

SUMMARY OF STORMWATER STORAGE

Basin No.	Item	Total Storage Volume Provided	Total Storage Volume Required	Remarks
		CF	CF	
1	Silt Fences for Ditch Check	8613.2		
1	Rock Check Dam	0.0		
1	Silt Basin	570.0		
1	Total Storage	9183.2	6768.0	Requirement Met
2	Silt Fences for Ditch Check	9364.9		
2	Rock Check Dam	0.0		
2	Silt Basin	0.0		
2	Total Storage	9364.9	3672.0	Requirement Met
3	Silt Fences for Ditch Check	5767.7		
3	Rock Check Dam	0.0		
3	Silt Basin	2725.0		
3	Total Storage	8492.7	8136.0	Requirement Met
4	Silt Fences for Ditch Check	1264.0		
4	Rock Check Dam	0.0		
4	Silt Basin	1875.0		
4	Total Storage	3139.0	2772.0	Requirement Met
5	Silt Fences for Ditch Check	6099.1		
5	Rock Check Dam	0.0		
5	Silt Basin	2662.5		
5	Total Storage	8761.6	8568.0	Requirement Met
6	Silt Fences for Ditch Check	5221.1		
6	Rock Check Dam	0.0		
6	Silt Basin	6912.5		
6	Total Storage	12133.6	11916.0	Requirement Met
7	Silt Fences for Ditch Check	1996.8		
7	Rock Check Dam	0.0		
7	Silt Basin	0.0		
7	Total Storage	1996.8	1728.0	Requirement Met
8	Silt Fences for Ditch Check	28199.0		
8	Rock Check Dam	0.0		
8	Silt Basin	0.0		
8	Total Storage	28199.0	18972.0	Requirement Met
9	Silt Fences for Ditch Check	8691.2		
9	Rock Check Dam	0.0		
9	Silt Basin	0.0		
9	Total Storage	8691.2	8028.0	Requirement Met
10	Silt Fences for Ditch Check	0.0		
10	Rock Check Dam	0.0		
10	Silt Basin	1400.0		
10	Total Storage	1400.0	936.0	Requirement Met
11	Silt Fences for Ditch Check	4276.6		
11	Rock Check Dam	0.0		
11	Silt Basin	1400.0		
11	Total Storage	5676.6	4032.0	Requirement Met
12	Silt Fences for Ditch Check	5308.8		
12	Rock Check Dam	0.0		
12	Silt Basin	2375.0		
12	Total Storage	7683.8	4572.0	Requirement Met
13	Silt Fences for Ditch Check	18280.4		
13	Rock Check Dam	0.0		
13	Silt Basin	8075.0		
13	Total Storage	26355.4	21924.0	Requirement Met
14	Silt Fences for Ditch Check	1954.2		
14	Rock Check Dam	0.0		
14	Silt Basin	1225.0		
14	Total Storage	3179.2	2736.0	Requirement Met
15	Silt Fences for Ditch Check	6353.0		
15	Rock Check Dam	0.0		
15	Silt Basin	6106.3		
15	Total Storage	12459.3	10548.0	Requirement Met
16	Silt Fences for Ditch Check	9207.6		
16	Rock Check Dam	0.0		
16	Silt Basin	6137.5		
16	Total Storage	15345.1	11412.0	Requirement Met

SUMMARY OF STORMWATER STORAGE

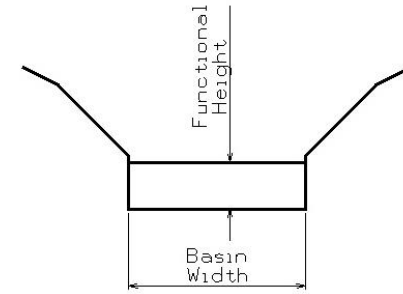
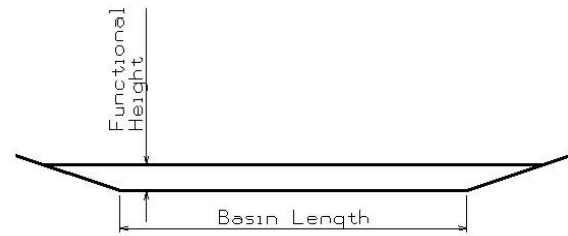
Basin No.	Item	Total Storage Volume Provided	Total Storage Volume Required	Remarks
		CF	CF	
17	Silt Fences for Ditch Check	6823.0		
17	Rock Check Dam	0.0		
17	Silt Basin	4500.0		
17	Total Storage	11323.0	7560.0	Requirement Met
18	Silt Fences for Ditch Check	2657.7		
18	Rock Check Dam	0.0		
18	Silt Basin	2375.0		
18	Total Storage	5032.7	4608.0	Requirement Met
19	Silt Fences for Ditch Check	0.0		
19	Rock Check Dam	0.0		
19	Silt Basin	2700.0		
19	Total Storage	2700.0	2556.0	Requirement Met
20	Silt Fences for Ditch Check	7460.4		
20	Rock Check Dam	0.0		
20	Silt Basin	2737.5		
20	Total Storage	10197.9	9072.0	Requirement Met
21	Silt Fences for Ditch Check	13939.2		
21	Rock Check Dam	0.0		
21	Silt Basin	9447.5		
21	Total Storage	23386.7	22356.0	Requirement Met
22	Silt Fences for Ditch Check	7582.2		
22	Rock Check Dam	0.0		
22	Silt Basin	4012.5		
22	Total Storage	11594.7	10692.0	Requirement Met
23	Silt Fences for Ditch Check	16005.1		
23	Rock Check Dam	0.0		
23	Silt Basin	3725.0		
23	Total Storage	19730.1	18792.0	Requirement Met

