1_4 SIDEWALKS AND DRIVEWAYS

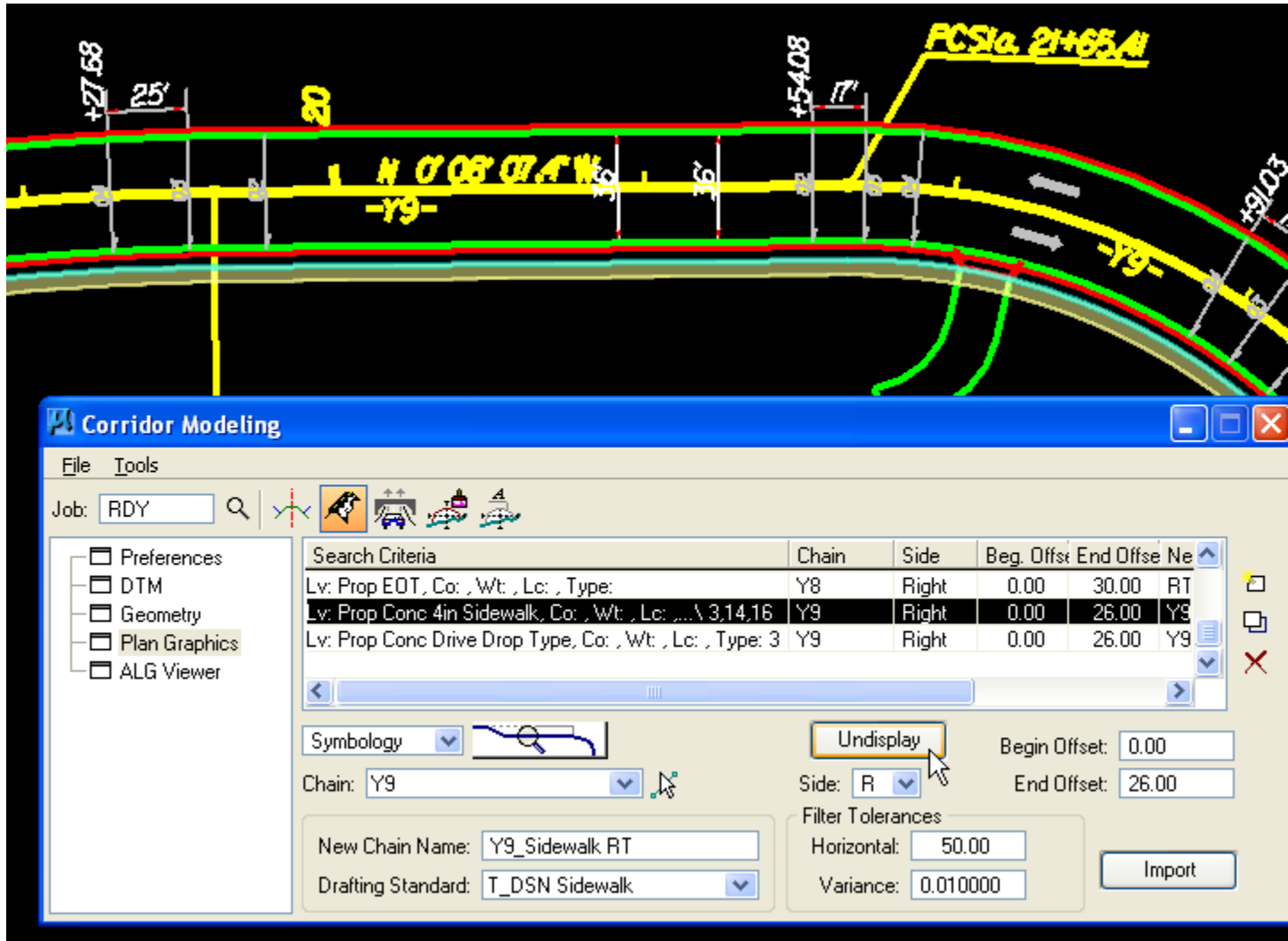**Question:**

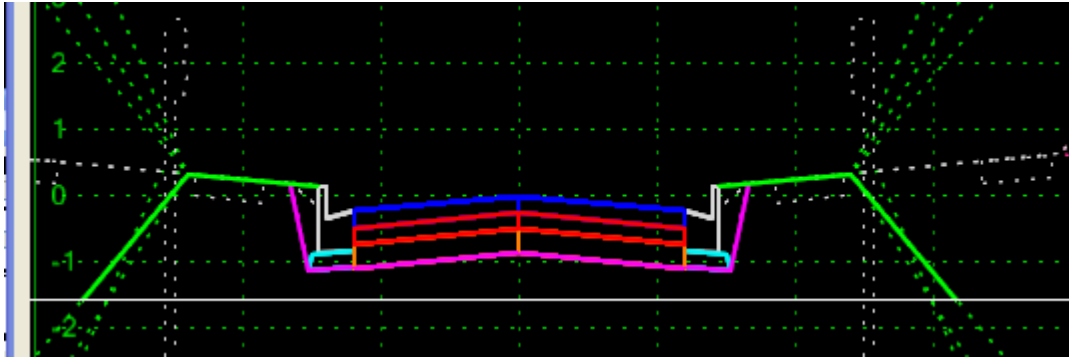How do sidewalks and driveways get incorporated into the 3D model?

Answer:

1. Sidewalks
