

DORTHEA DIX BUILDING K VENTILATION UPGRADES

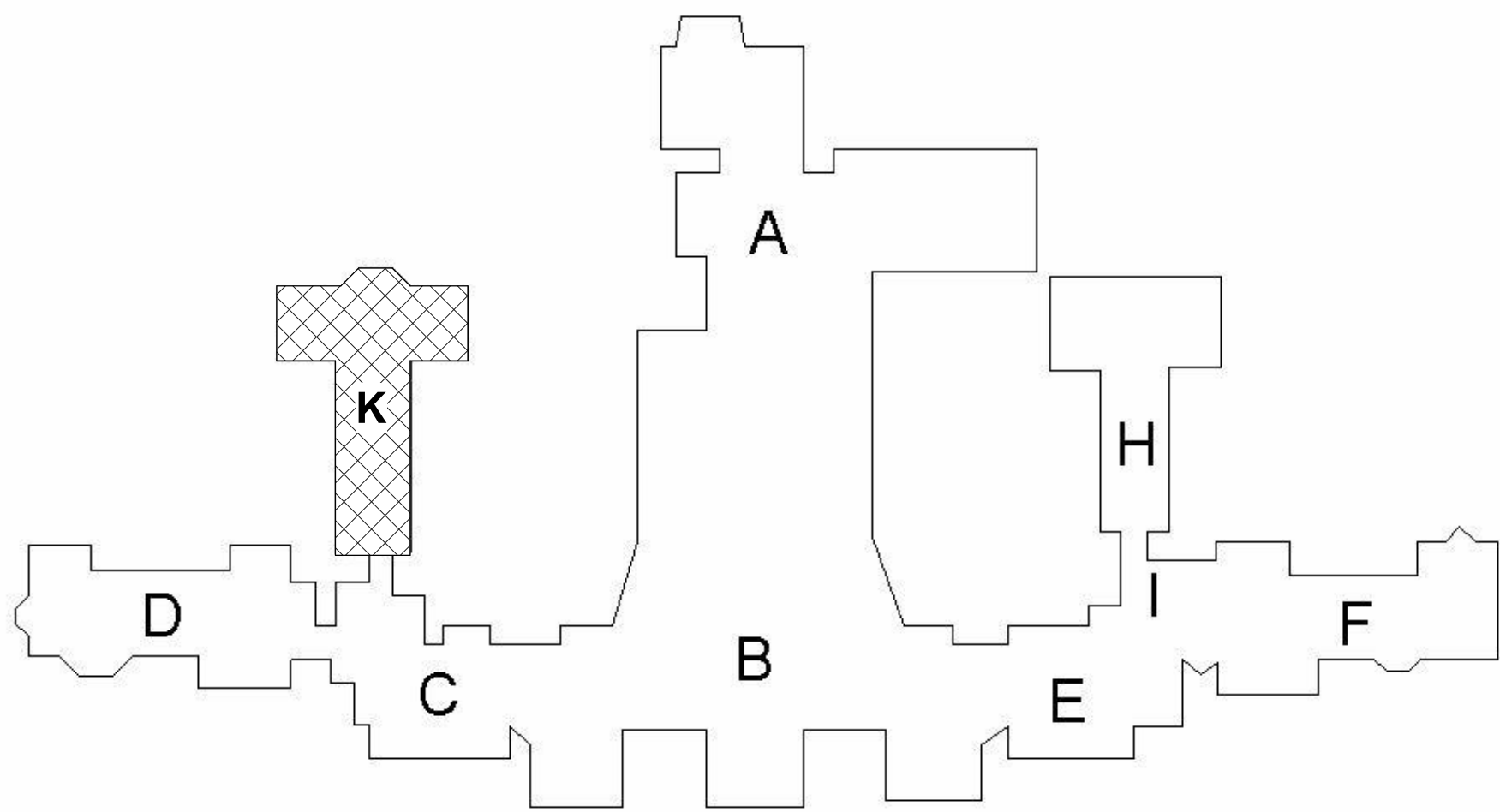
BANGOR, MAINE



CITY OF BANGOR MAINE



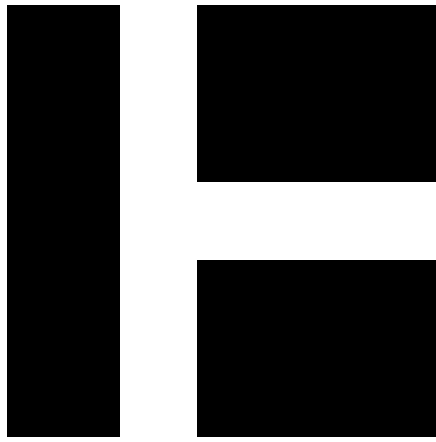
DORTHEA DIX CAMPUS



CONSTRUCTION DOCUMENTS
APRIL 19, 2019

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DORTHEA DIX
BUILDING K
VENTILATION UPGRADES

BANGOR, MAINE

Harriman Project No.		18421
Key Plan	Proj North	

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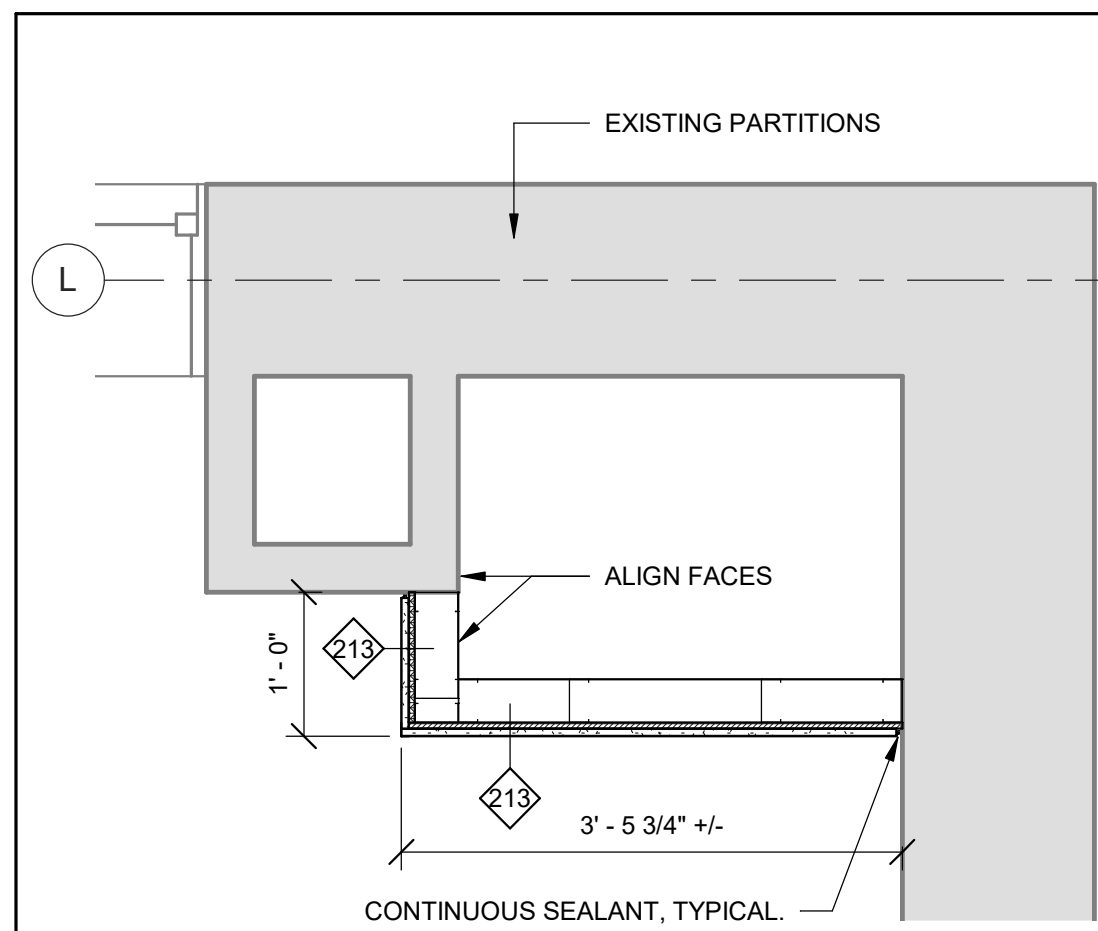
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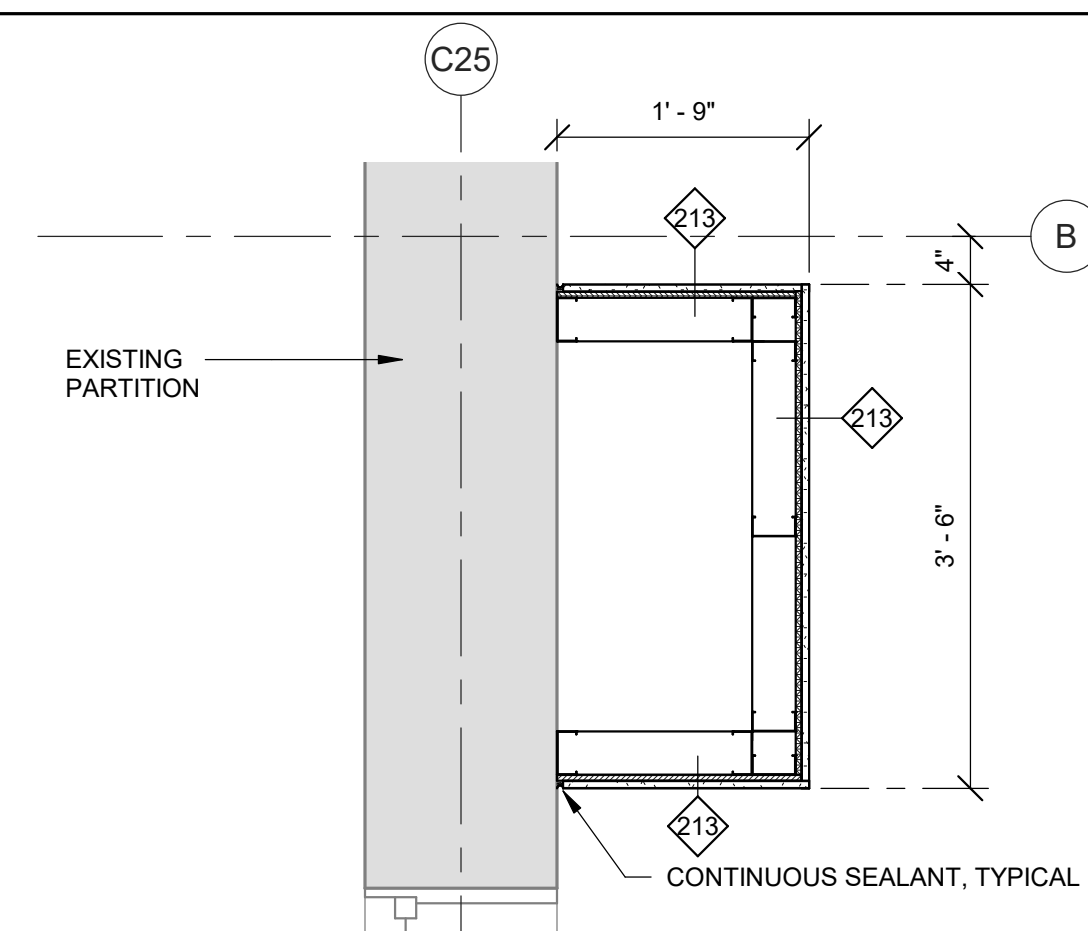
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COVER SHEET

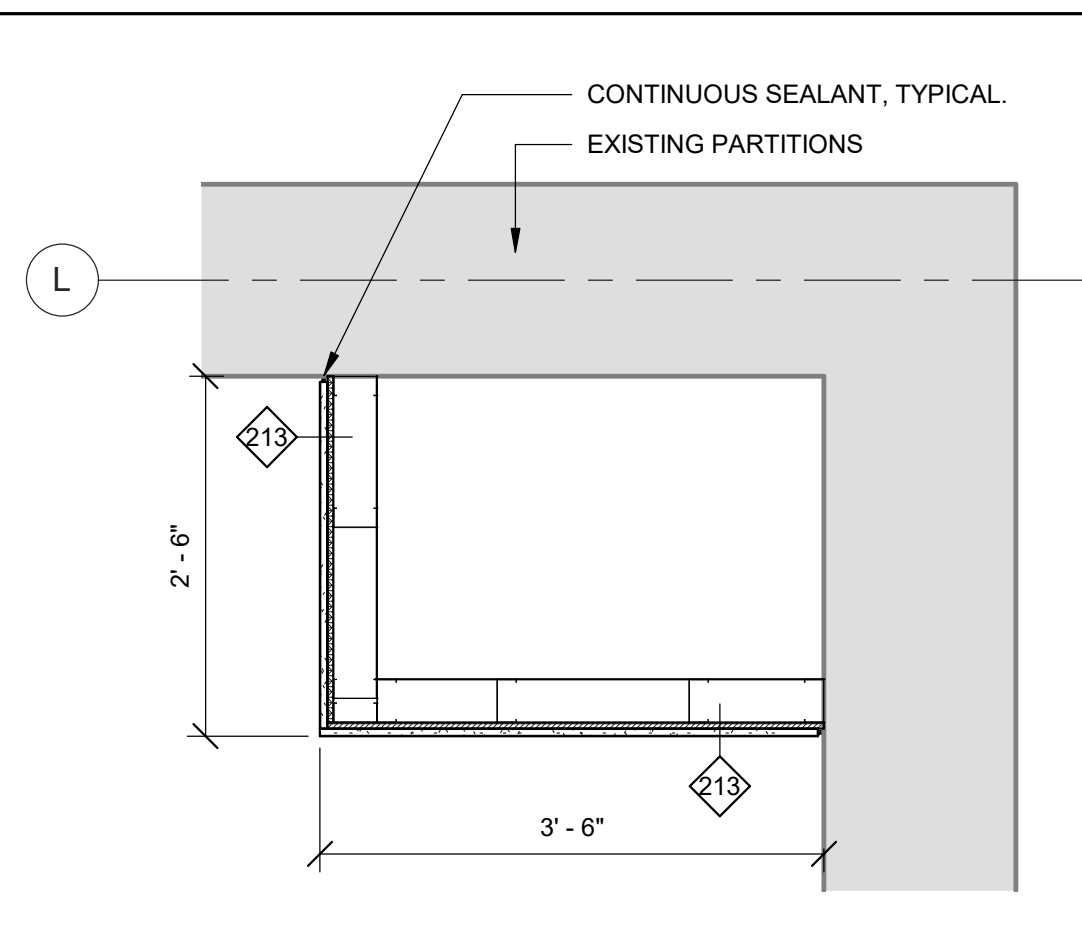
G00.1



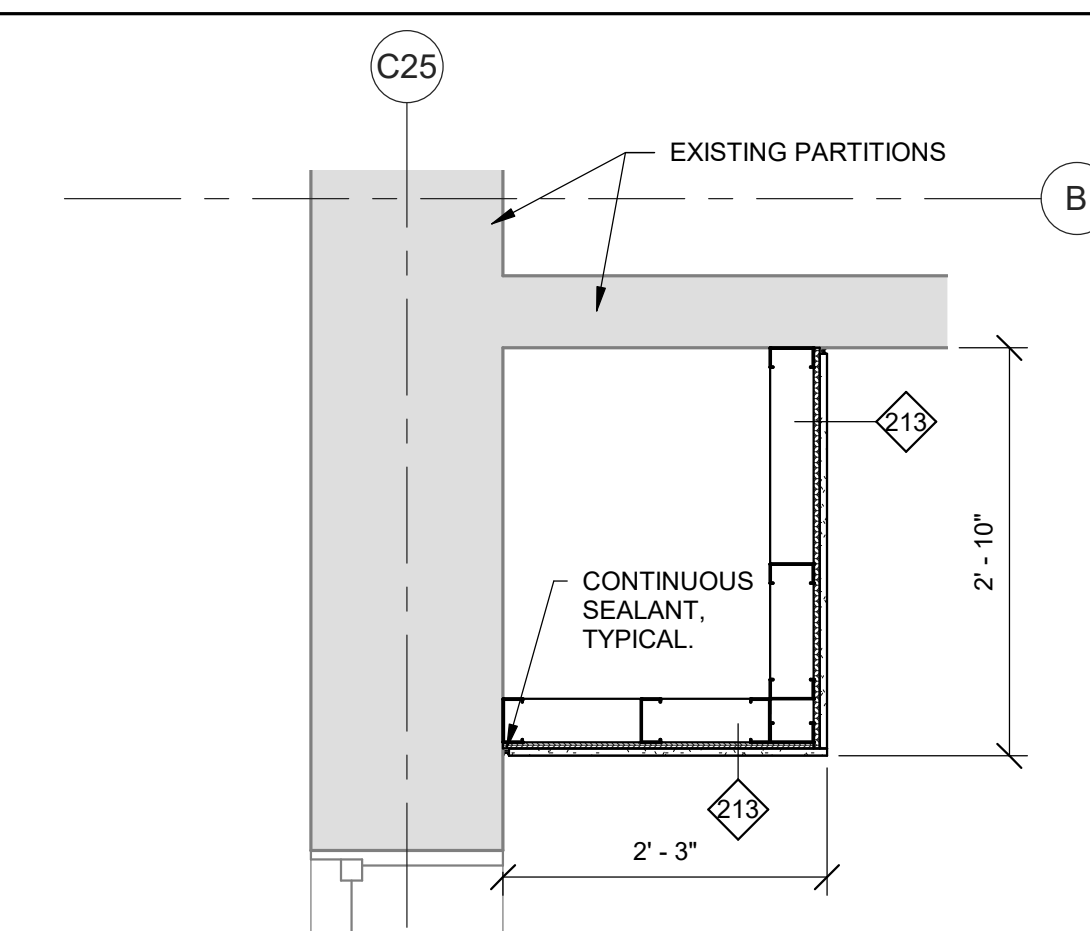
D1 SECOND FLOOR PLAN DETAIL
SCALE: 3/4" = 1'-0"



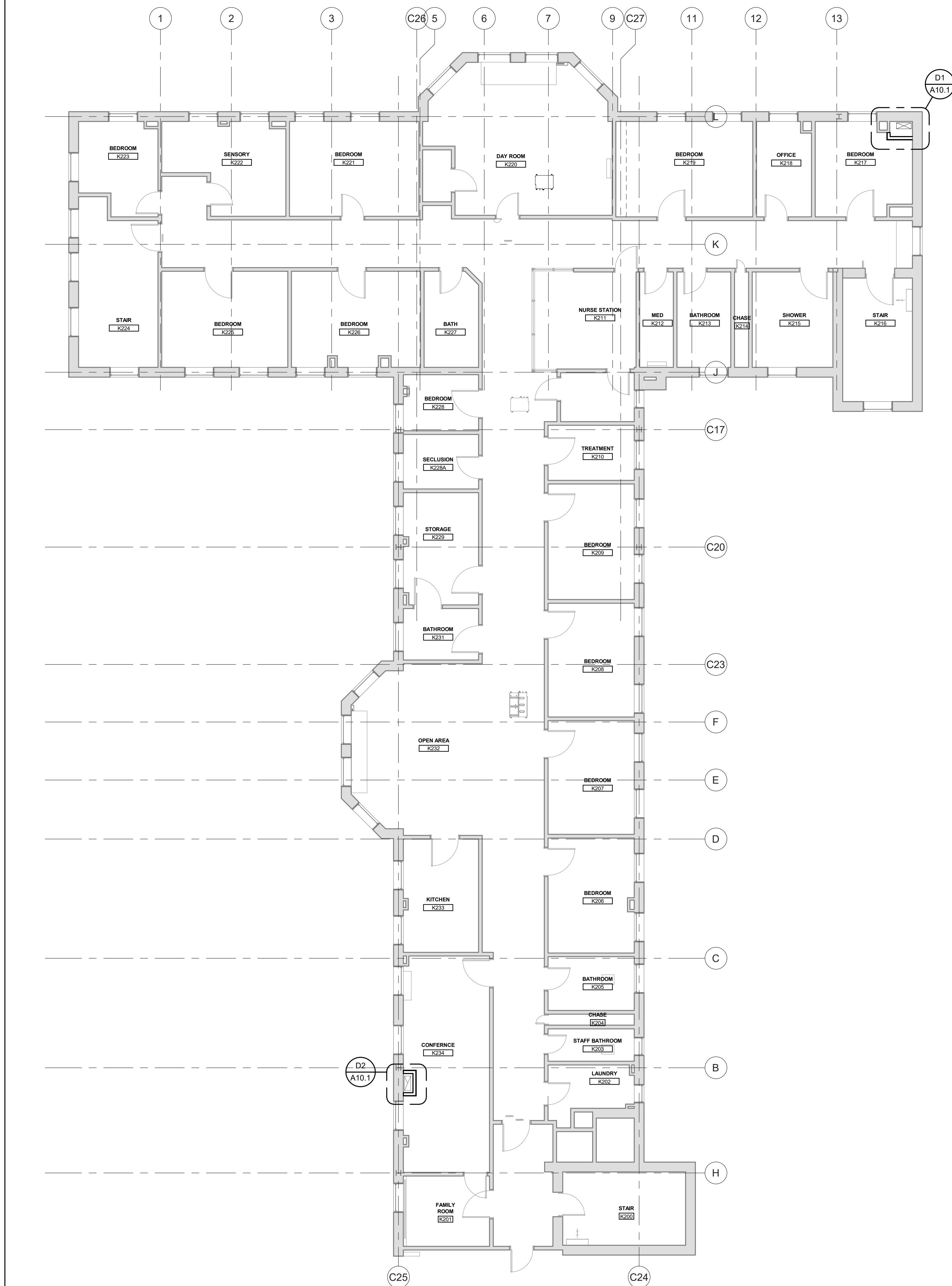
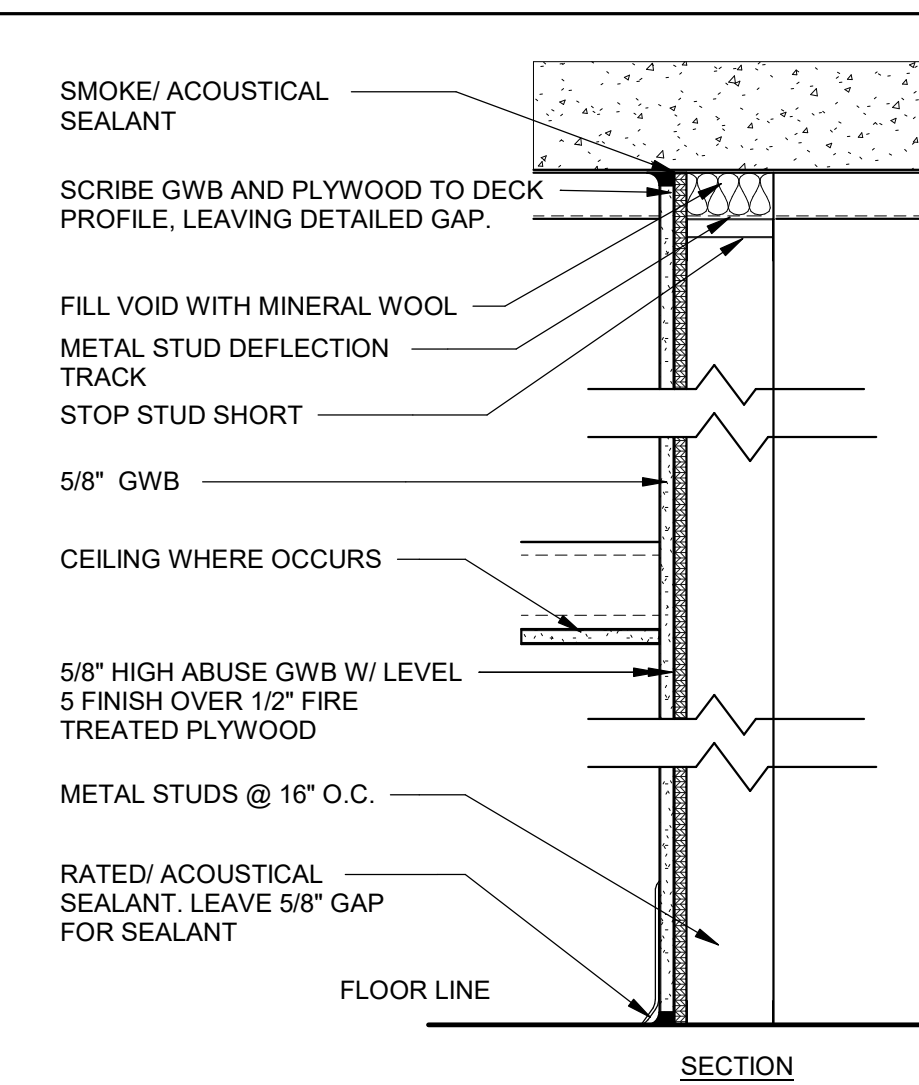
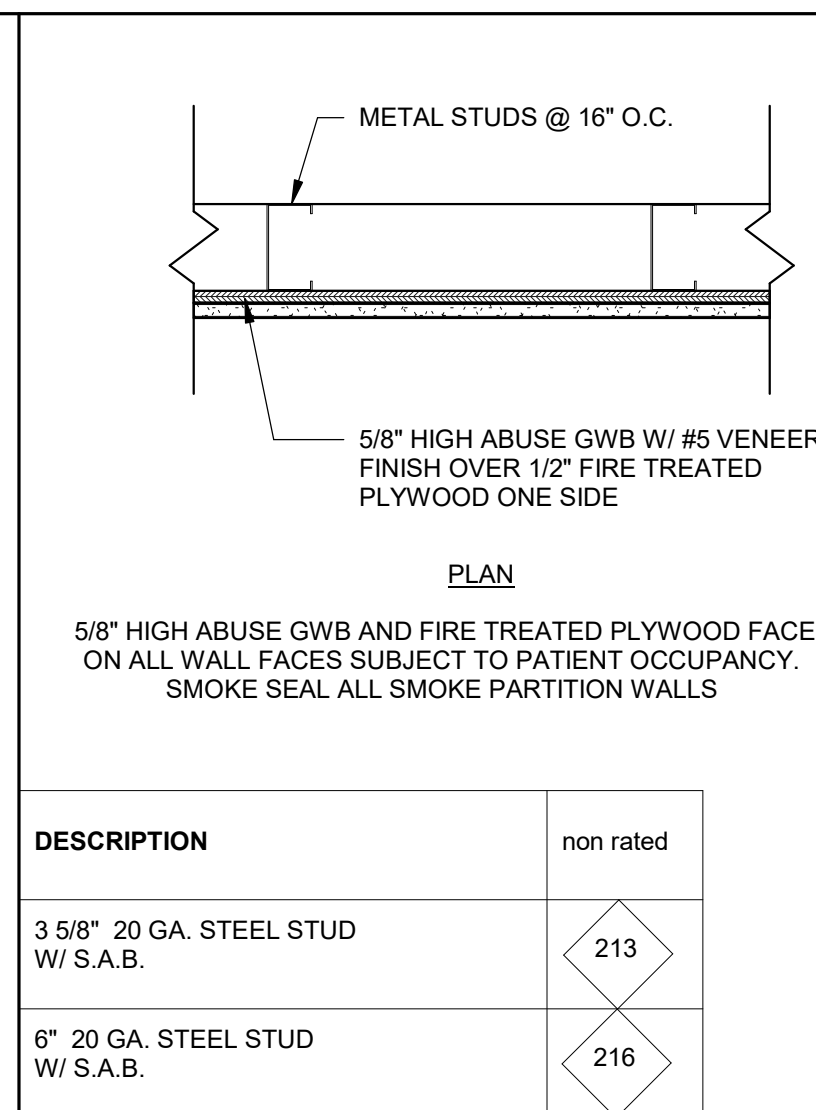
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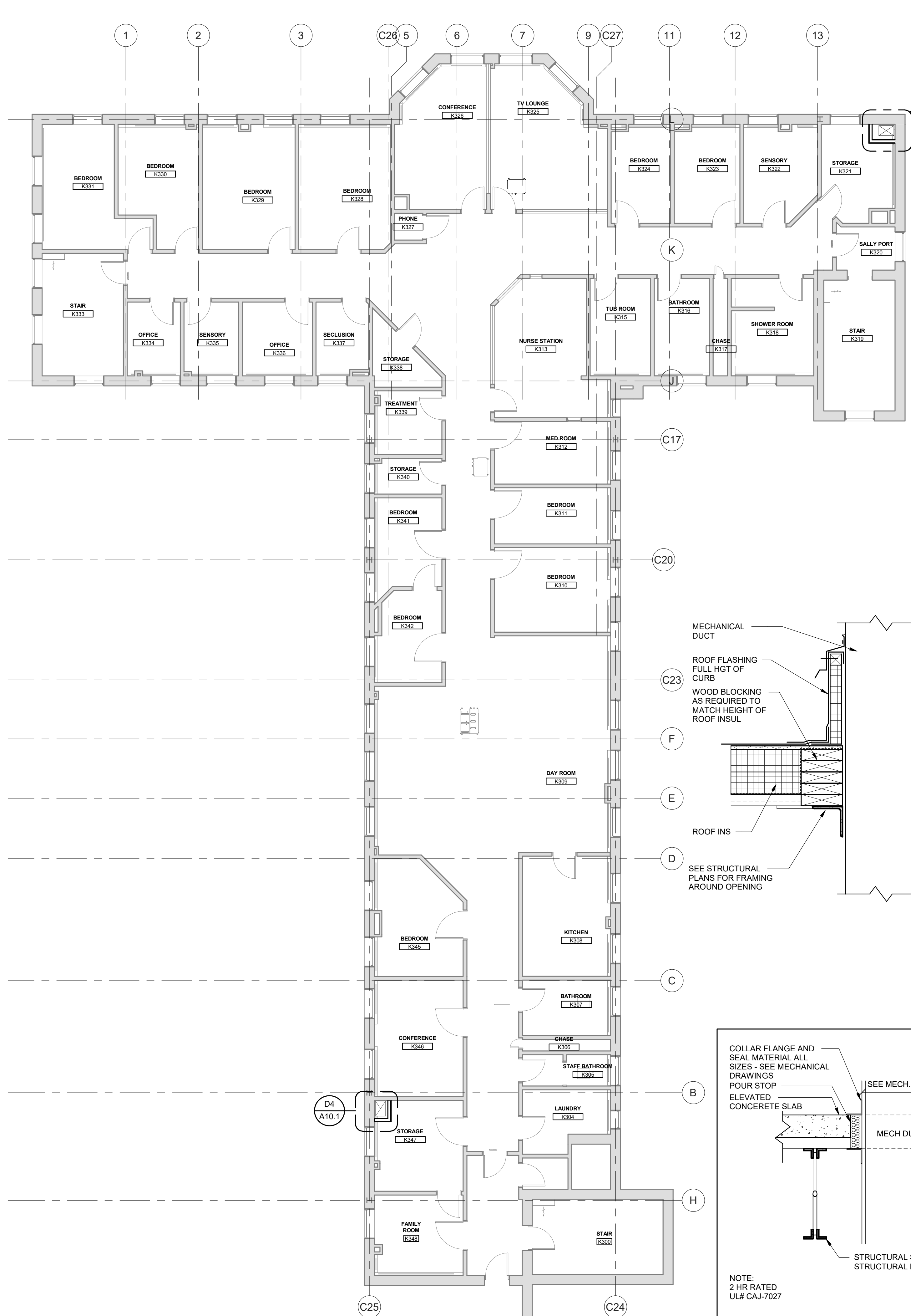
D3 THIRD FLOOR PLAN DETAIL
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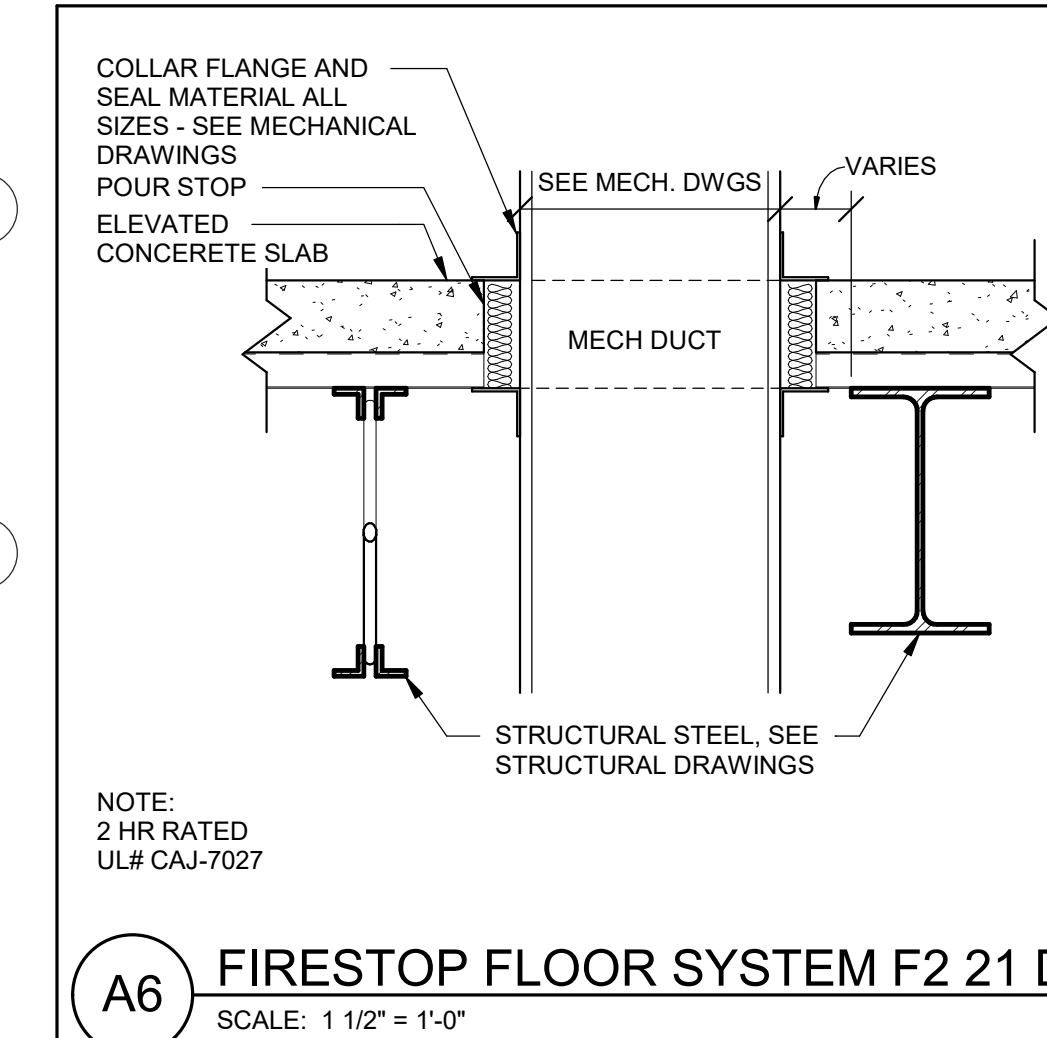
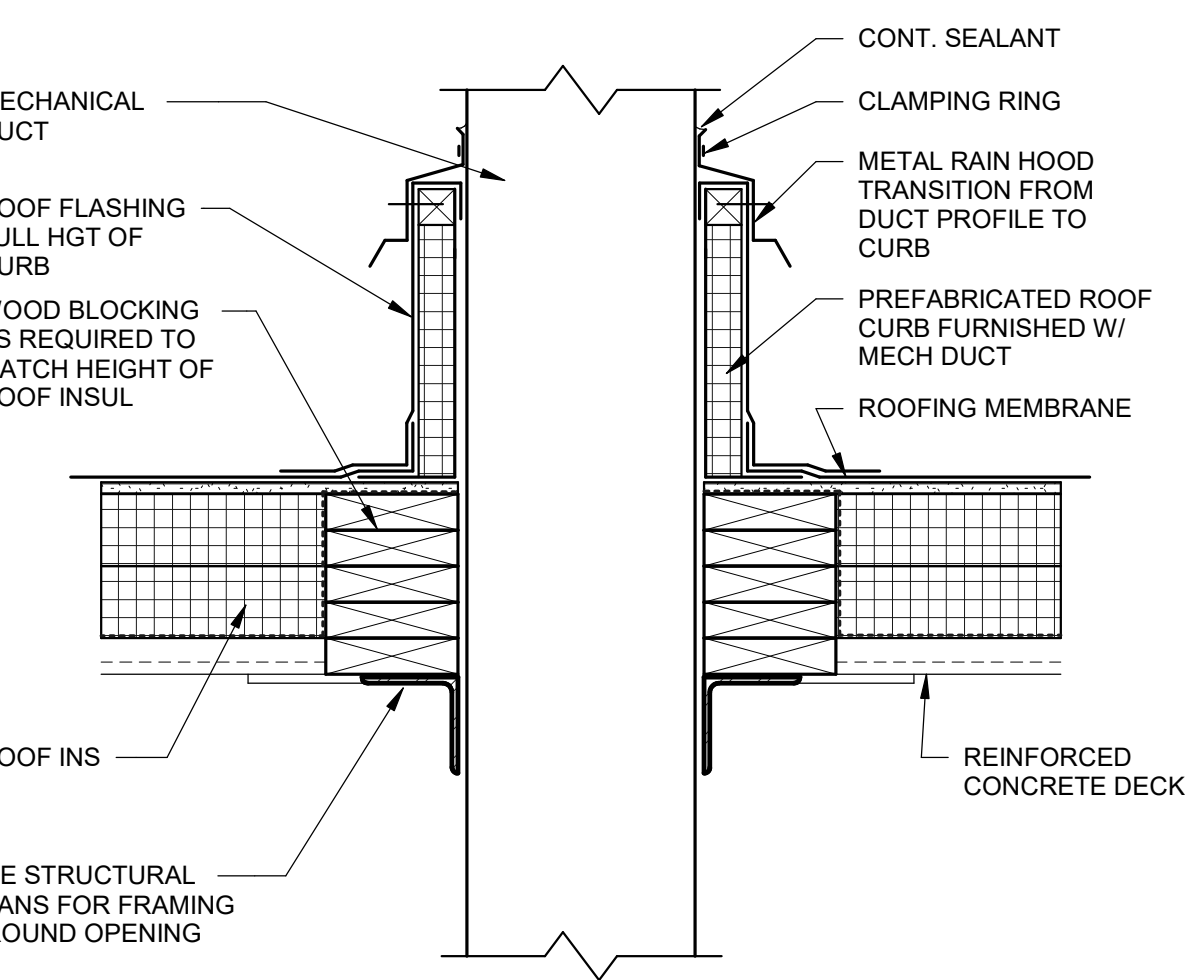
D4 THIRD FLOOR PLAN DETAIL
SCALE: 3/4" = 1'-0"



