YOUR CONSTRUCTION TECHNOLOGY PROVIDER

SITECH

Field Reference Guides

EARTHWORKS EXCAVATOR Version 2.9

SITECH XXX

SITECH-XXX.COM

Trimble Authorized Dealer

System: Earthworks Excavator

Version: 2.9

SITECH TECHNOLOGY DEALER

TRAINING CHECKLIST

System: Earthworks Excavator

Version: 2.9

Training Checklist **Page #**

Customer Copy

Training Acknowledgement:

Customer Signature **Date** **SITECH Representative** **Date**

SITECH TECHNOLOGY DEALER

TRAINING CHECKLIST

System: Earthworks Excavator

Version: 2.9

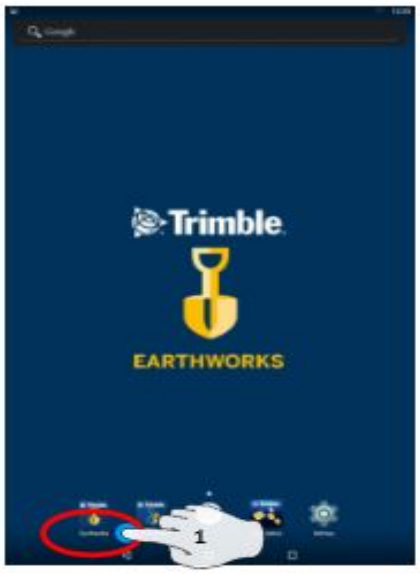
Training Checklist **Page #**

SITECH Copy

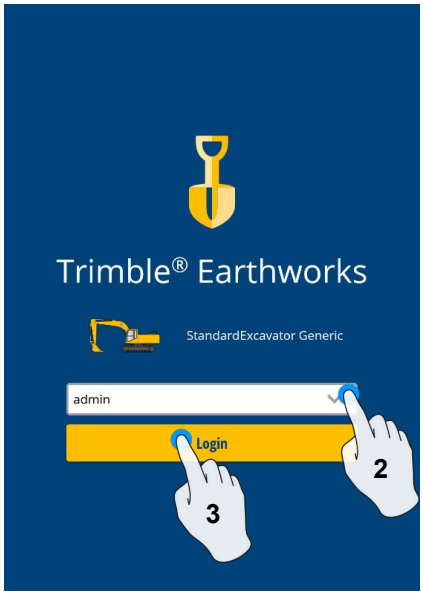
Training Acknowledgement:

Customer Signature **Date** **SITECH Representative** **Date**

Starting Earthworks



1. Touch EarthWorks



2. Select Operator
3. Enter Password if required and touch Login

Dashboard

Machine Setup

Guidance

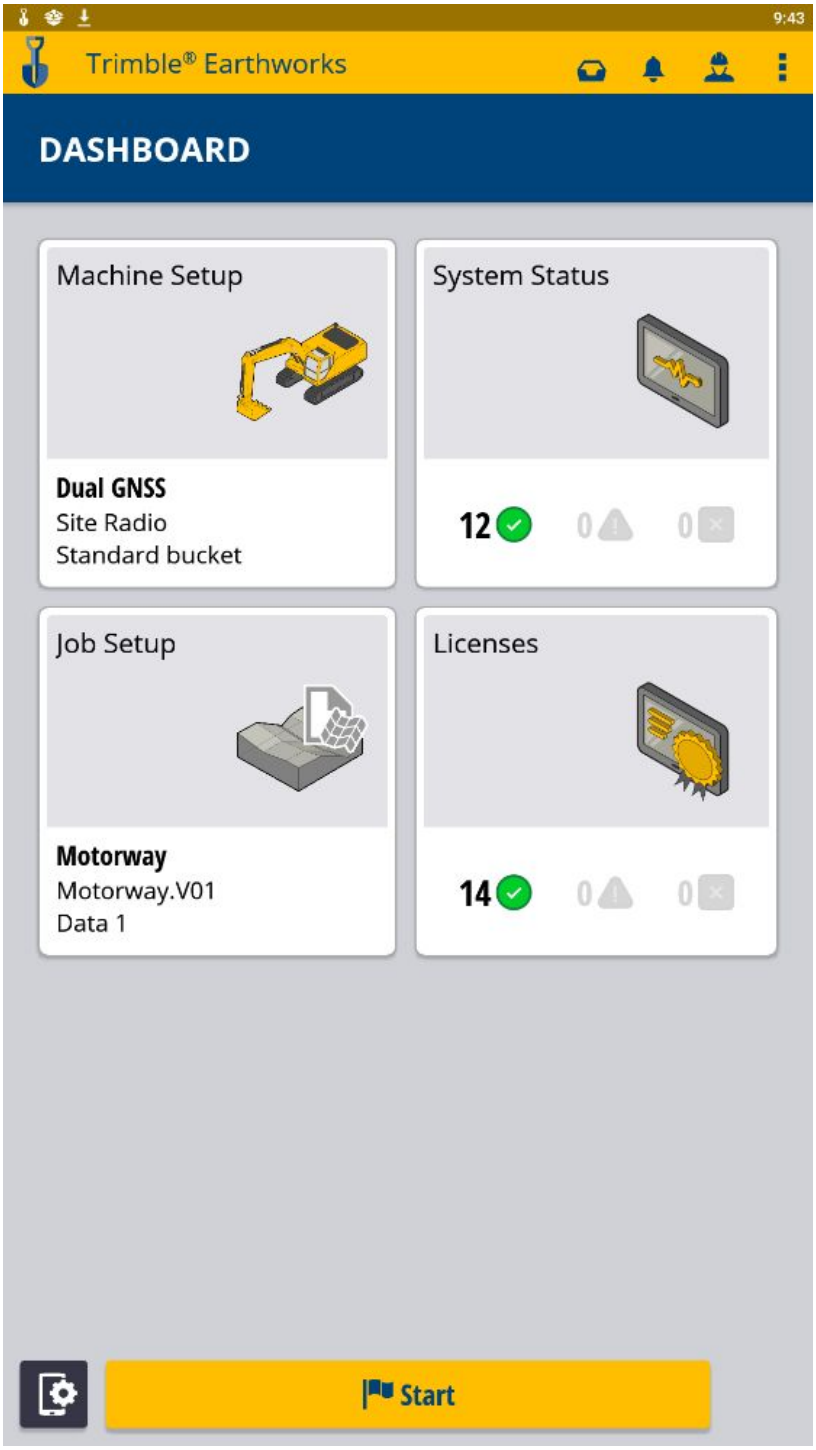
- Position Source
- Correction Source

Attachments

- Attachment Name

Job Setup

- Select or Create project
- Select or Create Design
- Select or Create new Measured Data Folder
- Select Mode: Depth and Slope, Design, Infield



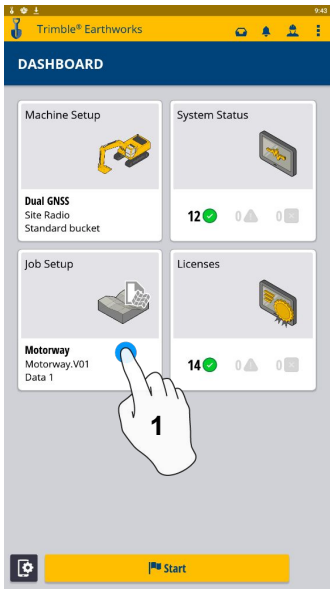
System status

- Status of Devices
- Component warnings

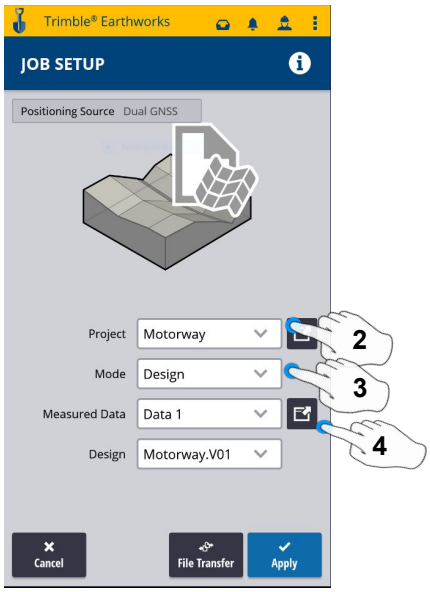
Licenses

- EC520 License
- TD520 License
- GNSS Receiver Licenses

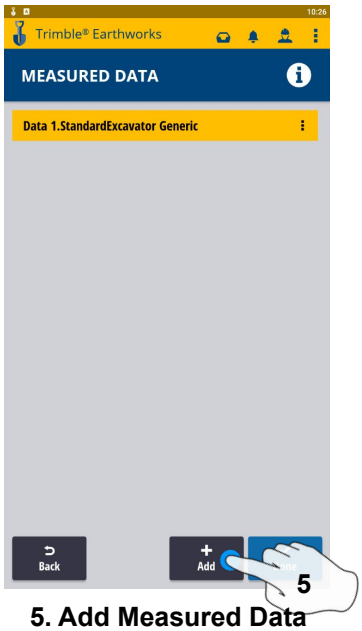
Select Project, Design and Measured Data



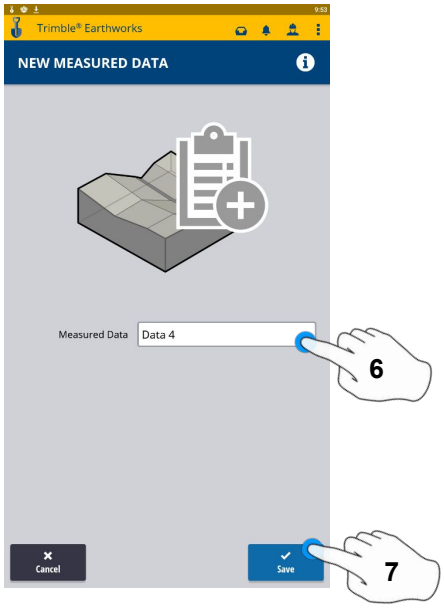
1. Touch Job Setup



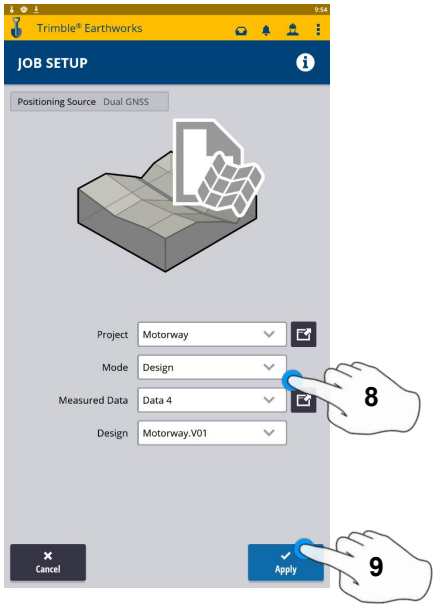
2. Touch project
3. Touch Mode
4. Measured Data (Create New)



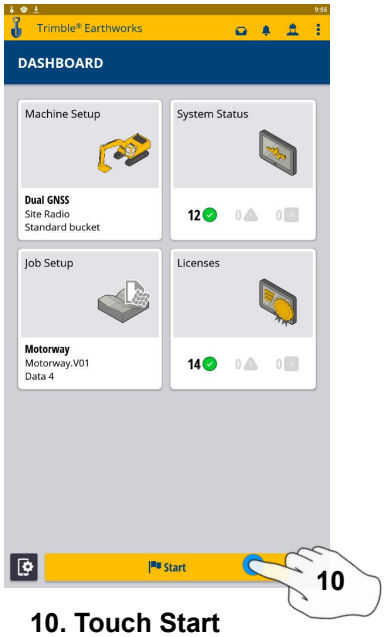
5. Add Measured Data



6. Type New Measured Data Name
7. Touch Save, on next screen
   Touch Done

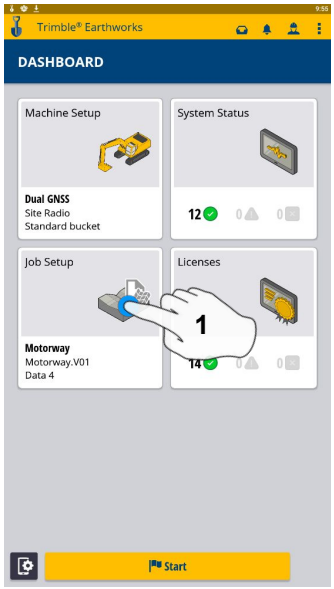


8. Touch Design
9. Touch Apply

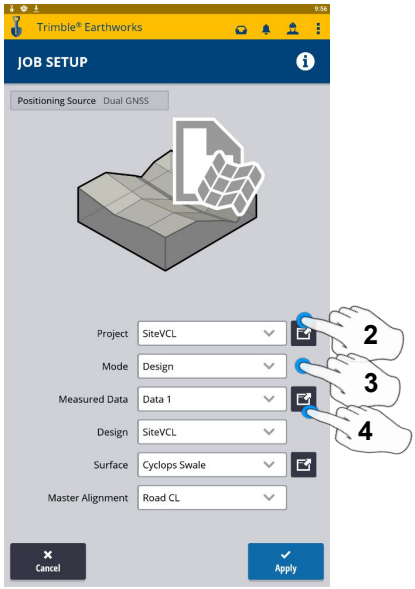


10. Touch Start

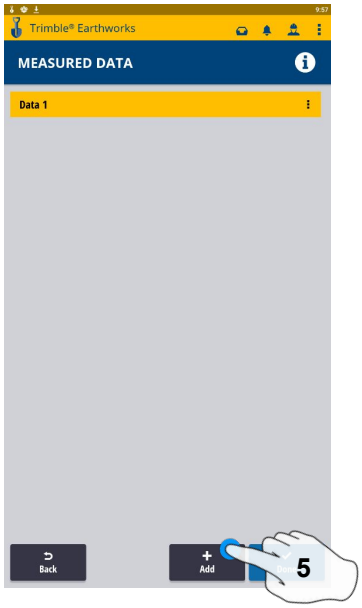
Select Project, Design and Measured Data: VCL



