



4D Animation

expose + resolve problems, project procurement



Scarborough Subway Extension Lawrence and McCowan Station

Toronto, Ontario

4D Animation

ID	Name
3312	Demo Struts ME CL
3290	Demo Struts Platform Level
IP-IPC-LES-STR-1900	CNT0_S200_STBX_BST1_SWC_PL
IP-IPC-LES-STR-2000	CNT0_S200_STBX_BST1_SOB_BL
IP-IPC-LES-STR-1100	NA



4D Animation + Hi-RES Renderings/Video



4D Animation + Hi-RES Renderings/Video



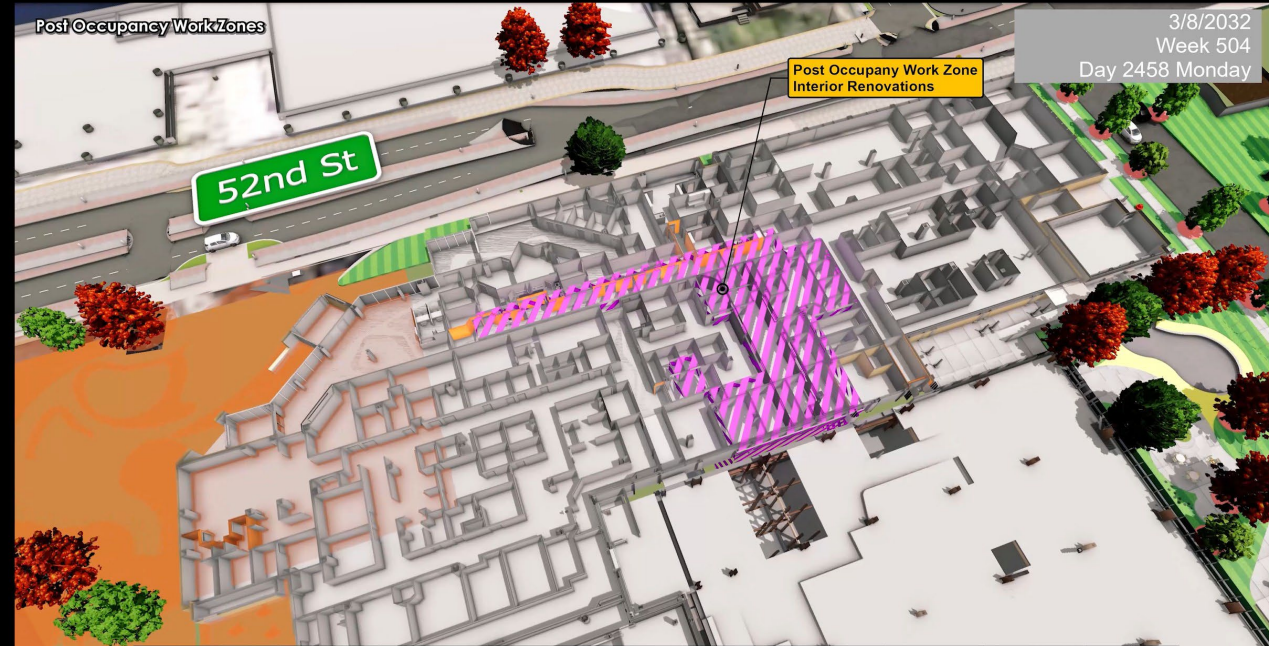
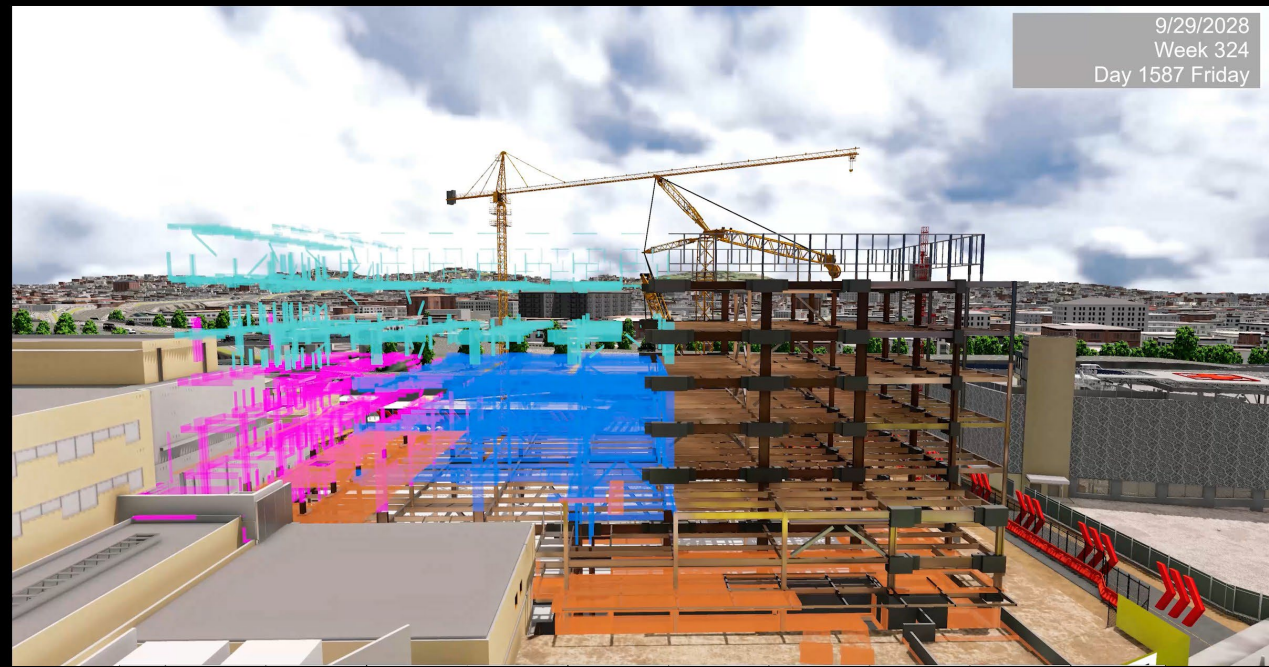


