

Professional Work Samples

Design work performed for Allegheny Center Associates
Pittsburgh, Pennsylvania
January 2010-June 2011

Joshua M. Abraham



Above: Existing Plaza Aerial View



Below: Design Concept

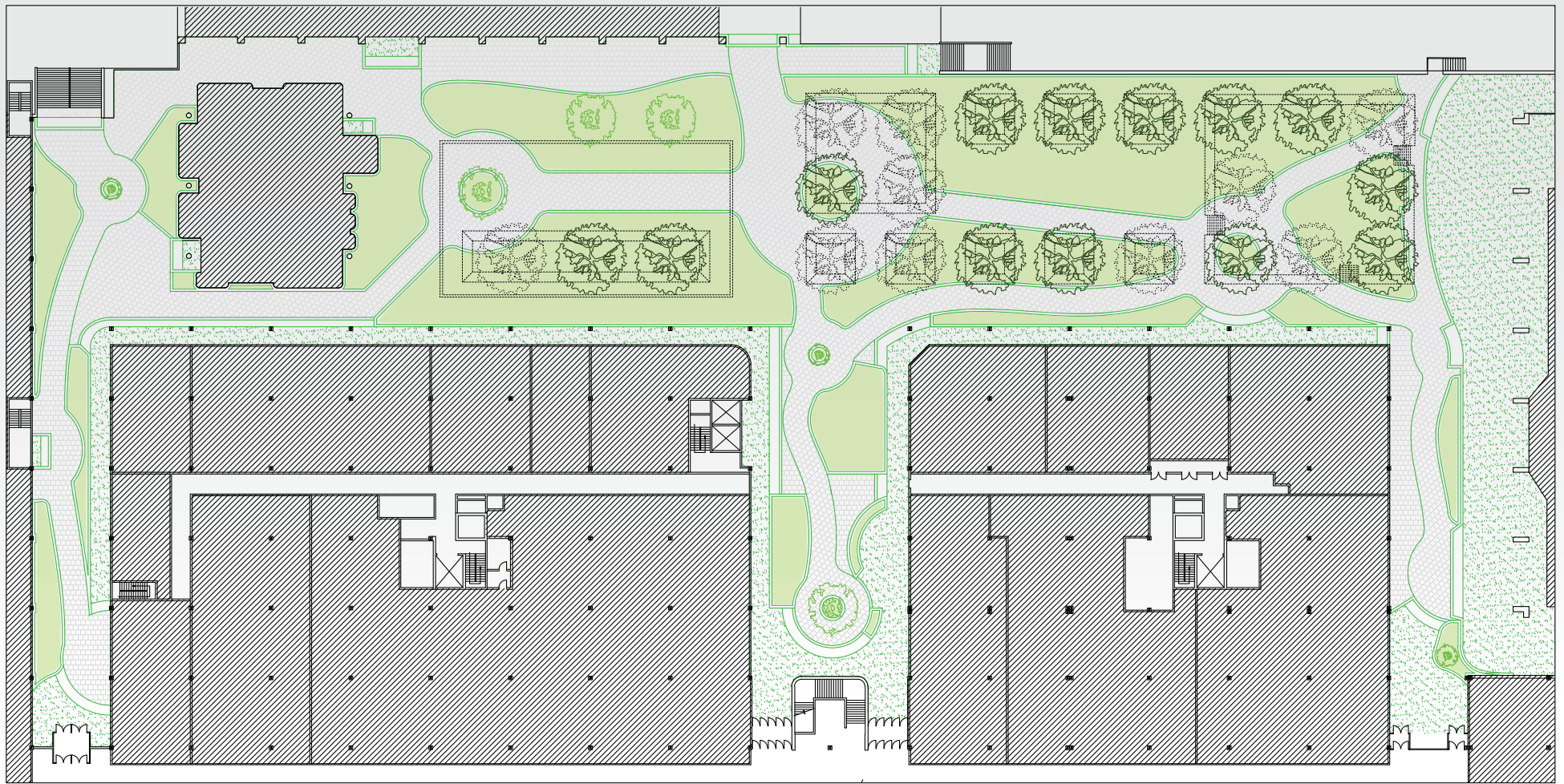
Pedestrian Plaza Design Concept

Major structural concrete repairs necessitated the demolition and redesign of the existing 100,000 square foot pedestrian plaza at Allegheny Center. This design concept met the owners' request for a more inviting, park-like setting, maximizing planter area while improving sight lines and circulation between buildings. The design also works around many of the existing, mature trees, reincorporating them into the new planter configuration.

