CDOT Measure XY Distance Tool

This document guides you through measuring distances using the Measure XY Distance Tool.

Measure XY Distance

Opening in MicroStation

1. From the CDOT Menu select **Add On's > Measure XY Distance**
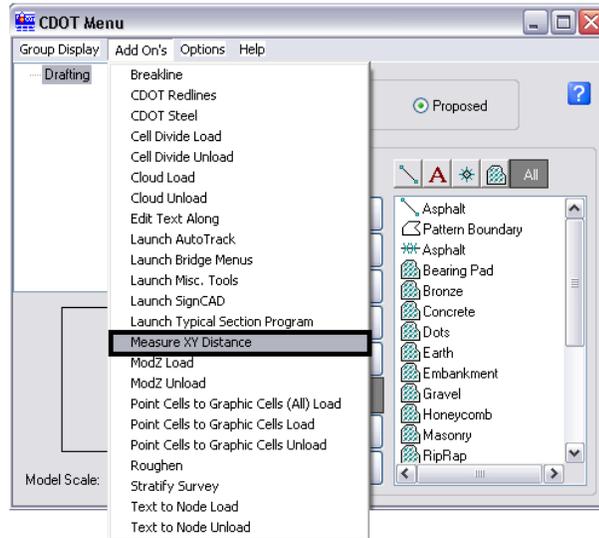
Opening in Redline

2. *From the CDOT Menu select* **Add On's > Measure XY Distance.**
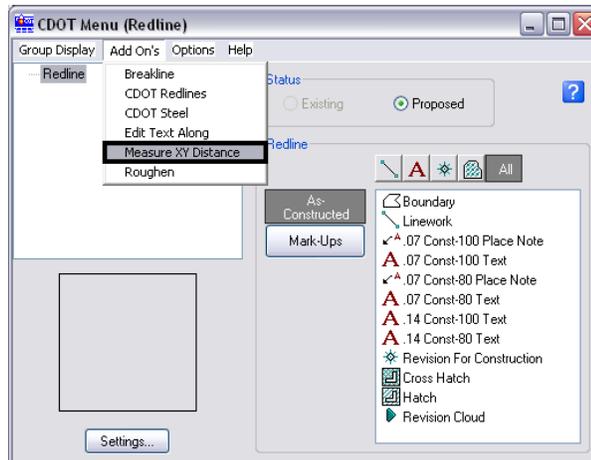
The **XY Distance** dialog should open.

Measuring Between Points

1. In the **XY Distance** dialog under *Measurement Options* select *Between points.*
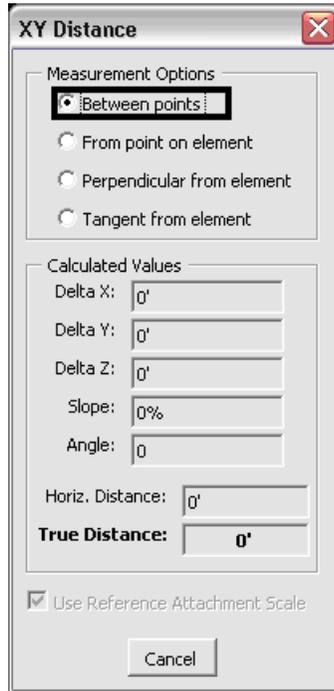
2. Enter any two points for measure in the design file and the *Calculated Values* screen will display data.
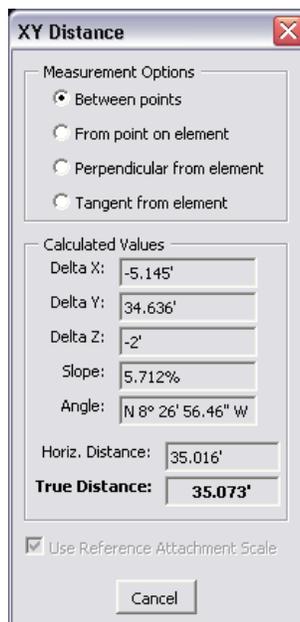
> **Note:** Distance and Angle values will be displayed based on Coordinate Readout settings establish in the design files settings. To change coordinate readout settings select **Settings > Design File** and choose *Coordinate Readout* in the *Category* list.

