

LAUNCHPAD: **TOOLBOX TRAINING**

UNDERGROUND OBSTRUCTIONS

Key Terms

- Proposed foundations layer: Design file for proposed piles/foundations (under Foundations).
- Clamp all layers: Aligns design layers to the surface; prevents floating.
- Underground obstructions layer: Existing subsurface features (e.g., pile caps).
- Z value (cursor readout): Ground level at the cursor, shown at the bottom right.

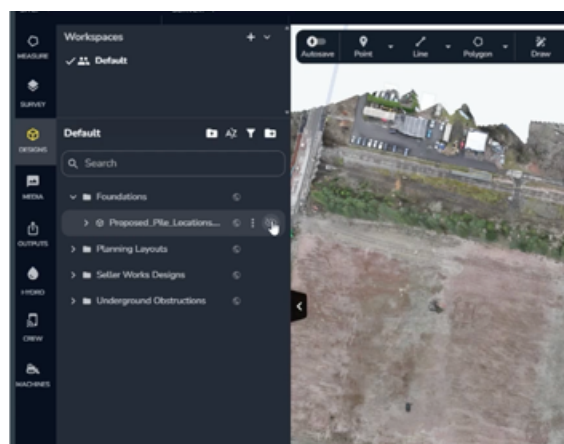
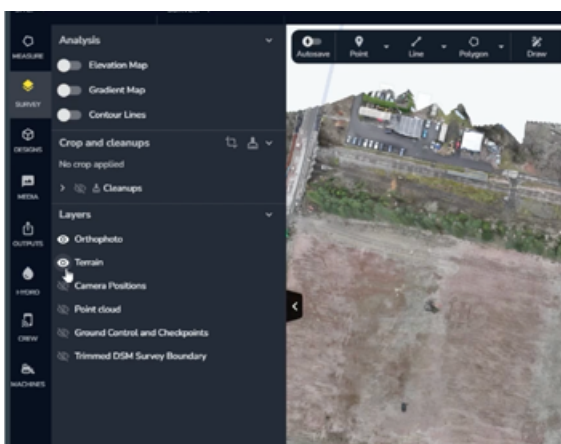
Steps

1. Load site and enable core layers

- Open the required site and most recent survey.
- Ensure the Terrain layer is enabled (Survey tab).

