ALLTERRA™

WELCOME

SEPTEMBER 26, 2023

OKLAHOMA CITY, OK

Ethan Heck

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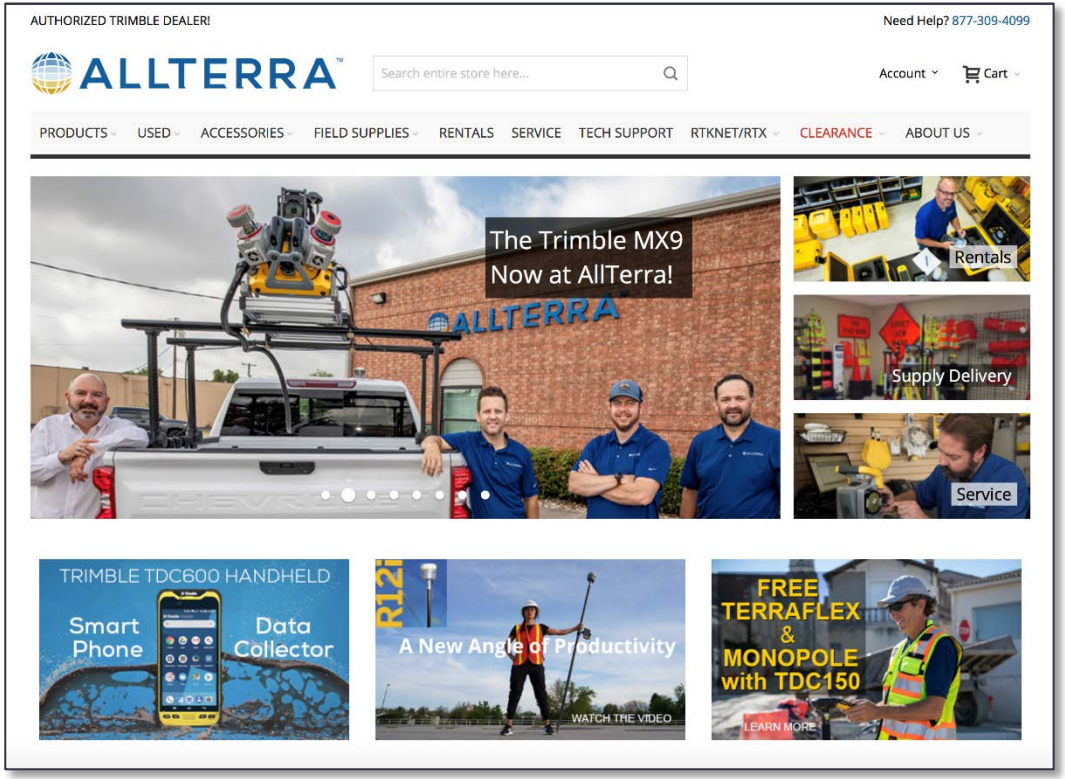
What AllTerra offers

- **Complete line of Trimble:**
  - Survey Equipment
  - Mapping/GIS equipment
  - Mobile Mapping
  - Marine
  - UAVs/Drones
  - 3D Scanning
- State-of the Art Website
- Used Equipment
- Rentals
- Accessories and Field Supplies available in every store and online.



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Why choose AllTerra?

- 13 Service Technicians in the State with quick turnaround on equipment
- 12 full time Technical Support Staff available via phone and/or email.
- RPLS on staff
- Trimble Certified Trainer available for on-site training at project field offices.
- Supplies and Accessories available in every store and ONLINE.
- Complete Trimble Line – Marine, Mapping/GIS, Survey, Scanning & UAV's