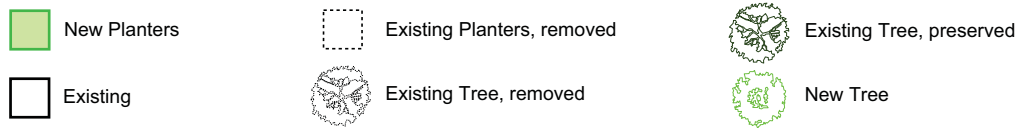


Concept Renderings





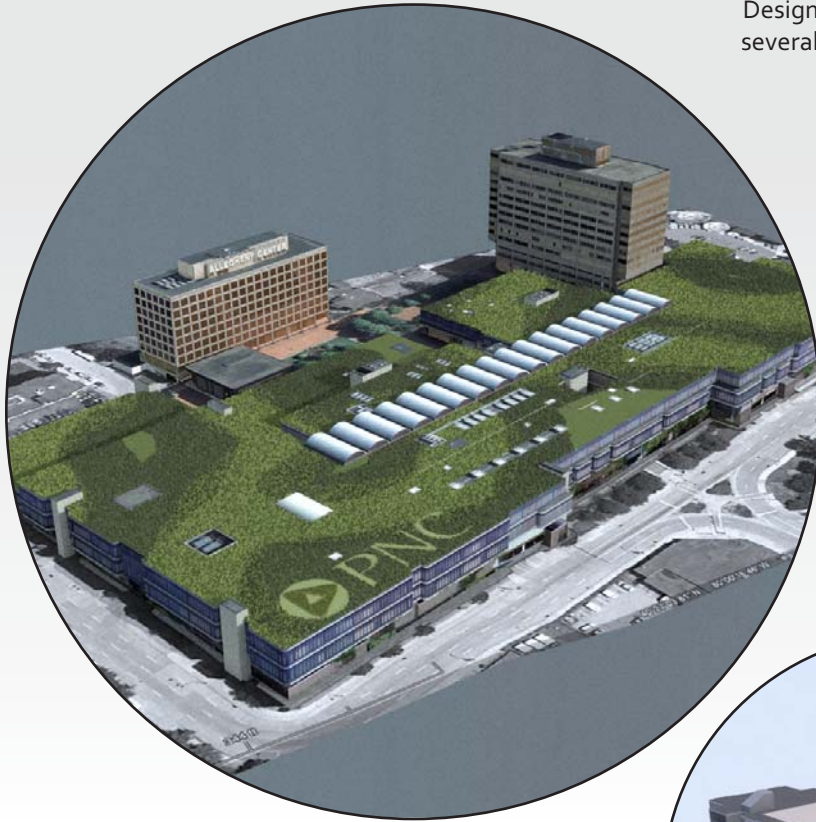
Plan Showing Existing Trees Reincorporated into New Design



Pedestrian Plaza Design Concept



Apartment Building Re-skin Concept Renderings:
Design Concept to update the appearance of
several 1960's-era brick apartment buildings.



Green Roof Rendering - created as part of a
brainstorming session on sustainable building
upgrades for a LEED-conscious tenant.



Conceptual Design and Renderings

Numerous design charrettes came up as Allegheny Center's owners contemplated aesthetic and logistical upgrades to the building complex. My design and rendering services allowed the owners to better visualize and plan for these improvements. Additionally, I was encouraged to develop and present my own ideas for potential improvements, based on my personal experience on site. Several samples of this work are included here.



Interior Concourse Rendering:
Concept for furniture and lighting
additions to a former shopping mall
concourse now serving office space.



Classroom Renderings:
Created for a charter school
exploring converting space at
Allegheny Center to a K-12
school.



