Rockford Public Schools #205

2525 Ohio Pkwy, Rockford, IL 61108

ESSER HVAC Improvements - Flinn Middle School

ELECTRICAL / MECHANCIAL / PLUMBING Sheet List

Number	Name
C000	GENERAL COVERSHEET
E000	ELECTRICAL COVERSHEET
E001	SITE - ELECTRICAL
E100A	BASEMENT DEMOLITION - ELECTRICAL - AREA A
E100B	BASEMENT DEMOLITION - ELECTRICAL - AREA B & C
E100D	BASEMENT DEMOLITION - ELECTRICAL - AREA D
E100E	BASEMENT DEMOLITION - ELECTRICAL - AREA E & F
E101A	FIRST FLOOR DEMOLITION - ELECTRICAL - AREA A
E101B	FIRST FLOOR DEMOLITION - ELECTRICAL - AREA B & C
E101D	FIRST FLOOR DEMOLITION - ELECTRICAL - AREA D
E101E	FIRST FLOOR DEMOLITION - ELECTRICAL - AREA E & F
E102A	SECOND FLOOR DEMOLITION - ELECTRICAL - AREA A
E102B	SECOND FLOOR DEMOLITION - ELECTRICAL - AREA B & C
E102D	SECOND FLOOR DEMOLITION - ELECTRICAL - AREA D
E102E	SECOND FLOOR DEMOLITION - ELECTRICAL - AREA E & G
E103	ROOF DEMOLITION - ELECTRICAL
E201A	BASEMENT - ELECTRICAL - AREA A
E201B	BASEMENT - ELECTRICAL - AREA B & C
E201D	BASEMENT - ELECTRICAL - AREA D
E201E	BASEMENT - ELECTRICAL - AREA E & F
E202A	FIRST FLOOR - ELECTRICAL - AREA A
E202B	FIRST FLOOR - ELECTRICAL - AREA B & C
E202D	FIRST FLOOR - ELECTRICAL - AREA D
E202E	FIRST FLOOR - ELECTRICAL - AREA E & F
E203A	SECOND FLOOR - ELECTRICAL - AREA A
E203B	SECOND FLOOR - ELECTRICAL - AREA B & C
E203D	SECOND FLOOR - ELECTRICAL - AREA D
E203E	SECOND FLOOR - ELECTRICAL - AREA E & G
E204	ROOF - ELECTRICAL
E400	ELECTRICAL DETAILS
E500	ELECTRICAL RISER DIAGRAM
E501	ELECTRICAL RISER DIAGRAM
E502	ELECTRICAL RISER DIAGRAM
E600	ELECTRICAL SCHEDULES
E601	ELECTRICAL SCHEDULES
E602	ELECTRICAL SCHEDULES
E700	PANEL SCHEDULES
E701	PANEL SCHEDULES
E702	PANEL SCHEDULES
M000	MECHANICAL COVERSHEET
M100A	BASEMENT DEMOLITION - MECHANICAL - AREA A
M100B	BASEMENT DEMOLITION - MECHANICAL - AREA B & C
M100D	BASEMENT DEMOLITION - MECHANICAL - AREA D
M100E	BASEMENT DEMOLITION - MECHANICAL - AREA E & F
M101A	FIRST FLOOR DEMOLITION - MECHANICAL - AREA A
M101B	FIRST FLOOR DEMOLITION - MECHANICAL - AREA B & C
M101D	FIRST FLOOR DEMOLITION - MECHANICAL - AREA D
M101E	FIRST FLOOR DEMOLITION - MECHANICAL - AREA E & F
M102A	SECOND FLOOR DEMOLITION - MECHANICAL - AREA A
M102B	SECOND FLOOR DEMOLITION - MECHANICAL - AREA B & C
M102D	SECOND FLOOR DEMOLITION - MECHANICAL - AREA D
M102E	SECOND FLOOR DEMOLITION - MECHANICAL - AREA E & G
M103	ROOF - MECHANICAL DEMOLITION
M201A	BASEMENT FLOOR - MECHANICAL - AREA A
M201B	BASEMENT FLOOR - MECHANICAL - AREA B & C
M201D	BASEMENT FLOOR - MECHANICAL - AREA D
M201E	BASEMENT FLOOR - MECHANICAL - AREA E & F
M202A	FIRST FLOOR - MECHANICAL - AREA A
M202B	FIRST FLOOR - MECHANICAL - AREA B & C
M202D	FIRST FLOOR - MECHANICAL - AREA D
M202E	FIRST FLOOR - MECHANICAL - AREA E & F
M203A	SECOND FLOOR - MECHANICAL - AREA A
M203B	SECOND FLOOR - MECHANICAL - AREA B & C
M203D	SECOND FLOOR - MECHANICAL - AREA D
M203E	SECOND FLOOR - MECHANICAL - AREA E & G
M204	ROOF - MECHANICAL
M300	DOAS-4 ENLARGED PLAN & AHU DETAIL
M301	BOILER ROOM/ENLARGED MECHANICAL ROOM PLAN
M302	GYM ENLARGED ROOF PLAN
M303	POOL ENLARGED ROOF/AHU PLAN
M304	RTU-2/RTU-3 EQUIPMENT DETAILS
M305	RTU-3/ERV-1 AND DOAS-8FL ENLARGED ROOF PLANS
M306	ENLARGED TUNNEL SECTIONS/PLANS
M400	MECHANICAL DETAILS
M401	MECHANICAL DETAILS
M402	MECHANICAL DETAILS
M500	MECHANICAL DIAGRAM
M501	MECHANICAL DIAGRAM
M600	MECHANICAL SCHEDULES
M601	MECHANICAL SCHEDULES
M602	MECHANICAL SCHEDULES
M603	MECHANICAL SCHEDULES
MC000	TEMPERATURE CONTROL COVERSHEET
MC201A	BASEMENT - CONTROLS - AREA A
MC201B	BASEMENT - CONTROLS - AREA B & C
MC202A	FIRST FLOOR - CONTROLS - AREA A
MC202B	FIRST FLOOR - CONTROLS - AREA B & C
MC202D	FIRST FLOOR - CONTROLS - AREA D
MC202E	FIRST FLOOR - CONTROLS - AREA E & F
MC203A	SECOND FLOOR - CONTROLS - AREA A
MC203B	SECOND FLOOR - CONTROLS - AREA B & C
MC203D	SECOND FLOOR - CONTROLS - AREA D
MC400	CONTROL DETAILS
MC500	DOAS/RTU CONTROL DIAGRAM
MC501	DOAS/RTU CONTROL DIAGRAM
MC502	PACKAGED DOAS CONTROL DIAGRAM
MC503	MAU CONTROL DIAGRAM
MC504	HEAT EXCHANGER CONTROL DIAGRAM
MC505	TERMINAL EQUIPMENT / MAU CONTROL DIAGRAMS
MC506	KITCHEN EXHAUST MAU-1 CONTROL
P000	PLUMBING COVERSHEET
P201A	BASEMENT FLOOR - PLUMBING - AREA A
P201B	BASEMENT FLOOR - PLUMBING - AREA B & C
P202A	FIRST FLOOR - PLUMBING - AREA A
P202B	FIRST FLOOR - PLUMBING - AREA B & C
P202D	FIRST FLOOR - PLUMBING - AREA D
P202E	FIRST FLOOR - PLUMBING - AREA E & F
P203A	SECOND FLOOR - PLUMBING - AREA A
P203B	SECOND FLOOR - PLUMBING - AREA B & C
P203D	SECOND FLOOR - PLUMBING - AREA D
P203E	SECOND FLOOR - PLUMBING - AREA E & G
P204	ROOF - PLUMBING
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CIVIL / STRUCTURAL / ARCHITECTURAL Sheet List

Number	Name
C001	CIVIL SITE NOTES
C002	CIVIL SITE PLAN
C003	CIVIL SITE DETAILS
S000	GENERAL NOTES
S100	OVERALL ROOF PLAN
S101	SUPPORT FRAMING PLANS
S102	SUPPORT FRAMING PLANS
S103	ADDITION PLANS AND DETAILS
S104	AREA WAY PLAN AND DETAILS
S300	DETAILS
G0.01	GENERAL INFORMATION, DOOR SCHEDULE, DOOR TYPE, FRAME TYPE, HEAD, SILL, AND JAMB DETAIL
G1.00	BASEMENT CODE PLAN
G1.01	FIRST FLOOR CODE PLAN
G1.02	SECOND FLOOR CODE PLAN - AREA A
G2.00	BASEMENT AND FIRST FLOOR FINISH SCHEDULE
G2.01	FIRST FLOOR FINISH SCHEDULE
G2.02	FIRST FLOOR FINISH SCHEDULE
G2.03	FIRST AND SECOND FLOOR FINISH SCHEDULE
G2.04	SECOND FLOOR FINISH SCHEDULE
D1.00A	BASEMENT DEMOLITION PLAN – AREA A
D1.00B	BASEMENT DEMOLITION PLAN – AREA B
D1.00D	BASEMENT DEMOLITION PLAN – AREA D
D1.00E	BASEMENT DEMOLITION PLAN – AREA E
D1.01A	FIRST FLOOR DEMOLITION PLAN – AREA A
D1.01B	FIRST FLOOR DEMOLITION PLAN – AREA B
D1.01D	FIRST FLOOR DEMOLITION PLAN – AREA D
D1.01E	FIRST FLOOR DEMOLITION PLAN – AREA E
D1.02A	SECOND FLOOR DEMOLITION PLAN – AREA A
D1.02B	SECOND FLOOR DEMOLITION PLAN – AREA B
D1.02D	SECOND FLOOR DEMOLITION PLAN – AREA D
D1.03B	THIRD FLOOR DEMOLITION PLAN – AREA B
A1.00A	BASEMENT FLOOR PLAN - AREA A
A1.00B	BASEMENT FLOOR PLAN - AREA B
A1.00D	BASEMENT FLOOR PLAN - AREA D
A1.00E	BASEMENT FLOOR PLAN - AREAS E
A1.01A	FIRST FLOOR PLAN - AREA A
A1.01B	FIRST FLOOR PLAN - AREA B
A1.01D	FIRST FLOOR PLAN - AREA D
A1.01E	FIRST FLOOR PLAN - AREA E
A1.02A	SECOND FLOOR PLAN - AREA A
A1.02B	SECOND FLOOR PLAN - AREA B
A1.02D	SECOND FLOOR PLAN - AREA D
A1.02E	SECOND FLOOR PLAN - AREA E
A1.03B	THIRD FLOOR PLAN – AREA B – FAN ROOM
A2.00A	BASEMENT REFLECTED CEILING PLAN - AREA A
A2.00C	BASEMENT REFLECTED CEILING PLAN - AREA C
A2.01A	FIRST FLOOR REFLECTED CEILING PLAN - AREA A
A2.01B	FIRST FLOOR REFLECTED CEILING PLAN - AREA B
A2.01D	FIRST FLOOR REFLECTED CEILING PLAN - AREA D
A2.01E	FIRST FLOOR REFLECTED CEILING PLAN - AREA E
A2.02A	SECOND FLOOR REFLECTED CEILING PLAN - AREA A
A2.02B	SECOND FLOOR REFLECTED CEILING PLAN - AREA B
A2.02D	SECOND FLOOR REFLECTED CEILING PLAN - AREA D
A2.02E	SECOND FLOOR REFLECTED CEILING PLAN – AREA E
A2.03B	THIRD FLOOR REFLECTED CEILING PLAN – AREA B
A3.00A	ROOF PLAN - AREA A
A3.00B	ROOF PLAN - AREA B
A3.00D	ROOF PLAN - AREA D
A3.00 E	ROOF PLAN - AREA E
A3.01	DETAILS
A3.02	ROOF DETAILS
A4.00	DETAILS
A4.01	STORAGE ADDITION PLANS, ELEVATIONS, SECTIONS, AND DETAILS
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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, civil, and electrical revisions to support the HVAC work.

Phasing Requirements:
Project shall be phased such that heating is available at all times during school operation. Initial recomendation is for contractor to put together a phasing plan based on roughing in new heating and chilled water piping during summer of 2022. Demolition of existing steam heating system, installation of new fan coil units, and transition to new hot water heating system would occur in the summer of 2023.

PROJECT INFORMATION

IFB# 22-23

RPS #205 PROJECT NUMBER: 2246

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ROCKFORD PUBLIC SCHOOLS

ESSER HVAC Improvements - Flinn Middle School

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Rockford Public Schools #205

CONSULTANT

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REVISIONS

No.	Date	Revision / Issue

SHEET INFORMATION

Issue	**BID DOCUMENTS**
Date	**JANUARY 28, 2022**
Job Number	**21002885.03**

SHEET TITLE
GENERAL COVERSHEET

SHEET NUMBER
C000

21002885.03 1/28/2022 7:41:52 PM ESSER HVAC Improvements - Flinn Middle School

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

INDICATES DIRECTION OF TRUE NORTH
PLAN OR DETAIL NUMBER
PLAN OR DETAIL NAME
VIEW NAME
1/8" = 1'-0"
PLAN OR DETAIL SCALE
NORTH

INDICATES SIMILAR DETAIL REFERENCED IN MULTIPLE LOCATIONS
DETAIL REFERRED TO BY SECTION CUT
SHEET DETAIL IS LOCATED ON
SIM
M101
T101

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 2 HOUR FIRE BARRIER(S), UNLESS NOTED OTHERWISE ON THE PLANS. RATINGS WERE ACQUIRED FROM THE ARCHITECTURAL PLANS DATED 12/28/21.

1/2 HOUR FIRE WALL	
3/4 HOUR FIRE WALL	
1 HOUR FIRE WALL	

CONTRACTOR ABBREVIATION KEY

ABBR:	DESCRIPTION:
A.C.	ASBESTOS ABATEMENT CONTRACTOR
C.C.	CIVIL CONTRACTOR
E.C.	ELECTRICAL CONTRACTOR
G.C.	GENERAL CONTRACTOR
M.C.	MECHANICAL CONTRACTOR
P.C.	PLUMBING 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
UON	UNLESS OTHERWISE NOTED

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
DPM	DPM	26 09 13/ 26 24 13	DIGITAL POWER METER
	PANEL '###'	26 24 16	PANELBOARD - RECESS MOUNT
	PANEL '###'	26 24 16	PANELBOARD - SURFACE MOUNT
	MX-#/MS-# /CB-#/CS-#	26 24 19	MANUAL SWITCH / STARTER / COMBINATION STARTER/ CIRCUIT BREAKER. REFER TO DISC/STA SCHEDULE
	TR-#/DTR-#	26 22 00	TRANSFORMER. REFER TO TRANSFORMER SCHEDULE
h	DS-#/FDS-#/DSS-#	26 28 16	DISCONNECT. REFER TO DISC/STA SCHEDULE
h	MD-SD-#	26 28 16	MOBILE DIAGNOSTICS SERVICE DISCONNECT. REFER TO DISC/STA SCHEDULE

ELECTRICAL SYMBOL LIST

SYMBOL:	TAG:	SPEC SECTION:	DESCRIPTION:
	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-TAMP	26 27 26	DUPLEX RECEPTACLE, TAMPER RESISTANT, 125V
	REC-TAMP-GFI	26 27 26	GFI DUPLEX RECEPTACLE, TAMPER RESISTANT, 125V
	REC-TAMP-QUAD	26 27 26	QUAD RECEPTACLE, TAMPER RESISTANT, 125V
	REC-QUAD	26 27 26	QUAD RECEPTACLE, 125V

ELECTRICAL SYMBOL LIST

SYMBOL:	TAG:	SPEC SECTION:	DESCRIPTION:
$	SW-1P	26 09 33	SWITCH - SINGLE POLE
$_T$	SW-1P-ADJ	26 09 33	SWITCH - LOCAL TIMER - USER ADJUSTABLE
$_3$	SW-3W	26 09 33	SWITCH - THREE WAY
$_4$	SW-4W	26 09 33	SWITCH - FOUR WAY
$_D$	SW-D-LED	26 09 33	DIMMER - LED
$_{D3}$	SW-D3-LED	26 09 33	DIMMER - LED - 3-WAY
$_O$	SW-OD	26 09 33	DIMMER - WALL DIMMER OCCUPANCY SENSOR
LS $_D$	SW-LS-D	26 09 33	DAYLIGHT LEVEL SENSOR - 1 ZONE DIMMING
LS $_{3D}$	SW-LS-D-3Z	26 09 33	DAYLIGHT LEVEL SENSOR - 3 ZONE DIMMING
PC	SW-LS-PC	26 09 33	PHOTOCELL
OC $_D$	SW-OC-D	26 09 33	OCCUPANCY SENSOR - DUAL TECHNOLOGY
OC $_{HA}$	SW-OC-P-HA	26 09 33	OCCUPANCY SENSOR - HIGH BAY AISLE COVERAGE
OC $_{HB}$	SW-OC-P-HB	26 09 33	OCCUPANCY SENSOR - HIGH BAY
OC $_O$	SW-OC-P-O	26 09 33	SWITCH - OCCUPANCY SENSOR WALL SWITCH
OC $_U$	SW-OC-U	26 09 33	OCCUPANCY SENSOR - ULTRASONIC 360 DEGREE COVERAGE
OC $_A$	SW-OC-U-A	26 09 33	OCCUPANCY SENSOR - ULTRASONIC TWO SIDED CORRIDOR COVERAGE
SW	SW	26 09 33	WALL CONTROL STATION
ALCR	ALCR20	26 09 33	AUTOMATIC LOAD CONTROL RELAY
BCELTS	BCELTS	26 09 33	BRANCH CIRCUIT EMERGENCY LIGHTING TRANSFER SWITCH 20A

ELECTRICAL SYMBOL LIST

SYMBOL:	TAG:	SPEC SECTION:	DESCRIPTION:
	REFER TO LUMINAIRE SCHEDULE		LINEAR LUMINAIRES
			TROFFER
			WALL SCONCE LUMINAIRE
			DOWNLIGHT LUMINAIRE
			AIMABLE OR WALL WASH LUMINAIRE
			INDUSTRIAL LUMINAIRE
			WALL BRACKET LUMINAIRE
			POLE MOUNTED LUMINAIRE
			SINGLE FACE EXIT SIGN
			DOUBLE FACE EXIT SIGN
			WALL/CEILING EMERGENCY EXIT SIGN
			EMERGENCY UNIT

LUMINAIRE SYMBOL KEY

SYMBOL:	DESCRIPTION:
	NORMAL BRANCH LUMINAIRE
	EMERGENCY BATTERY LUMINAIRE UNSWITCHED FOR NIGHT LIGHT, UNLESS NOTED 'SE'

ELECTRICAL SYMBOL LIST

SYMBOL:	TAG:	SPEC SECTION:	DESCRIPTION:
	FAP-#	28 31 00	FIRE ALARM CONTROL PANEL
SD	FA-120	28 31 00	FIRE ALARM SMOKE DETECTOR - CEILING MOUNTED
SD	FA-122	28 31 00	FIRE ALARM DUCT SMOKE DETECTOR
F	FA-130	28 31 00	FIRE ALARM MANUAL PULL STATION
FT	FA-131	28 31 00	FIRE ALARM MANUAL PULL STATION W/ COVER
H	FA-140	28 31 00	FIRE ALARM HEAT DETECTOR
HF	FA-141	28 31 00	HEAT DETECTOR - 200 DEGREE
CO	FA-150	28 31 00	FIRE ALARM CARBON MONOXIDE/HEAT/SMOKE DETECTOR
MM	FA-160	28 31 00	FIRE ALARM ADDRESSABLE MONITOR MODULE
AR	FA-161	28 31 00	FIRE ALARM RELAY
V1 V2 V3 V4 VS	FA-200	28 31 00	FIRE ALARM VISUAL NOTIFICATION DEVICE - WALL MOUNTED
V1 V2 V3 V4 VS	FA-201	28 31 00	FIRE ALARM VISUAL NOTIFICATION DEVICE - CEILING MOUNTED
V W	FA-203	28 31 00	FIRE ALARM VISUAL NOTIFICATION DEVICE - WALL MOUNTED - WEATHERPROOF
A	FA-210	28 31 00	FIRE ALARM AUDIO NOTIFICATION DEVICE - WALL MOUNTED
A1 A2 A3 A4 AS	FA-211	28 31 00	FIRE ALARM AUDIO/VISUAL NOTIFICATION DEVICE - WALL MOUNTED
A W	FA-212	28 31 00	FIRE ALARM AUDIO/VISUAL NOTIFICATION DEVICE - WALL MOUNTED - WEATHERPROOF
A	FA-230	28 31 00	FIRE ALARM AUDIO NOTIFICATION DEVICE - CEILING MOUNTED
A1 A2 A3 A4 AS	FA-231	28 31 00	FIRE ALARM AUDIO/VISUAL NOTIFICATION DEVICE - CEILING MOUNTED
RTS/I	FA-242	28 31 00	FIRE ALARM REMOTE INDICATOR AND TEST SWITCH
RI	FA-241	28 31 00	FIRE ALARM REMOTE INDICATOR
SD	FA-250	28 31 00	FIRE ALARM SMOKE DAMPER
ARD	FA-251	28 31 00	SMOKE OR FIRE DAMPER CONTROLLER
IM	FA-280	28 31 00	ISOLATION MODULE

ELECTRICAL EQUIPMENT TAGS

TAG:	DESCRIPTION:	RELATED SPECIFICATION
DP-#	DISTRIBUTION PANEL	26 24 16
DTR-#	TRANSFORMER - DISTRIBUTION TYPE REFER TO TRANSFORMER SCHEDULE	26 12 19
MX-#	MANUAL SWITCH, REFER TO DISCONNECT AND STARTER SCHEDULE	26 24 19
NEP-#	FIRE ALARM - EXTENDER PANEL	28 31 00
SB-#	SWITCHBOARD	26 24 13
SPD-#	SURGE PROTECTION DEVICE	26 43 00
US-#	UNIT SUBSTATION	
VFD-#	VARIABLE FREQUENCY DRIVE - REFER TO VFD SCHEDULE	26 29 23

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	IMC	EMT	PVC	PVC CONCRETE ENCASED	HDPE	ASR
FEEDERS: SWITCHBOARDS, DISTRIBUTION PANELS, PANELBOARDS, MOTOR CONTROL CENTERS, ETC.		X	X				
BRANCH CIRCUITS: LIGHTING, RECEPTACLES, CONTROLS, ETC.		X	X				
MECHANICAL EQUIPMENT FEEDERS: PUMPS, CHILLERS, AIR HANDLING UNITS, ETC.		X	X				
FLOOR MOUNTED EQUIPMENT FEEDERS: PUMPS, ETC. (INCLUDE NO MORE THAN 6 FEET OF LFMC TO PUMP)		X	X				
CONTROLS (LIGHTING, POWER, BUILDING AUTOMATION, ETC.)		X	X				
FINISHED SPACES / CONCEALED			X				
WET AND DAMP LOCATIONS: (CONDUIT, BOXES, FITTINGS, INSTALLED AND EQUIPPED TO PREVENT WATER ENTRY)	X						
INTERIOR LOCATIONS: CONCEALED			X				
INTERIOR LOCATIONS: EXPOSED		X	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			X			
WITHIN 5' FROM THE PERIMETER OF THE BUILDING WHEN PASSING THROUGH THE PERIMETER OF THE BUILDING FOUNDATION:	X				X		
UNDERGROUND SITE CONDUITS:							
WITHIN 5' FROM THE PERIMETER OF A BUILDING FOUNDATION	X				X		
5' OR GREATER FROM THE PERIMETER OF A BUILDING FOUNDATION	X			X			
UNDER ROADS, DRIVES, AND VEHICLE TRAVELED WAYS. WHEN HDPE DIRECTIONAL BORING IS ALLOWED: PROVIDE PRESSURIZED GROUT				X		X	
DUCTBANKS (REFER TO DUCTBANK DETAILS WHEN APPLICABLE)							
REINFORCING SHALL CONSIST OF ONE-HALF INCH DEFORMED BARS SPACED 12 INCHES ON CENTER, PARALLELING THE DUCTS ON BOTTOM, WITH ONE-HALF INCH DEFORMED TIE BARS SPACED TWELVE INCHES ON CENTERS.					X		
BARS SHALL OVERLAP 40 DIAMETERS AND SHALL EXTEND 5' BEYOND ROADS, DRIVES, TRAVELED WAYS, ETC.					X		
PROVIDE MINIMUM 3" CONCRETE COVER ON ALL SIDES OF REINFORCING.					X		
ENTIRE DUCTBANK SHALL BE INSTALLED ON PRECAST CONCRETE PAVERS ON 3' CENTERS.					X		
DEFINITIONS:							
CONCRETE ENCASEMENT: CONDUIT WITH A MINIMUM OF 3" THICKNESS BETWEEN THE SURFACE OF THE CONCRETE AND THE NEAREST CONDUIT. CONCRETE TO BE DOWELED INTO THE FOUNDATION.							

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 CUT AND PATCH ROOFS, WALLS, AND FLOORS ASSOCIATED WITH HIS/HER 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 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.

ELECTRICAL PHASING NOTES:

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

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 LIGHTING, POWER, SYSTEMS, ETC. AS NEEDED TO MAINTAIN SERVICE TO ALL AREAS DURING ALL PHASES OF PROJECT.
4. INSTALL TEMPORARY LIGHTING, CIRCUITS, ETC. AS NECESSARY TO KEEP ALL OCCUPIED SPACES OPERATIONAL THROUGHOUT ALL PHASES OF THE PROJECT
5. PHASE DEMOLITION WORK TO MINIMIZE DOWNTIME.

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. **{LA###}** INDICATES THE LIGHTING SEQUENCE OF OPERATION FOR THE SPACE. REFER TO THE LIGHTING SEQUENCE OF OPERATION MATRIX ON SHEET **####**.
3. "NL" INDICATES LUMINAIRE IS UNSWITCHED FOR NIGHT LIGHT.
4. "SE" INDICATES LUMINAIRE IS SWITCHED/CONTROLLED DURING NORMAL OPERATION AND OPERATES FROM EMERGENCY BATTERY (EXTEND UNSWITCHED CIRCUIT LEG TO BATTERY) UPON LOSS OF POWER.
5. SHADED LUMINAIRE OR DEVICE INDICATES LUMINAIRE OR DEVICE IS CONNECTED TO AN EMERGENCY BATTERY.
6. REFER TO SHEET E602 FOR LUMINAIRE SCHEDULE.
7. VACANCY/OCCUPANCY SENSOR LAYOUT: SENSORS ARE SHOWN ON THE PLANS FOR DESIGN INTENT AND MAY NOT REFRESENT 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
R — MOUNT IN SURFACE RACEWAY

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 AND TECHNOLOGY OUTLETS 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. MOUNT ALL FIRE ALARM PULL STATIONS AT +42" FROM FLOOR (CENTERLINE DIMENSION) EXCEPT WHERE OTHERWISE NOTED.
7. INSTALL ALL WALL MOUNTED FIRE ALARM NOTIFICATION DEVICES AT 90" ABOVE FINISHED FLOOR OR 6" BELOW THE CEILING, WHICHEVER IS LOWER, EXCEPT WHERE OTHERWISE NOTED. HEIGHT SHALL BE MEASURED TO THE TOP OF THE DEVICE.
8. 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.
9. CONTRACTOR SHALL VERIFY ALL FURNITURE, MODULAR FURNITURE, AND EQUIPMENT LOCATIONS WITH ARCHITECTURAL PLANS, ELEVATIONS, AND REVIEWED SHOP DRAWINGS. PRIOR TO MAKING THE ACTUAL ELECTRICAL INSTALLATION, THIS CONTRACTOR SHALL ADJUST RECEPTACLES, OUTLETS, OR CONNECTION LOCATIONS TO ACCOMMODATE FURNITURE AND/OR EQUIPMENT.
10. ELECTRICAL EQUIPMENT SHALL BE MOUNTED TO AVOID IMPEDANCE OF, OPERATION OF, AND/OR ACCESS TO ELECTRICAL AND MECHANICAL EQUIPMENT. ALL MOUNTING OF ELECTRICAL EQUIPMENT, ON EQUIPMENT SUPPLIED BY ANOTHER CONTRACTOR, SHALL BE APPROVED IN ADVANCE BY THE OTHER CONTRACTOR.
11. 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.
12. 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.
13. 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.
14. REFER TO ARCHITECTURAL REFLECTED CEILING PLAN, ELECTRICAL, AND OTHER ELECTRICAL PLANS FOR EXACT LOCATIONS OF ALL CEILING MOUNTED DEVICES, OTHER THAN SPRINKLERS.
15. ELECTRICAL IDENTIFICATION. REFER TO SPECIFICATION SECTION 26 05 53 FOR COLOR/LABEL REQUIREMENTS FOR CONDUIT, BOX, CABLE/WIRE, AND EQUIPMENT.

ELECTRICAL SHEET INDEX

E000	ELECTRICAL COVERSHEET
E001	SITE - ELECTRICAL
E100A	BASEMENT DEMOLITION - ELECTRICAL - AREA A
E100B	BASEMENT DEMOLITION - ELECTRICAL - AREA B & C
E100D	BASEMENT DEMOLITION - ELECTRICAL - AREA D
E100E	BASEMENT DEMOLITION - ELECTRICAL - AREA E & F
E101A	FIRST FLOOR DEMOLITION - ELECTRICAL - AREA A
E101B	FIRST FLOOR DEMOLITION - ELECTRICAL - AREA B & C
E101D	FIRST FLOOR DEMOLITION - ELECTRICAL - AREA D
E101E	FIRST FLOOR DEMOLITION - ELECTRICAL - AREA E & F
E102A	SECOND FLOOR DEMOLITION - ELECTRICAL - AREA A
E102B	SECOND FLOOR DEMOLITION - ELECTRICAL - AREA B & C
E102D	SECOND FLOOR DEMOLITION - ELECTRICAL - AREA D
E102E	SECOND FLOOR DEMOLITION - ELECTRICAL - AREA E & G
E103	ROOF DEMOLITION - ELECTRICAL
E201A	BASEMENT - ELECTRICAL - AREA A
E201B	BASEMENT - ELECTRICAL - AREA B & C
E201D	BASEMENT - ELECTRICAL - AREA D
E201E	BASEMENT - ELECTRICAL - AREA E & F
E202A	FIRST FLOOR - ELECTRICAL - AREA A
E202B	FIRST FLOOR - ELECTRICAL - AREA B & C
E202D	FIRST FLOOR - ELECTRICAL - AREA D
E202E	FIRST FLOOR - ELECTRICAL - AREA E & F
E203A	SECOND FLOOR - ELECTRICAL - AREA A
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E203D	SECOND FLOOR - ELECTRICAL - AREA D
E203E	SECOND FLOOR - ELECTRICAL - AREA E & G
E204	ROOF - ELECTRICAL
E400	ELECTRICAL DETAILS
E500	ELECTRICAL RISER DIAGRAM
E501	ELECTRICAL RISER DIAGRAM
E502	ELECTRICAL RISER DIAGRAM
E600	ELECTRICAL SCHEDULES
E601	ELECTRICAL SCHEDULES
E602	ELECTRICAL SCHEDULES
E700	PANEL SCHEDULES
E701	PANEL SCHEDULES
E702	PANEL SCHEDULES
GRAND TOTAL: 38	

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REVISIONS

No.	Date	Revision / Issue

SHEET INFORMATION

Issue	BID DOCUMENTS
Date	JANUARY 28, 2022
Job Number	21002885.03
Drawn	JERVET
Checked	BRILEA
Approved	JERVET

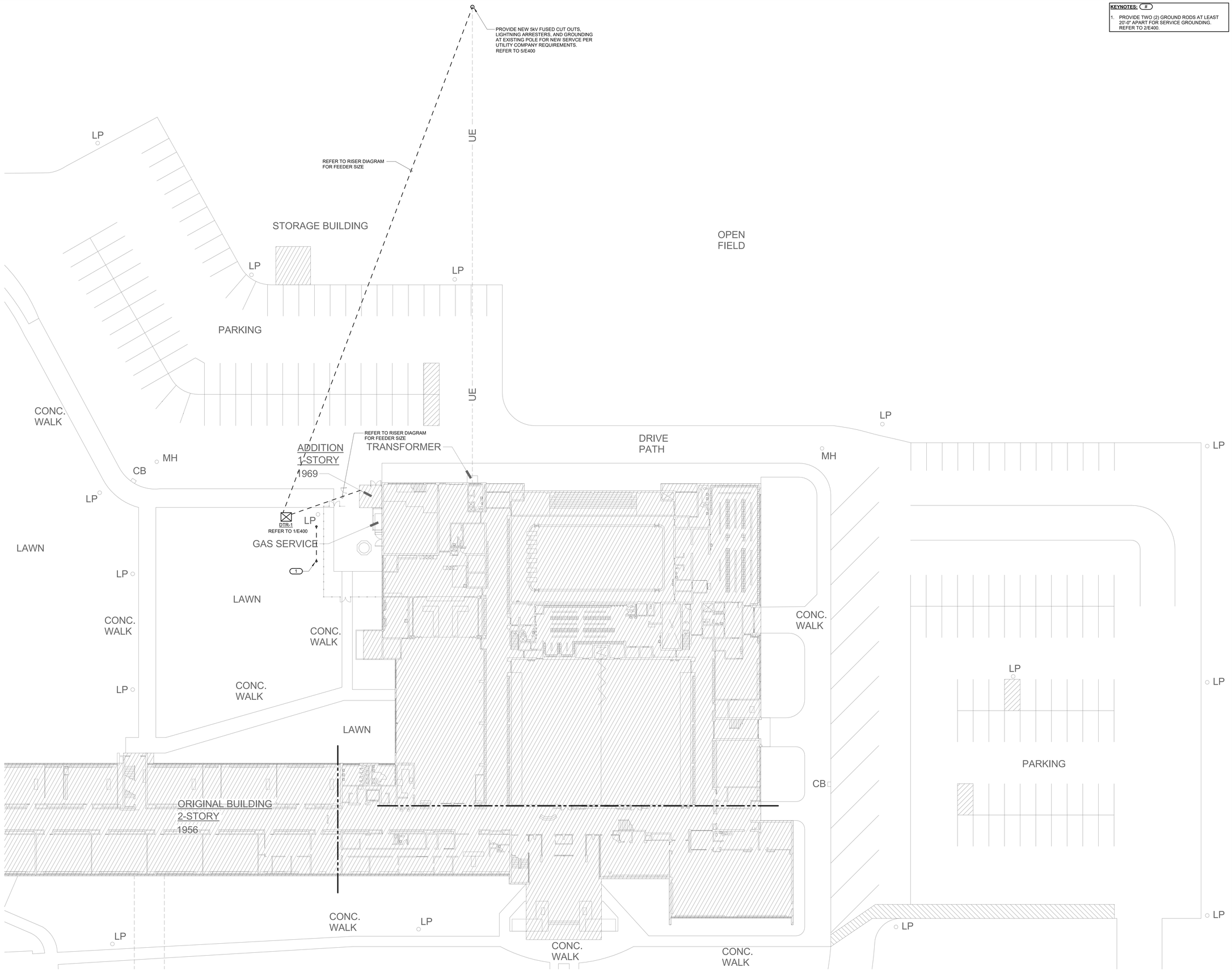
SHEET TITLE
ELECTRICAL COVERSHEET

SCALE
Scale: As indicated

SHEET NUMBER
E000

KEYNOTES: #

1. PROVIDE TWO (2) GROUND RODS AT LEAST 20'-0" APART FOR SERVICE GROUNDING. REFER TO 2/E400.



1 **SITE - ELECTRICAL**
1" = 20'-0"

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SHEET TITLE
SITE - ELECTRICAL

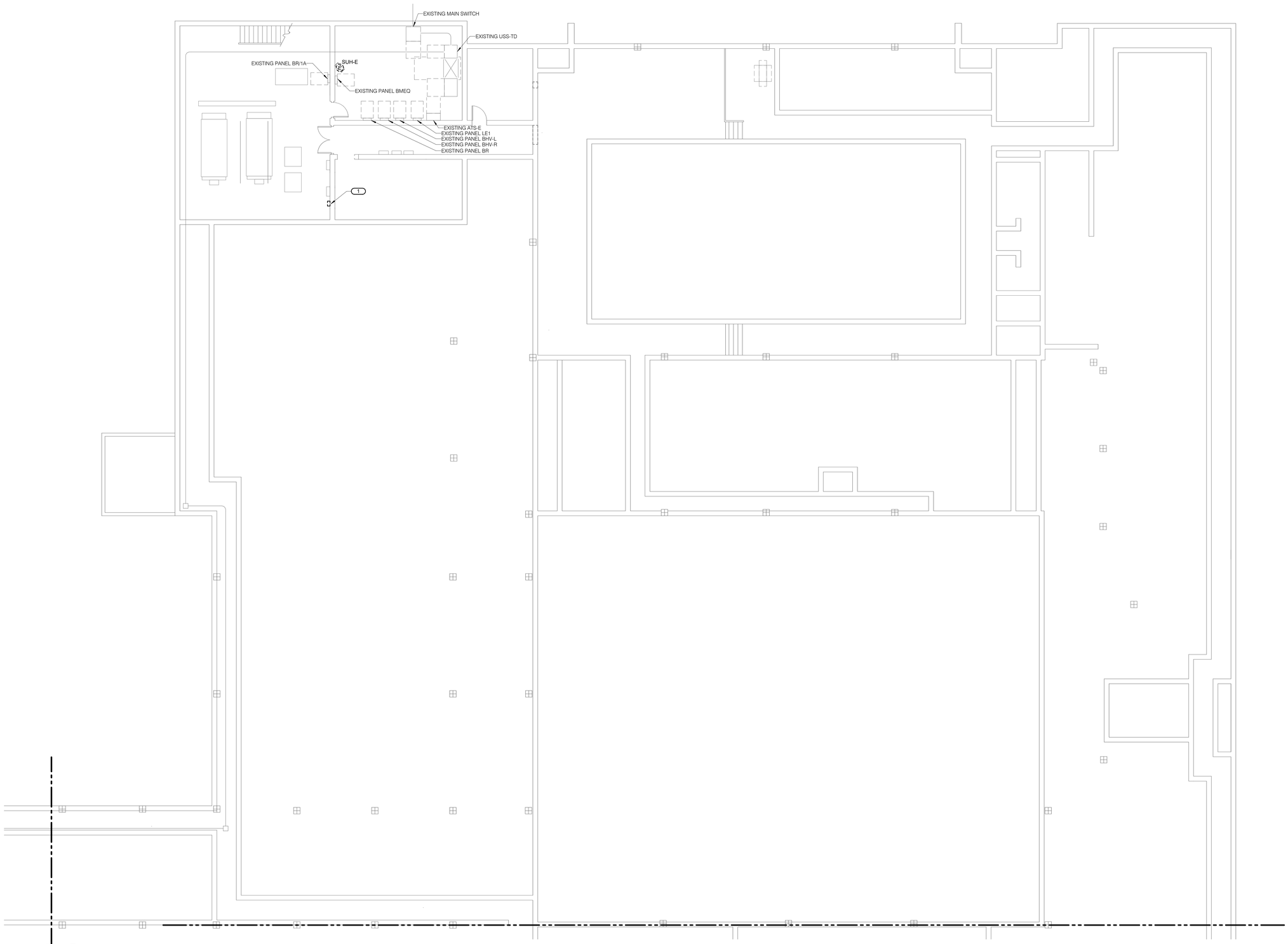
SCALE
Scale: 1" = 20'-0"

SHEET NUMBER
E001

21002885.03 1/28/2022 11:39:56 AM ESSER HVAC Improvements - Flinn Middle School

KEYNOTES: #

1. DISCONNECT AND REMOVE SUMP PUMP CONTROL PANEL AND SALVAGE FOR RELOCATION. REMOVE CONDUIT AND WIRE TO EAST WALL.



1 **BASEMENT DEMOLITION - ELECTRICAL - AREA A**
1/8" = 1'-0"

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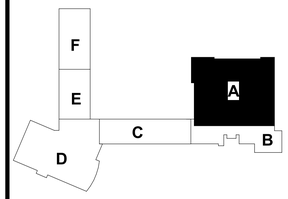
KEY PLAN



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Approved	**JERVET**

SHEET TITLE

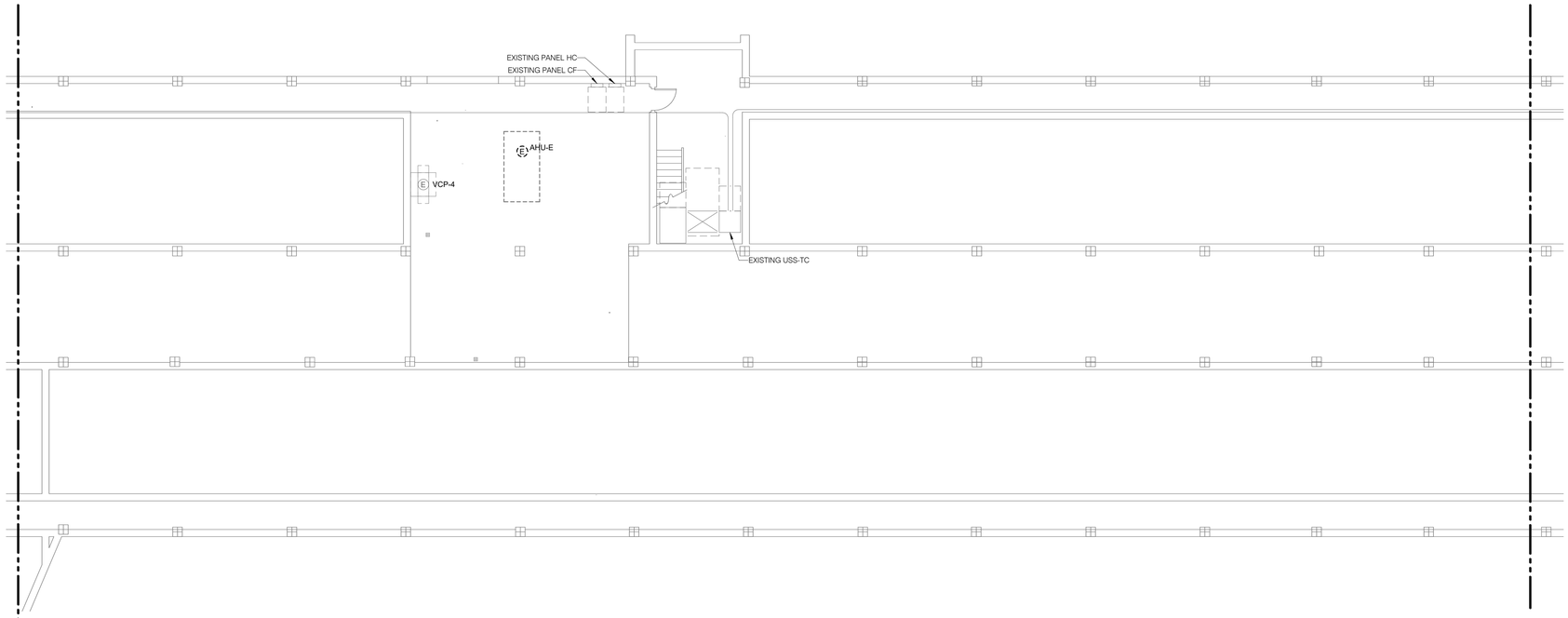
BASEMENT DEMOLITION - ELECTRICAL - AREA A

SCALE

Scale: **As indicated**

SHEET NUMBER

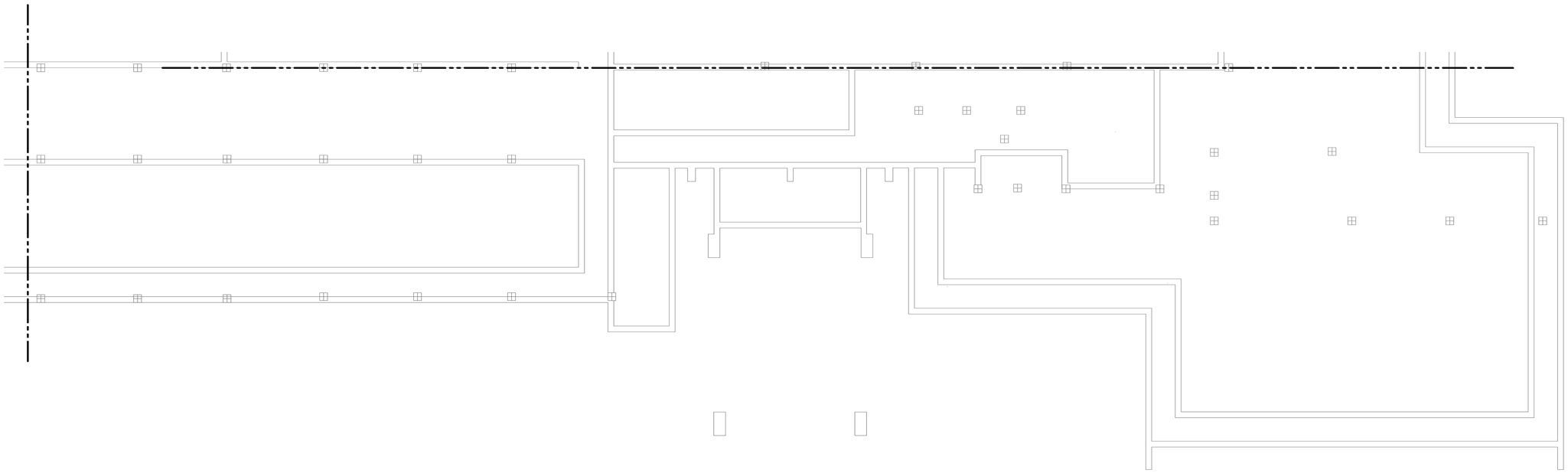
E100A



NORTH

1 BASEMENT DEMOLITION - ELECTRICAL - AREA C

1/8" = 1'-0"



NORTH

2 BASEMENT DEMOLITION - ELECTRICAL - AREA B

1/8" = 1'-0"

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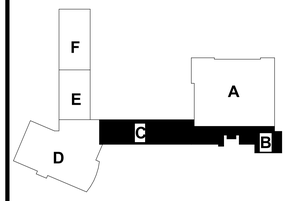
KEY PLAN



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SHEET TITLE

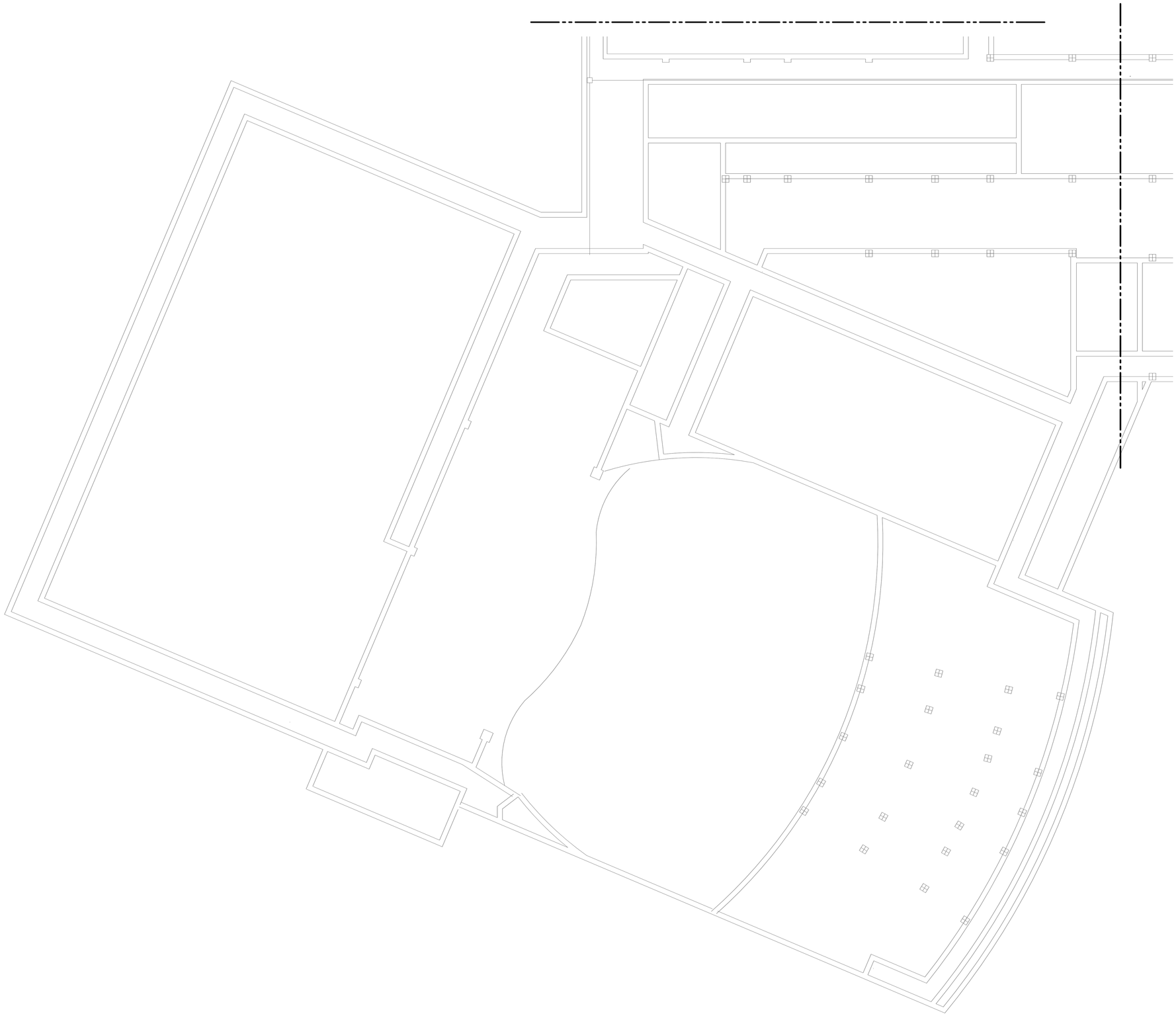
BASEMENT DEMOLITION - ELECTRICAL - AREA B & C

SCALE

Scale: As indicated

SHEET NUMBER

E100B



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

NORTH

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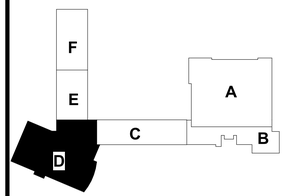
KEY PLAN



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SHEET TITLE

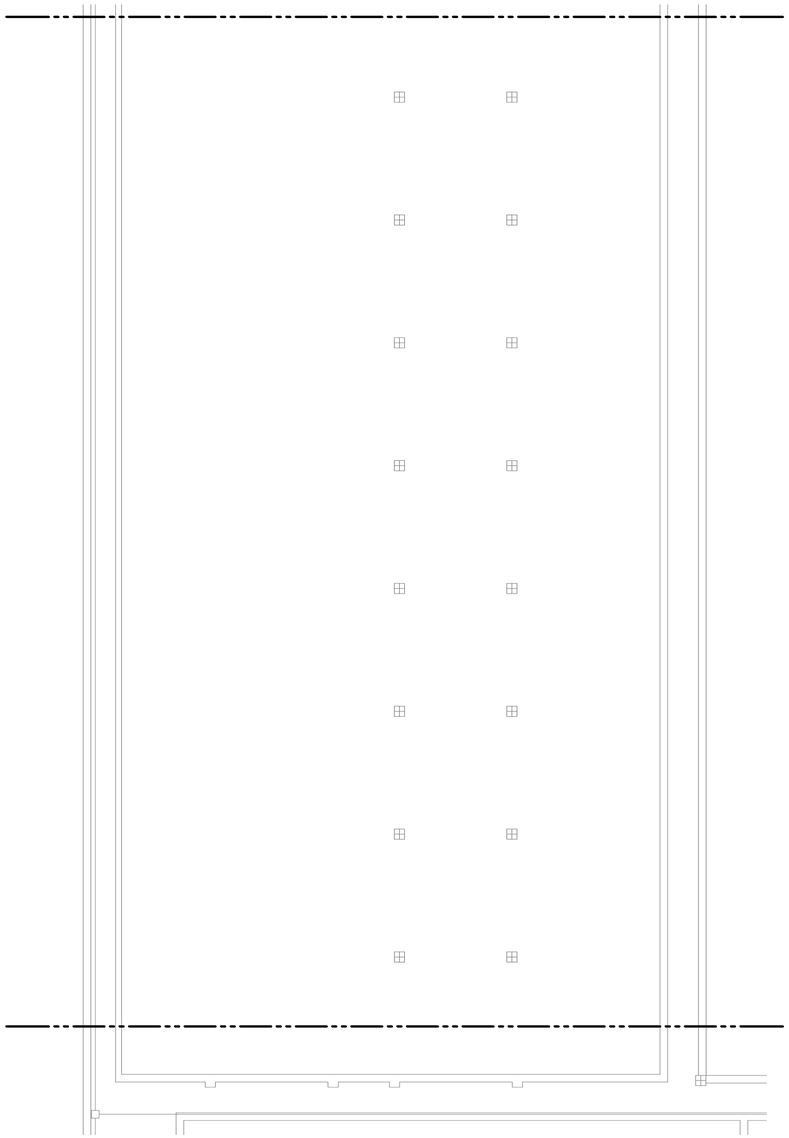
BASEMENT DEMOLITION - ELECTRICAL - AREA D

SCALE

Scale: **As indicated**

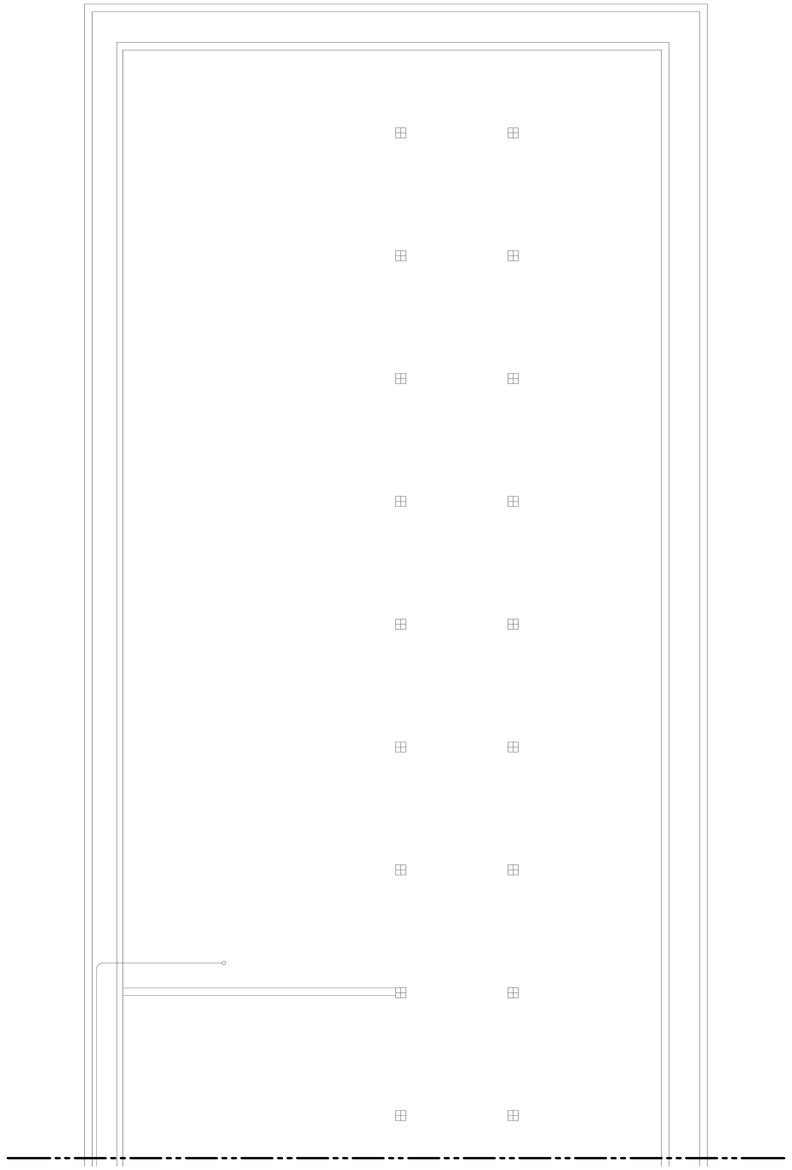
SHEET NUMBER

E100D



NORTH

1 **BASEMENT DEMOLITION - ELECTRICAL - AREA E**
1/8" = 1'-0"



NORTH

2 **BASEMENT DEMOLITION - ELECTRICAL - AREA F**
1/8" = 1'-0"

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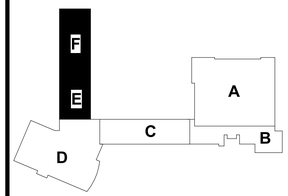
KEY PLAN



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No.	Date	Revision / Issue

SHEET INFORMATION

Issue	**BID DOCUMENTS**
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Job Number	**21002885.03**
Drawn	**JERVET**
Checked	**BRILEA**
Approved	**JERVET**

SHEET TITLE

BASEMENT DEMOLITION - ELECTRICAL - AREA E & F

SCALE

Scale: **As indicated**

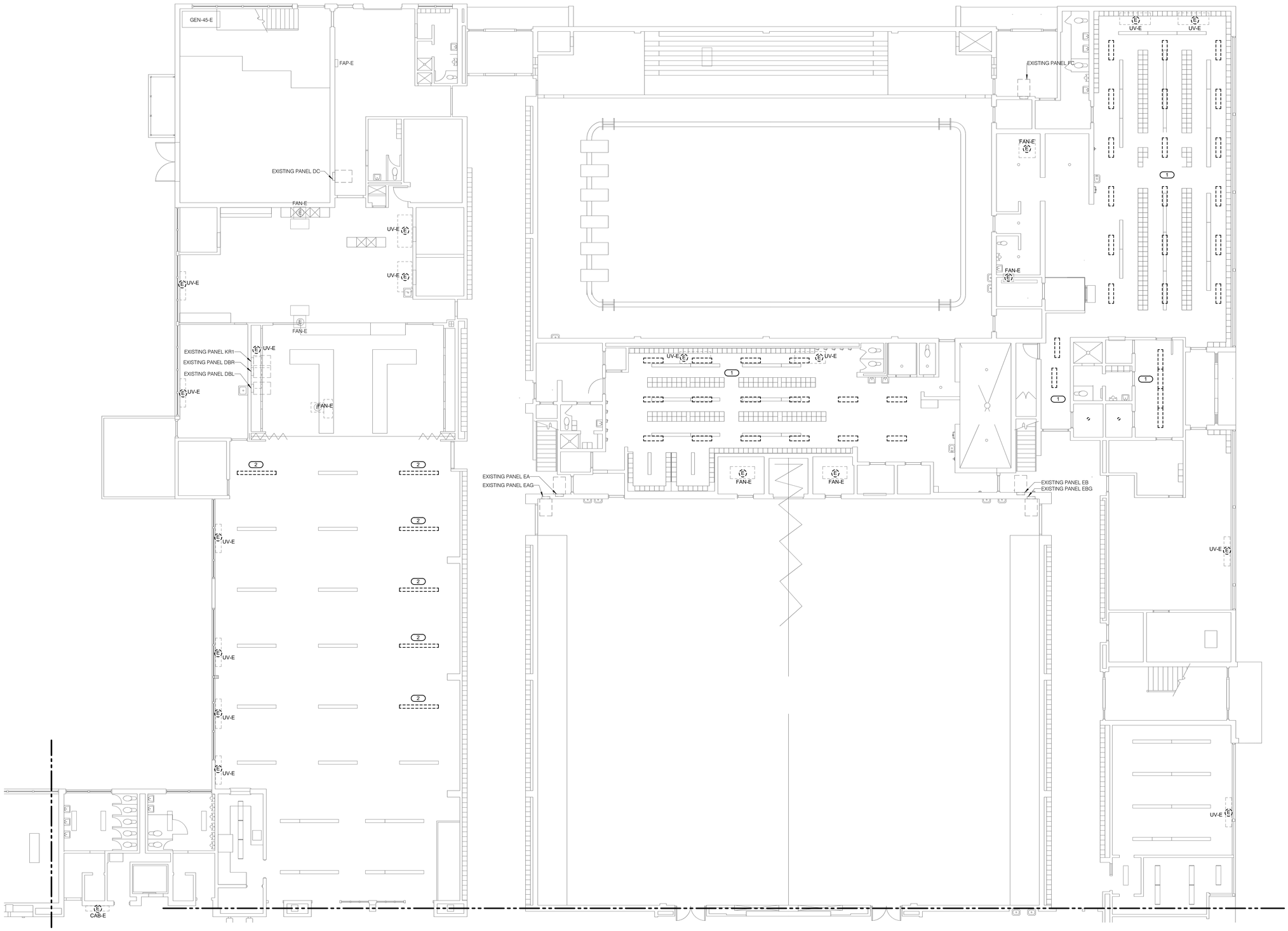
SHEET NUMBER

E100E

21002885.03 1/28/2022 11:40:01 AM ESSER HVAC Improvements - Flinn Middle School

KEYNOTES: #

1. DISCONNECT AND REMOVE EXISTING LIGHT FIXTURES. SALVAGE AND MAINTAIN LIGHTING CIRCUIT FOR REUSE.
2. DISCONNECT AND REMOVE EXISTING LIGHT FIXTURES. SALVAGE EXISTING LIGHT FIXTURES FOR REUSE. SALVAGE AND MAINTAIN LIGHTING CIRCUIT FOR REUSE. TURN UNUSED FIXTURES OVER TO OWNER.



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

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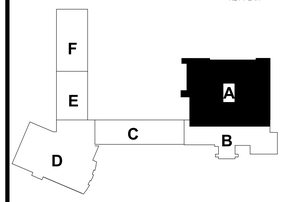
KEY PLAN



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Approved	**JERVET**

SHEET TITLE

FIRST FLOOR DEMOLITION - ELECTRICAL - AREA A

SCALE

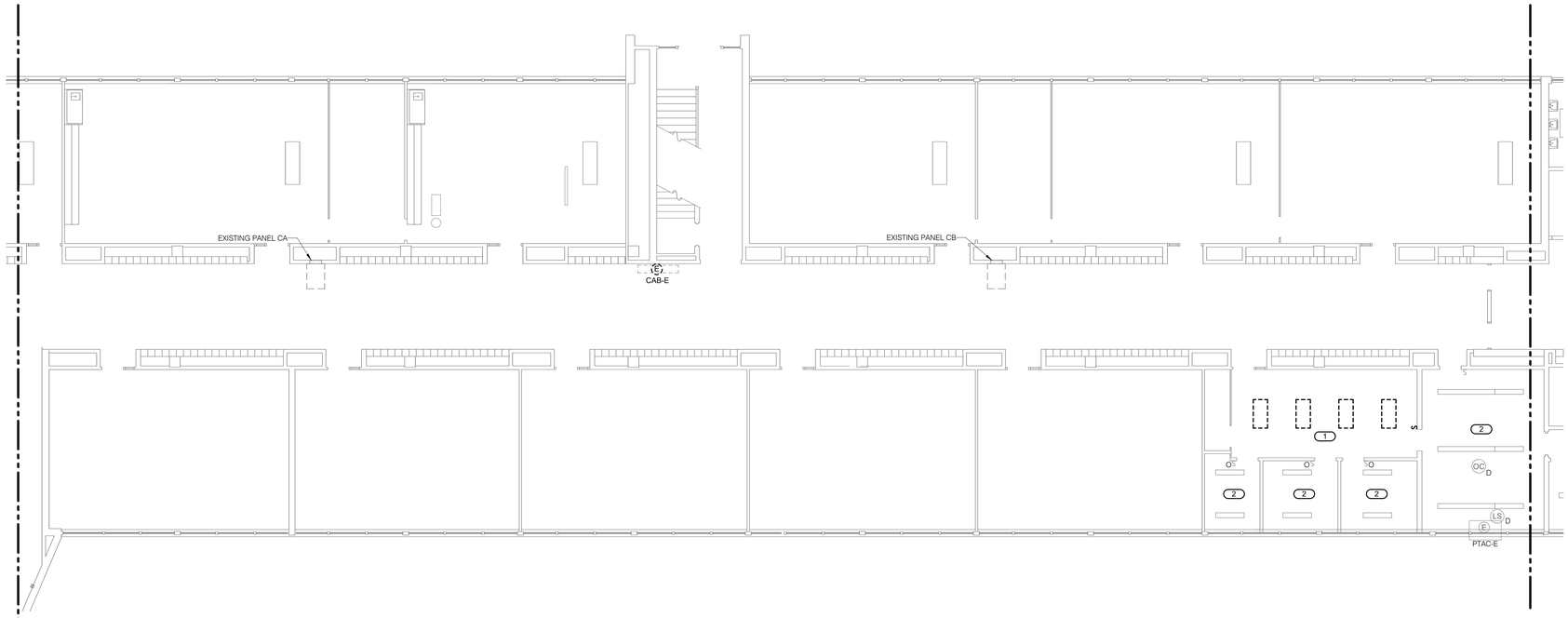
Scale: **As indicated**

SHEET NUMBER

E101A

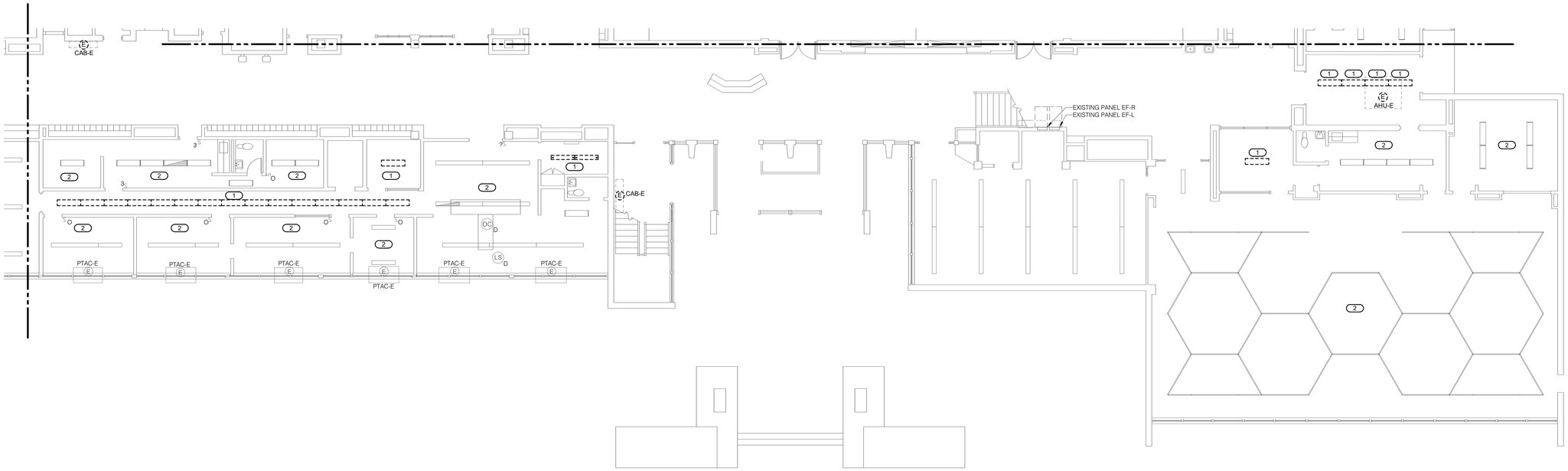
KEYNOTES: #

1. DISCONNECT AND REMOVE EXISTING LIGHT FIXTURES. SALVAGE AND MAINTAIN LIGHTING CIRCUIT FOR REUSE.
2. DISCONNECT AND REMOVE EXISTING LIGHT FIXTURES AND CEILING MOUNTED DEVICES. SALVAGE EXISTING LIGHT FIXTURES AND DEVICES FOR REUSE. SALVAGE AND MAINTAIN LIGHTING CIRCUIT FOR REUSE.



1 FIRST FLOOR DEMOLITION - ELECTRICAL - AREA C

1/8" = 1'-0"



2 FIRST FLOOR DEMOLITION - ELECTRICAL - AREA B

1/8" = 1'-0"

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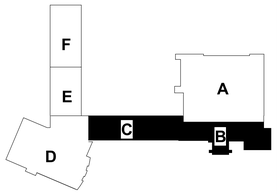

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Approved	JERVET

SHEET TITLE

FIRST FLOOR DEMOLITION - ELECTRICAL - AREA B & C

SCALE

Scale: **As indicated**

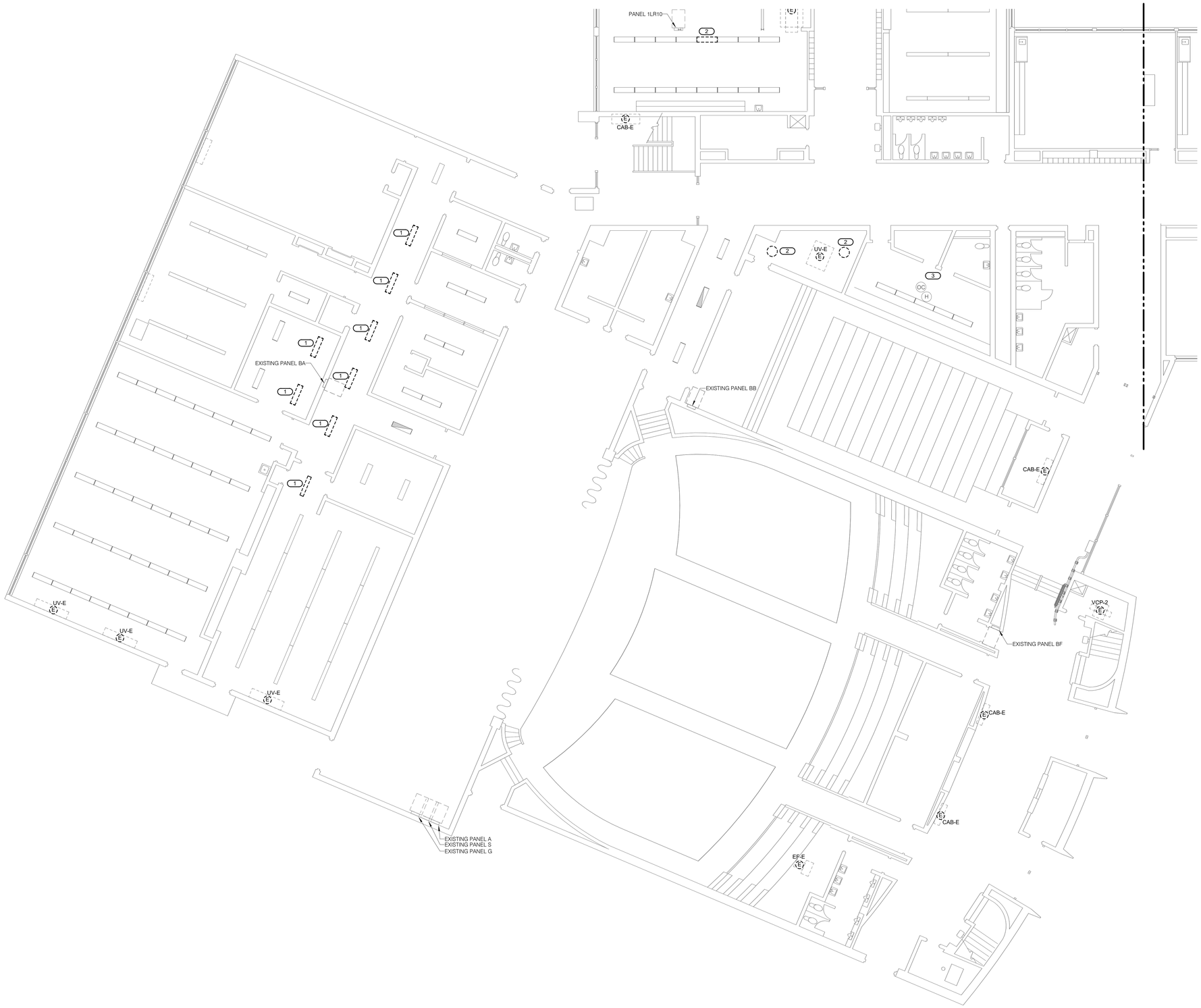
SHEET NUMBER

E101B

21002885.03 1/28/2022 11:40:08 AM ESSER HVAC Improvements - Flinn Middle School

KEYNOTES: #

1. DISCONNECT AND REMOVE EXISTING LIGHT FIXTURES. SALVAGE EXISTING LIGHT FIXTURES FOR REUSE. SALVAGE AND MAINTAIN LIGHTING CIRCUIT FOR REUSE. TURN UNUSED FIXTURES OVER TO OWNER.
2. DISCONNECT AND REMOVE EXISTING LIGHT FIXTURES. SALVAGE AND MAINTAIN LIGHTING CIRCUIT FOR REUSE.
3. DISCONNECT AND REMOVE EXISTING LIGHT FIXTURES AND CEILING MOUNTED DEVICES IN SPACE. SALVAGE FIXTURES AND DEVICES FOR REINSTALLATION. SALVAGE AND MAINTAIN LIGHTING CIRCUIT FOR RECONNECTION.



NORTH

1 FIRST FLOOR DEMOLITION - ELECTRICAL - AREA D

1/8" = 1'-0"

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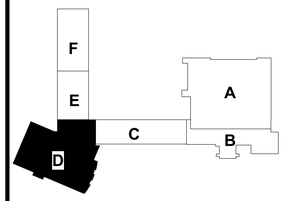
KEY PLAN



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Approved	**JERVET**

SHEET TITLE

FIRST FLOOR DEMOLITION - ELECTRICAL - AREA D

SCALE

Scale: **As indicated**

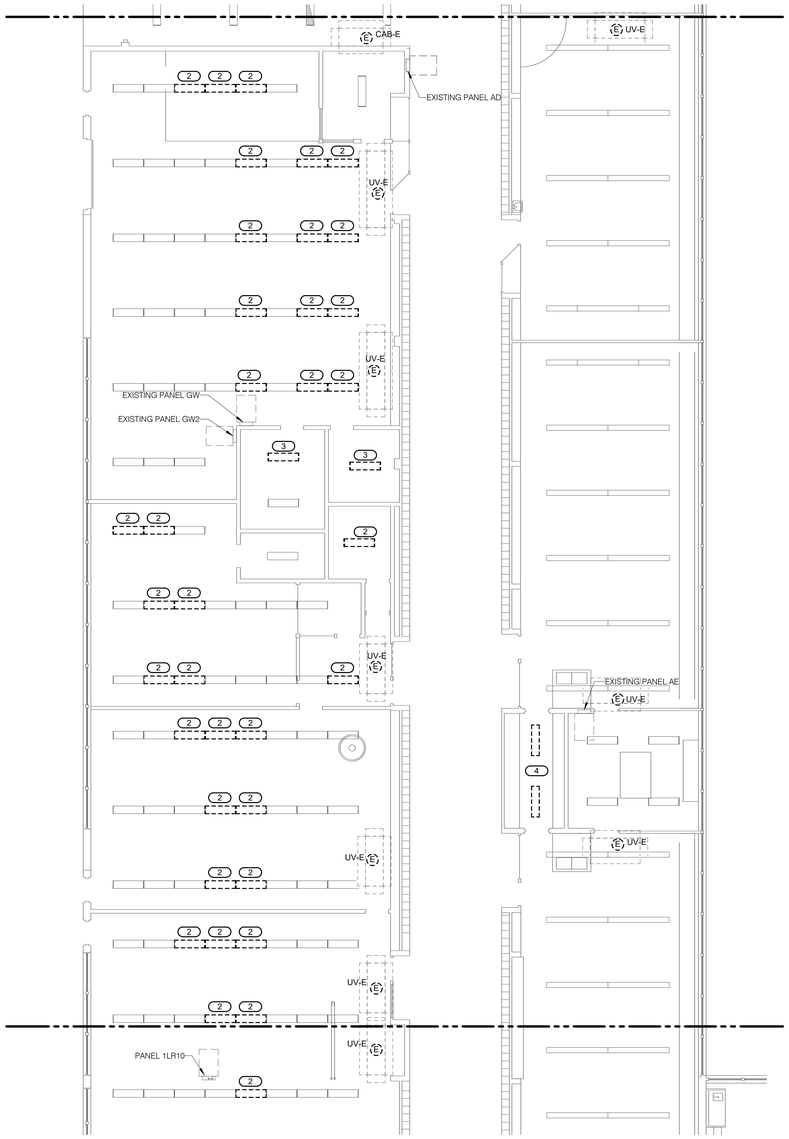
SHEET NUMBER

E101D

21002885.03 1/28/2022 11:40:10 AM ESSER HVAC Improvements - Flinn Middle School

KEYNOTES: #

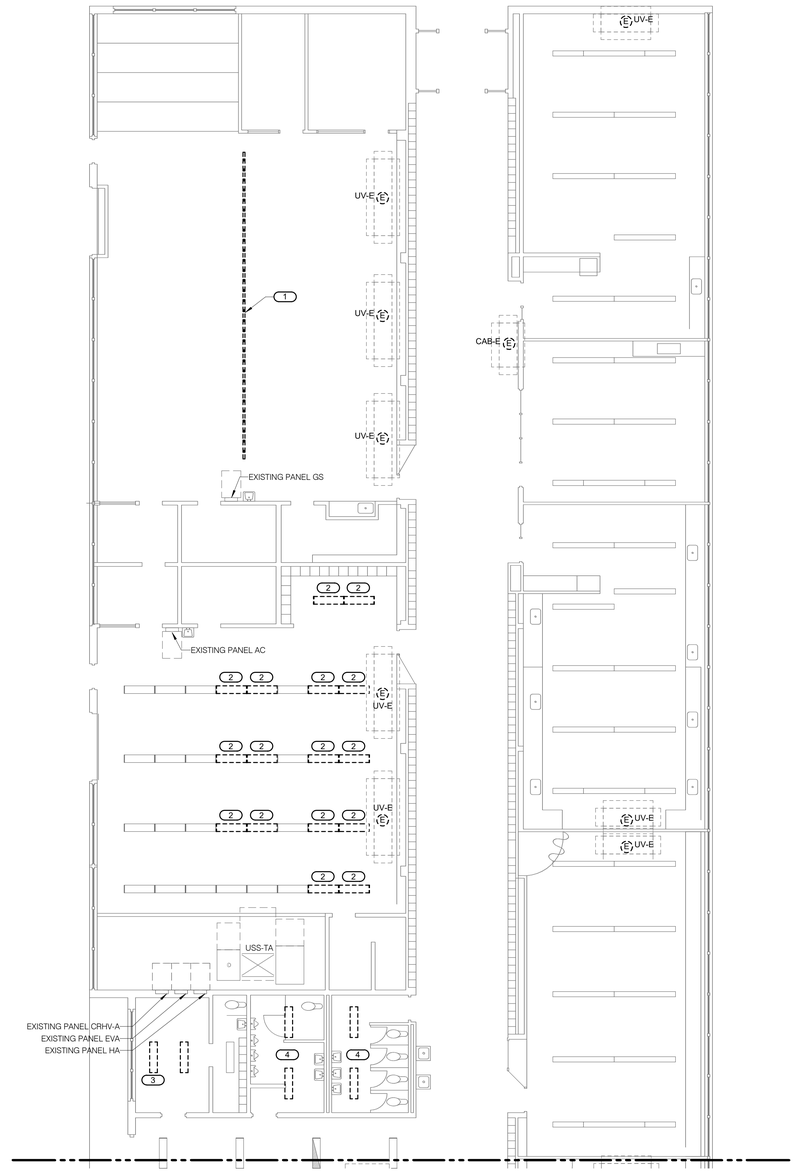
1. REMOVE EXISTING BUS DUCT IN WAY OF NEW DUCTWORK.
2. DISCONNECT AND REMOVE EXISTING LIGHT FIXTURE IN WAY OF NEW HVAC EQUIPMENT AND DUCTWORK. SALVAGE FIXTURE FOR REINSTALLATION. TURN UNUSED FIXTURES OVER TO OWNER. SALVAGE AND MAINTAIN EXISTING LIGHTING CIRCUIT FOR REUSE.
3. ADJUST LOCATION OF FIXTURE AS REQUIRED TO ALLOW FOR INSTALLATION OF NEW HVAC EQUIPMENT OR DUCTWORK.
4. DISCONNECT AND REMOVE EXISTING LIGHT FIXTURE IN WAY OF NEW HVAC EQUIPMENT AND DUCTWORK. SALVAGE AND MAINTAIN EXISTING LIGHTING CIRCUIT FOR REUSE.



NORTH

1 FIRST FLOOR DEMOLITION - ELECTRICAL - AREA E

1/8" = 1'-0"



NORTH

2 FIRST FLOOR DEMOLITION - ELECTRICAL - AREA F

1/8" = 1'-0"

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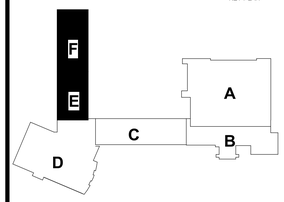

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Approved	JERVET

SHEET TITLE

FIRST FLOOR DEMOLITION - ELECTRICAL - AREA E & F

SCALE

Scale: **As indicated**

SHEET NUMBER

E101E

KEYNOTES: #

1. DISCONNECT AND REMOVE EXISTING LIGHT FIXTURES. SALVAGE AND MAINTAIN LIGHTING CIRCUIT FOR REUSE.

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

NORTH

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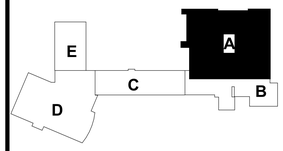
KEY PLAN



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Approved	JERVET

SHEET TITLE

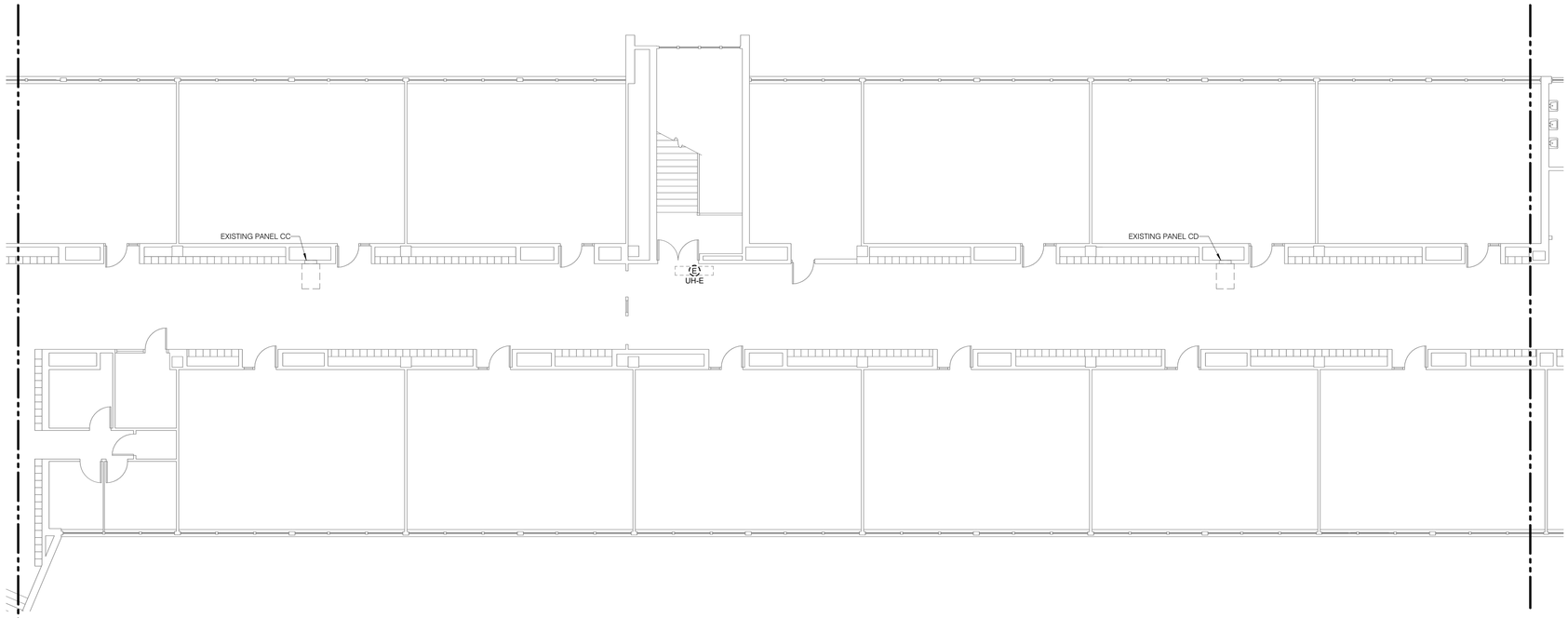
SECOND FLOOR DEMOLITION - ELECTRICAL - AREA A

SCALE

Scale: **As indicated**

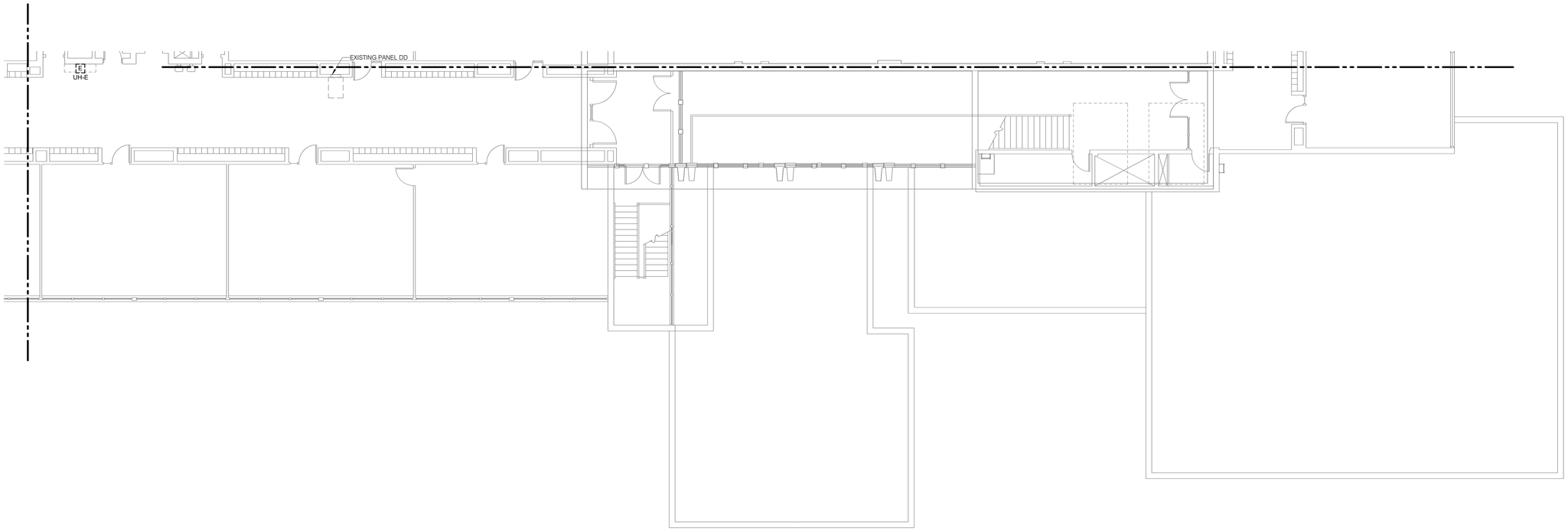
SHEET NUMBER

E102A



NORTH

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



NORTH

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

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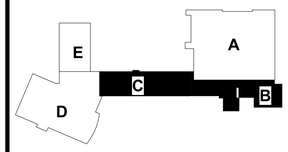
KEY PLAN



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Approved	**JERVET**

SHEET TITLE

SECOND FLOOR DEMOLITION - ELECTRICAL - AREA B & C

SCALE

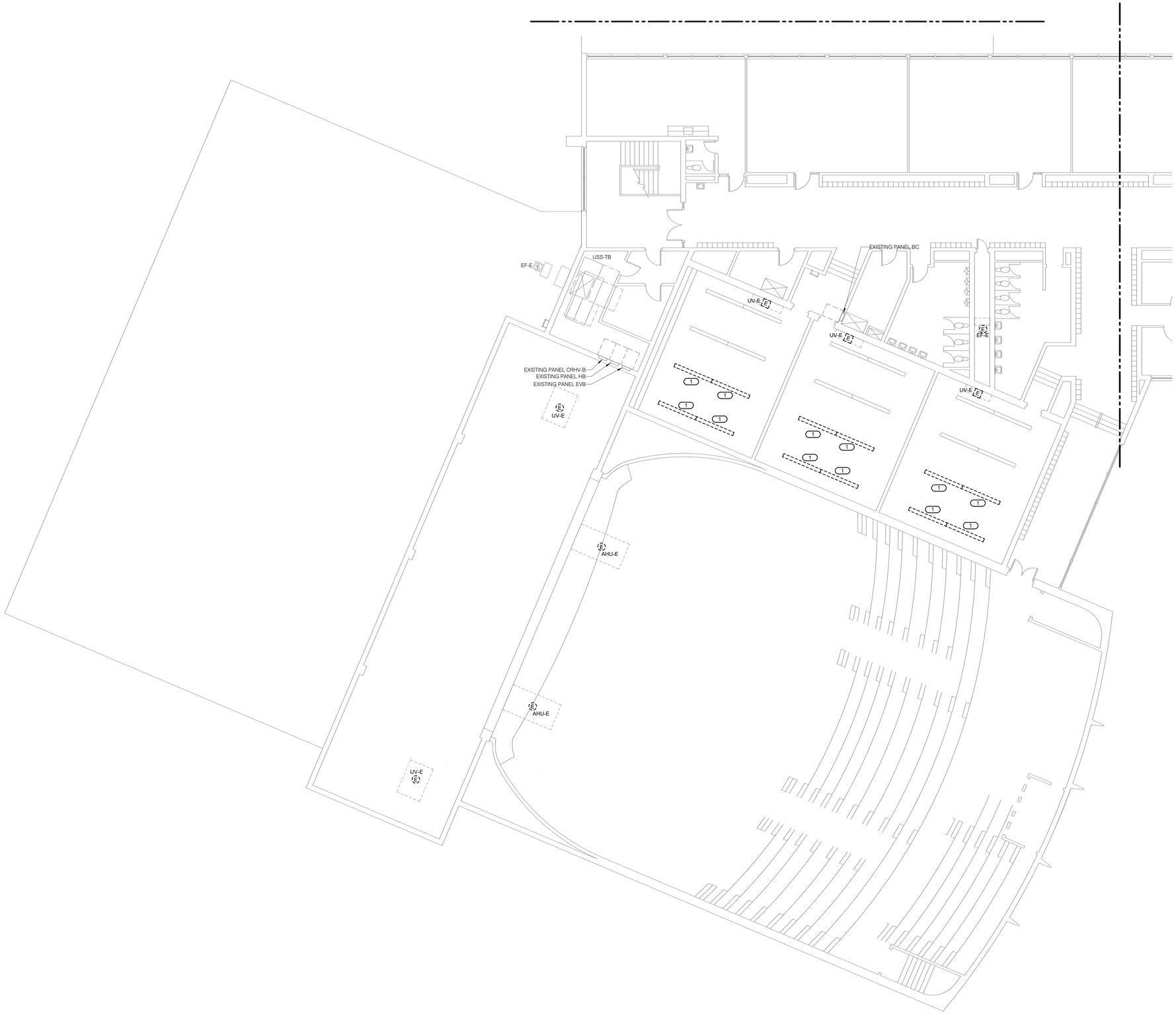
Scale: **As indicated**

SHEET NUMBER

E102B

KEYNOTES: #

1. DISCONNECT AND REMOVE EXISTING LIGHT FIXTURES. SALVAGE EXISTING LIGHT FIXTURES FOR REUSE. SALVAGE AND MAINTAIN LIGHTING CIRCUIT FOR REUSE. TURN UNUSED FIXTURES OVER TO OWNER.



NORTH

1 **SECOND FLOOR DEMOLITION - ELECTRICAL - AREA D**

1/8" = 1'-0"

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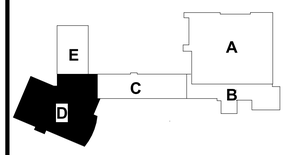
KEY PLAN



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SHEET TITLE

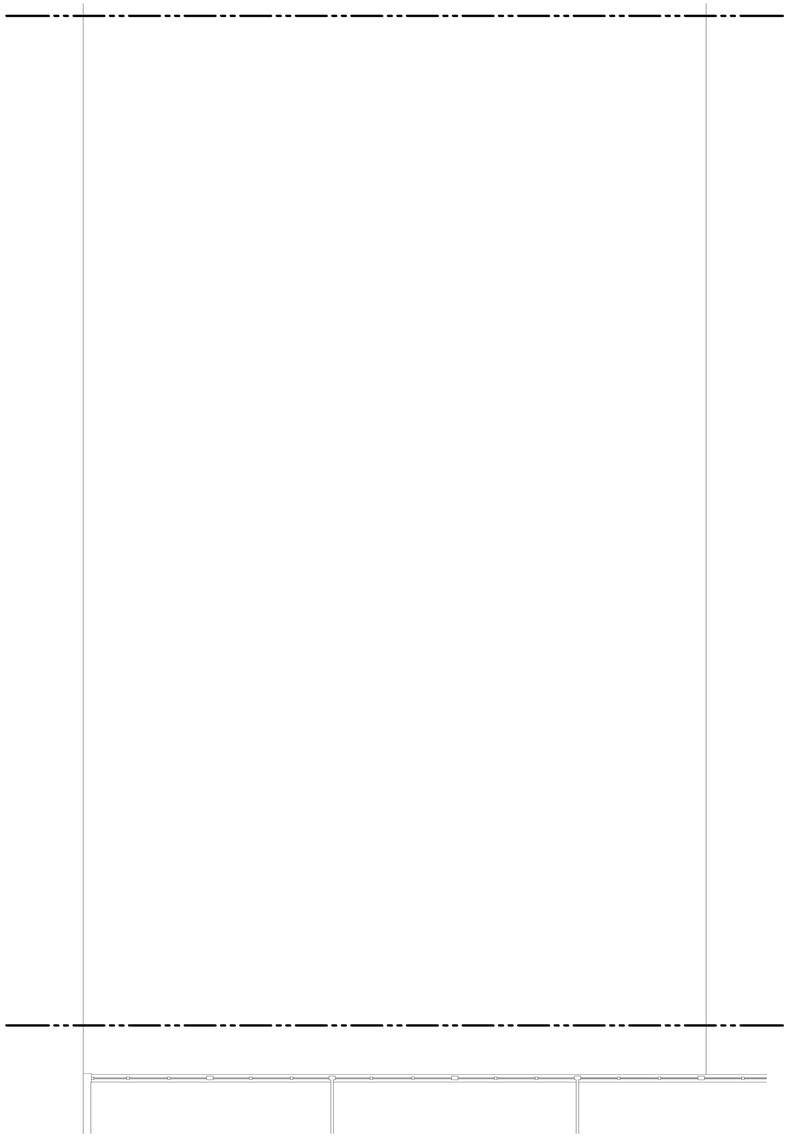
SECOND FLOOR DEMOLITION - ELECTRICAL - AREA D

SCALE

Scale: **As indicated**

SHEET NUMBER

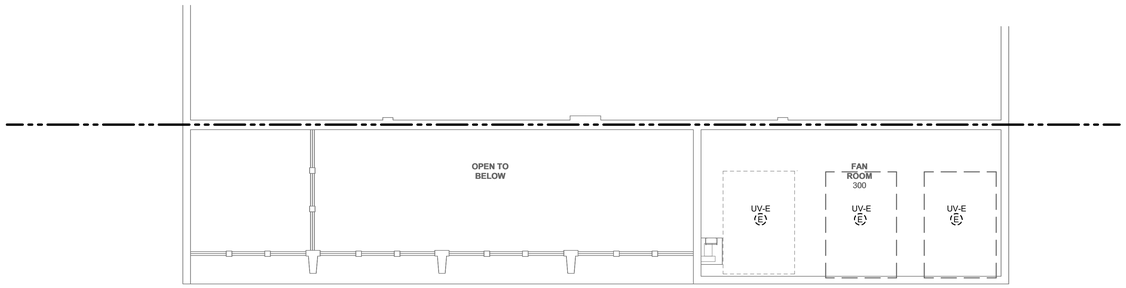
E102D



1 NORTH

SECOND FLOOR DEMOLITION - ELECTRICAL - AREA E

1/8" = 1'-0"



2 NORTH

SECOND FLOOR FAN ROOM DEMOLITION - ELECTRICAL

1/8" = 1'-0"

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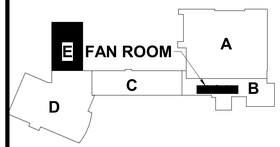

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SHEET TITLE

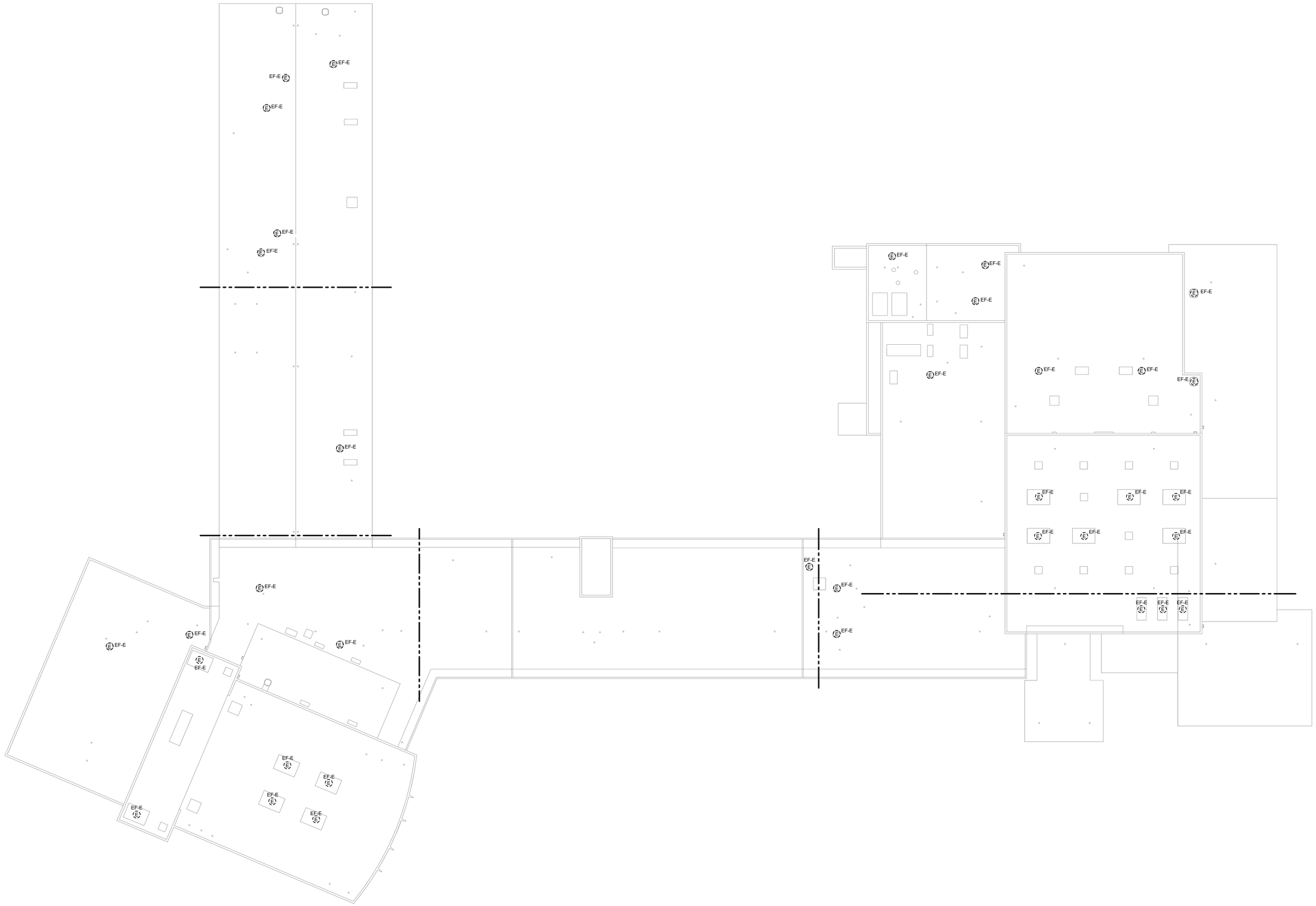
SECOND FLOOR DEMOLITION - ELECTRICAL - AREA E & G

SCALE

Scale: As indicated

SHEET NUMBER

E102E



1 ROOF DEMOLITION - ELECTRICAL
1" = 20'-0"

NORTH

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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	21002885.03
Drawn	JERVET
Checked	BRILEA
Approved	JERVET

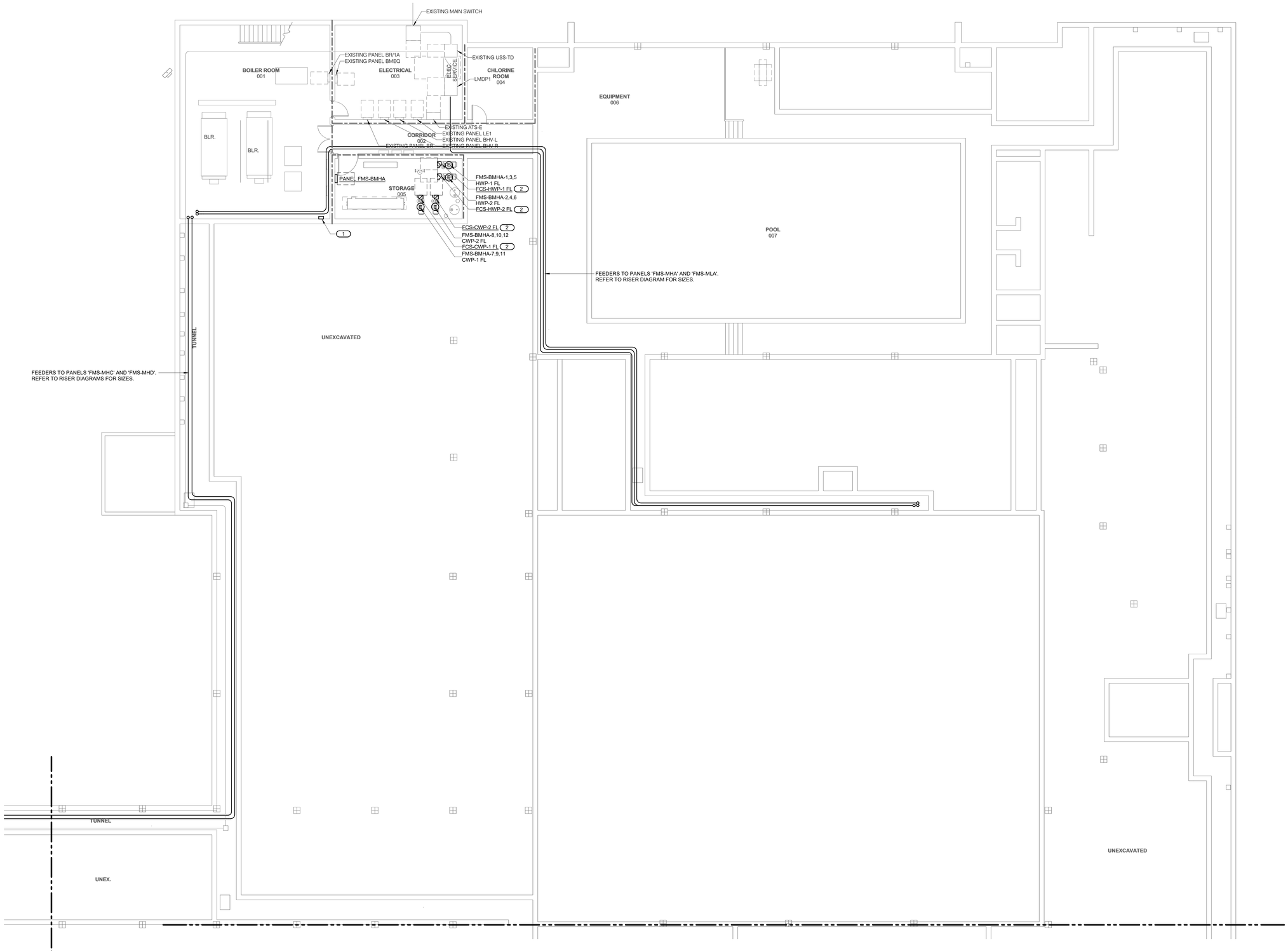
SHEET TITLE
ROOF DEMOLITION - ELECTRICAL

SCALE
Scale: 1" = 20'-0"

SHEET NUMBER
E103

KEYNOTES: #

1. REINSTALL SUMP PUMP CONTROL PANEL. RECONNECT CIRCUIT FEEDING SUMP PUMP. RECONNECT CONTROL WIRES FROM SUMP PUMP.
2. MOUNT STARTERS TO UNISTRUT IN FRONT OF PUMPS.



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

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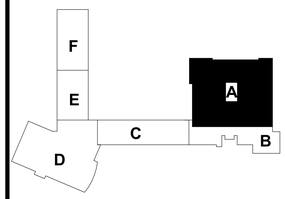
KEY PLAN



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SHEET TITLE

BASEMENT - ELECTRICAL - AREA A

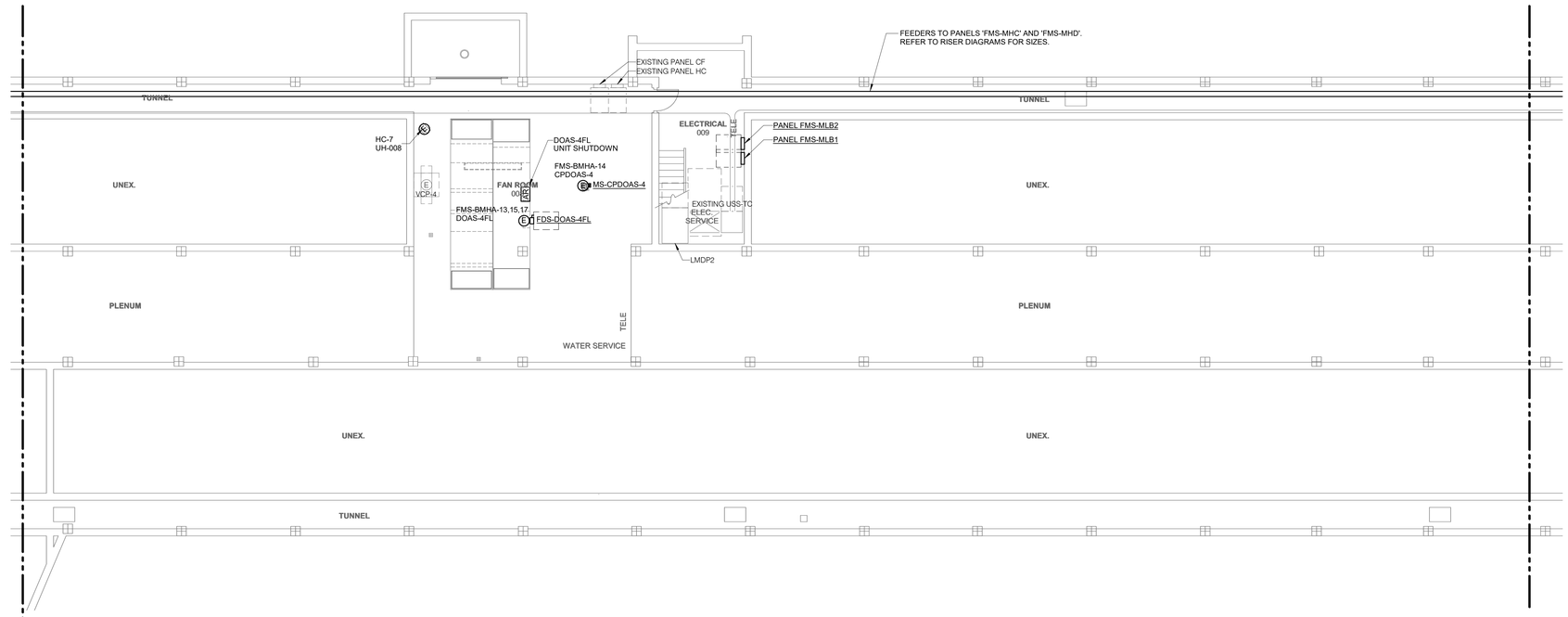
SCALE

Scale: As indicated

SHEET NUMBER

E201A

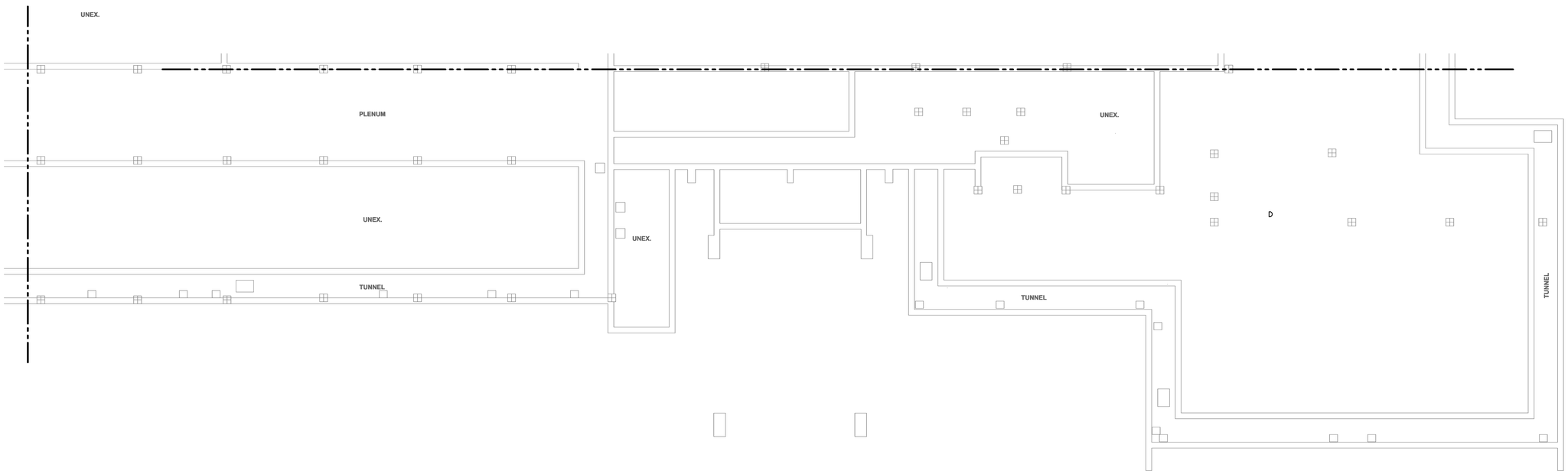
21002885.03 1/28/2022 11:40:23 AM ESSER HVAC Improvements - Flinn Middle School



NORTH

1 BASEMENT - ELECTRICAL - AREA C

1/8" = 1'-0"



NORTH

2 BASEMENT - ELECTRICAL - AREA B

1/8" = 1'-0"

21002885.03 1/28/2022 11:40:25 AM ESSER HVAC Improvements - Flinn Middle School

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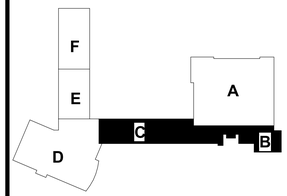
KEY PLAN



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Approved	JERVET

SHEET TITLE

BASEMENT - ELECTRICAL - AREA B & C

SCALE

Scale: As indicated

SHEET NUMBER

E201B

NORTH

1 **BASEMENT - ELECTRICAL - AREA D**

1/8" = 1'-0"

21002885.03 1/28/2022 11:40:26 AM ESSER HVAC Improvements - Flinn Middle School

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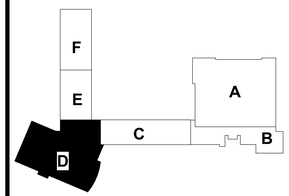

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Job Number	**21002885.03**
Drawn	**JERVET**
Checked	**BRILEA**
Approved	**JERVET**

SHEET TITLE

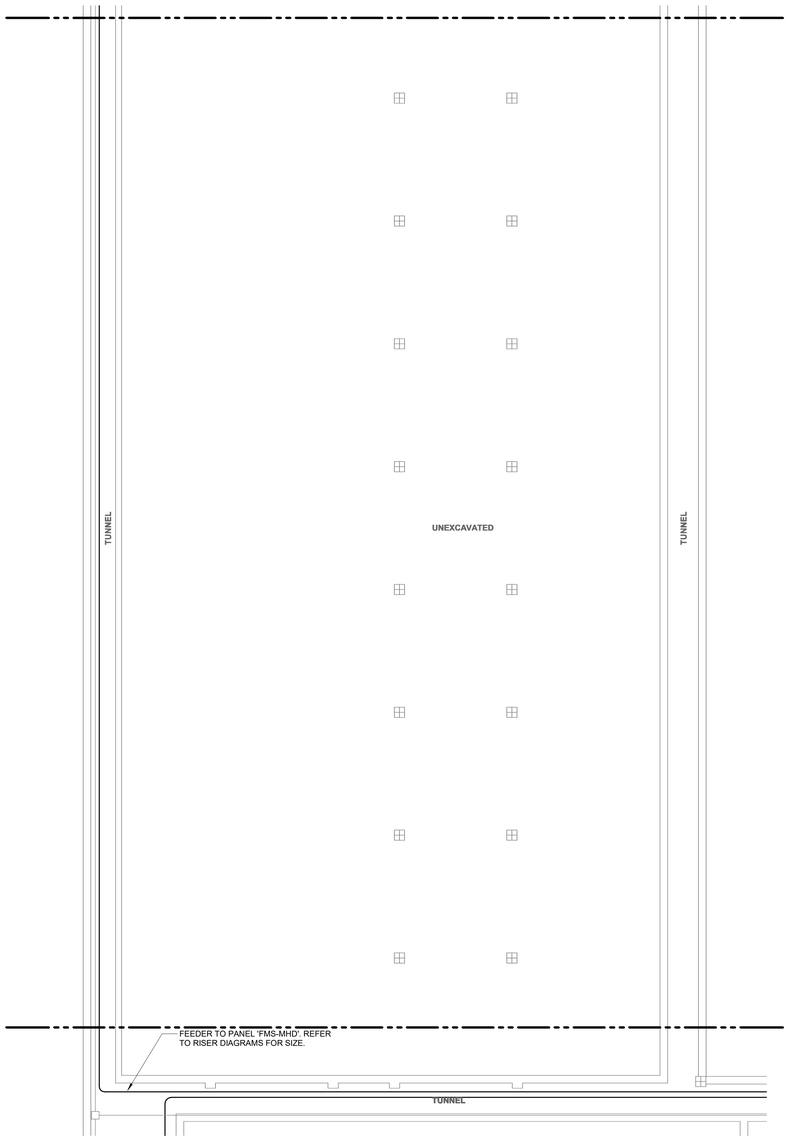
BASEMENT - ELECTRICAL - AREA D

SCALE

Scale: **As indicated**

SHEET NUMBER

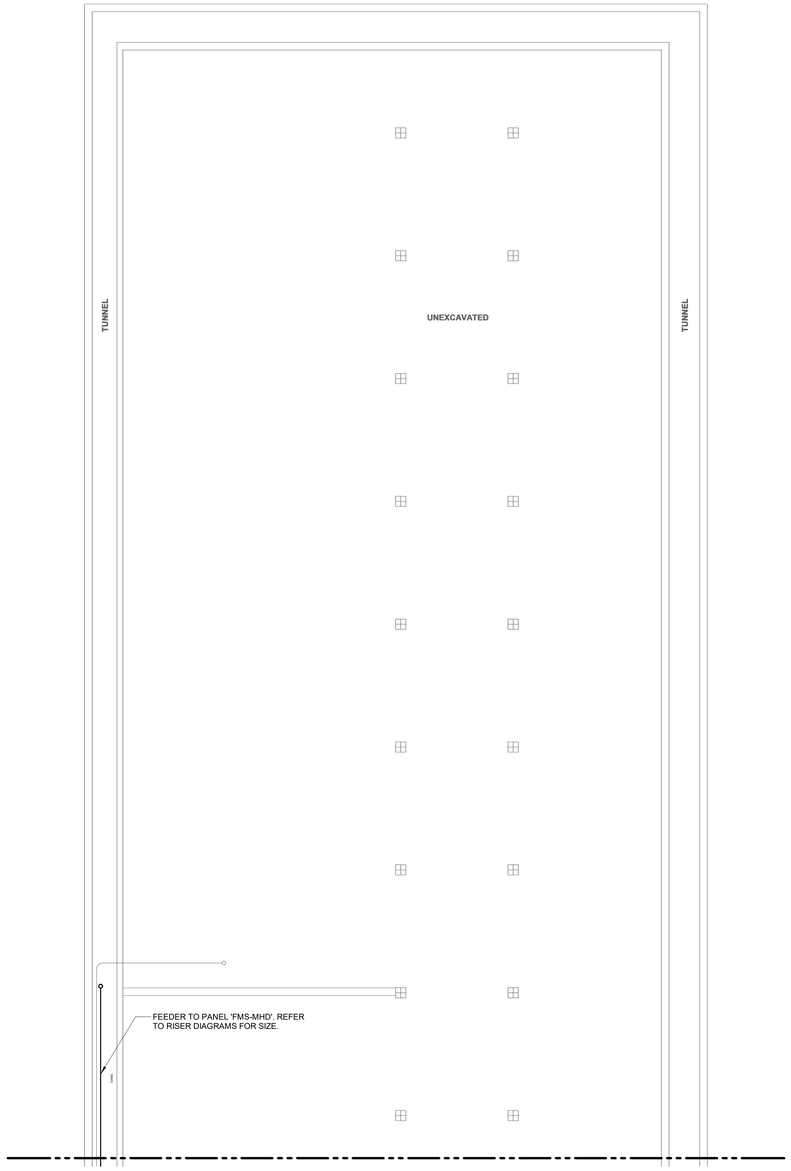
E201D



NORTH

1 BASEMENT - ELECTRICAL - AREA E

1/8" = 1'-0"



NORTH

2 BASEMENT - ELECTRICAL - AREA F

1/8" = 1'-0"

21002885.03 1/28/2022 11:40:27 AM ESSER HVAC Improvements - Flinn Middle School

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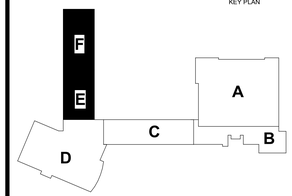
KEY PLAN



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Approved	JERVET

SHEET TITLE

BASEMENT - ELECTRICAL - AREA E & F

SCALE

Scale: As indicated

SHEET NUMBER

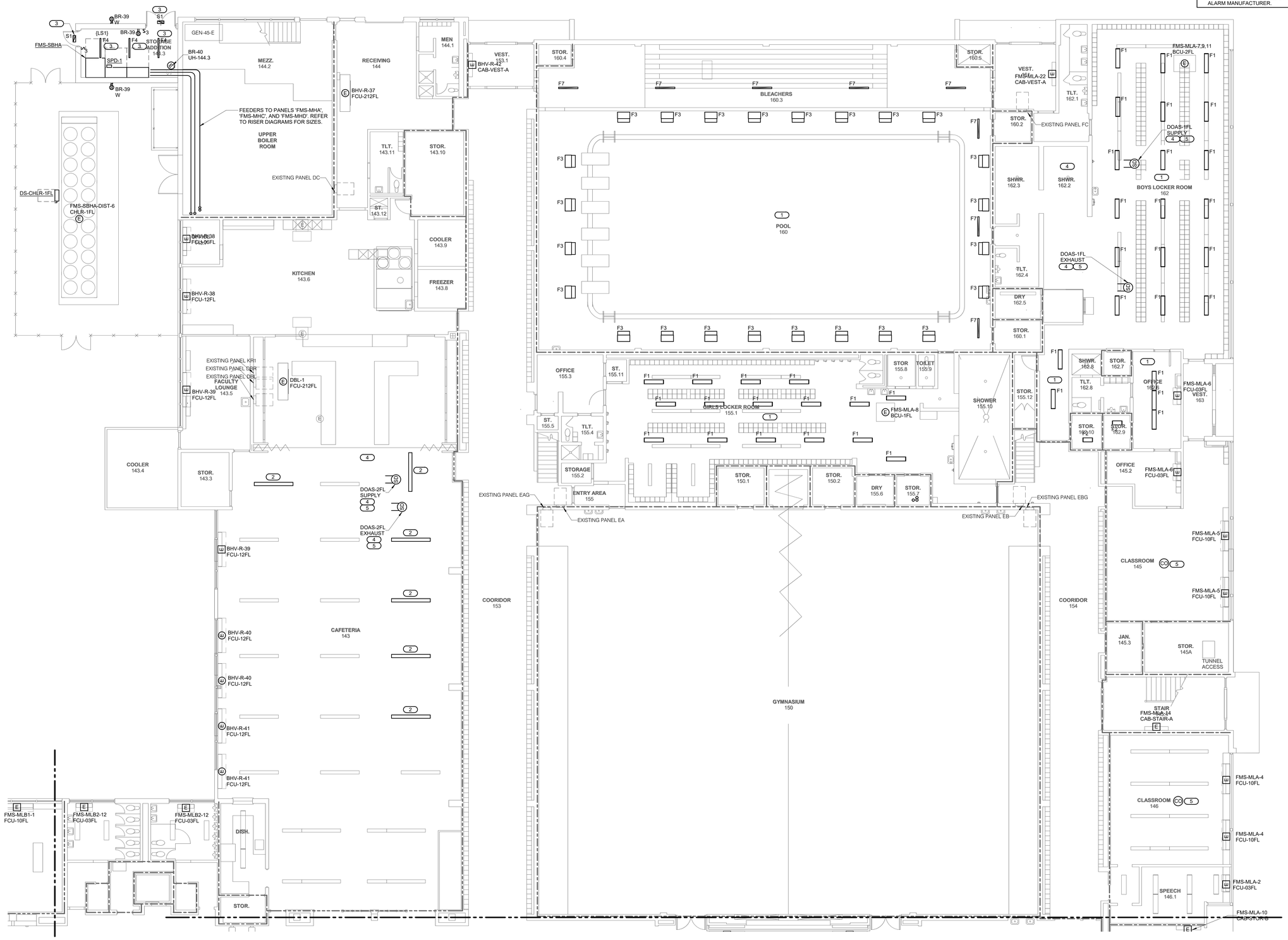
E201E

SHEET NOTES:

1. STARTERS AND DISCONNECTS FURNISHED WITH EQUIPMENT UNLESS NOTED OTHERWISE.
2. REFER TO SHEET E203A FOR LOCATION OF PANEL 'FMS-MLA'.

KEYNOTES: (#)

1. UTILIZE LIGHTING CIRCUIT SALVAGED FROM DEMOLITION TO FEED NEW FIXTURES. MATCH CONDUIT AND WIRE SIZE.
2. REINSTALL FIXTURE SALVAGED FROM DEMOLITION. UTILIZE LIGHTING CIRCUIT SALVAGED FROM DEMOLITION TO FEED FIXTURES.
3. EXTEND BOILER LIGHTING CIRCUIT TO NEW FIXTURES.
4. 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.
5. CONNECT TO THE EXISTING FIRE ALARM DETECTION CIRCUIT AVAILABLE ON THIS FLOOR AS RECOMMENDED BY THE FIRE ALARM MANUFACTURER.



1 FIRST FLOOR - ELECTRICAL - AREA A

1/8" = 1'-0"

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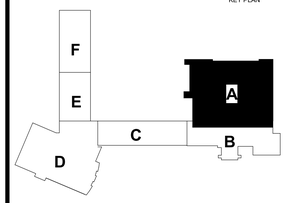
KEY PLAN



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Date	JANUARY 28, 2022
Job Number	21002885.03
Drawn	JERVET
Checked	BRILEA
Approved	JERVET

SHEET TITLE

FIRST FLOOR - ELECTRICAL - AREA A

SCALE

Scale: As indicated

SHEET NUMBER

E202A

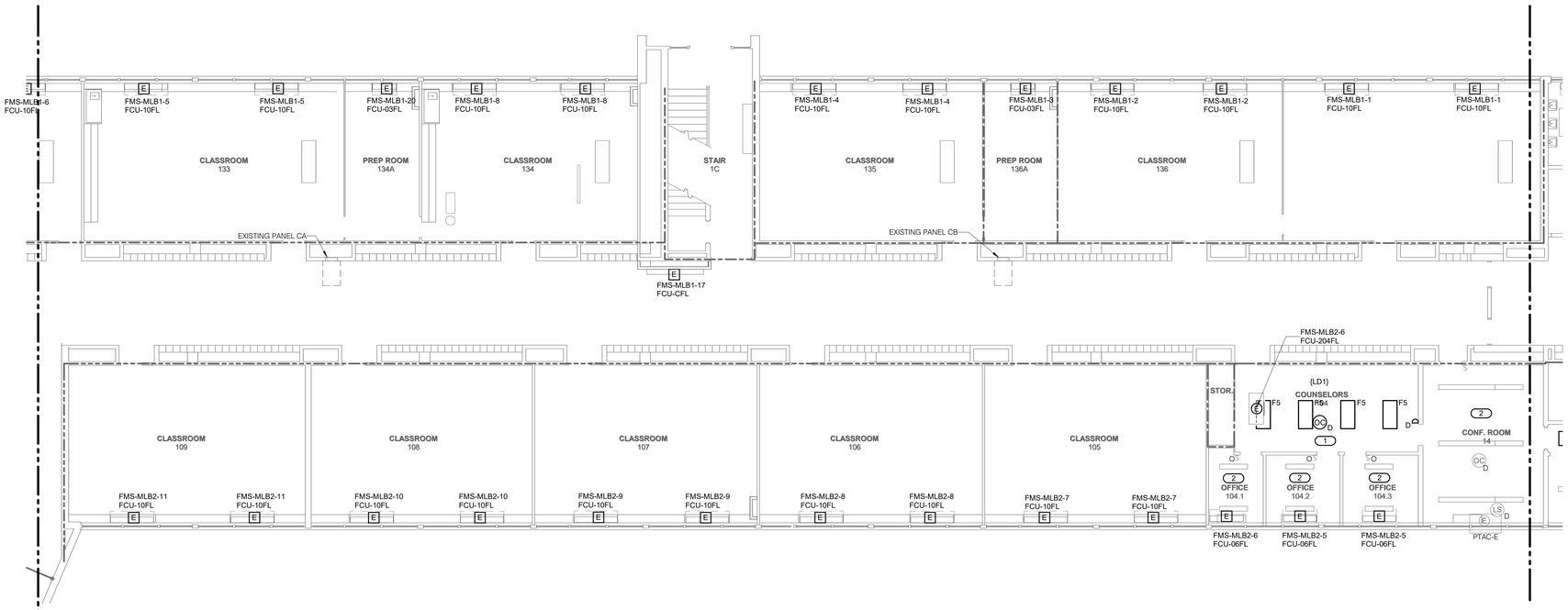
21002885.03 1/28/2022 11:40:32 AM ESSER HVAC Improvements - Flinn Middle School

SHEET NOTES:

1. STARTERS AND DISCONNECTS FURNISHED WITH EQUIPMENT UNLESS NOTED OTHERWISE.
2. REFER TO SHEET E203A FOR LOCATION OF PANEL 'FMS-MLA'.
3. REFER TO SHEET E201B FOR LOCATION OF PANEL 'FMS-MLB'.
4. BRANCH CIRCUITS FEEDING FAN COIL UNITS TO FOLLOW MECHANICAL PIPING TO REACH EQUIPMENT.

KEYNOTES: (#)

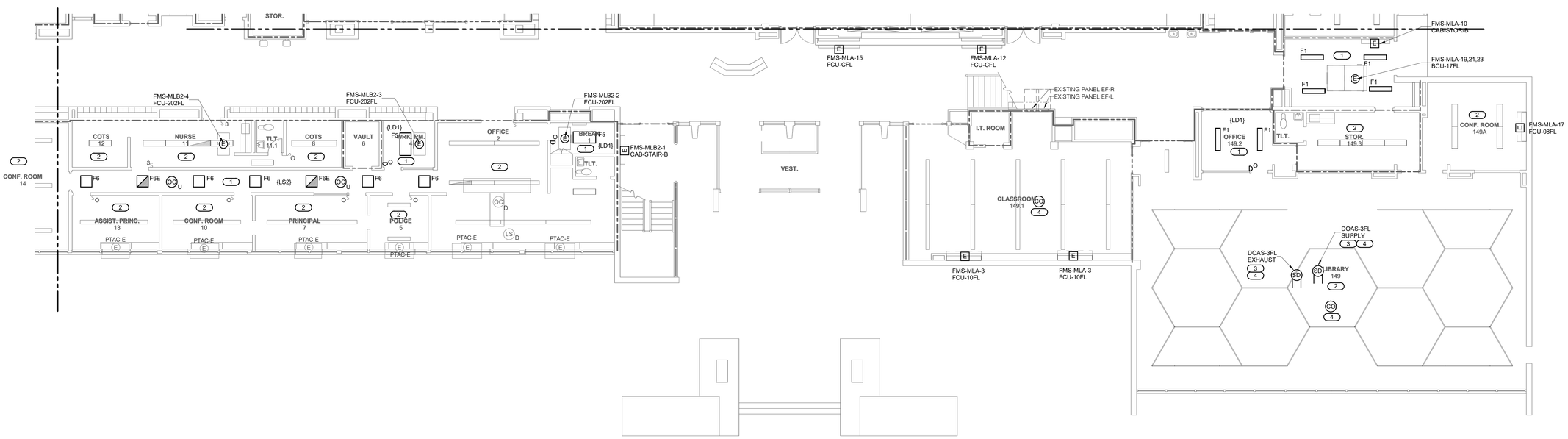
1. UTILIZE LIGHTING CIRCUIT SALVAGED FROM DEMOLITION TO FEED NEW FIXTURES. MATCH CONDUIT AND WIRE SIZE.
2. REINSTALL FIXTURES AND CEILING MOUNTED DEVICES SALVAGED FROM DEMOLITION ON NEW CEILING. UTILIZE EXISTING LIGHTING CIRCUIT TO REFEED SALVAGED FIXTURES.
3. INSTALL SAMPLING TUBES PER MANUFACTURER'S 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.



NORTH

1 FIRST FLOOR - ELECTRICAL - AREA C

1/8" = 1'-0"



NORTH

2 FIRST FLOOR - ELECTRICAL - AREA B

1/8" = 1'-0"

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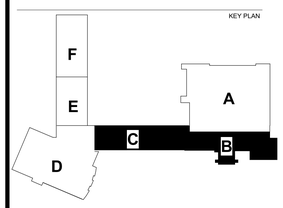
KEY PLAN



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Approved	JERVET

SHEET TITLE

FIRST FLOOR - ELECTRICAL - AREA B & C

SCALE

Scale: As indicated

SHEET NUMBER

E202B

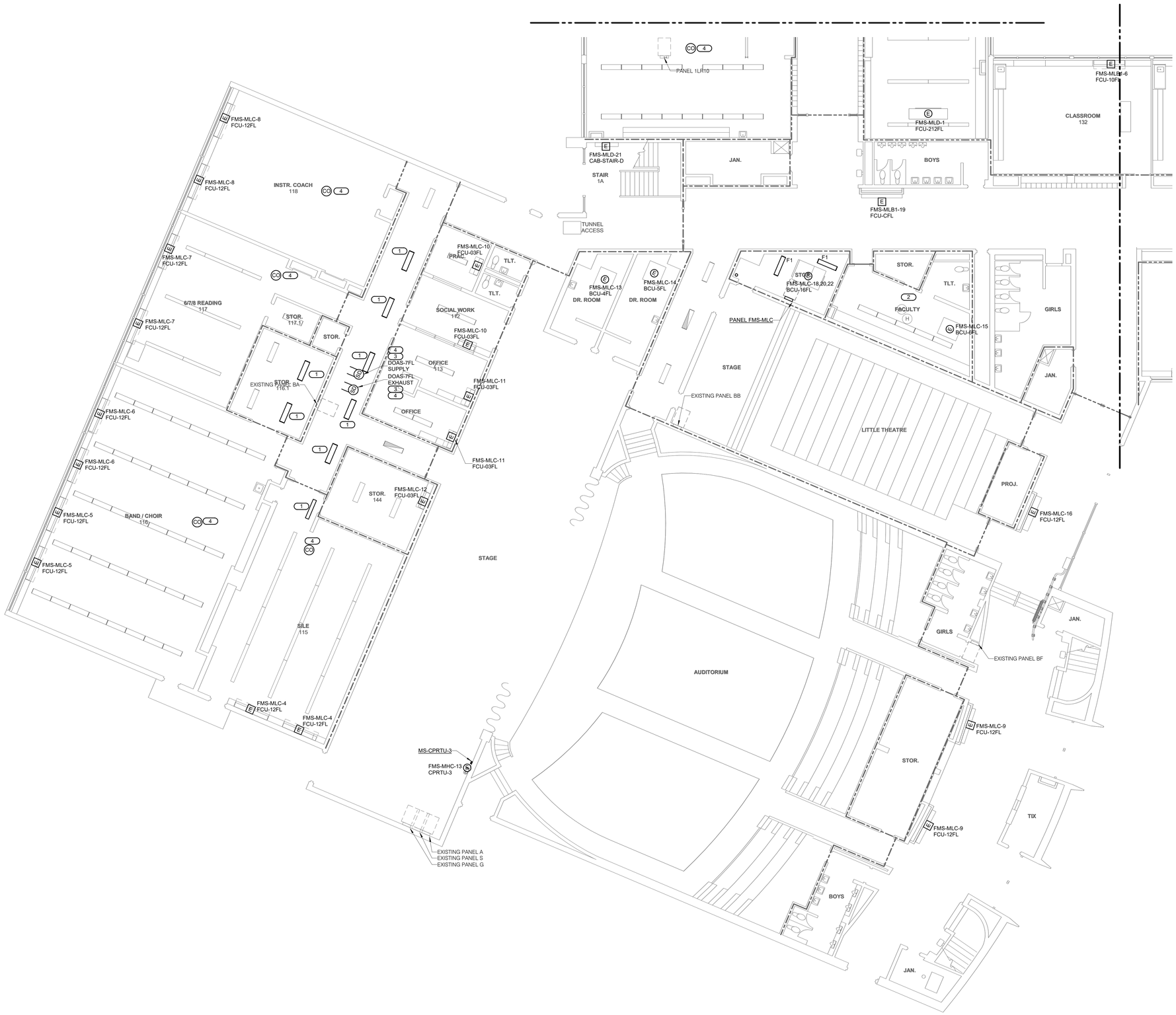
21002885.03 1/28/2022 11:40:36 AM ESSER HVAC Improvements - Flinn Middle School

SHEET NOTES:

1. STARTERS AND DISCONNECTS FURNISHED WITH EQUIPMENT UNLESS NOTED OTHERWISE.
2. REFER TO SHEET E201B FOR LOCATION OF PANEL 'FMS-MLB'.
3. REFER TO SHEET 203D FOR LOCATION OF PANEL 'FMS-MLC'.

KEYNOTES: (#)

1. REINSTALL FIXTURE SALVAGED FROM DEMOLITION. UTILIZE LIGHTING CIRCUIT SALVAGED FROM DEMOLITION TO FEED FIXTURE. MATCH CONDUIT AND WIRE SIZE.
2. REINSTALL FIXTURES AND DEVICES SALVAGED FROM DEMOLITION ON NEW CEILING. UTILIZE EXISTING LIGHTING CIRCUIT TO REFEED SALVAGED FIXTURES.
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.



NORTH

1 FIRST FLOOR - ELECTRICAL - AREA D

1/8" = 1'-0"

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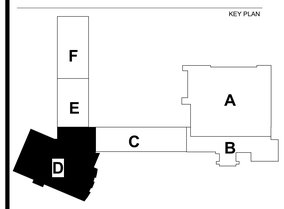

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Approved	JERVET

SHEET TITLE

FIRST FLOOR - ELECTRICAL - AREA D

SCALE

Scale: As indicated

SHEET NUMBER

E202D

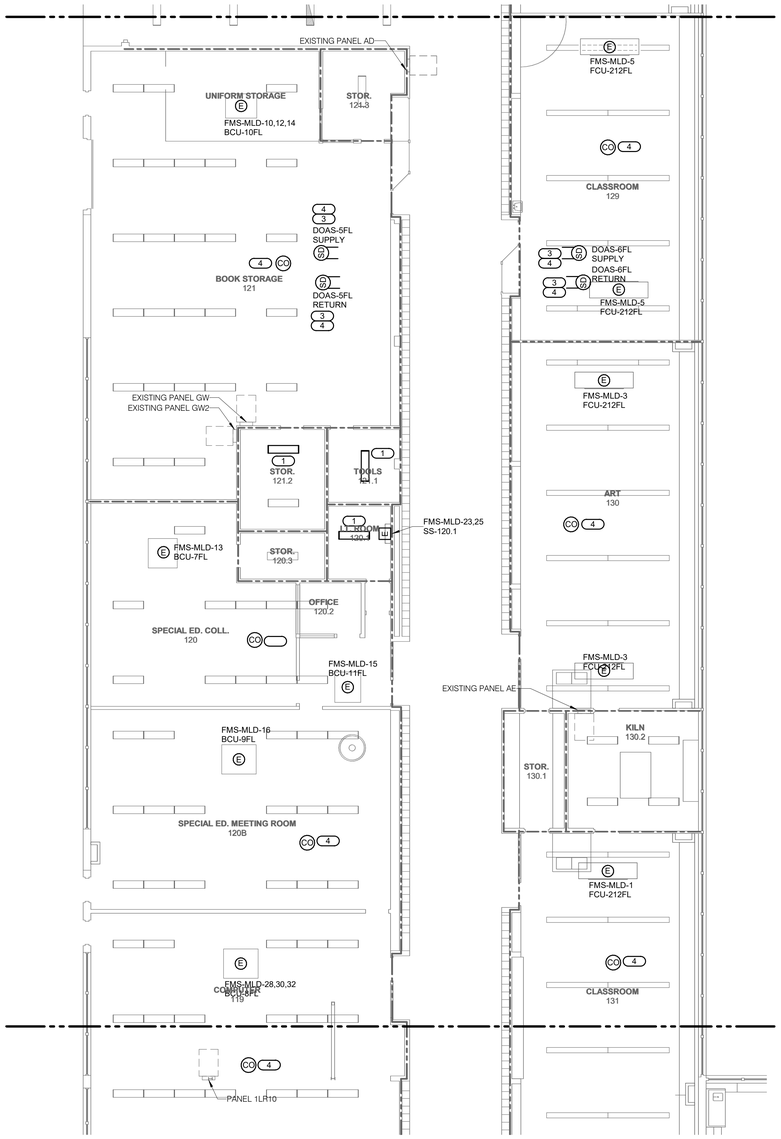
21002885.03 1/28/2022 11:40:39 AM ESSER HVAC Improvements - Flinn Middle School

SHEET NOTES:

1. STARTERS AND DISCONNECTS FURNISHED WITH EQUIPMENT UNLESS NOTED OTHERWISE.

KEYNOTES: (#)

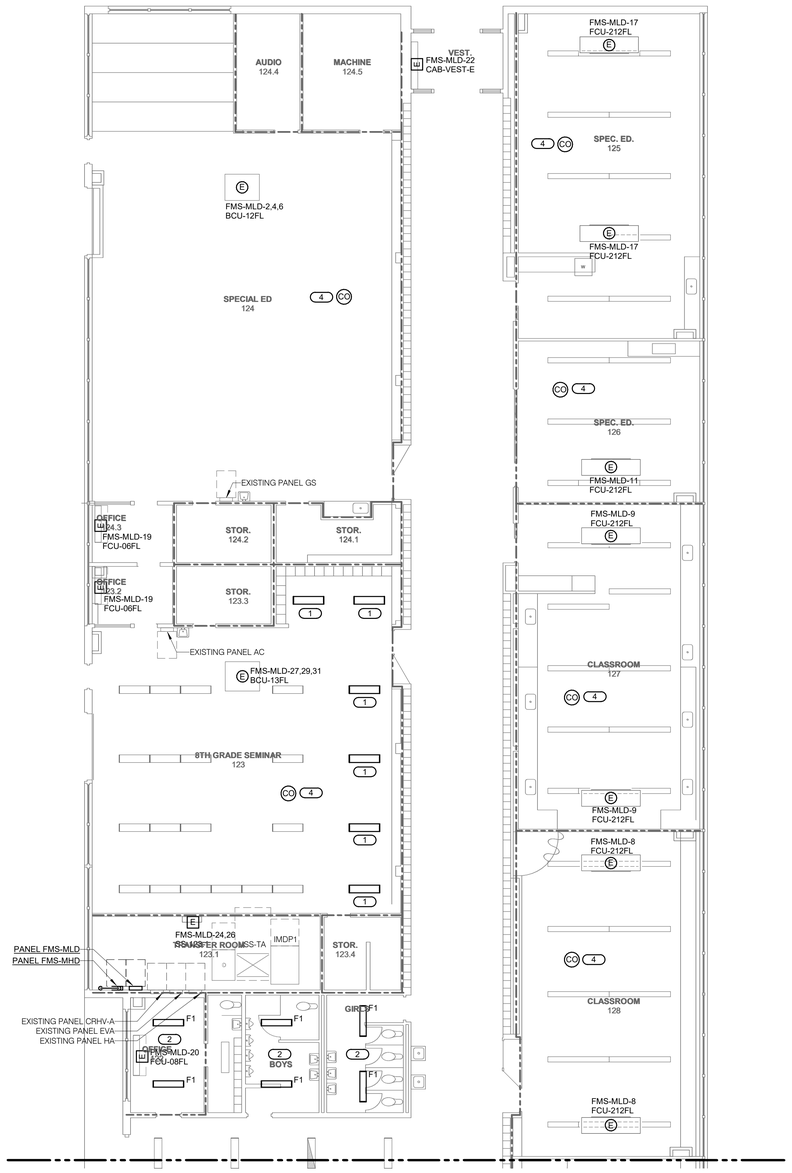
1. REINSTALL FIXTURE SALVAGED FROM DEMOLITION. UTILIZE LIGHTING CIRCUIT SALVAGED FROM DEMOLITION TO FEED FIXTURE. MATCH CONDUIT AND WIRE SIZE.
2. UTILIZE LIGHTING CIRCUIT SALVAGED FROM DEMOLITION TO FEED NEW FIXTURES. MATCH CONDUIT AND WIRE SIZE.
3. INSTALL SAMPLING TUBES PER MANUFACTURER'S INSTRUCTIONS IN STRAIGHT RUN OF DUCT. COORDINATE NSTALLATION 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.



NORTH

1 FIRST FLOOR - ELECTRICAL - AREA E

1/8" = 1'-0"



NORTH

2 FIRST FLOOR - ELECTRICAL - AREA F

1/8" = 1'-0"

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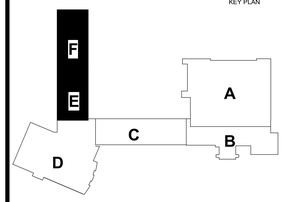
KEY PLAN



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REVISIONS

No.	Date	Revision / Issue

SHEET INFORMATION

Issue	BID DOCUMENTS
Date	JANUARY 28, 2022
Job Number	21002885.03
Drawn	JERVET
Checked	BRILEA
Approved	JERVET

SHEET TITLE

FIRST FLOOR - ELECTRICAL - AREA E & F

SCALE

Scale: As indicated

SHEET NUMBER

E202E

21002885.03 1/28/2022 11:40:42 AM ESSER HVAC Improvements - Flinn Middle School

SHEET NOTES:

1. STARTERS AND DISCONNECTS FURNISHED WITH EQUIPMENT UNLESS NOTED OTHERWISE.
2. REFER TO SHEET E201B FOR LOCATION OF PANEL 'FMS-MLB'.

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.

1 **SECOND FLOOR - ELECTRICAL - AREA A**
1/8" = 1'-0"

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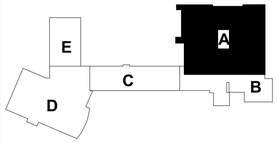
KEY PLAN



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SHEET TITLE

SECOND FLOOR - ELECTRICAL - AREA A

SCALE

Scale: **As indicated**

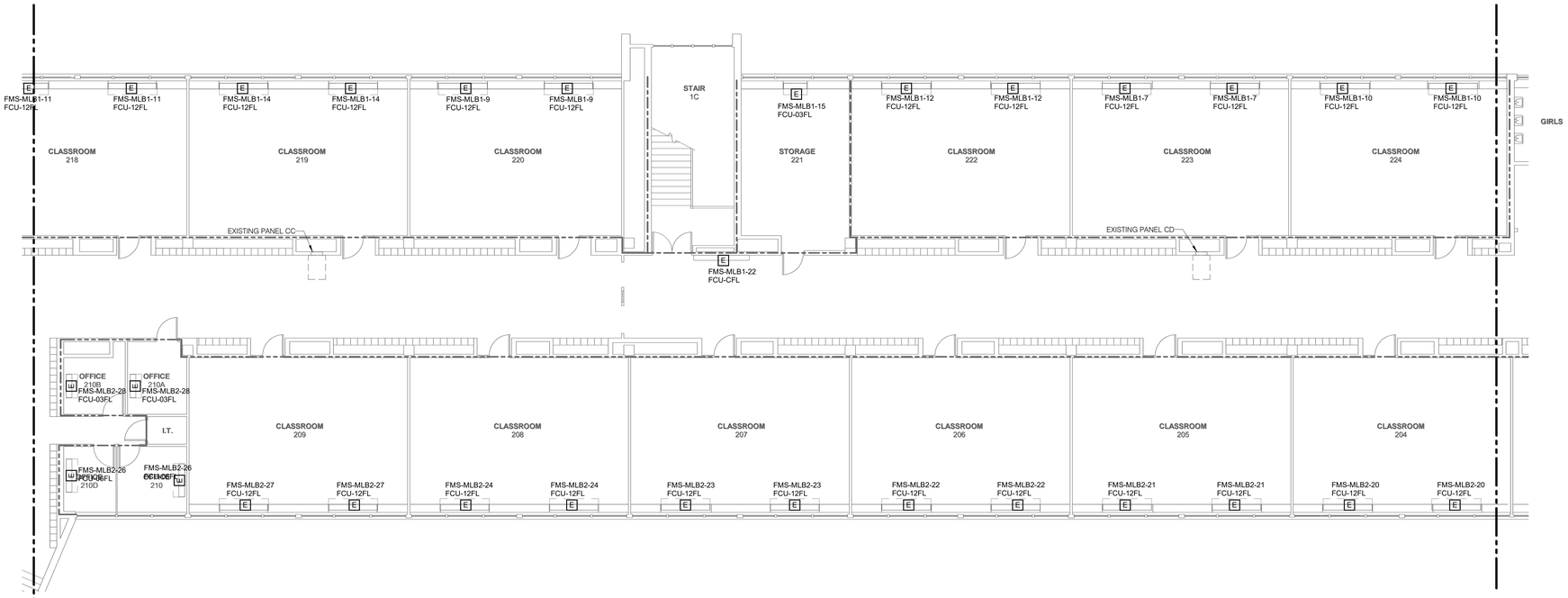
SHEET NUMBER

E203A

21002885.03 1/28/2022 11:40:44 AM ESSER HVAC Improvements - Flinn Middle School

SHEET NOTES:

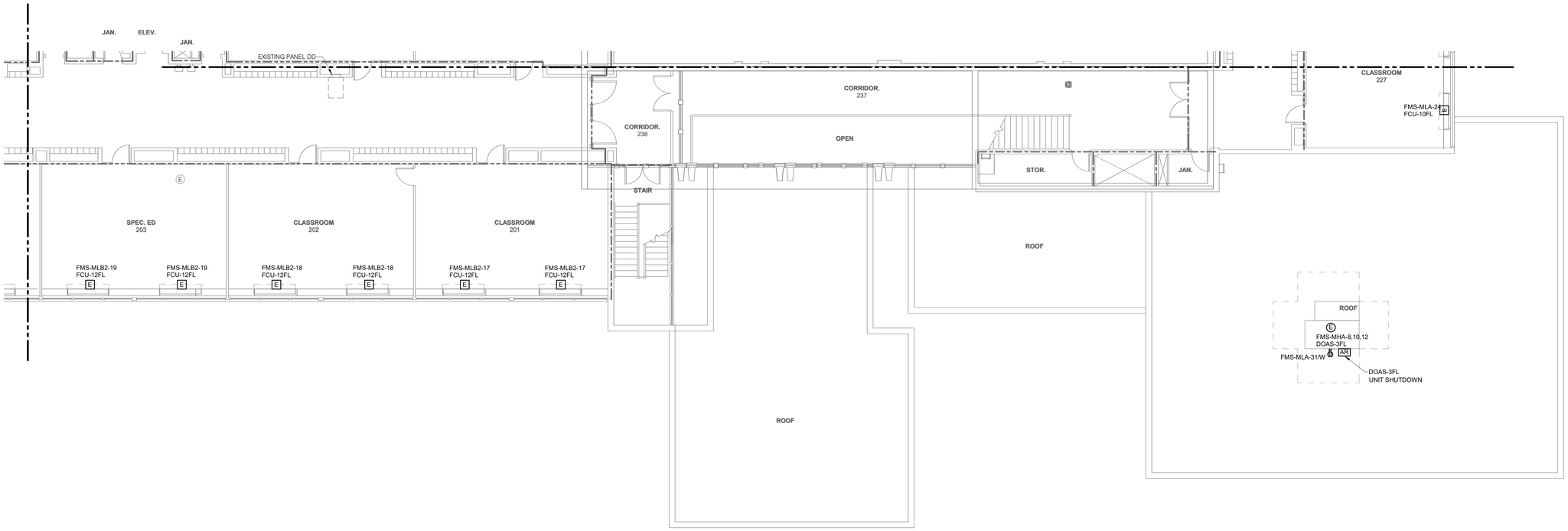
1. STARTERS AND DISCONNECTS FURNISHED WITH EQUIPMENT UNLESS NOTED OTHERWISE.
2. REFER TO SHEET E203A FOR LOCATION OF PANELS 'FMS-MHA' AND 'FMS-MLA'.
3. REFER TO SHEET E201B FOR LOCATION OF PANEL 'FMS-MLB'.
4. BRANCH CIRCUITS FEEDING FAN COIL UNITS TO FOLLOW MECHANICAL PIPING TO REACH EQUIPMENT.



NORTH

1 SECOND FLOOR - ELECTRICAL - AREA C

1/8" = 1'-0"



NORTH

2 SECOND FLOOR - ELECTRICAL - AREA B

1/8" = 1'-0"

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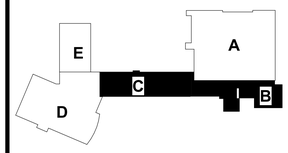
KEY PLAN



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Approved	JERVET

SHEET TITLE

SECOND FLOOR - ELECTRICAL - AREA B & C

SCALE

Scale: As indicated

SHEET NUMBER

E203B

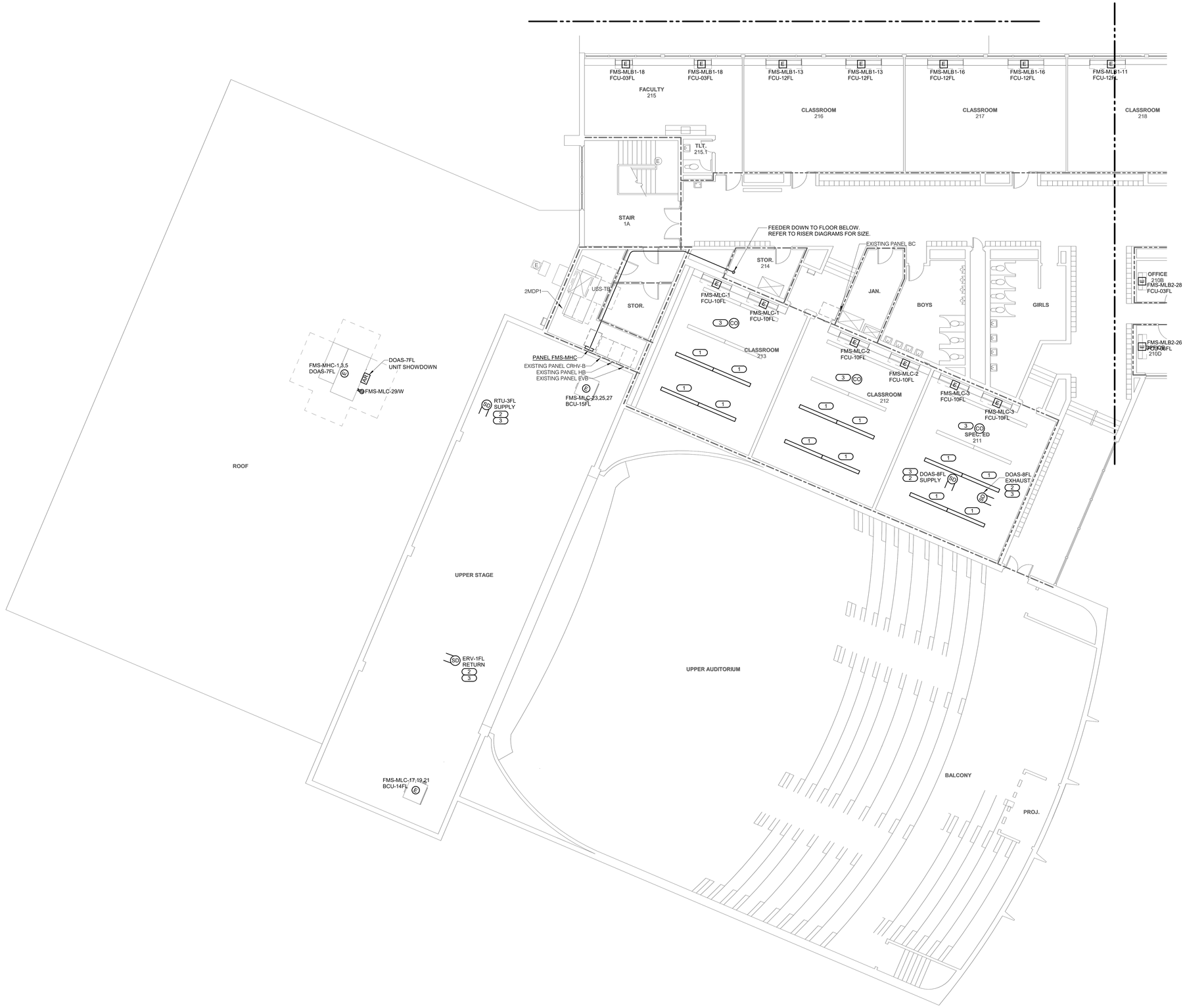
21002885.03 1/28/2022 11:40:47 AM ESSER HVAC Improvements - Flinn Middle School

SHEET NOTES:

1. STARTERS AND DISCONNECTS FURNISHED WITH EQUIPMENT UNLESS NOTED OTHERWISE.
2. REFER TO SHEET E201B FOR LOCATION OF PANEL "FMS-MLB".
3. BRANCH CIRCUITS FEEDING FAN COIL UNITS TO FOLLOW MECHANICAL PIPING TO REACH EQUIPMENT.

KEYNOTES: (#)

1. REINSTALL FIXTURE SALVAGED FROM DEMOLITION. UTILIZE LIGHTING CIRCUIT SALVAGED FROM DEMOLITION TO FEED FIXTURE. MATCH CONDUIT AND WIRE SIZE.
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. CONNECT TO THE EXISTING FIRE ALARM DETECTION CIRCUIT AVAILABLE ON THIS FLOOR AS RECOMMENDED BY THE FIRE ALARM MANUFACTURER.



1 SECOND FLOOR - ELECTRICAL - AREA D

1/8" = 1'-0"

NORTH

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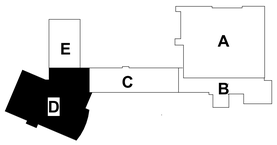
KEY PLAN



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Approved	JERVET

SHEET TITLE

SECOND FLOOR - ELECTRICAL - AREA D

SCALE

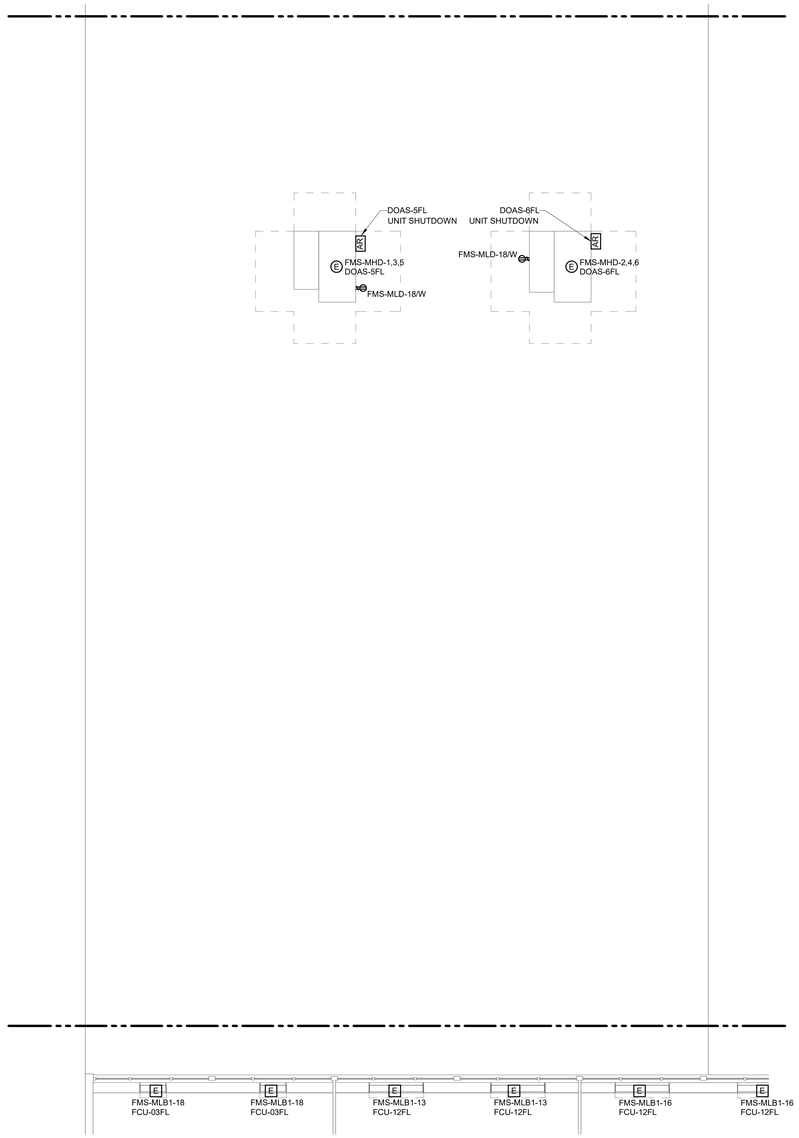
Scale: As indicated

SHEET NUMBER

E203D

SHEET NOTES:

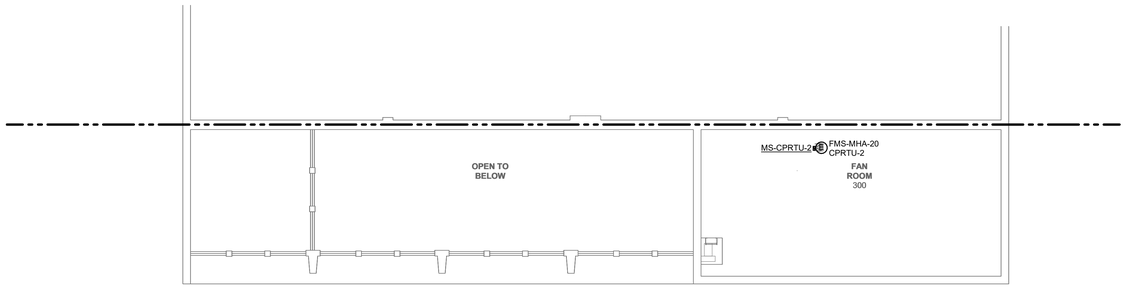
1. STARTERS AND DISCONNECTS FURNISHED WITH EQUIPMENT UNLESS NOTED OTHERWISE.
2. REFER TO SHEET E201B FOR LOCATION OF PANEL 'FMS-MLB'.
3. BRANCH CIRCUITS FEEDING FAN COIL UNITS TO FOLLOW MECHANICAL PIPING TO REACH EQUIPMENT.