A1 BUILDING K SECOND FLOOR PLAN
SCALE: 1/8" = 1'-0"



A4 BUILDING K THIRD FLOOR PLAN
SCALE: 1/8" = 1'-0"

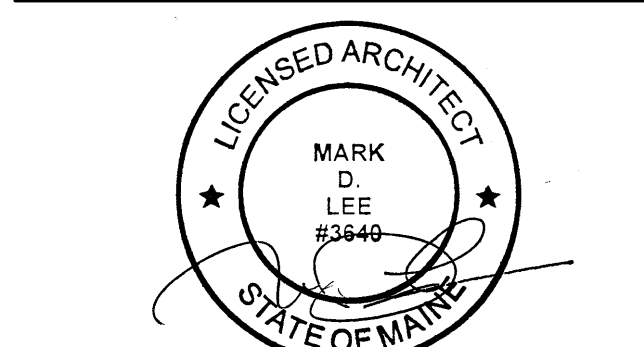


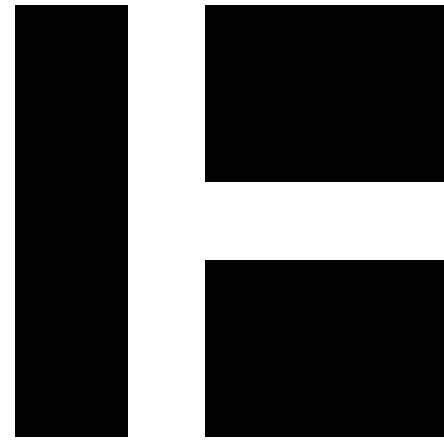
A6 FIRESTOP FLOOR SYSTEM F2 21 DETAIL
SCALE: 1 1/2" = 1'-0"

- GENERAL NOTES**
- DIMENSIONS ARE FACE OF FINISH OF PARTITION UNLESS OTHERWISE NOTED.
 - REFER TO A10.1 PARTITION TYPES FOR CONSTRUCTION DESCRIPTIONS.
 - ALL PARTITIONS (U.N.O.) EXTEND TO THE UNDERSIDE OF THE EXISTING STRUCTURE ABOVE. SEAL PERIMETER OF ALL NEW WALLS WITH CONTINUOUS SEALANT FOR SMOKE AND SOUND CONTROL.
 - PAINT ALL EXISTING WALLS DISTURBED BY NEW WORK TO NEAREST CORNER. MATCH EXISTING PAINT COLOR.
 - PROVIDE NEW RESILIENT BASE ON ALL NEW WALLS TO MATCH EXISTING BASE.

CONSTRUCTION DOCUMENTS
APRIL 19, 2019

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Harriman Project No.

18421

Key Plan

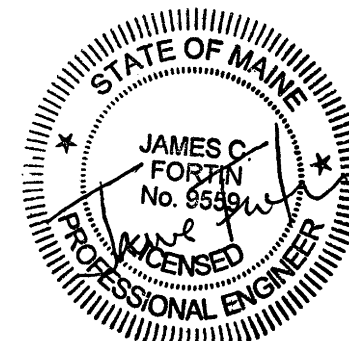
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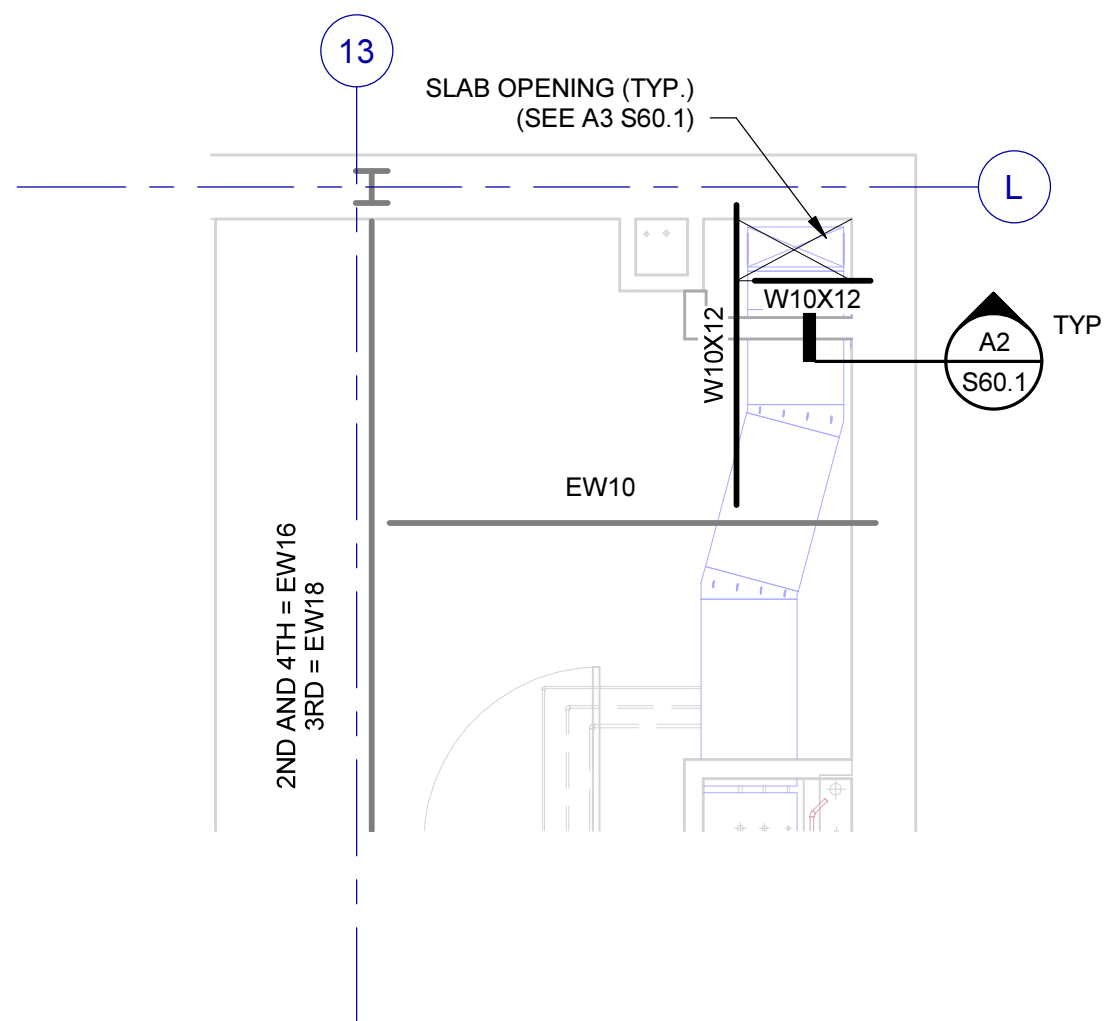
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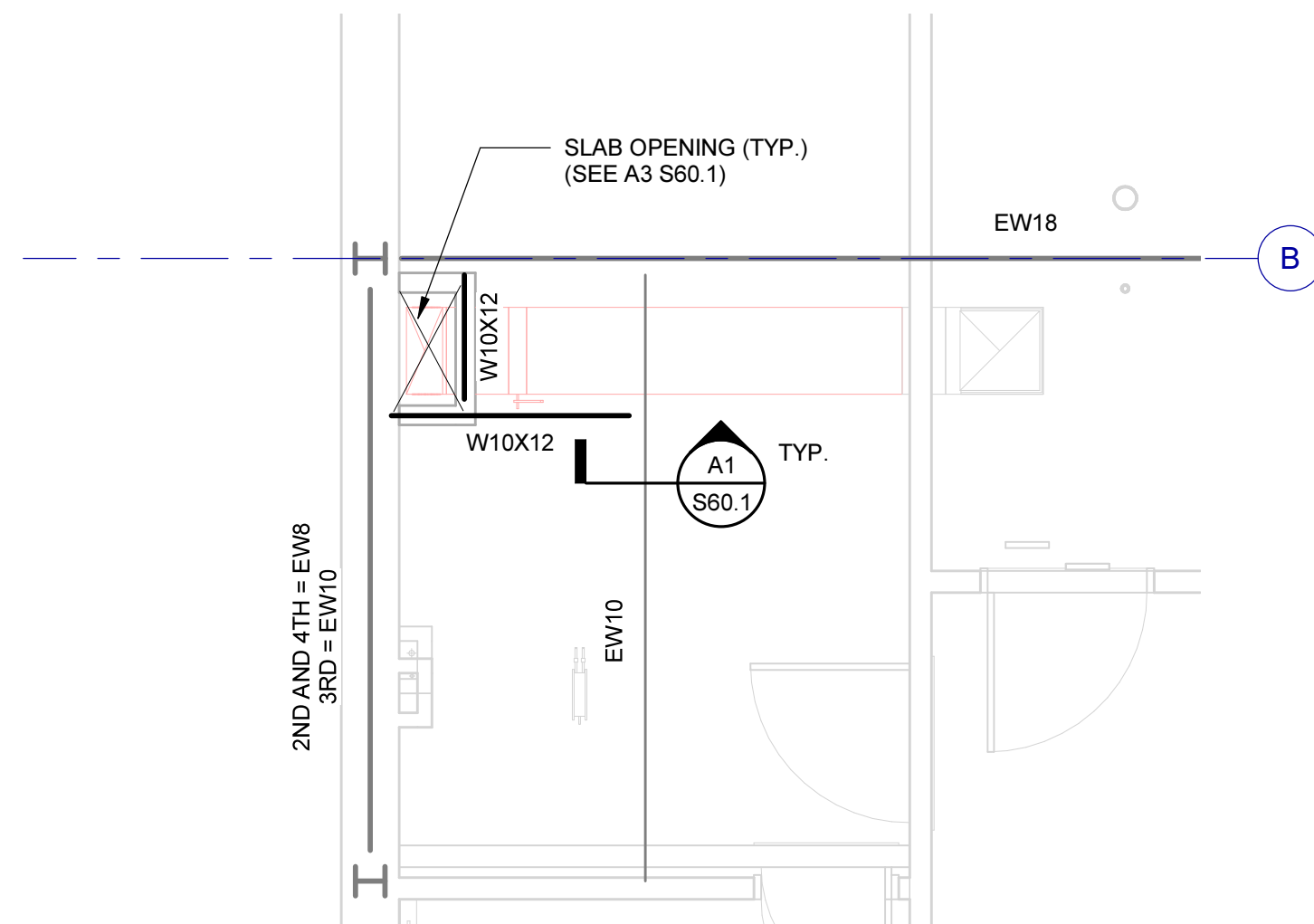
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FRAMING PLAN

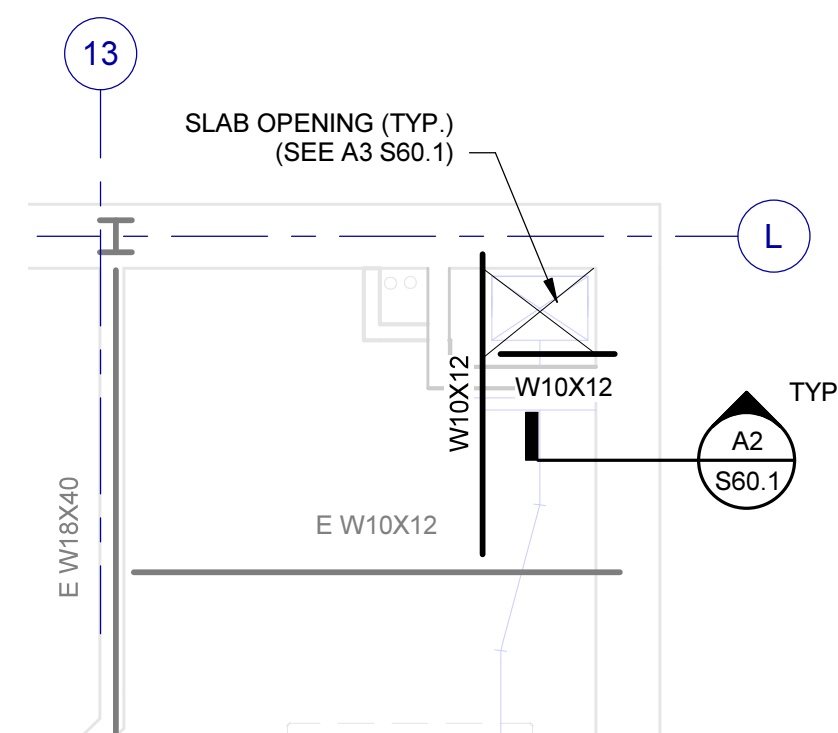
S20.1



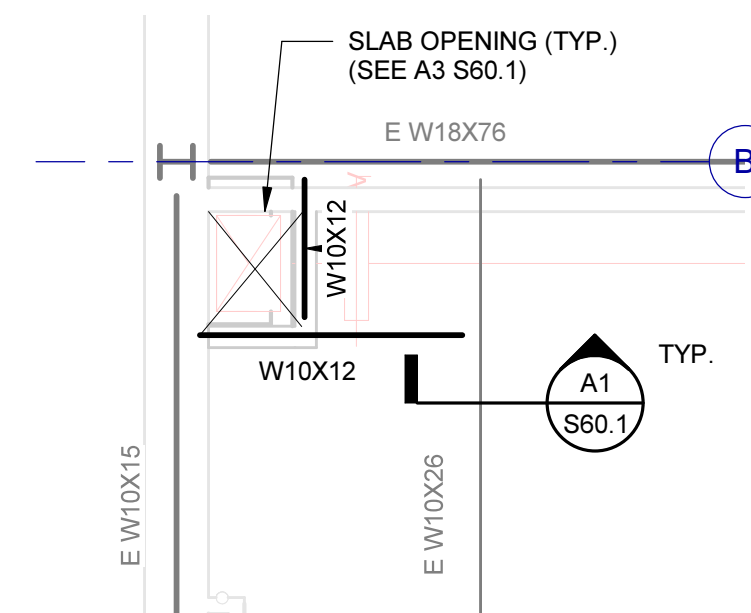
D1 SECOND FLOOR FRAMING
SCALE: 1/4" = 1'-0"



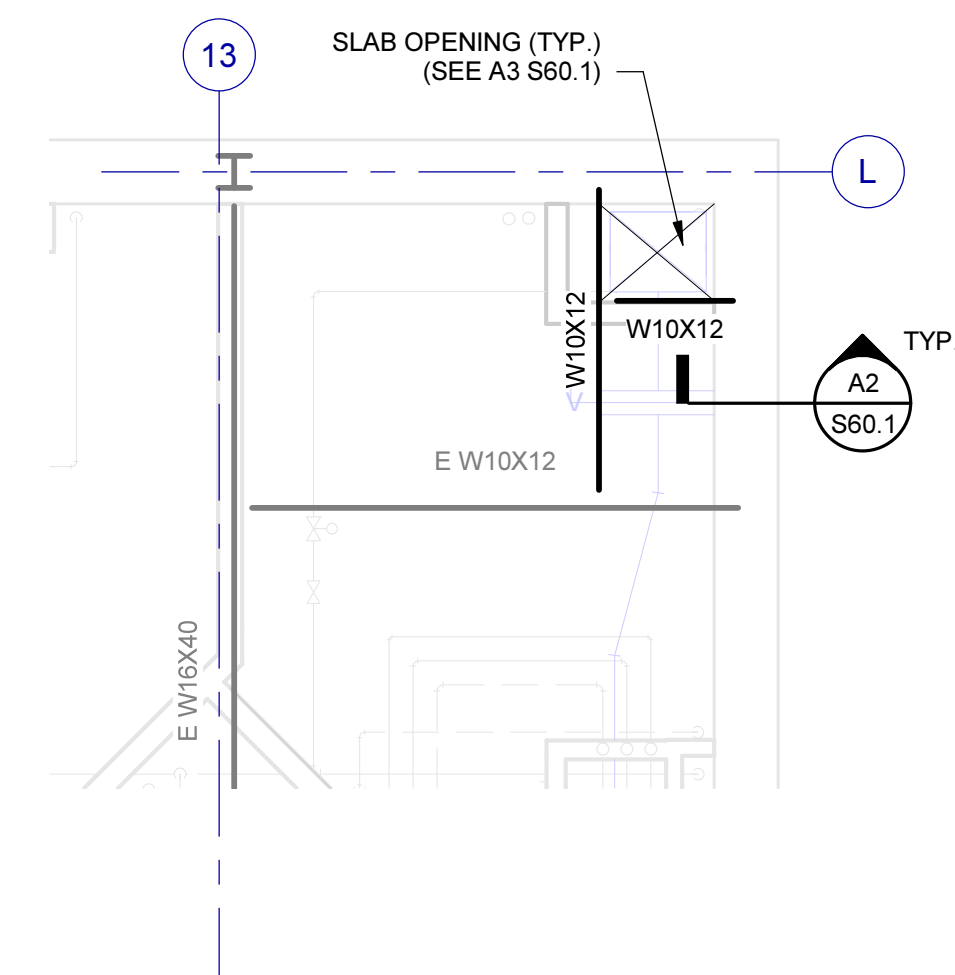
D2 SECOND FLOOR FRAMING
SCALE: 1/4" = 1'-0"



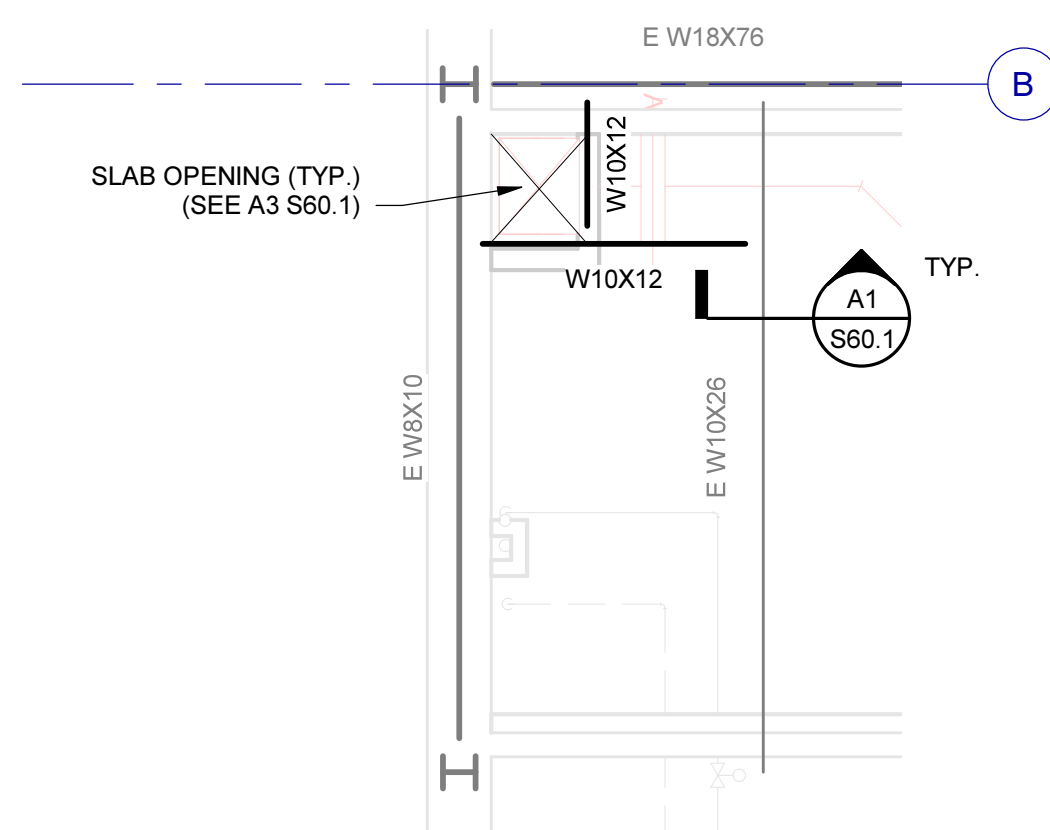
D3 THIRD FLOOR FRAMING
SCALE: 1/4" = 1'-0"



