

6 Profile

This part deals with the design of vertical alignment of the suggested highway.

6.1 Existing ground

To draw existing ground level along centerline of the roadway being designed, select create profile from surface. A new window will appears allowing user to draw a profile for a specific alignment and surface. After selecting an alignment and surface, choosing the starting and ending stations, press Add button then press draw a profile view button.

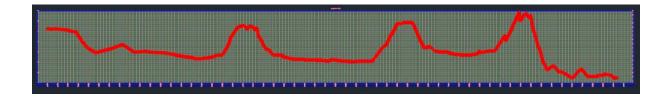
A Create Pr	ofile from S	urface		-			100	-		×
Alignment:					Select s	urfaces:				
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Station rar	nge									
Alignment	:									
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Profile list:										
Name	Description	Type	Data Sou	Offset	Update	Laver	Style	Station		Eleva
					-,	,		Start	End	M
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Remove			Draw in pro	file view			ОК	Cancel	Н	elp

Another window will appear asking for certain information such as alignment name, surface name, maximum and miniumu elevations, start and end stations.



Create Profile View - Gener	1	
General	Select alignment:	
Station Range	*D My alignment4 🗸	8
Station Range	Profile view name:	
Profile View Height	my profile	1
Profile Display Options	Description:	-
Pipe/Pressure Network		
Data Bands	Profile view style:	
	Profile View 👻 🌄 🗖	
Profile Hatch Options	Profile view layer:	
	C-ROAD-PROF-VIEW	he he
	Show offset profiles by vertically stacking profile views	
	< Back Next > Create Pro	file View Cancel Help

Finally press create profile view and then select a position on screen in which you want to draw your profile. The resulted profile will be drawn as shown in figure below





Other learning Sources

1. Lab lessons: students should apply Civil 3D fundamentals during laboratory lessons.

Other references

- 1. Mastering AutoCAD Civil 3D 2017, Autodesk Official Press.
- 2. AutoCAD Civil 3D Essentials, by Eric Chappell.