STORMWATER DRAINAGE BASIN

Basin No.	Station to Station		Side	Disturbed Area Acres	Discharge Point		Required Storage Volume CF	Remarks
					Station	Side		
1	601+50.00	611+15.00	Both	1.9	602+70.00	Left	6768.0	
2	611+15.00	622+90.00	Right	1.0	622+59.00	Right	3672.0	
3	610+60.00	630+67.00	Left	2.3	Sheet Flow	Left	8136.0	
4	621+73.00	631+25.00	Right	0.8	Sheet Flow	Right	2772.0	
5	630+67.00	643+75.00	Both	2.4	Sheet Flow	Left	8568.0	Culvert Discharge at 638+50
6	643+75.00	659+50.00	Both	3.3	Sheet Flow	Right	11916.0	Culvert Discharge at 652+31 Right
7	658+62.00	663+20.00	Left	0.5	Sheet Flow	Left	1728.0	
8	659+21.00	704+10.00	Both	5.3	670+60.00	Right	18972.0	
9	672+55.00	697+50.00	Right	2.2	672+74.00	Right	8028.0	
10	704+15.00	705+15.00	Left	0.3	704+82.00	Left	936.0	
11	705+15.00	714+72.00	Left	1.1	705+41.00	Left	4032.0	
12	707+35.00	718+25.00	Right	1.3	697+50.00	Right	4572.0	Storm Sewer to Discharge Point
13	714+65.00	745+85.00	Both	6.1	732+24.00	Left	21924.0	Some Sheet Flow Sta.726 to Sta.730
14	745+85.00	754+00.00	Right	0.8	753+58.00	Right	2736.0	
15	745+85.00	764+61.00	Both	2.9	763+89.00	Left	10548.0	
16	764+61.00	801+61.00	Left	3.2	Sheet Flow	Left	11412.0	Partial Sheet Flow Sta.779 to Sta.786
17	764+61.00	785+80.00	Right	2.1	Sheet Flow	Right	7560.0	Partial Sheet Flow Sta.770 to Sta.780
18	785+80.00	797+00.00	Right	1.3	Sheet Flow	Right	4608.0	Partial Sheet Flow Sta.786 to Sta.788
19	797+00.00	804+60.00	Right	0.7	Sheet Flow	Right	2556.0	Partial Sheet Flow Sta.797 to Sta.799
20	801+61.00	812+75.00	Both	2.5	808+92.00	Left	9072.0	
21	812+75.00	831+94.00	Both	6.2	820+00.00	Left	22356.0	
22	831+94.00	842+21.00	Both	3.0	835+80.00	Left	10692.0	
23	842+21.00	864+58.00	Both	5.2	858+63.00	Left	18792.0	

SILT BASINS

Possible Standard: EW-403



* The functional height used in the volume equation is 95% of effective height. Effective height is 3 feet as shown in EW-403.
* Volume equation: $(0.5 * \text{Length} * (\text{Width} * \text{Height} + \text{Width} * (\text{Height} - \text{Length} * \text{Avg} \% \text{Slope})))$

Basin No.	Location		Bid Items		Stormwater Storage Volume Summary					Remarks
	Station	Side	Installation	Removal	Basin Width FT	Basin Length FT	Height FT	Avg. % Slope	Volume* CF	
			EACH	EACH						
1	602+75.00	Lt.	1	1	10.0	20.0	2.85	0.0%	570.0	Culv. Outflow
3	621+44.00	Lt.	1	1	10.0	50.0	2.85	0.0%	1425.0	Ditch Outlet
3	612+33.00	Lt.	1	1	10.0	50.0	2.85	1.0%	1300.0	Ditch Outlet
4	623+00.00	Rt.	1	1	10.0	50.0	2.85	7.2%	712.5	Pfeiler Road
4	626+28.00	Rt.	1	1	10.0	50.0	2.85	2.1%	1162.5	Ditch Outlet
5	638+50.00	Lt.	1	1	10.0	50.0	2.85	0.0%	1425.0	Culv. Outflow
5	640+75.00	Lt.	1	1	10.0	50.0	2.85	1.5%	1237.5	Curb Letdown
6	652+25.00	Lt.	1	1	10.0	50.0	2.85	0.0%	1425.0	Culv. Inlet
6	652+35.00	Lt.	1	1	10.0	50.0	2.85	0.0%	1425.0	Culv. Inlet
6	652+30.00	Rt.	1	1	10.0	50.0	2.85	0.0%	1425.0	Culv. Outflow
6	650+67.00	Lt.	1	1	10.0	50.0	2.85	1.0%	1300.0	Curb Letdown
6	656+44.00	Rt.	1	1	10.0	50.0	2.85	0.7%	1337.5	Ditch Outlet
10	10702+62.00	Rt.	1	1	10.0	50.0	2.85	0.2%	1400.0	Midway Ditch Out
11	10701+65.00	Lt.	1	1	10.0	50.0	2.85	0.2%	1400.0	Midway Ditch Out
12	707+70.00	Rt.	1	1	10.0	50.0	2.85	1.8%	1200.0	Storm Sewer Inle
12	697+52.00	104' Rt.	1	1	10.0	50.0	2.85	2.0%	1175.0	Storm Sewer Outl
13	732+25.00	Lt.	1	1	10.0	50.0	2.85	0.1%	1412.5	Culv. Outflow
13	732+70.00	Lt.	1	1	10.0	50.0	2.85	0.1%	1412.5	Ditch Outlet
13	739+00.00	Lt.	1	1	10.0	50.0	2.85	4.2%	900.0	Storm Sewer Outl
13	743+10.00	Lt.	1	1	10.0	50.0	2.85	3.1%	1037.5	Culv. Inlet
13	739+56.00	Rt.	1	1	10.0	50.0	2.85	8.0%	712.5	Curb Letdown
13	732+22.00	Rt.	1	1	10.0	50.0	2.85	1.0%	1300.0	Culv. Inlet
13	732+27.00	Rt.	1	1	10.0	50.0	2.85	1.0%	1300.0	Culv. Inlet
14	753+42.00	Rt.	1	1	10.0	50.0	2.85	1.6%	1225.0	Ditch Outlet
15	750+15.00	Lt.	1	1	10.0	50.0	2.85	1.0%	1300.0	SS Inlet
15	756+45.00	Lt.	1	1	10.0	50.0	2.85	2.0%	1175.0	SS Outlet
15	763+90.00	Lt.	1	1	5.0	50.0	2.85	4.3%	443.8	Longitudinal to
15	763+77.00	Lt.	1	1	10.0	50.0	2.85	4.3%	887.5	Place Before Spl
15	763+90.00	Rt.	1	1	10.0	50.0	2.85	2.3%	1137.5	Place in front o
15	757+75.00	Rt.	1	1	10.0	50.0	2.85	2.1%	1162.5	After Curb Letdo
16	767+10.00	Lt.	1	1	10.0	50.0	2.85	1.5%	1237.5	
16	770+25.00	Lt.	1	1	10.0	50.0	2.85	1.6%	1225.0	
16	780+70.00	Lt.	1	1	10.0	50.0	2.85	1.0%	1300.0	
16	788+80.00	Lt.	1	1	10.0	50.0	2.85	1.9%	1187.5	
16	792+89.00	Lt.	1	1	10.0	50.0	2.85	1.9%	1187.5	
17	773+43.00	Rt.	1	1	10.0	50.0	2.85	1.4%	1250.0	
17	776+50.00	Rt.	1	1	10.0	50.0	2.85	1.6%	1225.0	
17	779+50.00	Rt.	1	1	10.0	50.0	2.85	0.2%	1400.0	
17	781+40.00	Rt.	1	1	5.0	50.0	2.85	1.4%	625.0	
18	788+40.00	Rt.	1	1	10.0	50.0	2.85	1.9%	1187.5	
18	792+48.00	Rt.	1	1	10.0	50.0	2.85	1.9%	1187.5	
19	799+00.00	Rt.	1	1	10.0	50.0	2.85	0.4%	1375.0	
19	802+00.00	Rt.	1	1	10.0	50.0	2.85	0.8%	1325.0	
20	809+33.00	Rt.	1	1	10.0	50.0	2.85	0.0%	1425.0	
20	808+91.00	Lt.	1	1	10.0	50.0	2.85	0.9%	1312.5	
21	828+00.00	Lt.	1	1	15.0	100.0	2.85	4.9%	2137.5	Odd Sized to mee
21	821+00.00	Lt.	1	1	15.0	100.0	2.85	5.1%	2137.5	Odd Sized to mee
21	819+75.00	Lt.	1	1	12.0	100.0	2.85	4.7%	1710.0	Odd Sized to mee
21	818+69.00	Lt.	1	1	10.0	50.0	2.85	8.4%	712.5	
21	820+25.00	Rt.	1	1	10.0	50.0	2.85	3.1%	1037.5	
21	823+24.00	Rt.	1	1	10.0	50.0	2.85	4.5%	862.5	
21	828+60.00	Rt.	1	1	10.0	50.0	2.85	4.6%	850.0	
22	836+19.00	Rt.	1	1	10.0	50.0	2.85	0.0%	1425.0	
22	835+18.00	Lt.	1	1	10.0	50.0	2.85	5.3%	762.5	
22	836+33.00	Lt.	1	1	10.0	50.0	2.85	6.7%	712.5	
22	835+83.00	Lt.	1	1	10.0	50.0	2.85	2.5%	1112.5	
23	858+00.00	Lt.	1	1	10.0	50.0	2.85	15.1%	712.5	
23	858+67.00	Lt.	1	1	5.0	50.0	2.85	5.2%	387.5	Longitudinal to
23	861+00.00	Lt.	1	1	10.0	50.0	2.85	3.5%	987.5	
23	858+00.00	Rt.	1	1	10.0	50.0	2.85	4.7%	837.5	
23	859+25.00	Rt.	1	1	10.0	50.0	2.85	5.0%	800.0	