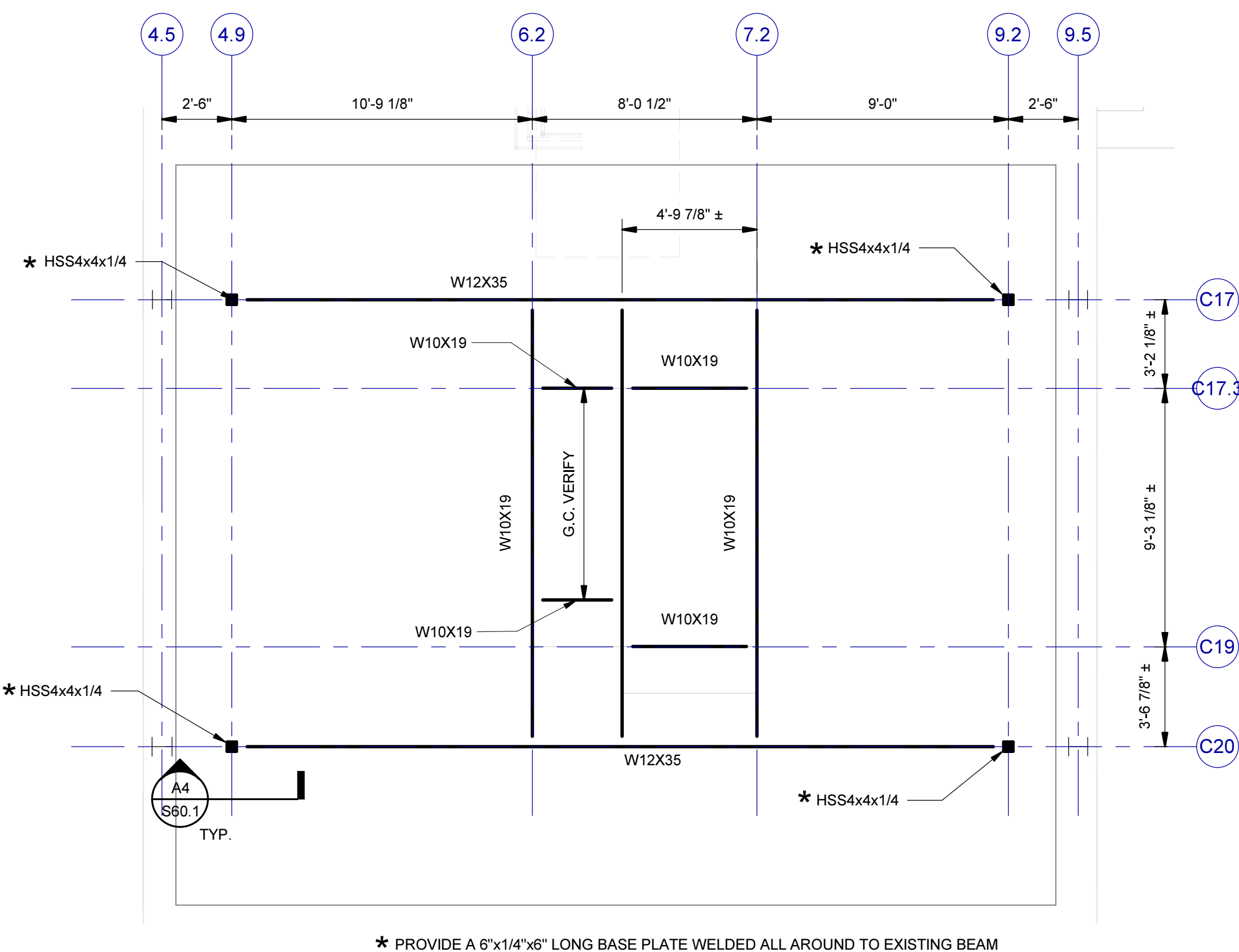
D4 THIRD FLOOR FRAMING
SCALE: 1/4" = 1'-0"



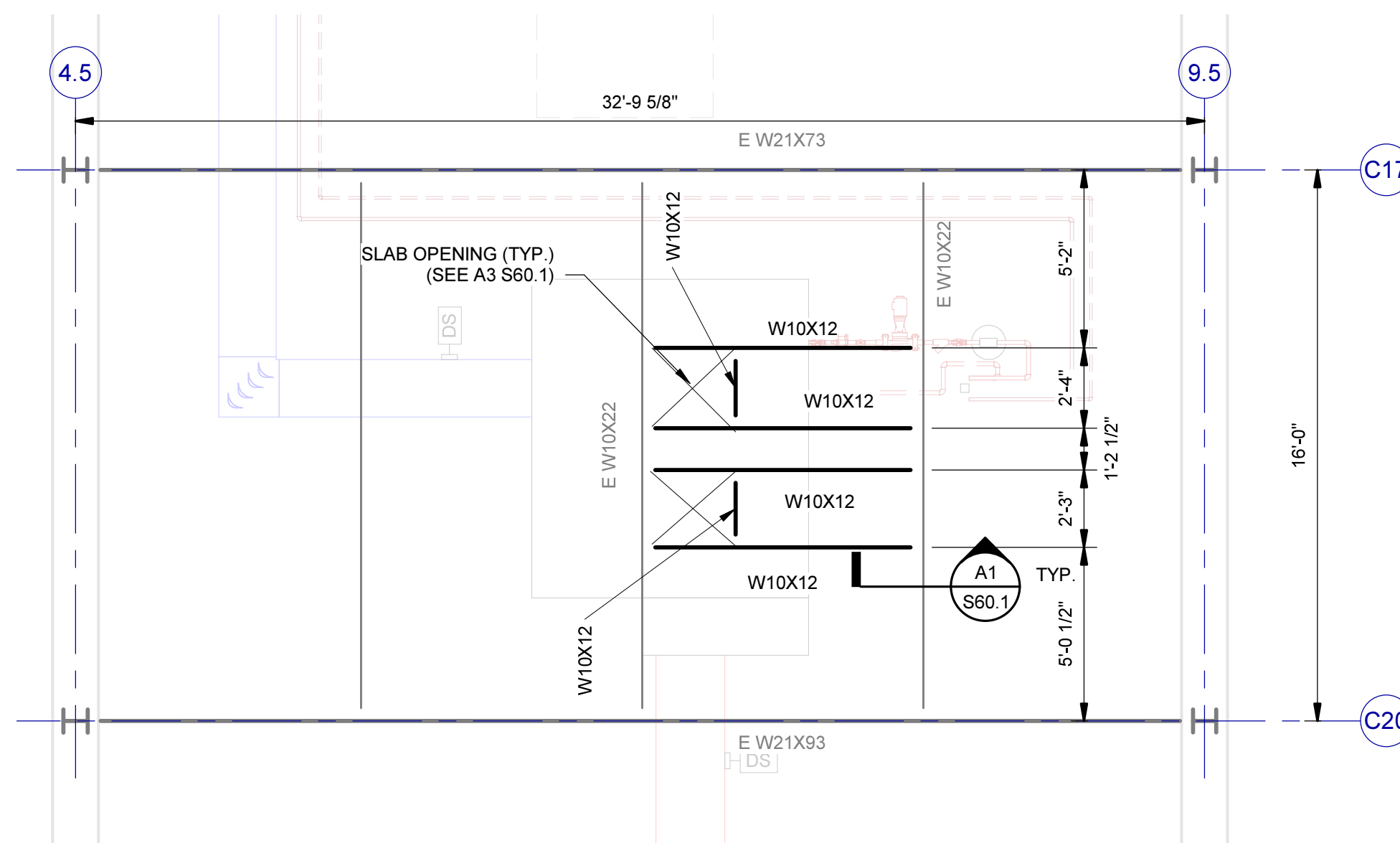
C1 FORTH FLOOR FRAMING
SCALE: 1/4" = 1'-0"



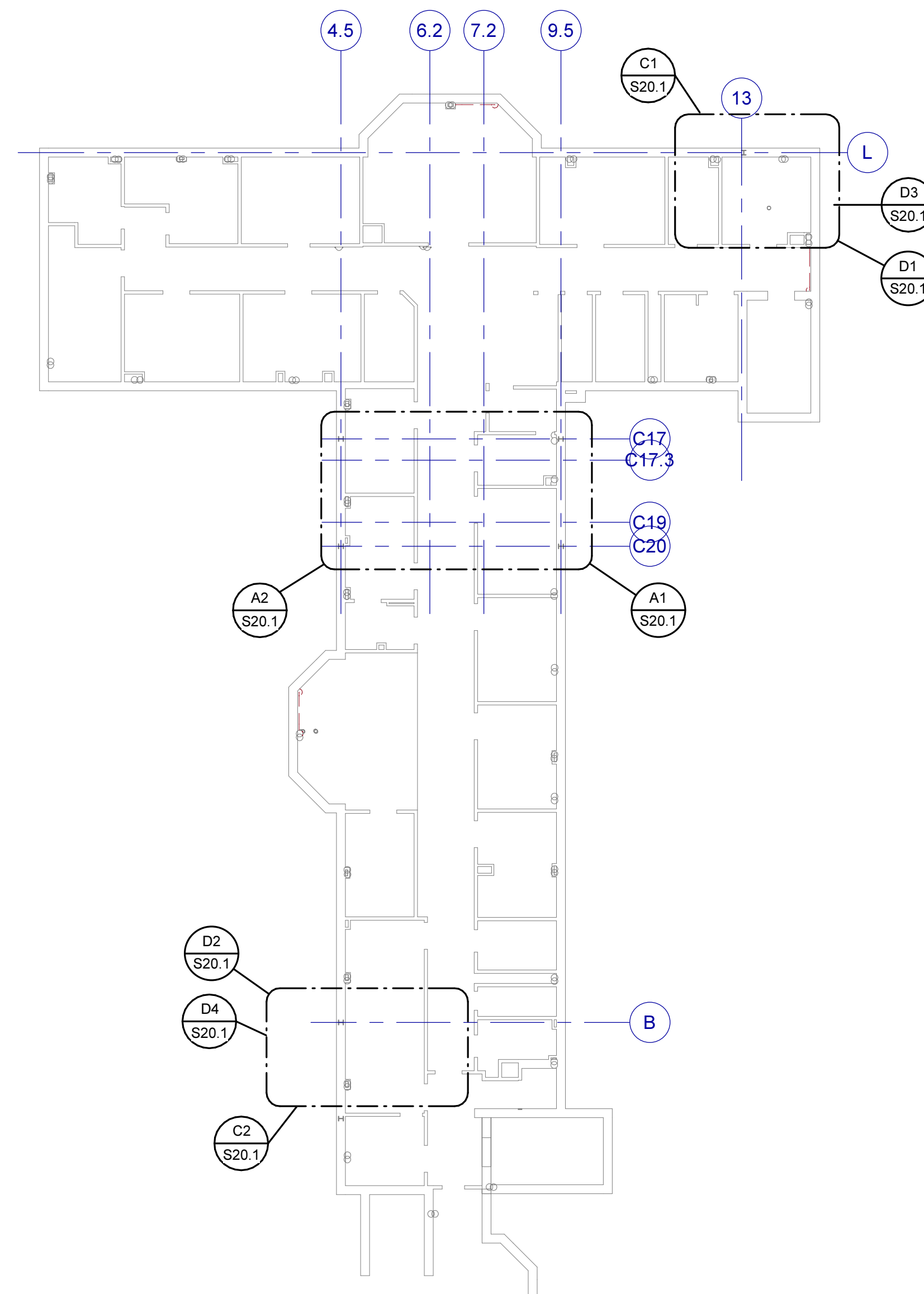
C2 FORTH FLOOR FRAMING
SCALE: 1/4" = 1'-0"



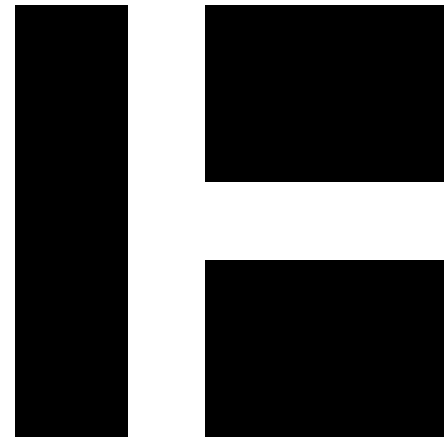
A1 PLATFORM FRAMING
SCALE: 1/4" = 1'-0"



A2 ROOF FRAMING
SCALE: 1/4" = 1'-0"



A4 KEY PLAN
NO SCALE



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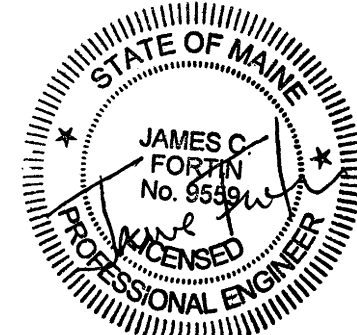
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FRAMING NOTES AND
DETAILS

S60.1

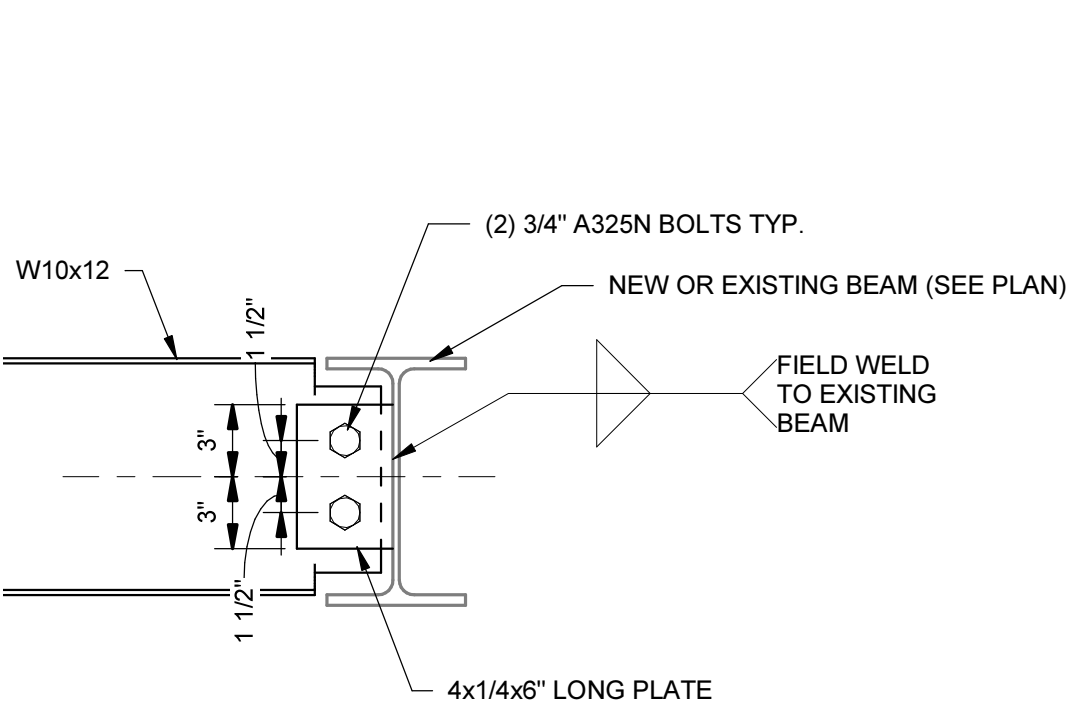
- STRUCTURAL STEEL
1. STRUCTURAL STEEL SHALL BE ASTM A992, GR. 50 (F_y=50 KSI).
 2. STRUCTURAL TUBING TO BE ASTM B500, GR46 (F_y=46 KSI).
 3. MISC. STEEL PLATES AND ANGLES SHALL BE ASTM A36 (F_y=36KSI).
 4. ALL EXTERIOR STEEL INCLUDING CONNECTION PLATES AND BOLTS SHALL BE HOT DIPPED GALVANIZED.
 5. VERIFY WITH MECHANICAL DRAWINGS FOR LOCATION OF DUCTS, PIPING, ETC. THROUGH FLOOR AND ROOF CONSTRUCTION.

- MISCELLANEOUS
1. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS BEFORE PROCEEDING WITH THE WORK.
 2. CONTRACTOR SHALL REPORT ANY VARIATIONS FOUND AT THE SITE BEFORE PROCEEDING WITH THAT PART OF THE WORK.

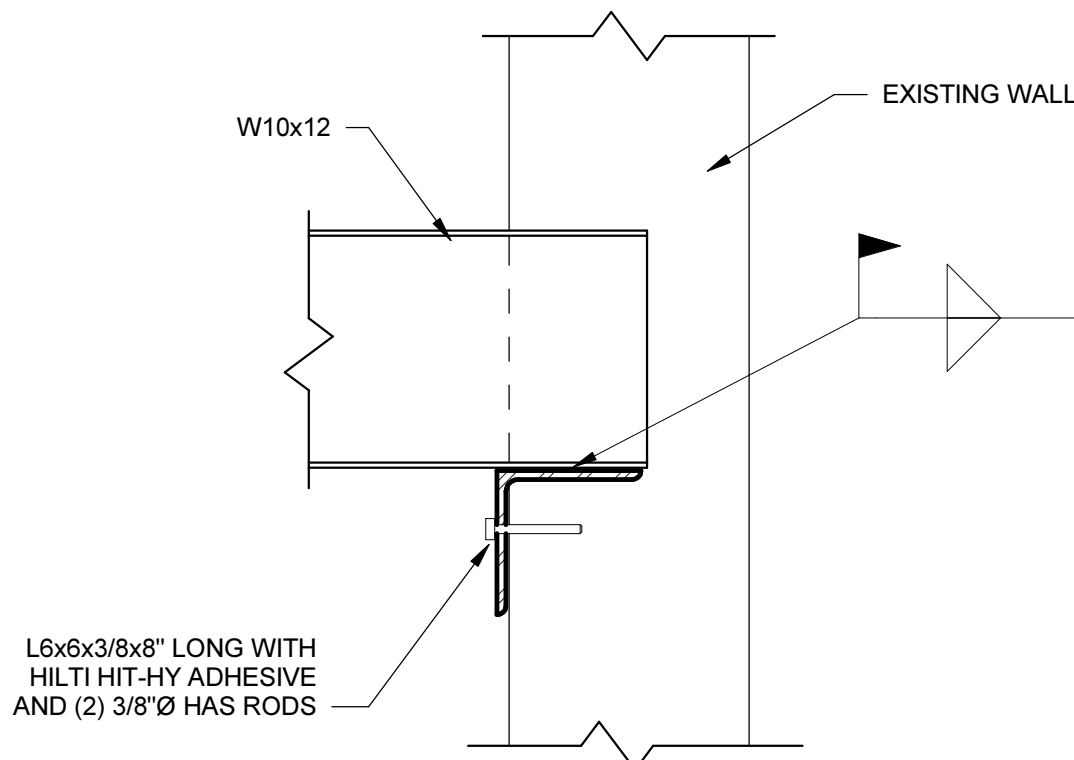
DESIGN INFORMATION
DESIGN CODE = 2015 IBC AND ASCE 7-10

B4 GENERAL FRAMING NOTES

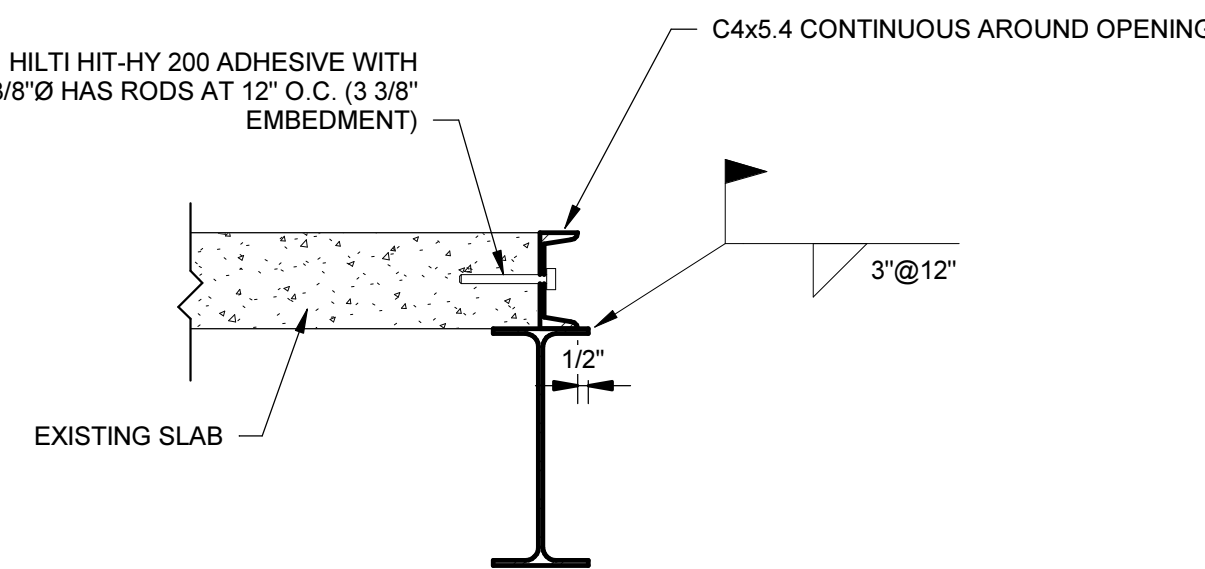
SCALE: 3/4" = 1'-0"



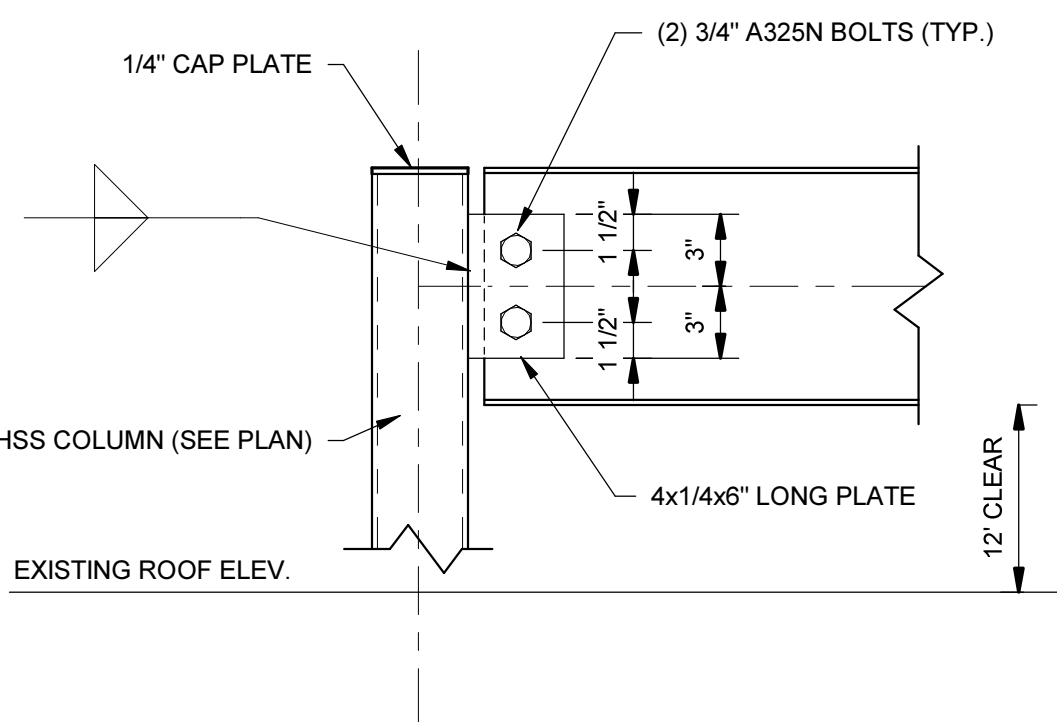
A1 TYP. BEAM TO BEAM CONNECTION
SCALE: 1 1/2" = 1'-0"



A2 TYP. BEAM TO WALL CONNECTION
SCALE: 1 1/2" = 1'-0"



A3 TYP. SLAB OPENING DETAIL
SCALE: 1 1/2" = 1'-0"



A4 BEAM TO COLUMN CONNECTION
SCALE: 1 1/2" = 1'-0"

ABBREV

DESCRIPTION

ACV AUTOMATIC CONTROL VALVE
AFF ABOVE FINISHED FLOOR
AFG ABOVE FINISHED GRADE
ALD ACOUSTICAL LINED DUCT
AMS AIRFLOW MEASURING STATION
APD AIR PRESSURE DROP
ATC AUTOMATIC TEMPERATURE CONTROL

B BAROMETRIC DAMPER
BD BACKDRAFT DAMPER
BHP BRAKE HORSEPOWER
BPD BYPASS DAMPER
BTU BRITISH THERMAL UNITS

CBD COUNTERBALANCED BACKDRAFT DAMPER
CFM CUBIC FEET PER MINUTE
CHWR CHILLED WATER RETURN
CHWS CHILLED WATER SUPPLY
CO CLEANOUT
CTE CONNECT TO EXISTING
CWR CONDENSER WATER RETURN
CWS CONDENSER WATER SUPPLY

DCW DOMESTIC COLD WATER
DEG.F DEGREES FAHRENHEIT
DHW DOMESTIC HOT WATER
DIA DIAMETER
DN DOWN

EAT ENTERING AIR TEMPERATURE
ESP EXTERNAL STATIC PRESSURE
EWT ENTERING WATER TEMPERATURE
EXG EXISTING
EXH EXHAUST

F&T FLOAT & THERMOSTATIC TRAP
F/S FIRE AND SMOKE COMBINATION DAMPER
FC FLEXIBLE CONNECTION
FD FIRE DAMPER
FL FINNED LENGTH OF RADIATION
FM FLOW METER
FOR FUEL OIL RETURN
FOS FUEL OIL SUPPLY
FPF FINS PER FOOT
FPI FINS PER/INCH
FPM FEET PER MINUTE
FT FEET
FT-HD FEET OF HEAD
FT-WG FEET WATER GAUGE
FTR FIN TUBE RADIATOR

GAL GALLONS
GPM GALLONS PER MINUTE

HP HORSEPOWER
HPCR HIGH PRESSURE CONDENSATE RETURN (OVER 30 PSIG)
HPS HIGH PRESSURE STEAM (OVER 30PSIG)
HRR HEAT RECOVERY RETURN
HRS HEAT RECOVERY SUPPLY
HWR HOT WATER RETURN
HWS HOT WATER SUPPLY

IN INCHES

ABBREV

DESCRIPTION

LAT LEAVING AIR TEMPERATURE
LPCR LOW PRESSURE CONDENSATE RETURN (LESS THAN 15 PSI)
LPS LOW PRESSURE STEAM(LESS THAN 15 PSI)
LRA LOCKED ROTOR AMPS
LSGV LOCK & SHIELD GATE VALVE
LWT LEAVING WATER TEMPERATURE

M MOTORIZED DAMPER
MAX MAXIMUM
MBH 1000 BRITISH THERMAL UNITS
MCA MINIMUM CIRCUIT AMPS
MIN MINIMUM
MOPD MAXIMUM OVERCURRENT PROTECTIVE DEVICE
MPCR MEDIUM PRESSURE CONDENSATE RETURN(16-30 PSIG)
MPS MEDIUM PRESSURE STEAM (16-30 PSIG)

NA NOT APPLICABLE
NC NOISE CRITERIA
NIC NOT IN CONTRACT
NO NORMALLY OPEN
NTS NOT TO SCALE

OA OUTSIDE AIR
OC ON CENTER
OED OPEN END DUCT
OS&Y OUTSIDE SCREW & YOKE GATE VALVE

PD PRESSURE DROP
PRD PRESSURE RELIEF DAMPER
PRV PRESSURE REDUCING VALVE
PSI POUNDS PER SQUARE INCH
PSIG POUNDS PER SQUARE INCH GAUGE

RET RETURN
RET RETURN
RL REFRIGERANT LIQUID
RLA RATED LOAD AMPERES
RPM REVOLUTIONS PER MINUTE
RS REFRIGERANT SUCTION

S SMOKE DAMPER
SP STATIC PRESSURE
SS STAINLESS STEEL
SUP SUPPLY

TEMP TEMPERATURE
TT THERMOSTATIC TRAP
TYP TYPICAL

V VOLUME DAMPER
VFD VARIABLE FREQUENCY DRIVE

W/ WITH
W/O WITHOUT
WC WATER COLUMN
WG WATER GAUGE
WMS WELDED WIRE MESH SCREEN
WPD WATER PRESSURE DROP

Z ZONE DAMPER

PREFIX OF X EXISTING

PIPING LEGEND

SYMBOL DESCRIPTION

EXISTING SUPPLY PIPING TO REMAIN
EXISTING RETURN PIPING TO REMAIN
NEW SUPPLY PIPING
NEW RETURN PIPING
ACV 2 - WAY
ACV 3 - WAY
CAP - PIPE
CHECK VALVE
COMBINATION BALANCING, FLOW MEASURING & TIGHT SHUT-OFF VALVE
DIFFERENTIAL PRESSURE SENSOR
FLOAT & THERMOSTATIC TRAP
ISOLATION VALVE
GLOBE VALVE
INVERTED BUCKET TRAP
LOCKSHIELD GATE VALVE
MANUAL AIR VENT
OS&Y GATE VALVE
PETCOCK FOR GAUGE CONNECTION
PIPE ANCHOR
PIPE DOWN
PIPE UP
PIPE GUIDE
PLUG VALVE
PRESSURE GAUGE
PRESSURE REDUCING VALVE
PRESSURE RELIEF VALVE
REDUCER - CONCENTRIC
REDUCER - ECCENTRIC
STRAINER
TAKE - OFF FROM BOTTOM OF PIPE
TAKE - OFF FROM TOP OF PIPE
THERMOMETER
THERMOMETER WELL
THERMOSTATIC TRAP
UNION
RADIATION I.D. (TYPE A, 10'-0" FINNED LENGTH, BALANCED TO 1.2 GPM) WITH DAMPER
RADIATION I.D. (TYPE A, 10'-0" FINNED LENGTH, BALANCED TO 1.2 GPM) WITHOUT DAMPER

DUCTWORK LEGEND

SYMBOL DESCRIPTION

EXISTING DUCTWORK TO REMAIN
NEW DUCTWORK
ACOUSTICALLY LINED DUCT
AIRFLOW MEASURING STATION
BACKDRAFT DAMPER
COUNTERBALANCED DAMPER
SPIRAL DUCT DIAMETER
DUCT SECTION - SUPPLY/OUTDOOR AIR
DUCT SECTION - RETURN AIR
DUCT SECTION - EXHAUST AIR
DUCT TURNING VANES
FIRE DAMPER (1 1/2 HOUR RATED)
FIRE AND SMOKE DAMPER (1 1/2 HOUR RATED)
FIRE DAMPER (3 HOUR RATED)
FLEXIBLE DUCT
LOUVER
MOTORIZED DAMPER
PRESSURE RELIEF DAMPER
RETURN OR EXHAUST AIR
SMOKE DAMPER
DUCT MOUNTED SMOKE DETECTOR
STRAINER
STATIC PRESSURE SENSOR
SUPPLY OR OUTSIDE AIR
VOLUME DAMPER
S (SUPPLY) R (RETURN) E (EXHAUST) T (TRANSFER) SUPPLY DIFFUSER (TYPE 2)
DIFFUSER DESCRIPTION (SEE REG., GRILLES & DIFF SCHEDULE)
QUANTITY
400 CFM EA

CONTROLS LEGEND

SYMBOL DESCRIPTION

HUMIDISTAT
HUMIDITY SENSOR
TEMPERATURE SENSOR
THERMOSTAT
THERMOSTAT COOLING
THERMOSTAT HEATING
THERMOSTAT - NIGHT
THERMOSTAT - HEATING/COOLING

