

# NORSE COMMONS AND HALL MECHANICAL RENOVATION

NORTHERN KENTUCKY UNIVERSITY

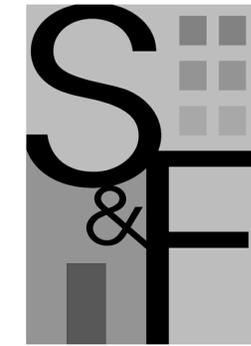


**PROJECT STATUS - CONTRACT SET**  
**DATE: 03-18-2021**

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## PRIME ENGINEERS



**STAGGS & FISHER**  
 CONSULTING ENGINEERS, INC.

3264 Loch Ness Drive  
 Lexington, KY 40517  
 859-271-3246

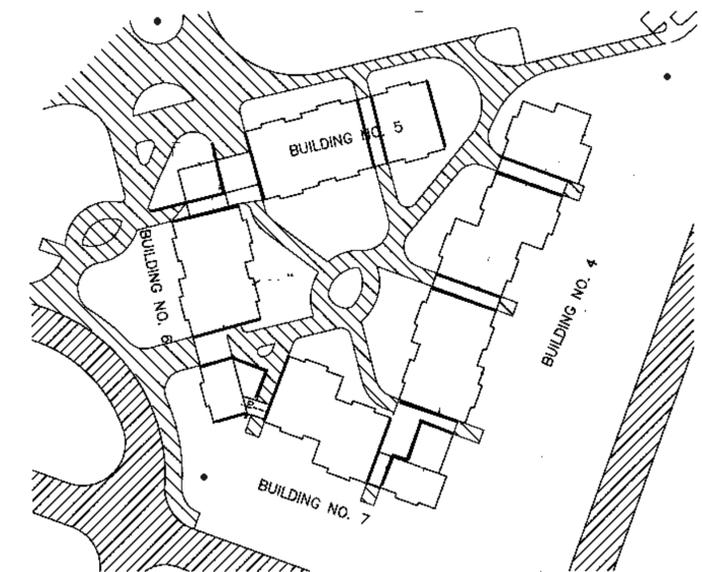
### OWNER

LOCATION  
 NUNN DRIVE  
 HIGHLAND HEIGHTS, KY 41099

### PROJECT ADDRESS

LOCATION  
 NUNN DRIVE  
 HIGHLAND HEIGHTS, KY 41099

### LOCATION MAP



Northern Kentucky University  
 Norse Hall

NKU # NKU-30-2021  
 DATE: 03/18/2021  
 SF JOB# 20536  
 DRAWN: CMR  
 CHECKED: GGC

SHEET

**C000**

## MECHANICAL LEGEND

PLUMBING LEGEND	
	SANITARY OR WASTE PIPING
	VENT PIPING
	KITCHEN WASTE PIPING
	ACID WASTE PIPING
	ACID WASTE VENT PIPING
	ROOF LEADER PIPING
	OVERFLOW ROOF LEADER PIPING
	STORM SEWER PIPING
	ELEVATOR SUMP PUMP DISCHARGE PIPING
	COLD WATER PIPING
	DOMESTIC HOT WATER PIPING
	DOMESTIC HOT WATER RECIRCULATING PIPING
	DOMESTIC HOT WATER SUPPLY PIPING (XXX INDICATES TEMPERATURE)
	DOMESTIC HOT WATER RECIRCULATING PIPING (XXX INDICATES TEMPERATURE)
	GAS PIPING
	AIR PIPING
	VACUUM PIPING
	SOFT COLD WATER
	REVERSE OSMOSIS WATER PIPING
	REVERSE OSMOSIS WATER RETURN PIPING
	LAB COLD WATER PIPING
	LAB HOT WATER PIPING
	LAB HOT WATER RECIRCULATING PIPING
	GATE VALVE
	BALL VALVE
	CHECK VALVE
	UNION
	PRESSURE GAUGE
	THERMOMETER
	WASTE AND VENT RISER DIAGRAM DESIGNATION
	DOMESTIC HOT/COLD WATER RISER DIAGRAM DESIGNATION
PLUMBING ABBREVIATIONS	
CI	CAST IRON
PCO	PIPE CLEANOUT
FCO	FLOOR CLEANOUT
WCO	WALL CLEANOUT
GCO	GRADE CLEANOUT
DCW	DOMESTIC COLD WATER
DHW	DOMESTIC HOT WATER
OHD	OPEN HUB DRAIN
OR	OPEN RECEPTACLE
PVC	POLY-VINYL CHLORIDE
RD	ROOF DRAIN
SA	SHOCK ARRESTOR
VTR	VENT-THROUGH-ROOF
VCP	VITRIFIED CLAY PIPE
ORD	OVERFLOW ROOF DRAIN
WH	WALL HYDRANT
HB	HOUSE BIBB
IMB	ICE MAKER BOX

HVAC ABBREVIATIONS	
A.A.V.	AUTOMATIC AIR VENT
A.D.	ACCESS DOOR
A.F.	ABOVE FLOOR
B.E.	BELLMOUTH ENTRANCE
C.	COMMON
D.P.	DIFFUSER PLATE
E.A.	EXHAUST AIR
E.M.D.	END OF MAIN DRIP
F.D.	FIRE DAMPER
F.M.S.	FLOW MEASURING STATION
F.S.D.	FIRE/SMOKE DAMPER
I.B.	INLET BELL
I.S.	INLET SCREEN
M.A.V.	MANUAL AIR VENT
M.D.	MOTOR OPERATED DAMPER
M.E.	MOISTURE ELIMINATORS
N.C.	NORMALLY CLOSED
N.O.	NORMALLY OPEN
O.A.	OUTSIDE AIR
P.A.	PRIMARY AIR
R.A.	RETURN AIR
S.A.	SUPPLY AIR
R.H.	RANGE HOOD
S.D.	SUCTION DIFFUSER
SM.D.	SMOKE DAMPER
T.A.V.	THERMOSTATIC AIR VENT
T.C.P.	TEMPERATURE CONTROL PANEL
V.B.	VACUUM BREAKER
V.D.	VOLUME DAMPER

HVAC LEGEND	
	RECTANGULAR DUCT - WIDTH X DEPTH (REFER TO PLANS FOR DUCT SIZE)
	INTERNALLY LINED DUCT
	OVAL DUCT - WIDTH X DEPTH
	FLEXIBLE DUCT
	RISE IN DIRECTION OF ARROW
	RECTANGULAR TO ROUND TRANSITION
	SQUARE ELBOW WITH TURNING VANES
	MANUAL VOLUME/BALANCING DAMPER
	FIRE DAMPER
	ROUND DUCT - UP, DOWN
	SUPPLY DUCT - UP, DOWN
	RETURN DUCT - UP, DOWN
	EXHAUST DUCT - UP, DOWN
	FLEXIBLE CONNECTION
	MOTOR-OPERATED DAMPER
	CONTROL DAMPER
	SOUND TRAP
	ACCESS DOOR - PLAN, SIDE VIEW
	UNIT SYMBOL, WATER FLOW (GPM)
	STATIC PRESSURE SENSOR IN DUCT
	TEMPERATURE SENSOR
	CO2 SENSOR
	HUMIDITY SENSOR
	FLOW SENSOR
	CURRENT SENSING SWITCH
	DIFFERENTIAL PRESSURE SWITCH
	VARIABLE FREQUENCY DRIVE
	STARTER
	SUPPLY DIFFUSER - TYPE, AIR QUANTITY
	SUPPLY DIFFUSER - ELEVATION
	RETURN INLET - TYPE, AIR QUANTITY
	RETURN INLET - ELEVATION
	SIDEWALL RETURN GRILLE - ELEVATION
	SIDEWALL RETURN GRILLE - PLAN
	EXHAUST INLET - TYPE, AIR QUANTITY
	EXHAUST/RETURN INLET - ELEVATION
	DEMOLISH

HVAC PIPING LEGEND	
	HIGH PRESSURE STEAM (REFER TO PLANS FOR PIPE SIZE)
	HIGH PRESSURE CONDENSATE RETURN (REFER TO PLANS FOR PIPE SIZE)
	LOW PRESSURE STEAM (REFER TO PLANS FOR PIPE SIZE)
	LOW PRESSURE CONDENSATE RETURN (REFER TO PLANS FOR PIPE SIZE)
	STEAM VENT (REFER TO PLANS FOR PIPE SIZE)
	SAFETY RELIEF VALVE VENT (REFER TO PLANS FOR PIPE SIZE)
	CONDENSATE PUMP DISCHARGE (REFER TO PLANS FOR PIPE SIZE)
	FEEDWATER (REFER TO PLANS FOR PIPE SIZE)
	CHILLED WATER SUPPLY (REFER TO PLANS FOR PIPE SIZE)
	CHILLED WATER RETURN (REFER TO PLANS FOR PIPE SIZE)
	HOT WATER SUPPLY (REFER TO PLANS FOR PIPE SIZE)
	HOT WATER RETURN (REFER TO PLANS FOR PIPE SIZE)
	CONDENSER WATER SUPPLY (REFER TO PLANS FOR PIPE SIZE)
	CONDENSER WATER RETURN (REFER TO PLANS FOR PIPE SIZE)
	DOMESTIC COLD WATER (REFER TO PLANS FOR PIPE SIZE)
	SOFT WATER (REFER TO PLANS FOR PIPE SIZE)
	HOT WATER EXPANSION TANK PIPE (REFER TO PLANS FOR PIPE SIZE)
	CHILLED WATER EXPANSION TANK PIPE (REFER TO PLANS FOR PIPE SIZE)
	CONDENSATE DRAIN (REFER TO PLANS FOR PIPE SIZE)
	REFRIGERATE LINE (REFER TO PLANS FOR PIPE SIZE)
	GATE VALVE (SCREWED) - PLAN, END VIEW
	GATE VALVE (FLANGED) - PLAN, END VIEW
	TRIPLE OFFSET ROTARY VALVE - PLAN, END VIEW
	GLOBE VALVE (SCREWED) - PLAN, END VIEW
	GLOBE VALVE (FLANGED) - PLAN, END VIEW
	CHECK VALVE, SILENT CHECK VALVE
	CHECK VALVE
	BUTTERFLY VALVE - PLAN, END VIEW
	BUTTERFLY VALVE
	HIGH PERFORMANCE BUTTERFLY VALVE - PLAN, END VIEW
	3-WAY CONTROL VALVE, 2-WAY CONTROL VALVE
	COMB. BALANCING SHUT-OFF VALVE - PLAN, END VIEW
	0.5-2" BALANCING VALVE
	2.5-12" BALANCING VALVE
	BALL VALVE
	STEAM TRAP
	3/4" DRAIN VALVE WITH HOSE CONNECTION
	SAFETY RELIEF VALVE
	Y-TYPE STRAINER WITH DRAIN VALVE
	Y STRAINER
	FLEXIBLE CONNECTOR
	PRESSURE GAUGE
	TEMPERATURE GAUGE
	UNION
	MANUAL AIR VENT - PLAN, ELEVATION
	AUTOMATIC AIR VENT - PLAN, ELEVATION
	CONCENTRIC REDUCER - PLAN, ELEVATION
	ECCENTRIC REDUCER - PLAN, ELEVATION
	FLANGED CONNECTION
	NEEDLE VALVE IN GAUGE LINE
	FLOW METER
	FLOW SWITCH
	TEMPERATURE SENSOR
	PRESSURE SWITCH
	DIFFERENTIAL PRESSURE SWITCH
	BTU METER