Conceptual Design and Renderings

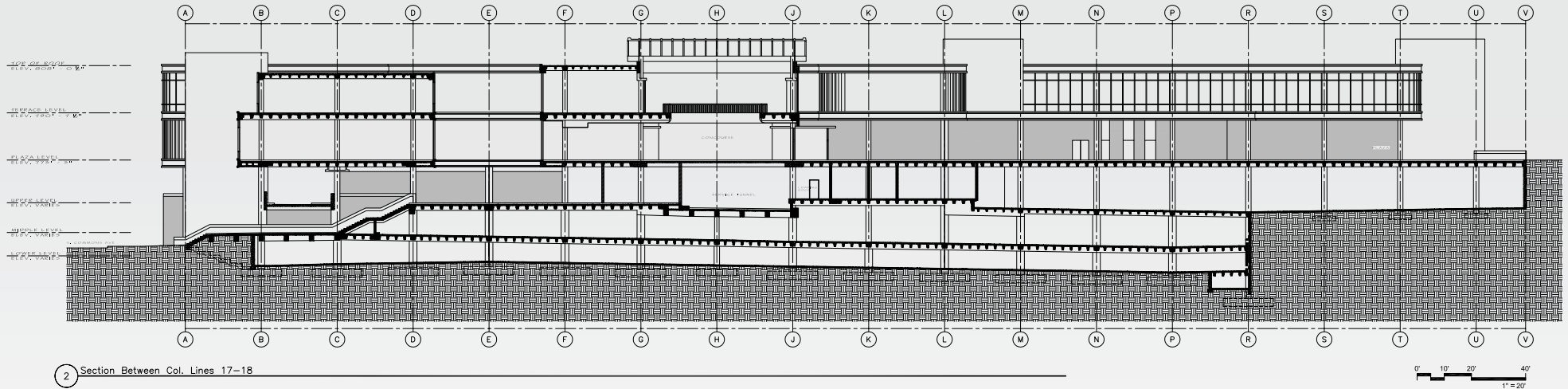


Above: Concept design for an office building expansion, creating a new streetfront entrance.

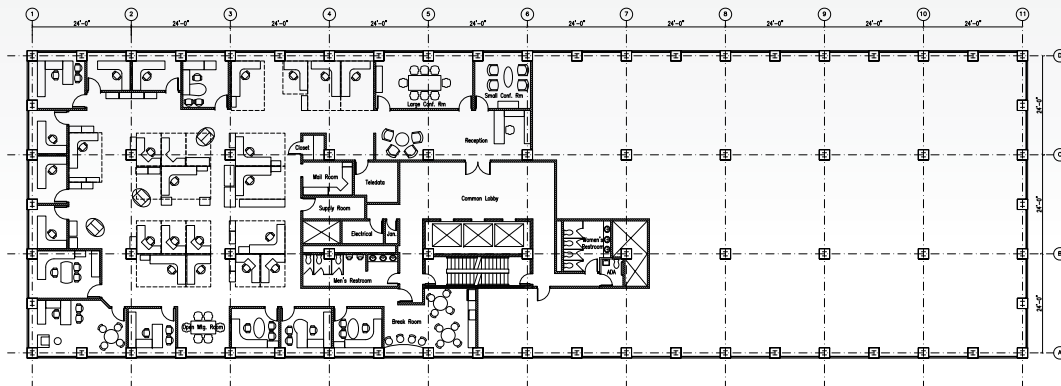


Designs for a new garage-level entrance lobby to an office building





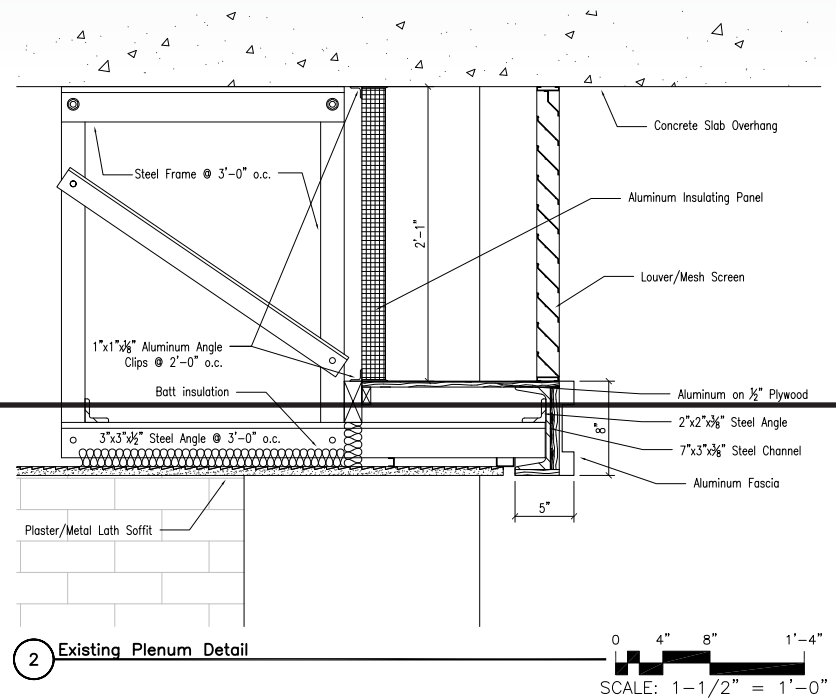
Above: Cross-section through office concourse and parking garage: entered into CAD from existing 1960's hand-drawn plans, incorporating additions and alterations since construction.

