

THE CITY OF WALTHAM
MASSACHUSETTS

PURCHASING DEPARTMENT

**EQUIPMENT INSTALLATION ONLY. Veterans Memorial Ice Rink,
Mechanical Improvements**

ADDENDUM NO. 1

January 8th, 2018

CHANGES, CORRECTIONS AND CLARIFICATIONS

The attention of bidders submitting proposals for the above subject project is called to the following addendum to the specifications. The items set forth herein, whether of omission, addition, substitution or clarification are all to be included in and form a part of the proposal submitted.

THE NUMBER OF THIS ADDENDUM (NO. 1) MUST BE ACKNOWLEDGED IN THE FORM FOR GENERAL BID SECTION 001010 B

ITEM 1: DELETE AND REPLACE, BID OPENING DATE

- a. Please **DELETE** bid opening date of “10:00 AM Thursday January 18, 2018” and **REPLACE** with “Tuesday 10:00 AM January 23, 2018”.

ITEM 2: DELETE AND REPLACE, PRE-BID MEETING DATE

- a. Please **DELETE** the current **pre-bid** meeting date of “1:00 PM Thursday January 11, 2018” and **REPLACE** with “10:00 AM Friday January 12, 2018”.

ITEM 3: DELETE AND REPLACE, LAST DAY FOR QUESTIONS

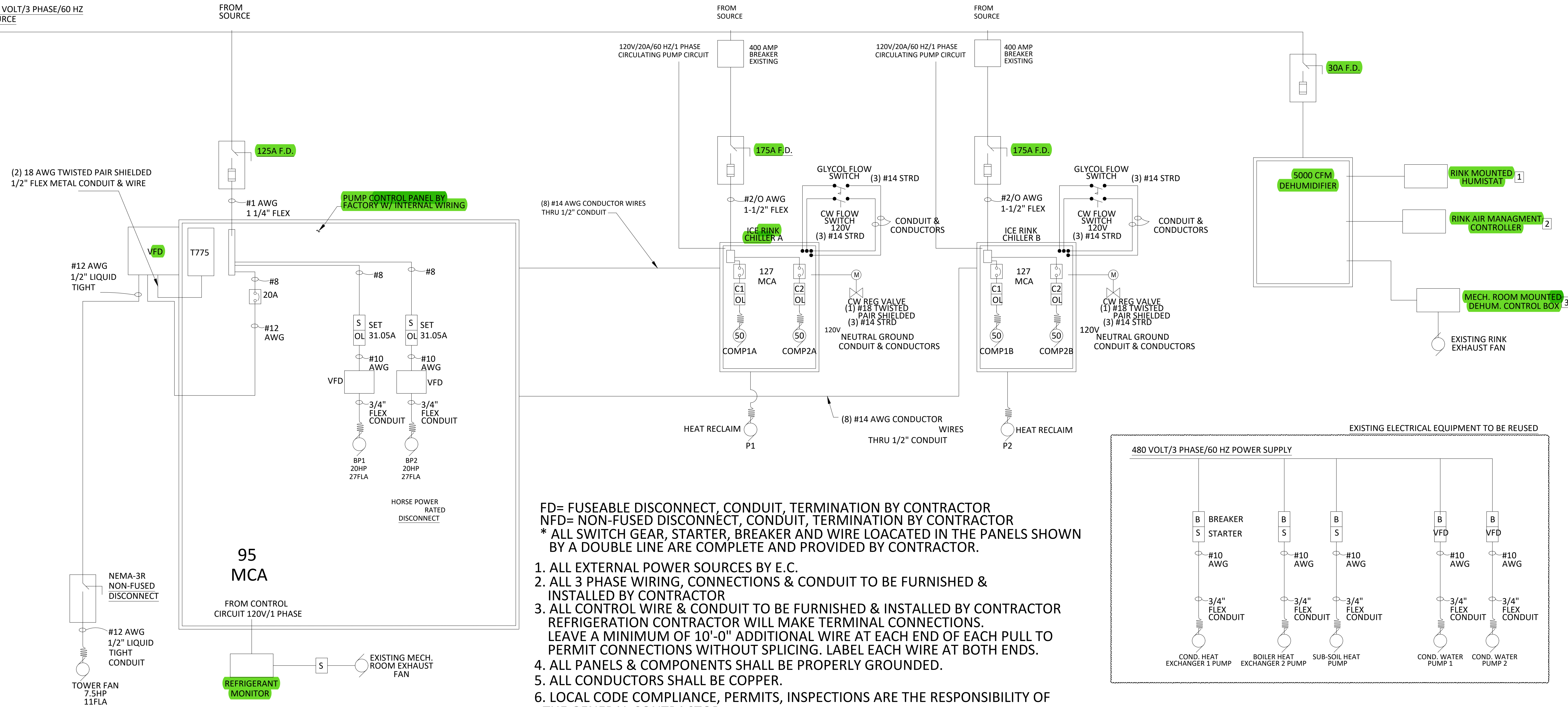
- a. Please **DELETE** the last day for questions of “12:00 Noon Friday January 12, 2018” and **REPLACE** with “12:00 Noon Tuesday January 16, 2018”.