## ELECTRICAL LEGEND

EQUIPMENT, CONDUITS, ETC.	
	PANELBOARD OR TERMINAL CABINET (REFER TO PLANS AND RISER FOR SIZE)
	JUNCTION BOX
	DISCONNECT SWITCH
	FUSED DISCONNECT
	COMBINATION MAGNETIC STARTER AND FUSED SWITCH
	MOTOR
	WIRE / CONDUIT
	BOTTOM OF DEVICE (IN INCHES A.F.F.)
	SEE NOTE 1 THIS SHEET
	GROUND
RECEPTACLES (BOTTOM 16" A.F.F.) (EXCEPT AS NOTED OTHERWISE)	
	DUPLEX CONVENIENCE OUTLET
	QUADRAPLEX CONVENIENCE OUTLET
	GROUND FAULT INTERRUPTING OUTLET
	EQUIPMENT CONNECTION
WALL SWITCHES (BOTTOM 44" A.F.F.) (EXCEPT AS NOTED OTHERWISE)	
	SINGLE POLE
	OCCUPANCY/VACANCY SENSOR SWITCH

ELECTRICAL ABBREVIATIONS	
AFF	ABOVE FINISHED FLOOR
C	CONDUIT
GFI	GROUND FAULT INTERRUPTER
JB	JUNCTION BOX
W	WIRE
F	FLUSH
P	PEDESTAL
CKT	CIRCUIT
REC(S)	RECEPTACLE(S)
AIC	AMPERE INTERRUPTING CAPACITY
UON	UNLESS OTHERWISE NOTED
WP	WEATHER PROOF

### ELECTRICAL DEMOLITION GENERAL NOTES:

- ALL ITEMS SHOWN AS DASHED TO BE DEMOLISHED, INCLUDING ALL CONDUIT, WIRE, JUNCTION BOXES, ETC. REMOVE WIRING COMPLETE BACK TO PANEL. EXISTING BREAKER IN PANEL TO REMAIN UNLESS OTHERWISE NOTED. EXISTING BOXES IN EXISTING BLOCK WALLS SHALL BE PROVIDED WITH A BLANK COVER PLATE. EXISTING CONDUIT IN BLOCK WALLS TO REMAIN AND CAPPED. CONDUIT ABOVE CEILING SHALL BE REMOVED COMPLETE BACK TO PANEL.
- BEFORE START OF WORK, THE CONTRACTOR SHALL CHECK ALL EXISTING DEVICES AND EQUIPMENT THAT IS NOTED OR REQUIRED TO BE REUSED TO SATISFY THEMSELVES THAT THEY ARE OPERATING PROPERLY. SHOULD ANY OF THE ITEMS NOT BE OPERATING, THE CONTRACTOR SHALL REPORT SAME TO THE ENGINEER AND AWAIT DIRECTIONS. CONTRACTORS NOT COMPLYING WITH THE ABOVE WILL BE RESPONSIBLE FOR PROVIDING OPERATIONAL ITEMS AT HIS EXPENSE.
- IN EXISTING AREAS WHERE NEW WORK IS SHOWN, REMOVE ALL EXISTING EXPOSED CONDUITS, SURFACE AND FLUSH OUTLET BOXES, ETC., NOT REQUIRED FOR NEW ARRANGEMENT.
- INSTALL ALL NEW WORK AS INDICATED. FLUSH OUTLET BOXES MAY BE REUSED IF AT PROPER HEIGHT, LOCATION AND IN GOOD CONDITION. EXISTING CONCEALED CONDUITS MAY BE REUSED IF IN GOOD CONDITION. CIRCUITRY SHOWN ON PLANS SHALL GOVERN. ALL OTHER MATERIALS REMOVED SHALL BE REMOVED FROM THE JOB SITE OR TURNED OVER TO THE OWNER.
- MAINTAIN AND RESTORE, IF INTERRUPTED BY REMOVALS OR IN PATH OF NEW CONSTRUCTION, ALL CIRCUITS, CONDUITS AND FEEDERS PASSING THROUGH AND SERVING UNDISTURBED AREAS (SHOWN OR NOT SHOWN).
- WHERE ANY EXISTING OUTLET (ELECTRIC, COMMUNICATION, ETC.) IS NOTED OR REQUIRED TO BE REMOVED, THE CONTRACTOR UNDER THIS DIVISION SHALL CONNECT CONDUIT, PULL IN NEW CONDUCTORS AND RECONNECT AS REQUIRED FOR FEED-THRU OF CIRCUITS TO ENSURE ALL CIRCUITS DOWNSTREAM FROM REMOVED OUTLETS WILL REMAIN OPERATIONAL.
- IN GENERAL, REMOVE EXISTING WORK INDICATED. THE DRAWINGS SHOW EXISTING WORK TO THE EXTENT POSSIBLE. HOWEVER, ALL EXISTING WORK MAY NOT BE SHOWN ON THE DRAWINGS. REMOVE OR RELOCATE EXISTING MECHANICAL AND ELECTRICAL WORK THAT INTERFERES WITH NEW WORK EVEN IF IT IS NOT SHOWN ON THE DRAWINGS. RELOCATE EXISTING WORK THAT MUST REMAIN IN SERVICE THAT INTERFERES WITH NEW WORK EVEN IF IT IS NOT SHOWN ON THE DRAWINGS. TURN OVER TO OWNER REMOVED EXISTING EQUIPMENT AS INDICATED AND REMOVE OTHER REMOVED EXISTING WORK FROM PROJECT SITE.
- IT IS THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR TO REPAIR ANY HOLES LEFT IN THE EXISTING BUILDING FLOORS, WALLS, OR CEILINGS DUE TO THE DEMOLITION OF THE EXISTING ELECTRICAL SYSTEM.
- ELECTRICAL CONTRACTOR SHALL REMOVE ALL ELECTRICAL CONNECTIONS TO EQUIPMENT TO BE REMOVED. EXISTING EXPOSED CIRCUITS NOT TO BE REUSED SHALL BE REMOVED. EXISTING CONCEALED CIRCUITS NOT TO BE REUSED SHALL BE ABANDONED AFTER CONDUCTORS ARE REMOVED. CONDUITS EXPOSED BY CONSTRUCTION SHALL BE REMOVED.
- ALL EXISTING ELECTRICAL CONNECTIONS AND DEVICES NOT SPECIFICALLY INDICATED TO REMAIN AND NOT REQUIRED FOR THE NEW ARRANGEMENT SHALL BE REMOVED UNLESS OTHERWISE NOTED. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO SURVEY THE SITE TO DETERMINE THE TOTAL SCOPE OF THE WORK.
- IN RENOVATED AREAS OF EXISTING BUILDING, EXISTING CONDUIT IS SHOWN AS OBTAINED FROM ORIGINAL BUILDING DRAWINGS FOR BID PURPOSES ONLY. CONTRACTOR SHALL VERIFY EXACT ROUTING AND LOCATION FOR RECONNECTING CIRCUITS AS SHOWN OR REQUIRED TO WORK WITH NEW SYSTEM.

### ELECTRICAL GENERAL NOTES

- PROVIDE SUPPORTS FOR ALL VERTICAL CONDUIT RUNS IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE.
- ELECTRICAL CONTRACTOR SHALL INSTALL ALL ELECTRICAL EQUIPMENT IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE.
- ALL CONDUIT SHALL BE CONCEALED IN EXISTING AND NEW WALLS AND CEILINGS EXCEPT MECHANICAL ROOMS. REFER TO SPECIFICATIONS.
- ELECTRICAL CONTRACTOR SHALL LOCATE ALL ELECTRICAL EQUIPMENT AS REQUIRED TO INSURE MINIMUM CLEARANCES ARE PROVIDED IN ACCORDANCE WITH THE N.E.C.
- ALL SCHEMATICS ARE FOR BID PURPOSES ONLY. SYSTEMS SHALL BE INSTALLED IN ACCORDANCE WITH WIRING DIAGRAMS OBTAINED FROM THE MANUFACTURER.
- ALL DEVICES SHALL BE LOCATED ON CLEAR WALL SPACES. CLEAR OF ALL SHELVING, CHALKBOARDS, TACKBOARDS, CASEWORK, ETC. OUTLETS NOT COMPLYING WITH THE ABOVE SHALL BE RELOCATED AT THE CONTRACTOR'S EXPENSE.
- ROUGH-IN FOR EQUIPMENT SHALL BE DONE IN ACCORDANCE WITH APPROVED SHOP DRAWINGS.
- THE CONTRACTOR SHALL PROVIDE EQUIPMENT GROUNDING CONDUCTORS IN ALL FEEDERS TO GROUND BUS IN PANELBOARDS AND IN ALL CIRCUITS TO EQUIPMENT AND RECEPTACLES. SEE SPECIFICATIONS.
- LIQUIDTITE FLEXIBLE METAL CONDUIT (LFMC) SHALL BE USED FOR FIXTURE WHIPS TO MOTORS. FLEXIBLE CONDUIT TO MOTORS SHALL BE A MINIMUM OF 3/4" AND SHALL NOT EXCEED 24" IN LENGTH.
- ALL ELECTRICAL OUTLETS WITHIN 6'-0" OF A WATER SOURCE SHALL BE OF THE GFI TYPE.

### NOTE:

THE SYMBOLS LISTED ON THIS SHEET MAY NOT ALL BE USED ON THIS SET OF CONTRACT DRAWINGS, HOWEVER, WHEREVER A SYMBOL IS USED THE ITEM SHALL BE FURNISHED AND INSTALLED.

### HVAC GENERAL NOTES:

- DUCTWORK AND PIPING IN ROOMS WITH SUSPENDED CEILINGS SHALL BE ABOVE CEILING EXCEPT IN EQUIPMENT ROOMS.
- INSTALL AIR VENTS AT HIGH POINTS IN PIPING AND DRAINS IN LOW POINTS.
- LOCATIONS OF PIPING, DUCT, AND EQUIPMENT ARE APPROXIMATE AND SUBJECT TO MINOR ADJUSTMENTS IN THE FIELD. DO NOT SCALE THE DRAWINGS.
- ALL OFFSETS IN DUCTS AND PIPING ARE NOT NECESSARILY SHOWN. PROVIDE ADDITIONAL OFFSETS WHERE NECESSARY.
- ALL INCREASERS AND REDUCERS IN PIPING SYSTEM ARE NOT NECESSARILY SHOWN. PROVIDE ADDITIONAL INCREASERS AND REDUCERS WHERE REQUIRED.
- COORDINATE WITH PLUMBING, SHEET METAL, FIRE PROTECTION, AND ELECTRICAL CONTRACTORS TO AVOID INTERFERENCE WITH PIPING, DUCTS, AND CONDUIT.
- INSTALL ALL PIPING, DUCTWORK, AND EQUIPMENT IN STRICT ACCORDANCE WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS.
- SEAL AIRTIGHT AROUND ALL DUCT AND PIPING PENETRATIONS THROUGH WALLS AND FLOORS.
- SEAL ALL DUCTWORK WITH DUCT SEALANT AND/OR DUCT CEMENT IN ACCORDANCE WITH SPECIFICATIONS SECTION "METAL DUCTWORK."
- DIMENSIONS FOR DUCTS ARE INSIDE DIMENSIONS.
- SEE ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT LOCATIONS OF GRILLES AND DIFFUSERS IN CEILINGS.
- DO NOT RUN ANY PIPING OR DUCTWORK OVER ANY ELECTRICAL OR ELEVATOR EQUIPMENT.
- INSTALL ACCESS DOOR IN DUCT ADJACENT TO EACH MOTOR OPERATED DAMPER.
- ROLL FITTINGS IN ROUND DUCT AS REQUIRED FOR PROPER CONNECTIONS TO BRANCH DUCTS.
- WHERE SIZE OF DUCT PENETRATING A FIRE WALL OR PARTITION IS LESS THAN THE MINIMUM SIZE OF FACTORY-MADE FIRE DAMPER OR DUCT ACCESS DOOR, PROVIDE THE MINIMUM SIZE FACTORY MADE DAMPER AND/OR ACCESS DOOR AVAILABLE. INCREASE DUCT SIZE AS REQUIRED TO ACCOMMODATE TRANSITIONS UPSTREAM AND DOWN STREAM OF SIZE INCREASE.
- ALL TRANSITIONS IN DUCTWORK ARE NOT NECESSARILY SHOWN. PROVIDE ADDITIONAL TRANSITIONS WHERE REQUIRED.
- FIELD VERIFY EXISTING CONDITIONS AND ALL REQUIRED MEASUREMENTS BEFORE FABRICATING ANY PIPING, DUCTWORK, OR EQUIPMENT.
- INSTALL CONTROL DEVICES (SUCH AS SENSORS, SENSING WELLS, VALVES, DAMPERS, ETC.), IN DUCT AND PIPING SYSTEMS.
- PROVIDE SEISMIC BRACING FOR PIPING, DUCTWORK, AND EQUIPMENT AS REQUIRED BY KENTUCKY BUILDING CODE. SEE SPECIFICATIONS.