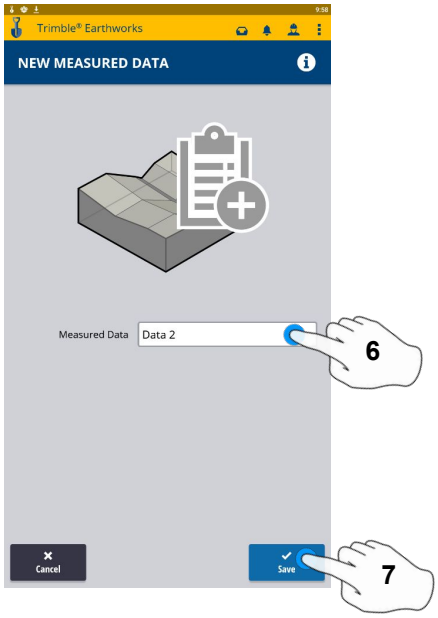
1. Touch Job Setup



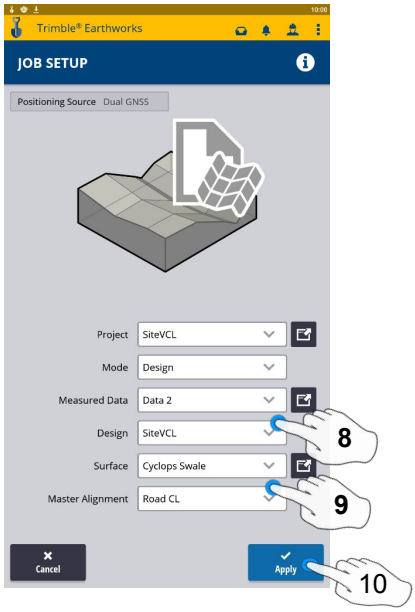
2. Touch Project- Select Project
3. Touch Mode- Select Design
4. Touch Measured Data



