Cheatography

Alignment Chapter

BAE 204 Exam 2 Cheat Sheet by Shelbeans (shelbeans) via cheatography.com/177819/cs/37830/

Alignmen	i onaptoi	
What are the steps when designing a project		
1. import the existing conditions 2. layout a 2d version of key features i.e. building outlines, road centerlines, pipe networks		
what types of segments make up an alignment?		
tangents, curves, and spirals		
What connects segments?		
geometry points that include PI , PC , and PT		
What are segment properties?		
they can be Fixed, Floating, and Free		
Profile Chapter		
How to edit/see a profile?		
create a profile view		
How to make a design profile?		
A profile view must be in the drawing to create a design profile, even if its empty		
Profile De	finitions	
Profile View	a plot with distance along alignment on X axis and elevation on Y axis	
Surface Profile	elevations of profile are determined from a surface in the drawings	
Design	elevations are entered by the	

Designelevations are entered by theoruser to represent the elevationsLayoutof the proposed designProfile

Alignment Definitions

Alignment	a 2d line made of straight
	and/or curved segments, used
	to represent linear projects
	such as roads, pipelines,
	streams, has no elevation but it
	has direction
Tangents	straight segments

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Alignment Definitions (cont)		
Curves	curved segments with a constant radius (arcs)	
Spirals	curved segments that change in radius from one end to the other	
PI	Point of Intersection, where 2 tangents intersect or would intersect	
PC	Point of Curvature, place where the curve begins	
PT	Point of Tangency, place where the curve sends	
Fixed	editable only be adjusting its geometry points, does not depend on another segment	
Floating	attachable only to another fixed or floating segment, dependent on and always attached to the before segment	
Free	located between fixed or floating segments, defined by before and after segments	
Station	A number representing the horizontal distance between a point on the alignment and the start of the alignment	
Station number format	Full + Partial, full=the number of 100 ft intervals, partial=rema- ining distance	