### HVAC GENERAL NOTES: DEMOLITION

- DISCONNECT, DEMOLISH, AND REMOVE EXISTING HVAC SYSTEMS, EQUIPMENT, AND COMPONENTS INDICATED TO BE REMOVED.
- PIPING TO BE REMOVED: REMOVE PORTION OF PIPING INDICATED TO BE REMOVED AND CAP OR PLUG REMAINING PIPING WITH SAME OR COMPATIBLE PIPING MATERIAL.
- PIPING TO BE ABANDONED IN PLACE: DRAIN PIPING AND CAP OR PLUG PIPING WITH SAME OR COMPATIBLE PIPING MATERIAL.
- DUCTS TO BE REMOVED: REMOVE PORTION OF DUCTS INDICATED TO BE REMOVED AND PLUG REMAINING DUCTS WITH SAME OR COMPATIBLE DUCTWORK MATERIAL.
- DUCTS TO BE ABANDONED IN PLACE: CAP OR PLUG DUCTS WITH SAME OR COMPATIBLE DUCTWORK MATERIAL.
- EQUIPMENT TO BE REMOVED: DISCONNECT AND CAP SERVICES AND REMOVE EQUIPMENT.
- EQUIPMENT TO BE REMOVED AND REINSTALLED: DISCONNECT AND CAP SERVICES AND REMOVE. CLEAN AND STORE EQUIPMENT; WHEN APPROPRIATE, REINSTALL, RECONNECT AND MAKE EQUIPMENT OPERATIONAL.
- EQUIPMENT TO BE REMOVED AND SALVAGED: DISCONNECT AND CAP SERVICES AND COMPLY WITH THE FOLLOWING:
  - CLEAN SALVAGED ITEMS OF DIRT AND DEMOLITION DEBRIS.
  - PACK OR CRATE ITEMS AFTER CLEANING. IDENTIFY CONTENTS OF CONTAINERS.
  - STORE ITEMS IN A SECURE AREA UNTIL DELIVERY TO OWNER.
  - TRANSPORT ITEMS TO STORAGE AREA DESIGNATED BY OWNER.
  - PROTECT ITEMS FROM DAMAGE DURING TRANSPORT AND STORAGE.
  - SALVAGE TECH FOLLOWING ITEMS:
    - OPERATING LIGHT-TURN OVER TO OWNER.
    - HUMIDISTATE-RELOCATED PER NEW WORK PLAN.
- ALL OTHER EXISTING HVAC WORK (SUCH AS PIPING, DUCTWORK, VALVES, ETC.) SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED FROM THE JOB SITE.
- IF PIPE, INSULATION, OR EQUIPMENT TO REMAIN IS DAMAGED IN APPEARANCE OR IS UNSERVICEABLE, REMOVE DAMAGED OR UNSERVICEABLE PORTIONS AND REPLACE WITH NEW PRODUCTS OF EQUAL CAPACITY AND QUALITY.
- REMOVE OR RELOCATE EXISTING HVAC WORK THAT INTERFERES WITH NEW WORK OF ANY KIND.
- THE DRAWINGS SHOW EXISTING WORK TO THE EXTENT POSSIBLE. HOWEVER, ALL EXISTING WORK MAY NOT BE SHOWN. REMOVE OR RELOCATE ANY EXISTING WORK THAT INTERFERES WITH THAT INTERFERES WITH NEW WORK EVEN IF IT IS NOT SHOWN ON THE DRAWINGS.
- REMOVE EXISTING WORK THAT DOES NOT HAVE TO REMAIN IN SERVICE. RELOCATE EXISTING WORK THAT HAS TO REMAIN IN SERVICE, AS REQUIRED TO AVOID INTERFERENCE WITH NEW WORK.
- REMOVE OR RELOCATE EXISTING ELECTRICAL WORK THAT INTERFERES WITH NEW HVAC WORK. IF SUCH WORK IS NOT INDICATED TO BE REMOVED OR RELOCATED ON THE ELECTRICAL DRAWINGS, REMOVE WORK THAT DOES NOT HAVE TO REMAIN IN SERVICE. RELOCATE WORK THAT HAS TO REMAIN IN SERVICE, AS REQUIRED TO AVOID INTERFERENCE WITH NEW WORK.



MECH / ELEC LEGEND AND GENERAL NOTES

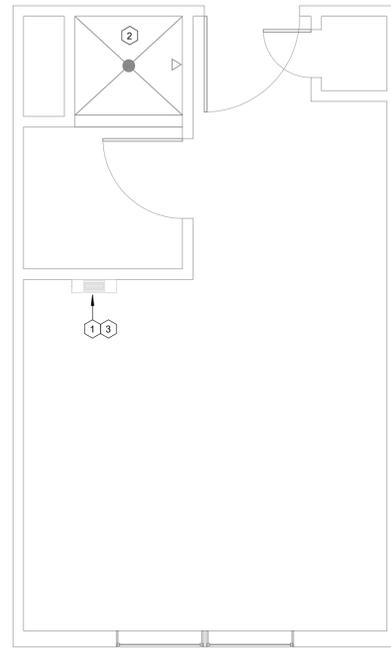
NORSE COMMONS/HALL MECH. RENOVATION

REVISIONS		
#	DESCRIPTION	DATE

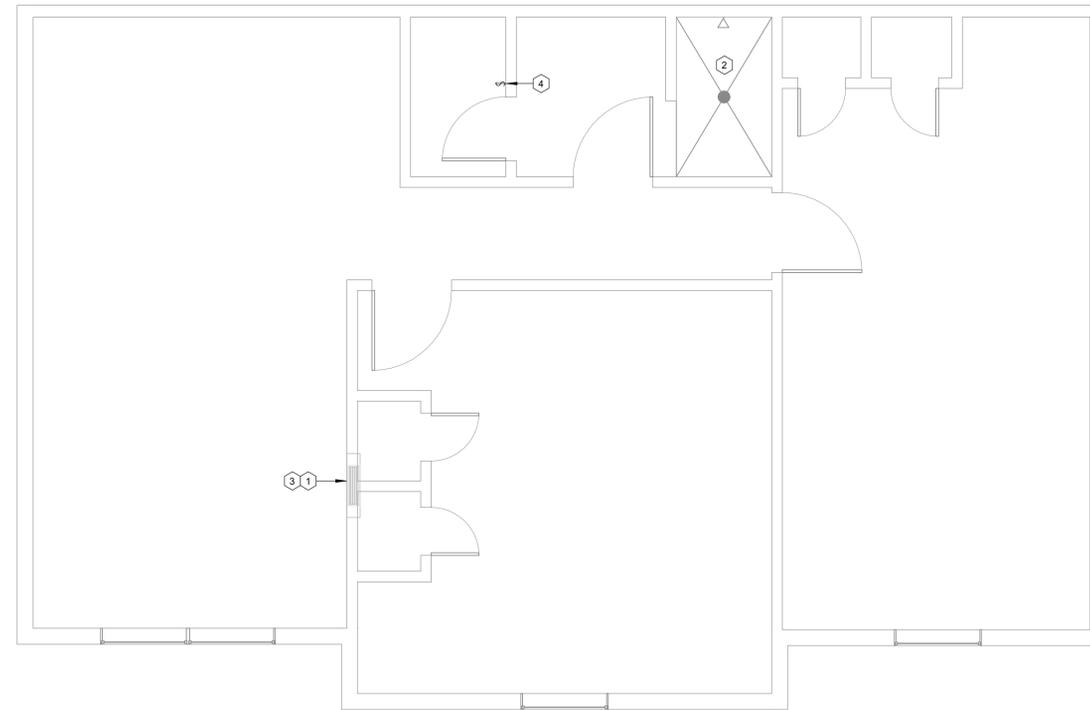
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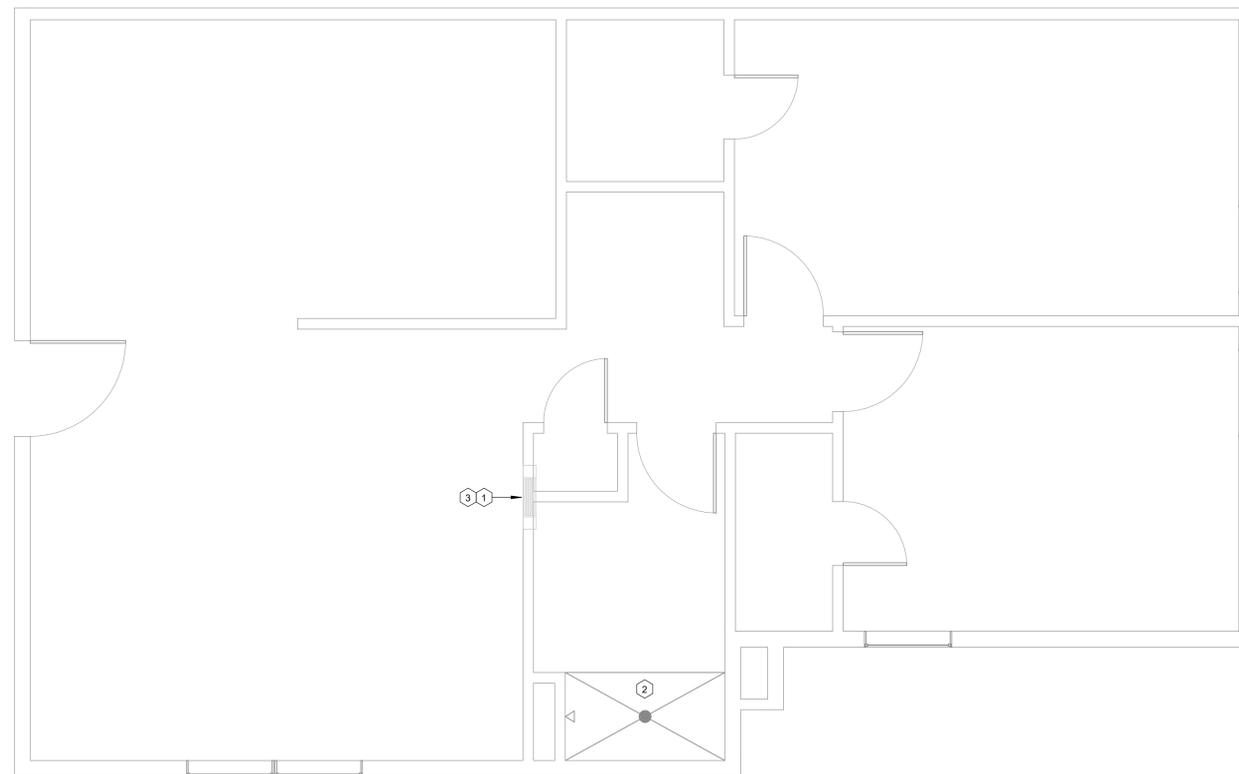
NOTE: IT IS NOT INTENDED THAT THE PLANS SHOW ALL OFFSETS IN PIPES, CONDUITS, AND DUCTS REQUIRED FOR INSTALLATION OF THE WORK. DETAILS AND SECTIONS ARE INCLUDED FOR SOME AREAS TO SHOW INTENDED RELATIONSHIP OF THE WORK OF VARIOUS TRADES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND SUB-CONTRACTORS TO COORDINATE INSTALLATION OF THE WORK AND TO PROVIDE THE NECESSARY OFFSETS, TRANSFORMATIONS, AND FITTINGS REQUIRED. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR CORRECTION CONFLICTS BETWEEN THE WORK OF VARIOUS TRADES. DETAILS AND SECTIONS ARE SHOWN FOR THE CONTRACTORS CONVENIENCE AND SHALL NOT BE CONSIDERED COMPLETE IN EVERY DETAIL.