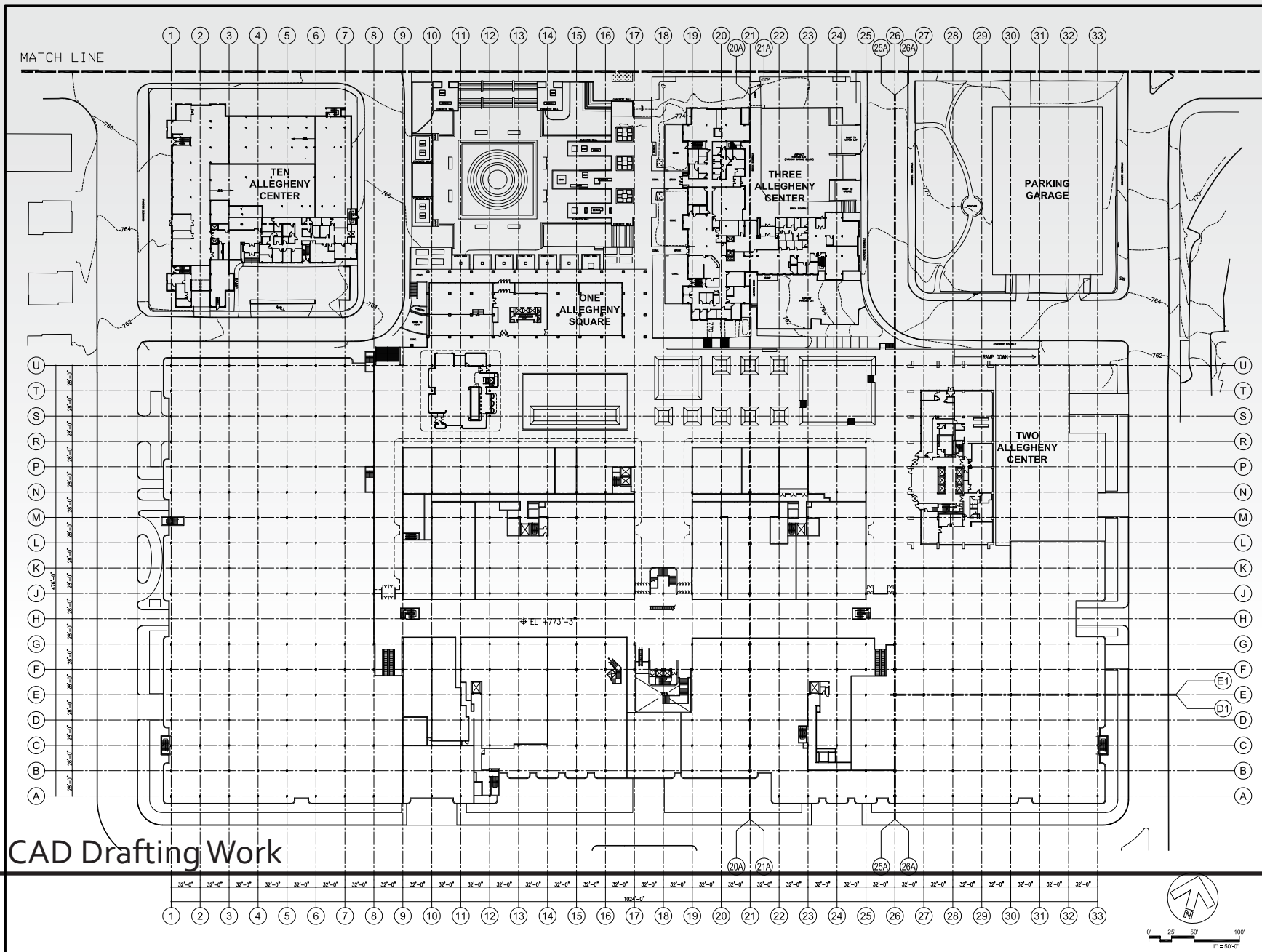


CAD Drafting Work

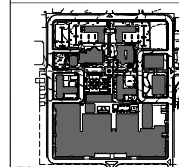
A significant portion of my services at Allegheny Center included CAD drafting. Projects included field-verifying and drafting existing as-built space, finding and correcting errors and out-of-date details in existing CAD drawings, converting original hand-drawn plans into CAD, as well as the drafting of design concepts and office test-fit layouts for potential tenants. CAD work ranged from 2-D plans, to construction details, to full 3-D modeling.

