Tabe 2.11 Sump Inlets in John Street Double Type "A" Inlet Capacity Calculations John Street Feasibility Design Analysis Report

0.00

0.50

Curb Opening (Treated As Orifice)		Grate (Treated As Weir)		Grate (Treated As Orifice)			
Orifice Calcs		Weir Flow Calcs		Orifice Calcs			Weir and
						100.0	(select eqn fo
Qo = .6AV2gh		Qw = 2.7L(H)1.5		Qo = .6Av2gh		90.0	
A = Open area of weir (sq. ft)	5.5	P = Perimeter (ft)		A = Open area of grate (sq. ft)	14.6	80.0	
						70.0	
g = 32.2 (ft/s2)	32.20	H = Head (ft)	0.67	g = 32.2 (ft/s2)	32.20	70.0	
H = Head (ft)	0.67	coefficient of discharge =	2.70	H = Head (ft)	0.67	0.09(cfs)	
clogging factor =	0%	clogging factor =	15%	clogging factor =	15%	0 0 _{50.0}	
Qw = Capacity (cfs)	21.6	Qw = Capacity (cfs)	0.0	Qo = Capacity (cfs)	48.9	40.0	
Number of Inlets	4			Number of Inlet	s 4		
Total Discharge (cfs):	86.5			Total Discharge (cfs)	195.5	30.0	\$
Notes:		Notes:		Notes:		20.0	
Type "A" Double curb opening is approximately 6 inches				Total length of grate is 81 inches (6.75 fee	t), then grate	/	
(0.5 feet) tall by 26 inches wide (11 feet). 8 inch (0.67 feet)				width total is 21 inches (2.17 feet).		10.0	
curb height, or head available.						0.0	

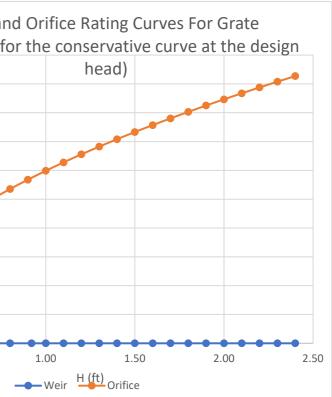


Table 2.12 Sump Inlets in Williams Street Double Type "A" Inlet Capacity Calculations John Street Feasibility Design Analysis Report

0.00

0.50

Curb Opening (Treated As Orifice)		Grate (Treated As Weir)		Grate (Treated As Orifice)			
Orifice Calcs		Weir Flow Calcs		Orifice Calcs			Weir and
						100.0	(select eqn for
Qo = .6AV2gh		Qw = 2.7L(H)1.5		Qo = .6AV2gh		90.0	
						90.0	
A = Open area of weir (sq. ft)	5.5	P = Perimeter (ft)		A = Open area of grate (sq. ft)	14.6	80.0	
			0.67			70.0	
g = 32.2 (ft/s2)	32.20	H = Head (ft)	0.67	g = 32.2 (ft/s2)	32.20	70.0	
H = Head (ft)	0.67	coefficient of discharge =	2.70	H = Head (ft)	0.67	0.09(ct2)	
clogging factor =	0%	clogging factor =	15%	clogging factor =	15%	0 0 _{50.0}	
Qw = Capacity (cfs)	21.6	Qw = Capacity (cfs)	0.0	Qo = Capacity (cfs)	48.9	40.0	
Number of Inlets	4			Number of Inlets	4		
Total Discharge (cfs):	86.5			Total Discharge (cfs):	195.5	30.0	
Notes:		Notes:		Notes:		20.0	
Type "A" Double curb opening is approximately 6 inches				Total length of grate is 81 inches (6.75 feet)	. then grate	/	
(0.5 feet) tall by 26 inches wide (11 feet). 8 inch (0.67 feet)				width total is 21 inches (2.17 feet).	,	10.0	
curb height, or head available.	(0.07 1000)						
						0.0 🔶	