HVAC AND ELECTRICAL PLAN - 1BR TYPICAL  
 SCALE: 3/16" = 1'-0"



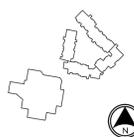
HVAC AND ELECTRICAL PLAN - 2BR TYPICAL  
 SCALE: 3/16" = 1'-0"



HVAC AND ELECTRICAL PLAN - RESIDENT DIRECTOR APARTMENT  
 SCALE: 3/16" = 1'-0"

- CODED NOTES:**
- 1 DEMOLISH EXISTING FAN COIL UNIT.
  - 2 DEMOLISH EXISTING SHOWER DOWN TO WALL STUDS AND SUBFLOOR. CEILING TO REMAIN.
  - 3 DISCONNECT ELECTRICAL CONNECTION TO EXISTING FAN COIL UNIT. EXISTING ELECTRICAL CONNECTION AND DISCONNECT SWITCH WILL BE USED TO RECONNECT NEW FAN COIL UNIT. REFER TO NEW WORK PLAN FOR ADDITIONAL INFORMATION.
  - 4 CONTRACTOR SHALL AS PART OF BASE-BID INCLUDE THE REMOVAL OF EXISTING FAN SWITCH AND PROVIDE BLANK COVER PLATE IN 45 UNITS. ADDITIONAL UNITS MAY BE ADDED FOR UNIT PRICE.

KEY PLAN

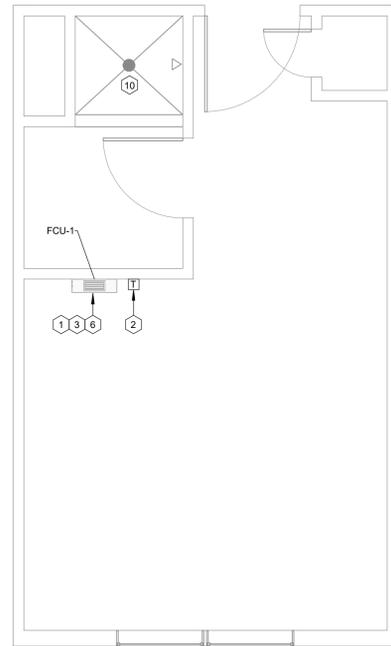


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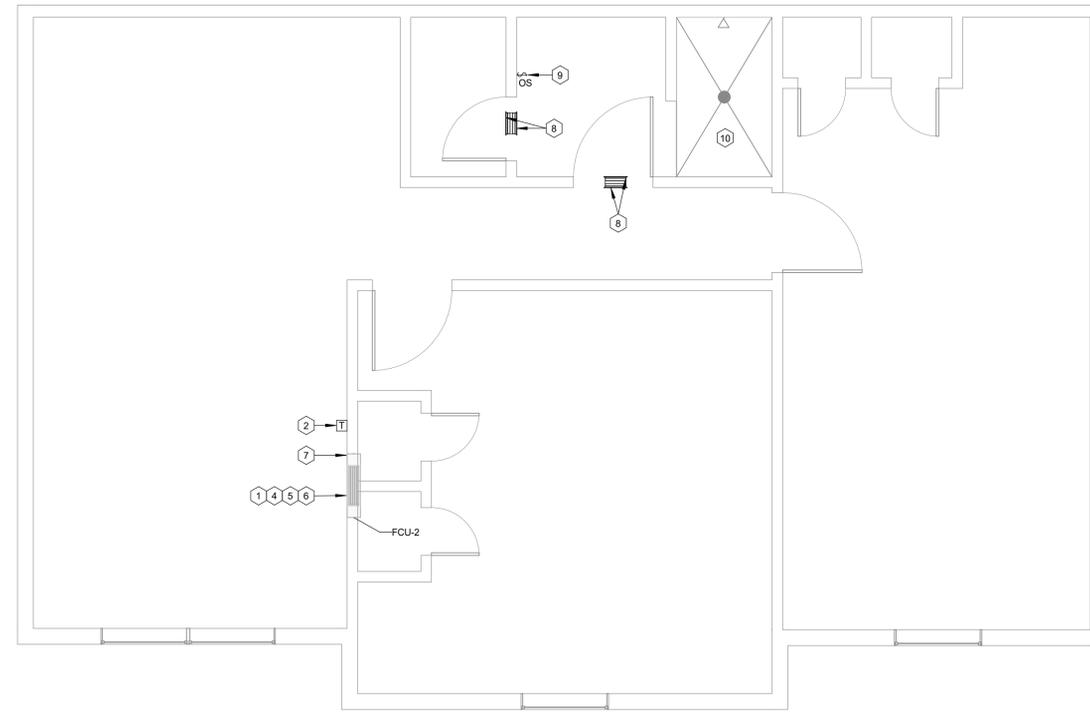
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SHEET  
**ME001**

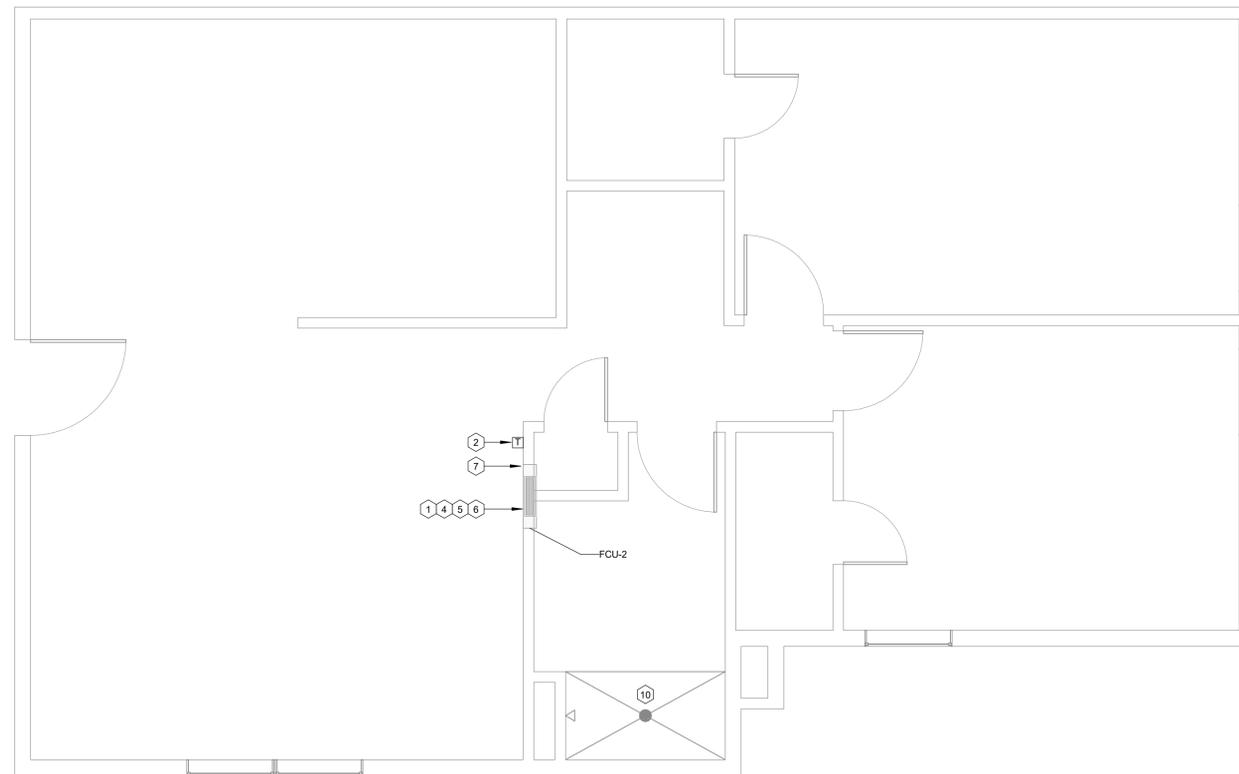
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HVAC AND ELECTRICAL PLAN - EFF. TYPE A  
SCALE: 3/16" = 1'-0"



HVAC AND ELECTRICAL PLAN - 2BR TYPICAL (TYPE B)  
SCALE: 3/16" = 1'-0"



HVAC AND ELECTRICAL PLAN - RESIDENT DIRECTOR APARTMENT (TYPE C)  
SCALE: 3/16" = 1'-0"

- CODED NOTES:**
- FAN COIL UNIT TO REPLACE EXISTING UNIT. MODIFICATIONS TO EXISTING PIPING NECESSARY TO CONNECT TO NEW UNIT SHALL BE INCLUDED IN THE PROJECT.
  - WALL MOUNTED THERMOSTAT TO BE MOUNTED AS INDICATED ADJACENT TO UNIT. SEE DETAIL FOR MOUNTING HEIGHT.
  - UNIT TO BE SURFACE MOUNTED.
  - UNIT TO BE RECESSED WITHIN WALL. PROVIDE NEW TAMPER PROOF PAINTED METAL COVER PLATE WITH BOTTOM RETURN GRILL. COORDINATE COLOR WITH OWNER.
  - TRANSITION EXISTING SUPPLY DUCTWORK AS NECESSARY TO CONNECT TO NEW UNIT.
  - DISCONNECT ELECTRICAL CONNECTION TO EXISTING FAN COIL UNIT. RECONNECT EXISTING ELECTRICAL CONNECTION AND DISCONNECT SWITCH TO NEW FAN COIL UNIT. MAKE CONNECTION AS REQUIRED.
  - PATCH, REPAIR AND PAINT DRYWALL NOT CONCEALED BY COVER PLATE.
  - CONTRACTOR SHALL AS PART OF BASE-BID INCLUDE THE INSTALLATION OF TG-1 TRANSFER GRILLES IN 45 BEDROOM UNITS. ADDITIONAL UNITS MAY BE ADDED FOR UNIT PRICE.
  - CONTRACTOR SHALL AS PART OF BASE-BID INCLUDE OCCUPANCY SENSOR FOR EXHAUST FAN CONTROL. EXTEND CIRCUITING FROM EXISTING SWITCH LOCATION TO NEW OCCUPANCY SENSOR. MAKE CONNECTION AS REQUIRED. HUBBELL LH SERIES OR EQUAL. COLOR TO MATCH EXISTING DEVICES. IN 45 BEDROOM UNITS. ADDITIONAL UNITS MAY BE ADDED FOR UNIT PRICE.
  - ALL SHOWER UNITS TO BE RENOVATED WITH THE EXCEPTION OF THE FOLLOWING PREVIOUSLY RENOVATED SHOWERS IN ROOMS: 1107, 1115, 1131, 1205, 1212, 1317, 1322, 1382, 1329. REFER TO DETAIL FOR ADDITIONAL INFORMATION.

