# LAB 8 - Building Sections

This lab demonstrates how to create the sub-assemblies known as sections and illustrates the use of parent components and display rules.

#### **Chapter Objectives:**

- Build a section with existing components using the drag and drop method
- Build an end condition section and reset the priorities so that it functions properly
- Build a section from new and existing components
- Set up the parent/child relationship between components and demonstrate how it works
- Create display rules, apply them to components, and demonstrate their functionality

Before beginning this lab, verify that the following files are loaded:

- C:\Projects\12345\Design\Drawings\Reference\_Files\12345DES\_Model.dgn
- C:\Workspace\Workspace-CDOT\_V8i\Standards-Global\InRoads\Preferences\ CDOT\_Civil.xin
- C:\Projects\12345\12345\Design\InRoads\DES12345\_Templates.itl (This file was modified in Lab 1)

# Lab 8.1 - Build a Lane Section

This example demonstrates how to assemble basic components into sections using the drag and drop method. This lab builds on the concepts and used data from *Lab 1 - Building Components*. Open the *Create Template* dialog box.

- 1. Select Tools > Options from the *Create Template* menu bar.
- 2. Make sure that *Apply Affixes* is toggled off and the X and Y Step Options are set to 0.10.

vaming Optio	ns	ОК
Components		-
Seed Name		Cancel
From St	tyle	Preferences
Specify	f:	C
		нер
Points		
Seed Name		
Apply Affix	es	
941.2	Prefix Sulfix	
Left	LT_	
<b>Flight</b>	RT	
Step Options		

- 3. **<D> <D>** on the root folder in the Template Library pane to expand the folder structure.
- 4. Expand the **2** Sections Pavement folder.
- 5. Create a new folder under 2 Sections Pavement called 12345 Sections.



- 6. Create a new template in the *12345 Sections* folder. Name it *Conc\_Driving\_Lane*.
- 7. Expand the *4 Components* folder. Also expand the *12345 Components* folder created in Lab 1.
- 8. **<D>** on the **Conc\_Lane\_12"x12'** component. The component is displayed in the Preview window.
  - Preview:
- 9. **<D> and hold** on the component's origin (the green dot).

10. **Drag** the component into the template view and **drop** (release the data button) it on the new section's origin.



- 11. Expand the *4 Components >Aggregate Bases > Driving Lanes* folder.
- 12. **<D>** on the **ABC\_Lane** component.



13. **<D> and hold** on the upper right point of the component in the preview window.

14. **Drag** the component into the Template View and move the pointer on to the lower right corner of the concrete component and **Drop**. The "+" on the concrete component turns white when to pointer is on it.



**Note:** Steps 14 and 15 were done to show that components do not have to be placed by the origin.

This completes the Conc\_Driving\_Lane section. This section is now ready to use to create a complete template. This lab illustrates how to build a "backbone" section from existing components. It also shows that components do not have to be placed by their origin, they can be placed using any point on the component.

# Lab 8.2 - Build an End Condition Section

This example demonstrates the construction of an end condition. End conditions are more complicated than a simple component and require additional editing to make complete. The drag and drop method will be used to create a new end condition section and the end condition priorities will be modified so that the section operates properly.

- 1. Create a new template in the 12345 Sections folder named 12345\_End-Condition.
- 2. Expand the 4 Components >End Condition > Z-Slope > High Speed folder.
- 3. **<D>** on the *Z***-***Slope***\_12\_6\_to\_1** component.
- 4. **<D> and hold** the component's origin in the preview window.

- 5. Drag and Drop the component on the origin in the Template View.

- 6. Expand the **4** Components >End Condition > Fill Slope Components folder.
- 7. **<D>** on the *Fill\_6\_to\_1* component.
- 8. Drag and Drop the component on to the *POSS* point.



9. Repeat steps 8 and 9 using *Fill\_4\_to\_1* and *Fill\_3\_to\_1*.



10. Expand the **4** – *Components* >*End Condition* > *Cut Slope Components* folder.



11. Drag and Drop the Cut\_6\_to\_1, Cut\_4\_to\_1 and Cut\_3\_to\_1 components on to the **POSS** point.

- 12. **<D> <D> on the** *Fill 6/1* component.
- 13. Verify that the *Priority* is set to *1*.
- 14. **<D> Next.** This shows the properties for the Fill\_4/1 component.
- 15. Set the *Priority* is set to *2*. <D> Apply.