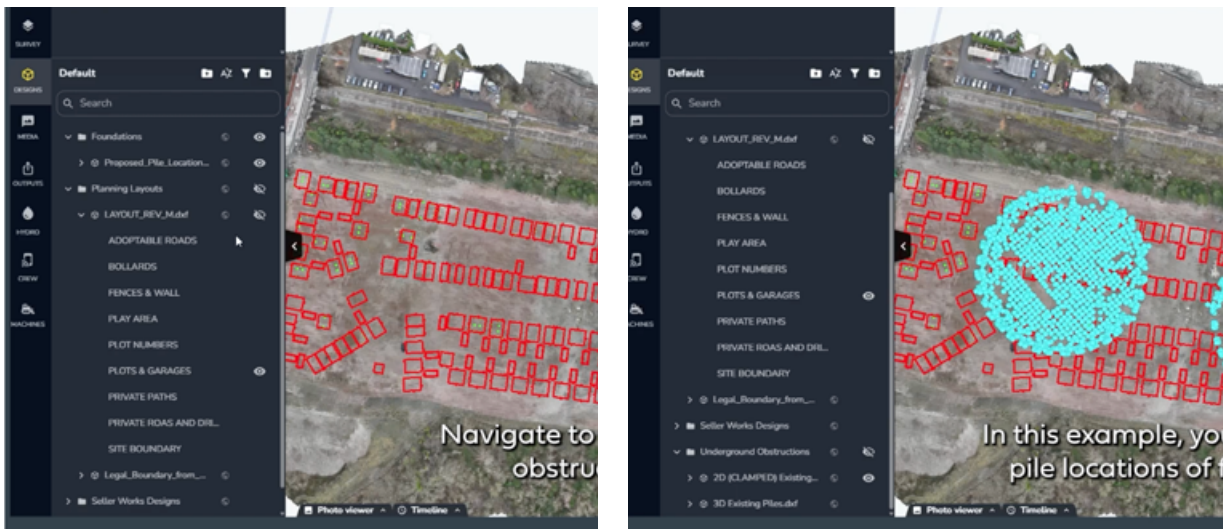
2. Enable proposals and context

- Open Designs → Foundations and enable the proposed foundations layer (eye icon).
- Click the three dots and choose Clamp all layers if available (leave as is if it reads Unclamp).
- Open Planning layouts and enable Plots & garages (and Roads, if useful).



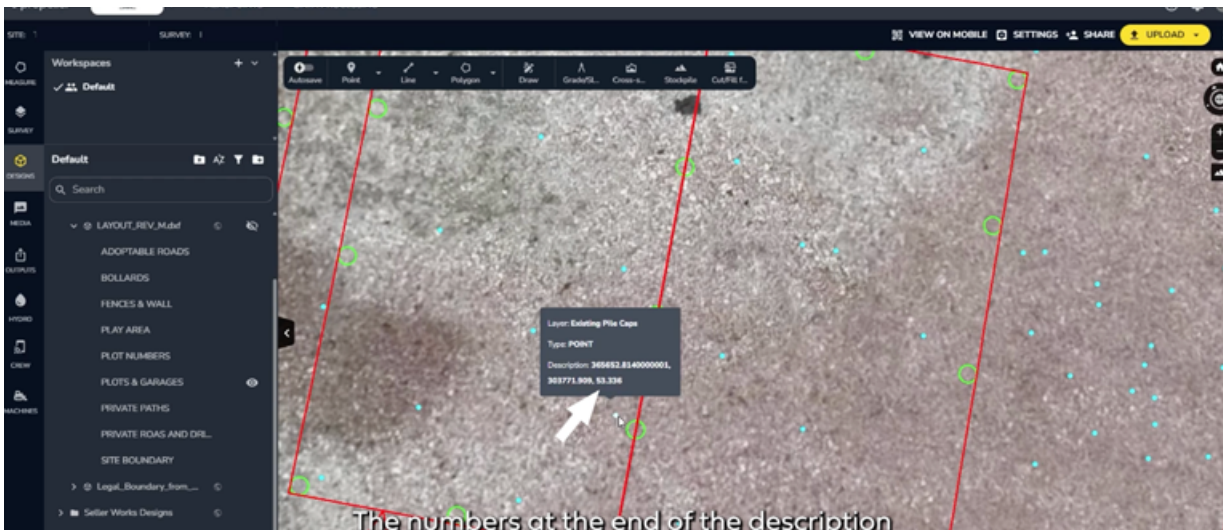
3. Enable underground obstructions layer

- Enable the Underground obstructions layer (2D or 3D as available).
- If both proposals and obstructions are 3D, a surface interlock export can highlight clashes.



4. Check for clashes at specific points

- Identify potential clash locations (e.g., overlapping proposed piles and existing caps).
- Click a blue dot (existing cap) to read its elevation from the description (e.g., 53.336 m).
- Hover the cursor over the same point to read the Z value (ground level) at the bottom right (e.g., 56.98 m).
- Compute the depth below ground (e.g., 3.65 m) and compare with proposed pile depth (e.g., 8 m).



5. Decide actions

- Use the calculated depths to confirm clashes and adjust designs before piling begins.



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Tips & Good Practice

- Keep units consistent (metres) and note values when documenting clashes.
- Ensure Terrain is on when reading elevations and Z values.
- Where possible, use 3D proposals to enable interlock exports for clearer clash evidence.

Troubleshooting

- Obstructions not visible: enable the correct layer (2D/3D) and check layer order/visibility.
- No elevation in description: click a different feature or consult the data source.
- Z value not updating: ensure the cursor is over the point and Terrain is enabled.



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