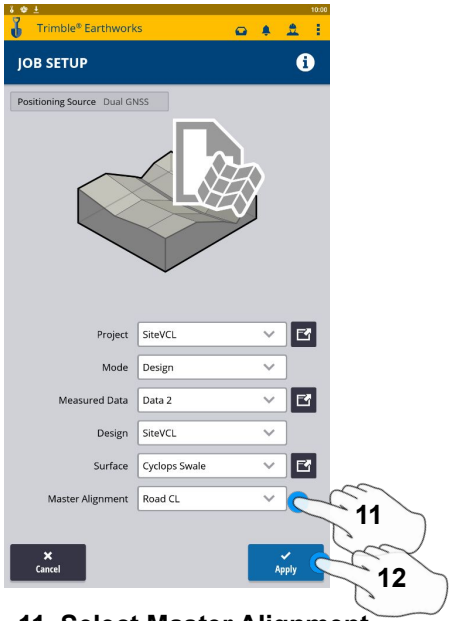
5. Add Measured Data



6. Type New Measured Data Name
7. Touch Save on next screen touch Done

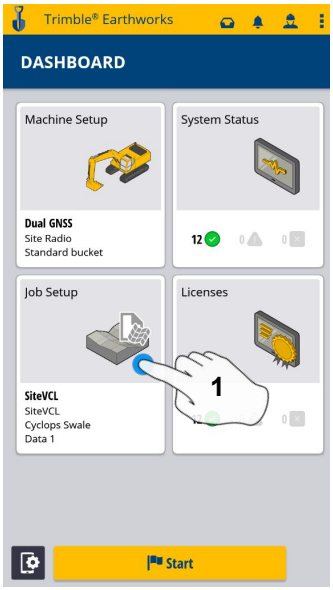


8. Touch Design- Select Design that Contains a VCL
9. Touch Surface- Select Surface
10. Touch Apply

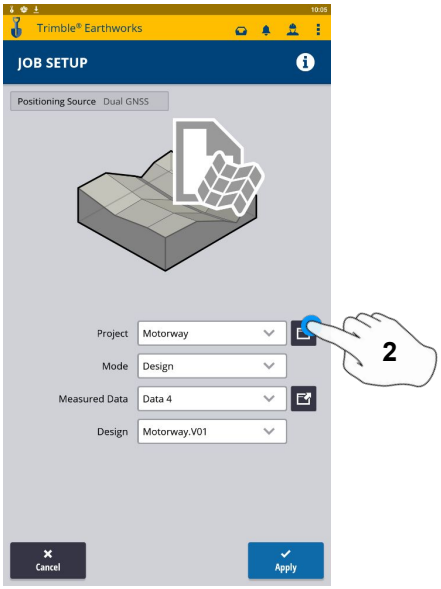


11. Select Master Alignment
12. Touch Apply
13. Touch Start

Create New Project

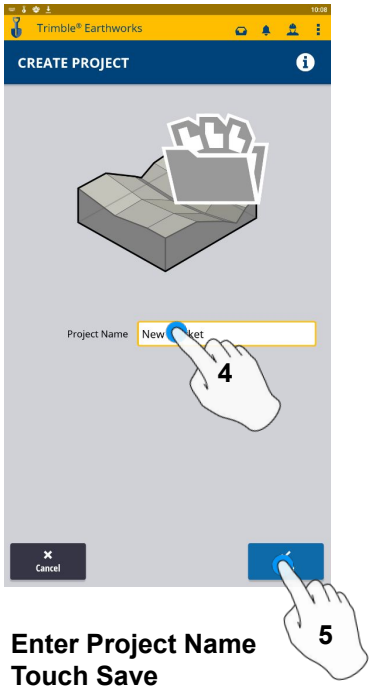


1. Touch Job Setup

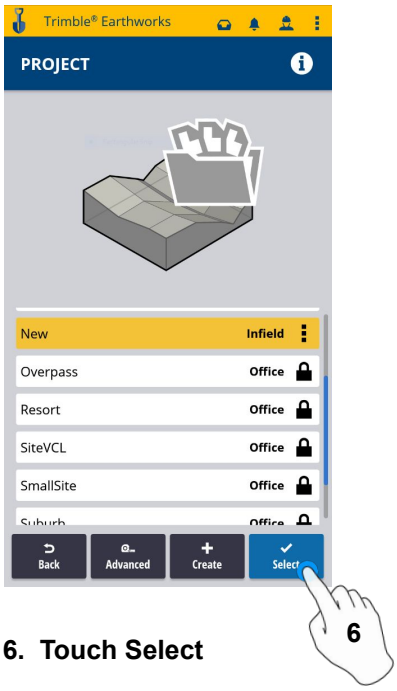


2. Touch Project

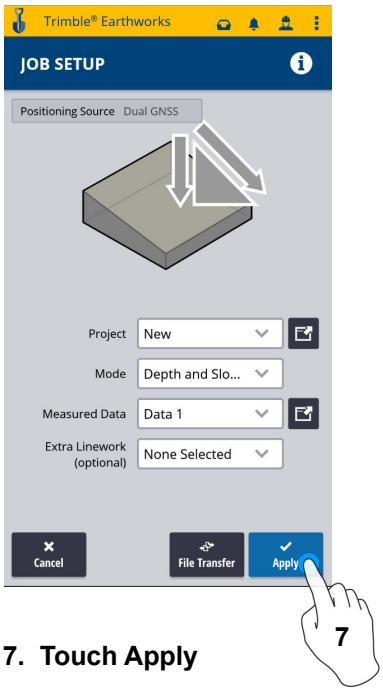
3. Touch Create



4. Enter Project Name
5. Touch Save



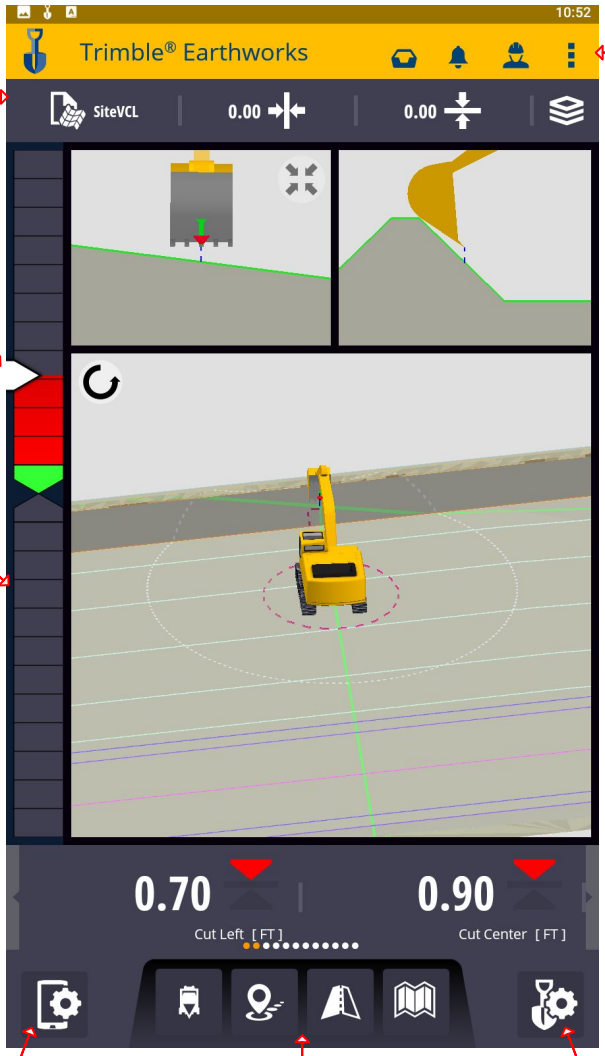
6. Touch Select



7. Touch Apply

8. Touch Start

Work Screen



Action Bar

Guidance Bar

Light Bars

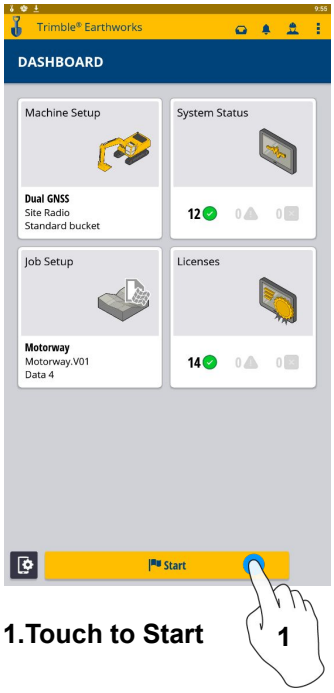
Ribbon Text

System settings

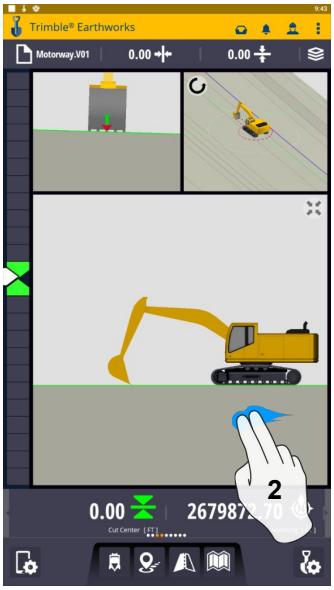
Shortcut Bar

Work Settings

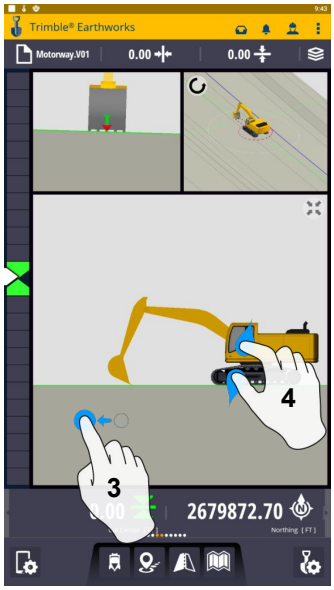
Work Screen Interface



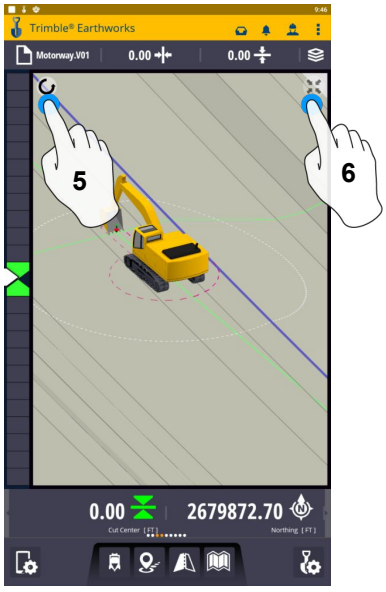
1.Touch to Start



2. 2 Finger Swipe to Change Views

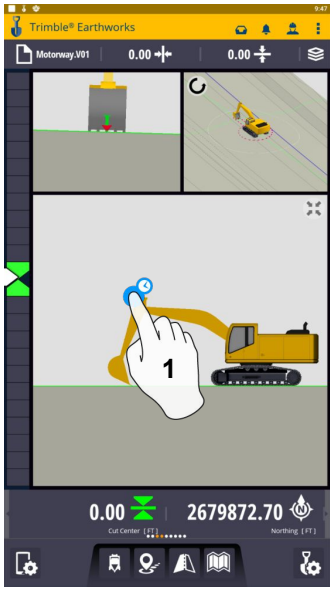


3. Drag to Pan
4. Pinch-Spread to Zoom in-out

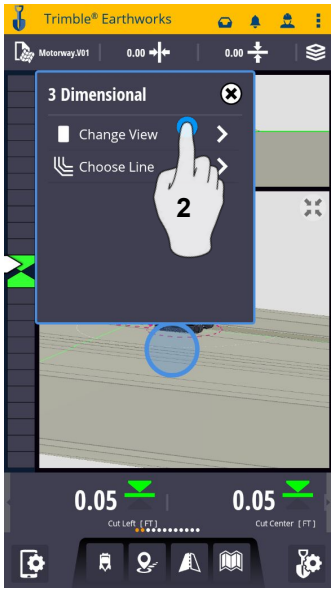


5. Touch to select Pan or Rotate
6. Touch to re-center

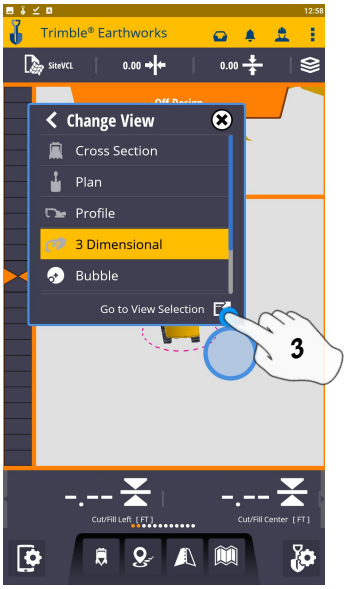
Work Screen Setup



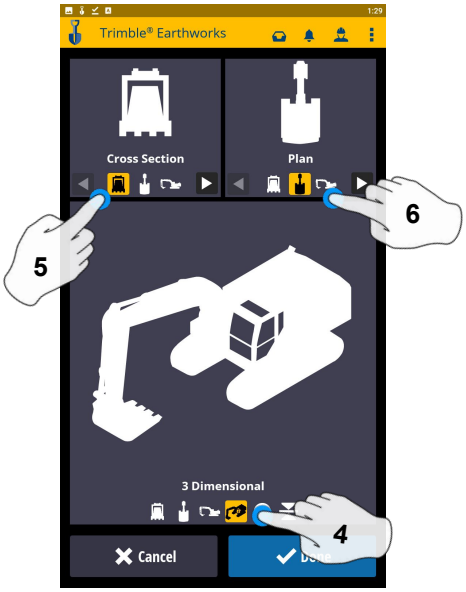
1. Touch and Hold



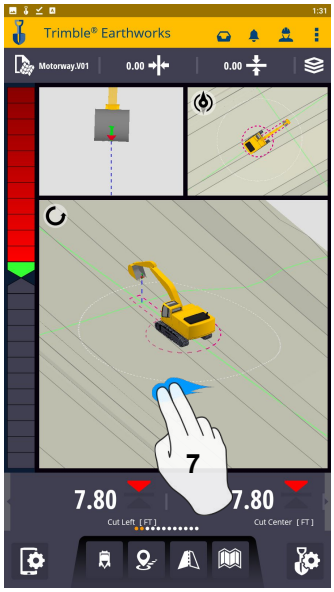
2. Change View



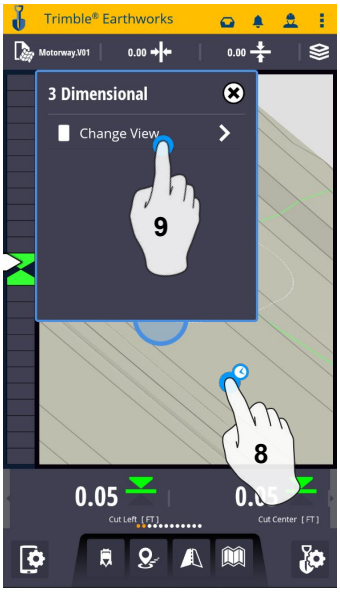
3. Touch View Selection



4. Touch 3 Dimensional
5. Touch Cross Section
6. Touch Plan



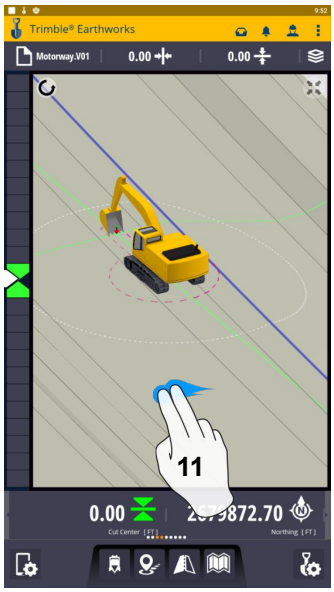
7. 2 finger swipe to 1 view screen



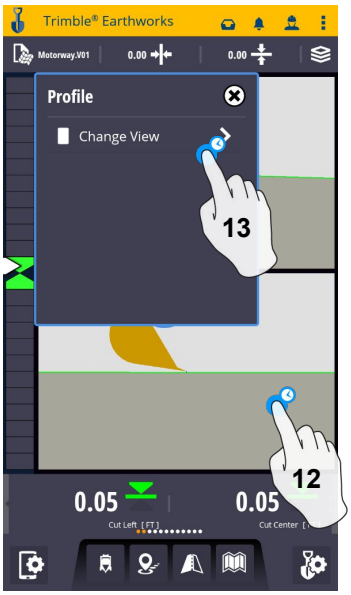
8. Touch and Hold
9. Change View

Work Screen Setup: Continued

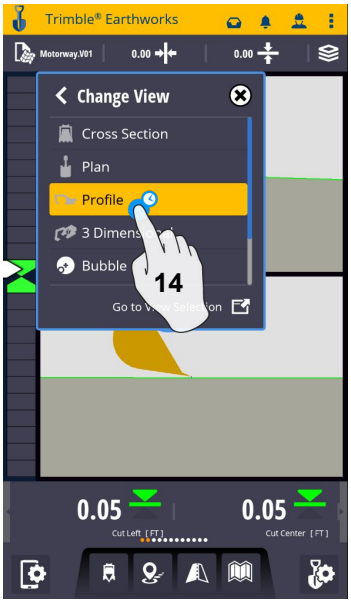
10. Touch 3D View



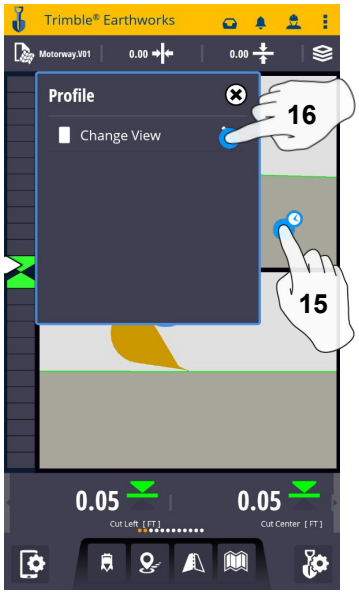
11. 2 Finger swipe to 2 view screen



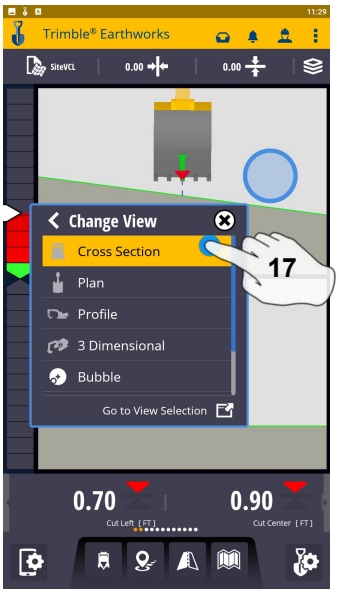
12. Touch and hold
13. Change View



14. Touch Profile

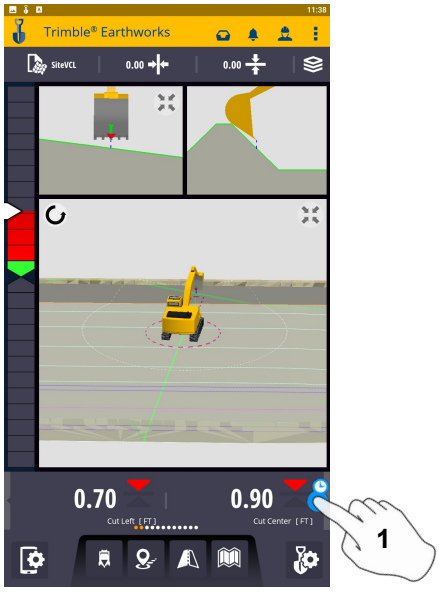


15. Touch and hold
16. Change View

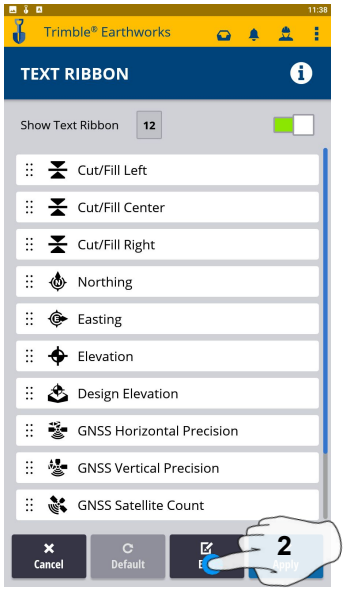


17. Touch Cross Section

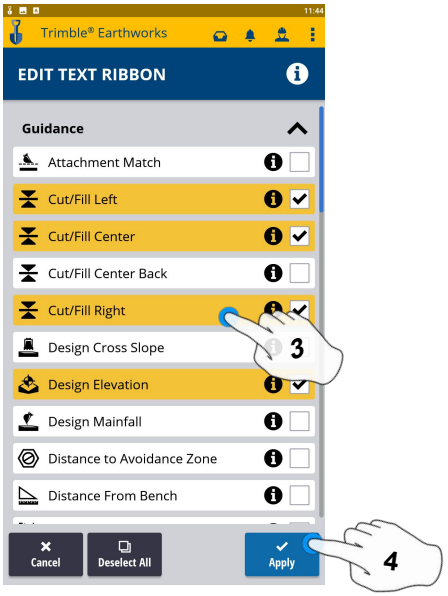
Text Ribbon Setup



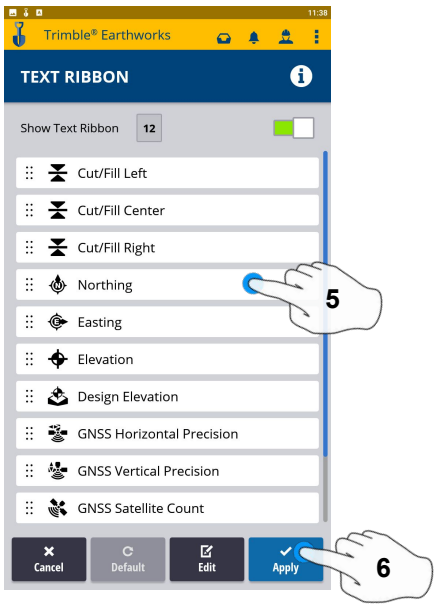
1. Touch and Hold Text Ribbon



2. Touch Edit

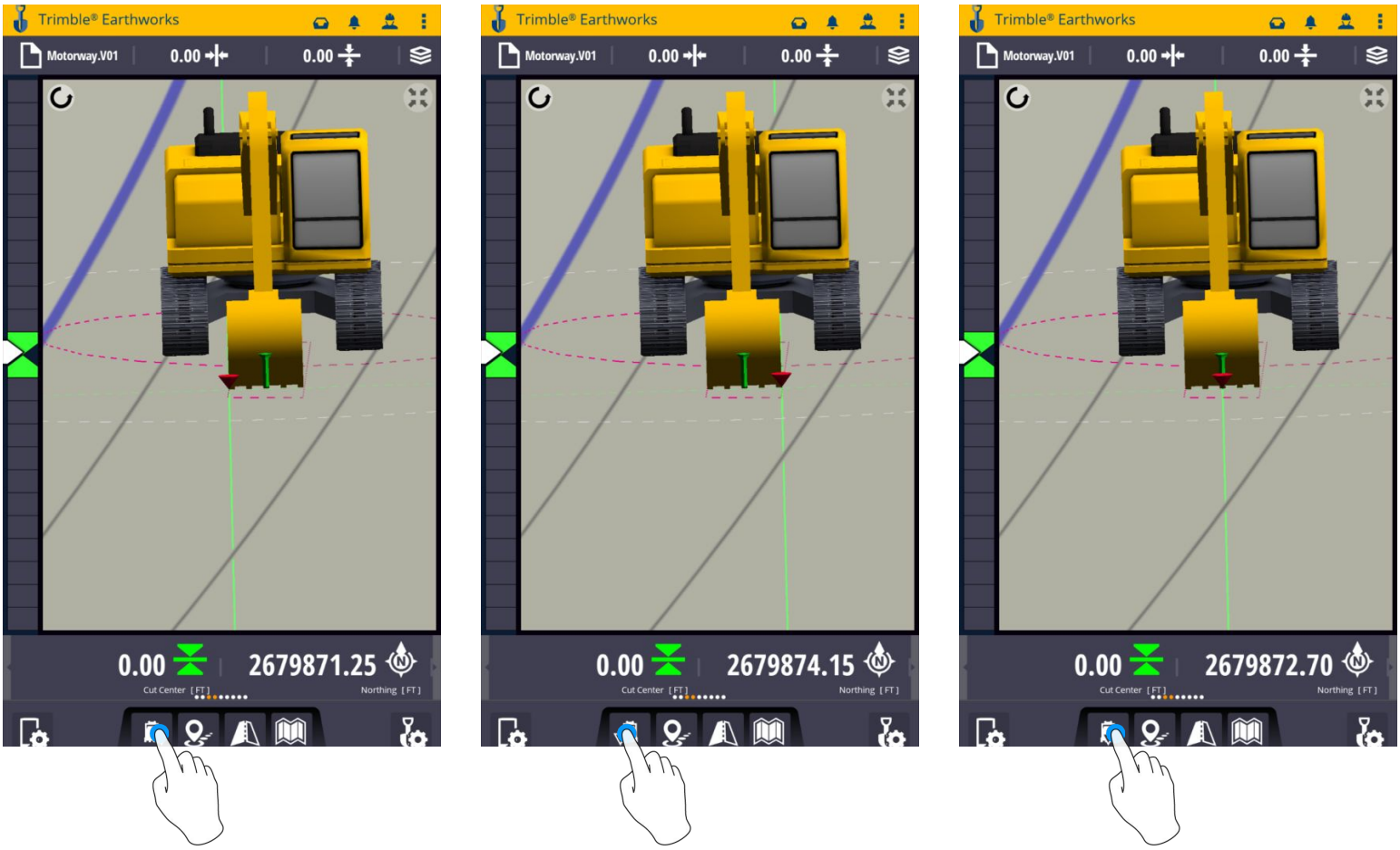


3. Touch each Text Item
   - Cut/Fill Center
   - Offline
   - Station
   - Northing
   - Easting
   - Elevation
   - Design Elevation
   - Vertical GNSS Precision
   - Satellite Count
4. Touch Apply



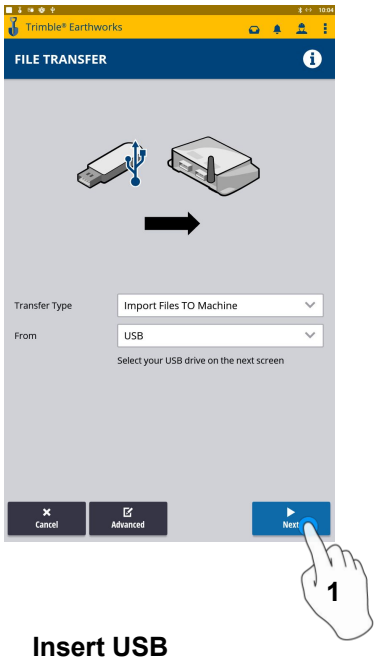
5. Touch-hold-drag to change position
6. Touch Apply

