

# REV. JAMES G. GAMBET

## CENTER FOR BUSINESS AND HEALTHCARE EDUCATION

Brett Tallada | Construction Management



### Project Information

<b>Building Name</b>	<b>Gambet Center for Healthcare and Education</b>
Location	DeSales University; Center Valley, PA
Occupancy	Business (B); Offices, Education, Research Labs
Gross Building Area	77,000 square feet
Total Number of Stories	2 Stories; above grade
Total Building Cost	Approx. \$27,000,000
Project Delivery	Design-Bid-Build (CM at Risk)
Period of Construction	June 2011 through May 2013

Project Team	
Architect	Breslin Ridyard Fadero Architects
Construction Manager	Alvin H. Butz, Inc.
Mechanical/Electrical Engineer	Snyder Hoffman Associates
Civil/Structural Engineer	Barry Isett and Associates
Food Service Consultant	L2M Foodservice Design Group
Owner Representative	DeSales University Facilities Services

## Architecture



As the new home for the business, nursing, and physician assistant programs at DeSales University, the Gambet Center was designed to be a state of the art facility that incorporates high levels of technology in the classroom while maintaining an emphasis on sustainability and healthy occupancy. Accessible from both main entrances on the north and south sides of the building, an open lobby and seating area creates a welcoming feeling conducive to student and

faculty interaction outside of the classroom. All faculty offices are located on the exterior of the building to provide expansive windows with an abundance of natural sunlight. A red brick exterior with limestone trim was used to retain a similar look to other DeSales buildings, with composite aluminum wall panels to give the Gambet Center a unique style on campus.

### Zoning:

Zoning for the Gambet Center falls under R-2 for a Suburban Residential District. This zoning designation applies to the Gambet Center for it's proposed use as a private school, business, and medical education facility.

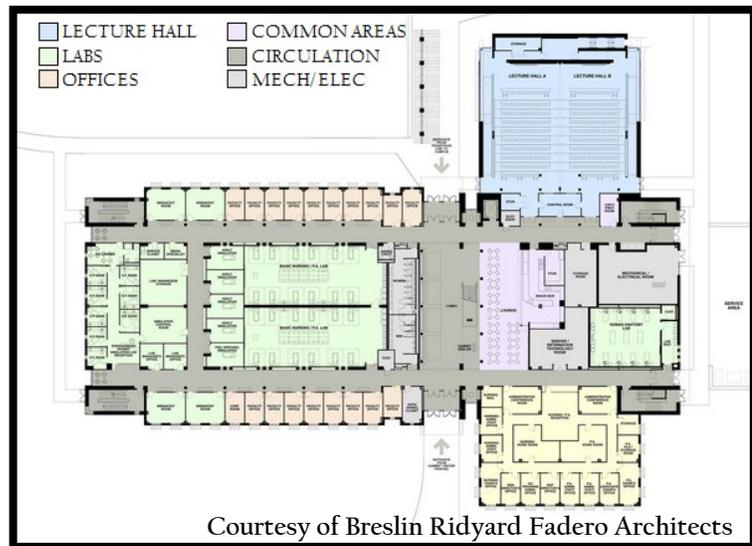


Figure 1: First Floor Plan

### Code

Building	2009 International Building Code
Energy	2009 International Energy Conservation Code
Plumbing	2009 International Plumbing Code
Mechanical	2009 International Mechanical Code
Electrical	2009 International Electrical Code
Fire	2009 International Fire Code

## Building Enclosure

### Façade:

Depicted in Figure 2, the wall section shows the building enclosure of red face brick, with a 1-½” air cavity, 1-½” cavity wall insulation, and ½” sheathing on a 6” structural steel frame. Variances to this basic structure occur in the stair towers and mechanical room, where the brick veneer will be backed by CMUs, with 2” cavity wall insulation. Limestone will be used for all sills, trim, and banding to complement the brick. Above the second story windows (horizontal sunshades) and on the south façade of the lecture halls, composite aluminum panels on ½” gypsum sheathing and 6” steel studs will be used. All exterior glazing shall be extruded aluminum curtain wall, either 6” or 7-½” deep as required. 1” thick insulating glass will be used, with no operable windows. The aluminum doors are constructed similarly with extruded aluminum and 1” insulating glass. Horizontal sunshades are to be supported by a galvanized structural steel frame. Integral sunshades and light shelves will be incorporated into the first floor office windows, as well. Refer to Appendix A for a more detailed view of the wall section in Figure 2.

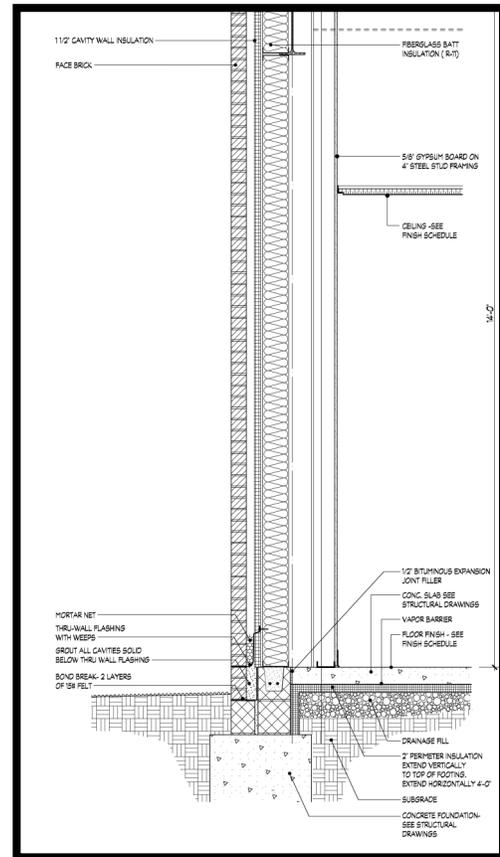


Figure 1

### Roofing:

The roofing for the Gambet Center will be a fully adhered, single ply EPDM roof over tapered rigid insulation. Metal decking on a structural steel frame will support the roof. Formed sheets of aluminum will be used for metal copings.

### Sustainability



The Gambet Center was specifically designed to incorporate aspects of sustainability to hopefully become eligible for a LEED® Silver Rating. Reduction of energy usage comprises most of the green aspects of the building. Utilization of natural sunlight is incorporated to alleviate the need for artificial light. However, lighting control systems with occupancy sensors and automatic motorized shades are also used to limit energy consumption. In addition, stockpiling topsoil, storm water management systems, and recycled materials will help to achieve green certification.

# Appendix A: Typical Exterior Wall Section

