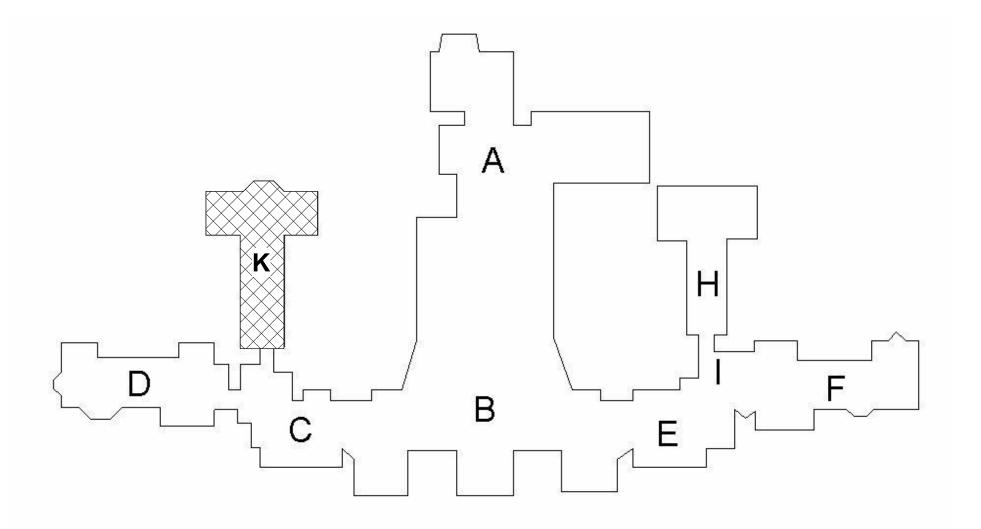
# DORTHEA DIX BUILDING K VENTILATION UPGRADES BANGOR, MAINE



## **CONSTRUCTION DOCUMENTS** APRIL 19, 2019





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DOROTHEA DIX CAMPUS



G00.1

ABT AC ACB ACT AD ADJ AFF AFG	AIR CONDITIONING ANCHOR BOLT ABOUT ACOUSTICAL ABOVE CEILING BELOW ACOUSTICAL TILE ACCESS DOOR ADJUSTABLE ABOVE FINISH FLOOR ABOVE FINISH GRADE ACOUSTICAL LINING
AL ALT AP APX	ALUMINUM ALTERNATE ACCESS PANEL APPROXIMATE ARCHITECT (URAL)
BLDG	BOTTOM OF WALL BOARD BACKDRAFT DAMPER BITUMINOUS BAR JOIST BUILDING BLOCKING BENCH MARK BOTTOM OF FOOTING BOTTOM BEARING PLATE BASEMENT BASE PLATE BRITISH THERMAL UNIT
CFM CG CHBD CHT CHWS CI CJT CL CLG CMP CMU COL COL CONC COL CONC CONST CONST CONST CONT CONT CONT CONT CONT CONT CONT CON	CABINET CATCHBASIN CEILING DIFFUSER CEMENT (ITIOUS) CERAMIC CUBIC FEET CUBIC FEET PER MINUTE CEILING GRILLE CHALKBOARD CEILING HEIGHT CHILLED WATER SUPPLY CAST IRON CONTROL JOINT CLOSET CEILING CENTIMETER (S) CORRUGATED METAL PIPE CONCRETE MASONRY UNIT CLEANOUT COLUMN CONCRETE CONNECT CONSTRUCTION CONTRACT (OR) CONTRACT (OR) CONTRACT (OR) CONTRACT (ED) CONDENSATE RETURN CERAMIC TILE CABINET UNIT HEATER CULVERT CONVECTOR COLD WATER CUBIC YARD
DF DF DG DH DIA DIAG DIM DIV DL DMT DN DTL DW	DOUGLAS FIR DRINKING FOUNTAIN DOOR GRILLE DOUBLE HUNG DIAMETER DIAGONAL DIMENSION DIVISION DEAD LOAD DEMOUNTABLE DOWN DETAIL DUCT WRAP



	DRAWING	LB (S)	POUNDS
DWG	2	LD	LINEAR DIFFUSER
Е	EAST	LD	LINED DUCT
EB	EXPANSION BOLT	LF	LAWN FAUCET
EF	EXHAUST FAN	LF	LINEAL FEET
EIFS	EXTERIOR INSULATED	LG	LONG
	FINISH SYSTEM	LL	LIVE LOAD
EJ	EXPANSION JOINT	LPS	LOW PRESSURE STEAM
EL	ELEVATION (S)		
		LTG	LIGHTING
ELEC	ELECTRIC (AL)	LTL	LINTEL
EM	ELECTRIC MANHOLE	LTW	LOW TEMPERATURE STEAM
EP	ELECTRIC PANEL	LW	LIMIT OF WORK
EQ	EQUAL		
ER	EXHAUST REGISTER	М	METER (S)
ES	EACH SIDE	MAS	MASONRY
EST	ESTIMATE		
		MAX	MAXIMUM
EWC	ELECTRIC WATER COOLER	MBH	1000 BRITISH THERMAL
EXG	EXISTING		UNIT
EXP	EXPANSION	MD	MANUAL DAMPER
EXT	EXTERIOR	MD	MOTORIZED DAMPER
		MECH	MECHANICAL
FA	FIRE ALARM	MED	MEDIUM
FAI	FRESH AIR INTAKE	MED	METAL
FC	FLEXIBLE CONNECTION	MFR	MANUFACTURE (R)
FCO	FLOOR CLEANOUT	MH	MANHOLE
FD	FIRE DAMPER	MIN	MINIMUM
FD	FLOOR DRAIN	MISC	MISCELLANEOUS
FD	FOUNDATION DRAIN	MM	MILLIMETER (S)
FE	FIRE EXTINGUISHER	MO	MASONRY OPENING
FHS	FIRE HOSE STATION	MR	MOP RECEPTOR
FIN	FINISH (ED)	MT	METAL THRESHOLD
FL	FINISH LENGTH	MTD	MOUNTED
FLG	FLASHING		
FLR	FLOOR (ING)	Ν	NORTH
	FACE OF CONCRETE		
FOC		NA	NOT APPLICABLE
FOS	FACE OF STUD	NC	NORMALLY CLOSED
FRR	FLOOR RETURN REGISTER	NIC	NOT IN CONTRACT
FS	FAR SIDE	NO	NORMALLY OPEN
FTG	FOOTING	No	NUMBER
FY	MINIMUM YIELD STRESS	NS	NEAR SIDE
	(KSI)	NTS	NOT TO SCALE
	()	INT S	NOT TO SCALE
GA	GAGE, GAUGE	OC	ON CENTER (S)
GALV	GALVANIZED	OD	OUTSIDE DIAMETER
GB	GRAB BAR	OED	OPEN END DUCT
	GENERAL CONTRACT (OR)	OFF	OFFICE
GC		-	OVERHEAD
		ОН	
GL	GLASS	OH	
GL GPDW	GLASS GYPSUM DRY WALL	OPG	OPENING
gl GPDW GPM	GLASS GYPSUM DRY WALL GALLONS PER MINUTE	OPG OPH	OPENING OPPOSITE HAND
GL GPDW	GLASS GYPSUM DRY WALL	OPG	OPENING
gl GPDW GPM	GLASS GYPSUM DRY WALL GALLONS PER MINUTE	OPG OPH	OPENING OPPOSITE HAND
gl GPDW GPM	GLASS GYPSUM DRY WALL GALLONS PER MINUTE	OPG OPH	OPENING OPPOSITE HAND
GL GPDW GPM GV	GLASS GYPSUM DRY WALL GALLONS PER MINUTE GATE VALVE	OPG OPH OPP P	OPENING OPPOSITE HAND OPPOSITE PLATE
GL GPDW GPM GV H HB	GLASS GYPSUM DRY WALL GALLONS PER MINUTE GATE VALVE HARDENER HOSE BIB	OPG OPH OPP P P	OPENING OPPOSITE HAND OPPOSITE PLATE PLUMBING
GL GPDW GPM GV H HB HD	GLASS GYPSUM DRY WALL GALLONS PER MINUTE GATE VALVE HARDENER HOSE BIB HUB DRAIN	OPG OPH OPP P P P	OPENING OPPOSITE HAND OPPOSITE PLATE PLUMBING PUMP
GL GPDW GPM GV H HB HD HM	GLASS GYPSUM DRY WALL GALLONS PER MINUTE GATE VALVE HARDENER HOSE BIB HUB DRAIN HOLLOW METAL	OPG OPH OPP P P PAR	OPENING OPPOSITE HAND OPPOSITE PLATE PLUMBING PUMP PARALLEL
GL GPDW GPM GV H HB HD HM HORIZ	GLASS GYPSUM DRY WALL GALLONS PER MINUTE GATE VALVE HARDENER HOSE BIB HUB DRAIN HOLLOW METAL HORIZONTAL	OPG OPH OPP P P PAR PFN	OPENING OPPOSITE HAND OPPOSITE PLATE PLUMBING PUMP PARALLEL PREFINISHED
GL GPDW GPM GV H HB HD HM HORIZ HPS	GLASS GYPSUM DRY WALL GALLONS PER MINUTE GATE VALVE HARDENER HOSE BIB HUB DRAIN HOLLOW METAL HORIZONTAL HIGH PRESSURE STEAM	OPG OPH OPP P P PAR	OPENING OPPOSITE HAND OPPOSITE PLATE PLUMBING PUMP PARALLEL
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GL GPDW GPM GV H HB HD HM HORIZ HPS HT HTG HTW HVAC HW HYD ID INS INT INV IPS JC JT K KIT	GLASS GYPSUM DRY WALL GALLONS PER MINUTE GATE VALVE HARDENER HOSE BIB HUB DRAIN HOLLOW METAL HORIZONTAL HIGH PRESSURE STEAM HEIGHT HEATING HOT TEMPERATURE WATER HEATING - VENTILATING - AIR CONDITIONING HOT WATER HYDRANT INSIDE DIAMETER INSULATE (D) (ION) INTERIOR INVERT IRON PIPE SIZE JANITOR'S CLOSET JOINT KIPS KITCHEN	OPG OPH OPP P P PAR PFN PL PLAM PNL PNT PP PSF PSF PSI PT PTN PVC PWD PWG QT R R RA RAD RAD	OPENING OPPOSITE HAND OPPOSITE PLATE PLUMBING PUMP PARALLEL PREFINISHED PROPERTY LINE PLASTIC LAMINATE PANEL PAINT (ED) POINT TO POINT POUNDS PER SQUARE FOOT POUNDS PER SQUARE INCH POINT PARTITION POLYVINYL CHLORIDE PLYWOOD POLISHED WIRE GLASS QUARRY TILE RISER RETURN AIR RADIATION RADIUS
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GL GPDW GPM GV H HB HD HM HORIZ HPS HT HTG HTW HVAC HW HYD ID INS INT INV IPS JC JT K KIT KSI	GLASS GYPSUM DRY WALL GALLONS PER MINUTE GATE VALVE HARDENER HOSE BIB HUB DRAIN HOLLOW METAL HORIZONTAL HIGH PRESSURE STEAM HEIGHT HEATING HOT TEMPERATURE WATER HEATING - VENTILATING - AIR CONDITIONING HOT WATER HYDRANT INSIDE DIAMETER INSULATE (D) (ION) INTERIOR INVERT IRON PIPE SIZE JANITOR'S CLOSET JOINT KIPS KITCHEN KIPS PER SQUARE INCH	OPG OPH OPP P P PAR PFN PL PLAM PNL PNT PP PSF PSF PSI PT PTN PVC PWD PWG QT R R RA RAD RAD	OPENING OPPOSITE HAND OPPOSITE PLATE PLUMBING PUMP PARALLEL PREFINISHED PROPERTY LINE PLASTIC LAMINATE PANEL PAINT (ED) POINT TO POINT POUNDS PER SQUARE FOOT POUNDS PER SQUARE INCH POINT PARTITION POLYVINYL CHLORIDE PLYWOOD POLISHED WIRE GLASS QUARRY TILE RISER RETURN AIR RADIATION RADIUS
GL GPDW GPM GV H HB HD HM HORIZ HPS HT HTG HTW HVAC HW HYD ID INS INT INV IPS JC JT K KIT	GLASS GYPSUM DRY WALL GALLONS PER MINUTE GATE VALVE HARDENER HOSE BIB HUB DRAIN HOLLOW METAL HORIZONTAL HIGH PRESSURE STEAM HEIGHT HEATING HOT TEMPERATURE WATER HEATING - VENTILATING - AIR CONDITIONING HOT WATER HYDRANT INSIDE DIAMETER INSULATE (D) (ION) INTERIOR INVERT IRON PIPE SIZE JANITOR'S CLOSET JOINT KIPS KITCHEN	OPG OPH OPP P P PAR PFN PL PLAM PNL PNT PSF PSF PSF PSF PSF PSF PSF PSF PSF PSF	OPENING OPPOSITE HAND OPPOSITE PLATE PLUMBING PUMP PARALLEL PREFINISHED PROPERTY LINE PLASTIC LAMINATE PANEL PAINT (ED) POINT TO POINT POUNDS PER SQUARE FOOT POUNDS PER SQUARE INCH POINT PARTITION POLYVINYL CHLORIDE PLYWOOD POLISHED WIRE GLASS QUARRY TILE RISER RETURN AIR RADIATION RADIUS RUBBER BASE
GL GPDW GPM GV H HB HD HM HORIZ HPS HT HTG HTW HVAC HW HYD ID INS INT INV IPS JC JT K KIT KSI	GLASS GYPSUM DRY WALL GALLONS PER MINUTE GATE VALVE HARDENER HOSE BIB HUB DRAIN HOLLOW METAL HORIZONTAL HIGH PRESSURE STEAM HEIGHT HEATING HOT TEMPERATURE WATER HEATING - VENTILATING - AIR CONDITIONING HOT WATER HYDRANT INSIDE DIAMETER INSULATE (D) (ION) INTERIOR INVERT IRON PIPE SIZE JANITOR'S CLOSET JOINT KIPS KITCHEN KIPS PER SQUARE INCH	OPG OPH OPP P P PAR PFN PL PLAM PNL PNT PVC PVD PVSF PSF PSF RT PTN PVC PWD PWG RT RA RAD RAD RAD RAD RAD RAD	OPENING OPPOSITE HAND OPPOSITE PLATE PLUMBING PUMP PARALLEL PREFINISHED PROPERTY LINE PLASTIC LAMINATE PANEL PAINT (ED) POINT TO POINT POUNDS PER SQUARE FOOT POUNDS PER SQUARE INCH POINT PARTITION POLYVINYL CHLORIDE PLYWOOD POLISHED WIRE GLASS QUARRY TILE RISER RETURN AIR RADIATION RADIUS RUBBER BASE ROOF DRAIN
GL GPDW GPM GV H HB HD HM HORIZ HPS HT HTG HTW HVAC HW HYD ID INS INT INV IPS JC JT K KIT KSI LAB LAM	GLASS GYPSUM DRY WALL GALLONS PER MINUTE GATE VALVE HARDENER HOSE BIB HUB DRAIN HOLLOW METAL HORIZONTAL HIGH PRESSURE STEAM HEIGHT HEATING HOT TEMPERATURE WATER HEATING - VENTILATING - AIR CONDITIONING HOT WATER HYDRANT INSIDE DIAMETER INSULATE (D) (ION) INTERIOR INVERT IRON PIPE SIZE JANITOR'S CLOSET JOINT KIPS KITCHEN KIPS PER SQUARE INCH	OPG OPH OPP P P PAR PFN PL PLAM PNL PNT PSF PSF PSF PSF PSF PSF PSF PSF PSF PSF	OPENING OPPOSITE HAND OPPOSITE PLATE PLUMBING PUMP PARALLEL PREFINISHED PROPERTY LINE PLASTIC LAMINATE PANEL PAINT (ED) POINT TO POINT POUNDS PER SQUARE FOOT POUNDS PER SQUARE INCH POINT PARTITION POLYVINYL CHLORIDE PLYWOOD POLISHED WIRE GLASS QUARRY TILE RISER RETURN AIR RADIATION RADIUS RUBBER BASE ROOF DRAIN REFERENCE REFRIGERATOR
GL GPDW GPM GV H HB HD HM HORIZ HPS HT HTG HTW HVAC HW HYD ID INS INT INV IPS JC JT K KIT KSI LAB	GLASS GYPSUM DRY WALL GALLONS PER MINUTE GATE VALVE HARDENER HOSE BIB HUB DRAIN HOLLOW METAL HORIZONTAL HIGH PRESSURE STEAM HEIGHT HEATING HOT TEMPERATURE WATER HEATING - VENTILATING - AIR CONDITIONING HOT WATER HYDRANT INSIDE DIAMETER INSULATE (D) (ION) INTERIOR INVERT IRON PIPE SIZE JANITOR'S CLOSET JOINT KIPS KITCHEN KIPS PER SQUARE INCH	OPG OPH OPP P P PAR PFN PL PAR PFN PL PAR PFN PL PAR PFN PL PAR PT PL PNT PNT PNT PNT PNT PVC PWD PWG QT R RA RAD RAD RAD RB RD REF	OPENING OPPOSITE HAND OPPOSITE PLATE PLUMBING PUMP PARALLEL PREFINISHED PROPERTY LINE PLASTIC LAMINATE PANEL PAINT (ED) POINT TO POINT POUNDS PER SQUARE FOOT POUNDS PER SQUARE INCH POINT PARTITION POLYVINYL CHLORIDE PLYWOOD POLISHED WIRE GLASS QUARRY TILE RISER RETURN AIR RADIATION RADIUS RUBBER BASE ROOF DRAIN REFERENCE

RL	ROOF LEADER
RM	ROOM
RO	ROUGH OPENING
ROW	RIGHT OF WAY
RR	RETURN REGISTER
S	SANITARY
S	SOIL
S	SOUTH
SA	STEAM
SD	SUPPLY AIR
SD	SMOKE DAMPER
SDMH	SMOKE DAMPER
SEC	STORM DRAIN
SF	STORM DRAIN MANHOLE
SG	SECTION
SHT	SUPPLY FAN
SIM	SUPPLY GRILLE
SK	SHEET
SMU	SIMILAR
SPEC	SINK
SPF	SOLID MASONRY UNIT
SQ	SPECIFICATION (S)
SR	SPRUCE PINE FIR
SSF	SQUARE
SQ	SUPPLY REGISTER
SR	STAINLESS STEEL
SSK	SERVICE SINK
STD	STANDARD
STL	STEEL
STOR	STORAGE
SYM	SYMMETRY (ICAL)
SYS	SYSTEM
T T&G T'STAT TB TD TD TD TEL TG THK TKBD TL TOC TOF TOF TOS TP TPTN TV TYP	TREAD TONGUE & GROOVE THERMOSTAT TEST BORING TRANSFER DUCT TRENCH DRAIN TELEPHONE TRANSFER GRILLE THICK (NESS) TACKBOARD TOTAL LOAD TOP OF CONCRETE TOP OF FOOTING TOP OF STEEL TEST PIT TOILET PARTITION TELEVISION TYPICAL
UD UGD UH UNO UR UV	UNDERDRAIN UNDERGROUND DUCTWORK UNIT HEATER UNLESS NOTED OTHERWISE URINAL UNIT VENTILATOR
V	VENT
VAV	VARIABLE AIR VOLUME
VB	VINYL BASE
VCT	VINYL COMPOSITION TILE
VD	VOLUME DAMPER
VERT	VERTICAL
VF	VINYL FABRIC
VF	VENT THRU ROOF
W W/ W/O WC WCH WCO WD WG WH WG WH WIN WP WR WR	WEST, WIDTH, WIDE WITH WITHOUT WATER CLOSET WATER CLOSET HANDICAP WALL CLEANOUT WOOD WALL GRILLE WALL GRILLE WALL HUNG WINDOW WORKING POINT WALL REGISTER WELDED WIRE FABRIC

