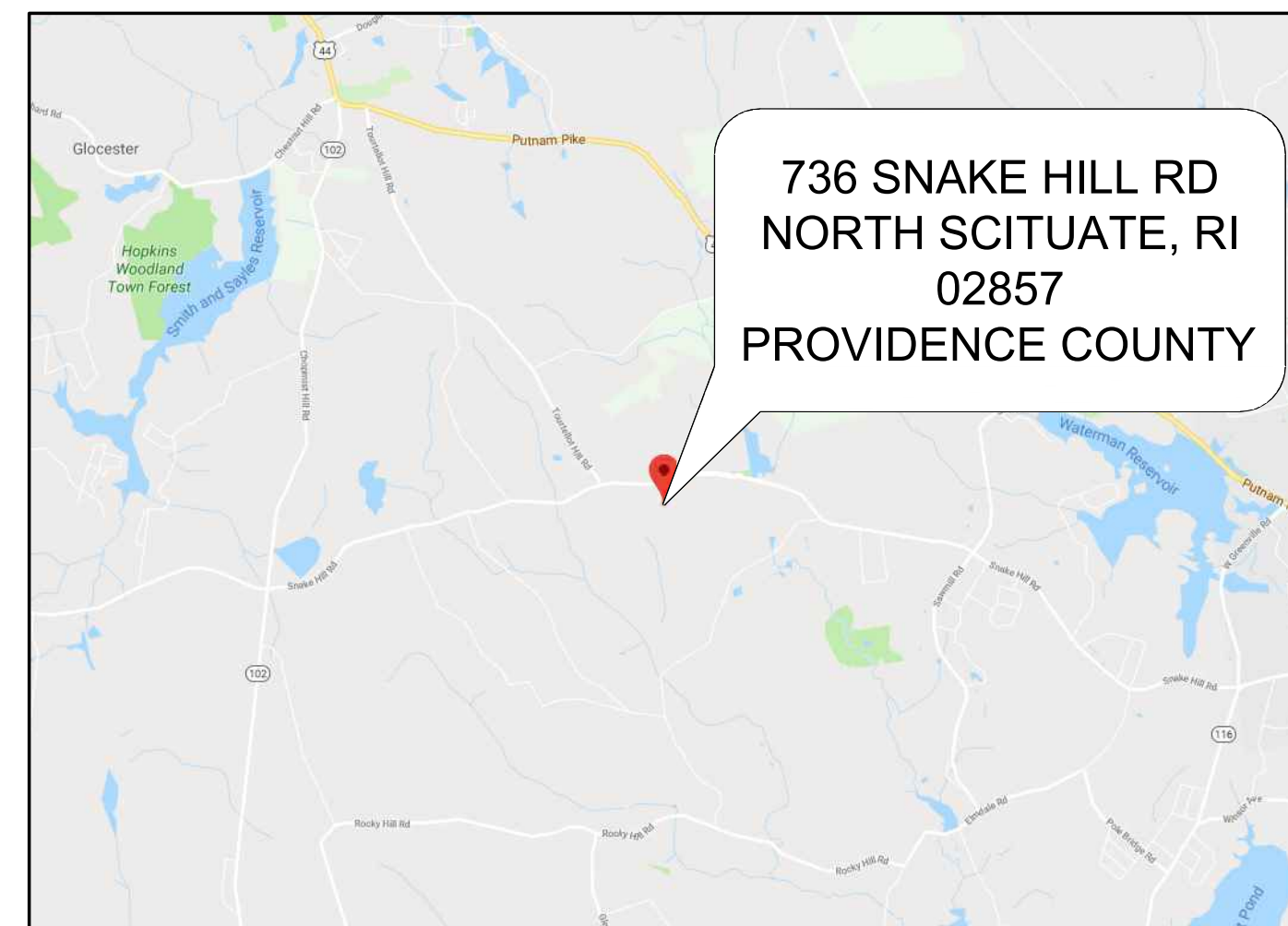


FOGARTY MEMORIAL SCHOOL BOILERS REPLACEMENT

736 SNAKE HILL ROAD
NORTH SCITUATE, RHODE ISLAND
02857
PROVIDENCE COUNTY

MARCH 23, 2023
FOR CONSTRUCTION



Project Design by:



**AHARONIAN
& ASSOCIATES INC.
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CONSULTANTS:

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MECHANICAL / PLUMBING ENGINEER
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PROVIDENCE, RI 02904

INDEX OF DRAWINGS

<u>DWG NO</u>	<u>DESCRIPTION</u>	<u>REV 1</u>
A1.1	MECHANICAL ROOM DEMO & CONST FLOOR PLANS	
M1.1	PLANS, SCHEDULES, DETAILS & NOTES MECHANICAL	



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DISCLAIMER

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REVISIONS

△ NUMBER	REMARKS	DATE

FOR CONSTRUCTION

PROJECT TITLE

Fogarty
Memorial School
ELEMENTARY SCHOOL
736 Snake Hill Road
N. Scituate, RI 02857

BOILERS REPLACEMENT

DRAWING TITLE

**MECHANICAL ROOM
DEMO & CONST
FLOOR PLANS**

DATE MAR 23, 2023	PROJ NO 23108
DRAWN BY AL	CHECKED BY DH

DRAWING NUMBER

A1.1

CONSTRUCTION NOTES:

- GC SHALL PATCH ALL FLOOR, WALL AND CEILING AREAS DISTURBED BY REMOVAL OF MECHANICAL ITEMS AS REQUIRED TO MATCH EXISTING.
- GC SHALL PROVIDE ALL REQUIRED ELECTRICAL AND PLUMBING CONNECTIONS, MODIFICATIONS & REMEDIATION ASSOCIATED WITH THE SCOPE OF WORK PRESENTED WITHIN THESE CONTRACT DOCUMENTS AS MAY BE REQUIRED TO COMPLETE THE PROJECT IN ITS ENTIRETY. REFER TO EQUIPMENT INSTALLATION DIRECTIONS, MANUFACTURER'S RECOMMENDATIONS, THE PROJECT MANUAL SPECIFICATIONS & FIELD CONDITIONS.
- PROVIDE BREAKERS, DISCONNECTS & HOME RUNS FOR ALL NEW EQUIPMENT. GC SHALL UTILIZE THE NEAREST SPARE CIRCUIT TO THE EQUIPMENT LOCATION.
- ALL ELECTRICAL SCOPE SHALL BE PROVIDED ON A DESIGN BUILD BASIS. GC SHALL BE RESPONSIBLE FOR ALL TESTING & LOAD CALCULATIONS SHOULD THEY BE REQUIRED BY THE AHJ.
- GC SHALL REMOVE & DISPOSE OF ANY INFRASTRUCTURE THAT IS ABANDONED AS PART OF THIS SCOPE OF WORK.
- GC SHALL ENSURE THAT ALL SUPPLY PIPING TO RESTROOM SINKS IS MAINTAINED IN WORKING ORDER. HOT WATER WILL NO LONGER BE SUPPLIED TO THESE SINKS.