REVISIONS		
#	DESCRIPTION	DATE

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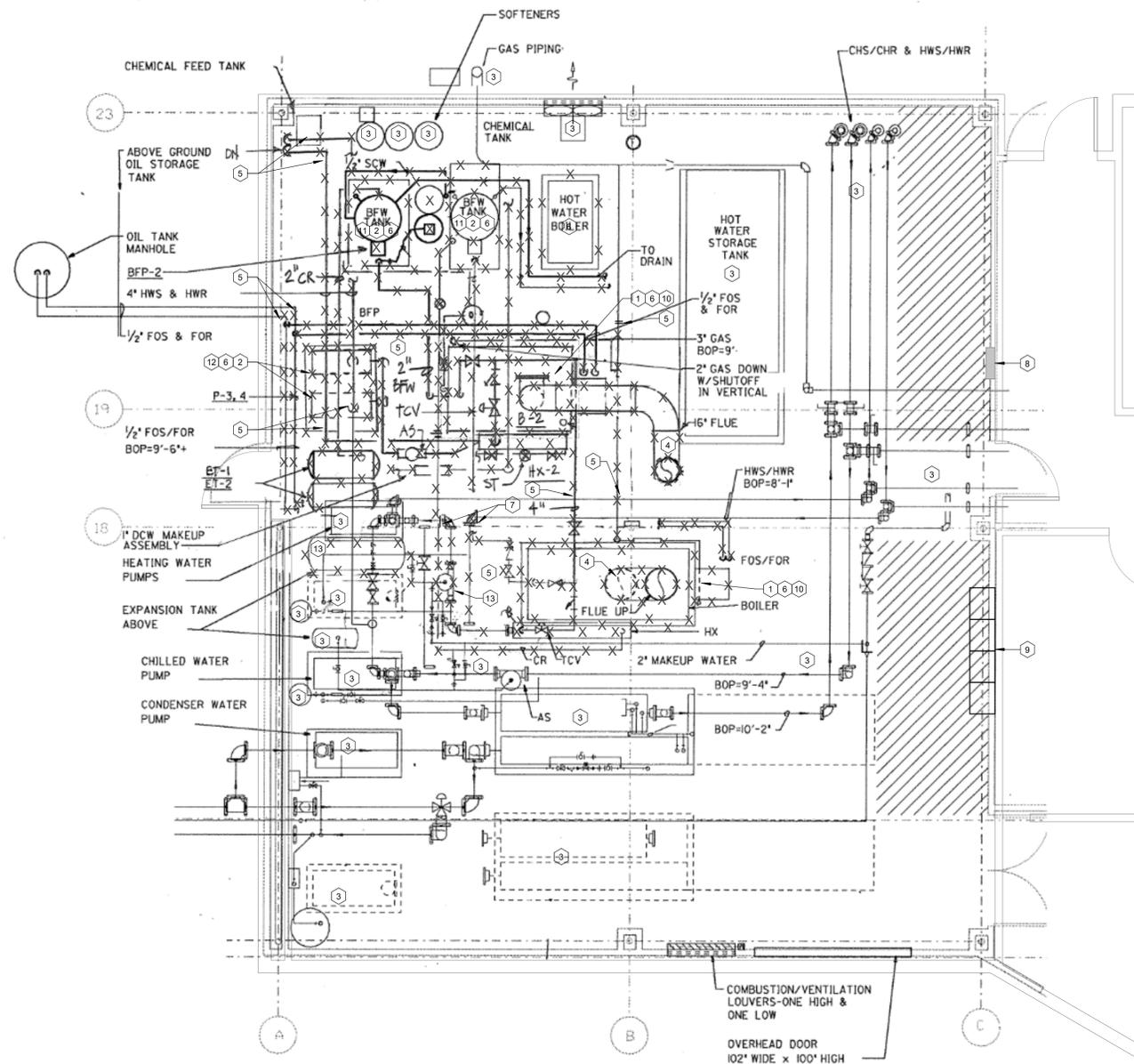
ME002



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- CODED NOTES:**
- 1 DEMOLISH AND DISPOSE OF EXISTING BOILER, ASSOCIATED PIPING, ACCESSORIES, AND CONTROLS BACK TO BAS CONTROLLER.
  - 2 DEMOLISH AND DISPOSE OF ABANDONED EQUIPMENT
  - 3 EXISTING TO REMAIN.
  - 4 DEMOLISH EXISTING BOILER FLUE, CAP AND SEAL ABANDONED PENETRATION. CONTRACTOR TO REPAIR ROOF IN A MANNER AS TO MAINTAIN ROOF WARRANTY.
  - 5 DEMOLISH EXISTING PIPING, CAP AND SEAL ABANDONED PIPE.
  - 6 DEMOLISH EXISTING EQUIPMENT PADS, MAKE FLUSH WITH FLOOR.
  - 7 PIPING TO LOCATION AS SHOWN, TO BE RECONNECTED IN NEW WORK.
  - 8 EXISTING PANELBOARD RPP TO REMAIN.
  - 9 EXISTING MOTOR CONTROL CENTER MCC-COMMONS TO REMAIN.
  - 10 EXISTING BOILER TO BE REMOVED. DISCONNECT AND REMOVE ALL ELECTRICAL EQUIPMENT, ETC., REQUIRED FOR DEMOLITION, COMPLETE, BACK TO PANEL.
  - 11 EXISTING BOILER FEED PUMP AND TANK TO BE REMOVED. DISCONNECT AND REMOVE ALL ELECTRICAL EQUIPMENT, ETC., REQUIRED FOR DEMOLITION, COMPLETE, BACK TO PANEL.
  - 12 EXISTING PUMP TO BE REMOVED. DISCONNECT AND REMOVE ALL ELECTRICAL EQUIPMENT, ETC., REQUIRED FOR DEMOLITION, COMPLETE, BACK TO MOTOR CONTROL CENTER.
  - 13 DEMOLISH EXISTING AIR-SEPARATOR AND EXPANSION TAN. MAKEUP WATER LINE TO BE REROUTED IN NEW WORK.



**HVAC AND ELECTRICAL NORSE COMMONS - DEMO PLAN**  
SCALE: 1/4" = 1'-0"

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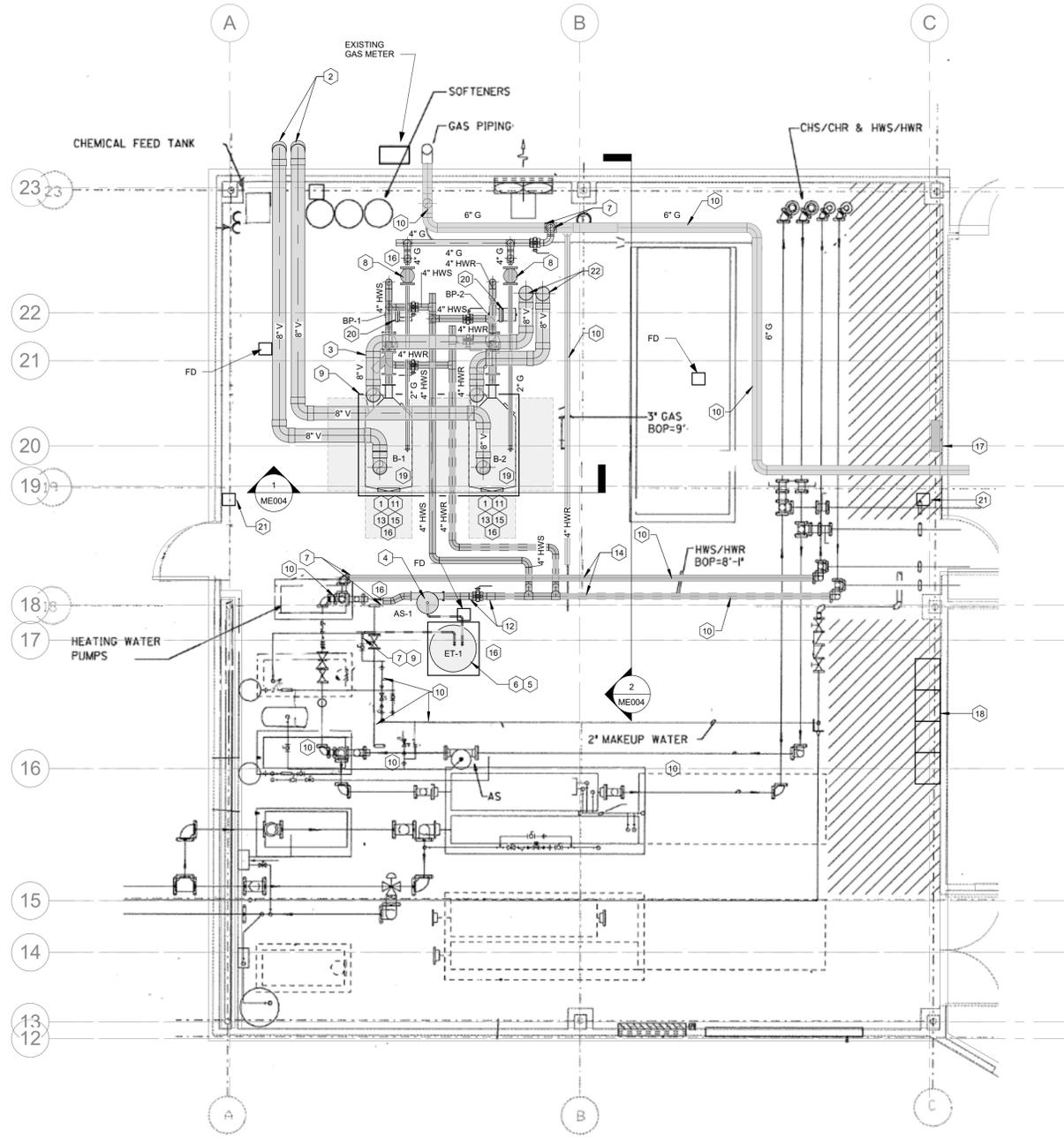
**ME003**



REVISIONS		
#	DESCRIPTION	DATE

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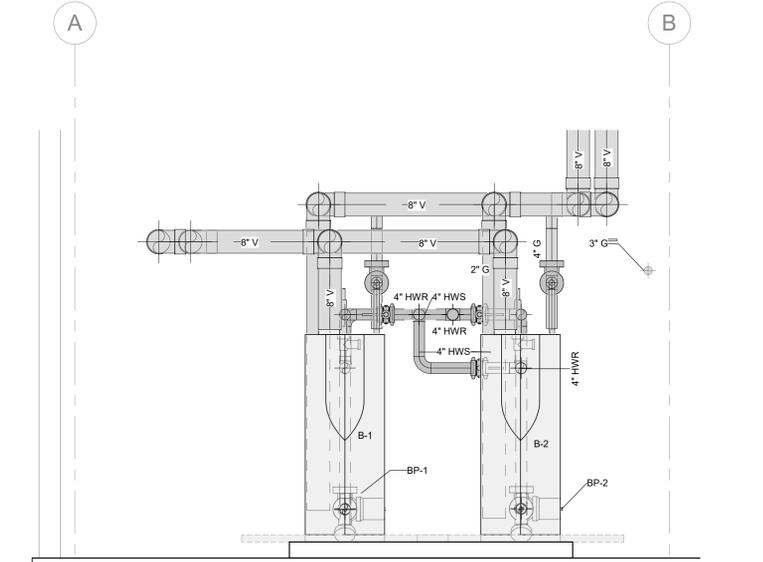
ME004



