

Printed May 5, 1998 (6:24PM)

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### RUNOFF CALCULATIONS - SIMPLIFIED PROCEDURE

By: Colette Hoffman

Date: 12-10-97

Project: Atrisco Elementary School

Zone Atlas: L-11-Z

This procedure is in accordance with the City of Albuquerque Development Process Manual, Volume 2, Section 22.2 "Hydrology", peak discharge rate for small watersheds less than forty acres in size.

Precipitation Zone from Figure A-1: 1

Land treatment descriptions are in Table A-4.

#### 1. RUNOFF RATE COMPUTATION

Use Equation a-10:  $Q_P = Q_{PA} A_A + Q_{PB} A_B + Q_{PC} A_C + Q_{PD} A_D$

Values of  $Q_p$  are from Table A-9, and are in CFS/acre. Area values are in acres.

| BASIN                          | $Q_{PA}$ | $A_A$ | $Q_{PB}$ | $A_B$ | $Q_{PC}$ | $A_C$ | $Q_{PD}$ | $A_D$ | $Q_P$ |
|--------------------------------|----------|-------|----------|-------|----------|-------|----------|-------|-------|
| EXISTING RATE OF RUNOFF (CFS)  |          |       |          |       |          |       |          |       |       |
| Basin A                        | 1.29     | 0.000 | 2.03     | 0.000 | 2.87     | 2.488 | 4.37     | 1.392 | 13.22 |
| Total                          |          |       |          |       |          |       |          |       | 13.22 |
| DEVELOPED RATE OF RUNOFF (CFS) |          |       |          |       |          |       |          |       |       |
| Basin A                        | 1.29     | 0.000 | 2.03     | 0.000 | 2.87     | 2.451 | 4.37     | 1.429 | 13.28 |
| Total                          |          |       |          |       |          |       |          |       | 13.28 |