

Team Members

Faculty Advisor: Dr. Ahmed C. Megri

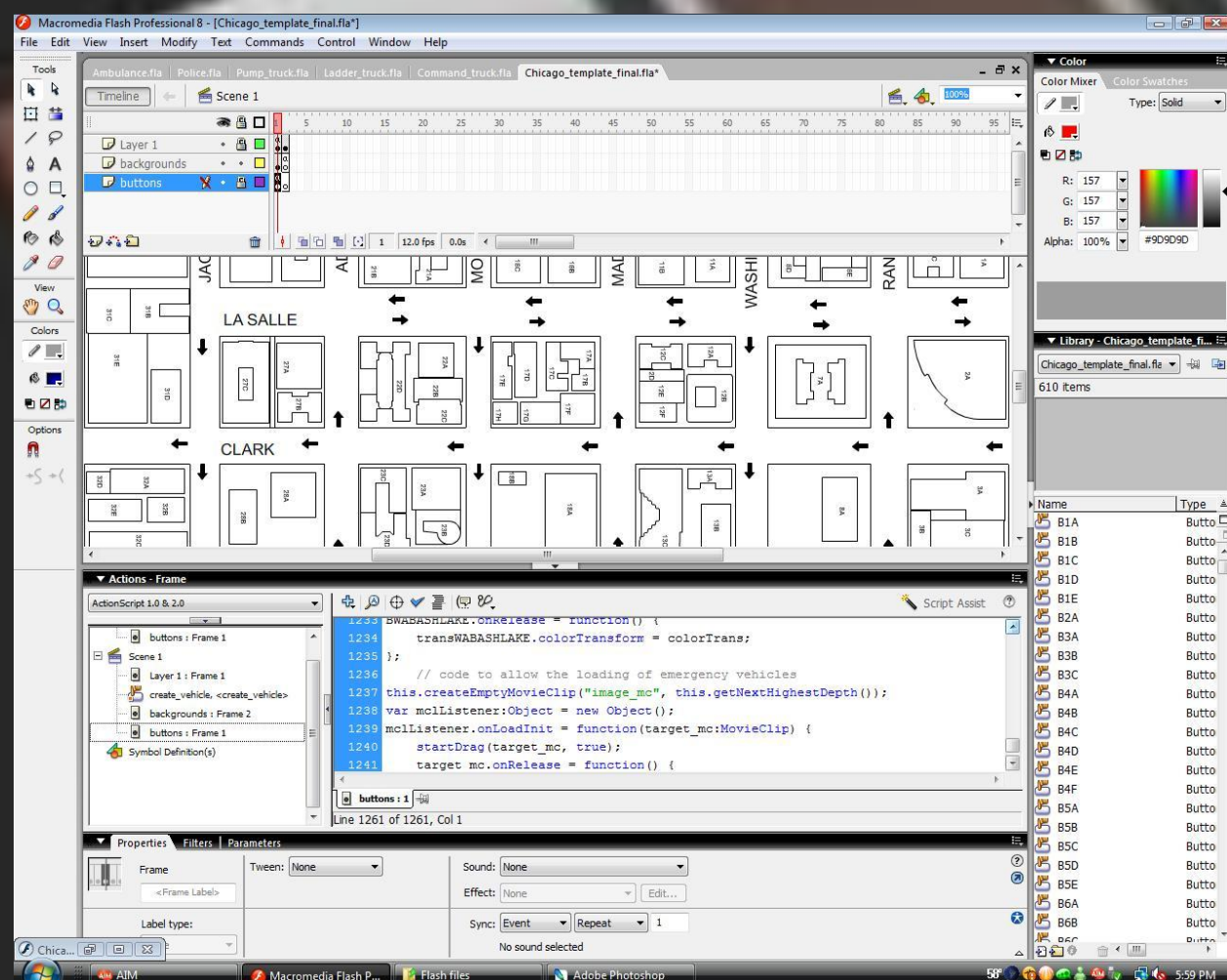
Students:

Jodi Balido	Brandon Macklin
Grahm Balkany	Oscar Martinez
Dan Sochor	Laluce Mitchell
Mary Cyriac	Dan O'Brien
Hana Fakhouri	David Parry
Dung Luu	Homero Rios
Sonya Martin	Mike Brassil
Donald Myers	Marco Trusewych



Flash Software:

Some screenshots of the programming Interface.

