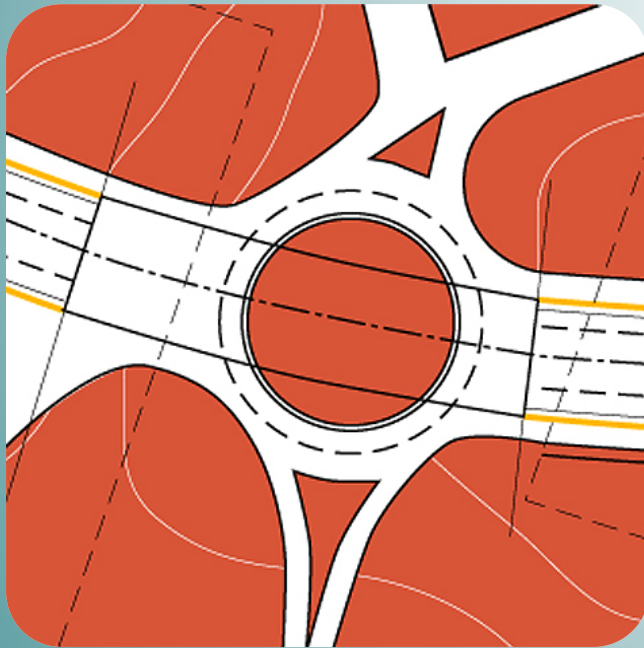# Workshop on Projects

Week 6. Assemblies. Subassemblies. Codes

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SUBASSEMBLY

Attachment
Input Parameters
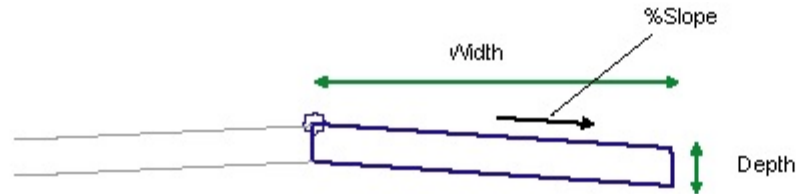Target parameters
Behavior
Layout Mode Operation
Point, Link, and Shape Codes
Coding Diagram

SUBASSEMBLY -> BASIC LANE

Attachment
Input Parameters

Attachment

The attachment point is at the inside edge of lane on finish grade.

Input Parameters

Note: All dimensions are in meters or feet unless otherwise noted. All slopes are in run-over-rise form (for example, 4 : 1) unless indicated as a percent slope with a "%" sign.

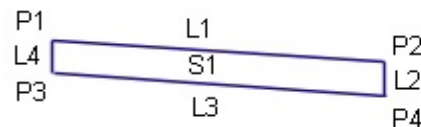| Parameter	Description	Type	Default
Side	Specifies which side to place the subassembly	Left / Right	Right
Width	Width of the lane	Numeric, positive	3.6 m 12.0 ft
Depth	Depth from finish grade to subbase	Numeric, positive	0.2 m 0.67 ft
%Slope	% Slope of the lane	Numeric	-2%

SUBASSEMBLY -> BASIC LANE

Point, Link, and Shape Codes

Target parameters
Behavior
Layout Mode Operation
Point, Link, and Shape Codes
Coding Diagram