NORTH

1 SECOND FLOOR - ELECTRICAL - AREA E

1/8" = 1'-0"



NORTH

2 SECOND FLOOR FAN ROOM - ELECTRICAL

1/8" = 1'-0"

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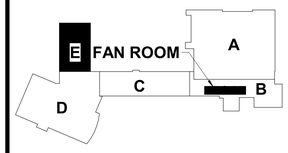
KEY PLAN



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Job Number	**21002885.03**
Drawn	**JERVET**
Checked	**BRILEA**
Approved	**JERVET**

SHEET TITLE

SECOND FLOOR - ELECTRICAL - AREA E & G

SCALE

Scale: **As indicated**

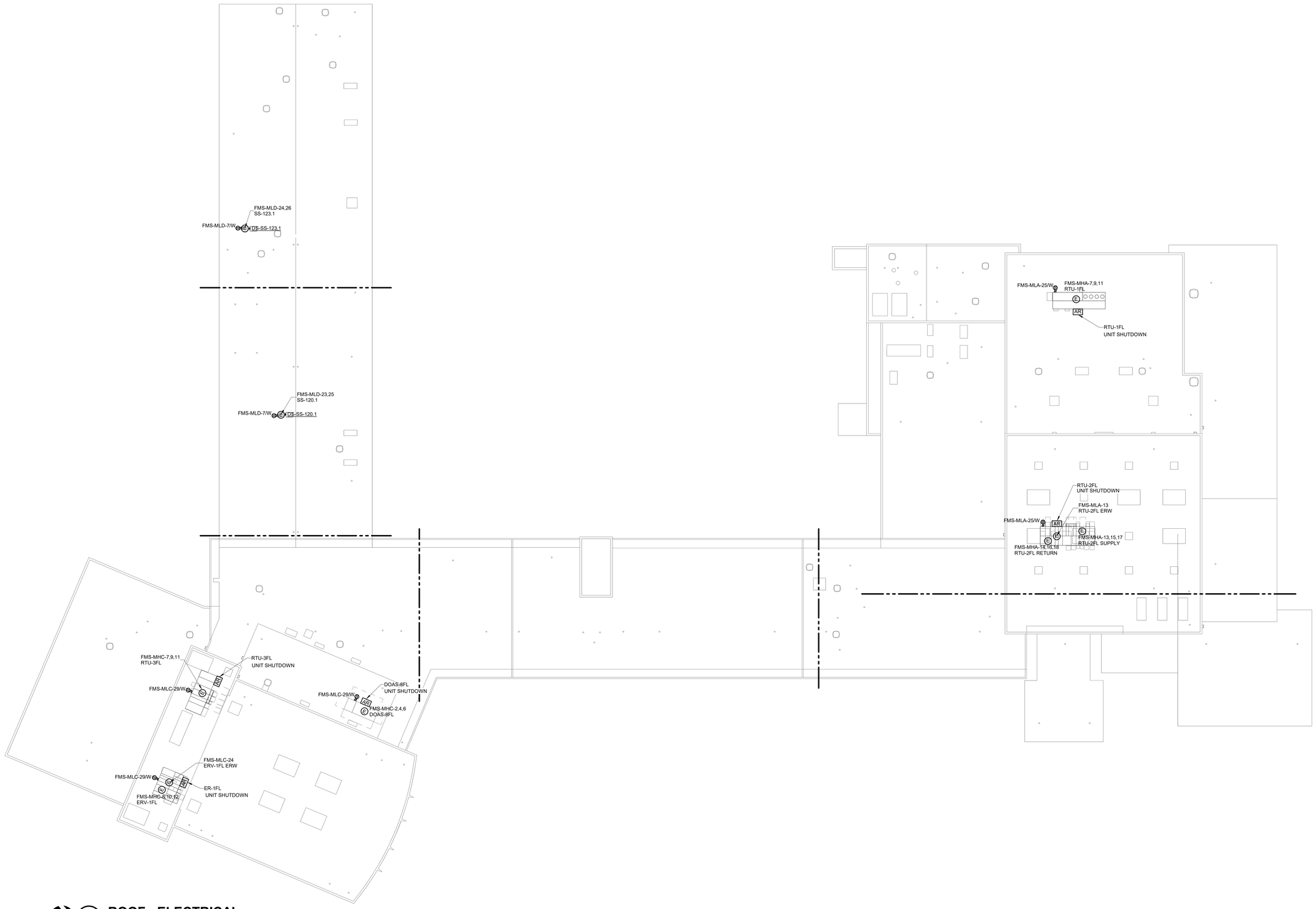
SHEET NUMBER

E203E

21002885.03 1/28/2022 11:40:51 AM ESSER HVAC Improvements - Flinn Middle School

SHEET NOTES:

1. STARTERS AND DISCONNECTS FURNISHED WITH EQUIPMENT UNLESS NOTED OTHERWISE.
2. REFER TO E203A FOR LOCATION OF PANELS 'FMS-MHA' AND 'FMS-MLA'.
3. REFER TO E203D FOR LOCATION OF PANEL 'FMS-MHC'.
4. REFER TO E202D FOR LOCATION OF PANEL 'FMS-MLC'.
5. REFER TO E202E FOR LOCATION OF PANEL 'FMS-MLD'.



1 ROOF - ELECTRICAL

1" = 20'-0"

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Issue	**BID DOCUMENTS**
Date	**JANUARY 28, 2022**
Job Number	**21002885.03**
Drawn	**JERVET**
Checked	**BRILEA**
Approved	**JERVET**

SHEET TITLE

ROOF - ELECTRICAL

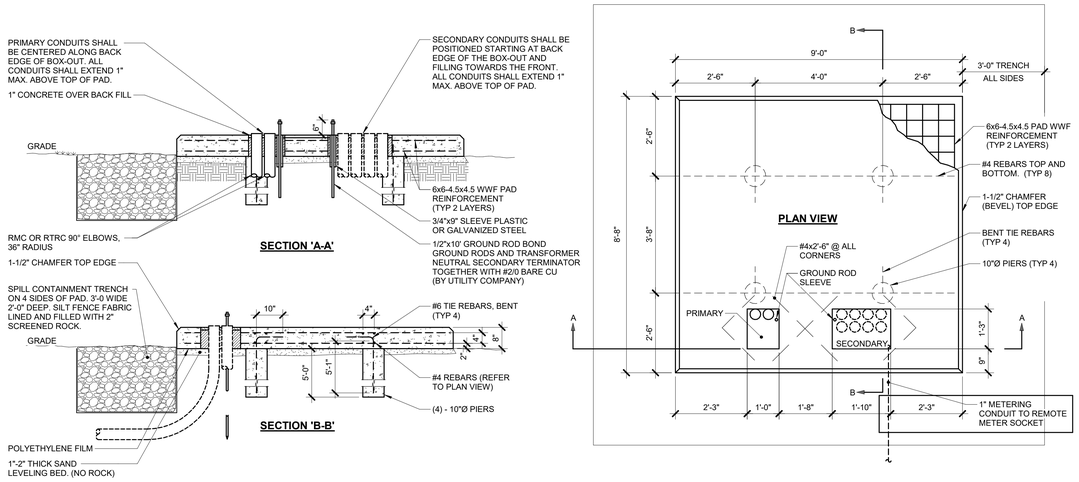
SCALE

Scale: **1" = 20'-0"**

SHEET NUMBER

E204

21002885.03 1/28/2022 11:40:53 AM ESSER HVAC Improvements - Flinn Middle School

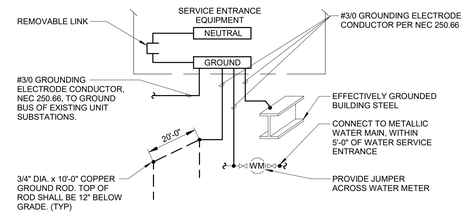


NOTES:

1. CONCRETE: fc ≥ 3500 PSI AT 28 DAYS.
2. REINFORCING STEEL: ASTM A 615-60.
3. 6x6-4.5x4.5 WELDED WIRE FABRIC (WWF): ASTM A 185.
4. SOIL: ≥ 95 PERCENT PROCTOR DENSITY OR 55 PSI PBV.
5. GENERAL CONTRACTOR TO PROVIDE TRANSFORMER PAD AS SHOWN. E.C. TO COORDINATE CONDUIT ROUGH-IN WITH G.C.
6. VERIFY FINAL REQUIREMENTS AND DIMENSIONS WITH UTILITY COMPANY.

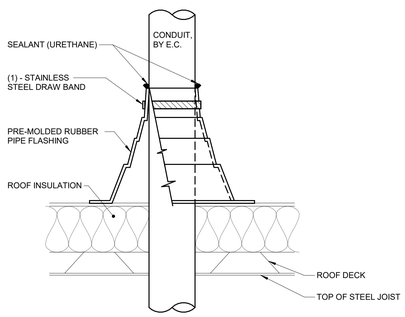
1 TRANSFORMER PAD DETAIL

NO SCALE



2 SERVICE ENTRANCE GROUNDING ELECTRODE SYSTEM DETAIL

NO SCALE

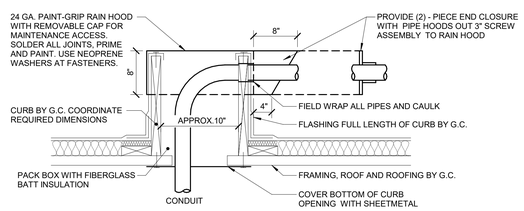


3 CONDUIT ROOF PENETRATION

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.

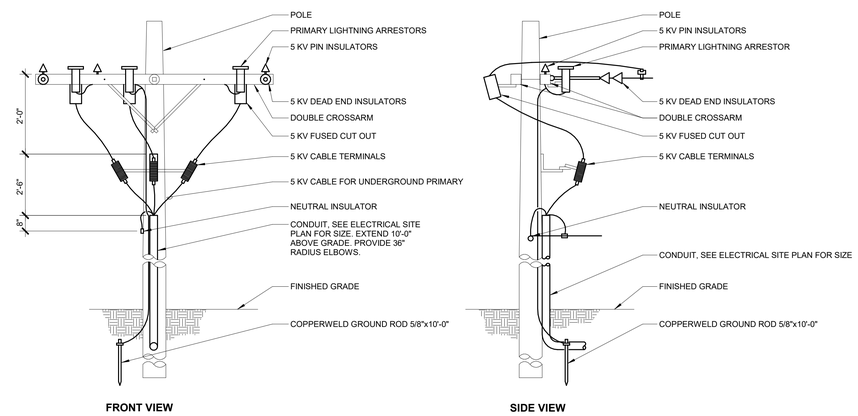


4 ROOF PENETRATION WITH HOOD

NO SCALE

NOTES:

1. VERIFY FINAL REQUIREMENTS WITH GENERAL CONTRACTOR (G.C.) PRIOR TO INSTALLATION.



5 UNDERGROUND PRIMARY RISER POLE DETAIL

NO SCALE

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SHEET TITLE

ELECTRICAL DETAILS

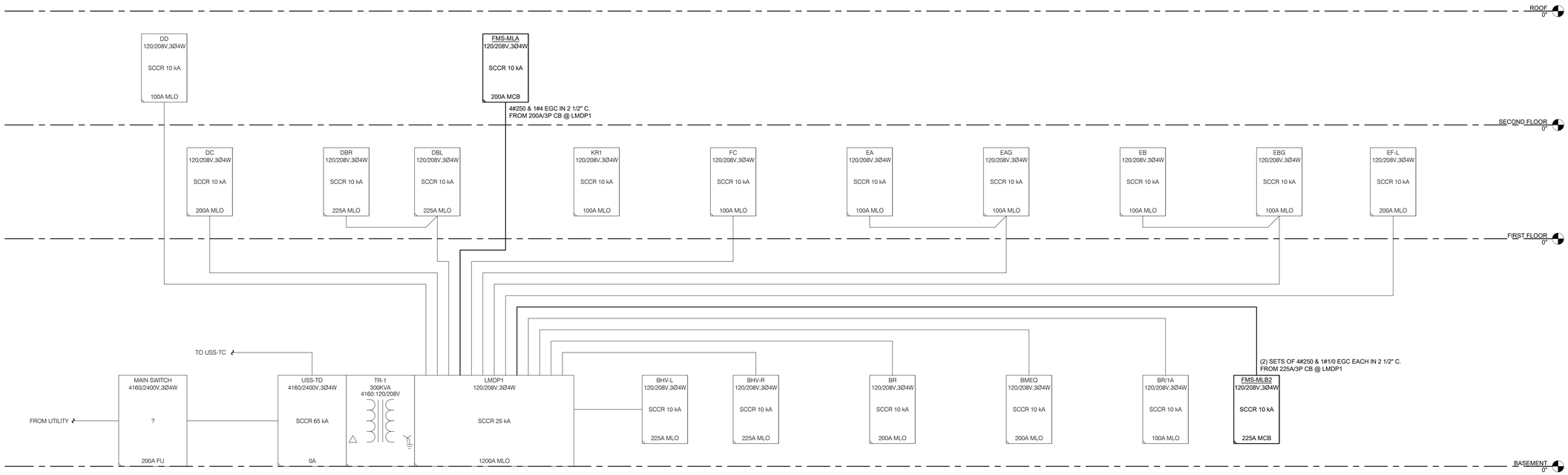
SCALE

Scale: 12" = 1'-0"

SHEET NUMBER

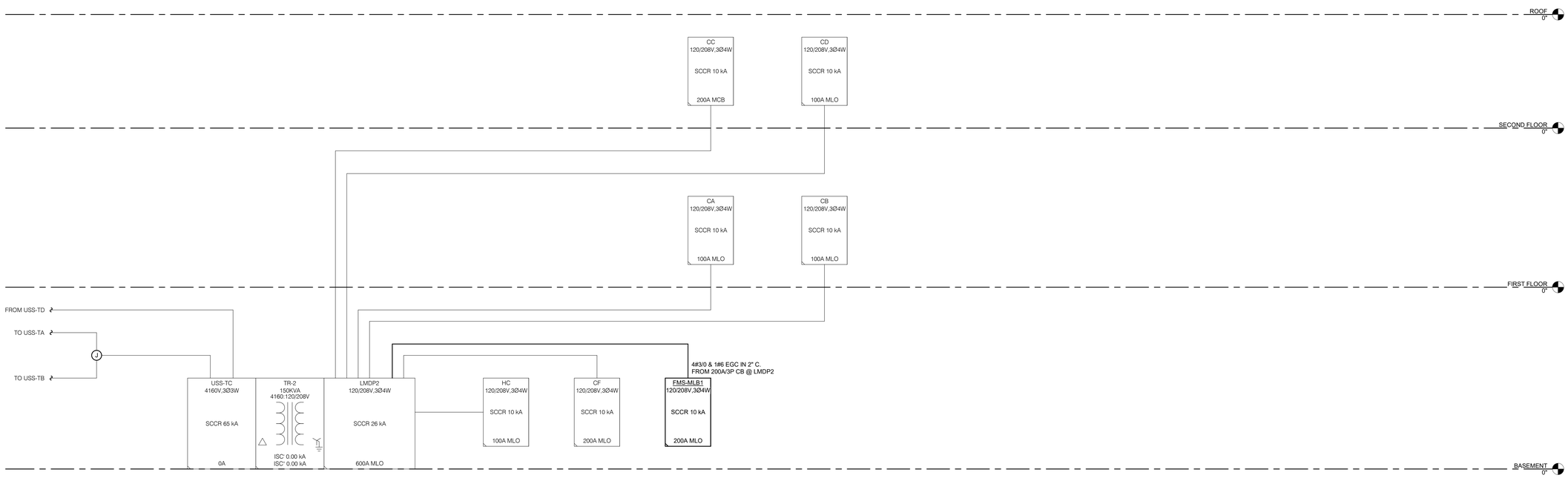
E400

21002885.03 1/28/2022 11:40:54 AM ESSER HVAC Improvements - Flinn Middle School



1 RISER DIAGRAM - USS-TD

NO SCALE



2 RISER DIAGRAM - USS-TC

NO SCALE

21002885.03 1/28/2022 11:40:55 AM ESSER HVAC Improvements - Flinn Middle School

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Approved	JERVET

SHEET TITLE

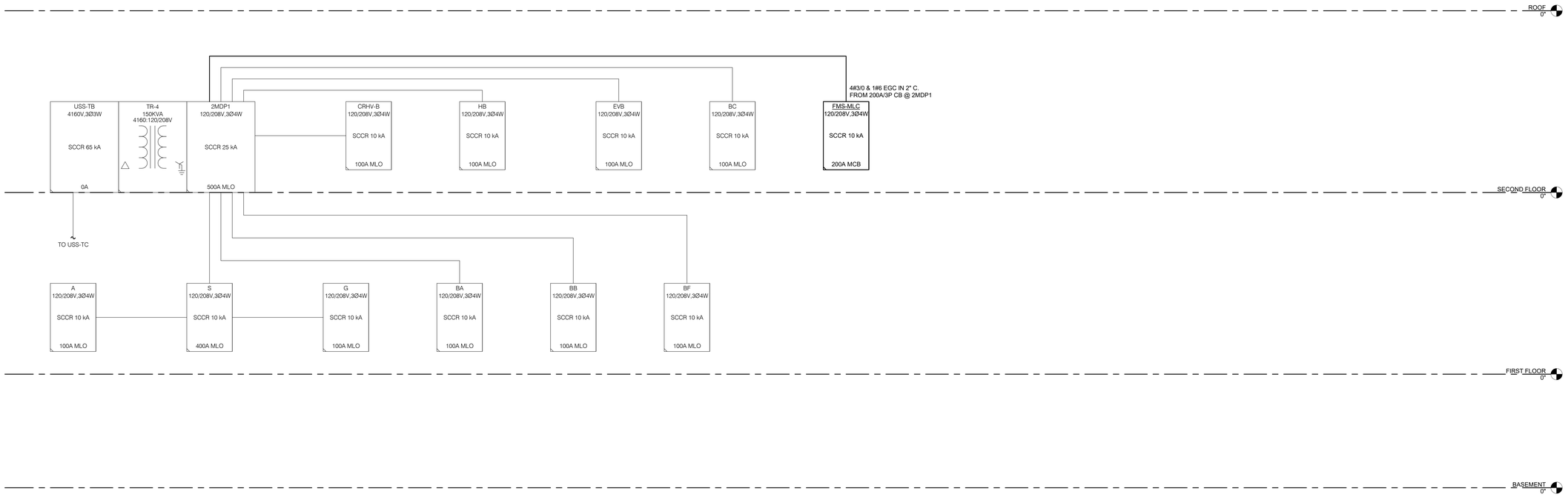
ELECTRICAL RISER DIAGRAM

SCALE

Scale: 12" = 1'-0"

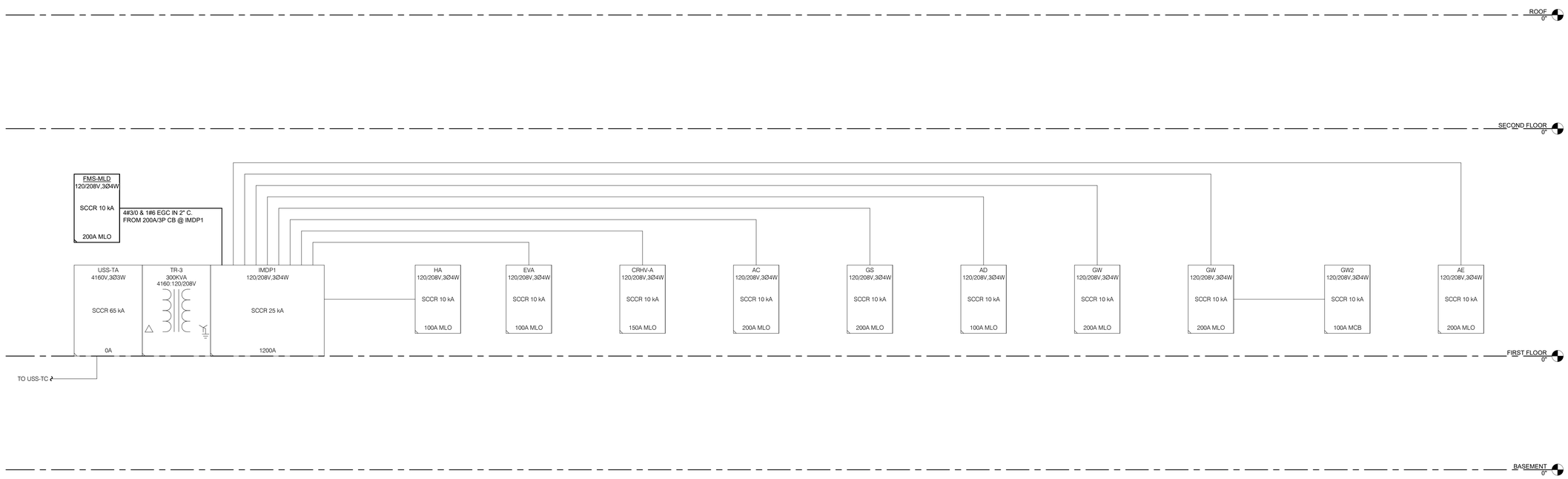
SHEET NUMBER

E500



1 RISER DIAGRAM - USS-TB

NO SCALE



2 RISER DIAGRAM - USS-TA

NO SCALE

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Approved	JERVET

SHEET TITLE

ELECTRICAL RISER DIAGRAM

SCALE

Scale: 12" = 1'-0"

SHEET NUMBER

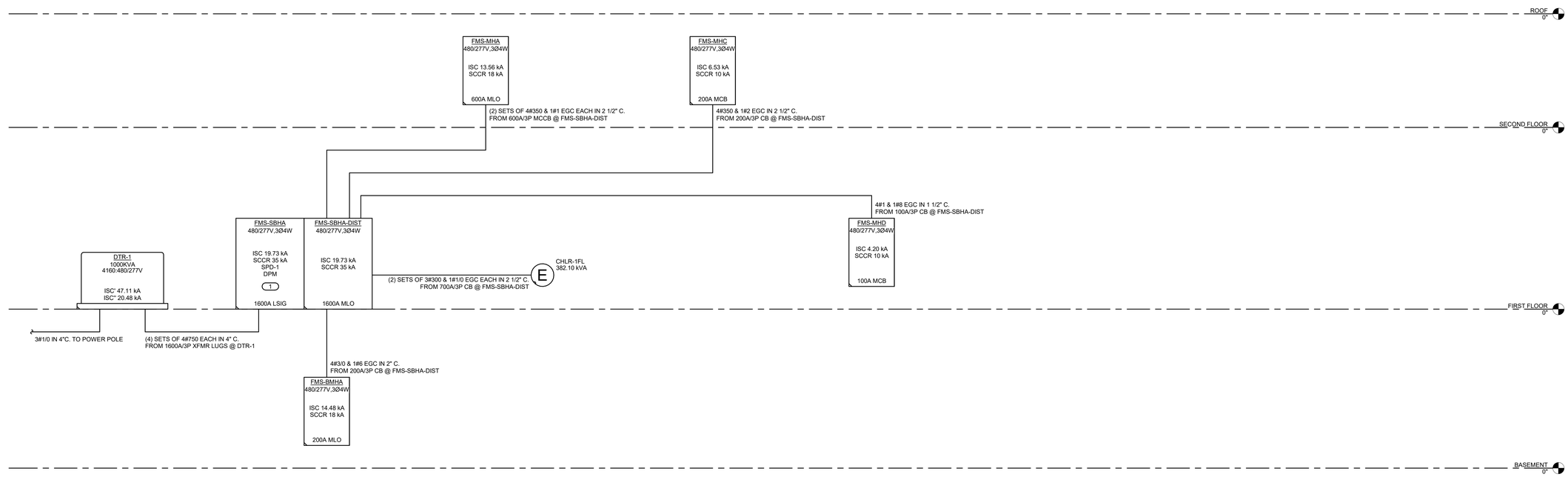
E501

KEYNOTES: (#)

1. REFER TO 2/E400 FOR SERVICE ENTRANCE GROUNDING DETAIL.

ELECTRICAL - RISER DIAGRAM NOTES:

1. THE RISER DIAGRAM IS INTENDED TO CONVEY THE COMPONENTS OF THE ELECTRICAL DISTRIBUTION SYSTEM. REFER TO ELECTRICAL DRAWINGS, DETAILS, DISTRIBUTION / PANEL / EQUIPMENT / EQUIPMENT CONNECTION SCHEDULES, AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.
2. SHORT CIRCUIT CURRENT RATINGS (SCCR) FOR EQUIPMENT ARE MINIMUM REQUIREMENTS FOR BUSS BRACING AND DEVICE RATING. ALL EQUIPMENT SHALL BE FULLY RATED UNLESS SPECIFICALLY NOTED AS SERIES RATED.
3. TRANSFER SWITCHES (SCCR) RATINGS ARE INTENDED AS WITHSTAND CURRENT RATINGS (WCR).
4. THE BASIS OF DESIGN: THE CONTRACTOR SHALL BE RESPONSIBLE FOR DERATING AND SIZING CONDUCTORS AND CONDUITS TO EQUAL OR EXCEED AMPACITY OF THE BASIS OF DESIGN CIRCUITS WHEN ALTERNATIVE METHODS OR MATERIALS OTHER THAN THE BASIS OF DESIGN ARE APPLIED.
   a. RACEWAY: EMT UNLESS OTHERWISE NOTED
   b. FEEDER CHARACTERISTICS: ALL CURRENT CARRYING CONDUCTORS SHALL BE COPPER UNLESS NOTED OTHERWISE. REFER TO SPECIFCIATION SECTION 25 05 13 WIRE AND CABLE FOR ADDITIONAL INFORMATION
   c. GROUNDING AND BONDING CONDUCTORS SHALL BE COPPER.
   d. CONDUCTORS (MOTORS): COPPER
   e. [AL] INDICATES ALUMINUM CONDUCTOR
   f. [BLANK] OR [CU] INDICATES COPPER CONDUCTOR
   g. [CI] INDICATES CIRCUIT INTEGRITY CIRCUIT. FEEDER ROUTED OUTSIDE BUILDING OR 2 HOUR FIRE RATED.
5. PROVIDE GROUNDING ELECTRODE AND BONDING SYSTEM PER CODE REQUIREMENTS. PROVIDE THE FOLLOWING MINIMUM CONNECTIONS AND COMPONENTS. REFER TO SPECIFICATION SECTION 26 05 26 GROUNDING AND BONDING AND DETAILS WHEN APPLICABLE:
   a. ELECTRICAL GROUND FIELD
   b. CONCRETE ENCASED UFER GROUND
   c. METALLIC WATER MAIN
   d. BUILDING STEEL, EFFECTIVELY GROUNDED
   e. INTERSYSTEM BONDING TERMINAL [IBT]
   f. GROUND RING ENCIRCLING STRUCTURE
6. DRY TYPE TRANSFORMER AND SEPARATELY DERIVED SYSTEMS. PROVIDE GROUNDING ELECTRODE CONDUCTOR FOR SEPARATELY DERIVED SYSTEM. ROUTE TO STRUCTURAL BUILDING STEEL WHEN AVAILABLE. OTHERWISE ROUTE TO MAIN GROUNDING ELECTRODE SYSTEM.
7. PROVIDE O.Z. GEDNEY OR EQUAL GROUND BUSHING FOR ALL SERVICE AND FEEDER RACEWAYS BONDED TO GROUND BUS WITH CONDUCTOR SIZED TO MAXIMUM FEEDER GROUND CAPACITY.
8. CONDUCTORS AND GROUND SIZES ON THE LINE AND LOAD SIDES OF ALL DISCONNECT SWITCHES SHALL BE IDENTICAL UNLESS NOTED OTHERWISE.
9. REFER TO COVER SHEET FOR ADDITIONAL EQUIPMENT TAG INFORMATION (SPD-#, M-#, ETC).
10. REFER TO GROUNDING ELECTRODE SYSTEM AND BONDING DETAILS
11. CIRCUIT BREAKER CHARACTERISTICS AND ACCESSORIES:
    a. [CB] INDICATES CIRCUIT BREAKER
    b. [FS] INDICATES FUSED SWITCH
    c. [NFS] INDICATES NON-FUSED SWITCH
    d. [MLO] INDICATES MAIN LUG ONLY
    e. [MCB] INDICATES MAIN CIRCUIT BREAKER
    f. [MCCB] INDICATES MOLDED CASE CIRCUIT BREAKER
    g. [LSIG] INDICATES FEATURES PROVIDED WITH SOLID STATE CIRCUIT BREAKER [LONG TIME (W/DELAY), SHORT TIME (W/DELAY), INSTANTANEOUS, GROUND FAULT]
    h. [LSIA] INDICATES FEATURES PROVIDED WITH SOLID STATE CIRCUIT BREAKER [LONG TIME (W/DELAY), SHORT TIME (W/DELAY), INSTANTANEOUS, GROUND FAULT ALARM (NO GROUND FAULT TRIP)]
    i. [GF] INDICATES GROUND FAULT RELAY
    j. [AER] INDICATES ARC ENERGY REDUCTION SYSTEM
    k. [100% RATED] INDICATES INSULATED CASE BREAKER RATED FOR FULL CONTINUOUS CAPACITY OF CIRCUIT BREAKER NAMEPLATE
    l. [DRAW] INDICATES DRAWOUT DEVICES
    m. [LOCK] INDICATES PADLOCK HASP
    n. [RED] INDICATES RED HANDLE
    o. [SHUNT] INDICATES SHUNT TRIP BREAKER
    p. [KIRK] INDICATES KIRK KEY
12. BRANCH PANEL KEY:
    a. *A = ARC FAULT CIRCUIT INTERRUPT
    b. *G = GROUND FAULT CIRCUIT INTERRUPT
    c. *I = ISOLATED GROUND
    d. *M = BRANCH CIRCUIT MONITOR
    e. *P = PADLOCK HASP
    f. *R = RED HANDLE
    g. *S = SHUNT TRIP
    h. *NB = NEW BREAKER
    i. *RB = REPLACE EXISTING BREAKER WITH NEW BREAKER
    j. *EB = EXISTING BREAKER
13. ADDITIONAL ABBREVIATIONS:
    a. EGC – EQUIPMENT GROUNDING CONDUCTOR
    b. GEC – GROUNDING ELECTRODE CONDUCTOR
    c. SSBJ – SUPPLY SIDE BONDING JUMPER



1 **RISER DIAGRAM**
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	**21002885.03**
Drawn	**JERVET**
Checked	**BRILEA**
Approved	**JERVET**

SHEET TITLE
ELECTRICAL RISER DIAGRAM

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

SHEET NUMBER
E502

ELECTRICAL CONNECTION SCHEDULE

	ITEM	LOCATION	VOLTAGE	LOAD CLASS.	MOTORS QTY	@	HP	QTY	@	HP	QTY	@	HP	ELECTRIC HEATING ELEMENT (KW)	APPARENT LOAD	FLA	MCA	MOCP	OCPD	REQ EMER	CIRCUIT NUMBER	WIRE AND RACEWAY	ISC	SCCR	DISCONNECT BY	DISCONNECT TYPE	CONTROLLER / STARTER BY	CONTROLLER / STARTER TYPE	COMMENTS
BHV-R																													
	CAB-VEST-A		120 V, 1Ø	HVAC Heating Only	0	-	0	0	-	0	0	-	0	0	0.50 kVA	4.2 A	5.3 A	15 A	15 A	No	42	2#12 & 1#12 EGC IN 3/4" C.	0 A	0 A	MFR	NF	MFR		
	FCU-06FL		120 V, 1Ø	HVAC	1	@	0.25	0	-	0	0	-	0	0	0.50 kVA	4.2 A	5.2 A	15 A	20 A	No	38	2#10 & 1#10 EGC IN 3/4" C.	0 A	0 A	MFR		MFR		
	FCU-12FL		120 V, 1Ø	HVAC	1	@	0.25	0	-	0	0	-	0	0	0.89 kVA	7.4 A	9.2 A	15 A	20 A	No	40	2#8 & 1#8 EGC IN 3/4" C.	0 A	0 A	MFR		MFR		
	FCU-12FL		120 V, 1Ø	HVAC	1	@	0.25	0	-	0	0	-	0	0	0.89 kVA	7.4 A	9.2 A	15 A	20 A	No	40	2#8 & 1#8 EGC IN 3/4" C.	0 A	0 A	MFR		MFR		
	FCU-12FL		120 V, 1Ø	HVAC	1	@	0.25	0	-	0	0	-	0	0	0.89 kVA	7.4 A	9.2 A	15 A	20 A	No	41	2#6 & 1#6 EGC IN 3/4" C.	0 A	0 A	MFR		MFR		
	FCU-12FL		120 V, 1Ø	HVAC	1	@	0.25	0	-	0	0	-	0	0	0.89 kVA	7.4 A	9.2 A	15 A	20 A	No	39	2#8 & 1#8 EGC IN 3/4" C.	0 A	0 A	MFR		MFR		
	FCU-12FL		120 V, 1Ø	HVAC	1	@	0.25	0	-	0	0	-	0	0	0.89 kVA	7.4 A	9.2 A	15 A	20 A	No	39	2#8 & 1#8 EGC IN 3/4" C.	0 A	0 A	MFR		MFR		
	FCU-12FL		120 V, 1Ø	HVAC	1	@	0.25	0	-	0	0	-	0	0	0.89 kVA	7.4 A	9.2 A	15 A	20 A	No	41	2#6 & 1#6 EGC IN 3/4" C.	0 A	0 A	MFR		MFR		
	FCU-12FL		120 V, 1Ø	HVAC	1	@	0.25	0	-	0	0	-	0	0	0.89 kVA	7.4 A	9.2 A	15 A	20 A	No	38	2#10 & 1#10 EGC IN 3/4" C.	0 A	0 A	MFR		MFR		
	FCU-212FL		120 V, 1Ø	HVAC	1	@	0.25	0	-	0	0	-	0	0	1.02 kVA	0 A	8.5 A	15 A	15 A	No	37	2#12 & 1#12 EGC IN 3/4" C.	0 A	0 A	MFR		MFR		
BR																													
	UH-144.3		120 V, 1Ø	HVAC Heating Only	0	-	0	0	-	0	0	-	0	0	0.00 kVA	0 A	0 A	0 A	20 A	No	40		0 A	0 A	MANF.	F	MANF.		
DBL																													
	FCU-212FL		120 V, 1Ø	HVAC	1	@	0.25	0	-	0	0	-	0	0	1.02 kVA	0 A	8.5 A	15 A	15 A	No	1	2#12 & 1#12 EGC IN 3/4" C.	0 A	0 A	MFR		MFR		
FMS-MLA																													
	BCU-1FL		120 V, 1Ø	HVAC	1	@	1	0	-	0	0	-	0	0	1.92 kVA	16 A	20 A	30 A	30 A	No	8	2#12 & 1#10 EGC IN 3/4" C.	0 A	0 A	MFR		MFR		
	BCU-2FL		208 V, 3Ø	HVAC	1	@	3	0	-	0	0	-	0	0	3.96 kVA	11 A	13.8 A	20 A	20 A	No	7,9,11	3#12 & 1#12 EGC IN 3/4" C.	0 A	0 A	MFR		MFR		
	BCU-3FL		208 V, 3Ø	HVAC	1	@	5	0	-	0	0	-	0	0	6.30 kVA	17.5 A	21.9 A	30 A	30 A	No	16,18,20	3#10 & 1#10 EGC IN 3/4" C.	0 A	0 A	MFR		MFR		
	BCU-17FL		208 V, 3Ø	HVAC	1	@	3	0	-	0	0	-	0	0	3.96 kVA	11 A	13.8 A	20 A	20 A	No	19,21,23	3#12 & 1#12 EGC IN 3/4" C.	0 A	0 A	MFR		MFR		
	CAB-STAIR-A		120 V, 1Ø	HVAC Heating Only	0	-	0	0	-	0	0	-	0	0	0.55 kVA	4.6 A	5.8 A	15 A	20 A	No	14	2#12 & 1#12 EGC IN 3/4" C.	0 A	0 A	MFR	NF	MFR		
	CAB-STOR-B		120 V, 1Ø	HVAC Heating Only	0	-	0	0	-	0	0	-	0	0	0.50 kVA	4.2 A	5.3 A	15 A	20 A	No	10	2#12 & 1#12 EGC IN 3/4" C.	0 A	0 A	MFR	NF	MFR		
	CAB-VEST-A		120 V, 1Ø	HVAC Heating Only	0	-	0	0	-	0	0	-	0	0	0.50 kVA	4.2 A	5.3 A	15 A	20 A	No	22	2#12 & 1#12 EGC IN 3/4" C.	0 A	0 A	MFR	NF	MFR		
	FCU-03FL		120 V, 1Ø	HVAC	1	@	0.13	0	-	0	0	-	0	0	0.31 kVA	2.6 A	3.2 A	15 A	20 A	No	2	2#12 & 1#12 EGC IN 3/4" C.	0 A	0 A	MFR		MFR		
	FCU-03FL		120 V, 1Ø	HVAC	1	@	0.13	0	-	0	0	-	0	0	0.31 kVA	2.6 A	3.2 A	15 A	20 A	No	6	2#12 & 1#12 EGC IN 3/4" C.	0 A	0 A	MFR		MFR		
	FCU-03FL		120 V, 1Ø	HVAC	1	@	0.13	0	-	0	0	-	0	0	0.31 kVA	2.6 A	3.2 A	15 A	20 A	No	6	2#12 & 1#12 EGC IN 3/4" C.	0 A	0 A	MFR		MFR		
	FCU-08FL		120 V, 1Ø	HVAC	1	@	0.25	0	-	0	0	-	0	0	0.58 kVA	4.8 A	6 A	15 A	20 A	No	17	2#10 & 1#10 EGC IN 3/4" C.	0 A	0 A	MFR		MFR		
	FCU-10FL		120 V, 1Ø	HVAC	1	@	0.25	0	-	0	0	-	0	0	0.82 kVA	6.8 A	8.5 A	15 A	20 A	No	4	2#8 & 1#8 EGC IN 3/4" C.	0 A	0 A	MFR		MFR		
	FCU-10FL		120 V, 1Ø	HVAC	1	@	0.25	0	-	0	0	-	0	0	0.82 kVA	6.8 A	8.5 A	15 A	20 A	No	4	2#8 & 1#8 EGC IN 3/4" C.	0 A	0 A	MFR		MFR		
	FCU-10FL		120 V, 1Ø	HVAC	1	@	0.25	0	-	0	0	-	0	0	0.82 kVA	6.8 A	8.5 A	15 A	20 A	No	5	2#10 & 1#10 EGC IN 3/4" C.	0 A	0 A	MFR		MFR		
	FCU-10FL		120 V, 1Ø	HVAC	1	@	0.25	0	-	0	0	-	0	0	0.82 kVA	6.8 A	8.5 A	15 A	20 A	No	5	2#10 & 1#10 EGC IN 3/4" C.	0 A	0 A	MFR		MFR		
	FCU-10FL		120 V, 1Ø	HVAC	1	@	0.25	0	-	0	0	-	0	0	0.82 kVA	6.8 A	8.5 A	15 A	20 A	No	3	2#6 & 1#6 EGC IN 3/4" C.	0 A	0 A	MFR		MFR		
	FCU-10FL		120 V, 1Ø	HVAC	1	@	0.25	0	-	0	0	-	0	0	0.82 kVA	6.8 A	8.5 A	15 A	20 A	No	3	2#6 & 1#6 EGC IN 3/4" C.	0 A	0 A	MFR		MFR		
	FCU-CFL		120 V, 1Ø	HVAC	1	@	0.25	0	-	0	0	-	0	0	0.89 kVA	7.4 A	9.2 A	15 A	20 A	No	12	2#10 & 1#10 EGC IN 3/4" C.	0 A	0 A	MFR		MFR		
	FCU-CFL		120 V, 1Ø	HVAC	1	@	0.25	0	-	0	0	-	0	0	0.89 kVA	7.4 A	9.2 A	15 A	20 A	No	15	2#10 & 1#10 EGC IN 3/4" C.	0 A	0 A	MFR		MFR		
	RTU-2FL ERW		120 V, 1Ø	HVAC	1	@	1	0	-	0	0	-	0	0	1.92 kVA	16 A	20 A	30 A	30 A	No	13	2#6 & 1#4 EGC IN 3/4" C.	0 A	0 A	MFR	F			
FMS-MLB1																													
	FCU-03FL		120 V, 1Ø	HVAC	1	@	0.13	0	-	0	0	-	0	0	0.31 kVA	2.6 A	3.2 A	15 A	20 A	No	20	2#12 & 1#12 EGC IN 3/4" C.	0 A	0 A	MFR		MFR		
	FCU-03FL		120 V, 1Ø	HVAC	1	@	0.13	0	-	0	0	-	0	0	0.31 kVA	2.6 A	3.2 A	15 A	20 A	No	3	2#12 & 1#12 EGC IN 3/4" C.	0 A	0 A	MFR		MFR		
	FCU-10FL		120 V, 1Ø	HVAC	1	@	0.25	0	-	0	0	-	0	0	0.82 kVA	6.8 A	8.5 A	15 A	20 A	No	6	2#12 & 1#12 EGC IN 3/4" C.	0 A	0 A	MFR		MFR		
	FCU-10FL		120 V, 1Ø	HVAC	1	@	0.25	0	-	0	0	-	0	0	0.82 kVA	6.8 A	8.5 A	15 A	20 A	No	5	2#10 & 1#10 EGC IN 3/4" C.	0 A	0 A	MFR		MFR		
	FCU-10FL		120 V, 1Ø	HVAC	1	@	0.25	0	-	0	0	-	0	0	0.82 kVA	6.8 A	8.5 A	15 A	20 A	No	5	2#10 & 1#10 EGC IN 3/4" C.	0 A	0 A	MFR		MFR		
	FCU-10FL		120 V, 1Ø	HVAC	1	@	0.25	0	-	0	0	-	0	0	0.82 kVA	6.8 A	8.5 A	15 A	20 A	No	8	2#12 & 1#12 EGC IN 3/4" C.	0 A	0 A	MFR		MFR		
	FCU-10FL		120 V, 1Ø	HVAC	1	@	0.25	0	-	0	0	-	0	0	0.82 kVA	6.8 A	8.5 A	15 A	20 A	No	8	2#12 & 1#12 EGC IN 3/4" C.	0 A	0 A	MFR		MFR		
	FCU-10FL		120 V, 1Ø	HVAC	1	@	0.25	0	-	0	0	-	0	0	0.82 kVA	6.8 A	8.5 A	15 A	20 A	No	4	2#12 & 1#12 EGC IN 3/4" C.	0 A	0 A	MFR		MFR		
	FCU-10FL		120 V, 1Ø	HVAC	1	@	0.25	0	-	0	0	-	0	0	0.82 kVA	6.8 A	8.5 A	15 A	20 A	No	4	2#12 & 1#12 EGC IN 3/4" C.	0 A	0 A	MFR		MFR		
	FCU-10FL		120 V, 1Ø	HVAC	1	@	0.25	0	-	0	0	-	0	0	0.82 kVA	6.8 A	8.5 A	15 A	20 A	No	2	2#10 & 1#10 EGC IN 3/4" C.	0 A	0 A	MFR		MFR		
	FCU-10FL		120 V, 1Ø	HVAC	1	@	0.25	0	-	0	0	-	0	0	0.82 kVA	6.8 A	8.5 A	15 A	20 A	No	2	2#10 & 1#10 EGC IN 3/4" C.	0 A	0 A	MFR		MFR		
	FCU-10FL		120 V, 1Ø	HVAC	1	@	0.25	0	-	0	0	-	0	0	0.82 kVA	6.8 A	8.5 A	15 A	20 A	No	1	2#8 & 1#8 EGC IN 3/4" C.	0 A	0 A	MFR		MFR		
	FCU-10FL		120 V, 1Ø	HVAC	1	@	0.25	0	-	0	0	-	0	0	0.82 kVA	6.8 A	8.5 A	15 A	20 A	No	1	2#8 & 1#8 EGC IN 3/4" C.	0 A	0 A	MFR		MFR		
	FCU-CFL		120 V, 1Ø	HVAC	1	@	0.25	0	-	0	0	-	0	0	0.89 kVA	7.4 A	9.2 A	15 A	20 A	No	17	2#12 & 1#12 EGC IN 3/4" C.	0 A	0 A	MFR		MFR		
	FCU-CFL		120 V, 1Ø	HVAC	1	@	0.25	0	-	0	0	-	0	0	0.89 kVA	7.4 A	9.2 A	15 A	20 A	No	19	2#10 & 1#10 EGC IN 3/4" C.	0 A	0 A	MFR		MFR		
FMS-MLB2																													
	CAB-STAIR-B		120 V, 1Ø	HVAC Heating Only	0	-	0	0	-	0	0	-	0	0	0.55 kVA	4.6 A	5.8 A	15 A	20 A	No	1	2#10 & 1#10 EGC IN 3/4" C.	0 A	0 A	MFR	NF	MFR		
	FCU-03FL		120 V, 1Ø	HVAC	1	@	0.13	0	-	0	0	-	0	0	0.31 kVA	2.6 A	3.2 A	15 A	20 A	No	12	2#12 & 1#12 EGC IN 3/4" C.	0 A	0 A	MFR		MFR		
	FCU-03FL		120 V, 1Ø	HVAC	1	@	0.13	0	-	0	0	-	0	0	0.31 kVA	2.6 A	3.2 A	15 A	20 A	No	12	2#12 & 1#12 EGC IN 3/4" C.	0 A	0 A	MFR		MFR		
	FCU-06FL		120 V, 1Ø	HVAC	1	@	0.25	0	-	0	0	-	0	0	0.50 kVA	4.2 A	5.2 A	15 A	20 A	No	6	2#10 & 1#10 EGC IN 3/4" C.	0 A	0 A	MFR		MFR		
	FCU-06FL		120 V, 1Ø	HVAC	1	@	0.25	0	-	0	0	-	0	0	0.50 kVA	4.2 A	5.2 A	15 A	20 A	No	5	2#8 & 1#8 EGC IN 3/4" C.	0 A	0 A	MFR		MFR		
	FCU-06FL		120 V, 1Ø	HVAC	1	@	0.25	0	-	0	0	-	0	0	0.50 kVA	4.2 A	5.2 A	15 A	20 A	No	5	2#8 & 1#8 EGC IN 3/4" C.	0 A	0 A	MFR		MFR		
	FCU-10FL		120 V, 1Ø	HVAC	1	@	0.25	0	-	0	0	-	0	0	0.82 kVA	6.8 A	8.5 A	15 A	20 A	No	11	2#8 & 1#8 EGC IN 3/4" C.	0 A	0 A	MFR		MFR		
	FCU-10FL		120 V, 1Ø	HVAC	1	@	0.25	0	-	0	0	-	0	0	0.82 kVA	6.8 A	8.5 A	15 A	20 A	No	11	2#8 & 1#8 EGC IN 3/4" C.	0 A	0 A	MFR		MFR		
	FCU-10FL		120 V, 1Ø	HVAC	1	@	0.25	0	-	0	0	-	0	0	0.82 kVA	6.8 A	8.5 A	15 A	20 A	No	10	2#10 & 1#10 EGC IN 3/4" C.	0 A	0 A	MFR		MFR		
	FCU-10FL		120 V, 1Ø	HVAC	1	@	0.25	0	-	0	0	-	0	0	0.82 kVA	6.8 A	8.5 A	15 A	20 A	No	10	2#10 & 1#10 EGC IN 3/4" C.	0 A	0 A	MFR		MFR		
	FCU-10FL		120 V, 1Ø	HVAC	1	@	0.25	0	-	0	0	-	0	0	0.82 kVA	6.8 A	8.5 A	15 A	20 A	No	9	2#10 & 1#10 EGC IN 3/4" C.	0 A	0 A	MFR		MFR		
	FCU-10FL		120 V, 1Ø	HVAC	1	@	0.25	0	-	0	0	-	0	0	0.82 kVA	6.8 A	8.5 A	15 A	20 A	No	9	2#10 & 1#10 EGC IN 3/4" C.	0 A	0 A	MFR		MFR		
	FCU-10FL		120 V, 1Ø	HVAC	1	@	0.25	0	-	0	0	-	0	0	0.82 kVA	6.8 A	8.5 A	15 A	20 A	No	8	2#10 & 1#10 EGC IN 3/4" C.	0 A	0 A	MFR		MFR		
	FCU-10FL		120 V, 1Ø	HVAC	1	@	0.25	0	-	0	0	-	0	0	0.82 kVA	6.8 A	8.5 A	15 A	20 A	No	8	2#10 & 1#10 EGC IN 3/4" C.	0 A	0 A	MFR		MFR		
	FCU-10FL		120 V, 1Ø	HVAC	1	@	0.25	0	-	0	0	-	0	0	0.82 kVA	6.8 A	8.5 A	15 A	20 A	No	7	2#8 & 1#8 EGC IN 3/4" C.	0 A	0 A	MFR		MFR		
	FCU-10FL		120 V, 1Ø	HVAC	1	@	0.25	0	-	0	0	-	0	0	0.82 kVA	6.8 A	8.5 A	15 A	20 A	No	7	2#8 & 1#8 EGC IN 3/4" C.	0 A	0 A	MFR		MFR		
	FCU-202FL		120 V, 1Ø	HVAC	1	@	0.13	0	-	0	0	-	0	0	0.22 kVA	1.8 A	2.2 A	15 A	20 A	No	4	2#12 & 1#12 EGC IN 3/4" C.	0 A	0 A	MFR		MFR		
	FCU-202FL		120 V, 1Ø	HVAC	1	@	0.13	0	-	0	0	-	0	0	0.22 kVA	1.8 A	2.2 A	15 A	20 A	No	3	2#12 & 1#12 EGC IN 3/4" C.	0 A	0 A	MFR		MFR		
	FCU-202FL		120 V, 1Ø	HVAC	1	@	0.13	0	-	0	0	-	0	0	0.22 kVA	1.8 A	2.2 A	15 A	20 A	No	2	2#12 & 1#12 EGC IN 3/4" C.	0 A	0 A	MFR		MFR		
	FCU-204FL		120 V, 1Ø	HVAC	1	@	0.13	0	-	0	0	-	0	0	0.35 kVA	0 A	2.9 A	15 A	20 A	No	6	2#10 & 1#10 EGC IN 3/4" C.	0 A	0 A	MFR		MFR		
FMS-MLC																													
	BCU-4FL		120 V, 1Ø	HVAC	1	@	0.13	0	-	0	0	-	0	0	0.53 kVA	4.4 A	5.5 A	15 A	20 A	No	13	2#12 & 1#12 EGC IN 3/4" C.	0 A	0 A	MFR		MFR		
	BCU-5FL		120 V, 1Ø	HVAC	1	@	0.13	0	-	0	0	-	0	0	0.53 kVA	4.4 A	5.5 A	15 A	20 A	No	14	2#12 & 1#12 EGC IN 3/4" C.	0 A	0 A	MFR		MFR		
	BCU-6FL		120 V, 1Ø	HVAC	1	@	0.13	0	-	0	0	-	0	0	0.53 kVA	4.4 A	5.5 A	15 A	20 A	No	15	2#12 & 1#12 EGC IN 3/4" C.	0 A	0 A	MFR		MFR		
	BCU-14FL		208 V, 3Ø	HVAC	1	@	3	0	-	0	0	-	0	0	3.96 kVA	11 A	13.8 A	20 A	20 A	No	17,19,21	3#10 & 1#10 EGC IN 3/4" C.	0 A	0 A	MFR		MFR		
	BCU-15FL		208 V, 3Ø	HVAC	1	@	3	0	-	0	0	-	0	0	3.96 kVA	11 A	13.8 A	20 A	20 A	No	23,25,27	3#12 & 1#12 EGC IN 3/4" C.	0 A	0 A	MFR		MFR		
	BCU-16FL		208 V, 3Ø	HVAC	1	@	3	0	-	0	0	-	0	0	3.96 kVA	11 A	13.8 A	20 A	20 A	No	18,20,22	3#12 & 1#12 EGC IN 3/4" C.	0 A	0 A	MFR		MFR		
	ERV-1FL ERW		120 V, 1Ø	HVAC	1	@	0.75	0	-	0	0	-	0	0	1.66 kVA	13.8 A	17.3 A	25 A	25 A	No	24	2#6 & 1#4 EGC IN 3/4" C.	0 A	0 A	MFR		MFR		
	FCU-03FL		120 V, 1Ø	HVAC	1	@	0.13	0	-	0	0	-	0	0	0.31 kVA	2.6 A	3.2 A	15 A	20 A	No	10	2#12 & 1#12 EGC IN 3/4" C.	0 A	0 A	MFR		MFR		
	FCU-03FL		120 V, 1Ø	HVAC	1	@	0.13	0	-	0	0	-	0	0	0.31 kVA	2.6 A	3.2 A	15 A	20 A	No	10	2#12 & 1#12 EGC IN 3/4" C.	0 A	0 A	MFR		MFR		
	FCU-03FL		120 V, 1Ø	HVAC	1	@	0.13	0	-	0	0	-	0	0	0.31 kVA	2.6 A	3.2 A	15 A	20 A	No	11	2#12 & 1#12 EGC IN 3/4" C.	0 A	0 A	MFR		MFR		
	FCU-03FL		120 V, 1Ø	HVAC	1	@	0.13	0	-	0	0	-	0	0	0.31 kVA	2.6 A	3.2 A	15 A	20 A	No	11	2#12 & 1#12 EGC IN 3/4" C.	0 A	0 A	MFR		MFR		
	FCU-03FL		120 V, 1Ø	HVAC	1	@	0.13	0	-	0	0	-	0	0	0.31 kVA	2.6 A	3.2 A	15 A	20 A	No	12	2#12 & 1#12 EGC IN 3/4" C.	0 A	0 A	MFR		MFR		
	FCU-12FL		120 V, 1Ø	HVAC	1	@	0.25	0	-	0	0	-	0	0	0.89 kVA	7.4 A	9.2 A	15 A	20 A	No	5	2#6 & 1#6 EGC IN 3/4" C.	0 A	0 A	MFR		MFR		
	FCU-12FL		120 V, 1Ø	HVAC	1	@	0.25	0	-	0	0	-	0	0	0.89 kVA	7.4 A	9.2 A	15 A	20 A	No	5	2#6 & 1#6 EGC IN 3/4" C.	0 A	0 A	MFR		MFR		
	FCU-12FL		120 V, 1Ø	HVAC	1	@	0.25	0	-	0	0	-	0	0	0.89 kVA	7.4 A	9.2 A	15 A	20 A	No	6	2#6 & 1#6 EGC IN 3/4" C.	0 A	0 A	MFR		MFR		
	FCU-12FL		120 V, 1Ø	HVAC	1	@	0.25	0	-	0	0	-	0	0	0.89 kVA	7.4 A	9.2 A	15 A	20 A	No	6	2#6 & 1#6 EGC IN 3/4" C.	0 A	0 A	MFR		MFR		
	FCU-12FL		120 V, 1Ø	HVAC	1	@	0.25	0	-	0	0	-	0	0	0.89 kVA	7.4 A	9.2 A	15 A	20 A	No	7	2#8 & 1#8 EGC IN 3/4" C.	0 A	0 A	MFR		MFR		
	FCU-12FL		120 V, 1Ø	HVAC	1	@	0.25	0	-	0	0	-	0	0	0.89 kVA	7.4 A	9.2 A	15 A	20 A	No	7	2#8 & 1#8 EGC IN 3/4" C.	0 A	0 A	MFR		MFR		
	FCU-12FL		120 V, 1Ø	HVAC	1	@	0.25	0	-	0	0	-	0	0	0.89 kVA	7.4 A	9.2 A	15 A	20 A	No	8	2#8 & 1#8 EGC IN 3/4" C.	0 A	0 A	MFR		MFR		
	FCU-12FL		120 V, 1Ø	HVAC	1	@	0.25	0	-	0	0	-	0	0	0.89 kVA	7.4 A	9.2 A	15 A	20 A	No	8	2#8 & 1#8 EGC IN 3/4" C.	0 A	0 A	MFR		MFR		
	FCU-12FL		120 V, 1Ø	HVAC	1	@	0.25	0	-	0	0	-	0	0	0.89 kVA	7.4 A	9.2 A	15 A	20 A	No	4	2#6 & 1#6 EGC IN 3/4" C.	0 A	0 A	MFR		MFR		
	FCU-12FL		120 V, 1Ø	HVAC	1	@	0.25	0	-	0	0	-	0	0	0.89 kVA	7.4 A	9.2 A	15 A	20 A	No	4	2#6 & 1#6 EGC IN 3/4" C.	0 A	0 A	MFR		MFR		
	FCU-12FL		120 V, 1Ø	HVAC	1	@	0.25	0	-	0	0	-	0	0	0.89 kVA	7.4 A	9.2 A	15 A	20 A	No	16	2#12 & 1#12 EGC IN 3/4" C.	0 A	0 A	MFR	NF	MFR		
	FCU-12FL		120 V, 1Ø	HVAC	1	@	0.25	0	-	0	0	-	0	0	0.89 kVA	7.4 A	9.2 A	15 A	20 A	No	9	2#8 & 1#8 EGC IN 3/4" C.	0 A	0 A	MFR		MFR		
	FCU-12FL		120 V, 1Ø	HVAC	1	@	0.25	0	-	0	0	-	0	0	0.89 kVA	7.4 A	9.2 A	15 A	20 A	No	9	2#8 & 1#8 EGC IN 3/4" C.	0 A	0 A	MFR		MFR		
FMS-MLD																													
	BCU-7FL		120 V, 1Ø	HVAC	1	@	1	0	-	0	0	-	0	0	1.92 kVA	16 A	20 A	30 A	30 A	No	13	2#8 & 1#4 EGC IN 3/4" C.	0 A	0 A	MFR		MFR		
	BCU-8FL		208 V, 3Ø	HVAC	1	@	2	0	-	0	0	-	0	0	2.81 kVA	7.8 A	9.8 A	15 A	15 A	No	28,30,32	3#12 & 1#12 EGC IN 3/4" C.	0 A	0 A	MFR		MFR		
	BCU-9FL		120 V, 1Ø	HVAC	1	@	1	0	-	0	0	-	0	0	1.92 kVA	16 A	20 A	30 A	30 A	No	16	2#8 & 1#4 EGC IN 3/4" C.	0 A	0 A	MFR		MFR		
	BCU-10FL		208 V, 3Ø	HVAC	1	@	3	0	-	0	0	-	0	0	3.96 kVA	11 A	13.8 A	20 A	20 A	No	10,12,14	3#12 & 1#12 EGC IN 3/4" C.	0 A	0 A	MFR		MFR		
	BCU-11FL		120 V, 1Ø	HVAC	1	@	0.13	0	-	0	0	-	0	0	0.53 kVA	4.4 A	5.5 A	15 A	20 A	No	15	2#12 & 1#12 EGC IN 3/4" C.	0 A	0 A	MFR		MFR		
	BCU-12FL		208 V, 3Ø	HVAC	1	@	5	0	-	0	0	-	0	0	6.30 kVA	17.5 A	21.9 A	30 A	30 A	No	2,4,6	3#10 & 1#10 EGC IN 3/4" C.	0 A	0 A	MFR		MFR		
	BCU-13FL		208 V, 3Ø	HVAC	1	@	2	0	-	0	0	-	0	0	2.81 kVA	7.8 A	9.8 A	15 A	15 A	No	27,29,31	3#12 & 1#12 EGC IN 3/4" C.	0 A	0 A	MFR		MFR		
	CAB-STAIR-D		120 V, 1Ø	HVAC Heating Only	0	-	0	0	-	0	0	-	0	0	0.82 kVA	6.8 A	8.5 A	15 A	15 A	No	21	2#10 & 1#10 EGC IN 3/4" C.	0 A	0 A	MFR	NF	MFR		
	CAB-VEST-E		120 V, 1Ø	HVAC Heating Only	0	-	0	0	-	0	0	-	0	0	0.50 kVA	4.2 A	5.3 A	15 A	15 A	No	22	2#12 & 1#12 EGC IN 3/4" C.	0 A	0 A	MFR	NF	MFR		
	FCU-06FL		120 V, 1Ø	HVAC	1	@	0.25	0	-	0	0	-	0	0	0.50 kVA	4.2 A	5.2 A	15 A	20 A	No	19	2#12 & 1#12 EGC IN 3/4" C.	0 A	0 A	MFR		MFR		
	FCU-06FL		120 V, 1Ø	HVAC	1	@	0.25	0	-	0	0	-	0	0	0.50 kVA	4.2 A	5.2 A	15 A	20 A	No	19	2#12 & 1#12 EGC IN 3/4" C.	0 A	0 A	MFR		MFR		
	FCU-08FL		120 V, 1Ø	HVAC	1	@	0.25	0	-	0	0	-	0	0	0.58 kVA	4.8 A	6 A	15 A	15 A	No	20	2#12 & 1#12 EGC IN 3/4" C.	0 A	0 A	MFR		MFR		
	FCU-212FL		120 V, 1Ø	HVAC	1	@	0.25	0	-	0	0	-	0	0	1.02 kVA	0 A	8.5 A	15 A	20 A	No	17	2#8 & 1#8 EGC IN 3/4" C.	0 A	0 A	MFR		MFR		
	FCU-212FL		120 V, 1Ø	HVAC	1	@	0.25	0	-	0	0	-	0	0	1.02 kVA	0 A	8.5 A	15 A	20 A	No	17	2#8 & 1#8 EGC IN 3/4" C.	0 A	0 A	MFR		MFR		
	FCU-212FL		120 V, 1Ø	HVAC	1	@	0.25	0	-	0	0	-	0	0	1.02 kVA	0 A	8.5 A	15 A	15 A	No	11	2#12 & 1#12 EGC IN 3/4" C.	0 A	0 A	MFR		MFR		
	FCU-212FL		120 V, 1Ø	HVAC	1	@	0.25	0	-	0	0	-	0	0	1.02 kVA	0 A	8.5 A	15 A	20 A	No	9	2#10 & 1#10 EGC IN 3/4" C.	0 A	0 A	MFR		MFR		
	FCU-212FL		120 V, 1Ø	HVAC	1	@	0.25	0	-	0	0	-	0	0	1.02 kVA	0 A	8.5 A	15 A	20 A	No	9	2#10 & 1#10 EGC IN 3/4" C.	0 A	0 A	MFR		MFR		
	FCU-212FL		120 V, 1Ø	HVAC	1	@	0.25	0	-	0	0	-	0	0	1.02 kVA	0 A	8.5 A	15 A	20 A	No	1	2#6 & 1#6 EGC IN 3/4" C.	0 A	0 A	MFR		MFR		
	FCU-212FL		120 V, 1Ø	HVAC	1	@	0.25	0	-	0	0	-	0	0	1.02 kVA	0 A	8.5 A	15 A	20 A	No	1	2#6 & 1#6 EGC IN 3/4" C.	0 A	0 A	MFR		MFR		
	FCU-212FL		120 V, 1Ø	HVAC	1	@	0.25	0	-	0	0	-	0	0	1.02 kVA	0 A	8.5 A	15 A	20 A	No	8	2#10 & 1#10 EGC IN 3/4" C.	0 A	0 A	MFR		MFR		
	FCU-212FL		120 V, 1Ø	HVAC	1	@	0.25	0	-	0	0	-	0	0	1.02 kVA	0 A	8.5 A	15 A	20 A	No	8	2#10 & 1#10 EGC IN 3/4" C.	0 A	0 A	MFR		MFR		
	FCU-212FL		120 V, 1Ø	HVAC	1	@	0.25	0	-	0	0	-	0	0	1.02 kVA	0 A	8.5 A	15 A	20 A	No	5	2#10 & 1#10 EGC IN 3/4" C.	0 A	0 A	MFR		MFR		
	FCU-212FL		120 V, 1Ø	HVAC	1	@	0.25	0	-	0	0	-	0	0	1.02 kVA	0 A	8.5 A	15 A	20 A	No	5	2#10 & 1#10 EGC IN 3/4" C.	0 A	0 A	MFR		MFR		
	FCU-212FL		120 V, 1Ø	HVAC	1	@	0.25	0	-	0	0	-	0	0	1.02 kVA	0 A	8.5 A	15 A	20 A	No	3	2#8 & 1#8 EGC IN 3/4" C.	0 A	0 A	MFR		MFR		
	FCU-212FL		120 V, 1Ø	HVAC	1	@	0.25	0	-	0	0	-	0	0	1.02 kVA	0 A	8.5 A	15 A	20 A	No	3	2#8 & 1#8 EGC IN 3/4" C.	0 A	0 A	MFR		MFR		
	SS-120.1		208 V, 1Ø	HVAC Cooling Only	0	-	0	0	-	0	0	-	0	0	0.05 kVA	0.2 A	0 A	0.2 A	20 A	Yes	23,25	2#10 & 1#10 EGC IN 3/4" C.	0 A	0 A	NF	E.C	MFR.		
	SS-120.1		208 V, 1Ø	HVAC Cooling Only	0	-	0	0	-	0	0	-	0	0	2.53 kVA	12.2 A	13 A	0 A	20 A	No	23,25	2#10 & 1#10 EGC IN 3/4" C.	0 A	0 A	E.C.	NF	MFR		
	SS-123.1		208 V, 1Ø	HVAC Cooling Only	0	-	0	0	-	0	0	-	0	0	0.05 kVA	0.2 A	0 A	0.6 A	20 A	Yes	24,26	2#12 & 1#12 EGC IN 3/4" C.	0 A	0 A	NF	E.C	MFR.		
	SS-123.1		208 V, 1Ø	HVAC Cooling Only	0	-	0	0	-	0	0	-	0	0	2.53 kVA	12.2 A	13 A	0 A	20 A	No	24,26	2#12 & 1#12 EGC IN 3/4" C.	0 A	0 A	E.C.	NF	MFR		
HC																													
	UH-008		120 V, 1Ø	HVAC Heating Only	1	@	0.1	0	-	0	0	-	0	0	0.53 kVA	4.4 A	5.5 A	15 A	15 A	No	7	2#12 & 1#12 EGC IN 3/4" C.	0 A	0 A	MANF.	F	MANF.		

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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	21002885.03
Drawn	JERVET
Checked	BRILEA
Approved	JERVET

SHEET TITLE
ELECTRICAL SCHEDULES

SCALE
Scale:

SHEET NUMBER
E600

ELECTRICAL CONNECTION SCHEDULE

ITEM	LOCATION	VOLTAGE	LOAD CLASS.	MOTORS QTY	@	HP	QTY	@	HP	QTY	@	HP	ELECTRIC HEATING ELEMENT (KW)	APPARENT LOAD	FLA	MCA	MOCP	OCPD	REQ EMER	CIRCUIT NUMBER	WIRE AND RACEWAY	ISC	SCCR	DISCONNECT BY	DISCONNECT TYPE	CONTROLLER / STARTER BY	CONTROLLER / STARTER TYPE	COMMENTS
FMS-MLA																												
FCU-10FL		120 V, 1Ø	HVAC	1	@	0.25	0	-	0	0	-	0	0	0.82 kVA	6.8 A	8.5 A	15 A	20 A	No	1	2#8 & 1#8 EGC IN 3/4" C.	0 A	0 A	MFR		MFR		
FCU-10FL		120 V, 1Ø	HVAC	1	@	0.25	0	-	0	0	-	0	0	0.82 kVA	6.8 A	8.5 A	15 A	20 A	No	1	2#8 & 1#8 EGC IN 3/4" C.	0 A	0 A	MFR		MFR		
FCU-10FL		120 V, 1Ø	HVAC	1	@	0.25	0	-	0	0	-	0	0	0.82 kVA	6.8 A	8.5 A	15 A	20 A	No	24	2#8 & 1#8 EGC IN 3/4" C.	0 A	0 A	MFR		MFR		
FCU-10FL		120 V, 1Ø	HVAC	1	@	0.25	0	-	0	0	-	0	0	0.82 kVA	6.8 A	8.5 A	15 A	20 A	No	24	2#8 & 1#8 EGC IN 3/4" C.	0 A	0 A	MFR		MFR		
FMS-MLB1																												
FCU-03FL		120 V, 1Ø	HVAC	1	@	0.13	0	-	0	0	-	0	0	0.31 kVA	2.6 A	3.2 A	15 A	20 A	No	18	2#10 & 1#10 EGC IN 3/4" C.	0 A	0 A	MFR		MFR		
FCU-03FL		120 V, 1Ø	HVAC	1	@	0.13	0	-	0	0	-	0	0	0.31 kVA	2.6 A	3.2 A	15 A	20 A	No	18	2#10 & 1#10 EGC IN 3/4" C.	0 A	0 A	MFR		MFR		
FCU-03FL		120 V, 1Ø	HVAC	1	@	0.13	0	-	0	0	-	0	0	0.31 kVA	2.6 A	3.2 A	15 A	20 A	No	15	2#12 & 1#12 EGC IN 3/4" C.	0 A	0 A	MFR		MFR		
FCU-12FL		120 V, 1Ø	HVAC	1	@	0.25	0	-	0	0	-	0	0	0.89 kVA	7.4 A	9.2 A	15 A	20 A	No	13	2#6 & 1#6 EGC IN 3/4" C.	0 A	0 A	MFR		MFR		
FCU-12FL		120 V, 1Ø	HVAC	1	@	0.25	0	-	0	0	-	0	0	0.89 kVA	7.4 A	9.2 A	15 A	20 A	No	13	2#6 & 1#6 EGC IN 3/4" C.	0 A	0 A	MFR		MFR		
FCU-12FL		120 V, 1Ø	HVAC	1	@	0.25	0	-	0	0	-	0	0	0.89 kVA	7.4 A	9.2 A	15 A	20 A	No	16	2#6 & 1#6 EGC IN 3/4" C.	0 A	0 A	MFR		MFR		
FCU-12FL		120 V, 1Ø	HVAC	1	@	0.25	0	-	0	0	-	0	0	0.89 kVA	7.4 A	9.2 A	15 A	20 A	No	16	2#6 & 1#6 EGC IN 3/4" C.	0 A	0 A	MFR		MFR		
FCU-12FL		120 V, 1Ø	HVAC	1	@	0.25	0	-	0	0	-	0	0	0.89 kVA	7.4 A	9.2 A	15 A	20 A	No	11	2#8 & 1#8 EGC IN 3/4" C.	0 A	0 A	MFR		MFR		
FCU-12FL		120 V, 1Ø	HVAC	1	@	0.25	0	-	0	0	-	0	0	0.89 kVA	7.4 A	9.2 A	15 A	20 A	No	11	2#8 & 1#8 EGC IN 3/4" C.	0 A	0 A	MFR		MFR		
FCU-12FL		120 V, 1Ø	HVAC	1	@	0.25	0	-	0	0	-	0	0	0.89 kVA	7.4 A	9.2 A	15 A	20 A	No	14	2#10 & 1#10 EGC IN 3/4" C.	0 A	0 A	MFR		MFR		
FCU-12FL		120 V, 1Ø	HVAC	1	@	0.25	0	-	0	0	-	0	0	0.89 kVA	7.4 A	9.2 A	15 A	20 A	No	14	2#10 & 1#10 EGC IN 3/4" C.	0 A	0 A	MFR		MFR		
FCU-12FL		120 V, 1Ø	HVAC	1	@	0.25	0	-	0	0	-	0	0	0.89 kVA	7.4 A	9.2 A	15 A	20 A	No	9	2#10 & 1#10 EGC IN 3/4" C.	0 A	0 A	MFR		MFR		
FCU-12FL		120 V, 1Ø	HVAC	1	@	0.25	0	-	0	0	-	0	0	0.89 kVA	7.4 A	9.2 A	15 A	20 A	No	9	2#10 & 1#10 EGC IN 3/4" C.	0 A	0 A	MFR		MFR		
FCU-12FL		120 V, 1Ø	HVAC	1	@	0.25	0	-	0	0	-	0	0	0.89 kVA	7.4 A	9.2 A	15 A	20 A	No	12	2#10 & 1#10 EGC IN 3/4" C.	0 A	0 A	MFR		MFR		
FCU-12FL		120 V, 1Ø	HVAC	1	@	0.25	0	-	0	0	-	0	0	0.89 kVA	7.4 A	9.2 A	15 A	20 A	No	12	2#10 & 1#10 EGC IN 3/4" C.	0 A	0 A	MFR		MFR		
FCU-12FL		120 V, 1Ø	HVAC	1	@	0.25	0	-	0	0	-	0	0	0.89 kVA	7.4 A	9.2 A	15 A	20 A	No	7	2#10 & 1#10 EGC IN 3/4" C.	0 A	0 A	MFR		MFR		
FCU-12FL		120 V, 1Ø	HVAC	1	@	0.25	0	-	0	0	-	0	0	0.89 kVA	7.4 A	9.2 A	15 A	20 A	No	7	2#10 & 1#10 EGC IN 3/4" C.	0 A	0 A	MFR		MFR		
FCU-12FL		120 V, 1Ø	HVAC	1	@	0.25	0	-	0	0	-	0	0	0.89 kVA	7.4 A	9.2 A	15 A	20 A	No	10	2#8 & 1#8 EGC IN 3/4" C.	0 A	0 A	MFR		MFR		
FCU-12FL		120 V, 1Ø	HVAC	1	@	0.25	0	-	0	0	-	0	0	0.89 kVA	7.4 A	9.2 A	15 A	20 A	No	10	2#8 & 1#8 EGC IN 3/4" C.	0 A	0 A	MFR		MFR		
FCU-CFL		120 V, 1Ø	HVAC	1	@	0.25	0	-	0	0	-	0	0	0.89 kVA	7.4 A	9.2 A	15 A	20 A	No	22	2#12 & 1#12 EGC IN 3/4" C.	0 A	0 A	MFR		MFR		
FMS-MLB2																												
FCU-03FL		120 V, 1Ø	HVAC	1	@	0.13	0	-	0	0	-	0	0	0.31 kVA	2.6 A	3.2 A	15 A	20 A	No	13	2#12 & 1#12 EGC IN 3/4" C.	0 A	0 A	MFR		MFR		
FCU-03FL		120 V, 1Ø	HVAC	1	@	0.13	0	-	0	0	-	0	0	0.31 kVA	2.6 A	3.2 A	15 A	20 A	No	13	2#12 & 1#12 EGC IN 3/4" C.	0 A	0 A	MFR		MFR		
FCU-03FL		120 V, 1Ø	HVAC	1	@	0.13	0	-	0	0	-	0	0	0.31 kVA	2.6 A	3.2 A	15 A	20 A	No	28	2#12 & 1#12 EGC IN 3/4" C.	0 A	0 A	MFR		MFR		
FCU-03FL		120 V, 1Ø	HVAC	1	@	0.13	0	-	0	0	-	0	0	0.31 kVA	2.6 A	3.2 A	15 A	20 A	No	28	2#12 & 1#12 EGC IN 3/4" C.	0 A	0 A	MFR		MFR		
FCU-06FL		120 V, 1Ø	HVAC	1	@	0.25	0	-	0	0	-	0	0	0.50 kVA	4.2 A	5.2 A	15 A	20 A	No	26	2#8 & 1#8 EGC IN 3/4" C.	0 A	0 A	MFR		MFR		
FCU-06FL		120 V, 1Ø	HVAC	1	@	0.25	0	-	0	0	-	0	0	0.50 kVA	4.2 A	5.2 A	15 A	20 A	No	26	2#8 & 1#8 EGC IN 3/4" C.	0 A	0 A	MFR		MFR		
FCU-12FL		120 V, 1Ø	HVAC	1	@	0.25	0	-	0	0	-	0	0	0.89 kVA	7.4 A	9.2 A	15 A	20 A	No	27	2#8 & 1#8 EGC IN 3/4" C.	0 A	0 A	MFR		MFR		
FCU-12FL		120 V, 1Ø	HVAC	1	@	0.25	0	-	0	0	-	0	0	0.89 kVA	7.4 A	9.2 A	15 A	20 A	No	27	2#8 & 1#8 EGC IN 3/4" C.	0 A	0 A	MFR		MFR		
FCU-12FL		120 V, 1Ø	HVAC	1	@	0.25	0	-	0	0	-	0	0	0.89 kVA	7.4 A	9.2 A	15 A	20 A	No	24	2#8 & 1#8 EGC IN 3/4" C.	0 A	0 A	MFR		MFR		
FCU-12FL		120 V, 1Ø	HVAC	1	@	0.25	0	-	0	0	-	0	0	0.89 kVA	7.4 A	9.2 A	15 A	20 A	No	24	2#8 & 1#8 EGC IN 3/4" C.	0 A	0 A	MFR		MFR		
FCU-12FL		120 V, 1Ø	HVAC	1	@	0.25	0	-	0	0	-	0	0	0.89 kVA	7.4 A	9.2 A	15 A	20 A	No	23	2#10 & 1#10 EGC IN 3/4" C.	0 A	0 A	MFR		MFR		
FCU-12FL		120 V, 1Ø	HVAC	1	@	0.25	0	-	0	0	-	0	0	0.89 kVA	7.4 A	9.2 A	15 A	20 A	No	23	2#10 & 1#10 EGC IN 3/4" C.	0 A	0 A	MFR		MFR		
FCU-12FL		120 V, 1Ø	HVAC	1	@	0.25	0	-	0	0	-	0	0	0.89 kVA	7.4 A	9.2 A	15 A	20 A	No	22	2#8 & 1#8 EGC IN 3/4" C.	0 A	0 A	MFR		MFR		
FCU-12FL		120 V, 1Ø	HVAC	1	@	0.25	0	-	0	0	-	0	0	0.89 kVA	7.4 A	9.2 A	15 A	20 A	No	22	2#8 & 1#8 EGC IN 3/4" C.	0 A	0 A	MFR		MFR		
FCU-12FL		120 V, 1Ø	HVAC	1	@	0.25	0	-	0	0	-	0	0	0.89 kVA	7.4 A	9.2 A	15 A	20 A	No	21	2#8 & 1#8 EGC IN 3/4" C.	0 A	0 A	MFR		MFR		
FCU-12FL		120 V, 1Ø	HVAC	1	@	0.25	0	-	0	0	-	0	0	0.89 kVA	7.4 A	9.2 A	15 A	20 A	No	21	2#8 & 1#8 EGC IN 3/4" C.	0 A	0 A	MFR		MFR		
FCU-12FL		120 V, 1Ø	HVAC	1	@	0.25	0	-	0	0	-	0	0	0.89 kVA	7.4 A	9.2 A	15 A	20 A	No	20	2#6 & 1#6 EGC IN 3/4" C.	0 A	0 A	MFR		MFR		
FCU-12FL		120 V, 1Ø	HVAC	1	@	0.25	0	-	0	0	-	0	0	0.89 kVA	7.4 A	9.2 A	15 A	20 A	No	20	2#6 & 1#6 EGC IN 3/4" C.	0 A	0 A	MFR		MFR		
FCU-12FL		120 V, 1Ø	HVAC	1	@	0.25	0	-	0	0	-	0	0	0.89 kVA	7.4 A	9.2 A	15 A	20 A	No	19	2#6 & 1#6 EGC IN 3/4" C.	0 A	0 A	MFR		MFR		
FCU-12FL		120 V, 1Ø	HVAC	1	@	0.25	0	-	0	0	-	0	0	0.89 kVA	7.4 A	9.2 A	15 A	20 A	No	19	2#6 & 1#6 EGC IN 3/4" C.	0 A	0 A	MFR		MFR		
FCU-12FL		120 V, 1Ø	HVAC	1	@	0.25	0	-	0	0	-	0	0	0.89 kVA	7.4 A	9.2 A	15 A	20 A	No	18	2#6 & 1#6 EGC IN 3/4" C.	0 A	0 A	MFR		MFR		
FCU-12FL		120 V, 1Ø	HVAC	1	@	0.25	0	-	0	0	-	0	0	0.89 kVA	7.4 A	9.2 A	15 A	20 A	No	18	2#6 & 1#6 EGC IN 3/4" C.	0 A	0 A	MFR		MFR		
FCU-12FL		120 V, 1Ø	HVAC	1	@	0.25	0	-	0	0	-	0	0	0.89 kVA	7.4 A	9.2 A	15 A	20 A	No	17	2#4 & 1#4 EGC IN 1" C.	0 A	0 A	MFR		MFR		
FCU-12FL		120 V, 1Ø	HVAC	1	@	0.25	0	-	0	0	-	0	0	0.89 kVA	7.4 A	9.2 A	15 A	20 A	No	17	2#4 & 1#4 EGC IN 1" C.	0 A	0 A	MFR		MFR		
FCU-12FL		120 V, 1Ø	HVAC	1	@	0.25	0	-	0	0	-	0	0	0.89 kVA	7.4 A	9.2 A	15 A	20 A	No	14	2#6 & 1#6 EGC IN 3/4" C.	0 A	0 A	MFR		MFR		
FCU-12FL		120 V, 1Ø	HVAC	1	@	0.25	0	-	0	0	-	0	0	0.89 kVA	7.4 A	9.2 A	15 A	20 A	No	14	2#6 & 1#6 EGC IN 3/4" C.	0 A	0 A	MFR		MFR		
FCU-12FL		120 V, 1Ø	HVAC	1	@	0.25	0	-	0	0	-	0	0	0.89 kVA	7.4 A	9.2 A	15 A	20 A	No	15	2#6 & 1#6 EGC IN 3/4" C.	0 A	0 A	MFR		MFR		
FCU-12FL		120 V, 1Ø	HVAC	1	@	0.25	0	-	0	0	-	0	0	0.89 kVA	7.4 A	9.2 A	15 A	20 A	No	15	2#6 & 1#6 EGC IN 3/4" C.	0 A	0 A	MFR		MFR		
FMS-MLC																												
FCU-10FL		120 V, 1Ø	HVAC	1	@	0.25	0	-	0	0	-	0	0	0.82 kVA	6.8 A	8.5 A	15 A	20 A	No	1	2#12 & 1#12 EGC IN 3/4" C.	0 A	0 A	MFR		MFR		
FCU-10FL		120 V, 1Ø	HVAC	1	@	0.25	0	-	0	0	-	0	0	0.82 kVA	6.8 A	8.5 A	15 A	20 A	No	1	2#12 & 1#12 EGC IN 3/4" C.	0 A	0 A	MFR		MFR		
FCU-10FL		120 V, 1Ø	HVAC	1	@	0.25	0	-	0	0	-	0	0	0.82 kVA	6.8 A	8.5 A	15 A	20 A	No	2	2#12 & 1#12 EGC IN 3/4" C.	0 A	0 A	MFR		MFR		
FCU-10FL		120 V, 1Ø	HVAC	1	@	0.25	0	-	0	0	-	0	0	0.82 kVA	6.8 A	8.5 A	15 A	20 A	No	2	2#12 & 1#12 EGC IN 3/4" C.	0 A	0 A	MFR		MFR		
FCU-10FL		120 V, 1Ø	HVAC	1	@	0.25	0	-	0	0	-	0	0	0.82 kVA	6.8 A	8.5 A	15 A	20 A	No	3	2#10 & 1#10 EGC IN 3/4" C.	0 A	0 A	MFR		MFR		
FCU-10FL		120 V, 1Ø	HVAC	1	@	0.25	0	-	0	0	-	0	0	0.82 kVA	6.8 A	8.5 A	15 A	20 A	No	3	2#10 & 1#10 EGC IN 3/4" C.	0 A	0 A	MFR		MFR		

ELECTRICAL CONNECTION SCHEDULE

ITEM	LOCATION	VOLTAGE	LOAD CLASS.	MOTORS QTY	@	HP	QTY	@	HP	QTY	@	HP	ELECTRIC HEATING ELEMENT (KW)	APPARENT LOAD	FLA	MCA	MOCP	OCPD	REQ EMER	CIRCUIT NUMBER	WIRE AND RACEWAY	ISC	SCCR	DISCONNECT BY	DISCONNECT TYPE	CONTROLLER / STARTER BY	CONTROLLER / STARTER TYPE	COMMENTS
FMS-BMHA																												
CPDOAS-4		277 V, 1Ø	HVAC Heating Only	1	@	0.75	0	-	0	0	-	0	0	1.91 kVA	6.9 A	8.6 A	15 A	15 A	No	14	2#10 & 1#10 EGC IN 3/4" C.	0 A	0 A	E.C.	F	E.C.	FV	
CWP-1 FL		480 V, 3Ø	HVAC Cooling Only	1	@	20	0	-	0	0	-	0	0	22.45 kVA	27 A	33.8 A	50 A	50 A	No	7,9,11	3#8 & 1#10 EGC IN 3/4" C.	0 A	0 A	E.C.	F	E.C.	FV	
CWP-2 FL		480 V, 3Ø	Redundant	1	@	20	0	-	0	0	-	0	0	22.45 kVA	27 A	33.8 A	50 A	50 A	No	8,10,12	3#8 & 1#10 EGC IN 3/4" C.	0 A	0 A	E.C.	F	E.C.	FV	
DOAS-4FL		480 V, 3Ø	HVAC	0	-	0	0	-	0	0	-	0	0	56.95 kVA	0 A	68.5 A	80 A	80 A	No	13,15,17	3#4 & 1#8 EGC IN 1" C.	0 A	0 A	E.C.	F			
HWP-1 FL		480 V, 3Ø	HVAC Heating Only	1	@	20	0	-	0	0	-	0	0	22.45 kVA	27 A	33.8 A	50 A	50 A	No	1,3,5	3#8 & 1#10 EGC IN 3/4" C.	0 A	0 A	E.C.	F	E.C.	FV	
HWP-2 FL		480 V, 3Ø	Redundant	1	@	20	0	-	0	0	-	0	0	22.45 kVA	27 A	33.8 A	50 A	50 A	No	2,4,6	3#8 & 1#10 EGC IN 3/4" C.	0 A	0 A	E.C.	F	E.C.	FV	
FMS-MHA																												
CPRTU-2		277 V, 1Ø	HVAC Heating Only	1	@	0.75	0	-	0	0	-	0	0	1.91 kVA	6.9 A	8.6 A	15 A	15 A	No	20	2#12 & 1#12 EGC IN 3/4" C.	0 A	0 A	E.C.	F	E.C.	FV	
DOAS-1FL		480 V, 3Ø	HVAC	0	-	0	0	-	0	0	-	0	0	33.84 kVA	40.7 A	46.4 A	60 A	60 A	No	2,4,6	3#6 & 1#10 EGC IN 3/4" C.	0 A	0 A	MFR		MFR		
DOAS-2FL		480 V, 3Ø	HVAC	0	-	0	0	-	0	0	-	0	0	51.05 kVA	0 A	61.4 A	90 A	90 A	No	1,3,5	3#4 & 1#8 EGC IN 1" C.	0 A	0 A	MFR		MFR		
DOAS-3FL		480 V, 3Ø	HVAC	0	-	0	0	-	0	0	-	0	0	22.03 kVA	0 A	26.5 A	30 A	30 A	No	8,10,12	3#10 & 1#10 EGC IN 3/4" C.	0 A	0 A	MFR		MFR		
MAU-1FL		480 V, 3Ø	HVAC	1	@	5	0	-	0	0	-	0	0	59.69 kVA	0 A	71.8 A	80 A	80 A	No	19,21,23	3#3 & 1#8 EGC IN 1" C.	0 A	0 A	E.C.		E.C.		
RTU-1FL		480 V, 3Ø	HVAC	0	-	0	0	-	0	0	-	0	0	85.30 kVA	102.6 A	113.9 A	125 A	125 A	No	7,9,11	3#2 & 1#6 EGC IN 1 1/4" C.	0 A	0 A					
RTU-2FL RETURN		480 V, 3Ø	HVAC	2	@	7.5	0	-	0	0	-	0	0	18.29 kVA	22 A	24.8 A	35 A	35 A	No	14,16,18	3#10 & 1#10 EGC IN 3/4" C.	0 A	0 A	MFR	F			
RTU-2FL SUPPLY		480 V, 3Ø	HVAC	2	@	10	0	-	0	0	-	0	0	23.28 kVA	28 A	31.5 A	40 A	40 A	No	13,15,17	3#8 & 1#10 EGC IN 3/4" C.	0 A	0 A	MFR	F			
FMS-MHC																												
CPRTU-3		277 V, 1Ø	HVAC Heating Only	1	@	0.75	0	-	0	0	-	0	0	1.91 kVA	6.9 A	8.6 A	15 A	15 A	No	13	2#12 & 1#12 EGC IN 3/4" C.	0 A	0 A	E.C.	F	E.C.	FV	
DOAS-7FL		480 V, 3Ø	HVAC	0	-	0	0	-	0	0	-	0	0	21.87 kVA	0 A	26.3 A	30 A	30 A	No	1,3,5	3#10 & 1#10 EGC IN 3/4" C.	0 A	0 A	MFR		MFR		
DOAS-8FL		480 V, 3Ø	HVAC	0	-	0	0	-	0	0	-	0	0	48.72 kVA	0 A	58.6 A	80 A	80 A	No	2,4,6	3#4 & 1#8 EGC IN 1" C.	0 A	0 A	MFR		MFR		
ERV-1FL		480 V, 3Ø	HVAC	2	@	7.5	0	-	0	0	-	0	0	18.29 kVA	22 A	24.8 A	35 A	35 A	No	8,10,12	3#10 & 1#10 EGC IN 3/4" C.	0 A	0 A	MFR		MFR		
RTU-3FL		480 V, 3Ø	HVAC	2	@	10	0	-	0	0	-	0	0	18.29 kVA	22 A	20 A	0 A	25 A	No	7,9,11	3#12 & 1#10 EGC IN 3/4" C.	0 A	0 A	MFR	F		FV	
FMS-MHD																												
DOAS-5FL		480 V, 3Ø	HVAC	0	-	0	0	-	0	0	-	0	0	22.03 kVA	0 A	26.5 A	30 A	30 A	No	1,3,5	3#10 & 1#10 EGC IN 3/4" C.	0 A	0 A	MFR		MFR		
DOAS-6FL		480 V, 3Ø	HVAC	0	-	0	0	-	0	0	-	0	0	29.76 kVA	0 A	35.8 A	45 A	45 A	No	2,4,6	3#8 & 1#10 EGC IN 3/4" C.	0 A	0 A	MFR		MFR		
FMS-SBHA-DIST																												
CHLR-1FL		480 V, 3Ø	HVAC Cooling Only	0	-	0	0	-	0	0	-	0	0	382.10 kVA	459.6 A	518 A	700 A	700 A	No	6	(2) SETS OF 3#300 & 1#1/0 EGC EACH IN 2 1/2" C.	18,159 A	0 A	E.C.	NF	MFR	FV	

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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: **21002885.03**
Drawn: **JERVET**
Checked: **BRILEA**
Approved: **JERVET**

SHEET TITLE

ELECTRICAL SCHEDULES

SCALE

Scale:

SHEET NUMBER

E601

LED LUMINAIRE SCHEDULE

(DESC) DOOR:	**DISTRIBUTION:**	**BEAMWIDTH:**	**(L/L) LENS/LOUVER:** K19 - KSH19 .156" ACRYLIC
FA - FLAT ALUMINUM	II - ANSI/IES TYPE 2 DISTRIBUTION	NSP - VERY NARROW SPOT	A - .125" ACRYLIC M - MATTE DIFFUSE CLEAR
FS - FLAT STEEL	III - ANSI/IES TYPE 3 DISTRIBUTION	SP - SPOT	B - BAFFLE/LOUVER N - NONE
RA - REGRESSED ALUMINUM	IV - ANSI/IES TYPE 4 DISTRIBUTION	MD - MEDIUM	C - CLEAR ALZAK P - POLYCARBONATE
RS - REGRESSED STEEL	V - ANSI/IES TYPE 5 DISTRIBUTION	WD - WIDE	F - FROSTED ACRYLIC R - HIGH IMPACT DR ACRYLIC
FINISH:		VWD - VERY WIDE	G - TEMPERED GLASS SS - SEMI-SPECULAR CLEAR
PAF - PAINT AFTER FABRICATION		WW - WALL WASH	K - KSH12 .125" ACRYLIC O - OTHER (SEE DESCRIPTION)
CFSA - COLOR-FINISH SELECTION BY ARCHITECT			[DESIGN SPECIFIC BLANKS]
(MTG) MOUNTING:	RE - RECESSED		**(WATT) PER:** FIX - FIXTURE, FT - FOOT, LAMP
CL - CEILING SURFACE	SP - SUSPENDED		**(TYPE) LED** RGB - COLOR CHANGING LED
CV - COVE	SU - SURFACE		LED - LIGHT EMITTING DIODE RGBW - COLOR CHANGING + WHITE
FR - FLANGED RECESSED	UC - UNDER CABINET		TLED - TUBULAR LED LAMP RGBA - COLOR CHANGING + AMBER
P - PERIMETER	WL - WALL		OLED - ORGANIC LED RLED - RETROFIT LED
PL - POLE	O - OTHER (SEE DESCRIPTION)		DLED - DYNAMIC TUNABLE LED WLED - WARM DIM 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 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.

				DIMENSIONS				WATT		LED			DRIVER		
ITEM	DESCRIPTION	L/L	MTG	L	W	H	DIA.	ANSI WATTS	PER	TYPE	QTY	DELIVERED LUMENS (MIN)	VOLTS	TYPE	MANUFACTURER AND MODEL
F1	WRAPAROUND VOLUMETRIC FIXTURE	O	CL	4'-0"	4"	10"		35 W	FIX	LED	1	4000	120 V	0-10V	ACUITY LITHONIA STL4
F2	WRAPAROUND VOLUMETRIC FIXTURE	O	CL	2'-0"	4"	10"		39 W	FIX	LED	1	4000	120 V	0-10V	ACUITY LITHONIA STL2
F3	NATATORIUM-RATED INDIRECT ASYMMETRIC PENDANT, EXTRUDED ALUMINUM CONSTRUCTION WITH STAINLESS STEEL HARDWARE, TOP GASKETED CLEAR LENS ASSEMBLY, SINGLE PENDANT MOUNT, WHITE, OPERABLE IN -20 DEGREES CELSIUS TO 40 DEGREES CELSIUS, NATATORIUM RATED.	O	SP	2'-7 3/4"			0"	158 W	FIX	LED	1	16400	120 V	0-10V	COOPER AMETRIX ASYX
F4	LED LENSED STRIP LIGHT, DIE-FORMED COLD-ROLLED STEEL HOUSING, ROUND SEMI-FROST LENS. PAF. EMERGENCY BATTERY	O	CL	4'-0"	2 3/4"	2 3/4"		35 W	FIX	LED	1	NORMAL: 4500 EMERGENCY: 1400	120 V	0-10V EM	ACUITY LITHONIA ZL1D COOPER METALUX SNLED H.E. WILLIAMS 75 LED SERIES LSI SDL
F5	DIRECT LED WITH HIGH ANGLE ILLUMINANCE, RIBBED CURVED MATTE ACRYLIC DIFFUSER. WHITE FINISH.	A	RE	4'-0"	2'-0"	5 1/4"		38 W	FIX	LED	1	4800	120 V	0-10V	ACUITY LITHONIA 2BLT4
F6	DIRECT LED WITH HIGH ANGLE ILLUMINANCE, RIBBED CURVED MATTE ACRYLIC DIFFUSER. WHITE FINISH.	A	RE	2'-0"	2'-0"	5 1/4"		17 W	FIX	LED	1	2000	120 V	0-10V	ACUITY LITHONIA 2BLT2
F6E	SIMILAR TO F6 W/ EMERGENCY BATTERY	A	RE	2'-0"	2'-0"	5 1/4"		17 W	FIX	LED	1	NORMAL: 2000 EMERGENCY: 1400	120 V	0-10V	REFER TO F6
F7	NATATORIUM-RATED SURFACE LINEAR, ALUMINUM CONSTRUCTION, RIGID DIFFUSE LENS, OPERABLE IN -20 DEGREES CELSIUS TO 50 DEGREES CELSIUS, WHITE. EMERGENCY BATTERY.	O	CL	4'-0"	3 1/2"	2 1/2"		6 W	FT	LED	1	500	120 V	0-10V EM	AXIS WET BEAM WBSLED
S1	WALL PACK, GLASS LENS, DIE-CAST ALUMINUM HOUSING, GASKETED, VISUAL COMFORT FORWARD THROW DISTRIBUTION. ZERO UPLIGHT, IP65 RATED, SUITABLE FOR OPERATION IN TEMPERATURES BETWEEN -30 DEGREE CELSIUS AND 40 DEGREE CELSIUS, FINISH SELECTION BY ARCHITECT. INTEGRAL PHOTOCELL.	G	WL	1'-4"	10"	10 1/2"		11 W	FIX	LED	1	NORMAL: 1500 EMERGENCY: 1400	120 V	MV EM	ACUITY LITHONIA WST LED CREE XSPW SERIES SIGNIFY GARDCO 101L RAYON T632LED

LIGHTING SEQUENCE OF OPERATION

NOTES:
1. {L##} DENOTES THE LIGHTING SEQUENCE OF OPERATIONS FOR THIS SPACE.
2. a = SWITCH DESIGNATION FOR LIGHTING CONTROL
3. VERIFY AND COORDINATE ALL PUSH BUTTON WALL DEVICES AND QUANTITIES OF INDIVIDUAL BUTTONS WITH SCENES AND ZONES PER LOCATION.

PLAN ID	LIGHTING SWITCHED
{LD1}	Sequence: Dimmed fixtures are controlled in this space. ON: Fixtures turn on to 50% upon occupancy or via wall dimmer. ADJUST: Fixtures are raised/lowered via wall dimmer. OFF: Fixtures turn off via wall dimmer or after the space has been vacant for 15 minutes.
{LS1}	Sequence: Switched fixtures are controlled in the space. ON: Fixtures turn on via wall switch. OFF: Fixtures turn off via wall switch. EMERGENCY: Upon loss of normal power fixtures with emergency batteries turn on.
{LS2}	Sequence: Switched fixtures are occupancy controlled in the space. ON: Fixtures turn on upon occupancy. OFF: Fixtures turn off after the space has been vacant for 15 minutes. EMERGENCY: Upon loss of normal power fixtures with emergency batteries turn on.

ELECTRICAL DISTRIBUTION SCHEDULE

				FEEDER										
ITEM	VOLTAGE	MAINS RATING / XFMR RATING	FROM	UPSTREAM OCPD OR TERMINATION	WIRE AND RACEWAY	CONNECTED LOAD	ESTIMATED DEMAND LOAD	CONNECTED CURRENT	ESTIMATED DEMAND CURRENT	ESTIMATED ISC	SCCR	LEVEL	LOCATION	COMMENTS
PANELBOARD(S)														
FMS-BMHA	480/277V, 3Ø4W	200 A MLO	FMS-SBHA-DIST	200 A CB	4#3/0 & 1#6 EGC IN 2" C.	148.65 kVA	81.31 kVA	178.8 A	97.8 A	14.48 kA	18 kA	LEVEL 00		
FMS-MHA	480/277V, 3Ø4W	600 A MLO	FMS-SBHA-DIST	600 A MCCB	(2) SETS OF 4#350 & 1#1 EGC EACH IN 2 1/2" C.	295.39 kVA	295.39 kVA	355.3 A	355.3 A	13.56 kA	18 kA	LEVEL 02		
FMS-MHC	480/277V, 3Ø4W	200 A MCB	FMS-SBHA-DIST	200 A CB	4#350 & 1#2 EGC IN 2 1/2" C.	109.08 kVA	109.08 kVA	131.2 A	131.2 A	6.53 kA	10 kA	LEVEL 02		
FMS-MHD	480/277V, 3Ø4W	100 A MCB	FMS-SBHA-DIST	100 A CB	4#1 & 1#8 EGC IN 1 1/2" C.	51.8 kVA	51.80 kVA	62.3 A	62.3 A	4.20 kA	10 kA	LEVEL 01		
FMS-MLA	120/208V, 3Ø4W	200 A MCB	LMDP1	200 A CB	4#250 & 1#4 EGC IN 2 1/2" C.	32.16 kVA	32.16 kVA	89.3 A	89.3 A	0.00 kA	10 kA	LEVEL 02		
FMS-MLB1	120/208V, 3Ø4W	200 A MLO	LMDP2	200 A CB	4#3/0 & 1#6 EGC IN 2" C.	27.41 kVA	27.41 kVA	76.1 A	76.1 A	0.00 kA	10 kA	LEVEL 00		
FMS-MLB2	120/208V, 3Ø4W	225 A MCB	LMDP1	225 A CB	(2) SETS OF 4#250 & 1#1/0 EGC EACH IN 2 1/2" C.	33.64 kVA	33.64 kVA	93.4 A	93.4 A	0.00 kA	10 kA	LEVEL 00		
FMS-MLC	120/208V, 3Ø4W	200 A MCB	2MDP1	200 A CB	4#3/0 & 1#6 EGC IN 2" C.	33.85 kVA	33.85 kVA	94 A	94 A	0.00 kA	10 kA	LEVEL 01		
FMS-MLD	120/208V, 3Ø4W	200 A MLO	IMDP1	200 A CB	4#3/0 & 1#6 EGC IN 2" C.	42.3 kVA	40.98 kVA	117.4 A	113.7 A	0.00 kA	10 kA	LEVEL 01		
SWITCHBOARD(S)														
FMS-SBHA	480/277V, 3Ø4W	1,600 A LSIG	DTR-1	1,600 A XFMR LUGS	(4) SETS OF 4#750 EACH IN 4" C.	987.02 kVA	913.94 kVA	1,187.2 A	1,099.3 A	19.73 kA	35 kA	LEVEL 01		
TRANSFORMER(S)-UTILITY														
DTR-1	4160:480/277V, 3Ø4W	1000 kVA				987.02 kVA	913.94 kVA	1,187.2 A	1,099.3 A	47.11 kA PRIMARY, 20.48 kA SECONDARY		LEVEL 01		

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

					PRIMARY		SECONDARY			
ITEM	KVA RATING	TYPE	ENCLOSURE	MAX. TEMP. RISE C.	VOLTS	PH	VOLTS	PH	REQUIRED ACCESSORIES & OPTIONS	COMMENTS
DTR-1	1000 kVA	LIQ	NEMA 3R	60	4160	3	480	3	AL	

DISCONNECT AND STARTER SCHEDULE

NOTE: ALL DISCONNECTS (EXCEPT MANUAL STARTERS) SHALL BE HEAVY DUTY TYPE.

DISCONNECT TYPE:	ACCESSORIES & OPTIONS	
FU - FUSED	SA - STANDARD ACCESSORIES (INCLUDES * ITEMS)	PF - PHASE LOSS PROTECTION (5 HP OR GREATER, 3 PHASE...
NF - NON-FUSED	*CT - CONTROL TRANSFORMER, FUSED 120V	TO - MELTING THERMAL OVERLOADS (1 PHASE)
CB - CIRCUIT BREAKER	*EO - ELECTRONIC OVERLOAD (3 PHASE MOTORS)	TS - 2 SPEED SELECTOR SWITCH IN DOOR
	*HA - HAND-OFF-AUTO IN DOOR	GP - GREEN (OFF) PILOT LIGHT IN DOOR
STARTER TYPE:	*RP - RED (RUN) PILOT LIGHT IN DOOR	FA - 4-CONVERTIBLE AUXILIARY CONTACTS
FV - FULL VOLTAGE	*TA - TWO CONVERTIBLE AUXILIARY CONTACTS	EI - ELECTRICAL INTERLOCK (2)-N.O. & (2)-N.C.
YD - WYE - DELTA	S/N - INSULATED NEUTRAL ASSEMBLY	SS - START-STOP PUSHBUTTON IN DOOR
RE - REVERSING		HL - HANDLE PADLOCK HASP
TW - 2 SPEED, 2 WINDING		
SW - 2 SPEED, 1 WINDING		
RV - REDUCED VOLTAGE AUTOXFMR		
SS - SOLID STATE		
MS - MANUAL STARTER		
MX - MANUAL SWITCH		
FS - FUSED SWITCH		

	DISCONNECT TYPE & RATING				STARTER				
ITEM	TYPE	RATING	CIRCUIT VOLTAGE	POLES	NEMA SIZE	TYPE	ENCLOSURE	REQUIRED ACCESSORIES & OPTIONS	COMMENTS
MS-CPDOAS-4		16 A	277 V	1	0	MS	NEMA 1	RP,TO,HL	
MS-CPRTU-2		16 A	277 V	1	0	MS	NEMA 1	RP,TO,HL	
MS-CPRTU-3		16 A	277 V	1	0	MS	NEMA 1	RP,TO,HL	
FCS-CWP-1 FL	FU	60 A	480 V	3	2	FV	NEMA 1	SA	
FCS-CWP-2 FL	FU	60 A	480 V	3	2	FV	NEMA 1	SA	
FCS-HWP-1 FL	FU	60 A	480 V	3	2	FV	NEMA 1	SA	
FCS-HWP-2 FL	FU	60 A	480 V	3	2	FV	NEMA 1	SA	
FDS-DOAS-4FL	FU	100 A	480 V	3			NEMA 1	FUSED AT 80 AMPS	
DS-SS-120.1	NF	30 A	480 V	3			NEMA 3R		
DS-SS-123.1	NF	30 A	480 V	3			NEMA 3R		
DS-MAU-1FL	NF	100 A	480 V	3			NEMA 3R		
DS-CHLR-1FL	NF	800 A	480 V	3			NEMA 3R		

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Rockford Public Schools #205

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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	**21002885.03**
Drawn	**JERVET**
Checked	**BRILEA**
Approved	**JERVET**

SHEET TITLE
ELECTRICAL SCHEDULES

SCALE
Scale:

SHEET NUMBER
E602

SWITCHBOARD FMS-SBHA

ENCLOSURE: NEMA 1
FED FROM: 1,600 A/3P XFMR LUGS @ DTR-1
LOCATION:
SPD: SPD-1
METER: DPM

SOLID NEUTRAL
GROUND BUS

VOLTS: 480/277 Wye
PHASE: 3
WIRE 4
SCCR: 35 kA
ISC: 19,727 A

NOTES:

MAIN OCPD

POLES	FRAME	TRIP	TYPE	ACCESSORIES
3	1,600 A	1,600 A	LSIG	AER, 100% RATED

DISTRIBUTION SUMMARY	CONNECTED LOAD
FMS-SBHA-DIST	987.02 kVA

LOAD SUMMARY (INCLUDES ALL SECTIONS OF THIS SWITCHBOARD)

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	TOTALS*	
HVAC	509.389 kVA	100.00%	509.389 kVA		
HVAC Cooling Only	404.552 kVA	100.00%	404.552 kVA	TOTAL CONNECTED LOAD:	987.02 kVA
HVAC Heating Only	28.181 kVA	100.00%	28.181 kVA	TOTAL ESTIMATED DEMAND LOAD:	913.941 kVA
Power	0 kVA	0.00%	0 kVA	TOTAL CONNECTED AMPS:	1187.20 A
Redundant	44.895 kVA	100.00%	44.895 kVA	TOTAL ESTIMATED DEMAND AMPS:	1,099.3 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:

FMS-SBHA-DIST

CKT	LOAD DESCRIPTION	Load	POLES	FRAME	TRIP	TYPE	ACC.	WIRE AND RACEWAY	CIRCUIT KEY
1	SPD-1	0 kVA	3	150 A	60 A	CB		4#6 & 1#10 EGC IN 1" C.	
2	FMS-BMHA	148.65...	3	250 A	200 A	MCCB		4#3/0 & 1#6 EGC IN 2" C.	
3	FMS-MHA	295.39...	3	600 A	600 A	MCCB		(2) SETS OF 4#350 & 1#1 EGC EACH IN 2 1/2" C.	
4	FMS-MHC	109.08...	3	250 A	200 A	MCCB		4#350 & 1#2 EGC IN 2 1/2" C.	
5	FMS-MHD	51.8 kVA	3	150 A	100 A	MCCB		4#1 & 1#8 EGC IN 1 1/2" C.	
6	HVAC Cooling Only; CHLR-1FL	382.1 kVA	3	700 A	700 A	MCCB		(2) SETS OF 3#300 & 1#1/0 EGC EACH IN 2 1/2"...	
7	SPACE	0 kVA	--	--	--	--	--	--	--
8	SPACE	0 kVA	--	--	--	--	--	--	--

PANEL FMS-BMHA

MOUNTING: SURFACE
ENCLOSURE: NEMA PB 1
FED FROM: 200 A/3P CB @ FMS-SBHA-DIST
LOCATION:

SOLID NEUTRAL
GROUND BUS

MAIN: 200 A MLO
VOLTS: 480/277 Wye
PHASE: 3
WIRE: 4
SCCR: 18 kA
ISC: 14.48 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 Heating Only; HWP-1FL	50 A	3	8	8	10	7.48	7.48					10	8	8	3	50 A	Redundant; HWP-2FL	2	
--	3	--	--	--	--	--	--			7.48	7.48			--	--	--	--	--	--	4	--
--	5	--	--	--	--	--	--					7.48	7.48	--	--	--	--	--	--	6	--
	7	HVAC Cooling Only; CWP-1FL	50 A	3	8	8	10	7.48	7.48					10	8	8	3	50 A	Redundant; CWP-2FL	8	
--	9	--	--	--	--	--	--			7.48	7.48			--	--	--	--	--	--	10	--
--	11	--	--	--	--	--	--					7.48	7.48	--	--	--	--	--	--	12	--
	13	HVAC; DOAS-4L	80 A	3	4	4	8	18.98	1.91					10	10	10	1	15 A	HVAC Heating Only; CPDOAS-4	14	
--	15	--	--	--	--	--	--			18.98	0			--	--	--	--	--	SPACE	16	--
--	17	--	--	--	--	--	--					18.98	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	--
								Total Load:		50.82 kVA		48.91 kVA		48.91 kVA							
								Total Amps:		183.48		176.58		176.58							

LOAD SUMMARY

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	TOTALS*	
HVAC	56.95 kVA	100.00%	56.95 kVA		
HVAC Cooling Only	22.447 kVA	100.00%	22.447 kVA	TOTAL CONNECTED LOAD:	148.65 kVA
HVAC Heating Only	24.359 kVA	100.00%	24.359 kVA	TOTAL ESTIMATED DEMAND LOAD:	81.309 kVA
Redundant	44.895 kVA	100.00%	44.895 kVA	TOTAL CONNECTED AMPS:	178.80 A
				TOTAL ESTIMATED DEMAND AMPS:	97.8 A

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

CIRCUIT KEY NOTES:

PANEL FMS-MHA

MOUNTING: SURFACE
ENCLOSURE: NEMA PB 1
FED FROM: 600 A/3P MCCB @ FMS-SBHA-DIST
LOCATION:

SOLID NEUTRAL
GROUND BUS

MAIN: 600 A MLO
VOLTS: 480/277 Wye
PHASE: 3
WIRE: 4
SCCR: 18 kA
ISC: 13.56 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; DOAS-2FL	90 A	3	4	4	8	17.02	11.28					10	6	6	3	60 A	HVAC; DOAS-1FL	2	
--	3	--	--	--	--	--	--			17.02	11.28			--	--	--	--	--	--	4	--
--	5	--	--	--	--	--	--					17.02	11.28	--	--	--	--	--	--	6	--
	7	HVAC; RTU-1	125 A	3	2	2	6	28.43	7.34					10	10	10	3	30 A	HVAC; DOAS-3FL	8	
--	9	--	--	--	--	--	--			28.43	7.34			--	--	--	--	--	--	10	--
--	11	--	--	--	--	--	--					28.43	7.34	--	--	--	--	--	--	12	--
	13	HVAC; RTU-2FL SUPPLY	40 A	3	8	8	10	7.76	6.1					10	10	10	3	35 A	HVAC; RTU-2FL RETURN	14	
--	15	--	--	--	--	--	--			7.76	6.1			--	--	--	--	--	--	16	--
--	17	--	--	--	--	--	--					7.76	6.1	--	--	--	--	--	--	18	--
	19	HVAC; MAU-1	80 A	3	3	3	8	19.9	1.91					12	12	12	1	15 A	HVAC Heating Only	20	
--	21	--	--	--	--	--	--			19.9	0			--	--	--	--	--	SPACE	22	--
--	23	--	--	--	--	--	--					19.9	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:		99.74 kVA		97.83 kVA		97.83 kVA							
								Total Amps:		360.06		353.16		353.16							

LOAD SUMMARY

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	TOTALS*	
HVAC	293.479 kVA	100.00%	293.479 kVA		
HVAC Heating Only	1.911 kVA	100.00%	1.911 kVA	TOTAL CONNECTED LOAD:	295.39 kVA
				TOTAL ESTIMATED DEMAND LOAD:	295.39 kVA
				TOTAL CONNECTED AMPS:	355.30 A
				TOTAL ESTIMATED DEMAND AMPS:	355.3 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 FMS-MHC

MOUNTING: SURFACE
ENCLOSURE: NEMA PB 1
FED FROM: 200 A/3P CB @ FMS-SBHA-DIST
LOCATION:

SOLID NEUTRAL
GROUND BUS

MAIN: 200 A MCB
VOLTS: 480/277 Wye
PHASE: 3
WIRE: 4
SCCR: 10 kA
ISC: 6.53 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; DOAS-7FL	30 A	3	10	10	10	7.29	16.24					8	4	4	3	80 A	HVAC; DOAS-8FL	2	
--	3	--	--	--	--	--	--			7.29	16.24			--	--	--	--	--	--	4	--
--	5	--	--	--	--	--	--					7.29	16.24	--	--	--	--	--	--	6	--
	7	HVAC; RTU-3FL	25 A	3	12	12	10	6.1	6.1					10	10	10	3	35 A	HVAC; ERV-1FL	8	
--	9	--	--	--	--	--	--			6.1	6.1			--	--	--	--	--	--	10	--
--	11	--	--	--	--	--	--					6.1	6.1	--	--	--	--	--	--	12	--
	13	HVAC Heating Only; CPRTU-3	15 A	1	12	12	12	1.91	0					--	--	--	--	--	SPACE	14	--
--	15	SPACE	--	--	--	--	--			0	0			--	--	--	--	--	SPACE	16	--
--	17	SPACE	--	--	--	--	--					0	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	--
								Total Load:		37.63 kVA		35.72 kVA		35.72 kVA							
								Total Amps:		135.86		128.96		128.96							

LOAD SUMMARY

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	TOTALS*	
HVAC	107.165 kVA	100.00%	107.165 kVA		
HVAC Heating Only	1.911 kVA	100.00%	1.911 kVA	TOTAL CONNECTED LOAD:	109.08 kVA
				TOTAL ESTIMATED DEMAND LOAD:	109.077 kVA
				TOTAL CONNECTED AMPS:	131.20 A
				TOTAL ESTIMATED DEMAND AMPS:	131.2 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 FMS-MHD

MOUNTING: SURFACE
ENCLOSURE: NEMA PB 1
FED FROM: 100 A/3P CB @ FMS-SBHA-DIST
LOCATION:

SOLID NEUTRAL
GROUND BUS

MAIN: 100 A MCB
VOLTS: 480/277 Wye
PHASE: 3
WIRE: 4
SCCR: 10 kA
ISC: 4.20 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; DOAS-5FL	30 A	3	10	10	10	7.34	9.92					10	8	8	3	45 A	HVAC; DOAS-6FL	2	
--	3	--	--	--	--	--	--			7.34	9.92			--	--	--	--	--	--	4	--
--	5	--	--	--	--	--	--					7.34	9.92	--	--	--	--	--	--	6	--
	7																			8	
	9																			10	
	11																			12	
	13																			14	
	15																			16	
	17																			18	
	19																			20	
	21																			22	
	23																			24	
	25																			26	
	27																			28	
	29																			30	
	31																			32	
	33																			34	
	35																			36	
	37																			38	
	39																			40	
	41																			42	
								Total Load:		17.27 kVA		17.27 kVA		17.27 kVA							
								Total Amps:		62.33		62.33		62.33							

LOAD SUMMARY

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	TOTALS*	
HVAC	51.795 kVA	100.00%	51.795 kVA		
				TOTAL CONNECTED LOAD:	51.80 kVA
				TOTAL ESTIMATED DEMAND LOAD:	51.795 kVA
				TOTAL CONNECTED AMPS:	62.30 A
				TOTAL ESTIMATED DEMAND AMPS:	62.3 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 BR

MOUNTING: SURFACE
ENCLOSURE: NEMA PB 1
FED FROM: 200 A/3P CB @ LMDP1
LOCATION:

SOLID NEUTRAL
GROUND BUS

MAIN: 200 A MLO
VOLTS: 120/208 Wye
PHASE: 3
WIRE: 4
SCCR: 10 kA
ISC UNKNOWN 0.00 kA

NOTES: EXISTING CHICAGO SWITCHBOARD PANEL. EXISTING BREAKERS ARE SQUARE D.

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	20 A	1	--	--	--	0	0					--	--	--	1	20 A	EXISTING	2	--
--	3	EXISTING	20 A	1	--	--	--			0	0			--	--	--	1	20 A	EXISTING	4	--
--	5	EXISTING	20 A	1	--	--	--					0	0	--	--	--	1	20 A	EXISTING	6	--
--	7	EXISTING	20 A	1	--	--	--	0	0					--	--	--	1	20 A	EXISTING	8	--
--	9	EXISTING	20 A	1	--	--	--			0	0			--	--	--	1	20 A	EXISTING	10	--
--	11	EXISTING	20 A	1	--	--	--					0	0	--	--	--	1	20 A	EXISTING	12	--
--	13	EXISTING	20 A	1	--	--	--	0	0					--	--	--	1	20 A	EXISTING	14	--
--	15	EXISTING	20 A	1	--	--	--			0	0			--	--	--	1	20 A	EXISTING	16	--
--	17	EXISTING	20 A	1	--	--	--					0	0	--	--	--	1	20 A	EXISTING	18	--
--	19	EXISTING	20 A	1	--	--	--	0	0					--	--	--	1	20 A	EXISTING	20	--
--	21	EXISTING	20 A	1	--	--	--			0	0			--	--	--	1	20 A	EXISTING	22	--
--	23	EXISTING	20 A	1	--	--	--					0	0	--	--	--	1	20 A	EXISTING	24	--
--	25	EXISTING	20 A	1	--	--	--	0	0					--	--	--	1	20 A	EXISTING	26	--
--	27	EXISTING	70 A	3	--	--	--			0	0			--	--	--	3	30 A	EXISTING	28	--
--	29	--	--	--	--	--	--					0	0	--	--	--	--	--	--	30	--
--	31	--	--	--	--	--	--	0	0					--	--	--	--	--	--	32	--
--	33	EXISTING	50 A	3	--	--	--			0	0			--	--	--	3	15 A	EXISTING	34	--
--	35	--	--	--	--	--	--					0	0	--	--	--	--	--	--	36	--
--	37	--	--	--	--	--	--	0	0					--	--	--	--	--	--	38	--
*N	39	Receptacles	20 A	1						0.54	0						1	20 A	HVAC Heating Only; UH-144.3	40	*N
--	41	SPACE	--	--	--	--	--					0	0	--	--	--	--	--	SPACE	42	--
								Total Load:		0.00 kVA		0.54 kVA		0.00 kVA							
								Total Amps:		0.00		4.50		0.00							

LOAD SUMMARY

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	TOTALS*	
HVAC Heating Only	0 kVA	0.00%	0 kVA		
Receptacles	0.54 kVA	100.00%	0.54 kVA	TOTAL CONNECTED LOAD:	0.54 kVA
				TOTAL ESTIMATED DEMAND LOAD:	0.54 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: *N = NEW BREAKER IN EXISTING PANEL.

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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	21002885.03
Drawn	JERVET
Checked	BRILEA
Approved	JERVET

SHEET TITLE
PANEL SCHEDULES

SCALE
Scale:

SHEET NUMBER
E700

EXISTING SWITCHBOARD LMDP1

ENCLOSURE: NEMA 1
FED FROM: 1,200 A/3P XFMR LUGS @ TR-1
LOCATION:

SOLID NEUTRAL GROUND BUS

MAIN: 1,200 A MLO
VOLTS: 120/208 Wye
PHASE: 3
WIRE: 4
SCCR: 25 kA
ISC UNKNOWN 0 A

NOTES:

CKT	LOAD DESCRIPTION	Load	POLES	FRAME	TRIP	TYPE	ACC.	WIRE AND RACEWAY	CIRCUIT NOTES
1	FMS-MLA	32.16 kVA	3	250 A	200 A	CB		4#250 & 1#4 EGC IN 2 1/2" C.	1
2	REC PUMP	0 kVA	3	--	30 A	--	--	--	
3	FMS-MLB2	33.64 kVA	3	250 A	225 A	CB		(2) SETS OF 4#250 & 1#1/0 EGC EACH IN 2 1/...	1
4	POOL PUMP	0 kVA	3	--	50 A	--	--	--	
5	MAIN BREAKER	0 kVA	3	--	1,200 A	--	--	--	
6	SPACE	0 kVA	--	--	--	--	--	--	--
7	SPACE	0 kVA	--	--	--	--	--	--	--
8	SPACE	0 kVA	--	--	--	--	--	--	--
9	BR	0.54 kVA	3	250 A	200 A	CB			
10	EC	0 kVA	3	--	70 A	--	--	--	
11	SPACE	0 kVA	--	--	--	--	--	--	--
12	BHV-L & BHV-R	8.24 kVA	3	250 A	225 A	CB			
13	SPACE	0 kVA	--	--	--	--	--	--	--
14	SPACE	0 kVA	--	--	--	--	--	--	--
15	SPACE	0 kVA	--	--	--	--	--	--	--
16	FC	0 kVA	3	150 A	100 A	CB			
17	EF	0 kVA	3	250 A	175 A	CB			
18	BR/1A	0 kVA	3	150 A	100 A	CB			
19	EBG	0 kVA	3	150 A	100 A	CB			
20	EM	0 kVA	3	--	200 A	--	--	--	
21	EA & EAG	0 kVA	3	150 A	125 A	CB			
22	DA	0 kVA	3	--	100 A	--	--	--	
23	DC	0 kVA	3	150 A	100 A	CB			
24	DD	0 kVA	3	150 A	100 A	CB			
25	BMEQ	0 kVA	3	250 A	200 A	CB			
26	DBL & DBR	1.02 kVA	3	250 A	225 A	CB			
27	SPACE	0 kVA	--	--	--	--	--	--	--

LOAD SUMMARY (INCLUDES ALL TUBS IN THIS PANEL)

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	TOTALS*	
HVAC	71.363 kVA	100.00%	71.363 kVA		
HVAC Heating Only	2.616 kVA	100.00%	2.616 kVA	**TOTAL CONNECTED LOAD:**	75.60 kVA
Receptacles	1.62 kVA	100.00%	1.62 kVA	**TOTAL ESTIMATED DEMAND LOAD:**	75.599 kVA
				TOTAL CONNECTED AMPS:	209.84 A
				TOTAL ESTIMATED DEMAND AMPS:	209.8 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. NEW BREAKER IN EXISTING SWITCHBOARD.

EXISTING SWITCHBOARD LMDP2

ENCLOSURE: NEMA 1
FED FROM: 500 A/3P XFMR LUGS @ TR-2
LOCATION:

SOLID NEUTRAL GROUND BUS

MAIN: 600 A MLO
VOLTS: 120/208 Wye
PHASE: 3
WIRE: 4
SCCR: 26 kA
ISC UNKNOWN 0 A

NOTES:

CKT	LOAD DESCRIPTION	Load	POLES	FRAME	TRIP	TYPE	ACC.	WIRE AND RACEWAY	CIRCUIT NOTES
1	SPACE	0 kVA	--	--	--	--	--	--	
2	FMS-MLB1	27.41 kVA	3	250 A	200 A	CB		4#3/0 & 1#6 EGC IN 2" C.	1
3	SPACE	0 kVA	--	--	--	--	--	--	--
4	SPACE	0 kVA	--	--	--	--	--	--	--
5	MAIN BREAKER	0 kVA	3	--	600 A	--	--	--	
6	SPACE	0 kVA	--	--	--	--	--	--	--
7	SPACE	0 kVA	--	--	--	--	--	--	--
8	CF	0 kVA	3	250 A	175 A	CB			
9	CB	0 kVA	3	150 A	70 A	CB			
10	CD	0 kVA	3	150 A	70 A	CB			
11	HC	0.53 kVA	3	60 A	30 A	CB			
12	SPARE	0 kVA	3	--	30 A	--	--	--	
13	SPACE	0 kVA	--	--	--	--	--	--	--
14	SPACE	0 kVA	--	--	--	--	--	--	--
15	SPACE	0 kVA	--	--	--	--	--	--	--
16	CA	0 kVA	3	150 A	70 A	CB			
17	CC	0 kVA	3	150 A	70 A	CB			
18	AC	0 kVA	3	200 A	200 A	CB			
19	ELEVATOR	0 kVA	3	--	100 A	--	--	--	
20	SPACE	0 kVA	--	--	--	--	--	--	--
21	SPACE	0 kVA	--	--	--	--	--	--	--
22	SPACE	0 kVA	--	--	--	--	--	--	--
23	SPACE	0 kVA	--	--	--	--	--	--	--
24	SPACE	0 kVA	--	--	--	--	--	--	--
25	SPACE	0 kVA	--	--	--	--	--	--	--
26	SPACE	0 kVA	--	--	--	--	--	--	--
27	SPACE	0 kVA	--	--	--	--	--	--	--
28	SPACE	0 kVA	--	--	--	--	--	--	--

LOAD SUMMARY (INCLUDES ALL TUBS IN THIS PANEL)

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	TOTALS*	
HVAC	27.408 kVA	100.00%	27.408 kVA		
HVAC Heating Only	0.528 kVA	100.00%	0.528 kVA	**TOTAL CONNECTED LOAD:**	27.94 kVA
				TOTAL ESTIMATED DEMAND LOAD:	27.936 kVA
				TOTAL CONNECTED AMPS:	77.54 A
				TOTAL ESTIMATED DEMAND AMPS:	77.5 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: 1. NEW BREAKER IN EXISTING SWITCHGEAR.

EXISTING SWITCHBOARD IMDP1

ENCLOSURE: NEMA 1
FED FROM: 1,200 A/3P XFMR LUGS @ TR-3
LOCATION:

SOLID NEUTRAL GROUND BUS

MAIN: 1,200 A
VOLTS: 120/208 Wye
PHASE: 3
WIRE: 4
SCCR: 25 kA
ISC UNKNOWN 0 A

NOTES:

CKT	LOAD DESCRIPTION	Load	POLES	FRAME	TRIP	TYPE	ACC.	WIRE AND RACEWAY	CIRCUIT NOTES
1	FMS-MLD	42.3 kVA	3	250 A	200 A	CB		4#3/0 & 1#6 EGC IN 2" C.	1
2	SPACE	0 kVA	--	--	--	--	--	--	--
3	SPACE	0 kVA	--	--	--	--	--	--	--
4	SPACE	0 kVA	--	--	--	--	--	--	--
5	SPACE	0 kVA	--	--	--	--	--	--	--
6	CRHV-A	0 kVA	3	150 A	150 A	CB			
7	AE	0 kVA	3	150 A	125 A	CB			
8	AD	0 kVA	3	150 A	70 A	CB			
9	SPARE	0 kVA	3	--	30 A	--	--	--	
10	SPARE	0 kVA	3	--	30 A	--	--	--	
11	SPACE	0 kVA	--	--	--	--	--	--	--
12	SPACE	0 kVA	--	--	--	--	--	--	--
13	SPACE	0 kVA	--	--	--	--	--	--	--
14	GW	0 kVA	3	250 A	175 A	CB			
15	GS	0 kVA	3	250 A	175 A	CB			
16	SPACE	0 kVA	--	--	--	--	--	--	--
17	SPACE	0 kVA	--	--	--	--	--	--	--
18	SPACE	0 kVA	--	--	--	--	--	--	--
19	SPACE	0 kVA	--	--	--	--	--	--	--
20	MAIN BREAKER	0 kVA	3	--	1,200 A	--	--	--	
21	SPACE	0 kVA	--	--	--	--	--	--	--
22	SPACE	0 kVA	--	--	--	--	--	--	--
23	AC	0 kVA	3	--	400 A	--	--	--	
24	HA	0 kVA	3	60 A	40 A	CB			
25	EVA	0 kVA	3	60 A	40 A	CB			
26	BM	0 kVA	1	--	175 A	--	--	--	
27	SPACE	0 kVA	--	--	--	--	--	--	--
28									
29									
30									

LOAD SUMMARY (INCLUDES ALL TUBS IN THIS PANEL)

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	TOTALS*	
HVAC	35.1 kVA	100.00%	35.1 kVA		
HVAC Cooling Only	5.158 kVA	100.00%	5.158 kVA	**TOTAL CONNECTED LOAD:**	42.30 kVA
HVAC Heating Only	1.32 kVA	100.00%	1.32 kVA	**TOTAL ESTIMATED DEMAND LOAD:**	40.978 kVA
Receptacles	0.72 kVA	100.00%	0.72 kVA	**TOTAL CONNECTED AMPS:**	117.41 A
				TOTAL ESTIMATED DEMAND AMPS:	113.7 A

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

CIRCUIT NOTES: 1. NEW BREAKER IN EXISTING PANEL.

EXISTING SWITCHBOARD 2MDP1

ENCLOSURE: NEMA 1
FED FROM: 500 A/3P XFMR LUGS @ TR-4
LOCATION:

SOLID NEUTRAL GROUND BUS

MAIN: 500 A MLO
VOLTS: 120/208 Wye
PHASE: 3
WIRE: 4
SCCR: 25 kA
ISC UNKNOWN 0 A

NOTES:

CKT	LOAD DESCRIPTION	Load	POLES	FRAME	TRIP	TYPE	ACC.	WIRE AND RACEWAY	CIRCUIT NOTES
1	FMS-MLC	33.85 kVA	3	250 A	200 A	CB		4#3/0 & 1#6 EGC IN 2" C.	1
2	SPACE	0 kVA	--	--	--	--	--	--	--
3	SPACE	0 kVA	--	--	--	--	--	--	--
4	SPACE	0 kVA	--	--	--	--	--	--	--
5	SPACE	0 kVA	--	--	--	--	--	--	--
6	SPARE	0 kVA	3	--	30 A	--	--	--	
7	BB	0 kVA	3	150 A	70 A	CB			
8	BF	0 kVA	3	150 A	70 A	CB			
9	BC	0 kVA	3	60 A	50 A	CB			
10	CHRV-B	0 kVA	3	60 A	40 A	CB			
11	HB	0 kVA	3	60 A	40 A	CB			
12	SPACE	0 kVA	--	--	--	--	--	--	--
13	SPACE	0 kVA	--	--	--	--	--	--	--
14	SPACE	0 kVA	--	--	--	--	--	--	--
15	S	0 kVA	3	400 A	400 A	LSI			
16	SPACE	0 kVA	--	--	--	--	--	--	--
17	SPACE	0 kVA	--	--	--	--	--	--	--
18	SPACE	0 kVA	--	--	--	--	--	--	--
19	MAIN BREAKER	0 kVA	3	--	600 A	--	--	--	
20	SPACE	0 kVA	--	--	--	--	--	--	--
21	SPACE	0 kVA	--	--	--	--	--	--	--
22	BA	0 kVA	3	150 A	70 A	CB			
23	AUDITORIUM HEAT	0 kVA	1	--	50 A	--	--	--	
24	AUDITORIUM EXHAUST	0 kVA	1	--	40 A	--	--	--	
25	EVB	0 kVA	3	60 A	40 A	CB			
26	SPACE	0 kVA	--	--	--	--	--	--	--
27	SPACE	0 kVA	--	--	--	--	--	--	--

LOAD SUMMARY (INCLUDES ALL TUBS IN THIS PANEL)

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	TOTALS*	
HVAC	33.129 kVA	100.00%	33.129 kVA		
Receptacles	0.72 kVA	100.00%	0.72 kVA	**TOTAL CONNECTED LOAD:**	33.85 kVA
				TOTAL ESTIMATED DEMAND LOAD:	33.849 kVA
				TOTAL CONNECTED AMPS:	93.95 A
				TOTAL ESTIMATED DEMAND AMPS:	94 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. NEW BREAKER IN EXISTING SWITCHBOARD.

EXISTING PANEL HC

MOUNTING: SURFACE
ENCLOSURE: NEMA PB 1
FED FROM: 30 A/3P CB @ LMDP2
LOCATION:

SOLID NEUTRAL GROUND BUS

MAIN: 100 A MLO
VOLTS: 120/208 Wye
PHASE: 3
WIRE: 4
SCCR: 10 kA
ISC UNKNOWN 0.00 kA

NOTES: EXISTING CHICAGO SWITCHBOAD PANEL. EXISTING BREAKERS ARE SQUARE D.

KEY	CKT NO.	LOAD DESCRIPTION	OCPD AMPS	P	WIRE SIZE H	N	G	A		B		C		WIRE SIZE G	N	H	OCPD AMPS	P	LOAD DESCRIPTION	CKT NO.	KEY
--	1	EXISTING	15 A	1	--	--	--	0	0					--	--	--	1	15 A	EXISTING	2	--
--	3	EXISTING	15 A	1	--	--	--			0	0			--	--	--	1	15 A	EXISTING	4	--
--	5	EXISTING	15 A	1	--	--	--					0	0	--	--	--	1	15 A	EXISTING	6	--
*N	7	HVAC Heating Only; UH-008	15 A	1	12	12	12	0.53	0					--	--	--	--	--	SPACE	8	--
--	9	SPACE	--	--	--	--	--			0	0			--	--	--	--	--	SPACE	10	--
--	11	SPACE	--	--	--	--	--					0	0	--	--	--	--	--	SPACE	12	--
--	13	SPACE	--	--	--	--	--	0	0					--	--	--	--	--	SPACE	14	--
--	15	SPACE	--	--	--	--	--			0	0			--	--	--	--	--	SPACE	16	--
--	17	SPACE	--	--	--	--	--					0	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	--
					Total Load:			0.53 kVA		0.00 kVA		0.00 kVA									
					Total Amps:			4.40		0.00		0.00									

LOAD SUMMARY

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	TOTALS*	
HVAC Heating Only	0.528 kVA	100.00%	0.528 kVA		
				TOTAL CONNECTED LOAD:	0.53 kVA
				TOTAL ESTIMATED DEMAND LOAD:	0.528 kVA
				TOTAL CONNECTED AMPS:	1.47 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: *N = NEW BREAKER IN EXISTING PANEL.

EXISTING PANEL BHV-R

MOUNTING: SURFACE
ENCLOSURE: NEMA PB 1
FED FROM: 225 A/3P CB @ LMDP1
LOCATION:

SOLID NEUTRAL GROUND BUS

MAIN: 225 A MLO
VOLTS: 120/208 Wye
PHASE: 3
WIRE: 4
SCCR: 10 kA
ISC UNKNOWN 0.00 kA

NOTES: EXISTING CHICAGO SWITCHBOARD PANEL. EXISTING BREAKERS ARE SQUARE D.

KEY	CKT NO.	LOAD DESCRIPTION	OCPD AMPS	P	WIRE SIZE H	N	G	A		B		C		WIRE SIZE G	N	H	OCPD AMPS	P	LOAD DESCRIPTION	CKT NO.	KEY
--	1	SPARE	20 A	1	--	--	--	0	0					--	--	--	1	20 A	SPARE	2	--
--	3	SPARE	20 A	1	--	--	--			0	0			--	--	--	1	20 A	SPARE	4	--
--	5	SPARE	20 A	1	--	--	--					0	0	--	--	--	1	20 A	SPARE	6	--
--	7	SPARE	20 A	1	--	--	--	0	0					--	--	--	1	20 A	SPARE	8	--
--	9	SPARE	20 A	1	--	--	--			0	0			--	--	--	1	20 A	SPARE	10	--
--	11	SPARE	20 A	1	--	--	--					0	0	--	--	--	1	20 A	SPARE	12	--
--	13	SPARE	20 A	1	--	--	--	0	0					--	--	--	1	20 A	SPARE	14	--
--	15	SPARE	20 A	1	--	--	--			0	0			--	--	--	1	20 A	SPARE	16	--
--	17	SPARE	20 A	1	--	--	--					0	0	--	--	--	1	20 A	SPARE	18	--
--	19	SPARE	20 A	1	--	--	--	0	0					--	--	--	1	20 A	SPARE	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	--
*N	37	HVAC	15 A	1	12	12	12	1.02	1.39					10	10	10	1	20 A	HVAC	38	*N
*N	39	HVAC	20 A	1	8	8	8			1.78	1.78			8	8	8	1	20 A	HVAC	40	*N
*N	41	HVAC	20 A	1	6	6	6					1.78	0.5	12	12	12	1	15 A	HVAC Heating Only	42	*N
					Total Load:			2.41 kVA		3.55 kVA		2.28 kVA									
					Total Amps:			20.27		29.77		19.00									

LOAD SUMMARY

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	TOTALS*	
HVAC	7.74 kVA	100.00%	7.74 kVA		
HVAC Heating Only	0.504 kVA	100.00%	0.504 kVA	**TOTAL CONNECTED LOAD:**	8.24 kVA
				TOTAL ESTIMATED DEMAND LOAD:	8.244 kVA
				TOTAL CONNECTED AMPS:	22.88 A
				TOTAL ESTIMATED DEMAND AMPS:	22.9 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: *N = NEW BREAKER IN EXISTING PANEL.

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Rockford Public Schools #205

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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	**21002885.03**
Drawn	**JERVET**
Checked	**BRILEA**
Approved	**JERVET**

SHEET TITLE

PANEL SCHEDULES

SCALE

Scale:

SHEET NUMBER

E701

PANEL FMS-MLA

MOUNTING: SURFACE
ENCLOSURE: NEMA PB 1
FED FROM: 200 A/3P CB @ LMDP1
LOCATION:

SOLID NEUTRAL
GROUND BUS

MAIN: 200 A MCB
VOLTS: 120/208 Wye
PHASE: 3
WIRE: 4
SCCR: 10 kA
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	HVAC	20 A	1	8	8	8	1.63	0.31					12	12	12	1	20 A	HVAC	2	
	3	HVAC	20 A	1	6	6	6			1.63	1.63			8	8	8	1	20 A	HVAC	4	
	5	HVAC	20 A	1	10	10	10					1.63	0.62	12	12	12	1	20 A	HVAC	6	
	7	HVAC	20 A	3	12	12	12	1.32	1.92					10	12	12	1	30 A	HVAC	8	
--	9	--	--	--	--	--	--			1.32	0.5			12	12	12	1	20 A	HVAC Heating Only	10	
--	11	--	--	--	--	--	--					1.32	0.89	10	10	10	1	20 A	HVAC	12	
	13	HVAC; RTU-2FL ERW	30 A	1	6	6	4	1.92	0.55					12	12	12	1	20 A	HVAC Heating Only	14	
	15	HVAC	20 A	1	10	10	10			0.89	2.1			10	10	10	3	30 A	HVAC	16	
	17	HVAC	20 A	1	10	10	10					0.58	2.1	--	--	--	--	--	--	18	--
	19	HVAC	20 A	3	12	12	12	1.32	2.1					--	--	--	--	--	--	20	--
--	21	--	--	--	--	--	--			1.32	0.5			12	12	12	1	20 A	HVAC Heating Only	22	
--	23	--	--	--	--	--	--					1.32	1.63	8	8	8	1	20 A	HVAC	24	
	25	Receptacles	20 A	1	12	12	12	0.36	0					--	--	--	1	20 A	SPARE	26	--
	27	Receptacles	20 A	1	12	12	12			0.36	0			--	--	--	1	20 A	SPARE	28	--
	29	Receptacles	20 A	1	12	12	12					0.18	0	--	--	--	1	20 A	SPARE	30	--
	31	Receptacles	20 A	1	12	12	12	0.18	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	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	--
							Total Load:	11.62 kVA		10.26 kVA		10.28 kVA									
							Total Amps:	96.84		85.53		85.54									

LOAD SUMMARY

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	TOTALS*	
HVAC	29.519 kVA	100.00%	29.519 kVA		
HVAC Heating Only	1.56 kVA	100.00%	1.56 kVA	**TOTAL CONNECTED LOAD:**	32.16 kVA
Receptacles	1.08 kVA	100.00%	1.08 kVA	**TOTAL ESTIMATED DEMAND LOAD:**	32.159 kVA
				TOTAL CONNECTED AMPS:	89.26 A
				TOTAL ESTIMATED DEMAND AMPS:	89.3 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 FMS-MLB1

MOUNTING: SURFACE
ENCLOSURE: NEMA PB 1
FED FROM: 200 A/3P CB @ LMDP2
LOCATION:

SOLID NEUTRAL
GROUND BUS

MAIN: 200 A MLO
VOLTS: 120/208 Wye
PHASE: 3
WIRE: 4
SCCR: 10 kA
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	HVAC	20 A	1	8	8	8	1.63	1.63					10	10	10	1	20 A	HVAC	2	
	3	HVAC	20 A	1	12	12	12			0.31	1.63			12	12	12	1	20 A	HVAC	4	
	5	HVAC	20 A	1	10	10	10					1.63	0.82	12	12	12	1	20 A	HVAC	6	
	7	HVAC	20 A	1	10	10	10	1.78	1.63					12	12	12	1	20 A	HVAC	8	
	9	HVAC	20 A	1	10	10	10			1.78	1.78			8	8	8	1	20 A	HVAC	10	
	11	HVAC	20 A	1	8	8	8					1.78	1.78	10	10	10	1	20 A	HVAC	12	
	13	HVAC	20 A	1	6	6	6	1.78	1.78					10	10	10	1	20 A	HVAC	14	
	15	HVAC	20 A	1	12	12	12			0.31	1.78			6	6	6	1	20 A	HVAC	16	
	17	HVAC	20 A	1	12	12	12					0.89	0.62	10	10	10	1	20 A	HVAC	18	
	19	HVAC	20 A	1	10	10	10	0.89	0.31					12	12	12	1	20 A	HVAC	20	
--	21	SPARE	20 A	1	--	--	--			0	0.89			12	12	12	1	20 A	HVAC	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	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	--
							Total Load:	11.42 kVA		8.47 kVA		7.51 kVA									
							Total Amps:	96.43		71.83		62.60									

LOAD SUMMARY

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	TOTALS*	
HVAC	27.408 kVA	100.00%	27.408 kVA		
				TOTAL CONNECTED LOAD:	27.41 kVA
				TOTAL ESTIMATED DEMAND LOAD:	27.408 kVA
				TOTAL CONNECTED AMPS:	76.08 A
				TOTAL ESTIMATED DEMAND AMPS:	76.1 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 FMS-MLB2

MOUNTING: SURFACE
ENCLOSURE: NEMA PB 1
FED FROM: 225 A/3P CB @ LMDP1
LOCATION:

SOLID NEUTRAL
GROUND BUS

MAIN: 225 A MCB
VOLTS: 120/208 Wye
PHASE: 3
WIRE: 4
SCCR: 10 kA
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	HVAC Heating Only	20 A	1	10	10	10	0.55	0.22					12	12	12	1	20 A	HVAC	2	
	3	HVAC	20 A	1	12	12	12			0.22	0.22			12	12	12	1	20 A	HVAC	4	
	5	HVAC	20 A	1	8	8	8					1.01	0.85	10	10	10	1	20 A	HVAC	6	
	7	HVAC	20 A	1	8	8	8	1.63	1.63					10	10	10	1	20 A	HVAC	8	
	9	HVAC	20 A	1	10	10	10			1.63	1.63			10	10	10	1	20 A	HVAC	10	
	11	HVAC	20 A	1	8	8	8					1.63	0.62	12	12	12	1	20 A	HVAC	12	
	13	HVAC	20 A	1	12	12	12	0.62	1.78					6	6	6	1	20 A	HVAC	14	
	15	HVAC	20 A	1	6	6	6			1.78	0			--	--	--	1	20 A	SPARE	16	--
	17	HVAC	20 A	1	4	4	4					1.78	1.78	6	6	6	1	20 A	HVAC	18	
	19	HVAC	20 A	1	6	6	6	1.78	1.78					6	6	6	1	20 A	HVAC	20	
	21	HVAC	20 A	1	8	8	8			1.78	1.78			8	8	8	1	20 A	HVAC	22	
	23	HVAC	20 A	1	10	10	10					1.78	1.78	8	8	8	1	20 A	HVAC	24	
--	25	SPARE	20 A	1	--	--	--	0	1.01					8	8	8	1	20 A	HVAC	26	
	27	HVAC	20 A	1	8	8	8			1.78	0.62			12	12	12	1	20 A	HVAC	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	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	--
							Total Load:	10.99 kVA		11.42 kVA		11.22 kVA									
							Total Amps:	91.60		95.49		93.79									

LOAD SUMMARY

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	TOTALS*	
HVAC	33.084 kVA	100.00%	33.084 kVA		
HVAC Heating Only	0.552 kVA	100.00%	0.552 kVA	**TOTAL CONNECTED LOAD:**	33.64 kVA
				TOTAL ESTIMATED DEMAND LOAD:	33.636 kVA
				TOTAL CONNECTED AMPS:	93.36 A
				TOTAL ESTIMATED DEMAND AMPS:	93.4 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 FMS-MLC

MOUNTING: SURFACE
ENCLOSURE: NEMA PB 1
FED FROM: 200 A/3P CB @ 2MDP1
LOCATION:

SOLID NEUTRAL
GROUND BUS

MAIN: 200 A MCB
VOLTS: 120/208 Wye
PHASE: 3
WIRE: 4
SCCR: 10 kA
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	HVAC	20 A	1	12	12	12	1.63	1.63					12	12	12	1	20 A	HVAC	2	
	3	HVAC	20 A	1	10	10	10			1.63	1.78			6	6	6	1	20 A	HVAC	4	
	5	HVAC	20 A	1	6	6	6					1.78	1.78	6	6	6	1	20 A	HVAC	6	
	7	HVAC	20 A	1	8	8	8	1.78	1.78					8	8	8	1	20 A	HVAC	8	
	9	HVAC	20 A	1	8	8	8			1.78	0.62			12	12	12	1	20 A	HVAC	10	
	11	HVAC	20 A	1	12	12	12					0.62	0.31	12	12	12	1	20 A	HVAC	12	
	13	HVAC	20 A	1	12	12	12	0.53	0.53					12	12	12	1	20 A	HVAC	14	
	15	HVAC	20 A	1	12	12	12			0.53	0.89			12	12	12	1	20 A	HVAC	16	
	17	HVAC; BCU-14L	20 A	3	10	10	10					1.32	1.32	12	12	12	3	20 A	HVAC	18	
--	19	--	--	--	--	--	--	1.32	1.32					--	--	--	--	--	--	20	--
--	21	--	--	--	--	--	--			1.32	1.32			--	--	--	--	--	--	22	--
	23	HVAC; BCU-15L	20 A	3	12	12	12					1.32	1.66	4	6	6	1	25 A	HVAC; ERV-1FL ERW	24	
--	25	--	--	--	--	--	--	1.32	0					--	--	--	1	20 A	SPARE	26	--
--	27	--	--	--	--	--	--			1.32	0			--	--	--	1	20 A	SPARE	28	--
	29	Receptacles	20 A	1	12	12	12					0.72	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	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	--
							Total Load:	11.83 kVA		11.19 kVA		10.83 kVA									
							Total Amps:	99.09		93.69		90.22									

LOAD SUMMARY

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	TOTALS*	
HVAC	33.129 kVA	100.00%	33.129 kVA		
Receptacles	0.72 kVA	100.00%	0.72 kVA	**TOTAL CONNECTED LOAD:**	33.85 kVA
				TOTAL ESTIMATED DEMAND LOAD:	33.849 kVA
				TOTAL CONNECTED AMPS:	93.95 A
				TOTAL ESTIMATED DEMAND AMPS:	94 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 FMS-MLD

MOUNTING: SURFACE
ENCLOSURE: NEMA PB 1
FED FROM: 200 A/3P CB @ IMDP1
LOCATION:

SOLID NEUTRAL
GROUND BUS

MAIN: 200 A MLO
VOLTS: 120/208 Wye
PHASE: 3
WIRE: 4
SCCR: 10 kA
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	HVAC	20 A	1	6	6	6	2.04	2.1					10	10	10	3	30 A	HVAC	2	
	3	HVAC	20 A	1	8	8	8			2.04	2.1			--	--	--	--	--	--	4	--
	5	HVAC	20 A	1	10	10	10					2.04	2.1	--	--	--	--	--	--	6	--
	7	Receptacles	20 A	1	12	12	12	0.36	2.04					10	10	10	1	20 A	HVAC	8	
	9	HVAC	20 A	1	10	10	10			2.04	1.32			12	12	12	3	20 A	HVAC	10	
	11	HVAC	15 A	1	12	12	12					1.02	1.32	--	--	--	--	--	--	12	--
	13	HVAC	30 A	1	8	8	4	1.92	1.32					--	--	--	--	--	--	14	--
	15	HVAC	20 A	1	12	12	12			0.53	1.92			4	8	8	1	30 A	HVAC	16	
	17	HVAC	20 A	1	8	8	8					2.04	0.36	12	12	12	1	20 A	Receptacles	18	
	19	HVAC	20 A	1	12	12	12	1.01	0.58					12	12	12	1	15 A	HVAC	20	
	21	HVAC Heating Only	15 A	1	10	10	10			0.82	0.5			12	12	12	1	15 A	HVAC Heating Only	22	
	23	HVAC Cooling Only	20 A	2	10	10	10					1.29	1.29	12	12	12	2	20 A	HVAC Cooling Only	24	
--	25	--	--	--	--	--	--	1.29	1.29					--	--	--	--	--	--	26	--
	27	HVAC	15 A	3	12	12	12			0.94	0.94			12	12	12	3	15 A	HVAC	28	
--	29	--	--	--	--	--	--					0.94	0.94	--	--	--	--	--	--	30	--
--	31	--	--	--	--	--	--	0.94	0.94					--	--	--	--	--	--	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	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	--
							Total Load:	15.82 kVA		13.14 kVA		13.34 kVA									
							Total Amps:	132.07		109.53		111.37									

LOAD SUMMARY

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	TOTALS*	
HVAC	35.1 kVA	100.00%	35.1 kVA		
HVAC Cooling Only	5.158 kVA	100.00%	5.158 kVA	**TOTAL CONNECTED LOAD:**	42.30 kVA
HVAC Heating Only	1.32 kVA	100.00%	1.32 kVA	**TOTAL ESTIMATED DEMAND LOAD:**	40.976 kVA
Receptacles	0.72 kVA	100.00%	0.72 kVA	**TOTAL CONNECTED AMPS:**	117.41 A
				TOTAL ESTIMATED DEMAND AMPS:	113.7 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:

EXISTING PANEL DBL

MOUNTING: SURFACE
ENCLOSURE: NEMA PB 1
FED FROM: 225 A/3P CB @ LMDP1
LOCATION:

SOLID NEUTRAL
GROUND BUS

MAIN: 225 A MLO
VOLTS: 120/208 Wye
PHASE: 3
WIRE: 4
SCCR: 10 kA
ISC UNKNOWN 0.00 kA

NOTES: EXISTING CHICAGO SWITCHBOARD PANEL. EXISTING BREAKERS ARE SQUARE D.

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
*N	1	HVAC	15 A	1	12	12	12	1.02	0					--	--	--	1	20 A	EXISTING	2	--
--	3	SPACE	--	--	--	--	--			0	0			--	--	--	1	20 A	EXISTING	4	--
--	5	SPACE	--	--	--	--	--					0	0	--	--	--	1	20 A	EXISTING	6	--
--	7	SPACE	--	--	--	--	--	0	0					--	--	--	1	20 A	EXISTING	8	--
--	9	SPACE	--	--	--	--	--			0	0			--	--	--	1	20 A	EXISTING	10	--
--	11	SPACE	--	--	--	--	--					0	0	--	--	--	1	20 A	EXISTING	12	--
--	13	SPACE	--	--	--	--	--	0	0					--	--	--	--	--	SPACE	14	--
--	15	EXISTING	20 A	1	--	--	--			0	0			--	--	--	--	--	SPACE	16	--
--	17	EXISTING	30 A	3	--	--	--					0	0	--	--	--	3	30 A	EXISTING	18	--
--	19	--	--	--	--	--	--	0	0					--	--	--	--	--	--	20	--
--	21	--	--	--	--	--	--			0	0			--	--	--	--	--	--	22	--
--	23	EXISTING	15 A	3	--	--	--					0	0	--	--	--	3	80 A	DISHWASHER	24	--
--	25	--	--	--	--	--	--	0	0					--	--	--	--	--	--	26	--
--	27	--	--	--	--	--	--			0	0			--	--	--	--	--	--	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:	1.02 kVA		0.00 kVA		0.00 kVA									
							Total Amps:	8.50		0.00		0.00									

LOAD SUMMARY

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	TOTALS*	
HVAC	1.02 kVA	100.00%	1.02 kVA		
				TOTAL CONNECTED LOAD:	1.02 kVA
				TOTAL ESTIMATED DEMAND LOAD:	1.02 kVA
				TOTAL CONNECTED AMPS:	2.83 A
				TOTAL ESTIMATED DEMAND AMPS:	2.8 A

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

CIRCUIT KEY NOTES: *N = NEW BREAKER IN EXISTING PANEL.

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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	**21002885.03**
Drawn	**JERVET**
Checked	**BRILEA**
Approved	**JERVET**

SHEET TITLE
PANEL SCHEDULES

SCALE
Scale:

SHEET NUMBER
E702

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

INDICATES DIRECTION OF TRUE NORTH
PLAN OR DETAIL NUMBER
PLAN OR DETAIL NAME
PLAN OR DETAIL SCALE

NORTH — 1 — VIEW NAME — 1/8" = 1'-0"

INDICATES SIMILAR DETAIL REFERENCED IN MULTIPLE LOCATIONS
DETAIL REFERRED TO BY SECTION CUT
SHEET DETAIL IS LOCATED ON

SIM — 1 — M101 — T101 — SIM — 1 2 3 4

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.

ASSEMBLIES SHALL BE DESIGNATED AS ALL WALL HOUR FIRE BARRIER(S), UNLESS NOTED OTHERWISE ON THE PLANS. RATINGS WERE ACQUIRED FROM THE ARCHITECTURAL PLANS DATED 12/28/21.

1/2 HOUR FIRE WALL	
3/4 HOUR FIRE WALL	
1 HOUR FIRE WALL	

CONTRACTOR ABBREVIATION KEY

ABBR:	DESCRIPTION:
A.C.	ASBESTOS ABATEMENT CONTRACTOR
C.C.	CIVIL CONTRACTOR
E.C.	ELECTRICAL CONTRACTOR
G.C.	GENERAL CONTRACTOR
M.C.	MECHANICAL CONTRACTOR
P.C.	PLUMBING CONTRACTOR
T.C.C.	TEMPERATURE CONTROLS CONTRACTOR
V.C.	VENTILATION CONTRACTOR

MECHANICAL SYMBOL LIST

NOT ALL SYMBOLS MAY APPLY.

SYMBOL:	DESCRIPTION:
CWR	CHILLED WATER RETURN
CWS	CHILLED WATER SUPPLY
D	DRAIN - PLUMBING
G	NATURAL GAS
HWR	HEATING WATER RETURN
HWS	HEATING WATER SUPPLY
LIQ	REFRIGERANT LIQUID
LPC	LOW PRESSURE CONDENSATE
LPS	LOW PRESSURE STEAM
PC	PUMPED CONDENSATE
SUC	REFRIGERANT SUCTION
SV	SAFETY RELIEF VENT
V	VENT
	PIPE CAP
	PIPE DOWN
	PIPE UP OR DOWN
	PITCH PIPE IN DIRECTION
	DIRECTION OF FLOW IN PIPE
	DIELECTRIC CONNECTION
	UNION/FLANGE
	SHUTOFF VALVE NORMALLY OPEN
	SHUTOFF VALVE NORMALLY CLOSED
	THROTTLING VALVE
	BALANCING VALVE (NUMBER INDICATES GPM)
	CONTROL VALVE (TWO-WAY)
	CHECK VALVE
	SAFETY/RELIEF VALVE
	PUMP
	VACUUM BREAKER
	"WYE" - STRAINER
	"WYE" - STRAINER W/SHUTOFF VALVE AND HOSE CONNECTION WITH CAP
	CHECK VALVE
	SAFETY/RELIEF VALVE
	BASKET STRAINER
	FLEXIBLE CONNECTION
	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-	F&T STEAM TRAP (REFER TO SCHEDULE)
	ALIGNMENT GUIDE
	PIPE ANCHOR
	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
	DUCTWORK WITH ACOUSTICAL LINER
	SUPPLY/OUTSIDE AIR DUCT SECTION
	RETURN AIR DUCT SECTION
	EXHAUST/RELIEF AIR DUCT SECTION
SD-1 6/115	AIR TERMINAL PROPERTIES SYMBOL NECK SIZE/CFM

MECHANICAL SYMBOL LIST

NOT ALL SYMBOLS MAY APPLY.

SYMBOL:	DESCRIPTION:
ACT	ACTUATOR
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
FS	FLOW SENSOR
FS	AIR FLOW SWITCH
FM	DUCT FLOW METER
P	PRESSURE SWITCH
P	PRESSURE SENSOR (FURNISHED WITH BALL VALVE)
P	PRESSURE GAUGE (FURNISHED WITH BALL VALVE)
T	THERMOSTAT
	THERMOSTAT/SENSOR WITH HEAVY DUTY ENCLOSURE
T	TEMPERATURE SENSOR (DUCT MOUNTED)
T	TEMPERATURE SENSOR WITH WELL
T	THERMOMETER WITH WELL (DIAL TYPE)
	THERMOMETER WITH WELL (FILLED TYPE)
H	HUMIDISTAT SENSOR
H	HUMIDISTAT / SENSOR
C	CARBON MONOXIDE SENSOR
C 2	CARBON DIOXIDE SENSOR
	FILTER
DSD	DUCT SMOKE DETECTOR

MECHANICAL ABBREVIATION KEY

ABBR:	DESCRIPTION:
AD	ACCESS DOOR
ABV.	ABOVE
AFF	ABOVE FINISHED FLOOR
CD	CEILING DIFFUSER
E	EXISTING
EA	EXHAUST/RELIEF AIR
EG	EXHAUST GRILLE
FD	FIRE DAMPER
MA	MIXED AIR
N.C.	NORMALLY CLOSED
NIC	NOT IN CONTRACT
N.O.	NORMALLY OPEN
OA	OUTSIDE AIR
RA	RETURN AIR
RR	RETURN REGISTER
SA	SUPPLY AIR
SG	SUPPLY GRILLE
SCCR	SHORT CIRCUIT CURRENT RATING
SR, SWR	SUPPLY WALL REGISTER
TD	TRANSFER DUCT
TYP	TYPICAL
UON	UNLESS OTHERWISE NOTED

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 FIELD VERIFY ACCESSIBILITY TO THE AREA OF HIS/HER WORK AND SHALL NOTIFY THE GENERAL CONTRACTOR.
5. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR CUTTING, REMOVAL AND PATCHING OF ROOFS, WALLS, AND FLOORS ASSOCIATED WITH WORK BY ALL CONTRACTORS. CONTRACTORS SHALL NOTIFY THE GC OF AFFECTED AREAS PRIOR TO BIDDING] EACH CONTRACTOR SHALL CUT AND PATCH ROOFS, WALLS, AND FLOORS ASSOCIATED WITH HIS WORK.
6. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR REMOVAL AND REPLACEMENT OF CEILINGS, AND CEILING GRIDS ASSOCIATED WITH AREAS OF WORK BY ALL CONTRACTORS. NOTIFY THE GENERAL CONTRACTOR OF AFFECTED AREAS PRIOR TO BIDDING.
7. 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.
8. PROVIDE TEMPORARY CONNECTIONS TO MAINTAIN EXISTING SYSTEMS IN SERVICE DURING CONSTRUCTION. MAINTAIN ACCESS TO EXISTING MECHANICAL INSTALLATIONS THAT REMAIN ACTIVE.
9. 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.
10. 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.
11. DISCONNECT AND REMOVE MECHANICAL DEVICES AND EQUIPMENT SERVING EQUIPMENT THAT HAS BEEN REMOVED.