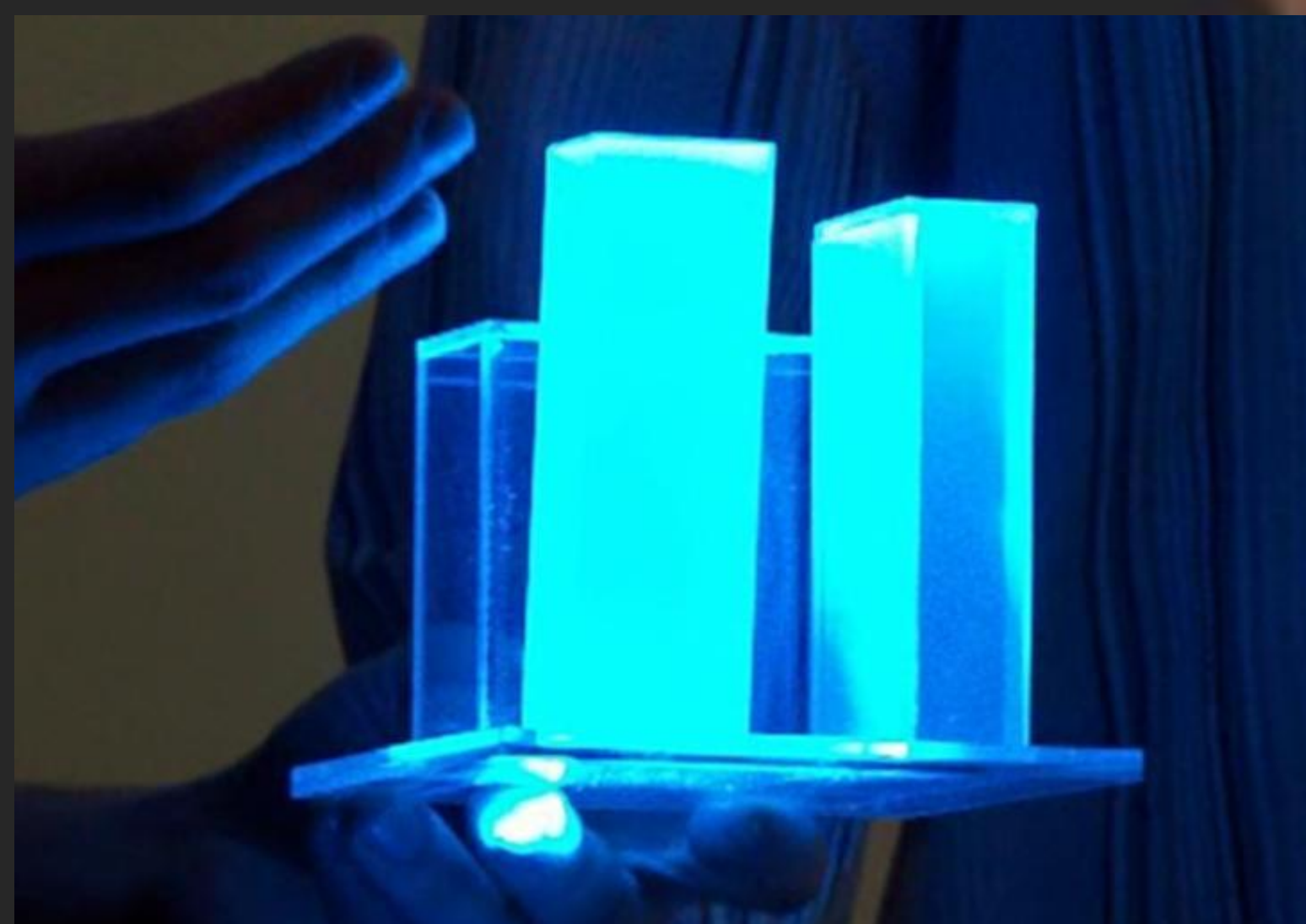


Simulation user input and program editing.



