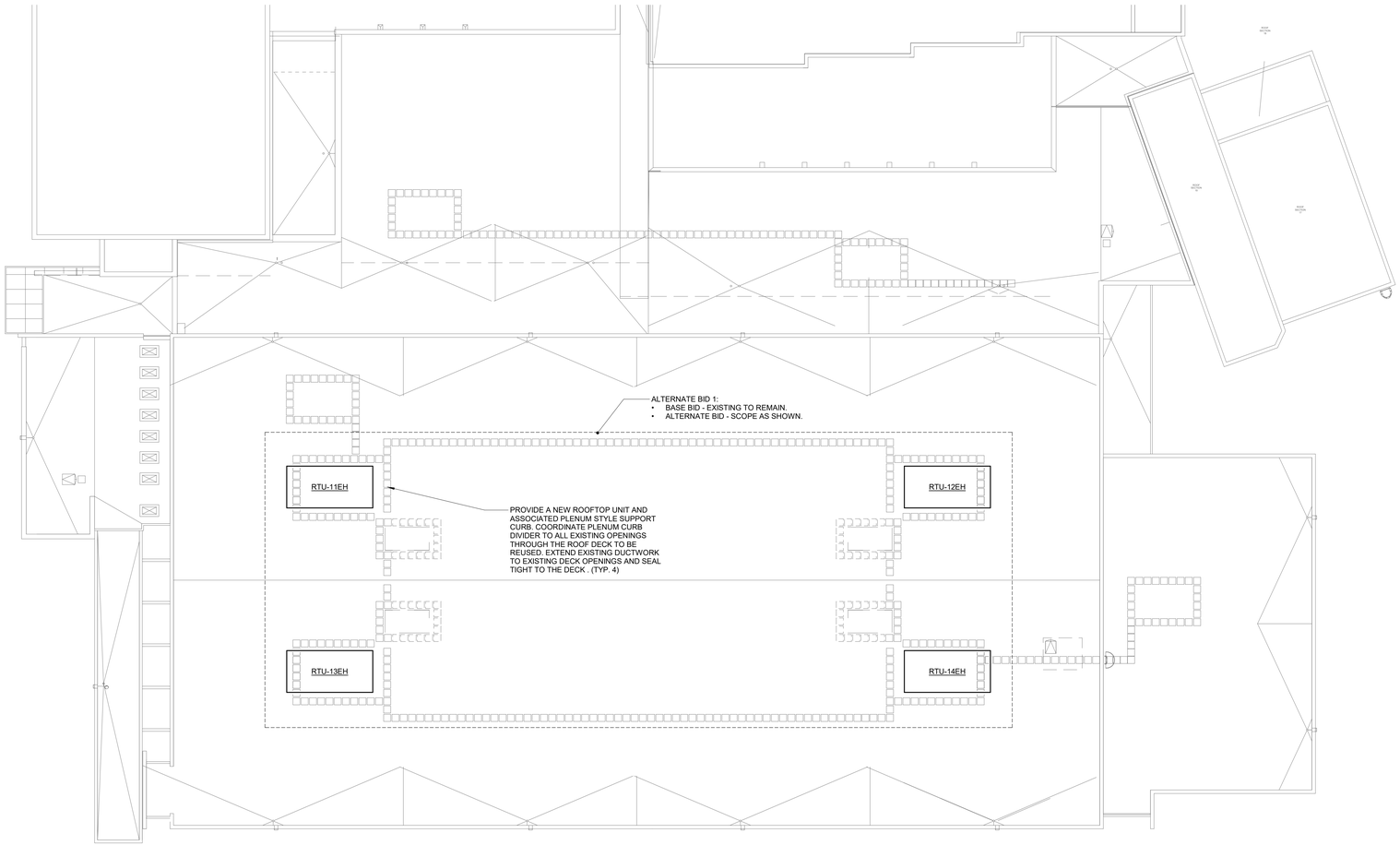
SCALE
Scale: **As indicated**

SHEET NUMBER
M204D

21002885.04 1/28/2022 1:09:32 PM ESSER HVAC Improvements - East High School

GENERAL SHEET NOTES:

1. ALL CHILLED AND HEATING WATER PIPING RUNNING VERTICALLY IS TO BE HIDDEN IN A CHASE. REFER TO DETAILS AND ARCHITECTURAL PLANS FOR CHASE INFORMATION.



NORTH

1 **ROOF - MECHANICAL - AREA E**

1/16" = 1'-0"

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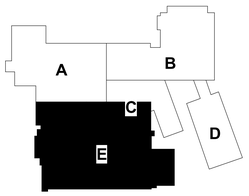
KEY PLAN



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SHEET TITLE

ROOF - MECHANICAL - AREA E

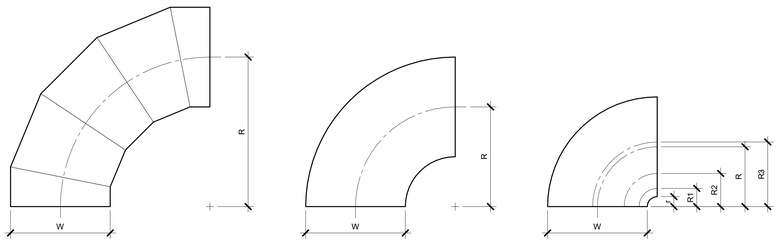
SCALE

Scale: **As indicated**

SHEET NUMBER

M204E

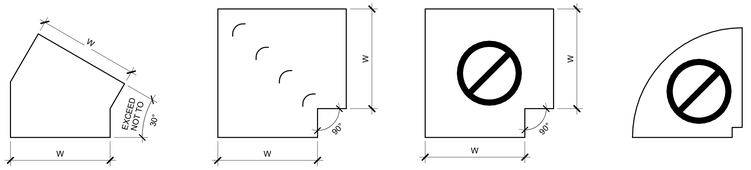
21002885.04 1/28/2022 1:09:37 PM ESSER HVAC Improvements - East High School



OVAL / ROUND RADIUS ELBOW SMOOTH OR 5 GORE (MINIMUM)
R/W = 1.5 (MINIMUM)

RECTANGULAR RADIUS ELBOW TYPE RE1
R/W = 1.0 (MINIMUM)
R/W < 1.0 SHALL BE TYPE RE3

RECTANGULAR RADIUS ELBOW WITH VANES TYPE RE3
REFER TO SMACNA HVAC SYSTEMS DUCT DESIGN MANUAL, FOURTH EDITION, SECTION 5.14 "SPLITTER VANES" AND SMACNA HVAC DUCT CONSTRUCTION STANDARDS, THIRD EDITION, FIGURES 4-2 AND 4-9 AND CHARTS 4-1 AND 4-1M. ELBOW SHALL HAVE THREE SPLITTER VANES AND r/W = 0.10 (R/W = 0.60) UNLESS NOTED OTHERWISE.



RECTANGULAR MITERED ELBOW TYPE RE6
USE ONLY AS PART OF OFFSETS AND TRANSITIONS PER FIGURE 4-7 TYPE 2 OR AS SHOWN ON DRAWINGS. OFFSETS ABOVE 30° SHALL BE TYPE RE1.

RECTANGULAR MITERED ELBOW WITH VANES TYPE RE2

RECTANGULAR / OVAL / ROUND MITERED ELBOW WITHOUT VANES TYPE RE4
NOT ALLOWED

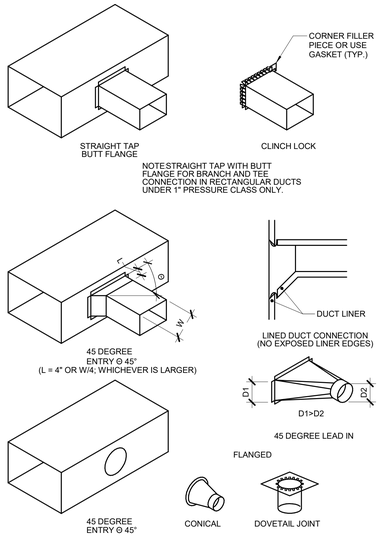
RECTANGULAR RADIUS ELBOW WITH SQUARE THROAT
NOT ALLOWED

1 ELBOW CONSTRUCTION

NO SCALE

NOTES:

1. BEAD, CROSSBREAK, AND REINFORCE FLAT SURFACES AS IN STRAIGHT DUCT.
2. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.
3. DEFAULT ELBOW SHALL BE TYPE "RE1".
4. ELBOW TYPES SHALL BE INSTALLED AS SHOWN AND NOT BE SUBSTITUTED WITHOUT PERMISSION. EXCEPTION: RE1 OR RE3 MAY BE SUBSTITUTED FOR RE2.

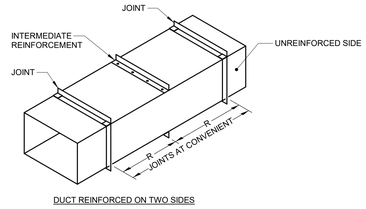


2 BRANCH CONNECTIONS

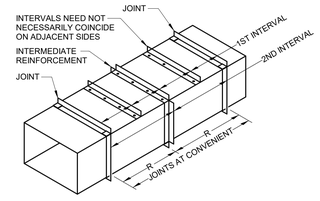
NO SCALE

NOTES:

1. DO NOT USE CONNECTIONS WITH SCOOPS.
2. FIT ALL CONNECTIONS TO AVOID VISIBLE OPENINGS AND SECURE THEM SUITABLY FOR THE PRESSURE CLASS.
3. ADDITIONAL MECHANICAL FASTENERS ARE REQUIRED FOR 4"W.G. AND OVER.
4. SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION.



DUCT REINFORCED ON TWO SIDES



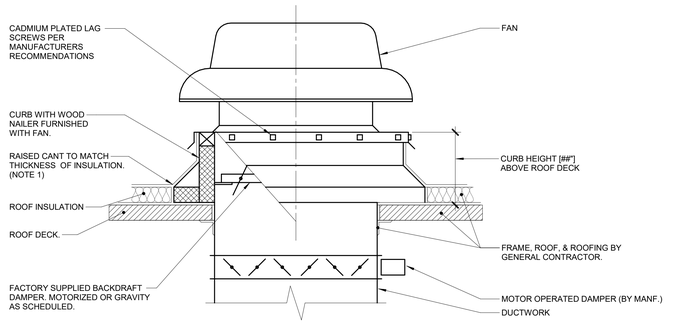
DUCT REINFORCED ON ALL SIDES

3 DUCT REINFORCEMENT DETAIL

NO SCALE

NOTES:

1. 'R' IS AN ALLOWABLE REINFORCEMENT INTERVAL.
2. TOP AND BOTTOM JOINTS MUST QUALIFY AS REINFORCEMENT
3. DUCT SIZES THAT ARE 19 INCHES (483 mm) AND OVER ARE 20 GAGE (1.00 mm) OR LESS, WITH MORE THAN 10 SQUARE FEET (0.93 SQUARE METER) OF UNBRACED PANEL AREA, SHALL BE CROSSBROKEN OR BEADED UNLESS THEY ARE LINED OR EXTERNALLY INSULATED. DUCTS THAT ARE OF HEAVIER GAGE, SMALLER DIMENSIONS, AND SMALLER PANEL AREA AND THOSE THAT ARE LINED OR EXTERNALLY INSULATED ARE NOT REQUIRED TO HAVE CROSSBREAKING OR BEADING.
4. SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION.

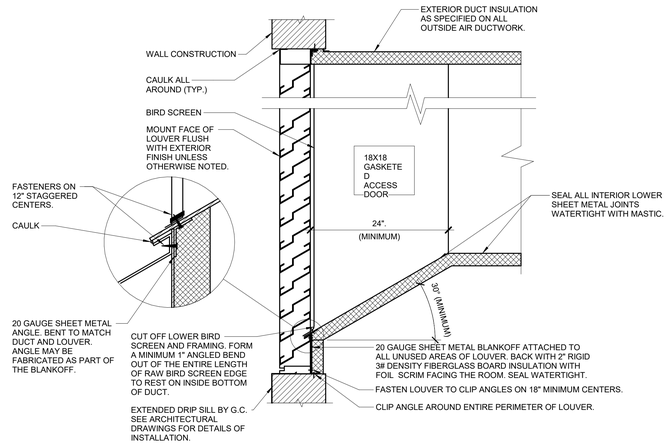


4 ROOF MOUNTED FAN/HOOD (BUILT-UP ROOF)

NO SCALE

NOTES:

1. ALL ROOF FLASHING SHALL BE PER ROOFING MANUFACTURERS RECOMMENDATIONS.

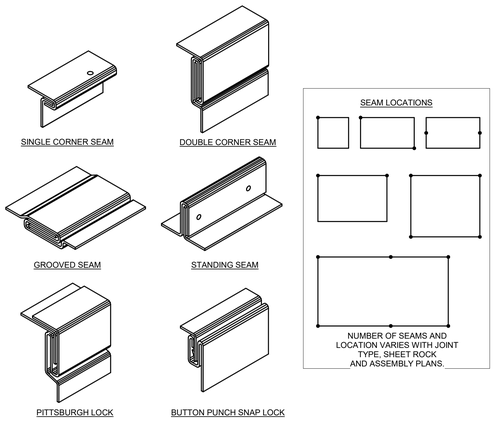


5 LOUVER INSTALLATION DETAIL

NO SCALE

NOTES:

1. SEAL ALL JOING ON BOTTOM INTERIOR SURFACE OF DUCT WITHIN 6'-0" OF THE LOUVER WATER TIGHT.
2. MOUNT BOTTOM OF INTAKE LOUVERS AT LEAST 40" ABOVE GRADE OR ROOF ELEVATION TO MINIMIZE CHANCES OF SNOW DRIFTING INTO THE LOUVER.
3. CAULK SHEETMETAL SCREWS WHERE THE PENETRATE METAL.



6 LONGITUDINAL SEAMS - RECTANGULAR DUCT

NO SCALE

NOTES:

1. SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION.

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SHEET TITLE

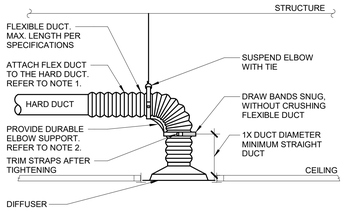
MECHANICAL DETAILS

SCALE

Scale: **12" = 1'-0"**

SHEET NUMBER

M400

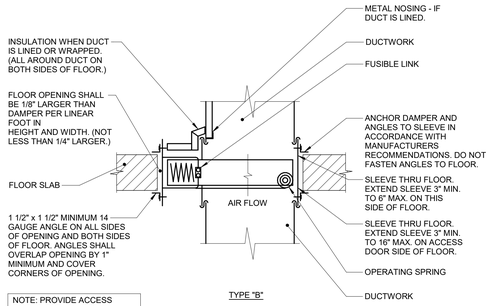


1 DIFFUSER CONNECTION DETAIL (W/ RADIUS FORMING ELBOW)

NO SCALE

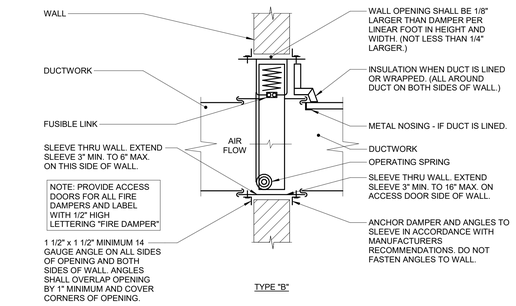
NOTES:

1. TO ATTACH FLEX DUCT TO THE HARD DUCT, TAPE THE INNER LINER TO THE HARD DUCT THEN ATTACH WITH TWO NYLON TIE WRAPS; ONE FOR THE INNER LINER AND ONE FOR THE OUTER SHELL. FOLD THE OUTER SHELL INSIDE ITSELF SO IT HAS NEAT EDGES PRIOR TO TIE WRAPPING.
2. DURABLE ELBOW SUPPORT ACCEPTABLE MANUFACTURER AND MODEL: HART AND COOLEY - SMARTFLOW, THERMAFLEX - FLEXFLOW, TITUS - FLEXRIGHT, OR APPROVED EQUAL.



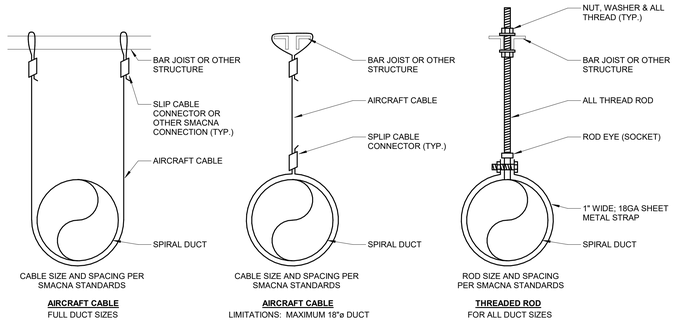
2 FIRE DAMPER THRU FLOOR DETAIL (TYPE B)

NO SCALE



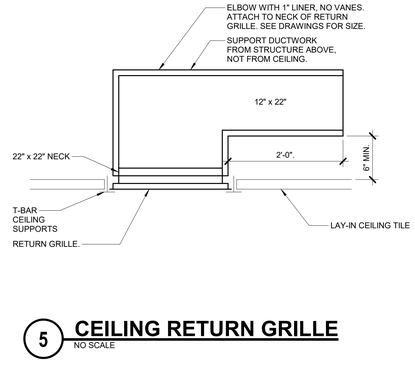
3 FIRE DAMPER THRU WALL DETAIL (TYPE B)

NO SCALE



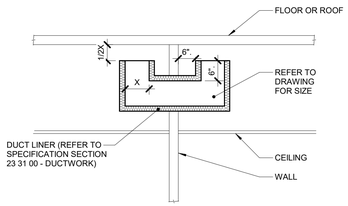
4 EXPOSED ROUND DUCT HANGERS

NO SCALE



5 CEILING RETURN GRILLE

NO SCALE

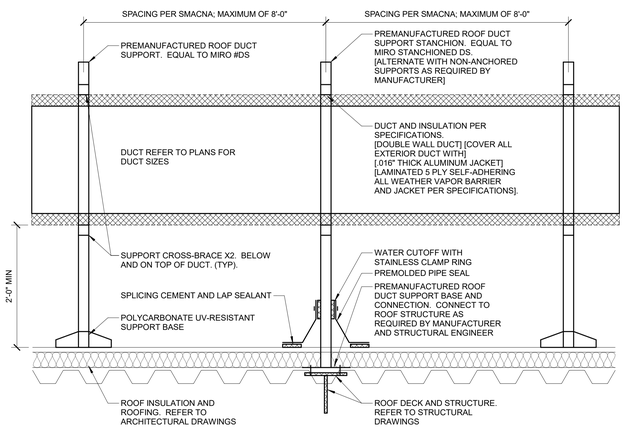


6 TRANSFER DUCT DETAIL (ENDS UP)

NO SCALE

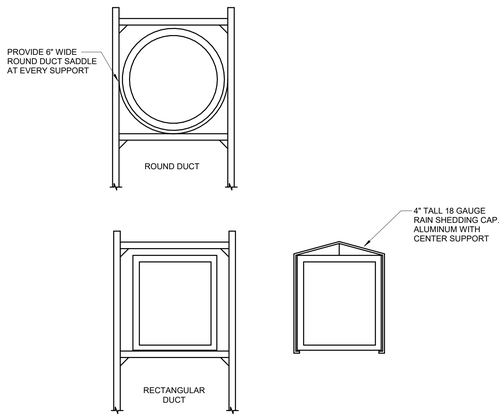
GENERAL INFORMATION:

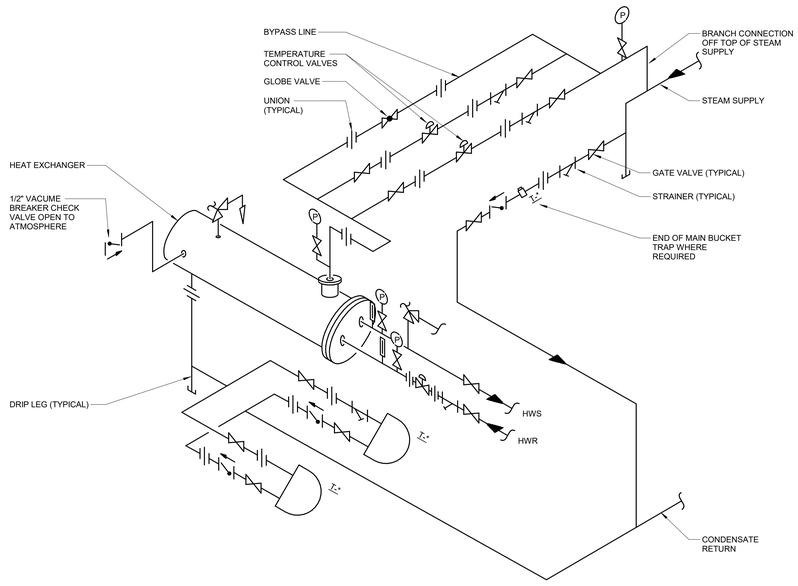
1. ADOPTED BUILDING CODE:	IBC-2019
2. BUILDING OCCUPANCY/RISK CATEGORY:	[IV, III, II OR I]
WIND DESIGN CRITERIA:	
1. MEAN ROOF HEIGHT	[##] FEET
2. BASIC WIND SPEED:	[###] MPH - 3 SEC GUST
3. EXPOSURE CATEGORY:	[B, C or D]
[SEISMIC DESIGN CRITERIA (WHERE REQUIRED)	
1. SOIL SITE CLASS:	[D] (ASSUMED)
2. RESPONSE ACCELERATION (0.2S), SDS:	[X.XXX] g
3. SEISMIC DESIGN CATEGORY:	[X]
4. SEISMIC COMPONENT IMPORTANCE FACTOR IP:	[1.0 OR 1.5]]



7 ROOF SUPPORT - EXPOSED DUCT (PREMANUFACTURED)

NO SCALE





8 MULTIPLE HEAT EXCHANGER PIPING DETAIL

NO SCALE

NOTES:

1. 1/3 - 2/3 VALVES ARE REQUIRED WHEN THE STEAM FLOW IS LARGER THAN THE CAPABILITY OF A 1 1/4" VALVE, AT THE PRESCRIBED PRESSURE DROP.
2. INSTALL A 1" INLET/OUTLET ASME "UV" RELIEF VALVE SET AT 125 PISG. PIPE TO A FLOOR DRAIN WITH AIR GAP. RELIEF VALVE TO BE ON EXCHANGER SIDE OF SHUT-OFF VALVE.
3. BALL VALVE IN PIPING 2" AND SMALLER. BUTTERFLY VALVE IN PIPING ABOVE 2" (TYPICAL).
4. GLOBE VALVE TO BE ONE HALF THE SIZE OF LARGER TEMPERATURE CONTROL VALVE.
5. LINE SIZE TWO-POSITION MOTORIZED VALVE FOR ISOLATION AND BALANCING.
6. CONTRACTOR MUST VERIFY NUMBER OF HEAT EXCHANGERS AND APPLY THIS DETAIL TO EACH HEAT EXCHANGER.

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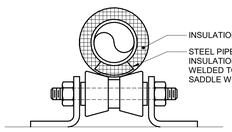
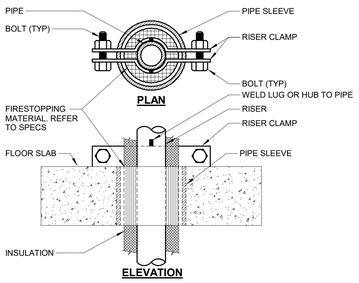
SHEET NUMBER

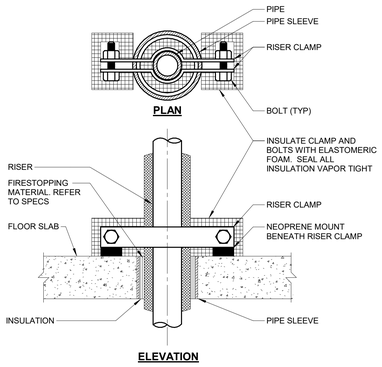
M401



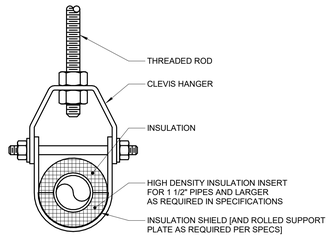
INSULATED HOT PIPE 4" AND LARGER



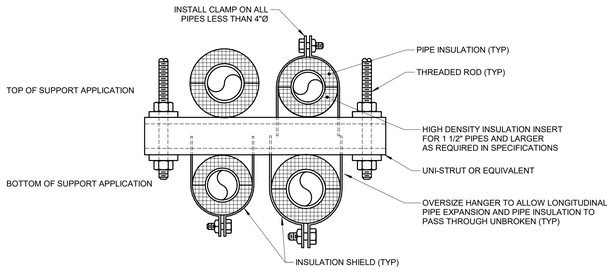
INSULATED HOT PIPE RISER SUPPORT



INSULATED COLD PIPE RISER SUPPORT



INSULATED COLD PIPE HANGER



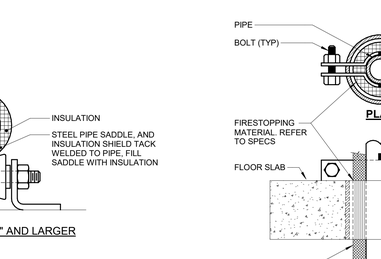
TRAPEZE HANGER

1 PIPE SUPPORT DETAIL

NO SCALE

NOTES:

1. REFER TO SPECIFICATION SECTIONS (SECTION 22 05 29- PLUMBING, SECTION 23 05 29-HVAC) & (SECTION 22 07 19- PLUMBING, SECTION 23 07 19-HVAC).

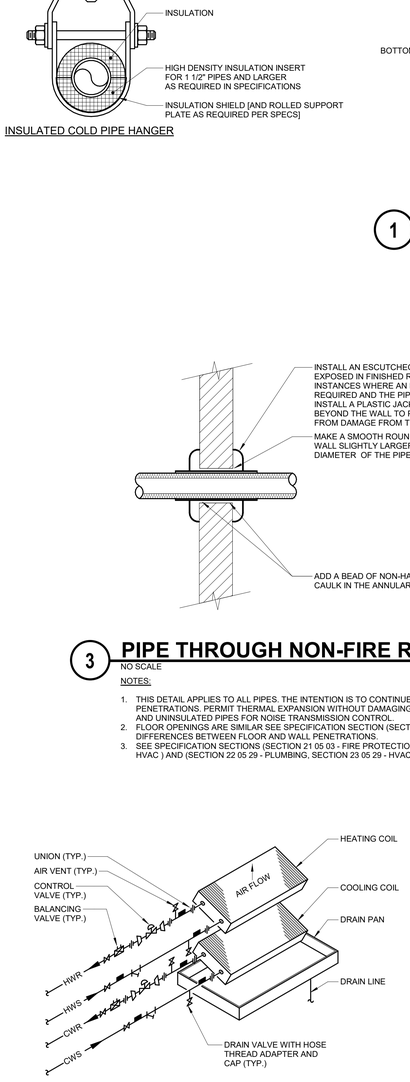


3 PIPE THROUGH NON-FIRE RATED WALL

NO SCALE

NOTES:

1. THIS DETAIL APPLIES TO ALL PIPES. THE INTENTION IS TO CONTINUE THE INSULATION AND VAPOR BARRIER THROUGH ALL PENETRATIONS. PERMIT THERMAL EXPANSION WITHOUT DAMAGING INSULATION, AND TO SEAL AIRTIGHT AROUND INSULATED AND UNINSULATED PIPES FOR NOISE TRANSMISSION CONTROL.
2. FLOOR OPENINGS ARE SIMILAR SEE SPECIFICATION SECTION (SECTION 22 05 29 - PLUMBING, SECTION 23 05 29 - HVAC) FOR DIFFERENCES BETWEEN FLOOR AND WALL PENETRATIONS.
3. SEE SPECIFICATION SECTIONS (SECTION 21 05 03 - FIRE PROTECTION, SECTION 22 05 03 - PLUMBING, SECTION 23 05 03 - HVAC) AND (SECTION 22 05 29 - PLUMBING, SECTION 23 05 29 - HVAC) FOR ADDITIONAL INFORMATION.



6 FAN COIL UNIT - 4-PIPE PIPING DIAGRAM AND RISER DETAILS

NO SCALE

NOTES:

1. CENTER FAN COIL UNITS ON WINDOW OPENINGS.

GYPSUM WALL CONSTRUCTION.

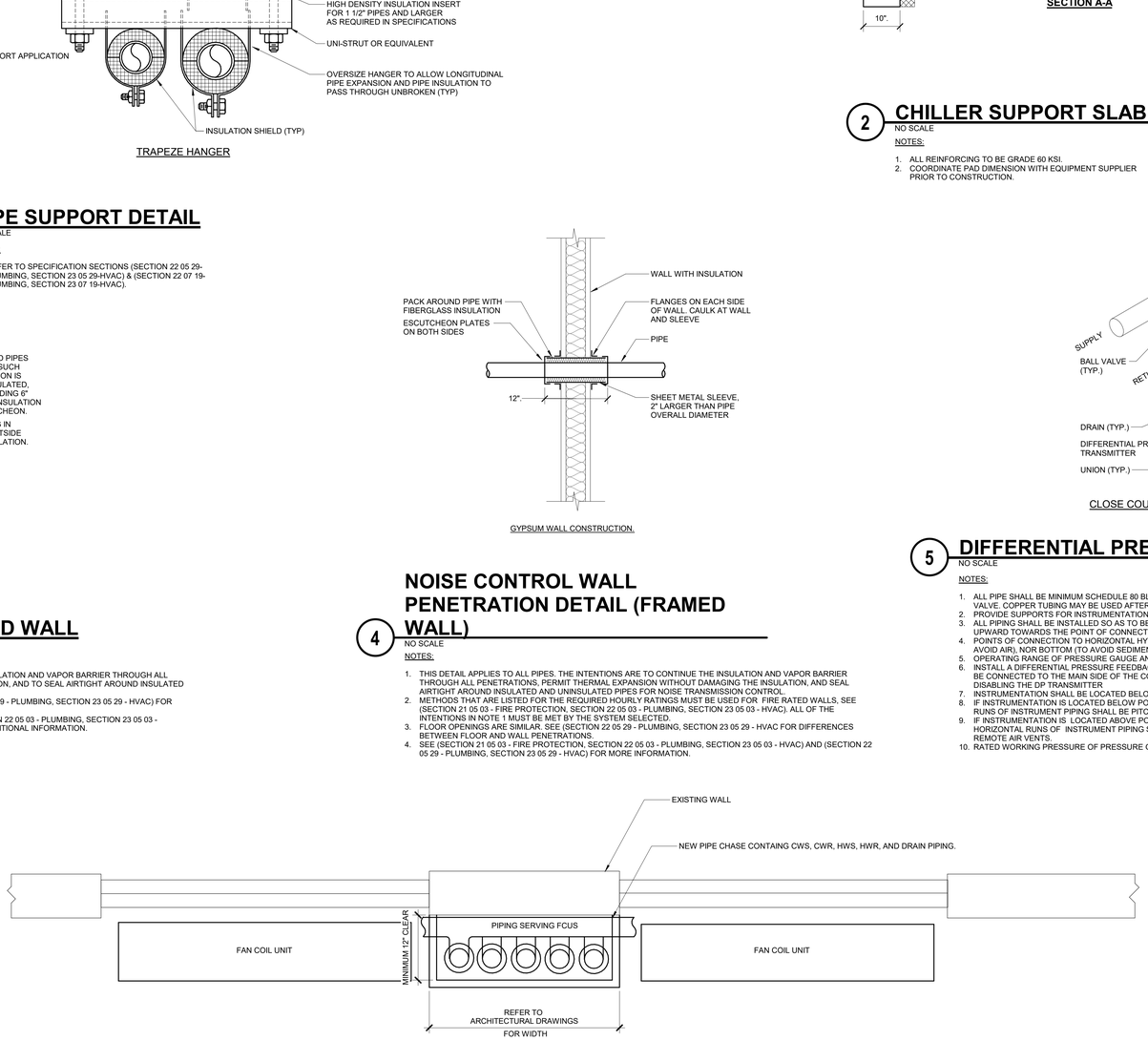
NOISE CONTROL WALL PENETRATION DETAIL (FRAMED WALL)

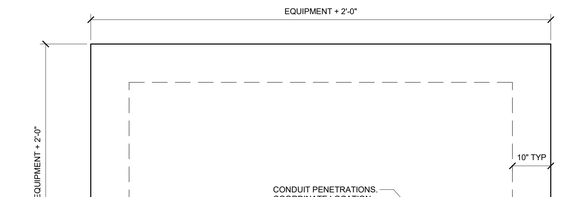
4

NO SCALE

NOTES:

1. THIS DETAIL APPLIES TO ALL PIPES. THE INTENTIONS ARE TO CONTINUE THE INSULATION AND VAPOR BARRIER THROUGH ALL PENETRATIONS, PERMIT THERMAL EXPANSION WITHOUT DAMAGING THE INSULATION, AND SEAL AIRTIGHT AROUND INSULATED AND UNINSULATED PIPES FOR NOISE TRANSMISSION CONTROL.
2. METHODS THAT ARE LISTED FOR THE REQUIRED HOURLY RATINGS MUST BE USED FOR FIRE RATED WALLS, SEE (SECTION 21 05 03 - FIRE PROTECTION, SECTION 22 05 03 - PLUMBING, SECTION 23 05 03 - HVAC). ALL OF THE INTENTIONS IN NOTE 1 MUST BE MET BY THE SYSTEM SELECTED.
3. FLOOR OPENINGS ARE SIMILAR. SEE (SECTION 22 05 29 - PLUMBING, SECTION 23 05 29 - HVAC FOR DIFFERENCES BETWEEN FLOOR AND WALL PENETRATIONS.
4. SEE (SECTION 21 05 03 - FIRE PROTECTION, SECTION 22 05 03 - PLUMBING, SECTION 23 05 03 - HVAC) AND (SECTION 22 05 29 - PLUMBING, SECTION 23 05 29 - HVAC) FOR MORE INFORMATION.



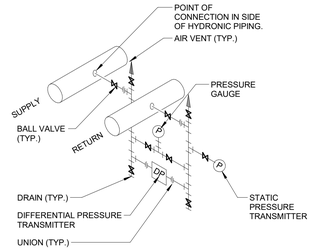


2 CHILLER SUPPORT SLAB (W/ FOOTINGS)

NO SCALE

NOTES:

1. ALL REINFORCING TO BE GRADE 60 KSI.
2. COORDINATE PAD DIMENSION WITH EQUIPMENT SUPPLIER PRIOR TO CONSTRUCTION.



CLOSE COUPLED INSTRUMENTATION PIPING DETAIL

5 DIFFERENTIAL PRESSURE INSTRUMENTATION PIPING

NO SCALE

NOTES:

1. ALL PIPE SHALL BE MINIMUM SCHEDULE 80 BLACK STEEL BETWEEN POINT OF CONNECTION TO EACH MAIN AND FIRST ISOLATION VALVE. COPPER TUBING MAY BE USED AFTER ISOLATION VALVES.
2. PROVIDE SUPPORTS FOR INSTRUMENTATION AND/OR PIPING AS REQUIRED FOR RIGID INSTALLATION.
3. ALL PIPING SHALL BE INSTALLED SO AS TO BE SELF-VENTING. HORIZONTAL RUNS OF INSTRUMENT PIPING SHALL BE PITCHED UPWARD TOWARDS THE POINT OF CONNECTION.
4. POINTS OF CONNECTION TO HORIZONTAL HYDRONIC PIPING SHALL BE IN SIDE OF THE PIPING (AS SHOWN), NEITHER ON TOP, (TO AVOID AIR), NOR BOTTOM (TO AVOID SEDIMENT).
5. OPERATING RANGE OF PRESSURE GAUGE AND EACH TRANSMITTER SHALL BE SELECTED TO MAXIMIZE RESOLUTION
6. INSTALL A DIFFERENTIAL PRESSURE FEEDBACK TRANSMITTER WHERE SHOWN ON PLAN VIEW., THE TRANSMITTER PIPING SHALL BE CONNECTED TO THE MAIN SIDE OF THE COIL ISOLATION VALVES TO ALLOW THE COIL TO BE TAKEN OUT OF SERVICE WITHOUT DISABLING THE DP TRANSMITTER
7. INSTRUMENTATION SHALL BE LOCATED BELOW POINTS OF CONNECTION TO HYDRONIC PIPING IF POSSIBLE (AS SHOWN).
8. IF INSTRUMENTATION IS LOCATED BELOW POINTS OF CONNECTION TO HYDRONIC PIPING (PREFERRED/ SHOWN), HORIZONTAL RUNS OF INSTRUMENT PIPING SHALL BE PITCHED UPWARD TOWARD POINTS OF CONNECTION.
9. IF INSTRUMENTATION IS LOCATED ABOVE POINTS OF CONNECTION TO HYDRONIC PIPING (NOT PREFERRED/ NOT SHOWN), HORIZONTAL RUNS OF INSTRUMENT PIPING SHALL BE PITCHED UPWARD AWAY FROM POINTS OF CONNECTION AND TOWARD REMOTE AIR VENTS.
10. RATED WORKING PRESSURE OF PRESSURE GAUGE AND SENSOR SHALL EQUAL OR EXCEED MAXIMUM SYSTEM PRESSURE.

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REVISIONS

No.	Date	Revision / Issue

SHEET INFORMATION

Issue	BID DOCUMENTS
Date	JANUARY 28, 2022
Job Number	21002885.04
Drawn	BRAGAR
Checked	ALIHAM
Approved	BRAGAR

SHEET TITLE

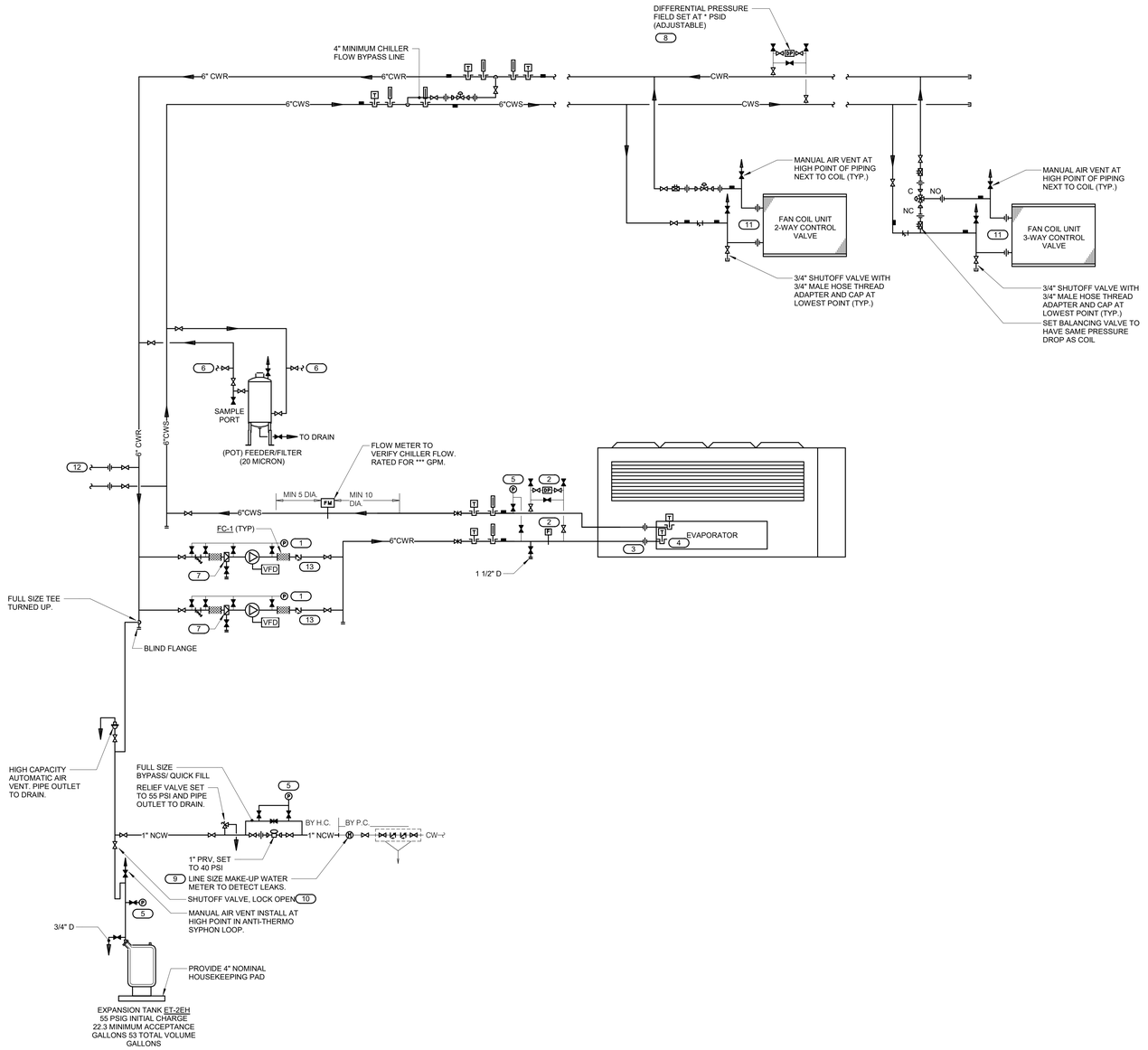
MECHANICAL DETAILS

SCALE

Scale: 12" = 1'-0"

SHEET NUMBER

M402



KEYNOTES

1. PRESSURE GAUGE WITH SNUBBER PER SPECIFICATIONS. MOUNT ON WALL, STAND, OR VIBRATION-FREE PIPE BRACKET ABOVE PUMP. INSTALL FLEXIBLE COPPER TUBING TO PIPING CONNECTIONS TO AVOID VIBRATION DAMAGE TO THE GAUGE. GAUGE SHALL BE GLYCERIN FILLED. PREFERRED CONNECTION LOCATIONS ARE:
   A. JUST UPSTREAM OF STRAINER
   B. GAUGE PORT ON SUCTION DIFFUSER OR BETWEEN STRAINER & PUMP INLET
   C. GAUGE TAPPING ON PUMP INLET FLANGE
   D. GAUGE TAPPING ON PUMP OUTLET FLANGE.
2. THERMAL DISPERSION OR DIFFERENTIAL PRESSURE FLOW SWITCH FURNISHED BY CHILLER MANUFACTURER. FIELD INSTALLED.
3. GROOVED COUPLING/FLANGED CONNECTIONS ARRANGED TO PERMIT PULLING OF TUBES WITH REMOVAL OF MINIMUM AMOUNT OF PIPE. MINIMUM OF THREE FLEXIBLE GROOVED COUPLINGS OR FC-1 FOR VIBRATION ISOLATION. REFER TO SPECIFICATIONS.
4. TEMPERATURE SENSORS INTERNAL TO CHILLER. MONITOR THRU DDC OR PROVIDE SEPARATE SENSORS.
5. PRESSURE GAUGES SHALL BE GLYCERIN FILLED.
6. TO CHEMICAL FEED PIPING, BY CHEMICAL SUPPLIER. VERIFY NUMBER, SIZE, & LOCATION OF CONNECTIONS WITH MANUFACTURER.
7. REMOVE & RETAIN TEMPORARY STRAINER FROM SUCTION DIFFUSER AT END OF CONSTRUCTION. PROVIDE SUPPORT LEG AS REQUIRED BY MANUFACTURER.
8. DIFFERENTIAL PRESSURE SENSOR USED TO CONTROL VFD'S. PIPE PER MANUFACTURER'S RECOMMENDATIONS. VERIFY FINAL LOCATION WITH ENGINEER.
9. CHILLED WATER MAKE-UP WATER METER. MONITORED BY BUILDING AUTOMATION SYSTEM.
10. PROVIDE SIGN "DO NOT SHUT DURING SYSTEM OPERATION".
11. ARRANGE PIPING SO COILS CAN BE REMOVED WITHOUT REMOVING PIPING ABOVE THE UNIONS OR FLANGES. PIPE LOCATION MUST NOT RESTRICT OPENING OF ACCESS DOORS.
12. PROVIDE COUPON TEST RACK AS INDICATED FOR EACH SYSTEM AS SHOWN.
13. TRIPLE DUTY OR BALANCING VALVES ARE NOT PERMITTED ON VARIABLE FLOW SYSTEMS. USE FLOW METER FOR PUMP FLOW TESTING.

FLOW DIAGRAM SYMBOLS LIST

SYMBOL:	DESCRIPTION:
CW	COLD WATER - POTABLE
CWR	CHILLED WATER RETURN
CWS	CHILLED WATER SUPPLY
D	DRAIN LINE
NCW	NON-POTABLE COLD WATER
	PITCH PIPE IN DIRECTION
	DIRECTION OF FLOW IN PIPE
	UNION/FLANGE
	SHUTOFF VALVE NORMALLY OPEN
	SHUTOFF VALVE NORMALLY CLOSED
	VENTURI VALVE
	THROTTLING VALVE
0.5	BALANCING VALVE (NO. INDICATES GPM)
	AUTOMATIC DRAIN VALVE
	CONTROL VALVE (THREE-WAY)
	CONTROL VALVE (TWO-WAY)
	SOLENOID/TWO POSITION VALVE
	CHECK VALVE
	SAFETY/RELIEF VALVE
	PRESSURE REDUCING VALVE (LIQUID/GAS)
	"WYE" - STRAINER
	"WYE" - STRAINER W/SHUTOFF VALVE AND HOSE CONNECTION WITH CAP
	FLEXIBLE CONNECTION
	PRESSURE/TEMPERATURE TEST PLUG
	REDUCER - REFERENCE SPECIFICATION FOR CONCENTRIC/ECCENTRIC AND FOT/FOB
M	METER
P	PRESSURE GAUGE (FURNISHED WITH BALL VALVE)
	SUCTION DIFFUSER WITH SUPPORT FOOT
	AUTOMATIC AIR VENT
	MANUAL AIR VENT W/ BALL VALVE
	DRAIN WITH HOSE CONNECTION, CAP & BALL VALVE
T	TEMPERATURE SENSOR WITH WELL
	THERMOMETER WITH WELL (FILLED TYPE)
F	FLOW SWITCH
FM	FLOW METER

1 CHILLED WATER FLOW DIAGRAM

NO SCALE

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REVISIONS

No.	Date	Revision / Issue

SHEET INFORMATION

Issue	BID DOCUMENTS
Date	JANUARY 28, 2022
Job Number	21002885.04
Drawn	BRAGAR
Checked	ALIHAM
Approved	BRAGAR

SHEET TITLE

CHILLED WATER FLOW DIAGRAM

SCALE

Scale: 12" = 1'-0"

SHEET NUMBER

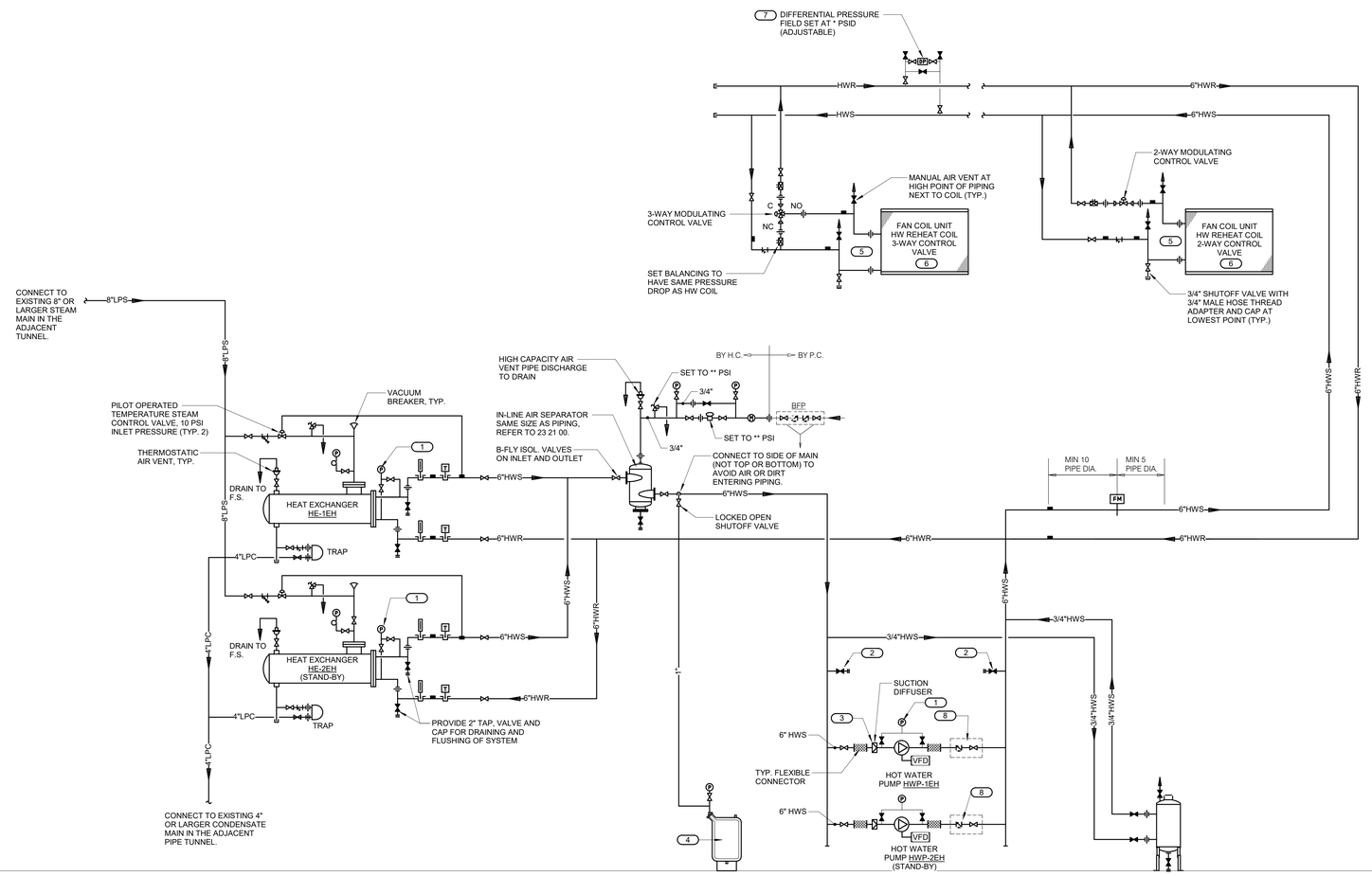
M500

STEAM/HEATING WATER FLOW DIAGRAM SYMBOL LIST

SYMBOL:	DESCRIPTION:
HWR	HEATING WATER RETURN
HWS	HEATING WATER SUPPLY
LPS	LOW PRESSURE STEAM
LPC	LOW PRESSURE CONDENSATE
PC	PUMPED CONDENSATE
CW	COLD WATER - POTABLE
	PITCH PIPE IN DIRECTION
	DIRECTION OF FLOW IN PIPE
	FLEXIBLE CONNECTION
	PRESSURE/TEMPERATURE TEST PLUG
	REDUCER - REFERENCE SPECIFICATION FOR CONCENTRIC/ECCENTRIC AND FOT/FOB
M	METER
P	PRESSURE GAUGE (FURNISHED WITH BALL VALVE)
	SUCTION DIFFUSER WITH SUPPORT FOOT
	AUTOMATIC AIR VENT
	MANUAL AIR VENT W/ BALL VALVE
	DRAIN WITH HOSE CONNECTION, CAP & BALL VALVE
FS	FLOW SWITCH
FM	FLOW METER
T	TEMPERATURE SENSOR WITH WELL
	THERMOMETER WITH WELL (FILLED TYPE)
	UNION/FLANGE
	SHUTOFF VALVE NORMALLY OPEN
	SHUTOFF VALVE NORMALLY CLOSED
	THROTTLING VALVE
	BALANCING VALVE
	CONTROL VALVE (TWO-WAY)
	CONTROL VALVE (THREE-WAY)
	CHECK VALVE
	SAFETY/RELIEF VALVE
	PRESSURE REDUCING VALVE (LIQUID/GAS)
	"WYE" - STRAINER
	"WYE" - STRAINER W/SHUTOFF VALVE AND HOSE CONNECTION WITH CAP

KEYNOTES

1. PRESSURE GAUGE WITH SNUBBER PER SECTION 23 09 13. INSTALL WITH MOUNTING ON WALL, STAND, OR VIBRATION-FREE PIPE ABOVE PUMP FLEXIBLE CONNECTOR. INSTALL FLEXIBLE COPPER TUBING TO PIPING CONNECTIONS TO AVOID VIBRATION DAMAGE TO THE GAUGE. PREFERRED CONNECTION LOCATIONS ARE: (a) JUST UPSTREAM OF STRAINER, (b) GAUGE PORT ON SUCTION DIFFUSER OR BETWEEN STRAINER AND PUMP INLET (c) GAUGE TAPPING ON PUMP INLET FLANGE. (d) GAUGE TAPPING ON PUMP OUTLET FLANGE.
2. PROVIDE 2 1/2" OR LARGER CONNECTIONS FOR CONNECTION OF FIRE HOSES FOR FLUSHING AND CLEANING OF SYSTEM, IF CHEMICAL CLEANING IS NOT USED.
3. REMOVE & RETAIN TEMPORARY STRAINER FROM SUCTION DIFFUSER AT END OF CONSTRUCTION. PROVIDE SUPPORT LEG AS REQUIRED BY MANUFACTURER.
4. TANK SIZE AS PER BLADDER TANK MANUFACTURER'S RECOMMENDATIONS BUT NOT SMALLER THAN CONNECTION TO TANK.
5. ARRANGE PIPING SO COILS CAN BE REMOVED WITHOUT REMOVING PIPING ABOVE THE UNIONS OR FLANGES. PIPE LOCATION MUST NOT RESTRICT OPENING OF ACCESS DOORS.
6. THE NUMBER OF COILS MAY VARY BETWEEN MANUFACTURERS. CONTRACTOR SHALL SIZE PIPING TO EACH COIL SECTION AT NOT OVER 4 FEET OF PRESSURE DROP PER 100 FEET OF PIPE AND PROVIDE ADDITIONAL UNIONS, VALVES, AND P/T PLUGS AS SHOWN FOR COILS.
7. DIFFERENTIAL PRESSURE SENSOR/TRANSMITTER USED TO MODULATE THE PUMP VARIABLE FREQUENCY DRIVE. CONNECT TO MAIN HW PIPING PER MANUFACTURER'S RECOMMENDATIONS. LOCATE 2/3 OF THE TOTAL PIPE LENGTH FROM TTHE PUMPS, FINAL LOCATION TO BE FIELD-VERIFIED WITH THE MEOR.
8. TRIPLE DUTY OR BALANCING VALVES ARE NOT PERMITTED ON VARIABLE VOLUME SYSTEMS.



1 HEATING WATER FLOW DIAGRAM - HEAT EXCHANGER VARIABLE/PRIMARY

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REVISIONS

No.	Date	Revision / Issue

SHEET INFORMATION

Issue	**BID DOCUMENTS**
Date	**JANUARY 28, 2022**
Job Number	**21002885.04**
Drawn	**BRAGAR**
Checked	**ALIHAM**
Approved	**BRAGAR**

SHEET TITLE

STEAM TO HOT WATER FLOW DIAGRAM

SCALE

Scale: **12" = 1'-0"**

SHEET NUMBER

M501

AIR COOLED CHILLER SCHEDULE

NOTES:
1.SEE SPECIFICATION SECTION 23 64 30 FOR ADDITIONAL REQUIREMENTS.

				CAPACITY/PERFORMANCE							EVAPORATOR PERFORMANCE					MAXIMUM ALLOWABLE SOUND POWER IN DB RE 10^{-12} WATTS OCTAVE BAND CENTER FREQUENCY										ELECTRICAL									MAX. DIMENSIONS			WEIGHT				
						MIN. EER AT % LOAD (BASED ON AIR AND WATER CONDITIONS AS LISTED.)																								DISCONNECT		CONTROLLER/ STARTER										
TAG NAME	REFRIGERANT	AMBIENT TEMP °F	MIN. OPERATING AMBIENT TEMP. °F	DESIGN TONS	STAGES OF UNLOADING	100	70	50	20	IPLV	EWT °F	LWT °F	GPM	MAX. PRESSURE DROP (FT. W.G.)	FOULING FACTOR	63	125	250	500	1000	2000	4000	NUMBER OF COMPRESSORS	COMPRESSOR TYPE	NO. OF POWER CONNECTIONS	VOLTAGE	PHASES	FLA	MCA	MOCP AMPS	BY (NOTE A)	TYPE (NOTE B)	BY (NOTE A)	TYPE (NOTE C)	SCCR	LENGTH	WIDTH	HEIGHT	DRY	OPERATING	MANUFACTURER	MODEL	NOTES
CH-1EH	R134A	95 °F	32 °F	262	MODULATING	10.9	15.55	19.17	22.32	17.73	59 °F	43 °F	390 GPM	6.7 FT	0.0001	106	103	99	97	95	89	82	2	SCREW	1	480 V	3	411.4 A	472 A	600 A	MFR	NF	MFR	NOTE 1	65000	372"	88"	100"	18051	18939	DAIKIN APPLIED	AWV018B	NOTE 1

FAN COIL UNIT SCHEDULE - HYDRONIC

NOTES:
1.PROVIDE WITH 1" THROWAWAY TYPE MERV 8 FILTER.
2. COORDINATE CABINET COLOR SELECTION WITH ARCHITECT.
3. PROVIDE WITH REAR INLET RETURN AND FRONT DOUBLE DEFLECTION DISCHARGE GRILLE.
4. UNITS SHALL BE SELECTED TO OPERATE AT 140F-110F HEATING WATER TEMPERATURES TO ACCOMODATE FUTURE CONDENSING BOILERS. HEATING WATER SYSTEM TEMPERATURES WILL OPERATE AT 180F-150F INITIALLY.
5. PROVIDE WITH CONDENSATE PUMP FOR ALL UNITS BELOW GRADE WHERE GRAVITY DRAINING OF CONDENSATE IS NOT POSSIBLE.
6. PROVIDE WITH CONTROL VALVE AND ACCESS SECTION WITH ACCESS DOOR FOR VALVE ACCESS.

			COOLING COIL					HEATING COIL (NOTE 4)					ELECTRICAL				ELECTRICAL				MAX. DIMENSIONS					
																	DISCONNECT		CONTROLLER/ STARTER							
TAG NAME	CFM	EXT. S.P. IN W.C.	TOTAL MBH	GPM	EWT °F	LWT °F	W.P.D. FT. HD	TOTAL MBH	GPM	EWT °F	LWT °F	W.P.D. FT. HD	VOLTAGE	PHASES	MINIMUM CIRCUIT AMPACITY	MAXIMUM OVERCURRENT PROTECTION	BY (NOTE A)	TYPE (NOTE B)	TYPE (NOTE A)	SCCR	LENGTH	WIDTH	HEIGHT	MANUFACTURER	MODEL	NOTES
FCU-02	265	0.0	5.4	0.7	43	59	0.21	6.8	0.5	140	110	0.17	120	1	2.8 A	15 A	MFR	NF	THERMOSTAT	0	35	10	27.6	DAIKIN APPLIED	FCVS102	NOTE 1, 2, 6
FCU-02H	305	0.0	7.1	0.9	43	59	0.36	11.3	0.8	140	110	0.83	120	1	2.2 A	15 A	MFR	NF	THERMOSTAT	0	47.6	25	14	DAIKIN APPLIED	FCHC202	NOTE 1, 2, 3, 6
FCU-03	395	0.0	7.1	0.9	43	59	0.39	11.8	0.8	140	110	0.54	120	1	3.2 A	15 A	MFR	NF	THERMOSTAT	0	40.5	10	27.6	DAIKIN APPLIED	FCVS103	NOTE 1, 2, 6
FCU-03H	390	0.0	8	1.0	43	59	0.45	13.5	0.9	140	110	1.14	120	1	2.2 A	15 A	MFR	NF	THERMOSTAT	0	47.6	25	14	DAIKIN APPLIED	FCHC203	NOTE 1, 2, 3, 6
FCU-04	435	0.0	9.6	1.2	43	59	0.75	15.5	1.0	140	110	0.99	120	1	5.6 A	15 A	MFR	NF	THERMOSTAT	0	46	10	27.6	DAIKIN APPLIED	FCVS104	NOTE 1, 2, 6
FCU-06	570	0.0	10.5	1.3	43	59	0.87	20	1.3	140	110	1.94	120	1	5.2 A	15 A	MFR	NF	THERMOSTAT	0	57	10	27.6	DAIKIN APPLIED	FCVS106	NOTE 1, 2, 6
FCU-08	855	0.0	21.4	2.7	43	59	4.09	29.5	2.0	140	110	4.34	120	1	6 A	15 A	MFR	NF	THERMOSTAT	0	62.5	10	27.6	DAIKIN APPLIED	FCVS108	NOTE 1, 2, 6
FCU-08H	920	0.0	22.6	2.8	43	59	4.48	31.3	2.1	140	110	7.84	120	1	5.3 A	15 A	MFR	NF	THERMOSTAT	0	69.6	25	14	DAIKIN APPLIED	FCHC208	NOTE 1, 2, 3, 6
FCU-10	1065	0.0	25.5	3.2	43	59	2.67	38	2.6	140	110	8.06	120	1	8.5 A	15 A	MFR	NF	THERMOSTAT	0	73.5	10	27.6	DAIKIN APPLIED	FCVS110	NOTE 1, 2, 6
FCU-12	1265	0.0	30	3.7	43	59	4.05	45.4	3.0	140	110	12.65	120	1	9.2 A	15 A	MFR	NF	THERMOSTAT	0	84.5	10	27.6	DAIKIN APPLIED	FCVS112	NOTE 1, 2, 6

PUMP SCHEDULE

NOTES:
1.PROVIDE SHAFT GROUNDING AS REQUIRED IN THE MOTOR SPECIFICATION 23 05 13.

						ELECTRICAL						MAX. DIMENSIONS						
										DISCONNECT		CONTROLLER/ STARTER						
TAG NAME	GPM	PUMP FT. HEAD AT DESIGN	MINIMUM PUMP EFFICIENCY	INLET SIZE	IMPELLER SIZE	HP (NOTE E)	RPM	VOLTAGE	PHASES	BY (NOTE A)	TYPE (NOTE B)	BY (NOTE A)	TYPE (NOTE C)	LENGTH	WIDTH	HEIGHT	WEIGHT	MANUFACTURER	MODEL	NOTES
CWP-1EH	390.0	75.00	82.5	4"	9.500	15	1645	480	3	EC	-	EC	VFD	42.75"	17.15"	18.25"	310	B & G	1510 SERIES	NOTE 1
CWP-2EH	390.0	75.00	82.5	4"	9.500	15	1645	480	3	EC	-	EC	VFD	42.75"	17.15"	18.25"	310	B & G	1510 SERIES	NOTE 1
HWP-1EH	420.0	75.00	84.6	4"	9.500	15	1707	480	3	EC	-	EC	VFD	42.75"	17.15"	18.25"	310	B & G	1510 SERIES	NOTE 1
HWP-2EH	420.0	75.00	84.6	4"	9.500	15	1707	480	3	EC	-	EC	VFD	42.75"	17.15"	18.25"	310	B & G	1510 SERIES	NOTE 1

HEAT EXCHANGER SCHEDULE - STEAM TO WATER

NOTES:
1.STEAM PRESSURE INDICATED IS THE PRESSURE AVAILABLE DOWNSTREAM OF THE CONTROL VALVE.

	WATER				STEAM (NOTE 1)					MAX. DIMENSIONS		WEIGHT				
TAG NAME	GPM	W.P.D. FT. HEAD	EWT °F	LWT °F	PSIG	LB/HR	HEATING SURFACE FT²	FOULING FACTOR		LENGTH	DIAMETER	DRY	OPERATING	MANUFACTURER	MODEL	NOTES
HE-1EH	420.0	3.2	150	180	10	7509	177.7	0.0005		81"	1'-2"	704	1087	B & G	SU-146-2	NONE
HE-2EH	420.0	3.2	150	180	10	7509	177.7	0.0005		81"	1'-2"	704	1087	B & G	SU-146-2	NONE

PIPE INSULATION SCHEDULE (HYDRONIC)

GENERAL NOTES:
1. REFER TO THE SPECIFICATIONS FOR TYPE DESCRIPTIONS AND JACKETING REQUIREMENTS. VALUES LISTED BELOW ARE BASED ON ASHRAE / IECC REQUIREMENTS.
2. TYPE A INSULATION IS NOT ALLOWED IN NON-AIR CONDITIONED SPACES (SUCH AS MECHANICAL ROOMS, EXTERIOR, ATTICS, ETC) ON PIPE SYSTEMS WITH FLUID TEMPERATURES BELOW 60 DEG. F.
3. TYPE B INSULATION GREATER THAN 1" THICK SHALL BE INSTALLED USING MULTIPLE LAYERS OF 3/4" OR 1" WITH STAGGERED SEAMS.
4. TYPE E IS NOT ALLOWED IN RETURN AIR PLENUMS, UNLESS LISTED AND LABELED AS 25/50 RATED PER ASTM E84/UL723
5. TYPE G 4" SHALL BE INSTALLED IN TWO (2) 2" LAYERS WITH STAGGERED SEAMS.
6. PROVIDE RIGID INSERT AT HANGERS, EITHER PRE-MANUFACTURED COUPLINGS OR TYPE C, D(HOT PIPE ONLY), E (WHERE ALLOWED BY CODE) OR F INSULATION. SEE SPEC FOR MORE DETAILS.

PIPE SYSTEM	INSULATION TYPE AND THICKNESS PER NOMINAL PIPE OR TUBE SIZE					NOTES
	< 1"	1" TO < 1.5"	1.5" TO < 4"	4" TO < 8"	≥ 8"	
CWR - CHILLED WATER RETURN	A 0.5", B 0.5", F 0.5"	A 0.5", B 0.5", F 0.5"	A 1", B 1", E 1", F 1"	A 1", B 1", E 1", F 1"	A 1", B 1", E 1", F 1"	
CWS - CHILLED WATER SUPPLY	A 0.5", B 0.5", F 0.5"	A 0.5", B 0.5", F 0.5"	A 1", B 1", E 1", F 1"	A 1", B 1", E 1", F 1"	A 1", B 1", E 1", F 1"	
HWR - HEATING WATER RETURN	A 1.5", E 1", F 1"	A 1.5", E 1", F 1"	A 2", E 1", F 1"	A 2", E 1", F 1"	A 2", E 1", F 1"	
HWS - HEATING WATER SUPPLY	A 1.5", E 1", F 1"	A 1.5", E 1", F 1"	A 2", E 1", F 1"	A 2", E 1", F 1"	A 2", E 1", F 1"	
LPC - LOW PRESSURE CONDENSATE	A 2.5"	A 2.5"	A 2.5"	A 3"	A 3"	
LPS - LOW PRESSURE STEAM	A 2.5"	A 2.5"	A 2.5"	A 3"	A 3"	
MISC RELIEF VENTS, INTAKES, AND DISCHARGES	A 0.5", B 0.5	A 0.5", B 0.5	A 1", B 1", E 1"	A 1", B 1", E 1"	A 1", B 1", E 1"	APPLY INSULATION ONLY WITHIN 10' OF EXTERIOR PENETRATION ON COMPRESSOR INTAKES, VACUUM DISCHARGES, VENT/RELIEF LINES, ETC.

DESTRATIFICATION FAN SCHEDULE

NOTES:
1. PROVIDE WITH ONE MODEL AVST-AUTO CONTROLLER FOR ALL DF-1 FANS AND A SECOND MODEL AVST-AUTO CONTROLLER FOR ALL DF-2 FANS. EACH CONTROLLER SHALL BE PROVIDED WITH AN AUTOMATIC USER INTERFACE AND (2) TEMPERATURE SENSORS. THE CONTROLLER SHALL OPERATE PER THE MANUFACTURERS SEQUENCE OF OPERATION TO MAINTAIN THE MANUFACTURER'S RECOMMENDED TEMPERATURE DIFFERENTIAL BETWEEN THE HIGH AND LOW TEMPERATURE SENSORS FOR EACH SYSTEM.
2. COLOR SHALL BE OFF-WHITE.
3. INSTALL PER MANUFACTURER'S RECOMMENDATIONS.

				ELECTRICAL (NOTE 1)										
								DISCONNECT		CONTROLLER/ STARTER				
TAG NAME	AREA SERVED	FAN RPM	DRIVE TYPE	MHP (WATTS)	VOLTAGE	PHASES	FLA	BY (NOTE A)	TYPE (NOTE B)	BY (NOTE A)	TYPE (NOTE C)	DIAMETER	WEIGHT (LBS)	MANUFACTURER	MODEL	NOTES
DF-1	AUDITORIUM BALCONY	1641	DIRECT	55	115	1	0.5	MFR	PLUG	MFR	NOTE 1	1'-5 1/2"	15	ZOO FANS	H25 AC	NOTES 2, 3
DF-2	AUDITORIUM LOWER LEVEL	1500	DIRECT	77	115	1	0.7	MFR	PLUG	MFR	NOTE 1	1'-9"	23	ZOO FANS	H50 AC	NOTES 2, 3

RADIATION SCHEDULE

NOTES:
1.REFER TO CONTROL DRAWINGS FOR DESCRIPTION OF CONTROL TYPE.
2. UNITS SHALL BE SELECTED TO OPERATE AT 140F-110F HEATING WATER TEMPERATURES TO ACCOMODATE FUTURE CONDENSING BOILERS. HEATING WATER SYSTEM TEMPERATURES WILL OPERATE AT 180F-150F INITIALLY.
3. UNITS SHALL BE WALL MOUNTED AND HAVE BOTH PIPE CONNECTIONS ON THE SAME SIDE OF THE ELEMENT. PIPING WILL BE EXTENDED FROM THE PIPE CHASE NEXT TO THE RADIATION, NOT THROUGH THE FLOOR. CABINET LENGTH SHALL BE DETERMINED BY THE CONTRACTOR TO EXTEND FROM THE PIPE CHASE TO THE END OF THE HEATING ELEMENT AND INCLUDE SPACE FOR VALVING AND AN ACCESS DOOR TO ACCOMODATE VALVE ACCESS THROUGH THE CABINET.
4. WHERE NEW SENSORS ARE REQUIRED (REFER TO TEMPERATURE CONTROL DRAWINGS FOR MORE INFORMATION) THEY SHALL BE SENSOR ONLY WITH NO ADJUSTMENT OR TEMPERATURE READOUT.

				ELEMENT							CABINET					
TAG NAME	AREA SERVED	MBH	GPM	MAT'L	LENGTH FT.	PIPE SIZE	FIN HEIGHT	FIN WIDTH	NUMBER OF ROWS	FINS PER FOOT	HEIGHT	DEPTH	AVERAGE WATER TEMP °F	CONTROL TYPE (NOTE 1)	MANUFACTURER	MODEL	NOTES
RAD-111	COUNSELOR 111	4.4	0.290	COPPER	8' - 4"	1"	3 3/4"	4 1/4"	1	40	14"	5 5/16"	125	THERMOSTAT	VULCAN	JV4	NOTE 2, 3, 4
RAD-112	COUNSELOR 112	4.4	0.290	COPPER	8' - 4"	1"	3 3/4"	4 1/4"	1	40	14"	5 5/16"	125	THERMOSTAT	VULCAN	JV4	NOTE 2, 3, 4
RAD-113	COUNSELOR 113	4.4	0.290	COPPER	8' - 4"	1"	3 3/4"	4 1/4"	1	40	14"	5 5/16"	125	THERMOSTAT	VULCAN	JV4	NOTE 2, 3, 4
RAD-114	COUNSELOR 114	4.4	0.290	COPPER	8' - 4"	1"	3 3/4"	4 1/4"	1	40	14"	5 5/16"	125	THERMOSTAT	VULCAN	JV4	NOTE 2, 3, 4
RAD-115	COUNSELOR 115	4.4	0.290	COPPER	8' - 4"	1"	3 3/4"	4 1/4"	1	40	14"	5 5/16"	125	THERMOSTAT	VULCAN	JV4	NOTE 2, 3, 4
RAD-116	SECT 116	4.4	0.290	COPPER	8' - 4"	1"	3 3/4"	4 1/4"	1	40	14"	5 5/16"	125	THERMOSTAT	VULCAN	JV4	NOTE 2, 3, 4
RAD-204	DEAN 2	4.4	0.290	COPPER	8' - 4"	1"	3 3/4"	4 1/4"	1	40	14"	5 5/16"	125	THERMOSTAT	VULCAN	JV4	NOTE 2, 3, 4
RAD-205	DEAN 3	4.4	0.290	COPPER	8' - 4"	1"	3 3/4"	4 1/4"	1	40	14"	5 5/16"	125	THERMOSTAT	VULCAN	JV4	NOTE 2, 3, 4
RAD-207	SECT 207	4.4	0.290	COPPER	8' - 4"	1"	3 3/4"	4 1/4"	1	40	14"	5 5/16"	125	THERMOSTAT	VULCAN	JV4	NOTE 2, 3, 4
RAD-208	POLICE OFF	4.4	0.290	COPPER	8' - 4"	1"	3 3/4"	4 1/4"	1	40	14"	5 5/16"	125	THERMOSTAT	VULCAN	JV4	NOTE 2, 3, 4
RAD-209	ATH DIR OFFICE	4.4	0.290	COPPER	8' - 4"	1"	3 3/4"	4 1/4"	1	40	14"	5 5/16"	125	THERMOSTAT	VULCAN	JV4	NOTE 2, 3, 4
RAD-305.2	OFFICE 305.2	4.6	0.310	COPPER	8' - 10"	1"	3 3/4"	4 1/4"	1	40	14"	5 5/16"	125	THERMOSTAT	VULCAN	JV4	NOTE 2, 3, 4
RAD-305.3	OFFICE 305.3	4.6	0.310	COPPER	8' - 10"	1"	3 3/4"	4 1/4"	1	40	14"	5 5/16"	125	THERMOSTAT	VULCAN	JV4	NOTE 2, 3, 4
RAD-319.7	BAND STORAGE	4.5	0.300	COPPER	9' - 7"	1"	3 3/4"	4 1/4"	1	40	14"	5 5/16"	125	THERMOSTAT	VULCAN	JV4	NOTE 2, 3, 4
RAD-319A	BAND ROOM 319	4.5	0.300	COPPER	9' - 7"	1"	3 3/4"	4 1/4"	1	40	14"	5 5/16"	125	THERMOSTAT	VULCAN	JV4	NOTE 2, 3, 4
RAD-319B	BAND ROOM 319	4.4	0.290	COPPER	8' - 4"	1"	3 3/4"	4 1/4"	1	40	14"	5 5/16"	125	THERMOSTAT	VULCAN	JV4	NOTE 2, 3, 4
RAD-319C	BAND ROOM 319	4.6	0.310	COPPER	8' - 10"	1"	3 3/4"	4 1/4"	1	40	14"	5 5/16"	125	THERMOSTAT	VULCAN	JV4	NOTE 2, 3, 4
RAD-319D	BAND ROOM 319	4.6	0.310	COPPER	8' - 10"	1"	3 3/4"	4 1/4"	1	40	14"	5 5/16"	125	THERMOSTAT	VULCAN	JV4	NOTE 2, 3, 4
RAD-319E	BAND ROOM 319	4.6	0.310	COPPER	8' - 10"	1"	3 3/4"	4 1/4"	1	40	14"	5 5/16"	125	THERMOSTAT	VULCAN	JV4	NOTE 2, 3, 4

SCHEDULE GENERAL NOTES:

A. DISCONNECT AND CONTROLLER STARTER FURNISHED AND INSTALLED BY:
MFR = MANUFACTURER
EC = ELECTRICAL CONTRACTOR.
MC = FURNISHED BY MECHANICAL CONTRACTOR, INSTALLED BY ELECTRICAL CONTRACTOR.
MFR/EC = FURNISHED LOOSE BY MANUFACTURER INSTALLED BY ELECTRICAL CONTRACTOR....

B. DISCONNECT TYPE:
F = FUSED
NF = NON-FUSED

C. CONTROLLER STARTER TYPE:
FV = FULL VOLTAGE
WYE = WYE-DELTA
SS = SOLID STATE (SOFT START)
MS = MANUAL STARTER
VFD = VARIABLE FREQUENCY DRIVE
VFD/B = VARIABLE FREQUENCY DRIVE WITH BYPASS

D. FAN RPM SHALL NOT EXCEED 110% OF SCHEDULED VALUE, WITH THE SCHEDULED WHEEL TYPE. SUBSTITUTION OF BI OR BIA FANS FOR FC IS ACCEPTABLE IF EFFICIENCY IS NOT LOWER.

E. NO EQUIPMENT SHALL BE SELECTED ABOVE 90% OF MOTOR NAME PLATE RATING.

F. MUST BE WITHIN +/- 10% OF SCHEDULED RPM.

G. CURB TYPE:
MFR = STANDARD CURB BY MANUFACTURER
GC = BY GENERAL CONTRACTOR
SAC = SOUND ATTENUATOR CURB

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REFERENCE SCALE IN INCHES
0 1 2

REVISIONS

No.	Date	Revision / Issue

SHEET INFORMATION

Issue	BID DOCUMENTS
Date	JANUARY 28, 2022
Job Number	21002885.04
Drawn	BRAGAR
Checked	ALIHAM
Approved	BRAGAR

SHEET TITLE
MECHANICAL SCHEDULES

SCALE
Scale:

SHEET NUMBER
M600

PACKAGED ROOFTOP UNIT SCHEDULE – GAS/DX (FIRST HALF)

NOTES:
1.PROVIDE WITH TOTAL ENERGY RECOVERY WHEEL.
2.TOTAL OPERATING WEIGHT INCLUDES UNIT, CURB, ACCESSORIES AND UNIT MOUNTED POWER EXHAUST. DUCT MOUNTED ACCESSORIES AND EQUIPMENT ARE NOT INCLUDED. CONTRACTOR IS RESPONSIBLE FOR ALL CHANGES REQUIRED DUE TO ROOFTOP UNIT HEAVIER THAN THE BASIS OF DESIGN AT NO ADDITIONAL COST.
3.PROVIDE SHAFT GROUNDING IF REQUIRED IN THE MOTOR SPECIFICATION 23 05 13.
4.LAT LISTED IS AT LEAVING SIDE OF COOLING COIL.
5.REFER TO CONTROL DRAWINGS FOR DESCRIPTION OF CONTROL TYPE.
6.STAGES: MODULATING = VARIABLE CAPACITY OUTPUT COMPRESSORS, # = NUMBER OF COMPRESSOR STAGES.
7. PROVIDE WITH FIXED PLATE HEAT EXCHANGER.
8. PROVIDE AS PART OF ALTERNATE BID 2.
9. PROVIDE AS PART OF ALTERNATE BID 1....

				SUPPLY FAN (NOTE 3)						UNIT ELECTRICAL DATA								COOLING COIL - DX									HEATING - GAS							
															DISCONNECT(S)		CONTROLLER STARTER(S)																
TAG NAME	AREA SERVED	NOMINAL TONS	MINIMUM OUTSIDE AIR (CFM)	NO. OF FANS	CFM TOTAL	EXT S.P. IN W.C.	R P M	BHP EACH	MHP EACH	NO. OF POWER CONNECTIONS	VOLTAGE	PHASES	MCA	MOCP	BY (NOTE A)	TYPE (NOTE B)	BY (NOTE A)	TYPE (NOTE B)	NO. OF AUXILIARY CONNECTIONS	EAT DB °F	EAT WB °F	LAT DB °F (NOTE 4)	LAT WB °F (NOTE 4)	SENSIBLE MBH	TOTAL MBH	AMB TEMP °F	STAGES (NOTE 6)	MIN EFF AFUE	MIN INPUT MBH	MIN OUTPUT MBH	TURN DOWN/STEPS	FUEL PRESSURE PSI	SEER (EER)	FILTER TYPE	DISCHARGE DIRECTION
RTU-1EH	AUDITORIUM	63	7930	1	21420	2.8	1370	22.4	40	1	480	3	195.4 A	225 A	MFR	NF	MFR	CONTROLLER	0	76.8	63.9	54.0	53.3	534.8	667	95 °F	MODULATING	80	800	640	20:1	14 in-wg	10.1	MERV 8	DOWN
RTU-2EH	LARGE GYM	63	12310	1	19420	1.8	1110	18.5	40	1	480	3	195.4 A	225 A	MFR	NF	MFR	CONTROLLER	0	79.1	66.2	55.0	54.5	512.5	697	95 °F	MODULATING	80	800	640	20:1	14 in-wg	10.3	MERV 8	DOWN
RTU-3EH	POOL	25.9	4800	1	10000	1.5	1660	9	10	1	480	3	27.3 A	35 A	MFR	NF	MFR	CONTROLLER	1	84.6	77.0	59.9	59.7	131.4	310	95 °F	2	80	450	360	10:1	14 in-wg	11.8	MERV 8	DOWN
RTU-4EH	SMALL GYM	6	890	1	2410	1.8	2536	2.9	4	1	480	3	15.7 A	20 A	MFR	NF	MFR	CONTROLLER	1	76.9	64.0	54.4	54.1	59.1	71	95 °F	MODULATING	80	160	128	5:1	14 in-wg	11.3	MERV 8	DOWN
RTU-5EH	AREA D	6	890	1	2410	1.8	2536	2.9	4	1	480	3	15.7 A	20 A	MFR	NF	MFR	CONTROLLER	1	76.9	64.0	54.4	54.1	59.1	71	95 °F	MODULATING	80	160	128	5:1	14 in-wg	11.3	MERV 8	DOWN
RTU-6EH	AREA D	6	890	1	2410	1.8	2536	2.9	4	1	480	3	15.7 A	20 A	MFR	NF	MFR	CONTROLLER	1	76.9	64.0	54.4	54.1	59.1	71	95 °F	MODULATING	80	160	128	5:1	14 in-wg	11.3	MERV 8	DOWN
RTU-7EH	AREA D	6	890	1	2405	1.8	2536	2.9	4	1	480	3	15.7 A	20 A	MFR	NF	MFR	CONTROLLER	1	76.9	64.0	54.4	54.1	59.1	71	95 °F	MODULATING	80	160	128	5:1	14 in-wg	11.3	MERV 8	DOWN
RTU-8EH	AREA D	6	890	1	2405	1.8	2536	2.9	4	1	480	3	15.7 A	20 A	MFR	NF	MFR	CONTROLLER	1	76.9	64.0	54.4	54.1	59.1	71	95 °F	MODULATING	80	160	128	5:1	14 in-wg	11.3	MERV 8	DOWN
RTU-9EH	AREA D	6	890	1	1930	1.8	2536	2.9	4	1	480	3	15.7 A	20 A	MFR	NF	MFR	CONTROLLER	1	76.9	64.0	54.4	54.1	59.1	71	95 °F	MODULATING	80	160	128	5:1	14 in-wg	11.3	MERV 8	DOWN
RTU-10EH	AREA C	16	2070	1	5295	1.8	2146	5.7	7.5	1	480	3	47.5 A	70 A	MFR	NF	MFR	CONTROLLER	1	76.6	63.7	53.3	53.2	150	181	95 °F	MODULATING	80	450	350	12:1	14 in-wg	11.1	MERV 8	DOWN
RTU-11EH	FIELDHOUSE	90	3600	2	32000	1.5	1221	14.7	20	1	480	3	266 A	300 A	MFR	NF	MFR	CONTROLLER	1	79.9	67.6	56.7	56.7	785.8	1068	95 °F	MODULATING	80	800	640	3:1	14 in-wg	11.3	MERV 8	DOWN
RTU-12EH	FIELDHOUSE	90	3600	2	32000	1.5	1221	14.7	20	1	480	3	266 A	300 A	MFR	NF	MFR	CONTROLLER	1	79.9	67.6	56.7	56.7	758.8	1068	95 °F	MODULATING	80	800	640	3:1	14 in-wg	11.3	MERV 8	DOWN
RTU-13EH	FIELDHOUSE	90	3600	2	32000	1.5	1221	14.7	20	1	480	3	266 A	300 A	MFR	NF	MFR	CONTROLLER	1	79.9	67.6	56.7	56.7	758.8	1068	95 °F	MODULATING	80	800	640	3:1	14 in-wg	11.3	MERV 8	DOWN
RTU-14EH	FIELDHOUSE	90	3600	2	32000	1.5	1221	14.7	20	1	480	3	266 A	300 A	MFR	NF	MFR	CONTROLLER	1	79.9	67.6	56.7	56.7	758.8	1068	95 °F	MODULATING	80	800	640	3:1	14 in-wg	11.3	MERV 8	DOWN

PACKAGED ROOFTOP UNIT SCHEDULE – GAS-DX (SECOND HALF)

	POWERED EXHAUST (NOTE 1 AND 3)								MAX DIMENSIONS			WEIGHT (NOTE 2)			
TAG NAME	NO. OF FANS	CFM TOTAL	EXT S.P. IN W.C.	RPM	BHP EACH	MHP EACH	CONTROL TYPE	CURB TYPE (NOTE G)	LENGTH	WIDTH	HEIGHT	UNIT WEIGHT	MANUFACTURER	MODEL	NOTES
RTU-1EH	1	13,490 CFM	0.5 in-wg	565	3.95	25	NOTE 5	NONE	538	99	73	17278	DAIKIN APPLIED	RPS063D	NOTE 1, 10
RTU-2EH	1	19,420 CFM	0.8 in-wg	777	10.05	25	NOTE 5	NONE	562	99	73	17888	DAIKIN APPLIED	RPS063D	NOTE 1, 10
RTU-3EH	1	5,800 CFM	1 in-wg	1866	3.9	5	NOTE 5	NONE	323	95	74	8700	INNOVENT	NDHU-SS-PL-10000	NOTE 7, 10
RTU-4EH	1	2,410 CFM	0.75 in-wg	2241	1.25	2.3	NOTE 5	NONE	85.5	87	40.8	1689	DAIKIN APPLIED	DPS006A	NOTE 1, 10
RTU-5EH	1	2,410 CFM	0.75 in-wg	2241	1.25	2.3	NOTE 5	NONE	85.5	87	40.8	1689	DAIKIN APPLIED	DPS006A	NOTE 1, 10
RTU-6EH	1	2,410 CFM	0.75 in-wg	2241	1.25	2.3	NOTE 5	NONE	85.5	87	40.8	1689	DAIKIN APPLIED	DPS006A	NOTE 1, 10
RTU-7EH	1	2,405 CFM	0.75 in-wg	2241	1.25	2.3	NOTE 5	NONE	85.5	87	40.8	1689	DAIKIN APPLIED	DPS006A	NOTE 1, 10
RTU-8EH	1	2,405 CFM	0.75 in-wg	2241	1.25	2.3	NOTE 5	NONE	85.5	87	40.8	1689	DAIKIN APPLIED	DPS006A	NOTE 1, 10
RTU-9EH	1	1,930 CFM	0.75 in-wg	2241	1.25	2.3	NOTE 5	NONE	85.5	87	40.8	1689	DAIKIN APPLIED	DPS006A	NOTE 1, 10
RTU-10EH	1	5,295 CFM	0.75 in-wg	1343	2.33	4	NOTE 5	MFR	182.3	76.5	82.5	4370	DAIKIN APPLIED	DPS016A	NOTE 1, 8
RTU-11EH	2	32,000 CFM	0.5 in-wg	981	5.87	15	NOTE 5	NONE	355	142	105	17810	AAON	RNA-090	NOTE 9, 10
RTU-12EH	0	32,000 CFM	0.5 in-wg	981	5.87	15	NOTE 5	NONE	355	142	105	17810	AAON	RNA-090	NOTE 9, 10
RTU-13EH	0	32,000 CFM	0.5 in-wg	981	5.87	15	NOTE 5	NONE	355	142	105	17810	AAON	RNA-090	NOTE 9, 10
RTU-14EH	0	32,000 CFM	0.5 in-wg	981	5.87	15	NOTE 5	NONE	355	142	105	17810	AAON	RNA-090	NOTE 9, 10

TERMINAL AIR BOX SCHEDULE - SINGLE DUCT

NOTES:
1.NEITHER RADIATED NOR DISCHARGE SOUND LEVELS SHALL EXCEED NC 35 AT 1.5" INLET STATIC PRESSURE WHEN TESTED PER AHRI STANDARD 885-2008 USING 5/8" 20-LB DENSITY MINERAL FIBER CEILING TILE.
2.TOTAL AIR PRESSURE DROP OF TAB AND REHEAT COIL SHALL NOT EXCEED 0.50" WC.
3.REFER TO CONTROL DRAWINGS FOR DESCRIPTION OF CONTROL TYPE.
4.SENSOR TYPES: 1 - SENSOR ONLY, 2 - SENSOR WITH ADJUSTMENT, 3 - SENSOR WITH OVERRIDE, 4 - SENSOR WITH ADJUSTMENT AND OVERRIDE.
5.HEATING COIL IS BASED ON HEATING AIR FLOW. WATER PRESSURE DROP OF REHEAT COILS SHALL NOT EXCEED 5'. PROVIDE REHEAT COILS SEPARATE FROM BOXES IF REQUIRED TO MEET WATER PRESSURE DROP REQUIREMENTS. WHEN LAT °F, EWT °F, AND GPM VALUES ARE BLANK, HEATING COIL IS NOT REQUIRED FOR TAB.
6.HEATING COIL SELECTION SHALL BE BASED ON A FIXED LEAVING AIR TEMPERATURE AND VARIABLE FLOW (GPM). PROVIDE FINAL MAXIMUM FLOW RATE (GPM) TO TEST & BALANCE TERMPERATURE CONTROLS CONTRACTORS.
7. UNITS SHALL BE SELECTED TO OPERATE AT 140F-110F HEATING WATER TEMPERATURES TO ACCOMODATE FUTURE CONDENSING BOILERS. HEATING WATER SYSTEM TEMPERATURES WILL OPERATE AT 180F-150F INITIALLY.

		CFM			HEATING COIL (NOTES 5, 6)									
TAG NAME	AREA SERVED	COOLING MAX.	HEATING MAX.	MIN.	EAT °F	LAT °F	EWT °F	MAX. GPM	MIN. INLET SIZE (IN.) DIA.	CONTROL TYPE (NOTE 3)	SENSOR TYPE (NOTE 4)	MANUFACTURER	MODEL (NOTES 1, 2)	NOTES
TAB-131	131 MATH	540	300	300	53.0	105.0	140	1.1	8"	TAB-A	1	TITUS	DESV	NOTES 1, 2
TAB-132	132 PLUS	570	300	300	53.0	105.0	140	1.1	8"	TAB-A	1	TITUS	DESV	NOTES 1, 2
TAB-133	133 CIMI	560	300	300	53.0	105.0	140	1.1	8"	TAB-A	1	TITUS	DESV	NOTES 1, 2
TAB-134	134 CIMI 130 CORRIDOR	810	300	300	53.0	105.0	140	1.1	10"	TAB-A	1	TITUS	DESV	NOTES 1, 2
TAB-135	135 INT CURR SUPPORT	290	290	290	53.0	105.0	140	1.1	6"	TAB-A	1	TITUS	DESV	NOTES 1, 2
TAB-136	136 SPED CONF RM	335	300	300	53.0	105.0	140	1.1	6"	TAB-A	1	TITUS	DESV	NOTES 1, 2
TAB-137	137 TPI	480	300	300	53.0	105.0	140	1.1	8"	TAB-A	1	TITUS	DESV	NOTES 1, 2
TAB-138	138 HI	550	300	300	53.0	105.0	140	1.1	8"	TAB-A	1	TITUS	DESV	NOTES 1, 2
TAB-139	139 LITERACY	570	300	300	53.0	105.0	140	1.1	8"	TAB-A	1	TITUS	DESV	NOTES 1, 2
TAB-140	140 CLASSROOM	590	300	300	53.0	105.0	140	1.1	8"	TAB-A	1	TITUS	DESV	NOTES 1, 2

DEDICATED OUTDOOR AIR UNIT (FIRST HALF)

NOTES:
1.PROVIDE SHAFT GROUNDING AS REQUIRED IN THE MOTOR SPECIFICATION 23 05 13.
2.LAT LISTED IS AT LEAVING SIDE OF COOLING COIL.
3. PROVIDE WITH FACTORY POWERED GFCI RECEPTACLE.
4. PROVIDE WITH FIELD POWERED GFCI RECEPTACLE WIRED TO JUNCTION BOX.

		SUPPLY FAN							EXHAUST FAN							ENERGY RECOVERY WHEEL														HEATING - GAS						COOLING COIL - DX (NOTE 2)									HOT GAS REHEAT		
																		OUTDOOR AIR							RELIEF AIR																						
																			SUMMER			WINTER					SUMMER			WINTER																		
TAG NAME	AREA SERVED	NO. OF FANS	CFM TOTAL	MIN. CFM	EXT. S.P.	TYPE	RPM (NOTE D)	BHP EACH (NOTE E)	MHP EACH (NOTE E)	NO. OF FANS	CFM TOTAL	MIN. CFM	EXT. S.P.	TYPE	RPM (NOTE D)	BHP EACH (NOTE E)	MHP EACH (NOTE E)	TYPE	EFFICIENCY	CFM	EAT DB	EAT WB	LAT DB	LAT WB	EAT DB	EAT WB	LAT DB	LAT WB	APD	CFM	EAT DB	EAT WB	EAT DB	EAT WB	APD	HEATING GAS MIN EFFICIENCY	HEATING GAS INPUT MBH	HEATING GAS OUTPUT	HEATING GAS TURN DOWN	NATURAL GAS PRESSURE	MAX. A.P.D. IN. W.C.	MINIMUM EFFICIENCY	NUMBER OF COMPRESSORS	NUMBER OF STAGES	EAT °F DB	EAT °F WB	MAX. LAT °F DB	LAT °F WB	TOTAL MBH	MAX. A.P.D. IN. W.C.	EAT	LAT	CAPACITY MBH
DOAS-1EH	AREA A & E	1	13960	13960	2.00	DIRECT DRIVE	1146	12.3	15	1	13960	13960	1.00	DIRECT DRIVE	702	8	10	TOTAL ENTHALPY	61.2	13,960	95	78	82	68.9	-10	-10	42.5	36.1	0.78	13,960	75	62	68	52	0.78	80	500	400	20:1	7 in-wg	0.1	10.0 EER	3	MODULATING	82.0	68.9	54.9	54.2	647	0.5	54.9	70	228.2
DOAS-2EH	AREA A & B	1	15730	15730	1.50	DIRECT DRIVE	1031	14.1	15	1	15730	15730	1.00	DIRECT DRIVE	751	9.7	10	TOTAL ENTHALPY	58.3	15,730	95	78	82.6	69.4	-10	-10	40.5	34.6	0.88	15,730	75	62	68	52	0.88	80	500	400	20:1	7 in-wg	0.1	9.5 EER	4	MODULATING	82.6	69.4	53.7	53.1	803	0.7	53.7	70	279
DOAS-3EH	AREA B	4	7800	7800	1.50	DIRECT DRIVE	1842	1.9	6	2	7800	7800	0.75	DIRECT DRIVE	1088	1.4	5	TOTAL ENTHALPY	50.5 1	7,800	95	78	82.9	70.9	-5	-5	43.2	34.1	0.59	7,800	75	62	70	5	0.59	81	200	162	5:1	7 in-wg	0.0	10.5 EER	3	MODULATING	82.9	70.9	54.1	54.1	424	0.4	54.1	70	134.8

DEDICATED OUTDOOR AIR UNIT (SECOND HALF)

FILTER				ELECTRICAL (NOTE 1)											MAX. DIMENSIONS			WEIGHT			
									DISCONNECT(S)		CONTROLLER/ STARTER(S)										
TYPE	VELOCITY	PRESSURE DROP CLEAN/DIRTY	ROOF CURB (NOTE G)	NO. OF POWER CONNECTIONS	VOLTAGE	PHASES	MCA	MOCP	BY (NOTE A)	TYPE (NOTE B)	BY (NOTE A)	TYPE (NOTE C)	NO. OF AUXILIARY CONNECTIONS	LENGTH	WIDTH	HEIGHT	OPERATING	MANUFACTURER	MODEL	NOTES
MERV 8	189	0.07	NONE	1	480	3	150	175	MFR	NF	MFR	CONTROLLER	0	514"	99"	73"	15968	DAIKIN APPLIED	RPS063D	NOTE 3
MERV 8	213	0.08	NONE	1	480	3	179	200	MFR	NF	MFR	CONTROLLER	0	538"	99"	73"	16845	DAIKIN APPLIED	RPS074D	NOTE 3
MERV 8	183	0.07	NONE	1	480	3	114	125	MFR	NF	MFR	CONTROLLER	1	309"	96.5"	77.6"	8670	DAIKIN APPLIED	DPSA035	NOTE 4

AIR TERMINAL SCHEDULE

NOTES:
1.CONTRACTOR SHALL DETERMINE PROPER BORDER TYPE TO MATCH CEILING CONSTRUCTION.
2.REFER TO DRAWINGS FOR NECK SIZE. ALL BRANCH DUCTWORK TO AIR TERMINALS SHALL BE NECK SIZE UNLESS NOTED OTHERWISE.

TAG NAME	FACE SIZE (IN.) (NOTE 2)	TYPE	BORDER (NOTE 1)	MATERIAL	FINISH	VOLUME DAMPER REQUIRED	MANUFACTURER	MODEL	NOTES	Count
RG-1	24x24	PERFORATED FACE	LAY-IN	STEEL	WHITE	NO	TITUS	PAR	DUCTED RETURN	11
RG-2	24x24	PERFORATED FACE	LAY-IN	STEEL	WHITE	NO	TITUS	PXP	FACE ONLY - NON DUCTED	2
SD-1	24x24	PANEL FACE	LAY-IN	STEEL	WHITE	NO	TITUS	OMNI	FLUSH FACE PANEL	21
SG-1	INLET +2	DOUBLE DEFLECTION	1 1/4"	STEEL	WHITE	NO	TITUS	300R	FRONT BLADES VERTICAL UNLESS NOTED OTHERWISE	6
SG-2	INLET +2	SINGLE DEFLECTION	1 1/4"	STEEL	WHITE	NO	TITUS	301R	BLADES VERTICAL UNLESS NOTED OTHERWISE	3
SG-3	INLET + 1 1/2	DOUBLE DEFLECTION	1 1/4"	ALUMINUM	WHITE	YES	TITUS	S300	DIRECT ROUND DUCT MOUNTED SUPPLY GRILLE	55

FAN SCHEDULE

NOTES:
1.PROVIDE WITH EC MOTOR.

