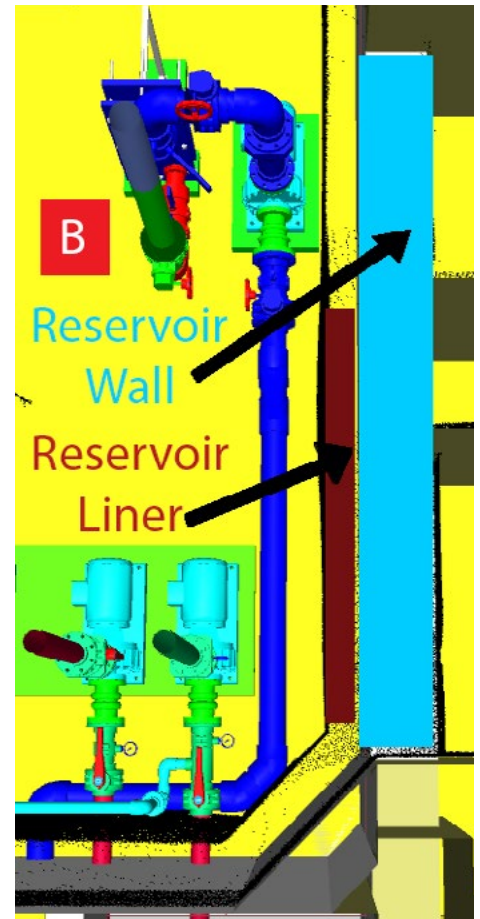
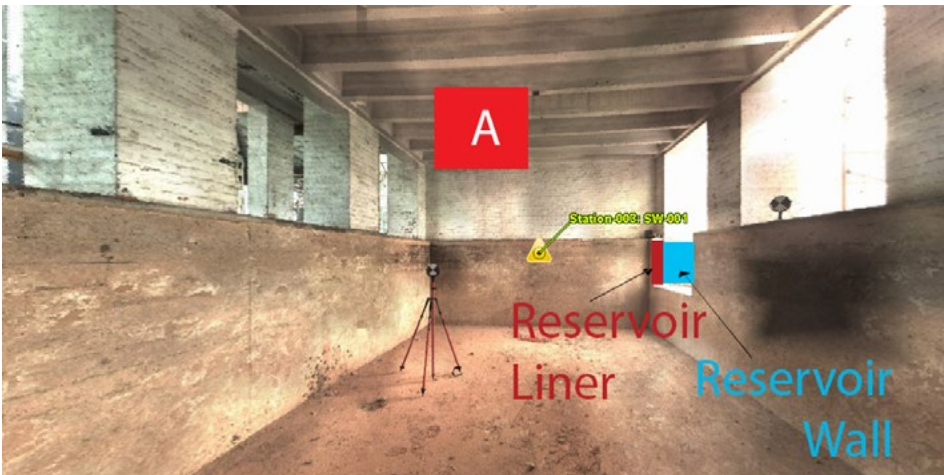


Laser Scanning / Existing Conditions Surveys



Project: **The Toledo Zoo Aquarium Renovation**

Dunbar's Role: **Prime Mechanical for Life Support Systems**

At stake: **Lives of rare and exotic marine species**

To ensure predictable excellence, Dunbar Mechanical employed a laser scanner for accurate measurements of the existing spaces in the circa 1930s aquarium structure.

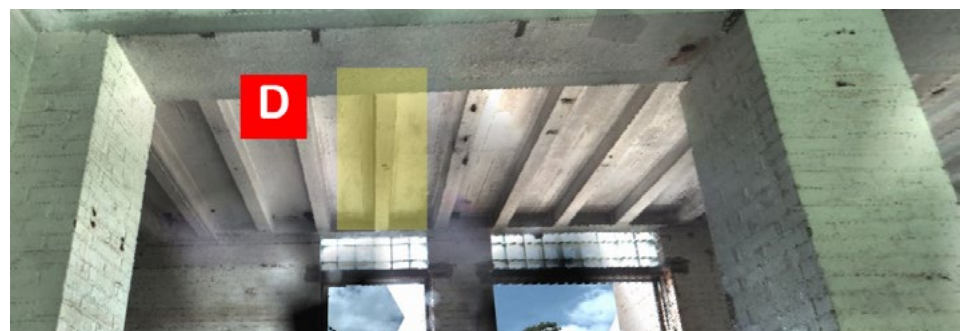
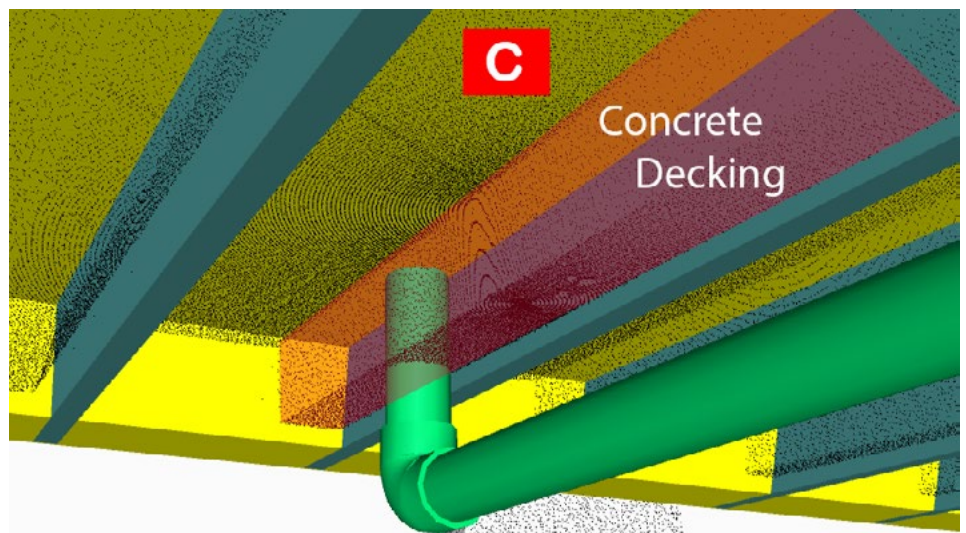
Your Special  Solution

The resulting point cloud was then layered into the drawings prepared on our CAD system.

The Benefits

Saved potential schedule and cost overruns by finding and correcting conflicts BEFORE work began in the field:

- Example 1: identified 12" liner wall (A) that was not included in the engineering drawings. *Dunbar's solution (B) worked for the actual site conditions.*
- Example 2: found collisions of planned pipe locations (C) with concrete decking (D). Dunbar's solution averted construction delays and their associated costs.



Your Special  Contractor

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