**UCSF Benioff
Children's Hospitals**
Oakland, CA

4D Animation



4D Animation



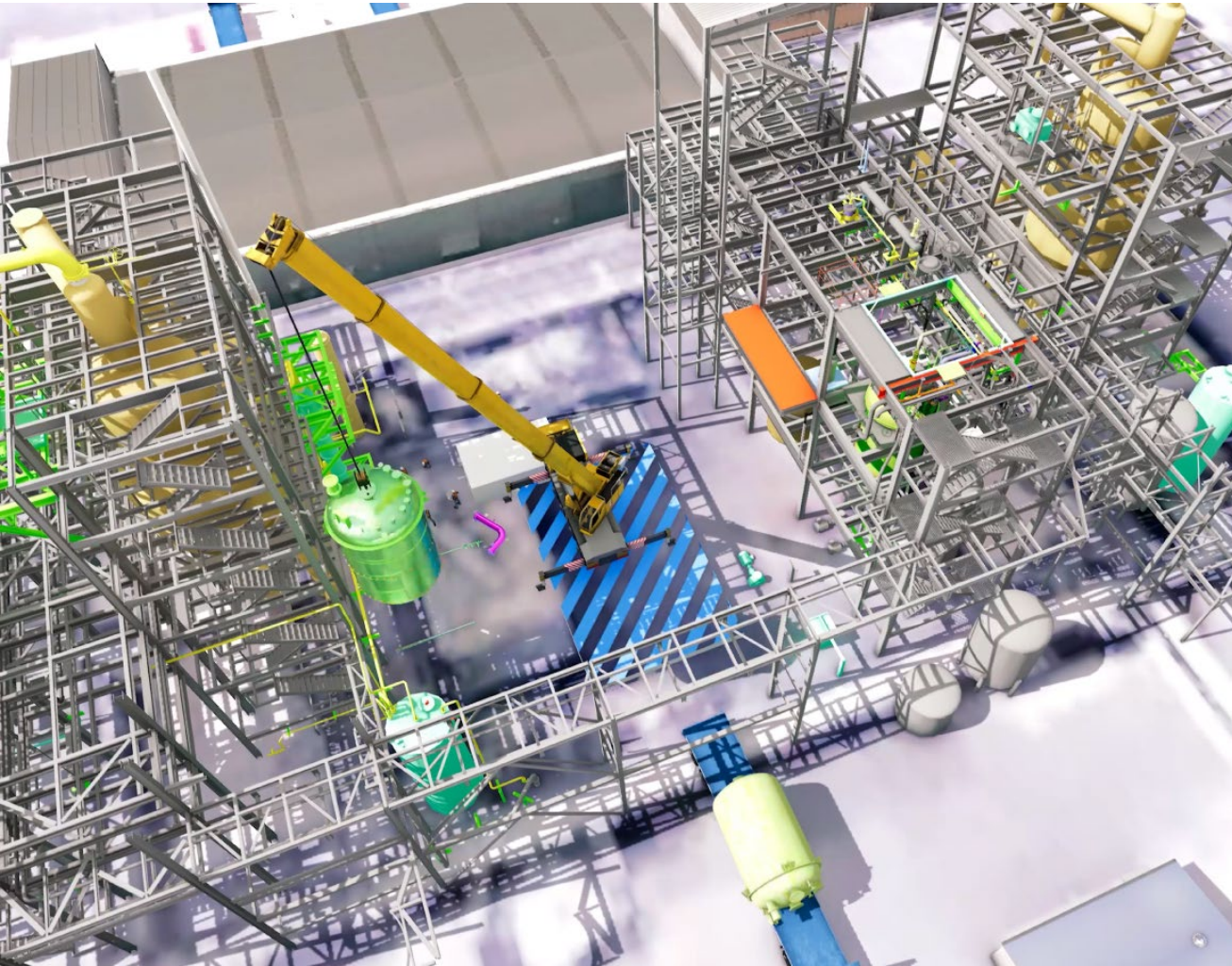
An aerial photograph of an industrial facility, likely a refinery or chemical plant, with a complex network of green lines overlaid on it. These lines represent a lift sequence plan, showing various paths and loops across the site. The facility includes numerous buildings, storage tanks, and piping. The background shows some greenery and a road network.

