



# City of Albuquerque

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

December 13, 1994

Dan Aguirre, P.E.  
Wilson & Company  
4775 Indian School NE Suite 200  
Albuquerque, N.M. 87110

RE: REV. GRADING & DRAINAGE PLAN FOR APS SEVEN BAR LOOP ~~(B-13/D11)~~ *A13/D14*  
RECEIVED DECEMBER 13, 1994 FOR GRADING PERMIT APPROVAL  
ENGINEER'S STAMP DATED 12-13-94

Dear Mr. Aguirre:

Based on the information included in the submittal referenced above, City Hydrology approves a Grading Permit for this project.

Engineer's Certification of grading & drainage, per DPM checklist is required for this project. Include calculations of the as-built volume provided in the Certification.

If you have any questions about this project, You may contact me at 768-2727.

Sincerely,

John P. Curtin, P.E.  
Civil Engineer/Hydrology

c: Andrew Garcia



# City of Albuquerque

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

December 12, 1994

Dan Aguirre, P.E.  
Wilson & Company  
4775 Indian School NE Suite 200  
Albuquerque, N.M. 87110

RE: GRADING & DRAINAGE PLAN FOR APS SEVEN BAR LOOP *A13/D14*  
~~(B-13/D14)~~  
RECEIVED NOVEMBER 28, 1994 FOR GRADING PERMIT APPROVAL  
ENGINEER'S STAMP DATED 11-23-94

Dear Mr. Aguirre:

Based on the information included in the submittal referenced above, City Hydrology approves a Grading Permit for this project.

Engineer's Certification of grading & drainage, per DPM checklist is required for this project. Include calculations of the as-built volume provided in the Certification.

If you have any questions about this project, You may contact me at 768-2727.

Sincerely,

John P. Curtin, P.E.  
Civil Engineer/Hydrology

c: Andrew Garcia

COMP

**WILSON  
& COMPANY**

LOC.

FILE

CK.

PROJ. Pond Calculations SHEET

DATE

11/22/94

SUBJ.

APS Seven Bar  
Loop School Site

$$43,560 \text{ ft}^2 = 1 \text{ acre}$$

$$V_{10\text{day}} = 0.58 \text{ ac-ft} = 25,265 \text{ ft}^3$$

$$\text{Area within exterior of pond} = (70' \times 130') = 9,100 \text{ ft}^2$$

$$\frac{25,265}{9,100} = 2.77$$

5' deep with 3:1 side slopes

$$\text{Bottom Area} = (130' - 30') \times (70' - 30') = 4,000 \text{ ft}^2$$

$$4000 \text{ ft}^2 \times 5 \text{ ft} = 20,000 \text{ ft}^3$$

$$(9100 - 4000) \left( \frac{5}{2} \right) = 12,750 \text{ ft}^3$$

32,750 ft<sup>3</sup> ✓ 30,000 cf  
Sufficient  
Capacity

$$\frac{25,265 \text{ ft}^3}{(4000 \text{ ft}^2) + \left( \frac{5100 \text{ ft}^2}{2} \right)} = \frac{25,265}{6550} = 3.86'$$

$$3.86' < 5', \text{ 1 ft. of freeboard}$$

$$69' + 3.86' = 72.86$$

$$E_{360} = \frac{4.25(0.99) + 0.81(1.97)}{5.06} = \frac{5.80''}{5.06} = 1.15''$$

$$I_{360} = \left( \frac{1.15}{12} \right) 5.06 = 0.483 \text{ Ac-ft}$$

$$V_{10\text{day}} = 0.48 + 0.81(3.67 - 2.20)/12 = 0.583 \text{ Ac-ft}$$

25,395 cf



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