

////// GPRS LASER SCANNING SERVICES

CASE STUDY

CASE STUDY: LASER SCANNING FOR LARGE-SCALE RENOVATION AND EXPANSION

TASK:

Vanderbilt Legends Golf Club requested laser scanning of the clubhouse, including the pro shop, locker rooms, and restaurant areas for a large-scale renovation and expansion project.

PROJECT APPLICATION:

The architect needed the accuracy of laser scan data to deliver the most successful renovation project possible.



PROBLEM

- Vanderbilt Legends Golf Club desires to renovate and expand the clubhouse to propel the University's varsity golf programs into an elite facilities status.
- The general manager at the course wanted minimal interference with guests and employees.
- The architect needed as-built data to develop a design plan and solicit bids from construction companies.



SOLUTION

- In one day on-site, TruePoint's Project Manager used the Leica RTC360 laser scanner to capture accurate as-builts of the 17,000 sq. ft. two-level clubhouse.
- The client received an intensity map point cloud file, 2D CAD drawings, and a Revit 2020 LOD 200 3D model.
- Documenting the accuracy of architectural elements, such as the building envelope, walls, windows, doors, ceilings, exposed columns, beams, and posts was critical for the renovation.



BENEFITS

- For large-scale renovations, it is important to invest in project planning to do the job right.
- The architectural and structural model was created to 1/4" accuracy to develop detailed architectural plans for the construction contractor.
- The building renovations will create a state-of-the-art facility for the team and members, as well as help in recruiting.