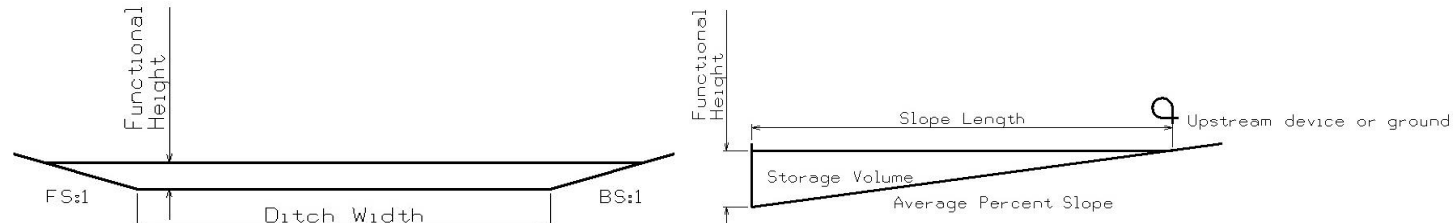
TABULATION OF SILT FENCES

Refer to EC-201

Begin Station	End Station	Side	Location	Remarks
			Length LF	
601+50.00	602+69.00	Lt.	139.0	
602+80.00	605+62.00	Lt.	322.0	
605+35.00	607+31.00	Rt.	216.0	
605+38.00	607+36.00	Rt.	218.0	
607+70.50	608+30.50	Rt.	80.0	
612+33.00	617+93.00	Lt.	620.0	
618+28.00	621+42.00	Lt.	354.0	
622+59.00	626+78.00	Rt.	479.0	
627+80.00	631+18.00	Rt.	378.0	
630+68.00	638+49.00	Lt.	861.0	
631+18.00	638+49.00	Lt.	811.0	
638+65.00	640+66.00	Lt.	241.0	
638+67.00	640+62.00	Lt.	215.0	
640+88.00	642+35.00	Lt.	167.0	
640+93.00	642+36.00	Lt.	163.0	
642+76.00	643+73.00	Lt.	117.0	
643+75.00	652+10.00	Lt.	935.0	
649+00.00	652+25.00	Rt.	365.0	
652+35.00	656+50.00	Rt.	475.0	
652+50.00	659+50.00	Rt.	780.0	
655+85.00	659+15.00	Lt.	370.0	
659+50.00	663+20.00	Lt.	410.0	
667+15.00	669+45.00	Rt.	270.0	
670+62.00	672+55.00	Rt.	213.0	
10701+50.00	10702+50.00	Rt.	120.0	Basin 9 Midway Rd. Basin 11
715+00.00	715+50.00	Rt.	70.0	
723+00.00	733+00.00	Lt.	1100.0	
740+00.00	743+00.00	Lt.	340.0	
743+75.00	745+85.00	Rt.	250.0	
720+00.00	721+00.00	Rt.	120.0	
745+85.00	746+48.00	Rt.	83.0	
748+10.00	748+70.00	Rt.	80.0	
753+40.00	754+00.00	Rt.	80.0	Note Next Line
754+00.00	754+72.00	Rt.	92.0	Cont. From Basin 14
767+00.00	781+00.00	Lt.	1540.0	
776+50.00	780+50.00	Rt.	440.0	
785+75.00	788+50.00	Rt.	315.0	
807+90.00	809+13.00	Lt.	143.0	
816+70.00	819+00.00	Rt.	270.0	
821+41.00	823+28.00	Rt.	207.0	
840+00.00	842+09.00	Lt.	249.0	Note Next Line
857+80.00	860+00.00	Rt.	260.0	
842+09.00	844+00.00	Lt.	211.0	Cont. From Basin 22
859+85.00	863+86.00	Lt.	461.0	
			0.0	
Silt Fence Tab Total			11079.0	
Silt Fence Bid Total			13848.8	125% Of Tab Total
Maintenance Total			1385.0	10% of Bid Total
Removal Total			13848.8	100% of Bid Total

SILT FENCES FOR DITCH CHECKS

Possible Standard: EC-201 Possible Detail: 570-4

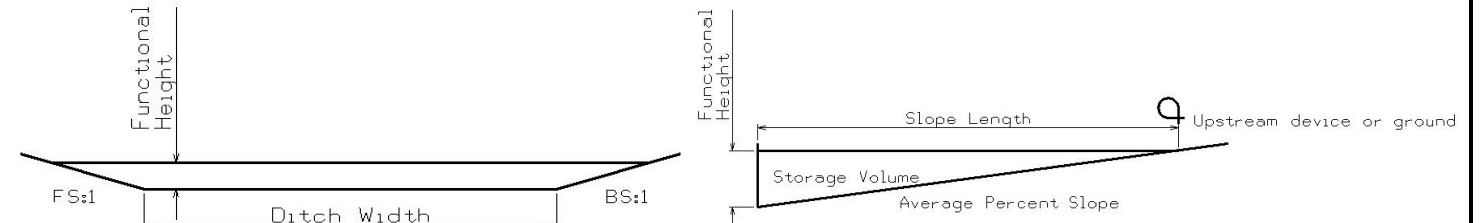


* The functional height used in the volume equation is 85% of effective height. Effective height is 1.58 feet as shown on EC-201.
* Volume equation: $[0.5 * Spacing * (0.5 * H^2 * FS + DW * H + 0.5 * H^2 * BS)]$

