

INSULATION SYSTEM REMOVAL AND REPLACE (FOURTH FLOOR)

A. Project Description

Work consists of removing and replacing chiller pipe insulation at the State Office Building, fourth floor, at 54 High Street, Wailuku HI, 96793. Existing chiller lines lengths consist of approximately: 250 feet of 2-inch diameter chiller lines, 50 feet of 1½ -inch diameter chiller lines, and 150 feet of 1¼-inch diameter chiller lines.

Contractor to remove and dispose properly all existing insulation. Contractor will then replace with new insulation, meeting the requirements below.

- B. Install insulation system in accordance with manufacturer's recommendations using tradesmen skilled in this trade. Provide insulation products with a composite (insulation, vapor barrier jacket and adhesive) fire and smoke hazard rating tested under ASTM E84, NFPA 255, and UL 723, not exceeding a Flame Spread of 25 and Smoke Development of 50.
- C. Do not apply insulation materials until all foreign materials, such as dirt, rust or scale have been removed and surfaces are clean and dry. Keep insulation clean, dry, and in good mechanical condition with all factory-supplied vapor or weather barriers intact and undamaged. Wet, dirty, or damaged insulation shall not be acceptable for installation.
- D. Pipe Insulation
 - a. Insulate the complete chilled water piping system serving the fourth floor. This amounts to a total of approximately 450 linear feet of 2-inch, 1½ -inch and 1¼ -inch chilled water lines.
 - b. Insulate all air conditioning system condensate drain piping inside the building. Insulation shall be ¾-inch thick unicellular plastic foam pipe insulation. Insulation material shall meet fire hazard rating not exceeding a Flame Spread of 25 and Smoke Development of 50 when tested in accordance with ASTM E84.
 - c. In all piping runs – seal every second butt joint completely so if condensation occurs it will not travel beyond second joint. All exterior of insulated pipe exposed inside the building shall be covered with an off-white color PVC jacket.