Bayer Crop Science Luling Site - CT2/CT3 Vessel Replacement

Luling, LA

4D Animation - Lift Sequence Plan

Digital Recreation of the Lift Plan months ahead of time



Digital

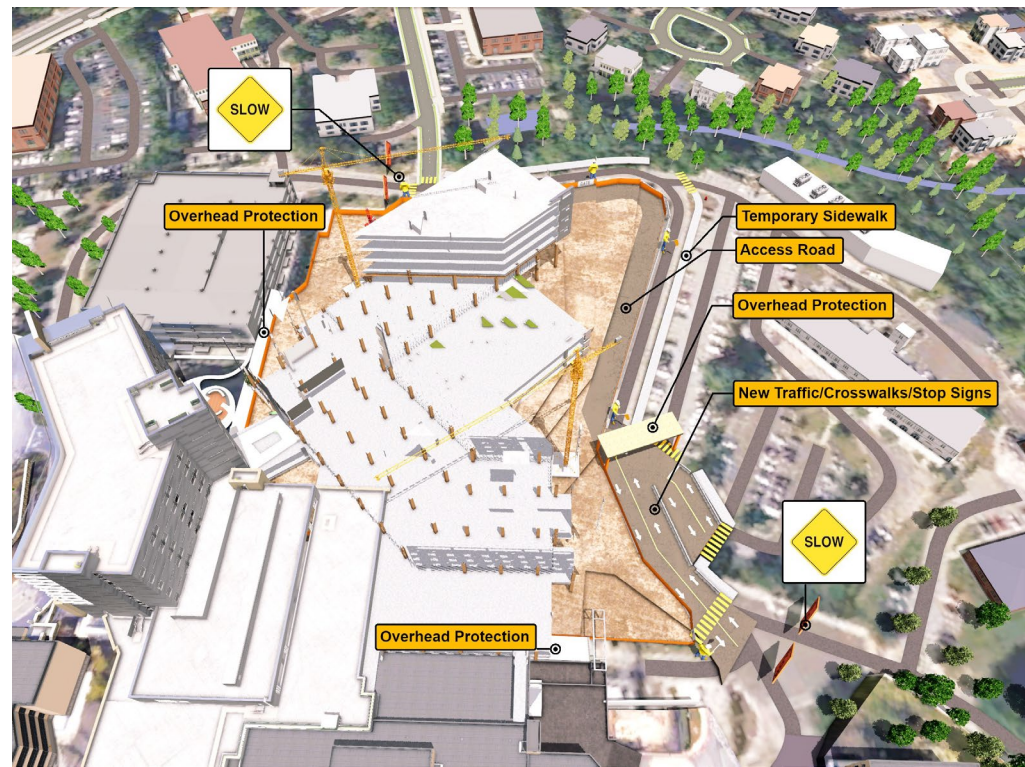
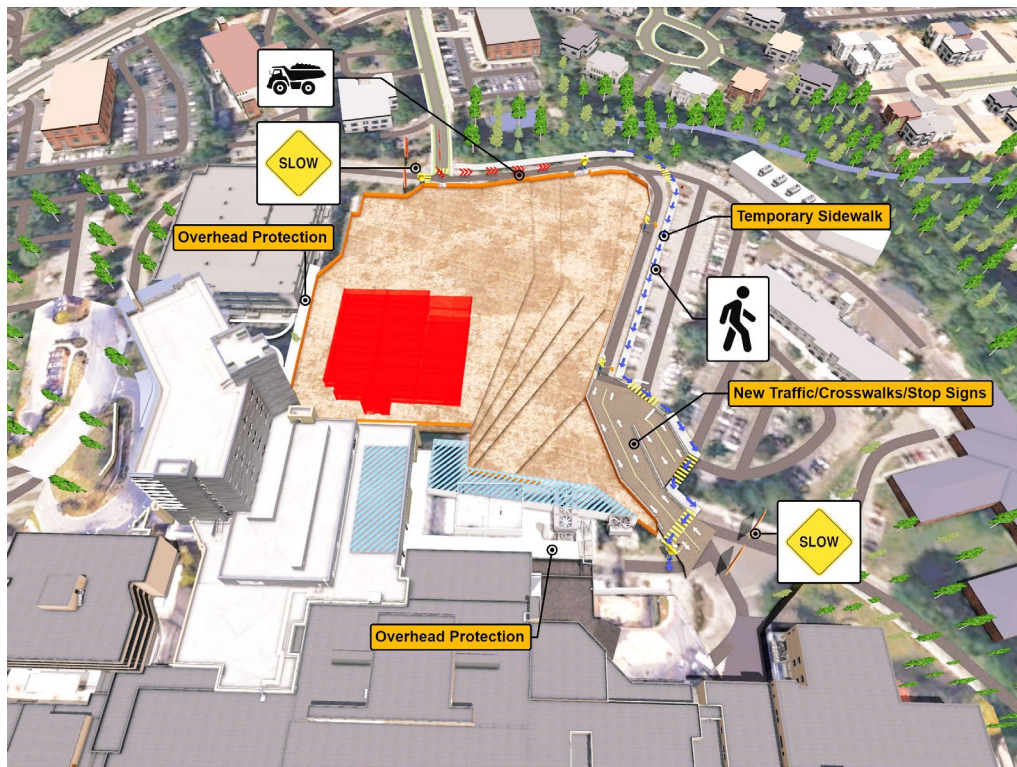
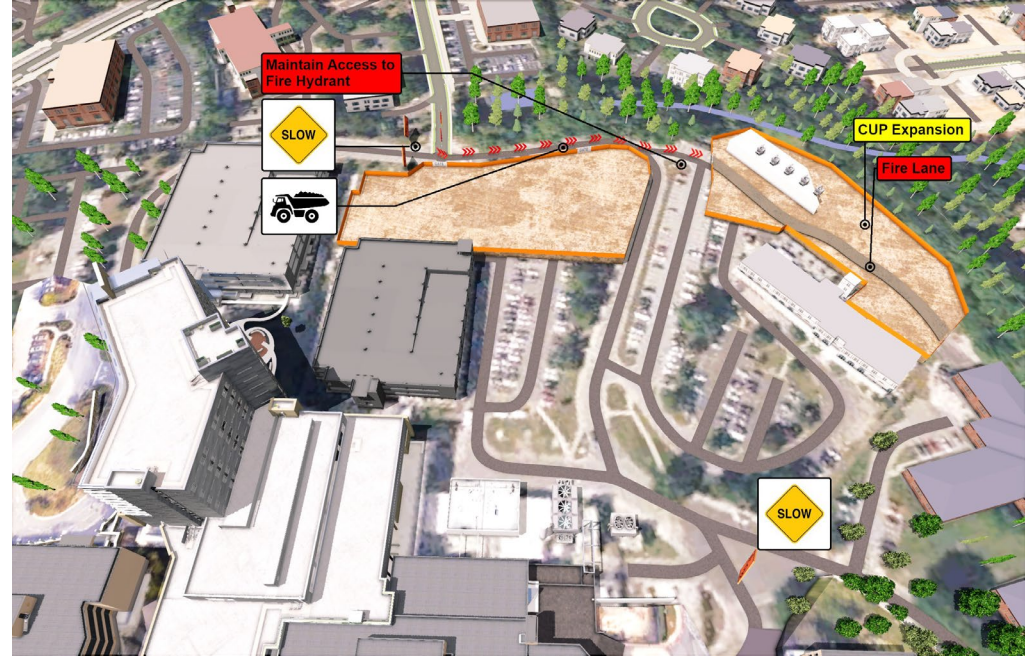
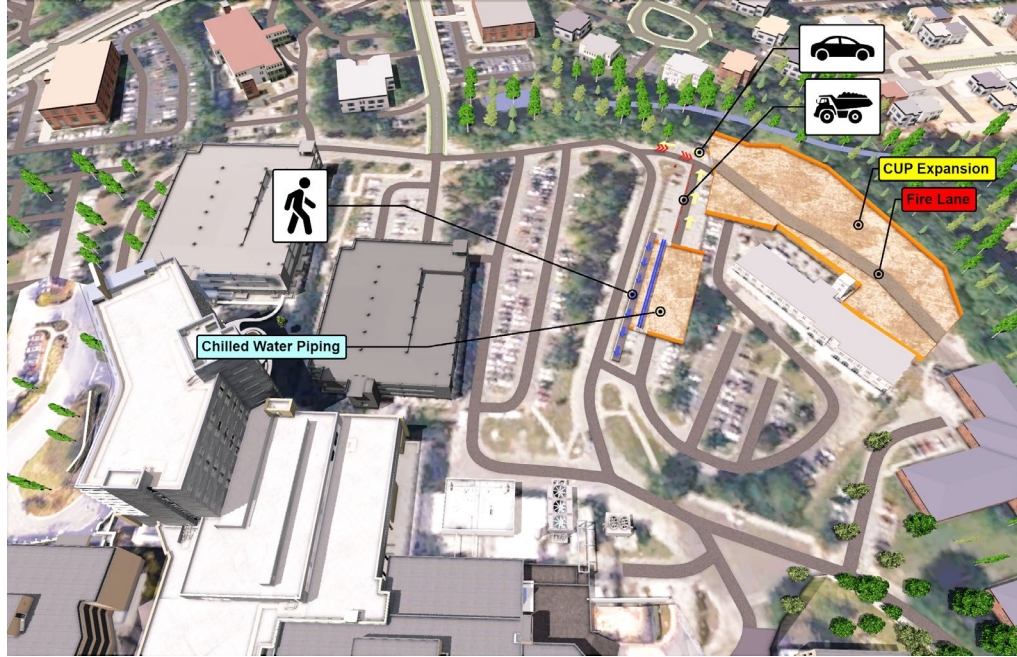


