

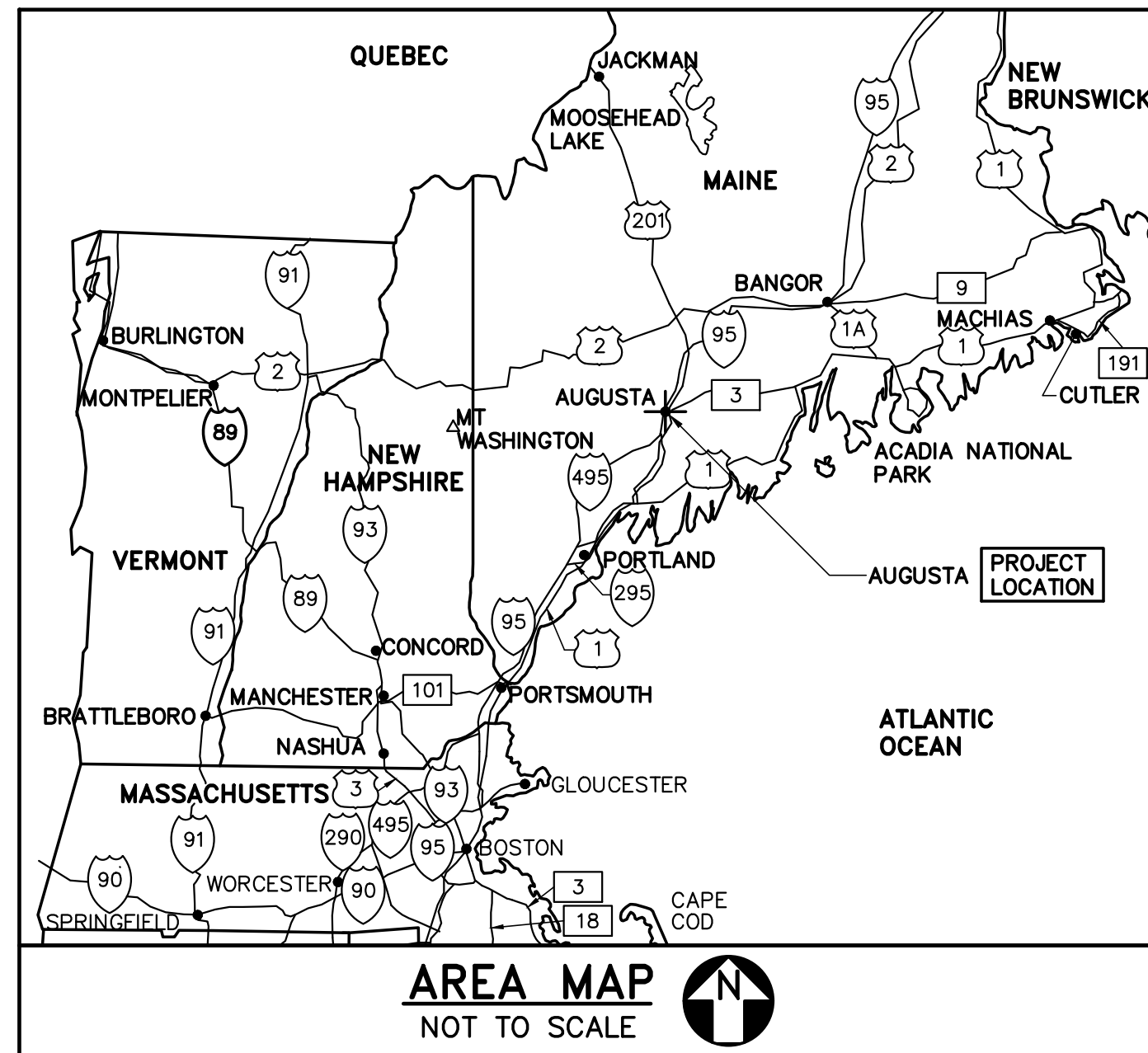
MAINE STATE POLICE CRIME LAB, HVAC UPGRADES AUGUSTA, MAINE

GENERAL CONSTRUCTION NOTES

1. THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS PRIOR TO COMMENCING WORK. REPORT ANY DISCREPANCIES TO THE ARCHITECT PRIOR TO COMMENCING WORK.
2. ALL WORK INCLUDED IN THIS CONTRACT SHALL CONFORM TO ALL STATE, NATIONAL AND OTHER CODES AND ORDINANCES WHICH ARE APPLICABLE TO THIS PROJECT.
3. WORK FROM GIVEN DIMENSIONS AND LARGE SCALE DETAILS ONLY. DO NOT SCALE DRAWINGS.
4. ROOM NUMBERS ON PLANS ARE FOR REFERENCE ONLY AND DO NOT CORRESPOND TO ACTUAL ROOM NUMBERS.
5. THE LOCATION OF ALL DOOR OPENINGS NOT DIMENSIONED SHALL BE 6" FROM ADJACENT WALL (FACE OF FRAMING TO ROUGH OPENING).
6. INSTALL BLOCKING BEHIND ALL SURFACE APPLIED FIXTURES, TRIM, SHELVES, WOOD TRIM AND OTHER ACCESSORIES WHEN MOUNTED ON STUD WALLS.
7. ALL ROOM DIMENSIONS ARE FROM FACE OF FRAMING TO FACE OF FRAMING OR FROM FACE OF CONCRETE. DIMENSIONS INDICATED AS "CLEAR" SHALL BE MAINTAINED IN CASE OF DISCREPANCY.
8. BEFORE PENETRATING JOISTS, BEAMS OR OTHER STRUCTURAL MEMBERS, CONSULT WITH THE ARCHITECT FOR APPROVAL.
9. AT THE END OF EACH WORKING DAY, THE CONSTRUCTION SITE SHALL BE LEFT IN A NEAT, CLEAN AND SAFE CONDITION.
10. THE CONTRACTOR SHALL DISPOSE OF AND/OR RECYCLE ANY CONSTRUCTION DEBRIS FROM THE PROJECT AS REQUIRED BY THE STATE OF MAINE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING DISPOSAL PERMITS WHICH ARE REQUIRED. CONSTRUCTION DEBRIS FROM THE PROJECT SHALL BE DISPOSED OF IN A STATE APPROVED LANDFILL.
11. ALL WORK SHALL BE PROVIDED IN COMPLIANCE WITH THAT INDUSTRY'S STANDARDS AND PERFORMED IN A WORKMANLIKE PROFESSIONAL MANNER.
12. CONTRACTOR IS RESPONSIBLE TO MAINTAIN SPACE TEMPERATURE, HUMIDITY AND NEGATIVE PRESSURE REQUIREMENTS THROUGHOUT THE LAB SPACES. PROVIDE TEMPORARY HVAC SUBMITTAL FOR APPROVAL BASED ON SUBMITTED CONSTRUCTION SCHEDULE.

LIST OF DRAWINGS

SHEET NUMBER	NUMBER OF SHEETS	SHEET NAMES
G-001	1 OF 15	TITLE, LIST OF DRAWINGS, MAPS, AND GENERAL CONSTRUCTION NOTES
G-002	2 OF 15	SEQUENCING PLANS AND NOTES
AD701	3 OF 15	FIRST AND SECOND FLOOR REMOVALS REFLECTED CEILING PLANS
AE120	4 OF 15	ROOF PLAN
AE701	5 OF 15	FIRST AND SECOND FLOOR REFLECTED CEILING PLANS
M-001	6 OF 15	MECHANICAL LEGENDS, DETAILS AND SCHEDULES
MD101	7 OF 15	FIRST AND SECOND FLOOR MECHANICAL REMOVALS PART PLANS
MD102	8 OF 15	ROOF MECHANICAL REMOVALS PART PLANS
MH101	9 OF 15	FIRST FLOOR MECHANICAL DUCTWORK PLAN
MH102	10 OF 15	SECOND FLOOR MECHANICAL PIPING PLAN
MH103	11 OF 15	ROOF MECHANICAL PLAN
MP101	12 OF 15	FIRST FLOOR MECHANICAL PIPING AND CONTROLS PLAN
MP102	13 OF 15	SECOND FLOOR MECHANICAL PIPING AND CONTROLS PLAN
E-001	14 OF 15	ELECTRICAL SYMBOLS, ABBREVIATIONS, AND GENERAL NOTES
ED101	15 OF 15	ELECTRICAL REMOVALS PLANS
E-101	16 OF 15	ELECTRICAL PLANS



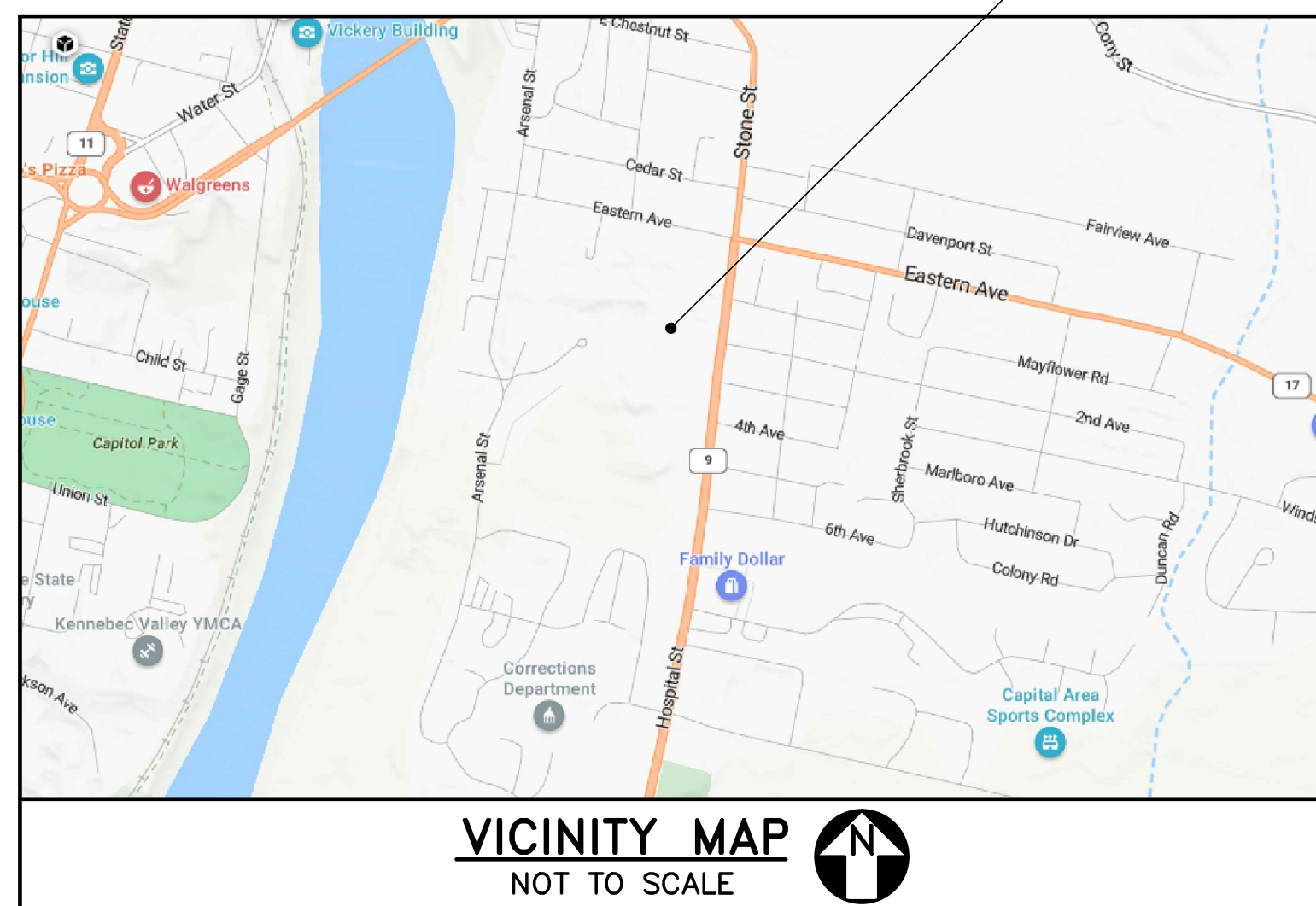
PROJECT LOCATION:
MAINE STATE POLICE
CRIME LAB

ABBREVIATIONS

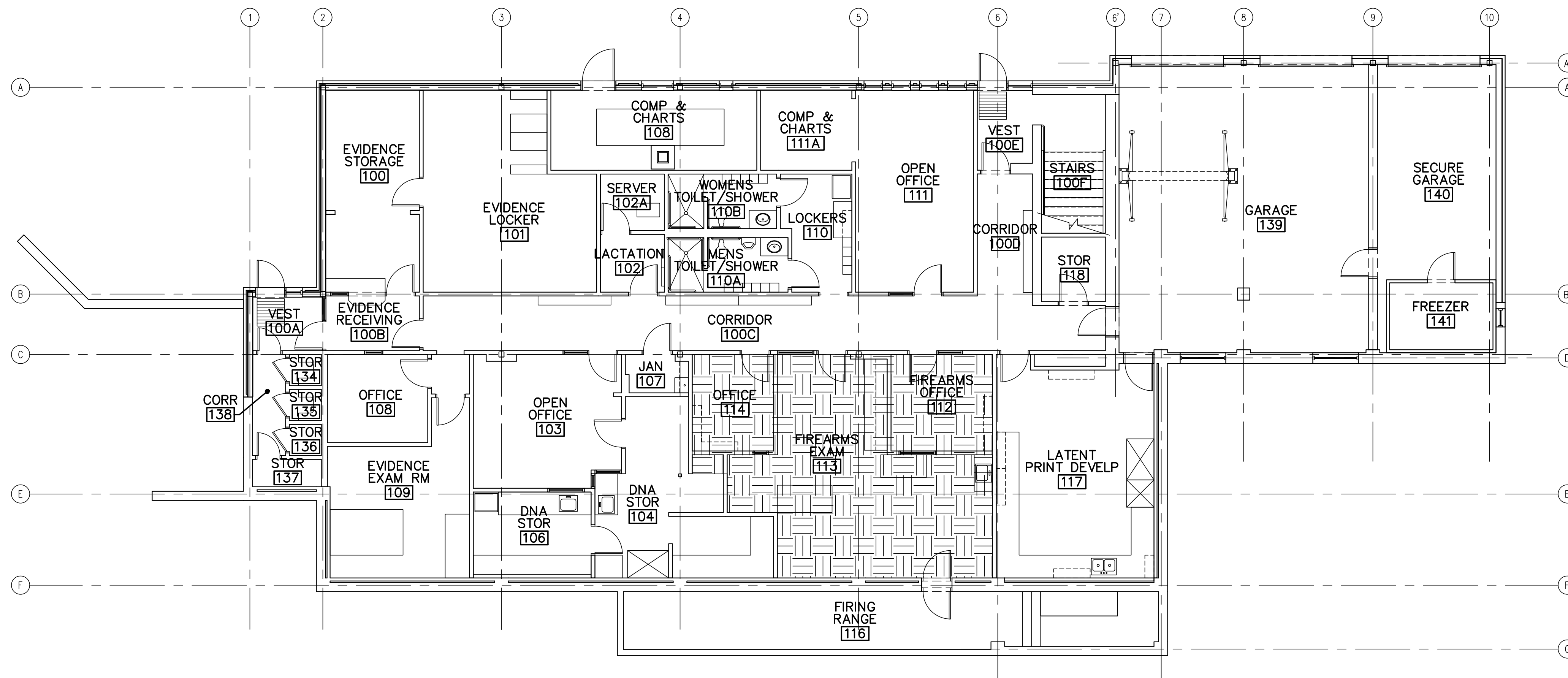
±	PLUS/MINUS	MIN	MINIMUM
&	AND	MIR	MIRROR
AT	AT	N	NORTH
BD	BOARD	NIC	NOT IN CONTRACT
BL	BORROWED LITE	NO, #	NUMBER
CL	CENTERLINE	NTS	NOT TO SCALE
CLG	CEILING	OC	ON CENTER
CPT	CARPET	PL LAM, PLAM	PLASTIC LAMINATE
CT	CERAMIC TILE	PLYWD	PLYWOOD
DIA Ø	DIAMETER	PNT	PAINT
DWG	DRAWING	RCP	REFLECTED CEILING PLAN
ELEV	ELEVATION	RM	ROOM
EXIST	EXISTING	SAT	SUSPENDED
GYP BD	GYPSON BOARD	SCH	SCHEDULE
HM	HOLLOW METAL	SIM	SIMILAR
LT	LIGHT	TYP	TYPICAL
MAX	MAXIMUM	UL	UNDERWRITERS LABORATORY
MDF	MEDIUM DENSITY FIBER BOARD	W/	WITH
MFR	MANUFACTURER	WD	WOOD
MFRS	MANUFACTURER'S		

LEGEND

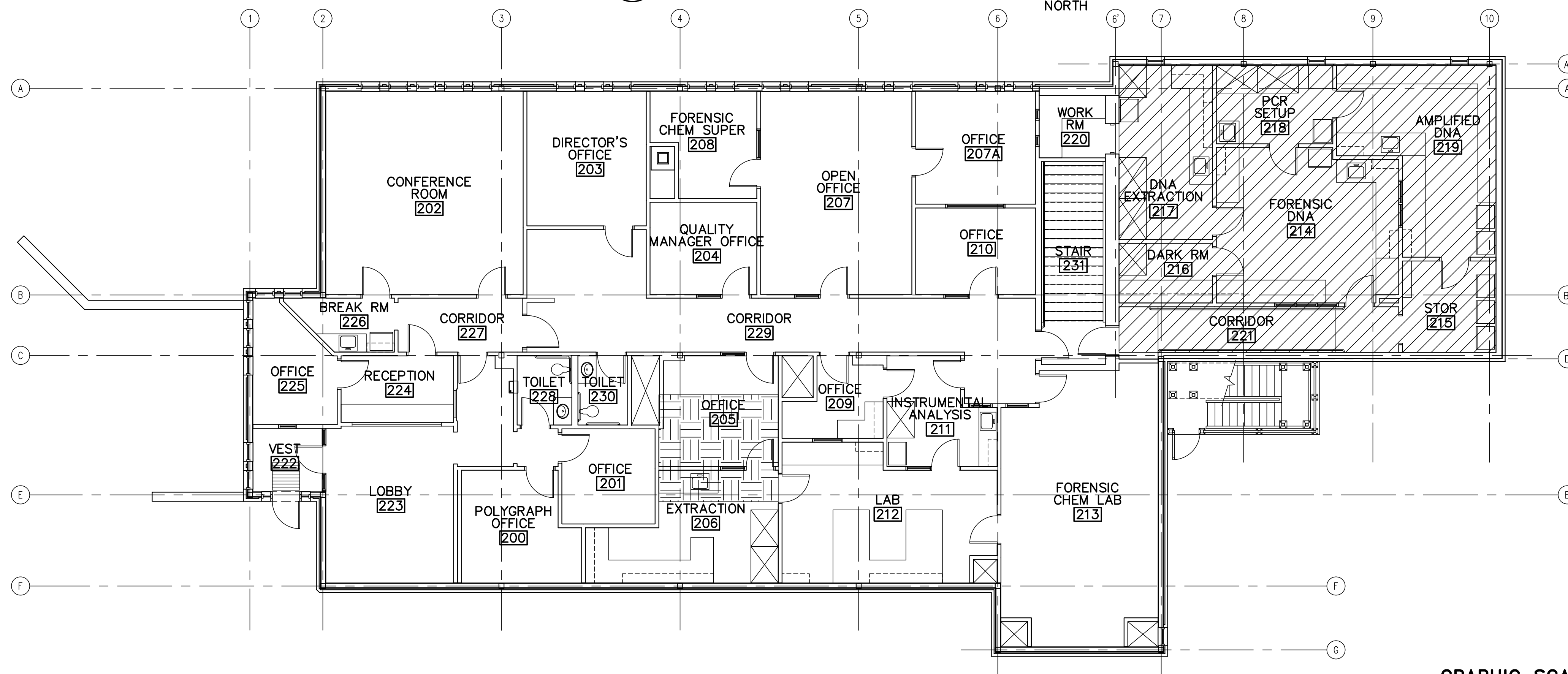
	DETAIL NUMBER SHEET WHERE DETAIL IS DRAWN SHEETS WHERE DETAIL IS TAKEN		CLASSROOM ROOM NAME AND NUMBER
	NORTH		DOOR NUMBER
	INDICATES DIRECTION OF CUTTING PLANE WALL SECTION OR ELEVATION NUMBER SHEET WHERE WALL SECTION OR ELEVATION IS DRAWN SHEETS WHERE WALL SECTION OR ELEVATION IS TAKEN		WALL TYPE
	INTERIOR ELEVATION SHEET WHERE INTERIOR ELEVATION IS DRAWN		DETAIL NUMBER SHEET WHERE DETAIL IS DRAWN
	KEY NOTE		REMOVE OR DEMO ITEM
	PROVIDE OR INSTALL ITEM		EXISTING ITEM



STATE OF MAINE		
BGS		
TITLE: MAINE STATE POLICE CRIME LAB, HVAC UPGRADES		
LOCATION: AUGUSTA, MAINE BGS PROJECT #: PT3376		
TITLE THIS DRAWING: COVER SHEET		
DRAWN BY: RDA		
CHECK BY: AJK		
DATE: 03/01/24		
NO. DATE DESCRIPTION BY		
REVISIONS		G-001 SHEET NO. 1 OF 16
DATE: 03/01/24		



1 FIRST FLOOR SEQUENCING PLAN
 G002 SCALE: 1/8"=1'-0" PLAN NORTH



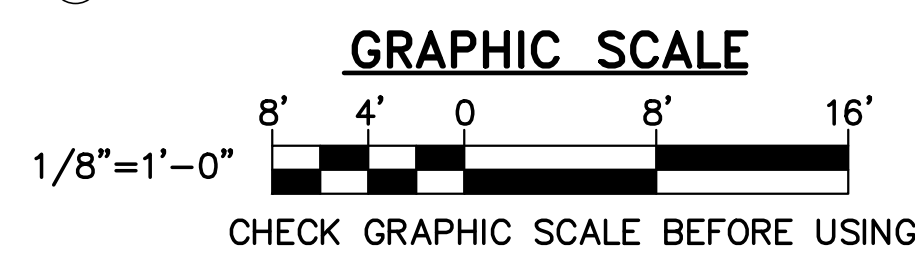
2 SECOND FLOOR SEQUENCING PLAN
 G002 SCALE: 1/8"=1'-0" PLAN NORTH