TAB POST-CONSTRUCTION NOTES:

1. AFTER CONSTRUCTION ACTIVITIES ARE COMPLETE, TESTING, ADJUSTING (TAB) AND BALANCING CONTRACTOR SHALL REBALANCE AIR HANDLING UNITS AND EXHAUST FANS AS REQUIRED TO ACHIEVE THE NEW AIRFLOW VALUES SHOWN ON THE CONSTRUCTION DRAWINGS.
2. TAB CONTRACTOR SHALL COMPILE AND SUBMIT COPIES OF THE FINAL POST-CONSTRUCTION TAB REPORT AS REQUIRED BY SECTION 23 05 93.
3. THE FINAL POST CONSTRUCTION REPORT SHALL INCLUDE ALL ITEMS REQUIRED IN THE SPECIFICATIONS.

PIPING GENERAL NOTES:

1. THE SIZE OF BRANCH PIPING TO TERMINAL HEATING DEVICES AND COILS SHALL BE 3/4" UNLESS NOTED OTHERWISE.
2. PIPE DRAIN LINES FROM EQUIPMENT TO NEAREST FLOOR DRAIN.
3. INSTALL ALL REFRIGERANT LIQUID AND SUCTION PIPING SIZED PER EQUIPMENT MANUFACTURER RECOMMENDATIONS.

VENTILATION GENERAL NOTES:

1. ALIGN TEMPERATURE SENSORS WITH LIGHT SWITCHES AND WHEN IN CLOSE PROXIMITY TO EACH OTHER. PROVIDE WIRE MOLD WHERE NOTED ON DRAWINGS.
2. PROVIDE ACCESS DOORS AT ALL DUCT MOUNTED EQUIPMENT.
3. 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.

MECHANICAL SHEET INDEX

M000	MECHANICAL COVERSHEET
M100A	BASEMENT DEMOLITION - MECHANICAL - AREA A
M100B	BASEMENT DEMOLITION - MECHANICAL - AREA B & C
M100D	BASEMENT DEMOLITION - MECHANICAL - AREA D
M100E	BASEMENT DEMOLITION - MECHANICAL - AREA E & F
M101A	FIRST FLOOR DEMOLITION - MECHANICAL - AREA A
M101B	FIRST FLOOR DEMOLITION - MECHANICAL - AREA B & C
M101D	FIRST FLOOR DEMOLITION - MECHANICAL - AREA D
M101E	FIRST FLOOR DEMOLITION - MECHANICAL - AREA E & F
M102A	SECOND FLOOR DEMOLITION - MECHANICAL - AREA A
M102B	SECOND FLOOR DEMOLITION - MECHANICAL - AREA B & C
M102D	SECOND FLOOR DEMOLITION - MECHANICAL - AREA D
M102E	SECOND FLOOR DEMOLITION - MECHANICAL - AREA E & G
M103	ROOF - MECHANICAL DEMOLITION
M201A	BASEMENT FLOOR - MECHANICAL - AREA A
M201B	BASEMENT FLOOR - MECHANICAL - AREA B & C
M201D	BASEMENT FLOOR - MECHANICAL - AREA D
M201E	BASEMENT FLOOR - MECHANICAL - AREA E & F
M202A	FIRST FLOOR - MECHANICAL - AREA A
M202B	FIRST FLOOR - MECHANICAL - AREA B & C
M202D	FIRST FLOOR - MECHANICAL - AREA D
M202E	FIRST FLOOR - MECHANICAL - AREA E & F
M203A	SECOND FLOOR - MECHANICAL - AREA A
M203B	SECOND FLOOR - MECHANICAL - AREA B & C
M203D	SECOND FLOOR - MECHANICAL - AREA D
M203E	SECOND FLOOR - MECHANICAL - AREA E & G
M204	ROOF - MECHANICAL
M300	DOAS-4 ENLARGED PLAN & AHU DETAIL
M301	BOILER ROOM/ENLARGED MECHANICAL ROOM PLAN
M302	GYM ENLARGED ROOF PLAN
M303	POOL ENLARGED ROOF/AHU PLAN
M304	RTU-2/RTU-3 EQUIPMENT DETAILS
M305	RTU-3/ERV-1 AND DOAS-8FL ENLARGED ROOF PLANS
M306	ENLARGED TUNNEL SECTIONS/PLANS
M400	MECHANICAL DETAILS
M401	MECHANICAL DETAILS
M402	MECHANICAL DETAILS
M500	MECHANICAL DIAGRAM
M501	MECHANICAL DIAGRAM
M600	MECHANICAL SCHEDULES
M601	MECHANICAL SCHEDULES
M602	MECHANICAL SCHEDULES
M603	MECHANICAL SCHEDULES
GRAND TOTAL: 43	

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, 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. 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.
5. EACH CONTRACTOR IS RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH ELECTRICAL CHANGES REQUIRED FOR EQUIPMENT PROPOSED THAT DIFFERS FROM THE BASIS OF DESIGN.
6. 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.
7. SEAL ALL FLOOR, WALL 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.
8. CAULK ALL PIPE 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.
9. 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.
10. 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.
11. MAINTAIN MINIMUM 3'-6" CLEARANCE IN FRONT OF ALL ELECTRICAL PANELS, MOTOR STARTERS, SWITCHES, AND DISCONNECTS.
12. 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 PHASING NOTES:

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

1. REFER TO GENERAL NOTATIONS ON PLAN WITH REGARDS TO PROJECT PHASING.
2. INTENT IS FOR THE STEAM SYSTEM THAT SERVES THE PERIMETER STEAM RADIATION AND ALSO STEAM HEAT FOR THE VENTILAITON UNITS TO REMAIN ACTIVE DURING FIRST WINTER OF CONSTRUCTION IN 2022.
3. REVIEW PROJECT PHASING NOTES TO COORDINATE DEMOLITION WORK, OUTAGES, ETC. WITH AFFECTED ADJACENT AREAS.
4. PROVIDE ANY TEMPORARY DUCTWORK, PIPING, SHUTOFF VALVES, ETC. AS NECESSARY TO KEEP ALL OCCUPIED SPACES OPERATION THROUGHOUT ALL PHASES OF THE PROJECT.
5. PHASE DEMOLITION WORK TO MINIMIZE DOWNTIME.

MECHANICAL DESIGN CONDITIONS:

DESIGN CONDITIONS: — **BASED ON WEATHER DATA FOR: (ROCKFORD IL)**

SUMMER:	91.1°F DRY BULB, 74.6°F WET BULB
WINTER:	-5.8°F DRY BULB
WINTER: (AIR SYSTEM'S OUTSIDE AIR STREAM)	-10.0°F DRY BULB

TYPICAL ROOM SETPOINTS:

SUMMER DESIGN:	75°F DRY BULB, 50% RELATIVE HUMIDITY (NO HUMIDITY REQUIREMENT)
WINTER DESIGN:	72°F DRY BULB, 30% RELATIVE HUMIDITY (NO HUMIDITY REQUIREMENT)

REFER TO CONTROL DIAGRAMS FOR ROOM SPECIFICS.

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					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"	
CHR - CHILLED/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"	C 1", E 1"	C 1", E 1"	C 1", E 1"	C 1", E 1"	C 1", E 1"	
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"	C 1", E 1"	C 1", E 1"	C 1", E 1"	C 1", E 1"	C 1", E 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"	C 1", E 1"	C 1", E 1"	C 1", E 1"	C 1", E 1"	C 1", E 1"	
DPP - DRAIN - PIPING	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.)
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"	C 1", E 1"	C 1", E 1"	C 1", E 1"	C 1", E 1"	C 1", E 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"	C 1", E 1"	C 1", E 1"	C 1", E 1"	C 1", E 1"	C 1", E 1"	
LIQ - REFRIGERANT LIQUID	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"	A 1", B 1", E 1", F 1"	C 1", E 1"	C 1", E 1"	C 1", E 1"	C 1", E 1"	C 1", E 1"	
LPC - LOW PRESSURE CONDENSATE	A 2.5"	A 2.5"	A 2.5"	A 3"	A 3"	G 4"	G 4"	G 4"	G 5"	G 5"	
LPS - LOW PRESSURE STEAM	A 2.5"	A 2.5"	A 2.5"	A 3"	A 3"	G 4"	G 4"	G 4"	G 5"	G 5"	
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.
PC - PUMPED CONDENSATE	A 2.5"	A 2.5"	A 2.5"	A 3"	A 3"	G 4"	G 4"	G 4"	G 5"	G 5"	
REFRIGERATION PIPING - VRF, SPLIT SYSTEMS	REFER TO EQPT. SPEC	REFER TO EQPT. SPEC	REFER TO EQPT. SPEC	REFER TO EQPT. SPEC	REFER TO EQPT. SPEC						
SUC - REFRIGERANT SUCTION	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"	C 1", E 1"	C 1", E 1"	C 1", E 1"	C 1", E 1"	C 1", E 1"	

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No.	Date	Revision / Issue

SHEET INFORMATION

Issue	**BID DOCUMENTS**
Date	**JANUARY 28, 2022**
Job Number	**21002885.03**
Drawn	**J.D.C.**
Checked	**M.L.**
Approved	**B.P.**

SHEET TITLE
MECHANICAL COVERSHEET

SCALE
Scale: **As indicated**

SHEET NUMBER
M000

KEYNOTES: (#)

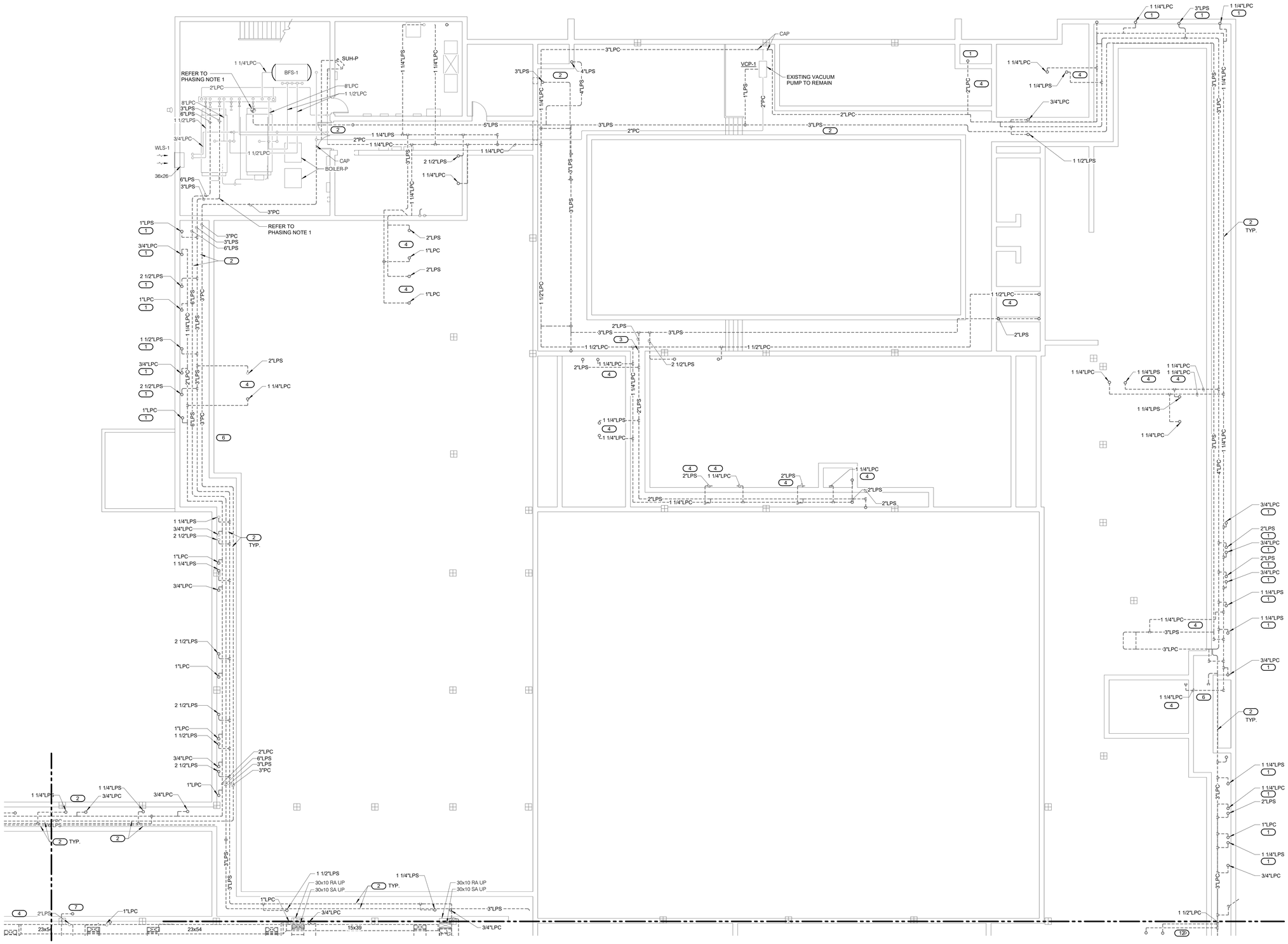
1. REMOVE LPS/LPR BRANCH PIPING UP TO RADIATION ABOVE. PATCH FLOOR OPENING WITH CONCRETE.
2. REMOVE LOW PRESSURE STEAM AND LOW PRESSURE CONDENSATE MAINS SERVING BOTH THE PERIMETER HOT WATER SYSTEM AND AHU COILS WITHIN TUNNEL. REMOVE ALL ASSOCIATED SUPPORT STRUCTURE.
3. CAP BRANCH LPS/LPR AT WALL PENETRATION INTO INACCESSIBLE TUNNEL. ALL LPS/LPR MAINS UP TO THAT POINT SHALL BE REMOVED.
4. FOR DIRECT BURIED PIPING, CAP BRANCHES AT WALL/FLOOR PENETRATION ON BOTH ENDS. ALL PIPING BELOW SLAB WILL BE ABANDONED IN PLACE. PATCH FLOOR AND/OR WALL OPENING WATER TIGHT AS REQUIRED.
5. REMOVE VACUUM PUMP AND ALL ASSOCIATED PIPING AND ACCESSORIES BACK TO CONNECTIONS AT MAINS.
6. REMOVE LPS MAINS BACK TO STEAM HEADER AND CAP ON THE DOWNSTREAM SIDE OF EXISTING VALVE. REFER TO PHASING NOTES.

GENERAL NOTES:

1. THE TUNNEL IS HEATED AT VARIOUS LOCATIONS BY BARE ELEMENT RADIATION. THIS SHALL BE REMOVED FROM THE TUNNEL ALONG WITH THE STEAM/CONDENSATE MAINS SHOWN. NOT ALL RADIATION WAS VARIFIED. CONTRACTOR TO ASSUME 25 SECTIONS OF 10' RADIATION THROUGHOUT THE TUNNEL SYSTEM.

PHASING NOTES:

1. PERIMETER RADIATION LPS/LPR SHALL REMAIN ACTIVE IN TUNNEL FOR THE FIRST PHASE OF CONSTRUCTION FOR HEATING OF THE BUILDING.



1 BASEMENT DEMOLITION - MECHANICAL - AREA A

1/8" = 1'-0"

NORTH

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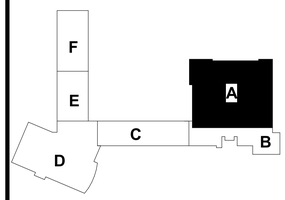

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Approved	B.P.

SHEET TITLE

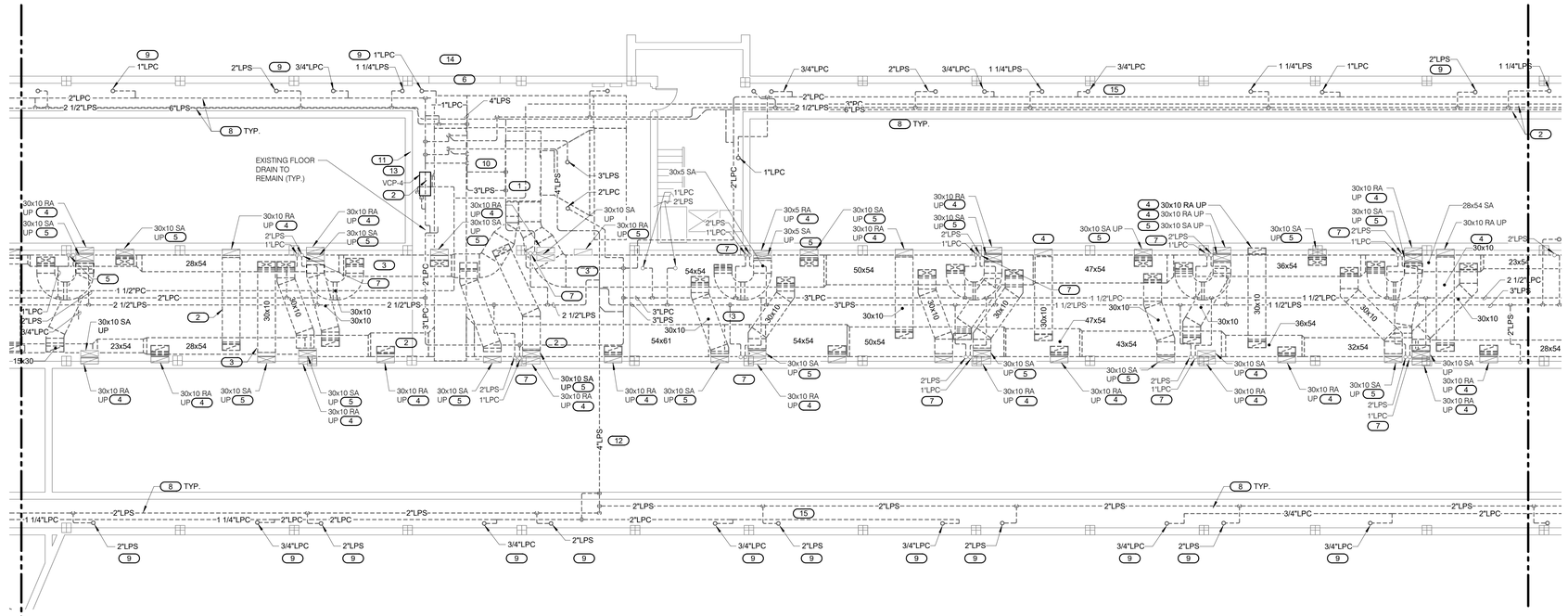
BASEMENT DEMOLITION - MECHANICAL - AREA A

SCALE

Scale: As indicated

SHEET NUMBER

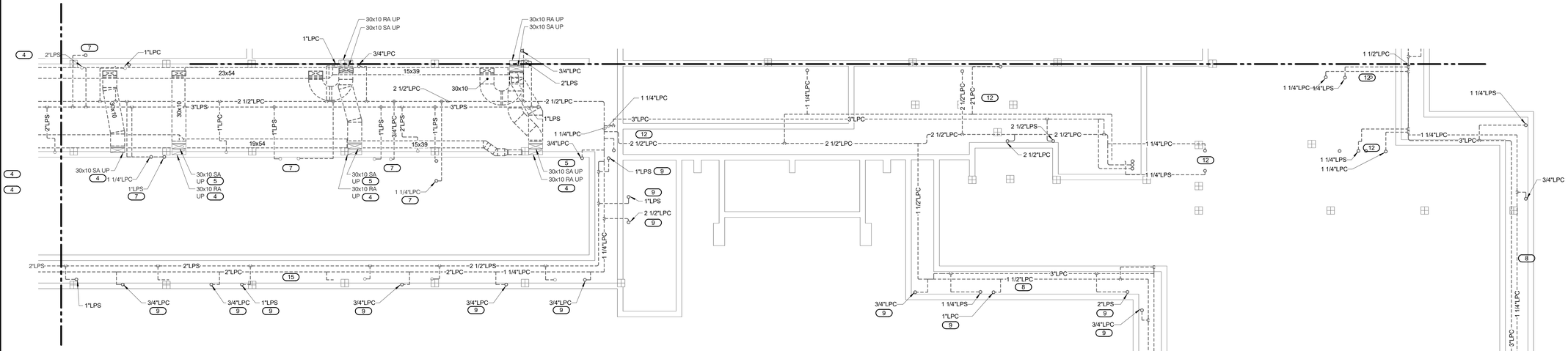
M100A



1 BASEMENT DEMOLITION - MECHANICAL - AREA C

1/8" = 1'-0"

NORTH



2 BASEMENT DEMOLITION - MECHANICAL - AREA B

1/8" = 1'-0"

NORTH

PHASING NOTES:

1. PERIMETER RADIATION LPS/LPR SHALL REMAIN ACTIVE IN TUNNEL FOR THE FIRST PHASE OF CONSTRUCTION FOR HEATING OF THE BUIDLING.

KEYNOTES: (#)

1. REMOVE FAN UNIT, EQUIPMENT PAD AND ALL ASSOCIATED COMPONENTS.
2. REMOVE RETURN MAIN/BRANCH AND ALL ASSOCIATED SUPPORT SYSTEMS.
3. REMOVE SUPPLY MAIN/BRANCH AND ALL ASSOCIATED SUPPORT SYSTEMS.
4. EXISTING RETURN AIR RISER SHALL REMAIN, BRANCH DUCT SHOULD BE REMOVED TO THE DOWNSTREAM SIDE OF THE ELBOW TURNING UPWARD.
5. EXISTING SUPPLY AIR RISER SHALL REMAIN, BRANCH DUCT SHOULD BE REMOVED TO THE DOWNSTREAM SIDE OF THE ELBOW TURNING UPWARD.
6. REMOVE LOUVER CONNECTION AT AREAWELL AND TEMPORARY CAP WALL OPENING TO BE MODIFIED AS PART OF NEW WORK.
7. REMOVE LPS AND LPC BRANCH PIPING BACK TO MAIN. RISER SHALL BE REMOVED TO FLOOR PENETRATION AND CAPPED AT TUNNEL ROOF. REMOVE ALL ASSOCIATED SUPPORT STRUCTURE.
8. REMOVE LOW PRESSURE STEAM AND LOW PRESSURE CONDENSATE MAINS SERVING BOTH THE PERIMETER HOT WATER SYSTEM AND AHU COILS WITHIN TUNNEL. REMOVE ALL ASSOCIATED SUPPORT STRUCTURE.
9. REMOVE LPS/LPR BRANCH PIPING UP TO RADIATION ABOVE. PATCH FLOOR OPENING WITH CONCRETE.
10. REMOVE ALL BRANCH LPS/LPC CONNECTED TO VENTILATION UNIT AND ALL ASSOCIATED ACCESSORIES.
11. REMOVE ALL PNEUMATIC CONTROLS PANELS, CONTROL DEVICES AND TUBING ASSOCIATED WITH VENTILATION UNIT CONTROLS.
12. FOR DIRECT BURIED PIPING, CAP BRANCHES AT WALL/FLOOR PENETRATION ON BOTH ENDS. ALL PIPING BELOW SLAB WILL BE ABANDONED IN PLACE. PATCH FLOOR OPENING WATER TIGHT AS REQUIRED.
13. REMOVE VACUUM PUMP AND ALL ASSOCIATED PIPING AND ACCESSORIES BACK TO CONNECTIONS AT MAINS.
14. REMOVE AREA WELL DRAIN AND ASSOCIATED SANITARY PIPING AT DRAIN EXIT AND TEMPORARILY CAP. PREPARE FOR A NEW CONNECTION WHEN NEW AREA WELL IS INSTALLED.

GENERAL NOTES:

1. THE TUNNEL IS HEATED AT VARIOUS LOCATIONS BY BARE ELEMENT RADIATION. THIS SHALL BE REMOVED FROM THE TUNNEL ALONG WITH THE STEAM/CONDENSATE MAINS SHOWN. NOT ALL RADIATION WAS VARIFIED. CONTRACTOR TO ASSUME 25 SECTIONS OF 10' RADIATION THROUGHOUT THE TUNNEL SYSTEM.

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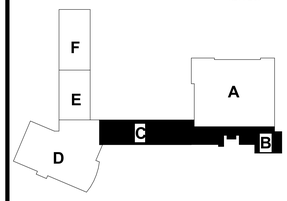

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Job Number	21002885.03
Drawn	J.D.C.
Checked	M.L.
Approved	B.P.

SHEET TITLE

BASEMENT DEMOLITION - MECHANICAL - AREA B & C

SCALE

Scale: As indicated

SHEET NUMBER

M100B

21002885.03 1/27/2022 5:07:51 PM ESSER HVAC Improvements - Flinn Middle School

PHASING NOTES:

1. PERIMETER RADIATION LPS/LPR SHALL REMAIN ACTIVE IN TUNNEL FOR THE FIRST PHASE OF CONSTRUCTION FOR HEATING OF THE BUIDLING.

KEYNOTES: (#)

1. REMOVE RETURN MAIN/BRANCH AND ALL ASSOCIATED SUPPORT SYSTEMS.
2. REMOVE SUPPLY MAIN/BRANCH AND ALL ASSOCIATED SUPPORT SYSTEMS.
3. EXISTING RETURN AIR RISER SHALL REMAIN. BRANCH DUCT SHOULD BE REMOVED TO THE DOWNSTREAM SIDE OF THE ELBOW TURNING UPWARD.
4. EXISTING SUPPLY AIR RISER SHALL REMAIN. BRANCH DUCT SHOULD BE REMOVED TO THE DOWNSTREAM SIDE OF THE ELBOW TURNING UPWARD.
5. REMOVE LPS AND LPC BRANCH PIPING BACK TO MAIN. RISER SHALL BE REMOVED TO FLOOR PENETRATION AND CAPPED AT TUNNEL ROOF. REMOVE ALL ASSOCIATED SUPPORT STRUCTURE.
6. REMOVE LOW PRESSURE STEAM AND LOW PRESSURE CONDENSATE MAINS SERVING BOTH THE PERIMETER HOT WATER SYSTEM AND AHU COILS WITHIN TUNNEL. REMOVE ALL ASSOCIATED SUPPORT STRUCTURE.
7. REMOVE LPS/LPR BRANCH PIPING UP TO RADIATION ABOVE. PATCH FLOOR OPENING WITH CONCRETE.
8. FOR DIRECT BURIED PIPING, CAP BRANCHES AT WALL/FLOOR PENETRATION ON BOTH ENDS. ALL PIPING BELOW SLAB WILL BE ABANDONED IN PLACE. PATCH FLOOR OPENING WATER TIGHT AS REQUIRED.
9. REMOVE VACUUM PUMP AND ASSOCIATED PIPING AND ACCESSORIES IN TUNNEL BACK TO SOURCE.

GENERAL NOTES:

1. THE TUNNEL IS HEATED AT VARIOUS LOCATIONS BY BARE ELEMENT RADIATION. THIS SHALL BE REMOVED FROM THE TUNNEL ALONG WITH THE STEAM/CONDENSATE MAINS SHOWN. NOT ALL RADIATION WAS VARIFIED. CONTRACTOR TO ASSUME 25 SECTIONS OF 10' RADIATION THROUGHOUT THE TUNNEL SYSTEM.

1 BASEMENT DEMOLITION - MECHANICAL - AREA D

1/8" = 1'-0"

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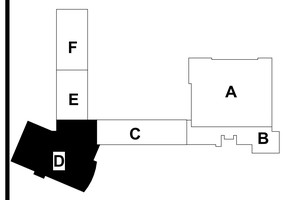

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Approved	B.P.

SHEET TITLE

BASEMENT DEMOLITION - MECHANICAL - AREA D

SCALE

Scale: As indicated

SHEET NUMBER

M100D

21002885.03 1/27/2022 5:07:56 PM ESSER HVAC Improvements - Flinn Middle School

PHASING NOTES:

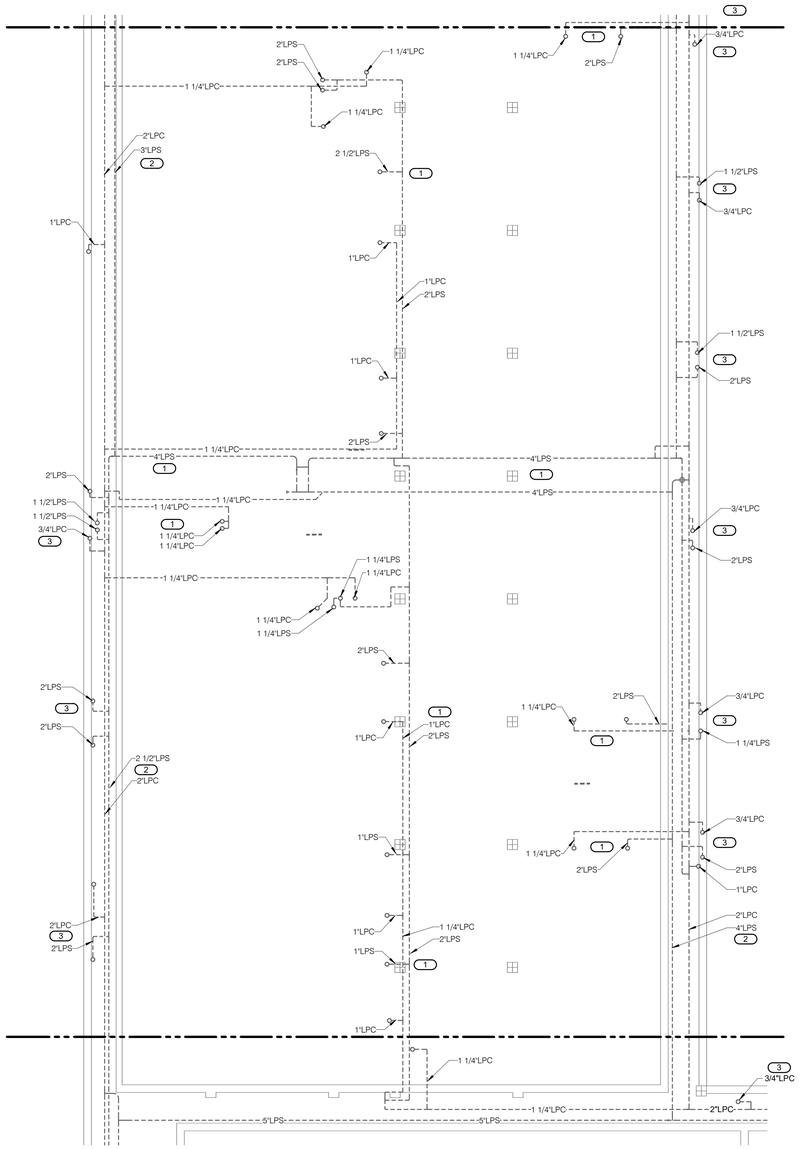
1. PERIMETER RADIATION LPS/LPR SHALL REMAIN ACTIVE IN TUNNEL FOR THE FIRST PHASE OF CONSTRUCTION FOR HEATING OF THE BUIDLING.

KEYNOTES: (#)

1. REMOVE LPS/LPR BRANCH PIPING BACK TO MAIN. ANY BRANCHES SERVING DIRECT BURIED PIPING SHALL BE CAPPED AT THE TUNNEL WALL. SEAL PENETRATION WATER TIGHT.
2. REMOVE LOW PRESSURE STEAM AND LOW PRESSURE CONDENSATE MAINS SERVING BOTH THE PERIMETER STEAM SYSTEM.
3. REMOVE LPS/LPR BRANCH PIPING UP TO RADIATION IN TUNNEL. PATCH FLOOR OPENING WITH CONCRETE.
4. STEAM RADIATION SERVING THE TUNNEL IS NOT SHOWN BUT SHALL BE REMOVED INCLUDING ALL ASSOCIATED BRANCH STEAM AND CONDENSATE PIPING.

GENERAL NOTES:

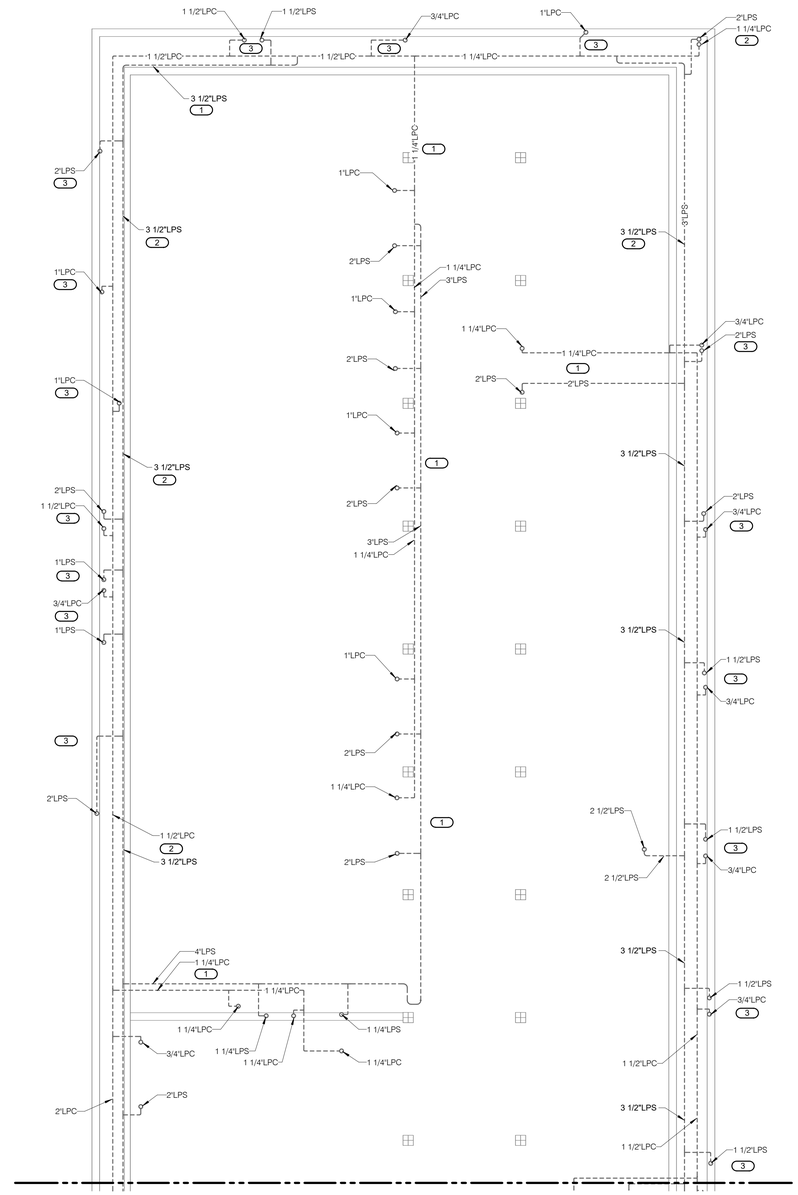
1. THE TUNNEL IS HEATED AT VARIOUS LOCATIONS BY BARE ELEMENT RADIATION. THIS SHALL BE REMOVED FROM THE TUNNEL ALONG WITH THE STEAM/CONDENSATE MAINS SHOWN. NOT ALL RADIATION WAS VARIFIED. CONTRACTOR TO ASSUME 25 SECTIONS OF 10' RADIATION THROUGHOUT THE TUNNEL SYSTEM.



NORTH

1 BASEMENT DEMOLITION - MECHANICAL - AREA E

1/8" = 1'-0"



NORTH

2 BASEMENT DEMOLITION - MECHANICAL - AREA F

1/8" = 1'-0"

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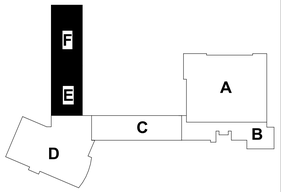
KEY PLAN



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SHEET TITLE

BASEMENT DEMOLITION - MECHANICAL - AREA E & F

SCALE

Scale: **As indicated**

SHEET NUMBER

M100E

21002885.03 1/27/2022 5:08:02 PM ESSER HVAC Improvements - Flinn Middle School

PHASING NOTES:

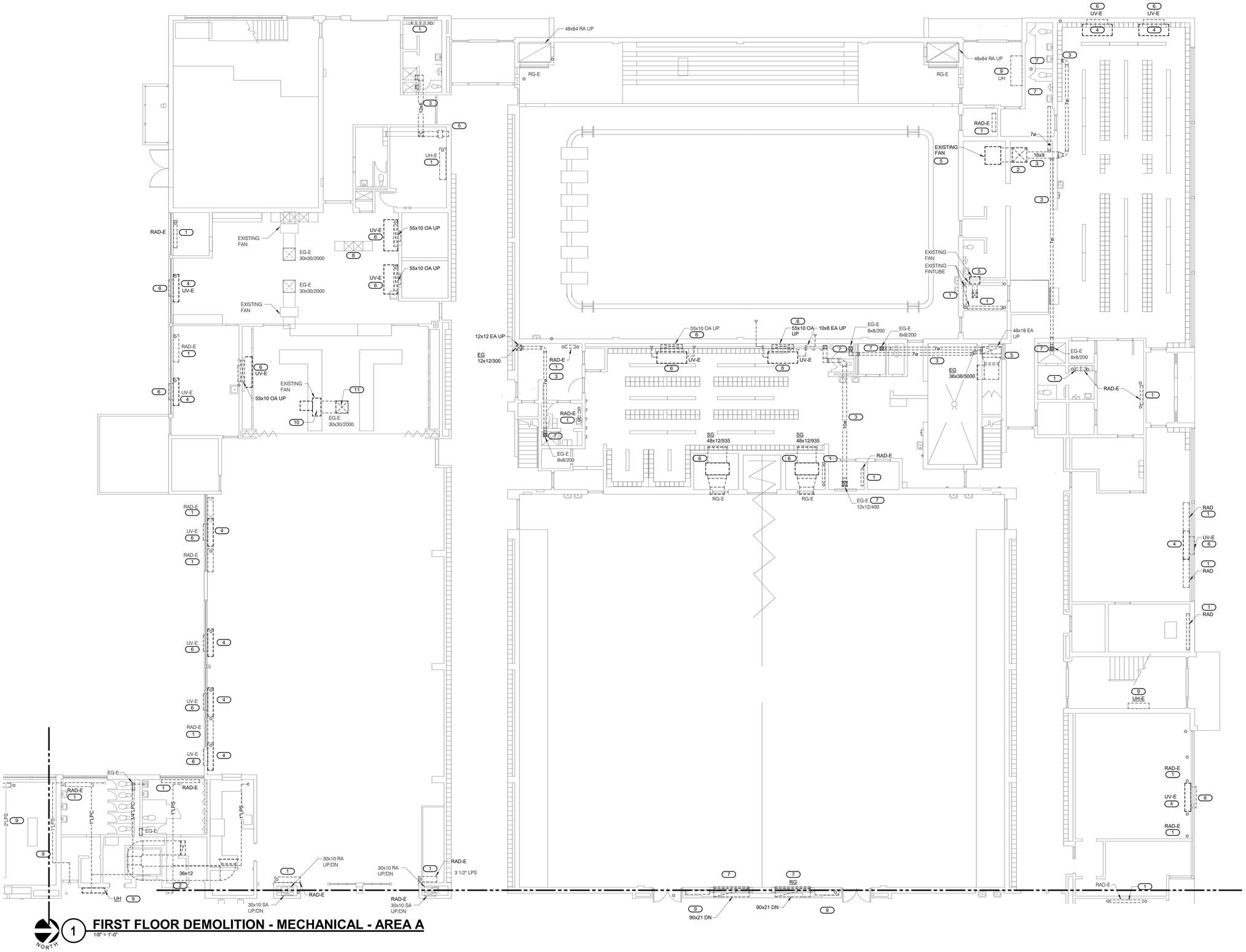
1. PERIMETER RADIATION LPS/LPR SHALL REMAIN ACTIVE IN TUNNEL FOR THE FIRST PHASE OF CONSTRUCTION FOR HEATING OF THE BUIDLING.

KEYNOTES: (#)

1. REMOVE STEAM BASEBOARD AND ALL ASSOCIATED COMPONENTS THROUGH FLOOR. PATCH FLOOR OPENING TO TUNNEL TO MATCH EXISTING CONDITIONS.
2. REMOVE EXISTING EXHAUST FAN AND ALL ASSOCIATED SUPPORT STRUCTURE AND COMPONENTS.
3. REMOVE EXHAUST MAIN/BRANCH DUCT AND ALL ASSOCIATED SUPPORT STRUCTURE.
4. REMOVE UNIT VENTILATOR AND ALL ASSOCIATED COMPONENTS AND MOUNTING.
5. REMOVE EXHAUST FAN, EXHAUST DUCT AND ALL ASSOCIATED COMPONENTS.
6. REMOVE UNIT VENTILATOR OA DUCT AND ALL ASSOCIATED SUPPORTS AND COMPONENTS. EXISTING GRILLE AND DUCT THROUGH WALL TO REMAIN. CAP AND INSULATE OA DUCT AT WALL PENETRATION. REFER TO ARCH. PLANS FOR COVERING OF OA OPENING AT WALL FOR UNIT VENTILATORS WHERE OA GOES TO ROOF, REMOVE DUCT AND THROUGH ROOF PENETRATION. REFER TO ARCH. PLANS FOR CURB CAP.

KEYNOTES: (#)

7. EXISTING EXHAUST GRILLE TO REMAIN AT WALL. REMOVE RETURN DUCT TO THE EXTENT POSSIBLE IN CHASE UP TO UNIT BEING REMOVED.
8. REMOVE RETURN GRILLES IN CEILING.
9. REMOVE STEAM CABINET HEATER AND ALL ASSOCIATED BRANCH STEAM AND CONDENSATE PIPING. PATCH OPENINGS IN FLOOR TO MATCH EXISTING.
10. EXISTING 2,000 CFM EXHAUT FAN TO BE REMOVED, INCLUDING CONNECTED DUCTWORK, SUPPORT STRUCTURE, POWER AND CONTROL WIRING CONNECTIONS. PATCH ROOF AND CEILING OPENINGS OPENINGS, FINISH TO MATCH EXISTING.
11. EXISTING 30x30 EXHAUST GRILLE TO BE REMOVED INCLUDING DUCTWORK CONNECTIONS TO EXHAUST FAN.



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

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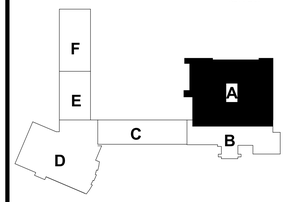
KEY PLAN



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REVISIONS

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SHEET INFORMATION

Issue	**BID DOCUMENTS**
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Job Number	**21002885.03**
Drawn	**J.D.C.**
Checked	**M.L.**
Approved	**B.P.**

SHEET TITLE

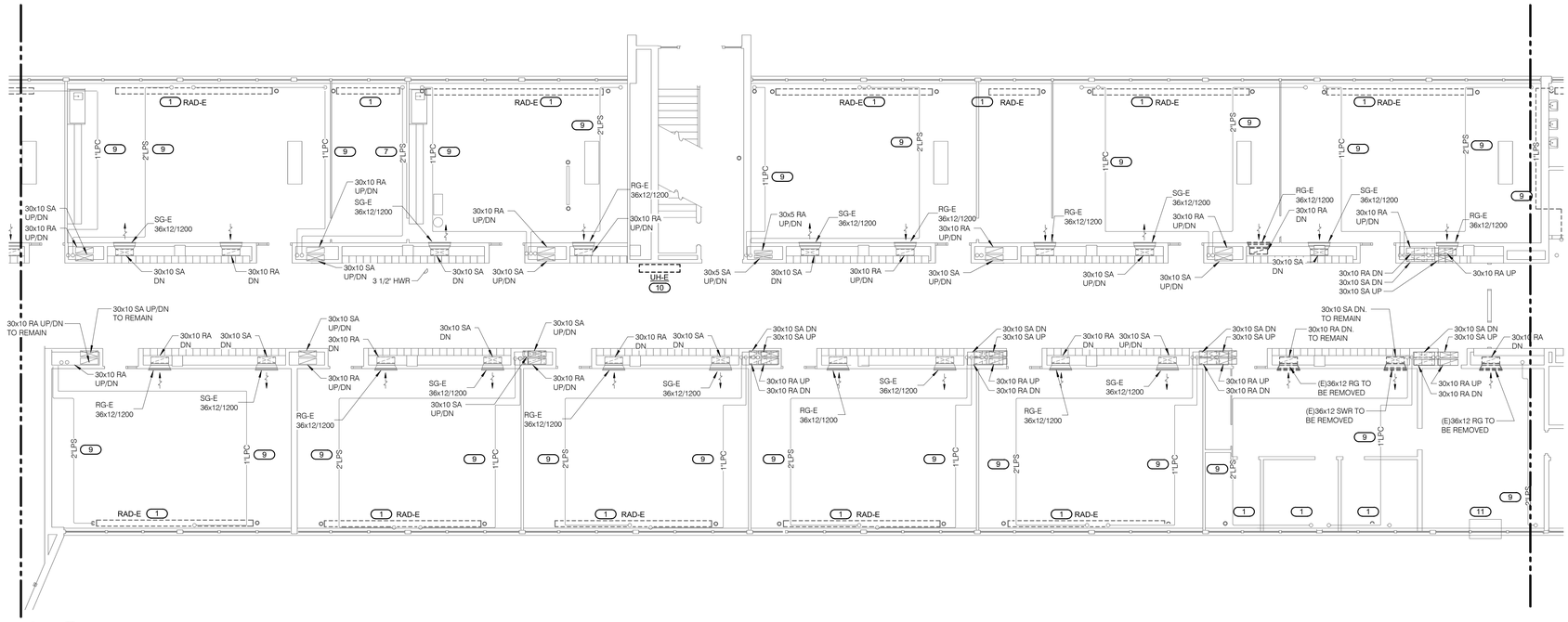
FIRST FLOOR DEMOLITION - MECHANICAL - AREA A

SCALE

Scale: **As indicated**

SHEET NUMBER

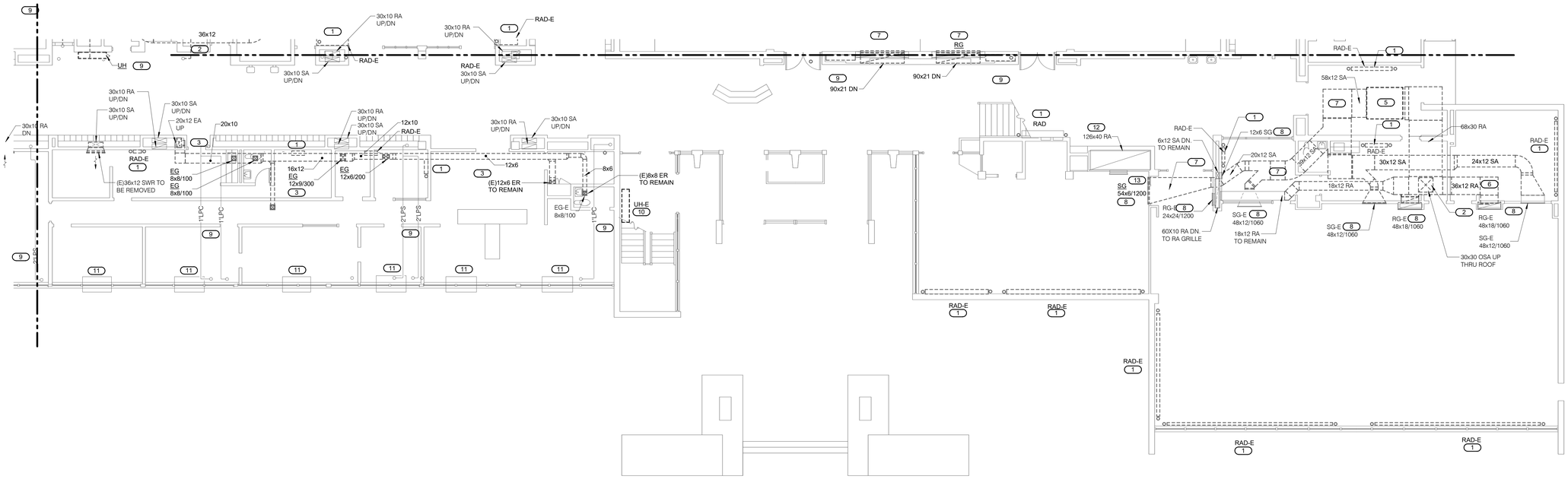
M101A



1 FIRST FLOOR DEMOLITION - MECHANICAL - AREA C

1/8" = 1'-0"

NORTH



2 FIRST FLOOR DEMOLITION - MECHANICAL - AREA B

1/8" = 1'-0"

NORTH

PHASING NOTES:

1. PERIMETER RADIATION LPS/LPR SHALL REMAIN ACTIVE IN TUNNEL FOR THE FIRST PHASE OF CONSTRUCTION FOR HEATING OF THE BUIDLING.

KEYNOTES: #

1. REMOVE STEAM BASEBOARD AND ALL ASSOCIATED COMPONENTS THROUGH FLOOR. REFER TO ARCH. PLANS FOR PATCHING REQUIREMENTS.
2. EXISTING 30x30 OSA DUCT UP THRU ROOF TO BE REMOVED, ROOF OPENING TO BE PATCHED BY G.C.
3. REMOVE EXHAUST MAIN/BRANCH DUCT AND ALL ASSOCIATED SUPPORT STRUCTURE.
4. REMOVE RETURN GRILLE, RETURN DUCT AND RETURN RISER AND ALL ASSOCIATED COMPONENTS.
5. REMOVE EXISTING LIBRARY AIR HANDLING UNIT, PIPING AND ALL ASSOCIATED CONTROL EQUIPMENT, SUPPORT STRUCTURE AND COMPONENTS ABOVE THE CEILING.
6. REMOVE RETURN MAIN/BRANCH AND ALL ASSOCIATED SUPPORT SYSTEMS.
7. REMOVE SUPPLY MAIN/BRANCH TO THE EXTENT POSSIBLE AND ALL ASSOCIATED SUPPORT SYSTEMS.
8. EXISTING SUPPLY/RETURN GRILLES TO REMAIN.
9. EXISTING LPS/LPC IN CEILING SERVING RADIATION ON SECOND FLOOR SHALL BE ABANDONED ABOVE THE CEILING AND IN CORRIDOR CHASE DUE TO INACCESSIBILITY OF COMPONENTS.
10. REMOVE STEAM CABINET HEATER AND ALL ASSOCIATED BRANCH STEAM AND CONDENSATE PIPING. PATCH OPENINGS IN FLOOR TO MATCH EXISTING.
11. EXISTING THROUGH THE WALL PTAC UNIT TO REMAIN IN ZONE FOR SUMMER COOLING.
12. REMOVE RETURN DUCT RISER TO ALLOW FOR NEW SCOPE TO BE INSTALLED IN CHASE. REFER TO ARCH. PLANS FOR WALL PATCHING.
13. REMOVE RETURN GRILLE AT WALL. PATCH WALL OPENING TO MATCH EXISTING.

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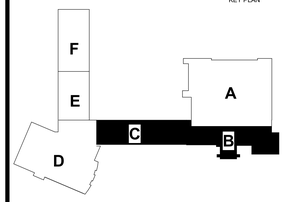
KEY PLAN



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REVISIONS

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Issue	**BID DOCUMENTS**
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Job Number	**21002885.03**
Drawn	**J.D.C.**
Checked	**M.L.**
Approved	**B.P.**

SHEET TITLE

FIRST FLOOR DEMOLITION - MECHANICAL - AREA B & C

SCALE

Scale: **As indicated**

SHEET NUMBER

M101B

PHASING NOTES:

1. PERIMETER RADIATION LPS/LPR SHALL REMAIN ACTIVE IN TUNNEL FOR THE FIRST PHASE OF CONSTRUCTION FOR HEATING OF THE BUIDLING.

KEYNOTES: #

1. REMOVE UNIT VENTILATOR, BRANCH STEAM PIPING, CONDENSATE PIPING AND ALL ASSOCIATED SUPPORT STRUCTURE AND COMPONENTS. INSULATE AND CAP OA OPENING. REFER TO ARCH. PLANS.
2. REMOVE RADIATION, BRANCH STEAM PIPING, CONDENSATE PIPING AND ALL ASSOCIATED SUPPORT STRUCTURE AND COMPONENTS. REFER TO ARCH. PLANS FOR PATCHING.
3. REMOVE VENTILATION UNIT AND ALL ASSOCIATED STEAM PIPING, CONDENSATE PIPING, SUPPLY/RETURN AND/OR OUTSIDE AIR DUCTWORK AND ASSOCIATED HANGERS AND COMPONENTS.
4. REMOVE EXHAUST FAN, EXAUST DUCTWORK, EXHAUST GRILLE AND ALL ASSOCIATED HANGERS AND COMPONENTS. REFER TO ARCH. PLANS FOR PATCHING.
5. REMOVE RETURN GRILLE AND ASSOCIATED DUCTWORK. REFER TO ARCHITECTURAL PLANS FOR WALL PATCHING.
6. REMOVE EXHAUST GRILLE AND EXHAUST DUCT. REFER TO ARCHITECTURAL PLAN FOR WAL PATCHING.
7. REMOVE STEAM CABINET HEATER AND ALL ASSOCIATED BRANCH STEAM AND CONDENSATE PIPING. PATCH OPENINGS IN FLOOR TO MATCH EXISTING.
8. REMOVE VACUUM PUMP AND ALL ASSOCIATED PIPING AND ACCESSORIES BACK TO CONNECTIONS AT MAINS.
9. EXISTING SUPPLY REGISTER TO REMAIN.
10. EXISTING RETURN REGISTER TO REMAIN.

1 FIRST FLOOR DEMOLITION - MECHANICAL - AREA D

1/8" = 1'-0"

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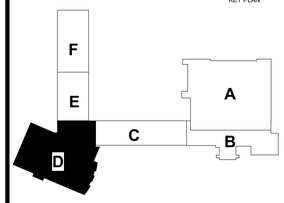
KEY PLAN



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Checked	**M.L.**
Approved	**B.P.**

SHEET TITLE

FIRST FLOOR DEMOLITION - MECHANICAL - AREA D

SCALE

Scale: **As indicated**

SHEET NUMBER

M101D

21002885.03 1/27/2022 5:08:17 PM ESSER HVAC Improvements - Flinn Middle School

PHASING NOTES:

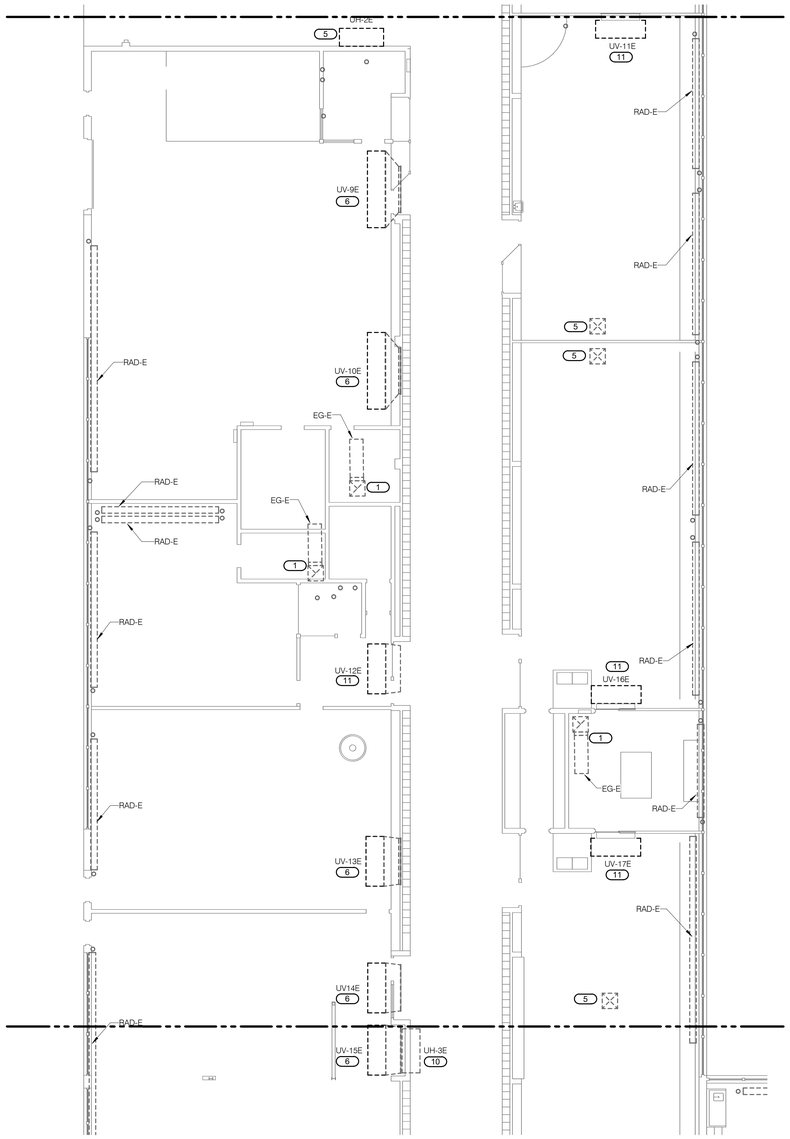
1. PERIMETER RADIATION LPS/LPR SHALL REMAIN ACTIVE IN TUNNEL FOR THE FIRST PHASE OF CONSTRUCTION FOR HEATING OF THE BUIDLING.

KEYNOTES: (#)

1. REMOVE STEAM BASEBOARD AND ALL ASSOCIATED COMPONENTS THROUGH FLOOR. REFER TO ARCH. PLANS FOR PATCHING REQUIRMENTS.
2. REMOVE EXISTING EXHAUST FAN, EXHAUST RISER THROUGH ROOF AND ALL ASSOCIATED BRANCH DUCTWORK AND GRILLES INCLUDING SUPPORTS STRUCTURE AND COMPONENTS. REFER TO ARCHTECTURAL PLANS FOR PATCHING OF ROOF.

KEYNOTES: (#)

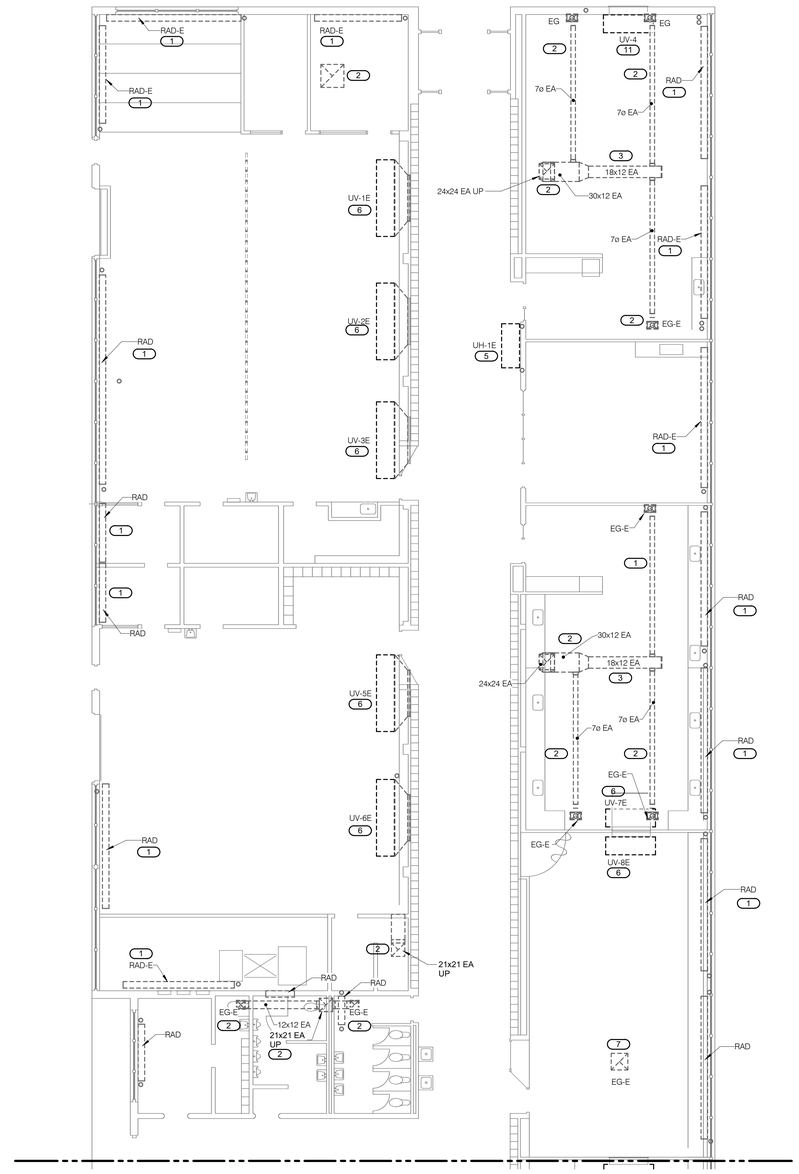
1. REMOVE STEAM BASEBOARD AND ALL ASSOCIATED COMPONENTS THROUGH FLOOR. PATCH FLOOR OPENING TO TUNNEL TO MATCH EXISTING CONDITIONS.
2. REMOVE EXHAUST DUCT AND ALL ASSOCIATED COMPONENTS. REFER TO ARCH. PLANS FOR ASSOCIATED ROOF PATCHING WHERE APPLICABLE.
3. REMOVE EXHAUST MAIN/BRANCH DUCT AND ALL ASSOCIATED SUPPORT STRUCTURE.
4. REMOVE RETURN GRILLE. RETURN DUCT AND RETURN RISER AND ALL ASSOCIATED COMPONENTS.
5. REMOVE STEAM CABINET HEATER AND ALL ASSOCIATED BRANCH STEAM AND CONDENSATE PIPING. PATCH OPENINGS IN FLOOR TO MATCH EXISTING.
6. REMOVE UNIT VENTILATOR, OA DUCT AND ALL ASSOCIATED SUPPORTS AND COMPONENTS. EXISTING GRILLE AND DUCT THROUGH WALL TO REMAIN. REFER TO ARCH. PLANS FOR COVERING OF OA OPENING AT WALL.
7. REMOVE EXHAUST DUCT AND ALL ASSOCIATED COMPONENTS. REFER TO ARCH. PLANS FOR ASSOCIATED ROOF PATCHING WHERE APPLICABLE.



NORTH

1 FIRST FLOOR DEMOLITION - MECHANICAL - AREA E

1/8" = 1'-0"



NORTH

2 FIRST FLOOR DEMOLITION - MECHANICAL - AREA F

1/8" = 1'-0"

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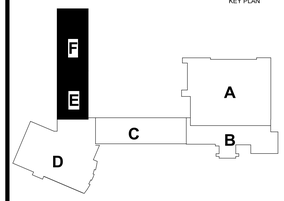

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SHEET INFORMATION

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Job Number	**21002885.03**
Drawn	**J.D.C.**
Checked	**M.L.**
Approved	**B.P.**

SHEET TITLE

FIRST FLOOR DEMOLITION - MECHANICAL - AREA E & F

SCALE

Scale: **As indicated**

SHEET NUMBER

M101E

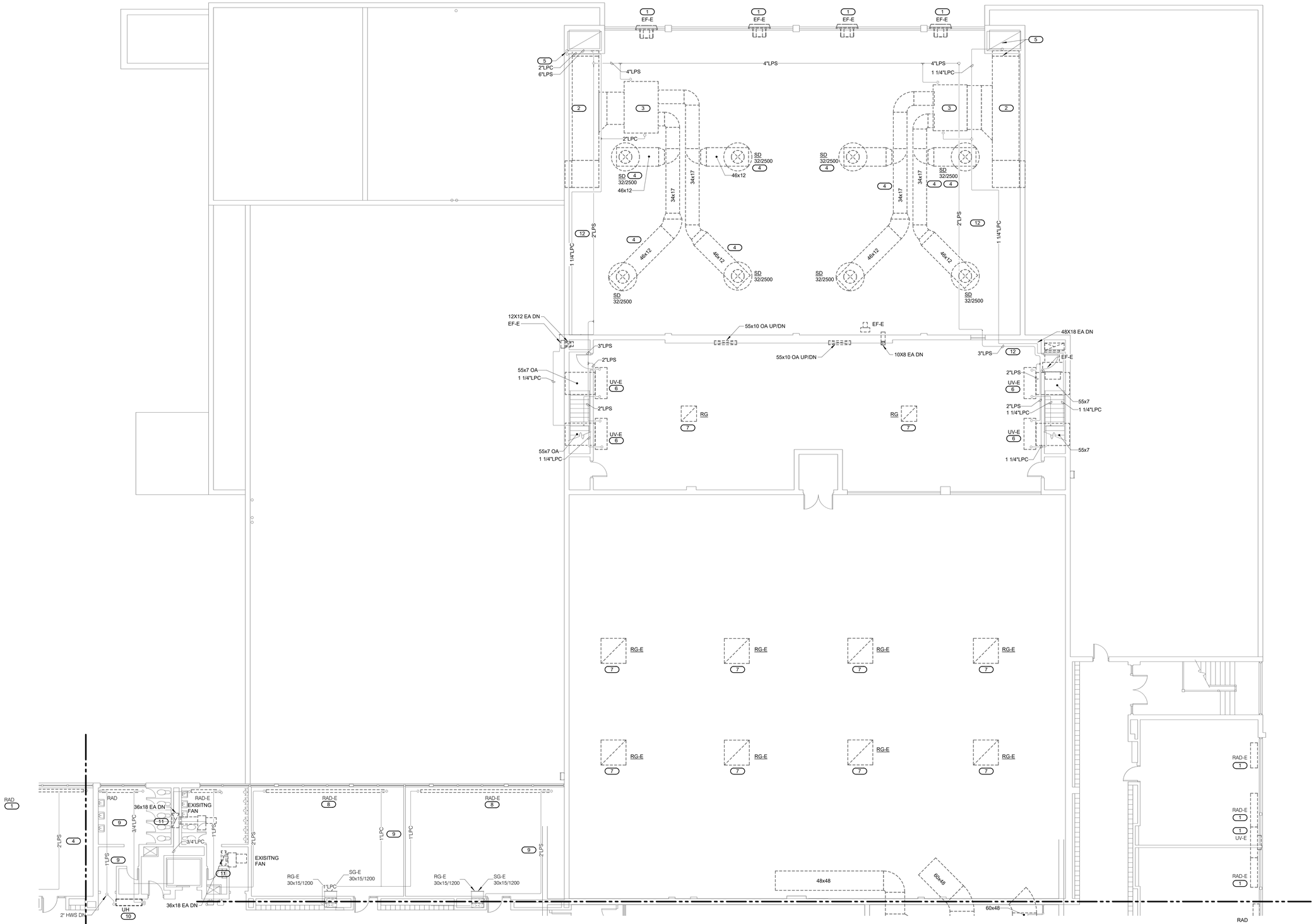
21002885.03 1/27/2022 5:08:21 PM ESSER HVAC Improvements - Flinn Middle School

KEYNOTES: #

1. REMOVE EXISTING WALL EXHAUST FAN AND ALL ASSOCIATED COMPONENTS. REFER TO ARCHITECTURAL PLANS.
2. REMOVE OUTDOOR/SUPPLY DUCT PLENUM AND ALL ASSOCIATED COMONENTS. PROVIDE A 4" INSULATED PANEL OVER LOUVER OPENING AND SEAL WATE TIGHT.
3. REMOVE SUPPLY FAN, SUPPORT STRUCTURE AND ALL ASSOCIATED DUCTWORK CONNECTED TO OA PLENUM.
4. REMOVE SUPPLY DUCT, SUPPLY GRILLE AND ALL ASSOCIATED SUPPORT AND EQUIPMENT.
5. EXISTING DUCT RISER SHALL REMAIN INCLUDING HORIZONTAL SECTION OF DUCT EXITING CHASE. TEMPORARARILY CAP AND PREPARE FOR NEW CONNECTION.
6. REMOVE UNIT VENTILATOR AND ALL ASSOCIATED COMPONENTS AND MOUNTING INSULATE WALL OPENING. REFER TO ARCH. PLANS FOR ADDITIONAL INFORMATION.
7. REMOVE RETURN GRILLE AND WHERE APPLICABLE DUCTWORK UP TO FAN/HOOD FROM CEILING.

KEYNOTES: #

8. REMOVE STEAM BASEBOARD RADIATION AND ALL ASSOCIATED COMPONENTS THROUGH FLOOR. PATCH FLOOR OPENINGS TO FLOOR BELOW TO MATCH EXISTING CONDITIONS.
9. EXISTING LPS/LPC IN CELING SERVING RADIATION ON SECOND FLOOR SHALL BE ABANDONED ABOVE THE CEILING AND IN CORRIDOR CHASE DUE TO INACCESSIBILITY OF COMPONENTS.
10. REMOVE STEAM CABINET HEATER AND ALL ASSOCIATED BRANCH STEAM AND CONDENSATE PIPING. PATCH OPENINGS IN FLOOR TO MATCH EXISTING.
11. REMOVE EXISTING EXHAUST FAN AND ALL ASSOCIATED BRANCH DUCTWORK AND GRILLES INCLUDING SUPPORTS STRUCTURE AND COMPONENTS.



1 SECOND FLOOR DEMOLITION - MECHANICAL - AREA A

1/8" = 1'-0"

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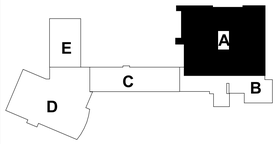
KEY PLAN



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Approved	B.P.

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SECOND FLOOR DEMOLITION - MECHANICAL - AREA A

SCALE

Scale: As indicated

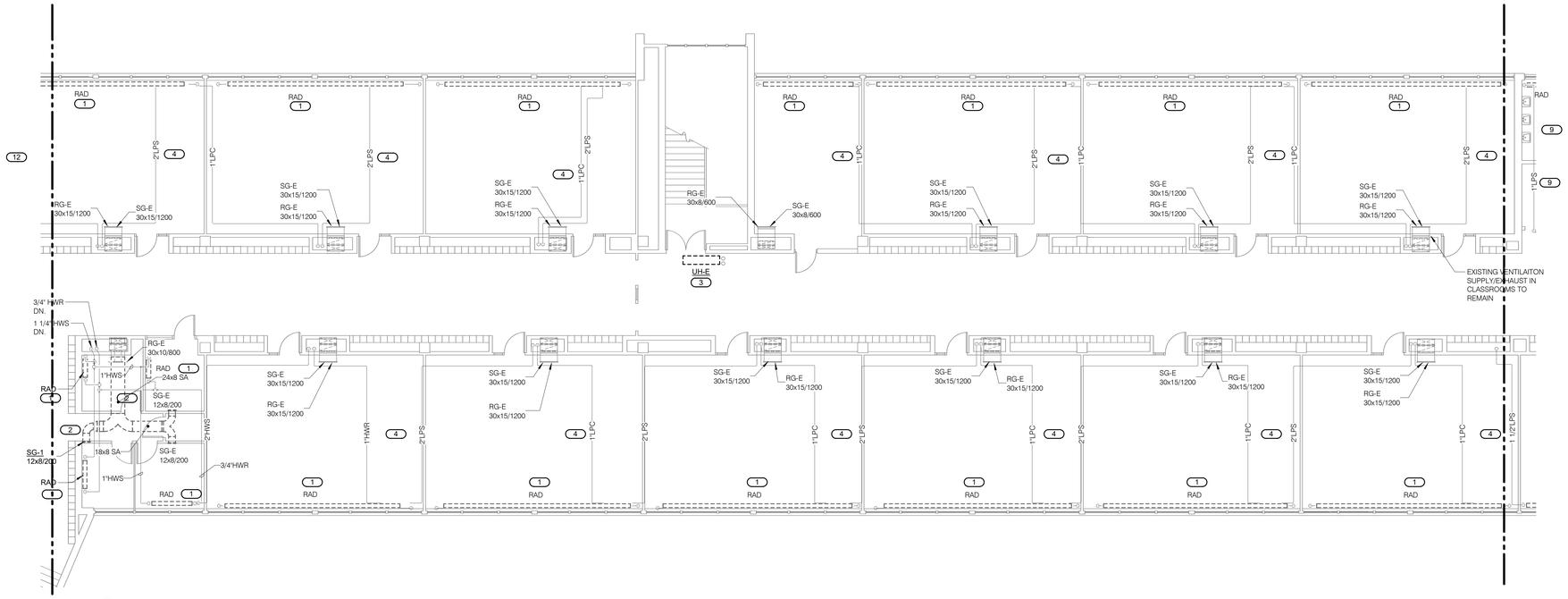
SHEET NUMBER

M102A

21002885.03 1/27/2022 5:08:25 PM ESSER HVAC Improvements - Flinn Middle School

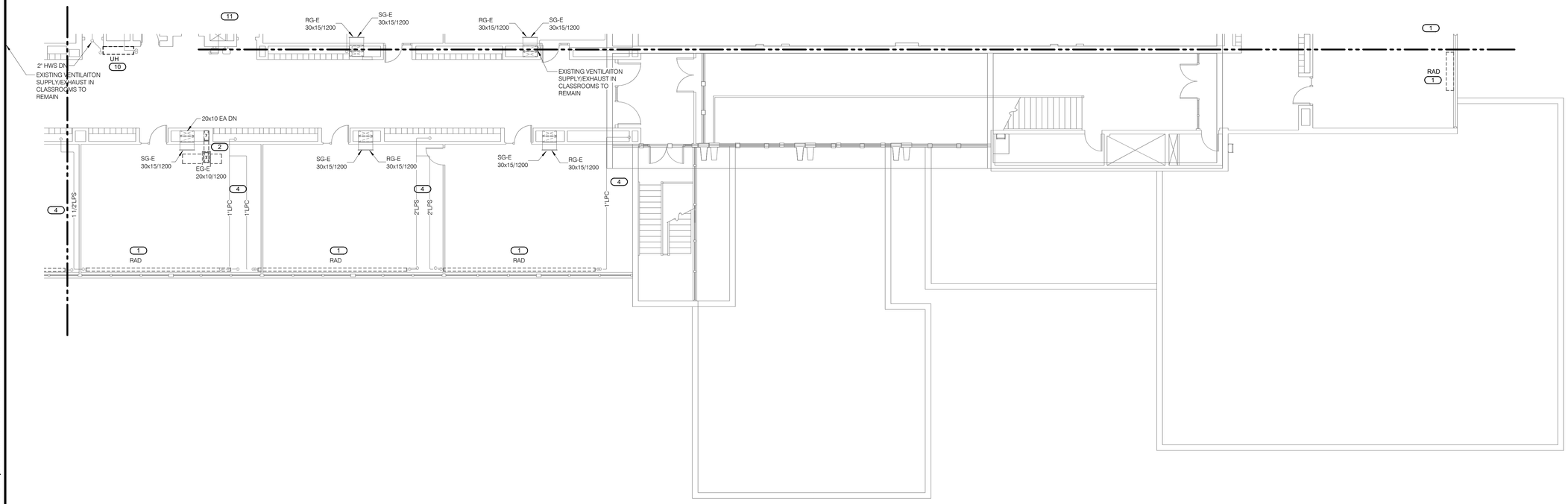
KEYNOTES: (#)

1. REMOVE RADIATION, BRANCH STEAM PIPING, CONDENSATE PIPING AND ALL ASSOCIATED SUPPORT STRUCTURE AND COMPONENTS.
2. REMOVE EXHAUST FAN, EXHAUST DUCTWORK, EXHAUST GRILLE AND ALL ASSOCIATED HANGERS AND COMPONENTS.
3. REMOVE STEAM CABINET HEATER AND ALL ASSOCIATED BRANCH STEAM AND CONDENSATE PIPING. PATCH OPENINGS IN FLOOR TO MATCH EXISTING.
4. EXISTING LPS/LPC IN CEILING SERVING RADIATION SHALL BE ABANDONED IN PLACE ABOVE CEILING AND CORRDOR CHASE DUE TO INACCESSIBLITY OF COMPONENTS. BOTH OPEN ENDS OF ANY ABANDONED PIPE MUST BE CAPPED.



1 SECOND FLOOR DEMOLITION - MECHANICAL - AREA C

1/8" = 1'-0"



2 SECOND FLOOR DEMOLITION - MECHANICAL - AREA B

1/8" = 1'-0"

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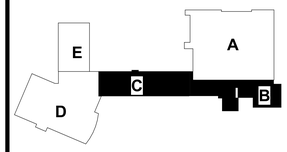

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SHEET TITLE

SECOND FLOOR DEMOLITION - MECHANICAL - AREA B & C

SCALE

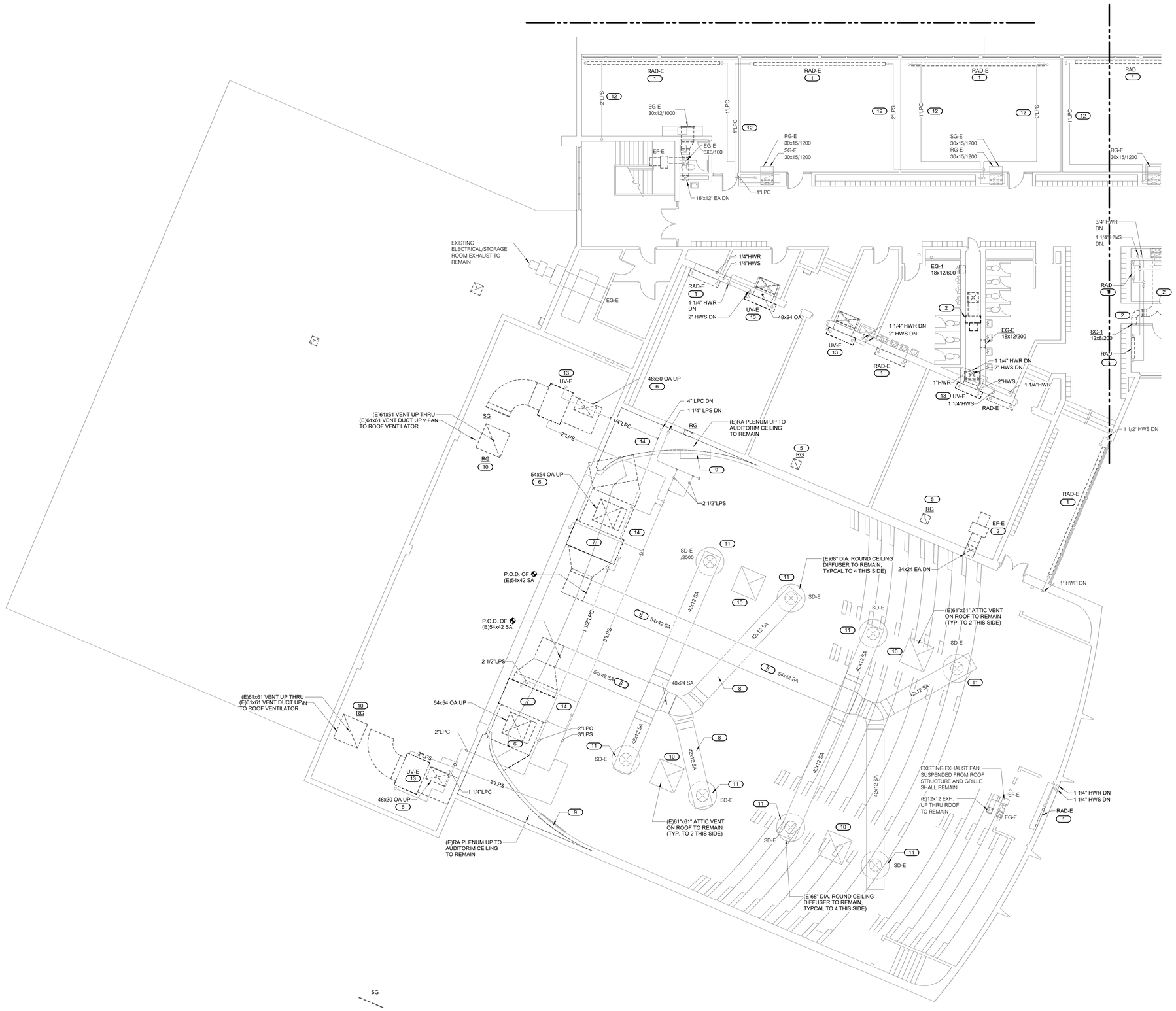
Scale: **As indicated**

SHEET NUMBER

M102B

KEYNOTES: (#)

1. REMOVE STEAM BASEBOARD AND ALL ASSOCIATED COMPONENTS THROUGH FLOOR. PATCH FLOOR OPENING TO TUNNEL TO MATCH EXISTING CONDITIONS.
2. REMOVE EXISTING EXHAUST FAN AND ALL ASSOCIATED SUPPORT STRUCTURE AND COMPONENTS.
3. REMOVE EXHAUST MAIN/BRANCH DUCT AND ALL ASSOCIATED SUPPORT STRUCTURE.
4. EXISTING 28" DIA. ROUND SUPPLY DIFFUSER TO REMAIN.
5. REMOVE RETURN GRILLE IN CEILING.
6. REMOVE OUTDOOR/SUPPLY DUCT PLENUM AND ALL ASSOCIATED COMPONENTS. REFER TO ARCHITECTURAL PLANS FOR ROOF/WALL PATCHING.
7. REMOVE AIR HANLDING UNIT AND ALL ASSOCIATED EQUIPMENT INCLUDING SUPPORT STRUCTURE ABOVE CEILING. REFER TO ARCHITECTURAL PLANS FOR CEILING CONSTRUCTION AND SCOPE OF WORK.
8. EXISTING AUDITORIUM SUPPLY DUCTWORK TO REMAIN. INSPECT DUCT FOR LEAKAGE AND PATCH LEAKS AS NECESSARY.
9. EXISTING EXHAUST WALL GRILLE WITH MOTORIZED DAMPER TO REMAIN.
10. EXISTING 61"x61" ATTIC VENT UP TO EXHAUST FAN ON ROOF TO REMAIN.
11. NOT USED.
12. EXISTING LPS/LPC IN CELING SERVING RADIATION ON SECOND FLOOR SHALL BE ABANDONED ABOVE THE CEILING AND IN CORRIDOR CHASE DUE TO INACCESSIBILITY OF COMPONENTS.
13. REMOVE UNIT VENTILATOR, OUTSIDE AIR DUCT, OUTDOOR AIR HOOD AND ALL ASSOCIATED COMPONENTS. COORDINATE WALL AND ROOF PATCHING WITH THE ARCHITECT.
14. REMOVE LPS/LPR PIPING SERVING AUDITORIUM UNITS AND STAGE LOCATED IN THE CEILING PLENUM AND ALL ASSOCIATED SUPPORT AND COMPONENTS.
15. EXISTING ROOF VENTILATOR ABOVE TO BE REMOVED, INCLUDING ASSOCIATED DUCTWORK AND SIDEWALL GRILLES.



1 SECOND FLOOR DEMOLITION - MECHANICAL - AREA D

1/8" = 1'-0"

NORTH

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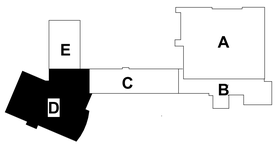
KEY PLAN



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Issue	**BID DOCUMENTS**
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Drawn	**J.D.C.**
Checked	**M.L.**
Approved	**B.P.**

SHEET TITLE

SECOND FLOOR DEMOLITION - MECHANICAL - AREA D

SCALE

Scale: **As indicated**

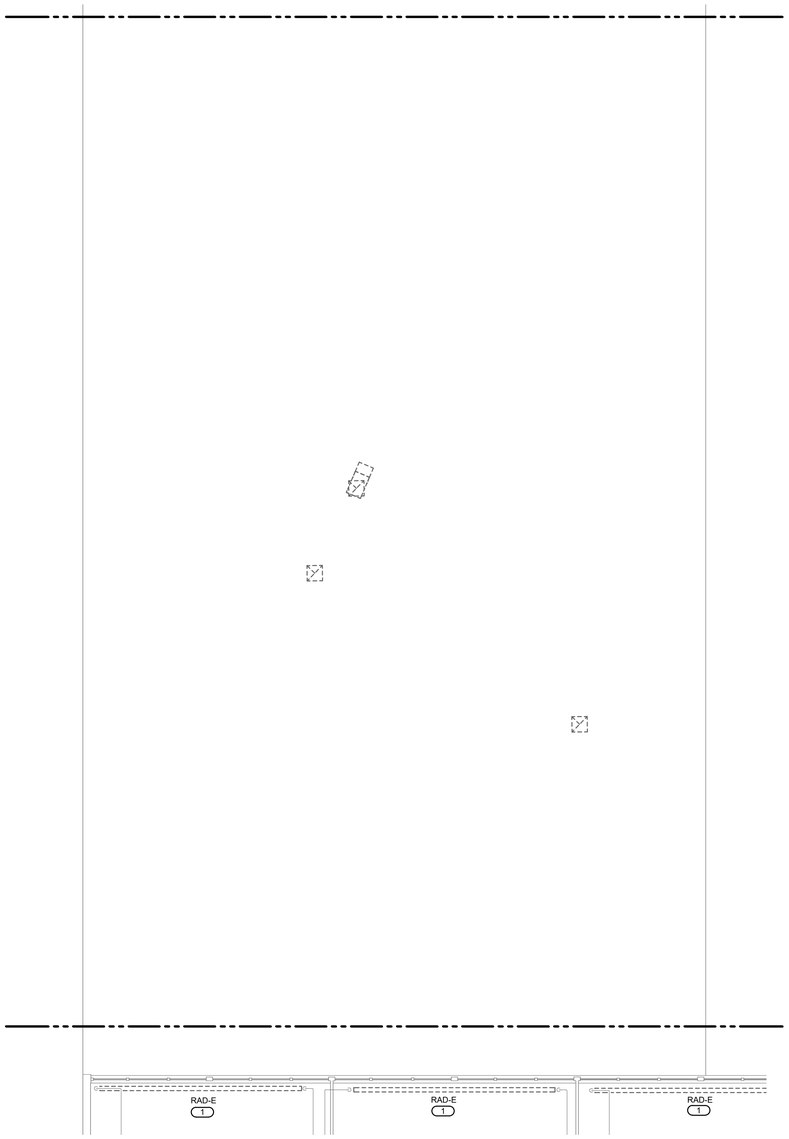
SHEET NUMBER

M102D

21002885.03 1/27/2022 5:08:34 PM ESSER HVAC Improvements - Flinn Middle School

KEYNOTES: (#)

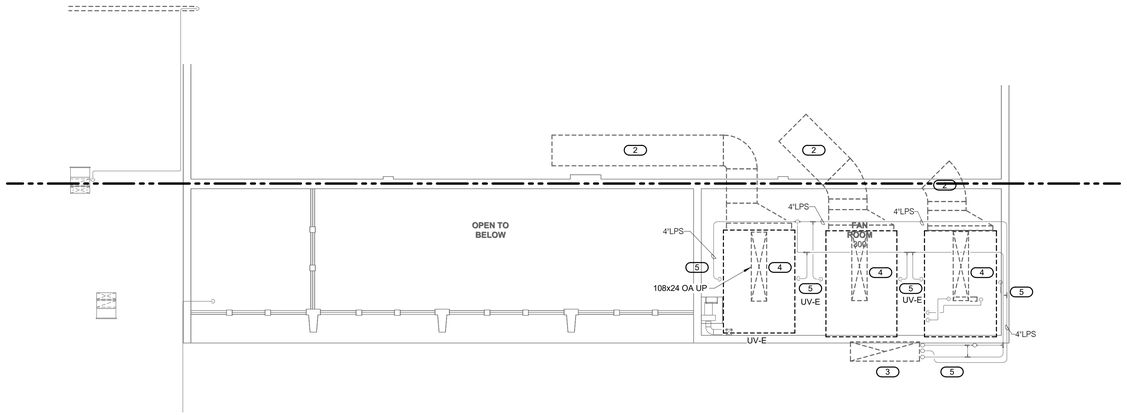
1. REMOVE AIR HANLDING UNIT AND ALL ASSOCIATED EQUIPMENT INCLUDING SUPPORT STRUCTURE.
2. REMOVE ALL SUPPLY DUCT ASSOCIATED WITH AIR HANDLING UNIT AND ALL ASSOCIATED EQUIPMENT.
3. REMOVE EXHAUST AIR DUCT, DAMPER AND ALL ASSOCIATED EQUIPMENT.
4. REMOVE OUSIDE AIR DUCT UP TO ROOF HOOD INCLUDING ROOF HOOD. REFER TO ARCHITECTURAL PLANS FOR ROOF PATCHING REQUIRMENTS.
5. REMOVE LPS/LPC AND ALL ASSOCIATED COMPONENTS BACK TO SOURCE .



NORTH

1 SECOND FLOOR DEMOLITION - MECHANICAL - AREA E

1/8" = 1'-0"



NORTH

2 SECOND FLOOR FAN ROOM DEMOLITION - MECHANICAL

1/8" = 1'-0"

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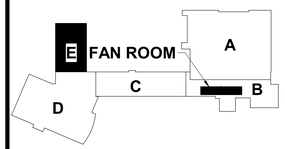

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Approved	B.P.

SHEET TITLE

SECOND FLOOR DEMOLITION - MECHANICAL - AREA E & G

SCALE

Scale: As indicated

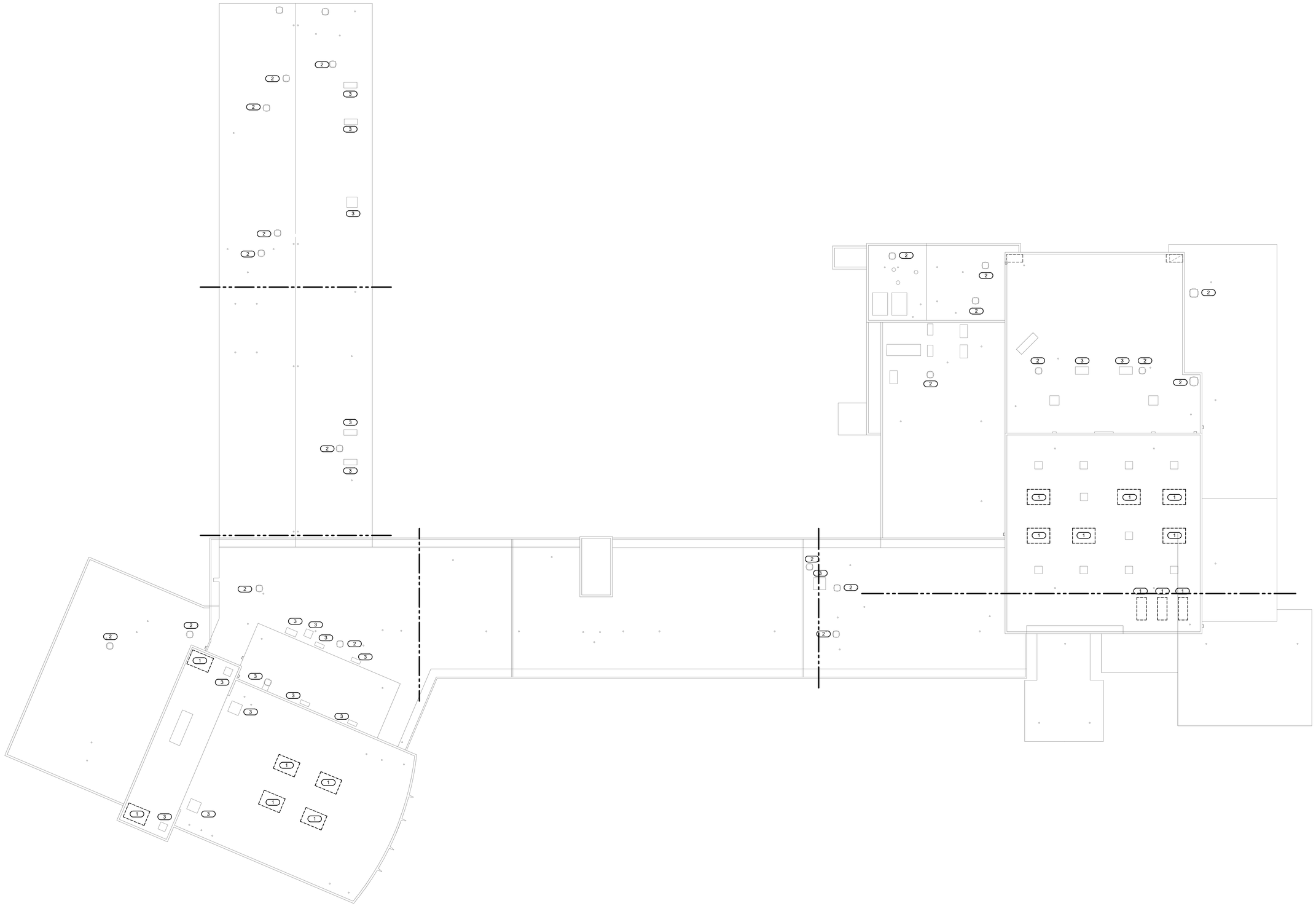
SHEET NUMBER

M102E

21002885.03 1/27/2022 5:08:37 PM ESSER HVAC Improvements - Flinn Middle School

KEYNOTES: #

1. REMOVE RELIEF HOOD/EXHAUST FAN. REFER TO ARCHITECTURAL PLANS FOR PATCHING AND INSULATING OF OPENINGS.
2. REMOVE ROOF EXHAUST FAN. REFER TO ARCHTECTURAL PLANS FOR ROOF PATCHING.
3. REMOVE ROOF HOOD. REFER TO ARCHITECTURAL PLANS FOR ROOF PATCHING.



NORTH

1 **ROOF - DEMOLITION MECHANICAL**
1" = 20'-0"

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SHEET TITLE

ROOF - MECHANICAL DEMOLITION

SCALE

Scale: **1" = 20'-0"**

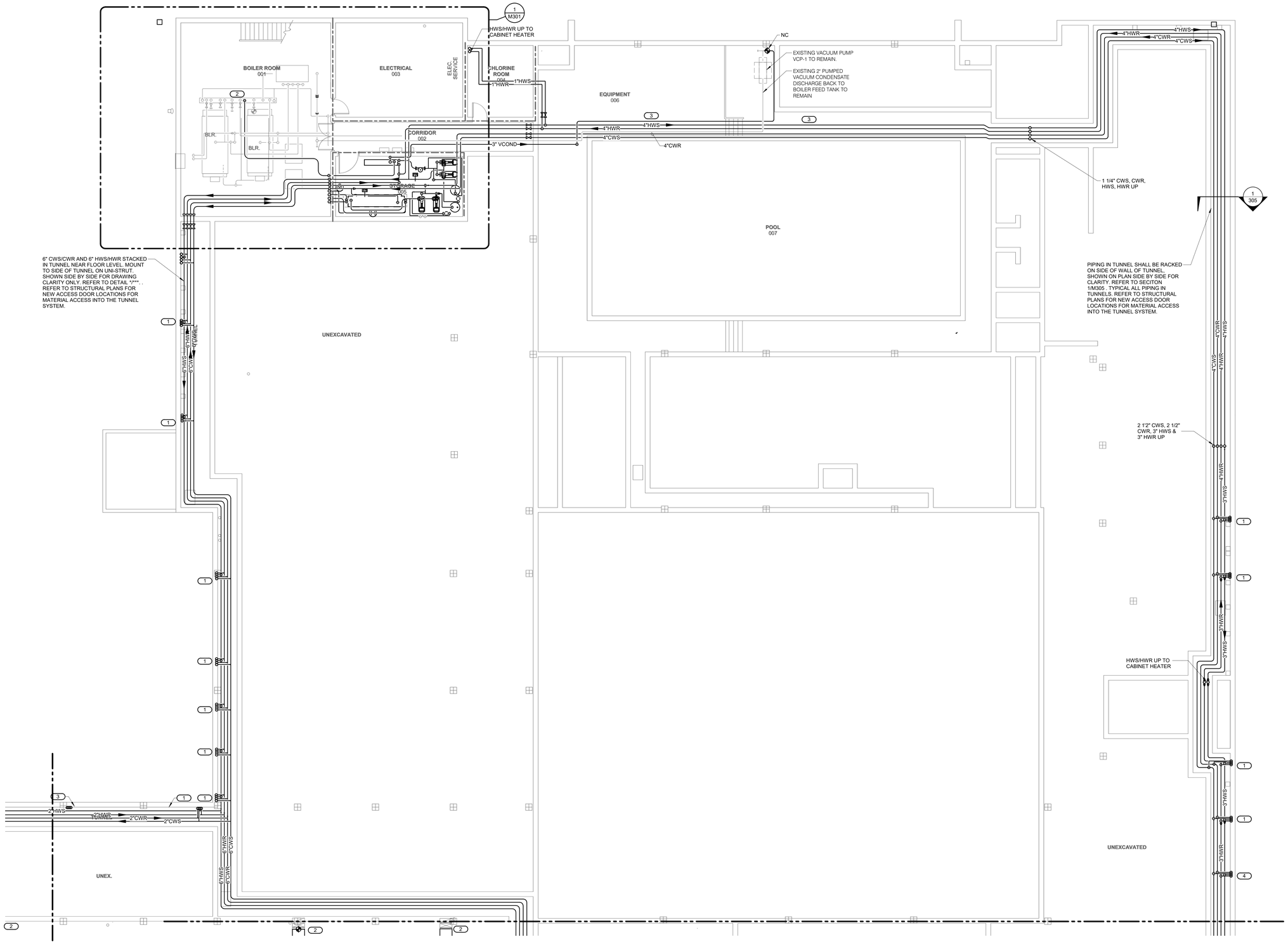
SHEET NUMBER

M103

21002885.03 1/27/2022 5:08:40 PM ESSER HVAC Improvements - Flinn Middle School

KEY NOTES: (#)

1. 3/4" CWS, CWR, HWS & HWR UP TO FCU ABOVE, TYPICAL EACH RISER.
2. 1 1/4" CWS, CWR, AND 1 1/2" HWS, HWR UP TO BCU ABOVE.
3. ROUTED PIPING MAINS AS HIGH AS POSSIBLE IN TUNNEL WALKWAY.



1 BASEMENT FLOOR - MECHANICAL - AREA A

1/8" = 1'-0"

NORTH

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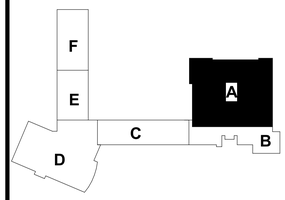
KEY PLAN



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SHEET TITLE

BASEMENT FLOOR - MECHANICAL - AREA A

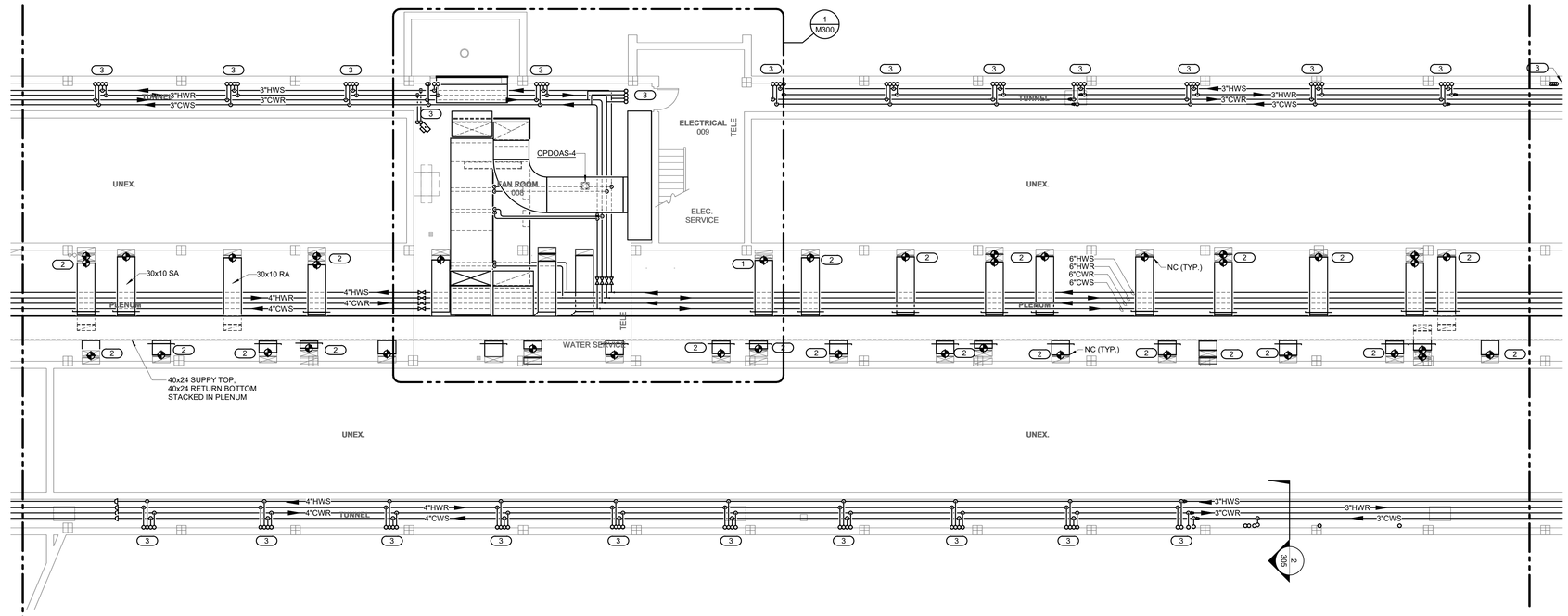
SCALE

Scale: As indicated

SHEET NUMBER

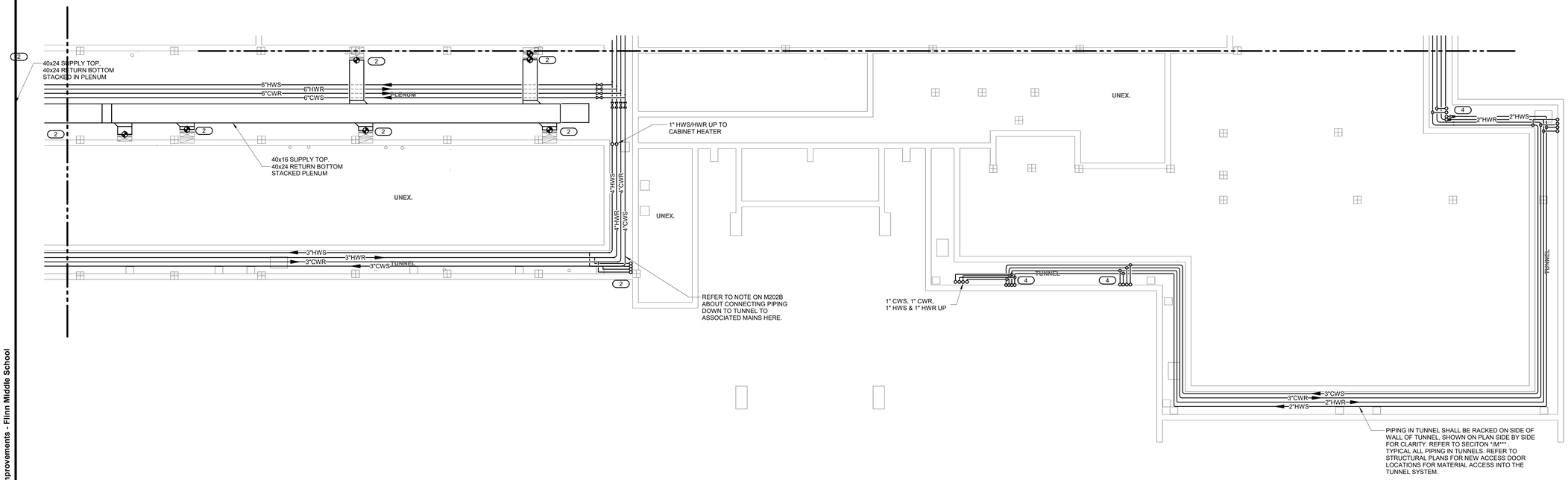
M201A

21002885.03 1/27/2022 5:08:45 PM ESSER HVAC Improvements - Flinn Middle School



1 BASEMENT FLOOR - MECHANICAL - AREA C

1/8" = 1'-0"



2 BASEMENT FLOOR - MECHANICAL - AREA B

1/8" = 1'-0"

SHEET NOTES:

1. THE PIPING FOR THE FOUR-PIPE FAN COIL UNITS AND BLOWER COIL AIR HANDLERS WILL BE ROUTED IN THE EXISTING TUNNELS AND RISERS FOR THE OTHER UNIT.

KEYNOTES: #

1. 30x5 SUPPLY STACKED ABOVE A 30x5 RETURN WITH A BALANCING DAMPER AT MAIN CONNECTION. CONNECT TO EXISTING RISER.
2. 30x10 SUPPLY STACKED ABOVE A 30x10 RETURN WITH A BALANCING DAMPER AT MAIN CONNECTION.
3. 3/4" CWS, CWR, HWS AND HWR CONNECTED TO STACKED MAINS IN TUNNEL. CORE DRILL FLOOR SLAB AND ROUTE UP TO CHASE ENCLOSURE AND TO FAN COIL UNIT ABOVE. MAINS SHOWN ON PLAN SIDE BY SIDE FOR DRAWING CLARITY.

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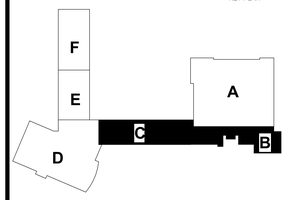
KEY PLAN



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SHEET TITLE

BASEMENT FLOOR - MECHANICAL - AREA B & C

SCALE

Scale: As indicated

SHEET NUMBER

M201B

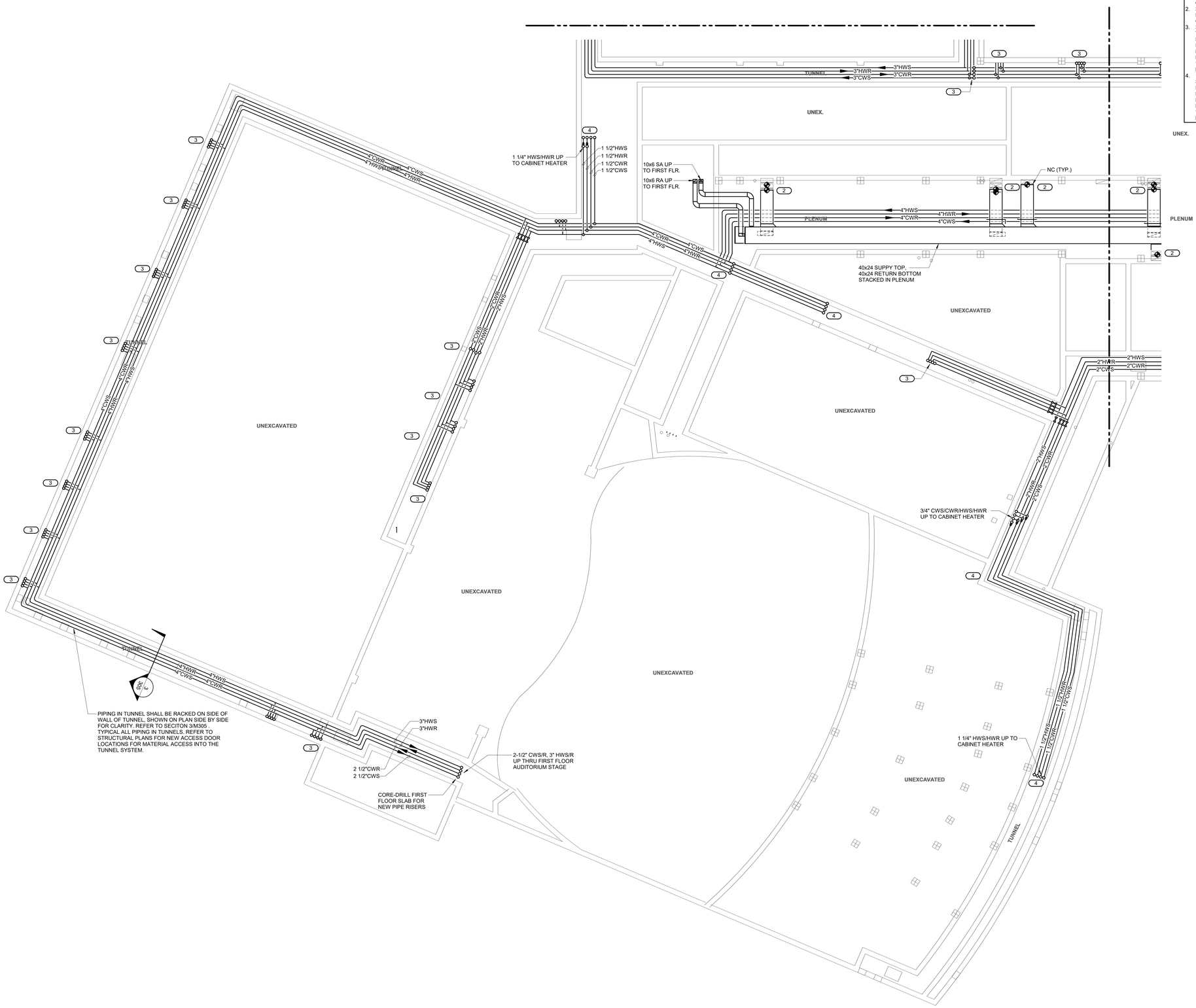
21002885.03 1/27/2022 5:08:53 PM ESSER HVAC Improvements - Flinn Middle School

SHEET NOTES:

1. THE PIPING FOR THE FOUR-PIPE FAN COIL UNITS AND BLOWER COIL AIR HANDLERS WILL BE ROUTED IN THE EXISTING TUNNELS AND RISERS FOR THE OTHER UNIT.

KEYNOTES: #

1. 30x5 SUPPLY STACKED ABOVE A 30x5 RETURN WITH A BALANCING DAMPER AT MAIN CONNECTION. CONNECT TO EXISTING RISER.
2. 30x10 SUPPLY STACKED ABOVE A 30x10 RETURN WITH A BALANCING DAMPER AT MAIN CONNECTION. CONNECT TO EXISTING RISER.
3. 3/4" CWS, CWR, HWS AND HWR CONNECTED TO STACKED MAINS IN TUNNEL. CORE DRILL FLOOR SLAB AND ROUTE UP TO CHASE ENCLOSURE AND TO FAN COIL UNIT ABOVE. MAINS SHOWN ON PLAN SIDE BY SIDE FOR DRAWING CLARITY. REFER TUNNEL SECTION */M*** FOR TYPICAL TUNNEL SECTION AT THIS LOCATION.
4. 1" CWS, CWR, HWS AND HWR CONNECTED TO STACKED MAINS IN TUNNEL. CORE DRILL FLOOR SLAB AND ROUTE UP TO CHASE ENCLOSURE AND TO FAN COIL UNIT ABOVE. MAINS SHOWN ON PLAN SIDE BY SIDE FOR DRAWING CLARITY. REFER TUNNEL SECTION */M*** FOR TYPICAL TUNNEL SECTION AT THIS LOCATION.



1 BASEMENT FLOOR - MECHANICAL - AREA D

1/8" = 1'-0"

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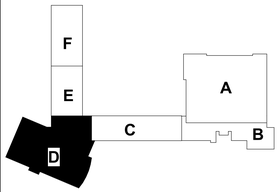
KEY PLAN



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SHEET TITLE

BASEMENT FLOOR - MECHANICAL - AREA D

SCALE

Scale: **As indicated**

SHEET NUMBER

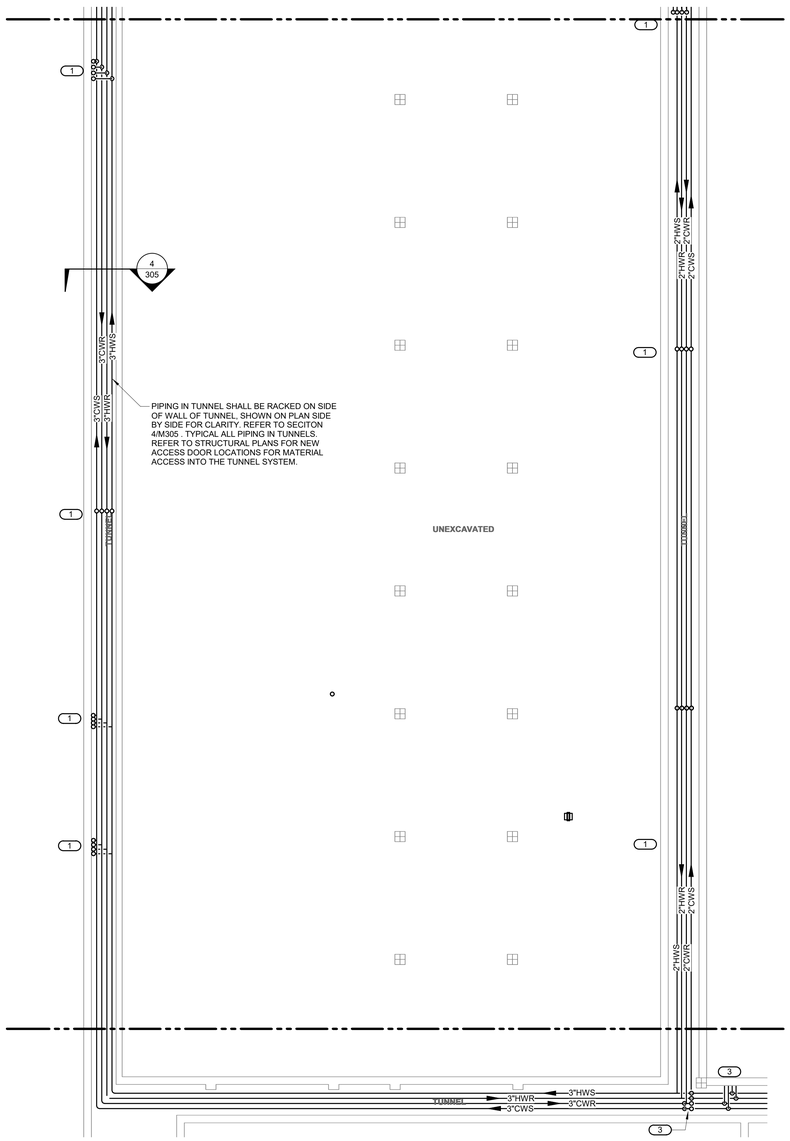
M201D

SHEET NOTES:

1. THE PIPING FOR THE FOUR-PIPE FAN COIL UNITS AND BLOWER COIL AIR HANDLERS WILL BE ROUTED IN THE EXISTING TUNNELS AND RISERS FOR THE OTHER UNIT.

KEYNOTES: #

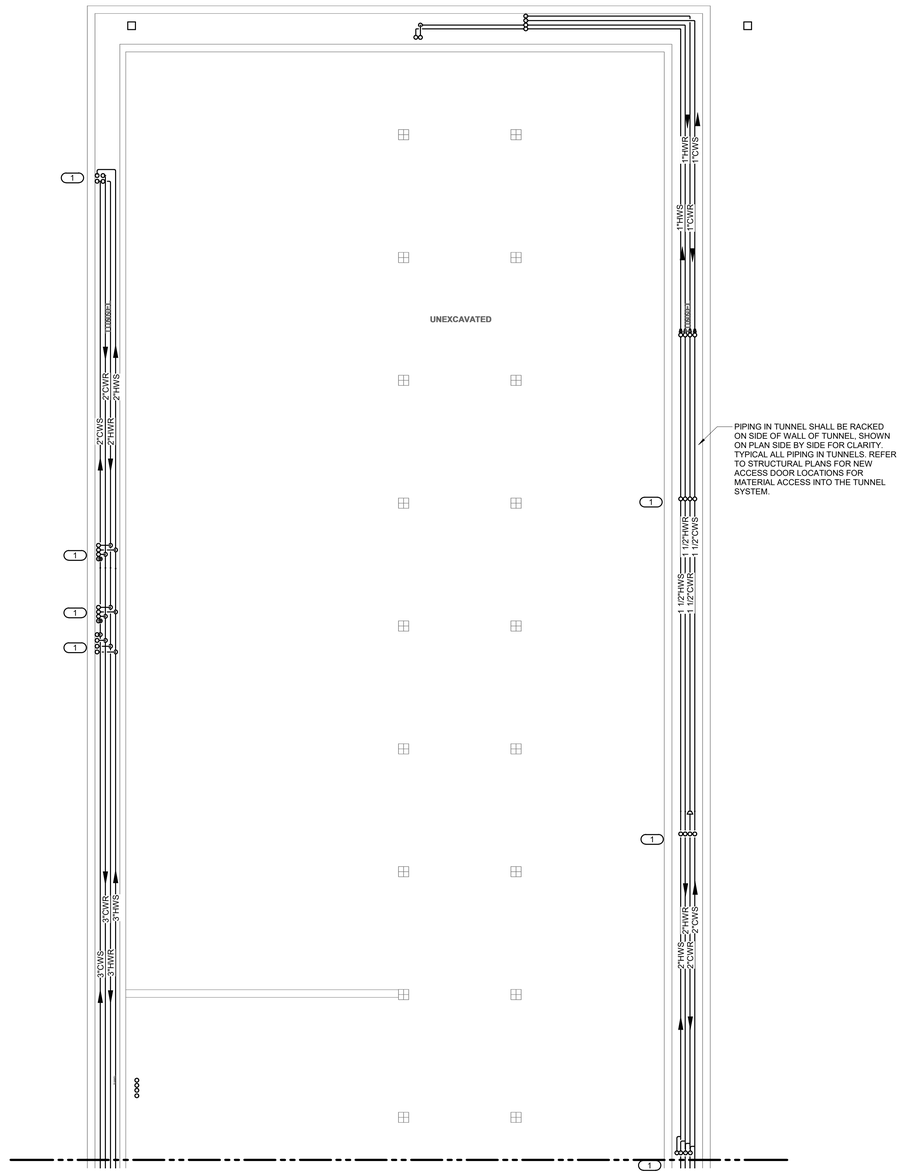
1. 3/4" CWS, CWR, HWS AND HWR CONNECTED TO STACKED MAINS IN TUNNEL. CORE DRILL FLOOR SLAB AND ROUTE UP TO CHASE ENCLOSURE AND TO FAN COIL UNIT ABOVE. MAINS SHOWN ON PLAN SIDE BY SIDE FOR DRAWING CLARITY. REFER TUNNEL SECTION *M*** FOR TYPICAL TUNNEL SECTION AT THIS LOCATION.
2. 1" CWS, CWR, HWS AND HWR CONNECTED TO STACKED MAINS IN TUNNEL. CORE DRILL FLOOR SLAB AND ROUTE UP TO CHASE ENCLOSURE AND TO FAN COIL UNIT ABOVE. MAINS SHOWN ON PLAN SIDE BY SIDE FOR DRAWING CLARITY. REFER TUNNEL SECTION *M*** FOR TYPICAL TUNNEL SECTION AT THIS LOCATION.



NORTH

1 BASEMENT FLOOR - MECHANICAL - AREA E

1/8" = 1'-0"



NORTH

2 BASEMENT FLOOR - MECHANICAL - AREA F

1/8" = 1'-0"

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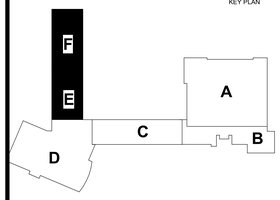
KEY PLAN



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SHEET TITLE

BASEMENT FLOOR - MECHANICAL - AREA E & F

SCALE

Scale: As indicated

SHEET NUMBER

M201E

KEYNOTES: (#)

1. PROVIDE 4-PIPE BLOWER/FAN COIL UNIT WITH ASSOCIATED SUPPORTS BELOW CEILING.
2. PROVIDE PAINTED EXPOSED RETURN AIR PLENUM WITH DUCT LINER AND ASSOCIATED SUPPORT BELOW CEILING.
3. PROVIDE PAINTED EXPOSED SUPPLY AIR PLENUM WITH DUCT LINER AND ASSOCIATED SUPPORT BELOW CEILING.
4. PROVIDE RETURN AIR GRILLE AND ASSOCIATED COMPONENTS.
5. PROVIDE SUPPLY REGISTER AND ASSOCIATED COMPONENTS.
6. HYDRONIC PIPING EXPOSED BELOW THE CEILING WHERE NOTED. REFER TO SPECIFCATIONS FO PAINTING REQUIREMENTS.
7. ROUTE CWS, CWR, HWS, HWR EXPOSED IN ROOM.
8. PROVIDE PROGRAMMABLE THERMOSTAT.
9. REFER TO ARCH. PLANS FOR CHILLER ENCLOSURE AND ACCESS GATE. MAINTAIN 6' AROUND BOTH SIDES NEAREST TO FENCE.

KEYNOTES: (#)

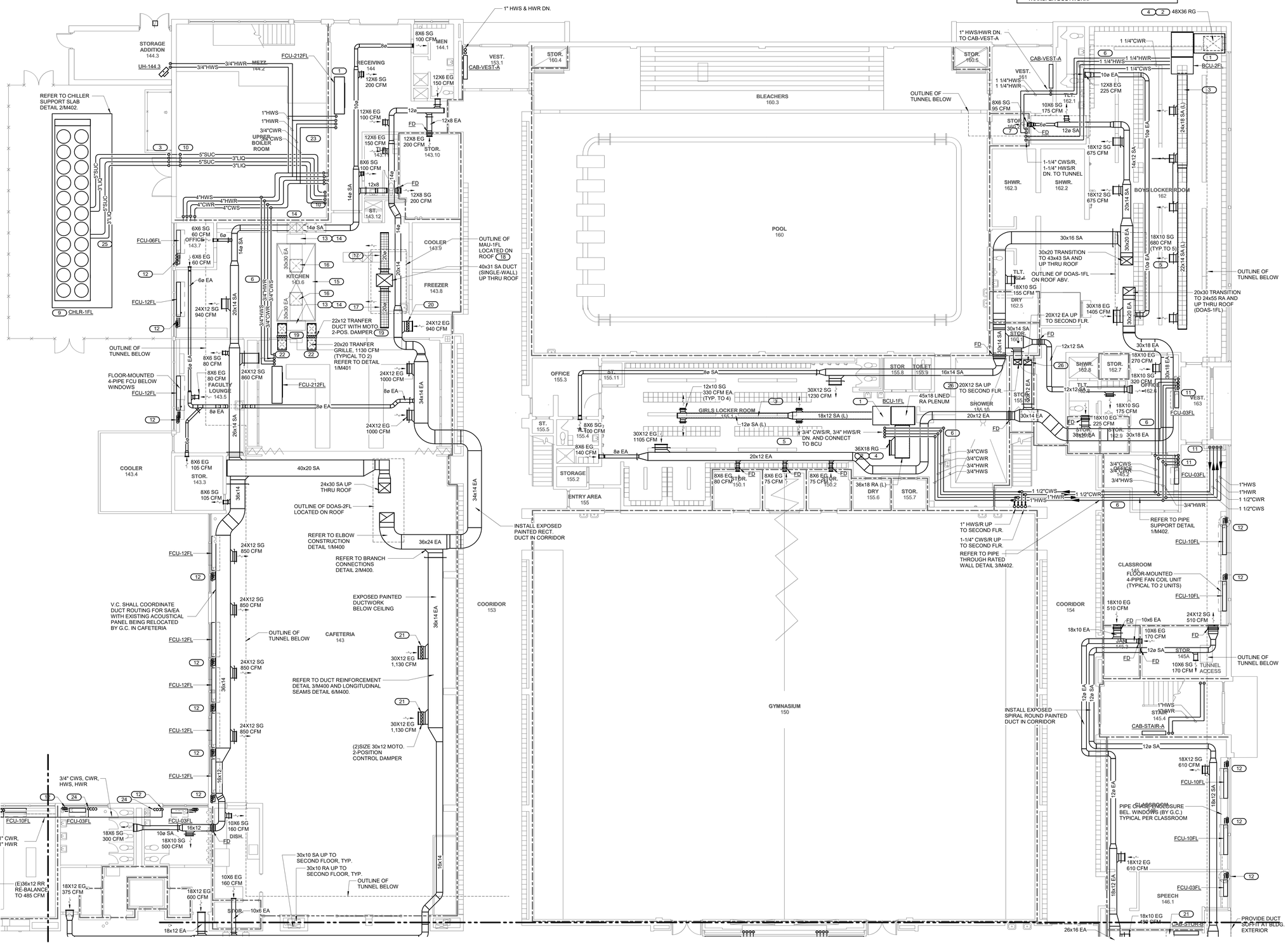
10. ROUTED (2) LIQ. AND (2) SUCTION LINES NORTH OF ACESS DOOR TO AN ELEVATION ABOVE TOP OF DOOR AND INTO BOILER ROOM. ROUTE LINES UP NEAR STRUCTURE OVER TO DROP LOCATION SHOWN FOR ENTRANCE INTO REMOTE EVAPORATOR LOCATION.
11. ROUTE HYDRONIC PIPING SHOWN DOWN IN CHASE PROVIDED BY G.C. REFER TO ARCH. PLANS.
12. 3/4" CWS/R, 3/4" HWS/R PIPING FROM TUNNEL BELOW TO FCU PIPING ENCLOSURE.
13. TEST AND BALANCE EXISTING EXHAUST FAN, PROVIDE NEW BELTS AND SHEAVES AS REQUIRED.
14. EXISTING 4070 CFM, 1 HP KITCHEN HOOD EXHAUST FAN TO REMAIN, FAN SHALL BE INSPECTED FOR PROPER OPERATION.
15. EXISTING 8,100 CFM RANGE HOOD, 4 UNITS WIDE AND 10 UNITS LONG TO REMAIN.

KEYNOTES: (#)

16. 30x30 EXHAUST DUCT DN. AND CONNECTION TO HOOD TO REMAIN. MOTORIZED DAMPER TO BE INSPECTED FOR PROPER OPERATION.
17. 20" DIAMETER ROUND SINGLE WALL AIR DIFFUSION SUPPLY DUCT, 8 FT, MINIMUM LENGTH, WITH END ACCESS DOOR. REFER TO DETAIL 3/M301.
18. INTERLOCK MAKE-UP AIR UNIT ON-OFF OPERATION WITH THE KITCHEN HOOD.
19. INTERLOCK CONTROL DAMPER OPEN-CLOSE POSITION WITH THE MAKE-UP AIR UNIT. DAMPER SHALL OPEN WHEN THE MAU IS ENABLED.
20. INTERLOCK CONTROL DAMPER OPEN-CLOSE POSITION WITH THE MAKE-UP AIR UNIT. DAMPER SHALL CLOSE WHEN THE MAU IS ENABLED.
21. INTERLOCK 2-POSITION MOTORIZED DAMPER WITH THE MAKE-UP AIR UNIT. DAMPER SHALL CLOSE WHEN THE MAU IS ENABLED.
22. FIELD-VERIFY LOCATION OF ROOF FRAMING TO INSTALL TRANSFER DUCTWORK.

KEYNOTES: (#)

23. ROUTE PIPING HIGH IN BOILER ROOM STRUCTURE OUT TO LOADING DOCK FCU. COORDINATE ROUTING WITH EXISTING.
24. 3/4" CWS, CWR, 3/4" HWS, HWR CONNECTED TO BRANCH PIPING ROUTED IN FIRST FLOOR CEILING STRUCTURE UP TO FCU ON SECOND FLOOR.
25. CONTRACTOR SHALL FIELD VERIFY CHILLER SLAB IS FULLY CLEAR OF EXISTING BOILER FLUE TO NOT DISTURB FLUE INFILL WHEN INSTALLING CHILLER SLAB FOOTING DETAILED ON DETAIL 2/M402.
26. INSTALL FIRE DAMPERS AT ALL DUCT RISER FLOOR PENETRATIONS.



1 FIRST FLOOR - MECHANICAL - AREA A

1/8" = 1'-0"

21002885.03 1/27/2022 5:09:10 PM ESSER HVAC Improvements - Flinn Middle School

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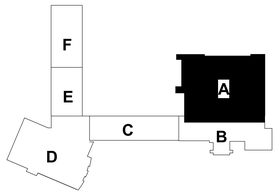
KEY PLAN



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Job Number	21002885.03
Drawn	J.D.C.
Checked	M.L.
Approved	B.P.

SHEET TITLE

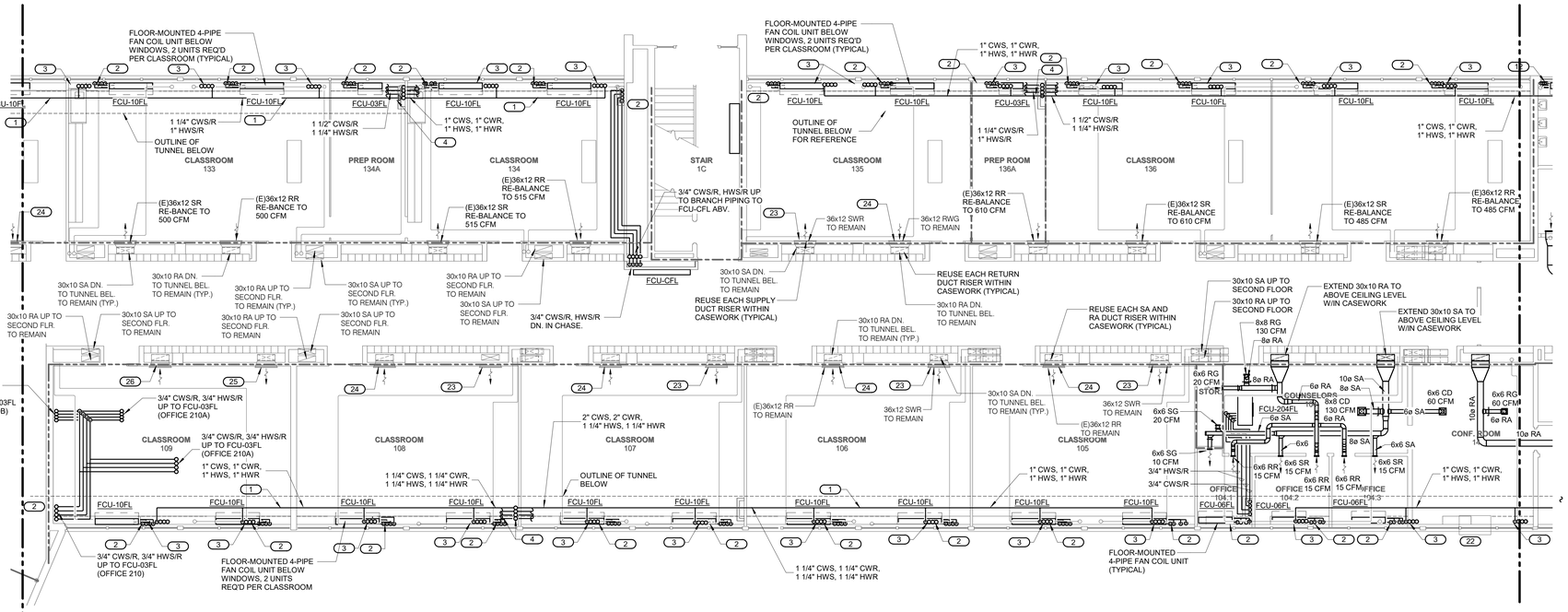
FIRST FLOOR - MECHANICAL - AREA A

SCALE

Scale: As indicated

SHEET NUMBER

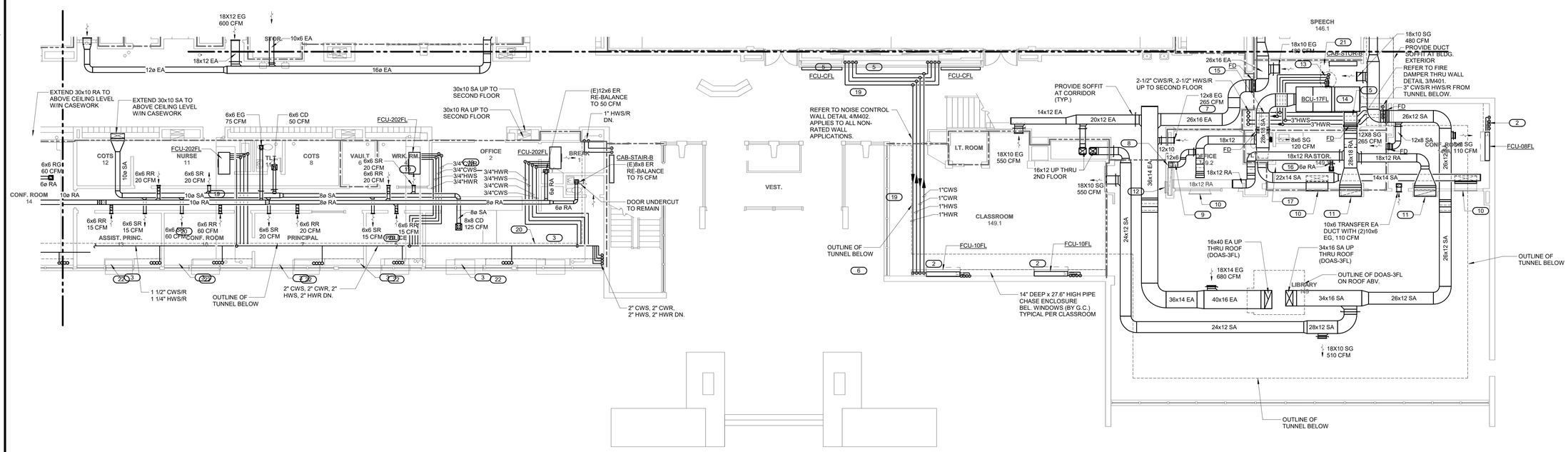
M202A



1 FIRST FLOOR - MECHANICAL - AREA C

1/8" = 1'-0"

NORTH



2 FIRST FLOOR - MECHANICAL - AREA B

1/8" = 1'-0"

NORTH

SHEET NOTES:

1. BRANCH PIPING FROM RISERS IN CEILING STRUCTURE. REFER TO ARCH. PLANS FOR CEILING DEMOLITION.
2. 3/4" CWS, CWR, 3/4" HWS, HWR PIPING FROM TUNNEL BELOW TO FCU PIPING ENCLOSURE. REFER TO BASEMENT PLANS FOR RISER SIZING.
3. 3/4" CWS, CWR, HWS, HWR CONNECTED TO BRANCH PIPING ROUTED IN FIRST FLOOR CEILING STRUCTURE UP TO FCU ON SECOND FLOOR.
4. CWS, CWR, HWS, HWR RISERS DOWN IN CHASE. REFER TO ARCH. PLANS FOR CHASE DETAILS AND REFER TO BASEMENT PLAN FOR RISER SIZING. HORIZONTAL BRANCH PIPING IN STRUCTURE NOT SHOWN IN ITS ENTIRETY TO SECOND FLOOR RISERS NOT SHOWN FOR DRAWING CLARITY.
5. 1" CWS, 1" CWR, 1"HWS, 1"HWR DOWN IN CHASE TO RECESSED FCU. REFER TO ARCH. PLANS FOR CHASE DETAILS.
6. 1" CWS, 1" CWR, 1" HWS, 1" HWR RISERS DOWN IN CHASE. REFER TO ARCH. PLANS FOR CHASE DETAILS.
7. 12x10 EXHAUST GRILLE, BALANCE TO 265 CFM.
8. CONNECT EXISTING 12x6 SA TO MAIN SUPPLY.
9. EXISTING 12x6 SG, RE-BALANCE TO 80 CFM.
10. EXISTING 24x12 SR, RE-BALANCE TO 1060 CFM.
11. EXISTING 48x18 RR, RE-BALANCE TO 1060 CFM.
12. EXISTING 24x24 RR, RE-BALANCE TO 1060 CFM.
13. 1" CWS/R, 1" HWS/R PIPIPNG CONNECTION TO BLOWER COIL AIR HANDLER.
14. 54" WIDTH x 30" HEIGHT x 55" LENGTH RETURN WITH 1" THICK ACCOUSTICAL LINER.
15. INSTALL SUPPLY AND RETURN DUCTWORK THRU EXISTING WALL OPENINGS. FIELD-VERIFY ACTUAL LOCATION.
16. 8x8 RETURN CEILING GRILLE, BALANCE TO 120 CFM.
17. 1 SQ. FT. DOOR LOUVER FOR TRANSFER AIR, REFER TO ARCH'L FOR DETAILS.
18. FIRE DAMPER REQUIRED AT PENETRATIONS THRU RATED WALLS.
19. ROUTE PIPING UP IN STRUCTURE. REFER TO ARCH. PLANS FOR CELING REMOVAL AND PATCHING.
20. CONNECT 3/4" CWS, 3/4" CWR, 3/4" HWS, 3/4" HWR TO TOP OF MAINS ROUTED PARALLEL TO EXTERIOR WALL AND ROUTE TO FAN COIL UNIT IN STRUCTURE. PROVIDE ACCESS DOOR IN CEILING TO ACCESS PIPING ACCESSORIES. REFER TO ARCH. FOR ACCESS DOOR REQUIREMENTS AND CEILING DEMOLTION AND PATCHING.
21. PROVIDE MIN. 4"-6" CLEARANCE SPACE FOR TUBE PULL-OUT.
22. EXISTING ADMINISTRATION ZONE PTAC UNIT AND ASSOCIATED CONTROL TO REMAIN.
23. RE-BALANCE EXISTING SUPPLY REGISTER TO 480 CFM. FOR EACH CLASSROOM.
24. RE-BALANCE EXISTING RETURN REGISTER TO 480 CFM FOR EACH CLASSROOM.
25. RE-BALANCE EXISTING SUPPLY REGISTER TO 490 CFM.
26. RE-BALANCE EXISTING RETURN REGISTER TO 490 CFM.

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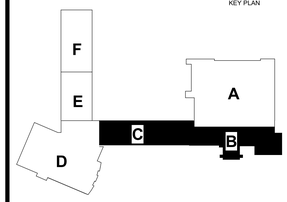

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SHEET TITLE

FIRST FLOOR - MECHANICAL - AREA B & C

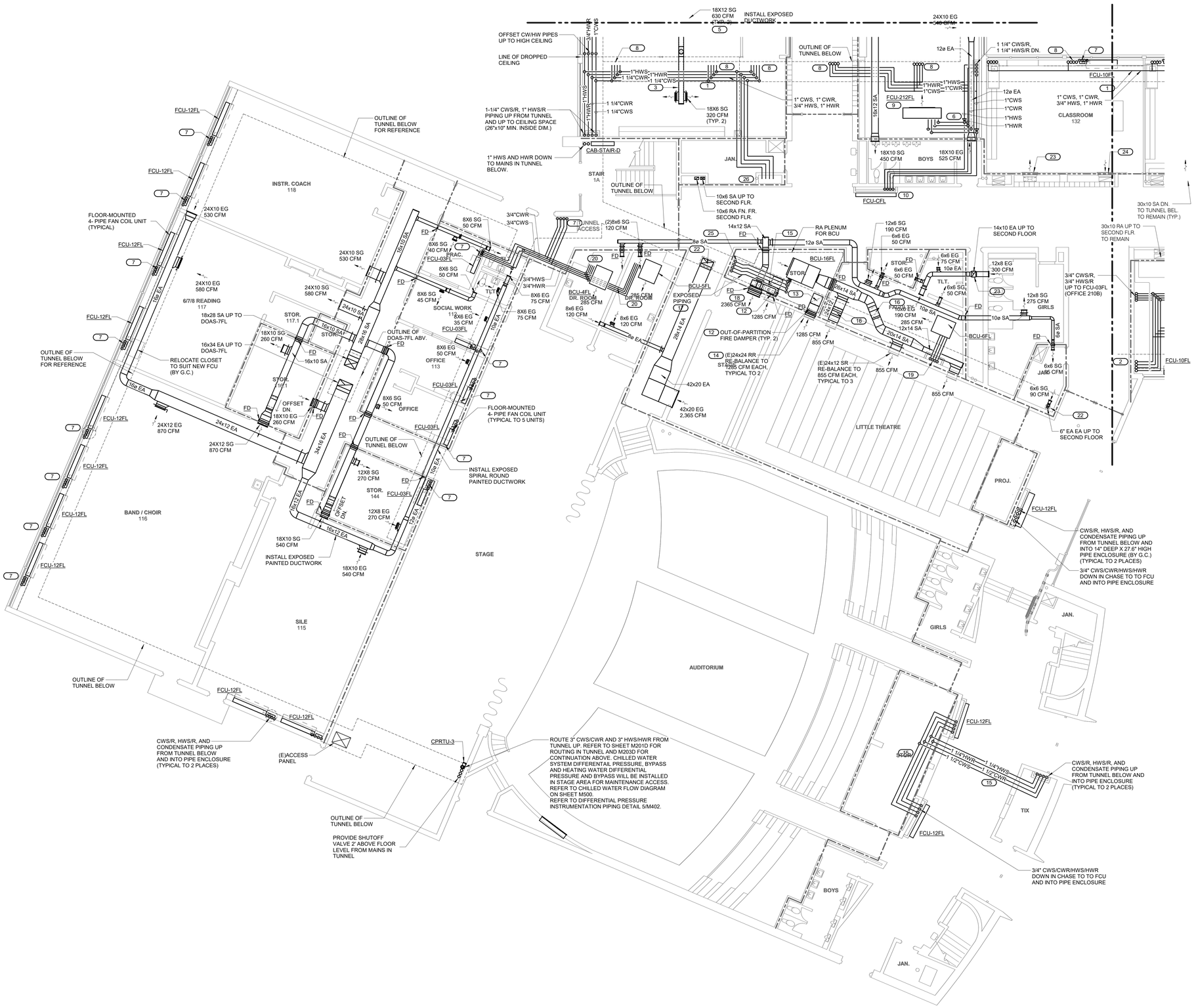
SCALE

Scale: As indicated

SHEET NUMBER

M202B

21002885.03 1/27/2022 5:09:21 PM ESSER HVAC Improvements - Flinn Middle School



1 FIRST FLOOR - MECHANICAL - AREA D

1/8" = 1'-0"

SHEET NOTES:

1. THE PIPING FOR THE FOUR-PIPE FAN COIL UNITS AND BLOWER COIL AIR HANDLERS WILL BE ROUTED IN THE EXISTING TUNNELS AND RISERS FOR THE OTHER UNIT.
2. THE AUDITORIUM WILL HAVE A COMPLETELY NEW VENTILATION SYSTEM TO MATCH THE SCOPE OF THE EXISTING VENTILATION ONLY SYSTEM.

KEYNOTES: (#)

1. PROVIDE 4-PIPE BLOWER COIL UNIT WITH ASSOCIATED SUPPORTS BELOW CEILING.
2. PROVIDE PAINTED EXPOSED RETURN AIR PLENUM WITH DUCT LINER AS ASSOCIATED SUPPORT BELOW CEILING.
3. PROVIDE PAINTED EXPOSED SUPPLY AIR PLENUM WITH DUCT LINER AND ASSOCIATED SUPPORT BELOW CEILING.
4. PROVIDE RETURN AIR GRILLE AND ASSOCIATED COMPONENTS.
5. PROVIDE SUPPLY REGISTER AND ASSOCIATED COMPONENTS.
6. HYRONIC PIPING EXPOSED BELOW THE CEILING WHERE NOTED. REFER TO SPECIFICATIONS FOR PAINTING REQUIREMENTS.
7. CWS, CWR, HWS, HWR PIPING FROM TUNNEL BELOW TO FCU PIPING ENCLOSURE. REFER TO BASEMENT PLANS FOR RISER SIZING.
8. 3/4" CWS, CWR, HWS, HWR CONNECTED TO BRANCH PIPING ROUTED IN FIRST FLOOR CEILING STRUCURE UP TO FCU ON SECOND FLOOR.
9. HORIZONTAL 4-PIPE FAN COIL UNIT WITH BOTTOM RETURN GRILLES AND FRONT SUPPLY GRILLES, SUSPENDED BELOW CEILING WITH 1" DEFLECTION SPRING ISOLATORS.
10. 1" CWS, 1" CWR, 1" HWS, 1" HWR RISERS DOWN IN CHASE. REFER TO ARCH. PLANS FOR CHASE DETAILS.
11. FIELD-VERIFY ACTUAL ELEVATION OF BCU ABOVE FINISHED FLOOR.
12. INSTALL FIRE DAMPER AT PENETRATIONS THRU RATED WALLS.
13. FOR SOUND ABATEMENT, INSTALL ELBOW (FACING DOWN TOWARDS THE FLOOR) DOWNSTREAM OF THE FIRE DAMPER WITH 1" THICK ACCOUSTICAL LINER.
14. CLEAN ALL AIR TERMINALS THAT ARE TO BE RE-USED.
15. 32x14 SA DN. FROM SECOND FLOOR THRU EXISTING 48x24 FLOOR OPENING, OFFSET DUCT RISER TO CLEAR THE RA DUCTWORK AND GRILLE BELOW.
16. OFFSET SA DUCWORK DN. TO MATCH THE ELEVATION OF THE EXISTING SUPPLY GRILLES.
17. OFFSET PIPING TO BCU TO CLEAR OSA DUCT DN. FROM SECOND FLOOR.
18. 30x24 OSA WALL REGISTER WITH FIRE DAMPER, BALANCE TO 2,175 CFM, PROVIDE NEW WALL OPENING TO SUIT.
19. 3/4" CWS/R, 3/4" HWS/R DN. AND CONNECT TO MAINS IN TUNNEL.
20. 3/4" CWS/R, 3/4" HWS/R PIPING CONNECTION TO BCU, TYPICAL.
21. 28x14 EA DUCT UP THRU SECOND FLOOR
22. PROVIDE NEW OPENING THRU SECOND FLOOR ABOVE FOR EA DUCT RISER, FIELD-VERIFY LOCATION.
23. FIELD-VERIFY ACTUAL LOCATION OF DUCT RISER TO CLEAR PLUMBING WITHIN CHASE.
24. ROUTE PIPING UP IN STRUCTURE. PROVIDE ACCESS DOOR IN CEILING TO ACCESS PIPING ACCESSORIES. REFER TO ARCH. FOR ACCESS DOOR REQUIREMENTS AND CEILING DEMOLITION AND PATCHING.
25. 1" CWS/R (10.7 GPM), 1" HWS/R (7.2 GPM) PIPING UP FROM TUNNEL BELOW.
26. 3/4" CWS, 3/4" CWR, 3/4" HWS, 3/4" HWR UP IN EXISTING CHASE ON SECOND FLOOR TO FCU-CFL. REFER TO ARCH. PLANS.

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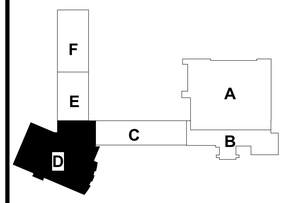

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Drawn	**J.D.C.**
Checked	**M.L.**
Approved	**B.P.**

SHEET TITLE

FIRST FLOOR - MECHANICAL - AREA D

SCALE

Scale: **As indicated**

SHEET NUMBER

M202D

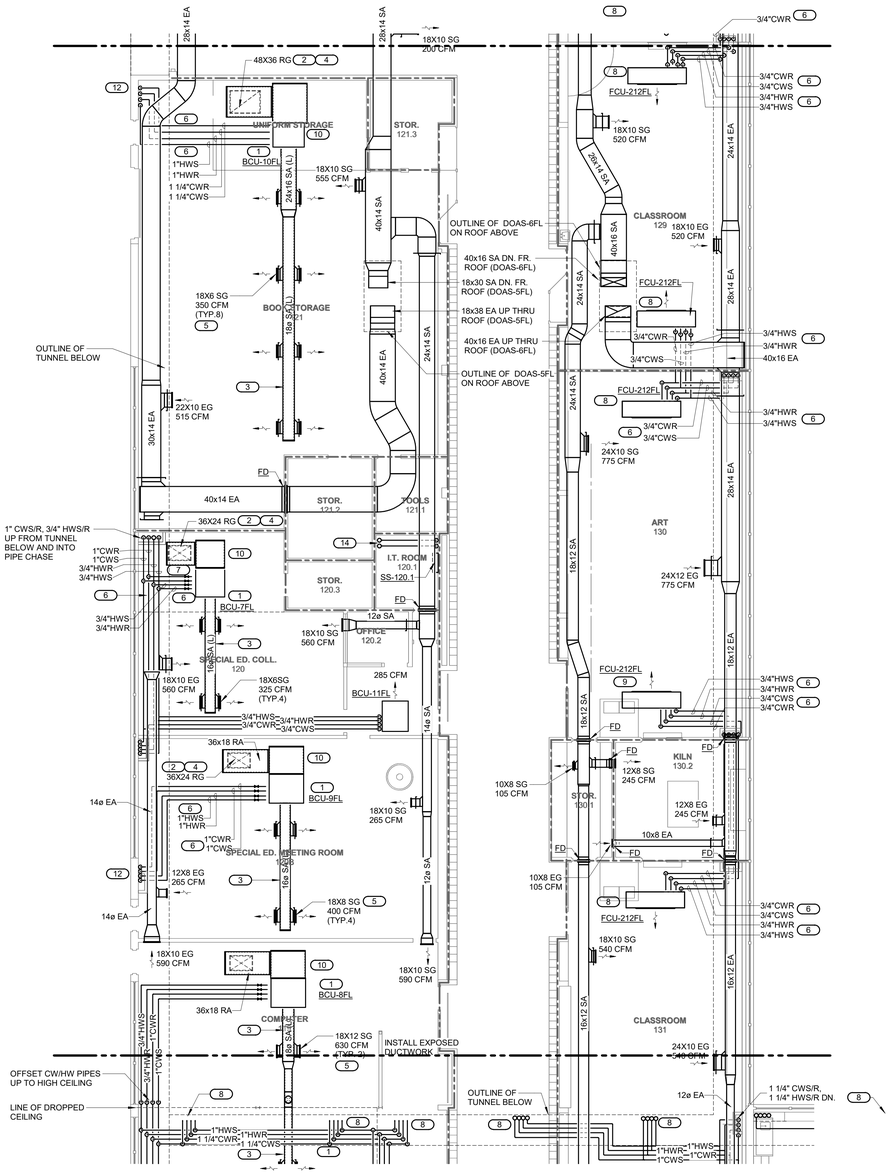
21002885.03 1/27/2022 5:09:29 PM ESSER HVAC Improvements - Flinn Middle School

SHEET NOTES:

1. THE PIPING FOR THE FOUR-PIPE FAN COIL UNITS AND BLOWER COIL AIR HANDLERS WILL BE ROUTED IN THE EXISTING TUNNELS AND RISERS FOR THE OTHER UNIT.

KEYNOTES: (#)

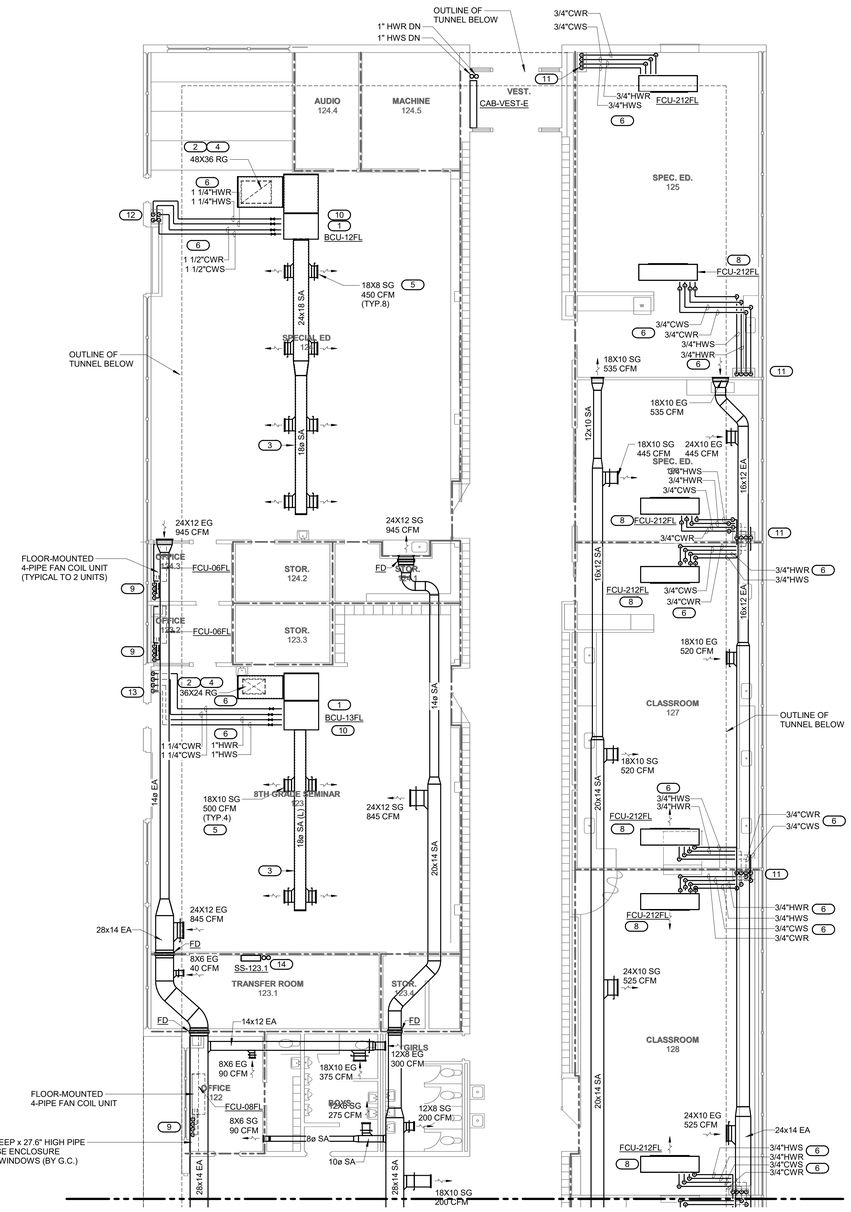
1. PROVIDE 4-PIPE BLOWER COIL UNIT WITH ASSOCIATED 1" DEFLECTION SPRING ISOLATORS AND SUPPORTS BELOW CEILING.
2. PROVIDE PAINTED EXPOSED RETURN AIR PLENUM WITH DUCT LINER AND ASSOCIATED SUPPORT BELOW CEILING.
3. PROVIDE PAINTED EXPOSED SUPPLY AIR PLENUM WITH DUCT LINER AND ASSOCIATED SUPPORT BELOW CEILING.
4. PROVIDE RETURN AIR GRILLE AND ASSOCIATED COMPONENTS.
5. PROVIDE SUPPLY REGISTER AND ASSOCIATED COMPONENTS.
6. HYDRONIC PIPING EXPOSED BELOW THE CEILING WHERE NOTED. REFER TO SPECIFCATIONS FO PAINTING REQUIREMENTS.
7. 1 1/4" CWS, 1 1/4" CWR, 1 1/4" HWS, 1 1/4" HWR EXPOSED ALONG WALL. CONNECT TO MAINS IN TUNNEL.
8. HORIZONTAL 4-PIPE FAN COIL UNIT WITH BOTTOM RETURN GRILLES AND FRONT SUPPLY GRILLES, SUSPENDED BELOW CEILING WITH 1" DEFLECTION SPRING ISOLATORS.
9. CWS, CWR, HWS, HWR PIPING FROM TUNNEL BELOW TO FCU PIPING ENCLOSURE. REFER TO BASEMENT PLANS FOR RISER SIZING.
10. 4-PIPE BLOWER COIL MOUNTED AND DUCTED BELOW CEILING.
11. 3/4" CWS, 3/4" CWR, 3/4" HWS, 3/4" HWR DOWN IN CHASE.
12. 1 1/4" CWS, 1 1/4" CWR, 1 1/4" HWS, 1 1/4" HWR DOWN IN CHASE AND CONNECT TO MAINS IN TUNNEL.
13. 1 1/4" CWS, 1 1/4" CWR, 1 1/4" HWS, 1 1/4" HWR EXPOSED ALONG WALL. CONNECT TO MAINS IN TUNNEL.
14. ROUTE LIQUID AND SUCTION LINES FROM INDOOR UNIT TO OUTDOOR UNIT DIRECTLY ABOVE. REFER TO ROOF PLAN. REFRIGERANT PIPING SIZED BY MANF.



NORTH

1 FIRST FLOOR - MECHANICAL - AREA E

1/8" = 1'-0"



NORTH

2 FIRST FLOOR - MECHANICAL - AREA F

1/8" = 1'-0"

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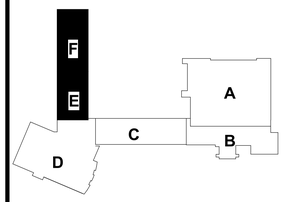
KEY PLAN



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Approved	B.P.

SHEET TITLE

FIRST FLOOR - MECHANICAL - AREA E & F

SCALE

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SHEET NUMBER

M202E

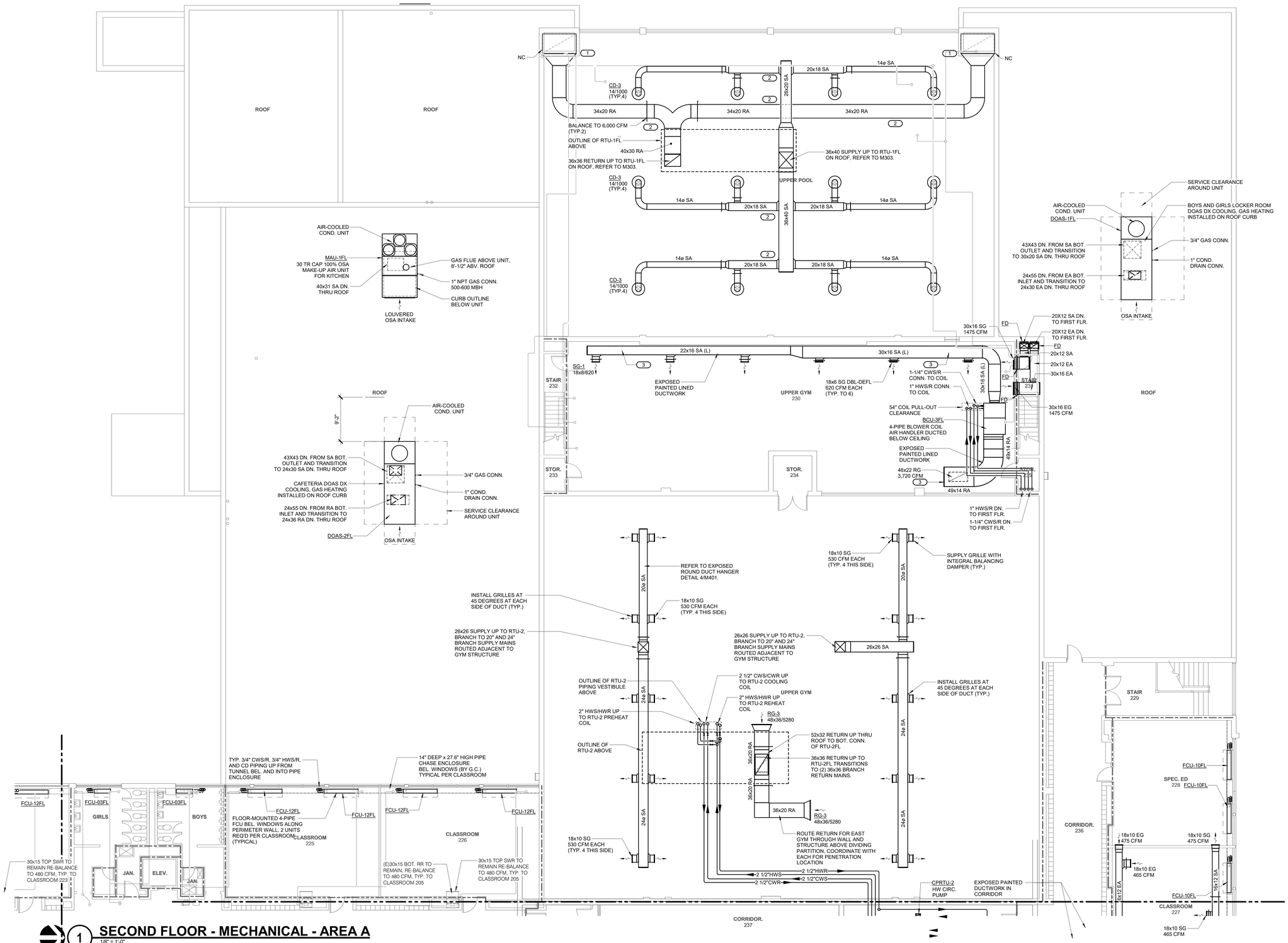
21002885.03 1/27/2022 5:09:38 PM ESSER HVAC Improvements - Flinn Middle School

SHEET NOTES:

1. THE GYMNASIUM, AUDITORIUM, AND POOL SHALL HAVE A COMPLETELY NEW VENTILATION SYSTEM TO MATCH THE SCOPE OF THE EXISTING VENTILATION ONLY SYSTEM.

