

Topographic Survey

Construction of Contours

- Compute the spacing of the elevation grid such that there is <u>no more than 1-foot contour elevation</u> change in each grid cell.
- Consider the following survey data:

Side	Length (ft.)	Point	Elevation
AB	150	A	100
вс	100	В	103
CD	160	С	105
DA	90	D	101

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- Grid spacing = Length/|AElevation|
- Repeat this calculation for each side of your site and use the smallest value for you grid spacing

Side	Length (ft.)	∆Elevation	Grid Spacing
AB			
BC			
CD			
DA			

Topographic Survey

Construction of Contours

- ➢ Grid spacing = Length/|∆Elevation|
- Repeat this calculation for each side of your site and use the smallest value for you grid spacing
- Select the smallest spacing = 40 ft.

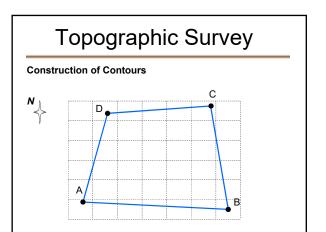
Side	Length (ft.)	∆Elevation	Grid Spacing
AB			
BC			
CD			
DA			

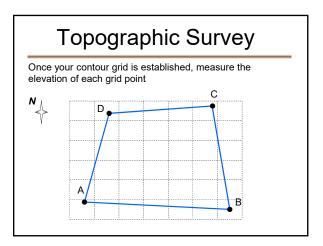
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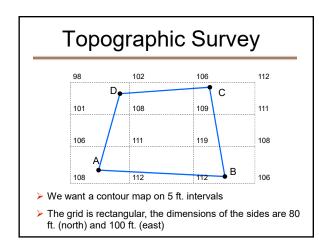
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- If the grid spacing value is problematic to use or set-up, round down to a convenient value – probably a multiple of 10 ft.
- Grid spacing is 40 ft.

Side	Length (ft.)	∆Elevation	Grid Spacing
AB	150	103-100	50
BC	100	105-103	50
CD	160	101-105	40
DA	90	100-101	90









Construction of Contours

- The basic method for estimating contour is applied to each grid cell individually
- Use *linear interpolation* to find the location of the desired contour interval
- Let consider the cell in the upper left-hand corner remember the contour interval is 5 ft.

