

High-Rise Apartment Construction

How map-based drawings boost collaboration and prevent rework

To build quality high-rise apartments at an efficient pace, a general contractor needed construction software that delivered updates about logistics planning, oversight, QA/QC review, and inspections to all stakeholders in real time.



Results

Rework prevented

Layering geolocated plans caught errors and prevented rework. In the first three months, this saved significant money.

\$50k+ saved

Faster site planning

Digital markup, annotation, and collaboration on aerial imagery and site plans cut site planning time in half.

60% less time

Efficient inspections

Equipping inspectors with mobile data capture (notes, photos, and measurements) saved critical hours every week.

25 hrs/week saved

Fewer meetings

Real-time insights eliminated the need for mandatory, bi-weekly in-person stakeholder meetings.

Bi-weekly → As-needed

The Problem

In the process of building a multi-story residential tower, a general contractor found themselves using four different software solutions to handle their various construction workflows: photo documentation, plan management, inspections, and as-built drawings. The project required strict oversight on subcontractor work, and building pace quickly fell behind schedule.

Inspections, pay applications, and prep for stakeholder meetings increased from five to 30 hours per week as the backlog grew. Communication broke down with information siloed in different systems and software licensing restrictions preventing people from accessing the data they needed.



The Solution

Mapping their construction data unlocked new insights and prevented significant rework. One superintendent downloaded plans of nearby road construction from the DoT and overlaid them on his project in Uearth's OnePlace™. He realized in the process that road construction was slated to change the roadway and sidewalk they were about to build. He was able to stop work immediately – saving hundreds of thousands of dollars and weeks of wasted time.

Managing work on a context-rich map in OnePlace™ also broke down data silos and eliminated frequent onsite inspections. Instead of managing plans in one system, photos in another, and stakeholder reporting in a third, they used bulk upload to merge all project data into OnePlace™. This created a single place to view and store all important information and eliminated the licensing restrictions that limited access to necessary data.

As a result, they were also able to replace their photo documentation and as-built software systems with Uearth's simple digital tools: saving on licensing fees while streamlining processes even further. With photo documentation and plan management in a single system, as-built drawings became an automated by-product of ongoing work.



Map-Based Drawings

Teams could toggle between all blueprints, drawings, or plans to view progress on any project phase at any level of building.



Real-Time Communication

Notes on drawings or plan sets were instantly shared with all need-to-know stakeholders for faster issue resolution.



Geolocated Photos

Mapping photos enabled all stakeholders to visually review the entire project history in seconds.



Easy Data Upload

Bulk upload of all photos and documents helped to quickly organize huge amounts of historical project data.