ITEM 4: DELETE AND REPLACE, DRAWINGS

- a. Please DELETE the current “DRAWINGS” section and REPLACE with the attached drawings.

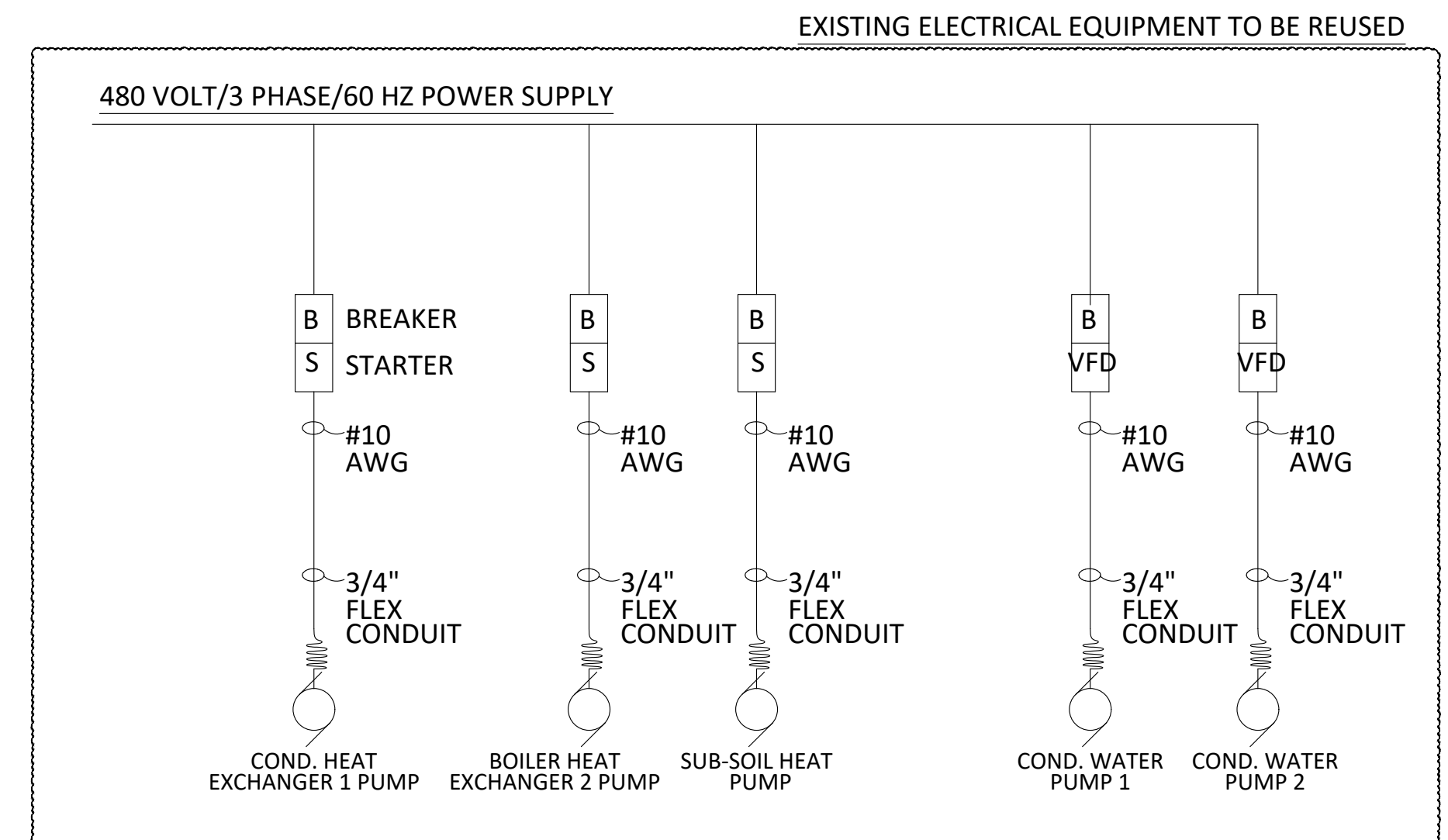
End of Addendum 1

460 VOLT/3 PHASE/60 HZ SOURCE



FD= FUSEABLE DISCONNECT, CONDUIT, TERMINATION BY CONTRACTOR
 NFD= NON-FUSED DISCONNECT, CONDUIT, TERMINATION BY CONTRACTOR
 * ALL SWITCH GEAR, STARTER, BREAKER AND WIRE LOCATED IN THE PANELS SHOWN BY A DOUBLE LINE ARE COMPLETE AND PROVIDED BY CONTRACTOR.

1. ALL EXTERNAL POWER SOURCES BY E.C.
2. ALL 3 PHASE WIRING, CONNECTIONS & CONDUIT TO BE FURNISHED & INSTALLED BY CONTRACTOR
3. ALL CONTROL WIRE & CONDUIT TO BE FURNISHED & INSTALLED BY CONTRACTOR REFRIGERATION CONTRACTOR WILL MAKE TERMINAL CONNECTIONS. LEAVE A MINIMUM OF 10'-0" ADDITIONAL WIRE AT EACH END OF EACH PULL TO PERMIT CONNECTIONS WITHOUT SPLICING. LABEL EACH WIRE AT BOTH ENDS.
4. ALL PANELS & COMPONENTS SHALL BE PROPERLY GROUNDED.
5. ALL CONDUCTORS SHALL BE COPPER.
6. LOCAL CODE COMPLIANCE, PERMITS, INSPECTIONS ARE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR.
7. ELECTRICAL INSTALLATION BY CONTRACTOR SHALL COMMENCE IMMEDIATELY AFTER PLACEMENT OF CHILLER AND PUMP SKID. A FUNCTIONAL SERVICE WILL BE REQUIRED FOR CHARGING & TESTING THE SYSTEM.
8. SEE SPECIFICATIONS FOR SEQUENCING OF OPERATIONS.

