

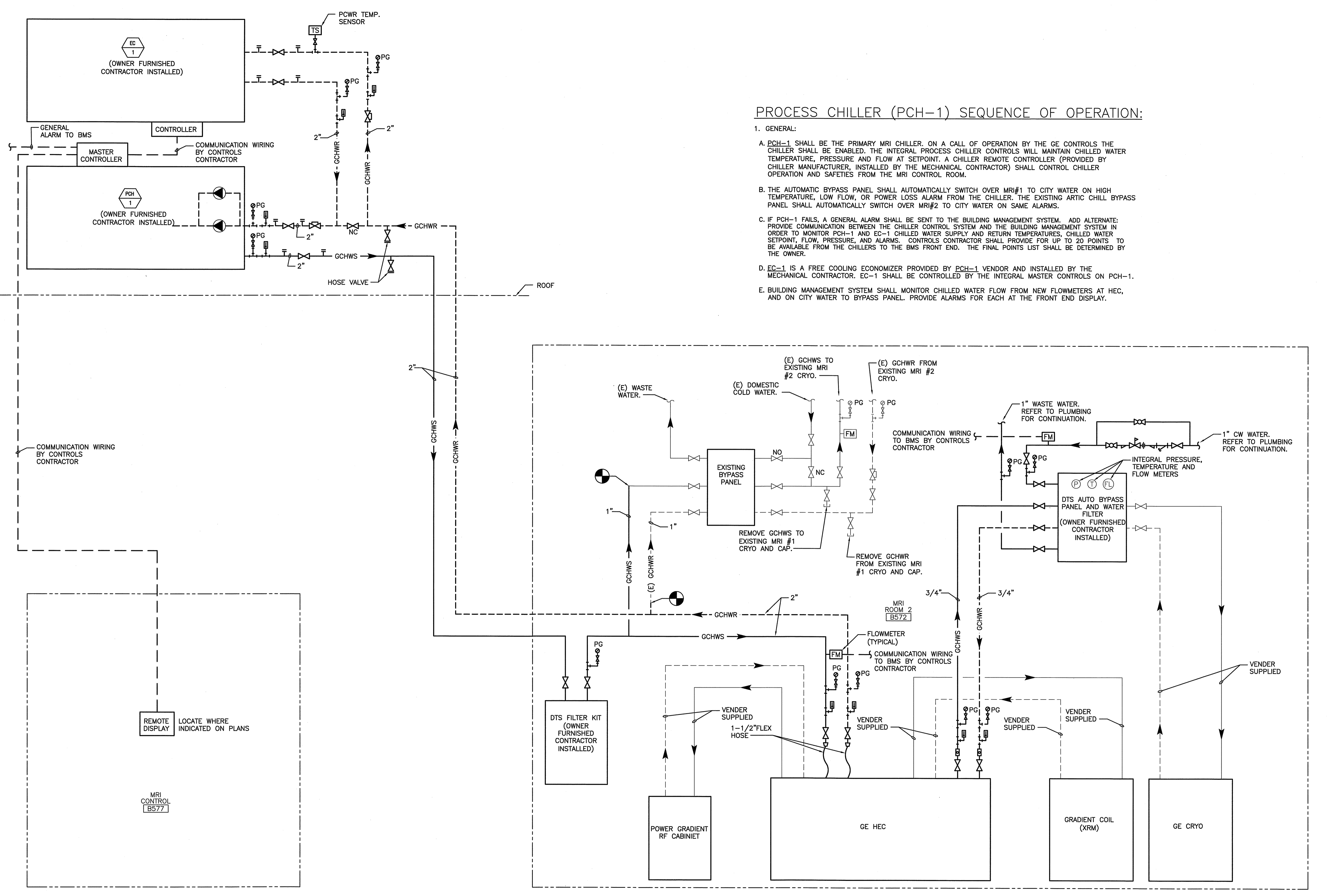
NOTE:

1. SEE SHEET M-001 FOR LEGEND AND ABBREVIATIONS.

PROCESS CHILLER (PCH-1) SEQUENCE OF OPERATION:

1. GENERAL:

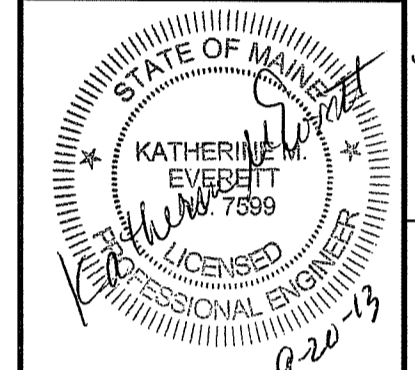
- A. PCH-1 SHALL BE THE PRIMARY MRI CHILLER. ON A CALL OF OPERATION BY THE GE CONTROLS THE CHILLER SHALL BE ENABLED. THE INTEGRAL PROCESS CHILLER CONTROLS WILL MAINTAIN CHILLED WATER TEMPERATURE, PRESSURE AND FLOW AT SETPOINT. A CHILLER REMOTE CONTROLLER (PROVIDED BY CHILLER MANUFACTURER, INSTALLED BY THE MECHANICAL CONTRACTOR) SHALL CONTROL CHILLER OPERATION AND SAFETIES FROM THE MRI CONTROL ROOM.
- B. THE AUTOMATIC BYPASS PANEL SHALL AUTOMATICALLY SWITCH OVER MRI#1 TO CITY WATER ON HIGH TEMPERATURE, LOW FLOW, OR POWER LOSS ALARM FROM THE CHILLER. THE EXISTING ARTIC CHILL BYPASS PANEL SHALL AUTOMATICALLY SWITCH OVER MRI#2 TO CITY WATER ON SAME ALARMS.
- C. IF PCH-1 FAILS, A GENERAL ALARM SHALL BE SENT TO THE BUILDING MANAGEMENT SYSTEM. ADD ALTERNATE: PROVIDE COMMUNICATION BETWEEN THE CHILLER CONTROL SYSTEM AND THE BUILDING MANAGEMENT SYSTEM IN ORDER TO MONITOR PCH-1 AND EC-1 CHILLED WATER SUPPLY AND RETURN TEMPERATURES, CHILLED WATER SETPOINT, FLOW, PRESSURE, AND ALARMS. CONTROLS CONTRACTOR SHALL PROVIDE FOR UP TO 20 POINTS TO BE AVAILABLE FROM THE CHILLERS TO THE BMS FRONT END. THE FINAL POINTS LIST SHALL BE DETERMINED BY THE OWNER.
- D. EC-1 IS A FREE COOLING ECONOMIZER PROVIDED BY PCH-1 VENDOR AND INSTALLED BY THE MECHANICAL CONTRACTOR. EC-1 SHALL BE CONTROLLED BY THE INTEGRAL MASTER CONTROLS ON PCH-1.
- E. BUILDING MANAGEMENT SYSTEM SHALL MONITOR CHILLED WATER FLOW FROM NEW FLOWMETERS AT HEC, AND ON CITY WATER TO BYPASS PANEL. PROVIDE ALARMS FOR EACH AT THE FRONT END DISPLAY.



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**MAINE MEDICAL CENTER
MRI #1 AND READING ROOM RENOVATION**
PORTLAND, MAINE

**ISSUED FOR CONSTRUCTION
9-20-13**

CURRENT ISSUE STATUS:

REV	ISSUED FOR CONSTRUCTION	DATE
0		9-20-13

GRAPHIC SCALE:
0" = 1"

SCALE: NONE
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A/E OF RECORD: KME
CAD FILE: M-651-12118
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DATE: 9-20-13

SHEET TITLE:
PROCESS CHILLED WATER SCHEMATIC

SHEET No.
M-651
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A1 PROCESS CHILLED WATER SCHEMATIC