### SYMBOLS USED AS ABBREVIATIONS

ANGLE
CENTERLINE
CHANNEL
DIAMETER
PLATE
SQUARE

### PLAN - SECTION

	VIEW TITLE
	E
	LE BLOCK FOR GRAPHIC SCALE
	ES ELEVATION, SECTION AIL NUMBER
A1 A1 A25.1 A25.1	BUILDING SECTION
A1 A30.1	WALL SECTION
A1 A20.1 A2	EXTERIOR ELEVATION
A1 A81.1 A3 A4	INTERIOR ELEVATION
A1 (A50.1)	DETAIL
	THE FOLLOWING APPLIES TO THE MARKERS ABOVE:
	<ul> <li>INDICATES ELEVATION, SECTION</li> <li>OR DETAIL NUMBER</li> </ul>
A50.1	- INDICATES DRAWING SHEET ON WHICH ELEVATION, SECTION OR DETAIL IS SHOWN
(A)— — —	COLUMN REFERENCE GRID
· •	LEVEL LINE
216	WALL OR PARTITION TYPE
<b>ROOM NAME</b>	ROOM NAME AND NUMBER
72	EQUIPMENT OR FURNITURE NUMBER
(201)	DOOR OR BORROW LIGHT NUMBER
<b>(#)</b>	WINDOW TYPE
ACT1 10'-0"	CEILING TYPE AND HEIGHT AFF
VCT3	FLOOR FINISH
#	KEYNOTE OR MATERIAL TAG
	REVISION
$\bigoplus$	PROJECT NORTH

ta k k zvoza di ta va zakila. Azek ku Azek ta va ka Azek Akka K i za izek za va ka La Azek Zek \_\_\_\_\_ 

EARTH
POROUS FILL (STONE OR GRAVEL, ETC)
ROCK
LIGHTWEIGHT CONCRETE (OR CONCRETE FILL)
STRUCTURAL CONCRETE (CAST-IN-PLACE, PRECAST, ETC)
BRICK (COMMON OR FACE)
CONCRETE MASONRY UNITS
METAL (LARGE SCALE)
PLYWOOD (LARGE SCALE)
WOOD, FINISHED
WOOD, ROUGH
INSULATION (LOOSE OR BATT)
INSULATION (RIGID)
GLASS (LARGE SCALE)
CERAMIC TILE
GYPSUM WALL BOARD (FIBERBOARD, ETC)
PLASTER, SAND, CEMENT, GROUT
ACOUSTICAL TILE
RESILIENT FLOORING
METAL (SMALL SCALE)

PLAN - SECTION

### ELEVATIONS

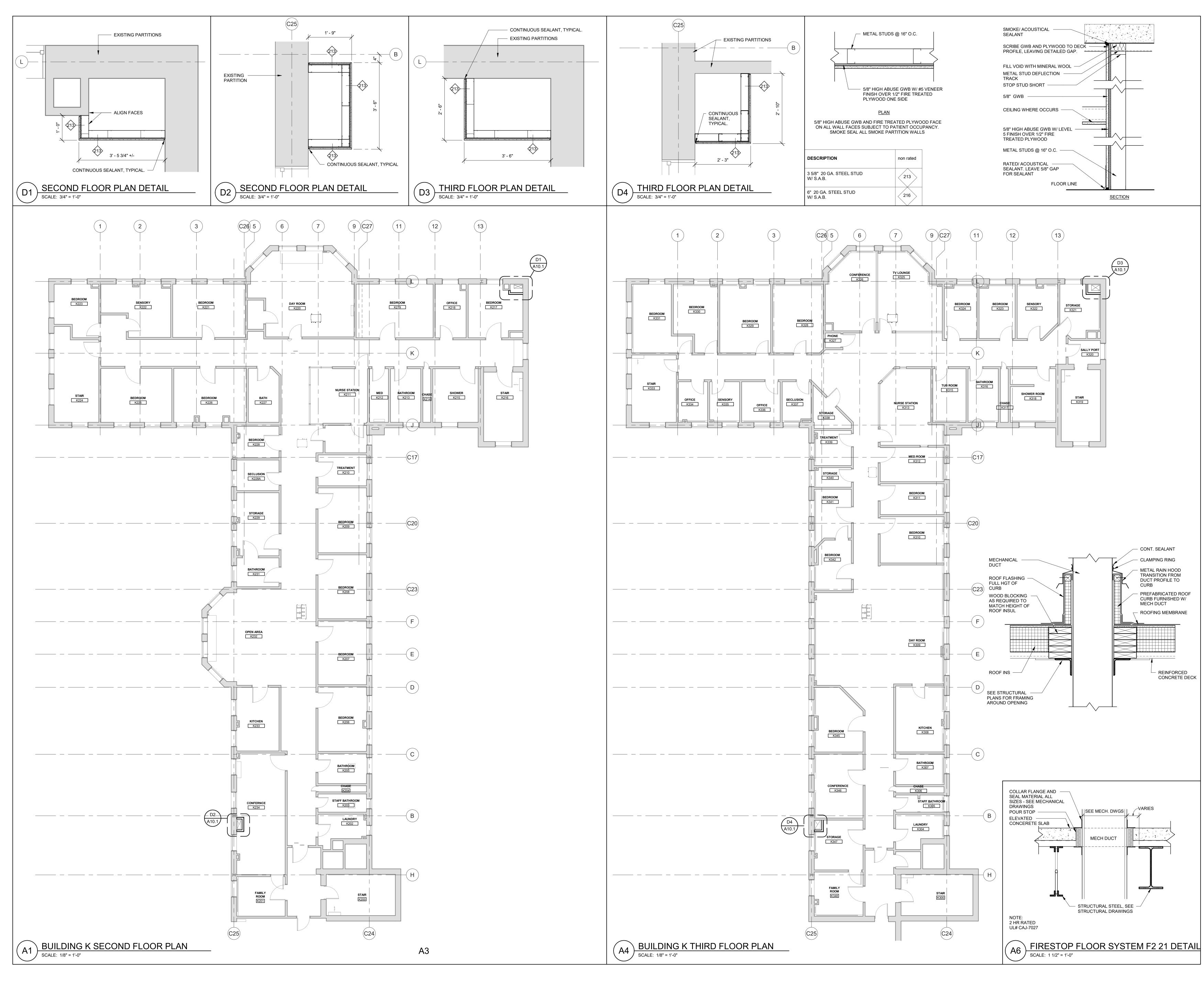
	CONCRETE, PLASTER
	SHEET METAL
///	GLAZING
	BRICK

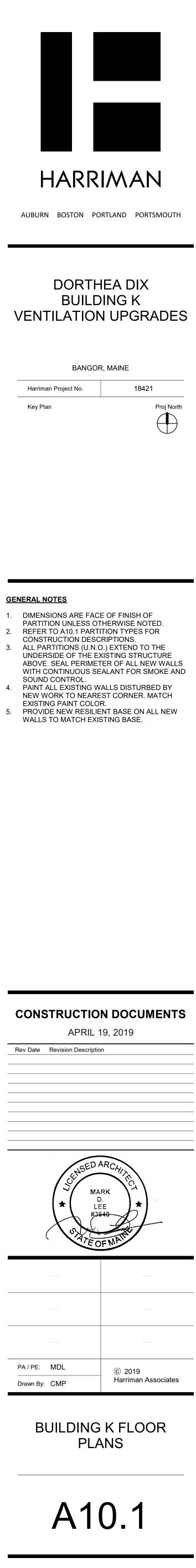
### SPECIAL INDICATIONS PARTITION CONSTRUCTION - PLAN

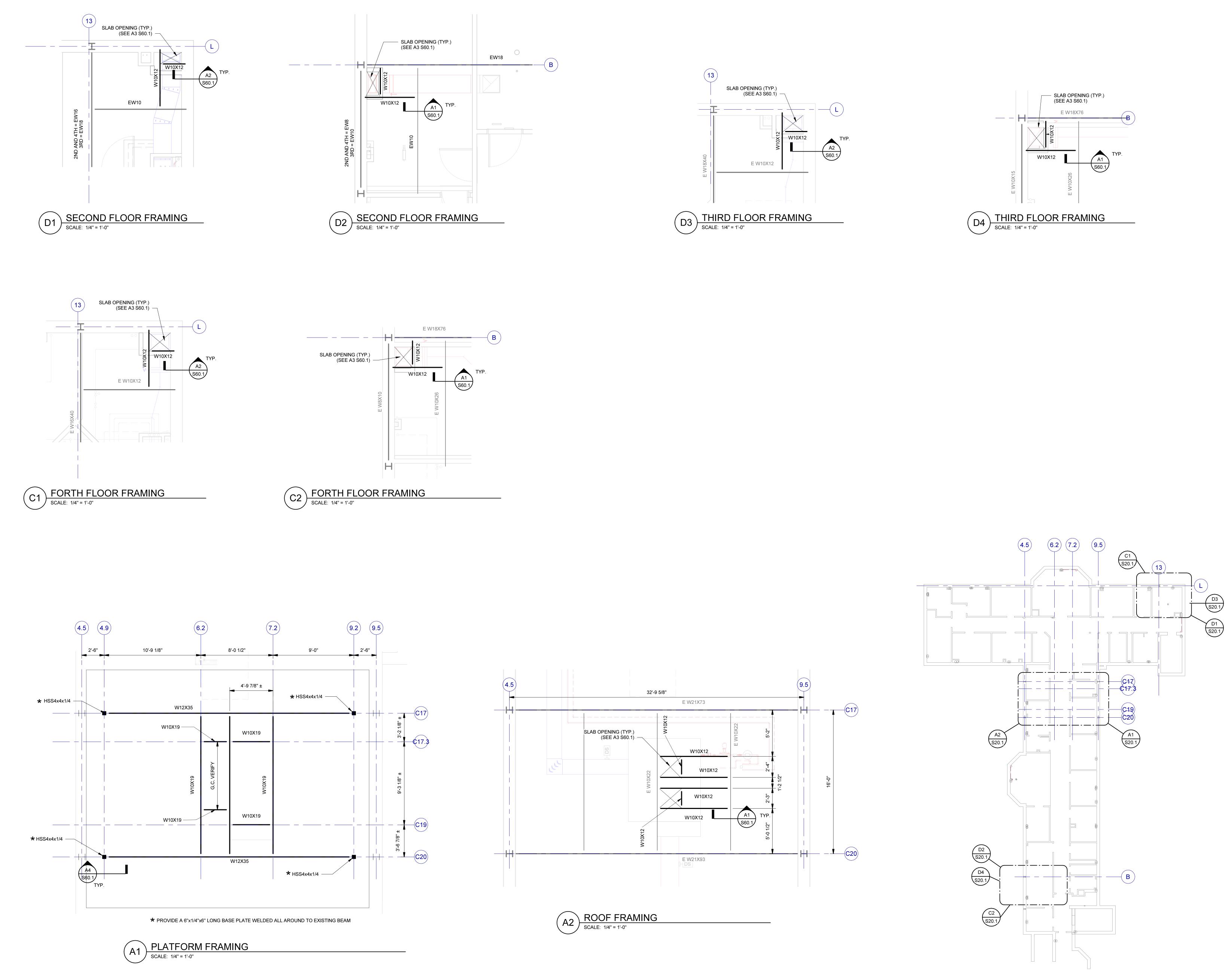
STEEL STUD
EXISTING TO REMAIN
WOOD STUD
EXISTING TO BE REMOVED

A5 GRAPHIC SYMBOLS LEGEND

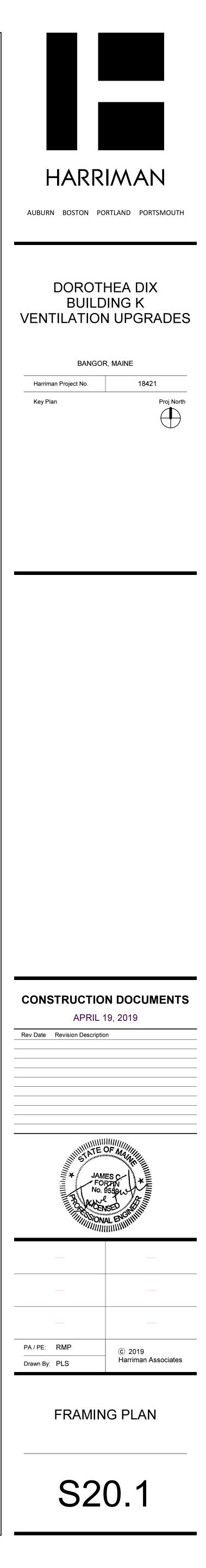






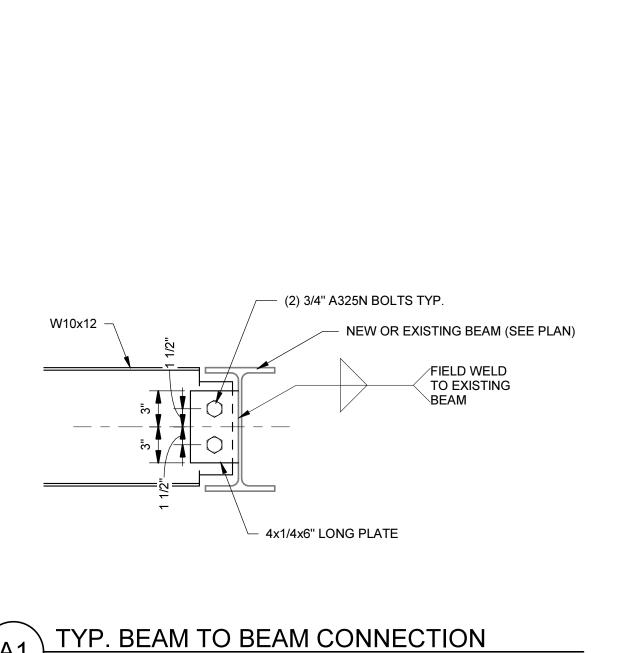


(A4) KEY PLAN NO SCALE

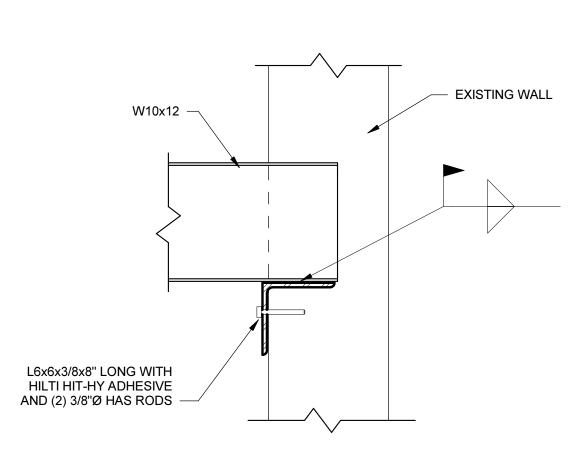


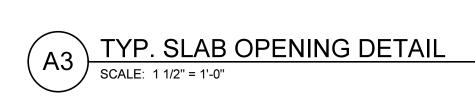


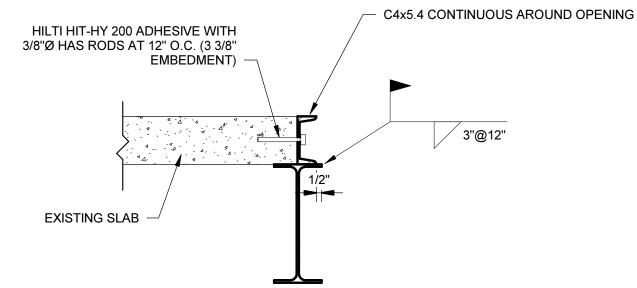




TYP. BEAM TO WALL CONNECTION SCALE: 1 1/2" = 1'-0"



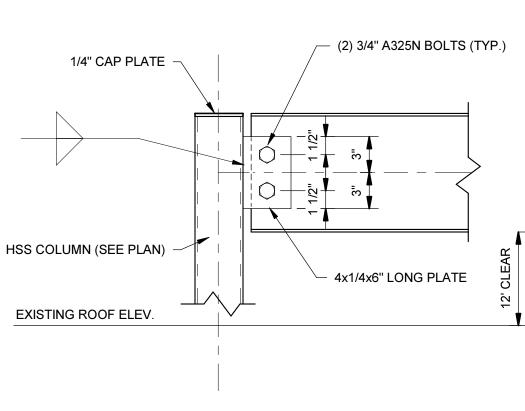






### (A4) BEAM TO COLUMN CONNECTION SCALE: 1 1/2" = 1'-0"

3"@12"





DESIGN CODE = 2015 IBC AND ASCE 7-10

DESIGN INFORMATION

STRUCTURAL STEEL

- MISCELLANEOUS

- CONTRACTOR SHALL REPORT ANY VARIATIONS FOUND AT THE SITE BEFORE PROCEEDING WITH THAT PART OF THE WORK.

- 1. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS BEFORE PROCEEDING WITH THE WORK.

- STRUCTORAL TOBING TO BE ASTM B300, GR40 (FY=40 R31).
   MISC. STEEL PLATES AND ANGLES SHALL BE ASTM A36 (Fy=36KSI).
   ALL EXTERIOR STEEL INCLUDING CONNECTION PLATES AND BOLTS SHALL BE HOT DIPPED GALVANIZED.
   VERIFY WITH MECHANICAL DRAWINGS FOR LOCATION OF DUCTS, PIPING, ETC. THROUGH FLOOR AND ROOF CONSTRUCTION.

STRUCTURAL STEEL SHALL BE ASTM A992, GR. 50 (Fy=50 KSI).
 STRUCTURAL TUBING TO BE ASTM B500, GR46 (Fy=46 KSI).