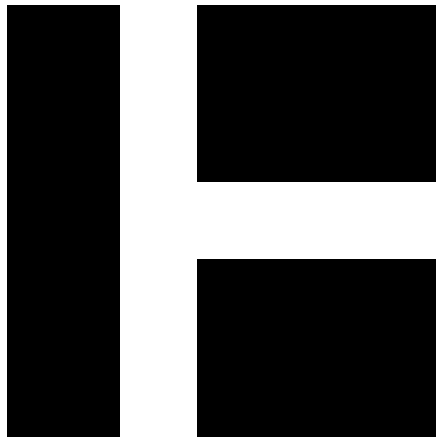
GENERIC LEGEND

SYMBOL DESCRIPTION

CONNECT NEW TO EXISTING
DEMOLISHED EQUIPMENT, DUCTWORK, OR PIPING
EXISTING EQUIPMENT TO REMAIN
NEW EQUIPMENT
SECTION I.D. (SECTION A SHOWN ON DWG. M10.1)

GENERAL NOTES

- VISIT THE BUILDING SITE PRIOR TO BIDDING TO BECOME FAMILIAR WITH EXISTING CONDITIONS, AND TO TAKE MEASUREMENTS AS NECESSARY FOR COMPLETION OF THE WORK ASSOCIATED WITH THE DESIGN INTENT OF THE CONTRACT DOCUMENTS.
- COORDINATE WORK OF MECHANICAL SUBCONTRACTOR WITH WORK OF OTHER TRADES.
- DUCTWORK, PIPING AND EQUIPMENT ARE INDICATED DIAGRAMMATICALLY. FIELD-VERIFY LOCATIONS.
- PRIOR TO FABRICATING DUCTWORK, COORDINATE WITH OTHER TRADES TO ENSURE THAT THE DUCTWORK CAN BE INSTALLED WITH THE INDICATED SIZES AND LOCATIONS.FIELD-VERIFY EXISTING DUCT SIZES AND CONDITIONS.SUBMIT ANY DISCREPANCIES OR PROPOSED CHANGES.
- REFER TO ARCHITECTURAL REFLECTED CEILING PLAN FOR LOCATIONS OF CEILING DIFFUSERS AND REGISTERS.PROVIDE VOLUME DAMPERS SO THAT EVERY REGISTER, GRILLE AND DIFFUSER (SUPPLY, RETURN, AND EXHAUST) CAN BE INDIVIDUALLY BALANCED.
- VERIFY INSTALLATION OF EXISTING VOLUME DAMPERS AT EACH BRANCH IN EXISTING SUPPLY DUCT. PROVIDE ADDITIONAL VOLUME DAMPERS WHERE REQUIRED.
- LOCATE VOLUME DAMPERS AS FAR AWAY FROM REGISTERS, GRILLES AND DIFFUSERS AS POSSIBLE TO MINIMIZE NOISE. LOCATE TO BE UNOBSTRUCTED AND EASILY ACCESSIBLE FOR TESTING AND BALANCING. LOCATE POSSIBLE WHERE VOLUME DAMPERS MUST BE LOCATED ABOVE HARD CEILINGS SUCH AS GYPSUM WALLBOARD, PROVIDE ACCESS PANELS AS SPECIFIED, AND NOTIFY THE ARCHITECT OF SUCH LOCATIONS VERBALLY AND IN WRITING. OBTAIN PERMISSION FROM THE ARCHITECT BEFORE INSTALLING ACCESS PANELS.
- DUCT ELBOWS SHALL BE LONG-RADIUS TYPE (THROAT RADIUS EQUAL TO OR GREATER THAN DUCT WIDTH IN THE PLANE OF THE TURN) WHEREVER SPACE ALLOWS. IF SPACE IS NOT ADEQUATE, PROVIDE MITERED ELBOWS WITH TURNING VANES.
- PROVIDE 16 GAUGE SINGLE-THICKNESS TURNING VANES AT MITERED DUCT ELBOWS. VANE EDGES (LEADING AND TRAILING) SHALL BE TANGENTIAL TO AIRFLOW.
- FLEXIBLE DUCT LENGTHS SHALL NOT EXCEED 5'-0"
- PAINT DUCTWORK VISIBLE THRU CEILING OPENINGS, DUCT OPENINGS, AND REGISTERS, GRILLES, AND DIFFUSERS WITH BLACK PAINT IN ACCORDANCE WITH DIVISION 09 SECTION "PAINTING."
- MOUNT THERMOSTATS AND TEMPERATURE AND HUMIDITY SENSORS AT 48 INCHES AFF TO TOP OF ITEM. PROVIDE ELECTRICAL WALL BOX ATTACHED TO FRAMING.
- WHERE THERMOSTATS/TEMPERATURE SENSORS ARE LOCATED NEAR LIGHT SWITCHES, INSTALL SO THAT LIGHT SWITCHES ARE NEARER TO THE DOOR JAMBS. THE INTENT IS TO LOCATE THERMOSTATS/ TEMPERATURE SENSORS SO THEY WILL NOT INTERFERE WITH ACCESSIBILITY OF LIGHT SWITCHES.
- PIPING INDICATED IN OUTSIDE WALLS SHALL BE RUN ON THE WARM SIDE OF BUILDING INSULATION AND VAPOR BARRIER. BUILDING INSULATION BEHIND SUCH PIPING SHALL BE CONTINUOUS, WITHOUT JOINTS OR GAPS.
- PIPING SHALL BE CONCEALED EXCEPT IN MECHANICAL ROOMS AND AS INDICATED. WHERE PIPES DROP IN BLOCK WALLS, PROVIDE 1/2" THICK INSULATION MINIMUM.
- SEAL DUCTWORK AND PIPING THRU MECHANICAL ROOM FLOORS AND PARTITIONS, AND THRU FIRE-RATED ASSEMBLIES, WITH FIRESTOP MATERIAL AS SPECIFIED.
- A BUILDER'S RISK CERTIFICATE OF INSURANCE WILL BE FURNISHED TO THE CONTRACTOR UPON REQUEST.
- THE FLOOR SLABS ARE 4" OF REINFORCED CONCRETE AND THE ROOF SLAB ALSO INCLUDES A 4" REINFORCED CONCRETE SLAB. HOWEVER, THERE IS ALSO CINDER CONCRETE APPLIED OVER THE ROOF SLABS AND THE CINDER CONCRETE IS PITCHED SO THE ELEVATION VARIES. CONTRACTOR TO REFER TO GENERAL FRAMIN NOTES B4/S60.1 - MISCELLANEOUS-NOTE 1: "CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS BEFORE PROCEEDING WITH THE WORK".
- ALL OF THE VERTICAL AND HORIZONTAL DUCT IS EXPOSED ON THE 4TH FLOOR.
- THERE IS NO CURRENT WARRANTY ON THE BUILDING K ROOF.



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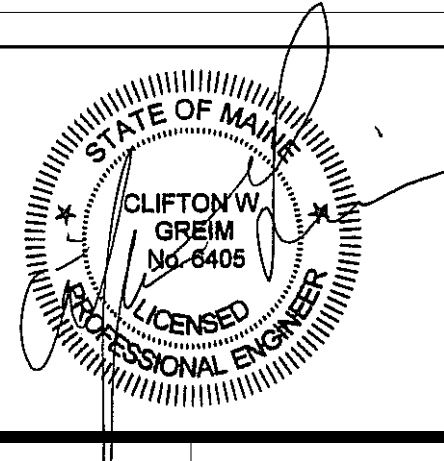
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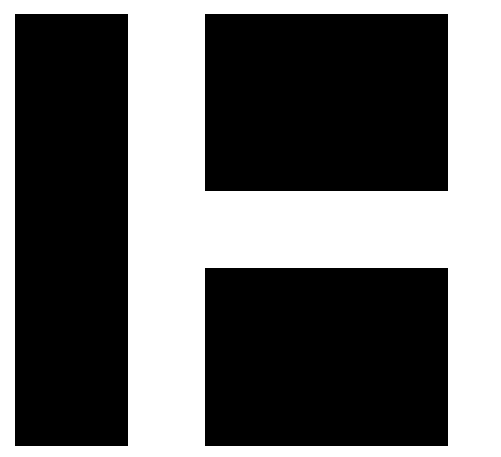
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LEGEND & GENERAL
NOTES

M00.1



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BANGOR, MAINE

Harriman Project No.

18421

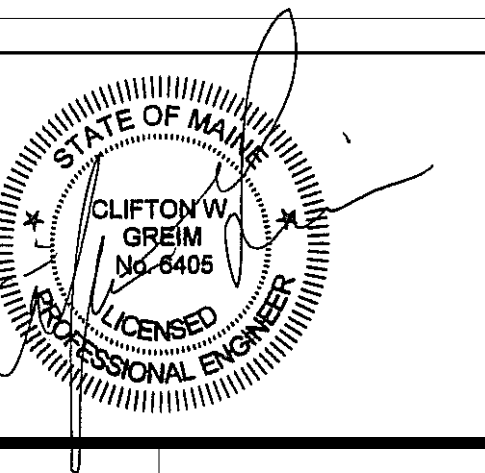
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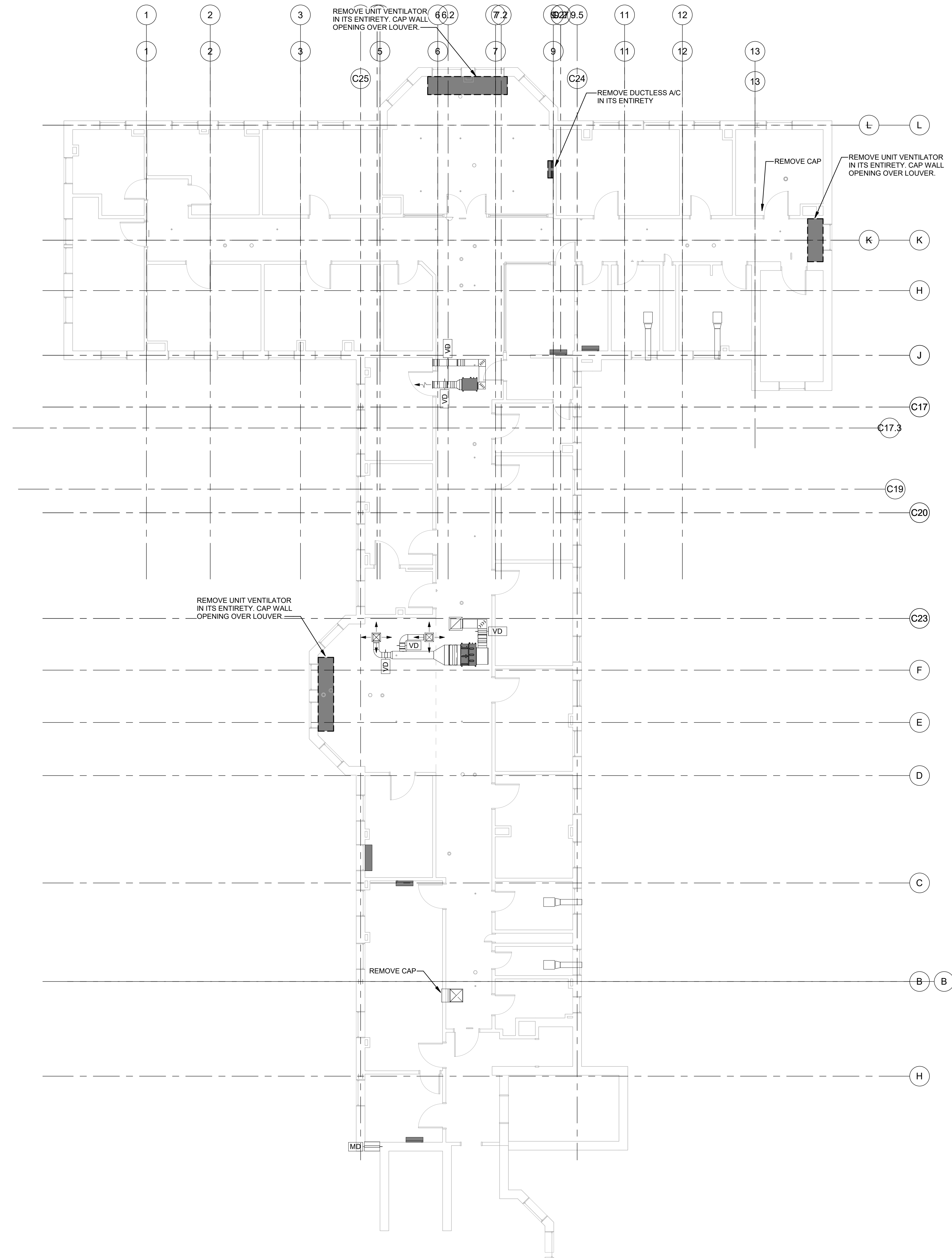


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FIRST FLOOR
DEMOLITION DUCTWORK

M05.1



1 FIRST FLOOR DUCT DEMOLITION

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



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DOROTHEA DIX
BUILDING K
VENTILATION UPGRADES

BANGOR, MAINE

Harriman Project No.

18421

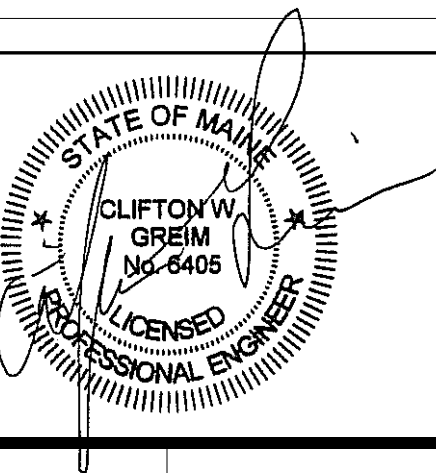
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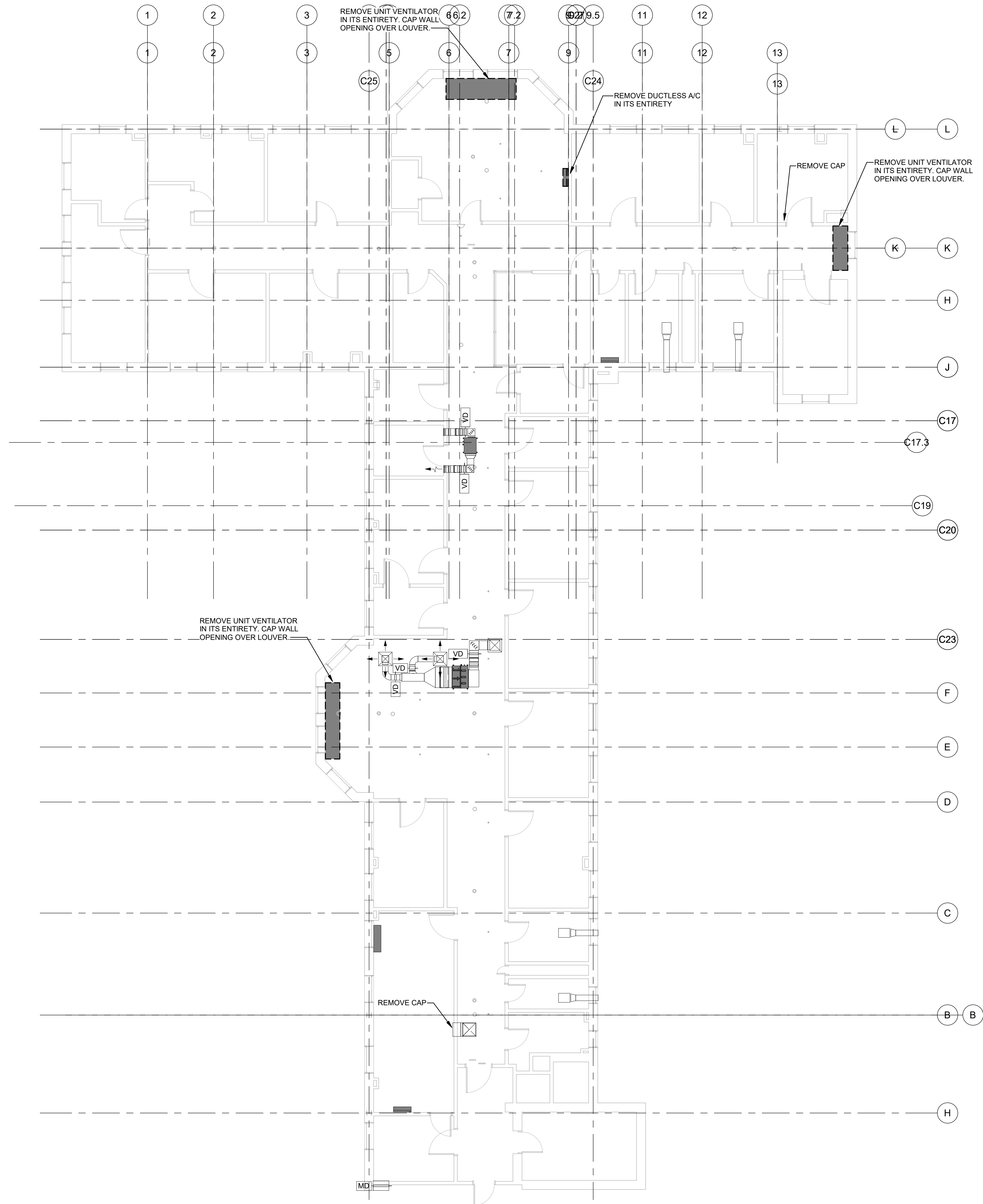


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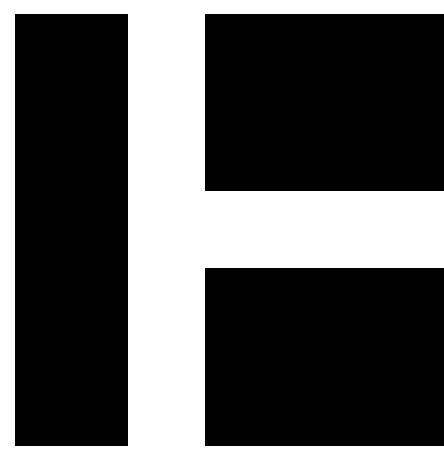
SECOND FLOOR
DEMOLITION DUCTWORK

M05.2



1 SECOND FLOOR DUCT DEMOLITION

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



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VENTILATION UPGRADES

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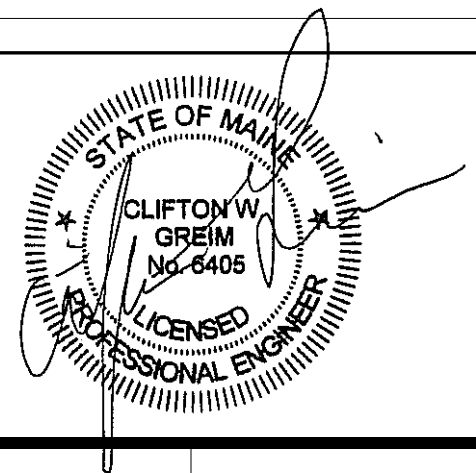
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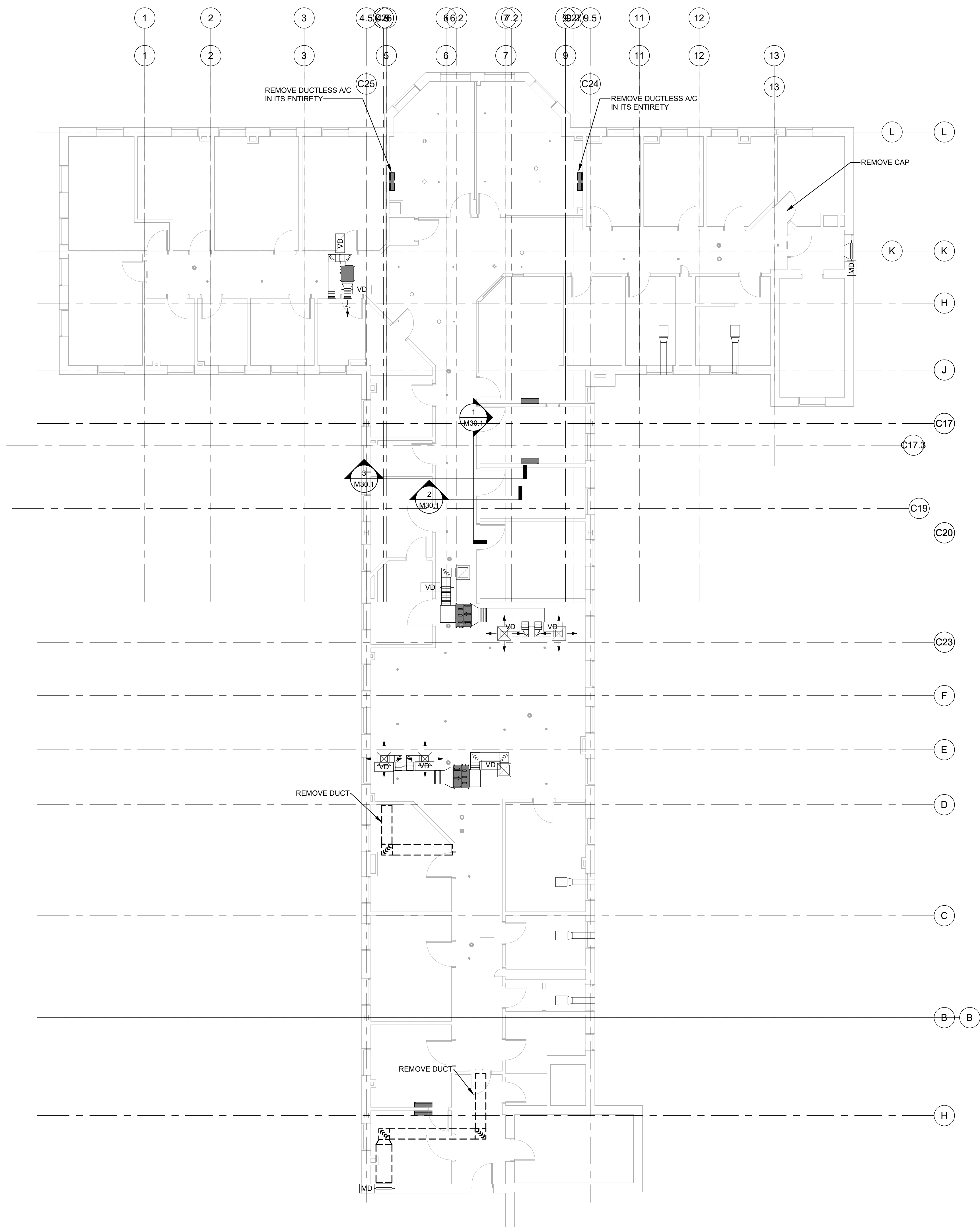
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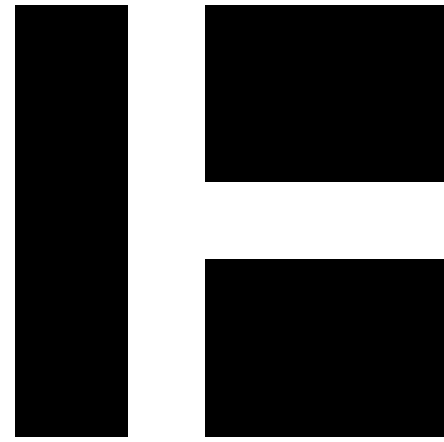
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THIRD FLOOR
DEMOLITION DUCTWORK

M05.3



1 THIRD FLOOR DUCT DEMOLITION
SCALE: 1/8" = 1'-0"



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VENTILATION UPGRADES

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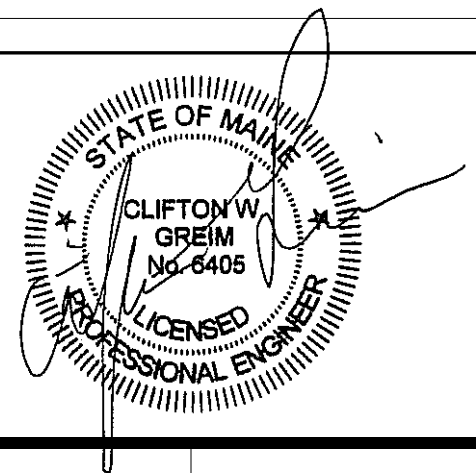
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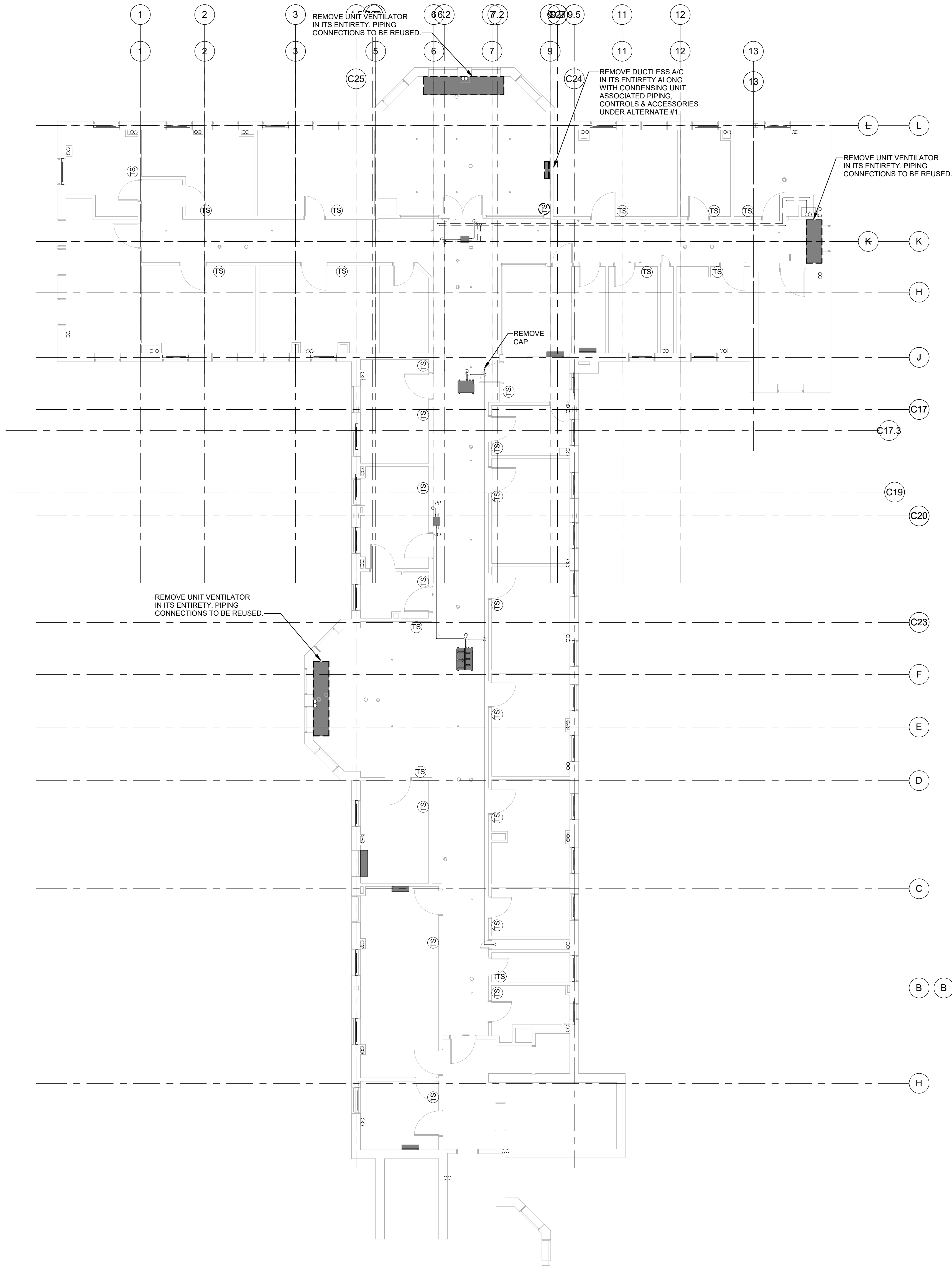
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FIRST FLOOR
DEMOLITION PIPING

M06.1



1

FIRST FLOOR PIPING DEMOLITION

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



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DOROTHEA DIX
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VENTILATION UPGRADES