The following table lists the point, link, and shape codes for this subassembly that have codes assigned to them. Point, link, or shape codes for this subassembly that do not have codes assigned are not included in this table.
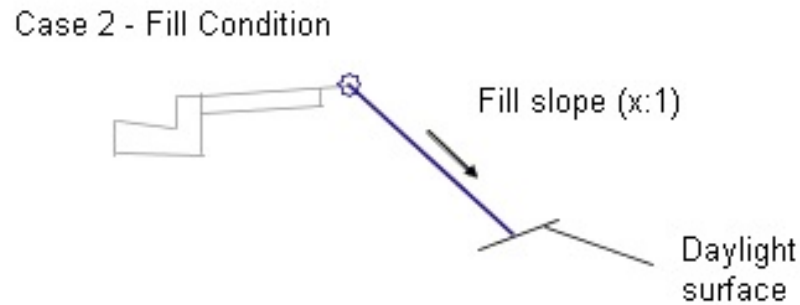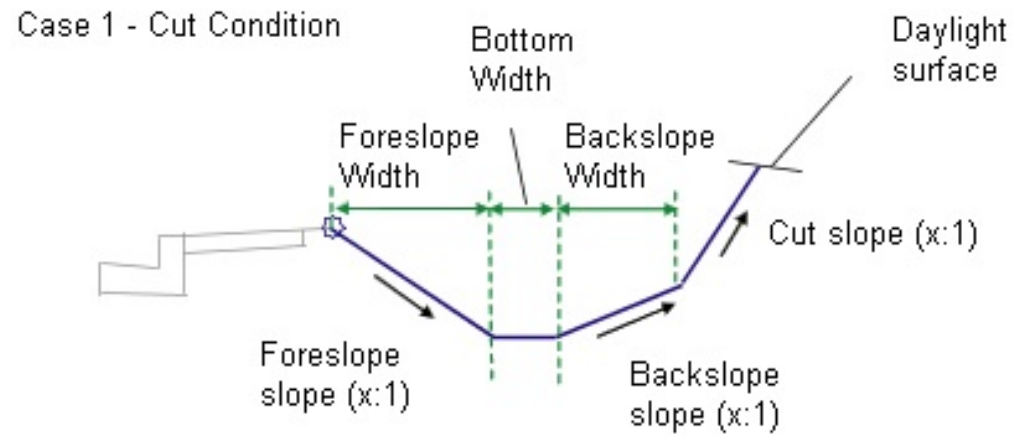
Point, Link, or Shape	Codes	Description
P1	Crown	Crown of road on finish grade
P2	ETW	Edge-of-traveled-way on finish grade
P3	Crown_Subbase	Crown of road on subbase
P4	ETW_Subbase	Edge-of-traveled-way on subbase
L1	Top, Pave	Paved finish grade
L3	Datum, Subbase	Subbase
S1	Pave1	

Coding Diagram

SUBASSEMBLY -> BASIC SLOPE CUT DITCH

Attachment
Input Parameters

Case 1 - Cut Condition

Bottom Width

Foreslope Width

Backslope Width

Daylight surface

Cut slope (x:1)

Foreslope slope (x:1)

Backslope slope (x:1)

Case 2 - Fill Condition

Fill slope (x:1)

Daylight surface

SUBASSEMBLY -> BASIC SLOPE CUT DITCH

Point, Link, and Shape Codes

Point, Link, or Shape	Codes	Description
P1	Hinge Hinge_Fill	Fill condition only - hinge point for fill daylight link
P2	Ditch_In Daylight Daylight_Fill	Cut condition only - inside edge of ditch Fill condition only - daylight point
P3	Ditch_Out	Cut condition only - outside edge of ditch
P4	Hinge_Cut	Cut condition only - hinge point for cut daylight link
P5	Daylight Daylight_Cut	Cut condition only - daylight point
L1 - L4	Top Datum	Unpaved finish grade
L1	Top Datum Daylight Daylight_Fill	Daylight link in fill
L4	Top Datum Daylight Daylight_Cut	Daylight link in cut