<u>ABBREV</u>	<b>DESCRIPTION</b>
ACV AFF AFG ALD AMS APD ATC	AUTOMATIC CONTROL VALVE ABOVE FINISHED FLOOR ABOVE FINISHED GRADE ACOUSTICAL LINED DUCT AIRFLOW MEASURING STATION AIR PRESSURE DROP AUTOMATIC TEMPERATURE
B BD BHP BPD BTU	CONTROL BAROMETRIC DAMPER BACKDRAFT DAMPER BRAKE HORSEPOWER BYPASS DAMPER BRITISH THERMAL UNITS
CBD CFM CHWR CHWS CO CTE CWR CWS	COUNTERBALANCED BACKDRAFT DAMPER CUBIC FEET PER MINUTE CHILLED WATER RETURN CHILLED WATER SUPPLY CLEANOUT CONNECT TO EXISTING CONDENSER WATER RETURN CONDENSER WATER SUPPLY
DCW DEG.F DHW DIA DN	DOMESTIC COLD WATER DEGREES FAHRENHEIT DOMESTIC HOT WATER DIAMETER DOWN
EAT ESP EWT EXG EXH	ENTERING AIR TEMPERATURE EXTERNAL STATIC PRESSURE ENTERING WATER TEMPERATURE EXISTING EXHAUST
F&T F/S FC FD FD FL FM FOR FOR FOS FPF FPI FPM FT FT-HD FT-HD FT-WG FTR	FLOAT & THERMOSTATIC TRAP FIRE AND SMOKE COMBINATION DAMPER FLEXIBLE CONNECTION FIRE DAMPER FINNED LENGTH OF RADIATION FLOW METER FUEL OIL RETURN FUEL OIL RETURN FUEL OIL SUPPLY FINS PER FOOT FINS PER/INCH FEET PER MINUTE FEET FEET OF HEAD FEET WATER GAUGE FIN TUBE RADIATOR
GAL GPM	GALLONS GALLONS PER MINUTE
HP HPCR HPS HRR HRS HWR HWR HWS	HORSEPOWER HIGH PRESSURE CONDENSATE RETURN (OVER 30 PSIG) HIGH PRESSURE STEAM (OVER 30PSIG) HEAT RECOVERY RETURN HEAT RECOVERY SUPPLY HOT WATER RETURN HOT WATER SUPPLY
IN	INCHES

LPS LRA LSGV LWT	LOW PRESSURE STEAM(LESS THAN 15 PSI) LOCKED ROTOR AMPS LOCK & SHIELD GATE VALVE LEAVING WATER TEMPERATURE
M MAX MBH MCA MIN MOPD MPCR MPS	MOTORIZED DAMPER MAXIMUM 1000 BRITISH THERMAL UNITS MINIMUM CIRCUIT AMPS MINIMUM MAXIMUM OVERCURRENT PROTECTIVE DEVICE MEDIUM PRESSURE CONDENSATE RETURN(16-30 PSIG) MEDIUM PRESSURE STEAM (16-30 PSIG)
NA	NOT APPLICABLE
NC	NOISE CRITERIA
NIC	NOT IN CONTRACT
NO	NORMALLY OPEN
NTS	NOT TO SCALE
OA OC OED OS&Y	OUTSIDE AIR ON CENTER OPEN END DUCT 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

**ABBREV** 

LAT

LPCR

PREFIX OF X

EXISTING

### 

# LOW PRESSURE STEAM(LESS THAN SATE

DESCRIPTION

LEAVING AIR TEMPERATURE

RETURN (LESS THAN 15 PSI)

LOW PRESSURE CONDENSATE

GAUGE

	<u>G LEGEND</u>	
SYMBOL	DESCRIPTION	<u>S\</u>
	EXISTING SUPPLY PIPING TO REMAIN	
	EXISTING RETURN PIPING TO REMAIN	
	NEW SUPPLY PIPING	-
	NEW RETURN PIPING	(A
	ACV 2 - WAY	B
	ACV 3 - WAY	C
[	CAP - PIPE	
	CHECK VALVE	
-8-	COMBINATION BALANCING, FLOW MEASURING & TIGHT SHUT-OFF VALVE	
DPSH	DIFFERENTIAL PRESSURE SENSOR	[  F
	FLOAT & THERMOSTATIC TRAP	FD (3 H
	ISOLATION VALVE	
— <del>5</del> —	GLOBE VALVE	
-	INVERTED BUCKET TRAP	[
	LOCKSHIELD GATE VALVE	PR
—	MANUAL AIR VENT	
	OS&Y GATE VALVE	
	PETCOCK FOR GAUGE CONNECTION	-
—— <b>×</b> ——	PIPE ANCHOR	
C—	PIPE DOWN	
0—	PIPE UP	
_=_	PIPE GUIDE	
	PLUG VALVE	
P	PRESSURE GAUGE	
	PRESSURE REDUCING VALVE	
${\mathbb A}^{\!$	PRESSURE RELIEF VALVE	
$\neg \supset \neg$	REDUCER - CONCENTRIC	
	REDUCER - ECCENTRIC	
- <del> </del> <b>&gt;</b> <del> </del>	STRAINER	<u>C</u>
<del></del>	TAKE - OFF FROM BOTTOM OF PIPE	<u>S</u>
—ი—	TAKE - OFF FROM TOP OF PIPE	
	THERMOMETER	
Ц Ч	THERMOMETER WELL	
<u> </u>		
—[T]—	THERMOSTATIC TRAP	
	UNION	

A 10'-0" FL 1.2 GPM RADIATION I.D. (TYPE A, 10'-0" FINNED LENGTH, BALANCED TO 1.2 GPM) WITHOUT DAMPER

### **DUCTWORK LEGEND**

MBOL	DESCRIPTION
	EXISTING DUCTWORK TO REMAIN
	NEW DUCTWORK
	ACOUSTICALLY LINED DUCT
AS -	AIRFLOW MEASURING STATION
	BACKDRAFT DAMPER
	COUNTERBALANCED DAMPER
Ø	SPIRAL DUCT DIAMETER
$\boxtimes$	DUCT SECTION - SUPPLY/OUTDOOR AIR
	DUCT SECTION - RETURN AIR
$\bowtie$	DUCT SECTION - EXHAUST AIR
(r,	DUCT TURNING VANES
Ē	FIRE DAMPER (1 1/2 HOUR RATED)
s	FIRE AND SMOKE DAMPER (1 1/2 HOUR RATED)
R) 💳	FIRE DAMPER (3 HOUR RATED)
	FLEXIBLE DUCT
	LOUVER
	MOTORIZED DAMPER
	PRESSURE RELIEF DAMPER
~->	RETURN OR EXHAUST AIR
s <del>e</del>	SMOKE DAMPER
SDH	DUCT MOUNTED SMOKE DETECTOR
+>+	STRAINER
SPSH	STATIC PRESSURE SENSOR
<b>▶</b>	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
<u>ON7</u>	ROLS LEGEND
MBOL	DESCRIPTION
H	HUMIDISTAT
HS	HUMIDITY SENSOR
TS	TEMPERATURE SENSOR
T	THERMOSTAT
Te	THERMOSTAT COOLING

THERMOSTAT COOLING THERMOSTAT HEATING THERMOSTAT - NIGHT (Truc) THERMOSTAT - HEATING/COOLING

### **GENERIC LEGEND**

### SYMBOL DESCRIPTION

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

## CONTRACT DOCUMENTS.

- TRADES.

- REQUIRED.
- TURNING VANES.
- AIRFLOW.

- FRAMING.

- INSULATION MINIMUM.
- SPECIFIED.

### **GENERAL NOTES**

1. 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

2. COORDINATE WORK OF MECHANICAL SUBCONTRACTOR WITH WORK OF OTHER

3. DUCTWORK, PIPING AND EQUIPMENT ARE INDICATED DIAGRAMMATICALLY. FIELD-VERIFY LOCATIONS.

4. 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.

5. 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.

6. VERIFY INSTALLATION OF EXISTING VOLUME DAMPERS AT EACH BRANCH IN EXISTING SUPPLY DUCT. PROVIDE ADDITIONAL VOLUME DAMPERS WHERE

7. 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.

8. 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

9. PROVIDE 16 GAUGE SINGLE-THICKNESS TURNING VANES AT MITERED DUCT ELBOWS. VANE EDGES (LEADING AND TRAILING) SHALL BE TANGENTIAL TO

10. FLEXIBLE DUCT LENGTHS SHALL NOT EXCEED 5'-0"

11. PAINT DUCTWORK VISIBLE THRU CEILING OPENINGS, DUCT OPENINGS, AND REGISTERS, GRILLES, AND DIFFUSERS WITH BLACK PAINT IN ACCORDANCE WITH DIVISION 09 SECTION "PAINTING."

12. MOUNT THERMOSTATS AND TEMPERATURE AND HUMIDITY SENSORS AT 48 INCHES AFF TO TOP OF ITEM. PROVIDE ELECTRICAL WALL BOX ATTACHED TO

13. 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.

14. 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.

15. PIPING SHALL BE CONCEALED EXCEPT IN MECHANICAL ROOMS AND AS INDICATED. WHERE PIPES DROP IN BLOCK WALLS, PROVIDE 1/2" THICK

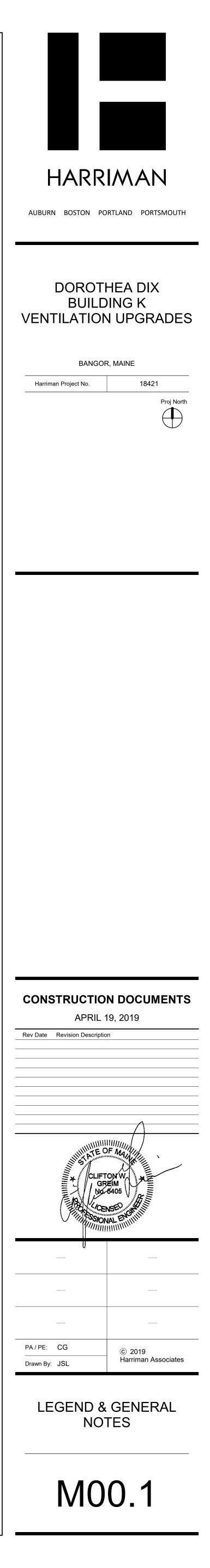
16. SEAL DUCTWORK AND PIPING THRU MECHANICAL ROOM FLOORS AND PARTITIONS, AND THRU FIRE-RATED ASSEMBLIES, WITH FIRESTOP MATERIAL AS

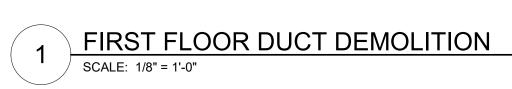
17. A BUILDER'S RISK CERTIFICATE OF INSURANCE WILL BE FURNISHED TO THE CONTRACTOR UPON REQUEST.

18. 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".

19. ALL OF THE VERTICAL AND HORIZONTAL DUCT IS EXPOSED ON THE 4TH FLOOR.

20. THERE IS NO CURRENT WARRANTY ON THE BUILDING K ROOF.

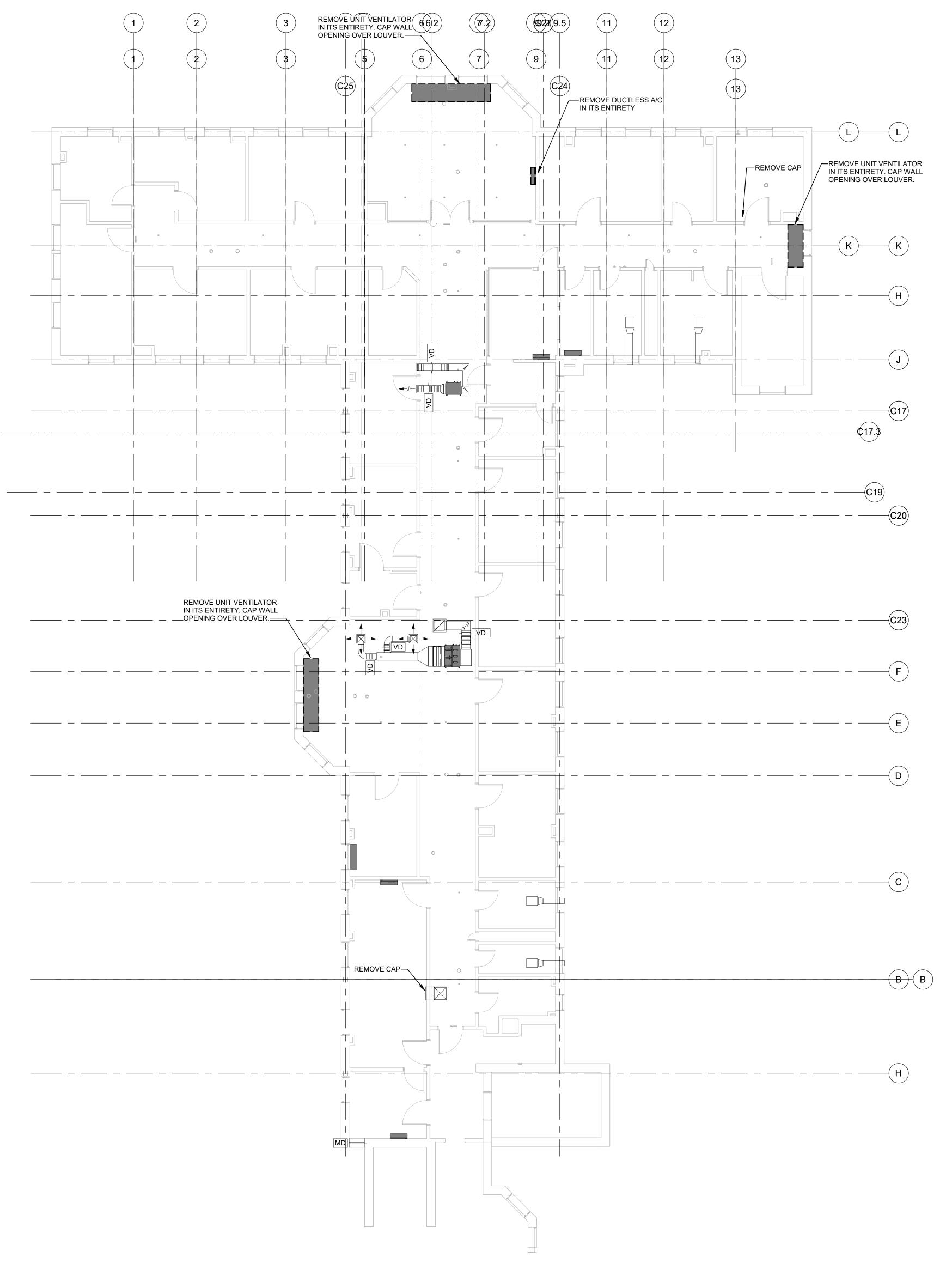


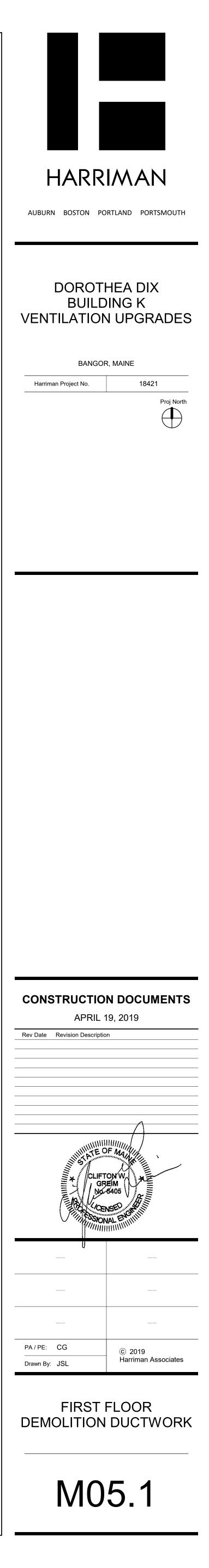


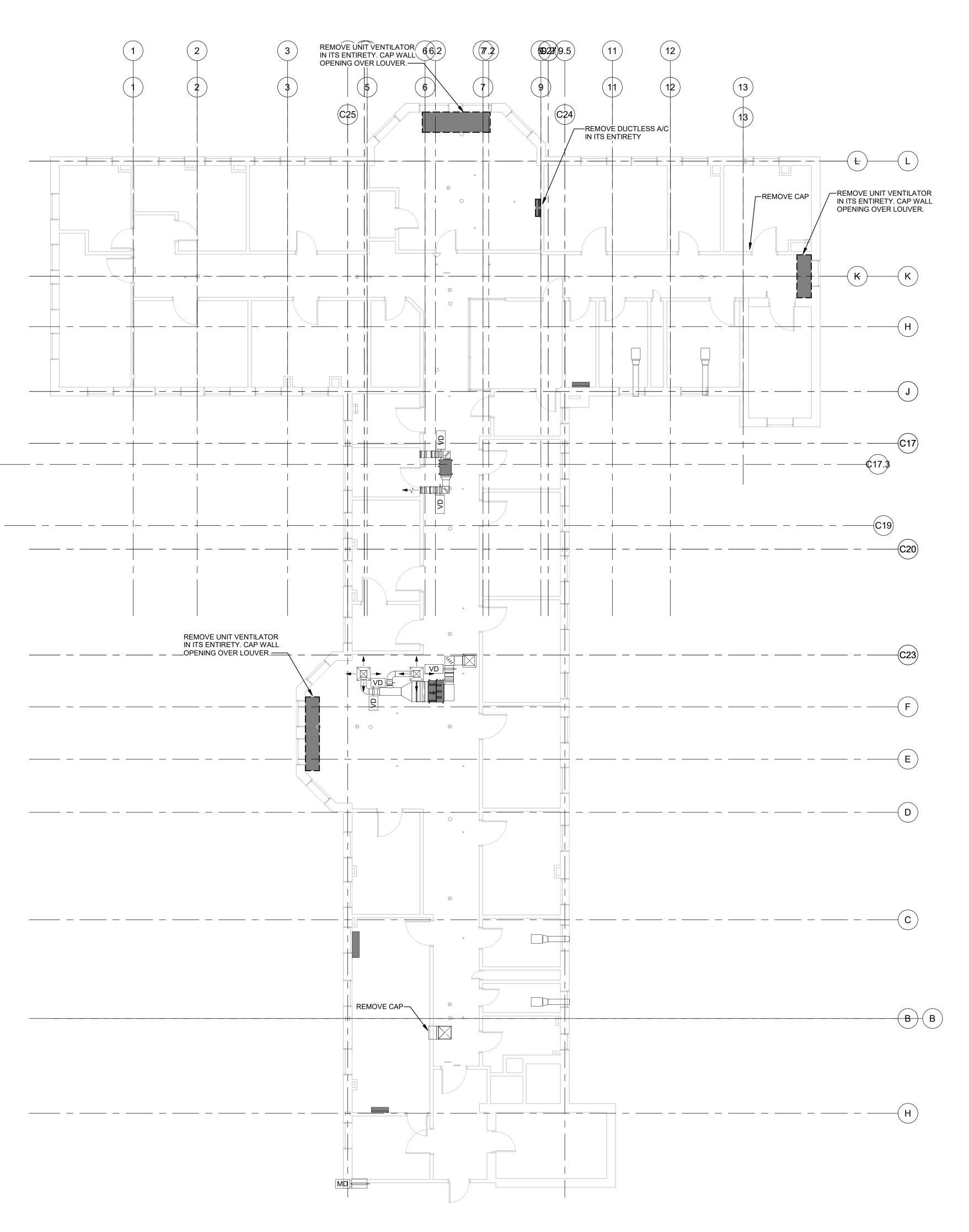
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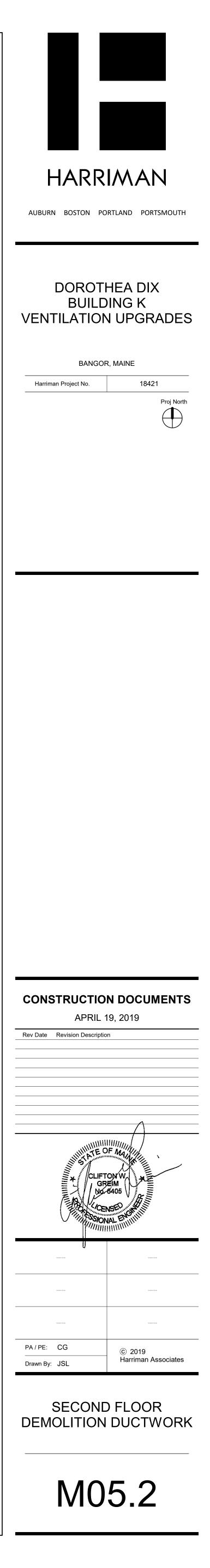
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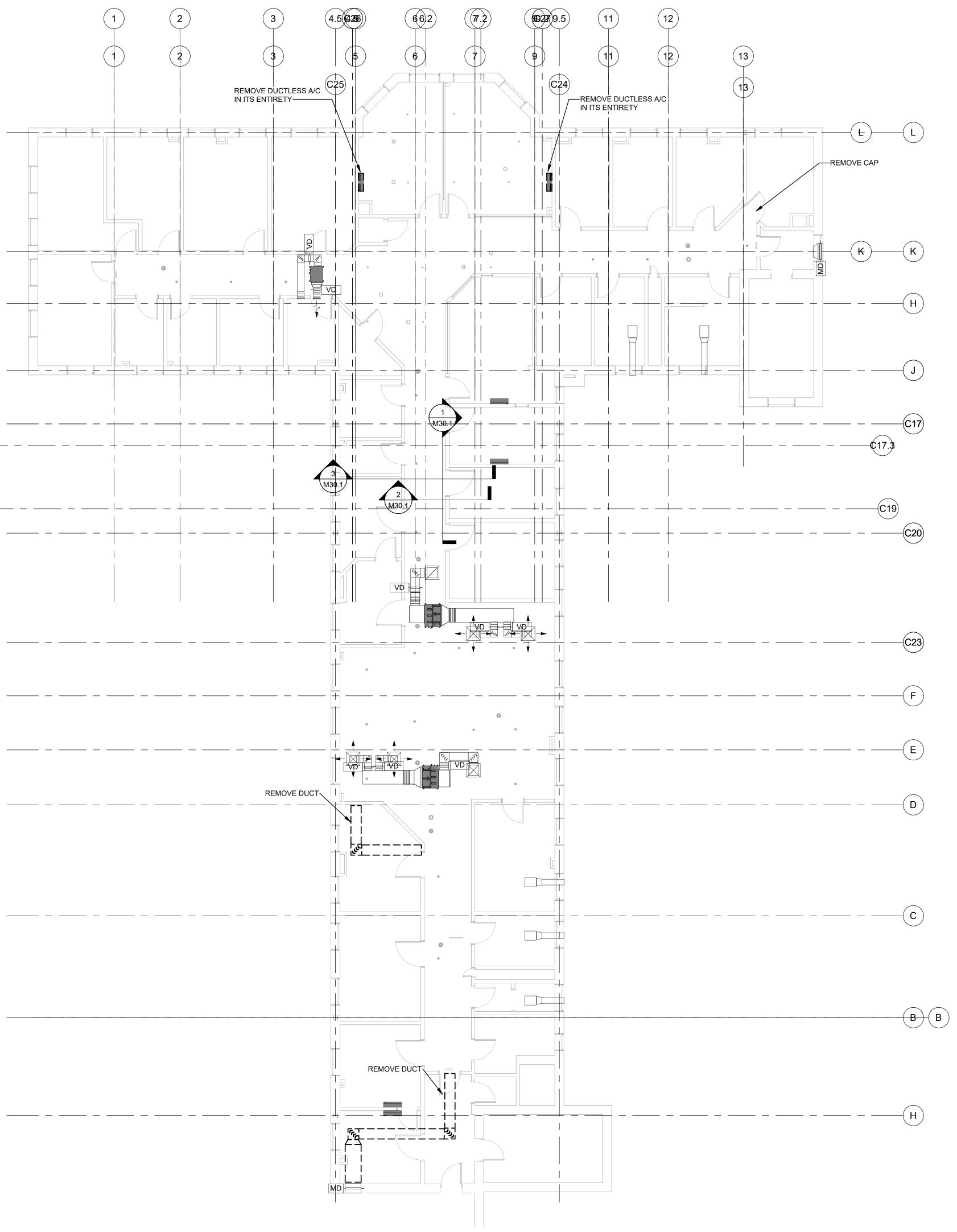