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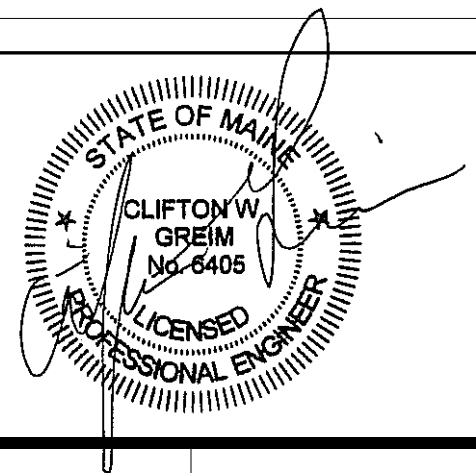
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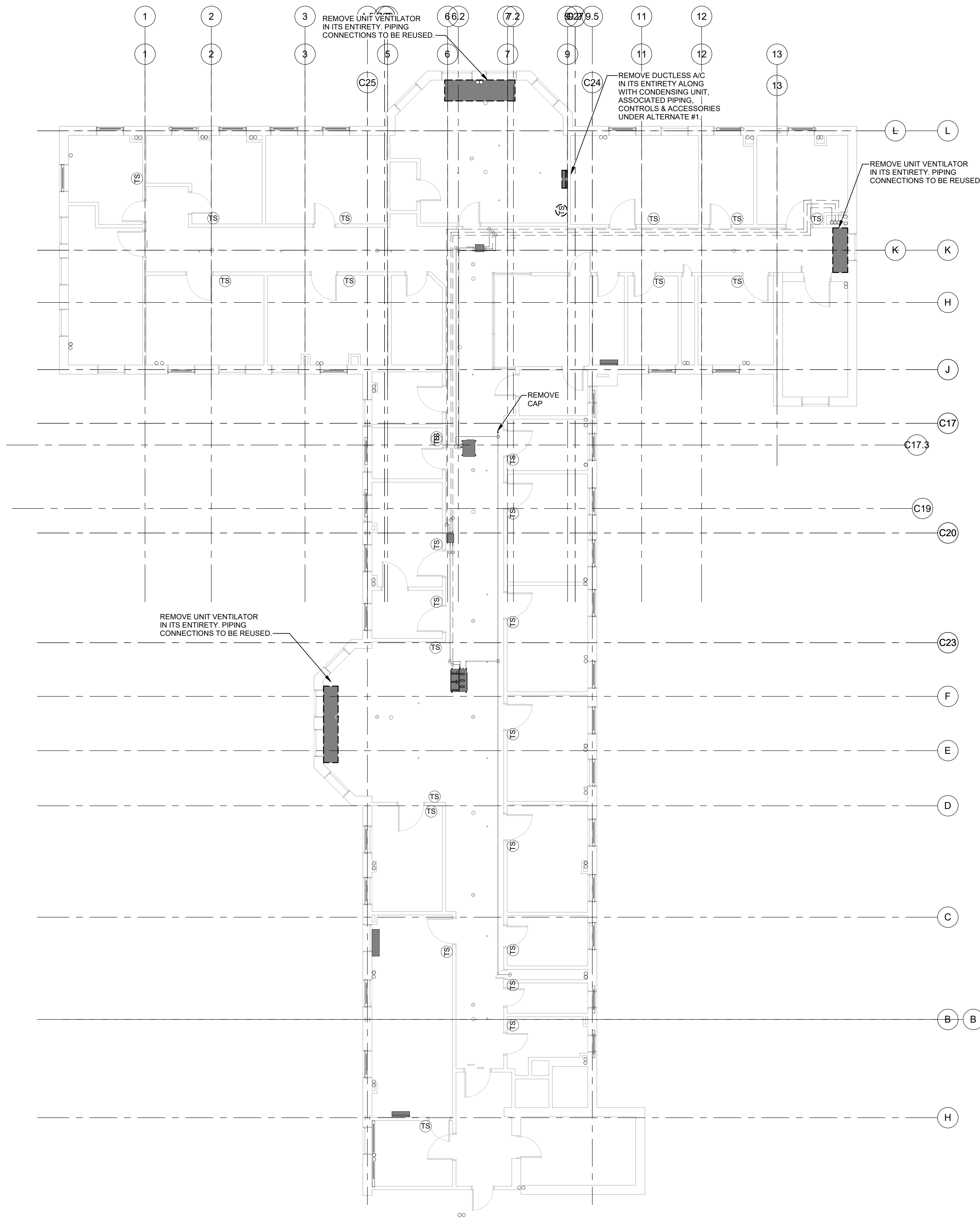
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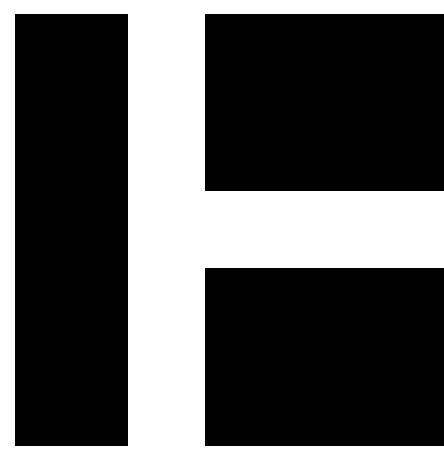
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SECOND FLOOR
DEMOLITION PIPING

M06.2



1 SECOND FLOOR PIPING DEMOLITION
SCALE: 1/8" = 1'-0"



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VENTILATION UPGRADES

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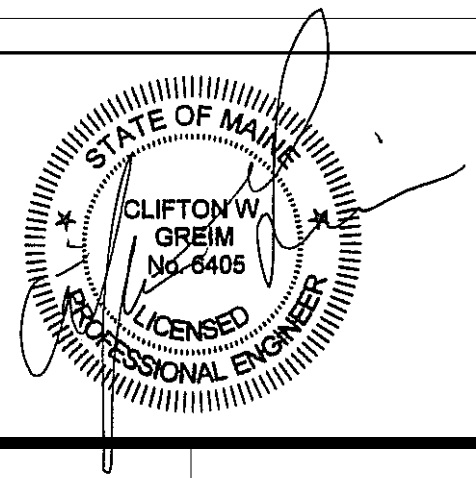
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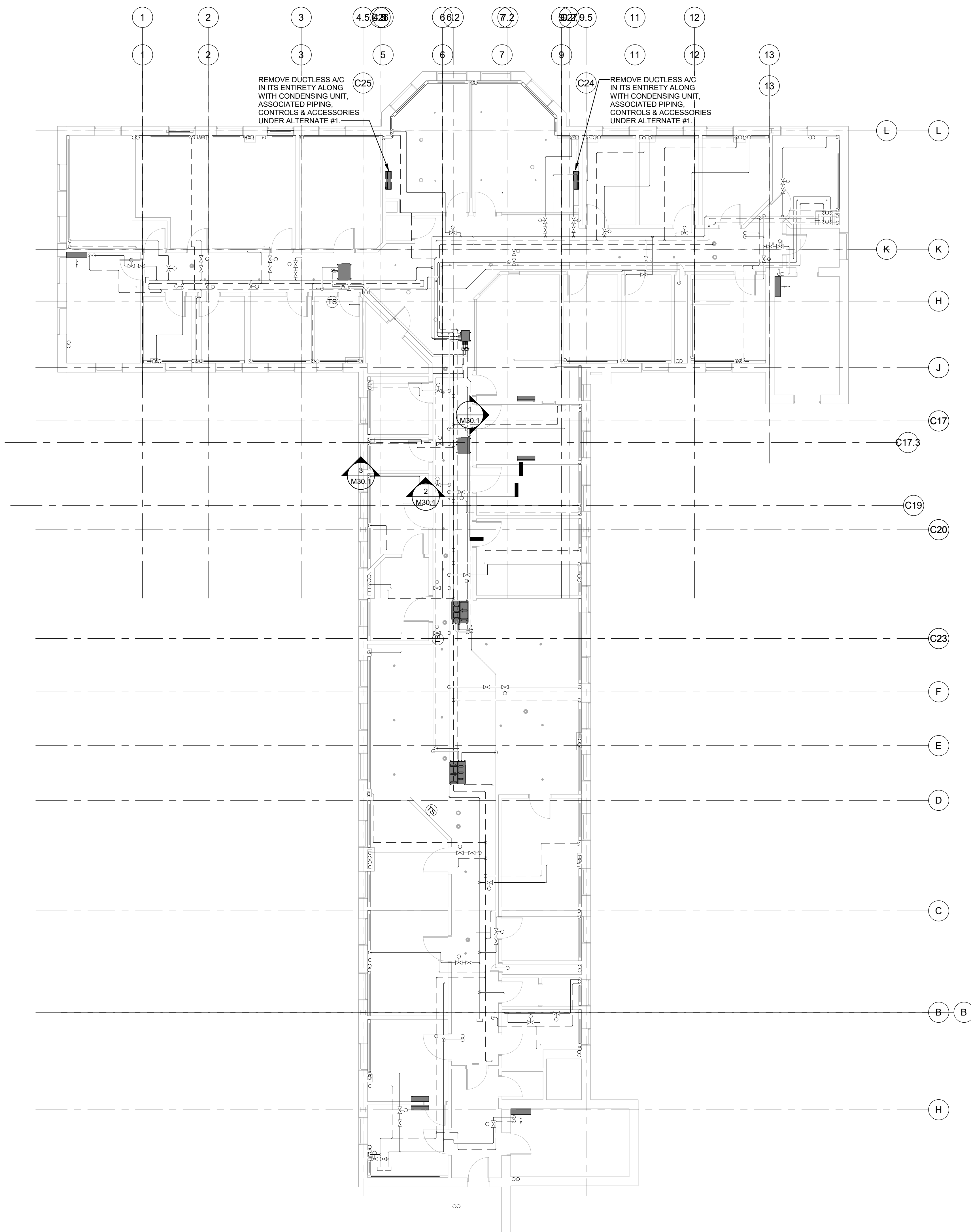
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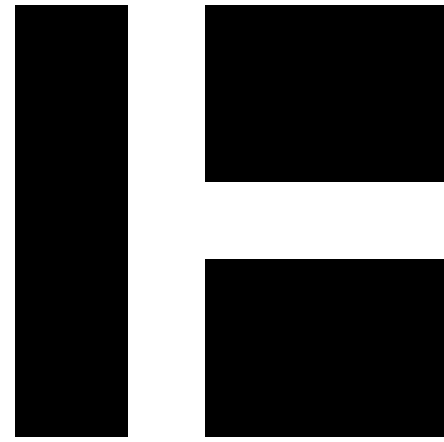
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THIRD FLOOR
DEMOLITION PIPING

M06.3



1 THIRD FLOOR PIPING DEMOLITION
SCALE: 1/8" = 1'-0"



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VENTILATION UPGRADES

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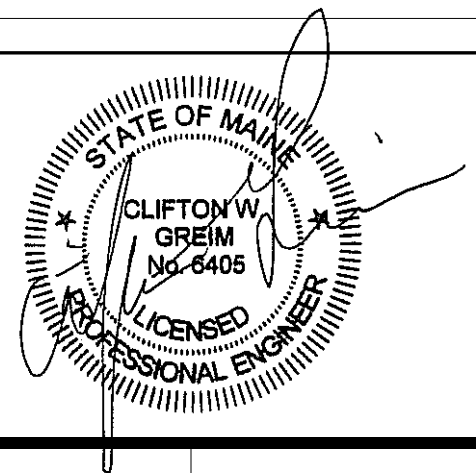
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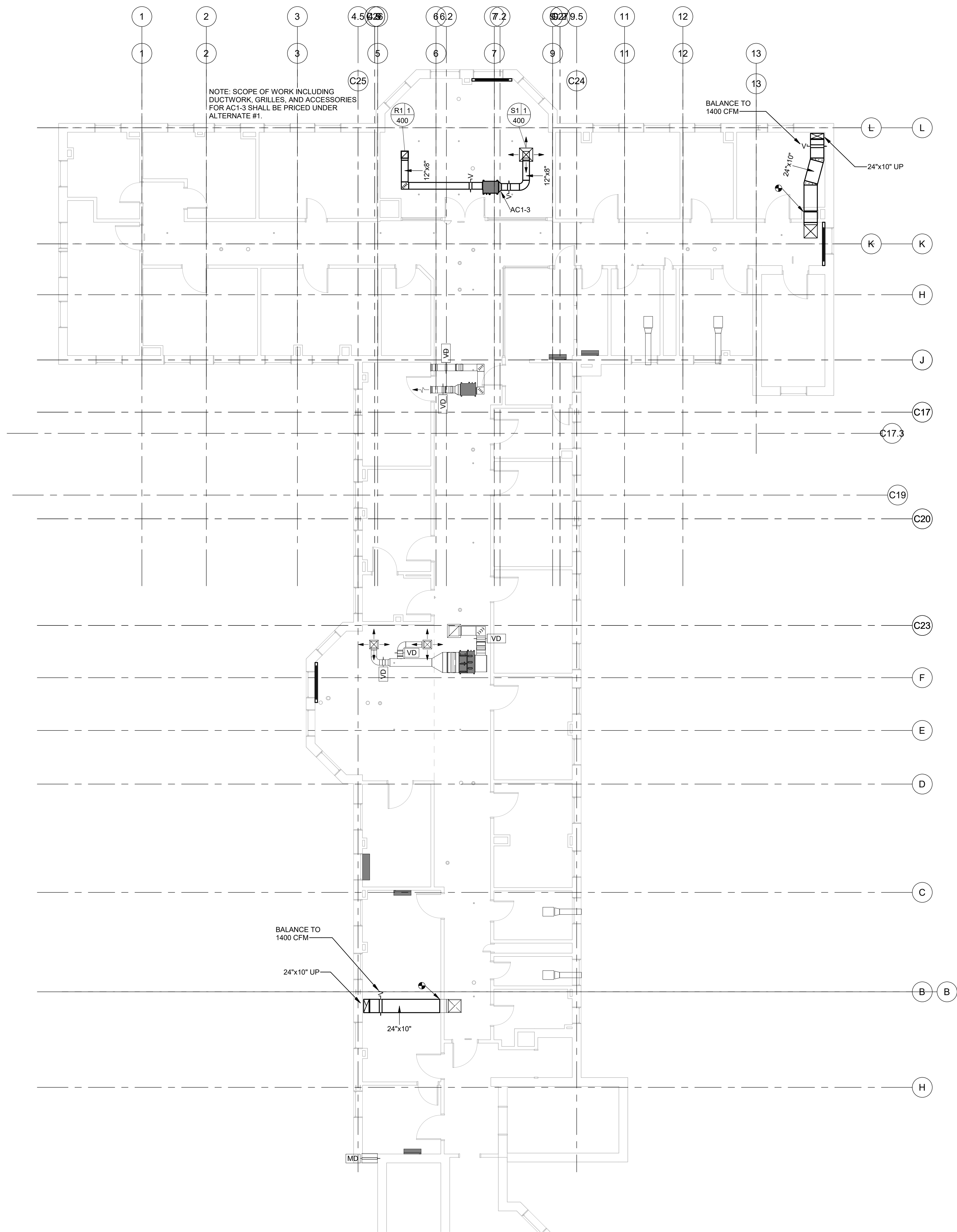
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FIRST FLOOR DUCTWORK

M10.1



1 FIRST FLOOR DUCT PLAN
SCALE: 1/8" = 1'-0"



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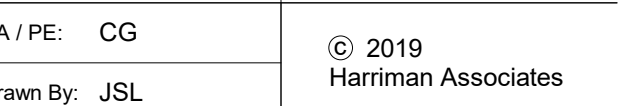
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North



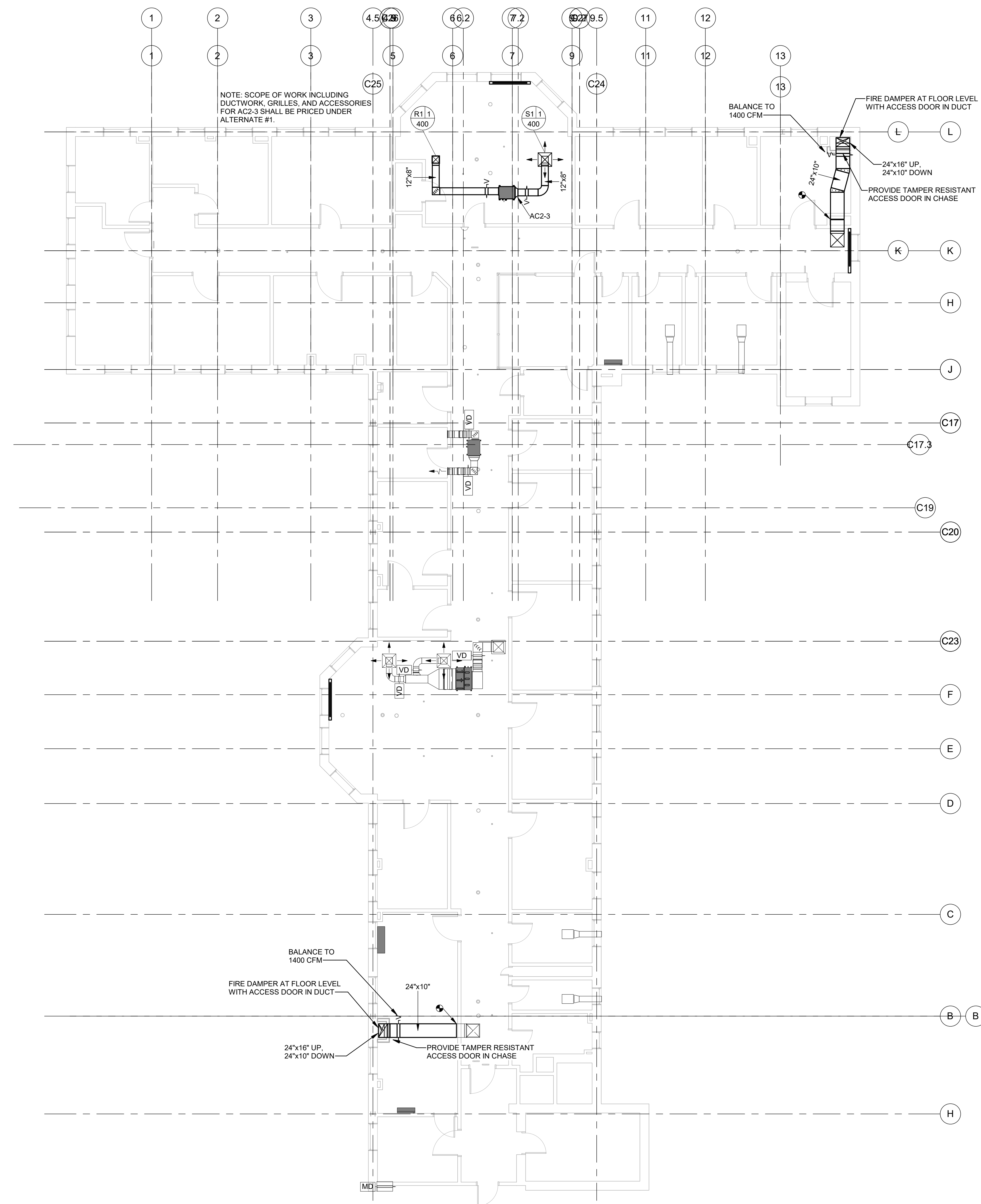
APRIL 19, 2019

Date	Revision Description



SECOND FLOOR DUCTWORK

M10.2



1 SECOND FLOOR DUCT PLAN
SCALE: 1/8" = 1'-0"



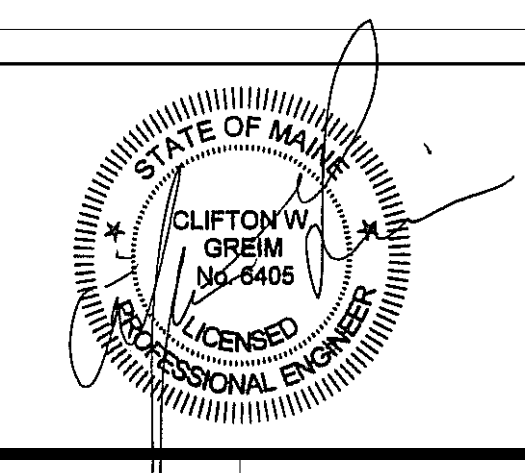
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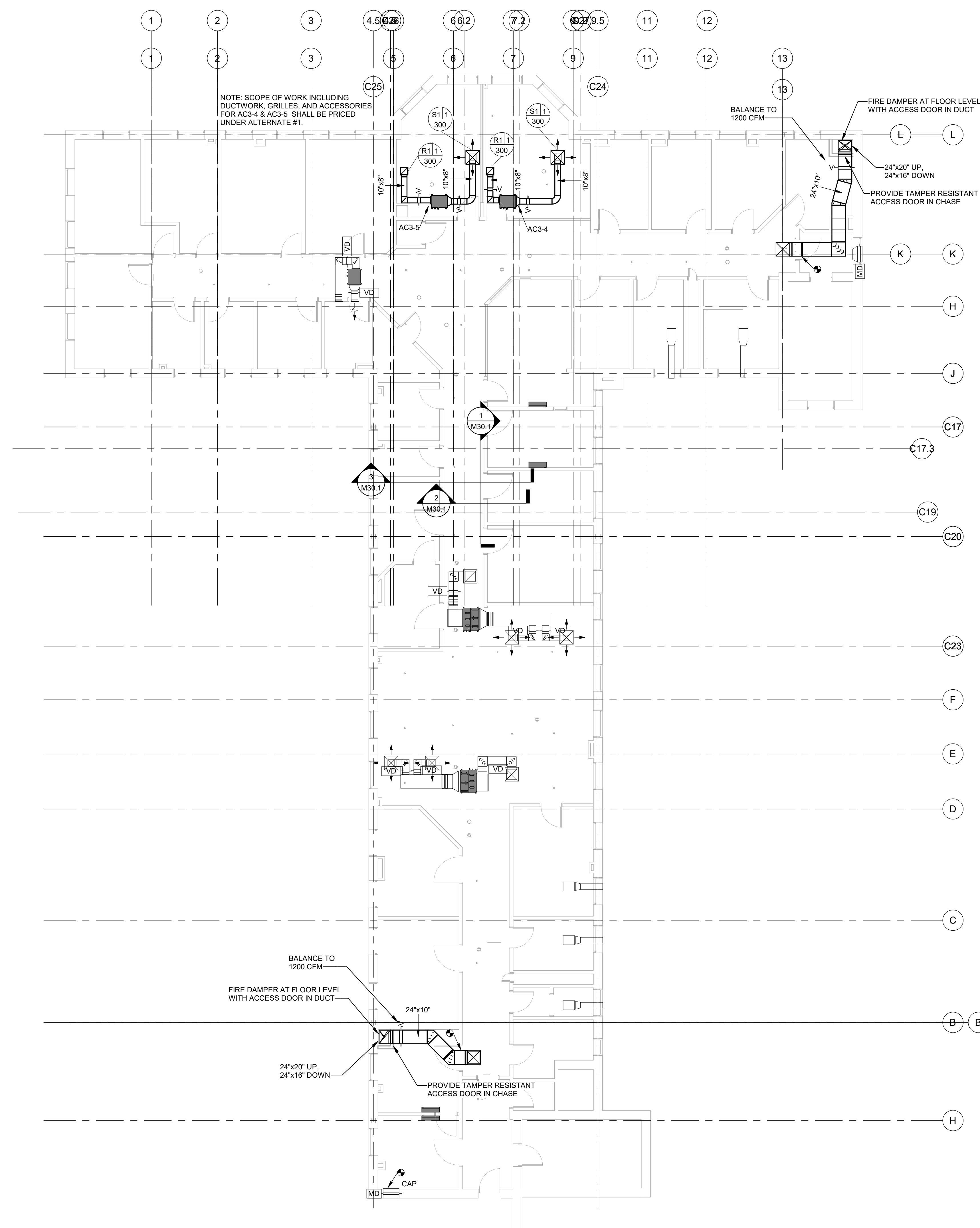


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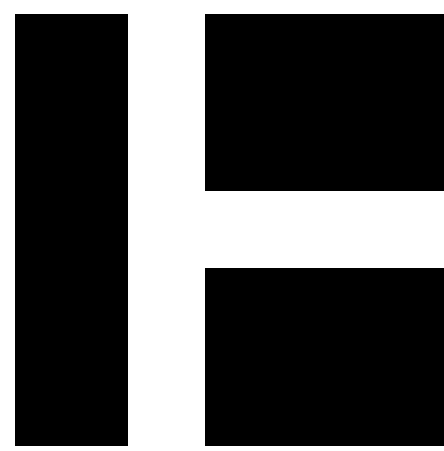
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M10.3



1 THIRD FLOOR DUCT PLAN
SCALE: 1/8" = 1'-0"



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VENTILATION UPGRADES

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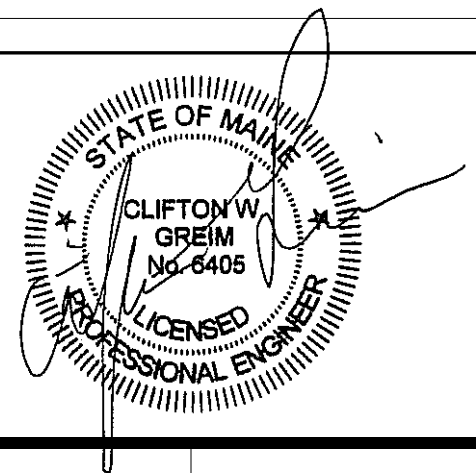
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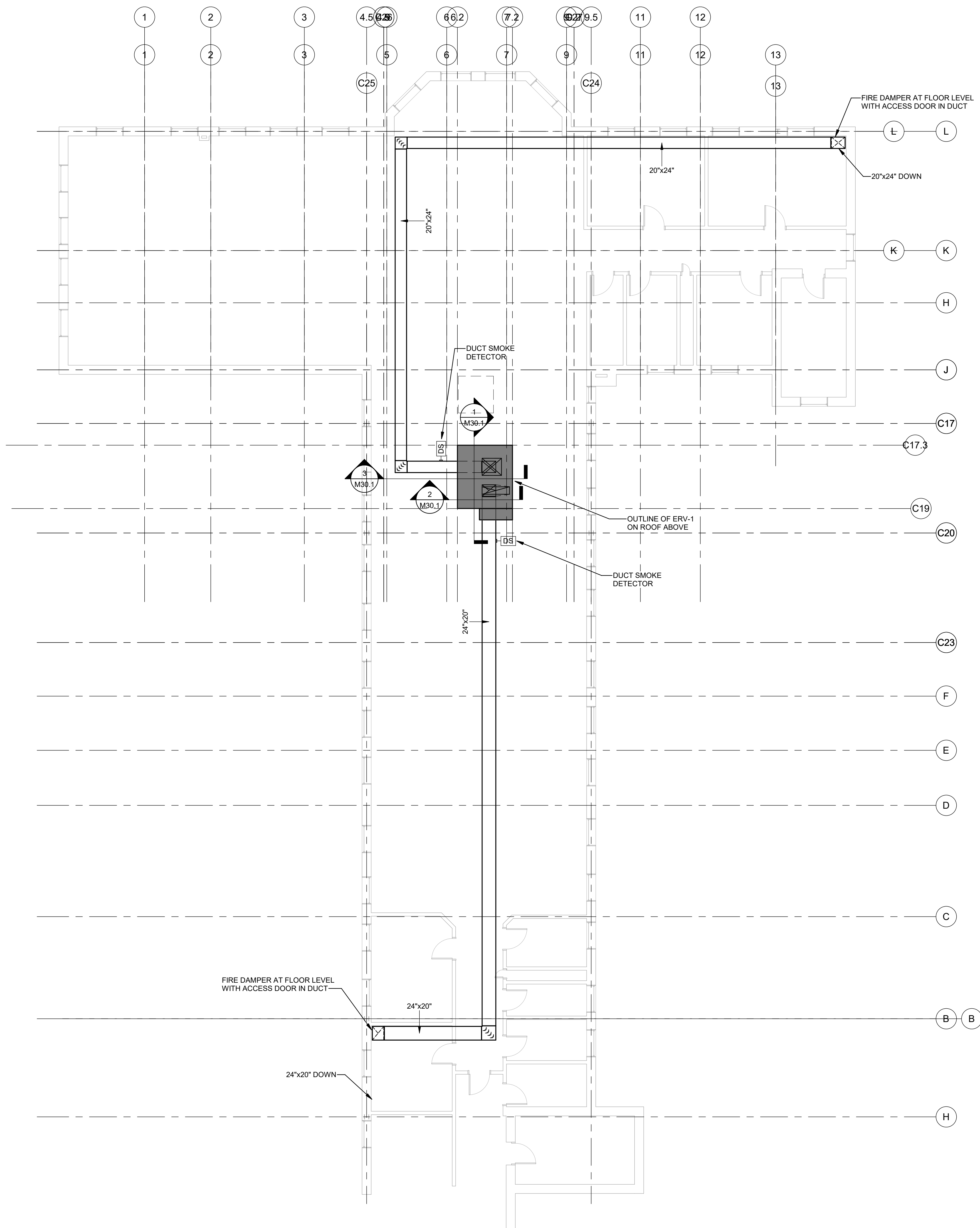
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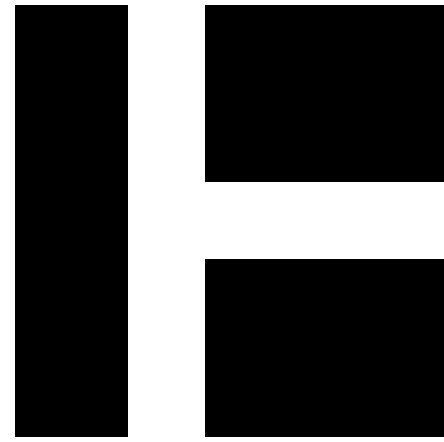
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FOURTH FLOOR
DUCTWORK

M10.4



1 FOURTH FLOOR DUCT PLAN
SCALE: 1/8" = 1'-0"



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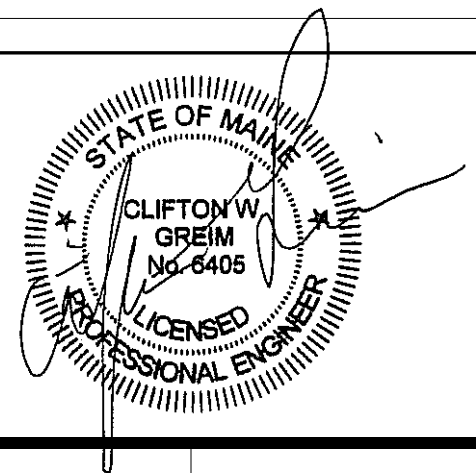
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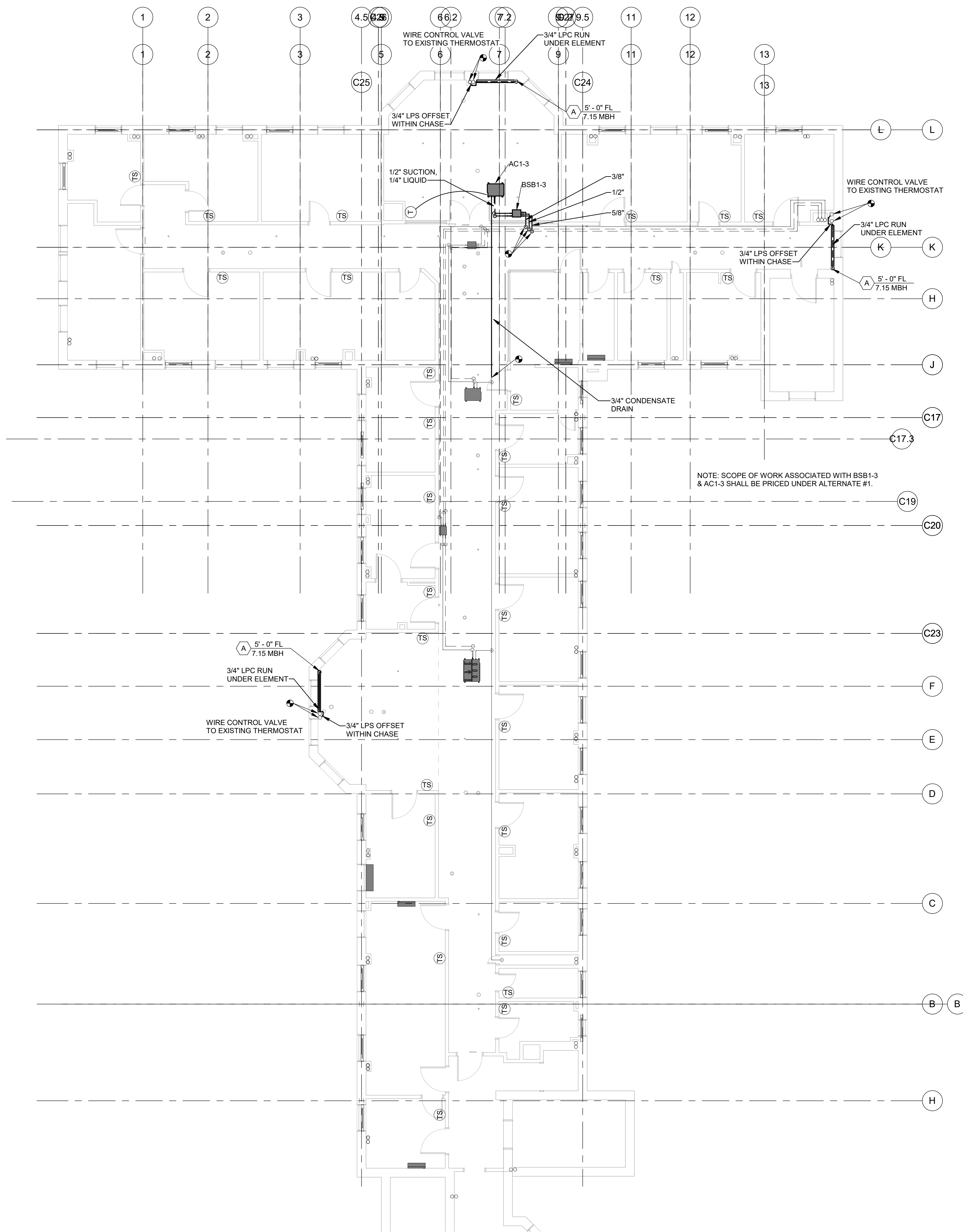
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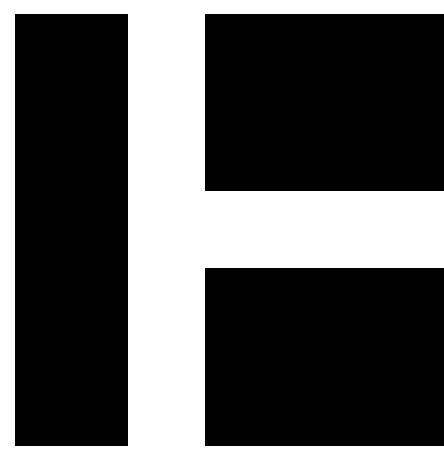
FIRST FLOOR PIPING