GENERAL DEMOLITION NOTES

PROTECTION

- ALL RULES AND REGULATIONS GOVERNING THE RESPECTIVE UTILITIES SHALL BE OBSERVED IN EXECUTING ALL WORK UNDER THIS SECTION. ALL WORK SHALL BE EXECUTED IN SUCH A MANNER AS TO PREVENT ANY DAMAGE TO THE EXISTING BUILDING, SERVICE UTILITY LINES AND STRUCTURES.
- THE CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR DAMAGES TO THE EXISTING BUILDING AS WELL AS ADJOINING PRIVATE SPACES AND PROPERTY CAUSED BY HIS SUBCONTRACTOR'S EQUIPMENT AND PERSONNEL.
- PERFORM THE WORK IN SUCH A MANNER AS TO CAUSE NO INTERFERENCE WITH ACCESS BY THIS SUBCONTRACTOR OR OTHER CONTRACTORS TO ALL PORTIONS OF THE BUILDING AS NECESSARY FOR THE NORMAL CONDUCT OF THEIR WORK.
- THE CONTRACTOR SHALL NOT COMMENCE WORK UNTIL ITEMS SCHEDULED TO REMAIN HAVE BEEN ADEQUATELY PROTECTED. TAKE ALL POSSIBLE PRECAUTIONS TO AVOID DAMAGING THOSE ITEMS WHICH HAVE BEEN SPECIFIED BY THE OWNER TO BE SALVAGED AND/OR STOCKPILED.

PREPARATION

- NOTIFY ALL CORPORATIONS, COMPANIES, INDIVIDUALS OR LOCAL AUTHORITIES OWNING OR HAVING JURISDICTION OVER UTILITIES RUNNING TO, THROUGH OR ACROSS AREAS TO BE DISTURBED BY DEMOLITION OPERATIONS.
- HAVE ALL UTILITY SERVICES NOT OTHERWISE DESIGNATED TO BE DISCONNECTED BY THE CONTRACTOR, DISCONNECTED AT SERVICE MAINS BY THE GOVERNING UTILITY INVOLVED, UNLESS OTHERWISE SHOWN ON THE DRAWINGS OR DIRECTED BY THE ARCHITECT.

DEMOLITION

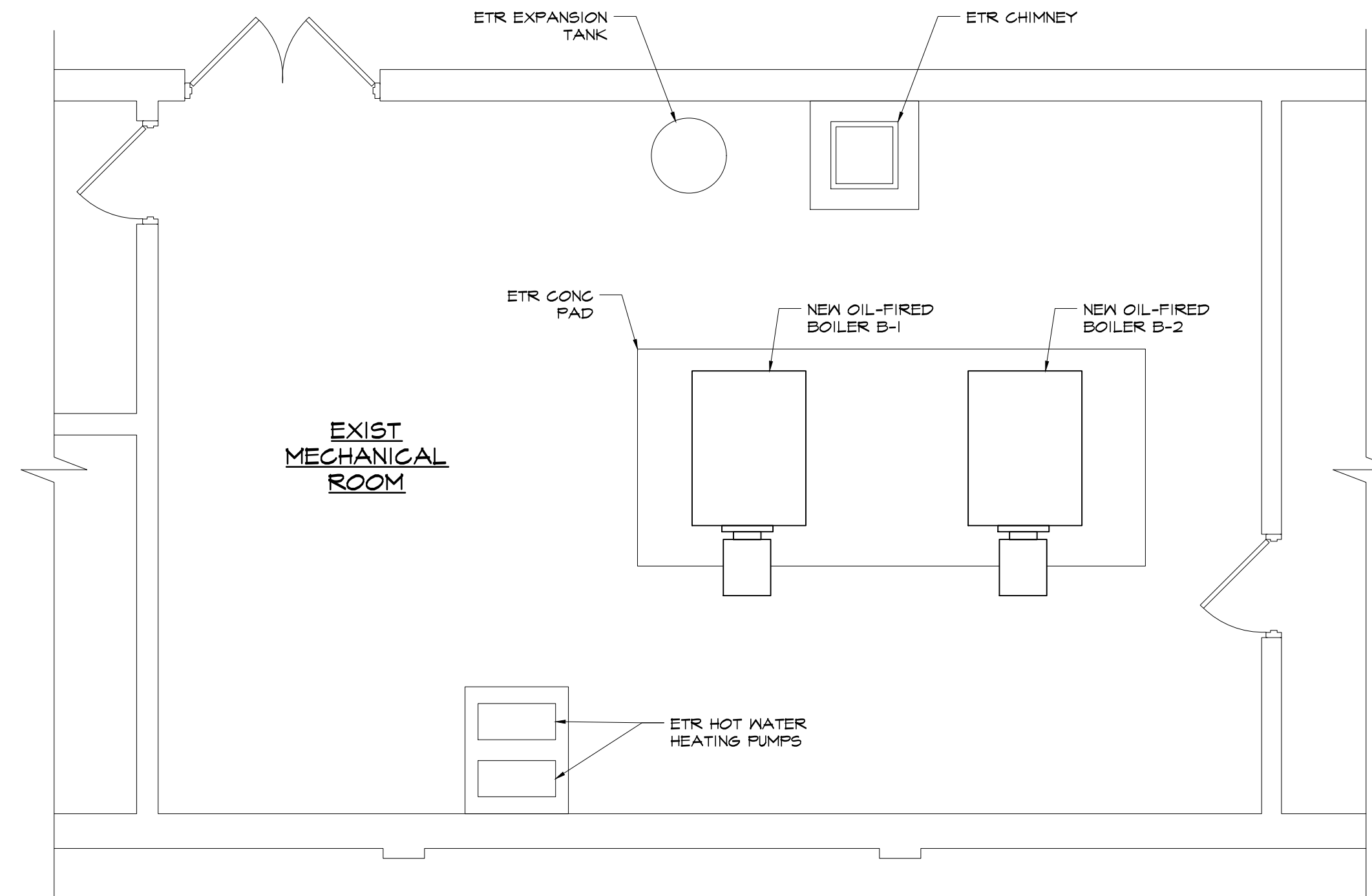
- DEMOLISH DESIGNATED EXISTING FEATURES ABOVE AND BELOW FLOOR LEVELS, WITHIN THE CONTRACT LIMIT LINES, AS NOTED TO PREPARE THE BUILDING FOR ALL OTHER WORK AS SPECIFIED OR AS SHOWN ON THE DRAWINGS AND AS ORDERED BY THE ARCHITECT.
- COMPLY WITH ALL STATE OF RHODE ISLAND DEPARTMENT OF HEALTH STANDARDS DURING DEMOLITION OPERATIONS.
- REMOVE AND SALVAGE MATERIAL REQ'D FOR LATER REUSE AS SHOWN ON THE DRAWINGS AND AS DIRECTED BY THE ARCHITECT.
- REMOVE AND DISPOSE OF ALL UNSUITABLE MATERIAL OFF SITE. THE OWNER SHALL HAVE RIGHT OF FIRST REFUSAL FOR ALL MATERIALS. REMOVE ANY STOCKPILED MATERIAL DEEMED SURPLUS BY THE ARCHITECT AT NO ADDITIONAL COST TO THE OWNER.
- REFER TO KEYED DEMOLITION NOTES AND THE DEMOLITION FLOOR PLAN FOR FURTHER CLARIFICATION OF ITEMS SCHEDULED FOR DEMOLITION.