Basin No.	Type	Location		Bid Items			Stormwater Storage Volume Summary					Remarks
		Station	Side	Installation LF	Maintenance LF	Removal LF	Foreslope FS:1	Backslope BS:1	Ditch Width FT	Avg. % Slope	Volume* CF	
12	1	710+15.00	Rt.	17.0	1.7	17.0	4.0	3.0	5.0	1.8%	488.5	
12	1	710+90.00	Rt.	17.0	1.7	17.0	4.0	3.0	5.0	1.8%	488.5	
12	1	711+65.00	Rt.	17.0	1.7	17.0	4.0	3.0	5.0	1.8%	488.5	
12	1	712+40.00	Rt.	17.0	1.7	17.0	4.0	3.0	5.0	1.8%	488.5	
12	1	713+15.00	Rt.	17.0	1.7	17.0	4.0	3.0	5.0	1.8%	488.5	
12	1	713+90.00	Rt.	17.0	1.7	17.0	4.0	3.0	5.0	1.8%	488.5	
12	1	716+65.00	Rt.	17.0	1.7	17.0	4.0	3.0	5.0	1.3%	651.4	
12	1	717+65.00	Rt.	17.0	1.7	17.0	4.0	3.0	5.0	1.2%	260.6	
											5308.8	
13	1	721+75.00	Rt.	17.0	1.7	17.0	4.0	3.0	5.0	-1.7%	488.5	
13	1	722+50.00	Rt.	17.0	1.7	17.0	4.0	3.0	5.0	-1.9%	488.5	
13	1	723+10.00	Rt.	17.0	1.7	17.0	4.0	3.0	5.0	-2.2%	390.8	
13	1	723+85.00	Rt.	17.0	1.7	17.0	4.0	3.0	5.0	-2.0%	488.5	
13	1	724+60.00	Rt.	17.0	1.7	17.0	4.0	3.0	5.0	-2.0%	488.5	
13	1	725+20.00	Rt.	17.0	1.7	17.0	4.0	3.0	5.0	-2.3%	390.8	
13	1	728+35.00	Rt.	20.0	2.0	20.0	6.0	3.0	5.0	-0.5%	2335.9	
13	1	729+90.00	Rt.	20.0	2.0	20.0	6.0	3.0	5.0	-0.6%	1149.4	
13	1	732+00.00	Rt.	17.0	1.7	17.0	4.0	3.0	5.0	-0.6%	1009.7	
13	1	732+50.00	Rt.	17.0	1.7	17.0	4.0	3.0	5.0	1.6%	651.4	
13	1	733+50.00	Rt.	17.0	1.7	17.0	4.0	3.0	5.0	1.6%	293.1	
13	1	734+70.00	Rt.	17.0	1.7	17.0	4.0	3.0	5.0	1.6%	651.4	
13	1	736+50.00	Rt.	17.0	1.7	17.0	4.0	3.0	5.0	3.6%	293.1	
13	1	736+95.00	Rt.	17.0	1.7	17.0	4.0	3.0	5.0	3.6%	293.1	
13	1	737+40.00	Rt.	17.0	1.7	17.0	4.0	3.0	5.0	3.8%	260.6	
13	1	737+80.00	Rt.	17.0	1.7	17.0	4.0	3.0	5.0	4.1%	169.4	
13	1	718+60.00	Lt.	17.0	1.7	17.0	4.0	3.0	5.0	-0.7%	260.6	
13	1	720+15.00	Lt.	17.0	1.7	17.0	4.0	3.0	5.0	-0.7%	1009.7	
13	1	721+15.00	Lt.	17.0	1.7	17.0	4.0	3.0	5.0	-1.2%	651.4	
13	1	721+90.00	Lt.	17.0	1.7	17.0	4.0	3.0	5.0	-1.7%	488.5	
13	1	722+65.00	Lt.	17.0	1.7	17.0	4.0	3.0	5.0	-1.9%	488.5	
13	1	723+25.00	Lt.	17.0	1.7	17.0	4.0	3.0	5.0	-2.2%	390.8	
13	1	735+40.00	Lt.	17.0	1.7	17.0	4.0	3.0	5.0	4.5%	228.0	
13	1	735+75.00	Lt.	17.0	1.7	17.0	4.0	3.0	5.0	4.5%	228.0	
13	1	736+10.00	Lt.	17.0	1.7	17.0	4.0	3.0	5.0	3.3%	293.1	
13	1	736+55.00	Lt.	17.0	1.7	17.0	4.0	3.0	5.0	3.6%	293.1	
13	1	737+00.00	Lt.	17.0	1.7	17.0	4.0	3.0	5.0	3.8%	260.6	
13	1	737+40.00	Lt.	17.0	1.7	17.0	4.0	3.0	5.0	3.8%	260.6	
13	1	737+80.00	Lt.	17.0	1.7	17.0	4.0	3.0	5.0	4.1%	260.6	
13	1	738+20.00	Lt.	17.0	1.7	17.0	4.0	3.0	5.0	4.1%	260.6	
13	1	738+60.00	Lt.	17.0	1.7	17.0	4.0	3.0	5.0	4.2%	228.0	
13	1	738+95.00	Lt.	17.0	1.7	17.0	4.0	3.0	5.0	4.2%	228.0	
13	1	739+25.00	Lt.	17.0	1.7	17.0	4.0	3.0	5.0	4.2%	228.0	
13	1	739+60.00	Lt.	17.0	1.7	17.0	4.0	3.0	5.0	4.3%	228.0	
13	1	740+00.00	Lt.	17.0	1.7	17.0	4.0	3.0	5.0	4.0%	260.6	
13	1	743+30.00	Lt.	20.0	2.0	20.0	6.0	3.0	5.0	3.3%	333.7	
13	1	743+75.00	Lt.	20.0	2.0	20.0	6.0	3.0	5.0	3.3%	333.7	
13	1	744+20.00	Lt.	20.0	2.0	20.0	6.0	3.0	5.0	3.3%	333.7	
13	1	744+65.00	Lt.	20.0	2.0	20.0	6.0	3.0	5.0	-0.1%	889.9	
											18280.4	
14	1	749+30.00	Rt.	17.0	1.7	17.0	4.0	3.0	5.0	-1.2%	651.4	
14	1	750+30.00	Rt.	17.0	1.7	17.0	4.0	3.0	5.0	-1.4%	651.4	
14	1	751+30.00	Rt.	17.0	1.7	17.0	4.0	3.0	5.0	-1.6%	651.4	
											1954.2	
15	1	757+90.00	Rt.	17.0	1.7	17.0	4.0	3.0	5.0	-2.1%	84.7	
15	1	758+65.00	Rt.	17.0	1.7	17.0	4.0	3.0	5.0	-2.0%	488.5	
15	1	759+40.00	Rt.	20.0	2.0	20.0	6.0	3.0	5.0	-1.9%	556.2	
15	1	760+00.00	Rt.	20.0	2.0	20.0	6.0	3.0	5.0	-2.3%	444.9	
15	1	760+60.00	Rt.	20.0	2.0	20.0	6.0	3.0	5.0	-2.3%	444.9	
15	1	761+20.00	Rt.	20.0	2.0	20.0	6.0	3.0	5.0	-2.3%	444.9	
15	1	747+00.00	Lt.	17.0	1.7	17.0	4.0	3.0	5.0	-0.3%	749.1	
15	1	748+90.00	Lt.	17.0	1.7	17.0	4.0	3.0	5.0	-1.2%	651.4	
15	1	749+90.00	Lt.	17.0	1.7	17.0	4.0	3.0	5.0	-1.1%	651.4	
15	1	756+55.00	Lt.	17.0	1.7	17.0	4.0	3.0	5.0	-2.2%	208.4	
15	1	757+50.00	Lt.	17.0	1.7	17.0	4.0	3.0	5.0	-2.1%	488.5	
15	1	761+25.00	Lt.	17.0	1.7	17.0	4.0	3.0	5.0	-4.3%	228.0	