K Component Prop	perties		X
Name:	Fil_4/1		+ Apply
Description:			Close
Style:	D_Toe-of-Fill -	]	< Previous
Parent Component:		+	
Display Rules:			Edit
Exclude from triang	gulation		Help
End Condition Prope	arties		
Target Type:	Surface -	Priority:	2
Surface	✓ <active></active>	Benching Count:	0
		From Datum:	0.00
Horizo	ntal Vertical	Step Elevation:	0.00
Offsets: 0.00	0.00	Rounding Length	0.00
-			

- 16. Set the remaining priorities as follows
  - ♦ Fill\_3/1 = 3
  - ◆ Cut\_6/1 = 4
  - ◆ Cut\_4/1 = 5
  - ◆ Cut\_3/1 = 6

- 17. Close the Component Properties dialog box
- 18.  $\langle D \rangle$  the **Test** button.
- In the *Test End Conditions* dialog box, <D> Draw and notice how the end condition behaves.
- 20. <D> Close.

# Lab 8.3 - Using Parent Components

This example places a sidewalk at the end of a cut or fill slope. It illustrates how the parent/child relationship between components can be used. The sidewalk position end conditions are parents to the sidewalk components. This "turns off" the sidewalk when its parent end condition does not intercept the target surface.



1. Create a new template in the **12345** *Sections* folder named *Parent Component Example*.

The end condition component is used to locate the position of the sidewalk. It contains two segments. The first segment matches the sidewalk's width and slope. The second segment intercepts the target surface where the actual sidewalk goes. The Do Not Construct point property is used so that the points will be located but the end condition component will not be added to the finished template.

- Add New ComponentSimpleTemplate Documentation Link...ConstrainedCheck Point Connectivity...UnconstrainedDelete ComponentsNull PointChange Template OriginEnd ConditionDelete Constraints from All PointsOverlay/StrippingSet Dynamic OriginCtrl-D
- 2. <R> in the Template View and select Add New Component > End Condition.

- 3. Key in *Fill* for the component *Name*.
- 4. Select **D\_Toe-of-Fill** for the **Style**.
- 5. Key in **1** for the **Priority**.
- 6. In the *Dynamic Settings* dialog box, set the *Point Name* to POSS.
- 7. Place the point on the template origin.
- 8. In the *Dynamic Settings* dialog box, toggle off *Check for Interception*.
- 9. Verify *End Condition is Infinite* is toggled off.
- 10. Toggle on *Do Not Construct*.
- 11. Key in *Sidewalk\_Position* for the *Point Name*.
- 12. Select **D\_CONC\_Sw** for the *Point Style*.
- 13. Set the key in mode to **hs=**.
- 14. Key in *4,-.02* and press *Enter*.

**Note:** Because the **Do Not Construct** was toggled on, a line from POSS to Sidewalk Position is not created.

Dynam	nic Setting	js	×	
X:	5.14	Step:	0.00	
Y:	1.85	Step:	0.00	
Ch	eck for Int	erception		
V Pla	ace Point a	t Intercept	ion	
🔲 Er	nd Condition	n is Infinite		
V Do	Not Cons	truct		
Point	Name:	Sidewalk	_Positior 👻	
Point Style:				
Apply Affixes				
hs= • 4,02				
	Set Dy	namic Origi	in	

- 15. In the *Dynamic Settings* dialog box, toggle on *Check for Interception*.
- 16. Toggle on *End Condition is Infinite*.
- 17. Set the *Point Name* to Toe-of-Fill.
- 18. Key in *1,-.1667* and press *Enter*.



19. **<R>** in the template view and select **Finish**.

The Sidewalk and fill slope components that will be used as part of the template are built from the toe located by the end condition back to the POSS.