For sidewalks, store only the inner sidewalk line as a targeting graphic chain.

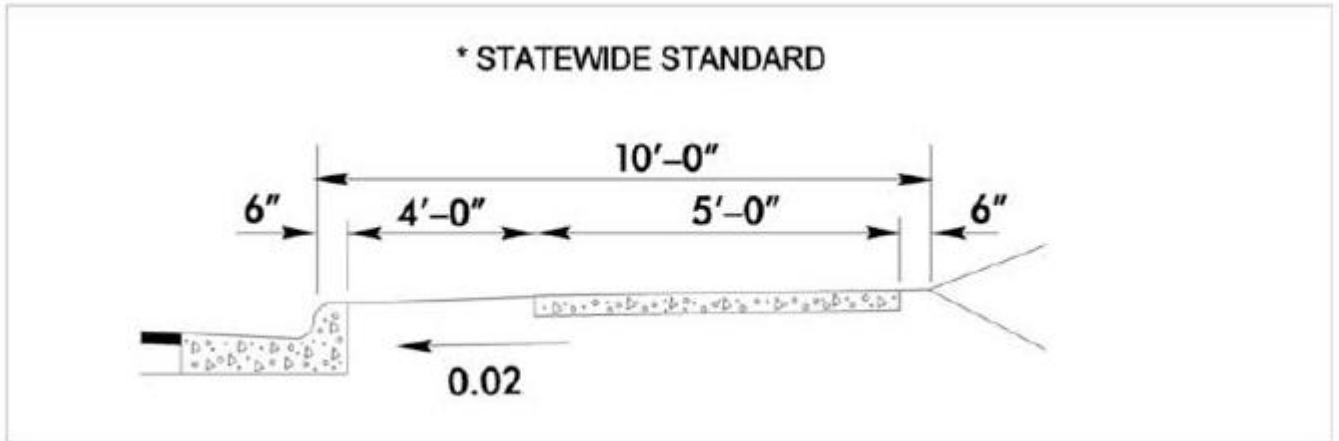
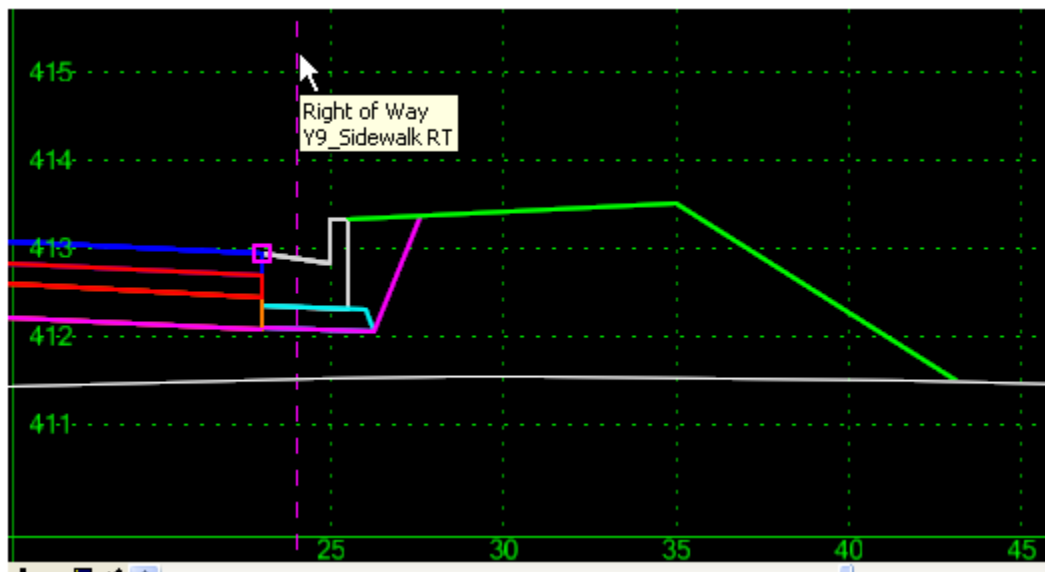By default, the sidewalk component is turned off (end condition target styles).