SILT FENCES FOR DITCH CHECKS

Possible Standard: EC-201 Possible Detail: 570-4

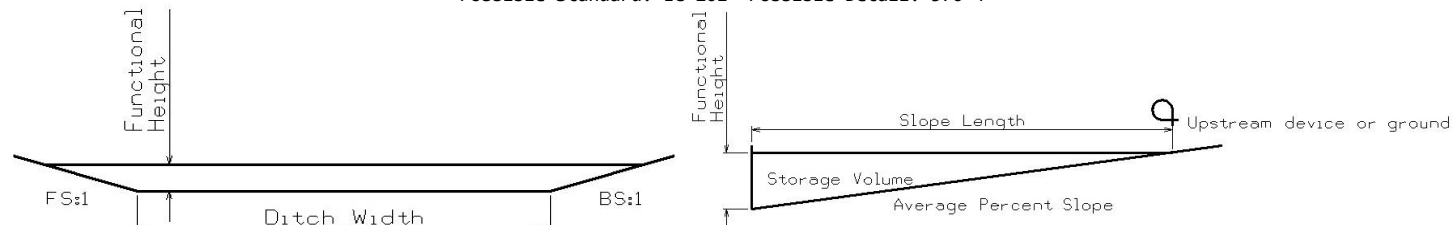


* The functional height used in the volume equation is 85% of effective height. Effective height is 1.58 feet as shown on EC-201.
* Volume equation: $[0.5 * Spacing * (0.5 * H^2 * FS + DW * H + 0.5 * H^2 * BS)]$

Basin No.	Type	Location		Bid Items			Stormwater Storage Volume Summary					Remarks
		Station	Side	Installation LF	Maintenance LF	Removal LF	Foreslope FS:1	Backslope BS:1	Ditch Width FT	Avg. % Slope	Volume* CF	
15	1	761+60.00	Lt.	17.0	1.7	17.0	4.0	3.0	5.0	-4.3%	228.0	
15	1	761+95.00	Lt.	17.0	1.7	17.0	4.0	3.0	5.0	-4.3%	228.0	
15	1	762+30.00	Lt.	17.0	1.7	17.0	4.0	3.0	5.0	-4.3%	228.0	
15	1	762+65.00	Lt.	17.0	1.7	17.0	4.0	3.0	5.0	-4.3%	228.0	
											6353.0	
16	1	782+35.00	Lt.	20.0	2.0	20.0	6.0	3.0	5.0	1.9%	556.2	
16	1	783+10.00	Lt.	20.0	2.0	20.0	6.0	3.0	5.0	2.2%	444.9	
16	1	783+70.00	Lt.	20.0	2.0	20.0	6.0	3.0	5.0	2.1%	556.2	
16	1	784+45.00	Lt.	20.0	2.0	20.0	6.0	3.0	5.0	2.0%	556.2	
16	1	785+20.00	Lt.	20.0	2.0	20.0	6.0	3.0	5.0	2.0%	556.2	
16	1	785+95.00	Lt.	20.0	2.0	20.0	6.0	3.0	5.0	2.2%	444.9	
16	1	787+40.00	Lt.	20.0	2.0	20.0	6.0	3.0	5.0	1.9%	556.2	
16	1	793+10.00	Lt.	17.0	1.7	17.0	4.0	3.0	5.0	1.8%	488.5	
16	1	793+85.00	Lt.	17.0	1.7	17.0	4.0	3.0	5.0	1.4%	651.4	
16	1	794+85.00	Lt.	17.0	1.7	17.0	4.0	3.0	5.0	0.8%	1009.7	
16	1	796+40.00	Lt.	17.0	1.7	17.0	4.0	3.0	5.0	0.5%	2051.9	
16	1	799+55.00	Lt.	17.0	1.7	17.0	4.0	3.0	5.0	0.4%	1335.3	
											9207.6	
17	1	764+70.00	Rt.	20.0	2.0	20.0	6.0	3.0	5.0	3.7%	74.2	
17	1	765+20.00	Rt.	20.0	2.0	20.0	6.0	3.0	5.0	-2.6%	370.8	
17	1	765+70.00	Rt.	20.0	2.0	20.0	6.0	3.0	5.0	-2.6%	370.8	
17	1	766+70.00	Rt.	20.0	2.0	20.0	6.0	3.0	5.0	-1.5%	741.6	
17	1	767+70.00	Rt.	20.0	2.0	20.0	6.0	3.0	5.0	-1.4%	741.6	
17	1	768+70.00	Rt.	20.0	2.0	20.0	6.0	3.0	5.0	-1.5%	741.6	
17	1	769+70.00	Rt.	20.0	2.0	20.0	6.0	3.0	5.0	-1.3%	741.6	
17	1	770+70.00	Rt.	20.0	2.0	20.0	6.0	3.0	5.0	-1.4%	741.6	
17	1	771+70.00	Rt.	17.0	1.7	17.0	4.0	3.0	5.0	-1.6%	651.4	
17	1	772+70.00	Rt.	17.0	1.7	17.0	4.0	3.0	5.0	-1.4%	651.4	
17	1	773+70.00	Rt.	17.0	1.7	17.0	4.0	3.0	5.0	-1.4%	651.4	
17	1	775+05.00	Rt.	17.0	1.7	17.0	4.0	3.0	5.0	-1.6%	345.2	
											6823.0	
18	1	790+20.00	Rt.	17.0	1.7	17.0	4.0	3.0	5.0	2.7%	325.7	
18	1	790+70.00	Rt.	17.0	1.7	17.0	4.0	3.0	5.0	2.2%	390.8	
18	1	791+30.00	Rt.	17.0	1.7	17.0	4.0	3.0	5.0	1.8%	312.7	
18	1	792+70.00	Rt.	17.0	1.7	17.0	4.0	3.0	5.0	1.9%	488.5	
18	1	793+45.00	Rt.	17.0	1.7	17.0	4.0	3.0	5.0	1.8%	488.5	
18	1	794+20.00	Rt.	17.0	1.7	17.0	4.0	3.0	5.0	1.3%	651.4	
											2657.7	
20	1	804+25.00	Rt.	20.0								

