

Revenue growth achieved through effective facility renovation

Spring Creek Rehabilitation & Health Care Center
Harrisburg, PA



Bulk Oxygen Pad and Tanks

THE CHALLENGE:

Retrofit a facility to include a new medical gas system. Coordinate the services of multiple providers without interfering in daily operations. Meet stringent state and federal building and health codes, within existing space.

THE SOLUTION:

Centralize responsibility for the entire project, from design and permitting to installation and finishing under one, experienced contractor – H.B. McClure.

H.B. McClure was selected as the primary contractor when Spring Creek Rehabilitation & Health Care Center decided to expand its services. Spring Creek is a short- and long-term rehabilitation facility providing Rehabilitation and Respiratory therapy. Since acquiring this facility from Dauphin County (formerly Dauphin Manor), Spring Creek has been making operational upgrades and renovations.

H.B. McClure was hired to install centrally piped oxygen and vacuum systems on a floor that was under renovation to become a respiratory therapy clinic.

PROJECT SCOPE:

The oxygen and the vacuum systems were designed to support 16 beds/patients. Both systems included newly installed outlet boxes, distribution piping, alarm systems and central supply systems, all installed to meet NFPA 99 Level 1 Certification.



PROJECT TYPE:

Design/Build Mechanical/Plumbing

GOAL:

Install a medical gas system that allows Spring Creek Rehab to expand its services, while meeting stringent building and health codes.

CONTACT:

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Duplex Vacuum Pump

This application needs an uninterrupted supply of oxygen so a bulk oxygen supply system is required. The bulk oxygen system required a permanent outdoor concrete pad to house the storage tanks. The bulk system location posed specific problems to meet requirements of "NFPA 50 Standard for Bulk Oxygen Systems at Consumer Sites." H.B. McClure located an appropriate site and gained township approval.

The bulk oxygen configuration is also equipped with a backup tank with a 24-hour reserve capacity. An emergency fill inlet is located on the building's exterior for emergency hookup should the bulk system



have any problems or require shut down service. The oxygen master alarm panel is equipped with a low-pressure and high-pressure alarm. It also has a low-tank alarm and reserve usage alarm warning.

The vacuum system includes a duplex vacuum pump, required for Level 1 Certification. The vacuum pump was installed in an existing maintenance room

situated far from tenant rooms due to the noise levels produced by the system. A new ventilation fan was added to keep the room temperature from exceeding 105 degrees. The vacuum master alarm panel is equipped with low vacuum pressure warning and pump failure to alert staff should a problem arise.

All required power wiring and adding emergency electrical outlets were coordinated by H.B. McClure. The existing generator was load tested to ensure proper operation before the installation was started.



Zone Valve Box

VALUE ADDED:

H.B. McClure added value for the owner by coordinating all aspects of the oxygen and vacuum system installation. This included enlisting the services of a Civil Engineering firm, Architect, Electrical Contractor, and Finishing Contractor. A medical gas supply company was also contracted to install the bulk oxygen system and associated pad work.

H.B. McClure managed all permit and zoning submissions required by the township, prior to installation. H.B. McClure supervised the preliminary and final submissions to the PA Department of Health's Division of Safety Inspection.

THE RESULTS:

Spring Creek Rehab saved man-hours and avoided certification problems by allowing H.B. McClure to manage the installation from permitting to finishing. Spring Creek Rehab was very satisfied with H.B.'s well-coordinated, start-to-finish process. Spring Creek now enjoys a wider range of services and a new growth area for their business.



before



after



before



after



before



after

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