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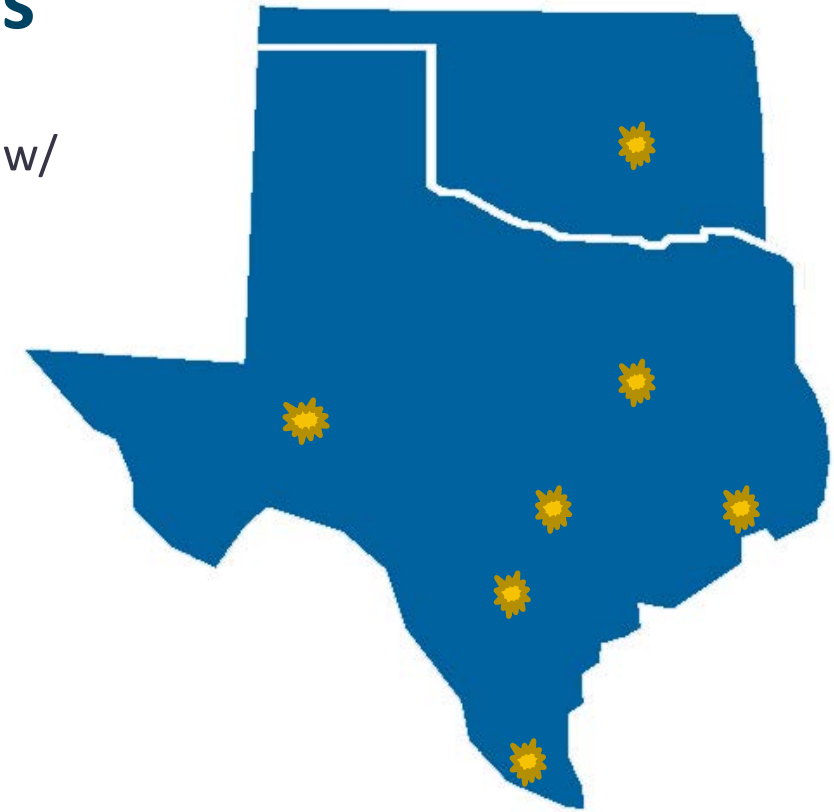
AllTerra Office Locations

- Surveying Companies growing larger w/ Statewide needs
- Offices
  - Austin
  - Dallas-Fort Worth
  - Houston
  - McAllen
  - Midland
  - San Antonio
  - Oklahoma City, OK
  - Phoenix, AZ
  - Albuquerque, NM (MGIS)



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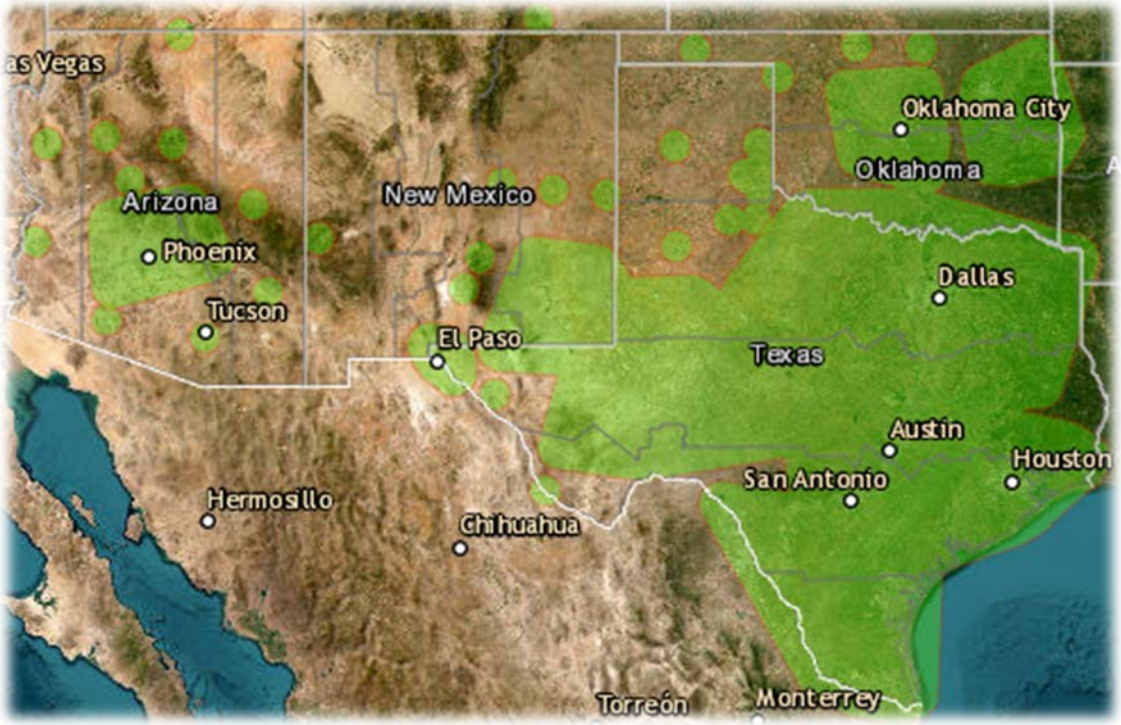
Texas/Oklahoma/New Mexico/Arizona VRS Network