									ELECTRICAL									
													DISCONNECT		CONTROLLER/ STARTER					
TAG NAME	AREA SERVED	CFM	S.P. IN. W.C.	FAN RPM (NOTE F)	DRIVE TYPE	MAX. AMCA SONES	BACKDRAFT DAMPER TYPE	CURB TYPE (NOTE G)	BHP	MHP	VOLTAGE	PHASES	BY (NOTE A)	TYPE (NOTE B)	BY (NOTE A)	TYPE (NOTE C)	WEIGHT	MANUFACTURER	MODEL	NOTES
EF-1EH	LOCKER ROOMS	2,660	0.60	963	DIRECT	11	MOTORIZED	MFR	0.57	1	208	1	MFR	NF	MFR	FV	92	GREENHECK	G-108-VG	NOTE 1

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KEY PLAN

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REFERENCE SCALE IN INCHES

0 1 2

REVISIONS

No.	Date	Revision / Issue

SHEET INFORMATION

Issue	BID DOCUMENTS
Date	JANUARY 28, 2022
Job Number	21002885.04
Drawn	BRAGAR
Checked	ALIHAM
Approved	BRAGAR

SHEET TITLE

MECHANICAL SCHEDULES

SCALE

Scale:

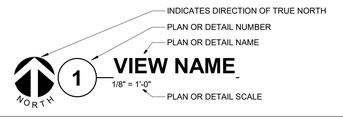
SHEET NUMBER

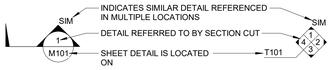
M601

VIEW KEY

NAME — LEVEL NAME
10'-0" — HEIGHT ABOVE PROJECT 0'-0"

1 — INDICATES NOTE USED TO DESCRIBE ADDITIONAL INFORMATION ABOUT WORK REQUIRED, SPECIFIC TO THE SHEET AND/OR DETAIL





LINE TYPE AND TAG KEY:

NEW WORK BY THIS CONTRACTOR (WIDE LINE)
——— NEW
– – – – – – EXISTING TO BE REMOVED (SHORT DASHED PATTERN)
— — — NEW UNDERFLOOR OR UNDERGROUND (LONG DASHED PATTERN)

EXISTING TO REMAIN OR WORK BY OTHERS (NARROW LINE)
——— EXISTING
– – – – – – EXISTING TO BE REMOVED BY OTHERS (SHORT DASHED PATTERN)
— — — EXISTING UNDERFLOOR OR UNDERGROUND (LONG DASHED PATTERN)

HALFTONING DOES NOT MODIFY SCOPE.

'TAG'-E TAGS WITH DASH 'E' INDICATES THE REFERENCED OBJECT IS EXISTING

TAG-1 UNDERLINED TAG INDICATES OBJECT IS IN-SCOPE. IF NEW, ADDITIONAL INFORMATION IS AVAILABLE IN A SCHEDULE, MATERIAL LIST, OR SYMBOL LIST

INDICATES AN EXISTING SYSTEM'S POINT OF CONNECTION/REMOVAL

FIRE / SMOKE BARRIER DESIGNATIONS

THE LINE TYPES SHOWN ARE FOR THE CONVENIENCE OF THE CONTRACTOR. THE CONTRACTOR SHALL VERIFY RATINGS WITH THE LATEST SET OF ARCHITECTURAL PLANS AND FURNISH ALL MATERIALS REQUIRED TO COMPLY WITH THOSE RATINGS WHETHER SHOWN OR NOT.

ALL [FLOOR, FLOOR CEILING, AND ROOF CEILING] ASSEMBLIES SHALL BE DESIGNATED AS 1 OR 2 HOUR FIRE BARRIERS, UNLESS NOTED OTHERWISE ON THE PLANS. RATINGS WERE ACQUIRED FROM THE ARCHITECTURAL PLANS DATED [12/28/2021].

1 HOUR FIRE WALL	– – – – – – – – – – – –
2 HOUR FIRE WALL	– – – – – – – – – – – –

CONTRACTOR ABBREVIATION KEY

ABBR:	DESCRIPTION:
A.C.	ASBESTOS ABATEMENT CONTRACTOR
C.C.	CIVIL CONTRACTOR
C.M.	CONSTRUCTION MANAGER
E.C.	ELECTRICAL CONTRACTOR
F.P.C.	FIRE PROTECTION CONTRACTOR
G.C.	GENERAL CONTRACTOR
H.C.	HEATING CONTRACTOR
M.C.	MECHANICAL CONTRACTOR
T.C.C.	TEMPERATURE CONTROLS CONTRACTOR
V.C.	VENTILATION CONTRACTOR

CONTROL SYMBOL LIST

NOT ALL SYMBOLS MAY APPLY.

SYMBOL:	DESCRIPTION:
CR	CONDENSER WATER RETURN
CS	CONDENSER WATER SUPPLY
CS15	CLEAN STEAM - NUMBER INDICATES PRESSURE IN PSIG.
CWR	CHILLED WATER RETURN
CWS	CHILLED WATER SUPPLY
GWR	GLYCOL WATER RETURN
GWS	GLYCOL WATER SUPPLY
HCR	HEATING/CHILLED WATER RETURN
HCS	HEATING/CHILLED WATER SUPPLY
HPC	HIGH PRESSURE CONDENSATE
HPS	HIGH PRESSURE STEAM
HWR	HEATING WATER RETURN
HWS	HEATING WATER SUPPLY
LPC	LOW PRESSURE CONDENSATE
LPS	LOW PRESSURE STEAM
LWR	LOOP WATER RETURN
LWS	LOOP WATER SUPPLY
PC	PUMPED CONDENSATE
RWR	REHEAT WATER RETURN
RWS	REHEAT WATER SUPPLY
VAC	LAB VACUUM
	CONTROL VALVE (THREE-WAY)
	CONTROL VALVE (TWO-WAY)
	SOLENOID VALVE
	CHECK VALVE
T	THERMOSTAT
T	THERMOSTAT/SENSOR WITH HEAVY DUTY ENCLOSURE
T	TEMPERATURE SENSOR (DUCT MOUNTED)
T	TEMPERATURE SENSOR WITH WELL
T	THERMOMETER WITH WELL (DIAL TYPE)
T	THERMOMETER WITH WELL (FILLED TYPE)
T	AVERAGING TEMPERATURE SENSOR
T	LOW LIMIT TEMPERATURE SWITCH
T	PROBE TEMPERATURE SENSOR
P	PRESSURE SENSOR (FURNISHED WITH BALL VALVE)
P	PRESSURE GAUGE (FURNISHED WITH BALL VALVE)
	DIFFERENTIAL PRESSURE SENSOR
P	PRESSURE SENSOR (DUCT MOUNTED)
SP	STATIC SWITCH
AI	ANALOG INPUT
AO	ANALOG OUTPUT
FM	FLOW METER
F	FLOW SWITCH
FS	FLOW SENSOR
FS	AIR FLOW SWITCH
FM	DUCT FLOW METER
H	HUMIDIFIER
DSD	DUCT SMOKE DETECTOR
	HEATING/ COOLING COIL
	AIR BLENDER
MTR	MANUAL MOTOR STARTER W/THERMAL OVERLOAD
	FAN
MTR	MOTOR
R	CONTACTOR
	PUMP
DI	
DO	
H	HUMIDISTAT SENSOR
H	HUMIDISTAT / SENSOR
H	HUMIDITY SENSOR (DUCT MOUNTED)
C	CARBON MONOXIDE SENSOR (DIGITAL INDEX)
C2	CARBON DIOXIDE SENSOR
C	CARBON MONOXIDE SENSOR (DUCT MOUNTED)
C2	CARBON DIOXIDE SENSOR (DUCT MOUNTED)
	FILTER
	TERMINAL AIR BOX
	TERMINAL AIR BOX W/ REHEAT
O	OCCUPANCY SENSOR
S	SENSOR
ACT	ACTUATOR
DS	DOOR SWITCH
DP	DIFFERENTIAL PRESSURE SWITCH
CS	CURRENT SWITCH
VS	VIBRATION SWITCH
	NORMALL CLOSED CONTACT
	NORMALLY OPEN CONTACT
	OPPOSED BLADE DAMPER
	PARALLEL BLADE DAMPER

TEMPERATURE CONTROLS ABBREVIATION KEY

ABBR:	DESCRIPTION:
EA	EXHAUST/RELIEF AIR
MA	MIXED AIR
MV	MIXING VALVE
N.C.	NORMALLY CLOSED
NIC	NOT IN CONTRACT
N.O.	NORMALLY OPEN
OA	OUTSIDE AIR
TYP	TYPICAL
RA	RETURN AIR
SA	SUPPLY AIR
UON	UNLESS OTHERWISE NOTED

TEMPERATURE CONTROL SHEET INDEX

MC000	TEMPERATURE CONTROL COVERSHEET
MC200A	BASEMENT FLOOR - CONTROLS - AREA A
MC200B	BASEMENT FLOOR - CONTROLS - AREA B
MC200C	BASEMENT FLOOR - CONTROLS - AREA C
MC200D	BASEMENT FLOOR - CONTROLS - AREA D
MC200E	BASEMENT FLOOR - CONTROLS - AREA E
MC201A	FIRST FLOOR - CONTROLS - AREA A
MC201B	FIRST FLOOR - CONTROLS - AREA B
MC201E	FIRST FLOOR - CONTROLS - AREA E
MC202A	SECOND FLOOR - CONTROLS - AREA A
MC202B	SECOND FLOOR - CONTROLS - AREA B & F
MC203A	THIRD FLOOR - CONTROLS - AREA A
MC203B	THIRD FLOOR - CONTROLS - AREA B & F
MC204A	ROOF - CONTROLS - AREA A
MC204B	ROOF - CONTROLS - AREA B
MC204C	ROOF - CONTROLS - AREA C
MC204D	ROOF - CONTROLS - AREA D
MC204E	ROOF - CONTROLS - AREA E
MC500	CONTROL DIAGRAMS
MC502	CONTROL DIAGRAMS
MC503	CONTROL DIAGRAMS
MC501	CONTROL DIAGRAMS
GRAND TOTAL: 22	

MECHANICAL GENERAL NOTES:

THESE NOTES APPLY TO ALL MECHANICAL SHEETS AND TRADES, INCLUDING BUT NOT LIMITED TO, FIRE PROTECTION, PLUMBING, MEDICAL GAS, VENTILATION, PIPING AND TEMPERATURE CONTROL.

1. DRAWINGS SHOWING LOCATIONS OF EQUIPMENT, DUCTWORK, PIPING, ETC. ARE DIAGRAMMATIC AND MAY NOT ALWAYS REFLECT EXACT INSTALLATION CONDITIONS. DRAWINGS SHOW THE GENERAL ARRANGEMENT OF DUCTWORK, PIPING, EQUIPMENT, ETC., AND MAY NOT INCLUDE ALL OFFSETS AND FITTINGS REQUIRED FOR COMPLETE INSTALLATION. THE DRAWINGS SHALL BE FOLLOWED AS CLOSELY AS ACTUAL BUILDING CONSTRUCTION AND THE WORK OF OTHERS WILL PERMIT.
2. DO NOT SCALE DRAWINGS. VERIFY ALL DIMENSIONS AND CLEARANCES FROM ARCHITECTURAL, STRUCTURAL, SUBMITTALS, AND OTHER APPROPRIATE DRAWINGS OR PHYSICALLY AT SITE. REVIEW ALL DRAWINGS, INCLUDING THOSE OF OTHER TRADES.
3. COORDINATE ALL WORK WITH ALL OTHER TRADES PRIOR TO INSTALLATION TO PROVIDE CLEARANCES REQUIRED FOR OPERATION, MAINTENANCE, CODE COMPLIANCE, AND TO VERIFY NON-INTERFERENCE WITH OTHER WORK. DO NOT FABRICATE PRIOR TO VERIFICATION OF NECESSARY CLEARANCES FOR ALL TRADES. BRING ANY INTERFERENCES OR CONFLICTS TO THE ATTENTION OF THE ARCHITECT/ENGINEER BEFORE PROCEEDING WITH FABRICATION OR EQUIPMENT ORDERS.
4. REVIEW SPACE REQUIREMENTS OF EQUIPMENT SPECIFIED OR SUBSTITUTED AND MAKE REASONABLE ACCOMMODATIONS IN LAYOUT AND POSITIONING TO PROVIDE PROPER ACCESS.
5. ANY CHANGES REQUIRED TO ELIMINATE CONFLICTS OR THAT RESULT FROM A FAILURE TO COORDINATE SHALL BE MADE BY THE CONTRACTOR WITHOUT ADDITIONAL COST OR EXPENSE TO OTHERS.
6. EACH CONTRACTOR IS RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH ELECTRICAL CHANGES REQUIRED FOR EQUIPMENT PROPOSED THAT DIFFERS FROM THE BASIS OF DESIGN.
7. REFER TO ARCHITECTURAL REFLECTED CEILING PLAN, ELECTRICAL, TECHNOLOGY AUDIO/VISUAL, AND OTHER MECHANICAL PLANS FOR EXACT LOCATIONS OF ALL CEILING MOUNTED DEVICES, OTHER THAN SPRINKLERS.
8. EACH CONTRACTOR IS RESPONSIBLE FOR DAMAGE CAUSED BY THEIR ACTIONS TO WALLS, FLOORS, CEILINGS, AND ROOFS. THE CONTRACTOR WHOSE WORK CAUSES DAMAGE IS RESPONSIBLE FOR PATCHING TO MATCH ORIGINAL CONSTRUCTION, FIRE RATING, AND FINISH.
9. IN AREAS WITH DRYWALL CEILINGS COORDINATE LOCATIONS OF ACCESS PANELS WITH THE GC FOR ACCESS TO VALVES, DUCTWORK ACCESSORIES, DAMPERS, ETC. COORDINATE PANEL TYPE AND COLOR WITH ARCHITECT. NOTIFY THE GC OF THE REQUIRED ACCESS PANELS PRIOR TO BIDDING.
10. SEAL ALL FLOOR, WALL AND ROOF PENETRATIONS AIRTIGHT WHERE CONDUITS, PIPING, AND DUCTS PENETRATE. PENETRATIONS THROUGH EXTERIOR WALLS AND ROOF SHALL BE SEALED AIRTIGHT WITH WATERPROOFING MATERIALS RECOMMENDED BY MANUFACTURER FOR OUTDOOR USE.
11. CAULK ALL PIPE AND DUCT PENETRATIONS OF FULL HEIGHT NON-FIRE RATED WALL, PARTITION, FLOOR, AND ROOF ASSEMBLIES. THIS IS ESSENTIAL TO PREVENT NOISE TRANSMISSION FROM ONE ROOM TO ANOTHER AND TO PROVIDE THE DESIRED NC LEVELS WITHIN ROOMS.
12. WHERE PIPES AND DUCTS ARE SHOWN TO PENETRATE FLOORS, PROVIDE SLEEVED OPENINGS WITH THE TOP EDGE RAISED ABOVE FLOOR SURFACE IN ACCORDANCE WITH ALL RELEVANT SPEC SECTIONS. SEAL SLEEVE PERIMETER TO BE WATERTIGHT.
13. EQUIPMENT SIZES AND SERVICE CLEARANCE REQUIREMENTS VARY AMONG DIFFERENT MANUFACTURERS. CONSULT APPROVED SHOP DRAWINGS FOR EQUIPMENT SIZES AND REQUIRED SERVICE CLEARANCES. COORDINATE WITH LAYOUT OF EQUIPMENT PADS, PIPING, DUCTWORK, ETC.
14. DO NOT BLOCK TUBE PULL OR EQUIPMENT SERVICE CLEARANCES.
15. MAINTAIN MINIMUM 3'-6" CLEARANCE IN FRONT OF ALL ELECTRICAL PANELS, MOTOR STARTERS, SWITCHES, AND DISCONNECTS.
16. PROVIDE CONCRETE EQUIPMENT PAD FOR ALL FLOOR MOUNTED EQUIPMENT. PAD SHALL EXTEND MINIMUM 6" BEYOND ALL SIDES OF EQUIPMENT.
17. DO NOT SUPPORT EQUIPMENT, PIPING, OR DUCTWORK FROM METAL DECKING OR OTHER NON-STRUCTURAL BUILDING ELEMENTS. ANCHORS EMBEDDED IN CONCRETE SHALL BE CRACKED CONCRETE APPROVED IN ACCORDANCE WITH SPECIFICATIONS.

MECHANICAL RENOVATION NOTES:

THESE NOTES APPLY TO ALL MECHANICAL SHEETS AND TRADES, INCLUDING BUT NOT LIMITED TO, PLUMBING, VENTILATION, PIPING AND TEMPERATURE CONTROL.

1. EXISTING CONDITIONS ARE SHOWN BASED ON INFORMATION OBTAINED FROM FIELD SURVEYS, EXISTING BUILDING DOCUMENTS, AND STAFF. VERIFY EXISTING CONDITIONS AND REPORT ANY CONFLICTS BEFORE PROCEEDING.
2. NOT ALL EXISTING DUCTWORK AND PIPING IS SHOWN. VERIFY EXISTING CONDITIONS BEFORE STARTING WORK. NOTIFY ENGINEER OF ANY CONFLICTS WITH NEW WORK.
3. FIELD VERIFY THE AVAILABLE CLEARANCES FOR DUCTWORK AND PIPING BEFORE FABRICATION. RISES AND DROPS MAY BE NECESSARY BECAUSE OF EXISTING FIELD CONDITIONS.
4. EACH CONTRACTOR SHALL CUT AND PATCH ROOFS, WALLS, AND FLOORS ASSOCIATED WITH HIS WORK.
5. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR REMOVAL AND REPLACEMENT OF CEILINGS, CEILING TILES, AND CEILING GRIDS ASSOCIATED WITH AREAS OF WORK BY ALL CONTRACTORS. NOTIFY THE GENERAL CONTRACTOR OF AFFECTED AREAS PRIOR TO BIDDING.
6. WHERE EXISTING MECHANICAL SYSTEMS ARE LOCATED IN AREAS THAT CONFLICT WITH NEW EQUIPMENT, PIPING, OR DUCTWORK TO BE INSTALLED, EACH CONTRACTOR SHALL EITHER ARRANGE NEW EQUIPMENT, PIPING, OR DUCTWORK IN SUCH A FASHION THAT IT DOES NOT CONFLICT WITH EXISTING SYSTEMS, OR REWORK EXISTING MECHANICAL SYSTEMS TO ALLOW FOR INSTALLATION OF NEW EQUIPMENT, PIPING, OR DUCTWORK.
7. PROVIDE TEMPORARY CONNECTIONS TO MAINTAIN EXISTING SYSTEMS IN SERVICE DURING CONSTRUCTION. MAINTAIN ACCESS TO EXISTING MECHANICAL INSTALLATIONS THAT REMAIN ACTIVE.
8. OBTAIN PERMISSION FROM OWNER BEFORE SHUTTING DOWN ANY SYSTEM FOR ANY REASON. MAINTAIN SERVICE TO ALL COMPONENTS THAT ARE TO REMAIN UNTIL NEW SYSTEMS ARE INSTALLED.
9. MAINTAIN EXISTING SYSTEM IN SERVICE UNTIL NEW SYSTEM IS COMPLETE AND READY FOR TIE IN AND SWITCHOVER. DRAIN SYSTEM ONLY TO MAKE SWITCHOVERS AND CONNECTIONS. OBTAIN PERMISSION FROM OWNER BEFORE PARTIALLY OR COMPLETELY DRAINING SYSTEM. MAKE CHANGEOVER TO NEW SYSTEMS WITH MINIMUM OUTAGE.
10. DISCONNECT AND REMOVE MECHANICAL DEVICES AND EQUIPMENT SERVING EQUIPMENT THAT HAS BEEN REMOVED.
11. EXISTING WINDOW AIR CONDITIONING UNITS REMOVED SHALL BE RETURNED TO THE OWNER.

MECHANICAL PHASING NOTES:

THESE NOTES APPLY TO ALL MECHANICAL SHEETS AND TRADES, INCLUDING BUT NOT LIMITED TO, PLUMBING, VENTILATION, PIPING AND TEMPERATURE CONTROL.

1. REFER TO ARCHITECTURAL DRAWINGS FOR GENERAL DESCRIPTION OF PHASES. REFER TO CONSTRUCTION MANAGER'S INSTRUCTIONS FOR MORE DETAILS AND PHASING SCHEDULES AND FOR CONCURRENT WORK. MECHANICAL, ELECTRICAL AND TECHNOLOGY DRAWINGS DEPICT THE INTENT OF THE FINAL DESIGN. THE MECHANICAL, ELECTRICAL, AND TECHNOLOGY DRAWINGS DO NOT DEPICT THE MEANS AND METHODS TO MEET THE REQUIREMENTS OF THE PHASING CRITERIA.
2. REVIEW PROJECT PHASING PLANS TO COORDINATE DEMOLITION WORK, OUTAGES, ETC. WITH AFFECTED ADJACENT AREAS.
3. PROVIDE TEMPORARY DUCTWORK, PIPING, SHUTOFF VALVES, ZONE VALVES, ZONE ALARMS, ETC. AS NEEDED TO MAINTAIN SERVICE TO ALL AREAS DURING ALL PHASES OF PROJECT.
4. INSTALL TEMPORARY DUCTWORK, PIPING, SHUTOFF VALVES, ETC. AS NECESSARY TO KEEP ALL OCCUPIED SPACES OPERATIONAL THROUGHOUT ALL PHASES OF THE PROJECT
5. PHASE DEMOLITION WORK TO MINIMIZE DOWNTIME.
6. EXISTING STEAM HEATING SYSTEM MUST BE LEFT OPERATIONAL TO PROVIDE BUILDING HEAT TO THE BUILDING THROUGH WINTER OF 2022/2023. HEATING AND CHILLED WATER SYSTEMS TO BE INSTALLED TO THE MAXIMUM EXTENT POSSIBLE, AND AT A MINIMUM TO THE EXTENT THAT THE REMAINING WORK TO REMOVE THE EXISTING STEAM HEATING SYSTEM AND INSTALL THE REMAINDER OF THE HEATING AND CHILLED WATER SYSTEMS CAN BE COMPLETED BETWEEN THE END OF WINTER 2022/2023 AND THE START OF WINTER 2023/2024. SYSTEMS SHALL BE OPERATIONAL AT THAT TIME.

TEMPERATURE CONTROL GENERAL NOTES:

1. REFER TO EQUIPMENT SCHEDULES TO CROSS REFERENCE WHICH CONTROL DIAGRAMS APPLY TO WHICH ITEMS OF EQUIPMENT. REFER TO TERMINAL AIR BOX (TAB) SCHEDULES FOR TEMP SENSOR REQUIREMENTS FOR EACH TAB.
2. EACH D.I., D.O., A.I. AND A.O. POINT SHOWN FOR ALL CONTROL DIAGRAMS SHALL BE DISCRETE FROM ALL OTHER POINTS EXCEPT AS SPECIFICALLY NOTED.
3. ALL WIRING, CONTROL COMPONENTS, DEVICES AND PROGRAMMING SHOWN ON THESE CONTROL DRAWINGS SHALL BE PROVIDED BY THE TCC UNLESS SPECIFICALLY NOTED OTHERWISE.
4. 4TEMPERATURE CONTROL CABLING, CONDUIT, BOXES, IDENTIFICATION: REFER TO THE SPECIFICATIONS FOR A COMPLETE LIST OF REQUIREMENTS. THE FOLLOWING SCHEDULE IS PROVIDED AS A CONVENIENCE. REFER TO SECTION 23 09 00 AND DIV 26 FOR ADDITIONAL DETAILED REQUIREMENTS.
   A. CABLE/WIRE JACKET COLOR: BLUE
   B. CONDUIT BOX COLOR ABOVE FINISHED CEILINGS AND UNFINISHED SPACES WITHOUT CEILINGS: BLUE
   C. CONDUIT BOX COLOR IN SPACES WITH EXPOSED FINISHED STRUCTURE: MILL FINISH TO BE FIELD PAINTED; COLOR TO BE SELECTED BY ARCHITECT.
   D. CABLE/WIRE INSTALLATION: IN CONDUIT.
5. ALL ACTUATORS SHALL BE OF THE ELECTRICAL TYPE FOR THIS PROJECT UNLESS AN ACTUATOR IS SPECIFICALLY INDICATED ON THE DRAWINGS OR SPECIFICATIONS TO BE PNEUMATIC.
6. ALL MODULATING DAMPER AND VALVE ACTUATORS SHOWN WITH POSITION FEEDBACK SHALL HAVE THE VALVE POSITION DISPLAYED ON GRAPHICAL SCREEN ADJACENT TO THE DAMPER/VALVE COMMAND SIGNAL. DISPLAYED VALVE POSITION SHALL BE FROM THE FEEDBACK DEVICE/CIRCUIT (OUTPUT SIGNAL FROM THE FMCS TO THE ACTUATOR IS NOT ACCEPTABLE)
7. MODULATING SIGNALS SHALL BE DISPLAYED AS % OPEN (SIGNALS DISPLAYED AS % CLOSED ARE NOT ACCEPTABLE).
8. PRESSURE TRANSMITTERS WHOSE SIGNAL IS UTILIZED FOR MAINTAINING DUCT STATIC PRESSURE SHALL BE WIRED DIRECTLY TO THE CONTROLLER THAT MODULATES FAN SPEED. SIGNAL SHALL BE COMPLETELY INDEPENDENT OF THE FMCS NETWORK.
9. PRESSURE TRANSMITTERS WHOSE SIGNAL IS UTILIZED FOR MAINTAINING DIFFERENTIAL PRESSURE OF ANY PUMPED WATER SYSTEM (E.G. HEATING HOT WATER, CHILLED WATER AND THE LIKE) SHALL BE WIRED DIRECTLY TO THE CONTROLLER THAT MODULATES PUMP SPEED. SIGNAL SHALL BE COMPLETELY INDEPENDENT OF THE FMCS NETWORK.
10. ALL CONTROL COMPONENTS SUCH AS RELAYS, SWITCHES, DDC CONTROLLERS, ETC. SHALL BE MOUNTED IN STEEL ENCLOSURES WITH STEEL MOUNTING BACKPLATES PER SPECIFICATION 23 09 00.
11. EACH CONTROL PANEL SHALL HAVE A LAMINATED COPY OF THE APPLICABLE SEQUENCE OF OPERATION AND CONTROL DIAGRAM INDICATING THE POINTS, COMPONENTS AND OPERATION OF EQUIPMENT ASSOCIATED WITH EACH PANEL. REFER TO SECTION [23 09 00] FOR ADDITIONAL REQUIREMENTS.
12. TCC SHALL WIRE THE CONTROL SIGNAL FROM THE ASSOCIATED AIR HANDLING UNIT RTU CONTROL PANEL TO CONTROL THE OPERATION OF SMOKE DAMPERS IN ACCORDANCE WITH SEQUENCE OF OPERATION. TCC SHALL PROVIDE ALL WIRING, CONDUIT, TRANSFORMERS, FUSING AND ALL OTHER ELECTRICAL COMPONENTS REQUIRED FOR COMPLETE INSTALLATION.
13. TCC SHALL EXTEND CONTROL SIGNAL FROM ADDRESSABLE RELAY DEVICE SERVING EACH AIR HANDLING UNIT. REFER TO ELECTRICAL DRAWINGS FOR LOCATIONS. TCC SHALL EXTEND AND TERMINATE WIRING AS REQUIRED FOR EQUIPMENT SHUTDOWN.
14. TCC SHALL PROVIDE POWER SUPPLIES FOR ALL 24VAC POWER REQUIREMENTS TO INCLUDE, BUT NOT LIMITED TO, FAN COIL UNIT CONTROLLERS, DAMPER AND VALVE ACTUATORS, BUILDING PRESSURE SENSORS, AND OTHER CONTROL COMPONENTS AND DEVICES. REFER TO CONTROLS SPECIFICATIONS FOR POWER SUPPLY REQUIREMENTS. PROVIDE LOW VOLTAGE WIRING FROM POWER SUPPLIES TO ALL CONTROLLERS, MONITORS, COMPONENTS AND DEVICES REQUIRING 24 VAC POWER. POWER SUPPLIES REQUIRED FOR A COMPLETE AND OPERATIONAL SYSTEM SHALL BE PROVIDED BY THE TEMPERATURE CONTROL CONTRACTOR. THE TEMPERATURE CONTROL CONTRACTOR SHALL PROVIDE FINANCIAL PROVISIONS WITHIN THEIR BID FOR THE ELECTRICAL CONTRACTOR TO PROVIDE BRANCH POWER TO THE ADDITIONAL POWER SUPPLIES. COORDINATE THE LOCATION OF ADDITIONAL POWER SUPPLY CABINET WITH THE ELECTRICAL CONTRACTOR.
15. TCC SHALL PROVIDE POWER SUPPLIES FOR ALL 120VAC POWER REQUIREMENTS TO INCLUDE, BUT NOT LIMITED TO, FAN COIL UNIT CONTROLLERS, DAMPER AND VALVE ACTUATORS, BUILDING PRESSURE SENSORS, AND OTHER CONTROL COMPONENTS AND DEVICES. POWER SUPPLIES REQUIRED FOR A COMPLETE AND OPERATIONAL SYSTEM SHALL BE PROVIDED BY THE TEMPERATURE CONTROL CONTRACTOR. THE TEMPERATURE CONTROL CONTRACTOR SHALL PROVIDE FINANCIAL PROVISIONS WITHIN THEIR BID FOR THE ELECTRICAL CONTRACTOR TO PROVIDE BRANCH POWER TO THE ADDITIONAL POWER SUPPLIES. COORDINATE THE LOCATION OF ADDITIONAL POWER SUPPLY CABINET WITH THE ELECTRICAL CONTRACTOR.
16. TCC SHALL PROVIDE CONDUIT RUNS AS REQUIRED FOR OUTDOOR EQUIPMENT AND FOR EQUIPMENT INSTALLED REMOTELY FROM THE MAIN BUILDING THAT IS BEING MONITORED OR CONTROLLED BY THE FMCS.
17. ELEMENT LENGTHS FOR BOTH MIXED AIR TEMP SENSORS AND LOW LIMIT TEMP SWITCHES SHALL BE MINIMUM 1 LINEAR FOOT PER SQUARE FOOT OF COIL SURFACE AREA. PROVIDE MULTIPLE SENSORS AND SWITCHES AS NEEDED TO ACHIEVE REQUIRED ELEMENT LENGTHS. LOCATE RESET SWITCHES MAX. 6'-6" ABOVE ADJACENT STANDING SURFACE (E.G. ROOF, PLATFORM OR FLOOR) SO THE RESET SWITCH CAN BE CYCLED WITHOUT THE NEED FOR A LADDER.
18. CONTROL DIAGRAMS ARE SCHEMATIC IN NATURE AND DO NOT SHOW ALL REQUIRED CONTROL DEVICES AND COMPONENTS. REFER TO FLOOR PLANS, FLOW DIAGRAMS AND DETAILS FOR ADDITIONAL CONTROL DEVICES, COMPONENTS AND REQUIREMENTS NOT SHOWN ON THESE CONTROL DRAWINGS.
19. TCC SHALL PROVIDE ALL CONTROL COMPONENTS AND ACCESSORIES AS REQUIRED FOR EQUIPMENT TO BE CONTROLLED AS DESCRIBED IN THE SEQUENCE OF OPERATION REGARDLESS OF WHETHER ALL CONTROL COMPONENTS OR POINTS ARE SHOWN IN THE ASSOCIATED CONTROL DIAGRAM.
20. EXISTING SPACE TEMPERATURE SENSORS/THERMOSTATS ARE NEW AS OF A REPLACEMENT PROJECT COMPLETED IN 2014/2015. WHERE NEW EQUIPMENT IS PROVIDED IN A ROOM WITH AN EXISTING NEWER TEMPERATURE SENSOR, THE EXISTING TEMPERATURE SENSOR SHALL BE REUSED. WHERE NO TEMPERATURE SENSOR EXISTS OR THE EXISTING TEMPERATURE SENSOR IS OLD THE FOLLOWING SHALL TAKE PLACE:
   A. SPACES WITH FLOOR MOUNTED VERTICAL FAN COIL UNITS SHALL UTILIZE INTERNAL TEMPERATURE SENSORS AND NO ADDITIONAL SPACE TEMPERATURE SENSOR SHALL BE PROVIDED. TCC SHALL PROVIDE ZONE THERMOSTAT UNIT MOUNTED THAT INTERFACES WITH A FACTORY PROVIDED LOW VOLTAGE INTERFACE BOARD. FOR ROOMS WITH MULTIPLE THERMOSTATS (UNITS), AVERAGE THE ZONE TEMPERATURE WITH OTHER SENSORS AND CONTROL ALL UNITS TOGETHER.
   B. SPACES WITH CEILING MOUNTED, HORIZONTAL FAN COIL UNITS SHALL HAVE A NEW, WALL MOUNTED, SENSOR ONLY TEMPERATURE SENSOR PROVIDED.
21. IN GENERAL, ALL TEMPERATURE SENSORS/THERMOSTATS SHALL MATCH THE HEIGHT OF ADJACENT ELECTRICAL SWITCHES AND OTHER WALL MOUTNED DEVICES. CORRIDOR SENSORS OR WHERE CONCERNED ABOUT INCIDENTAL DAMAGE SHALL BE LOCATED AT 72" AFF. SENSORS LOCATED IN GYMNASIUMS, POOLS, LOCKER ROOMS, ETC SHALL INCLUDE A HEAVY DUTY CAGE.

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REVISIONS

No.	Date	Revision / Issue

SHEET INFORMATION

Issue	BID DOCUMENTS
Date	JANUARY 28, 2022
Job Number	21002885.04
Drawn	BRAGAR
Checked	ALIHAM
Approved	BRAGAR

SHEET TITLE

TEMPERATURE CONTROL COVERSHEET

SCALE

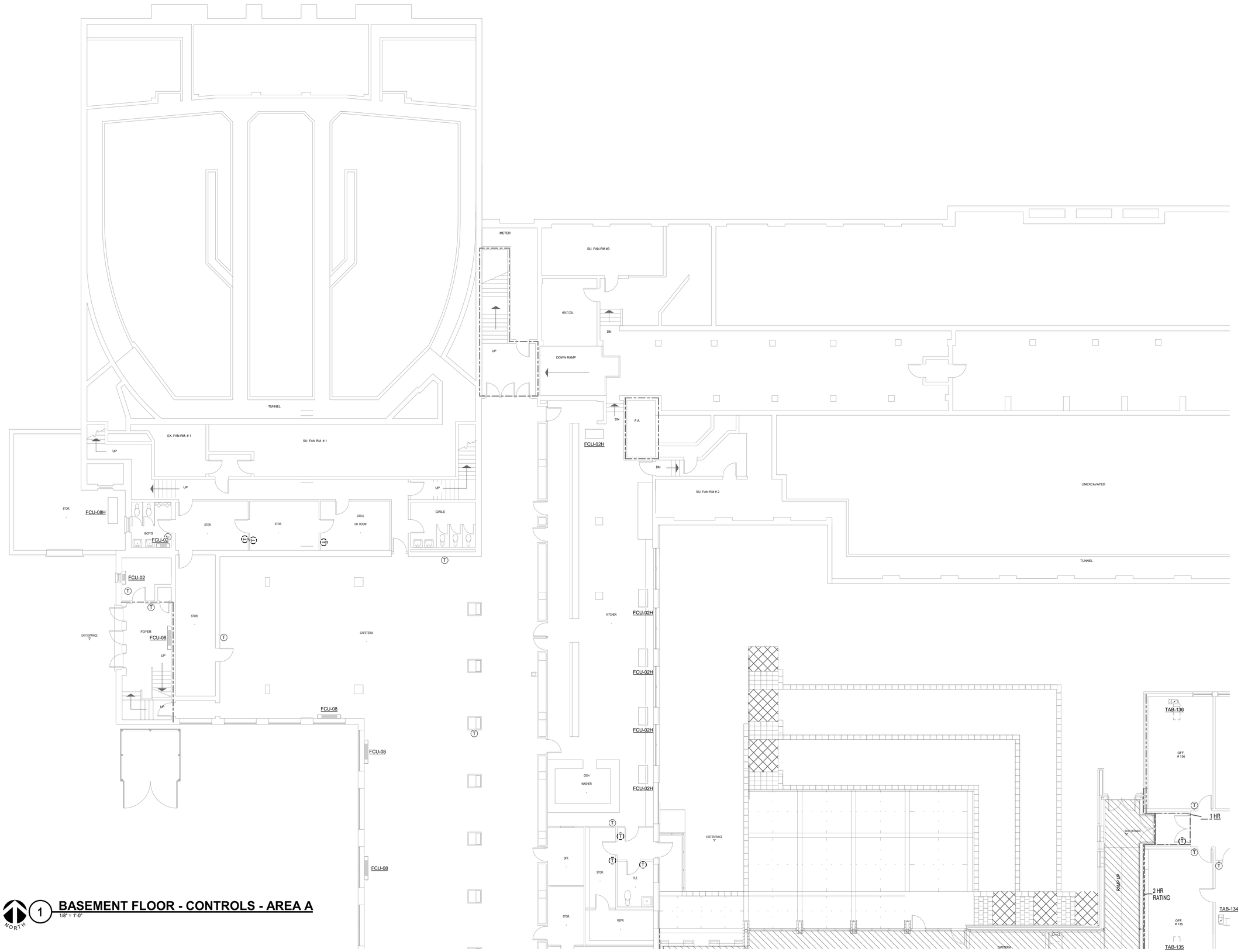
Scale: As indicated

SHEET NUMBER

MC000

GENERAL SHEET NOTES:

1. ALL ROOMS WITH NEW FLOOR MOUNTED FAN COIL UNITS SHALL USE THE INTERNAL TEMPERATURE SENSOR TO CONTROL THE FAN COIL UNIT. EXISTING THERMOSTATS, AND ASSOCIATED WIRING, IN THESE SPACES SHALL BE REMOVED AND JUNCTION BOXES SHALL BE COVERED WITH A NEW BLANK COVER PLATE.



NORTH

1 BASEMENT FLOOR - CONTROLS - AREA A

1/8" = 1'-0"

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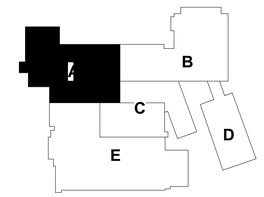

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Checked	**ALIHAM**
Approved	**BRAGAR**

SHEET TITLE

BASEMENT FLOOR - CONTROLS - AREA A

SCALE

Scale: **As indicated**

SHEET NUMBER

MC200A

21002885.04 1/28/2022 1:14:07 PM ESSER HVAC Improvements - East High School

GENERAL SHEET NOTES:

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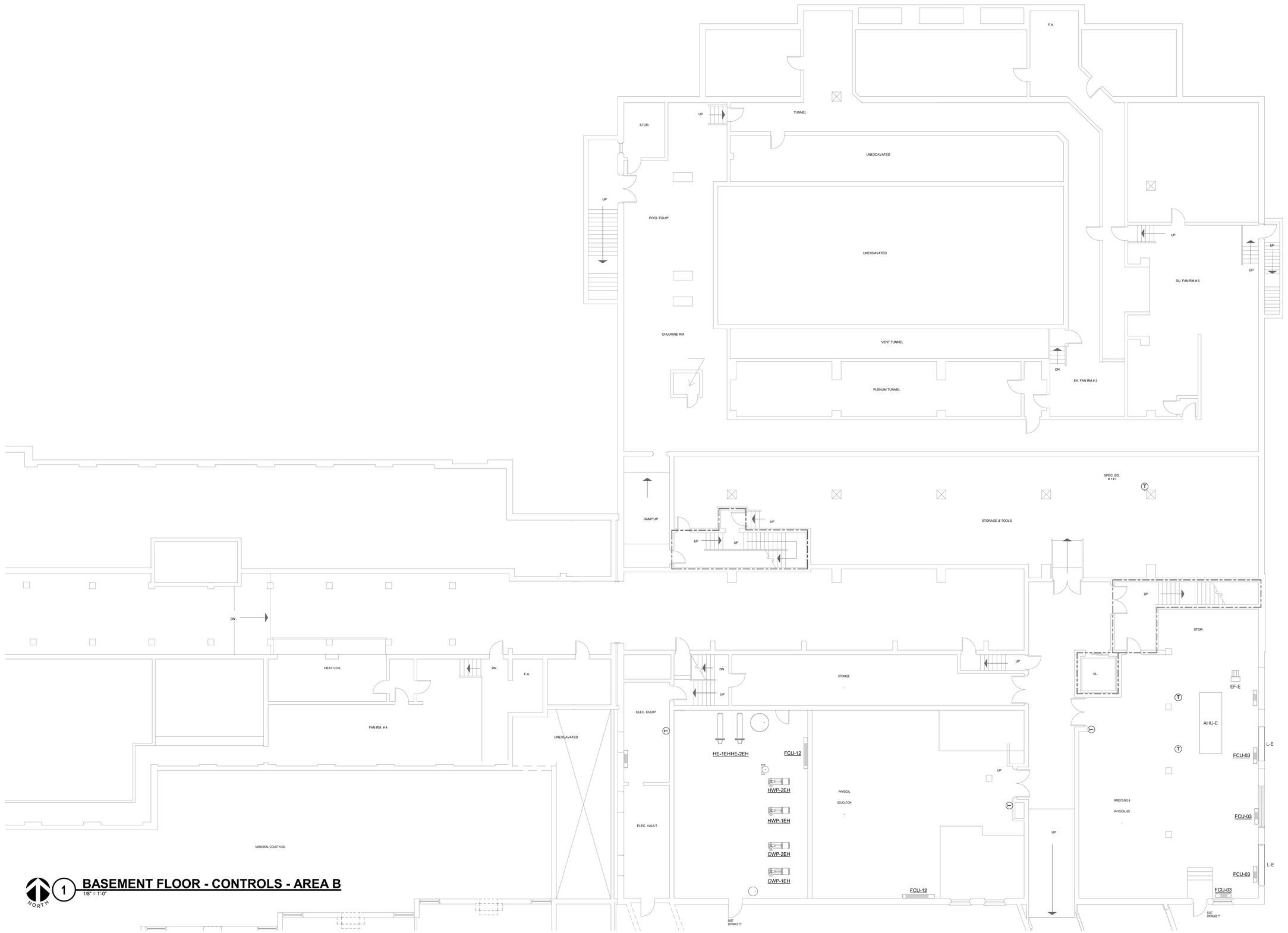

1 BASEMENT FLOOR - CONTROLS - AREA B

1/8" = 1'-0"

1/28/2022 1:14:12 PM

ESSER HVAC Improvements - East High School

21002885.04

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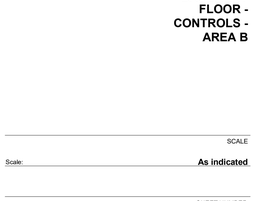

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Job Number	21002885.04
Drawn	BRAGAR
Checked	ALIHAM
Approved	BRAGAR

SHEET TITLE

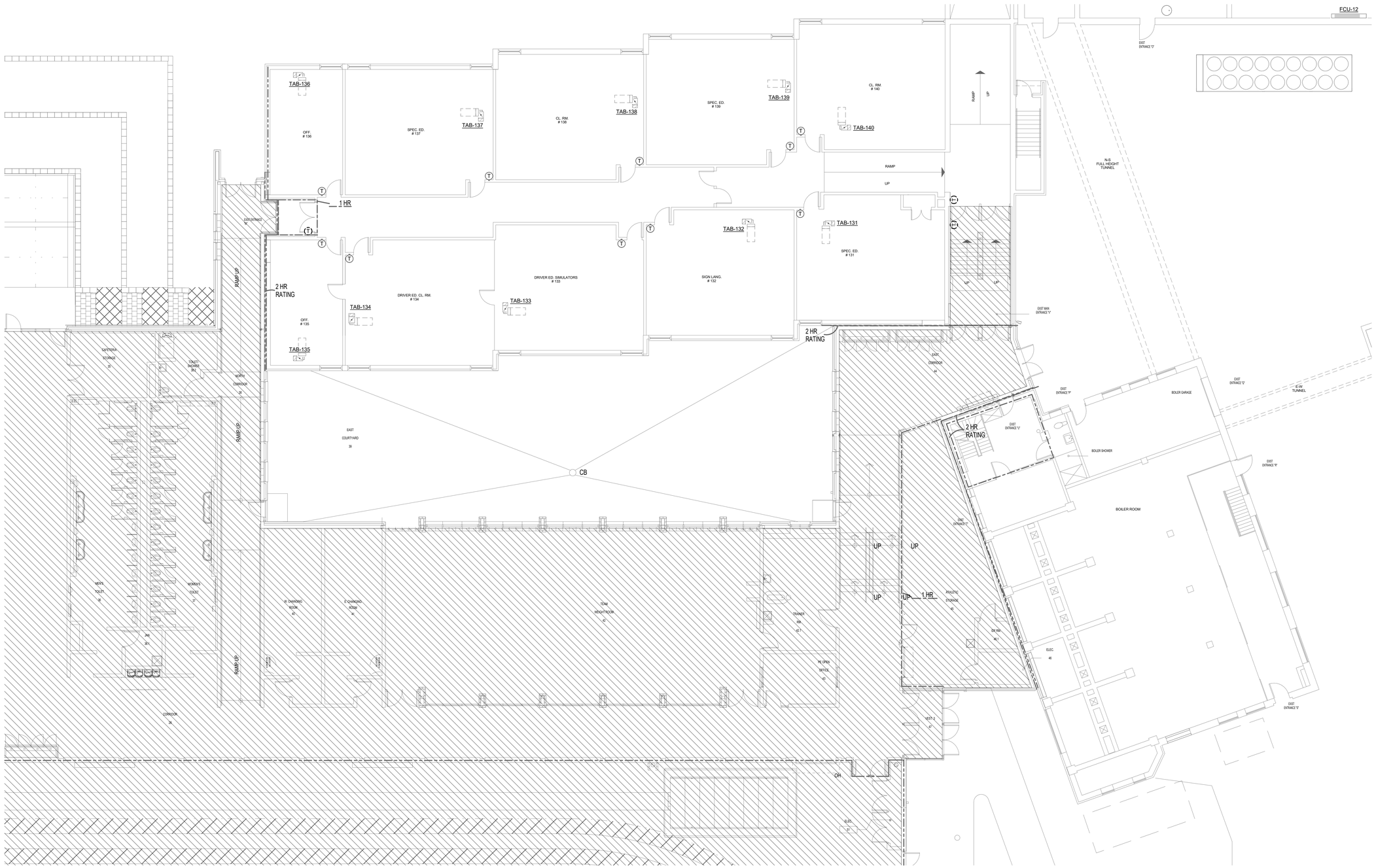
BASEMENT FLOOR - CONTROLS - AREA B

SCALE

Scale: As indicated

SHEET NUMBER

MC200B



1 **BASEMENT FLOOR - CONTROLS - AREA C**
1/8" = 1'-0"

NORTH

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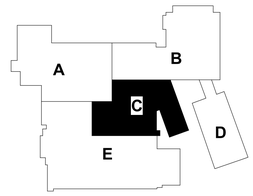

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Drawn	**BRAGAR**
Checked	**ALIHAM**
Approved	**BRAGAR**

SHEET TITLE

BASEMENT FLOOR - CONTROLS - AREA C

SCALE

Scale: **As indicated**

SHEET NUMBER

MC200C

21002885.04 1/28/2022 1:14:15 PM ESSER HVAC Improvements - East High School

1 NORTH

BASEMENT FLOOR - CONTROLS - AREA D

1/8" = 1'-0"

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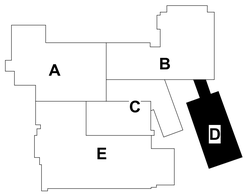

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Drawn	**BRAGAR**
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SHEET TITLE

BASEMENT FLOOR - CONTROLS - AREA D

SCALE

Scale: **As indicated**

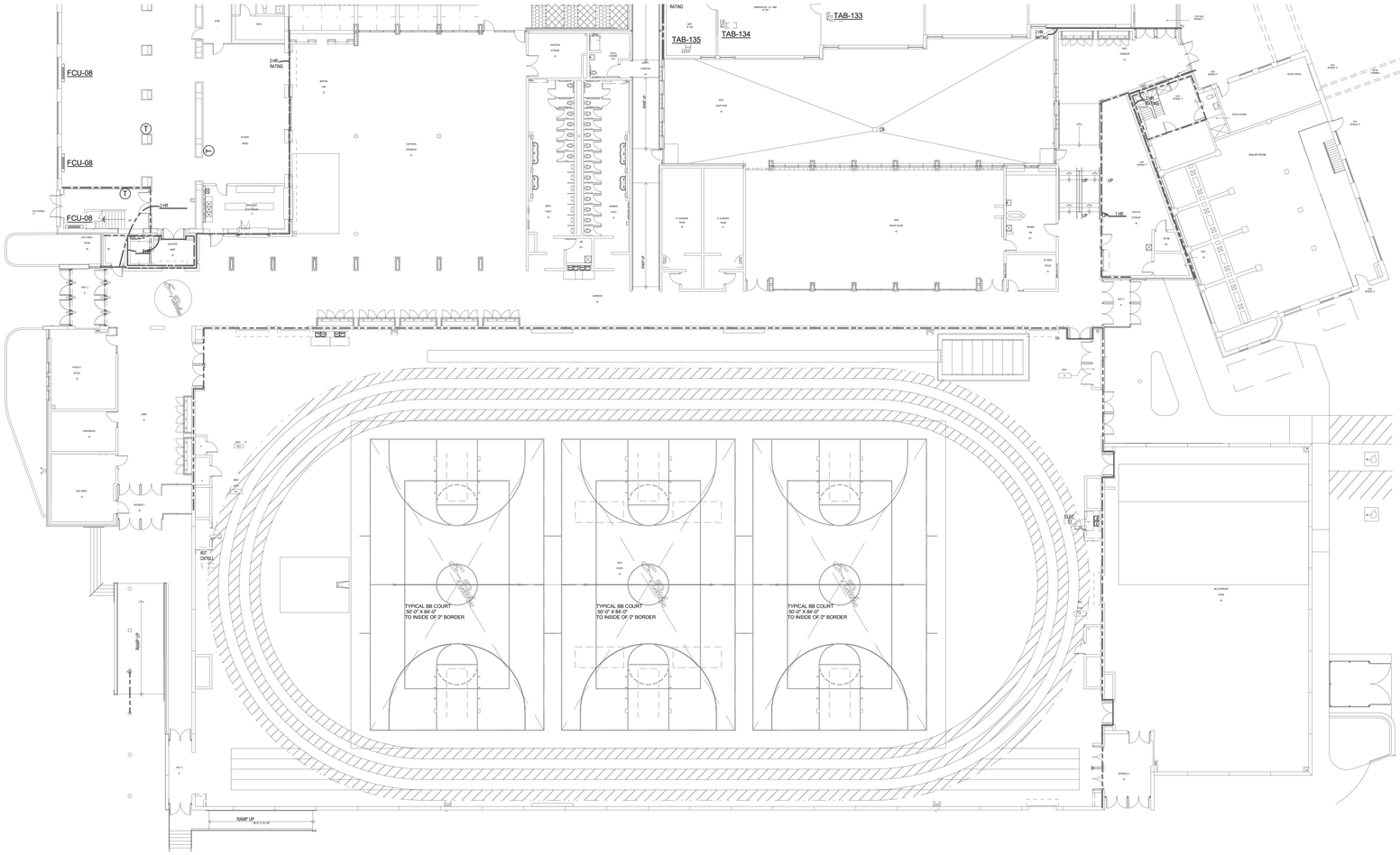
SHEET NUMBER

MC200D

21002885.04 1/28/2022 1:14:18 PM ESSER HVAC Improvements - East High School

GENERAL SHEET NOTES:

1. ALL ROOMS WITH NEW FLOOR MOUNTED FAN COIL UNITS SHALL USE THE INTERNAL TEMPERATURE SENSOR TO CONTROL THE FAN COIL UNIT. EXISTING THERMOSTATS, AND ASSOCIATED WIRING, IN THESE SPACES SHALL BE REMOVED AND JUNCTION BOXES SHALL BE COVERED WITH A NEW BLANK COVER PLATE.



NORTH

1 BASEMENT FLOOR - CONTROLS - AREA E

1/16" = 1'-0"

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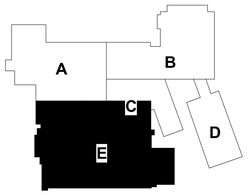

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Drawn	**BRAGAR**
Checked	**ALIHAM**
Approved	**BRAGAR**

SHEET TITLE

BASEMENT FLOOR - CONTROLS - AREA E

SCALE

Scale: **As indicated**

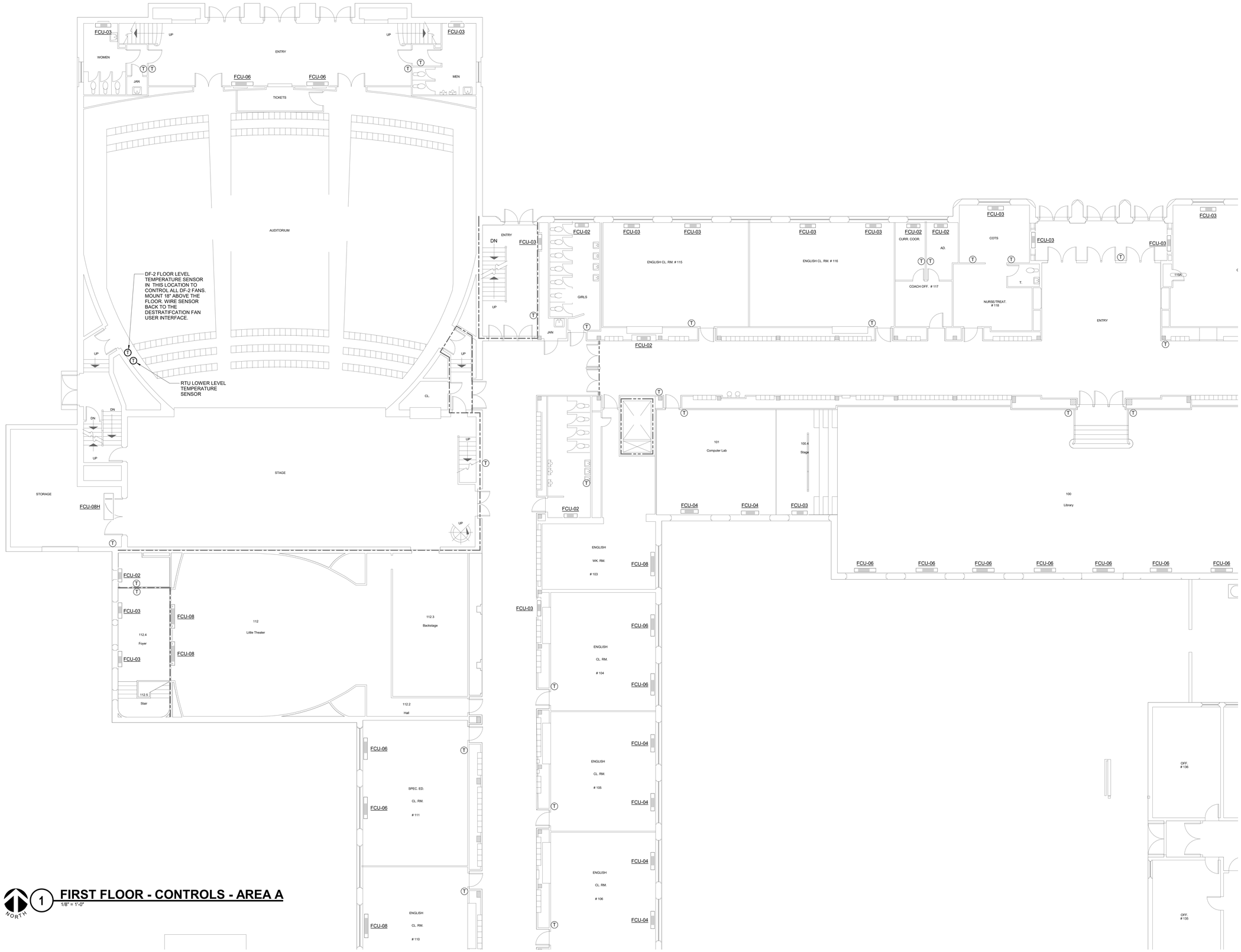
SHEET NUMBER

MC200E

21002885.04 1/28/2022 1:14:22 PM ESSER HVAC Improvements - East High School

GENERAL SHEET NOTES:

1. ALL ROOMS WITH NEW FLOOR MOUNTED FAN COIL UNITS SHALL USE THE INTERNAL TEMPERATURE SENSOR TO CONTROL THE FAN COIL UNIT. EXISTING THERMOSTATS, AND ASSOCIATED WIRING, IN THESE SPACES SHALL BE REMOVED AND JUNCTION BOXES SHALL BE COVERED WITH A NEW BLANK COVER PLATE.



NORTH 1 **FIRST FLOOR - CONTROLS - AREA A**
1/8" = 1'-0"

21002885.04 1/28/2022 1:14:26 PM ESSER HVAC Improvements - East High School

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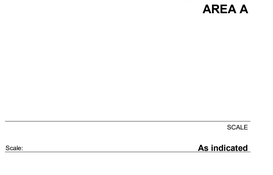

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Job Number	**21002885.04**
Drawn	**BRAGAR**
Checked	**ALIHAM**
Approved	**BRAGAR**

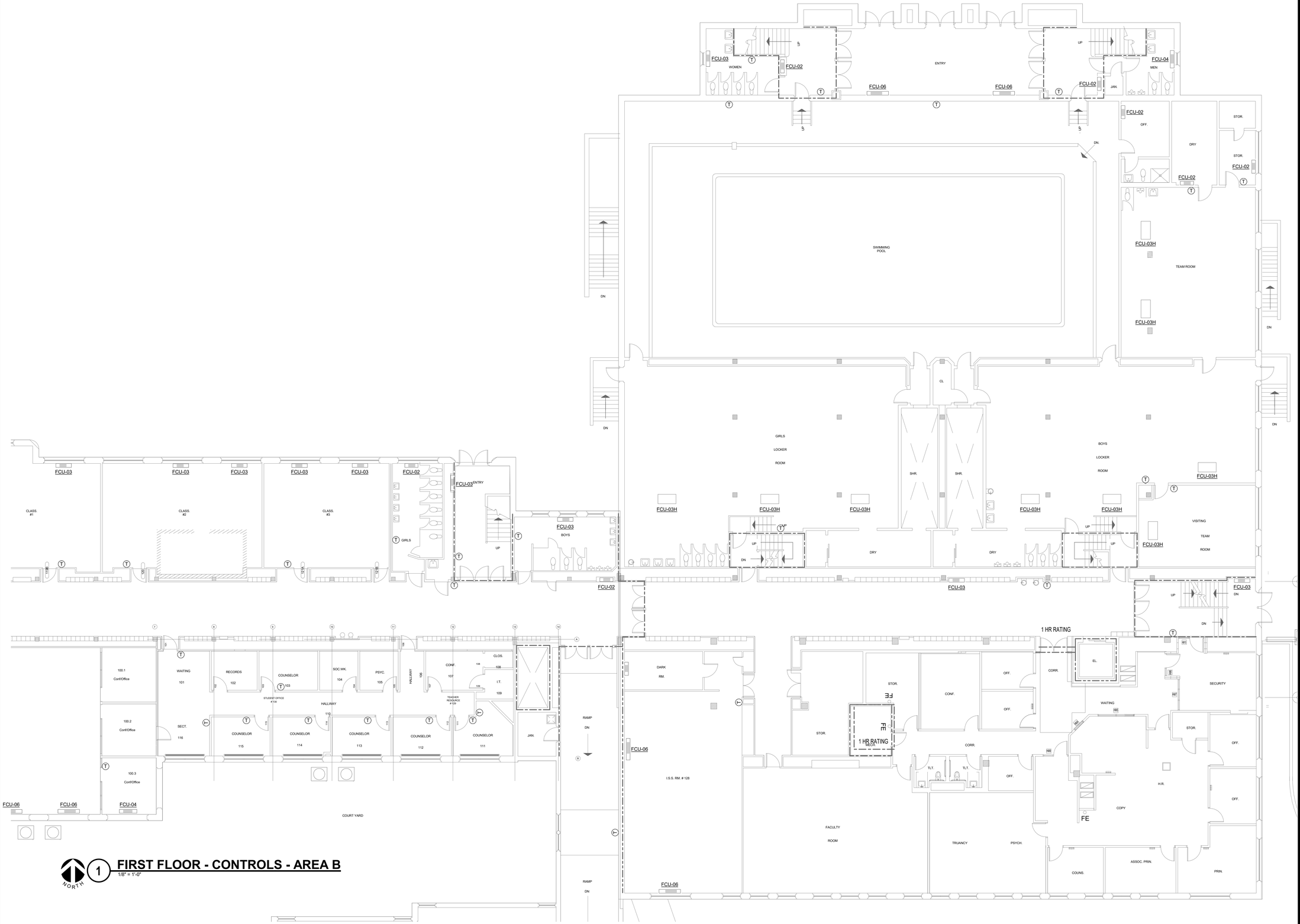
SHEET TITLE
FIRST FLOOR - CONTROLS - AREA A

SCALE
Scale: **As indicated**

SHEET NUMBER
MC201A

GENERAL SHEET NOTES:

1. ALL ROOMS WITH NEW FLOOR MOUNTED FAN COIL UNITS SHALL USE THE INTERNAL TEMPERATURE SENSOR TO CONTROL THE FAN COIL UNIT. EXISTING THERMOSTATS, AND ASSOCIATED WIRING, IN THESE SPACES SHALL BE REMOVED AND JUNCTION BOXES SHALL BE COVERED WITH A NEW BLANK COVER PLATE.



NORTH

1 FIRST FLOOR - CONTROLS - AREA B

1/8" = 1'-0"

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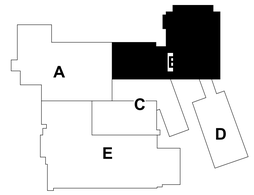

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SHEET TITLE

FIRST FLOOR - CONTROLS - AREA B

SCALE

Scale: As indicated

SHEET NUMBER

MC201B

21002885.04 1/28/2022 1:14:29 PM ESSER HVAC Improvements - East High School

GENERAL SHEET NOTES:

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FIRST FLOOR - CONTROLS - AREA E

1/16" = 1'-0"

NORTH

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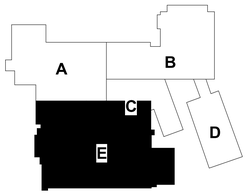
KEY PLAN



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REVISIONS

No.	Date	Revision / Issue

SHEET INFORMATION

Issue	**BID DOCUMENTS**
Date	**JANUARY 28, 2022**
Job Number	**21002885.04**
Drawn	**BRAGAR**
Checked	**ALIHAM**
Approved	**BRAGAR**

SHEET TITLE

FIRST FLOOR - CONTROLS - AREA E

SCALE

Scale: **As indicated**

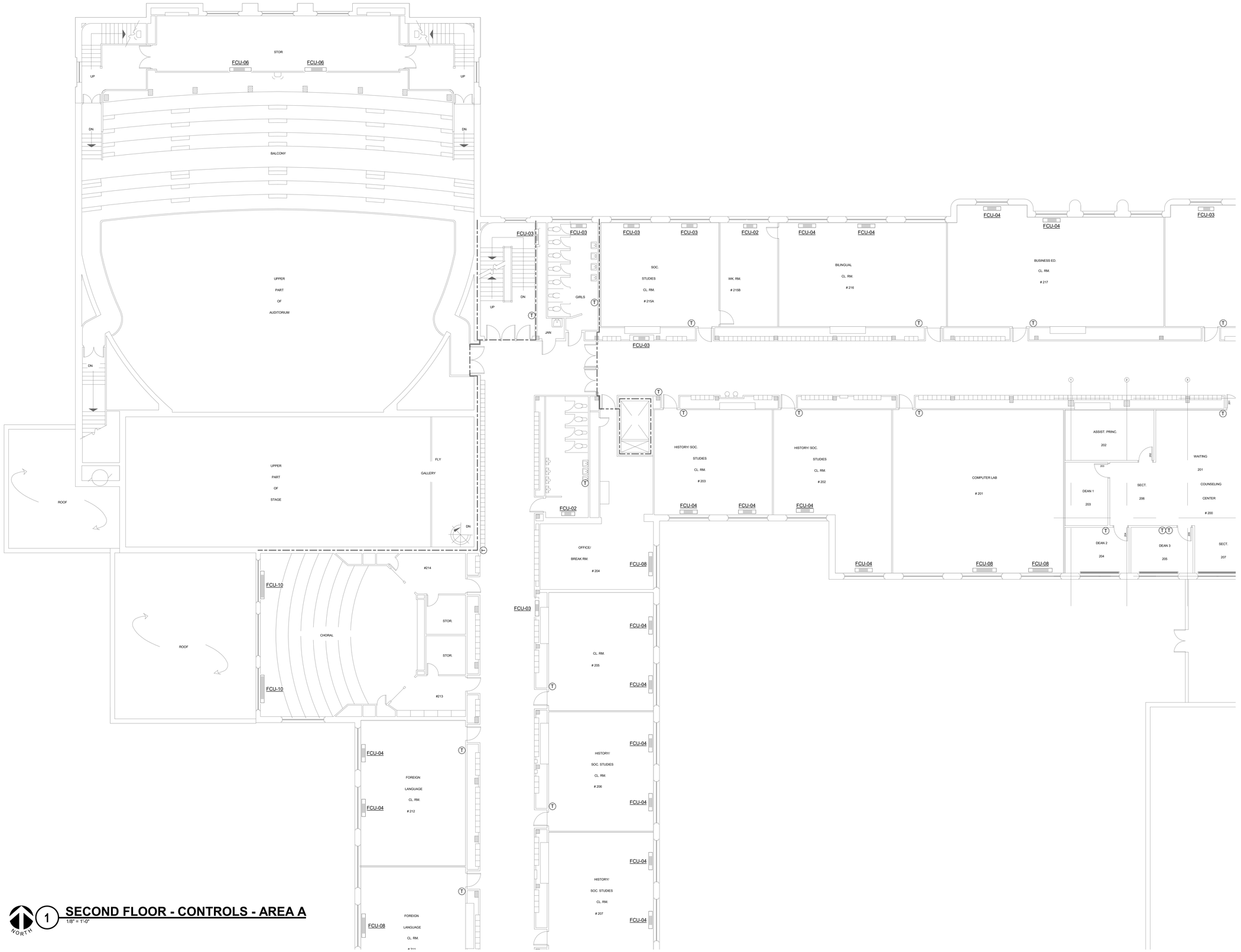
SHEET NUMBER

MC201E

21002885.04 1/28/2022 1:14:32 PM ESSER HVAC Improvements - East High School

GENERAL SHEET NOTES:

1. ALL ROOMS WITH NEW FLOOR MOUNTED FAN COIL UNITS SHALL USE THE INTERNAL TEMPERATURE SENSOR TO CONTROL THE FAN COIL UNIT. EXISTING THERMOSTATS, AND ASSOCIATED WIRING, IN THESE SPACES SHALL BE REMOVED AND JUNCTION BOXES SHALL BE COVERED WITH A NEW BLANK COVER PLATE.



1 SECOND FLOOR - CONTROLS - AREA A

1/8" = 1'-0"

NORTH

21002885.04 1/28/2022 1:14:36 PM ESSER HVAC Improvements - East High School

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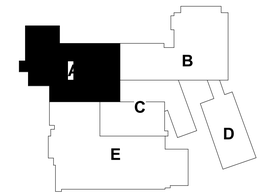
KEY PLAN



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Drawn	**BRAGAR**
Checked	**ALIHAM**
Approved	**BRAGAR**

SHEET TITLE

SECOND FLOOR - CONTROLS - AREA A

SCALE

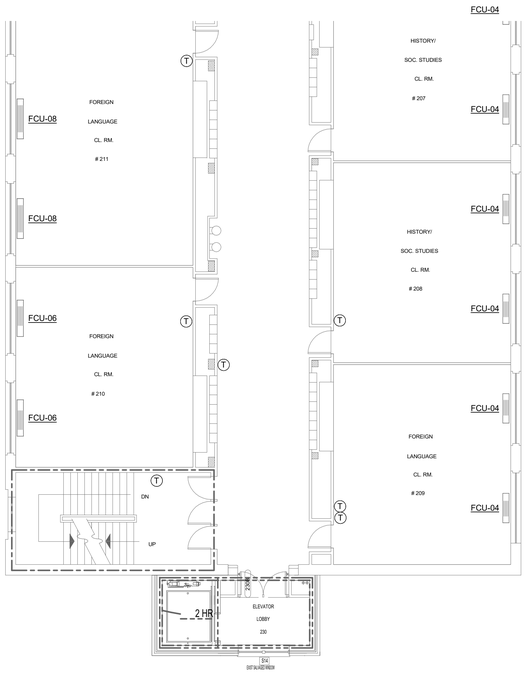
Scale: **As indicated**

SHEET NUMBER

MC202A

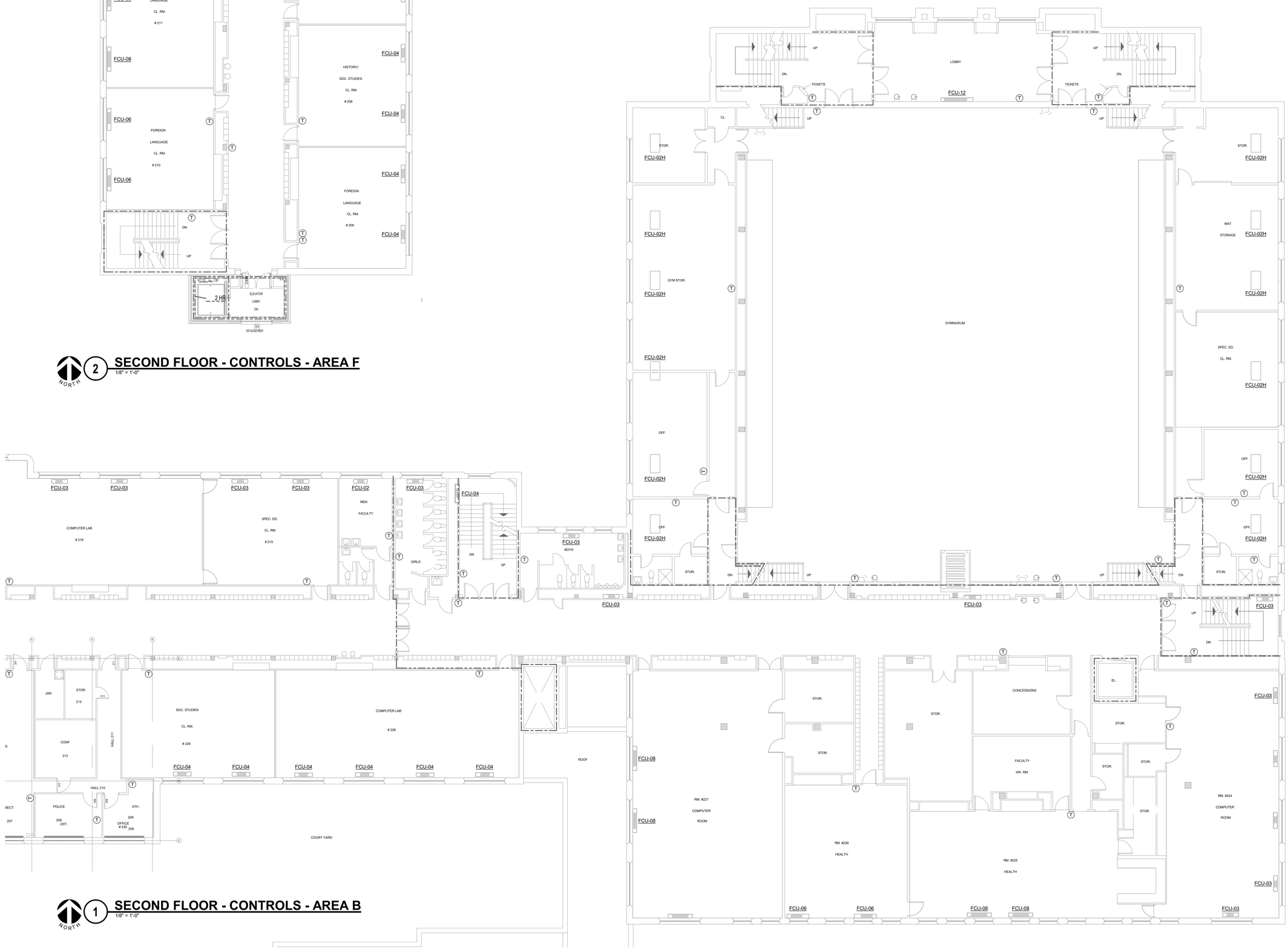
GENERAL SHEET NOTES:

1. ALL ROOMS WITH NEW FLOOR MOUNTED FAN COIL UNITS SHALL USE THE INTERNAL TEMPERATURE SENSOR TO CONTROL THE FAN COIL UNIT. EXISTING THERMOSTATS, AND ASSOCIATED WIRING, IN THESE SPACES SHALL BE REMOVED AND JUNCTION BOXES SHALL BE COVERED WITH A NEW BLANK COVER PLATE.



2 SECOND FLOOR - CONTROLS - AREA F

1/8" = 1'-0"



1 SECOND FLOOR - CONTROLS - AREA B

1/8" = 1'-0"

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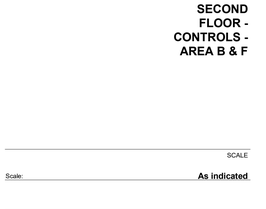

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Checked	**ALIHAM**
Approved	**BRAGAR**

SHEET TITLE

SECOND FLOOR - CONTROLS - AREA B & F

SCALE

Scale: **As indicated**

SHEET NUMBER

MC202B

21002885.04 1/28/2022 1:14:41 PM ESSER HVAC Improvements - East High School

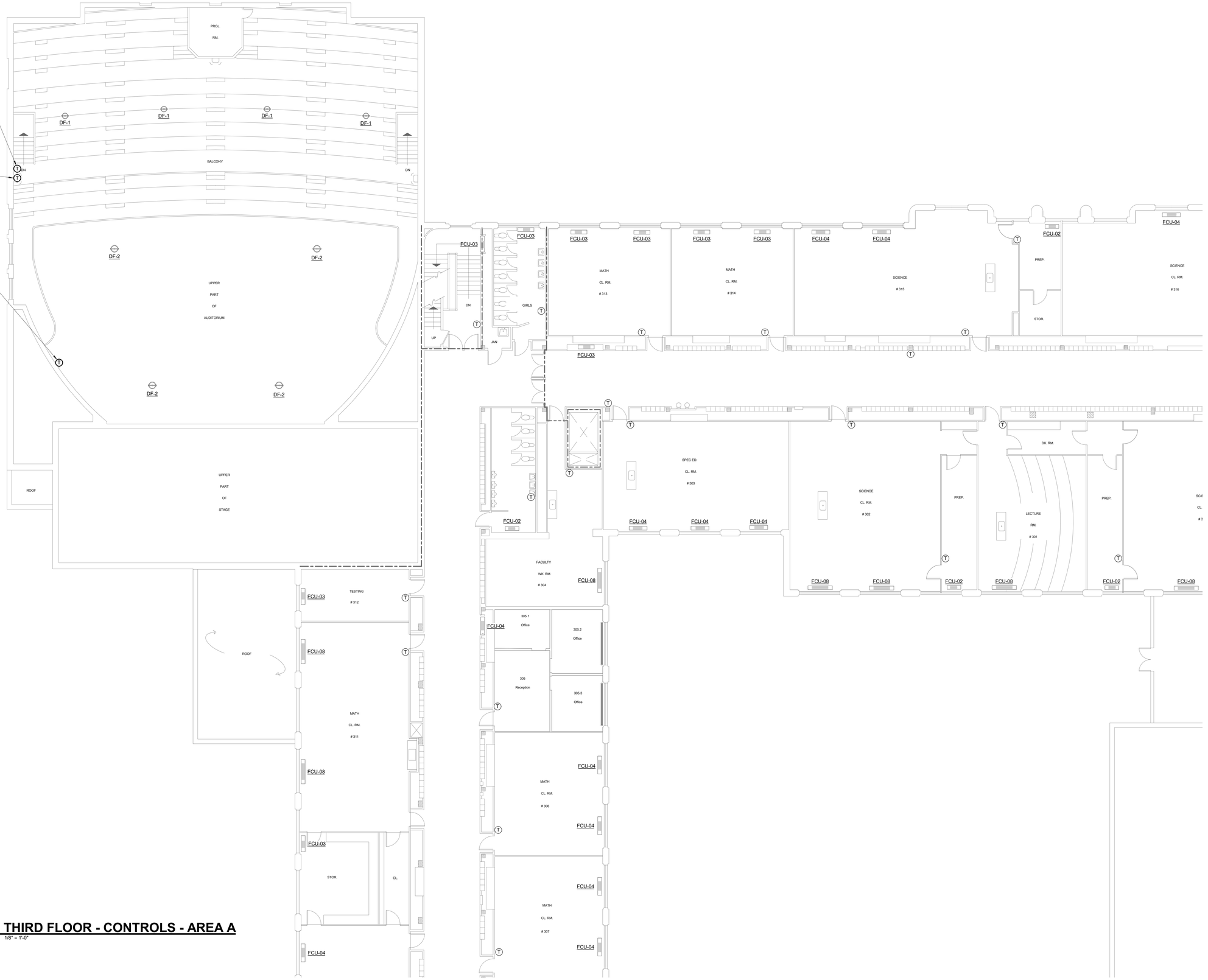
GENERAL SHEET NOTES:

1. ALL ROOMS WITH NEW FLOOR MOUNTED FAN COIL UNITS SHALL USE THE INTERNAL TEMPERATURE SENSOR TO CONTROL THE FAN COIL UNIT. EXISTING THERMOSTATS, AND ASSOCIATED WIRING, IN THESE SPACES SHALL BE REMOVED AND JUNCTION BOXES SHALL BE COVERED WITH A NEW BLANK COVER PLATE.

TWO TEMPERATURE SENSORS IN THIS LOCATION CONTROL ALL DF-1 FANS. MOUNT ONE SENSOR AT 12" BELOW THE CEILING AND THE OTHER 18" ABOVE THE FLOOR. WIRE SENSORS BACK TO THE DESTRATIFCATION FAN USER INTERFACE.

RTU BALCONY TEMPERATURE SENSOR

DF-2 CEILING LEVEL TEMPERATURE SENSOR IN THIS LOCATION TO CONTROL ALL DF-2 FANS. MOUNT 12" BELOW THE CEILING. WIRE SENSOR BACK TO THE DESTRATIFCATION FAN USER INTERFACE.



1 THIRD FLOOR - CONTROLS - AREA A

1/8" = 1'-0"

NORTH

21002885.04 1/28/2022 1:14:44 PM ESSER HVAC Improvements - East High School

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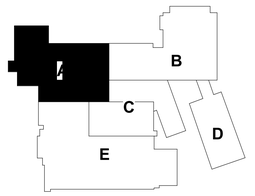

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Drawn	**BRAGAR**
Checked	**ALIHAM**
Approved	**BRAGAR**

SHEET TITLE

THIRD FLOOR - CONTROLS - AREA A

SCALE

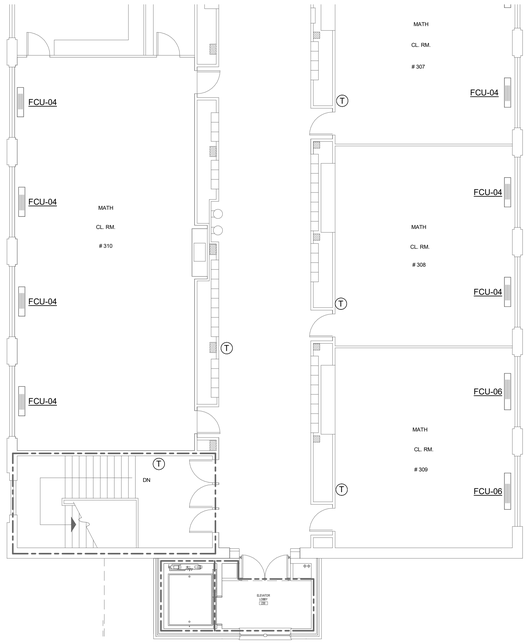
Scale: **As indicated**

SHEET NUMBER

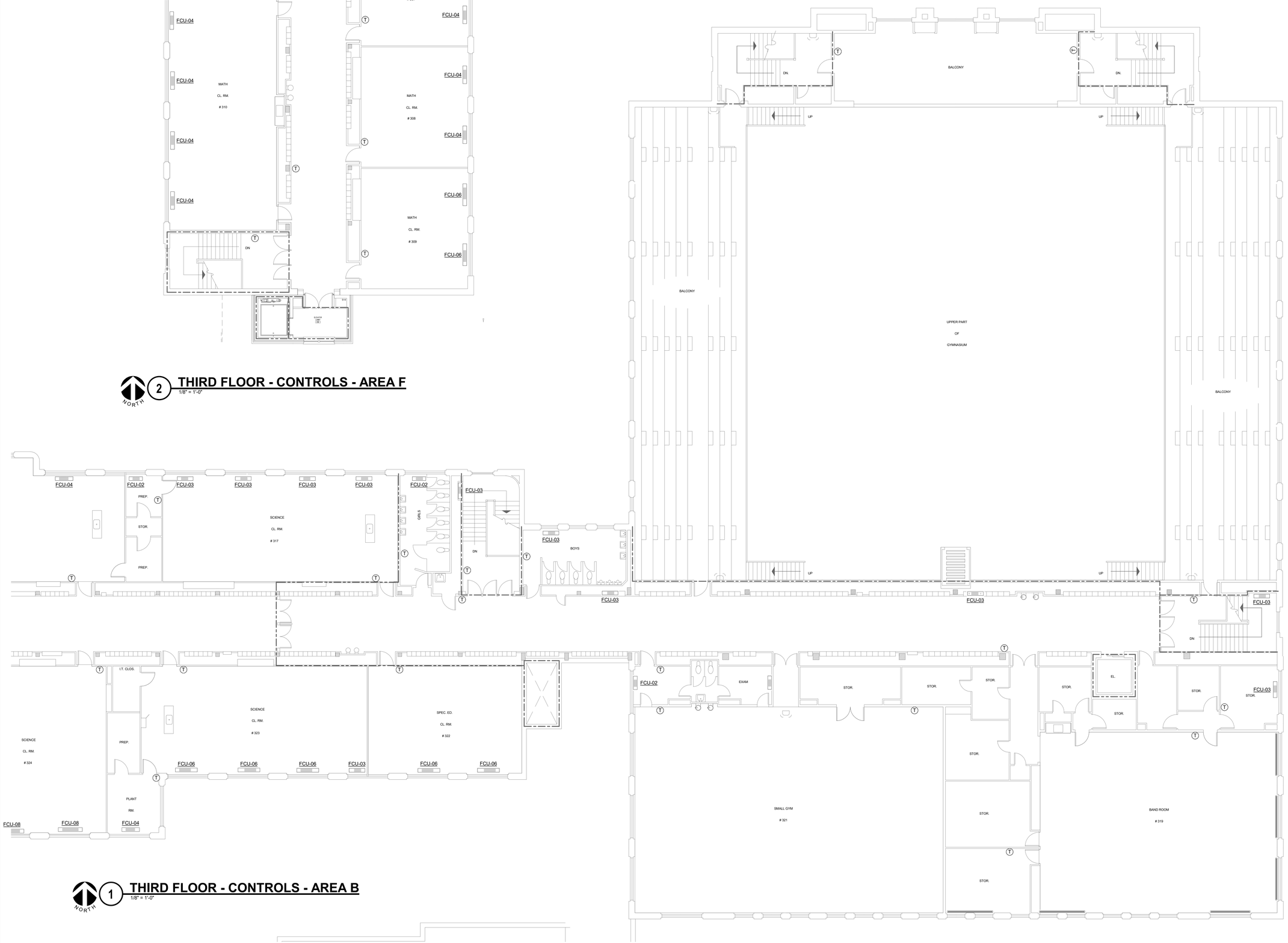
MC203A

GENERAL SHEET NOTES:

1. ALL ROOMS WITH NEW FLOOR MOUNTED FAN COIL UNITS SHALL USE THE INTERNAL TEMPERATURE SENSOR TO CONTROL THE FAN COIL UNIT. EXISTING THERMOSTATS, AND ASSOCIATED WIRING, IN THESE SPACES SHALL BE REMOVED AND JUNCTION BOXES SHALL BE COVERED WITH A NEW BLANK COVER PLATE.



NORTH 2 **THIRD FLOOR - CONTROLS - AREA F**
1/8" = 1'-0"



NORTH 1 **THIRD FLOOR - CONTROLS - AREA B**
1/8" = 1'-0"

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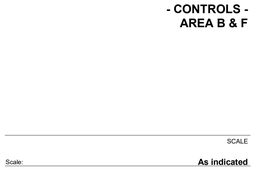
KEY PLAN



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Drawn	**BRAGAR**
Checked	**ALIHAM**
Approved	**BRAGAR**

SHEET TITLE

THIRD FLOOR - CONTROLS - AREA B & F

SCALE

Scale: **As indicated**

SHEET NUMBER

MC203B

21002885.04 1/28/2022 1:14:47 PM ESSER HVAC Improvements - East High School

GENERAL SHEET NOTES:

1. ALL ROOMS WITH NEW FLOOR MOUNTED FAN COIL UNITS SHALL USE THE INTERNAL TEMPERATURE SENSOR TO CONTROL THE FAN COIL UNIT. EXISTING THERMOSTATS, AND ASSOCIATED WIRING, IN THESE SPACES SHALL BE REMOVED AND JUNCTION BOXES SHALL BE COVERED WITH A NEW BLANK COVER PLATE.

1 ROOF - CONROLS - AREA A

1/8" = 1'-0"

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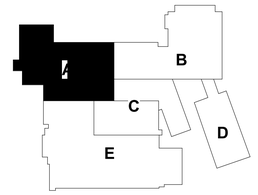

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Drawn	**BRAGAR**
Checked	**ALIHAM**
Approved	**BRAGAR**

SHEET TITLE

ROOF - CONTROLS - AREA A

SCALE

Scale: **As indicated**

SHEET NUMBER

MC204A

21002885.04 1/28/2022 1:14:50 PM ESSER HVAC Improvements - East High School

GENERAL SHEET NOTES:

1. ALL ROOMS WITH NEW FLOOR MOUNTED FAN COIL UNITS SHALL USE THE INTERNAL TEMPERATURE SENSOR TO CONTROL THE FAN COIL UNIT. EXISTING THERMOSTATS, AND ASSOCIATED WIRING, IN THESE SPACES SHALL BE REMOVED AND JUNCTION BOXES SHALL BE COVERED WITH A NEW BLANK COVER PLATE.

1 ROOF - CONROLS - AREA B

1/8" = 1'-0"

NORTH

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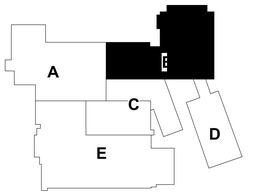

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SHEET TITLE

ROOF - CONTROLS - AREA B

SCALE

Scale: **As indicated**

SHEET NUMBER

MC204B

21002885.04 1/28/2022 1:14:52 PM ESSER HVAC Improvements - East High School

GENERAL SHEET NOTES:

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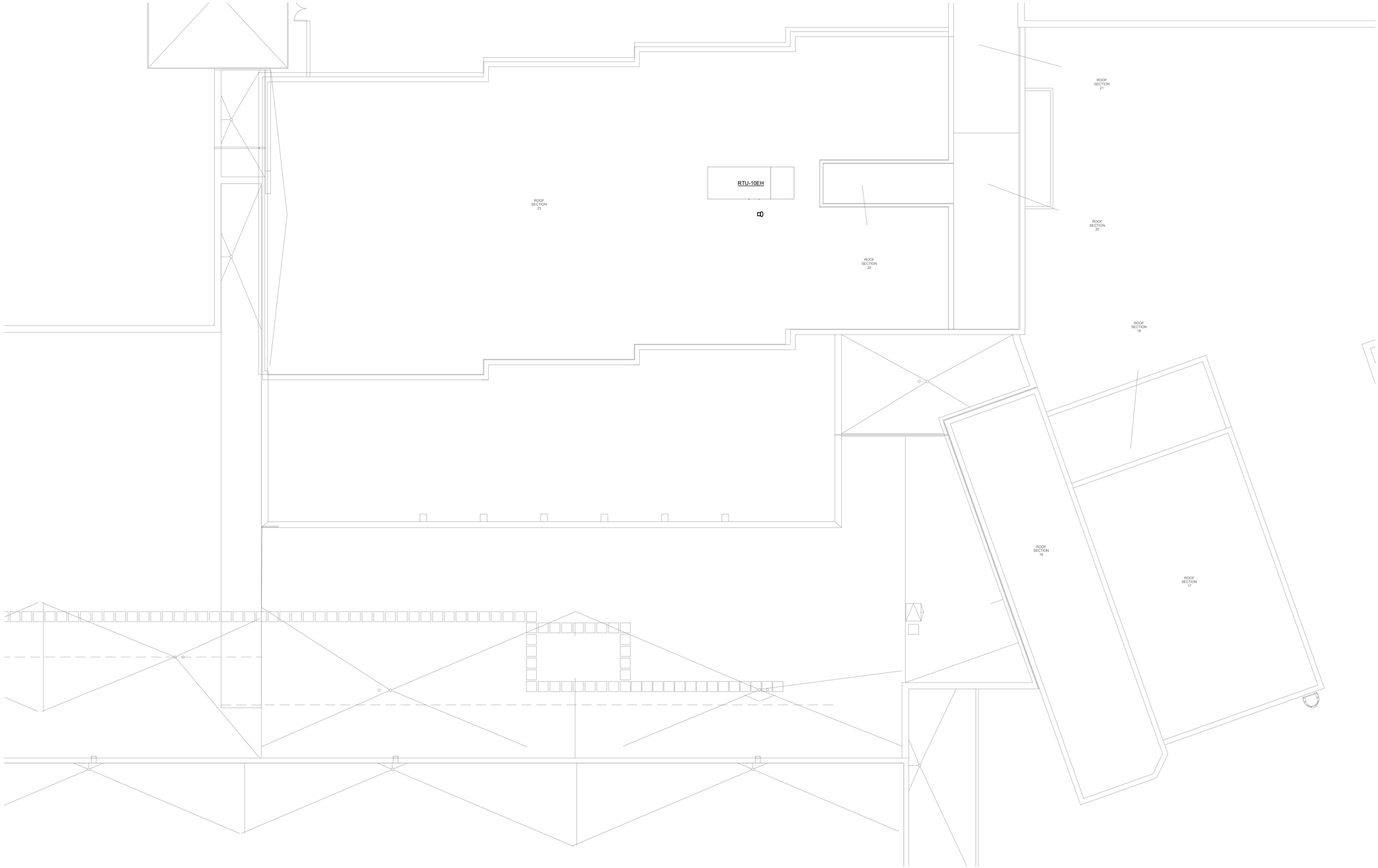

NORTH

1 ROOF - CONROLS - AREA C

1/8" = 1'-0"

21002885.04 1/28/2022 1:14:55 PM ESSER HVAC Improvements - East High School

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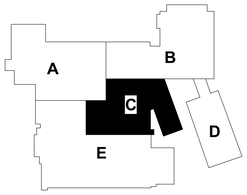

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Approved	**BRAGAR**

SHEET TITLE

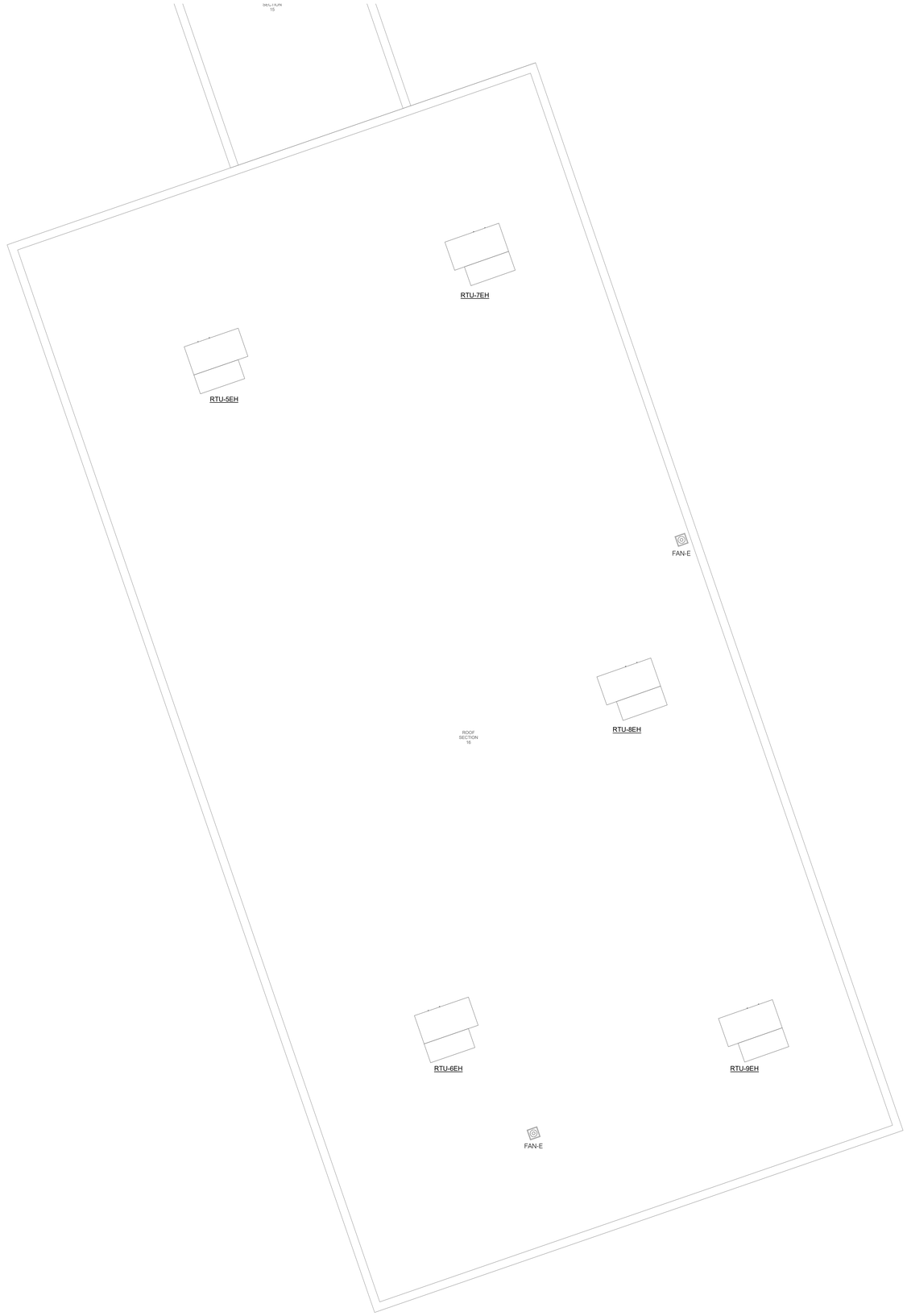
ROOF - CONTROLS - AREA C

SCALE

Scale: **As indicated**

SHEET NUMBER

MC204C



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ROOF - CONROLS - AREA D

1/8" = 1'-0"

NORTH

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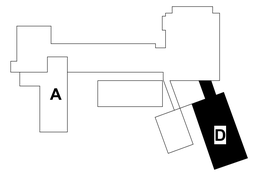

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Approved	**BRAGAR**

SHEET TITLE

ROOF - CONTROLS - AREA D

SCALE

Scale: **As indicated**

SHEET NUMBER

MC204D

21002885.04 1/28/2022 1:14:57 PM ESSER HVAC Improvements - East High School

GENERAL SHEET NOTES:

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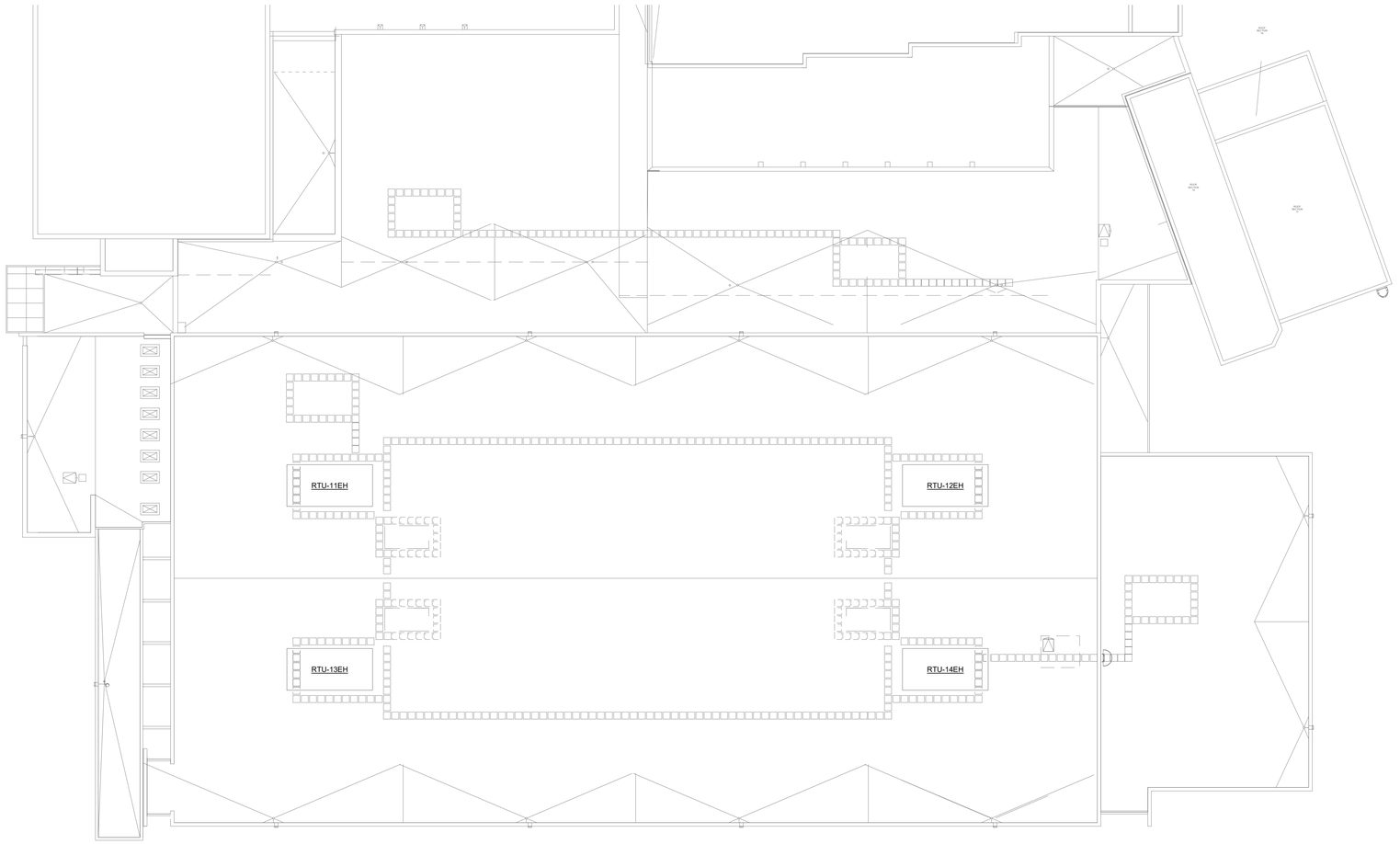

1 ROOF - CONROLS - AREA E

1/16" = 1'-0"

NORTH

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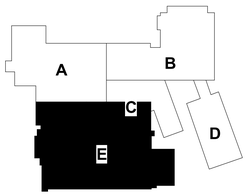
KEY PLAN



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REFERENCE SCALE IN INCHES

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REVISIONS

No.	Date	Revision / Issue

SHEET INFORMATION

Issue	**BID DOCUMENTS**
Date	**JANUARY 28, 2022**
Job Number	**21002885.04**
Drawn	**BRAGAR**
Checked	**ALIHAM**
Approved	**BRAGAR**

SHEET TITLE

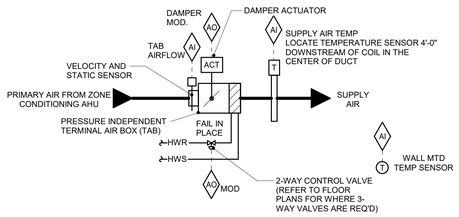
ROOF - CONTROLS - AREA E

SCALE

Scale: **As indicated**

SHEET NUMBER

MC204E



SEQUENCE OF OPERATION:

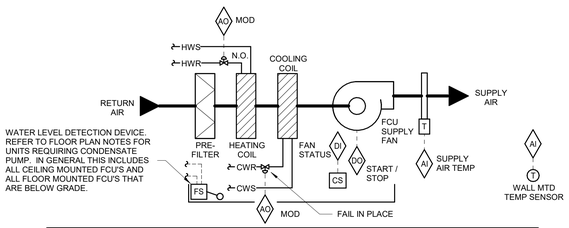
- FMCS TAB CONTROLLER SHALL MODULATE THE TAB DAMPER AND TAB HW REHEAT COIL CONTROL VALVE TO MAINTAIN SPACE TEMPERATURE OF 72°F (ADJ.) WITH 5°F (ADJ.) DEAD BAND BASED ON A SIGNAL FROM A WALL MOUNTED TEMPERATURE SENSOR. SEE DRAWINGS FOR TEMPERATURE SENSOR REQUIREMENTS. SPACES WITH ADJUSTABLE THERMOSTATS WILL ALLOW A +/- 3° F (ADJ.) OFFSET FROM THE DDC SETPOINT.
- AT FULL COOLING, THE TAB SHALL BE OPEN TO MAXIMUM CFM POSITION. THE REHEAT COIL CONTROL VALVE SHALL BE CLOSED.
- UPON A FALL IN SPACE TEMPERATURE, THE TAB SHALL MODULATE CLOSED UNTIL SPACE SETPOINT IS MAINTAINED, OR UNTIL IT REACHES ITS MINIMUM SCHEDULED CFM POSITION PER THE TAB SCHEDULE. THE REHEAT COIL CONTROL VALVE SHALL BE CLOSED.
- UPON A FURTHER FALL IN SPACE TEMPERATURE, THE REHEAT COIL CONTROL VALVE SHALL MODULATE OPEN TO MAINTAIN SPACE SETPOINT UNTIL THE SUPPLY AIR TEMPERATURE IS 20°F ABOVE ROOM TEMPERATURE SETPOINT.
- UPON A FURTHER FALL IN SPACE TEMPERATURE, TAB SHALL OPEN TO MAINTAIN SETPOINT UNTIL TAB AIRFLOW REACHES ITS MAXIMUM HEATING SETTING. THE REHEAT CONTROL VALVE SHALL CONTINUE TO MODULATE OPEN TO MAINTAIN MAXIMUM DELTA T LISTED ABOVE.
- THE FMCS SHALL UTILIZE OUTPUT FROM ALL TERMINAL AIR BOX POSITIONS TO RESET THE SUPPLY DUCT DIFFERENTIAL STATIC PRESSURE.