SILT FENCES FOR DITCH CHECKS

Possible Standard: EC-201 Possible Detail: 570-4

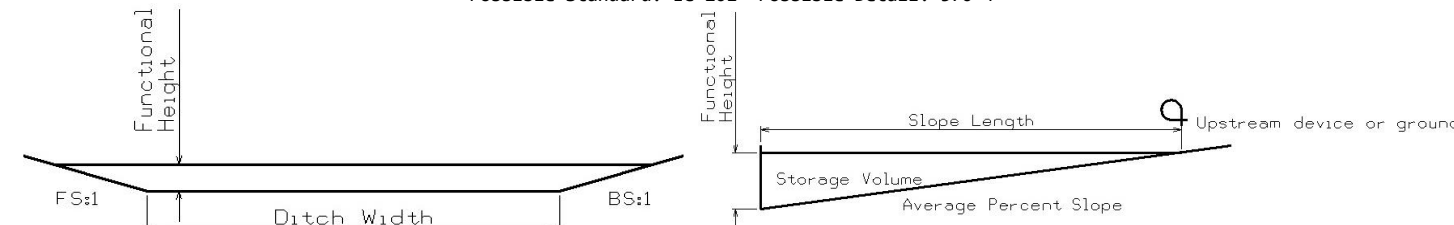


* The functional height used in the volume equation is 85% of effective height. Effective height is 1.58 feet as shown on EC-201.
* Volume equation: $[0.5 * Spacing * (0.5 * H^2 * FS + DW * H + 0.5 * H^2 * BS)]$

Basin No.	Type	Location		Bid Items			Stormwater Storage Volume Summary					Remarks
		Station	Side	Installation LF	Maintenance LF	Removal LF	Foreslope FS:1	Backslope BS:1	Ditch Width FT	Avg. % Slope	Volume* CF	
21	1	814+45.00	Rt.	17.0	1.7	17.0	4.0	3.0	5.0	-2.3%	390.8	
21	1	814+85.00	Rt.	20.0	2.0	20.0	6.0	3.0	5.0	-3.7%	296.6	
21	1	815+20.00	Rt.	20.0	2.0	20.0	6.0	3.0	5.0	-4.6%	259.5	
21	1	815+55.00	Rt.	20.0	2.0	20.0	6.0	3.0	5.0	-4.9%	259.5	
21	1	815+90.00	Rt.	20.0	2.0	20.0	6.0	3.0	5.0	-4.9%	259.5	
21	1	816+25.00	Rt.	20.0	2.0	20.0	6.0	3.0	5.0	-4.9%	259.5	
21	1	816+60.00	Rt.	20.0	2.0	20.0	6.0	3.0	5.0	-4.9%	259.5	
21	1	816+95.00	Rt.	20.0	2.0	20.0	6.0	3.0	5.0	-4.9%	259.5	
21	1	817+30.00	Rt.	20.0	2.0	20.0	6.0	3.0	5.0	-4.5%	259.5	
21	1	829+30.00	Rt.	20.0	2.0	20.0	6.0	3.0	5.0	3.9%	296.6	
21	1	829+70.00	Rt.	20.0	2.0	20.0	6.0	3.0	5.0	3.1%	370.8	
21	1	830+20.00	Rt.	17.0	1.7	17.0	4.0	3.0	5.0	1.8%	488.5	
21	1	830+95.00	Rt.	17.0	1.7	17.0	4.0	3.0	5.0	0.4%	403.9	
21	1	813+55.00	Lt.	17.0	1.7	17.0	4.0	3.0	5.0	-1.2%	651.4	
21	1	814+15.00	Lt.	17.0	1.7	17.0	4.0	3.0	5.0	-2.3%	390.8	
21	1	814+55.00	Lt.	17.0	1.7	17.0	4.0	3.0	5.0	-3.7%	260.6	
21	1	814+95.00	Lt.	17.0	1.7	17.0	4.0	3.0	5.0	-3.7%	260.6	
21	1	815+30.00	Lt.	17.0	1.7	17.0	4.0	3.0	5.0	-4.6%	228.0	
21	1	815+65.00	Lt.	17.0	1.7	17.0	4.0	3.0	5.0	-4.9%	228.0	
21	1	816+00.00	Lt.	17.0	1.7	17.0	4.0	3.0	5.0	-4.9%	228.0	
21	1	816+35.00	Lt.	17.0	1.7	17.0	4.0	3.0	5.0	-4.9%	228.0	
21	1	816+70.00	Lt.	17.0	1.7	17.0	4.0	3.0	5.0	-4.9%	228.0	
21	1	817+05.00	Lt.	17.0	1.7	17.0	4.0	3.0	5.0	-4.5%	228.0	
21	1	817+40.00	Lt.	17.0	1.7	17.0	4.0	3.0	5.0	-4.5%	228.0	
21	1	821+75.00	Lt.	17.0	1.7	17.0	4.0	3.0	5.0	5.1%	228.0	
21	1	822+10.00	Lt.	17.0	1.7	17.0	4.0	3.0	5.0	5.1%	228.0	
21	1	822+45.00	Lt.	17.0	1.7	17.0	4.0	3.0	5.0	5.1%	228.0	
21	1	822+80.00	Lt.	17.0	1.7	17.0	4.0	3.0	5.0	5.1%	228.0	
21	1	823+15.00	Lt.	17.0	1.7	17.0	4.0	3.0	5.0	5.1%	228.0	
21	1	823+50.00	Lt.	17.0	1.7	17.0	4.0	3.0	5.0	7.2%	162.8	
21	1	823+75.00	Lt.	17.0	1.7	17.0	4.0	3.0	5.0	7.2%	162.8	
21	1	824+00.00	Lt.	17.0	1.7	17.0	4.0	3.0	5.0	7.2%	162.8	
21	1	824+25.00	Lt.	17.0	1.7	17.0	4.0	3.0	5.0	7.2%	162.8	
21	1	824+50.00	Lt.	17.0	1.7	17.0	4.0	3.0	5.0	7.2%	162.8	
21	1	824+75.00	Lt.	17.0	1.7	17.0	4.0	3.0	5.0	7.2%	162.8	
21	1	825+00.00	Lt.	17.0	1.7	17.0	4.0	3.0	5.0	7.2%	162.8	
21	1	825+25.00	Lt.	17.0	1.7	17.0	4.0	3.0	5.0	7.2%	162.8	
21	1	825+50.00	Lt.	17.0	1.7	17.0	4.0	3.0	5.0	5.9%	162.8	
21	1	826+00.00	Lt.	17.0	1.7	17.0	4.0	3.0	5.0	6.1%	162.8	
21	1	826+85.00	Lt.	17.0	1.7	17.0	4.0	3.0	5.0	6.1%	162.8	
21	1	827+10.00	Lt.	17.0	1.7	17.0	4.0	3.0	5.0	6.0%	162.8	
21	1	827+35.00	Lt.	17.0	1.7	17.0	4.0	3.0	5.0	6.0%	162.8	
21	1	827+60.00	Lt.	17.0	1.7	17.0	4.0	3.0	5.0	5.6%	195.4	
21	1	827+90.00	Lt.	17.0	1.7	17.0	4.0	3.0	5.0	5.6%	195.4	
21	1	828+20.00	Lt.	17.0	1.7	17.0	4.0	3.0	5.0	4.9%	228.0	
21	1	828+55.00	Lt.	17.0	1.7	17.0	4.0	3.0	5.0	4.6%	228.0	
21	1	828+90.00	Lt.	17.0	1.7	17.0	4.0	3.0	5.0	4.6%	228.0	
21	1	829+25.00	Lt.	17.0	1.7	17.0	4.0	3.0	5.0	3.9%	260.6	
21	1	829+65.00	Lt.	17.0	1.7	17.0	4.0	3.0	5.0	3.1%	325.7	
21	1	830+15.00	Lt.	17.0	1.7	17.0	4.0	3.0	5.0	1.8%	488.5	
21	1	830+90.00	Lt.	17.0	1.7	17.0	4.0	3.0	5.0	0.4%	657.9	
											13939.2	
22	1	832+70.00	Rt.	17.0	1.7	17.0	4.0	3.0	5.0	-3.7%	260.6	
22	1	833+10.00	Rt.	17.0	1.7	17.0	4.0	3.0	5.0	-3.7%	260.6	
22	1	833+50.00	Rt.	17.0	1.7	17.0	4.0	3.0	5.0	-3.6%	260.6	
22	1	833+90.00	Rt.	17.0	1.7	17.0	4.0	3.0	5.0	-3.6%	260.6	
22	1	834+40.00	Rt.	17.0	1.7	17.0	4.0	3.0	5.0	-2.6%	325.7	
22	1	834+65.00	Rt.	17.0	1.7	17.0	4.0	3.0	5.0	-6.6%	162.8	
22	1	834+90.00	Rt.	17.0	1.7	17.0	4.0	3.0	5.0	-6.6%	162.8	
22	1	835+15.00	Rt.	17.0	1.7	17.0	4.0	3.0	5.0	-6.6%	162.8	
22	1	835+40.00	Rt.	17.0	1.7	17.0	4.0	3.0	5.0	-6.6%	162.8	
22	1	835+65.00	Rt.	17.0	1.7	17.0	4.0	3.0	5.0	-6.6%	162.8	
22	1	835+90.00	Rt.	17.0	1.7	17.0	4.0	3.0	5.0	-6.6%	162.8	
22	1	836+40.00	Rt.	17.0	1.7	17.0	4.0	3.0	5.0	-6.6%	162.8	
22	1	836+65.00	Rt.	17.0	1.7	17.0	4.0	3.0	5.0	7.1%	162.8	
22	1	836+90.00	Rt.	17.0	1.7	17.0	4.0	3.0	5.0	7.1%	162.8	
22	1	837+15.00	Rt.	17.0	1.7	17.0	4.0	3.0	5.0	7.1%	162.8	

