## The Downtown Family YMCA

## General Project Data Owner - YMCA of Metropolitan Detroit Construction Manager - Barton Malow Co. Architects/Engineers - Smithgroup Project cost - \$29 million Occupancy type - II-A, Recreational Size: 110,000 Square Feet Lighting/Electrical The building's main transformer is 15The main breaker consists of a 2000. 480/277V Y - 3 phase insulated case at •The secondary feeders provide 3000A of curi Dates of Construction - January '04-December '05 Project Delivery Method - Construction Management at Risk The emergency light ballast The entire building generall help of Detroit electrical ser lighting needs from a single wered nt lighting - With the vas able to acquire its Mechanical •5 rooftop air handling units (AHU) - 3 are used for general supply, providing 820 CFH each - 1 used for laundry at 450 CFH - 1 used for the nataorium at 1140 CFH • 5 seperate roof exhaust fans at 1000 CFM each • Natural gas boilers are used for the heating of water • Central de-ionized/reverse osmosis water system Structural Architectural Features •The building rests on drilled caissons at 120+ feet There is a climbing wall in the lobby •The office areas used mainly W18x35 and W18x50 beams · Lateral bracing was used for the climbing wall in the atrium •Elevated running track over the gym • Pool in the basement • 4000psi lightweight slab on deck with shear studs at 1 per 48" and •The building contains staggered floors, or 'half-levels' a 2" metal deck were used for floor construction •Decorative CMU masonry and glass facade No composite beams were used ·Site conditions give this building a unique 'stepped' Performing arts theatre

