
SKANSKA cut photo documentation time in half by using HoloBuilder.

Background

Skanska, one of the world's leading construction companies, is building The Charter Seattle, a Curio Collection by Hilton. The Developer is Widewaters Group, Inc. Project stakeholders are scattered across New York, Atlanta, DC, and British Columbia. The 185,000-sq. ft. hotel is constructed over an existing parking structure with a construction contract value of \$52.3M. The project is using HoloBuilder for a variety of reasons including documentation of existing site conditions, sharing progress with stakeholders and quickly making remote decisions based on the current status in the field. One of the most powerful use cases for Skanska is the ability to capture images in conjunction with pre-pour inspections during limited time windows for capturing.

Challenge

Skanska's projects involve many site photos for different reasons, including communicating progress, solving challenges between the design and existing conditions, asking for additional information, and documenting site conditions. The primary challenge is efficiently documenting all the in-slab deck conditions prior to pouring, which can be a limited window of time. The challenge lies in adequately documenting PT cables, HVAC, plumbing and electrical sleeves, rebar, studrails, etc. The result is a large number of photos without a label or located with respect to a specific area. Traditional site photos often remain in the camera, are lost as team members leave the project, or become disorganized in a "general" photo folder.



Fig. 1: Rendered view showing the The Charter Seattle.

Solutions

Skanska's Project Engineers use HoloBuilder to take 360° photos in conjunction with the bi-monthly concrete pour cycle. Each of the 16 levels are captured and uploaded during a 1 hour site walk using HoloBuilder's JobWalk app and a standard 360° camera. One 360° photo contains approximately the same visual information as 11 traditional photos. The resulting HoloBuilder project provides key information about the contents and layout of materials in the slab including mechanical, electrical and plumbing as well as the rebar size, spacing and number. The images also contain additional context related to site conditions, weather, and location where the 360° photos were captured. Skanska is able to share the site conditions with the architect and structural engineer as a supplement to the inspection.

Results

With HoloBuilder, Skanska's project team has reduced photo documentation time by 50% while also gaining a valuable deliverable that's shared with the owner, architect and other project stakeholders.

"HoloBuilder regularly saves us a tremendous amount of time and legwork in documenting site conditions. The platform is very intuitive and allows us to efficiently share our progress with our client and design team."

Daniel Hoffman, Assistant Project Engineer