DISPOSAL AND CLEAN UP

- PROMPTLY REMOVE ANY DEMOLITION DEBRIS OR SIMILAR MATERIAL, KEEPING THE AREA CLEAN AT ALL TIMES.
- DEMOLISHED MATERIAL
 - ALL DEMOLISHED MATERIAL DECLARED UNSUITABLE BY THE ARCHITECT SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE LEGALLY DISPOSED OF OFF THE PREMISES, UNLESS OTHERWISE INDICATED OR SPECIFIED.
 - KEEP ALL EXITS, PUBLIC WAYS AND EGRESS PASSAGEWAYS CLEAR OF ALL DEBRIS AT ALL TIMES.
- PREMISES: LEAVE THE PREMISES IN A SAFE, CLEAN AND RELATIVELY ORDERLY CONDITION UPON COMPLETION OF WORK.

GENERAL CONSTRUCTION NOTES

- THE CONTRACTOR SHALL OBTAIN ALL PERMITS AND INSPECTIONS NECESSARY TO INSURE ISSUANCE OF AN OCCUPANCY CERTIFICATE UPON COMPLETION OF THE WORK.
- THE CONTRACTOR SHALL MAINTAIN ALL INSURANCE REQ'D BY THE OWNER AND/OR GOVERNMENTAL AUTHORITIES AND SHALL PROVIDE PROOF OF SUCH INSURANCE AS REQ'D.
- ALL WORK SHALL BE IN STRICT ACCORDANCE W/ ALL APPLICABLE CODES, TOWN OF SCITUATE, RHODE ISLAND REQ'TS & AS PUT FORTH IN THESE CONSTRUCTION DOCUMENTS. WHERE CONFLICTS OCCUR, THE MOST STRINGENT REQ'TS SHALL BE MET.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR BRACING ALL WORK DURING CONSTRUCTION.
- THE DRAWINGS MAY NOT BE TO SCALE. SEE PLANS & DETAILS FOR DIMENSIONS.
- ALL EXTERIOR DIMENSIONS SHOWN ARE TO THE FACE OF FRAMING. ALL INTERIOR DIMENSIONS SHOWN ARE TO THE FACE OF SUBSTRATE.
- THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS & ELEVATIONS BEFORE COMMENCING CONSTRUCTION AND REPORT ANY DISCREPANCIES TO THE ARCHITECT BEFORE PROCEEDING.
- THE CONTRACTOR SHALL ANCHOR WALL MOUNTED EQUIPMENT & ACCESSORIES TO EXISTING WALLS AS REQ'D FOR PROPER SUPPORT. PROVIDE BLOCKING AS REQ'D.
- LEVEL OF GYP BD FINISH PER MATERIAL:
UNDER WALL COVERING: 4
UNDER PAINT: 5
- NOTHING IN THE SPECIFICATIONS OR DRAWINGS SHALL BE CONSTRUED TO ALLOW WORK NOT IN ACCORDANCE W/ THE CODE REQ'TS. WHEN REQ'TS SHOWN OR SPECIFIED ARE LESS THAN THOSE DICTATED IN THE CODE, THE CONTRACTOR SHALL FURNISH AND/OR INSTALL THE LARGER SIZE OR HIGHER STANDARD WITHOUT EXTRA COST TO THE OWNER.
- "PROVIDE" SHALL MEAN TO "SUPPLY & INSTALL".
- ALL MATERIALS USED IN THE CONSTRUCTION OF THIS PROJECT SHALL BE CLASSIFIED AS NONCOMBUSTIBLE PER THE STATE BUILDING CODE WHETHER SO INDICATED ON THE DWGS OR NOT.