KEYNOTES: #

1. CONNECT 34x20 RETURN MAIN FROM RTU-1 TO EXISTING DUCT RISER IN RETURN CHASE. REFER TO ARCH. PLANS FOR DEMOLITION OF CHASE TO ALLOW FOR M.C. WORK.
2. ROUTE SUPPLY AND RETURN MAINS THROUGH WEBBING OF EXISTING BAR JOIST STRUCTURE.
3. DUCTWORK SERVING THE GYM SHALL BE FABICATED ONE GAUGE LOWER THAN REQUIRED BY SMACNA FOR DAMAGE PROTECTION.



1 SECOND FLOOR - MECHANICAL - AREA A

1/8" = 1'-0"

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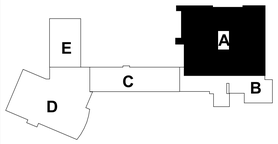
KEY PLAN



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SECOND FLOOR - MECHANICAL - AREA A

SCALE

Scale: **As indicated**

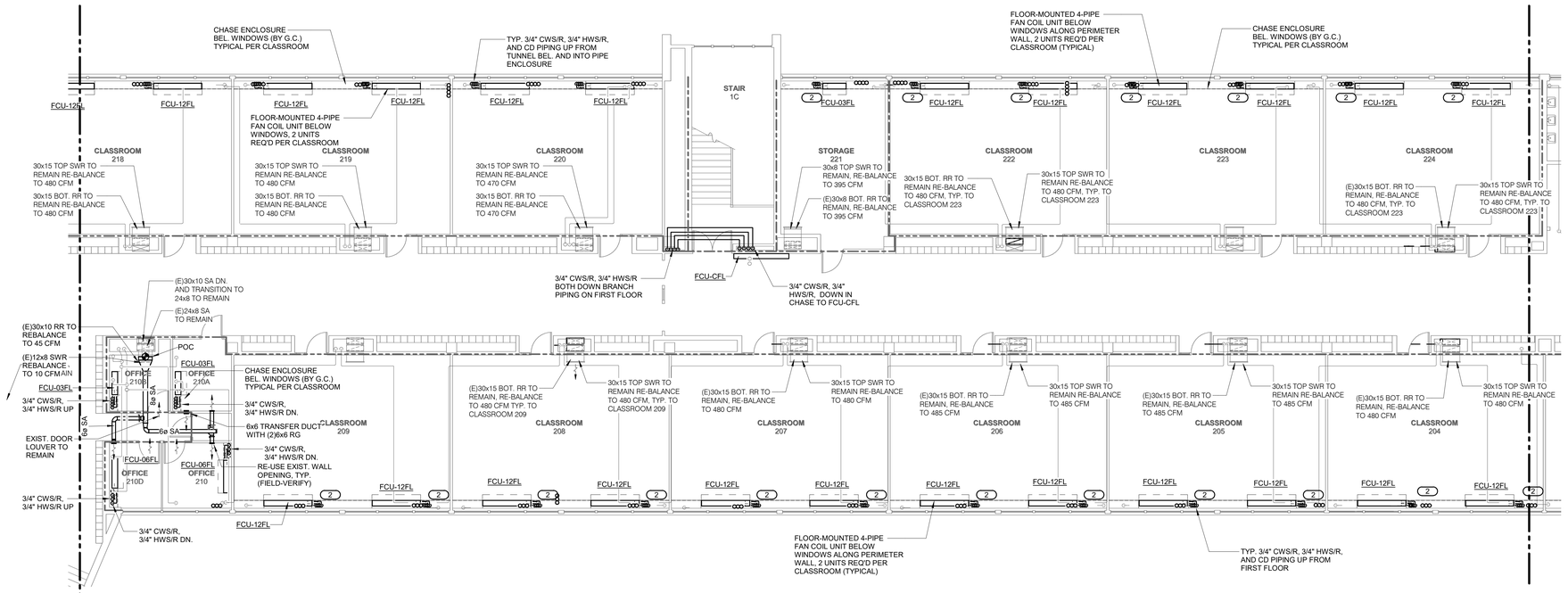
SHEET NUMBER

M203A

21002885.03 1/27/2022 5:09:42 PM ESSER HVAC Improvements - Flinn Middle School

SHEET NOTES:

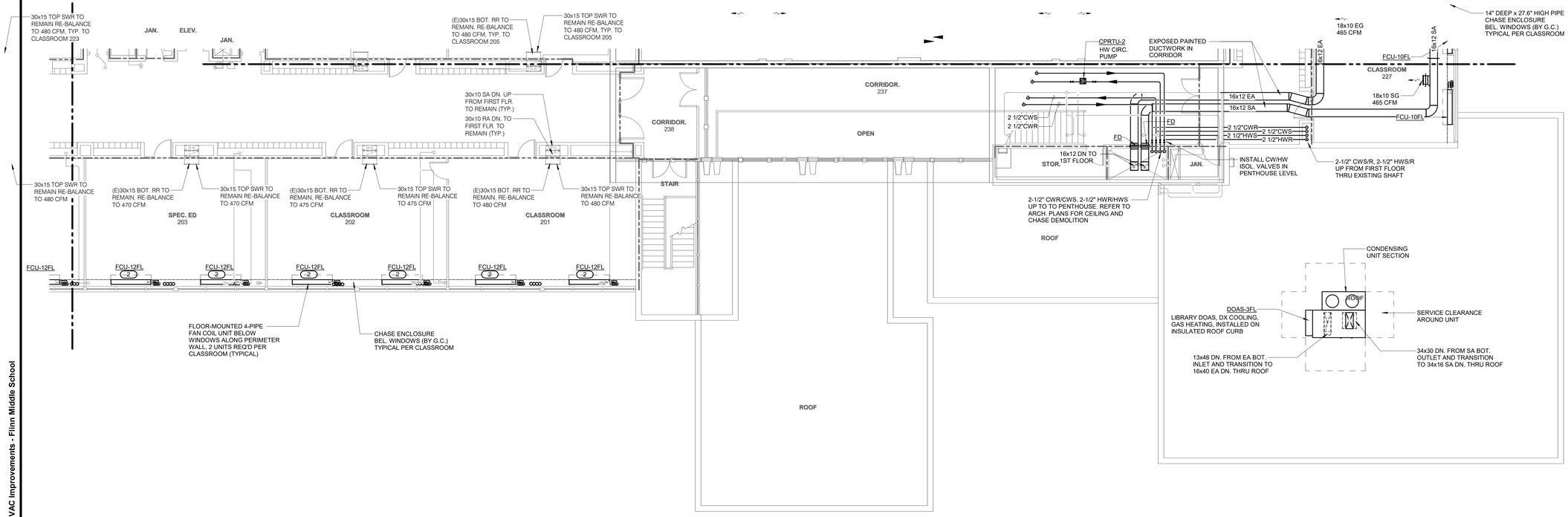
1. THE PIPING FOR THE FOUR-PIPE FAN COIL UNITS SERVING THE CLASSROOMS SHALL MATCH THE HVAC DESIGN FOR THE FIRST FLOOR CLASSROOMS.
2. 3/4" CWR, 3/4" CWS, 3/4" HWS, 3/4" HWR DOWN TO BRANCH MAIN ON FIRST FLOOR.



1 SECOND FLOOR - MECHANICAL - AREA C

1/8" = 1'-0"

NORTH



2 SECOND FLOOR - MECHANICAL - AREA B

1/8" = 1'-0"

NORTH

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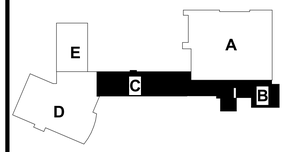

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Approved	**B.P.**

SHEET TITLE

SECOND FLOOR - MECHANICAL - AREA B & C

SCALE

Scale: **As indicated**

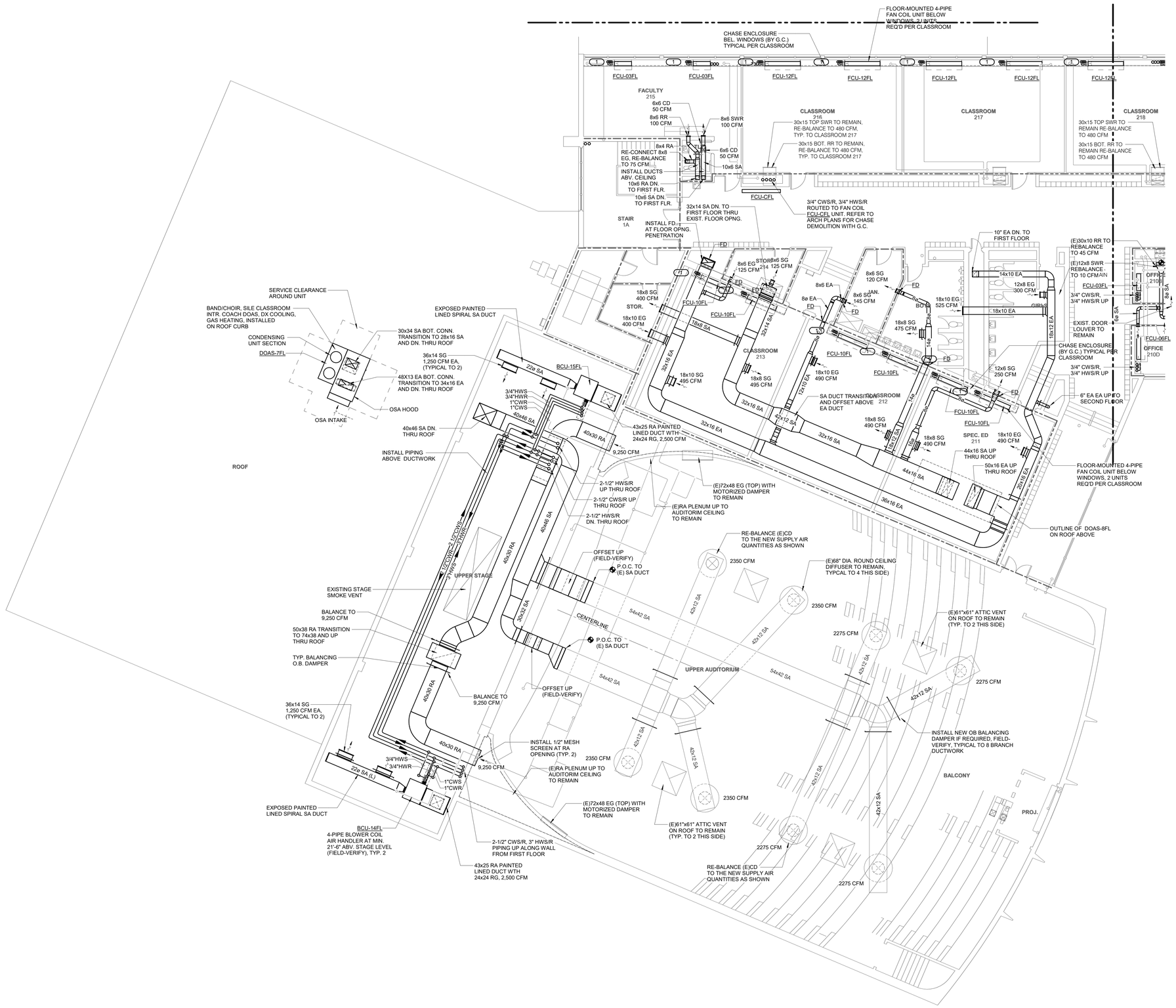
SHEET NUMBER

M203B

21002885.03 1/27/2022 5:09:51 PM ESSER HVAC Improvements - Flinn Middle School

KEYNOTES: #

1. 3/4" CWR, 3/4" CWS, 3/4" HWS, 3/4" HWR DOWN TO BRANCH MAIN ON FIRST FLOOR.



1 SECOND FLOOR - MECHANICAL - AREA D

1/8" = 1'-0"

21002885.03 1/27/2022 5:09:56 PM ESSER HVAC Improvements - Flinn Middle School

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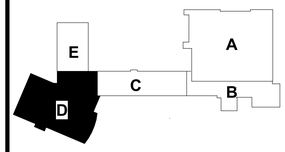
KEY PLAN



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Job Number	**21002885.03**
Drawn	**J.D.C.**
Checked	**M.L.**
Approved	**B.P.**

SHEET TITLE

SECOND FLOOR - MECHANICAL - AREA D

SCALE

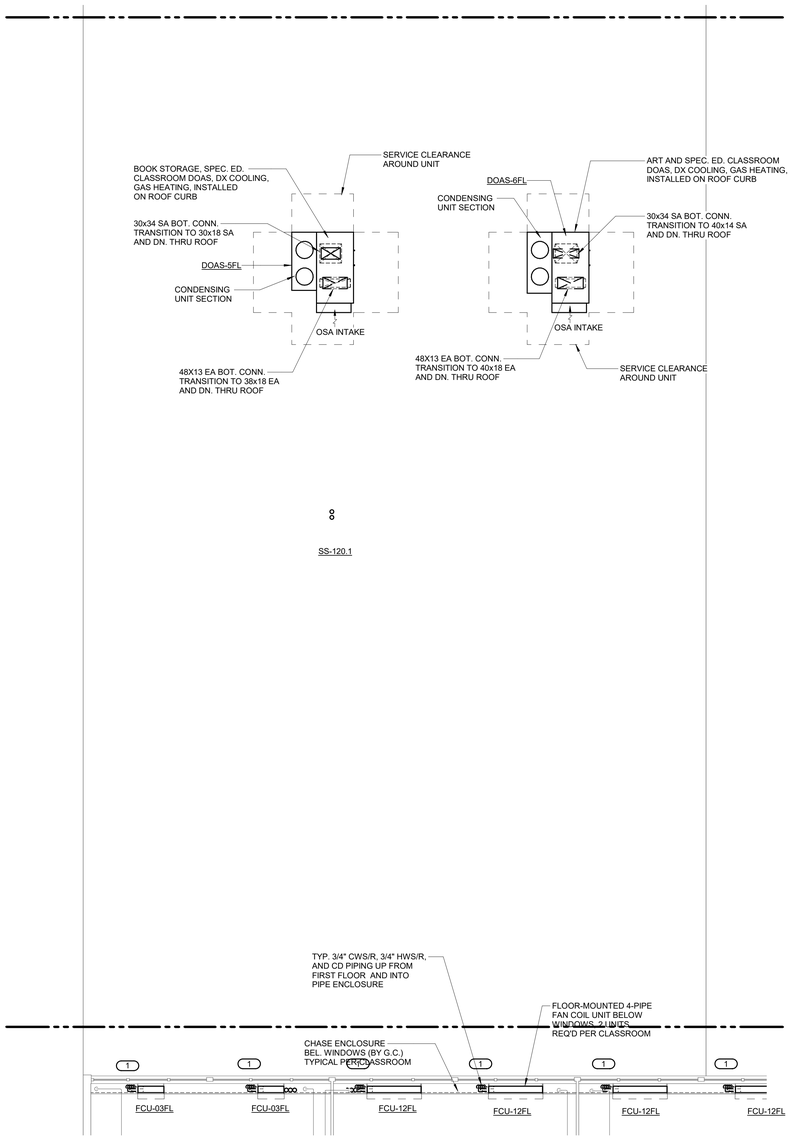
Scale: **As indicated**

SHEET NUMBER

M203D

KEYNOTES: #

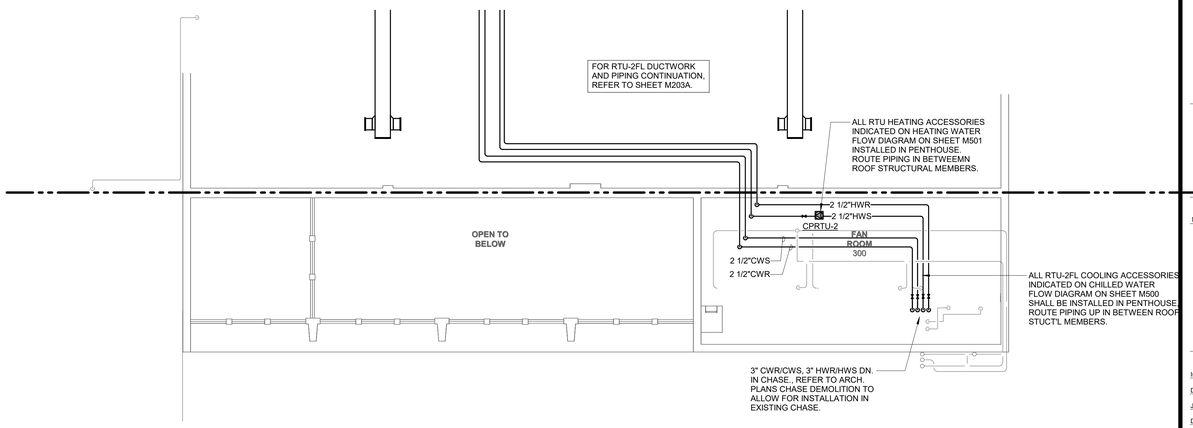
1. 3/4" CWR, 3/4" CWS, 3/4" HWS, 3/4" HWR DOWN TO BRANCH MAIN ON FIRST FLOOR.



NORTH

1 SECOND FLOOR - MECHANICAL - AREA E

1/8" = 1'-0"



NORTH

2 SECOND FLOOR FAN ROOM - MECHANICAL

1/8" = 1'-0"

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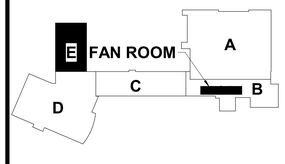
KEY PLAN



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SHEET TITLE

SECOND FLOOR - MECHANICAL - AREA E & G

SCALE

Scale: **As indicated**

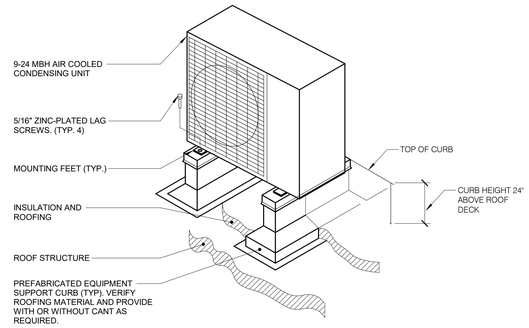
SHEET NUMBER

M203E

21002885.03 1/27/2022 5:10:00 PM ESSER HVAC Improvements - Flinn Middle School

KEYNOTES: #

1. EXISTING RELIEF HOOD OPENING LOCATIONS INDICATED AS REMOVED ON SHEET M103.

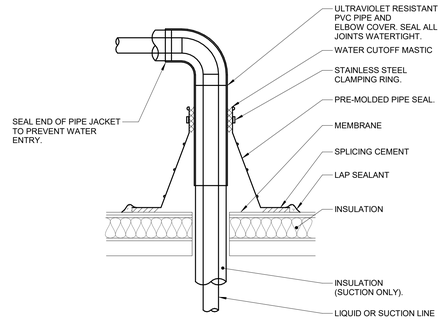


2 CONDENSING UNIT ROOF SUPPORT

12" = 1'-0"

NOTES:

1. VERIFY DIAMETER OF ANCHOR BOLT REQUIRED TO FIT WITHIN MOUNTING FEET ANCHOR HOLES.

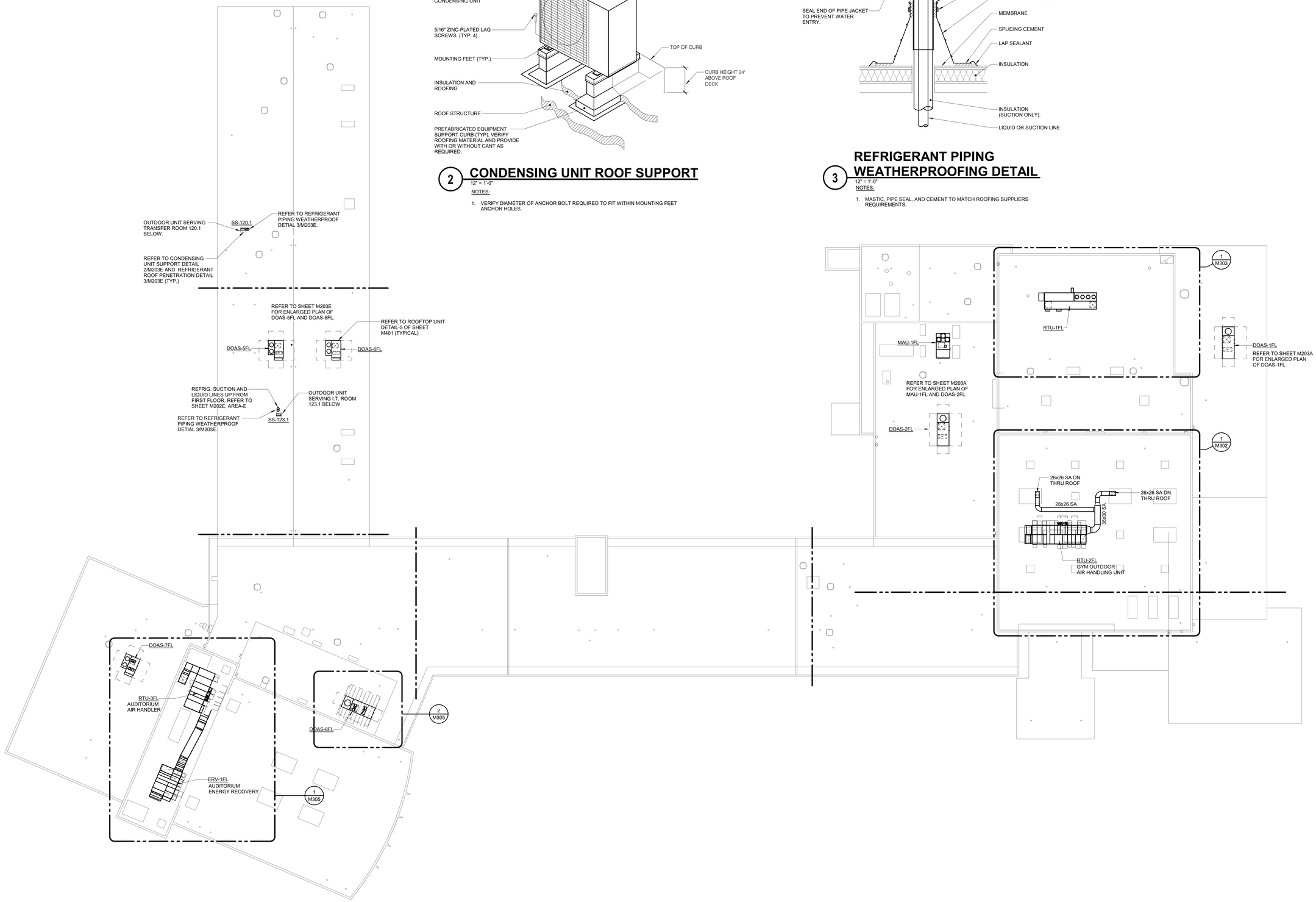


3 REFRIGERANT PIPING WEATHERPROOFING DETAIL

12" = 1'-0"

NOTES:

1. MASTIC, PIPE SEAL, AND CEMENT TO MATCH ROOFING SUPPLIERS REQUIREMENTS.



1 ROOF - MECHANICAL

1" = 20'-0"

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SHEET TITLE

ROOF - MECHANICAL

SCALE

Scale: As indicated

SHEET NUMBER

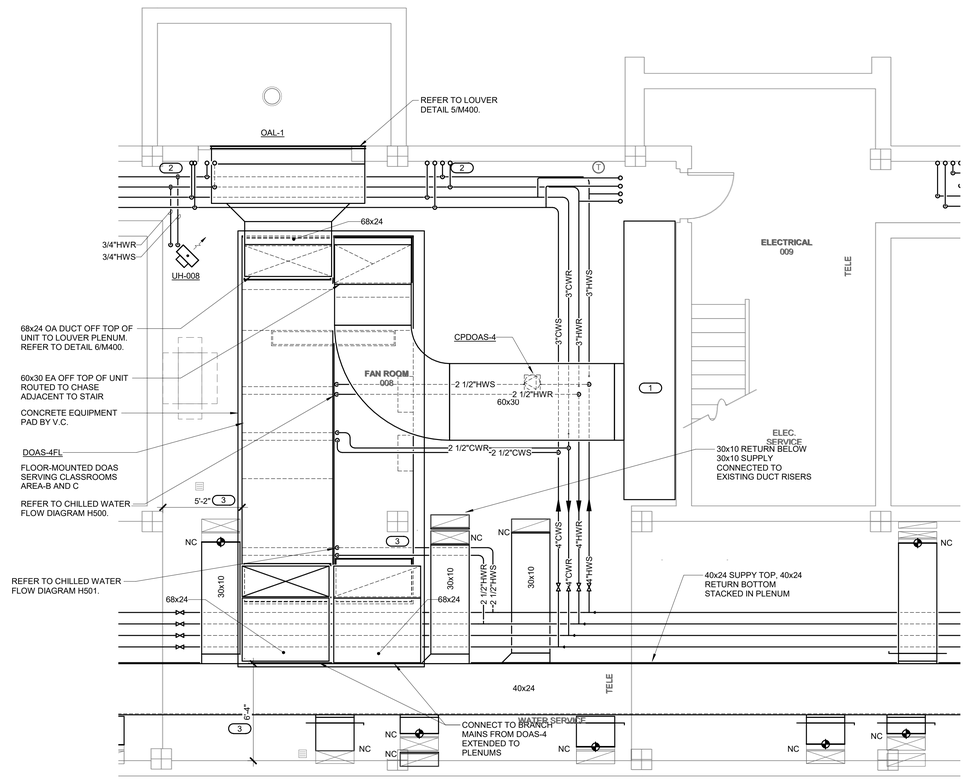
M204

GENERAL NOTES:

1. SUPPLY AND RETURN DAMPERS AT EACH INLET/OUTLET LOCATION BY AHU MANUFACTURER.

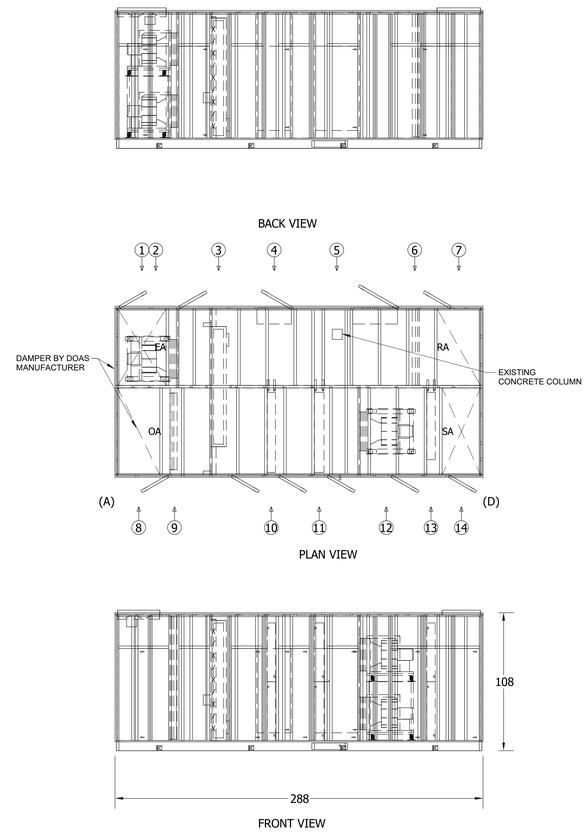
KEYNOTES: (#)

1. M.C. SHALL EXTEND A SHEET METAL PLENUM 4'-0" BELOW VERTICAL CHASE OPENING TO ENCAPSULATE THE CHASE AND ALLOW FOR THE EXHAUST AIR CONNECTION IN THE FAN ROOM. SECURE PLENUM TO FAN ROOM WALL.
2. 1" CWS, CWR, HWS & HWR UP TO FCU ABOVE, TYPICAL EACH RISER.
3. LOCATE DOAS-4 AS INDICATED TO ALLOW FOR ADEQUATE UNIT ACCESS WITHIN THE MECHANICAL ROOM. PROVIDE A COLUMN BOX OUT WITHIN DOAS-4 SHIPPING SPLIT TO ALLOW UNIT TO BE INSTALLED AS NOTED ENCLOSING THE EXISTING COLUMN. FIELD VERIFY COLUMN LOCATION FOR COORDINATE WITH DOAS LAYOUT. V.C. SHALL PROVIDE A FIELD INSTALLED INSULATED SHEET METAL WRAP AROUND THE COLUMN INSIDE THE UNIT. SEAL AIR TIGHT.
4. MAXIMUM DOAS SECTION SIZE SHALL BE 7'-0" WIDE TO ALLOW COMPONENTS TO BE LOWERED IN THE MECHANICAL ROOM FROM THE AREA WELL. REFER TO STRUCTURAL PLANS FOR AREA WELL DETAILS. REFER TO ARCH. PLANS FOR WALL OPENING IN EXISTING FOUNDATION WALL BETWEEN EXISTING COLUMNS.



1 DOAS-4 ENLARGED BASEMENT FLOOR - MECHANICAL - AREA B

1/4" = 1'-0"



COMPONENTS:

1) EXHAUST AIR OUTLET W/ DAMPER (38.00" X 60.00")
2) EXHAUST FAN, TYP. OF 2
3) HEAT WHEEL
4) VFD ENCLOSURE
5) ELECTRICAL ENCLOSURE
6) 4" MERV 8 FILTERS
7) RETURN AIR INLET (34.00" X 60.00")
8) OUTSIDE AIR INLET W/ DAMPER (33.00" X 68.00")
9) 4" MERV 8 FILTERS
10) HOT WATER COIL 2, TYP. OF 2
11) CHILLED WATER COIL, TYP. OF 2 (1.25" MPT DRAIN)
12) SUPPLY FAN, TYP. OF 2
13) HOT WATER COIL, TYP. OF 2
14) SUPPLY AIR OUTLET (30.00" X 68.00")

2 DOAS-4 PLAN

1/4" = 1'-0"

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Approved	**B.P.**

SHEET TITLE

DOAS-4 ENLARGED PLAN & AHU DETAIL

SCALE

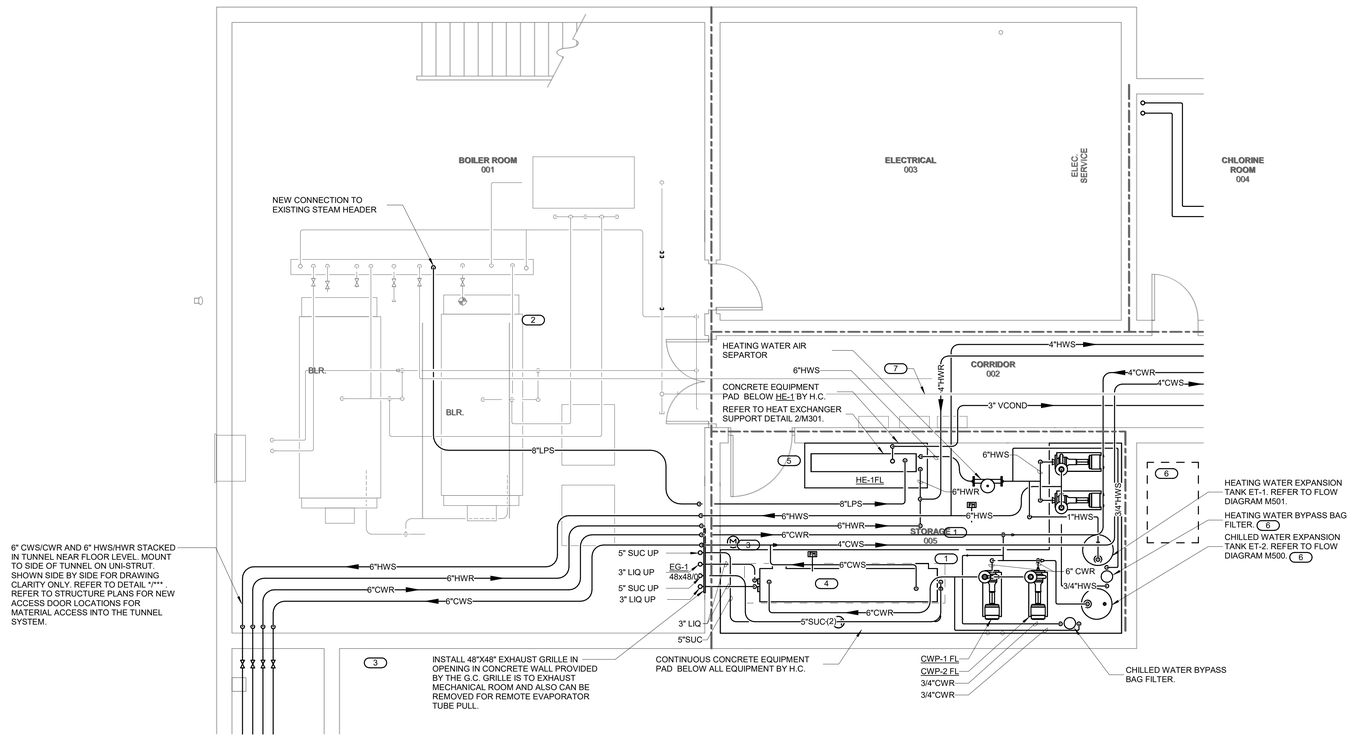
Scale: **1/4" = 1'-0"**

SHEET NUMBER

M300

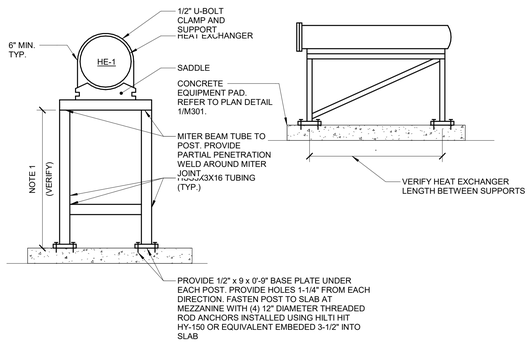
KEY NOTES: (#)

1. ROUTE MAINS TIGHT TO STRUCTURE TO MAXIMIZE MAINTENANCE CLEARANCE.
2. M.C. SHALL MAKE CONNECTION TO STEAM HEADER WHEN BOILER ARE OFF FOR THE SUMMER IN PHASE 1 OF CONSTRUCTION.
3. ROUTE CWS/CWR/HWS/HWR UP WEST BOILER ROOM WALL UP WALL NEAR STRUCTURE. DROP DOWN AT TUNNEL ENTRANCE LOCATION.
4. REMOTE EVAPORATOR SHALL BE FLOOR SUPPORTED TO AN ELEVATION OF 3' ABOVE THE FLOOR AT BOTTOM OF BARREL.
5. REFER TO HEATING WATER FLOW DIAGRAM ON SHEET M501 FOR HEAT EXCHANGER PIPING.
6. CONTRACTOR OPTION: INSTALL HEATING WATER AND CHILLED WATER EXPANSION TANK AND EQUIPMENT PAD ON EAST SIDE OF MECHANICAL ROOM WALL WITH EQUIPMENT PAD TO FREE UP SPACE NEAR PUMPS.
7. 3" VACUUM CONDENSATE FROM VP-1 BACK TO BOILER FEED TANK SHALL REMAIN.



1 BOILER ROOM ENLARGED BASEMENT FLOOR - MECHANICAL - AREA B

1/4" = 1'-0"

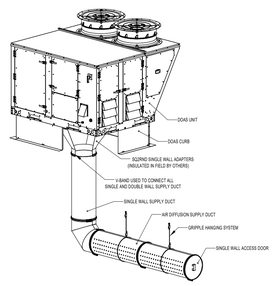


2 HEAT EXCHANGER SUPPORT DETAIL

NO SCALE

NOTES:

1. MOUNTING HEIGHT OF HEAT EXCHANGER (HE-1) AND HE-2 SHALL BE HIGH ENOUGH FOR CONDENSATE TO SLOPE INTO THE TOP OF CONDENSATE MAIN/CONDENSATE RETURN STATION. SEE PLAN VIEW 1/H-102.N3 FOR CONDENSATE CONNECTION LOCATION.



3 CAPTIVEAIRE MAKE-UP AIR UNIT

NO SCALE

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SHEET TITLE

BOILER ROOM/ENLARGED MECHANICAL ROOM PLAN

SCALE

Scale: As indicated

SHEET NUMBER

M301

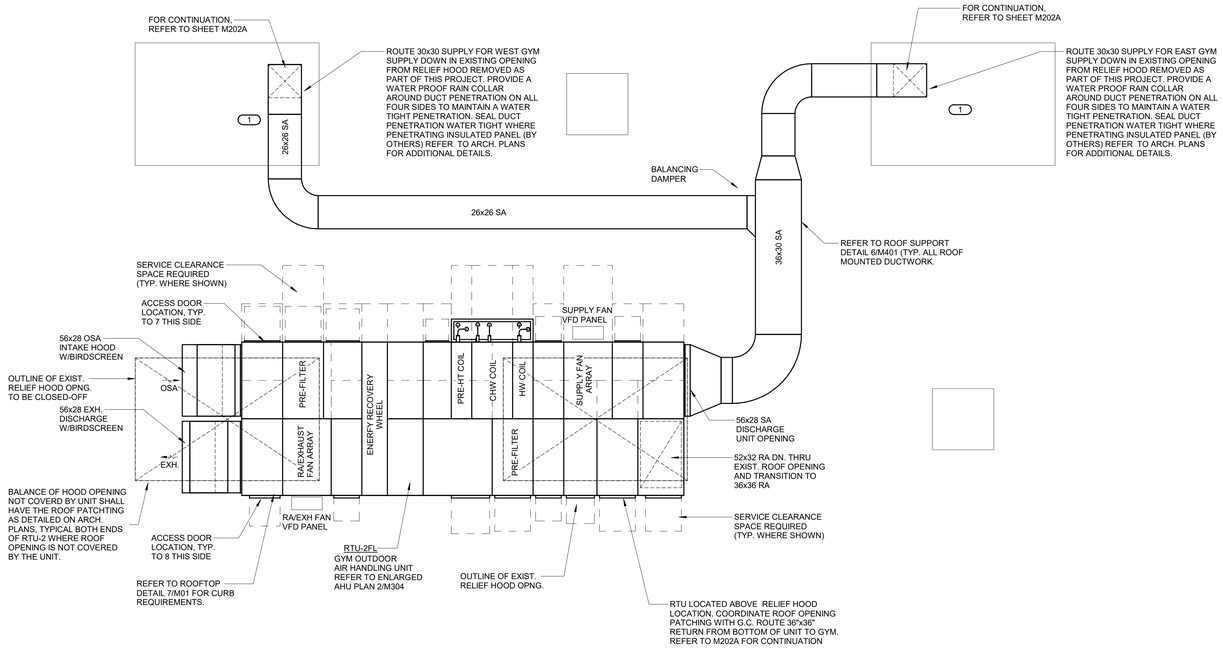
21002885.03 1/27/2022 5:10:10 PM ESSER HVAC Improvements - Flinn Middle School

KEYNOTES: #

1. EXISTING RELIEF HOOD ROOF OPENING LOCATIONS INDICATED AS REMOVED ON SHEET M103.

GENERAL NOTES:

1. SUPPLY AND RETURN DAMPERS AT EACH INLET/OUTLET LOCATION BY AHU MANUFACTURER.



NORTH

1 GYM ENLARGED ROOF PLAN - MECHANICAL - AREA A

1/4" = 1'-0"

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SHEET TITLE

GYM ENLARGED ROOF PLAN

SCALE

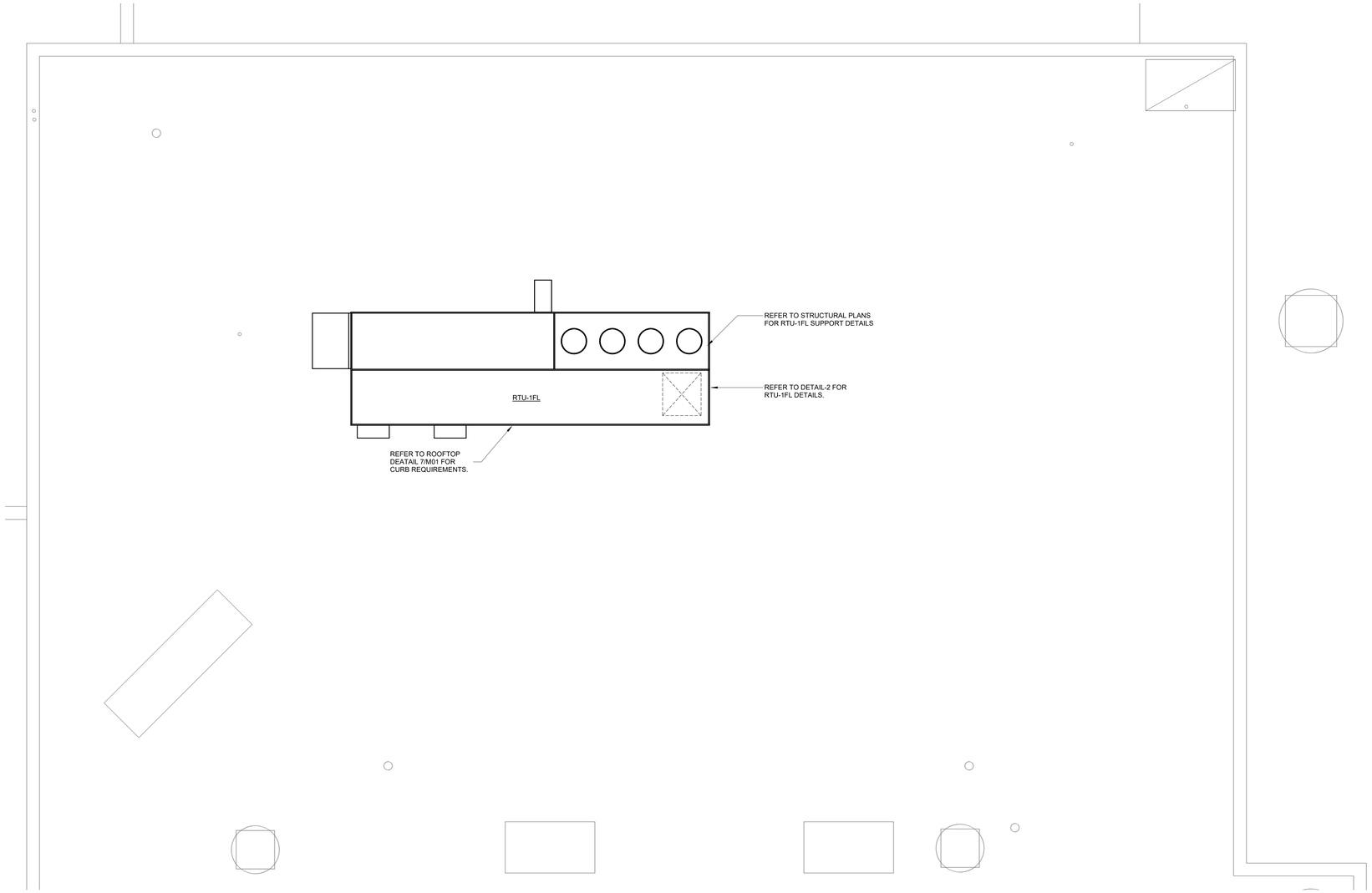
Scale: **1/4" = 1'-0"**

SHEET NUMBER

M302

GENERAL NOTES:

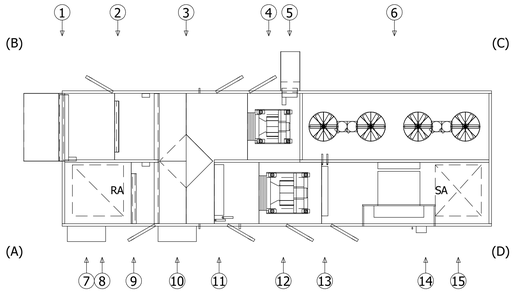
1. SUPPLY AND RETURN DAMPERS AT EACH INLET/OUTLET LOCATION BY AHU MANUFACTURER.



1 POOL ENLARGED ROOF PLAN - MECHANICAL - AREA A

1/4" = 1'-0"

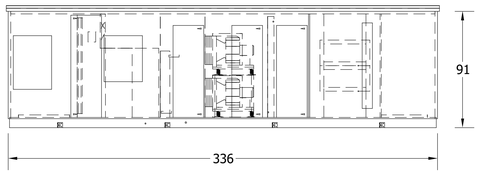
NORTH



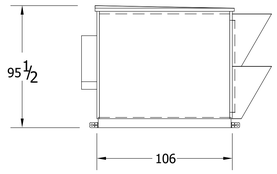
PLAN VIEW

COMPONENTS:

1. OUTSIDE AIR INLET HOOD W/ DAMPER
2. 2" MERV 8 FILTERS
3. PLATE HEAT EXCHANGER (1.00" MPT DRAIN)
4. EXHAUST FAN, TYP. OF 2
5. EXHAUST AIR OUTLET HOOD W/ DAMPER
6. AIR-COOLED REFRIGERATION
7. ELECTRICAL ENCLOSURE
8. RETURN AIR INLET (40.00" X 40.00")
9. 2" ALUMINUM FILTERS
10. VFD ENCLOSURE
11. DX COIL (1.25" MPT DRAIN)
12. SUPPLY FAN, TYP. OF 2
13. HOT GAS REHEAT
14. INDIRECT FIRED FURNACE, TYP. OF 2
15. SUPPLY AIR OUTLET (36.00" X 40.00")



FRONT VIEW



RIGHT END VIEW

2 RTU-1 ENLARGED PLAN

1/4" = 1'-0"

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SHEET TITLE

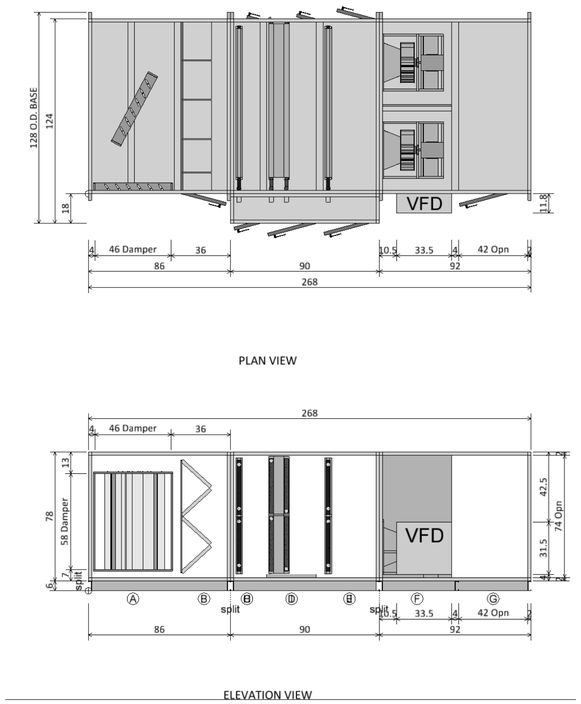
POOL ENLARGED ROOF/AHU PLAN

SCALE

Scale: **1/4" = 1'-0"**

SHEET NUMBER

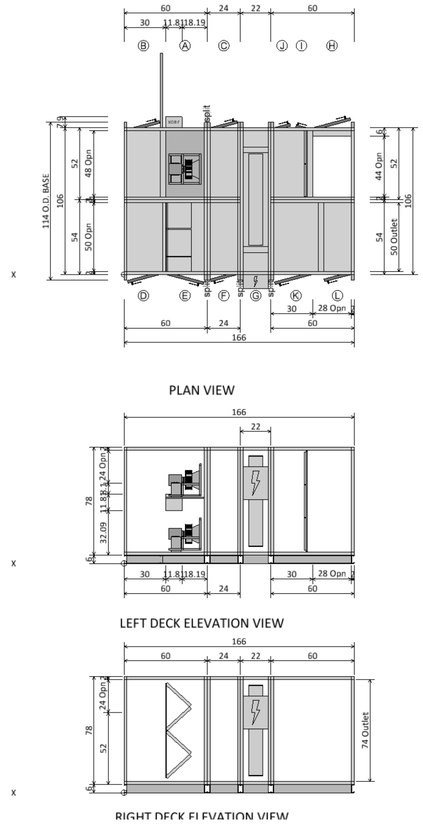
M303



1 RTU-3 SECTION
1/4" = 1'-0"

KEYNOTES		
	Component Key	
Ⓐ	Double Mixing Box	
Ⓑ	Panel Filter Filter Type: Right Door (WxH):	 Pleated (MERV 8) 28 ins x 74 ins
Ⓒ	Hot Water Coil Coil Model: Total Capacity: Left Door (WxH):	 5WH0902B 1245215.0 Btu/hr 8 ins x 66 ins
Ⓓ	Chilled Water coil Coil Model: Total Capacity: Left Door (WxH):	 5WL0908B 719705.0 Btu/hr 12 ins x 68 ins
Ⓔ	Hot Water Coil Coil Model: Total Capacity: Left Door (WxH):	 5WH1102C 814959.0 Btu/hr 24 ins x 66 ins
Ⓕ	Supply Fan Fan Type: Fan Size (Class): Air Flowrate: T.S.P: Motor Power: Control box door swing:	 Centrifugal - Plenum 24 (2) 9250.0 cfm 3.4 insWg 10.0 HP 33.50 ins
Ⓖ	Plenum Section Opening Location: Opening Size: Right Door (WxH):	 Non-drive side 74 ins x 42 ins 30 ins x 68 ins
Ⓗ	Vestibule Section Right Door (WxH):	 16 ins x 68 ins
Ⓘ	Vestibule Section Right Door (WxH):	 30 ins x 68 ins
Ⓙ	Vestibule Section Right Door (WxH):	 28 ins x 68 ins

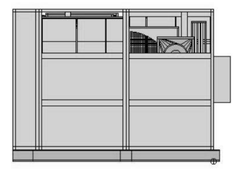
Opening dimensions shown are for unit only, refer to curb drawing for duct opening dimensions.



2 RTU-3 ERV SECTION
1/4" = 1'-0"

KEYNOTES		
	Component Key	
Ⓐ	Return Fan Fan Type: Fan Size (Class): Air Flowrate: T.S.P: Motor Power:	 Centrifugal - Plenum 15 (2) 3900.0 cfm 1.7 insWg 3.0 HP
Ⓑ	Plenum Section Opening Location: Opening Size: Left Door (WxH):	 End upper 24 ins x 48 ins 20 ins x 68 ins
Ⓒ	Access Section Left Door (WxH):	 20 ins x 68 ins
Ⓓ	Plenum Section Opening Location: Opening Size: Right Door (WxH):	 End upper 24 ins x 50 ins 24 ins x 68 ins
Ⓔ	Panel Filter Filter Type: Right Door (WxH):	 Pleated (MERV 8) 28 ins x 74 ins
Ⓕ	Access Section Right Door (WxH):	 20 ins x 68 ins
Ⓖ	Energy Recovery Wheel Model: Winter Capacity: Summer Capacity: Right Door (WxH):	 ECW 606 543026.8 Btu/hr 285745.9 Btu/hr 18 ins x 38 ins
Ⓗ	Plenum Section Opening Location: Opening Size: Left Door (WxH):	 Bottom 28 ins x 44 ins 28 ins x 68 ins
Ⓘ	Panel Filter Filter Type: Left Door (WxH):	 Pleated (MERV 8) 8 ins x 74 ins
Ⓙ	Access Section Left Door (WxH):	 12 ins x 68 ins
Ⓚ	Access Section Right Door (WxH):	 28 ins x 68 ins
Ⓛ	Access Section Right Door (WxH):	 20 ins x 68 ins

Opening dimensions shown are for unit only, refer to curb drawing for duct opening dimensions.



3 RTU-2 - GYM UNIT PLAN
1/4" = 1'-0"

KEYNOTES		
	Component Key	
Ⓐ	Access Section Right Door (WxH):	 20 ins x 68 ins
Ⓑ	Return Fan Fan Type: Fan Size (Class): Air Flowrate: T.S.P: Motor Power: Control box door swing:	 Centrifugal - Plenum 16 (2) 5290.0 cfm 2.0 insWg 7.5 HP 33.50 ins
Ⓒ	Plenum Section Opening Location: Opening Size: Right Door (WxH):	 End upper 28 ins x 56 ins 24 ins x 68 ins
Ⓓ	Plenum Section Opening Location: Opening Size: Left Door (WxH):	 End upper 28 ins x 56 ins 28 ins x 68 ins
Ⓔ	Panel Filter Filter Type: Left Door (WxH):	 Pleated (MERV 8) 28 ins x 92 ins
Ⓕ	Access Section Left Door (WxH):	 26 ins x 68 ins
Ⓖ	Energy Recovery Wheel Model: Winter Capacity: Summer Capacity: Left Door (WxH):	 ECW 666 564956.0 Btu/hr 299551.0 Btu/hr 16 ins x 46 ins
Ⓗ	Top Recirc Section	
Ⓘ	Bottom Recirc Section	
Ⓙ	Panel Filter Filter Type: Right Door (WxH):	 Pleated (MERV 8) 28 ins x 92 ins
Ⓚ	Access Section Right Door (WxH):	 30 ins x 68 ins
Ⓛ	Access Section Right Door (WxH):	 20 ins x 68 ins
Ⓜ	Plenum Section Opening Location: Opening Size: Right Door (WxH):	 Bottom 32 ins x 52 ins 28 ins x 68 ins
Ⓝ	Access Section Right Door (WxH):	 28 ins x 68 ins
Ⓞ	Access Section Right Door (WxH):	 22 ins x 68 ins
Ⓟ	Access Section Left Door (WxH):	 18 ins x 68 ins
Ⓠ	Hot Water Coil Coil Model: Total Capacity:	 5WH0902B 695693.0 Btu/hr
Ⓡ	Chilled Water coil Coil Model: Total Capacity:	 5WH0808C 413056.0 Btu/hr
Ⓢ	Hot Water Coil Coil Model: Total Capacity:	 5WH0802C 355851.0 Btu/hr
Ⓣ	Access Section Left Door (WxH):	 20 ins x 68 ins
Ⓤ	Supply Fan Fan Type: Fan Size (Class): Air Flowrate: T.S.P: Motor Power: Control box door swing:	 Centrifugal - Plenum 16 (2) 5290.0 cfm 4.1 insWg 10.0 HP 33.50 ins
Ⓥ	Access Section Left Door (WxH):	 20 ins x 68 ins
Ⓦ	Plenum Section Opening Location: Opening Size:	 End upper 28 ins x 56 ins
Ⓧ	Vestibule Section	
Ⓨ	Vestibule Section	
Ⓩ	Vestibule Section	

Opening dimensions shown are for unit only, refer to curb drawing for duct opening dimensions.

GENERAL NOTES:

1. SUPPLY AND RETURN DAMPERS AT EACH INLET/OUTLET LOCATION BY AHU MANUFACTURER.

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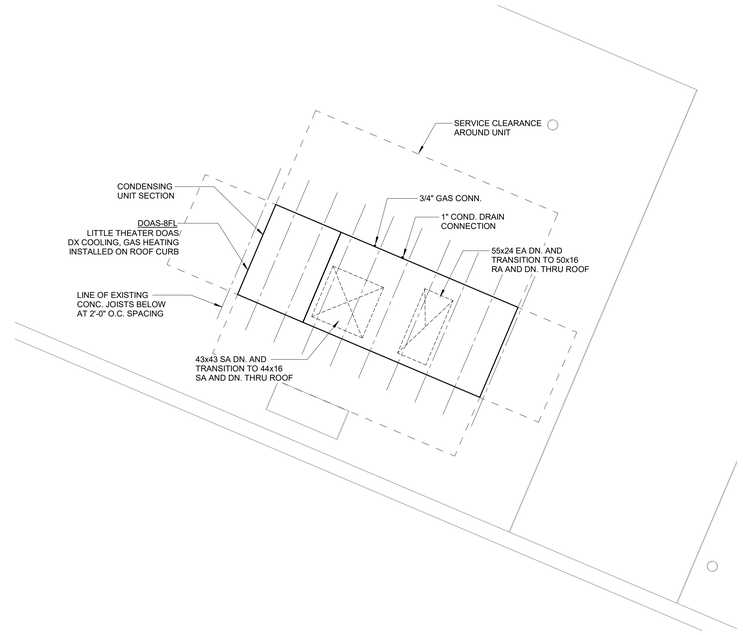
Checked	M.L.
Approved	B.P.

SHEET TITLE
RTU-2/RTU-3 EQUIPMENT DETAILS

SCALE
Scale: As indicated

SHEET NUMBER
M304

1 **RTU-3FL/ERV-1FL ENLARGED ROOF PLAN**
1/4" = 1'-0"



2 **DOAS-8FL ENLARGED ROOF PLAN**
1/4" = 1'-0"

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Checked	**M.L.**
Approved	**B.P.**

SHEET TITLE

RTU-3/ERV-1 AND DOAS-8FL ENLARGED ROOF PLANS

SCALE

Scale: **1/4" = 1'-0"**

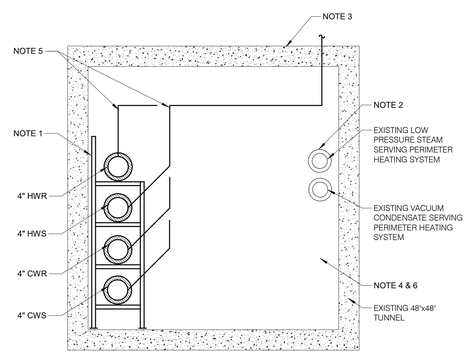
SHEET NUMBER

M305

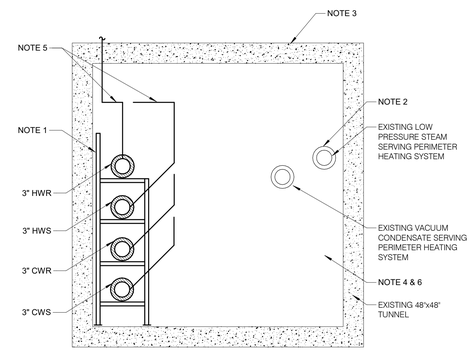
21002885.03 1/27/2022 5:10:14 PM ESSER HVAC Improvements - Flinn Middle School

NOTES:

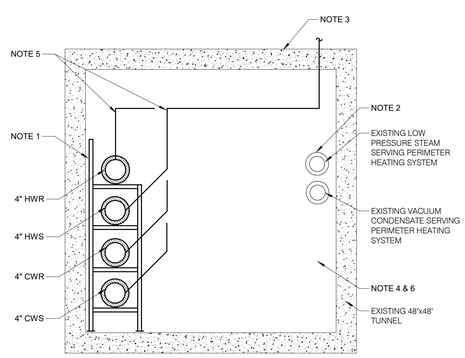
1. UNISTRUT PIPE RACK FOR CWS/CWR/HWS/HWR. MOUNT PIPING VERTICALLY ON OPPOSITE WALL OF EXISTING STEAM/CONDENSATE PIPING IN TUNNEL.
2. DESIGN INTENT IS FOR EXISTING/CONDENSATE TO REMAIN FOR THE FIRST WINTER HEATING SEASON. NEW HYDRONIC PIPING MAINS AND BRANCH PIPING THAT WILL BE EXTENDED UP TO NEW TERMINAL EQUIPMENT TO BE INSTALLED SUMMER 2022. IN AREAS WHERE THE EXISTING STEAM/CONDENSATE IS ROUTED SUCH THAT IT MAKES A PORTION INACCESSIBLE FOR THE NEW PIPING, THAT PORTION OF THE TUNNEL WILL BE INSTALLED THE SUMMER OF 2023. THE INTENT IS TO GET THE MAJORITY OF THE NEW HYDRONIC PIPING LOOP INSTALLED SUMMER 2022.
3. THERE ARE MULTIPLE 24"x36" TUNNEL ACCESS DOORS BEING REPLACED DURING THIS PROJECT AND ARE SHOWN ON THE ARCHITECTURAL PLANS. THERE ARE MANY AT EACH SECTION OF THE BUILDING. THESE ACCESS POINTS WILL BE USED AS CONTRACTOR ACCESS INTO THE TUNNEL SYSTEM AND ALL A LOCATION FOR PIPING TO BE PLACED INTO THE TUNNEL.
4. OPTIONAL CONFIGURATION WOULD BE TO HAVE HEATING WATER PIPING STACKED TWO HIGH ON ONE SIDE AND CHILLED WATER PIPING STACKED TWO HIGH ON THE OPPOSITE SIDE BOTH AT THE BOTTOM OF THE TUNNEL OF THE EXISTING PIPING ELEVATION ALLOWS THE INSTALLATION FOR SUMMER 2022.
5. ROUTE BRANCH CWS/CWR/HWS/HWR OFF OF TOP OR SIDE OF MAINS IN PIPE RACK SYSTEM. KEEP BRANCH PIPING TIGHT TO MAINS AND TOP OF TUNNEL TO MAXIMIZE CLEAR SPACE IN TUNNEL. ROUTE BRANCH PIPING THROUGH TOP OF TUNNEL AT RISER LOCATIONS AND CAP FOR EXTENSION ON SUMMER 2023 TO TERMINAL EQUIPMENT. REFER TO TUNNEL PLAN VIEW DRAWINS FOR BRANCH PIPE SIZES.
6. ANY TUNNEL RADIATION SYSTEM LOCATED IN TUNNEL AREAS SHALL BE REMOVED SUMMER OF 2022 TO CREATE SPACE FOR NEW HYRDONIC PIPING.



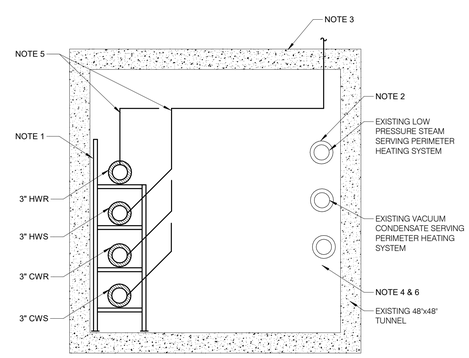
1 **TUNNEL SECTION - AREA A**
1/2" = 1'-0"



2 **TUNNEL SECTION - AREA C**
1/2" = 1'-0"



3 **TUNNEL SECTION - AREA D**
1/2" = 1'-0"



4 **TUNNEL SECTION - AREA E**
1/2" = 1'-0"

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Approved	**B.P.**

SHEET TITLE

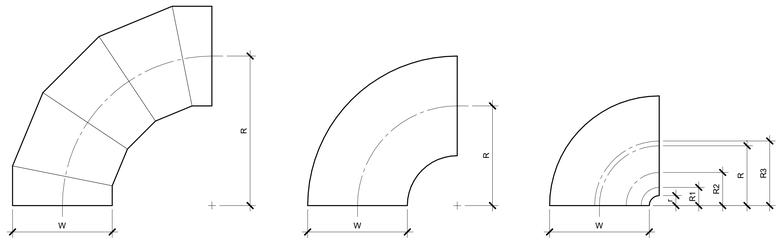
ENLARGED TUNNEL SECTIONS/PLANS

SCALE

Scale: **1/2" = 1'-0"**

SHEET NUMBER

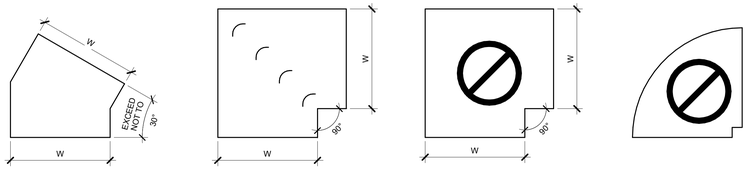
M306



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

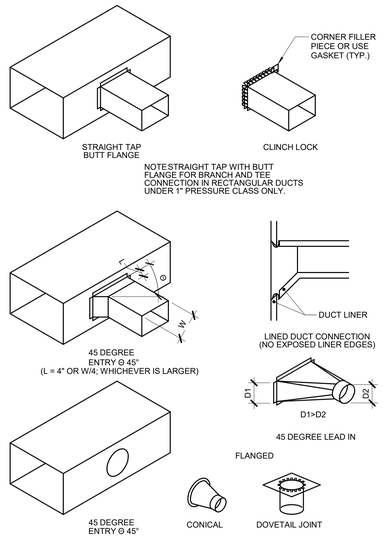
RECTANGULAR RADIUS ELBOW WITH SQUARE THROAT
NOT ALLOWED

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.

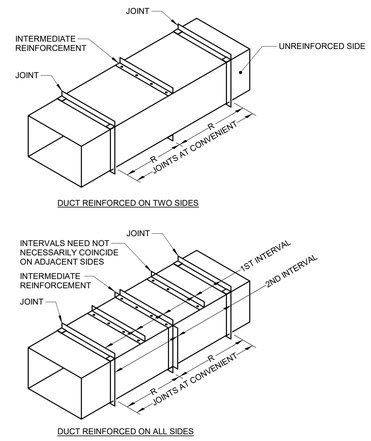


2 BRANCH CONNECTIONS

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.

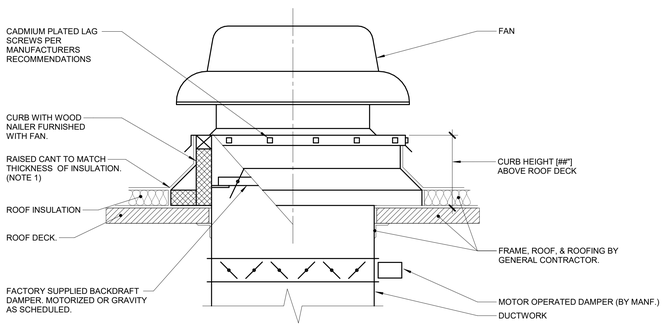


3 DUCT REINFORCEMENT DETAIL

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.

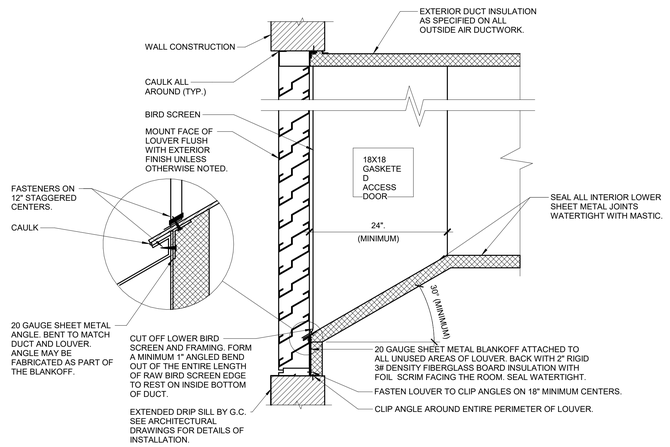


4 ROOF MOUNTED FAN/HOOD (BUILT-UP ROOF)

NO SCALE

NOTES:

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

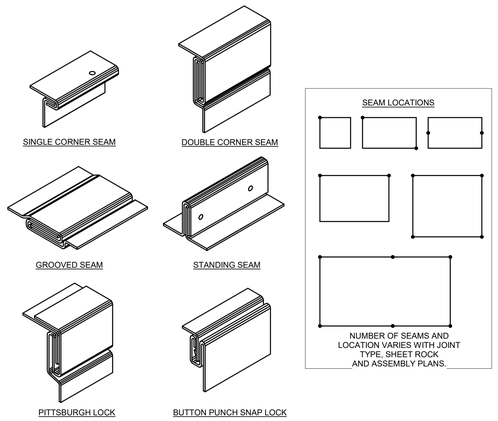


5 LOUVER INSTALLATION DETAIL

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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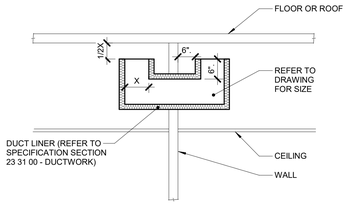
SHEET TITLE
MECHANICAL DETAILS

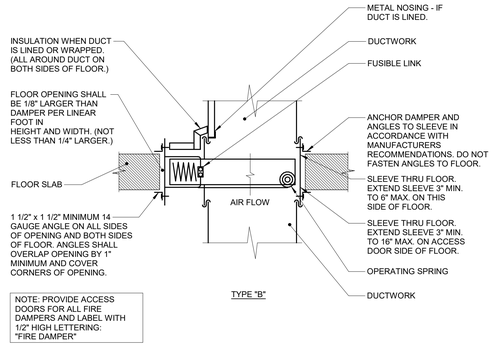
SCALE
Scale: 12" = 1'-0"

SHEET NUMBER
M400

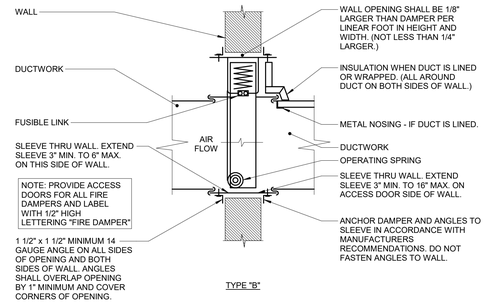
21002885.03 1/27/2022 5:10:15 PM ESSER HVAC Improvements - Flinn Middle School



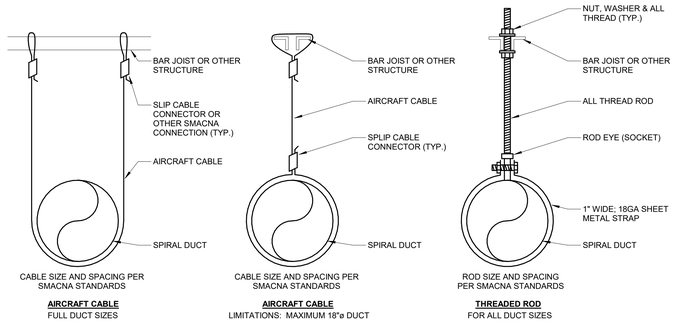
1 TRANSFER DUCT DETAIL (ENDS UP)
NO SCALE



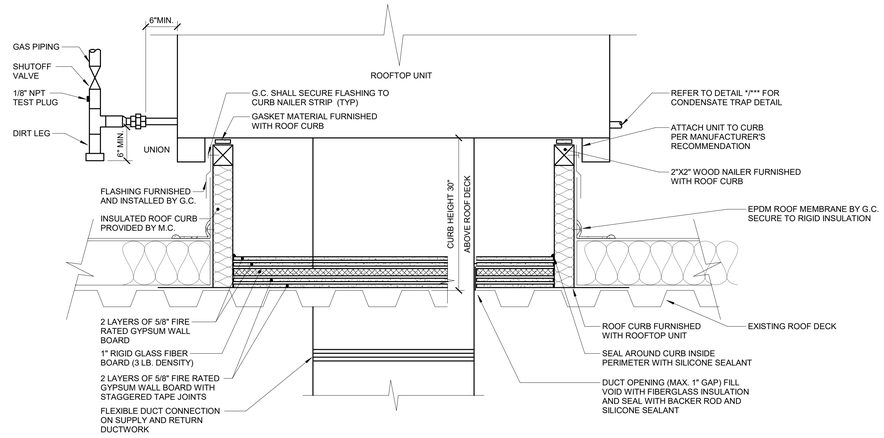
2 FIRE DAMPER THRU FLOOR DETAIL (TYPE B)
NO SCALE



3 FIRE DAMPER THRU WALL DETAIL (TYPE B)
NO SCALE



4 EXPOSED ROUND DUCT HANGERS
NO SCALE



5 ROOFTOP UNIT DETAIL
NO SCALE

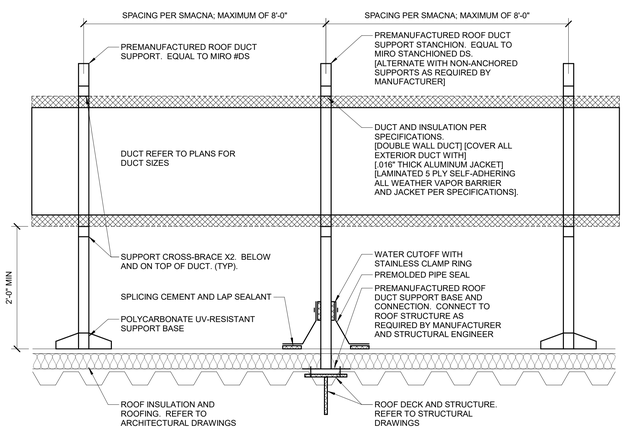
NOTES:

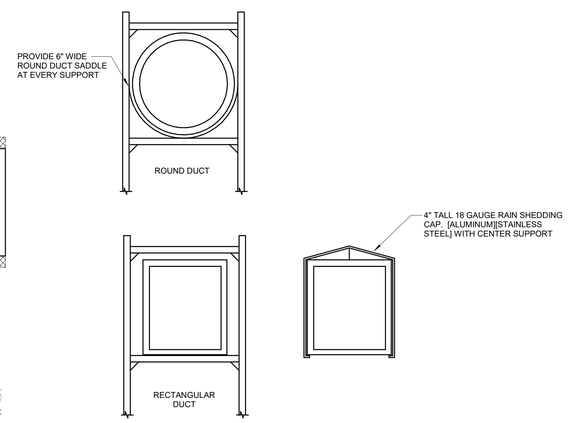
1. ALL ROOF FLASHING SHALL BE PER ROOF MANUFACTURER'S RECOMMENDATIONS.
2. ROOF CURB SHALL BE INSTALLED PER ROOF CURB MANUFACTURER'S RECOMMENDATIONS.
3. PROVIDE EXTENDED CURB AS REQUIRED TO MAINTAIN 12" CLEARANCE ABOVE INSULATION.

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]]





6 ROOF SUPPORT - EXPOSED DUCT (PREMANUFACTURED)
NO SCALE

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Scale: 12" = 1'-0"

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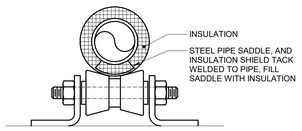
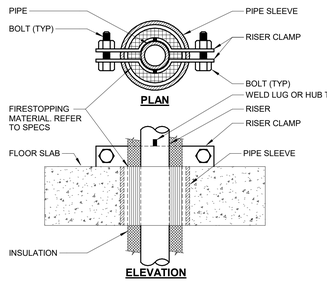
M401

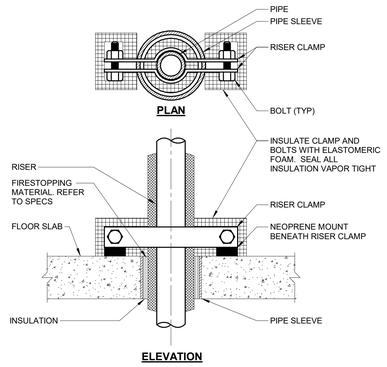
21002885.03 1/27/2022 5:10:16 PM ESSER HVAC Improvements - Flinn Middle School



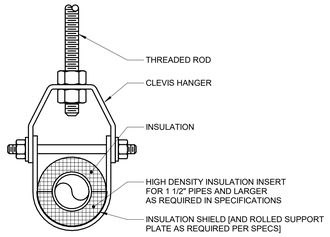
INSULATED HOT PIPE 4" AND LARGER



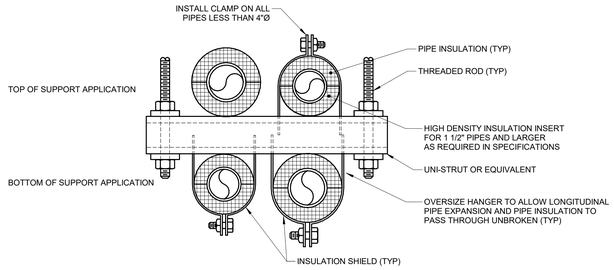
INSULATED HOT PIPE RISER SUPPORT



INSULATED COLD PIPE RISER SUPPORT



INSULATED COLD PIPE HANGER



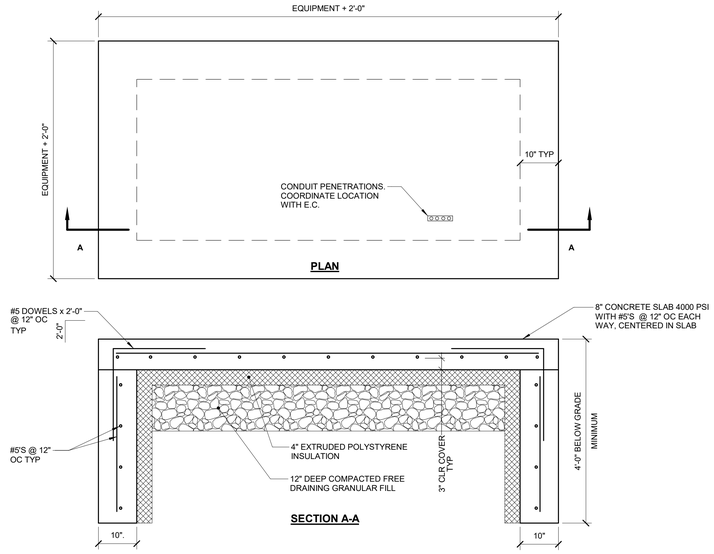
TRAPEZE HANGER

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).

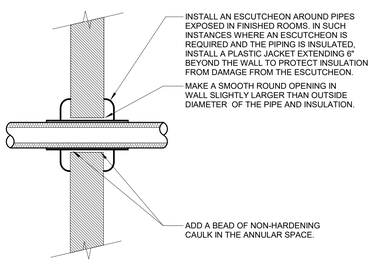


2 CHILLER SUPPORT SLAB (W/ FOOTINGS)

NO SCALE

NOTES:

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

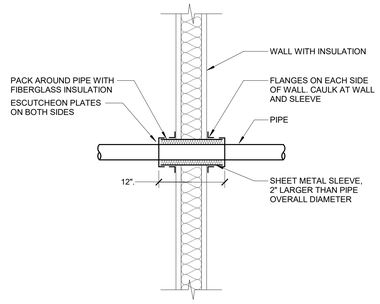


3 PIPE THROUGH NON-FIRE RATED WALL

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.



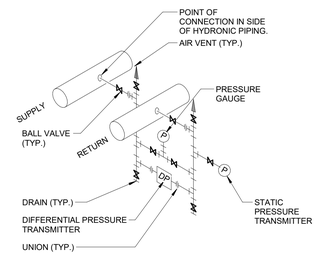
GYPSUM WALL CONSTRUCTION.

4 NOISE CONTROL WALL PENETRATION DETAIL (FRAMED WALL)

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.



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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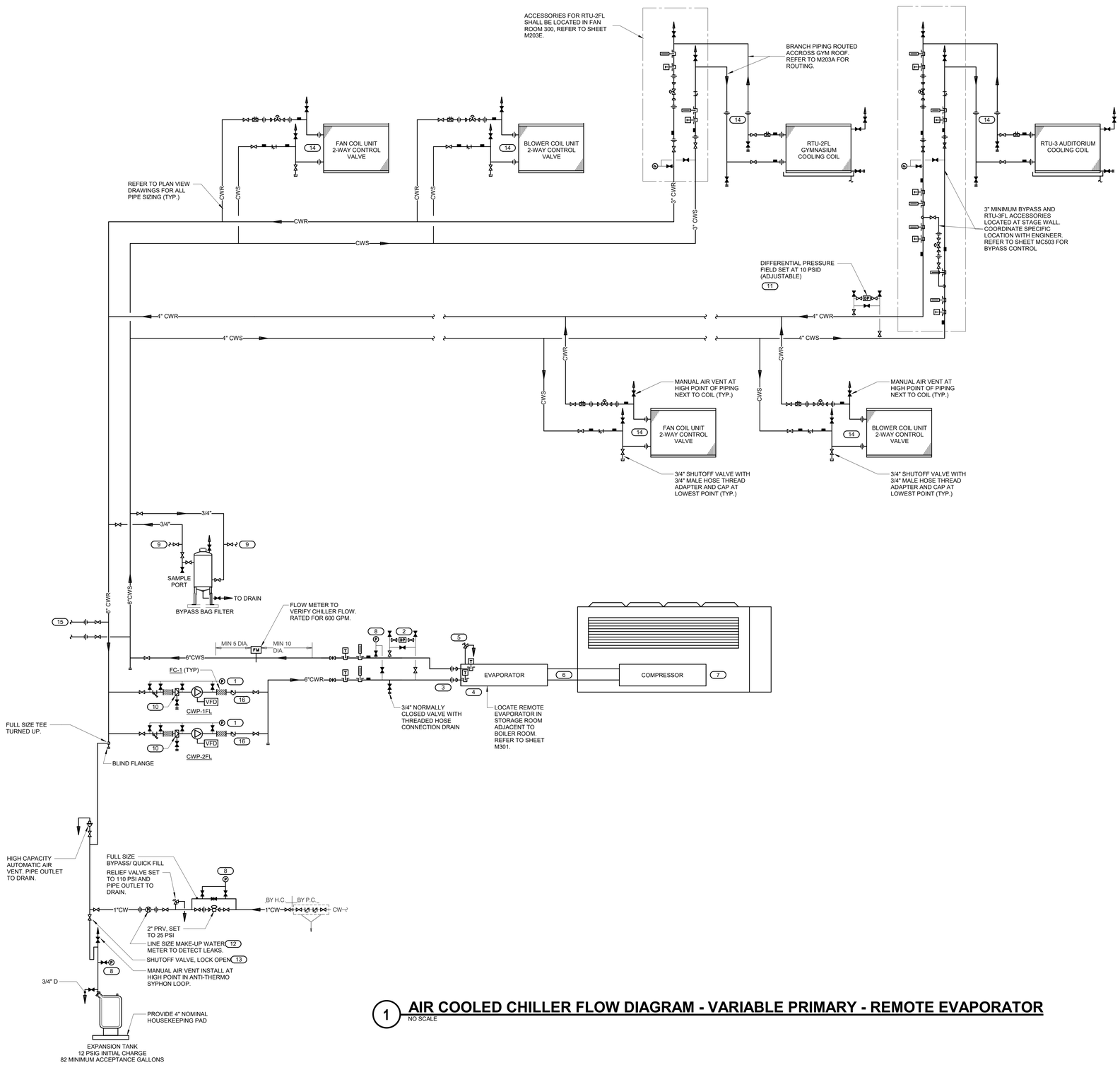

1 AIR COOLED CHILLER FLOW DIAGRAM - VARIABLE PRIMARY - REMOTE EVAPORATOR

NO SCALE

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. 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. CHILLED WATER SIDE SAFETY RELIEF VALVES PER ASME. 3/4" SRV-1. REFER TO SPECIFICATIONS.
6. INSTALL REFRIGERANT PIPING AND ACCESSORIES PER MANUFACTURERS REQUIREMENTS.
7. OUTDOOR UNIT LOCATED WEST OF BOILER PLANT WITHIN A FENCING ENCLOSURE. REFER TO SHEET M202A AND ARCHITECTURAL PLANS.
8. PRESSURE GAUGES SHALL BE GLYCERIN FILLED.
9. TO CHEMICAL FEED PIPING, BY CHEMICAL SUPPLIER. VERIFY NUMBER, SIZE, & LOCATION OF CONNECTIONS WITH MANUFACTURER.
10. REMOVE & RETAIN TEMPORARY STRAINER FROM SUCTION DIFFUSER AT END OF CONSTRUCTION. PROVIDE SUPPORT LEG AS REQUIRED BY MANUFACTURER.
11. DIFFERENTIAL PRESSURE SENSOR USED TO CONTROL VFD'S. PIPE PER MANUFACTURER'S RECOMMENDATIONS. VERIFY FINAL LOCATION WITH ENGINEER.
12. CHILLED WATER MAKE-UP WATER METER. MONITORED BY BUILDING AUTOMATION SYSTEM.REFER TO PLUMBING MATERIAL LIST ON SHEET P205 FOR WATER METER MATERIAL.
13. PROVIDE SIGN "DO NOT SHUT DURING SYSTEM OPERATION".
14. ARRANGE PIPING SO COILS CAN BE REMOVED WITHOUT REMOVING PIPING ABOVE THE UNIONS OR FLANGES. PIPE LOCATION MUST NOT RESTRICT OPENING OF ACCESS DOORS.
15. PROVIDE COUPON TEST RACK AS INDICATED IN CHEMICAL TREATMENT SPECIFICATIONS FOR CHILLED WATER SYSTEM.
16. TRIPLE DUTY OR BALANCING VALVES ARE NOT PERMITTED ON VARIABLE FLOW SYSTEMS. USE FLOW METER FOR PUMP FLOW TESTING.

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MECHANICAL DIAGRAM

SCALE

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SHEET NUMBER

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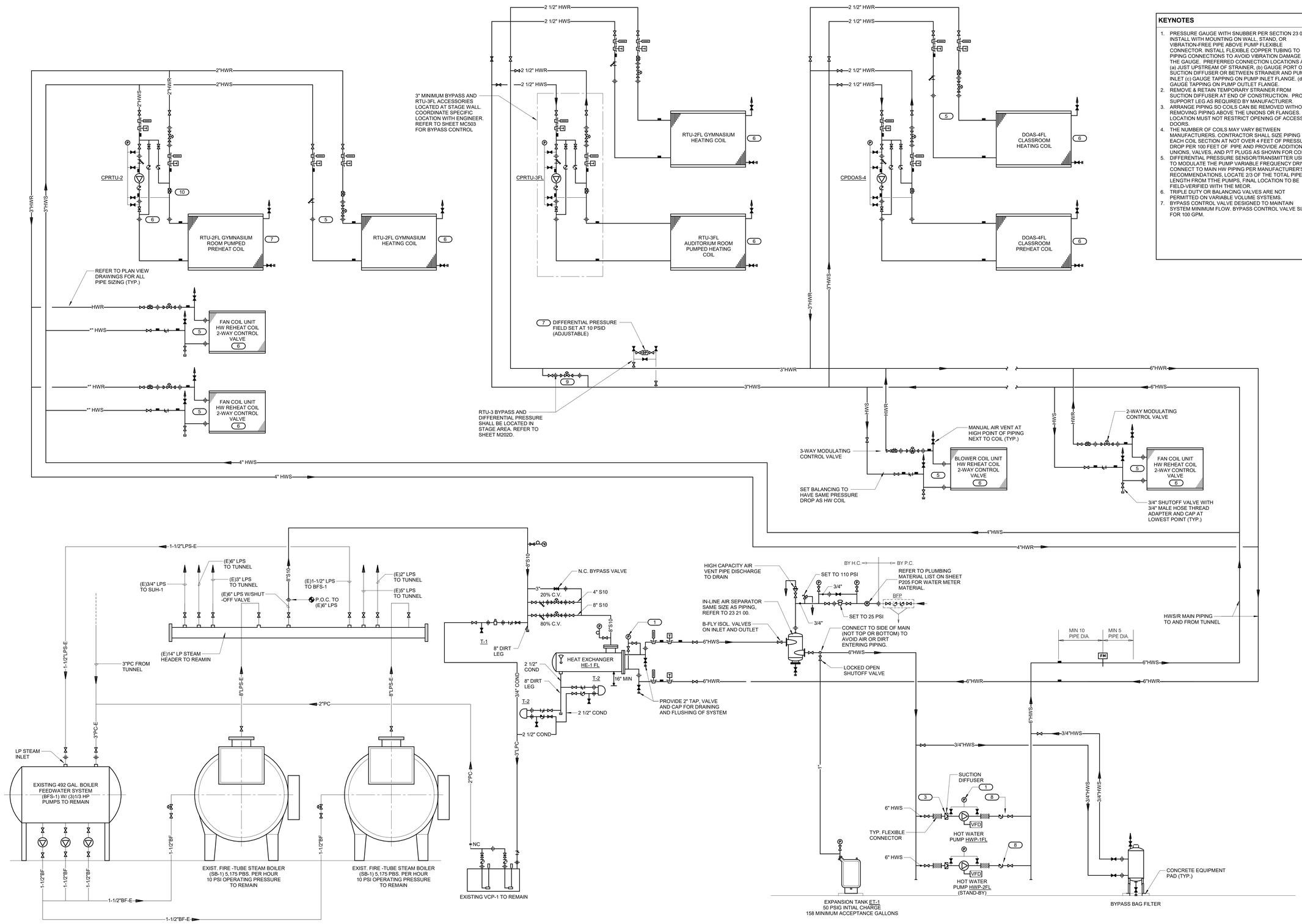

KEYNOTES

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. REMOVE & RETAIN TEMPORARY STRAINER FROM SUCTION DIFFUSER AT END OF CONSTRUCTION. PROVIDE SUPPORT LEG AS REQUIRED BY MANUFACTURER.
3. ARRANGE PIPING SO COILS CAN BE REMOVED WITHOUT REMOVING PIPING ABOVE THE UNIONS OR FLANGES. PIPE LOCATION MUST NOT RESTRICT OPENING OF ACCESS DOORS.
4. 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.
5. 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.
6. TRIPLE DUTY OR BALANCING VALVES ARE NOT PERMITTED ON VARIABLE VOLUME SYSTEMS.
7. BYPASS CONTROL VALVE DESIGNED TO MAINTAIN SYSTEM MINIMUM FLOW. BYPASS CONTROL VALVE SIZE FOR 100 GPM.

1 HEATING WATER FLOW DIAGRAM - HEAT EXCHANGER VARIABLE/PRIMARY

NO SCALE

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SHEET NUMBER

M501

21002885.03 1/27/2022 5:10:18 PM ESSER HVAC Improvements - Flinn Middle School

MAKE-UP AIR UNIT SCHEDULE

NOTES:
1. SINGLE-POINT ELECTRICAL CONNECTION
2. MANIFOLD PRESSURE GAUGE, 0-10" WC, 1UFRNACE, INLET PRESSURE GAUGE, 0-35' WC
3. RTU TOTAL CFM MONITORING
4. RTU4 DOWN DISCHARGE
5. INSULATED 16 GAUGE ROOF CURB, 80.0" WIDE X 111.0" LENGTH X 20.0" HIGH, 222 LBS., WITH RTU4 CURB DUCT HANGER
6. 2" MERV 8 FILTERS FOR RTU4, QUANTITY 12
7. OVERHEAT STAT, CLOGGED FILTER SWITCH, LOW PRESSURE GAS SWITCH, AND FREEZESTAT
8. CONTROL PANEL ENCLOSURE HEATER FOR WINTER DESIGN TEMPERATURES LESS THAN 0 DEG. F
9. RTU HEATED FURNACE CONDENSATE DRAIN KIT, REQUIRED FOR WINTER DESIGN TEMPERATURE OF 0 DEG, F AND LOWER
10. ECM FAN DOAS WITH ECM WIRING PACKAGE - SUPPLY FAN CONTROL RTU MUA BOARD
11. 30 TON MODULATING REHEAT OPTION - SPACE DEWPOINT CONTROL
12. 30 TON MODULATING COOLING OPTION, 460/480V, R410 REFRIGERANT, VARIABLE SPEED COMPRESSOR, AND ECM CONDENSING FANS

TAG NAME	AREA SERVED	COMPRESSOR TONNAGE	COMPRESSOR VOLTS/PH	OUTDOOR FAN QUANTITY	OUTDOOR FAN VOLTS/PH	EXT. S.P. IN. W.C.	CFM	BLOWER MODEL	MOTOR BHP	MOTOR HP	ELECTRICAL					INDOOR COIL		OSA TEMP. EDB	OSA TEMP. EWB	LEAVING AIR LDB	LEAVING AIR LWB	LEAVING DP TEMP.	TOTAL CAPACITY MBH	SENSIBLE CAPACITY MBH	LATENT CAPACITY MBH	REHEAT LDB	REHEAT LWB	REHEAT CAPACITY, MBH	HEATING TEMP. RISE	INPUT GAS PRESSURE	BURNER EFFICIENCY, %	MIN. MBH OUTPUT	FUEL TYPE	UNIT DIMENSIONS			OPERATING WEIGHT	MANUFACTURER	MODEL	NOTES
											VOLTAGE	PHASES	MCA	MOCP	DISCONNECT BY	NO. OF ROWS	FACE AREA, SQ. FT.																	LENGTH	WIDTH	HEIGHT				
MAU-1FL	KITCHEN	30	380-480V/3 PH	3	380-480V/3 PH	0.5	4900	222-4	1.797	5	460	1	71.8 A	80 A	E.C.	6	25.3	95.0 °F	78.0 °F	57.5 °F	54.3 °F	52.1 °F	384.00	188.6	195.4	70 °F	59.6 °F	66.6	78 °F	7 IN. W.C. - 14 IN. W.C.	80	480	NATURAL GAS	13'-2"	7'-2 3/4"	6'-11 3/8"	4583	CAPTIVEAIRE	CASRTU4-I.600-22-30T-DOAS	REFER TO NOTES 1 THRU 12 ABOVE.

BLOWER COIL UNIT SCHEDULE

NOTES:
1. PROVIDE 2" THICK, THROWAWAY MERV 8 AIR FILTER.
2. COMPLETE WITH FACTORY-INSTALLED CONDENSATE OVERFLOW SWITCH.
3. MANUFACTURER-FURNISHED TOGGLE DISCONNECT SWITCH AND STARTER FOR FIELD INSTALLATION AND WIRING.
4. UNIT SHALL BE COMPLETE WITH A FACTORY-FURNISHED CONDENSATE PUMP.

TAG NAME	BLDG. AREA	AREA SERVED	CONFIGURATION	CFM	EXT. S.P. IN W.C.	COOLING COIL									HEATING COIL					ELECTRICAL				MAX. DIMENSIONS			OPERATING WEIGHT (LBS)	MANUFACTURER	MODEL NUMBER	NOTES
						EAT		LAT		TOTAL MBH	SENSIBLE MBH	GPM	EWT °F	LWT °F	W.P.D. FT. HD	TOTAL MBH	GPM	EWT °F	LWT °F	W.P.D. FT. HD	HP	FAN RPM	VOLTAGE	PHASES	LENGTH (IN.)	WIDTH (IN.)	HEIGHT (IN.)			
						DB °F	WB °F	DB	WB																					
BCU-1FL	AREA-A	GIRLS LOCKER ROOM	HORIZONTAL EXPOSED CABINET	1320	1.00	76.0	63.4	52.8	54.7	42.70	33.70	5.3	43	59	6.13	44.10	2.9	140	110	0.81	1	1234	115	1	46	45.5	18	550	DAIKIN APPLIED	BCHD0161	REFER TO NOTES 1, 2, AND 3 ABOVE.
BCU-2FL	AREA-A	BOYS LOCKER ROOM	HORIZONTAL EXPOSED CABINET	3400	1.00	76.0	63.4	57.0	55.9	78.80	72.60	9.8	43	59	1.55	119.20	7.6	140	110	1.67	3	1168	208	3	41	54	30	775	DAIKIN APPLIED	BCHD0401	REFER TO NOTES 1, 2, AND 3 ABOVE.
BCU-3FL	AREA-A	UPPER GYM	HORIZONTAL EXPOSED CABINET	3720	1.00	76.0	66.4	54.7	54.5	136.78	86.61	17.1	43	59	6.23	68.38	6.5	140	119	4.30	5	1198	208	3	78	54	30	784	DAIKIN APPLIED	BCHD0401	REFER TO NOTES 1, 2, 3 AND 4 ABOVE.
BCU-4FL	AREA-D	DRESSING ROOM	HORIZONTAL EXPOSED CABINET, BOTTOM RETURN	285	0.00	76.0	63.4	59.6	57.1	5.44	5.11	0.7	43	59	0.20	10.05	0.7	140	110	0.66	0.125	1725	115	1	35	47.6	14	94	DAIKIN APPLIED	FCHC203	REFER TO NOTES 1, 2, 3 AND 4 ABOVE.
BCU-5FL	AREA-D	DRESSING ROOM	HORIZONTAL EXPOSED CABINET, BOTTOM RETURN	285	0.00	76.0	63.4	59.6	57.1	5.44	5.11	0.7	43	59	0.20	10.05	0.7	140	110	0.66	0.125	1725	115	1	35	47.6	14	94	DAIKIN APPLIED	FCHC203	REFER TO NOTES 1, 2, AND 3 ABOVE.
BCU-6FL	AREA-D	FACULTY	HORIZONTAL EXPOSED CABINET, BOTTOM RETURN	285	0.00	76.0	63.4	59.6	57.1	5.44	5.11	0.7	43	59	0.20	10.05	0.7	140	110	0.66	0.125	1725	115	1	35	47.6	14	94	DAIKIN APPLIED	FCHC203	REFER TO NOTES 1, 2, 3 AND 4 ABOVE.
BCU-7FL	AREA-E	SPEC ED COLL 120	HORIZONTAL EXPOSED CABINET	1300	1.00	76.0	63.4	52.8	52.3	42.70	33.70	5.3	43	59	6.13	44.10	2.9	140	110	0.81	1	1511	115	1	46	45.5	18	550	DAIKIN APPLIED	BCHD0161	REFER TO NOTES 1, 2, AND 3 ABOVE.
BCU-8FL	AREA-E	COMPUTER 119	HORIZONTAL EXPOSED CABINET	1900	1.00	76.0	63.4	52.9	52.5	60.80	48.50	7.6	43	59	4.71	63.50	4.2	140	110	1.77	2	1701	208	3	46	54	18	660	DAIKIN APPLIED	BCHD0201	REFER TO NOTES 1, 2, AND 3 ABOVE.
BCU-9FL	AREA-E	SPEC ED MEETING 120B	HORIZONTAL EXPOSED CABINET	1600	0.50	76.0	63.4	55.8	54.7	41.20	35.40	5.2	43	59	4.41	56.90	3.8	140	110	1.44	1	1234	115	1	46	54	18	635	DAIKIN APPLIED	BCHD0181	REFER TO NOTES 1, 2, AND 3 ABOVE.
BCU-10FL	AREA-E	BOOK STORAGE 121	HORIZONTAL EXPOSED CABINET	2800	1.00	76.0	63.4	53.1	52.5	87.80	69.70	11.0	43	59	3.50	94.60	6.5	140	110	1.47	3	1595	208	3	38	49	26	665	DAIKIN APPLIED	BCHD0301	REFER TO NOTES 1, 2, AND 3 ABOVE.
BCU-11FL	AREA-E	OFFICE 120.2	HORIZONTAL EXPOSED CABINET, BOTTOM RETURN	285	0.00	76.0	63.4	59.6	57.1	5.44	5.11	0.7	43	59	0.20	10.05	0.7	140	110	0.66	0.125	1725	115	1	35	47.6	14	94	DAIKIN APPLIED	FCHC203	REFER TO NOTES 1, 2, AND 3 ABOVE.
BCU-12FL	AREA-F	SPEC ED 124	HORIZONTAL EXPOSED CABINET	3600	1.00	76.0	63.4	53.8	53.2	106.50	86.90	13.3	43	59	4.01	118.10	7.9	140	110	1.81	5	1200	208	3	41	54	30	805	DAIKIN APPLIED	BCHD0401	REFER TO NOTES 1, 2, AND 3 ABOVE.
BCU-13FL	AREA-F	8TH GRADE SEMINAIR 123	HORIZONTAL EXPOSED CABINET	2000	1.00	76.0	63.4	53.0	52.6	63.81	51.00	8.0	43	59	5.13	65.60	4.4	140	110	1.86	2	1749	208	3	46	54	18	660	DAIKIN APPLIED	BCHD0201	REFER TO NOTES 1, 2, AND 3 ABOVE.
BCU-14FL	AREA-D	STAGE	HORIZONTAL EXPOSED CABINET	2500	0.50	76.0	65.0	52.6	52.2	94.98	63.96	11.9	43	59	11.80	83.14	5.5	140	110	1.12	3	1257	208	3	38	49	26	601	DAIKIN APPLIED	BCHD0301	REFER TO NOTES 1, 2, AND 3 ABOVE.
BCU-15FL	AREA-D	STAGE	HORIZONTAL EXPOSED CABINET	2500	0.50	76.0	65.0	52.6	52.2	94.98	63.96	11.9	43	59	11.80	83.14	5.5	140	110	1.12	3	1257	208	3	38	49	26	601	DAIKIN APPLIED	BCHD0301	REFER TO NOTES 1, 2, AND 3 ABOVE.
BCU-16FL	AREA-D	LITTLE THEATER	HORIZONTAL EXPOSED CABINET	2570	1.00	76.0	63.4	53.0	52.5	81.72	64.72	10.2	43	59	3.09	64.22	6.5	140	120	5.00	3	1508	208	3	68	49	26	651	DAIKIN APPLIED	BCHD0301	REFER TO NOTES 1, 2, AND 3 ABOVE.
BCU-17FL	AREA-B	LIBRARY 149, LIBRARY OFFICE 149.2, AND STORAGE 149.3	HORIZONTAL EXPOSED CABINET	3380	1.00	76.0	63.4	55.6	54.5	89.45	75.31	11.2	43	59	5.57	79.67	6.5	140	115	4.36	3	1101	208	3	78	54	30	755	DAIKIN APPLIED	BCHD0401	REFER TO NOTES 1, 2, AND 3 ABOVE.

AIR COOLED CHILLER SCHEDULE1

NOTES:
1. REFER TO SPECIFICATION SECTION 23 64 30 FOR ADDITIONAL REQUIREMENTS.
2. PROVIDE WITH NEOPRENE VIBRATION ISOLATORS UNDER BASE RAIL. REFER TO 23 05 93 FOR DETAILS.
3. PROVIDE LOW AMBIENT CONTROL DOWN TO 32 DEGREES.
4. PROVIDE UNIT WITH INTERNAL DISCHARGE COMPRESSOR MUFFLER FOR UNIT SOUND CONTROL
5. UNIT SOUND POWER DATA LISTED IS AT 100% CAPACITY AT 30'.
6. PROVIDE UNIT WITH ARCHITECTURAL SIDE PANELS.
7. PROVIDE LOAD SIDE POWERED GFI OUTLET, CONTRACTOR TO COORDINATE IF A SEPARATE CIRCUIT IS REQUIRED.
8. MANUFACTURER TO PROVIDE REMOTE EVAPORATOR WITH REFRIGERANT SPECIALTIES, FLOW SWITCH AND STRAINER.
9. CONTRACTOR TO PROVIDE MANUFACTURER SPECIFIC DETAILED ISOMETRIC PIPING DRAWING FOR APPROVAL PRIOR TO PIPING.
10. MANUFACTURER SHALL PROVIDE LOW SOUND COMPRESSOR ENCLOSURE, MUST MEET SPECIFIED SOUND POWER LEVELS.
11. MANUFACTURER TO PROVIDE CONDENSER COIL AND BASE FRAME LOUVERS.
12. MANUFACTURERS REPRESENTATIVE SHALL PROVIDE START-UP AND FIRST YEARS PARTS AND LABOR.
13. MANUFACTURER SHALL PROVIDE FIRST YEAR REFRIGERANT WARRANTY.
14. BASIS OF DESIGN MANUFACTURER/MODEL ON SCHEDULE AND PIPING DIAGRAMS HAS BEEN SHOWN ON THE CONSTRUCTION DOCUMENTS. IF INSTALLING CONTRACTOR SELECTS ANOTHER LISTED ACCEPTABLE MANUFACTURER/MODEL, SAID CONTRACTOR SHALL BE RESPONSIBLE FOR ANY REQUIRED CHANGES NEEDED FOR BOTH THE H.C. AND OTHER TRADES TO WORK FOR THE SELECTED MANUFACTURER.
15. SOUND VALUES SHOWN SHALL BE CONSIDERED MAXIMUM VALUES.
16. CHILLER REFRIGERANT AND CHARGE PROVIDE BY H.C.

TAG NAME	AREA SERVED	CONDENSING UNIT MAX. DIMENSIONS			REFRIGERANT	REFRIGERANT CHARGE LBS.	AMBIENT TEMP °F	MIN. OPERATING AMBIENT TEMP. °F	CAPACITY/PERFORMANCE			EVAPORATOR PERFORMANCE					VIBRATION ISOLATION		MAXIMUM ALLOWABLE SOUND POWER IN DB RE 10^{-12} WATTS OCTAVE BAND CENTER FREQUENCY						COMPRESSOR STARTER TYPE	ELECTRICAL									SINGLE UNIT CONNECTION			WEIGHT		MANUFACTURER	MODEL (NOTE 1)	NOTES
																											DISCONNECT		CONTROLLER/ STARTER													
		LENGTH	WIDTH	HEIGHT					DESIGN TONS	STAGES OF UNLOADING	TOTAL CAPACITY MBH	EWT °F	LWT °F	GPM	MAX. PRESSURE DROP (FT. W.G.)	FOULING FACTOR	TYPE	DEFL.	63	125	250	500	1000	2000	4000		VOLTAGE	PHASES	LRA FAN MOTOR	MCA	MOCP AMPS	BY (NOTE A)	TYPE (NOTE B)	BY (NOTE A)	TYPE (NOTE C)	SCCR	VOLTAGE	PHASE	MCA	DRY	OPERATING		MODEL (NOTE 1)	NOTES
CHLR-1FL	BUILDING CHILLED WATER	447.5	88	100	HFC-134A	486	95 °F	32 °F	300	2	3120	58.6 °F	43 °F	449	30.4	0.0001	M!	0.75"	80	77	73	72	69	64	57	VFD	460 V	3	22 @ 10A	518	700 A	E.C.	NF	MFR	FV	10000 KAIC	460 V	3	518	16587	17475	DAIKIN APPLIED	AWV022B	SEE ABOVE

PUMP SCHEDULE

NOTES:
1.PROVIDE SHAFT GROUNDING AS REQUIRED IN THE MOTOR SPECIFICATION ----{15170} [22 05 13] [23 05 13].
2.MINIMUM FLOW SHALL BE 100 GPM FOR THE FOLLOWING PUMPS: CWP-1FL, CWP-2FL, HWP-1FL, HWP-2FL
3.CONTRACTOR NOTE: BYPASS BAG FILTER FLOW HAS BEEN ADDED TO ALL SYSTEM PUMPS

TAG NAME	AREA SERVED	GPM	PUMP FT. HEAD AT DESIGN	MINIMUM PUMP EFFICIENCY	INLET SIZE	IMPELLER SIZE	ELECTRICAL (NOTE 1)								MAX. DIMENSIONS			VIBRATION ISOLATION		MANUFACTURER	MODEL	NOTES
							HP (NOTE E)	RPM	VOLTAGE	PHASES	DISCONNECT		CONTROLLER/ STARTER		LENGTH	WIDTH	HEIGHT	TYPE	DEFL.			
											BY (NOTE A)	TYPE (NOTE B)	BY (NOTE A)	TYPE (NOTE C)								
CPDOAS-4	DOAS-4 PREHEAT	50.0	25.00	66.5	1 1/2"	5.250	0.75	1750	277	1	E.C.	F	E.C.	FV	11.5"	7.9"	17.3"	H2	3/4"	BELL & GOSSETT	1 1/2AAB	
CPRTU-2	RTU-2 PREHEAT	45.5	25.00	66.5	1 1/2"	5.250	0.75	1750	277	1	E.C.	F	E.C.	FV	11.5"	7.9"	17.3"	H2	3/4"	BELL & GOSSETT	1 1/2AAB	
CPRTU-3	RTU-3 PREHEAT	79.5	28.00	66.5	2"	5.250	0.75	1750	277	1	E.C.	F	E.C.	FV	11.5"	7.9"	17.3"	H2	3/4"	BELL & GOSSETT	1 1/2AAB	
CWP-1 FL	BLDG. CHILLED WATER	585.0	88.00	80.5	5"	10.500	20	1750	480	3	E.C.	F	E.C.	FV	42-3/4"	16.0"	23-3/4"	0	0"	BELL & GOSSETT	4EB	
CWP-2 FL	REDUNDANT BLDG. CHILLED WATER	585.0	88.00	80.5	5"	10.500	20	1750	480	3	E.C.	F	E.C.	FV	42-3/4"	16.0"	23-3/4"	0	0"	BELL & GOSSETT	4EB	
HWP-1 FL	BLDG. HEATING WATER	592.0	88.00	80.5	5"	10.500	20	1750	480	3	E.C.	F	E.C.	FV	42-3/4"	16.0"	23-3/4"	0	0"	BELL & GOSSETT	4EB	
HWP-2 FL	REDUNDANT BLDG. HEATING WATER	592.0	88.00	80.5	5"	10.500	20	1750	480	3	E.C.	F	E.C.	FV	42-3/4"	16.0"	23-3/4"	0	0"	BELL & GOSSETT	4EB	

CABINET HEATER SCHEDULE - HOT WATER

NOTES:
1. MANUFACTURER'S STANDARD COLOR OPTION AS SELECTED BY THE ARCHITECT.
2. REFER TO TEMPERATURE CONTROL DRAWING FOR SEQUENCE OF OPERATION.
3. PROVIDE CABINET HEATERS WITH UNIT MOUNTED CONTROL.

TAG NAME	AREA SERVED	MAX. DIMENSIONS			CONFIGURATION	NOMINAL CFM	MBH	GPM	EWT °F	LWT °F	CONTROL TYPE	CABINET (NOTE 1)			ELECTRICAL							MANUFACTURER	MODEL	NOTES	comments
																		DISCONNECT		CONTROLLER/ STARTER					
		HEIGHT	WIDTH	DEPTH								LENGTH	WIDTH	HEIGHT	FAN HP	VOLTAGE	PHASES	BY (NOTE A)	TYPE (NOTE B)	BY (NOTE A)	SCCR				
CAB-STAIR-A	AREA A - STAIR	25"	80.6"	14"	HORIZONTAL EXPOSED CABINET	1143	58.4	3.9	140	110	NOTE 4	25"	80.6"	14"	2@1/4"	120	1	MFR	NF	MFR	5000	DAIKIN	FHHC210	NOTE 1, 2	
CAB-STAIR-B	AREA B - STAIR	25"	80.6"	14"	HORIZONTAL EXPOSED CABINET	1143	58.4	3.9	140	110	NOTE 4	25"	80.6"	14"	2@1/4"	120	1	MFR	NF	MFR	5000	DAIKIN	FHHC210	NOTE 1, 2	
CAB-STAIR-D	AREA D - STAIR	25"	91.6"	14"	HORIZONTAL EXPOSED CABINET	1148	89.0	6.0	140	110	NOTE 4	25"	91.6"	14"	2@1/4"	120	1	MFR	NF	MFR	5000	DAIKIN	FHHC212	NOTE 1, 2	
CAB-STOR-B	AREA B - STORAGE	25"	69.6"	14"	HORIZONTAL EXPOSED CABINET	845	44.2	2.9	140	110	NOTE 4	25"	69.6"	14"	1@1/4"	120	1	MFR	NF	MFR	5000	DAIKIN	FHHC208	NOTE 1, 2	
CAB-VEST-A	AREA A - VESTIBULE	25"	69.6"	14"	HORIZONTAL EXPOSED CABINET	845	44.2	2.9	140	110	NOTE 4	25"	69.6"	14"	1@1/4"	120	1	MFR	NF	MFR	5000	DAIKIN	FHHC208	NOTE 1, 2	
CAB-VEST-E	AREA E - VESTIBULE	25"	69.6"	14"	HORIZONTAL EXPOSED CABINET	845	44.2	2.9	140	110	NOTE 4	25"	69.6"	14"	1@1/4"	120	1	MFR	NF	MFR	5000	DAIKIN	FHHC208	NOTE 1, 2	

HEAT EXCHANGER SCHEDULE - STEAM TO WATER

NOTES:
1.STEAM PRESSURE INDICATED IS THE PRESSURE AVAILABLE DOWNSTREAM OF THE CONTROL VALVE.
2. TOTAL HEAT EXCHANGED SHALL BE 7,000,000
3. HEAT EXCHANGER SHALL HAVE AN 8" FLAGE CONNECTION.
4. UNIT SHALL BE 439 STAINLESS STEEL.

TAG NAME	AREA SERVED	WATER				STEAM (NOTE 1)		HEATING SURFACE FT²	FOULING FACTOR	MAX. DIMENSIONS		MANUFACTURER	MODEL	NOTES
		GPM	W.P.D. FT. HEAD	EWT °F	LWT °F	PSIG	LB/HR			LENGTH	DIAMETER			
HE-1FL	BUILDING HEATING SYSTEM	472.0	6.5	110	140	5	7240	177.0	0.0001	82	20"	BELL & GOSSET	SU-146-2	REFER TO NOTES ABOVE

TRAP SCHEDULE

NOTES:
1.CAPACITY LISTED IS FOR EACH TRAP AND INCLUDES SAFETY FACTOR.
2.SUITABLE TO 175 PSIG, SIDE INLET & OUTLET, SS FLOAT MECHANISM AND VALVE, CAST IRON BODY, BALANCED PRESSURE THERMOSTATIC AIR VENT, ALL INTERNALS REPLACEABLE IN-LINE.
3.SIDE INLET AND OUTLET INVERTED BUCKET TRAP. 250 PSIG RATED. CAST IRON BODY, ALL INTERNAL COMPONENTS OF STAINLESS STEEL AND REPLACEABLE IN-LINE.

TAG NAME	AREA SERVED	TYPE	SAFETY FACTOR	SIZE	CAPACITY LB HR(NOTE 1)	PRESSURE CLASS	PRESSURE DIFFERENTIAL	MANUFACTURER.	MODEL.	NOTES.
T-1	DRIP	I.B	3:1	3/4"	338	250	0.5	ARMSTRONG	811T	NOTES 3 & 4
T-2	HE-1FL	F&T	2:1	2 1/2"	7,000	175	0.5	ARMSTRONG	50KD8	NOTES 2

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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	21002885.03
Drawn	J.D.C.
Checked	M.L.
Approved	B.P.

SHEET TITLE
MECHANICAL SCHEDULES

SCALE
Scale:

SHEET NUMBER
M600

DEDICATED OUTDOOR AIR UNIT, PACKAGED GAS/DX

NOTES:
1. UNIT SHALL BE COMPLETE WITH POWERED RETRUN/EXHAUST FAN, MODULATIING WITH BUILDING PRESSURE CONTROL, INVERTER SCROLL COMPRESSOR WITH MODULATING CONTROL, AND ALUMINUM MICROCHANNEL CONDENSER COILS.
2. COMPLETE WITH MANUFACTURER FURNISHED AND INSTALLED BACNET/MSTP COMMUNICATION CARD, UNIT POWERED 115V GFI OUTLET.
3. MANUFACTURER FURNISHED AND CONTRACTOR INSTALLED CO2 SENSOR, AND NON-FUSED DISCONNECT SWITCH AND STARTER FOR FIELD CONNECTION.
4. MANUFACTURER FURNISHED AND CONTRACTOR INSTALLED 24 IN. HIGH INSULATED ROOF CURB, WITH ERW, SIZE 016-028.
5. COMPLETE WITH HOT GAS REHEAT MHRGH WITH CONTRACTOR INSTALLED COMBINATION SPACE AND HUMIDITY SENSOR.
6. COMPLETE WITH FACTORY-FURNISHED NON-FUSED DISCONNECT AND INDIVIDUAL MOTOR STARTERS/VFD'S FOR THE SUPPLY FAN AND COMPRESSOR.

TAG NAME	BLDG. AREA	AREA SERVED		SUPPLY FAN							EXHAUST FAN						GAS HEATING				HOT GAS REHEAT COIL				DX COOLING COIL						ENERGY RECOVERY									FILTER			ELECTRICAL				CONDENSING UNIT SECTION					MAX. DIMENSIONS, IN.					
																																		EFFECTIVENESS																									
			EER/SEER	NO. OF FANS	CFM TOTAL	EXTERNAL S.P., IN. WG	TOTAL STATIC PRESSURE, IN. WG	TYPE	BHP EACH	MHP EACH	NO. OF FANS	CFM TOTAL	TYPE	EXTERNAL SP, IN. WG	BHP EACH	MHP EACH	EAT °F DB	LAT DB	TOTAL MBH	GAS HEATER SIZE	A.P.D. IN. W.C.	LAT, DB	LAT, WB	CAPACITY MBH	APD IN. W.C.	REHEAT FACE AREA, SQ. FT.	TOTAL CAPACITY, BTUH	SENSIBLE CAPACITY, BTUH	EAT °F DB	EAT °F WB	LAT °F DB	LAT °F WB	A.P.D. IN. W.C.	SUMMER MIXED AIR DB	COOLING RECOVERED CAPACITY	WINTER MIXED AR DB	HEATING RECOVERED CAPACITY	TOTAL COOLING	SENSIBLE COOLING	TOTAL HEATING	SENSIBLE HEATING	ERW PRESSURE DROP, IN. WG	ERW MOTOR HP	ERW FLA	TYPE	VELOCITY	AIR PRESSURE DROP	VOLTAGE	PHASES	MCA	MROPD	COMPRESSOR QUANTITY	COMPRESSOR POWER, KVA	COMPRESSOR 1 AMPS	COMPRESSOR 2 AMPS	FAN MOTOR QUANTITY	FAN MOTOR TOTAL FLA	LENGTH	WIDTH	HEIGHT	OPERATING WEIGHT, LBS.	MANUFACTURER	MODEL
DOAS-1FL	AREA-A	BOYS AND GIRLS LOCKER ROOMS, UPPER GYM, GYM STORAGE, POOL STORAGE	11.7	1	5100	2.00	3.63	SWSI-AF	5.67	7.5	1	5100	SWSI-AF	1.5	3.11	4.0	45.3	88.7	240	300 MBH	0.16	75.0	62.1	110.96	0.04	21.6	186744	145,866	81.1	66.7	54.9	54.9	0.27	78.2 °F	147,529 Btu/h	45.3 °F	341,293 Btu/h	51.21	61.16	61.16	64.88	0.57	0.17	0.4 A	2" MERV 8, 4" MERV 14	188.9	0.15	460	3	46.4	60.0	1	11.3	22.9 A		2	5.2 A	205.9	76.5	82.5	4320	DAIKIN APPLIED	DPS016A
DOAS-2FL	AREA-A	CAFETERIA, KITCHEN, FACULTY LOUNGE, RECEIVING	10.4	1	7180	1.00	3.49	SWSI-AF	7.60	10	1	7180	SWSI-AF	1.0	5.05	8.0	46.3	92.6	360	450 MBH	0.23	70.0	60.1	121.92	0.06	21.6	254571	194,185	79.1	65.9	54.3	54.3	0.36	79.8 °F	177,069 Btu/h	39.6 °F	427,080 Btu/h	43.62	51.18	55.64	57.43	0.83	0.17	0.4 A	COMBO 2"/4" RACK WITH 2" MERV 8	265.9	0.11	460	3	61.4	90.0	1	17.7	30.1 A		2	5.2 A	205.9	76.5	82.5	4383	DAIKIN APPLIED	DPS020A
DOAS-3FL	AREA-B	LIBRARY, CONFERENCE ROOM, SPEECH, AND CLASSROOMS	11.2	1	4205	1.00	2.83	SWSI-AF	2.97	4	1	4205	SWSI-AF	1.0	2.22	4.0	39.7	92.3	240	300 MBH	0.09	70.0	60.4	69.17	0.07	14.6	149270	114,624	79.8	66.3	54.8	54.8	0.27	79.8 °F	103,767 Btu/h	39.7 °F	250,426 Btu/h	43.67	51.46	55.69	57.54	0.81	0.17	0.4 A	COMBO 2"/4" RACK WITH 2" MERV 8	233.6	0.11	460	3	26.5	30.0	2	9.5	6.8 A	7.9 A	2	1.8 A	132.7	96.5	56.8	2828	DAIKIN APPLIED	DPS012A
DOAS-5FL	AREA-E	BOOK STORAGE, 8TH GRADE SEMINAR, SPEC. ED. CLASSROOM, AMD OFFICES	11.2	1	4530	1.00	3.09	SWSI-AF	3.49	4	1	4530	SWSI-AF	1.0	2.56	4.0	38.1	103.2	320	400 MBH	0.16	70.0	60.9	69.59	0.08	14.6	151460	120,827	80.2	66.5	55.8	55.8	0.30	80.2 °F	108,739 Btu/h	38.1 °F	260,968 Btu/h	42.33	48.54	53.95	55.40	0.83	0.17	0.4 A	COMBO 2"/4" RACK WITH 2" MERV 8	251.7	0.12	460	3	26.5	30.0	2	9.6	6.8 A	7.9 A	2	1.8 A	132.7	96.5	56.8	2828	DAIKIN APPLIED	DPS012A
DOAS-6FL	AREA-E	ART AND SPEC. ED. CLASSROOMS	10.8	1	4750	1.00	3.31	SWSI-AF	3.90	8	1	4750	SWSI-AF	1.0	2.82	4.0	37.0	99.1	320	400 MBH	0.17	70.0	60.3	79.00	0.09	14.6	175502	134,483	80.6	66.6	54.7	54.6	0.38	80.6 °F	112,350 Btu/h	37.0 °F	267,380 Btu/h	41.57	46.49	52.80	53.90	0.93	0.17	0.4 A	COMBO 2"/4" RACK WITH 2" MERV 8	263.9	0.14	460	3	35.8	45.0	2	12.5	7.9 A	12.8 A	2	1.8 A	132.7	96.5	56.8	2991	DAIKIN APPLIED	DPS015A
DOAS-7FL	AREA-D	BAND/CHOIR, INTR. COACH, SILE CLASSROOM	12.1	1	3290	1.00	2.25	SWSI-AF	1.89	8	1	3290	SWSI-AF	1.0	1.52	4.0	44.0	88.8	160	200 MBH	0.03	70.0	60.2	53.06	0.04	14.6	120620	91,468	80.6	66.6	55.1	54.7	0.19	78.6 °F	90,931 Btu/h	44.0 °F	214,010 Btu/h	49.00	58.95	60.84	63.13	0.62	0.17	0.4 A	COMBO 2"/4" RACK WITH 2" MERV 8	182.8	.07	460	3	26.3	30.0	2	8.1	4.5 A	7.9 A	2	1.8 A	132.7	96.5	56.8	2818	DAIKIN APPLIED	DPS010A
DOAS-8FL	AREA-D	LITTLE THEATER, DRESSING ROOMS, FACULTY/PRINT, AND CLASSROOMS	11.1	1	6280	1.00	3.05	SWSI-AF	4.62	7.5	1	6280	SWSI-AF	1.0	3.80	8.0	41.6	94.4	360	360 MBH	0.20	70.0	59.3	117.18	0.05	21.6	250769	181,650	79.3	66.0	52.8	52.8	0.31	79.1 °F	164,105 Btu/h	42.2 °F	393,677 Btu/h	46.36	55.74	58.59	60.80	0.72	0.17	0.4 A	COMBO 2"/4" RACK WITH 2" MERV 8	232.6	0.09	460	3	58.6	80.0	1	18.0	30.1 A		2	5.2 A	205.9	76.5	82.5	4480	DAIKIN APPLIED	DPS020A

PACKAGED ROOFTOP UNIT SCHEDULE – GAS-DX

NOTES:
1.POWER EXHAUST POWERED SEPARATELY.
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 (AS NOTED BELOW) DISCHARGE OF RTU.
5.REFER TO CONTROL DRAWINGS FOR DESCRIPTION OF CONTROL TYPE.
6.DISCONNECT/CONTROLLER STARTER BY MANUFACTURER, SCCR RATING = 10,000.

TAG NAME	AREA SERVED	NOMINAL TONS	OUTSIDE AIR (CFM)	SUPPLY FAN							UNIT ELECTRICAL DATA					DX COIL												INDIRECT GAS FIRED FURNACE							HOT GAS REHEAT							
				NO. OF FANS	CFM TOTAL	TOTAL STATIC PRESSURE	EXT S.P. IN W.C.	R P M	BHP EACH	MHP EACH	VOLTAGE	PHASES	FLA	MCA	MOCP	AMB TEMP °F	EAT DB °F	EAT WB °F	LAT DB °F	LAT WB °F	SEER (EER)	COIL CFM	SENSIBLE MBH	TOTAL MBH	REFRIGERANT	CIRCUITS	DX COIL SST	ROWS/FPI	COIL APD	INPUT MBH	OUTPUT MBH	CFM	EDB	LDB	GAS PRESSURE	APD	STAGES (NOTE 6)	CFM	EAT, DB	EAT, WB	LAT, DB	LAT, WB	REHEAT MBH	NO. OF CIRCUITS	ROWS/FPI	APD IN. W.C.
RTU-1FL	POOL	36.8	6000	2	12000	5.06 in-wg	2.0	2189	6.7	7.5	460	3	102.6 A	113.9 A	0 A	95 °F	84.4	77.2	57.1	57.0	11.1	6,000 CFM	181.3	441.7	R-410A	2	45.9 °F	6/12	0.87 in-wg	550	440	12,000 CFM	62.7 °F	96.7 °F	6-14" WC	0.31 in-wg	4	12,000 CFM	69.5 °F	64.7 °F	86.5 °F	70.1 °F	222	2	2/10	0.27 in-wg

PACKAGED ROOFTOP UNIT SCHEDULE – GAS-DX - CONT.

TAG NAME	EXHAUST FAN							RETURN FILTER								MAX DIMENSIONS			OPERATING WEIGHT, LBS.	MANUFACTURER	MODEL	NOTES
	NO. OF FANS	CFM EACH	TOTAL SP, IN. WC	EXT S.P. IN W.C.	RPM	BHP EACH	MHP EACH	CFM	FILTER TYPE	FILTER DEPTH	FACE VELOCITY	FILTER QUANTITY	FILTER DIMENSIONS	FILTER CLEAN APD	FILTER TOTAL PD	LENGTH	WIDTH	HEIGHT				
RTU-1FL	2	3,600 CFM	3.12 in-wg	1.25 in-wg	2381	2.6	3	13,200 CFM	ALUMINUM	2"	634 FPM	6	20"W x 25"h	0.14 in-wg	0.57 in-wg	336	106	91	10800	INNOVENT	NDHU-SS-PL-12000-AC-HG-IF-460	

AIR HANDLING SCHEDULE

NOTES:
1. AIR HANDLER SHALL BE PAINTED 24 GAUGE G60 GALVALIZED STEEL OUTER PANEL WITH R-13 INJECTED FOAM INSULATION AND 24 GAUGE GALVANIZED STEEL LINER.
2. BASE SHALL BE CURB READY WITH MANUFACTURER FURNISHED MIN, 14 IN. HIGH INSULATED ROOF CURB.
3. FAN ARRAYS SHALL BE MAUNUFACTURER-FURNISEHD WITH 1 VFD PER MOTOR COMPLETE WITH NEMA 3R ENCLOSURE WITH WINDOW KIT.
4. MOTORS SHALL BE PREMIUM EFFICIENCY WITH ODP ENCLOSURES.
5. FAN ARRAYS SHALL BE INTERNALLY ISOLATED WITH MINIMUM 2" DEFLECTION SPRING ISOLATORS.
6. CONFIGURATION: RTU-2FL SIDE BY SIDE WITH OPPOSED AIR FLOWS, RTU-3FL INLINE REVERSED HORIZONTAL.
7. RTU-2 & RTU-3 ENERGY RECOVERY WHEEL, VFD @ 115V-1 PH.
8. RTU-2 & RTU-3 CONTROLLER/STARTER SHALL BE VFD WITH INTEGRAL FUSED DISCONNECT IN A NEMA 3R ENCLOSURE WITH WINDOW KIT.

| TAG NAME | AREA SERVED | SUPPLY FAN ARRAY | | | | | | | | | RETURN/EXHAUST FAN ARRAY | | | | | | | HEATING COIL -WATER (2-REQUIRED) | | | | | | | | | | PRE-HEATING COIL (2-REQUIRED) | | | | | | | | | | | | | | | | | | |

FAN COIL UNIT SCHEDULE - HYDRONIC (LEVEL-1)

1. FLOOR MOUNTED VERTICAL FAN COIL UNITS SHALL BE COMPLETE WITH SLOPED TOP, LEVELING LEGS, FACTORY-MOUNTED DISCONNECT SWITCH, 4" EXTENSION END POCKETS (BOTH SIDES), REMOVABLE 1" THROWAWAY MERV 8 FILTER, AND CONDENSATE OVERFLOW SWITCH.
2. HORIZONTAL CEILING EXPOSED FAN COIL UNITS SHALL BE COMPLETE WITH BOTTOM RETURN GRILLE, DISCONNECT SWITCH, AND 1" THICK THROWAWAY MERV 8 FILTERS.
3. FAN COIL UNITS SHALL BE FURNISHED WITH FACTORY-INSTALLED VALVE/PIPING PACKAGES FOR THE PRIMARY AND SECONDARY COILS. THE VALVE PACKAGE SHALL BE PROVIDED WITH INTERCONNECTING PIPING WITH SHUT-OFF BALL VALVES, 2-WAY MODULATING CONTROL VALVE, AUTOMATIC FLOW CONTROL VALVE, P/T PORTS, AND 20-MESH STRAINER WITH BLOW-OFF VALVE.
4. DAIKIN MICROTECH CONTROLLER BOARDS SHALL BE FACTORY-INSTALLED, COMPLETE WITH ANALOG INPUTS AND BINARY OUTPUTS.
5. PROVIE UNIT WITH A FACTORY PROVIDED CONDENSATE PUMP.

TAG NAME	BLDG. AREA	Level	AREA SERVED	MANUFACTURER	MODEL SIZE	MODEL	CABINET TYPE	MAX. DIMENSIONS			CFM	EXT. S.P. IN W.C.	EAT		LAT		COOLING COIL						COOLING COIL ROWS	COOLING COIL FPI	HEATING COIL		HEATING COIL EAT, DB	HEATING COIL LAT, DB	HEATING COIL			HW COIL ROWS	ELECTRICAL DATA						OPERATING WEIGHT, LBS.	NOTES
								LENGTH, IN.	WIDTH, IN.	HEIGHT, IN.			DB °F	WB °F	LAT DB	LAT WB	TOTAL BTUH	SENSIBLE BTUH	GPM	EWT °F	LWT °F	W.P.D. FT. HD			TOTAL BTUH	GPM			EWT °F	LWT °F	W.P.D. FT. HD		HP	MOTOR	VOLTAGE	PHASES	MCA, AMPS	MROPD, AMPS		
FCU-12FL	AREA-A	LEVEL 01	CAFETERIA	DAIKIN APPLIED	12	FCVS112	FLOOR MOUNT, SLOPED TOP	92.5	10.0	27.6	0	0.0	76.00	63.4	57.3	55.2	30931	25737	3.9	43.0	59.0	4.36	4	12	26577	1.7	70 °F	102.7 °F	140.0	109.6	15.48	2	0.25	CONSTANT CFM ECM	115	1	9.2 A	15.0 A	204	COMPLETE WITH 2-1/4 HP MOTOR, REFER TO NOTES 1, 3 AND 4 ABOVE.
FCU-212FL	AREA-A	LEVEL 01	CAFETERIA/SERVING	DAIKIN APPLIED	12	FCHC212	CEILING MOUNT, EXPOSED CABINET	25.0	91.6	14.0	1046	0.0	76.00	63.2	57.2	55.7	23289	21519	2.9	43.0	59.0	2.36	3	12	20248	1.4	70 °F	87.7 °F	140.0	110.0	9.86	1	0.25	CONSTANT CFM ECM	115	1	8.5 A	15.0 A	204	COMPLETE WITH 2-1/4 HP MOTORS, REFER TO NOTES 2, 3, AND 4 ABOVE.
FCU-10FL	AREA-A	LEVEL 01	CLASSROOM-145	DAIKIN APPLIED	10	FCVS110	FLOOR MOUNT, SLOPED TOP	81.5	10.0	27.6	724	0.0	76.00	63.4	57.7	56.0	15982	14487	2.0	43.0	59.0	1.05	4	12	27314	1.8	70 °F	104.5 °F	140.0	110.0	4.45	2	0.25	CONSTANT CFM ECM	115	1	8.5 A	11.0 A	177	REFER TO NOTES 1, 3 AND 4 ABOVE.
FCU-10FL	AREA-A	LEVEL 01	CLASSROOM-146	DAIKIN APPLIED	10	FCVS110	FLOOR MOUNT, SLOPED TOP	81.5	10.0	27.6	724	0.0	76.00	63.4	57.7	56.0	15982	14487	2.0	43.0	59.0	1.05	4	12	27314	1.8	70 °F	104.5 °F	140.0	110.0	4.45	2	0.25	CONSTANT CFM ECM	115	1	8.5 A	11.0 A	177	REFER TO NOTES 1, 3 AND 4 ABOVE.
FCU-12FL	AREA-A	LEVEL 01	FACULTY LOUNGE 143.5	DAIKIN APPLIED	12	FCVS112	FLOOR MOUNT, SLOPED TOP	92.5	10.0	27.6	1017	0.0	76.00	63.4	56.9	54.9	25739	21209	3.2	43.0	59.0	3.03	4	12	36329	2.4	70 °F	102.7 °F	140.0	110.0	8.45	2	0.25	CONSTANT CFM ECM	115	1	9.2 A	15.0 A	204	COMPLETE WITH 2-1/4 HP MOTOR, REFER TO NOTES 1, 3 AND 4 ABOVE.
FCU-03FL	AREA-A	LEVEL 01	OFFICE 145.2	DAIKIN APPLIED	03	FCVS103	FLOOR MOUNT, SLOPED TOP	48.5	10.0	27.6	295	0.0	76.00	63.4	66.3	60.1	3117	3117	0.4	43.0	59.0	0.07	2	12	6568	0.4	70 °F	90.4 °F	140.0	110.0	0.61	1	0.125	CONSTANT CFM ECM	115	1	3.2 A	5.8 A	95	REFER TO NOTES 1, 3, 4 AND 5 ABOVE.
FCU-03FL	AREA-A	LEVEL 01	OFFICE 162.6	DAIKIN APPLIED	03	FCVS103	FLOOR MOUNT, SLOPED TOP	48.5	10.0	27.6	295	0.0	76.00	63.4	66.3	60.1	3117	3117	0.4	43.0	59.0	0.07	2	12	6568	0.4	70 °F	90.4 °F	140.0	110.0	0.61	1	0.125	CONSTANT CFM ECM	115	1	3.2 A	5.8 A	95	REFER TO NOTES 1, 3, 4 AND 5 ABOVE.
FCU-212FL	AREA-A	LEVEL 01	RECEIVING	DAIKIN APPLIED	12	FCHC212	CEILING MOUNT, EXPOSED CABINET	25.0	91.6	14.0	0	0.0	76.00	63.2	57.2	55.7	23289	21519	2.9	43.0	59.0	2.36	3	12	20248	1.4	70 °F	87.7 °F	140.0	110.0	9.86	1	0.25	CONSTANT CFM ECM	115	1	8.5 A	15.0 A	204	COMPLETE WITH 2-1/4 HP MOTORS, REFER TO NOTES 2, 3, AND 4 ABOVE.
FCU-10FL	AREA-B	LEVEL 01	CLASSROOM-149.1	DAIKIN APPLIED	10	FCVS110	FLOOR MOUNT, SLOPED TOP	81.5	10.0	27.6	724	0.0	76.00	63.4	57.7	56.0	15982	14487	2.0	43.0	59.0	1.05	4	12	27314	1.8	70 °F	104.5 °F	140.0	110.0	4.45	2	0.25	CONSTANT CFM ECM	115	1	8.5 A	11.0 A	177	REFER TO NOTES 1, 3 AND 4 ABOVE.
FCU-08FL	AREA-B	LEVEL 01	CONFERENCE RM. 149A	DAIKIN APPLIED	08	FCVS108	FLOOR MOUNT, SLOPED TOP	62.5	10.0	27.6	855	0.0	80.00	67.0	57.2	56.0	29575	21303	3.7	43.0	59.0	7.16	4	12	30225	2.9	70 °F	102.3 °F	140.0	119.2	8.29	2	0.25	CONSTANT CFM ECM	115	1	6.0 A	15.0 A	152	COMPLETE WITH 1- 1/8 HP AND 1- 1/4 HP MOTOR, REFER TO NOTES 1, 3, AND 4 ABOVE.
FCU-03FL	AREA-C	LEVEL 01	BOYS 140.2	DAIKIN APPLIED	03	FCVS103	FLOOR MOUNT, SLOPED TOP	48.5	10.0	27.6	295	0.0	76.00	63.4	66.3	60.1	3117	3117	0.4	43.0	59.0	0.07	2	12	6568	0.4	70 °F	90.4 °F	140.0	110.0	0.61	1	0.125	CONSTANT CFM ECM	115	1	3.2 A	5.8 A	95	REFER TO NOTES 1, 3 AND 4 ABOVE.
FCU-202FL	AREA-C	LEVEL 01	BREAKROOM 1	DAIKIN APPLIED	02	FCHC202	CEILING MOUNT, EXPOSED CABINET	47.6	25	14	245	0.0	76.00	63.4	56.0	55.4	5844	5355	0.7	43.0	59.0	0.25	4	12	8816	0.6	70 °F	102.9 °F	140.0	109.7	0.52	2	0.125	CONSTANT CFM ECM	115	1	2.2 A	15.0 A	83	REFER TO NOTES 2, 3, 4 AND 5 ABOVE.
FCU-10FL	AREA-C	LEVEL 01	CLASSROOM-105	DAIKIN APPLIED	10	FCVS110	FLOOR MOUNT, SLOPED TOP	81.5	10.0	27.6	724	0.0	76.00	63.4	57.7	56.0	15982	14487	2.0	43.0	59.0	1.05	4	12	27314	1.8	70 °F	104.5 °F	140.0	110.0	4.45	2	0.25	CONSTANT CFM ECM	115	1	8.5 A	11.0 A	177	REFER TO NOTES 1, 3 AND 4 ABOVE.
FCU-10FL	AREA-C	LEVEL 01	CLASSROOM-106	DAIKIN APPLIED	10	FCVS110	FLOOR MOUNT, SLOPED TOP	81.5	10.0	27.6	724	0.0	76.00	63.4	57.7	56.0	15982	14487	2.0	43.0	59.0	1.05	4	12	27314	1.8	70 °F	104.5 °F	140.0	110.0	4.45	2	0.25	CONSTANT CFM ECM	115	1	8.5 A	11.0 A	177	REFER TO NOTES 1, 3 AND 4 ABOVE.
FCU-10FL	AREA-C	LEVEL 01	CLASSROOM-107	DAIKIN APPLIED	10	FCVS110	FLOOR MOUNT, SLOPED TOP	81.5	10.0	27.6	724	0.0	76.00	63.4	57.7	56.0	15982	14487	2.0	43.0	59.0	1.05	4	12	27314	1.8	70 °F	104.5 °F	140.0	110.0	4.45	2	0.25	CONSTANT CFM ECM	115	1	8.5 A	11.0 A	177	REFER TO NOTES 1, 3 AND 4 ABOVE.
FCU-10FL	AREA-C	LEVEL 01	CLASSROOM-108	DAIKIN APPLIED	10	FCVS110	FLOOR MOUNT, SLOPED TOP	81.5	10.0	27.6	724	0.0	76.00	63.4	57.7	56.0	15982	14487	2.0	43.0	59.0	1.05	4	12	27314	1.8	70 °F	104.5 °F	140.0	110.0	4.45	2	0.25	CONSTANT CFM ECM	115	1	8.5 A	11.0 A	177	REFER TO NOTES 1, 3 AND 4 ABOVE.
FCU-10FL	AREA-C	LEVEL 01	CLASSROOM-109	DAIKIN APPLIED	10	FCVS110	FLOOR MOUNT, SLOPED TOP	81.5	10.0	27.6	724	0.0	76.00	63.4	57.7	56.0	15982	14487	2.0	43.0	59.0	1.05	4	12	27314	1.8	70 °F	104.5 °F	140.0	110.0	4.45	2	0.25	CONSTANT CFM ECM	115	1	8.5 A	11.0 A	177	REFER TO NOTES 1, 3 AND 4 ABOVE.
FCU-10FL	AREA-C	LEVEL 01	CLASSROOM-132	DAIKIN APPLIED	10	FCVS110	FLOOR MOUNT, SLOPED TOP	81.5	10.0	27.6	724	0.0	76.00	63.4	57.7	56.0	15982	14487	2.0	43.0	59.0	1.05	4	12	27314	1.8	70 °F	104.5 °F	140.0	110.0	4.45	2	0.25	CONSTANT CFM ECM	115	1	8.5 A	11.0 A	177	REFER TO NOTES 1, 3 AND 4 ABOVE.
FCU-10FL	AREA-C	LEVEL 01	CLASSROOM-133	DAIKIN APPLIED	10	FCVS110	FLOOR MOUNT, SLOPED TOP	81.5	10.0	27.6	724	0.0	76.00	63.4	57.7	56.0	15982	14487	2.0	43.0	59.0	1.05	4	12	27314	1.8	70 °F	104.5 °F	140.0	110.0	4.45	2	0.25	CONSTANT CFM ECM	115	1	8.5 A	11.0 A	177	REFER TO NOTES 1, 3 AND 4 ABOVE.
FCU-10FL	AREA-C	LEVEL 01	CLASSROOM-134	DAIKIN APPLIED	10	FCVS110	FLOOR MOUNT, SLOPED TOP	81.5	10.0	27.6	724	0.0	76.00	63.4	57.7	56.0	15982	14487	2.0	43.0	59.0	1.05	4	12	27314	1.8	70 °F	104.5 °F	140.0	110.0	4.45	2	0.25	CONSTANT CFM ECM	115	1	8.5 A	11.0 A	177	REFER TO NOTES 1, 3 AND 4 ABOVE.
FCU-10FL	AREA-C	LEVEL 01	CLASSROOM-135	DAIKIN APPLIED	10	FCVS110	FLOOR MOUNT, SLOPED TOP	81.5	10.0	27.6	724	0.0	76.00	63.4	57.7	56.0	15982	14487	2.0	43.0	59.0	1.05	4	12	27314	1.8	70 °F	104.5 °F	140.0	110.0	4.45	2	0.25	CONSTANT CFM ECM	115	1	8.5 A	11.0 A	177	REFER TO NOTES 1, 3 AND 4 ABOVE.
FCU-10FL	AREA-C	LEVEL 01	CLASSROOM-136	DAIKIN APPLIED	10	FCVS110	FLOOR MOUNT, SLOPED TOP	81.5	10.0	27.6	724	0.0	76.00	63.4	57.7	56.0	15982	14487	2.0	43.0	59.0	1.05	4	12	27314	1.8	70 °F	104.5 °F	140.0	110.0	4.45	2	0.25	CONSTANT CFM ECM	115	1	8.5 A	11.0 A	177	REFER TO NOTES 1, 3 AND 4 ABOVE.
FCU-10FL	AREA-C	LEVEL 01	CLASSROOM-137	DAIKIN APPLIED	10	FCVS110	FLOOR MOUNT, SLOPED TOP	81.5	10.0	27.6	724	0.0	76.00	63.4	57.7	56.0	15982	14487	2.0	43.0	59.0	1.05	4	12	27314	1.8	70 °F	104.5 °F	140.0	110.0	4.45	2	0.25	CONSTANT CFM ECM	115	1	8.5 A	11.0 A	177	REFER TO NOTES 1, 3 AND 4 ABOVE.
FCU-204FL	AREA-C	LEVEL 01	COUNSELORS 104	DAIKIN APPLIED	04	FCHC204	CEILING MOUNT, EXPOSED CABINET	53.1	25.0	14	391	0.0	76.00	63.4	57.5	56.5	8076	7899	1.0	43.0	59.0	0.51	4	12	15289	1.0	70 °F	105.8 °F	140.0	109.9	1.61	2	0.125	CONSTANT CFM ECM	115	1	2.9 A	15.0 A	108	REFER TO NOTES 2, 3, AND 4 ABOVE.
FCU-03FL	AREA-C	LEVEL 01	GIRLS 138.2	DAIKIN APPLIED	03	FCVS103	FLOOR MOUNT, SLOPED TOP	48.5	10.0	27.6	295	0.0	76.00	63.4	66.3	60.1	3117	3117	0.4	43.0	59.0	0.07	2	12	6568	0.4	70 °F	90.4 °F	140.0	110.0	0.61	1	0.125	CONSTANT CFM ECM	115	1	3.2 A	5.8 A	95	REFER TO NOTES 1, 3 AND 4 ABOVE.
FCU-06FL	AREA-C	LEVEL 01	KITCHEN OFFICE	DAIKIN APPLIED	06	FCVS106	FLOOR MOUNT, SLOPED TOP	57.0	10.0	27.6	557	0.0	80.00	67.0	62.4	60.4	11917	10736	1.5	43.0	59.0	0.46	4	12	14480	2.5	70 °F	93.8 °F	140.0	128.4	18.29	1	0.25	CONSTANT CFM ECM	115	1	5.2 A	15.0 A	131	REFER TO NOTES 1, 3 AND 4 ABOVE.
FCU-202FL	AREA-C	LEVEL 01	NURSE 11	DAIKIN APPLIED	02	FCHC202	CEILING MOUNT, EXPOSED CABINET	47.6	25	14	245	0.0	76.00	63.4	56.0	55.4	5844	5355	0.7	43.0	59.0	0.25	4	12	8816	0.6	70 °F	102.9 °F	140.0	109.7	0.52	2	0.125	CONSTANT CFM ECM	115	1	2.2 A	15.0 A	83	REFER TO NOTES 2, 3, AND 4 ABOVE.
FCU-06FL	AREA-C	LEVEL 01	OFFICE 104.1	DAIKIN APPLIED	06	FCVS106	FLOOR MOUNT, SLOPED TOP	57.0	10.0	27.6	557	0.0	80.00	67.0	62.4	60.4	11917	10736	1.5	43.0	59.0	0.46	4	12	14480	2.5	70 °F	93.8 °F	140.0	128.4	18.29	1	0.25	CONSTANT CFM ECM	115	1	5.2 A	15.0 A	131	REFER TO NOTES 1, 3 AND 4 ABOVE.
FCU-06FL	AREA-C	LEVEL 01	OFFICE 104.2	DAIKIN APPLIED	06	FCVS106	FLOOR MOUNT, SLOPED TOP	57.0	10.0	27.6	557	0.0	80.00	67.0	62.4	60.4	11917	10736	1.5	43.0	59.0	0.46	4	12	14480	2.5	70 °F	93.8 °F	140.0	128.4	18.29	1	0.25	CONSTANT CFM ECM	115	1	5.2 A	15.0 A	131	REFER TO NOTES 1, 3 AND 4 ABOVE.
FCU-06FL	AREA-C	LEVEL 01	OFFICE 104.3	DAIKIN APPLIED	06	FCVS106	FLOOR MOUNT, SLOPED TOP	57.0	10.0	27.6	557	0.0	80.00	67.0	62.4	60.4	11917	10736	1.5	43.0	59.0	0.46	4	12	14480	2.5	70 °F	93.8 °F	140.0	128.4	18.29	1	0.25	CONSTANT CFM ECM	115	1	5.2 A	15.0 A	131	REFER TO NOTES 1, 3 AND 4 ABOVE.
FCU-03FL	AREA-C	LEVEL 01	PREP ROOM 134-A	DAIKIN APPLIED	03	FCVS103	FLOOR MOUNT, SLOPED TOP	48.5	10.0	27.6	295	0.0	76.00	63.4	66.3	60.1	3117	3117	0.4	43.0	59.0	0.07	2	12	6568	0.4	70 °F	90.4 °F	140.0	110.0	0.61	1	0.125	CONSTANT CFM ECM	115	1	3.2 A	5.8 A	95	REFER TO NOTES 1, 3 AND 4 ABOVE.
FCU-03FL	AREA-C	LEVEL 01	PREP ROOM 136-A	DAIKIN APPLIED	03	FCVS103	FLOOR MOUNT, SLOPED TOP	48.5	10.0	27.6	295	0.0	76.00	63.4	66.3	60.1	3117	3117	0.4	43.0	59.0	0.07	2	12	6568	0.4	70 °F	90.4 °F	140.0	110.0	0.61	1	0.125	CONSTANT CFM ECM	115	1	3.2 A	5.8 A	95	REFER TO NOTES 1, 3 AND 4 ABOVE.
FCU-03FL	AREA-C	LEVEL 01	SPEECH 146.1	DAIKIN APPLIED	03	FCVS103	FLOOR MOUNT, SLOPED TOP	48.5	10.0	27.6	295	0.0	76.00	63.4	66.3	60.1	3117	3117	0.4	43.0	59.0	0.07	2	12	6568	0.4	70 °F	90.4 °F	140.0	110.0	0.61	1	0.125	CONSTANT CFM ECM	115	1	3.2 A	5.8 A	95	REFER TO NOTES 1, 3 AND 4 ABOVE.
FCU-202FL	AREA-C	LEVEL 01	WORKROOM 4	DAIKIN APPLIED	02	FCHC202	CEILING MOUNT, EXPOSED CABINET	47.6	25	14	245	0.0	76.00	63.4	56.0	55.4	5844	5355	0.7	43.0	59.0	0.25	4	12	8816	0.6	70 °F	102.9 °F	140.0	109.7	0.52	2	0.125	CONSTANT CFM ECM	115	1	2.2 A	15.0 A	83	REFER TO NOTES 2, 3. 4 AND 5 ABOVE.
FCU-12FL	AREA-D	LEVEL 01	AUD. VESTIBULE	DAIKIN APPLIED	12	FCVS112	FLOOR MOUNT, SLOPED TOP	92.5	10.0	27.6	1017	0.0	76.00	63.4	56.9	54.9	25739	21209	3.2	43.0	59.0	3.03	4	12	36329	2.4	70 °F	102.7 °F	140.0	110.0	8.45	2	0.25	CONSTANT CFM ECM	115	1	9.2 A	12.0 A	202	REFER TO NOTES 1, 3, 4 AND 5 ABOVE.
FCU-12FL	AREA-D	LEVEL 01	BAND / CHOIR 116	DAIKIN APPLIED	12	FCVS112	FLOOR MOUNT, SLOPED TOP	92.5	10.0	27.6	1017	0.0	76.00	63.4	56.9	54.9	25739	21209	3.2	43.0	59.0	3.03	4	12	36329	2.4	70 °F	102.7 °F	140.0	110.0	8.45	2	0.25	CONSTANT CFM ECM	115	1	9.2 A	15.0 A	204	COMPLETE WITH 2-1/4 HP MOTOR, REFER TO NOTES 1, 3 AND 4 ABOVE.
FCU-12FL	AREA-D	LEVEL 01	INSTR. COACH 118	DAIKIN APPLIED	12	FCVS112	FLOOR MOUNT, SLOPED TOP	92.5	10.0	27.6	1017	0.0	76.00	63.4	56.9	54.9	25739	21209	3.2	43.0	59.0	3.03	4	12	36329	2.4	70 °F	102.7 °F	140.0	110.0	8.45	2	0.25	CONSTANT CFM ECM	115	1	9.2 A	15.0 A	204	COMPLETE WITH 2-1/4 HP MOTOR, REFER TO NOTES 1, 3 AND 4 ABOVE.
FCU-03FL	AREA-D	LEVEL 01	OFFICE 113.1	DAIKIN APPLIED	03	FCVS103	FLOOR MOUNT, SLOPED TOP	48.5	10.0	27.6	295	0.0	76.00	63.4	66.3	60.1	3117	3117	0.4	43.0	59.0	0.07	2	12	6568	0.4	70 °F	90.4 °F	140.0	110.0	0.61	1	0.125	CONSTANT CFM ECM	115	1	3.2 A	5.8 A	95	REFER TO NOTES 1, 3, 4 AND 5 ABOVE.
FCU-03FL	AREA-D	LEVEL 01	OFFICE 113.2	DAIKIN APPLIED	03	FCVS103	FLOOR MOUNT, SLOPED TOP	48.5	10.0	27.6	295	0.0	76.00	63.4	66.3	60.1	3117	3117	0.4	43.0	59.0	0.07	2	12	6568	0.4	70 °F	90.4 °F	140.0	110.0	0.61	1	0.125	CONSTANT CFM ECM	115	1	3.2 A	5.8 A	95	REFER TO NOTES 1, 3, 4 AND 5 ABOVE.
FCU-03FL	AREA-D	LEVEL 01	PRAC. 112.1	DAIKIN APPLIED	03	FCVS103	FLOOR MOUNT, SLOPED TOP	48.5	10.0	27.6	295	0.0	76.00	63.4	66.3	60.1	3117	3117	0.4	43.0	59.0	0.07	2	12	6568	0.4	70 °F	90.4 °F	140.0	110.0	0.61	1	0.125	CONSTANT CFM ECM	115	1	3.2 A	5.8 A	95	REFER TO NOTES 1, 3 , 4 AND 5 ABOVE.
FCU-12FL	AREA-D	LEVEL 01	READING 117	DAIKIN APPLIED	12	FCVS112	FLOOR MOUNT, SLOPED TOP	92.5	10.0	27.6	1017	0.0	76.00	63.4	56.9	54.9	25739	21209	3.2	43.0	59.0	3.03	4	12	36329	2.4	70 °F	102.7 °F	140.0	110.0	8.45	2	0.25	CONSTANT CFM ECM	115	1	9.2 A	15.0 A	204	COMPLETE WITH 2-1/4 HP MOTOR, REFER TO NOTES 1, 3 AND 4 ABOVE.
FCU-12FL	AREA-D	LEVEL 01	SILE 115	DAIKIN APPLIED	12	FCVS112	FLOOR MOUNT, SLOPED TOP	92.5	10.0	27.6	1017	0.0	76.00	63.4	56.9	54.9	25739	21209	3.2	43.0	59.0	3.03	4	12	36329	2.4	70 °F	102.7 °F	140.0	110.0	8.45	2	0.25	CONSTANT CFM ECM	115	1	9.2 A	15.0 A	204	COMPLETE WITH 2-1/4 HP MOTOR, REFER TO NOTES 1, 3 AND 4 ABOVE.
FCU-03FL	AREA-D	LEVEL 01	SOCIAL WORK 112	DAIKIN APPLIED	03	FCVS103	FLOOR MOUNT, SLOPED TOP	48.5	10.0	27.6	295	0.0	76.00	63.4	66.3	60.1	3117	3117	0.4	43.0	59.0	0.07	2	12	6568	0.4	70 °F	90.4 °F	140.0	110.0	0.61	1	0.125	CONSTANT CFM ECM	115	1	3.2 A	5.8 A	95	REFER TO NOTES 1, 3, 4 AND 5 ABOVE.
FCU-03FL	AREA-D	LEVEL 01	STOR. 114	DAIKIN APPLIED	03	FCVS103	FLOOR MOUNT, SLOPED TOP	48.5	10.0	27.6	295	0.0	76.00	63.4	66.3	60.1	3117	3117	0.4	43.0	59.0	0.07	2	12	6568	0.4	70 °F	90.4 °F	140.0	110.0	0.61	1	0.125	CONSTANT CFM ECM	115	1	3.2 A	5.8 A	95	REFER TO NOTES 1, 3, 4 AND 5 ABOVE.
FCU-12FL	AREA-D	LEVEL 01	THEATRE VESTIBULE	DAIKIN APPLIED	12	FCVS112	FLOOR MOUNT, SLOPED TOP	92.5	10.0	27.6	1017	0.0	76.00	63.4	56.9	54.9	25739	21209	3.2	43.0	59.0	3.03	4	12	36329	2.4	70 °F	102.7 °F	140.0	110.0	8.45	2	0.25	CONSTANT CFM ECM	115	1	9.2 A	12.0 A	202	REFER TO NOTES 1, 3 AND 4 ABOVE.
FCU-212FL	AREA-E	LEVEL 01	ART 130	DAIKIN APPLIED	12	FCHC212	CEILING MOUNT, EXPOSED CABINET	25.0	91.6	14.0	1046	0.0	76.00	63.2	57.2	55.7	23289	21519	2.9	43.0	59.0	2.36	3	12	20248	1.4	70 °F	87.7 °F	140.0	110.0	9.86	1	0.25	CONSTANT CFM ECM	115	1	8.5 A	15.0 A	204	COMPLETE WITH 2-1/4 HP MOTORS, REFER TO NOTES 2, 3, AND 4 ABOVE.
FCU-212FL	AREA-E	LEVEL 01	CLASSROOM 129	DAIKIN APPLIED	12	FCHC212	CEILING MOUNT, EXPOSED CABINET	25.0	91.6	14.0	1046	0.0	76.00	63.2	57.2	55.7	23289	21519	2.9	43.0	59.0	2.36	3	12	20248	1.4	70 °F	87.7 °F	140.0	110.0	9.86	1	0.25	CONSTANT CFM ECM	115	1	8.5 A	15.0 A	204	COMPLETE WITH 2-1/4 HP MOTORS, REFER TO NOTES 2, 3, AND 4 ABOVE.
FCU-212FL	AREA-E	LEVEL 01	CLASSROOM 131	DAIKIN APPLIED	12	FCHC212	CEILING MOUNT, EXPOSED CABINET	25.0	91.6	14.0	1046	0.0	76.00	63.2	57.2	55.7	23289	21519	2.9	43.0	59.0	2.36	3	12	20248	1.4	70 °F	87.7 °F	140.0	110.0	9.86	1	0.25	CONSTANT CFM ECM	115	1	8.5 A	15.0 A	204	COMPLETE WITH 2-1/4 HP MOTORS, REFER TO NOTES 2, 3, AND 4 ABOVE.
FCU-212FL	AREA-F	LEVEL 01	CLASSROOM 127	DAIKIN APPLIED	12	FCHC212	CEILING MOUNT, EXPOSED CABINET	25.0	91.6	14.0	1046	0.0	76.00	63.2	57.2	55.7	23289	21519	2.9	43.0	59.0	2.36	3	12	20248	1.4	70 °F	87.7 °F	140.0	110.0	9.86	1	0.25	CONSTANT CFM ECM	115	1	8.5 A	15.0 A	204	COMPLETE WITH 2-1/4 HP MOTORS, REFER TO NOTES 2, 3, AND 4 ABOVE.
FCU-212FL	AREA-F	LEVEL 01	CLASSROOM 128	DAIKIN APPLIED	12	FCHC212	CEILING MOUNT, EXPOSED CABINET	25.0	91.6	14.0	1046	0.0	76.00	63.2	57.2	55.7	23289	21519	2.9	43.0	59.0	2.36	3	12	20248	1.4	70 °F	87.7 °F	140.0	110.0	9.86	1	0.25	CONSTANT CFM ECM	115	1	8.5 A	15.0 A	204	COMPLETE WITH 2-1/4 HP MOTORS, REFER TO NOTES 2, 3, AND 4 ABOVE.
FCU-08FL	AREA-F	LEVEL 01	OFFICE 122	DAIKIN APPLIED	08	FCVS108	FLOOR MOUNT, SLOPED TOP	62.5	10.0	27.6	855	0.0	80.00	67.0	57.2	56.0	29575	21303	3.7	43.0	59.0	7.16	4	12	30225	2.9	70 °F	102.3 °F	140.0	119.2	8.29	2	0.25	CONSTANT CFM ECM	115	1	6.0 A	15.0 A	152	COMPLETE WITH 1- 1/8 HP AND 1- 1/4 HP MOTOR, REFER TO NOTES 1, 3, AND 4 ABOVE.
FCU-06FL	AREA-F	LEVEL 01	OFFICE 123.2	DAIKIN APPLIED	06	FCVS106	FLOOR MOUNT, SLOPED TOP	57.0	10.0	27.6	557	0.0	80.00	67.0	62.4	60.4	11917	10736	1.5	43.0	59.0	0.46	4	12	14480	2.5	70 °F	93.8 °F	140.0	128.4	18.29	1	0.25	CONSTANT CFM ECM	115	1	5.2 A	15.0 A	131	REFER TO NOTES 1, 3 AND 4 ABOVE.
FCU-06FL	AREA-F	LEVEL 01	OFFICE 124.3	DAIKIN APPLIED	06	FCVS106	FLOOR MOUNT, SLOPED TOP	57.0	10.0	27.6	557	0.0	80.00	67.0	62.4	60.4	11917	10736	1.5	43.0	59.0	0.46	4	12	14480	2.5	70 °F	93.8 °F	140.0	128.4	18.29	1	0.25	CONSTANT CFM ECM	115	1	5.2 A	15.0 A	131	REFER TO NOTES 1, 3 AND 4 ABOVE.
FCU-212FL	AREA-F	LEVEL 01	SPEC ED 125	DAIKIN APPLIED	12	FCHC212	CEILING MOUNT, EXPOSED CABINET	25.0	91.6	14.0	1046	0.0	76.00	63.2	57.2	55.7	23289	21519	2.9	43.0	59.0	2.36	3	12	20248	1.4	70 °F	87.7 °F	140.0	110.0	9.86	1	0.25	CONSTANT CFM ECM	115	1	8.5 A	15.0 A	204	COMPLETE WITH 2-1/4 HP MOTORS, REFER TO NOTES 2, 3, AND 4 ABOVE.
FCU-212FL	AREA-F	LEVEL 01	SPEC ED 126	DAIKIN APPLIED	12	FCHC212	CEILING MOUNT, EXPOSED CABINET	25.0	91.6	14.0	1046	0.0	76.00	63.2	57.2	55.7	23289	21519	2.9	43.0	59.0	2.36	3	12	20248	1.4	70 °F	87.7 °F	140.0	110.0	9.86	1	0.25	CONSTANT CFM ECM	115	1	8.5 A	15.0 A	204	COMPLETE WITH 2-1/4 HP MOTORS, REFER TO NOTES 2, 3, AND 4 ABOVE.

