

## ST. ANTHONY FALLS (SAF) BASIN CHECKLIST

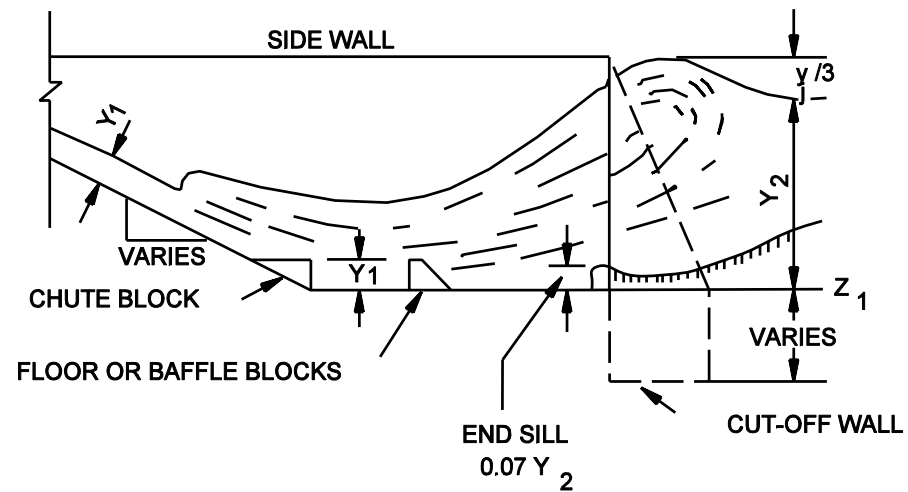
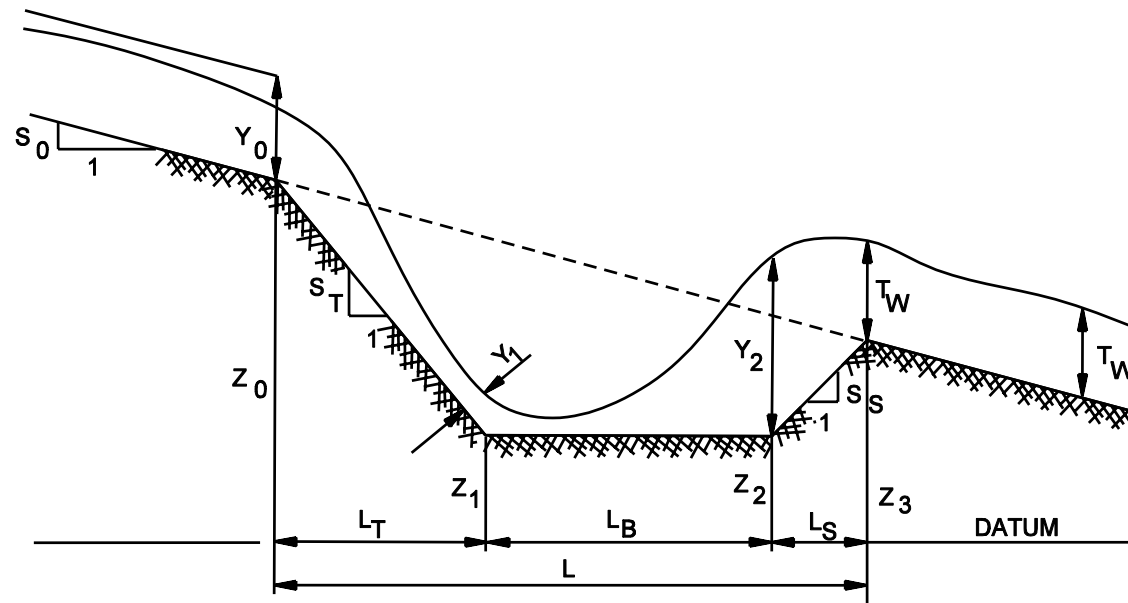
Project No. \_\_\_\_\_

Designer \_\_\_\_\_ Date \_\_\_\_\_

Reviewer \_\_\_\_\_ Date \_\_\_\_\_

SAF BASIN DESIGN VALUES	TRIAL 1	FINAL TRIAL
Type		
Flare (z:1)		
Width, $W_B$		
Depression, $B_d$		
$S_S = S_T$		
Depth, $d_o$		
Velocity, $V_o$		
$B_o = d_o + V_o^2 / 2g$		
Depth, $d_1$		
Velocity, $V_1$		
$Fr_1$		
$d_j$		
$L_B$		
$d_2$		
$L_S$		
$L_T = B_d / S_T$		
$L = L_B + L_S + L_T$		
$B_d = LS_o + TW$		

DIMENSIONS OF ELEMENTS	TRIAL 1	FINAL TRIAL	DIMENSIONS OF ELEMENTS	TRIAL 1	FINAL TRIAL
CHUTE BLOCK			BAFFLE BLOCK		
Height, $h_1$			Height, $h_3$		
Width, $W_1$			Width, $W_3$		
Spacing, $W_2$			Spacing, $W_4$		
Block No., $N_C$			Block No., $N_B$		
END SILL			SIDE WALL		
Height, $h_4$			Height, $h_5$		



**ST. ANTHONY FALLS BASIN DETAILS**