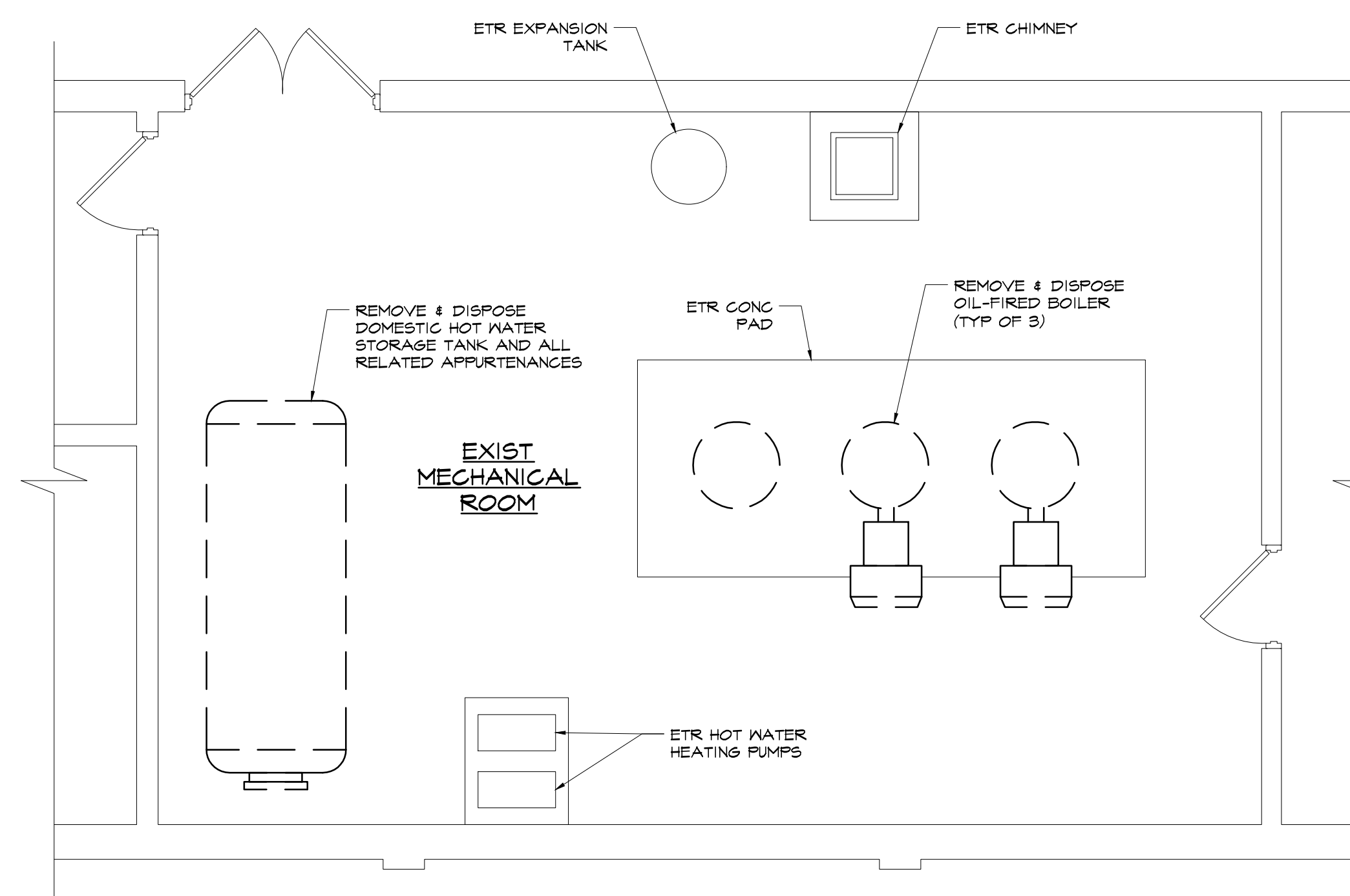


3 MECH ROOM FLOOR PLAN

A1.1 SCALE: 1/4" = 1'-0"

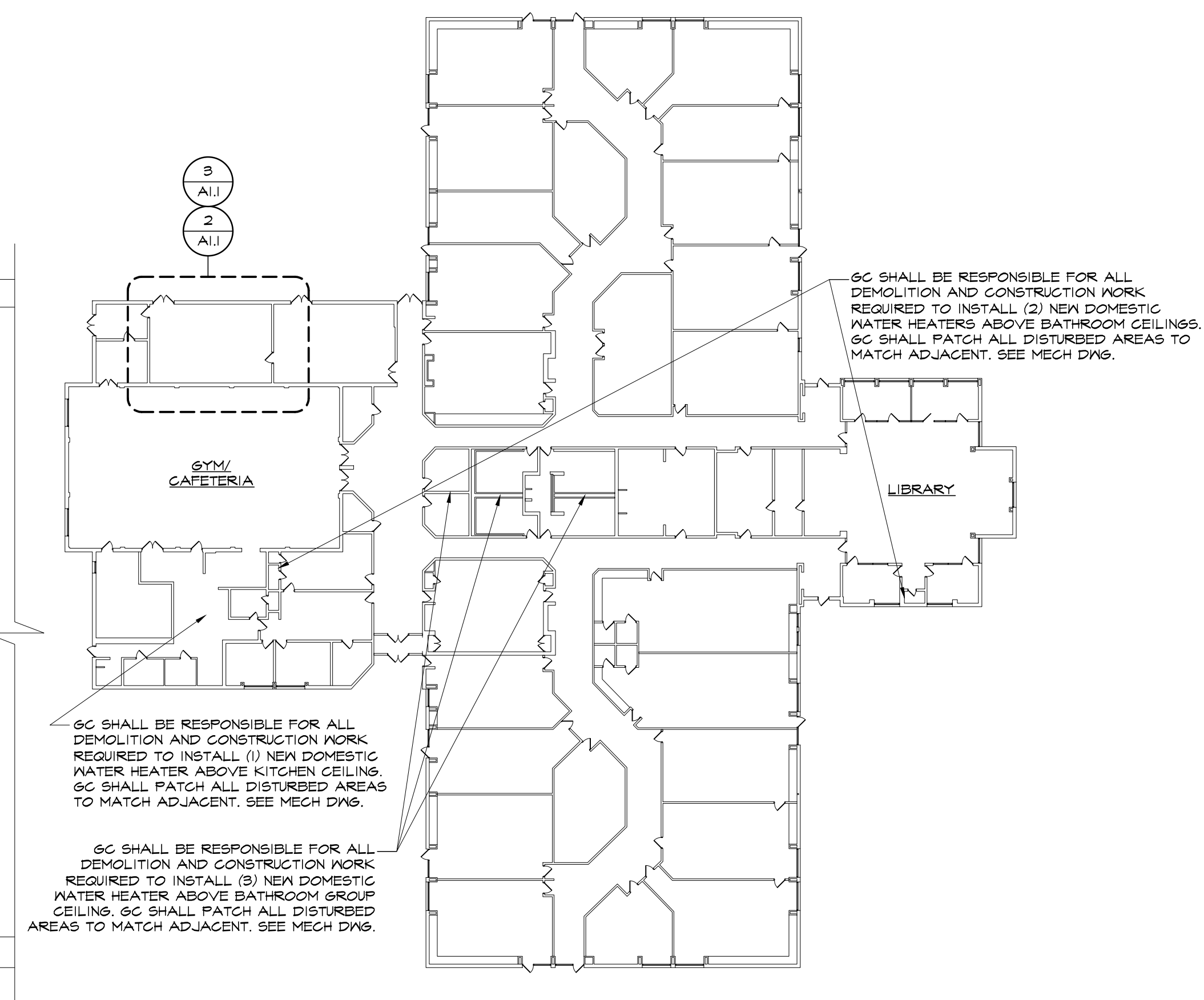
DEMOLITION NOTE:

SEE MECHANICAL DRAWING FOR COMPLETE SCOPE OF MECHANICAL ITEMS TO BE REMOVED.



