

## STONE BANK APPROXIMATE AREA CALCULATIONS

1/4/21

### Roof Areas

Approximate Existing Roof Area	6,850 SF
Approximate Finished Roof Area	11,200 SF
Added Roof Area	4,350 SF

### Paved Areas

Approximate Existing Paving (Asphalt Parking and Walks)	12,500 SF
Approximate Finished Paved Area (Walks)	2,850 SF
Reduction in Paved Area	9,650 SF

### Storm Water Percolation Calculation:

Total Land Area 0.71 Acres x 43,560sf/acre =	30,927 SF
Less Finished Roof Area	(11,200 SF)
Less Finished Paved Area	(2,850 SF)
Plus Gravel Area Under Units 7 & 8	<u>1,910 SF</u>
Pervious Area Available for Percolation	18,787 SF

Runoff in 2 Year Rainstorm = 1.25 in/hr x 30,927 SF Site Area =	3,222 CF
Percolation at 2.5in/hr x 18,787 SF Pervious Area =	3,913 CF
Percolation at 2.0 in/hr x 18,787 SF Pervious Area =	3,131 CF

Conclusion: No Additional Storm Water Facilities Required