

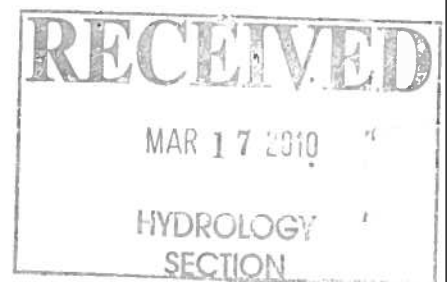
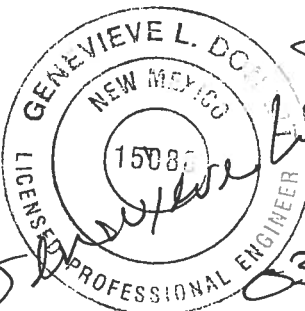
MARCH 17, 2010

SUPPLEMENTAL INFORMATION

FOR

CHANTILLY PARK

BY



CALCULATIONS: Chantilly Park :

Based on Drainage Design Criteria for City of Albuquerque Section 22.2, DPM, Vol 2, dated Jan., 1993

ON-SITE

AREA OF SITE: 34379.25 SF = 0.8
100-year, 6-hour

HISTORIC FLOWS:**DEVELOPED FLOWS:****EXCESS PRECIP:**

	Treatment SF	%		Treatment SF	%	Precip. Zone	1
Area A =	0	0%	Area A =	0	0%	$E_A = 0.44$	
Area B =	0	0%	Area B =	0	0%	$E_B = 0.67$	
Area C =	34379.25	100%	Area C =	27345	80%	$E_C = 0.99$	
Area D =	0	0%	Area D =	7034	20%	$E_D = 1.97$	
Total Area =	34379.25	100%	Total Area =	34379.25	100%		

On-Site Weighted Excess Precipitation (100-Year, 6-Hour Storm)

$$\text{Weighted E} = \frac{E_A A_A + E_B A_B + E_C A_C + E_D A_D}{A_A + A_B + A_C + A_D}$$

Historic E	=	0.99 in.	Developed E	=	1.19 in.
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On-Site Volume of Runoff: $V_{360} = E \cdot A / 12$

Historic V_{360}	=	2836 CF	Developed V_{360}	=	3411 CF
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On-Site Peak Discharge Rate: $Q_p = Q_{pA} A_A + Q_{pB} A_B + Q_{pC} A_C + Q_{pD} A_D / 43,560$

For Precipitation Zone 1

$Q_{pA} =$	1.29	$Q_{pC} =$	2.87
$Q_{pB} =$	2.03	$Q_{pD} =$	4.37

Historic Q_p	=	2.3 CFS	Developed Q_p	=	2.5 CFS
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The overall site consists of 0.789238980716253 acre(s) located in Zone 1 which is designated as properties D. The 100-year, 6-hour historic discharge is 2.3 cfs. The proposed developed discharge is 2.5 cfs.