M20.1



1 FIRST FLOOR PIPING PLAN

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



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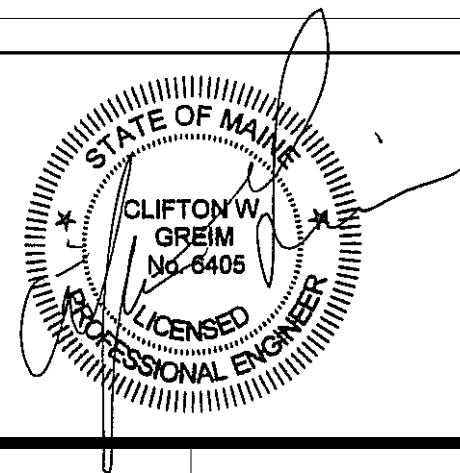
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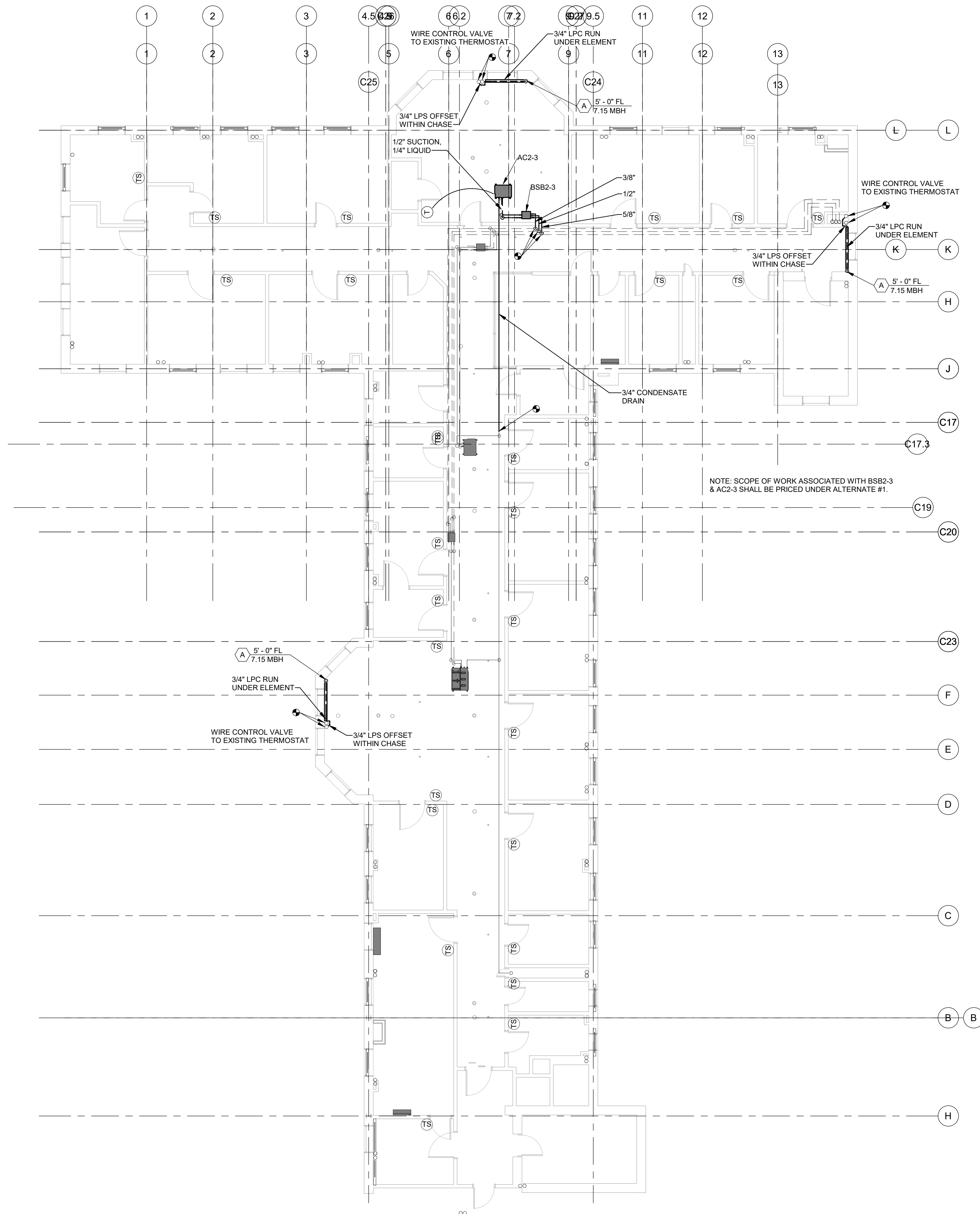
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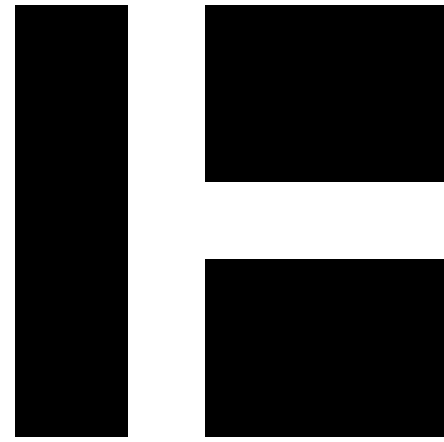
SECOND FLOOR PIPING

M20.2



1 SECOND FLOOR PIPING PLAN

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



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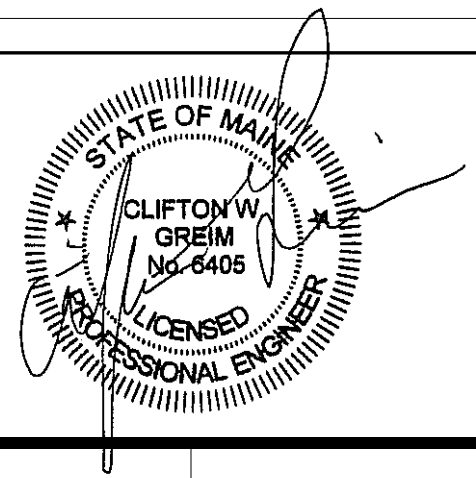
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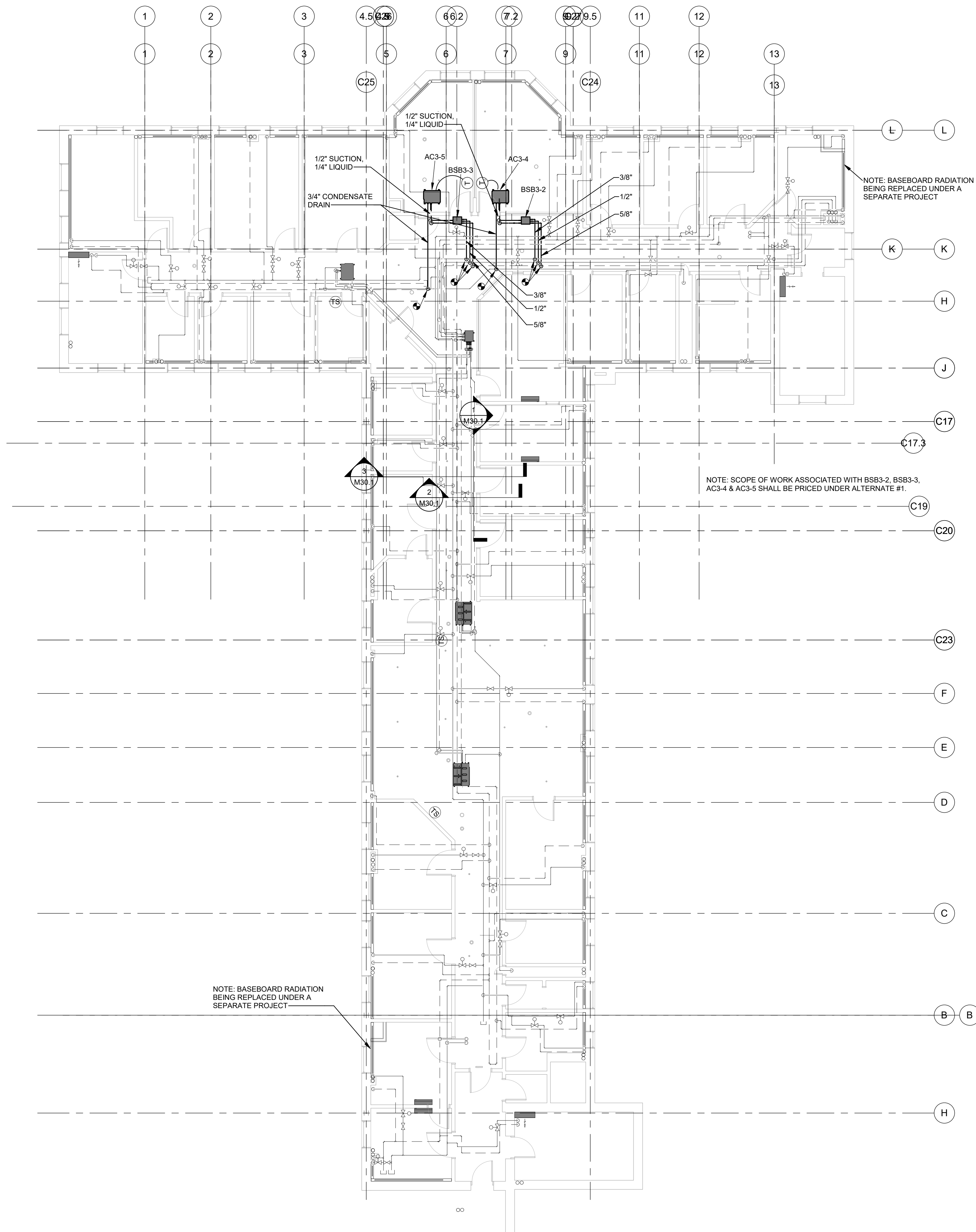
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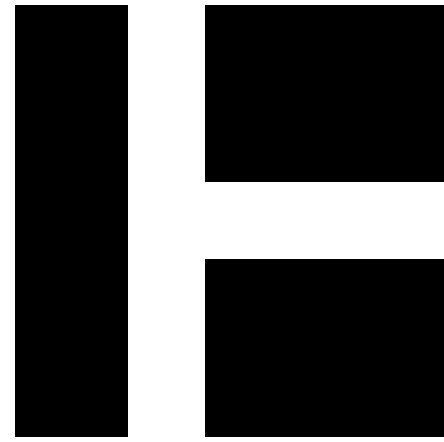
THIRD FLOOR PIPING

M20.3



1 THIRD FLOOR PIPING PLAN

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



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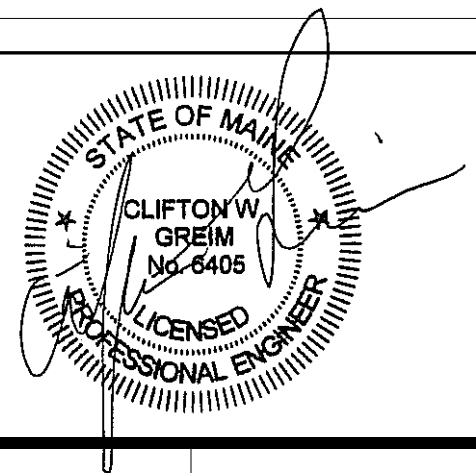
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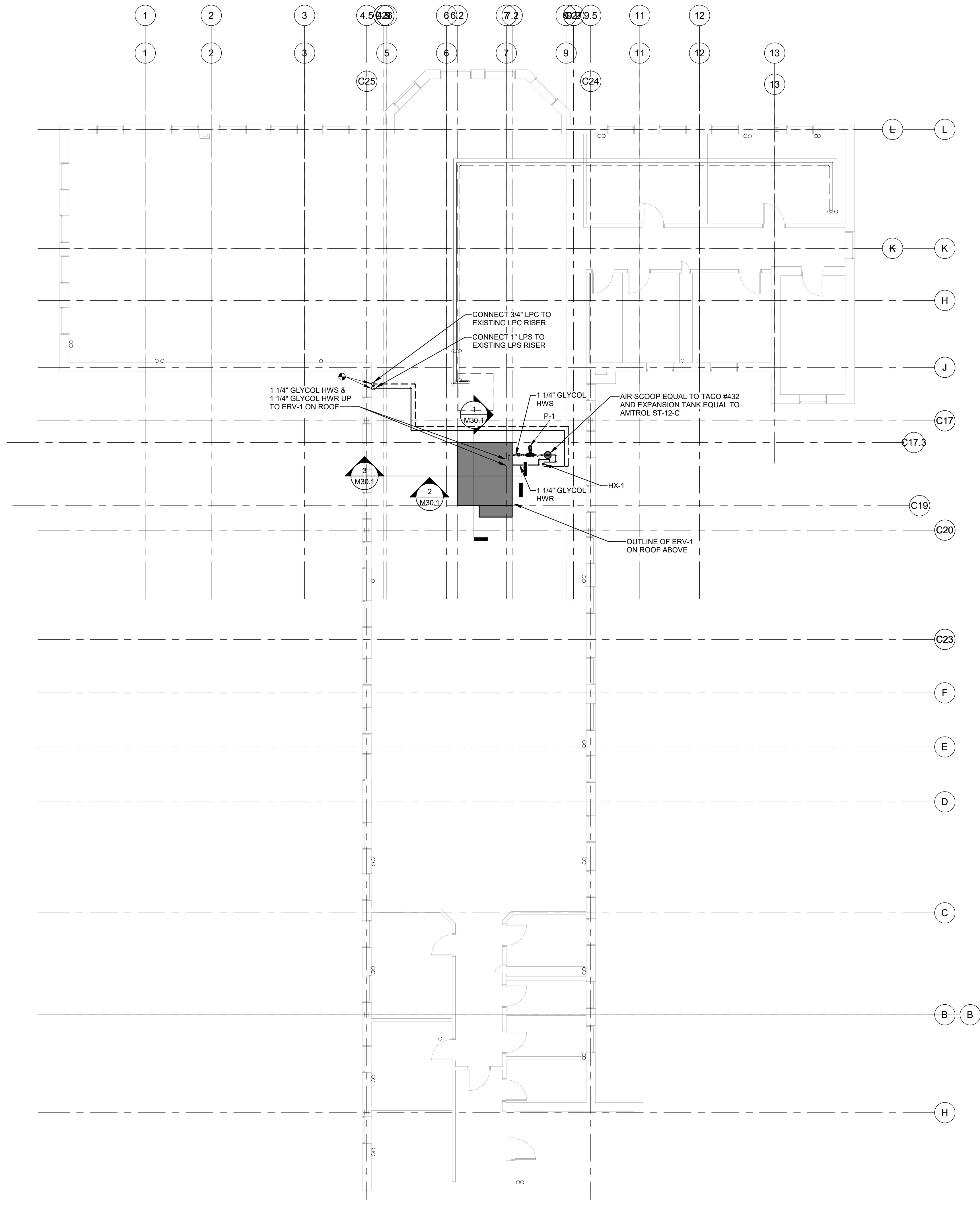
PA / PE: CG

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FOURTH FLOOR PIPING

M20.4



1 FOURTH FLOOR PIPING PLAN
SCALE: 1/8" = 1'-0"



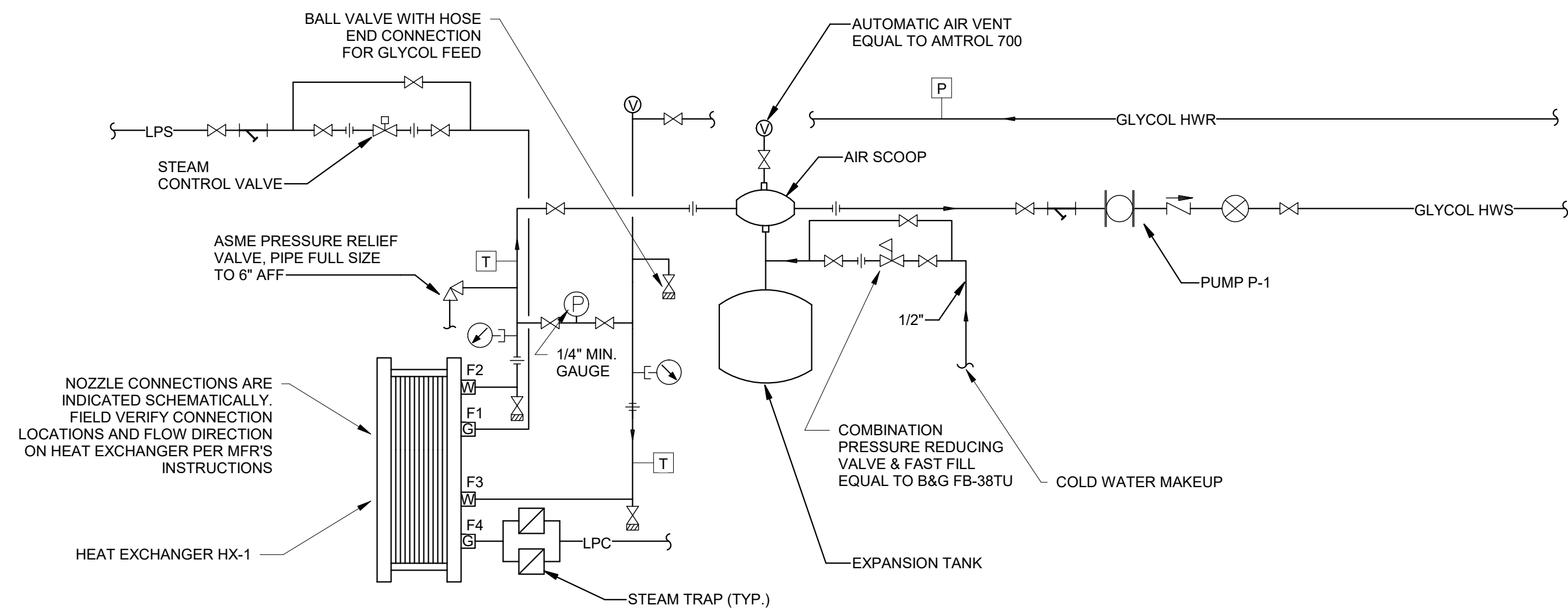
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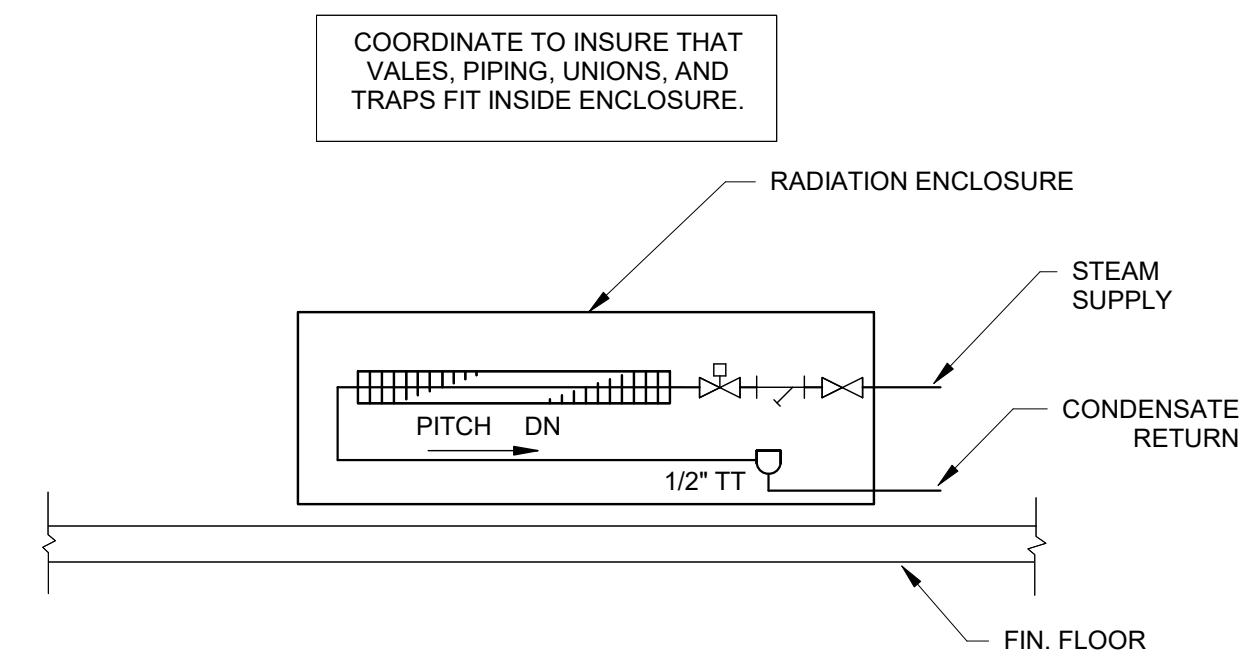
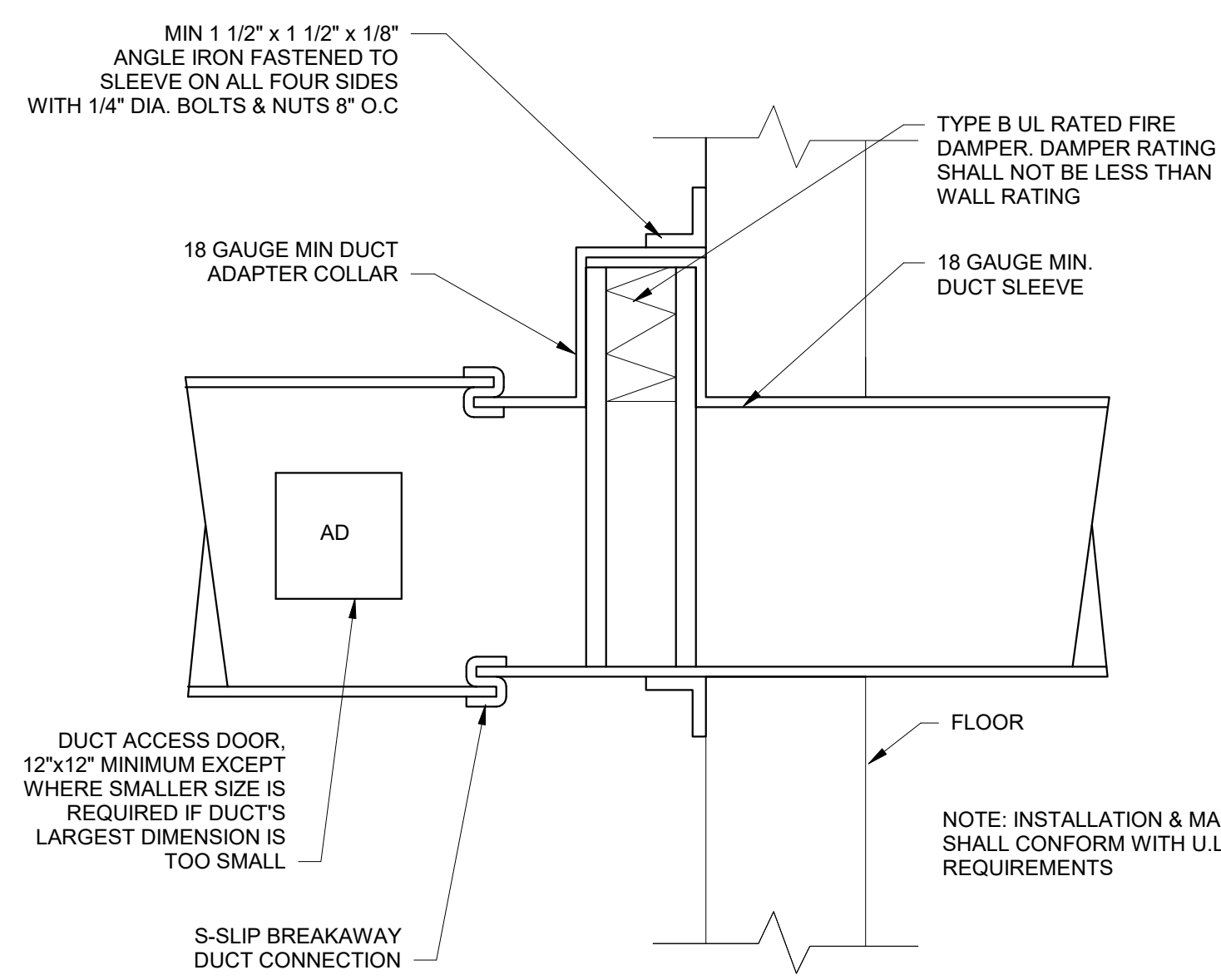
DOROTHEA DIX
BUILDING K
VENTILATION UPGRADES

BANGOR, MAINE

Harriman Project No. 18421



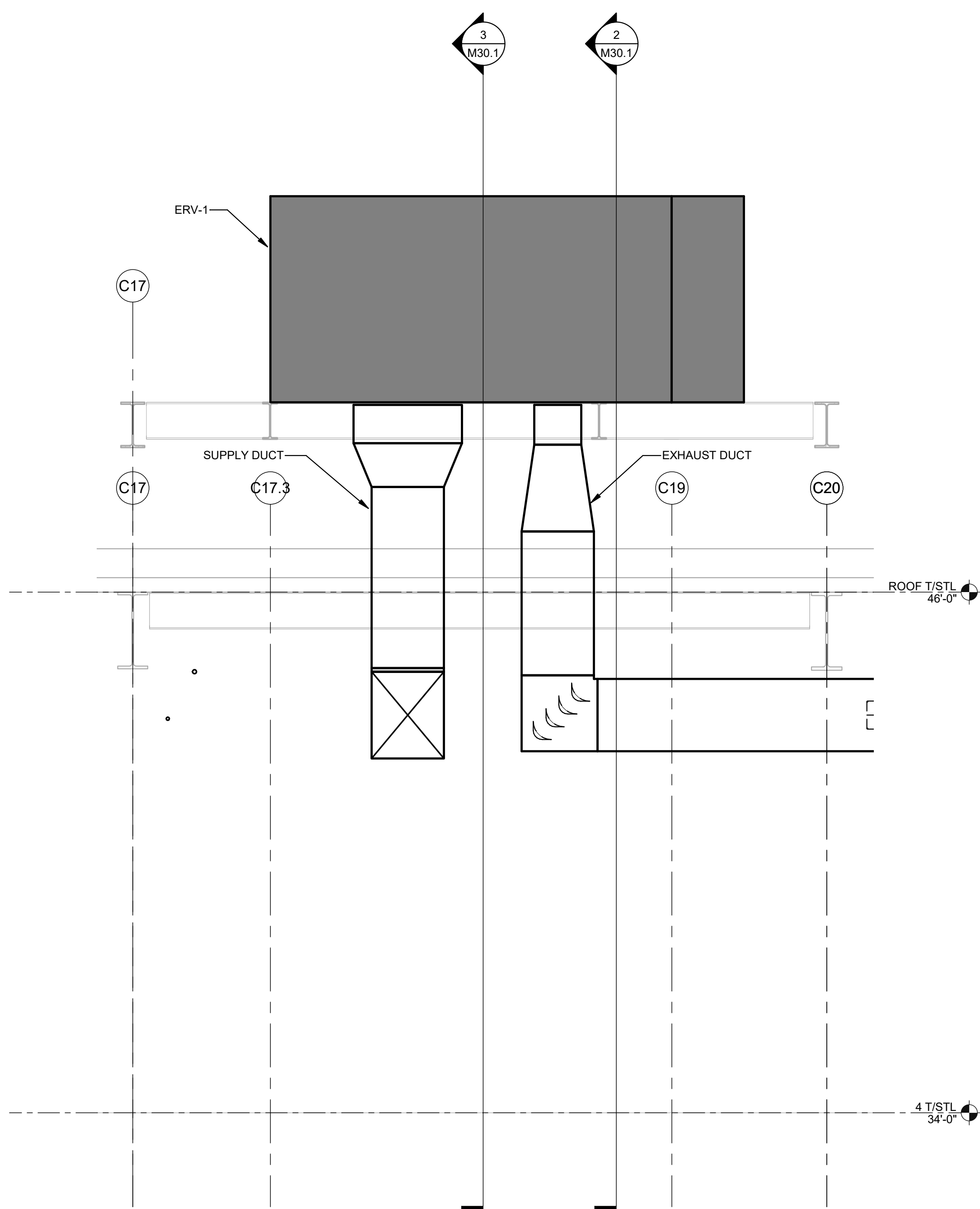
NOTES:
1. CONTROL VALVES SHALL HAVE THREADED OR FLANGED BODIES.