Focus Point

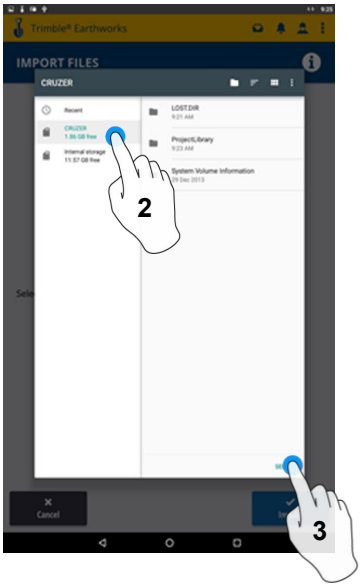


Touch Bucket Focus to Change Focus point

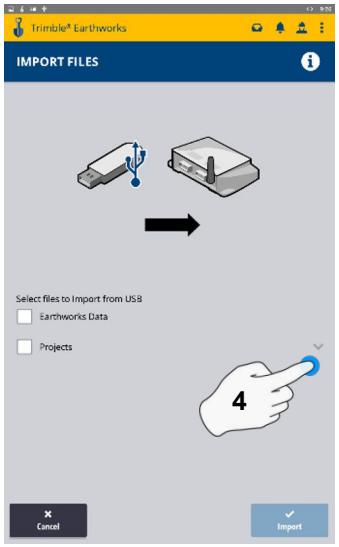
Import Data With USB



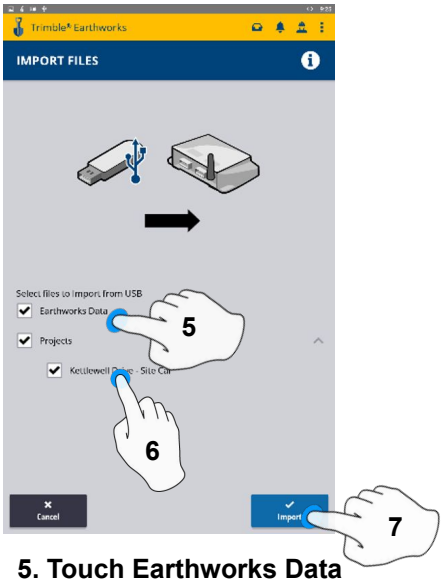
Insert USB
1. Touch Next



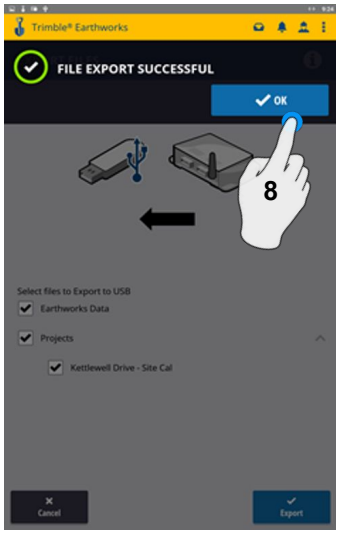
2. Touch USB
3. Touch Select



4. Touch "V"

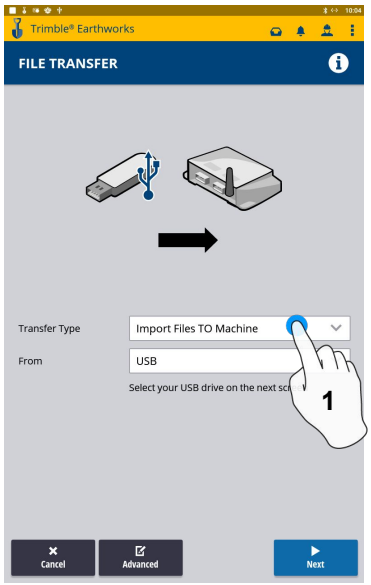


5. Touch Earthworks Data
6. Touch Project
7. Touch Import

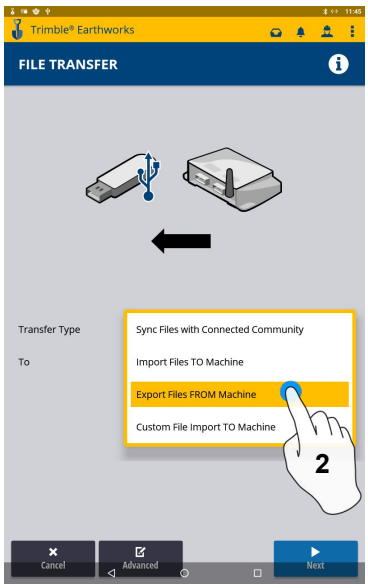


8. Touch OK

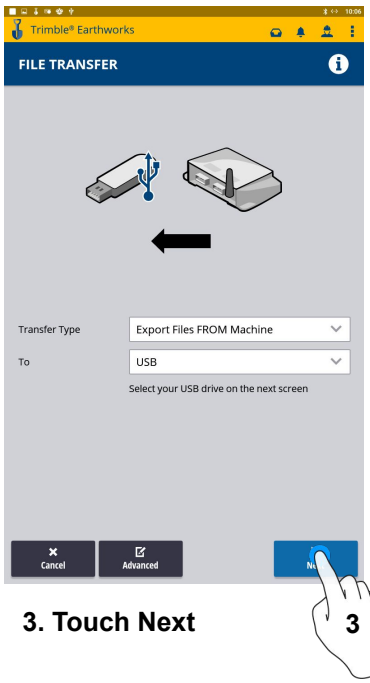
Export Data With USB



Insert USB
1. Touch Transfer Type

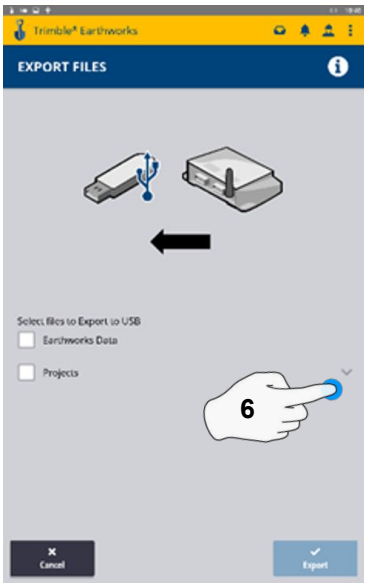


2. Touch Export Files

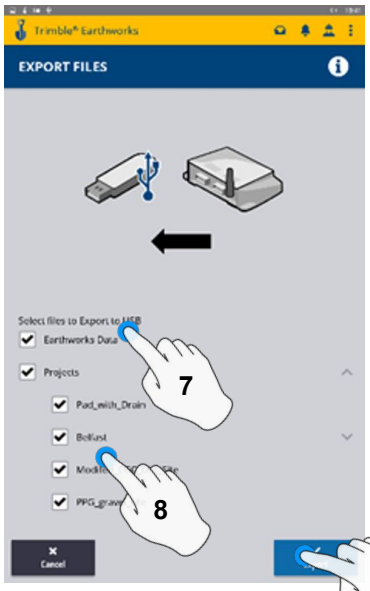


3. Touch Next

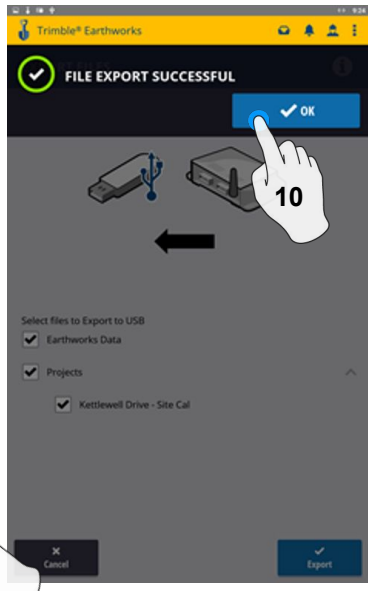
4. Touch USB
5. Touch Select



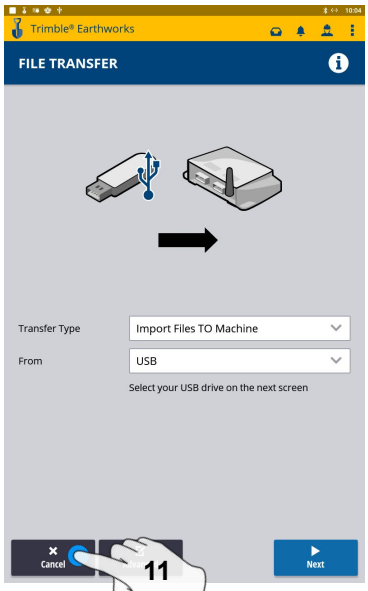
6. Touch "V"



7. Touch Earthworks Data
8. Touch Projects
9. Touch Export

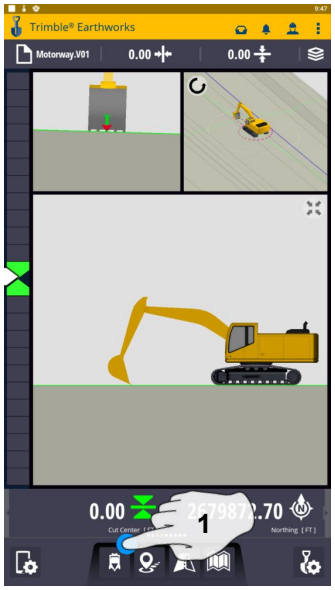


10. Touch OK

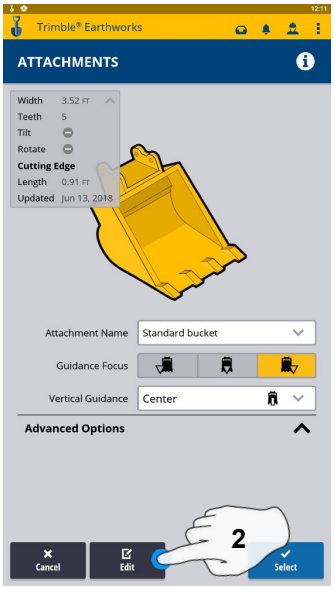


11. Touch Cancel
Remove USB

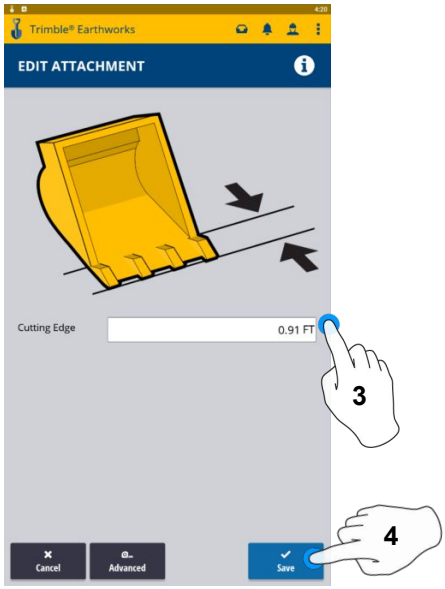
Cutting Edge Wear / Overcut Protection



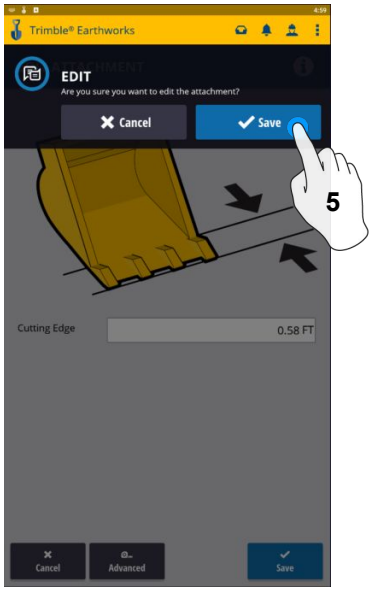
1. Touch and Hold Bucket Focus



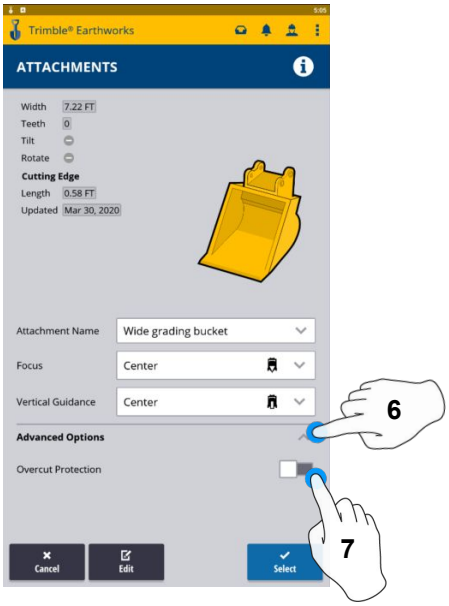
2. Touch Edit



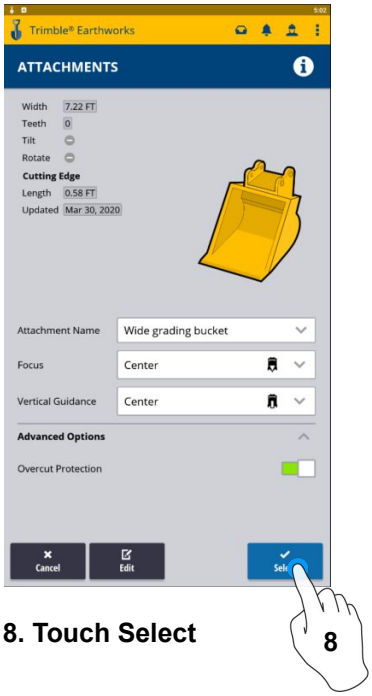
3. Enter Measured Length
4. Touch save



5. Touch Save



6. Touch Advanced Options
7. Touch Overcut protection to Turn On/Off



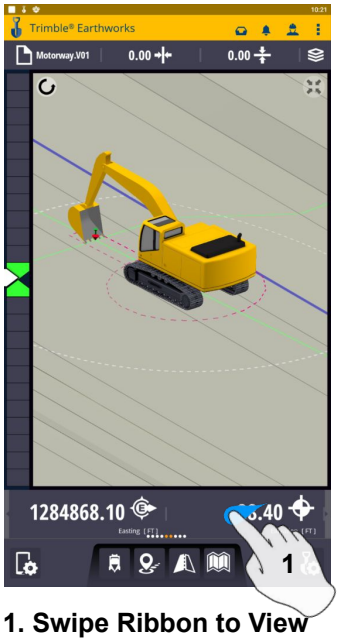
8. Touch Select

Verify System Accuracy

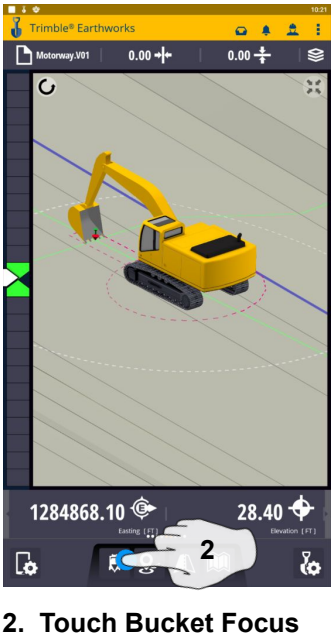
Verify the System accuracy by checking into a Bench Point