Reality



UNC HEALTH® Rex





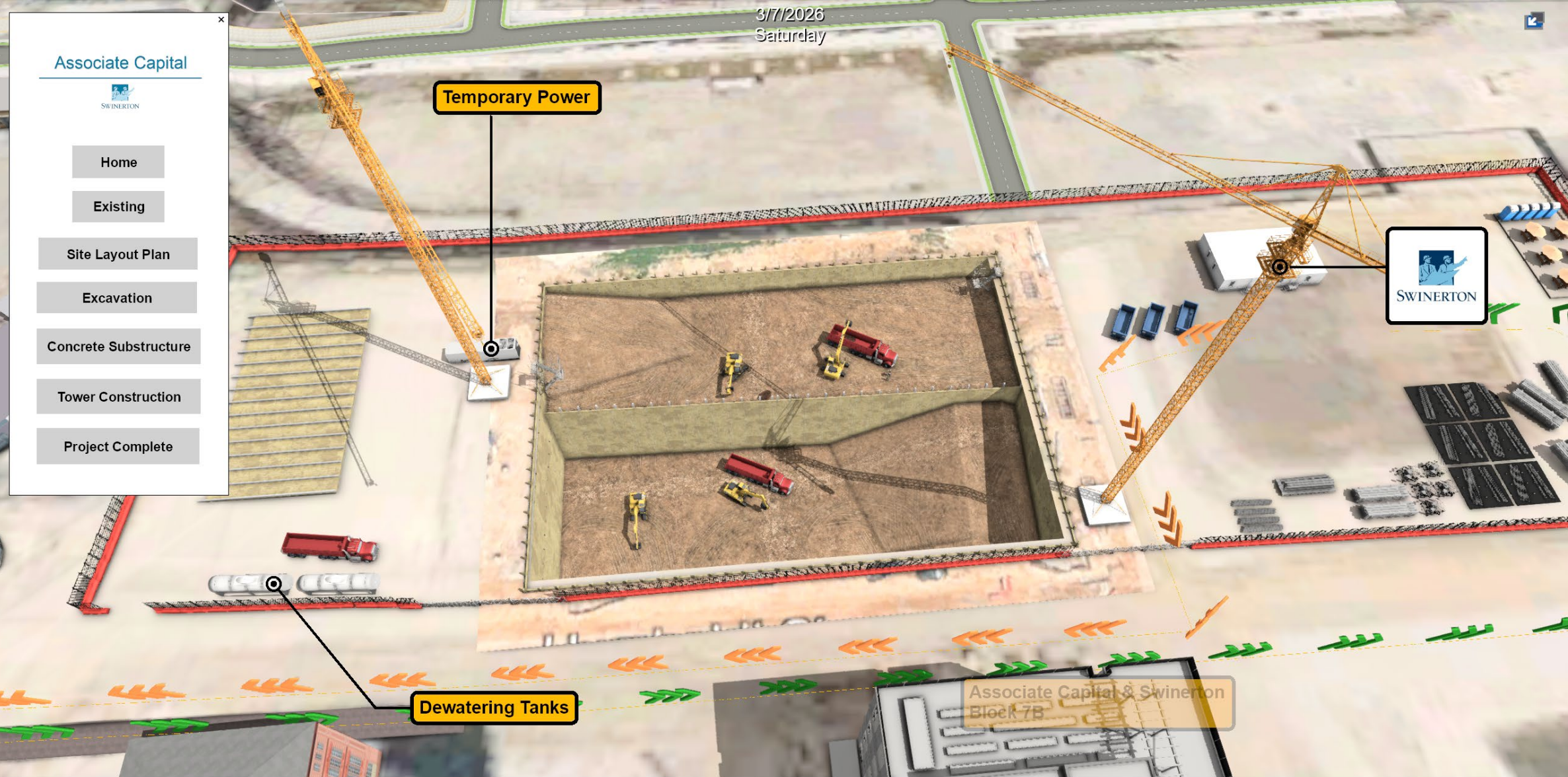


Custom Programmed Environments

digital tool for more than presentations

Custom Programmed Environments

The Custom Programmed Buttons can be edited for specific meeting topics



Associate Capital

SWINERTON

- Home
- Existing
- Site Layout Plan
- Excavation
- Concrete Substructure
- Tower Construction
- Project Complete

