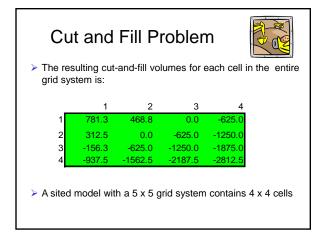
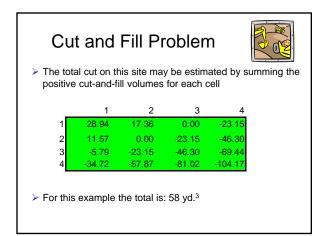
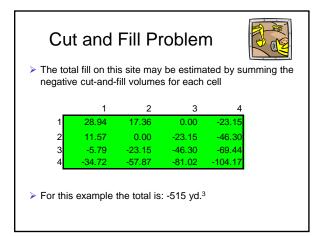
Compute the total cut-and-fill for the following site						
The original elevations are:						
	1	2	3	4	5	
1	105	104	104	103	102	
2	104	104	103	102	101	
3	103	103	102	101	100	
4	103	102	101	100	99	
5	101	100	99	98	97	

			ill compute		0
eleva gives		inal elevat	tions minu	s propose	d elevation:
giveo	,. 1	2	3	4	5
1	2.00	1.00	1.00	0.00	-1.00
2	1.00	1.00	0.00	-1.00	-2.00
3	0.00	0.00	-1.00	-2.00	-3.00
	0.00	-1.00	-2.00	-3.00	-4.00
4					



Cut and Fill Problem								
	1	2	3	4				
1	28.94	17.36	0.00	<mark>-23.15</mark>				
2	11.57	0.00	-23.15	-46.30				
3	-5.79	-23.15	-46.30	-69.44				
4	-34.72	-57.87	-81.02	-104.17				
Volumes converted to yd. <sup>3</sup>								









- An estimate of the cost of cut-and-fill for the entire site can be made by considering:
- > On-site cost (\$2.50/yd.3) for total cut-and-fill volume:

Onsite = 
$$\left(\frac{\$2.50}{\text{yd.}^3}\right)(\text{cut} - \text{fill}) = \left(\frac{\$2.50}{\text{yd.}^3}\right)(58 - (-515))\text{yd.}^3$$

Onsite = \$1,432

 Note: since fill volume is always (-) negative, therefore to compute the total earthwork volume use (cut – fill)