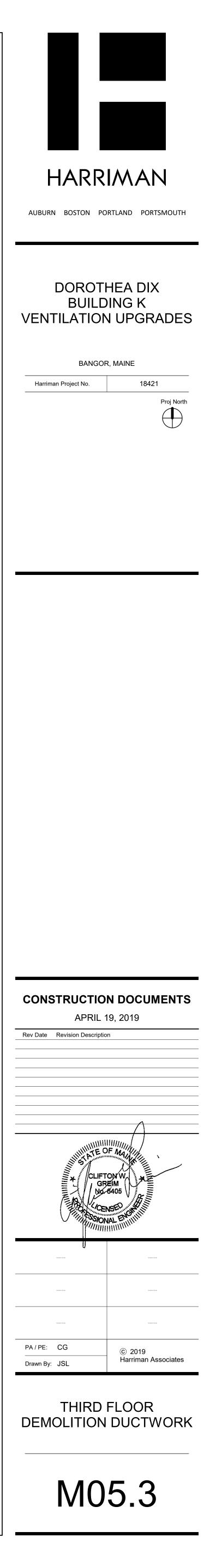


1 THIRD FLOOR DUCT DEMOLITION SCALE: 1/8" = 1'-0"

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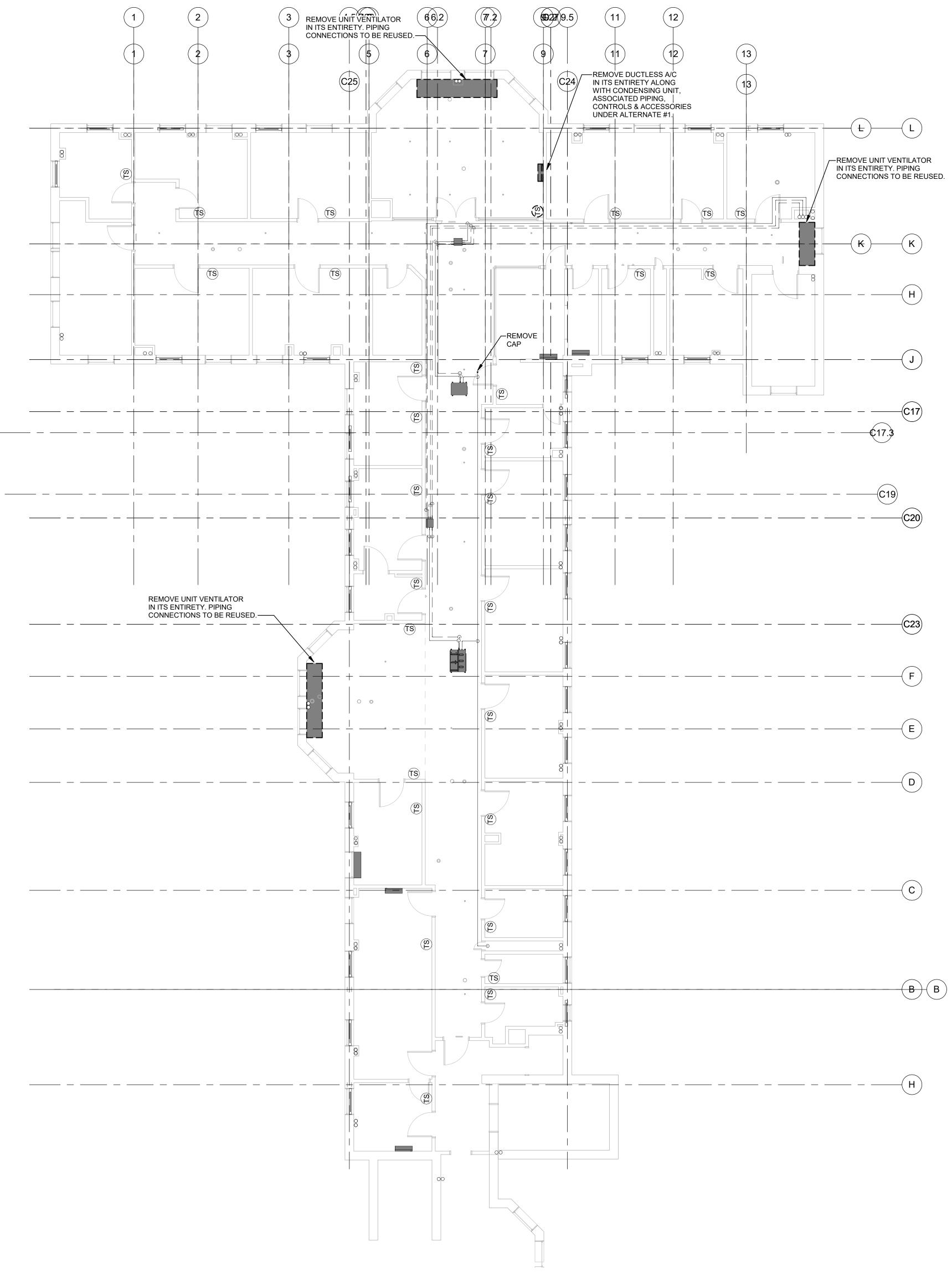
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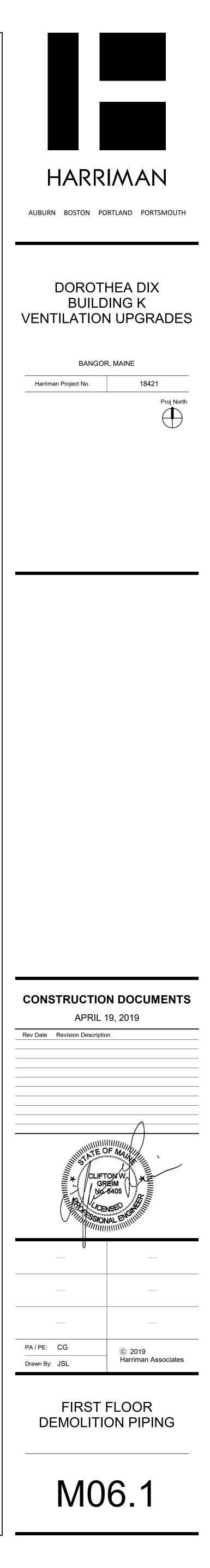




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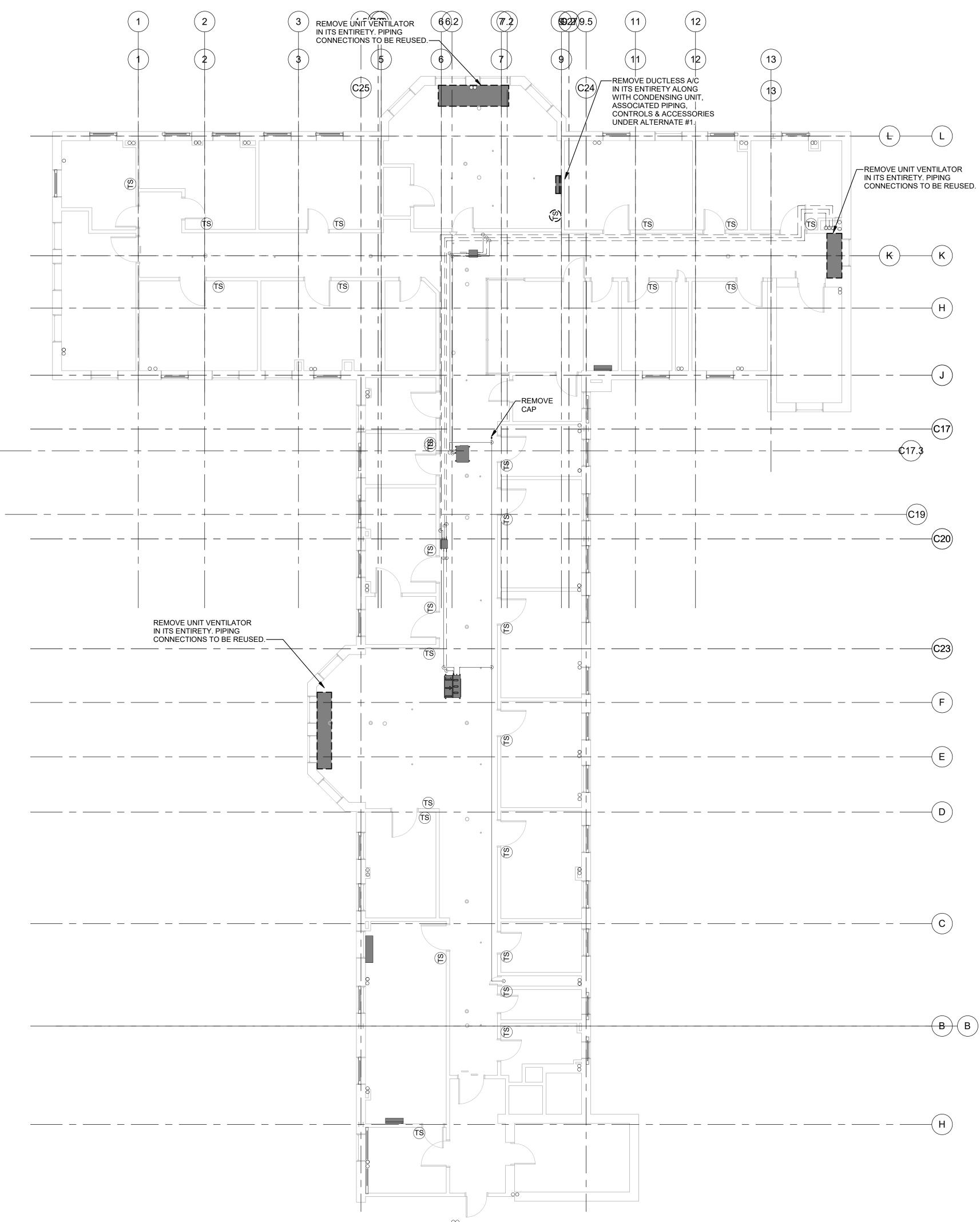
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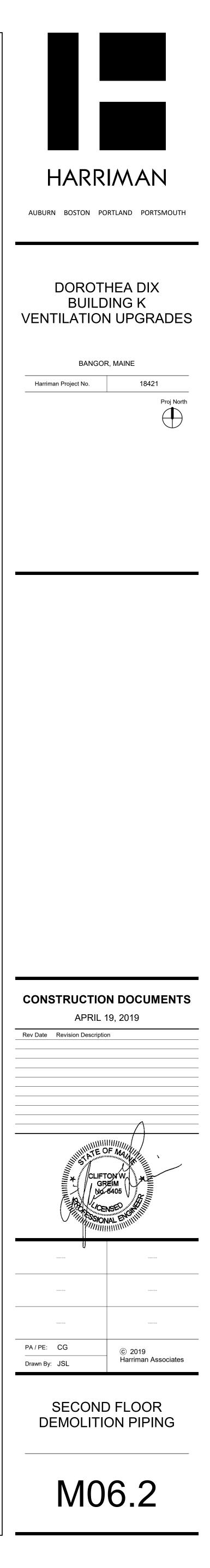
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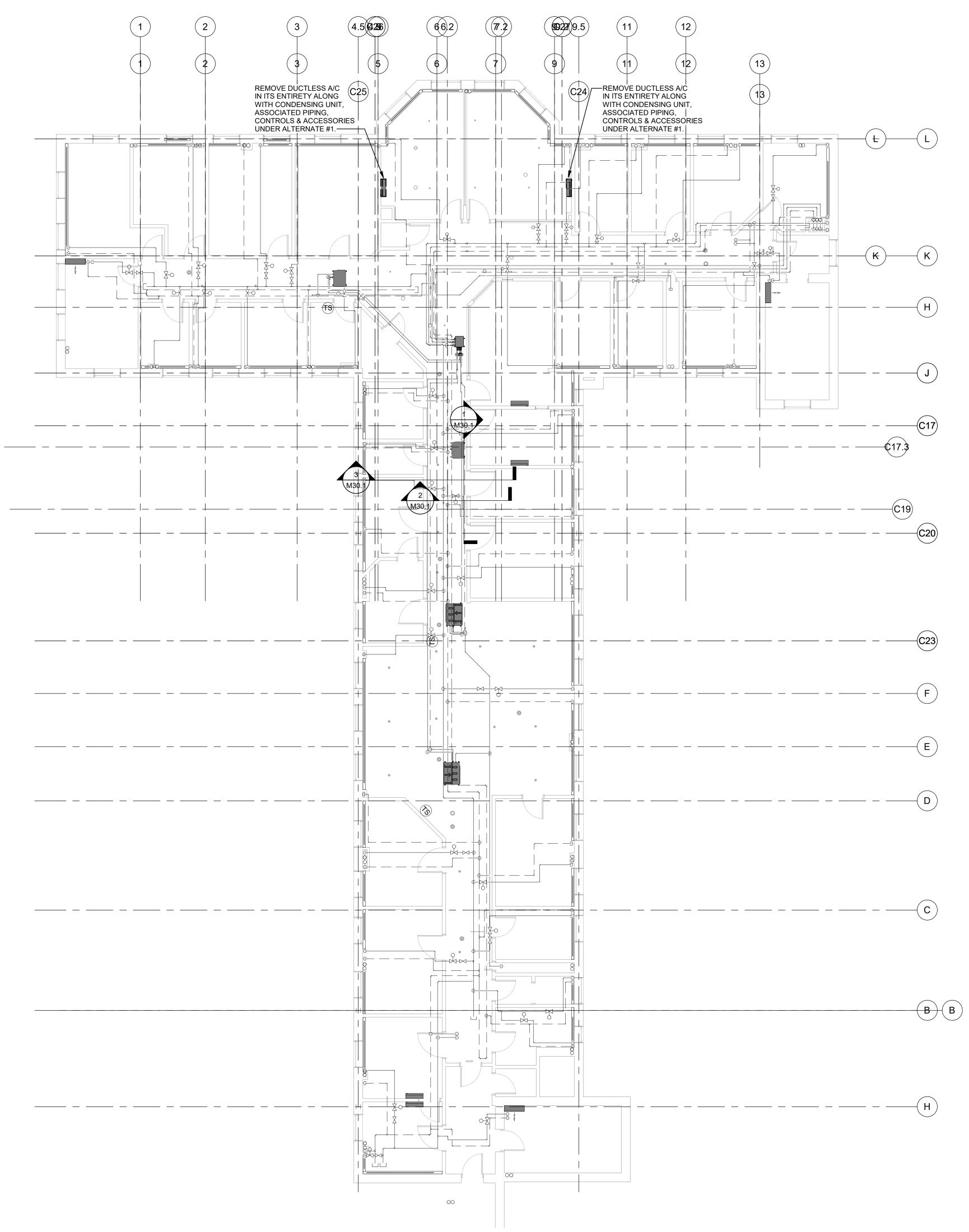




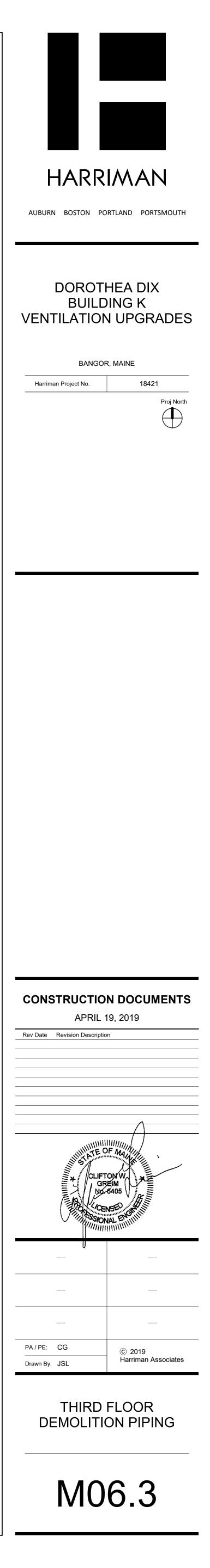
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THIRD FLOOR PIPING DEMOLITION SCALE: 1/8" = 1'-0"