GENERAL SEQUENCING NOTES

1. THE FOLLOWING IS AN OVERVIEW OF THE WORK DESCRIBED WITHIN THE CONSTRUCTION DOCUMENTS AND IS A PROPOSED CONSTRUCTION SEQUENCE STRATEGY WHICH HAS BEEN COORDINATED WITH THE BGS. DEVELOPMENT OF A FINAL CONSTRUCTION SEQUENCE AND SCHEDULE IS THE RESPONSIBILITY OF THE CONTRACTOR WITH APPROVAL BY THE CONTRACTING OFFICER.
2. THE BUILDING WILL CONTINUE TO OPERATE AND BE OCCUPIED DURING THE CONSTRUCTION PERIOD. COORDINATE FIRE/LIFE SAFETY REQUIREMENTS, SECURITY REQUIREMENTS, UTILITY SHUTDOWNS, TEMPORARY CLOSURES AND REROUTING OF UTILITIES WITH THE CONTRACTING OFFICER FIFTEEN (15) DAYS PRIOR TO THE START OF EACH PHASE OF WORK AND AS SPECIFIED..
3. COORDINATE PROGRAM IMPLEMENTATION AND CONSTRUCTION SEQUENCE STRATEGY WITH THE GOVERNMENT.
4. REFER TO SHEET G-001 FOR GENERAL PROJECT NOTES.
5. COORDINATE OCCURRENCE, TIME, AND DURATION REQUIRED FOR MOVEMENT OF INDUSTRIAL EQUIPMENT WITH THE GOVERNMENT.
6. COORDINATE OCCURRENCE, TIME, AND DURATION OF INTERRUPTIONS TO ROADWAYS, LAY DOWN AREAS, AND OTHER SITE ELEMENTS WITH THE GOVERNMENT. OBTAIN PERMISSION FROM CONTRACTING OFFICER PRIOR TO INTERRUPTIONS OF SITE ELEMENTS.
7. COORDINATE MATERIAL AND VEHICLE MOVEMENT AROUND THE PROJECT SITE AND ON AND OFF THE SITE.
8. PROTECT EXISTING OCCUPIED SPACES, FINISHES, FURNITURE SYSTEMS AND EQUIPMENT FROM DUST, CONSTRUCTION DEBRIS, AND WEATHER DURING CONSTRUCTION. DAMAGE RESULTING FROM THE CONTRACTORS OPERATIONS MUST BE REPAIRED OR REPLACED AS APPROVED BY THE CONTRACTING OFFICER BY THE CONTRACTOR AT NO ADDITIONAL COST TO BGS.
9. CONTRACTOR IS RESPONSIBLE FOR AND REQUIRED TO PROVIDE AND SUBMIT PHASING PLANS ILLUSTRATING THE TIMING, SCHEDULE, AND IMPLEMENTATION OF THE WORK TO THE CONTRACTING OFFICER FOR REVIEW PRIOR TO ANY CONSTRUCTION ACTIVITY. THIS PLAN SHALL BE UPDATED AND RESUBMITTED IF THERE ARE ANY SCHEDULE CHANGES. THIS FACILITY SHALL NOT BE SHUT DOWN.

SEQUENCING LEGEND AND NOTES

- PHASE 1**
 PHASE 1, SECOND FLOOR DNA LAB. LAB MUST REMAIN OPERATIONAL DURING CONSTRUCTION. WORK TO BE DONE OFF HOURS, AFTER 5 PM MONDAY TO FRIDAY AND WEEKENDS ONLY. COORDINATE WORK TIMES WITH CONTRACTING OFFICER. PHASE 1 WORK INCLUDES TESTING, ADJUSTING AND BALANCING HVAC SYSTEMS SERVING THIS AREA.
- PHASE 2**
 PHASE 2, FIRST FLOOR LABS. LAB MUST REMAIN OPERATIONAL DURING CONSTRUCTION. WORK TO BE DONE OFF HOURS, AFTER 5 PM MONDAY TO FRIDAY AND WEEKENDS ONLY. COORDINATE WORK TIMES WITH CONTRACTING OFFICER.
- PHASE 3**
 PHASE 3, ENTIRE MAIN BUILDING MINUS DNA LAB. TEST AND BALANCE IN ACCORDANCE WITH DRAWINGS AND SPECIFICATIONS SECTION 230593 TESTING, ADJUSTING AND BALANCING FOR HVAC.



		STATE OF MAINE	
		BGS	
TITLE MAINE STATE POLICE CRIME LAB, HVAC UPGRADES LOCATION: AUGUSTA, MAINE BGS PROJECT # PT3376		DRAWING NO. G-002 SHEET NO. 2 OF 16	
DRAWN BY: SXL CHECK BY: AJK		DATE: 03/01/24	
REVISIONS			

GENERAL NOTES

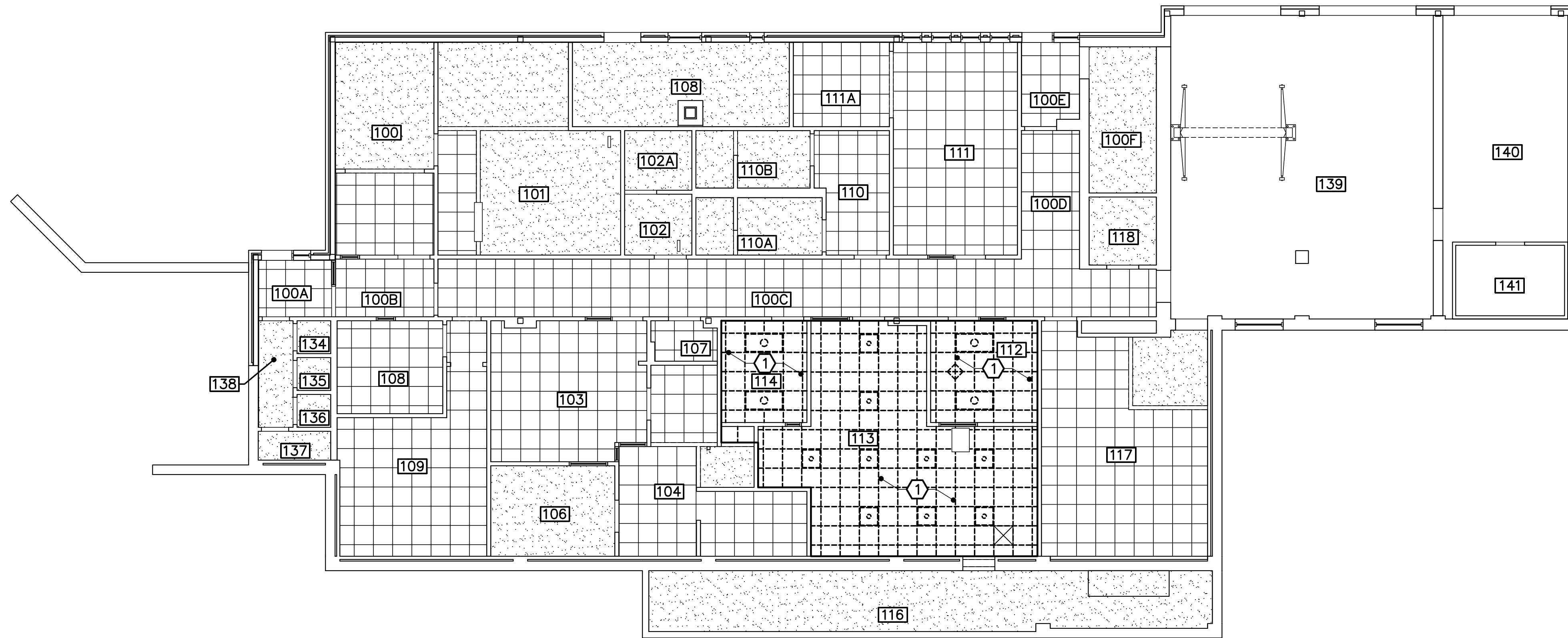
- COORDINATE REMOVALS WITH MECHANICAL AND ELECTRICAL SHEETS.

REMOVAL KEYNOTES

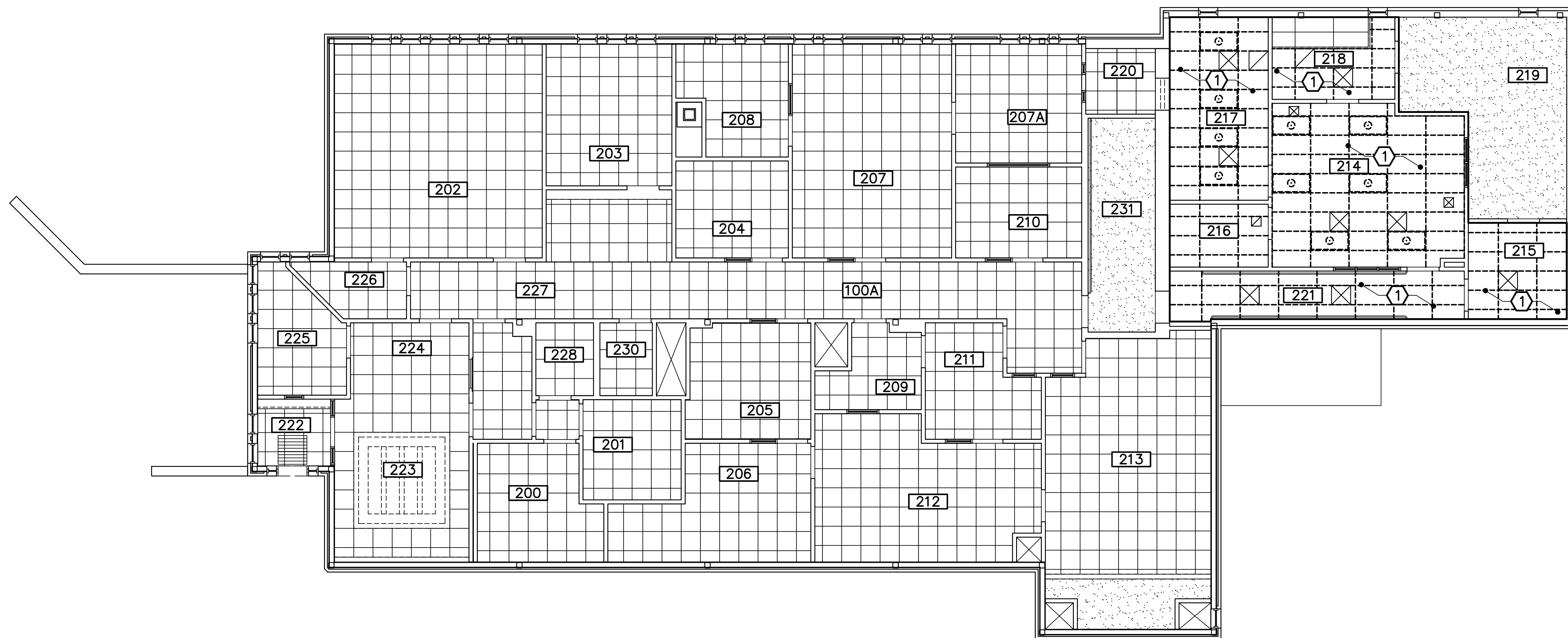
- REMOVE AND STORE ACOUSTICAL CEILING PANELS AND GRID AS REQUIRED FOR MECHANICAL DUCTWORK REMOVALS AND INSTALLATIONS.

CEILING REMOVALS LEGEND:

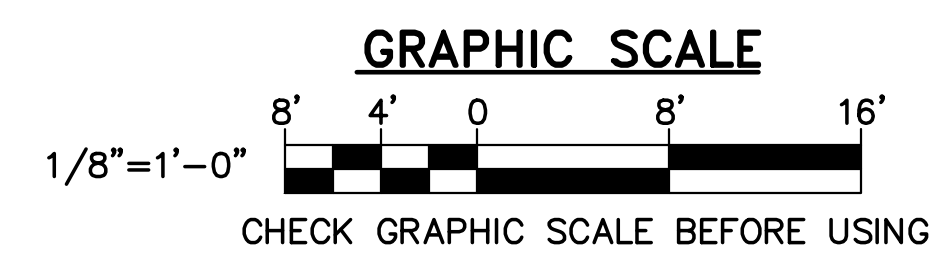
- EXISTING (TO REMAIN)
- - - EXISTING TO BE REMOVED
- ⊙ 2'x2' LED LIGHT FIXTURES
- ⊞ 2'x4' LED LIGHT FIXTURES
- ⊗ EXIT SIGN
- ▒ GYP BD
- ⊞ SUSPENDED ACOUSTICAL 2'-0" x 2'-0" CEILING SYSTEM
- ⊞ SUSPENDED ACOUSTICAL 2'-0" x 4'-0" CEILING SYSTEM
- ⊗ SUPPLY DIFFUSER
- ⊞ RETURN DIFFUSER



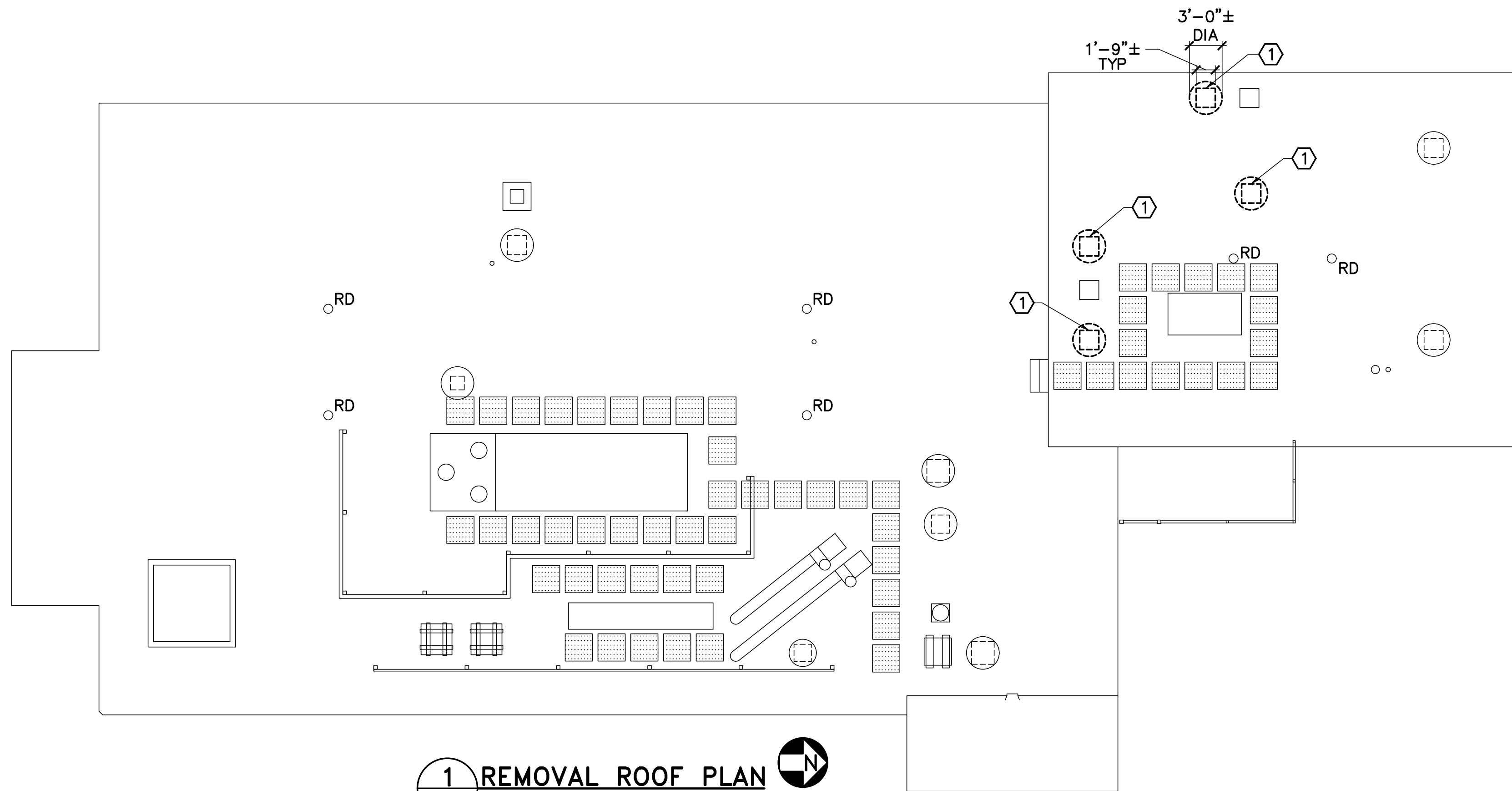
1 FIRST FLOOR REMOVALS REFLECTED CEILING PLAN
 AD701 SCALE: 1/8"=1'-0" PLAN NORTH



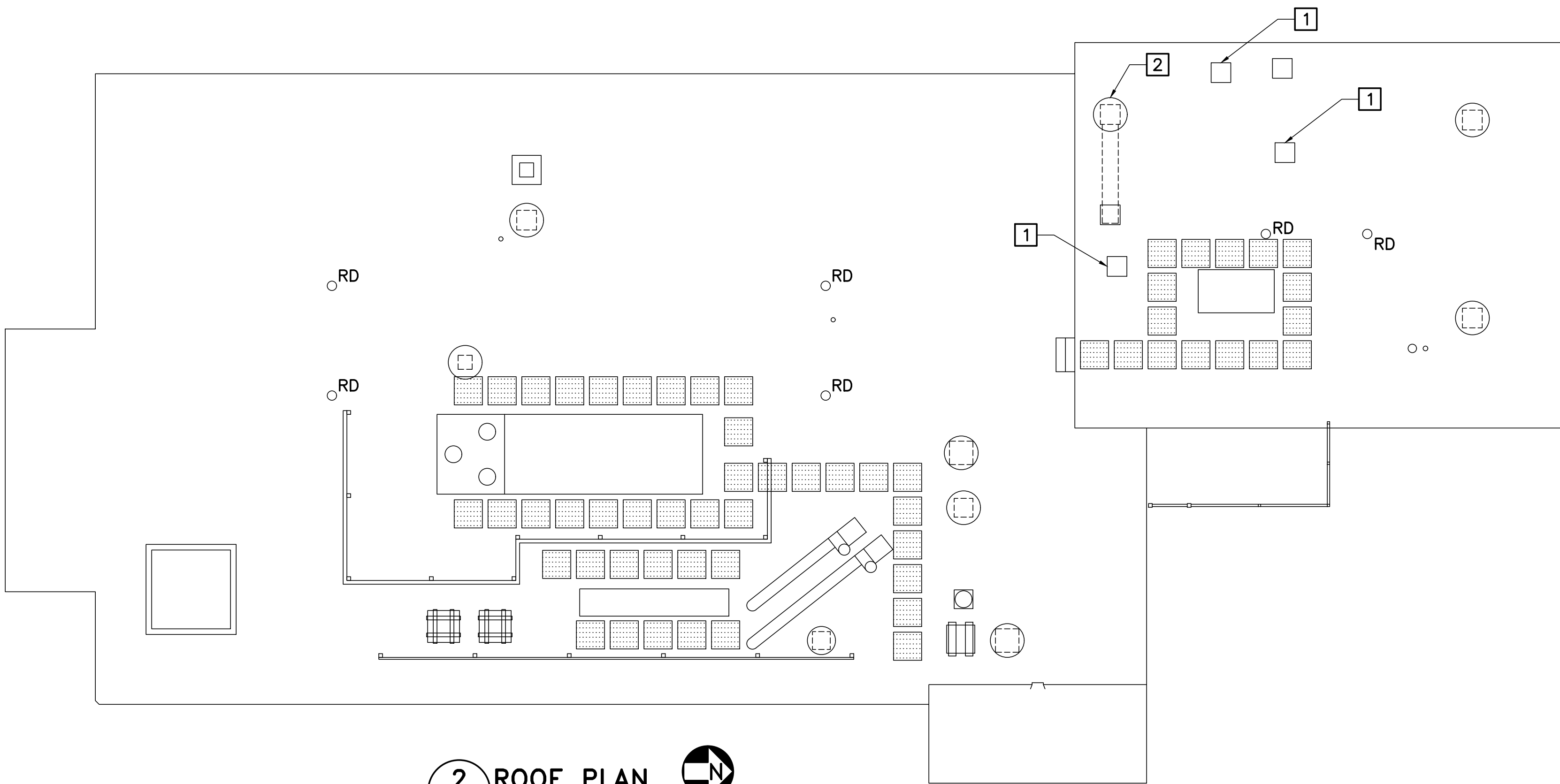
2 SECOND FLOOR REMOVALS REFLECTED CEILING PLAN
 AD701 SCALE: 1/8"=1'-0" PLAN NORTH



			STATE OF MAINE BGS	
			TITLE: MAINE STATE POLICE CRIME LAB, HVAC UPGRADES LOCATION: AUGUSTA, MAINE BGS PROJECT #: PT3376	
DRAWN BY: CRR CHECK BY: JMC			TITLE THIS DWG: FIRST AND SECOND FLOOR REMOVALS REFLECTED CEILING PLANS	
			DRAWING NO. AD701 SHEET NO. 3 OF 16	
DATE: 03/01/24			231 Main Street, Biddeford, Maine 04005	



1 REMOVAL ROOF PLAN
 AE120 SCALE: 1/8"=1'-0"
 PLAN NORTH



2 ROOF PLAN
 AE120 SCALE: 1/8"=1'-0"
 PLAN NORTH

GENERAL NOTES

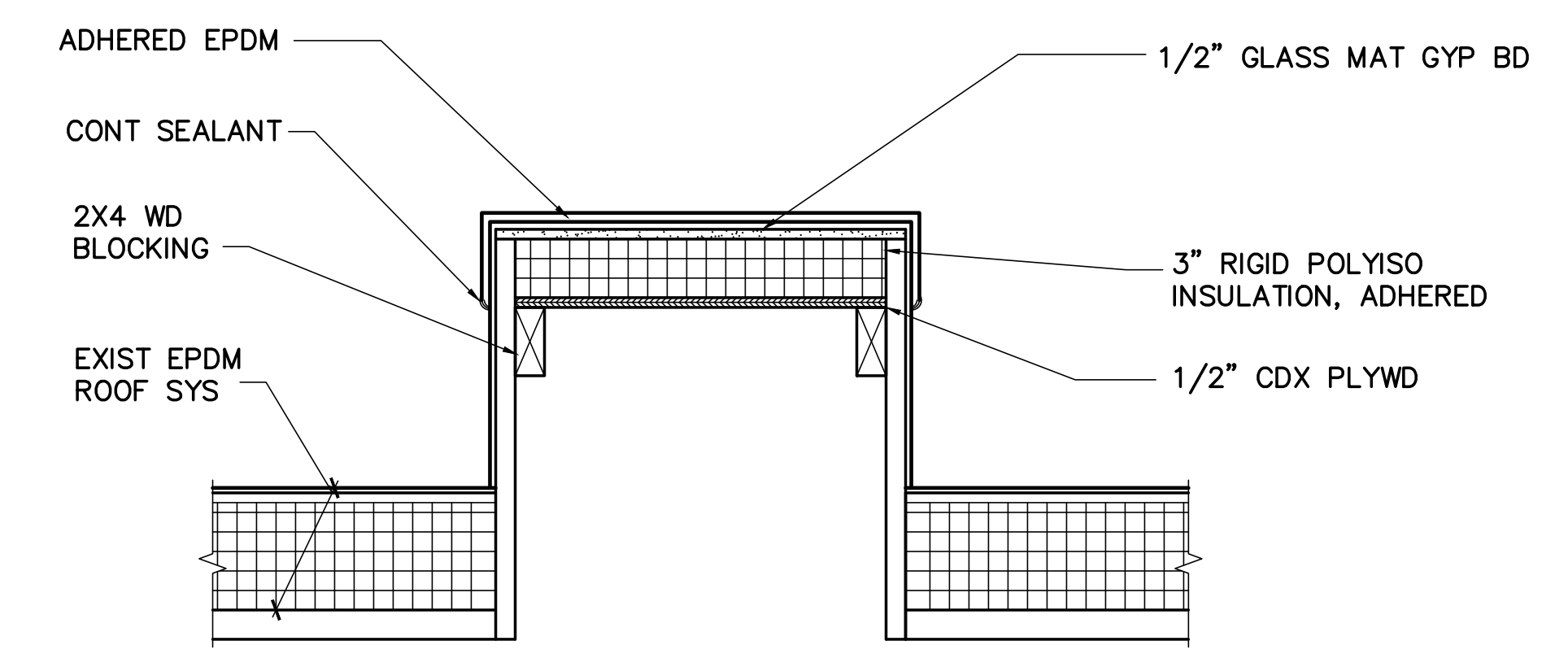
- COORDINATE WORK WITH MECHANICAL DRAWINGS.

