

## CIVIL LABELER

### MDOT Civil Labeler Notes

Civil Labeler is a new tool that Bentley created that creates many more options for creating dynamic labels that will adjust when the design changes. Below you will find images of the labels that MDOT has created. Please review the important notes below prior to using the tool

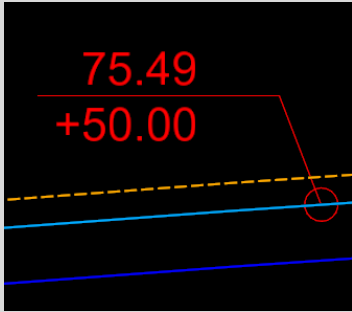
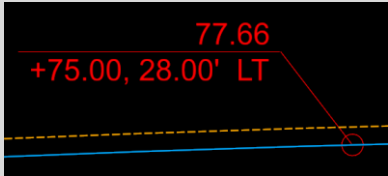
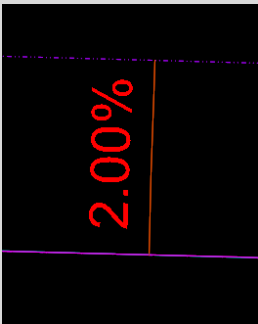
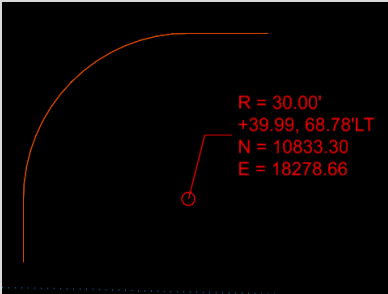
1. Labels will always be created on the active level and the active dimension style.
2. Always review the information that is on the "Placement" tab. There are many options for adding text frames, dividers, and setting associations. It is important to learn what these buttons do as it will influence the behavior of the label
3. New dimension styles have been created to help with placing labels. This includes:
  - a. **MDOT\_Mask\_Ft\_Straight\_Leader** – Used to place annotations with straight leaders. Often seen on Alignment sheets
  - b. **MDOT\_Mask\_Ft\_Term\_Circle** – Places a circle rather than an arrow for the terminator. Often seen on Profile sheets.
4. Leaders will not stay connected to text for any annotation that contains elevations in the plan view. This appears to be a bug in the CONNECT edition as of 2021 Release 1 (10.10.01.03). Bentley is aware of the issue
5. If Labels do not update immediately, try swapping between different models (I.E. Dynamic Profile Model or Default 3D Model) or re-open the file. This should trigger the labels to update

Please contact [MDOT-CADDSupport@Michigan.gov](mailto:MDOT-CADDSupport@Michigan.gov) for any questions or requests for new labels.



Plan View - Detail Grades		
Label Name	Image	Pick Order
Elevation		<ol style="list-style-type: none"> <li>1. Pick Terrain Model or Design Mesh (XS Component)</li> <li>2. Pick Point to Label</li> </ol>
Elevation - Offset		<ol style="list-style-type: none"> <li>1. Pick Terrain Model or Design Mesh (XS Component)</li> <li>2. Pick Alignment</li> <li>3. Pick Point to Label</li> </ol>
Elevation - Station (Full)		<ol style="list-style-type: none"> <li>1. Pick Terrain Model or Design Mesh (XS Component)</li> <li>2. Pick Alignment</li> <li>3. Pick Point to Label</li> </ol>
Elevation - Station (Full) Offset		<ol style="list-style-type: none"> <li>1. Pick Terrain Model or Design Mesh (XS Component)</li> <li>2. Pick Alignment</li> <li>3. Pick Point to Label</li> </ol>



