## **Create Slope:**

Create Slope is feature for creating a user defined multiple, compound slope based off of a defined centerline or 3D polyline. For example, you have the ability to create and design a cross section to look something like image below. You can extend this profile or "road" to the total length you wish.

Tots	
Store Points	Advanced Tools
Stakeout	Options
Setup Guideline	Change Project
Create Flat Pad	File Utilities
Create Slope	<u>l≭v</u> Calculations
Volumes	Restore Settings
	Show Monitor Screen
	About SiteMetrix™
Exit or Shutdown	ок
Create Slope	
Slope Held Design Method	
Load From File	
Select Predefined	
New Slope	
Cancel	

## **SiteMetrix**

- 1. Last Used
  - $\Rightarrow$  Loads last used slope
- 2. Load from File
  - $\Rightarrow$  Select slope file (.slp) from Data/Design directory to load as current slope design.
- 3. New Slope



- $\Rightarrow$  Move to position to define slope starting point.
  - From GPS:
    - Record current GPS position and set as starting point for slope design. (point A)
  - From Point:
    - \* Pick coordinate from list (from current coordinate file loaded)
    - \* Enter coordinate manually
- $\Rightarrow$  Move to 2<sup>nd</sup> position to define heading and forward slope of slope design. Or if heading is known, enter Azimuth for slope design.

comgare slope rurameters			
	Define Headin	g and Long Slope	
Quality: FIXED (SI	M)		1NT
Northing: 409270.	86'		
Easting: 2015274.	47'		
Elevation: 884.30'			
Elev Difference: (	55'		
Azimuth: 292 6°			
Distance: 25 08'			
Distance: 25.08' FW Slope: 2.2%			
Distance: 25.08' FW Slope: 2.2%			
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Distance: 25.08' FW Slope: 2.2%			

- From GPS:
  - Record current GPS position and set as starting point for slope design. (point A)
- From Point:
  - \* Pick coordinate from list (from current coordinate file loaded)
  - \* Enter coordinate manually
- From Azimuth:
  - \* Enter Azimuth for heading definition
- $\Rightarrow$  Configure Slope Parameters

Configure Slope Parameters	
Forward Length : 500.00'	
Rear Length : 500.00'	
Quality: FIXED (SIM)	
Back Cancel	Next

- Forward Length:
  - \* Enter the forward length of slope design from starting point. This is length that slope extends forward from point A.
- Rear Length:
  - \* Enter the rear length of slope design from starting point. This is length that slope extends backward from point A.

 $\Rightarrow$  Configure Forward Slope



- Forward Slope is calculated between the starting point and second point. (from point A to B)
- Forward Slope can be edited by pressing the Forward Slope button with value.
- $\Rightarrow$  Configure Cross Slope

Configure Slope Parameters	
Configuration: Two Cross Slopes /\	Side Slopes Defined By: Percent
Section Width: 100.00'	Section Slope Percent: 0.0%
	r I
	1 1 1
Back Cancel	👬 Finish

- Configuration:
  - \* Select between No Cross Slope, One, Two, Four, or Six Cross Slopes.
- Switch to and from cross section segments by pressing the on-screen arrows left and right.
- Side Slopes Defined By:
  - \* Percent %
  - \* Ratio
- Total Width
  - \* Enter Width on cross slope sections as highlighted on screen

- Section Slope Percent/Ratio
  - \* Enter slope value for each section
- $\Rightarrow$  Finish