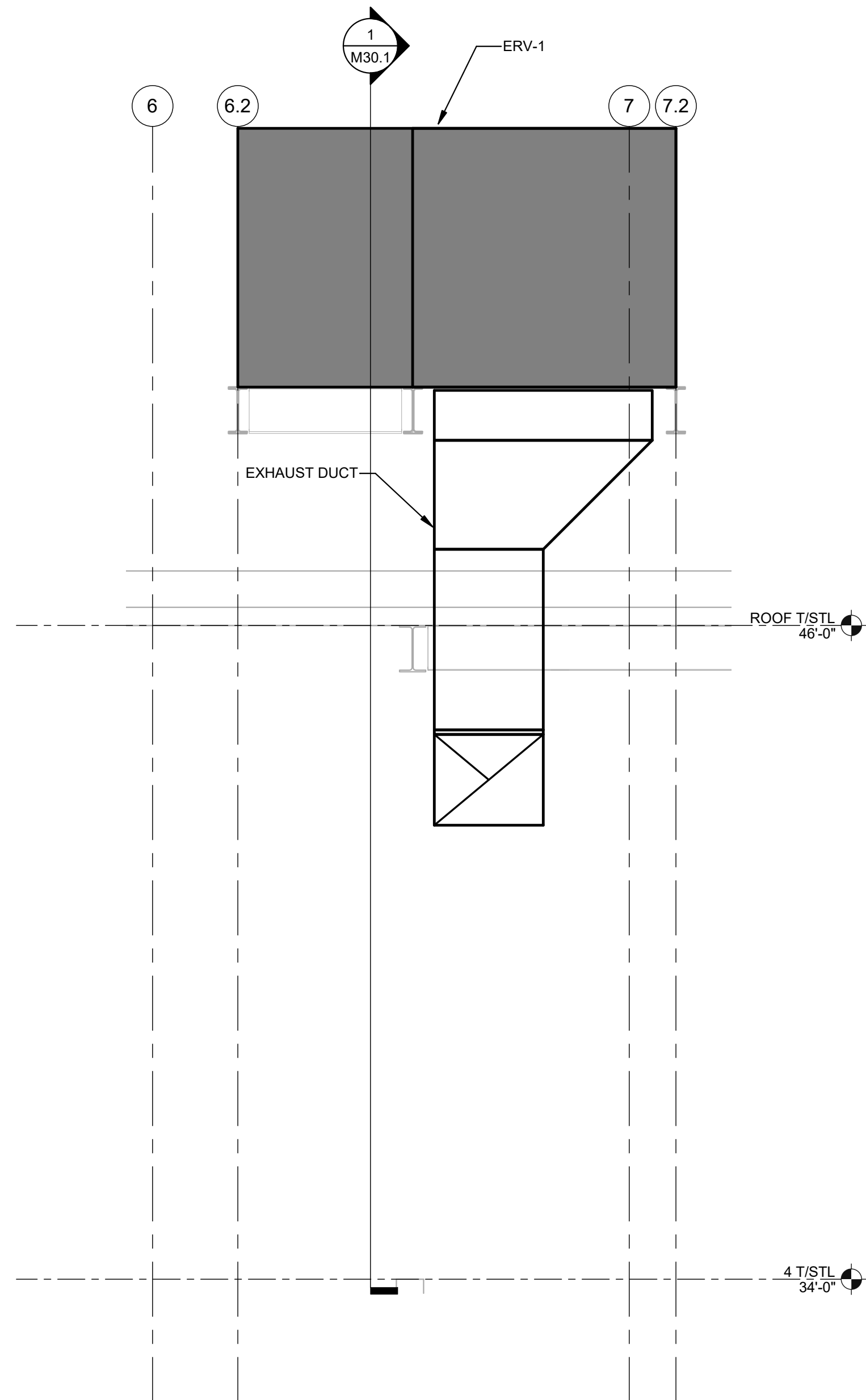
4 STEAM TO HOT WATER HEATING SYSTEM DETAIL
NO SCALE

5 FIRE DAMPER IN FLOOR
NO SCALE

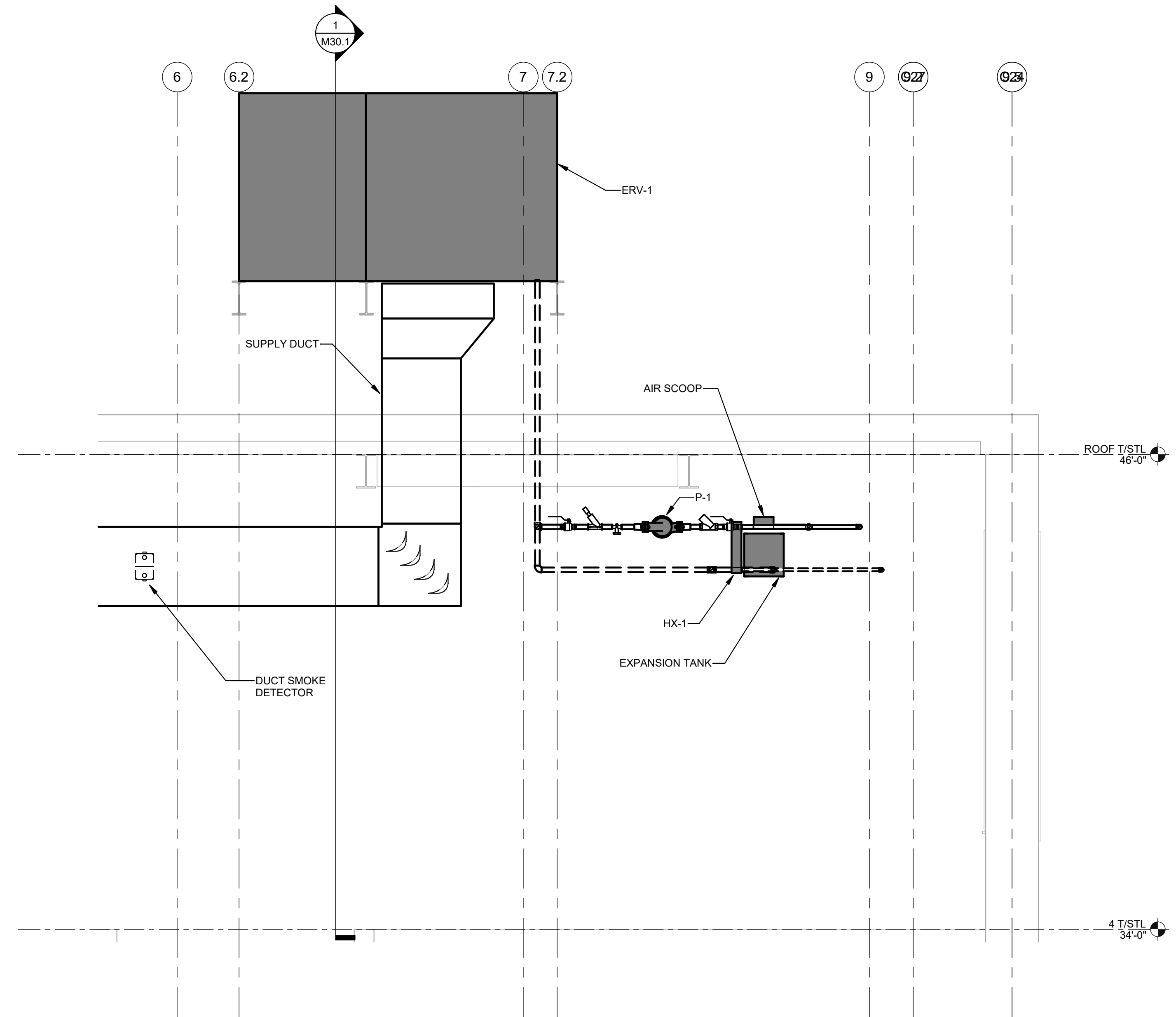
6 STEAM RADIATION BASEBOARD
NO SCALE

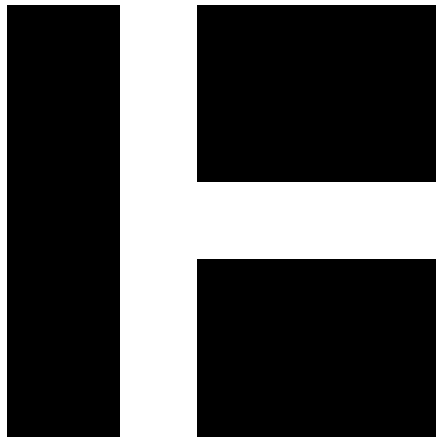


1 SECTION 1
SCALE: 1/2" = 1'-0"



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





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DOROTHEA DIX
BUILDING K
VENTILATION UPGRADES

BANGOR, MAINE

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PUMP SCHEDULE												
TAG	MANUFACTURER	MODEL	SERVICE	FLOW (GPM)	HEAD (FT.WG)	SUCTION FLANGE (IN)	SPEED (RPM)	ELECTRIC			MOTOR CONTROL	NOTES
								HP	PHASE	VOLTS		
P-1	Taco	0013	ERV-1	10.0 GPM	20	1 1/4"	3250	0.17	1	115 V	STARTER	

HEAT EXCHANGER SCHEDULE													
TAG	MANUFACTURER	MODEL	SERVICE	CAPACITY (MBTUH)	STEAM				GLYCOL HOT WATER				NOTES
					STEAM FLOW (LB/HR)	INLET TEMP. (DEG. F)	OUTLET TEMP. (DEG. F)	OPERATING PRESSURE (PSI)	EWT (DEG.F)	LWT (DEG.F)	FLOW (GPM)	FLUID TYPE	
HX-1	BELL & GOSSETT	BP405-20	ERV-1	200	209	239	239	10	140	183	10	30% PG	

REGISTERS, GRILLES & DIFFUSERS SCHEDULE											
TAG	MANUFACTURER	MODEL	TYPE	NECK SIZE (IN)	DIRECTION OF BLOW	MAX NC	MAX SP	DAMPER	FINISH	BORDER	NOTES
R1 / S1	PRICE INDUSTRIES	MSRRP	SECURITY	12 x 12	N/A	20	0.09 in-wg	NONE	BAKED ENAMEL WHITE	SURFACE MOUNT	1

FINTUBE RADIATION SCHEDULE									
TAG	MANUFACTURER	MODEL	PIPE SIZE (IN.)	CAPACITY BTU/FT	FIN DIMENSION S WxH (IN)	FPF	ROWS	ENCLOSURE DIMENSIONS W x H (IN.)	NOTES
A	STERLING GUARDIAN	GSBS-P, C3/4 435	3/4"	1430	3-1/4" SQ.	50	1	5-3/16"x 12"	STEAM

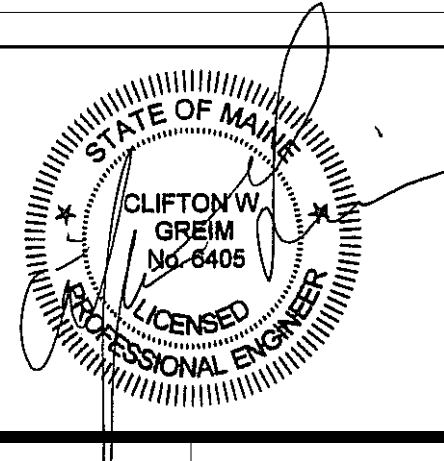
VRV SCHEDULE											
TAG	MANUFACTURER	MODEL	TOTAL HEATING CAPACITY (MBH)	TOTAL COOLING CAPACITY (MBH)	TOTAL SENSIBLE CAPACITY (MBH)	DIMENSIONS (W x H x D) in	MOUNTING TYPE	ELECTRICAL			NOTES
								MOPD	PHASE	VOLTS	
AC1-3	Daikin	FXMQ12PBVJU	13.5	12	9.7	27.5x12x27.5	HUNG FROM STRUCTURE	15	1	208 V	1.4 MCA
AC2-3	Daikin	FXMQ12PBVJU	13.5	12	9.7	27.5x12x27.5	HUNG FROM STRUCTURE	15	1	208 V	1.4 MCA
AC3-4	Daikin	FXMQ07PBVJU	8.5	7.2	6.4	21.5x12x27.5	HUNG FROM STRUCTURE	15	1	208 V	0.6 MCA
AC3-5	Daikin	FXMQ07PBVJU	8.5	7.2	6.4	21.5x12x27.5	HUNG FROM STRUCTURE	15	1	208 V	0.6 MCA
BSB1-3	DAIKIN AC (AMERICAS), INC.	BSQ36TVJ	N/A	N/A	N/A	15x8x13	HUNG FROM STRUCTURE	15	1	208 V	0.1 MCA
BSB2-3	DAIKIN AC (AMERICAS), INC.	BSQ36TVJ	N/A	N/A	N/A	15x8x13	HUNG FROM STRUCTURE	15	1	208 V	0.1 MCA
BSB3-2	DAIKIN AC (AMERICAS), INC.	BSQ36TVJ	N/A	N/A	N/A	15x8x13	HUNG FROM STRUCTURE	15	1	208 V	0.1 MCA
BSB3-3	DAIKIN AC (AMERICAS), INC.	BSQ36TVJ	N/A	N/A	N/A	15x8x13	HUNG FROM STRUCTURE	15	1	208 V	0.1 MCA

ENERGY RECOVERY VENTILATOR SCHEDULE																										
TAG	MFR	MODEL	SUPPLY AIR FLOW (CFM)	SUPPLY EXT SP (IN)	SUPPLY HP	EXHAUST AIR FLOW (CFM)	EXHAUST EXT SP (IN)	EXHAUST HP	OUTDOOR AIR				INDOOR AIR				SUPPLY AIR				ELECTRICAL			FILTER	WEIGHT (LBS)	NOTES
									SUMMER DB (DEG.F)	SUMMER WB (DEG.F)	WINTER DB (DEG.F)	WINTER WB (DEG.F)	SUMMER DB (DEG.F)	SUMMER RH (%)	WINTER DB (DEG.F)	WINTER RH (%)	SUMMER DB (DEG.F)	SUMMER WB (DEG.F)	WINTER DB (DEG.F)	WINTER WB (DEG.F)	VOLTS	PHASE	MCA	EFFY		
ERV-1	DAIKIN	DPS010A	4000	1	4	4000	1	4	90 °F	74 °F	-10 °F	-10 °F	75 °F	62	70 °F	20	81 °F	67 °F	36 °F	29 °F	208 V	3	53.5	MERV 8	2490 LBS	

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SCHEDULES

M40.1

	<p>HOMERUN TO PANELBOARD - ARROWS INDICATE NUMBER OF CIRCUITS. CROSS LINES INDICATE NUMBER OF CONDUCTORS OTHER THAN TWO (PROVIDE NUMBER OF WIRES REQUIRED TO ALLOW SWITCHING SHOWN).</p> <p>CIRCUIT NUMBER(S)</p> <p>PANEL DESIGNATION</p> <p>DUPLEX RECEPTACLE MOUNTED C/L UP 24" AFF</p> <p>QUAD DOUBLE DUPLEX RECEPTACLE MOUNTED C/L UP 24" AFF</p> <p>GFI DUPLEX RECEPTACLE MOUNTED C/L UP 24" AFF</p> <p>JUNCTION BOX</p> <p>FUSED DISCONNECT</p> <p>UNFUSED DISCONNECT</p> <p>MANUAL MOTOR STARTER OR APPLIANCE CONTROL</p> <p>PANELBOARD</p> <p>FIRE ALARM DUCT SMOKE DETECTOR</p> <p>"WP" INDICATES WEATHER PROOF</p> <p>EXISTING ITEMS SHOWN DASHED</p>
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1. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE LATEST EDITION OF NFPA 70, NATIONAL ELECTRICAL CODE, AND THE 2014 NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) REGULATIONS OF THE PERTINENT FEDERAL, STATE, COUNTY, AND CITY AGENCIES. PROVIDE MATERIALS AND EQUIPMENT COMPLIANT WITH ALL APPLICABLE CODES, ORDINANCES, AND STANDARDS, WHERE APPLICABLE. PROVIDE ONLY MATERIALS THAT ARE U.L. LISTED AND LABELED.
2. THE ELECTRICAL SUBCONTRACTOR SHALL VISIT THE SITE AND INSPECT EXISTING CONDITIONS, SERVICES, CONDITIONS, AND UTILITIES. THE ELECTRICAL SUBCONTRACTOR SHALL CONDITIONS TO FULLY FAMILIARIZE HIMSELF WITH CONDITIONS TO BE ENCOUNTERED IN THE PERFORMANCE OF THIS WORK. THE ELECTRICAL SUBCONTRACTOR SHALL COORDINATE THIS WORK WITH THE GENERAL CONTRACTOR DURING CONSTRUCTION. FAILURE TO DO SO WILL NOT RELIEVE THE ELECTRICAL SUBCONTRACTOR OF THE RESPONSIBILITY FOR FULL COMPLETION OF THE WORK IN ACCORDANCE WITH APPLICABLE DRAWINGS AND SPECIFICATIONS. THE ELECTRICAL SUBCONTRACTOR WILL BE UTILIZED FOR CONNECTION TO THE NEW SYSTEM. IF DISCREPANCIES EXIST BETWEEN THE CONTRACT DRAWINGS AND THE EXISTING CONDITIONS, THE ELECTRICAL SUBCONTRACTOR SHALL NOTIFY THE ENGINEER/OWNER PRIOR TO PROCEEDING WITH THE INSTALLATION.
3. CONDUIT RUNS ARE SHOWN DIAGRAMMATICALLY. INSTALL CONDUIT WITH A MINIMUM OF 18" COVER. MAINTAIN ADEQUATE PRACTICAL DISTANCE CONSIDERING THE BUILDINGS CONSTRUCTION AND OBSTRUCTIONS, EXCEPT WHERE OTHERWISE NOTED.
4. ALL MOTOR SAFETY SWITCHES, DISCONNECTS AND MOTOR STARTERS THAT ARE NOT PROVIDED BY OTHER DIVISIONS, SHALL BE PROVIDED BY DIVISION 26, UNLESS SPECIFICALLY NOTED OTHERWISE.
5. ALL PENETRATIONS THROUGH FIRE-RATED FLOORS, WALLS OR PARTITIONS SHALL BE PROTECTED WITH APPROVED FIRE SEALANT MATERIAL TO MAINTAIN THE RATING OF THE SEPARATION.
6. ALL VARIABLE FREQUENCY DRIVES (VFD) SHALL BE PROVIDED BY MECHANICAL DIVISION. VFD'S SHALL BE INSTALLED BY ELECTRICAL CONTRACTOR. ELECTRICAL CONTRACTOR SHALL CIRCUIT ALL VFDs AND PROVIDE ALL MOTOR STARTER SWITCHES AND DISCONNECT SWITCHES.
7. UNLESS OTHERWISE NOTED, WIRING SHALL BE #12 AWG THHN/ALUMINUM TYPE, 90°C, 600V INSULATED SINGLE POLE CIRCUITS IN EXCESS OF 100 FEET SHALL BE #210 AWG UNLESS INDICATED OTHERWISE. INSULATION TYPE SHALL BE 90°C, 600V, 15 DEG. C, AND 600V CLASS UNLESS SPECIFICALLY NOTED OTHERWISE.

8. FLEXIBLE CONNECTIONS TO MOTORS SHALL BE FLEXIBLE LIQUID TIGHT CONDUIT.
9. UNLESS OTHERWISE NOTED, ALL WIRING SHALL BE 600V, COPPER WITH THHN-THWN INSULATION.
10. ALL GENERAL NOTES, SYMBOLS, LISTS, ABREVIATIONS AND DETAILS ARE TO BE CONSIDERED APPLICABLE TO ALL ELECTRICAL DRAWINGS FOR THIS PROJECT.
11. WHERE A DISCREPANCY OCCURS BETWEEN THE DRAWINGS AND THE SPECIFICATIONS, THE SPECIFICATIONS SHALL PREVAIL. CONTACT THE ENGINEER FOR CLARIFICATION WHEN SUCH A SITUATION OCCURS.
12. WHERE MATERIAL IS CALLED OUT IN THE LEGEND BY MANUFACTURER, TYPE OR CATALOG NUMBER, SUCH DESIGNATIONS ARE TO ESTABLISH STANDARDS OR DESIRED QUALITY. ACCEPTANCE OR REJECTION OF THE PROPOSED SUBSTITUTION SHALL BE SUBJECT TO THE APPROVAL OF THE OWNER.
13. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATION OF EQUIPMENT, DEVICES, AND FURNITURE REQUIREMENTS, PRIOR TO ROUGHING IN FOR SAME.
14. IN AREAS AFFECTED BY THIS RENOVATION, THE ELECTRICAL SUBCONTRACTOR SHALL MAINTAIN CONTINUITY OF EXISTING ELECTRICAL SERVICE.
15. PRIOR TO REMOVAL OF EQUIPMENT, THE OWNER WILL INDICATE WHICH EXISTING DEVICES OR MATERIALS SHALL BE SALVAGED AND TURNED OVER FOR STORAGE.
16. WHERE EXISTING EQUIPMENT AND DEVICES ARE TO BE RELOCATED, ALL ASSOCIATED WIRING, CONDUIT AND ACCESSORIES SHALL BE REMOVED, RELOCATED OR REPLACED WHERE REQUIRED.
17. WHERE IT IS INDICATED THAT EXISTING WIRING IS TO BE REUSED, THE ELECTRICAL SUBCONTRACTOR SHALL VERIFY THAT THE INTEGRITY OF THE INSULATION IS SUFFICIENT FOR REUSE. IF NOT, THE WIRING SHALL BE REPLACED BY THE SUBCONTRACTOR.
18. PROVIDE TEMPORARY LIGHT AND POWER AS REQUIRED WITHIN THE CONSTRUCTION SCOPE OF WORK AREA.


1. MODIFY THE EXISTING NOTIFIER
MAIN FIRE ALARM CONTROL PANEL TO
ACCOMMODATE THE NEW DEVICES INDICATED.
PROVIDE NEW ZONES (IDENTIFY AS REQUIRED),
NEW CONTACTS, ADDITIONAL POWER SUPPLIES
AND ALL OTHER ACCESSORIES FOR A COMPLETE
AND OPERATIONAL SYSTEM.
 - a. PROVIDE NEW FIRE ALARM DUCT SMOKE
DETECTORS WHERE INDICATED.
 - b. MAKE ALL CONNECTIONS AS REQUIRED.
 - c. PROVIDE ALL REQUIRED PROGRAMMING.
2. REFER TO ELECTRICAL DRAWINGS FOR QUANTITIES
AND LOCATIONS OF ALL FIRE ALARM DEVICES
ASSOCIATED WITH FIRE PROTECTION SYSTEMS.

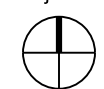
FIRE ALARM	—	RED
SIGNAL (NURSE CALL, PA)	—	PURPLE
AUDIO VISUAL	—	WHITE
480V	—	BROWN
277V	—	ORANGE
120V	—	BLUE
208V	—	BLACK

B2

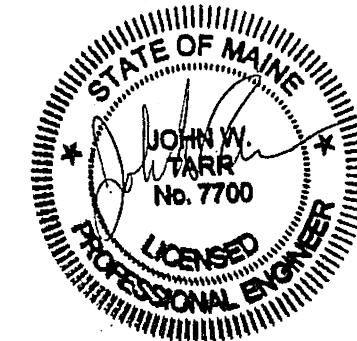
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BANGOR, MAINE

Harriman Project No.	18421
Key Plan	Proj North 

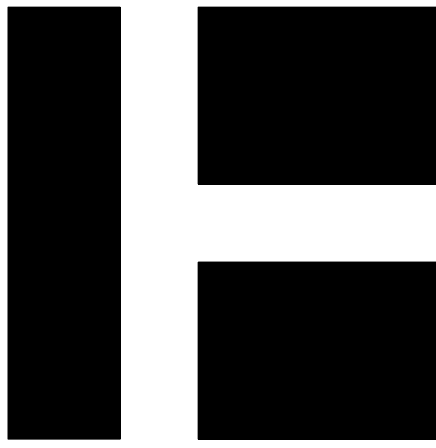


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Drawing Scales	
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E00.1



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DOROTHEA DIX
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VENTILATION UPGRADES

BANGOR, MAINE

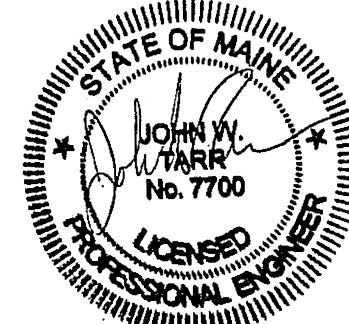
Harriman Project No.	18421
Key Plan	Proj North



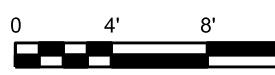
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Drawing Scales
1/8" = 1'-0"



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FIRST FLOOR
EXISTING CONDITIONS
PLAN

E05.1

DEMOLITION NOTES:

- ELECTRICAL INDICATED IS AS GENERALLY FOUND (APRIL 2017). THE INTENT OF THE DEMOLITION PLAN(S) IS TO DOCUMENT EXISTING CONDITIONS. HOWEVER, ALL ELECTRICAL DEVICES MAY NOT NECESSARILY BE INDICATED ON THE DRAWINGS. FIELD VERIFY AND ADJUST WORK TO SUIT ALL FOUND.
- REFER TO FLOOR PLANS TO DETERMINE EXTENT OF WORK IN EACH AREA, INCLUDING WHETHER DEVICES ARE TO REMAIN, BE REMOVED, REPLACED, ETC... EXCEPT AS NOTED, GENERALLY THE INTENT IS THAT IF EXISTING DEVICES ARE SHOWN ON THE DEMOLITION PLANS AND NEW DEVICES ARE SHOWN ON THE FLOOR PLANS THEN EXISTING DEVICES ARE TO BE REMOVED. IF EXISTING DEVICES ARE SHOWN ON BOTH THEN DEVICES ARE TO REMAIN.
- ALL EXISTING ITEMS INTENDED FOR REMOVAL SHALL BE REMOVED WITH ALL ASSOCIATED HARDWARE INCLUDING, BUT NOT LIMITED TO: CONDUIT, BOXES, WIRING, CABLES, HANGERS, ETC...
- COORDINATE WITH MECHANICAL AND PLUMBING DRAWINGS FOR MECHANICAL AND PLUMBING EQUIPMENT TO BE REMOVED. REMOVE ALL ASSOCIATED CONDUIT, BOXES, WIRING, ETC...
- CONDUIT IN GOOD CONDITION AND PROPERLY LOCATED MAY BE REUSED WHERE APPLICABLE. UNLESS NOTED OTHERWISE.
- IN AREAS NOT RENOVATED BY THIS CONTRACT VERIFY THAT ELECTRICAL POWER, LIGHTING AND SYSTEMS ARE NOT AFFECTED BY THE ALTERATIONS. PROVIDE ALL WORK AS REQUIRED TO MAINTAIN POWER AND PROPER OPERATION OF SYSTEMS.