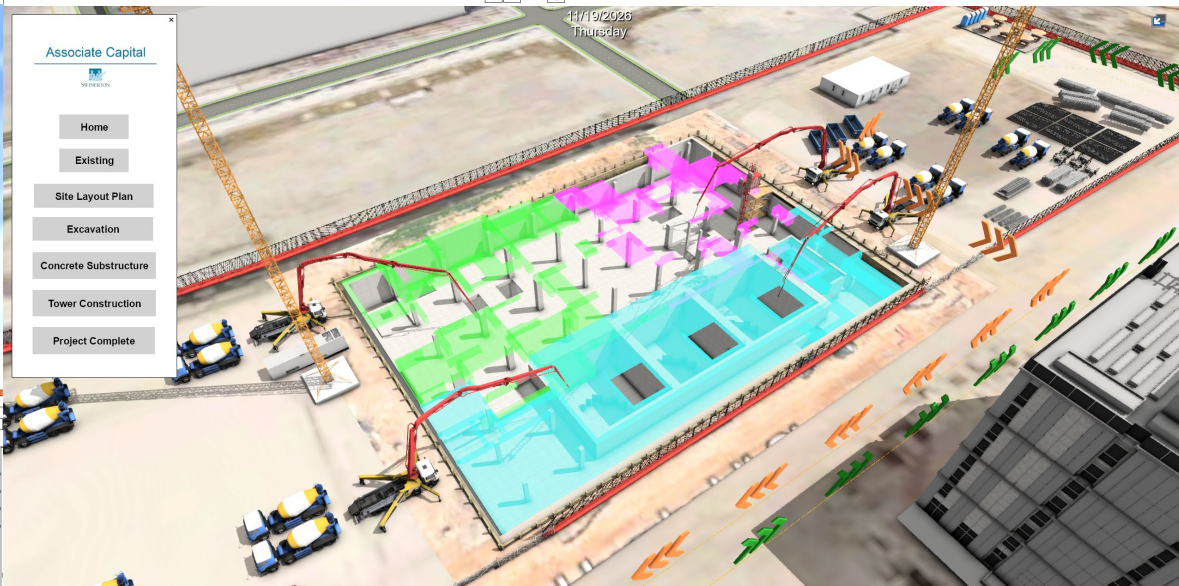
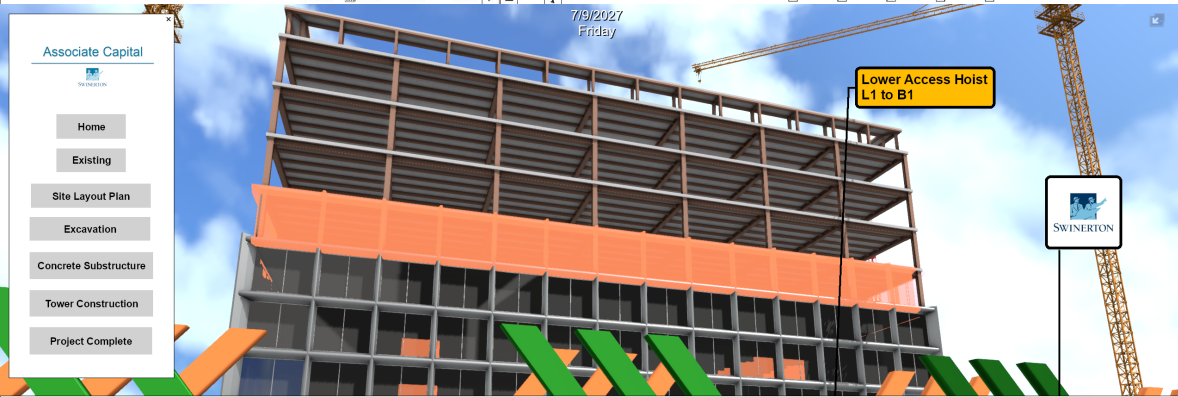
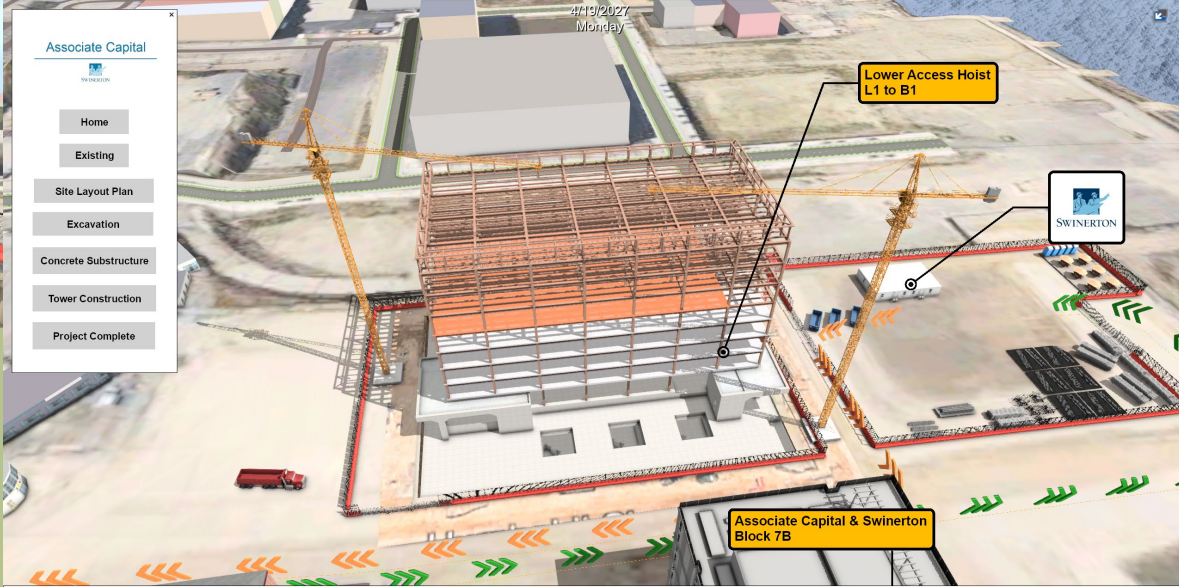
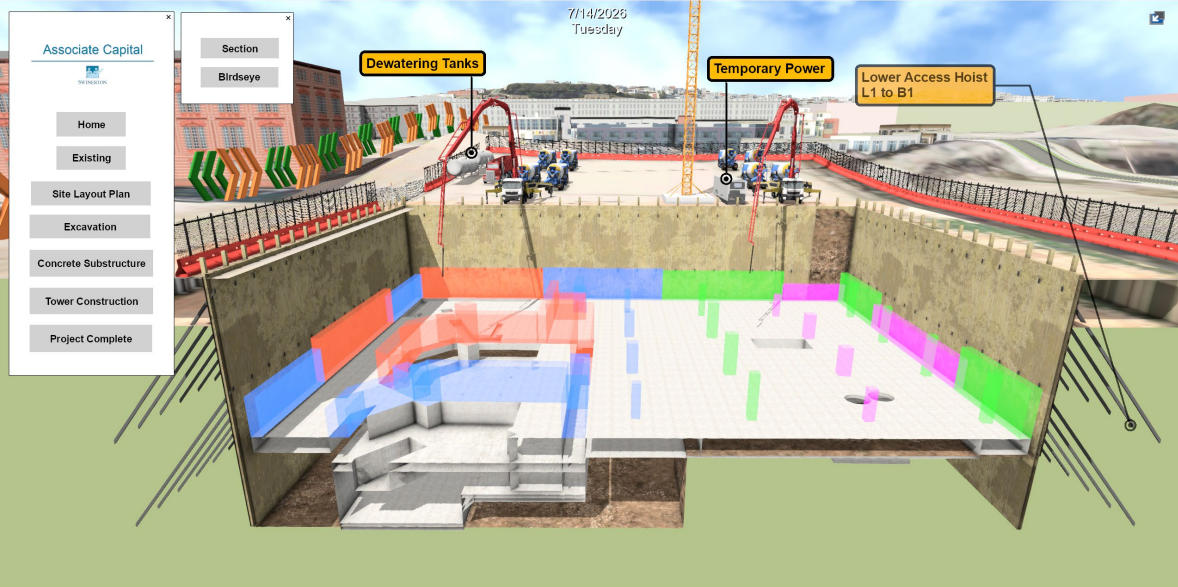
Start 1/21/2019

