**Site Zoning Vignette:**
1 hour total
1 problem with 2 tasks

**Problem:**
- Delineate areas suitable for construction of buildings & other site improvements
- Respond to regulatory restrictions & programmatic requirements
- Define:
  1. Site profile
  2. Maximum buildable envelope based on zoning regulations & environmental constraints

**General notes / Tips:**
- Exact problem w/ single answer
- Follow the program exactly
- Be aware of sun exposure planes; corner of building will likely be clipped
- Use sketch pad
- Establish building limits
- Use grid
- Use ortho
- Note benchmark & accurately locate
- Check math
- Use full cursor
- Note scale of grids as vertical and horizontal may differ
- Use measure tool to double check dimensions
- To draw angled lines draw sketch line & rotate
- Use circles for non-linear setbacks
  - Software won’t draw circles so use straight lines to follow curved setbacks

**Task One: Plan**

**Process:**
1. Note all relevant requirements from program
2. Sketch all setbacks – rear, side & front yard
3. Draw Surface Improvements:
   - Reference lot lines
   - Can go over easements
4. Draw Buildable area:
   - Cannot build in easements

**Task Two: Profile**

**General Notes:**
- Reference the section line given
- Project points down
- Draw grade profile at the section line; be aware of swales / ridges
- Do not retrace grade
- Do not go underground
- Benchmark is given by the program
- Reference height restrictions for the overall property and for certain areas / zones
- Note the sun exposure plane-
  - Where does it start?
• What angle?
  o Use sketch lines – angle is shown at the bottom of the screen; draw as close to possible to give angle; extend out to be more exact
• Draw the building profile at the section line

Process:
  1. Draw existing grade by dropping points on the grid with straight sketch lines
  2. Connect the points with the draw grade command
  3. Using sketch tools draw required setbacks, easements, height restrictions; benchmark @ both sides of the section & solar access planes
  4. Double check
  5. Locate point in space where solar access plane initiates – zoom in & be as accurate as possible
  6. Outline maximum volume following the guidelines
  7. Double click to end the profile