



RYDAL PARK MEDICAL CENTER ADDITION

PROJECT INFORMATION:

FUNCTION : INSTITUTIONAL CARE
 BUILDING COST : \$28 MILLION
 SIZE : 142,862 SQUARE FEET
 DATES OF CONSTRUCTION : SEPT 09' - MARCH 11'
 DELIVERY METHOD : CM @ RISK, DESIGN-BID-BUILD W/ NEGOCIATED GMP

PROJECT TEAM:

OWNER : PRESBY'S INSPIRED LIFE
 DEVELOPERS : GREENBRIER DEVELOPERS, INC.
 ARCHITECT : STEWART-CONNERS PLLC
 CONSTRUCTION MANAGER : THE WHITING-TURNER CONTRACTING CO.
 STRUCTURAL ENGINEER : WK DICKSON & CO.
 MEP ENGINEER : MOORE ENGINEERING

ARCHITECTURE:

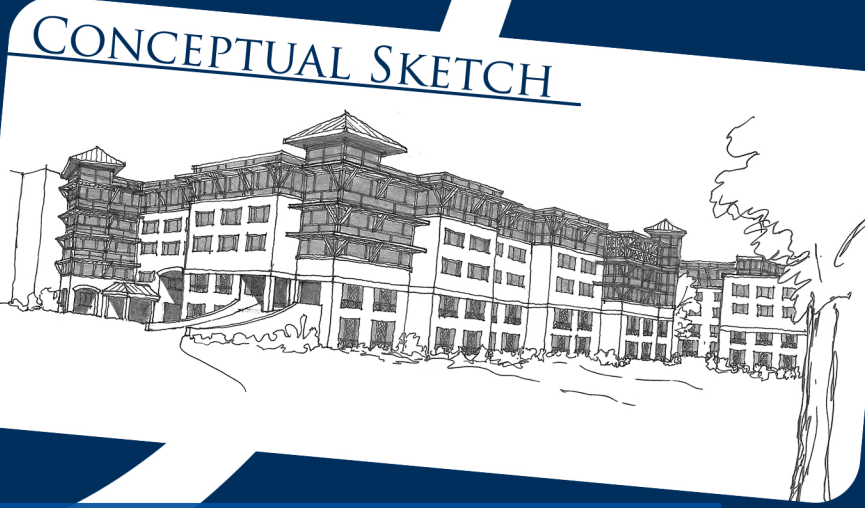
- AESTHETICS INTENDED TO INVOKE SENSE OF RESIDENTIAL COMMUNITY LIVING AT A LOCATION WHERE SENIORS MAY RECEIVE SKILLED ELDERLY NURSING CARE.
- 5 STORY STRUCTURE WILL INCLUDE:
 - TWO FLOORS OF PARKING GARAGE SPACE
 - TWO FLOORS OF SKILLED NURSING CARE
 - ONE FLOOR OF CRITICAL MEMORY SUPPORT
- FAÇADE WILL IMPLEMENT A STONE VENEER SYSTEM AND SPRAY APPLIED STUCCO AS WELL AS CURTAIN WINDOW WALL & PELLA WINDOWS TO MATCH THE EXISTING MEDICAL FACILITY

STRUCTURAL:

- FOUNDATION :
 - HELICAL GEO-PIER STONE COLUMN FOUNDATION SYSTEM WILL PROVIDE SUPPORT UNDER SPREAD FOOTERS
- SUPERSTRUCTURE :
 - POST-TENSION TWO-WAY CONCRETE SYSTEM
 - REINFORCED CONCRETE COLUMNS
 - REINFORCED MASONRY MASS SHEAR WALLS (GRAVITY SYSTEM), LOCATED MAINLY AT STAIRTOWERS, UTILIZED AS THE LATERAL SYSTEM
- ROOF STURCUTRE :
 - NON-COMPOSITE ROOF DECK MAINLY SUPPORTED BY K-SERIES JOISTS AND SEVERL INTERMEDIATE WIDE FLANGE BEAMS BETWEEN COLUMNS

MEP SYSTEMS:

- FOUR PIPE AIR/WATER HVAC SYSTEM:
 - THREE FAN COIL UNITS (400 - 1200 CFM)
 - EIGHT AHU'S (630 - 3770 CFM)
 - FOUR ENERGY RECOVERY UNITS (FIRST FLOOR)
- BUILDING POWER SUPPLIED BY PECO:
 - 15 KW SWITCHGEAR TO STEPDOWN POWER
 - 208/120V 3 PHASE 4 WIRE WIRE SYSTEM
 - 350 KW EMERGENCY GENERATOR (FIRST FLOOR)
- COMBINATION DRY AND WET PIPE FIRE SUPRESSION SYSTEM



CONCEPTUAL SKETCH

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 ARCHITECTURAL ENGINEERING | CONSTRUCTION MANAGEMENT
<http://www.engr.psu.edu/ae/thesis/portfolios/2010/mjd5060>