Day 1 Day 272 Day 544 Day 814 Day 1086 Day 1357 Day 1627 Day 1897 Day 2168 Day 2441 Day 2710 Finish 10/30/2029

Current Date: 3/7/2026 Data Date: 5/29/2025

Show Data Show Time Show Week Show Day Show Week Day

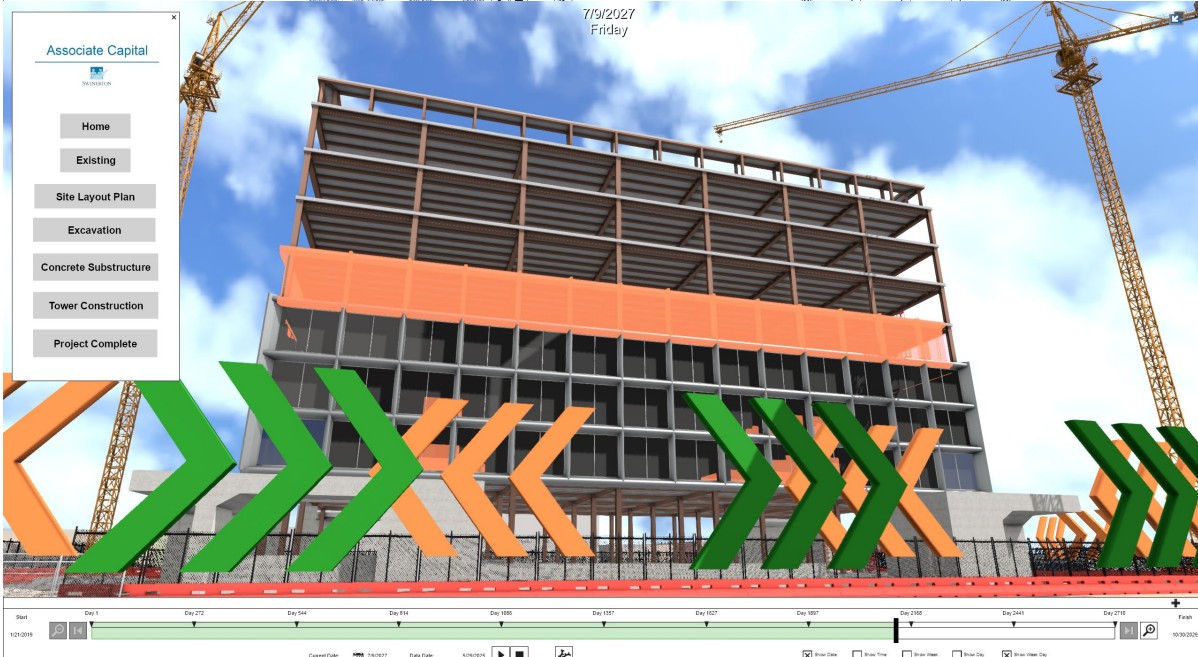
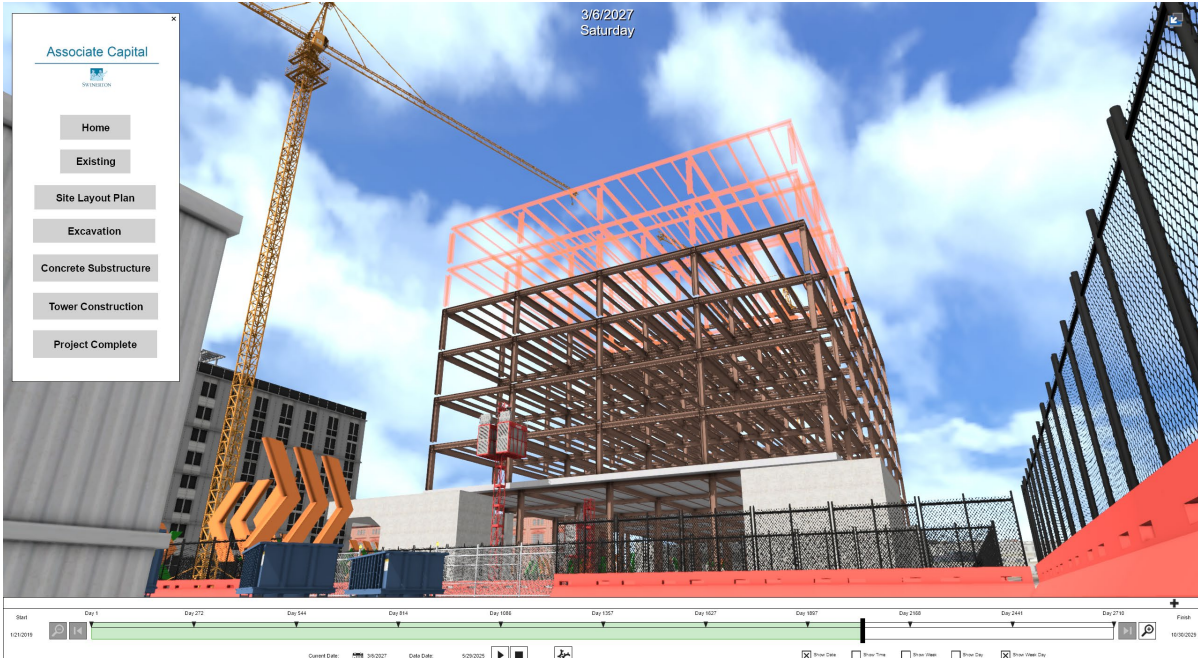
Custom Programmed Environments