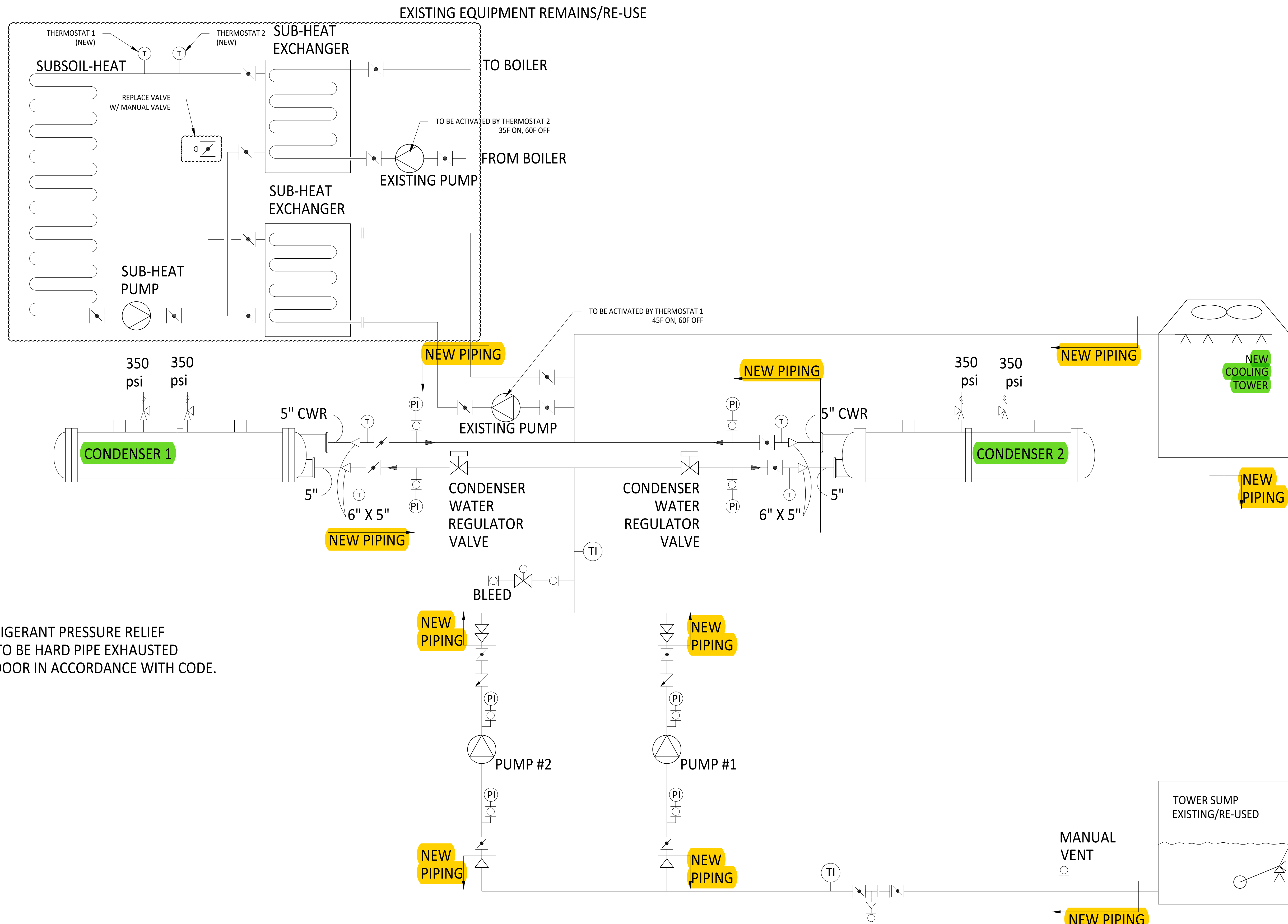


Revision date 01-02-2018.
 Highlighted to depict demarcation between factory and field electrical

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PROJECT	WALTHAM VETERAN'S RINK
WALTHAM, MA REFRIGERATION AND DEHUMIDIFICATION IMPROVEMENTS	
DRAWING TITLE	POWER FEEDER

CJL Engineering
 232 Horner Street
 Johnstown, PA 15902
 Southgate Consulting
 85 Westen Avenue
 Essex, MA 01929



* ALL REFRIGERANT PRESSURE RELIEF VALVES TO BE HARD PIPE EXHAUSTED TO OUTDOOR IN ACCORDANCE WITH CODE.

Revision date 01-02-2018.
Highlights to depict demarcation between factory and field piping.

CJL Engineering
232 Horner Street
Johnstown, PA 15902

Southgate Consulting
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Essex, MA 01929