RTKnet.com



- Largest private network in the United States
- 4 states, 209 Stations

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Overview

- Terra Office
  - Overview
  - Schema Push to Field
  - Create Tasks/Updates
- TerraFlex
  - Collect Data
  - Update Data From Tasks

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Terra Office

Works with ArcGIS	• Add-ins for ArcGIS Pro & ArcMap
Easy licensing	• Annual subscription
Simplified geodetics	• Automatic config. prevents mistakes
Data integrity	• Enforces all rules from GIS schema
Offline corrections	• Uses offline GNSS corrections

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Compatibility

- Add-in for ArcMap
  - 10.2 or higher
  - Connect to geodatabases
  - Workflows:
    - Real-time, local post-processing, direct connection
- Add-in for ArcGIS Pro
  - 3.0 or higher
  - Connect to geodatabases and feature services
  - Worflows:
    - Real-time, cloud post-processing

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Database Integration

Cloud-based synchronization with:

- File Geodatabases
- Enterprise Geodatabase
- Feature Services
- Hosted Feature Layers

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Data Integrity

- Export existing schema to the field
  - Cannot be edited in the field
- Enforce data types and other constraints from GIS
- Setup metadata fields and accuracy requirements
- Perform QA/QC on collected data to review feature geometries and accuracies

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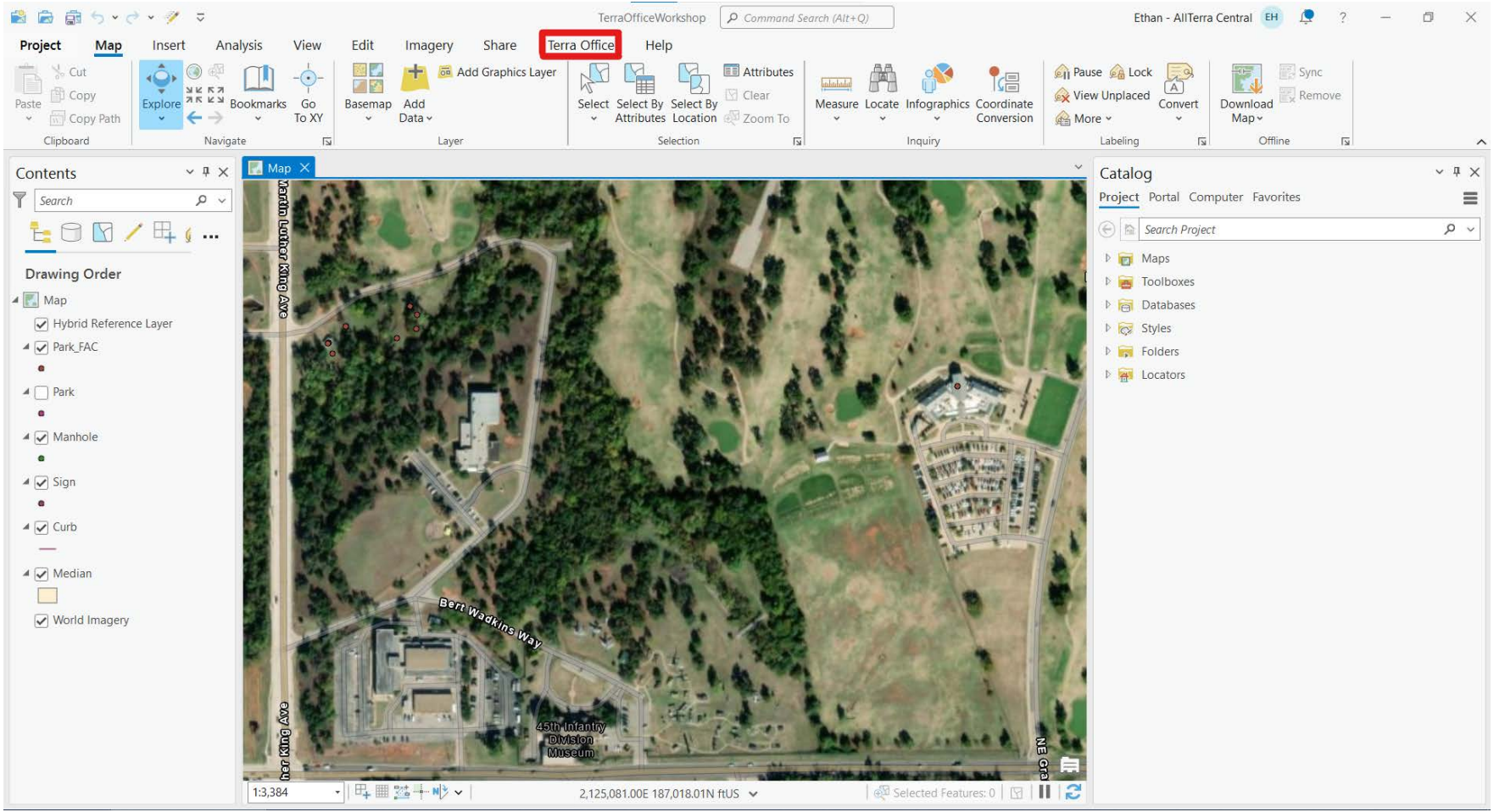
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Command Search (Alt+Q)
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Imagery
Share
Terra Office
Help
Paste
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Copy
Copy Path
Clipboard
Explore
Bookmarks
Go To XY
Navigate
Basemap
Add Data
Add Graphics Layer
Layer
Select
Select By Attributes
Select By Location
Attributes
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Zoom To
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Measure
Locate
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Coordinate Conversion
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Lock
View Unplaced
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Bert Wadkins Way
45th Infantry Division Museum
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Toolboxes
Databases
Styles
Folders
Locators