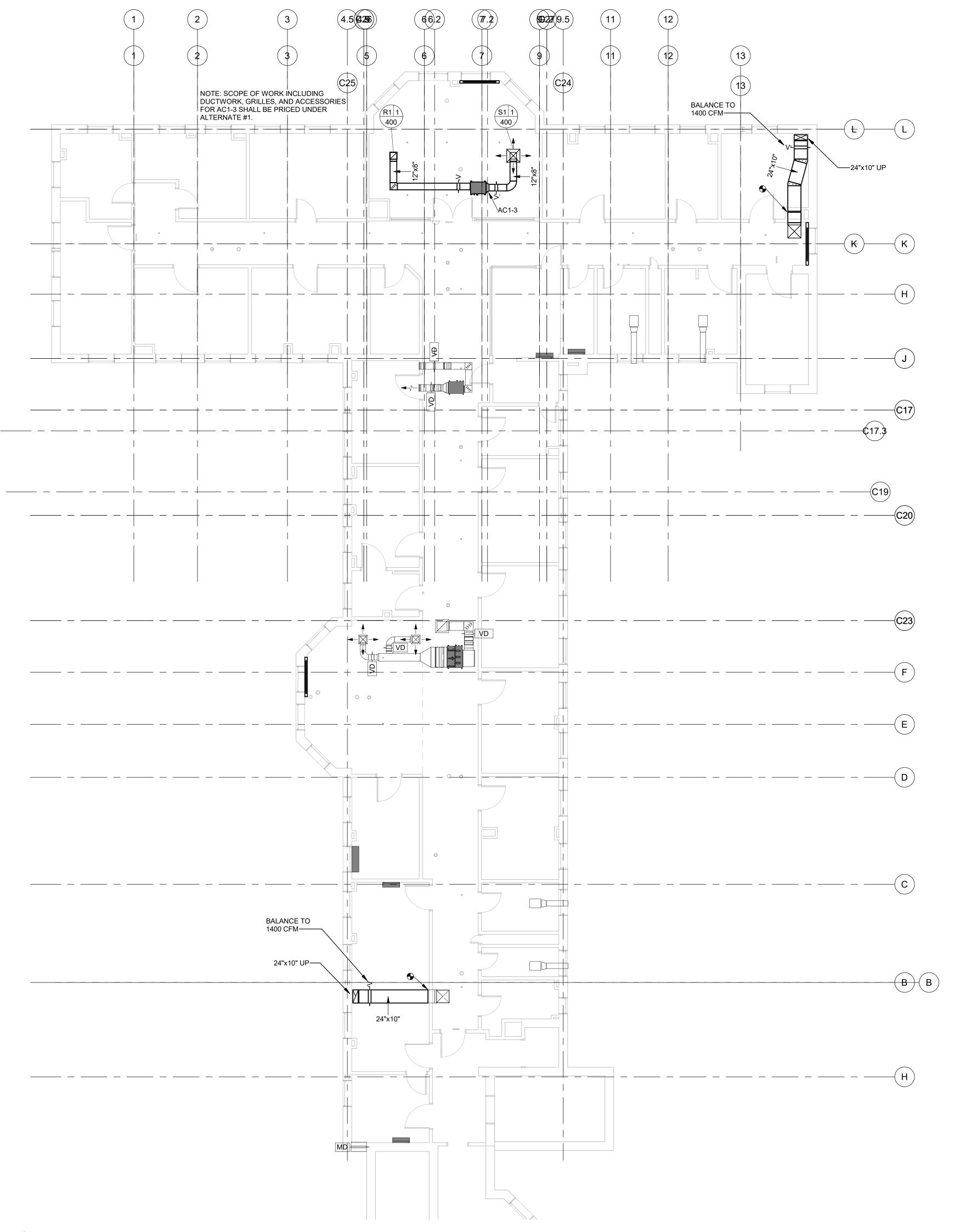
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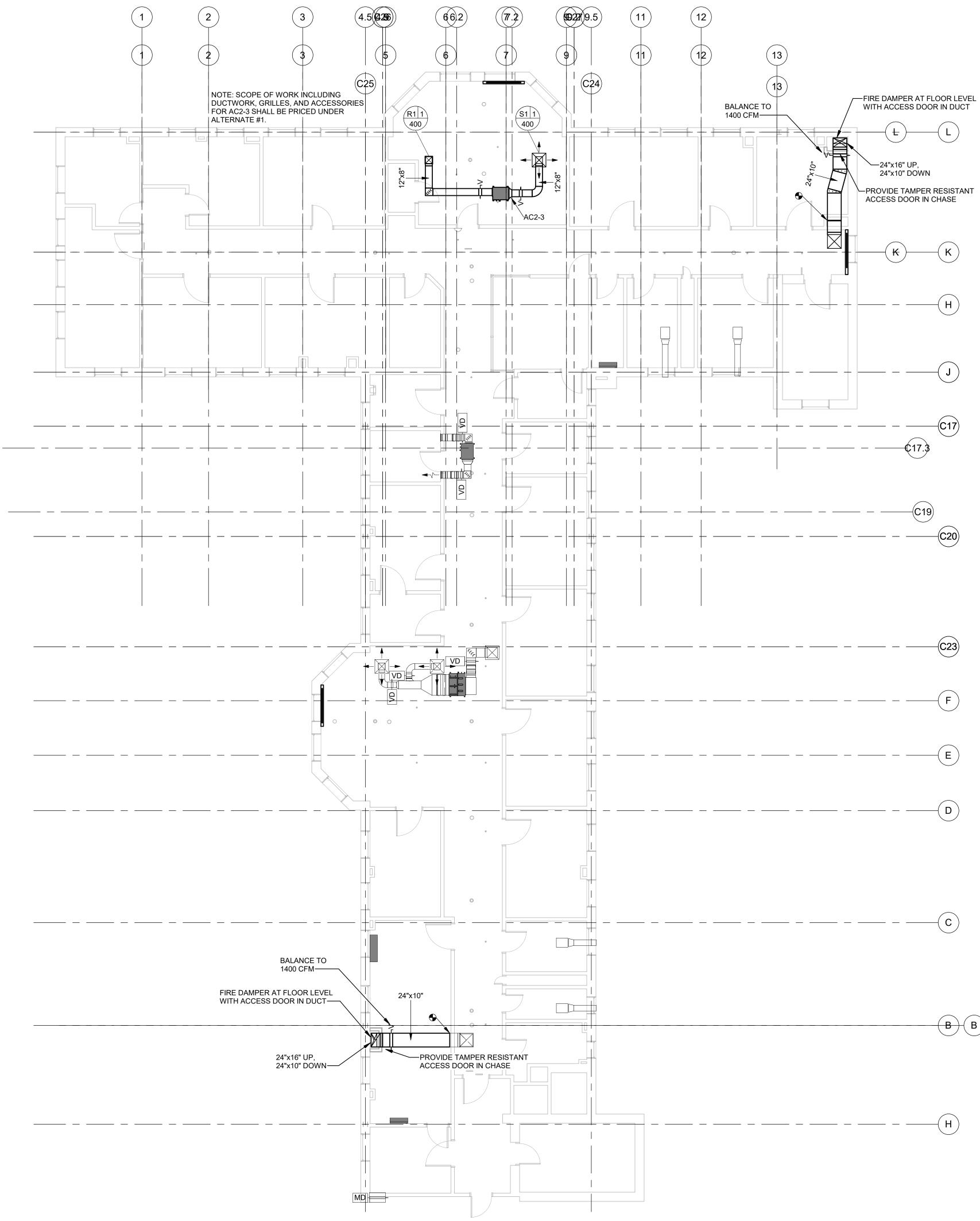
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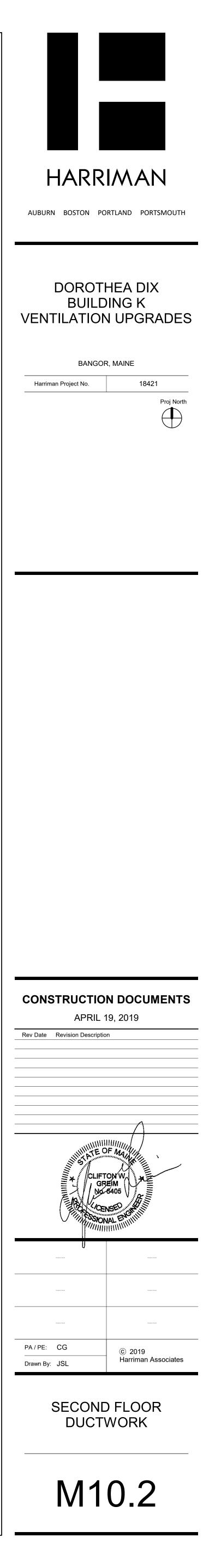
1 SECOND FLOOR DUCT PLAN SCALE: 1/8" = 1'-0"

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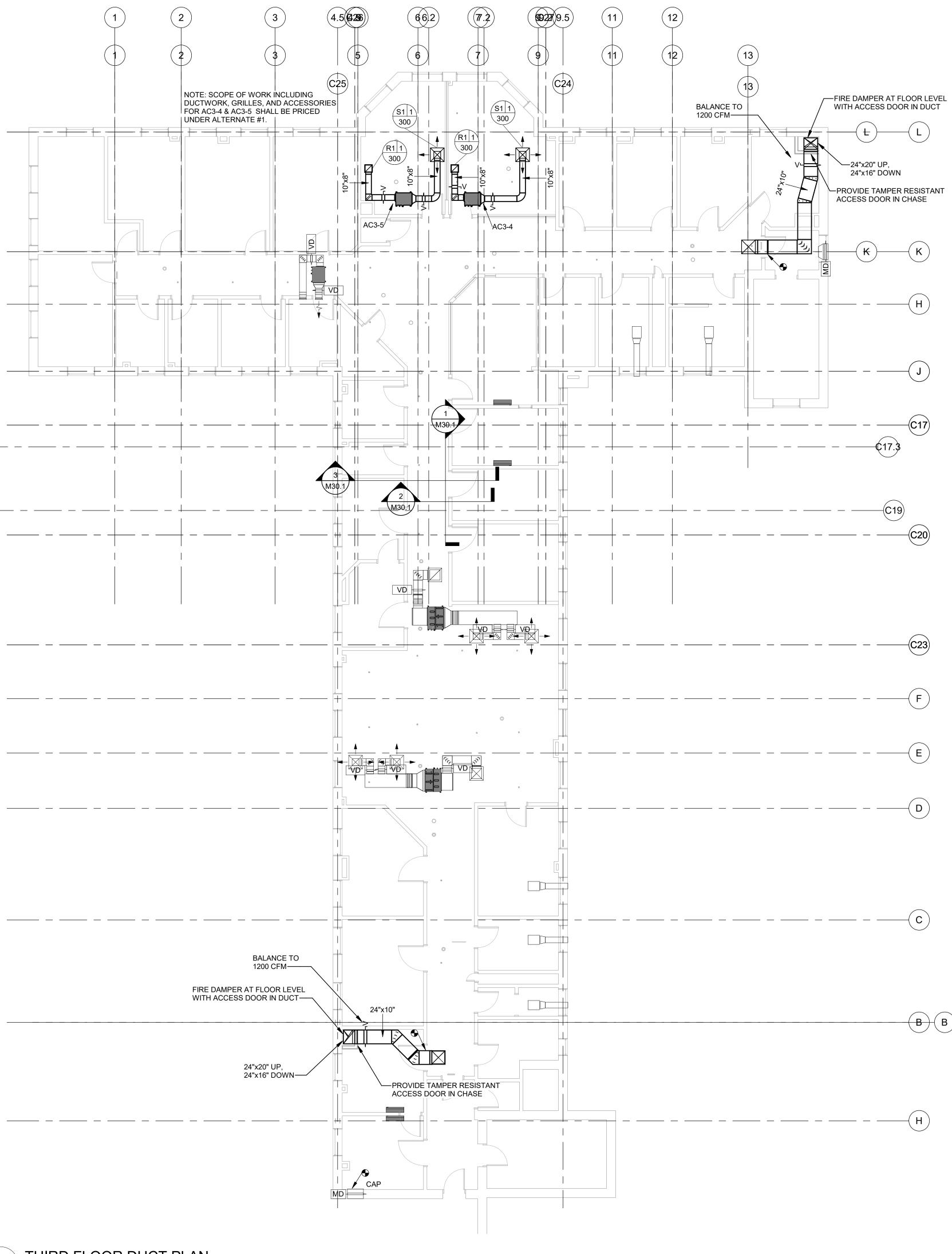
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E DAMPER AT FLOOR LEVEL
TH ACCESS DOOR IN DUCT

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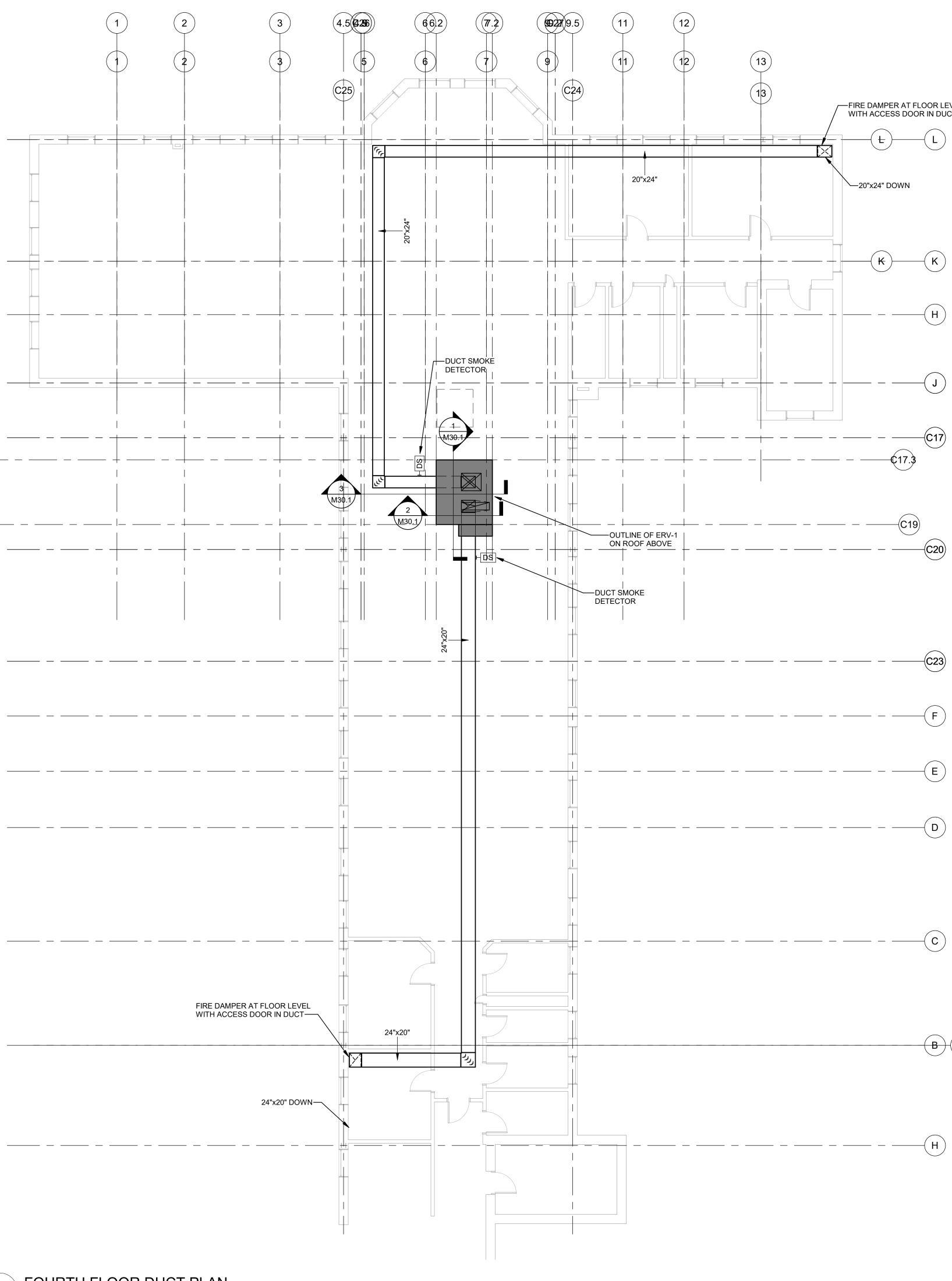
FOURTH FLOOR DUCT PLAN SCALE: 1/8" = 1'-0"

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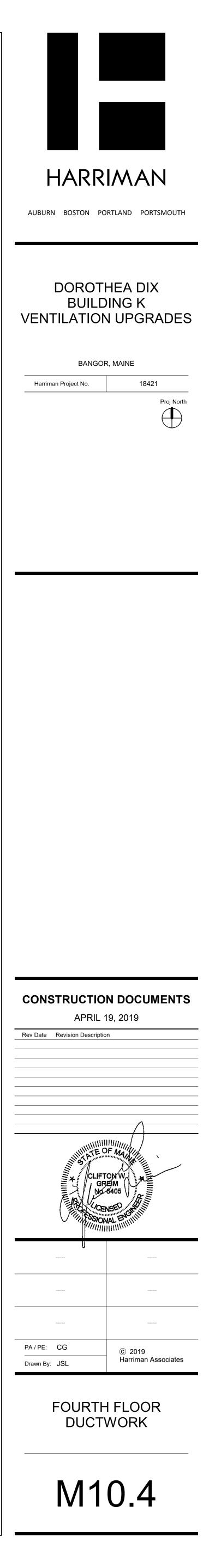
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20"x24" DOWN

FIRE DAMPER AT FLOOR LEVEL 





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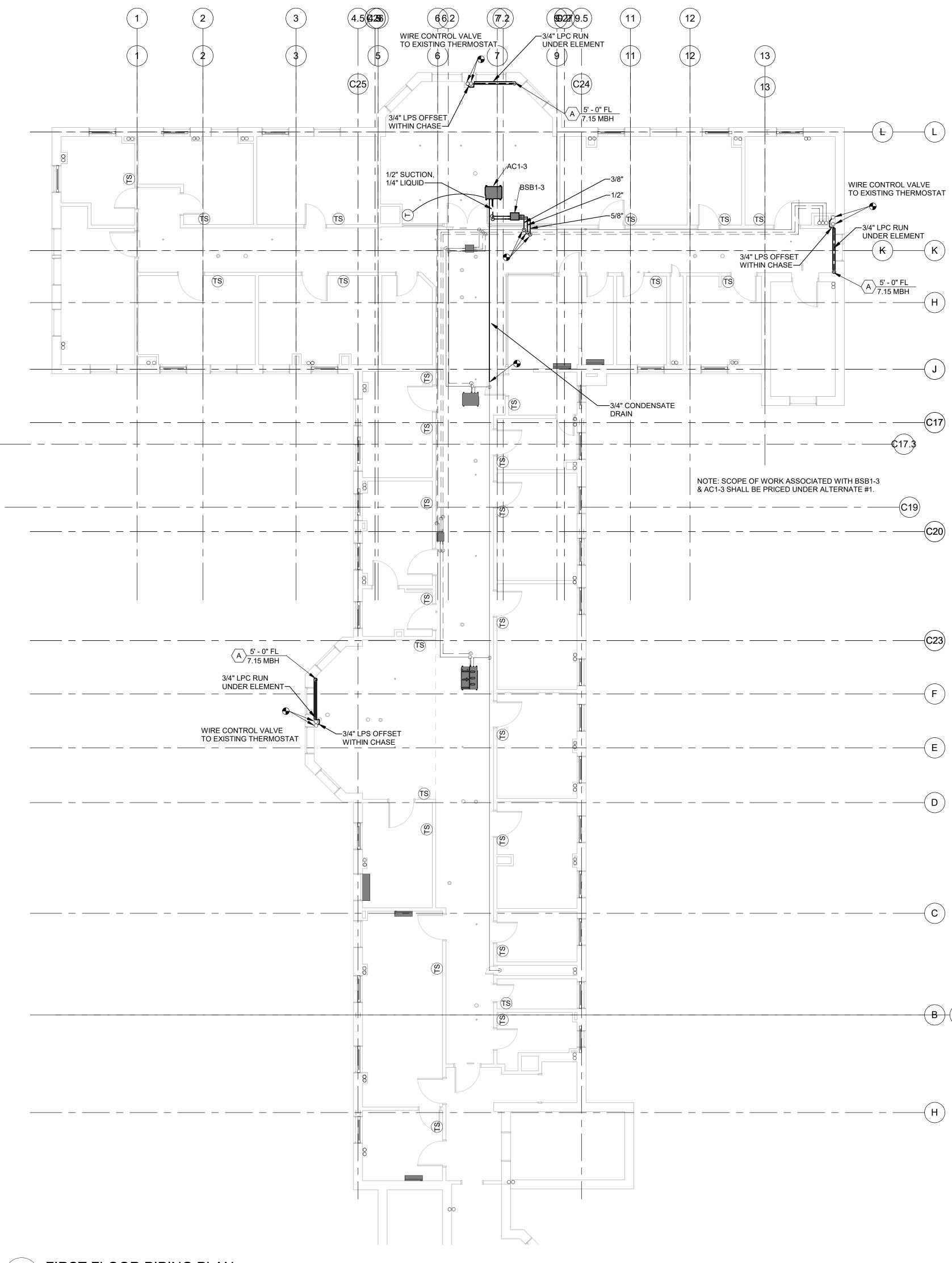
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### WIRE CONTROL VALVE TO EXISTING THERMOSTAT ✓ 3/4" LPC RUN UNDER ELEMENT —( K ` **₭** ) A 5' - 0" FL 7.15 MBH