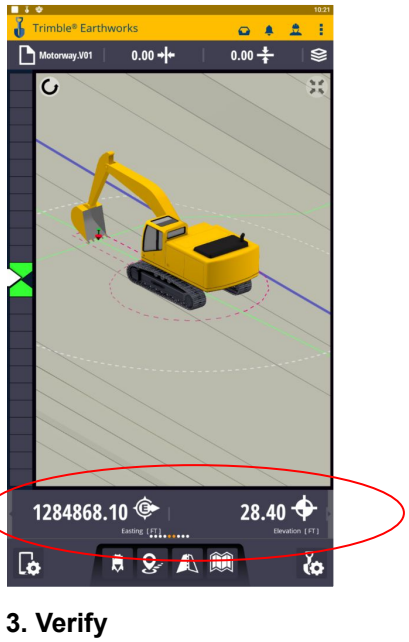
Position the Bucket Tip over the Bench point



1. Swipe Ribbon to View Northing, Easting, Elevation



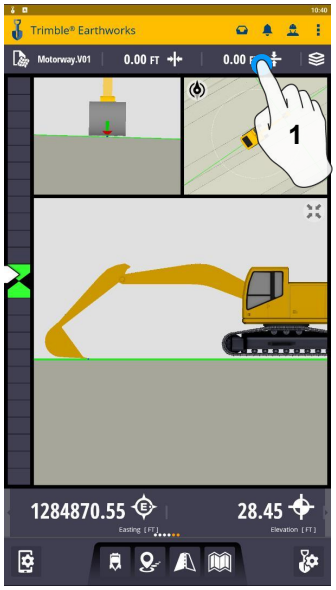
2. Touch Bucket Focus Select Point on Bucket to Measure



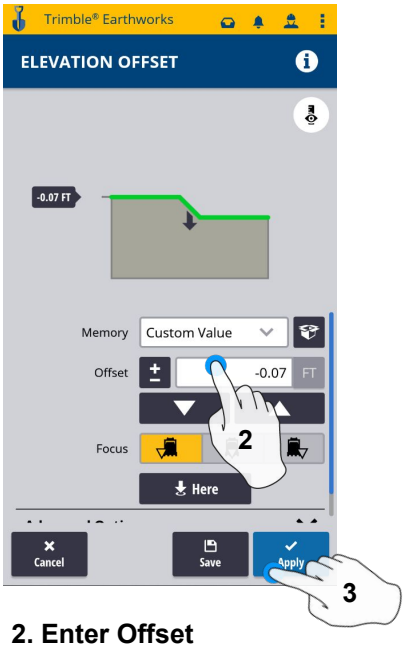
3. Verify Northing, Easting, Elevation

See Supervisor if Northing, Easting,and Elevation do not match Project Tolerances

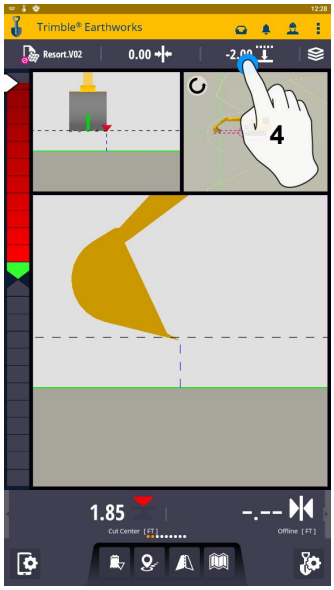
Vertical Offset / Memories



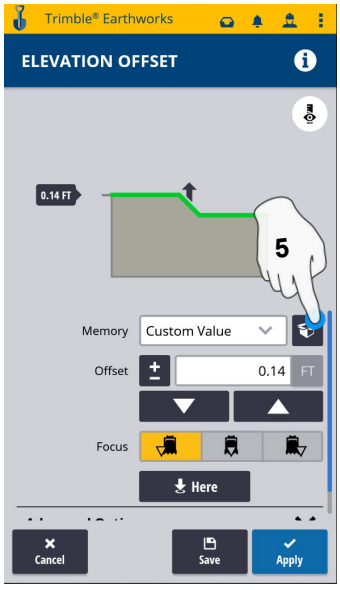
1. Touch and Hold Vertical Offset



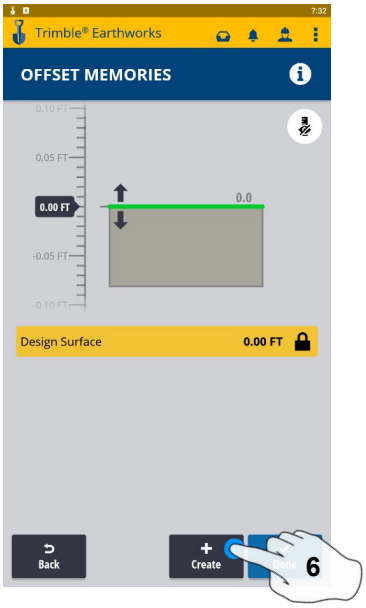
2. Enter Offset
3. Touch Apply to Use Immediately



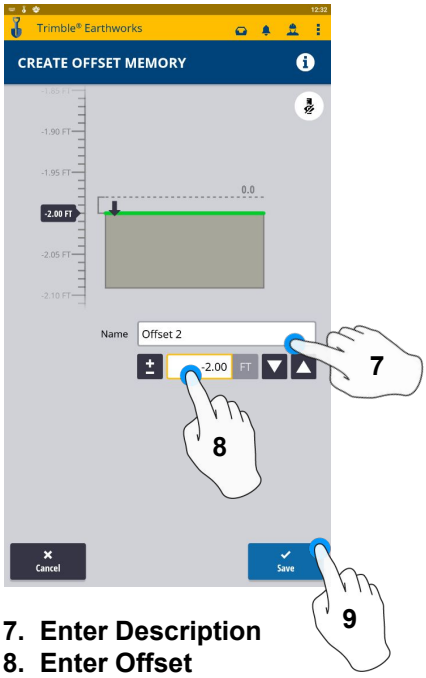
4. Touch and Hold Vertical Offset



5. Touch Memories

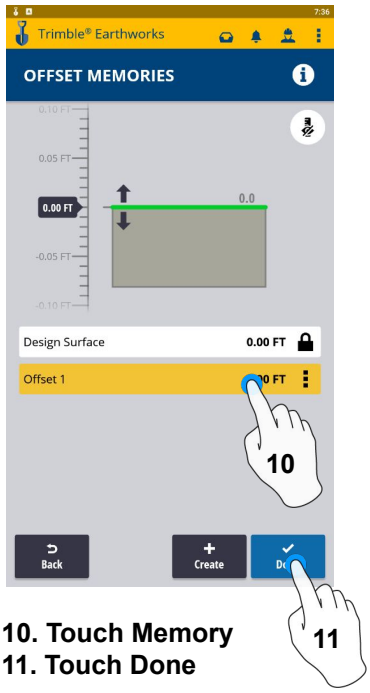


6. Touch Create to Add New Offset



7. Enter Description
8. Enter Offset
9. Touch Save

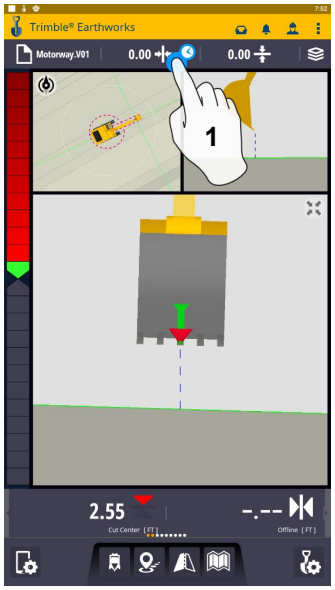
Vertical Offset / Memories Cont:



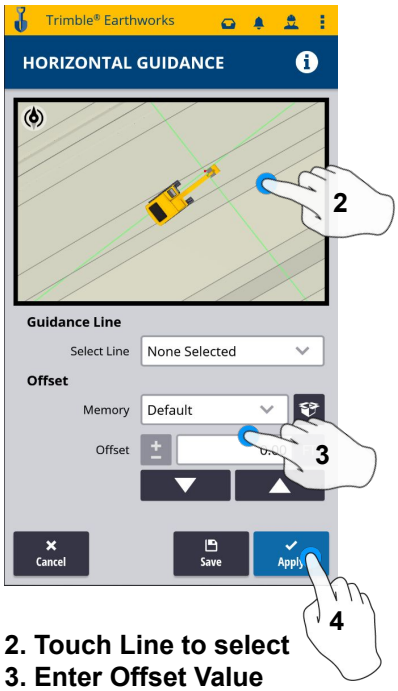
10. Touch Memory
11. Touch Done

12. Touch Apply

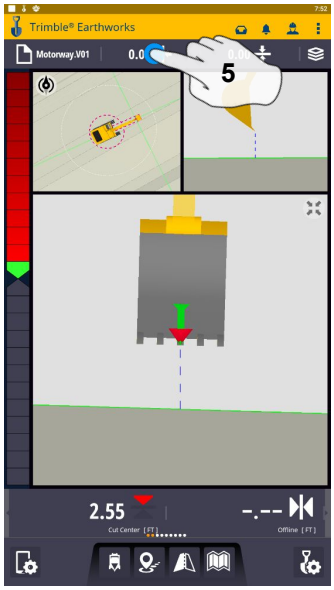
Horizontal Offset / Memories



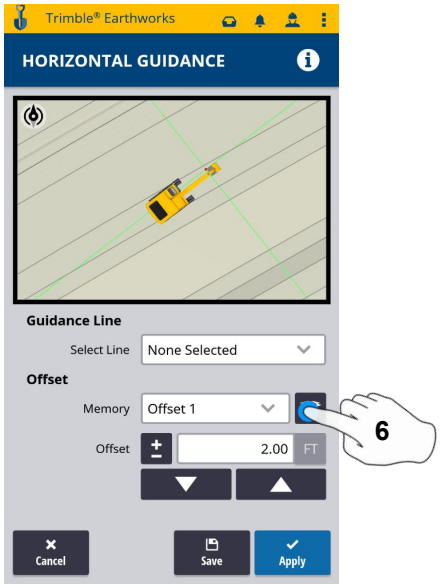
1. Touch and Hold Horizontal Offset or touch to cycle through memories



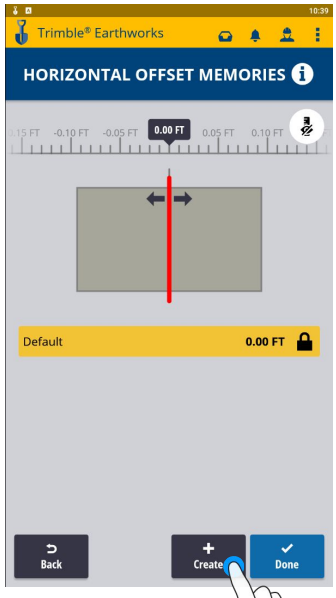
2. Touch Line to select
3. Enter Offset Value
4. Touch Apply to use immediately



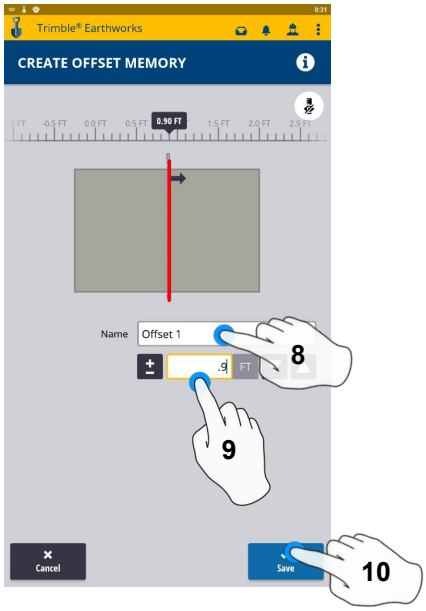
5. Touch and Hold Horizontal Offset



6. Touch Memories

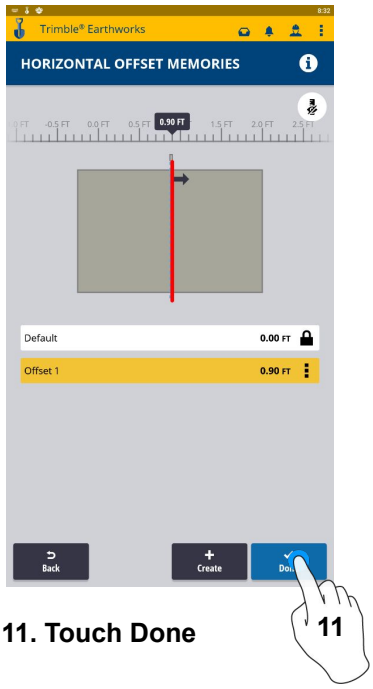


7. Touch Create



8. Name Offset to be saved
9. Enter Offset Value
10. Touch Save

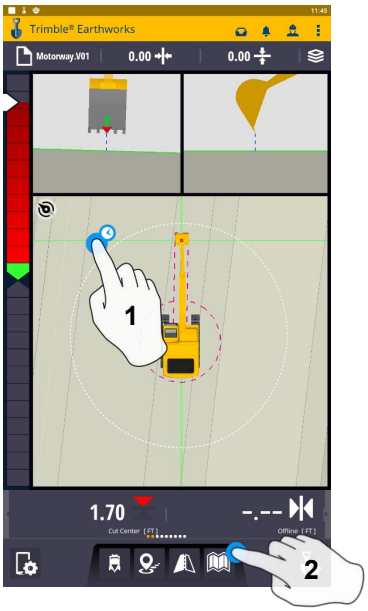
Horizontal Offset / Memories Cont:

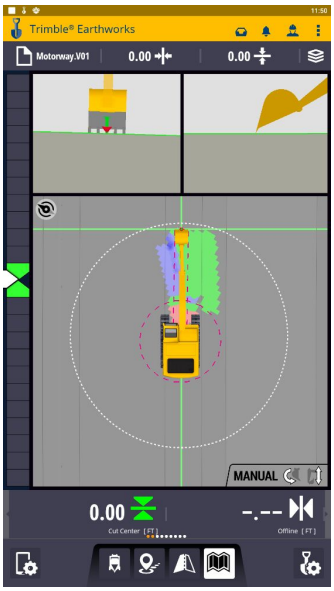


11. Touch Done

12. Touch Apply

Cut and Fill Mapping

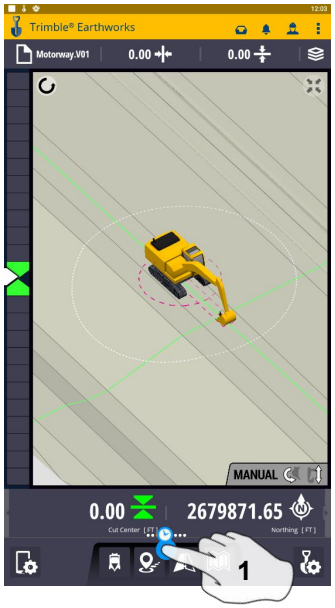




1. Touch and Hold screen to change to plan view
2. Press Mapping Icon to view

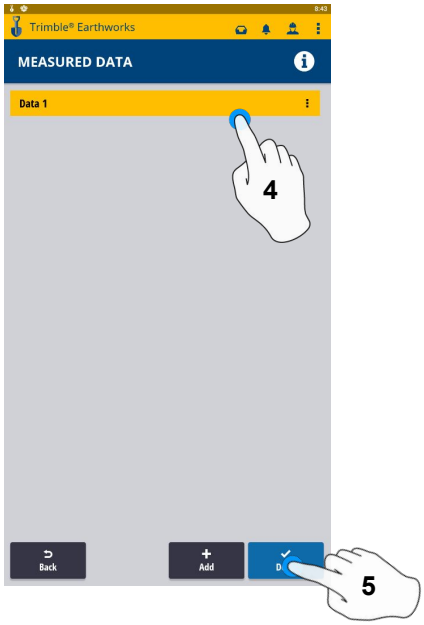
****Cut Fill Mapping will only be visible in Plan, Cross section, and Profile views****

Record Point

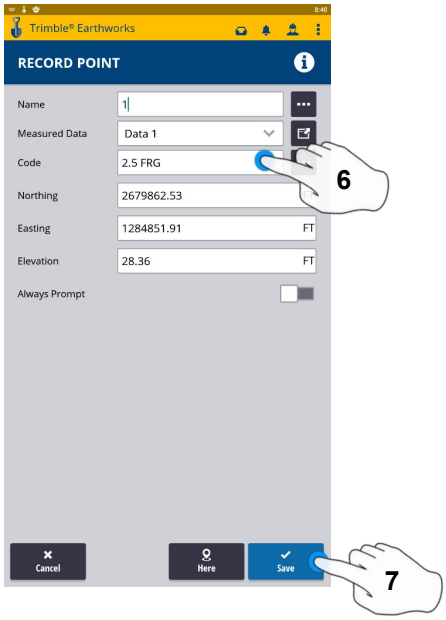


1. Press and Hold Record Point

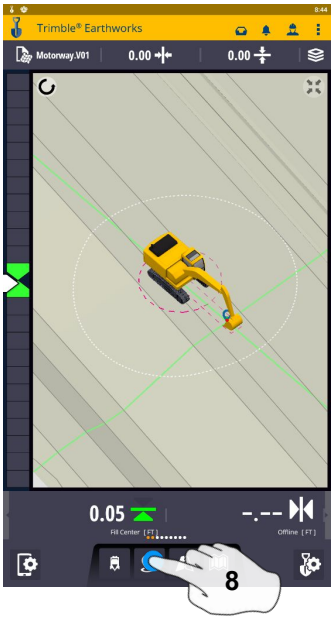
2.Touch to Edit Name
3.Select or create Measured Data



4. Select Measured Data Folder for Point location
5. Select done



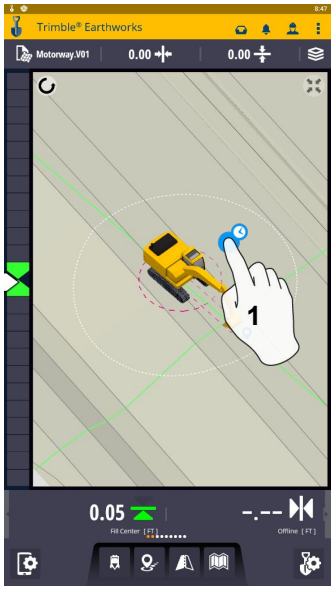
6. Type Code
7. Touch Save to record point



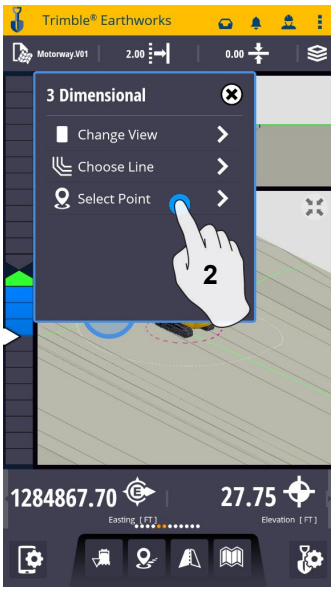
8. Touch Point Icon Records Point

**** Note- After recording a point, it will save automatically in the Measured Data folder Created during project setup. ****

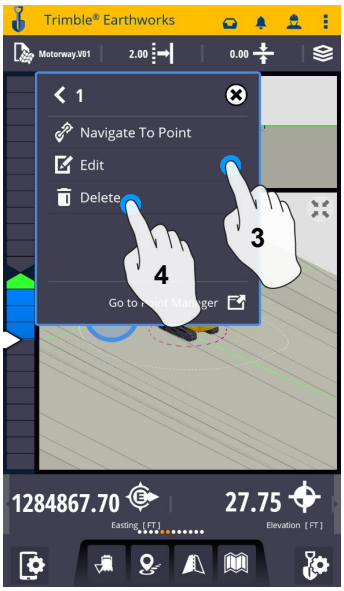
Delete / Edit Point



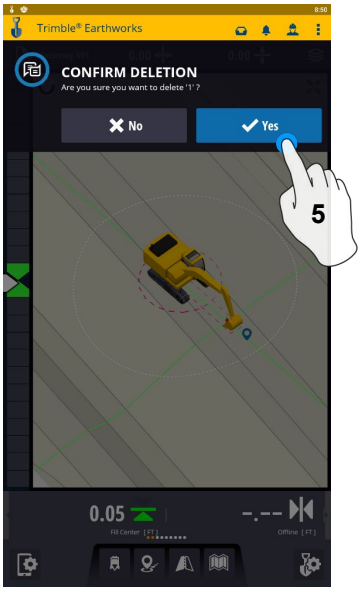
1. Touch and Hold over point

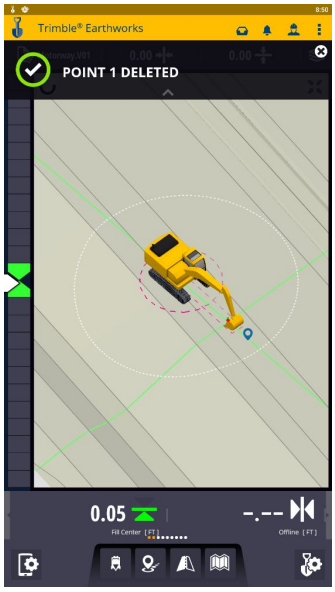


2. Touch point information



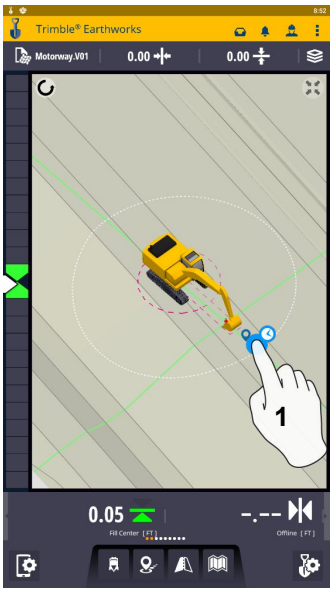
3. Edit point information if needed
4. Touch Delete



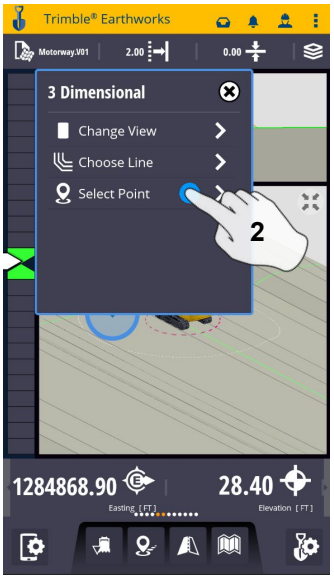


5. Confirm Delete
   (Once Deleted it can no longer viewed)

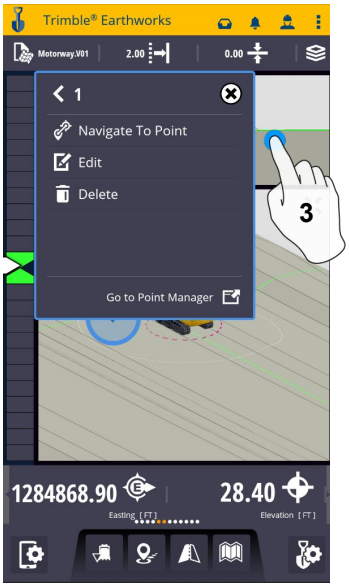
Navigate to Point



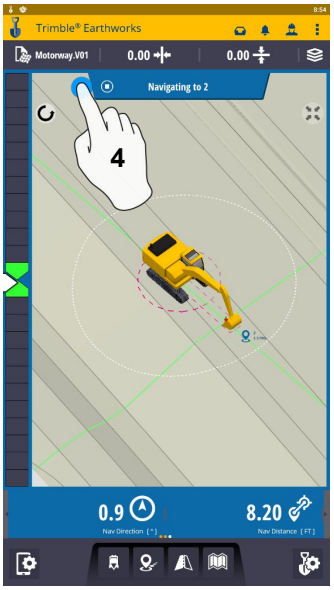
1. Touch and Hold on Point



2. Touch Point info

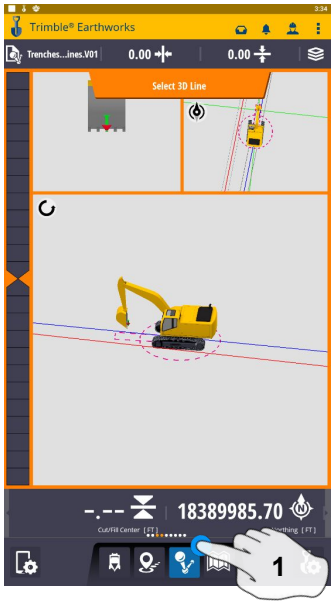


3. Touch Navigate to point

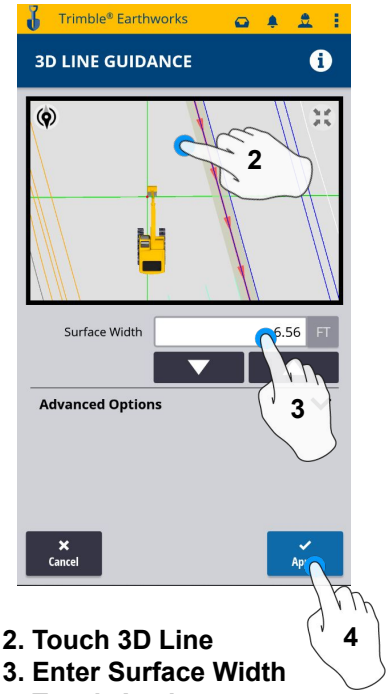


4. Touch Stop Icon once complete

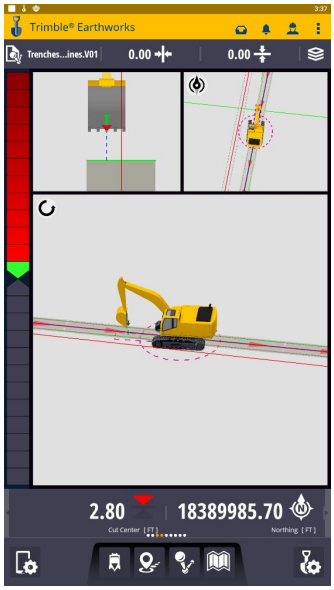
3D Line Guidance



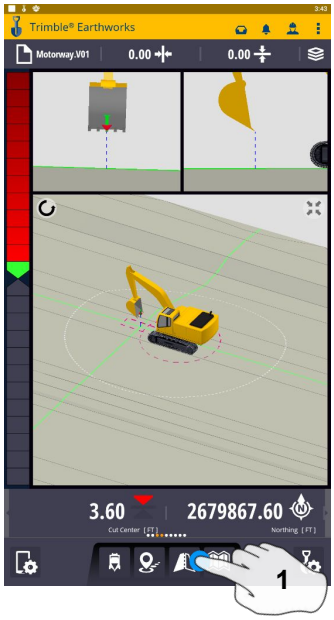
1. Touch 3D Line Select



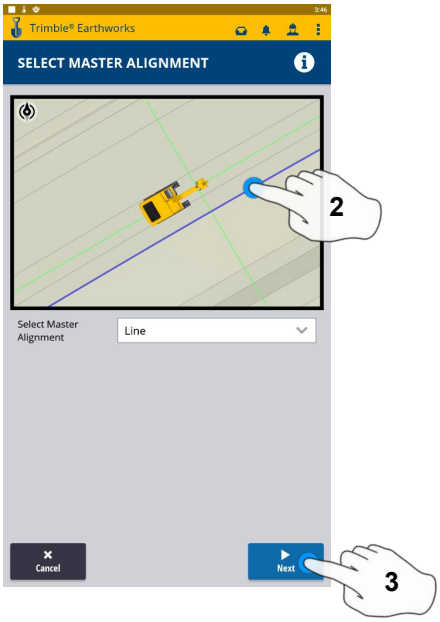
2. Touch 3D Line
3. Enter Surface Width
4. Touch Apply



