

Martin J. Chávez, Mayor

October 16,1997

Jackie McDowell McDowell Engineering Inc. 7820 Beverly Hills Ave. NE Albuquerque, New Mexico 87122

RE: REVISED DRAINAGE PLAN FOR HERNANDEZ BUILDING (K10-D32B) ENGINEER'S STAMP DATED 5/30/97

Dear Ms. McDowell:

Based on the information provided on your June 4,1997 and September 23,1997 submittals, the above referenced site is approved for Building Permit.

Please attach a copy of this approved plan to the construction sets prior to sign-off by Hydrology.

Also, any development which drains into the NMSHD R/W will require that they review the concept also. I have spoken to Raymunda Van Hoven from the NMSHD Hydrology section and have advised her that the amount that is being released into their R/W is held to the historic rate. She indicated that any further development would require their approval.

Please be advised that prior to Certificate of Occupancy release, Engineer Certification will be required.

If I can be of further assistance, please feel free to contact me at 924-3986.

C: Andrew Garcia

File

Sincerely

Bernie J. Montoya CE Associate Engineer



Project: HERNANDEZ ON-SITE CALCULATIONS

27-May-97

Calculations: Total Basin

Calculations are based on "Section 22.2 Hydrology of the

Development Process Manual, Volume 2, Design Criteria for the

City of Albuquerque, New Mexico, January 1993 - basins < 40 acres".

Precipitation Zone = 1

Depth at 100-year, 6-hour storm: (Table A-2)

P =

2.20 inches

Land Treatments:

From Table 5 - Percent Treatment D

Single Family Residential =

7*SQR((N*N) + (5*N))

where N = units/acre

N = -----, ok < 6

N =

0.00

Therefore Percent Treatment D =

0.00%

(includes local streets)

Areas: (acres)		
	Existing	Proposed
Treatment A	2.45	1.94
Treatment B	0.00	0.05
Treatment C	0.00	0.12
Treatment D	0.00	0.34
Total (acres) =	2.45	2.45

Volume	100 year	100 year	10 year	10 year	2 year	2 year
	Existing	Proposed	Existing	Proposed	Existing	Proposed
Volume (acre-feet) =	0.09	0.14	0.02	0.05	0.00	0.02
Volume (cubic feet) =	3,913	6,083	711	2,325	0	943

VOL. TO POND = 2170 Cu.ft.

Total Q(p), cfs:						
	100 year	100 year	10 year	10 year	2 year	2 year
	Existing	Proposed	Existing	Proposed	Existing	Proposed
	Q(p)*A	Q(p)*A	Q(p)*A	Q(p)*A	Q(p)*A	Q(p)*A
Treatment A	3.16	2.50	0.59	0.47	0.00	0.00
Treatment B	0.00	0.10	0.00	0.04	0.00	0.00
Treatment C	0.00	0.34	0.00	0.18	0.00	0.06
Treatment D	0.00	1.49	0.00	0.98	0.00	0.57
Total Q (cfs) =	3.16	4.43	0.59	1.67	0.00	0.63

VOLUME PROVIDED = 52520 CU.Jt.



McDowell Engineering, Inc.

7200 Valley Forge Pl. NE Albuquerque, New Mexico 87 Tele: (505)828-2430

87109

Project: HERNANDEZ POOLS DEV.

Project No.: HERDA97L Date: 5-27-97

Subject: RETENTION POND CALCS

By: Sheet 1 of 1

		By: US	21166		
POND V	OLUME:				
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