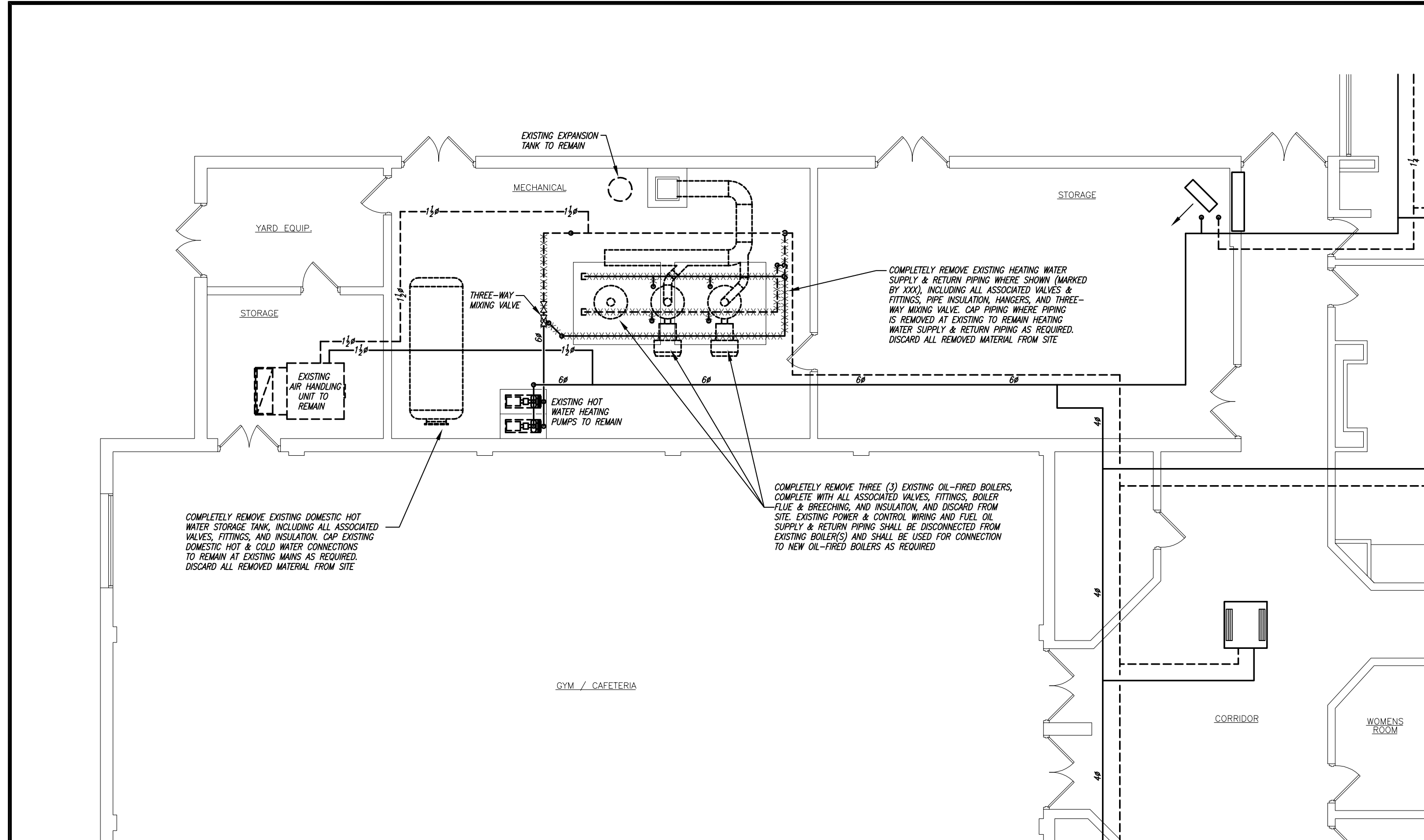
2 MECH ROOM DEMO FLOOR PLAN

A1.1 SCALE: 1/4" = 1'-0"

