

/// GPRS LASER SCANNING SERVICES

AS-BUILT CREATION

As-built surveys have never been more accurate than with 3D laser scan technology. 3D laser scanning captures exact building dimensions, locations and layout, information that is crucial to the success of your project. Items are often moved, added or removed from the original plan, as-builts are invaluable in design, construction, renovation, prefabrication and facility modifications.

CASE STUDY: AS-BUILT CREATION

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TASK:

3D laser scan a Water Treatment Plant and deliver raw point cloud data.

PROJECT APPLICATION:

An Engineering Firm was generating construction drawings to expand an existing Water Treatment Plant.



PROBLEM

- No as-built drawings existed for the Water Treatment Plant. The firm needed accurate field conditions to create new layouts and plan for the facility expansion.
- Exact dimensions were required to plan modifications and fabricate pipe.
- The Engineering Firm was located in California, the Water Treatment Plant was located in Texas. It was important that they had accurate information digitally to begin design planning.



SOLUTION

- Using a Leica ScanStation, GPRS' project manager completed 40 laser scans of the building to capture architectural, structural and MEP features.
- The client received a colored point cloud in ReCap (.rcp files and related supporting files) and TruView files.



BENEFITS

- Laser scanning is an extremely efficient and accurate way to gather data necessary to create construction drawings of a building or space.
- 3D laser scanning eliminated the firm's travel to the Water Treatment Plant. In one day on site, enough scans were taken to create a complete colored point cloud of the space.
- 3D laser scan data provided the Engineering Firm critical tie points on tanks and lines, information that was crucial to the expansion.



I HAVE USED 3D POINT CLOUDS FOR MANY YEARS. I USE THE RAW POINT CLOUD DATA TO DO MY LAYOUTS ACCURATELY TO THE FIELD CONDITIONS.

MIGUEL SANCHEZ | CAD DESIGNER



SAFETY
ALWAYS ON
OUR RADAR