- 20. Expand the **4** Components >Sidewalks & Bike Paths > Sidewalks folder.
- 21. **<D>** on the **4"\_CONC\_Sidewalk** component.
- 22. **<D> and hold** on the upper right point in the Preview.
- 23. Drag and Drop the component on the *Toe-of-Fill* point.
- 24. **<D> <D> on the CONC\_Sidewalk\_Front-Top** point.
- 25. Set Constraint 1 *Type*: to Horizontal, the *Parent 1*: field to Toe-of-Fill, and key in -4.00 for the *Value*.
- Set Constraint 2 *Type*: to Slope constraint, the *Parent 1*: field to Toe-of-Fill, and key in -2.00% for the *Value*.
- 27. <D> Apply and Close.
- 28. <R> in the template view and select Add New Component > Unconstrained.
- 29. Key in *Fill\_6\_to\_1* for the component *Name*.
- 30. Select D\_Toe-of-Fill for the Style.
- 31. Place the first point on the **POSS** (also the template origin).
- 32. Place the second point on the *CONC\_Sidewalk\_Front-Top* point.
- 33. **<R>** and select **Finish**. The illustration below shows the template completed to this point.



The cut components work the same as the fill components built above.

- 34. <R> in the template view and select Add New Component > End Condition.
- 35. Key in *Cut* for the component *Name*.
- 36. Set the *Style* to **D\_Top-of-Cut**.

37. Key in *2* for the *Priority*.

-Current Component -		-	
Name: Cut		Style: D_	Top-of-Cut 🔻
Target Type:	Surface 💌	Priority:	2
Surface	✓ <active></active>	Benching Cou	nt: O
		From Datur	m: 0.00
Horizont	tal Vertical	Step Elevation	n: 0.00
Offsets: 0.00	0.00	Rounding Length	0.00
Target Type: Surface Horizont Offsets: 0.00	Surface	Priority: Benching Cou From Datur Step Elevation Rounding Length	2 nt: 0 0.00 0.00 0.00

- 38. In the *Dynamic Settings* dialog box, set the *Point Name* to POSS.
- 39. Place the point on the **POSS**.
- 40. In the Dynamic Settings dialog box, toggle off Check for Interception.
- 41. Toggle on *Do Not Construct*.
- 42. Key in *Sidewalk\_Position1* for the *Point Name*.
- 43. Select **D\_CONC\_Sw** for the *Point Style*.
- 44. Key in *4,.02* and press *Enter*.

Dynar	nic Setting	gs	×		
X:	3.80	Step:	0.10		
Y:	0.10	Step:	0.10		
	heck for Int	terception			
✓ P	lace Point a	at Intercept	tion		
E	nd Conditio	n is Infinite			
VD	o Not Cons	struct			
Point	Name:	Sidewalk	<_Positior ▼		
Point	Style:	D_CON	C_Sw ▼		
A	Apply Affixes				
hs= - 4,.02					
	Set Dynamic Origin				

- 45. In the Dynamic Settings dialog box, toggle on Check for Interception.
- 46. Toggle on *End Condition is Infinite*.
- 47. Set the *Point Name* to Top-of-Cut.

#### 48. Key in *1,.1667* and press *Enter*.



- 49. **<R>** and select **Finish**.
- 50. **<D>** on the **4"\_CONC\_Sidewalk** component.
- 51. **<D> and hold** on the upper right point in the Preview.
- 52. Drag and Drop the component on the Top-of-Cut point.
- 53. **<R>** and select **Finish**.
- 54. **<D> <D> on the CONC\_Sidewalk\_Front-Top1** point.
- 55. Set Constraint 1 to Horizontal and make the Parent 1 Top-of-Cut.
- 56. Set *Constraint 2* to Slope and make the *Parent 1* Top-of-Cut.
- 57. Key in **2.00%** for the slope **Value**.
- 58. **<D> Apply**.
- 59. **<D> Close**.
- 60. <R> in the template view and select Add New Component > Constrained.
- 61. Key in *Cut\_6\_to\_1* for the component *Name*.
- 62. Select D\_Top-of-Cut for the Style.
- 63. Place the first point on the **POSS** (also the template origin).

- Constraint 1
   Constraint 2

   Type:
   Horizontal
   Image: Constraint 2
   Slope
   Image: Constraint 2

   Parent 1:
   Top-of-Cut
   Image: Constraint 2
   Slope
   Image: Constraint 2

   Value:
   -4.00
   2.00%
   Image: Constraint 2
   Constraint 2

   Value:
   -4.00
   Image: Constraint 2
   Image: Constraint 2
   Image: Constraint 2
   Image: Constraint 2

   Value:
   -4.00
   Image: Constraint 2
   Image: Constraint
- 64. Place the second point on the CONC\_Sidewalk\_Front-Top1 point.

