

Earthwork Summary Worksheet - Raw Numbers				
Item	Stage 1	Stage 2	Stage 3	Stage 4
Mainline Unclassified Excavation (Cut)	A	AA		
Mainline Embankment (Fill)	B	BB		
Sideroad Unclassified Excavation (Cut)	C	CC		
Sideroad Embankment (Fill)	D	DD		
Construct Detour - Excavation	E	EE		
Construct Detour - Embankment	F	FF		
Remove Detour - Excavation	0	GG		
Shrinkage	25%			
May need to separate excavation within each stage if rock is present.				

Earthwork by stages (Use Swell the Fill method if no rock is being used in fills)				
Stage 1				
Adjusted Embankment	$(B+D+F)/(.75)$			
Excavation	$(A+C+E)$			
Unsuitable material				
Useable Fill	$(A+C+E)$ - unsuitable mat'l			
Borrow needed				
Soil Available for later stages				

Earthwork by stages (Use Swell the Fill method if no rock is being used in fills)				
Stage 2				
Adjusted Embankment	$(BB+DD+FF)/(.75)$			
Excavation	$(AA+CC+EE)$			
Unsuitable material				
Useable Fill				
Soil Available from previous stages				
Usable fill				
Borrow				
Waste if last stage				