LEGEND:

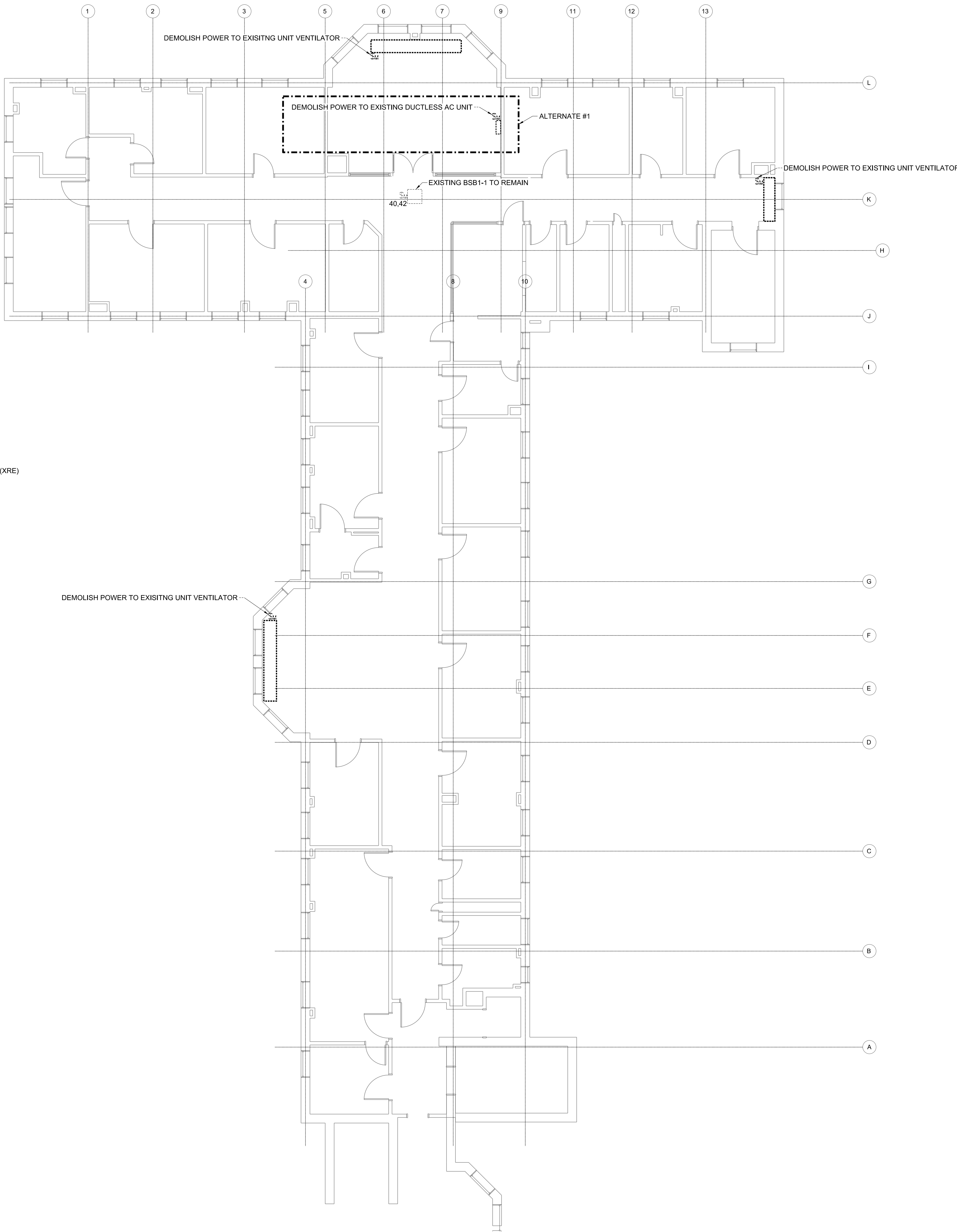
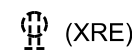
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EXISTING EQUIPMENT TO BE DEMOLISHED IS INDICATED AS BOLD AND DASHED:



EXISTING EQUIPMENT TO BE BE MODIFIED IS INDICATED AS BOLD AND DASHED WITH TEXT ADJACENT:





AUBURN BOSTON PORTLAND PORTSMOUTH

DOROTHEA DIX
BUILDING K
VENTILATION UPGRADES

BANGOR, MAINE

18421



DEMOLITION NOTES:

1. ELECTRICAL INDICATED IS AS GENERALLY FOUND (APRIL 2017). THE INTENT OF THE DEMOLITION PLAN(S) IS TO DOCUMENT EXISTING CONDITIONS. HOWEVER, ALL ELECTRICAL WORK MAY NOT NECESSARILY BE SHOWN ON THE DRAWINGS. FIELD VERIFY AND ADJUST WORK TO SUIT ALL FOUND.
2. REFER TO FLOOR PLANS TO DETERMINE EXTENT OF WORK IN EACH AREA, INCLUDING WHETHER DEVICES ARE TO REMAIN, BE REMOVED, REPLACED, ETC.. EXCEPT AS NOTED, GENERALLY THE SAME WHAT IS SHOWN ON THE DEMOLITION PLAN(S). THE DEMOLITION PLANS AND NEW DEVICES ARE SHOWN ON THE FLOOR PLANS THEN EXISTING DEVICES ARE TO BE REMOVED, IF EXISTING DEVICES ARE SHOWN ON BOTH THEN DEVICES ARE TO REMAIN.
3. ALL EXISTING ITEMS IDENTIFIED FOR REMOVAL SHALL BE REMOVED WITH THE DEMOLITION. THIS INCLUDES, BUT IS NOT LIMITED TO, CLOSET, BOXES, WIRING, CABLES, HANGERS, ETC...
4. COORDINATE WITH MECHANICAL AND PLUMBING DRAWINGS FOR MECHANICAL AND PLUMBING EQUIPMENT TO BE REMOVED, REMOVE ALL ASSOCIATED CLOSET, BOXES, WIRING, ETC.
5. CONDUIT IN GOOD CONDITION AND PROPERLY LOCATED MAY BE REUSED WHERE APPLICABLE, UNLESS NOTED OTHERWISE.
6. IN AREAS NOT RENOVATED BY THIS CONTRACT VERIFY THAT ELECTRICAL POWER, LIGHTING AND SYSTEMS ARE NOT AFFECTED BY THE ALTERATIONS. PROVIDE ALL WORK AS REQUIRED TO MAINTAIN POWER AND LIGHTING TO REMAIN AREAS.

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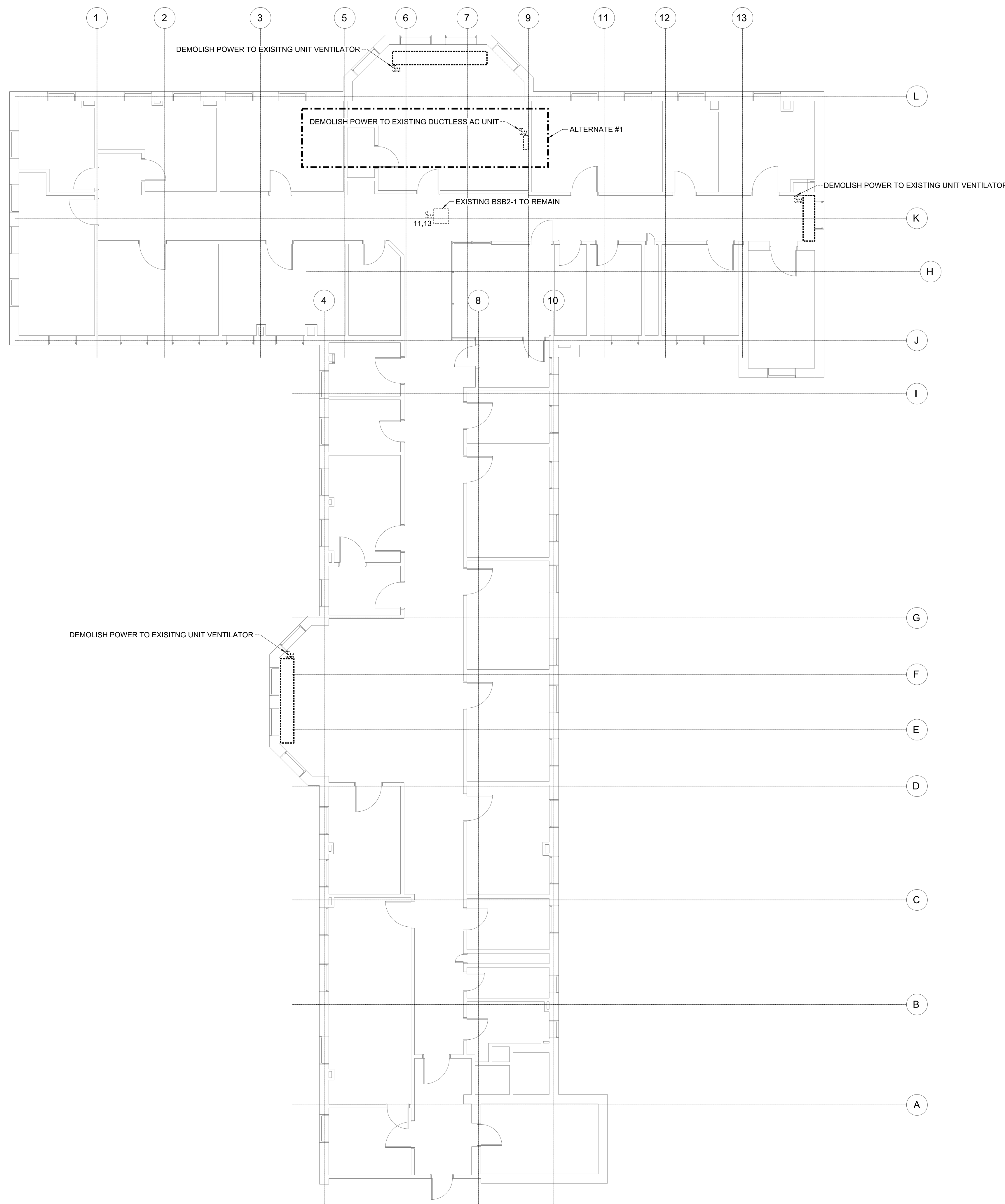
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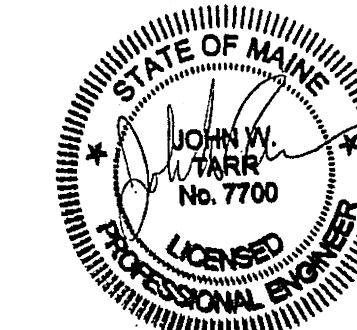


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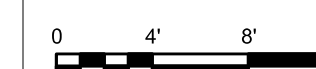


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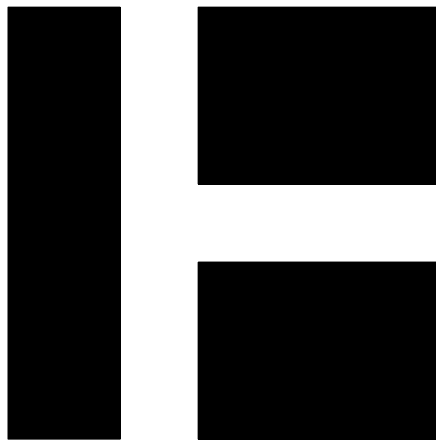
Drawing Scales
1/8" = 1'-0"



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SECOND FLOOR
EXISTING CONDITIONS
PLAN

E05.2



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BUILDING K
VENTILATION UPGRADES

BANGOR, MAINE

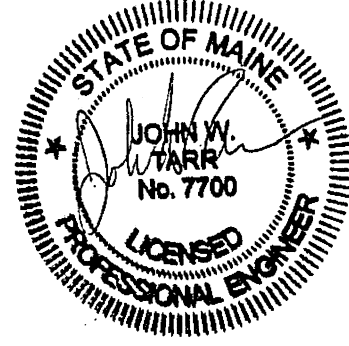
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Key Plan	Proj North



CONSTRUCTION DOCUMENTS

APRIL 19, 2019

Rev Date	Revision Description



Drawing Scales 1/8" = 1'-0"	0 4' 8' 12'
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THIRD FLOOR
EXISTING CONDITIONS
PLAN

E05.3

DEMOLITION NOTES:

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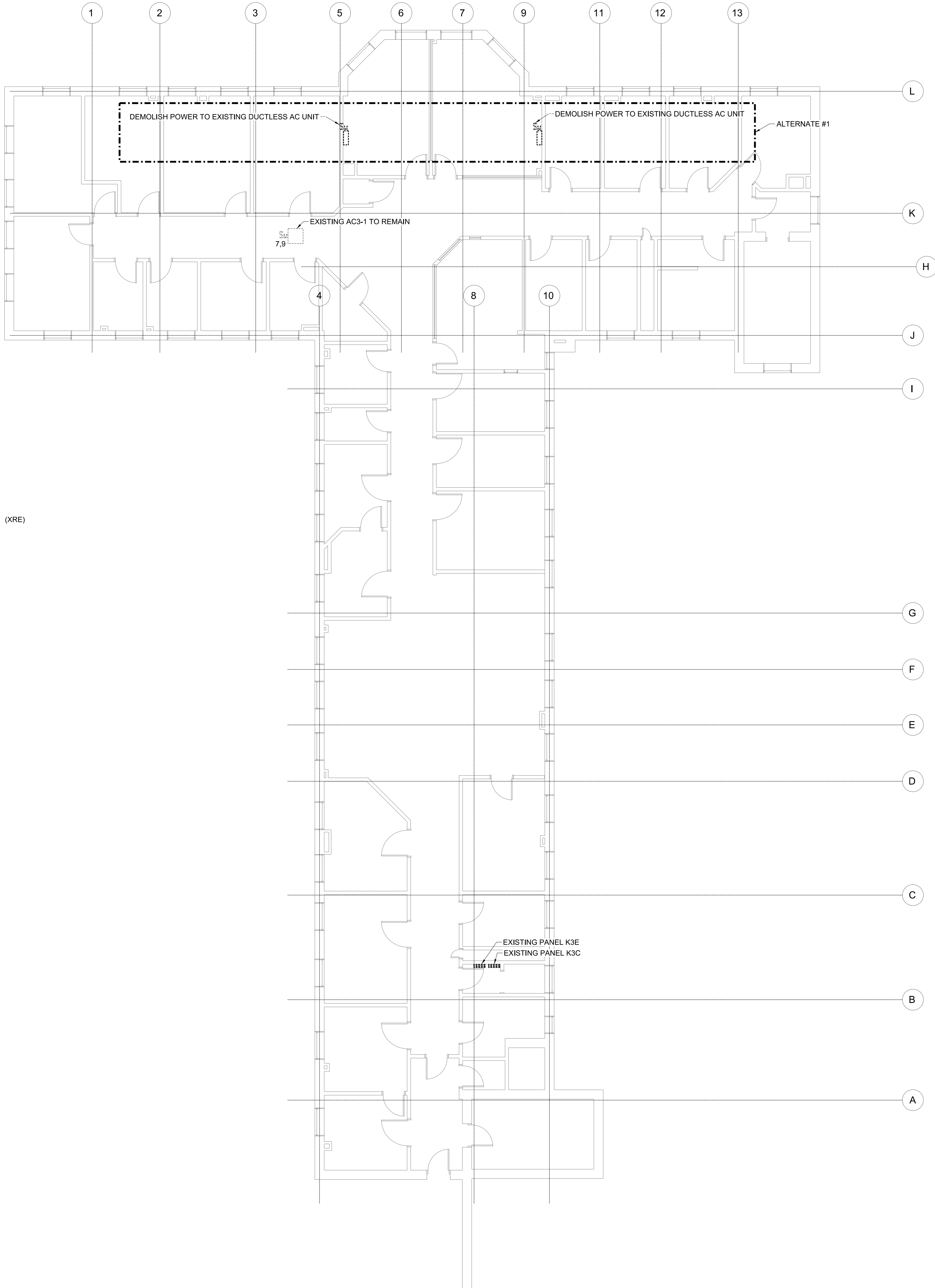
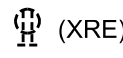
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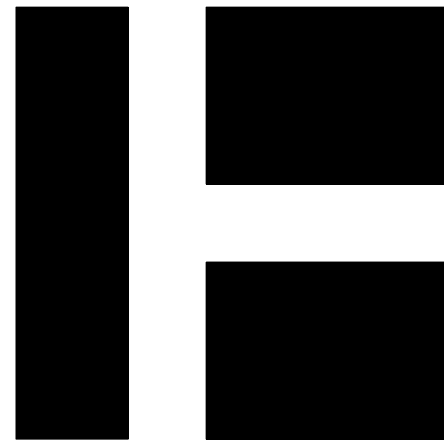


EXISTING EQUIPMENT TO BE DEMOLISHED IS INDICATED AS BOLD AND DASHED:



EXISTING EQUIPMENT TO BE BE MODIFIED IS INDICATED AS BOLD AND DASHED WITH TEXT ADJACENT: (XRE)





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BANGOR, MAINE

Harriman Project No. 18421

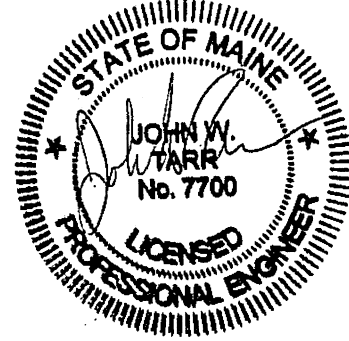
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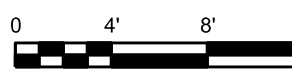
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Rev Date Revision Description



Drawing Scales
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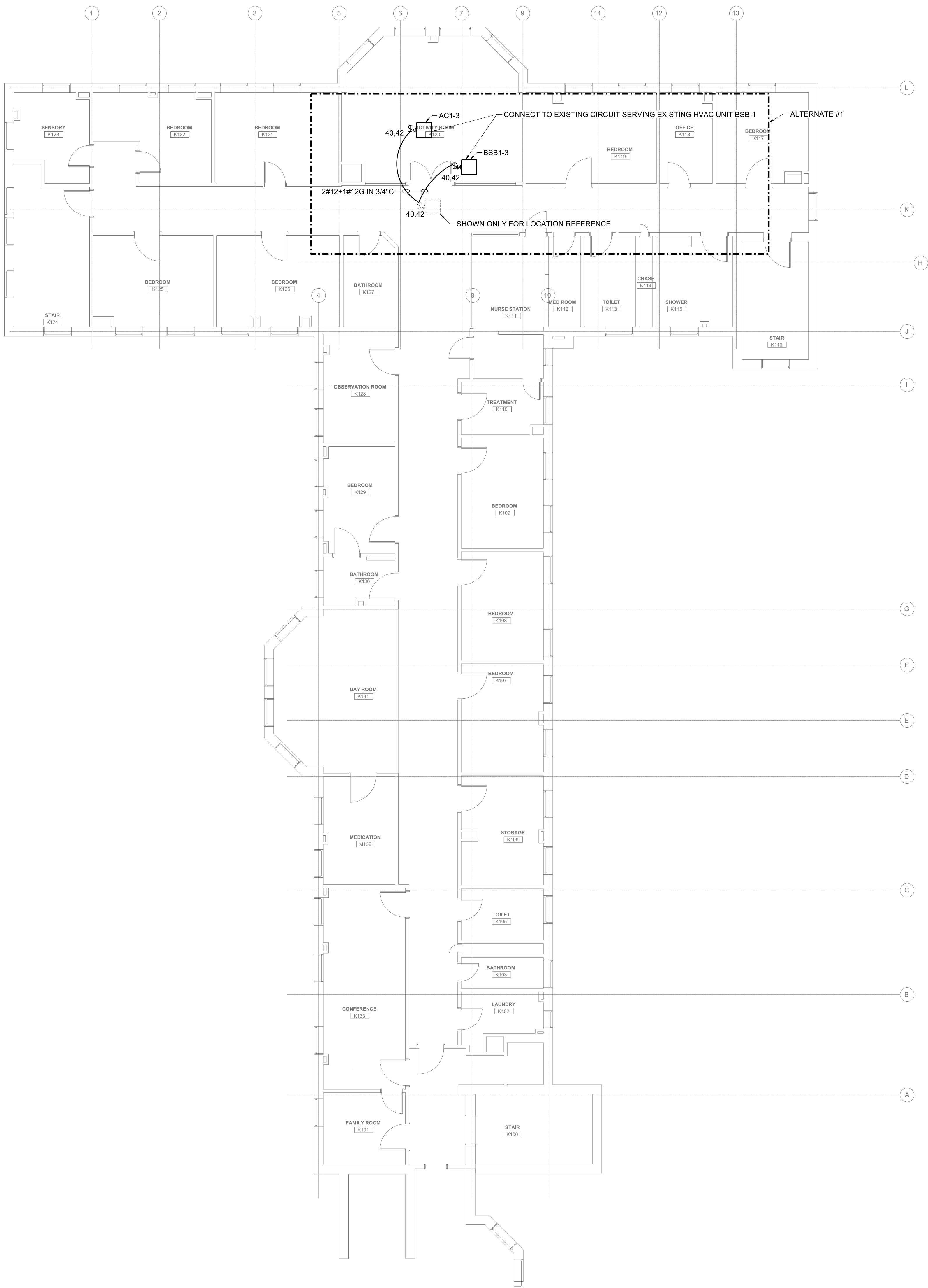


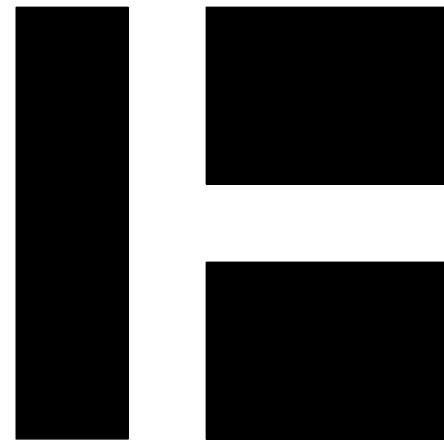
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FIRST FLOOR
PLAN
POWER AND SYSTEMS

E20.1





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BANGOR, MAINE

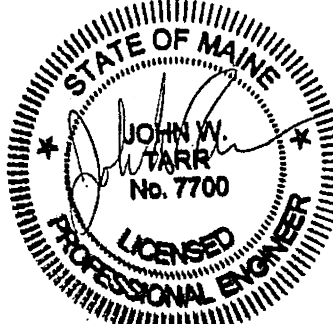
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Key Plan	Proj North



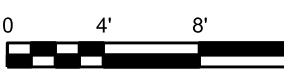
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APRIL 19, 2019

Rev	Date	Revision Description



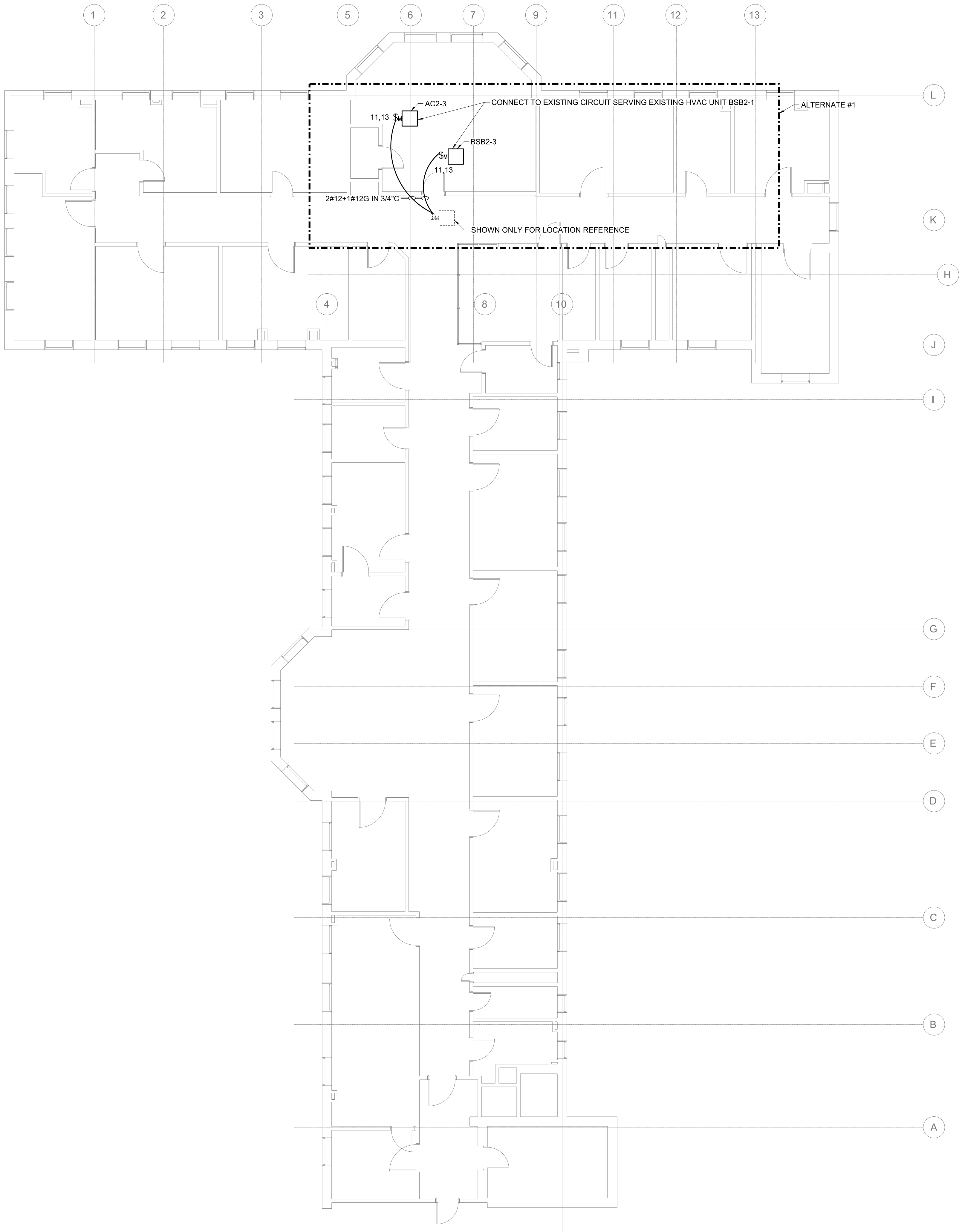
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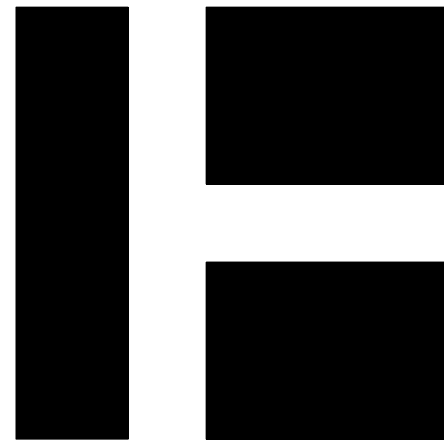


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SECOND FLOOR
PLAN
POWER AND SYSTEMS

E20.2





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DOROTHEA DIX
BUILDING K
VENTILATION UPGRADES

BANGOR, MAINE

Harriman Project No.

18421

Key Plan

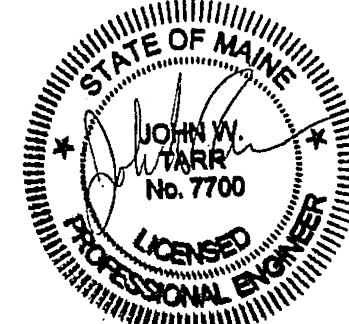
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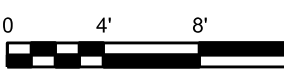
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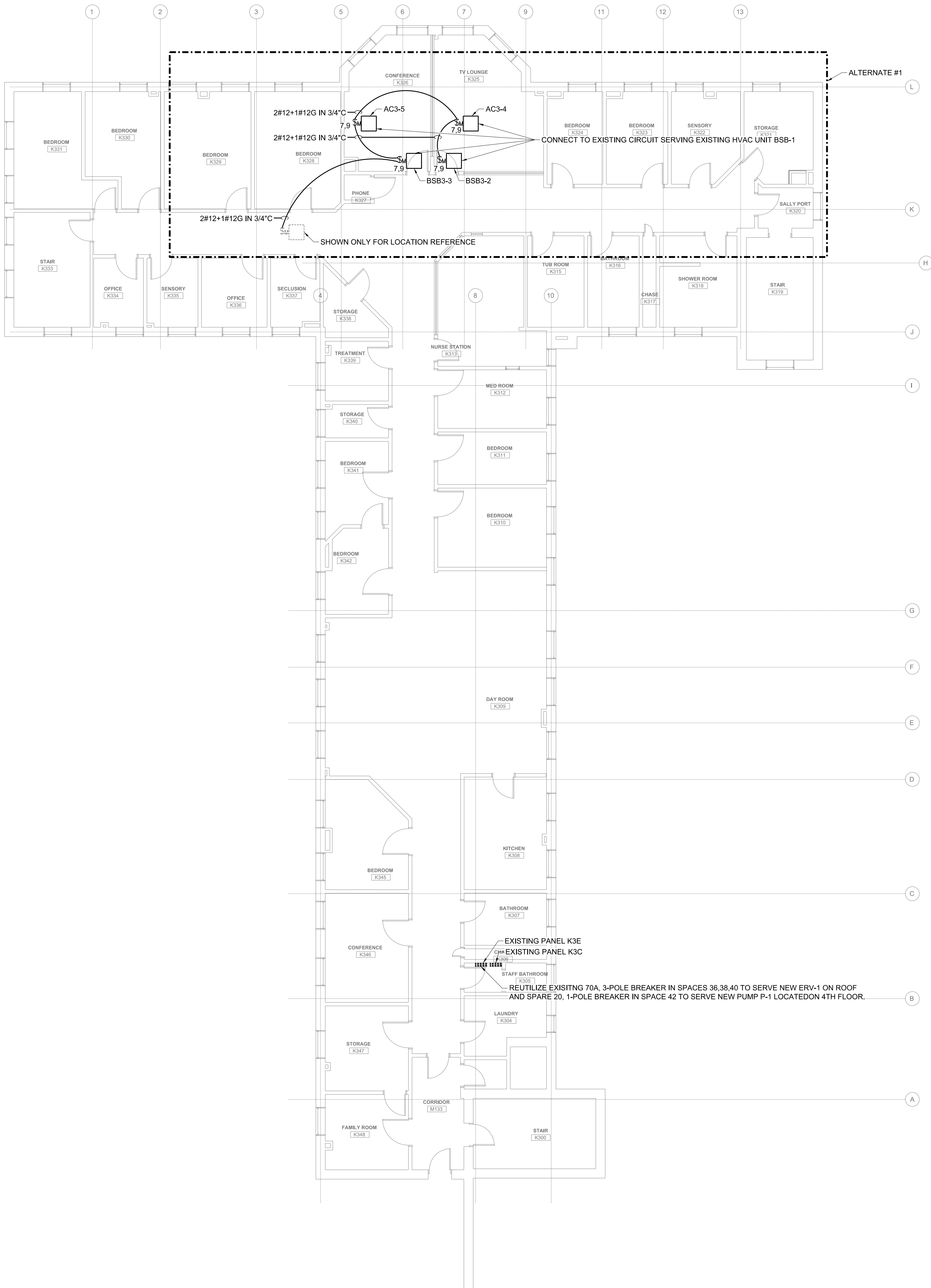
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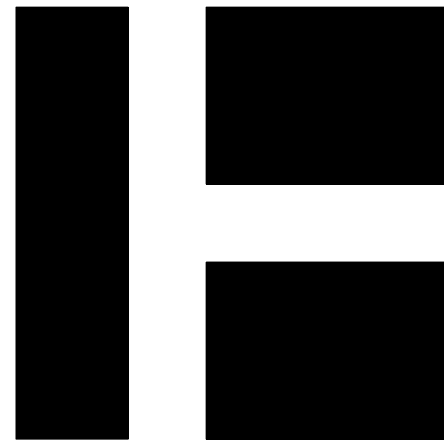
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THIRD FLOOR
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POWER AND SYSTEMS

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VENTILATION UPGRADES

BANGOR, MAINE

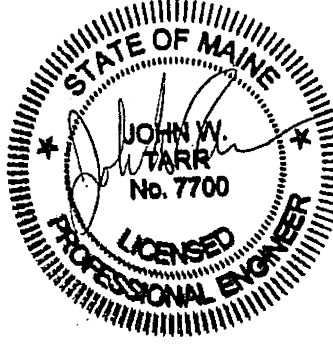
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Key Plan	Proj North



CONSTRUCTION DOCUMENTS

APRIL 19, 2019

Rev	Date	Revision Description



Drawing Scales 1/8" = 1'-0"	0 4' 8' 12'
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ROOF
PLAN
POWER AND SYSTEMS

E20.4