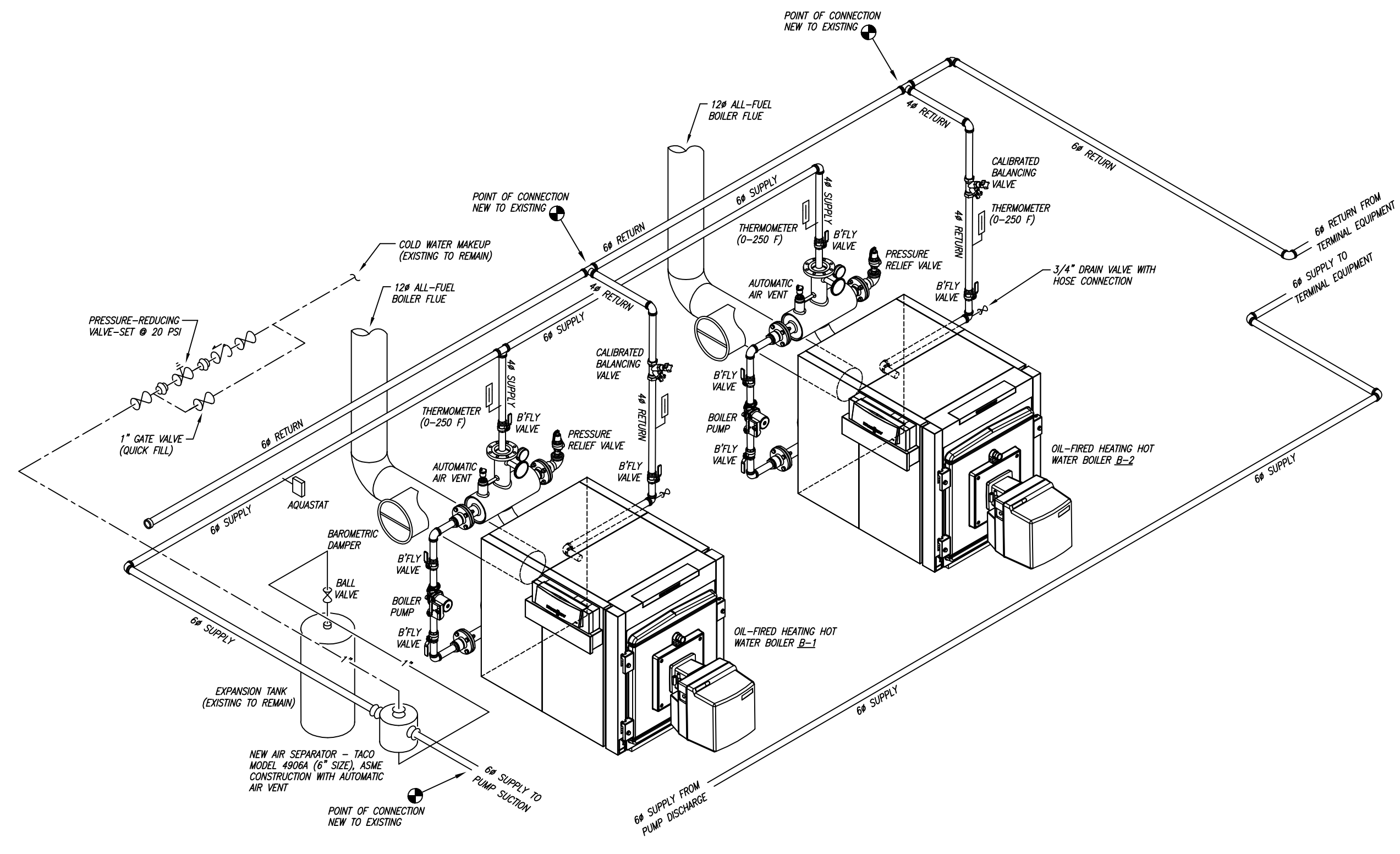


1 FOGARTY SCHOOL KEY PLAN

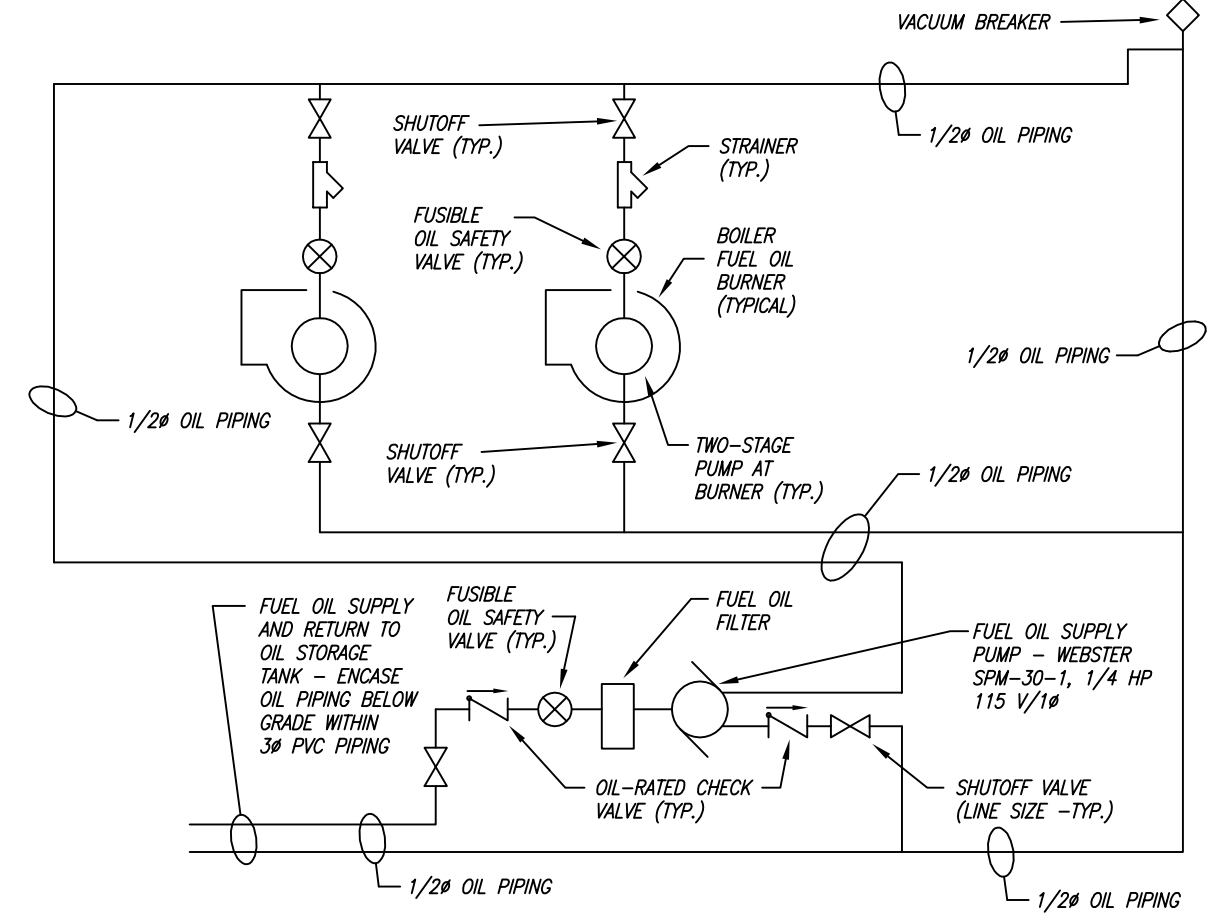
A1.1 SCALE: 1/32" = 1'-0"