ALARMS, INTERLOCKS & SAFETIES:

SEND AN ALARM TO THE FMCS OPERATOR INTERFACE IF THE SPACE TEMPERATURE IS MORE THAN 10°F (ADJ.) ABOVE OR BELOW SETPOINT.

1 TAB CONTROL W/ HOT WATER REHEAT - TAB-A

NO SCALE



SEQUENCE OF OPERATION:
SUPPLY FAN OPERATION SHALL BE CONTROLLED BY THE FMCS THROUGH A CONTACTOR. THE UNIT SHALL MAINTAIN A ROOM AIR TEMPERATURE SETPOINT.

WHENEVER THE ROOM AIR TEMPERATURE IS 2°F (ADJ.) ABOVE THE SETPOINT, THE FOLLOWING SHALL OCCUR:
- THE HEATING COIL CONTROL VALVE SHALL BE CLOSED.
- THE CHILLED WATER CONTROL VALVE SHALL MODULATE OPEN TO MAINTAIN SPACE TEMPERATURE SETPOINT.

WHENEVER THE ROOM AIR TEMPERATURE IS 3°F (ADJ.) BELOW THE SETPOINT AS CONTROLLED BY THE PERIMETER RADIATION, THE FOLLOWING SHALL OCCUR:
- THE FAN COIL UNIT CHILLED COIL CONTROL VALVE SHALL BE CLOSED.
- THE FAN COIL UNIT HEATING WATER CONTROL VALVE SHALL MODULATE OPEN TO MAINTAIN SPACE TEMPERATURE SETPOINT.
- WHEN THE SPACE TEMPERATURE SETPOINT IS SATISFIED OR IN A RISE IN SPACE TEMPERATURE THE SEQUENCE SHALL OCCUR IN REVERSE.

IF ROOM AIR TEMPERATURE IS MAINTAINED AND BOTH THE HEATING AND COOLING COIL VALVES ARE CLOSED, THE SUPPLY FAN SHALL BE DE-ENERGIZED.

WHEN FLOATING CV'S ARE USED, FMCS SHALL PERFORM AN AUTO-ZERO FUNCTION EVERY NIGHT DURING UNOCCUPIED TIMES. THE FMCS SHALL STAGGER AUTO-ZERO SEQUENCES SO THAT ALL VALVES DO NOT SIMULTANEOUSLY CLOSE.

ALARMS, INTERLOCKS & SAFETIES:
WHEN THE FIRE ALARM CONTROL PANEL INDICATES AN ALARM CONDITION, FCU SHALL SHUTDOWN.

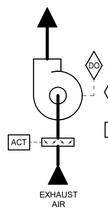
A WATER LEVEL DETECTION DEVICE SHALL CLOSE THE CHILLED WATER VALVE AND PREVENT SUPPLY FAN OPERATION UPON DETECTION OF HIGH WATER LEVEL AND SHALL INDICATE AN ALARM TO THE OPERATOR WORKSTATION.

FMCS SHALL INDICATE AN ALARM TO THE FMCS OPERATOR WORKSTATION IF THE FMCS COMMANDS ANY SUPPLY FAN TO OPERATE AND THE FAN CURRENT RELAY DETECTS INSUFFICIENT CURRENT FLOW.

WHENEVER FCU IS SHUTDOWN THE FOLLOWING SHALL OCCUR:
- HEATING AND CHILLED WATER CONTROL VALVE SHALL CLOSE.
- SUPPLY FAN SHALL BE DE-ENERGIZED.

2 FAN COIL UNIT CONTROL

NO SCALE



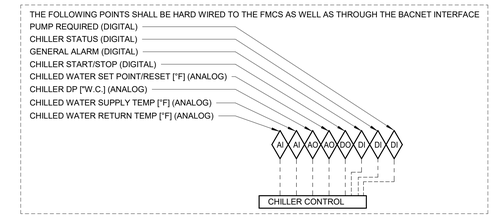
SEQUENCE OF OPERATION:
EXHAUST FAN SHALL BE INTERLOCKED TO RUN CONTINUOUSLY WHEN RESPECTIVE AHU IS OPERATING.

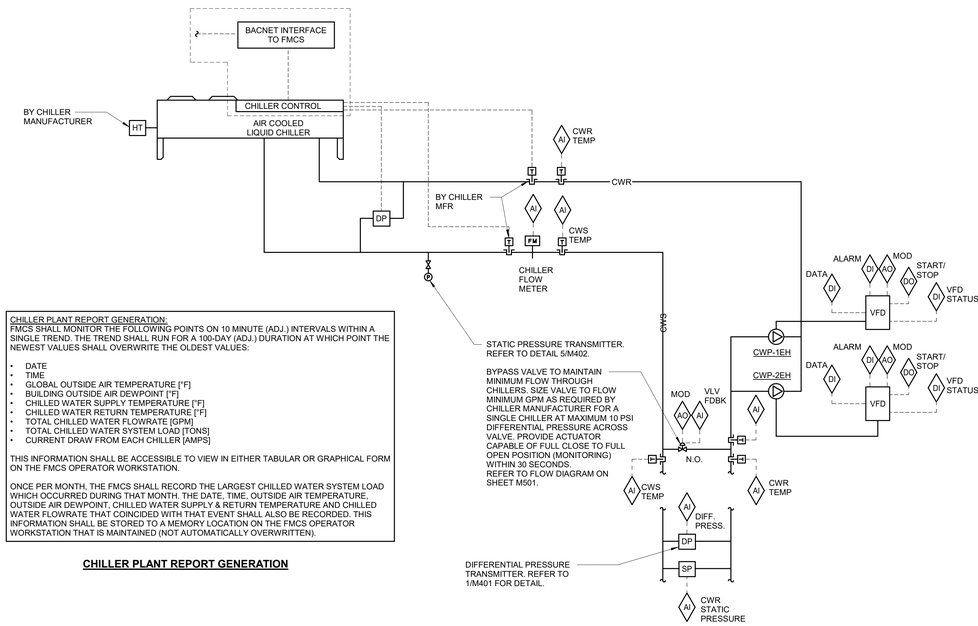
2-POSITION DAMPER SHALL FULLY OPEN WHEN FAN IS ENERGIZED. WHEN FAN IS DE-ENERGIZED, 2-POSITION DAMPER SHALL FULLY CLOSE.

ALARMS, INTERLOCKS AND SAFETIES:
AN ALARM SHALL BE GENERATED AT THE FMCS OPERATOR WORKSTATION IN THE EVENT THE FMCS COMMANDS THE EXHAUST FAN TO OPERATE AND THE CURRENT SENSING RELAY DETECTS INSUFFICIENT CURRENT DRAW.

3 EXHAUST FAN CONTROL - RTU/DOAS INTERLOCK

NO SCALE





CHILLER PLANT REPORT GENERATION:
FMCS SHALL MONITOR THE FOLLOWING POINTS ON 10 MINUTE (ADJ.) INTERVALS WITHIN A SINGLE TREND. THE TREND SHALL RUN FOR A 100-DAY (ADJ.) DURATION AT WHICH POINT THE NEWEST VALUES SHALL OVERWRITE THE OLDEST VALUES:

- DATE
- TIME
- GLOBAL OUTSIDE AIR TEMPERATURE [°F]
- BUILDING OUTSIDE AIR DEWPOINT [°F]
- CHILLED WATER SUPPLY TEMPERATURE [°F]
- CHILLED WATER RETURN TEMPERATURE [°F]
- TOTAL CHILLED WATER FLOWRATE [GPM]
- TOTAL CHILLED WATER SYSTEM LOAD [TONS]
- CURRENT DRAW FROM EACH CHILLER [AMPS]

THIS INFORMATION SHALL BE ACCESSIBLE TO VIEW IN EITHER TABULAR OR GRAPHICAL FORM ON THE FMCS OPERATOR WORKSTATION.

ONCE PER MONTH, THE FMCS SHALL RECORD THE LARGEST CHILLED WATER SYSTEM LOAD WHICH OCCURRED DURING THAT MONTH. THE DATE, TIME, OUTSIDE AIR TEMPERATURE, OUTSIDE AIR DEWPOINT, CHILLED WATER SUPPLY & RETURN TEMPERATURE AND CHILLED WATER FLOWRATE THAT COINCIDED WITH THAT EVENT SHALL ALSO BE RECORDED. THIS INFORMATION SHALL BE STORED TO A MEMORY LOCATION ON THE FMCS OPERATOR WORKSTATION THAT IS MAINTAINED (NOT AUTOMATICALLY OVERWRITTEN).

CHILLER PLANT REPORT GENERATION

SEQUENCE OF OPERATION
THE CHILLER MANUFACTURER SHALL PROVIDE A FACTORY MOUNTED CHILLER CONTROL PANEL. ALL AVAILABLE DATA PROVIDED/MONITORED BY THE CHILLER CONTROL PANEL SHALL BE AVAILABLE TO AND MONITORED BY THE FMCS SYSTEM.

CHILLER OPERATION SHALL BE CONTROLLED BY THE CHILLER CONTROL PANEL AND SHALL BE ENABLED WHEN THE OUTSIDE AIR TEMPERATURE RISES ABOVE 50°F (ADJ.) FOR 15 MINUTES (ADJ.). WHEN OUTSIDE AIR TEMPERATURE DROPS BELOW 48°F (ADJ.) FOR 15 MINUTES (ADJ.) CHILLER OPERATION SHALL BE DISABLED. CHILLER SHALL NOT OPERATE UNTIL A CHILLED WATER VALVE IN THE SYSTEM HAS A CALL FOR COOLING AND BEGINS TO OPEN. ONCE VALVE STARTS TO OPEN THE FMCS SHALL ENERGIZE THE LEAD PUMP.

CHILLER STARTING:
WHEN THE FMCS INDEXES CHILLER TO RUN THE FOLLOWING SHALL OCCUR:
- THE FMCS SHALL TURN ON THE CHILLED WATER PUMP.
- UPON PROOF OF FLOW IN THE EVAPORATOR BARREL THE CHILLER CONTROL PANEL SHALL INDEX CHILLER TO START.
- CHILLER SHALL START AFTER ALL INTERNAL SAFETIES ARE SATISFIED AND SHALL MAINTAIN CHILLED WATER SUPPLY TEMPERATURE OF 42°F (ADJ.) VIA INTERNAL CONTROLS.

CHILLER STOPPING:
WHEN THE FMCS INDEXES THE CHILLER TO STOP THE FOLLOWING SHALL OCCUR:
- THE CHILLER CONTROL PANEL SHALL INDEX CHILLER TO STOP.
- THE CHILLER CONTROL PANEL SHALL SEND A SIGNAL TO THE FMCS TO SHUTDOWN THE CHILLED WATER PUMP.

CHILLED WATER PUMP CONTROL:
THE BAS SHALL START/STOP AND PROVE OPERATION OF THE CHILLER WATER PUMPS.
THE CHILLED WATER PUMP VFD SHALL MODULATE TO MAINTAIN A 15 PSI (ADJ) DIFFERENTIAL PRESSURE SETPOINT AT THE MOST REMOTE COOLING COIL.

THE FMCS SHALL ALTERNATE THE LEAD PUMP BASED ON RUN TIME: SWITCH EVERY 400 HOURS (ADJ.) INCLUDE GRAPHIC TOGGLE ON OPERATOR WORKSTATION GRAPHICAL SCREEN TO ALLOW OPERATOR TO MANUALLY SELECT WHICH PUMP IS LEAD AND WHICH IS LAG.

MINIMUM CHILLED WATER FLOW CONTROL:
FMCS SHALL MODULATE THE CHILLED WATER BYPASS CONTROL VALVE AS REQUIRED TO MAINTAIN MINIMUM FLOW THROUGH CHILLER. TCC SHALL VERIFY THE MINIMUM FLOW LIMIT OF CHILLER WITH EQUIPMENT MANUFACTURER. ADEQUATE FLOW THROUGH THE CHILLER SHALL BE DETERMINED BY THE FLOW METER. IF MINIMUM FLOW RATE IS MET THE CONTROL VALVE SHALL MODULATE CLOSED.

CHILLER SAFETIES:
TCC SHALL COORDINATE ALL SAFETY AND INTERLOCK REQUIREMENTS WITH CHILLER MANUFACTURER. TCC SHALL PROVIDE THE INSTALLATION AND WIRING OF CHILLED WATER FLOW SWITCHES AND OTHER COMPONENTS PROVIDED WITH CHILLER AS REQUIRED FOR PROPER OPERATION.

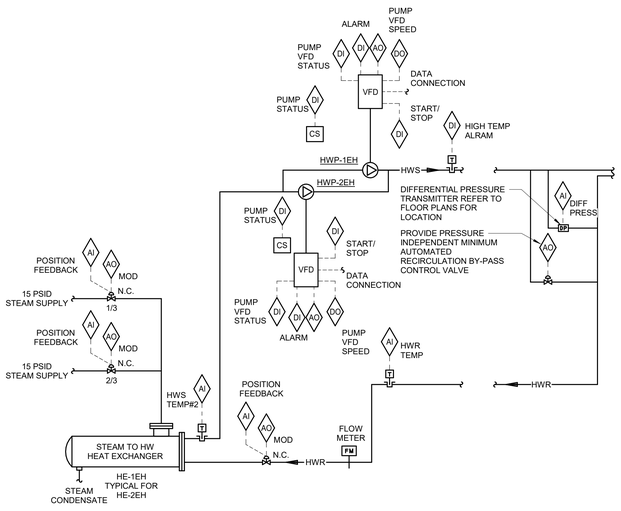
WATER LOOP LOAD CALCULATION & DISPLAY:
CALCULATE AND DISPLAY THE CHILLED WATER LOOP TONNAGE ON THE FMCS COMPUTER CHILLER PLANT GRAPHICAL SCREEN USING THE ENTERING AND LEAVING CHILLED WATER TEMPERATURES AND THE FLOW RATE AS DETERMINED BY THE FLOW METER.

FMCS SHALL TOTAL THE KW USED BY THE CHILLER AND CHILLER WATER PUMPS AND DIVIDE BY THE PLANTS TOTAL TONNAGE AND DISPLAY THE PLANTS KW/TON ON THE SCREEN.

ALARMS, INTERLOCKS AND SAFETIES:
AN ALARM SHALL BE INDICATED AT THE FMCS WHEN THE FOLLOWING OCCUR:
- AN ALARM IS INDICATED AT THE CHILLER CONTROL PANEL
- IF CHILLED WATER SUPPLY TEMPERATURE IS MORE THAN 5°F (ADJ.) ABOVE OR BELOW SETPOINT FOR MORE THAN 10 MINUTES (ADJ.).
- SHOULD THE FMCS COMMAND THE PUMP TO OPERATE AND THE PUMP FAILS TO DO SO AS DETERMINED BY THE VFD STATUS, AN ALARM SHALL BE INDICATED AT THE FMCS OPERATOR WORKSTATION AND THE FMCS SHALL START THE LAG PUMP.
- AN ALARM CONDITION OCCURS AT ANY VFD.
- IF SYSTEM DIFFERENTIAL PRESSURE IS NOT MAINTAINED FOR MORE THAN 15 MINUTES (ADJ.).
- IN THE EVENT THE CHILLER IS INDEXED TO OPERATE AND FAILS TO DO SO, AN ALARM SHALL BE GENERATED AT THE OPERATOR WORKSTATION.

4 AIR COOLED CHILLER CONTROLS - VARIABLE PRIMARY

NO SCALE



SEQUENCE OF OPERATION:
THE STEAM CONTROL VALVES SHALL MODULATE TO THE HEAT EXCHANGER AS REQUIRED TO MAINTAIN SYSTEM SUPPLY TEMP AS FOLLOWS:

- THE 20% CAPACITY STEAM CONTROL VALVE SHALL BE MODULATED IN ORDER TO MAINTAIN THE HEATING WATER SUPPLY TEMPERATURE.
- IF THE 20% CAPACITY CONTROL VALVE IS 100% OPEN AND THE HEAT EXCHANGER IS UNABLE TO MAINTAIN SETPOINT, THE 20% CAPACITY CONTROL VALVE SHALL CLOSE AND THE 80% CAPACITY STEAM CONTROL VALVE SHALL MODULATE TO MAINTAIN SETPOINT.
- IF THE 80% CAPACITY CONTROL VALVE IS 100% OPEN AND IS UNABLE TO MAINTAIN SETPOINT, THE 2/3 CAPACITY CONTROL VALVE SHALL REMAIN OPEN AND THE 1/3 CAPACITY CONTROL VALVE SHALL ALSO MODULATE OPEN TO MAINTAIN SETPOINT.
- ON A DECREASE IN LOAD, THE 80% CAPACITY STEAM CONTROL VALVE SHALL REMAIN OPEN AND THE 20% CAPACITY STEAM CONTROL VALVE SHALL MODULATE CLOSED UNTIL SETPOINT IS ACHIEVED.
- ON A FURTHER DECREASE IN LOAD, THE 20% CAPACITY STEAM CONTROL VALVE SHALL REMAIN SHUT AND THE 80% CAPACITY STEAM CONTROL VALVE SHALL MODULATE CLOSED UNTIL SETPOINT IS ACHIEVED OR UNTIL IT REACHES 40% (ADJ.) OPEN.
- IF THE 80% CAPACITY STEAM CONTROL VALVE REACHES 20% (ADJ.) OPEN AND SETPOINT IS STILL NOT ACHIEVED, THE 80% CAPACITY STEAM CONTROL VALVE SHALL CLOSE AND THE 20% CAPACITY STEAM CONTROL VALVE SHALL MODULATE OPEN UNTIL SETPOINT IS ACHIEVED.

STEAM CONTROL VALVE OPERATION SHALL NOT BE ENABLED UNLESS ONE HW PUMP IS RUNNING AS PROVEN BY VFD STATUS. FMCS SHALL LIMIT THE HWS TEMP TO MAX. 190°F (ADJ.).

TYPICAL TWO PUMP HEAT EXCHANGER SEQUENCE OF OPERATION

THE HEATING SYSTEM SHALL BE COMPLETELY CONTROLLED BY THE BUILDING AUTOMATION SYSTEM (BAS).

- THE HEATING SYSTEM CONSISTS OF STEAM HEAT EXCHANGER, STEAM VALVE(S), AND TWO PUMPS (ONE PRIMARY AND ONE STANDBY). THE HEATING SYSTEM SHALL BE CONTROLLED AS NOTED BELOW (EACH SET POINT AND SETTING SHALL BE ADJUSTABLE AT THE BAS
- ALL COMMANDABLE POINTS SHALL INDICATE CURRENT COMMANDED PRIORITY STATUS AT THE BAS
- ALL LOAD SIDE 2 WAY VALVE SYSTEMS WHERE THE PUMPS ARE CONTROLLED BY VFD(s) SHALL BE PROVIDED WITH A DIFFERENTIAL PRESSURE SENSOR REPORTING TO THE BAS AT THE FURTHEST POINT IN THE HYDRONIC LOOP. WITH A CONTROL SET POINT TO ACCOMMODATE PID LOOP CONTROL OF THE PUMP VFD(s). A RETURN PRESSURE SENSOR SHALL ALSO BE INSTALLED IN THIS SAME LOCATION TO HELP DETERMINE WHEN SYSTEMS ARE LOW ON WATER.
- ALL SYSTEM PRESSURES AND FLOW SET POINTS TO BE DETERMINED BY THE BALANCER IF SYSTEM DIFFERENTIAL PRESSURE IS NOT MAINTAINED FOR MORE THAN 15 MINUTES (ADJ.).

HEATING SYSTEM ENABLE / DISABLE:

THE BAS SHALL ENABLE/DISABLE REHEAT SYSTEMS BASED ON OUTSIDE AIR TEMPERATURE (FA)

- WHEN OUTSIDE AIR TEMPERATURE IS LESS THAN THE ENABLE SET POINT OF 55 DEG.F (ADJ.) THE SYSTEM SHALL BE ENABLED
- WHEN OUTSIDE AIR TEMPERATURE IS 2 DEG.F ABOVE THE ENABLE SET POINT THE SYSTEM SHALL BE DISABLED
- WHEN THE SYSTEM IS ENABLED ALL TEMPERATURE ALARMS SHALL BE INACTIVE AND DELAYED UNTIL THE SYSTEM REACHES LOW TEMPERATURE ALARM THRESHOLD AND THEN BECOME ACTIVE AND ANNUNCIATED AT THE BAS
- WHEN THE SYSTEM IS DISABLED ALL ALARMS SHALL BE INACTIVE WITH THE EXCEPTION OF THE HIGH TEMPERATURE ALARM
- ENABLE/DISABLE OPERATIONAL MODE SHALL BE ANNUNCIATED AT THE BAS

HOT WATER PUMP START/STOP AND SPEED CONTROL:

- THE BAS SHALL START/STOP, AND PROVE OPERATION OF THE HOT WATER PUMPS.
- UPON FAILURE OF THE PRIMARY PUMP, BAS SHALL ISSUE A START COMMAND TO THE STANDBY PUMP AND ALARM THE PRIMARY PUMP.
- UPON FAILURE OF THE PRIMARY PUMP, AND THE STANDBY PUMP, THE BAS SHALL CLOSE THE STEAM VALVE(S) AND ALARM BOTH PUMPS.
- IF ANY PUMP IS DISABLED LOCALLY AND THE SYSTEM IS ENABLED THE REMAINING PUMP WILL OPERATE AS PRIMARY UNTIL THE DISABLED PUMP IS ENABLED LOCALLY, AT THAT TIME THE SYSTEM WILL REVERT BACK TO THE ORIGINAL RUN TIME SEQUENCE.

STEAM VALVE CONTROL:

VALVE(S) SHALL MODULATE TO MAINTAIN THE HOT WATER SUPPLY TEMPERATURE SETPOINT.

HOT WATER SUPPLY TEMPERATURE SET POINT SHALL BE RESET ON LINEAR TABLE BASED UPON OUTSIDE AIR TEMPERATURE:

- REFER TO GRAPH INDICATED ABOVE FOR WATER RESET.

THE FOLLOWING CONDITIONS SHALL SHUT THE STEAM VALVE AND SHALL INDICATE AN ALARM CONDITION AT THE BAS CENTRAL COMMAND:

- IF BOTH PRIMARY AND STANDBY HOT WATER PUMP ARE ENABLED TO RUN AND CURRENT STATUS SWITCHES MEASURES INSUFFICIENT CURRENT.
- SHOULD THE HOT WATER TEMPERATURE EXCEED 200 DEG F.

THE FOLLOWING CONDITIONS SHALL INDICATE AN ALARM AT THE BAS THOUGH ALLOWING THE PUMP TO CONTINUE TO OPERATE:

- SHOULD THE HOT WATER SUPPLY TEMPERATURE EXCEED 190 DEG F. (FA)
- SHOULD THE HOT WATER SUPPLY TEMPERATURE FALL BELOW 80 DEG F. (FA)
- SHOULD THE HOT WATER RETURN PRESSURE FALL BELOW 3 PSI (FA) FOR 15 MINUTES
- SHOULD THE HOT WATER DIFFERENTIAL PRESSURE VARY FROM SET POINT BY +/- 5 PSI (FA) FOR 15 MINUTES

WHENEVER HEATING SYSTEM IS SHUT DOWN, THE FOLLOWING SGALL OCCUR:

- STEAM VALVE(S) SHALL FULLY CLOSE.
- PUMPS SHALL DE-ENERGIZE.
- ALARMS SHALL BE INACTIVE WITH THE EXCEPTION OF THE HIGH TEMPERATURE ALARM

PUMP ROTATION PROGRAM :

THE PUMPS SHALL ALTERNATE ON THE SECOND TUESDAY OF EVERY MONTH AT 10:00 AM BASIS:

- PRIMARY / STANDBY STATUS SHALL BE ANNUNCIATED FOR EACH PUMP AT THE BAS
- THE PRIMARY PUMP SHALL BE SELECTABLE FROM THE BAS
- IF THE STANDBY PUMP IS PUT IN HAND LOCALLY THE PRIMARY PUMP WILL CONTINUE TO RUN

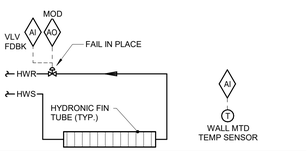
HEAT EXCHANGER ROTATION PROGRAM :

THE HEAT EXCHANGERS SHALL ALTERNATE ON THE FOURTH TUESDAY OF EVERY MONTH AT 10:00 AM BASIS:

- PRIMARY / STANDBY STATUS SHALL BE ANNUNCIATED FOR EACH HX AT THE BAS
- THE PRIMARY HX SHALL BE SELECTABLE FROM THE BAS
- ENABLING PRIMARY HX:
  1. OPEN HWR CONTROL VALVE
  2. ENABLE THE STEAM CONTROL VALVES
- DISABLING THE SECONDARY HX:
  1. DISABLE AND CLOSE BOTH STEAM CONTROL VALVES
  2. CLOSE HWR CONTROL VALVE
- IF THE STANDBY HX IS PUT IN HAND LOCALLY THE PRIMARY HX WILL CONTINUE TO RUN

REPORTS AND TRENDING

- ALL PHYSICAL INPUTS, OUTPUTS, SET POINTS, AND ALARMS SHALL BE TRENDED



SEQUENCE OF OPERATION:

WHEN THE OUTDOOR AIR TEMPERATURE IS BELOW 60°F (ADJ.), THE FMCS SHALL MODULATE THE RADIATION CONTROL VALVE TO MAINTAIN A SPACE TEMPERATURE SETPOINT OF 70°F (ADJ.).

WHEN THE OUTDOOR AIR TEMPERATURE IS ABOVE 60°F (ADJ.), CONTROL VALVE SHALL BE FULLY CLOSED.

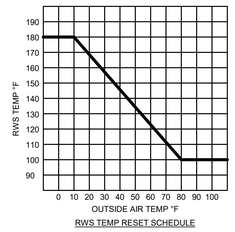
NIGHT SETBACK CONTROL:
OCCUPIED/UNOCCUPIED SCHEDULE SHALL BE SET AT THE OPERATOR INTERFACE FOR THIS ZONE. WHEN THE ZONE IS SCHEDULED UNOCCUPIED, THE SPACE TEMPERATURE SETPOINT SHALL BE RESET TO 55°F (ADJ.).

ALARMS, INTERLOCKS & SAFETIES:

SEND AN ALARM TO THE FMCS OPERATOR INTERFACE IF THE SPACE TEMPERATURE FALLS 10°F (ADJ.) BELOW SETPOINT.

6 STAND ALONE RADIATION CONTROL

NO SCALE



RWS TEMP RESET SCHEDULE

5 STEAM TO WATER HEAT EXCHANGER CONTROL

NO SCALE

NOTES:

1. 1. GOLD CONTACT RELAYS FOR DI, PILOT RELAYS FOR DO POINTS AND ISOVERTERS FOR AI & AO POINTS SHALL BE LOCATED WITH THE LCP ENCLOSURE AND POWERED FROM THE LCP'S CONTROL TRANSFORMER.
2. 2. OPTICAL ISOLATION (ISOVERTERS) SHALL BE USED FOR ALL ANALOG INPUT POINTS AND ANALOG OUTPUT POINTS TO VFD'S OR ANY OTHER CONTROLLER/ANALYZER POWERED FROM A SEPARATE CIRCUIT.

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REVISIONS

No.	Date	Revision / Issue

SHEET INFORMATION

Issue	BID DOCUMENTS
Date	JANUARY 28, 2022
Job Number	21002885.04
Drawn	BRAGAR
Checked	ALIHAM
Approved	BRAGAR

SHEET TITLE

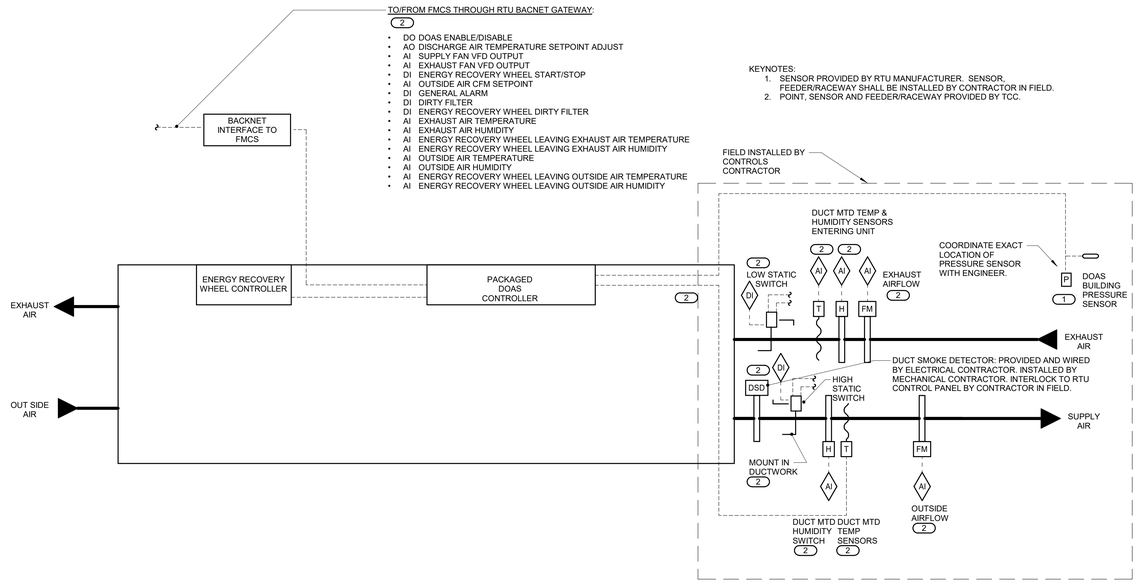
CONTROL DIAGRAMS

SCALE

Scale: 12" = 1'-0"

SHEET NUMBER

MC500



DOAS REPORT GENERATION:
DDC FMCS SHALL MONITOR THE FOLLOWING POINTS ON 10 MINUTE (ADJ.) INTERVALS WITHIN A SINGLE TREND. THE TREND SHALL RUN FOR A 365-DAY (ADJ.) DURATION AT WHICH POINT THE NEWEST VALUES SHALL AUTOMATICALLY OVERWRITE THE OLDEST VALUES:

PROVIDED BY PACKAGED MANUFACTURER THROUGH GATEWAY TO FMCS:

- SUPPLY AIR TEMP SETPOINT [°F]
- SUPPLY AIR TEMP (SAT) [°F]
- SUPPLY AIR RELATIVE HUMIDITY [%]
- SUPPLY AIR DEWPOINT [°F]
- SUPPLY AIR DEWPOINT SETPOINT [°F]
- ENERGY RECOVERY WHEEL EXHAUST AIR LEAVING AIR TEMPERATURE [°F]
- ENERGY RECOVERY WHEEL EXHAUST AIR LEAVING RELATIVE HUMIDITY [°F]
- EXHAUST FILTER LOADING [STATUS]
- SUPPLY FILTER LOADING [STATUS]
- SUPPLY FAN VFD OUTPUT [% FULL SPEED]
- EXHAUST FAN VFD OUTPUT [% FULL SPEED]
- OUTSIDE AIR DAMPER POSITION [% OPEN]
- EXHAUST AIR DAMPER POSITION [% OPEN]
- ENERGY RECOVERY WHEEL VFD OUTPUT [% FULL SPEED]
- BYPASS DAMPER POSITION [% OPEN]
- SUPPLY FAN VFD OUTPUT
- EXHAUST FAN VFD OUTPUT
- GENERAL ALARM
- EXHAUST AIR TEMPERATURE
- EXHAUST AIR HUMIDITY
- OUTSIDE AIR TEMPERATURE
- OUTSIDE AIR HUMIDITY
- ENERGY RECOVERY WHEEL LEAVING OUTSIDE AIR TEMPERATURE
- ENERGY RECOVERY WHEEL LEAVING OUTSIDE AIR HUMIDITY

POINTS PROVIDED BY FMCS AND SYSTEM:

- DATE
- TIME
- GLOBAL OUTSIDE AIR TEMP [°F]
- GLOBAL OUTSIDE AIR HUMIDITY [%RH]
- EXHAUST AIRFLOW [CFM]
- EXHAUST AIR TEMP ENTERING UNIT (EAT) [°F]
- EXHAUST AIR RELATIVE HUMIDITY ENTERING UNIT [%]
- OUTSIDE AIRFLOW [CFM]
- DOAS ENABLE/DISABLE
- DISCHARGE AIR TEMPERATURE SETPOINT ADJUST
- OUTSIDE AIR CFM SETPOINT
- SUPPLY AIR HUMIDITY
- FIRE ALARM

THIS INFORMATION SHALL BE ACCESSIBLE TO VIEW IN GRAPHICAL FORM ON THE FMCS OPERATOR WORKSTATION.

ONCE PER MONTH, THE DDC FMCS SHALL RECORD THE LARGEST DOAS AIRFLOW WHICH OCCURED DURING THAT MONTH. THE DATE, TIME, OUTSIDE AIR TEMPERATURE (AND ALL OTHER VALUES LISTED ABOVE) THAT COINCIDED WITH THAT EVENT SHALL ALSO BE RECORDED. THIS INFORMATION SHALL BE STORED TO A MEMORY LOCATION ON THE FMCS OPERATOR WORKSTATION THAT IS MAINTAINED (NOT AUTOMATICALLY OVERWRITTEN).

DOAS REPORT GENERATION

CONTROLS PROVIDED BY CONTRACTOR IN THE FIELD:
THE TCC SHALL EXTEND THE FMCS NETWORK TO THE RTU UNITARY CONTROLLER PER THE PROTOCOL SPECIFIED IN SECTION 23 09 00.

WHEN DOAS IS INDEXED TO RUN, THE FOLLOWING SHALL OCCUR:
- SMOKE DAMPERS AND COMBINATION FIRE/SMOKE DAMPERS SHALL OPEN.
- AFTER A 30 SECOND DELAY TO ALLOW FOR OPENING OF COMBINATION FIRE/SMOKE DAMPERS. THE FMCS SHALL SEND A SIGNAL TO INDEX THE DOAS TO START.
- WHEN THE DOAS SUPPLY FAN HAS STARTED THE INTERLOCKED EXHAUST FANS SHALL START AS SHOWN IN THE FAN INTERLOCK SCHEDULE.

BUILDING OCCUPANCY SCHEDULING:
ENABLE RTU TO RUN BASED ON THE FOLLOWING OCCUPANCY SCHEDULE: (COORDINATE SCHEDULE WITH SCHOOL DISTRICT)

• MORNING START-UP MODE:	MONDAY THROUGH FRIDAY	5:00AM-6:00AM (ADJ.)
	SATURDAY THROUGH SUNDAY	7:00AM-8:00AM (ADJ.)
• OCCUPIED MODE:	MONDAY THROUGH FRIDAY	6:00AM-5:00PM (ADJ.)
	SATURDAY THROUGH SUNDAY	8:00AM-5:00PM (ADJ.)
• UNOCCUPIED MODE:	MONDAY THROUGH FRIDAY	9:00PM-5:00AM (ADJ.)
	SATURDAY THROUGH SUNDAY	6:00PM-7:00AM (ADJ.)

CONTRACTOR SHALL FIELD INSTALL THE FOLLOWING MANUFACTURER PROVIDED EXTERNAL SENSORS AND WIRE BACK TO RTU CONTROLLER:
- DUCT STATIC PRESSURE SENSOR IN SUPPLY DUCT.
- BUILDING PRESSURE SENSOR.
- SUPPLY AIR TEMERATURE IN SUPPLY DUCT.

EXTERNAL CONTROLS PROVIDED BY AND/OR WIRED BY TCC:
- SUPPLY AND EXHAUST TEMPERATURE SENSOR
- SUPPLY AND EXHAUST HUMIDITY SENSOR
- DUCT SMOKE DETECTOR
- AIR FLOW MEASURING STATION
- ALL REQUIRED POINTS FROM DOAS CONTROLLER TO FMCS
- ALL REQUIRED POINTS FROM FMCS TO DOAS CONTROLLER

ALARMS, INTERLOCKS AND SAFETIES:
WHEN FIRE ALARM CONTROL PANEL INDICATES AN ALARM CONDITION, FMCS SHALL SEND A SIGNAL TO DOAS TO SHUTDOWN UNIT.

THE FOLLOWING SAFETIES SHALL BE INSTALLED AND WIRED IN THE FIELD AND SHALL DISABLE DOAS.
- HIGH STATIC SWITCH (WIRED TO UNIT/DISABLE TO TURN FANS OFF)
- LOW STATIC SWITCH (WIRED TO UNIT/DISABLE TO TURN FANS OFF)
- FIRE ALARM RELAY (WIRED TO UNIT/DISABLE TO TURN FANS OFF)

WHENEVER DOAS IS SHUTDOWN THE FMCS SHALL COMMAND THE FOLLOWING TO OCCUR:
- ALL COMBINATION FIRE/SMOKE DAMPERS SHALL FULLY CLOSE.
- INTERLOCKED EXHAUST FANS SHALL BE DE-ENERGIZED.
- ISOLATION DAMPERS IN THE UNIT SHALL CLOSE.

CONTROLS PROVIDED BY PACKED EQUIPMENT MANUFACTURER:

PACKAGE ROOFTOP UNIT SYSTEM DESCRIPTION:
REFER TO SECTION 23 74 16.14 AND 23 74 16.15 FOR A DESCRIPTION OF THE UNIT AND THE CONTROLS PROVIDED BY THE MANUFACTURER.

DOAS CONTROL PANEL SEQUENCE OF OPERATION:
THE FMCS SHALL SEND A SIGNAL TO START THE DOAS.

SUPPLY FAN OPERATION:
DOAS CONTROL PANEL SHALL MODULATE SIGNAL TO SUPPLY FAN VFD AS REQUIRED TO MAINTAIN SCHEDULED OUTSIDE AIR CFM AS MEASURED BY AIRFLOW MEASURING STATION.

EXHAUST FAN OPERATION:
EXHAUST FAN SHALL BE INDEXED TO RUN WHENEVER THE SUPPLY FAN IS INDEXED TO RUN. DOAS CONTROL PANEL SHALL MODULATE SIGNAL TO EXHAUST FAN VFD AS REQUIRED TO MAINTAIN THE AIRFLOW OFFSET AS INDICATED IN THE EXHAUST FAN AIRFLOW SCHEDULE.

VENTILATION CONTROL:
WHENEVER THE UNIT IS IN OCCUPIED MODE THE OUTSIDE AIR DAMPER SHALL BE FULLY OPEN.

DISCHARGE AIR TEMPERATURE CONTROL:
DISCHARGE AIR TEMPERATURE SHALL BE 70°F (ADJ.) AT FULL HEATING THE ENERGY RECOVERY WHEEL SHALL BE ROTATING AT FULL SPEED WITH THE BYPASS DAMPERS CLOSED AND THE GAS BURNER OR HOT WATER COIL MODULATING TO MAINTAIN SETPOINT. WHENEVER THE DISCHARGE AIR TEMPERATURE IS ABOVE SETPOINT THE FOLLOWING SHALL OCCUR:
- MODULATE GAS BURNER OFF.
- MODULATE ENERGY RECOVERY WHEEL SPEED TO MAINTAIN SETPOINT.
- THE ENERGY RECOVERY WHEEL SHALL BE DISABLED AND THE BYPASS DAMPERS SHALL OPEN.
- MODULATE COMPRESSORS.
- THE ENERGY RECOVERY WHEEL SHALL TURN ON TO FULL SPEED AND BYPASS DAMPERS CLOSED.
- THE DOAS COMPRESSORS SHALL BE ENABLED AND MFR SHALL MODULATE COMPRESSOR OR COIL CAPACITY REQUIRED TO MAINTAIN SETPOINT.

AT FULL COOLING THE ENERGY RECOVERY WHEEL SHALL BE ROTATING AT FULL SPEED WITH THE BYPASS DAMPERS CLOSED AND THE DOAS COMPRESSORS OR COOLING COIL MODULATING TO MAINTAIN SETPOINT. WHENEVER THE DISCHARGE AIR TEMPERATURE IS BELOW SETPOINT THE FOLLOWING SHALL OCCUR:
- MODULATE COMPRESSORS TO MAINTAIN SETPOINT.
- DISABLE THE ENERGY RECOVERY WHEEL AND BYPASS DAMPERS SHALL OPEN WHEN THE TEMPERATURE DIFFERENCE FROM THE RETURN AIR AND OUTSIDE AIR IS 5°F (ADJ.) OR LESS.
- THE ENERGY RECOVERY WHEEL SHALL BE ENABLED AND THE BYPASS DAMPERS SHALL CLOSE.
- THE ENERGY RECOVERY WHEEL SHALL MODULATE SPEED OF WHEEL TO MAINTAIN SETPOINT.
- ONCE THE ENERGY RECOVERY WHEEL IS AT FULL SPEED THE GAS FIRED BURNER SHALL MODULATE ON.

ENERGY RECOVERY WHEEL CONTROL:
THE MANUFACTURER SHALL CONTROL PREHEAT AND WHEEL SPEED TO PREVENT FROST FROM ON THE WHEEL.

ALARMS, INTERLOCKS AND SAFETIES:
SEND AN ALARM TO THE CONTROLER INTERFACE [FMCS] FOR THE FOLLOWING:
- SUPPLY FAN FAULT (AIRFLOW, CURRENT OR VFD)
- EXHAUST FAN FAULT (AIRFLOW, CURRENT OR VFD)
- DIFFERENTIAL PRESSURE SWITCH ACROSS ANY FILTER (30%) BANK EXCEEDS 0.6 INCHES W.G. (ADJ.)
- IF DISCHARGE AIR TEMPERATURE IS MORE THAN 10°F (ADJ.) ABOVE OR BELOW SETPOINT.
- EMERGENCY STOP
- DIRTY FILTERS (WHEN FILTER PRESSURE DROP EXCEEDS 0.6" W.C. (ADJ.)

WHENEVER DOAS IS SHUTDOWN THE RTU CONTROLLER SHALL COMMAND THE FOLLOWING TO OCCUR:
- SUPPLY FAN AND EXHAUST FAN VFDS SHALL BE DE-ENERGIZED.
- OUTSIDE AIR AND RELIEF AIR DAMPERS SHALL FULLY CLOSE. THE RETURN AIR DAMPER SHALL FULLY OPEN.
- HEATING AND COOLING SHALL BE DISABLED.
- THE ENERGY RECOVERY WHEEL SHALL STOP.

UNOCCUPIED MODE:
FMCS SHALL PROVIDE TIME OF DAY SCHEDULE TO ALLOW DOAS TO ENTER UNOCCUPIED MODE PER SCHEDULE.
- THE SUPPLY AND EXHAUST FANS SHALL TURN OFF.
- THE OUTSIDE AIR AND EXHAUST AIR DAMPERS SHALL CLOSE.

DOAS EXHAUST FAN AIRFLOW SCHEDULE

SYSTEM	SUPPLY CFM	EXHAUST FANS	PRESSURIZATION CFM	REMARKS
DOAS-1	X,XXX	EF-X	X,XXX	NOTES 1,2,3
DOAS-2	X,XXX	EF-X	X,XXX	NOTES 1,2,3
DOAS-3	X,XXX	EF-X	X,XXX	NOTES 1,2,3

NOTES:
1. **DOAS EXHAUST FAN AIRFLOW SETPOINT SHALL BE THE SUPPLY FAN AIRFLOW (AS MEASURED BY THE AFMS) MINUS THE SUM OF THE EXHAUST FAN AIRFLOWS MINUS THE PRESSURIZATION CFM.**
2. **FMCS SHALL DETERMINE THE OPERATIONAL STATUS OF EACH EXHAUST FAN VIA THE CURRENT SENSING RELAY TO DETERMINE WHETHER THE CFM ASSOCIATED WITH THAT FAN SHOULD BE INCLUDED IN THE DOAS EXHAUST FAN AIRFLOW CALCULATION.**
3. **EXHAUST FAN AIRFLOWS SHALL NOT BE THE CFM INDICATED ON THE FAN SCHEDULE, BUT SHALL BE THE AIRFLOW INDICATED IN THE FINAL TAB REPORT.**

DOAS FAN INTERLOCK SCHEDULE

SYSTEM	INTERLOCKED EXHAUST FANS	REMARKS
DOAS-1	EF-X	NOTE 1
DOAS-2	EF-X	NOTE 1
DOAS-3	EF-X	NOTE 1

NOTES:
1. **INTERLOCK EXHAUST FAN OPERATION THROUGH THE FMCS WITH RESPECTIVE DOAS IN ACCORDANCE WITH DOAS SEQUENCE OF OPERATION.**

1 PACKAGED DOAS UNIT WITH ENERGY RECOVERY WHEEL CONTROL
NO SCALE

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REFERENCE SCALE IN INCHES
0 1 2

REVISIONS

No.	Date	Revision / Issue

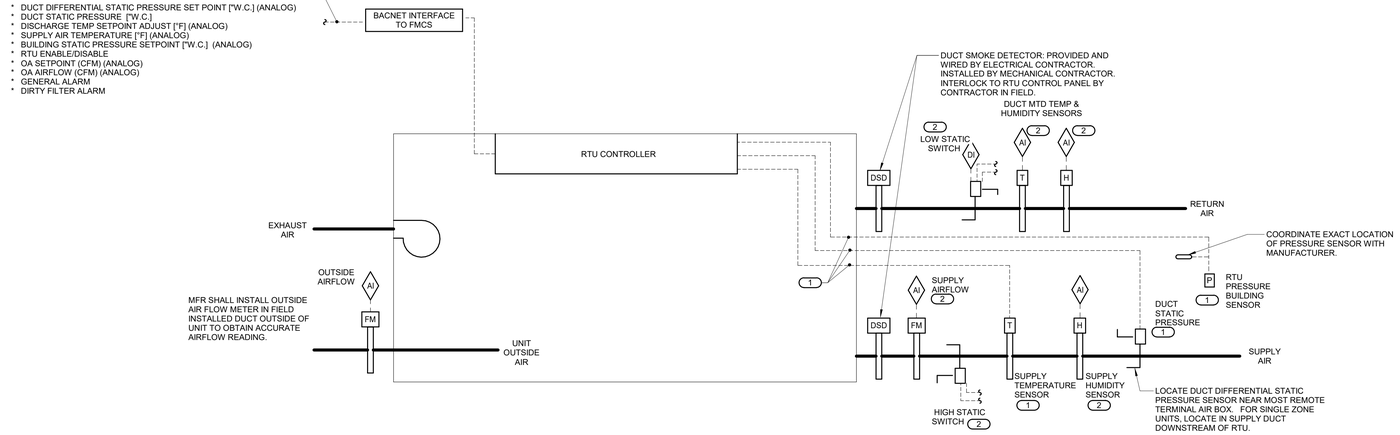
SHEET INFORMATION

Issue	**BID DOCUMENTS**
Date	**JANUARY 28, 2022**
Job Number	**21002885.04**
Drawn	**BRAGAR**
Checked	**ALIHAM**
Approved	**BRAGAR**

SHEET TITLE
CONTROL DIAGRAMS

SCALE
Scale: **12" = 1'-0"**

SHEET NUMBER
MC501



CONTROLS SEQUENCE PROVIDED BY CONTRACTOR IN FEILD:

SEQUENCE OF OPERATION:
THE TCC SHALL EXTEND THE FMCS NETWORK TO THE RTU BACNET INTERFACE PER THE PROTOCOL SPECIFIED IN SECTION 23 09 00.

WHEN RTU IS INDEXED TO RUN, THE FOLLOWING SHALL OCCUR:
- SMOKE DAMPERS AND COMBINATION FIRE/SMOKE DAMPERS SHALL OPEN.
- AFTER A 30 SECOND DELAY TO ALLOW FOR OPENING OF COMBINATION FIRE/SMOKE DAMPERS. SUPPLY FAN SHALL BE ENABLED TO RUN.
- WHEN THE SUPPLY FAN HAS STARTED THE INTERLOCKED EXHAUST FANS SHALL START AS SHOWN IN THE FAN INTERLOCK SCHEDULE.

BUILDING OCCUPANCY SCHEDULING:
ENABLE RTU TO RUN BASED ON THE FOLLOWING OCCUPANCY SCHEDULE:

• MORNING START-UP MODE:	MONDAY THROUGH FRIDAY	5:00AM-6:00AM (ADJ.)
	SATURDAY THROUGH SUNDAY	7:00AM-8:00AM (ADJ.)
• OCCUPIED MODE:	MONDAY THROUGH FRIDAY	6:00AM-9:00PM (ADJ.)
	SATURDAY THROUGH SUNDAY	8:00AM-6:00PM (ADJ.)
• UNOCCUPIED MODE:	MONDAY THROUGH FRIDAY	9:00PM-5:00AM (ADJ.)
	SATURDAY THROUGH SUNDAY	6:00PM-7:00AM (ADJ.)

CONTRACTOR SHALL FIELD INSTALL THE FOLLOWING MANUFACTURER PROVIDED EXTERNAL SENSORS AND WIRE BACK TO RTU CONTROLLER:
- DUCT STATIC PRESSURE SENSOR IN SUPPLY DUCT.
- BUILDING PRESSURE SENSOR.
- SUPPLY AIR TEMERATURE IN SUPPLY DUCT.

ALARMS, INTERLOCKS AND SAFETIES:
THE FOLLOWING SAFETIES SHALL BE INSTALLED AND WIRED IN THE FIELD.
- HIGH STATIC SWITCH (WIRED TO UNIT ENABLE/DISABLE TO TURN FANS OFF)
- LOW STATIC SWITCH (WIRED TO UNIT ENABLE/DISABLE TO TURN FANS OFF)
- FIRE ALARM RELAY (WIRED TO UNIT ENABLE/DISABLE TO TURN FANS OFF)

CONTROLS PROVIDED BY PACKAGED EQUIPMENT MANUFACTURER:

PACKAGE ROOFTOP UNIT SYSTEM DESCRIPTION:
REFER TO SECTION 23 74 16.12 AND 23 74 16.14 FOR A DESCRIPTION OF THE RTU AND THE CONTROLS PROVIDED BY THE RTU MANUFACTURER.

SUPPLY FAN CONTROL (WITH TERMINAL AIR BOXES):
RTU CONTROLLER SHALL MODULATE SIGNAL TO SUPPLY FAN VFD AS REQUIRED TO MAINTAIN DUCT STATIC PRESSURE SETPOINT AS MEASURED BY STATIC PRESSURE TRANSMITTER.
FMCS SHALL RESET SUPPLY DUCT STATIC PRESSURE SETPOINT AS REQUIRED TO MAINTAIN AT LEAST ONE SUPPLY TAB DAMPER 95% (ADJ.) OPEN. FMCS SHALL UTILIZE COMMAND TO ALL SUPPLY TERMINAL AIRBOX POSITIONS TO RESET THE SUPPLY DUCT DIFFERENTIAL STATIC PRESSURE

SUPPLY FAN CONTROL (SINGLE ZONE, NO TAB'S):
RTU CONTROLLER SHALL MODULATE SIGNAL TO SUPPLY FAN VFD AS REQUIRED TO MAINTAIN SPACE TEMPERATURE AS REQUIRED BY THE SPACE TEMPERATURE SENSOR.

EXHAUST FAN CONTROL:
RTU CONTROLLER SHALL MONITOR BUILDING PRESSURE SIGNAL. MODULATE SIGNAL TO EXHAUST FAN VFD AS REQUIRED TO MAINTAIN +0.05" (ADJ.) W.C..

VENTILATION CONTROL:
WHENEVER THE UNIT IS IN OCCUPIED MODE THE OUTSIDE AIR DAMPER SHALL MODULATE TO MAINTAIN MINIMUM OUTSIDE AIR CFM BASED ON QUANTITY OF AIR FROM UNIT MOUNTED AIRFLOW MEASURING STATION.

SUPPLY AIR TEMPERATURE CONTROL:
DISCHARGE AIR TEMPERATURE SHALL BE 55°F (ADJ.) (WITH TERMINAL AIR BOXES).
DISCHARGE AIR TEMPERATURE SHALL MODULATE TO MAINTAIN ROOM THERMOSTAT SETPOINT (SINGLE ZONE).
WHENEVER THE SUPPLY AIR TEMPERATURE IS ABOVE SETPOINT, THE FOLLOWING SHALL OCCUR IN SEQUENCE:
- MODULATE GAS BURNER OFF.
- MODULATE OA DAMPER AS REQUIRED UNTIL SET POINT IS REACHED.
- IF SET POINT CANNOT BE MAINTAINED BY OA DAMPER CONTROL.
- THE COMPRESSORS SHALL BE ENABLED AND MFR SHALL MODULATE COMPRRESSOR CAPACITY AS REQUIRED TO MAINTAIN SET POINT.

WHENEVER THE DISCHARGE AIR TEMPERATURE IS BELOW SETPOINT, THE FOLLOWING SHALL OCCUR IN SEQUENCE:
- IF THE DISCHARGE AIR TEMPERATURE IS MORE THAN 5°F (ADJ) BELOW SETPOINT. MFR SHALL MODULATE COMPRRESSORS OFF.
- MODULATE OA DAMPER AS REQUIRED UNTIL SET POINT IS REACHED.
- IF SET POINT CANNOT BE MAINTAINED BY OA DAMPER CONTROL, MODULATE GAS BURNER AS REQUIRED TO MAINTAIN SET POINT.

ENERGY RECOVERY WHEEL/BYPASS DAMPER/FROST PREVENTION CONTROL (IF APPLICABLE TO UNIT):
WHEEL ON:
- OCCUPIED AND IN HEATING MODE
- OCCUPIED AND IN COOLING MODE

WHEEL OFF:
- UNOCCUPIED MODE
- ECONOMIZER MODE (EITHER OCCUPIED OR UNOCCUPIED)

FROST/LOW AMBIENT MODE:
- THE MANUFACTURER SHALL CONTROL PREHEAT TO PREVENT FROST FROM FORMING ON THE WHEEL

SEND AN ALARM TO THE CONTROLER INTERFACE [FMCS] FOR THE FOLLOWING:
- SUPPLY FAN FAULT (AIRFLOW, CURENT OR VFD)
- EXHAUST FAN FAULT (AIRFLOW, CURENT OR VFD)
- DIRTY FILTERS (WHEN FILTER PRESSURE DROP EXCEEDS 0.6" W.C. (ADJ.)
- IF DISCHARGE AIR TEMPERATURE IS MORE THAN 10°F (ADJ.) ABOVE OR BELOW SETPOINT.
- EMERGENCY STOP

WHENEVER RTU IS SHUTDOWN THE RTU CONTROLLER SHALL COMMAND THE FOLLOWING TO OCCUR:
- SUPPLY FAN AND EXHAUST FAN SHALL STOP.
- OUTSIDE AIR AND EXHAUST AIR DAMPERS SHALL FULLY CLOSE. THE RETURN AIR DAMPER SHALL FULLY OPEN.
- HEATING AND COOLING SHALL BE DISABLED.
- THE ENERGY RECOVERY WHEEL SHALL STOP.
- OUTSIDE AIR AND RELIEF AIR DAMPER SHALL REMAIN CLOSED. RETURN AIR DAMPER SHALL BE 100% OPEN

UN-OCCUPIED MODE OPERATION:
- OUTSIDE AIR AND RELIEF AIR DAMPER SHALL REMAIN CLOSED. RETURN AIR DAMPER SHALL BE 100% OPEN.

AHU REPORT GENERATION:
DDC FMCS SHALL MONITOR THE FOLLOWING POINTS ON 10 MINUTE (ADJ.) INTERVALS WITHIN A SINGLE TREND. THE TREND SHALL RUN FOR 365 DAY (ADJ.) DURATION AT WHICH POINT THE NEWEST VALUES SHALL AUTOMATICALLY OVERWRITE THE OLDEST VALUES.

PROVIDED BY PACKAGED MANUFACTURER THROUGH GATEWAY TO FMCS:	POINTS PROVIDED BY FMCS AND SYSTEM:
• SUPPLY AIR TEMP (SAT) [°F] • OUTSIDE AIRFLOW [CFM] • FILTER SWITCH • SUPPLY FAN VFD OUTPUT [% FULL SPEED] • RETURN FAN VFD OUTPUT [% FULL SPEED] • OUTSIDE AIR DAMPER POSITION [% OPEN] • RETURN AIR DAMPER POSITION [% OPEN]	• DATE • TIME • GLOBAL OUTSIDE AIR TEMP [°F] • GLOBAL OUTSIDE AIR DEWPOINT [°F] GLOBAL OUTSIDE AIR HUMIDITY [%RH] • SUPPLY AIR RELATIVE HUMIDITY [%] • ROOM AIR TEMP SETPOINT [°F] • RETURN AIR TEMP (RAT) [°F] • RETURN AIR RELATIVE HUMIDITY [%] • SUPPLY AIRFLOW [CFM]

THIS INFORMATION SHALL BE ACCESSIBLE TO VIEW IN EITHER TABULAR OR GRAPHICAL FORM ON THE FMCS OPERATOR WORKSTATION.

EXTERNAL CONTROLS PROVIDED BY CONTROLS CONTRACTOR AND WIRED TO FMCS:
2
- STATIC SWITCH
- RETURN TEMPERATURE SENSOR
- HUMIDITY SENSOR
- AIRFLOW MEASURING SENSOR
- DUCT SMOKE DETECTOR INTERLOCK

KEYNOTES:
1. SENSOR PROVIDED BY RTU MANUFACTURER. SENSOR FEEDER/RACEWAY AND CONNECTION SHALL BE INSTALLED BY CONTRACTOR IN THE FEILD.
2. POINT, SENSOR AND FEEDER/RACEWAY PROVIDED BY TCC.

FAN INTERLOCK SCHEDULE

SYSTEM	INTERLOCKED EXHAUST FANS	REMARKS
RTU-1L	NONE	NOTE 1
RTU-2L	EF-2L	NOTE 1
RTU-3L	NONE	NOTE 1
RTU-4L	EF-3L	NOTE 1

NOTES:

1. **INTERLOCK EXHAUST FAN OPERATION THROUGH THE FMCS WITH RESPECTIVE AHU IN ACCORDANCE WITH AHU SEQUENCE OF OPERATION.**

1 PACKAGED ROOFTOP UNIT CONTROL (VAV AND SINGLE ZONE)

NO SCALE

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REFERENCE SCALE IN INCHES
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REVISIONS

No.	Date	Revision / Issue

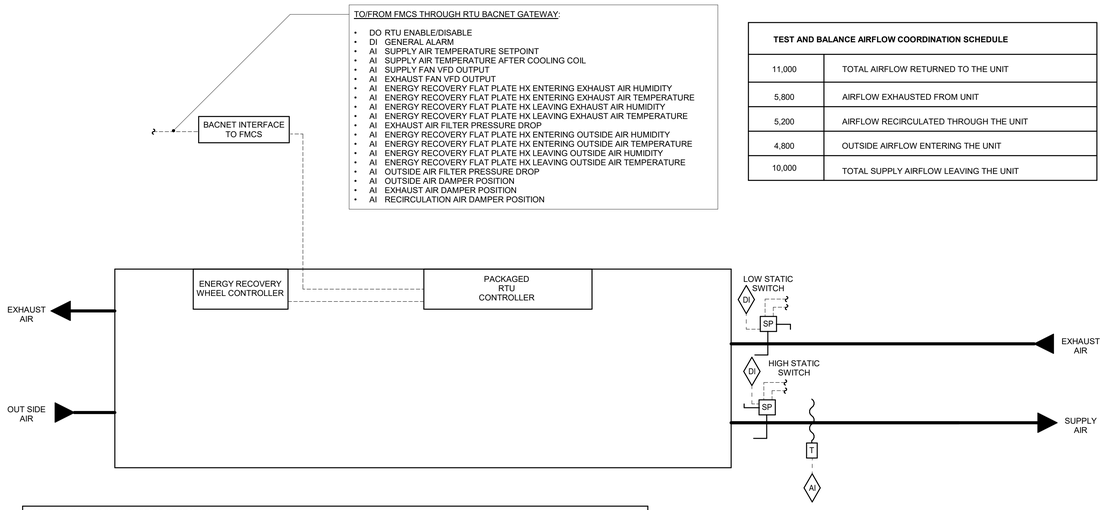
SHEET INFORMATION

Issue	**BID DOCUMENTS**
Date	**JANUARY 28, 2022**
Job Number	**21002885.04**
Drawn	**BRAGAR**
Checked	**ALIHAM**
Approved	**BRAGAR**

SHEET TITLE
CONTROL DIAGRAMS

SCALE
Scale: **12" = 1'-0"**

SHEET NUMBER
MC502



TEST AND BALANCE AIRFLOW COORDINATION SCHEDULE	
11,000	TOTAL AIRFLOW RETURNED TO THE UNIT
5,800	AIRFLOW EXHAUSTED FROM UNIT
5,200	AIRFLOW RECIRCULATED THROUGH THE UNIT
4,800	OUTSIDE AIRFLOW ENTERING THE UNIT
10,000	TOTAL SUPPLY AIRFLOW LEAVING THE UNIT

NATATORIUM UNIT SEQUENCE OF OPERATION:
THE TCC SHALL EXTEND THE FMCS NETWORK TO THE RTU UNITARY CONTROLLER PER THE PROTOCOL SPECIFIED IN SECTION 23 09 00. THE RTU IS CONTROLLED BY A FACTORY MOUNTED CONTROL PANEL AND CONNECTED TO THE FACILITY MANAGEMENT CONTROL SYSTEM (FMCS). THE RTU MANUFACTURER AND TCC SHALL PROVIDE ALL COMPONENTS REQUIRED TO ACHIEVE THE SEQUENCE OF OPERATION AS DESCRIBED BELOW.

THE FMCS SHALL SEND A SIGNAL TO START THE RTU. THE RTU SHALL OPERATE CONTINUOUSLY 24/7/365.

SUPPLY FAN CONTROL:
THE SUPPLY FAN SHALL MAINTAIN CONSTANT AIR CIRCULATION THROUGHOUT THE SPACE AT ALL TIMES. MODULATE SIGNAL TO SUPPLY FAN VFD AS REQUIRED TO MAINTAIN AIRFLOW AS MEASURED AND CONFIRMED BY THE TESTING AND BALANCING CONTRACTOR. TCC SHALL COORDINATE WITH THE TESTING AND BALANCING CONTRACTOR TO DETERMINE THE REQUIRED VFD SPEED SETPOINT.

EXHAUST FAN CONTROL:
THE EXHAUST FAN SHALL MAINTAIN THE NATATORIUM AT A NEGATIVE PRESSURE AT ALL TIMES. MODULATE SIGNAL TO EXHAUST FAN VFD AS REQUIRED TO MAINTAIN SPACE DIFFERENTIAL PRESSURE SETPOINT. TCC SHALL COORDINATE WITH THE TESTING AND BALANCING CONTRACTOR TO DETERMINE THE REQUIRED SPACE DIFFERENTIAL PRESSURE SETPOINT.

DISCHARGE AIR TEMPERATURE CONTROL:
MODULATE HEATING AND COOLING DEVICES AND AIRFLOW THROUGH/AROUND THE FLAT PLATE ENERGY RECOVERY HEAT EXCHANGER TO MAINTAIN THE SUPPLY AIR TEMPERATURE SETPOINT AS REQUIRED TO MAINTAIN THE SPACE TEMPERATURE SETPOINT. THE SPACE TEMPERATURE SETPOINT SHALL BE 86°F (ADJ.) (TYPICALLY 2°F ABOVE THE POOL WATER TEMPERATURE). THE DISCHARGE AIR TEMPERATURE SETPOINT SHALL NOT BE ALLOWED TO BE LESS THAN 2°F (ADJ.) ABOVE THE SPACE DEWPOINT TEMPERATURE TO PREVENT CONDENSATION FORMING ON THE DUCTWORK.

DAMPER CONTROL:
THE OUTSIDE AIR DAMPER MODULATES TO MAINTAIN THE SPACE DEWPOINT. THE OUTSIDE AIR DAMPER POSITION IS CONSTRAINED BY THE MINIMUM AND MAXIMUM AIRFLOW SETPOINTS.

THE RECIRCULATION AIR DAMPER CONTROLS INVERSELY TO THE OUTSIDE AIR DAMPER. THE RECIRCULATION AIR DAMPER POSITION IS CONSTRAINED BY THE MINIMUM AND MAXIMUM AIRFLOW SETPOINTS.

THE EXHAUST AIR DAMPER CONTROLS DIRECTLY TO THE EXHAUST FAN STATUS. THE EXHAUST AIR DAMPER POSITION IS OPEN OR CLOSED.

REFER TO THE TEST AND BALANCE AIRFLOW COORDINATION SCHEDULE FOR DAMPER MINIMUM AND MAXIMUM AIRFLOW SETPOINTS.

DEHUMIDIFICATION CONTROL:
OUTSIDE AIR MODE: THE OUTSIDE AIR DAMPER MODULATES TO MAINTAIN THE SPACE DEWPOINT SETPOINT OF 70°F (ADJ.). WHEN MECHANICAL COOLING IS ENABLED, THE OUTSIDE AIR DAMPER REMAINS AT ITS MAXIMUM POSITION.

MECHANICAL COOLING MODE: WHEN THE SPACE DEWPOINT EXCEEDS THE SETPOINT OF 70°F (ADJ.), COOLING IS CONTROLLED TO MAINTAIN THE COOLING COIL LEAVING AIR TEMPERATURE SETPOINT OF 52°F (ADJ.). HOT GAS REHEAT MAINTAINS THE SUPPLY AIR TEMPERATURE SETPOINT.

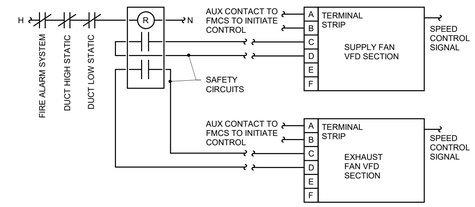
PURGE MODE CONTROL:
PURGE MODE SHALL BE INITIALIZED MANUALLY THROUGH THE FMCS.
THE FOLLOWING OCCUR WHEN PURGE IS INITIALIZED:
- OUTSIDE AIR DAMPER MODULATES OPEN TO ITS MAXIMUM POSITION.
- RECIRCULATION DAMPER MODULATES CLOSED TO ITS MINIMUM POSITION.
- DEHUMIDIFICATION VIA MECHANICAL COOLING IS ALLOWED.
- HEATING IS ALLOWED.

PURGE MODE SHALL BE TERMINATED MANUALLY THROUGH THE FMCS.

ALARMS, INTERLOCKS AND SAFETIES:
THE FOLLOWING CONDITIONS SHALL SEND AN ALARM TO THE FMCS OPERATOR INTERFACE, HOWEVER THE UNIT SHALL CONTINUE TO OPERATE:
- SUPPLY FAN VFD STATUS DOES NOT PROVE OPERATION.
- EXHAUST FAN VFD STATUS DOES NOT PROVE OPERATION.
- DIFFERENTIAL PRESSURE SWITCH ACROSS ANY FILTER (30%) BANK EXCEEDS 0.6 INCHES W.G. (ADJ.).
- IF DISCHARGE AIR TEMPERATURE IS MORE THAN 5°F (ADJ.) ABOVE OR BELOW SETPOINT.
- DEWPOINT OF RETURN AIR EXCEEDS SETPOINT BY 5°F (ADJ.).

THE FOLLOWING CONDITIONS SHALL SEND AN ALARM TO THE FMCS OPERATOR INTERFACE AND THE UNIT SHALL SHUT DOWN:
- FIRE ALARM SYSTEM SHALL NOTIFY THE OPERATOR INTERFACE WHENEVER AN ALARM CONDITION IS EXPERIENCED.
- LOW STATIC PRESSURE SWITCH INDICATES PRESSURE BELOW SETPOINT.
- HIGH STATIC PRESSURE SWITCH INDICATES PRESSURE ABOVE SETPOINT.

WHENEVER THE UNIT IS SHUTDOWN THE FOLLOWING SHALL OCCUR:
- SUPPLY FAN AND EXHAUST FAN VFDS SHALL BE DE-ENERGIZED.
- OUTSIDE AIR AND EXHAUST AIR DAMPERS SHALL FULLY CLOSE.
- HEATING AND COOLING SHALL BE DISABLED.



SUPPLY & EXHAUST FAN VFD CONTROL

RTU REPORT GENERATION

FMCS SHALL MONITOR THE FOLLOWING POINTS ON 5 MINUTE (ADJ.) INTERVALS WITHIN A SINGLE TREND. THE TREND SHALL RUN FOR A 14-DAY (ADJ.) DURATION AT WHICH POINT THE NEWEST VALUES SHALL OVERWRITE THE OLDEST VALUES:

- DATE
- TIME
- RTU ENABLE/DISABLE STATUS
- PURGE MODE ENABLE/DISABLE STATUS
- GLOBAL OUTSIDE AIR TEMP. (°F)
- GLOBAL OUTSIDE AIR HUMIDITY (%RH)
- SPACE AIR TEMPERATURE SETPOINT (°F)
- SPACE AIR TEMPERATURE (°F)
- SPACE DEWPOINT SETPOINT (°F)
- SPACE DEWPOINT (°F)
- SUPPLY AIR TEMPERATURE SETPOINT (°F)
- SUPPLY AIR TEMPERATURE (°F)
- SUPPLY AIR TEMPERATURE AFTER COOLING COIL (°F)
- SUPPLY FAN VFD OUTPUT (% FULL SPEED)
- EXHAUST FAN VFD OUTPUT (% FULL SPEED)
- OUTSIDE AIRFLOW (CFM)
- EXHAUST AIRFLOW (CFM)
- ENERGY RECOVERY FLAT PLATE HX ENTERING EXHAUST AIR HUMIDITY (%RH)
- ENERGY RECOVERY FLAT PLATE HX ENTERING EXHAUST AIR TEMPERATURE (°F)
- ENERGY RECOVERY FLAT PLATE HX LEAVING EXHAUST AIR HUMIDITY (%RH)
- ENERGY RECOVERY FLAT PLATE HX LEAVING EXHAUST AIR TEMPERATURE (°F)
- ENERGY RECOVERY FLAT PLATE HX ENTERING OUTSIDE AIR HUMIDITY (%RH)
- ENERGY RECOVERY FLAT PLATE HX ENTERING OUTSIDE AIR TEMPERATURE (°F)
- ENERGY RECOVERY FLAT PLATE HX LEAVING OUTSIDE AIR HUMIDITY (%RH)
- ENERGY RECOVERY FLAT PLATE HX LEAVING OUTSIDE AIR TEMPERATURE (°F)

THIS INFORMATION SHALL BE ACCESSIBLE TO VIEW IN EITHER TABULAR OR GRAPHICAL FORM ON THE FMCS OPERATOR INTERFACE.

ONCE PER MONTH, THE FMCS SHALL RECORD THE LARGEST OUTSIDE AIRFLOW WHICH OCCURRED DURING THAT MONTH. THE DATE, TIME, AND ALL OTHER VALUES LISTED ABOVE THAT COINCIDED WITH THAT EVENT SHALL ALSO BE RECORDED. THIS INFORMATION SHALL BE STORED TO A MEMORY LOCATION ON THE FMCS OPERATOR INTERFACE THAT IS MAINTAINED (NOT AUTOMATICALLY OVERWRITTEN).

1 NATATORIUM ROOFTOP UNIT CONTROL - RTU-3EH
NO SCALE

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REVISIONS

No.	Date	Revision / Issue

SHEET INFORMATION

Issue	**BID DOCUMENTS**
Date	**JANUARY 28, 2022**
Job Number	**21002885.04**
Drawn	**BRAGAR**
Checked	**ALIHAM**
Approved	**BRAGAR**

SHEET TITLE
CONTROL DIAGRAMS

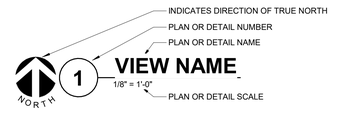
SCALE
Scale: **12" = 1'-0"**

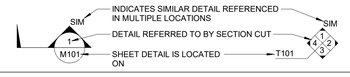
SHEET NUMBER
MC503

VIEW KEY

NAME — LEVEL NAME
10'-0" — HEIGHT ABOVE PROJECT 0'-0"

1 — INDICATES NOTE USED TO DESCRIBE ADDITIONAL INFORMATION ABOUT WORK REQUIRED, SPECIFIC TO THE SHEET AND/OR DETAIL





LINE TYPE AND TAG KEY:

NEW WORK BY THIS CONTRACTOR (WIDE LINE)
——— NEW
- - - - - - - - - EXISTING TO BE REMOVED (SHORT DASHED PATTERN)
— — — NEW UNDERFLOOR OR UNDERGROUND (LONG DASHED PATTERN)

EXISTING TO REMAIN OR WORK BY OTHERS (NARROW LINE)
——— EXISTING
- - - - - - - - - EXISTING TO BE REMOVED BY OTHERS (SHORT DASHED PATTERN)
— — — EXISTING UNDERFLOOR OR UNDERGROUND (LONG DASHED PATTERN)

HALFTONING DOES NOT MODIFY SCOPE.

'TAG'-E — TAGS WITH DASH 'E' INDICATES THE REFERENCED OBJECT IS EXISTING

TAG-1 — UNDERLINED TAG INDICATES OBJECT IS IN-SCOPE. IF NEW, ADDITIONAL INFORMATION IS AVAILABLE IN A SCHEDULE, MATERIAL LIST, OR SYMBOL LIST

INDICATES AN EXISTING SYSTEM'S POINT OF CONNECTION/REMOVAL

FIRE / SMOKE BARRIER DESIGNATIONS

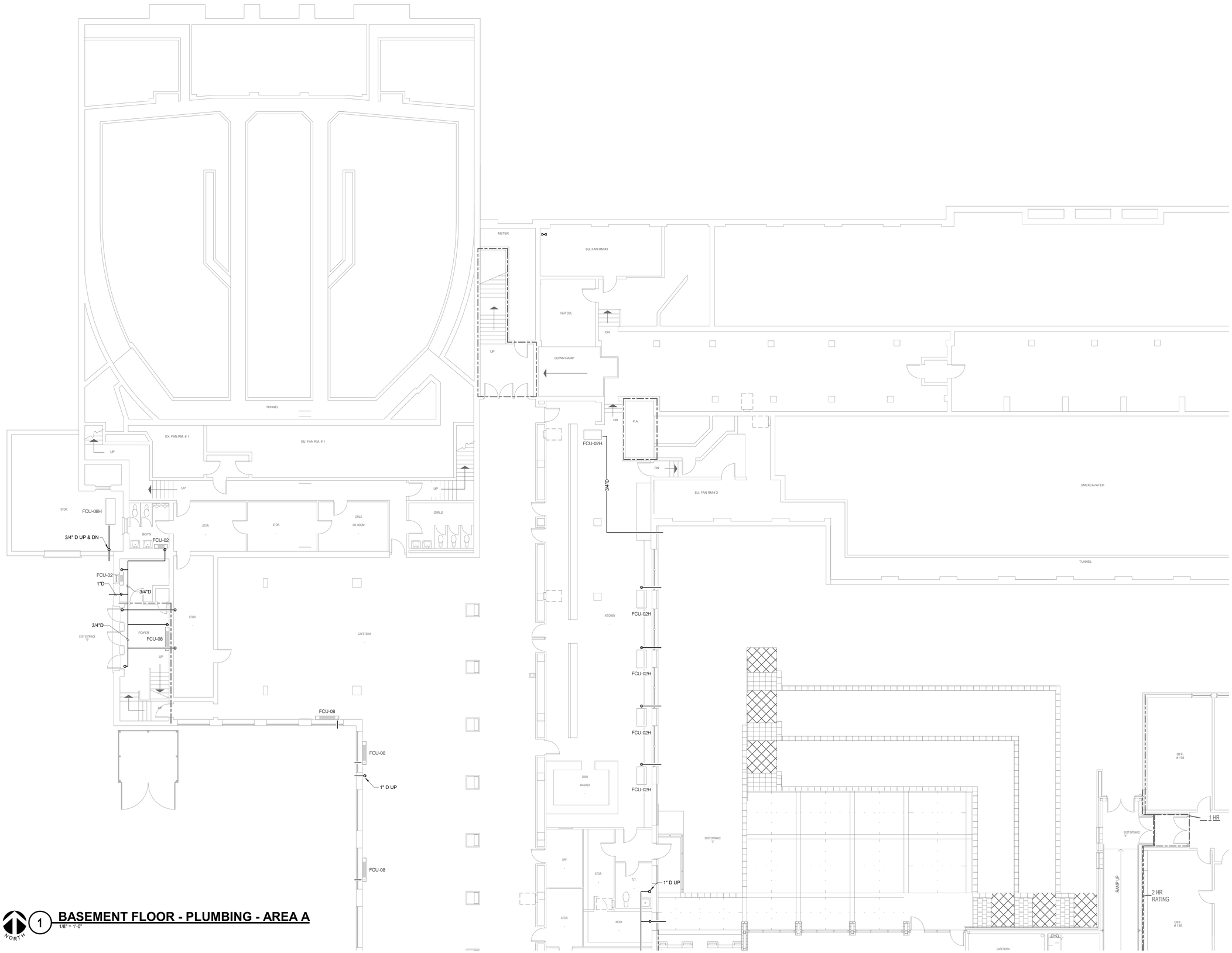
THE LINE TYPES SHOWN ARE FOR THE CONVENIENCE OF THE CONTRACTOR. THE CONTRACTOR SHALL VERIFY RATINGS WITH THE LATEST SET OF ARCHITECTURAL PLANS AND FURNISH ALL MATERIALS REQUIRED TO COMPLY WITH THOSE RATINGS WHETHER SHOWN OR NOT.

ALL [FLOOR, FLOOR CEILING, AND ROOF CEILING] ASSEMBLIES SHALL BE DESIGNATED AS 1 OR 2 HOUR FIRE BARRIERS, UNLESS NOTED OTHERWISE ON THE PLANS. RATINGS WERE ACQUIRED FROM THE ARCHITECTURAL PLANS DATED [12/28/2021].

1 HOUR FIRE WALL	— — —

GENERAL SHEET NOTES:

1. ALL CONDENSATE DRAIN PIPING SHALL BE 3/4" UNLESS NOTED OTHERWISE.
2. FAN COIL UNITS ON EXTERIOR WALLS ON GRADE SHALL HAVE 3/4" DRAIN LINES EXTENDED FROM THE UNIT THROUGH THE EXTERIOR WALL TO DRAIN ON GRADE.



1 **BASEMENT FLOOR - PLUMBING - AREA A**
1/8" = 1'-0"

NORTH

21002885.04 1/28/2022 1:02:44 PM ESSER HVAC Improvements - East High School

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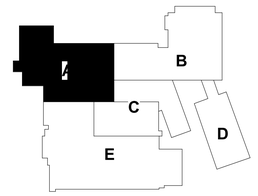
KEY PLAN



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REVISIONS

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SHEET INFORMATION

Issue	BID DOCUMENTS
Date	JANUARY 28, 2022
Job Number	21002885.04
Drawn	BRAGAR
Checked	ALIHAM
Approved	BRAGAR

SHEET TITLE

BASEMENT FLOOR - PLUMBING - AREA A

SCALE

Scale: **As indicated**

SHEET NUMBER

P200A

GENERAL SHEET NOTES:

1. ALL CONDENSATE DRAIN PIPING SHALL BE 3/4" UNLESS NOTED OTHERWISE.
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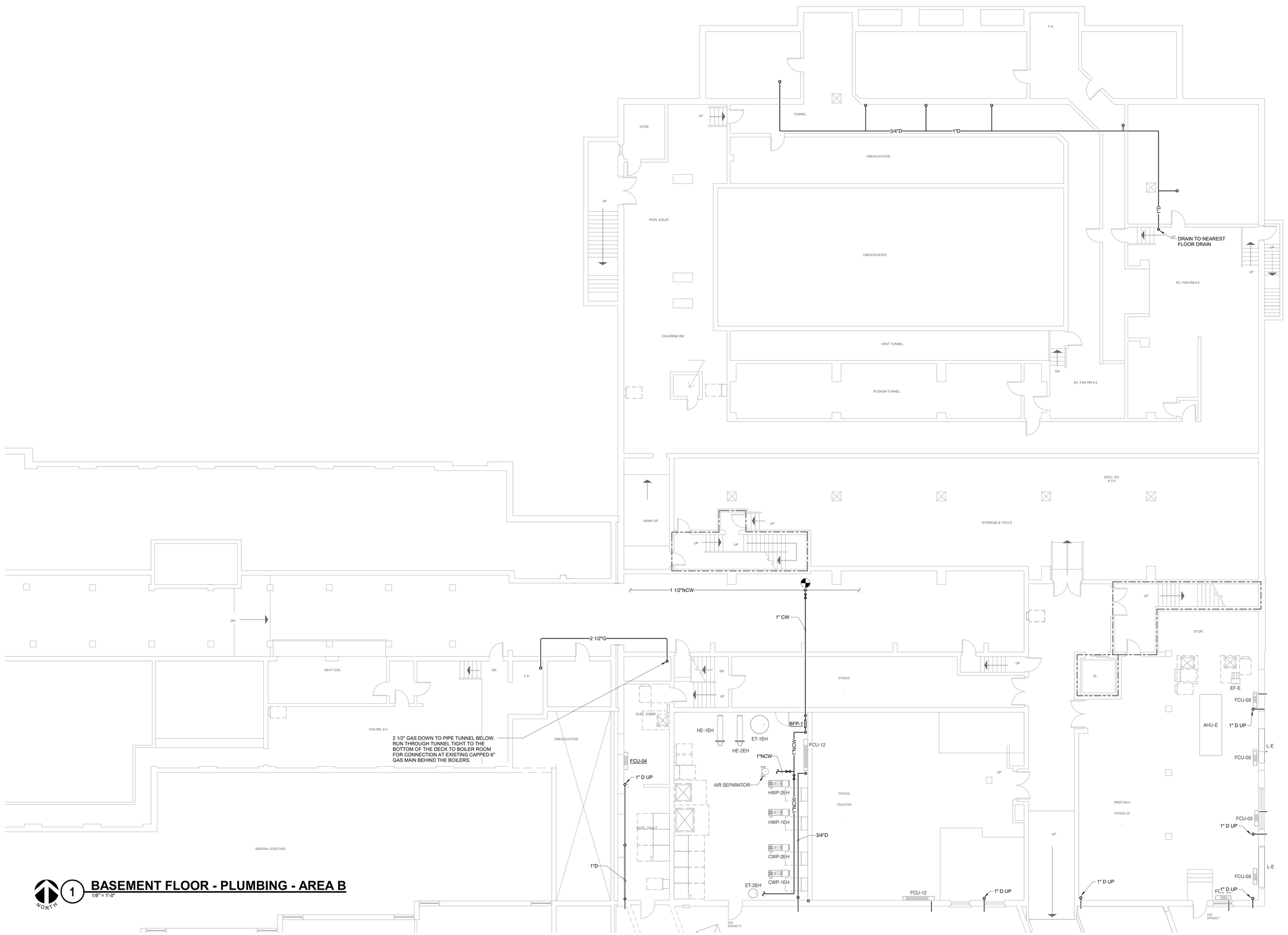

1 BASEMENT FLOOR - PLUMBING - AREA B

1/8" = 1'-0"

NORTH

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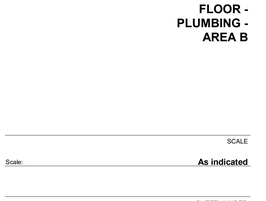

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Approved	**BRAGAR**

SHEET TITLE

BASEMENT FLOOR - PLUMBING - AREA B

SCALE

Scale: **As indicated**

SHEET NUMBER

P200B

21002885.04 1/28/2022 1:02:50 PM ESSER HVAC Improvements - East High School

GENERAL SHEET NOTES:

1. ALL CONDENSATE DRAIN PIPING SHALL BE 3/4" UNLESS NOTED OTHERWISE.
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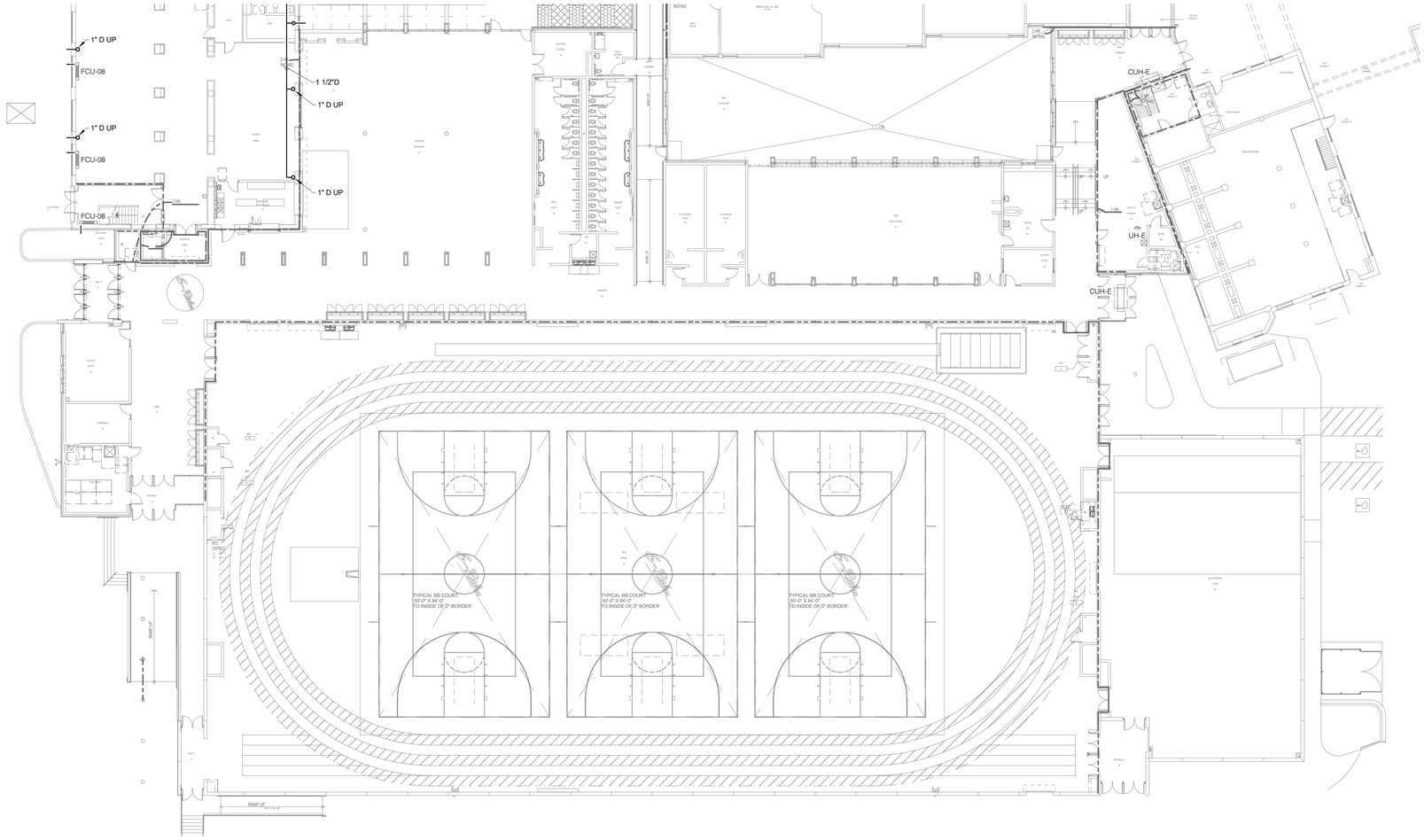

1 BASEMENT FLOOR - PLUMBING - AREA E

1/16" = 1'-0"

NORTH

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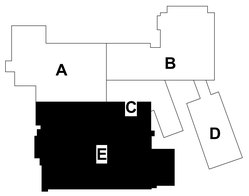

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Approved	**BRAGAR**

SHEET TITLE

BASEMENT FLOOR - PLUMBING - AREA E

SCALE

Scale: **As indicated**

SHEET NUMBER

P200E

21002885.04 1/28/2022 1:02:55 PM ESSER HVAC Improvements - East High School

GENERAL SHEET NOTES:

1. ALL CONDENSATE DRAIN PIPING SHALL BE 3/4" UNLESS NOTED OTHERWISE.
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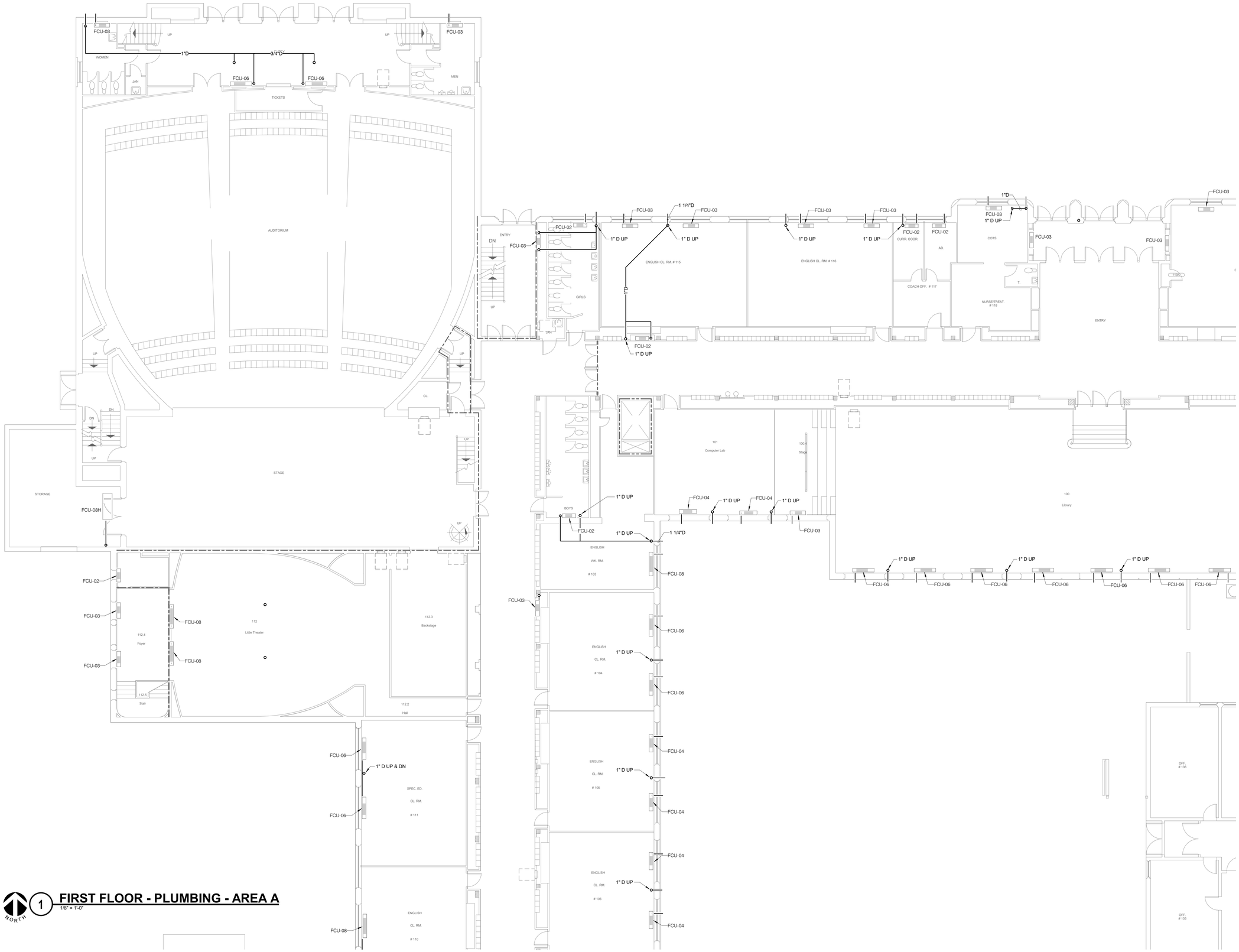

1 FIRST FLOOR - PLUMBING - AREA A
1/8" = 1'-0"

NORTH

21002885.04 1/28/2022 1:03:00 PM ESSER HVAC Improvements - East High School

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Drawn	**BRAGAR**
Checked	**ALIHAM**
Approved	**BRAGAR**

SHEET TITLE

FIRST FLOOR - PLUMBING - AREA A

SCALE

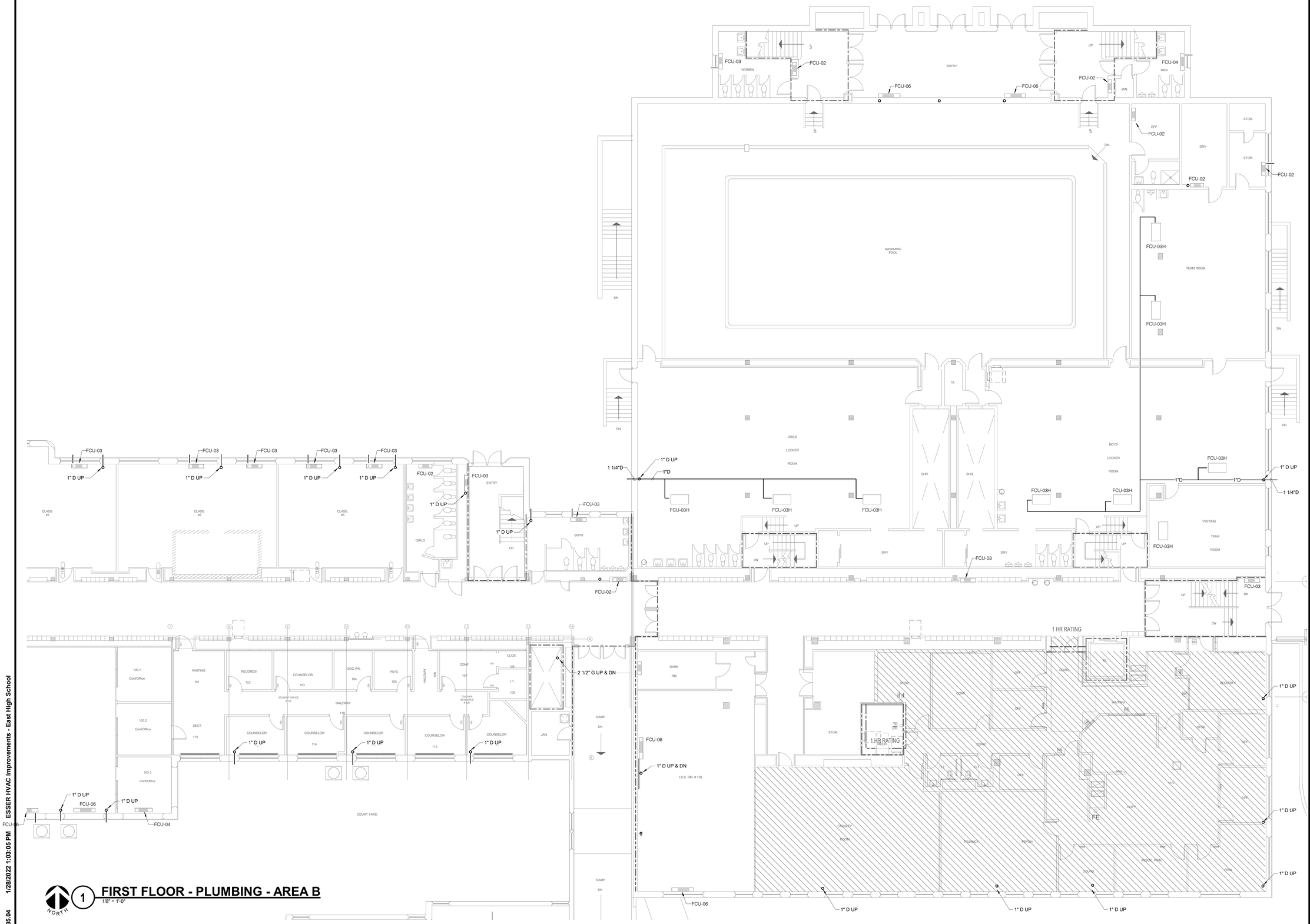
Scale: **As indicated**

SHEET NUMBER

P201A

GENERAL SHEET NOTES:

1. ALL CONDENSATE DRAIN PIPING SHALL BE 3/4" UNLESS NOTED OTHERWISE.
2. FAN COIL UNITS ON EXTERIOR WALLS ON GRADE SHALL HAVE 3/4" DRAIN LINES EXTENDED FROM THE UNIT THROUGH THE EXTERIOR WALL TO DRAIN ON GRADE.