REMOVAL KEYNOTES

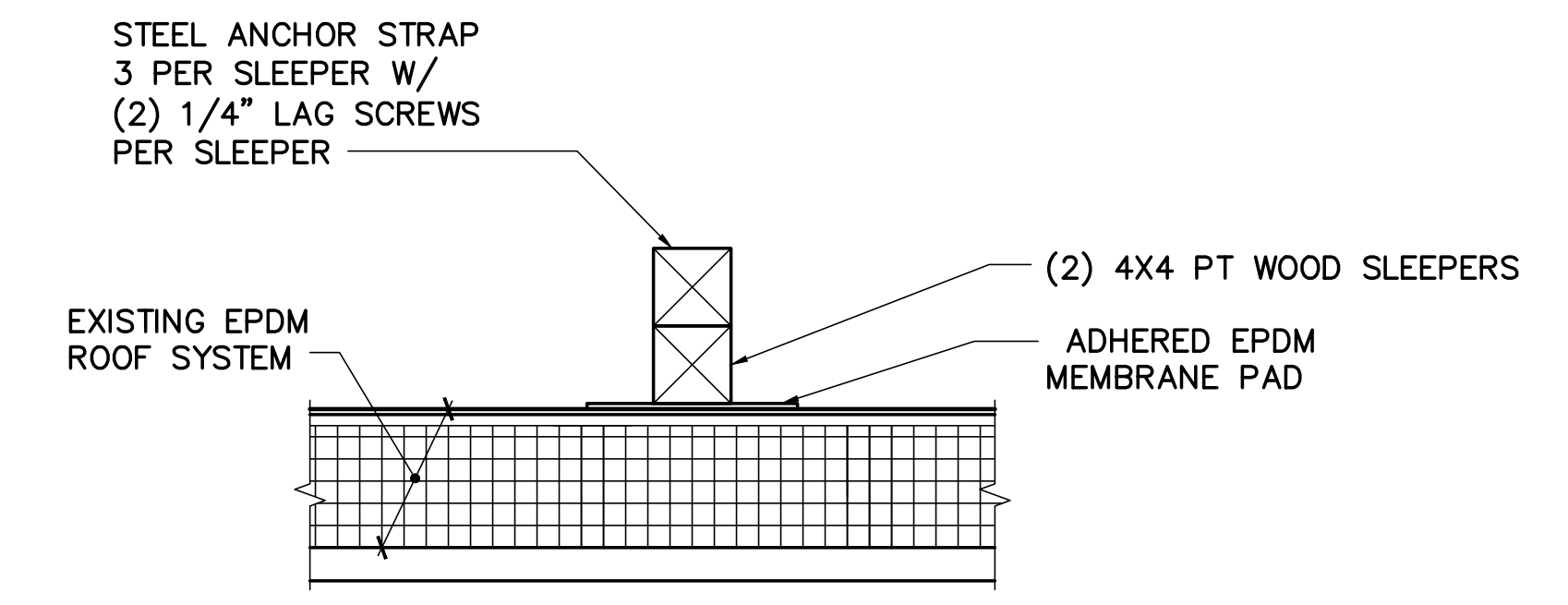
- REMOVE EXISTING FAN. ROOF CURB TO REMAIN.

KEYNOTES

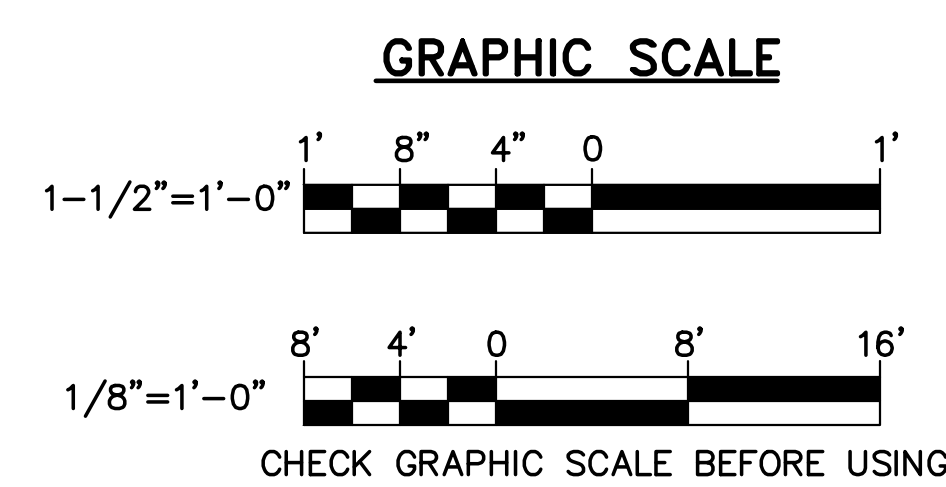
- PROVIDE ROOF INSULATED ROOF CURB CAP. SEE DETAIL 3/AE120.
- PROVIDE PT WOOD SLEEPERS. SEE DETAIL 4/AE120.



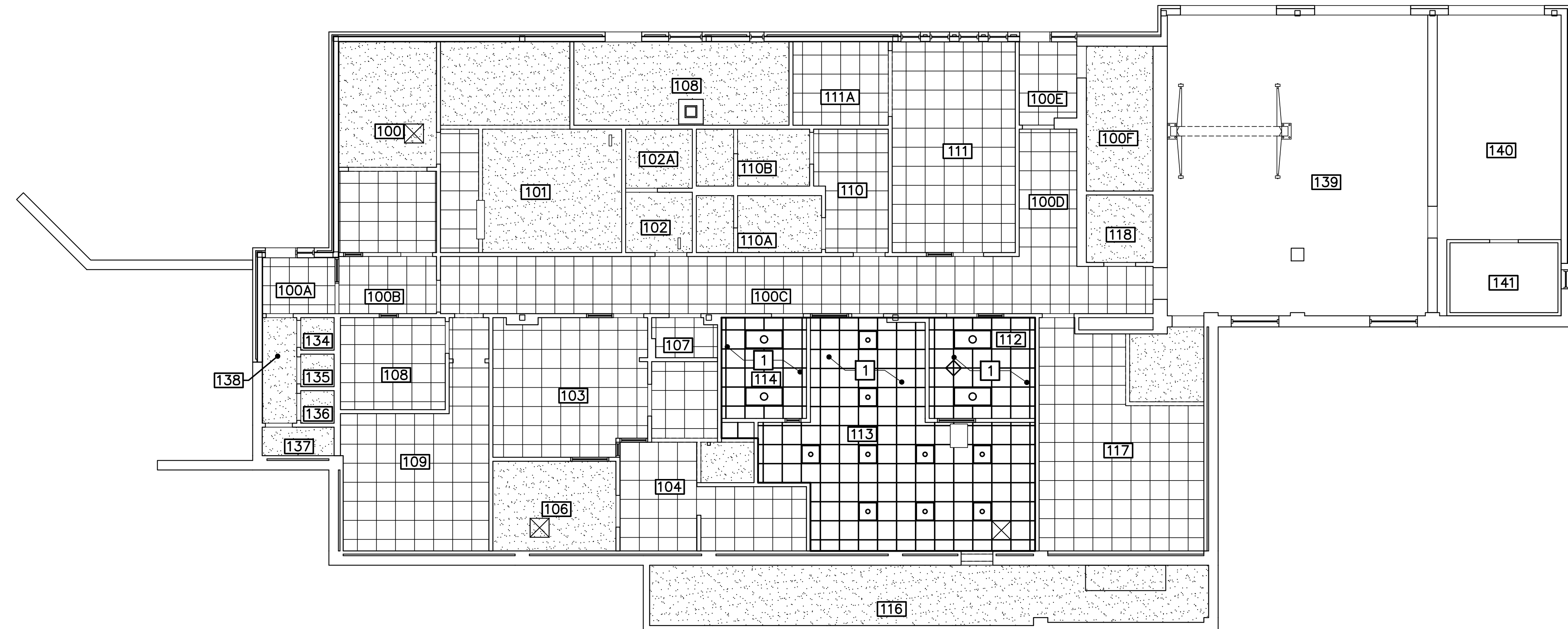
3 ROOF CURB CAP
 AE120 SCALE: 1 1/2"=1'-0"



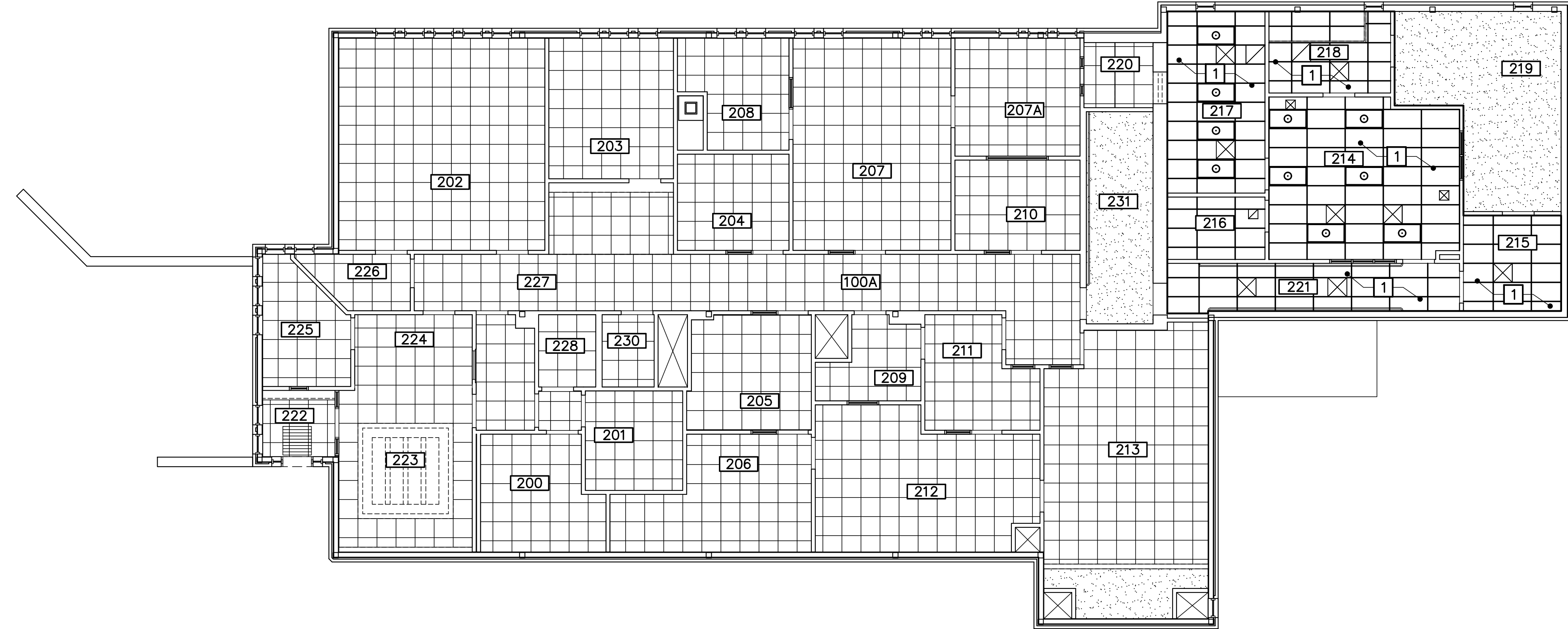
4 SLEEPER DETAIL
 AE120 SCALE: 1 1/2"=1'-0"



			STATE OF MAINE BGS	
			TITLE: MAINE STATE POLICE CRIME LAB, HVAC UPGRADES LOCATION: AUGUSTA, MAINE BGS PROJECT #: PT3376	
DRAWN BY: CRR CHECK BY: JMc			TITLE THIS DWG. ROOF PLAN	
NO. DATE DESCRIPTION BY			DRAWING NO. AE120	
REVISIONS			SHEET NO. 4 of 16	
DATE: 03/01/24			231 Main Street, Biddeford, Maine 04005 207.283.0193	



1 FIRST FLOOR REFLECTED CEILING PLAN
 AE701 SCALE: 1/8"=1'-0"
 PLAN NORTH



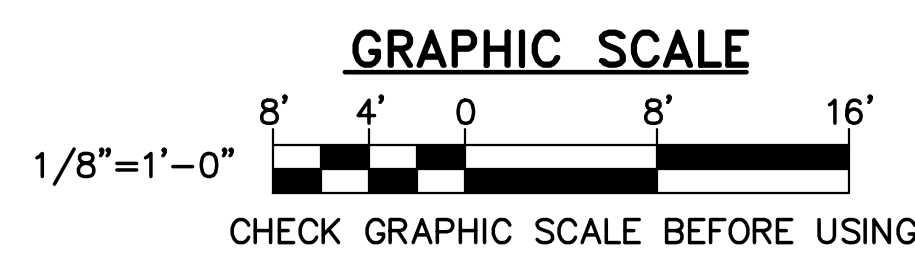
2 SECOND FLOOR REFLECTED CEILING PLAN
 AE701 SCALE: 1/8"=1'-0"
 PLAN NORTH

GENERAL NOTES
 1. COORDINATE REMOVALS WITH MECHANICAL AND ELECTRICAL SHEETS.

KEYNOTES
 1 REINSTALL ACOUSTICAL CEILING PANELS AND GRID. REPLACE DAMAGED ACOUSTICAL PANELS (20% OF EACH TYPE OF PANEL) TO MATCH EXISTING.

CEILING REMOVALS LEGEND:

- EXISTING (TO REMAIN)
- - - EXISTING TO BE REMOVED
- 2'x2' LED LIGHT FIXTURES
- 2'x4' LED LIGHT FIXTURES
- ▨ GYP BD
- ▧ SUSPENDED ACOUSTICAL 2'-0"x2'-0" CEILING SYSTEM
- ▩ SUSPENDED ACOUSTICAL 2'-0"x4'-0" CEILING SYSTEM
- ⊗ SUPPLY DIFFUSER
- ⊘ RETURN DIFFUSER



			STATE OF MAINE BGS TITLE: MAINE STATE POLICE CRIME LAB, HVAC UPGRADES LOCATION: AUGUSTA, MAINE BGS PROJECT #: PT3376
DRAWN BY: CRR CHECK BY: JMc DATE: 03/01/24			TITLE THIS DWG: FIRST AND SECOND FLOOR REFLECTED CEILING PLANS
NO. DATE DESCRIPTION BY			OAK POINT ASSOCIATES AE701 SHEET NO. 5 of 16
REVISIONS			231 Main Street, Biddeford, Maine 04005

MECHANICAL ABBREVIATIONS

AC	AIR CONDITIONING, AIR CONDITIONER
AHU	AIR HANDLING UNIT
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS
B	BOILER
CRAC	COMPUTER ROOM AIR CONDITIONER
CUH	CABINET UNIT HEATER
DDC	DIRECT DIGITAL CONTROLS
DH	DEHUMIDIFIER
Ø, DIA	DIAMETER
DN	DOWN
DTWR	DUEL TEMPERATURE WATER RETURN
DTWS	DUEL TEMPERATURE WATER SUPPLY
E	EXISTING, EXHAUST
EA	EXHAUST AIR, EACH
EF	EXHAUST FAN
ESP	EXTERNAL STATIC PRESSURE
EUH	ELECTRIC UNIT HEATER
EVAP	EVAPORATOR
EWB	ENTERING WET BULB TEMPERATURE
EWC	ELECTRIC WATER COOLER
EWT	ENTERING WATER TEMPERATURE
EXIST	EXISTING
EXP	EXPANSION
GUI	GRAPHICAL USER INTERFACE
H	HUMIDIFIER, HUMIDISTAT, HEIGHT
HP	HORSEPOWER
HVAC	HEATING, VENTING AND AIR CONDITIONING (UNIT)
HWR	HOT WATER RETURN
HWS	HOT WATER SUPPLY
MUA	MAKE UP AIR
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
OBD	OPPOSED BLADE DAMPER
OED	OPEN ENDED DUCT
PVC	POLY VINYL CHLORIDE
RD	ROOF DRAIN
RL	REFRIGERANT LIQUID
RM	ROOM
RPM	REVOLUTIONS PER MINUTE
RS	REFRIGERANT SUCTION
RTU	ROOFTOP UNIT
S	SUPPLY
SS	STAINLESS STEEL
S/S	START/STOP
T	THERMOSTAT, TRANSFER
UH	UNIT HEATER
VAV	VARIABLE AIR VOLUME
VTR	VENT TO ROOF
WC	WATER COLUMN

MECHANICAL SYMBOLS LEGEND

ANNOTATION

- SYMBOL PER ABBREVIATION LIST
- EQUIPMENT SEQUENCE NUMBER
- AIR INLET OR OUTLET WITH CFM
- KEY NOTE
- DIRECTION OF AIR FLOW
- CONNECT TO EXISTING

DUCTWORK

- RETURN GRILLE/REGISTER
- SUPPLY DIFFUSER/REGISTER/GRILLE
- EXHAUST GRILLE/REGISTER
- TRANSFER GRILLE
- SUPPLY DIFFUSER/REGISTER/GRILLE
- DUCT
- FLEXIBLE CONNECTION
- RECTANGULAR TO ROUND FITTING
- MANUAL BALANCING DAMPER IN DUCT
- RETURN DUCT UP
- EXHAUST DUCT UP
- SUPPLY DUCT UP
- SQUARE ELBOW WITH TURNING VANES
- FLEXIBLE DUCT
- MOTORIZED DAMPER, PARALLEL BLADE

EQUIPMENT

- FINRTUBE RADIATION AND ENCLOSURE
- UNIT HEATER
- TERMINAL UNIT, VARIABLE VOLUME
- CENTRIFUGAL FAN
- ROOF EXHAUST FAN OR HOOD
- PUMP

PIPING & VALVES

- PIPE TEE UP OR UP AND DOWN
- ELBOW DOWN
- ELBOW UP OR UP AND DOWN
- PIPE TEE DOWN
- BALL VALVE
- 2-WAY ELECTRIC AUTOMATIC CONTROL VALVE
- 3-WAY AUTOMATIC CONTROL VALVE
- CAP
- DIRECTION OF FLOW

CONTROLS AND METERING

- WALL MOUNTED THERMOSTAT WITH INTEGRAL CONTACTORS, USER-ADJUSTABLE
- WALL MOUNTED TEMPERATURE SENSOR (REFER TO CONTROL DIAGRAMS FOR VARYING SPECIFIC REQUIREMENTS)
- DUCT MOUNTED SMOKE DETECTOR
- WALL MOUNTED, RELATIVE HUMIDITY SENSOR
- START/STOP CONTROLLER
- CURRENT SENSOR
- MOTORIZED DAMPER ACTUATOR