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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	21002885.03
Drawn	J.D.C.
Checked	M.L.
Approved	B.P.

SHEET TITLE

MECHANICAL SCHEDULES

SCALE

Scale:

SHEET NUMBER

M602

FAN COIL UNIT SCHEDULE - HYDRONIC (LEVEL-2)

1. FLOOR MOUNTED VERTICAL FAN COIL UNITS SHALL BE COMPLETE WITH SLOPED TOP, LEVELING LEGS, FACTORY-MOUNTED DISCONNECT SWITCH, 4" EXTENSION END POCKETS (BOTH SIDES), REMOVABLE 1" THROWAWAY MERV 8 FILTER, AND CONDENSATE OVERFLOW SWITCH.
2. HORIZONTAL CEILING EXPOSED FAN COIL UNITS SHALL BE COMPLETE WITH BOTTOM RETURN GRILLE, DISCONNECT SWITCH, AND 1" THICK THROWAWAY MERV 8 FILTERS.
3. FAN COIL UNITS SHALL BE FURNISHED WITH FACTORY-INSTALLED VALVE/PIPING PACKAGES FOR THE PRIMARY AND SECONDARY COILS. THE VALVE PACKAGE SHALL BE PROVIDED WITH INTERCONNECTING PIPING WITH SHUT-OFF BALL VALVES, 2-WAY MODULATING CONTROL VALVE, AUTOMATIC FLOW CONTROL VALVE, P/T PORTS, AND 20-MESH STRAINER WITH BLOW-OFF VALVE.
4. DAIKIN MICROTECH CONTROLLER BOARDS SHALL BE FACTORY-INSTALLED, COMPLETE WITH ANALOG INPUTS AND BINARY OUTPUTS.
5. PROVIE UNIT WITH A FACTORY PROVIDED CONDENSATE PUMP.

TAG NAME	BLDG. AREA	Level	AREA SERVED	MANUFACTURER	MODEL SIZE	MODEL	CABINET TYPE	MAX. DIMENSIONS LENGTH, IN.	MAX. DIMENSIONS WIDTH, IN.	MAX. DIMENSIONS HEIGHT, IN.	CFM	EXT. S.P. IN W.C.	EAT DB °F	EAT WB °F	LAT LAT DB	LAT LAT WB	COOLING COIL TOTAL BTUH	COOLING COIL SENSIBLE BTUH	COOLING COIL GPM	COOLING COIL EWT °F	COOLING COIL LWT °F	COOLING COIL W.P.D. FT. HD	COOLING COIL ROWS	COOLING COIL FPI	HEATING COIL TOTAL BTUH	HEATING COIL GPM	HEATING COIL EAT, DB	HEATING COIL LAT, DB	HEATING COIL EWT °F	HEATING COIL LWT °F	HEATING COIL W.P.D. FT. HD	HW COIL ROWS	ELECTRICAL DATA HP	ELECTRICAL DATA MOTOR AMPS	ELECTRICAL DATA VOLTAGE	ELECTRICAL DATA PHASES	ELECTRICAL DATA MCA, AMPS	ELECTRICAL DATA MROPD, AMPS	OPERATING WEIGHT, LBS.	NOTES
FCU-12FL	AREA-A	LEVEL 02	CLASSROOM 225	DAIKIN APPLIED	12	FCVS112	FLOOR MOUNT, SLOPED TOP	92.5	10.0	27.6	1017	0.0	76.00	63.4	56.9	54.9	25739	21209	3.2	43.0	59.0	3.03	4	12	36329	2.4	70 °F	102.7 °F	140.0	110.0	8.45	2	0.25	CONSTANT CFM ECM	115	1	9.2 A	15.0 A	204	COMPLETE WITH 2-1/4 HP MOTOR, REFER TO NOTES 1, 3 AND 4 ABOVE.
FCU-12FL	AREA-A	LEVEL 02	CLASSROOM 226	DAIKIN APPLIED	12	FCVS112	FLOOR MOUNT, SLOPED TOP	92.5	10.0	27.6	1017	0.0	76.00	63.4	56.9	54.9	25739	21209	3.2	43.0	59.0	3.03	4	12	36329	2.4	70 °F	102.7 °F	140.0	110.0	8.45	2	0.25	CONSTANT CFM ECM	115	1	9.2 A	15.0 A	204	COMPLETE WITH 2-1/4 HP MOTOR, REFER TO NOTES 1, 3 AND 4 ABOVE.
FCU-03FL	AREA-A	LEVEL 02	GIRLS 224.3	DAIKIN APPLIED	03	FCVS103	FLOOR MOUNT, SLOPED TOP	48.5	10.0	27.6	295	0.0	76.00	63.4	56.9	54.9	3117	3117	0.4	43.0	59.0	0.07	2	12	6568	0.4	70 °F	90.4 °F	140.0	110.0	0.61	1	0.125	CONSTANT CFM ECM	115	1	3.2 A	5.8 A	95	REFER TO NOTES 1, 3 AND 4 ABOVE.
FCU-10FL	AREA-A	LEVEL 02	SPEC. ED. 228	DAIKIN APPLIED	10	FCVS110	FLOOR MOUNT, SLOPED TOP	81.5	10.0	27.6	724	0.0	76.00	63.4	57.7	56.0	15982	14487	2.0	43.0	59.0	1.05	4	12	27314	1.8	70 °F	104.5 °F	140.0	110.0	4.45	2	0.25	CONSTANT CFM ECM	115	1	8.5 A	11.0 A	177	REFER TO NOTES 1, 3 AND 4 ABOVE.
FCU-12FL	AREA-B	LEVEL 02	CLASSROOM 201	DAIKIN APPLIED	12	FCVS112	FLOOR MOUNT, SLOPED TOP	92.5	10.0	27.6	1017	0.0	76.00	63.4	56.9	54.9	25739	21209	3.2	43.0	59.0	3.03	4	12	36329	2.4	70 °F	102.7 °F	140.0	110.0	8.45	2	0.25	CONSTANT CFM ECM	115	1	9.2 A	15.0 A	204	COMPLETE WITH 2-1/4 HP MOTOR, REFER TO NOTES 1, 3 AND 4 ABOVE.
FCU-12FL	AREA-B	LEVEL 02	CLASSROOM 202	DAIKIN APPLIED	12	FCVS112	FLOOR MOUNT, SLOPED TOP	92.5	10.0	27.6	1017	0.0	76.00	63.4	56.9	54.9	25739	21209	3.2	43.0	59.0	3.03	4	12	36329	2.4	70 °F	102.7 °F	140.0	110.0	8.45	2	0.25	CONSTANT CFM ECM	115	1	9.2 A	15.0 A	204	COMPLETE WITH 2-1/4 HP MOTOR, REFER TO NOTES 1, 3 AND 4 ABOVE.
FCU-12FL	AREA-B	LEVEL 02	SPEC. ED. 203	DAIKIN APPLIED	12	FCVS112	FLOOR MOUNT, SLOPED TOP	92.5	10.0	27.6	1017	0.0	76.00	63.4	56.9	54.9	25739	21209	3.2	43.0	59.0	3.03	4	12	36329	2.4	70 °F	102.7 °F	140.0	110.0	8.45	2	0.25	CONSTANT CFM ECM	115	1	9.2 A	15.0 A	204	COMPLETE WITH 2-1/4 HP MOTOR, REFER TO NOTES 1, 3 AND 4 ABOVE.
FCU-12FL	AREA-C	LEVEL 02	CLASSROOM 204	DAIKIN APPLIED	12	FCVS112	FLOOR MOUNT, SLOPED TOP	92.5	10.0	27.6	1017	0.0	76.00	63.4	56.9	54.9	25739	21209	3.2	43.0	59.0	3.03	4	12	36329	2.4	70 °F	102.7 °F	140.0	110.0	8.45	2	0.25	CONSTANT CFM ECM	115	1	9.2 A	15.0 A	204	COMPLETE WITH 2-1/4 HP MOTOR, REFER TO NOTES 1, 3 AND 4 ABOVE.
FCU-12FL	AREA-C	LEVEL 02	CLASSROOM 205	DAIKIN APPLIED	12	FCVS112	FLOOR MOUNT, SLOPED TOP	92.5	10.0	27.6	1017	0.0	76.00	63.4	56.9	54.9	25739	21209	3.2	43.0	59.0	3.03	4	12	36329	2.4	70 °F	102.7 °F	140.0	110.0	8.45	2	0.25	CONSTANT CFM ECM	115	1	9.2 A	15.0 A	204	COMPLETE WITH 2-1/4 HP MOTOR, REFER TO NOTES 1, 3 AND 4 ABOVE.
FCU-12FL	AREA-C	LEVEL 02	CLASSROOM 206	DAIKIN APPLIED	12	FCVS112	FLOOR MOUNT, SLOPED TOP	92.5	10.0	27.6	1017	0.0	76.00	63.4	56.9	54.9	25739	21209	3.2	43.0	59.0	3.03	4	12	36329	2.4	70 °F	102.7 °F	140.0	110.0	8.45	2	0.25	CONSTANT CFM ECM	115	1	9.2 A	15.0 A	204	COMPLETE WITH 2-1/4 HP MOTOR, REFER TO NOTES 1, 3 AND 4 ABOVE.
FCU-12FL	AREA-C	LEVEL 02	CLASSROOM 207	DAIKIN APPLIED	12	FCVS112	FLOOR MOUNT, SLOPED TOP	92.5	10.0	27.6	1017	0.0	76.00	63.4	56.9	54.9	25739	21209	3.2	43.0	59.0	3.03	4	12	36329	2.4	70 °F	102.7 °F	140.0	110.0	8.45	2	0.25	CONSTANT CFM ECM	115	1	9.2 A	15.0 A	204	COMPLETE WITH 2-1/4 HP MOTOR, REFER TO NOTES 1, 3 AND 4 ABOVE.
FCU-12FL	AREA-C	LEVEL 02	CLASSROOM 208	DAIKIN APPLIED	12	FCVS112	FLOOR MOUNT, SLOPED TOP	92.5	10.0	27.6	1017	0.0	76.00	63.4	56.9	54.9	25739	21209	3.2	43.0	59.0	3.03	4	12	36329	2.4	70 °F	102.7 °F	140.0	110.0	8.45	2	0.25	CONSTANT CFM ECM	115	1	9.2 A	15.0 A	204	COMPLETE WITH 2-1/4 HP MOTOR, REFER TO NOTES 1, 3 AND 4 ABOVE.
FCU-12FL	AREA-C	LEVEL 02	CLASSROOM 209	DAIKIN APPLIED	12	FCVS112	FLOOR MOUNT, SLOPED TOP	92.5	10.0	27.6	1017	0.0	76.00	63.4	56.9	54.9	25739	21209	3.2	43.0	59.0	3.03	4	12	36329	2.4	70 °F	102.7 °F	140.0	110.0	8.45	2	0.25	CONSTANT CFM ECM	115	1	9.2 A	15.0 A	204	COMPLETE WITH 2-1/4 HP MOTOR, REFER TO NOTES 1, 3 AND 4 ABOVE.
FCU-12FL	AREA-C	LEVEL 02	CLASSROOM 218	DAIKIN APPLIED	12	FCVS112	FLOOR MOUNT, SLOPED TOP	92.5	10.0	27.6	1017	0.0	76.00	63.4	56.9	54.9	25739	21209	3.2	43.0	59.0	3.03	4	12	36329	2.4	70 °F	102.7 °F	140.0	110.0	8.45	2	0.25	CONSTANT CFM ECM	115	1	9.2 A	15.0 A	204	COMPLETE WITH 2-1/4 HP MOTOR, REFER TO NOTES 1, 3 AND 4 ABOVE.
FCU-12FL	AREA-C	LEVEL 02	CLASSROOM 219	DAIKIN APPLIED	12	FCVS112	FLOOR MOUNT, SLOPED TOP	92.5	10.0	27.6	1017	0.0	76.00	63.4	56.9	54.9	25739	21209	3.2	43.0	59.0	3.03	4	12	36329	2.4	70 °F	102.7 °F	140.0	110.0	8.45	2	0.25	CONSTANT CFM ECM	115	1	9.2 A	15.0 A	204	COMPLETE WITH 2-1/4 HP MOTOR, REFER TO NOTES 1, 3 AND 4 ABOVE.
FCU-12FL	AREA-C	LEVEL 02	CLASSROOM 220	DAIKIN APPLIED	12	FCVS112	FLOOR MOUNT, SLOPED TOP	92.5	10.0	27.6	1017	0.0	76.00	63.4	56.9	54.9	25739	21209	3.2	43.0	59.0	3.03	4	12	36329	2.4	70 °F	102.7 °F	140.0	110.0	8.45	2	0.25	CONSTANT CFM ECM	115	1	9.2 A	15.0 A	204	COMPLETE WITH 2-1/4 HP MOTOR, REFER TO NOTES 1, 3 AND 4 ABOVE.
FCU-12FL	AREA-C	LEVEL 02	CLASSROOM 222	DAIKIN APPLIED	12	FCVS112	FLOOR MOUNT, SLOPED TOP	92.5	10.0	27.6	1017	0.0	76.00	63.4	56.9	54.9	25739	21209	3.2	43.0	59.0	3.03	4	12	36329	2.4	70 °F	102.7 °F	140.0	110.0	8.45	2	0.25	CONSTANT CFM ECM	115	1	9.2 A	15.0 A	204	COMPLETE WITH 2-1/4 HP MOTOR, REFER TO NOTES 1, 3 AND 4 ABOVE.
FCU-12FL	AREA-C	LEVEL 02	CLASSROOM 223	DAIKIN APPLIED	12	FCVS112	FLOOR MOUNT, SLOPED TOP	92.5	10.0	27.6	1017	0.0	76.00	63.4	56.9	54.9	25739	21209	3.2	43.0	59.0	3.03	4	12	36329	2.4	70 °F	102.7 °F	140.0	110.0	8.45	2	0.25	CONSTANT CFM ECM	115	1	9.2 A	15.0 A	204	COMPLETE WITH 2-1/4 HP MOTOR, REFER TO NOTES 1, 3 AND 4 ABOVE.
FCU-12FL	AREA-C	LEVEL 02	CLASSROOM 224	DAIKIN APPLIED	12	FCVS112	FLOOR MOUNT, SLOPED TOP	92.5	10.0	27.6	1017	0.0	76.00	63.4	56.9	54.9	25739	21209	3.2	43.0	59.0	3.03	4	12	36329	2.4	70 °F	102.7 °F	140.0	110.0	8.45	2	0.25	CONSTANT CFM ECM	115	1	9.2 A	15.0 A	204	COMPLETE WITH 2-1/4 HP MOTOR, REFER TO NOTES 1, 3 AND 4 ABOVE.
FCU-06FL	AREA-C	LEVEL 02	OFFICE 210	DAIKIN APPLIED	06	FCVS106	FLOOR MOUNT, SLOPED TOP	57.0	10.0	27.6	557	0.0	80.00	67.0	62.4	60.4	11917	10736	1.5	43.0	59.0	0.46	4	12	14480	2.5	70 °F	93.8 °F	140.0	128.4	18.29	1	0.25	CONSTANT CFM ECM	115	1	5.2 A	15.0 A	131	REFER TO NOTES 1, 3, 4 AND 5 ABOVE.
FCU-03FL	AREA-C	LEVEL 02	OFFICE 210A	DAIKIN APPLIED	03	FCVS103	FLOOR MOUNT, SLOPED TOP	48.5	10.0	27.6	295	0.0	-76.00	63.4	66.3	60.1	3117	3117	0.4	43.0	59.0	0.07	2	12	6568	0.4	70 °F	90.4 °F	140.0	110.0	0.61	1	0.125	CONSTANT CFM ECM	115	1	3.2 A	5.8 A	95	REFER TO NOTES 1, 3, 4 AND 5 ABOVE.
FCU-03FL	AREA-C	LEVEL 02	OFFICE 210B	DAIKIN APPLIED	03	FCVS103	FLOOR MOUNT, SLOPED TOP	48.5	10.0	27.6	295	0.0	-76.00	63.4	66.3	60.1	3117	3117	0.4	43.0	59.0	0.07	2	12	6568	0.4	70 °F	90.4 °F	140.0	110.0	0.61	1	0.125	CONSTANT CFM ECM	115	1	3.2 A	5.8 A	95	REFER TO NOTES 1, 3, 4 AND 5 ABOVE.
FCU-06FL	AREA-C	LEVEL 02	OFFICE 210D	DAIKIN APPLIED	06	FCVS106	FLOOR MOUNT, SLOPED TOP	57.0	10.0	27.6	557	0.0	80.00	67.0	62.4	60.4	11917	10736	1.5	43.0	59.0	0.46	4	12	14480	2.5	70 °F	93.8 °F	140.0	128.4	18.29	1	0.25	CONSTANT CFM ECM	115	1	5.2 A	15.0 A	131	REFER TO NOTES 1, 3, 4 AND 5 ABOVE.
FCU-03FL	AREA-C	LEVEL 02	STORAGE 221	DAIKIN APPLIED	03	FCVS103	FLOOR MOUNT, SLOPED TOP	48.5	10.0	27.6	295	0.0	-76.00	63.4	66.3	60.1	3117	3117	0.4	43.0	59.0	0.07	2	12	6568	0.4	70 °F	90.4 °F	140.0	110.0	0.61	1	0.125	CONSTANT CFM ECM	115	1	3.2 A	5.8 A	95	REFER TO NOTES 1, 3 AND 4 ABOVE.
FCU-03FL	AREA-D	LEVEL 02	BOYS 224.7	DAIKIN APPLIED	03	FCVS103	FLOOR MOUNT, SLOPED TOP	48.5	10.0	27.6	295	0.0	76.00	63.4	66.3	60.1	3117	3117	0.4	43.0	59.0	0.07	2	12	6568	0.4	70 °F	90.4 °F	140.0	110.0	0.61	1	0.125	CONSTANT CFM ECM	115	1	3.2 A	5.8 A	95	REFER TO NOTES 1, 3 AND 4 ABOVE.
FCU-12FL	AREA-D	LEVEL 02	CLASSROOM 216	DAIKIN APPLIED	12	FCVS112	FLOOR MOUNT, SLOPED TOP	92.5	10.0	27.6	1017	0.0	76.00	63.4	56.9	54.9	25739	21209	3.2	43.0	59.0	3.03	4	12	36329	2.4	70 °F	102.7 °F	140.0	110.0	8.45	2	0.25	CONSTANT CFM ECM	115	1	9.2 A	15.0 A	204	COMPLETE WITH 2-1/4 HP MOTOR, REFER TO NOTES 1, 3 AND 4 ABOVE.
FCU-12FL	AREA-D	LEVEL 02	CLASSROOM 217	DAIKIN APPLIED	12	FCVS112	FLOOR MOUNT, SLOPED TOP	92.5	10.0	27.6	1017	0.0	76.00	63.4	56.9	54.9	25739	21209	3.2	43.0	59.0	3.03	4	12	36329	2.4	70 °F	102.7 °F	140.0	110.0	8.45	2	0.25	CONSTANT CFM ECM	115	1	9.2 A	15.0 A	204	COMPLETE WITH 2-1/4 HP MOTOR, REFER TO NOTES 1, 3 AND 4 ABOVE.
FCU-10FL	AREA-D	LEVEL 02	CLASSROOM-212	DAIKIN APPLIED	10	FCVS110	FLOOR MOUNT, SLOPED TOP	81.5	10.0	27.6	724	0.0	76.00	63.4	57.7	56.0	15982	14487	2.0	43.0	59.0	1.05	4	12	27314	1.8	70 °F	104.5 °F	140.0	110.0	4.45	2	0.25	CONSTANT CFM ECM	115	1	8.5 A	11.0 A	177	REFER TO NOTES 1, 3 AND 4 ABOVE.
FCU-10FL	AREA-D	LEVEL 02	CLASSROOM-213	DAIKIN APPLIED	10	FCVS110	FLOOR MOUNT, SLOPED TOP	81.5	10.0	27.6	724	0.0	76.00	63.4	57.7	56.0	15982	14487	2.0	43.0	59.0	1.05	4	12	27314	1.8	70 °F	104.5 °F	140.0	110.0	4.45	2	0.25	CONSTANT CFM ECM	115	1	8.5 A	11.0 A	177	REFER TO NOTES 1, 3 AND 4 ABOVE.
FCU-03FL	AREA-D	LEVEL 02	FACULTY 215	DAIKIN APPLIED	03	FCVS103	FLOOR MOUNT, SLOPED TOP	48.5	10.0	27.6	295	0.0	76.00	63.4	66.3	60.1	3117	3117	0.4	43.0	59.0	0.07	2	12	6568	0.4	70 °F	90.4 °F	140.0	110.0	0.61	1	0.125	CONSTANT CFM ECM	115	1	3.2 A	5.8 A	95	REFER TO NOTES 1, 3 AND 4 ABOVE.
FCU-10FL	AREA-D	LEVEL 02	SPEC. ED. 211	DAIKIN APPLIED	10	FCVS110	FLOOR MOUNT, SLOPED TOP	81.5	10.0	27.6	724	0.0	76.00	63.4	57.7	56.0	15982	14487	2.0	43.0	59.0	1.05	4	12	27314	1.8	70 °F	104.5 °F	140.0	110.0	4.45	2	0.25	CONSTANT CFM ECM	115	1	8.5 A	11.0 A	177	REFER TO NOTES 1, 3 AND 4 ABOVE.
FCU-CFL	CORRIDOR(S)	LEVEL 02	CORRIDOR(S)	DAIKIN APPLIED	12	FCVS112	FLOOR MOUNT, FLAT TOP	92.5	10.0	27.6	1016	0.4	76.00	67.0	56.9	54.9	25739	21209	3.2	43.0	59.0	8.45	4	12	36.3	2.4	70 °F	102.7 °F	140.0	110.0	8.45	2	0.25	CONSTANT CFM ECM	120	1	9.2 A	12.0 A	204	REFER TO NOTES 1, 3, 4 AND 5 ABOVE.

SPLIT SYSTEM UNIT SCHEDULE

NOTES:
1.CONDENSING UNITS ARE LOCATED ON THE ROOF. CONFIRM REFRIGERANT PIPING LENGTH IN FIELD.
2.ALL REFRIGERANT PIPING AND SPECIALITIES BY MANF. INSTALLED BY H.C.
3.PROVIDE WITH LOW AMBIENT COOLING TO -4 DEGREES.
4.PROVIDE WITH WIND BAFFLES.
5.PROVIDE WITH AIR DIRECTION ADJUSTMENT.
6.PROVIDE WITH POWDER COATED WALLMOUNT BRACKET.
7.E.C. SHALL ROUTE POWER FROM OUTDOOR UNIT POWER SOURCE TO INDOOR UNIT.
8.FOR LOW AMBIENT UNITS PROVIDE BASIN HEATER SHIPPED SEPARATELY. BASIN HEATER POWER BY E.C. INDEPENDENT OF UNIT POWER, M.C. SHALL COORDINATE REQUIREMENTS WITH E.C.

TAG NAME	AREA SERVED	INDOOR UNIT CFM	INDOOR UNIT INDOOR FAN FLA	INDOOR UNIT VOLTAGE	INDOOR UNIT PHASE	INDOOR UNIT COOLING MBH	INDOOR UNIT HEATING MBH	INDOOR UNIT LENGTH	INDOOR UNIT WIDTH	INDOOR UNIT HEIGHT	INDOOR UNIT WEIGHT	OUTDOOR UNIT SEER	OUTDOOR UNIT OUTDOOR FAN FLA	OUTDOOR UNIT VOLTAGE	OUTDOOR UNIT PHASES	OUTDOOR UNIT OUTSIDE UNIT MAX. DIMENSIONS HEIGHT	OUTDOOR UNIT OUTSIDE UNIT MAX. DIMENSIONS LENGTH	OUTDOOR UNIT OUTSIDE UNIT MAX. DIMENSIONS WIDTH	OUTDOOR UNIT WEIGHT	MODEL	ELECTRICAL DISCONNECT BY (NOTE A)	ELECTRICAL DISCONNECT TYPE (NOTE B)	ELECTRICAL CONTROLLER/ STARTER BY (NOTE A)	ELECTRICAL CONTROLLER/ STARTER SCCR	MANUFACTURER	NOTES
SS-120.1	IT CLOSET 120.1 - AREA E	434	0.23	208	1	10.6	0	31"	9"	11"	31	20	0.17	208	1	21-5/8"	26-3/16"	11-3/16"	106	RXL12QMVJU9	NF	E.C	MFR.	5000	Daikin	SEE NOTES ABOVE
SS-123.1	TRANSFORMER 123.1 - AREA E	643	0.57	208	1	21.2	0	42"	10"	13"	31	20	0.47	208	1	28-15/16"	34-1/4"	13-5/8"	106	RXL24QMVJU9	NF	E.C	MFR.	5000	Daikin	SEE NOTES ABOVE

UNIT HEATER SCHEDULE - HOT WATER

NOTES:
1.

TAG NAME	AREA SERVED	CONFIGURATION	CFM	MBH	GPM	EWT °F	LWT °F	W.P.D. FT. HEAD	ELECTRICAL MOTOR HP	ELECTRICAL VOLTAGE	ELECTRICAL PHASES	ELECTRICAL DISCONNECT BY (NOTE A)	ELECTRICAL DISCONNECT TYPE (NOTE B)	ELECTRICAL CONTROLLER/ STARTER BY (NOTE A)	ELECTRICAL CONTROLLER/ STARTER SCCR	CONTROL	MANUFACTURER	MODEL	NOTES
UH-008	FAN ROOM 008	HORIZONTAL	1120	46.5	4.7	140	110	3.0	1/10	120	1	MANF.	F	MANF.	5000	T-STAT	DAIKIN	UHH63	
UH-144.3	ELECTRICAL 144.3	HORIZONTAL	1120	46.5	4.7	140	110	3.0	1/10	120	1	MANF.	F	MANF.	5000	T-STAT	DAIKIN	UHH63	

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
CD-3	24"	ARCHITECTURAL PANEL	1 1/4"	ALUMINUM	WHITE	NO	TITUS	R-OMNI	
EG-1	48x48	35 DEGREE DEFLECTION	1 1/4"		WHITE	NO	TITUS	350R	
RG-3	INLET +2	35 DEGREE DEFLECTION	1 1/4"		WHITE	NO	TITUS	350R	
SG-1	INLET +2	15 DEGREE DEFLECTION	1 1/4"		WHITE	NO	TITUS	S-DL	BLADES VERTICAL UNLESS NOTED OTHERWISE

LOUVER SCHEDULE

NOTES:
1.FINISH TYPES: TYPE 3 - BAKED ENAMEL FINISH ON PRETREATED PRIME PAINT. STANDARD COLOR - SELECTION BY ARCHITECT.

TAG NAME	AREA SERVED	CFM	SIZE (INCHES) WIDTH	SIZE (INCHES) HEIGHT	FREE AREA VELOCITY	S.P. IN. W.C.	FINISH (NOTE 1)	MANUFACTURER	MODEL	NOTES
OAL-1	DOAS-4 OA	17000	120	48	750	0.14	TYPE 3	RUSKIN	ELF375D	

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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	21002885.03
Drawn	J.D.C.
Checked	M.L.
Approved	B.P.

SHEET TITLE
MECHANICAL SCHEDULES

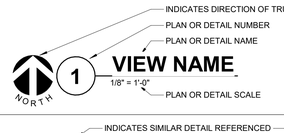
SCALE
Scale:

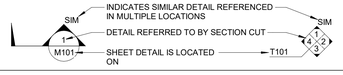
SHEET NUMBER
M603

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.

ASSEMBLIES SHALL BE DESIGNATED AS
ALL WALL HOUR FIRE BARRIER(S), UNLESS NOTED OTHERWISE ON THE PLANS. RATINGS WERE ACQUIRED FROM THE ARCHITECTURAL PLANS DATED 12/28/21.

1/2 HOUR FIRE WALL	
3/4 HOUR FIRE WALL	
1 HOUR FIRE WALL	

CONTRACTOR ABBREVIATION KEY

ABBR:	DESCRIPTION:
A.C.	ASBESTOS ABATEMENT CONTRACTOR
C.C.	CIVIL CONTRACTOR
E.C.	ELECTRICAL CONTRACTOR
G.C.	GENERAL CONTRACTOR
M.C.	MECHANICAL CONTRACTOR
P.C.	PLUMBING CONTRACTOR
T.C.C.	TEMPERATURE CONTROLS CONTRACTOR
V.C.	VENTILATION CONTRACTOR

CONTACT PERSONS:

DESCRIPTION:	PERSON:
PROJECT MANAGER	BRANDON PIERSON
MECHANICAL	MIKE TAUBE
ELECTRICAL	JEREMY VETTING

CONTROL SYMBOL LIST

NOT ALL SYMBOLS MAY APPLY.

SYMBOL:	DESCRIPTION:
	CONTROL VALVE (TWO-WAY)
SOL	SOLENOID VALVE
T	THERMOSTAT
Z	COMBINATION SENSOR: THERMOSTAT, HUMIDITY SENSOR CARBON DIOXIDE SENSOR
RM	REFRIGERANT MONITOR
OP	THERMOSTAT/SENSOR WITH HEAVY DUTY ENCLOSURE
T	TEMPERATURE SENSOR (DUCT MOUNTED)
T	TEMPERATURE SENSOR WITH WELL
T	THERMOMETER WITH WELL (DIAL TYPE)
T	AVERAGING TEMPERATURE SENSOR
T	LOW LIMIT TEMPERATURE SWITCH
T	PROBE TEMPERATURE SENSOR
P	PRESSURE GAUGE (FURNISHED WITH BALL VALVE)
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
	HEATING/ COOLING COIL
	MANUAL MOTOR STARTER W/THERMAL OVERLOAD
	FAN
MTR	MOTOR
R	CONTACTOR
	PUMP
DI	DIGITAL INPUT
DO	DIGITAL OUTPUT
H	HUMIDITY SENSOR (DUCT MOUNTED)
CO_2	CARBON DIOXIDE SENSOR
	FILTER
S	SENSOR
ACT	ACTUATOR
DP	DIFFERENTIAL PRESSURE SWITCH
CS	CURRENT 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
N.O.	NORMALLY OPEN
OA	OUTSIDE AIR
TYP	TYPICAL
RA	RETURN AIR
SA	SUPPLY AIR

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. TEMPERATURE 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 **15952 23 09 00** AND **DIV 16/26** FOR ADDITIONAL DETAILED REQUIREMENTS.
   A. CABLE/WIRE JACKET COLOR: BLUE
   B. CONDUIT BOX COLOR: BLUE
   C. CABLE/WIRE INSTALLATION: IN CONDUIT
5. ALL ACTUATORS SHALL BE OF THE ELECTRICAL TYPE FOR THIS PROJECT.
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 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 EXTEND 24 VOLT POWER FROM CONTROL POWER JUNCTION BOX SHOWN ON FLOOR PLANS TO ALL OUTDOOR AIR BOX CONTROLLER JUNCTION BOXES. TCC SHALL PROVIDE ALL WIRING, SUPPORTS, FUSING SPACE, TOGGLE SWITCHES, AND ALL OTHER ELECTRICAL COMPONENTS REQUIRED FOR COMPLETE INSTALLATION.
15. 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.
16. TCC SHALL PROVIDE THERMOSTATS FOR AUTOMATIC CONTROL OF EQUIPMENT AS REQUIRED BY THESE CONTROL DRAWINGS. THERMOSTAT CONTACT AMP RATING SHALL BE MINIMUM 125% OF THE MAX. CURRENT DRAW FOR THE EQUIPMENT BEING SERVED. WHERE THERMOSTATS CONTROL THE STARTING OF MOTORS (I.E. FANS), THERMOSTATS SHALL BE RATED FOR MOTOR STARTING APPLICATIONS.
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.

MECHANICAL RENOVATION NOTES:

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

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 FIELD VERIFY ACCESSIBILITY TO THE AREA OF THEIR WORK AND SHALL NOTIFY THE GENERAL CONTRACTOR PRIOR TO BIDDING IF OTHER UTILITIES ARE REQUIRED TO BE REMOVED OR RELOCATED TO ALLOW ACCESS TO THEIR AREA OF 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 GENERAL CONTRACTOR OF AFFECTED AREA 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.

MECHANICAL PHASING NOTES:

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

1. REFER TO GENERAL NOTATIONS ON PLAN WITH REGARDS TO PROJECT PHASING.
2. INTENT IS FOR THE STEAM SYSTEM THAT SERVES THE PERIMETER STEAM RADIATION AND ALSO STEAM HEAT FOR THE VENTILAITON UNITS TO REMAIN ACTIVE DURING FIRST WINTER OF CONSTRUCTION IN 2022.
3. REVIEW PROJECT PHASING NOTES TO COORDINATE DEMOLITION WORK, OUTAGES, ETC. WITH AFFECTED ADJACENT AREAS.
4. PROVIDE ANY TEMPORARY DUCTWORK, PIPING, SHUTOFF VALVES, ETC. AS NECESSARY TO KEEP ALL OCCUPIED SPACES OPERATION THROUGHOUT ALL PHASES OF THE PROJECT.
5. PHASE DEMOLITION WORK TO MINIMIZE DOWNTIME.

TEMPERATURE CONTROL SHEET INDEX

MC000	TEMPERATURE CONTROL COVERSHEET
MC201A	BASEMENT - CONTROLS - AREA A
MC201B	BASEMENT - CONTROLS - AREA B & C
MC202A	FIRST FLOOR - CONTROLS - AREA A
MC202B	FIRST FLOOR - CONTROLS - AREA B & C
MC202D	FIRST FLOOR - CONTROLS - AREA D
MC202E	FIRST FLOOR - CONTROLS - AREA E & F
MC203A	SECOND FLOOR - CONTROLS - AREA A
MC203B	SECOND FLOOR - CONTROLS - AREA B & C
MC203D	SECOND FLOOR - CONTROLS - AREA D
MC400	CONTROL DETAILS
MC500	DOAS/RTU CONTROL DIAGRAM
MC501	DOAS/RTU CONTROL DIAGRAM
MC502	PACKAGED DOAS CONTROL DIAGRAM
MC503	MAU CONTROL DIAGRAM
MC504	HEAT EXCHANGER CONTROL DIAGRAM
MC505	TERMINAL EQUIPMENT / MAU CONTROL DIAGRAMS
MC506	KITCHEN EXHAUST MAU-1 CONTROL
GRAND TOTAL: 18	

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SHEET INFORMATION

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Job Number	**21002885.03**
Drawn	**M.T.**
Checked	**M.L.**
Approved	**Approver**

SHEET TITLE

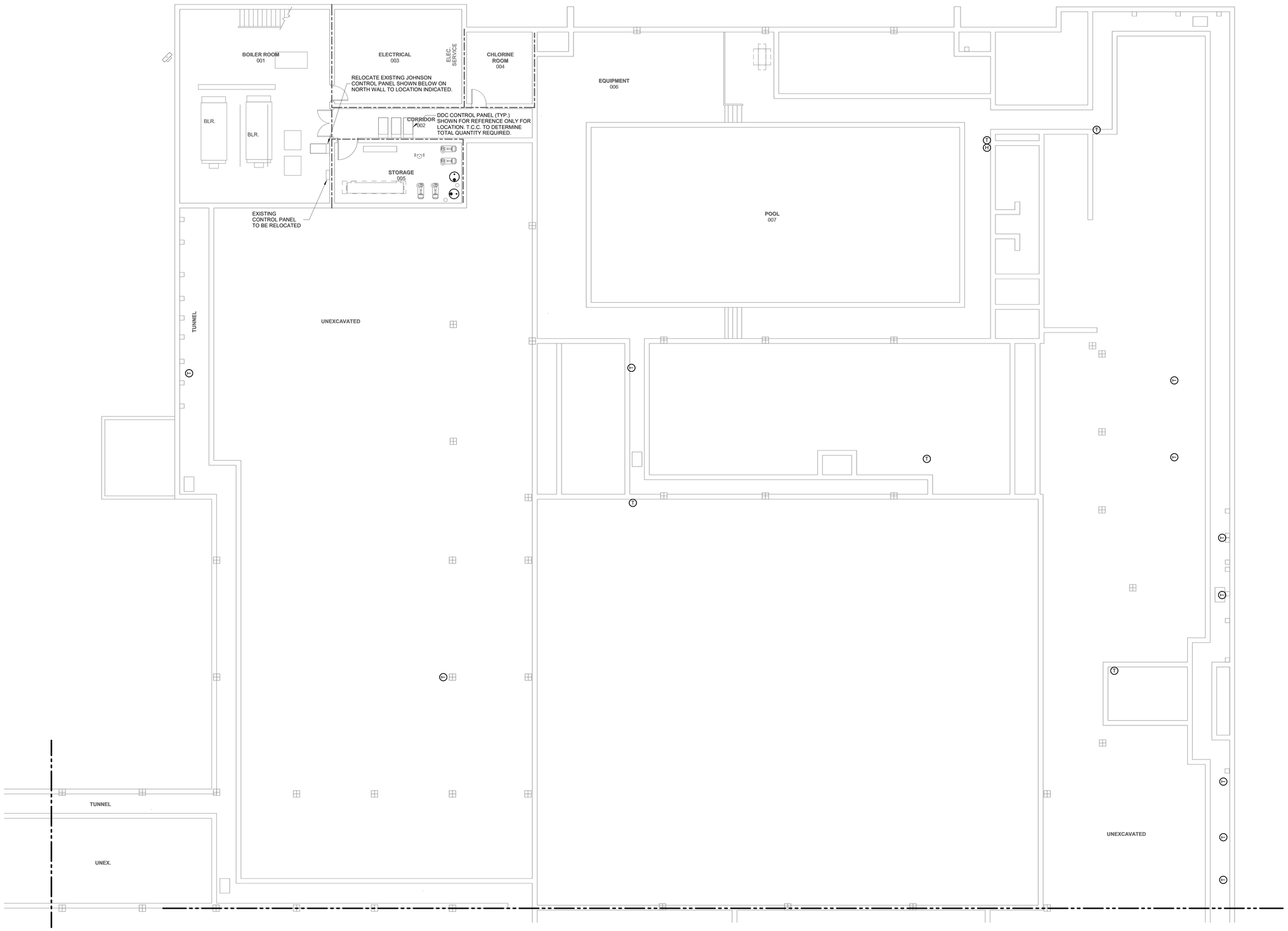
TEMPERATURE CONTROL COVERSHEET

SCALE

Scale: **As indicated**

SHEET NUMBER

MC000



NORTH

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

21002885.03 1/27/2022 5:12:21 PM ESSER HVAC Improvements - Flinn Middle School

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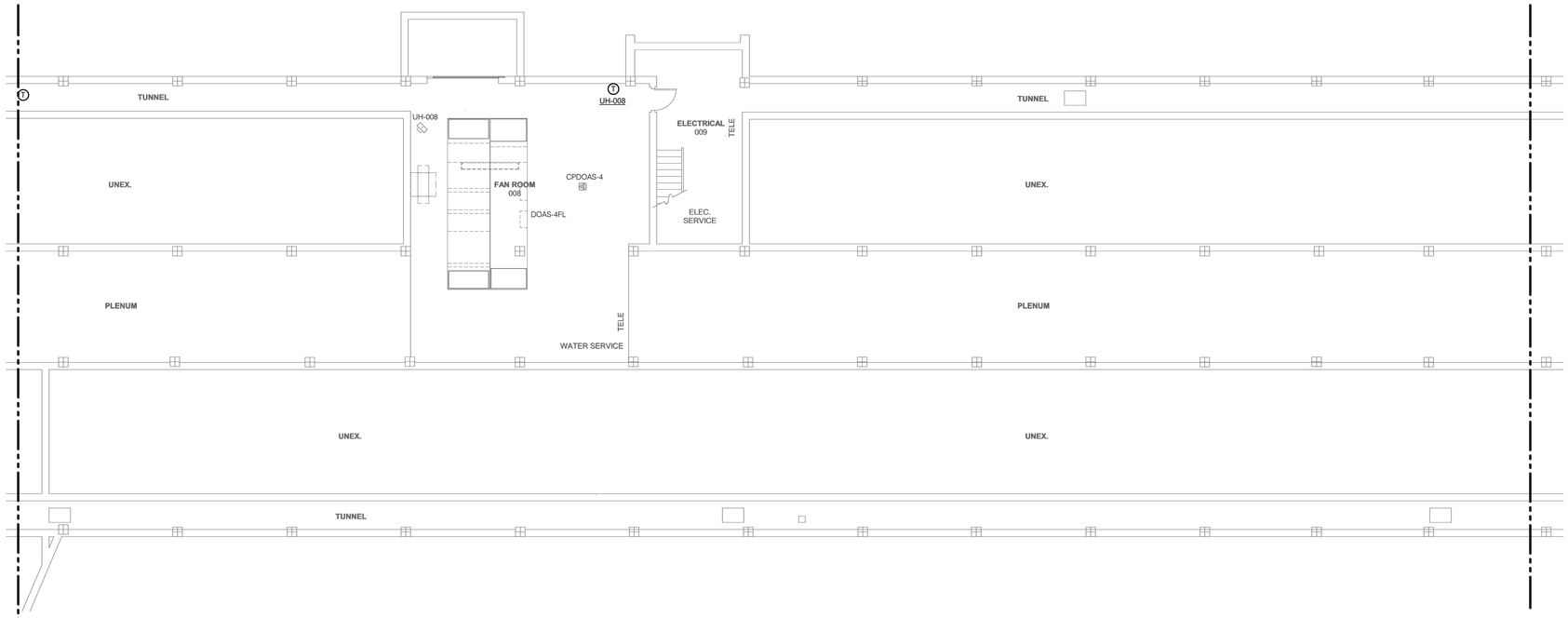
Approved	Approver

SHEET TITLE
BASEMENT - CONTROLS - AREA A

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

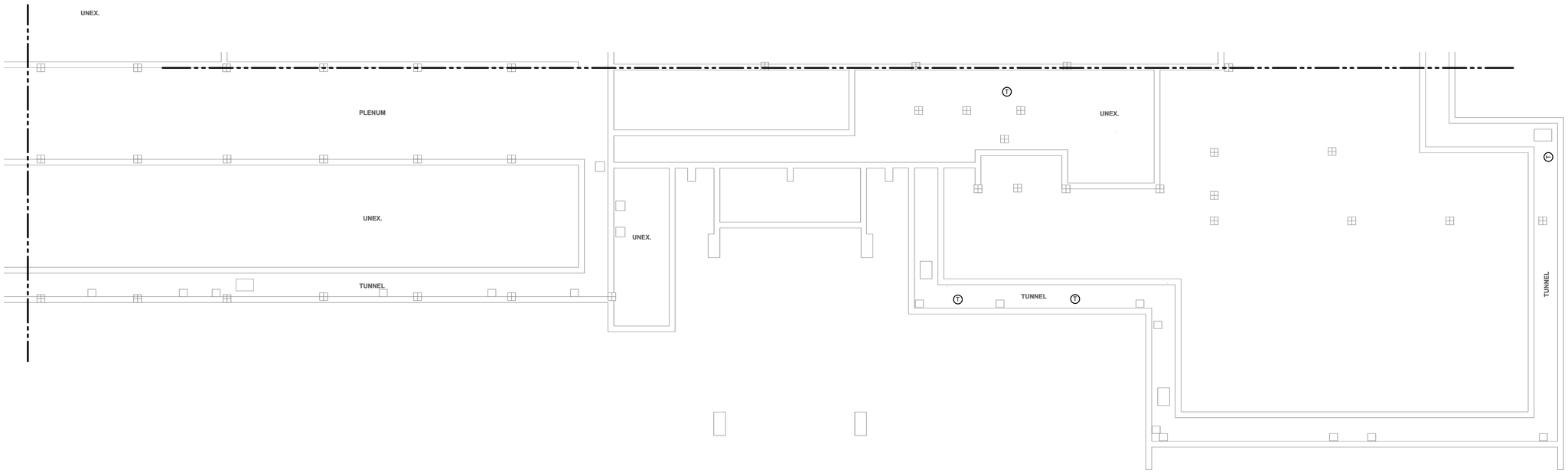
SHEET NUMBER
MC201A



NORTH

1 BASEMENT - CONTROLS - AREA C

1/8" = 1'-0"



NORTH

2 BASEMENT - CONTROLS - AREA B

1/8" = 1'-0"

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Approved	Approver

SHEET TITLE

BASEMENT - CONTROLS - AREA B & C

SCALE

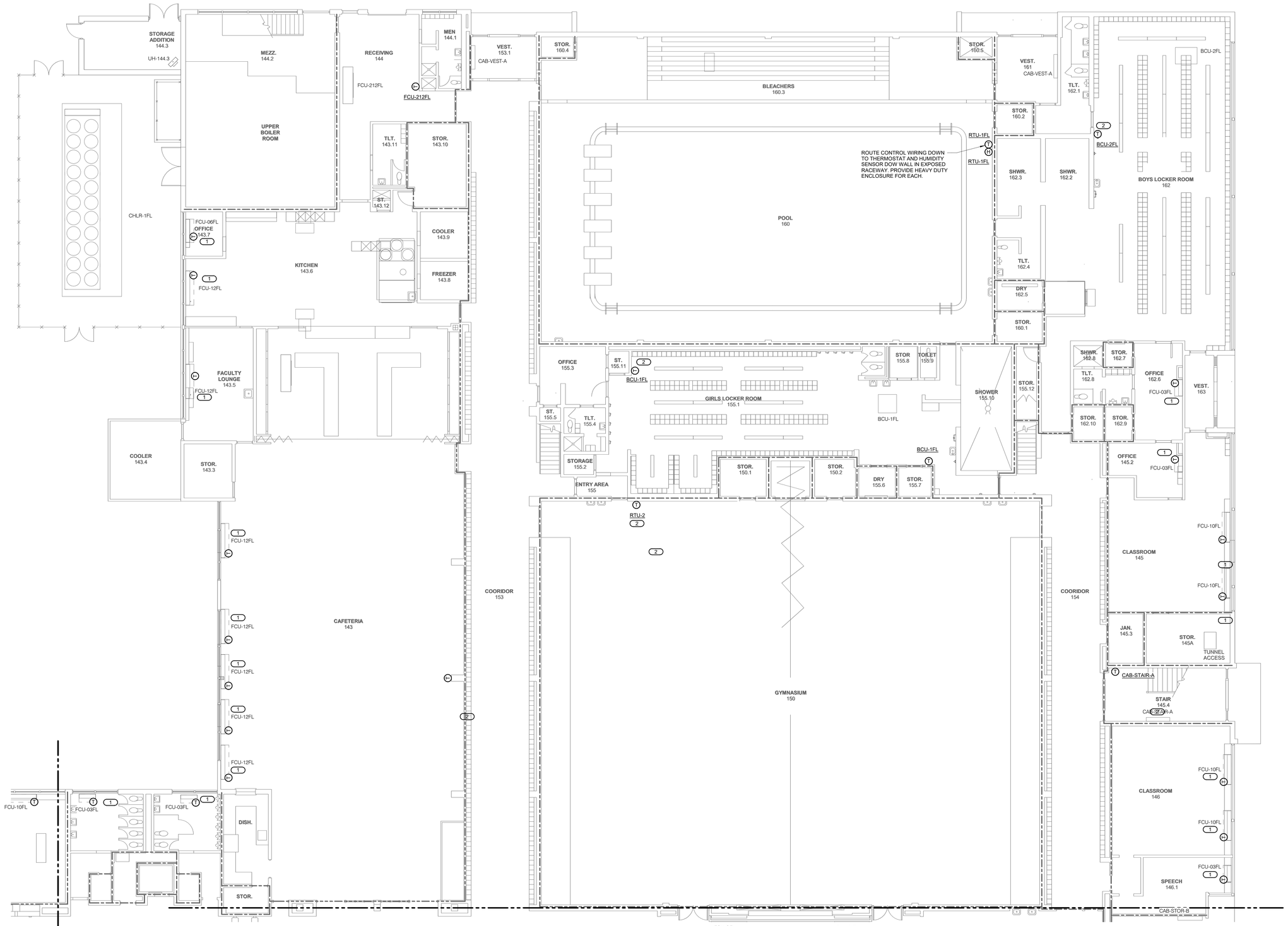
Scale: 1/8" = 1'-0"

SHEET NUMBER

MC201B

KEYNOTES: #

1. TCC SHALL PROVIDE ZONE THERMOSTAT UNIT MOUNTED THAT INTERFACES WITH A FACTORY PROVIDED LOW VOLTAGE INTERFACE BOARD
2. PROVIDE WIRE MOLD FROM DEVICE SERVED TO THERMOSTAT LOCATION.



1 FIRST FLOOR - CONTROLS - AREA A

1/8" = 1'-0"

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Approved	Approver

SHEET TITLE

FIRST FLOOR - CONTROLS - AREA A

SCALE

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

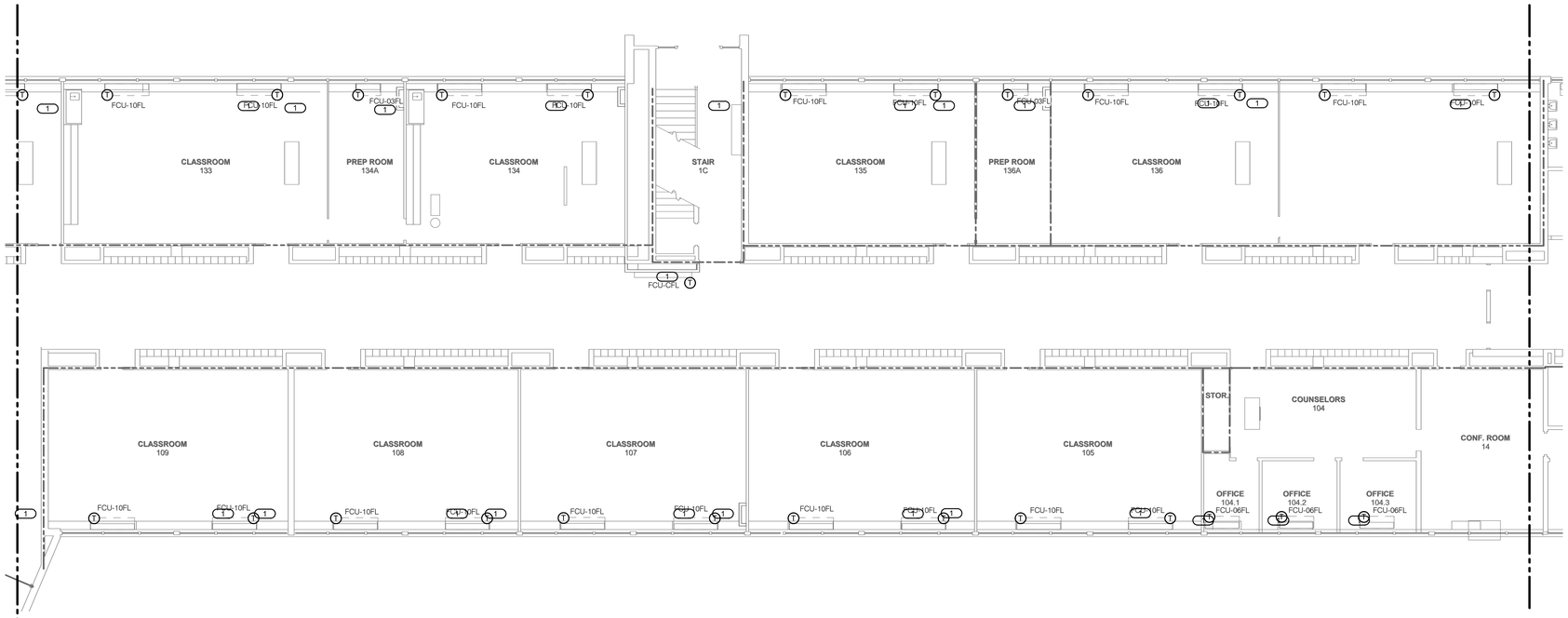
SHEET NUMBER

MC202A

21002885.03 1/27/2022 5:12:26 PM ESSER HVAC Improvements - Flinn Middle School

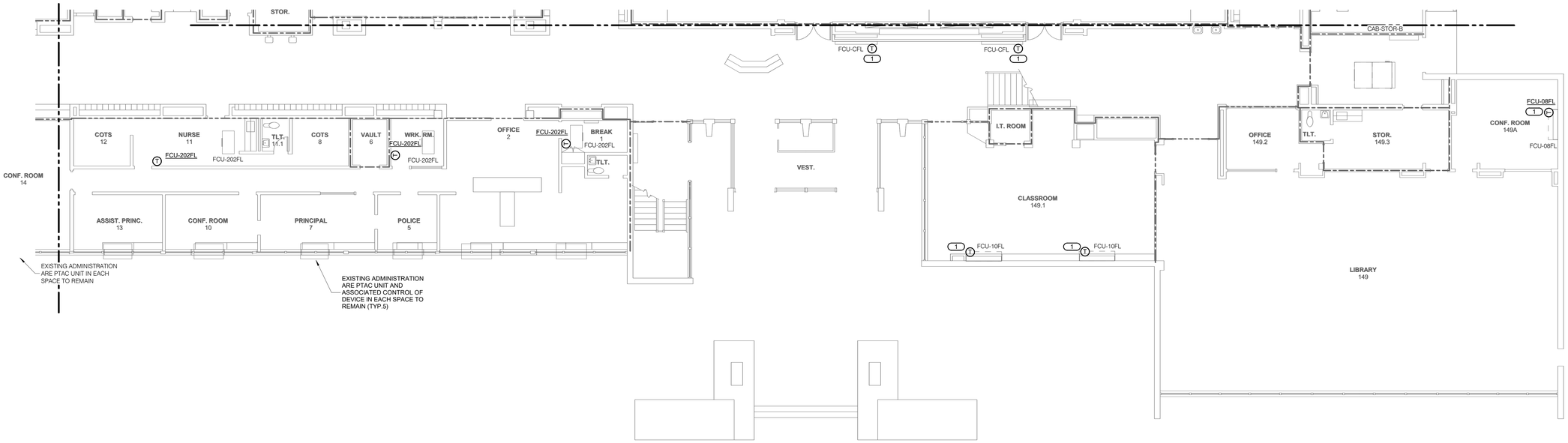
KEYNOTES: (#)

1. TCC SHALL PROVIDE ZONE THERMOSTAT UNIT MOUNTED THAT INTERFACES WITH A FACTORY PROVIDED LOW VOLTAGE INTERFACE BOARD
2. PROVIDE WIRE MOLD FROM DEVICE SERVED TO THERMOSTAT LOCATION.



1 FIRST FLOOR - CONTROLS - AREA C

1/8" = 1'-0"



2 FIRST FLOOR - CONTROLS - AREA B

1/8" = 1'-0"

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Approved	**Approver**

SHEET TITLE

FIRST FLOOR - CONTROLS - AREA B & C

SCALE

Scale: **1/8" = 1'-0"**

SHEET NUMBER

MC202B

KEYNOTES: #

1. TCC SHALL PROVIDE ZONE THERMOSTAT UNIT MOUNTED THAT INTERFACES WITH A FACTORY PROVIDED LOW VOLTAGE INTERFACE BOARD.
2. PROVIDE WIRE MOLD FROM DEVICE SERVED TO THERMOSTAT LOCATION.

NORTH

1 FIRST FLOOR - CONTROLS - AREA D

1/8" = 1'-0"

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SHEET TITLE

FIRST FLOOR - CONTROLS - AREA D

SCALE

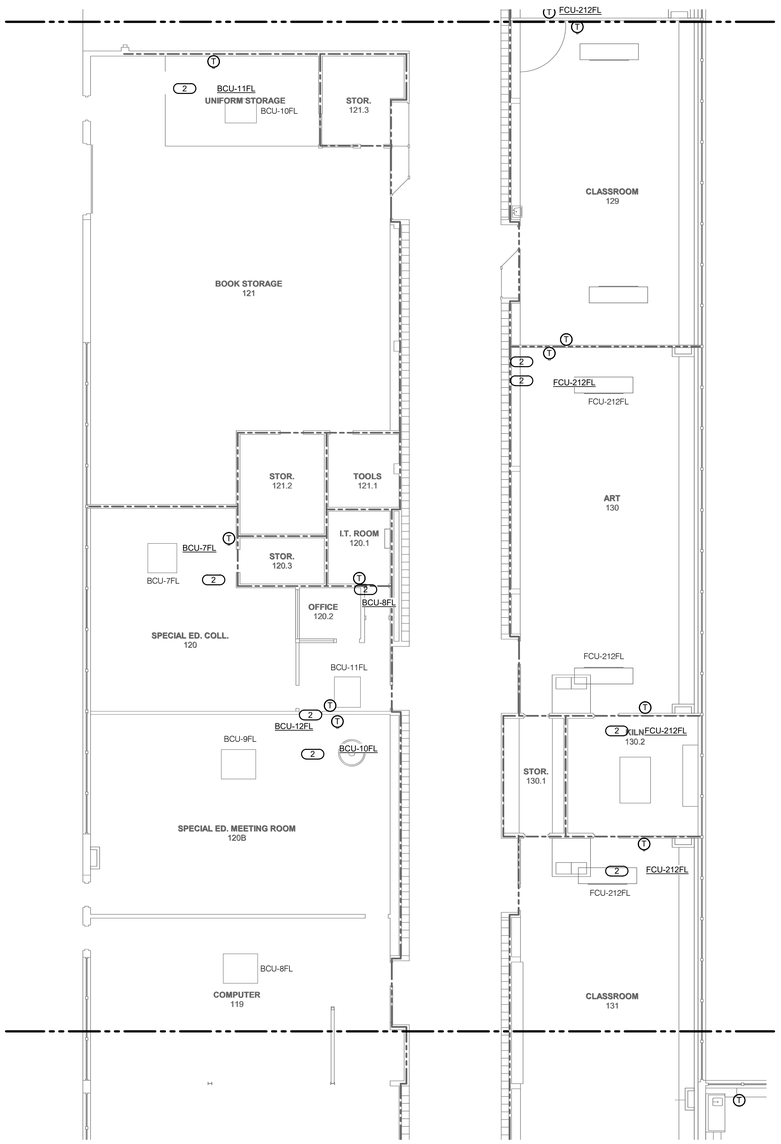
Scale: **1/8" = 1'-0"**

SHEET NUMBER

MC202D

KEYNOTES: #

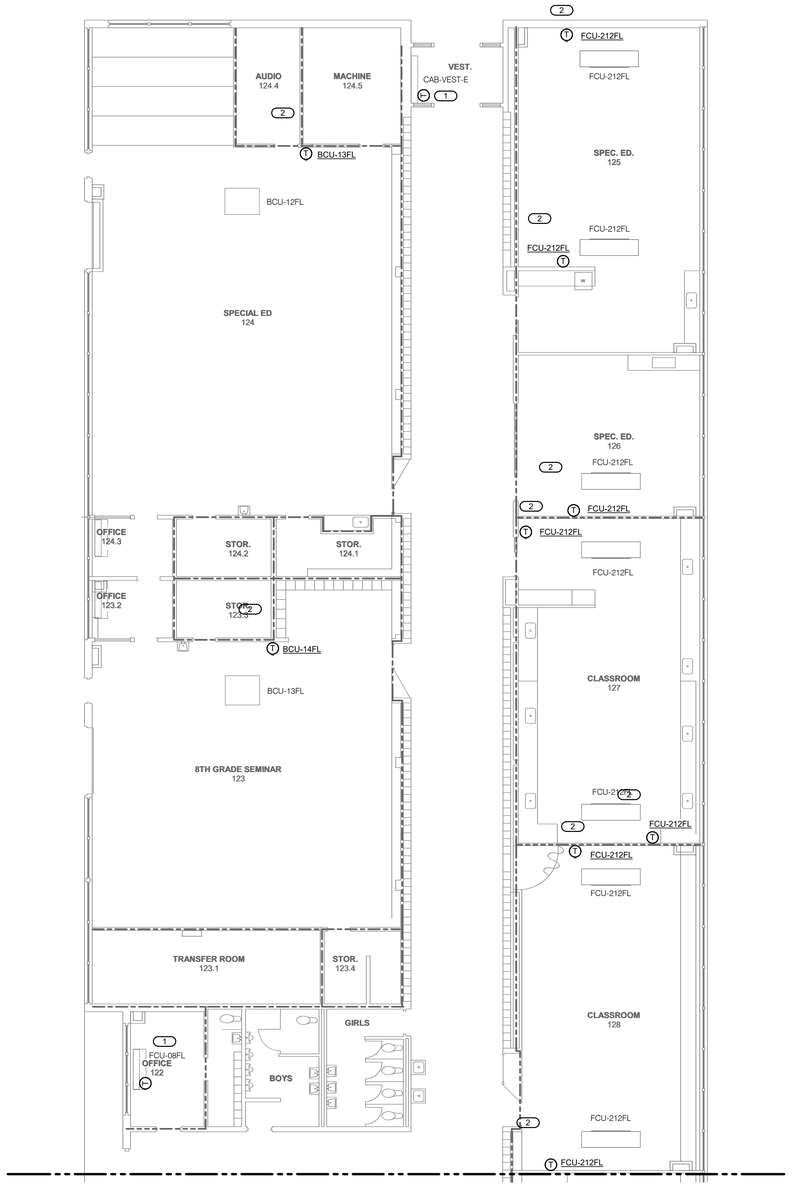
1. TCC SHALL PROVIDE ZONE THERMOSTAT UNIT MOUNTED THAT INTERFACES WITH A FACTORY PROVIDED LOW VOLTAGE INTERFACE BOARD
2. PROVIDE WIRE MOLD FROM DEVICE SERVED TO THERMOSTAT LOCATION.



NORTH

1 FIRST FLOOR - CONTROLS - AREA E

1/8" = 1'-0"



NORTH

2 FIRST FLOOR - CONTROLS - AREA F

1/8" = 1'-0"

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Approved	**Approver**

SHEET TITLE

FIRST FLOOR - CONTROLS - AREA E & F

SCALE

Scale: **1/8" = 1'-0"**

SHEET NUMBER

MC202E

KEYNOTES: #

1. TCC SHALL PROVIDE ZONE THERMOSTAT UNIT MOUNTED THAT INTERFACES WITH A FACTORY PROVIDED LOW VOLTAGE INTERFACE BOARD.
2. PROVIDE WIRE MOLD FROM DEVICE SERVED TO THERMOSTAT LOCATION.

1 SECOND FLOOR - CONTROLS - AREA A

1/8" = 1'-0"

NORTH

IMEG

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Drawn	**M.T.**
Checked	**M.L.**
Approved	**Approver**

SHEET TITLE

SECOND FLOOR - CONTROLS - AREA A

SCALE

Scale: **1/8" = 1'-0"**

SHEET NUMBER

MC203A

21002885.03 1/27/2022 5:12:37 PM ESSER HVAC Improvements - Flinn Middle School

KEYNOTES: #

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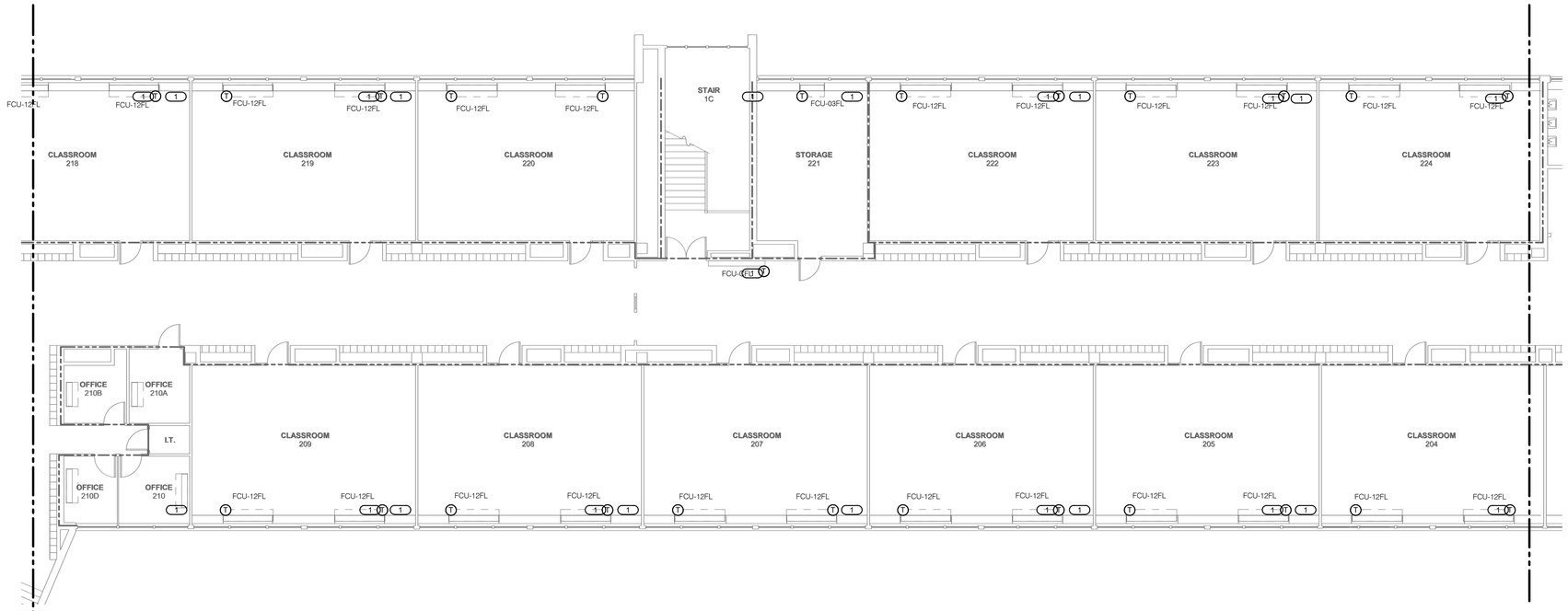
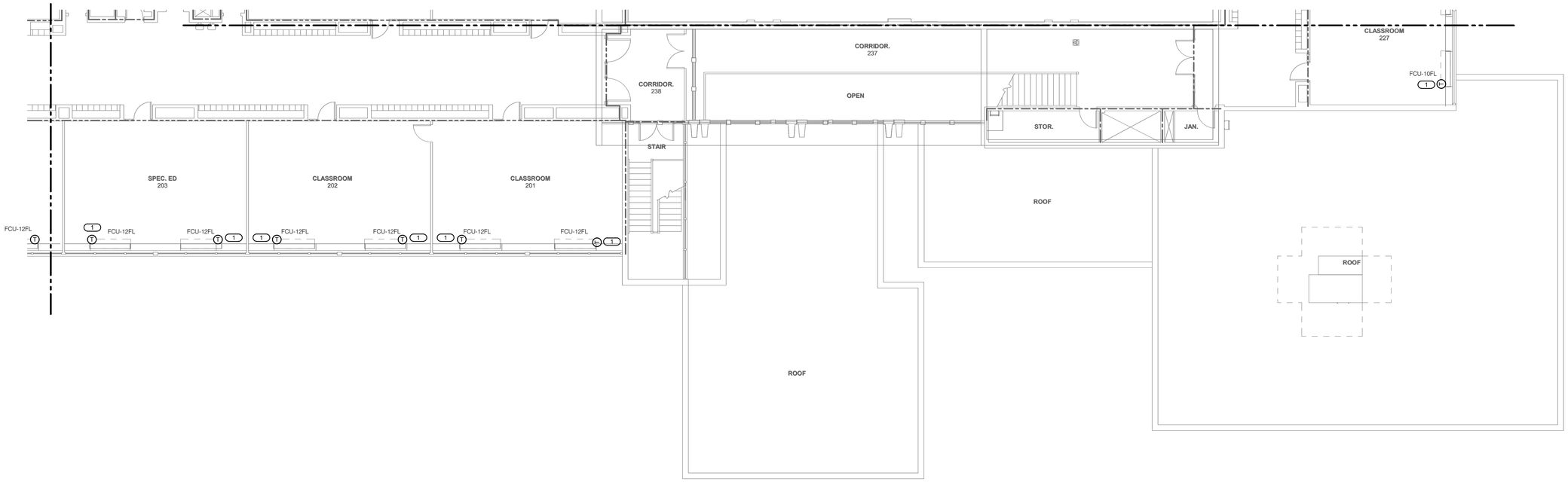


NORTH

1 SECOND FLOOR - CONTROLS - AREA C

1/8" = 1'-0"



NORTH

2 SECOND FLOOR - CONTROLS - AREA B

1/8" = 1'-0"

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SHEET TITLE

SECOND FLOOR - CONTROLS - AREA B & C

SCALE

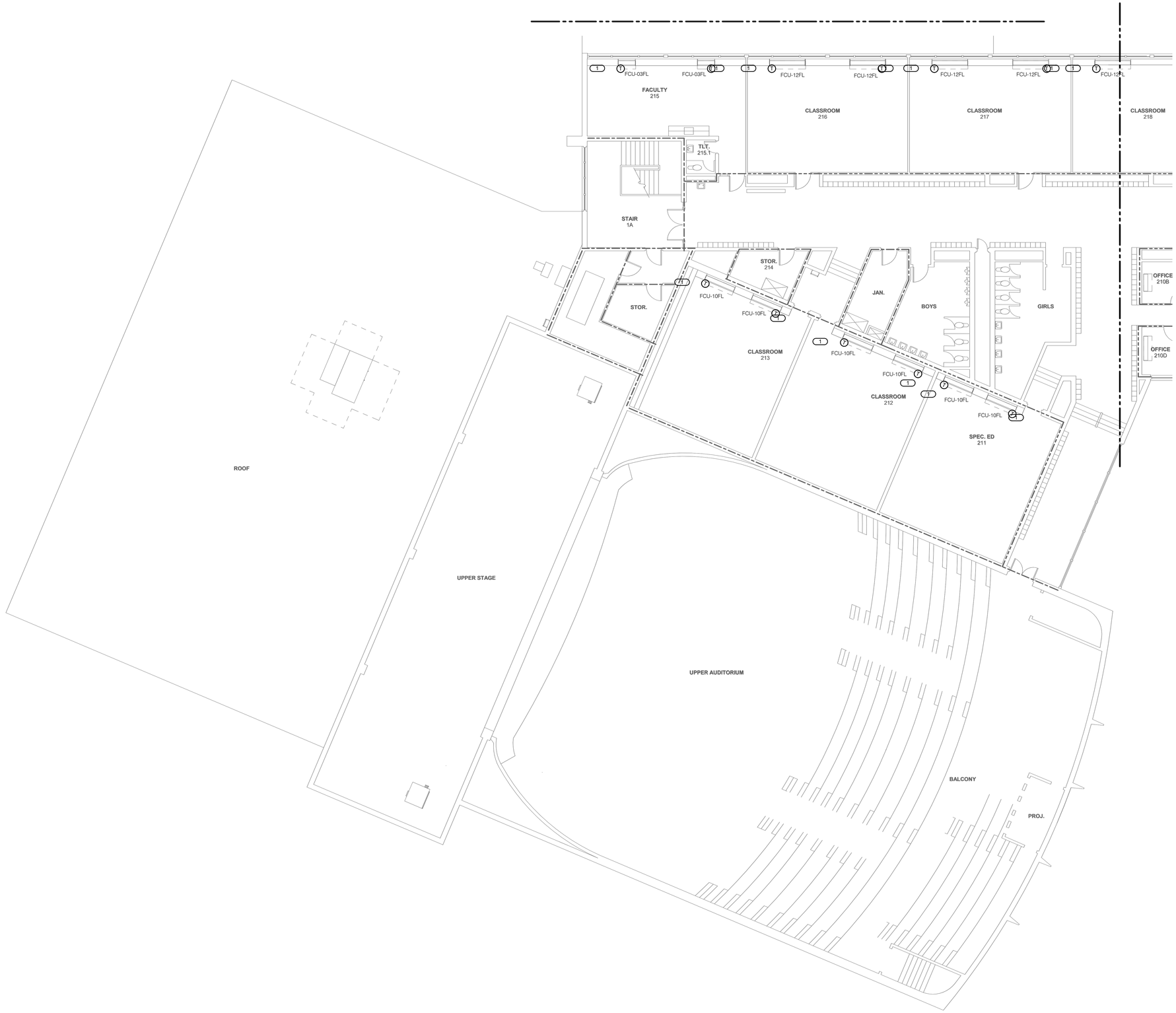
Scale: **1/8" = 1'-0"**

SHEET NUMBER

MC203B

KEYNOTES: #

1. TCC SHALL PROVIDE ZONE THERMOSTAT UNIT MOUNTED THAT INTERFACES WITH A FACTORY PROVIDED LOW VOLTAGE INTERFACE BOARD
2. PROVIDE WIRE MOLD FROM DEVICE SERVED TO THERMOSTAT LOCATION.



NORTH

1 **SECOND FLOOR - CONTROLS - AREA D**

1/8" = 1'-0"

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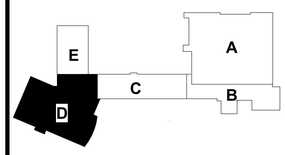

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SHEET TITLE

SECOND FLOOR - CONTROLS - AREA D

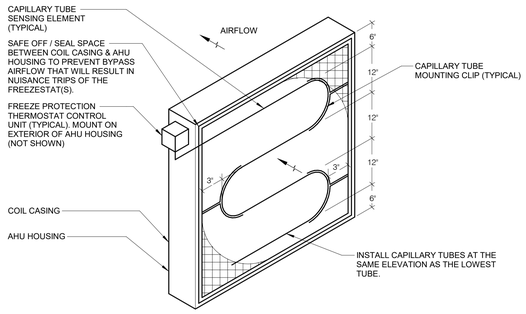
SCALE

Scale: **As indicated**

SHEET NUMBER

MC203D

21002885.03 1/27/2022 5:12:41 PM ESSER HVAC Improvements - Flinn Middle School

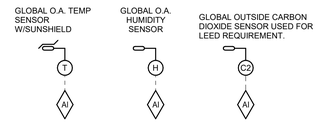


1 LOW LIMIT PROTECTION THERMOSTAT/ MIXED AIR INSTALLATION DETAIL

NO SCALE

NOTES:

1. INSTALL FREEZE PROTECTION THERMOSTAT (FREEZESTAT) CONTROL UNIT(S) ON EXTERIOR OF AIR HANDLING UNIT HOUSING
2. SAFE OFF/SEAL SPACE BETWEEN COIL CASING AND AHU HOUSING TO PREVENT NUISANCE FREEZESTAT TRIPS.
3. INSTALL FREEZESTAT CAPILLARY TUBE(S) SUCH THAT THEY ARE WITHIN 6" OF EVERY POINT ON COIL FACE.
4. PROVIDE MULTIPLE FREEZESTAT(S) AS REQUIRED FOR COMPLETE COVERAGE OF LARGER COILS.
5. SUPPORT CAPILLARY TUBE(S) FROM SIDES OF COIL CASING USING CLIPS DESIGNED FOR THIS PURPOSE.
6. PITCH CAPILLARY TUBE(S) CONTINUALLY DOWNWARD WITHOUT SAGGING.
7. INSTALL LAST PASS OF CAPILLARY TUBE AT SAME ELEVATIN AS LOWEST COIL TUBE.
8. ROLL UP EXCESS PORTION OF CAPPILLARY TUBE, TIE-WRAP NEATLY AND LOCATE IN LOWER CORNER OF COIL CASING.
9. FOR PROTECTION OF CHILLED WATER COILS, PROVIDE TWO COMPLETE SETS OF FREEZE PROTECTION THERMOSTATS:
   35 DEGREE SETPOINT - MANUAL RESET
   40 DEGREE SETPOINT - AUTOMATIC RESET
   INSTALL EACH COMPLETE SET INDEPENDENTLY FOLLOWING PROCEDURE OUTLINED ABOVE.
10. COMB ANY BENT COIL FINS AFTER INSTALLATION IS COMPLETE.
11. REPEAT LAYOUT SHOWN FOR MULTIPLE COIL APPLICATIONS.



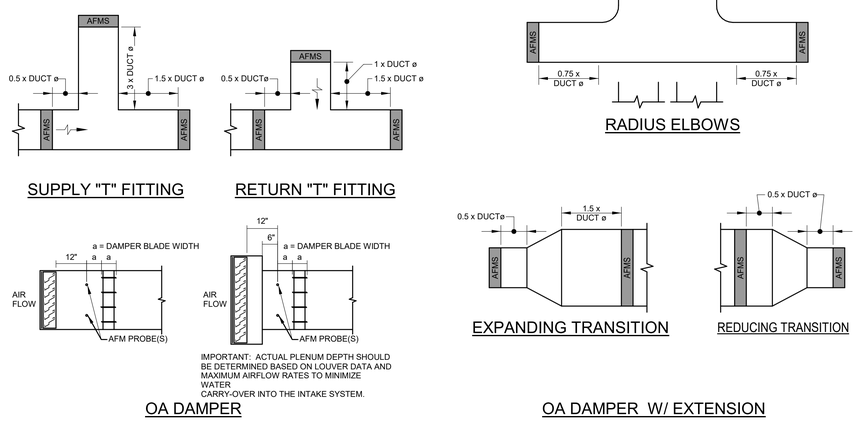
GLOBAL REFERENCE POINTS:

OUTSIDE AIR REFERENCE DRY BULB TEMPERATURE:
- LOCATE ON THE EXTERIOR NORTH SIDE OF THE BUILDING. LOCATION MUST BE SHADED AWAY FROM ANY HEAT SOURCE. LOCATION TO BE DETERMINED PER MANUFACTURER'S RECOMMENDATIONS AND ARCHITECT/ENGINEER'S APPROVAL. CONTRACTOR SHALL PRIME AND PAINT THE DEVICE ENCLOSURE. COLOR SELECTION BY ARCHITECT/ENGINEER.

OUTSIDE AIR REFERENCE CARBON DIOXIDE:
- LOCATE ON THE EXTERIOR OF THE BUILDING ON THE NORTH SIDE BELOW THE SECOND FLOOR OVERHANG ABOVE THE DRIVE UP LANE. LOCATION TO BE DETERMINED PER MANUFACTURER'S RECOMMENDATIONS AND ARCHITECT/ENGINEER'S APPROVAL. CONTRACTOR SHALL PRIME AND PAINT THE DEVICE ENCLOSURE. COLOR SELECTION BY ARCHITECT.

2 GLOBAL REFERENCE POINTS

NO SCALE



3 AIR FLOW MONITORING STATION (AFMS) PLACEMENT DETAILS

NO SCALE

NOTES:

1. INSTALL INSTRUMENT AS PER MANUFACTURER RECOMMENDATION. INSTALL AFMS TRANSMITTER OUTSIDE AIR HANDLING UNIT.
2. DO NOT INSTALL AFMS TRANSMITTER INSIDE AHU IN AIR STREAM.
3. PRIOR TO ANY AFM INSTRUMENT INSTALLATION CONTACT AND COORDINATE WITH OWNER (UIUC COMMISSIONING INSPECTION GROUP).
4. AIRFLOW MEASURING STATIONS FOR OUTSIDE AIR AND EXHAUST AIR FOR EACH AIR HANDLING UNIT ARE INTENDED TO BE DUCT MOUNTED PER THE APPLICATIONS ABOVE WHERE POSSIBLE. IF THE VENTILATION LAYOUT AS INDICATED ON THE VENTILATION PLANS DOES NOT ALLOW FOR THE INSTALLATION OR IS NOT IDENTIFIED IN THE DUCT SYSTEM THEN THE VOLU-FLOW APPLICATION AT THE LOUVER PER DETAIL 6 SHOULD BE USED.

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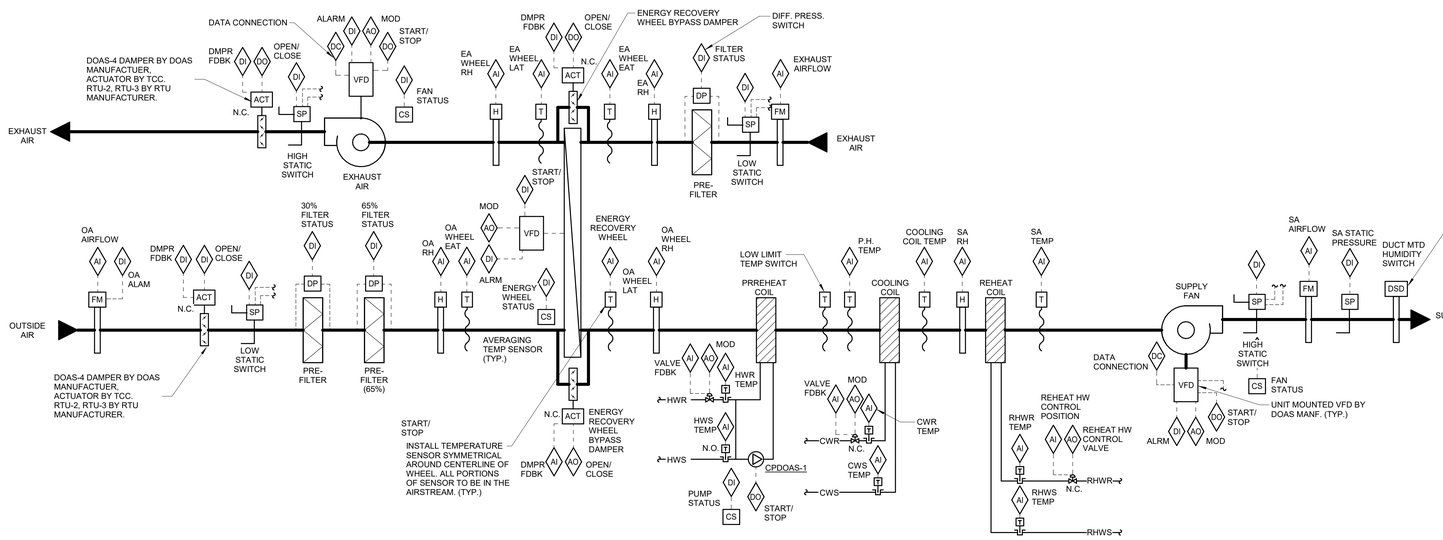
CONTROL DETAILS

SCALE

Scale: 12" = 1'-0"

SHEET NUMBER

MC400



SEQUENCE OF OPERATION:

WHEN DOAS IS INDEXED TO RUN, THE FOLLOWING SHALL OCCUR:
- WHEN THE SUPPLY FAN HAS STARTED THE EXHAUST FAN AND INTERLOCKED EXHAUST FANS SHALL START AS SHOWN IN THE FAN INTERLOCK SCHEDULE.

SUPPLY FAN OPERATION:
FMCS SHALL MODULATE SIGNAL TO SUPPLY FAN VFD AS REQUIRED TO MAINTAIN SCHEDULED 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. FMCS SHALL MODULATE SIGNAL TO EXHAUST FAN VFD AS REQUIRED TO MAINTAIN THE AIRFLOW OFFSET AS INDICATED IN THE EXHAUST FAN AIRFLOW SCHEDULE.

DISCHARGE AIR TEMPERATURE SET POINT:
WHEN OUTSIDE AIR TEMPERATURE IS > 65 DEGREES (ADJ.) THE DISCHARGE AIR SETPOINT SHALL BE 75 DEGREES (ADJ.). WHEN OUTSIDE AIR TEMPERATURE IS < 60 DEGREES (ADJ.) THE DISCHARGE AIR SETPOINT SHALL BE 80 DEGREES (ADJ.) BOTH OF THESE SETPOINTS SHALL BE OWNER DEFINED IN THE DDC SYSTEM.

VENTILATION AIR CONTROL:
WHENEVER THE UNIT IS SIGNALED TO START OR WHEN THE UNIT TRANSITIONS FROM UNOCCUPIED TO OCCUPIED MODE THE FOLLOWING SHALL OCCUR:
- THE OUTSIDE AIR DAMPER AND THE EXHAUST AIR DAMPER SHALL OPEN IN 10% (ADJ.) INCREMENTS EVERY 1 (ADJ.) MINUTE UNTIL THE DAMPERS ARE FULLY OPEN.
- THE SUPPLY AND RELIEF FAN AIRFLOW SHALL TRACK THE POSITION OF THE OUTSIDE AND RELIEF DAMPERS UNTIL STATIC PRESSURE SETPOINT OR CFM OFFSET IS ACHIEVED. AT NO POINT SHALL THE SUPPLY OR RELIEF FANS OPERATE AT A SPEED LOWER THAN THE MANUFACTURER RECOMMENDED MINIMUM SPEED.

DISCHARGE AIR TEMPERATURE CONTROL: (REER TO DOAS RESET SCHEDULE)
AT FULL HEATING THE ENERGY RECOVERY WHEEL SHALL BE ROTATING AT FULL SPEED WITH THE BYPASS DAMPERS CLOSED AND THE HEATING COIL CONTROL VALVE MODULATING TO MAINTAIN SETPOINT.
- WHENEVER TO OUTDOOR TEMPERATURE IS BELOW 40 DEGREES (ADJ.) PREHEAT COIL PUMP CPDOAS-1 SHALL RUN.
- WHENVER THE OUTDOOR TEMPERATURE IS ABOVE 45 DEGREES (ADJ.) PREHEAT COIL PUMP CPDOAS-1 SHALL BE DISABLED.
- WHENEVER THE DISCHARGE AIR TEMPERATURE IS ABOVE SETPOINT THE FOLLOWING SHALL OCCUR:
- THE HEATING COIL CONTROL VALVE SHALL MODULATE CLOSED.
- THE ENERGY RECOVERY WHEEL SHALL BE DISABLED AND THE BYPASS DAMPERS SHALL OPEN.
- THE COOLING COIL CONTROL VALVE SHALL MODULATE TO MAINTAIN SETPOINT.
- THE ENERGY RECOVERY WHEEL SHALL TURN ON TO FULL SPEED AND THE ENERGY RECOVERY WHEEL BYPASS DAMPERS SHALL CLOSE WHEN THE TEMPERATURE DIFFERENCE FROM THE RETURN AIR TO THE OUTSIDE AIR IS 5°F (ADJ.) OR GREATER FOR MORE THAN 20 MINUTES (ADJ.).
- THE COOLING COIL CONTROL VALVE SHALL CONTINUE TO MODULATE TO MAINTAIN SETPOINT.

AT FULL COOLING THE ENERGY RECOVERY WHEEL SHALL BE ROTATING AT FULL SPEED WITH THE BYPASS DAMPERS CLOSED AND THE COOLING COIL CONTROL VALVE MODULATING TO MAINTAIN SETPOINT.

DEHUMIDIFICATION MODE:
WHENEVER THE EXHAUST ENTERING AIR RELATIVE HUMIDITY IS ABOVE 60% (ADJ.) THE COOLING COIL CONTROL VALVE SHALL OPEN FOR DEHUMIDIFICATION. IN THIS CONDITION, THE REHEAT COIL CONTROL VALVE SHALL MODULATE TO CONTROL DOAS-1 DISCHARGE AIR TEMPERATURE AS DEFINED IN THE RESET SCHEDULE.

WHENEVER THE DISCHARGE AIR TEMPERATURE IS BELOW SETPOINT THE FOLLOWING SHALL OCCUR:
- THE COOLING COIL CONTROL VALVE SHALL CONTINUE TO MODULATE TO MAINTAIN DISCHARGE AIR SETPOINT DEFINED IN RESET SCHEDULE BELOW. WHENEVER THE EXHAUST LEAVING AIR RELATIVE HUMIDITY IS ABOVE 50% (ADJ.) THE COOLING COIL CONTROL VALVE SHALL OPEN FOR DEHUMIDIFICATION. IN THIS CONDITION, THE REHEAT COIL CONTROL VALVE SHALL MODULATE TO CONTROL UNIT DISCHARGE AIR TEMPERATURE AS DEFINED IN THE RESET SCHEDULE.
- THE ENERGY RECOVERY WHEEL SHALL BE DISABLED AND THE ENERGY RECOVERY WHEEL BYPASS DAMPERS SHALL OPEN WHEN THE TEMPERATURE DIFFERENCE FROM THE RETURN AIR AND OUTSIDE AIR IS 5°F (ADJ.) OR LESS.
- THE COOLING COIL CONTROL VALVE SHALL MODULATE CLOSED. THE COOLING COIL CONTROL VALVE SHALL BE DISABLED BELOW 50°F (ADJ.)
- THE ENERGY RECOVERY WHEEL SHALL BE ENABLED AND THE BYPASS DAMPERS SHALL CLOSE.
- THE ENERGY RECOVERY WHEEL SHALL MODULATE SPEED OF WHEEL TO MAINTAIN SCHEDULED COIL DISCHARGE AIR SETPOINT.
- ONCE THE ENERGY RECOVERY WHEEL IS AT FULL SPEED THE HEATING COIL CONTROL VALVE SHALL MODULATE OPEN.

DOAS RESET SCHEDULE:
- CHILLED WATER VALVE AND REHEAT VALVE SHALL MODULATE ACCORDINGLY TO MAINTAIN THE FOLLOWING:
- OA TEMPERATURE < 50 (ADJ.) = 70 DEGREE (ADJ.) DISCHARGE AIR TEMPERATURE
- OA TEMPERATURE > 65 (ADJ.) = 60 DEGREE (ADJ.) DISCHARGE AIR TEMPERATURE
- USE A LINEAR SCALE BETWEEN THESE TWO SETPOINTS FOR DISCHARGE AIR TEMPERATURE CONTROL BETWEEN THESE TWO (ADJ.) VALUES.
- RESET SCHEDULE WOULD ALSO APPLY TO REHEAT COIL MODULATION AS NOTED ABOVE.

ENERGY RECOVERY WHEEL STANDARD SEQUENCE OF OPERATION:

ENERGY WHEEL IS EQUIPPED WITH BYPASS DAMPERS ON THE SUPPLY AND EXHAUST SIDE WITH END SWITCH TO INDICATE FULL OPEN, A VARIABLE FREQUENCY DRIVE TO CONTROL ROTATION SPEED, AND A ROTATION DETECTION MODULE. ALL VALUES WILL BE DISPLAYED AS 0% TO 100% WHERE 0% IS 0% OPEN / MINIMUM, AND 100% IS FULL OPEN / MAXIMUM.
THE ENERGY WHEEL WILL BE ENABLED/ DISABLED WITH THE AIR HANDLING UNIT SUPPLY FAN. WHEN THE AIR HANDLING UNIT SUPPLY FAN HAS PROVEN "ON" AND THE ENERGY WHEEL VARIABLE FREQUENCY DRIVE IS NOT IN FAULT THE BAS WILL SEND A START COMMAND TO THE ENERGY WHEEL. THE PROGRAM WILL CALCULATE THE ENERGY WHEEL'S ENTHALPY, DEWPOINT, AND WETBULB TEMPERATURE FOR THE LEAVING SUPPLY SIDE AND THE ENTERING AND LEAVING EXHAUST SIDE. THESE VALUES WILL BE BASED ON THE RESPECTIVE TEMPERATURE AND HUMIDITY INPUT VALUES.

THERE WILL BE FOUR OPERATIONAL MODES FOR THE ENERGY WHEEL
- FROST/CONDENSATE PREVENTION MODE
- HEAT RECOVERY MODE
- COOLING RECOVERY MODE
- CRAWL MODE

FROST/CONDENSATE PREVENTION MODE: WILL BE CONTROLLED WITH A DIRECT ACTING PROPORTIONAL AND INTEGRAL LOOP WITH THE LOOP OUTPUT REPRESENTED IN 0% TO 100% UNITS CALCULATED WITH THE DEVIATION BETWEEN THE PROCESS SET POINT AND THE PROCESS VARIABLE. THE PROCESS SET POINT WILL BE THE VALUE OF THE ENERGY WHEEL'S CALCULATED FROST DEWPOINT PLUS FIVE DEGREES F. THE PROCESS VARIABLE WILL BE REPRESENTED BY THE VALUE OF THE ENERGY WHEEL'S LEAVING EXHAUST TEMP.

HEAT RECOVERY MODE:
WILL BE ENABLED BY A DEAD BAND SWITCH BASED ON OUTDOOR AIR TEMPERATURE. "ON" AT 48 DEGREES F AND "OFF" AT 52 DEGREES F AND WILL BE CONTROLLED WITH A REVERSE ACTING PROPORTIONAL AND INTEGRAL LOOP WITH THE LOOP OUTPUT REPRESENTED IN 0% TO 100% UNITS CALCULATED WITH THE DEVIATION BETWEEN THE PROCESS SET POINT AND THE PROCESS VARIABLE. THE PROCESS SET POINT IS THE VALUE OF THE AIR HANDLING UNIT'S DISCHARGE AIR TEMPERATURE SET POINT. THE PROCESS VARIABLE WILL BE REPRESENTED BY THE VALUE OF THE ENERGY WHEEL'S LEAVING SUPPLY TEMPERATURE. THE COMMAND FOR THE ENERGY WHEEL'S VARIABLE FREQUENCY DRIVE WILL BE THE MINIMUM VALUE OF THE ENERGY WHEEL ACCELL RAMP, FROST/CONDENSATE PREVENTION LOOP OUTPUT, AND THE HEAT RECOVERY LOOP OUTPUT, AND SHALL MODULATE TO MAINTAIN SETPOINT.

COOLING RECOVERY MODE:
WILL BE ENABLED BY A DEAD BAND SWITCH BASED ON OUTDOOR AIR TEMPERATURE MINUS THE AIR HANDLING UNIT'S RETURN AIR TEMPERATURE, "ON" AT 5 DEGREES F. DEVIATION AND "OFF" AT 2 DEGREES F DEVIATION AND WILL BE CONTROLLED WITH A DIRECT ACTING PROPORTIONAL AND INTEGRAL LOOP WITH THE LOOP OUTPUT REPRESENTED IN 0% TO 100% UNITS CALCULATED WITH THE DEVIATION BETWEEN THE PROCESS SET POINT AND THE PROCESS VARIABLE. THE PROCESS SET POINT IS THE VALUE OF THE AIR HANDLING UNIT'S DISCHARGE AIR TEMPERATURE SET POINT. THE PROCESS VARIABLE WILL BE REPRESENTED BY THE VALUE OF THE ENERGY WHEEL'S LEAVING SUPPLY TEMPERATURE. THE COMMAND FOR THE ENERGY WHEEL'S VARIABLE FREQUENCY DRIVE WILL BE THE MINIMUM VALUE OF THE ENERGY WHEEL ACCELL RAMP, FROST/CONDENSATE PREVENTION LOOP OUTPUT, AND THE COOLING RECOVERY LOOP OUTPUT, AND SHALL MODULATE TO MAINTAIN SETPOINT.

CRAWL MODE:
THIS MODE WILL BE ENABLED WHEN BOTH THE HEAT RECOVERY ENABLE AND THE COOLING RECOVERY ENABLE ARE "OFF". WHEN THE CRAWL MODE IS ENABLED THE BYPASS DAMPERS WILL RAMP TO 100% BYPASS, AND THE ENERGY WHEEL'S VARIABLE FREQUENCY DRIVE WILL BE COMMANDED TO MINIMUM. WHEN THE HEAT RECOVERY ENABLE OR THE COOLING RECOVERY ENABLE ARE "ON" THE CRAWL MODE ENABLE WILL BE "OFF" AND THE BYPASS DAMPERS WILL RAMP TO 0% BYPASS, AND THE ENERGY WHEEL'S VARIABLE FREQUENCY DRIVE WILL MODULATE TO MAINTAIN DISCHARGE AIR TEMPERATURE SET POINT.

FROST PREVENTION:
IF AT ANY TIME THE SUPPLY AIR TEMPERATURE SETPOINT CAN'T BE MAINTAINED, THE REHEAT COIL CONTROL VALVE SHALL MODULATE OPEN TO MAINTAIN DISCHARGE AIR SETPOINT.

COOLING COIL FREEZE PROTECTION:
ANY TIME THE SUPPLY AIR TEMPERATURE DOWNSTREAM OF THE HEAT RECOVERY WHEEL IS AT OR BELOW 38 DEGREES (ADJ.) THE PREHEAT COIL CONTROL VALVE SHALL OPEN TO MAINTAIN AND ENTERING AIR TEMPERATURE OF 45 DEGREES (ADJ.)

WHEN THE ABOVE CONDITIONS ARE NOT MET. THE WHEEL SHALL ENTER A "CRAWL" MODE. REFER TO CRAWL MODE NOTED ABOVE.

PREHEAT COIL PUMP OPERATION:
WHEN OUTSIDE AIR LEAVING WHEEL TEMPERATURE RISES ABOVE 38°F (ADJ.) FOR 10 MINUTES (ADJ.) PREHEAT HEATING WATER COIL CIRCULATION PUMP SHALL OPERATE ONLY WHEN HEATING IS CALLED FOR (PREHEAT HEATING WATER VALVE IS COMMANDED TO OPEN). WHEN OUTSIDE AIR LEAVING WHEEL TEMPERATURE DROPS BELOW 38°F (ADJ.) HEATING WATER COIL CIRCULATION PUMP SHALL OPERATE CONTINUOUSLY. ONCE ENERGIZED, PREHEAT HEATING WATER COIL CIRCULATION PUMP SHALL REMAIN IN OPERATION FOR MINIMUM 5 MINUTES (ADJ.) TO PREVENT SHORT CYCLING.

ALARMS, INTERLOCKS, AND SAFETIES:
WHEN FIRE ALARM CONTROL PANEL INDICATES AN ALARM CONDITION, DOAS SHALL BE SHUTDOWN.

THE FOLLOWING CONDITIONS SHALL SHUTDOWN THE DOAS AND SHALL INDICATE AN ALARM CONDITION AT THE FMCS WORKSTATION:
- LOW STATIC PRESSURE SWITCH INDICATES EXHAUST DUCT PRESSURE LESS THAN THE SPECIFIED DUCT PRESSURE CLASS.
- HIGH STATIC PRESSURE SWITCH INDICATES EXHAUST DUCT STATIC PRESSURE GREATER THAN THE SPECIFIED DUCT PRESSURE CLASS.
- LOW STATIC PRESSURE SWITCH INDICATES OUTSIDE AIR SECTION PRESSURE LESS THAN THE SPECIFIED DUCT PRESSURE CLASS OF THE OUTSIDE AIR DUCTWORK.
- HIGH STATIC PRESSURE SWITCH INDICATES SUPPLY DUCT STATIC PRESSURE GREATER THAN THE SPECIFIED DUCT PRESSURE CLASS.
- SHOULD ANY ONE FOOT SECTION OF THE MANUAL RESET LOW LIMIT TEMPERATURE SWITCH SENSE AIR TEMPERATURE <34°F (ADJ.).

THE FOLLOWING CONDITIONS SHALL INDICATE AN ALARM AT THE FMCS, HOWEVER DOAS SHALL CONTINUE TO OPERATE:
- PREHEAT HEATING COIL CIRCULATION PUMP IS COMMANDED TO RUN AND CURRENT RELAY INDICATES INSUFFICIENT CURRENT FLOW.
- AN ALARM IS INDICATED AT ANY SUPPLY FAN VFD OR EXHAUST FAN VFD.
- DIFFERENTIAL PRESSURE SWITCH ACROSS ANY PRE-FILTER (30%) BANK EXCEEDS 0.6 INCHES W.G. (ADJ.)
- DIFFERENTIAL PRESSURE SWITCH ACROSS ANY PRE-FILTER (65%) EXCEEDS 1.0 INCHES W.G. (ADJ.)
- SEND AN ALARM TO THE FMCS OPERATOR INTERFACE IF THE DISCHARGE AIR TEMPERATURE IS MORE THAN 5°F (ADJ.) ABOVE OR BELOW SETPOINT.
- DIFFERENTIAL PRESSURE SWITCH ACROSS ANY PRE-FILTER (65%) EXCEEDS 1.0 INCHES W.G. (ADJ.)
- THE HEAT WHEEL COMES WITH FACTORY EQUIPPED WITH A PROXIMITY SWITCH THAT SHALL PROVIDE A DRY CONTACT IN PUT TO THE DDC SYSTEM. IF THE WHEEL IS INDEXED TO RUN AND TWO SWITCH CLOSURES ARE NOT SEEN WITH 10 MINUTES, AN ALARM WILL BE SENT THROUGH THE DDC SYSTEM SIGNALING A WHEEL ROTATION FAILURE.

IN THE EVENT SUPPLY FAN IS NOT RUNNING (AS INDICATED BY THE CURRENT SENSING RELAYS) EXHAUST AIR FAN SHALL BE DE-ENERGIZED.

WHENEVER DOAS IS SHUTDOWN THE FOLLOWING SHALL OCCUR:
- THE OUTSIDE AIR AND EXHAUST AIR DAMPER SHALL FULLY CLOSE.
- PREHEAT HEATING COIL HEATING WATER CIRCULATION PUMP AND HEATING WATER CONTROL VALVE SHALL REMAIN UNDER CONTROL OF ITS INPUT SENSOR.
- CHILLED WATER CONTROL VALVE SHALL FULLY CLOSE.
- SUPPLY FAN AND EXHAUST FAN VFDS SHALL BE DE-ENERGIZED.
- INTERLOCKED EXHAUST FANS SHALL BE DE-ENERGIZED.
- ENERGY RECOVERY WHEEL SHALL STOP AND BYPASS DAMPERS WILL CLOSE.

UNOCCUPIED MODE:
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.

GRAPHICAL DISPLAY:
DISPLAY THE GLOBAL OUTSIDE AIR TEMPERATURE AND HUMIDITY ON AHU GRAPHIC PAGE.

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 100-DAY (ADJ.) DURATION AT WHICH POINT THE NEWEST VALUES SHALL AUTOMATICALLY OVERWRITE THE OLDEST VALUES:

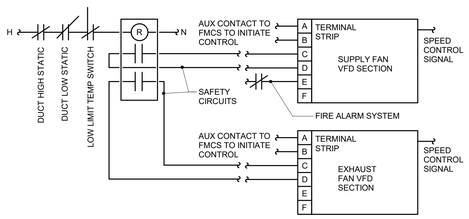
- DATE
- TIME
- GLOBAL OUTSIDE AIR TEMP [°F]
- GLOBAL OUTSIDE AIR HUMIDITY [%RH]
- SUPPLY AIRFLOW [CFM]
- SUPPLY AIR TEMP (SAT) [°F]
- SUPPLY AIR TEMP SETPOINT [°F]
- SUPPLY AIR RELATIVE HUMIDITY [%]
- SUPPLY AIR DEWPOINT [°F]
- SUPPLY AIR DEWPOINT SETPOINT [°F]
- EXHAUST AIRFLOW [CFM]
- EXHAUST AIR TEMP ENTERING UNIT (EAT) [°F]
- EXHAUST AIR RELATIVE HUMIDITY ENTERING UNIT [%]
- ENERGY RECOVERY WHEEL EXHAUST AIR LEAVING AIR TEMPERATURE [°F]
- ENERGY RECOVERY WHEEL EXHAUST AIR LEAVING RELATIVE HUMIDITY [°F]
- OUTSIDE AIRFLOW [CFM]
- 35% FILTER LOADING [STATUS]
- RETURN FILTER LOADING [STATUS]
- HEATING WATER VALVE POSITION [% OPEN]
- HEATING COIL CIRCULATION PUMP [ON/OFF]
- PREHEAT COIL DISCHARGE AIR TEMP [°F]
- CHILLED WATER VALVE POSITION [% OPEN]
- 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]

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

TYPICAL FOR DOAS-4.



SUPPLY & EXHAUST FAN VFD CONTROL

CONNECT FIRE ALARM TO AHU START/STOP CIRCUIT SO FIRE ALARM CAN SHUT DOWN AND SO AHU CAN AUTOMATICALLY RESTART AFTER A FIRE ALARM TEST

1 **UNIT WITH ENERGY RECOVERY WHEEL CONTROL - DOAS-4, RTU-2, RTU-3**

NO SCALE

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Illinois Design Firm Registration #184007037-0006

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REVISIONS

No.	Date	Revision / Issue

SHEET INFORMATION

Issue	BID DOCUMENTS
Date	JANUARY 28, 2022
Job Number	21002885.03
Drawn	M.T.
Checked	M.L.
Approved	Approver

SHEET TITLE

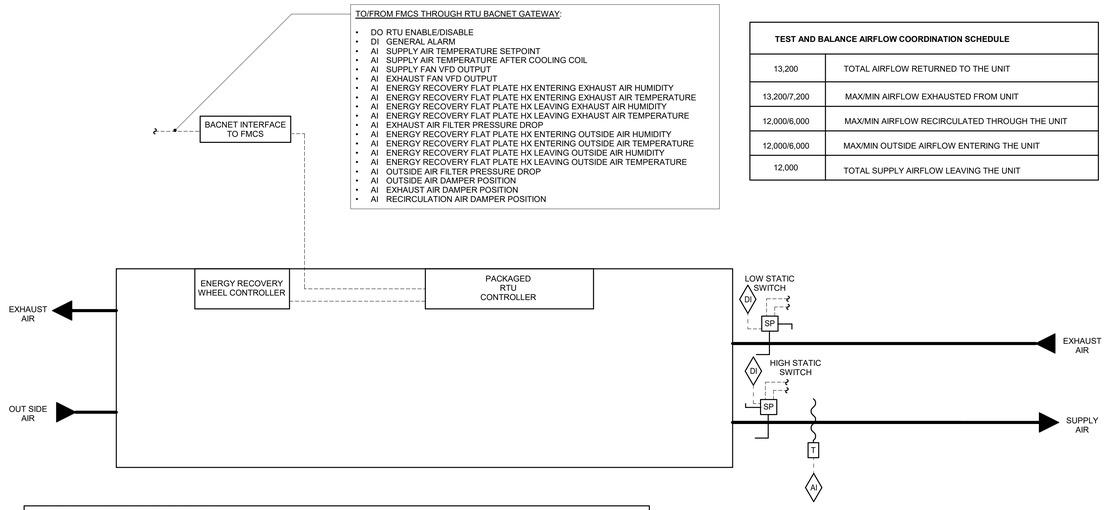
DOAS/RTU CONTROL DIAGRAM

SCALE

Scale: 12" = 1'-0"

SHEET NUMBER

MC500



TEST AND BALANCE AIRFLOW COORDINATION SCHEDULE	
13,200	TOTAL AIRFLOW RETURNED TO THE UNIT
13,200/7,200	MAX/MIN AIRFLOW EXHAUSTED FROM UNIT
12,000/6,000	MAX/MIN AIRFLOW RECIRCULATED THROUGH THE UNIT
12,000/6,000	MAX/MIN OUTSIDE AIRFLOW ENTERING THE UNIT
12,000	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.

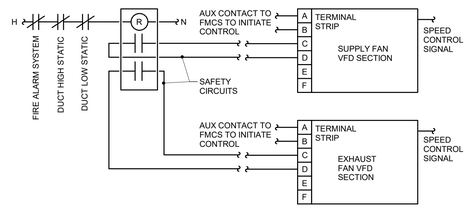
PURGE MODE CONTROL:
PURGE MODE SHALL BE INITIALIZED MANUALLY THROUGH THE FMCS.
THE FOLLOWING OCCUR WHEN PURGE IS INITIALIZED:
- OUTSIDE AIR DAMPER MODULATES OPEN TO ITS MAXIMUM POSITION.
- RECIRCULATION DAMPER MODULATES CLOSED TO ITS MINIMUM POSITION.
- DEHUMIDIFICATION VIA MECHANICAL COOLING IS ALLOWED.
- 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 UNIT CONTROL - RTU-1
NO SCALE

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REFERENCE SCALE IN INCHES
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REVISIONS

No.	Date	Revision / Issue

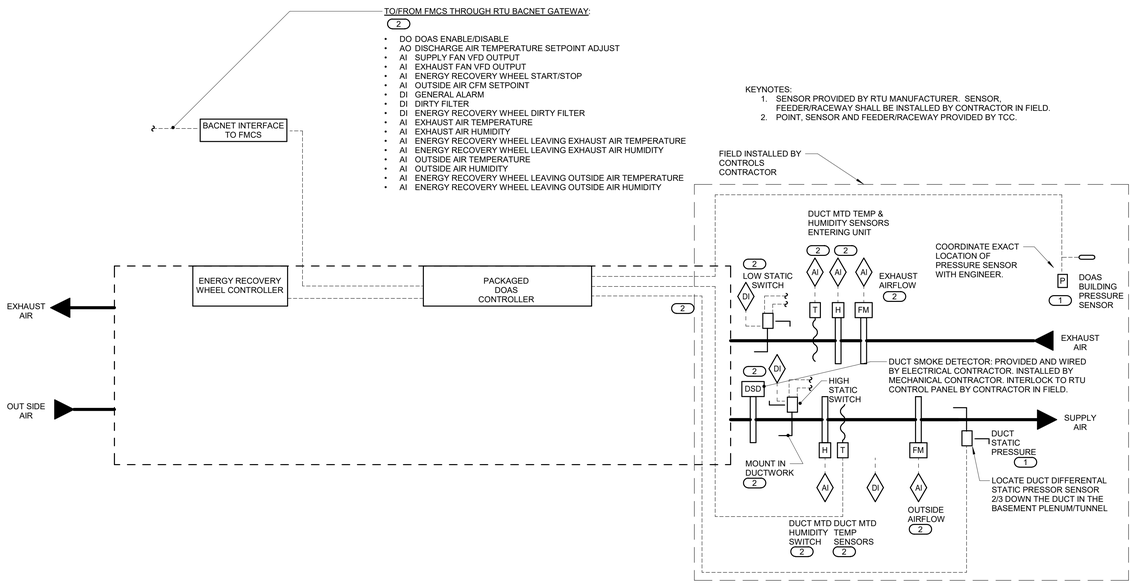
SHEET INFORMATION

Issue	BID DOCUMENTS
Date	JANUARY 28, 2022
Job Number	21002885.03
Drawn	M.T.
Checked	M.L.
Approved	Approver

SHEET TITLE
DOAS/RTU CONTROL DIAGRAM

SCALE
Scale: 12" = 1'-0"

SHEET NUMBER
MC501



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.

CONTROLS PROVIDED BY PACKED EQUIPMENT MANUFACTURER:

PACKAGE ROOFTOP UNIT SYSTEM DESCRIPTION:
REFER TO SECTION 23 74 11 FOR A DESCRIPTION OF THE RTU AND THE CONTROLS PROVIDED BY THE RTU MANUFACTURER.

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

SUPPLY FAN CONTROL:
RTU CONTROLLER SHALL MODULATE SIGNAL TO SUPPLY FAN VFD AS REQUIRED TO MAINTAIN DUCT STATIC PRESSURE SETPOINT AS MEASURED BY THE STATIC PRESSURE TRANSMITTER.

SUPPLY FAN CONTROL:
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 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 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.
- THE DOAS COMPRESSORS SHALL BE ENABLED AND MFR SHALL MODULATE COMPRESSOR 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 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 OPEN.

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 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
TYPICAL FOR DOAS-1

DOAS EXHAUST FAN AIRFLOW SCHEDULE

SYSTEM	SUPPLY CFM	PRESSURIZATION CFM	REMARKS
DOAS-1	5,100	500	NOTES 1,2,3
DOAS-2	7,180	500	NOTES 1,2,3
DOAS-3	4,205	500	NOTES 1,2,3
DOAS-5	4,530	500	NOTES 1,2,3
DOAS-6	4,750	500	NOTES 1,2,3
DOAS-7	3,290	500	NOTES 1,2,3
DOAS-8	6,280	500	NOTES 1,2,3

NOTES:
1. **DOAS EXHAUST FAN AIRFLOW SETPOINT SHALL BE THE SUPPLY FAN AIRFLOW (AS MEASURED BY THE AFMS)**
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-1, EF-2, MAU-1	NOTE 1
DOAS-2	NONE	NOTE 1
DOAS-3	NONE	NOTE 1
DOAS-5	NONE	NOTE 1
DOAS-6	NONE	NOTE 1
DOAS-7	NONE	NOTE 1
DOAS-8	EXISTING PUBLIC RESTROOM. CFM TO BE VERIFIED	NOTE 1

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

Table based on 55F LAT, 70F RAT, -15F OAT, 80% Wheel, 100% OA.

Heating Coil	Modulating	Off																				
Wheel	On	On / Partial Recovery Only															Off			On / Bypass Closed		
Economizer	Not Applicable																					
Cooling Coil	Off																Modulating					
OA Temp	-20	-15	-10	-5	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95

1 **PACKAGED DOAS UNIT WITH ENERGY RECOVERY WHEEL CONTROL - DOAS-1, DOAS-2, DOAS-3, DOAS-5, DOAS-6, DOAS-7 & DOAS-8**
NO SCALE

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REVISIONS

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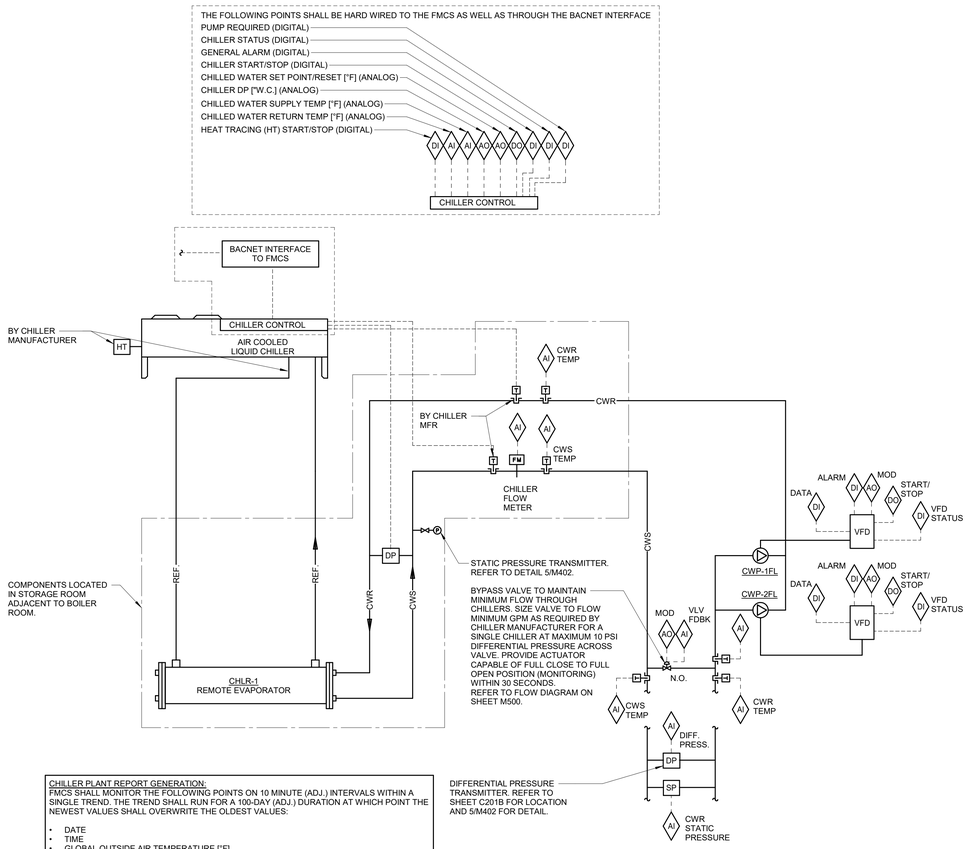
Approved	Approver

SHEET TITLE
PACKAGED DOAS CONTROL DIAGRAM

SCALE
Scale: 12" = 1'-0"

SHEET NUMBER
MC502



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.

FMCS SHALL CALCULATE AVERAGE VALUES BY SUMMING THE OUTPUTS (SERVING ONLY CHILLERS THAT ARE OPERATING) AND DIVIDING BY THE NUMBER OF OPERATIONAL CHILLERS.

ONCE PER MONTH, THE FMCS SHALL RECORD THE LARGEST CHILLED WATER SYSTEM LOAD 300 TONS 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 A CHILLER TO RUN THE FOLLOWING SHALL OCCUR:
- THE FMCS SHALL OPEN THE CHILLER ISOLATION VALVE ON THE CHILLED WATER ASSOCIATED WITH THE CHILLER.
- 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, IF ALL CHILLERS ARE INDEXED TO STOP.
- THE FMCS SHALL CLOSE THE CHILLER ISOLATION VALVE ON THE CHILLED WATER ASSOCIATED WITH THE CHILLER.

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 CHW COOLING COIL.

THE FMCS SHALL ALTERNATE THE LEAD PUMP ON A 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 EACH CHILLER SHALL BE DETERMINED BY THE FLOW METER. IF MINIMUM FLOW RATE IS MET THE CONTROL VALVE SHALL BE 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, CONDENSER WATER PUMP, CHILLER WATER PUMP, AND COOLING TOWER 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.).
- AN ALARM IS INDICATED IF THE HEAT TRACE SYSTEM FAILS. THE LEAD CHILLED WATER PUMP SHALL RUN IF HEAT TRACE FAILS, FAULTS, OR GOES INTO ALARM.
- IN THE EVENT A CHILLER IS INDEXED TO OPERATE AND FAILS TO DO SO, AN ALARM SHALL BE GENERATED AT THE OPERATOR WORKSTATION AND THE FMCS SHALL AUTOMATICALLY START THE LAG CHILLER.

1 AIR COOLED CHILLER CONTROLS - VARIABLE PRIMARY CHLR-1
NO SCALE

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REVISIONS

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Job Number	21002885.03
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SHEET TITLE
MAU CONTROL DIAGRAM

SCALE
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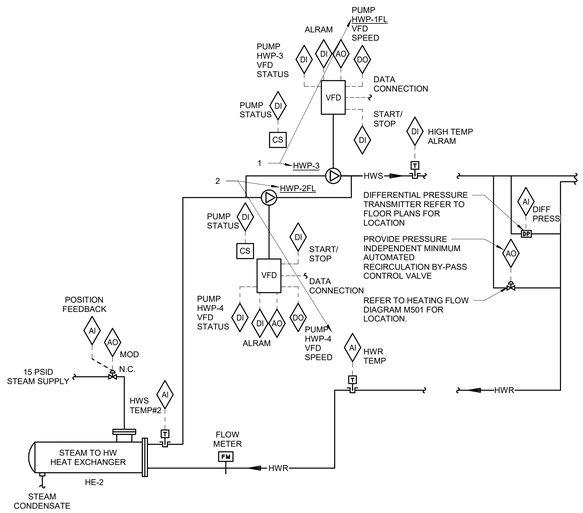
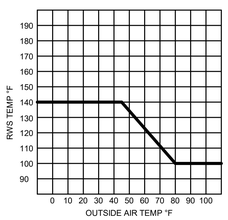
MC503





RWS TEMP RESET SCHEDULE

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 SHALL BE PROVIDED WITH A DDC CONTROLLED MODULATING BYPASS WITH POSITION FEEDBACK TO MAINTAIN MINIMUM FLOW.
- 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 LOAD SIDE 2 WAY VALVE SYSTEMS SHALL BE PROVIDED WITH A BYPASS WITH AN AUTOMATIC BYPASS CONTROL VALVE (PRESSURE INDEPENDENT CONTROL VALVE) TO OPEN WHEN 90% OF THE CONTROL VALVES ARE CLOSED --- HEATING VAV SYSTEM, AND A CONTROL SET POINT TO MAINTAIN A MINIMUM FLOW RATE OR A BALANCING VALVE. REFER TO HEATING WATER SYSTEM BYPASS VALVE SEQUENCE OF OPERATION FOR DETAILS
- 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.

HEATING 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 180 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

REPORTS AND TRENDING

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

1 HEATING HOT WATER CONTROL HE-1

NO SCALE

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SHEET TITLE
HEAT EXCHANGER CONTROL DIAGRAM

SCALE
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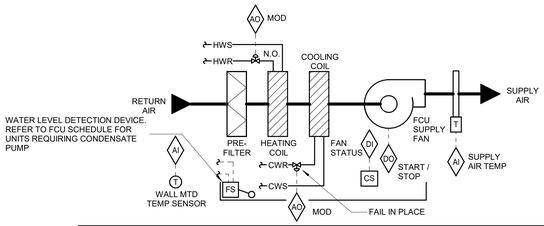
MC504



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 ARE VALVES 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.

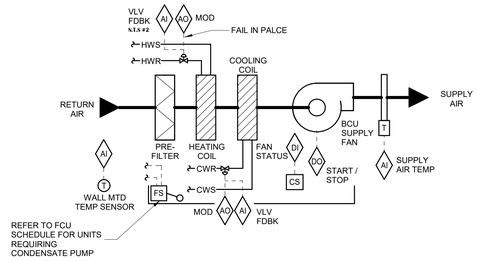
ALARMS, INTERLOCKS & SAFETIES:
WHEN THE FIRE ALARM CONTROL PANEL INDICATES AN ALARM CONDITION, FCU SHALL SHUTDOWN.

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.
- SUPPLY FAN SHALL BE DE-ENERGIZED.

1 FAN COIL CONTROL HORIZONTAL HEATING/COOLING - FCU
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 BLOWER COIL UNIT HEATING COIL CONTROL VALVE SHALL BE CLOSED.
- THE BLOWER COIL UNIT CHILLED WATER CONTROL VALVE SHALL MODULATE OPEN TO MAINTAIN SPACE TEMPERATURE SETPOINT.

WHENEVER THE ROOM AIR TEMPERATURE IS 3°F (ADJ.) BELOW THE SETPOINT, THE FOLLOWING SHALL OCCUR:
- THE CHILLED COIL CONTROL VALVE SHALL BE CLOSED.
- THE 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 ARE CLOSED THE SUPPLY FAN SHALL BE DE-ENERGIZED.

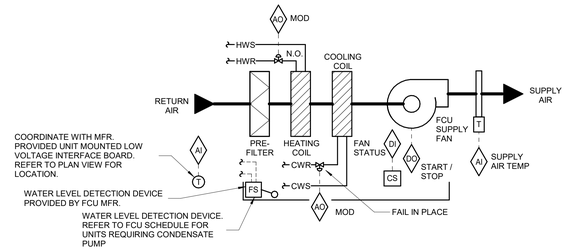
ALARMS, INTERLOCKS & SAFETIES:
WHEN THE FIRE ALARM CONTROL PANEL INDICATES AN ALARM CONDITION, BCU SHALL SHUTDOWN.

A FLOAT SWITCH MOUNTED IN THE SECONDARY DRAIN PAN BELOW EACH BCU SHALL CLOSE THE CHILLED WATER VALVE AND PREVENT SUPPLY FAN OPERATION UPON DETECTION OF WATER 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 BCU IS SHUTDOWN THE FOLLOWING SHALL OCCUR:
- HEATING AND CHILLED WATER CONTROL VALVE SHALL CLOSE TO PREVENT CHILLED WATER FLOW THROUGH COOLING COIL.
- SUPPLY FAN SHALL BE DE-ENERGIZED.

2 BLOWER COIL CONTROL- HORIZONTAL HEATING/COOLING - BCU
NO SCALE



SEQUENCE OF OPERATION:
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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 ARE VALVES 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.

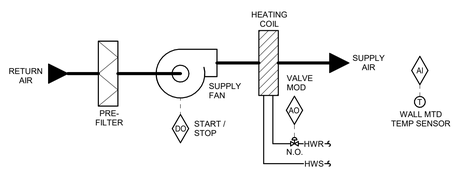
ALARMS, INTERLOCKS & SAFETIES:
WHEN THE FIRE ALARM CONTROL PANEL INDICATES AN ALARM CONDITION, FCU SHALL SHUTDOWN.

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.
- SUPPLY FAN SHALL BE DE-ENERGIZED.

3 FAN COIL CONTROL FLOOR MOUNTED HEATING/COOLING - FCU
NO SCALE



SEQUENCE OF OPERATION:

THE CABINET HEATER SHALL BE FURNISHED WITH A UNIT MOUNTED FAN SPEED SELECTOR SWITCH (OFF-HIGH-MED-LOW). THE UNIT SHALL MAINTAIN A SPACE TEMPERATURE OF NO MORE THAN 60°F.

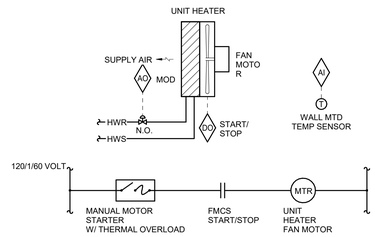
WHEN THE OUTDOOR AIR TEMPERATURE IS ABOVE 45°F, THE CONTROL VALVE SHALL BE CLOSED AND THE FAN SHALL STOP.

WHEN THE OUTDOOR AIR TEMPERATURE IS BELOW 45°F, THE FMCS SHALL MODULATE THE CONTROL VALVE TO MAINTAIN SETPOINT AND THE FAN SHALL RUN CONTINUOUSLY.

ALARMS, INTERLOCKS & SAFETIES:

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

4 CABINET HEATER CONTROL - HYDRONIC
NO SCALE



SEQUENCE OF OPERATION:

WHEN THE OUTDOOR AIR TEMPERATURE IS ABOVE 40°F (ADJ.), TEMPERATURE SENSOR SHALL MODULATE THE CONTROL VALVE AND CYCLE THE UNIT FAN TOGETHER TO MAINTAIN A SPACE TEMPERATURE OF 70°F (ADJ.).

WHEN THE OUTDOOR AIR TEMPERATURE IS BELOW 40°F (ADJ.), TEMPERATURE SENSOR SHALL MODULATE THE CONTROL VALVE TO MAINTAIN A SPACE TEMPERATURE OF 70°F (ADJ.) AND THE UNIT FAN SHALL RUN CONTINUOUSLY.

IN LOCATIONS WITH MULTIPLE UNIT HEATERS, STAGE THE UNIT HEATERS ON/OFF BY SETTING INDIVIDUAL TEMPERATURE SENSORS 2°F APART.

ALARMS, INTERLOCKS & SAFETIES:

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

5 UNIT HEATER CONTROL - HYDRONIC
NO SCALE

NOTES:

1. TYPICAL FOR ALL UNIT HEATERS. REFER TO HEATING PLANS FOR LOCATIONS.

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REVISIONS

No.	Date	Revision / Issue

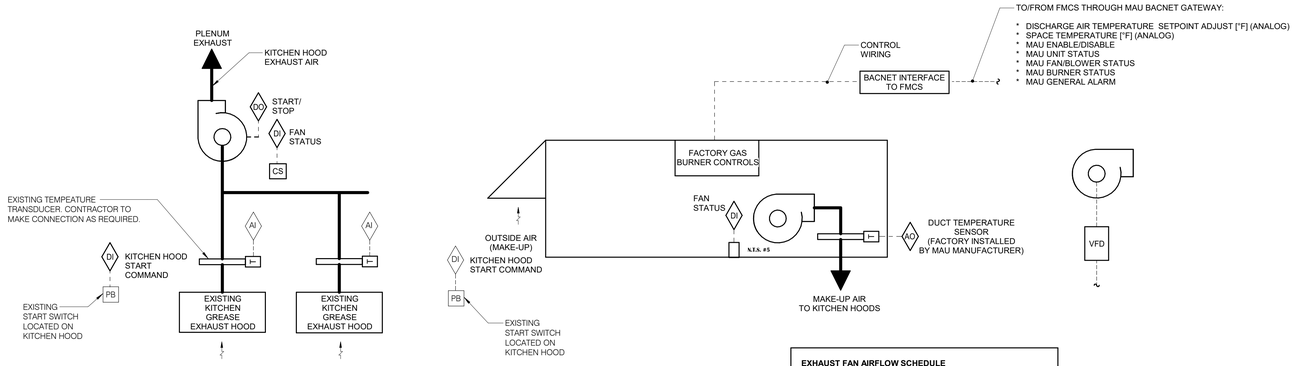
SHEET INFORMATION

Issue	BID DOCUMENTS
Date	JANUARY 28, 2022
Job Number	21002885.03
Drawn	M.T.
Checked	M.L.
Approved	Approver

SHEET TITLE
TERMINAL EQUIPMENT / MAU CONTROL DIAGRAMS

SCALE
Scale: 12" = 1'-0"

SHEET NUMBER
MC505



KITCHEN HOOD EXHAUST FAN OPERATION:
KITCHEN HOOD EXHAUST FANS SHALL START FROM EITHER OF THE TWO FOLLOWING INPUTS:
- SWITCH ON ANY EXISTING KITCHEN HOOD TURNED TO ON POSITION.
- ANY EXHAUST DUCT MOUNTED TEMP TRANSMITTER DETECTS AIR ABOVE SETPOINT (100°F ADJ.).
- ONCE A KITCHEN HOOD EXHAUST FAN IS ENERGIZED (VIA ANY INPUT) THE EXHAUST FAN SHALL CONTINUE TO OPERATE FOR A MIN. 20 MINUTE (ADJ.) TIME DURATION TO PREVENT SHORT CYCLING.

FMCS SHALL ENABLE THE INTERLOCKED MAU WHEN THE FAN IS ENABLED.

SEQUENCE OF OPERATION:
REFER TO SPECIFICATION SECTION 23 74 23.13 FOR A DESCRIPTION OF THE MAU AND CONTROLS PROVIDED BY THE MANUFACTURER. THE UNIT SHALL OPERATE BY PACKAGE CONTROLS TO MAINTAIN THE DISCHARGE AIR TEMPERATURE (DAT) OF 60°F (ADJ.) DAT SETPOINT SHALL BE SET BY THE FMCS OPERATOR WORK STATION. THE BAS SHALL PROVIDE A BURNER MODULATION SIGNAL (0-10V DC) BASED ON THE DIFFERENCE BETWEEN MEASURED DAT AND SETPOINT. THE MAU PACKAGE CONTROLS SHALL OPEN THE ASSOCIATED UNIT DAMPERS AND ENABLE HEATING BASED ON OUTSIDE AIR TEMPERATURE (E.G. T < 60°F).

ALARMS, INTERLOCKS AND SAFETIES:
AN ALARM SHALL BE GENERATED AT THE FMCS OPERATOR WORKSTATION IN THE EVENT OF THE FOLLOWING:
- THE FMCS COMMANDS THE EXHAUST FAN TO OPERATE AND THE CURRENT SENSING RELAY DETECTS INSUFFICIENT CURRENT DRAW.
- AN ALARM SHALL BE SENT TO THE FMCS WHEN THE MAU IS COMMANDED TO RUN AND THE CURRENT STATUS SWITCH INDICATES INSUFFICIENT CURRENT.
- WHEN THE FIRE ALARM CONTROL PANEL INDICATES AN ALARM CONDITION THE EXHAUST FAN SHALL BE SHUT DOWN.
- THE MAU SHALL PROVIDE A GENERAL ALARM TO THE FMCS OPERATOR WORK STATION.

SHUTDOWN:
- WHEN THE EF IS SHUTDOWN THE INTERLOCKED MAU SHALL BE SHUTDOWN.
- MAU PACKAGE CONTROLS SHALL CLOSE THE UNIT DAMPERS AND CLOSE THE HEATING GAS VALVES.

EXHAUST FAN AIRFLOW SCHEDULE

SYSTEM	EXHAUST CFM	MAU	MAU CFM	REMARKS
EXIST. EXH.FAN	5,500	MAU-1	4,900	NOTES 1,2

NOTES:
1. CORRESPONDING MAU SHALL BE INTERLOCKED TO OPERATE WHENEVER THE EXHAUST FAN IS TURNED ON.
2. EXHAUST EXCEEDS MAKE-UP TO MAINTAIN SPACE SLIGHTLY NEGATIVE.

MAU REPORT GENERATION:
DDC FMCS SHALL MONITOR THE FOLLOWING POINTS ON 10 MINUTE (ADJ.) INTERVALS WITHIN A SINGLE TREND. THE TREND SHALL RUN FOR A 14-DAY (ADJ.) DURATION AT WHICH POINT THE NEWEST VALUES SHALL AUTOMATICALLY OVERWRITE THE OLDEST VALUES:
- DATE
- TIME
- GLOBAL OUTSIDE AIR TEMPERATURE (°F)
- DISCHARGE AIR TEMP (DAT) (°F)
- DAT SETPOINT (°F)
- BLOWER STATUS (ON/OFF)
- BURNER STATUS (ON/OFF)

1 KITCHEN EXHAUST FAN AND MAKE-UP AIR UNIT CONTROL DIAGRAM
NO SCALE

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Job Number	21002885.03
Drawn	M.T.
Checked	M.L.
Approved	Approver

SHEET TITLE
KITCHEN EXHAUST MAU-1 CONTROL

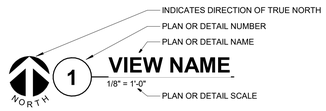
SCALE
Scale: 12" = 1'-0"

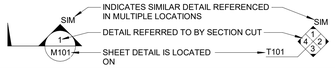
SHEET NUMBER
MC506

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.

ASSEMBLIES SHALL BE DESIGNATED AS ALL WALL HOUR FIRE BARRIER(S), UNLESS NOTED OTHERWISE ON THE PLANS. RATINGS WERE ACQUIRED FROM THE ARCHITECTURAL PLANS DATED 12/28/21.

1/2 HOUR FIRE WALL	
3/4 HOUR FIRE WALL	
1 HOUR FIRE WALL	

CONTRACTOR ABBREVIATION KEY

ABBR:	DESCRIPTION:
A.C.	ASBESTOS ABATEMENT CONTRACTOR
C.C.	CIVIL CONTRACTOR
E.C.	ELECTRICAL CONTRACTOR
G.C.	GENERAL CONTRACTOR
M.C.	MECHANICAL CONTRACTOR
P.C.	PLUMBING CONTRACTOR
T.C.C.	TEMPERATURE CONTROLS CONTRACTOR
V.C.	VENTILATION CONTRACTOR

CONTACT PERSONS:

DESCRIPTION:	PERSON:
PROJECT MANAGER	BRANDON PIERSON
MECHANICAL	MIKE TAUBE
ELECTRICAL	JEREMY VETTING

PLUMBING SYMBOL LIST

NOT ALL SYMBOLS MAY APPLY.

SYMBOL:	DESCRIPTION:
	PIPE CONTINUATION
	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
D	DRAIN
G	GAS

PLUMBING GENERAL NOTES:

1. THE SYMBOLS AND THE MATERIAL LIST ARE FOR THE CONVENIENCE OF THE CONTRACTOR. CONTRACTOR SHALL VERIFY QUANTITIES AND FURNISH ALL MATERIALS REQUIRED FOR FULLY OPERATIONAL SYSTEMS, WHETHER SPECIFIED OR NOT.
2. CATALOG NUMBERS SHALL NOT BE CONSIDERED COMPLETE, BUT ARE GIVEN AS AN AID TO THE CONTRACTOR AND TO INDICATE THE QUALITY REQUIRED. CONTRACTOR IS RESPONSIBLE FOR A COMPLETE DESCRIPTION OF MATERIAL ON THESE DRAWINGS AND IN THE SPECIFICATIONS BEFORE ORDERING. THE DESCRIPTION OF THE MATERIAL TAKES PRECEDENCE OVER THE CATALOG NUMBER. THE FIRST MANUFACTURER LISTED IS THE BASIS OF DESIGN.
3. CONTRACTOR SHALL VERIFY THAT FIXTURES SUPPLIED ARE APPROVED PER ALL APPLICABLE STATE, LOCAL AND GOVERNING AUTHORITIES.
4. ALL FIXTURES SHALL CONFORM TO FEDERAL ACT S.3874.
5. EXISTING CONDITIONS ON DEMOLITION PLANS ARE PROVIDED TO INDICATE THE GENERAL SCOPE OF ITEMS TO BE REMOVED. REFER TO SPECIFICATION SECTION 22 05 05 FOR ADDITIONAL DEMOLITION INFORMATION.

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, 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. 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.
5. EACH CONTRACTOR IS RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH ELECTRICAL CHANGES REQUIRED FOR EQUIPMENT PROPOSED THAT DIFFERS FROM THE BASIS OF DESIGN.
6. 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.
7. SEAL ALL FLOOR, WALL,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.
8. CAULK ALL PIPE 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.
9. 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.
10. 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.
11. MAINTAIN MINIMUM 3'-6" CLEARANCE IN FRONT OF ALL ELECTRICAL PANELS, MOTOR STARTERS, SWITCHES, AND DISCONNECTS.
12. 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 PHASING NOTES:

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

1. REFER TO GENERAL NOTATIONS ON PLAN WITH REGARDS TO PROJECT PHASING.
2. INTENT IS FOR THE STEAM SYSTEM THAT SERVES THE PERIMETER STEAM RADIATION AND ALSO STEAM HEAT FOR THE VENTILAITON UNITS TO REMAIN ACTIVE DURING FIRST WINTER OF CONSTRUCTION IN 2022.
3. REVIEW PROJECT PHASING NOTES TO COORDINATE DEMOLITION WORK, OUTAGES, ETC. WITH AFFECTED ADJACENT AREAS.
4. PROVIDE ANY TEMPORARY DUCTWORK, PIPING, SHUTOFF VALVES, ETC. AS NECESSARY TO KEEP ALL OCCUPIED SPACES OPERATION THROUGHOUT ALL PHASES OF THE PROJECT.
5. PHASE DEMOLITION WORK TO MINIMIZE DOWNTIME.

PLUMBING SLOPE REQUIREMENTS:

BASED ON PLUMBING CODE: [IPC-2018]

INTERIOR:	
SANITARY WASTE:	≤2-1/2"ø=1/4" PER FOOT ≥3"ø = 1/8" PER FOOT ≥8"ø = 1/16" PER FOOT
CONDENSATE AND INDIRECT DRAINAGE:	1/8" PER FOOT
DOMESTIC WATER:	NO SPECIFIC PITCH, PITCH TO FIXTURES

PLUMBING SHEET INDEX

P000	PLUMBING COVERSHEET
P201A	BASEMENT FLOOR - PLUMBING - AREA A
P201B	BASEMENT FLOOR - PLUMBING - AREA B & C
P202A	FIRST FLOOR - PLUMBING - AREA A
P202B	FIRST FLOOR - PLUMBING - AREA B & C
P202D	FIRST FLOOR - PLUMBING - AREA D
P202E	FIRST FLOOR - PLUMBING - AREA E & F
P203A	SECOND FLOOR - PLUMBING - AREA A
P203B	SECOND FLOOR - PLUMBING - AREA B & C
P203D	SECOND FLOOR - PLUMBING - AREA D
P203E	SECOND FLOOR - PLUMBING - AREA E & G
P204	ROOF - PLUMBING
GRAND TOTAL: 12	

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

SHEET TITLE

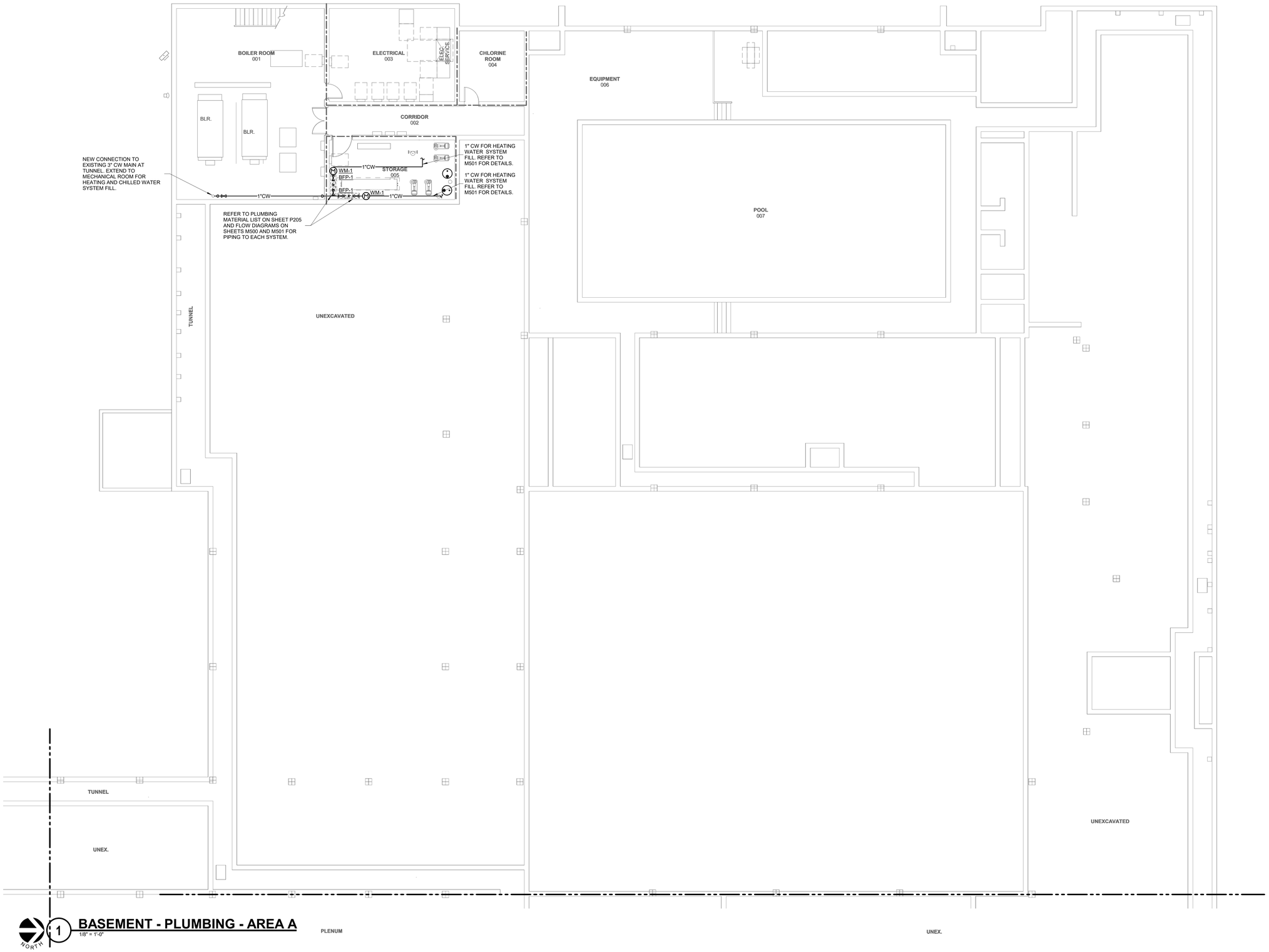
PLUMBING COVERSHEET

SCALE

Scale: **As indicated**

SHEET NUMBER

P000



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

21002885.03 1/27/2022 5:14:25 PM ESSER HVAC Improvements - Flinn Middle School

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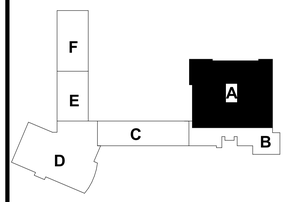

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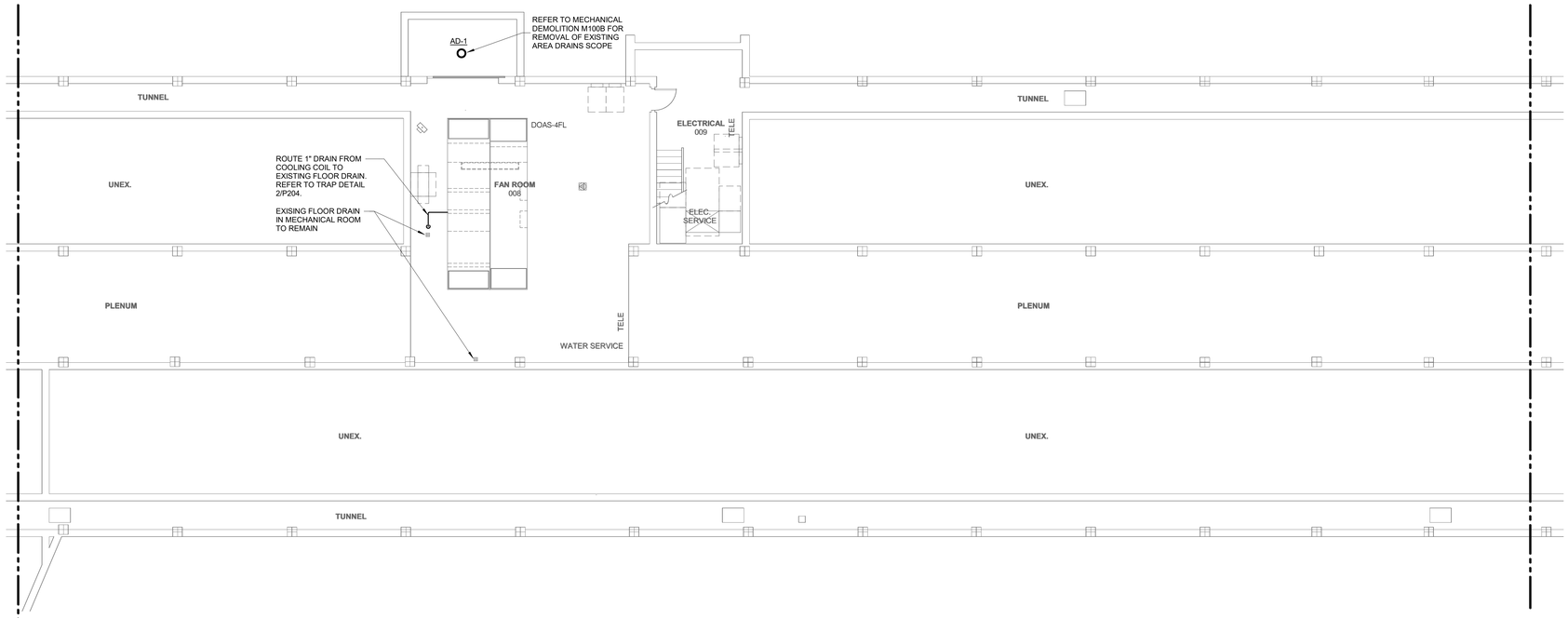
Drawn	Author
Checked	Checker
Approved	Approver

SHEET TITLE
BASEMENT FLOOR - PLUMBING - AREA A

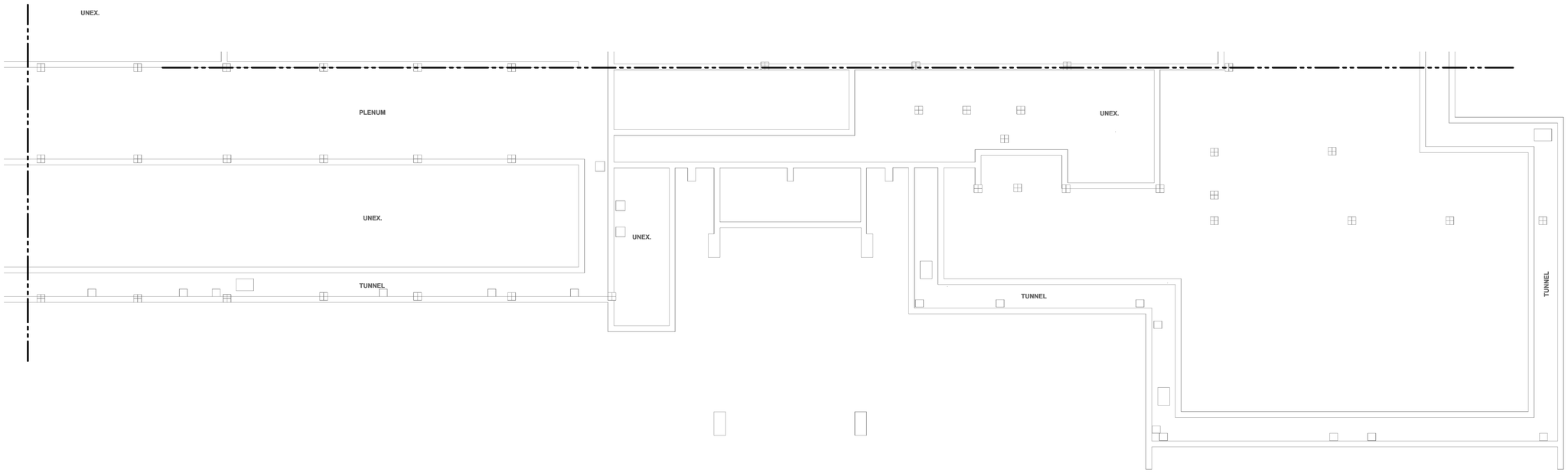
SCALE
Scale: As indicated

SHEET NUMBER
P201A



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

NORTH



2 **BASEMENT - PLUMBING - AREA B**
1/8" = 1'-0"

NORTH

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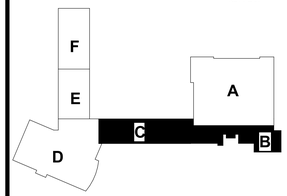
KEY PLAN



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REVISIONS

No.	Date	Revision / Issue

SHEET INFORMATION

Issue	**BID DOCUMENTS**
Date	**JANUARY 28, 2022**
Job Number	**21002885.03**
Drawn	**Author**
Checked	**Checker**
Approved	**Approver**

SHEET TITLE

BASEMENT FLOOR - PLUMBING - AREA B & C

SCALE

Scale: **As indicated**

SHEET NUMBER

P201B

21002885.03 1/27/2022 5:14:27 PM ESSER HVAC Improvements - Flinn Middle School

KEYNOTES: #

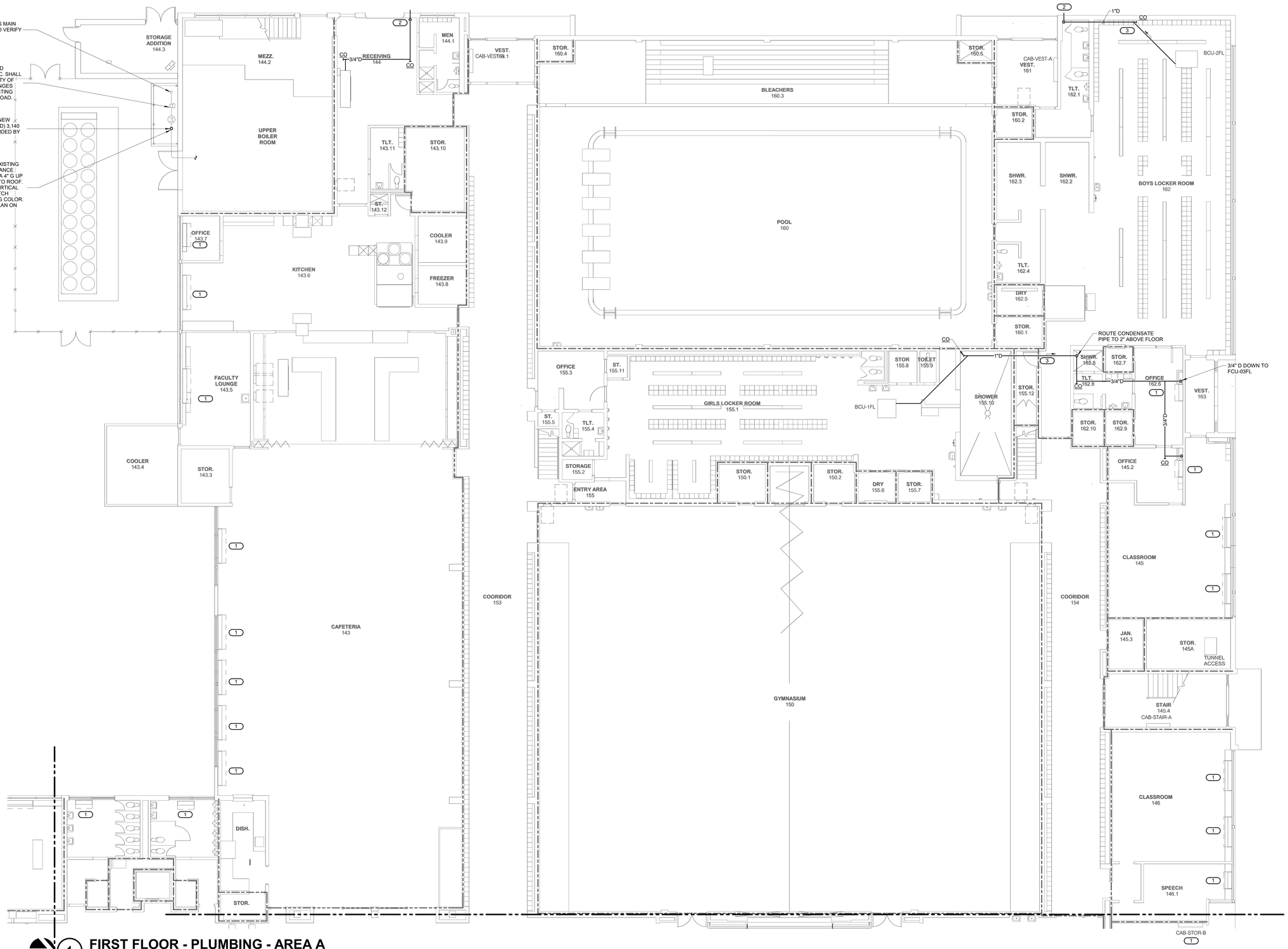
1. CONNECT A 3/4" CONDENSATE TO WALL MOUNTED FAN COIL UNIT CONDENSATE OUTLET AND ROUTE DIRECTLY THROUGH WALL. EXTEND PIPING 2' BEYOND WALL SURFACE. CONTRACTOR SHALL PROVIDE ADEQUATE CONDENSATE TRAP DEPTH INSIDE CABINET BEFORE ROUTING TO OUTDOORS. SEAL PENETRATION WATER TIGHT.
2. ROUTE 1" CONDENSATE DRAIN FROM BCU/FCU DOWN WALL AND /OR IN CHASE AND EXIT BUILDING SIDE WALL 6" ABOVE GRADE. SEAL PENETRATION WATER TIGHT.
3. PROVIDE AN ALUMINUM PIPE COVER OVER ALL EXPOSED PIPING FROM UNIT TO EXIT PENETRATION. REFER TO SPECIFICATIONS FOR MATERIAL.

HIGH PRESSURE GAS MAIN BY UTILITY. NICOR TO VERIFY SERVICE PRESSURE.

GAS REGULATOR AND METER BY NICOR. P.C. SHALL CONFIRM WITH UTILITY OF ANY REQUIRED CHANGES BASE ON TOTAL EXISTING AND NEW CFH GAS LOAD.