1 FIRST FLOOR - PLUMBING - AREA B
1/8" = 1'-0"

NORTH

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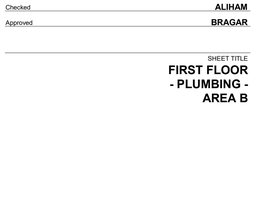

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SHEET TITLE

FIRST FLOOR - PLUMBING - AREA B

SCALE

Scale: **As indicated**

SHEET NUMBER

P201B

GENERAL SHEET NOTES:

1. ALL CONDENSATE DRAIN PIPING SHALL BE 3/4" UNLESS NOTED OTHERWISE.
2. FAN COIL UNITS ON EXTERIOR WALLS ON GRADE SHALL HAVE 3/4" DRAIN LINES EXTENDED FROM THE UNIT THROUGH THE EXTERIOR WALL TO DRAIN ON GRADE.

1 FIRST FLOOR - PLUMBING - AREA E
1/16" = 1'-0"

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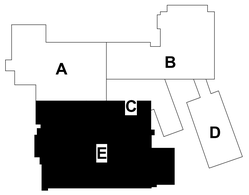

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Approved	**BRAGAR**

SHEET TITLE
FIRST FLOOR - PLUMBING - AREA E

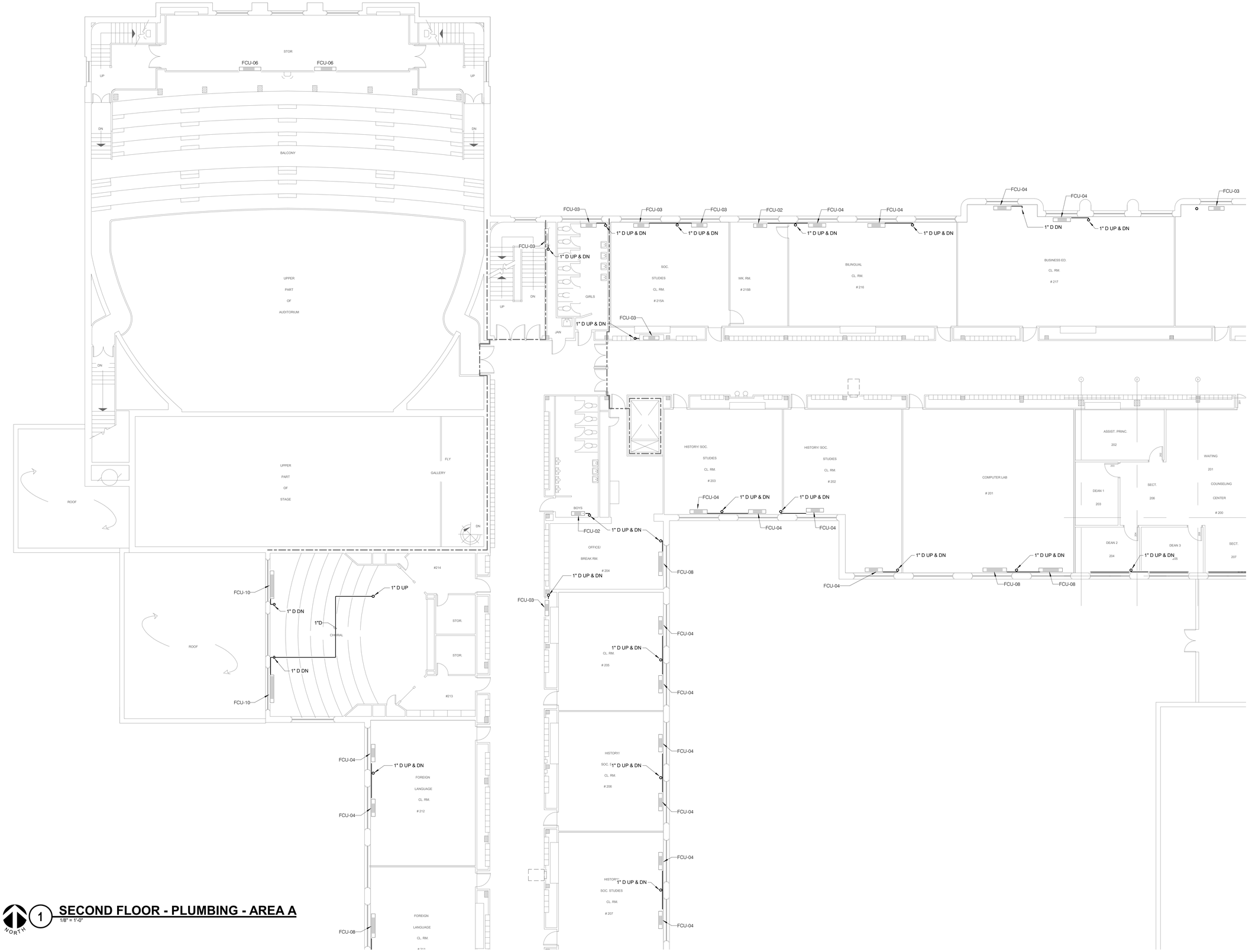
SCALE
Scale: **As indicated**

SHEET NUMBER
P201E

21002885.04 1/28/2022 1:03:09 PM ESSER HVAC Improvements - East High School

GENERAL SHEET NOTES:

1. ALL CONDENSATE DRAIN PIPING SHALL BE 3/4" UNLESS NOTED OTHERWISE.



1 SECOND FLOOR - PLUMBING - AREA A

1/8" = 1'-0"

NORTH

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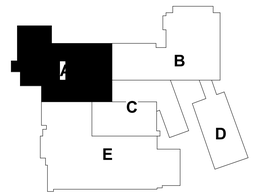

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Drawn	**BRAGAR**
Checked	**ALIHAM**
Approved	**BRAGAR**

SHEET TITLE

SECOND FLOOR - PLUMBING - AREA A

SCALE

Scale: **As indicated**

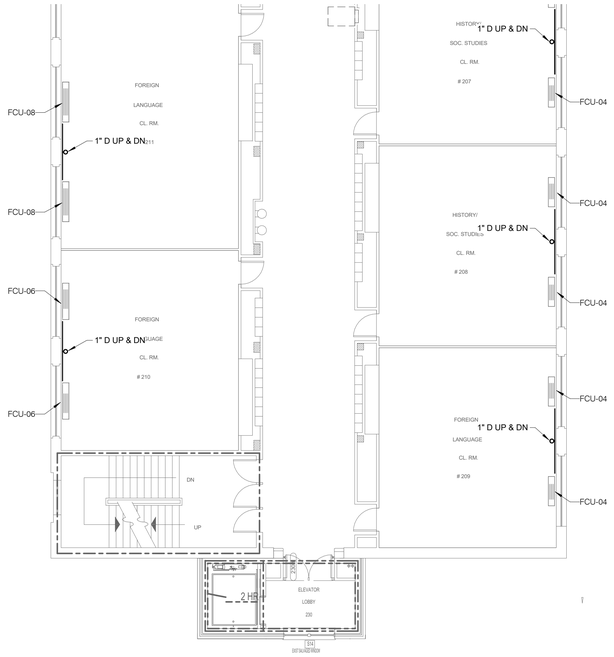
SHEET NUMBER

P202A

21002885.04 1/28/2022 1:03:16 PM ESSER HVAC Improvements - East High School

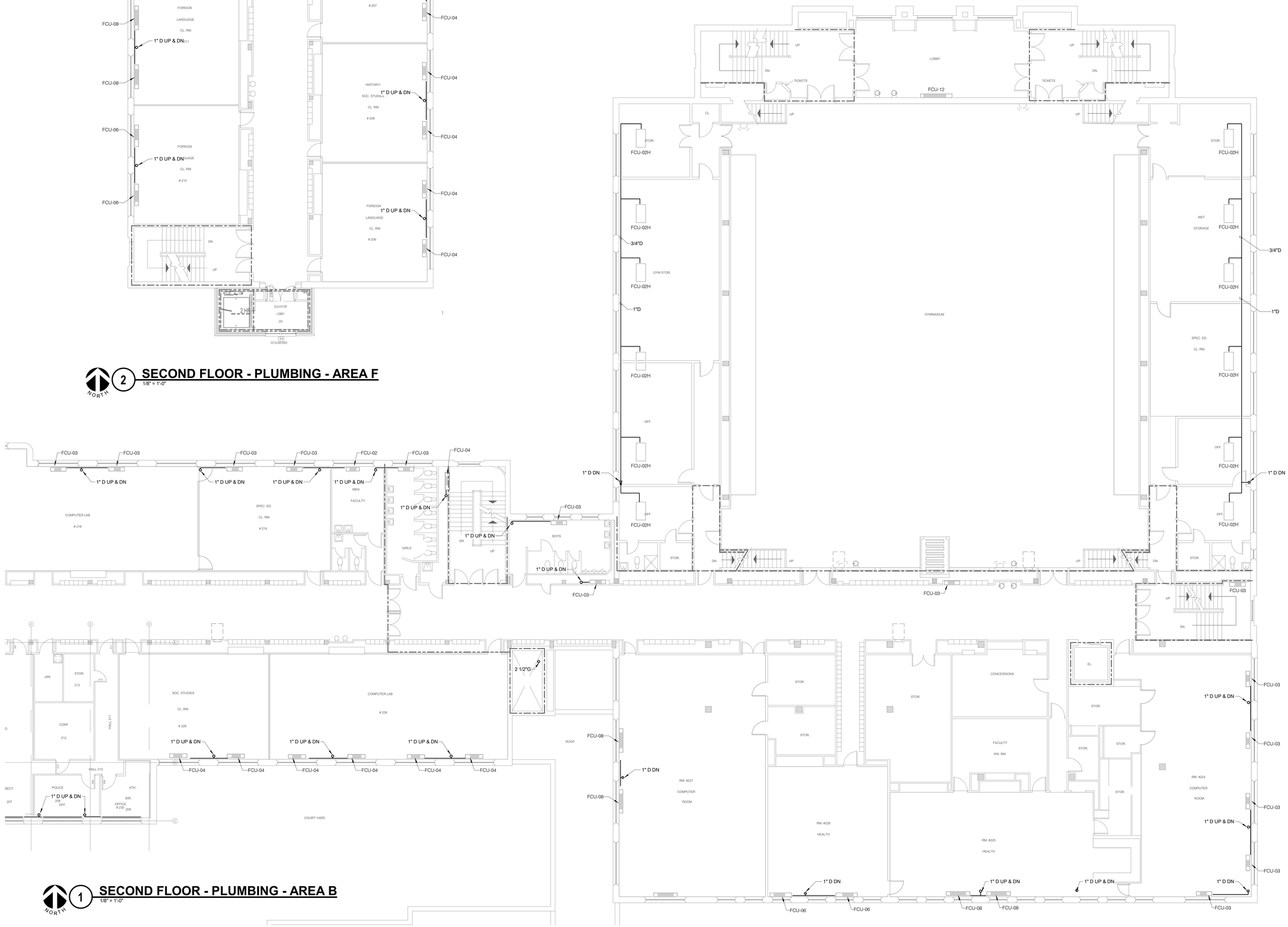
GENERAL SHEET NOTES:

1. ALL CONDENSATE DRAIN PIPING SHALL BE 3/4" UNLESS NOTED OTHERWISE.



NORTH 2 SECOND FLOOR - PLUMBING - AREA F

1/8" = 1'-0"



NORTH 1 SECOND FLOOR - PLUMBING - AREA B

1/8" = 1'-0"

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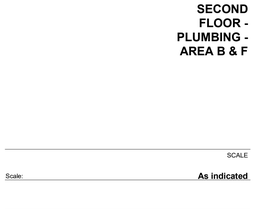
KEY PLAN



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REFERENCE SCALE IN INCHES

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Issue	BID DOCUMENTS
Date	JANUARY 28, 2022
Job Number	21002885.04
Drawn	BRAGAR
Checked	ALIHAM
Approved	BRAGAR

SHEET TITLE

SECOND FLOOR - PLUMBING - AREA B & F

SCALE

Scale: As indicated

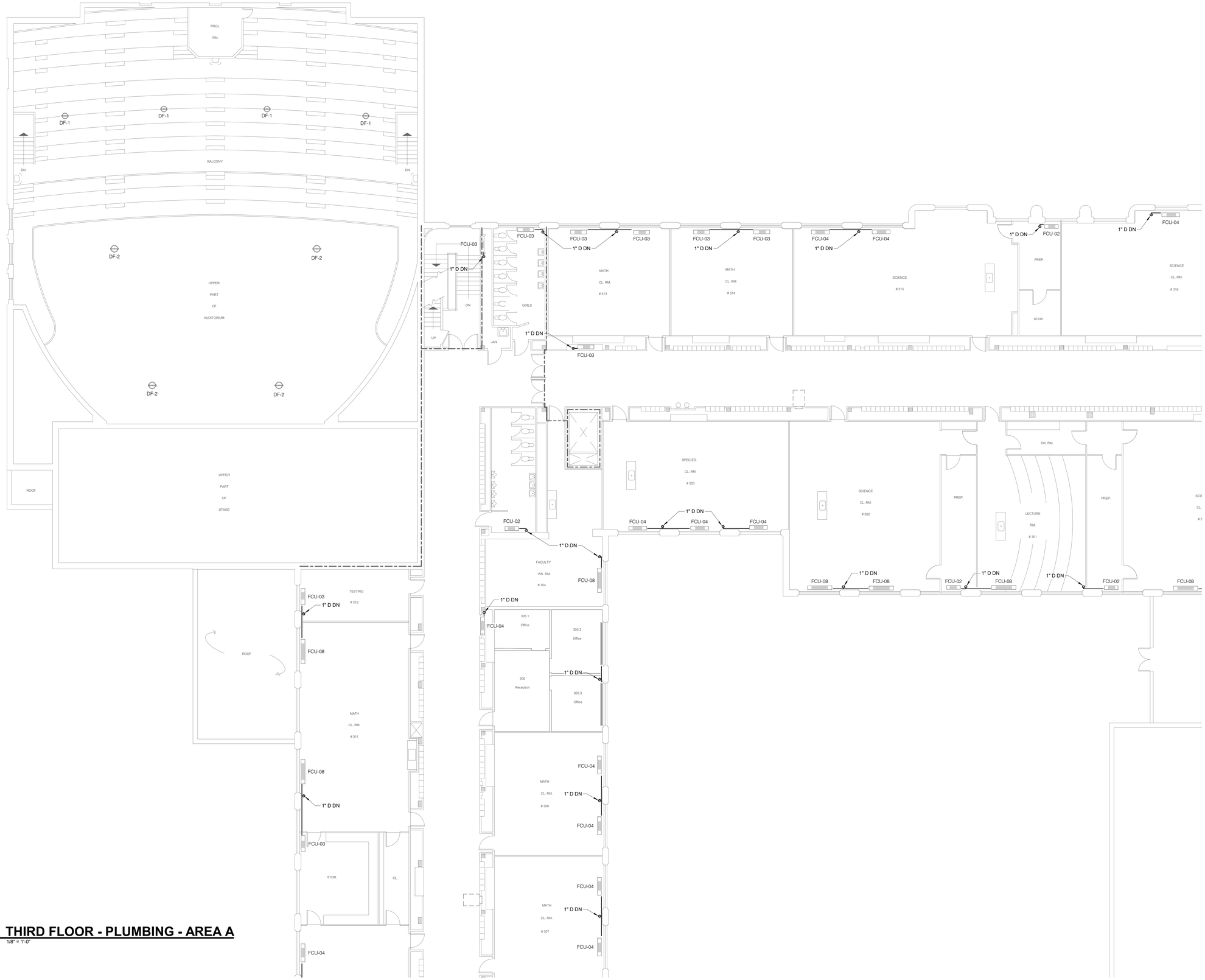
SHEET NUMBER

P202B

21002885.04 1/28/2022 1:03:23 PM ESSER HVAC Improvements - East High School

GENERAL SHEET NOTES:

1. ALL CONDENSATE DRAIN PIPING SHALL BE 3/4" UNLESS NOTED OTHERWISE.



1 THIRD FLOOR - PLUMBING - AREA A

1/8" = 1'-0"

NORTH

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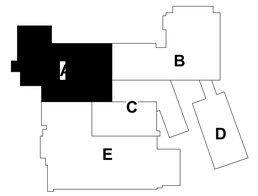

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Checked	**ALIHAM**
Approved	**BRAGAR**

SHEET TITLE

THIRD FLOOR - PLUMBING - AREA A

SCALE

Scale: **As indicated**

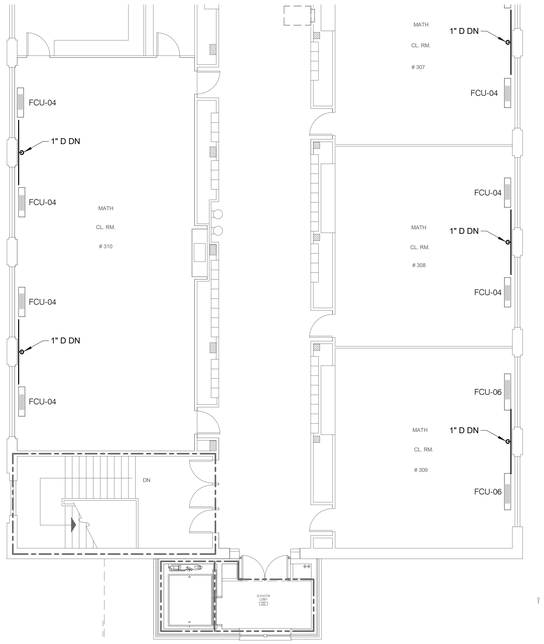
SHEET NUMBER

P203A

21002885.04 1/28/2022 1:03:28 PM ESSER HVAC Improvements - East High School

GENERAL SHEET NOTES:

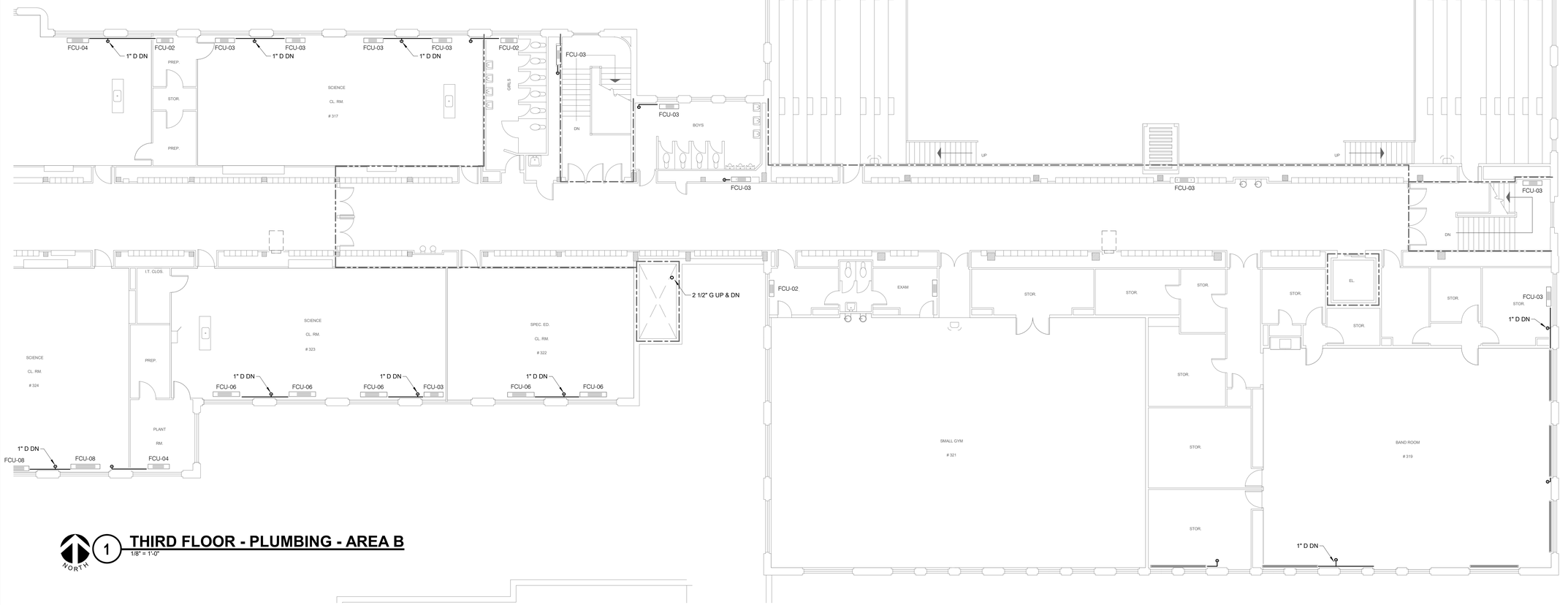
1. ALL CONDENSATE DRAIN PIPING SHALL BE 3/4" UNLESS NOTED OTHERWISE.



THIRD FLOOR - PLUMBING - AREA F

2 — 1/8" = 1'-0"

NORTH



THIRD FLOOR - PLUMBING - AREA B

1 — 1/8" = 1'-0"

NORTH

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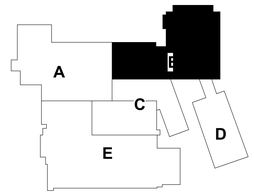
KEY PLAN



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SHEET TITLE

THIRD FLOOR - PLUMBING - AREA B & F

SCALE

Scale: **As indicated**

SHEET NUMBER

P203B

21002885.04 1/28/2022 1:03:34 PM ESSER HVAC Improvements - East High School

GENERAL SHEET NOTES:

1. THE ENTIRE ROOF, WITH THE EXCEPTION OF THE NEWER WHITE ROOFING, WILL BE REPLACED DURING THE SAME CONSTRUCTION SCHEDULE AS THIS WORK BUT UNDER A SEPARATE CONTRACT. COORDINATE ALL ROOF PLUMBING SCOPE WITH THE ROOFING CONTRACTOR. BIDDING WILL OCCUR AT A SIMILAR TIME, CONSTRUCTION SCHEDULE SHOULD BE COORDINATED TO OCCUR AT A SIMILAR TIME. FOR EXAMPLE, MECHANICAL DEMOLITION NEEDS TO BE COMPLETED PRIOR TO ROOF DEMOLITION.
2. ROUTE COOLING COIL CONDENSATE DRAIN FROM UNIT CONNECTION ALONG ROOF TO NEAREST ROOF DRAIN.

1 ROOF - PLUMBING - AREA A

1/8" = 1'-0"

NORTH

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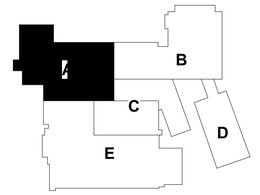

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SHEET TITLE

ROOF - PLUMBING - AREA A

SCALE

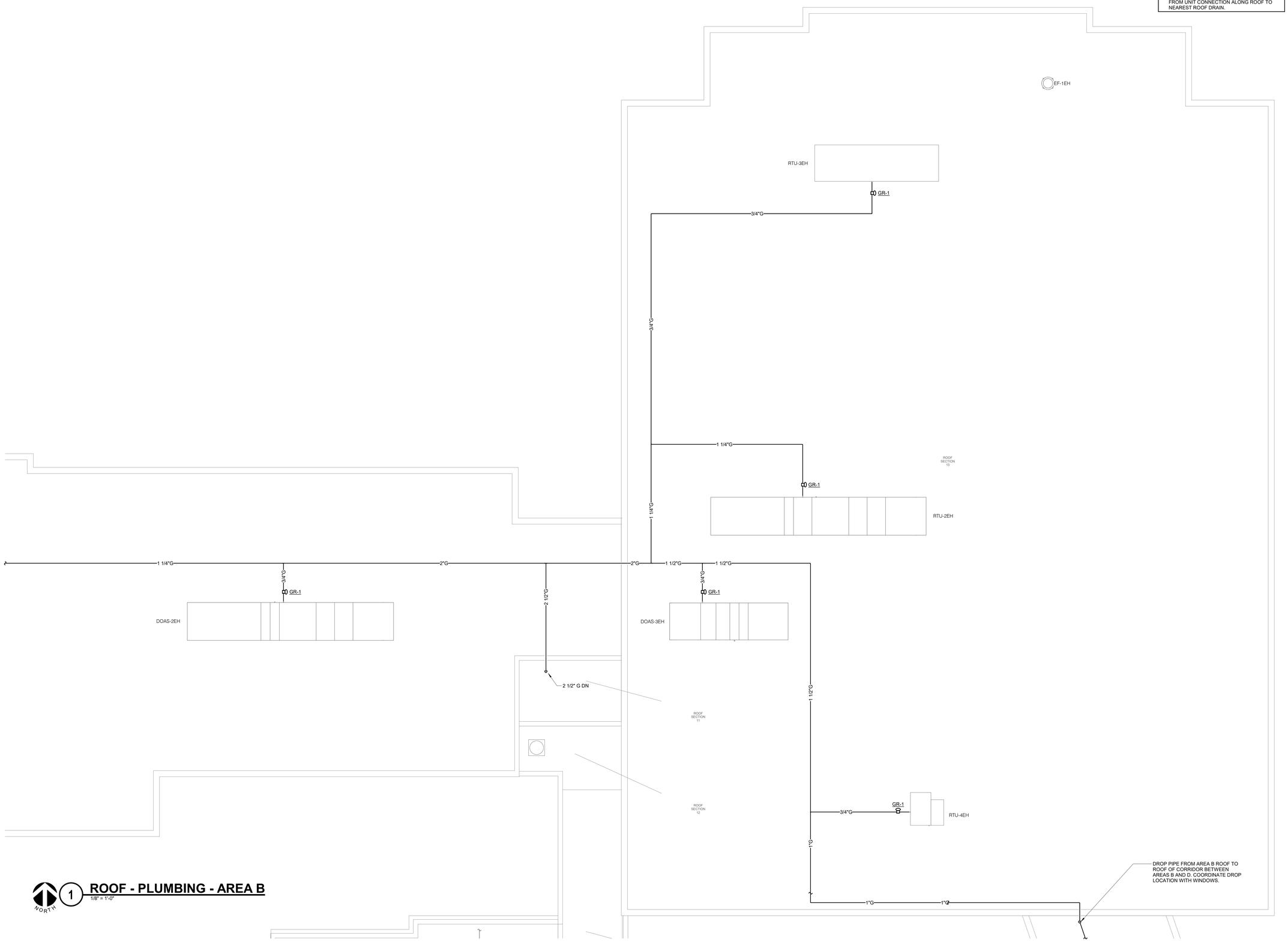
Scale: **As indicated**

SHEET NUMBER

P204A

GENERAL SHEET NOTES:

1. THE ENTIRE ROOF, WITH THE EXCEPTION OF THE NEWER WHITE ROOFING, WILL BE REPLACED DURING THE SAME CONSTRUCTION SCHEDULE AS THIS WORK BUT UNDER A SEPARATE CONTRACT. COORDINATE ALL ROOF PLUMBING SCOPE WITH THE ROOFING CONTRACTOR. BIDDING WILL OCCUR AT A SIMILAR TIME, CONSTRUCTION SCHEDULE SHOULD BE COORDINATED TO OCCUR AT A SIMILAR TIME. FOR EXAMPLE, MECHANICAL DEMOLITION NEEDS TO BE COMPLETED PRIOR TO ROOF DEMOLITION.
2. ROUTE COOLING COIL CONDENSATE DRAIN FROM UNIT CONNECTION ALONG ROOF TO NEAREST ROOF DRAIN.



1 ROOF - PLUMBING - AREA B

1/8" = 1'-0"

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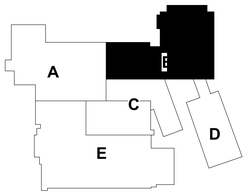

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SHEET TITLE

ROOF - PLUMBING - AREA B

SCALE

Scale: **As indicated**

SHEET NUMBER

P204B

21002885.04 1/28/2022 1:03:42 PM ESSER HVAC Improvements - East High School

GENERAL SHEET NOTES:

1. THE ENTIRE ROOF, WITH THE EXCEPTION OF THE NEWER WHITE ROOFING, WILL BE REPLACED DURING THE SAME CONSTRUCTION SCHEDULE AS THIS WORK BUT UNDER A SEPARATE CONTRACT. COORDINATE ALL ROOF PLUMBING SCOPE WITH THE ROOFING CONTRACTOR. BIDDING WILL OCCUR AT A SIMILAR TIME, CONSTRUCTION SCHEDULE SHOULD BE COORDINATED TO OCCUR AT A SIMILAR TIME. FOR EXAMPLE, MECHANICAL DEMOLITION NEEDS TO BE COMPLETED PRIOR TO ROOF DEMOLITION.
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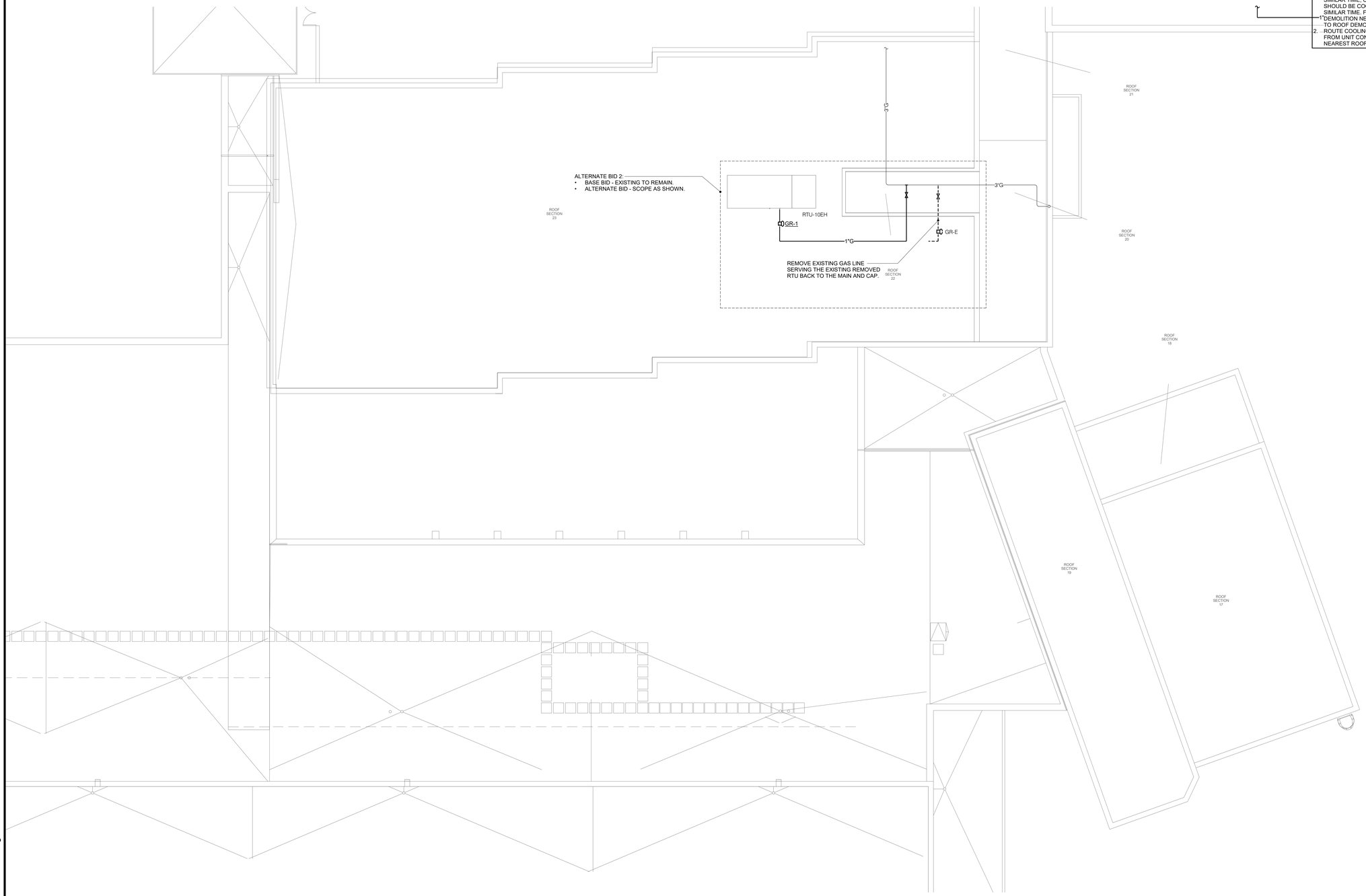

NORTH

1 ROOF - PLUMBING - AREA C

1/8" = 1'-0"

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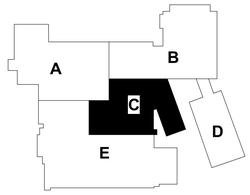
KEY PLAN



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Approved	**BRAGAR**

SHEET TITLE

ROOF - PLUMBING - AREA C

SCALE

Scale: **As indicated**

SHEET NUMBER

P204C

GENERAL SHEET NOTES:

1. THE ENTIRE ROOF, WITH THE EXCEPTION OF THE NEWER WHITE ROOFING, WILL BE REPLACED DURING THE SAME CONSTRUCTION SCHEDULE AS THIS WORK BUT UNDER A SEPARATE CONTRACT. COORDINATE ALL ROOF PLUMBING SCOPE WITH THE ROOFING CONTRACTOR. BIDDING WILL OCCUR AT A SIMILAR TIME, CONSTRUCTION SCHEDULE SHOULD BE COORDINATED TO OCCUR AT A SIMILAR TIME. FOR EXAMPLE, MECHANICAL DEMOLITION NEEDS TO BE COMPLETED PRIOR TO ROOF DEMOLITION.
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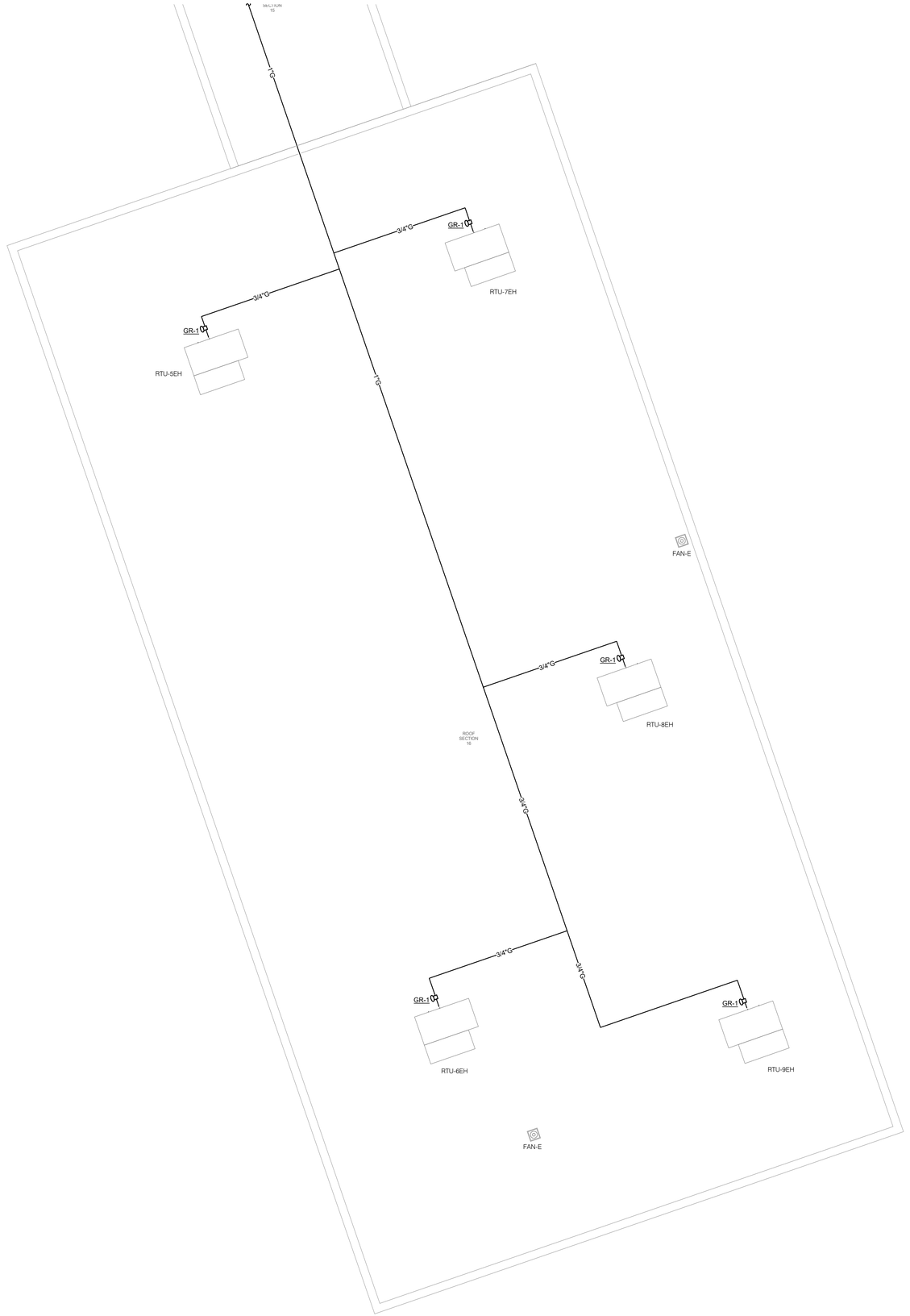

ROOF - PLUMBING - AREA D

1/8" = 1'-0"

NORTH

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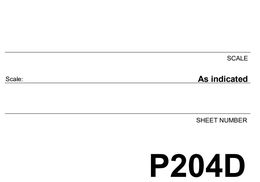
KEY PLAN



KEYPLAN

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Drawn	**BRAGAR**
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Approved	**BRAGAR**

SHEET TITLE

ROOF - PLUMBING - AREA D

SCALE

Scale: **As indicated**

SHEET NUMBER

P204D

21002885.04 1/28/2022 1:03:49 PM ESSER HVAC Improvements - East High School

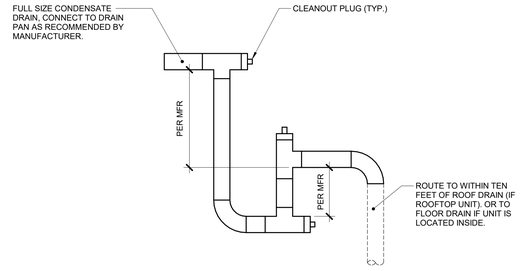
PIPE INSULATION SCHEDULE (PLUMBING)

GENERAL NOTES:
1. REFER TO THE SPECIFICATIONS FOR TYPE DESCRIPTIONS AND JACKETING REQUIREMENTS. VALUES LISTED BELOW ARE BASED ON ASHRAE / IECC REQUIREMENTS.
2. TYPE A INSULATION IS NOT ALLOWED IN NON-AIR CONDITIONED SPACES, SUCH AS MECHANICAL ROOMS, EXTERIOR, ATTICS, ETC.
3. TYPE B INSULATION GREATER THAN 1" THICK SHALL BE INSTALLED USING MULTIPLE LAYERS OF 3/4" OR 1" WITH STAGGERED SEAMS.
4. TYPE E IS NOT ALLOWED IN RETURN AIR PLENUMS, UNLESS LISTED AND LABELED AS 25/50 RATED PER ASTM E84/UL723
5. TYPE G 4" SHALL BE INSTALLED IN TWO (2) 2" LAYERS WITH STAGGERED SEAMS.
6. PROVIDE RIGID INSERT AT HANGERS, EITHER PRE-MANUFACTURED COUPLINGS (REFER TO PIPE HANGER AND SUPPORTS SPECIFICATIONS) OR TYPE C, D, OR E INSULATION. SEE SPEC. FOR MORE DETAILS.

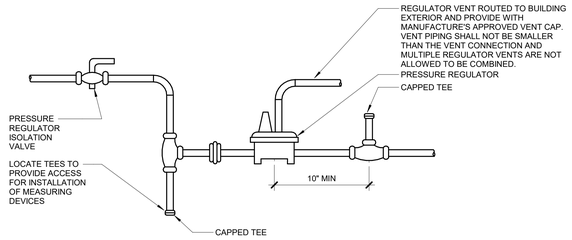
PIPE SYSTEM	INSULATION TYPE AND THICKNESS PER NOMINAL PIPE OR TUBE SIZE					INSULATION TYPE AND THICKNESS PER NOMINAL PIPE OR TUBE SIZE (DIRECT BURIED)					NOTES
	< 1"	1" TO < 1.5"	1.5" TO < 4"	4" TO < 8"	≥ 8"	< 1"	1" TO < 1.5"	1.5" TO < 4"	4" TO < 8"	≥ 8"	
CW - COLD WATER - POTABLE	A 0.5", B 0.5", E 0.5"	A 0.5", B 0.5", E 0.5"	A 1", B 1", E 1"	A 1", B 1", E 1"	A 1", B 1", E 1"						
D - DRAIN - PLUMBING	A 0.5", B 0.5", E 0.5"	A 0.5", B 0.5", E 0.5"	A 1", B 1", E 1"	A 1", B 1", E 1"	A 1", B 1", E 1"						APPLY INSULATION ONLY TO LOW TEMP DRAINS (55 DEG AND LOWER IE: COOLING COIL CONDENSATE, ICE MACHINE DRAINS, ETC.)
NCW - NON-POTABLE COLD WATER	A 0.5", B 0.5", E 0.5"	A 0.5", B 0.5", E 0.5"	A 1", B 1", E 1"	A 1", B 1", E 1"	A 1", B 1", E 1"						

PLUMBING MATERIAL LIST

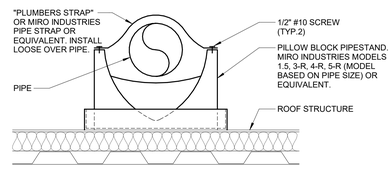
TAG NAME	DESCRIPTION	MANUFACTURER AND MODEL
BFP-1	BACK FLOW PREVENTER - REDUCED PRESSURE ZONE, LEAD FREE BRONZE CONSTRUCTION, SIZE SAME AS PIPE, NON-CORROSIVE INTERNAL PARTS, STAINLESS STEEL SPRINGS, DIFFERENTIAL PRESSURE RELIEF VALVE BETWEEN SPRING-LOADED CHECK VALVES, BALL STYLE SHUT-OFF VALVES ON INLET AND OUTLET OF UNIT, AIR GAP DRAIN FITTING, TEST PORTS WITH SHUT-OFF VALVES, RATED FOR 175 PSI AT 33°F TO 140°F, 15 PSI (MAXIMUM) PRESSURE DROP AT 10 FPS, FACTORY TESTED, ALL PARTS TO BE SERVICEABLE WITHOUT REMOVING UNIT FROM LINE, APPROVED BY USC FCCC & HR, AWWA C511-92, ASSE 1013, IAPMO AND SBCCI LISTED. MOUNT WITHIN 60" OF FINISHED FLOOR. ROUTE DRAIN PIPE FROM AIR GAP FITTING TO FLOOR DRAIN. PROVIDE AND INSTALL BRONZE OR EPOXY COATED STRAINER UPSTREAM OF EACH UNIT AND ADDITIONAL VALVE UPSTREAM OF EACH STRAINER. FLOW PRESSURE DROP CURVES SHALL BE SUBMITTED.	APOLLO (RPLF4A), WATTS (LF919), WILKINS (975XL2)
GR-1	GAS PRESSURE REGULATOR - CAST IRON BODY, EXTERNAL PRESSURE RELIEF, THREADED CONNECTIONS, ADJUSTABLE PRESSURE SETTING, TIGHT SHUTOFF. 5 PSI INLET PRESSURE, 10" W.C. OUTLET PRESSURE, CFH CAPACITY AS LISTED IN EQUIPMENT SCHEDULES ON THE DRAWINGS, MINIMUM CONTROLLABLE FLOW OF 40 CFH.	FISHER (HSR SERIES), ITRON, SENSUS, MAXITROL
WM-1	WATER METER - ELECTROMAGNETIC TYPE, LINE SIZE 316 STAINLESS STEEL FLOW TUBE, PTFE LINER MATERIAL, 150 PSI RATED OPERATING PRESSURE, 0.5% ACCURACY MINIMUM OVER FULL RANGE, METER REMOTE MOUNTED SIGNAL AMPLIFIER AND PROGRAMMABLE TRANSMITTER WITH DIGITAL DISPLAY, AWWA COMPLIANT. PROVIDE FULL SIZE BYPASS WITH LOCKABLE VALVE. FOR INSTALLATIONS IN NON-METALLIC PIPE SYSTEMS PROVIDE STAINLESS STEEL GROUNDING RINGS. ELECTRICAL REQUIREMENTS - 24VAC CONTROL SYSTEM CONNECTION TEMPERATURE CONTROLS REQUIREMENTS - METER WILL INCLUDE 4 DIGITAL OUTPUTS, 1 ANALOG OUTPUT AND 1 DIGITAL INPUT.	BADGER (M2000), ABB (WATERMASTER)



1 CONDENSATE TRAP DETAIL (DRAW-THROUGH)
NO SCALE



2 GAS PRESSURE REGULATOR DETAIL
NO SCALE



3 ROOF SUPPORT - EXPOSED PIPING PILLOW BLOCK
NO SCALE

NOTES:

1. SPACE STANDS AS REQUIRED TO MEET MANUFACTURERS RATED CAPACITIES.
2. COORDINATE PIPESTAND LOCATIONS WITH G.C.
3. PROVIDE EPDM PAD TO PROTECT ROOF IF REQUIRED BY ROOFING MANUFACTURER.
4. MIRO INDUSTRIES (800)768-6978.

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KEY PLAN

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REFERENCE SCALE IN INCHES
0 1 2

REVISIONS

No.	Date	Revision / Issue

SHEET INFORMATION

Issue	BID DOCUMENTS
Date	JANUARY 28, 2022
Job Number	21002885.04
Drawn	BRAGAR
Checked	ALIHAM
Approved	BRAGAR

SHEET TITLE

PLUMBING DETAILS AND SCHEDULES

SCALE

Scale: 12" = 1'-0"

SHEET NUMBER

P400

DESIGN CRITERIA AND LOADS

1. STRUCTURE HAS BEEN DESIGNED TO COMPLY WITH:
   IBC 2015
   ASCE/SEI 7-10
   ACI 318-14
   AISC 360-10
   AWS D1.1
   AISI S100
   BUILDING CODE OF ROCKFORD, STATE OF ILLINOIS
2. RISK CATEGORY III
3. WIND:
   BASIC WIND SPEED 115 MPH
   EXPOSURE CLASS B
   MWFRS DESIGN PRESSURE 25 PSF
4. SNOW:
   GROUND SNOW 25 PSF
   SNOW EXPOSURE FACTOR 1.0
   THERMAL FACTOR 1.0
   IMPORTANCE FACTOR 1.1
   FLAT-ROOF SNOW 20 PSF
   DESIGN SNOW 22 PSF
   DRIFTING SNOW PER APPLICABLE CODE

GENERAL

1. NEITHER THE PROFESSIONAL ACTIVITIES OF THE ENGINEER, NOR THE PRESENCE OF THE ENGINEER OR THEIR EMPLOYEES AND SUBCONSULTANTS AT THE CONSTRUCTION SITE, SHALL RELIEVE THE CONTRACTOR AND ANY OTHER ENTITY OF THEIR OBLIGATIONS, DUTIES AND RESPONSIBILITIES INCLUDING BUT NOT LIMITED TO, CONSTRUCTION MEANS, METHODS, SEQUENCE, TECHNIQUES OR PROCEDURES NECESSARY FOR PERFORMING, SUPERINTENDING OR COORDINATING ALL PORTIONS OF THE CONSTRUCTION WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS AND ANY HEALTH OR SAFETY PRECAUTIONS REQUIRED BY ANY REGULATORY AGENCIES. THE ENGINEER AND THEIR PERSONNEL HAVE NO AUTHORITY TO EXERCISE ANY CONTROL OVER ANY CONSTRUCTION CONTRACTOR OR OTHER ENTITY OR THEIR EMPLOYEES IN CONNECTION WITH THEIR WORK OR ANY HEALTH OR SAFETY PRECAUTIONS. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR THE JOBSITE SAFETY. THE ENGINEER AND THE ENGINEER'S CONSULTANTS SHALL BE MADE ADDITIONAL INSUREDS UNDER THE CONTRACTOR'S GENERAL LIABILITY INSURANCE POLICY.
2. ALL DRAWINGS ARE CONSIDERED TO BE A PART OF THE CONTRACT DOCUMENTS. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE REVIEW AND COORDINATION OF ALL DRAWINGS PRIOR TO THE START OF CONSTRUCTION. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT PRIOR TO THE START OF CONSTRUCTION SO A CLARIFICATION CAN BE ISSUED. ANY WORK PERFORMED IN CONFLICT WITH THE CONTRACT DOCUMENTS OR ANY CODE REQUIREMENTS SHALL BE CORRECTED BY THE CONTRACTOR AT THEIR OWN EXPENSE AND AT NO EXPENSE TO THE OWNER OR ARCHITECT.
3. ALL DIMENSIONS AND SITE CONDITIONS SHALL BE VERIFIED BY THE CONTRACTOR AT THE JOBSITE PRIOR TO CONSTRUCTION, START OF SHOP DRAWINGS, START OF CONSTRUCTION, AND/OR FABRICATION OF MATERIALS. IF DISCREPANCIES ARE ENCOUNTERED, OR CONDITIONS DEVELOP THAT ARE NOT COVERED BY THE CONTRACT DOCUMENTS, THE ARCHITECT SHALL BE NOTIFIED FOR CLARIFICATION.
4. CONTRACTOR SHALL PROVIDE AND BE RESPONSIBLE FOR THE PROTECTION AND REPAIR OF ADJACENT EXISTING SURFACES AND AREAS WHICH MAY BE DAMAGED AS A RESULT OF NEW WORK.
5. STRUCTURAL DRAWINGS INCLUDE DESIGN REQUIREMENTS AND DIMENSIONS FOR STRUCTURAL INTEGRITY BUT DO NOT SHOW ALL DETAIL DIMENSIONS TO FIT INTRICATE ARCHITECTURAL AND MECHANICAL DETAILS. CONTRACTOR SHALL SO CONSTRUCT THE WORK SO IT WILL CONFORM TO THE CLEARANCES REQUIRED BY ARCHITECTURAL, MECHANICAL AND ELECTRICAL DESIGN.
6. ALL SYMBOLS AND ABBREVIATIONS USED ON THE DRAWINGS ARE CONSIDERED TO BE CONSTRUCTION STANDARDS. IF CLARIFICATION IS REQUIRED, THE CONTRACTOR SHALL NOTIFY THE ARCHITECT PRIOR TO PROCEEDING WITH THE WORK.
7. DO NOT SCALE DRAWINGS. PRINTED DIMENSIONS HAVE PRECEDENCE OVER SCALED DRAWINGS AND LARGE-SCALE OVER SMALL-SCALE DRAWINGS. CONTRACTOR TO DETERMINE FINAL DIMENSION WITH ARCHITECT.
8. TYPICAL DETAILS SHALL APPLY TO SITUATIONS OCCURRING ON THE PROJECT THAT ARE THE SAME OR SIMILAR TO THOSE SPECIFICALLY REFERENCED. WHERE NO DETAILS ARE GIVEN, CONSTRUCTION SHALL BE AS SHOWN FOR SIMILAR WORK.
9. THE CONTRACT DOCUMENTS REPRESENT THE FINISHED STRUCTURE. THEY DO NOT INDICATE THE METHOD OF CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE ALL MEASURES NECESSARY TO PROTECT THE STRUCTURE AND SAFETY OF WORKMEN DURING CONSTRUCTION. SUCH MEASURES SHALL INCLUDE, BUT NOT BE LIMITED TO, BRACING AND SHORING FOR LOADS DUE TO CONSTRUCTION EQUIPMENT, ETC. OBSERVATION VISITS TO THE SITE BY THE ARCHITECT OR STRUCTURAL ENGINEER SHALL NOT INCLUDE INSPECTION OR APPROVAL OF THE ABOVE ITEMS AND DOES NOT IN ANY WAY RELIEVE THE CONTRACTOR OF THEIR RESPONSIBILITIES FOR THE ABOVE.
10. SEE ARCHITECTURAL, ELECTRICAL AND MECHANICAL DRAWINGS FOR DETAILS, CONDITIONS, PITS, TRENCHES, PADS, DEPRESSIONS, ROOF/FLOOR OPENINGS, STAIRS, SLEEVES, ITEMS TO BE EMBEDDED OR ATTACHED TO STRUCTURAL ELEMENTS, ETC., NOT SHOWN ON THE STRUCTURAL DRAWINGS.
11. ESTABLISH AND VERIFY ALL OPENINGS AND INSERTS FOR MECHANICAL, ELECTRICAL AND PLUMBING WITH APPROPRIATE TRADE CONTRACTORS. OPENING SIZES AND LOCATIONS SHOWN FOR DUCTS, PIPE, INSERTS AND OTHER PENETRATIONS WHEN SHOWN ARE FOR GENERAL INFORMATION ONLY AND SHALL BE VERIFIED PRIOR TO FORMING.
12. NO HOLES, NOTCHES, BLOCKOUTS, ETC. ARE ALLOWED IN STRUCTURAL ELEMENTS UNLESS SPECIFICALLY DETAILED ON THE STRUCTURAL DRAWINGS OR APPROVED BY THE STRUCTURAL ENGINEER.
13. BEFORE SUBMITTING A PROPOSAL FOR THIS WORK, EACH BIDDER SHALL VISIT THE PREMISES AND BECOME FULLY ACQUAINTED WITH THE EXISTING CONDITIONS, TEMPORARY CONSTRUCTION REQUIRED, QUANTITIES AND TYPE OF EQUIPMENT, ETC. THE BID SHALL INCLUDE ALL SUMS REQUIRED TO DO THE WORK WITHIN THE EXISTING CONDITIONS.
14. SHOP DRAWINGS SHALL BE REVIEWED AND COORDINATED PRIOR TO SUBMITTING TO THE ARCHITECT. EACH SHOP DRAWING SUBMITTED SHALL BE STAMPED INDICATING REVIEW BY THE CONSTRUCTION MANAGER/GENERAL CONTRACTOR AND REVIEW BY THE ARCHITECT SHALL NOT BEGIN UNTIL THIS IS COMPLETE. WORK SHALL NOT BEGIN WITHOUT REVIEW BY THE ARCHITECT/STRUCTURAL ENGINEER.
15. SHOP DRAWINGS SHALL BE REVIEWED BY THE ARCHITECT/STRUCTURAL ENGINEER FOR GENERAL CONFORMANCE WITH DESIGN CONCEPT ONLY. NOTATIONS MADE BY THE ARCHITECT/STRUCTURAL ENGINEER ON THE SHOP DRAWINGS DO NOT RELIEVE THE CONTRACTOR FROM COMPLYING WITH THE REQUIREMENTS OF THE DRAWINGS.
16. EXISTING CONDITIONS:
    A. EXISTING STRUCTURAL INFORMATION SHOWN WAS OBTAINED FROM EXISTING DRAWINGS DATED 1-2-1980 BY ROGER E. RASMUSSEN ASSOCIATES ARCHITECT , 3-7-2014 BY HAGNEY ARCHITECTS, AND 2-22-39 BY GILBERT A. JOHNSON ARCHITECT.
    B. ALL INFORMATION SHOWN ON THE DRAWINGS RELATIVE TO EXISTING CONDITIONS IS GIVEN AS THE BEST PRESENT KNOWLEDGE. CONTRACTOR TO VERIFY EXISTING INFORMATION, DIMENSIONS AND SIZES AS REQUIRED TO COMPLETE THEIR WORK. WHERE ACTUAL CONDITIONS CONFLICT WITH THE DRAWINGS, THEY SHALL BE REPORTED TO THE ARCHITECT OR STRUCTURAL ENGINEER SO PROPER CLARIFICATION MAY BE MADE. MODIFICATION OF CONSTRUCTION DETAILS SHALL NOT BE MADE WITHOUT WRITTEN APPROVAL OF THE ARCHITECT OR STRUCTURAL ENGINEER.

LINTELS

1. PROVIDE LINTELS OVER ALL OPENINGS AND RECESSES IN MASONRY CONSTRUCTION.
2. PENETRATIONS NOT IDENTIFIED ON THE DOCUMENTS ARE TO BE TREATED IN A MANNER SIMILAR TO THE IDENTIFIED LOCATIONS. LINTELS OCCURRING IN EXISTING BEARING WALLS ARE TO BE SIZED ACCORDING TO SIMILAR CONDITIONS AND SPANS IN THE NEW CONSTRUCTION. LINTELS ARE NOT REQUIRED OVER OPENINGS 12" WIDE OR LESS AND AT LEAST 1 COURSE BELOW THE TOP OF WALL.
3. LINTELS IN NON-BEARING MASONRY CAN BE SIZED PER THE FOLLOWING:

SPAN, L	STEEL OPTION (FOR EACH 4" OF MASONRY WIDTH)*	MASONRY BOND BEAM OPTIONS		
		6" BLOCK	8" BLOCK	10" BLOCK
0'-0" < L ≤ 2'-0"	5/16" PLATE	8" DEEP WITH (1) #4	8" DEEP WITH (1) #4	8" DEEP WITH (1) #5
2'-0" < L ≤ 4'-0"	L3 1/2x3 1/2x1/4	8" DEEP WITH (1) #4	8" DEEP WITH (1) #4	8" DEEP WITH (1) #5
4'-0" < L ≤ 6'-0"	L4x3 1/2x5/16 (LLV)	12" DEEP WITH (1) #4	12" DEEP WITH (1) #5	12" DEEP WITH (2) #5
6'-0" < L ≤ 8'-0"	L5x3 1/2x5/16 (LLV)	12" DEEP WITH (1) #5	12" DEEP WITH (2) #5	12" DEEP WITH (2) #5
8'-0" < L ≤ 10'-0"	L6x3 1/2x3/8 (LLV)	16" DEEP WITH (1) #5	16" DEEP WITH (2) #5	16" DEEP WITH (2) #5

   * ALL ANGLES THAT ARE BACK-TO-BACK SHALL BE WELDED TOP AND BOTTOM 3" AT 12" OC MINIMUM.
4. BOTTOM PLATE SIZE SHALL BE A MINIMUM OF 3/8" THICK AND A WIDTH OF 3/4" LESS THAN THE FIELD VERIFIED WALL THICKNESS, UNO. THE PLATE SHALL BE THE FULL LENGTH OF THE LINTEL MEMBER.
5. ALL LINTELS SHALL HAVE A MINIMUM OF 8" END BEARING AND DO NOT REQUIRE BEARING PLATES, UNO.
6. ALL LINTELS IN EXTERIOR WALL CONSTRUCTION SHALL BE HOT-DIP GALVANIZED, UNO.

STRUCTURAL TESTS AND INSPECTION

1. UNLESS NOTED, MATERIALS SHALL CONFORM AND TESTS AND INSPECTIONS SHALL BE PERFORMED BY THE INSPECTION AGENCY WHO IS APPROVED THE ARCHITECT AND THE STRUCTURAL ENGINEER. CONTINUOUS AND PERIODIC TESTING AND INSPECTION SHALL CONFORM TO IBC CHAPTER 17, AND AS FOLLOWS:
   A. STEEL CONSTRUCTION 1704.3 1705.2 CHAPTER N OF AISC 360
   B. WIND RESISTANCE 1705.10 1705.11
   C. SEISMIC RESISTANCE 1705.11, 1705.12 1705.12, 1705.13
2. REFER TO ARCHITECTURAL, CIVIL, MECHANICAL, PLUMBING AND ELECTRICAL DRAWINGS OR SPECIFICATIONS FOR TESTING AND INSPECTION REQUIREMENTS OF NON-STRUCTURAL COMPONENTS.
3. DUTIES OF THE INSPECTION AGENCY PER IBC CHAPTER 17:
   A. SUBMIT A PROPOSED TESTING AND INSPECTION PROGRAM TO THE OWNER, THE ARCHITECT AND THE STRUCTURAL ENGINEER FOR REVIEW AND APPROVAL AT LEAST TWO WEEKS PRIOR TO COMMENCEMENT OF WORK.
   B. PERFORM ALL TESTING AND INSPECTION REQUIRED PER APPROVED TESTING AND INSPECTION PROGRAM.
   C. FURNISH INSPECTION REPORT TO THE BUILDING OFFICIAL, THE OWNER, THE ARCHITECT, STRUCTURAL ENGINEER AND THE GENERAL CONTRACTOR. THE REPORTS SHALL BE COMPLETED AND FURNISHED WITHIN 48 HOURS OF INSPECTED WORK.
   D. SUBMIT A FINAL SIGNED REPORT STATING WHETHER THE WORK REQUIRING SPECIAL INSPECTION WAS, TO THE BEST OF THE SPECIAL INSPECTION AGENCY'S KNOWLEDGE, IN CONFORMANCE WITH THE APPROVED PLANS AND SPECIFICATIONS.

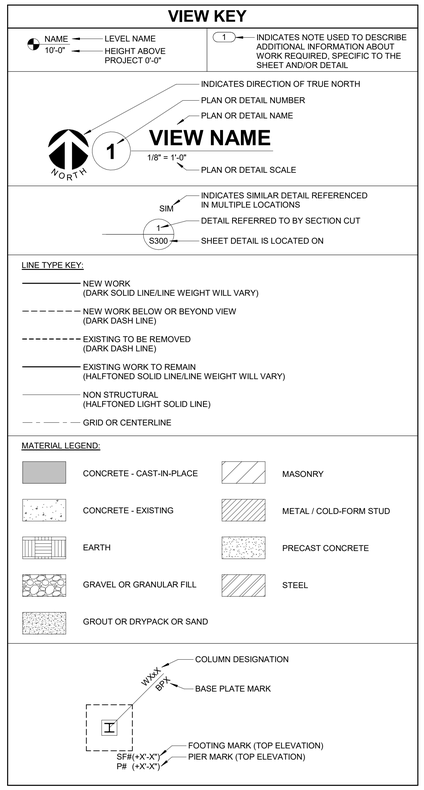
STEEL

1. STRUCTURAL STEEL SHALL BE DETAILED IN ACCORDANCE WITH THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC) "DETAILING FOR STEEL CONSTRUCTION" AND FABRICATED AND ERECTED IN ACCORDANCE WITH THE "SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS".
2. STRUCTURAL STEEL SHALL CONFORM TO ASTM STANDARDS AS NOTED BELOW:

WIDE FLANGE SHAPES	ASTM A992	Fy = 50 KSI
OTHER ROLLED SHAPES	ASTM A36	Fy = 36 KSI
HSS SECTIONS, ROUND	ASTM A500, GR C	Fy = 46 KSI
HSS SECTIONS, SQ/RECT	ASTM A500, GR B	Fy = 46 KSI
CONNECTION PLATES	ASTM A36	Fy = 36 KSI
ANCHOR RODS	ASTM F1554, GR 36	Fy = 36 KSI
ELECTRODES FOR ARC WELDING	AWS 5.1, E70XX	

3. ALL BOLTED CONNECTIONS SHALL BE BEARING TYPE, UNLESS NOTED OTHERWISE.
4. STANDARD BOLT HOLES IN STEEL SHALL BE 1/16 INCH LARGER IN DIAMETER THAN NOMINAL SIZE OF BOLT USED, UNO.
5. BOLTS IN SLOTTED HOLES SHALL BE LOCATED IN THE CENTER OF THE HOLE AFTER FIELD ASSEMBLY IS COMPLETE, UNLESS DETAILED OTHERWISE.
6. ALL WELDS SHALL CONFORM TO THE AMERICAN WELDING SOCIETY "STRUCTURAL WELDING CODE - STEEL" (AWS D1.1), "STRUCTURAL WELDING CODE AND BE MADE WITH APPROVED ELECTRODES.
7. WELD LENGTHS INDICATED ON THE DRAWINGS ARE THE NET EFFECTIVE LENGTH REQUIRED. WHERE FILLET WELD SYMBOL IS GIVEN WITHOUT INDICATION OF SIZE, USE MINIMUM SIZE WELDS AS SPECIFIED IN AISC 360, SECTION J2.4.
8. ALL WELDING OF STRUCTURAL STEEL SHALL BE PERFORMED BY CERTIFIED WELDERS WITH EXPERIENCE AND CERTIFICATION IN THE TYPES OF WELDING CALLED FOR. WELDERS SHALL HAVE BEEN RECENTLY QUALIFIED AS PRESCRIBED IN "QUALIFICATION PROCEDURES" OF THE AMERICAN WELDING SOCIETY (AWS).
9. FIELD CONNECTIONS SHALL BE WELDED OR BOLTED. SHOP CONNECTIONS SHALL BE WELDED, UNO. WELDS INDICATED WITH A SHOP WELD SYMBOL MAY BE MADE IN THE FIELD WITH THE APPROVAL OF THE STRUCTURAL ENGINEER. LOCATIONS OF ALL FIELD WELDS SHALL BE CLEARLY SHOWN ON THE SHOP DRAWINGS. WELDS SHALL BE DESIGNED TO BE FULLY EQUIVALENT IN STRENGTH TO BOLTED CONNECTIONS DETAILED TO MINIMIZE BENDING IN THE CONNECTION.
10. ALL STEEL EXPOSED TO WEATHER SHALL BE HOT-DIP GALVANIZED AFTER FABRICATION. ABRADED AREAS TO BE TOUCHED UP WITH GALVALOY. ALL HOLLOW SECTIONS SHALL HAVE WELDED CAP PLATES TO SEAL EXPOSED ENDS.
11. REFER TO DRAWINGS FOR DETAIL OF DECK OPENINGS, REFER TO ARCHITECTURAL, MECHANICAL, AND ELECTRICAL DRAWINGS, ETC. FOR EXACT SIZE, LOCATION, AND COUNT OF REQUIRED OPENINGS.
12. CUTS, HOLES, OPENINGS, ETC., REQUIRED IN STRUCTURAL STEEL MEMBERS FOR THE WORK OF OTHER TRADES SHALL BE SHOWN ON THE SHOP DRAWINGS. BURNING OF HOLES AND CUTS IN THE FIELD SHALL NOT BE ALLOWED, EXCEPT BY WRITTEN AUTHORIZATION FROM THE STRUCTURAL ENGINEER. NO HOLES SHALL BE CUT IN STRUCTURAL STEEL BY OTHER TRADES UNLESS SHOWN ON STRUCTURAL DRAWINGS OR APPROVED IN WRITING BY THE STRUCTURAL ENGINEER.
13. FURNISH AND INSTALL MISCELLANEOUS STEEL (CURBS, HANGERS, EXPANSION JOINT ANGLES, STRUTS, ETC.) AS CALLED FOR OR AS NECESSARY PER ARCHITECTURAL AND MECHANICAL/ELECTRICAL DRAWINGS.
14. THE STRUCTURAL STEEL FABRICATOR SHALL FURNISH SHOP DRAWINGS OF ALL STRUCTURAL STEEL FOR ARCHITECT/STRUCTURAL ENGINEER'S REVIEW BEFORE FABRICATION.

VIEW KEY



STRUCTURAL ABBREVIATION KEY

ABBR:	DESCRIPTION:
#	NUMBER OR POUNDS
@	AT
°	DEGREE
Ø	DIAMETER
-3"	SLAB DEPRESSION
A.B.	ANCHOR BOLT
AHU	AIR-HANDLING UNIT
ARCH	ARCHITECT, -URE, -URAL
B.O.	BOTTOM OF
bf	BEAM FLANGE WIDTH
BF	BRACE FRAME
BLKG	BLOCKING
BM	BEAM
B.N.	BOUNDARY NAILING
B.O.F.	BOTTOM OF FOOTING
BOTT	BOTTOM
BP	BASE PLATE
BTWN	BETWEEN
CFSF	COLD FORM STEEL FRAMING
CLR	CLEAR
CL	CENTERLINE
CMU	CONCRETE MASONRY UNIT
COL	COLUMN
CONC	CONCRETE
CONT	CONTINUOUS
C.P.	COMPLETE JOINT PENETRATION WELD
DIA	DIAMETER
DIM	DIMENSION
DL	DEAD LOAD
DET	DETAIL
DWG	DRAWING
DWL	DOWEL
EA	EACH
EF	EACH FACE
EL	ELEVATION
ELEC	ELECTRICAL
ELEV	ELEVATOR
E.N.	EDGE NAILING
EOD	EDGE OF DECK
EOS	EDGE OF SLAB
EQ	EQUAL
EQUIP	EQUIPMENT
EW	EACH WAY
(E)	EXISTING
EXP	EXPANSION
EXT	EXTERIOR
f 'c	CONCRETE COMPRESSIVE STRENGTH
FDN	FOUNDATION
FIN	FINISH, -ED
FLR	FLOOR
F.N.	FIELD NAILING
F.O.S.	FACE OF STUD
F.O.W.	FACE OF WALL
FRMG	FRAMING
FT	FOOT
FTG	FOOTING
Fy	YIELD STRESS
GA	GAGE OR GAUGE
GALV	GALVANIZED
GB	GRADE BEAM
HI	HIGH
HORIZ	HORIZONTAL
HSB	HIGH STRENGTH BOLT
IN	INCH
INT	INTERIOR
JT	JOINT
K, KIP	KILOPOUND (1,000 POUNDS)
KSP	KIPS PER SQUARE FOOT
LB	POUND
LL	LIVE LOAD
LLH	LONG LEG HORIZONTAL
LLV	LONG LEG VERTICAL
LSH	LONG SIDE HORIZONTAL
LSV	LONG SIDE VERTICAL
LO	LOW
LONG	LONGITUDINAL
LT WT	LIGHTWEIGHT
M.B.	MACHINE BOLT
MAX	MAXIMUM
MECH	MECHANICAL
MANUF	MANUFACTURER
MIN	MINIMUM
MTL	METAL
N	NORTH
(N)	NEW
NIC	NOT IN CONTRACT
NTS	NOT TO SCALE
OC	ON CENTER
OH	OPPOSITE HAND
OPNG	OPENING
PC	PIECE
PCF	POUNDS PER CUBIC FOOT
P.H.	PENTHOUSE
PL	PLATE
PLF	POUNDS PER LINEAR FOOT
PLYWD	PLYWOOD
P.P.	PARTIAL JOINT PENETRATION WELD
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PTDF	PRESSURE TREATED DOUGLAS FIR
R	RADIUS
REINF	REINFORCING, -MENT, -ED
REQD	REQUIRED
RTU	ROOF TOP UNIT
SC	TC WITH CLASS A FAYING SURFACE
SCBF	SPECIAL CONCENTRIC BRACE FRAME
SCHED	SCHEDULE
SEPN	SEPARATION
SIM	SIMILAR
SHTG	SHEATHING
SL	SNOW LOAD
SLRS	SEISMIC LOAD RESISTING SYSTEM
SOG	SLAB ON GRADE
SP	SPACE(S)
SPEC	SPECIFICATION(S)
SQ	SQUARE
STIFF	STIFFENER
STL	STEEL
SUPPT	SUPPORT
SYM	SYMMETRICAL
T&B	TOP AND BOTTOM
T.O.	TOP OF
T.O.S.	TOP OF STEEL
T.O.W.	TOP OF WALL
TC	PRE-TENSIONED BOLT
TEMP	TEMPERATURE
tf	BEAM FLANGE THICKNESS
THK	THICK
TRANS	TRANSVERSE
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE
VERT	VERTICAL
VIF	VERIFY IN FIELD
VWA	VERIFY WITH ARCHITECTURAL DRAWINGS
W/	WITH
WP	WORK POINT
WT	WEIGHT
WWR	WELDED WIRE REINFORCING

STRUCTURAL SYMBOL LIST

NOT ALL SYMBOLS MAY APPLY

SYMBOL:	DESCRIPTION:	DETAIL REFERENCE:
-1"	SLAB DEPRESSION	
	METAL DECK (DIRECTION)	
(+16'-3")	TOP OF STEEL FRAMING ELEVATION ABOVE ELEVATION +0' - 0"	
	HOLE IN BEAM	

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PROFESSIONAL SEAL

CONSULTANT
(MAY BE USED FOR ANY OTHER REQUIREMENT IF THERE IS NO CONSULTANT)

KEY PLAN

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REFERENCE SCALE IN INCHES 0 1 2

REVISIONS

No.	Date	Revision / Issue

SHEET INFORMATION

Issue	**100% CD**
Date	**01-28-2022**
Job Number	**21002885.04**
Drawn	**MATORT**
Checked	**LISPOG**
Approved	**TODBAR**

SHEET TITLE

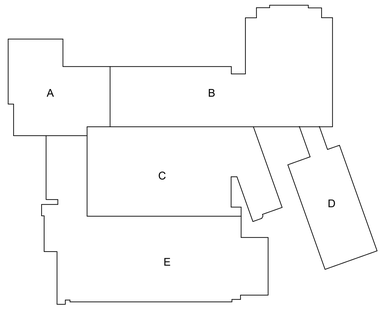
GENERAL NOTES

SCALE

Scale: **As indicated**

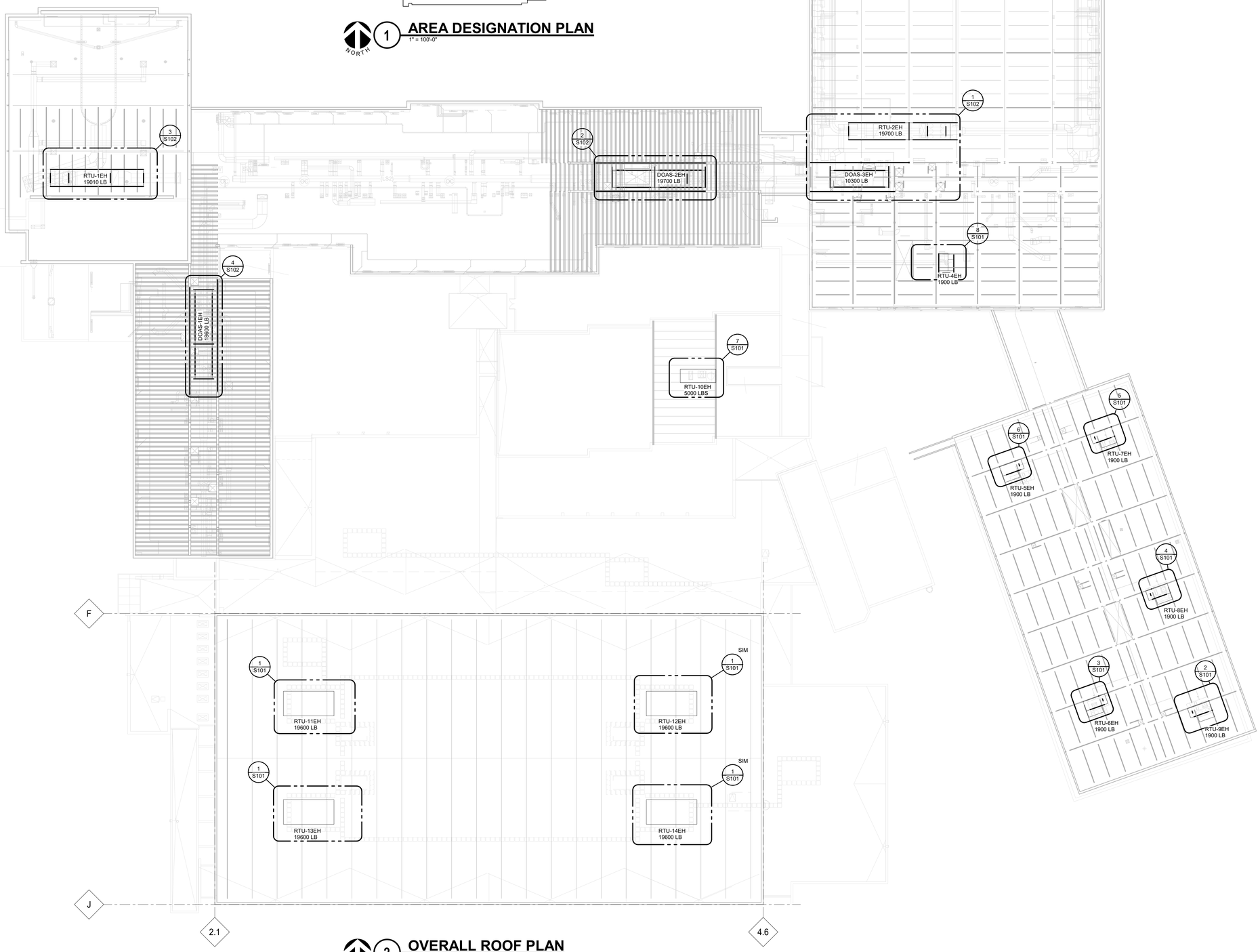
SHEET NUMBER

S000



1 AREA DESIGNATION PLAN
1" = 100'-0"

NORTH



2 OVERALL ROOF PLAN
1" = 20'-0"

NORTH

NOTES:
1. FRAMING WAS ANALYZED BASED ON EQUIPMENT LOCATIONS SHOWN ON PLAN. NOTIFY STRUCTURAL ENGINEER IF ACTUAL EQUIPMENT LOCATIONS AND WEIGHT VARY FROM WHAT IS SHOWN.
2. SEE MECHANICAL DRAWINGS FOR DIMENSIONS NOT GIVEN HERE.
3. SNOW DRIFTS ARE ADDITIONAL TO DESIGN AND SNOW IS SYMMETRICAL ON RTU LOCATIONS.
4. GENERAL CONTRACTOR TO COORDINATE WITH MECHANICAL CONTRACTOR IN SELECTED UNITS TO HAVE OPENINGS TO BE LOCATED BETWEEN FRAMING. MODIFY MECHANICAL AS REQUIRED. NOTIFY TEAM IF OPENINGS CONFLICT WITH EXISTING FRAMING.
5. RTU-11 EH, RTU-13EH AND RTU-14EH WILL BE INSTALLED UNDER ALTERNATE BID #1 CONTRACT. SHALL REINFORCE STRUCTURE TO ACCOMMODATE NEW UNITS UNDER ADD ALTERNATE #1. UNDER BASE BID, NO REINFORCEMENT REQUIRED AS EXISTING UNITS TO REMAIN.
6. RTU-10EH WILL BE INSTALLED UNDER ALTERNATE BID #2 CONTRACT. SHALL REINFORCE STRUCTURE TO ACCOMMODATE NEW UNIT UNDER ALTERNATE #2. UNDER BASE BID, NO REINFORCEMENT REQUIRED AS EXISTING UNIT TO REMAIN.
7. REINFORCE JOIST FOR CONCENTRATED POINT LOADS AT THE JOIST BOTTOM OR TOP CHORD PER S/S300.
8. ALL NEW OPENINGS TO GO THROUGH FLOORS MUST AVOID EXISTING FRAMING. SEE DETAIL 3/S300 FOR ADDITIONAL REINFORCING, AS REQUIRED.

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REVISIONS

No.	Date	Revision / Issue

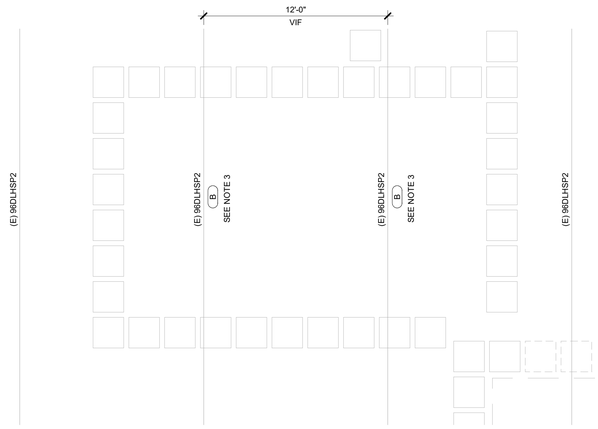
SHEET INFORMATION

Issue	100% CD
Date	01-28-2022
Job Number	21002885.04
Drawn	MATORT
Checked	LISPOG
Approved	TODBAR

SHEET TITLE
OVERALL ROOF PLAN

SCALE
Scale: As indicated

SHEET NUMBER
S100

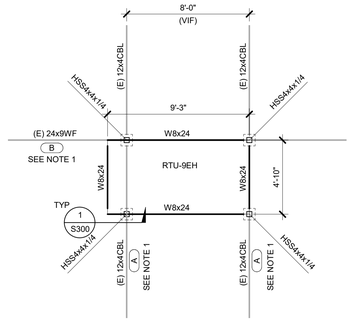


NOTES:

1. PLAN IS APPLICABLE FOR RTU-11, RTU-12 (SIM), RTU-13 AND RTU-14 (SIM).
2. (E) CURB AND (E) OPENINGS TO BE USED FOR NEW UNITS, THEREFORE NO NEW ANGLE FRAMING REQUIRED.
3. SEE 7/S300 FOR JOIST REINFORCING.

1 ROOF FRAMING PLAN AT (E) RTU CURBS - AREA E

1/4" = 1'-0"

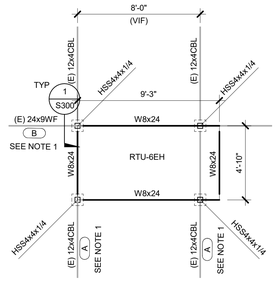


NOTE:

1. SEE 8/S300 FOR REINFORCEMENT TO EXISTING STEEL BEAM.

2 ROOF FRAMING PLAN RTU-9EH - AREA D

1/4" = 1'-0"

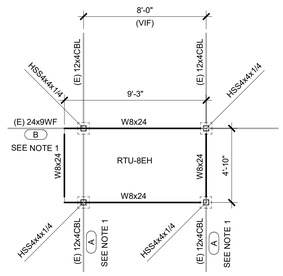


NOTE:

1. SEE 8/S300 FOR REINFORCEMENT TO EXISTING STEEL BEAM.

3 ROOF FRAMING PLAN RTU-6EH - AREA D

1/4" = 1'-0"

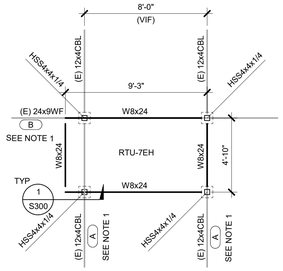


NOTE:

1. SEE 8/S300 FOR REINFORCEMENT TO EXISTING STEEL BEAM.

4 ROOF FRAMING PLAN RTU-8EH - AREA D

1/4" = 1'-0"

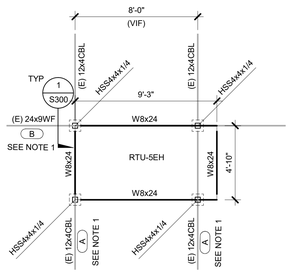


NOTE:

1. SEE 8/S300 FOR REINFORCEMENT TO EXISTING STEEL BEAM.

5 ROOF FRAMING PLAN RTU-7EH - AREA D

1/4" = 1'-0"

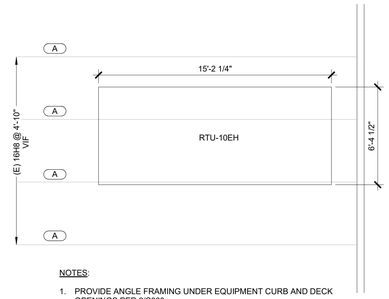


NOTE:

1. SEE 8/S300 FOR REINFORCEMENT TO EXISTING STEEL BEAM.

6 ROOF FRAMING PLAN RTU-5EH - AREA D

1/4" = 1'-0"

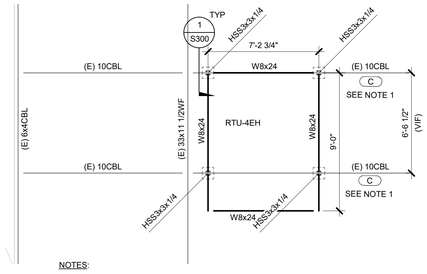


NOTES:

1. PROVIDE ANGLE FRAMING UNDER EQUIPMENT CURB AND DECK OPENINGS PER 3/S300.
2. (A) SEE 7/S300 FOR JOIST REINFORCING WHERE CONCRETRATED LOADS ARE APPLIED TO JOIST.

7 ROOF FRAMING PLAN RTU-10EH - AREA C

1/4" = 1'-0"

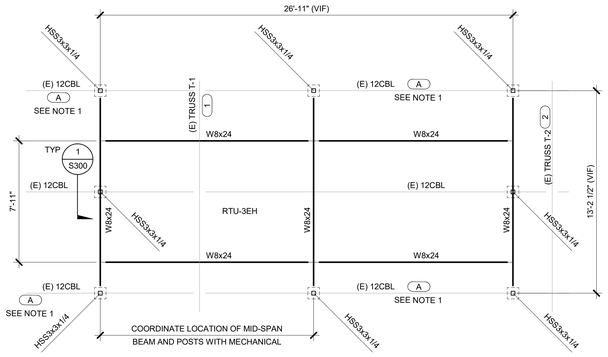


NOTES:

1. SEE DETAIL 8/S300 FOR REINFORCEMENT TO EXISTING STEEL BEAM.
2. SEE DETAIL 1/S300 FOR CONNECTION OF STEEL POST TO (E) STEEL BEAM.

8 ROOF FRAMING PLAN RTU-4EH - AREA B

1/4" = 1'-0"



NOTES:

1. SEE 8/S300 FOR REINFORCEMENT TO EXISTING STEEL BEAM.
2. SEE DETAIL 1/S300 FOR CONNECTION OF STEEL POST TO (E) STEEL BEAM.

KEYNOTES:

1. SEE 1/S301 FOR (E) TRUSS REINFORCEMENT.
2. SEE 2/S301 FOR (E) TRUSS REINFORCEMENT.

9 ROOF FRAMING PLAN - RTU-3EH - AREA B

1/4" = 1'-0"

NOTES:

1. ALL EXPOSED STEEL TO BE HOT-DIP GALVANIZED.
2. PROVIDE GALVANIZED COATING TO THE WELDS ABOVE ROOF DECK.
3. STRUCTURAL FRAMING TO BE CENTERED BELOW MECHANICAL UNIT CURBS. VERIFY ALL DIMENSIONS OF STRUCTURAL FRAMING WITH EXISTING CONDITIONS AND FINAL SELECTED MECHANICAL EQUIPMENT PRIOR TO FABRICATION.
4. SEE DETAIL 2/S300 FOR TYPICAL SHEAR CONNECTION.
5. PROVIDE ANGLE FRAMING AROUND ALL ROOF DECK OPENINGS PER 3/S300, UNO.
6. INSTALL EXISTING BEAM AND JOIST REINFORCING PRIOR TO MECHANICAL UNIT INSTALLATION.

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REVISIONS

No.	Date	Revision / Issue

SHEET INFORMATION

Issue	100% CD
Date	01-28-2022
Job Number	21002885.04
Drawn	MATORT
Checked	LISPOG
Approved	TODBAR

SHEET TITLE

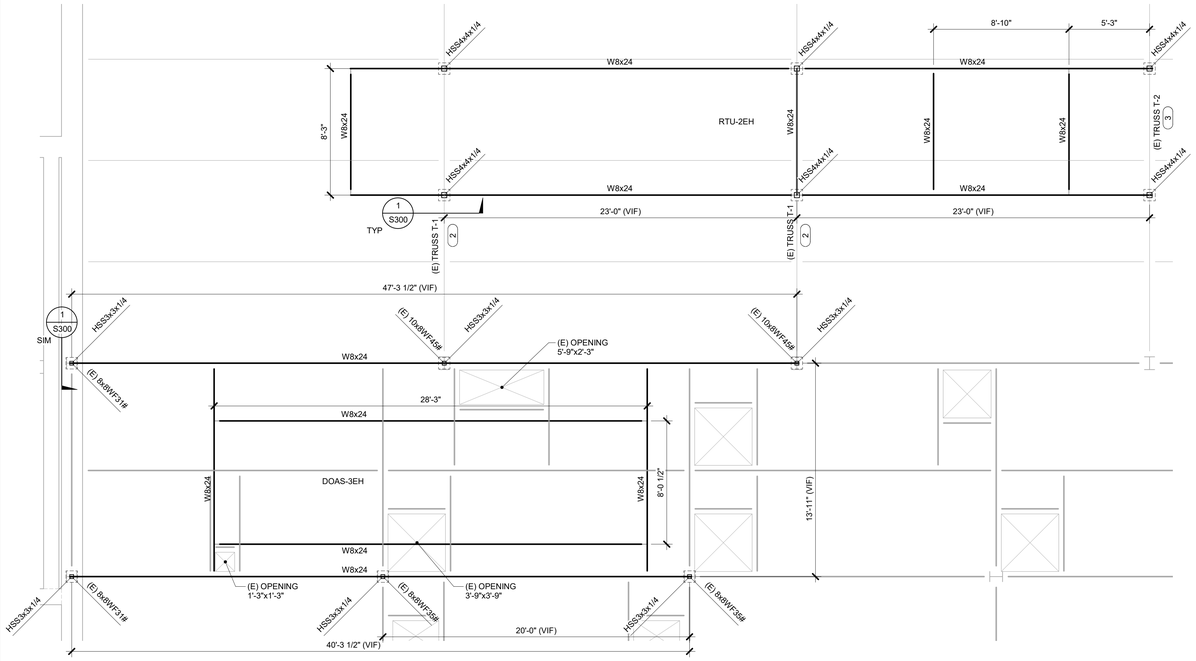
SUPPORT FRAMING PLANS

SCALE

Scale: As indicated

SHEET NUMBER

S101



KEYNOTES: (#)

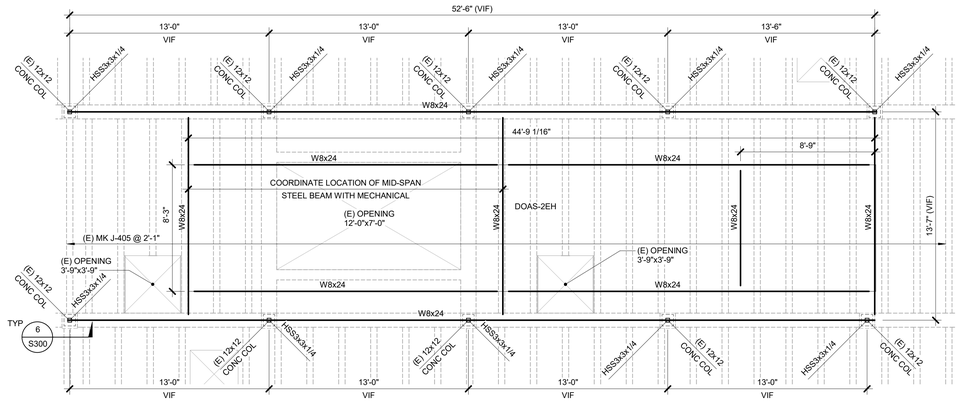
1. SEE DETAIL 1/S300 FOR CONNECTION OF STEEL POST TO (E) STEEL COLUMN.
2. EXISTING TRUSS TO BE REINFORCED. SEE DETAIL 1/S301.
3. EXISTING TRUSS TO BE REINFORCED. SEE DETAIL 2/S301.

1 ROOF FRAMING PLAN - RTU-2EH AND DOAS-3EH - AREA B

1/4" = 1'-0"

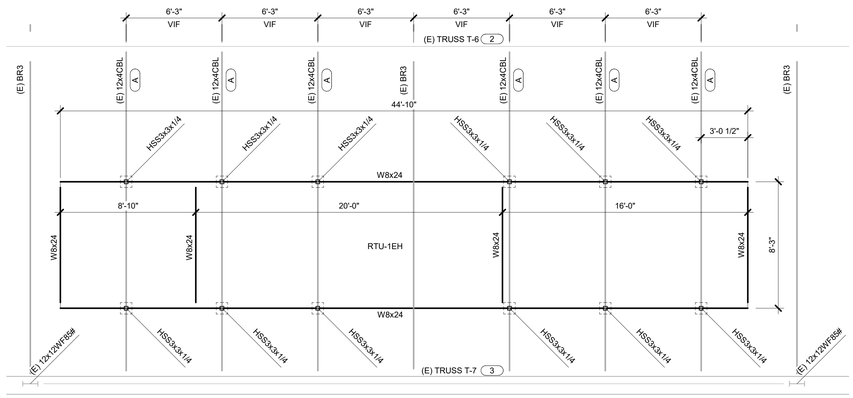
NOTES:

1. NEW STEEL, BOLTS ABOVE DECK TO BE HOT-DIP GALVANIZED.
2. PROVIDE GALVANIZED COATING TO THE WELDS ABOVE ROOF DECK.
3. VERIFY DIMENSIONS OF BEAMS, POSTS WITH EXISTING CONDITIONS AND COORDINATE WITH MECHANICAL.
4. REFER TO DETAIL 2/S300 FOR TYPICAL SHEAR CONNECTION.
5. REFER TO DETAIL 3/S300 FOR ANGLE FRAMING AROUND OPENING.



2 ROOF FRAMING PLAN - DOAS-2EH - AREA B

1/4" = 1'-0"



KEYNOTES:

1. SEE DETAIL 8/S300 FOR REINFORCEMENT TO EXISTING STEEL BEAM. SEE DETAIL 1/S300 FOR CONNECTION OF STEEL POST TO (E) STEEL BEAM.
2. EXISTING TRUSS TO BE REINFORCED. SEE DETAIL 3/S301.
3. EXISTING TRUSS TO BE REINFORCED. SEE DETAIL 4/S301.

3 ROOF FRAMING PLAN - RTU-1EH - AREA A

1/4" = 1'-0"

4 ROOF FRAMING PLAN - DOAS-1EH - AREA A

1/4" = 1'-0"

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REVISIONS

No.	Date	Revision / Issue

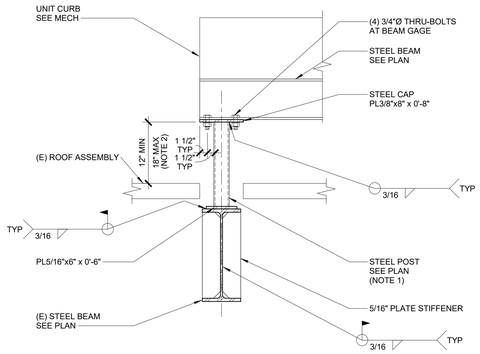
SHEET INFORMATION

Issue	100% CD
Date	01-28-2022
Job Number	21002885.04
Drawn	MATORT
Checked	LISPOG
Approved	TODBAR

SHEET TITLE
SUPPORT FRAMING PLANS

SCALE
Scale: As indicated

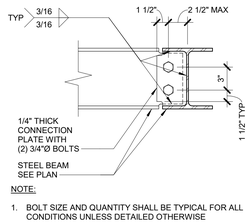
SHEET NUMBER
S102



NOTE:

1. COORDINATE HEIGHT OF POST TO BE COORDINATED WITH ARCHITECT/EXISTING CONDITIONS. NEW STEEL FRAMING TO BE ABOVE FINISHED ROOF AS SHOWN.
2. STEEL FOR RTU SUPPORT SHALL BE LEVEL.

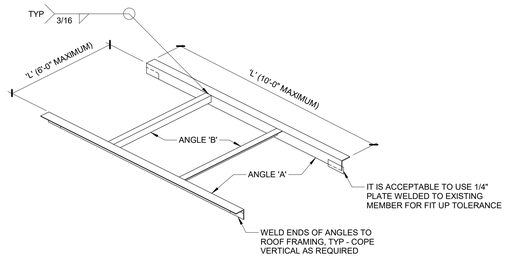
1 FRAMING DETAIL
1" = 1'-0"



NOTE:

1. BOLT SIZE AND QUANTITY SHALL BE TYPICAL FOR ALL CONDITIONS UNLESS DETAILED OTHERWISE

2 TYPICAL SHEAR CONNECTION TO BEAM
1 1/2" = 1'-0"

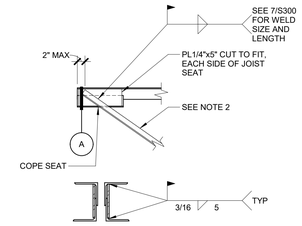


'L'	ANGLE 'A'	ANGLE 'B'
UP TO 1'-0"	NONE	NONE
1'-1" TO 4'-6"	L4x4x1/4	L4x4x1/4
4'-7" TO 6'-0"	L4x4x5/16	L4x4x1/4

NOTES:

1. USE THE ABOVE FRAMING AT ALL OPENINGS EXCEEDING 1'-0" UNO.
2. SEE ARCHITECTURAL AND MECHANICAL DRAWINGS FOR SIZE AND LOCATION OF ALL OPENINGS.
3. ROOF OPENING FRAMING NOT REQUIRED AT SIDE DISCHARGE ROOF DRAINS. COORDINATE WITH MECHANICAL CONTRACTOR.