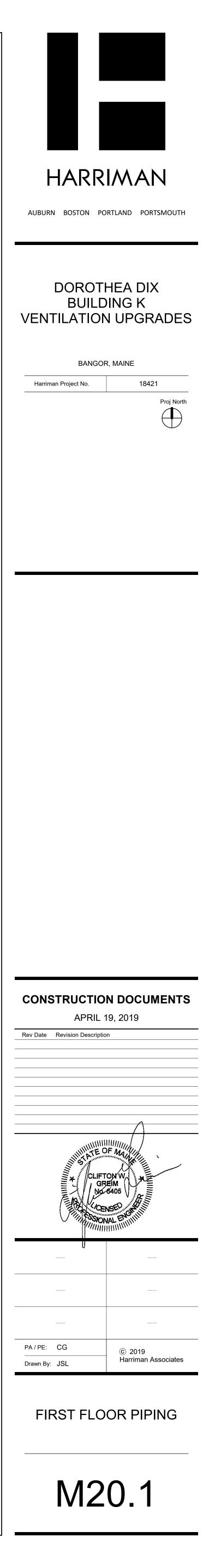
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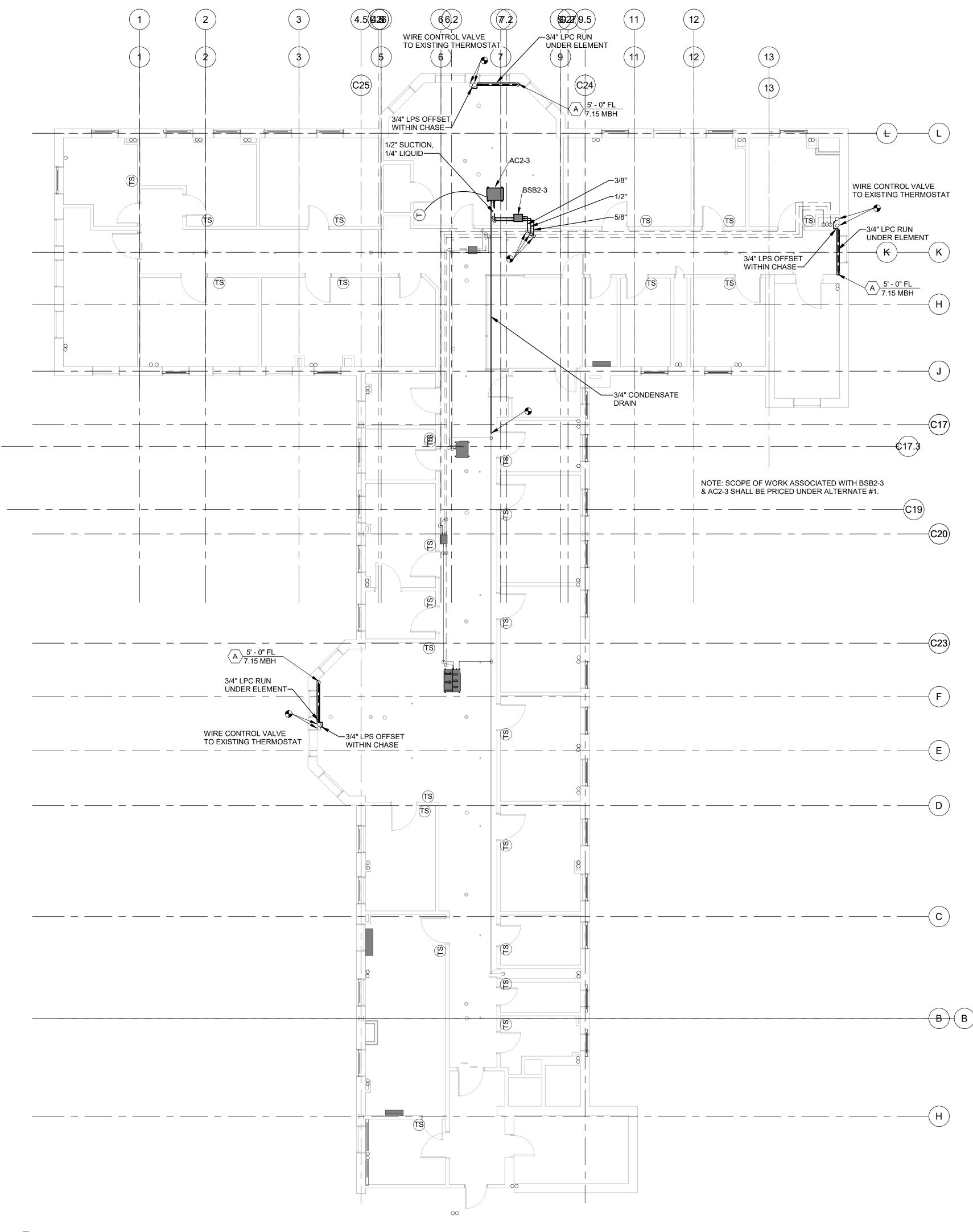


SECOND FLOOR PIPING PLAN SCALE: 1/8" = 1'-0"

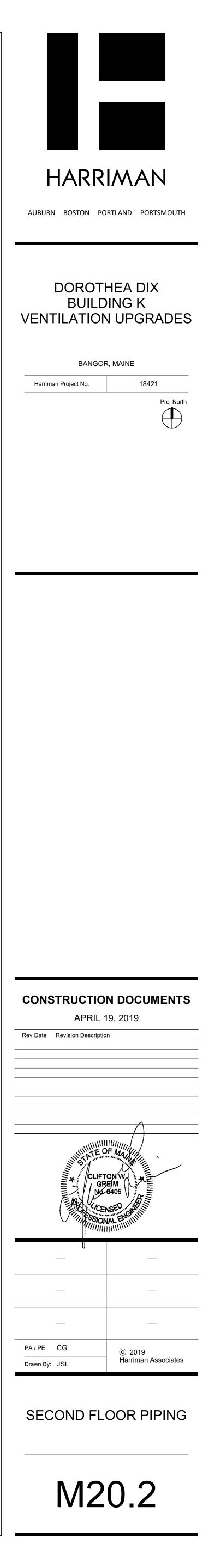
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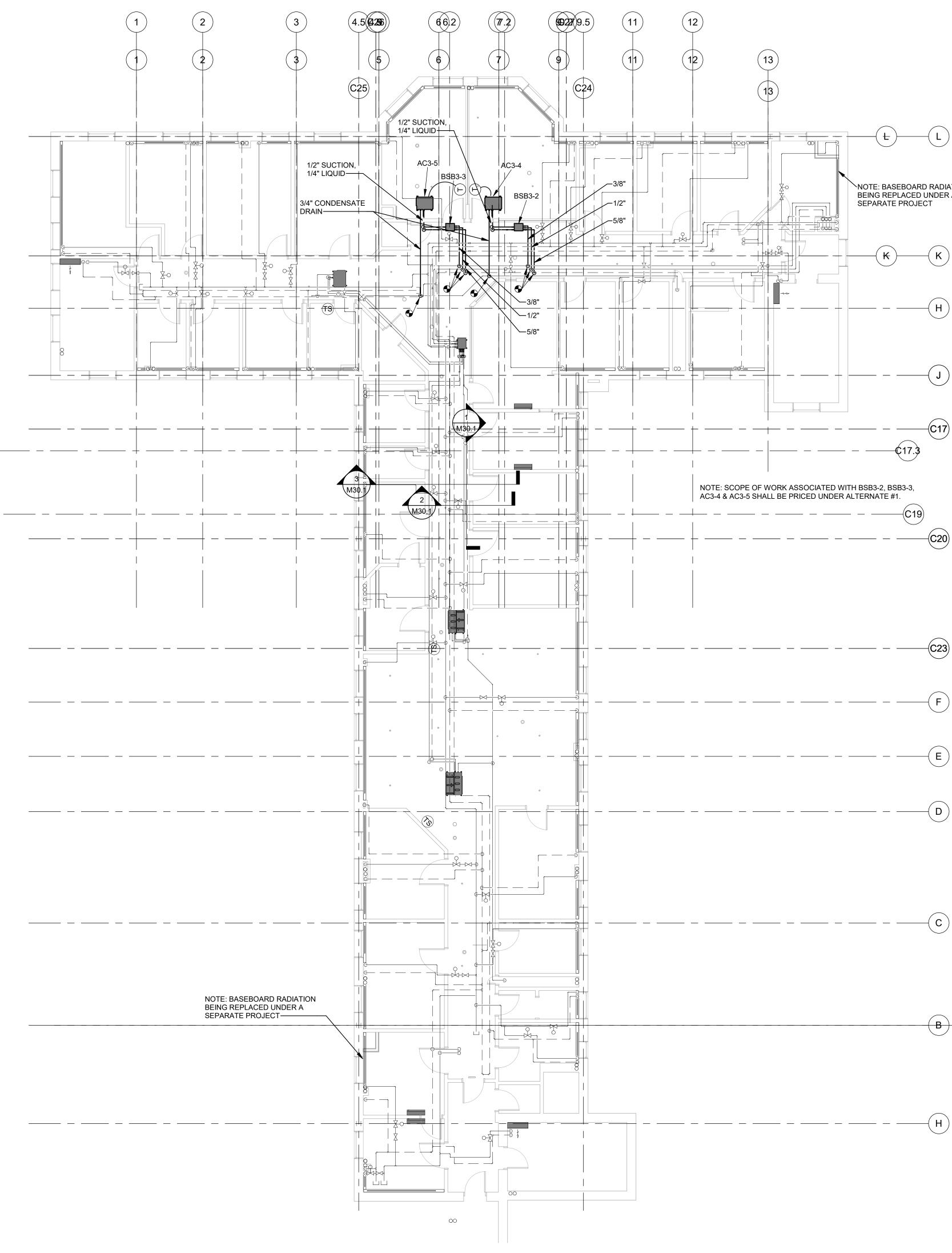


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### NOTE: BASEBOARD RADIATION BEING REPLACED UNDER A SEPARATE PROJECT

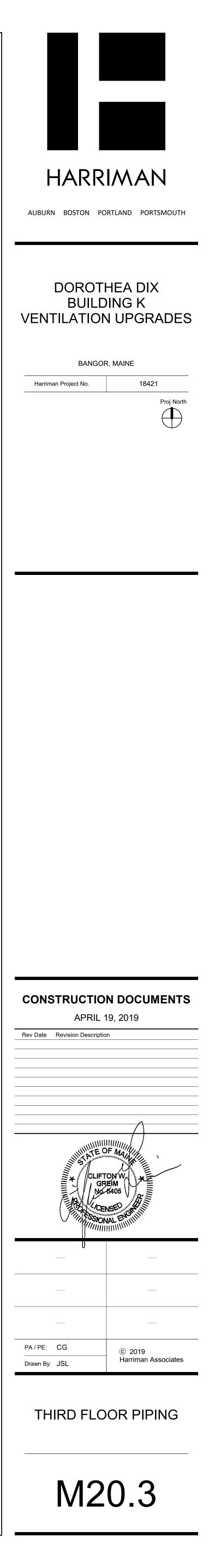
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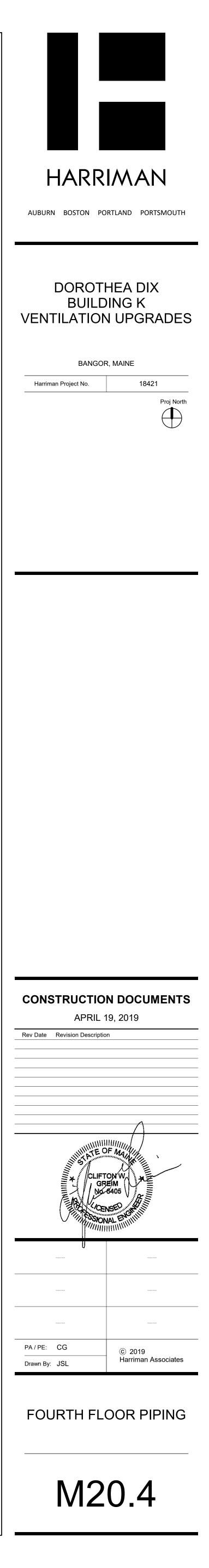
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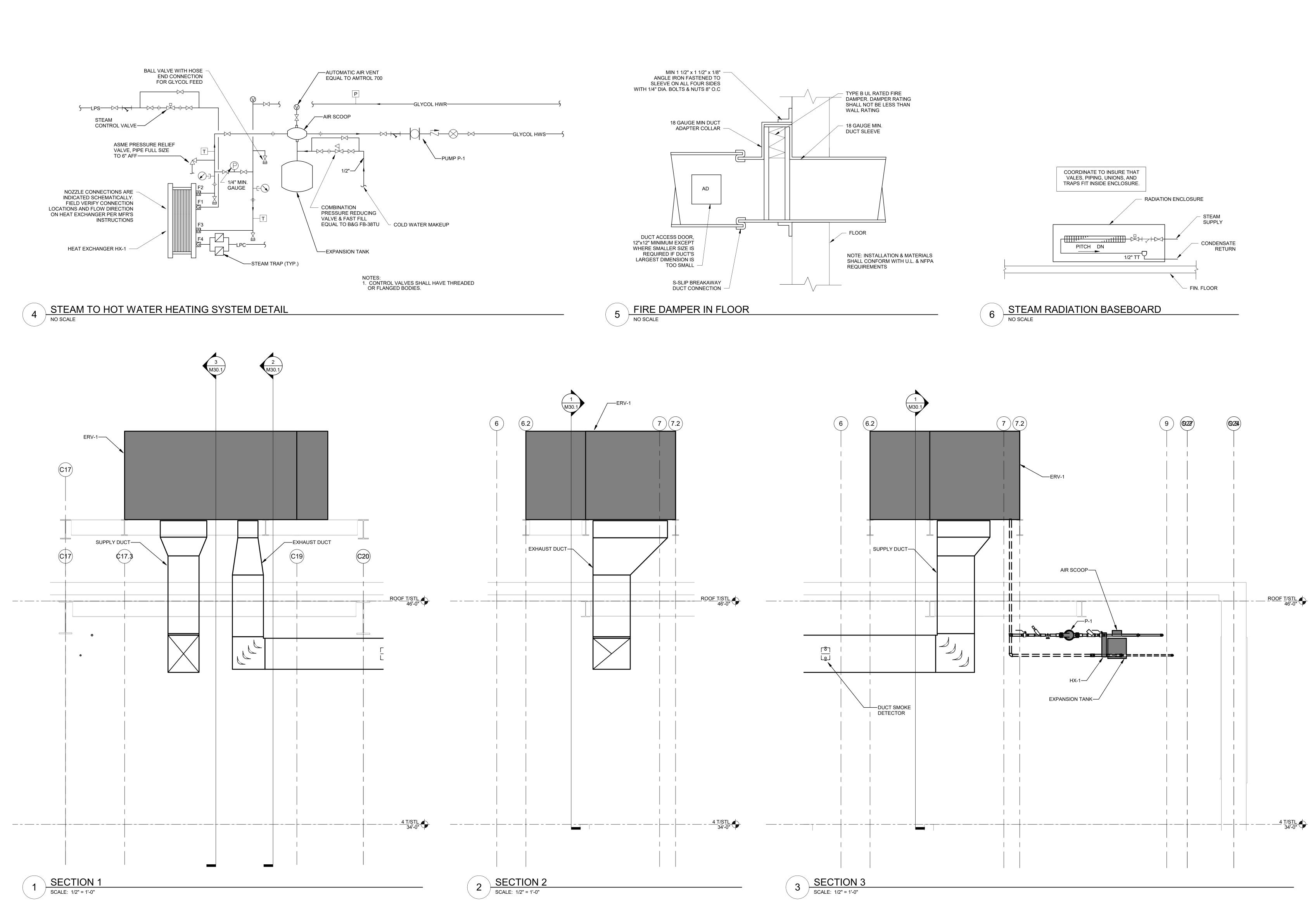
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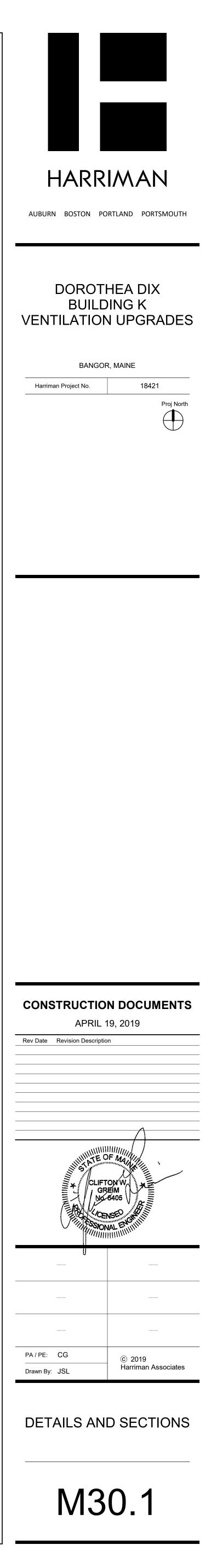


FOURTH FLOOR PIPING PLAN SCALE: 1/8" = 1'-0"









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

	HEAT EXCHANGER SCHEDULE												
						STEAM GLYC					OT WATER		I
TAG	MANUFACTURER	MODEL	SERVICE	CAPACITY (MBTUH)	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	NOTES
TAG	MANUFACIURER	WODEL	SERVICE			(DEG, F)	(DEG, P)	(F31)	(DEG.F)	(DEG.F)		ITFE	NUTES
HX-1	BELL & GOSSETT	BP405-20	ERV-1	200	209	239	239	10	140	183	10	30% PG	

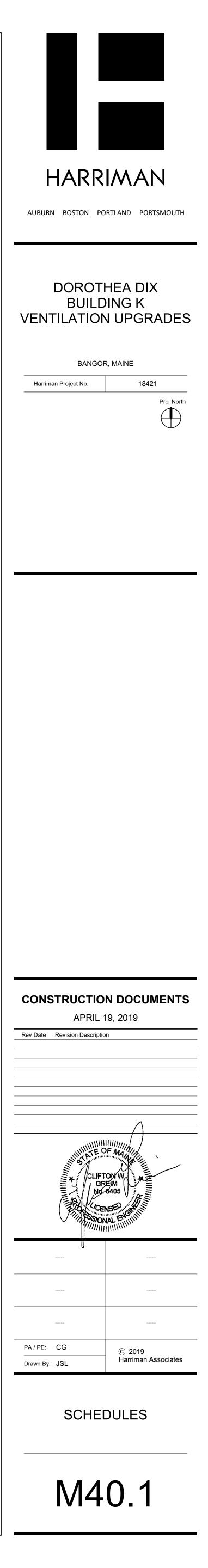
REGISTERS, GRILLES & DIFFUSERS SCHEDULE												
TAG	MANUFACTURER	MODEL	TYPE	NECK SIZE (IN)	DIRECTION OF BLOW	MAX NC	MAX SP	DAMPER	FINISH	BORDER	NOTES	
R1/S1	PRICE INDUSTRIES	MSRRP	SECURITY	12 x 12	N/A	20	0.09 in-wg	NONE	BAKED ENAMEL WHITE	SURFACE MOUNT	1	

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	5-5/16"x 12"	STEAM	

				VR	V SCH	EDULE					
			TOTAL	TOTAL	TOTAL				ELECTRICA	L	
TAG	MANUFACTURER	MODEL	HEATING CAPACITY (MBH)		CAPACITY (MBH)	DIMENSIONS (W x H x D) in	MOUNTING TYPE	MOPD	PHASE	VOLTS	NOTES
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									/ERY \	

	ENERGY RECOVERY VENTILATOR SCHEDULE																					
	OUTDOOR AIR     INDOOR AIR					SUPPI	Y AIR		F	ELE												
			SUPPLY	SUPPLY		EXHAUST			SUMMER	SUMMER	WINTER	WINTER	SUMMER	SUMMER	WINTER	WINTER	SUMMER	SUMMER	WINTER	WINTER	· · · · ·	[
			AIR FLOW	EXT SP	SUPPLY	AIR FLOW		EXHAUST	DB	WB	DB	WB	DB	RH	DB	RH	DB	WB	DB	WB	1 !	1
TAG	MFR	MODEL	(CFM)	(IN)	HP	(CFM)	(IN)	HP	(DEG.F)	(DEG.F)	(DEG.F)	(DEG.F)	(DEG.F)	(%)	(DEG.F)	(%)	(DEG.F)	(DEG.F)	(DEG.F)	(DEG.F)	VOLTS	1
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	