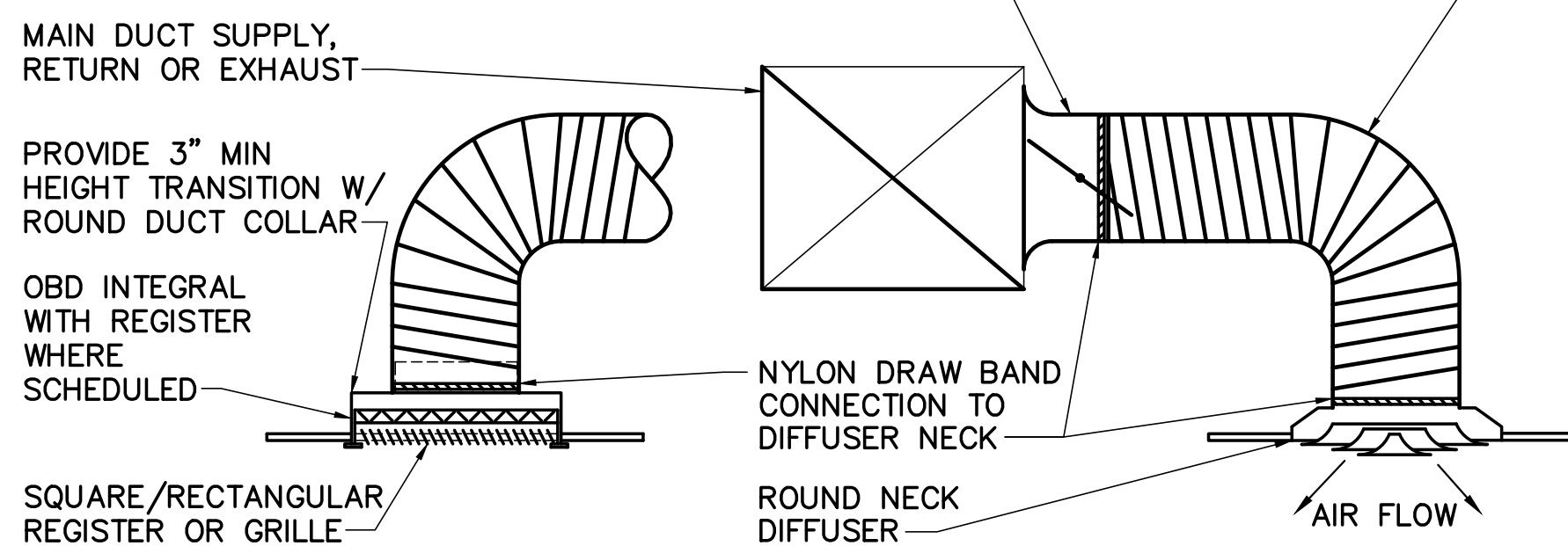
MECHANICAL LINE TYPE LEGEND

- REMOVE ITEMS
- EXIST ITEMS TO REMAIN
- PROVIDE ITEMS
- REFRIGERANT LIQUID
- REFRIGERANT SUCTION
- HOT WATER SUPPLY
- HOT WATER RETURN
- CONTROL WIRING
- DUEL TEMPERATURE WATER SUPPLY
- DUAL TEMPERATURE WATER RETURN
- NATURAL GAS

MECHANICAL GENERAL NOTES

- MECHANICAL WORK MUST BE PERFORMED IN ACCORDANCE WITH STATE AND LOCAL CODES, THE INTERNATIONAL MECHANICAL CODE (I.M.C.), 2015, AND THE INTERNATIONAL ENERGY AND CONSERVATION CODE (IECC), 2015.
- DUCTWORK IS SHOWN DIAGRAMMATICALLY, EXACT LOCATIONS MUST BE DETERMINED IN THE FIELD.
- COORDINATE LOCATION OF HVAC WORK WITH OTHER TRADES. PERFORM CUTTING WORK ASSOCIATED WITH MECHANICAL SYSTEMS.
- HVAC WORK MUST BE SUPPORTED FROM BUILDING STRUCTURE. DO NOT CUT STRUCTURAL MEMBERS.

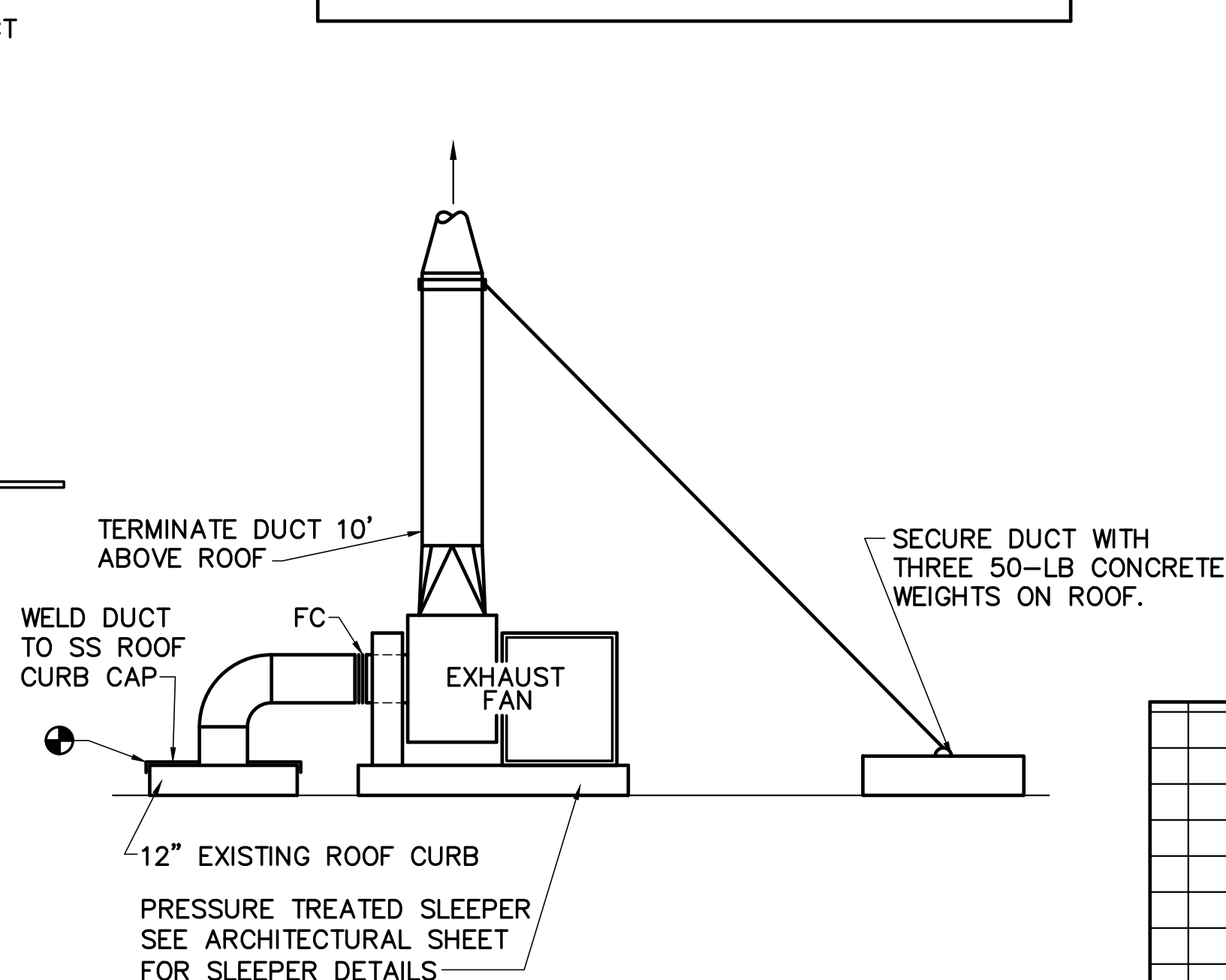
BELLMOUTH FITTING WITH BUTTERFLY DAMPER. PROVIDE RIGID DUCT FROM DAMPER TO DIFFUSER EXCEPT LAST 5 FEET MAY BE FLEX DUCT. FOR CONNECTION TO ROUND MAIN DUCT PROVIDE CONICAL TEE OR WYE



1 DIFFUSER AND REGISTER RUNOUT DETAIL
M-001 NOT TO SCALE

NOTE ON BASIS OF DESIGN

PRODUCTS OF OTHER MANUFACTURERS ARE ACCEPTABLE IF THEY MEET THE OPERATIONAL REQUIREMENTS INDICATED. ANY ADJUSTMENTS TO DUCTING, PIPING, WIRING OR CONFIGURATION DUE TO THE SELECTION OF A MANUFACTURER OTHER THAN THAT LISTED AS THE BASIS OF DESIGN WILL BE ACCOMPLISHED BY THE CONTRACTOR AT NO ADDITIONAL EXPENSE TO THE GOVERNMENT.



2 ROOF UTILITY SET EXHAUST FAN ELEVATION
M-001 NOT TO SCALE

FAN SCHEDULE

UNIT NO	SERVES	CFM	ESP IN WC	FAN TYPE	FAN RPM	SONES	HP	VOLTS/PHASE	BASIS OF DESIGN	ACCESSORIES	NOTES
EF-3	FUME HOOD	650	0.51	CENTRIFUGAL	3185	15.0	3/4	115/1	GREENHECK FUJ-07-BI-X	A,B,C,D,E	1

NOTES:

- ROOF MOUNTED UP-BLAST EXHAUST FAN.

ACCESSORIES:

- A. GRAVITY BACKDRAFT DAMPER.
- B. MOTORIZED DAMPER.
- C. GALVANIZED BIRD SCREEN.
- D. MFR FAN MOUNTED DISCONNECT SWITCH.
- E. TIME DELAY SWITCH.

DIFFUSER / REGISTER SCHEDULE

UNIT NO	FACE SIZE IN	NECK SIZE IN	MAX PRESSURE DROP IN WC	MAX NOISE CRITERIA	CFM RANGE	TYPE	BASIS OF DESIGN	NOTES
S-1	24x24	6ø	0.10	25	0-100	LAY-IN SQUARE SUPPLY DIFFUSER	PRICE SCD	1

- NOTES: 1. 24x24 LAY-IN FOR T-BAR CEILING

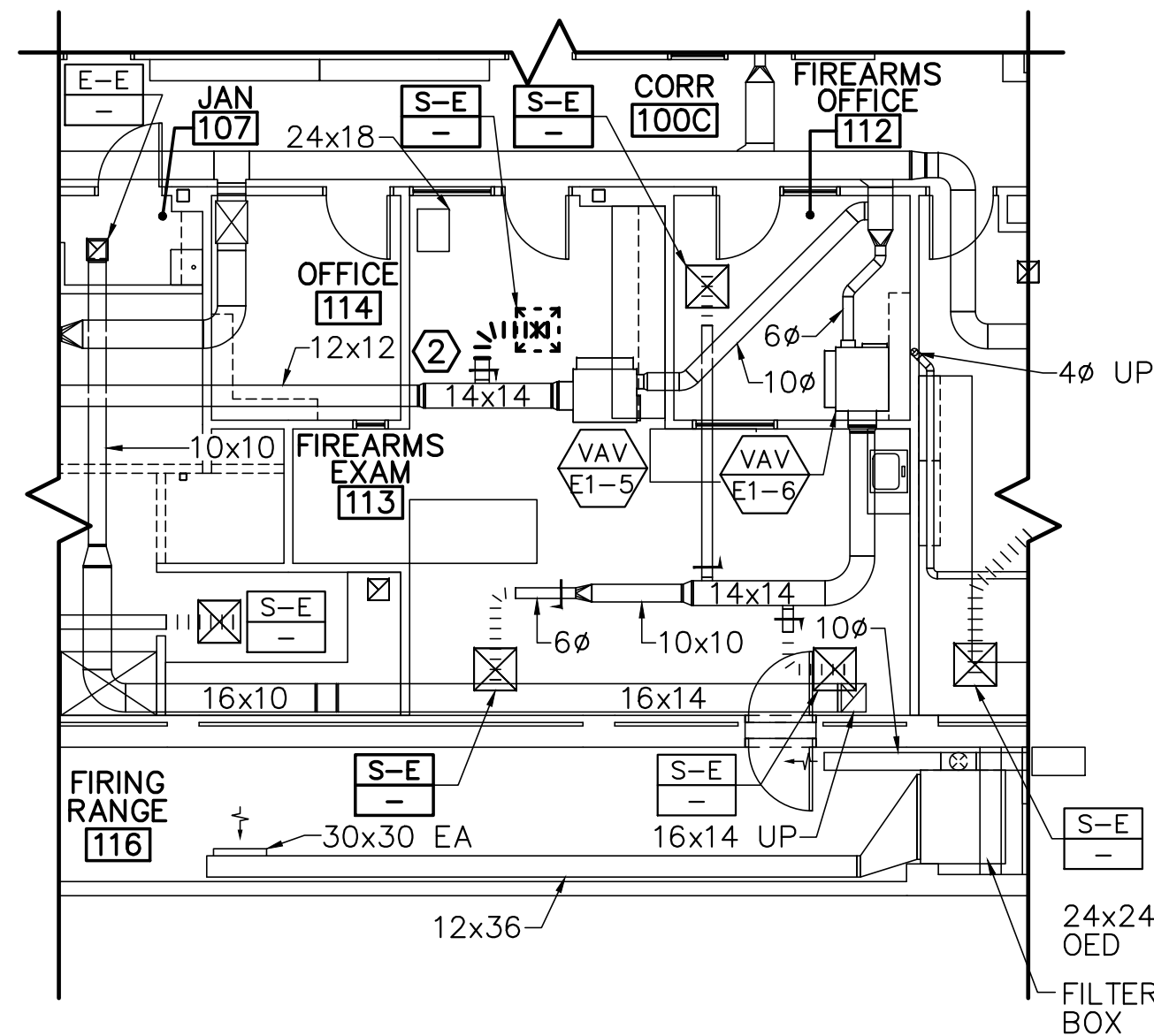
EXISTING VAV SCHEDULE

UNIT NO	PRIMARY CFM		GPM	NOTES
	MAX	MIN		
VAV E1-1	100	0	0.5	-
VAV E1-2	275	0	0.6	-
VAV E1-3	200	100	0.5	-
VAV E1-4	350	200	0.8	-
VAV E1-5	150	100	0.5	-
VAV E1-6	275	150	0.5	-
VAV E1-7	400	200	1.0	-
VAV E2-1	210	150	0.5	-
VAV E2-2	720	450	1.6	-
VAV E2-3	100	0	0.5	-
VAV E2-4	250	150	0.6	-
VAV E2-5	170	100	0.5	-
VAV E2-6	400	250	0.9	-
VAV E2-7	340	215	0.8	-
VAV E2-8	265	100	0.5	-
VAV E2-9	460	250	0.7	-
VAV E2-10	300	150	0.5	-
VAV E2-11	800	300	1.8	-

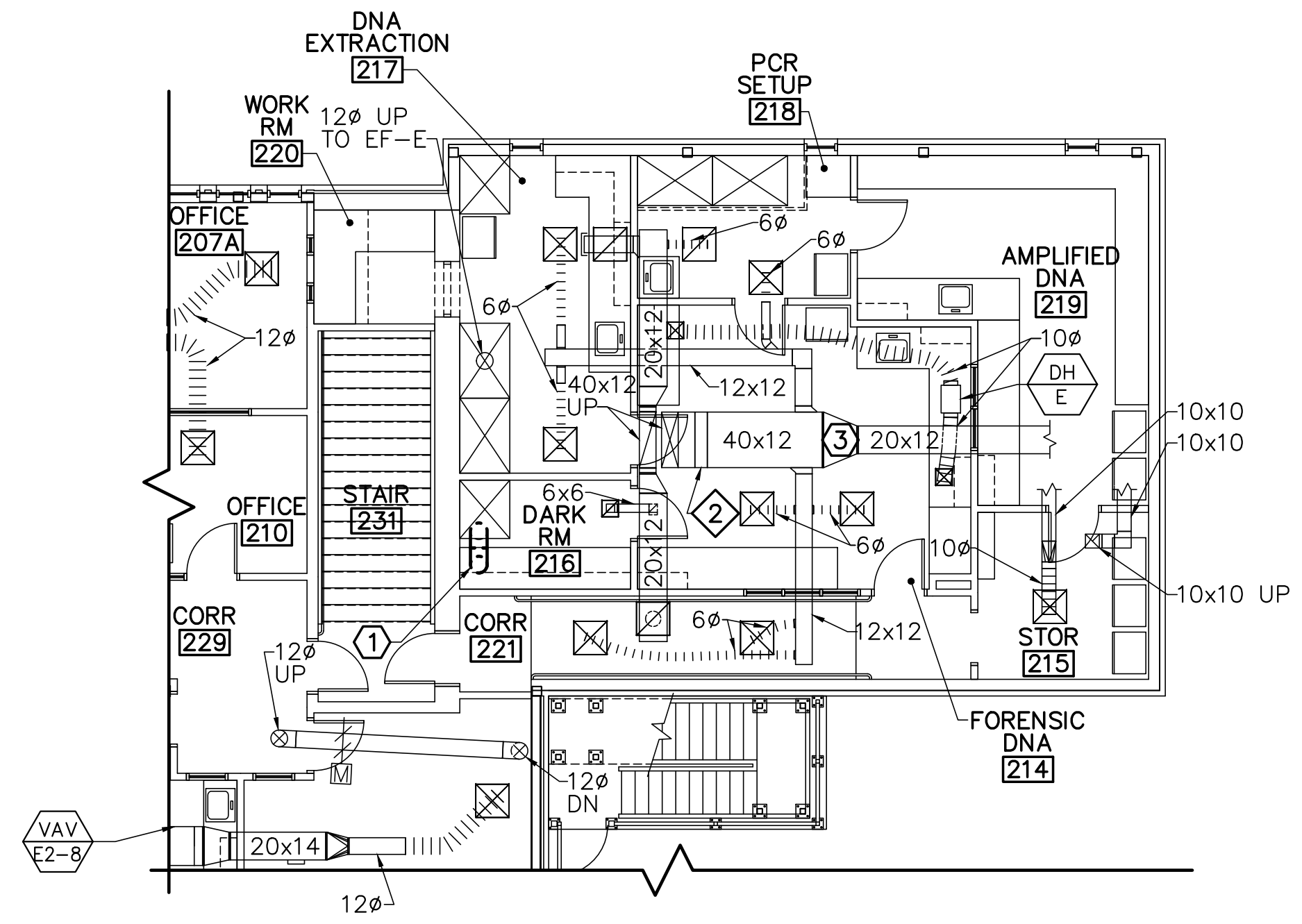
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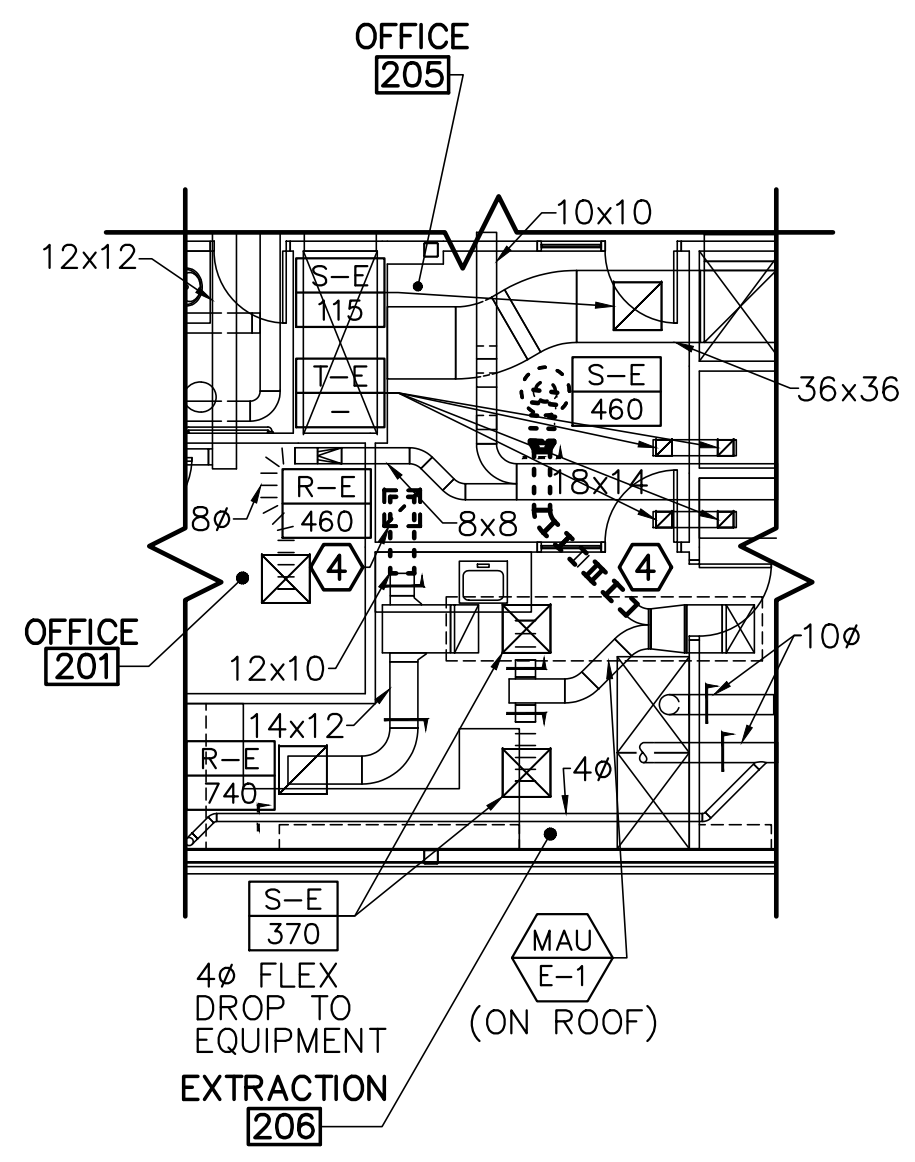
			<p>STATE OF MAINE BGS</p> <p>TITLE MAINE STATE POLICE CRIME LAB, HVAC UPGRADES</p> <p>LOCATION: AUGUSTA, MAINE BGS PROJECT # PT3376</p> <p>TITLE THIS DWG: MECHANICAL LEGENDS, DETAILS AND SCHEDULES</p>							
<p>DRAWN BY: DHR</p> <p>CHECK BY: AJK</p>	<p>DATE: 03/01/24</p>	<p>DRAWING NO: M-001</p> <p>SHEET NO: 6 of 16</p>								
<p>REVISIONS</p> <table border="1"> <thead> <tr> <th>NO.</th> <th>DATE</th> <th>DESCRIPTION</th> <th>BY</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>			NO.	DATE	DESCRIPTION	BY				
NO.	DATE	DESCRIPTION	BY							



