

Project Description

In this exercise, you will go through the motions of obtaining site maps (aerial, topography), documenting existing conditions, and proposing a simple design for a waterfront park. You will use GIS and Google Earth online to obtain site maps, learn how to adjust scale, use basic tracing and hatching techniques to document site conditions. You will also employ these tools to create a proposed design, which shall be a viewing deck near the 12 mile park, render construction details, and assemble a design packet. You will also be introduced to AutoCAD / Adobe interoperability and how to export a CAD basemap into Adobe for rendering.

Your proposed design: your waterfront viewing deck should be very simple, not more than 1500 square feet. You will provide shade, plant material, and seating in your design. You need not justify every design decision you take, but you will think about how people enter and exit your deck, and how your deck connects with water and land.

Deliverables

An 11 x 17" design packet in print to be pinned up in class and in pdf format submitted on Canvas. Files should be named like so:

- Formatting: Your deliverables will be printed for pinup AND submitted on Canvas. Compile your work in a single pdf, named like so:

**2022002 _ LastName FirstName ClassName
Exercise 02.pdf**

Ex: 202202 _ Waits Tom LARC1580 Exercise 01.pdf

Your design packet should contain the following:

- Existing Conditions / Site inventory: Plan view showing trees, buildings, hardscape, and topography lines. Title block, annotations, north arrows, and scales of your drawings.
- Proposed design: Plan view and at least one section. Show infrastructure if any (deck, stone pathway, etc.), trees, seating, water feature if any, and proposed topography. Title block, annotations, north arrows, and scales of your drawings.
- Two or more construction details for rail, trees, seating, stairs, water feature, or other in your site.

Learning Goals

- Ability to navigate ArcGIS online, compiling and downloading data, and discerning the difference between raster and vector data layers.
- Performing simple tasks in Autodesk, including scaling references, tracing contour lines, structures, and trees, and creating annotative text.
- Applying best management practices for pdf and printing (setting up paper space, applying lineweight using the CTB file).
- Understanding interoperability between CAD, Adobe, GIS, and Sketchup and creating a healthy workflow between these programs.

Project Schedule for Module 02: Construction Documents

Date	Day	Topic Covered	Programs	Class content / Items due
9-Feb	WED	Download CAD, get access to ArcGIS online, navigate Google Earth	GIS online	Activate your Autodesk Educational License, Activate your GIS license.
14-Feb	MON	Obtaining and downloading data layers, Tracing existing conditions	GIS online, CAD	
16-Feb	WED	Tracing existing conditions	CAD	
21-Feb	MON	Proposed site plan and details	CAD	
23-Feb	WED	Setting up your paper space.	CAD	
28-Feb	MON	working session	CAD	
2-Mar	WED	Crash session 02: Trace a site plan in 60 minutes	CAD	Crash session 02
7-Mar	MON	Working session	CAD	Download Sketchup
9-Mar	WED	Exporting to Adobe and Sketchup	CAD / Adobe / Sketchup	
11-Mar	FRI	no class		Exercise 02: Viewing deck

Grading schema

Item	Criteria for full grade	Percentage
Completion and timeliness	Everything is submitted on time, all the required elements are included. Formatting is correct.	10%
Development curve/ Digital Workflow	Work demonstrates experimentation and innovation. Student developed their graphic skills efficiently. Decisions in analogue and digital programs were sound and efficient to create cohesiveness and optimize quality.	20%
Model Quality	Existing conditions and proposed design are logical and neatly created in model space. Site is reasonably correctly scaled. Layers are used to optimize design and workflow.	30%
Construction documents	Lineweight is appropriate, the CTB file was correctly used. Layout is organized and consistent. Scales, north arrow, annotations, titles, table of contents are correctly used. Communication of information is thoughtful and of a professional grade.	40%