TOTAL GAS LOAD (NEW BRANCH MAIN LOAD) 3,140 CFH @ 4" PSI PROVIDED BY NICOR

PROVIDE A NEW CONNECTION TO EXISTING GAS MAIN AT ENTRANCE LOCATION. ROUTE A 4" G UP SIDE OF BUILDING TO ROOF. PAINT EXPOSED VERTICAL GAS PIPING TO MATCH EXTERIOR BUILDING COLOR. REFER TO ROOF PLAN ON SHEET P203 FOR CONTINUATION



1 FIRST FLOOR - PLUMBING - AREA A

1/8" = 1'-0"

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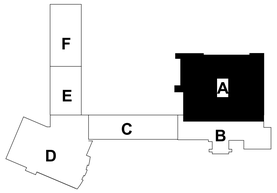
KEY PLAN



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Approved	Approver

SHEET TITLE

FIRST FLOOR - PLUMBING - AREA A

SCALE

Scale: As indicated

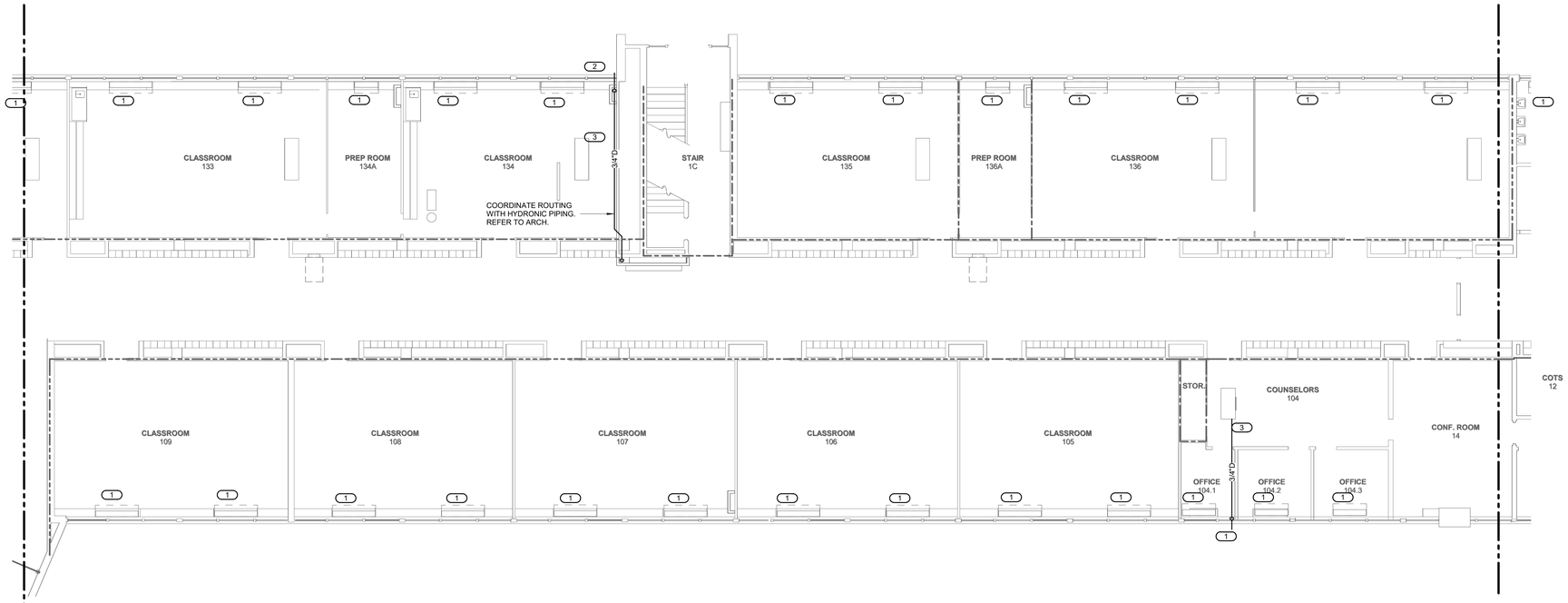
SHEET NUMBER

P202A

21002885.03 1/27/2022 5:14:30 PM ESSER HVAC Improvements - Flinn Middle School

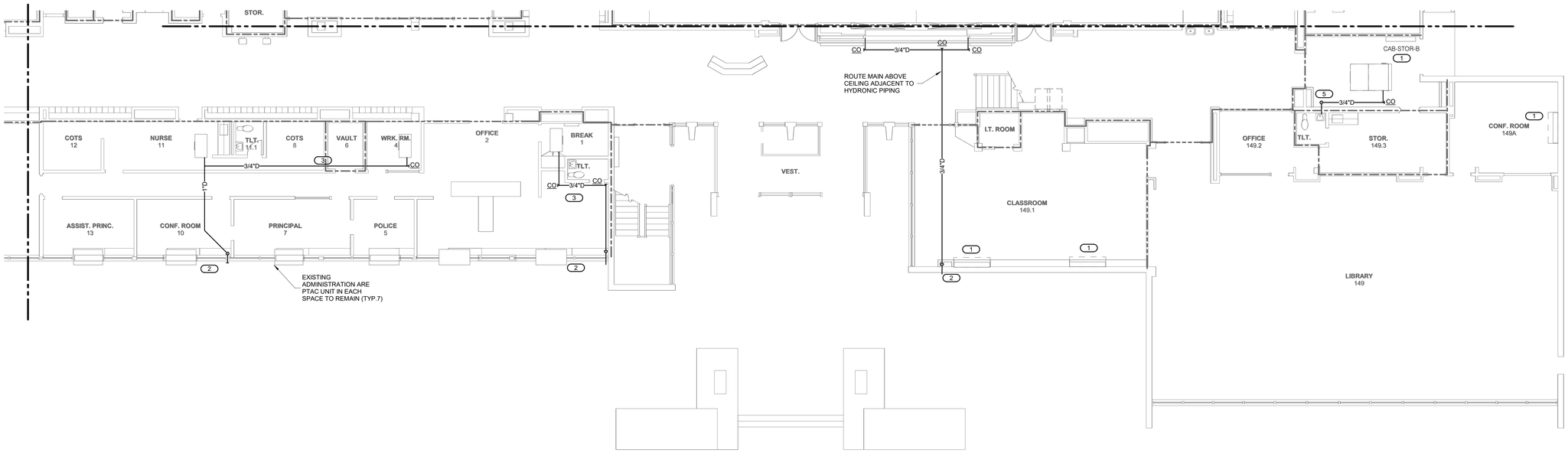
KEYNOTES: (#)

1. CONNECT A 3/4" CONDENSATE TO WALL MOUNTED FAN COIL UNIT CONDENSATE OUTLET AND ROUTE DIRECTLY THROUGH WALL. EXTEND PIPING 2" BEYOND WALL SURFACE. CONTRACTOR SHALL PROVIDE ADEQUATE CONDENSATE TRAP DEPTH INSIDE CABINET BEFORE ROUTING TO OUTDOORS. SEAL PENETRATION WATER TIGHT.
2. ROUTE 1" CONDENSATE DRAIN FROM BCU/FCU DOWN WALL AND/OR IN CHASE AND EXIT BUILDING SIDE WALL 6" ABOVE GRADE. SEAL PENETRATION WATER TIGHT.
3. PROVIDE AN ALUMINUM PIPE COVER OVER ALL EXPOSED PIPING FROM UNIT TO EXIT PENETRATION. REFER TO SPECIFICATIONS FOR MATERIAL.
4. ADMINISTRATION OFFICE FCU AND ALL ASSCIATED PIPING SHALL BE PART OF ALTERNATE BID #1. FOR BASE BID EXISTING PTAC UNITS REMAIN.
5. ROUTE CONDENSATE DOWN AND THROUGH WALL AND CONNECT BELOW COUNTER. PROVIDE NEW SINK TAILPIECE WITH SIDE INLET CONNECTION UPSTREAM OF EXISTING P-TRAP.



1 FIRST FLOOR - PLUMBING - AREA C

1/8" = 1'-0"



2 FIRST FLOOR - PLUMBING - AREA B

1/8" = 1'-0"

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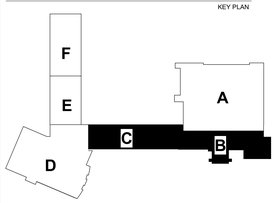
KEY PLAN



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SHEET TITLE

FIRST FLOOR - PLUMBING - AREA B & C

SCALE

Scale: **As indicated**

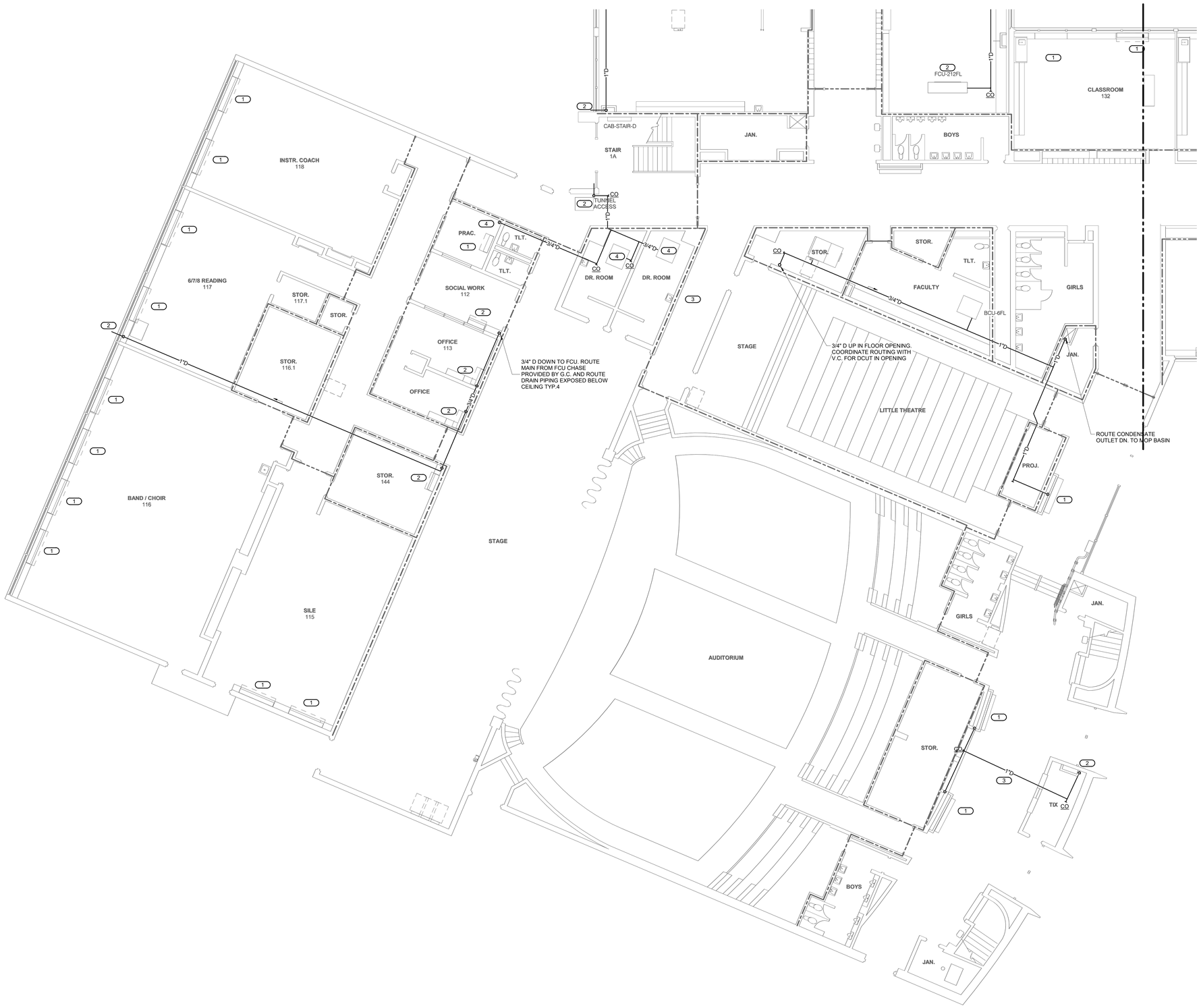
SHEET NUMBER

P202B

21002885.03 1/27/2022 5:14:34 PM ESSER HVAC Improvements - Flinn Middle School

KEYNOTES: #

1. CONNECT A 3/4" CONDENSATE TO WALL MOUNTED FAN COIL UNIT CONDENSATE OUTLET AND ROUTE DIRECTLY THROUGH WALL. EXTEND PIPING 2" BEYOND WALL SURFACE. CONTRACTOR SHALL PROVIDE ADEQUATE CONDENSATE TRAP DEPTH INSIDE CABINET BEFORE ROUTING TO OUTDOORS. SEAL PENETRATION WATER TIGHT.
2. ROUTE 1" CONDENSATE DRAIN FROM BCU/FCU DOWN WALL AND/OR IN CHASE AND EXIT BUILDING SIDE WALL 6" ABOVE GRADE. SEAL PENETRATION WATER TIGHT.
3. PROVIDE AN ALUMINUM PIPE COVER OVER ALL EXPOSED PIPING FROM UNIT TO EXIT PENETRATION. REFER TO SPECIFICATIONS FOR MATERIAL.
4. PUMPED CONDENDATE FROM EITHER FLOOR OR CEILING MOUNTED FCU/BCU. ROUTED AS INDICATED ON PLAN. COORDINATE ROUTING WIITH G.C. AND CEILING DEMOLITION SCOPE WHERE APPLICABLE.



NORTH

1 FIRST FLOOR - PLUMBING - AREA D

1/8" = 1'-0"

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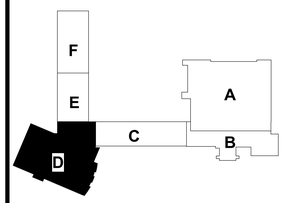
KEY PLAN



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Drawn	Author
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Approved	Approver

SHEET TITLE

FIRST FLOOR - PLUMBING - AREA D

SCALE

Scale: As indicated

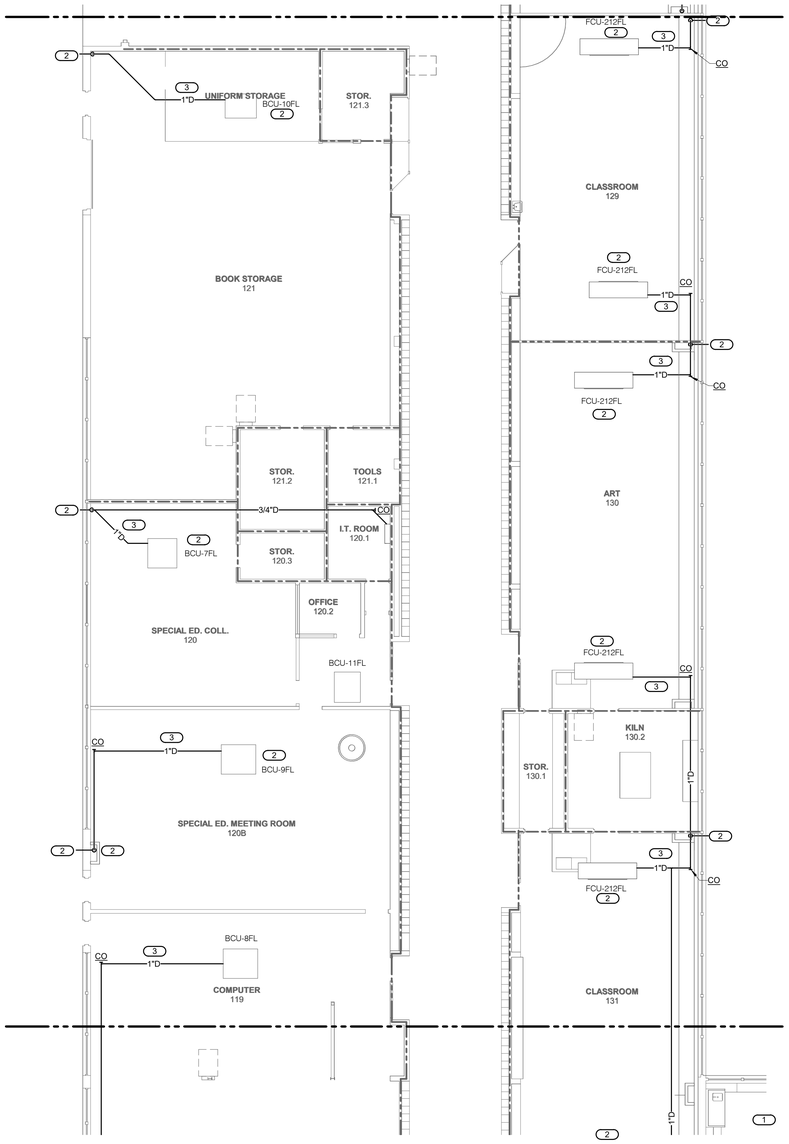
SHEET NUMBER

P202D

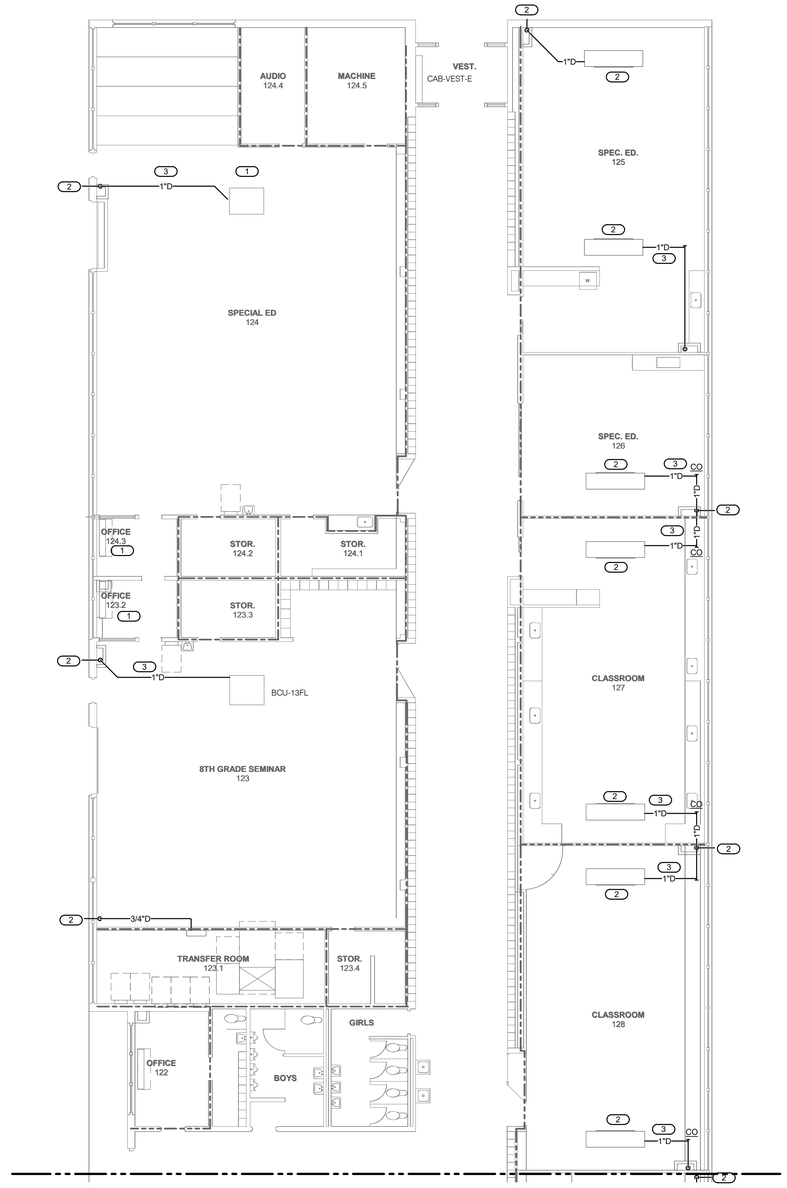
21002885.03 1/27/2022 5:14:37 PM ESSER HVAC Improvements - Flinn Middle School

KEYNOTES: (#)

1. CONNECT A 3/4" CONDENSATE TO WALL MOUNTED FAN COIL UNIT CONDENSATE OUTLET AND ROUTE DIRECTLY THROUGH WALL. EXTEND PIPING 2" BEYOND WALL SURFACE. CONTRACTOR SHALL PROVIDE ADEQUATE CONDENSATE TRAP DEPTH INSIDE CABINET BEFORE ROUTING TO OUTDOORS. SEAL PENETRATION WATER TIGHT.
2. ROUTE 1" CONDENSATE DRAIN FROM BCU/FCU DOWN WALL AND/OR IN CHASE AND EXIT BUILDING SIDE WALL 6" ABOVE GRADE. SEAL PENETRATION WATER TIGHT.
3. PROVIDE AN ALUMINUM PIPE COVER OVER ALL EXPOSED PIPING FROM UNIT TO EXIT PENETRATION. REFER TO SPECIFICATIONS FOR MATERIAL.



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



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

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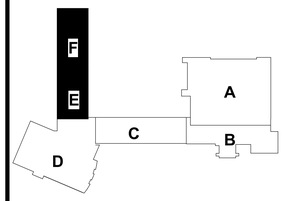
KEY PLAN



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Drawn	Author
Checked	Checker
Approved	Approver

SHEET TITLE

FIRST FLOOR - PLUMBING - AREA E & F

SCALE

Scale: As indicated

SHEET NUMBER

P202E

KEYNOTES: #

1. CONNECT A 3/4" CONDENSATE TO WALL MOUNTED FAN COIL UNIT CONDENSATE OUTLET AND ROUTE DIRECTLY THROUGH WALL. EXTEND PIPING 2" BEYOND WALL SURFACE. CONTRACTOR SHALL PROVIDE ADEQUATE CONDENSATE TRAP DEPTH INSIDE CABINET BEFORE ROUTING TO OUTDOORS. SEAL PENETRATION WATER TIGHT.

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

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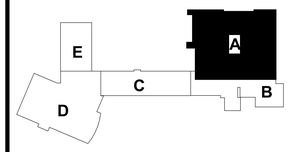
KEY PLAN



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Approved	**Approver**

SHEET TITLE

SECOND FLOOR - PLUMBING - AREA A

SCALE

Scale: **As indicated**

SHEET NUMBER

P203A

21002885.03 1/27/2022 5:14:43 PM ESSER HVAC Improvements - Flinn Middle School

KEYNOTES: (#)

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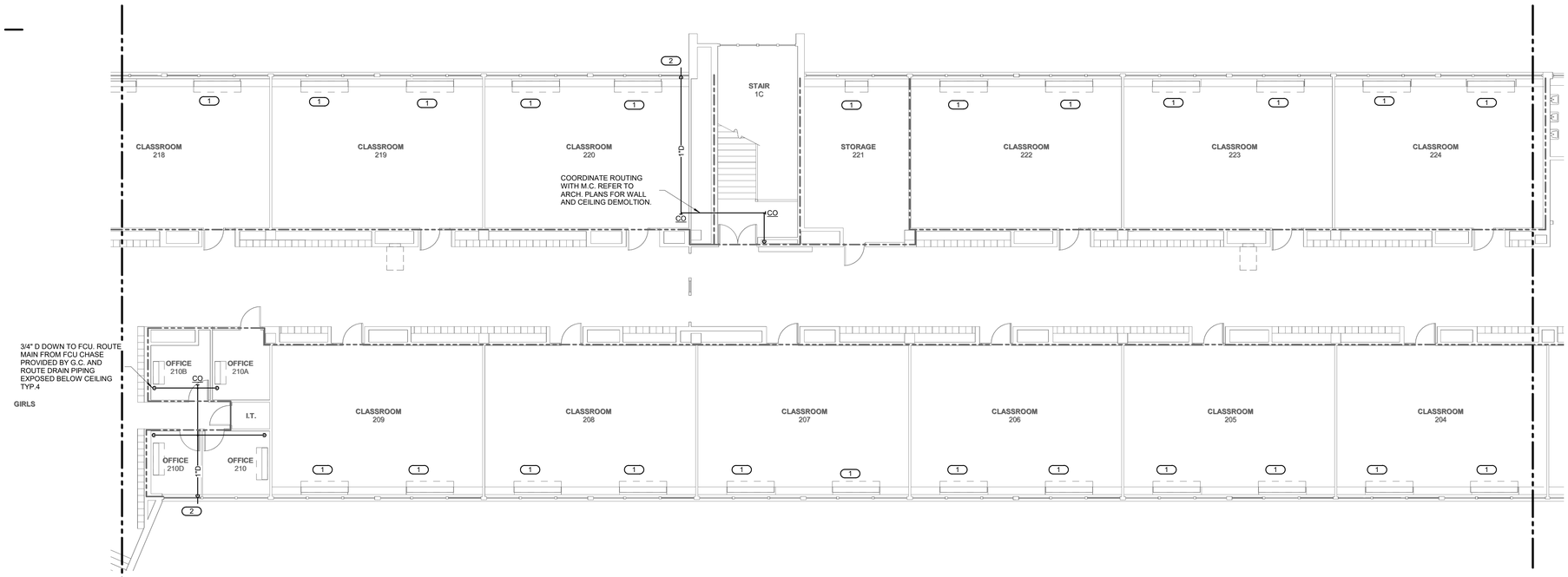
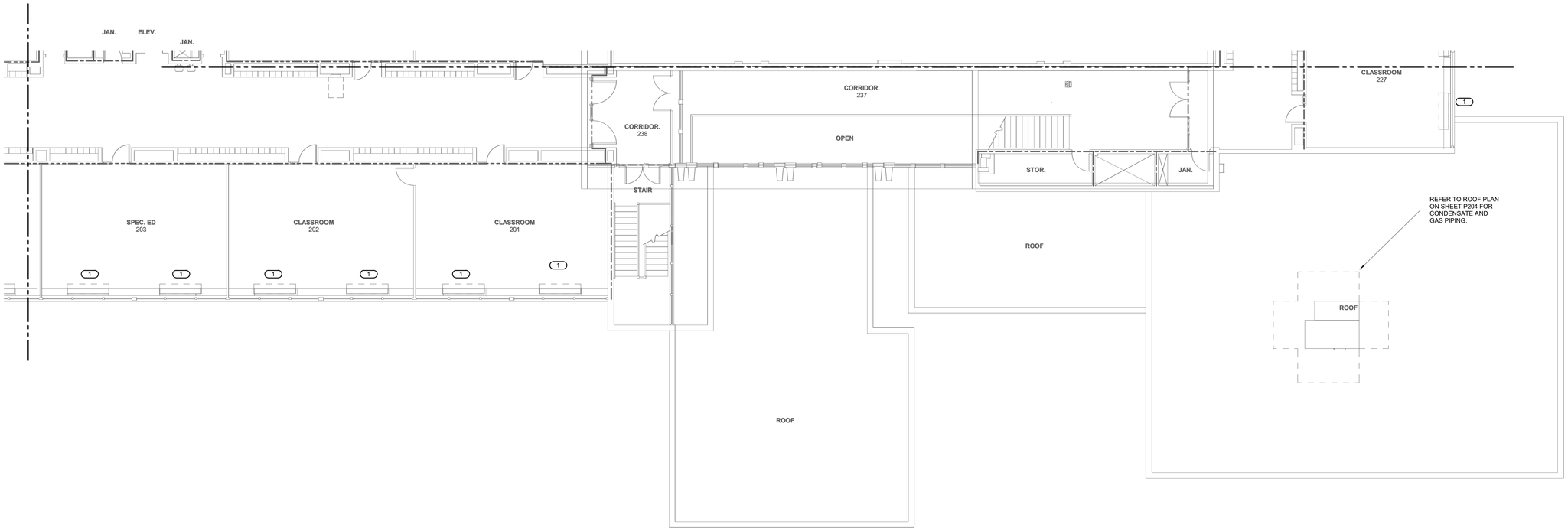
2. ROUTE 1" CONDENSATE DRAIN FROM BCU/FCU DOWN WALL AND/OR IN CHASE AND EXIT BUILDING SIDE WALL 6" ABOVE GRADE. SEAL PENETRATION WATER TIGHT.



1 SECOND FLOOR - PLUMBING - AREA C

1/8" = 1'-0"

NORTH



2 SECOND FLOOR - PLUMBING - AREA B

1/8" = 1'-0"

NORTH

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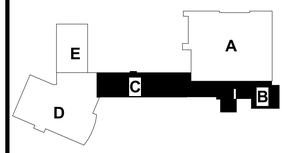

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SHEET TITLE

SECOND FLOOR - PLUMBING - AREA B & C

SCALE

Scale: As indicated

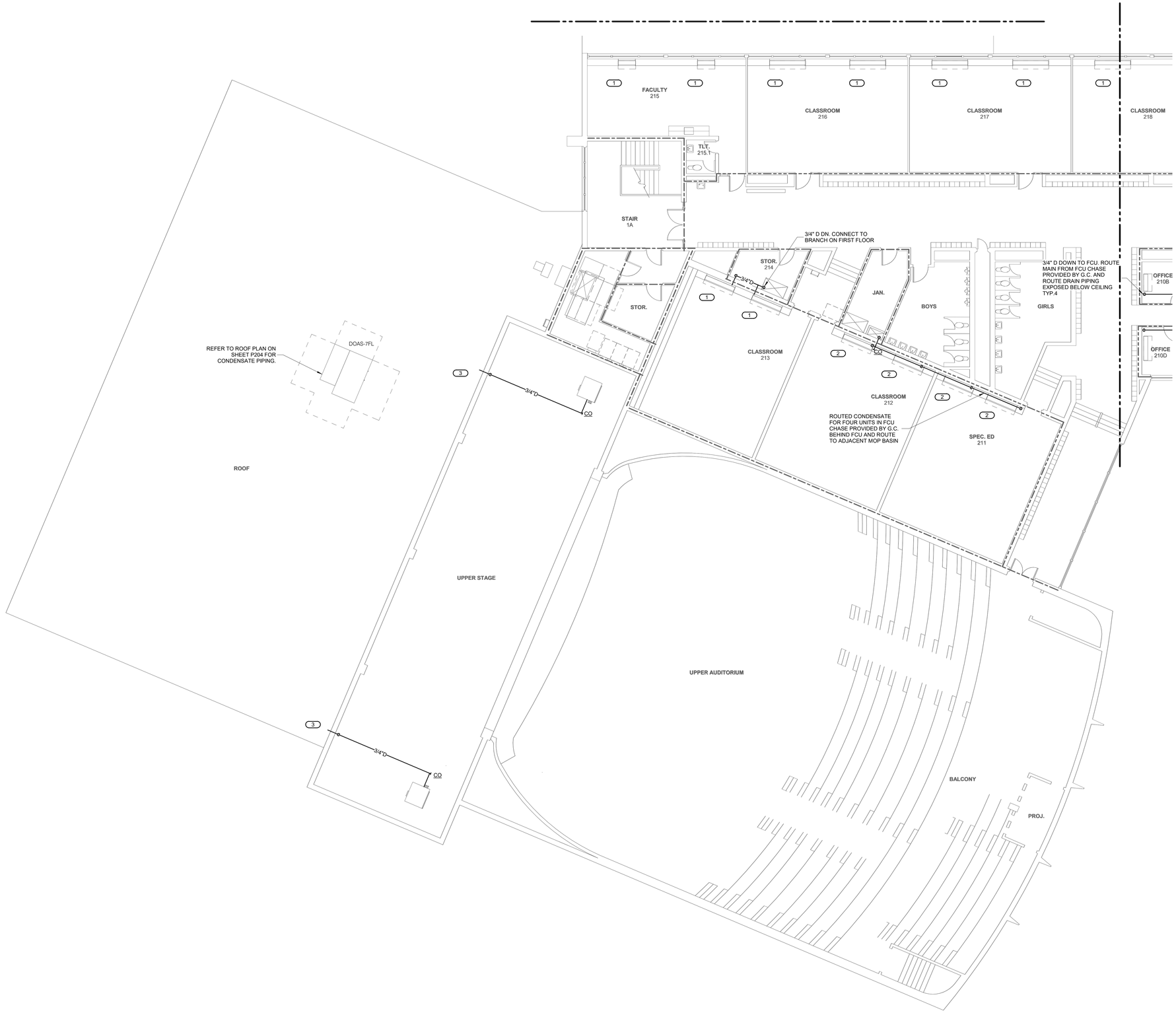
SHEET NUMBER

P203B

21002885.03 1/27/2022 5:14:46 PM ESSER HVAC Improvements - Flinn Middle School

KEYNOTES: (#)

1. CONNECT A 3/4" CONDENSATE TO WALL MOUNTED FAN COIL UNIT CONDENSATE OUTLET AND ROUTE DIRECTLY THROUGH WALL. EXTEND PIPING 2" BEYOND WALL SURFACE. CONTRACTOR SHALL PROVIDE ADEQUATE CONDENSATE TRAP DEPTH INSIDE CABINET BEFORE ROUTING TO OUTDOORS. SEAL PENETRATION WATER TIGHT.
2. 3/4" CONDENSATE ROUTED DOWN THROUGH FLOOR TO CONDENSATE DRAINS BELOW. REFER TO SHEET P202D.
3. ROUTED 3/4" DRAIN FROM STAGE BCU PLENUM DN. WALL ON INSIDE OF BUILDING AND PENETRATE EXTERIOR WALL 6" ABOVE LOWER ROOF AREA. SEAL PENETRATION WATER TIGHT.



1 SECOND FLOOR - PLUMBING - AREA D

1/8" = 1'-0"

NORTH

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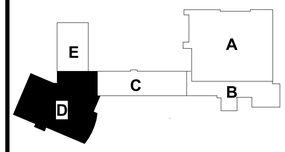

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Approved	**Approver**

SHEET TITLE

SECOND FLOOR - PLUMBING - AREA D

SCALE

Scale: **As indicated**

SHEET NUMBER

P203D

21002885.03 1/27/2022 5:14:48 PM ESSER HVAC Improvements - Flinn Middle School

KEYNOTES: #

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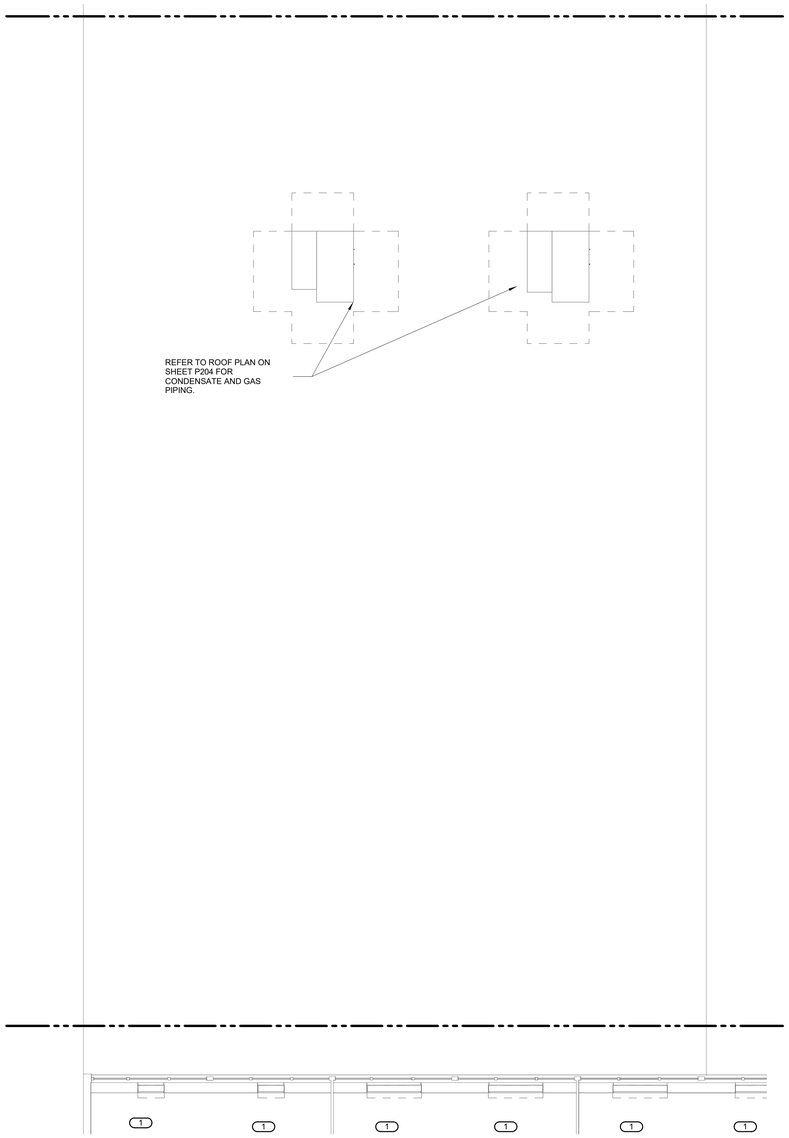
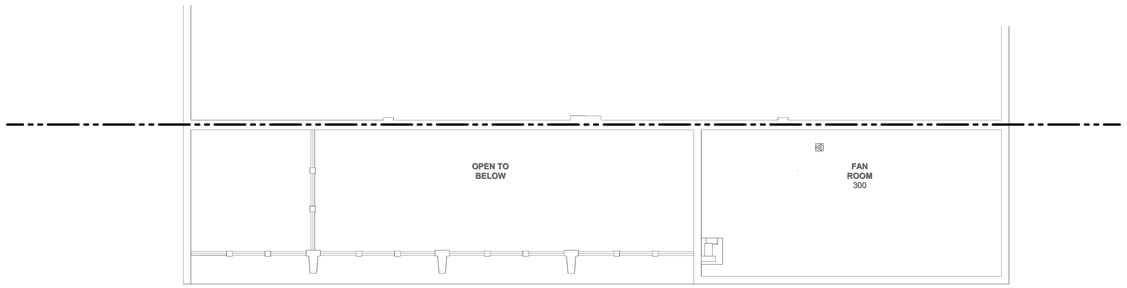


NORTH 1 **SECOND FLOOR - PLUMBING - AREA E**
1/8" = 1'-0"



NORTH 2 **SECOND FLOOR FAN ROOM - PLUMBING**
1/8" = 1'-0"

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ROCKFORD PUBLIC SCHOOLS

ESSER HVAC Improvements - Flinn Middle School

2525 Ohio Pkwy, Rockford, IL 61108

Rockford Public Schools #205

CONSULTANT

Saavedra Group Architects
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504 North Church Street • Rockford, Illinois 61103
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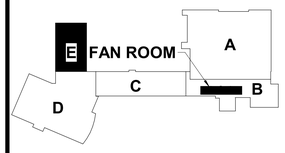
KEY PLAN



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REFERENCE SCALE IN INCHES
0 1 2

REVISIONS

No.	Date	Revision / Issue

SHEET INFORMATION

Issue	**BID DOCUMENTS**
Date	**JANUARY 28, 2022**
Job Number	**21002885.03**
Drawn	**Author**
Checked	**Checker**
Approved	**Approver**

SHEET TITLE

SECOND FLOOR - PLUMBING - AREA E & G

SCALE

Scale: **As indicated**

SHEET NUMBER

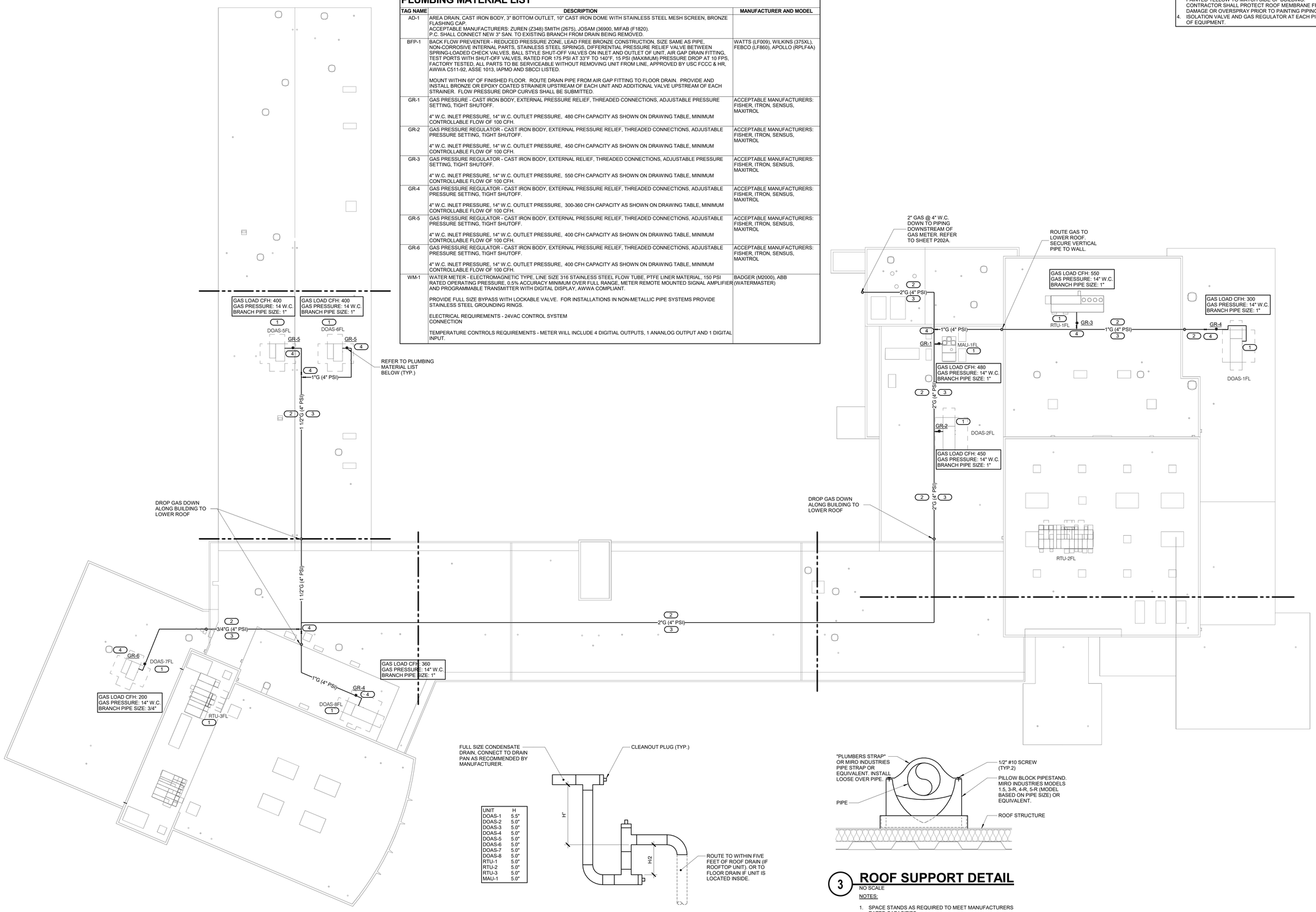
P203E

KEYNOTES:

1. ROUTE 3/4" CONDENSATE FROM DOAS/RTU CONNECTION INDEPENDENTLY TO WITHIN 5'-0" OF NEAREST ROOF DRAIN. INSTALL PIPE ROOF SUPPORT FOR ALL HORIZONTAL PIPING. REFER TO DETAIL 3/P204.
2. REFER TO PIPE ROOF SUPPORT DETAIL 3/P204.
3. PAINT ALL HORIZONTAL GAS PIPING ON THE ROOF TO MATCH WHITE ROOF MEMBRANE. VERTICAL PIPING FROM MAIN CONNECTION AT METER TO ROOF EDGE SHALL BE PAINTED YELLOW TO MATCH SIDE OF BUILDING. CONTRACTOR SHALL PROTECT ROOF MEMBRANE FROM DAMAGE OR OVERSPRAY PRIOR TO PAINTING PIPING.
4. ISOLATION VALVE AND GAS REGULATOR AT EACH PIECE OF EQUIPMENT.

PLUMBING MATERIAL LIST

TAG NAME	DESCRIPTION	MANUFACTURER AND MODEL
AD-1	AREA DRAIN, CAST IRON BODY, 3" BOTTOM OUTLET, 10" CAST IRON DOME WITH STAINLESS STEEL MESH SCREEN, BRONZE FLASHING CAP. ACCEPTABLE MANUFACTURERS: ZUREN (Z348) SMITH (2675), JOSAM (36900, MIFAB (F1820). P.C. SHALL CONNECT NEW 3" SAN. TO EXISTING BRANCH FROM DRAIN BEING REMOVED.	
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.	WATTS (LF009), WILKINS (375XL), FEBCO (LF860), APOLLO (RPLF4A)
GR-1	GAS PRESSURE - CAST IRON BODY, EXTERNAL PRESSURE RELIEF, THREADED CONNECTIONS, ADJUSTABLE PRESSURE SETTING, TIGHT SHUTOFF. 4" W.C. INLET PRESSURE, 14" W.C. OUTLET PRESSURE, 480 CFH CAPACITY AS SHOWN ON DRAWING TABLE, MINIMUM CONTROLLABLE FLOW OF 100 CFH.	ACCEPTABLE MANUFACTURERS: FISHER, ITRON, SENSUS, MAXITROL
GR-2	GAS PRESSURE REGULATOR - CAST IRON BODY, EXTERNAL PRESSURE RELIEF, THREADED CONNECTIONS, ADJUSTABLE PRESSURE SETTING, TIGHT SHUTOFF. 4" W.C. INLET PRESSURE, 14" W.C. OUTLET PRESSURE, 450 CFH CAPACITY AS SHOWN ON DRAWING TABLE, MINIMUM CONTROLLABLE FLOW OF 100 CFH.	ACCEPTABLE MANUFACTURERS: FISHER, ITRON, SENSUS, MAXITROL
GR-3	GAS PRESSURE REGULATOR - CAST IRON BODY, EXTERNAL RELIEF, THREADED CONNECTIONS, ADJUSTABLE PRESSURE SETTING, TIGHT SHUTOFF. 4" W.C. INLET PRESSURE, 14" W.C. OUTLET PRESSURE, 550 CFH CAPACITY AS SHOWN ON DRAWING TABLE, MINIMUM CONTROLLABLE FLOW OF 100 CFH.	ACCEPTABLE MANUFACTURERS: FISHER, ITRON, SENSUS, MAXITROL
GR-4	GAS PRESSURE REGULATOR - CAST IRON BODY, EXTERNAL PRESSURE RELIEF, THREADED CONNECTIONS, ADJUSTABLE PRESSURE SETTING, TIGHT SHUTOFF. 4" W.C. INLET PRESSURE, 14" W.C. OUTLET PRESSURE, 300-360 CFH CAPACITY AS SHOWN ON DRAWING TABLE, MINIMUM CONTROLLABLE FLOW OF 100 CFH.	ACCEPTABLE MANUFACTURERS: FISHER, ITRON, SENSUS, MAXITROL
GR-5	GAS PRESSURE REGULATOR - CAST IRON BODY, EXTERNAL PRESSURE RELIEF, THREADED CONNECTIONS, ADJUSTABLE PRESSURE SETTING, TIGHT SHUTOFF. 4" W.C. INLET PRESSURE, 14" W.C. OUTLET PRESSURE, 400 CFH CAPACITY AS SHOWN ON DRAWING TABLE, MINIMUM CONTROLLABLE FLOW OF 100 CFH.	ACCEPTABLE MANUFACTURERS: FISHER, ITRON, SENSUS, MAXITROL
GR-6	GAS PRESSURE REGULATOR - CAST IRON BODY, EXTERNAL PRESSURE RELIEF, THREADED CONNECTIONS, ADJUSTABLE PRESSURE SETTING, TIGHT SHUTOFF. 4" W.C. INLET PRESSURE, 14" W.C. OUTLET PRESSURE, 400 CFH CAPACITY AS SHOWN ON DRAWING TABLE, MINIMUM CONTROLLABLE FLOW OF 100 CFH.	ACCEPTABLE MANUFACTURERS: FISHER, 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 DIGITIAL OUTPUTS, 1 ANANLOG OUTPUT AND 1 DIGITAL INPUT.	BADGER (M2000), ABB (WATERMASTER)



1 **ROOF PLAN - PLUMBING**
1" = 20'-0"

UNIT	H
DOAS-1	5.5"
DOAS-2	5.0"
DOAS-3	5.0"
DOAS-4	5.0"
DOAS-5	5.0"
DOAS-6	5.0"
DOAS-7	5.0"
DOAS-8	5.0"
RTU-1	5.0"
RTU-2	5.0"
RTU-3	5.0"
MAU-1	5.0"

2 **CONDENSATE TRAP DETAIL (DRAW-THROUGH)**
NO SCALE

3 **ROOF SUPPORT DETAIL**
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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REVISIONS

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Job Number	21002885.03
Drawn	Author
Checked	Checker
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SHEET TITLE
ROOF - PLUMBING

SCALE
Scale: As indicated

SHEET NUMBER
P204

21002885.03 1/27/2022 5:14:53 PM ESSER HVAC Improvements - Flinn Middle School

GENERAL NOTES - LAYOUT

1. THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATIONS AND ELEVATIONS OF EXISTING UTILITIES AS SHOWN ON THESE PLANS ARE BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES AND, WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THIS INFORMATION IS NOT TO BE CONSIDERED EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE APPROPRIATE UTILITY COMPANY AT LEAST 48 HOURS PRIOR TO ANY EXCAVATION TO REQUEST EXACT FIELD LOCATION OF UTILITIES. JULIE (800) 892–0123.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION OF UTILITY PLACEMENTS/RELOCATIONS WITH THE APPROPRIATE UTILITY COMPANIES.
3. ALL WORK SHALL BE DONE IN ACCORDANCE WITH ROCKFORD PUBLIC SCHOOL DISTRICT 205 AND THE REQUIREMENTS OF THE CITY OF ROCKFORD.
4. IF CONTRACTOR FINDS ANY DISCREPANCY BETWEEN THE ARCHITECTURAL PLANS AND THE CIVIL PLANS HE MUST NOTIFY ENGINEER PRIOR TO THE CONSTRUCTION OF SAID AREA.
5. ALL EXISTING ITEMS NOT NOTED TO BE REMOVED ARE TO REMAIN.
6. FIELD VERIFY HORIZONTAL AND VERTICAL CONTROL PRIOR TO COMMENCING OF WORK. IF ANY DISCREPANCIES ARE FOUND, NOTIFY THE ENGINEER. ADJUSTMENTS OR CORRECTIONS SHALL BE MADE BY THE ENGINEER.
7. REFER TO ARCHITECTURAL PLANS FOR EXACT BUILDING DIMENSIONS.
8. ALL DIMENSIONS ARE FROM BACK OF CURB UNLESS OTHERWISE NOTED.
9. ALL CURB RADII ARE TO BACK OF CURB.
10. SAW CUT PAVEMENT/CURB AT LIMITS OF ALL PAVEMENT/CURB REMOVAL.
11. THE CONTRACTOR SHALL SAW CUT THE EXISTING CURB HEAD TO FORM A DEPRESSION AT THE PROPOSED DRIVEWAY ENTRANCE.
12. ALL SIDEWALK POURED THROUGH DRIVEWAYS SHALL BE 6" THICK.
13. INSTALL 1/2" EXPANSION JOINT WITH FILLER AND SEALANT TO MATCH CONCRETE BETWEEN CONCRETE WALKS, PADS, FOUNDATIONS, WALLS, AND OTHER STRUCTURES. SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION.
14. ALL CURB RAMPS FOR SIDEWALK SHALL BE CONSTRUCTED ACCORDING TO I.D.O.T. STANDARD 424001, 421011, 424016,LATEST REVISION, UNLESS OTHERWISE SPECIFIED.
15. DISTANCE BETWEEN EXPANSION JOINTS SHALL NOT EXCEED 30 L.F. ON LINEAR CONCRETE WALKS OR 200 S.F. ON EXTERIOR SLABS. DISTANCE BETWEEN SCORE JOINTS SHALL NOT EXCEED 6 L.F. ON LINEAR CONCRETE WALKS.
16. SIGN CONSTRUCTION AND PAVEMENT MARKINGS SHALL CONFORM TO THE REQUIREMENTS OF THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" ,CURRENT EDITION.
17. ALL TRAFFIC SIGNS SHALL MEET REQUIREMENTS OF I.D.O.T. SECTION 720, 724, 729, 730 AND STANDARDS INCLUDED IN THE PLANS.
18. PAVEMENT MARKING PAINT SHALL BE AS MANUFACTURED BY PRATT & LAMBERT OR EQUAL. COLOR: WHITE. ALL PAVEMENT MARKINGS SHALL BE 4" WIDE. ALL DIAGONAL STRIPING AS SHOWN SHALL BE 24" ON–CENTER AT 45° TO PARKING AGAINST VEHICULAR FLOW DIRECTION.
19. ALL WORK WITHIN COUNTY RIGHT–OF–WAY SHALL BE OBSERVED BY REPRESENTATIVES OF THE COUNTY, INCLUDING TEST ROLLING OF THE SITE ENTRANCE. CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING THE COUNTY PRIOR TO SAID WORK.
20. CONTRACTOR SHALL KEEP THE ADJACENT PUBLIC ROADS FREE OF DIRT AND DEBRI DUE TO CONSTRUCTION AT ALL TIMES.
21. CONTRACTOR SHALL PROVIDE FOR AND USE EXCLUSIVELY A MIN. 20' WIDE AGGREGATE CONSTRUCTION ACCESS ROAD OFF OF POPLAR GROVE ROAD AS SHOWN IN PLANS. THIS ROAD SHALL BE MAINTAINED AND REMOVED ONLY AFTER ALL HEAVY EQUIPMENT ARE NO LONGER NEEDED ON SITE AND AT THE LATEST PRIOR TO FINAL LANDSCAPING.
22. WEIGHT LIMITS ON COUNTY AND TOWNSHIP ROADS ARE: POPLAR GROVE ROAD (73,280 LBS.), NORTH BOONE SCHOOL ROAD (73,280 LBS.).
23. CONTRACTOR SHALL KEEP ALL ACTIVITY AND EQUIPMENT OUTSIDE OF PROPOSED SEPTIC FIELD AREA. THE SOIL IN THIS AREA SHALL NOT BE DISTRUBED. CONTRACTOR SHALL PLACE CONSTRUCTION LIMITS FENCING TO PROTECT AREA.
24. ALL TRUNCATED DOMES FOR THE ADA SIDEWALK RAMPS SHALL BE RED FIBERGLASS TRUNCATED DOMES AS MANUFACTURED BY ADA SOLUTIONS OR APPROVED EQUAL.
25. REFER ELECTRICAL SITE PLAN FOR ELECTRICAL INFORMATION AND DETAILS.
26. COMPACTED SELECT GRANULAR TRENCH BACKFILL SHALL BE PLACED FOR ALL UTILITIES BENEATH AND WITHIN 2 FEET OF ANY FUTURE PAVED OR EXISTING PAVED SURFACES. SEE ADDITIONAL NOTES ON PLAN SHEETS FOR BACKFILL REQUIREMENTS UNDER FUTURE PARKING AND DRIVES.

GENERAL NOTES - GRADING

1. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE ROCKFORD PUBLIC SCHOOL DISTRICT 205 AND THE REQUIREMENTS OF THE CITY OF ROCKFORD.
2. ALL EXISTING ITEMS NOT NOTED TO BE REMOVED ARE TO REMAIN AND BE PROTECTED AS NECESSARY.
3. IF CONTRACTOR FINDS ANY DISCREPANCY BETWEEN THE ARCHITECTURAL PLANS AND THE CIVIL PLANS HE MUST NOTIFY ENGINEER PRIOR TO THE CONSTRUCTION OF SAID AREA.
4. FIELD VERIFY HORIZONTAL AND VERTICAL CONTROL PRIOR TO COMMENCING OF WORK. IF ANY DISCREPANCIES ARE FOUND, NOTIFY THE ENGINEER. ADJUSTMENTS OR CORRECTIONS SHALL BE MADE BY THE ENGINEER.
5. ALL PAVEMENT SUBGRADE AREAS TO BE COMPACTED TO 95% OF MODIFIED PROCTOR AT +/– 2% OF OPTIMUM MOISTURE CONTENT IN ACCORDANCE WITH ASTM D1557.
6. ALL BUILDING SUBGRADE AREAS TO BE COMPACTED TO 98% OF MODIFIED PROCTOR AT +/– 2% OF OPTIMUM MOISTURE CONTENT IN ACCORDANCE WITH ASTM D1557.
7. EROSION CONTROL PRACTICES TO BE BASED ON STANDARD SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL AS CONTAINED IN I.E.P.A./WPC/87–012 OR THE CURRENT EDITION AND THE SWPPP ON FILE WITH THE I.E.P.A. FOR THIS PROJECT.
8. ALL ROADWAY AND BUILDING SUBGRADE AREAS TO BE FREE OF ORGANIC SOIL OR TOPSOIL. BUILDING AND PAVED AREAS TO BE PROOF ROLLED.
9. EARTHWORK SHALL BE COMPLETED TO ROUGH GRADE PRIOR TO INSTALLING ANY UTILITIES.
10. NO SLOPES SHALL EXCEED 25% (4:1).
11. ALL NON–PAVED AREAS DISTURBED BY CONSTRUCTION SHALL RECEIVE A MINIMUM OF 4" OF TOPSOIL AND SEEDING.
12. ALL ITEMS NOTED TO BE REMOVED AS WELL AS ALL EXCAVATED MATERIAL NOT SUITABLE FOR FILL OR BACKFILL BECOME THE PROPERTY OF THE CONTRACTOR AND ARE TO BE REMOVED FROM SITE AND BE DISPOSED OF LEGALLY, UNLESS OTHERWISE NOTED.
13. UNSUITABLE MATERIAL REMOVED BELOW THE PROPOSED BUILDING AND PARKING AREAS SHALL BE DISPOSED OF ONSITE AT THE LOCATIONS SHOWN AND REPLACED WITH ENGINEERED FILL AS DIRECTED BY THE SOILS ENGINEER.
14. ALL PROPOSED PAVED AREAS, UNLESS OTHERWISE SPECIFIED, ARE TO BE 1.00% MINIMUM & 3.50% MAXIMUM.
15. ALL PROPOSED TOP–OF–CURB SPOT ELEVATIONS SHOULD BE READ AS THE 6" CURB HEIGHT. SUBTRACT FOR DEPRESSED CURB AND RAMPS ACCORDINGLY.
16. ALL STORM SEWER SHALL BE PRECAST REINFORCED CONCRETE PIPE I.D.O.T. CLASS IV UNLESS INDICATED OTHERWISE.
17. ALL STORM SEWER SHALL BE CONSTRUCTED OF REINFORCED CONCRETE PIPE (RCP) CONFORMING TO THE ASTM C–76 WALL THICKNESS B AND IDOT STANDARDS FOR CLASS A, TYPE 1.
18. USE "CATCH–ALL" INLET PROTECTION OR EQUIVALENT FOR EROSION CONTROL UNDERNEATH OPEN CASTINGS. CONTACT JIM SAYRE OF MARATHON MATERIALS AT 1–800–983–9493 FOR ORDERING INFORMATION.

CONSTRUCTION STAKING

1. CONSTRUCTION STAKING SERVICES WILL BE PROVIDED BY THE CONTRACTOR.

MATERIAL AND COMPACTION TESTING

1. A GEOTECHNICAL REPRESENTATIVE WILL BE PROVIDED AND PAID FOR BY THE OWNER FOR ANY REQUIRED TESTING. THE CONTRACTOR IS RESPONSIBLE TO FOLLOW AND MEET GUIDELINES SET BY THE GEOTECHNICAL REPRESENTATIVE.

SEEDING OF DISTURBED AREAS

1. THE FINAL TOP 6 INCHES OF SOIL IN ANY DISTURBANCE AREA MUST BE A COHESIVE SOIL CAPABLE OF SUPPORTING VEGETATION.
2. FERTILIZER HAVING AN ANALYSIS OF 10–10–10 SHALL BE APPLIED AT A RATE OF 90 LBS/ACRE TO ALL DISTURBED AREAS AND INCORPORATED INTO THE SEEDBED PRIOR TO SOWING THE SEED.
3. THE CONTRACTOR SHALL SEED AND STABILIZE ALL DISTURBED AREAS ADJACENT TO IMPROVEMENTS WITH SEEDING., IDOT CLASS 1A AND NAG DS75 EROSION CONTROL BLANKET OR APPROVED EQUAL IN ACCORDANCE WITH IDOT STANDARD SPECIFICATION OR AS APPROVED BY THE ENGINEER.
4. GUARANTEE: ALL SEEDED AREAS SHALL BE MAINTAINED AND MOWED FOR AT LEAST 30 DAYS AFTER GERMINATION. SCATTERED BARE SPOTS NO LARGER THAN TWO SQUARE FOOT WILL BE ALLOWED UP TO A MINIMUM OF 5% OF ANY SEEDED AREA INCLUDING 30–DAY MAINTENANCE, MOWING AND WATERING AS NECESSARY.
5. THIS WORK SHALL CONFORM TO THE APPLICABLE STANDARDS FROM THE ILLINOIS URBAN MANUAL, THE ILLINOIS DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATION SECTIONS, CURRENT EDITION, THE PROJECT SPECIFICATIONS, AND THE APPROPRIATE DETAILS.
6. RESTORATION – THE CONTRACTOR SHALL RESTORE ALL AREAS DISTURBED DURING CONSTRUCTION OF THE IMPROVEMENTS AND RELATED APPURTENANCES OR AS PART OF ANY OF THEIR ACTIVITIES TO A CONDITION EQUAL TO OR BETTER THAN THE ORIGINAL CONDITION. THIS INCLUDES BUT IS NOT NECESSARILY LIMITED TO, THE EXISTING LAWN AREA WHERE THE CONCRETE WASHOUT WILL BE LOCATED.

LEGEND

PROPOSED	EXISTING	
		STORM MANHOLE
		STORM INLET
		SANITARY MANHOLE
		UNKNOWN MANHOLE
		TELEPHONE PEDESTAL
		LIGHT POLE
		CONIFER TREE
		DECIDUOUS TREE
		CONTROL POINT
		BENCHMARK
	×100.00	SPOT ELEVATION
	TC=100.00 FL=100.00	GRADE LABEL
	1.0%	DRAINAGE SLOPE
		SANITARY SEWER
		STORM SEWER
		GAS LINE
		WIRE FENCE
100	100	CONTOUR
		CONSTRUCTION LIMITS

ABBREVIATIONS

BIT	BITUMINOUS
BLDG	BUILDING
C&G	CURB AND GUTTER
CONC	CONCRETE
EP	EDGE OF PAVEMENT
EX	EXISTING
FDN	FOUNDATION
FF	FINISH FLOOR
FL	FLOWLINE
LF	LINEAL/LINEAR FEET
PCC	PORTLAND CEMENT CONCRETE
PR	PROPOSED
PVMT	PAVEMENT
SW	SIDEWALK
TC	TOP OF CURB

UTILITIES

MH	MANHOLE
SAN	SANITARY
STM	STORM

PIPES

INV	INVERT
PVC	POLYVINYL CHLORIDE PIPE
RCP	REINFORCED CONCRETE PIPE

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ROCKFORD PUBLIC SCHOOL DISTRICT 205

PROFESSIONAL SEAL

CONSULTANT
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KEY PLAN

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REVISIONS

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Job Number	21002885.05
Drawn	TSG
Checked	MRR
Approved	

SHEET TITLE
CIVIL SITE NOTES

SCALE
Scale:

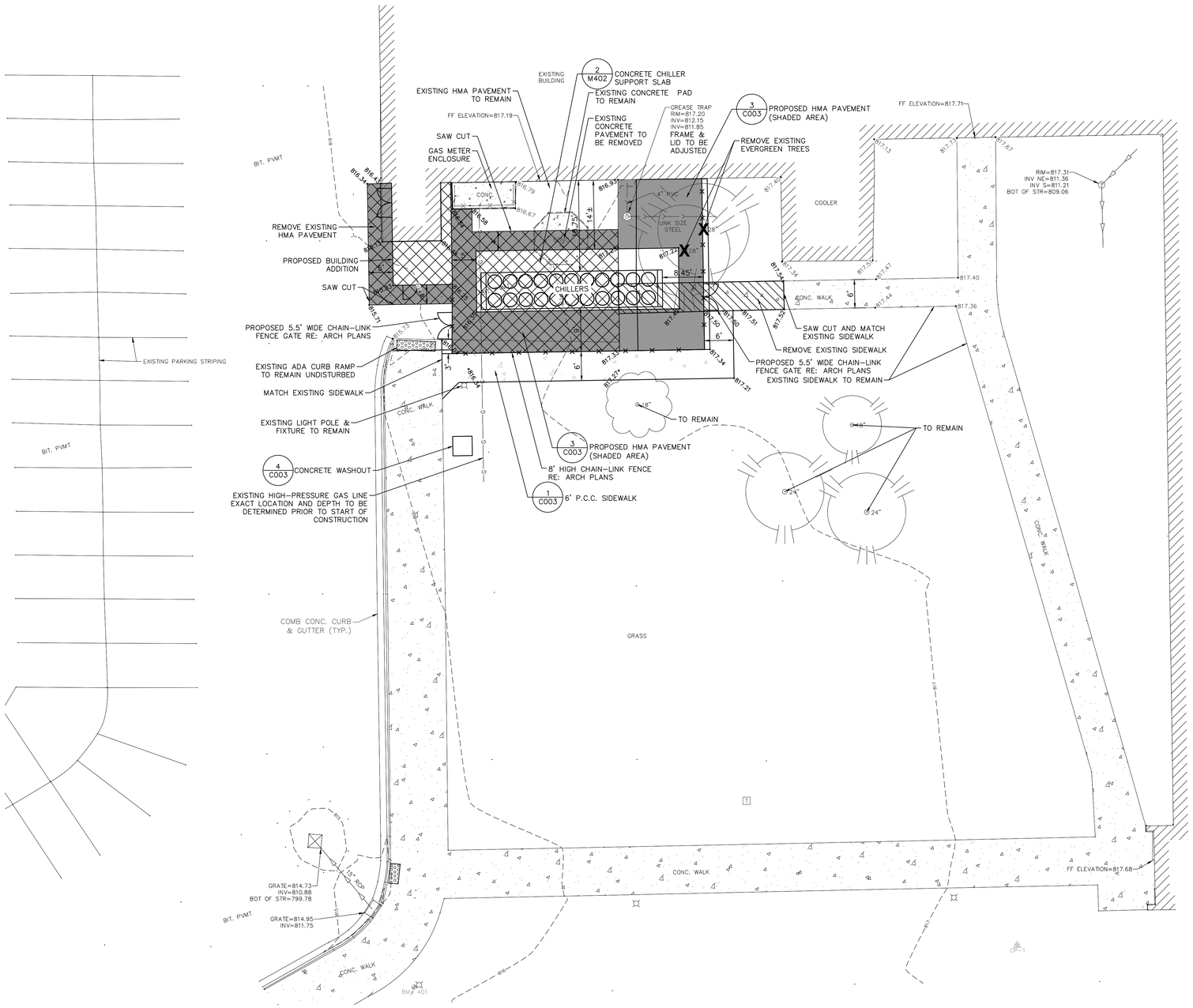
SHEET NUMBER
C001

BENCHMARKS		
POINT #	DESCRIPTION	ELEVATION
BM# 400	CUT SQUARE ON WEST SIDE OF CONCRETE LIGHT POLE BASE	817.75
BM# 401	CUT SQUARE ON EAST SIDE OF CONCRETE LIGHT POLE BASE	818.40

HORIZONTAL CONTROL - NAD 83			
POINT #	NORTHING	EASTING	DESCRIPTION
1	2031647.3240	2599507.8260	SET NAIL
2	2031630.3410	2599363.8610	SET REBAR
3	2031770.0380	2599277.3400	SET PK NAIL

10 5 0 10 20

SCALE: 1" = 10'



LEGEND

- SIDEWALK REMOVAL
- HMA PAVEMENT REMOVAL
- PROPOSED HMA PAVEMENT

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SHEET TITLE

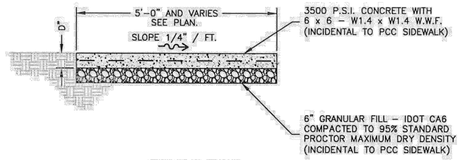
CIVIL SITE PLAN

SCALE

Scale:

SHEET NUMBER

C002



SIDEWALK DETAIL

NOTE: WALK CONSTRUCTED OF 3500 PSI CONCRETE WITH 5 – 8% AIR ENTERTAINMENT, 3/4" MAX. AGGREGATE SIZE TO A MINIMUM THICKNESS OF 5" WITH 6 x 6 – 10/10 W.W.M. CONTINUOUS. WALK TO BE FINISHED WITH A FLOAT, STEEL TROWEL AND BARN BROOM FINISH WITH 4" TOOLED JOINTS AND EDGES. FORMED JOINTS TO BE FINISHED WITH A TOOL HAVING A 1/4" RADIUS.

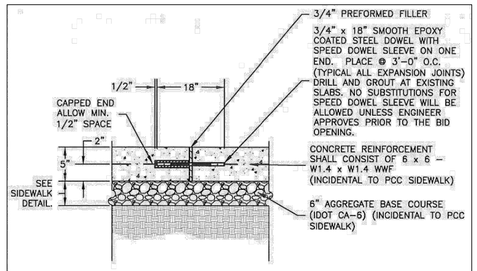
INSTALL 1/2" WIDE EXPANSION JOINTS WITH BITUMINOUS JOINT FILLER AT 30'-0" O.C. (EXTEND FULL DEPTH OF WALK).

SCORE TOOLED JOINTS (1/2 D DEEP) AT 5'-0" O.C. UNLESS OTHERWISE NOTED.

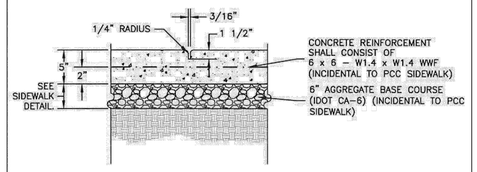
INSTALL 1/2" WIDE BITUMINOUS ISOLATION JOINT WHERE SIDEWALK ABUTS A CURB, CONCRETE DRIVEWAY, STRUCTURE OR AT AN ADJACENT CURB JOINT (EXTEND FULL DEPTH OF WALK).

DEPTH D = 5"

1 / C003 SIDEWALK DETAIL
N.T.S.

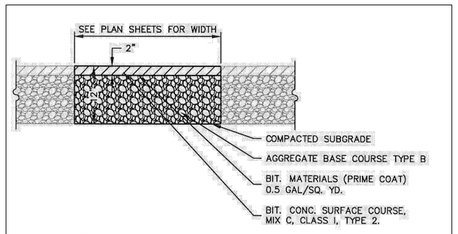


EXPANSION JOINT



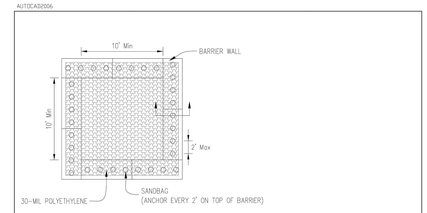
SCORED JOINT

2 / C003 SIDEWALK JOINT DETAILS
N.T.S.

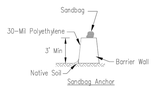


PARTIAL PAVEMENT PATCHING

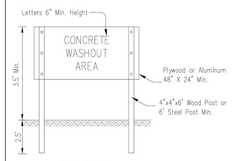
3 / C003 HMA PAVEMENT PATCHING DETAILS
N.T.S.



PLAN VIEW



BARRIER WALL ANCHOR SECTION



SIGN DETAIL

NOTES:

1. Maintaining temporary concrete washout facilities shall include removing and disposing of hardend concrete and/or slurry and returning the facilities to a functional condition.
2. Facility shall be cleaned or reconstructed in a new area once washout becomes two-thirds full.

1" = 1' (FULL)	No. Revision	Date	4 / C003
	1 ADDED TEMP. WASH	02/07/2022	

TEMPORARY CONCRETE WASHOUT FACILITY – BARRIER WALL

	Date
Designed	
Drawn S. JOHNSON	6/08/...
Checked	
Approved	

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ESSER HVAC Improvements - Flinn Middle School
500 Charles St, Rockford, IL 61104
ROCKFORD PUBLIC SCHOOL DISTRICT 205

PROFESSIONAL SEAL

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

KEY PLAN

AGENCY APPROVAL

PRELIMINARY NOT FOR CONSTRUCTION

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Illinois Design Firm Registration #184007637-0006
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REFERENCE SCALE IN INCHES
0 1 2

REVISIONS

No.	Date	Revision / Issue

SHEET INFORMATION

Issue	BID DOCUMENTS
Date	1/28/2022
Job Number	21002885.05
Drawn	TSG
Checked	MRR
Approved	

SHEET TITLE
CIVIL SITE DETAILS

SCALE
Scale:

SHEET NUMBER
C003

DESIGN CRITERIA AND LOADS

1. STRUCTURE HAS BEEN DESIGNED TO COMPLY WITH:
   IBC 2015
   ASCE/SEI 7-10
   ACI 318-14
   ACI 530-13
   AISC 360-10
   AWS D1.1
   BUILDING CODE OF ROCKFORD, STATE OF ILLINOIS
2. RISK CATEGORY — III
3. SEISMIC: — NO CHANGES TO LATERAL SYSTEM
4. WIND: — NO CHANGES TO LATERAL SYSTEM
5. SNOW:

GROUND SNOW	25 PSF
SNOW EXPOSURE FACTOR	1.0
THERMAL FACTOR	1.0
IMPORTANCE FACTOR	1.1
FLAT-ROOF SNOW	22 PSF
DESIGN SNOW	25 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. 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.
9. 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.
10. 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.
11. NO HOLES, NOTCHES, BLOCKOUTS, ETC. ARE ALLOWED IN STRUCTURAL ELEMENTS UNLESS SPECIFICALLY DETAILED ON THE STRUCTURAL DRAWINGS OR APPROVED BY THE STRUCTURAL ENGINEER.
12. 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.
13. 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.
14. 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.
15. EXISTING CONDITIONS:
    A. EXISTING STRUCTURAL INFORMATION SHOWN WAS OBTAINED FROM EXISTING DRAWINGS DATED DECEMBER 8, 1954 BY RAYMOND A ORPUT ASSOCIATES.
    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.

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, SQ/RECT	ASTM A500, GR B	Fy = 46 KSI
BASE AND CONNECTION PLATES	ASTM A36	Fy = 36 KSI
ANCHOR RODS	ASTM F1554, GR 36	Fy = 36 KSI
HIGH STRENGTH BOLTS	ASTM F3125, GR A325	Fv = 120 KSI
HEAVY HEX NUTS	ASTM A563	
WASHERS	ASTM F436	
ELECTRODES FOR ARC WELDING	AWS 5.1, E70XX	

3. HIGH STRENGTH BOLTS SHALL BE INSTALLED IN ACCORDANCE WITH AISC "SPECIFICATIONS FOR STRUCTURAL JOINTS USING HIGH-STRENGTH BOLTS". REFER TO DETAILS FOR BOLT SIZE AND MATERIAL ASTM DESIGNATION.
4. ALL BOLTED CONNECTIONS SHALL BE BEARING TYPE, UNLESS NOTED OTHERWISE.
5. STANDARD BOLT HOLES IN STEEL SHALL BE 1/16 INCH LARGER IN DIAMETER THAN NOMINAL SIZE OF BOLT USED, UNO.
6. ALL WELDS SHALL CONFORM TO THE AMERICAN WELDING SOCIETY "STRUCTURAL WELDING CODE - STEEL" (AWS D1.1), "STRUCTURAL WELDING CODE - SEISMIC SUPPLEMENT" (AWS D1.8), 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. PROVIDE ONE SHOP COAT OF PAINT ON STRUCTURAL STEEL EXPOSED TO PUBLIC VIEW ONLY.
12. 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.
13. 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.
14. FURNISH AND INSTALL MISCELLANEOUS STEEL (CURBS, HANGERS, EXPANSION JOINT ANGLES, STRUTS, ETC.) AS CALLED FOR OR AS NECESSARY PER ARCHITECTURAL AND MECHANICAL/ELECTRICAL DRAWINGS.
15. THE STRUCTURAL STEEL FABRICATOR SHALL FURNISH SHOP DRAWINGS OF ALL STRUCTURAL STEEL FOR ARCHITECT/STRUCTURAL ENGINEER'S REVIEW BEFORE FABRICATION.

REINFORCING STEEL

1. ALL REINFORCING STEEL SHALL BE DETAILED AND PLACED IN CONFORMANCE WITH THE AMERICAN CONCRETE INSTITUTE "ACI DETAILING MANUAL" (SP-066) EXCEPT AS OTHERWISE SHOWN, NOTED OR SPECIFIED.
2. CONCRETE REINFORCING STEEL SHALL BE HIGH STRENGTH NEW BILLET STEEL CONFORMING TO THE FOLLOWING STANDARDS:
   DEFORMED BARS — ASTM A615, GR60 — Fy = 60 KSI
   WELDED WIRE REINFORCING — ASTM A1064 — Fy = 65 KSI
3. MINIMUM CONCRETE COVER SHALL BE PROVIDED AS FOLLOWS TO THE OUTERMOST REINFORCING BARS:
   CAST AGAINST AND PERMANENTLY IN CONTACT WITH GROUND — 3"
   EXPOSED TO WEATHER OR IN CONTACT WITH GROUND
   #6 BARS OR LARGER — 2"
   #5 BARS OR SMALLER — 1 1/2"
4. BAR SPLICES SHALL BE PROVIDED WHERE INDICATED ON THE DRAWINGS. ALL SPLICES SHALL BE CLASS 'B' AS DEFINED IN ACI 318. IF SPLICE LENGTH IS NOT GIVEN ON THE DRAWINGS, PROVIDE LAP LENGTH (IN INCHES) AS FOLLOWS:

BAR SIZE	4000 PSI CONCRETE	
	OTHER	TOP
#3	19	25
#4	25	33
#5	31	41
#6	37	49
#7	54	71
#8	62	81
#9	70	91

LAP LENGTHS ASSUME CLEAR SPACING BETWEEN BARS OF 2 BAR DIAMETERS, AND A MINIMUM COVER OF 1 BAR DIAMETER. FOR DEVELOPMENT LENGTHS, DIVIDE BY 1.3. TOP BARS ARE DEFINED AS HORIZONTAL BARS WITH MORE THAN 1'-0" OF FRESH CONCRETE BELOW.

5. PROVIDE ADEQUATE TIES FOR ALL REINFORCING BARS AND STIRRUPS IN CONCRETE SLABS AND BEAMS. ANCHOR BOLTS, DOWELS, REINFORCING STEEL, INSERTS, ETC., SHALL BE SECURELY TIED IN PLACE PRIOR TO POURING CONCRETE. CONCRETE BLOCKS SHALL ONLY BE USED TO SUPPORT REINFORCING OFF GRADE.
6. SUPPORTS FOR REINFORCEMENT SHALL HAVE CLASS 2 PROTECTION AS DEFINED IN THE CRSI MANUAL OF STANDARD PRACTICE, UNO.
7. CONTINUOUS REINFORCING SHALL BE LAPPED AT MIDSPAN FOR TOP BARS AND DIRECTLY OVER THE SUPPORT FOR BOTTOM BARS.
8. ALL WELDED WIRE REINFORCING (WWR) SHALL BE LAPPED 2 PANELS AT EDGES AND ENDS.
9. DOWELS BETWEEN FOOTINGS AND WALLS OR COLUMNS SHALL BE THE SAME GRADE, SIZE AND SPACING OR NUMBER AS THE VERTICAL REINFORCING, RESPECTIVELY, UNO.
10. REINFORCING IN WALL FOOTINGS BETWEEN COLUMNS SHALL EXTEND INTO COLUMN FOOTINGS A MINIMUM OF 2 FEET.
11. REINFORCING IN FOOTINGS SHALL BE ACCURATELY PLACED, SPACED, SUPPORTED AND SECURED BEFORE PLACING CONCRETE.
12. CUTTING OF REINFORCING WHICH CONFLICTS WITH EMBEDDED OBJECTS IS NOT ACCEPTABLE.
13. REINFORCING BARS SHALL BE BENT COLD, AND NO METHOD OF FABRICATION SHALL BE USED WHICH WOULD BE INJURIOUS TO THE MATERIAL. HEATING OF BARS FOR BENDING IS NOT PERMITTED.
14. FIELD WELDING OR BENDING OF REINFORCING IS NOT PERMITTED EXCEPT AS INDICATED ON THE DRAWINGS OR AS APPROVED BY THE STRUCTURAL ENGINEER.
15. SUBMIT SHOP DRAWINGS FOR FABRICATION AND PLACEMENT OF REINFORCING STEEL. INCLUDE SCHEDULES AND DIAGRAMS OF BENT BARS AND SHOW ARRANGEMENT OF REINFORCEMENT. STRUCTURAL ENGINEER'S REVIEW WILL BE FOR COMPLIANCE WITH DESIGN REQUIREMENTS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING DIMENSIONS AND QUANTITIES.

CAST-IN-PLACE CONCRETE

1. ALL CONCRETE WORK SHALL CONFORM TO THE AMERICAN CONCRETE INSTITUTE PUBLICATIONS: ACI 117, ACI 301, ACI 305.1, ACI 306.1, ACI 308.1, ACI 318 AND SP-066, UNO.
2. CONCRETE MATERIALS SHALL CONFORM TO:

CEMENT	ASTM C150, TYPE I OR II
FLY ASH	ASTM C618, TYPE C OR F
FINE AND COARSE AGGREGATE	ASTM C33
LIGHTWEIGHT AGGREGATE	ASTM C330
WATER	POTABLE
AIR-ENTRAINING ADMIXTURE	ASTM C260
WATER-REDUCING ADMIXTURE	ASTM C494

3. CONCRETE STRENGTHS SHALL CONFORM TO:

INTENDED USE	28-DAY STRENGTH (PSI)	MAX W/C RATIO	A/E	SLUMP
FOUNDATIONS	4000	0.45	5-8%	1"-4"
SLAB-ON-GRADE	3500	0.5	N/A	4"-6"
UNLESS NOTED OTHERWISE	4000	0.45	5-8%	1"-4"

4. SLAB ON GRADE CONSTRUCTION:
   LOCATE SAW CUT CONTROL JOINTS ALONG COLUMN LINES WITH INTERMEDIATE JOINTS SPACED PER THE TABLE BELOW, UNO. SLAB PANELS SHALL HAVE A MAXIMUM LENGTH TO WIDTH RATIO OF 1.5:1. PROVIDE ADDITIONAL CONTROL JOINTS AT ALL RE-ENTRANT CORNERS.

THICKNESS (IN)	MAX JOINT SPACING (FT)
4	12
5	15
6	18

5. CROSS REFERENCE ARCHITECTURAL AND STRUCTURAL DRAWINGS TO ASSURE PROPER DIMENSIONS AND PLACEMENT OF ALL ANCHOR BOLTS, INSERTS, NOTCHES, EDGES OF WALLS/GRADE BEAMS AND PIERS.
6. UNO, ALL FOOTINGS SHALL BE CENTERED UNDER WALLS, PIERS OR COLUMNS.
7. PROVIDE SLEEVES FOR PLUMBING AND ELECTRICAL PENETRATIONS THROUGH CONCRETE BEFORE PLACING. SECURE SUCH SLEEVES TO PREVENT MOVEMENT DURING PLACING OPERATIONS. REFER TO MECHANICAL AND ELECTRICAL DRAWINGS FOR LOCATIONS OF PENETRATIONS.
8. CORE DRILLING CONCRETE IS NOT PERMITTED UNLESS NOTED OTHERWISE OR APPROVED IN WRITING BY THE ARCHITECT. NOTIFY THE ARCHITECT IN ADVANCE OF CONDITIONS NOT SHOWN ON THE DRAWINGS.
9. CONFIRM WITH ARCHITECT THAT MATERIALS TO BE EMBEDDED ARE SUITABLE FOR EMBEDMENT IN CONCRETE.
10. THE OUTSIDE DIAMETER OF EMBEDDED CONDUIT OR PIPE SHALL NOT EXCEED 1/3 OF THE STRUCTURAL SLAB THICKNESS, INCLUDING AT CROSS-OVERS, AND SHALL BE PLACED BETWEEN THE TOP AND BOTTOM REINFORCING WITH A MINIMUM 3" CLEAR COVER. CONDUIT OR PIPE RUNNING PARALLEL TO EACH OTHER SHALL BE SPACED AT LEAST 8" APART AND NO MORE THAN 2 RUNS STACKED VERTICALLY IN THE SLAB. CONDUIT OR PIPE SHALL NOT BE EMBEDDED IN SLAB THICKNESSES LESS THAN 6 INCHES.
11. DO NOT PLACE PIPES, DUCTS, REGLETS OR CHASES IN STRUCTURAL CONCRETE WITHOUT APPROVAL OF THE STRUCTURAL ENGINEER THROUGH THE ARCHITECT.
12. NO ALUMINUM SHALL BE ALLOWED IN THE CONCRETE WORK UNLESS COATED TO PREVENT ALUMINUM-CONCRETE REACTION.
13. WATERSTOPS SHALL BE A PVC PRODUCT. ACCEPTABLE PRODUCTS INCLUDE: WESTEC BARRIER TECHNOLOGIES TPE-R WATERSTOP AND GREENSTREAK PVC WATERSTOP.
14. PROJECTING CORNERS OF BEAMS, WALLS, COLUMNS, ETC., SHALL BE FORMED WITH A 3/4 INCH CHAMFER, UNLESS NOTED OTHERWISE ON ARCHITECTURAL DRAWINGS.
15. SLOPE SLABS TO DRAINS OR FOR POSITIVE DRAINAGE IF NO DRAINS ARE PRESENT, AND PROVIDE DEPRESSIONS WHERE SHOWN ON THE STRUCTURAL AND/OR ARCHITECTURAL DRAWINGS, WITHOUT REDUCING THE THICKNESS OF SLAB INDICATED. FOR SLAB-ON-GRADE DEPRESSIONS GREATER THAN 1 INCH, REFER TO DETAILS FOR ADDITIONAL REINFORCING.
16. PROVIDE VERTICAL CONTROL JOINTS IN EXPOSED CONCRETE WALLS AT A MINIMUM UNIFORM SPACING NOT TO EXCEED 25 FEET PER ACI 224.3. COORDINATE JOINT LOCATIONS WITH ARCHITECTURAL DRAWINGS.
17. CONCRETE SHALL NOT BE PERMITTED TO DROP MORE THAN 5 FEET.
18. CONCRETE SLABS SHALL BE CURED BY KEEPING CONTINUOUSLY WET FOR 7 DAYS. FORMS FOR CONCRETE WALLS SHALL BE LEFT IN PLACE FOR 7 DAYS OR MAY BE STRIPPED AFTER 3 DAYS AND COATED WITH AN APPROVED CURING COMPOUND.
19. THE DESIGN AND ENGINEERING OF FORMWORK, AS WELL AS ITS CONSTRUCTION, SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. FORMS SHALL BE DESIGNED TO HAVE SUFFICIENT STRENGTH TO SAFELY WITHSTAND THE LOADS RESULTING FROM PLACEMENT AND VIBRATION OF THE CONCRETE, AND SHALL ALSO BE DESIGNED FOR SUFFICIENT RIGIDITY TO MAINTAIN SPECIFIED TOLERANCES. CONTRACTOR SHALL SUBMIT DETAILED FORMWORK SHOP DRAWINGS TO THE ARCHITECT TO BE REVIEWED FOR GENERAL COMPLIANCE WITH THE DESIGN CONCEPT ONLY.
20. NO CONCRETE SHALL BE PLACED ONTO OR AGAINST SUBGRADES CONTAINING FREE WATER, FROST, ICE OR SNOW.
21. DURING WINTER CONSTRUCTION, ALL FOOTINGS SHALL BE PROTECTED FROM FROST PENETRATION UNTIL THE BUILDING IS ENCLOSED AND TEMPORARY HEAT IS PROVIDED.
22. THE CONCRETE CONTRACTOR SHALL FURNISH MIX DESIGN SHOP DRAWINGS FOR REVIEW.

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.

DEMOLITION

1. ALL DEMOLITION SHALL BE CARRIED OUT IN SUCH A WAY AS TO NOT DAMAGE EXISTING ELEMENTS WHICH ARE TO REMAIN.
2. ALL ELEMENTS WHICH ARE TO REMAIN AND WHICH ARE DAMAGED DURING DEMOLITION WORK SHALL BE REPLACED AT NO ADDED COST. EXISTING ELEMENTS ARE TO BE PROTECTED TO THE FULLEST EXTENT POSSIBLE TO REDUCE SUCH DAMAGE TO A MINIMUM.

MASONRY

1. MINIMUM 28-DAY COMPRESSIVE STRENGTHS FOR MASONRY CONSTRUCTION SHALL BE:

DESIGN ASSEMBLY STRENGTH, f'm	2000 PSI
INDIVIDUAL CONCRETE MASONRY UNITS	2800 PSI
MORTAR	1800 PSI
GROUT	2000 PSI

2. MASONRY MATERIALS SHALL CONFORM TO THE FOLLOWING STANDARDS:

CONCRETE MASONRY UNITS (CMU)	ASTM C90, GRADE N-1
MORTAR	ASTM C270, TYPE S
GROUT	ASTM C476
REINFORCING STEEL	ASTM A615, GR 60
PLATE AND BENT BAR ANCHORS	ASTM A36
SHEET METAL ANCHORS AND TIES	ASTM A1008
WIRE MESH TIES	ASTM A1064
WIRE TIES AND ANCHORS	ASTM A951
ANCHOR BOLTS	ASTM A307, GRADE A

3. BAR SPLICES SHALL BE PROVIDED WHERE INDICATED ON THE DRAWINGS. IF SPLICE LENGTH IS NOT GIVEN ON THE DRAWINGS, PROVIDE LAP LENGTHS (IN INCHES) AS FOLLOWS EXCEPT BARS LARGER THAN #9 SHALL BE MECHANICALLY SPLICED:

MINIMUM LAP SPLICE LENGTH

BAR SIZE	f'm = 2000 PSI		
	8" CMU	10" CMU	12" CMU
#3	12	12	12
#4	13	12	12
#5	20	16	13
#6	38	29	24

4. LOAD BEARING MASONRY SHALL HAVE FULL HEIGHT 9 GAUGE MINIMUM HORIZONTAL REINFORCEMENT NOT TO EXCEED 16" OC VERTICALLY.
5. ALL LOAD BEARING MASONRY WALLS TO HAVE FULL BED, HEAD AND COLLAR JOINTS.
6. GROUT SOLID ALL JAMBS FULL HEIGHT IN LOAD BEARING MASONRY WALLS TO UNDERSIDE OF LINTEL. EXTEND GROUTED JAMB FROM FACE OF MASONRY OPENING AT LEAST EQUAL TO THE BEARING LENGTH OF THE LINTEL BEYOND THE OPENING PLUS 8 INCHES.
7. PROVIDE A MINIMUM OF 1 INCH GROUT BETWEEN MAIN REINFORCING AND/OR BOLTS AND MASONRY UNIT FACE. VERTICAL REINFORCEMENT SHALL BE CENTERED IN WALL, UNO.
8. CELLS SHALL BE IN VERTICAL ALIGNMENT. DOWELS IN FOOTINGS SHALL BE SET TO ALIGN WITH CORES CONTAINING REINFORCING STEEL.
9. ALL CELLS CONTAINING REINFORCING SHALL BE FILLED SOLID WITH GROUT, AND ALSO WHERE NOTED ON THE DRAWINGS.
10. COORDINATE ANY UNIDENTIFIED PIPE OR DUCT PASSING THROUGH STRUCTURAL MASONRY WALLS, UNLESS NOTED OR DETAILED SPECIFICALLY.
11. REFER TO ARCHITECTURAL DRAWINGS FOR SURFACE AND HEIGHT OF UNITS, LAYING PATTERN AND JOINT TYPE. ALL BLOCK SHALL BE RUNNING BOND, UNO.
12. THE LOAD BEARING CONCRETE MASONRY WALLS FOR THIS PROJECT WERE DESIGNED TO SPAN VERTICALLY AND BE BRACED BY THE ROOF AND FLOOR FRAMING ELEMENTS OF THE STRUCTURE. DURING CONSTRUCTION, THE MASONRY CONTRACTOR SHALL PROVIDE LATERAL BRACING UNTIL THE ROOF STRUCTURE IS INSTALLED AS RECOMMENDED BY ACI 530 AND THE "STANDARD PRACTICE FOR BRACING MASONRY WALLS UNDER CONSTRUCTION", PREPARED BY THE COUNCIL FOR MASONRY WALL BRACING. THIS BRACING IS TO PREVENT UNNECESSARY STRESS OR DAMAGE TO THE MASONRY WALLS FROM WIND LOADS, WHICH CAN OCCUR WHILE THE WALLS ARE NOT PROPERLY BRACED BY THE ROOF AND FLOOR STRUCTURE.
13. THE MASONRY CONTRACTOR SHALL FURNISH SHOP DRAWINGS OF PRODUCT DATA, REINFORCEMENT DETAILS, AND MIX DESIGNS FOR ARCHITECT/STRUCTURAL ENGINEER'S REVIEW BEFORE FABRICATION.

EARTHWORK

1. FOUNDATION DESIGN IS BASED ON THE ACCEPTABLE ASSUMED BEARING PRESSURE BY IBC 2015 .
2. SOIL PROPERTIES:
   ALLOWABLE NET SOIL BEARING PRESSURE:
   ANTICIPATED DEPTH TO ALLOWABLE
   FROST DEPTH — 3'-6" FT
   ACCEPTABLE BEARING PRESSURE — 1,500 PSF
3. ALL EXCAVATIONS SHALL BE PROPERLY AND SAFELY BACKFILLED. DO NOT PLACE BACKFILL BEHIND RETAINING/BASEMENT WALLS BEFORE CONCRETE HAS ATTAINED SPECIFIED COMPRESSIVE STRENGTH.
4. CONTRACTOR SHALL PROVIDE FOR DE-WATERING OF EXCAVATIONS FROM SURFACE WATER, GROUND WATER OR SEEPAGE. FREE GROUND WATER WAS NOT ENCOUNTERED IN THE BORINGS. IF GROUND WATER SHOULD OCCUR DURING EXCAVATION, SPECIAL PROCEDURES SHALL BE IMPLEMENTED AS RECOMMENDED BY THE GEOTECHNICAL ENGINEER OF RECORD.
5. CONTRACTOR SHALL PROVIDE FOR DESIGN AND INSTALLATION OF ALL CRIBBING, SHEETING AND SHORING REQUIRED TO SAFELY RETAIN EARTH BANKS AS REQUIRED.
6. CONTRACTOR SHALL INVESTIGATE SITE DURING CLEARING AND EARTHWORK OPERATIONS FOR FILL MATERIAL OR BURIED STRUCTURES SUCH AS CESSPOOLS, CISTERNS AND FOUNDATIONS. IF ANY SUCH MATERIAL OR STRUCTURES ARE FOUND, ARCHITECT SHALL BE NOTIFIED IMMEDIATELY. ALL ABANDONED FOOTINGS, UTILITIES AND OTHER STRUCTURES THAT INTERFERE WITH NEW CONSTRUCTION SHALL BE REMOVED.
7. EXTREME CARE SHALL BE EXERCISED WHEN EXCAVATING OR GRADING ADJACENT TO EXISTING STRUCTURES OR IMPROVEMENTS TO NOT DAMAGE OR UNDERMINE FOUNDATIONS, WALLS, SLABS, UTILITIES, ETC.
8. ALL FOOTINGS SHALL BE PLACED ONTO FIRM UNDISTURBED SOIL OR CONTROLLED COMPACTED FILL, REMOVING ANY EXISTING FILL OR UNSUITABLE SOILS, AS RECOMMENDED BY THE GEOTECHNICAL ENGINEER. EXCAVATIONS FOR FOOTINGS SHALL BE INSPECTED AND APPROVED BY THE INSPECTION AGENCY PRIOR TO PLACING CONCRETE. CONTRACTOR SHALL NOTIFY INSPECTION AGENCY WHEN EXCAVATION IS READY FOR TESTING. INSPECTION AGENCY TO SUBMIT LETTER OF COMPLIANCE TO THE OWNER.
9. FOOTING ELEVATIONS SHOWN DESIGNATE A MINIMUM DEPTH WHERE AN ADEQUATE SOIL BEARING PRESSURE IS EXPECTED. FOOTINGS, PIERS AND/OR WALLS SHALL BE LOWERED OR EXTENDED AS REQUIRED TO REACH SOIL MEETING THE DESIGN BEARING PRESSURE.
10. ALL REQUIRED BACKFILL AND UTILITY TRENCH BACKFILL WITHIN THE BUILDING AREA SHALL BE MECHANICALLY COMPACTED IN 8" LAYERS TO 95% MAXIMUM DRY DENSITY PER ASTM D1557 AND TO THE APPROVAL OF THE INSPECTION AGENCY.
11. THE MOISTURE CONTENT OF ONSITE CLAYEY SOILS AT THE TIME OF COMPACTION SHALL BE BETWEEN 2-3% ABOVE OPTIMUM MOISTURE CONTENT.
12. ANY IMPORT FILL SOIL REQUIRED SHALL HAVE A LOW POTENTIAL FOR EXPANSION AND SHALL BE APPROVED BY THE GEOTECHNICAL ENGINEER OF RECORD PRIOR TO IMPORTING.
13. ALL UNACCEPTABLE MATERIAL AND ORGANIC MATERIAL SHALL BE REMOVED FROM BELOW ALL PROPOSED SLABS-ON-GRADE. THE EXPOSED NATURAL SOIL SHALL BE PROOF-ROLLED AND THE COMPACTION VERIFIED BY AN INSPECTION AGENCY PRIOR TO PLACING FILL. AREAS EXHIBITING WEAKNESS SHALL BE REMOVED AND REPLACED BY ACCEPTABLE COMPACTED FILL.
14. ALL SITE WORK SHALL BE PERFORMED UNDER THE INSPECTION OF THE SPECIAL INSPECTION AGENCY. VARIATIONS IN SITE CONDITIONS AND THE GEOTECHNICAL REPORT SHALL BE REPORTED TO THE ARCHITECT/STRUCTURAL ENGINEER FOR CLARIFICATIONS PRIOR TO PROCEEDING.

STEEL DECK

1. MATERIAL, DETAILING, DESIGN, MANUFACTURE AND ERECTION OF STEEL DECKS SHALL BE IN ACCORDANCE WITH THE STEEL DECK INSTITUTE (SDI) SPECIFICATION.
2. DECK SIZE AND GAUGE INDICATED ON THE DRAWINGS ARE BASED ON THE FOLLOWING:
   A. VULCRAFT 2015 CATALOG FOR GRAVITY DESIGN LOADS AND UNSHORED CONSTRUCTION SPANS.
   B. STEEL DECK INSTITUTE (SDI) DIAPHRAGM DESIGN MANUAL 3RD EDITION FOR DIAPHRAGM LOADS.
3. PAINTED STEEL ROOF DECK SHALL CONFORM TO ASTM A1008, GRADE C.
4. INSTALL DECK WITH A MINIMUM 2 INCH END LAP CENTERED OVER SUPPORTS.
5. USE SUMP PANS AT ALL ROOF DRAINS. MINIMUM THICKNESS FOR SUMP PANS SHALL BE 14 GAUGE.
6. DECK MANUFACTURER SHALL FURNISH ALL RIDGE AND VALLEY PLATES, SUMP PANS AND DRAIN PLATES AND OTHER ACCESSORIES REQUIRED FOR A COMPLETE INSTALLATION. DECK MANUFACTURER SHALL PROVIDE ALL CLOSURE PLATES AND POUR STOPS NOT PROVIDED BY THE STEEL FABRICATOR.
7. CUTTING AND FRAMING OF OPENINGS FOR OTHER TRADES SHALL BE THE RESPONSIBILITY OF THE TRADES INVOLVED. HOLES THAT ARE LOCATED AND DIMENSIONED ON THE DRAWINGS SHALL BE THE RESPONSIBILITY OF THE DECK ERECTOR.
8. DO NOT PLACE PIPES, DUCTS, REGLETS OR CHASES IN COMPOSITE FLOOR SYSTEMS WITHOUT APPROVAL OF THE STRUCTURAL ENGINEER.
9. DO NOT EXCEED 25 LBS PER HANGER AND A MINIMUM SPACING OF 2'-0" ON CENTER WHEN ATTACHING TO STEEL ROOF DECK. THIS 25 LBS LOAD AND 2'-0" SPACING INCLUDES ADJACENT MECHANICAL, ELECTRICAL, AND ARCHITECTURAL ITEMS HANGING FROM THE DECK. IF THE HANGER RESTRICTIONS CANNOT BE ACHIEVED, SUPPLEMENTAL FRAMING SUPPORTED OFF STEEL FRAMING WILL NEED TO BE ADDED. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR COORDINATING LOCATION AND WEIGHT OF ALL THE ELEMENTS BEING HUNG.

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

NORTH — INDICATES DIRECTION OF TRUE NORTH
1 — PLAN OR DETAIL NUMBER
VIEW NAME — PLAN OR DETAIL NAME
1/8" = 1'-0" — PLAN OR DETAIL SCALE

SIM — INDICATES SIMILAR DETAIL REFERENCED IN MULTIPLE LOCATIONS
1 — DETAIL REFERRED TO BY SECTION CUT
S300 — SHEET DETAIL IS LOCATED ON

LINE TYPE KEY:

- NEW WORK (DARK SOLID LINE/LINE WEIGHT WILL VARY)
- NEW WORK BELOW OR BEYOND VIEW (DARK DASH LINE)
- EXISTING TO BE REMOVED (DARK DASH LINE)
- EXISTING WORK TO REMAIN (HALFTONED SOLID LINE/LINE WEIGHT WILL VARY)
- NON STRUCTURAL (HALFTONED LIGHT SOLID LINE)
- GRID OR CENTERLINE

MATERIAL LEGEND:

- CONCRETE - CAST-IN-PLACE
- CONCRETE - EXISTING
- EARTH
- GRAVEL OR GRANULAR FILL
- GROUT OR DRYPACK OR SAND
- MASONRY
- METAL / COLD-FORM STUD
- PRECAST CONCRETE
- STEEL

WXxX — COLUMN DESIGNATION
BPX — BASE PLATE MARK
SF#(+X'-X") — FOOTING MARK (TOP ELEVATION)
P# (+X'-X") — PIER MARK (TOP ELEVATION)

STRUCTURAL SYMBOL LIST

NOT ALL SYMBOLS MAY APPLY

SYMBOL:	DESCRIPTION:
	METAL DECK (DIRECTION)
(+16'-3")	TOP OF STEEL FRAMING ELEVATION ABOVE ELEVATION +0' - 0"
	MOMENT CONNECTION
	HOLE IN BEAM

STRUCTURAL ABBREVIATION KEY

ABBR:	DESCRIPTION:
#	NUMBER OR POUNDS
@	AT
°	DEGREE
Ø	DIAMETER
-3"	SLAB DEPRESSION
AHU	AIR-HANDLING UNIT
ARCH	ARCHITECT, -URE, -URAL
B.O.	BOTTOM OF
bf	BEAM FLANGE WIDTH
BM	BEAM
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
DIA	DIAMETER
DIM	DIMENSION
DL	DEAD LOAD
DWG	DRAWING
DWL	DOWEL
EA	EACH
EF	EACH FACE
EL	ELEVATION
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
FLR	FLOOR
FT	FOOT
FTG	FOOTING
Fy	YIELD STRESS
GA	GAGE OR GAUGE
GALV	GALVANIZED
HORIZ	HORIZONTAL
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
MAX	MAXIMUM
MECH	MECHANICAL
MANUF	MANUFACTURER
MIN	MINIMUM
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
PL	PLATE
PLF	POUNDS PER LINEAR FOOT
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
R	RADIUS
REINF	REINFORCING, -MENT, -ED
REQD	REQUIRED
RTU	ROOF TOP UNIT
SCHED	SCHEDULE
SIM	SIMILAR
SHTG	SHEATHING
SL	SNOW LOAD
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

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REVISIONS

No.	Date	Revision / Issue

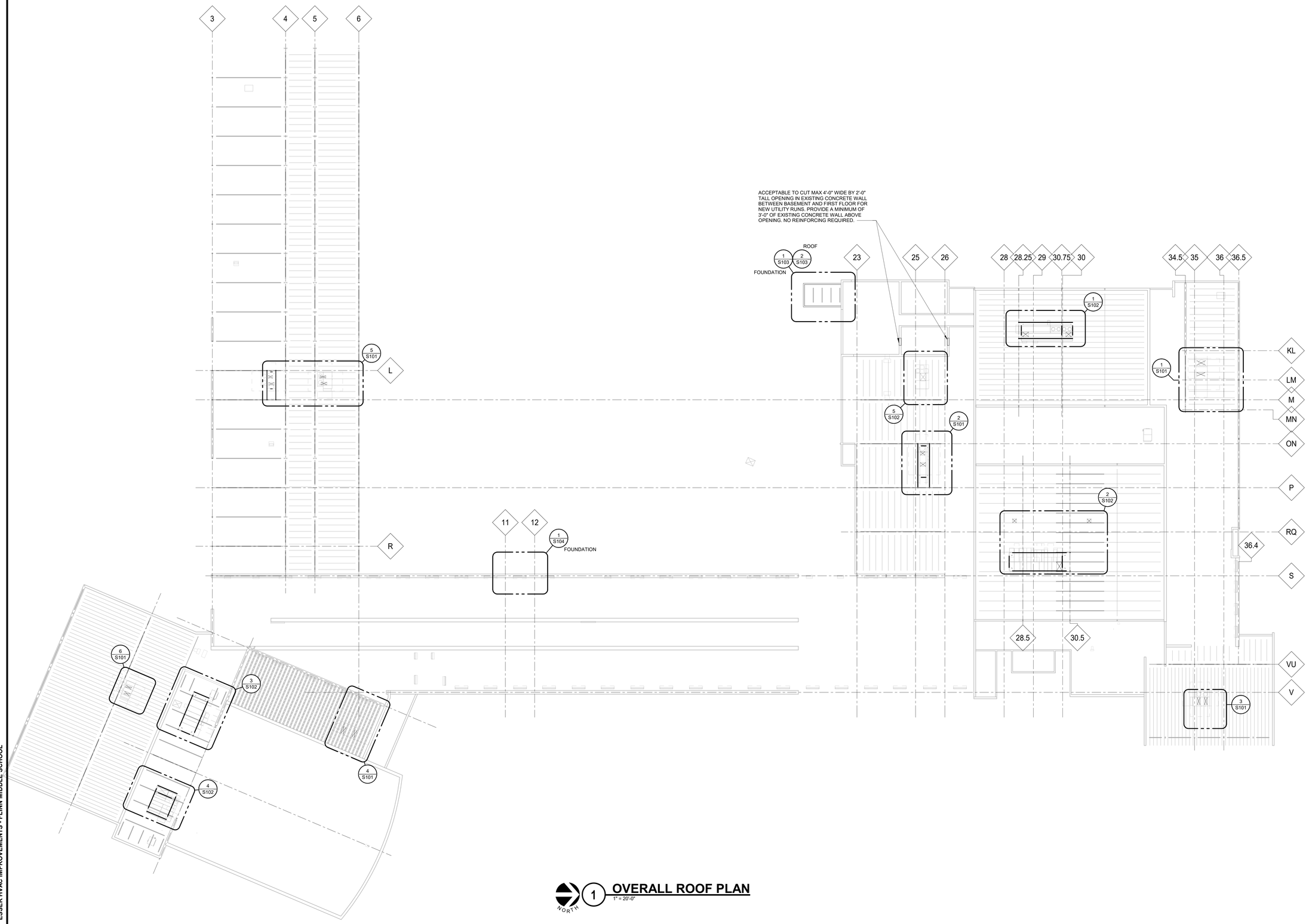
SHEET INFORMATION

Issue	100% CD
Date	01-28-2022
Job Number	21002885.03
Drawn	MATORT
Designed	LISPOG
Approved	Approver

SHEET TITLE
GENERAL NOTES

SCALE
Scale: As indicated

SHEET NUMBER
S000



1 OVERALL ROOF PLAN

1" = 20'-0"

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Drawn	MATORT
Designed	LISPOG
Approved	Approver

SHEET TITLE

OVERALL ROOF PLAN

SCALE

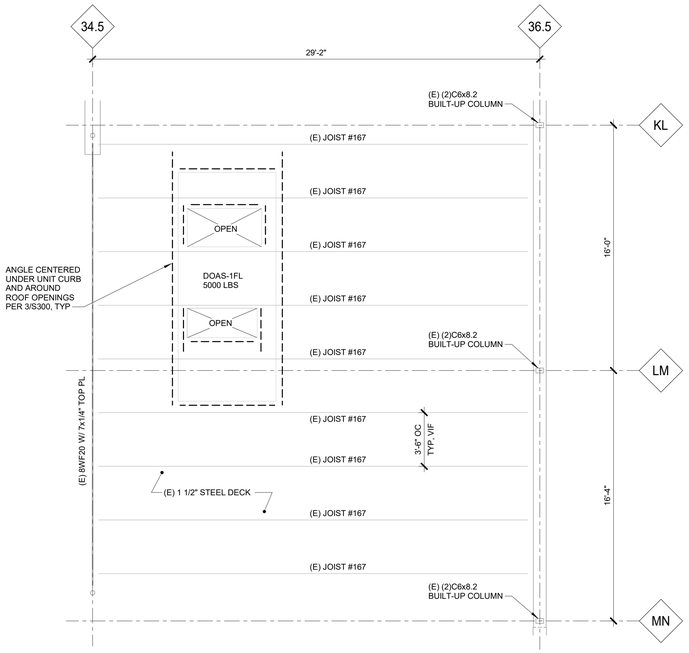
Scale: 1" = 20'-0"

SHEET NUMBER

S100

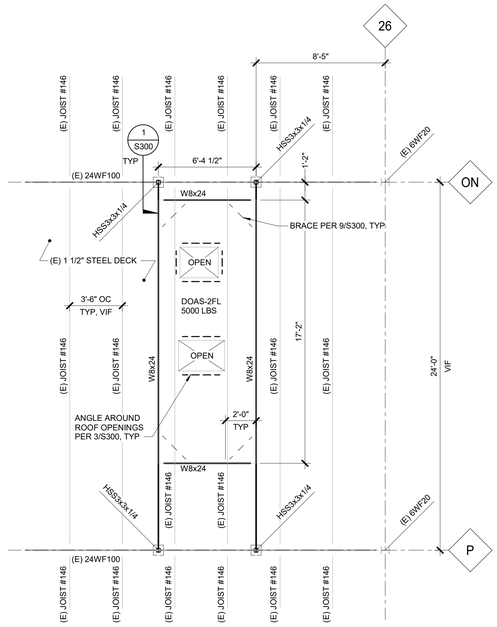
NOTES:

1. ALL EXPOSED STEEL TO BE HOT-DIP GALVANIZED.
2. PROVIDE GALVANIZED COATING TO 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, UON.
6. REINFORCE EXISTING JOISTS FOR ALL NEW CONCENTRATED POINT LOADS AT THE JOIST BOTTOM OR TOP CHORDS PER 6/S300.
7. FOR TYPICAL (E) JOIST TAG, THE FIRST TWO NUMERICAL VALUES IN THE TRIPLE DIGIT NUMBER INDICATE THE JOIST DEPTH. FOR EXAMPLE, #167 INDICATES THE JOIST IS 16" DEEP.



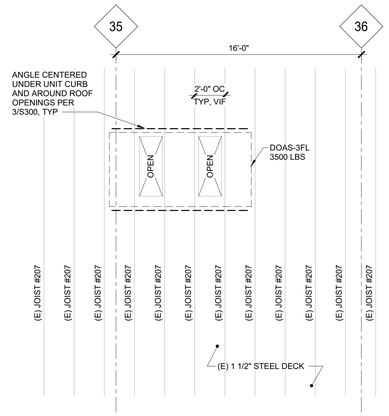
1 ROOF FRAMING PLAN - DOAS-1FL

1/4" = 1'-0"



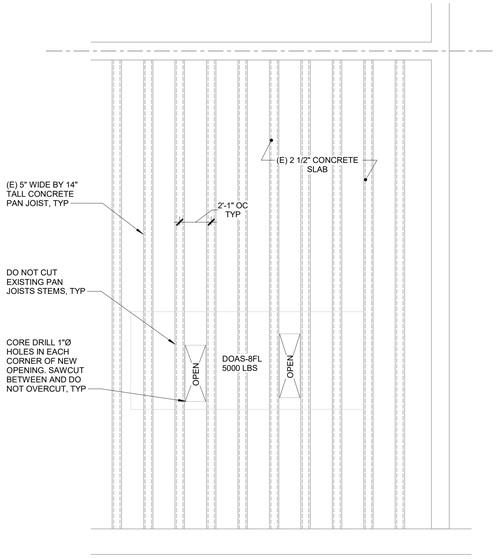
2 ROOF FRAMING PLAN - DOAS-2FL

1/4" = 1'-0"



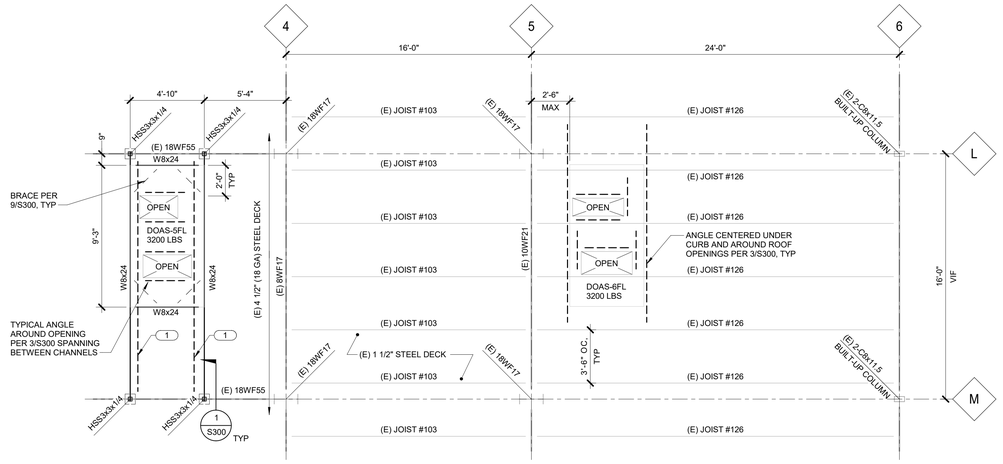
3 ROOF FRAMING PLAN - DOAS-3FL

1/4" = 1'-0"



4 ROOF FRAMING PLAN - DOAS-8FL

1/4" = 1'-0"

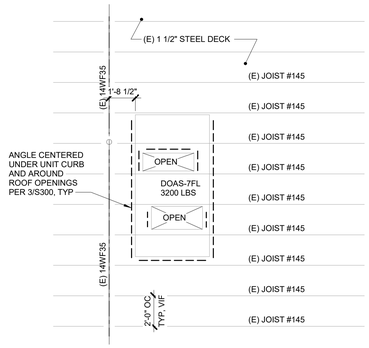


KEYNOTE: (#)

1. C6x10.5. SEE 11/S300 FOR CONNECTION DETAIL AT EXISTING BEAM EACH END.

5 ROOF FRAMING PLAN - DOAS-5FL & DOAS-6FL

1/4" = 1'-0"



6 ROOF FRAMING PLAN - DOAS-7FL

1/4" = 1'-0"

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REVISIONS

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SHEET INFORMATION

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Date	01-28-2022
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Approved	Approver

SHEET TITLE
SUPPORT FRAMING PLANS

SCALE
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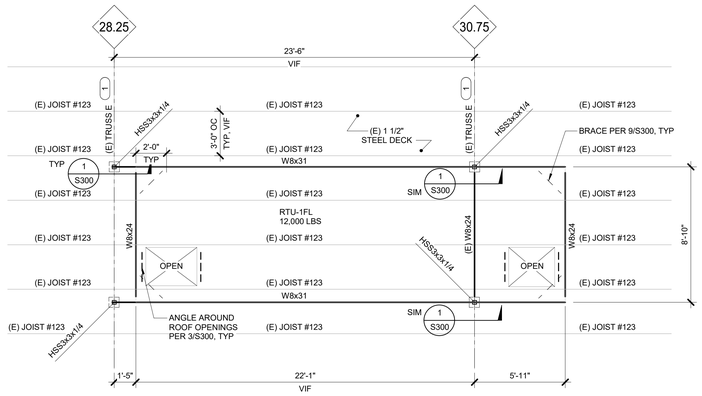
SHEET NUMBER
S101

21002885.03 1/28/2022 10:53:04 AM ESSER HVAC IMPROVEMENTS - FLINN MIDDLE SCHOOL

NOTES:

1. ALL EXPOSED STEEL TO BE HOT-DIP GALVANIZED.
2. PROVIDE GALVANIZED COATING TO 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, UON.
6. REINFORCE EXISTING JOISTS FOR ALL NEW CONCENTRATED POINT LOADS AT THE JOIST BOTTOM OR TOP CHORDS PER 6/S300.
7. FOR TYPICAL (E) JOIST TAG, THE FIRST TWO NUMERICAL VALUES IN THE TRIPLE DIGIT NUMBER INDICATE THE JOIST DEPTH. FOR EXAMPLE, #167 INDICATES THE JOIST IS 16" DEEP.

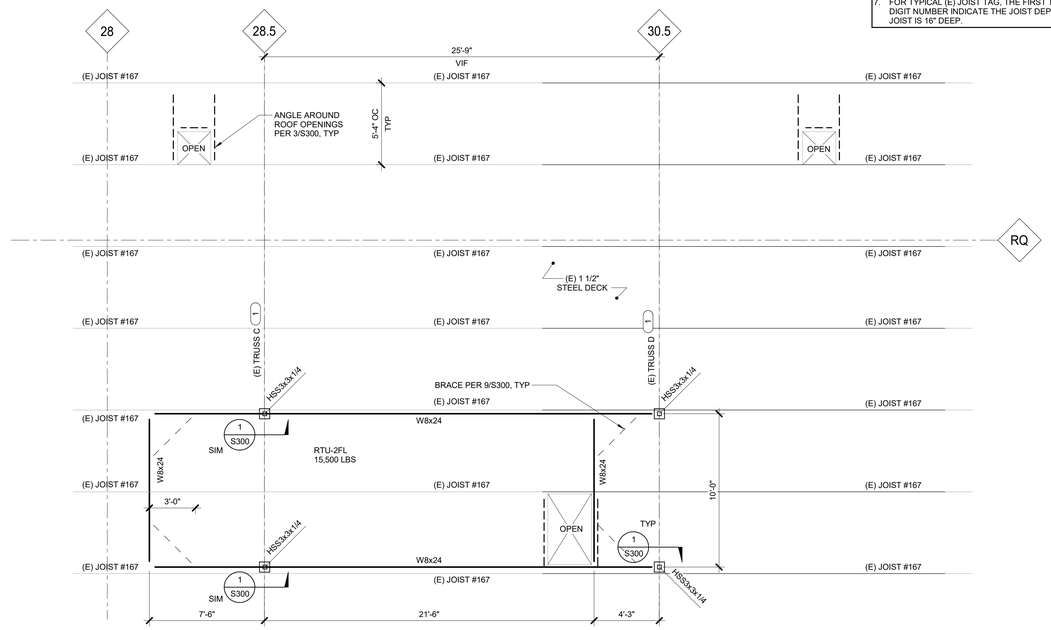


KEYNOTES: #

1. EXISTING TRUSS TO BE REINFORCED PRIOR TO RTU INSTALLATION. SEE 6/S104.

1 ROOF FRAMING PLAN - RTU-1

1/4" = 1'-0"

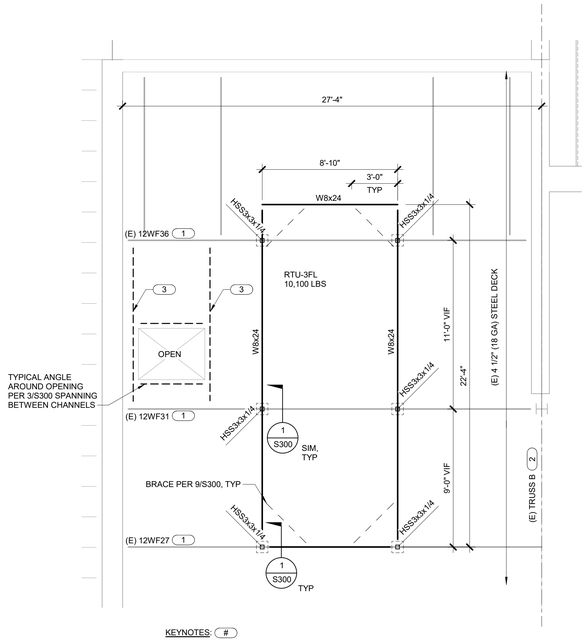


KEYNOTES: #

1. EXISTING TRUSS TO BE REINFORCED PRIOR TO RTU INSTALLATION. SEE 5/S104.

2 ROOF FRAMING PLAN - RTU-2FL

1/4" = 1'-0"

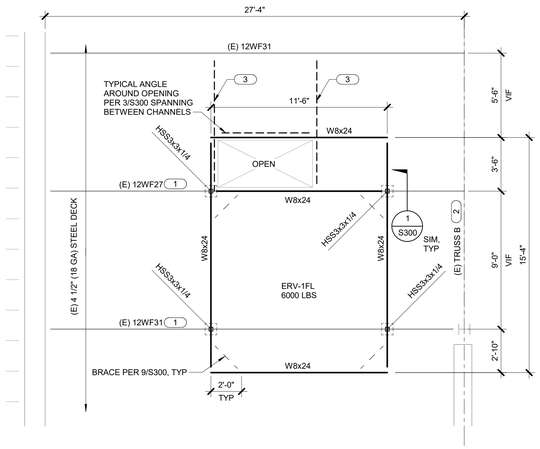


KEYNOTES: #

1. EXISTING STEEL BEAM TO BE REINFORCED PRIOR TO INSTALLATION OF UNIT ABOVE. SEE DETAIL 5/S300.
2. EXISTING TRUSS TO BE REINFORCED PRIOR TO RTU INSTALLATION. SEE 4/S104.
3. C6x10.5. SEE 8/S300 FOR CONNECTION DETAIL AT EXISTING BEAM EACH END.

3 ROOF FRAMING PLAN - RTU-3FL

1/4" = 1'-0"

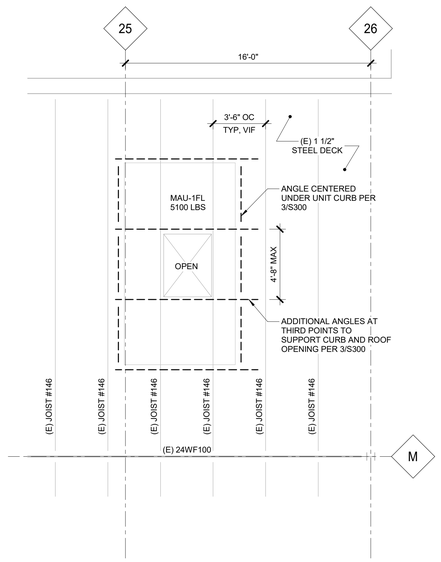


KEYNOTES: #

1. EXISTING STEEL BEAM TO BE REINFORCED PRIOR TO INSTALLATION OF UNIT ABOVE. SEE DETAIL 5/S300.
2. EXISTING TRUSS TO BE REINFORCED PRIOR TO RTU INSTALLATION. SEE 4/S104.
3. C6x10.5. SEE 11/S300 FOR CONNECTION DETAIL AT EXISTING BEAM EACH END

4 ROOF FRAMING PLAN - ERV-1FL

1/4" = 1'-0"



5 ROOF FRAMING PLAN - MAU-1FL

1/4" = 1'-0"

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REFERENCE SCALE IN INCHES

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REVISIONS

No.	Date	Revision / Issue

SHEET INFORMATION

Issue	100% CD
Date	01-28-2022
Job Number	21002885.03
Drawn	MATORT
Designed	LISPOG
Approved	Approver

SHEET TITLE

SUPPORT FRAMING PLANS

SCALE

Scale: As indicated

SHEET NUMBER

S102

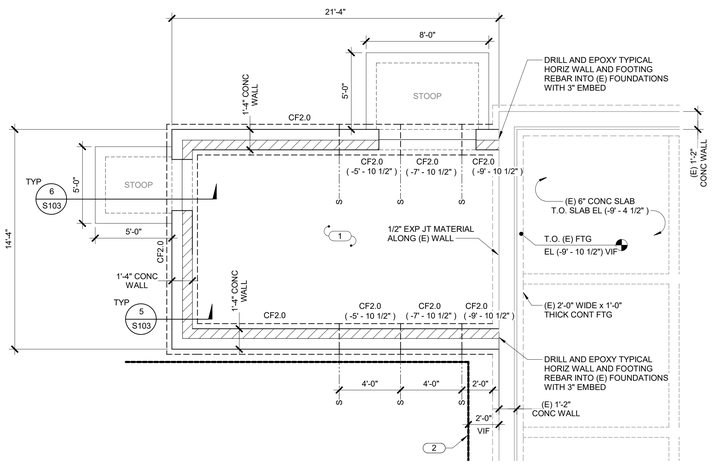
21002885.03 1/28/2022 10:53:07 AM ESSER HVAC IMPROVEMENTS - FLINN MIDDLE SCHOOL

NOTES:

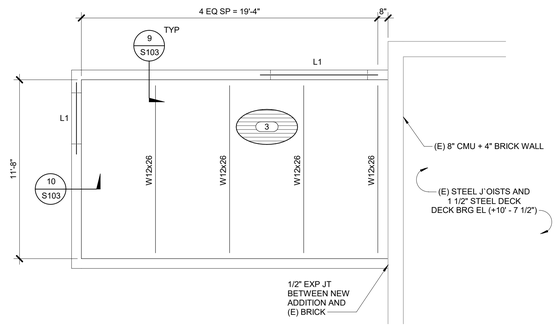
1. STEP FOOTING AS REQUIRED TO MATCH EXISTING FOOTING ELEVATION. VERIFY EXISTING FOOTING ELEVATION IN FIELD.
2. SEE THIS SHEET FOR TYPICAL SLAB ON GRADE DETAILS.
3. SEE 7/S103 FOR TYPICAL FOOTING STEP DETAIL.
4. TOP OF FOOTING EL (-3' - 6"), UON.
5. TOP OF WALL EL (+0' - 0"), UON.
6. PROVIDE ANGLE FRAMING AROUND ALL ROOF DECK OPENINGS PER 3/S300, UON.
7. L1 INDICATES 8" BOND BEAM LINTEL. SEE 8/S103 FOR WALL OPENING DETAIL AND 11/S103 FOR LINTEL DETAIL.

KEYNOTES: (#)

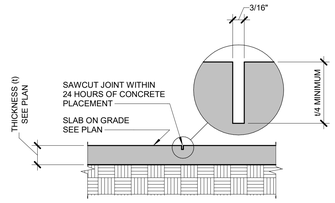
1. 6" CONCRETE SLAB ON GRADE WITH 6x6 - W2.4xW2.4 WWR. TOP OF SLAB ELEVATION (+0' - 0").
2. EXISTING GAS LINE (APPROXIMATE LOCATION SHOWN). PROTECT DURING NEW WALL/FOUNDATION CONSTRUCTION. GC TO COORDINATE WITH UTILITY COMPANY IF RELOCATION OF GAS LINE METER ABOVE GRADE IS REQUIRED.
3. 1 1/2" (20 GA) TYPE B STEEL DECK, 2 SPAN MINIMUM. FASTENING = 36/4 (2) WITH HILTI DRIVE PINS AND #10 SIDELAP SCREWS. DECK BEARING ELEVATION (+12' - 0").



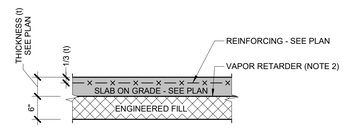
1 ADDITION FOUNDATION PLAN
1/4" = 1'-0"



2 ADDITION ROOF FRAMING PLAN
1/4" = 1'-0"



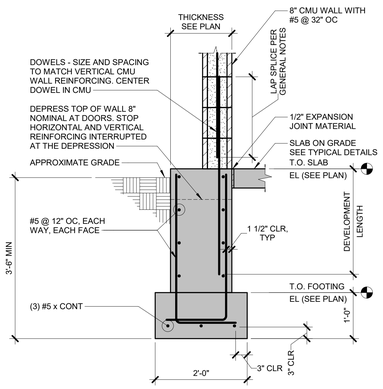
3 TYPICAL CONTROL JOINT
3/4" = 1'-0"



NOTES:

1. COMPACT ALL FILL MATERIAL TO 95% OF THE MAXIMUM DRY DENSITY PER ASTM D1557.
2. VAPOR RETARDER TO MEET ASTM E1745, CLASS A AND BE NOT LESS THAN 10 MILS THICK.

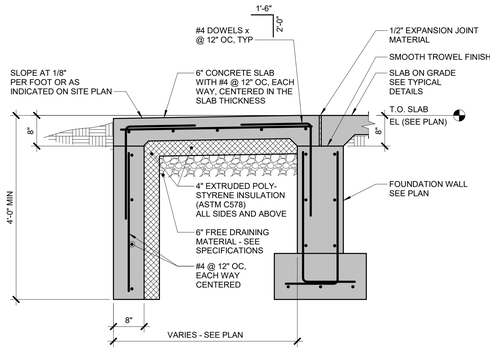
4 TYPICAL SLAB SECTION
3/4" = 1'-0"



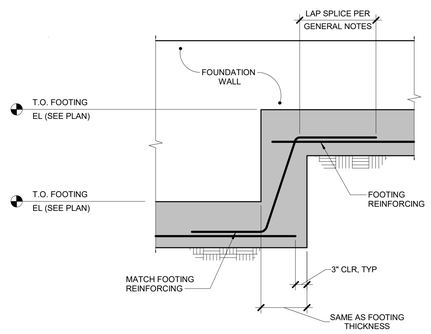
NOTE:

1. FOR HEIGHTS EXCEEDING 4'-0", EACH SIDE OF THE WALL SHALL BE BACKFILLED AT THE SAME TIME.

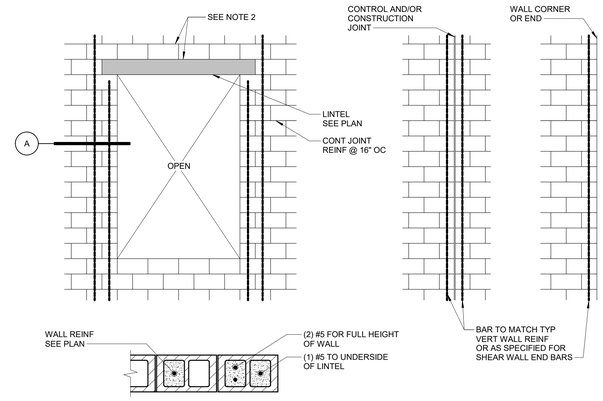
5 TYPICAL PERIMETER FROST WALL
3/4" = 1'-0"



6 TYPICAL STOOP DETAIL
3/4" = 1'-0"



7 TYPICAL STEPPED FOOTING DETAIL
3/4" = 1'-0"

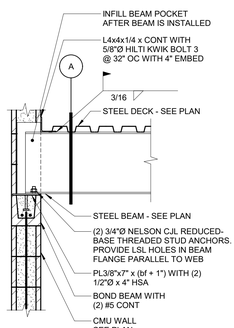


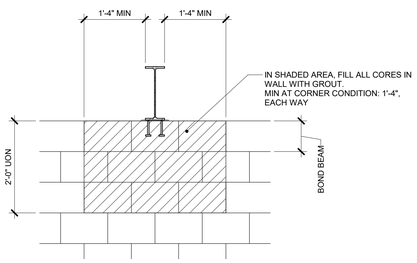
SECTION A

NOTES:

1. SEE ARCH ELEVATIONS FOR CONTROL JOINT LOCATIONS.
2. TWO COURSES OF JOINT REINF ARE REQUIRED ABOVE THE LINTEL AND SHALL EXTEND A MIN OF 24 INCHES PAST THE OPENING.

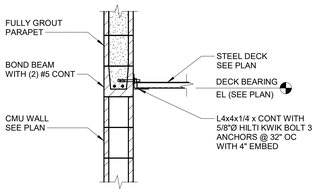
8 TYPICAL CMU WALL OPENING DETAIL
3/4" = 1'-0"



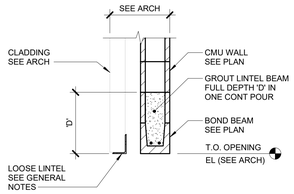


SECTION A

9 TYPICAL BEAM BEARING ON CMU
3/4" = 1'-0"



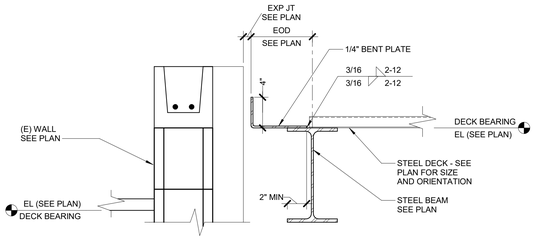
10 ROOF DECK BEARING AT CMU WALL
3/4" = 1'-0"



NOTES:

1. SEE ARCH DRAWINGS FOR INSULATION, THROUGH-WALL FLASHING, AND WEEP HOLES.
2. SHORE UNTIL GROUT FOR LINTEL HAS REACHED ITS SPECIFIED STRENGTH.

11 BOND BEAM LINTEL DETAIL
3/4" = 1'-0"



13 TYPICAL ROOF DECK EDGE DETAIL
1 1/2" = 1'-0"

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REVISIONS

No.	Date	Revision / Issue

SHEET INFORMATION

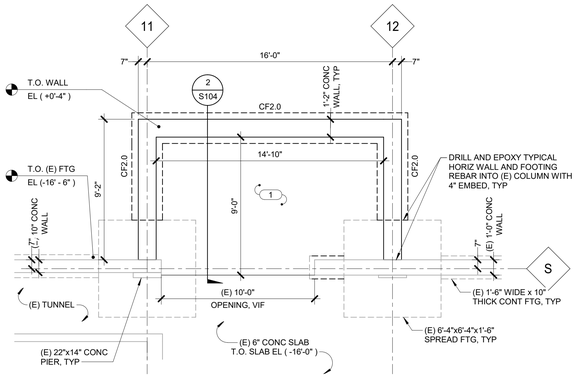
Issue	100% CD
Date	01-28-2022
Job Number	21002885.03
Drawn	Author
Designed	Designer
Approved	Approver

SHEET TITLE
ADDITION PLANS AND DETAILS

SCALE
Scale: As indicated

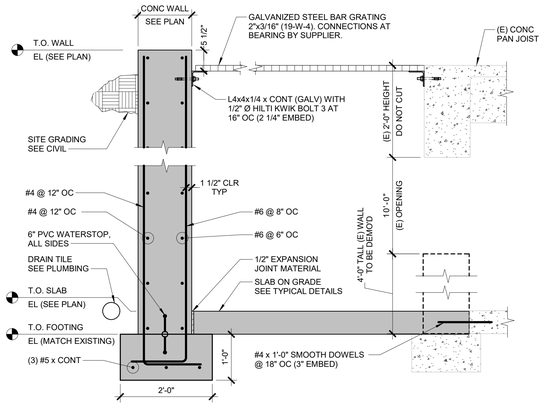
SHEET NUMBER
S103

21002885.03 1/28/2022 10:53:09 AM ESSER HVAC IMPROVEMENTS - FLINN MIDDLE SCHOOL

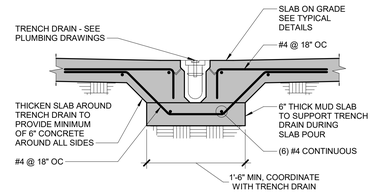


NORTH

1 AREA WAY FOUNDATION PLAN
1/4" = 1'-0"



2 AREA WAY CROSS SECTION
3/4" = 1'-0"



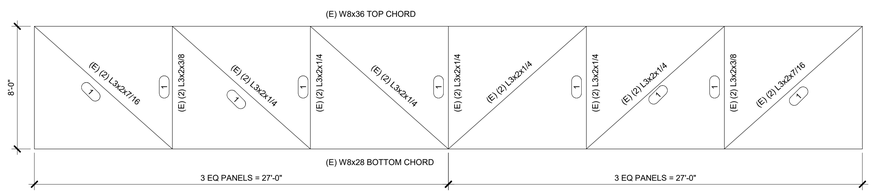
3 TRENCH DRAIN DETAIL
3/4" = 1'-0"

NOTES:

1. SEE S103 FOR TYPICAL SLAB ON GRADE DETAILS.
2. PROVIDE GALVANIZED BAR GRATING AT TOP OF AREA WAY PER 2/S104.
3. PROVIDE TRENCH DRAIN IN SLAB PER 3/S104. COORDINATE EXACT SIZE AND LOCATION WITH PLUMBING.

KEYNOTES: #

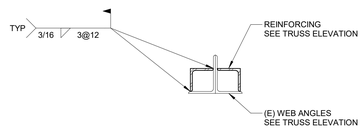
1. 6" CONCRETE SLAB ON GRADE WITH 6x6 - W2.4xW2.4 WWR. T.O. SLAB ELEVATION (-16'-0").



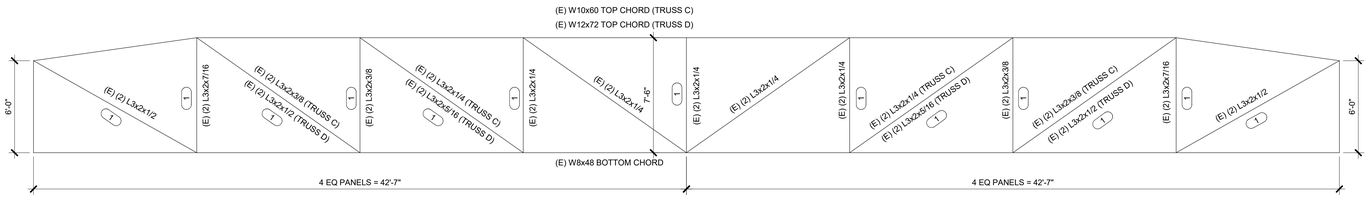
KEYNOTES: #

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 7/S104 FOR DETAIL.

4 EXISTING TRUSS B REINFORCING
1/4" = 1'-0"



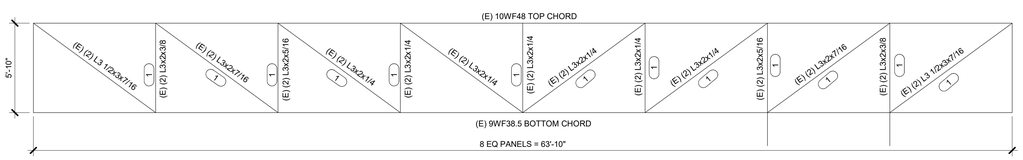
7 WEB REINFORCING DETAIL
1 1/2" = 1'-0"



KEYNOTES: #

1. WEB MEMBER TO BE REINFORCED WITH (2) L2x2x1/4 FOR BOTH TRUSS C AND D LOCATIONS. PROVIDE 3" OF 3/16" FILLET WELD AT EACH FACE OF EXISTING TOP AND BOTTOM CHORDS. SEE 7/S104 FOR DETAIL.

5 EXISTING TRUSS C AND D REINFORCING
1/4" = 1'-0"



KEYNOTES: #

1. WEB MEMBER TO BE REINFORCED WITH (2) L2x2x5/16. PROVIDE 3" OF 3/16" FILLET WELD AT EACH FACE OF EXISTING TOP AND BOTTOM CHORDS. SEE 7/S104 FOR DETAIL.

6 EXISTING TRUSS E REINFORCING
1/4" = 1'-0"

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REFERENCE SCALE IN INCHES
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REVISIONS

No.	Date	Revision / Issue

SHEET INFORMATION

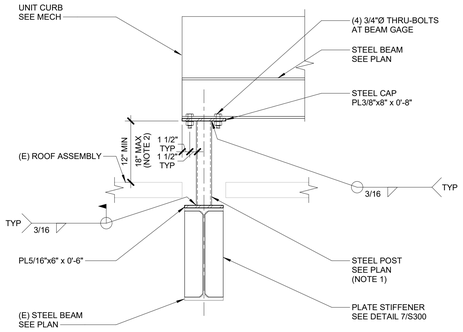
Issue	100% CD
Date	01-28-2022
Job Number	21002885.03
Drawn	Author
Designed	Designer
Approved	Approver

SHEET TITLE
AREA WAY PLAN AND DETAILS

SCALE
Scale: As indicated

SHEET NUMBER
S104

21002885.03 1/28/2022 10:53:11 AM ESSER HVAC IMPROVEMENTS - FLINN MIDDLE SCHOOL

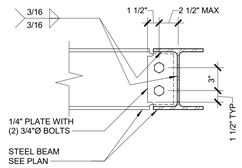


NOTE:

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 STEEL POST DETAIL

1" = 1'-0"

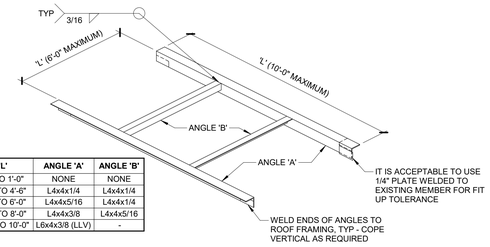


NOTES:

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"



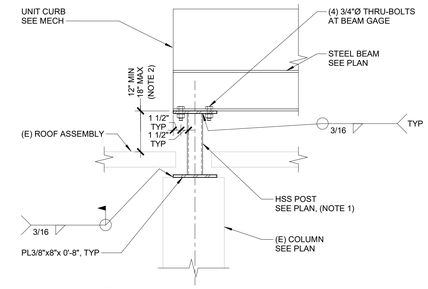
'L'	ANGLE 'A'	ANGLE 'B'
UP TO 1'-0"	NONE	NONE
1'-1" TO 4'-6"	L4x4x1/4	L4x4x1/4
4'-7" TO 6'-0"	L4x4x5/16	L4x4x1/4
6'-1" TO 8'-0"	L4x4x3/8	L4x4x5/16
8'-1" TO 10'-0"	L6x4x3/8 (LLV)	-

NOTES:

1. PROVIDE ANGLE FRAMING FOR ALL OPENINGS EXCEEDING 1'-0".
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 AND CURB SUPPORT DETAIL

3/4" = 1'-0"

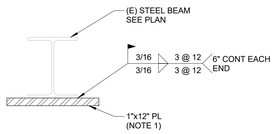


NOTE:

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.

4 STEEL POST DETAIL

1" = 1'-0"

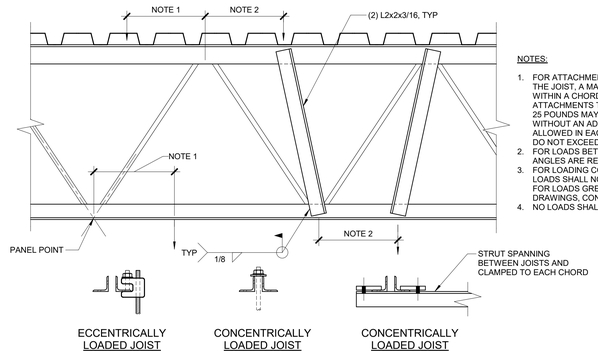


NOTES:

1. PLATE TO BE 16'-0" LENGTH CENTERED ON STEEL BEAM SPAN.
2. ANY PLATE SPLICING IS TO RECEIVE A FULL PENETRATION GROOVE WELD.
3. REMOVE AND RELOCATE EXISTING UTILITIES AS REQUIRED FOR PLATE INSTALLATION.

5 EXISTING BEAM MODIFICATION

1 1/2" = 1'-0"

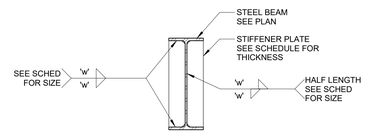


NOTES:

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.

6 JOIST MODIFICATION DETAIL

1 1/2" = 1'-0"



STIFFENER PLATE CONNECTION SCHEDULE

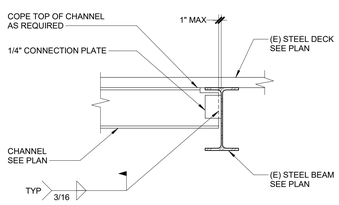
BEAM SIZE	PL THICK	PL WELD (1)	REMARKS
W8, W10	5/16"	1/4"	
W12, W14	5/16"	1/4"	

NOTE:

1. FILLET WELD SIZE 'w', SHALL BE AS SHOWN UNLESS A LARGER SIZE IS REQUIRED BY AISC STEEL CONSTRUCTION MANUAL, TABLE J2.4

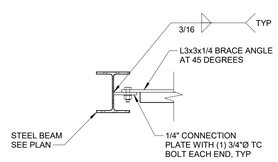
7 TYPICAL STIFFENER PLATE DETAIL

3/4" = 1'-0"



8 CHANNEL CONNECTION DETAIL

1" = 1'-0"



9 BRACE CONNECTION DETAIL

1" = 1'-0"

IMEG
623 26TH AVENUE
QUAD CITIES, IL
61201
PH: 309.788.0673
FAX: 309.786.5967
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ESSER HVAC IMPROVEMENTS - FLINN MIDDLE SCHOOL
2525 Ohio Pkwy, 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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Illinois Design Firm Registration #184007637-0006
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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	21002885.03
Drawn	MATORT
Designed	LISPOG
Approved	Approver

SHEET TITLE
DETAILS

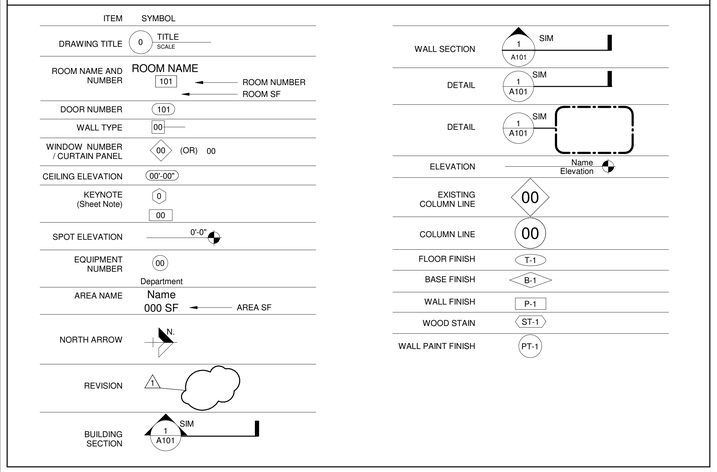
SCALE
Scale: As indicated

SHEET NUMBER
S300

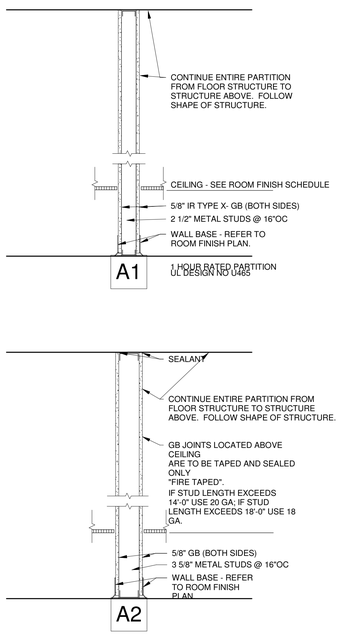
ABBREVIATIONS

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

SYMBOL LEGEND



WALL TYPE



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. 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.
14. 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.
15. EXISTING ENTRANCES AND DRIVES MUST REMAIN OPEN AND PASSABLE.
16. MAINTAIN REQUIRED EXITS FROM THE EXISTING BUILDING THROUGH SUBSTANTIAL COMPLETION.
17. COORDINATE STAGING AREA/LOCATIONS WITH OWNER.
18. 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.
19. G.C. TO ENSURE THAT ANY FIRE RATED WALL SHALL MAINTAIN ITS FIRE RATING.
20. THE EXTENT OF WALL AND FLOOR DEMOLITION IN SHOWN WHERE ANTICIPATED TO APPROXIMATE THE SCOPE OF WORK. THE INTENT IN TO ACCOMMODATE ALL MECHANICAL PIPING, DUCTWORK AND EQUIPMENT INSTALLATION. FINAL COORDINATION IS REQUIRED, BETWEEN GENERAL CONTRACTOR AND MECHANICAL CONTRACTOR TO CONFIRM ALL PENETRATION SIZES ANS LOCATIONS. INCLUDE ALL WORK AS SHOWN ON DRAWINGS AND AS REQUIRED BY THE MECHANICAL CONTRACTOR FOR THEIR INSTALLATION. THERE ARE ALSO GENERAL CONSTRUCTION CUTTING, PATCHING AND REPAIR NOTES INCLUDED ON THE MECHANICAL DRAWINGS THAT ARE TO BE INCLUDED AS PART OF THE GENERAL CONSTRUCTION BID

ACCESSIBILITY COMPLIANCE STATMENT

PROJECT INFORMATION

PROJECT: FLINN MIDDLE SCHOOL

PROJECT ADDRESS: 2525 OHIO PARKWAY

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 Ill. ADM. CODE 400).

STATE OF ILLINOIS DANIEL G. BAASTERA 001-015740 LICENSED ARCHITECT

SIGNED: ARCHITECT / ENGINEER

ILLINOIS REGISTRATION NO. 001-015740

DATE: 12/23/2021

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. BAASTERA 001-015740 LICENSED ARCHITECT

LICENSE: 001-015740

DATE: 12/23/2021

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 **FLINN MIDDLE 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.

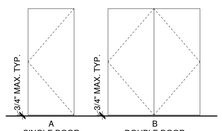
STATE OF ILLINOIS DANIEL G. BAASTERA 001-015740 LICENSED ARCHITECT

SIGNATURE	12/23/2021 DATE
001-015740 LICENSE No.	11/30/2022 EXPIRATION DATE

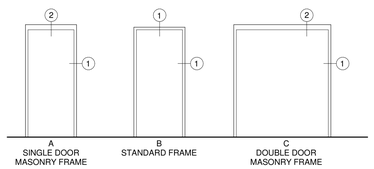
DOOR SCHEDULE

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
F100	3' - 0"	7' - 0"	1-3/4"	A	H.M.	PT.	-	A	H.M.	PT.	2	1	-	F1.00	-	
F101	3' - 0"	7' - 0"	1-3/4"	B	H.M.	PT.	-	C	H.M.	PT.	2	1	-	F1.01	-	
F102	4' - 0"	7' - 0"	1-3/4"	A	H.M.	PT.	-	B	H.M.	PT.	1	1	-	F1.02	-	

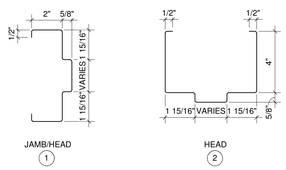
DOOR TYPE

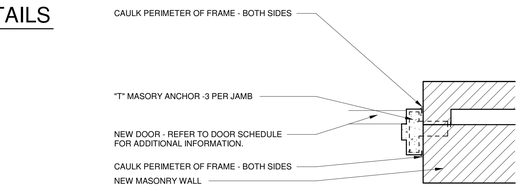


FRAME TYPE



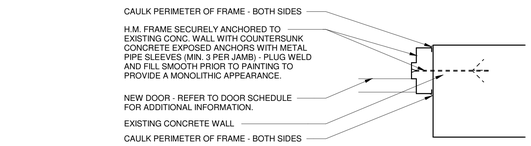
HEAD, SILL, AND JAMB DETAILS





NORTH 1 **JAMB DETAIL AT EXTERIOR DOORS**

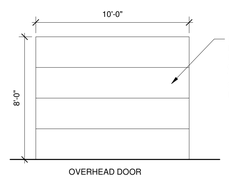
1 1/2" = 1'-0"



NORTH 2 **JAMB DETAIL AT INTERIOR DOOR**

1 1/2" = 1'-0"

OVERHEAD DOOR



OVERHEAD DOOR

PROVIDE NEW 10'-0" WIDE x 8'-0" HIGH RAYNOR INSULATED GARAGE DOOR, COMPLETE WITH RAILS, OPENER, REMOTE CONTROL, AND OPENING CONTROLS ON THE INSIDE FACE OF THE DOOR JAMB. DOOR COLOR TO BE WHITE. SEE STRUCTURAL DRAWINGS FOR LINTEL INFORMATION.

IMEG
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2525 Ohio Parkway, Rockford, IL 61108

Rockford Public Schools #205

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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	**21011.30**
Drawn	**CM / MI**
Checked	**MS**
Approved	**Approver**

SHEET TITLE

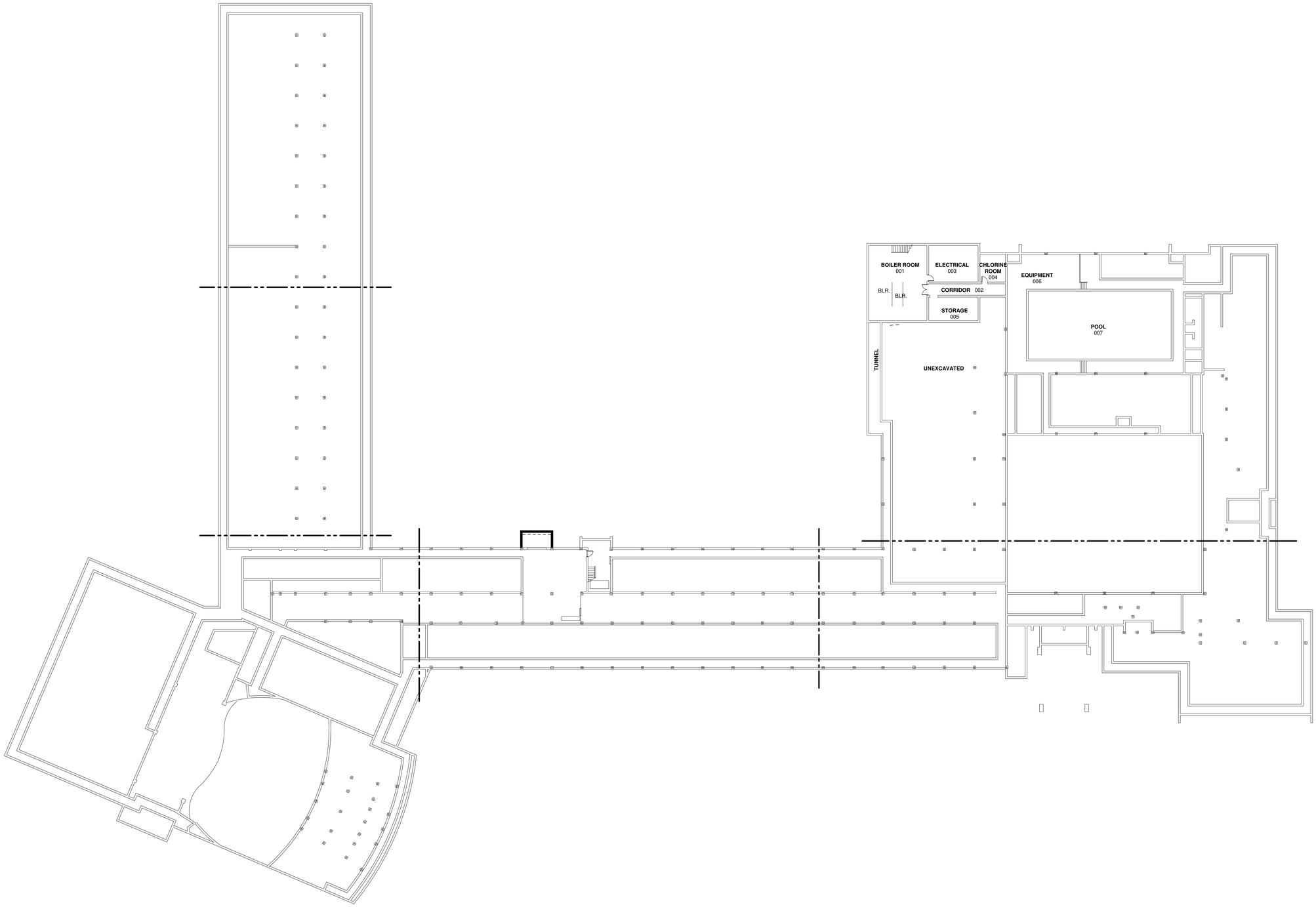
GENERAL INFORMATION, DOOR SCHEDULE, DOOR TYPE, FRAME TYPE, HEAD, SILL AND JAM DETAIL.