Below: Detail of existing plenum construction, developed with a contractor for use in planning modifications.





NO. DATE REVISION
Implementation



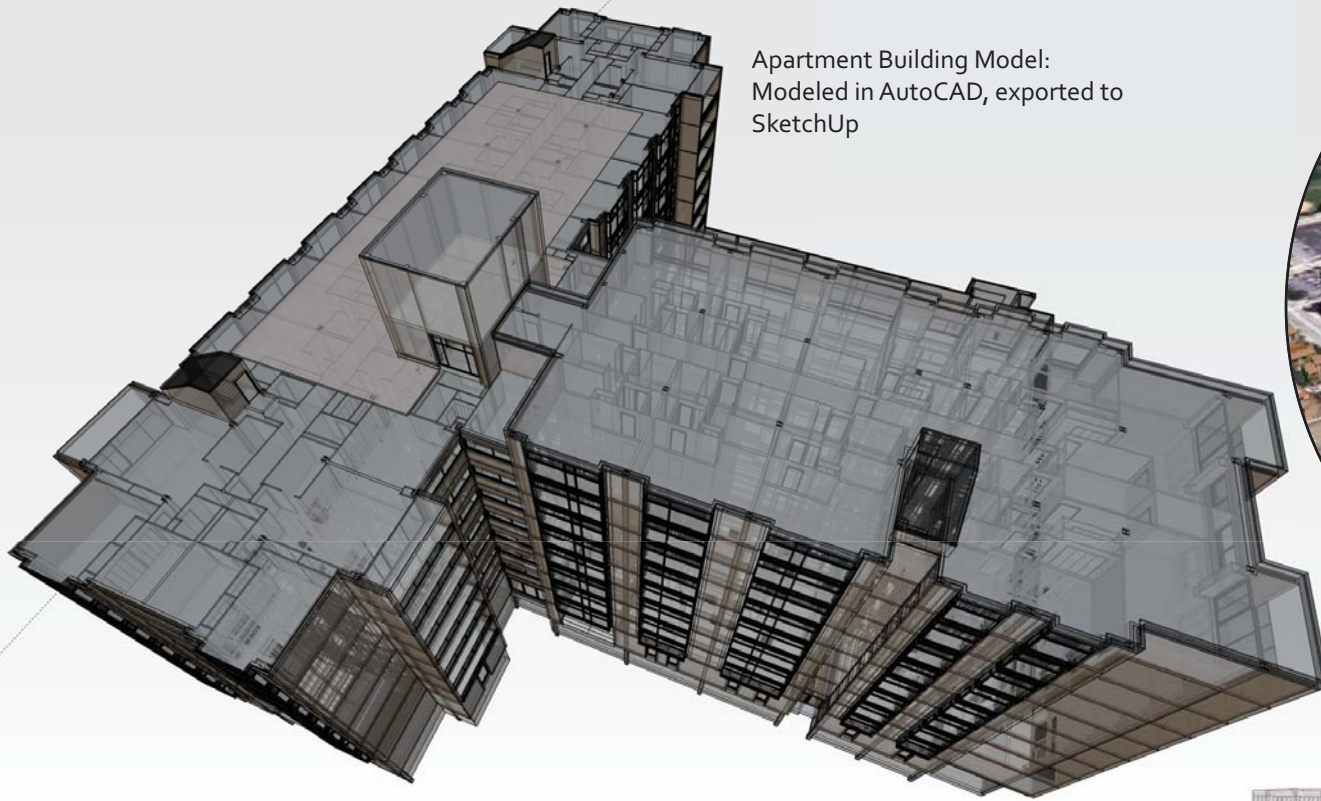
KEY PLAN

Office Concourse
Plaza Level Plan

DRAWING TITLE

DRAWN BY: SCALE: _____
CHECKED BY: PROJECT NO. _____
DATE: Date _____
A-2
DRAWING NO. _____

Comprehensive Site Plan: One of Five Layers - Developed while working for several days with Ehrenkrantz, Eckstut and Kuhn Architects in their New York Office, this site plan incorporated all existing CAD plan drawings for each building in the Allegheny Center complex into a single, composite drawing. These drawings proved invaluable to both the building owners and outside contractors, allowing for easier understanding of the buildings' spatial relationships.