When the horizontal location of the inner sidewalk line is within the berm width and a minimum of 6" from the outer sidewalk edge to the berm side slope break point can be maintained, then the sidewalk component is displayed.
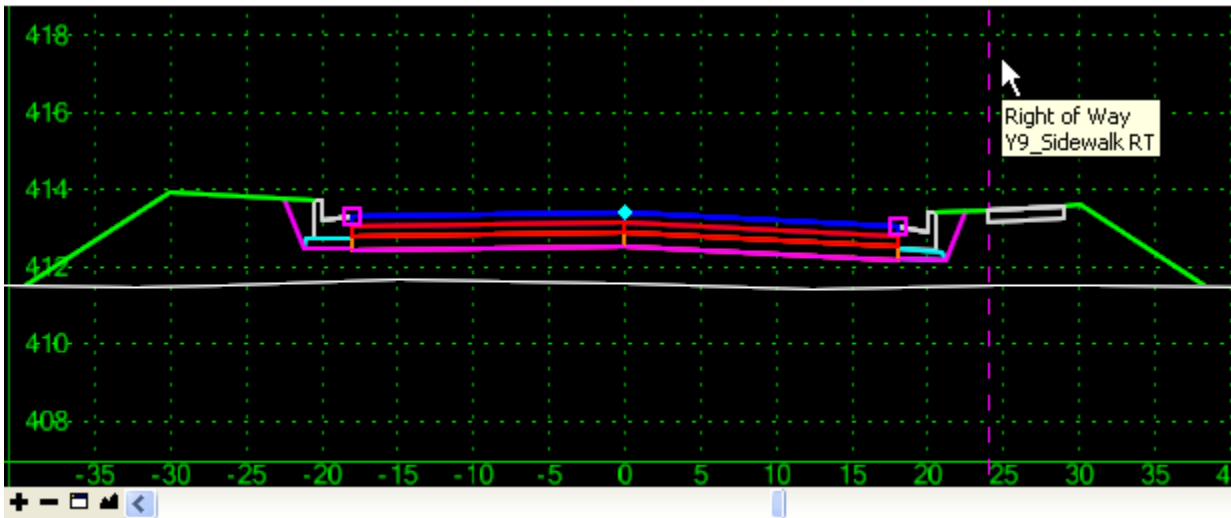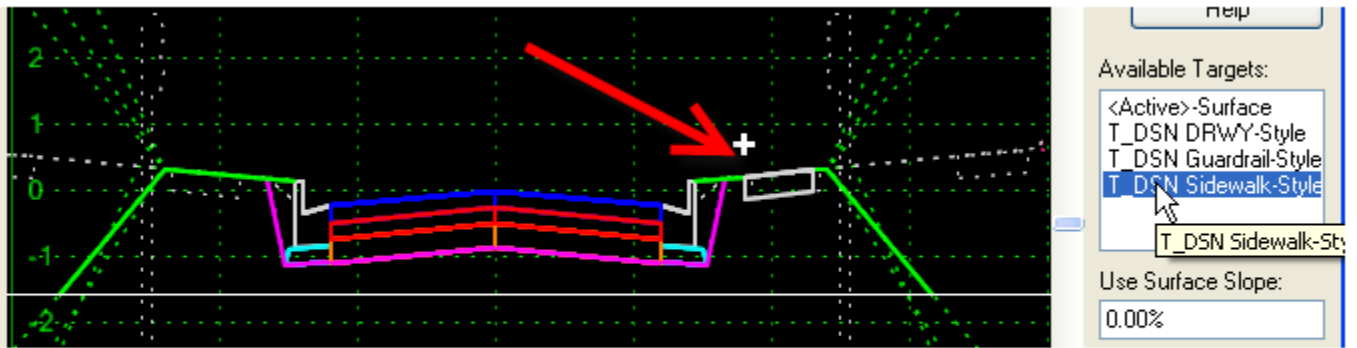
The sidewalk component behavior complies with the Roadway Statewide Standard (1-7D).

