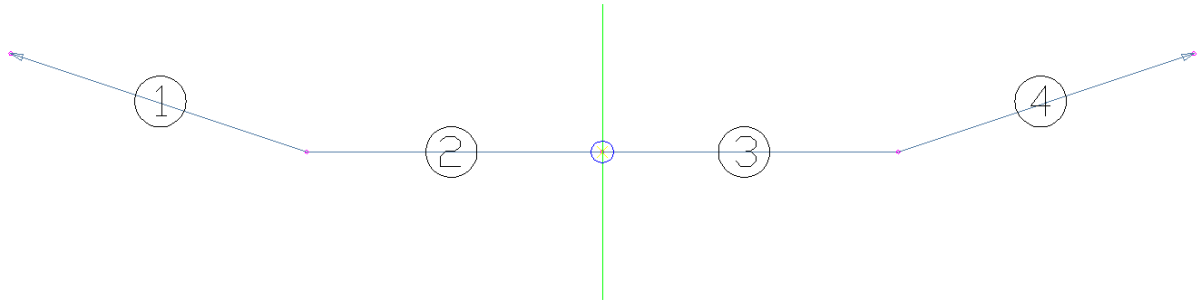
This guide covers the *Simple Waterway* assembly which is used to model an excavated waterway channel. The individual subassembly components of this assembly objects are discussed in further detail below.



1. Simple Waterway – Left Cut Slope

   LinkSlopetoSurface subassembly object. This component represents the left side slope of the waterway channel

   Controlling Parameters

   Slope — The default value is 33.33% or 3:1. This is the slope at which to continue the left hand slope when below the original ground surface at the design depth.

   Slope values can be entered as a numeric value (i.e. 33.3) or as a ratio (i.e. 3:1). If you enter "3:1" the slope will automatically be converted to its numeric value.

   Add Link In — The default value is Cut and Fill. This will allow the software to check both the cut and fill situations and choose the one with the shortest slope to daylight to the ground surface. For an excavated channel, the cut condition should always be the controlling situation. The value could be changed to Cut Only to ensure that the cut condition is always selected.

2. Simple Waterway – Left Side of Channel

   LinkOffsetAndSlope subassembly object. This component represents the left side of the waterway channel.

   Controlling Parameters

   Offset from Baseline — This is the distance between the channel centerline and the left hand edge of the channel. If the centerline is located at the middle of the channel, this value will be one half the width of the channel.

   Slope — The default value is 0% to provide a flat bottom channel. This value can be changed if the intention is to provide a waterway with a sloped bottom.

3. Simple Waterway – Right Side of Channel

   LinkOffsetAndSlope subassembly object. This component represents the right side of the waterway channel.

   Controlling Parameters

   Offset from Baseline — This is the distance between the channel centerline and the right hand edge of the channel. If the centerline is located at the middle of the channel, this value will be one half the width of the channel.

   Slope — The default value is 0% to provide a flat bottom channel. This value can be changed if the intention is to provide a waterway with a sloped bottom.

4. Simple Waterway – Right Cut Slope

LinkSlopetoSurface subassembly object. This component represents the right side slope of the waterway channel

Controlling Parameters

Slope	The default value is 33.33% or 3:1. This is the slope at which to continue the left hand slope when below the original ground surface at the design depth. Slope values can be entered as a numeric value (i.e. 33.3) or as a ratio (i.e. 3:1). If you enter “3:1” the slope will automatically be converted to its numeric value.
Add Link In	The default value is Cut and Fill. This will allow the software to check both the cut and fill situations and choose the one with the shortest slope to daylight to the ground surface. For an excavated channel, the cut condition should always be the controlling situation. The value could be changed to Cut Only to ensure that the cut condition is always selected.