

Executive Summary

The thesis abstract is a graphic representation of my thesis project building Lancaster General Hospital 5th and 6th Floor Fit-Out & Cardiac Elevator Addition. The project information listed on the abstract is meant to give an overview of the project details. Information illustrated includes:

Primary Project Team:

Owner: Lancaster General Hospital, www.lgh.com

General Contractor: Benchmark Construction Company Inc., www.benchmarkgc.com
5th & 6th Floor Fit-Out

Architect: RTKL Associates Inc., www.rtkl.com

MEP Engineering: Barton Associates, Inc. www.ba-inc.com

Cardiac Elevator:

Architect: IKM Inc.

Structural Engineering: Atlantic Engineering Services

Project Features:

Total Cost – GMP \$11,719,050

Project Deliver Method: Design-Bid-Build, GC

Occupancy or Function Type: Medical/Hospital

Square Feet – 50,192

Number of Stories Above Grade - 9

Construction:

5th & 6th Floor: Fit-Out of existing shell space

Cardiac Elevator: Steel and Cast-In-Place construction of new elevated elevator shaft

Tie-in to existing corridor

Structural Systems:

5th & 6th Floor: Existing Steel Frame – Cast-In-Place slab-on-deck to remain

Cardiac Elevator: New Steel Frame – Cast-In-Place slab-on-deck

Mechanical, Lighting & Electrical Systems:

3 AHU's totaling 41,060 CFM, 9400 DFM Outdoor Air

Medical Gas/Vacuum piping

Plumbing and sanitary piping

Electrical – 4-480V 75KVA transformers serving 8-120/208V panels normal branch

3-480V 75KVA transformers serving 6-120/208V panels Critical Branch

2-480V 15KVA transformers serving 2-120/208V panels Life Safety Branch