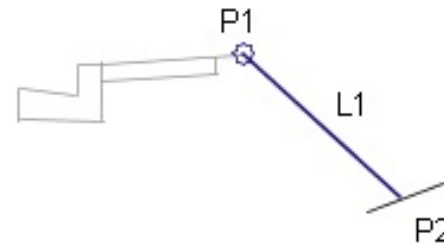# SUBASSEMBLY -> BASIC SLOPE CUT DITCH

Coding Diagram

Coding Diagram

Case 1 - Cut Condition
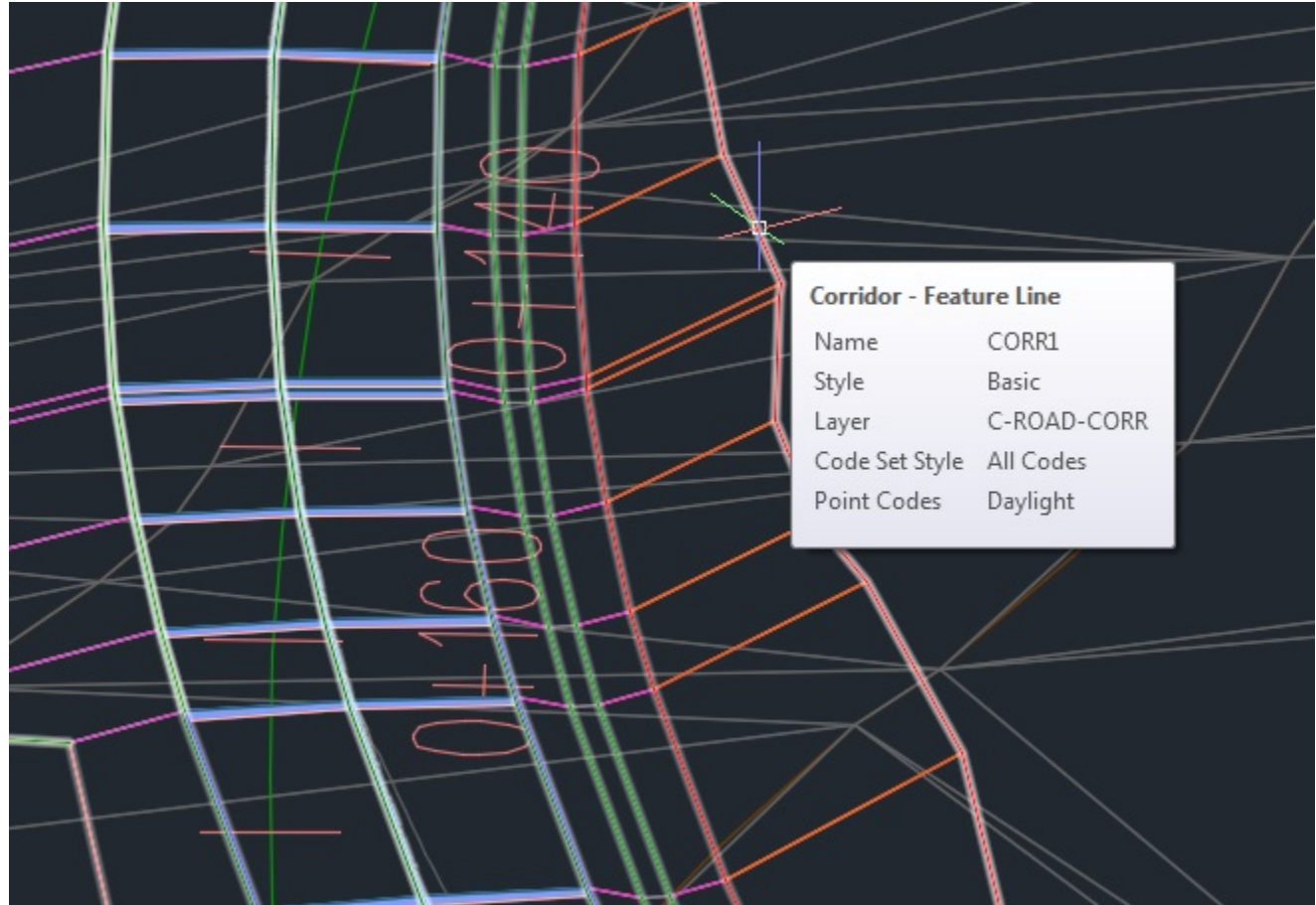
Case 2 - Fill Condition
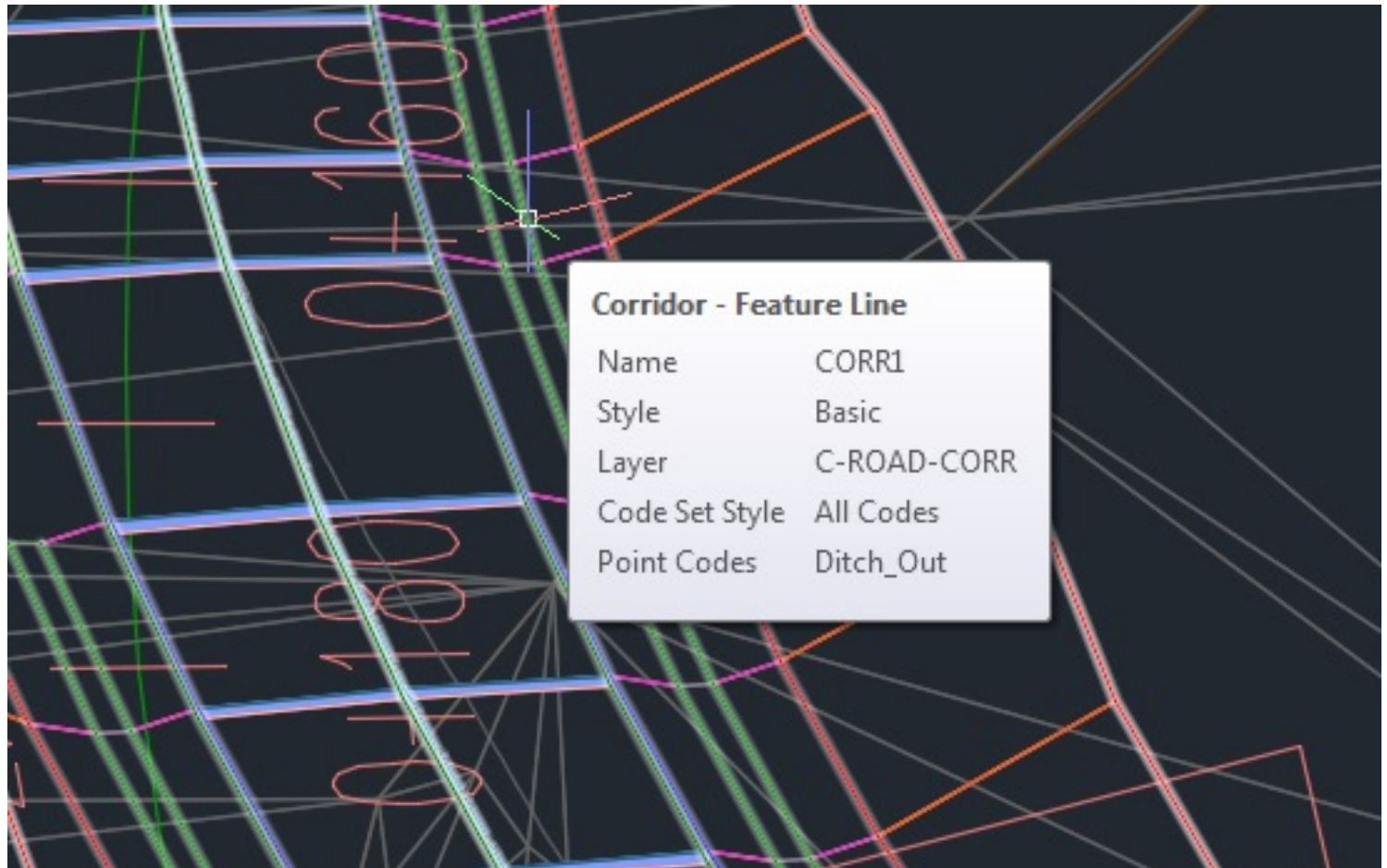
FEATURE LINES