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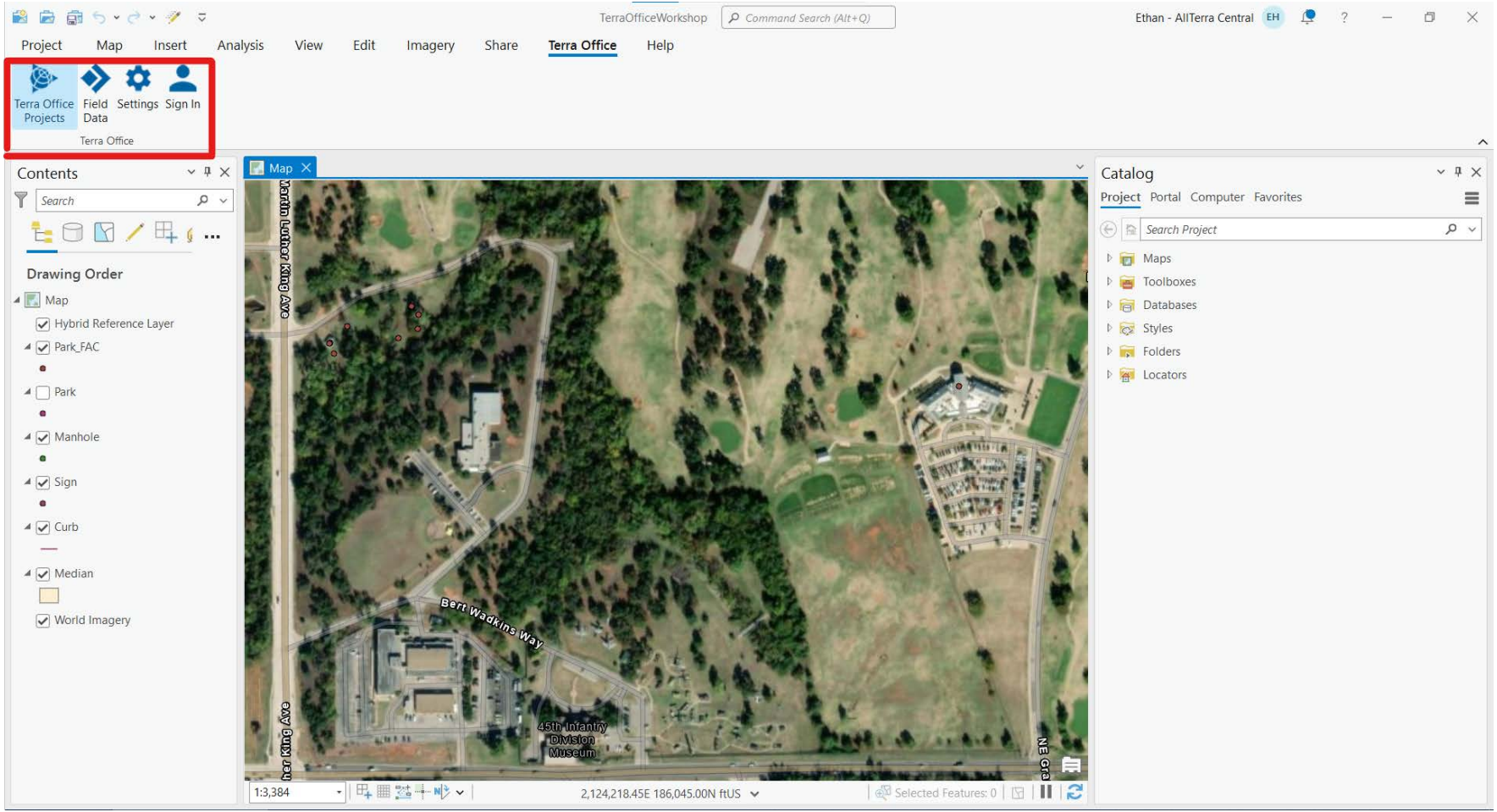
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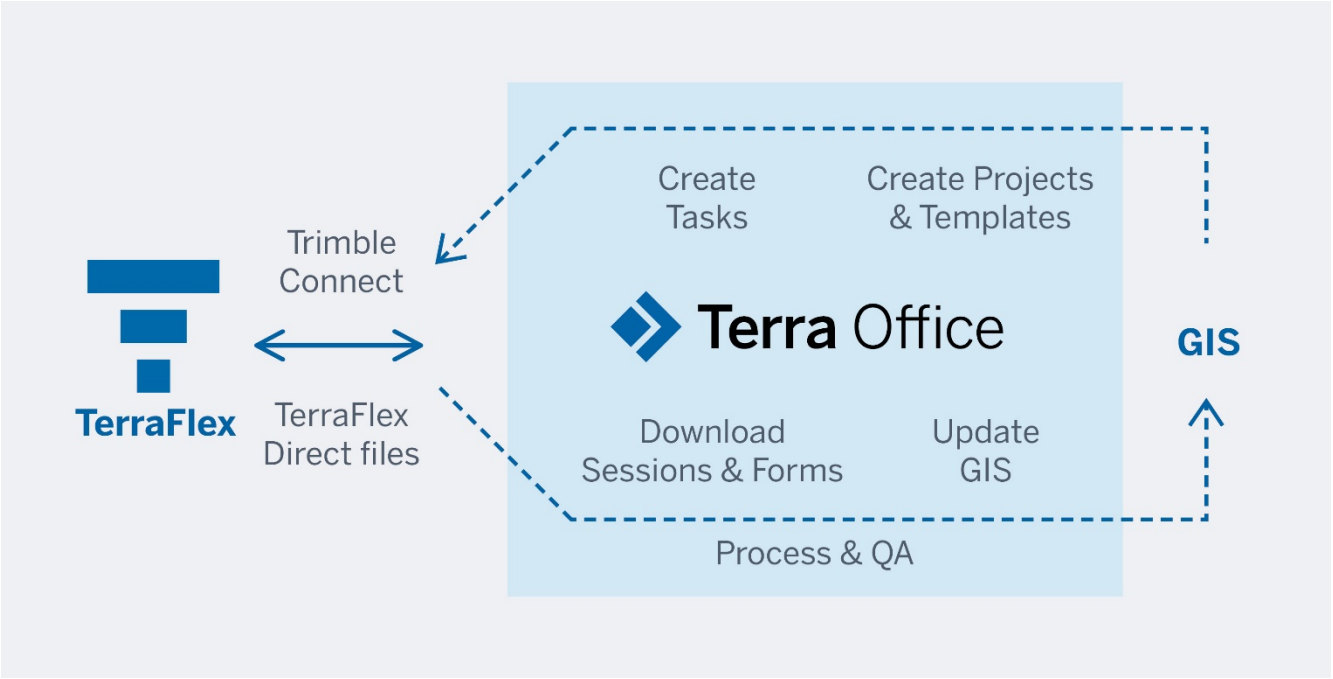
Workflow Overview