1 FIRST FLOOR MECHANICAL DUCTWORK REMOVALS PART PLAN
 MD101 SCALE: 1/8"=1'-0" PLAN NORTH



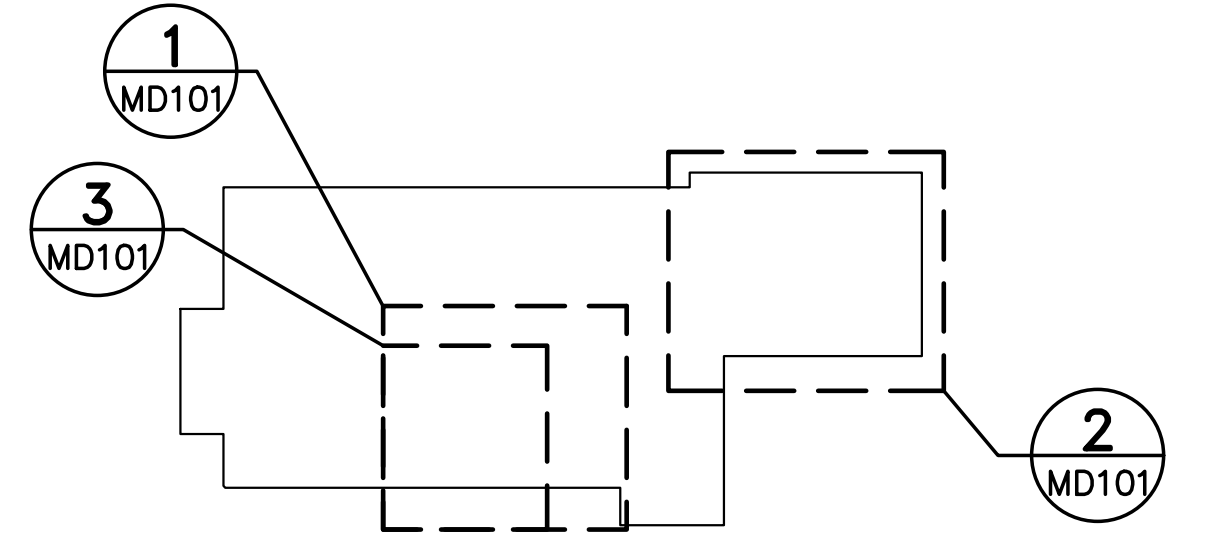
2 SECOND FLOOR MECHANICAL DUCTWORK REMOVALS PART PLAN
 MD101 SCALE: 1/8"=1'-0" PLAN NORTH



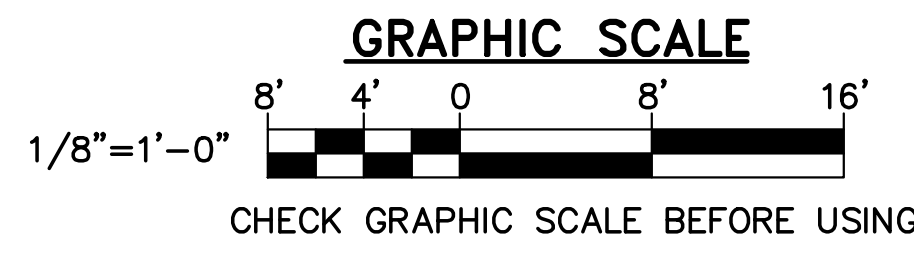
3 SECOND FLOOR MECHANICAL DUCTWORK REMOVALS PART PLAN
 MD101 SCALE: 1/8"=1'-0" PLAN NORTH

GENERAL NOTES

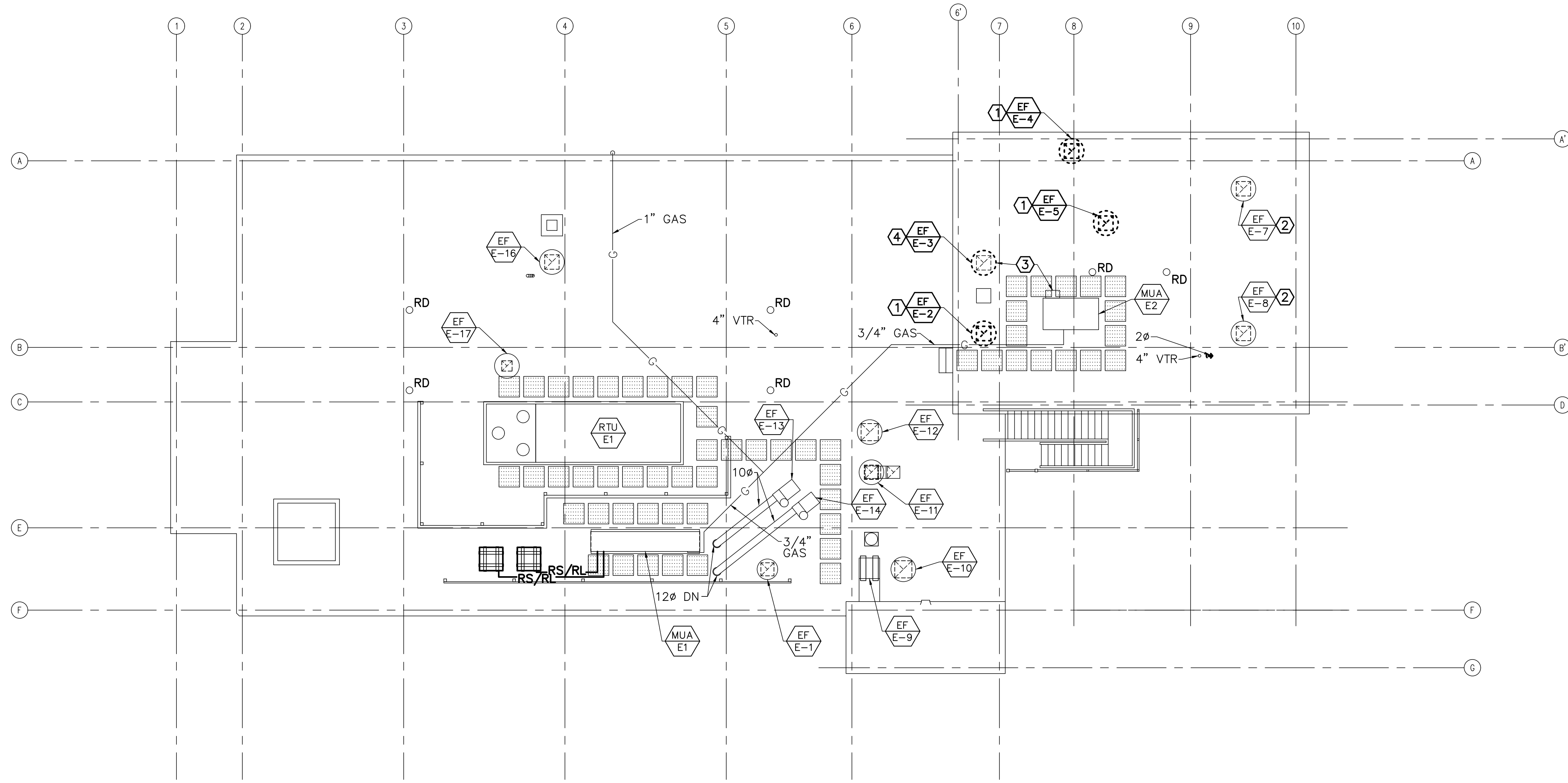
1. -
- EXISTING KEYNOTES (THIS SHEET ONLY)
 - ① (3) 4ø DUCTS TO 16x12 INSULATED PLENUM WITH INTERIOR DIVIDERS AS INDICATED. 16x12 UP TO RELIEF HOOD ON ROOF WITH COUNTERBALANCED BACKDRAFT DAMPER IN CURB.
 - ② ABANDONED HUMIDIFICATION COIL.
- REMOVAL KEYNOTES (THIS SHEET ONLY)
 - ① REMOVE ABANDONED DUCTWORK UP TO ABANDONED EF-1, SEE MD102.
 - ② REMOVE EXISTING DUCT AND DIFFUSER AS INDICATED BY LINETYPE.
 - ③ REMOVE DUCTWORK INSULATION ON ALL SUPPLY AND RETURN DUCTWORK ON THIS SYSTEM EXCEPT IN ROOM 219.
 - ④ REMOVE DUCTWORK AND DIFFUSERS AS INDICATED BY DEMO LINE-TYPE. STORE DIFFUSERS FOR RE-INSTALLATION. REMOVE CEILING TILES AS NEEDED TO ACCESS DUCTWORK, SALVAGE TILES FOR RE-INSTALLATION. WORK IN THIS AREA UNDER PHASE 2.



KEYPLAN
 NTS PLAN NORTH

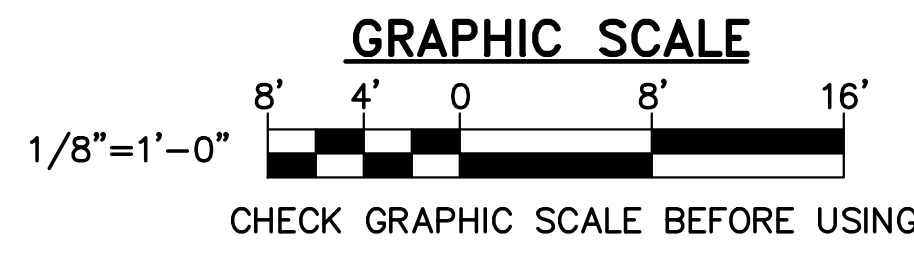


			STATE OF MAINE BGS	
			TITLE MAINE STATE POLICE CRIME LAB. HVAC UPGRADES	
			LOCATION AUGUSTA, MAINE BGS PROJECT # PT3376	
			TITLE THIS DWG FIRST AND SECOND FLOOR MECHANICAL REMOVALS PART PLAN	
			OAK POINT ASSOCIATES MD101	
			DRAWING NO. 207.283.0193	
			SHEET NO. 7 of 16	
			231 Main Street, Biddeford, Maine 04005	
			207.283.0193	
			DRAWN BY: DHR	
			CHECK BY: AJK	
			DATE 03/01/24	
			NO. DATE DESCRIPTION BY	
			REVISIONS	

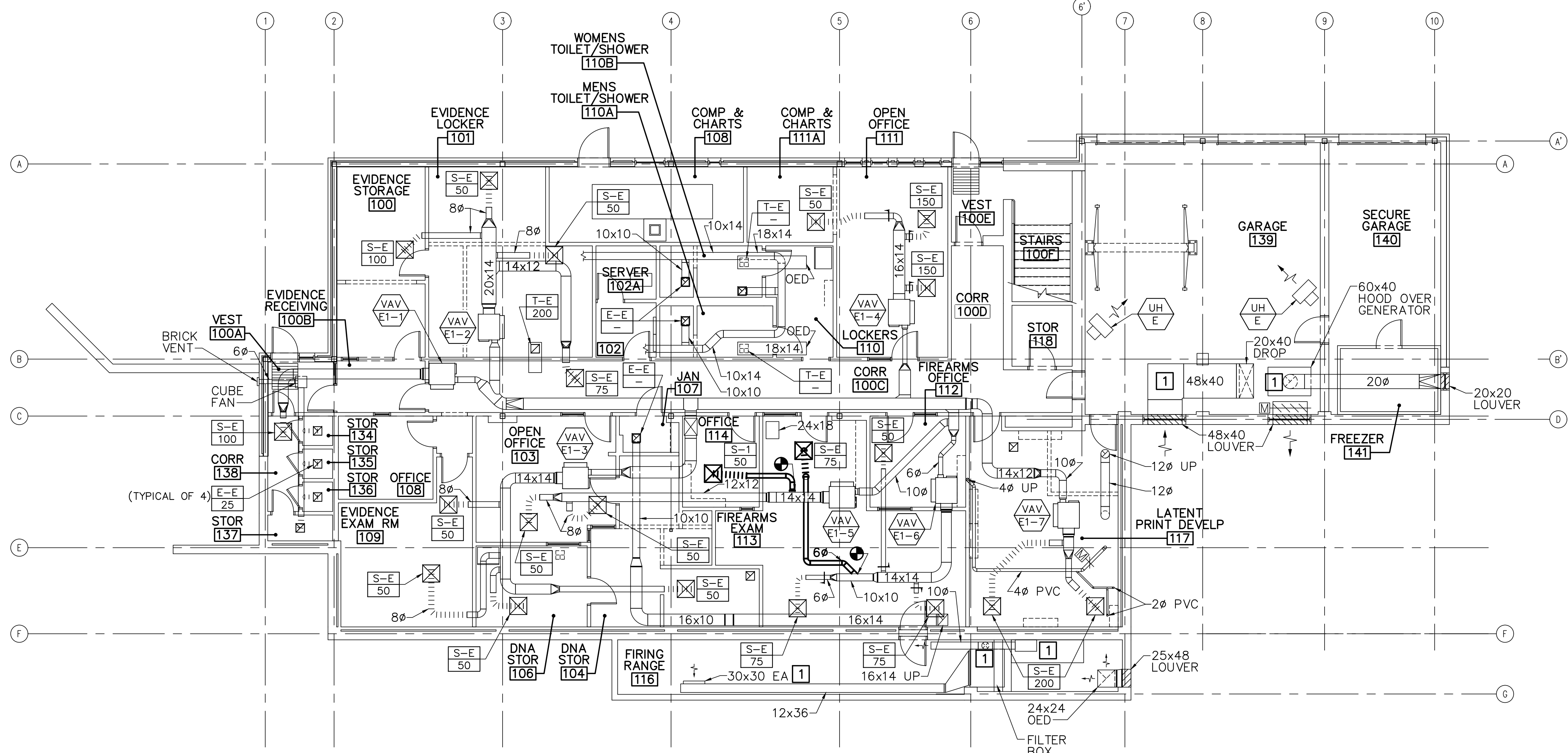


- REMOVAL KEYNOTES (THIS SHEET ONLY)**
- ① REMOVE FAN AND ASSOCIATED DUCTWORK. PATCH ROOF.
 - ② FAN TO REMAIN. CURRENTLY SERVING LAB HOOD.
 - ③ EXHAUST FAN IS 6 FEET FROM AIR INTAKE HOOD OF UNIT, FUME ODOR IS ENTERING AIR INTAKE AND BEING SUPPLIED TO LAB SPACE.
 - ④ REMOVE EXHAUST FAN, EXISTING ROOF CURB, AND DUCT TO BE USED FOR INSTALLATION OF EF-1.

1 **ROOF MECHANICAL REMOVALS PLAN**
 MD102 SCALE: 1/8"=1'-0"
 PLAN NORTH



		STATE OF MAINE BGS	
		TITLE MAINE STATE POLICE CRIME LAB, HVAC UPGRADES LOCATION AUGUSTA, MAINE BGS PROJECT # PT3376	
DRAWN BY: DHR CHECK BY: AJK		OAK POINT ASSOCIATES MD102	
NO. DATE DESCRIPTION BY		TITLE THIS DWG: ROOF MECHANICAL REMOVALS PLAN	
REVISIONS		DATE 03/01/24	
NO. DATE DESCRIPTION BY		SHEET NO. 8 OF 16	



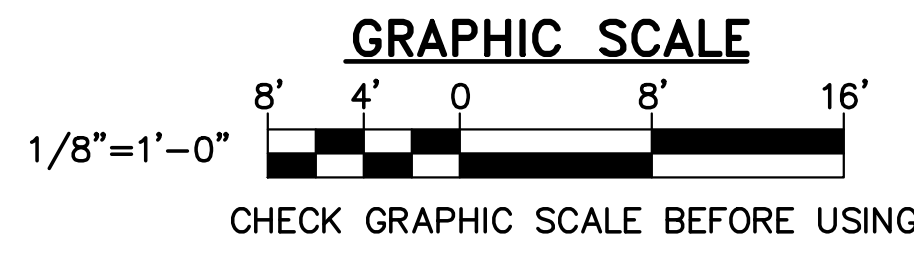
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- 1. TEST AND BALANCE ALL AIRSIDE SYSTEMS ON THIS DRAWING (UNLESS OTHERWISE NOTED) IN ACCORDANCE WITH SPECIFICATIONS.

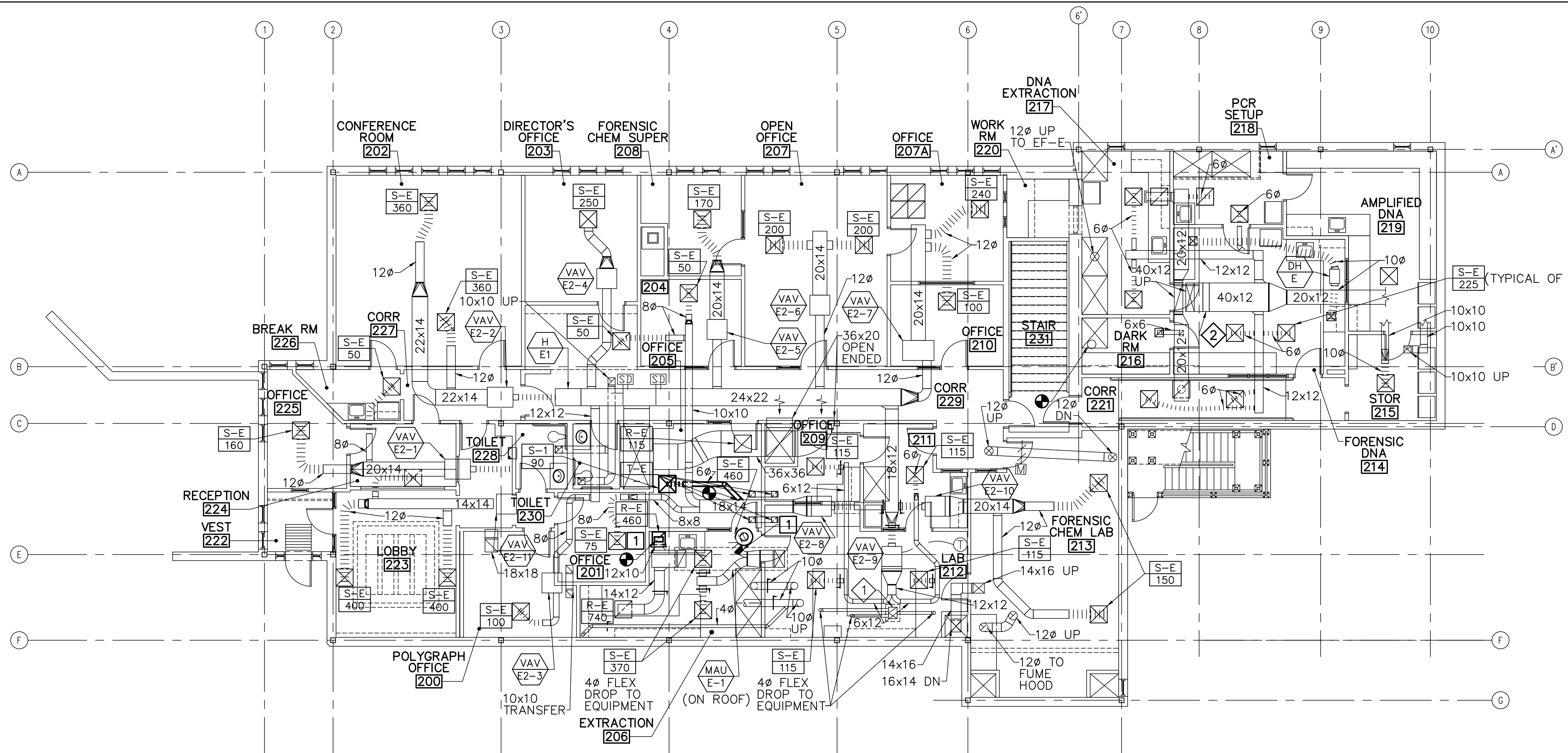
KEYNOTES (THIS SHEET ONLY)

- 1 NOT TO BE BALANCED.