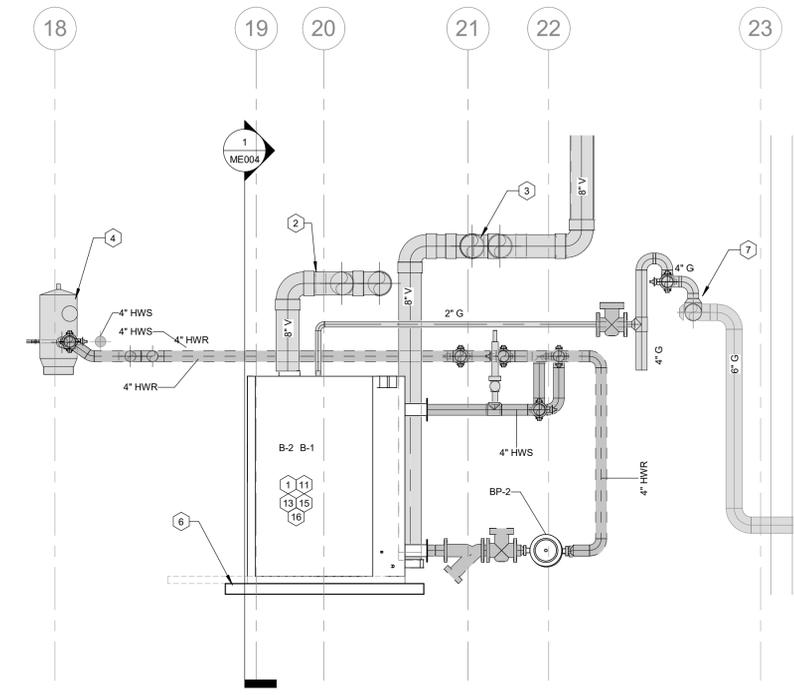
NORSE COMMONS MECHANICAL ROOM - PIPING PLAN  
SCALE: 1/4" = 1'-0"

- CODED NOTES:**
- CONDENSING BOILERS, SIZED FOR 100% REDUNDANCY. INSTALL PER MANUFACTURER'S INSTALLATION INSTRUCTIONS / RECOMMENDATIONS. INSTALL ALL ASSOCIATED CONTROL AND PROGRAMMING COMPONENTS DESCRIBED IN THE INSTALLATION INSTRUCTIONS. INSTALL DISCHARGE PIPING FROM SAFETY RELIEF VALVE TO NEAREST FLOOR DRAIN.
  - COMBUSTION INTAKE PIPING TO TERMINATE AT EXTERIOR OF THE BUILDING. PROVIDE 45 DEGREE ELBOW AND BIRDSCREEN COVER.
  - COMBUSTION VENT PIPING TO ROUTE TO THE ROOF TERMINATING PER DETAIL.
  - NEW AIR SEPARATOR, TO BE PIPED TO NEAREST FLOOR DRAIN.
  - NEW PAD MOUNTED EXPANSION TANK.
  - NEW EQUIPMENT PAD, SEE DETAIL.
  - CONNECT TO EXISTING PIPING IN THIS LOCATION.
  - NEW GAS REGULATOR TO BE PIPED TO BOILER OFF OF DRIP LEG. LOCATE +8' AWAY FROM BOILER. VENT REGULATOR AT FULL SIZE TO ROOF OF BUILDING.
  - REROUTE EXISTING DOMESTIC FILL WATER TO NEW LOCATION.
  - EXISTING PIPING.
  - PROVIDE BOILER CONDENSATE NEUTRALIZATION KIT FOR EACH BOILER. EXTEND DISCHARGE PIPING TO NEAREST FLOOR DRAIN.
  - FLUSHING TEE FOR HYDRONIC LOOP PIPING, CAP PIPE ENDS.
  - NOT ALL COMPONENTS ARE SHOWN, REFER TO FLOW DIAGRAM FOR ALL COMPONENTS TO BE INSTALLED.
  - TEMPERATURE SENSOR FOR LOOP TEMPERATURE CONTROL. TO BE INSERTED INTO EXISTING PIPING. PATCH AND REPAIR INSULATION AS NECESSARY.
  - DO NOT BLOCK MANUFACTURERS RECOMMENDED CLEARANCES. BOILERS TO BE SPACED 3' APART.
  - NOT ALL OFFSETS ARE SHOWN. COORDINATE ALL WORK WITH EXISTING CONDITIONS.
  - EXISTING PANELBOARD RPG.
  - EXISTING MOTOR CONTROL CENTER MCC-COMMONS.
  - MAKE CONNECTION TO BOILER AND BOILER CONTROL PANEL, AS REQUIRED. PROVIDE AND INSTALL DISCONNECT SWITCH AHEAD OF CONTROL PANEL. EXTEND 2#12 + 1#12 GND TO NEW 20A/1P CIRCUIT BREAKER TO BE PROVIDED IN EXISTING SPACE OF PANEL RPG.
  - MAKE CONNECTION TO IN-LINE BOILER PUMP AND ASSOCIATED VFD, AS REQUIRED. EXTEND 2#12 + 1#12 GND TO NEW 20A/1P CIRCUIT BREAKER TO BE PROVIDED IN EXISTING SPACE OF PANEL RPG.
  - CONNECT EXISTING E-STOPS TO NEW BOILERS.
  - TWO FLUE VENTS TO ROUTE TO EXISTING ROOF PENETRATION. MAXIMIZE SPACING BETWEEN VENTS. COORDINATE ROUTING ELEVATION TO AVOID EXISING CONDITINS. PITCH ALL VENT PIPING BACK TO THE BOILER.

NOTE:  
ALL SYSTEMS PROVIDED IN THE SCOPE OF THIS PROJECT SHALL BE PROVIDED SO THAT UPON COMPLETION OF THE PROJECT ALL SYSTEMS ARE OPERATING IN A MANNER AS PER DESIGN AND MANUFACTURERS REQUIREMENTS. THIS IS TO INCLUDE ALL ACCESSORIES NEEDED TO ACHIEVE.



SECTION 1  
SCALE: 3/8" = 1'-0"

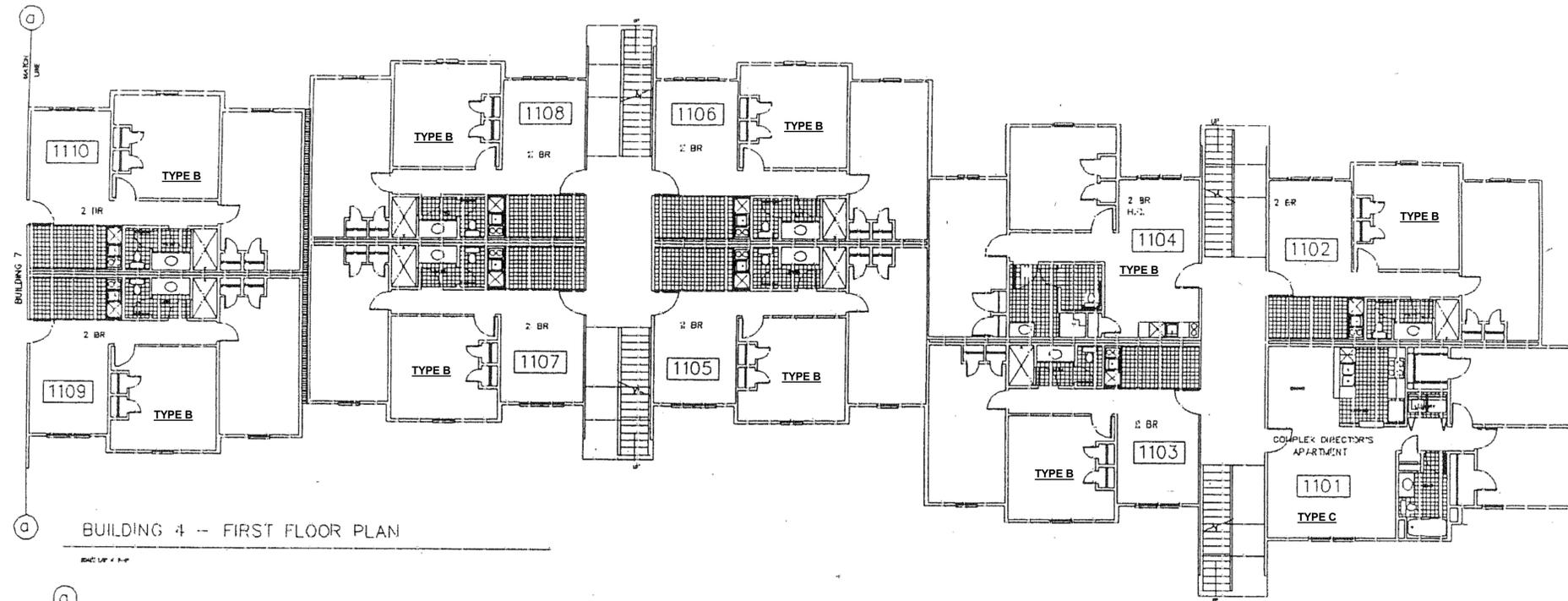


SECTION 2  
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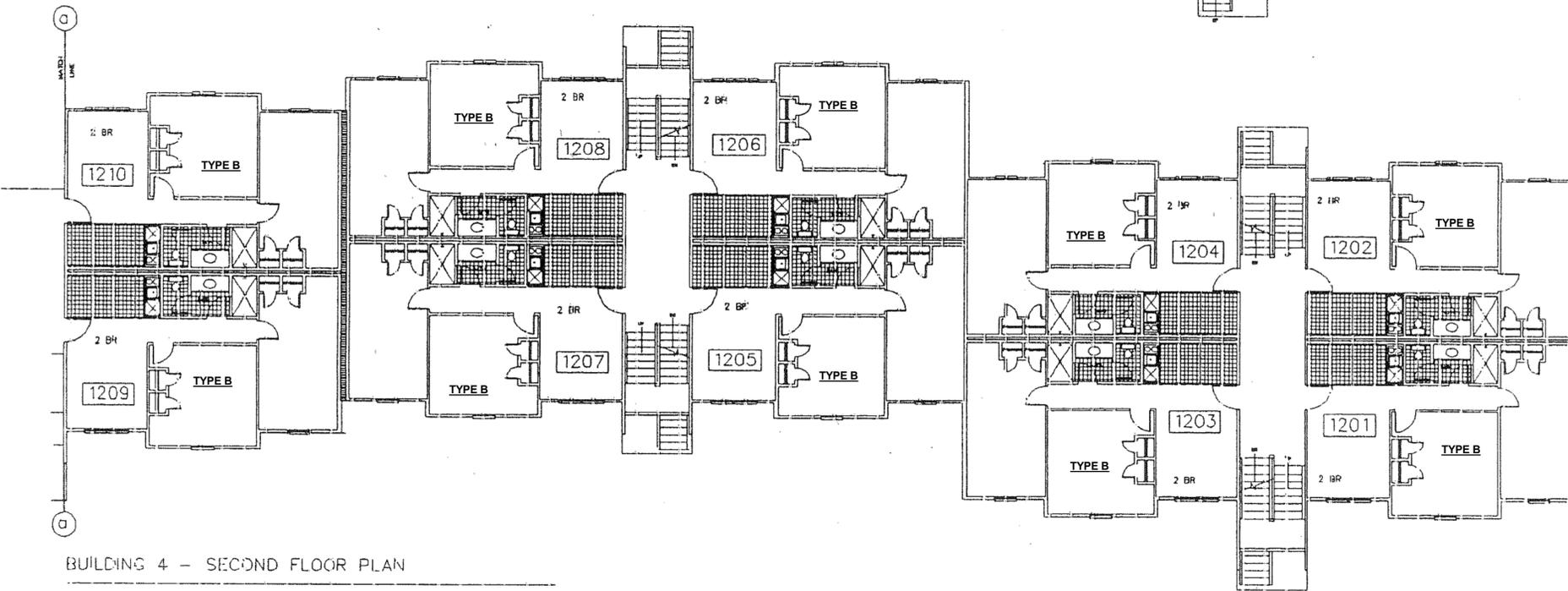


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BUILDING 4 - FIRST AND SECOND FLOOR PLANS  
 NORSE COMMONS/HALL MECH.  
 RENOVATION