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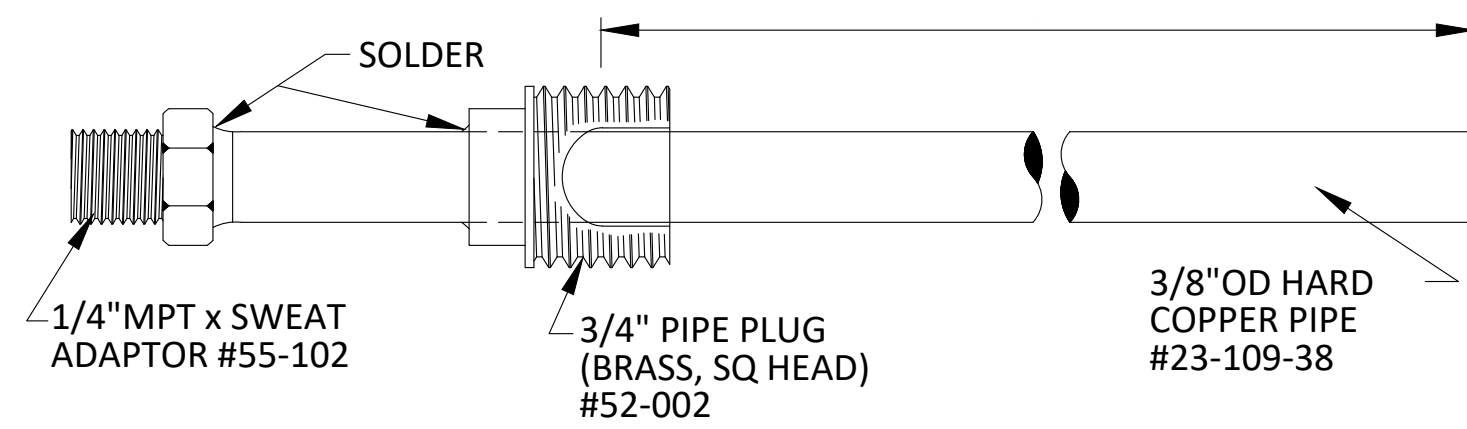
WALTHAM VETERAN'S RINK