Simulation demo in phase of programming.

Model Testing:



Acrylic models undergoing tests. The final model will have similar appearance as the simulation is projected from under the city base. Other tests were conducted on the models, evaluating structure, stability, etc.

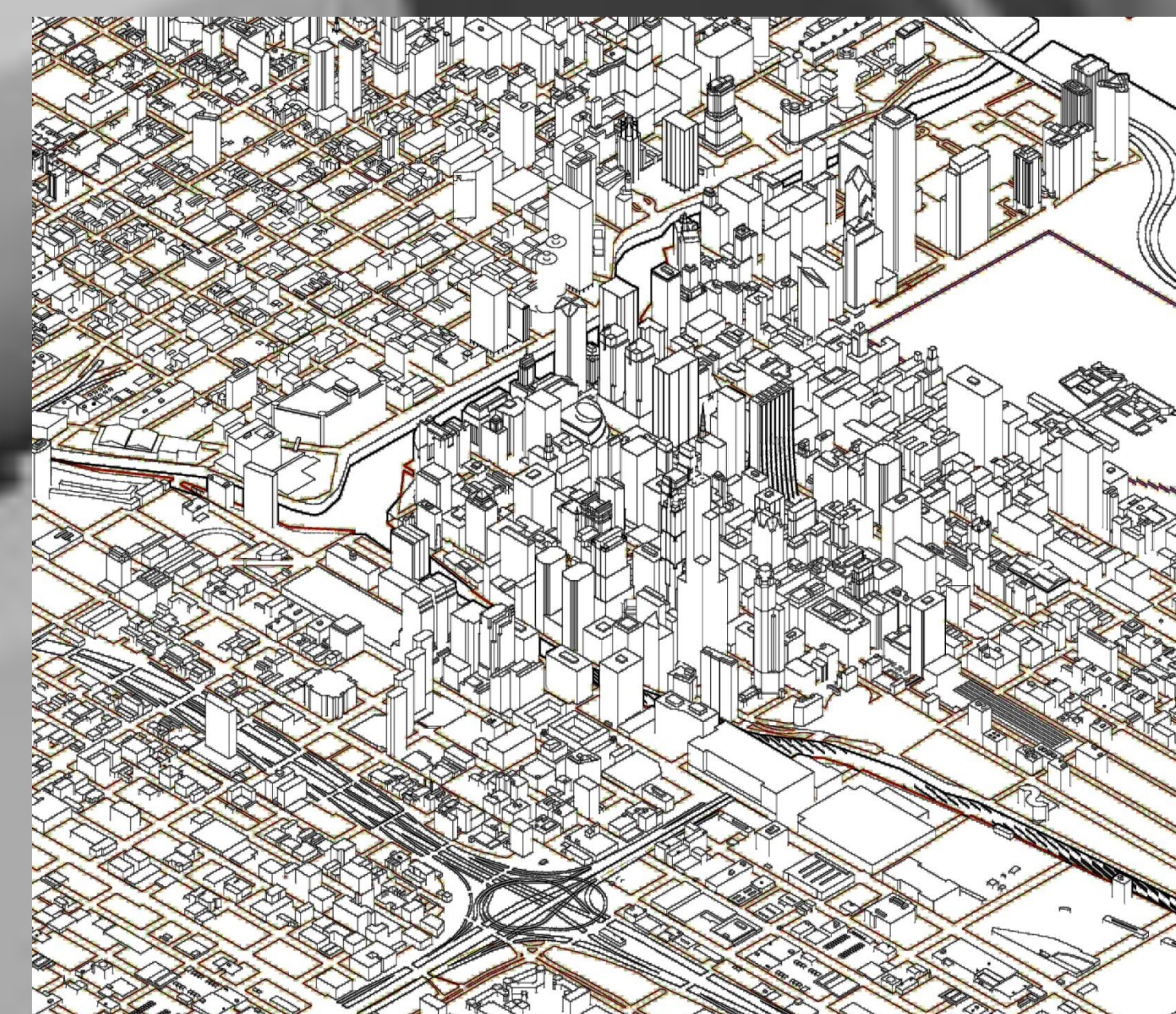
I PRO 317 Spring 2008

Design & Build Chicago Scale Model for Dynamic Disaster Simulation

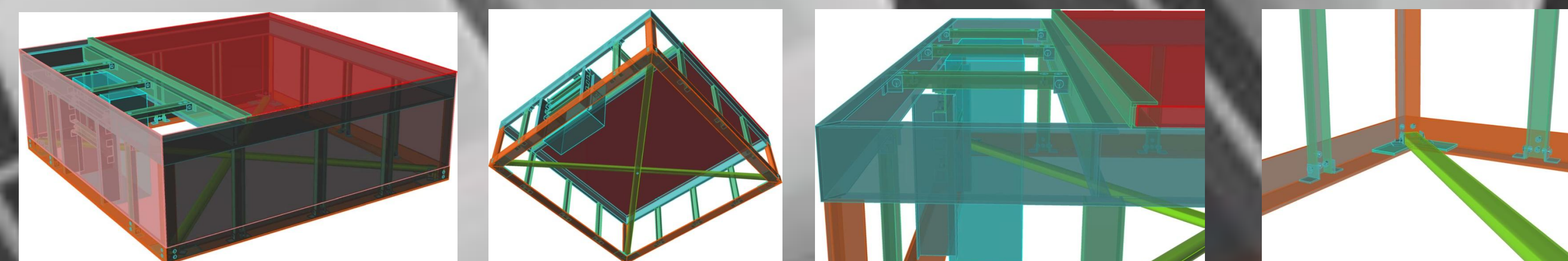
Concepts Explored:

- Identification of the scale, materials, technologies, and strategies of construction
- Physical mapping and computer modeling of the downtown built environment
- Design of the physical model and computer/electronic components
- Construction of reduced-area mock-up for final approval by the City of Chicago
- Familiarizing Fire Department Personnel with Target Area
- Identifying Problematic Scenarios
- Illustrating a Vast Array of Potential Disasters
- Simulating Disaster Response in Real-Time

