

TDS Recon Data Collection Steps Used in Performing Sideshots

***Before starting the survey make sure the data collector is set up to be used with the proper total station**

After turning TDS data collector on, open **Survey Pro**

Click on New

Name Job (ex. Albeck pond)

Azimuth type = North Azimuth

Units for Distances = US Survey Feet

Units for Angles = Degrees

Adjust for Earth Curvature unchecked

Use Scale Factor unchecked

Click next

Enter First Point: (this is the point where instrument is set over top of)

Point Name = 1

Northing = 5000.0 usft

Easting = 5000.0 usft

Elevation = 100.0 usft or whichever elevation you want to use

Description = Hub Set

Note: Once you set this up the first time it will become the default

Click Finish

Open Survey Box

Click on Backsight setup

Occupy Point = *Choose point 1, or the point you named above*

HI = *measure distance from hub set to eyepiece on total station*

HR = *measure height of rod with prism on it*

BS Direction = *0.00*

Click Circle

Backsight circle = *0.0000*

Click Send to Instrument

Close window...It will ask if you really want to close...Click Yes

Click on Traverse/Sideshot

Foresight = Point 2

Description = whatever point 2 is, usually another Hub Set or TBM

Height of Rod = Measure height of rod with prism on it (program uses what you entered in Backsight Setup)

Click on Side Shot

Click OK

Close Window

Open Backsight Setup

Click on BS Direction and BS Point will come up

Click on box...Choose point from list

Pick point #2

Click Solve

Close Backsight Setup

Close window...It will ask if you really want to close...Click Yes

Open Traverse/Sideshot

Begin taking other shots

Make sure when the height of rod changes you change it prior to taking the shot

If you need to complete a **turning point** follow these steps:

Open Traverse/Sideshot

Click on Traverse

Take the Shot

Click on Traverse Now

Move instrument to the point you just shot, traverse point (this is the point you will now be occupying)

Level instrument and measure distance for HI

Adjust sight of instrument to your backsight (normally a HUB or TBM)

Click Backsight Setup

Click on BS Point

Click on box...Choose point from list (use a HUB or TBM)

Click Circle

Enter 0.0000

Send to instrument

Close Backsight Setup

Close window...It will ask if you really want to close...Click Yes

Continue Surveying