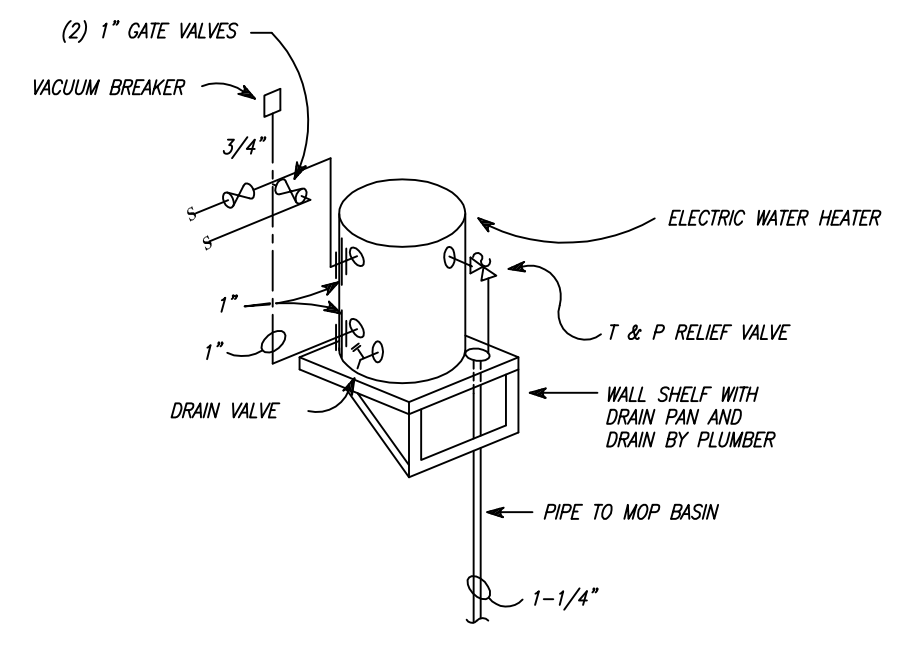
1 FLOOR PLAN - MECHANICAL DEMOLITION
SCALE: 1/8" = 1'-0"