SILT FENCES FOR DITCH CHECKS

Possible Standard: EC-201 Possible Detail: 570-4

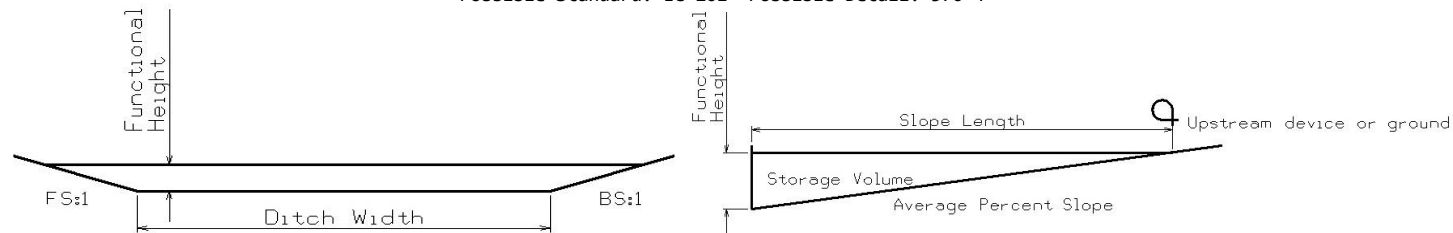


* The functional height used in the volume equation is 85% of effective height. Effective height is 1.58 feet as shown on EC-201.
* Volume equation: $[0.5 * Spacing * (0.5 * H^2 * FS + DW * H + 0.5 * H^2 * BS)]$

