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 1,910 SF
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