* STATEWIDE STANDARD

Note that if the sidewalk graphic is located toward the inside of the curb (outside the limits of the green grass berm) or a 6" minimum offset from the sidewalk outer edge to the berm break point cannot be maintained, then the sidewalk component will not display.

Dimension wise, the sidewalk is 5' wide and 4" deep by default. Along with the berm width, only the sidewalk width can be changed with the parametric constraint label "SW_Width".

2. Driveways
Store the driveway graphic as a chain.

Corridor Modeling - C:\Oaks Folder\corridor modeler\r2635c.rdp

File   Tools

Job: RDY

- Preferences
- DTM
- Geometry
- Plan Graphics
- ALG Viewer

Search Criteria	Chain	Side	Beg. Offse	End Offse	Ne
Lv: Prop EOT, Co: , Wt: , Lc: , Type:	Y8	Right	33.00	90.00	RT
Lv: Prop EOT, Co: , Wt: , Lc: , Type:	Y8	Right	0.00	30.00	RT
Lv: Prop Conc Drive Drop Type, Co: , Wt: , Lc: , Type: 3	Y9	Right	0.00	26.00	Y9

Symbology

Chain: Y9

New Chain Name: Y9_Driveway RT

Drafting Standard: T_DSN DRWY

Undisplay   Begin Offset: 0.00
                   End Offset: 26.00

Side: R

Filter Tolerances
Horizontal: 50.00
Variance: 0.010000

Import

By default, the driveway component and its end conditions are turned off (end condition target styles).
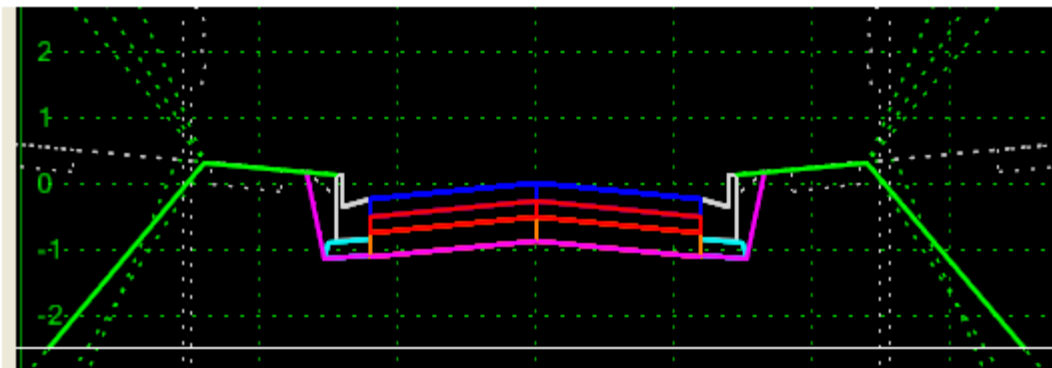