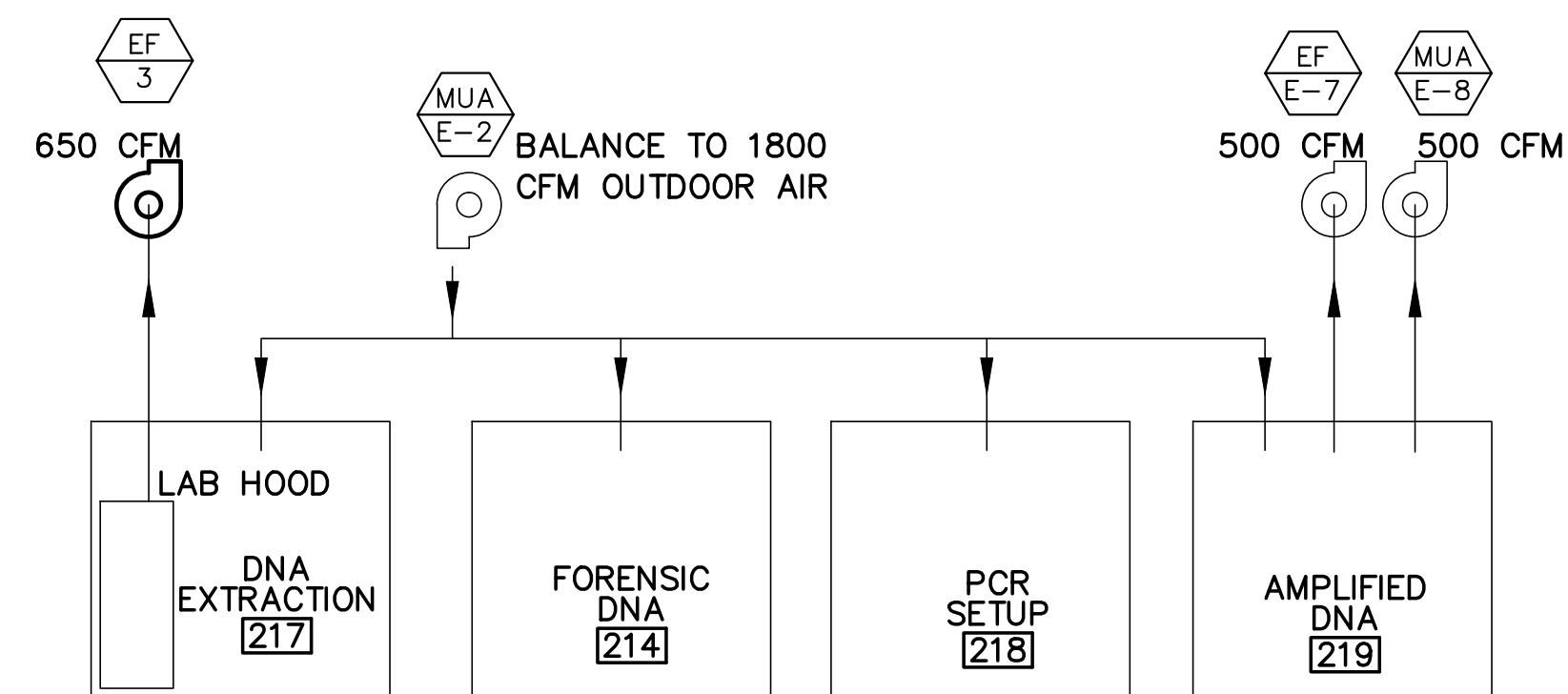
**FIRST FLOOR
1 MECHANICAL DUCTWORK PLAN**
MH101 SCALE: 1/8"=1'-0"
PLAN NORTH



			STATE OF MAINE BGS	
			TITLE MAINE STATE POLICE CRIME LAB, HVAC UPGRADES LOCATION AUGUSTA, MAINE BGS PROJECT # PT3376	
DRAWN BY: DHR CHECK BY: AJK			OAK POINT ASSOCIATES 231 Main Street, Biddeford, Maine 04005	
NO. DATE DESCRIPTION BY			MH101 SHEET NO.	
REVISIONS			DATE 03/01/24	



1 SECOND FLOOR MECHANICAL DUCTWORK PLAN
 MH102 SCALE: 1/8"=1'-0" PLAN NORTH



2 DNA LAB AIR BALANCE DETAIL
 MH102 NOT TO SCALE

GENERAL NOTES

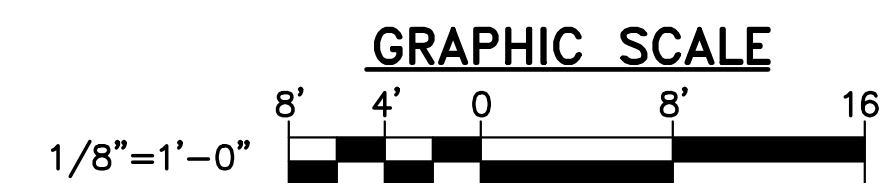
- TEST AND BALANCE ALL AIRSIDE SYSTEMS ON THIS DRAWING IN ACCORDANCE WITH SPECIFICATIONS.

EXISTING KEYNOTES (THIS SHEET ONLY)

- ① (3) 4φ DUCTS TO 16x12 INSULATED PLENUM WITH INTERIOR DIVIDERS AS INDICATED. 16x12 UP TO RELIEF HOOD ON ROOF WITH COUNTERBALANCED BACKDRAFT DAMPER IN CURB.
- ② ABANDONED HUMIDIFICATION COIL.

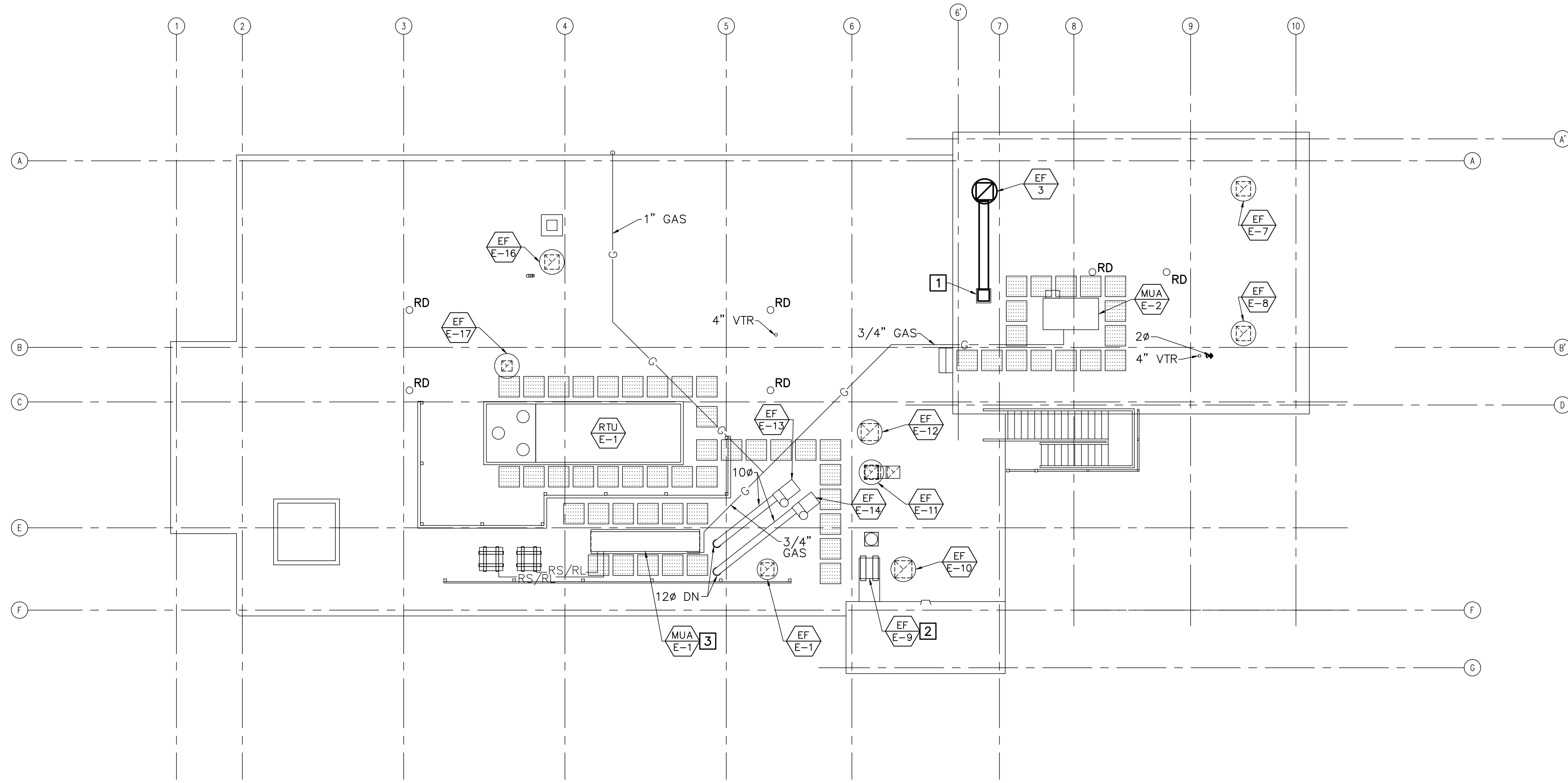
KEYNOTES (THIS SHEET ONLY)

- ① RELOCATE EXISTING SUPPLY AND RETURN DIFFUSERS AS SHOWN. WORK IN THIS AREA UNDER PHASE 2



CHECK GRAPHIC SCALE BEFORE USING

				STATE OF MAINE BGS
			TITLE MAINE STATE POLICE CRIME LAB, HVAC UPGRADES LOCATION AUGUSTA, MAINE BGS PROJECT # PT3376	
			TITLE THIS DWG SECOND FLOOR MECHANICAL DUCTWORK PLAN	
			OAK POINT ASSOCIATES	MH102
NO. DATE DESCRIPTION BY			DRAWN BY: DHR CHECK BY: AJK	SHEET NO. 10 of 16
REVISIONS			NO. DATE	207.283.0193
			DATE 03/01/24	207.283.0193



GENERAL NOTES

1. TEST AND BALANCE ALL AIRSIDE SYSTEMS ON THIS DRAWING (UNLESS OTHERWISE NOTED) IN ACCORDANCE WITH SPECIFICATIONS.

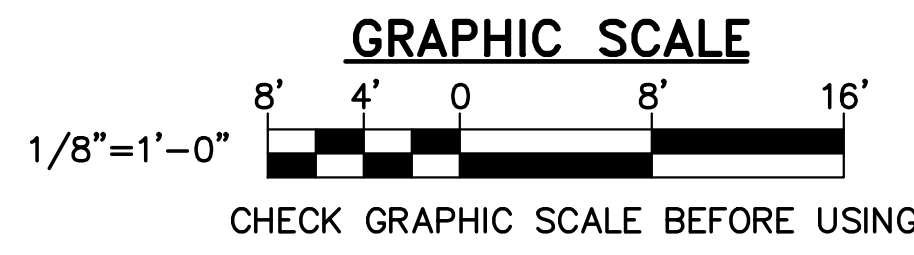
KEYNOTES (THIS SHEET ONLY)

1 CONNECT TO EXISTING DUCT PENETRATION.

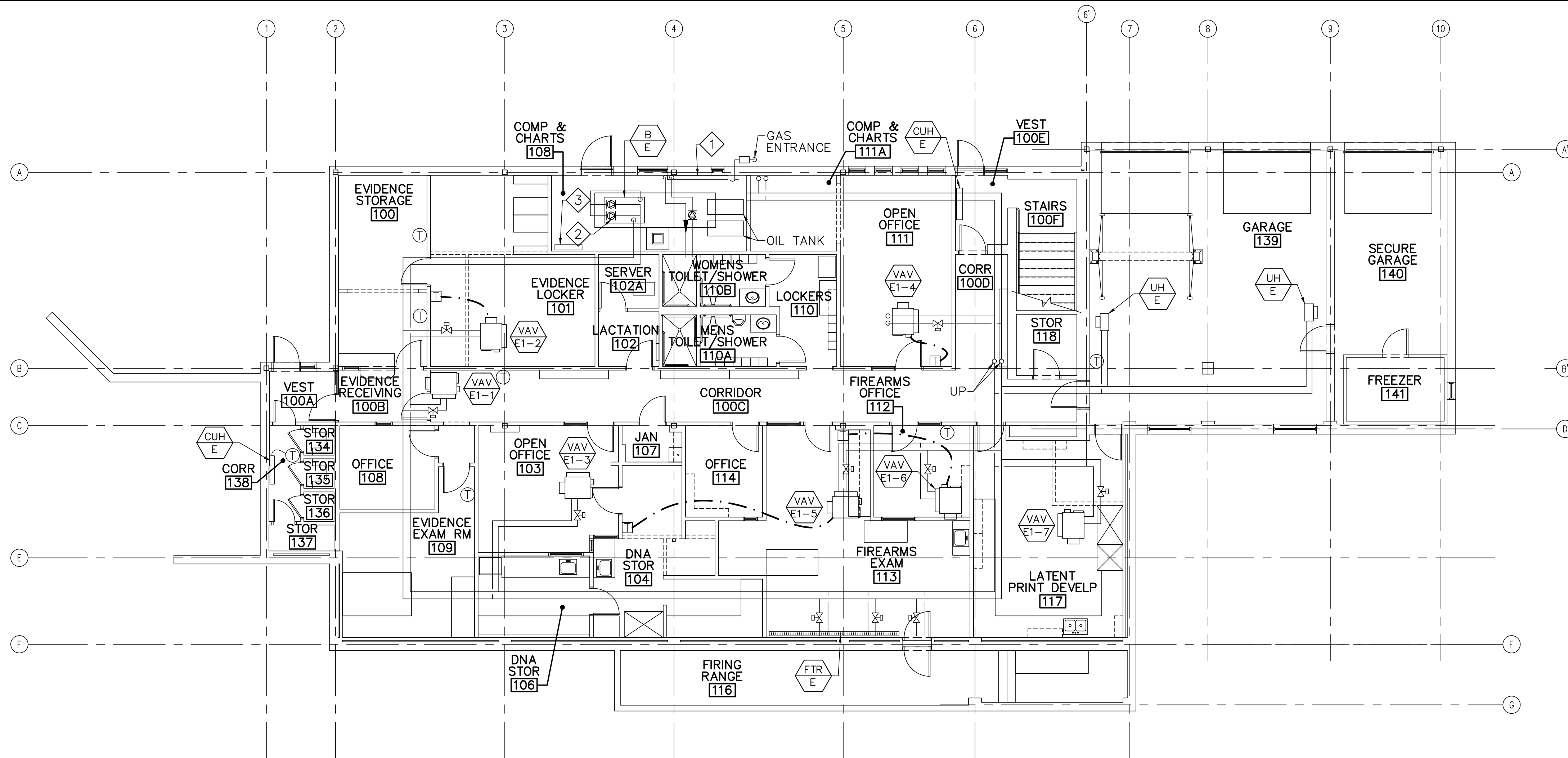
2 NOT TO BE BALANCED

3 TAKE AIRFLOW MEASUREMENTS OF EF-13 AND EF-14 AND BALANCE MAKEUP AIR UNIT ACCORDINGLY.

1 ROOF MECHANICAL PLAN
 MH103 SCALE: 1/8"=1'-0"



			STATE OF MAINE BGS	
			TITLE MAINE STATE POLICE CRIME LAB, HVAC UPGRADES LOCATION AUGUSTA, MAINE BGS PROJECT # PT3376	
TITLE THIS DWG: ROOF MECHANICAL PLAN				
DRAWN BY: DHR CHECK BY: AJK			MH103 SHEET NO.	
NO. DATE DESCRIPTION BY			DATE 03/01/24	
REVISIONS			11 of 16	



FIRST FLOOR
1 MECHANICAL PIPING AND CONTROLS PLAN
 MP101 SCALE: 1/8"=1'-0"



GENERAL NOTES

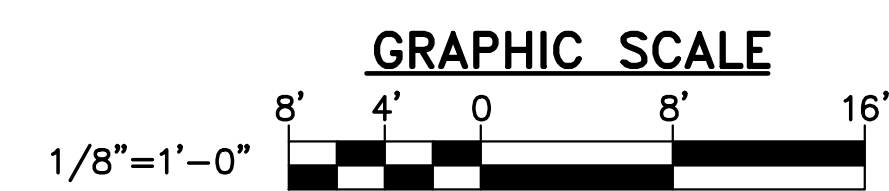
1. VERIFY LOCATION OF VAV BOX AND THERMOSTAT FOR TAB PURPOSES.

EXISTING KEYNOTES (THIS SHEET ONLY)

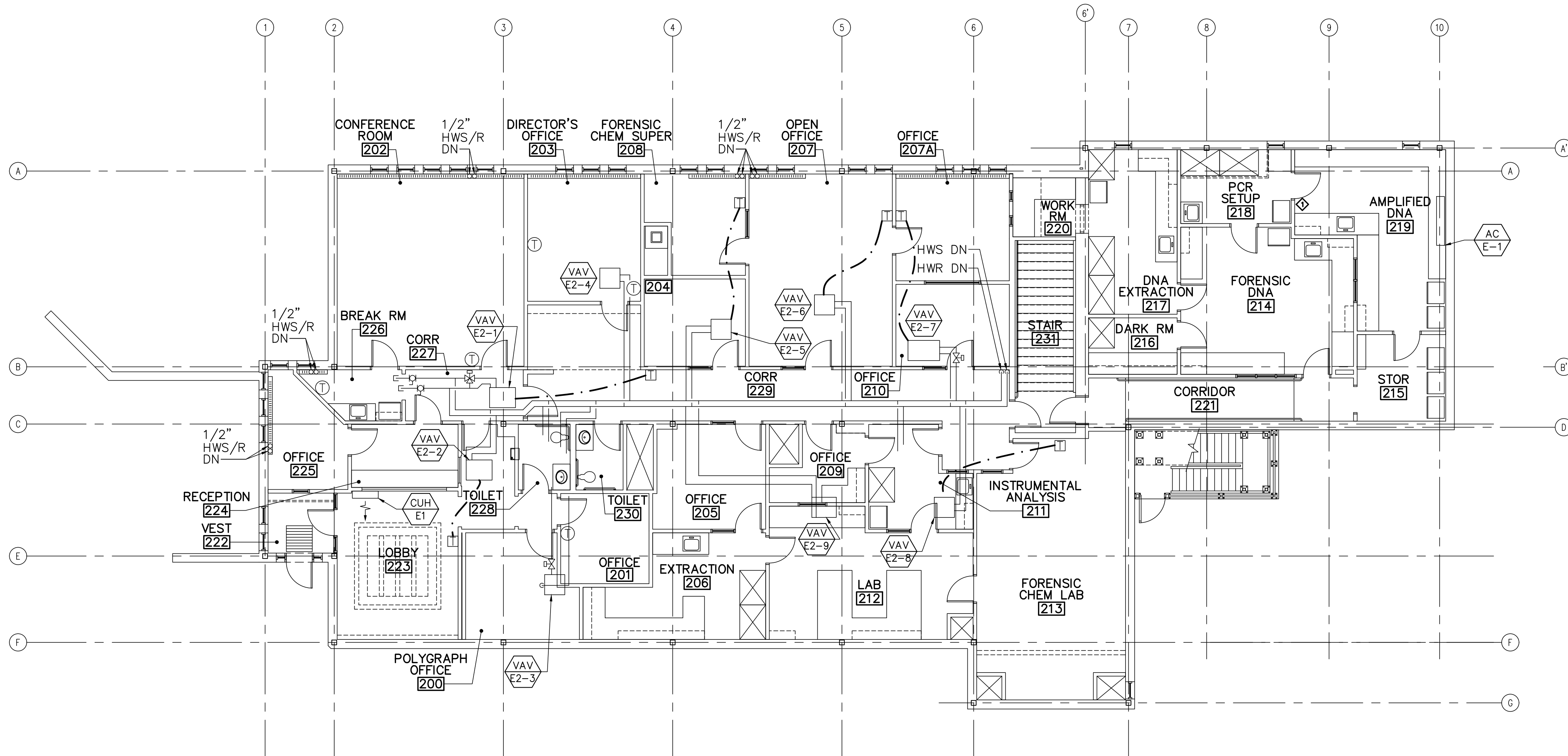
- 1 GLYCOL HEAT EXCHANGER FOR ROOFTOP HEATING COIL.
- 2 HOT WATER SUPPLY PUMP SERVING PERIMETER HEAT AND VAV BOX REHEAT COILS.
- 3 LOCATION OF EXISTING TRANE CONTROLS INTERFACE.

KEYNOTES (THIS SHEET ONLY)

- 1 -



			STATE OF MAINE	
			BGS	
TITLE THIS DWG: FIRST FLOOR MECHANICAL PIPING AND CONTROLS PLAN			TITLE MAINE STATE POLICE CRIME LAB, HVAC UPGRADES LOCATION AUGUSTA, MAINE BGS PROJECT # PT3376	
			DRAWN BY: DHR CHECK BY: AJK	
NO. DATE DESCRIPTION BY			DATE 03/01/24	
REVISIONS			DRAWING NO. MP101 SHEET NO. 12 OF 16	



SECOND FLOOR
1 MECHANICAL PIPING AND CONTROLS PLAN
 MP102 SCALE: 1/8"=1'-0"



GENERAL NOTES

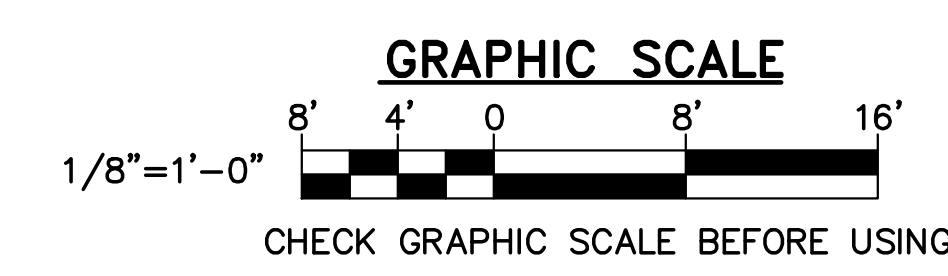
1. VERIFY LOCATION OF VAV BOX AND THERMOSTAT FOR TAB PURPOSES.

EXISTING KEYNOTES (THIS SHEET ONLY)

- 1 ROOM PRESSURE SENSOR

KEYNOTES (THIS SHEET ONLY)

- 1 -

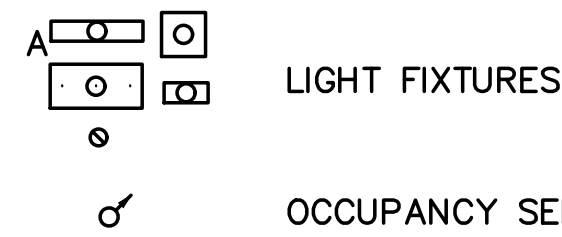


			STATE OF MAINE BGS	
			TITLE MAINE STATE POLICE CRIME LAB, HVAC UPGRADES LOCATION AUGUSTA, MAINE BGS PROJECT # PT3376	
DRAWN BY: DHR CHECK BY: AJK			OAK POINT ASSOCIATES MP102	
NO. DATE DESCRIPTION BY			SHEET NO. 13 OF 16	
REVISIONS			DATE 03/01/24	

ELECTRICAL SYMBOLS

LIGHTING

NOTE: UPPER CASE SUBSCRIPTS INDICATE FIXTURE TYPE. REFER TO LIGHTING FIXTURE SCHEDULE.



