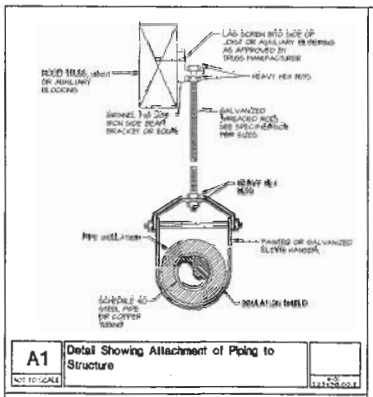
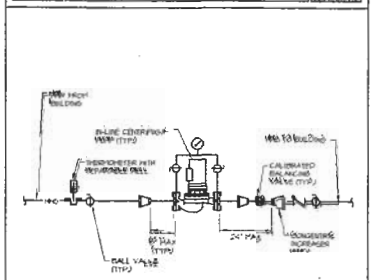


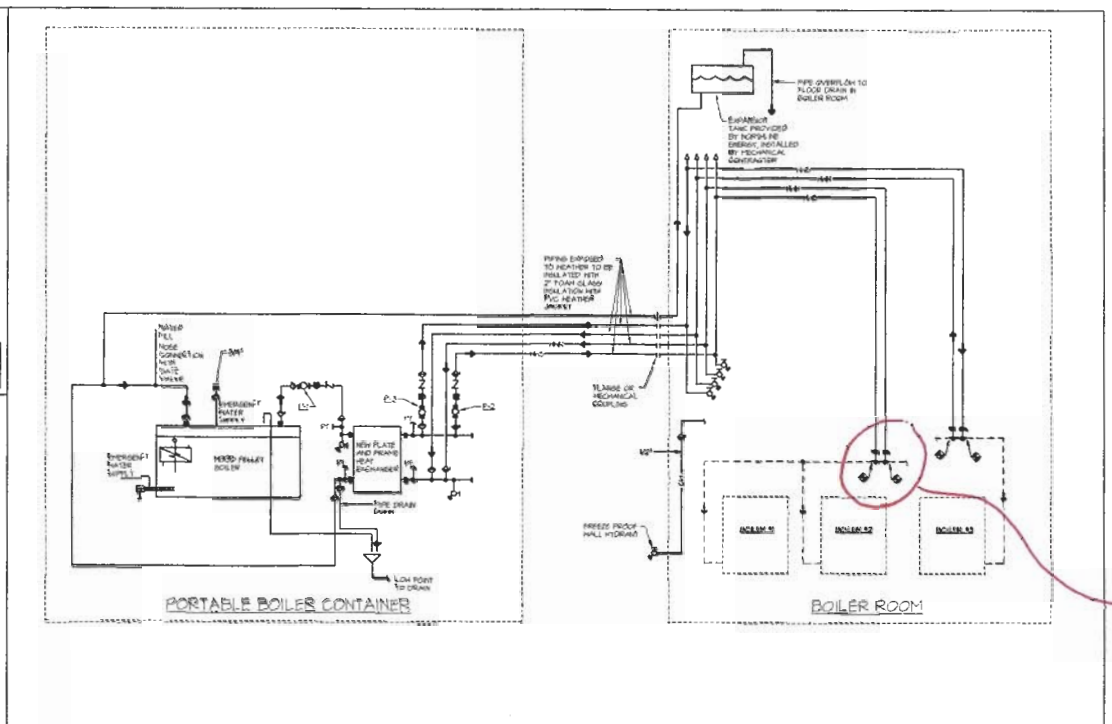
A1 Detail Showing Attachment of Piping to Structure