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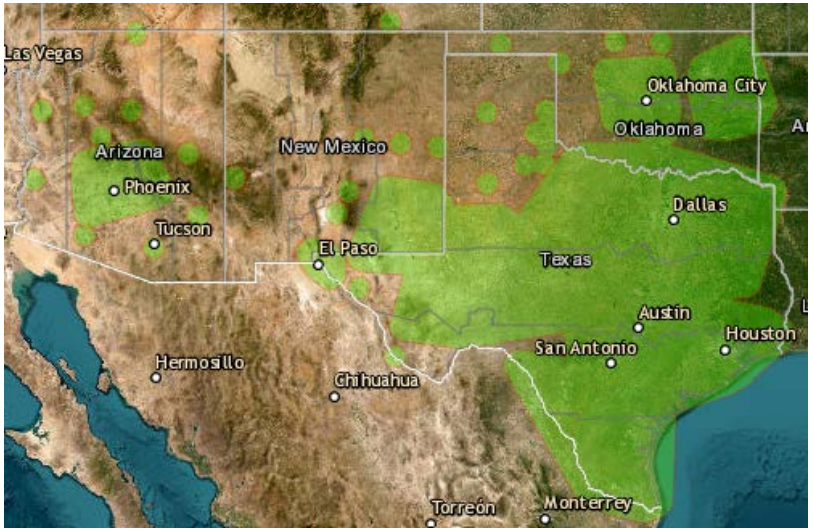
Corrections

