Project Name
Earthwork Analysis

CUT/FILL - QUANTITY STUDY — Project Stage

project: Enter Project Name here

by: Enter Initials here — Bid Sheet Entries

LDD TINs Used

LDD TIN Method ← If Grid, enter spacing

fill adjustment → 15%

Grubbing Adjustments

grubbing depth for wooded areas	0.75	ft
grubbing depth for grassed areas	0.50	ft
Re-useable depth for wooded areas after screening	0.50	ft
Re-useable depth for grassed areas after screening	0.40	ft
Depth Source:	Assumed	

		in cut	in fill
Total disturbed grassed area	2.0 ac	43,560 sf	43,560 sf
Total disturbed wooded area	2.0 ac	43,560 sf	43,560 sf
Total disturbed area	4.0 ac	2.0 ac	2.0 ac

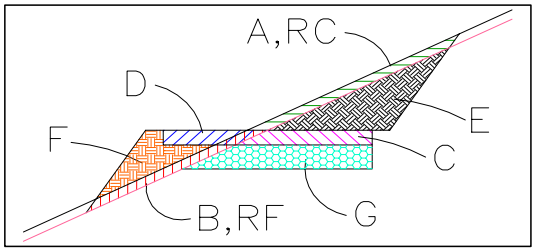
Grubbing Volume in cut	A -	2,017			cy
Grubbing Volume in fill			B -	2,017	cy
Total Grubbing volume			A+B -	4,033	cy
Re-useable Volume in cut	RC -	1,452			cy
Re-useable Volume in fill			RF -	1,452	cy
Total Re-useable volume			RC+RF -	2,904	cy

Paving / Building / Misc Adjustments

	depth (in.)	in cut	in fill
Paving area	8.5 in. depth	10,000 sf	10,000 sf
Building area	6.0 in. depth	5,000 sf	5,000 sf
Driveway area	6.0 in. depth	2,000 sf	2,000 sf
Sidewalk area	4.0 in. depth	1,000 sf	1,000 sf
Undercut area	12.0 in. depth	10,000 sf	

Cut / Fill Summary

		by surface area cut		by surface area fill	
Total volume output from SoftDesk (existing to finished grades)	A+E -	5,000	D+F -	5,000	cy
Paving	C -	262	D -	(262)	cy
Building	C -	93	D -	(93)	cy
Driveway	C -	37	D -	(37)	cy
Sidewalk	C -	12	D -	(12)	cy
Total topsoil volume	A -	(2,017)	B -	2,017	cy
subtotals	C+E -	3,388	B+F -	6,612	cy
Plus compaction volume				+ 992	cy
Excavation →		3,388		7,604	
Undercut off-site disposal	G -	370			
Undercut off-site borrow				426	



off-site borrow → **4,642** cy

off-site disposal → **370** cy

(assumes no topsoil / grubbing used)

drop site 0.72 feet to balance

Off-site borrow if re-useable topsoil is utilized **2,313** cy

drop site 0.42 feet to balance

Topsoil for berms	**1,000**	cy
Topsoil debris to be disposed of if utilized (A+B)-(RC+RF)	**1,129**	cy
Topsoil & Topsoil debris to be disposed of if not utilized	**3,033**	cy
Surface area of the bioretention pit		sf
Soil removal from pit (assumes 4" for organic, 4' for soil mix and 8" for gravel)		cy
Soil mix required for pond		cy
Organics for pond surface		cy
Gravel for pond drain system		cy