SCALE

Scale: **As indicated**

SHEET NUMBER

G0.01



NORTH

1 **BASEMENT CODE PLAN COMPLETE**

3/64" = 1'-0"

LEGEND

- 30 MINUTE FIRE WALL RATING
- 45 MINUTE FIRE WALL RATING
- 1 HOUR FIRE WALL RATING

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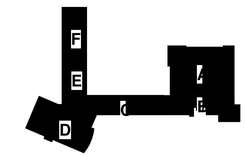
KEY PLAN



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SHEET TITLE

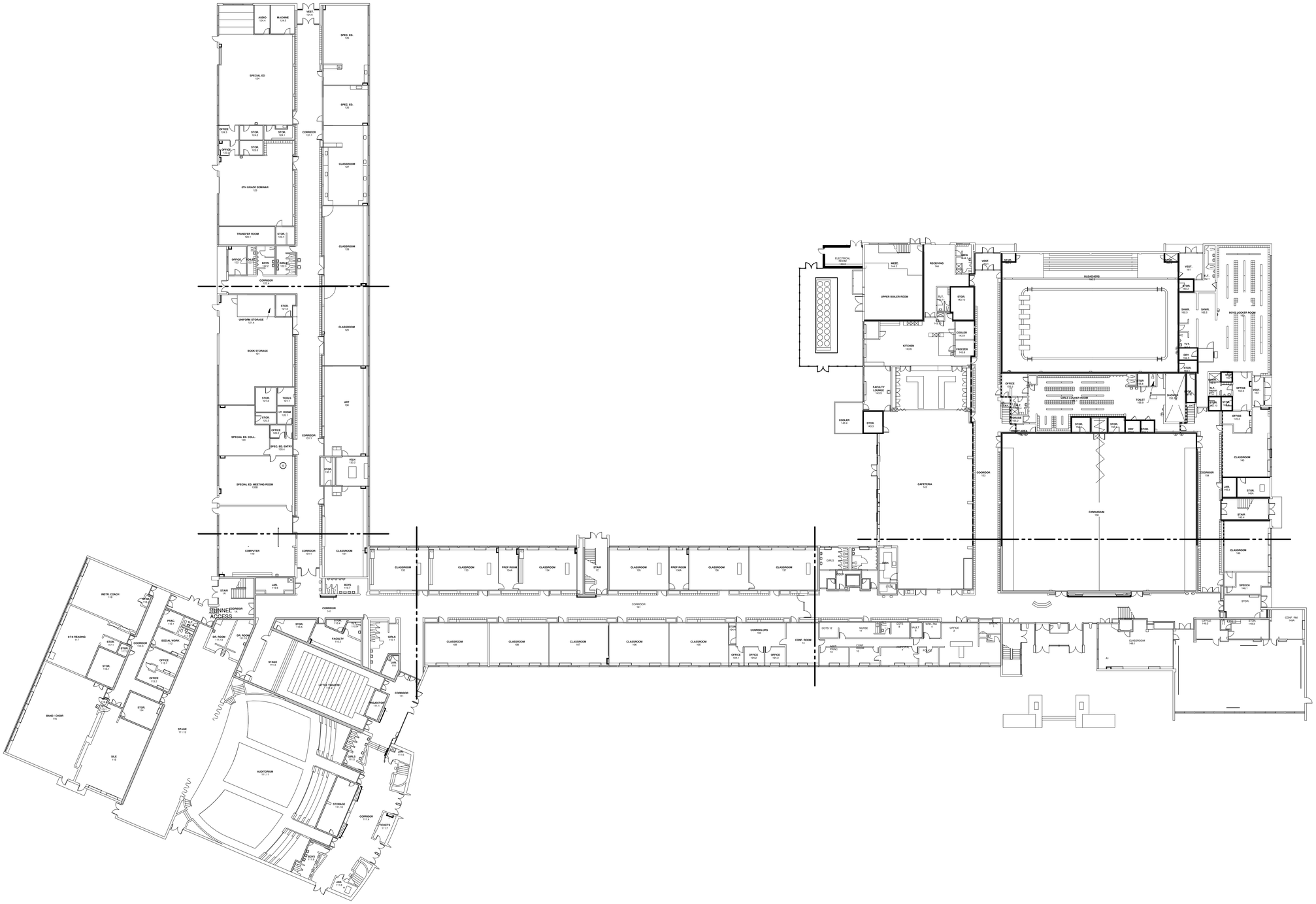
BASEMENT CODE PLAN

SCALE

Scale: **As indicated**

SHEET NUMBER

G1.00



1 **FIRST FLOOR CODE PLAN COMPLETE**

3/64" = 1'-0"

LEGEND

- 30 MINUTE FIRE WALL RATING
- 45 MINUTE FIRE WALL RATING
- 1 HOUR FIRE WALL RATING

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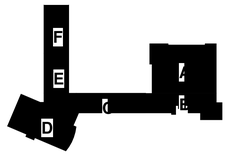
KEY PLAN



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Checked	**MS**
Approved	**Approver**

SHEET TITLE

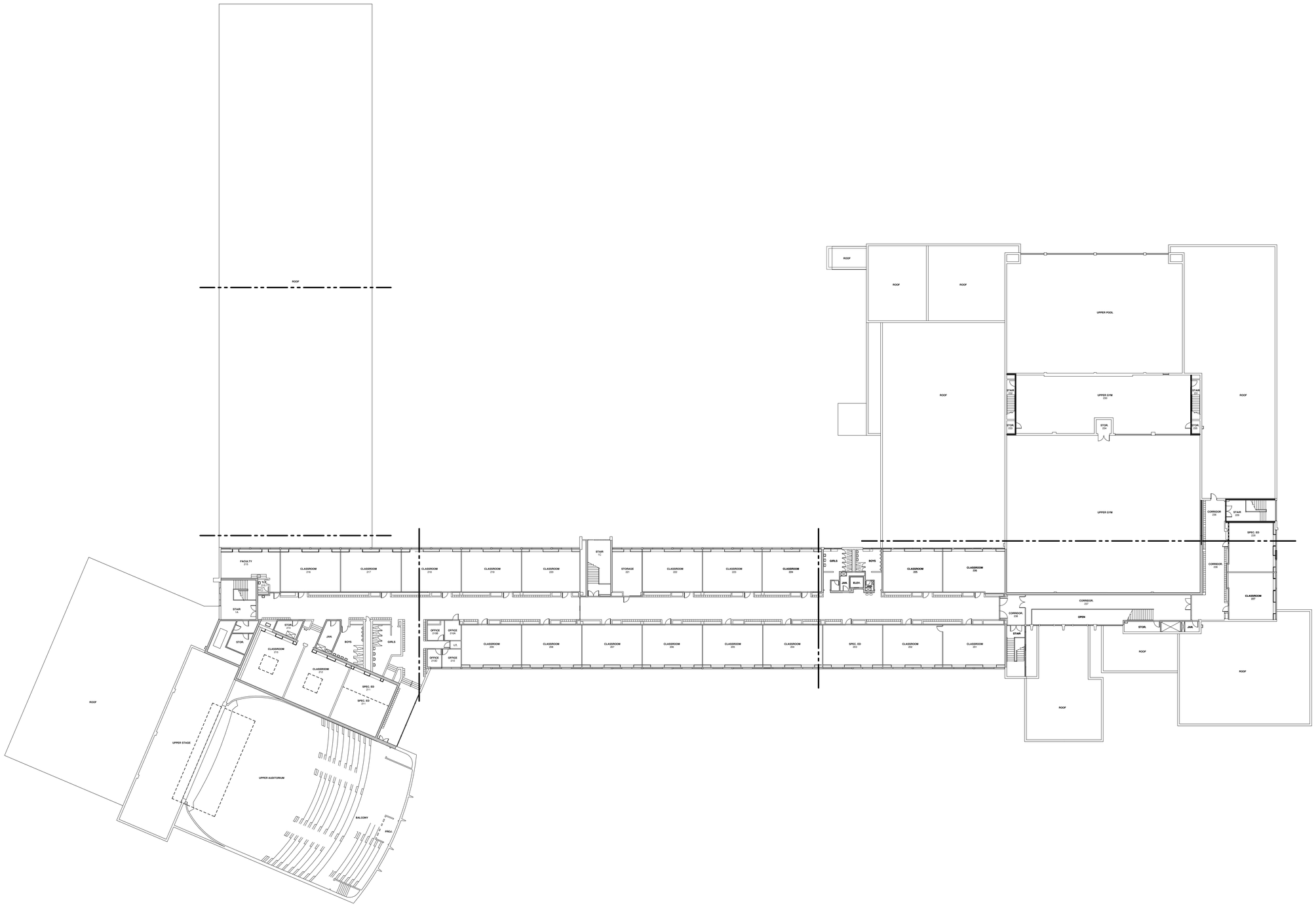
FIRST FLOOR CODE PLAN

SCALE

Scale: **As indicated**

SHEET NUMBER

G1.01



NORTH

1 **SECOND FLOOR CODE PLAN COMPLETE**

3/64" = 1'-0"

LEGEND

- 30 MINUTE FIRE WALL RATING
- 45 MINUTE FIRE WALL RATING
- 1 HOUR FIRE WALL RATING

21011.30 28/01/2022 16:18:55 ESSER HVAC Improvements - Flinn Middle School

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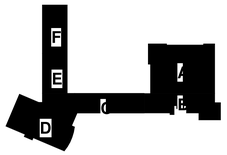
KEY PLAN



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Approved	**Approver**

SHEET TITLE

SECOND FLOOR CODE PLAN

SCALE

Scale: **As indicated**

SHEET NUMBER

G1.02

BASEMENT FINISH SCHEDULE

ROOM NUMBER	ROOM NAME	FLOOR						BASE				WALL						CEILING									CEILING HEIGHT																																							TRIM			KEYNOTES
		EXPOSED CONCRETE	CARPET TILE	PORCELAIN FLOOR TILE	VCT	EXISTING	MATCH EXISTING	RUBBER	PORCEILAIN TILE BASE	EXISTING	MATCH EXISTING	CMU	CERAMIC TILE	PAINT	EPOXY WALL COATING	EXISTING	MATCH EXISTING	1x1 SPLINE	2x2 ACOUSTIC CEILING TILES	2x4 ACOUSTIC CEILING TILES	GYPSUM BOARD/PLASTER	EXPOSED	GYPSUM BOARD SOFFIT	PAINT	EXISTING	MATCH EXISTING	7' - 0" AFF.	7' - 1" AFF.	7' - 6" AFF.	7' - 7" AFF.	7' - 8 1/2" AFF.	7' - 10 1/2" AFF.	7' - 11" AFF.	8' - 1" AFF.	8' - 4" AFF.	8' - 5" AFF.	8' - 8" AFF.	8' - 10" AFF.	8' - 11" AFF.	9' - 0" AFF.	9' - 0 1/2" AFF.	9' - 1" AFF.	9' - 1 1/2" AFF.	9' - 2" AFF.	9' - 2 1/2" AFF.	9' - 3" AFF.	9' - 3 1/2" AFF.	9' - 4" AFF.	9' - 5" AFF.	9' - 6" AFF.	9' - 8" AFF.	9' - 11" AFF.	10' - 4" AFF.	10' - 5" AFF.	11' - 2" AFF.	11' - 3" AFF.	11' - 5" AFF.	11' - 6" AFF.	11' - 7" AFF.	11' - 8" AFF.	12' - 0" AFF.	20' - 4" AFF.	METAL	WOOD	PAINT	
001	BOILER ROOM																																																																	
002	CORRIDOR																																																																	
003	ELECTRICAL																																																																	
004	CHLORINE ROOM																																																																	
005	STORAGE																																																																	
006	EQUIPMENT																																																																	
007	POOL																																																																	
008	FAN ROOM																																																																	
009	STAIR																																																																	

FIRST FLOOR FINISH SCHEDULE - PART A

ROOM NUMBER	ROOM NAME	FLOOR						BASE				WALL						CEILING									CEILING HEIGHT																																							TRIM			KEYNOTES
		EXPOSED CONCRETE	CARPET TILE	PORCELAIN FLOOR TILE	VCT	EXISTING	MATCH EXISTING	RUBBER	PORCEILAIN TILE BASE	EXISTING	MATCH EXISTING	CMU	CERAMIC TILE	PAINT	EPOXY WALL COATING	EXISTING	MATCH EXISTING	1x1 SPLINE	2x2 ACOUSTIC CEILING TILES	2x4 ACOUSTIC CEILING TILES	GYPSUM BOARD/PLASTER	EXPOSED	GYPSUM BOARD SOFFIT	PAINT	EXISTING	MATCH EXISTING	7' - 0" AFF.	7' - 1" AFF.	7' - 6" AFF.	7' - 7" AFF.	7' - 8 1/2" AFF.	7' - 10 1/2" AFF.	7' - 11" AFF.	8' - 1" AFF.	8' - 4" AFF.	8' - 5" AFF.	8' - 8" AFF.	8' - 10" AFF.	8' - 11" AFF.	9' - 0" AFF.	9' - 0 1/2" AFF.	9' - 1" AFF.	9' - 1 1/2" AFF.	9' - 2" AFF.	9' - 2 1/2" AFF.	9' - 3" AFF.	9' - 3 1/2" AFF.	9' - 4" AFF.	9' - 5" AFF.	9' - 6" AFF.	9' - 8" AFF.	9' - 11" AFF.	10' - 4" AFF.	10' - 5" AFF.	11' - 2" AFF.	11' - 3" AFF.	11' - 5" AFF.	11' - 6" AFF.	11' - 7" AFF.	11' - 8" AFF.	12' - 0" AFF.	20' - 4" AFF.	METAL	WOOD	PAINT	
1	BREAK ROOM																																																																	
2	OFFICE																																																																	
2.1	OFFICE TOILET																																																																	
4	WORK ROOM																																																																	
5	POLICE																																																																	
6	VAULT																																																																	
7	PRINCIPAL																																																																	
8	COTS																																																																	
10	CONFERENCE ROOM																																																																	
11	NURSE																																																																	
11.1	TOILET																																																																	
12	COTS																																																																	
13	ASSISTANT PRINCIPAL																																																																	
14	CONFERENCE ROOM																																																																	
104	COUNSELORS																																																																	
104.1	OFFICE																																																																	
104.2	OFFICE																																																																	
104.3	OFFICE																																																																	
104.4	STORAGE																																																																	
105	CLASSROOM																																																																	
106	CLASSROOM																																																																	
107	CLASSROOM																																																																	
108	CLASSROOM																																																																	
109	CLASSROOM																																																																	
110	JANITOR																																																																	
110.1	GIRLS																																																																	
110.2	FACULTY																																																																	
110.3	TOILET																																																																	
110.4	STORAGE																																																																	
110.5	STORAGE																																																																	
110.6	JANITOR																																																																	
110.7	BOYS																																																																	
111	COORIDOR																																																																	
111.1	PROJECTOR																																																																	
111.2	LITTLE THEATRE																																																																	
111.3	STAGE																																																																	
111.4	CORRIDOR																																																																	
111.5	GIRLS																																																																	
111.6	JANITOR																																																																	
111.7	TICKETS																																																																	
111.8	JANITOR																																																																	
111.9	BOYS																																																																	
111.10	STORAGE																																																																	
111.11	AUDITORIUM																																																																	
111.12	STAGE																																																																	
111.13	DRESSING ROOM																																																																	
111.14	DRESSING ROOM																																																																	
111.15	TOILET																																																																	
111.16	TOILET																																																																	
1A	STAIR 1A																																																																	

FINISH SCHEDULE GENERAL NOTES

1. DO NOT PAINT SUSPENDED ACOUSTICAL CEILING SYSTEM
2. PAINT ALL NEW EXPOSED DUCTWORK, CONDUIT, JUNCTION BOXES, ETC. INCLUDING ALL HANGERS, TRIM AND ASSOCIATED COMPONENTS WHETHER INDICATED OR NOT IN THE FINISH SCHEDULE.
3. REFER TO REFLECTED CEILING PLAN FOR CEILING HEIGHTS.
4. PATCH TO MATCH EXISTING WALLS WHETHER INDICATED OF NOT TO ACCOMMODATE NEW WORK.
5. PROVIDE GYPSUM BOARD CONTROL JOINTS ON HORIZONTAL AND VERTICAL SURFACES AT LOCATIONS INDICATED ON THE DRAWINGS.

GENERAL PAINTING NOTES

1. PROVIDE NEW PAINT FINISH AT EXISTING AREAS AFFECTED BY THE WORK, AS INDICATED IN THE ROOM FINISH SCHEDULE, AND AS NOTED ON THE DRAWINGS.
2. FIELD VERIFY ITEMS, CONDITIONS, AND QUANTITIES.
3. PROVIDE PREPARATION AS NECESSARY PRIOR TO PAINTING WORK INCLUDING BUT NOT LIMITED TO PATCHING HOLES AND OTHER AREAS OF DAMAGE, SECURING LOOSE TRIM, CONDUITS, AND ANY OTHER WALL OR CEILING HARDWARE ITEMS REQUIRING ATTENTION.
4. PROPERLY PROTECT EXISTING ITEMS DURING CLEANING AND PAINTING INCLUDING BUT NOT LIMITED TO FLOORING MATERIALS, ELECTRICAL FIXTURES, SWITCHES, OUTLETS, AND EMERGENCY AND OTHER SAFETY DEVICES.
5. PRIOR TO PAINTING WORK, PROVIDE TRI-SODIUM PHOSPHATE (TSP) CLEANING OF EXISTING SURFACES TO RECEIVE PAINT USING APPROVED METHODS OF CLEANING PER CHEMICAL MANUFACTURER'S REQUIREMENTS. PROTECT EXISTING ITEMS DURING CLEANING AND PAINTING.
6. PAINT NEWLY EXPOSED WALL SURFACES PREVIOUSLY CONCEALED BY THE EXISTING CONDITIONS. PAINT THE ENTIRE WALL THAT WILL REMAIN VISIBLE.
7. DO NOT PAINT ELECTRICAL FIXTURES, HOUSINGS, ELECTRICAL WALL DEVICES, SAFETY DEVICES, FIRE ALARM EQUIPMENT, INCLUDING PULLS, HORNS, VISUAL DEVICES, SMOKE AND HEAT DETECTORS, ETC. PAINT EXPOSED ELECTRICAL CONDUIT AND ELECTRICAL BOXES.
8. PAINT NEW ITEMS AS INDICATED.
9. PAINT NEW EXPOSED INTERIOR CONDUIT, JUNCTION BOXES, ETC. INCLUDING HANGERS, TRIM, AND ASSOCIATED COMPONENTS WITHIN FINISHED EXPOSED SPACES WHETHER INDICATED OR NOT IN FINISH SCHEDULE.
10. AT NEW MASONRY INFILL, PAINT ENTIRE WALL THAT WILL REMAIN VISIBLE.

GENERAL PAINTING NOTES

1. PROVIDE NEW PAINT FINISH AT EXISTING AREAS AFFECTED BY THE WORK, AS INDICATED IN THE ROOM FINISH SCHEDULE, AND AS NOTED ON THE DRAWINGS.
2. FIELD VERIFY ITEMS, CONDITIONS, AND QUANTITIES.
3. PROVIDE PREPARATION AS NECESSARY PRIOR TO PAINTING WORK INCLUDING BUT NOT LIMITED TO PATCHING HOLES AND OTHER AREAS OF DAMAGE, SECURING LOOSE TRIM, CONDUITS, AND ANY OTHER WALL OR CEILING HARDWARE ITEMS REQUIRING ATTENTION.
4. PROPERLY PROTECT EXISTING ITEMS DURING CLEANING AND PAINTING INCLUDING BUT NOT LIMITED TO FLOORING MATERIALS, ELECTRICAL FIXTURES, SWITCHES, OUTLETS, AND EMERGENCY AND OTHER SAFETY DEVICES.
5. PRIOR TO PAINTING WORK, PROVIDE TRI-SODIUM PHOSPHATE (TSP) CLEANING OF EXISTING SURFACES TO RECEIVE PAINT USING APPROVED METHODS OF CLEANING PER CHEMICAL MANUFACTURER'S REQUIREMENTS. PROTECT EXISTING ITEMS DURING CLEANING AND PAINTING.
6. PAINT NEWLY EXPOSED WALL SURFACES PREVIOUSLY CONCEALED BY THE EXISTING CONDITIONS. PAINT THE ENTIRE WALL THAT WILL REMAIN VISIBLE.
7. DO NOT PAINT ELECTRICAL FIXTURES, HOUSINGS, ELECTRICAL WALL DEVICES, SAFETY DEVICES, FIRE ALARM EQUIPMENT, INCLUDING PULLS, HORNS, VISUAL DEVICES, SMOKE AND HEAT DETECTORS, ETC. PAINT EXPOSED ELECTRICAL CONDUIT AND ELECTRICAL BOXES.
8. PAINT NEW ITEMS AS INDICATED.
9. PAINT NEW EXPOSED INTERIOR CONDUIT, JUNCTION BOXES, ETC. INCLUDING HANGERS, TRIM, AND ASSOCIATED COMPONENTS WITHIN FINISHED EXPOSED SPACES WHETHER INDICATED OR NOT IN FINISH SCHEDULE.
10. AT NEW MASONRY INFILL, PAINT ENTIRE WALL THAT WILL REMAIN VISIBLE.

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REVISIONS

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SHEET INFORMATION

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Date	**JANUARY 28 , 2022**
Job Number	**21011.30**
Drawn	**CM / MI**
Checked	**MS**
Approved	**Approver**

SHEET TITLE

BASEMENT AND FIRST FLOOR FINISH ROOM SCHEDULE

SCALE

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

SHEET NUMBER

G2.00

FIRST FLOOR FINISH SCHEDULE - PART B

ROOM NUMBER	ROOM NAME	FLOOR						BASE				WALL						CEILING									CEILING HEIGHT																																				TRIM			KEYNOTES
		EXPOSED CONCRETE	CARPET TILE	PORCELAIN FLOOR TILE	VCT	EXISTING	MATCH EXISTING	RUBBER	PORCEILAIN TILE BASE	EXISTING	MATCH EXISTING	CMU	CERAMIC TILE	PAINT	EPOXY WALL COATING	EXISTING	MATCH EXISTING	1x1 SPLINE	2x2 ACOUSTIC CEILING TILES	2x4 ACOUSTIC CEILING TILES	GYPSUM BOARD/PLASTER	EXPOSED	GYPSUM BOARD SOFFIT	PAINT	EXISTING	MATCH EXISTING	7' - 0" AFF.	7' - 1" AFF.	7' - 6" AFF.	7' - 7" AFF.	7' - 8 1/2" AFF.	7' - 10 1/2" AFF.	7' - 11" AFF.	8' - 1" AFF.	8' - 4" AFF.	8' - 5" AFF.	8' - 8" AFF.	8' - 10" AFF.	8' - 11" AFF.	9' - 0" AFF.	9' - 0 1/2" AFF.	9' - 1" AFF.	9' - 1 1/2" AFF.	9' - 2" AFF.	9' - 2 1/2" AFF.	9' - 3" AFF.	9' - 3 1/2" AFF.	9' - 4" AFF.	9' - 5" AFF.	9' - 6" AFF.	9' - 8" AFF.	9' - 11" AFF.	10' - 4" AFF.	10' - 5" AFF.	11' - 2" AFF.	11' - 3" AFF.	11' - 5" AFF.	11' - 6" AFF.	11' - 7" AFF.	11' - 8" AFF.	12' - 0" AFF.	20' - 4" AFF.	METAL	WOOD	PAINT	
1A	COORIDOR																																																																	
112	SOCIAL WORK																																																																	
112.1	PRACTICE																																																																	
113.1	OFFICE																																																																	
113.2	OFFICE																																																																	
113.3	CORRIDOR																																																																	
114	STORAGE																																																																	
115	SILE																																																																	
115.1	STORAGE																																																																	
116	BAND/CHOIR																																																																	
116.1	STORAGE																																																																	
116.2	STORAGE																																																																	
117	6/7/8 READING																																																																	
117.1	STORAGE																																																																	
117.2	STORAGE																																																																	
118	INSTRUCTIONAL COACH																																																																	
118.1	STORAGE																																																																	
119	COMPUTER																																																																	
120	SPECIAL ED. COLL.																																																																	
120B	SPECIAL ED. MEETING ROOM																																																																	
120.1	I.T. ROOM																																																																	
120.2	OFFICE																																																																	
120.3	STORAGE																																																																	
120.4	SPEC. ED. ENTRY																																																																	
121	BOOK STORAGE																																																																	
121.1	TOOLS																																																																	
121.2	STORAGE																																																																	
121.3	STORAGE																																																																	
121.4	UNIFORM STORAGE																																																																	
122	OFFICE																																																																	
122.1	TOILET																																																																	
122.2	BOYS																																																																	
122.3	GIRLS																																																																	
122.4	CORRIDOR																																																																	
123	8TH GRADE SEMINAR																																																																	
123.1	TRANSFER ROOM																																																																	
123.2	OFFICE																																																																	
123.3	STORAGE																																																																	
123.4	STORAGE																																																																	
124	SPECIAL ED																																																																	
124.1	STORAGE																																																																	
124.2	STORAGE																																																																	
124.3	OFFICE																																																																	
124.4	AUDIO																																																																	
124.5	MACHINE																																																																	
124.6	VESTIBULE																																																																	
125	SPECIAL EDUCATION																																																																	
126	SPECIAL EDUCATION																																																																	
127	CLASSROOM																																																																	
128	CLASSROOM																																																																	
129	CLASSROOM																																																																	
130	ART																																																																	
130.1	STORAGE																																																																	
130.2	KILN																																																																	
131	CLASSROOM																																																																	
131.1	COORIDOR																																																																	
132	CLASSROOM																																																																	
133	CLASSROOM																																																																	
134	CLASSROOM																																																																	
134A	PREP ROOM																																																																	
1C	STAIR 1C																																																																	
135	CLASSROOM																																																																	
136	CLASSROOM																																																																	
136A	PREP ROOM																																																																	
137	CLASSROOM																																																																	
138	GIRLS ENTRY																																																																	
138.1	STORAGE																																																																	
138.2	GIRLS																																																																	

FINISH SCHEDULE GENERAL NOTES

1. DO NOT PAINT SUSPENDED ACOUSTICAL CEILING SYSTEM
2. PAINT ALL NEW EXPOSED DUCTWORK, CONDUIT, JUNCTION BOXES, ETC. INCLUDING ALL HANGERS, TRIM AND ASSOCIATED COMPONENTS WHETHER INDICATED OR NOT IN THE FINISH SCHEDULE.
3. REFER TO REFLECTED CEILING PLAN FOR CEILING HEIGHTS.
4. PATCH TO MATCH EXISTING WALLS WHETHER INDICATED OF NOT TO ACCOMMODATE NEW WORK.
5. PROVIDE GYPSUM BOARD CONTROL JOINTS ON HORIZONTAL AND VERTICAL SURFACES AT LOCATIONS INDICATED ON THE DRAWINGS.

GENERAL PAINTING NOTES

1. PROVIDE NEW PAINT FINISH AT EXISTING AREAS AFFECTED BY THE WORK, AS INDICATED IN THE ROOM FINISH SCHEDULE, AND AS NOTED ON THE DRAWINGS.
2. FIELD VERIFY ITEMS, CONDITIONS, AND QUANTITIES.
3. PROVIDE PREPARATION AS NECESSARY PRIOR TO PAINTING WORK INCLUDING BUT NOT LIMITED TO PATCHING HOLES AND OTHER AREAS OF DAMAGE, SECURING LOOSE TRIM, CONDUITS, AND ANY OTHER WALL OR CEILING HARDWARE ITEMS REQUIRING ATTENTION.
4. PROPERLY PROTECT EXISTING ITEMS DURING CLEANING AND PAINTING INCLUDING BUT NOT LIMITED TO FLOORING MATERIALS, ELECTRICAL FIXTURES, SWITCHES, OUTLETS, AND EMERGENCY AND OTHER SAFETY DEVICES.
5. PRIOR TO PAINTING WORK, PROVIDE TRI-SODIUM PHOSPHATE (TSP) CLEANING OF EXISTING SURFACES TO RECEIVE PAINT USING APPROVED METHODS OF CLEANING PER CHEMICAL MANUFACTURER'S REQUIREMENTS. PROTECT EXISTING ITEMS DURING CLEANING AND PAINTING.
6. PAINT NEWLY EXPOSED WALL SURFACES PREVIOUSLY CONCEALED BY THE EXISTING CONDITIONS. PAINT THE ENTIRE WALL THAT WILL REMAIN VISIBLE.
7. DO NOT PAINT ELECTRICAL FIXTURES, HOUSINGS, ELECTRICAL WALL DEVICES, SAFETY DEVICES, FIRE ALARM EQUIPMENT, INCLUDING PULLS, HORNS, VISUAL DEVICES, SMOKE AND HEAT DETECTORS, ETC. PAINT EXPOSED ELECTRICAL CONDUIT AND ELECTRICAL BOXES.
8. PAINT NEW ITEMS AS INDICATED.
9. PAINT NEW EXPOSED INTERIOR CONDUIT, JUNCTION BOXES, ETC. INCLUDING HANGERS, TRIM, AND ASSOCIATED COMPONENTS WITHIN FINISHED EXPOSED SPACES WHETHER INDICATED OR NOT IN FINISH SCHEDULE.
10. AT NEW MASONRY INFILL, PAINT ENTIRE WALL THAT WILL REMAIN VISIBLE.

GENERAL PAINTING NOTES

1. PROVIDE NEW PAINT FINISH AT EXISTING AREAS AFFECTED BY THE WORK, AS INDICATED IN THE ROOM FINISH SCHEDULE, AND AS NOTED ON THE DRAWINGS.
2. FIELD VERIFY ITEMS, CONDITIONS, AND QUANTITIES.
3. PROVIDE PREPARATION AS NECESSARY PRIOR TO PAINTING WORK INCLUDING BUT NOT LIMITED TO PATCHING HOLES AND OTHER AREAS OF DAMAGE, SECURING LOOSE TRIM, CONDUITS, AND ANY OTHER WALL OR CEILING HARDWARE ITEMS REQUIRING ATTENTION.
4. PROPERLY PROTECT EXISTING ITEMS DURING CLEANING AND PAINTING INCLUDING BUT NOT LIMITED TO FLOORING MATERIALS, ELECTRICAL FIXTURES, SWITCHES, OUTLETS, AND EMERGENCY AND OTHER SAFETY DEVICES.
5. PRIOR TO PAINTING WORK, PROVIDE TRI-SODIUM PHOSPHATE (TSP) CLEANING OF EXISTING SURFACES TO RECEIVE PAINT USING APPROVED METHODS OF CLEANING PER CHEMICAL MANUFACTURER'S REQUIREMENTS. PROTECT EXISTING ITEMS DURING CLEANING AND PAINTING.
6. PAINT NEWLY EXPOSED WALL SURFACES PREVIOUSLY CONCEALED BY THE EXISTING CONDITIONS. PAINT THE ENTIRE WALL THAT WILL REMAIN VISIBLE.
7. DO NOT PAINT ELECTRICAL FIXTURES, HOUSINGS, ELECTRICAL WALL DEVICES, SAFETY DEVICES, FIRE ALARM EQUIPMENT, INCLUDING PULLS, HORNS, VISUAL DEVICES, SMOKE AND HEAT DETECTORS, ETC. PAINT EXPOSED ELECTRICAL CONDUIT AND ELECTRICAL BOXES.
8. PAINT NEW ITEMS AS INDICATED.
9. PAINT NEW EXPOSED INTERIOR CONDUIT, JUNCTION BOXES, ETC. INCLUDING HANGERS, TRIM, AND ASSOCIATED COMPONENTS WITHIN FINISHED EXPOSED SPACES WHETHER INDICATED OR NOT IN FINISH SCHEDULE.
10. AT NEW MASONRY INFILL, PAINT ENTIRE WALL THAT WILL REMAIN VISIBLE.

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ESSER HVAC Improvements - Flinn Middle School

2525 Ohio Parkway, Rockford, IL 61108

Rockford Public Schools #205

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504 North Church Street • Rockford, Illinois 61103
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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	21011.30
Drawn	CM / MI
Checked	MS
Approved	Approver

SHEET TITLE
FIRST FLOOR FINISH SCHEDULE

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

SHEET NUMBER
G2.01

FIRST FLOOR FINISH SCHEDULE - PART C

ROOM NUMBER	ROOM NAME	FLOOR						BASE				WALL						CEILING									CEILING HEIGHT																																				TRIM			KEYNOTES
		EXPOSED CONCRETE	CARPET TILE	PORCELAIN FLOOR TILE	VCT	EXISTING	MATCH EXISTING	RUBBER	PORCEILAIN TILE BASE	EXISTING	MATCH EXISTING	CMU	CERAMIC TILE	PAINT	EPOXY WALL COATING	EXISTING	MATCH EXISTING	1x1 SPLINE	2x2 ACOUSTIC CEILING TILES	2x4 ACOUSTIC CEILING TILES	GYPSUM BOARD/PLASTER	EXPOSED	GYPSUM BOARD SOFFIT	PAINT	EXISTING	MATCH EXISTING	7' - 0" AFF.	7' - 1" AFF.	7' - 6" AFF.	7' - 7" AFF.	7' - 8 1/2" AFF.	7' - 10 1/2" AFF.	7' - 11" AFF.	8' - 1" AFF.	8' - 4" AFF.	8' - 5" AFF.	8' - 8" AFF.	8' - 10" AFF.	8' - 11" AFF.	9' - 0" AFF.	9' - 0 1/2" AFF.	9' - 1" AFF.	9' - 1 1/2" AFF.	9' - 2" AFF.	9' - 2 1/2" AFF.	9' - 3" AFF.	9' - 3 1/2" AFF.	9' - 4" AFF.	9' - 5" AFF.	9' - 6" AFF.	9' - 8" AFF.	9' - 11" AFF.	10' - 4" AFF.	10' - 5" AFF.	11' - 2" AFF.	11' - 3" AFF.	11' - 5" AFF.	11' - 6" AFF.	11' - 7" AFF.	11' - 8" AFF.	12' - 0" AFF.	20' - 4" AFF.	METAL	WOOD	PAINT	
139	EQUIPMENT																																																																	
140	BOYS ENTRY																																																																	
140.1	STORAGE																																																																	
140.2	BOYS																																																																	
141	COORDIOR																																																																	
142	VESTIBULE																																																																	
143	CAFETERIA																																																																	
143.1	DISH																																																																	
143.2	STORAGE																																																																	
143.3	STORAGE																																																																	
143.4	COOLER																																																																	
143.5	FACULTY LOUNGE																																																																	
143.6	KITCHEN																																																																	
143.7	OFFICE																																																																	
143.8	FREEZER																																																																	
143.9	COOLER																																																																	
143.10	STORAGE																																																																	
143.11	TOILET																																																																	
143.12	STORAGE																																																																	
144	RECEIVING																																																																	
144.1	MEN																																																																	
144.2	MEZZANINE																																																																	
144.3	STORAGE ADDITION																																																																	
145	CLASSROOM																																																																	
145A	STORAGE																																																																	
145.2	OFFICE																																																																	
145.3	JANITOR																																																																	
145.4	STAIR																																																																	
146	CLASSROOM																																																																	
146.1	SPEECH																																																																	
146.2	ENTRY AREA																																																																	
147	STORAGE																																																																	
149	LIBRARY																																																																	
149.1	CLASSROOM																																																																	
149A	CONFERENCE ROOM																																																																	
149.2	OFFICE																																																																	
149.3	STORAGE																																																																	
149.4	TOILET																																																																	
149.5	I.T. ROOM																																																																	
150	GYMNASIUM																																																																	
150.1	STORAGE																																																																	
150.2	STORAGE																																																																	
153	COORIDOR																																																																	
153.1	VESTIBULE																																																																	
154	COORIDOR																																																																	
155	ENTRY AREA																																																																	
155.1	GIRLS LOCKER ROOM																																																																	
155.2	STORAGE																																																																	
155.3	OFFICE																																																																	
155.4	TOILET																																																																	
155.5	STORAGE																																																																	
155.6	DRY																																																																	
155.7	STORAGE																																																																	
155.8	STORAGE																																																																	
155.9	TOILET																																																																	
155.10	SHOWER																																																																	
155.11	STORAGE																																																																	
155.12	STORAGE																																																																	
160	POOL																																																																	
160.1	STORAGE																																																																	
160.2	STORAGE																																																																	
160.3	BLEACHERS																																																																	
160.4	STORAGE																																																																	
160.5	STORAGE																																																																	
161	VESTIBULE																																																																	
162	BOY'S LOCKER ROOM																																																																	
162.1	TOILET																																																																	
162.2	SHOWER																																																																	

FINISH SCHEDULE GENERAL NOTES

1. DO NOT PAINT SUSPENDED ACOUSTICAL CEILING SYSTEM
2. PAINT ALL NEW EXPOSED DUCTWORK, CONDUIT, JUNCTION BOXES, ETC. INCLUDING ALL HANGERS, TRIM AND ASSOCIATED COMPONENTS WHETHER INDICATED OR NOT IN THE FINISH SCHEDULE.
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4. PATCH TO MATCH EXISTING WALLS WHETHER INDICATED OF NOT TO ACCOMMODATE NEW WORK.
5. PROVIDE GYPSUM BOARD CONTROL JOINTS ON HORIZONTAL AND VERTICAL SURFACES AT LOCATIONS INDICATED ON THE DRAWINGS.

GENERAL PAINTING NOTES

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9. PAINT NEW EXPOSED INTERIOR CONDUIT, JUNCTION BOXES, ETC. INCLUDING HANGERS, TRIM, AND ASSOCIATED COMPONENTS WITHIN FINISHED EXPOSED SPACES WHETHER INDICATED OR NOT IN FINISH SCHEDULE.
10. AT NEW MASONRY INFILL, PAINT ENTIRE WALL THAT WILL REMAIN VISIBLE.

GENERAL PAINTING NOTES

1. PROVIDE NEW PAINT FINISH AT EXISTING AREAS AFFECTED BY THE WORK, AS INDICATED IN THE ROOM FINISH SCHEDULE, AND AS NOTED ON THE DRAWINGS.
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6. PAINT NEWLY EXPOSED WALL SURFACES PREVIOUSLY CONCEALED BY THE EXISTING CONDITIONS. PAINT THE ENTIRE WALL THAT WILL REMAIN VISIBLE.
7. DO NOT PAINT ELECTRICAL FIXTURES, HOUSINGS, ELECTRICAL WALL DEVICES, SAFETY DEVICES, FIRE ALARM EQUIPMENT, INCLUDING PULLS, HORNS, VISUAL DEVICES, SMOKE AND HEAT DETECTORS, ETC. PAINT EXPOSED ELECTRICAL CONDUIT AND ELECTRICAL BOXES.
8. PAINT NEW ITEMS AS INDICATED.
9. PAINT NEW EXPOSED INTERIOR CONDUIT, JUNCTION BOXES, ETC. INCLUDING HANGERS, TRIM, AND ASSOCIATED COMPONENTS WITHIN FINISHED EXPOSED SPACES WHETHER INDICATED OR NOT IN FINISH SCHEDULE.
10. AT NEW MASONRY INFILL, PAINT ENTIRE WALL THAT WILL REMAIN VISIBLE.

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REVISIONS

No.	Date	Revision / Issue

SHEET INFORMATION

Issue	**BID DOCUMENTS**
Date	**JANUARY 28 , 2022**
Job Number	**21011.30**
Drawn	**CM / MI**
Checked	**MS**
Approved	**Approver**

SHEET TITLE
FIRST FLOOR FINISH SCHEDULE

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

SHEET NUMBER
G2.02

FIRST FLOOR FINISH SCHEDULE - PART D

ROOM NUMBER	ROOM NAME	FLOOR						BASE				WALL						CEILING									CEILING HEIGHT																																				TRIM			KEYNOTES
		EXPOSED CONCRETE	CARPET TILE	PORCELAIN FLOOR TILE	VCT	EXISTING	MATCH EXISTING	RUBBER	PORCEILAIN TILE BASE	EXISTING	MATCH EXISTING	CMU	CERAMIC TILE	PAINT	EPOXY WALL COATING	EXISTING	MATCH EXISTING	1x1 SPLINE	2x2 ACOUSTIC CEILING TILES	2x4 ACOUSTIC CEILING TILES	GYPSUM BOARD/PLASTER	EXPOSED	GYPSUM BOARD SOFFIT	PAINT	EXISTING	MATCH EXISTING	7' - 0" AFF.	7' - 1" AFF.	7' - 6" AFF.	7' - 7" AFF.	7' - 8 1/2" AFF.	7' - 10 1/2" AFF.	7' - 11" AFF.	8' - 1" AFF.	8' - 4" AFF.	8' - 5" AFF.	8' - 8" AFF.	8' - 10" AFF.	8' - 11" AFF.	9' - 0" AFF.	9' - 0 1/2" AFF.	9' - 1" AFF.	9' - 1 1/2" AFF.	9' - 2" AFF.	9' - 2 1/2" AFF.	9' - 3" AFF.	9' - 3 1/2" AFF.	9' - 4" AFF.	9' - 5" AFF.	9' - 6" AFF.	9' - 8" AFF.	9' - 11" AFF.	10' - 4" AFF.	10' - 5" AFF.	11' - 2" AFF.	11' - 3" AFF.	11' - 5" AFF.	11' - 6" AFF.	11' - 7" AFF.	11' - 8" AFF.	12' - 0" AFF.	20' - 4" AFF.	METAL	WOOD	PAINT	
162.3	SHOWER																																																																	
162.4	TOILET																																																																	
162.5	DRY																																																																	
162.6	OFFICE																																																																	
162.7	STORAGE																																																																	
162.8	SHOWER																																																																	
162.9	STORAGE																																																																	
162.10	STORAGE																																																																	
163	VESTIBULE																																																																	

SECOND FLOOR FINISH SCHEDULE - PART A

ROOM NUMBER	ROOM NAME	FLOOR						BASE				WALL						CEILING									CEILING HEIGHT																																				TRIM			KEYNOTES
		EXPOSED CONCRETE	CARPET TILE	PORCELAIN FLOOR TILE	VCT	EXISTING	MATCH EXISTING	RUBBER	PORCEILAIN TILE BASE	EXISTING	MATCH EXISTING	CMU	CERAMIC TILE	PAINT	EPOXY WALL COATING	EXISTING	MATCH EXISTING	1x1 SPLINE	2x2 ACOUSTIC CEILING TILES	2x4 ACOUSTIC CEILING TILES	GYPSUM BOARD/PLASTER	EXPOSED	GYPSUM BOARD SOFFIT	PAINT	EXISTING	MATCH EXISTING	7' - 0" AFF.	7' - 1" AFF.	7' - 6" AFF.	7' - 7" AFF.	7' - 8 1/2" AFF.	7' - 10 1/2" AFF.	7' - 11" AFF.	8' - 1" AFF.	8' - 4" AFF.	8' - 5" AFF.	8' - 8" AFF.	8' - 10" AFF.	8' - 11" AFF.	9' - 0" AFF.	9' - 0 1/2" AFF.	9' - 1" AFF.	9' - 1 1/2" AFF.	9' - 2" AFF.	9' - 2 1/2" AFF.	9' - 3" AFF.	9' - 3 1/2" AFF.	9' - 4" AFF.	9' - 5" AFF.	9' - 6" AFF.	9' - 8" AFF.	9' - 11" AFF.	10' - 4" AFF.	10' - 5" AFF.	11' - 2" AFF.	11' - 3" AFF.	11' - 5" AFF.	11' - 6" AFF.	11' - 7" AFF.	11' - 8" AFF.	12' - 0" AFF.	20' - 4" AFF.	METAL	WOOD	PAINT	
200	COORIDOR																																																																	
201	CLASSROOM																																																																	
202	CLASSROOM																																																																	
203	CLASSROOM																																																																	
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208	CLASSROOM																																																																	
209	CLASSROOM																																																																	
210	OFFICE																																																																	
210A	OFFICE																																																																	
210B	OFFICE																																																																	
210C	I.T.																																																																	
210D	OFFICE																																																																	
211	SPECIAL EDUCATION																																																																		
212	CLASSROOM																																																																	
213	CLASSROOM																																																																	
214	STORAGE																																																																	
214.1	JANITOR																																																																	
214.2	BOYS																																																																	
214.3	GIRLS																																																																	
214.4	STORAGE																																																																	
214.5	STORAGE																																																																	
214.6	STORAGE																																																																	
214.7A	CORRIDOR																																																																	
214.7B	COORIDOR																																																																
214.8	BALCONY																																																																	
214.9	PROJECTOR																																																																	
215	FACULTY																																																																	
215.1	TOILET																																																																	
216	CLASSROOM																																																																	
217	CLASSROOM																																																																	
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219	CLASSROOM																																																																	
220	CLASSROOM																																																																	
1C	STAIR 1C																																																																	
221	STORAGE																																																																	
222	CLASSROOM																																																																	
223	CLASSROOM																																																																	
224	CLASSROOM																																																																	
224.1	GIRL'S ENTRY																																																																	
224.2	STORAGE																																																																	
224.3	GIRLS																																																																	
224.4	JANITOR																																																																	
224.5	BOY'S ENTRY																																																																	
224.6	JANITOR																																																																	
224.7	BOYS																																																																	
225	CLASSROOM																																																																	

FINISH SCHEDULE GENERAL NOTES

1. DO NOT PAINT SUSPENDED ACOUSTICAL CEILING SYSTEM
2. PAINT ALL NEW EXPOSED DUCTWORK, CONDUIT, JUNCTION BOXES, ETC. INCLUDING ALL HANGERS, TRIM AND ASSOCIATED COMPONENTS WHETHER INDICATED OR NOT IN THE FINISH SCHEDULE.
3. REFER TO REFLECTED CEILING PLAN FOR CEILING HEIGHTS.
4. PATCH TO MATCH EXISTING WALLS WHETHER INDICATED OF NOT TO ACCOMMODATE NEW WORK.
5. PROVIDE GYPSUM BOARD CONTROL JOINTS ON HORIZONTAL AND VERTICAL SURFACES AT LOCATIONS INDICATED ON THE DRAWINGS.

GENERAL PAINTING NOTES

1. PROVIDE NEW PAINT FINISH AT EXISTING AREAS AFFECTED BY THE WORK, AS INDICATED IN THE ROOM FINISH SCHEDULE, AND AS NOTED ON THE DRAWINGS.
2. FIELD VERIFY ITEMS, CONDITIONS, AND QUANTITIES.
3. PROVIDE PREPARATION AS NECESSARY PRIOR TO PAINTING WORK INCLUDING BUT NOT LIMITED TO PATCHING HOLES AND OTHER AREAS OF DAMAGE, SECURING LOOSE TRIM, CONDUITS, AND ANY OTHER WALL OR CEILING HARDWARE ITEMS REQUIRING ATTENTION.
4. PROPERLY PROTECT EXISTING ITEMS DURING CLEANING AND PAINTING INCLUDING BUT NOT LIMITED TO FLOORING MATERIALS, ELECTRICAL FIXTURES, SWITCHES, OUTLETS, AND EMERGENCY AND OTHER SAFETY DEVICES.
5. PRIOR TO PAINTING WORK, PROVIDE TRI-SODIUM PHOSPHATE (TSP) CLEANING OF EXISTING SURFACES TO RECEIVE PAINT USING APPROVED METHODS OF CLEANING PER CHEMICAL MANUFACTURER'S REQUIREMENTS. PROTECT EXISTING ITEMS DURING CLEANING AND PAINTING.
6. PAINT NEWLY EXPOSED WALL SURFACES PREVIOUSLY CONCEALED BY THE EXISTING CONDITIONS. PAINT THE ENTIRE WALL THAT WILL REMAIN VISIBLE.
7. DO NOT PAINT ELECTRICAL FIXTURES, HOUSINGS, ELECTRICAL WALL DEVICES, SAFETY DEVICES, FIRE ALARM EQUIPMENT, INCLUDING PULLS, HORNS, VISUAL DEVICES, SMOKE AND HEAT DETECTORS, ETC. PAINT EXPOSED ELECTRICAL CONDUIT AND ELECTRICAL BOXES.
8. PAINT NEW ITEMS AS INDICATED.
9. PAINT NEW EXPOSED INTERIOR CONDUIT, JUNCTION BOXES, ETC. INCLUDING HANGERS, TRIM, AND ASSOCIATED COMPONENTS WITHIN FINISHED EXPOSED SPACES WHETHER INDICATED OR NOT IN FINISH SCHEDULE.
10. AT NEW MASONRY INFILL, PAINT ENTIRE WALL THAT WILL REMAIN VISIBLE.

GENERAL PAINTING NOTES

1. PROVIDE NEW PAINT FINISH AT EXISTING AREAS AFFECTED BY THE WORK, AS INDICATED IN THE ROOM FINISH SCHEDULE, AND AS NOTED ON THE DRAWINGS.
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REFERENCE SCALE IN INCHES

REVISIONS

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SHEET INFORMATION

Issue	BID DOCUMENTS
Date	JANUARY 28 , 2022
Job Number	21011.30
Drawn	CM / MI
Checked	MS
Approved	Approver

SHEET TITLE

FIRST AND SECOND FLOOR FINISH SCHEDULE

SCALE

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

SHEET NUMBER

G2.03

SECOND FLOOR FINISH SCHEDULE - PART B

ROOM NUMBER	ROOM NAME	FLOOR						BASE				WALL						CEILING								
		EXPOSED CONCRETE	CARPET TILE	PORCELAIN FLOOR TILE	VCT	EXISTING	MATCH EXISTING	RUBBER	PORCELAIN TILE BASE	EXISTING	MATCH EXISTING	CMU	CERAMIC TILE	PAINT	EPOXY WALL COATING	EXISTING	MATCH EXISTING	1x1 SPLINE	2x2 ACOUSTIC CEILING TILES	2x4 ACOUSTIC CEILING TILES	GYPSUM BOARD/PLASTER	EXPOSED	GYPSUM BOARD SOFFIT	PAINT	EXISTING	MATCH EXISTING
226	CLASSROOM																									
227	SPECIAL EDUCATION																									
228	CLASSROOM																									
229	STAIR																									
229	STAIR																									
230	UPPER GYM																									
231	STAIR																									
232	STAIR																									
233	STORAGE																									
234	STORAGE																									
235	STORAGE																									
236	CORRIDOR																									
237	CORRIDOR																									
238	CORRIDOR																									
239	JANITOR																									
240	STORAGE																									
241	CORRIDOR																									
300	FAN ROOM																									

ROOM NUMBER	ROOM NAME	CEILING HEIGHT																																				TRIM			KEYNOTES
		7' - 0" AFF.	7' - 1" AFF.	7' - 6" AFF.	7' - 7" AFF.	7' - 8 1/2" AFF.	7' - 10 1/2" AFF.	7' - 11" AFF.	8' - 1" AFF.	8' - 4" AFF.	8' - 5" AFF.	8' - 8" AFF.	8' - 10" AFF.	8' - 11" AFF.	9' - 0" AFF.	9' - 0 1/2" AFF.	9' - 1" AFF.	9' - 1 1/2" AFF.	9' - 2" AFF.	9' - 2 1/2" AFF.	9' - 3" AFF.	9' - 3 1/2" AFF.	9' - 4" AFF.	9' - 5" AFF.	9' - 6" AFF.	9' - 8" AFF.	9' - 11" AFF.	10' - 4" AFF.	10' - 5" AFF.	11' - 2" AFF.	11' - 3" AFF.	11' - 5" AFF.	11' - 6" AFF.	11' - 7" AFF.	11' - 8" AFF.	12' - 0" AFF.	20' - 4" AFF.	METAL	WOOD	PAINT	
226	CLASSROOM																																								
227	SPECIAL EDUCATION																																								
228	CLASSROOM																																								
229	STAIR																																								
229	STAIR																																								
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Checked	MS
Approved	Approver

SHEET TITLE

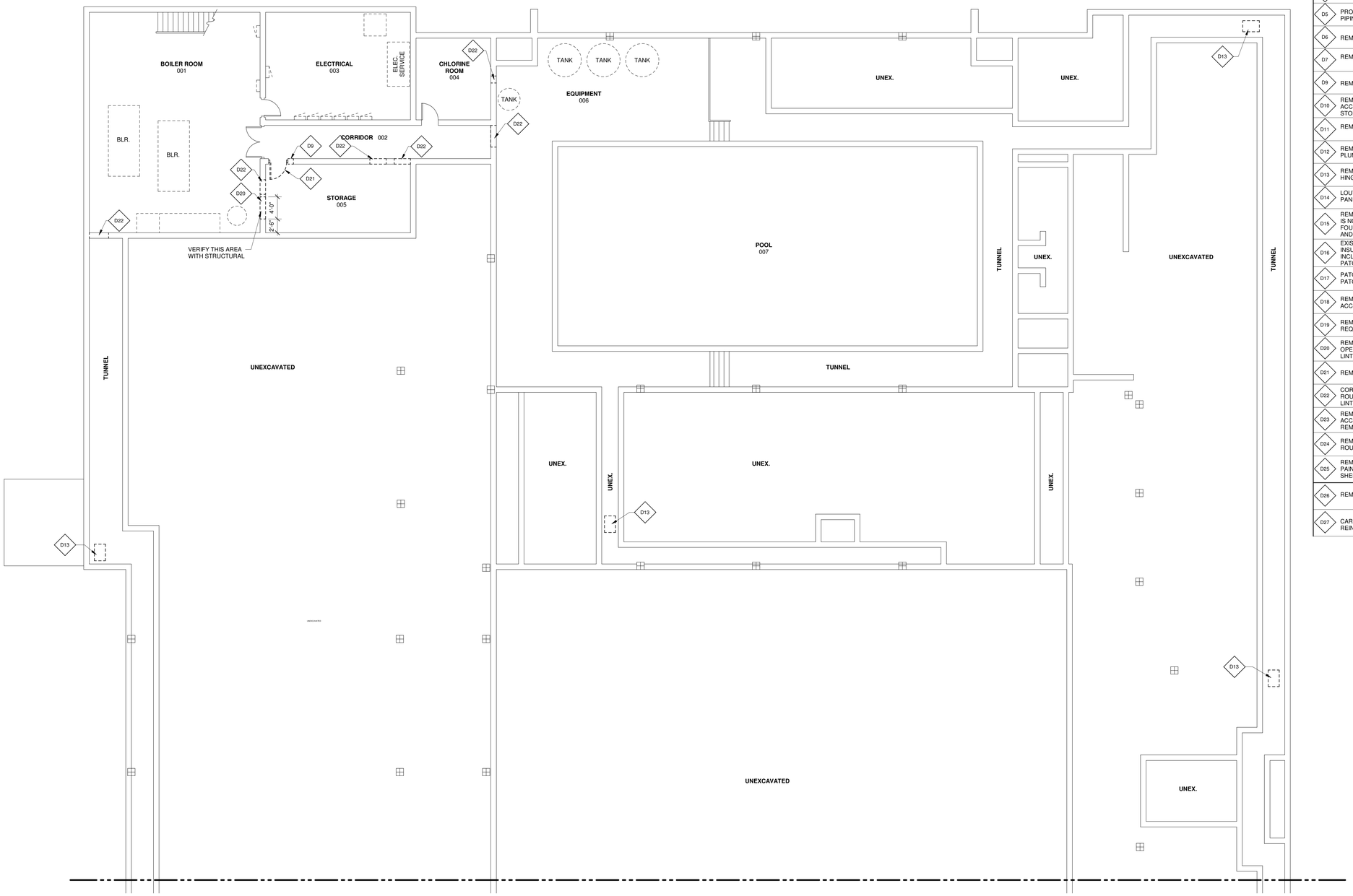
SECOND FLOOR FINISH SCHEDULE

SCALE

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

SHEET NUMBER

G2.04



BASEMENT FLOOR DEMOLITION PLAN - AREA A

1 — 1/8" = 1'-0"

NORTH

LEGEND

- DEMOLITION WORK
- NEW WORK

GENERAL NOTES

1. ALL ACCESS DOORS ON FIRST FLOOR LOCATED UNDERNEATH AN EXISTING CASE WORK, REMOVE CASEWORK , PATCH , PREP AND PAINT TO MATCH EXISTING ADJACENT SURFACE
2. FOR THE REMOVAL OF MECHANICAL DUCTWORK AND PIPING, REFER TO MECHANICAL DRAWINGS
3. GENERAL CONTRACTOR TO REMOVE EXISTING EXIT SIGNS , SURFACE MOUNTED CLOCKS, SECURITY CAMERAS, WALL MOUNTED EMERGENCY LIGHT PACK , WALL MOUNTED SPEAKERS , WALL MOUNTED ALARM BELL AND SALVAGE FOR REINSTALLATION AS REQUIRED TO ACCOMMODATE THE NEW WORK
4. THE EXTENT OF WALL AND FLOOR DEMOLITION IS SHOWN WHERE ANTICIPATED TO APPROXIMATE THE SCOPE OF WORK. THE INTENT IS TO ACCOMMODATE ALL MECHANICAL PIPING, DUCTWOR AND EQUIPMENT INSTALLATION. FINAL COORDINATION IS REQUIRED BETWEEN GENERAL CONTRACTOR AND MECHANICAL CONTRACTOR TO CONFIRM ON DRAWINGS AND AS REQUIRED BY THE MECHANICAL CONTRACTOR FOR THEIR INSTALLATION

DEMOLITION KEYNOTES

D1	CORE/REMOVE MASONRY AS NECESSARY TO ROUTE NEW DUCTWORK AND/OR PIPING. REMOVE FULL CMU AND OR BRICK. REFER TO STRUCTURAL DRAWINGS FOR LINTEL INFORMATION.
D2	PROVIDE OPENING IN GYPSUM BOARD WALL AS NECESSARY TO ROUTE NEW DUCTWORK AND/OR PIPING.
D3	REMOVE INTERIOR ENCLOSURE IN AREAS INDICATED - SEE MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.
D4	REMOVE EXISTING UNIT - SEE MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.
D5	PROVIDE OPENING IN EXISTING WALL AS NECESSARY TO ROUTE NEW PIPING/DUCTWORK.
D6	REMOVE EXISTING CONCRETE AREA WELL IN ITS ENTIRETY.
D7	REMOVE EXISTING CEILING SYSTEM IN ITS ENTIRETY
D9	REMOVE EXISTING CONCRETE WALL.
D10	REMOVE PLASTER/GYPSUM BOARD CEILING IN ITS ENTIRETY TO ACCOMMODATE NEW WORK. EXISTING GRILLES TO BE REMOVED AND STORED FOR REINSTALLATION.
D11	REMOVE EXISTING GRILL IN ITS ENTIRETY
D12	REMOVE STEAM CABINET HEATER - SEE MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION.
D13	REMOVE 2" x 3" STEEL ACCESS DOOR. PREP AREA TO RECEIVE NEW HINGED/ LOCKABLE DOOR.
D14	LOUVER ON VERTICAL WALL TO REMAIN. PROVIDE INSULATED BLANK OFF PANEL BEHIND LOUVER BY G.C.
D15	REMOVE EXISTING STORAGE ADDITION IN ITS ENTIRETY. THIS INCLUDES BUT IS NOT LIMITED TO THE REMOVAL OF EXTERIOR WALLS, CONCRETE SLAB, FOUNDATIONS, OVERHEAD DOOR, INTERIOR FINISHES, ROOFING SYSTEMS, AND ELECTRICAL, MECHANICAL, AND PLUMBING SYSTEMS.
D16	EXISTING LOUVER ON EXTERIOR WALL TO REMAIN TO OUTDOORS. INSULATE/PATCH ON INTERIOR WHERE UNIT WAS REMOVED. ALSO INCLUDES THE REMOVAL OF INTERIOR ENCLOSURE AND ANY REPAIR AND PATCHING OF WALL.
D17	PATCH WALL OPENING WHERE FAN WAS REMOVED. INSULATE WALL AND PATCH AND PAINT INTERIOR.
D18	REMOVE PLASTER/GYPSUM BOARD CEILING IN AREAS INDICATED TO ACCOMMODATE NEW WORK. .
D19	REMOVE FINISH FLOOR AS REQUIRED AND CORE CONCRETE SLAB AS REQUIRED TO ACCOMMODATE VERTICAL PIPING WORK.
D20	REMOVE PORTION OF EXISTING CONCRETE WALL TO PROVIDE A 4'-0" x 4' -0" OPENING TO ALLOW FOR NEW WORK. SEE STRUCTURAL DRAWINGS FOR LINTEL INFORMATION.
D21	REMOVE EXISTING DOOR IN ITS ENTIRETY.
D22	CORE/REMOVE PORTION OF EXISTING CONCRETE WALL AS REQUIRED TO ROUTE NEW PIPING/DUCTWORK. REFER TO STRUCTURAL DRAWINGS FOR LINTEL INFORMATION, IF REQUIRED.
D23	REMOVE EXISTING LOCKERS AND/OR SHELVING AS REQUIRED TO ACCOMODATE NEW WORK. RETURN LOCKERS AND SHELVING TO OWNER. REMOVE EXISTING LOCKER RISER IN ITS ENTIRETY.
D24	REMOVE PORTION OF EXISTING FORMICA PANELS TO AS NECESSARY TO ROUTE NEW DUCTWORK AND/OR PIPING.
D25	REMOVE EXISTING DRY ERASE WHITE BOARDS IN ITS ENTIRETY. PATCH AND PAINT WALL TO MATCH ADJACENT SURFACE IN COLOR, TEXTURE, AND SHEEN.
D26	REMOVE EXISTING GLAZING TO ACCOMMODATE NEW DUCTWORK
D27	CAREFULLY REMOVE EXISTING CASEWORK AND SALVAGE FOR REINSTALLATION

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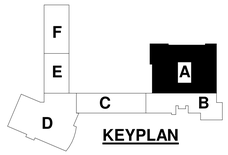
KEY PLAN



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SHEET INFORMATION

Issue	BID DOCUMENTS
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Job Number	21011.30
Drawn	CM / MI
Checked	MS
Approved	Approver

SHEET TITLE

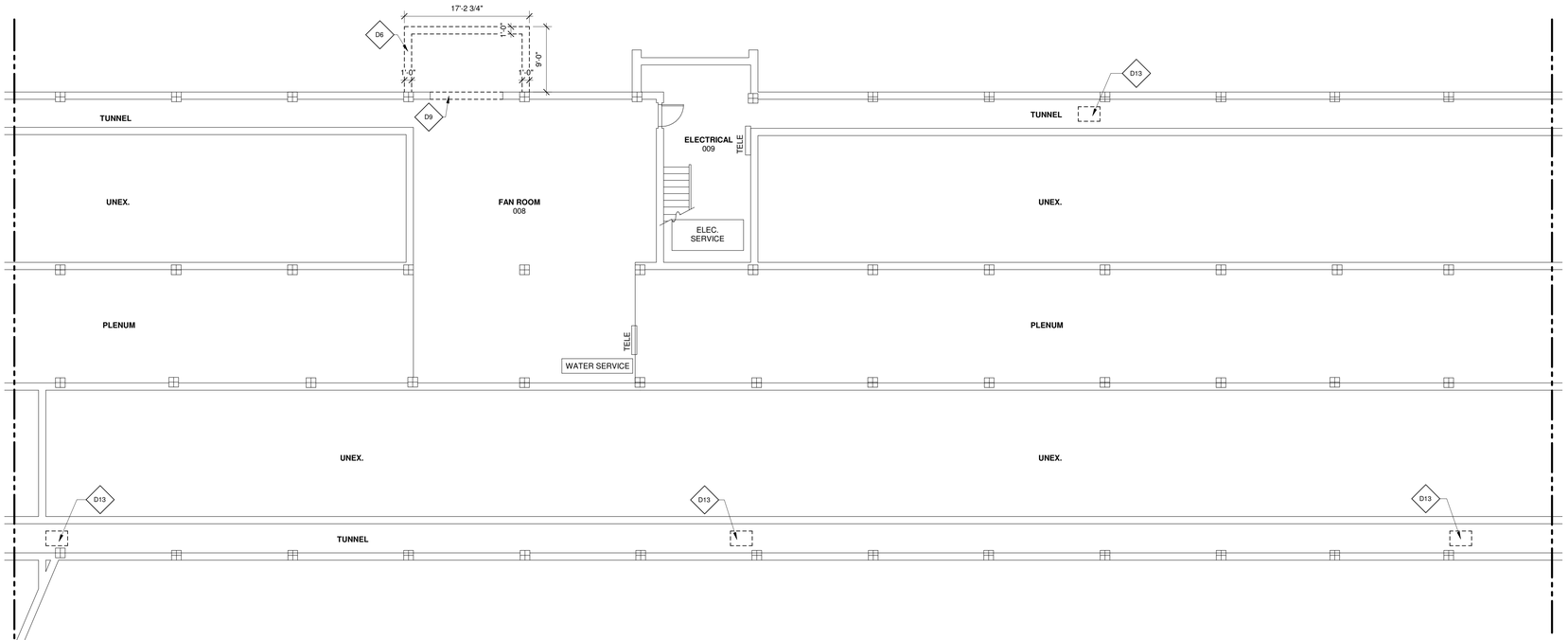
BASEMENT FLOOR DEMOLITION PLAN - AREA A

SCALE

Scale: As indicated

SHEET NUMBER

D1.00A



BASEMENT FLOOR DEMOLITION PLAN - AREA C

2

1/8" = 1'-0"

NORTH

LEGEND

	DEMOLITION WORK
	NEW WORK

GENERAL NOTES

1. ALL ACCESS DOORS ON FIRST FLOOR LOCATED UNDERNEATH AN EXISTING CASE WORK, REMOVE CASEWORK , PATCH , PREP AND PAINT TO MATCH EXISTING ADJACENT SURFACE.
2. FOR THE REMOVAL OF MECHANICAL DUCTWORK AND PIPING, REFER TO MECHANICAL DRAWINGS
3. GENERAL CONTRACTOR TO REMOVE EXISTING EXIT SIGNS , SURFACE MOUNTED CLOCKS, SECURITY CAMERAS, WALL MOUNTED EMERGENCY LIGHT PACK , WALL MOUNTED SPEAKERS , WALL MOUNTED ALARM BELL AND SALVAGE FOR REINSTALLATION AS REQUIRED TO ACCOMMODATE THE NEW WORK
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DEMOLITION KEYNOTES

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D3	REMOVE INTERIOR ENCLOSURE IN AREAS INDICATED - SEE MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.
D4	REMOVE EXISTING UNIT - SEE MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.
D5	PROVIDE OPENING IN EXISTING WALL AS NECESSARY TO ROUTE NEW PIPING/DUCTWORK.
D6	REMOVE EXISTING CONCRETE AREA WELL IN ITS ENTIRETY.
D7	REMOVE EXISTING CEILING SYSTEM IN ITS ENTIRETY
D9	REMOVE EXISTING CONCRETE WALL.
D10	REMOVE PLASTER/GYPSUM BOARD CEILING IN ITS ENTIRETY TO ACCOMMODATE NEW WORK. EXISTING GRILLES TO BE REMOVED AND STORED FOR REINSTALLATION.
D11	REMOVE EXISTING GRILL IN ITS ENTIRETY
D12	REMOVE STEAM CABINET HEATER - SEE MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION.
D13	REMOVE 2" x 3" STEEL ACCESS DOOR. PREP AREA TO RECEIVE NEW HINGED/ LOCKABLE DOOR.
D14	LOUVER ON VERTICAL WALL TO REMAIN. PROVIDE INSULATED BLANK OFF PANEL BEHIND LOUVER BY G.C.
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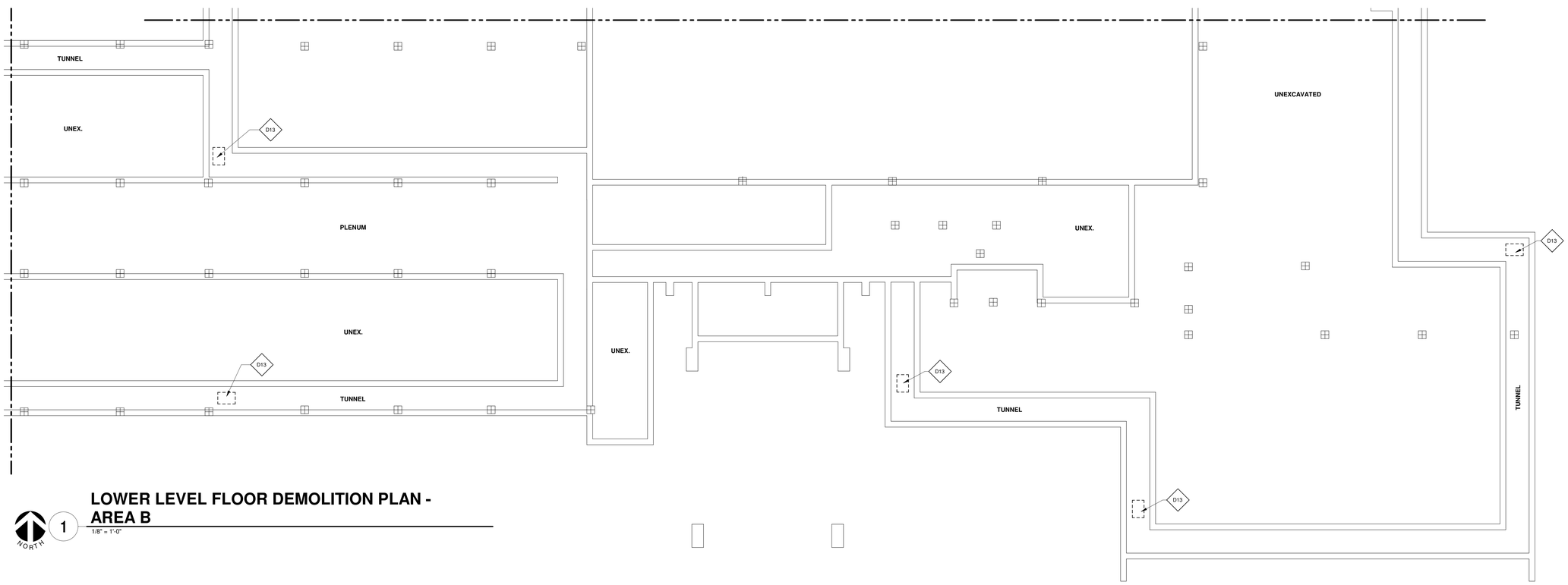
D26	REMOVE EXISTING GLAZING TO ACCOMMODATE NEW DUCTWORK
D27	CAREFULLY REMOVE EXISTING CASEWORK AND SALVAGE FOR REINSTALLATION



LOWER LEVEL FLOOR DEMOLITION PLAN - AREA B

1

1/8" = 1'-0"

NORTH

IMEG

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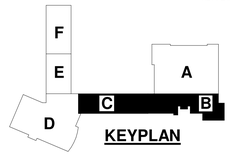
KEY PLAN



KEYPLAN

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REVISIONS

No.	Date	Revision / Issue

SHEET INFORMATION

Issue	BID DOCUMENTS
Date	JANUARY 28 , 2022
Job Number	21011.30
Drawn	CM / MI
Checked	MS
Approved	Approver

SHEET TITLE

BASEMENT FLOOR DEMOLITION PLAN - AREAS B & C

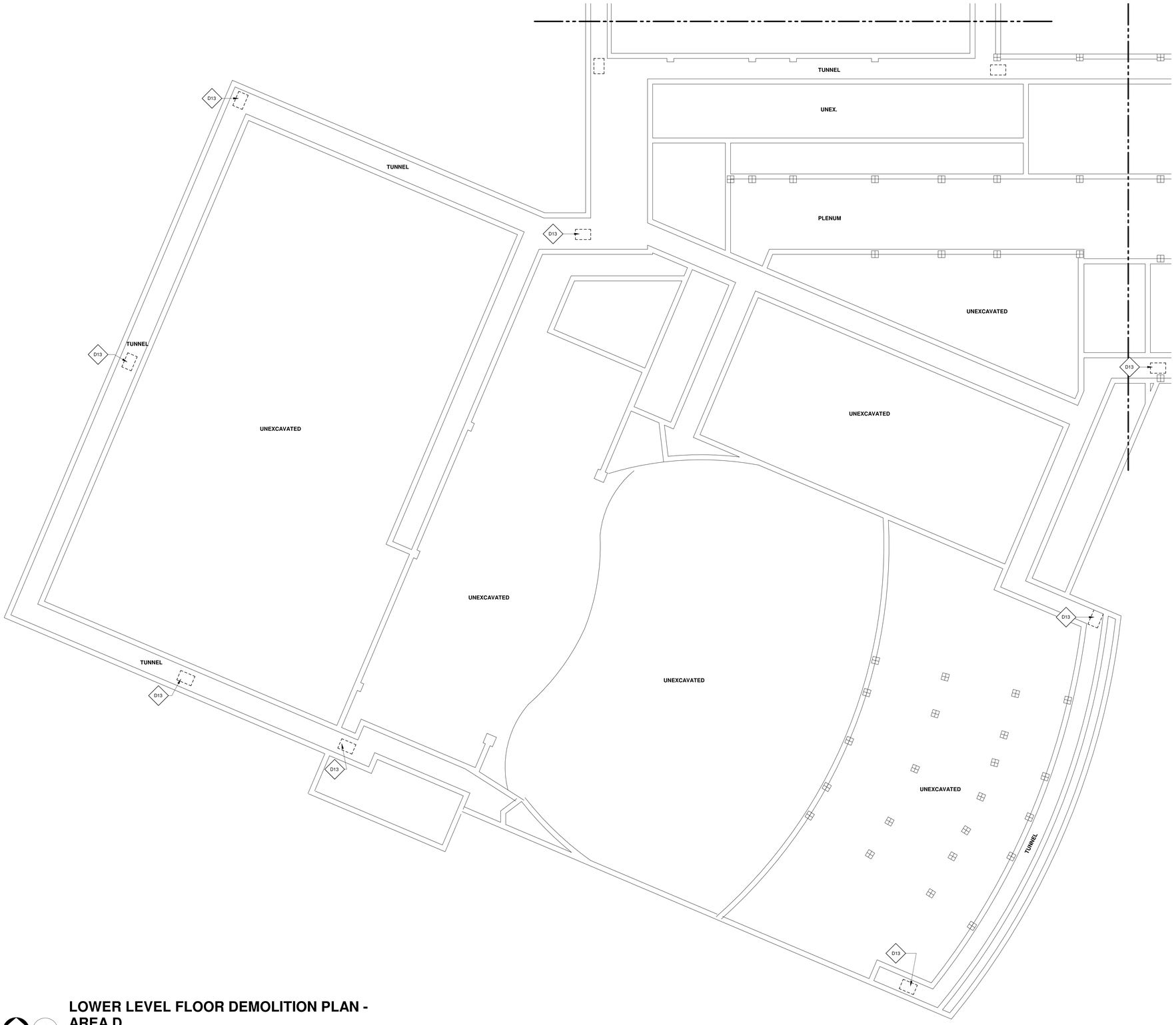
SCALE

Scale: As indicated

SHEET NUMBER

D1.00B

21011.30 28/01/2022 16:19:47 ESSER HVAC Improvements - Flinn Middle School



LOWER LEVEL FLOOR DEMOLITION PLAN - AREA D

1

1/8" = 1'-0"

NORTH

LEGEND

	DEMOLITION WORK
	NEW WORK

GENERAL NOTES

1. ALL ACCESS DOORS ON FIRST FLOOR LOCATED UNDERNEATH AN EXISTING CASE WORK, REMOVE CASEWORK , PATCH , PREP AND PAINT TO MATCH EXISTING ADJACENT SURFACE
2. FOR THE REMOVAL OF MECHANICAL DUCTWORK AND PIPING, REFER TO MECHANICAL DRAWINGS
3. GENERAL CONTRACTOR TO REMOVE EXISTING EXIT SIGNS , SURFACE MOUNTED CLOCKS, SECURITY CAMERAS, WALL MOUNTED EMERGENCY LIGHT PACK , WALL MOUNTED SPEAKERS , WALL MOUNTED ALARM BELL AND SALVAGE FOR REINSTALLATION AS REQUIRED TO ACCOMMODATE THE NEW WORK
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DEMOLITION KEYNOTES

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D2	PROVIDE OPENING IN GYPSUM BOARD WALL AS NECESSARY TO ROUTE NEW DUCTWORK AND/OR PIPING.
D3	REMOVE INTERIOR ENCLOSURE IN AREAS INDICATED - SEE MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.
D4	REMOVE EXISTING UNIT - SEE MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.
D5	PROVIDE OPENING IN EXISTING WALL AS NECESSARY TO ROUTE NEW PIPING/DUCTWORK.
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D7	REMOVE EXISTING CEILING SYSTEM IN ITS ENTIRETY
D9	REMOVE EXISTING CONCRETE WALL.
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D11	REMOVE EXISTING GRILL IN ITS ENTIRETY
D12	REMOVE STEAM CABINET HEATER - SEE MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION.
D13	REMOVE 2" x 3" STEEL ACCESS DOOR. PREP AREA TO RECEIVE NEW HINGED/ LOCKABLE DOOR.
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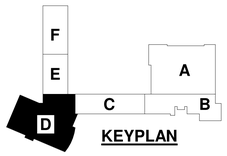
KEY PLAN



KEYPLAN

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SHEET INFORMATION

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Drawn	CM / MI
Checked	MS
Approved	Approver

SHEET TITLE

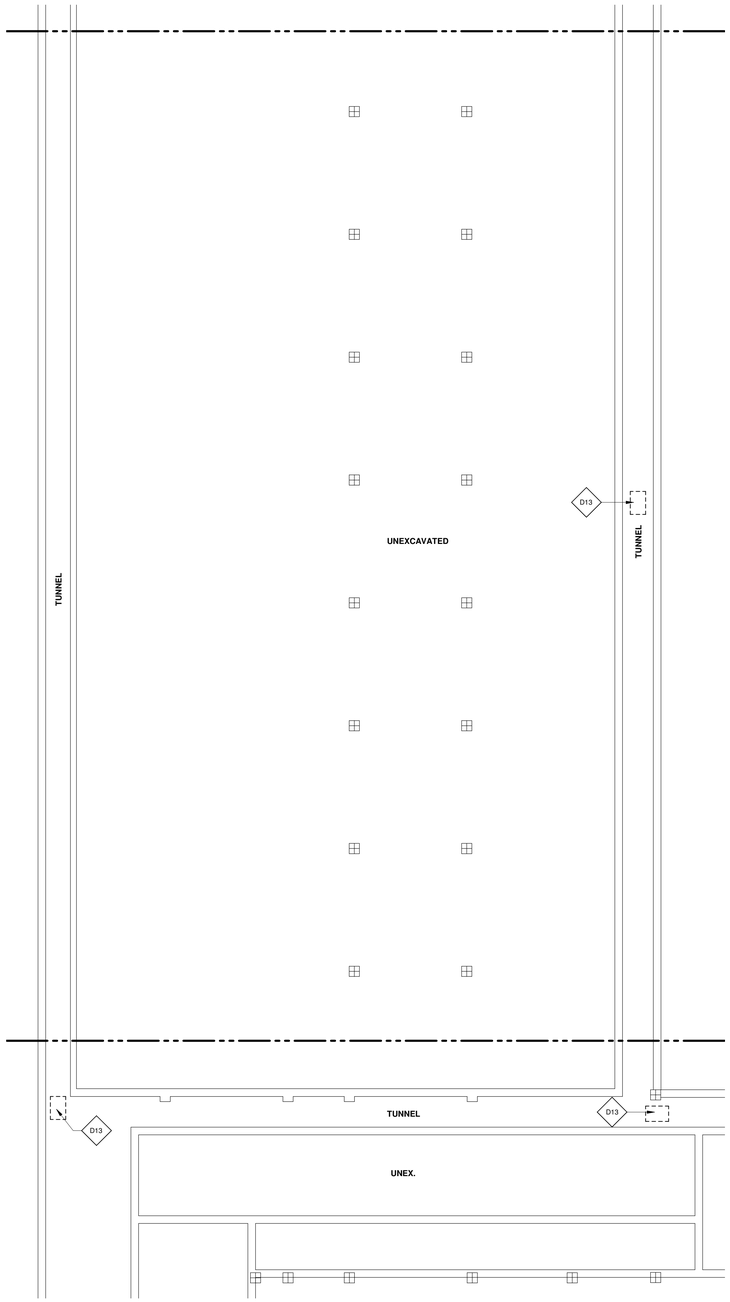
LOWER LEVEL FLOOR DEMOLITION PLAN - AREA D

SCALE

Scale: As indicated

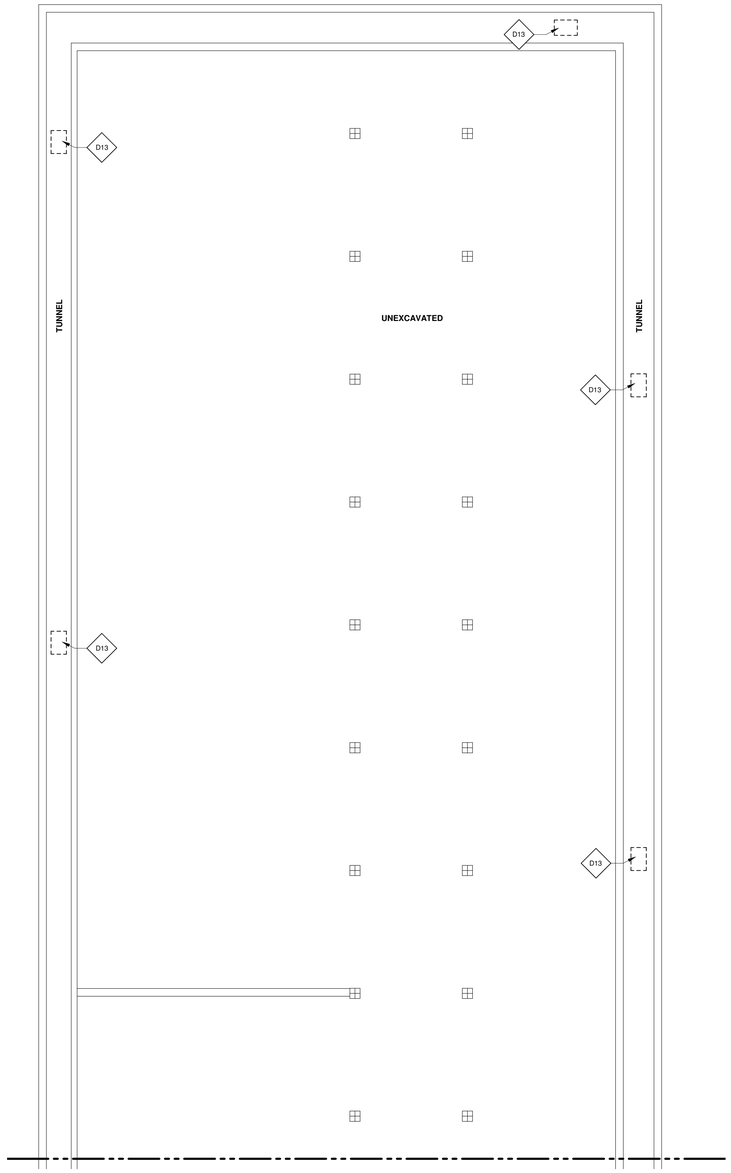
SHEET NUMBER

D1.00D



BASEMENT FLOOR DEMOLITION PLAN - AREA E

1 — 1/8" = 1'-0"



BASEMENT FLOOR DEMOLITION PLAN - AREA F

2 — 1/8" = 1'-0"

LEGEND

- DEMOLITION WORK
- NEW WORK

GENERAL NOTES

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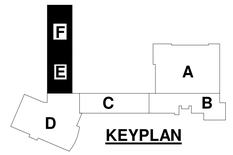

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SHEET INFORMATION

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Date	JANUARY 28 , 2022
Job Number	21011.30
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Approved	Approver

SHEET TITLE

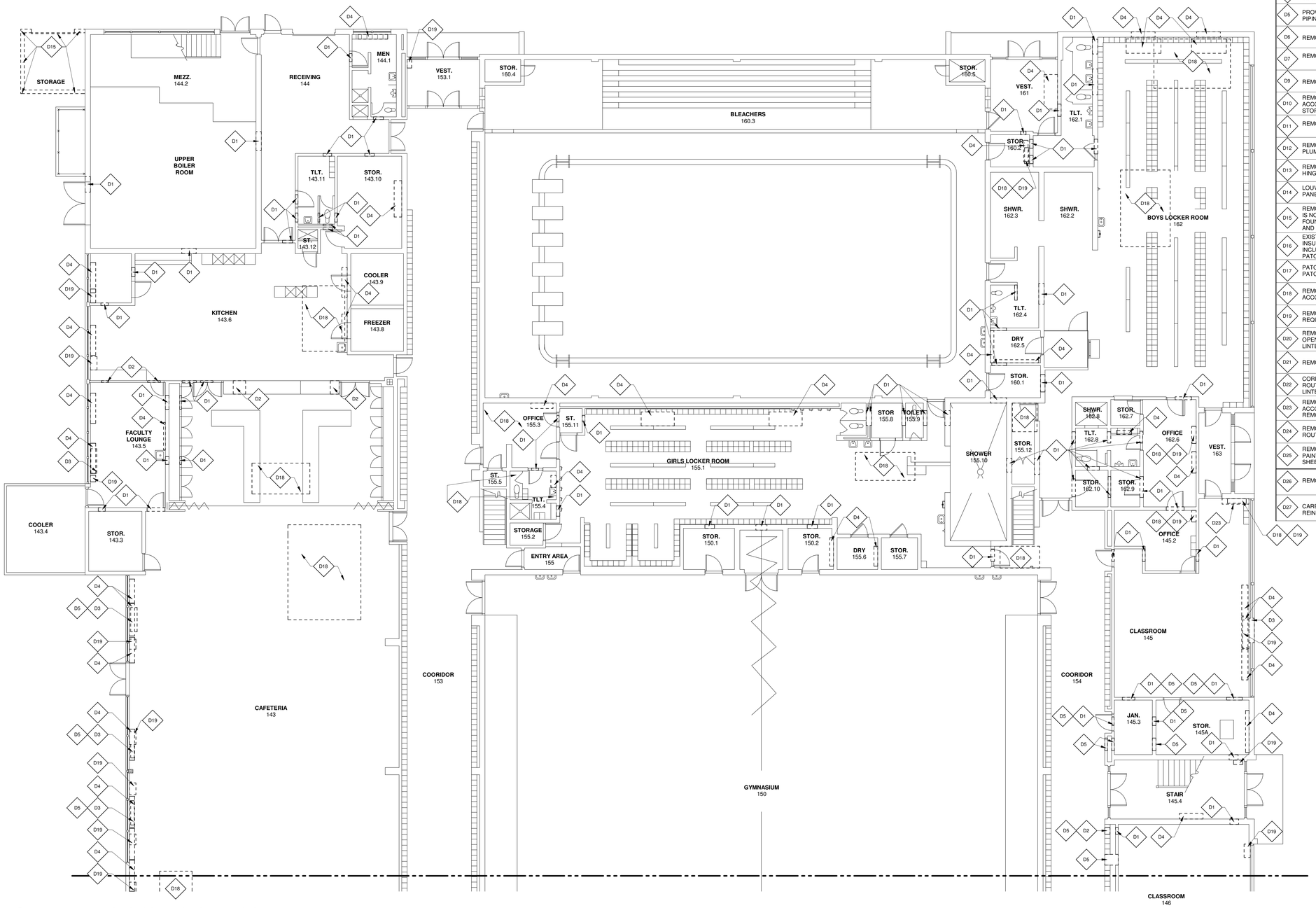
BASEMENT FLOOR DEMOLITION PLAN - AREAS E & F

SCALE

Scale: As indicated

SHEET NUMBER

D1.00E



1 **DEMOLITION FIRST FLOOR PLAN - AREA A**

1/8" = 1'-0"

LEGEND

- DEMOLITION WORK
- NEW WORK

GENERAL NOTES

1. ALL ACCESS DOORS ON FIRST FLOOR LOCATED UNDERNEATH AN EXISTING CASE WORK, REMOVE CASEWORK , PATCH , PREP AND PAINT TO MATCH EXISTING ADJACENT SURFACE
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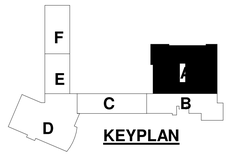
KEY PLAN



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Checked	MS
Approved	Approver

SHEET TITLE

FIRST FLOOR DEMOLITION PLAN - AREA A

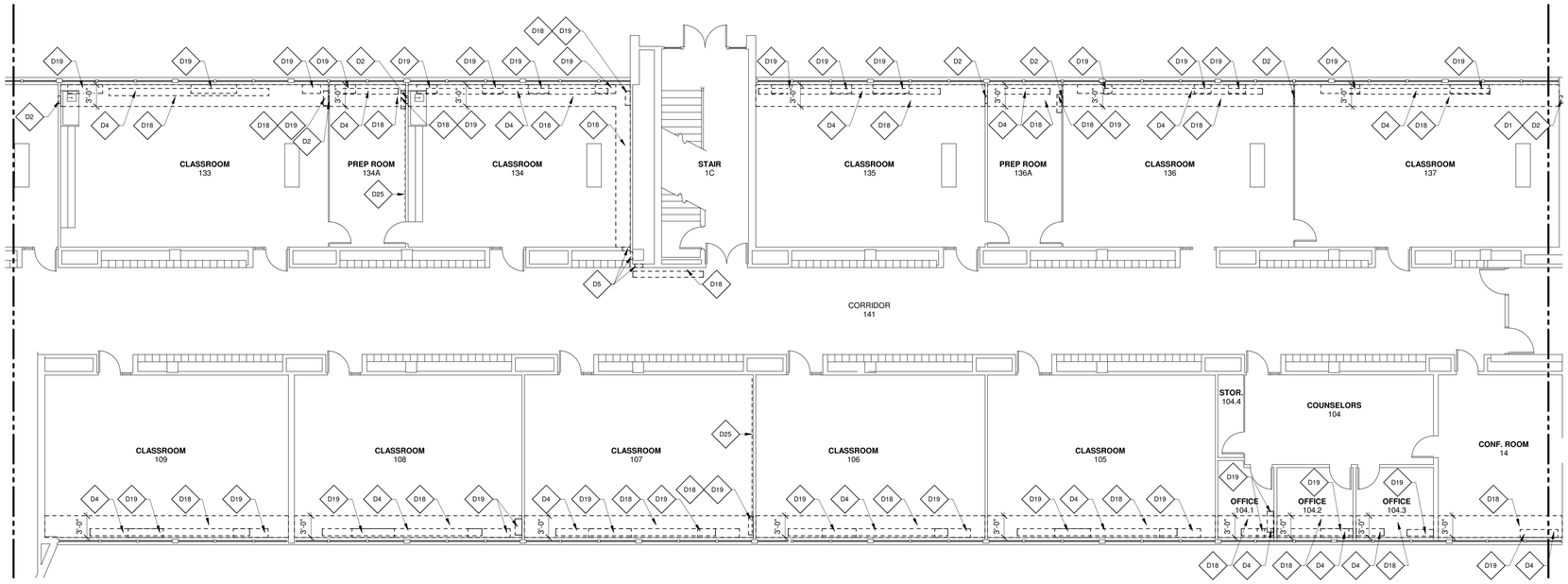
SCALE

Scale: As indicated

SHEET NUMBER

D1.01A

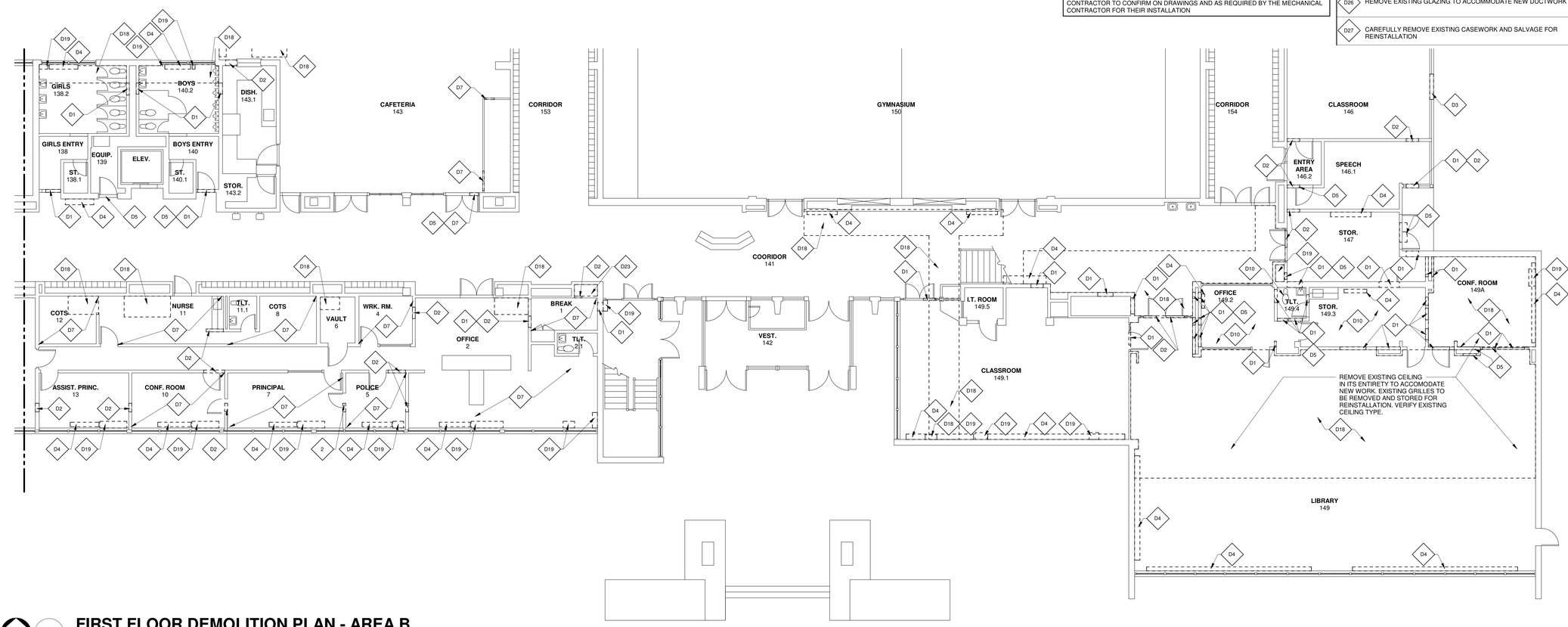
21011.30 28/01/2022 16:19:52 ESSER HVAC Improvements - Flinn Middle School



2 FIRST FLOOR DEMOLITION PLAN - AREA C

1/8" = 1'-0"

NORTH



1 FIRST FLOOR DEMOLITION PLAN - AREA B

1/8" = 1'-0"

NORTH

GENERAL NOTES

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D2	PROVIDE OPENING IN GYPSUM BOARD WALL AS NECESSARY TO ROUTE NEW DUCTWORK AND/OR PIPING.
D3	REMOVE INTERIOR ENCLOSURE IN AREAS INDICATED - SEE MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.
D4	REMOVE EXISTING UNIT - SEE MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.
D5	PROVIDE OPENING IN EXISTING WALL AS NECESSARY TO ROUTE NEW PIPING/DUCTWORK.
D6	REMOVE EXISTING CONCRETE AREA WELL IN ITS ENTIRETY.
D7	REMOVE EXISTING CEILING SYSTEM IN ITS ENTIRETY
D9	REMOVE EXISTING CONCRETE WALL.
D10	REMOVE PLASTER/GYPSUM BOARD CEILING IN ITS ENTIRETY TO ACCOMMODATE NEW WORK. EXISTING GRILLES TO BE REMOVED AND STORED FOR REINSTALLATION.
D11	REMOVE EXISTING GRILL IN ITS ENTIRETY
D12	REMOVE STEAM CABINET HEATER - SEE MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION.
D13	REMOVE 2" x 3" STEEL ACCESS DOOR. PREP AREA TO RECEIVE NEW HINGED/ LOCKABLE DOOR.
D14	LOUVER ON VERTICAL WALL TO REMAIN. PROVIDE INSULATED BLANK OFF PANEL BEHIND LOUVER BY G.C.
D15	REMOVE EXISTING STORAGE ADDITION IN ITS ENTIRETY. THIS INCLUDES BUT IS NOT LIMITED TO THE REMOVAL OF EXTERIOR WALLS, CONCRETE SLAB, FOUNDATIONS, OVERHEAD DOOR, INTERIOR FINISHES, ROOFING SYSTEMS, AND ELECTRICAL, MECHANICAL, AND PLUMBING SYSTEMS.
D16	EXISTING LOUVER ON EXTERIOR WALL TO REMAIN TO OUTDOORS. INSULATE/PATCH ON INTERIOR WHERE UNIT WAS REMOVED. ALSO INCLUDES THE REMOVAL OF INTERIOR ENCLOSURE AND ANY REPAIR AND PATCHING OF WALL.
D17	PATCH WALL OPENING WHERE FAN WAS REMOVED. INSULATE WALL AND PATCH AND PAINT INTERIOR.
D18	REMOVE PLASTER/GYPSUM BOARD CEILING IN AREAS INDICATED TO ACCOMMODATE NEW WORK. .
D19	REMOVE FINISH FLOOR AS REQUIRED AND CORE CONCRETE SLAB AS REQUIRED TO ACCOMMODATE VERTICAL PIPING WORK.
D20	REMOVE PORTION OF EXISTING CONCRETE WALL TO PROVIDE A 4'-0" x 4' -0" OPENING TO ALLOW FOR NEW WORK. SEE STRUCTURAL DRAWINGS FOR LINTEL INFORMATION.
D21	REMOVE EXISTING DOOR IN ITS ENTIRETY.
D22	CORE/REMOVE PORTION OF EXISTING CONCRETE WALL AS REQUIRED TO ROUTE NEW PIPING/DUCTWORK. REFER TO STRUCTURAL DRAWINGS FOR LINTEL INFORMATION, IF REQUIRED.
D23	REMOVE EXISTING LOCKERS AND/OR SHELVING AS REQUIRED TO ACCOMODATE NEW WORK. RETURN LOCKERS AND SHELVING TO OWNER. REMOVE EXISTING LOCKER RISER IN ITS ENTIRETY.
D24	REMOVE PORTION OF EXISTING FORMICA PANELS TO AS NECESSARY TO ROUTE NEW DUCTWORK AND/OR PIPING.
D25	REMOVE EXISTING DRY ERASE WHITE BOARDS IN ITS ENTIRETY. PATCH AND PAINT WALL TO MATCH ADJACENT SURFACE IN COLOR, TEXTURE, AND SHEEN.
D26	REMOVE EXISTING GLAZING TO ACCOMMODATE NEW DUCTWORK
D27	CAREFULLY REMOVE EXISTING CASEWORK AND SALVAGE FOR REINSTALLATION

LEGEND

- DEMOLITION WORK
- NEW WORK

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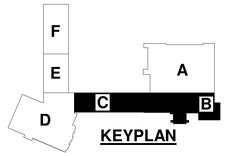
KEY PLAN



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REVISIONS

No.	Date	Revision / Issue

SHEET INFORMATION

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Drawn	CM / MI
Checked	MS
Approved	Approver

SHEET TITLE

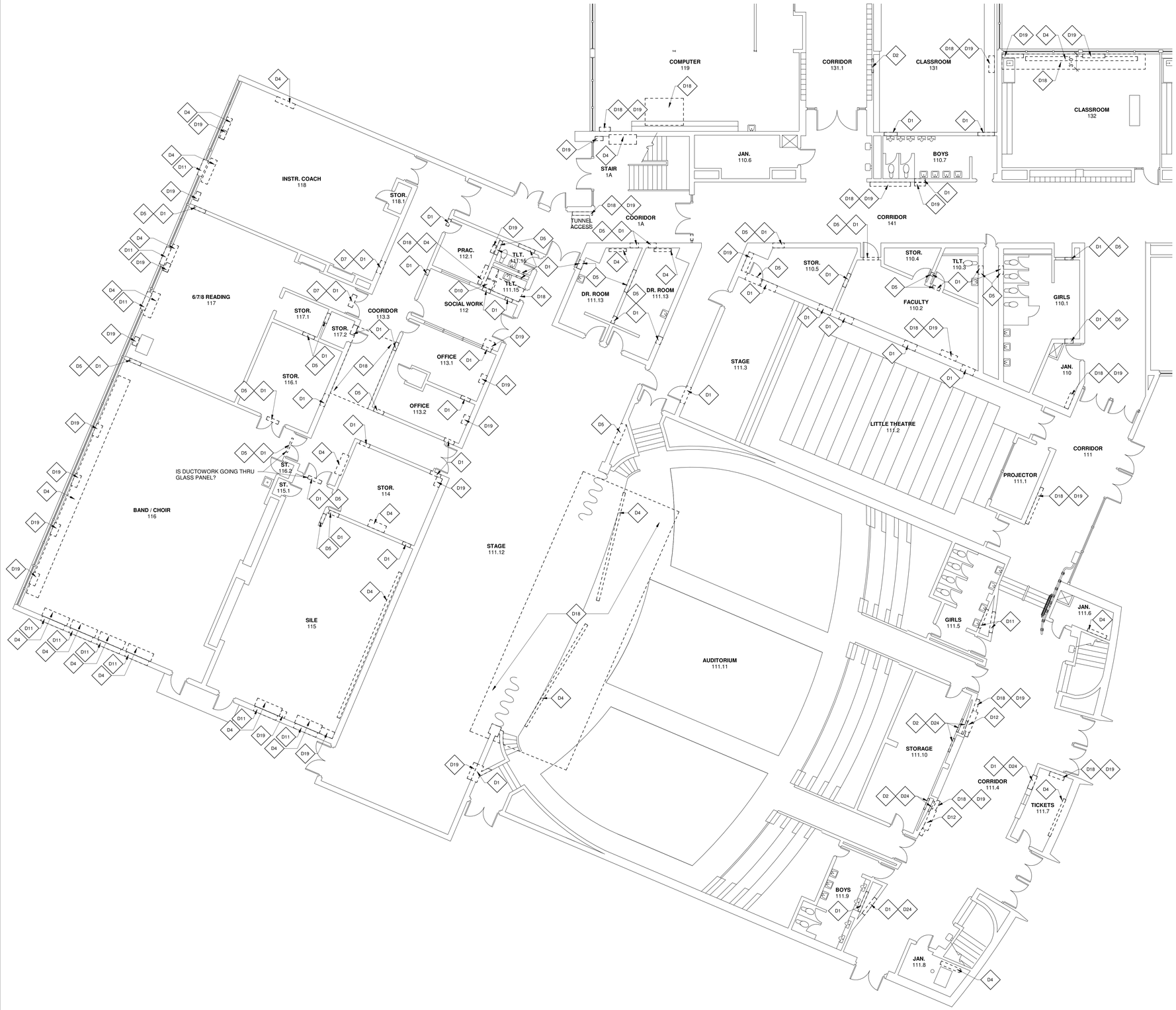
FIRST FLOOR DEMOLITION PLAN - AREA B & C

SCALE

Scale: As indicated

SHEET NUMBER

D1.01B



NORTH

1

FIRST FLOOR DEMOLITION PLAN - AREA D

1/8" = 1'-0"

LEGEND

- DEMOLITION WORK
- NEW WORK

GENERAL NOTES

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3. GENERAL CONTRACTOR TO REMOVE EXISTING EXIT SIGNS , SURFACE MOUNTED CLOCKS, SECURITY CAMERAS, WALL MOUNTED EMERGENCY LIGHT PACK , WALL MOUNTED SPEAKERS , WALL MOUNTED ALARM BELL AND SALVAGE FOR REINSTALLATION AS REQUIRED TO ACCOMMODATE THE NEW WORK
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DEMOLITION KEYNOTES

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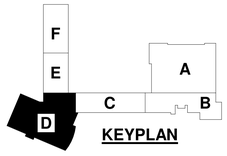

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SHEET TITLE

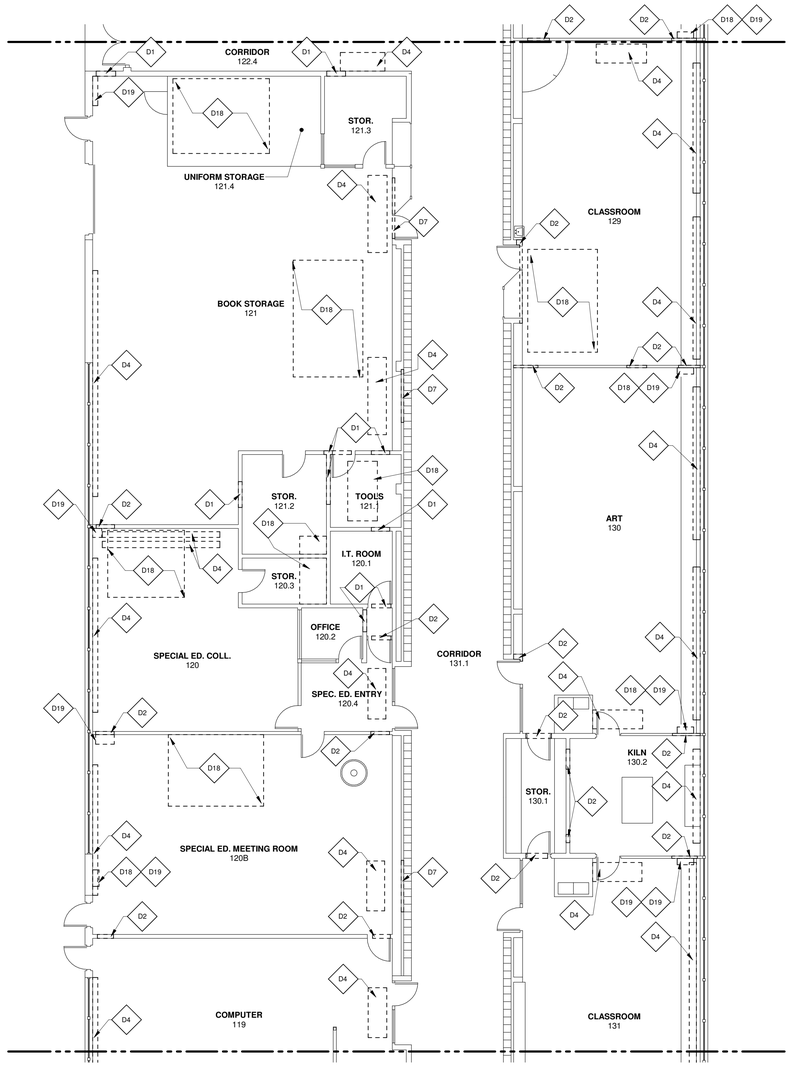
FIRST FLOOR DEMOLITION PLAN - AREA D

SCALE

Scale: As indicated

SHEET NUMBER

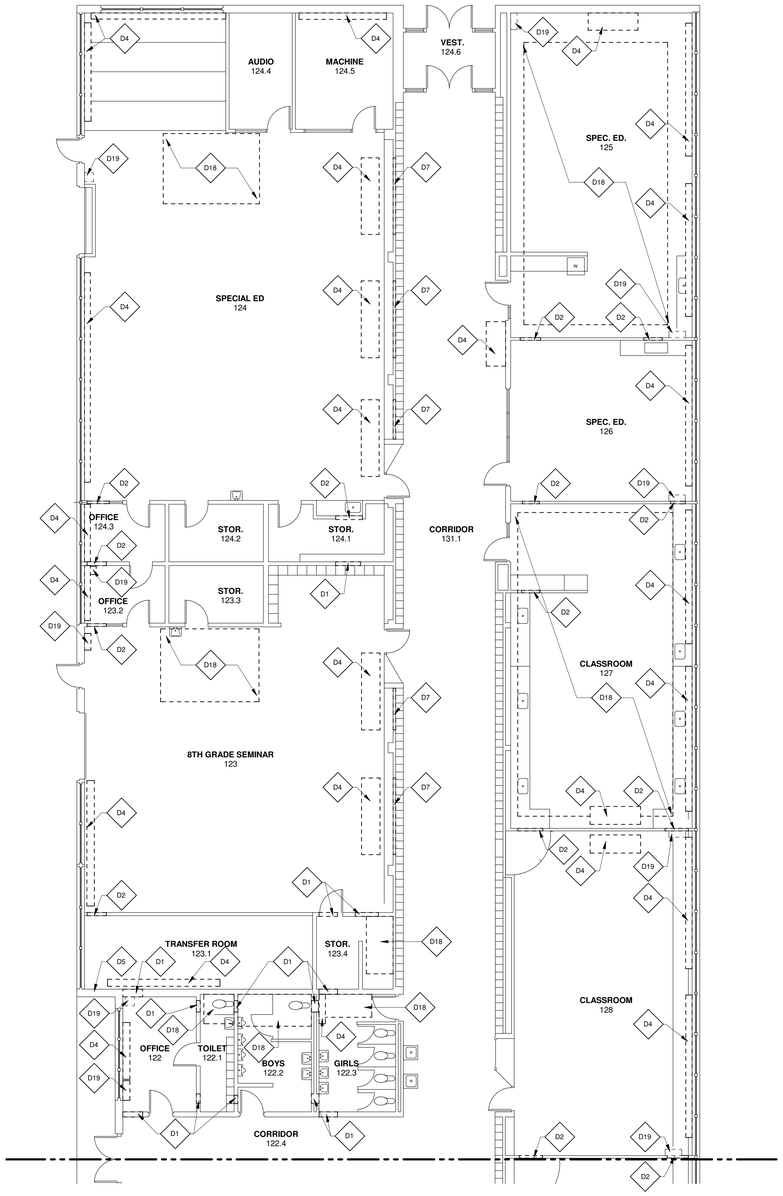
D1.01D



NORTH

1 **FIRST FLOOR DEMOLITION PLAN - AREA E**

1/8" = 1'-0"



NORTH

2 **FIRST FLOOR DEMOLITION PLAN - AREA F**

1/8" = 1'-0"

LEGEND

- DEMOLITION WORK
- NEW WORK

GENERAL NOTES

1. ALL ACCESS DOORS ON FIRST FLOOR LOCATED UNDERNEATH AN EXISTING CASE WORK, REMOVE CASEWORK , PATCH , PREP AND PAINT TO MATCH EXISTING ADJACENT SURFACE.
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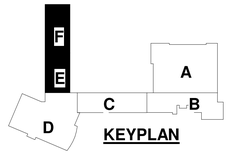

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Approved	Approver

SHEET TITLE

FIRST FLOOR DEMOLITION PLAN - AREAS E & F

SCALE

Scale: As indicated

SHEET NUMBER

D1.01E

GENERAL NOTES

1. ALL ACCESS DOORS ON FIRST FLOOR LOCATED UNDERNEATH AN EXISTING CASE WORK, REMOVE CASEWORK , PATCH , PREP AND PAINT TO MATCH EXISTING ADJACENT SURFACE
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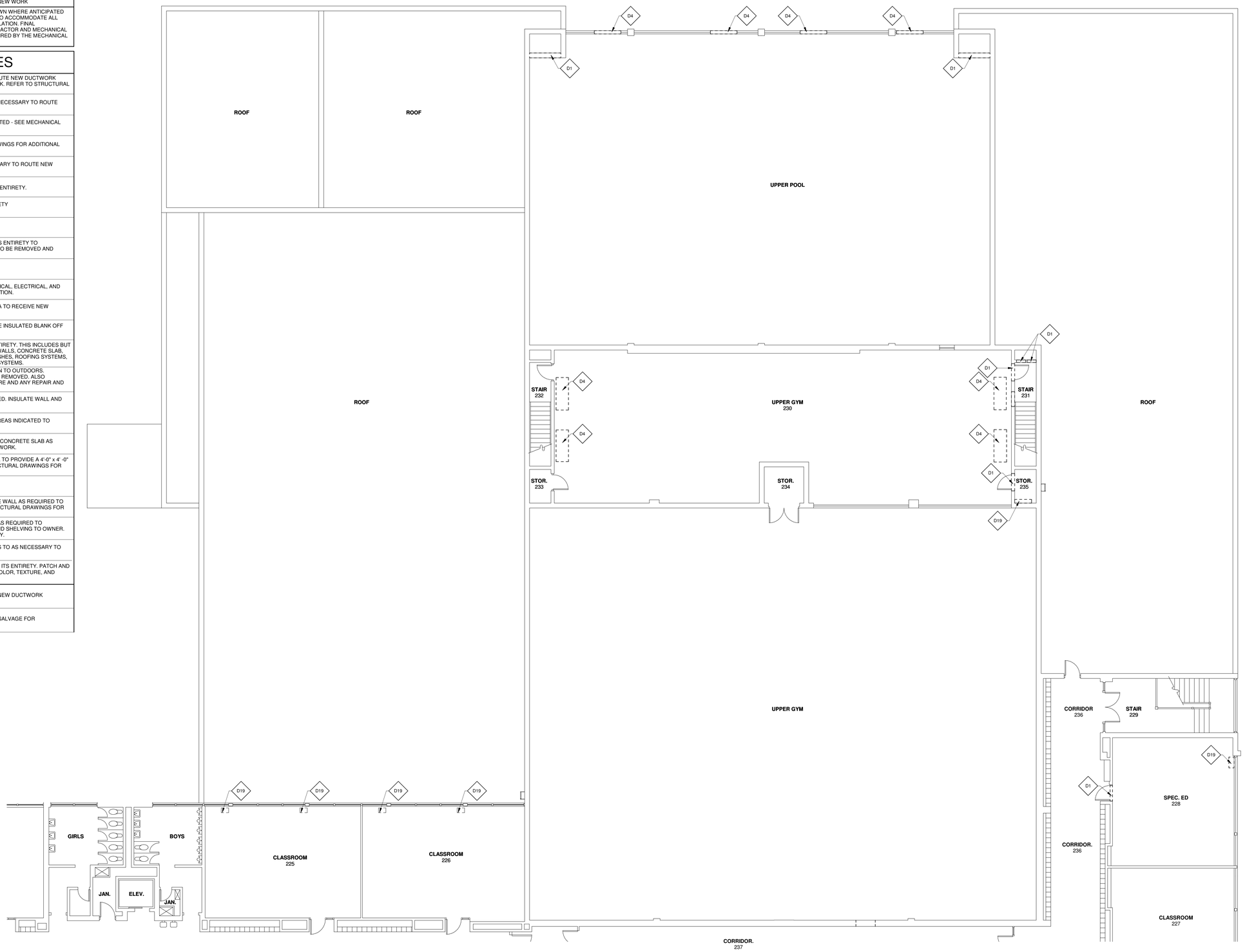

NORTH

1 **SECOND FLOOR DEMOLITION PLAN - AREA A**

1/8" = 1'-0"

LEGEND

- DEMOLITION WORK
- NEW WORK

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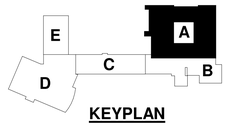

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SECOND FLOOR DEMOLITION PLAN - AREA A

SCALE

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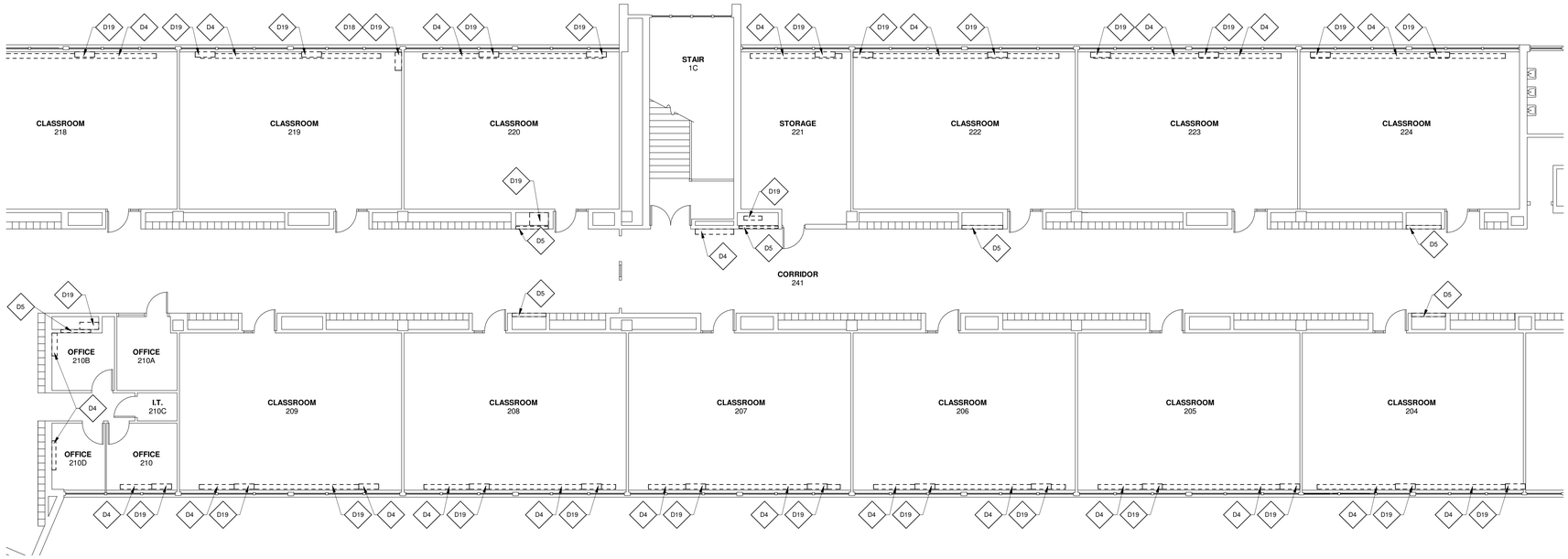
SHEET NUMBER

D1.02A

21011.30 28/01/2022 16:20:03 ESSER HVAC Improvements - Flinn Middle School



2 DEMOLITION SECOND FLOOR PLAN - AREA C

1/8" = 1'-0"

NORTH

LEGEND

- DEMOLITION WORK
- NEW WORK

GENERAL NOTES

1. ALL ACCESS DOORS ON FIRST FLOOR LOCATED UNDERNEATH AN EXISTING CASE WORK, REMOVE CASEWORK , PATCH , PREP AND PAINT TO MATCH EXISTING ADJACENT SURFACE
2. FOR THE REMOVAL OF MECHANICAL DUCTWORK AND PIPING, REFER TO MECHANICAL DRAWINGS
3. GENERAL CONTRACTOR TO REMOVE EXISTING EXIT SIGNS , SURFACE MOUNTED CLOCKS, SECURITY CAMERAS, WALL MOUNTED EMERGENCY LIGHT PACK , WALL MOUNTED SPEAKERS , WALL MOUNTED ALARM BELL AND SALVAGE FOR REINSTALLATION AS REQUIRED TO ACCOMMODATE THE NEW WORK
4. THE EXTENT OF WALL AND FLOOR DEMOLITION IS SHOWN WHERE ANTICIPATED TO APPROXIMATE THE SCOPE OF WORK. THE INTENT IS TO ACCOMMODATE ALL MECHANICAL PIPING, DUCTWOR AND EQUIPMENT INSTALLATION. FINAL COORDINATION IS REQUIRED BETWEEN GENERAL CONTRACTOR AND MECHANICAL CONTRACTOR TO CONFIRM ON DRAWINGS AND AS REQUIRED BY THE MECHANICAL CONTRACTOR FOR THEIR INSTALLATION

DEMOLITION KEYNOTES

D1	CORE/REMOVE MASONRY AS NECESSARY TO ROUTE NEW DUCTWORK AND/OR PIPING. REMOVE FULL CMU AND OR BRICK. REFER TO STRUCTURAL DRAWINGS FOR LINTEL INFORMATION.
D2	PROVIDE OPENING IN GYPSUM BOARD WALL AS NECESSARY TO ROUTE NEW DUCTWORK AND/OR PIPING.
D3	REMOVE INTERIOR ENCLOSURE IN AREAS INDICATED - SEE MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.
D4	REMOVE EXISTING UNIT - SEE MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.
D5	PROVIDE OPENING IN EXISTING WALL AS NECESSARY TO ROUTE NEW PIPING/DUCTWORK.
D6	REMOVE EXISTING CONCRETE AREA WELL IN ITS ENTIRETY.
D7	REMOVE EXISTING CEILING SYSTEM IN ITS ENTIRETY
D9	REMOVE EXISTING CONCRETE WALL.
D10	REMOVE PLASTER/GYPSUM BOARD CEILING IN ITS ENTIRETY TO ACCOMMODATE NEW WORK. EXISTING GRILLES TO BE REMOVED AND STORED FOR REINSTALLATION.
D11	REMOVE EXISTING GRILL IN ITS ENTIRETY
D12	REMOVE STEAM CABINET HEATER - SEE MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION.
D13	REMOVE 2" x 3" STEEL ACCESS DOOR. PREP AREA TO RECEIVE NEW HINGED/ LOCKABLE DOOR.
D14	LOUVER ON VERTICAL WALL TO REMAIN. PROVIDE INSULATED BLANK OFF PANEL BEHIND LOUVER BY G.C.
D15	REMOVE EXISTING STORAGE ADDITION IN ITS ENTIRETY. THIS INCLUDES BUT IS NOT LIMITED TO THE REMOVAL OF EXTERIOR WALLS, CONCRETE SLAB, FOUNDATIONS, OVERHEAD DOOR, INTERIOR FINISHES, ROOFING SYSTEMS, AND ELECTRICAL, MECHANICAL, AND PLUMBING SYSTEMS.
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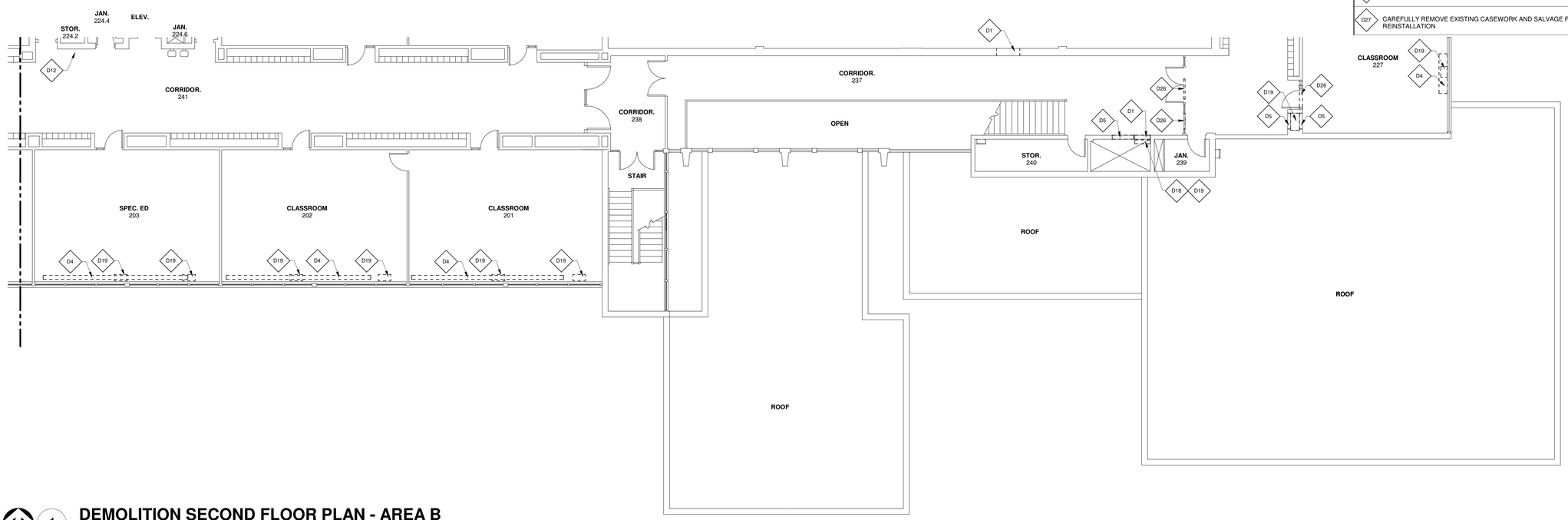
D26	REMOVE EXISTING GLAZING TO ACCOMMODATE NEW DUCTWORK
D27	CAREFULLY REMOVE EXISTING CASEWORK AND SALVAGE FOR REINSTALLATION



1 DEMOLITION SECOND FLOOR PLAN - AREA B

1/8" = 1'-0"

NORTH

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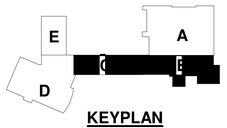
KEY PLAN



KEYPLAN

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REFERENCE SCALE IN INCHES

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REVISIONS

No.	Date	Revision / Issue

SHEET INFORMATION

Issue	BID DOCUMENTS
Date	JANUARY 28 , 2022
Job Number	21011.30
Drawn	CM / MI
Checked	MS
Approved	Approver

SHEET TITLE

SECOND FLOOR DEMOLITION PLAN - AREAS B & C

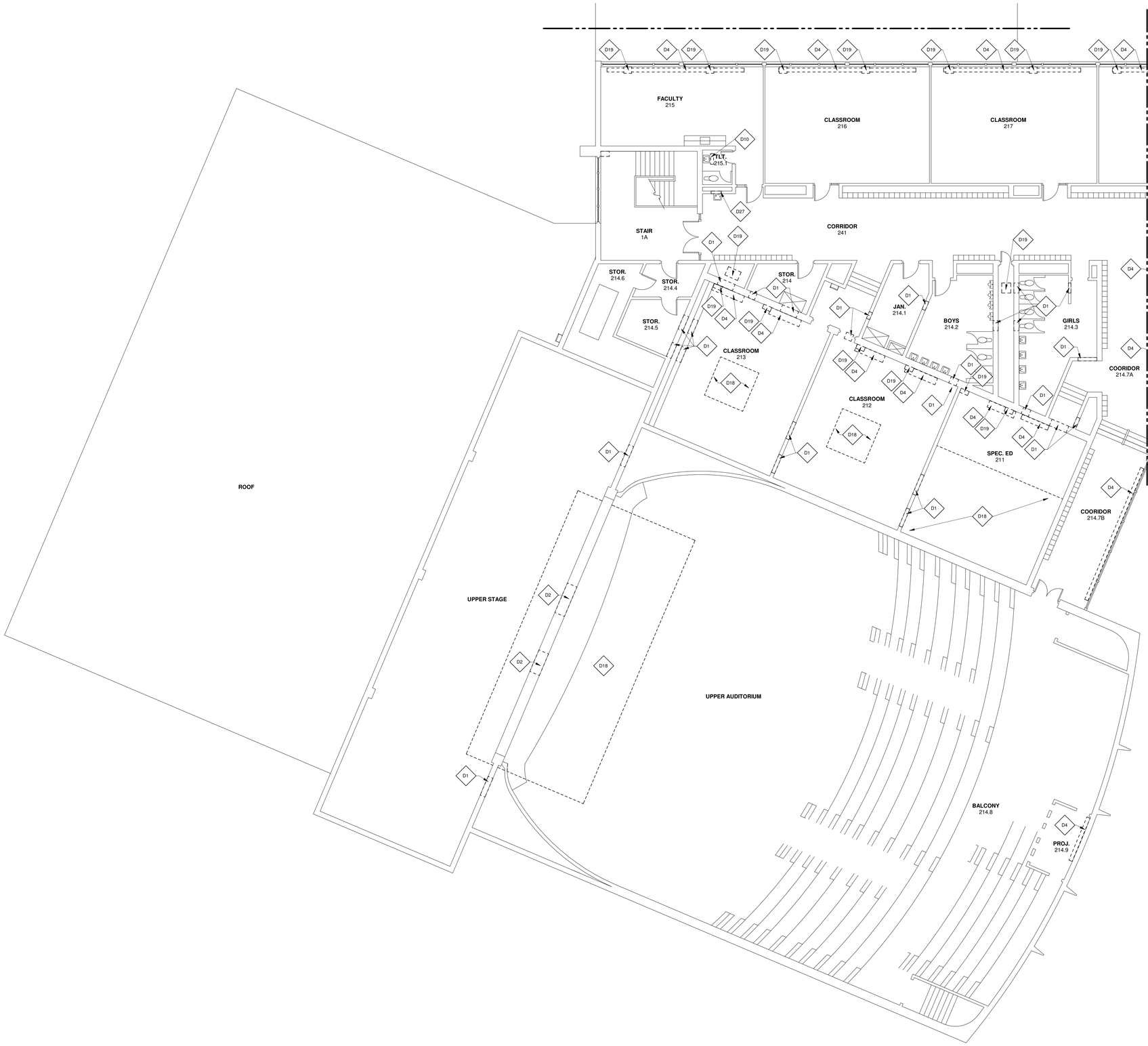
SCALE

Scale: **As indicated**

SHEET NUMBER

D1.02B

21011.30 28/01/2022 16:20:05 ESSER HVAC Improvements - Flinn Middle School



NORTH

1

DEMOLITION SECOND FLOOR PLAN - AREA D

1/8" = 1'-0"

LEGEND

- DEMOLITION WORK
- NEW WORK

GENERAL NOTES

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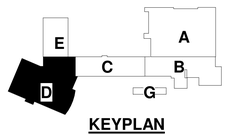

KEYPLAN

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REVISIONS

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Checked	MS
Approved	Approver

SHEET TITLE

SECOND FLOOR DEMOLITION PLAN - AREA D

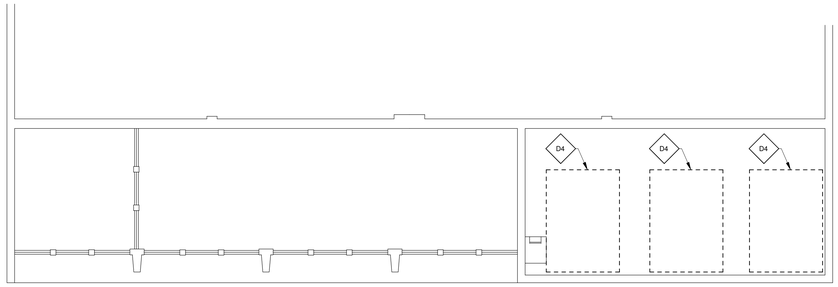
SCALE

Scale: **As indicated**

SHEET NUMBER

D1.02D

21011.30 28/01/2022 16:20:06 ESSER HVAC Improvements - Flinn Middle School



THIRD FLOOR DEMOLITION PLAN - AREA B - FAN ROOM

NORTH

1

1/8" = 1'-0"

LEGEND

	DEMOLITION WORK
	NEW WORK

GENERAL NOTES

1. ALL ACCESS DOORS ON FIRST FLOOR LOCATED UNDERNEATH AN EXISTING CASE WORK, REMOVE CASEWORK , PATCH , PREP AND PAINT TO MATCH EXISTING ADJACENT SURFACE .

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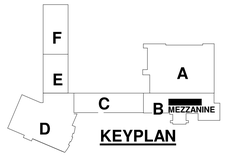
KEY PLAN



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Drawn	CM / MI
Checked	MS
Approved	Approver

SHEET TITLE

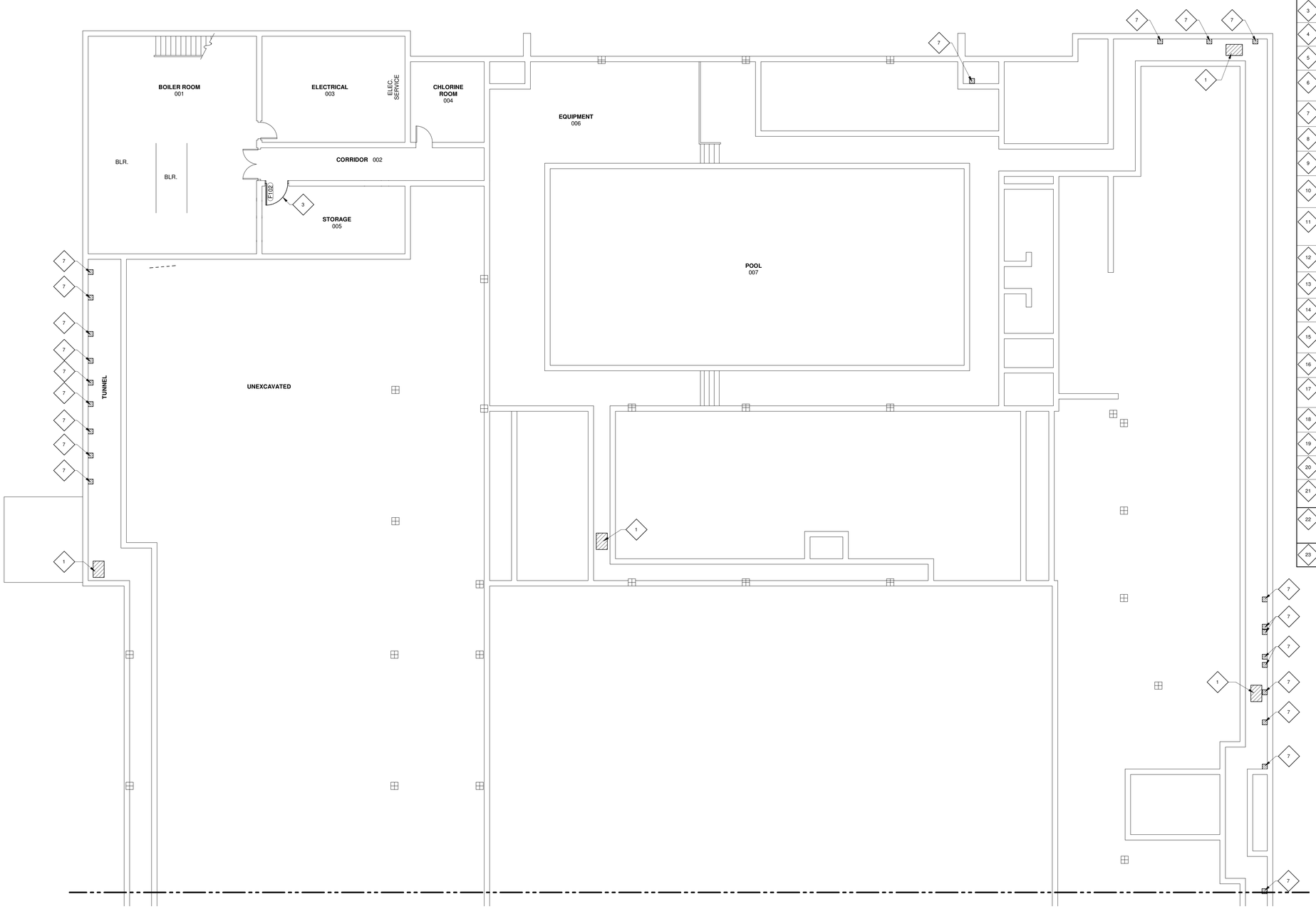
THIRD FLOOR DEMOLITION PLAN - AREA B - FAN ROOM

SCALE

Scale: As indicated

SHEET NUMBER

D1.03B



NORTH

1 **BASEMENT FLOOR PLAN - AREA A**

1/8" = 1'-0"

LEGEND

- DEMOLITION WORK
- NEW WORK

GENERAL NOTES

1. ALL ACCESS DOORS ON FIRST FLOOR LOCATED UNDERNEATH AN EXISTING CASE WORK, REMOVE CASEWORK , PATCH , PREP AND PAINT TO MATCH EXISTING ADJACENT SURFACE
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NEW WORK KEYNOTES

1	NEW 2'x3' ACCESS DOOR WITH A HINGED AND LOCKABLE DOOR AT THE SCHOOL DISTRICT'S DIRECTION. TYPICAL AT ALL LOCATIONS INDICATED. SEE DETAIL 4/A4.00 FOR ADDITIONAL INFORMATION.
2	14" DEEP BY 27.6" HIGH VERTICAL PIPE CHASE ENCLOSURE BELOW WINDOWS (BY G.C.) TYPICAL PER CLASSROOM. ENCLOSURE TO BE CONSTRUCTED OF 3-5/8" METAL STUDS WITH 5/8" GYPSUM BOARD AND SOLID SURFACE TOP - COLOR TO BE SELECTED BY ARCHITECT. PROVIDE GYPSUM BOARD AT ALL SIDES AND PAINT TO MATCH ADJACENT WALL. SEE DETAILS 2/A4.00 AND 3/A4.00.
3	PROVIDE NEW DOOR - SEE DOOR SCHEDULE. SEE STRUCTURAL DRAWINGS FOR NEW LINTEL INFORMATION, IF REQUIRED.
4	NEW MASONRY WALLS TO MATCH EXISTING IN MATERIAL, SIZE, TEXTURE, AND COLOR.
5	INSTALL NEW 8'-0" HIGH PALM SHIELD ATLAS INDUSTRIAL HORIZONTAL ALUMINUM FENCING AROUND PERIMETER OF CHILLER.
6	NEW VERTICAL PIPE CHASE ENCLOSURE/CHASE UP TO CEILING. ENCLOSURE TO BE CONSTRUCTED OF 3-5/8" METAL STUDS WITH 5/8" GYPSUM BOARD. PAINT TO MATCH ADJACENT WALL. SEE DETAIL 1/A4.00 FOR ADDITIONAL INFORMATION.
7	PATCH CONCRETE SLAB AS REQUIRED TO MATCH ADJACENT SURFACE IN LOCATIONS WHERE PIPING AND OR DUCTWORK WAS REMOVED.
8	PATCH CONCRETE WALL AS REQUIRED TO MATCH ADJACENT SURFACE IN LOCATIONS WHERE PIPING AND OR DUCTWORK WAS REMOVED.
9	PATCH FINISH FLOOR TO MATCH EXISTING IN FINISH TYPE, SIZE, COLOR, AND TEXTURE.
10	EXISTING LOUVERS ON EXTERIOR WALL TO REMAIN TO OUTDOORS. INSULATE/PATCH ON INTERIOR WHERE UNITS AND INTERIOR ENCLOSURE WERE REMOVED. INFILL, PATCH, AND PAINT WALL AS REQUIRED TO MATCH ADJACENT SURFACE IN COLOR, TEXTURE, AND SHEEN.
11	WHERE PIPING AND/OR DUCTWORK HAS BEEN ROUTED THROUGH A MASONRY WALL, INFILL HOLE TIGHT TO NEW PIPING AND/OR DUCTWORK WITH FULL CMU. MATCH THICKNESS AND COURSING. PROVIDE FIRE CAULK AROUND PENETRATION AND PAINT TO MATCH EXUSTING ADJACENT SURFACE.
12	WHERE EQUIPMENT, LOCKERS, OR FURNITURE WAS REMOVED, PATCH, PREP AND PAINT NEWLY EXPOSED MASONRY WALL TO MATCH ADJACENT EXISTING SURFACE IN COLOR, TEXTURE, AND SHEEN. PROVIDE NEW BASEBOARD TO MATCH EXISTING AS REQUIRED.
13	WHERE PIPING, DUCTWORK, AND/OR EQUIPMENT WAS REMOVED, PATCH AND PAINT EXISTING GYPSUM BOARD/PLASTER WALL TO MATCH ADJACENT SURFACE IN COLOR, TEXTURE, AND SHEEN. PROVIDE NEW BASEBOARD TO MATCH EXISTING AS REQUIRED.
14	PROVIDE NEW AREA WELL WALLS WITH GRATED COVER OVER OPENING. SEE STRUCTURAL DRAWINGS FOR ADDITIONAL INFORMATION.
15	PROVIDE NEW 10'-0" WIDE x 8'-0" HIGH RAYNOR INSULATED GARAGE DOOR, COMPLETE WITH RAILS, OPENER, REMOTE CONTROL, AND OPENING CONTROLS ON THE INSIDE FACE OF THE DOOR JAMB. DOOR COLOR TO BE WHITE. SEE STRUCTURAL DRAWINGS FOR LINTEL INFORMATION.
16	NEW MECHANICAL UNIT - REFER TO MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.
17	8" DEEP BY 42" PIPE CHASE ENCLOSURE BELOW WINDOWS. ENCLOSURE TO BE CONSTRUCTED OF 3-5/8" METAL STUDS WITH 5/8" GYPSUM BOARD. PROVIDE GYPSUM BOARD AT ALL SIDES AND PAINT TO MATCH ADJACENT WALL.
18	PROVIDE AND INSTALL NEW 16" LONG BY 4'-0" CLARIDGE DRY ERASE WHITE BOARD. WHITE BOARD TO BE CENTERED ON WALL.
19	PROVIDE AND INSTALL NEW 14" LONG BY 4'-0" CLARIDGE DRY ERASE WHITE BOARD. WHITE BOARD TO BE CENTERED ON WALL.
20	REMOVE/REPLACE ACOUSTICAL PANELS TO COORDINATE WITH NEW DUCTWORK IN CAFETERIA.
21	IN LOCATIONS WHERE PIPING, DUCTWORK, AND/OR EQUIPMENT WAS REMOVED, INFILL WITH GLAZING TO MATCH ADJACENT GLAZING. IN LOCATION WHERE PIPING, DUCTWORK, AND/OR EQUIPMENT WAS ROUTED THROUGH EXISTING GLAZING, PROVIDE AN ALUMINUM INFILL PANEL.
22	WHERE NEW PIPIPNG AND/OR DUCTWORK HAS BEEN ROUTED THROUGH AN EXISTING MASONRY WALL - INFILL HOLES TIGHT TO NEW PIPING AND/OR DUCT WORK WITH FULL CMU- MATCH THICKNESS , COURSING , TEXTURE AND COLOR. PROVIDE FIRE CAULK AROUND PENETRATION, WHERE INFILL IS EXPOSED ANS VISIBLE , PAINT TO MACH EXISTING ADJCENT SURFACE
23	REINSTALL SALVAGED CASEWORK

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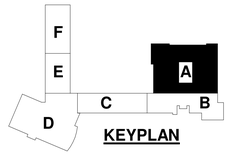
KEY PLAN



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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	**21011.30**
Drawn	**CM / MI**
Checked	**MS**
Approved	**Approver**

SHEET TITLE

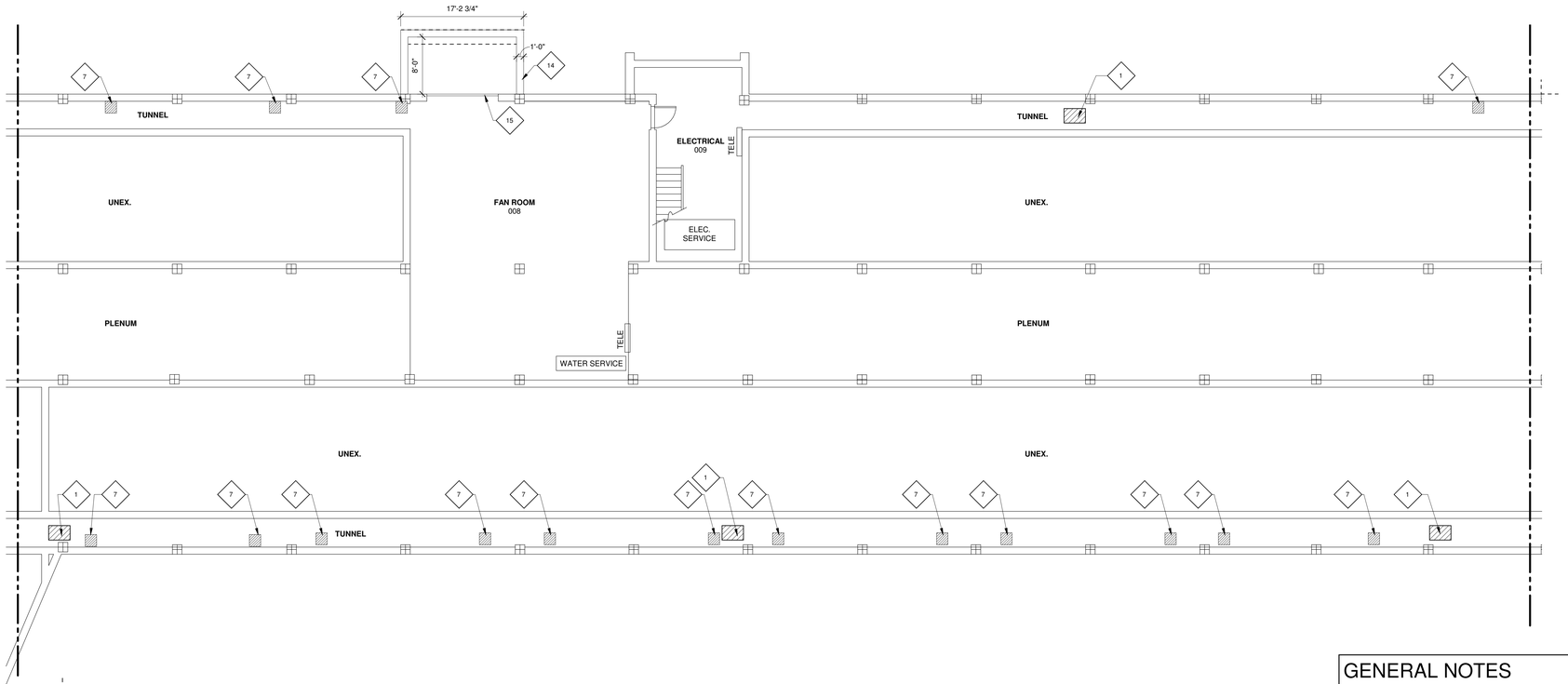
BASEMENT FLOOR PLAN - AREA A

SCALE

Scale: **As indicated**

SHEET NUMBER

A1.00A



2 BASEMENT FLOOR PLAN - AREA C

1/8" = 1'-0"

NORTH

LEGEND

	DEMOLITION WORK
	NEW WORK

GENERAL NOTES

1. ALL ACCESS DOORS ON FIRST FLOOR LOCATED UNDERNEATH AN EXISTING CASE WORK, REMOVE CASEWORK , PATCH , PREP AND PAINT TO MATCH EXISTING ADJACENT SURFACE
2. FOR THE REMOVAL OF MECHANICAL DUCTWORK AND PIPING, REFER TO MECHANICAL DRAWINGS
3. GENERAL CONTRACTOR TO REMOVE EXISTING EXIT SIGNS , SURFACE MOUNTED CLOCKS, SECURITY CAMERAS, WALL MOUNTED EMERGENCY LIGHT PACK , WALL MOUNTED SPEAKERS , WALL MOUNTED ALARM BELL AND SALVAGE FOR REINSTALLATION AS REQUIRED TO ACCOMMODATE THE NEW WORK
4. THE EXTENT OF WALL AND FLOOR DEMOLITION IS SHOWN WHERE ANTICIPATED TO APPROXIMATE THE SCOPE OF WORK. THE INTENT IS TO ACCOMMODATE ALL MECHANICAL PIPING, DUCTWOR AND EQUIPMENT INSTALLATION. FINAL COORDINATION IS REQUIRED BETWEEN GENERAL CONTRACTOR AND MECHANICAL CONTRACTOR TO CONFIRM ON DRAWINGS AND AS REQUIRED BY THE MECHANICAL CONTRACTOR FOR THEIR INSTALLATION

NEW WORK KEYNOTES

1	NEW 2'x3' ACCESS DOOR WITH A HINGED AND LOCKABLE DOOR AT THE SCHOOL DISTRICT'S DIRECTION. TYPICAL AT ALL LOCATIONS INDICATED. SEE DETAIL 4/A4.00 FOR ADDITIONAL INFORMATION.
2	14" DEEP BY 27.6" HIGH VERTICAL PIPE CHASE ENCLOSURE BELOW WINDOWS (BY G.C.) TYPICAL PER CLASSROOM. ENCLOSURE TO BE CONSTRUCTED OF 3-5/8" METAL STUDS WITH 5/8" GYPSUM BOARD AND SOLID SURFACE TOP - COLOR TO BE SELECTED BY ARCHITECT. PROVIDE GYPSUM BOARD AT ALL SIDES AND PAINT TO MATCH ADJACENT WALL. SEE DETAILS 2/A4.00 AND 3/A4.00.
3	PROVIDE NEW DOOR - SEE DOOR SCHEDULE. SEE STRUCTURAL DRAWINGS FOR NEW LINTEL INFORMATION, IF REQUIRED.
4	NEW MASONRY WALLS TO MATCH EXISTING IN MATERIAL, SIZE, TEXTURE, AND COLOR.
5	INSTALL NEW 8'-0" HIGH PALM SHIELD ATLAS INDUSTRIAL HORIZONTAL ALUMINUM FENCING AROUND PERIMETER OF CHILLER.
6	NEW VERTICAL PIPE CHASE ENCLOSURE/CHASE UP TO CEILING. ENCLOSURE TO BE CONSTRUCTED OF 3-5/8" METAL STUDS WITH 5/8" GYPSUM BOARD. PAINT TO MATCH ADJACENT WALL. SEE DETAIL 1/A4.00 FOR ADDITIONAL INFORMATION.
7	PATCH CONCRETE SLAB AS REQUIRED TO MATCH ADJACENT SURFACE IN LOCATIONS WHERE PIPING AND OR DUCTWORK WAS REMOVED.
8	PATCH CONCRETE WALL AS REQUIRED TO MATCH ADJACENT SURFACE IN LOCATIONS WHERE PIPING AND OR DUCTWORK WAS REMOVED.
9	PATCH FINISH FLOOR TO MATCH EXISTING IN FINISH TYPE, SIZE, COLOR, AND TEXTURE.
10	EXISTING LOUVERS ON EXTERIOR WALL TO REMAIN TO OUTDOORS. INSULATE/PATCH ON INTERIOR WHERE UNITS AND INTERIOR ENCLOSURE WERE REMOVED. INFILL, PATCH, AND PAINT WALL AS REQUIRED TO MATCH ADJACENT SURFACE IN COLOR, TEXTURE, AND SHEEN.
11	WHERE PIPING AND/OR DUCTWORK HAS BEEN ROUTED THROUGH A MASONRY WALL, INFILL HOLE TIGHT TO NEW PIPING AND/OR DUCTWORK WITH FULL CMU. MATCH THICKNESS AND COURSING. PROVIDE FIRE CAULK AROUND PENETRATION AND PAINT TO MATCH EXUSTING ADJACENT SURFACE.
12	WHERE EQUIPMENT, LOCKERS, OR FURNITURE WAS REMOVED, PATCH, PREP AND PAINT NEWLY EXPOSED MASONRY WALL TO MATCH ADJACENT EXISTING SURFACE IN COLOR, TEXTURE, AND SHEEN. PROVIDE NEW BASEBOARD TO MATCH EXISTING AS REQUIRED.
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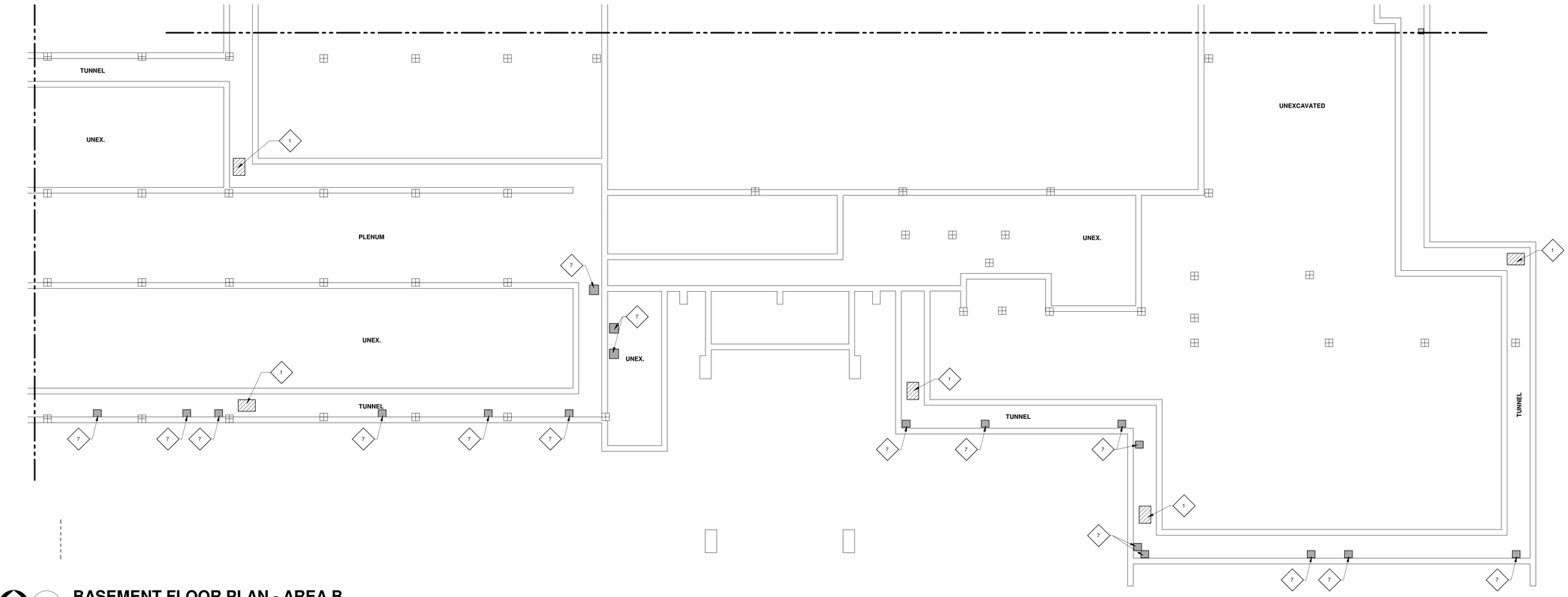
23	REINSTALL SALVAGED CASEWORK



1 BASEMENT FLOOR PLAN - AREA B

1/8" = 1'-0"

NORTH

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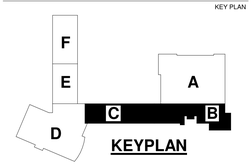

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REVISIONS

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SHEET INFORMATION

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Date	JANUARY 28 , 2022
Job Number	21011.30
Drawn	CM / MI
Checked	MS
Approved	Approver

SHEET TITLE

BASEMENT FLOOR PLAN - AREAS B & C

SCALE

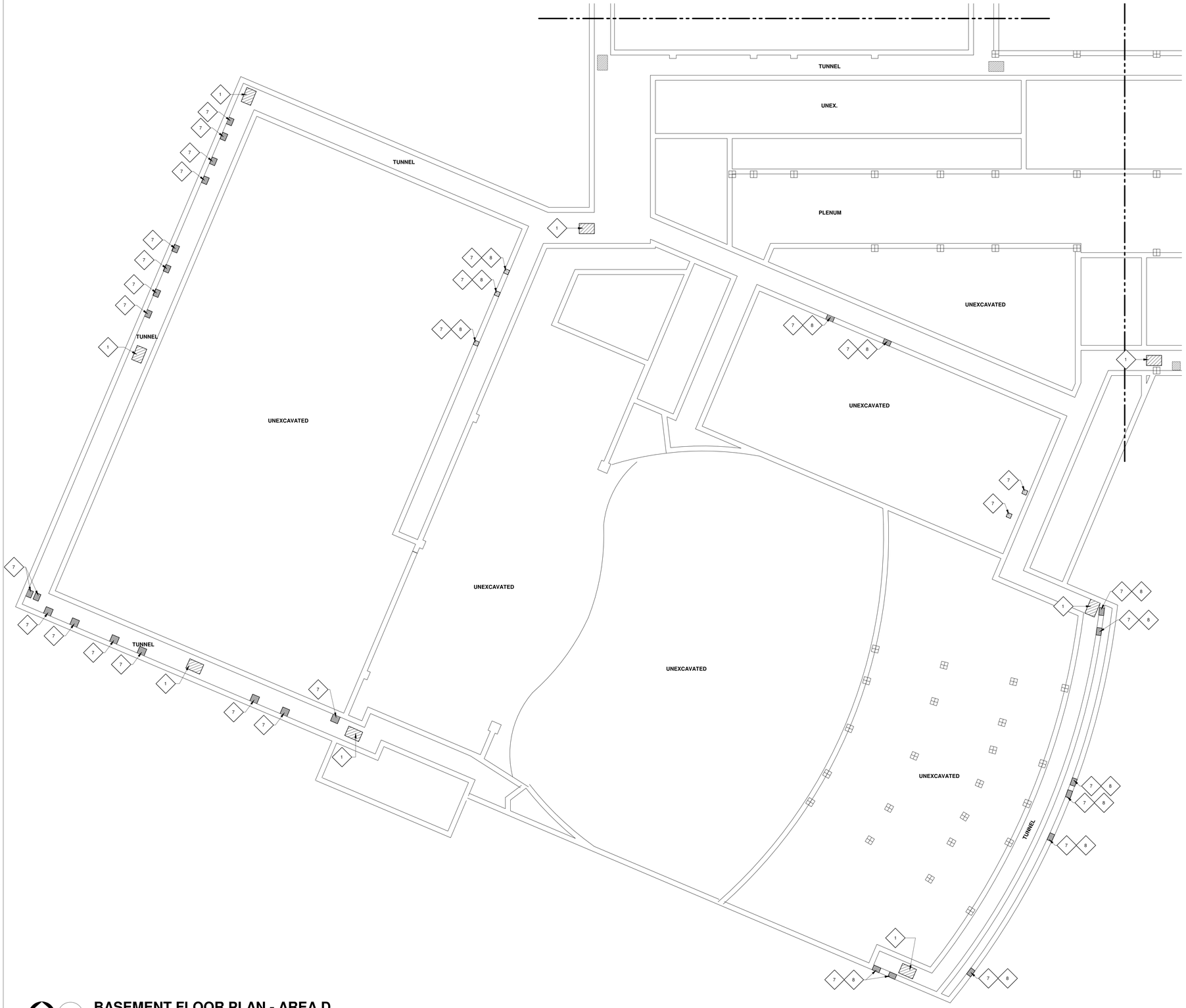
Scale: As indicated

SHEET NUMBER

A1.00B

28/01/2022 16:21:16 ESSER HVAC Improvements - Flinn Middle School

21011.30



1 BASEMENT FLOOR PLAN - AREA D

1/8" = 1'-0"

NORTH

LEGEND

- DEMOLITION WORK
- NEW WORK

GENERAL NOTES

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3. PROVIDE NEW DOOR - SEE DOOR SCHEDULE. SEE STRUCTURAL DRAWINGS FOR NEW LINTEL INFORMATION, IF REQUIRED.
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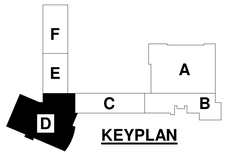

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Drawn	CM / MI
Checked	MS
Approved	Approver

SHEET TITLE

BASEMENT FLOOR PLAN - AREA D

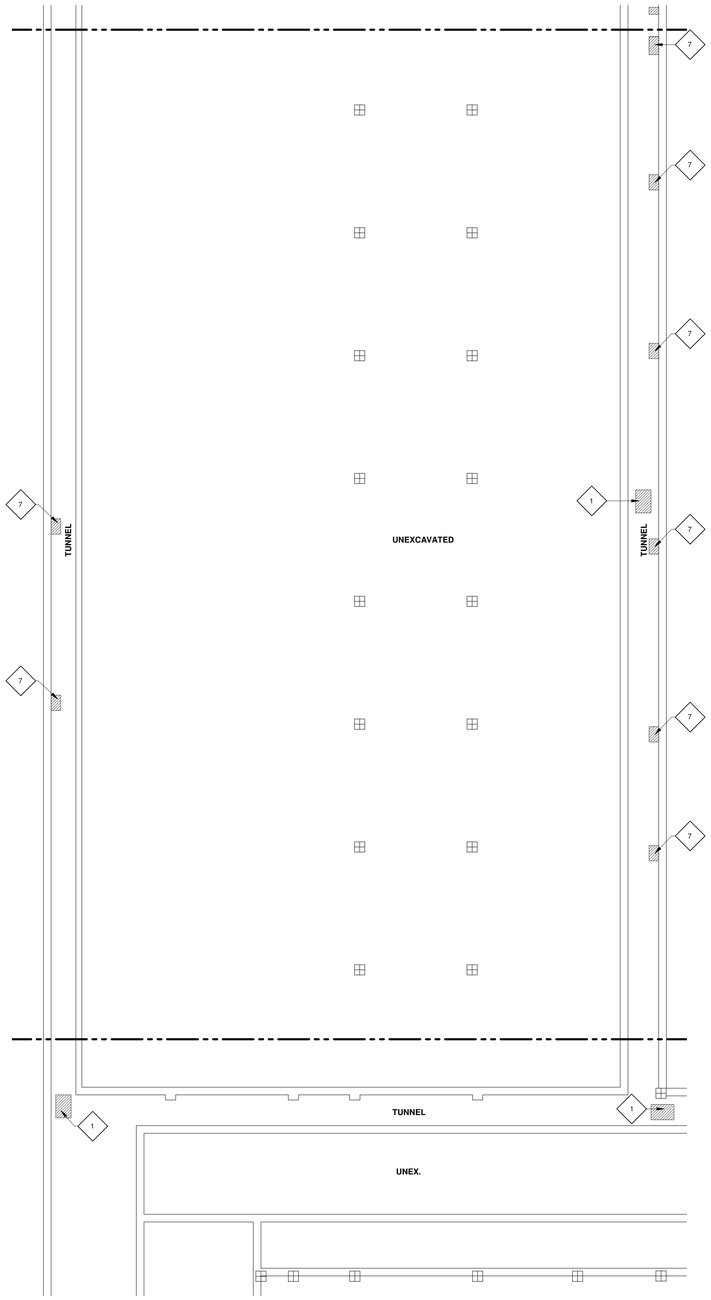
SCALE

Scale: As indicated

SHEET NUMBER

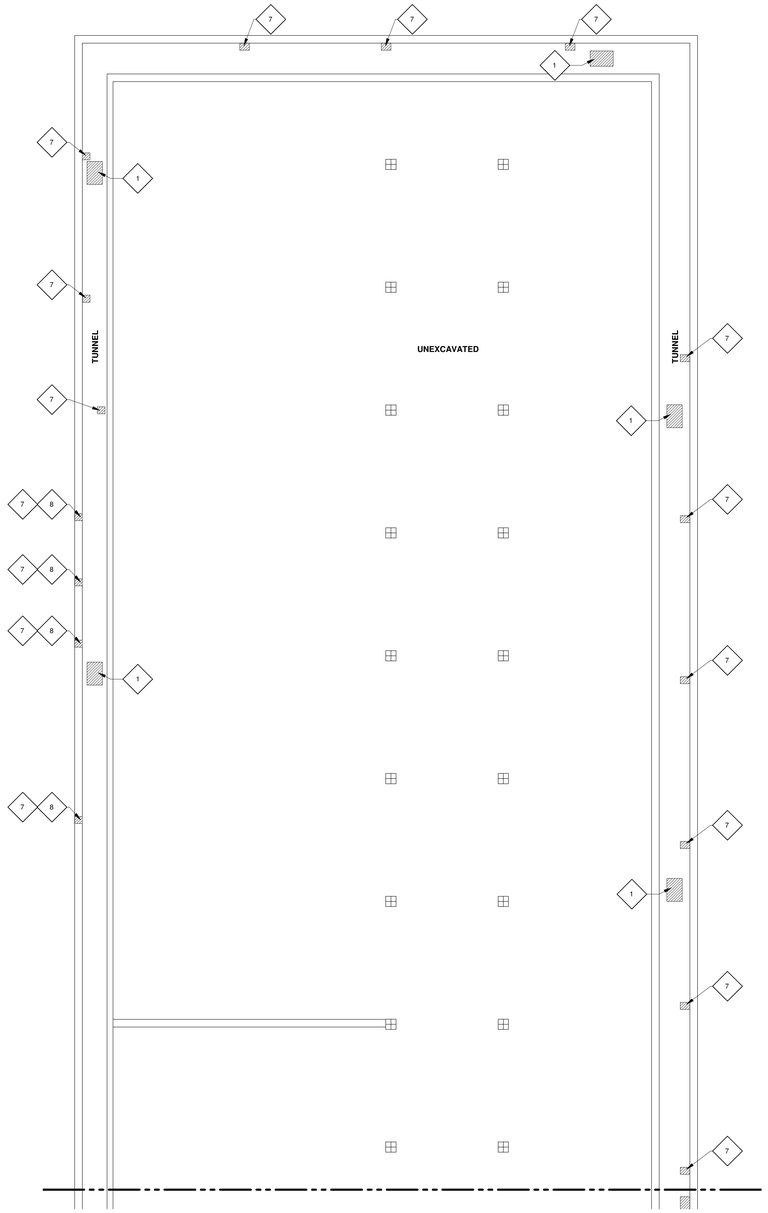
A1.00D

21011.30 28/01/2022 16:21:17 ESSER HVAC Improvements - Flinn Middle School



NORTH 1 **BASEMENT FLOOR PLAN - AREA E**

1/8" = 1'-0"



NORTH 2 **BASEMENT FLOOR PLAN - AREA F**

1/8" = 1'-0"

LEGEND

	DEMOLITION WORK
	NEW WORK

GENERAL NOTES

1. ALL ACCESS DOORS ON FIRST FLOOR LOCATED UNDERNEATH AN EXISTING CASE WORK, REMOVE CASEWORK , PATCH , PREP AND PAINT TO MATCH EXISTING ADJACENT SURFACE
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20	REMOVE/REPLACE ACOUSTICAL PANELS TO COORDINATE WITH NEW DUCTWORK IN CAFETERIA.
21	IN LOCATIONS WHERE PIPING, DUCTWORK, AND/OR EQUIPMENT WAS REMOVED, INFILL WITH GLAZING TO MATCH ADJACENT GLAZING. IN LOCATION WHERE PIPING, DUCTWORK, AND/OR EQUIPMENT WAS ROUTED THROUGH EXISTING GLAZING, PROVIDE AN ALUMINUM INFILL PANEL.
22	WHERE NEW PIPIPNG AND/OR DUCTWORK HAS BEEN ROUTED THROUGH AN EXISTING MASONRY WALL. - INFILL HOLES TIGHT TO NEW PIPING AND/OR DUCT WORK WITH FULL CMU- MATCH THICKNESS , COURSING , TEXTURE AND COLOR. PROVIDE FIRE CAULK AROUND PENETRATION, WHERE INFILL IS EXPOSED ANS VISIBLE , PAINT TO MACH EXISTING ADJCENT SURFACE
23	REINSTALL SALVAGED CASEWORK

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Rockford Public Schools #205

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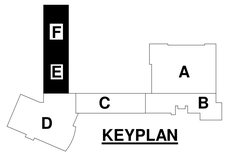
KEY PLAN