BUILDING 4 -- FIRST FLOOR PLAN



BUILDING 4 -- SECOND FLOOR PLAN

Norse Hall

KEY PLAN



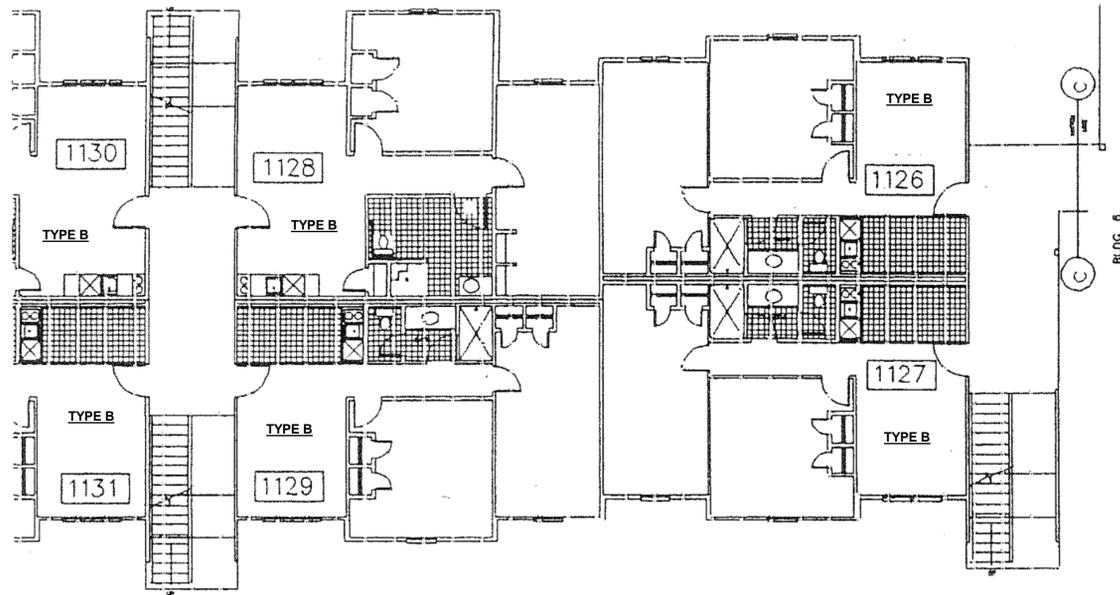
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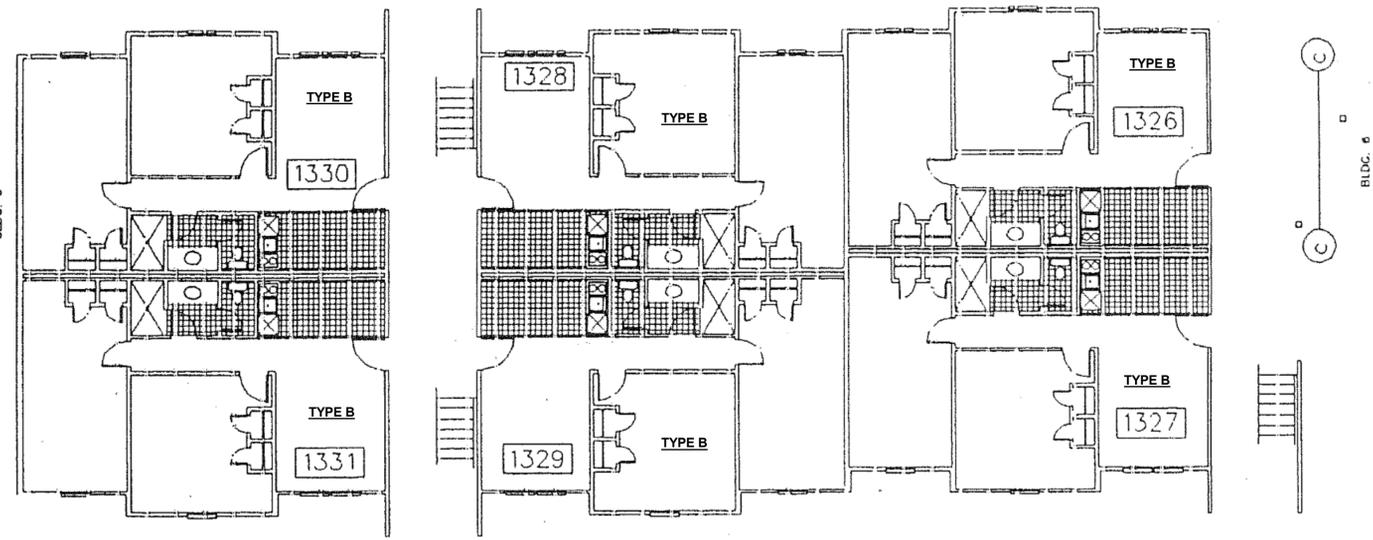
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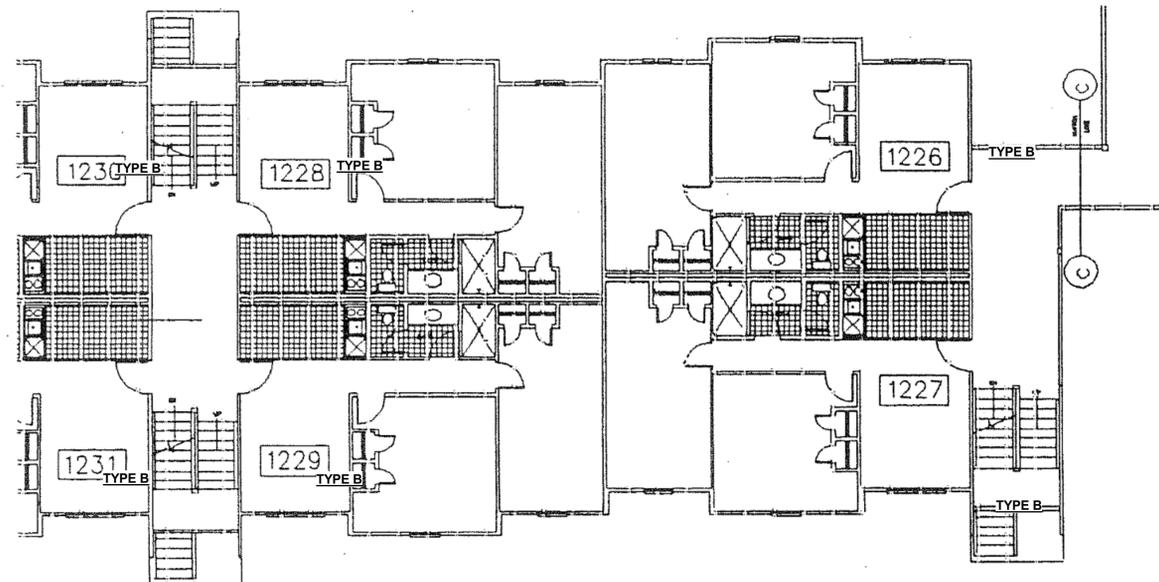




SECOND FLOOR PLAN



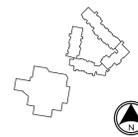
BUILDING 5 - THIRD FLOOR PLAN



FIRST FLOOR PLAN

Norse Hall

KEY PLAN



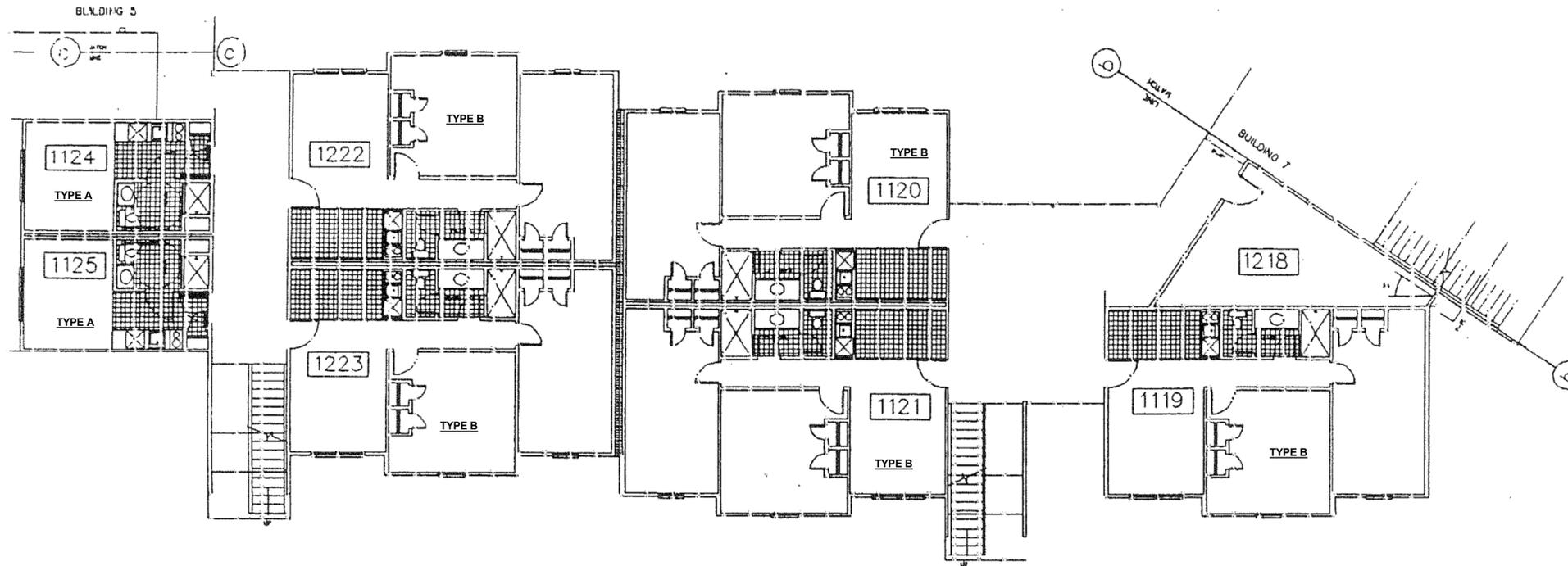
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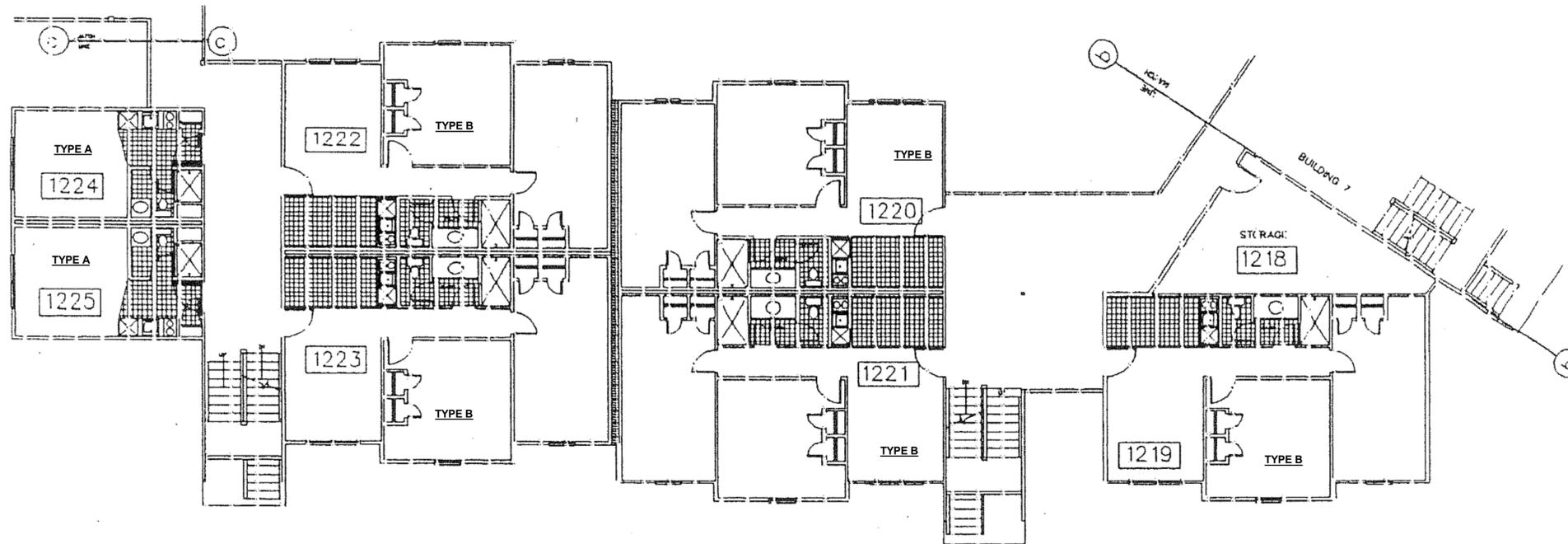
ME007