WALTHAM, MA
REFRIGERATION AND DEHUMIDIFICATION IMPROVEMENTS

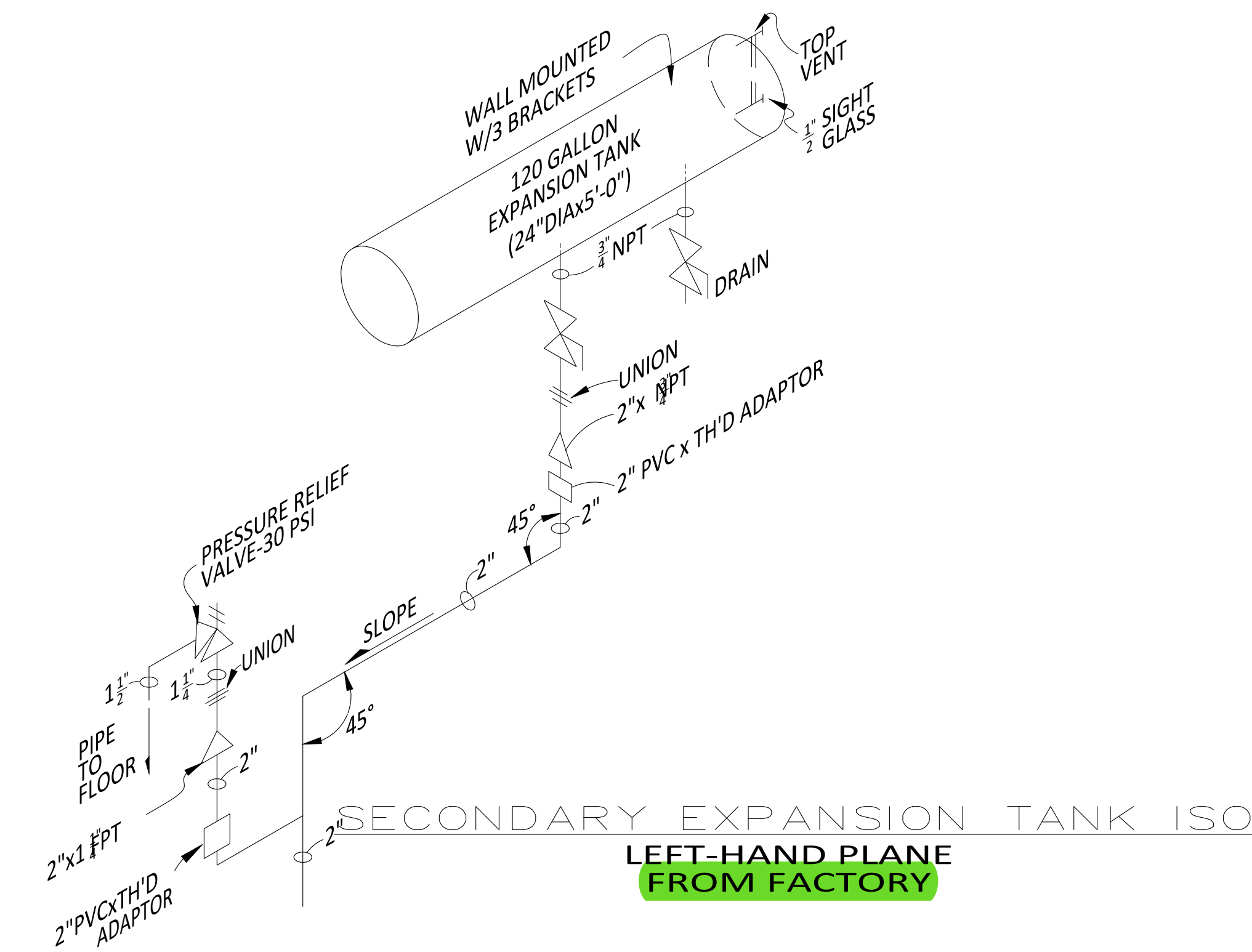
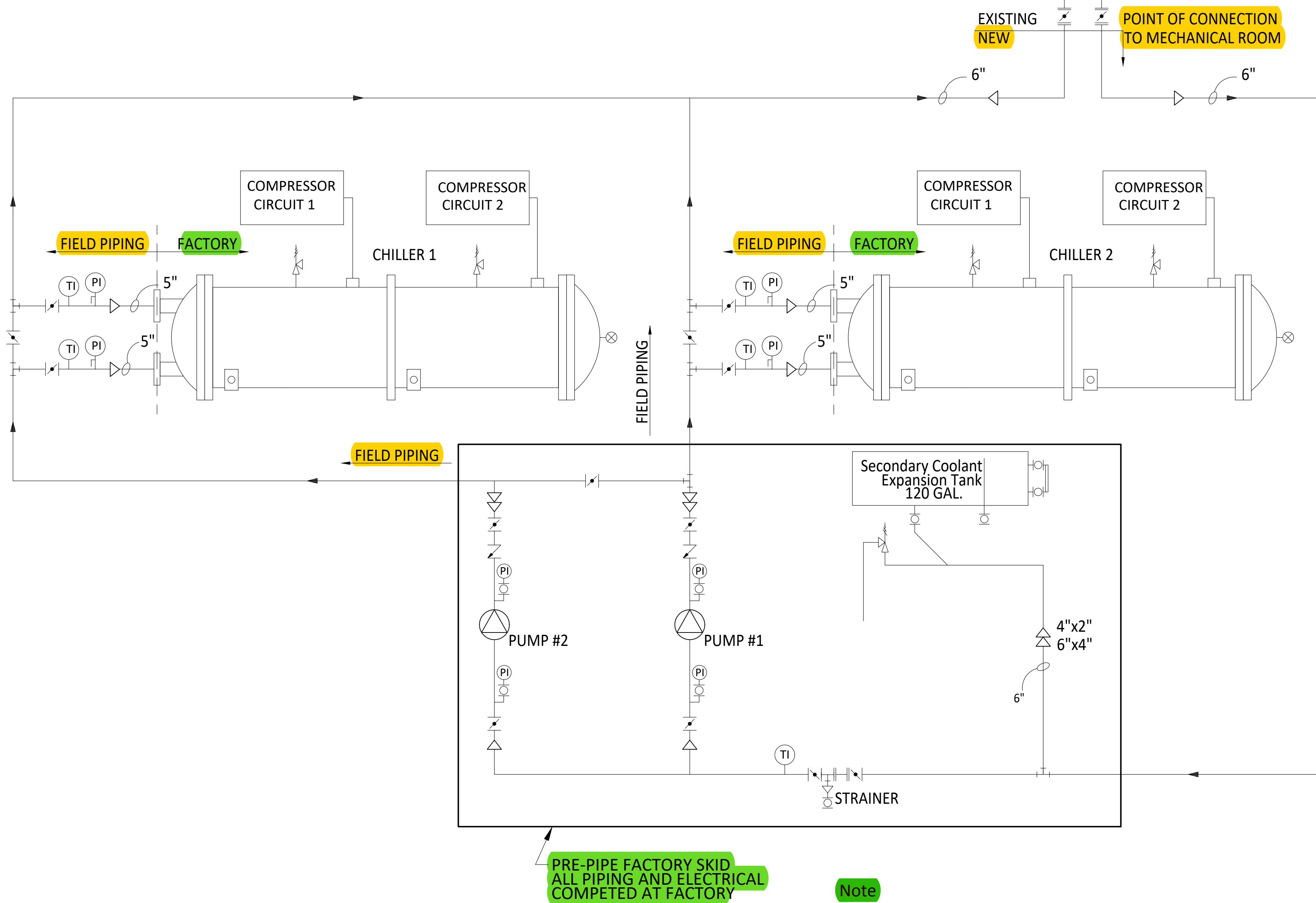
CONDENSER WATER