MULTIPLE HEATING HOT WATER BOILER PIPING DETAIL
NO SCALE



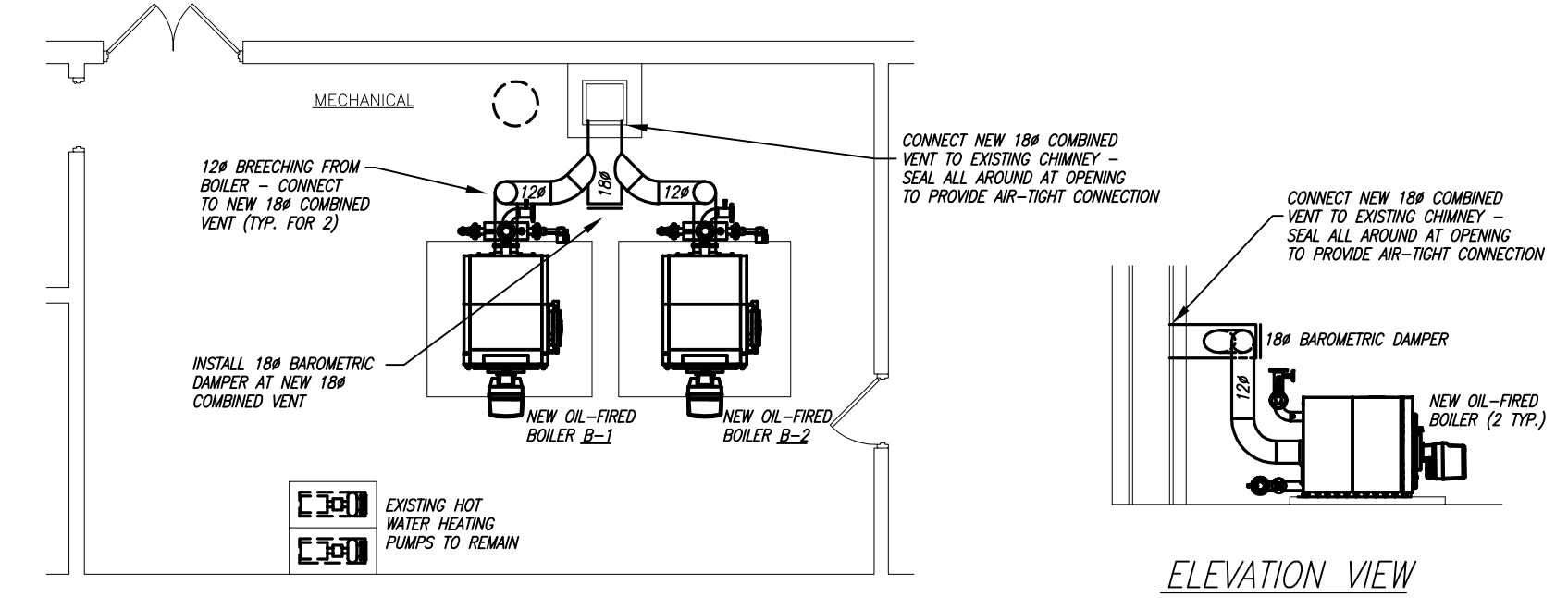
FUEL OIL PIPING DETAIL
NO SCALE



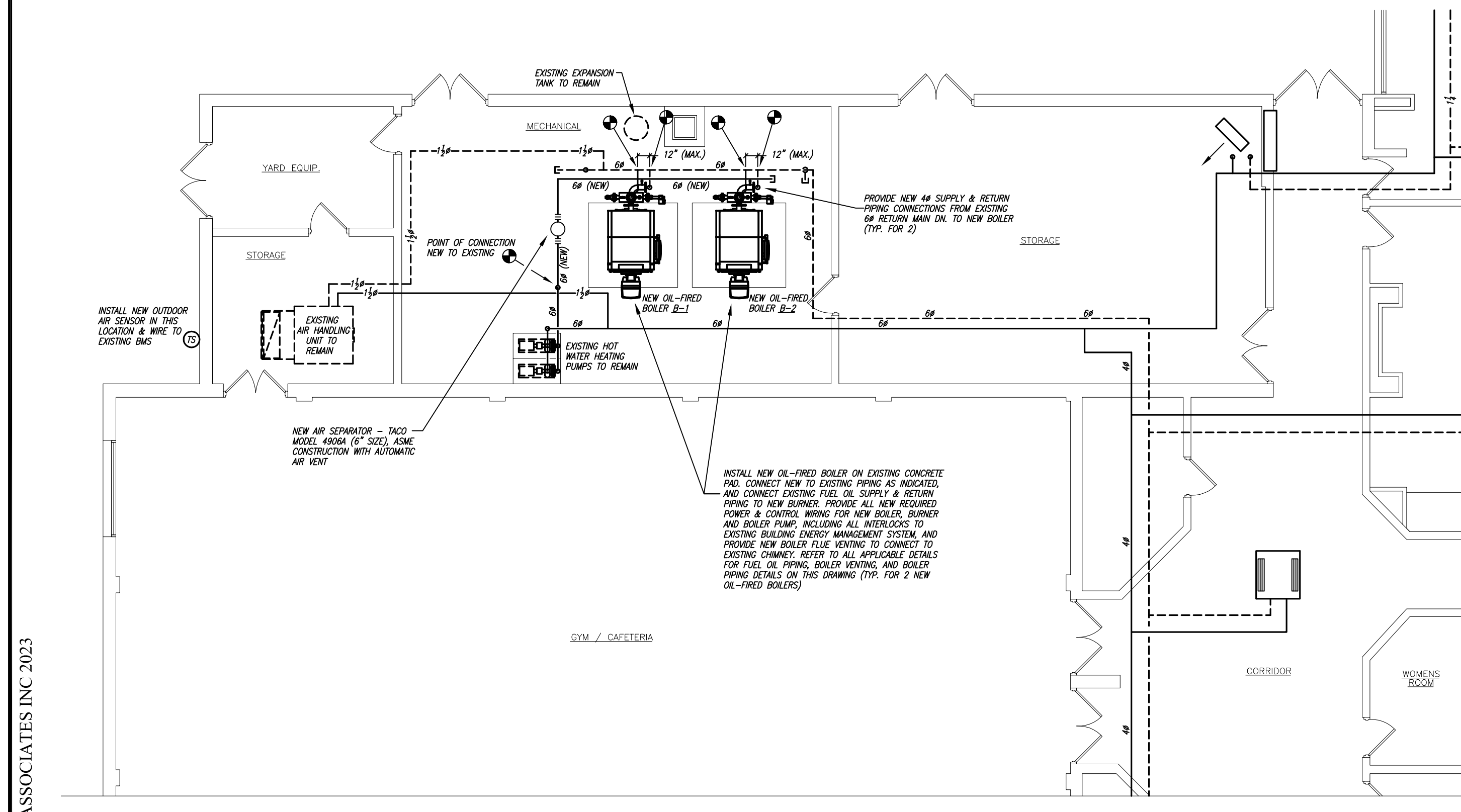
DOMESTIC WATER HEATER DETAIL
NO SCALE

WATER BOILER SCHEDULE						
SYMBOL	OUTPUT (AHRI BTU-2000)	OIL INPUT	MAX. WORKING PRESSURE	RELIEF VALVE SETTING	FLUE COLLAR DIAMETER	ELECTRICAL DATA
B-1	1,319,000 BTUH	10.8 GPH	75 PSI	75 PSI	12"	MOTOR HP / VOLTAGE 1/3 HP / 120 V/1Ø
B-2	1,319,000 BTUH	10.8 GPH	75 PSI	75 PSI	12"	MOTOR HP / VOLTAGE 1/3 HP / 120 V/1Ø

- FURNISH EACH BOILER COMPLETE WITH WESHMART MM-L110/2 FULLY-MODULATING LINKAGELESS OIL BURNER WITH DOOR SWITCH, 30X LPT PACKAGE INCLUDING CIRCULATOR PUMP, CAST IRON FLANGE SET, (2) FULL-PORT BALL VALVES, FLOW CHECK VALVE, STRAP-ON SENSOR, AND MOTOR STARTER, COMBUSTION AIR INTERFACE DEVICE FOR VITOTRONIC CONTROLS, AND COMPLETE DIGITAL MASTER BOILER CONTROL WITH OUTDOOR-INDOOR RESET (WESSMANN PART NUMBER DCP300).
- FURNISH EACH BOILER COMPLETE WITH WESHMART W4.0 TWO-STAGE LINKAGELESS OIL BURNER WITH DOOR SWITCH, 30X LPT PACKAGE INCLUDING CIRCULATOR PUMP, CAST IRON FLANGE SET, (2) FULL-PORT BALL VALVES, FLOW CHECK VALVE, STRAP-ON SENSOR, AND MOTOR STARTER, COMBUSTION AIR INTERFACE DEVICE FOR VITOTRONIC CONTROLS, AND COMPLETE DIGITAL MASTER BOILER CONTROL WITH OUTDOOR-INDOOR RESET (WESSMANN PART NUMBER DCP300).

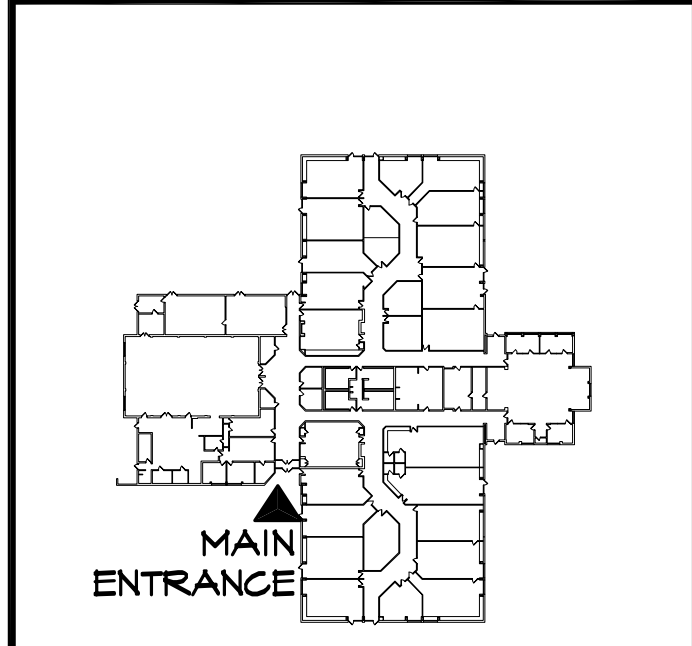


PARTIAL PLAN - BOILER VENT/CHIMNEY CONNECTIONS
SCALE: 1/8" = 1'-0"



2 FLOOR PLAN - MECHANICAL PROPOSED WORK
SCALE: 1/8" = 1'-0"

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KEY PLAN

REVISIONS		
NUMBER	REMARKS	DATE

ROBERT KYLE BAKER
No. 5333
2/24/23
REGISTERED PROFESSIONAL ENGINEER
R.K. BAKER & ASSOCIATES
ENGINEERS AND CONSULTANTS
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CRANSTON, RI 02909
(401) 974-5108

FOR CONSTRUCTION

PROJECT TITLE

Fogarty
MEMORIAL SCHOOL
736 Snake Hill Road
North Scituate, RI 02857
HVAC & BUILDING RENOVATIONS

DRAWING TITLE
**PLANS, SCHEDULES
DETAILS & NOTES
MECHANICAL**

DATE MARCH 24, 2023	PROJ NO 16105.2
DRAWN BY RKB	CHECKED BY RKB

DRAWING NUMBER

M1.1