Measuring from Point on Element

1. In the **XY Distance** dialog under *Measurement Options* select *From point on element.*
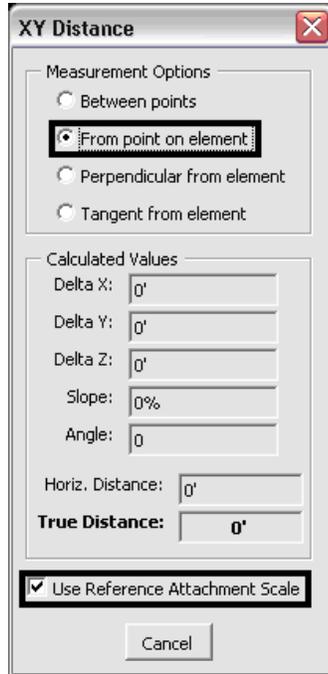
2. Choose either reference scale or design values by toggling the *Use Reference Attachment Scale* checkbox *on/off*. If the *Use Reference Attachment Scale* checkbox is *on* the *Calculated Values* will be scaled by the reference attachment scale.

3. Data point on an element to measure from in the design file.

4. Data point on any point or element to measure to in the design file. Data will display in the *Calculated Values* field.

> **Note:** Measurements with this method require selecting an element. If measuring between points choose **Between Points** in the **Measurement Options** field. If selecting an element in a reference attachment the **Locate** setting must be turned on for that attachment.

Measuring Perpendicular from Element

1. In the **XY Distance** dialog under *Measurement Options* select *Perpendicular from element.*
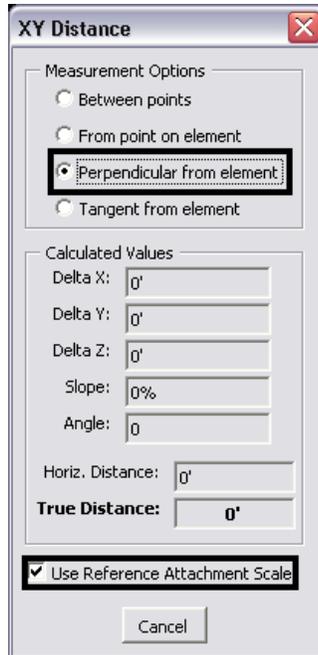
2. Choose either reference scale or design values by toggling the *Use Reference Attachment Scale* checkbox *on/off*.

3. Data point on an element to measure from in the design file.

4. Data point on any point or element perpendicular to measure to in the design file. Data will display in the *Calculated Values* field.

Measuring Tangent from Element

1. In the **XY Distance** dialog under *Measurement Options* select *Tangent from element.*
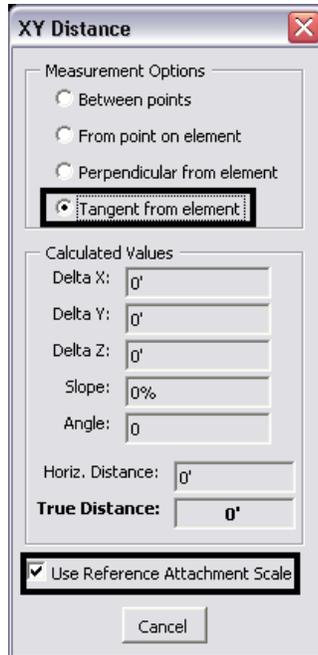
2. Choose either reference scale or design values by toggling the *Use Reference Attachment Scale* checkbox *on/off*.

3. Data point on any elliptical or circular element to measure from in the design file.

4. Data point on any point or element to measure to in the design file. Tangential distance and data will display in the *Calculated Values* field.