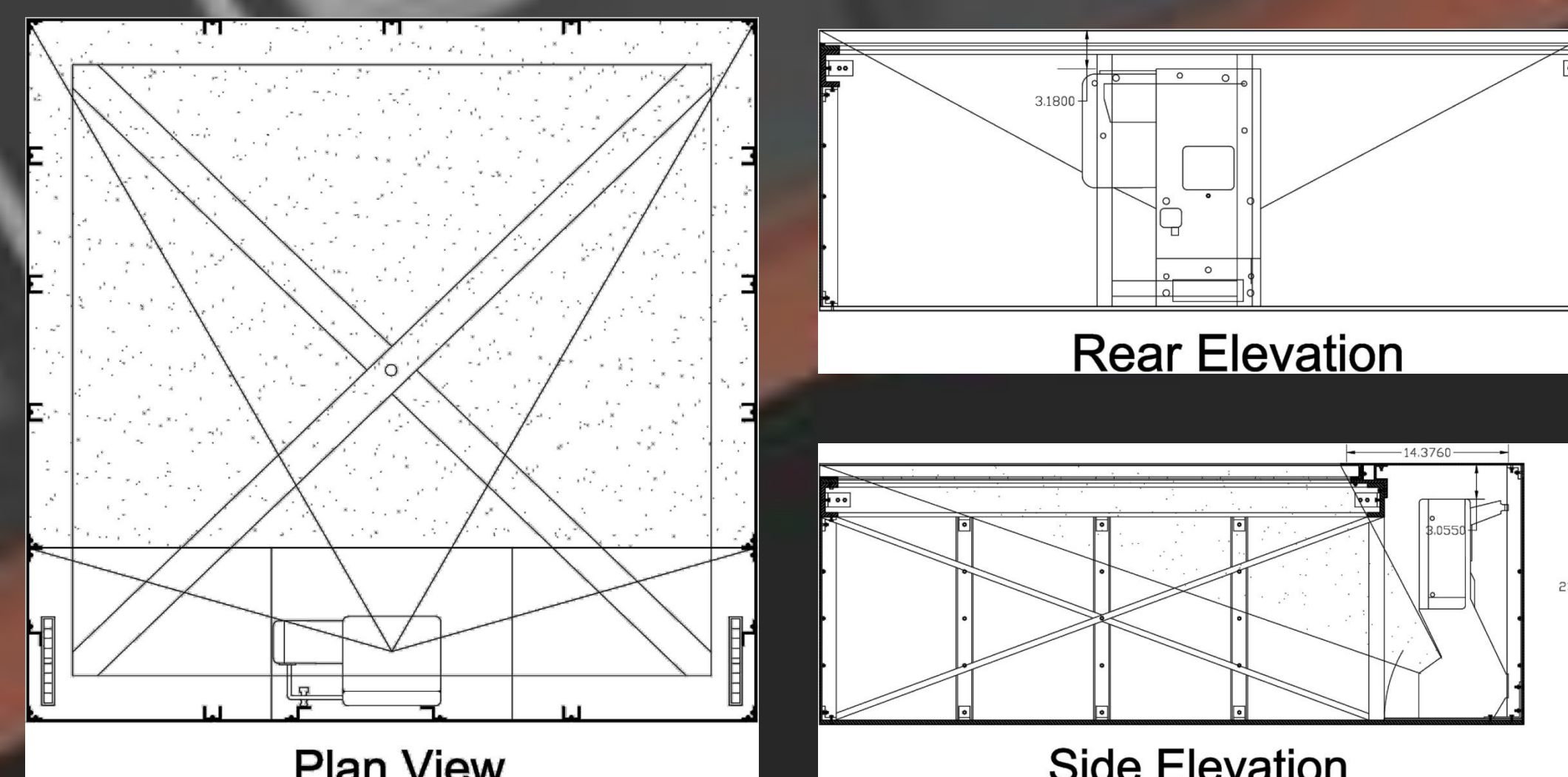
CAD Drawings:



[To the left] This is a screenshot from an AutoCAD file showing the entire downtown area. Using sophisticated computer modeling and dimensioning methods, the Information-Architecture team was able to accurately scale Chicago's intricate and unique buildings in order for a mathematically proportioned city scale model. This information was used and applied to the building of the model.



[Above] Here are some screenshots for the design of the base of the model. These designs were produced using Rhino, a powerful CAD tool used for 3-D modeling.



[To the left] Using AutoCAD, initial designs for the model base were drawn. The projector housing and angle of projection were considered in these designs.



Basic Organization and Tasks:

The group of sixteen is split up to seven groups.