KEYPLAN

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REVISIONS

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SHEET INFORMATION

Issue	BID DOCUMENTS
Date	JANUARY 28 , 2022
Job Number	21011.30
Drawn	CM / MI
Checked	MS
Approved	Approver

SHEET TITLE

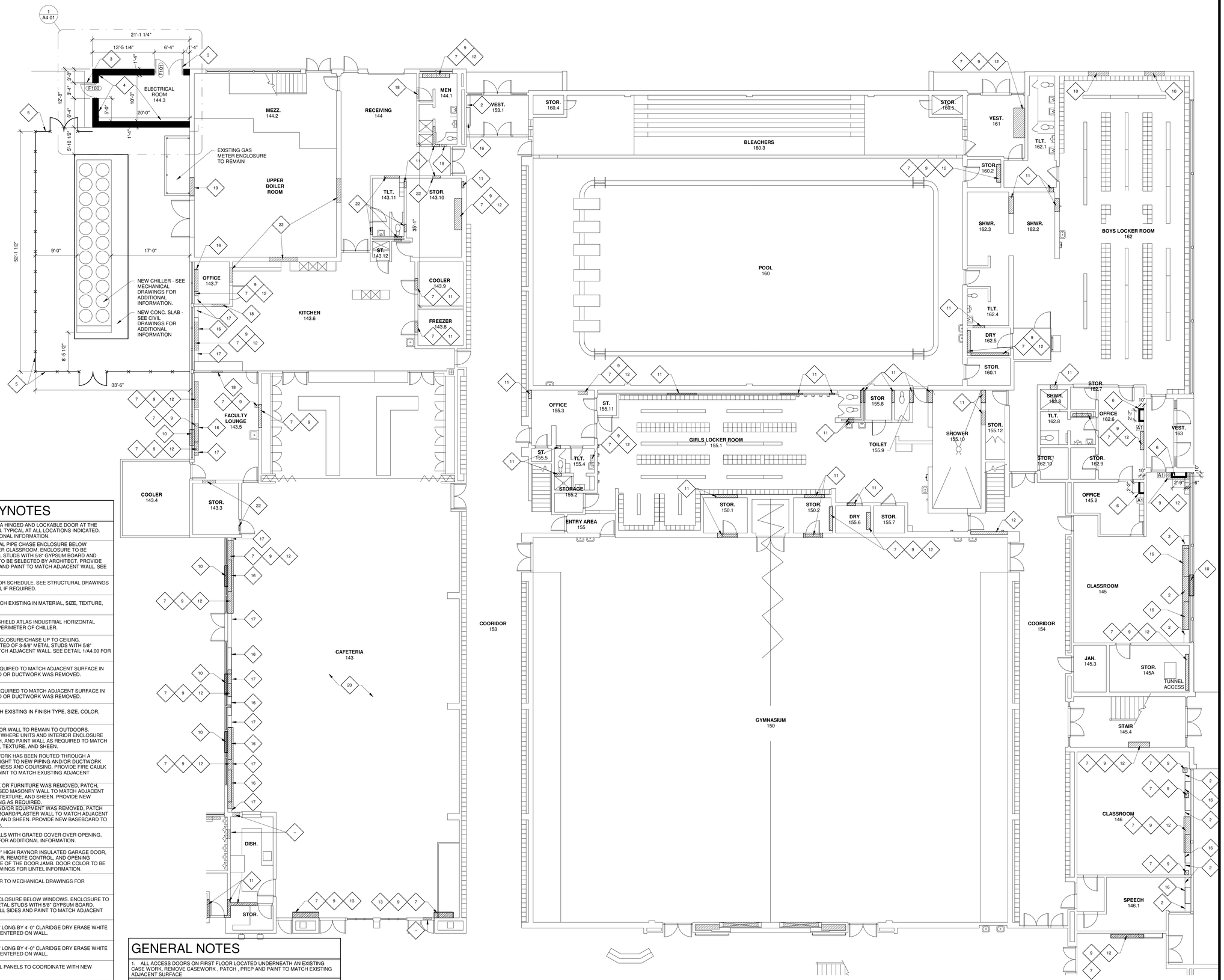
BASEMENT FLOOR PLAN - AREAS E & F

SCALE

Scale: As indicated

SHEET NUMBER

A1.00E



NEW WORK KEYNOTES

1	NEW 2'x3' ACCESS DOOR WITH A HINGED AND LOCKABLE DOOR AT THE SCHOOL DISTRICT'S DIRECTION. TYPICAL AT ALL LOCATIONS INDICATED. SEE DETAIL 4/A4.00 FOR ADDITIONAL INFORMATION.
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3	PROVIDE NEW DOOR - SEE DOOR SCHEDULE. SEE STRUCTURAL DRAWINGS FOR NEW LINTEL INFORMATION, IF REQUIRED.
4	NEW MASONRY WALLS TO MATCH EXISTING IN MATERIAL, SIZE, TEXTURE, AND COLOR.
5	INSTALL NEW 8'-0" HIGH PALM SHIELD ATLAS INDUSTRIAL HORIZONTAL ALUMINUM FENCING AROUND PERIMETER OF CHILLER.
6	NEW VERTICAL PIPE CHASE ENCLOSURE/CHASE UP TO CEILING. ENCLOSURE TO BE CONSTRUCTED OF 3-5/8" METAL STUDS WITH 5/8" GYPSUM BOARD. PAINT TO MATCH ADJACENT WALL. SEE DETAIL 1/A4.00 FOR ADDITIONAL INFORMATION.
7	PATCH CONCRETE SLAB AS REQUIRED TO MATCH ADJACENT SURFACE IN LOCATIONS WHERE PIPING AND OR DUCTWORK WAS REMOVED.
8	PATCH CONCRETE WALL AS REQUIRED TO MATCH ADJACENT SURFACE IN LOCATIONS WHERE PIPING AND OR DUCTWORK WAS REMOVED.
9	PATCH FINISH FLOOR TO MATCH EXISTING IN FINISH TYPE, SIZE, COLOR, AND TEXTURE.
10	EXISTING LOUVERS ON EXTERIOR WALL TO REMAIN TO OUTDOORS. INSULATE/PATCH ON INTERIOR WHERE UNITS AND INTERIOR ENCLOSURE WERE REMOVED. INFILL, PATCH, AND PAINT WALL AS REQUIRED TO MATCH ADJACENT SURFACE IN COLOR, TEXTURE, AND SHEEN.
11	WHERE PIPING AND/OR DUCTWORK HAS BEEN ROUTED THROUGH A MASONRY WALL, INFILL HOLE TIGHT TO NEW PIPING AND/OR DUCTWORK WITH FULL CMU. MATCH THICKNESS AND COURSING. PROVIDE FIRE CAULK AROUND PENETRATION AND PAINT TO MATCH EXUSTING ADJACENT SURFACE.
12	WHERE EQUIPMENT, LOCKERS, OR FURNITURE WAS REMOVED, PATCH, PREP AND PAINT NEWLY EXPOSED MASONRY WALL TO MATCH ADJACENT EXISTING SURFACE IN COLOR, TEXTURE, AND SHEEN. PROVIDE NEW BASEBOARD TO MATCH EXISTING AS REQUIRED.
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14	PROVIDE NEW AREA WELL WALLS WITH GRATED COVER OVER OPENING. SEE STRUCTURAL DRAWINGS FOR ADDITIONAL INFORMATION.
15	PROVIDE NEW 10'-0" WIDE x 8'-0" HIGH RAYNOR INSULATED GARAGE DOOR, COMPLETE WITH RAILS, OPENER, REMOTE CONTROL, AND OPENING CONTROLS ON THE INSIDE FACE OF THE DOOR JAMB. DOOR COLOR TO BE WHITE. SEE STRUCTURAL DRAWINGS FOR LINTEL INFORMATION.
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GENERAL NOTES

1. ALL ACCESS DOORS ON FIRST FLOOR LOCATED UNDERNEATH AN EXISTING CASE WORK, REMOVE CASEWORK , PATCH , PREP AND PAINT TO MATCH EXISTING ADJACENT SURFACE
2. FOR THE REMOVAL OF MECHANICAL DUCTWORK AND PIPING, REFER TO MECHANICAL DRAWINGS
3. GENERAL CONTRACTOR TO REMOVE EXISTING EXIT SIGNS , SURFACE MOUNTED CLOCKS, SECURITY CAMERAS, WALL MOUNTED EMERGENCY LIGHT PACK , WALL MOUNTED SPEAKERS , WALL MOUNTED ALARM BELL AND SALVAGE FOR REINSTALLATION AS REQUIRED TO ACCOMMODATE THE NEW WORK
4. THE EXTENT OF WALL AND FLOOR DEMOLITION IS SHOWN WHERE ANTICIPATED TO APPROXIMATE THE SCOPE OF WORK. THE INTENT IS TO ACCOMMODATE ALL MECHANICAL PIPING, DUCTWOR AND EQUIPMENT INSTALLATION. FINAL COORDINATION IS REQUIRED BETWEEN GENERAL CONTRACTOR AND MECHANICAL CONTRACTOR TO CONFIRM ON DRAWINGS AND AS REQUIRED BY THE MECHANICAL CONTRACTOR FOR THEIR INSTALLATION

NORTH

1

FIRST FLOOR PLAN - AREA A

1/8" = 1'-0"

LEGEND

- DEMOLITION WORK
- NEW WORK

21011.30 28/01/2022 16:21:23 ESSER HVAC Improvements - Flinn Middle School

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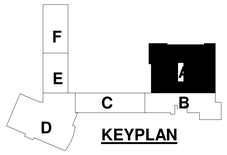

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Approved	Approver

SHEET TITLE

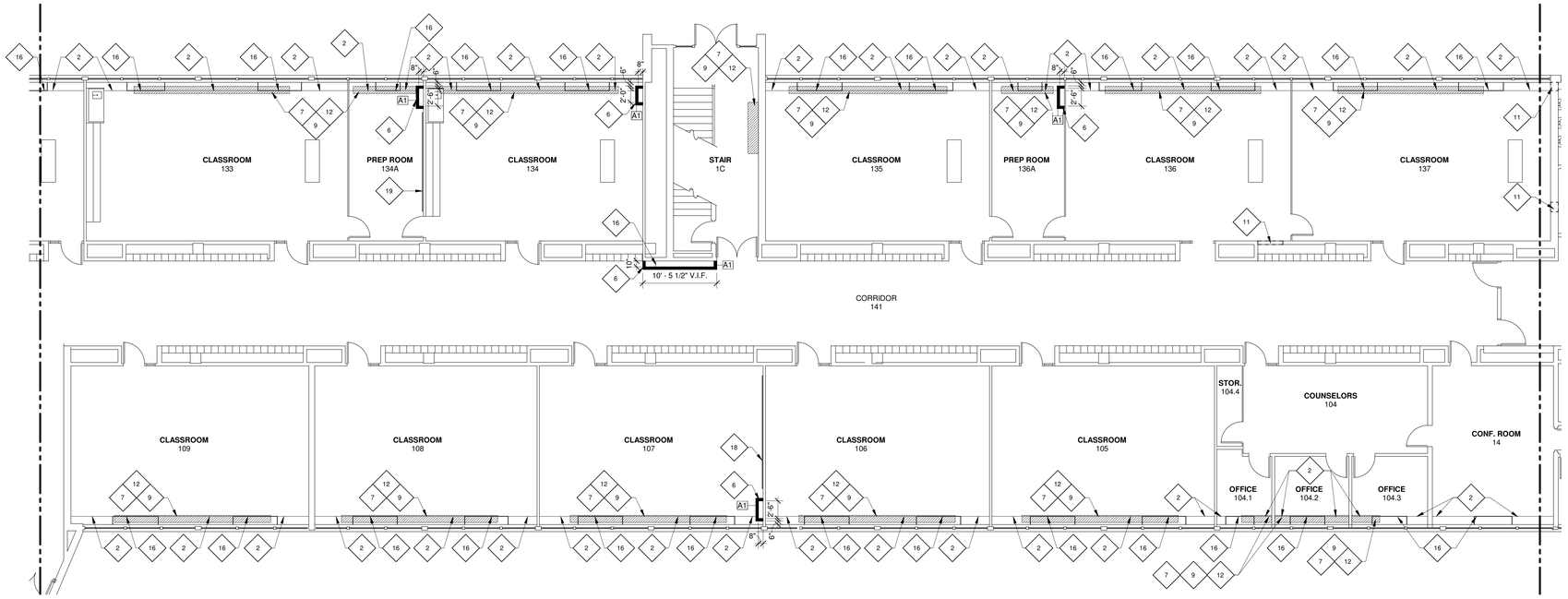
FIRST FLOOR PLAN - AREA A

SCALE

Scale: As indicated

SHEET NUMBER

A1.01A



2 FIRST FLOOR PLAN - AREA C

1/8" = 1'-0"

LEGEND

	DEMOLITION WORK
	NEW WORK

GENERAL NOTES

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3. PROVIDE NEW DOOR - SEE DOOR SCHEDULE. SEE STRUCTURAL DRAWINGS FOR NEW LINTEL INFORMATION, IF REQUIRED.
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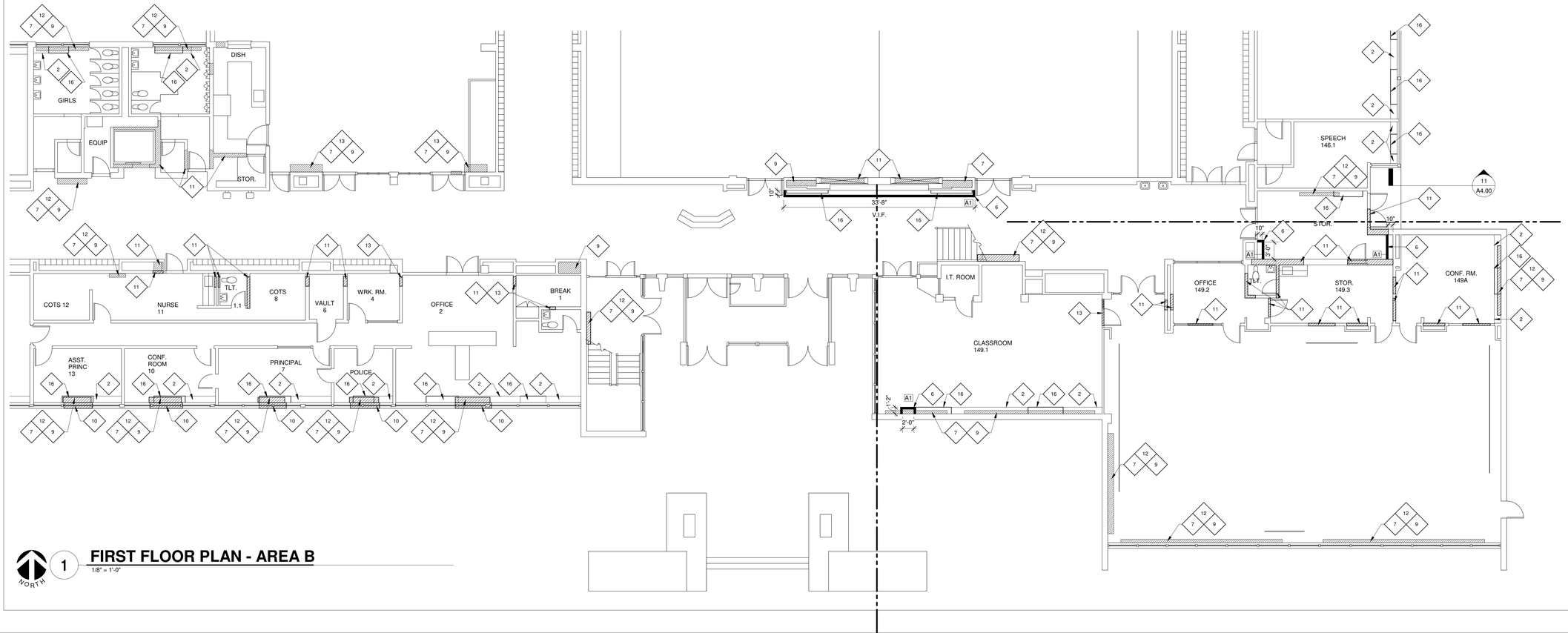
23. REINSTALL SALVAGED CASEWORK



1 FIRST FLOOR PLAN - AREA B

1/8" = 1'-0"

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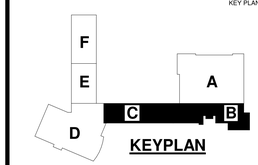

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Drawn	CM / MI
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SHEET TITLE

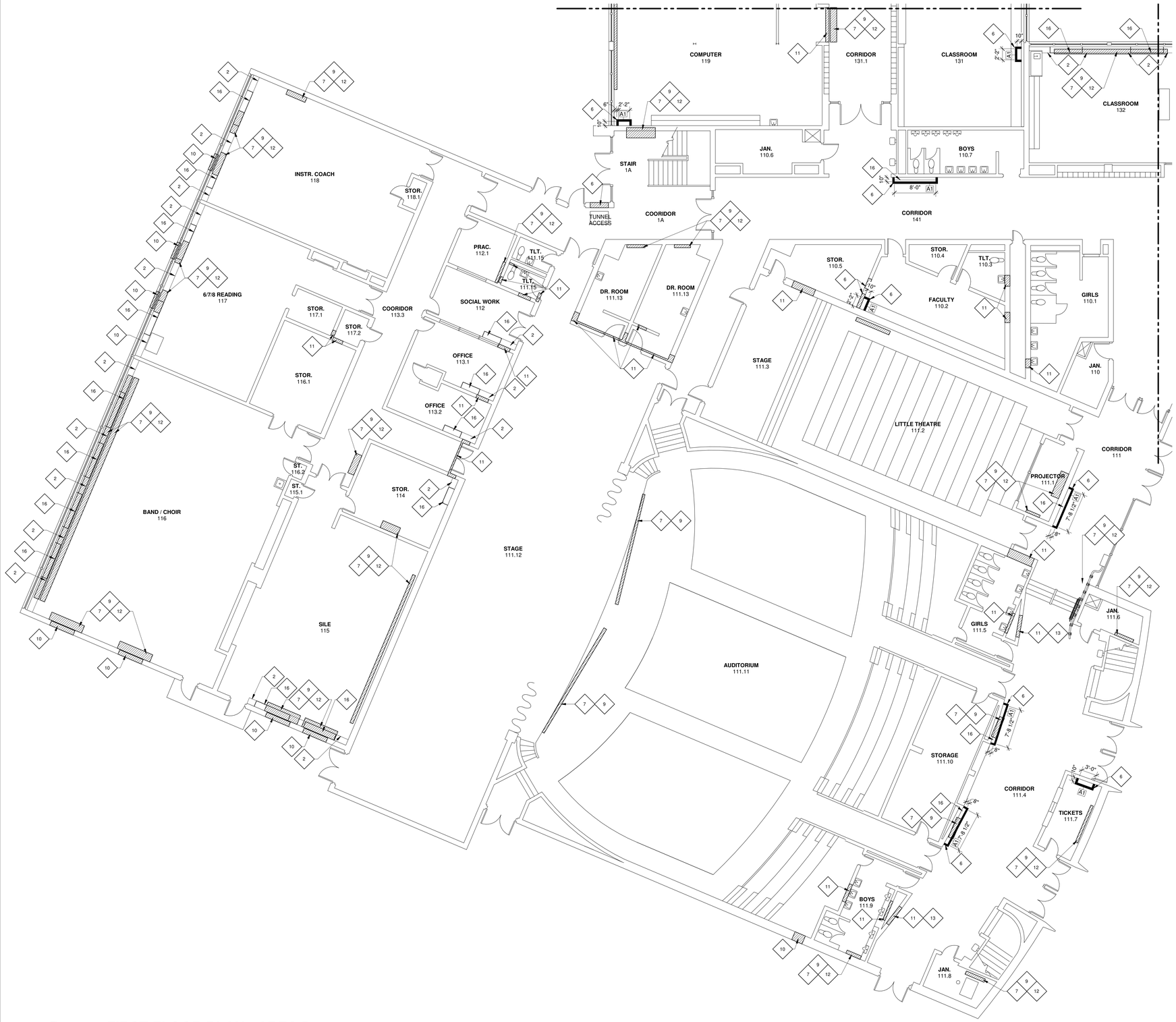
FIRST FLOOR PLAN - AREAS B & C

SCALE

Scale: As indicated

SHEET NUMBER

A1.01B



1 **FIRST FLOOR PLAN - AREA D**

1/8" = 1'-0"

LEGEND

- DEMOLITION WORK
- NEW WORK

GENERAL NOTES

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ROCKFORD PUBLIC SCHOOLS

ESSER HVAC Improvements - Flinn Middle School

2525 Ohio Parkway, Rockford, IL 61108

Rockford Public Schools #205

PROFESSIONAL SEAL

CONSULTANT

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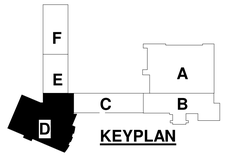
504 North Church Street • Rockford, Illinois 61103
815-963-9392 • www.sgadesign.com

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	**JANUARY 28 , 2022**
Job Number	**21011.30**
Drawn	**CM / MI**
Checked	**MS**
Approved	**Approver**

SHEET TITLE

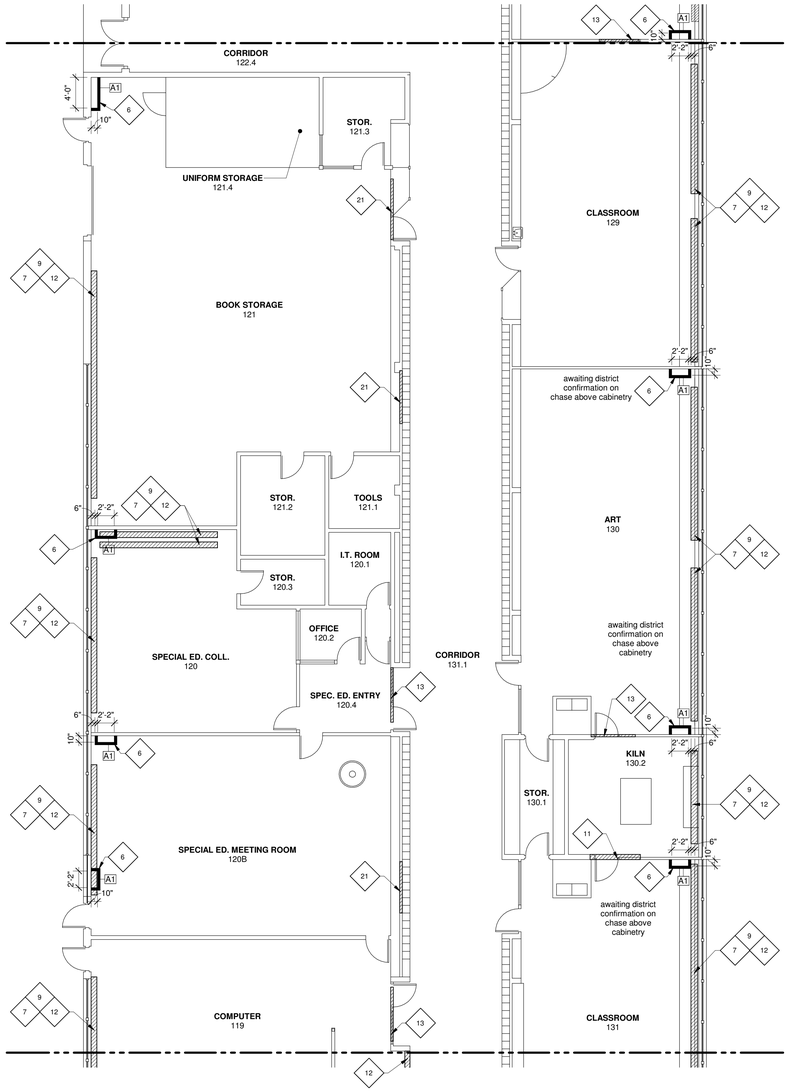
FIRST FLOOR PLAN - AREA D

SCALE

Scale: **As indicated**

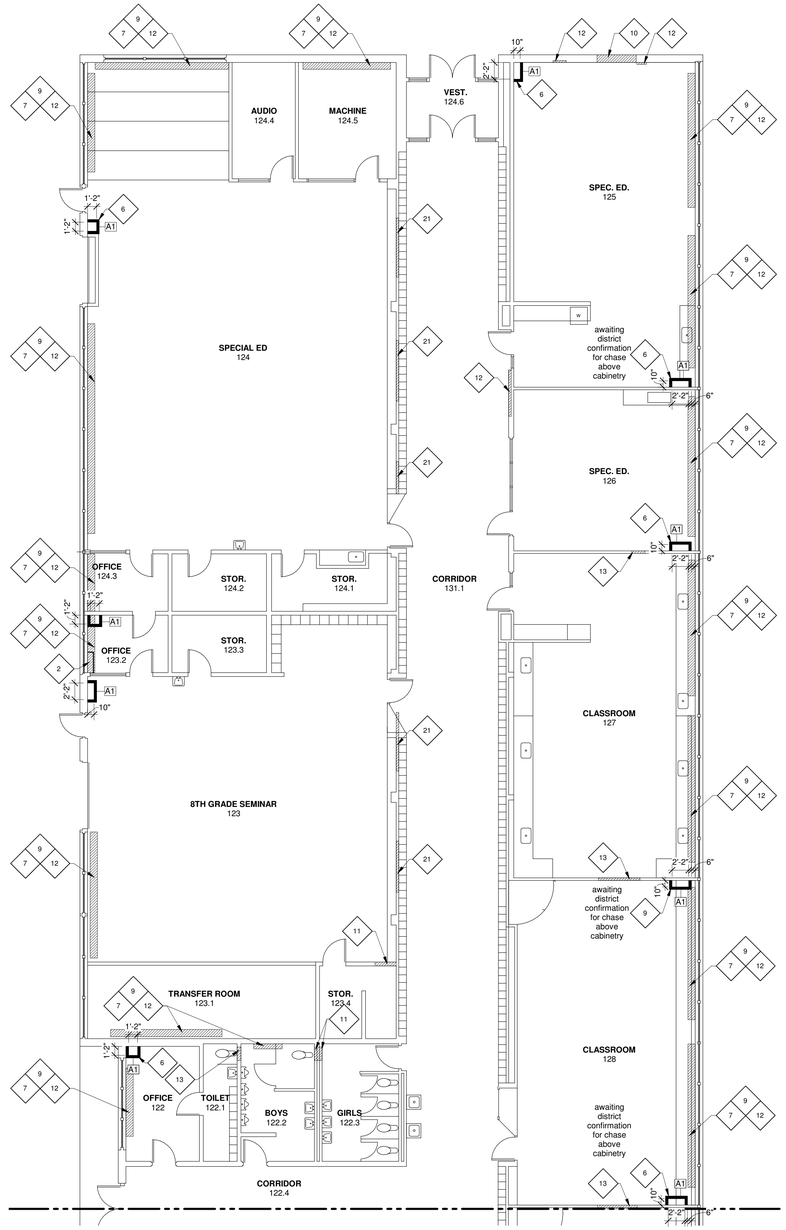
SHEET NUMBER

A1.01D



1 FIRST FLOOR PLAN - AREA E

1/8" = 1'-0"



2 FIRST FLOOR PLAN - AREA F

1/8" = 1'-0"

LEGEND

- DEMOLITION WORK
- NEW WORK

GENERAL NOTES

1. ALL ACCESS DOORS ON FIRST FLOOR LOCATED UNDERNEATH AN EXISTING CASE WORK, REMOVE CASEWORK , PATCH , PREP AND PAINT TO MATCH EXISTING ADJACENT SURFACE
2. FOR THE REMOVAL OF MECHANICAL DUCTWORK AND PIPING, REFER TO MECHANICAL DRAWINGS
3. GENERAL CONTRACTOR TO REMOVE EXISTING EXIT SIGNS , SURFACE MOUNTED CLOCKS, SECURITY CAMERAS, WALL MOUNTED EMERGENCY LIGHT PACK , WALL MOUNTED SPEAKERS , WALL MOUNTED ALARM BELL AND SALVAGE FOR REINSTALLATION AS REQUIRED TO ACCOMMODATE THE NEW WORK
4. THE EXTENT OF WALL AND FLOOR DEMOLITION IS SHOWN WHERE ANTICIPATED TO APPROXIMATE THE SCOPE OF WORK. THE INTENT IS TO ACCOMMODATE ALL MECHANICAL PIPING, DUCTWOR AND EQUIPMENT INSTALLATION. FINAL COORDINATION IS REQUIRED BETWEEN GENERAL CONTRACTOR AND MECHANICAL CONTRACTOR TO CONFIRM ON DRAWINGS AND AS REQUIRED BY THE MECHANICAL CONTRACTOR FOR THEIR INSTALLATION

NEW WORK KEYNOTES

1	NEW 2'x3' ACCESS DOOR WITH A HINGED AND LOCKABLE DOOR AT THE SCHOOL DISTRICT'S DIRECTION. TYPICAL AT ALL LOCATIONS INDICATED. SEE DETAIL 4/A4.00 FOR ADDITIONAL INFORMATION.
2	14" DEEP BY 27.6" HIGH VERTICAL PIPE CHASE ENCLOSURE BELOW WINDOWS (BY G.C.) TYPICAL PER CLASSROOM. ENCLOSURE TO BE CONSTRUCTED OF 3-5/8" METAL STUDS WITH 5/8" GYPSUM BOARD AND SOLID SURFACE TOP - COLOR TO BE SELECTED BY ARCHITECT. PROVIDE GYPSUM BOARD AT ALL SIDES AND PAINT TO MATCH ADJACENT WALL. SEE DETAILS 2/A4.00 AND 3/A4.00.
3	PROVIDE NEW DOOR - SEE DOOR SCHEDULE. SEE STRUCTURAL DRAWINGS FOR NEW LINTEL INFORMATION, IF REQUIRED.
4	NEW MASONRY WALLS TO MATCH EXISTING IN MATERIAL, SIZE, TEXTURE, AND COLOR.
5	INSTALL NEW 8'-0" HIGH PALM SHIELD ATLAS INDUSTRIAL HORIZONTAL ALUMINUM FENCING AROUND PERIMETER OF CHILLER.
6	NEW VERTICAL PIPE CHASE ENCLOSURE/CHASE UP TO CEILING. ENCLOSURE TO BE CONSTRUCTED OF 3-5/8" METAL STUDS WITH 5/8" GYPSUM BOARD. PAINT TO MATCH ADJACENT WALL. SEE DETAIL 1/A4.00 FOR ADDITIONAL INFORMATION.
7	PATCH CONCRETE SLAB AS REQUIRED TO MATCH ADJACENT SURFACE IN LOCATIONS WHERE PIPING AND OR DUCTWORK WAS REMOVED.
8	PATCH CONCRETE WALL AS REQUIRED TO MATCH ADJACENT SURFACE IN LOCATIONS WHERE PIPING AND OR DUCTWORK WAS REMOVED.
9	PATCH FINISH FLOOR TO MATCH EXISTING IN FINISH TYPE, SIZE, COLOR, AND TEXTURE.
10	EXISTING LOUVERS ON EXTERIOR WALL TO REMAIN TO OUTDOORS. INSULATE/PATCH ON INTERIOR WHERE UNITS AND INTERIOR ENCLOSURE WERE REMOVED. INFILL, PATCH, AND PAINT WALL AS REQUIRED TO MATCH ADJACENT SURFACE IN COLOR, TEXTURE, AND SHEEN.
11	WHERE PIPING AND/OR DUCTWORK HAS BEEN ROUTED THROUGH A MASONRY WALL, INFILL HOLE TIGHT TO NEW PIPING AND/OR DUCTWORK WITH FULL CMU. MATCH THICKNESS AND COURSING. PROVIDE FIRE CAULK AROUND PENETRATION AND PAINT TO MATCH EXUSTING ADJACENT SURFACE.
12	WHERE EQUIPMENT, LOCKERS, OR FURNITURE WAS REMOVED, PATCH, PREP AND PAINT NEWLY EXPOSED MASONRY WALL TO MATCH ADJACENT EXISTING SURFACE IN COLOR, TEXTURE, AND SHEEN. PROVIDE NEW BASEBOARD TO MATCH EXISTING AS REQUIRED.
13	WHERE PIPING, DUCTWORK, AND/OR EQUIPMENT WAS REMOVED, PATCH AND PAINT EXISTING GYPSUM BOARD/PLASTER WALL TO MATCH ADJACENT SURFACE IN COLOR, TEXTURE, AND SHEEN. PROVIDE NEW BASEBOARD TO MATCH EXISTING AS REQUIRED.
14	PROVIDE NEW AREA WELL WALLS WITH GRATED COVER OVER OPENING. SEE STRUCTURAL DRAWINGS FOR ADDITIONAL INFORMATION.
15	PROVIDE NEW 10'-0" WIDE x 8'-0" HIGH RAYNOR INSULATED GARAGE DOOR, COMPLETE WITH RAILS, OPENER, REMOTE CONTROL, AND OPENING CONTROLS ON THE INSIDE FACE OF THE DOOR JAMB. DOOR COLOR TO BE WHITE. SEE STRUCTURAL DRAWINGS FOR LINTEL INFORMATION.
16	NEW MECHANICAL UNIT - REFER TO MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.
17	8" DEEP BY 42" PIPE CHASE ENCLOSURE BELOW WINDOWS. ENCLOSURE TO BE CONSTRUCTED OF 3-5/8" METAL STUDS WITH 5/8" GYPSUM BOARD. PROVIDE GYPSUM BOARD AT ALL SIDES AND PAINT TO MATCH ADJACENT WALL.
18	PROVIDE AND INSTALL NEW 16" LONG BY 4'-0" CLARIDGE DRY ERASE WHITE BOARD. WHITE BOARD TO BE CENTERED ON WALL.
19	PROVIDE AND INSTALL NEW 14" LONG BY 4'-0" CLARIDGE DRY ERASE WHITE BOARD. WHITE BOARD TO BE CENTERED ON WALL.
20	REMOVE/REPLACE ACOUSTICAL PANELS TO COORDINATE WITH NEW DUCTWORK IN CAFETERIA.
21	IN LOCATIONS WHERE PIPING, DUCTWORK, AND/OR EQUIPMENT WAS REMOVED, INFILL WITH GLAZING TO MATCH ADJACENT GLAZING. IN LOCATION WHERE PIPING, DUCTWORK, AND/OR EQUIPMENT WAS ROUTED THROUGH EXISTING GLAZING, PROVIDE AN ALUMINUM INFILL PANEL.
22	WHERE NEW PIPIPNG AND/OR DUCTWORK HAS BEEN ROUTED THROUGH AN EXISTING MASONRY WALL - INFILL HOLES TIGHT TO NEW PIPING AND/OR DUCT WORK WITH FULL CMU- MATCH THICKNESS , COURSING , TEXTURE AND COLOR. PROVIDE FIRE CAULK AROUND PENETRATION. WHERE INFILL IS EXPOSED ANS VISIBLE , PAINT TO MACH EXISTING ADJCENT SURFACE
23	REINSTALL SALVAGED CASEWORK

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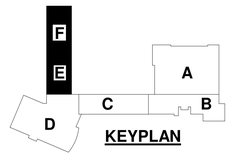

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Checked	MS
Approved	Approver

SHEET TITLE

FIRST FLOOR PLAN - AREAS E & F

SCALE

Scale: As indicated

SHEET NUMBER

A1.01E

NEW WORK KEYNOTES

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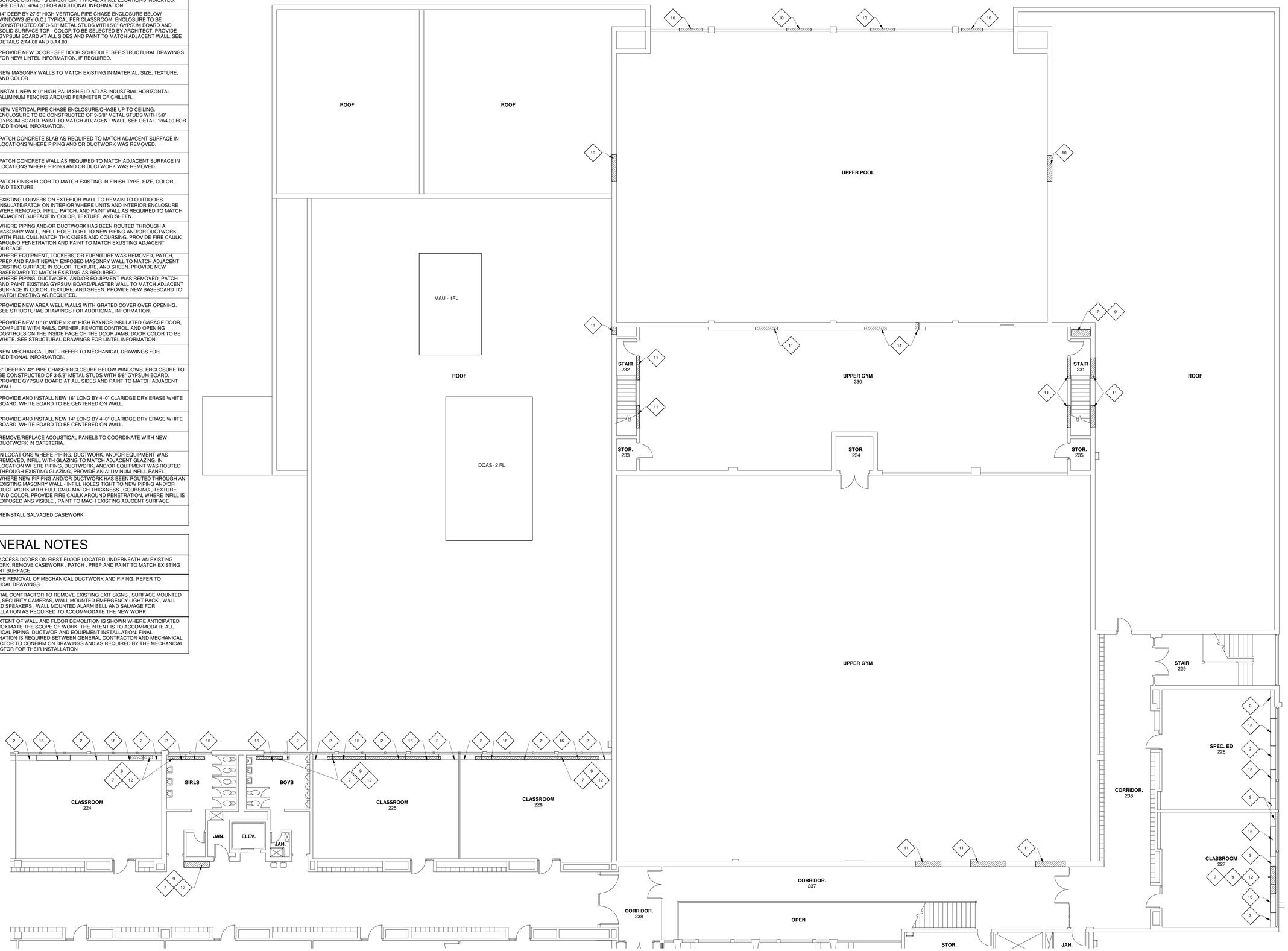

NORTH

1 **SECOND FLOOR PLAN - AREA A**

1/8" = 1'-0"

LEGEND

- DEMOLITION WORK
- NEW WORK

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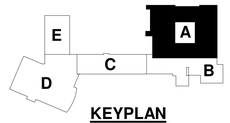

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Approved	Approver

SHEET TITLE

SECOND FLOOR PLAN - AREA A

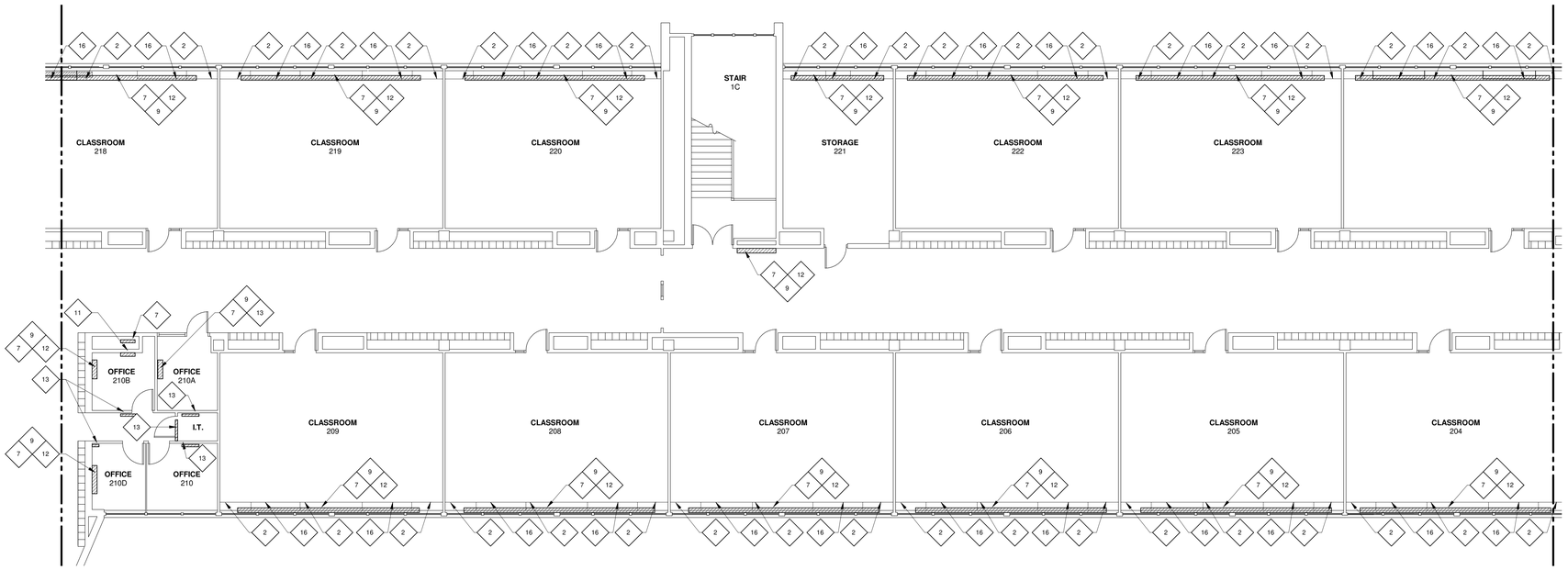
SCALE

Scale: As indicated

SHEET NUMBER

A1.02A

21011.30 28/01/2022 16:21:38 ESSER HVAC Improvements - Flinn Middle School



2 SECOND FLOOR PLAN - AREA C

1/8" = 1'-0"

LEGEND

	DEMOLITION WORK
	NEW WORK

GENERAL NOTES

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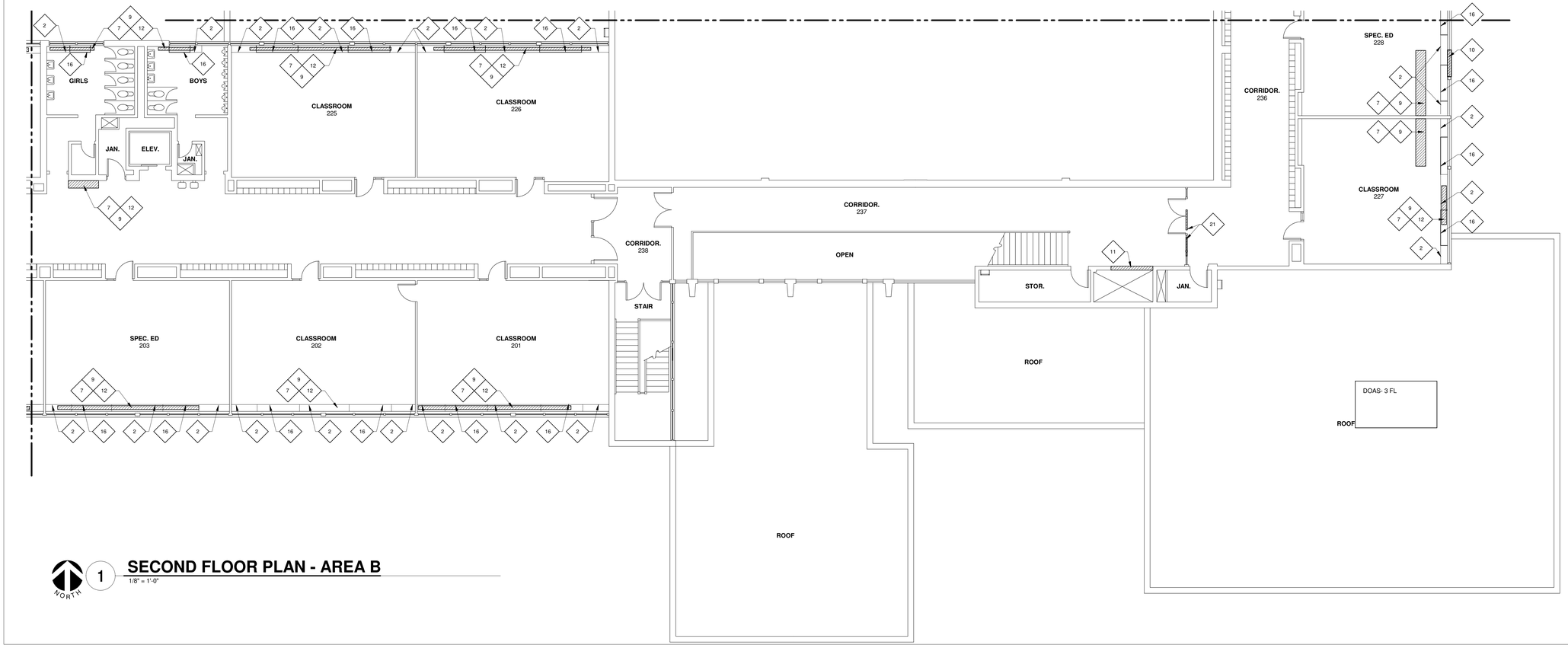

1 SECOND FLOOR PLAN - AREA B

1/8" = 1'-0"

21011.30 28/01/2022 16:21:42 ESSER HVAC Improvements - Flinn Middle School

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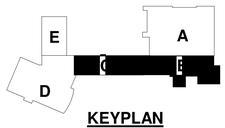
KEY PLAN



KEYPLAN

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REVISIONS

No.	Date	Revision / Issue

SHEET INFORMATION

Issue	BID DOCUMENTS
Date	JANUARY 28 , 2022
Job Number	21011.30
Drawn	CM / MI
Checked	MS
Approved	Approver

SHEET TITLE

SECOND FLOOR PLAN - AREAS B & C

SCALE

Scale: **As indicated**

SHEET NUMBER

A1.02B

NORTH

1

SECOND FLOOR PLAN - AREA D

1/8" = 1'-0"

LEGEND

- DEMOLITION WORK
- NEW WORK

GENERAL NOTES

1. ALL ACCESS DOORS ON FIRST FLOOR LOCATED UNDERNEATH AN EXISTING CASE WORK, REMOVE CASEWORK , PATCH , PREP AND PAINT TO MATCH EXISTING ADJACENT SURFACE
2. FOR THE REMOVAL OF MECHANICAL DUCTWORK AND PIPING, REFER TO MECHANICAL DRAWINGS
3. GENERAL CONTRACTOR TO REMOVE EXISTING EXIT SIGNS , SURFACE MOUNTED CLOCKS, SECURITY CAMERAS, WALL MOUNTED EMERGENCY LIGHT PACK , WALL MOUNTED SPEAKERS , WALL MOUNTED ALARM BELL AND SALVAGE FOR REINSTALLATION AS REQUIRED TO ACCOMMODATE THE NEW WORK
4. THE EXTENT OF WALL AND FLOOR DEMOLITION IS SHOWN WHERE ANTICIPATED TO APPROXIMATE THE SCOPE OF WORK. THE INTENT IS TO ACCOMMODATE ALL MECHANICAL PIPING, DUCTWOR AND EQUIPMENT INSTALLATION. FINAL COORDINATION IS REQUIRED BETWEEN GENERAL CONTRACTOR AND MECHANICAL CONTRACTOR TO CONFIRM ON DRAWINGS AND AS REQUIRED BY THE MECHANICAL CONTRACTOR FOR THEIR INSTALLATION

NEW WORK KEYNOTES

1	NEW 2'x3' ACCESS DOOR WITH A HINGED AND LOCKABLE DOOR AT THE SCHOOL DISTRICT'S DIRECTION. TYPICAL AT ALL LOCATIONS INDICATED. SEE DETAIL 4/A4.00 FOR ADDITIONAL INFORMATION.
2	14" DEEP BY 27.6" HIGH VERTICAL PIPE CHASE ENCLOSURE BELOW WINDOWS (BY G.C.) TYPICAL PER CLASSROOM. ENCLOSURE TO BE CONSTRUCTED OF 3-5/8" METAL STUDS WITH 5/8" GYPSUM BOARD AND SOLID SURFACE TOP - COLOR TO BE SELECTED BY ARCHITECT. PROVIDE GYPSUM BOARD AT ALL SIDES AND PAINT TO MATCH ADJACENT WALL. SEE DETAILS 2/A4.00 AND 3/A4.00.
3	PROVIDE NEW DOOR - SEE DOOR SCHEDULE. SEE STRUCTURAL DRAWINGS FOR NEW LINTEL INFORMATION, IF REQUIRED.
4	NEW MASONRY WALLS TO MATCH EXISTING IN MATERIAL, SIZE, TEXTURE, AND COLOR.
5	INSTALL NEW 8'-0" HIGH PALM SHIELD ATLAS INDUSTRIAL HORIZONTAL ALUMINUM FENCING AROUND PERIMETER OF CHILLER.
6	NEW VERTICAL PIPE CHASE ENCLOSURE/CHASE UP TO CEILING. ENCLOSURE TO BE CONSTRUCTED OF 3-5/8" METAL STUDS WITH 5/8" GYPSUM BOARD. PAINT TO MATCH ADJACENT WALL. SEE DETAIL 1/A4.00 FOR ADDITIONAL INFORMATION.
7	PATCH CONCRETE SLAB AS REQUIRED TO MATCH ADJACENT SURFACE IN LOCATIONS WHERE PIPING AND OR DUCTWORK WAS REMOVED.
8	PATCH CONCRETE WALL AS REQUIRED TO MATCH ADJACENT SURFACE IN LOCATIONS WHERE PIPING AND OR DUCTWORK WAS REMOVED.
9	PATCH FINISH FLOOR TO MATCH EXISTING IN FINISH TYPE, SIZE, COLOR, AND TEXTURE.
10	EXISTING LOUVERS ON EXTERIOR WALL TO REMAIN TO OUTDOORS. INSULATE/PATCH ON INTERIOR WHERE UNITS AND INTERIOR ENCLOSURE WERE REMOVED. INFILL, PATCH, AND PAINT WALL AS REQUIRED TO MATCH ADJACENT SURFACE IN COLOR, TEXTURE, AND SHEEN.
11	WHERE PIPING AND/OR DUCTWORK HAS BEEN ROUTED THROUGH A MASONRY WALL, INFILL HOLE TIGHT TO NEW PIPING AND/OR DUCTWORK WITH FULL CMU. MATCH THICKNESS AND COURSING. PROVIDE FIRE CAULK AROUND PENETRATION AND PAINT TO MATCH EXUSTING ADJACENT SURFACE.
12	WHERE EQUIPMENT, LOCKERS, OR FURNITURE WAS REMOVED, PATCH, PREP AND PAINT NEWLY EXPOSED MASONRY WALL TO MATCH ADJACENT EXISTING SURFACE IN COLOR, TEXTURE, AND SHEEN. PROVIDE NEW BASEBOARD TO MATCH EXISTING AS REQUIRED.
13	WHERE PIPING, DUCTWORK, AND/OR EQUIPMENT WAS REMOVED, PATCH AND PAINT EXISTING GYPSUM BOARD/PLASTER WALL TO MATCH ADJACENT SURFACE IN COLOR, TEXTURE, AND SHEEN. PROVIDE NEW BASEBOARD TO MATCH EXISTING AS REQUIRED.
14	PROVIDE NEW AREA WELL WALLS WITH GRATED COVER OVER OPENING. SEE STRUCTURAL DRAWINGS FOR ADDITIONAL INFORMATION.
15	PROVIDE NEW 10'-0" WIDE x 8'-0" HIGH RAYNOR INSULATED GARAGE DOOR, COMPLETE WITH RAILS, OPENER, REMOTE CONTROL, AND OPENING CONTROLS ON THE INSIDE FACE OF THE DOOR JAMB. DOOR COLOR TO BE WHITE. SEE STRUCTURAL DRAWINGS FOR LINTEL INFORMATION.
16	NEW MECHANICAL UNIT - REFER TO MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.
17	8" DEEP BY 42" PIPE CHASE ENCLOSURE BELOW WINDOWS. ENCLOSURE TO BE CONSTRUCTED OF 3-5/8" METAL STUDS WITH 5/8" GYPSUM BOARD. PROVIDE GYPSUM BOARD AT ALL SIDES AND PAINT TO MATCH ADJACENT WALL.
18	PROVIDE AND INSTALL NEW 16" LONG BY 4'-0" CLARIDGE DRY ERASE WHITE BOARD. WHITE BOARD TO BE CENTERED ON WALL.
19	PROVIDE AND INSTALL NEW 14" LONG BY 4'-0" CLARIDGE DRY ERASE WHITE BOARD. WHITE BOARD TO BE CENTERED ON WALL.
20	REMOVE/REPLACE ACOUSTICAL PANELS TO COORDINATE WITH NEW DUCTWORK IN CAFETERIA.
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22	WHERE NEW PIPIPNG AND/OR DUCTWORK HAS BEEN ROUTED THROUGH AN EXISTING MASONRY WALL - INFILL HOLES TIGHT TO NEW PIPING AND/OR DUCT WORK WITH FULL CMU- MATCH THICKNESS , COURSING , TEXTURE AND COLOR. PROVIDE FIRE CAULK AROUND PENETRATION, WHERE INFILL IS EXPOSED ANS VISIBLE , PAINT TO MACH EXISTING ADJCENT SURFACE
23	REINSTALL SALVAGED CASEWORK

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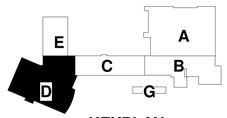

KEYPLAN

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Approved	Approver

SHEET TITLE

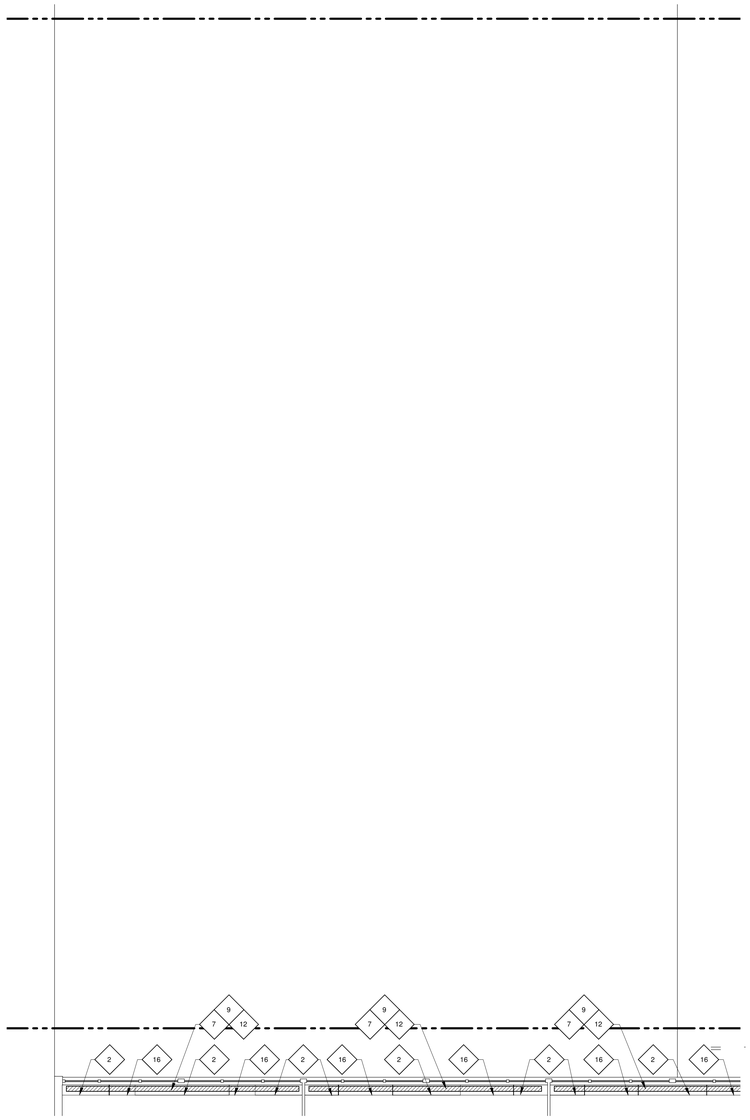
SECOND FLOOR PLAN - AREA D

SCALE

Scale: As indicated

SHEET NUMBER

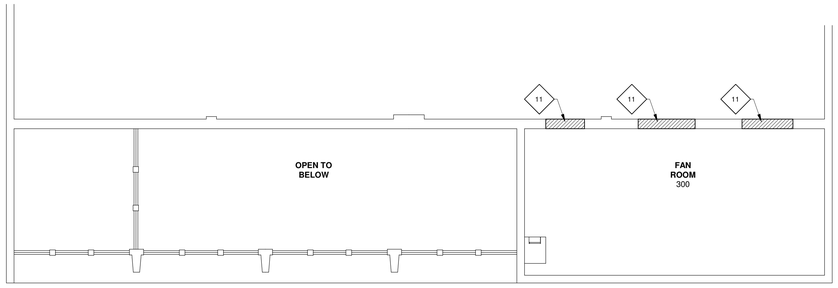
A1.02D



NORTH

1 SECOND FLOOR PLAN - AREA E

1/8" = 1'-0"



NORTH

2 THIRD FLOOR PLAN - AREA B - FAN ROOM

1/8" = 1'-0"

LEGEND

- DEMOLITION WORK
- NEW WORK

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23	REINSTALL SALVAGED CASEWORK

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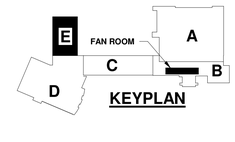
KEY PLAN



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Approved	Approver

SHEET TITLE

SECOND FLOOR PLAN - AREA E AND THIRD FLOOR PLAN - AREA B - FAN ROOM

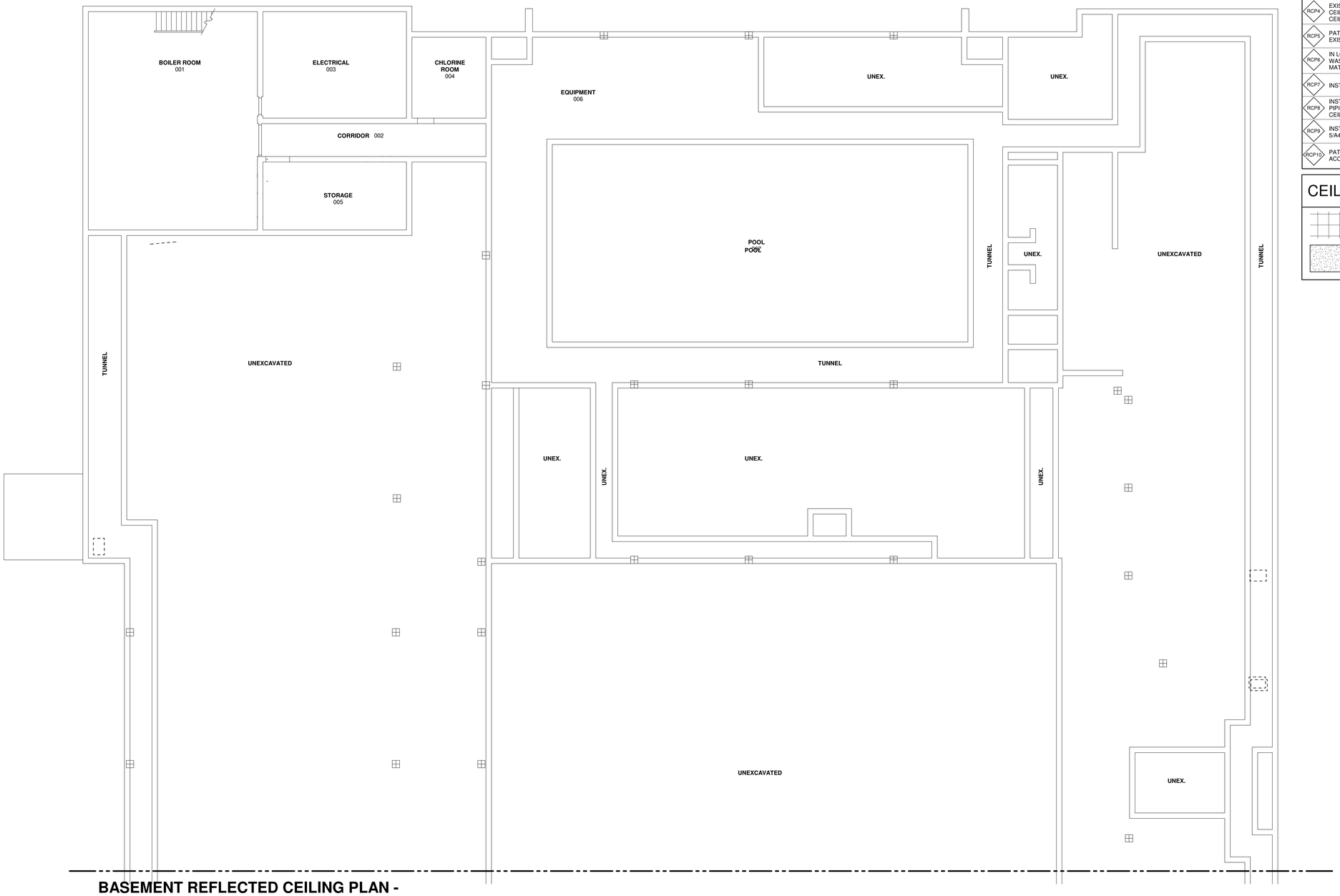
SCALE

Scale: As indicated

SHEET NUMBER

A1.03B

21011.30 28/01/2022 16:21:47 ESSER HVAC Improvements - Flinn Middle School



BASEMENT REFLECTED CEILING PLAN - AREA A

1

1/8" = 1'-0"

NORTH

GENERAL NOTES

1. ALL ACCESS DOORS ON FIRST FLOOR LOCATED UNDERNEATH AN EXISTING CASE WORK, REMOVE CASEWORK , PATCH , PREP AND PAINT TO MATCH EXISTING ADJACENT SURFACE
2. FOR THE REMOVAL OF MECHANICAL DUCTWORK AND PIPING, REFER TO MECHANICAL DRAWINGS
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REFLECTED CEILING PLAN KEY NOTES

RCP1	INSTALL NEW GYPSUM BOARD CEILING TO MATCH EXISTING CEILING HEIGHT - UNLESS NOTED OTHERWISE. REINSTALL EXISTING GRILLES.
RCP2	PATCH, PREP, AND PAINT PLASTER CEILING. SCRAPE POPCORN CEILING IN ITS ENTIRETY TO A SMOOTH TEXTURE AND PAINT
RCP3	INSTALL NEW GYPSUM BOARD CEILING TO MATCH EXISTING CEILING HEIGHT.
RCP4	EXISTING HOOD ON ROOF TO REMAIN TO OUTDOORS. INSULATE AND PATCH CEILING ON INTERIOR AS REQUIRED WHERE UNIT IS REMOVED. PAINT CEILING TO MATCH ADJACENT SURFACE IN COLOR, TEXTURE, AND SHEEN.
RCP5	PATCH, REPAIR, AND PAINT EXISTING CEILING AS REQUIRED TO MATCH EXISTING AROUND AREAS OF NEW WORK.
RCP6	IN LOCATIONS WHERE EXISTING PIPING, DUCTWORK, AND/OR EQUIPMENT WAS REMOVED. PATCH EXISTING CEILING AND ROOFING STRUCTURE TO MATCH EXISTING
RCP7	INSTALL NEW EXTERIOR SOFFIT.
RCP8	INSTALL NEW GYPSUM BOARD SOFFIT AS REQUIRED TO ACCOMODATE NEW PIPING AND DUCTWORK. SOFFIT TO BE PAINTED TO MATCH ADJACENT CEILING SURFACE IN COLOR, TEXTURE, AND SHEEN.
RCP9	INSTALL NEW SUSPENDED ACOUSTICAL CEILING TILE CLOUD - SEE DETAIL 5/A4.00 FOR ADDITIONAL INFORMATION.
RCP10	PATCH AND PAINT CEILING TO MATCH EXISTING IN AREAS WHERE ACOUSTICAL PANELS WERE REMOVED TO COORDINATE WITH DUCTWORK.

CEILING PLAN LEGEND

	2X2 SUSPENDED ACT CEILING SYSTEM
	GYPSUM BOARD CEILING SYSTEM

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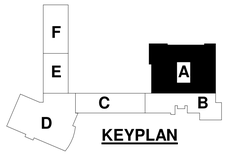

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SHEET TITLE

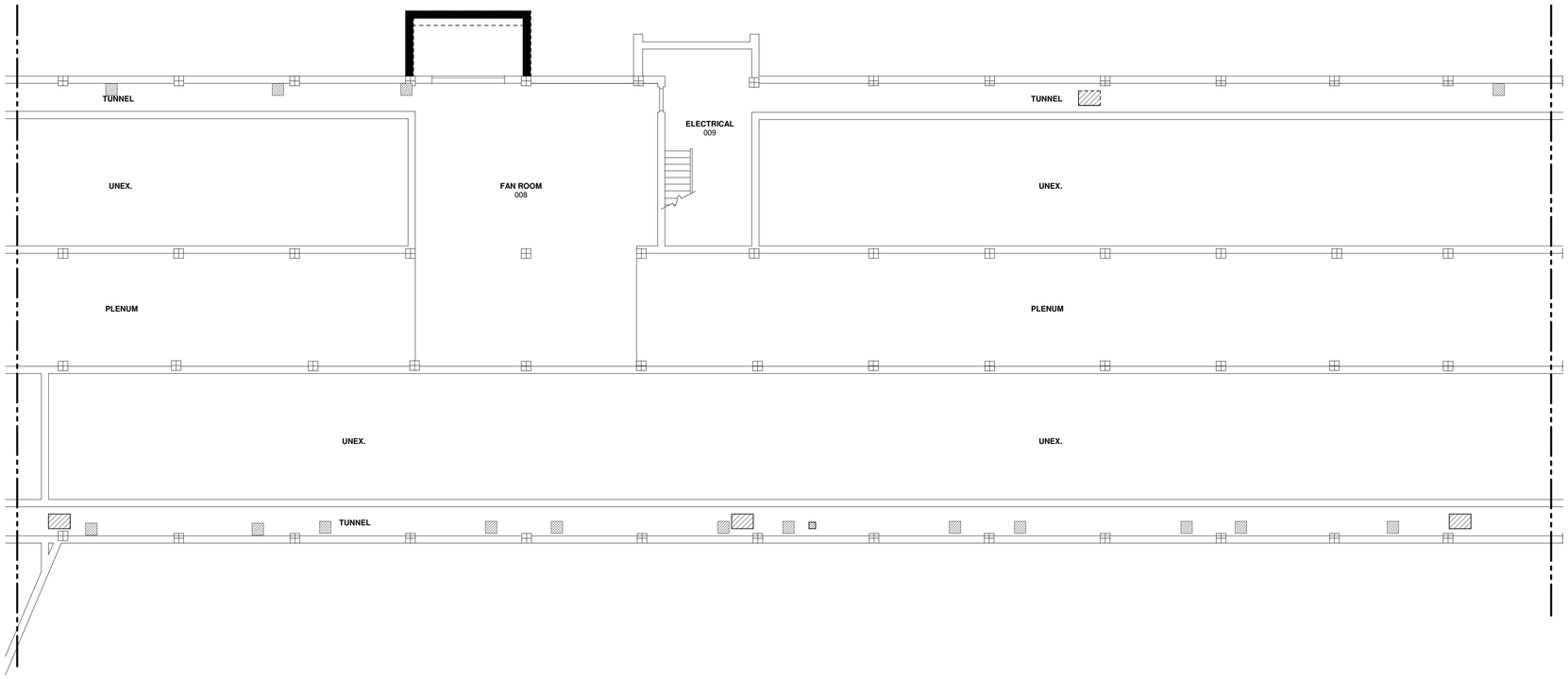
BASEMENT REFLECTED CEILING PLAN - AREA A

SCALE

Scale: As indicated

SHEET NUMBER

A2.00A



BASEMENT REFLECTED CEILING PLAN - AREA C

NORTH 1

1/8" = 1'-0"

GENERAL NOTES

1. ALL ACCESS DOORS ON FIRST FLOOR LOCATED UNDERNEATH AN EXISTING CASE WORK, REMOVE CASEWORK , PATCH , PREP AND PAINT TO MATCH EXISTING ADJACENT SURFACE
2. FOR THE REMOVAL OF MECHANICAL DUCTWORK AND PIPING, REFER TO MECHANICAL DRAWINGS
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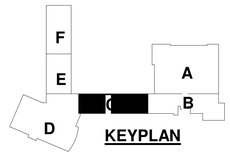
KEY PLAN



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REVISIONS

No.	Date	Revision / Issue

SHEET INFORMATION

Issue	BID DOCUMENTS
Date	JANUARY 28 , 2022
Job Number	21011.30
Drawn	CM / MI
Checked	MS
Approved	Approver

SHEET TITLE

BASEMENT REFLECTED CEILING PLAN - AREA C

SCALE

Scale: As indicated

SHEET NUMBER

A2.00C

21011.30 28/01/2022 16:21:49 ESSER HVAC Improvements - Flinn Middle School

GENERAL NOTES

1. ALL ACCESS DOORS ON FIRST FLOOR LOCATED UNDERNEATH AN EXISTING CASE WORK, REMOVE CASEWORK , PATCH , PREP AND PAINT TO MATCH EXISTING ADJACENT SURFACE

2. FOR THE REMOVAL OF MECHANICAL DUCTWORK AND PIPING, REFER TO MECHANICAL DRAWINGS

3. GENERAL CONTRACTOR TO REMOVE EXISTING EXIT SIGNS , SURFACE MOUNTED CLOCKS, SECURITY CAMERAS, WALL MOUNTED EMERGENCY LIGHT PACK , WALL MOUNTED SPEAKERS , WALL MOUNTED ALARM BELL AND SALVAGE FOR REINSTALLATION AS REQUIRED TO ACCOMMODATE THE NEW WORK

4. THE EXTENT OF WALL AND FLOOR DEMOLITION IS SHOWN WHERE ANTICIPATED TO APPROXIMATE THE SCOPE OF WORK. THE INTENT IS TO ACCOMMODATE ALL MECHANICAL PIPING. DUCTWOR AND EQUIPMENT INSTALLATION. FINAL COORDINATION IS REQUIRED BETWEEN GENERAL CONTRACTOR AND MECHANICAL CONTRACTOR TO CONFIRM ON DRAWINGS AND AS REQUIRED BY THE MECHANICAL CONTRACTOR FOR THEIR INSTALLATION

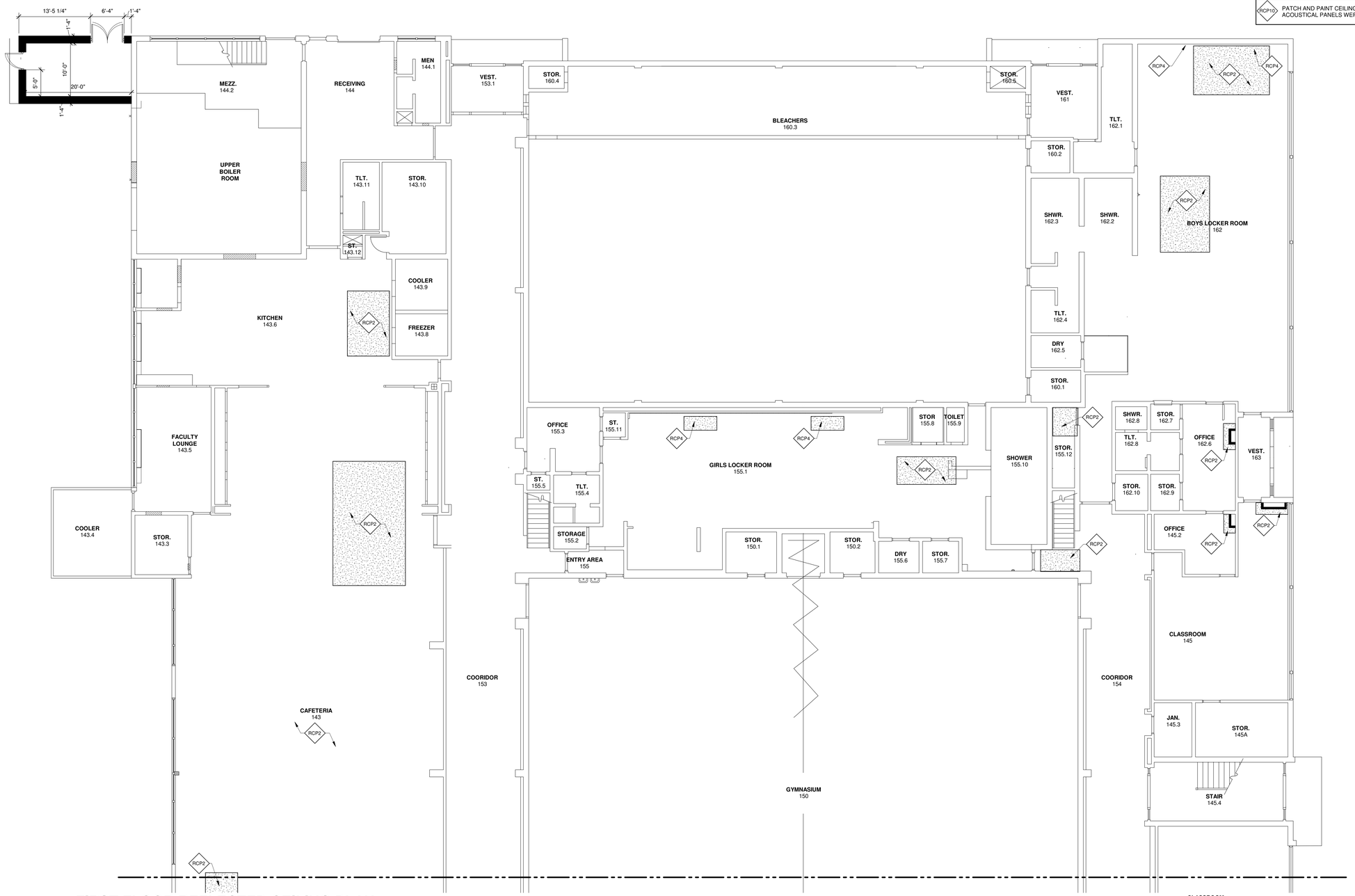
CEILING PLAN LEGEND

2X2 SUSPENDED ACT CEILING SYSTEM

GYPSUM BOARD CEILING SYSTEM

REFLECTED CEILING PLAN KEY NOTES

RCP1	INSTALL NEW GYPSUM BOARD CEILING TO MATCH EXISTING CEILING HEIGHT - UNLESS NOTED OTHERWISE. REINSTALL EXISTING GRILLES.
RCP2	PATCH, PREP, AND PAINT PLASTER CEILING. SCRAPE POPCORN CEILING IN ITS ENTIRETY TO A SMOOTH TEXTURE AND PAINT
RCP3	INSTALL NEW GYPSUM BOARD CEILING TO MATCH EXISTING CEILING HEIGHT.
RCP4	EXISTING HOOD ON ROOF TO REMAIN TO OUTDOORS. INSULATE AND PATCH CEILING ON INTERIOR AS REQUIRED WHERE UNIT IS REMOVED. PAINT CEILING TO MATCH ADJACENT SURFACE IN COLOR, TEXTURE, AND SHEEN.
RCP5	PATCH, REPAIR, AND PAINT EXISTING CEILING AS REQUIRED TO MATCH EXISTING AROUND AREAS OF NEW WORK.
RCP6	IN LOCATIONS WHERE EXISTING PIPING, DUCTWORK, AND/OR EQUIPMENT WAS REMOVED. PATCH EXISTING CEILING AND ROOFING STRUCTURE TO MATCH EXISTING
RCP7	INSTALL NEW EXTERIOR SOFFIT.
RCP8	INSTALL NEW GYPSUM BOARD SOFFIT AS REQUIRED TO ACCOMODATE NEW PIPING AND DUCTWORK. SOFFIT TO BE PAINTED TO MATCH ADJACENT CEILING SURFACE IN COLOR, TEXTURE, AND SHEEN.
RCP9	INSTALL NEW SUSPENDED ACOUSTICAL CEILING TILE CLOUD - SEE DETAIL 5/A4.00 FOR ADDITIONAL INFORMATION.
RCP10	PATCH AND PAINT CEILING TO MATCH EXISTING IN AREAS WHERE ACOUSTICAL PANELS WERE REMOVED TO COORDINATE WITH DUCTWORK.



FIRST FLOOR REFLECTED CEILING PLAN - AREA A

1

1/8" = 1'-0"

NORTH

21011.30 28/01/2022 16:21:51 ESSER HVAC Improvements - Flinn Middle School

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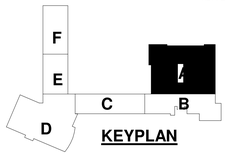
KEY PLAN



KEYPLAN

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SHEET TITLE

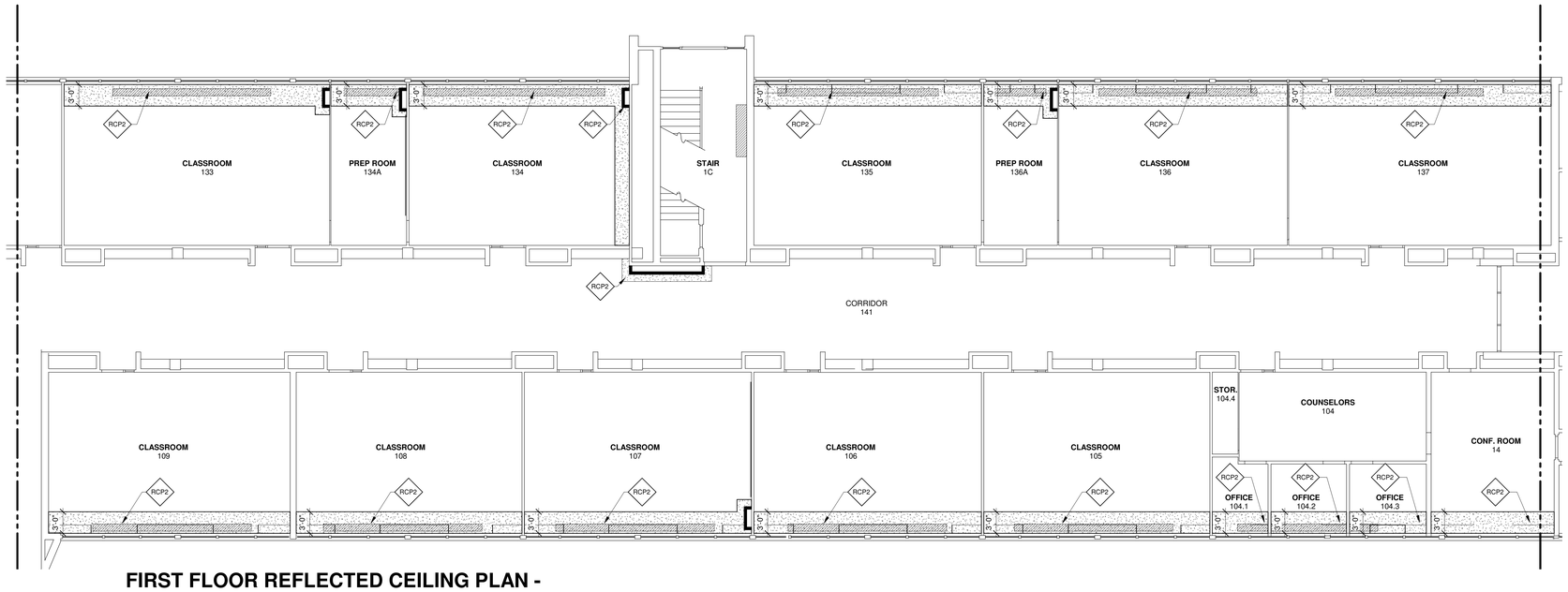
FIRST FLOOR REFLECTED CEILING PLAN - AREA A

SCALE

Scale: As indicated

SHEET NUMBER

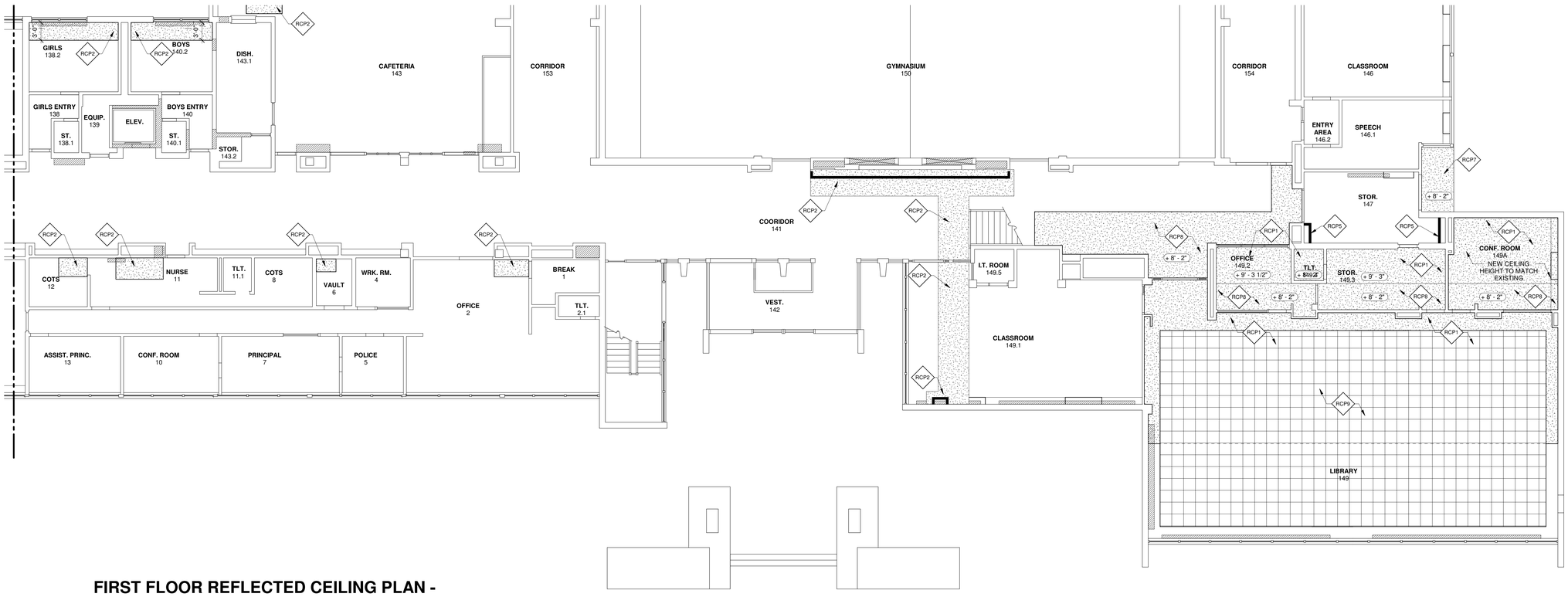
A2.01A



FIRST FLOOR REFLECTED CEILING PLAN - AREA C

2

1/8" = 1'-0"



FIRST FLOOR REFLECTED CEILING PLAN - AREA B

1

1/8" = 1'-0"

GENERAL NOTES

1. ALL ACCESS DOORS ON FIRST FLOOR LOCATED UNDERNEATH AN EXISTING CASE WORK. REMOVE CASEWORK , PATCH , PREP AND PAINT TO MATCH EXISTING ADJACENT SURFACE
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RCP2	PATCH, PREP, AND PAINT PLASTER CEILING. SCRAPE POPCORN CEILING IN ITS ENTIRETY TO A SMOOTH TEXTURE AND PAINT
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CEILING PLAN LEGEND

	2X2 SUSPENDED ACT CEILING SYSTEM
	GYPSUM BOARD CEILING SYSTEM

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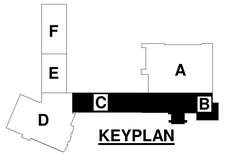

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SHEET TITLE

FIRST FLOOR RELFECTED CEILING PLAN - AREAS B & C

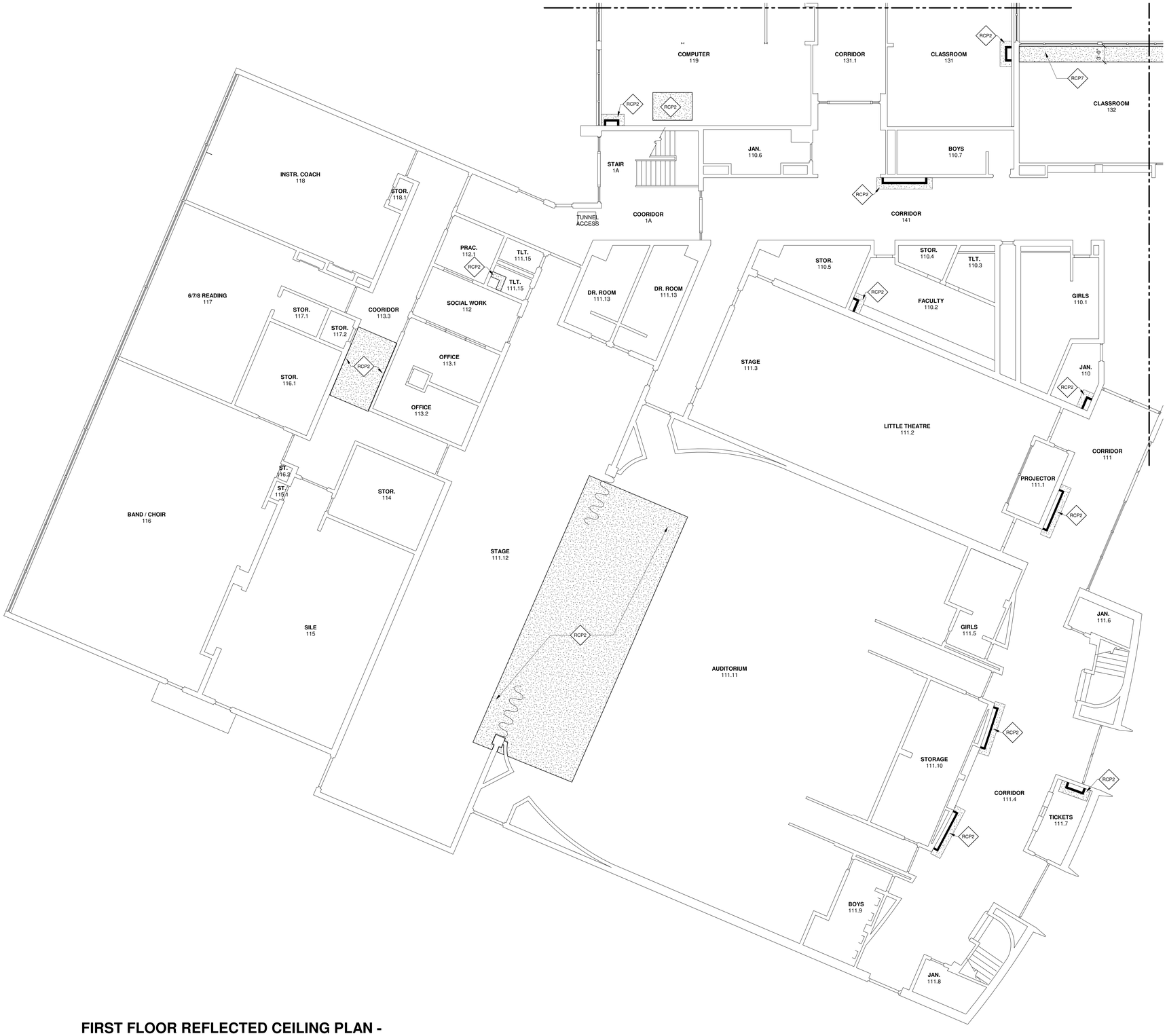
SCALE

Scale: As indicated

SHEET NUMBER

A2.01B

21011.30 28/01/2022 16:21:53 ESSER HVAC Improvements - Flinn Middle School



FIRST FLOOR REFLECTED CEILING PLAN - AREA D

1

1/8" = 1'-0"

NORTH

GENERAL NOTES

1. ALL ACCESS DOORS ON FIRST FLOOR LOCATED UNDERNEATH AN EXISTING CASE WORK, REMOVE CASEWORK , PATCH , PREP AND PAINT TO MATCH EXISTING ADJACENT SURFACE
2. FOR THE REMOVAL OF MECHANICAL DUCTWORK AND PIPING, REFER TO MECHANICAL DRAWINGS
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RCP10	PATCH AND PAINT CEILING TO MATCH EXISTING IN AREAS WHERE ACOUSTICAL PANELS WERE REMOVED TO COORDINATE WITH DUCTWORK.

CEILING PLAN LEGEND

	2X2 SUSPENDED ACT CEILING SYSTEM
	GYPSUM BOARD CEILING SYSTEM

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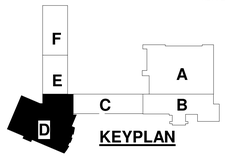

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Checked	MS
Approved	Approver

SHEET TITLE

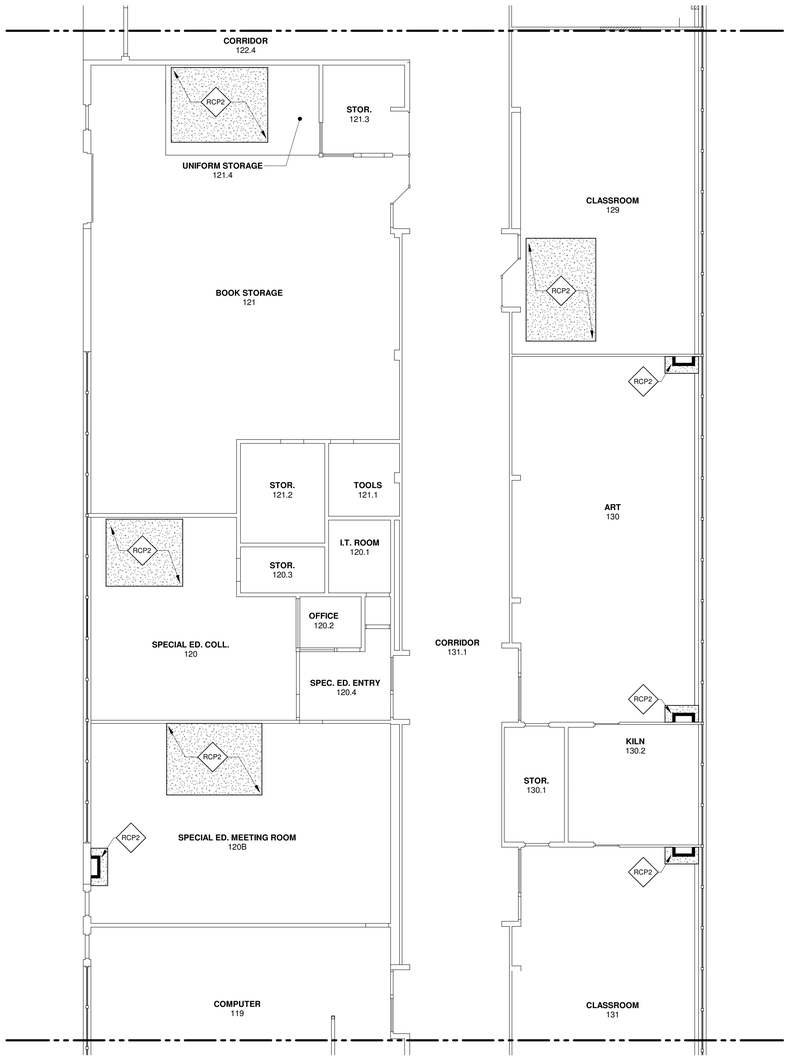
FIRST FLOOR REFLECTED CEILING PLAN - AREA D

SCALE

Scale: As indicated

SHEET NUMBER

A2.01D



NORTH 1

FIRST FLOOR REFLECTED CEILING PLAN - AREA E

1/8" = 1'-0"

NORTH 2

FIRST FLOOR REFLECTED CEILING PLAN - AREA F

1/8" = 1'-0"

GENERAL NOTES

1. ALL ACCESS DOORS ON FIRST FLOOR LOCATED UNDERNEATH AN EXISTING CASE WORK, REMOVE CASEWORK , PATCH , PREP AND PAINT TO MATCH EXISTING ADJACENT SURFACE
2. FOR THE REMOVAL OF MECHANICAL DUCTWORK AND PIPING, REFER TO MECHANICAL DRAWINGS
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RCP5	PATCH, REPAIR, AND PAINT EXISTING CEILING AS REQUIRED TO MATCH EXISTING AROUND AREAS OF NEW WORK.
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CEILING PLAN LEGEND

2X2 SUSPENDED ACT CEILING SYSTEM

GYPSUM BOARD CEILING SYSTEM

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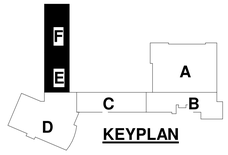

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FIRST FLOOR REFLECTED CEILING PLAN - AREAS E & F

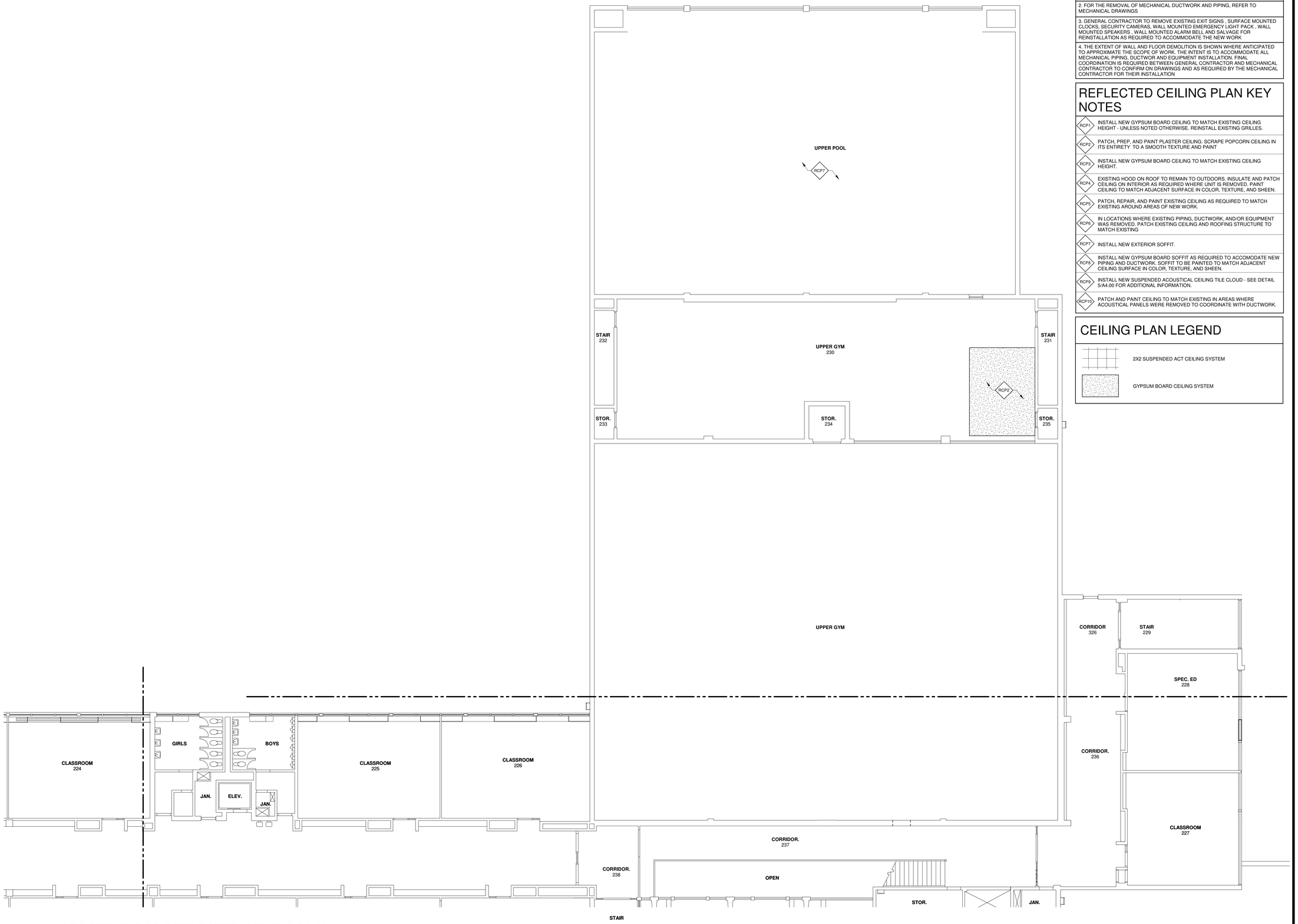
SCALE

Scale: As indicated

SHEET NUMBER

A2.01E

21011.30 28/01/2022 16:21:57 ESSER HVAC Improvements - Flinn Middle School



SECOND FLOOR REFLECTED CEILING PLAN - AREA A

1

1/8" = 1'-0"

NORTH

GENERAL NOTES

1. ALL ACCESS DOORS ON FIRST FLOOR LOCATED UNDERNEATH AN EXISTING CASE WORK, REMOVE CASEWORK , PATCH , PREP AND PAINT TO MATCH EXISTING ADJACENT SURFACE
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CEILING PLAN LEGEND

	2X2 SUSPENDED ACT CEILING SYSTEM
	GYPSUM BOARD CEILING SYSTEM

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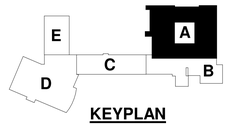
KEY PLAN



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REVISIONS

No.	Date	Revision / Issue

SHEET INFORMATION

Issue	BID DOCUMENTS
Date	JANUARY 28 , 2022
Job Number	21011.30
Drawn	CM / MI
Checked	MS
Approved	Approver

SHEET TITLE

SECOND FLOOR REFLECTED CEILING PLAN - AREA A

SCALE

Scale: As indicated

SHEET NUMBER

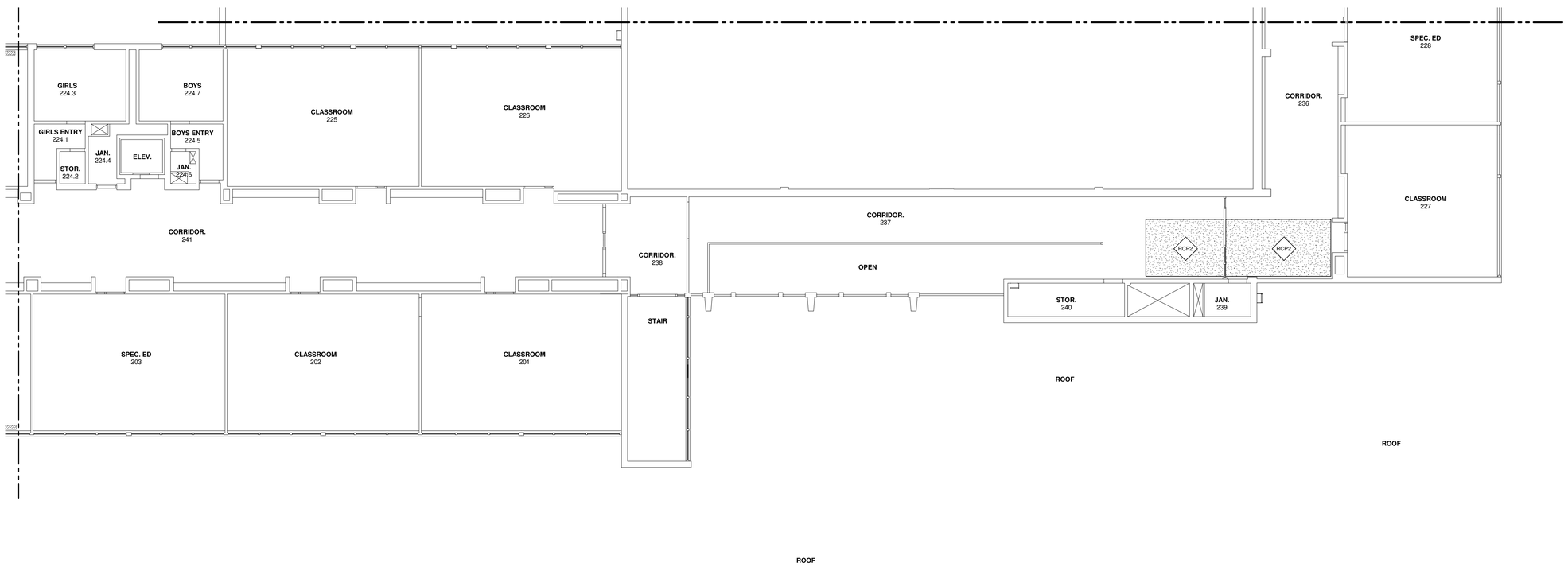
A2.02A

21011.30 28/01/2022 16:21:58 ESSER HVAC Improvements - Flinn Middle School

NORTH 2

SECOND FLOOR REFLECTED CEILING PLAN - AREA C

1/8" = 1'-0"



NORTH 1

SECOND FLOOR REFLECTED CEILING PLAN - AREA B

1/8" = 1'-0"

GENERAL NOTES

1. ALL ACCESS DOORS ON FIRST FLOOR LOCATED UNDERNEATH AN EXISTING CASE WORK, REMOVE CASEWORK , PATCH , PREP AND PAINT TO MATCH EXISTING ADJACENT SURFACE
2. FOR THE REMOVAL OF MECHANICAL DUCTWORK AND PIPING, REFER TO MECHANICAL DRAWINGS
3. GENERAL CONTRACTOR TO REMOVE EXISTING EXIT SIGNS , SURFACE MOUNTED CLOCKS, SECURITY CAMERAS, WALL MOUNTED EMERGENCY LIGHT PACK , WALL MOUNTED SPEAKERS , WALL MOUNTED ALARM BELL AND SALVAGE FOR REINSTALLATION AS REQUIRED TO ACCOMMODATE THE NEW WORK
4. THE EXTENT OF WALL AND FLOOR DEMOLITION IS SHOWN WHERE ANTICIPATED TO APPROXIMATE THE SCOPE OF WORK. THE INTENT IS TO ACCOMMODATE ALL MECHANICAL PIPING, DUCTWOR AND EQUIPMENT INSTALLATION. FINAL COORDINATION IS REQUIRED BETWEEN GENERAL CONTRACTOR AND MECHANICAL CONTRACTOR TO CONFIRM ON DRAWINGS AND AS REQUIRED BY THE MECHANICAL CONTRACTOR FOR THEIR INSTALLATION

REFLECTED CEILING PLAN KEY NOTES

RCP1	INSTALL NEW GYPSUM BOARD CEILING TO MATCH EXISTING CEILING HEIGHT - UNLESS NOTED OTHERWISE. REINSTALL EXISTING GRILLES.
RCP2	PATCH, PREP, AND PAINT PLASTER CEILING. SCRAPE POPCORN CEILING IN ITS ENTIRETY TO A SMOOTH TEXTURE AND PAINT
RCP3	INSTALL NEW GYPSUM BOARD CEILING TO MATCH EXISTING CEILING HEIGHT.
RCP4	EXISTING HOOD ON ROOF TO REMAIN TO OUTDOORS. INSULATE AND PATCH CEILING ON INTERIOR AS REQUIRED WHERE UNIT IS REMOVED. PAINT CEILING TO MATCH ADJACENT SURFACE IN COLOR, TEXTURE, AND SHEEN.
RCP5	PATCH, REPAIR, AND PAINT EXISTING CEILING AS REQUIRED TO MATCH EXISTING AROUND AREAS OF NEW WORK.
RCP6	IN LOCATIONS WHERE EXISTING PIPING, DUCTWORK, AND/OR EQUIPMENT WAS REMOVED. PATCH EXISTING CEILING AND ROOFING STRUCTURE TO MATCH EXISTING
RCP7	INSTALL NEW EXTERIOR SOFFIT.
RCP8	INSTALL NEW GYPSUM BOARD SOFFIT AS REQUIRED TO ACCOMODATE NEW PIPING AND DUCTWORK. SOFFIT TO BE PAINTED TO MATCH ADJACENT CEILING SURFACE IN COLOR, TEXTURE, AND SHEEN.
RCP9	INSTALL NEW SUSPENDED ACOUSTICAL CEILING TILE CLOUD - SEE DETAIL 5/A4.00 FOR ADDITIONAL INFORMATION.
RCP10	PATCH AND PAINT CEILING TO MATCH EXISTING IN AREAS WHERE ACOUSTICAL PANELS WERE REMOVED TO COORDINATE WITH DUCTWORK.

CEILING PLAN LEGEND

2X2 SUSPENDED ACT CEILING SYSTEM

GYPSUM BOARD CEILING SYSTEM

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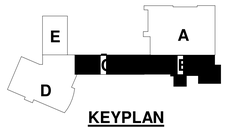

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SECOND FLOOR REFLECTED CEILING PLAN - AREAS B & C

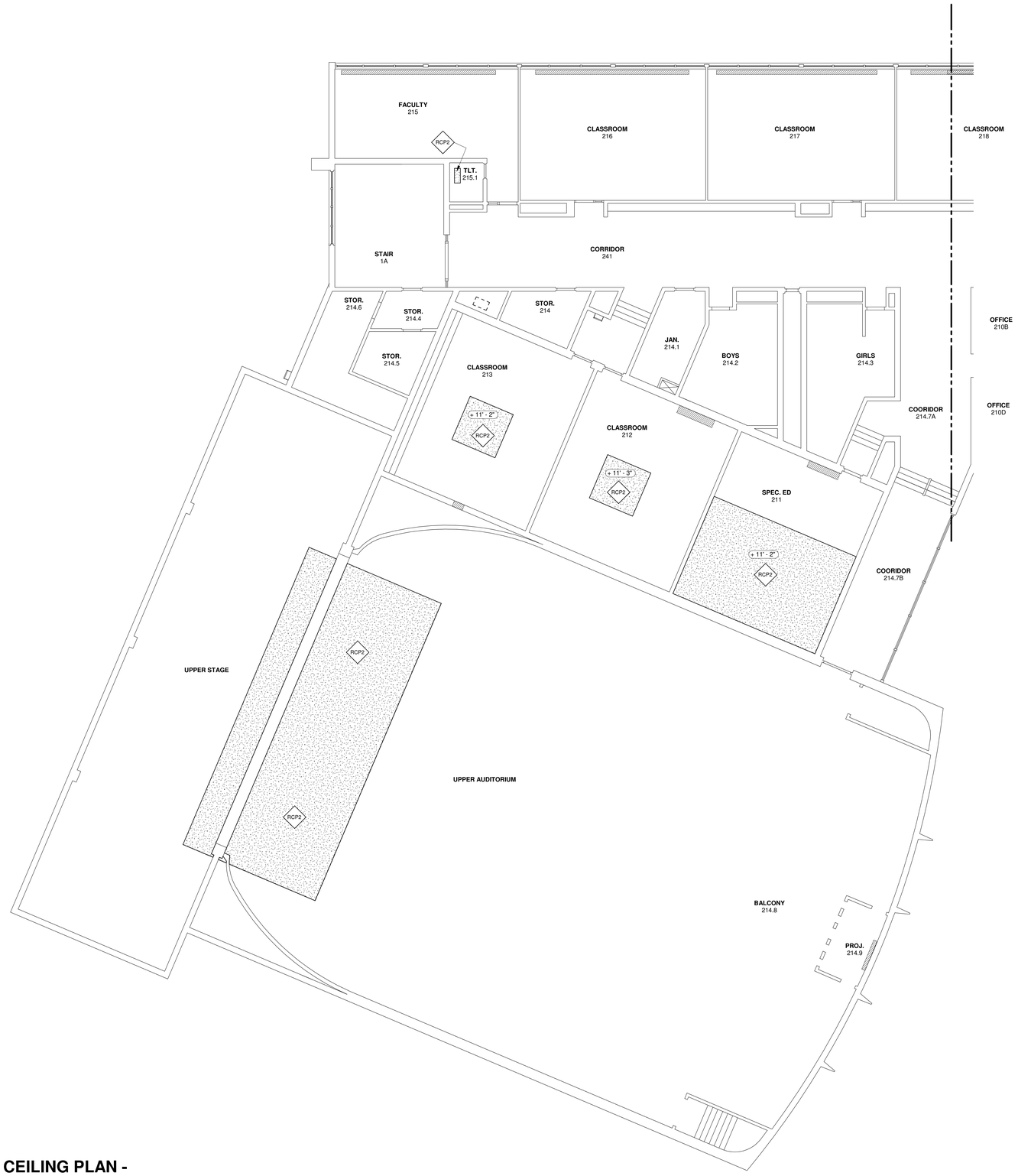
SCALE

Scale: As indicated

SHEET NUMBER

A2.02B

21011.30 28/01/2022 16:21:59 ESSER HVAC Improvements - Flinn Middle School



SECOND FLOOR REFLECTED CEILING PLAN - AREA D

1

1/8" = 1'-0"

NORTH

GENERAL NOTES

1. ALL ACCESS DOORS ON FIRST FLOOR LOCATED UNDERNEATH AN EXISTING CASE WORK, REMOVE CASEWORK , PATCH , PREP AND PAINT TO MATCH EXISTING ADJACENT SURFACE
2. FOR THE REMOVAL OF MECHANICAL DUCTWORK AND PIPING, REFER TO MECHANICAL DRAWINGS
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RCP1	INSTALL NEW GYPSUM BOARD CEILING TO MATCH EXISTING CEILING HEIGHT - UNLESS NOTED OTHERWISE. REINSTALL EXISTING GRILLES.
RCP2	PATCH, PREP, AND PAINT PLASTER CEILING. SCRAPE POPCORN CEILING IN ITS ENTIRETY TO A SMOOTH TEXTURE AND PAINT
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CEILING PLAN LEGEND

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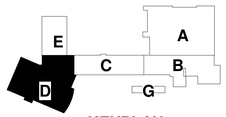

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Approved	Approver

SHEET TITLE

SECOND FLOOR REFLECTED CEILING PLAN - AREA D

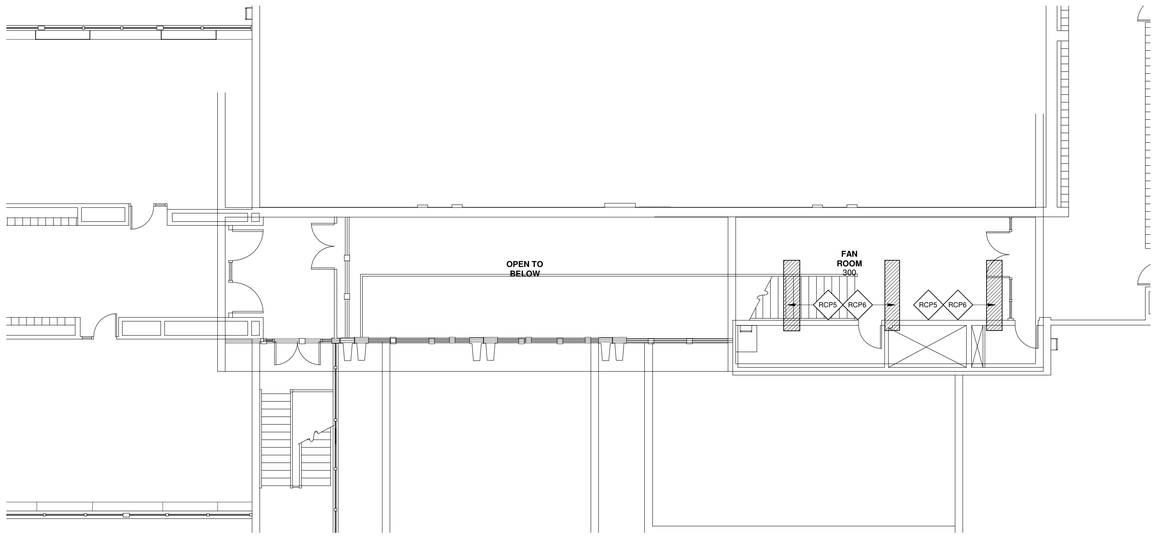
SCALE

Scale: As indicated

SHEET NUMBER

A2.02D

21011.30 28/01/2022 16:22:01 ESSER HVAC Improvements - Flinn Middle School



NORTH

1

THIRD FLOOR REFLECTED CEILING PLAN - AREA B - FAN ROOM

1/8" = 1'-0"

GENERAL NOTES

1. ALL ACCESS DOORS ON FIRST FLOOR LOCATED UNDERNEATH AN EXISTING CASE WORK, REMOVE CASEWORK , PATCH , PREP AND PAINT TO MATCH EXISTING ADJACENT SURFACE
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REFLECTED CEILING PLAN KEY NOTES

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CEILING PLAN LEGEND

2X2 SUSPENDED ACT CEILING SYSTEM

GYPSUM BOARD CEILING SYSTEM

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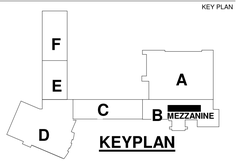

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Issue	BID DOCUMENTS
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SHEET TITLE

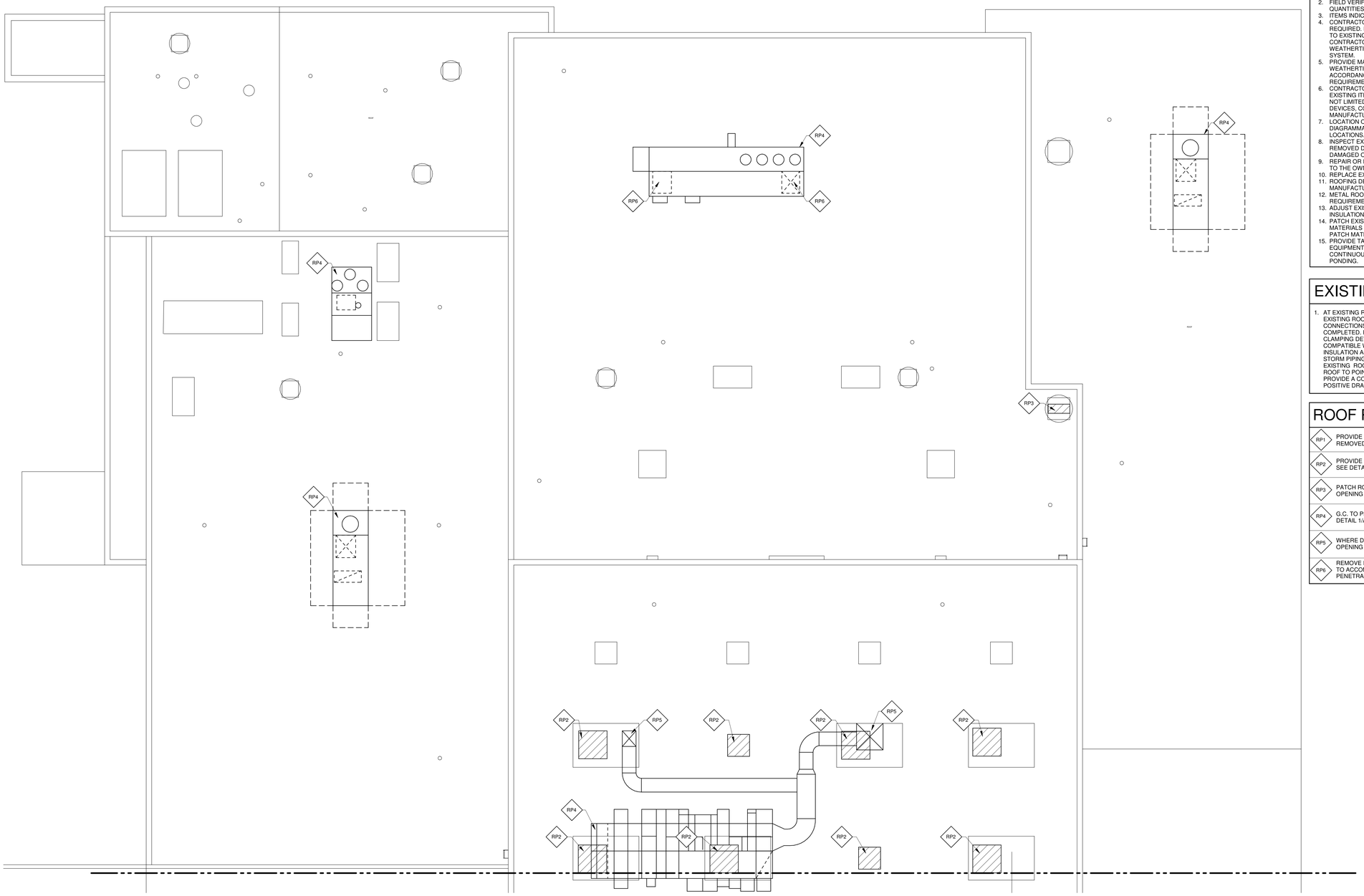
THIRD FLOOR REFLECTED CEILING PLAN - AREA B - FAN ROOM

SCALE

Scale: As indicated

SHEET NUMBER

A2.03B



1 **ROOF PLAN - AREA A**

1/8" = 1'-0"

NORTH

LEGEND

	DEMOLITION WORK
	NEW WORK

GENERAL NOTES

1. ALL ACCESS DOORS ON FIRST FLOOR LOCATED UNDERNEATH AN EXISTING CASE WORK, REMOVE CASEWORK , PATCH , PREP AND PAINT TO MATCH EXISTING ADJACENT SURFACE
2. FOR THE REMOVAL OF MECHANICAL DUCTWORK AND PIPING, REFER TO MECHANICAL DRAWINGS
3. GENERAL CONTRACTOR TO REMOVE EXISTING EXIT SIGNS , SURFACE MOUNTED CLOCKS, SECURITY CAMERAS, WALL MOUNTED EMERGENCY LIGHT PACK , WALL MOUNTED SPEAKERS , WALL MOUNTED ALARM BELL AND SALVAGE FOR REINSTALLATION AS REQUIRED TO ACCOMMODATE THE NEW WORK
4. THE EXTENT OF WALL AND FLOOR DEMOLITION IS SHOWN WHERE ANTICIPATED TO APPROXIMATE THE SCOPE OF WORK. THE INTENT IS TO ACCOMMODATE ALL MECHANICAL PIPING, DUCTWOR AND EQUIPMENT INSTALLATION. FINAL COORDINATION IS REQUIRED BETWEEN GENERAL CONTRACTOR AND MECHANICAL CONTRACTOR TO CONFIRM ON DRAWINGS AND AS REQUIRED BY THE MECHANICAL CONTRACTOR FOR THEIR INSTALLATION

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.
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.
15. PROVIDE TAPERED INSULATION CRICKETS AT HIGH SIDE OF ROOF MOUNTED EQUIPMENT, WHETHER SHOWN OR NOT, TO PROVIDE POSITIVE AND CONTINUOUS DRAINAGE AROUND EQUIPMENT TO DRAINS AND TO PREVENT PONDING.

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	PROVIDE A NEW INSULATED CURB CAP ON CURB WHERE FANS WERE REMOVED. SEE DETAIL 3/A3.02 FOR ADDITIONAL INFORMATION.
RP2	PROVIDE A NEW INSULATED CURB CAP ON EACH RELIEF VENT LOCATION. SEE DETAIL 3/A3.02 FOR ADDITIONAL INFORMATION.
RP3	PATCH ROOF OPENING WHERE FAN WAS REMOVED. INSULATE ROOF OPENING AND PATCH INTERIOR AS REQUIRED.
RP4	G.C. TO PROVIDE FLASHING AT EACH NEW INSULATED CURB CAP. SEE DETAIL 1/A3.02 FOR ADDITIONAL INFORMATION.
RP5	WHERE DUCTWORK PENETRATES THROUGH NEW CURB CAP, FLASH OPENING AS REQUIRED. SEE DETAIL 4/A3.02 FOR ADDITIONAL INFORMATION.
RP6	REMOVE PORTION OF EXISTING ROOFING SYSTEM AND ROOF STRUCTURE TO ACCOMODATE NEW WORK. PROVIDE FLASHING AROUND DUCTWORK PENETRATIONS THROUGH CURBS. SEE DETAIL 4/A3.02

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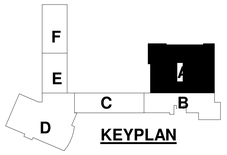

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Approved	**Approver**

SHEET TITLE

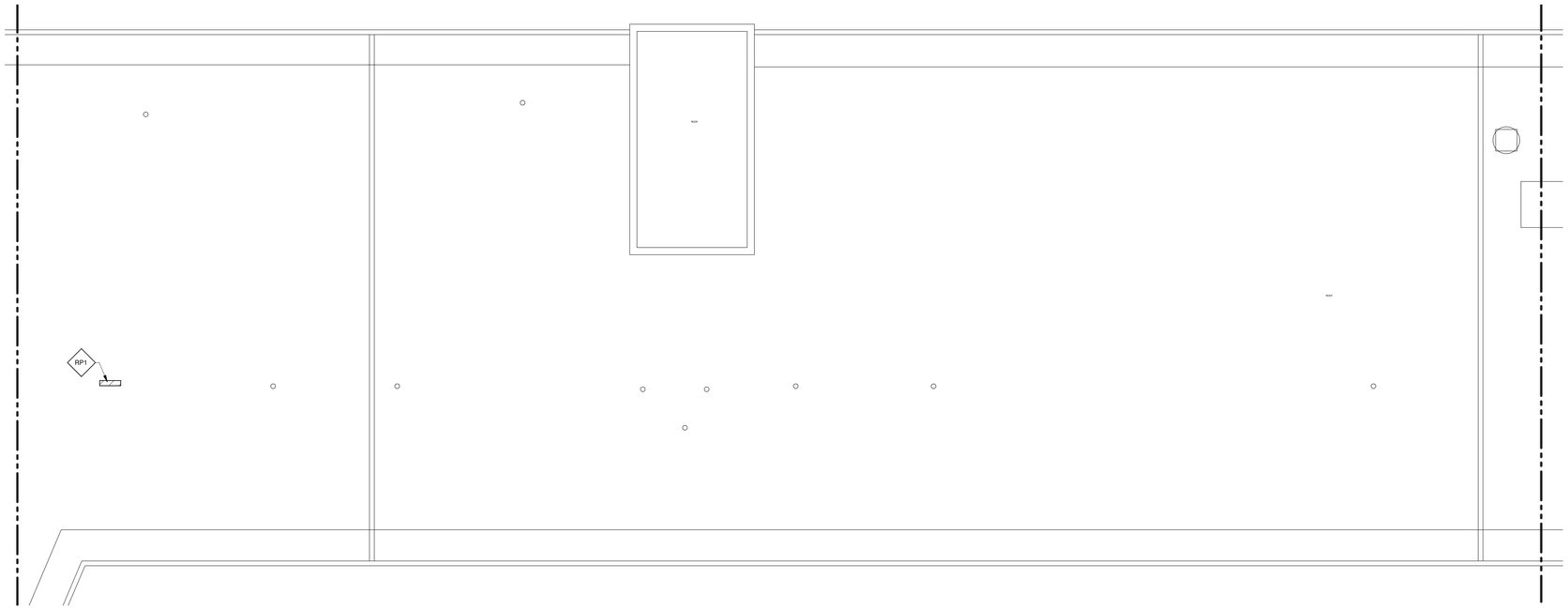
ROOF PLAN - AREA A

SCALE

Scale: **As indicated**

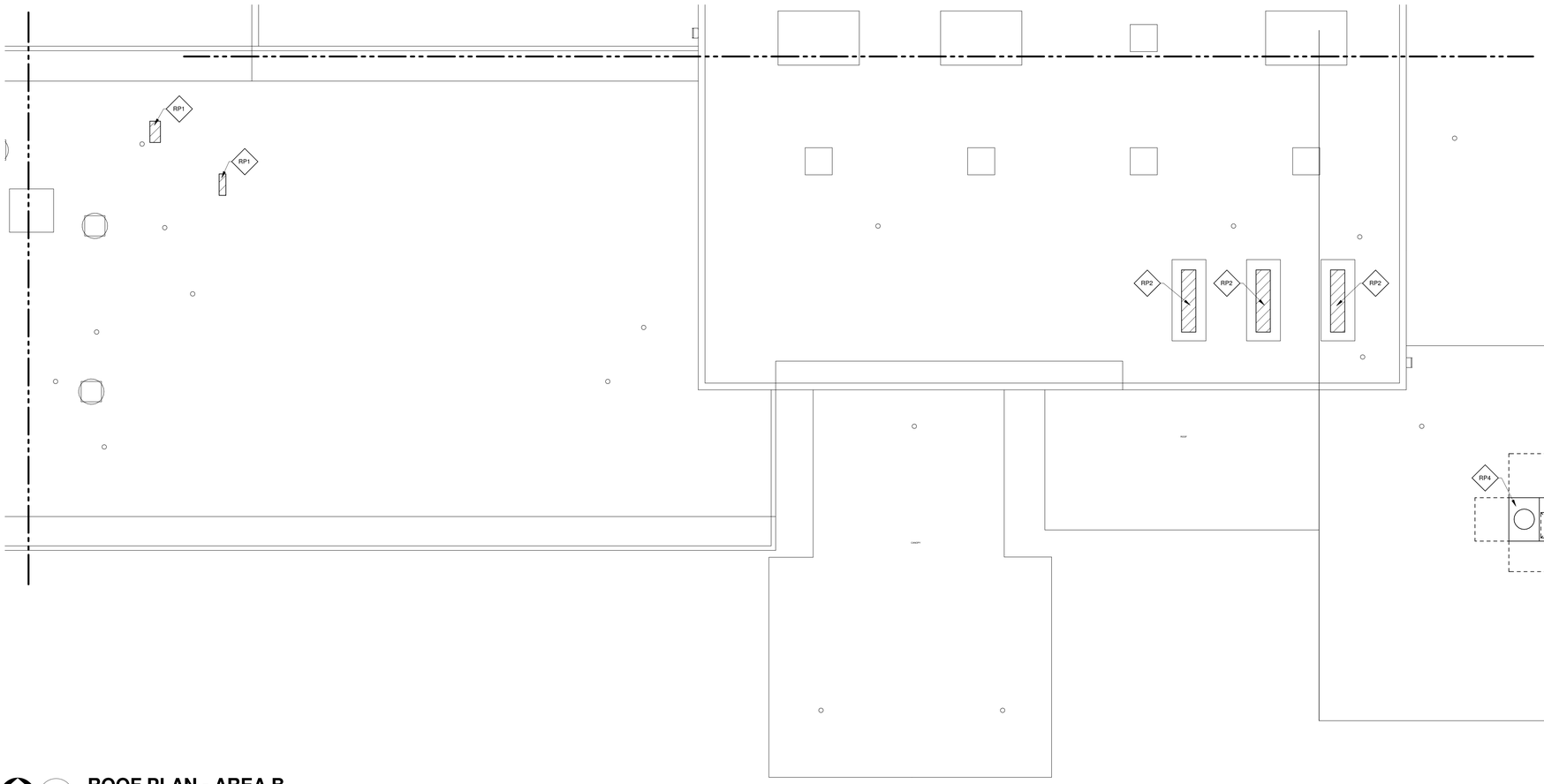
SHEET NUMBER

A3.00A



2 ROOF PLAN - AREA C

1/8" = 1'-0"



1 ROOF PLAN - AREA B

1/8" = 1'-0"

LEGEND

- DEMOLITION WORK
- NEW WORK

GENERAL NOTES

1. ALL ACCESS DOORS ON FIRST FLOOR LOCATED UNDERNEATH AN EXISTING CASE WORK, REMOVE CASEWORK , PATCH , PREP AND PAINT TO MATCH EXISTING ADJACENT SURFACE
2. FOR THE REMOVAL OF MECHANICAL DUCTWORK AND PIPING, REFER TO MECHANICAL DRAWINGS
3. GENERAL CONTRACTOR TO REMOVE EXISTING EXIT SIGNS , SURFACE MOUNTED CLOCKS, SECURITY CAMERAS, WALL MOUNTED EMERGENCY LIGHT PACK , WALL MOUNTED SPEAKERS , WALL MOUNTED ALARM BELL AND SALVAGE FOR REINSTALLATION AS REQUIRED TO ACCOMMODATE THE NEW WORK
4. THE EXTENT OF WALL AND FLOOR DEMOLITION IS SHOWN WHERE ANTICIPATED TO APPROXIMATE THE SCOPE OF WORK. THE INTENT IS TO ACCOMMODATE ALL MECHANICAL PIPING, DUCTWOR AND EQUIPMENT INSTALLATION. FINAL COORDINATION IS REQUIRED BETWEEN GENERAL CONTRACTOR AND MECHANICAL CONTRACTOR TO CONFIRM ON DRAWINGS AND AS REQUIRED BY THE MECHANICAL CONTRACTOR FOR THEIR INSTALLATION

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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.
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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.
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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.
15. PROVIDE TAPERED INSULATION CRICKETS AT HIGH SIDE OF ROOF MOUNTED EQUIPMENT, WHETHER SHOWN OR NOT, TO PROVIDE POSITIVE AND CONTINUOUS DRAINAGE AROUND EQUIPMENT TO DRAINS AND TO PREVENT PONDING.

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ROOF PLAN KEY NOTES

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RP2	PROVIDE A NEW INSULATED CURB CAP ON EACH RELIEF VENT LOCATION. SEE DETAIL 3/A3.02 FOR ADDITIONAL INFORMATION.
RP3	PATCH ROOF OPENING WHERE FAN WAS REMOVED. INSULATE ROOF OPENING AND PATCH INTERIOR AS REQUIRED.
RP4	G.C. TO PROVIDE FLASHING AT EACH NEW INSULATED CURB CAP. SEE DETAIL 1/A3.02 FOR ADDITIONAL INFORMATION.
RP5	WHERE DUCTWORK PENETRATES THROUGH NEW CURB CAP, FLASH OPENING AS REQUIRED. SEE DETAIL 4/A3.02 FOR ADDITIONAL INFORMATION.
RP6	REMOVE PORTION OF EXISTING ROOFING SYSTEM AND ROOF STRUCTURE TO ACCOMODATE NEW WORK. PROVIDE FLASHING AROUND DUCTWORK PENETRATIONS THROUGH CURBS. SEE DETAIL 4/A3.02

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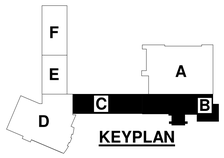

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SHEET INFORMATION

Issue	BID DOCUMENTS
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Job Number	21011.30
Drawn	CM / MI
Checked	MS
Approved	Approver

SHEET TITLE

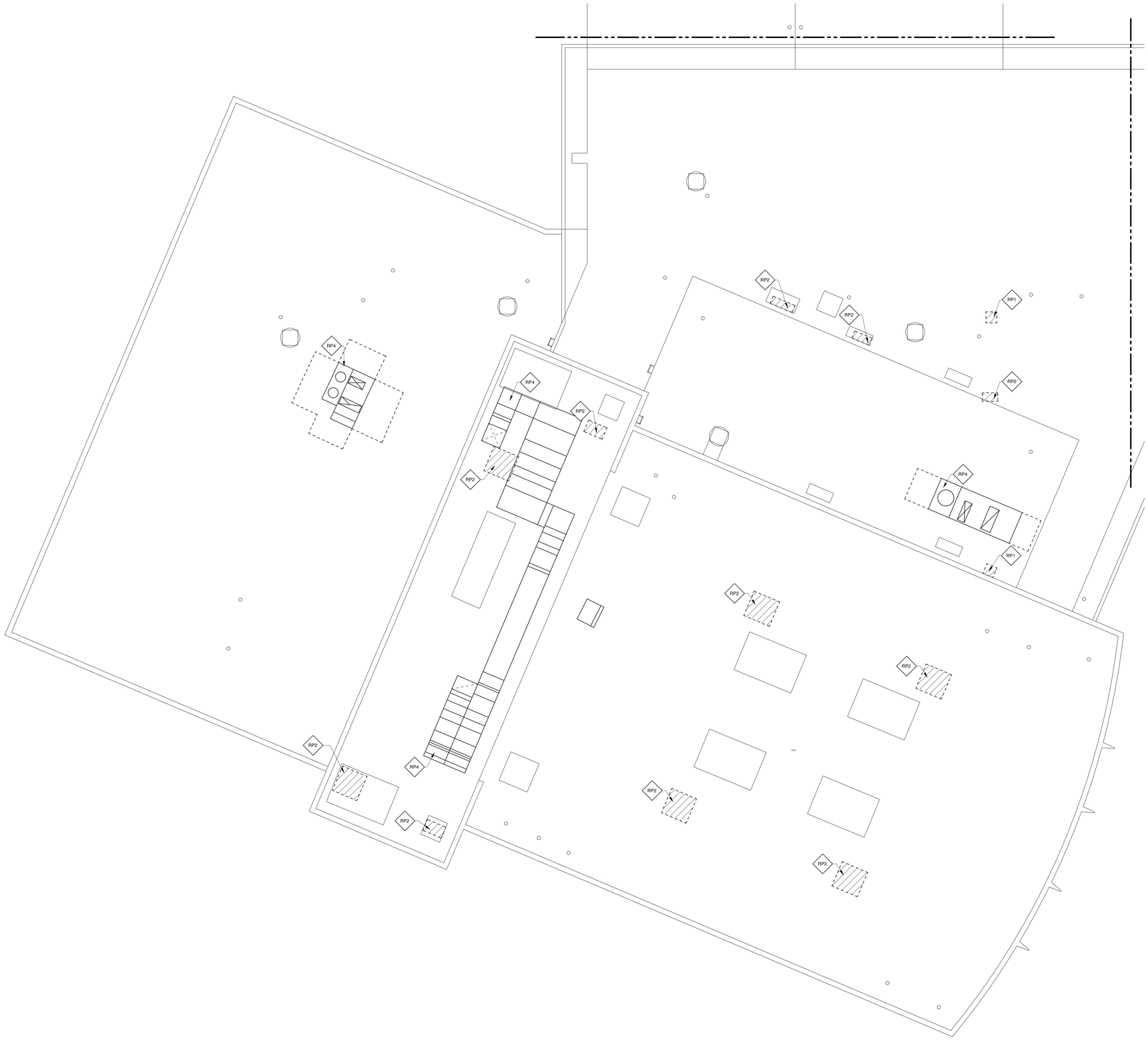
ROOF PLAN - AREAS B & C

SCALE

Scale: As indicated

SHEET NUMBER

A3.00B



ROOF PLAN - AREA D

1/8" = 1'-0"

NORTH

LEGEND

- DEMOLITION WORK
- NEW WORK

GENERAL NOTES

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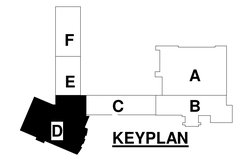

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Approved	Approver

SHEET TITLE

ROOF PLAN - AREA D

SCALE

Scale: As indicated

SHEET NUMBER

A3.00D

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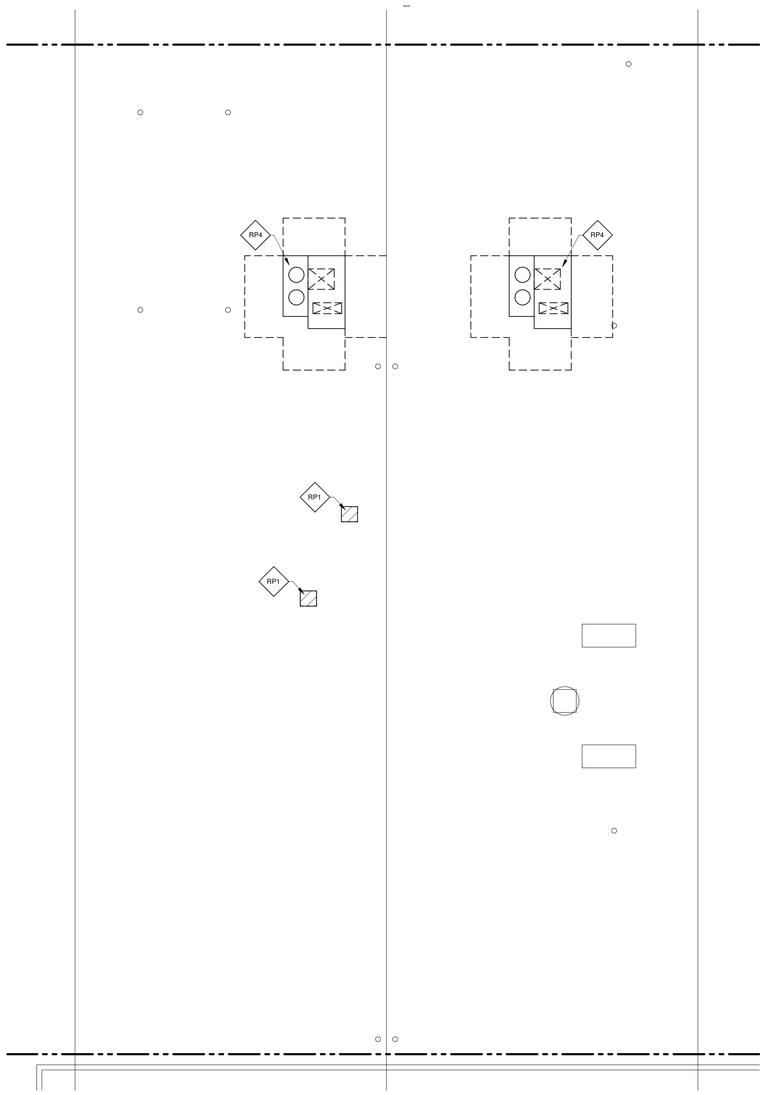
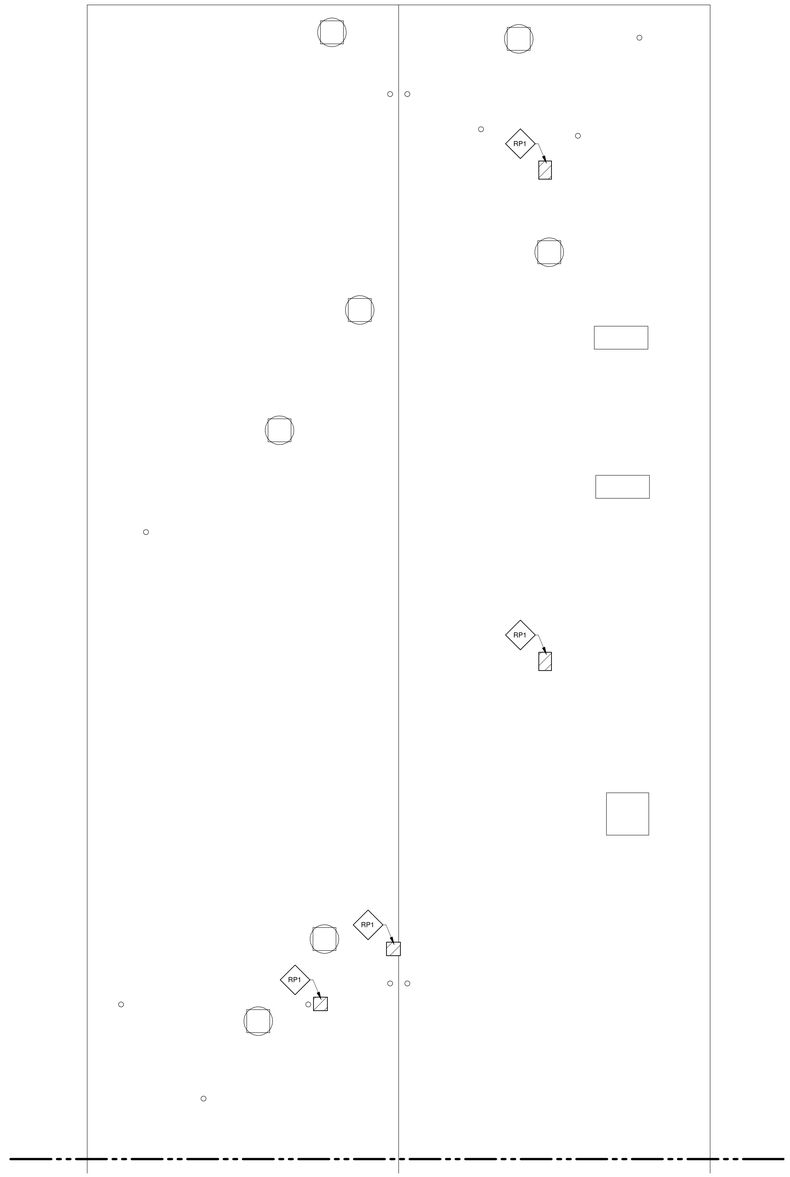


NORTH 1 **ROOF PLAN - AREA E**

1/8" = 1'-0"



NORTH 2 **ROOF PLAN - AREA F**

1/8" = 1'-0"

LEGEND

- DEMOLITION WORK
- NEW WORK

GENERAL NOTES

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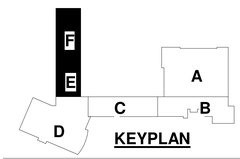

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ROOF PLAN - AREAS E & F

SCALE

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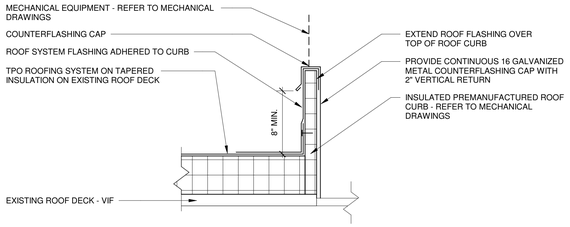
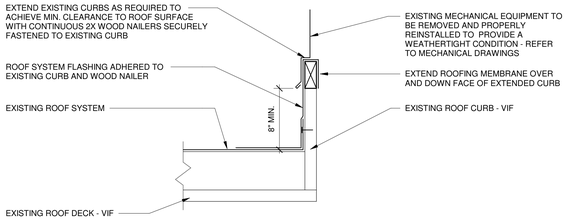


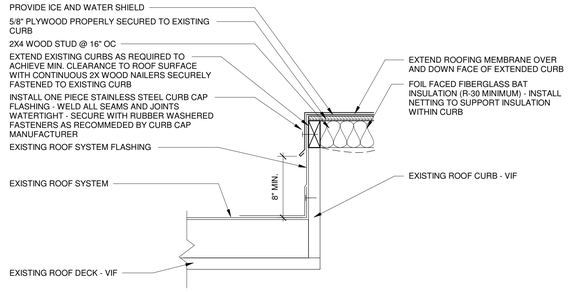
1 TYPICAL FLASHING DETAIL AT NEW CURB

1 1/2" = 1'-0"



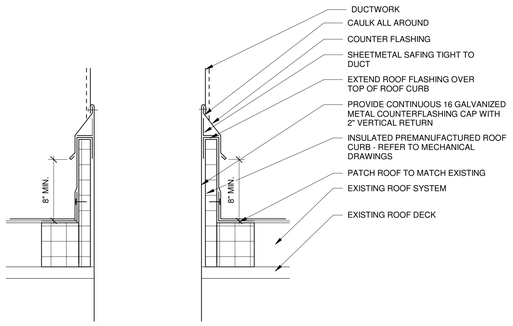
2 TYPICAL FLASHING DETAIL AT EXISTING CURB

1 1/2" = 1'-0"



3 TYPICAL INSULATED CURB CAP DETAIL

1 1/2" = 1'-0"



4 TYPICAL DETAIL AT DUCTWORK PENETRATION THROUGH CURB

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KEY PLAN

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REFERENCE SCALE IN INCHES
0 1 2

REVISIONS

No.	Date	Revision / Issue

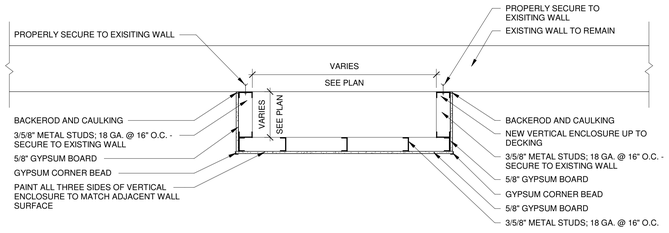
SHEET INFORMATION

Issue	BID DOCUMENTS
Date	JANUARY 28 , 2022
Job Number	21011.30
Drawn	CM / MI
Checked	MS
Approved	Approver

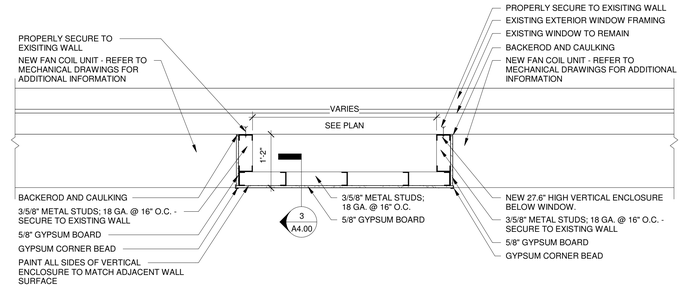
SHEET TITLE
ROOF DETAILS

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

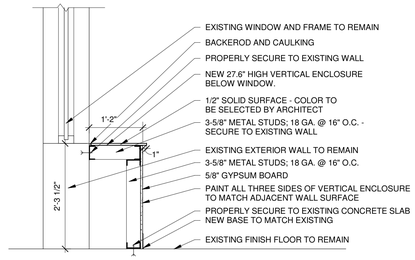
SHEET NUMBER
A3.02



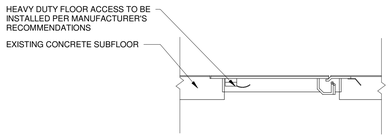
1 TYPICAL DETAIL AT VERTICAL ENCLOSURES
3/4" = 1'-0"



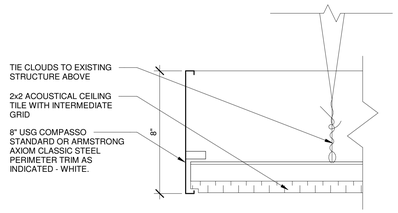
2 TYPICAL VERTICAL ENCLOSURE DETAIL BELOW WINDOWS
3/4" = 1'-0"



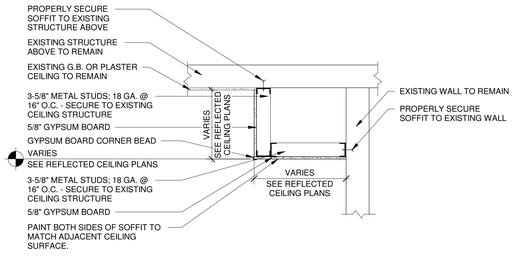
3 TYPICAL VERTICAL ENCLOSURE SECTION BELOW WINDOWS
3/4" = 1'-0"



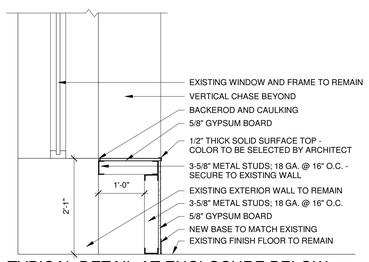
4 TYPICAL DETAIL AT ACCESS DOOR
3/4" = 1'-0"



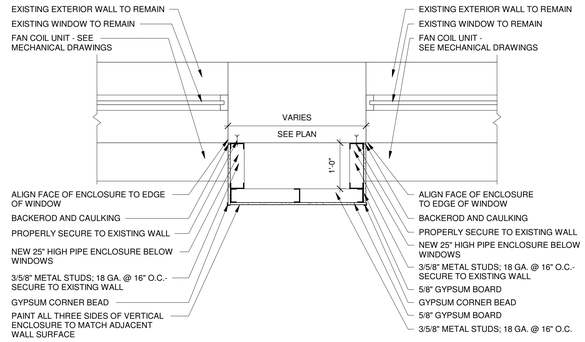
5 TYPICAL DETAIL AT CEILING CLOUD
3" = 1'-0"



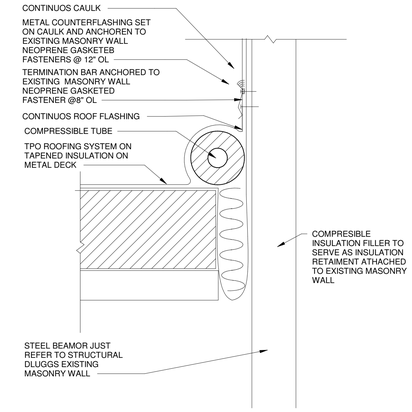
6 TYPICAL DETAIL AT GYPSUM BOARD SOFFIT
3/4" = 1'-0"



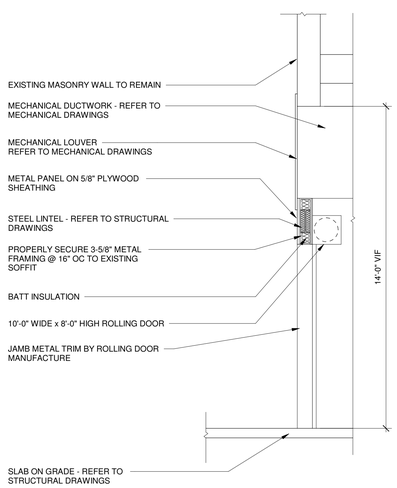
7 TYPICAL DETAIL AT ENCLOSURE BELOW WINDOW
3/4" = 1'-0"



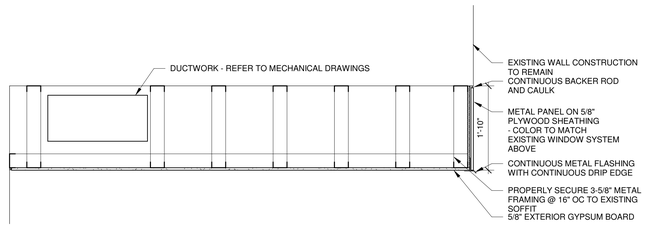
8 TYPICAL VERTICAL ENCLOSURE AT WINDOWS
3/4" = 1'-0"



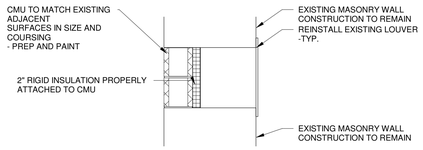
9 DETAIL ..
3/4" = 1'-0"



10 Flashing
3/8" = 1'-0"



11 SOFFIT DETAIL
3/4" = 1'-0"



12 EXTERIOR WALL PATCHING DETAIL
3/4" = 1'-0"

21011.30 28/01/2022 16:22:09 ESSER HVAC Improvements - Flinn Middle School

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ROCKFORD PUBLIC SCHOOLS

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Rockford Public Schools #205

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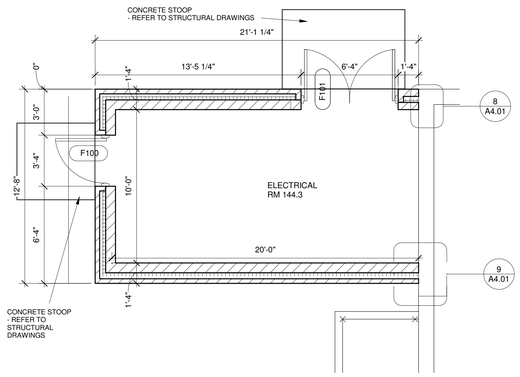
Approved	**Approver**

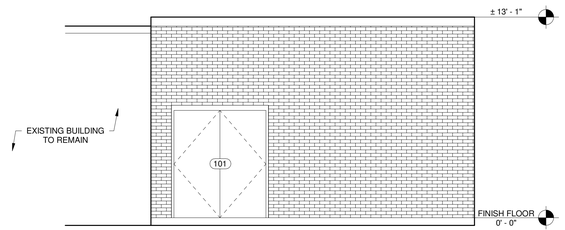
SHEET TITLE
DETAILS

SCALE
Scale: **As indicated**

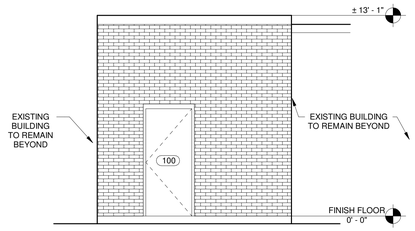
SHEET NUMBER
A4.00



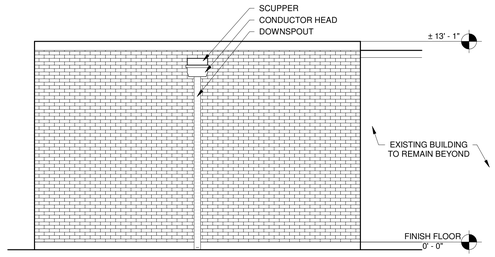
1 ENLARGED ELECTRICAL ROOM FLOOR PLAN
1/4" = 1'-0"



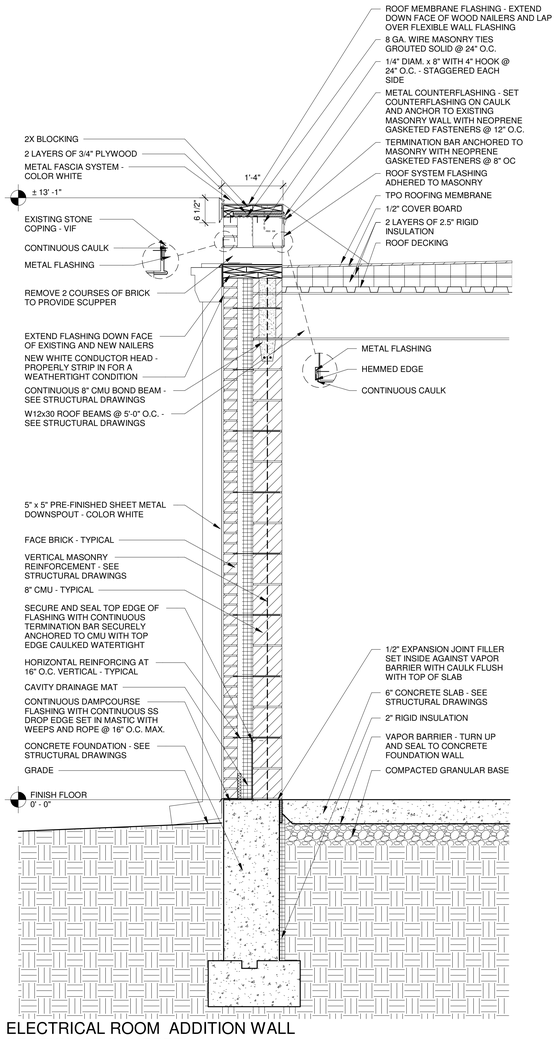
2 ADDITION - NORTH ELEVATION
1/4" = 1'-0"



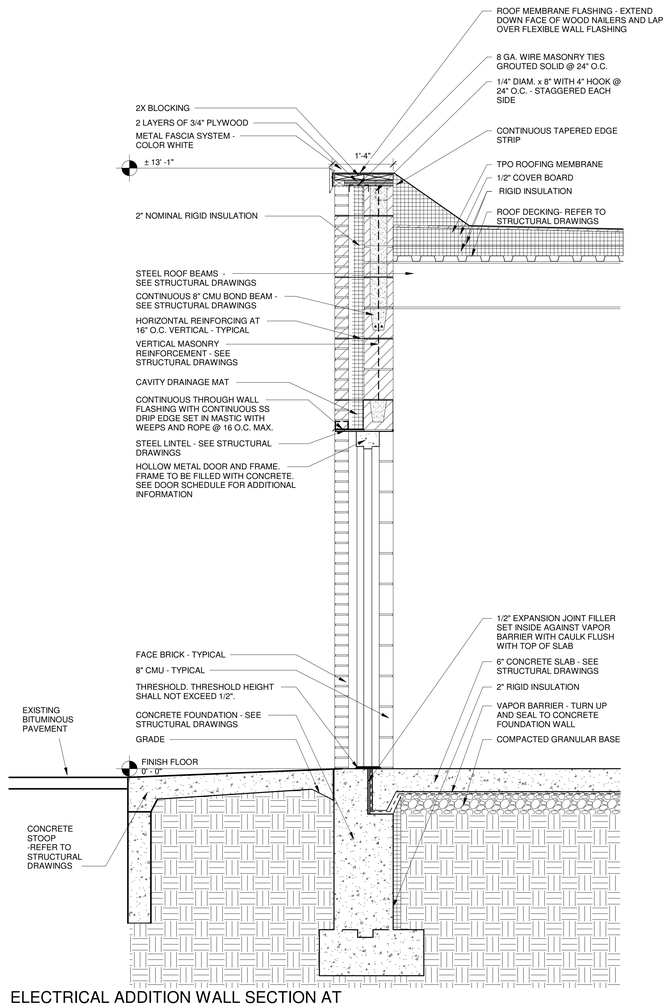
3 WEST ELEVATION
1/4" = 1'-0"



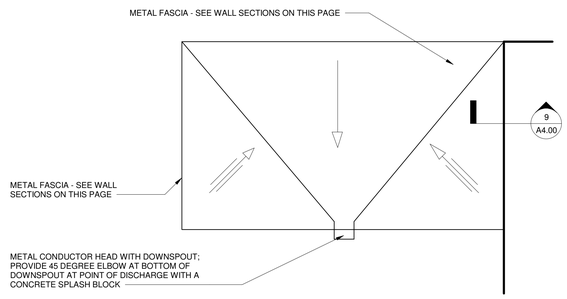
4 SOUTH ELEVATION
1/4" = 1'-0"



5 ELECTRICAL ROOM ADDITION WALL SECTION AT SCUPPER
3/4" = 1'-0"



6 ELECTRICAL ADDITION WALL SECTION AT DOOR
3/4" = 1'-0"



7 ENLARGED ELECTRICAL ROOM ROOF PLAN
1/4" = 1'-0"

ANSI SPRI ES-1 DESIGN CRITERIA:

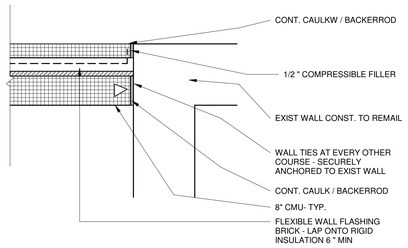
DESIGN PRESSURE HORIZONTAL (OUTWARD PRESSURE):
PERIMETER = 22 PSF
CORNER = 28 PSF

DESIGN PRESSURE VERTICAL:
PERIMETER = 39 PSF
CORNER = 58 PSF

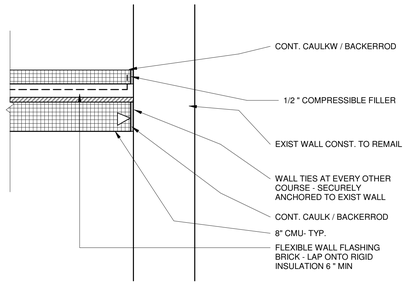
ROOF LEGEND

TAPERED INSULATION SLOPE

TAPERED INSULATION CRICKETS



8 DETAIL
3/4" = 1'-0"



9 DETAIL.
3/4" = 1'-0"

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Checked	**MS**
Approved	**Approver**

SHEET TITLE

STORAGE ADDITION PLANS, ELEVATIONS, SECTIONS, AND DETAILS

SCALE

Scale: **As indicated**

SHEET NUMBER

A4.01

21011.30 28/01/2022 16:22:09 ESSER HVAC Improvements - Flinn Middle School