65. **<R>** and select **Finish**. The completed template is shown below.



66. **<D>** the **Test** button.

In the **Test End Conditions** dialog box, **<D> Draw** and notice how the template behaves. Notice that both sidewalks remain visible and a third is added as the ground line is moved. This is because there is no relationship between the hidden end conditions and the sidewalk components.

67. <D> Close.

The steps below set up the parent/child relationships that will turn off the components for the end condition that is not used.

- 68. **<D> <D> on the Cut\_6\_to\_1** Component.
- 69. Set the Parent Component to CONC\_Sidewalk-4".

#### 70. **<D> Apply**.

🕌 Component Prop	erties		<b>X</b>
Name:	Cut_6_to1	+	Apply
Description:			Close
Style:	D_Top-of-Cut		< Previous
Parent Component:	CONC_Sidewalk-4" 👻 🕈		Next >
Display Rules:		Edit	
Exclude from triangu	ulation		Help

- 71. **<D>** the **Next** button until *Fill\_6\_to\_1* is listed.
- 72. Set the Parent Component to CONC\_Sidewalk-4".
- 73. **<D> Apply**.
- 74. **<D>** the **Next** button until **CONC\_Sidewalk-4**" is listed.
- 75. Set the *Parent Component* to Fill.
- 76. <D> Apply.
- 77. <D> the Next button until CONC\_Sidewalk-4"1 is listed.
- 78. Set the *Parent Component* to Cut.
- 79. **<D> Apply**.
- 80. **<D>** the **Test** button.
- 81. In the *Test End Conditions* dialog box, *<D> Draw* and notice how the end condition behaves; only the components that are children of the end condition solution are displayed.

# Lab 8.4 - Using Display Rules

Display rules turn on or off the display of components based on user defined criteria. In this example, display rules are used to exchange the normal end condition for a guardrail end condition.

The typical section created in this lab contains two separate end conditions, the standard Z12\_6\_to\_1 section and an end condition used with guardrail. Both end conditions could apply at any given template drop. To determine which end condition will be used, the *Height Check* component is added to the template. This component determines the fill height from the edge of pavement to the existing ground. If the fill height exceeds the maximum value the guardrail end condition is used.

The standard end condition section is added to the template.

- 1. Create a new template in the 12345 Sections folder. named Display Rules Example.
- 2. Expand the *3 Sections End Sections > Z-Slope End Conditions > High Speed End Conditions* folder.

- 3. **<D>** on the **Z12\_6\_to\_1** Section.
- 4. **<D> and Hold** the section's origin in the *Preview* window.
- 5. Drag and Drop the section on the new template's origin.

Height Check is an end condition component. It runs vertically through the template origin (which will also contain the EOP point) to intercept the existing ground. The distance between the Fill Height point and the EOP is used to determine if the guardrail is used.



- 6. <R> in the Template View and select Add New Component > End Condition.
- 7. Key in *Height Check* for the *Name*.
- 8. Select **Default** for the *Style*.

Current Component			
Name: Height Check		Style:	Default 👻
Target Type:	Surface 🔻	Priority:	1
Surface	✓ <active></active>	Benching (	Count: 0
		From D	atum: 0.00
Horizont	al Vertical	Step Eleva	ation: 0.00
Offsets: 0.00	0.00	Rounding Len	gth 0.00

- 9. In the *Dynamic Settings* dialog box, key in *Height Anchor* for the *Point Name*.
- 10. Select **Default** for the *Point Style*.
- 11. Set the key in mode to **XY**=.

12. Key in *O*, *1* and press *Enter*.

Dynami	ic Settin	gs	×	
X:	1.81	Step:	0.00	
Y:	-0.36	Step:	0.00	
Point N	Point Name: Height Anchor -			
Point S	Point Style: Default 👻			
Apply Affixes				
[xy= ▼] 0,1				
	Set Dynamic Origin			

This point sets the Height Check end condition over the EOP so that the fill height can be checked vertically at this point.

- 13. Key in *Fill Height* for the *Point Name*.
- 14. Toggle on Check for Interception, Place Point at Interception, End Condition is Infinite, and Do Not Construct.
- 15. Key in *O*, -2 and press *Enter*.

