

The Harry and Jeanette Weinberg Center at Mercy Hospital



Project Information

Location - Baltimore, MD

Owner - Mercy Medical Center

Architect - RTKL

Engineer

Structural - RTKL

MEP - RMF Engineering Inc.

General Contractor - Harkins Builders

Architecture

Use: Medical Office Building providing
Outpatient Services

Stories: Six above grade, 1 below

Facade: Brick and glass curtain wall

Roof: Insulated metal deck with tar and
gravel surface

Features: -Drive through patient drop
off with access to parking garage
-Elevated walkway allows access
to Mercy Medical Center across E.
Saratoga Street
-An RTKL designed leaf motif on
the glass corner.



Structural System

Type: Structural steel frame with slab-
on-deck flooring utilizing composite
beam action

Foundation: -Caissons that bear on
bedrock

-A few spread footings

-Retaining wall system

Lateral Force System: 3 braced frames
that enclose the building core

Features: -Lower level framing carries
some lateral earth pressure

-Drive through is supported by
steel beams

Electrical/Lighting Systems

Main Power: 13,000 Volt Dry Transformer
provides The Weinberg Center with
power

Lighting is run on 277 Volt grid

Motors are run on a 480 Volt grid

Emergency Generators provide power to
building/elevators in case of a
blackout



Mechanical System

Fire Suppression: Wet pipe sprinklers

HVAC System: -Steam is purchased from
Trigen, Chilled Water is purchased
from ComfortLink

-Steam/Chilled Water is distributed
to air handling units located on
each floor in the Building Core

-Variable Air Volume boxed
distribute hot/cold air as needed

Kevin Clouser - Structural Option

www.arche.psu.edu/thesis/eportfolio/2007/portfolios/KDC153