PROJECT
DRAWING TITLE

ADDITIONAL MAT'L (NOT SHOWN)
(1) 1/4" FPT BALL VALVE



BREATHER
120 GAL (24" DIA) EXPANSION TANK



* ALL REFRIGERANT PRESSURE RELIEF VALVES TO BE HARD PIPE EXHAUSTED TO OUTDOOR IN ACCORDANCE WITH CODE.

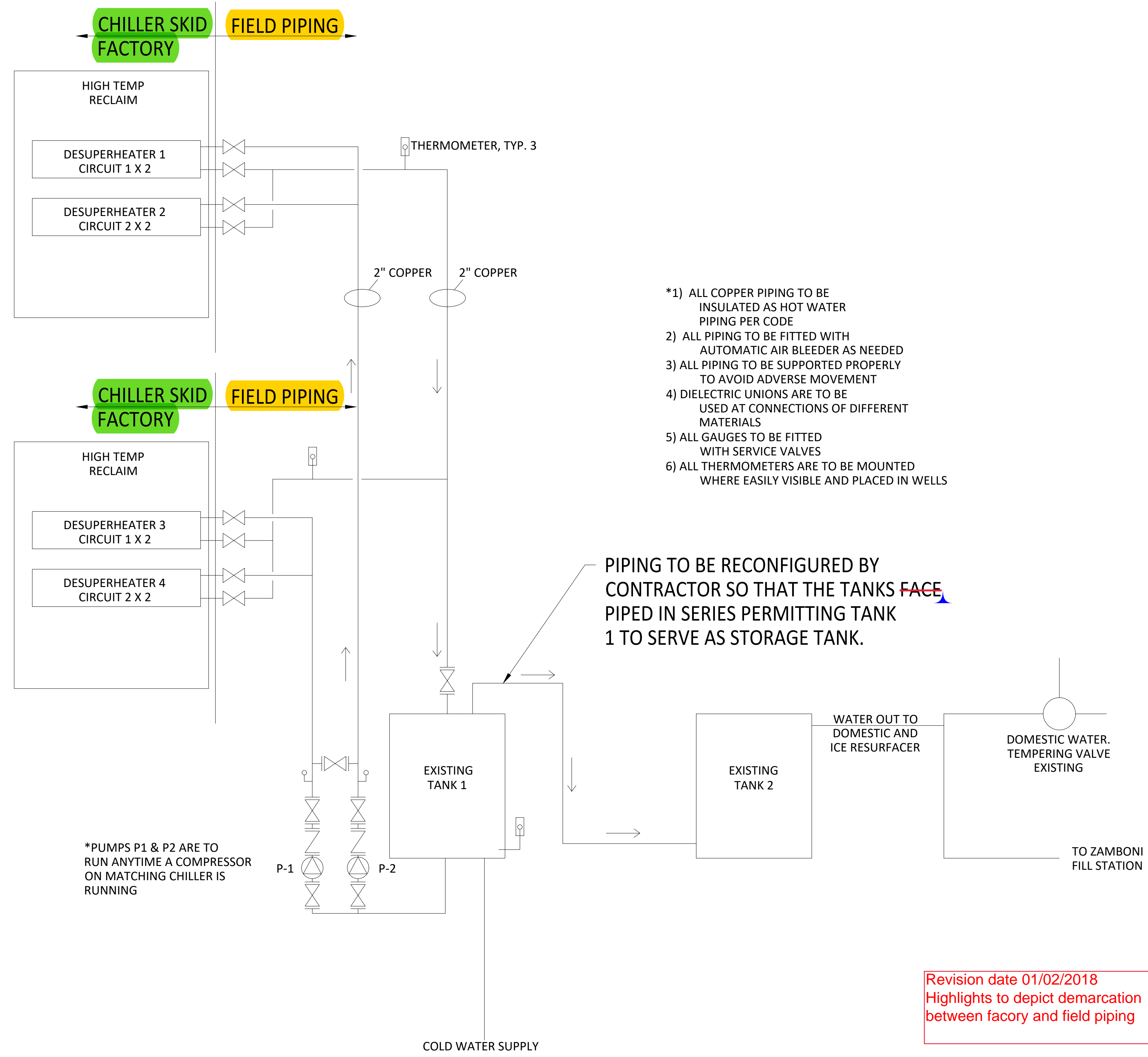
NOTES:

- 1) BRINE PUMP SCHEDULE:
BP2 -- 20 HP; 360 GPM @ 120 FT. HD.; ON VFD.
BP1 -- 20 HP; 360 GPM @ 120 FT. HD.; ON VFD.
- 2) ALL SECONDARY PIPING & FITTINGS SHALL BE SCH 80 PVC.
- 3) LOCATE PIPE HANGERS MINIMUM 6'-0" ON CENTER. PIPES TO BE INSTALLED PLUMB & LEVEL, EXCEPT WHERE NOTED OTHERWISE.
- 4) CHECK VALVES TO BE SILENT (NON-SLAM) TYPE.
- 5) INSULATE ALL PIPING, FITTINGS, VALVES, PUMP HOUSINGS, EXPANSION TANKS, ETC. WITH 3/4" TH'K ARMAFLEX INSULATION OR EQUAL. JOINTS & SEAMS TO BE SEALED WITH SUITABLE ADHESIVE SO AS TO CREATE A CONTINUOUS VAPOR BARRIER.
- 6) PIPE HANGERS SHALL NOT BREAK INSULATION BARRIER.
- 7) ONE INCH (1") MANUAL AIR VENT TO BE INSTALLED IN 6" DIA. STAND PIPE, MINIMUM 8" ABOVE VERTICAL DOWN LEGS IN PIPING, SO AS TO CREATE AN AIR COLLECTION POINT FOR VENTING.
- 8) LOCATE EXPANSION TANK AS HIGHEST POINT IN SYSTEM.

Revision date 01-02-2018.
Highlighted for demarcation
between factory and field piping.

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Note



- *1) ALL COPPER PIPING TO BE INSULATED AS HOT WATER PIPING PER CODE
- 2) ALL PIPING TO BE FITTED WITH AUTOMATIC AIR BLEEDER AS NEEDED
- 3) ALL PIPING TO BE SUPPORTED PROPERLY TO AVOID ADVERSE MOVEMENT
- 4) DIELECTRIC UNIONS ARE TO BE USED AT CONNECTIONS OF DIFFERENT MATERIALS
- 5) ALL GAUGES TO BE FITTED WITH SERVICE VALVES
- 6) ALL THERMOMETERS ARE TO BE MOUNTED WHERE EASILY VISIBLE AND PLACED IN WELLS

PIPING TO BE RECONFIGURED BY CONTRACTOR SO THAT THE TANKS FACE PIPED IN SERIES PERMITTING TANK 1 TO SERVE AS STORAGE TANK.

*PUMPS P1 & P2 ARE TO RUN ANYTIME A COMPRESSOR ON MATCHING CHILLER IS RUNNING

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Highlights to depict demarcation between factory and field piping

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PROJECT **WALTHAM VETERAN'S RINK**
WALTHAM, MA
REFRIGERATION AND DEHUMIDIFICATION IMPROVEMENTS

DRAWING TITLE **HEAT RECLAIM DIAGRAM**