NOT TO SCALE



B1 In-Line Centrifugal Pump Detail

NOT TO SCALE



B2 Schematic

NOT TO SCALE

Reversed

SYMBOLS & ABBREVIATIONS

- EXISTING PIPING TO REMAIN
- EXISTING PIPING TO BE REMOVED (DEMOLITION PLAN ONLY)
- COLD WATER
- HOT WATER SUPPLY
- HOT WATER RETURN
- PIPING OFFSET UP
- PIPING OFFSET DOWN
- BRANCH TAKEOFF FROM PIPING MAIN
- BALL VALVE
- GATE VALVE
- WATER PRESSURE REDUCING VALVE
- PIPE UNION
- ECCENTRIC PIPE REDUCER
- CONCENTRIC PIPE REDUCER
- CHECK VALVE
- CALIBRATED WATER BALANCE VALVE
- PUSHBLE LINE VALVE
- PRESSURE GAUGE WITH GAUGE COCK
- PIPELINE STRAINER WITH BLOWDOWN
- DIRECTION OF FLOW
- PIPE CAP
- PRESSURE / TEMPERATURE FITTING
- HOSE END DRAIN VALVE WITH CAP AND CHAIN
- GATE VALVE BLOWDOWN WITH GAUGE END CONNECTION
- PRESSURE RELIEF VALVE
- THERMOMETER WITH SEPERABLE WELL
- MANUAL AIR VENT
- CONNECT NEW TO EXISTING
- TYP TYPICAL
- E/ EXISTING
- Dn DOWN

FLATE PLATE HEAT EXCHANGER SCHEDULE

TAG	MANUFACTURER	MODEL	SIDE 1 EWT (°F)	SIDE 1 LWT (°F)	SIDE 1 GPM	SIDE 1 FLUID	SIDE 1 ΔP	SIDE 2 EWT (°F)	SIDE 2 LWT (°F)	SIDE 2 GPM	SIDE 2 FLUID	SIDE 2 ΔP	REMARKS
HE-1	AIR HEAT TRANSFER												NOTE 1

NOTES:
1. DIMENSIONS: LENGTH 10", WIDTH 10", HEIGHT 11".

PUMP SCHEDULE

TAG	MANUFACTURER	SERIES	SERVICE	GPM	FT. HD.	CONNECTION S	CONNECTION D	ELECTRIC HP	ELECTRIC PH	ELECTRIC VOLTS	RPM	REMARKS
P-1	TACO											NOTE 1
P-2	TACO											NOTE 1
P-3	TACO											NOTE 1

NOTES:
1. DESIGNED BY [illegible].

northline energy

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CONSULTANT:

KEY PLAN:

ISSUE:

LETTER	DATE	DESCRIPTION
A	[illegible]	[illegible]

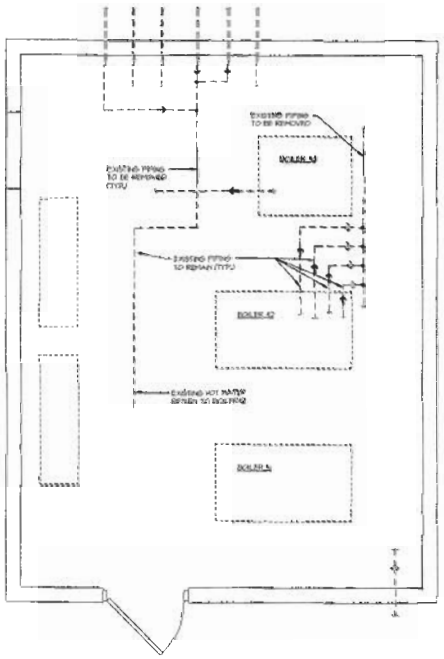
REVISION:

NO.	DATE	DESCRIPTION

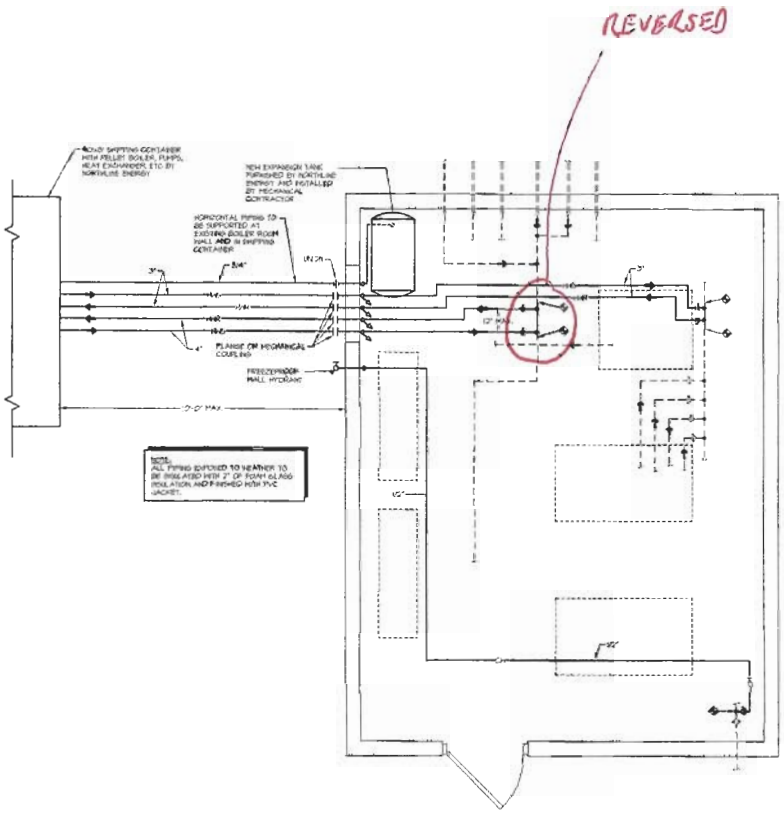
DRAWING TITLE:
DETAILS & SCHEDULES

SEAL:

DRAWING NO.:
M-001



FIRST FLOOR - PIPING - DEMOLITION



FIRST FLOOR - PIPING

SYMBOLS & ABBREVIATIONS

- EXISTING PIPING TO REMAIN
- EXISTING PIPING TO BE REMOVED (DEMOLITION PLAN ONLY)
- CH — COLD WATER
- HW — HOT WATER SUPPLY
- HR — HOT WATER RETURN
- PIPING OFFSET UP
- PIPING OFFSET DOWN
- BRANCH TAKEOFF FROM PIPING MAIN
- BALL VALVE
- GATE VALVE
- WATER PRESSURE REDUCING VALVE
- PIPE UNION
- ECCENTRIC PIPE REDUCER
- CONCENTRIC PIPE REDUCER
- CHECK VALVE
- CALIBRATED WATER BALANCE VALVE
- FUSIBLE LINK VALVE
- PRESSURE GAUGE WITH GAUGE COCK
- PIPELINE STRAINER WITH BLOWDOWN
- DIRECTION OF FLOW
- PIPE CAP
- PRESSURE / TEMPERATURE FITTING
- HOSE END DRAIN VALVE WITH CAP AND CHAIN
- GATE VALVE BLOWDOWN WITH HOSE END CONNECTION
- PRESSURE RELIEF VALVE
- THERMOMETER WITH SEPERABLE WELL
- MANUAL AIR VENT
- CONNECT NEW TO EXISTING
- TYP. — TYPICAL
- EX. — EXISTING
- DN — DOWN

DEMOLITION DRAWING NOTES

A. DEMOLITION PART PLANS ARE DIAGRAMMATIC AND ARE INCLUDED TO ASSIST CONTRACTOR IN APPROXIMATING SCOPE OF DEMOLITION WORK. MANY CHANGES TO ILLUSTRATED INSTALLATIONS MAY HAVE OCCURRED THAT ARE NOT INDICATED ON THESE DRAWINGS. IT IS THE INTENT OF THIS PROJECT TO REMOVE ALL EXISTING HVAC EQUIPMENT, DUCTWORK, PIPING AND ACCESSORIES IN PROJECT AREAS THAT WILL NOT REMAIN IN PLACE AS PART OF RENOVATION, AND TO MAINTAIN OPERATION AND FUNCTION OF ALL EXISTING HVAC EQUIPMENT AND SYSTEMS OUTSIDE PROJECT AREAS.

B. PIPING CUT DURING DEMOLITION PHASE SHALL BE CAPPED AND SEALED WHETHER INDICATED ON DRAWINGS OR NOT.

C. HVAC CONTRACTOR SHALL PROVIDE ALL TEMPORARY HVAC CONNECTIONS REQUIRED TO MAINTAIN OPERATION OF EXISTING HVAC EQUIPMENT AND SYSTEMS OUTSIDE PROJECT AREAS DURING CONSTRUCTION.

NOTE:
ALL NEW HYDRONIC HOT WATER PIPING TO BE INSULATED WITH 2" FIBERGLASS INSULATION.

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CONSULTANT:

KEY PLAN:

ISSUE:

LETTER	DATE	DESCRIPTION
A	[illegible]	PROGRESS SET

REVISION:

NO.	DATE	DESCRIPTION

DRAWING TITLE:
FIRST FLOOR PIPING & DEMOLITION

SEAL:

AS NOTED

DRAWING NO.:
M-101