3 ROOF OPENING DETAIL
3/4" = 1'-0"

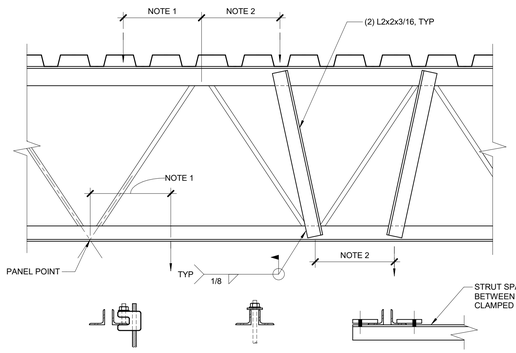


SECTION A

NOTES:

1. DETAIL REQUIRED ONLY WHEN FIRST WEB MEMBER IS REINF.
2. ANGLE REINF SHOWN TO ILLUSTRATE CONCEPT. (E) WEB NOT SHOWN FOR CLARITY.

4 JOIST SEAT REINFORCING DETAIL
3/4" = 1'-0"

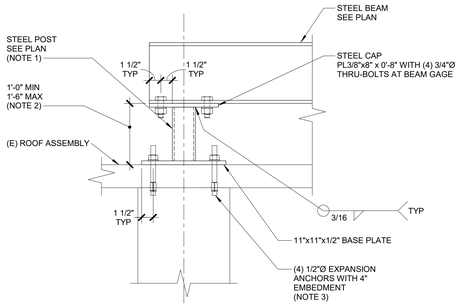


ECCENTRICALLY LOADED JOIST | CONCENTRICALLY LOADED JOIST | CONCENTRICALLY LOADED JOIST

NOTES:

1. FOR ATTACHMENTS TO JOISTS THAT ARE CONCENTRICALLY LOADED ON THE JOIST, A MAX OF 100 POUNDS MAY BE ATTACHED TO THE JOIST WITHIN A CHORD PANEL WITHOUT AN ADDITIONAL ANGLE. FOR ATTACHMENTS TO JOISTS THAT ARE ECCENTRICALLY LOADED, A MAX OF 25 POUNDS MAY BE ATTACHED TO THE JOIST WITHIN A CHORD PANEL WITHOUT AN ADDITIONAL ANGLE. MULTIPLE ATTACHMENTS ARE ALLOWED IN EACH CHORD PANEL AS LONG AS THE SUM OF THE LOADS DO NOT EXCEED THE MAX LOAD INDICATED.
2. FOR LOADS BETWEEN 100 POUNDS AND 200 POUNDS, ADDITIONAL ANGLES ARE REQUIRED AND JOIST MUST BE CONCENTRICALLY LOADED.
3. FOR LOADING CONDITIONS IN NOTES 1 AND 2 ABOVE, TOTAL SUM OF LOADS SHALL NOT EXCEED 200 LBS FOR AN 8 FOOT SEGMENT OF JOIST. FOR LOADS GREATER THAN 200 POUNDS AND NOT NOTED ON THE DRAWINGS, CONTACT ENGINEER PRIOR TO INSTALLATION.
4. NO LOADS SHALL BE SUPPORTED FROM JOIST BRIDGING.

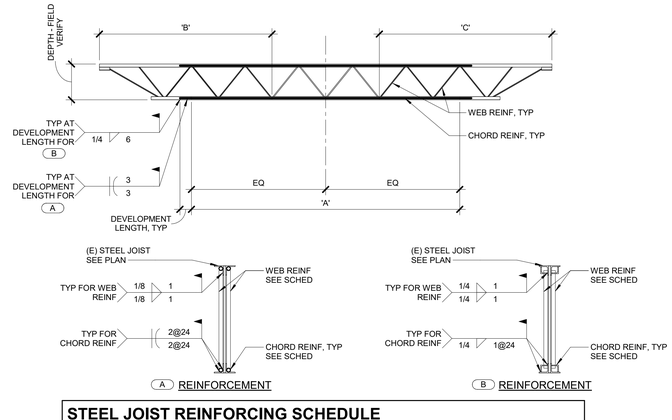
5 JOIST MODIFICATION DETAIL
1 1/2" = 1'-0"



NOTES:

1. COORDINATE HEIGHT OF POST TO BE COORDINATED WITH ARCHITECT/EXISTING CONDITIONS. NEW STEEL FRAMING TO BE ABOVE FINISHED ROOF AS SHOWN.
2. STEEL FOR RTU SUPPORT SHALL BE LEVEL.
3. DO NOT CUT (E) REINFORCEMENT FOR ANCHOR INSTALLATION. PATCH ANY ABANDONED HOLES WITH NON-SHRINK GROUT.

6 STEEL POST AT CONCRETE
1 1/2" = 1'-0"



A REINFORCEMENT | B REINFORCEMENT

STEEL JOIST REINFORCING SCHEDULE

MARK	RTU #	CHORD REINFORCING			WEB REINFORCING			REMARKS
		SIZE	'A'	DEVELOPMENT LENGTH	SIZE	'B'	'C'	
A	10EH	(2) 7/8"Ø RODS (GR36)	11'-0"	3"	(2)L2 1/2x2x1/4 (GR36)	13'-0"	13'-0"	SEE 4/S300
B	11EH,12EH, 13EH,14EH	(2) L2x2x1/4 (GR36)	38'-0"	6"	(2) L2 1/2x2 1/2x5/16 (GR36)	44'-0"	44'-0"	SEE 4/S300

NOTES:

1. REMOVE AND REINSTALL JOIST BRIDGING AS NECESSARY TO INSTALL REINF MEMBERS.
2. JOIST REINF IS DUE TO NEW ROOF EQUIPMENT OR SNOW DRIFT. PRIOR TO PLACING EQUIPMENT, JOIST REINF MUST BE INSTALLED.
3. JOIST SHALL BE SHORED.
4. SPLICE CHORD REINF SEGMENTS TOGETHER TO DEVELOP FULL CAPACITY OF MEMBER. SPLICE DETAIL BY STEEL FABRICATOR.

7 JOIST REINFORCING DETAIL
3/4" = 1'-0"

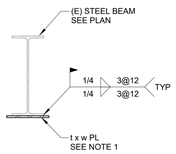


PLATE SCHEDULE		
MARK	t	w
A	1/2"	8"
B	1"	12"
C	1/2"	6"

NOTES:

1. PLATE TO EXTEND ALONG THE LENGTH OF (E) STEEL BEAM. SEE PLATE SCHEDULE FOR PLATE DIMENSIONS.
2. ANY PLATE SPLICING IS TO RECEIVE A FULL PENETRATION GROOVE WELD.

8 EXISTING BEAM MODIFICATION
3/4" = 1'-0"

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REFERENCE SCALE IN INCHES

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No.	Date	Revision / Issue

SHEET INFORMATION

Issue	100% CD
Date	01-28-2022
Job Number	21002885.04
Drawn	MATORT
Checked	LISPOG
Approved	TODBAR

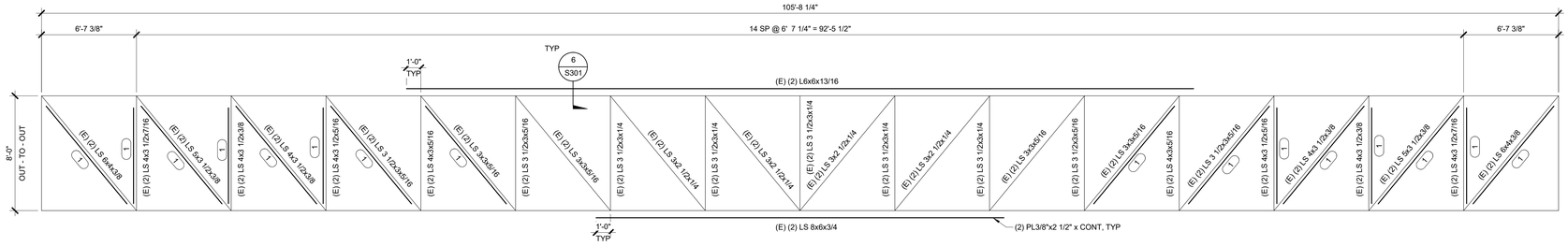
SHEET TITLE
DETAILS

SCALE

Scale: As indicated

SHEET NUMBER

S300

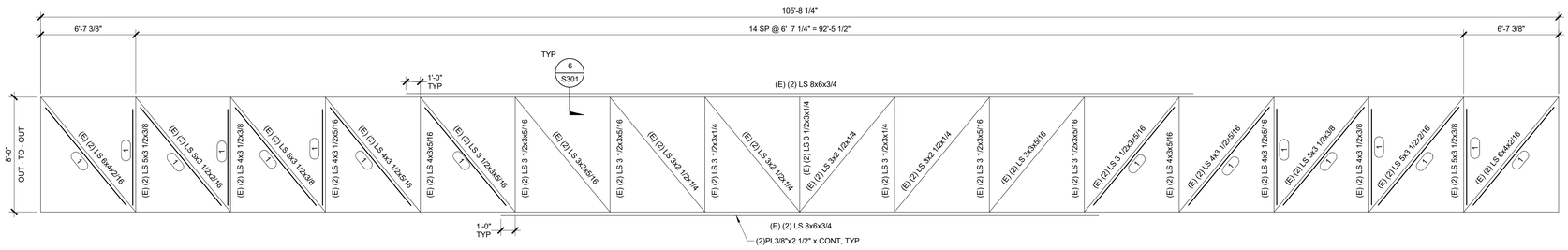


KEYNOTE: (#)

1. WEB MEMBER TO BE REINFORCED WITH (2) L2x2x1/4. PROVIDE 3" OF 3/16" FILLET WELD AT EACH FACE OF EXISTING TOP AND BOTTOM CHORDS. SEE 5/S301 FOR DETAILS.

1 TRUSS (T-1) REINFORCING DETAIL

1/4" = 1'-0"

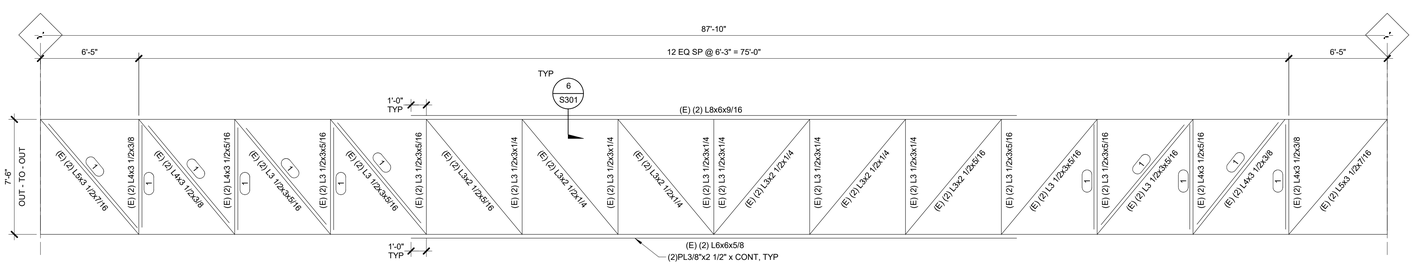


KEYNOTE: (#)

1. WEB MEMBER TO BE REINFORCED WITH (2) L2x2x1/4. PROVIDE 3" OF 3/16" FILLET WELD AT EACH OF EXISTING TOP AND BOTTOM CHORDS. SEE 5/S301 FOR DETAILS.

2 TRUSS (T-2) REINFORCING DETAIL

1/4" = 1'-0"

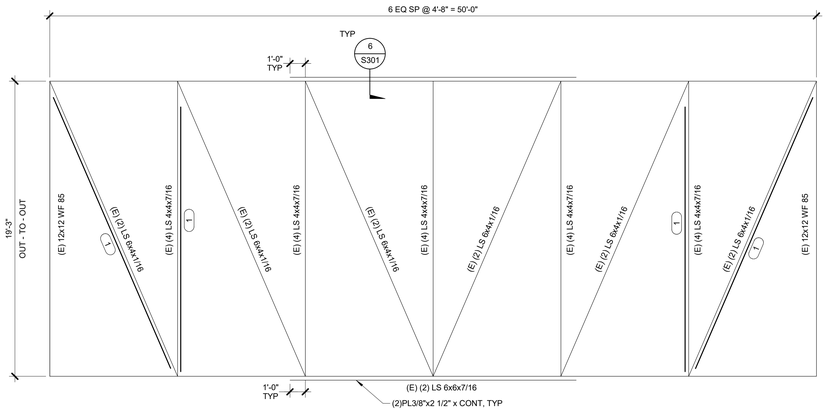


KEYNOTE: (#)

1. WEB MEMBER TO BE REINFORCED WITH (2) L2x2x1/4. PROVIDE 3" OF 3/16" FILLET WELD AT EACH OF EXISTING TOP AND BOTTOM CHORDS. SEE 5/S301 FOR DETAILS.

3 TRUSS (T-6) REINFORCING DETAIL

1/4" = 1'-0"

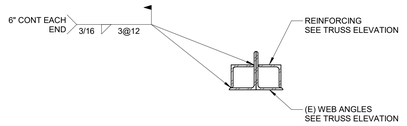


KEYNOTE: (#)

1. WEB MEMBER TO BE REINFORCED WITH (2) L2x2x1/4. PROVIDE 3" OF 3/16" FILLET WELD AT EACH OF EXISTING TOP AND BOTTOM CHORDS. SEE 5/S301 FOR DETAILS.

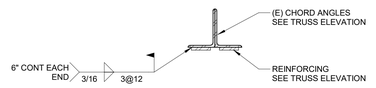
4 TRUSS (T-7) REINFORCING DETAIL

1/4" = 1'-0"



5 WEB REINFORCING DETAIL

1 1/2" = 1'-0"



6 CHORD REINFORCING DETAIL

1 1/2" = 1'-0"

IMEG
623 26TH AVENUE
QUAD CITIES, IL
61201
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ESSER HVAC IMPROVEMENTS - EAST HIGH SCHOOL

2929 Charles St, Rockford, IL 61108

Rockford Public Schools #205

PROFESSIONAL SEAL

CONSULTANT
(MAY BE USED FOR ANY OTHER REQUIREMENT IF THERE IS NO CONSULTANT)

KEY PLAN

AGENCY APPROVAL

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REFERENCE SCALE IN INCHES

0 1 2

REVISIONS

No.	Date	Revision / Issue

SHEET INFORMATION

Issue	100% CD
Date	01-28-2022
Job Number	21002885.04
Drawn	Author
Checked	Designer
Approved	Approver

SHEET TITLE

DETAILS

SCALE

Scale: As indicated

SHEET NUMBER

S301

ABBREVIATIONS

AC	AIR CONDITIONING	EA.	EACH	L.P.	LOW POINT	Q.T.	QUARRY TILE
AC/FL	ACCESS FLOOR	EL.	ELEVATION	LAM.	LAMINATE	QTY.	QUANTITY
ACP	ACOUSTICAL CEILING PANEL	ELEC.	ELECTRICAL)	LAV.	LAVATORY	RRAD.	RADIUS
AD	AREA DRAIN	ELEV.	ELEVATOR	LH	LEFT HAND	R.B.	RESILIENT BASE
ADJ.	ADJUSTABLE	EMER.	EMERGENCY	LT.	LIGHT	R.O.	ROUGH OPENING
AFF	ABOVE FINISHED FLOOR	ENCL.	ENCLOSED	LVR.	LOUVER	R.T.	RUBBER TILE
AL./ALUM.	ALUMINUM	ENG.	ENGINEER	M.O.	MASONRY OPENING	RD	ROOF DRAIN
ALT.	ALTERNATE		EQUAL	MACH.	MACHINE	REF.	REFERENCE
ANOD.	ANODIZED	ESC.	EQUIPMENT	MAX.	MAXIMUM	REINF.	REINFORCED
ANT.	ANTENNA	EWC	ESCALATOR	MDF	MEDIUM DENSITY	REM'D	REMOVED
APPD.	APPROVED	EX	ELECTRIC WATER COOLER		FIBERBOARD	REQ'D	REQUIRED
ARCH.	ARCHITECT	EXH.	EXISTING	MECH.	MECHANICAL	RES.	RESILIENT
ARCH'L	ARCHITECTURAL	EXIST.	EXHAUST	MED.	MEDIUM	REV.	REVISION OR REVISED
B.M.	BENCH MARK	EXP.	EXISTING	MEZZ.	MEZZANINE	RF.	ROOF
BETW.	BETWEEN	EXT.	EXPANSION OR EXPOSED	MFR.	MANUFACTURER	RFG.	ROOFING
BIT.	BITUMINOUS		EXTERIOR	MIN.	MINIMUM	RH	RIGHT HAND
BLDG.	BUILDING	FD	FLOOR DRAIN	MISC.	MISCELLANEOUS	RM.	ROOM
BLK.	BLOCK	FDVC	FIRE DEPARTMENT VALVE CABINET	MTD.	MOUNTED	S&BR	SEALANT AND BACKER ROD
BLKG.	BLOCKING	FE.	FIRE EXTINGUISHER	MTG.	MOUNTING		
BM.	BEAM	FEC	FIRE EXTINGUISHER CABINET	MTL.	METAL	SCWD	SOLID CORE WOOD
BOT.	BOTTOM	FEVC	FIRE EXTINGUISHER AND VALVE	MULL.	MULLION	S.S.	STAINLESS STEEL
BRG.	BEARING		CABINET	MWK.	MILLWORK	SHT.	SHEET
BSMT.	BASEMENT	FHC	FIRE HOSE CABINET	NIC	NOT IN CONTRACT	SIM.	SIMILAR
C.G.	CORNER GUARD	FIN.	FINISH(ED)	NO.	NUMBER	ST.	STAIN
C.T.	CERAMIC TILE	FLG.	FLASHING	NOM.	NOMINAL	STD.	STANDARD
CAB.	CABINET	FLR.	FLOOR	NRC	NOISE REDUCTION	STL.	STEEL
CFCI	CONTRACTOR FURNISHED/ CONTRACTOR INSTALLED	FRT	FIRE RETARDANT TREATED		COEFFICIENT	STO.	STORAGE
		FUT.	FUTURE	NTS	NOT TO SCALE	SUSP.	SUSPENDED
CFMF	COLD FORMED METAL FRAMING	FVC	FIRE VALVE CABINET	O.C.	ON CENTER	T.	TOP OF
		GA.	GAUGE	OA	OVERALL	T&B	TOP AND BOTTOM
CL	CENTER LINE	GALV.	GALVANIZED	OH	OVERHEAD	T&G	TONGUE AND GROOVE
CLG.	CEILING	GB	GRAB BAR	OFCI	OWNER FURNISHED/ CONTRACTOR INSTALLED	TEL.	TELEPHONE
CLO.	CLOSET	GFRC	GLASS FIBER REINFORCED CONCRETE			TEMP.	TEMPORARY
CLR.	CLEAR			OFOI	OWNER FURNISHED/ OWNER INSTALLED	TERR.	TERRAZZO
CMU	CONCRETE MASONRY UNIT	GFRP	GLASS FIBER REINFORCED PLASTER			THK.	THICK
COL	COLUMN			OFF.	OFFICE	TYP.	TYPICAL
CONC.	CONCRETE	GL.	GLASS, GLAZING	OPG.	OPENING	U.L.	UNDERWRITERS LABORATORY
CONN.	CONNECTION	GYP.BD./G	GYPSUM WALL BOARD	OPP.	OPPOSITE		
CONST.	CONSTRUCTION	H	HOLLOW CORE	ORN.	ORNAMENTAL	U.N.O.	UNLESS NOTED OTHERWISE
CORR.	CORRIDOR	H.C.	HOLLOW METAL	P.C.	PRECAST CONCRETE		
CPT./CP	CARPET	H.M.	HIGH POINT	P.LAM.	PLASTIC LAMINATE	V.B.	VINYL BASE
DBL.	DOUBLE	H.P.	HEAD	PERF.	PERFORATED	V.C.T.	VINYL COMPOSITE TILE
DET.	DETAIL	HD	HARDWARE	PH.	PHASE	VAP.BAR.	VAPOR BARRIER
DIA.	DIAMETER	HDWR.	HARDWOOD	PL.	PLATE	VERT.	VERTICAL
DIM.	DIMENSION	HDWD.	HORIZONTAL	PLAS.	PLASTIC	VEST.	VESTIBULE
DN	DOWN	HORIZ.	HEIGHT	PLBG.	PLUMBING	VIF	VERIFY IN FIELD
DR.	DOOR	HT.	HEATING, VENTILATION, AND AIR CONDITIONING	PLYWD.	PLYWOOD	VWC	VINYL WALL COVERING
DS	DOWNSPOUT	HVAC		PNL.	PANEL	W/	WITH
DWG.	DRAWING		INCLUDE (ED) (ING)	PKG.	PARKING	W/O	WITHOUT
		INCL.	INFORMATION	PPT.	PRESERVATIVE PRESSURE TREATED	WD.	WOOD
		INFO.	INSULATION			WP	WATERPROOFING
		INSUL.	INTERIOR	PR.	PAIR		
		INT.	JANITOR'S CLOSET	PROT.	PROTECTION		
		J.C.	JAMB	PT.	PAINT		
		JB.	JOINT	PTD.	PAINTED		
		JT.		PTN.	PARTITION		
				PVMT.	PAVEMENT		

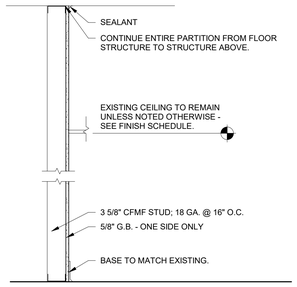
SYMBOL LEGEND

ITEM — SYMBOL

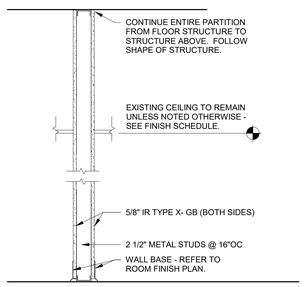
- DRAWING TITLE — 0 — TITLE / SCALE
- ROOM NAME AND NUMBER — ROOM NAME; 101 — ROOM NUMBER; 000 SF — ROOM SF
- DOOR NUMBER — 101
- WALL TYPE — 00
- WINDOW NUMBER / CURTAIN PANEL — 00 (OR) 00
- CEILING ELEVATION — 00'-00"
- KEYNOTE (Sheet Note) — 0 / 00
- SPOT ELEVATION — 0'-0"
- EQUIPMENT NUMBER — 00 — Department
- AREA NAME — Name; 000 SF — AREA SF
- NORTH ARROW — N.
- REVISION — 1
- BUILDING SECTION — 1 / A101 SIM

- WALL SECTION — 1 / A101 SIM
- DETAIL — 1 / A101 SIM
- DETAIL — 1 / A101 SIM
- ELEVATION — Name Elevation
- EXISTING COLUMN LINE — 00
- COLUMN LINE — 00
- FLOOR FINISH — T-1
- BASE FINISH — B-1
- WALL FINISH — P-1
- WOOD STAIN — ST-1
- WALL PAINT FINISH — PT-1

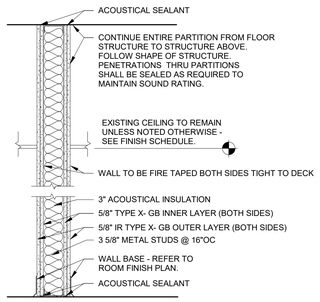
WALL TYPE



A1 PLAN INDICATION — NON-BEARING WALL WITHOUT ACOUSTICAL INSULATION



A2 PLAN INDICATION



A3 PLAN INDICATION — 1 HOUR RATED PARTITION UL DESIGN NO U465

GENERAL DEMOLITION NOTES

1. PERFORM DEMOLITION WORK AS NECESSARY TO ACCOMPLISH THE WORK INCLUDING THE REMOVAL AND PROPER DISPOSAL OF ITEMS WITH ARE EXPOSED AND NOT TO REMAIN IN USE, INCLUDING BUT NOT NECESSARILY LIMITED TO ELECTRICAL ITEMS, ELECTRICAL DEVICES, MECHANICAL ITEMS, PLUMBING ITEMS, ETC.
2. DRAWINGS INDICATE THE GENERAL INTENT OF THE DEMOLITION WORK AND ARE FOR REFERENCE PURPOSES ONLY. THEY ARE NOT INTENDED TO BE THE SOLE SOURCE OF EXISTING CONDITIONS TO BE DEMOLISHED.
3. EXACT EXTENT OF DEMOLITION AS SHOWN ON DRAWINGS AND TO BE PERFORMED SHALL BE VERIFIED AT THE SITE. DETERMINE THE NATURE AND EXTENT OF DEMOLITION THAT WILL BE NECESSARY BY COMPARING THE DRAWINGS WITH EXISTING SITE CONDITIONS. OPERATIONS SHALL BE DONE IN A CAREFUL AND ORDERLY MANNER TO AVOID HAZARDS TO PERSONS AND PROPERTY, AND INTERFERENCE WITH THE USE OF ADJACENT AREAS, AND INTERRUPTION OF FREE PASSAGE TO AND FROM SUCH AREAS.
4. CONTRACTOR TO PERFORM REQUIRED DEMOLITION AND TO LAWFULLY AND PROPERLY DISPOSE OF DEMOLISHED MATERIAL, OTHER OBSTACLES, DEBRIS, AND MATERIALS INCIDENTAL TO THE WORK FROM THE SITE.
5. CONTRACTOR TO TAKE SPECIAL PRECAUTIONS TO ENSURE EXISTING CONSTRUCTION TO REMAIN IS NOT DAMAGED DURING DEMOLITION. IF ANY ITEM INDICATED TO BE REMOVED, STORED AND/OR REINSTALLED IS DAMAGED DURING THE DEMOLITIONS, IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO REPAIR OR REPLACE THE ITEM TO ITS PRE-DEMOLITION CONDITION. IF ANY ITEM SCHEDULED FOR DEMOLITION WAS DAMAGED PRIOR TO DEMOLITION, THE CONTRACTOR SHALL NOTIFY THE OWNER BEFORE PERFORMING THE DEMOLITION WORK.
6. WHETHER OR NOT SPECIFICALLY INDICATED, THE CONTRACTOR SHALL RELOCATE EXISTING MECHANICAL, ELECTRICAL AND PLUMBING DEVICES AS REQUIRED INCLUDING BUT NOT LIMITED TO REROUTING CONDUITS, WIRING, PIPING, ETC. TO ACCOMMODATE THE WORK. PROVIDE NEW DEVICES INCLUDING BUT NOT LIMITED TO CONDUITS, WIRING, PIPING, ETC AS REQUIRED TO MAINTAIN CONTINUITY OF EXISTING SYSTEMS.

GENERAL NOTES

1. EACH BIDDER SHALL VISIT THE SITE OF PROPOSED WORK AND FULLY ACQUAINT THEMSELVES WITH CONDITIONS RELATING TO CONSTRUCTION AND LABOR SO THAT THEY MAY FULLY UNDERSTAND THE FACILITIES, DIFFICULTIES, AND RESTRICTIONS AFFECTING THE COMPLETION OF WORK INCLUDED UNDER THE CONTRACT.
2. FIELD VERIFY AND COORDINATE ITEMS, DIMENSIONS, CONDITIONS, AND QUANTITIES, ETC. NOTIFY ARCHITECT OF ANY APPARENT DISCREPANCIES.
3. MAINTAIN REQUIRED EXITS FROM THE EXISTING BUILDING AND SITE ACCESS THROUGH SUBSTANTIAL COMPLETION.
4. ITEMS NOTED AS EXISTING ARE TO REMAIN, UNLESS OTHERWISE NOTED.
5. VERIFY WITH OWNER ITEMS TO BE SALVAGED AND RETURNED TO OWNER, INCLUDING BUT NOT NECESSARILY LIMITED TO MECHANICAL, ELECTRICAL, PLUMBING, ETC. ITEMS TO BE SALVAGED SHALL BE CAREFULLY REMOVED AS TO ALLOW FOR OWNER'S REUSE.
6. EXISTING LOOSE ITEMS INCLUDING FURNITURE , EQUIPMENT, AND SUPPLIES SHALL BE REMOVED BY OWNER AS NECESSARY. COORDINATE MOVING SCHEDULE WITH OWNER FOR LOOSE ITEMS TO BE REMOVED BY OWNER PRIOR TO START OF THE WORK.
7. REMOVE AND REINSTALL EXISTING CEILINGS, MECHANICAL, AND ELECTRICAL EQUIPMENT, DEVICES, LIGHTING, EXIT SIGNS, FIRE ALARM DEVICES, CONDUIT, WIRING, ETC. AS REQUIRED TO ACCOMPLISH REMOVAL AND INSTALLATION OF NEW WORK, UNLESS OTHERWISE NOTED. VERIFY THE OPERATING CONDITION OF EQUIPMENT PRIOR TO THE START OF THE WORK AND REPORT CONDITIONS TO THE ARCHITECT. EXISTING EQUIPMENT AFFECTED BY THE WORK WHICH IS NOT IN PROPER OPERATING CONDITION AFTER WORK IS COMPLETED SHALL BE REPAIRED BY THE CONTRACTOR AT THEIR EXPENSE.
8. AT LOCATIONS WHERE NEW ELECTRICAL CONDUITS, MECHANICAL AND PLUMBING PIPING, ETC. PENETRATE THROUGH NEW OR EXISTING WALLS, INSTALL UL RATED THROUGH-PENETRATION FIRE STOPPING SYSTEM AROUND CONDUITS AND PIPING, ETC. TO PROVIDE A COMPLETE FIRE RATED SEPARATION AS REQUIRED.
9. WHERE NEW PENETRATIONS ARE MADE IN EXISTING WALLS AND FLOORS AND WHERE DEMOLITION HAS OCCURRED, CONTRACTOR SHALL RECONSTRUCT WALL OR FLOOR TIGHT AROUND PENETRATION WITH MATERIALS TO MATCH EXISTING WALL OR FLOOR CONSTRUCTION.
10. PATCH AND REPAIR EXISTING CONSTRUCTION, EXISTING SURFACES, AND NEWLY EXPOSED CONSTRUCTION AFFECTED BY THE WORK WITH MATERIALS AND FINISHES CONSISTENT WITH EXISTING TO MATCH ADJACENT SURFACES AND FINISHES, WHETHER SHOWN OR NOT ON THE DRAWINGS, TYP. - UNLESS NOTED OTHERWISE. PROVIDE NECESSARY AND REQUIRED PREPARATORY WORK TO EXISTING CONSTRUCTION AFFECTED BY THE WORK TO RECEIVE NEW AND PROPER FINISHES.
11. RESTORE ITEMS/DAMAGED AREAS AT STAGING AREAS, ETC. TO ORIGINAL FULLY FUNCTIONAL CONDITION.
12. CONTRACTOR SHALL BE RESPONSIBLE FOR EXTENDING AND ADJUSTING EXISTING ITEMS WHETHER SHOWN OR NOT, INCLUDING ELECTRICAL, WIRING, CONDUITS, MECHANICAL, PLUMBING, FLOOR DRAIN COVERS, ETC.
13. PROPERLY PROTECT EXISTING BUILDING, CONCRETE WALKS, CURBS, PAVING, GRASS, LANDSCAPING, ETC. FROM DAMAGE DURING CONSTRUCTION. REPLACE ANY DISTURBED AND DAMAGED AREAS WITH NEW LIKE MATERIALS, SOD, LANDSCAPING, ETC, MATCHING EXISTING.
14. EXISTING ENTRANCES AND DRIVES MUST REMAIN OPEN AND PASSABLE.
15. MAINTAIN REQUIRED EXITS FROM THE EXISTING BUILDING THROUGH SUBSTANTIAL COMPLETION.
16. COORDINATE STAGING AREA/LOCATIONS WITH OWNER.
17. CONTRACTOR TO AVOID EXISTING ROOF AREAS WHERE NO WORK IS REQUIRED. DO NOT STAGE MATERIALS ON EXISTING ROOFING AREAS. DAMAGE TO EXISTING ROOF AREAS CAUSED BY CONSTRUCTION SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO REPAIR OR REPLACE AND PROVIDE A WATERTIGHT CONDITION THAT MATCHES ADJACENT ROOF SYSTEM. MAINTAIN EXITING WARRANTIES.
18. PATCH, REPAIR, AND PAINT EXISTING WALLS AND CEILINGS AS REQUIRED IN AREAS WHERE MECHANICAL SYSTEMS AND SUPPORTS, PLUMBING SYSTEMS AND SUPPORTS, AND EQUIPMENT AND SUPPORTS WERE REMOVED. PATCH, REPAIR, AND PAINT WALLS AND CEILINGS TO MATCH ADJACENT SURFACE.
19. GC TO ENSURE THAT ANY FIRE RATED WALL SHALL MAINTAIN ITS FIRE RATING

DOOR, FRAME & HARDWARE NOTES

1. SEE SPECIFICATION SECTION 08 7100-DOOR HARDWARE FOR SPECIFIC PRODUCTS AND MODEL NUMBERS.
2. ALL HARDWARE SHALL CONFORM TO APPLICABLE PROVISIONS OF THE AMERICANS WITH DISABILITIES ACT AND THE STATE OF ILLINOIS.
3. PROVIDE SEALANT AT JUNCTION OF ALL FRAMES AND PARTITIONS.

DOOR HARDWARE SCHEDULE

1. HINGES - BUTT
2. LOCKSETS:
   A. STOREROOM LOCK W/ KNURLED HANDLE
3. CLOSER W/ HOLD OPEN (W/ COORDINATOR ON DOUBLE DOORS)
4. DOOR STOP - WALL OR FLOOR AS REQUIRED
5. ROUND 10" O.C. PULL; 1" DIAMETER AND PUSH PLATE
6. KICK PLATE

NOTE: G.C. TO VERIFY DOOR HARDWARE COLOR AND FINISH WITH OWNER. COLOR AND FINISH OF ALL DOOR HARDWARE TO MATCH EXISTING.

ACCESSIBILITY COMPLIANCE STATMENT

PROJECT INFORMATION

PROJECT: EAST HIGH SCHOOL

PROJECT ADDRESS: 2929 CHARLES STREET

ROCKFORD (CITY) ILLINOIS (STATE) 61108 (ZIP CODE)

STATEMENT OF COMPLIANCE

I HAVE PREPARED, OR CAUSED TO BE PREPARED UNDER MY DIRECT SUPERVISION, THE ATTACHED PLANS AND SPECIFICATIONS AND STATE THAT, TO THE BEST OF MY KNOWLEDGE AND BELIEF AND TO THE EXTENT OF MY CONTRACTUAL OBLIGATION, THEY ARE IN COMPLIANCE WITH THE ENVIRONMENTAL BARRIERS ACT (410 ILCS 25) AND THE ILLINOIS ACCESSIBILITY CODE (71 III. ADM. CODE 400).

STATE OF ILLINOIS — DANIEL G. SAAVEDRA 001-015740 — LICENSED ARCHITECT

SIGNED: _____ ARCHITECT / ENGINEER

ILLINOIS REGISTRATION NO.: 001-015740

DATE: 01/28/2022

LINETYPE LEGEND

- PROPERTY LINE
- DEMOLITION
- EXISTING
- NEW
- FIRE BARRIER 1 HOUR — 1 1 1 1 1 1
- FIRE BARRIER 2 HOUR — 2 2 2 2 2 2

ARCHITECTURAL SEAL

STATE OF ILLINOIS — DANIEL G. SAAVEDRA 001-015740 — LICENSED ARCHITECT

LICENSE: 001-015740
DATE: 01/28/2022
EXPIRATION DATE: 11.30.2022

THIS SEAL APPLIES TO ALL G,D, AND A SHEETS.

ENERGY CODE COMPLIANCE STATEMENT

I hereby certify that I am a Licensed Architect in the State of Illinois and I also certify that to the best of my knowledge and belief that the plans for **EAST HIGH SCHOOL** fully comply with the following sections of the 2018 International Energy Conservation Code and State of Illinois amendments.

IECC - Commercial Provisions
Chapter 1 (CE) - Scope and Administration
Chapter 2 (CE) - Definitions
Chapter 3 (CE) - General Requirements
Chapter 4 (CE) - Commercial Energy Efficiency
Chapter 5 (CE) - Existing Buildings
Chapter 6 (CE) - Referenced Standards
State of Illinois Amendments to C101.1, C101.1.2, C101.1.3, C101.5, C102.1.1, C109.1, C109.3, C402.2.2, C402.5.1, C402.5.1.1 and C503.1

In accordance with Illinois Amendment to C101.5, US DOE COMcheck Energy Code Compliance Certificates have been submitted to the AHJ (Authority Having Jurisdiction) along with all associated supporting documentation. In accordance with IECC Section 103.2, Insulation materials and R-values, Fenestration U-factors and SHGC's, area weighted U-factors and SHGC calculations, mechanical system design criteria, mechanical system and service hot water system equipment types, sizes and efficiencies, economizer description, equipment and system controls, fan motor horsepower and controls, duct sealing, duct and pipe insulation and location, lighting and fixture schedules with wattage and control system, air sealing details and system commissioning requirements area detailed, described and specified in the construction documents (Drawings and Project Manual) and the COMcheck Compliance Certificate including attached supporting documentation and calculations.

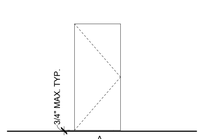
STATE OF ILLINOIS — DANIEL G. SAAVEDRA 001-015740 — LICENSED ARCHITECT

SIGNATURE — 01/28/2022 DATE
001-015740 LICENSE No. — 11/30/2022 EXPIRATION DATE

DOOR SCHEDULE

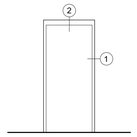
DOOR NO.	DOOR: OPENING SIZE WIDTH	HEIGHT	THICK.	STYLE	MATERIAL	FINISH	GLASS	FRAME: STYLE	MATERIAL	FINISH	FRAME DETAIL (PROFILE): HEAD	JAMB	SILL	HARDWARE SET	FIRE RATING	REMARKS
100	3' - 0"	7' - 0"	1-3/4"	A	H.M.	PT.	-	A	H.M.	PT.	1	1	-		1 HOUR	
101	3' - 6"	7' - 0"	1-3/4"	A	H.M.	PT.	-	A	H.M.	PT.	2	1	-		1 HOUR	
102	3' - 6"	7' - 0"	1-3/4"	A	H.M.	PT.	-	A	H.M.	PT.	2	1	-		1 HOUR	

DOOR TYPE



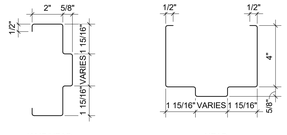
A
SINGLE DOOR

DOOR FRAME TYPES



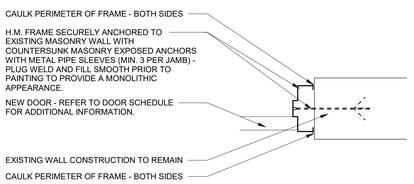
A
MASONRY FRAME

HEAD, SILL, AND JAMB DETAILS



JAMB/HEAD
1

HEAD
2



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ROCKFORD PUBLIC SCHOOLS

ESSER HVAC Improvements - East High School

2929 Charles Street
Rockford, Illinois 61108

Rockford Public Schools #205

CONSULTANT

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504 North Church Street • Rockford, Illinois 61103
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KEY PLAN

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REFERENCE SCALE IN INCHES
0 1 2

REVISIONS

No.	Date	Revision / Issue

SHEET INFORMATION

Issue	BID DOCUMENTS
Date	01-28-2022
Job Number	21011.40
Drawn	Author
Checked	Checker
Approved	Approver

SHEET TITLE
GENERAL INFORMATION

SCALE
Scale: As indicated

SHEET NUMBER
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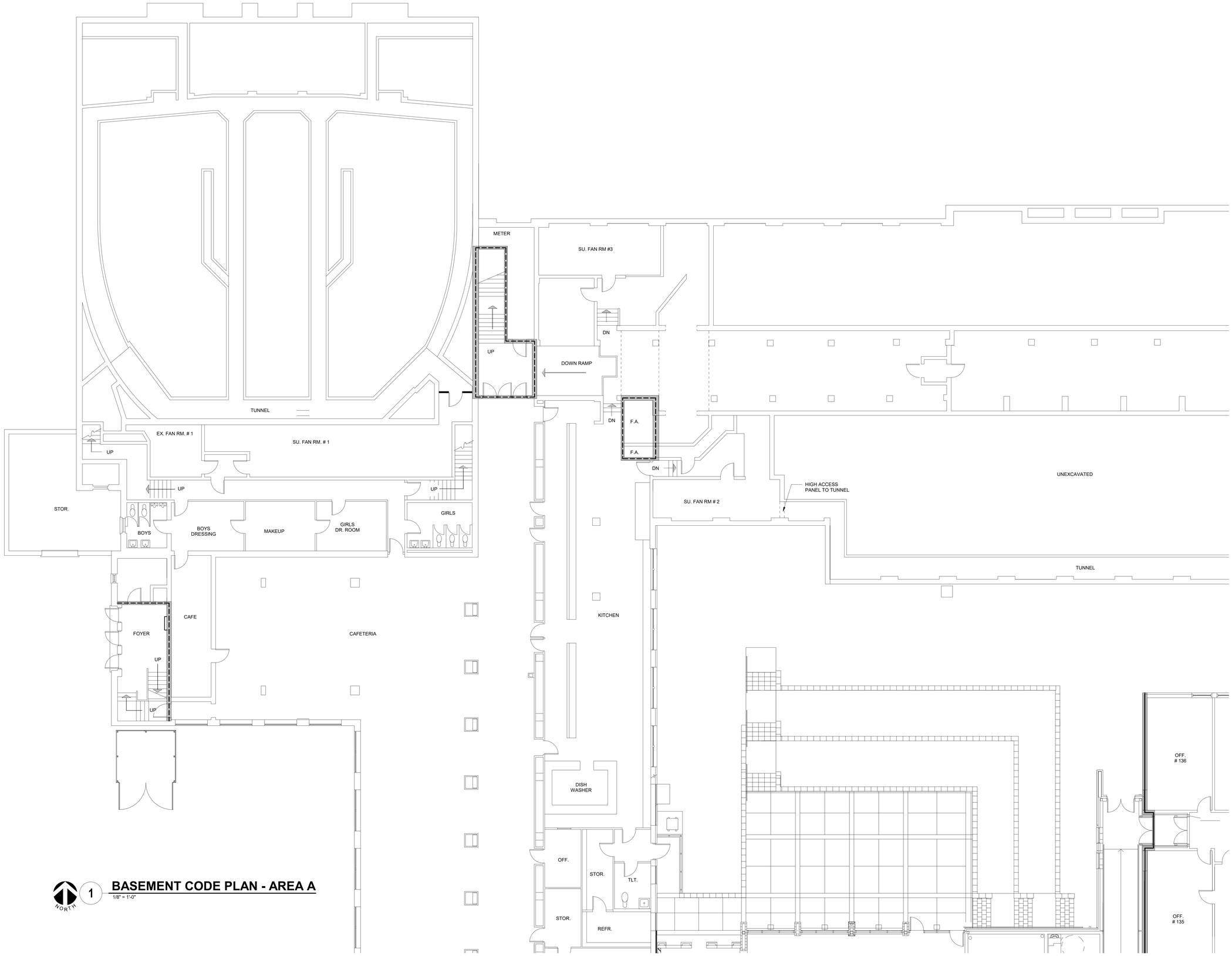
1/28/2022 5:52:18 PM ESSER HVAC Improvements - East High School 21011.40



1 **BASEMENT CODE PLAN - AREA A**

1/8" = 1'-0"

NORTH

FIRE WALL LEGEND	
	1 HOUR FIRE WALL RATING
	2 HOUR FIRE WALL RATING

21011.40 1/28/2022 5:52:21 PM ESSER HVAC Improvements - East High School

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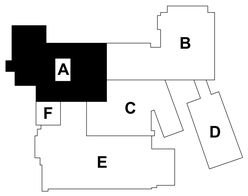

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Issue	**BID DOCUMENTS**
Date	**01-28-2022**
Job Number	**21011.40**
Drawn	**Author**
Checked	**Checker**
Approved	**Approver**

SHEET TITLE

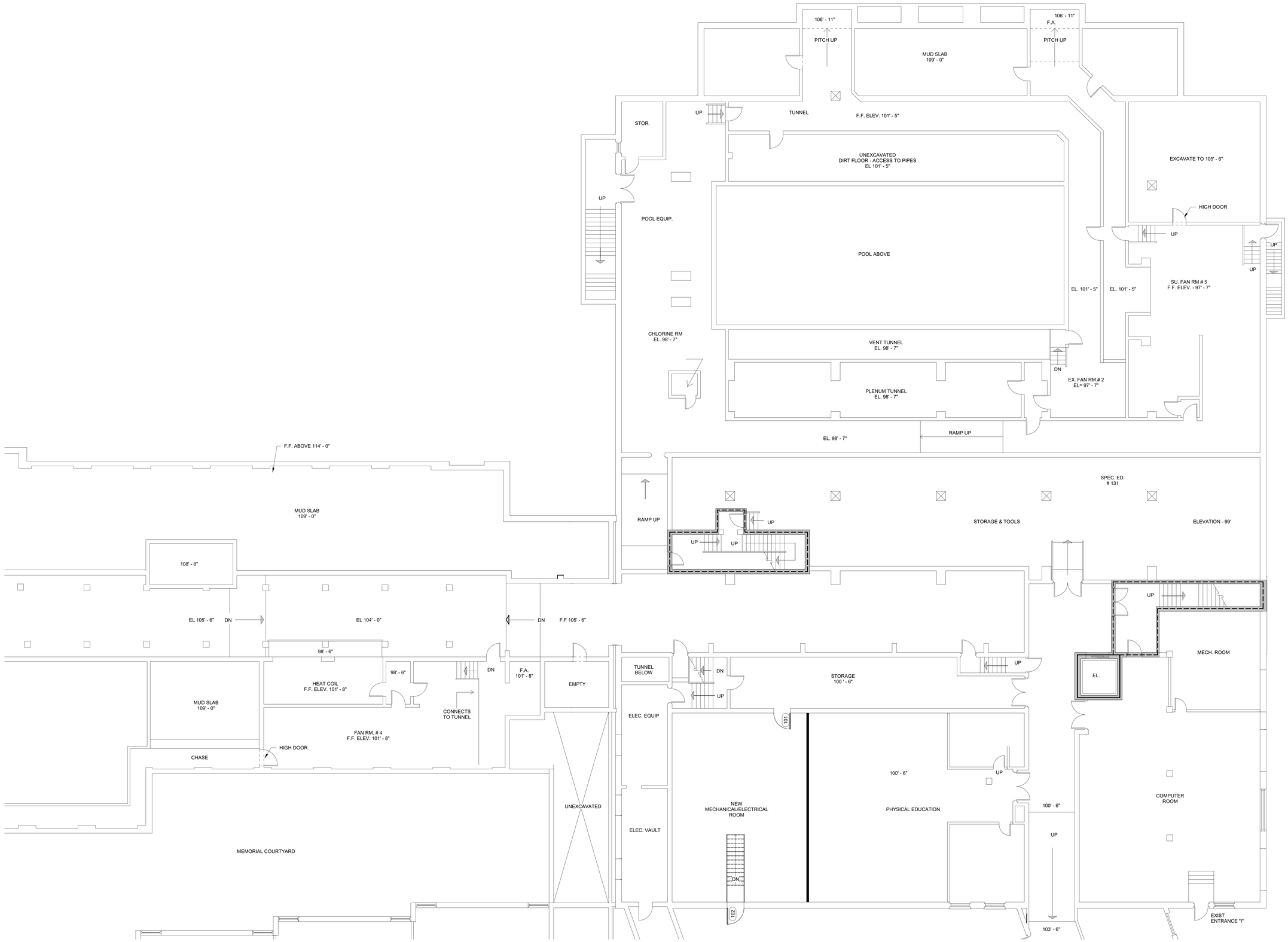
BASEMENT FLOOR CODE PLAN - AREA A

SCALE

Scale: **As indicated**

SHEET NUMBER

G1.00A



1 **BASEMENT CODE PLAN - AREA B**

1/8" = 1'-0"

NORTH

FIRE WALL LEGEND	
	1 HOUR FIRE WALL RATING
	2 HOUR FIRE WALL RATING

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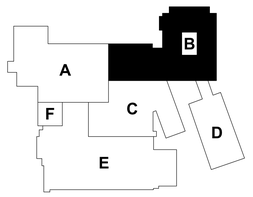

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Approved	**Approver**

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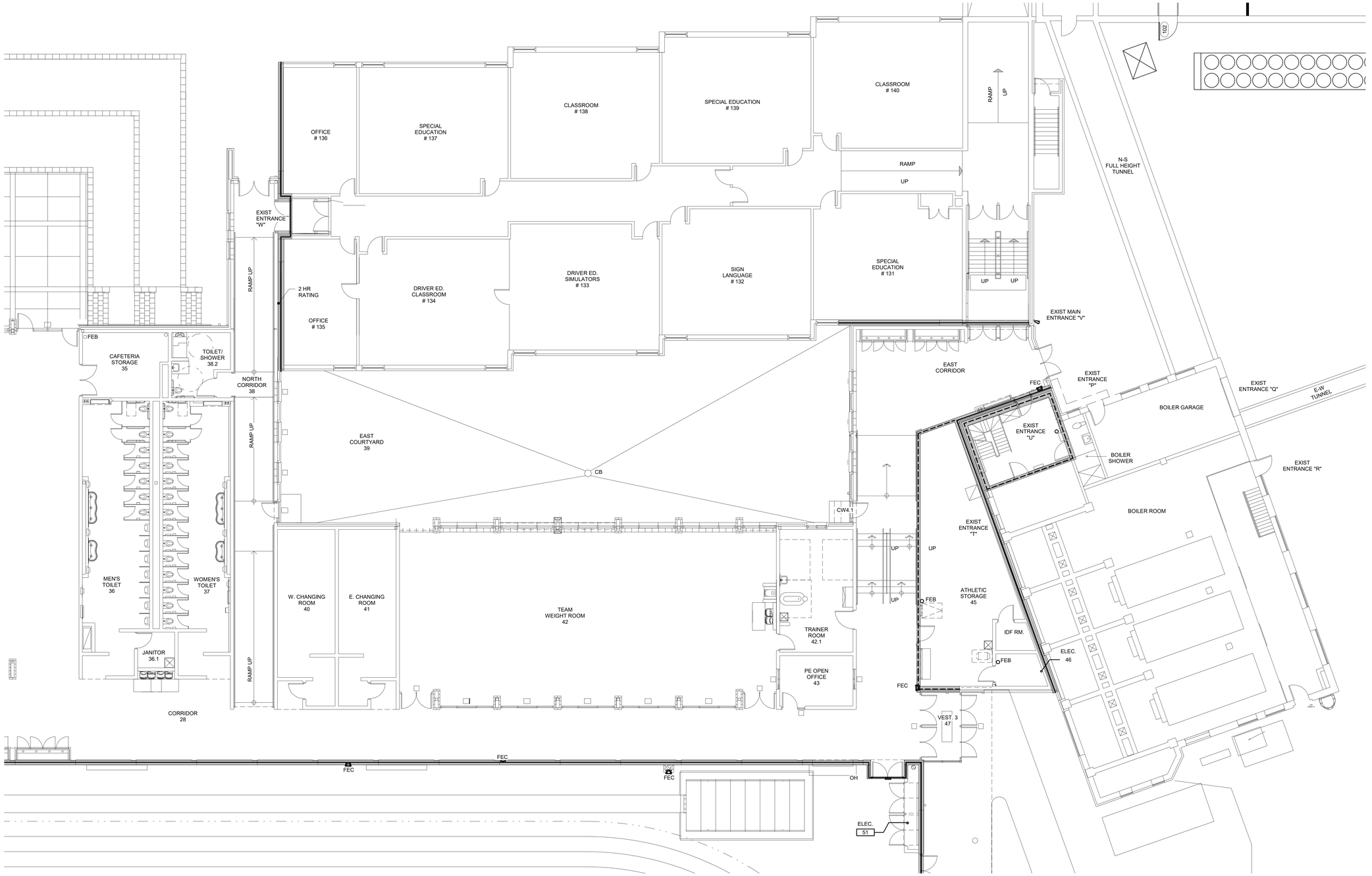
BASEMENT FLOOR CODE PLAN - AREA B

SCALE

Scale: **As indicated**

SHEET NUMBER

G1.00B



BASEMENT CODE PLAN - AREA C

1/8" = 1'-0"

NORTH

FIRE WALL LEGEND

- 1 HOUR FIRE WALL RATING
- 2 HOUR FIRE WALL RATING

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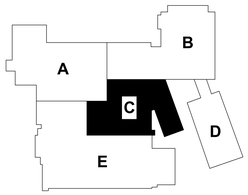

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BASEMENT FLOOR CODE PLAN - AREA C

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G1.00C

21011.40 1/28/2022 5:52:28 PM ESSER HVAC Improvements - East High School

NORTH 1

BASEMENT CODE PLAN - AREA D

1/8" = 1'-0"

FIRE WALL LEGEND	
	1 HOUR FIRE WALL RATING
	2 HOUR FIRE WALL RATING

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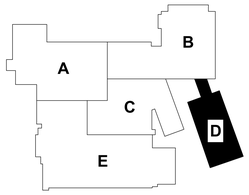

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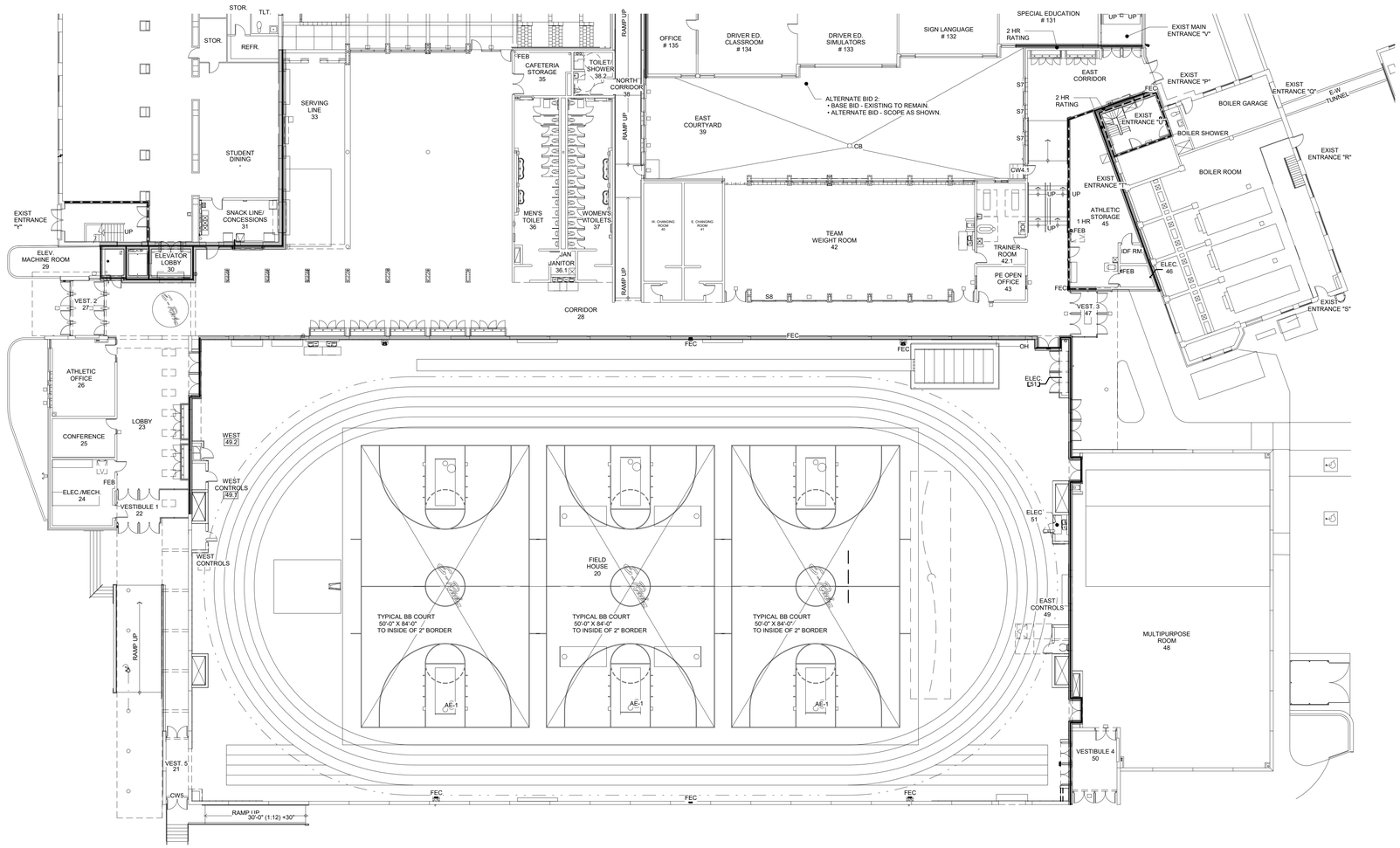
BASEMENT FLOOR CODE PLAN - AREA D

SCALE

Scale: **As indicated**

SHEET NUMBER

G1.00D



NORTH

1 **BASEMENT CODE PLAN - AREA E**

1/16" = 1'-0"

FIRE WALL LEGEND	
	1 HOUR FIRE WALL RATING
	2 HOUR FIRE WALL RATING

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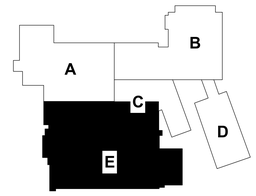

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BASEMENT FLOOR CODE PLAN - AREA E

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G1.00E

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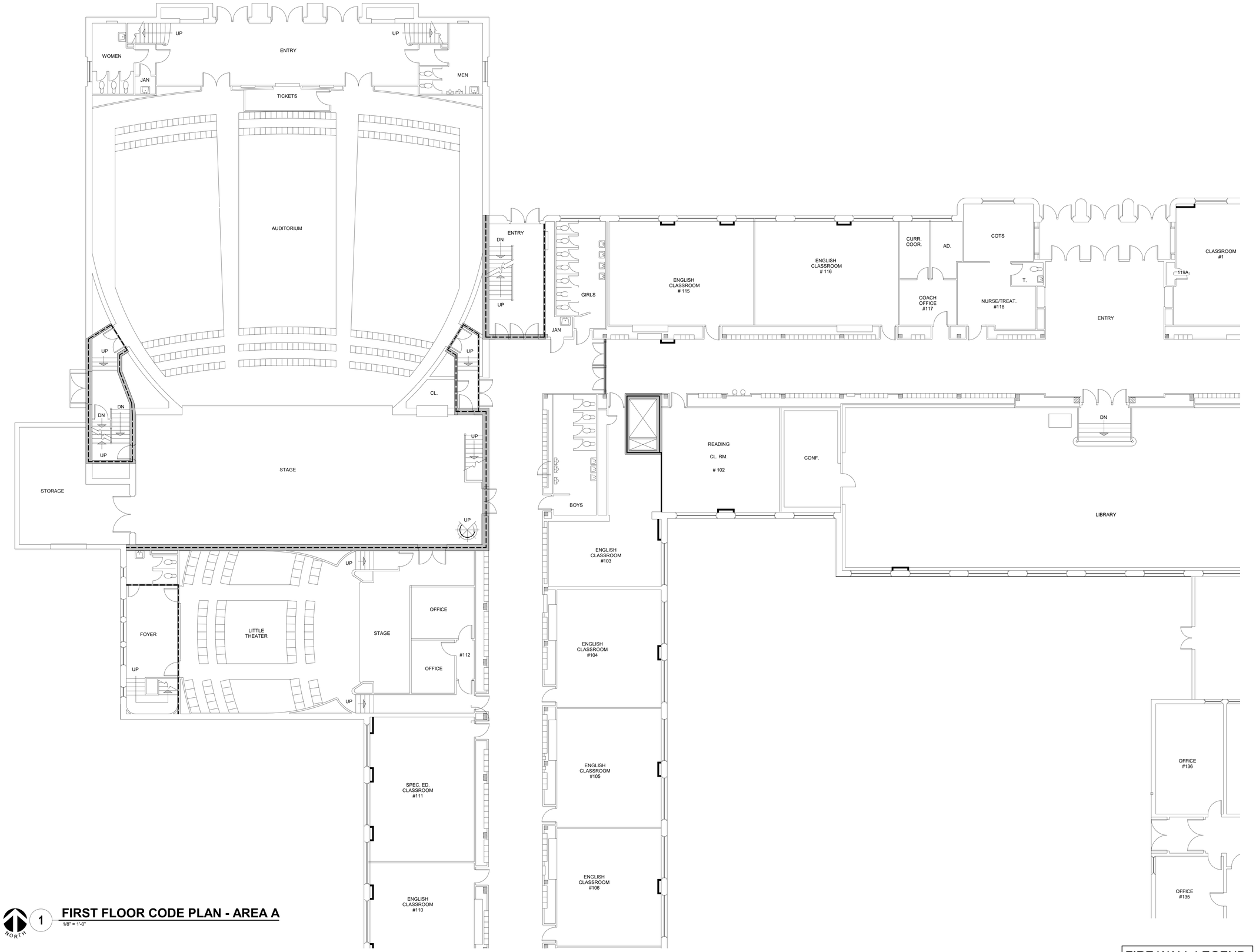

1 NORTH

FIRST FLOOR CODE PLAN - AREA A

1/8" = 1'-0"

FIRE WALL LEGEND

- 1 HOUR FIRE WALL RATING
- 2 HOUR FIRE WALL RATING

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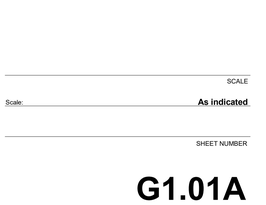

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FIRST FLOOR CODE PLAN - AREA A

SCALE

Scale: **As indicated**

SHEET NUMBER

G1.01A

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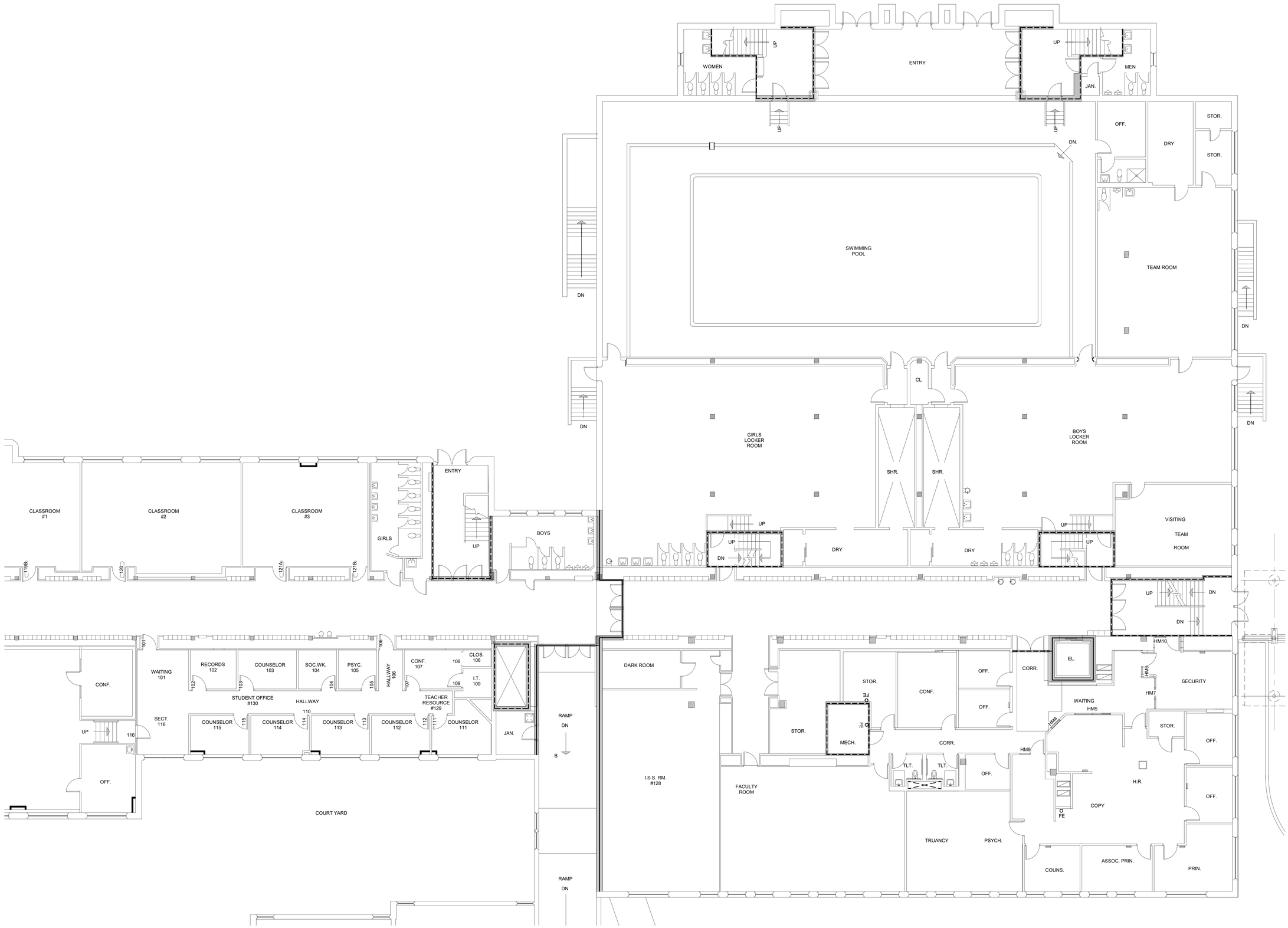

1 NORTH

FIRST FLOOR CODE PLAN - AREA B

1/8" = 1'-0"

FIRE WALL LEGEND	
	1 HOUR FIRE WALL RATING
	2 HOUR FIRE WALL RATING

1/28/2022 5:52:45 PM ESSER HVAC Improvements - East High School

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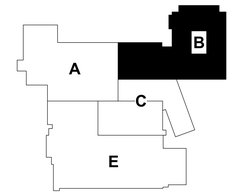

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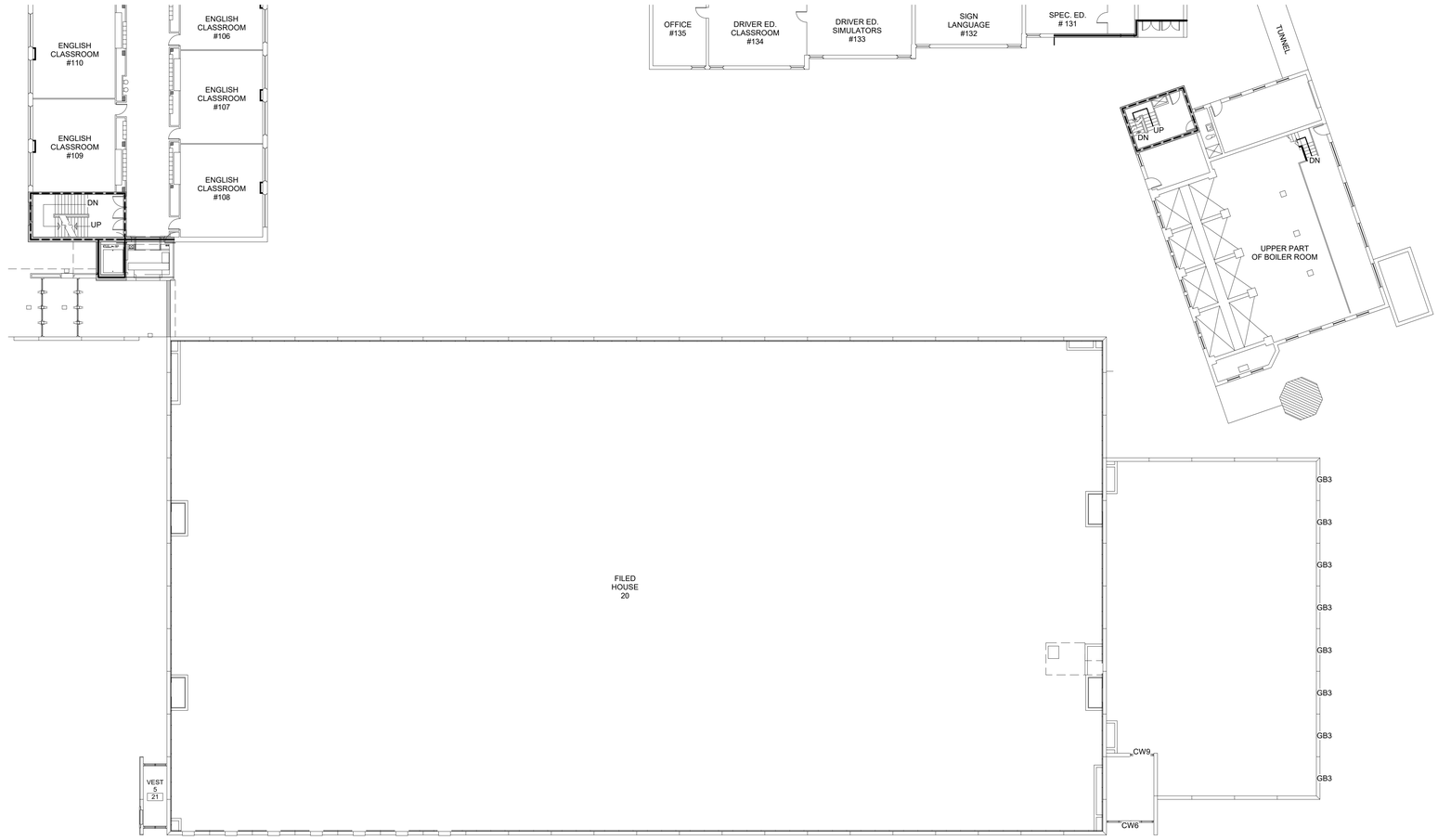
FIRST FLOOR CODE PLAN - AREA B

SCALE

Scale: **As indicated**

SHEET NUMBER

G1.01B



FIRST FLOOR CODE PLAN - AREA E

1/16" = 1'-0"

FIRE WALL LEGEND	
	1 HOUR FIRE WALL RATING
	2 HOUR FIRE WALL RATING

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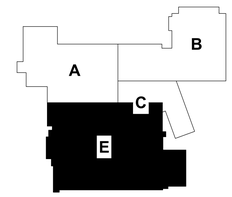

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FIRST FLOOR CODE PLAN - AREA E

SCALE

Scale: **As indicated**

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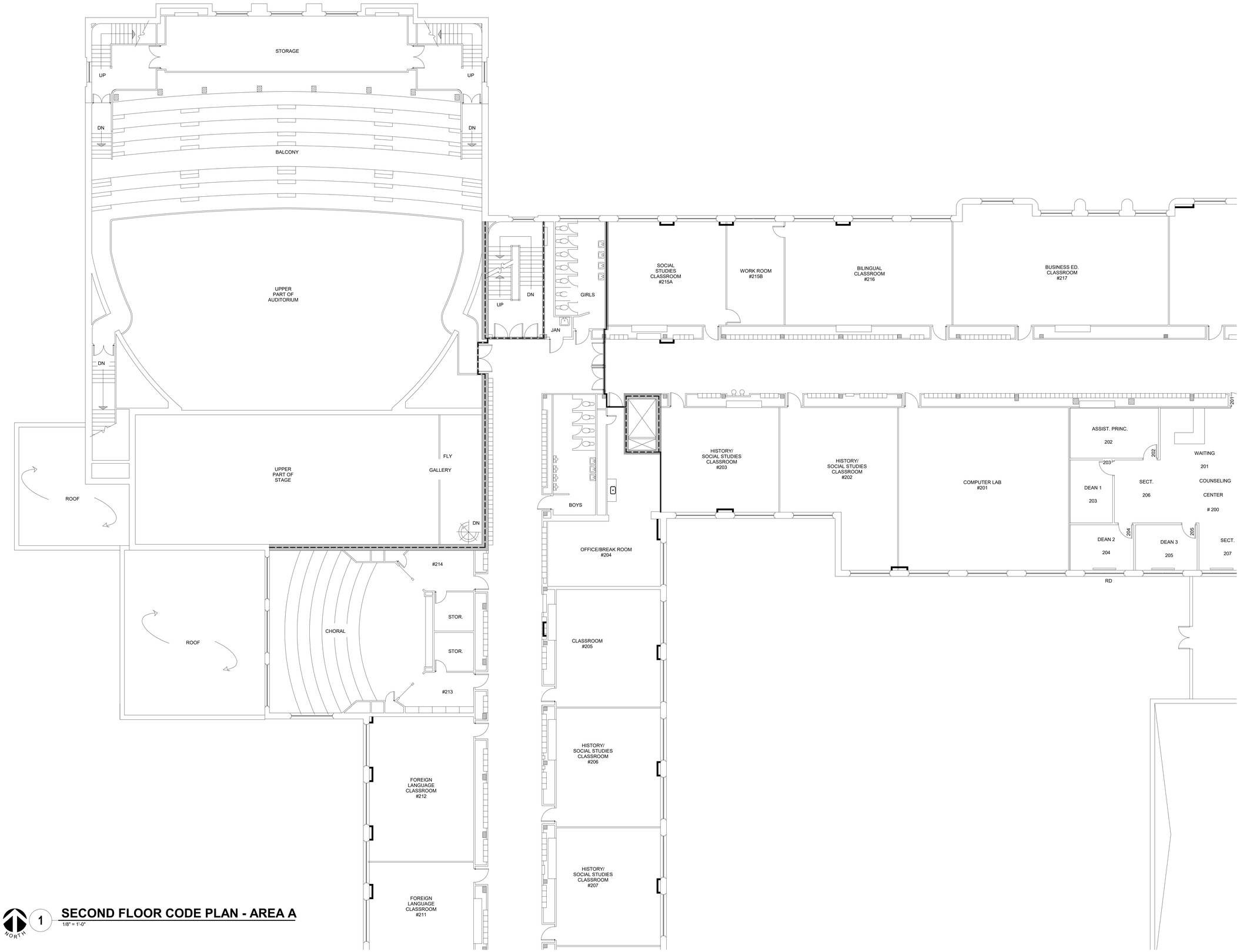
G1.01E

21011.40 1/28/2022 5:52:48 PM ESSER HVAC Improvements - East High School



1 **SECOND FLOOR CODE PLAN - AREA A**

1/8" = 1'-0"

NORTH

FIRE WALL LEGEND

- 1 HOUR FIRE WALL RATING
- 2 HOUR FIRE WALL RATING

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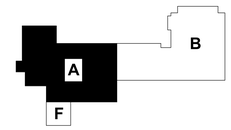

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SECOND FLOOR CODE PLAN - AREA A

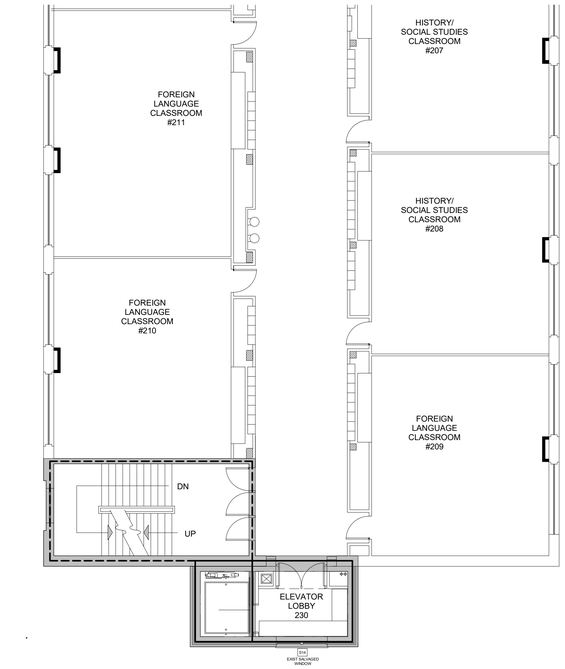
SCALE

Scale: **As indicated**

SHEET NUMBER

G1.02A

21011.40 1/28/2022 5:52:51 PM ESSER HVAC Improvements - East High School



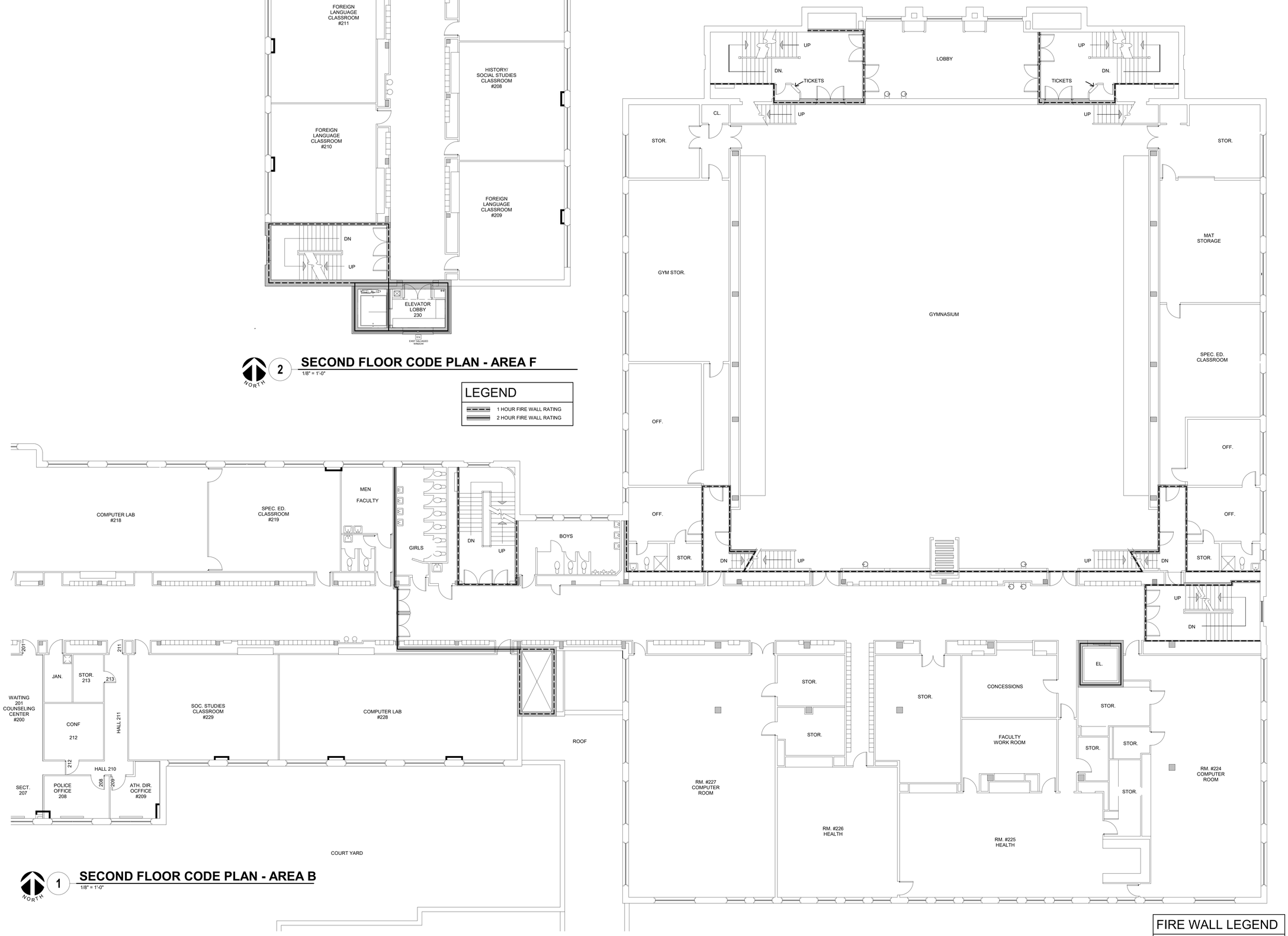
NORTH 2

SECOND FLOOR CODE PLAN - AREA F

1/8" = 1'-0"

LEGEND

- 1 HOUR FIRE WALL RATING
- 2 HOUR FIRE WALL RATING



NORTH 1

SECOND FLOOR CODE PLAN - AREA B

1/8" = 1'-0"

FIRE WALL LEGEND

- 1 HOUR FIRE WALL RATING
- 2 HOUR FIRE WALL RATING

1/28/2022 5:52:54 PM ESSER HVAC Improvements - East High School

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Approved	**Approver**

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SECOND FLOOR CODE PLAN - AREAS B & F

SCALE

Scale: **As indicated**

SHEET NUMBER

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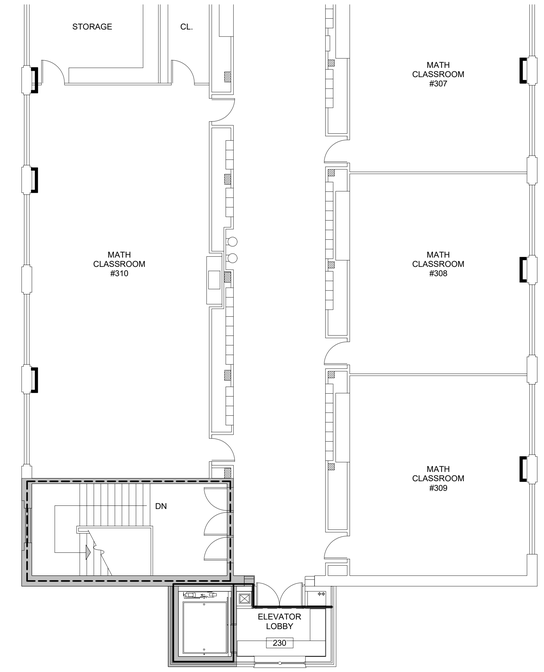

THIRD FLOOR CODE PLAN - AREA F

1/8" = 1'-0"

LEGEND
1 HOUR FIRE WALL RATING
2 HOUR FIRE WALL RATING

THIRD FLOOR CODE PLAN - AREA B

1/8" = 1'-0"

FIRE WALL LEGEND
1 HOUR FIRE WALL RATING
2 HOUR FIRE WALL RATING

1/28/2022 5:52:58 PM ESSER HVAC Improvements - East High School 21011.40

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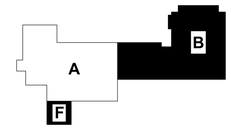
KEY PLAN



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REVISIONS

No.	Date	Revision / Issue

SHEET INFORMATION

Issue	**BID DOCUMENTS**
Date	**01-28-2022**
Job Number	**21011.40**
Drawn	**Author**
Checked	**Checker**
Approved	**Approver**

SHEET TITLE

THIRD FLOOR CODE PLAN - AREAS B & F

SCALE

Scale: **As indicated**

SHEET NUMBER

G1.03B

DEMOLITION KEY NOTES

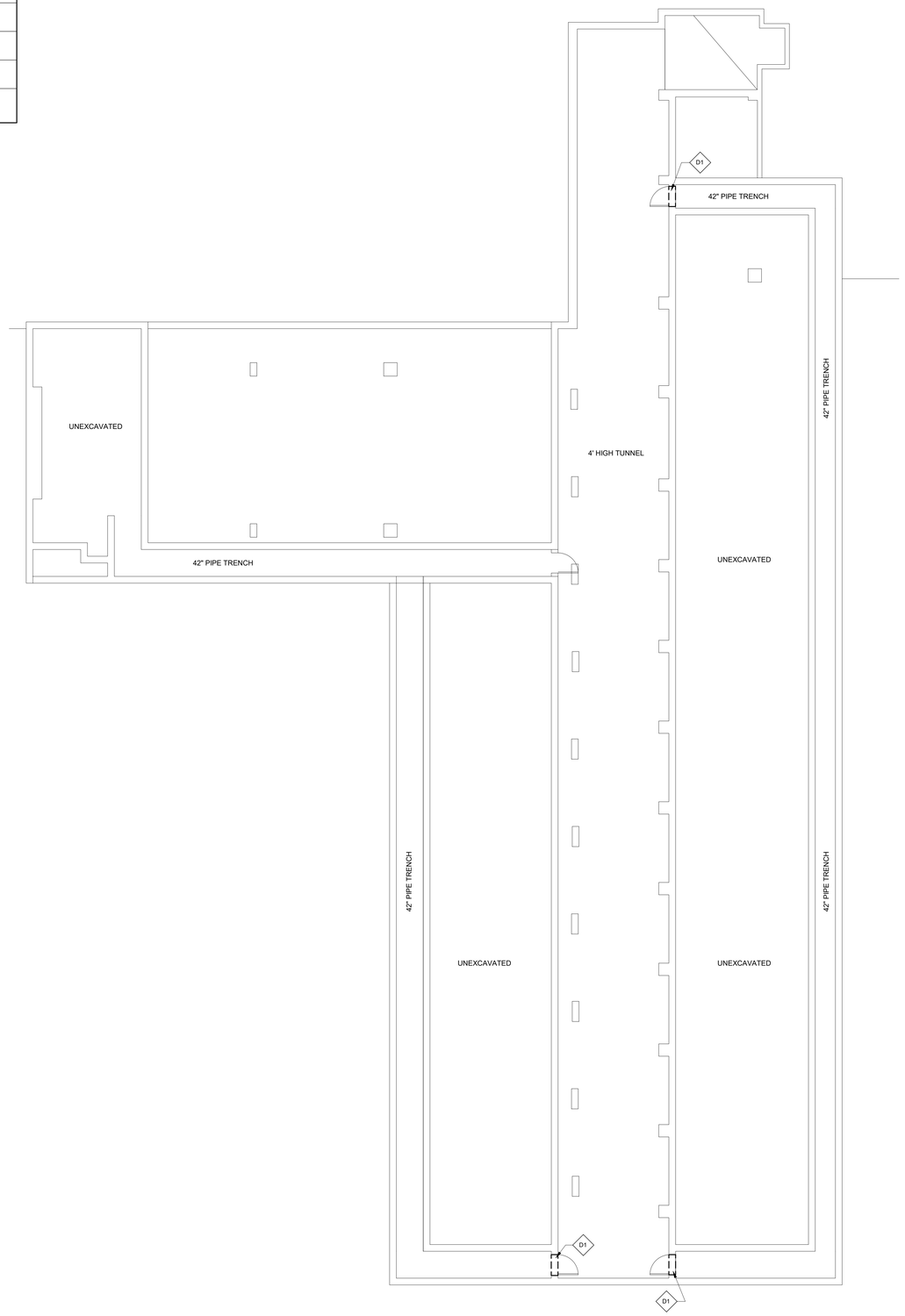
D1 CORE/REMOVE MASONRY AS NECESSARY TO ROUTE NEW PIPING. IF CORING TIGHT TO NEW PIPING IS NOT FEASIBLE, REMOVE FULL CMU AND/OR BRICK.	D8 REMOVE PORTION OF EXISTING FLOOR TO ACCOMMODATE NEW MECHANICAL DUCTWORK/PIPING; REFER TO MECHANICAL AND STRUCTURAL DRAWINGS FOR ADDITIONAL INFORMATION.
D2 CORE/REMOVE MASONRY AS NECESSARY TO ROUTE NEW DUCTWORK. REMOVE FULL CMU AND OR BRICK. REFER TO STRUCTURAL DRAWINGS FOR LINTEL INFORMATION.	D9 REMOVE GYPSUM BOARD AS REQUIRED TO ROUTE NEW DUCTWORK.
D3 EXISTING CONCRETE GRADE TO BE CUT TO ALLOW FOR NEW ELECTRICAL SERVICE CONDUITS.	D10 REMOVE EXISTING DOOR AND FRAME.
D4 CORE/REMOVE MASONRY AS NECESSARY FOR NEW ELECTRICAL SERVICE CONDUITS ENTERING IN THE BUILDING AT THE CEILING SPACE FROM OUTSIDE.	D11 REMOVE EXISTING CEILING SYSTEM IN ITS ENTIRETY.
D5 CORE/REMOVE MASONRY AS NECESSARY FOR NEW 42" DOOR.	D12 REMOVE OLD GUN RANGE BARRIER AT END OF RANGE AND ANGLED METAL CEILING PANELS.
D6 COMPLETELY REMOVE DOOR AND FRAME. CLOSE OFF WALL TO ALLOW FOR USE AS A PIPE CHASE.	D13 EXISTING CEILING TO BE DEMOLISHED IN AREA INDICATED.
D7 REMOVE PORTION OF EXISTING MASONRY WALL TO ACCOMMODATE NEW WORK. SEE STRUCTURAL DRAWINGS FOR LINTEL INFORMATION IF REQUIRED.	D14 REMOVE EXISTING CEILING AND LIGHTS TO ALLOW FOR NEW WORK. SAVE FOR REINSTALLATION.