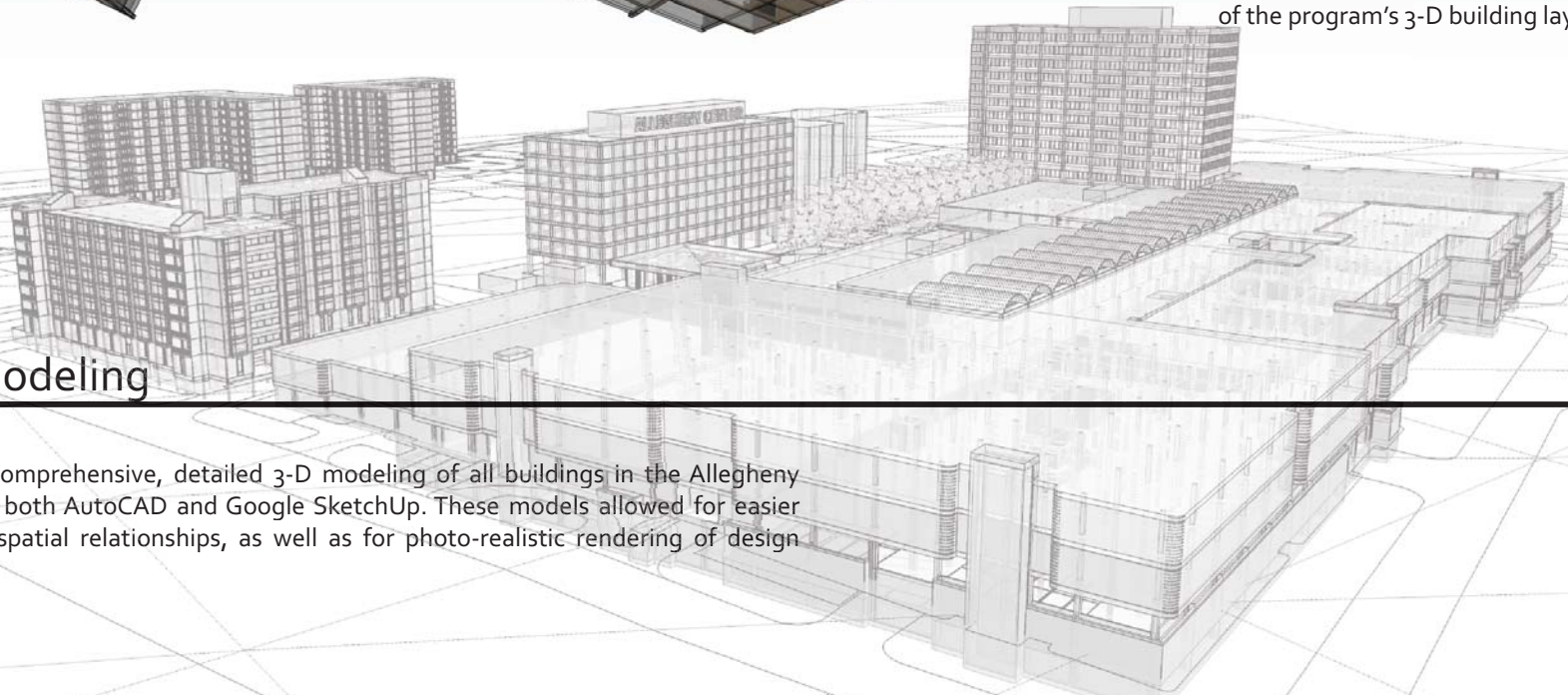
Apartment Building Model:
Modeled in AutoCAD, exported to
SketchUp



Google Earth Model:
The complicated building complex had not yet
been modeled for Google Earth - a simplified
version of the model below was accepted as part
of the program's 3-D building layer (above).

3-D Digital Modeling

My services included comprehensive, detailed 3-D modeling of all buildings in the Allegheny Center complex, using both AutoCAD and Google SketchUp. These models allowed for easier understanding of 3-D spatial relationships, as well as for photo-realistic rendering of design concepts.



Comprehensive interior/exterior SketchUp model of all buildings in the complex.