Dynami	ic Setting	js	×	
X:	8.62	Step:	0.00	
Y:	0.21	Step:	0.00	
Che	eck for Int	erception		
🔽 Pla	ce Point a	t Intercept	ion	
🔽 End	d Condition	n is Infinite		
🔽 Do	Not Const	truct		
Point N	lame:	Fill Heigh	t 👻	
Point S	ityle:	Default	<b>-</b>	
Apply Affixes				
xy= • 02				
	Set Dyr	namic Orig	in	

This sets the starting location for the Fill Height point. This point intercepts the existing ground directly under the EOP to determine the fill height. The 2 foot distance below the template origin is an arbitrary value, so long as the Fill Height point is placed below the Height Anchor point the template will work properly.

- 16. **<R>** and select **Finish**.
- 17. Select File > Save. (This is an intermediate save to prevent loss of information.)

The Z-Slope\_12\_6\_to\_1 component will be set to a child of the Height Check so that its display can be turned on and off based on the fill height.

18. Toggle on *Display All Components*.

Current Terr	plate	Display	
Name: Description:	Parent_Component_Example	<ul> <li>Components</li> </ul>	Constraints
		Display Point N	lames
		Display Al Con	ponents
	Current Terr Name: Description:	Current Template Name: Parent_Component_Example Description:	Current Template     Display       Name:     Parent_Component_Example     © Components       Description:     Image: Display Point N     Image: Display All Component All Components

19. <D> <D> on the Z-Slope\_12\_6\_to\_1 component.



20. In the Component Properties dialog box, set the Parent Component to Height Check.

The Display Rule sets the criteria for the component to be displayed.

21. **<D> Edit** to display the *Component Display Conditional Expression* dialog box.

🕌 Component Prope	erties		<b>X</b>
Name:	Z-Slope_12_6_to_1	+	Apply
Description:			Close
Style:	D_SHOULDER-Emb 👻 🔲 Close Shape		< Previous
Parent Component:	Height Check 🔻 🕂		
Display Rules:	HeightCheck	Edit	
Exclude from triangu	lation		Help

22. In the *Component Display Conditional Expression* dialog box, <**D**> Add. The *Display Rule* dialog box is displayed.

The Display Rule determines when the Z-Slope\_12\_6\_to\_1 component is displayed. It is set so that when the fill height at the edge of pavement is more than 12 feet, the normal end condition is turned off.

23. In the *Display Rule* dialog box, key in *Height Check* for the *Name*.

- 24. Key in Fill height check for guardrail in the Description field.
- 25. Set the *Type* to Vertical.
- 26. Set *Between* to Fill Height.
- 27. Set And to EOP.
- 28. Set the expression to >.
- 29. Key in **-12** in the value field.
- 30. **<D> OK**.

ኵ Display R	ule		<b>—</b>
Name:	HeightCheck		ОК
Description:	Fill height check for guardrail		Cancel
Type:	Vertical 🔹		Help
Between:	Fill Height	+	<u> </u>
And:	EOP 👻	+	
	> -12.00		

- 31. Back in the *Component Display Conditional Expression* dialog box, highlight the **Height** Check entry in the *Template Display Rules* area.
- 32. **<D>** the **Selected Rule** button.
- 33. **<D> OK**.

Conditional Expression for Z-Slope_12_6 HeightCheck		2_6_to_1 Component				OK Cancel Help
AND	OR NOT	( ) Selected Rule	1			
mpiate Displa lame	Type	Expression	Test	Value	Result	
mplate Displa Name eightCheck	Type Vertical	Expression EOP - Fill Height	Test K	Value 12.00	Result True	

34. In the *Component Properties* dialog box, *<D> Apply*.

Component Prop	erties		X		
Name:	Z-Slope_12_6_to_1	+	Apply		
Description:			Close		
Style:	D_SHOULDER-Emb 💌 🔲 Close Shape		< Previous		
Parent Component:	Height Check 🔹 🛨		Next >		
Display Rules:	HeightCheck	Edit			
Exclude from triangulation					

35. **<D> Close**.

As defined in the Z12\_6\_to\_1 Section, the 3 to 1 fill slope will never be used. This is because the guardrail component is activated before the 4 to 1 option reaches its maximum distance. By changing the value on the horizontal constraint to 32 on the 4 to 1 slope, it will reach its maximum length before the guardrail end condition is used.