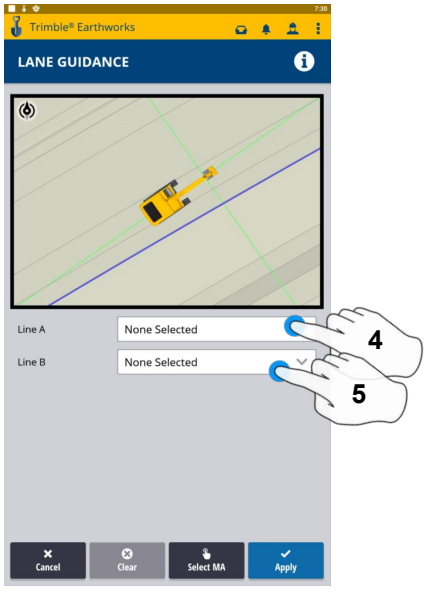
Lane Guidance



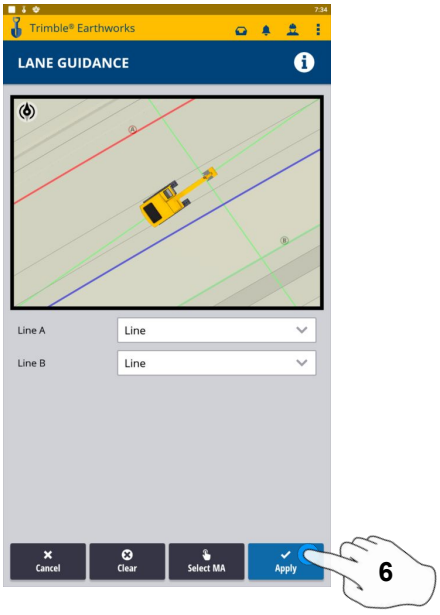
1. Touch and Hold Lane Guidance



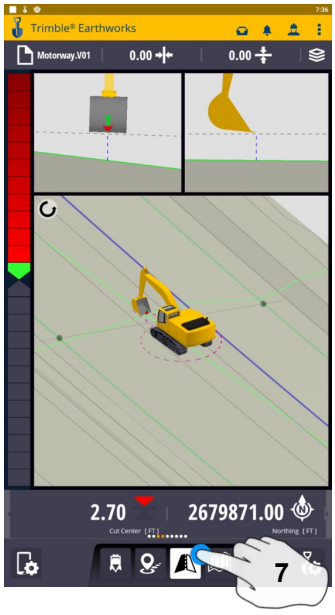
2. Select Master Alignment
3. Touch Next



4. Select Line A
5. Select Line B



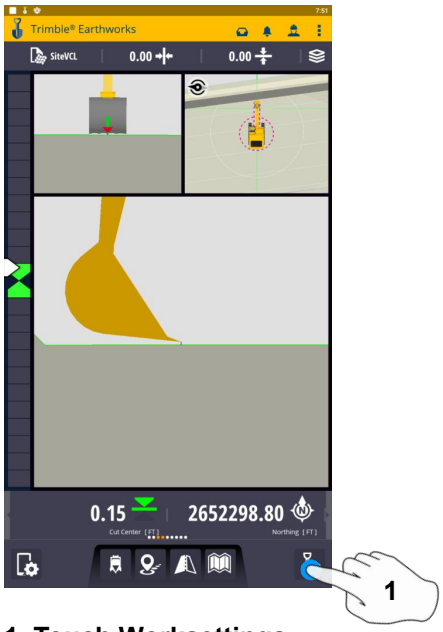
6. Touch Apply



7. Touch Lane Guidance icon to stop

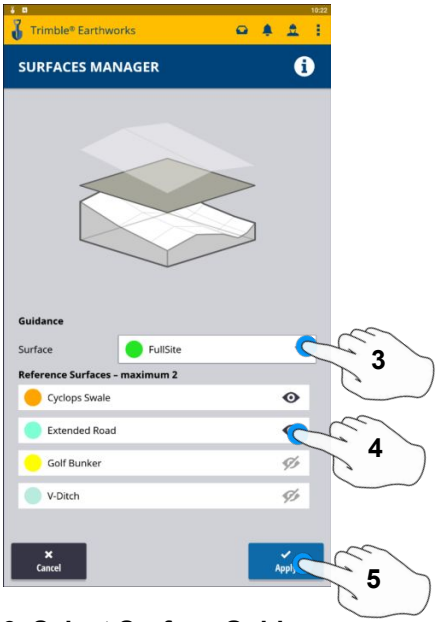
Note: Slope Between Alignment A and B will be projected slope

Surface Manager ** Will only work in VCL format Designs**



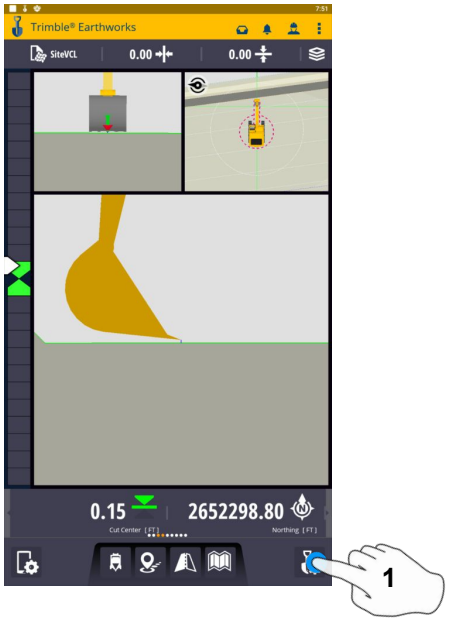
1. Touch Worksettings

2. Select Surface Manager

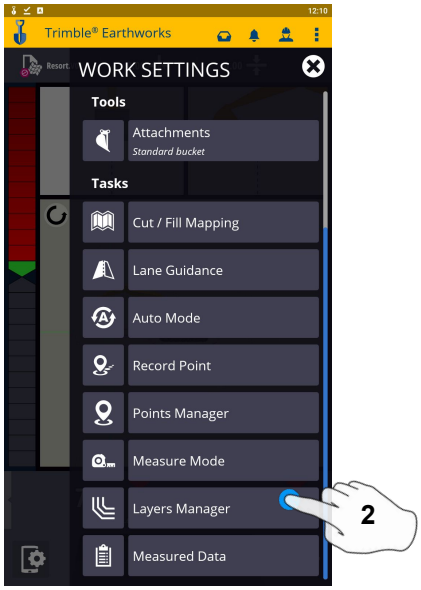


3. Select Surface Guidance
4. Select Reference Surface (Maximum of 2)
5. Touch Apply

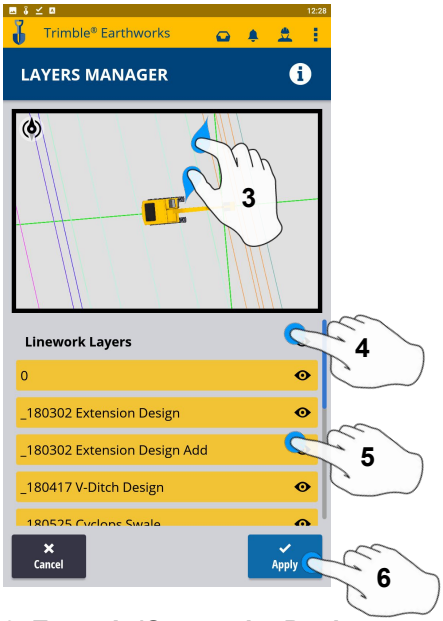
Layers Manager ** Will only work in VCL format Designs**



1. Select Worksettings

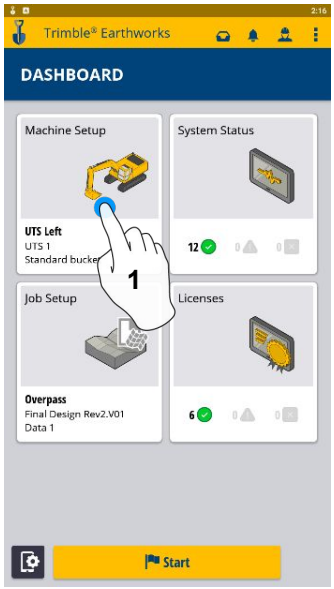


2. Select Layers Manager

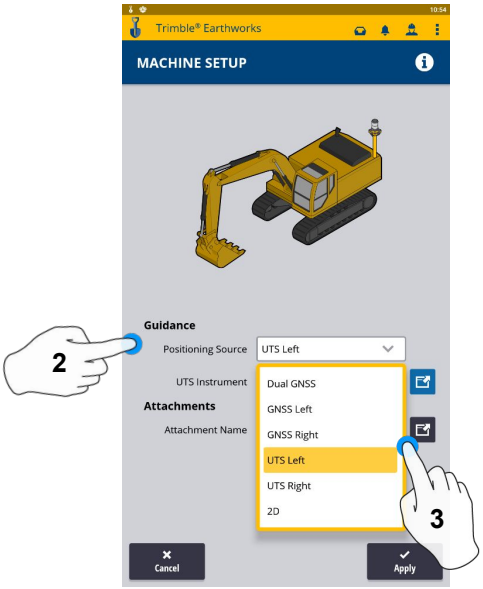


3. Zoom In/Out on the Design
4. Option to Select all Lines
5. Option to select individual Lines
6. Touch Apply

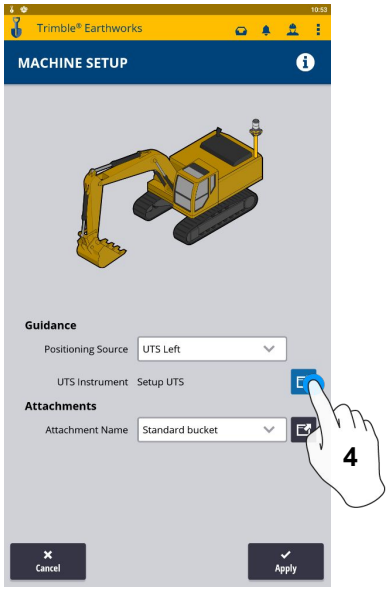
UTS Setup



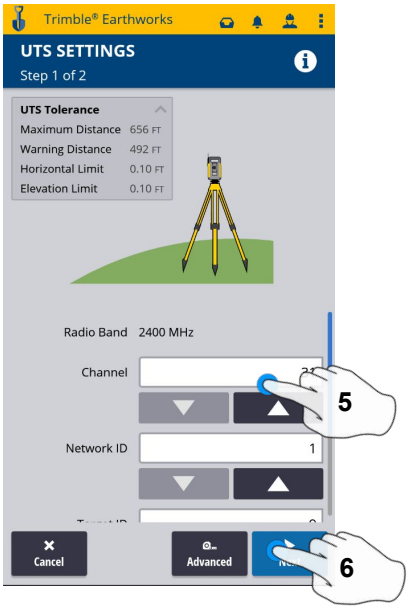
1. Touch Machine Setup



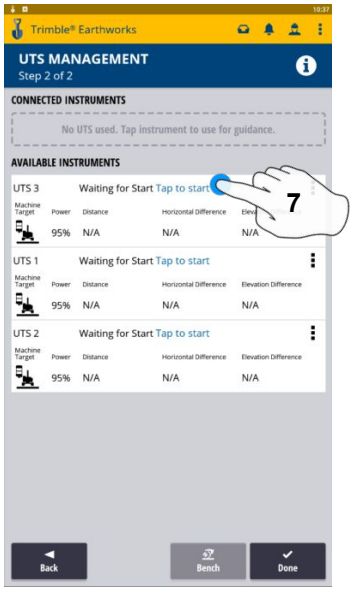
2. Touch Positioning Source
3. Touch UTS (Right or Left)



4. Touch to Edit / Add UTS

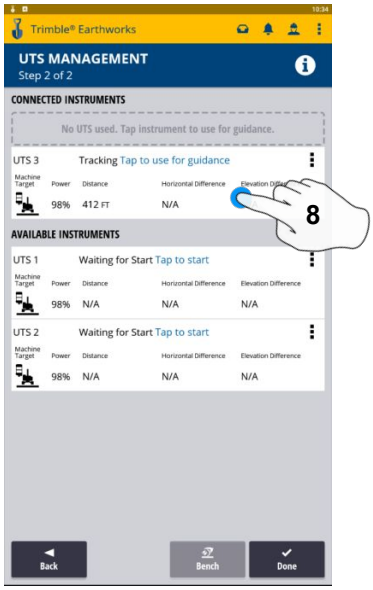


5.Select Channel / ID / Target ID
6.Touch Next

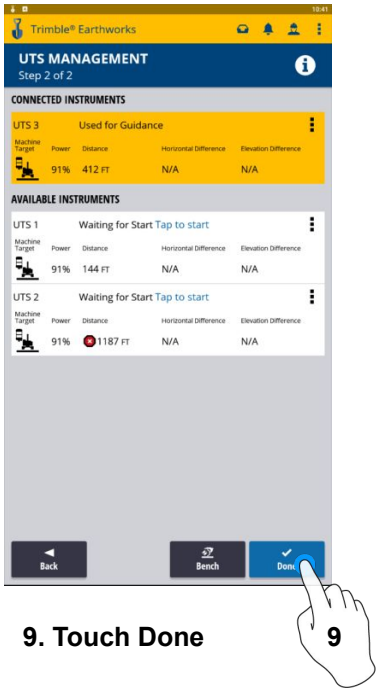


7. Tap to Start

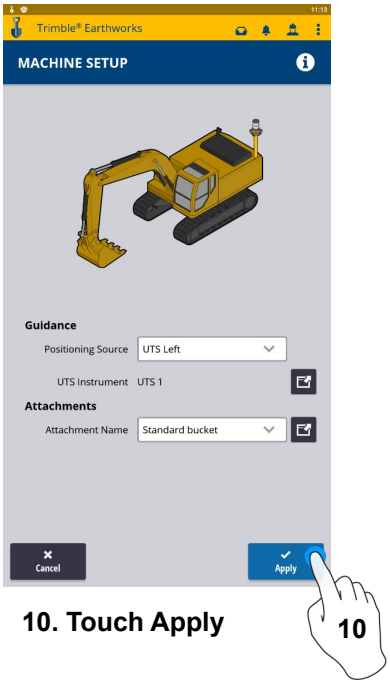
UTS Setup Cont:



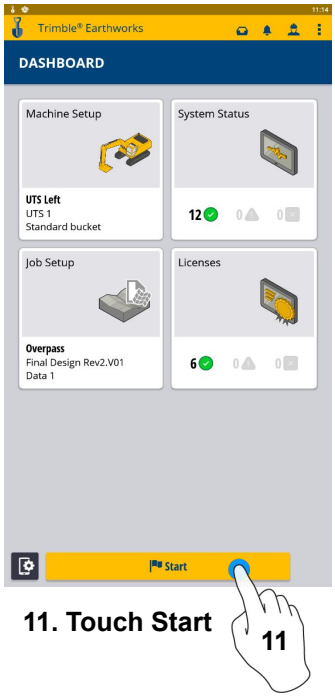
8. Tap to use for Guidance



9. Touch Done

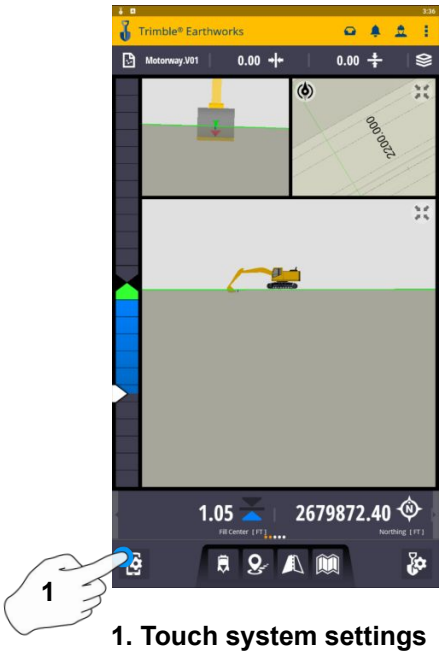


10. Touch Apply

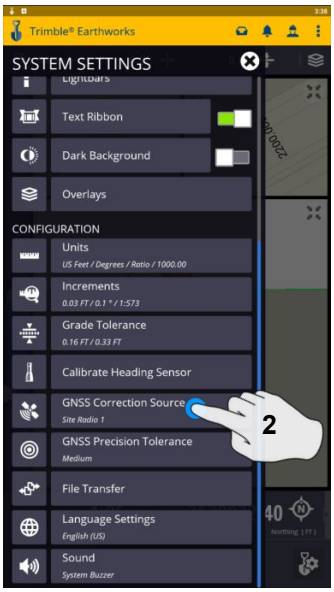


11. Touch Start

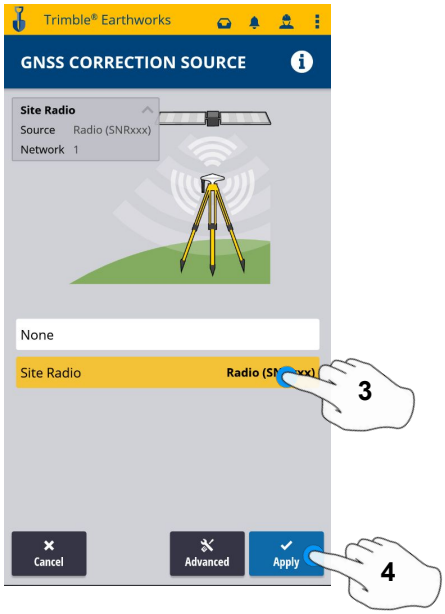
Change Radio Network (GNSS)



1. Touch system settings

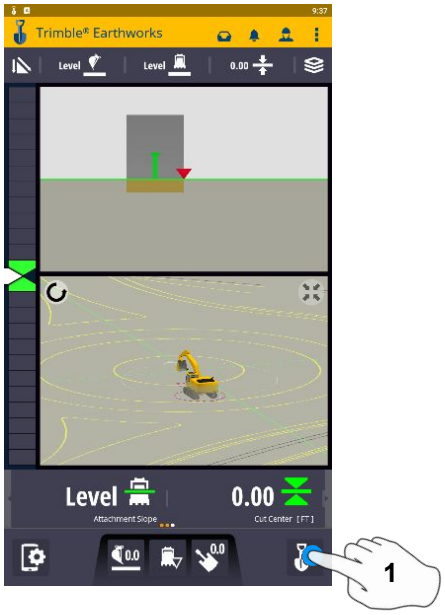


2. Touch GNSS correction source

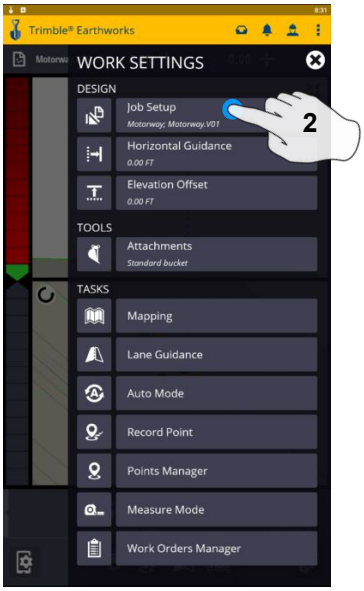


3. Touch Radio Network
4. Touch Apply

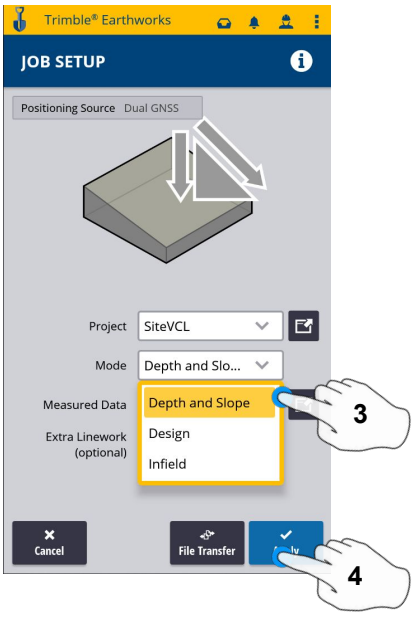
Level Surface



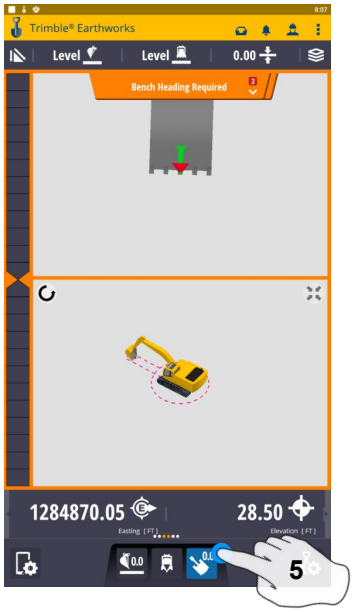
1. Touch Work Settings



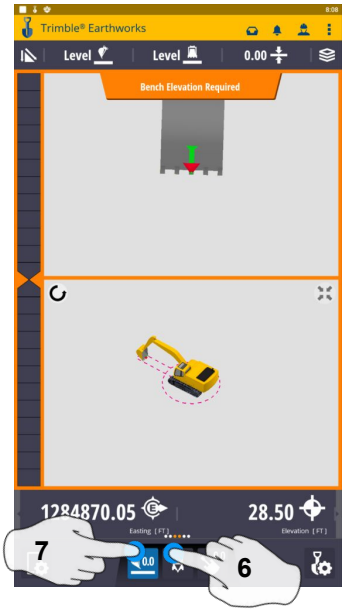
2. Touch Job setup



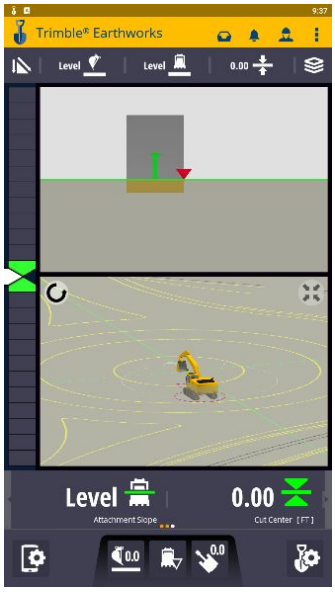
3. Touch Mode and select Depth and Slope
4. Touch Apply



5. Touch Bench Heading

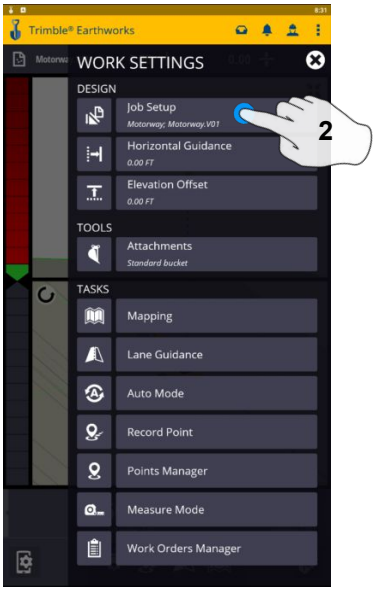


6. Select Blade Tip Focus Point
7. Place Blade Tip at Elevation and Touch Bench

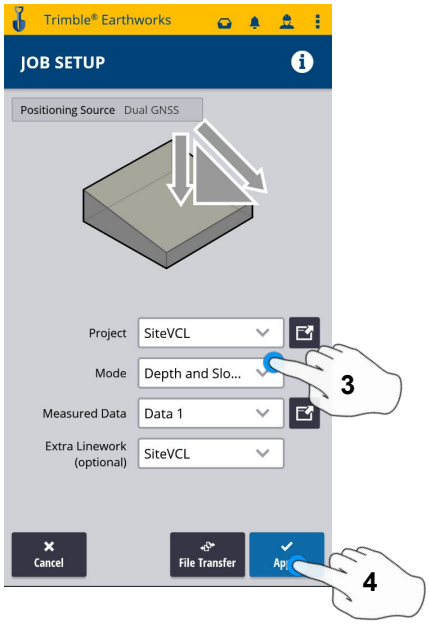


Sloping Surface

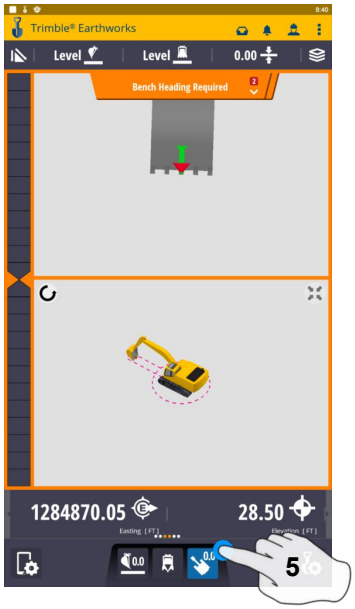
1. Touch Work Settings



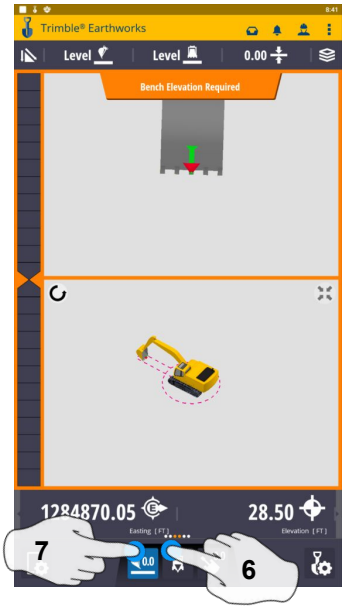
2. Touch Job setup



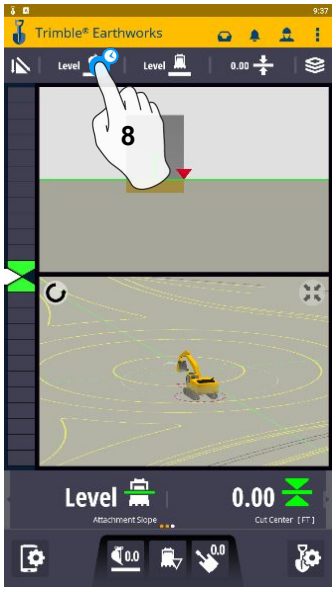
3. Touch Mode and select Depth and Slope
4. Touch Apply



5. Touch Bench Heading



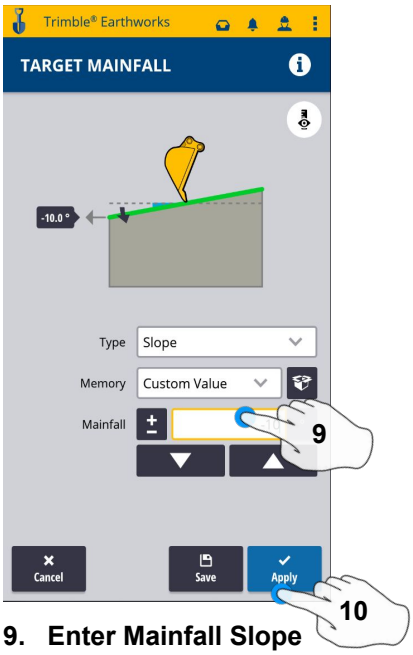
6. Select Blade Tip Focus Point
7. Place Blade Tip at Elevation and Touch Bench



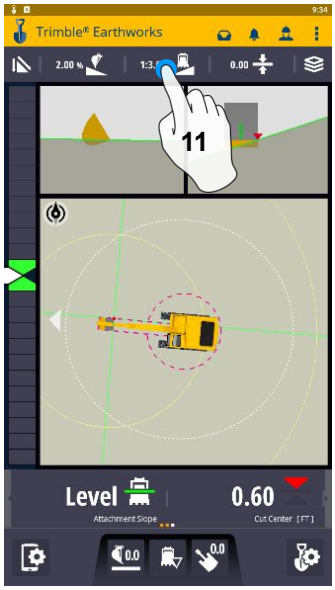
8. Touch and Hold Target Mainfall

Note: This will apply a slope parallel to the direction of heading

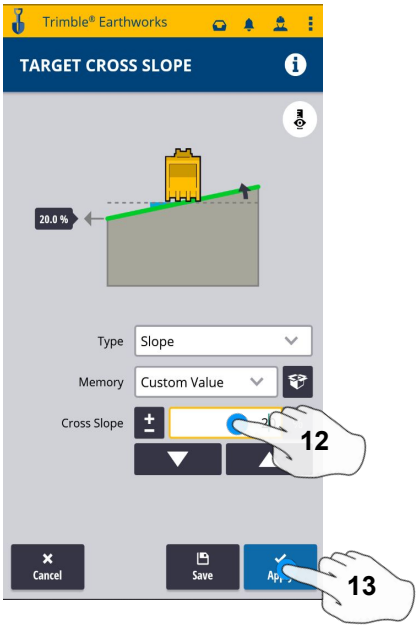
Sloping Surface Cont:



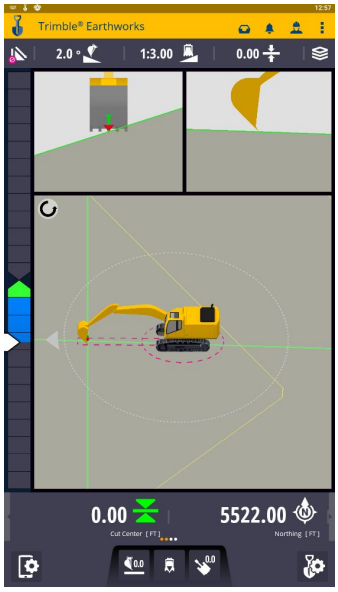
9. Enter Mainfall Slope
10. Touch Apply



11. Press and Hold Cross Slope
    Note: This will apply a slope perpendicular to the direction of the heading



12. Enter Cross Slope
13. Touch Apply



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