GENERAL NOTES

1. FOR THE REMOVAL OF MECHANICAL DUCTWORK AND PIPING, REFER TO MECHANICAL DRAWINGS.

LEGEND

- DEMOLITION WORK
- NEW WORK



1 **SUBFLOOR DEMOLTION PLAN - AREA A**
1/8" = 1'-0"

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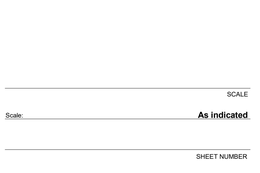

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SHEET TITLE
SUBFLOOR DEMOLITION PLAN - AREA A

SCALE
Scale: **As indicated**

SHEET NUMBER
D0.00A

GENERAL NOTES

1. FOR THE REMOVAL OF MECHANICAL DUCTWORK AND PIPING, REFER TO MECHANICAL DRAWINGS.

LEGEND

- DEMOLITION WORK
- NEW WORK

DEMOLITION KEY NOTES

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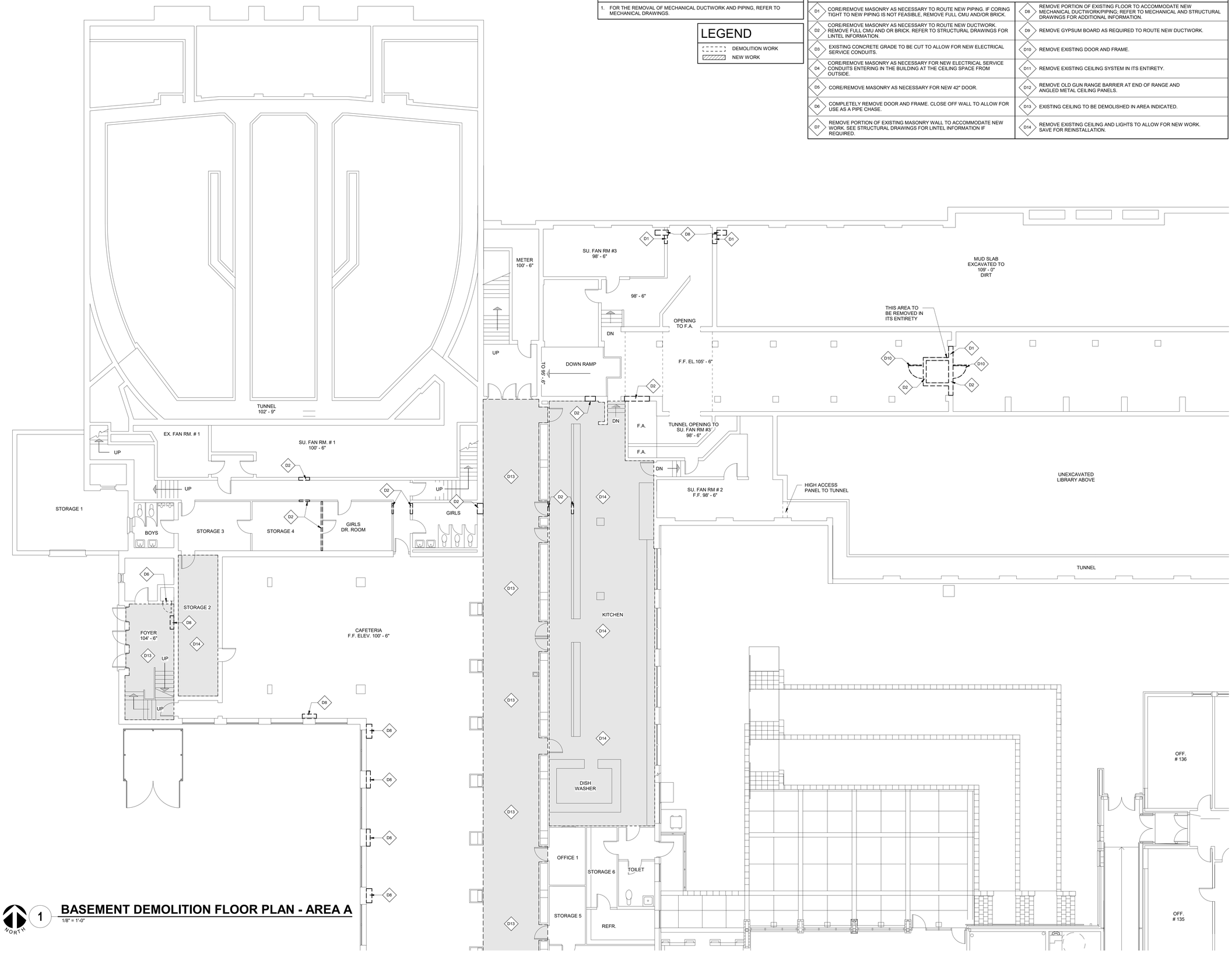

1 **BASEMENT DEMOLITION FLOOR PLAN - AREA A**

1/8" = 1'-0"

NORTH

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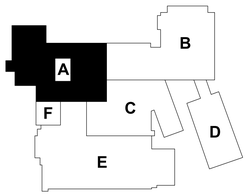

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SHEET TITLE

BASEMENT DEMOLITION FLOOR PLAN - AREA A

SCALE

Scale: **As indicated**

SHEET NUMBER

D1.00A

21011.40 1/28/2022 5:51:17 PM ESSER HVAC Improvements - East High School

DEMOLITION KEY NOTES

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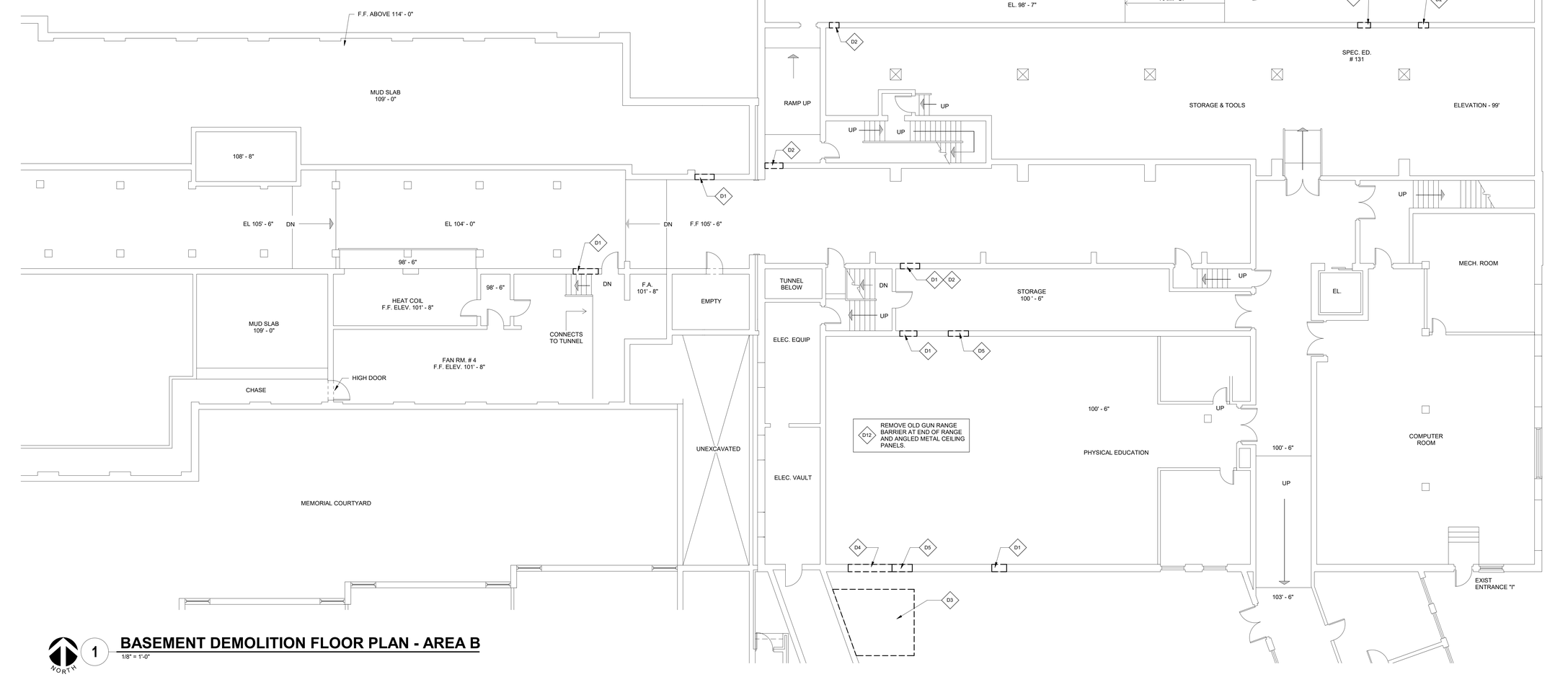
LEGEND

- DEMOLITION WORK
- NEW WORK



NORTH 1

BASEMENT DEMOLITION FLOOR PLAN - AREA B

1/8" = 1'-0"

1/28/2022 5:51:21 PM ESSER HVAC Improvements - East High School

21011.40

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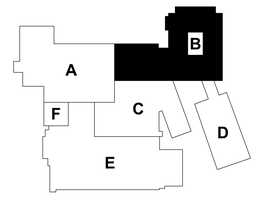

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Approved	**Approver**

SHEET TITLE

BASEMENT DEMOLITION FLOOR PLAN - AREA B

SCALE

Scale: **As indicated**

SHEET NUMBER

D1.00B

GENERAL NOTES

1. FOR THE REMOVAL OF MECHANICAL DUCTWORK AND PIPING, REFER TO MECHANICAL DRAWINGS.

LEGEND

- DEMOLITION WORK
- NEW WORK

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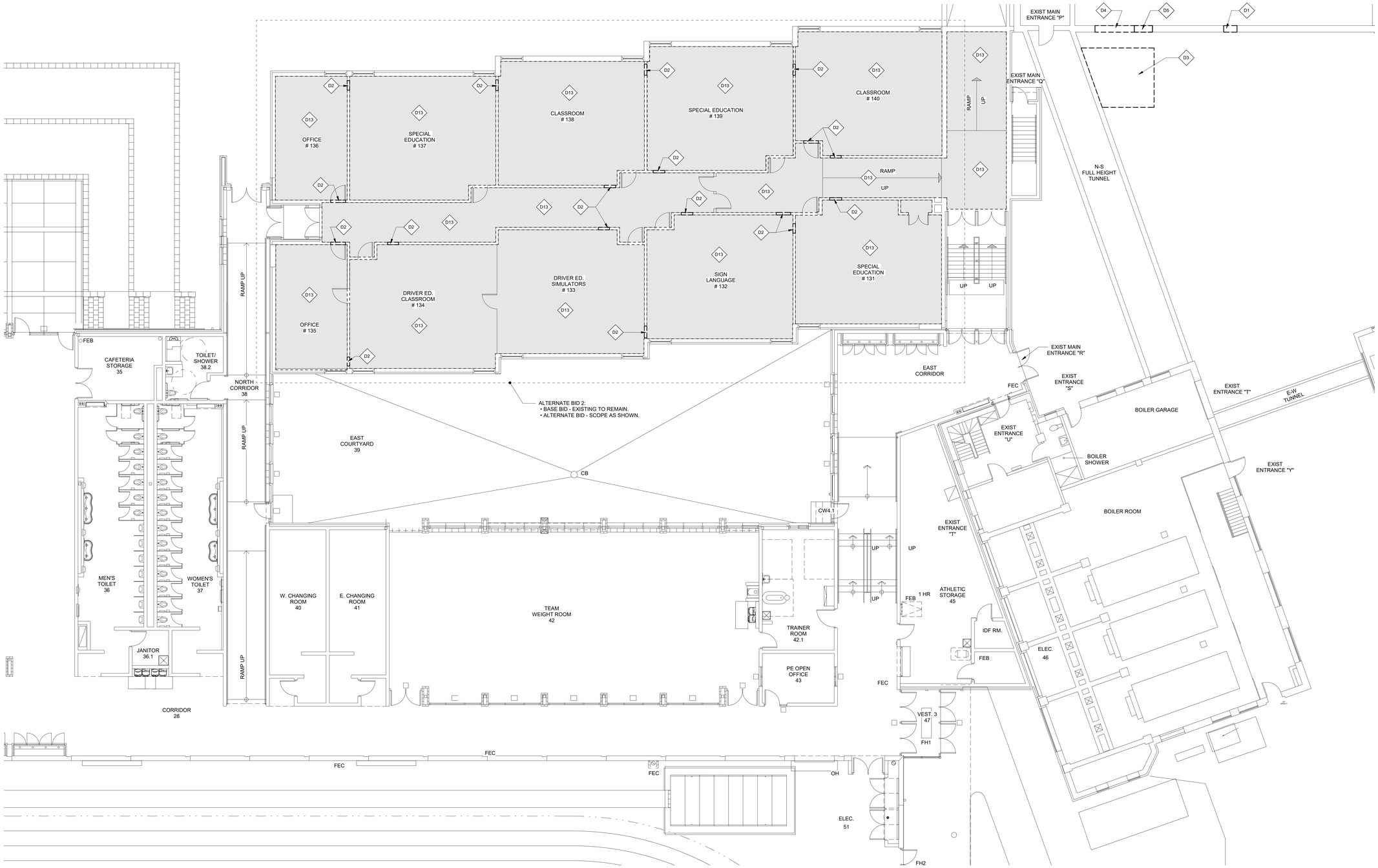

1 BASEMENT DEMOLITION FLOOR PLAN - AREA C

1/8" = 1'-0"

NORTH

21011.40 1/28/2022 5:51:25 PM ESSER HVAC Improvements - East High School

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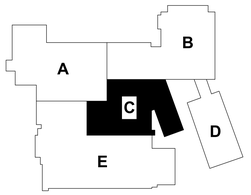

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SHEET TITLE

BASEMENT DEMOLITION FLOOR PLAN - AREA C

SCALE

Scale: **As indicated**

SHEET NUMBER

D1.00C

DEMOLITION KEY NOTES

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GENERAL NOTES

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LEGEND

- DEMOLITION WORK
- NEW WORK

NORTH 1

BASEMENT DEMOLITION FLOOR PLAN - AREA D

1/8" = 1'-0"

21011.40 1/28/2022 5:51:28 PM ESSER HVAC Improvements - East High School

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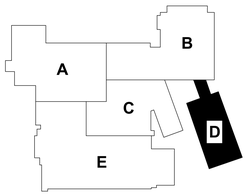

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BASEMENT DEMOLITION FLOOR PLAN - AREA D

SCALE

Scale: **As indicated**

SHEET NUMBER

D1.00D

GENERAL NOTES

1. FOR THE REMOVAL OF MECHANICAL DUCTWORK AND PIPING, REFER TO MECHANICAL DRAWINGS.

LEGEND

- DEMOLITION WORK
- NEW WORK

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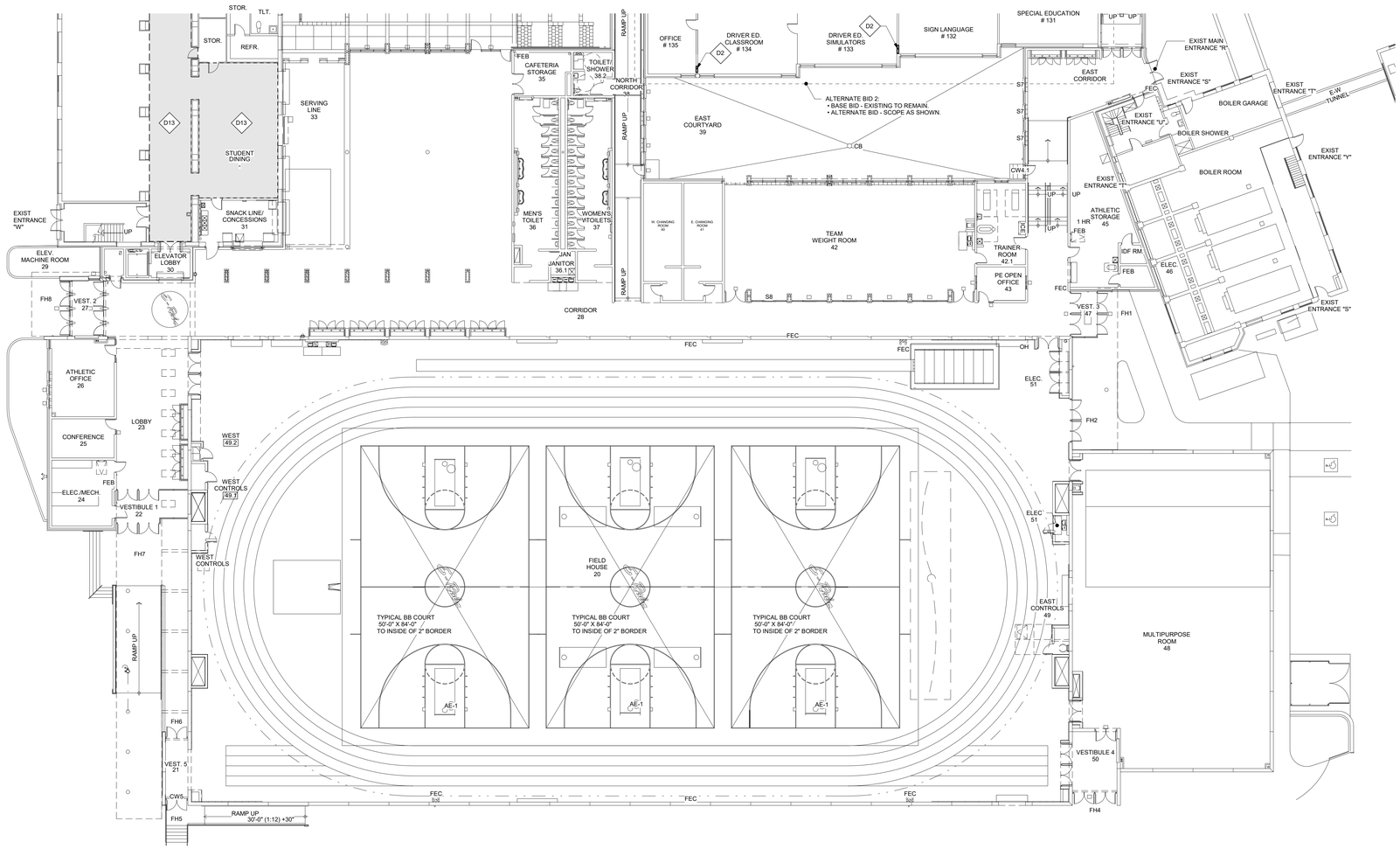

1 BASEMENT DEMOLITION FLOOR PLAN - AREA E

1/16" = 1'-0"

NORTH

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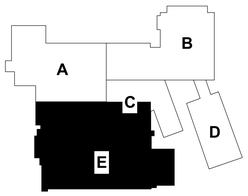

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REVISIONS

No.	Date	Revision / Issue

SHEET INFORMATION

Issue	**BID DOCUMENTS**
Date	**01-28-2022**
Job Number	**21011.40**
Drawn	**Author**
Checked	**Checker**
Approved	**Approver**

SHEET TITLE

BASEMENT DEMOLITION FLOOR PLAN - AREA E

SCALE

Scale: **As indicated**

SHEET NUMBER

D1.00E

21011.40 1/28/2022 5:51:33 PM ESSER HVAC Improvements - East High School

GENERAL NOTES

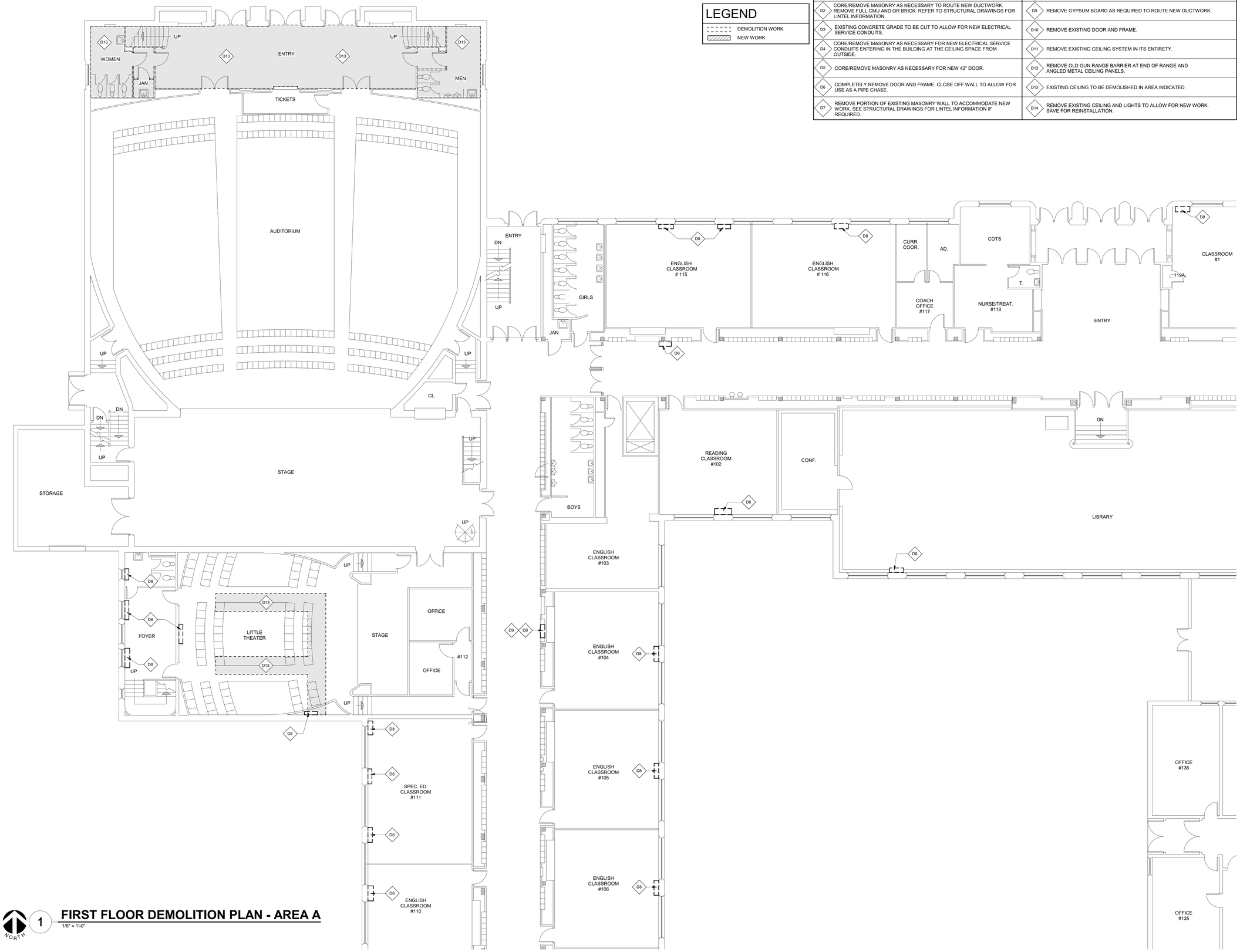
1. FOR THE REMOVAL OF MECHANICAL DUCTWORK AND PIPING, REFER TO MECHANICAL DRAWINGS.

LEGEND

- DEMOLITION WORK
- NEW WORK

DEMOLITION KEY NOTES

D1 CORE/REMOVE MASONRY AS NECESSARY TO ROUTE NEW PIPING. IF CORING TIGHT TO NEW PIPING IS NOT FEASIBLE, REMOVE FULL CMU AND/OR BRICK.	D8 REMOVE PORTION OF EXISTING FLOOR TO ACCOMMODATE NEW MECHANICAL DUCTWORK/PIPING; REFER TO MECHANICAL AND STRUCTURAL DRAWINGS FOR ADDITIONAL INFORMATION.
D2 CORE/REMOVE MASONRY AS NECESSARY TO ROUTE NEW DUCTWORK. REMOVE FULL CMU AND OR BRICK. REFER TO STRUCTURAL DRAWINGS FOR LINTEL INFORMATION.	D9 REMOVE GYPSUM BOARD AS REQUIRED TO ROUTE NEW DUCTWORK.
D3 EXISTING CONCRETE GRADE TO BE CUT TO ALLOW FOR NEW ELECTRICAL SERVICE CONDUITS.	D10 REMOVE EXISTING DOOR AND FRAME.
D4 CORE/REMOVE MASONRY AS NECESSARY FOR NEW ELECTRICAL SERVICE CONDUITS ENTERING IN THE BUILDING AT THE CEILING SPACE FROM OUTSIDE.	D11 REMOVE EXISTING CEILING SYSTEM IN ITS ENTIRETY.
D5 CORE/REMOVE MASONRY AS NECESSARY FOR NEW 42" DOOR.	D12 REMOVE OLD GUN RANGE BARRIER AT END OF RANGE AND ANGLED METAL CEILING PANELS.
D6 COMPLETELY REMOVE DOOR AND FRAME. CLOSE OFF WALL TO ALLOW FOR USE AS A PIPE CHASE.	D13 EXISTING CEILING TO BE DEMOLISHED IN AREA INDICATED.
D7 REMOVE PORTION OF EXISTING MASONRY WALL TO ACCOMMODATE NEW WORK. SEE STRUCTURAL DRAWINGS FOR LINTEL INFORMATION IF REQUIRED.	D14 REMOVE EXISTING CEILING AND LIGHTS TO ALLOW FOR NEW WORK. SAVE FOR REINSTALLATION.



1 **FIRST FLOOR DEMOLITION PLAN - AREA A**

1/8" = 1'-0"

NORTH

21011.40 1/28/2022 5:51:36 PM ESSER HVAC Improvements - East High School

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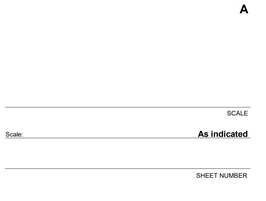
KEY PLAN



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Approved	**Approver**

SHEET TITLE

FIRST FLOOR DEMOLITION PLAN - AREA A

SCALE

Scale: **As indicated**

SHEET NUMBER

D1.01A

DEMOLITION KEY NOTES

D1	CORE/REMOVE MASONRY AS NECESSARY TO ROUTE NEW PIPING. IF CORING TIGHT TO NEW PIPING IS NOT FEASIBLE, REMOVE FULL CMU AND/OR BRICK.	D8	REMOVE PORTION OF EXISTING FLOOR TO ACCOMMODATE NEW MECHANICAL DUCTWORK/PIPING; REFER TO MECHANICAL AND STRUCTURAL DRAWINGS FOR ADDITIONAL INFORMATION.
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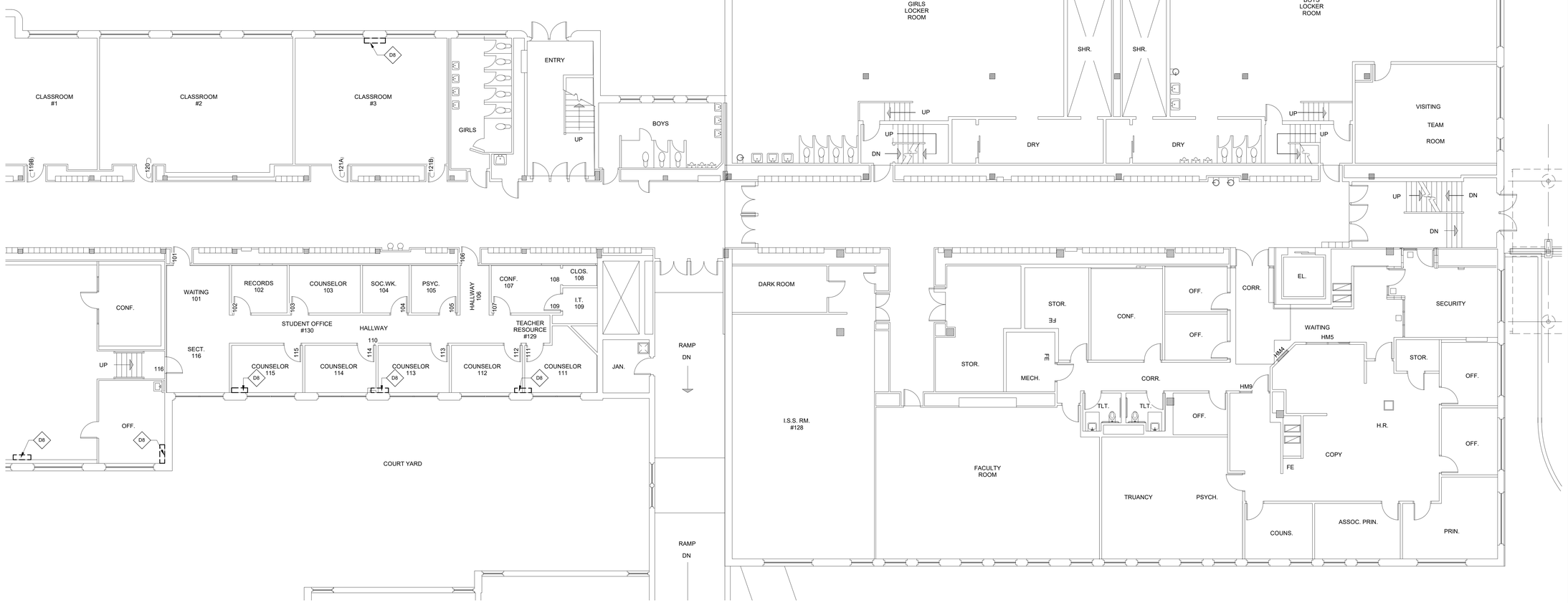
D7	REMOVE PORTION OF EXISTING MASONRY WALL TO ACCOMMODATE NEW WORK. SEE STRUCTURAL DRAWINGS FOR LINTEL INFORMATION IF REQUIRED.	D14	REMOVE EXISTING CEILING AND LIGHTS TO ALLOW FOR NEW WORK. SAVE FOR REINSTALLATION.

GENERAL NOTES

1. FOR THE REMOVAL OF MECHANICAL DUCTWORK AND PIPING, REFER TO MECHANICAL DRAWINGS.

LEGEND

- DEMOLITION WORK
- NEW WORK



1 **FIRST FLOOR DEMOLITION PLAN - AREA B**

1/8" = 1'-0"

NORTH

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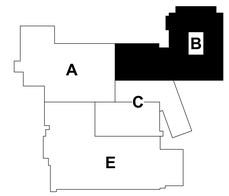
KEY PLAN



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SHEET TITLE

FIRST FLOOR DEMOLITION PLAN - AREA B

SCALE

Scale: **As indicated**

SHEET NUMBER

D1.01B

1/28/2022 5:51:40 PM ESSER HVAC Improvements - East High School 21011.40

GENERAL NOTES

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LEGEND

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- NEW WORK

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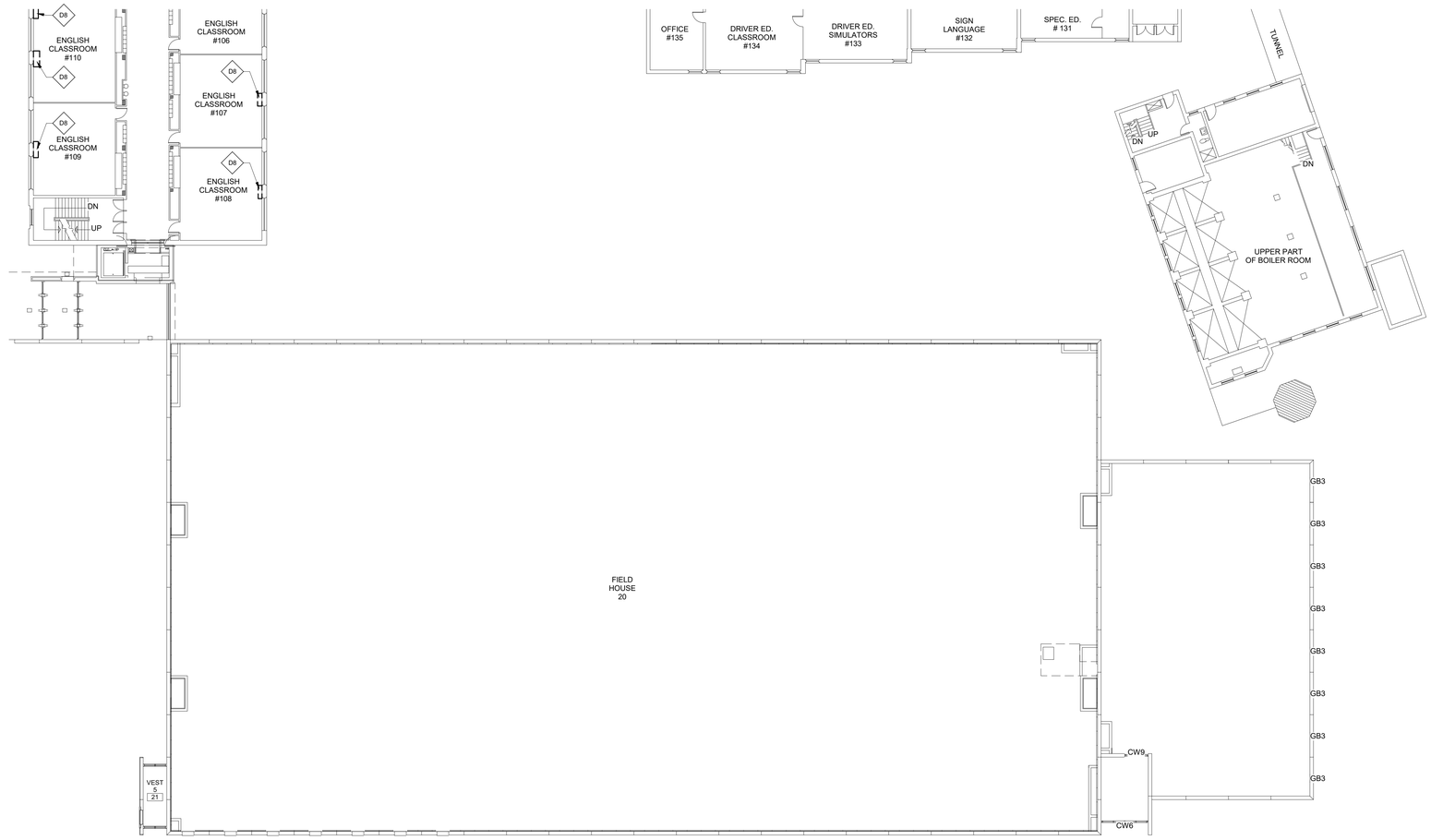

1 NORTH

FIRST FLOOR DEMOLITION PLAN - AREA E

1/16" = 1'-0"

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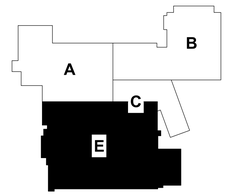

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Approved	**Approver**

SHEET TITLE

FIRST FLOOR DEMOLITION PLAN - AREA E

SCALE

Scale: **As indicated**

SHEET NUMBER

D1.01E

GENERAL NOTES

1. FOR THE REMOVAL OF MECHANICAL DUCTWORK AND PIPING, REFER TO MECHANICAL DRAWINGS.

LEGEND

- DEMOLITION WORK
- NEW WORK

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D1	CORE/REMOVE MASONRY AS NECESSARY TO ROUTE NEW PIPING. IF CORING TIGHT TO NEW PIPING IS NOT FEASIBLE, REMOVE FULL CMU AND/OR BRICK.	D8	REMOVE PORTION OF EXISTING FLOOR TO ACCOMMODATE NEW MECHANICAL DUCTWORK/PIPING; REFER TO MECHANICAL AND STRUCTURAL DRAWINGS FOR ADDITIONAL INFORMATION.
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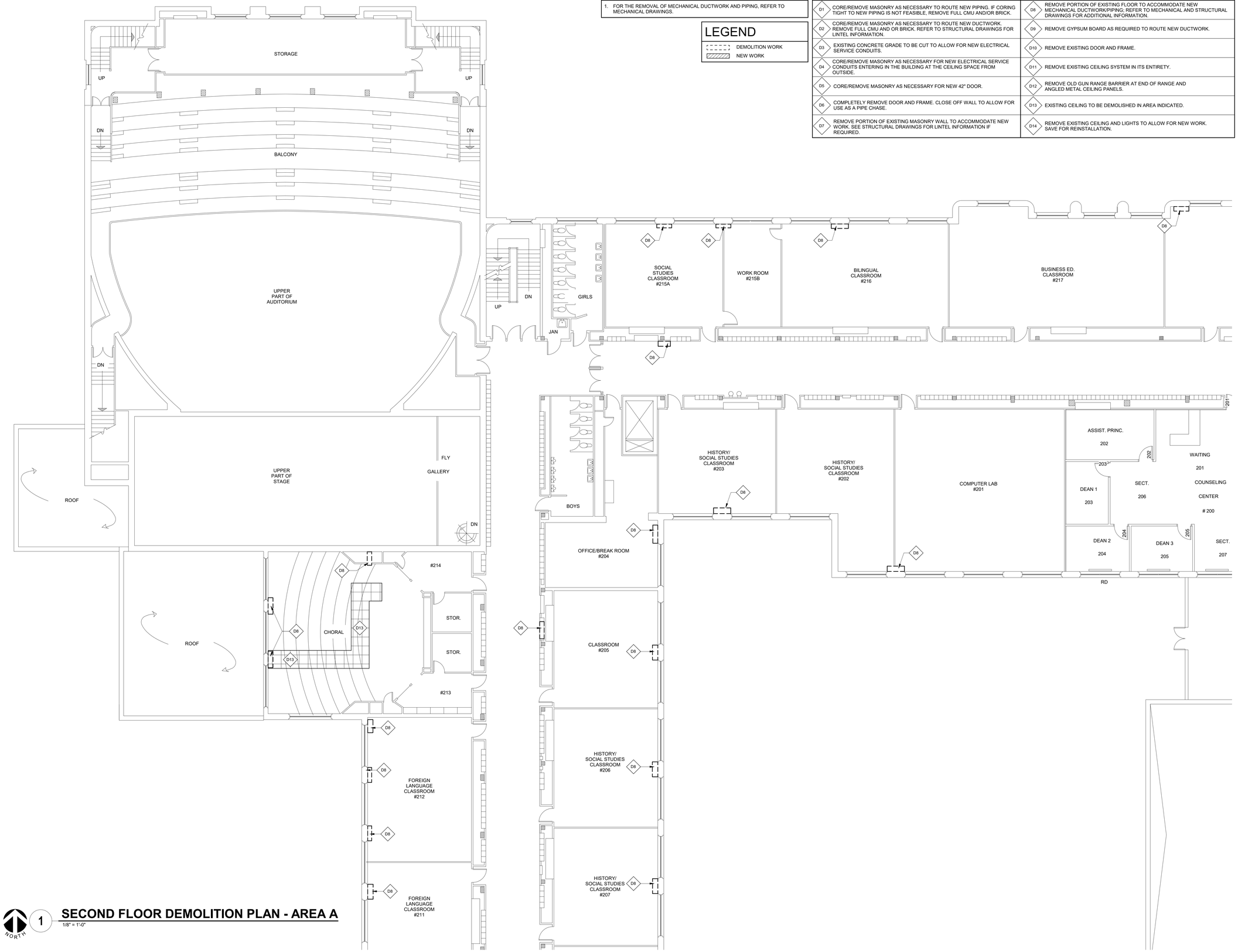

1 NORTH

SECOND FLOOR DEMOLITION PLAN - AREA A

1/8" = 1'-0"

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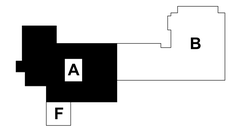

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Approved	**Approver**

SHEET TITLE

SECOND FLOOR DEMOLITION PLAN - AREA A

SCALE

Scale: **As indicated**

SHEET NUMBER

D1.02A

DEMOLITION KEY NOTES

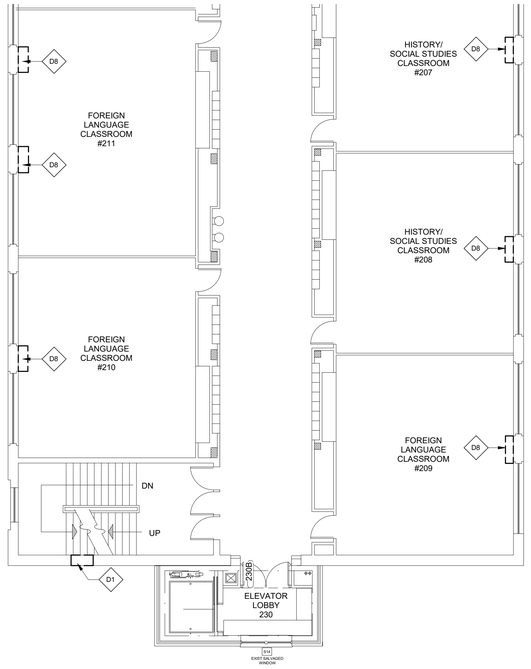
D1	CORE/REMOVE MASONRY AS NECESSARY TO ROUTE NEW PIPING. IF CORING TIGHT TO NEW PIPING IS NOT FEASIBLE, REMOVE FULL CMU AND/OR BRICK.
D2	CORE/REMOVE MASONRY AS NECESSARY TO ROUTE NEW DUCTWORK. REMOVE FULL CMU AND OR BRICK. REFER TO STRUCTURAL DRAWINGS FOR LINTEL INFORMATION.
D3	EXISTING CONCRETE GRADE TO BE CUT TO ALLOW FOR NEW ELECTRICAL SERVICE CONDUITS.
D4	CORE/REMOVE MASONRY AS NECESSARY FOR NEW ELECTRICAL SERVICE CONDUITS ENTERING IN THE BUILDING AT THE CEILING SPACE FROM OUTSIDE.
D5	NOT USED ON THIS SHEET
D6	REMOVE EXISTING PLASTER/GYPSUM BOARD CEILING AS REQUIRED TO ACCOMMODATE NEW WORK.
D7	REMOVE PORTION OF EXISTING MASONRY WALL TO ACCOMMODATE NEW WORK. SEE STRUCTURAL DRAWINGS FOR LINTEL INFORMATION IF REQUIRED.
D8	REMOVE PORTION OF EXISTING FLOOR TO ACCOMMODATE NEW MECHANICAL DUCTWORK/PIPING; REFER TO MECHANICAL AND STRUCTURAL DRAWINGS FOR ADDITIONAL INFORMATION.
D9	REMOVE GYPSUM BOARD AS REQUIRED TO ROUTE NEW DUCTWORK.
D10	REMOVE EXISTING DOOR AND FRAME.
D11	REMOVE EXISTING CEILING IN AREA INDICATED TO ALLOW FOR VERTICAL DUCTWORK/PIPING.
D12	NOT USED ON THIS SHEET.
D13	EXISTING CEILINGS TO BE DEMOLISHED IN AREAS INDICATED
D14	REMOVE PORTION OF EXISTING NON-MASONRY WALL TO ROUTE NEW DUCTWORK/PIPING.

GENERAL NOTES

1. FOR THE REMOVAL OF MECHANICAL DUCTWORK AND PIPING, REFER TO MECHANICAL DRAWINGS.

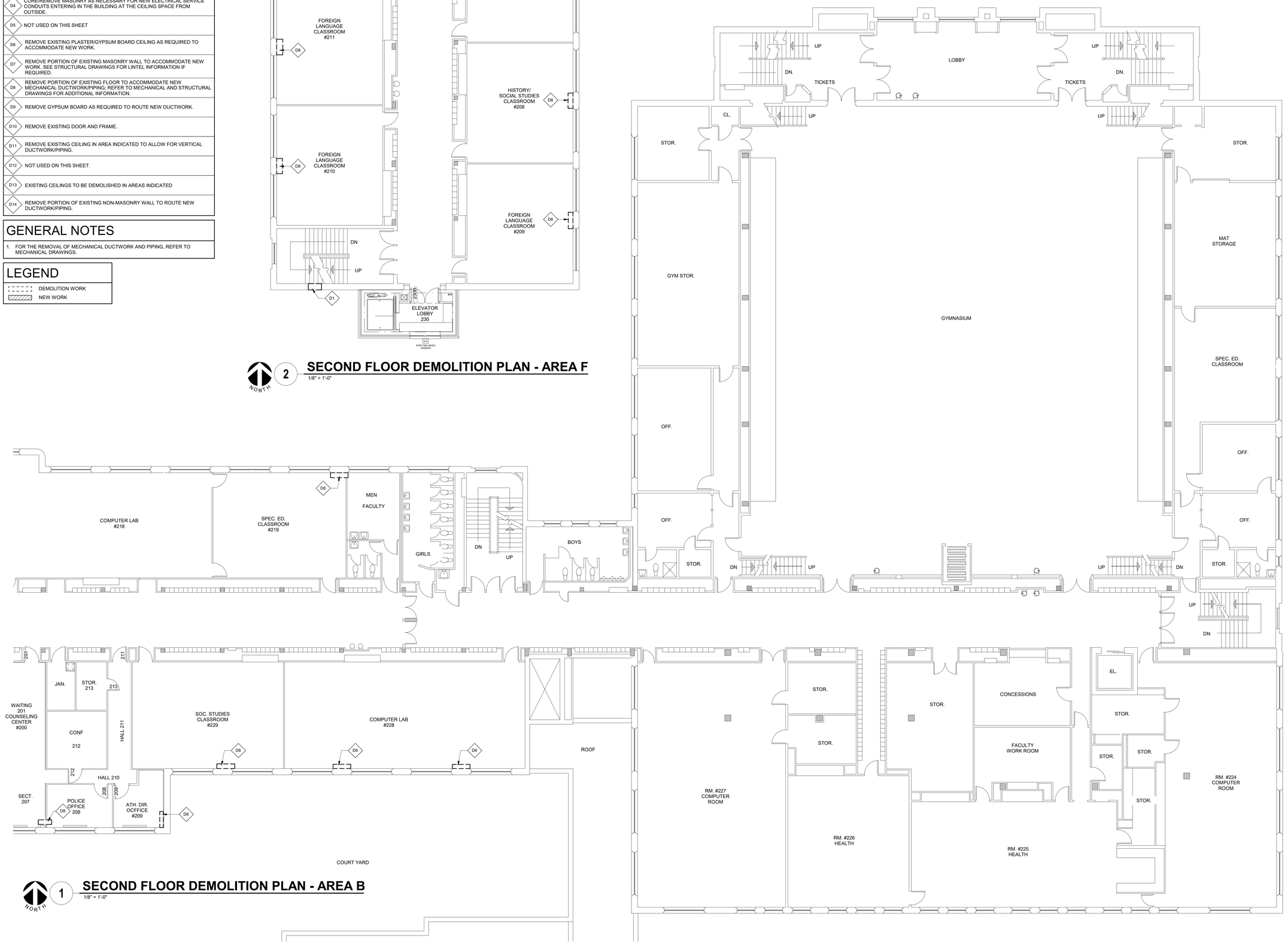
LEGEND

- DEMOLITION WORK
- NEW WORK



NORTH 2 **SECOND FLOOR DEMOLITION PLAN - AREA F**

1/8" = 1'-0"



NORTH 1 **SECOND FLOOR DEMOLITION PLAN - AREA B**

1/8" = 1'-0"

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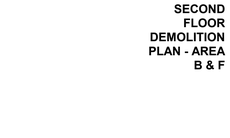

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Approved	**Approver**

SHEET TITLE

SECOND FLOOR DEMOLITION PLAN - AREA B & F

SCALE

Scale: **As indicated**

SHEET NUMBER

D1.02B

1/28/2022 5:51:50 PM ESSER HVAC Improvements - East High School 21011.40

GENERAL NOTES

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LEGEND

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- NEW WORK

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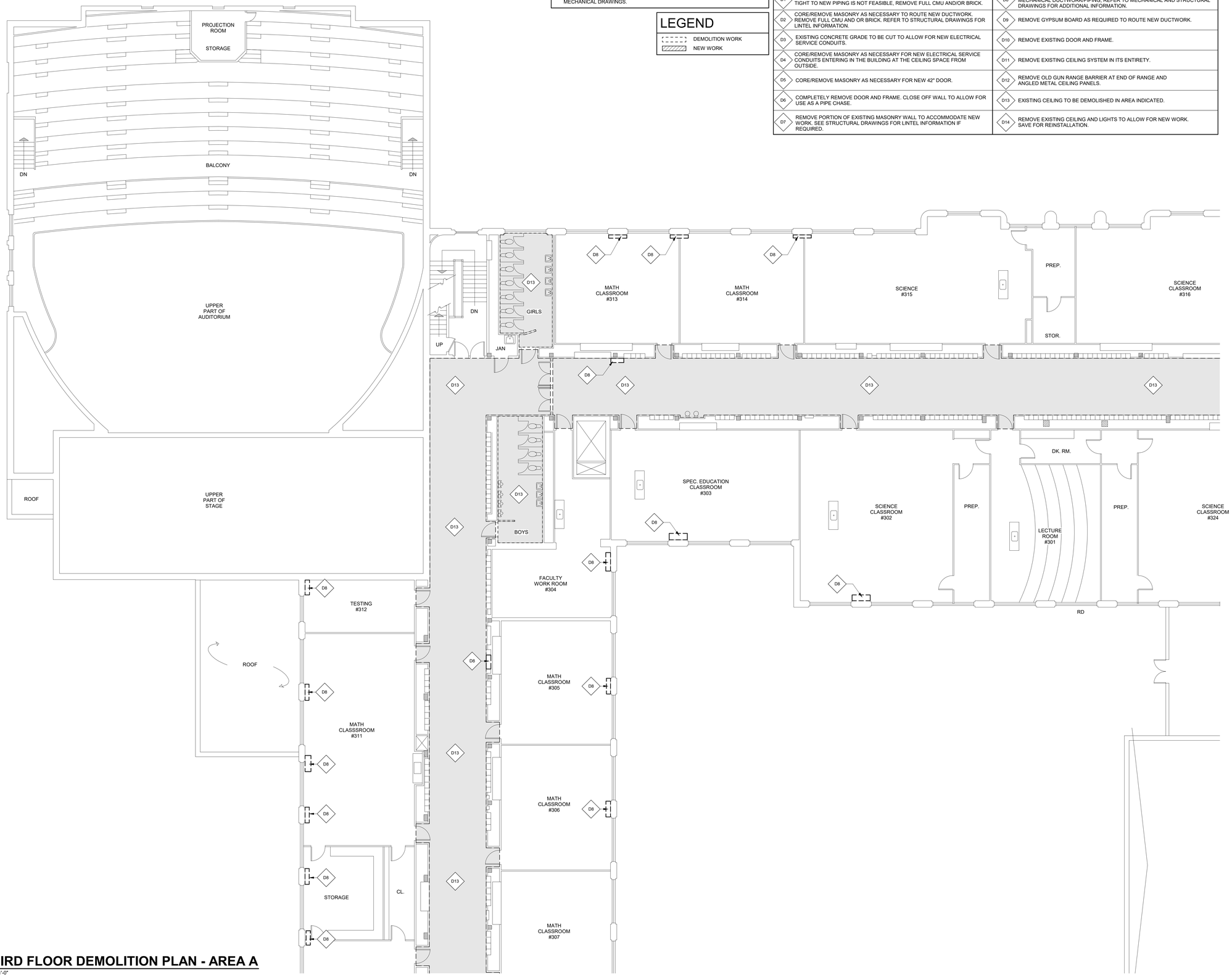

1 NORTH

THIRD FLOOR DEMOLITION PLAN - AREA A

1/8" = 1'-0"

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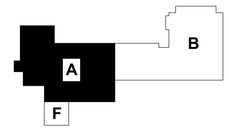

KEYPLAN

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REFERENCE SCALE IN INCHES

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REVISIONS

No.	Date	Revision / Issue

SHEET INFORMATION

Issue	**BID DOCUMENTS**
Date	**01-28-2022**
Job Number	**21011.40**
Drawn	**Author**
Checked	**Checker**
Approved	**Approver**

SHEET TITLE

THIRD FLOOR DEMOLITION PLAN - AREA A

SCALE

Scale: **As indicated**

SHEET NUMBER

D1.03A

21011.40 1/28/2022 5:51:54 PM ESSER HVAC Improvements - East High School

DEMOLITION KEY NOTES

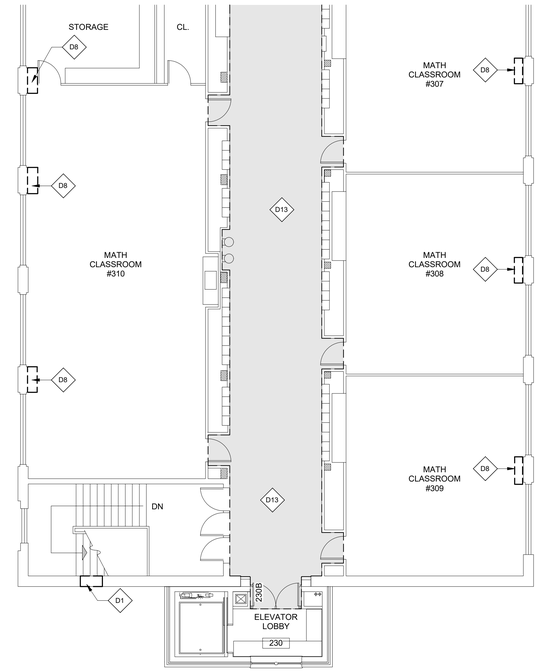
D1	CORE/REMOVE MASONRY AS NECESSARY TO ROUTE NEW PIPING. IF CORING TIGHT TO NEW PIPING IS NOT FEASIBLE, REMOVE FULL CMU AND/OR BRICK.
D2	CORE/REMOVE MASONRY AS NECESSARY TO ROUTE NEW DUCTWORK. REMOVE FULL CMU AND OR BRICK. REFER TO STRUCTURAL DRAWINGS FOR LINTEL INFORMATION.
D3	EXISTING CONCRETE GRADE TO BE CUT TO ALLOW FOR NEW ELECTRICAL SERVICE CONDUITS.
D4	CORE/REMOVE MASONRY AS NECESSARY FOR NEW ELECTRICAL SERVICE CONDUITS ENTERING IN THE BUILDING AT THE CEILING SPACE FROM OUTSIDE.
D5	NOT USED ON THIS SHEET
D6	REMOVE EXISTING PLASTER/GYPSUM BOARD CEILING AS REQUIRED TO ACCOMMODATE NEW WORK.
D7	REMOVE PORTION OF EXISTING MASONRY WALL TO ACCOMMODATE NEW WORK. SEE STRUCTURAL DRAWINGS FOR LINTEL INFORMATION IF REQUIRED.
D8	REMOVE PORTION OF EXISTING FLOOR TO ACCOMMODATE NEW MECHANICAL DUCTWORK/PIPING; REFER TO MECHANICAL AND STRUCTURAL DRAWINGS FOR ADDITIONAL INFORMATION.
D9	REMOVE GYPSUM BOARD AS REQUIRED TO ROUTE NEW DUCTWORK.
D10	REMOVE EXISTING DOOR AND FRAME.
D11	REMOVE EXISTING CEILING IN AREA INDICATED TO ALLOW FOR VERTICAL DUCTWORK/PIPING.
D12	NOT USED ON THIS SHEET.
D13	EXISTING CEILINGS TO BE DEMOLISHED IN AREAS INDICATED
D14	REMOVE PORTION OF EXISTING NON-MASONRY WALL TO ROUTE NEW DUCTWORK/PIPING.

GENERAL NOTES

1. FOR THE REMOVAL OF MECHANICAL DUCTWORK AND PIPING, REFER TO MECHANICAL DRAWINGS.

LEGEND

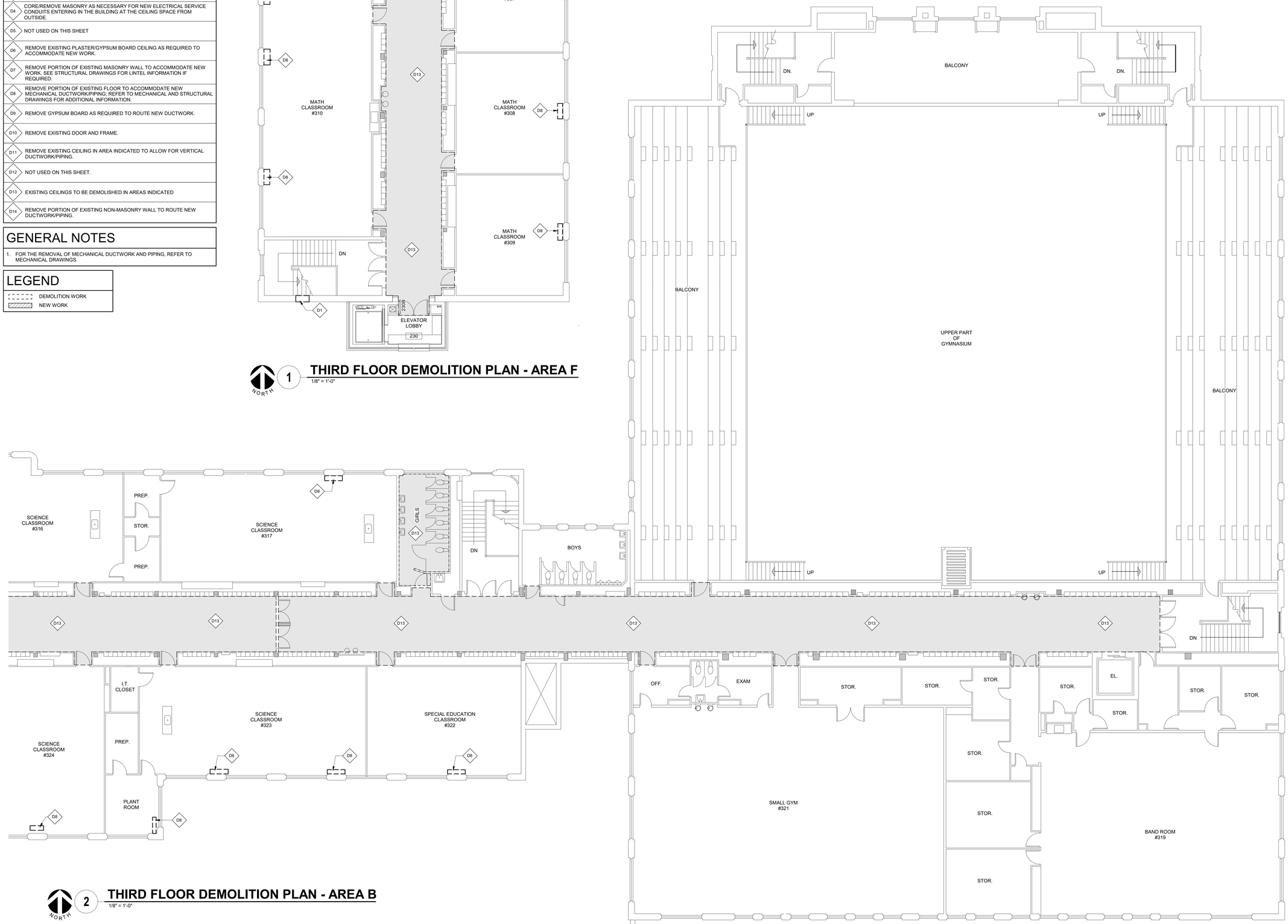
- DEMOLITION WORK
- NEW WORK



NORTH 1

THIRD FLOOR DEMOLITION PLAN - AREA F

1/8" = 1'-0"



NORTH 2

THIRD FLOOR DEMOLITION PLAN - AREA B

1/8" = 1'-0"

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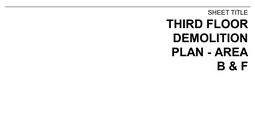
KEY PLAN



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SHEET TITLE

THIRD FLOOR DEMOLITION PLAN - AREA B & F

SCALE

Scale: **As indicated**

SHEET NUMBER

D1.03B

GENERAL NOTES

1. REFER TO MECHANICAL AND ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.

GENERAL ROOF NOTES

1. EACH BIDDER SHALL VISIT THE SITE OF PROPOSED WORK AND FULLY ACQUAINT THEMSELVES WITH CONDITIONS RELATING TO CONSTRUCTION AND LABOR SO THAT THEY MAY FULLY UNDERSTAND THE FACILITIES, DIFFICULTIES, AND RESTRICTIONS AFFECTING THE COMPLETION OF THE WORK INCLUDED UNDER THE CONTRACT.
2. FIELD VERIFY AND COORDINATE ITEMS, DIMENSIONS, CONDITIONS, AND QUANTITIES, ETC. NOTIFY ARCHITECT OF ANY APPARENT DISCREPANCIES.
3. ITEMS INDICATED AS EXISTING ARE TO REMAIN. UON.
4. CONTRACTOR TO AVOID EXISTING ROOF AREAS WHERE NO WORK IS REQUIRED. DO NOT STAGE MATERIALS ON EXISTING ROOF AREAS. DAMAGE TO EXISTING ROOF AREAS CAUSED BY CONSTRUCTION SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO REPAIR OR REPLACE AND PROVIDE A WEATHERTIGHT CONDITION THAT MATCHES THE EXISTING ROOFING SYSTEM.
5. PROVIDE MATERIALS AND PERFORM WORK TO PROVIDE A COMPLETE WEATHERTIGHT CONDITION. ROOF WORK SHALL BE PERFORMED IN STRICT ACCORDANCE WITH THE ROOF MEMBRANE MANUFACTURER'S WRITTEN REQUIREMENTS.
6. CONTRACTOR SHALL BE RESPONSIBLE FOR EXTENDING AND ADJUSTING EXISTING ITEMS ON THE ROOF WHETHER SHOWN OR NOT INCLUDING, BUT NOT LIMITED TO CURBS, MECHANICAL ITEMS, GAS PIPING, ELECTRICAL DEVICES, CONDUITS, FANS, STACKS, VENTS, DRAINS, ETC. PER EQUIPMENT MANUFACTURER'S WRITTEN REQUIREMENTS.
7. LOCATION OF EXISTING ROOF TOP MECHANICAL EQUIPMENT IS DIAGRAMMATIC. CONTRACTOR TO FIELD VERIFY EXACT QUANTITIES AND LOCATIONS.
8. INSPECT EXISTING ROOF DECK AFTER TEAR-OFF AT ROOF AREAS TO BE REMOVED DOWN TO EXISTING ROOF DECK. NOTIFY ARCHITECT OF DAMAGED OR DETERIORATED ROOF DECK.
9. REPAIR OR REPLACE ROOF DECK DAMAGED DURING TEAR-OFF AT NO COST TO THE OWNER.
10. REPLACE EXISTING DAMAGED WOOD NAILERS AS REQUIRED.
11. ROOFING DETAILS MUST MEET THE REQUIREMENTS OF THE ROOFING MANUFACTURE TO OBTAIN THE ROOFING WARRANTY AS SPECIFIED.
12. METAL ROOF EDGE SECUREMENT COMPONENTS SHALL MEET REQUIREMENTS OF ANSI/SPRI ES-1.
13. ADJUST EXISTING ROOF DRAIN HEIGHTS AS REQUIRED TO MEET NEW INSULATION HEIGHTS, VIF.
14. PATCH EXISTING SURFACES AND FINISHES AFFECTED BY THE WORK WITH MATERIALS CONSISTENT WITH EXISTING CONSTRUCTION WHETHER OR NOT PATCH MATERIAL IS INDICATED ON DRAWINGS.

EXISTING ROOF DRAINS

1. AT EXISTING ROOF DRAIN (RD), INSPECT ROOF DRAIN ASSEMBLIES AT EXISTING ROOF DRAINS TO REMAIN. REPAIR AND REPLACE ITEMS AND CONNECTIONS TO ASSURE A WEATHERTIGHT CONDITION AFTER WORK IS COMPLETED. REMOVE AND REPLACE EXISTING CLAMPING RINGS, LUGS, CLAMPING DEVICES, STRAINERS, ETC. AND REPLACE WITH NEW ITEMS COMPATIBLE WITH EXISTING ASSEMBLY. PATCH DAMAGED EXISTING PIPE INSULATION AS REQUIRED FOR A COMPLETE ENCLOSURE OF DRAIN BODY AND STORM PIPING. AFTER NEW ROOF SYSTEM IS INSTALLED, CLEAN AND ROD EXISTING ROOF DRAIN LINES AND LEADERS FOR PROPER OPERATION FROM ROOF TO POINT OF DISCHARGE ONTO GRADE OR INTO STORM SEWER TO PROVIDE A COMPLETE AND PROPER FUNCTIONING SYSTEM TO INSURE POSITIVE DRAINAGE, TYP.

ROOFING NOTES

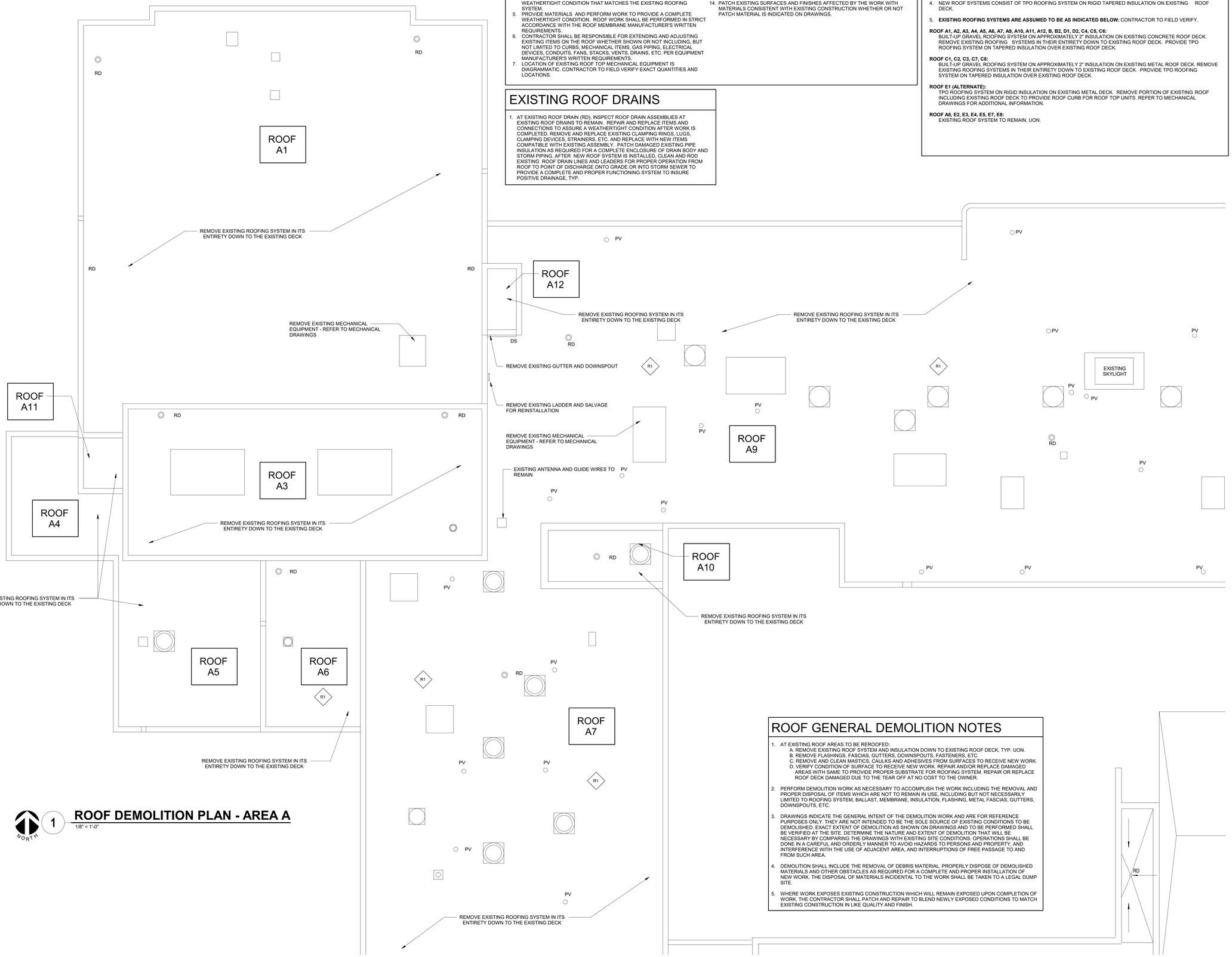
1. VERIFY THE OPERATING CONDITION OF EXISTING ROOFTOP EQUIPMENT TO REMAIN PRIOR TO THE START OF THE WORK, AND AFTER WORK IS COMPLETED. REPORT OBSERVED CONDITIONS IN WRITING TO THE ARCHITECT. EXISTING EQUIPMENT AFFECTED BY THE WORK WHICH IS NOT IN PROPER OPERATING CONDITION AFTER WORK IS COMPLETED SHALL BE REPAIRED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
2. TERMINATE COPINGS, FASCIAS, EXPANSION JOINTS, ETC. AS REQUIRED TO PROVIDE A WEATHERTIGHT CONNECTION BETWEEN ADJACENT SURFACES.
3. THE DESIGN INTENT OF THE PERIMENTER ROOF EDGE IS TO MAINTAIN A CONSTANT TOP OF METAL FASCIA ELEVATION. PROVIDE TAPERED EDGE STRIPS ALONG THE PERIMETER AS REQUIRED TO MAINTAIN A CONSTANT TOP OF METAL FASCIA ELEVATION.
4. NEW ROOF SYSTEMS CONSIST OF TPO ROOFING SYSTEM ON RIGID TAPERED INSULATION ON EXISTING ROOF DECK.
5. **EXISTING ROOFING SYSTEMS ARE ASSUMED TO BE AS INDICATED BELOW**; CONTRACTOR TO FIELD VERIFY.

ROOF A1, A2, A3, A4, A5, A6, A7, A9, A10, A11, A12, B, B2, D1, D2, C4, C5, C6:
BUILT-UP GRAVEL ROOFING SYSTEM ON APPROXIMATELY 2" INSULATION ON EXISTING CONCRETE ROOF DECK. REMOVE EXISTING ROOFING SYSTEMS IN THEIR ENTIRETY DOWN TO EXISTING ROOF DECK. PROVIDE TPO ROOFING SYSTEM ON TAPERED INSULATION OVER EXISTING ROOF DECK.

ROOF C1, C2, C3, C7, C8:
BUILT-UP GRAVEL ROOFING SYSTEM ON APPROXIMATELY 2" INSULATION ON EXISTING METAL ROOF DECK. REMOVE EXISTING ROOFING SYSTEMS IN THEIR ENTIRETY DOWN TO EXISTING ROOF DECK. PROVIDE TPO ROOFING SYSTEM ON TAPERED INSULATION OVER EXISTING ROOF DECK.

ROOF E1 (ALTERNATE):
TPO ROOFING SYSTEM ON RIGID INSULATION ON EXISTING METAL DECK. REMOVE PORTION OF EXISTING ROOF INCLUDING EXISTING ROOF DECK TO PROVIDE ROOF CURB FOR ROOF TOP UNITS. REFER TO MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.

ROOF A8, E2, E3, E4, E5, E7, E8:
EXISTING ROOF SYSTEM TO REMAIN, UON.



1 **ROOF DEMOLITION PLAN - AREA A**
1/8" = 1'-0"

NORTH

ROOF GENERAL DEMOLITION NOTES

1. AT EXISTING ROOF AREAS TO BE REROOFED:
   A. REMOVE EXISTING ROOF SYSTEM AND INSULATION DOWN TO EXISTING ROOF DECK, TYP. UON.
   B. REMOVE FLASHINGS, FASCIAS, GUTTERS, DOWNSPOUTS, FASTENERS, ETC.
   C. REMOVE AND CLEAN MASTICS, CAULKS AND ADHESIVES FROM SURFACES TO RECEIVE NEW WORK.
   D. VERIFY CONDITION OF SURFACE TO RECEIVE NEW WORK. REPAIR AND/OR REPLACE DAMAGED AREAS WITH SAME TO PROVIDE PROPER SUBSTRATE FOR ROOFING SYSTEM. REPAIR OR REPLACE ROOF DECK DAMAGED DUE TO THE TEAR OFF AT NO COST TO THE OWNER.
2. PERFORM DEMOLITION WORK AS NECESSARY TO ACCOMPLISH THE WORK INCLUDING THE REMOVAL AND PROPER DISPOSAL OF ITEMS WHICH ARE NOT TO REMAIN IN USE, INCLUDING BUT NOT NECESSARILY LIMITED TO ROOFING SYSTEM, BALLAST, MEMBRANE, INSULATION, FLASHING, METAL FASCIAS, GUTTERS, DOWNSPOUTS, ETC.
3. DRAWINGS INDICATE THE GENERAL INTENT OF THE DEMOLITION WORK AND ARE FOR REFERENCE PURPOSES ONLY. THEY ARE NOT INTENDED TO BE THE SOLE SOURCE OF EXISTING CONDITIONS TO BE DEMOLISHED. EXACT EXTENT OF DEMOLITION AS SHOWN ON DRAWINGS AND TO BE PERFORMED SHALL BE VERIFIED AT THE SITE. DETERMINE THE NATURE AND EXTENT OF DEMOLITION THAT WILL BE NECESSARY BY COMPARING THE DRAWINGS WITH EXISTING SITE CONDITIONS. OPERATIONS SHALL BE DONE IN A CAREFUL AND ORDERLY MANNER TO AVOID HAZARDS TO PERSONS AND PROPERTY, AND INTERFERENCE WITH THE USE OF ADJACENT AREA, AND INTERRUPTIONS OF FREE PASSAGE TO AND FROM SUCH AREA.
4. DEMOLITION SHALL INCLUDE THE REMOVAL OF DEBRIS MATERIAL. PROPERLY DISPOSE OF DEMOLISHED MATERIALS AND OTHER OBSTACLES AS REQUIRED FOR A COMPLETE AND PROPER INSTALLATION OF NEW WORK. THE DISPOSAL OF MATERIALS INCIDENTAL TO THE WORK SHALL BE TAKEN TO A LEGAL DUMP SITE.
5. WHERE WORK EXPOSES EXISTING CONSTRUCTION WHICH WILL REMAIN EXPOSED UPON COMPLETION OF WORK, THE CONTRACTOR SHALL PATCH AND REPAIR TO BLEND NEWLY EXPOSED CONDITIONS TO MATCH EXISTING CONSTRUCTION IN LIKE QUALITY AND FINISH.

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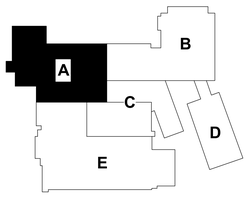

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Approved	**Approver**

SHEET TITLE
ROOF DEMOLITION PLAN - AREA A

SCALE
Scale: **As indicated**

SHEET NUMBER
D1.04A

GENERAL ROOF NOTES

1. EACH BIDDER SHALL VISIT THE SITE OF PROPOSED WORK AND FULLY ACQUAINT THEMSELVES WITH CONDITIONS RELATING TO CONSTRUCTION AND LABOR SO THAT THEY MAY FULLY UNDERSTAND THE FACILITIES, DIFFICULTIES, AND RESTRICTIONS AFFECTING THE COMPLETION OF THE WORK INCLUDED UNDER THE CONTRACT.
2. FIELD VERIFY AND COORDINATE ITEMS, DIMENSIONS, CONDITIONS, AND QUANTITIES, ETC. NOTIFY ARCHITECT OF ANY APPARENT DISCREPANCIES.
3. ITEMS INDICATED AS EXISTING ARE TO REMAIN. UON.
4. CONTRACTOR TO AVOID EXISTING ROOF AREAS WHERE NO WORK IS REQUIRED. DO NOT STAGE MATERIALS ON EXISTING ROOF AREAS. DAMAGE TO EXISTING ROOF AREAS CAUSED BY CONSTRUCTION SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO REPAIR OR REPLACE AND PROVIDE A WEATHERTIGHT CONDITION THAT MATCHES THE EXISTING ROOFING SYSTEM.
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7. LOCATION OF EXISTING ROOF TOP MECHANICAL EQUIPMENT IS DIAGRAMMATIC. CONTRACTOR TO FIELD VERIFY EXACT QUANTITIES AND LOCATIONS.
8. INSPECT EXISTING ROOF DECK AFTER TEAR-OFF AT ROOF AREAS TO BE REMOVED DOWN TO EXISTING ROOF DECK. NOTIFY ARCHITECT OF DAMAGED OR DETERIORATED ROOF DECK.
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10. REPLACE EXISTING DAMAGED WOOD NAILERS AS REQUIRED.
11. ROOFING DETAILS MUST MEET THE REQUIREMENTS OF THE ROOFING MANUFACTURE TO OBTAIN THE ROOFING WARRANTY AS SPECIFIED.
12. METAL ROOF EDGE SECUREMENT COMPONENTS SHALL MEET REQUIREMENTS OF ANSI/SPRI ES-1.
13. ADJUST EXISTING ROOF DRAIN HEIGHTS AS REQUIRED TO MEET NEW INSULATION HEIGHTS, VIF.
14. PATCH EXISTING SURFACES AND FINISHES AFFECTED BY THE WORK WITH MATERIALS CONSISTENT WITH EXISTING CONSTRUCTION WHETHER OR NOT PATCH MATERIAL IS INDICATED ON DRAWINGS.

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ROOF GENERAL DEMOLITION NOTES

1. AT EXISTING ROOF AREAS TO BE REROOFED:
   A. REMOVE EXISTING ROOF SYSTEM AND INSULATION DOWN TO EXISTING ROOF DECK, TYP. UON.
   B. REMOVE FLASHINGS, FASCIAS, GUTTERS, DOWNSPOUTS, FASTENERS, ETC.
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ROOFING NOTES

1. VERIFY THE OPERATING CONDITION OF EXISTING ROOFTOP EQUIPMENT TO REMAIN PRIOR TO THE START OF THE WORK, AND AFTER WORK IS COMPLETED. REPORT OBSERVED CONDITIONS IN WRITING TO THE ARCHITECT. EXISTING EQUIPMENT AFFECTED BY THE WORK WHICH IS NOT IN PROPER OPERATING CONDITION AFTER WORK IS COMPLETED SHALL BE REPAIRED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
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4. NEW ROOF SYSTEMS CONSIST OF TPO ROOFING SYSTEM ON RIGID TAPERED INSULATION ON EXISTING ROOF DECK.
5. **EXISTING ROOFING SYSTEMS ARE ASSUMED TO BE AS INDICATED BELOW.** CONTRACTOR TO FIELD VERIFY.

ROOF A1, A2, A3, A4, A5, A6, A7, A9, A10, A11, A12 B, B2, D1, D2, C4, C5, C6:
BUILT-UP GRAVEL ROOFING SYSTEM ON APPROXIMATELY 2" INSULATION ON EXISTING CONCRETE ROOF DECK. REMOVE EXISTING ROOFING SYSTEMS IN THEIR ENTIRETY DOWN TO EXISTING ROOF DECK. PROVIDE TPO ROOFING SYSTEM ON TAPERED INSULATION OVER EXISTING ROOF DECK.

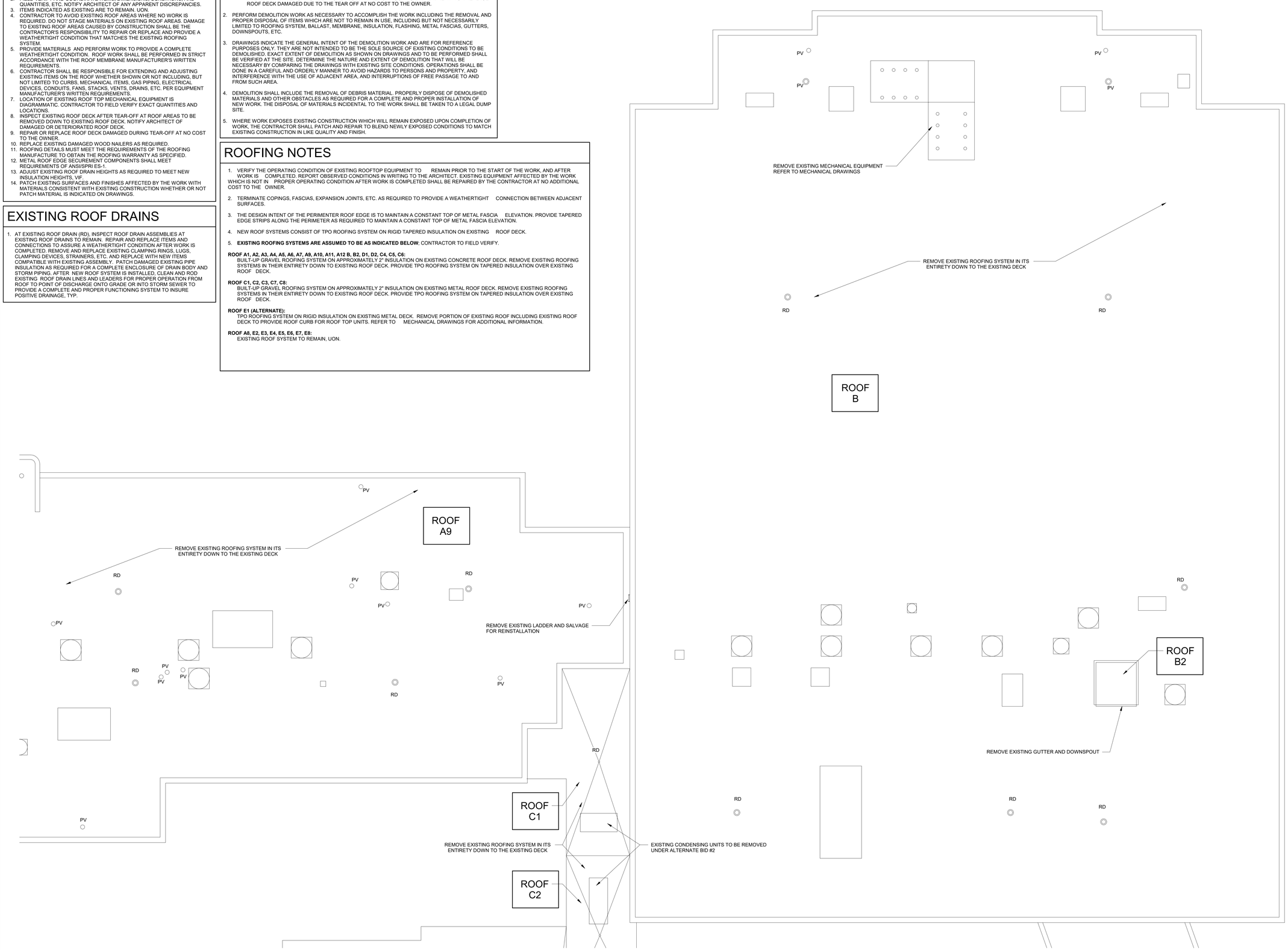
ROOF C1, C2, C3, C7, C8:
BUILT-UP GRAVEL ROOFING SYSTEM ON APPROXIMATELY 2" INSULATION ON EXISTING METAL ROOF DECK. REMOVE EXISTING ROOFING SYSTEMS IN THEIR ENTIRETY DOWN TO EXISTING ROOF DECK. PROVIDE TPO ROOFING SYSTEM ON TAPERED INSULATION OVER EXISTING ROOF DECK.

ROOF E1 (ALTERNATE):
TPO ROOFING SYSTEM ON RIGID INSULATION ON EXISTING METAL DECK. REMOVE PORTION OF EXISTING ROOF INCLUDING EXISTING ROOF DECK TO PROVIDE ROOF CURB FOR ROOF TOP UNITS. REFER TO MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.

ROOF A8, E2, E3, E4, E5, E6, E7, E8:
EXISTING ROOF SYSTEM TO REMAIN, UON.

GENERAL NOTES

1. REFER TO MECHANICAL AND ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.



1 **ROOF DEMOLITION PLAN - AREA B**
1/8" = 1'-0"

1/28/2022 5:52:05 PM ESSER HVAC Improvements - East High School
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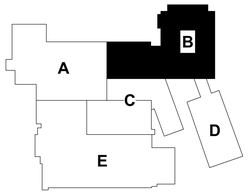

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Checked	**Checker**
Approved	**Approver**

SHEET TITLE
ROOF DEMOLITION PLAN - AREA B

SCALE
Scale: **As indicated**

SHEET NUMBER
D1.04B

GENERAL ROOF NOTES

1. EACH BIDDER SHALL VISIT THE SITE OF PROPOSED WORK AND FULLY ACQUAINT THEMSELVES WITH CONDITIONS RELATING TO CONSTRUCTION AND LABOR SO THAT THEY MAY FULLY UNDERSTAND THE FACILITIES, DIFFICULTIES, AND RESTRICTIONS AFFECTING THE COMPLETION OF THE WORK INCLUDED UNDER THE CONTRACT.
2. FIELD VERIFY AND COORDINATE ITEMS, DIMENSIONS, CONDITIONS, AND QUANTITIES, ETC. NOTIFY ARCHITECT OF ANY APPARENT DISCREPANCIES.
3. ITEMS INDICATED AS EXISTING ARE TO REMAIN. UON.
4. CONTRACTOR TO AVOID EXISTING ROOF AREAS WHERE NO WORK IS REQUIRED. DO NOT STAGE MATERIALS ON EXISTING ROOF AREAS. DAMAGE TO EXISTING ROOF AREAS CAUSED BY CONSTRUCTION SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO REPAIR OR REPLACE AND PROVIDE A WEATHERTIGHT CONDITION THAT MATCHES THE EXISTING ROOFING SYSTEM.
5. PROVIDE MATERIALS AND PERFORM WORK TO PROVIDE A COMPLETE WEATHERTIGHT CONDITION. ROOF WORK SHALL BE PERFORMED IN STRICT ACCORDANCE WITH THE ROOF MEMBRANE MANUFACTURER'S WRITTEN REQUIREMENTS.
6. CONTRACTOR SHALL BE RESPONSIBLE FOR EXTENDING AND ADJUSTING EXISTING ITEMS ON THE ROOF WHETHER SHOWN OR NOT INCLUDING, BUT NOT LIMITED TO CURBS, MECHANICAL ITEMS, GAS PIPING, ELECTRICAL DEVICES, CONDUITS, FANS, STACKS, VENTS, DRAINS, ETC. PER EQUIPMENT MANUFACTURER'S WRITTEN REQUIREMENTS.
7. LOCATION OF EXISTING ROOF TOP MECHANICAL EQUIPMENT IS DIAGRAMMATIC. CONTRACTOR TO FIELD VERIFY EXACT QUANTITIES AND LOCATIONS.
8. INSPECT EXISTING ROOF DECK AFTER TEAR-OFF AT ROOF AREAS TO BE REMOVED DOWN TO EXISTING ROOF DECK. NOTIFY ARCHITECT OF DAMAGED OR DETERIORATED ROOF DECK.
9. REPAIR OR REPLACE ROOF DECK DAMAGED DURING TEAR-OFF AT NO COST TO THE OWNER.
10. REPLACE EXISTING DAMAGED WOOD NAILERS AS REQUIRED.
11. ROOFING DETAILS MUST MEET THE REQUIREMENTS OF THE ROOFING MANUFACTURE TO OBTAIN THE ROOFING WARRANTY AS SPECIFIED.
12. METAL ROOF EDGE SECUREMENT COMPONENTS SHALL MEET REQUIREMENTS OF ANSI/SPRI ES-1.
13. ADJUST EXISTING ROOF DRAIN HEIGHTS AS REQUIRED TO MEET NEW INSULATION HEIGHTS, VIF.
14. PATCH EXISTING SURFACES AND FINISHES AFFECTED BY THE WORK WITH MATERIALS CONSISTENT WITH EXISTING CONSTRUCTION WHETHER OR NOT PATCH MATERIAL IS INDICATED ON DRAWINGS.

EXISTING ROOF DRAINS

1. AT EXISTING ROOF DRAIN (RD), INSPECT ROOF DRAIN ASSEMBLIES AT EXISTING ROOF DRAINS TO REMAIN. REPAIR AND REPLACE ITEMS AND CONNECTIONS TO ASSURE A WEATHERTIGHT CONDITION AFTER WORK IS COMPLETED. REMOVE AND REPLACE EXISTING CLAMPING RINGS, LUGS, CLAMPING DEVICES, STRAINERS, ETC. AND REPLACE WITH NEW ITEMS COMPATIBLE WITH EXISTING ASSEMBLY. PATCH DAMAGED EXISTING PIPE INSULATION AS REQUIRED FOR A COMPLETE ENCLOSURE OF DRAIN BODY AND STORM PIPING AFTER NEW ROOF SYSTEM IS INSTALLED, CLEAN AND ROD EXISTING ROOF DRAIN LINES AND LEADERS FOR PROPER OPERATION FROM ROOF TO POINT OF DISCHARGE ONTO GRADE OR INTO STORM SEWER TO PROVIDE A COMPLETE AND PROPER FUNCTIONING SYSTEM TO INSURE POSITIVE DRAINAGE, TYP.

ROOF GENERAL DEMOLITION NOTES

1. AT EXISTING ROOF AREAS TO BE REROOFED:
   A. REMOVE EXISTING ROOF SYSTEM AND INSULATION DOWN TO EXISTING ROOF DECK, TYP. UON.
   B. REMOVE FLASHINGS, FASCIAS, GUTTERS, DOWNSPOUTS, FASTENERS, ETC.
   C. REMOVE AND CLEAN MASTICS, CAULKS AND ADHESIVES FROM SURFACES TO RECEIVE NEW WORK.
   D. VERIFY CONDITION OF SURFACE TO RECEIVE NEW WORK. REPAIR AND/OR REPLACE DAMAGED AREAS WITH SAME TO PROVIDE PROPER SUBSTRATE FOR ROOFING SYSTEM. REPAIR OR REPLACE ROOF DECK DAMAGED DUE TO THE TEAR OFF AT NO COST TO THE OWNER.
2. PERFORM DEMOLITION WORK AS NECESSARY TO ACCOMPLISH THE WORK INCLUDING THE REMOVAL AND PROPER DISPOSAL OF ITEMS WHICH ARE NOT TO REMAIN IN USE, INCLUDING BUT NOT NECESSARILY LIMITED TO ROOFING SYSTEM, BALLAST, MEMBRANE, INSULATION, FLASHING, METAL FASCIAS, GUTTERS, DOWNSPOUTS, ETC.
3. DRAWINGS INDICATE THE GENERAL INTENT OF THE DEMOLITION WORK AND ARE FOR REFERENCE PURPOSES ONLY. THEY ARE NOT INTENDED TO BE THE SOLE SOURCE OF EXISTING CONDITIONS TO BE DEMOLISHED. EXACT EXTENT OF DEMOLITION AS SHOWN ON DRAWINGS AND TO BE PERFORMED SHALL BE VERIFIED AT THE SITE. DETERMINE THE NATURE AND EXTENT OF DEMOLITION THAT WILL BE NECESSARY BY COMPARING THE DRAWINGS WITH EXISTING SITE CONDITIONS. OPERATIONS SHALL BE DONE IN A CAREFUL AND ORDERLY MANNER TO AVOID HAZARDS TO PERSONS AND PROPERTY, AND INTERFERENCE WITH THE USE OF ADJACENT AREA, AND INTERRUPTIONS OF FREE PASSAGE TO AND FROM SUCH AREA.
4. DEMOLITION SHALL INCLUDE THE REMOVAL OF DEBRIS MATERIAL. PROPERLY DISPOSE OF DEMOLISHED MATERIALS AND OTHER OBSTACLES AS REQUIRED FOR A COMPLETE AND PROPER INSTALLATION OF NEW WORK. THE DISPOSAL OF MATERIALS INCIDENTAL TO THE WORK SHALL BE TAKEN TO A LEGAL DUMP SITE.
5. WHERE WORK EXPOSES EXISTING CONSTRUCTION WHICH WILL REMAIN EXPOSED UPON COMPLETION OF WORK, THE CONTRACTOR SHALL PATCH AND REPAIR TO BLEND NEWLY EXPOSED CONDITIONS TO MATCH EXISTING CONSTRUCTION IN LIKE QUALITY AND FINISH.

ROOFING NOTES

1. VERIFY THE OPERATING CONDITION OF EXISTING ROOFTOP EQUIPMENT TO REMAIN PRIOR TO THE START OF THE WORK, AND AFTER WORK IS COMPLETED. REPORT OBSERVED CONDITIONS IN WRITING TO THE ARCHITECT. EXISTING EQUIPMENT AFFECTED BY THE WORK WHICH IS NOT IN PROPER OPERATING CONDITION AFTER WORK IS COMPLETED SHALL BE REPAIRED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
2. TERMINATE COPINGS, FASCIAS, EXPANSION JOINTS, ETC. AS REQUIRED TO PROVIDE A WEATHERTIGHT CONNECTION BETWEEN ADJACENT SURFACES.
3. THE DESIGN INTENT OF THE PERIMENTER ROOF EDGE IS TO MAINTAIN A CONSTANT TOP OF METAL FASCIA ELEVATION. PROVIDE TAPERED EDGE STRIPS ALONG THE PERIMETER AS REQUIRED TO MAINTAIN A CONSTANT TOP OF METAL FASCIA ELEVATION.
4. NEW ROOF SYSTEMS CONSIST OF TPO ROOFING SYSTEM ON RIGID TAPERED INSULATION ON EXISTING ROOF DECK.
5. **EXISTING ROOFING SYSTEMS ARE ASSUMED TO BE AS INDICATED BELOW**; CONTRACTOR TO FIELD VERIFY.

ROOF A1, A2, A3, A4, A5, A6, A7, A9, A10, A11, A12 B, B2, D1, D2, C4, C5, C6:
BUILT-UP GRAVEL ROOFING SYSTEM ON APPROXIMATELY 2" INSULATION ON EXISTING CONCRETE ROOF DECK. REMOVE EXISTING ROOFING SYSTEMS IN THEIR ENTIRETY DOWN TO EXISTING ROOF DECK. PROVIDE TPO ROOFING SYSTEM ON TAPERED INSULATION OVER EXISTING ROOF DECK.

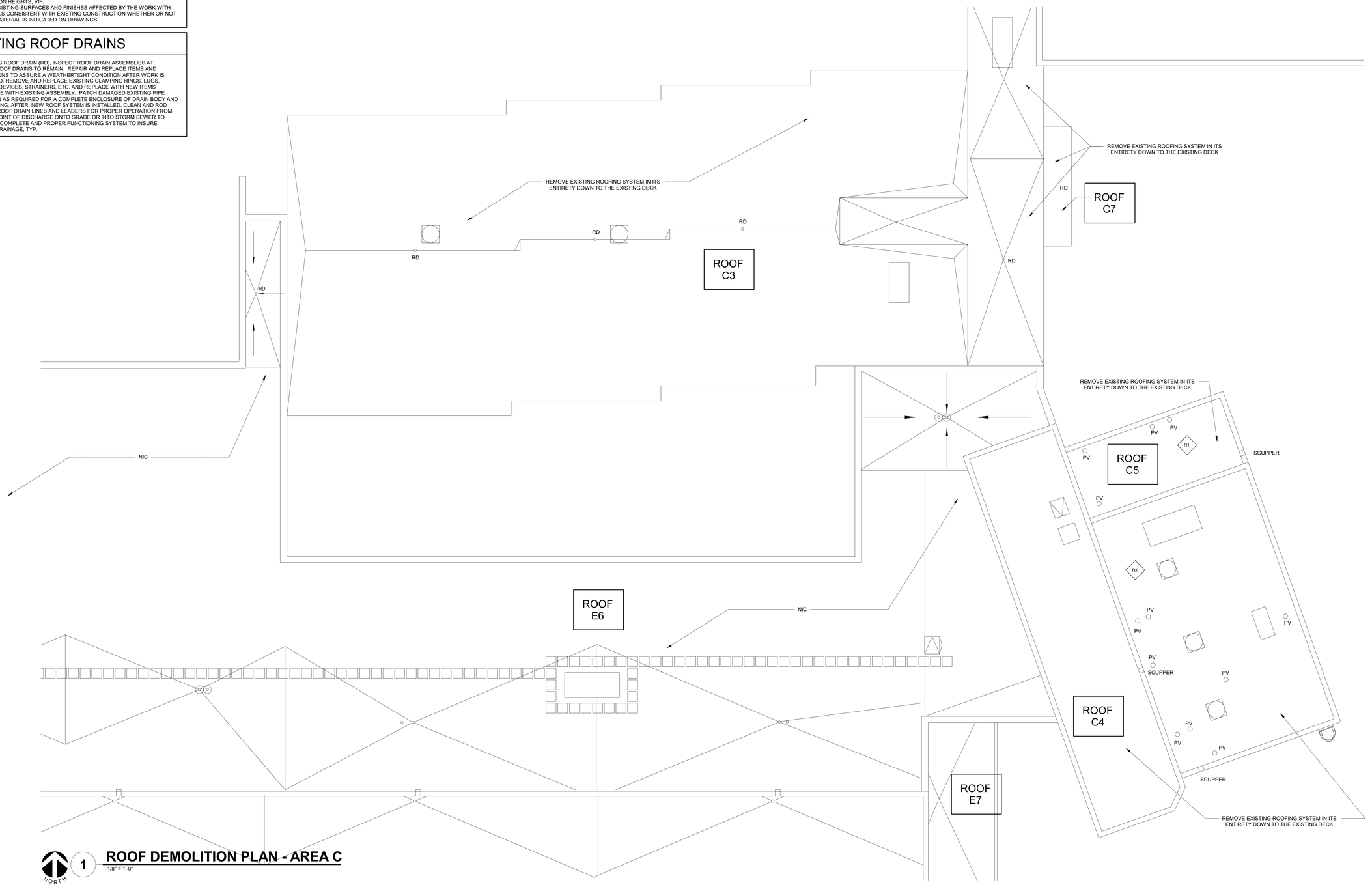
ROOF C1, C2, C3, C7, C8:
BUILT-UP GRAVEL ROOFING SYSTEM ON APPROXIMATELY 2" INSULATION ON EXISTING METAL ROOF DECK. REMOVE EXISTING ROOFING SYSTEMS IN THEIR ENTIRETY DOWN TO EXISTING ROOF DECK. PROVIDE TPO ROOFING SYSTEM ON TAPERED INSULATION OVER EXISTING ROOF DECK.

ROOF E1 (ALTERNATE):
TPO ROOFING SYSTEM ON RIGID INSULATION ON EXISTING METAL DECK. REMOVE PORTION OF EXISTING ROOF INCLUDING EXISTING ROOF DECK TO PROVIDE ROOF CURB FOR ROOF TOP UNITS. REFER TO MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.

ROOF A8, E2, E3, E4, E5, E6, E7, E8:
EXISTING ROOF SYSTEM TO REMAIN, UON.

GENERAL NOTES

1. REFER TO MECHANICAL AND ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.



1 **ROOF DEMOLITION PLAN - AREA C**
1/8" = 1'-0"

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KEY PLAN

KEYPLAN

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REFERENCE SCALE IN INCHES
0 1 2

REVISIONS

No.	Date	Revision / Issue

SHEET INFORMATION

Issue	**BID DOCUMENTS**
Date	**01-28-2022**
Job Number	**21011.40**
Drawn	**Author**
Checked	**Checker**
Approved	**Approver**

SHEET TITLE
ROOF DEMOLITION PLAN - AREA C

SCALE
Scale: **As indicated**

SHEET NUMBER
D1.04C

GENERAL ROOF NOTES

1. EACH BIDDER SHALL VISIT THE SITE OF PROPOSED WORK AND FULLY ACQUAINT THEMSELVES WITH CONDITIONS RELATING TO CONSTRUCTION AND LABOR SO THAT THEY MAY FULLY UNDERSTAND THE FACILITIES, DIFFICULTIES, AND RESTRICTIONS AFFECTING THE COMPLETION OF THE WORK INCLUDED UNDER THE CONTRACT.
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5. **EXISTING ROOFING SYSTEMS ARE ASSUMED TO BE AS INDICATED BELOW**, CONTRACTOR TO FIELD VERIFY.

ROOF A1, A2, A3, A4, A5, A6, A7, A9, A10, A11, A12 B, B2, D1, D2, C4, C5, C6:
BUILT-UP GRAVEL ROOFING SYSTEM ON APPROXIMATELY 2" INSULATION ON EXISTING CONCRETE ROOF DECK. REMOVE EXISTING ROOFING SYSTEMS IN THEIR ENTIRETY DOWN TO EXISTING ROOF DECK. PROVIDE TPO ROOFING SYSTEM ON TAPERED INSULATION OVER EXISTING ROOF DECK.

ROOF C1, C2, C3, C7, C8:
BUILT-UP GRAVEL ROOFING SYSTEM ON APPROXIMATELY 2" INSULATION ON EXISTING METAL ROOF DECK. REMOVE EXISTING ROOFING SYSTEMS IN THEIR ENTIRETY DOWN TO EXISTING ROOF DECK. PROVIDE TPO ROOFING SYSTEM ON TAPERED INSULATION OVER EXISTING ROOF DECK.

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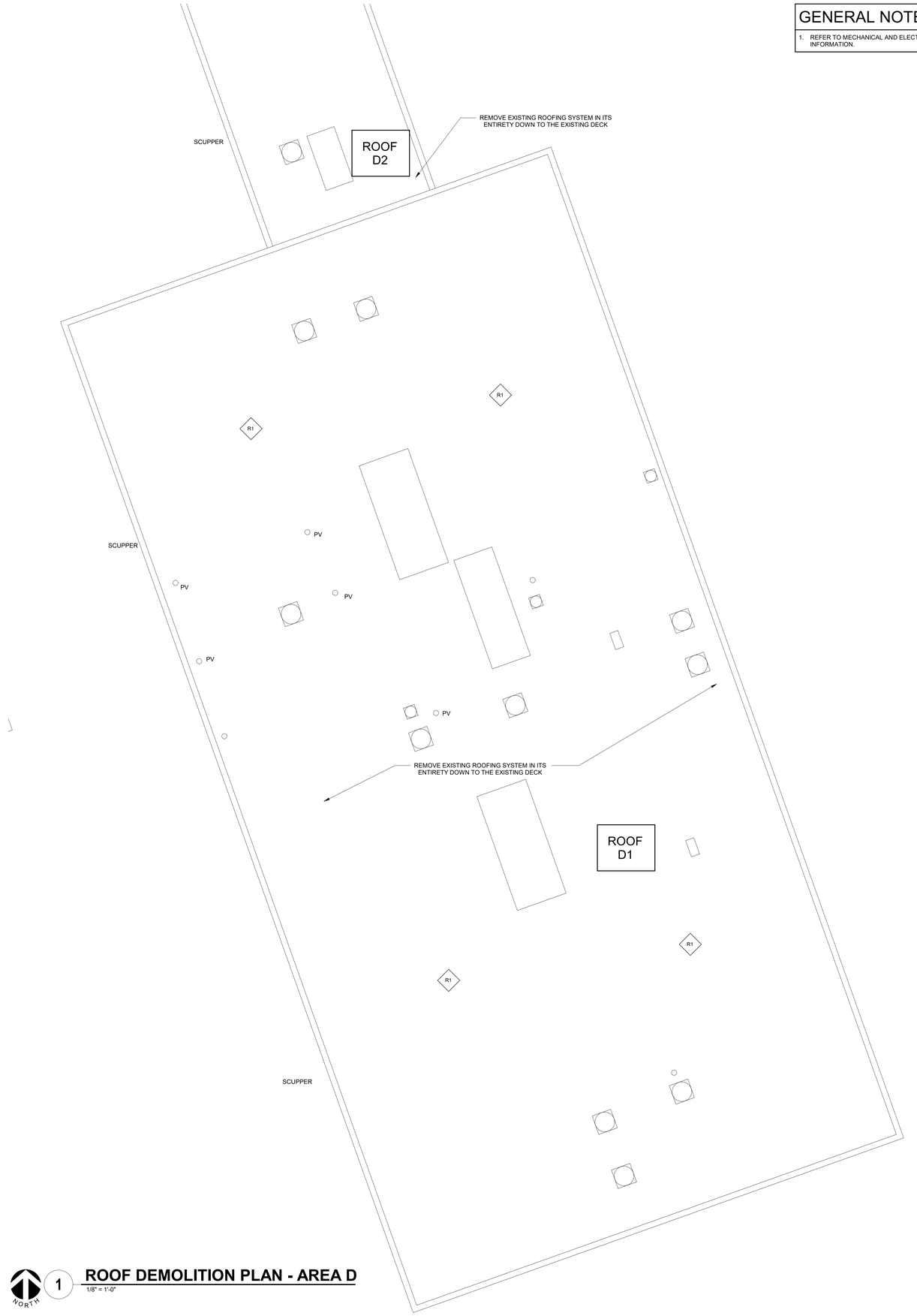
ROOF A8, E2, E3, E4, E5, E6, E7, E8:
EXISTING ROOF SYSTEM TO REMAIN, UON.



1 **ROOF DEMOLITION PLAN - AREA D**
1/8" = 1'-0"

NORTH

GENERAL NOTES

1. REFER TO MECHANICAL AND ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.

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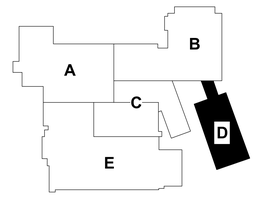
KEY PLAN



KEYPLAN

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REFERENCE SCALE IN INCHES
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REVISIONS

No.	Date	Revision / Issue

SHEET INFORMATION

Issue	**BID DOCUMENTS**
Date	**01-28-2022**
Job Number	**21011.40**
Drawn	**Author**
Checked	**Checker**
Approved	**Approver**

SHEET TITLE
ROOF DEMOLITION PLAN - AREA D

SCALE
Scale: **As indicated**

SHEET NUMBER
D1.04D

GENERAL ROOF NOTES

1. EACH BIDDER SHALL VISIT THE SITE OF PROPOSED WORK AND FULLY ACQUAINT THEMSELVES WITH CONDITIONS RELATING TO CONSTRUCTION AND LABOR SO THAT THEY MAY FULLY UNDERSTAND THE FACILITIES, DIFFICULTIES, AND RESTRICTIONS AFFECTING THE COMPLETION OF THE WORK INCLUDED UNDER THE CONTRACT.
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3. ITEMS INDICATED AS EXISTING ARE TO REMAIN. UON.
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ROOF GENERAL DEMOLITION NOTES

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ROOFING NOTES

1. VERIFY THE OPERATING CONDITION OF EXISTING ROOFTOP EQUIPMENT TO REMAIN PRIOR TO THE START OF THE WORK, AND AFTER WORK IS COMPLETED. REPORT OBSERVED CONDITIONS IN WRITING TO THE ARCHITECT. EXISTING EQUIPMENT AFFECTED BY THE WORK WHICH IS NOT IN PROPER OPERATING CONDITION AFTER WORK IS COMPLETED SHALL BE REPAIRED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
2. TERMINATE COPINGS, FASCIAS, EXPANSION JOINTS, ETC. AS REQUIRED TO PROVIDE A WEATHERTIGHT CONNECTION BETWEEN ADJACENT SURFACES.
3. THE DESIGN INTENT OF THE PERIMENTER ROOF EDGE IS TO MAINTAIN A CONSTANT TOP OF METAL FASCIA ELEVATION. PROVIDE TAPERED EDGE STRIPS ALONG THE PERIMETER AS REQUIRED TO MAINTAIN A CONSTANT TOP OF METAL FASCIA ELEVATION.
4. NEW ROOF SYSTEMS CONSIST OF TPO ROOFING SYSTEM ON RIGID TAPERED INSULATION ON EXISTING ROOF DECK.
5. **EXISTING ROOFING SYSTEMS ARE ASSUMED TO BE AS INDICATED BELOW**; CONTRACTOR TO FIELD VERIFY.

