



PROPOSED HYDROLOGY CALCULATION SUMMARY

Basin	Total Area	La	and Trea	tement (%	6)	Q ₁₀₀	V _{100yr-6hr}	V _{100yr-24hr}	V _{100yr-4day}	V _{100yr}
	(acres)	А	В	С	D	(cfs)	(ac-ft)	(ac-ft)	(ac-ft)	(ac
200	0.244	0.0	0.0	100.0	0.0	0.7	0.021	0.021	0.021	0.0
201	2.247	0.0	90.0	5.0	5.0	5.6	0.166	0.169	0.173	0.1
202	0.949	0.0	5.0	15.0	80.0	3.8	0.163	0.182	0.205	0.2
203	0.906	0.0	0.0	100.0	0.0	2.8	0.078	0.078	0.078	0.0
204	0.252	0.0	0.0	100.0	0.0	0.8	0.022	0.022	0.022	0.0

PROPOSED 100_{YR}-10_{DAY} VOLUME INTO NEW POND

=0.207 + 0.048 + 1.427 + 0.969 + 0.207 + 0.179 + 0.247 + 0.078

<u>=3.362 AC-FT</u> <u> PROPOSED HYDROLOGY SUMMARY</u>

Storm Sewer Tabulation

Station		Len	Drng Area		Rnoff coeff	Area x C		Тс		Rain	Total flow	Cap full	Vel	Pipe		Invert Elev		HGL	
	Line	To Line]	Incr	Total		Incr	Total Inlet Sys	Syst	(1)	now	Tun		Size	Slope	Dn	Up	Dn	
		Line	(ft)	(ac)	(ac)	(C)			(min)	(min)	(in/hr)	(cfs)	(cfs)	(ft/s)	(in)	(%)	(ft)	(ft)	(ft)
	1 2	End 1	125.800 89.248		0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.0 0.0	0.4 0.0	0.0 0.0	3.30 3.30	25.30 54.49	3.01 3.64	18 24	5.80 5.80	4971.50 4978.80	4978.80 4983.98	4973. 4979.
		<u>S</u> 1		<u>8</u> M	SE	WE	R	TA	BU	LA ⁻	<u>TIO</u>	<u>N–</u>	ST	<u> </u>	M	<u>DR</u>	<u>AIN</u>	EX	TE

Storm Sewer Tabulation

Station	Len	Drng Area		Rnoff	Area x C		Тс		Rain	Total flow	Cap full	Vel	Pipe		Invert Elev		HGL E	
Line	To Line		Incr	Total	coen	Incr	Total	Inlet	Syst					Size	Slope	Dn	Up	Dn
		(ft)	(ac)	(ac)	(C)			(min)	(min)	(in/hr)	(cfs)	(cfs)	(ft/s)	(in)	(%)	(ft)	(ft)	(ft)
1	End	9.929	0.00	0.00	0.00	0.00	0.00	0.0	0.6	0.0	44.50	44.27	14.19	24	3.83	4977.82	4978.20	4979.8
2 3	1 2	119.000 272.000		0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.0 0.0	0.4 0.0	0.0 0.0	44.50 34.00	44.18 38.91	14.17 10.82	24 24	3.82 2.96	4978.20 4982.84	4982.74 4990.89	4980.6 4987.8
	νS'	ŤOF	RM	SE	WE	R	TA	BU	LA	ΤIΟ	N–	ST	OR	M	DR	AIN	EX	TE

DRAINAGE REPORT Introduction

the temporary regional retention pond's footprint and provide the volume required to retain the 100-year, 10-day volume.

Methodology

Hydrologic procedures presented in the Hydrology Section of the DMP, Section 22.2, revised April 7, 1993 were followed.

Existing Condition

Proposed Condition

required for this site, since there is approximately zero impervious area. Hydrologic and hydraulic analysis are included on this sheet.

Conclusion

Goodwin & Associates. By reducing the pond's footprint Lot 2A-1 will add 50 parking spaces which will be used by Lot 2-B.