- Real-Time
  - SBAS
  - RTX
  - AllTerra Central's VRS Network
- Cloud Post-Processed
  - Automatic cloud post-processing in Trimble Connect



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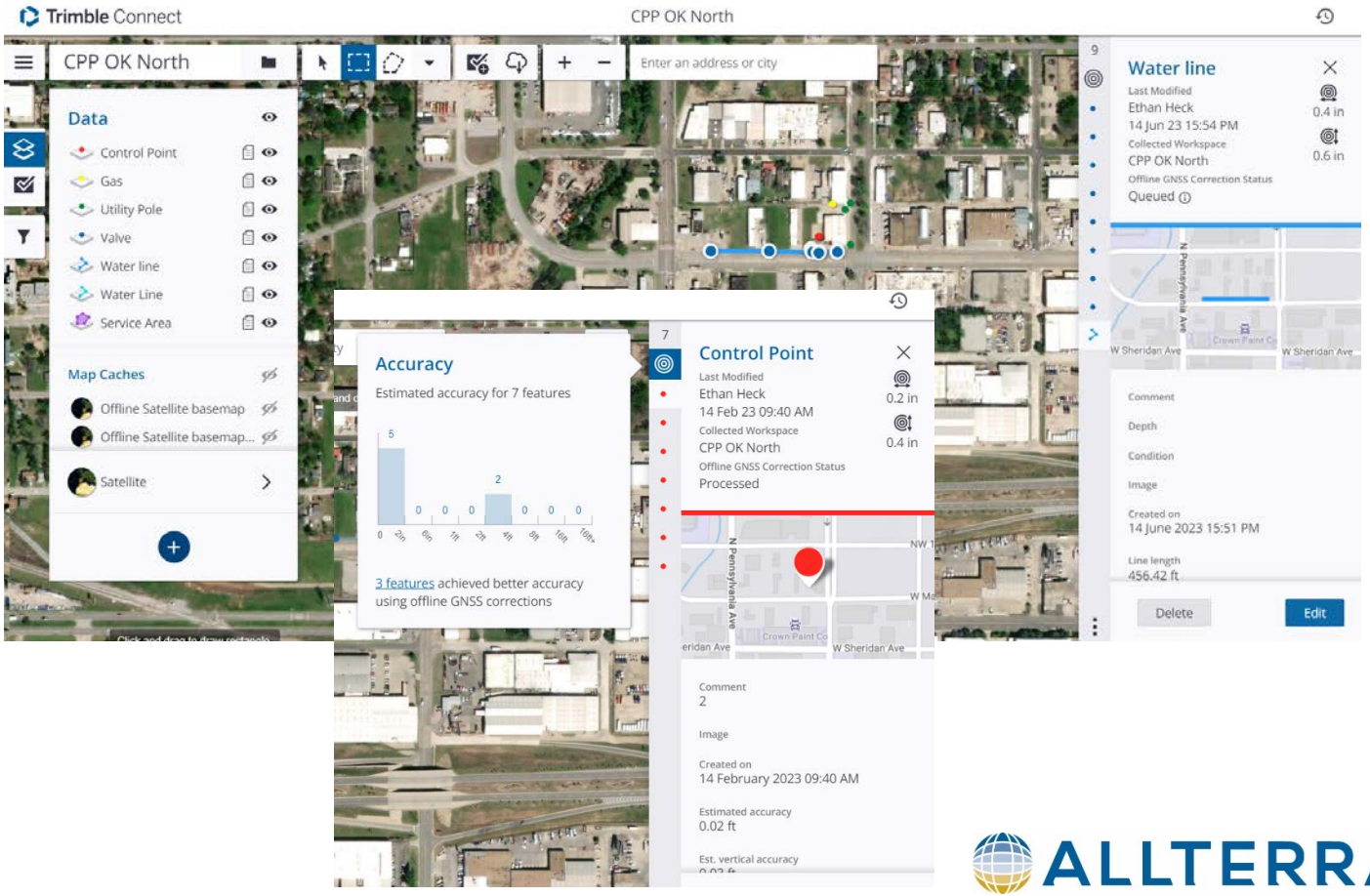
Post-Processed GNSS