ID	Name	Duration	Start	End	Relationship	Duration	Start	End
BCS-44-103	Planning	15 days	3/10/2025	1/27/2026				
Block 2.2 - E	Excavation	180 days	3/10/2027	6/30/2028				
Block 2.2 - E - 1-13	Excavation & Shells	180 days	3/10/2027	6/30/2028				
Block 2.2 - E - 1	PMCC Sanitation Build Out	180 days	4/10/2027	11/10/2027				
Block 2.2 - E - 0	Hot Floor Generator Room	180 days	4/10/2027	12/29/2027				
Block 2.2 - E - 0 (23)	Network	120 days	9/23/2027	11/09/2028				
BCS-44-103	Early Structure	90 days	8/23/2027	12/10/2027				
BCS-44-103	Complete Remaking of Management Offices	20 days	3/20/2028	3/20/2028				



Custom Programmed Environments



Hi-Resolution Renderings

Combined with a 4D Animation these images speak volumes to the client





Digital Training

the next evolution of the safety video





Trench Boxes



Personal Fall Arrest Systems (PFAS)

Synthetic Stitching

Reinforced Plastic

Metal Rings

A = Anchorage Point

B = Body Harness

C = Connecting Device



Guardrails & Railings

>When guardrails are required to protect from a fall hazard (6 feet or greater), they must consist of a top rail, mid rail, and toe board

>The top rail will be approximately 42" high (+/- 3 inches)

>The top rail must support 200lbs of downward and outward force

>The mid-rail must support 150lbs of downward and outward force

>The toe board must be able to support 50lbs of outward force

Top Rail @ 42"
+/- 3"

Mid-Rail

Vertical Support Posts
(placed every 8'-0" Maximum)

Toe-Board



Aerial Lift Safety

>Everyone in an Aerial Lift basket must be tied off using their PFAS.

>The aerial lift must be inspected daily before use

>Must maintain at least 15 feet of clearance from any overhead utility

>You can never climb the rungs of the aerial lift basket



Site Orientation

digital updates of site safety + hazards



Site Orientation

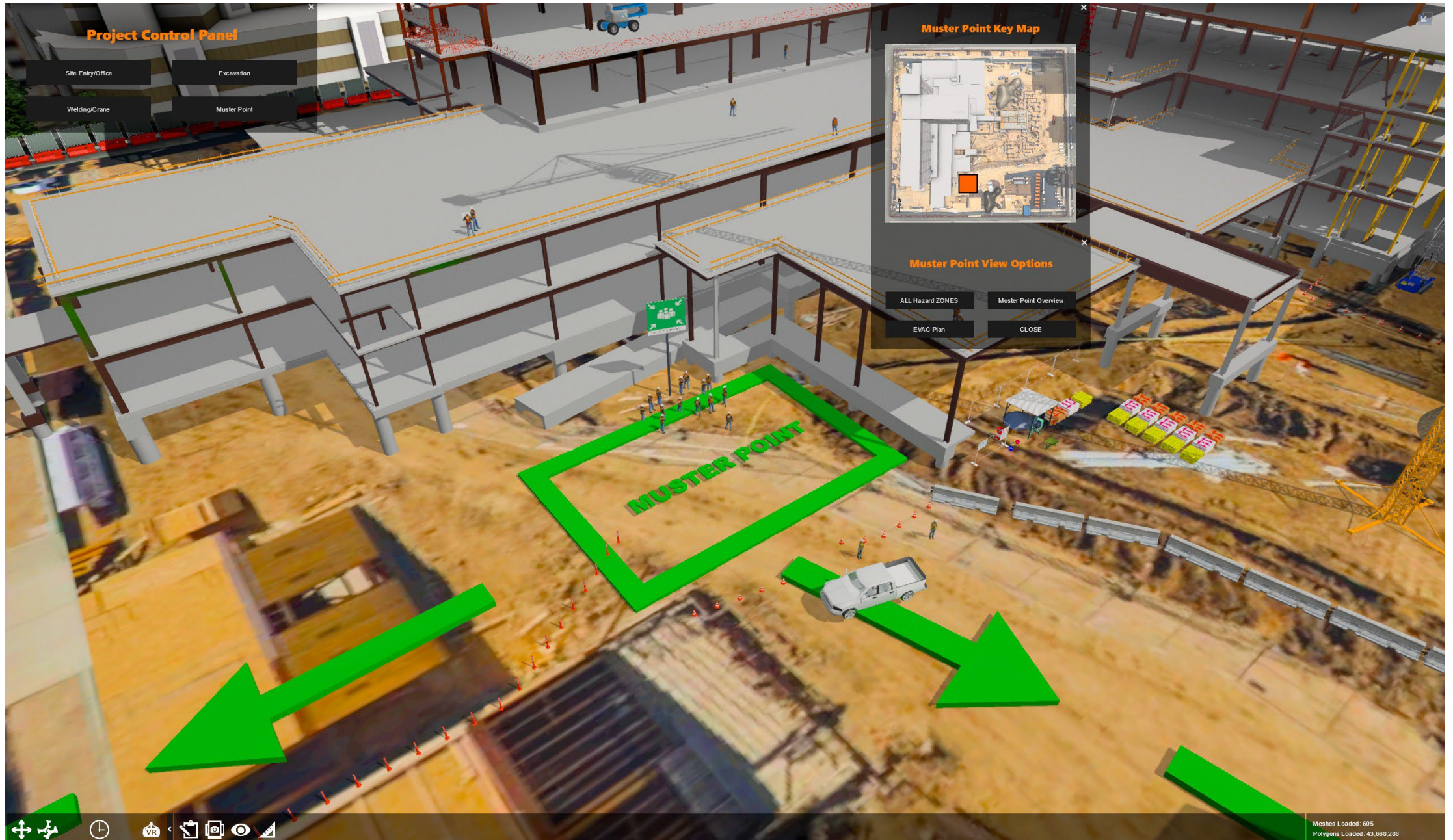
This Digital Environment can be updated to reflect site hazards and safety issues