Plan View - Detail Grades		
Label Name	Image	Pick Order
Elevation - Station (Partial)		<ol style="list-style-type: none"> <li>1. Pick Terrain Model or Design Mesh (XS Component)</li> <li>2. Pick Alignment</li> <li>3. Pick Point to Label</li> </ol>
Elevation - Station (Partial) Offset		<ol style="list-style-type: none"> <li>1. Pick Terrain Model or Design Mesh (XS Component)</li> <li>2. Pick Alignment</li> <li>3. Pick Point to Label</li> </ol>
Line Slope		<ol style="list-style-type: none"> <li>1. Pick Line with Profile (Must be 3D Line Referenced into 2D View)</li> <li>2. Data Point Anywhere</li> </ol>
Radius Callout		<ol style="list-style-type: none"> <li>1. Pick Arc Element (Radius)</li> <li>2. Pick Alignment</li> <li>3. Pick Center of Arc (Center Point Snap)</li> <li>4. Pick Center of Arc Again (Center Point Snap)</li> </ol>



Plan View - Drainage and Utilities		
Label Name	Image	Pick Order
Conduit - Arch		<ol style="list-style-type: none"> <li>1. Pick Conduit</li> <li>2. Datapoint Anywhere</li> </ol>
Conduit - Box		<ol style="list-style-type: none"> <li>1. Pick Conduit</li> <li>2. Datapoint Anywhere</li> </ol>
Conduit - Circular		<ol style="list-style-type: none"> <li>1. Pick Conduit</li> <li>2. Datapoint Anywhere</li> </ol>
Conduit - Ellipse		<ol style="list-style-type: none"> <li>1. Pick Conduit</li> <li>2. Datapoint Anywhere</li> </ol>



Plan View - Drainage and Utilities		
Label Name	Image	Pick Order
Node Label		<ol style="list-style-type: none"> <li>1. Pick Node</li> <li>2. Datapoint on Center of Structure</li> </ol>



Plan View - General		
Label Name	Image	Pick Order
Alignment Begin 1 Alignment		<ol style="list-style-type: none"> <li>1. Pick Alignment</li> <li>2. Pick Beginning of Alignment</li> </ol> <p>Note: This can also be used for the end of an alignment</p>
Alignment Begin 2 Alignments		<ol style="list-style-type: none"> <li>1. Pick alignment that you want to label</li> <li>2. Pick secondary alignment</li> <li>3. Pick Beginning of Alignment</li> </ol> <p>Note: This can also be used for the end of an alignment</p>
Alignment Curve Data		<ol style="list-style-type: none"> <li>1. Pick Curve that you want to label</li> <li>2. Datapoint Anywhere</li> </ol> <p>Note: This one is nice because it will never jump back to the default position</p>
Alignment Intersect		<ol style="list-style-type: none"> <li>1. Pick Alignment 1 (This one will appear on top in the Label)</li> <li>2. Pick Alignment 2</li> </ol>



Plan View - General		
Label Name	Image	Pick Order
Feature Name		<ol style="list-style-type: none"> <li>1. Pick Alignment (or any feature)</li> <li>2. Datapoint where you want the leader to start</li> </ol>
Northing - Easting		<ol style="list-style-type: none"> <li>1. Pick Alignment</li> <li>2. Pick Point to Label</li> </ol>
Rampt 2ft Pt		<ol style="list-style-type: none"> <li>1. Pick Mainline Alignment</li> <li>2. Pick Ramp Alignment</li> <li>3. Pick 2' Point</li> </ol>
Ramp 22ft Pt		<ol style="list-style-type: none"> <li>1. Pick Mainline Alignment</li> <li>2. Pick Ramp Alignment</li> <li>3. Pick 22' Point</li> </ol>



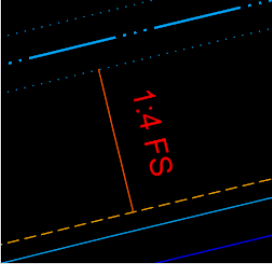
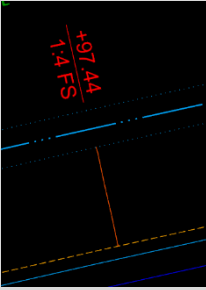
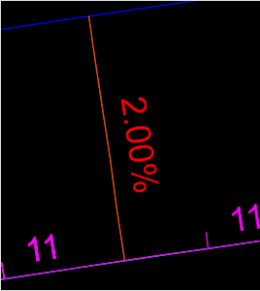
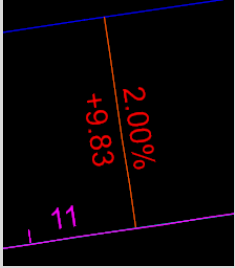
Plan View - General		
Label Name	Image	Pick Order
Station (Full)		<ol style="list-style-type: none"> <li>1. Pick Alignment</li> <li>2. Pick Point to Label</li> </ol>
Station (Full) - Offset		<ol style="list-style-type: none"> <li>1. Pick Alignment</li> <li>2. Pick Point to Label</li> </ol>
Station (Partial)		<ol style="list-style-type: none"> <li>1. Pick Alignment</li> <li>2. Pick Point to Label</li> </ol>
Station (Partial) - Offset		<ol style="list-style-type: none"> <li>1. Pick Alignment</li> <li>2. Pick Point to Label</li> </ol>