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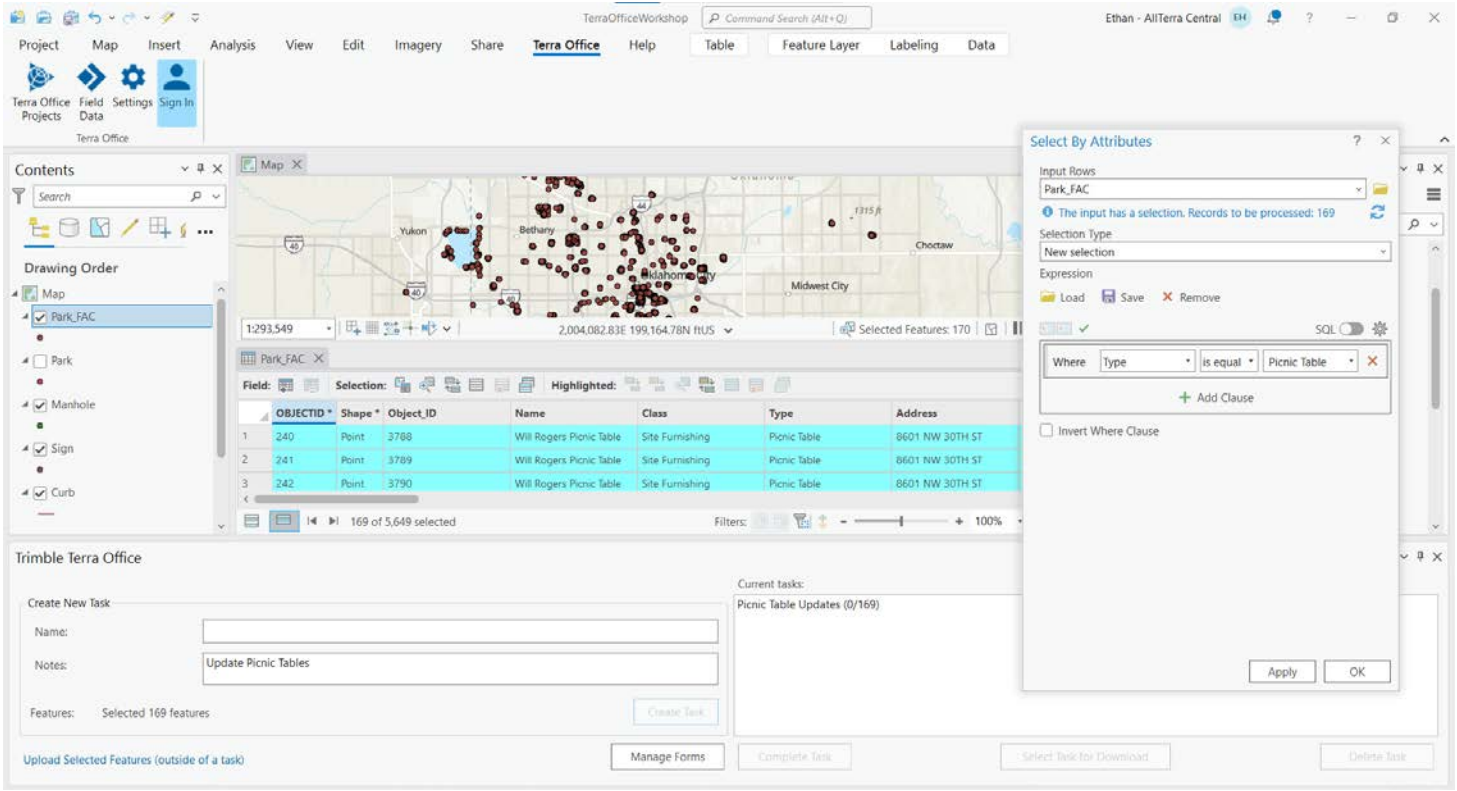
Field Data Updates