ROOF A1, A2, A3, A4, A5, A6, A7, A9, A10, A11, A12 B, B2, D1, D2, C4, C5, C6:
BUILT-UP GRAVEL ROOFING SYSTEM ON APPROXIMATELY 2" INSULATION ON EXISTING CONCRETE ROOF DECK. REMOVE EXISTING ROOFING SYSTEMS IN THEIR ENTIRETY DOWN TO EXISTING ROOF DECK. PROVIDE TPO ROOFING SYSTEM ON TAPERED INSULATION OVER EXISTING ROOF DECK.

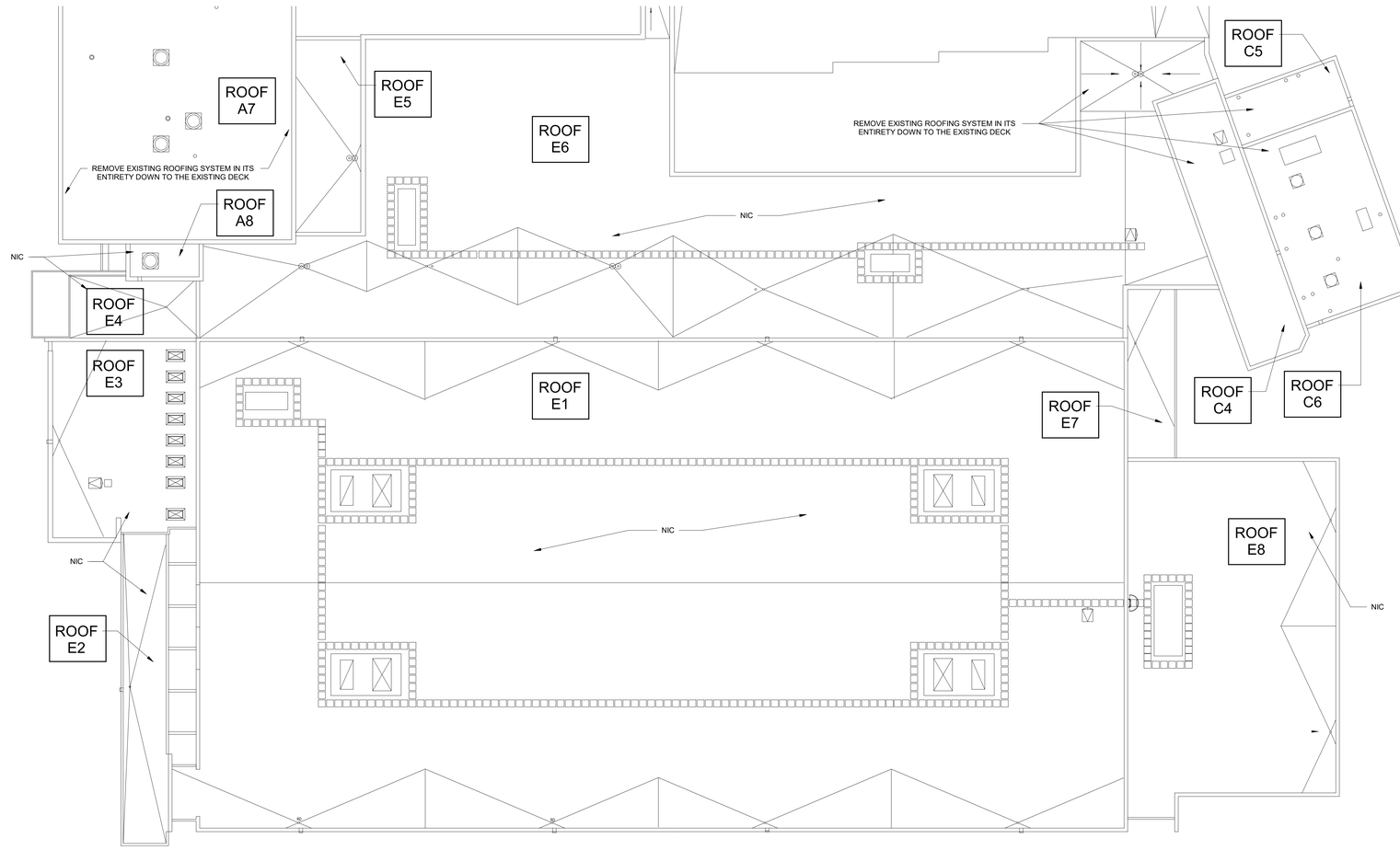
ROOF C1, C2, C3, C7, C8:
BUILT-UP GRAVEL ROOFING SYSTEM ON APPROXIMATELY 2" INSULATION ON EXISTING METAL ROOF DECK. REMOVE EXISTING ROOFING SYSTEMS IN THEIR ENTIRETY DOWN TO EXISTING ROOF DECK. PROVIDE TPO ROOFING SYSTEM ON TAPERED INSULATION OVER EXISTING ROOF DECK.

ROOF E1 (ALTERNATE):
TPO ROOFING SYSTEM ON RIGID INSULATION ON EXISTING METAL DECK. REMOVE PORTION OF EXISTING ROOF INCLUDING EXISTING ROOF DECK TO PROVIDE ROOF CURB FOR ROOF TOP UNITS. REFER TO MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.

ROOF A8, E2, E3, E4, E5, E6, E7, E8:
EXISTING ROOF SYSTEM TO REMAIN, UON.

GENERAL NOTES

1. REFER TO MECHANICAL AND ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.



1 NORTH

ROOF DEMOLITION PLAN - AREA E

1/16" = 1'-0"

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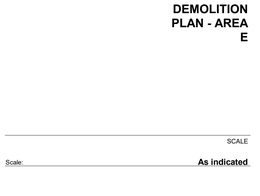
KEY PLAN



KEYPLAN

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REVISIONS

No.	Date	Revision / Issue

SHEET INFORMATION

Issue	**BID DOCUMENTS**
Date	**01-28-2022**
Job Number	**21011.40**
Drawn	**Author**
Checked	**Checker**
Approved	**Approver**

SHEET TITLE

ROOF DEMOLITION PLAN - AREA E

SCALE

Scale: **As indicated**

SHEET NUMBER

D1.04E

NEW WORK KEY NOTES

1 NEW HM 42" DOOR.	8 PATCH EXISTING FINISH FLOOR TO MATCH EXISTING IN COLOR, TEXTURE, FINISH, AND SIZE.
2 NEW 8" CMU WALL WITH DOOR TO SEAL OFF RETURN AIR TUNNEL.	9 PATCH, PREP, AND PAINT EXISTING MASONRY WALL TO MATCH ADJACENT SURFACE.
3 PATCH CONCRETE GRADE AFTER INSTALL OF NEW ELECTRICAL SERVICE CONDUITS.	10 WHERE PIPING AND/OR DUCTWORK WAS REMOVED INFILL HOLE WHERE PIPING AND/OR DUCTWORK WAS REMOVED WITH FULL MASONRY - MATCH THICKNESS AND COURSING. WHERE INFILL IS EXPOSED AND VISIBLE, PAINT TO MATCH EXISTING.
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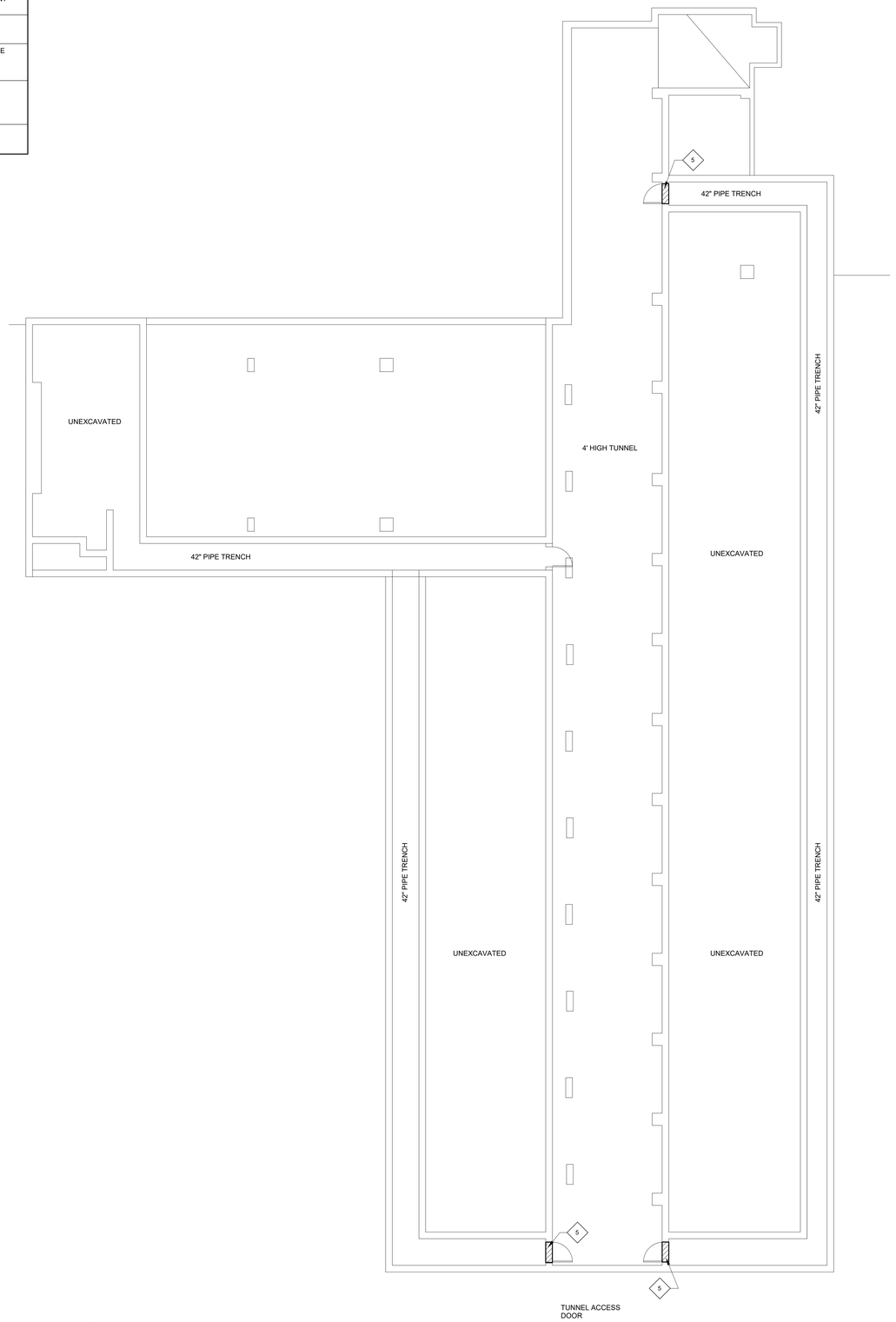
7 PATCH, PREP, AND PAINT EXISTING HOLE WHERE PIPING AND/OR DUCTWORK WAS REMOVED TO MATCH EXISTING ADJACENT SURFACE.	14 SEAL OFF DOOR OPENING FOR NEW PIPE CHASE.

GENERAL NOTES

1. FOR THE REMOVAL OF MECHANICAL DUCTWORK AND PIPING, REFER TO MECHANICAL DRAWINGS.

LEGEND

- DEMOLITION WORK
- NEW WORK



NORTH

1 **SUBFLOOR PLAN - AREA A**

1/8" = 1'-0"

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KEY PLAN

KEYPLAN

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Checked	**Checker**
Approved	**Approver**

SHEET TITLE

SUBFLOOR - AREA A

SCALE

Scale: **As indicated**

SHEET NUMBER

A0.00A

GENERAL NOTES

1. FOR THE REMOVAL OF MECHANICAL DUCTWORK AND PIPING, REFER TO MECHANICAL DRAWINGS.

LEGEND

- DEMOLITION WORK
- NEW WORK

NEW WORK KEY NOTES

1 NEW HM 42" DOOR.	8 PATCH EXISTING FINISH FLOOR TO MATCH EXISTING IN COLOR, TEXTURE, FINISH, AND SIZE.
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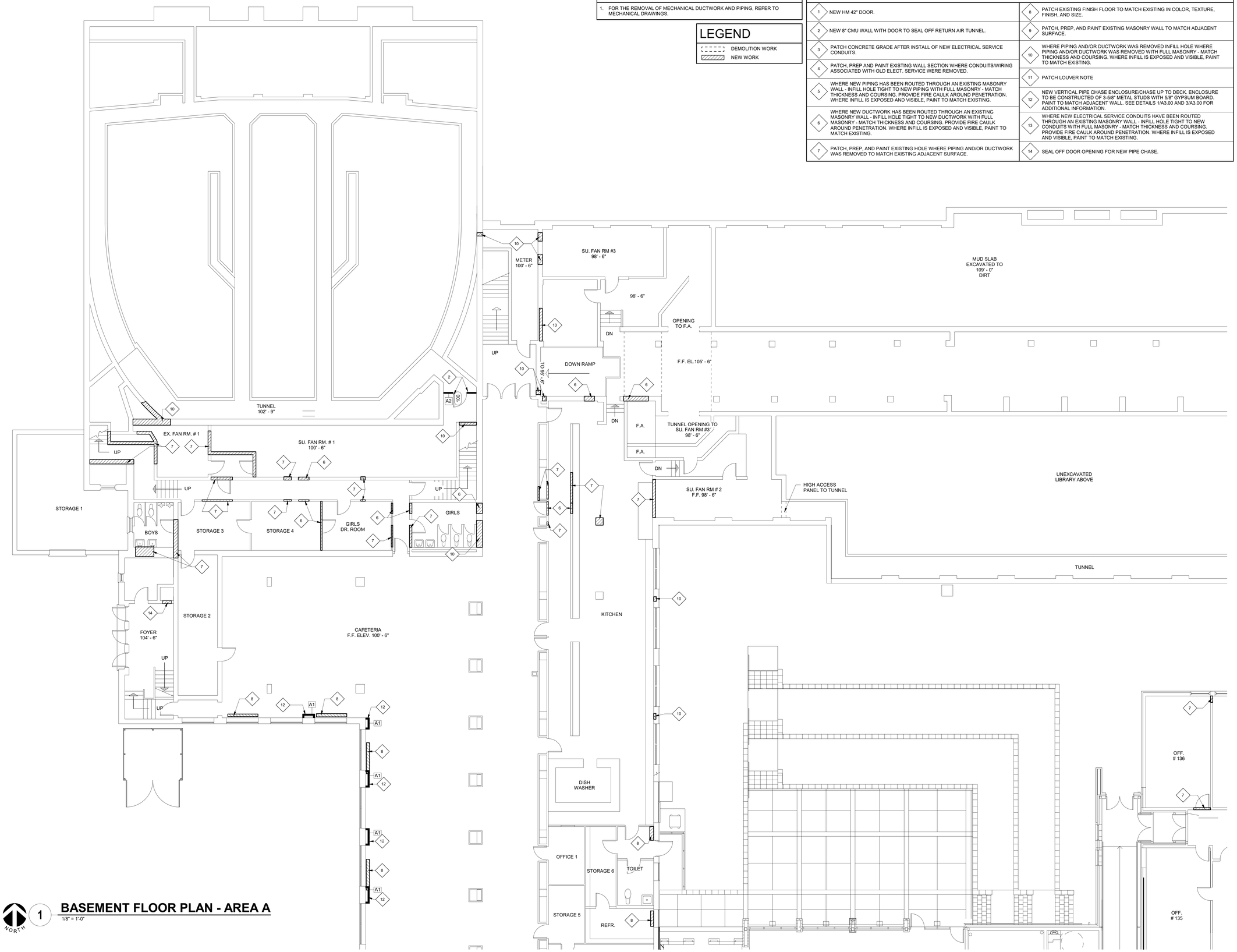

1 **BASEMENT FLOOR PLAN - AREA A**
1/8" = 1'-0"

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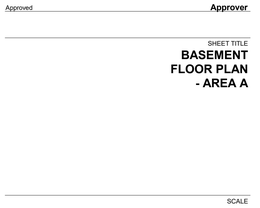

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Checked	**Checker**
Approved	**Approver**

SHEET TITLE

BASEMENT FLOOR PLAN - AREA A

SCALE

Scale: **As indicated**

SHEET NUMBER

A1.00A

NEW WORK KEY NOTES

1 NEW HM 42" DOOR.	8 PATCH EXISTING FINISH FLOOR TO MATCH EXISTING IN COLOR, TEXTURE, FINISH, AND SIZE.
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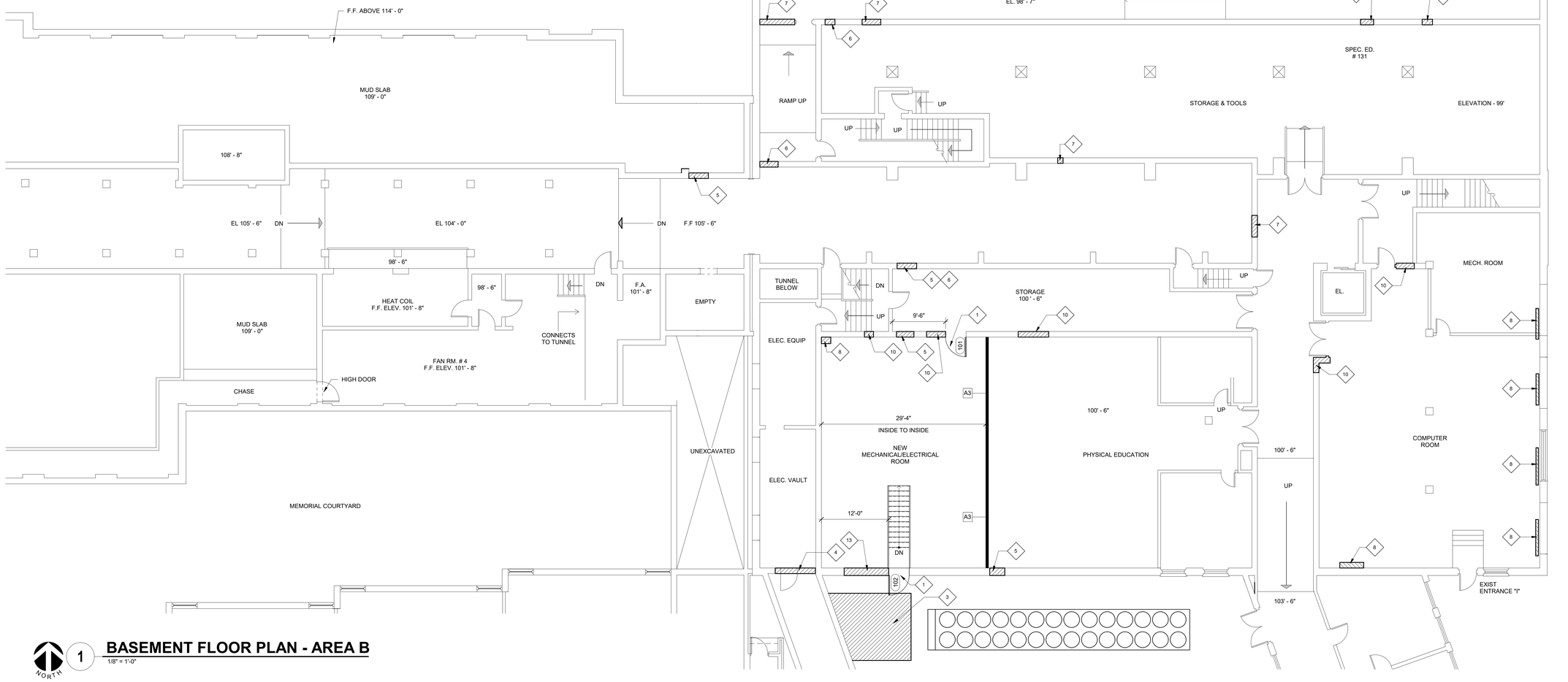
LEGEND

- DEMOLITION WORK
- NEW WORK



1 **BASEMENT FLOOR PLAN - AREA B**

1/8" = 1'-0"

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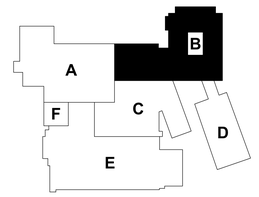
KEY PLAN



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Drawn	**Author**
Checked	**Checker**
Approved	**Approver**

SHEET TITLE

BASEMENT FLOOR PLAN - AREA B

SCALE

Scale: **As indicated**

SHEET NUMBER

A1.00B

GENERAL NOTES

1. FOR THE REMOVAL OF MECHANICAL DUCTWORK AND PIPING, REFER TO MECHANICAL DRAWINGS.

LEGEND

- DEMOLITION WORK
- NEW WORK

NEW WORK KEY NOTES

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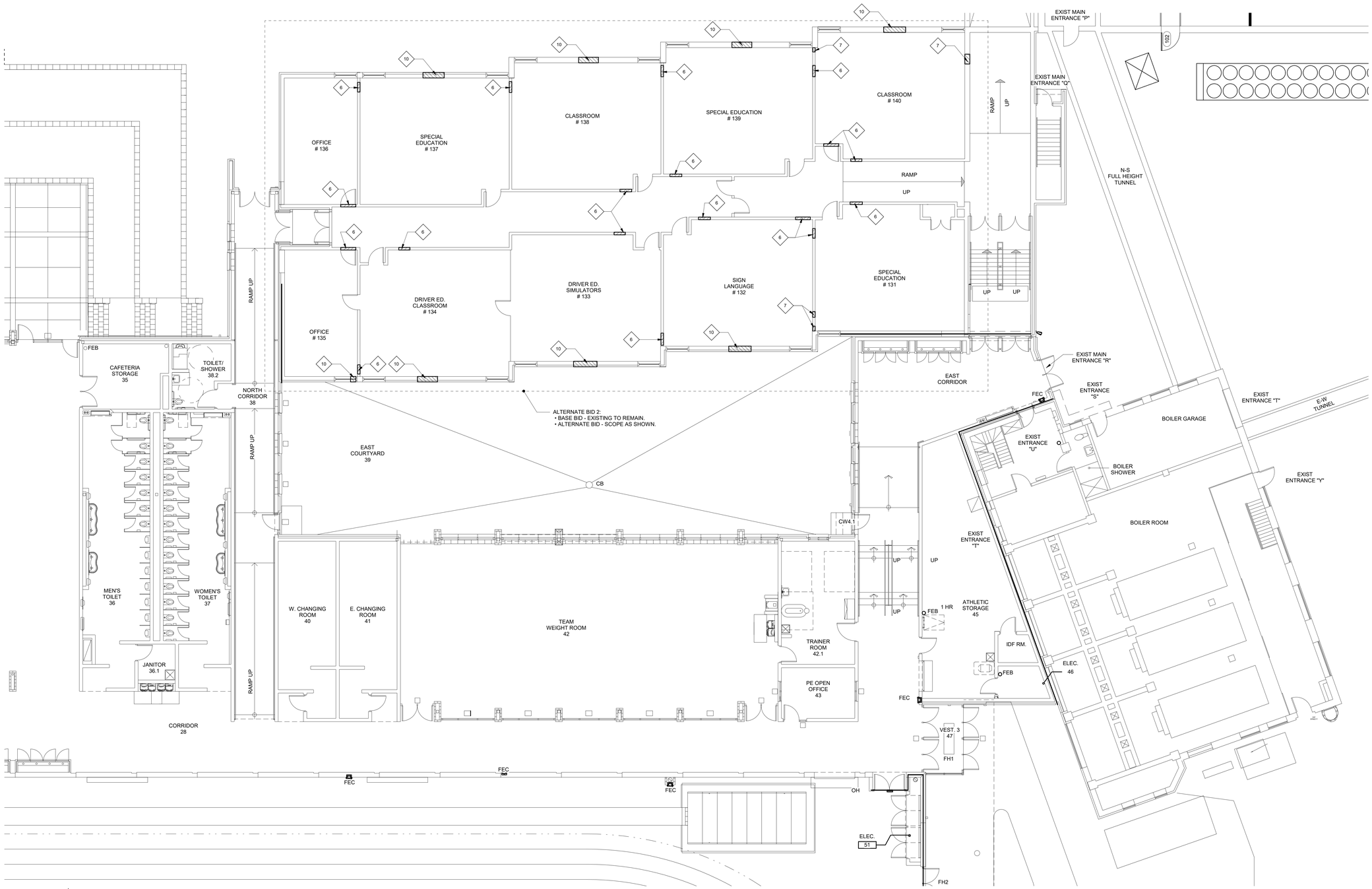

1 NORTH

BASEMENT FLOOR PLAN - AREA C

1/8" = 1'-0"

21011.40 1/28/2022 5:47:19 PM ESSER HVAC Improvements - East High School

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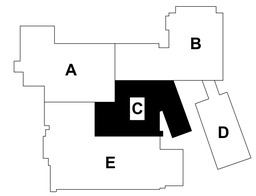
KEY PLAN



KEYPLAN

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Checked	**Checker**
Approved	**Approver**

SHEET TITLE

BASEMENT FLOOR PLAN - AREA C

SCALE

Scale: **As indicated**

SHEET NUMBER

A1.00C

NEW WORK KEY NOTES

1 NEW HM 42" DOOR.	8 PATCH EXISTING FINISH FLOOR TO MATCH EXISTING IN COLOR, TEXTURE, FINISH, AND SIZE.
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LEGEND

- DEMOLITION WORK
- NEW WORK

1 **BASEMENT FLOOR PLAN - AREA D**
1/8" = 1'-0"

NORTH

21011.40 1/28/2022 5:47:23 PM ESSER HVAC Improvements - East High School

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CONSULTANT

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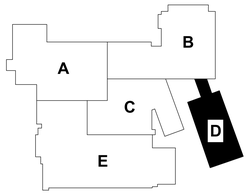
KEY PLAN



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REVISIONS

No.	Date	Revision / Issue

SHEET INFORMATION

Issue	**BID DOCUMENTS**
Date	**01-28-2022**
Job Number	**21011.40**
Drawn	**Author**
Checked	**Checker**
Approved	**Approver**

SHEET TITLE

BASMENT FLOOR PLAN - AREA D

SCALE

Scale: **As indicated**

SHEET NUMBER

A1.00D

GENERAL NOTES

1. FOR THE REMOVAL OF MECHANICAL DUCTWORK AND PIPING, REFER TO MECHANICAL DRAWINGS.

LEGEND

- DEMOLITION WORK
- NEW WORK

NEW WORK KEY NOTES

1 NEW HM 42" DOOR.	8 PATCH EXISTING FINISH FLOOR TO MATCH EXISTING IN COLOR, TEXTURE, FINISH, AND SIZE.
2 NEW 8" CMU WALL WITH DOOR TO SEAL OFF RETURN AIR TUNNEL.	9 PATCH, PREP, AND PAINT EXISTING MASONRY WALL TO MATCH ADJACENT SURFACE.
3 PATCH CONCRETE GRADE AFTER INSTALL OF NEW ELECTRICAL SERVICE CONDUITS.	10 WHERE PIPING AND/OR DUCTWORK WAS REMOVED INFILL HOLE WHERE PIPING AND/OR DUCTWORK WAS REMOVED WITH FULL MASONRY - MATCH THICKNESS AND COURSING. WHERE INFILL IS EXPOSED AND VISIBLE, PAINT TO MATCH EXISTING.
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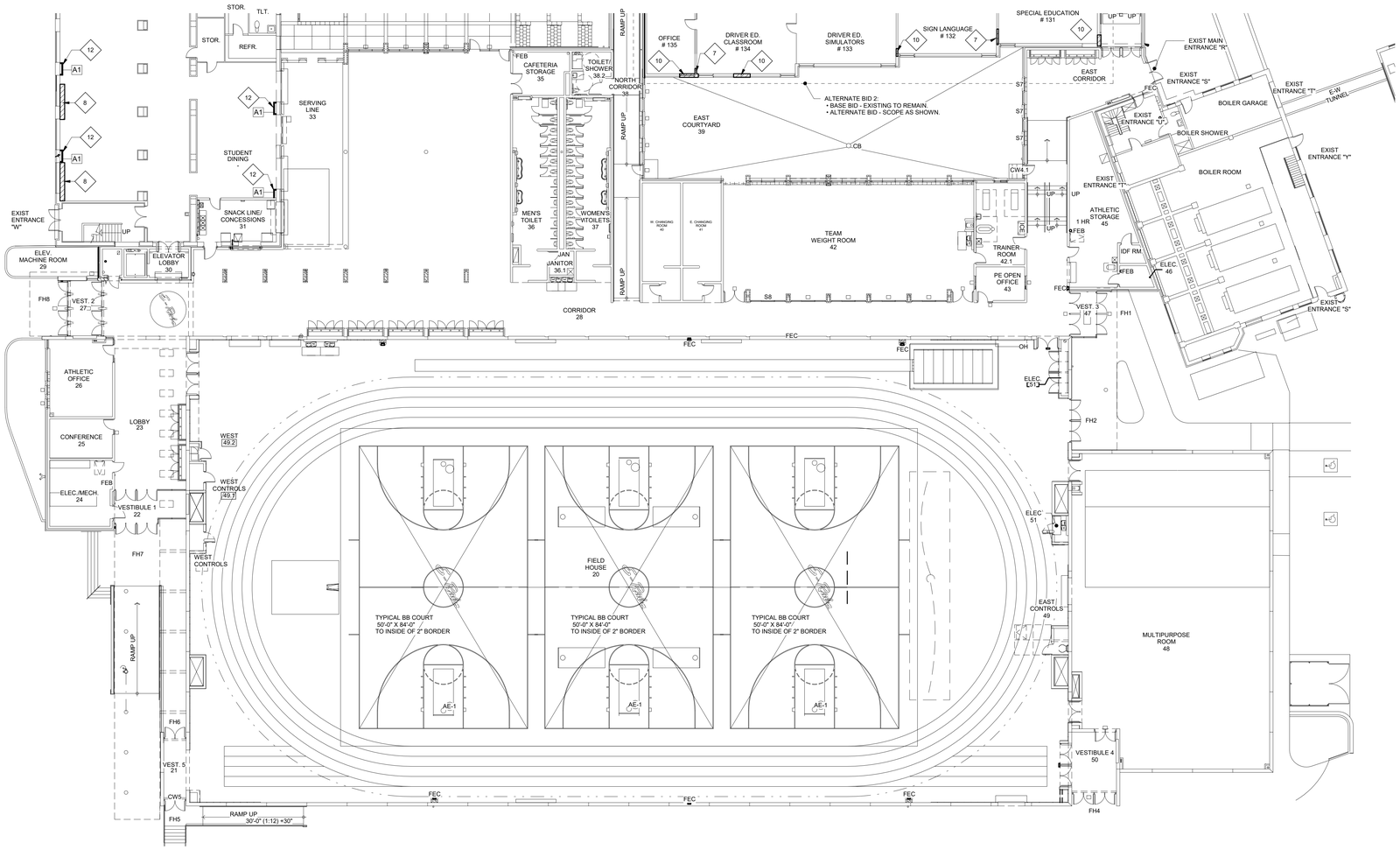

1 **BASEMENT FLOOR PLAN - AREA E**

1/16" = 1'-0"

NORTH

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QUAD CITIES, IL
61201

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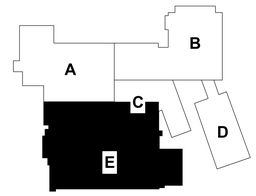

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Drawn	**Author**
Checked	**Checker**
Approved	**Approver**

SHEET TITLE

BASEMENT FLOOR PLAN - AREA E

SCALE

Scale: **As indicated**

SHEET NUMBER

A1.00E

21011.40 1/28/2022 5:47:28 PM ESSER HVAC Improvements - East High School

GENERAL NOTES

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LEGEND

- DEMOLITION WORK
- NEW WORK

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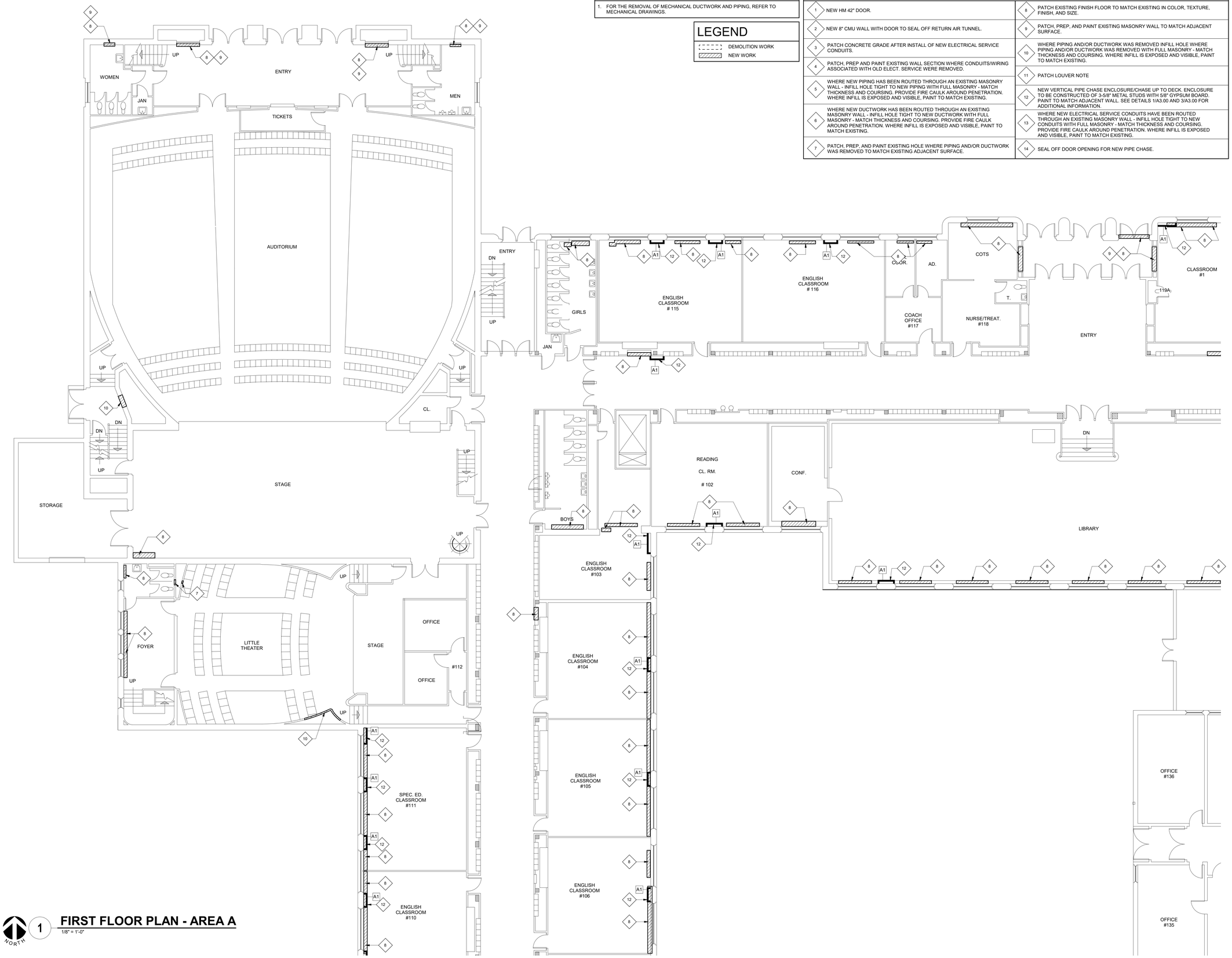

1 **FIRST FLOOR PLAN - AREA A**

1/8" = 1'-0"

NORTH

21011.40 1/28/2022 5:47:32 PM ESSER HVAC Improvements - East High School

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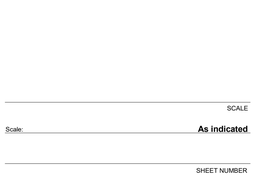

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Job Number	**21011.40**
Drawn	**Author**
Checked	**Checker**
Approved	**Approver**

SHEET TITLE

FIRST FLOOR PLAN - AREA A

SCALE

Scale: **As indicated**

SHEET NUMBER

A1.01A

NEW WORK KEY NOTES

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2 NEW 8" CMU WALL WITH DOOR TO SEAL OFF RETURN AIR TUNNEL.	9 PATCH, PREP, AND PAINT EXISTING MASONRY WALL TO MATCH ADJACENT SURFACE.
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GENERAL NOTES

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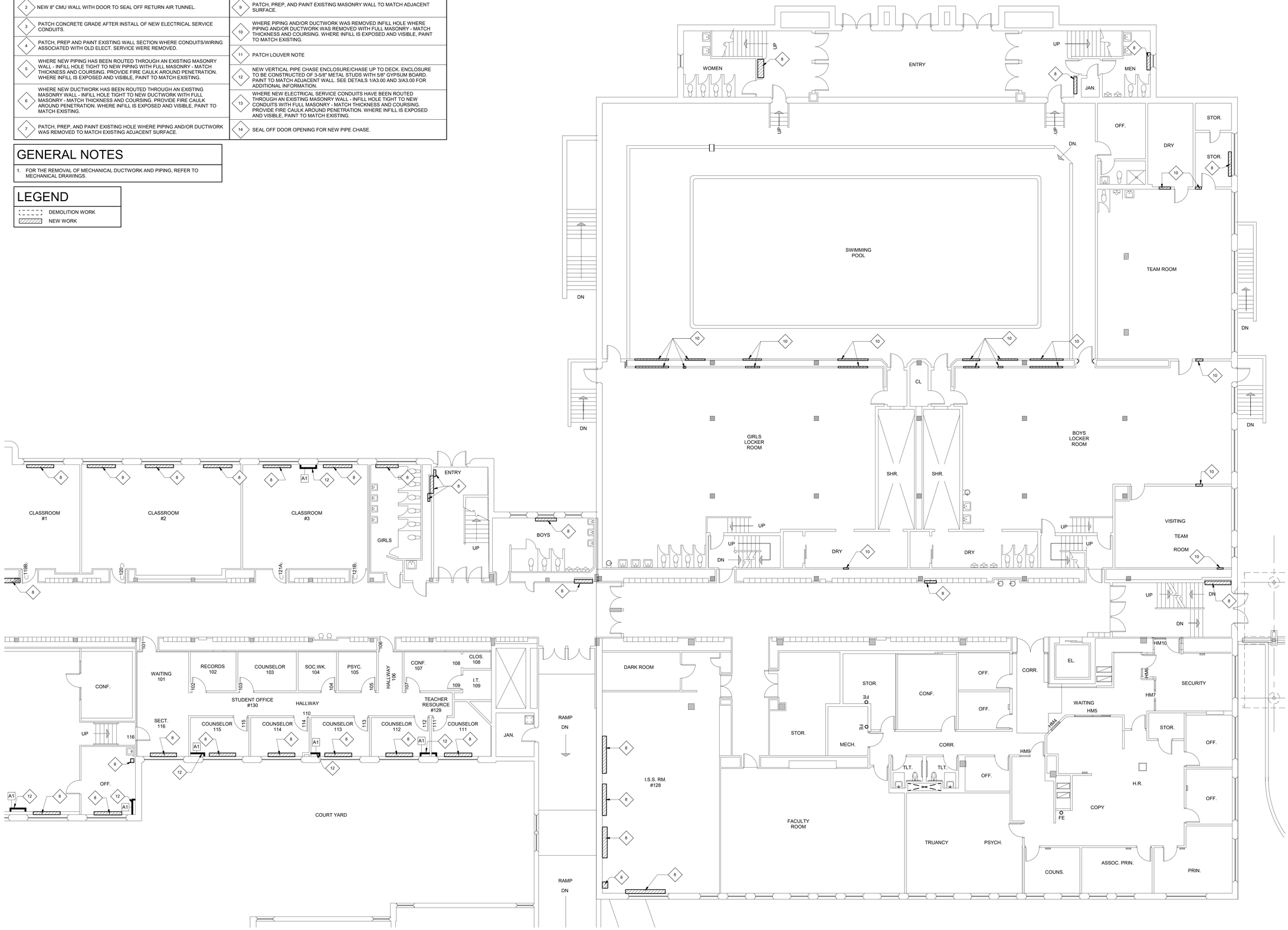
LEGEND

- DEMOLITION WORK
- NEW WORK



1 NORTH **FIRST FLOOR PLAN - AREA B**

1/8" = 1'-0"

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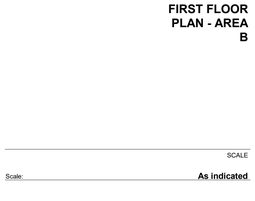

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SHEET INFORMATION

Issue	**BID DOCUMENTS**
Date	**01-28-2022**
Job Number	**21011.40**
Drawn	**Author**
Checked	**Checker**
Approved	**Approver**

SHEET TITLE

FIRST FLOOR PLAN - AREA B

SCALE

Scale: **As indicated**

SHEET NUMBER

A1.01B

GENERAL NOTES

1. FOR THE REMOVAL OF MECHANICAL DUCTWORK AND PIPING, REFER TO MECHANICAL DRAWINGS.

LEGEND

- DEMOLITION WORK
- NEW WORK

NEW WORK KEY NOTES

1	NEW HM 42" DOOR.	8	PATCH EXISTING FINISH FLOOR TO MATCH EXISTING IN COLOR, TEXTURE, FINISH, AND SIZE.
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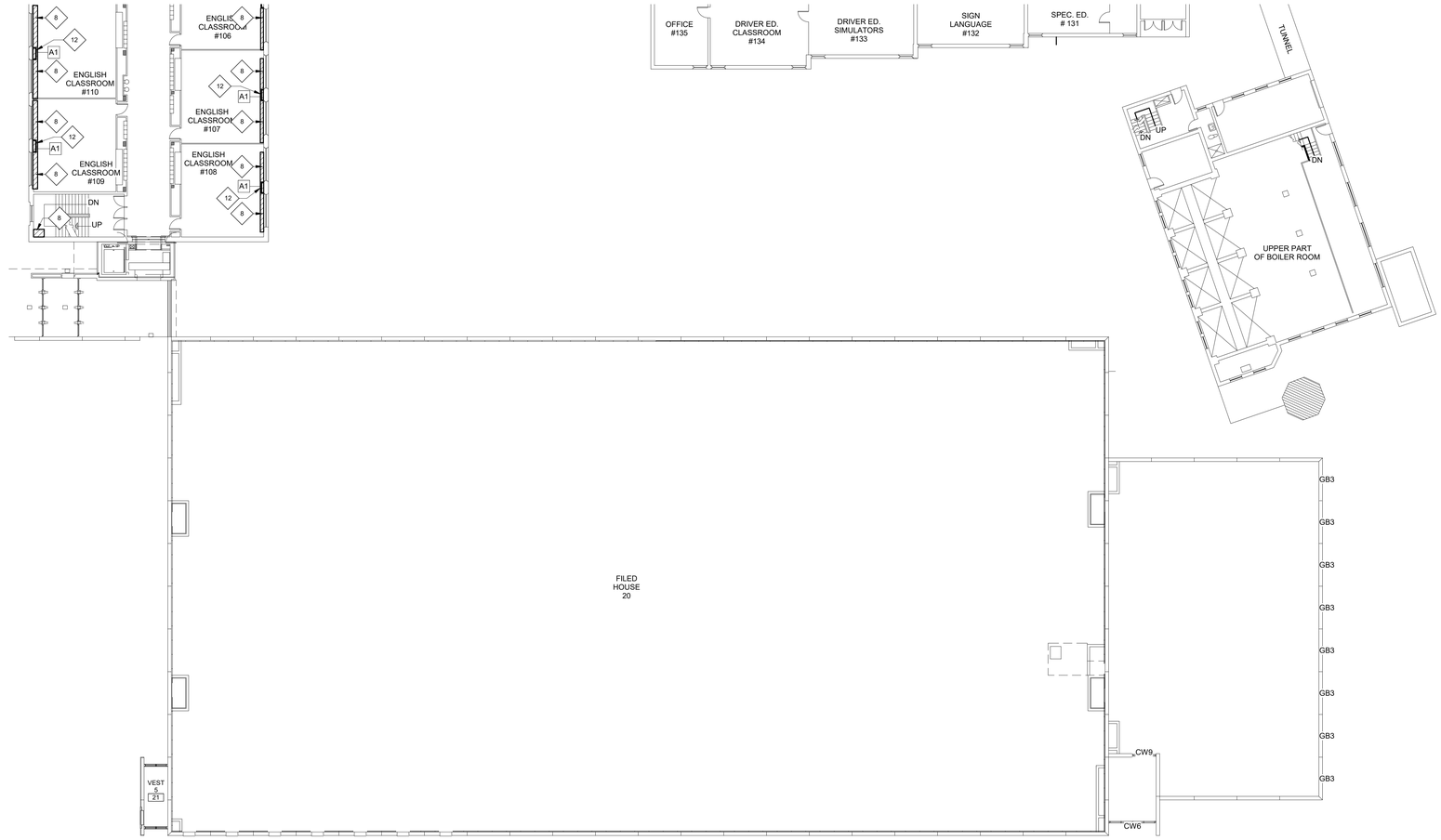

FIRST FLOOR PLAN - AREA E

1/16" = 1'-0"

NORTH

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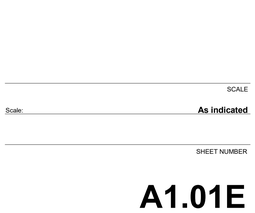

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Approved	**Approver**

SHEET TITLE

FIRST FLOOR PLAN - AREA E

SCALE

Scale: **As indicated**

SHEET NUMBER

A1.01E

21011.40 1/28/2022 5:49:54 PM ESSER HVAC Improvements - East High School

GENERAL NOTES

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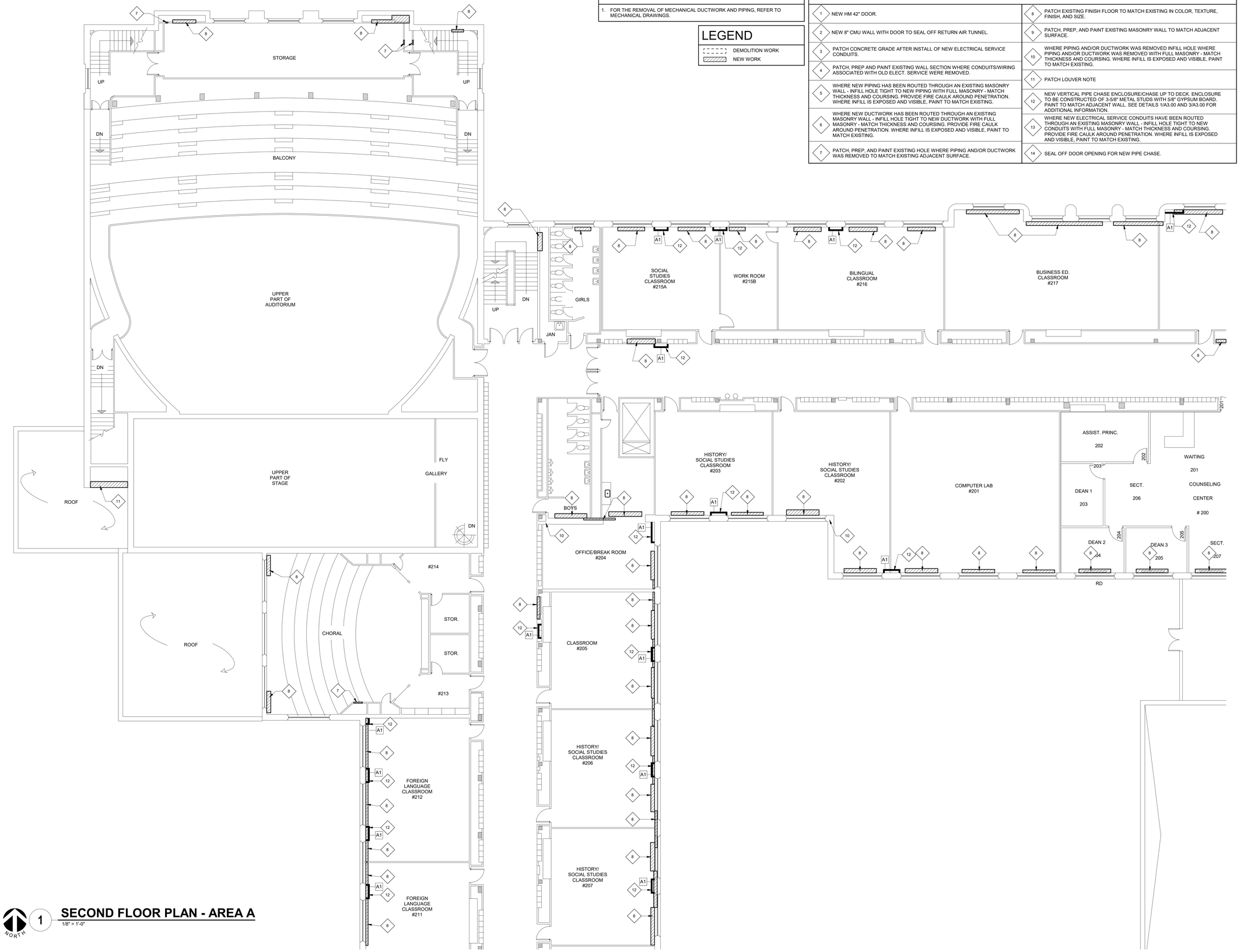

1 **SECOND FLOOR PLAN - AREA A**

1/8" = 1'-0"

NORTH

21011.40 1/28/2022 5:49:57 PM ESSER HVAC Improvements - East High School

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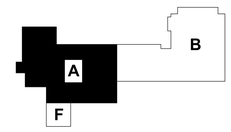

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Approved	**Approver**

SHEET TITLE

SECOND FLOOR PLAN - AREA A

SCALE

Scale: **As indicated**

SHEET NUMBER

A1.02A

NEW WORK KEY NOTES

1	PROVIDE DOORS AT OPENING. TOOTH-IN MASONRY AT PERIMETER OF OPENING TO MATCH EXISTING COURSING. REFER TO DOOR SCHEDULE FOR DOOR INFORMATION.
2	NEW 8" CMU WALL WITH DOOR TO SEAL OFF RETURN AIR TUNNEL.
3	PATCH CONCRETE GRADE AFTER INSTALL OF NEW ELECTRICAL SERVICE CONDUITS.
4	PATCH, PREP AND PAINT EXISTING WALL SECTION WHERE CONDUITS/WIRING ASSOCIATED WITH OLD ELECT. SERVICE WERE REMOVED.
5	WHERE NEW PIPING HAS BEEN ROUTED THROUGH AN EXISTING MASONRY WALL - INFILL HOLE TIGHT TO NEW PIPING WITH FULL MASONRY - MATCH THICKNESS AND COURSING. PROVIDE FIRE CAULK AROUND PENETRATION. WHERE INFILL IS EXPOSED AND VISIBLE, PAINT TO MATCH EXISTING.
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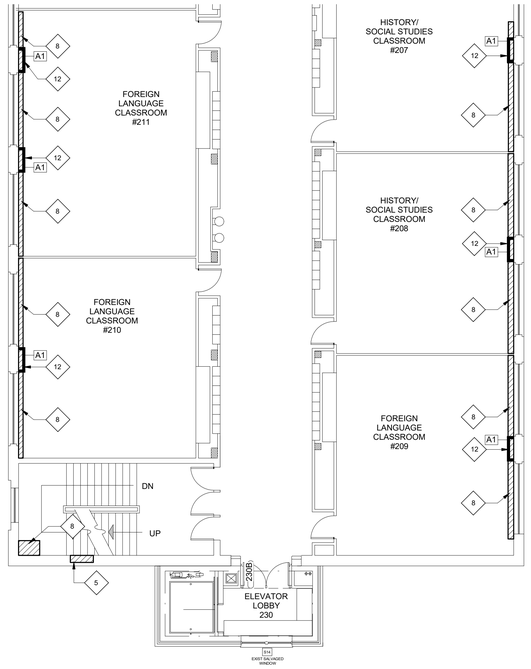
7	PATCH, PREP, AND PAINT EXISTING HOLE WHERE PIPING, DUCTWORK, AND/OR EQUIPMENT WAS REMOVED TO MATCH EXISTING ADJACENT SURFACE.
8	PATCH EXISTING FINISH FLOOR TO MATCH EXISTING IN COLOR, TEXTURE, FINISH, AND SIZE.
9	PATCH, PREP, AND PAINT EXISTING MASONRY WALL TO MATCH ADJACENT SURFACE.
10	WHERE PIPING, DUCTWORK, AND/OR EQUIPMENT WAS REMOVED INFILL HOLE WHERE PIPING AND/OR DUCTWORK WAS REMOVED WITH FULL MASONRY - MATCH THICKNESS AND COURSING. WHERE INFILL IS EXPOSED AND VISIBLE, PAINT TO MATCH EXISTING.
11	PATCH LOUVER
12	PROVIDE NEW VERTICAL PIPE ENCLOSURE TO EXISTING CEILING HEIGHT - ENCLOSURE TO BE CONSTRUCTED OF 3-5/8" CFMF WITH 5/8" GYPSUM BOARD. PAINT TO MATCH ADJACENT WALL.
13	WHERE NEW ELECTRICAL SERVICE CONDUITS HAVE BEEN ROUTED THROUGH AN EXISTING MASONRY WALL - INFILL HOLE TIGHT TO NEW CONDUITS WITH FULL MASONRY - MATCH THICKNESS AND COURSING. PROVIDE FIRE CAULK AROUND PENETRATION. WHERE INFILL IS EXPOSED AND VISIBLE, PAINT TO MATCH EXISTING.
14	NEW LAY-IN CEILING TO BE INSTALLED WHERE EXISTING WAS REMOVED IN ITS ENTIRETY.

GENERAL NOTES

1. FOR THE REMOVAL OF MECHANICAL DUCTWORK AND PIPING, REFER TO MECHANICAL DRAWINGS.

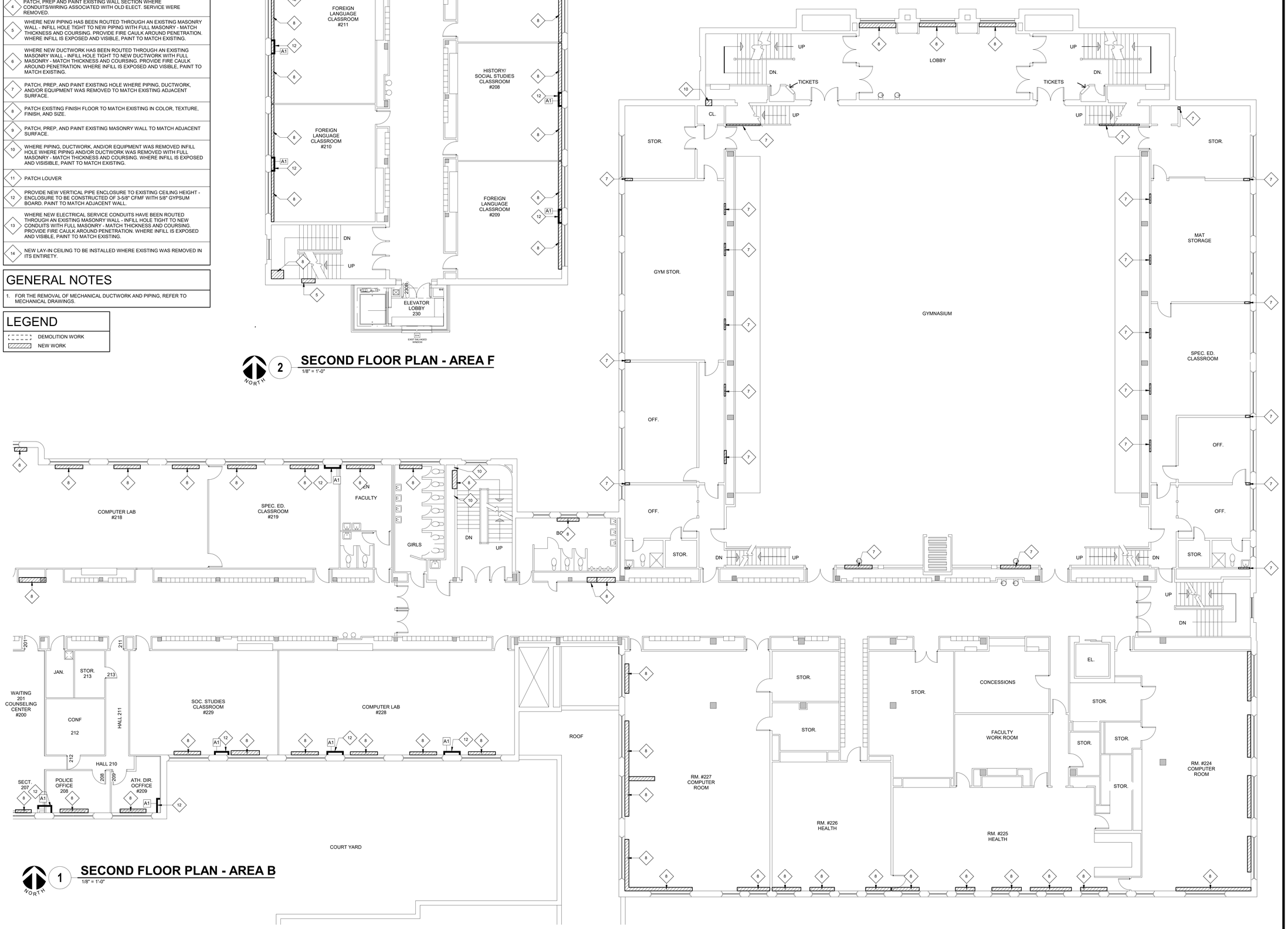
LEGEND

- DEMOLITION WORK
- NEW WORK



NORTH 2 **SECOND FLOOR PLAN - AREA F**

1/8" = 1'-0"



NORTH 1 **SECOND FLOOR PLAN - AREA B**

1/8" = 1'-0"

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KEY PLAN

KEYPLAN

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REVISIONS

No.	Date	Revision / Issue

SHEET INFORMATION

Issue	**BID DOCUMENTS**
Date	**01-28-2022**
Job Number	**21011.40**
Drawn	**Author**
Checked	**Checker**
Approved	**Approver**

SHEET TITLE

SECOND FLOOR PLAN - AREA B & F

SCALE

Scale: **As indicated**

SHEET NUMBER

A1.02B

21011.40 1/28/2022 5:50:02 PM ESSER HVAC Improvements - East High School

GENERAL NOTES

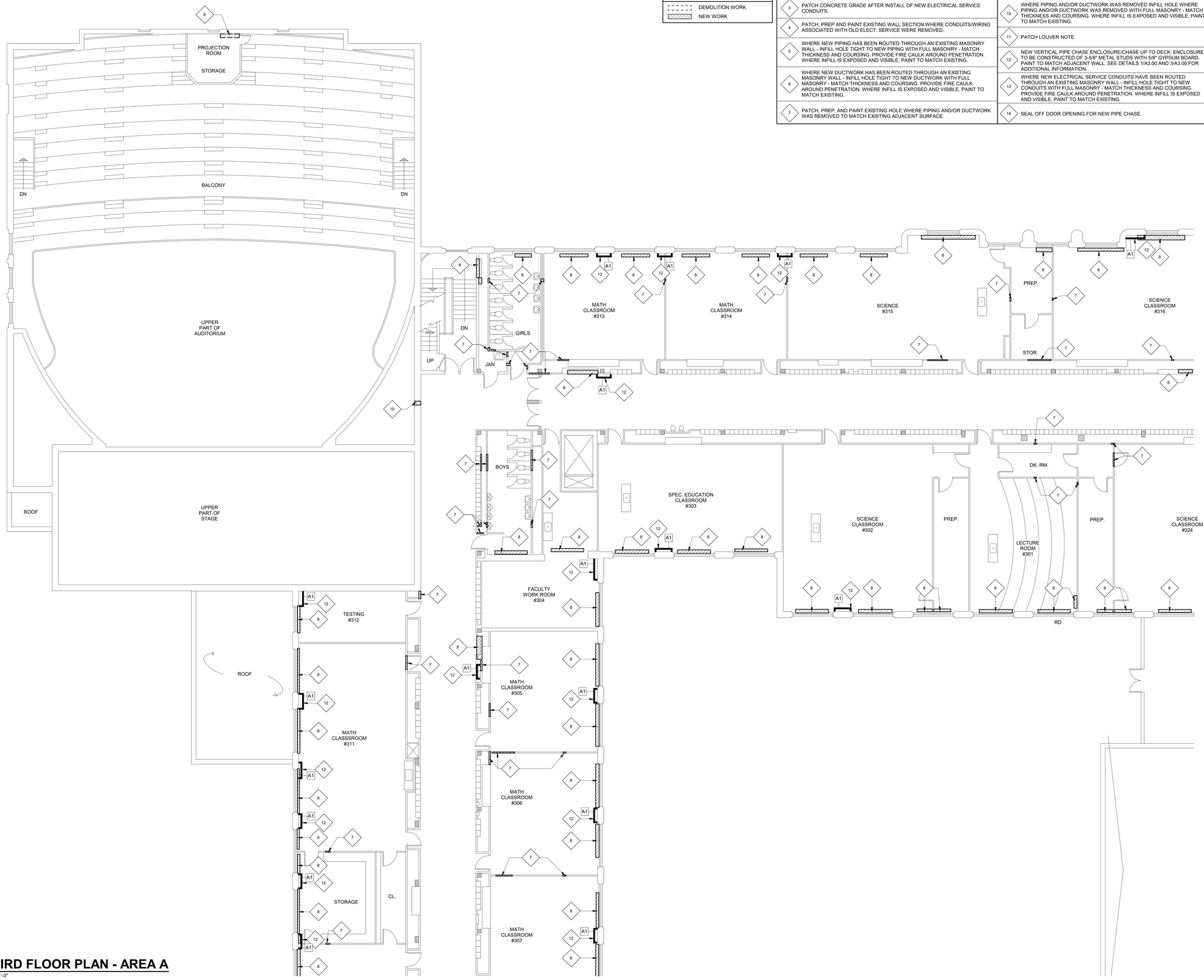
1. FOR THE REMOVAL OF MECHANICAL DUCTWORK AND PIPING, REFER TO MECHANICAL DRAWINGS.

LEGEND

- DEMOLITION WORK
- NEW WORK

NEW WORK KEY NOTES

1 NEW HM 42" DOOR.	8 PATCH EXISTING FINISH FLOOR TO MATCH EXISTING IN COLOR, TEXTURE, FINISH, AND SIZE.
2 NEW 8" CMU WALL WITH DOOR TO SEAL OFF RETURN AIR TUNNEL.	9 PATCH, PREP, AND PAINT EXISTING MASONRY WALL TO MATCH ADJACENT SURFACE.
3 PATCH CONCRETE GRADE AFTER INSTALL OF NEW ELECTRICAL SERVICE CONDUITS.	10 WHERE PIPING AND/OR DUCTWORK WAS REMOVED INFILL HOLE WHERE PIPING AND/OR DUCTWORK WAS REMOVED WITH FULL MASONRY - MATCH THICKNESS AND COURSING. WHERE INFILL IS EXPOSED AND VISIBLE, PAINT TO MATCH EXISTING.
4 PATCH, PREP AND PAINT EXISTING WALL SECTION WHERE CONDUITS/WIRING ASSOCIATED WITH OLD ELECT. SERVICE WERE REMOVED.	11 PATCH LOUVER NOTE
5 WHERE NEW PIPING HAS BEEN ROUTED THROUGH AN EXISTING MASONRY WALL - INFILL HOLE TIGHT TO NEW PIPING WITH FULL MASONRY - MATCH THICKNESS AND COURSING. PROVIDE FIRE CAULK AROUND PENETRATION. WHERE INFILL IS EXPOSED AND VISIBLE, PAINT TO MATCH EXISTING.	12 NEW VERTICAL PIPE CHASE ENCLOSURE/CHASE UP TO DECK. ENCLOSURE TO BE CONSTRUCTED OF 3-5/8" METAL STUDS WITH 5/8" GYPSUM BOARD. PAINT TO MATCH ADJACENT WALL. SEE DETAILS 1/A3.00 AND 3/A3.00 FOR ADDITIONAL INFORMATION.
6 WHERE NEW DUCTWORK HAS BEEN ROUTED THROUGH AN EXISTING MASONRY WALL - INFILL HOLE TIGHT TO NEW DUCTWORK WITH FULL MASONRY - MATCH THICKNESS AND COURSING. PROVIDE FIRE CAULK AROUND PENETRATION. WHERE INFILL IS EXPOSED AND VISIBLE, PAINT TO MATCH EXISTING.	13 WHERE NEW ELECTRICAL SERVICE CONDUITS HAVE BEEN ROUTED THROUGH AN EXISTING MASONRY WALL - INFILL HOLE TIGHT TO NEW CONDUITS WITH FULL MASONRY - MATCH THICKNESS AND COURSING. PROVIDE FIRE CAULK AROUND PENETRATION. WHERE INFILL IS EXPOSED AND VISIBLE, PAINT TO MATCH EXISTING.
7 PATCH, PREP, AND PAINT EXISTING HOLE WHERE PIPING AND/OR DUCTWORK WAS REMOVED TO MATCH EXISTING ADJACENT SURFACE.	14 SEAL OFF DOOR OPENING FOR NEW PIPE CHASE.



NORTH

1 **THIRD FLOOR PLAN - AREA A**

1/8" = 1'-0"

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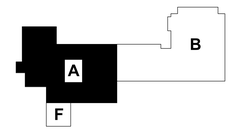

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Checked	**Checker**
Approved	**Approver**

SHEET TITLE

THIRD FLOOR PLAN - AREA A

SCALE

Scale: **As indicated**

SHEET NUMBER

A1.03A

21011.40 1/28/2022 5:50:05 PM ESSER HVAC Improvements - East High School

NEW WORK KEY NOTES

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2	NEW 8" CMU WALL WITH DOOR TO SEAL OFF RETURN AIR TUNNEL.
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GENERAL NOTES

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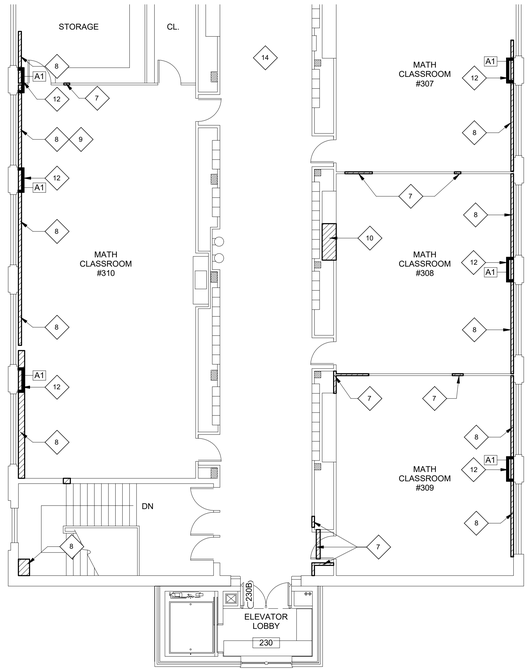
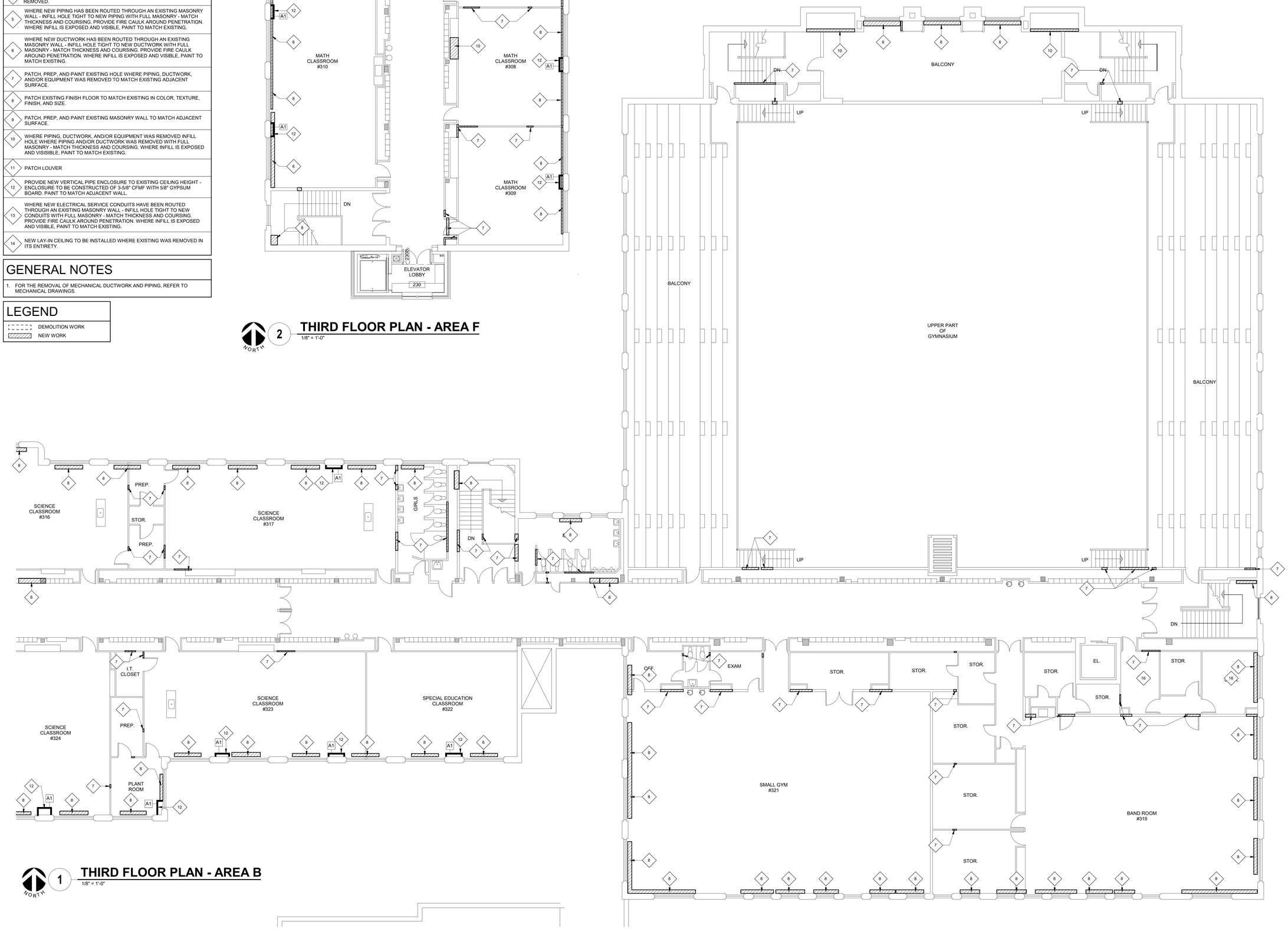
LEGEND

- DEMOLITION WORK
- NEW WORK



NORTH 2 **THIRD FLOOR PLAN - AREA F**
1/8" = 1'-0"



NORTH 1 **THIRD FLOOR PLAN - AREA B**
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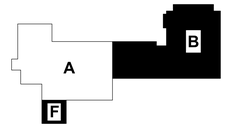

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Approved	**Approver**

SHEET TITLE
THIRD FLOOR PLAN - AREA B & F

SCALE
Scale: **As indicated**

SHEET NUMBER
A1.03B

ANSI SPRI ES-1 DESIGN CRITERIA

HORIZONTAL DESIGN PRESSURE (OUTWARD PRESSURE):
PERIMETER = 32 PSF
CORNER = 40 PSF

VERTICAL DESIGN PRESSURE:
PERIMETER = 55 PSF
CORNER = 83 PSF

GENERAL NOTES

1. REFER TO MECHANICAL AND ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.

GENERAL ROOF NOTES

1. EACH BIDDER SHALL VISIT THE SITE OF PROPOSED WORK AND FULLY ACQUAINT THEMSELVES WITH CONDITIONS RELATING TO CONSTRUCTION AND LABOR SO THAT THEY MAY FULLY UNDERSTAND THE FACILITIES, DIFFICULTIES, AND RESTRICTIONS AFFECTING THE COMPLETION OF THE WORK INCLUDED UNDER THE CONTRACT.
2. FIELD VERIFY AND COORDINATE ITEMS, DIMENSIONS, CONDITIONS, AND QUANTITIES, ETC. NOTIFY ARCHITECT OF ANY APPARENT DISCREPANCIES.
3. ITEMS INDICATED AS EXISTING ARE TO REMAIN. UON.
4. CONTRACTOR TO AVOID EXISTING ROOF AREAS WHERE NO WORK IS REQUIRED. DO NOT STAGE MATERIALS ON EXISTING ROOF AREAS. DAMAGE TO EXISTING ROOF AREAS CAUSED BY CONSTRUCTION SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO REPAIR OR REPLACE AND PROVIDE A WEATHERTIGHT CONDITION THAT MATCHES THE EXISTING ROOFING SYSTEM.
5. PROVIDE MATERIALS AND PERFORM WORK TO PROVIDE A COMPLETE WEATHERTIGHT CONDITION. ROOF WORK SHALL BE PERFORMED IN STRICT ACCORDANCE WITH THE ROOF MEMBRANE MANUFACTURER'S WRITTEN REQUIREMENTS.
6. CONTRACTOR SHALL BE RESPONSIBLE FOR EXTENDING AND ADJUSTING EXISTING ITEMS ON THE ROOF WHETHER SHOWN OR NOT INCLUDING, BUT NOT LIMITED TO CURBS, MECHANICAL ITEMS, GAS PIPING, ELECTRICAL DEVICES, CONDUITS, FANS, STACKS, VENTS, DRAINS, ETC. PER EQUIPMENT MANUFACTURER'S WRITTEN REQUIREMENTS.
7. LOCATION OF EXISTING ROOF TOP MECHANICAL EQUIPMENT IS DIAGRAMMATIC. CONTRACTOR TO FIELD VERIFY EXACT QUANTITIES AND LOCATIONS.
8. INSPECT EXISTING ROOF DECK AFTER TEAR-OFF AT ROOF AREAS TO BE REMOVED DOWN TO EXISTING ROOF DECK. NOTIFY ARCHITECT OF DAMAGED OR DETERIORATED ROOF DECK.
9. REPAIR OR REPLACE ROOF DECK DAMAGED DURING TEAR-OFF AT NO COST TO THE OWNER.
10. REPLACE EXISTING DAMAGED WOOD NAILERS AS REQUIRED.
11. ROOFING DETAILS MUST MEET THE REQUIREMENTS OF THE ROOFING MANUFACTURE TO OBTAIN THE ROOFING WARRANTY AS SPECIFIED.
12. METAL ROOF EDGE SECUREMENT COMPONENTS SHALL MEET REQUIREMENTS OF ANSI/SPRI ES-1.
13. ADJUST EXISTING ROOF DRAIN HEIGHTS AS REQUIRED TO MEET NEW INSULATION HEIGHTS, VIF.
14. PATCH EXISTING SURFACES AND FINISHES AFFECTED BY THE WORK WITH MATERIALS CONSISTENT WITH EXISTING CONSTRUCTION WHETHER OR NOT PATCH MATERIAL IS INDICATED ON DRAWINGS.

EXISTING ROOF DRAINS

1. AT EXISTING ROOF DRAIN (RD), INSPECT ROOF DRAIN ASSEMBLIES AT EXISTING ROOF DRAINS TO REMAIN. REPAIR AND REPLACE ITEMS AND CONNECTIONS TO ASSURE A WEATHERTIGHT CONDITION AFTER WORK IS COMPLETED. REMOVE AND REPLACE EXISTING CLAMPING RINGS, LUGS, CLAMPING DEVICES, STRAINERS, ETC. AND REPLACE WITH NEW ITEMS COMPATIBLE WITH EXISTING ASSEMBLY. PATCH DAMAGED EXISTING PIPE INSULATION AS REQUIRED FOR A COMPLETE ENCLOSURE OF DRAIN BODY AND STORM PIPING. AFTER NEW ROOF SYSTEM IS INSTALLED, CLEAN AND ROD EXISTING ROOF DRAIN LINES AND LEADERS FOR PROPER OPERATION FROM ROOF TO POINT OF DISCHARGE ONTO GRADE OR INTO STORM SEWER TO PROVIDE A COMPLETE AND PROPER FUNCTIONING SYSTEM TO INSURE POSITIVE DRAINAGE, TYP.

ROOFING NOTES

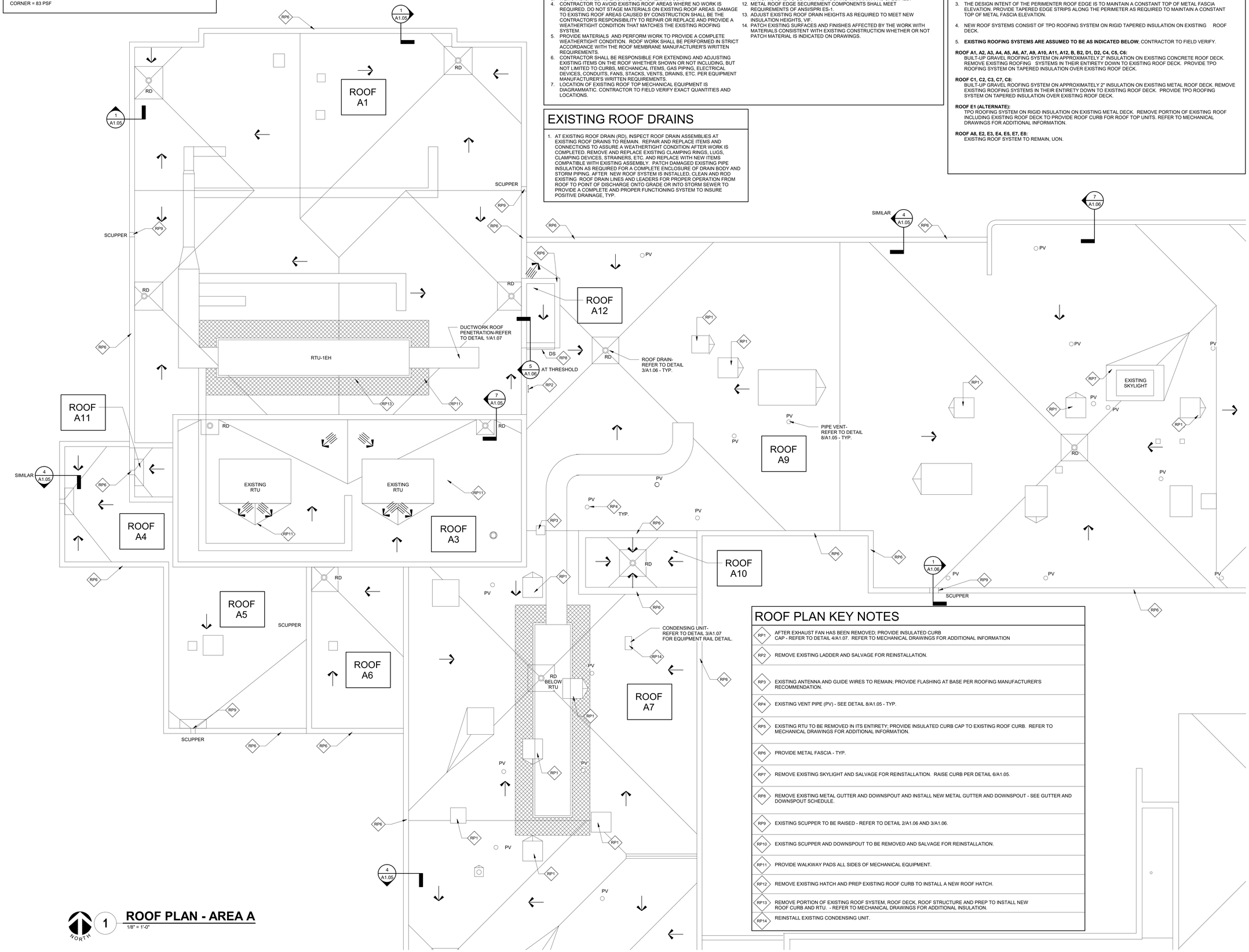
1. VERIFY THE OPERATING CONDITION OF EXISTING ROOFTOP EQUIPMENT TO REMAIN PRIOR TO THE START OF THE WORK, AND AFTER WORK IS COMPLETED. REPORT OBSERVED CONDITIONS IN WRITING TO THE ARCHITECT. EXISTING EQUIPMENT AFFECTED BY THE WORK WHICH IS NOT IN PROPER OPERATING CONDITION AFTER WORK IS COMPLETED SHALL BE REPAIRED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
2. TERMINATE COPINGS, FASCIAS, EXPANSION JOINTS, ETC. AS REQUIRED TO PROVIDE A WEATHERTIGHT CONNECTION BETWEEN ADJACENT SURFACES.
3. THE DESIGN INTENT OF THE PERIMENTER ROOF EDGE IS TO MAINTAIN A CONSTANT TOP OF METAL FASCIA ELEVATION. PROVIDE TAPERED EDGE STRIPS ALONG THE PERIMETER AS REQUIRED TO MAINTAIN A CONSTANT TOP OF METAL FASCIA ELEVATION.
4. NEW ROOF SYSTEMS CONSIST OF TPO ROOFING SYSTEM ON RIGID TAPERED INSULATION ON EXISTING ROOF DECK.
5. **EXISTING ROOFING SYSTEMS ARE ASSUMED TO BE AS INDICATED BELOW**; CONTRACTOR TO FIELD VERIFY.

ROOF A1, A2, A3, A4, A5, A6, A7, A9, A10, A11, A12, B, B2, D1, D2, C4, C5, C6:
BUILT-UP GRAVEL ROOFING SYSTEM ON APPROXIMATELY 2" INSULATION ON EXISTING CONCRETE ROOF DECK. REMOVE EXISTING ROOFING SYSTEMS IN THEIR ENTIRETY DOWN TO EXISTING ROOF DECK. PROVIDE TPO ROOFING SYSTEM ON TAPERED INSULATION OVER EXISTING ROOF DECK.

ROOF C1, C2, C3, C7, C8:
BUILT-UP GRAVEL ROOFING SYSTEM ON APPROXIMATELY 2" INSULATION ON EXISTING METAL ROOF DECK. REMOVE EXISTING ROOFING SYSTEMS IN THEIR ENTIRETY DOWN TO EXISTING ROOF DECK. PROVIDE TPO ROOFING SYSTEM ON TAPERED INSULATION OVER EXISTING ROOF DECK.

ROOF E1 (ALTERNATE):
TPO ROOFING SYSTEM ON RIGID INSULATION ON EXISTING METAL DECK. REMOVE PORTION OF EXISTING ROOF INCLUDING EXISTING ROOF DECK TO PROVIDE ROOF CURB FOR ROOF TOP UNITS. REFER TO MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.

ROOF A8, E2, E3, E4, E5, E7, E8:
EXISTING ROOF SYSTEM TO REMAIN, UON.



ROOF PLAN KEY NOTES

RP1	AFTER EXHAUST FAN HAS BEEN REMOVED; PROVIDE INSULATED CURB CAP - REFER TO DETAIL 4/A1.07. REFER TO MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION
RP2	REMOVE EXISTING LADDER AND SALVAGE FOR REINSTALLATION.
RP3	EXISTING ANTENNA AND GUIDE WIRES TO REMAIN; PROVIDE FLASHING AT BASE PER ROOFING MANUFACTURER'S RECOMMENDATION.
RP4	EXISTING VENT PIPE (PV) - SEE DETAIL 8/A1.05 - TYP.
RP5	EXISTING RTU TO BE REMOVED IN ITS ENTIRETY; PROVIDE INSULATED CURB CAP TO EXISTING ROOF CURB. REFER TO MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.
RP6	PROVIDE METAL FASCIA - TYP.
RP7	REMOVE EXISTING SKYLIGHT AND SALVAGE FOR REINSTALLATION. RAISE CURB PER DETAIL 6/A1.05.
RP8	REMOVE EXISTING METAL GUTTER AND DOWNSPOUT AND INSTALL NEW METAL GUTTER AND DOWNSPOUT - SEE GUTTER AND DOWNSPOUT SCHEDULE.
RP9	EXISTING SCUPPER TO BE RAISED - REFER TO DETAIL 2/A1.06 AND 3/A1.06.
RP10	EXISTING SCUPPER AND DOWNSPOUT TO BE REMOVED AND SALVAGE FOR REINSTALLATION.
RP11	PROVIDE WALKWAY PADS ALL SIDES OF MECHANICAL EQUIPMENT.
RP12	REMOVE EXISTING HATCH AND PREP EXISTING ROOF CURB TO INSTALL A NEW ROOF HATCH.
RP13	REMOVE PORTION OF EXISTING ROOF SYSTEM, ROOF DECK, ROOF STRUCTURE AND PREP TO INSTALL NEW ROOF CURB AND RTU. - REFER TO MECHANICAL DRAWINGS FOR ADDITIONAL INSULATION.
RP14	REINSTALL EXISTING CONDENSING UNIT.

NORTH

1 **ROOF PLAN - AREA A**
1/8" = 1'-0"

21011.40 1/28/2022 5:50:14 PM ESSER HVAC Improvements - East High School

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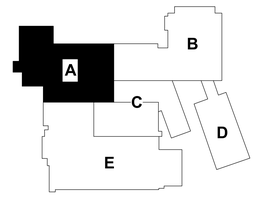

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ROOF PLAN - AREA A

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A1.04A

GENERAL ROOF NOTES

1. EACH BIDDER SHALL VISIT THE SITE OF PROPOSED WORK AND FULLY ACQUAINT THEMSELVES WITH CONDITIONS RELATING TO CONSTRUCTION AND LABOR SO THAT THEY MAY FULLY UNDERSTAND THE FACILITIES, DIFFICULTIES, AND RESTRICTIONS AFFECTING THE COMPLETION OF THE WORK INCLUDED UNDER THE CONTRACT.
2. FIELD VERIFY AND COORDINATE ITEMS, DIMENSIONS, CONDITIONS, AND QUANTITIES, ETC. NOTIFY ARCHITECT OF ANY APPARENT DISCREPANCIES.
3. ITEMS INDICATED AS EXISTING ARE TO REMAIN. UON.
4. CONTRACTOR TO AVOID EXISTING ROOF AREAS WHERE NO WORK IS REQUIRED. DO NOT STAGE MATERIALS ON EXISTING ROOF AREAS. DAMAGE TO EXISTING ROOF AREAS CAUSED BY CONSTRUCTION SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO REPAIR OR REPLACE AND PROVIDE A WEATHERTIGHT CONDITION THAT MATCHES THE EXISTING ROOFING SYSTEM.
5. PROVIDE MATERIALS AND PERFORM WORK TO PROVIDE A COMPLETE WEATHERTIGHT CONDITION. ROOF WORK SHALL BE PERFORMED IN STRICT ACCORDANCE WITH THE ROOF MEMBRANE MANUFACTURER'S WRITTEN REQUIREMENTS.
6. CONTRACTOR SHALL BE RESPONSIBLE FOR EXTENDING AND ADJUSTING EXISTING ITEMS ON THE ROOF WHETHER SHOWN OR NOT INCLUDING, BUT NOT LIMITED TO CURBS, MECHANICAL ITEMS, GAS PIPING, ELECTRICAL DEVICES, CONDUITS, FANS, STACKS, VENTS, DRAINS, ETC. PER EQUIPMENT MANUFACTURER'S WRITTEN REQUIREMENTS.
7. LOCATION OF EXISTING ROOF TOP MECHANICAL EQUIPMENT IS DIAGRAMMATIC. CONTRACTOR TO FIELD VERIFY EXACT QUANTITIES AND LOCATIONS.
8. INSPECT EXISTING ROOF DECK AFTER TEAR-OFF AT ROOF AREAS TO BE REMOVED DOWN TO EXISTING ROOF DECK. NOTIFY ARCHITECT OF DAMAGED OR DETERIORATED ROOF DECK.
9. REPAIR OR REPLACE ROOF DECK DAMAGED DURING TEAR-OFF AT NO COST TO THE OWNER.
10. REPLACE EXISTING DAMAGED WOOD NAILERS AS REQUIRED.
11. ROOFING DETAILS MUST MEET THE REQUIREMENTS OF THE ROOFING MANUFACTURE TO OBTAIN THE ROOFING WARRANTY AS SPECIFIED.
12. METAL ROOF EDGE SECUREMENT COMPONENTS SHALL MEET REQUIREMENTS OF ANSI/SPRI ES-1.
13. ADJUST EXISTING ROOF DRAIN HEIGHTS AS REQUIRED TO MEET NEW INSULATION HEIGHTS, VIF.
14. PATCH EXISTING SURFACES AND FINISHES AFFECTED BY THE WORK WITH MATERIALS CONSISTENT WITH EXISTING CONSTRUCTION WHETHER OR NOT PATCH MATERIAL IS INDICATED ON DRAWINGS.

EXISTING ROOF DRAINS

1. AT EXISTING ROOF DRAIN (RD), INSPECT ROOF DRAIN ASSEMBLIES AT EXISTING ROOF DRAINS TO REMAIN. REPAIR AND REPLACE ITEMS AND CONNECTIONS TO ASSURE A WEATHERTIGHT CONDITION AFTER WORK IS COMPLETED. REMOVE AND REPLACE EXISTING CLAMPING RINGS, LUGS, CLAMPING DEVICES, STRAINERS, ETC. AND REPLACE WITH NEW ITEMS COMPATIBLE WITH EXISTING ASSEMBLY. PATCH DAMAGED EXISTING PIPE INSULATION AS REQUIRED FOR A COMPLETE ENCLOSURE OF DRAIN BODY AND STORM PIPING. AFTER NEW ROOF SYSTEM IS INSTALLED, CLEAN AND ROD EXISTING ROOF DRAIN LINES AND LEADERS FOR PROPER OPERATION FROM ROOF TO POINT OF DISCHARGE ONTO GRADE OR INTO STORM SEWER TO PROVIDE A COMPLETE AND PROPER FUNCTIONING SYSTEM TO INSURE POSITIVE DRAINAGE, TYP.

ANSI SPRI ES-1 DESIGN CRITERIA

HORIZONTAL DESIGN PRESSURE (OUTWARD PRESSURE):
PERIMETER = 32 PSF
CORNER = 40 PSF

VERTICAL DESIGN PRESSURE:
PERIMETER = 55 PSF
CORNER = 83 PSF

ROOFING NOTES

1. VERIFY THE OPERATING CONDITION OF EXISTING ROOFTOP EQUIPMENT TO REMAIN PRIOR TO THE START OF THE WORK, AND AFTER WORK IS COMPLETED. REPORT OBSERVED CONDITIONS IN WRITING TO THE ARCHITECT. EXISTING EQUIPMENT AFFECTED BY THE WORK WHICH IS NOT IN PROPER OPERATING CONDITION AFTER WORK IS COMPLETED SHALL BE REPAIRED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
2. TERMINATE COPINGS, FASCIAS, EXPANSION JOINTS, ETC. AS REQUIRED TO PROVIDE A WEATHERTIGHT CONNECTION BETWEEN ADJACENT SURFACES.
3. THE DESIGN INTENT OF THE PERIMENTER ROOF EDGE IS TO MAINTAIN A CONSTANT TOP OF METAL FASCIA ELEVATION. PROVIDE TAPERED EDGE STRIPS ALONG THE PERIMETER AS REQUIRED TO MAINTAIN A CONSTANT TOP OF METAL FASCIA ELEVATION.
4. NEW ROOF SYSTEMS CONSIST OF TPO ROOFING SYSTEM ON RIGID TAPERED INSULATION ON EXISTING ROOF DECK.
5. **EXISTING ROOFING SYSTEMS ARE ASSUMED TO BE AS INDICATED BELOW; CONTRACTOR TO FIELD VERIFY.**

ROOF A1, A2, A3, A4, A5, A6, A7, A9, A10, A11, A12 B, B2, D1, D2, C4, C5, C6:
BUILT-UP GRAVEL ROOFING SYSTEM ON APPROXIMATELY 2" INSULATION ON EXISTING CONCRETE ROOF DECK. REMOVE EXISTING ROOFING SYSTEMS IN THEIR ENTIRETY DOWN TO EXISTING ROOF DECK. PROVIDE TPO ROOFING SYSTEM ON TAPERED INSULATION OVER EXISTING ROOF DECK.

ROOF C1, C2, C3, C7, C8:
BUILT-UP GRAVEL ROOFING SYSTEM ON APPROXIMATELY 2" INSULATION ON EXISTING METAL ROOF DECK, REMOVE EXISTING ROOFING SYSTEMS IN THEIR ENTIRETY DOWN TO EXISTING ROOF DECK. PROVIDE TPO ROOFING SYSTEM ON TAPERED INSULATION OVER EXISTING ROOF DECK.

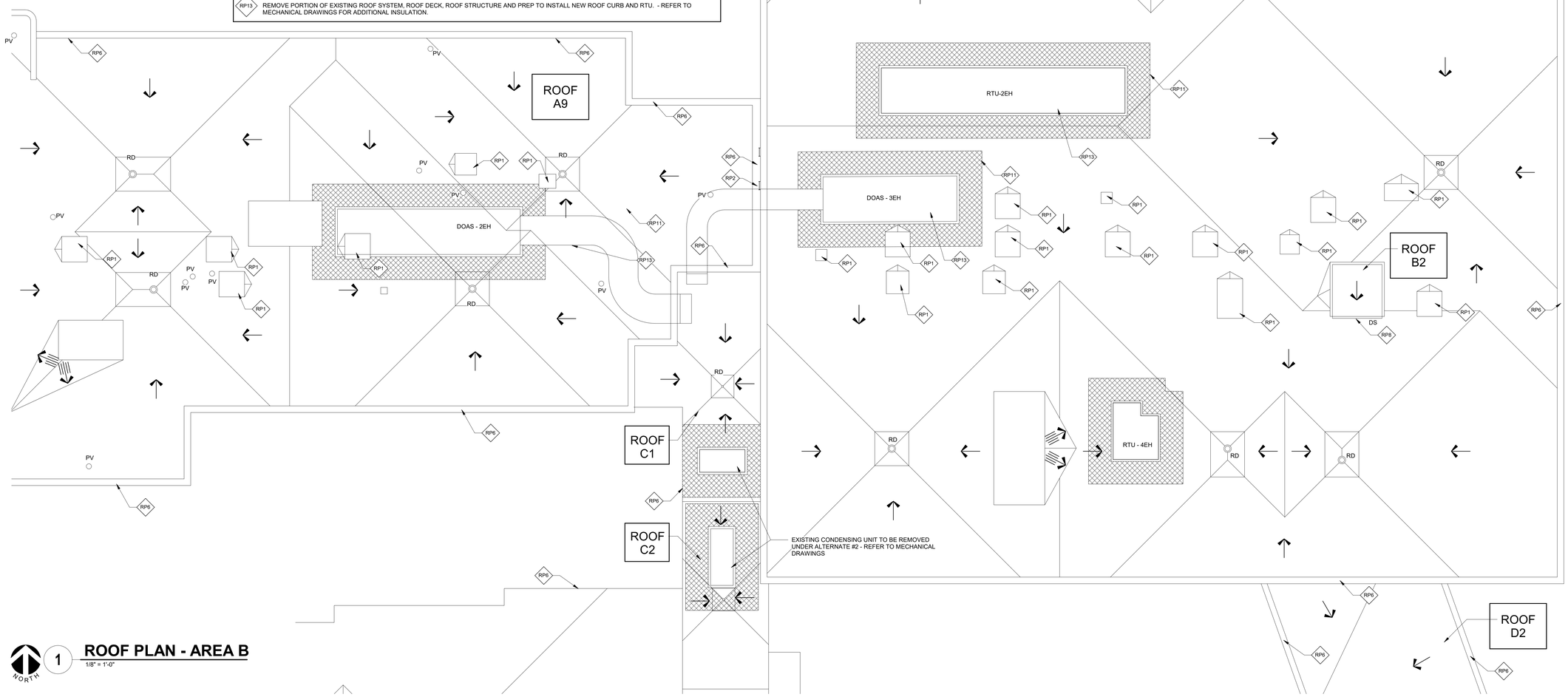
ROOF E6:
TPO ROOFING SYSTEM ON RIGID INSULATION ON EXISTING METAL DECK. REMOVE PORTION OF EXISTING ROOF INCLUDING EXISTING ROOF DECK TO PROVIDE NEW MECHANICAL EQUIPMENT. REFER TO MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.

ROOF E1 (ALTERNATE):
TPO ROOFING SYSTEM ON RIGID INSULATION ON EXISTING METAL DECK. REMOVE PORTION OF EXISTING ROOF INCLUDING EXISTING ROOF DECK TO PROVIDE ROOF CURB FOR ROOF TOP UNITS. REFER TO MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.

ROOF A8, E2, E3, E4, E5, E7, E8:
EXISTING ROOF SYSTEM TO REMAIN, UON.

ROOF PLAN KEY NOTES

RP1	AFTER MECHANICAL EQUIPMENT HAS BEEN REMOVED; PROVIDE INSULATED CURB CAP - REFER TO DETAIL 4/A1.05. REFER TO MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION
RP2	REMOVE EXISTING LADDER AND SALVAGE FOR REINSTALLATION.
RP3	EXISTING ANTENNA TO REMAIN; PROVIDE FLASHING AT BASE PER ROOFING MANUFACTURER'S RECOMMENDATION.
RP4	EXISTING VENT PIPE (PV) - SEE DETAIL 8/A1.05 - TYP.
RP5	EXISTING RTU TO BE REMOVED IN ITS ENTIRETY; PROVIDE INSULATED CURB CAP TO EXISTING ROOF CURB. REFER TO MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.
RP6	PROVIDE METAL FASCIA - TYP.
RP7	REMOVE EXISTING SKYLIGHT AND SALVAGE FOR REINSTALLATION. RAISE CURB PER DETAIL 6/A1.05.
RP8	INSTALL NEW METAL GUTTER AND DOWNSPOUT - SEE GUTTER AND DOWNSPOUT SCHEDULE.
RP9	EXISTING SCUPPER TO BE RAISED - REFER TO DETAIL 2/A1.06 AND 3/A1.06.
RP10	EXISTING SCUPPER AND DOWNSPOUT TO BE REMOVED AND SALVAGE FOR REINSTALLATION.
RP11	PROVIDE WALKWAY PADS ALL SIDES OF MECHANICAL EQUIPMENT.
RP12	REMOVE EXISTING HATCH AND PREP EXISTING ROOF CURB TO INSTALL A NEW ROOF HATCH.
RP13	REMOVE PORTION OF EXISTING ROOF SYSTEM, ROOF DECK, ROOF STRUCTURE AND PREP TO INSTALL NEW ROOF CURB AND RTU. - REFER TO MECHANICAL DRAWINGS FOR ADDITIONAL INSULATION.