Plan View - Grading		
Note: All of these labels label 3D Lines. Give a 2D Line a Profile. Reference the 3D File into your Label File to read slopes from the 3D Lines		
Label Name	Image	Pick Order
Back Slope		<ol style="list-style-type: none"> <li>1. Pick 3D Backslope Line</li> <li>2. Datapoint Anywhere</li> </ol>
Back Slope +Station		<ol style="list-style-type: none"> <li>1. Pick Alignment</li> <li>2. Pick 3D Backslope Line</li> <li>3. Pick 3D Backslope Line Again to make it Tangent</li> </ol>
Ditch Slope		<ol style="list-style-type: none"> <li>1. Pick 3D Front Slope Line</li> <li>2. Pick 3D Back Slope Line</li> <li>3. Pick 3D Front Slope Line (To Make Label Tangent)</li> </ol>
Ditch Slope +Station		<ol style="list-style-type: none"> <li>1. Pick Alignment</li> <li>2. Pick 3D Front Slope Line</li> <li>3. Pick 3D Back Slope Line</li> <li>4. Pick 3D Front Slope Line Again (To make the label Tangent)</li> </ol>



Plan View - Grading		
Note: All of these labels label 3D Lines. Give a 2D Line a Profile. Reference the 3D File into your Label File to read slopes from the 3D Lines		
Label Name	Image	Pick Order
Front Slope		<ol style="list-style-type: none"> <li>1. Pick 3D Front Slope</li> <li>2. Datapoint Anywhere</li> </ol>
Front Slope +Station		<ol style="list-style-type: none"> <li>1. Pick Alignment</li> <li>2. Pick 3D Front Slope</li> <li>3. Pick 3D Front Slope Again to get accurate station</li> </ol>
Road Slope		<ol style="list-style-type: none"> <li>1. Pick 3D Road Slope</li> <li>2. Datapoint Anywhere</li> </ol>
Road Slope +Station		<ol style="list-style-type: none"> <li>1. Pick Alignment</li> <li>2. Pick 3D Road Slope</li> <li>3. Pick 3D Road Slope Again to get accurate station</li> </ol>



## Technical Support

**Please email any questions, issues or problems associated with this document to:**

[MDOT-EngineeringSupportTraining@Michigan.gov](mailto:MDOT-EngineeringSupportTraining@Michigan.gov)

**Additional Design Services Help and Support can also be obtained through the following email resources:**

[MDOT-BridgeDesignSupport@Michigan.gov](mailto:MDOT-BridgeDesignSupport@Michigan.gov) – For help with bridge design software, cells, levels, and workspace tools.

[MDOT-Drainage-Utility@Michigan.gov](mailto:MDOT-Drainage-Utility@Michigan.gov) – For help with GEOPAK Drainage, drainage cells and other subsurface utility modeling tools.

[MDOT-CaddSupport@Michigan.gov](mailto:MDOT-CaddSupport@Michigan.gov) – For help with cells, levels, line styles, dimensions, and other CADD and workspace tools.

[MDOT-RoadwayModelingSupport@Michigan.gov](mailto:MDOT-RoadwayModelingSupport@Michigan.gov) – For help with roadway modeling, modeling templates, civil cells and workspace tools.

[MDOT-Survey\\_Support@Michigan.gov](mailto:MDOT-Survey_Support@Michigan.gov) – For help with survey data, workflows and processes.