When the horizontal location of the driveway graphic line is within the 6" curb width, then the driveway components and its end conditions are displayed.
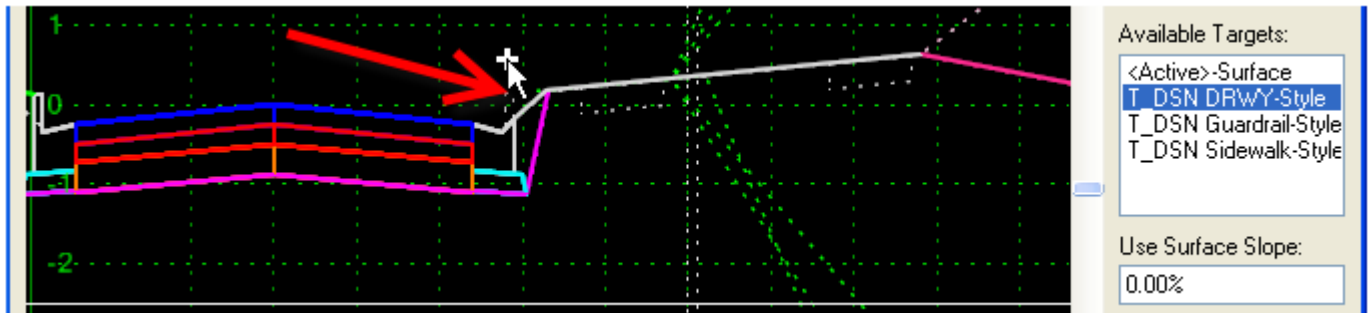
For this reason, it is important that the horizontal location of the driveway (and sidewalk) linestyle is drawn correctly in the 2D DSN file. Note that a sidewalk component can also be display with the driveway components. Also note the red end condition flag indicating that driveway could not tie to natural ground within a range of allowable slope and distance. It is to be used as a guide and by no means does it reflect the final driveway construction.
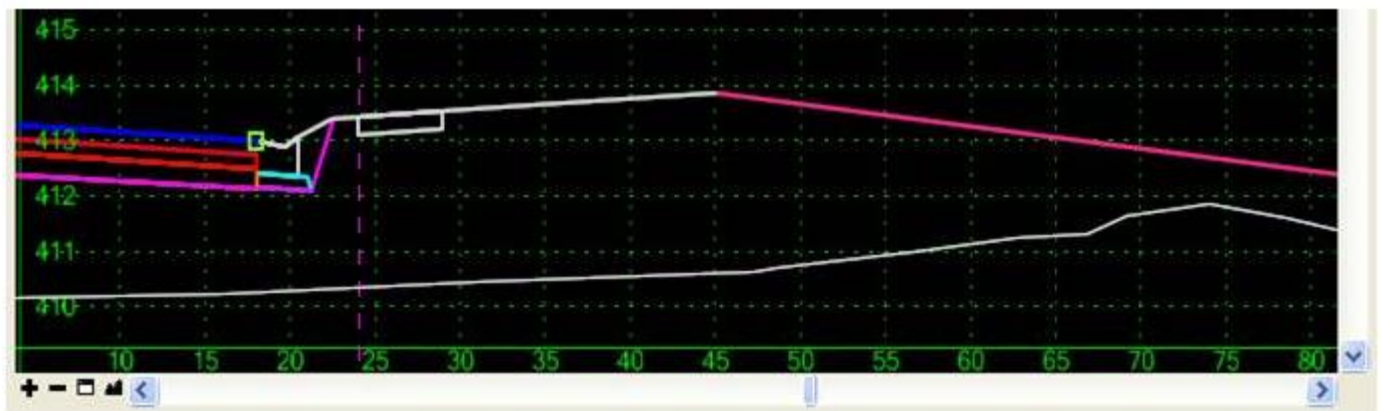
The grade of the concrete driveway matches closely to the cross slope of the grass berm and they are mostly at the same elevation to insure a uniform grade for the sidewalk is maintained going from the grass berm through the concrete driveway.

The only parametric constraint label for driveways is called "DW_SawCut Distance". It is optional and commonly used in conjunction with the target style "T_DSN DRWY Sawcut" to locate the back of the existing driveway in an attempt to tie to.

For a driveway with its own horizontal and vertical alignments (see Policy on Street & Driveway Access), treat it as if it is another corridor or -Y- Line.