LECTRICAL	-	FILTER		
PHASE	MCA	EFF'Y	WEIGHT (LBS)	NOTES
3	53.5	MERV 8	2490 LBS	



### ELECTRICAL LEGEND

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HOMERUN TO PNLBRD - ARROWS INDICATE NUMBER OF CIRCUITS. CROSS LINES INDICATE NUMBER OF CONDUCTORS OTHER THAN TWO (PROVIDE NUMBER OF WIRES REQUIRED TO ALLOW SWITCHING SHOWN). CIRCUIT NUMBER(S)

PANEL DESIGNATION

- DUPLEX RECEPTACLE MOUNTED C/L UP 24" AFF
- QUAD DOUBLE DUPLEX RECEPTACLE MOUNTED C/L UP 24" AFF
- GFI DUPLEX RECEPTACLE MOUNTED C/L UP 24" AFF
- JUNCTION BOX
- FUSED DISCONNECT
- UNFUSED DISCONNECT
- MANUAL MOTOR STARTER OR APPLIANCE CONTROL
- PANELBOARD
- FIRE ALARM DUCT SMOKE DETECTOR
- "WP" INDICATES WEATHER PROOF
- EXISTING ITEMS SHOWN DASHED

### **GENERAL NOTES**

- 1. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE LATEST EDITION OF NFPA 70, NATIONAL ELECTRICAL CODE (NEC), OSHA REGULATIONS, AS WELL AS APPLICABLE REGULATIONS OF THE PERTINENT FEDERAL, STATE, COUNTY, AND CITY AGENCIES. PROVIDE MATERIALS AND EQUIPMENT THAT COMPLY WITH ANSI, IEEE, IES, AND NEMA 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, CONDUITS, SPATIAL CONSIDERATIONS AND ALL OTHER PERTINENT 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. VERIFY EXISTING SYSTEMS THAT WILL BE UTILIZED FOR CONNECTION TO THE NEW SYSTEM. IF DISCREPANCIES EXIST BETWEEN THE CONTRACT DRAWINGS AND THE ACTUAL EXISTING CONDITIONS, THE ELECTRICAL SUBCONTRACTOR SHALL NOTIFY THE ENGINEER/OWNER PRIOR TO PROCEEDING WITH THE INSTALLATION.
- 3. CONDUIT RUNS ARE SHOWN DIAGRAMATICALLY. INSTALL CONDUIT WITH A MINIMUM OF BENDS IN THE SHORTEST 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 AND PARTITIONS SHALL BE SEALED WITH UL APPROVED FIRE SEALANT MATERIAL TO MAINTAIN THE RATING OF THE SEPARATION.
- 6. ALL VARIABLE FREQUENCY DRIVES (VFD) SHALL BE PROVIDED BY MECHANICAL CONTRACTOR AND INSTALLED BY ELECTRICAL CONTRACTOR. ELECTRICAL CONTRACTOR SHALL CIRCUIT ALL VFDS AND PROVIDE ALL MOTOR RATED SWITCHES AND DISCONENCT SWITCHES.
- 7. UNLESS OTHERWISE NOTED, WIRING SHALL BE 2#12 AWG CONDUCTORS & #12 GND. HOMERUNS FED FROM 20A, SINGLE POLE CIRCUITS IN EXCESS OF 100 FEET SHALL BE #10 AWG UNLESS INDICATED OTHERWISE. INSULATION TYPE SHALL BE THHN/TWHN, 75 DEG. C, AND 600V CLASS UNLESS SPECIFIED OTHERWISE.

- FLEXIBLE LIQUID TIGHT CONDUIT.

- ENGINEER FOR CLARIFICAION WHEN SUCH A SITUATION OCCURS.
- 13. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT
- CONTINUITY OF EXISTING ELECTRICAL SERVICE.
- ACCESSORIES SHALL BE EXTENDED, RELOCATED OR REPLACED WHERE REQUIRED.

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### GENERAL NOTES (CON'T)

8. FLEXIBLE CONNECTIONS TO MOTORS SHALL BE 9. UNLESS OTHERWISE NOTED, ALL WIRING SHALL BE 600V, COPPER WITH THHN-THWN INSULATION. 10. ALL GENERAL NOTES, SYMBOLS, LISTS, ABBREVIATIONS 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

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 SUBSTITUTIONS SHALL BE SUBJECT TO THE APPROVAL OF THE OWNER.

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

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

17. WHERE IT IS INDICATED THAT EXISTING WIRING IS TO BE REUSED, THE ELECTRICAL SUBCONTRACTOR SHALL VERIFY THAT THE INTEGRITY OF THE INSULATION IS ADEQUATE FOR REUSE. ALL SUSPECT WIRING SHALL BE REPLACED BY THE SUBCONTRACTOR.

18. PROVIDE TEMPORARY LIGHT AND POWER AS REQUIRED WITHIN THE CONSTRUCTION SCOPE OF WORK AREA.

### FIRE ALARM SYSTEM NOTES

- 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.

### JUNCTION BOX IDENTIFICATION COLOR CODE CHART

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



AUBURN BOSTON PORTLAND PORTSMOUTH

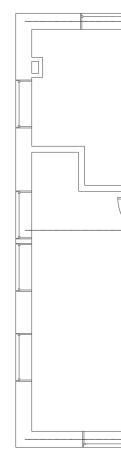




SCHEDULES

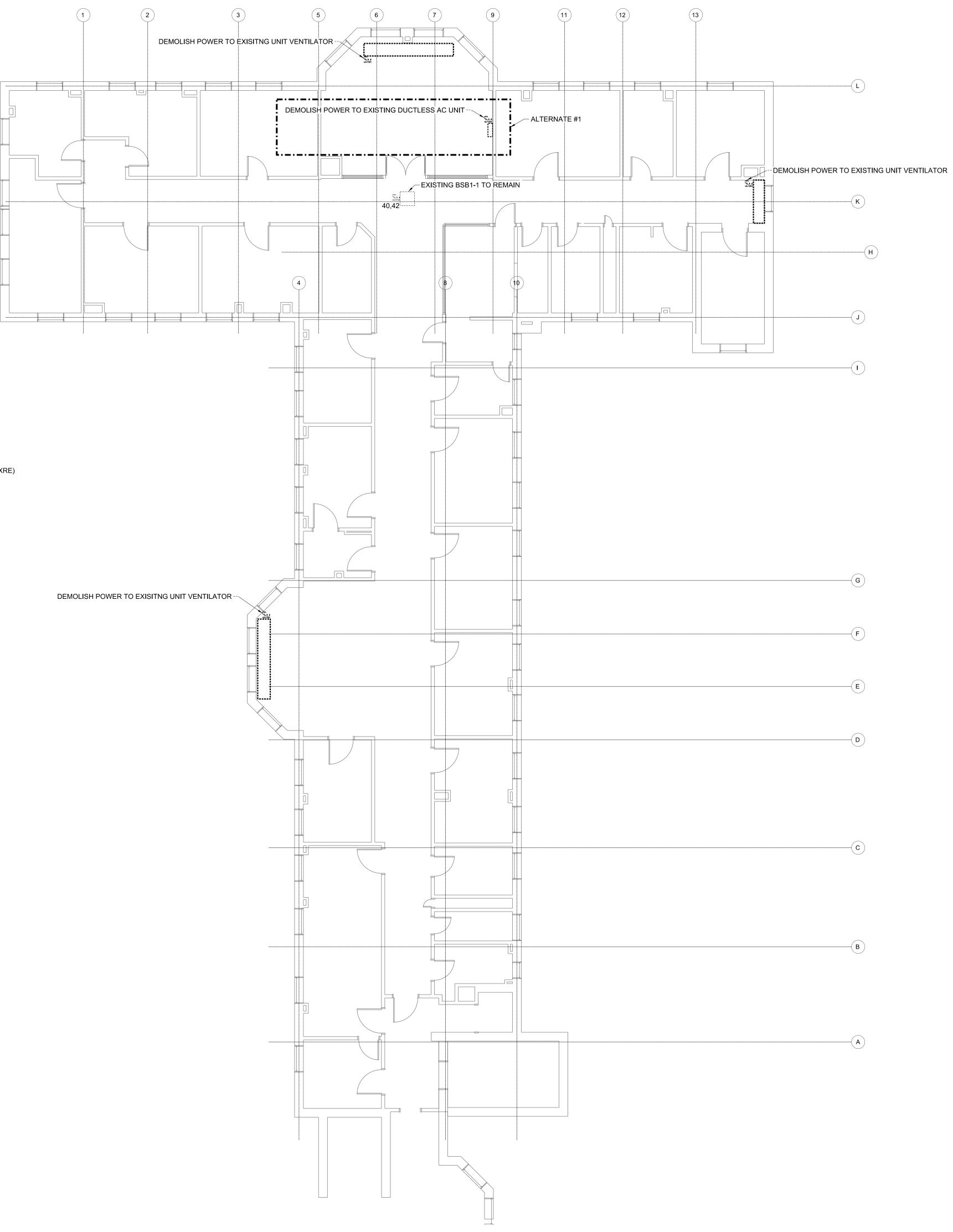
### **DEMOLITION NOTES:**

- 1. ELECTRICAL INDICATED IS AS GENERALLY FOUND (APRIL 2017). THE INTENT OF THE DEMOLITION PLAN(S) IS TO DOCÚMENT EXISTING CONDITIONS. HOWEVER, ÁLL ELECTRICAL DEVICES MAY NOT NECESSARILY BE INDICATED 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 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.
- 3. ALL EXISTING ITEMS INTENDED FOR REMOVAL SHALL BE REMOVED WITH ALL ASSOCIATED HARDWARE INCLUDING, BUT NOT LIMITED TO: CONDUIT, BOXES, WIRING, CABLES, HANGERS, ETC...
- 4. COORDINATE WITH MECHANICAL AND PLUMBING DRAWINGS FOR MECHANICAL AND PLUMBING EQUIPMENT TO BE REMOVED. REMOVE ALL ASSOCIATED CONDUIT, 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 PROPER OPERATION OF SYSTEMS.

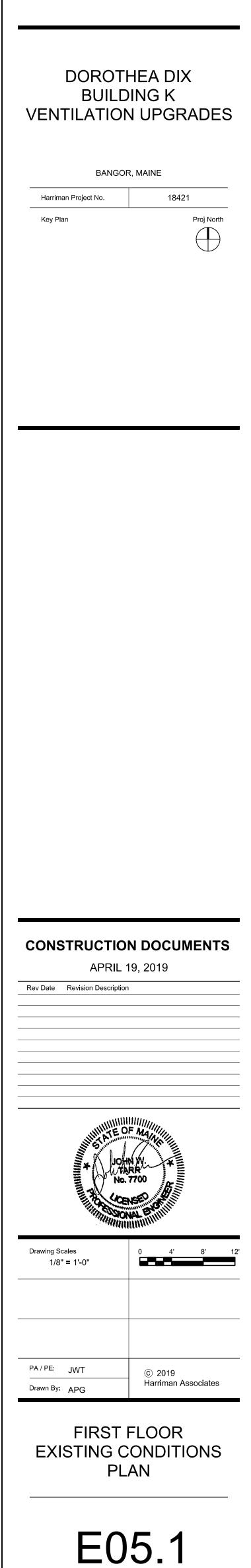


### LEGEND:

EXISTING EQUIPMENT TO REMAIN IS INDICATED BY LIGHT AND DASHED:	$\binom{1}{1}{\binom{1}{1}}{\frac{1}{1}}$
EXISTING EQUIPMENT TO BE DEMOLISHED IS INDICATED AS BOLD AND DASHED:	ſ <u>₽</u> )
EXISTING EQUIPMENT TO BE BE MODIFIED IS INDICATED AS BOLD AND DASHED WITH TEXT ADJACENT:	∰ (XRE





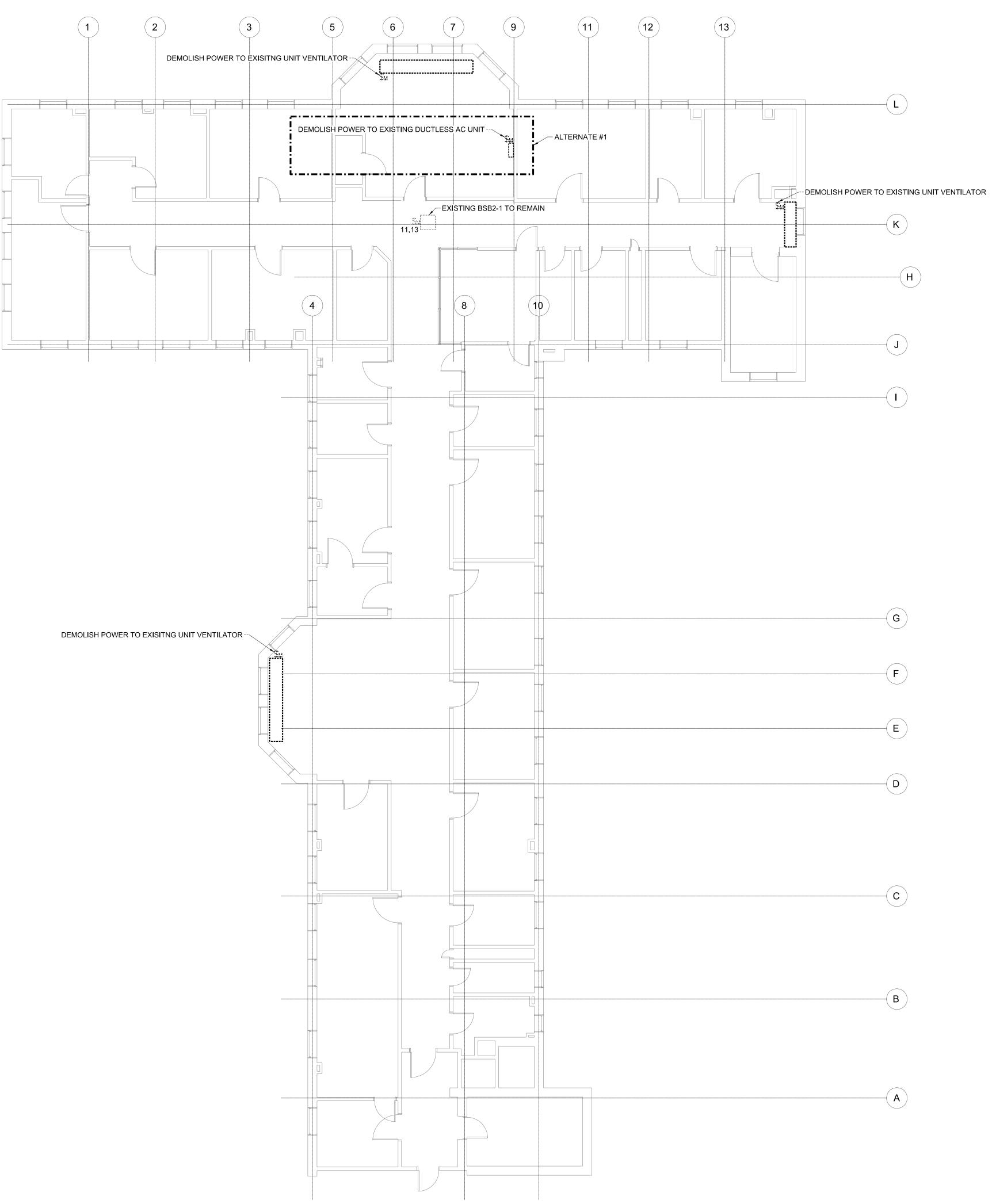


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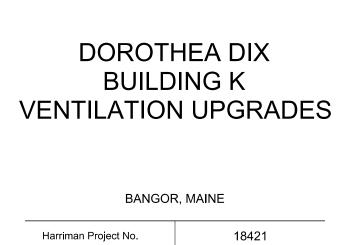
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EXISTING EQUIPMENT TO BE DEMOLISHED IS INDICATED AS BOLD AND DASHED:	∰ ∐
EXISTING EQUIPMENT TO BE BE MODIFIED IS INDICATED AS BOLD AND DASHED WITH TEXT ADJACENT:	(T) (XRE)





AUBURN BOSTON PORTLAND PORTSMOUTH



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Key Plan

CONSTRUCTION DOCUMENTS APRIL 19, 2019 Rev Date Revision Description Drawing Scales 0 4' 8' 1/8" = 1'-0" PA / PE: JWT ⓒ 2019 Harriman Associates Drawn By: APG SECOND FLOOR EXISITNG CONDITIONS PLAN



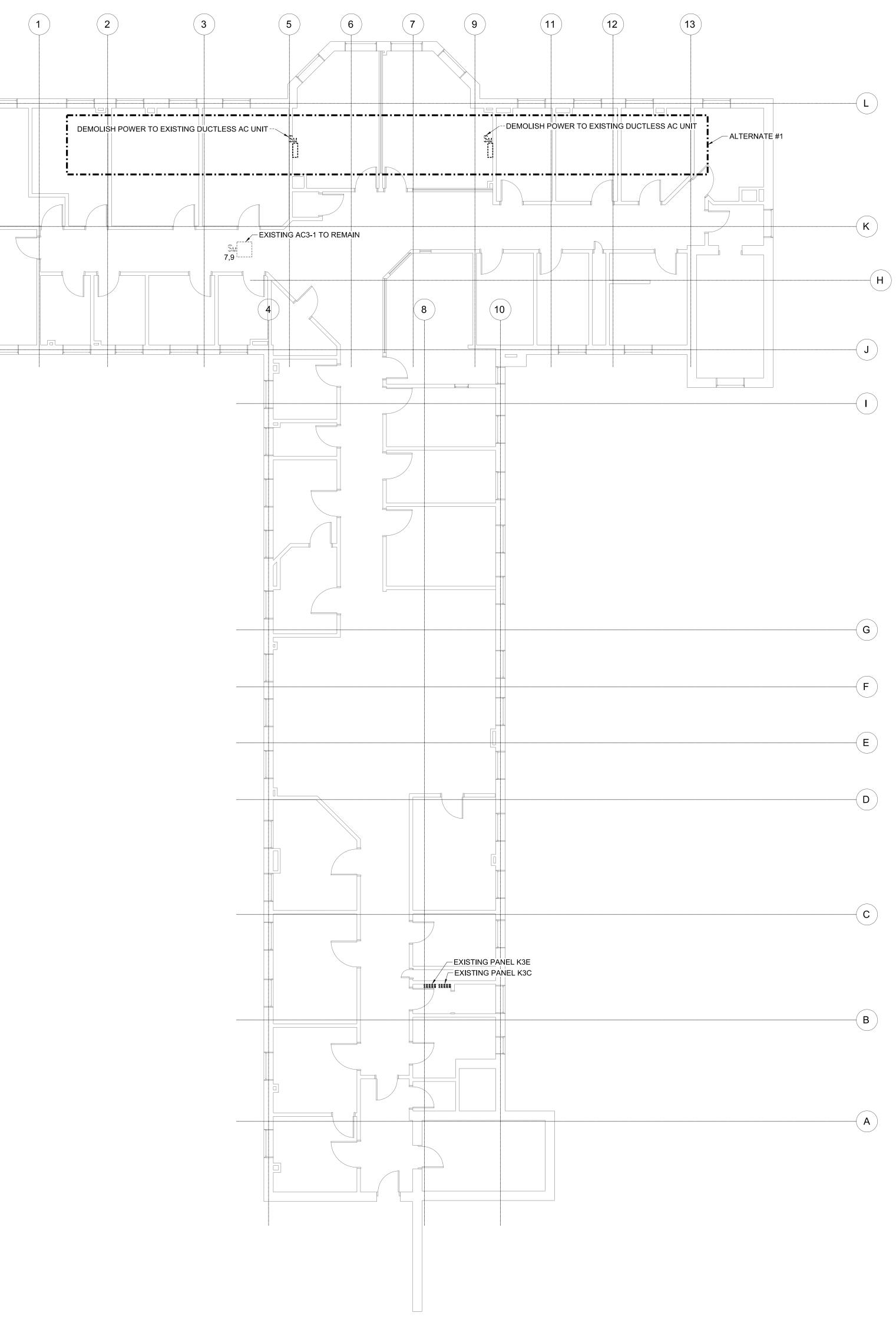
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- 2. REFER TO FLOOR PLANS TO DETERMINE EXTENT OF WORK IN EACH AREA, INCLUDING WHETHER DEVICES ARE TO REMAIN, BE REMOVED, REPLACED, ETC... EXCEPT AS NOTED, GENERALLY THE INTENT IS THAT IF EXISTING DEVICES ARE SHOWN ON THE DEMOLITION PLANS AND NEW DEVICES 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.
- 3. ALL EXISTING ITEMS INTENDED FOR REMOVAL SHALL BE REMOVED WITH ALL ASSOCIATED HARDWARE INCLUDING, BUT NOT LIMITED TO: CONDUIT, BOXES, WIRING, CABLES, HANGERS, ETC...
- 4. COORDINATE WITH MECHANICAL AND PLUMBING DRAWINGS FOR MECHANICAL AND PLUMBING EQUIPMENT TO BE REMOVED. REMOVE ALL ASSOCIATED CONDUIT, 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 PROPER OPERATION OF SYSTEMS.