Project Finance / Orchestration

Mary Cyriac
Daniel Sochor

Information-Architecture

Dung Luu
Laluce Mitchell
David Parry

Symbols/ Representation

Oscar Martinez
Homero Rios

Material Collection

Daniel O'Brien
Marco Trusewych

Information-Programming

Sonya Martin
Donald Myers

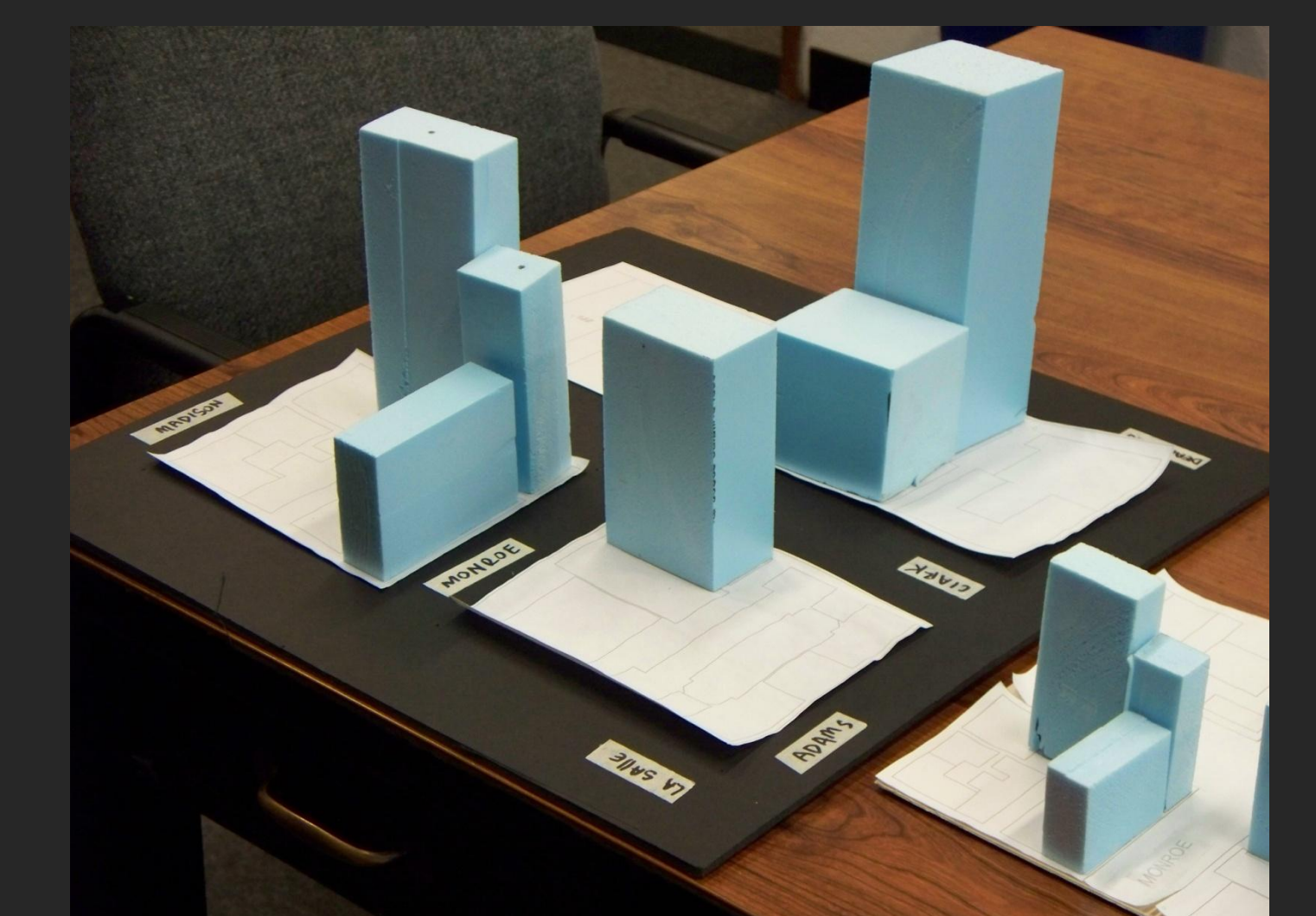
Scenarios

Jodi Balido
Hana Fakhouri
Brandon Macklin

Material Testing

Grahm Balkany
Mike Brassil
Daniel O'Brien

Scale Models:



Using the capabilities of computer modeling along with various architectural techniques, buildings and streets were scaled appropriately for the city model.