Site Orientation

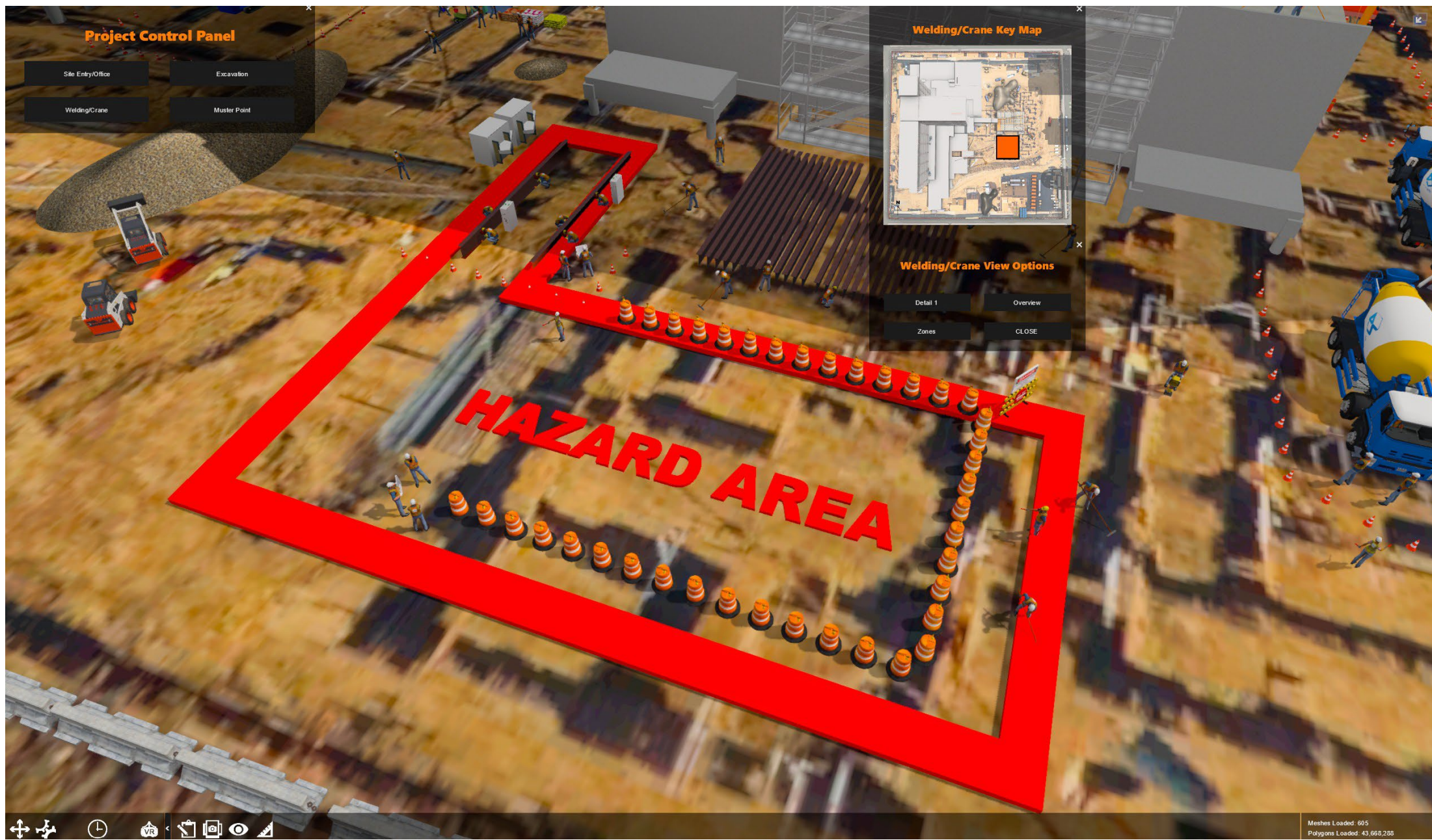
This Digital Environment can be updated to reflect site hazards and safety issues





Site Orientation

This Digital Environment can be updated to reflect site hazards and safety issues





Worker Assessment Tool

custom developed to your specifications



Worker Assessment Tool

User Data and other metrics are tracked and stored in an exportable database

The screenshots illustrate the following components of the tool:

- Top-Left:** A 3D perspective view of a partially assembled cantilever scaffold on a construction site.
- Top-Right:** The initial assessment screen. It features a toolbar with icons for various tools (hammer, saw, wrench, etc.), a timer at 24:52, and buttons for 'Undo' and 'End Activity'. A text box titled 'Assembly Activity' provides an overview of the task: 'Overview of Follow Technician Assessment. In this assessment, you are going to assist in building a cantilever scaffold just as you would on a job site. Although you will not physically build the scaffold, you are expected to erect it as if you were performing the work in the field. You will be prompted by instructions during the build activity. Follow the instructions and do what is asked of you whether that's identifying and passing a part, or installing a part yourself.' A large 'Acknowledge' button is at the bottom right.
- Bottom-Left:** A screen showing a 'Part Palette' with various scaffold components categorized by type and length. Categories include BRACE (8 ft), LEG (10-Ft, 3-Ft, 5-Ft, 8-Ft), BAR (2-Ft, 4-Ft, 5-Ft), Diagonal Brace (8 ft), Gate, Ladder Bracket, Ladder (6 ft), Red Tag Holder, Right Angle Clamp, Screw Jack, Spigot Clamp, Steel Filer Plank (5 ft), Steel Plank (5 ft), Steel Tube (4 ft), Swivel Clamp, Toe Board (Long), Toe Board (Short), Tube (10-Ft, 6-Ft, 8-Ft), Wooden Mudsill, and Yellow Tag. A timer shows 23:24 and buttons for 'Undo' and 'End Activity' are present. A text box indicates 'The Lead Technician is making a request. "Install the next piece."' and a 'Submit' button is at the bottom.
- Bottom-Right:** A 3D view of the scaffold from a different angle, showing the wooden mudsill and toe boards being installed on the lower level.



Worker Assessment Tool

Multiple types of assessment depending on the level of the trainee and the needs of the client

The screenshot shows a virtual reality interface for a scaffold assessment. On the left, a green mat contains various grey metal scaffold components: vertical poles, horizontal cross-braces, and a ladder. A wooden plank is also visible. In the center, a grey metal bracket is being held by a hand, with a mouse cursor pointing at it. Below this, a dark grey bar contains three buttons: a green 'Return' button, the text 'Click + Drag to Inspect', and a green 'Select' button. On the right, a blue tarp area contains four vertical grey bars. A 'Quit' button is in the top right corner. At the bottom, a light blue box contains the text 'Please hand me 4 bars.' and the 'Parts Rea' logo, which includes a blue cube icon and the text 'roomscale LABS'.

Parts Rea



roomscale
LABS