



CASE STUDY

Massachusetts Institute of Technology (MIT) Sloan School of Management CAMBRIDGE, MA



EDUCATION

UNIVERSITIES

OPERATING COMPANY:

J.C. Higgins Corp.

CLIENT:

MIT

GENERAL CONTRACTOR:

Walsh Brothers

ARCHITECT:

Bruner/Cott & Associates

MECHANICAL ENGINEER:

van Zelm Engineers

SCHEDULE:

June 2008 to June 2010

CONTRACT AMOUNT:

Over \$17 Million

VALUE DELIVERED

A reliable, high-performance HVAC (heating, ventilation, air conditioning) solution; use of innovative heating and cooling technologies; cost efficiencies through resource and system repurposing; convenient snow and ice removal system for garage entrance ramp; optimum energy efficiency; lower energy costs; support for LEED Gold certification; a comfortable and productive educational environment.

CLIENT OBJECTIVES

To add a new office and classroom building to its existing business school campus.

SCOPE OF SERVICES

For this client, J.C. Higgins' innovative approach maximized HVAC system resources by using high-pressure steam and chilled water from MIT's main system to create low-pressure steam, hot water, and chilled water services for the new building. In addition, the company installed air-handling units with rotary air-to-air heat recovery wheels, as well as radiant panels, panel radiators, variable-air-volume boxes, and a quiet, energy-efficient, low-maintenance "chilled beam" system. The company also installed in-slab radiant tubing to melt snow and ice on the garage entrance ramp and to provide supplemental heating for the ground floor main gallery.

TECHNICAL SOLUTIONS

Relationships

Quality Service

VALUE ENGINEERING

Experience

Project Schedule & Coordination

EXPERTISE

- Design/Build
- Bid Build
- New Construction
- Retrofit/Renovation
- Electrical Construction
- Mechanical Construction
- Facilities Services
- Consulting Services



70 Hawes Way
Stoughton, MA 02072
T: 781.341.1500 • F: 781.344.6075
www.jchigginscorp.com

Massachusetts Institute of Technology (MIT) Sloan School of Management

CAMBRIDGE, MA

SOLUTIONS

As support for the client's effort to achieve LEED Gold certification, J.C. Higgins installed two components that play a key role in increasing energy efficiency. The heat recovery wheels in the air-handling units draw heat from the building's exhaust to warm the cool air coming into the building. The "chilled beam" system's innovative convection technology uses chilled water at a higher temperature than normal to cool the building.

BACKGROUND

Based in Cambridge, Massachusetts, the MIT Sloan School of Management is one of the world's leading business schools, conducting cutting-edge research and providing management education to top students from more than 60 countries. The school's new 398,000 s.f. building consists of four underground parking levels, six floors of offices/classrooms, and a seventh floor/roof level with penthouse mechanical rooms.



This document contains confidential and proprietary information and is intended solely for the internal business use of EMCOR Group, Inc. and its subsidiaries ("EMCOR"). The download, reproduction, or use of this document (in whole or in part) by anyone other than an EMCOR employee is not permitted and the distribution or display of this document (in whole or in part) to anyone other than an EMCOR employee is not permitted without the prior written consent of the Marketing and Communications Department of EMCOR Group, Inc. This document should be returned to EMCOR immediately upon request.

Copyright 2011, EMCOR Group, Inc., All Rights Reserved



70 Hawes Way
Stoughton, MA 02072
T: 781.341.1500 • F: 781.344.6075
www.jchigginscorp.com