DAYLIGHT

DAYLIGHT_CUT
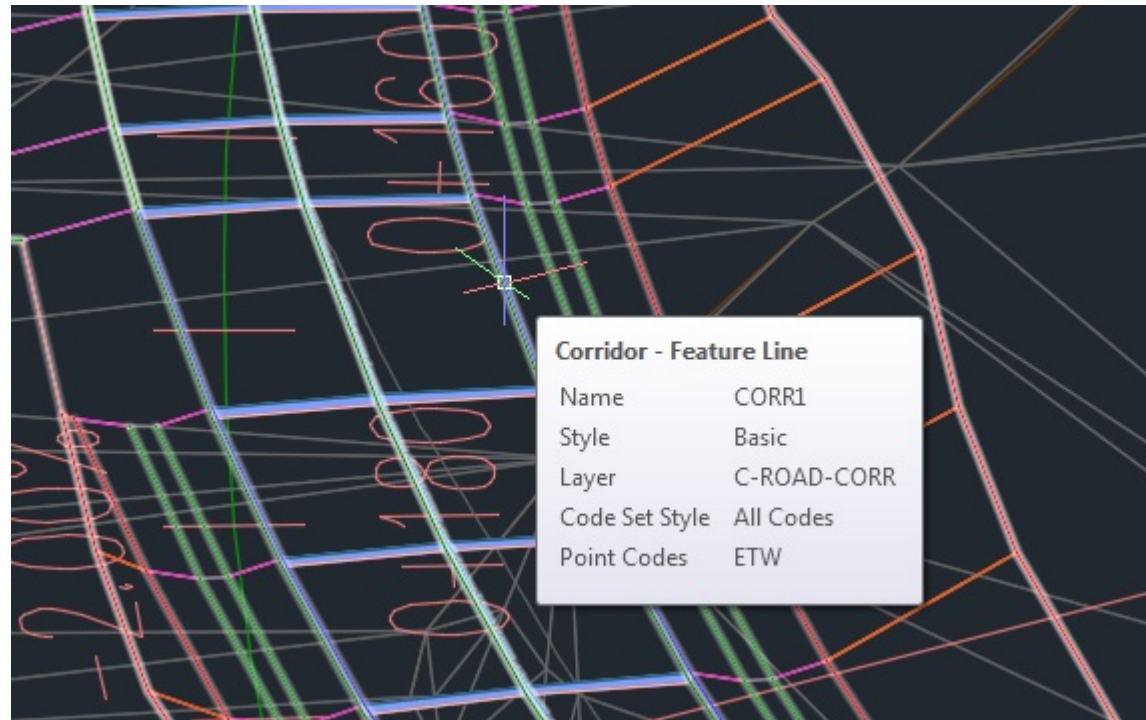DAYLIGHT_DITCH

FEATURE LINES

DITCH_OUT

DITCH_IN

FEATURE LINES

ETW

Edge-of-Traveled-Way (on finish grade)

FEATURE LINES

CROWN