LIGHT FIXTURES

OCCUPANCY SENSOR

SECURITY

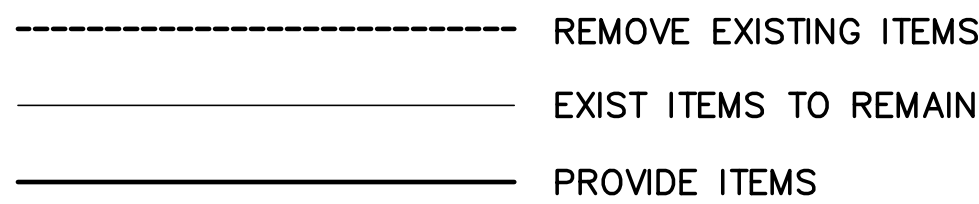


MOTOR SENSOR

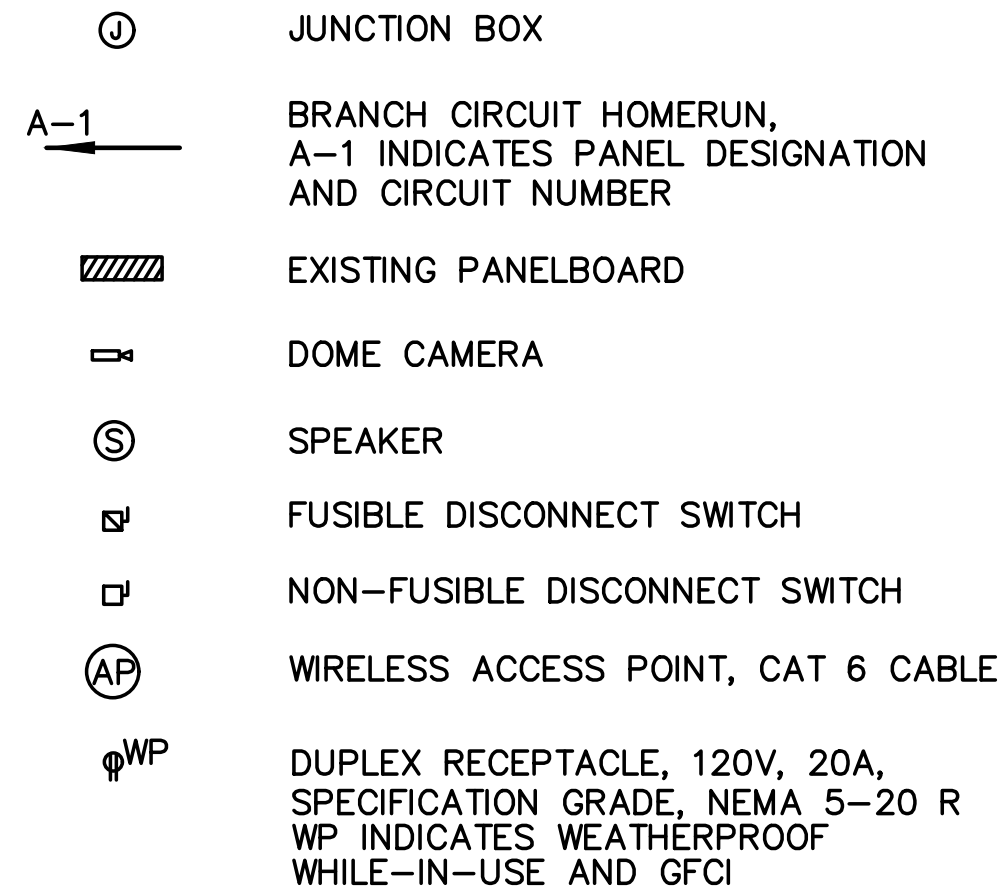


REQUEST TO EXIT DEVICE

LINE TYPE LEGEND

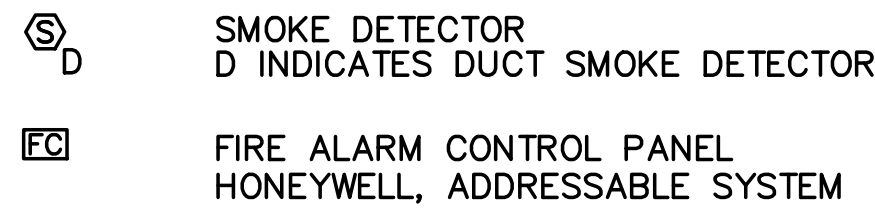


GENERAL



JUNCTION BOX
 BRANCH CIRCUIT HOMERUN, A-1 INDICATES PANEL DESIGNATION AND CIRCUIT NUMBER
 EXISTING PANELBOARD
 DOME CAMERA
 SPEAKER
 FUSIBLE DISCONNECT SWITCH
 NON-FUSIBLE DISCONNECT SWITCH
 WIRELESS ACCESS POINT, CAT 6 CABLE
 DUPLEX RECEPTACLE, 120V, 20A, SPECIFICATION GRADE, NEMA 5-20 R WP INDICATES WEATHERPROOF WHILE-IN-USE AND GFCI

FIRE ALARM



SMOKE DETECTOR
 D INDICATES DUCT SMOKE DETECTOR
 FIRE ALARM CONTROL PANEL HONEYWELL, ADDRESSABLE SYSTEM

ELECTRICAL GENERAL NOTES

- COMPLY WITH THE REQUIREMENTS OF THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE (NEC), NFPA, AND STATE AND LOCAL CODES.
- COORDINATE WORK WITH ARCHITECTURAL, AND MECHANICAL TRADES.
- ELECTRICAL EQUIPMENT AND WIRING MUST BE NEW AND UL LISTED UNLESS OTHERWISE NOTED.
- COORDINATE LIGHT FIXTURES AND OTHER CEILING MOUNTED ELECTRICAL EQUIPMENT WITH ARCHITECTURAL, AND MECHANICAL WORK TO AVOID INTERFERENCE.
- PROVIDE A SEPARATE GREEN GROUNDING CONDUCTOR FOR EACH INDIVIDUAL CIRCUIT. METAL CONDUIT MUST BE GROUNDED BUT MUST NOT BE USED AS THE EQUIPMENT GROUNDING CONDUCTOR.
- VERIFY EXISTING CONDITIONS AND DIMENSIONS AND REPORT DISCREPANCIES TO THE CONTRACTING OFFICERS REPRESENTATIVE. THE CONTRACTOR MUST PROCEED WITH THE WORK ONLY AFTER THE DISCREPANCIES HAVE BEEN RESOLVED BY THE OWNER.
- CONDUCTORS MUST BE MINIMUM #12 AWG UNLESS NOTED OTHERWISE.
- CONDUIT MUST BE MINIMUM 3/4" UNLESS OTHERWISE NOTED.
- UNLESS OTHERWISE INDICATED, WIRE AND CONDUIT SIZE FOR EACH 15A 1P, 15A 2P, 20A 1P, AND 20A 2P BRANCH CIRCUIT MUST BE 2 #12 + #12G, IN 3/4"C.
- PROVIDE A SEPARATE NEUTRAL CONDUCTOR FOR EACH INDIVIDUAL 120V CIRCUIT.
- SEAL CONDUIT INTERIOR OF SPARE AND ACTIVE CONDUITS TO PROHIBIT PASSAGE OF MOISTURE. PROVIDE SEALANT PRODUCT INTENDED FOR SUCH USE. PROVIDE AT CONDUITS PENETRATING FLOORS, EXTERIOR WALLS, AND ROOF. BASIS OF DESIGN: AMERICAN POLYWATER FST.

ELECTRICAL ABBREVIATIONS

A, AMP	AMPERE
A3P	AMPERES, 3-POLE
AC	ALTERNATING CURRENT
AFF	ABOVE FINISHED FLOOR
AIC	AMPERE INTERRUPTING CAPACITY
AVG	AVERAGE
AWG	AMERICAN WIRE GAUGE
BKR	BREAKER
C	CONDUCTOR, CONDUIT
CB	CIRCUIT BREAKER
CKT	CIRCUIT
DWG	DRAWING
EF	EXHAUST FAN
EMT	ELECTRICAL METALLIC TUBING
G	GROUND; GROUND FAULT CIRCUIT INTERRUPTER
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
HVAC	HEATING, VENTILATION, AND AIR CONDITIONING
KCMIL	KILO-CIRCULAR MILS
KVA	KILO-VOLT-AMPERE
KW	KILO-WATT
L	LIGHTING LOAD TYPE FOR PANEL SCHEDULE
LED	LIGHT EMITTING DIODE
LTG	LIGHTING
M	MOTOR LOAD TYPE FOR PANEL SCHEDULE
MAX	MAXIMUM
MCB	MAIN CIRCUIT BREAKER
MDP	MAIN DISTRIBUTION PANELBOARD
MIN	MINIMUM
MLO	MAIN LUG ONLY
N	NEUTRAL
NEC	NATIONAL ELECTRIC CODE
NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
NO, #	NUMBER
OCC	OCCUPANCY
Ø	PHASE
P	POLE
P/O	PART OF
R	RECEPTACLE LOAD TYPE FOR PANEL SCHEDULE
REC	RECEPTACLE
RGS	RIGID GALVANIZED STEEL
RM	ROOM
RMC	RIGID METAL CONDUIT
SW	SWITCH
THHN	HEAT RESISTANT THERMOPLASTIC WIRE WITH NYLON JACKET
THWN	MOISTURE & HEAT RESISTANT THERMOPLASTIC WIRE WITH NYLON JACKET
TYP	TYPICAL
UL	UNDERWRITERS LABORATORIES
V	VOLT
VA	VOLT AMPERE
W	WATT, WIRE
W/	WITH
WP	WEATHERPROOF

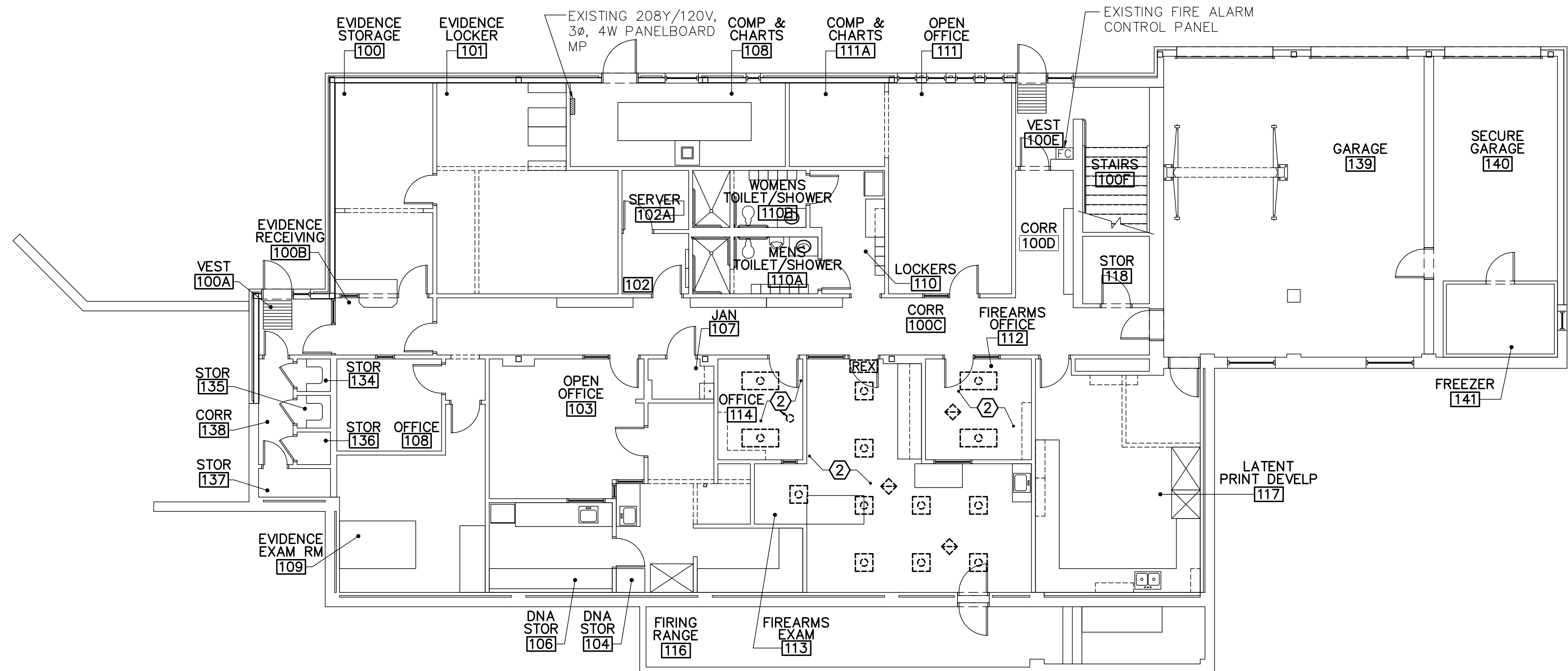
FIRE ALARM SYSTEM NOTES

- EXISTING FIRE-ALARM CONTROL PANEL
 - HONEYWELL ADDRESSABLE CONTROL PANEL.
- FIRE ALARM INSTALLATION AND TESTING
 - INSTALLER QUALIFICATIONS: PERSONNEL MUST BE TRAINED AND CERTIFIED BY MANUFACTURER FOR THE REMOVAL AND REINSTALLATION OF UNITS AND DEVICES REQUIRED FOR THIS PROJECT. INSTALLATION MUST BE BY PERSONNEL CERTIFIED BY NICET AS FIRE-ALARM LEVEL III TECHNICIAN.
 - NFPA CERTIFICATION: OBTAIN CERTIFICATION ACCORDING TO NFPA 72 BY AN NRTL (NATIONALLY RECOGNIZED TESTING LABORATORY).
 - PERFORM A FULL TEST OF THE EXISTING SYSTEM PRIOR TO STARTING WORK. DOCUMENT ANY EQUIPMENT OR COMPONENTS NOT FUNCTIONING PROPERLY.
 - INTERRUPTION OF EXISTING FIRE-ALARM SERVICE: DO NOT INTERRUPT FIRE-ALARM SERVICE TO FACILITIES OCCUPIED BY OWNER OR OTHERS UNLESS PERMITTED UNDER THE FOLLOWING CONDITIONS AND THEN ONLY AFTER ARRANGING TO PROVIDE TEMPORARY GUARD SERVICE ACCORDING TO REQUIREMENTS INDICATED:
 - NOTIFY OWNER NO FEWER THAN FOURTEEN DAYS IN ADVANCE OF PROPOSED INTERRUPTION OF FIRE-ALARM SERVICE.
 - DO NOT PROCEED WITH INTERRUPTION OF FIRE-ALARM SERVICE WITHOUT OWNER'S WRITTEN PERMISSION.
 - USE OF DEVICES DURING CONSTRUCTION: PROTECT DEVICES DURING CONSTRUCTION UNLESS DEVICES ARE PLACED IN SERVICE TO PROTECT THE FACILITY DURING CONSTRUCTION.
 - COMPLY WITH NFPA 72, NFPA 101, AND REQUIREMENTS OF AUTHORITIES HAVING JURISDICTION FOR INSTALLATION AND TESTING OF FIRE-ALARM EQUIPMENT. INSTALL ALL ELECTRICAL WIRING TO COMPLY WITH REQUIREMENTS IN NFPA 70 INCLUDING, BUT NOT LIMITED TO, ARTICLE 760, "FIRE ALARM SYSTEMS."
 - FIRE ALARM WIRING INSTALLATION: COMPLY WITH NECA 1 AND NFPA 72. FIRE ALARM CIRCUITS AND EQUIPMENT CONTROL WIRING ASSOCIATED WITH THE FIRE ALARM SYSTEM SHALL BE INSTALLED IN A DEDICATED PATHWAY SYSTEM. THIS SYSTEM SHALL NOT BE USED FOR ANY OTHER WIRE OR CABLE.
 - CABLES AND PATHWAYS USED FOR FIRE ALARM CIRCUITS, AND EQUIPMENT CONTROL WIRING ASSOCIATED WITH THE FIRE ALARM SYSTEM, MAY NOT CONTAIN ANY OTHER WIRE OR CABLE.
 - SIGNALING LINE CIRCUITS: POWER-LIMITED FIRE ALARM CABLES SHALL NOT BE INSTALLED IN THE SAME CABLE OR PATHWAY AS SIGNALING LINE CIRCUITS.
 - WIRING WITHIN ENCLOSURES: SEPARATE POWER-LIMITED AND NON-POWER-LIMITED CONDUCTORS AS RECOMMENDED BY MANUFACTURER. INSTALL CONDUCTORS PARALLEL WITH OR AT RIGHT ANGLES TO SIDES AND BACK OF THE ENCLOSURE. BUNDLE, LACE, AND TRAIN CONDUCTORS TO TERMINAL POINTS WITH NO EXCESS. CONNECT CONDUCTORS THAT ARE TERMINATED, SPLICED, OR INTERRUPTED IN ANY ENCLOSURE ASSOCIATED WITH THE FIRE ALARM SYSTEM TO TERMINAL BLOCKS. MARK EACH TERMINAL ACCORDING TO THE SYSTEM'S WIRING DIAGRAMS. MAKE ALL CONNECTIONS WITH APPROVED CRIMP-ON TERMINAL SPADE LUGS, PRESSURE-TYPE TERMINAL BLOCKS, OR PLUG CONNECTORS.
 - CABLE TAPS: USE NUMBERED TERMINAL STRIPS IN JUNCTION, PULL, AND OUTLET BOXES, CABINETS, OR EQUIPMENT ENCLOSURES WHERE CIRCUIT CONNECTIONS ARE MADE.
 - COLOR CODING: COLOR CODE FIRE ALARM CONDUCTORS DIFFERENTLY FROM THE NORMAL BUILDING POWER WIRING. USE ONE COLOR CODE FOR ALARM CIRCUIT WIRING AND ANOTHER FOR SUPERVISORY CIRCUITS. COLOR CODE AUDIBLE ALARM-INDICATING CIRCUITS DIFFERENTLY FROM ALARM-INITIATING CIRCUITS. USE DIFFERENT COLORS FOR VISIBLE ALARM-INDICATING DEVICES. PAINT FIRE ALARM SYSTEM JUNCTION BOXES AND COVERS RED.
 - FIELD TESTS SHALL BE WITNESSED BY AUTHORITIES HAVING JURISDICTION.
 - AFTER INSTALLING SALVAGED DEVICES, PERFORM THE FOLLOWING TESTS AND INSPECTIONS WITH THE ASSISTANCE OF A FACTORY-AUTHORIZED SERVICE REPRESENTATIVE:
 - VISUAL INSPECTION: CONDUCT VISUAL INSPECTION PRIOR TO TESTING. INSPECTION SHALL BE BASED ON COMPLETED RECORD DRAWINGS AND SYSTEM DOCUMENTATION THAT IS REQUIRED BY THE "COMPLETION DOCUMENTS, PREPARATION" TABLE IN THE "DOCUMENTATION" SECTION OF THE "FUNDAMENTALS" CHAPTER IN NFPA 72. COMPLY WITH THE "VISUAL INSPECTION FREQUENCIES" TABLE IN THE "INSPECTION" SECTION OF THE "INSPECTION, TESTING AND MAINTENANCE" CHAPTER IN NFPA 72; RETAIN THE "INITIAL/REACCEPTANCE" COLUMN AND LIST ONLY THE INSTALLED COMPONENTS.
 - SYSTEM TESTING: COMPLY WITH THE "TEST METHODS" TABLE IN THE "TESTING" SECTION OF THE "INSPECTION, TESTING AND MAINTENANCE" CHAPTER IN NFPA 72.
 - FIRE-ALARM SYSTEM WILL BE CONSIDERED DEFECTIVE IF IT DOES NOT PASS TESTS AND INSPECTIONS.

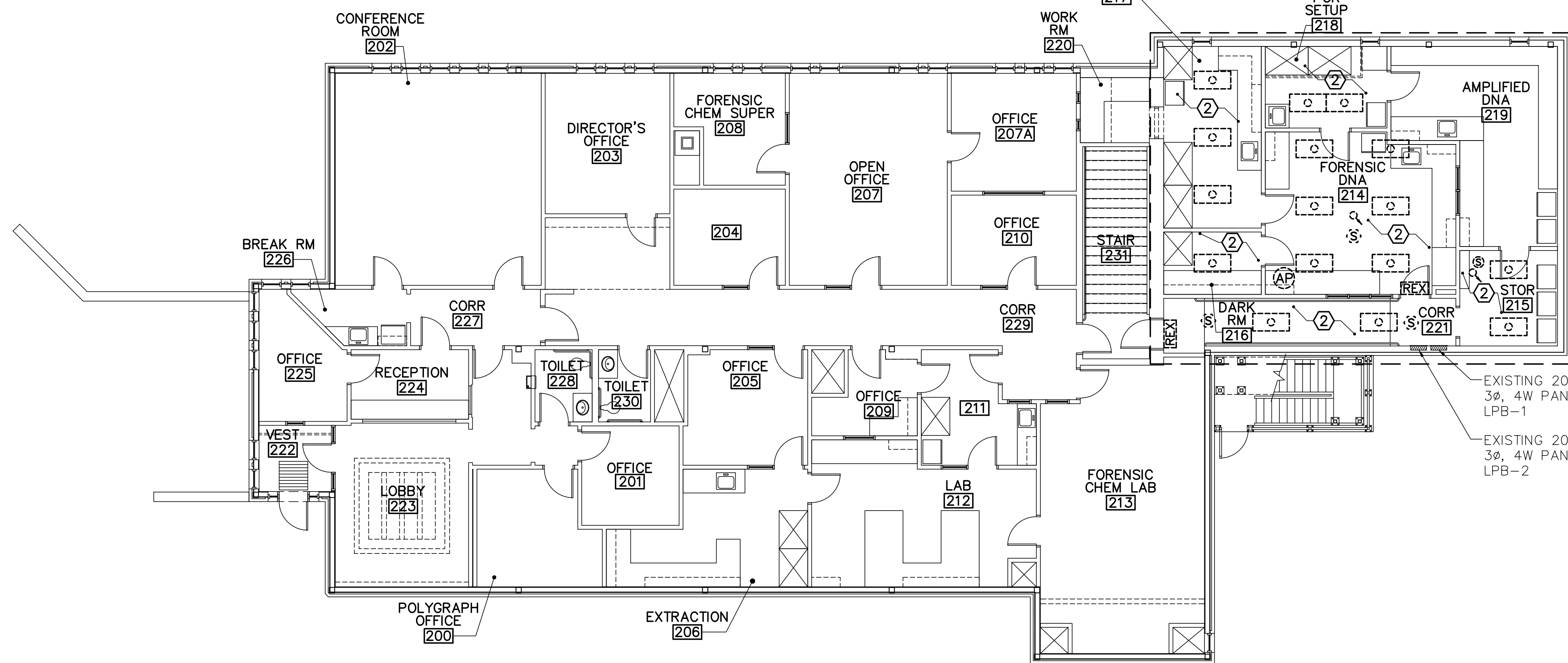
INTRUSION DETECTION AND ACCESS CONTROL SYSTEMS NOTES

- INTRUSION DETECTION INSTALLATION AND TESTING
 - INSTALLER QUALIFICATIONS: PERSONNEL SHALL BE TRAINED AND CERTIFIED BY MANUFACTURER FOR REMOVAL AND RE-INSTALLATION OF UNITS REQUIRED FOR THIS PROJECT.
 - PERFORM A FULL TEST OF THE EXISTING SYSTEM PRIOR TO STARTING WORK. DOCUMENT ANY EQUIPMENT OR COMPONENTS NOT FUNCTIONING PROPERLY.
 - INTERRUPTION OF EXISTING INTRUSION DETECTION AND ACCESS CONTROL SYSTEMS: DO NOT INTERRUPT INTRUSION DETECTION SYSTEM TO FACILITIES OCCUPIED BY OWNER OR OTHERS UNLESS PERMITTED UNDER THE FOLLOWING CONDITIONS AND THEN ONLY AFTER ARRANGING TO PROVIDE TEMPORARY GUARD SERVICE ACCORDING TO REQUIREMENTS INDICATED:
 - NOTIFY OWNER NO FEWER THAN FOURTEEN DAYS IN ADVANCE OF PROPOSED INTERRUPTION OF SYSTEMS.
 - DO NOT PROCEED WITH INTERRUPTION OF SYSTEM WITHOUT OWNER'S WRITTEN PERMISSION.
 - AFTER INSTALLING SALVAGED DEVICES, PERFORM TESTS AND INSPECTIONS WITH THE ASSISTANCE OF A FACTORY-AUTHORIZED SERVICE REPRESENTATIVE.
 - SYSTEM WILL BE CONSIDERED DEFECTIVE IF IT DOES NOT PASS TESTS AND INSPECTIONS.