1 **ROOF PLAN - AREA B**
1/8" = 1'-0"

GENERAL NOTES

1. REFER TO MECHANICAL AND ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.

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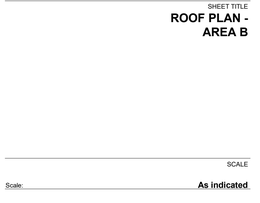
KEY PLAN



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REFERENCE SCALE IN INCHES
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REVISIONS

No.	Date	Revision / Issue

SHEET INFORMATION

Issue	**BID DOCUMENTS**
Date	**01-28-2022**
Job Number	**21011.40**
Drawn	**Author**
Checked	**Checker**
Approved	**Approver**

SHEET TITLE
ROOF PLAN - AREA B

SCALE
Scale: **As indicated**

SHEET NUMBER
A1.04B

GENERAL ROOF NOTES

1. EACH BIDDER SHALL VISIT THE SITE OF PROPOSED WORK AND FULLY ACQUAINT THEMSELVES WITH CONDITIONS RELATING TO CONSTRUCTION AND LABOR SO THAT THEY MAY FULLY UNDERSTAND THE FACILITIES, DIFFICULTIES, AND RESTRICTIONS AFFECTING THE COMPLETION OF THE WORK INCLUDED UNDER THE CONTRACT.
2. FIELD VERIFY AND COORDINATE ITEMS, DIMENSIONS, CONDITIONS, AND QUANTITIES, ETC. NOTIFY ARCHITECT OF ANY APPARENT DISCREPANCIES.
3. ITEMS INDICATED AS EXISTING ARE TO REMAIN. UON.
4. CONTRACTOR TO AVOID EXISTING ROOF AREAS WHERE NO WORK IS REQUIRED. DO NOT STAGE MATERIALS ON EXISTING ROOF AREAS. DAMAGE TO EXISTING ROOF AREAS CAUSED BY CONSTRUCTION SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO REPAIR OR REPLACE AND PROVIDE A WEATHERTIGHT CONDITION THAT MATCHES THE EXISTING ROOFING SYSTEM.
5. PROVIDE MATERIALS AND PERFORM WORK TO PROVIDE A COMPLETE WEATHERTIGHT CONDITION. ROOF WORK SHALL BE PERFORMED IN STRICT ACCORDANCE WITH THE ROOF MEMBRANE MANUFACTURER'S WRITTEN REQUIREMENTS.
6. CONTRACTOR SHALL BE RESPONSIBLE FOR EXTENDING AND ADJUSTING EXISTING ITEMS ON THE ROOF WHETHER SHOWN OR NOT INCLUDING, BUT NOT LIMITED TO CURBS, MECHANICAL ITEMS, GAS PIPING, ELECTRICAL DEVICES, CONDUITS, FANS, STACKS, VENTS, DRAINS, ETC. PER EQUIPMENT MANUFACTURER'S WRITTEN REQUIREMENTS.
7. LOCATION OF EXISTING ROOF TOP MECHANICAL EQUIPMENT IS DIAGRAMMATIC. CONTRACTOR TO FIELD VERIFY EXACT QUANTITIES AND LOCATIONS.
8. INSPECT EXISTING ROOF DECK AFTER TEAR-OFF AT ROOF AREAS TO BE REMOVED DOWN TO EXISTING ROOF DECK. NOTIFY ARCHITECT OF DAMAGED OR DETERIORATED ROOF DECK.
9. REPAIR OR REPLACE ROOF DECK DAMAGED DURING TEAR-OFF AT NO COST TO THE OWNER.
10. REPLACE EXISTING DAMAGED WOOD NAILERS AS REQUIRED.
11. ROOFING DETAILS MUST MEET THE REQUIREMENTS OF THE ROOFING MANUFACTURE TO OBTAIN THE ROOFING WARRANTY AS SPECIFIED.
12. METAL ROOF EDGE SECUREMENT COMPONENTS SHALL MEET REQUIREMENTS OF ANSI/SPRI ES-1.
13. ADJUST EXISTING ROOF DRAIN HEIGHTS AS REQUIRED TO MEET NEW INSULATION HEIGHTS, VIF.
14. PATCH EXISTING SURFACES AND FINISHES AFFECTED BY THE WORK WITH MATERIALS CONSISTENT WITH EXISTING CONSTRUCTION WHETHER OR NOT PATCH MATERIAL IS INDICATED ON DRAWINGS.

EXISTING ROOF DRAINS

1. AT EXISTING ROOF DRAIN (RD), INSPECT ROOF DRAIN ASSEMBLIES AT EXISTING ROOF DRAINS TO REMAIN. REPAIR AND REPLACE ITEMS AND CONNECTIONS TO ASSURE A WEATHERTIGHT CONDITION AFTER WORK IS COMPLETED. REMOVE AND REPLACE EXISTING CLAMPING RINGS, LUGS, CLAMPING DEVICES, STRAINERS, ETC. AND REPLACE WITH NEW ITEMS COMPATIBLE WITH EXISTING ASSEMBLY. PATCH DAMAGED EXISTING PIPE INSULATION AS REQUIRED FOR A COMPLETE ENCLOSURE OF DRAIN BODY AND STORM PIPING. AFTER NEW ROOF SYSTEM IS INSTALLED, CLEAN AND ROD EXISTING ROOF DRAIN LINES AND LEADERS FOR PROPER OPERATION FROM ROOF TO POINT OF DISCHARGE ONTO GRADE OR INTO STORM SEWER TO PROVIDE A COMPLETE AND PROPER FUNCTIONING SYSTEM TO INSURE POSITIVE DRAINAGE, TYP.

ROOF PLAN KEY NOTES

RP1	AFTER EXHAUST FAN HAS BEEN REMOVED; PROVIDE INSULATED CURB CAP - REFER TO DETAIL 4/A1.05. REFER TO MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION
RP2	REMOVE EXISTING LADDER AND SALVAGE FOR REINSTALLATION.
RP3	EXISTING ANTENNA TO REMAIN; PROVIDE FLASHING AT BASE PER ROOFING MANUFACTURER'S RECOMMENDATION.
RP4	EXISTING VENT PIPE (PV) - SEE DETAIL 8/A1.05 - TYP.
RP5	EXISTING RTU TO BE REMOVED IN ITS ENTIRETY; PROVIDE INSULATED CURB CAP TO EXISTING ROOF CURB. REFER TO MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.
RP6	PROVIDE METAL FASCIA - TYP.
RP7	REMOVE EXISTING SKYLIGHT AND SALVAGE FOR REINSTALLATION. RAISE CURB PER DETAIL 6/A1.05.
RP8	REMOVE EXISTING METAL GUTTER AND DOWNSPOUT AND INSTALL NEW METAL GUTTER AND DOWNSPOUT - SEE GUTTER AND DOWNSPOUT SCHEDULE.
RP9	EXISTING SCUPPER TO BE RAISED - REFER TO DETAIL 1/A1.06 AND 2/A1.06.
RP10	NOT USED ON THIS SHEET.
RP11	PROVIDE WALKWAY PADS ALL SIDES OF MECHANICAL EQUIPMENT.
RP12	REMOVE EXISTING HATCH AND PREP EXISTING ROOF CURB TO INSTALL A NEW ROOF HATCH. REFER TO DETAIL 5/A1.07.
RP13	REMOVE PORTION OF EXISTING ROOF SYSTEM, ROOF DECK, ROOF STRUCTURE AND PREP TO INSTALL NEW ROOF CURB AND RTU. - REFER TO MECHANICAL DRAWINGS FOR ADDITIONAL INSULATION. REFER TO DETAIL 9/A1.05.

ROOFING NOTES

1. VERIFY THE OPERATING CONDITION OF EXISTING ROOFTOP EQUIPMENT TO REMAIN PRIOR TO THE START OF THE WORK, AND AFTER WORK IS COMPLETED. REPORT OBSERVED CONDITIONS IN WRITING TO THE ARCHITECT. EXISTING EQUIPMENT AFFECTED BY THE WORK WHICH IS NOT IN PROPER OPERATING CONDITION AFTER WORK IS COMPLETED SHALL BE REPAIRED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
2. TERMINATE COPINGS, FASCIAS, EXPANSION JOINTS, ETC. AS REQUIRED TO PROVIDE A WEATHERTIGHT CONNECTION BETWEEN ADJACENT SURFACES.
3. THE DESIGN INTENT OF THE PERIMENTER ROOF EDGE IS TO MAINTAIN A CONSTANT TOP OF METAL FASCIA ELEVATION. PROVIDE TAPERED EDGE STRIPS ALONG THE PERIMETER AS REQUIRED TO MAINTAIN A CONSTANT TOP OF METAL FASCIA ELEVATION.
4. NEW ROOF SYSTEMS CONSIST OF TPO ROOFING SYSTEM ON RIGID TAPERED INSULATION ON EXISTING ROOF DECK.
5. **EXISTING ROOFING SYSTEMS ARE ASSUMED TO BE AS INDICATED BELOW**; CONTRACTOR TO FIELD VERIFY.

ROOF A1, A2, A3, A4, A5, A6, A7, A9, A10, A11, A12 B, B2, D1, D2, C4, C5, C6:
BUILT-UP GRAVEL ROOFING SYSTEM ON APPROXIMATELY 2" INSULATION ON EXISTING CONCRETE ROOF DECK. REMOVE EXISTING ROOFING SYSTEMS IN THEIR ENTIRETY DOWN TO EXISTING ROOF DECK. PROVIDE TPO ROOFING SYSTEM ON TAPERED INSULATION OVER EXISTING ROOF DECK.

ROOF C1, C2, C3, C7, C8:
BUILT-UP GRAVEL ROOFING SYSTEM ON APPROXIMATELY 2" INSULATION ON EXISTING METAL ROOF DECK. REMOVE EXISTING ROOFING SYSTEMS IN THEIR ENTIRETY DOWN TO EXISTING ROOF DECK. PROVIDE TPO ROOFING SYSTEM ON TAPERED INSULATION OVER EXISTING ROOF DECK.

ROOF E1 (ALTERNATE):
TPO ROOFING SYSTEM ON RIGID INSULATION ON EXISTING METAL DECK. REMOVE PORTION OF EXISTING ROOF INCLUDING EXISTING ROOF DECK TO PROVIDE ROOF CURB FOR ROOF TOP UNITS. REFER TO MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.

ROOF A8, E2, E3, E4, E5, E6, E7, E8:
EXISTING ROOF SYSTEM TO REMAIN, UON.

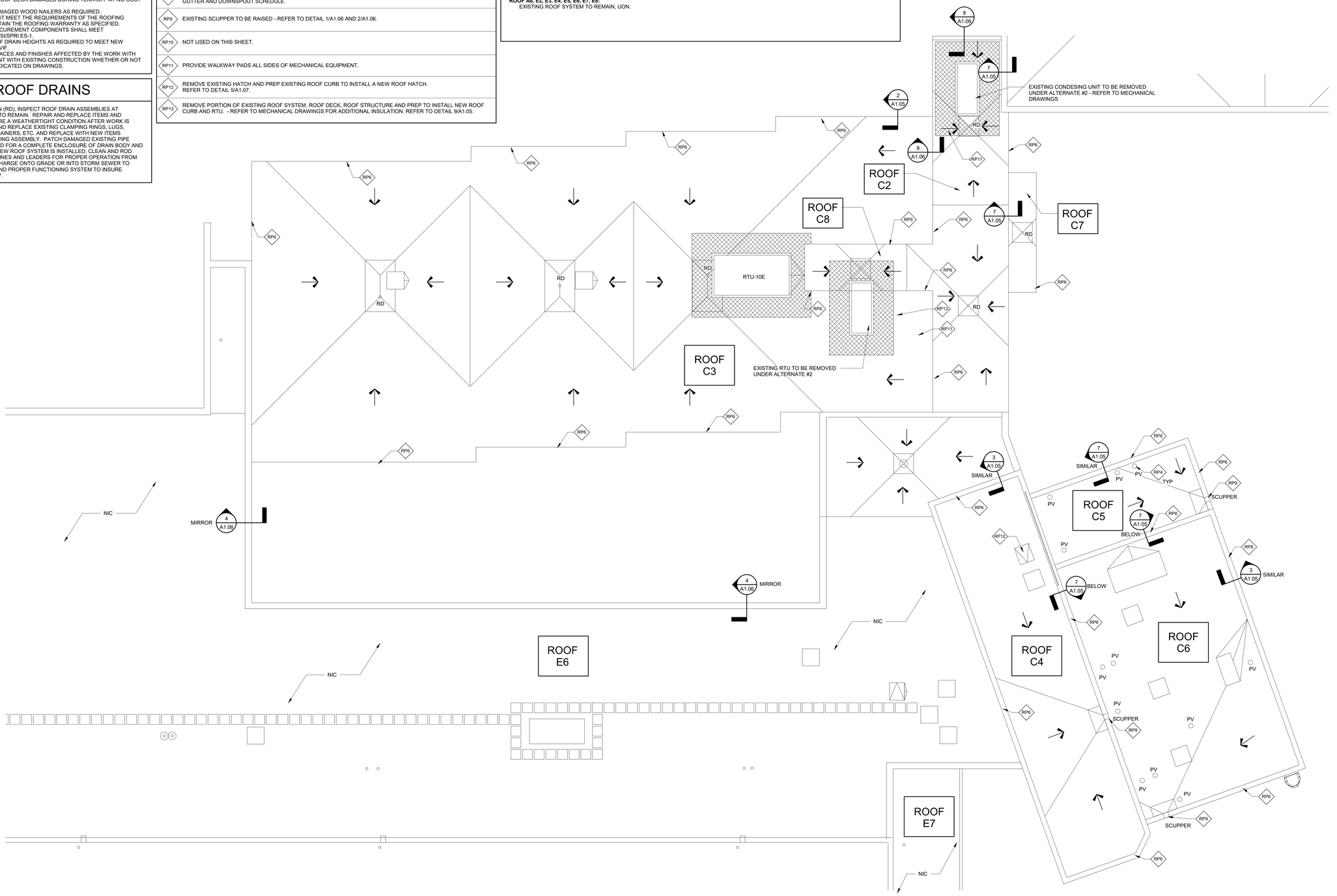
GENERAL NOTES

1. REFER TO MECHANICAL AND ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.

ANSI SPRI ES-1 DESIGN CRITERIA

HORIZONTAL DESIGN PRESSURE (OUTWARD PRESSURE):
PERIMETER = 32 PSF
CORNER = 40 PSF

VERTICAL DESIGN PRESSURE:
PERIMETER = 55 PSF
CORNER = 83 PSF



1 **ROOF PLAN - AREA C**
1/8" = 1'-0"

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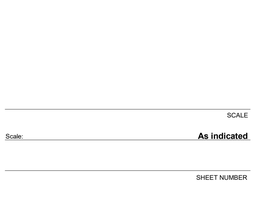
KEY PLAN



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REFERENCE SCALE IN INCHES
0 1 2

REVISIONS

No.	Date	Revision / Issue

SHEET INFORMATION

Issue	**BID DOCUMENTS**
Date	**01-28-2022**
Job Number	**21011.40**
Drawn	**Author**
Checked	**Checker**
Approved	**Approver**

SHEET TITLE
ROOF PLAN - AREA C

SCALE
Scale: **As indicated**

SHEET NUMBER
A1.04C

GENERAL ROOF NOTES

1. EACH BIDDER SHALL VISIT THE SITE OF PROPOSED WORK AND FULLY ACQUAINT THEMSELVES WITH CONDITIONS RELATING TO CONSTRUCTION AND LABOR SO THAT THEY MAY FULLY UNDERSTAND THE FACILITIES, DIFFICULTIES, AND RESTRICTIONS AFFECTING THE COMPLETION OF THE WORK INCLUDED UNDER THE CONTRACT.
2. FIELD VERIFY AND COORDINATE ITEMS, DIMENSIONS, CONDITIONS, AND QUANTITIES, ETC. NOTIFY ARCHITECT OF ANY APPARENT DISCREPANCIES.
3. ITEMS INDICATED AS EXISTING ARE TO REMAIN. UON.
4. CONTRACTOR TO AVOID EXISTING ROOF AREAS WHERE NO WORK IS REQUIRED. DO NOT STAGE MATERIALS ON EXISTING ROOF AREAS. DAMAGE TO EXISTING ROOF AREAS CAUSED BY CONSTRUCTION SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO REPAIR OR REPLACE AND PROVIDE A WEATHERTIGHT CONDITION THAT MATCHES THE EXISTING ROOFING SYSTEM.
5. PROVIDE MATERIALS AND PERFORM WORK TO PROVIDE A COMPLETE WEATHERTIGHT CONDITION. ROOF WORK SHALL BE PERFORMED IN STRICT ACCORDANCE WITH THE ROOF MEMBRANE MANUFACTURER'S WRITTEN REQUIREMENTS.
6. CONTRACTOR SHALL BE RESPONSIBLE FOR EXTENDING AND ADJUSTING EXISTING ITEMS ON THE ROOF WHETHER SHOWN OR NOT INCLUDING, BUT NOT LIMITED TO CURBS, MECHANICAL ITEMS, GAS PIPING, ELECTRICAL DEVICES, CONDUITS, FANS, STACKS, VENTS, DRAINS, ETC. PER EQUIPMENT MANUFACTURER'S WRITTEN REQUIREMENTS.
7. LOCATION OF EXISTING ROOF TOP MECHANICAL EQUIPMENT IS DIAGRAMMATIC. CONTRACTOR TO FIELD VERIFY EXACT QUANTITIES AND LOCATIONS.
8. INSPECT EXISTING ROOF DECK AFTER TEAR-OFF AT ROOF AREAS TO BE REMOVED DOWN TO EXISTING ROOF DECK. NOTIFY ARCHITECT OF DAMAGED OR DETERIORATED ROOF DECK.
9. REPAIR OR REPLACE ROOF DECK DAMAGED DURING TEAR-OFF AT NO COST TO THE OWNER.
10. REPLACE EXISTING DAMAGED WOOD NAILERS AS REQUIRED.
11. ROOFING DETAILS MUST MEET THE REQUIREMENTS OF THE ROOFING MANUFACTURE TO OBTAIN THE ROOFING WARRANTY AS SPECIFIED.
12. METAL ROOF EDGE SECUREMENT COMPONENTS SHALL MEET REQUIREMENTS OF ANSI/SPRI ES-1.
13. ADJUST EXISTING ROOF DRAIN HEIGHTS AS REQUIRED TO MEET NEW INSULATION HEIGHTS, VIF.
14. PATCH EXISTING SURFACES AND FINISHES AFFECTED BY THE WORK WITH MATERIALS CONSISTENT WITH EXISTING CONSTRUCTION WHETHER OR NOT PATCH MATERIAL IS INDICATED ON DRAWINGS.

EXISTING ROOF DRAINS

1. AT EXISTING ROOF DRAIN (RD), INSPECT ROOF DRAIN ASSEMBLIES AT EXISTING ROOF DRAINS TO REMAIN. REPAIR AND REPLACE ITEMS AND CONNECTIONS TO ASSURE A WEATHERTIGHT CONDITION AFTER WORK IS COMPLETED. REMOVE AND REPLACE EXISTING CLAMPING RINGS, LUGS, CLAMPING DEVICES, STRAINERS, ETC. AND REPLACE WITH NEW ITEMS COMPATIBLE WITH EXISTING ASSEMBLY. PATCH DAMAGED EXISTING PIPE INSULATION AS REQUIRED FOR A COMPLETE ENCLOSURE OF DRAIN BODY AND STORM PIPING. AFTER NEW ROOF SYSTEM IS INSTALLED, CLEAN AND ROD EXISTING ROOF DRAIN LINES AND LEADERS FOR PROPER OPERATION FROM ROOF TO POINT OF DISCHARGE ONTO GRADE OR INTO STORM SEWER TO PROVIDE A COMPLETE AND PROPER FUNCTIONING SYSTEM TO INSURE POSITIVE DRAINAGE, TYP.

ROOFING NOTES

1. VERIFY THE OPERATING CONDITION OF EXISTING ROOFTOP EQUIPMENT TO REMAIN PRIOR TO THE START OF THE WORK, AND AFTER WORK IS COMPLETED. REPORT OBSERVED CONDITIONS IN WRITING TO THE ARCHITECT. EXISTING EQUIPMENT AFFECTED BY THE WORK WHICH IS NOT IN PROPER OPERATING CONDITION AFTER WORK IS COMPLETED SHALL BE REPAIRED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.

2. TERMINATE COPINGS, FASCIAS, EXPANSION JOINTS, ETC. AS REQUIRED TO PROVIDE A WEATHERTIGHT CONNECTION BETWEEN ADJACENT SURFACES.

3. THE DESIGN INTENT OF THE PERIMENTER ROOF EDGE IS TO MAINTAIN A CONSTANT TOP OF METAL FASCIA ELEVATION. PROVIDE TAPERED EDGE STRIPS ALONG THE PERIMETER AS REQUIRED TO MAINTAIN A CONSTANT TOP OF METAL FASCIA ELEVATION.

4. NEW ROOF SYSTEMS CONSIST OF TPO ROOFING SYSTEM ON RIGID TAPERED INSULATION ON EXISTING ROOF DECK.

5. **EXISTING ROOFING SYSTEMS ARE ASSUMED TO BE AS INDICATED BELOW**; CONTRACTOR TO FIELD VERIFY.

ROOF A1, A2, A3, A4, A5, A6, A7, A9, A10, A11, A12 B, B2, D1, D2, C4, C5, C6:
BUILT-UP GRAVEL ROOFING SYSTEM ON APPROXIMATELY 2" INSULATION ON EXISTING CONCRETE ROOF DECK. REMOVE EXISTING ROOFING SYSTEMS IN THEIR ENTIRETY DOWN TO EXISTING ROOF DECK. PROVIDE TPO ROOFING SYSTEM ON TAPERED INSULATION OVER EXISTING ROOF DECK.

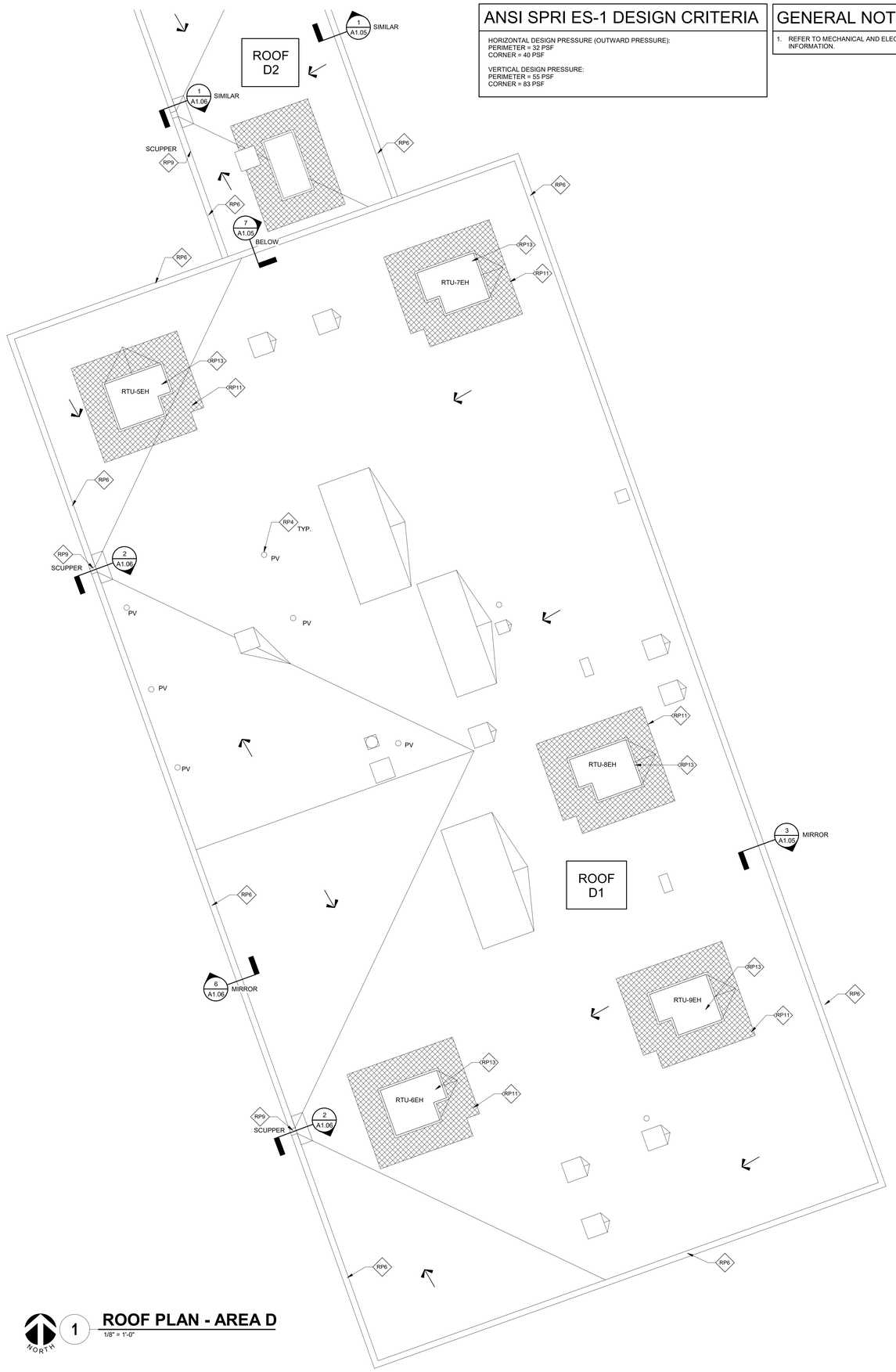
ROOF C1, C2, C3, C7, C8:
BUILT-UP GRAVEL ROOFING SYSTEM ON APPROXIMATELY 2" INSULATION ON EXISTING METAL ROOF DECK. REMOVE EXISTING ROOFING SYSTEMS IN THEIR ENTIRETY DOWN TO EXISTING ROOF DECK. PROVIDE TPO ROOFING SYSTEM ON TAPERED INSULATION OVER EXISTING ROOF DECK.

ROOF E1 (ALTERNATE):
TPO ROOFING SYSTEM ON RIGID INSULATION ON EXISTING METAL DECK. REMOVE PORTION OF EXISTING ROOF INCLUDING EXISTING ROOF DECK TO PROVIDE ROOF CURB FOR ROOF TOP UNITS. REFER TO MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.

ROOF A8, E2, E3, E4, E5, E6, E7, E8:
EXISTING ROOF SYSTEM TO REMAIN, UON.

ROOF PLAN KEY NOTES

RP1	AFTER EXHAUST FAN HAS BEEN REMOVED; PROVIDE INSULATED CURB CAP - REFER TO DETAIL 4/A1.07. REFER TO MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION
RP2	REMOVE EXISTING LADDER AND SALVAGE FOR REINSTALLATION.
RP3	EXISTING ANTENNA AND GUIDE WIRES TO REMAIN; PROVIDE FLASHING AT BASE PER ROOFING MANUFACTURER'S RECOMMENDATION.
RP4	EXISTING VENT PIPE (PV) - SEE DETAIL 8/A1.05 - TYP.
RP5	EXISTING RTU TO BE REMOVED IN ITS ENTIRETY; PROVIDE INSULATED CURB CAP TO EXISTING ROOF CURB. REFER TO MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.
RP6	PROVIDE METAL FASCIA - TYP.
RP7	REMOVE EXISTING SKYLIGHT AND SALVAGE FOR REINSTALLATION. RAISE CURB PER DETAIL 6/A1.05.
RP8	REMOVE EXISTING METAL GUTTER AND DOWNSPOUT AND INSTALL NEW METAL GUTTER AND DOWNSPOUT - SEE GUTTER AND DOWNSPOUT SCHEDULE.
RP9	EXISTING SCUPPER TO BE RAISED - REFER TO DETAIL 2/A1.06 AND 3/A1.06.
RP10	EXISTING SCUPPER AND DOWNSPOUT TO BE REMOVED AND SALVAGE FOR REINSTALLATION.
RP11	PROVIDE WALKWAY PADS ALL SIDES OF MECHANICAL EQUIPMENT.
RP12	REMOVE EXISTING HATCH AND PREP EXISTING ROOF CURB TO INSTALL A NEW ROOF HATCH.
RP13	REMOVE PORTION OF EXISTING ROOF SYSTEM, ROOF DECK, ROOF STRUCTURE AND PREP TO INSTALL NEW ROOF CURB AND RTU. - REFER TO MECHANICAL DRAWINGS FOR ADDITIONAL INSULATION.
RP14	REINSTALL EXISTING CONDENSING UNIT.



1 NORTH

ROOF PLAN - AREA D
1/8" = 1'-0"

ANSI SPRI ES-1 DESIGN CRITERIA

HORIZONTAL DESIGN PRESSURE (OUTWARD PRESSURE):
PERIMETER = 32 PSF
CORNER = 40 PSF

VERTICAL DESIGN PRESSURE:
PERIMETER = 55 PSF
CORNER = 83 PSF

GENERAL NOTES

1. REFER TO MECHANICAL AND ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.

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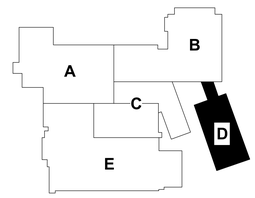

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REVISIONS

No.	Date	Revision / Issue

SHEET INFORMATION

Issue	**BID DOCUMENTS**
Date	**01-28-2022**
Job Number	**21011.40**
Drawn	**Author**
Checked	**Checker**
Approved	**Approver**

SHEET TITLE
ROOF PLAN - AREA D

SCALE
Scale: **As indicated**

SHEET NUMBER
A1.04D

GENERAL ROOF NOTES

1. EACH BIDDER SHALL VISIT THE SITE OF PROPOSED WORK AND FULLY ACQUAINT THEMSELVES WITH CONDITIONS RELATING TO CONSTRUCTION AND LABOR SO THAT THEY MAY FULLY UNDERSTAND THE FACILITIES, DIFFICULTIES, AND RESTRICTIONS AFFECTING THE COMPLETION OF THE WORK INCLUDED UNDER THE CONTRACT.
2. FIELD VERIFY AND COORDINATE ITEMS, DIMENSIONS, CONDITIONS, AND QUANTITIES, ETC. NOTIFY ARCHITECT OF ANY APPARENT DISCREPANCIES.
3. ITEMS INDICATED AS EXISTING ARE TO REMAIN, UON.
4. CONTRACTOR TO AVOID EXISTING ROOF AREAS WHERE NO WORK IS REQUIRED. DO NOT STAGE MATERIALS ON EXISTING ROOF AREAS. DAMAGE TO EXISTING ROOF AREAS CAUSED BY CONSTRUCTION SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO REPAIR OR REPLACE AND PROVIDE A WEATHERTIGHT CONDITION THAT MATCHES THE EXISTING ROOFING SYSTEM.
5. PROVIDE MATERIALS AND PERFORM WORK TO PROVIDE A COMPLETE WEATHERTIGHT CONDITION. ROOF WORK SHALL BE PERFORMED IN STRICT ACCORDANCE WITH THE ROOF MEMBRANE MANUFACTURER'S WRITTEN REQUIREMENTS.
6. CONTRACTOR SHALL BE RESPONSIBLE FOR EXTENDING AND ADJUSTING EXISTING ITEMS ON THE ROOF WHETHER SHOWN OR NOT INCLUDING, BUT NOT LIMITED TO CURBS, MECHANICAL ITEMS, GAS PIPING, ELECTRICAL DEVICES, CONDUITS, FANS, STACKS, VENTS, DRAINS, ETC. PER EQUIPMENT MANUFACTURER'S WRITTEN REQUIREMENTS.
7. LOCATION OF EXISTING ROOF TOP MECHANICAL EQUIPMENT IS DIAGRAMMATIC. CONTRACTOR TO FIELD VERIFY EXACT QUANTITIES AND LOCATIONS.
8. INSPECT EXISTING ROOF DECK AFTER TEAR-OFF AT ROOF AREAS TO BE REMOVED DOWN TO EXISTING ROOF DECK. NOTIFY ARCHITECT OF DAMAGED OR DETERIORATED ROOF DECK.
9. REPAIR OR REPLACE ROOF DECK DAMAGED DURING TEAR-OFF AT NO COST TO THE OWNER.
10. REPLACE EXISTING DAMAGED WOOD NAILERS AS REQUIRED.
11. ROOFING DETAILS MUST MEET THE REQUIREMENTS OF THE ROOFING MANUFACTURE TO OBTAIN THE ROOFING WARRANTY AS SPECIFIED.
12. METAL ROOF EDGE SECUREMENT COMPONENTS SHALL MEET REQUIREMENTS OF ANSI/SPRI ES-1.
13. ADJUST EXISTING ROOF DRAIN HEIGHTS AS REQUIRED TO MEET NEW INSULATION HEIGHTS, VIF.
14. PATCH EXISTING SURFACES AND FINISHES AFFECTED BY THE WORK WITH MATERIALS CONSISTENT WITH EXISTING CONSTRUCTION WHETHER OR NOT PATCH MATERIAL IS INDICATED ON DRAWINGS.

EXISTING ROOF DRAINS

1. AT EXISTING ROOF DRAIN (RD), INSPECT ROOF DRAIN ASSEMBLIES AT EXISTING ROOF DRAINS TO REMAIN. REPAIR AND REPLACE ITEMS AND CONNECTIONS TO ASSURE A WEATHERTIGHT CONDITION AFTER WORK IS COMPLETED. REMOVE AND REPLACE EXISTING CLAMPING RINGS, LUGS, CLAMPING DEVICES, STRAINERS, ETC. AND REPLACE WITH NEW ITEMS COMPATIBLE WITH EXISTING ASSEMBLY. PATCH DAMAGED EXISTING PIPE INSULATION AS REQUIRED FOR A COMPLETE ENCLOSURE OF DRAIN BODY AND STORM PIPING. AFTER NEW ROOF SYSTEM IS INSTALLED, CLEAN AND ROD EXISTING ROOF DRAIN LINES AND LEADERS FOR PROPER OPERATION FROM ROOF TO POINT OF DISCHARGE ONTO GRADE OR INTO STORM SEWER TO PROVIDE A COMPLETE AND PROPER FUNCTIONING SYSTEM TO INSURE POSITIVE DRAINAGE, TYP.

ROOF PLAN KEY NOTES

RP1	AFTER EXHAUST FAN HAS BEEN REMOVED; PROVIDE INSULATED CURB CAP - REFER TO DETAIL 4/A1.05. REFER TO MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION
RP2	REMOVE EXISTING LADDER AND SALVAGE FOR REINSTALLATION.
RP3	EXISTING ANTENNA TO REMAIN; PROVIDE FLASHING AT BASE PER ROOFING MANUFACTURER'S RECOMMENDATION.
RP4	EXISTING VENT PIPE (PV) - SEE DETAIL 8/A1.05 - TYP.
RP5	EXISTING RTU TO BE REMOVED IN ITS ENTIRETY; PROVIDE INSULATED CURB CAP TO EXISTING ROOF CURB. REFER TO MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.
RP6	PROVIDE METAL FASCIA - TYP.
RP7	REMOVE EXISTING SKYLIGHT AND SALVAGE FOR REINSTALLATION. RAISE CURB PER DETAIL 6/A1.05..
RP8	REMOVE EXISTING METAL GUTTER AND DOWNSPOUT AND INSTALL NEW METAL GUTTER AND DOWNSPOUT - SEE GUTTER AND DOWNSPOUT SCHEDULE.
RP9	EXISTING SCUPPER TO BE RAISED - REFER TO DETAIL 2/A1.06 AND 3/A1.06.
RP10	EXISTING SCUPPER AND DOWNSPOUT TO BE REMOVED AND SALVAGE FOR REINSTALLATION.
RP11	PROVIDE WALKWAY PADS ALL SIDES OF MECHANICAL EQUIPMENT.
RP12	REMOVE EXISTING HATCH AND PREP EXISTING ROOF CURB TO INSTALL A NEW ROOF HATCH.
RP13	REMOVE PORTION OF EXISTING ROOF SYSTEM, ROOF DECK, ROOF STRUCTURE AND PREP TO INSTALL NEW ROOF CURB AND RTU. - REFER TO MECHANICAL DRAWINGS FOR ADDITIONAL INSULATION.

ROOFING NOTES

1. VERIFY THE OPERATING CONDITION OF EXISTING ROOFTOP EQUIPMENT TO REMAIN PRIOR TO THE START OF THE WORK, AND AFTER WORK IS COMPLETED. REPORT OBSERVED CONDITIONS IN WRITING TO THE ARCHITECT. EXISTING EQUIPMENT AFFECTED BY THE WORK WHICH IS NOT IN PROPER OPERATING CONDITION AFTER WORK IS COMPLETED SHALL BE REPAIRED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
2. TERMINATE COPINGS, FASCIAS, EXPANSION JOINTS, ETC. AS REQUIRED TO PROVIDE A WEATHERTIGHT CONNECTION BETWEEN ADJACENT SURFACES.
3. THE DESIGN INTENT OF THE PERIMENTER ROOF EDGE IS TO MAINTAIN A CONSTANT TOP OF METAL FASCIA ELEVATION. PROVIDE TAPERED EDGE STRIPS ALONG THE PERIMETER AS REQUIRED TO MAINTAIN A CONSTANT TOP OF METAL FASCIA ELEVATION.
4. NEW ROOF SYSTEMS CONSIST OF TPO ROOFING SYSTEM ON RIGID TAPERED INSULATION ON EXISTING ROOF DECK.
5. **EXISTING ROOFING SYSTEMS ARE ASSUMED TO BE AS INDICATED BELOW**; CONTRACTOR TO FIELD VERIFY.

ROOF A1, A2, A3, A4, A5, A6, A7, A9, A10, A11, A12 B, B2, D1, D2, C4, C5, C6:
BUILT-UP GRAVEL ROOFING SYSTEM ON APPROXIMATELY 2" INSULATION ON EXISTING CONCRETE ROOF DECK. REMOVE EXISTING ROOFING SYSTEMS IN THEIR ENTIRETY DOWN TO EXISTING ROOF DECK. PROVIDE TPO ROOFING SYSTEM ON TAPERED INSULATION OVER EXISTING ROOF DECK.

ROOF C1, C2, C3, C7, C8:
BUILT-UP GRAVEL ROOFING SYSTEM ON APPROXIMATELY 2" INSULATION ON EXISTING METAL ROOF DECK. REMOVE EXISTING ROOFING SYSTEMS IN THEIR ENTIRETY DOWN TO EXISTING ROOF DECK. PROVIDE TPO ROOFING SYSTEM ON TAPERED INSULATION OVER EXISTING ROOF DECK.

ROOF E1 (ALTERNATE):
TPO ROOFING SYSTEM ON RIGID INSULATION ON EXISTING METAL DECK. REMOVE PORTION OF EXISTING ROOF INCLUDING EXISTING ROOF DECK TO PROVIDE ROOF CURB FOR ROOF TOP UNITS. REFER TO MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.

ROOF A8, E2, E3, E4, E5, E6, E7, E8:
EXISTING ROOF SYSTEM TO REMAIN, UON.

ANSI SPRI ES-1 DESIGN CRITERIA

HORIZONTAL DESIGN PRESSURE (OUTWARD PRESSURE):
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GENERAL NOTES

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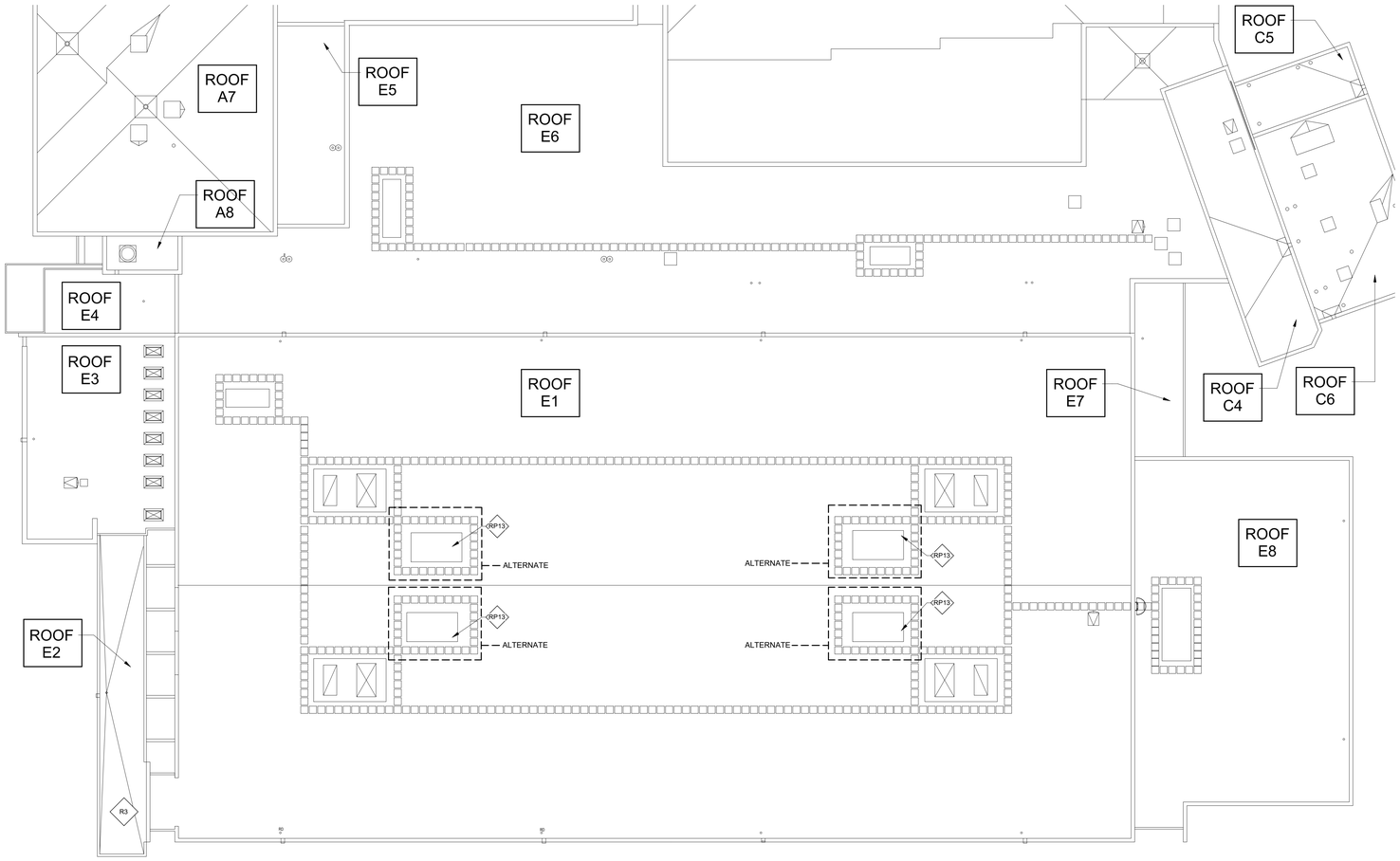

1 ROOF PLAN - AREA E

1/16" = 1'-0"

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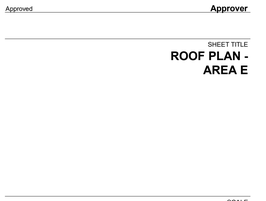

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REVISIONS

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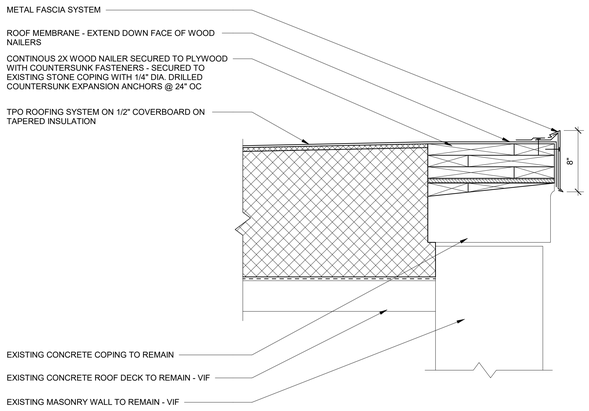
Drawn	**Author**
Checked	**Checker**
Approved	**Approver**

SHEET TITLE
ROOF PLAN - AREA E

SCALE
Scale: **As indicated**

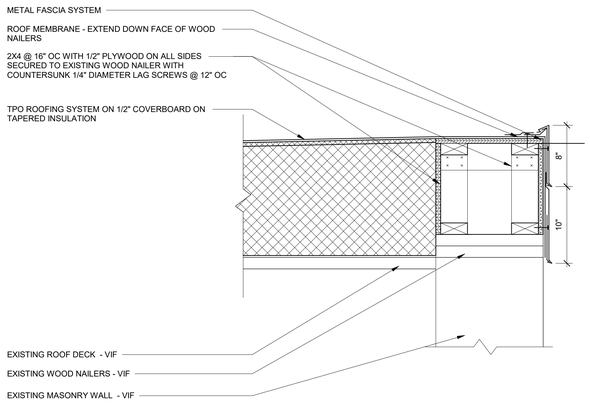
SHEET NUMBER
A1.04E

21011.40 1/28/2022 5:50:27 PM ESSER HVAC Improvements - East High School



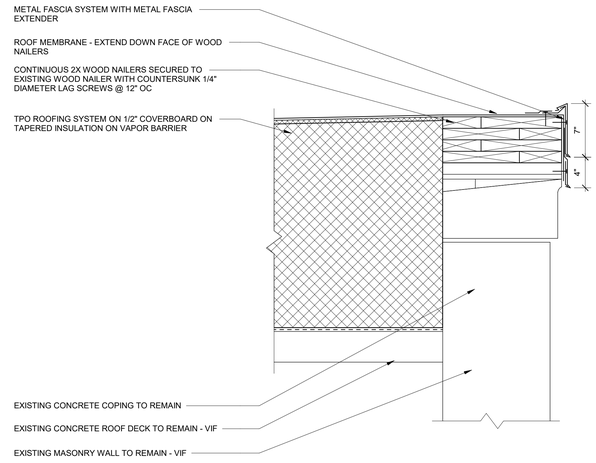
1 ROOF DETAIL A1

1 1/2" = 1'-0"



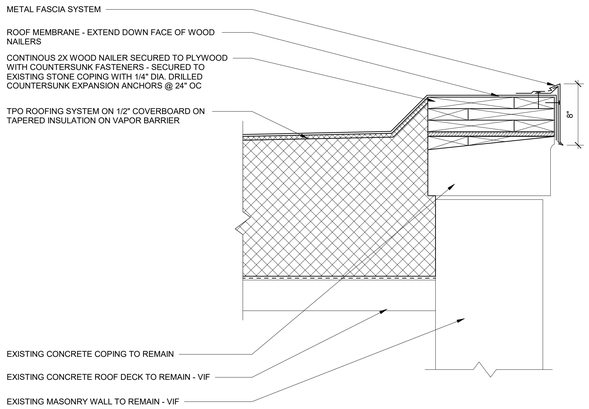
2 PARAPET DETAIL ROOF C3...

1 1/2" = 1'-0"



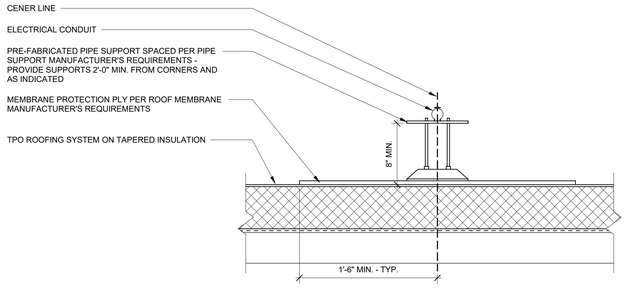
3 PARAPET DETAIL ROOF D1...

1 1/2" = 1'-0"



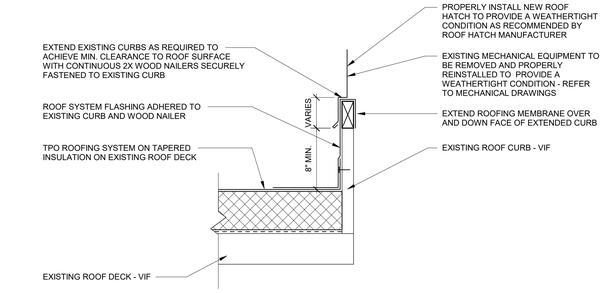
4 PARAPET DETAIL ROOF A7

1 1/2" = 1'-0"



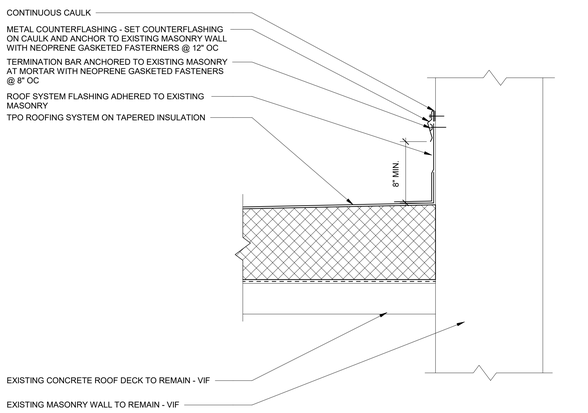
5 TYP. PRE-FABRICATED PIPE SUPPORT

1 1/2" = 1'-0"



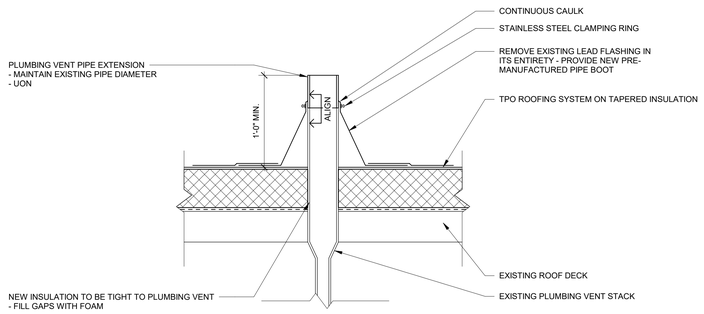
6 TYPICAL EXISTING ROOF CURB

1 1/2" = 1'-0"



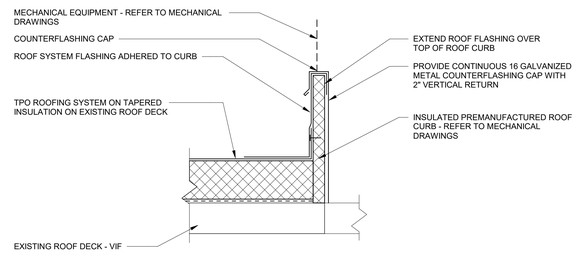
7 TYPICAL METAL COUNTERFLASHING DETAIL

1 1/2" = 1'-0"



8 TYPICAL PIPE PENETRATION DETAIL

1 1/2" = 1'-0"



9 TYPICAL ROOF CURB

1 1/2" = 1'-0"

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Approved	**Approver**

SHEET TITLE

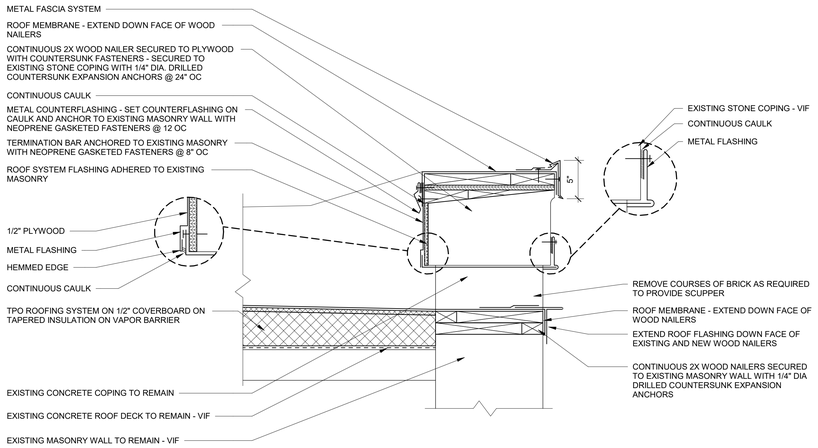
ROOF DETAILS

SCALE

Scale: **1 1/2" = 1'-0"**

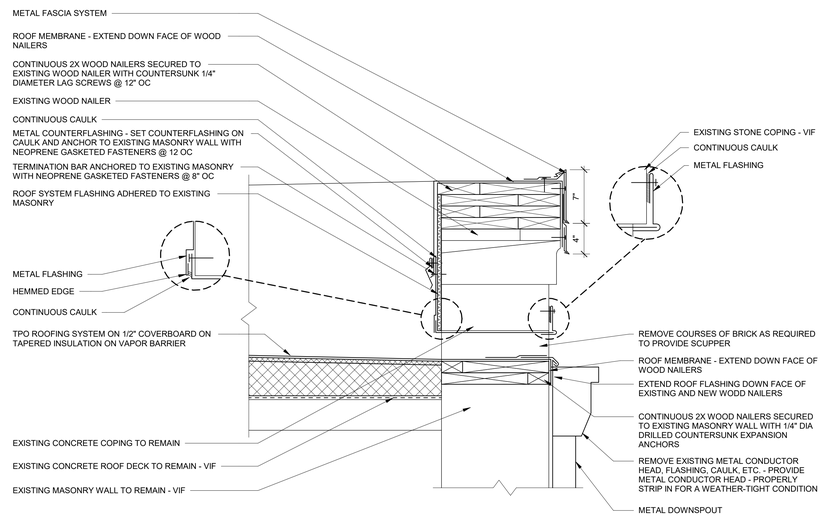
SHEET NUMBER

A1.05



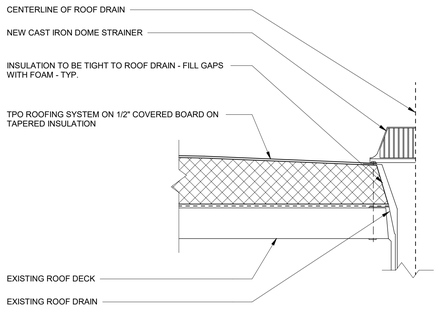
1 TYPICAL SCUPPER DETAIL ROOF A9

1 1/2" = 1'-0"



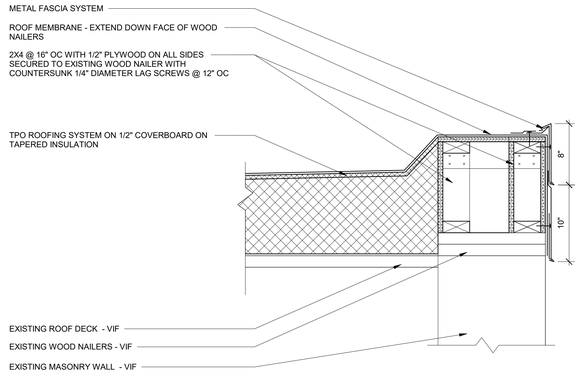
2 TYPICAL SCUPPER DETAIL ROOF D1

1 1/2" = 1'-0"



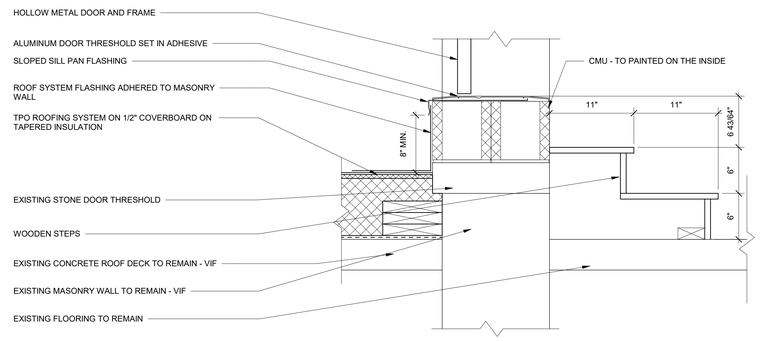
3 TYPICAL SUM AND ROOF DRAIN (RD)

1 1/2" = 1'-0"



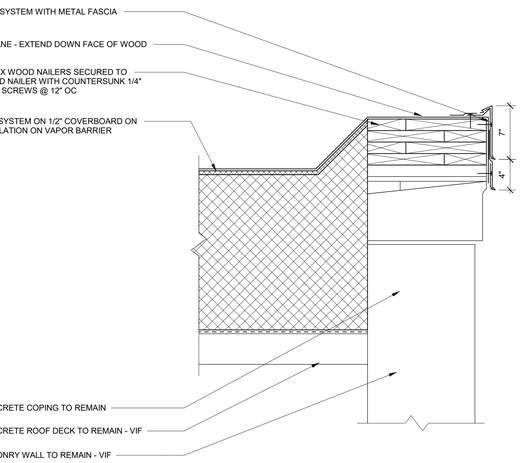
4 PARAPET DETAIL ROOF C3

1 1/2" = 1'-0"



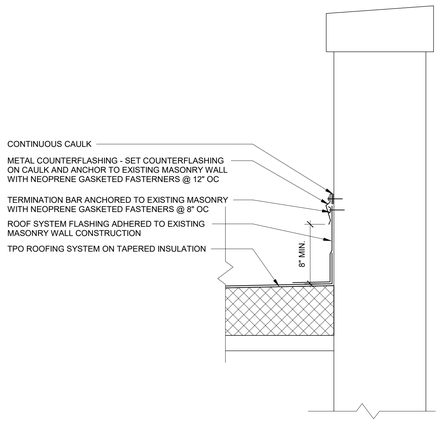
5 DOOR THRESHOLD DETAIL

1 1/2" = 1'-0"



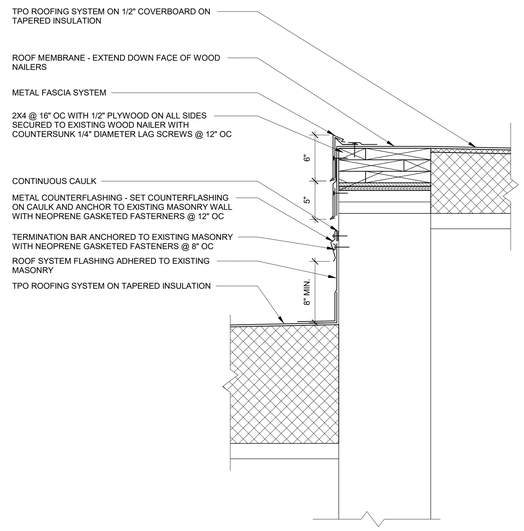
6 PARAPET DETAIL ROOF D1

1 1/2" = 1'-0"



7 PARAPET ROOF DETAIL

1 1/2" = 1'-0"



8 ROOF DETAIL

1 1/2" = 1'-0"

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REVISIONS

No.	Date	Revision / Issue

SHEET INFORMATION

Issue	**BID DOCUMENTS**
Date	**01-28-2022**
Job Number	**21011.40**
Drawn	**Author**
Checked	**Checker**
Approved	**Approver**

SHEET TITLE

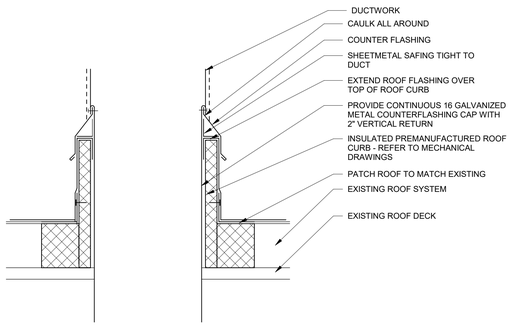
ROOF DETAILS

SCALE

Scale: **1 1/2" = 1'-0"**

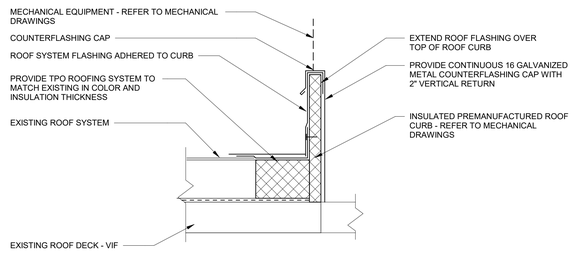
SHEET NUMBER

A1.06



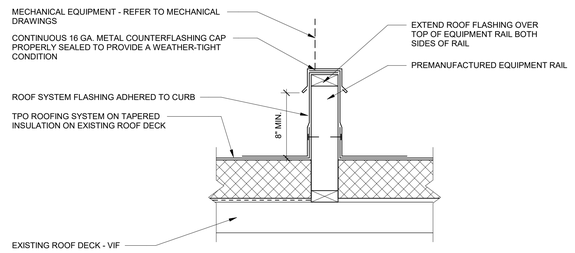
1 TYPICAL DUCTWORK ROOF PENETRATION DETAIL

1 1/2" = 1'-0"



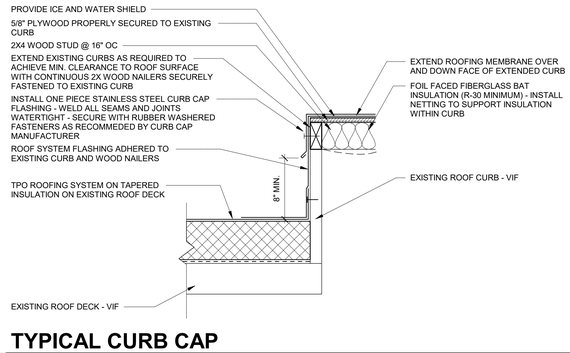
2 TYPICAL ROOF CURB AT EXISTING ROOF

1 1/2" = 1'-0"



3 TYPICAL EQUIPMENT RAIL

1 1/2" = 1'-0"



4 TYPICAL CURB CAP

1 1/2" = 1'-0"

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SHEET TITLE

ROOF DETAILS

SCALE

Scale: **1 1/2" = 1'-0"**

SHEET NUMBER

A1.07

GENERAL NOTES

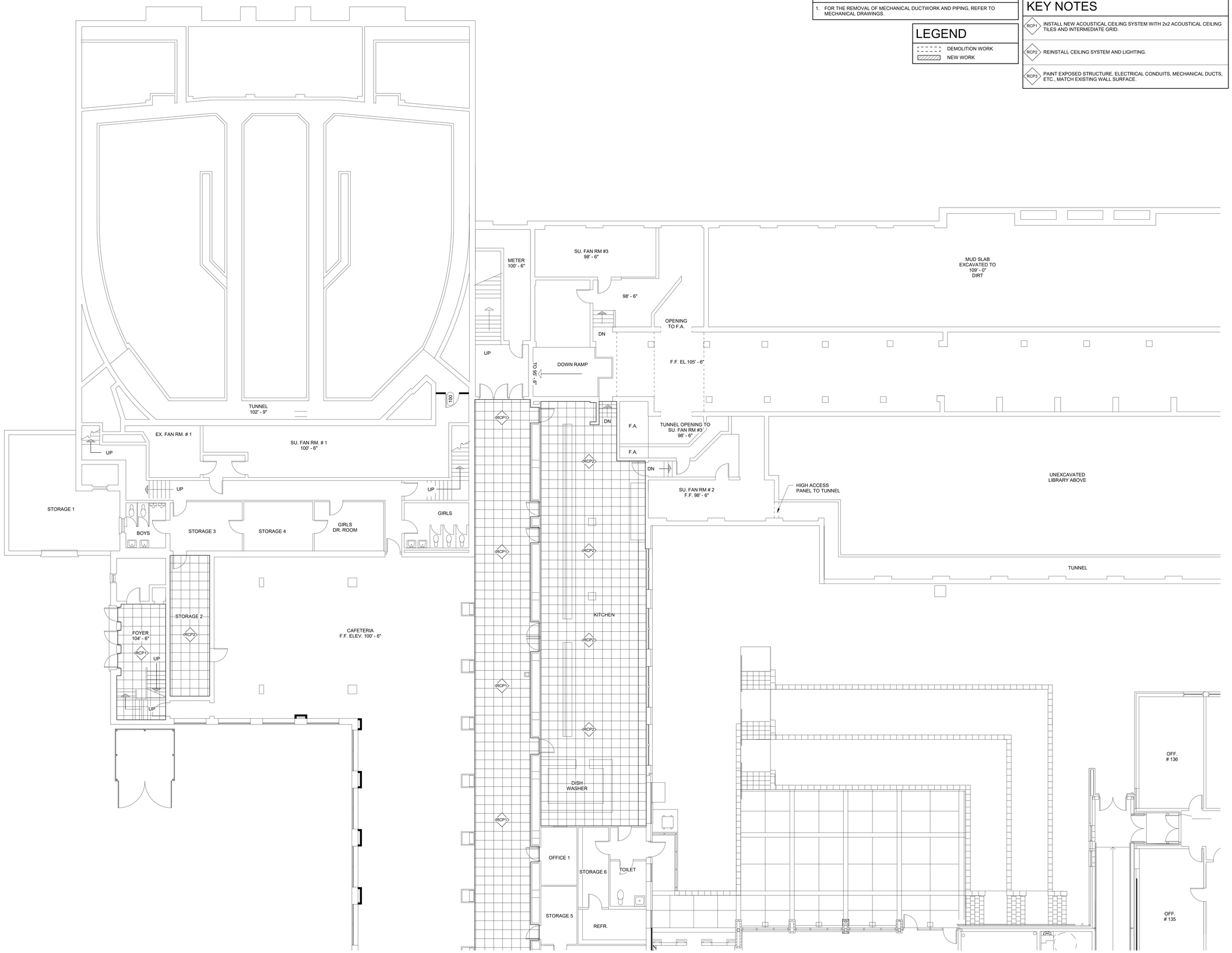
1. FOR THE REMOVAL OF MECHANICAL DUCTWORK AND PIPING, REFER TO MECHANICAL DRAWINGS.

LEGEND

- DEMOLITION WORK
- NEW WORK

REFLECTED CEILING PLAN KEY NOTES

- RCP1: INSTALL NEW ACOUSTICAL CEILING SYSTEM WITH 2x2 ACOUSTICAL CEILING TILES AND INTERMEDIATE GRID.
- RCP2: REINSTALL CEILING SYSTEM AND LIGHTING.
- RCP3: PAINT EXPOSED STRUCTURE, ELECTRICAL CONDUITS, MECHANICAL DUCTS, ETC., MATCH EXISTING WALL SURFACE.



NORTH

1

BASEMENT FLOOR REFLECTED CEILING PLAN - AREA A

1/8" = 1'-0"

21011.40 1/28/2022 5:50:41 PM ESSER HVAC Improvements - East High School

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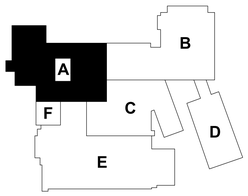

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Approved	**Approver**

SHEET TITLE

BASEMENT FLOOR REFLECTED CEILING PLAN - AREA A

SCALE

Scale: **As indicated**

SHEET NUMBER

A2.00A

GENERAL NOTES

1. FOR THE REMOVAL OF MECHANICAL DUCTWORK AND PIPING, REFER TO MECHANICAL DRAWINGS.

LEGEND

- DEMOLITION WORK
- NEW WORK

REFLECTED CEILING PLAN KEY NOTES

- RCP1: INSTALL NEW ACOUSTICAL CEILING SYSTEM WITH 2x2 ACOUSTICAL CEILING TILES AND INTERMEDIATE GRID.
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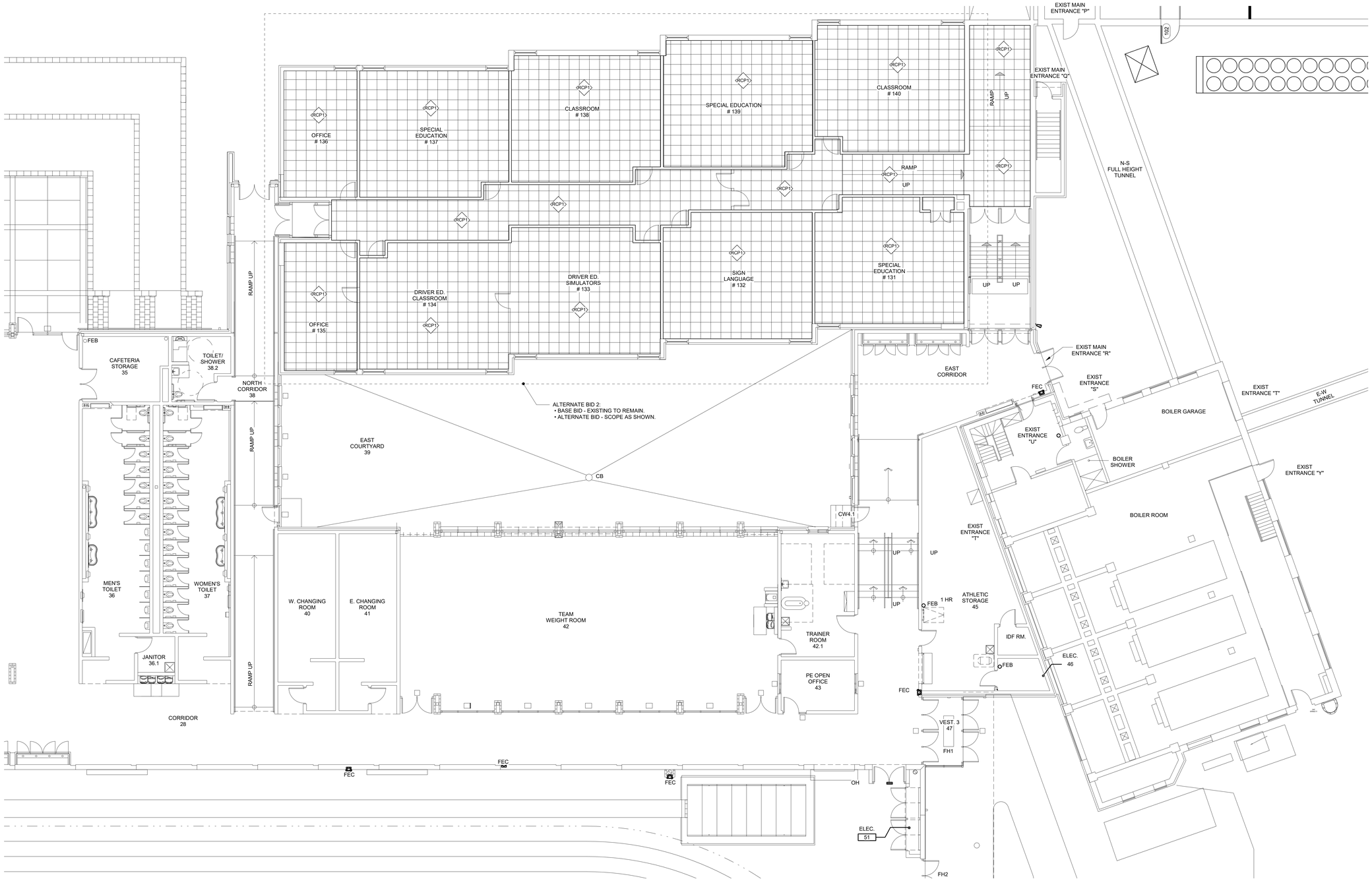
- RCP3: PAINT EXPOSED STRUCTURE, ELECTRICAL CONDUITS, MECHANICAL DUCTS, ETC., MATCH EXISTING WALL SURFACE.



BASEMENT FLOOR REFLECTED CEILING PLAN - AREA C

1/8" = 1'-0"

NORTH

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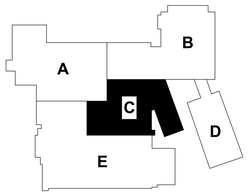

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SHEET TITLE

BASEMENT FLOOR REFLECTED CEILING PLAN - AREA C

SCALE

Scale: **As indicated**

SHEET NUMBER

A2.00C

21011.40 1/28/2022 5:50:45 PM ESSER HVAC Improvements - East High School

GENERAL NOTES

1. FOR THE REMOVAL OF MECHANICAL DUCTWORK AND PIPING, REFER TO MECHANICAL DRAWINGS.

LEGEND

- DEMOLITION WORK
- NEW WORK

REFLECTED CEILING PLAN KEY NOTES

- RCP1: INSTALL NEW ACOUSTICAL CEILING SYSTEM WITH 2x2 ACOUSTICAL CEILING TILES AND INTERMEDIATE GRID.
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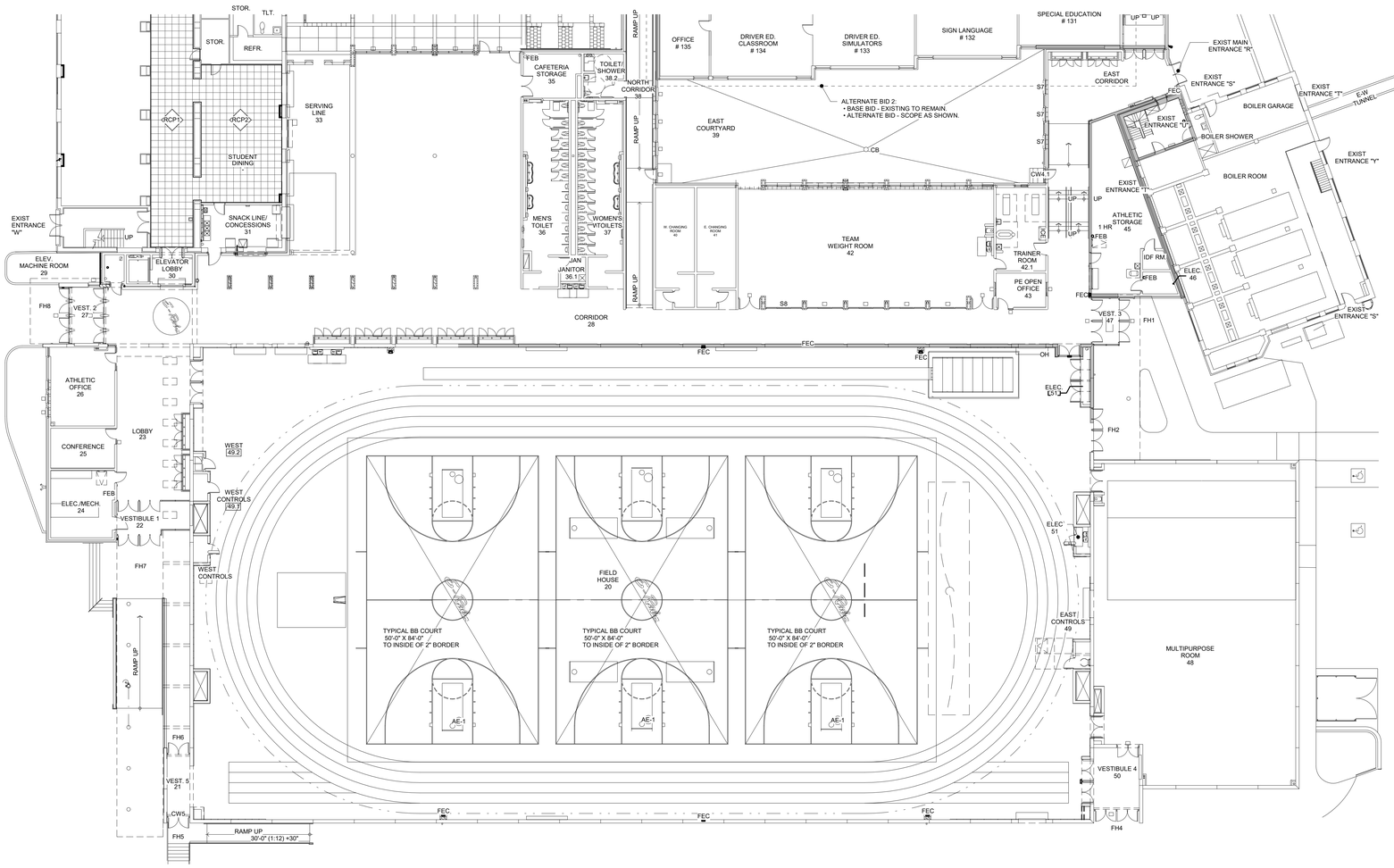

1 BASEMENT FLOOR REFLECTED CEILING PLAN - AREA E

1/16" = 1'-0"

NORTH

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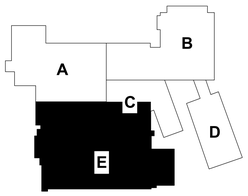
KEY PLAN



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SHEET TITLE

BASEMENT FLOOR REFLECTED CEILING PLAN - AREA E

SCALE

Scale: As indicated

SHEET NUMBER

A2.00E

GENERAL NOTES

1. FOR THE REMOVAL OF MECHANICAL DUCTWORK AND PIPING, REFER TO MECHANICAL DRAWINGS.

LEGEND

- DEMOLITION WORK
- NEW WORK

REFLECTED CEILING PLAN KEY NOTES

- RCP1 — INSTALL NEW ACOUSTICAL CEILING SYSTEM WITH 2x2 ACOUSTICAL CEILING TILES AND INTERMEDIATE GRID.
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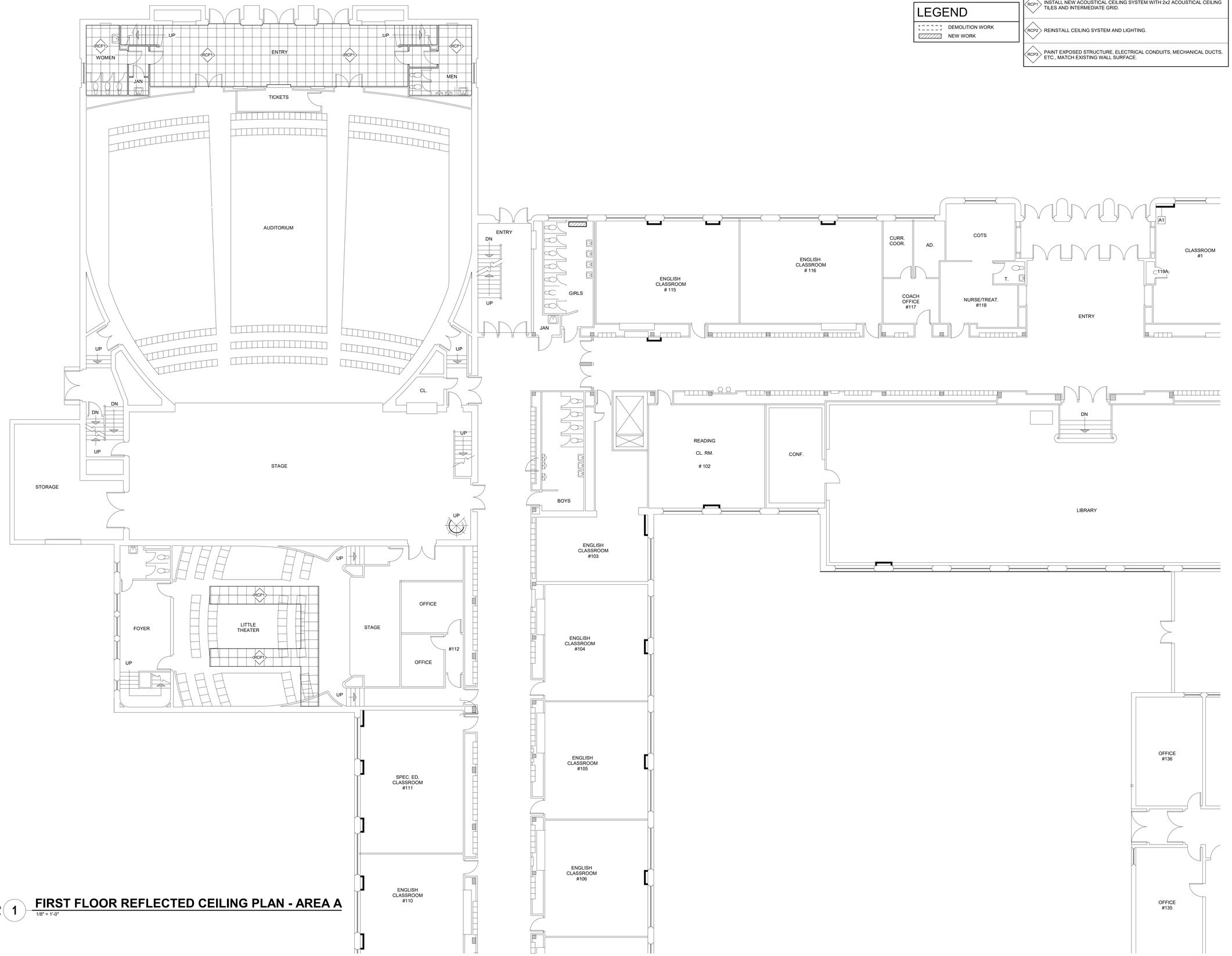

1 **FIRST FLOOR REFLECTED CEILING PLAN - AREA A**

1/8" = 1'-0"

NORTH

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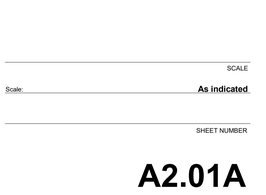
KEY PLAN



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SHEET TITLE

FIRST FLOOR REFLECTED CEILING PLAN - AREA A

SCALE

Scale: **As indicated**

SHEET NUMBER

A2.01A

21011.40 1/28/2022 5:50:52 PM ESSER HVAC Improvements - East High School

GENERAL NOTES

1. FOR THE REMOVAL OF MECHANICAL DUCTWORK AND PIPING, REFER TO MECHANICAL DRAWINGS.

LEGEND

- DEMOLITION WORK
- NEW WORK

REFLECTED CEILING PLAN KEY NOTES

- RCP1: INSTALL NEW ACOUSTICAL CEILING SYSTEM WITH 2x2 ACOUSTICAL CEILING TILES AND INTERMEDIATE GRID.
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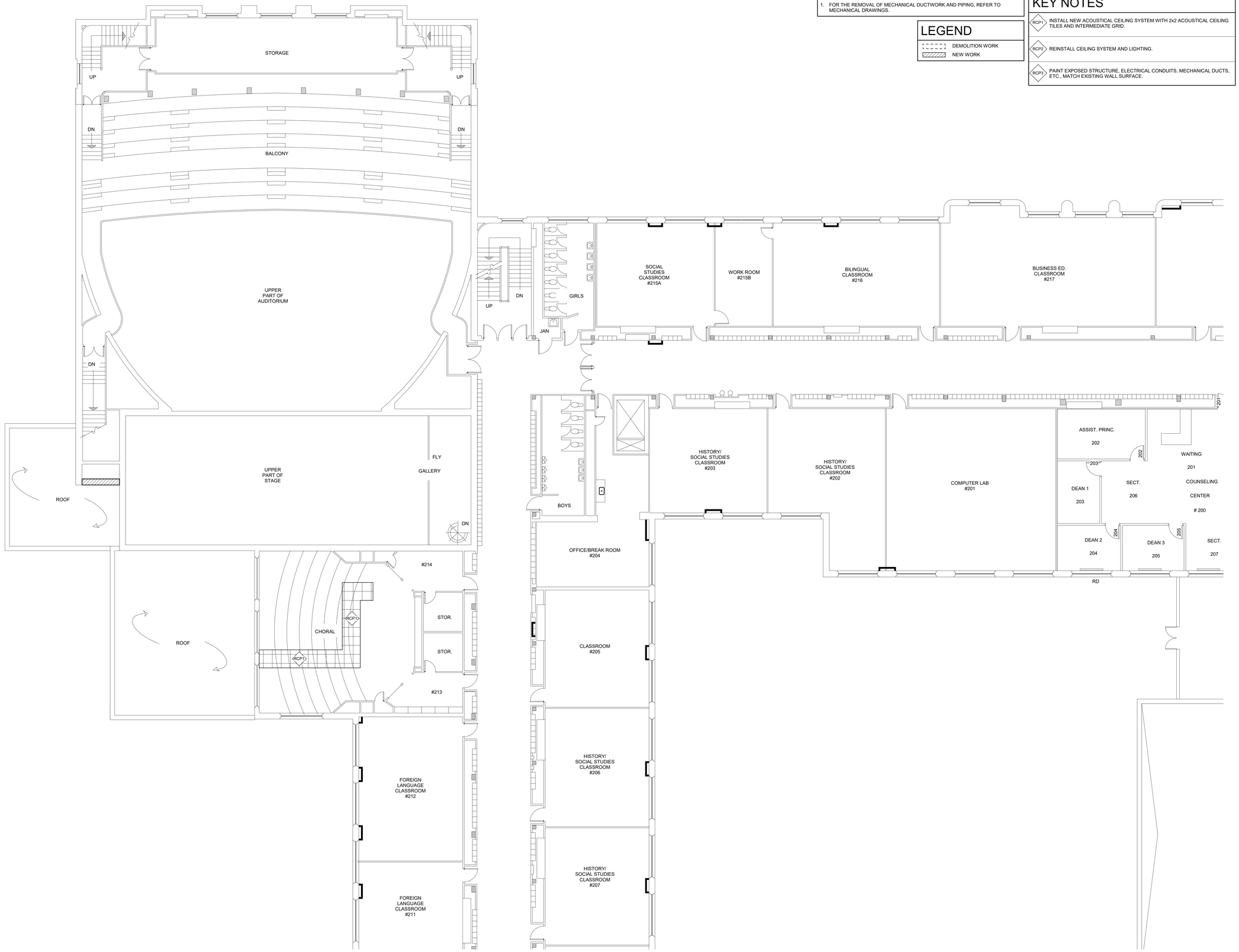

1 **SECOND FLOOR REFLECTED CEILING PLAN - AREA A**

1/8" = 1'-0"

NORTH

21011.40 1/28/2022 5:51:00 PM ESSER HVAC Improvements - East High School

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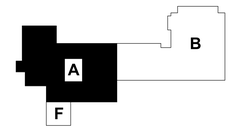
KEY PLAN



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Approved	**Approver**

SHEET TITLE

SECOND FLOOR REFLECTED CEILING PLAN - AREA A

SCALE

Scale: **As indicated**

SHEET NUMBER

A2.02A

GENERAL NOTES

1. FOR THE REMOVAL OF MECHANICAL DUCTWORK AND PIPING, REFER TO MECHANICAL DRAWINGS.

LEGEND

- DEMOLITION WORK
- NEW WORK

REFLECTED CEILING PLAN KEY NOTES

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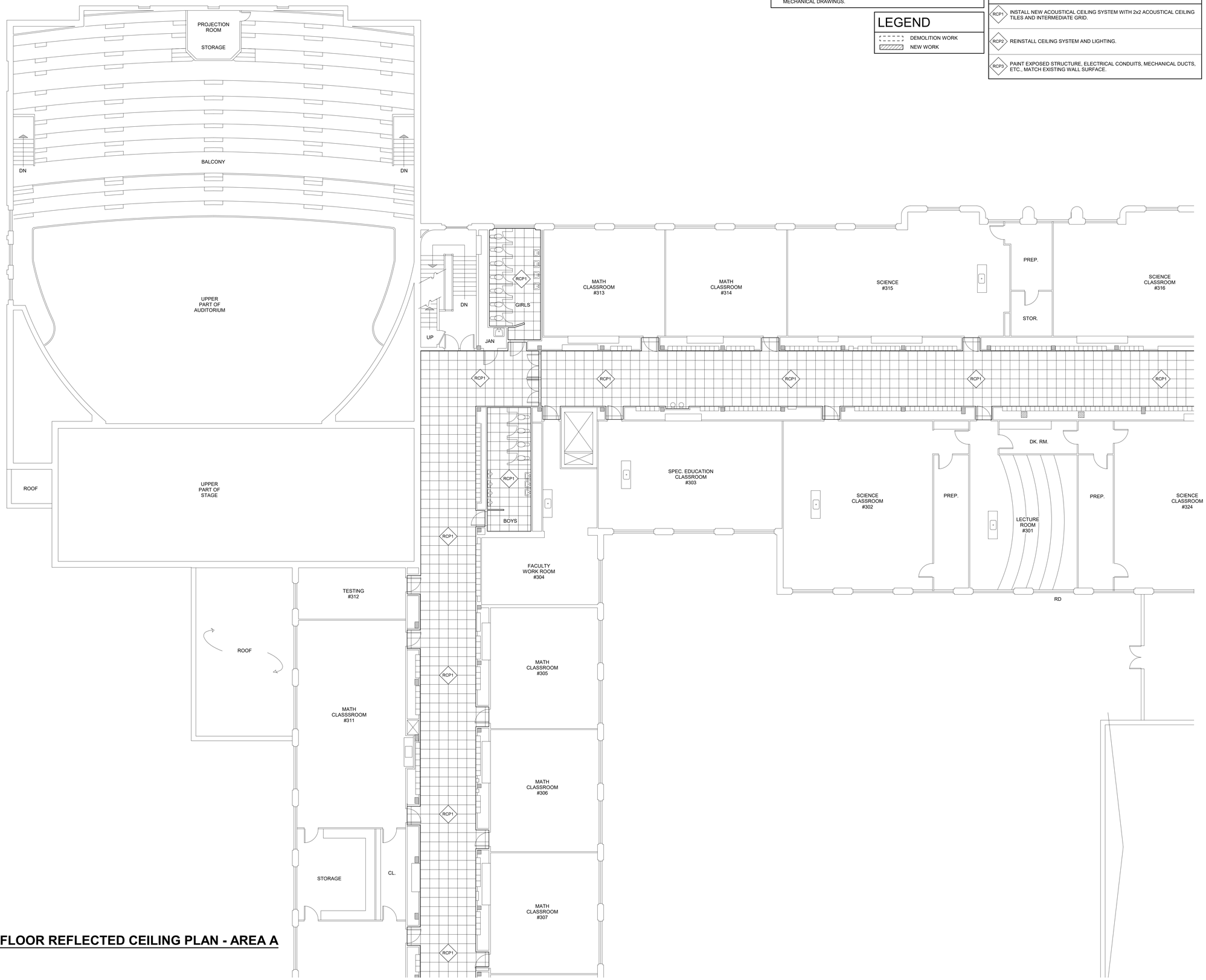

1 NORTH

THIRD FLOOR REFLECTED CEILING PLAN - AREA A

1/8" = 1'-0"

21011.40 1/28/2022 5:51:06 PM ESSER HVAC Improvements - East High School

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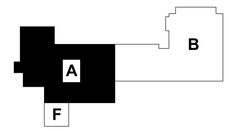

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SHEET TITLE

THIRD FLOOR REFLECTED CEILING PLAN - AREA A

SCALE

Scale: **As indicated**

SHEET NUMBER

A2.03A

REFLECTED CEILING PLAN KEY NOTES

RCP1 — INSTALL NEW ACOUSTICAL CEILING SYSTEM WITH 2x2 ACOUSTICAL CEILING TILES AND INTERMEDIATE GRID.

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RCP3 — PAINT EXPOSED STRUCTURE, ELECTRICAL CONDUITS, MECHANICAL DUCTS, ETC., MATCH EXISTING WALL SURFACE.

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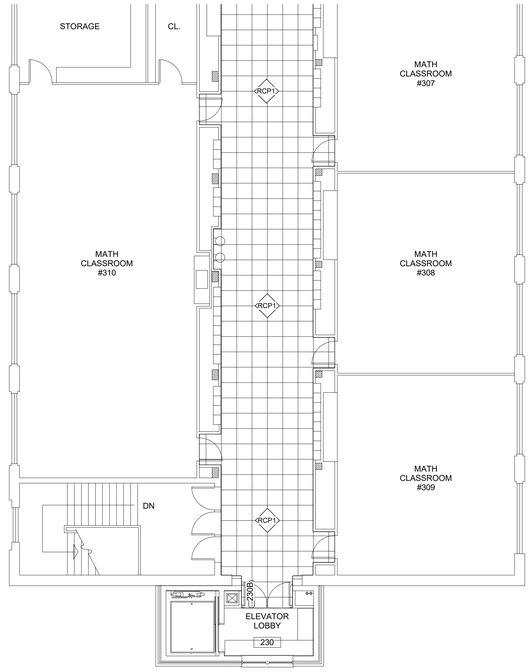
LEGEND

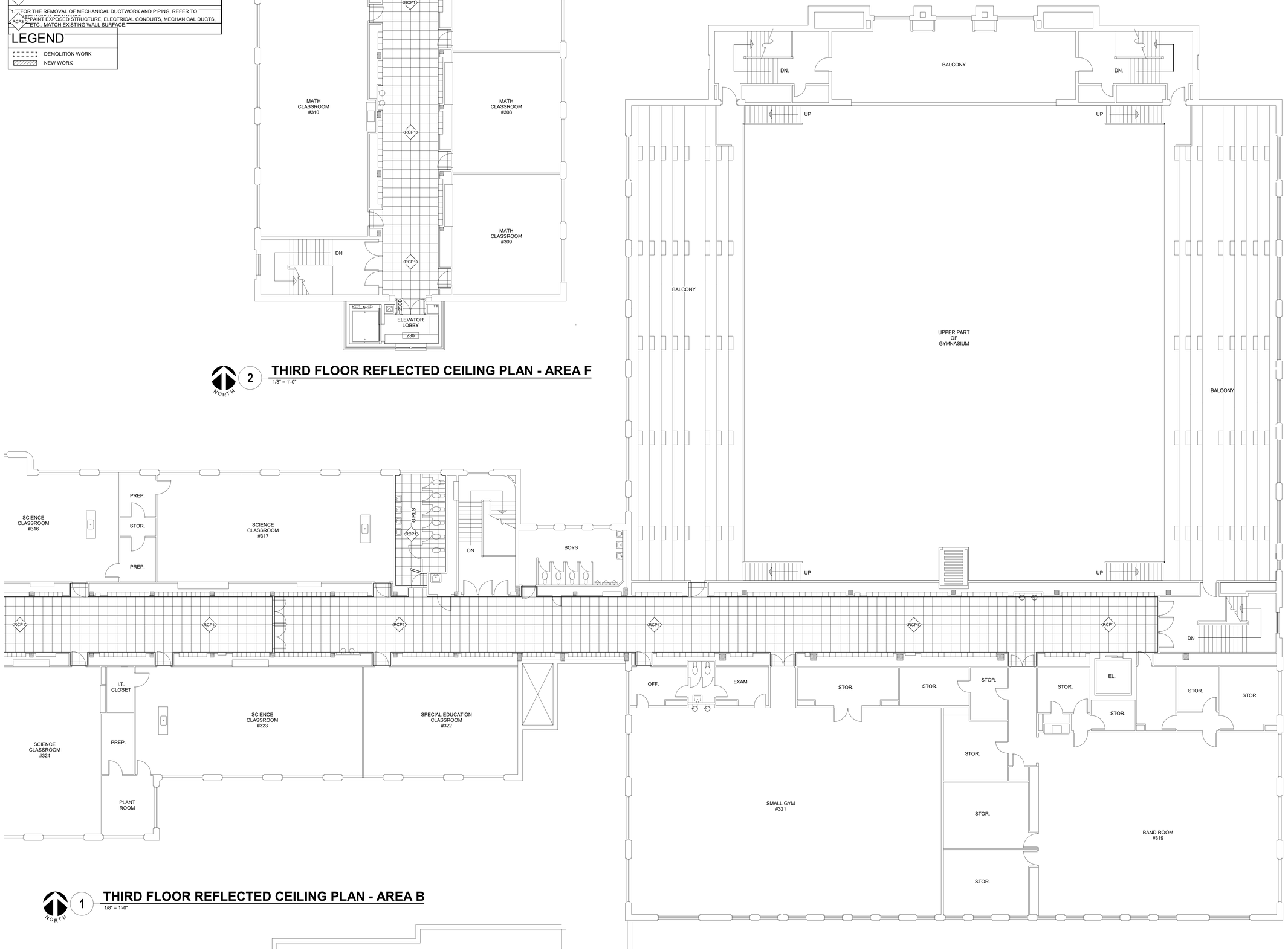
- DEMOLITION WORK
- NEW WORK



NORTH 2

THIRD FLOOR REFLECTED CEILING PLAN - AREA F

1/8" = 1'-0"



NORTH 1

THIRD FLOOR REFLECTED CEILING PLAN - AREA B

1/8" = 1'-0"

1/28/2022 5:51:09 PM ESSER HVAC Improvements - East High School 21011.40

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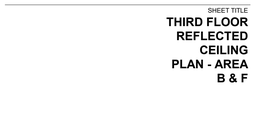

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Approved	**Approver**

SHEET TITLE

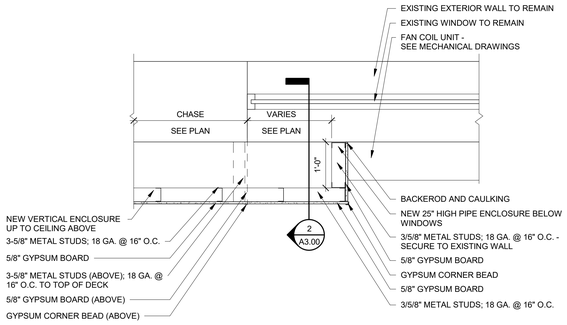
THIRD FLOOR REFLECTED CEILING PLAN - AREA B & F

SCALE

Scale: **As indicated**

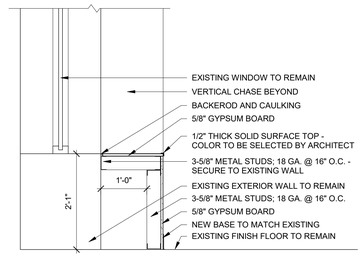
SHEET NUMBER

A2.03B



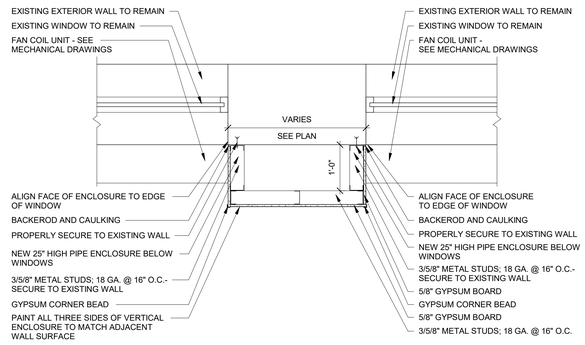
1 TYPICAL DETAIL AT VERTICAL ENCLOSURES

3/4" = 1'-0"



2 TYPICAL DETAIL AT ENCLOSURE BELOW WINDOW

3/4" = 1'-0"



3 TYPICAL VERTICAL ENCLOSURE AT WINDOWS

3/4" = 1'-0"

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KEY PLAN

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REFERENCE SCALE IN INCHES

0 1 2

REVISIONS

No.	Date	Revision / Issue

SHEET INFORMATION

Issue	**BID DOCUMENTS**
Date	**01-28-2022**
Job Number	**21011.40**
Drawn	**Author**
Checked	**Checker**
Approved	**Approver**

SHEET TITLE

DETAILS

SCALE

Scale: **3/4" = 1'-0"**

SHEET NUMBER

A3.00