

Barbara Ingram

From: Michael Hromanik
Sent: Tuesday, March 14, 2023 11:25 AM
To: Barbara Ingram
Cc: Paul R; Tom H
Subject: Love Thy Neighbor- HVAC System Schematic Description

Hi Barbara, here's my write-up for the Care Center's HVAC System.

The proposed HVAC system shall utilize the existing rooftop air conditioning unit, with an indicated capacity of 8.5 tons cooling and 179 MBH heating. In addition, a new 1 ton, wall-mounted ductless split system unit shall be provided for the Break Room. New, programmable thermostats would be provided for both units.

The main spaces would be served by the existing rooftop unit. The airflow will be approximately 3400 cfm. There is no existing ductwork, so a new duct system would be provided, with a ducted above-ceiling supply, ceiling diffusers and grilles, and a plenum return. Because of the extensive windows in the Break Room, we recommend that its cooling load be met by a separate 1 ton air conditioner. This unit would be ductless, wall-mounted, with its condensate drained to the adjacent washing machine wall drain. The associated condensing unit would be mounted on the roof.

The restrooms would each be exhausted by a fractional horsepower, in-line exhaust fan, ceiling mounted, with sidewall exhausts mounted on the east exterior wall. The fans would be activated via occupancy sensors utilized for the restroom lighting.

Michael Hromanik, PE, BCxP

Mechanical Engineer

P R O C H A S K A & A S S O C I A T E S

planning | architecture | engineering | interiors | facility management

11317 chicago circle | omaha, nebraska 68154.2633
p 402.334.0755 ext 501 | f 402.334.0868 | www.prochaska.us