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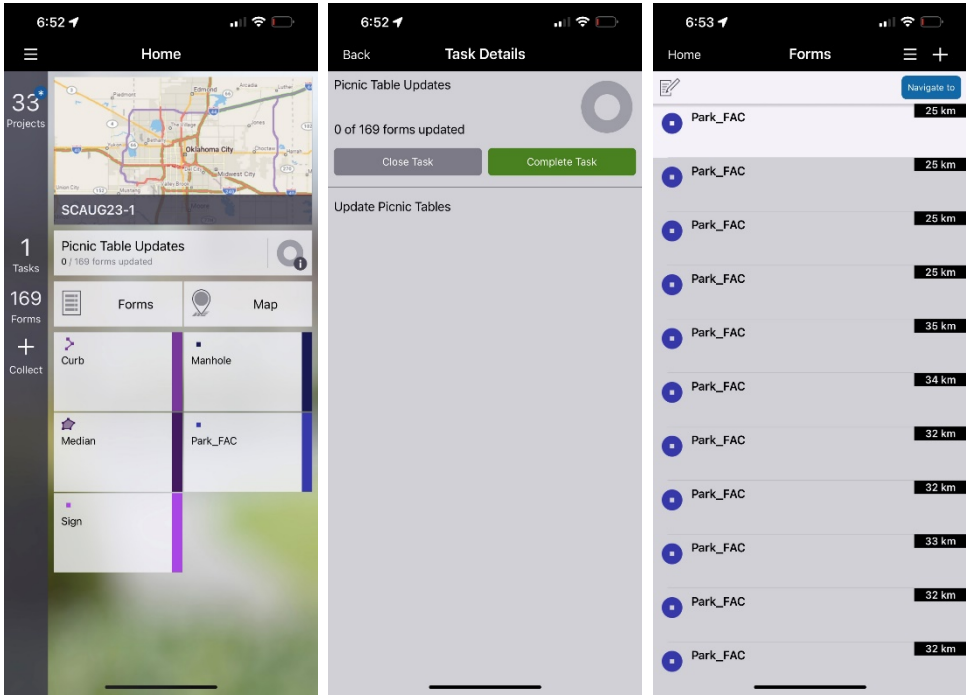
TerraFlex – In Field Data Updates



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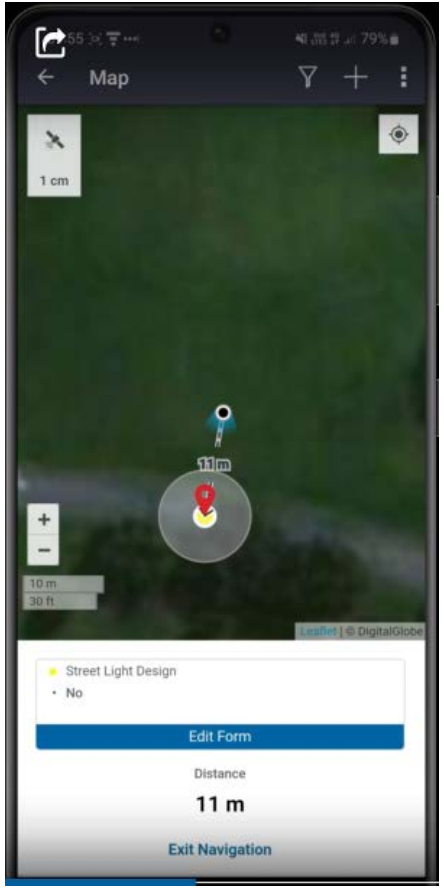
Stakeout



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GNSS Hardware Options

Bluetooth Receiver

- Advantages
  - Flexibility (BYOD)
- Disadvantages
  - More Components
  - Additional Connections

Handheld

- Advantages
  - Ultimate Simplicity
  - Lighter Kit
- Disadvantages
  - Less OS Flexibility

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GNSS Offsets

GNSS LTI LASER OFFSETS IN TERRAFLEX

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