



ARCH 2330

BUILDING TECHNOLOGY III

II

Assignment Name:

Zoning Analysis Diagrams & Calculations (Z-101, Z-102)

Computer Program(s):

AutoCAD, Revit, Web Browser, Blackboard & OpenLab

Student Learning Objectives:

Upon successful completion of this assignment, the student will:

1. Develop an understanding of NYC zoning codes and be able to interpret for a specific location.
2. Construct scaled site plan showing block and lot site and format on Titleblock.
3. Construct scaled Isometric drawing showing zoning

Student Skills Learning Objectives: (AutoCAD)

Upon successful completion of this assignment, the student will:

1. Be able to draw an isometric line drawing using isometric grids
2. Be able to draw an isometric 3d model using the Flatshot command.
3. Be able to add annotation and dimensions
4. Understand the use of Paperspace/Modelspace and External References
5. Under the use of layers, lineweights and linetypes and the use of LTscale & PSLtScale

Assessment:

To evaluate the student's achievement of the learning objectives, the professor will do the following:

1. Evaluate the student's site plan and zoning diagrams drawings.
2. Evaluate the students use of annotation including drawing titles, notes and dimensions.
3. Evaluate the student's understanding and correct interpretation of relevant zoning regulations.
4. Drawing will be evaluated on its own and as part of the AutoCAD drawing set submission.

Project Description:

Students will develop a zoning study for the project site incorporating factors including but not limited to OSR, FAR, Setbacks, Sky Exposure Plane, Street wall requirements, available bonuses, use/type, etc. Students will be required to read and identify NYC Zoning code and determine what is relevant to the project and will produce an accurate zoning sheet for their drawing set.

Process:

1. Work as a team to locate the project site using Oasisnyc.net
2. Work as a team to identify all relevant zoning related resources at NYC.gov.
3. As an individual complete all necessary drawings including but not limited to zoning map, environs and site plan, site sections & isometrics indicating building envelope.
4. As an individual site all zoning code sources and include these in your submission.
5. Complete all necessary calculations and present in an organized fashion. (OSR, FAR, Site Area, Buildable Area). Account for any existing buildings to remain.
6. Post completed sheet as a pdf and as a drawing file by the assigned deadline & add description.
7. When your building design is complete, add isometric and complete all calculations.

References:

1. NYC Zoning <http://www.nyc.gov/html/dcp/html/subcats/zoning.shtml>
2. Zoning Diagram Guide http://www.nyc.gov/html/dob/downloads/pdf/zd1_guide.pdf
3. Oasis NYC Maps <http://oasisnyc.net/map.aspx>