THE SCHOOL OF FOREST RESOURCES BUILDING

UNIVERSITY PARK, PENNSYLVANIA

CHRIS HOYMAN

LIGHTING/ELECTRICAL

PROJECT TEAM

DWNER: THE PENNSYLVANIA STATE UNIVERSITY

CONSTRUCTION MANAGER: GILBANE BUILDING

PARCHITECT: BOWER LEWIS THROWER ARCHITECTS

STRUCTURAL AND CIVIL ENGINEER: GANNETT

MEP: BARD, RAD, AND ATHANAS

CONSTRUCTION INFORMATION

TIMELINE: OCTOBER 2004 TO MAY 2006

PTOTAL PROJECT COST: \$27,000,000

DELIVERY: DESIGN-BID-BUILD WITH MULTIPLE PRIMES

STRUCTURAL

STEEL FRAME CONSTRUCTION

>5-1/2" SLAB ON METAL DECK FLOOR SYSTEM

BEAM SIZES INCLUDE W12x22, W16x31, AND W16x36

TYPICAL BAY SIZE: 20' x 36'

MULTIPLE WALL SYSTEMS INCLUDING CURTAIN AND MASONRY WALLS

LIGHTING

TYPICALLY 277V FLUORESCENT

>2' X 2' AND LINEAR PENDANT FLUORESCENT FIXTURES COMMON

PRECESSED DOWNLIGHTS USED AS ACCENTS

DFFICES EQUIPPED WITH OCCUPANCY SENSORS







ELECTRICAL

DISTRIBUTION SWITCHGEAR (MDS)

TWO AUTOMATIC TRANSFER SWITCHES
FEEDING LIFE SAFETY AND EMERGENCY LAB
EQUIPMENT LOADS

TWO 480/277V PANEL BOARDS FED DIRECTLY BY MDS WHICH PROVIDE POWER TO ALL OTHER PANELS

TEN STEP-DOWN TRANSFORMERS TO FEED 208/1 20V LOADS

MECHANICAL

CAMPUS CHILLED WATER AND STEAM
SYSTEMS FOR COOLING AND HEATING

RADIANT PANEL AND ENGLOSED FIN TUBE

DONE 54,000 CFM AIRHANDLER SERVES
LAB AREAS OF BUILDING, TWO 40,000 CFM
AIRHANDLERS SERVE REMAINDER OF
BUILDING

MAIN BUILDING EXHAUST FANS LOCATED IN THE ATRIUM PULL 22.500 CFM EACH

HTTP://www.arche.psu.edu/Thesis/eportfolio/