ST. ANTHONY FALLS (SAF) BASIN CHECKLIST

Project No. _____

Designer _____ Date _____

Reviewer _____ Date _____

SAF BASIN DESIGN VALUES	TRIAL 1	FINAL TRIAL
Type	Rect.	Rect.
Flare (z:1)	1:1	1:1
Width, W_B	7.00	7.00
Depression, B_d	6.00	7.40
$S_S = S_T$	1:1	1:1
Depth, d_o	2.07	2.07
Velocity, V_o	28.7	28.7
$B_o = d_o+V_o^2/2g$	20.83	22.89
Depth, d_1	1.67	1.60
Velocity, V_1	35.47	36.93
Fr_1	4.80	5.11
d_j	10.50	10.53
L_B	14.33	13.93
d_2	9.53	9.40
L_S	6.67	6.53
$L_T = B_d / S_T$	6.00	8.03
$L = L_B+L_S+L_T$	27.00	28.50
$B_d = LS_o+ TW$	7.52	9.47

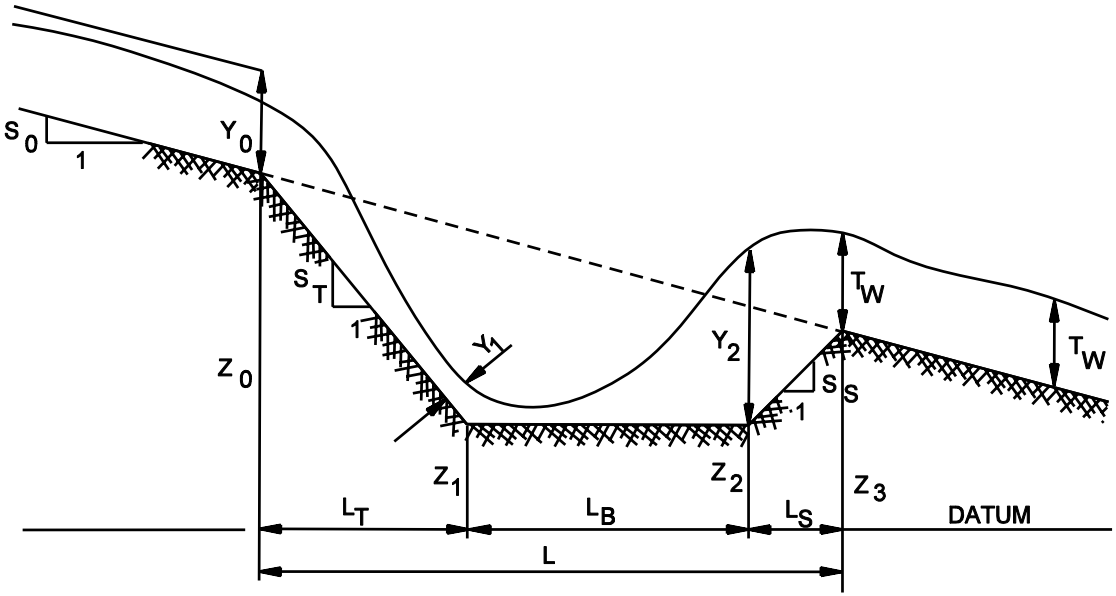
DIMENSIONS OF ELEMENTS	TRIAL 1	FINAL TRIAL	DIMENSIONS OF ELEMENTS	TRIAL 1	FINAL TRIAL
CHUTE BLOCK			BAFFLE BLOCK		
Height, h_1	1.60	1.60	Height, h_3	1.60	1.60
Width, W_1	1.17	1.17	Width, W_3	1.17	1.17
Spacing, W_2	1.17	1.17	Spacing, W_4	1.17	1.17
Block No., N_C	3	3	Block No., N_B	3	3
END SILL			SIDE WALL		
Height, h_4	0.73	0.73	Height, h_5	12.87	12.87

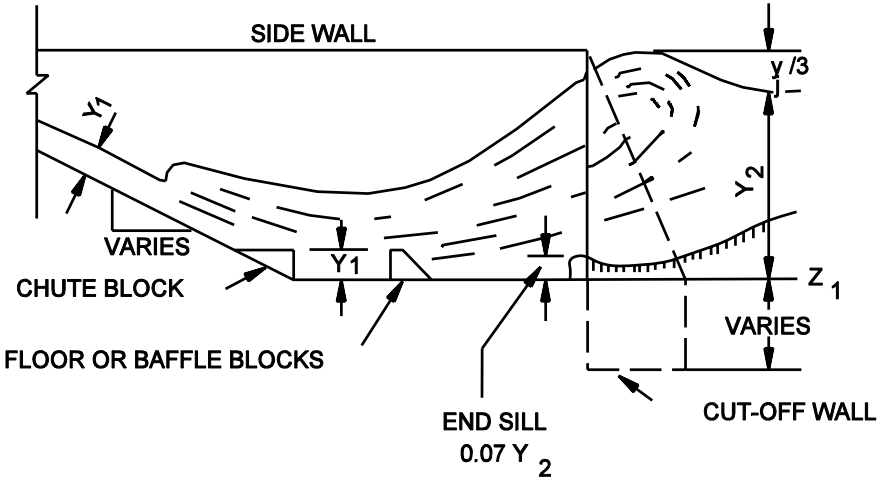
St. Anthony Falls Basin Details (Design Example)

Click When Done

Clear Data

Back To Basin Example





ST. ANTHONY FALLS BASIN DETAILS
(Example Problem)