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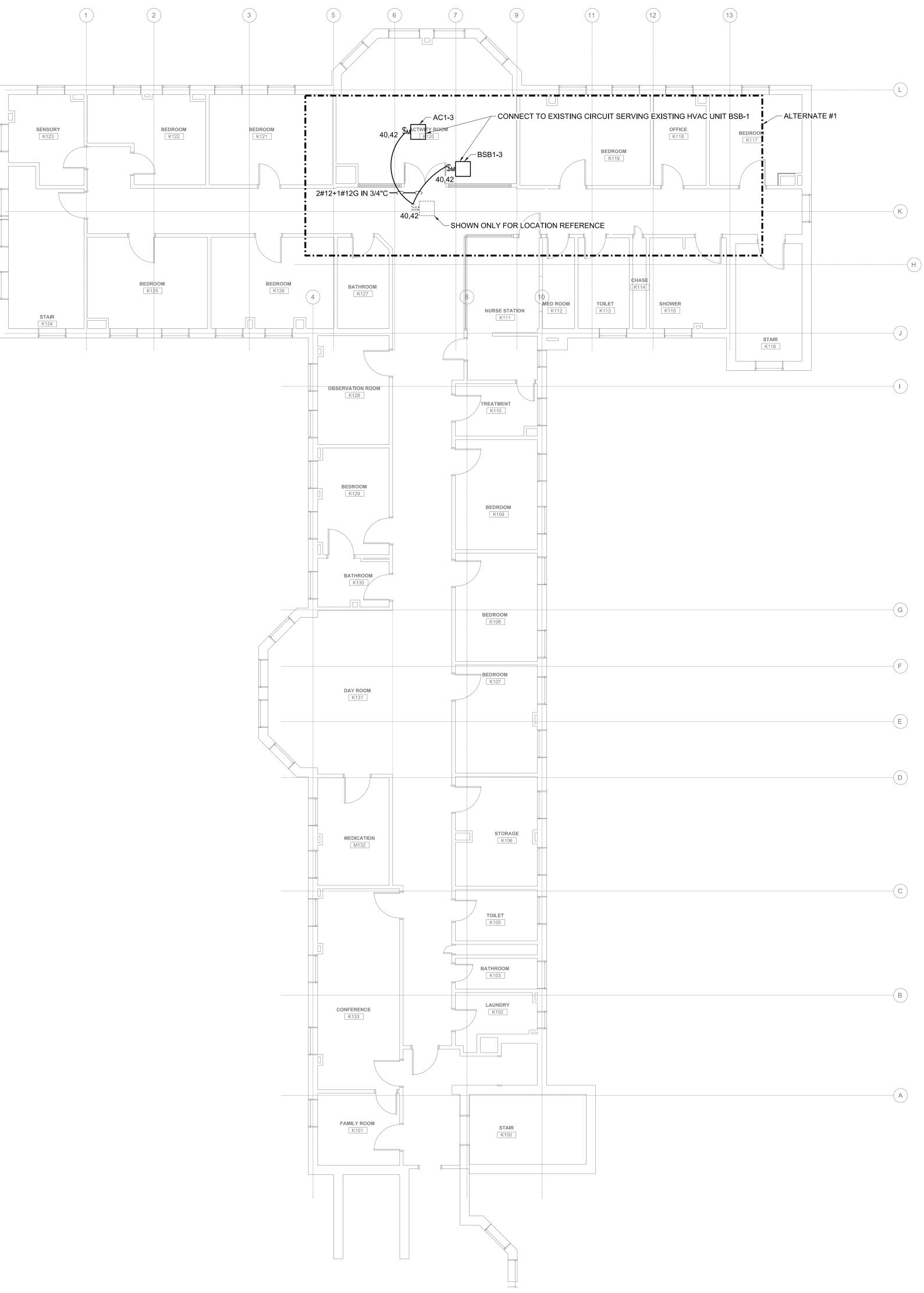
### LEGEND:

EXISTING EQUIPMENT TO REMAIN IS INDICATED BY LIGHT AND DASHED:	(1) 11
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:	(INRE)

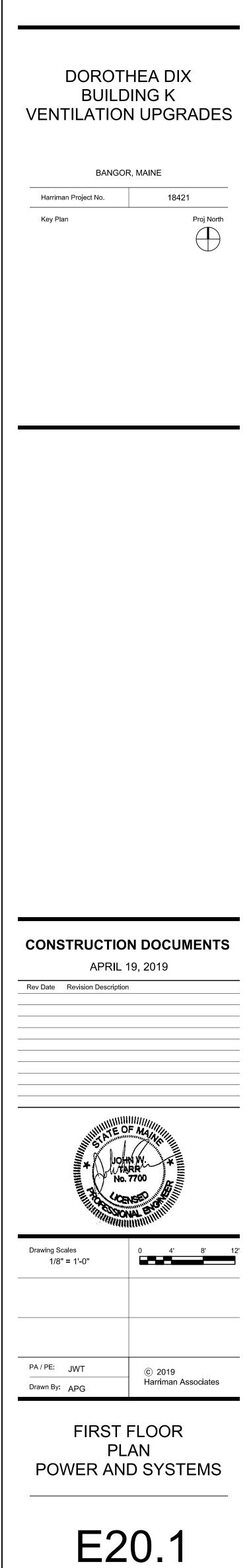


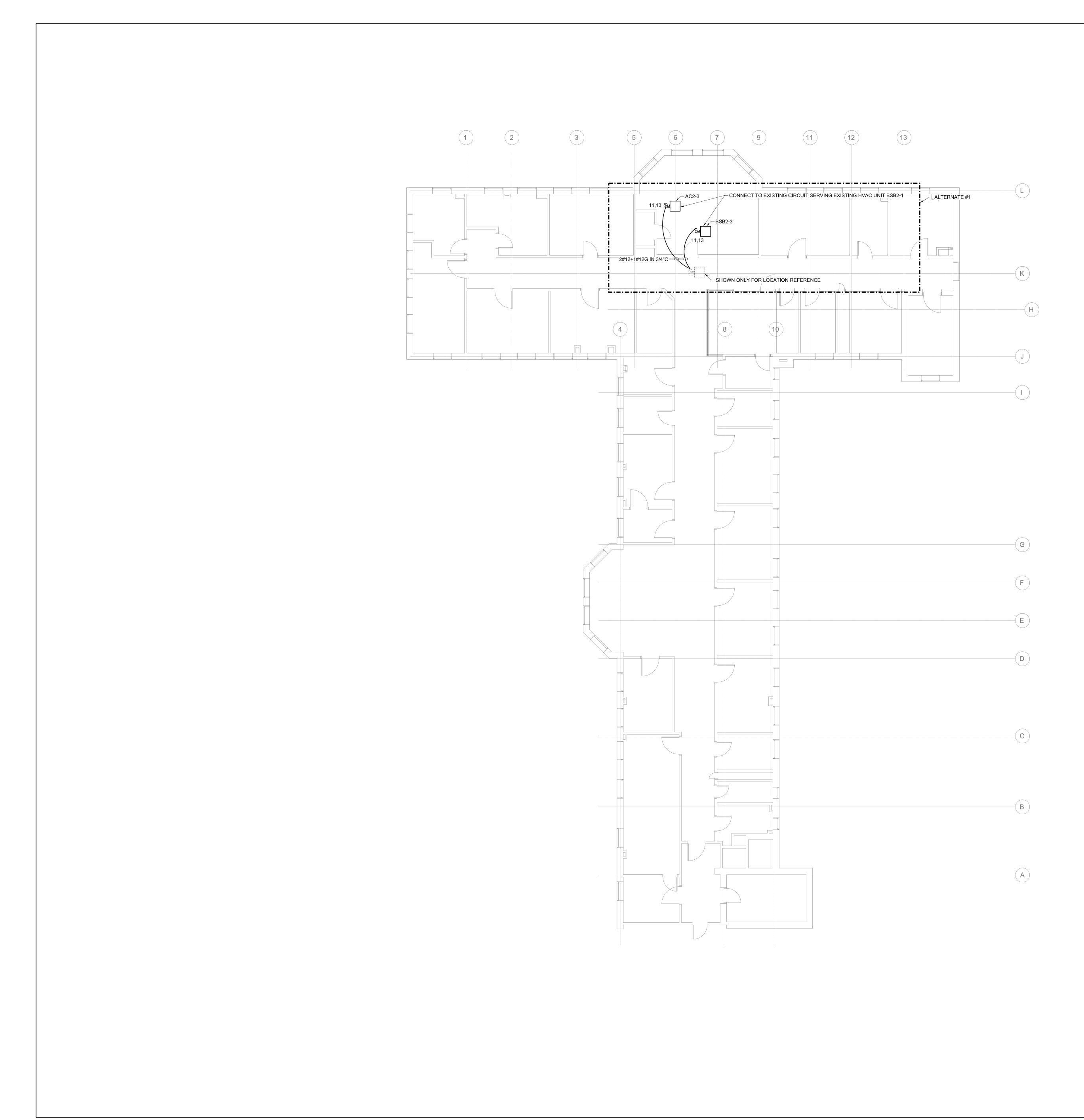








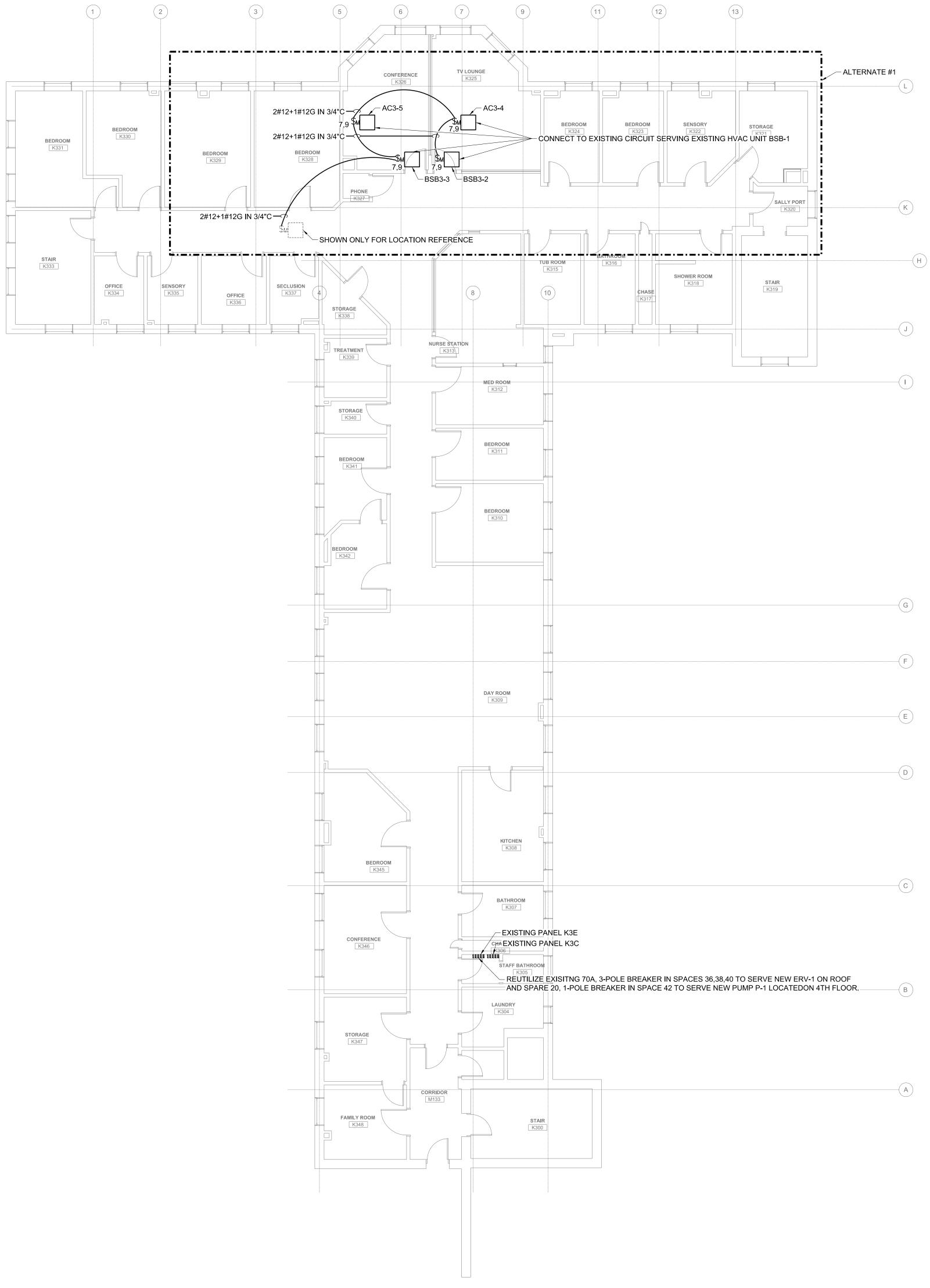




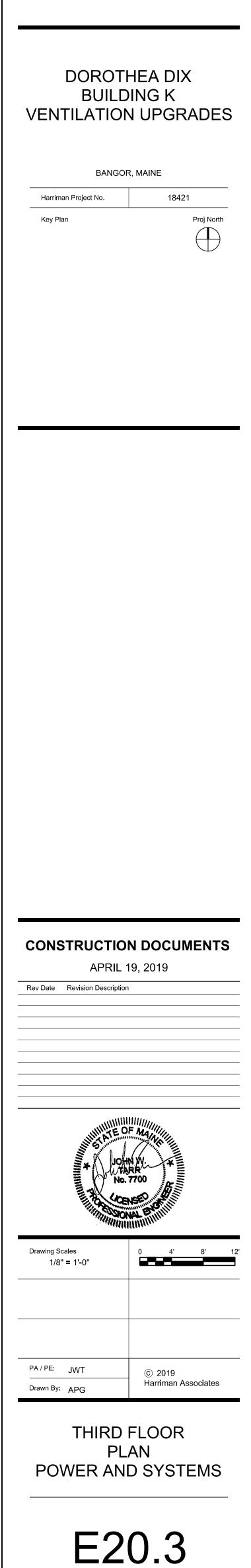


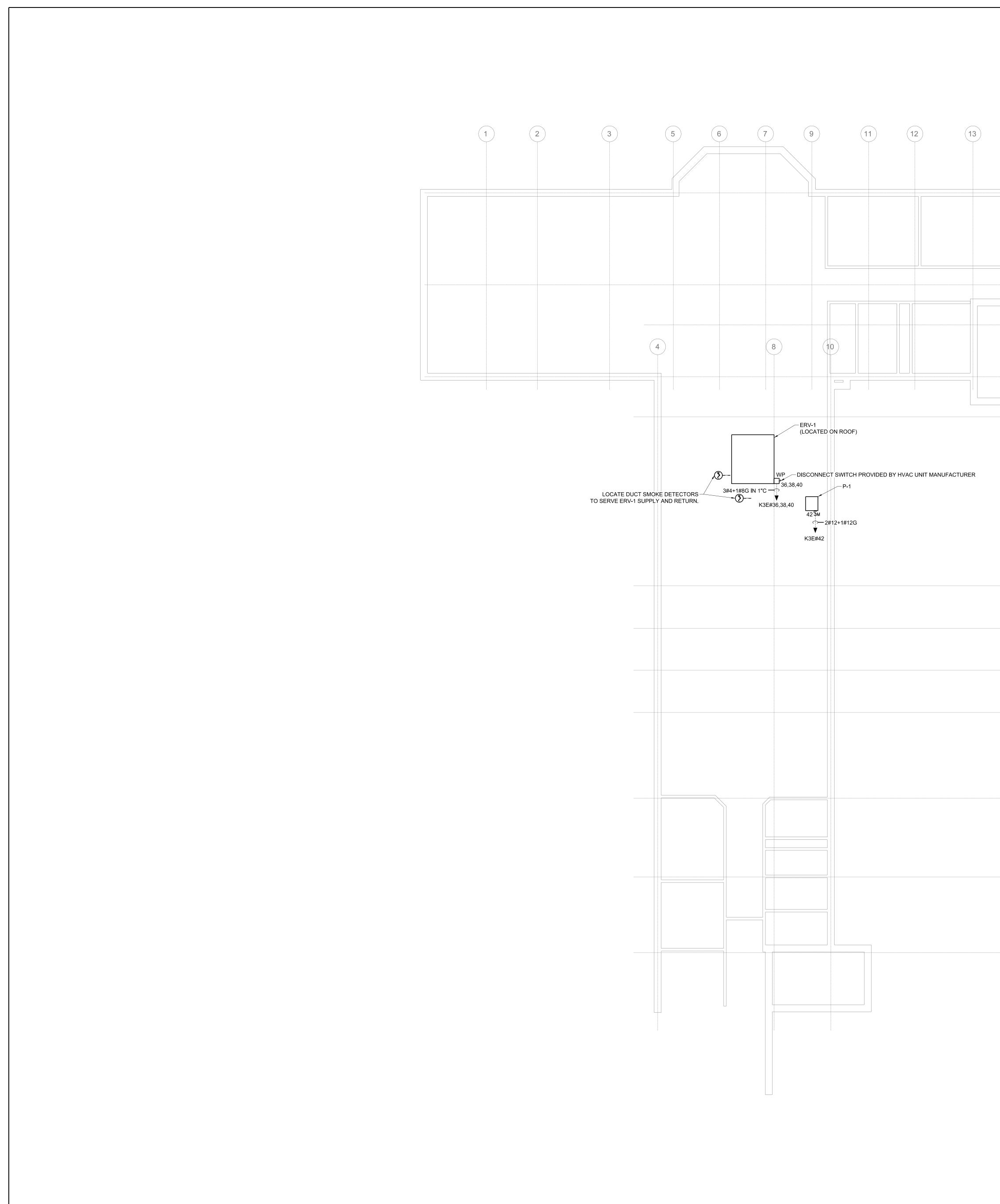


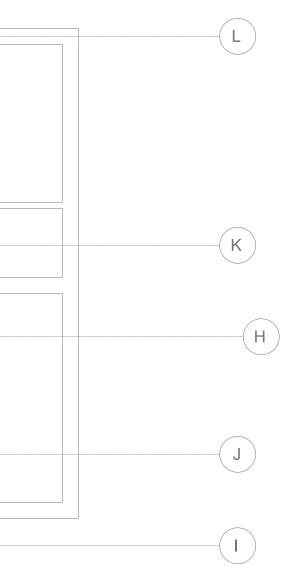
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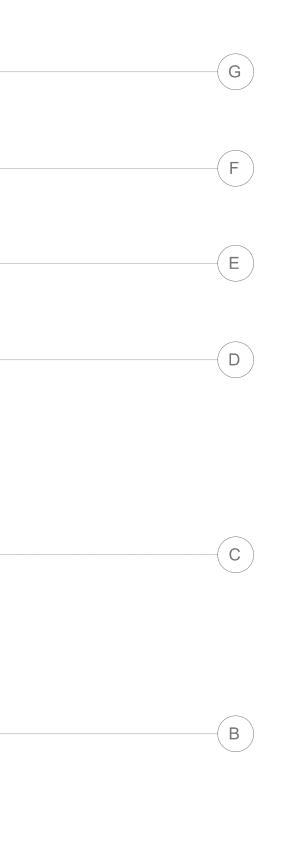












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