Basin No.	Type	Location		Bid Items			Stormwater Storage Volume Summary					Remarks
		Station	Side	Installation LF	Maintenance LF	Removal LF	Foreslope FS:1	Backslope BS:1	Ditch Width FT	Avg. % Slope	Volume* CF	
22	1	837+40.00	Rt.	17.0	1.7	17.0	4.0	3.0	5.0	7.1%	162.8	
22	1	837+65.00	Rt.	17.0	1.7	17.0	4.0	3.0	5.0	7.1%	162.8	
22	1	837+90.00	Rt.	17.0	1.7	17.0	4.0	3.0	5.0	7.1%	162.8	
22	1	838+15.00	Rt.	17.0	1.7	17.0	4.0	3.0	5.0	7.1%	162.8	
22	1	839+10.00	Rt.	17.0	1.7	17.0	4.0	3.0	5.0	3.7%	260.6	
22	1	839+50.00	Rt.	17.0	1.7	17.0	4.0	3.0	5.0	3.0%	325.7	
22	1	840+00.00	Rt.	17.0	1.7	17.0	4.0	3.0	5.0	2.2%	390.8	
22	1	840+60.00	Rt.	17.0	1.7	17.0	4.0	3.0	5.0	1.2%	651.4	
22	1	841+60.00	Rt.	17.0	1.7	17.0	4.0	3.0	5.0	-0.1%	312.7	
22	1	832+70.00	Lt.	17.0	1.7	17.0	4.0	3.0	5.0	-3.7%	104.2	
22	1	833+00.00	Lt.	17.0	1.7	17.0	4.0	3.0	5.0	-5.3%	195.4	
22	1	833+30.00	Lt.	17.0	1.7	17.0	4.0	3.0	5.0	-5.3%	195.4	
22	1	833+60.00	Lt.	17.0	1.7	17.0	4.0	3.0	5.0	-5.3%	195.4	
22	1	833+90.00	Lt.	17.0	1.7	17.0	4.0	3.0	5.0	-5.3%	195.4	
22	1	837+60.00	Lt.	17.0	1.7	17.0	4.0	3.0	5.0	3.2%	293.1	
22	1	838+05.00	Lt.	17.0	1.7	17.0	4.0	3.0	5.0	4.2%	228.0	
22	1	839+20.00	Lt.	17.0	1.7	17.0	4.0	3.0	5.0	3.7%	260.6	
22	1	839+60.00	Lt.	17.0	1.7	17.0	4.0	3.0	5.0	3.0%	325.7	
											13939.2	
23	1	842+90.00	Rt.	17.0	1.7	17.0	4.0	3.0	5.0	-0.4%	162.8	
23	1	843+90.00	Rt.	17.0	1.7	17.0	4.0	3.0	5.0	-0.8%	1009.7	
23	1	844+50.00	Rt.	17.0	1.7	17.0	4.0	3.0	5.0	-2.2%	390.8	
23	1	845+00.00	Rt.	17.0	1.7	17.0	4.0	3.0	5.0	-2.6%	325.7	
23	1	846+15.00	Rt.	17.0	1.7	17.0	4.0	3.0	5.0	-3.9%	260.6	
23	1	846+50.00	Rt.	17.0	1.7	17.0	4.0	3.0	5.0	-4.3%	228.0	
23	1	846+85.00	Rt.	17.0	1.7	17.0	4.0	3.0	5.0	-4.3%	228.0	
23	1	847+20.00	Rt.	17.0	1.7	17.0	4.0	3.0	5.0	-4.2%	228.0	
23	1	847+60.00	Rt.	17.0	1.7	17.0	4.0	3.0	5.0	-3.9%	260.6	
23	1	848+00.00	Rt.	17.0	1.7	17.0	4.0	3.0	5.0	-4.0%	260.6	
23	1	848+40.00	Rt.	17.0	1.7	17.0	4.0	3.0	5.0	-4.0%	260.6	
23	1	848+75.00	Rt.	17.0	1.7	17.0	4.0	3.0	5.0	-4.3%	228.0	
23	1	849+05.00	Rt.	17.0	1.7	17.0	4.0	3.0	5.0	-5.1%	195.4	
23	1	849+35.00	Rt.	17.0	1.7	17.0	4.0	3.0	5.0	-5.1%	195.4	
23</												

SILT FENCES FOR DITCH CHECKS

Possible Standard: EC-201 Possible Detail: 570-4



* The functional height used in the volume equation is 85% of effective height. Effective height is 1.58 feet as shown on EC-201.
* Volume equation: $[0.5 * \text{Spacing} * (0.5 * H^2 * FS + DW * H + 0.5 * H^2 * BS)]$

Basin No.	Type	Location		Bid Items			Stormwater Storage Volume Summary					Remarks	
		Station	Side	Installation LF	Maintenance LF	Removal LF	Foreslope FS:1	Backslope BS:1	Ditch Width FT	Avg. % Slope	Volume* CF		
23	1	846+35.00	Lt.	20.0	2.0	20.0	6.0	3.0	5.0	-3.9%	296.6		
23	1	846+70.00	Lt.	20.0	2.0	20.0	6.0	3.0	5.0	-4.3%	259.5		
23	1	847+05.00	Lt.	20.0	2.0	20.0	6.0	3.0	5.0	-4.2%	259.5		
23	1	847+40.00	Lt.	20.0	2.0	20.0	6.0	3.0	5.0	-4.2%	259.5		
23	1	847+80.00	Lt.	20.0	2.0	20.0	6.0	3.0	5.0	-3.9%	296.6		
23	1	848+20.00	Lt.	20.0	2.0	20.0	6.0	3.0	5.0	-4.0%	296.6		
23	4	848+55.00	Lt.	20.0	2.0	20.0	6.0	3.0	5.0	-4.3%	259.5	Left in	
23	4	848+90.00	Lt.	20.0	2.0	20.0	6.0	3.0	5.0	-4.3%	259.5	Left in	
23	4	849+20.00	Lt.	20.0	2.0	20.0	6.0	3.0	5.0	-5.1%	222.5	Left in	
23	4	849+50.00	Lt.	20.0	2.0	20.0	6.0	3.0	5.0	-5.5%	222.5	Left in	
23	4	850+35.00	Lt.	20.0	2.0	20.0	6.0	3.0	5.0	-5.4%	74.2	Left in	
23	4	850+65.00	Lt.	20.0	2.0	20.0	6.0	3.0	5.0	-5.5%	222.5	Left in	
23	4	850+95.00	Lt.	20.0	2.0	20.0	6.0	3.0	5.0	-5.5%	222.5	Left in	
23	1	851+25.00	Lt.	17.0	1.7	17.0	4.0	3.0	5.0	-5.5%	195.4		
23	1	851+50.00	Lt.	17.0	1.7	17.0	4.0	3.0	5.0	-5.6%	162.8		
23	1	854+60.00	Lt.	17.0	1.7	17.0	4.0	3.0	5.0	-6.3%	162.8		
23	1	854+85.00	Lt.	17.0	1.7	17.0	4.0	3.0	5.0	-6.3%	162.8		
23	1	855+10.00	Lt.	17.0	1.7	17.0	4.0	3.0	5.0	-6.1%	162.8		
23	1	855+35.00	Lt.	17.0	1.7	17.0	4.0	3.0	5.0	-6.1%	162.8		
23	1	855+60.00	Lt.	17.0	1.7	17.0	4.0	3.0	5.0	-6.2%	162.8		
23	1	855+85.00	Lt.	17.0	1.7	17.0	4.0	3.0	5.0	-6.2%	162.8		
23	1	856+10.00	Lt.	17.0	1.7	17.0	4.0	3.0	5.0	-6.2%	162.8		
											16005.1		
Ditch Check Total				3193.0									
Ditch Check Bid Tot				4789.5	100% Of Total								
Maintenance Total				479.0	10% of Bid Total								
Removal Total				4789.5	100% Bid Total								

PERIMETER AND SLOPE SEDIMENT CONTROL DEVICE

Possible Standards: EC-204

Location			Length of Installation			Remarks
Begin Station	End Station	Side	9 inch Dia LF	12 inch Dia LF	20 inch Dia LF	
697+55.00	707+45.00	Rt.		990.0		Drainage Basin #12 at Midway North Parking Lot (Strm. Swr.)