- 36. <D> <D> on the Toe-of-Fill1 point.
- 37. Change the *Value* of the *Horizontal Constraint* to 32.
- 38. **<D> Apply**.
- 39. **<D> Close**. The template looks like the illustration below.



40. **<D> Test**.

- 41. <D> Draw. Notice that once the ground line drops 12 feet below the EOP, the Z-Slope\_12\_6\_to\_1 component disappears.
- 42. **<D> Close** to return to the *Create Template* dialog box.

Now we will add the Normal\_Paved\_Installation-6ft-Shoulder component to the template. This component uses the Height Check display rule along with the NOT operator to display the guardrail components only when the standard end condition is not used.

- 43. Expand the 4 Components > Barriers & Misc Components > Guardrail Widening folder.
- 44. <D> on Normal\_Paved\_Installation-6ft-Shoulder in the library tree view.
- 45. **<D> and Hold** on the component's origin (the upper left point) in the *Preview* window.
- 46. Drag and Drop the section on the *EOP* point in the template view.
- 47. <D> <D> on the HMA\_GRAIL-Widening\_Normal\_6ft-Shoulder component.



- 48. **<D>** the **Edit** button for the *Display Rules*.
- 49. In the *Component Display Conditional Expression* dialog box, *<D>* the **NOT** button.
- 50. Highlight Height Check in the *Template Display Rules* area, then <D> the Selected Rule button.
- 51. **<D> OK**.
- 52. In the *Component Properties* dialog box, **<D> Apply** and **Close**.

Because the display rules don't work well with end conditions, this component is used to locate the toe of the fill slope from the end of the guardrail section.

- 53. Zoom in around the guardrail widening component placed above.
- 54. <R> in the Template View and select Add New Component > End Condition.
- 55. Key in *Fill\_2\_to\_1* for the *Name*.
- 56. Select **Default** for the *Style*.

57. **<D>** on the **Breakpoint** point.



- 58. In the *Dynamic Settings* dialog box, Key in *Toe-of-Fill\_3* for the *Point Name*.
- 59. Toggle on Check for Interception, Place Point at Interception, End Condition is Infinite, and Do Not Construct.
- 60. Set the key in mode to **hs**=
- 61. Key in *2,-.5* and press *Enter*.

Dynamic Settings 🛛 🔯						
X:	5.90	Step:	0.10			
Y:	0.70	Step:	0.10			
Check for Interception						
V PI	Place Point at Interception					
End Condition is Infinite						
Do Not Construct						
Point Name: Toe-of-Fill_Check 🔻						
Point Style: D_Toe-of-Fill						
Apply Affixes						
hs=		2,5				
Set Dynamic Origin						

62. **<R>** and select **Finish**.

The final component actually constructs the fill slope in the template. It will be made a child of the guardrail widening component so that it displays only when the guardrail widening component is displayed.

- 63. <R> in the Template View and select Add New Component > Constrained
- 64. Key in *Fill\_2\_to\_1* for the *Name*.
- 65. Set the *Style* to D\_Toe-of-Fill.

- 66. **<D>** on the **Breakpoint** point.
- 67. **<D>** on the *Toe-of-Fill\_3* point.
- 68. **<R>** and select **Finish**.
- 69. **<D> <D> on the Fill\_2\_to\_1** component.
- 70. Set the *Parent Component* to HMA\_GRAIL-Widening\_Normal\_6ft-Shoulder.
- 71. <D> Apply.
- 72. <D> Close.
- 73. **<D> Test**.
- 74. **<D> Draw**. Notice that when the **Z-Slope\_12\_6\_to\_1** component disappears the guardrail component and its children are shown.

#### **Chapter Summary:**

- All four exercises used the drag and drop method to add components to a section.
- In *Lab 8.2 -Build an End Condition Section*, the special properties of end condition components were illustrated. Setting the end condition priority determines the processing order of end condition components.
- Lab 8.3 -Using Parent Components and Lab 8.4 -Using Display Rules built sections from new and existing components. A variety of methods can be used to put data into a template.
- Lab 8.3 -Using Parent Components and Lab 8.4 -Using Display Rules used the parent/ child relationship between components to display the proper solution. This groups components so that if the parent is displayed then the children are also displayed.
- In *Lab 8.4 -Using Display Rules* display rules were created to turn on and off components that are not part of the solution. Display Rules set criteria used to determine if a component will be displayed.