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BUILDING 6 - FIRST AND SECOND FLOOR PLANS  
 NORSE COMMONS/HALL MECH.  
 RENOVATION



BUILDING 6 - FIRST FLOOR PLAN



BUILDING 6 - SECOND FLOOR PLAN

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KEY PLAN



REVISIONS		
#	DESCRIPTION	DATE

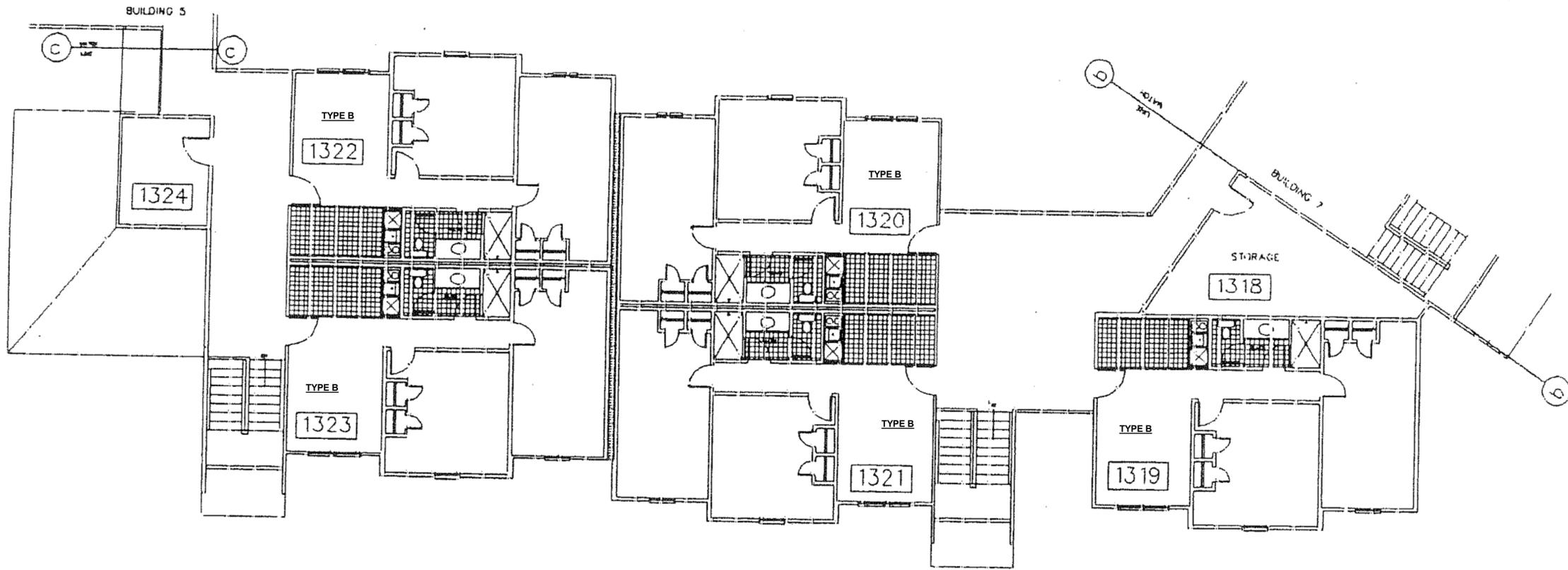
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**ME008**

BUILDING 6 - THIRD FLOOR PLAN  
NORSE COMMONS/HALL MECH.  
RENOVATION

REVISIONS		
#	DESCRIPTION	DATE

NKU # NKU-30-2021  
DATE: 03/18/2021  
SF JOB# 20536  
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**ME009**



BUILDING 6 - THIRD FLOOR PLAN

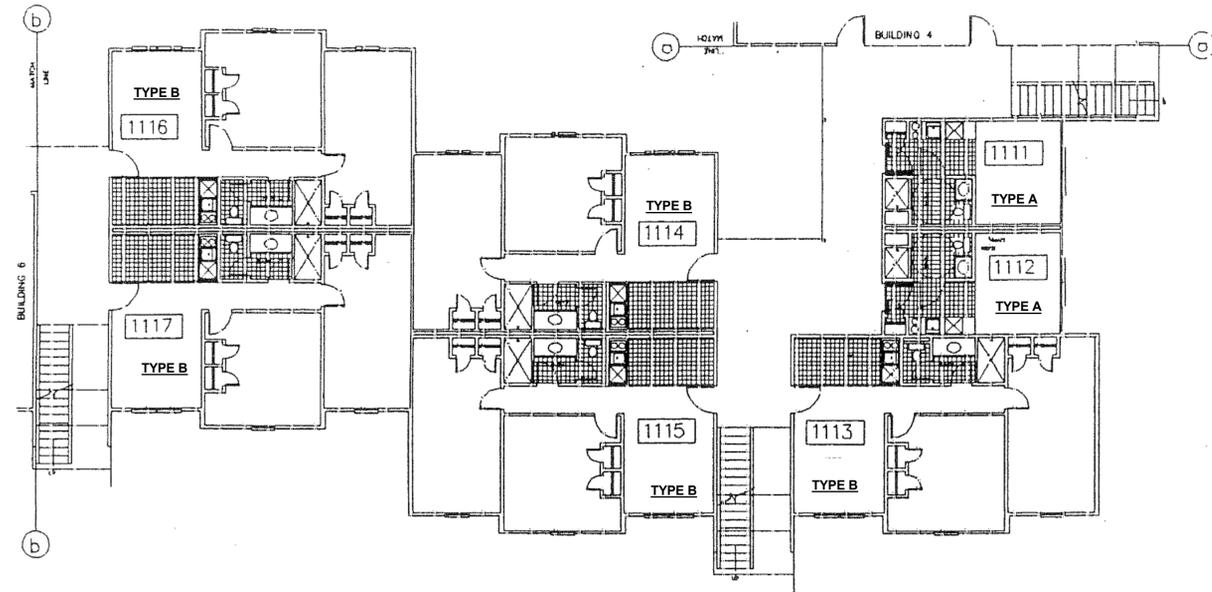
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KEY PLAN

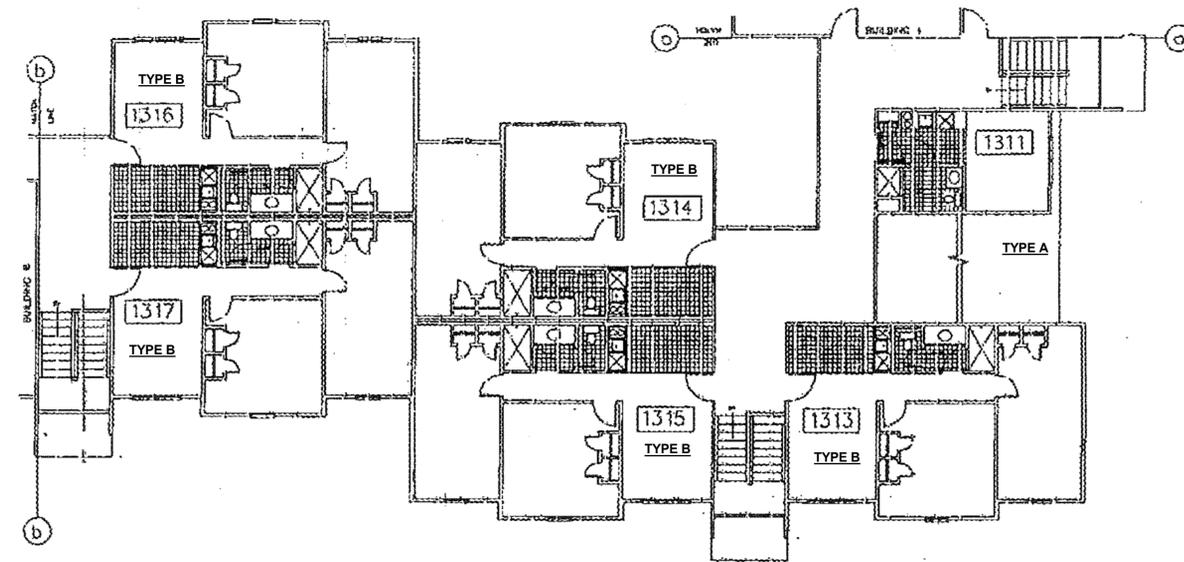


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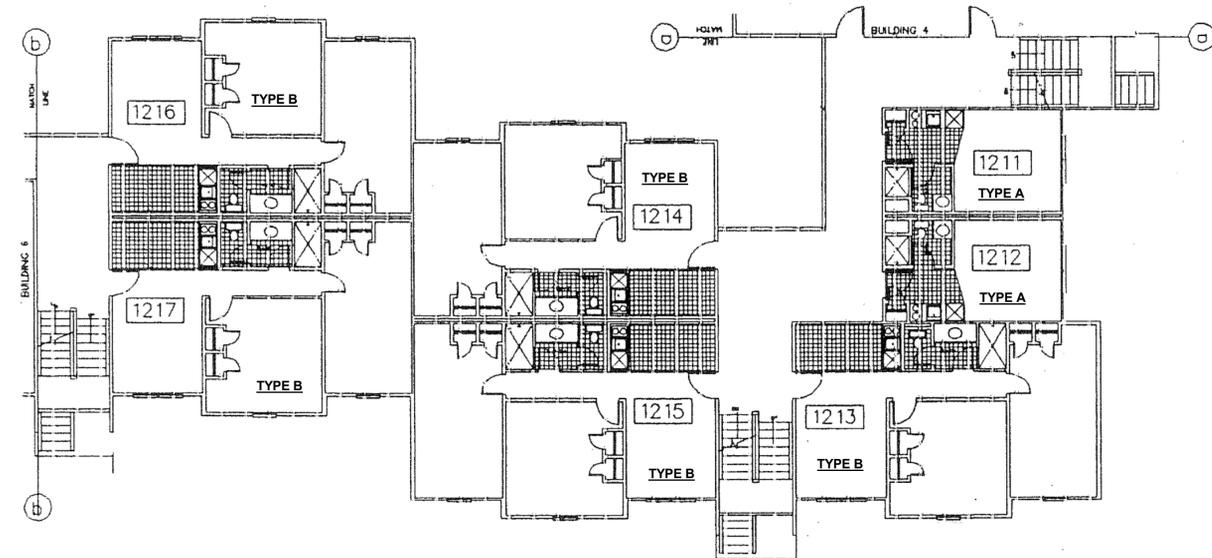
BUILDING 7 - FIRST, SECOND AND THIRD FLOOR PLANS  
NORSE COMMONS/HALL MECH.  
RENOVATION



BUILDING 7 -- FIRST FLOOR PLAN

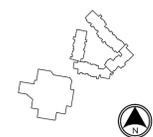


BUILDING 7 -- THIRD FLOOR PLAN



BUILDING 7 -- SECOND FLOOR PLAN

KEY PLAN



REVISIONS		
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ME110

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