					STATE OF MAINE BGS
			TITLE MAINE STATE POLICE CRIME LAB. HVAC UPGRADES LOCATION AUGUSTA, MAINE BGS PROJECT # PT3376		
			TITLE THIS DWG: ELECTRICAL SYMBOLS, ABBREVIATIONS, AND GENERAL NOTES		
			DRAWN BY: BPD CHECK BY: DCL		
			NO. DATE DESCRIPTION BY		E-001
			REVISIONS		SHEET NO.
			NO. DATE		14 of 16
			DATE 03/01/24		231 Main Street, Biddeford, Maine 04005 207.283.0193



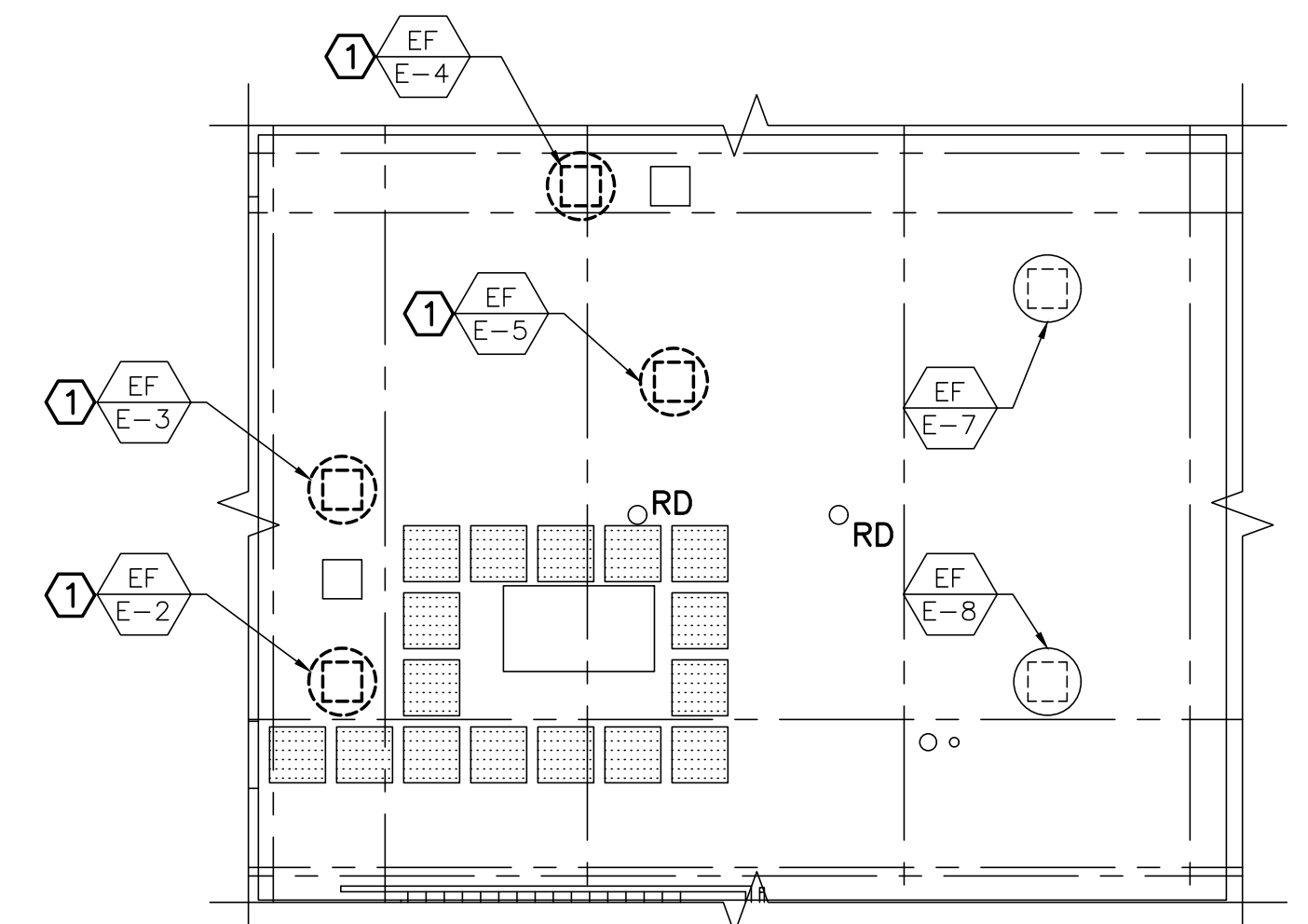
1 FIRST FLOOR ELECTRICAL REMOVALS PLAN
ED101 SCALE: 1/8"=1'-0"



2 SECOND FLOOR ELECTRICAL REMOVALS PLAN
ED101 SCALE: 1/8"=1'-0"

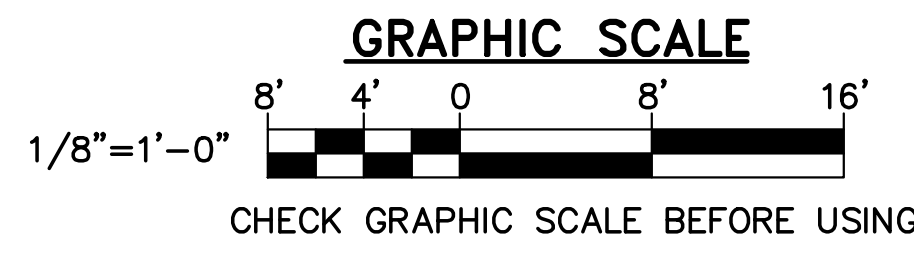


- REMOVAL KEYNOTES (THIS SHEET ONLY)**
- ① REMOVE EXISTING FAN AND ASSOCIATED WIRING AND CONDUIT BACK TO THE SOURCE. FOR BIDDING PURPOSES, ASSUME A CIRCUIT LENGTH OF 125'. UPDATE PANELBOARD'S CIRCUIT DIRECTORY FOR REMOVED CIRCUITS.
 - ② REMOVE EXISTING CEILING MOUNTED ELECTRICAL ITEMS FOR THE REMOVAL AND INSTALLATION OF MECHANICAL DUCTWORK. REFER TO MECHANICAL DRAWINGS. SALVAGE EXISTING CEILING MOUNTED ITEMS FOR REUSE. PROTECT EXISTING WIRING AND CONDUIT DURING CONSTRUCTION.

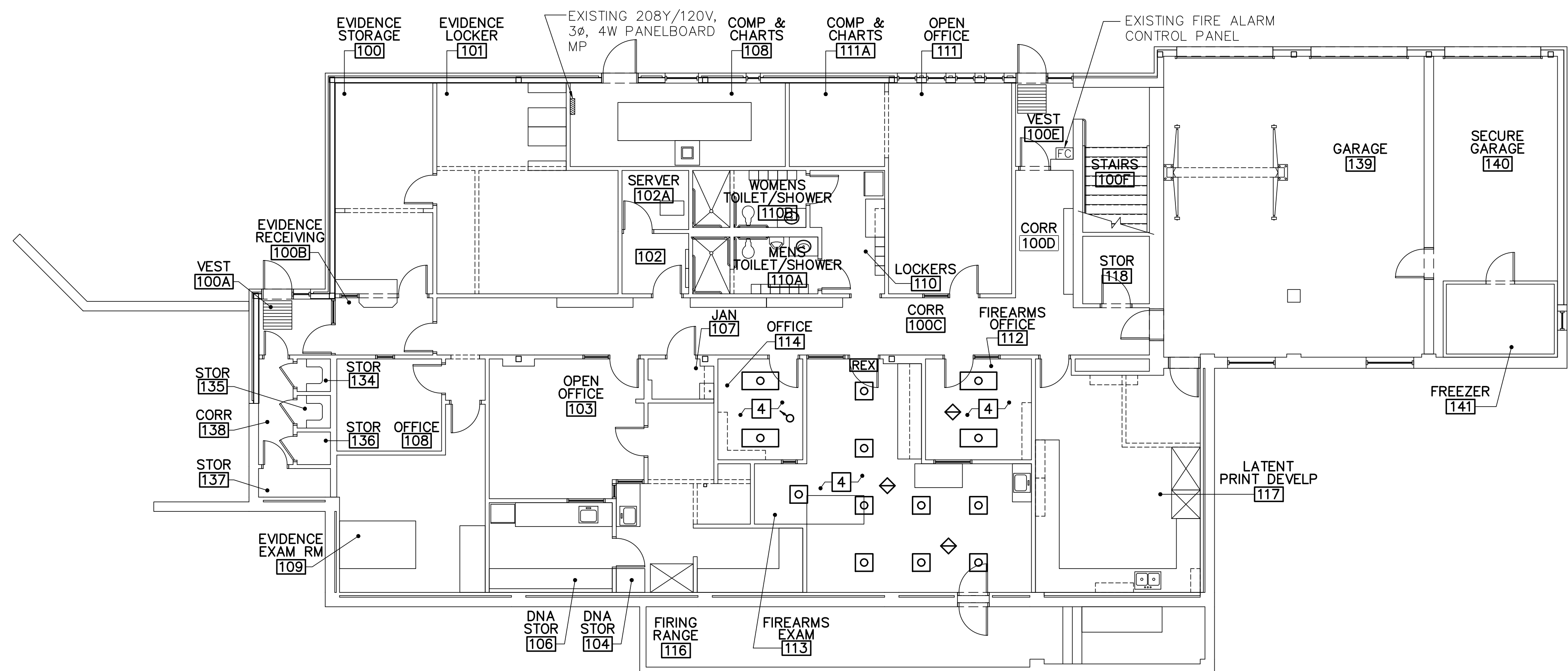


3 ROOF ELECTRICAL REMOVALS
ED101 SCALE: 1/8"=1'-0"

3
ED101
(ROOF PLAN ABOVE)

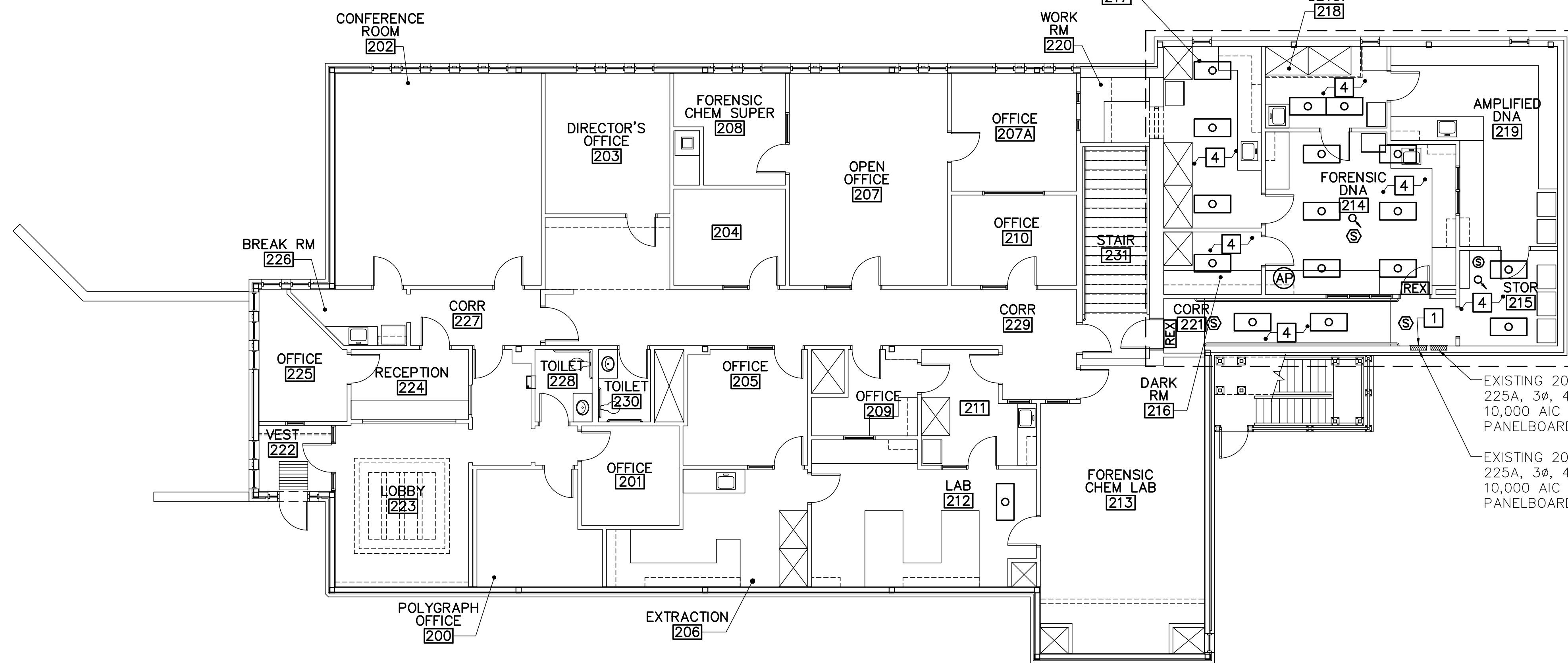


			STATE OF MAINE													
			BGS													
<table border="1"> <tr> <th>NO.</th> <th>DATE</th> <th>DESCRIPTION</th> <th>BY</th> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> <tr> <td colspan="4" style="text-align: center;">REVISIONS</td> </tr> </table>			NO.	DATE	DESCRIPTION	BY					REVISIONS				TITLE MAINE STATE POLICE CRIME LAB, HVAC UPGRADES LOCATION AUGUSTA, MAINE BGS PROJECT # PT3376	
			NO.	DATE	DESCRIPTION	BY										
REVISIONS																
DRAWN BY: BPD CHECK BY: DCL DATE: 03/01/24			TITLE THIS DWG: ELECTRICAL REMOVALS PLANS OAK POINT ASSOCIATES DRAWING NO. ED101 SHEET NO. 15 of 16													

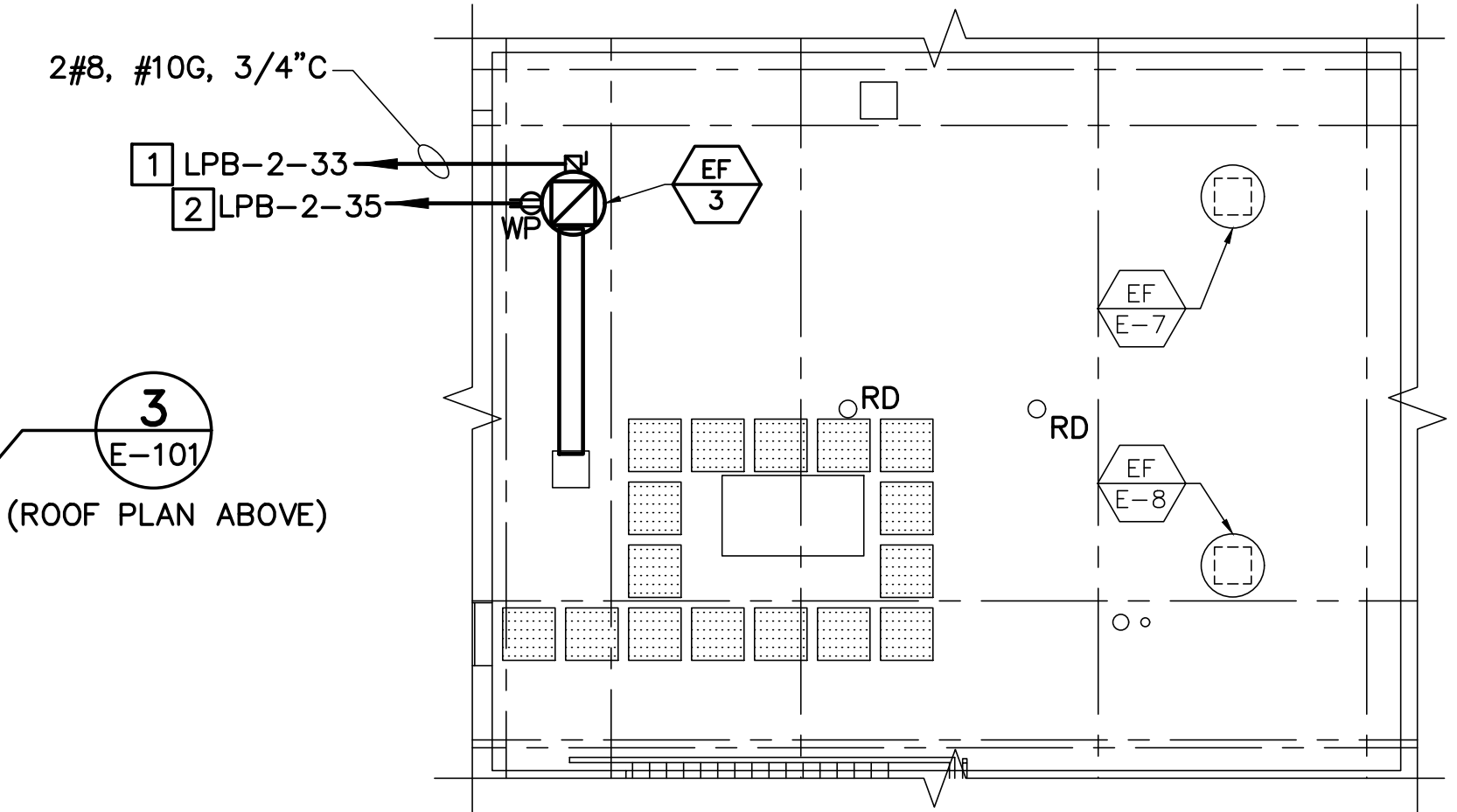


1 FIRST FLOOR ELECTRICAL PLAN
 E-101 SCALE: 1/8"=1'-0"
 PLAN NORTH

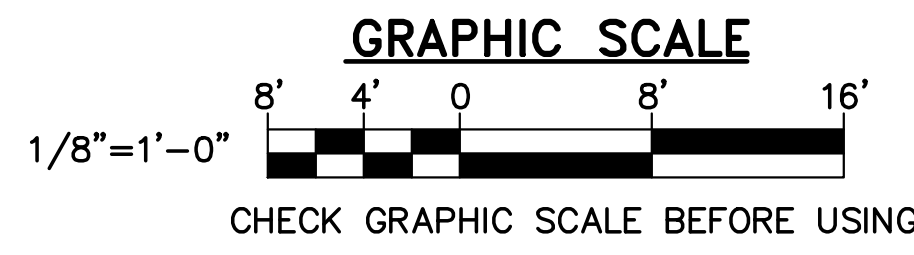
- KEYNOTES (THIS SHEET ONLY)**
- 1 PROVIDE 35A, 1P CIRCUIT BREAKER IN EXISTING PANELBOARD LPB-2 TO FEED EF-3.
 - 2 PROVIDE 20A, 1P CIRCUIT BREAKER IN EXISTING PANELBOARD LPB-2.
 - 3 EXISTING SQUARE D NQOD442L225 SERIES E2 PANELBOARD. UPDATE CIRCUIT DIRECTORY FOR PROVIDED CIRCUITS.
 - 4 INSTALL SALVAGED CEILING MOUNTED ELECTRICAL ITEMS. CONNECT TO EXISTING WIRING AND CONDUIT.



2 SECOND FLOOR ELECTRICAL PLAN
 E-101 SCALE: 1/8"=1'-0"
 PLAN NORTH



3 ROOF ELECTRICAL PLAN
 E-101 SCALE: 1/8"=1'-0"
 PLAN NORTH



			STATE OF MAINE BGS	
			TITLE MAINE STATE POLICE CRIME LAB. HVAC UPGRADES LOCATION AUGUSTA, MAINE BGS PROJECT # PT3376	
TITLE THIS DWG ELECTRICAL PLANS				
DRAWN BY: BPD CHECK BY: DCL			E-101 SHEET NO.	
NO. DATE DESCRIPTION BY			DATE 03/01/24	
REVISIONS			16 of 16	