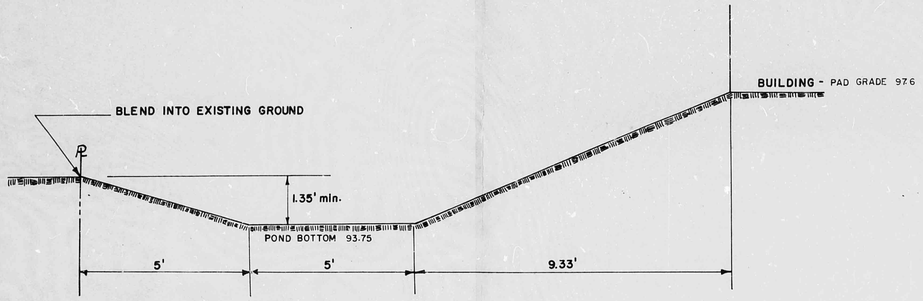
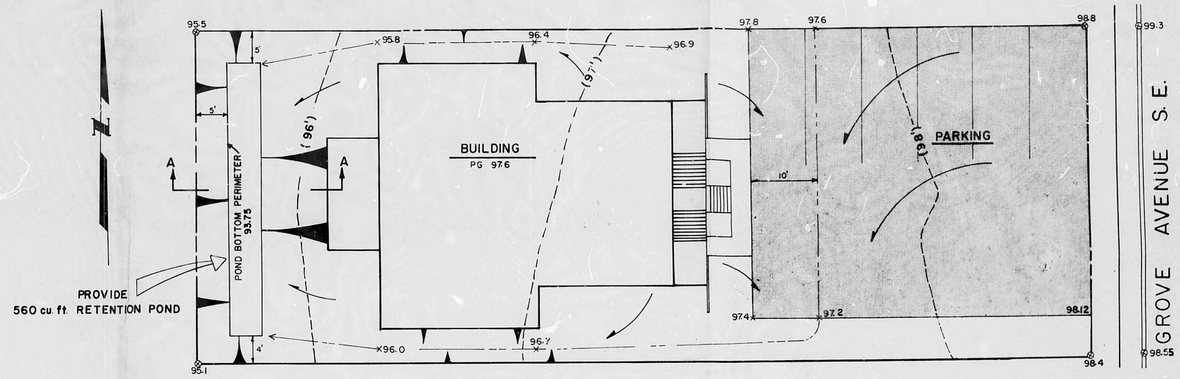
HYDROLOGY

L19/D31
ONE PLAN

L19/D31 (1)



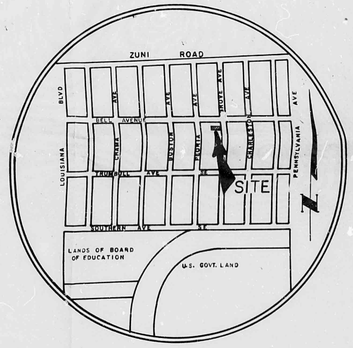
SECTION A
SCALE: 1" = 2'



SITE PLAN
1" = 10'

LEGEND

——→	PROPOSED SWALE LINE
--(96')--	EXISTING CONTOURS (Elevation based on arbitrary datum, curb return on Grove Avenue at SW corner Grove & Bell, el. 100.0)
⊗	SPOT ELEVATION (existing)
×	SPOT ELEVATION (proposed)
——→	FLOW LEADER



VICINITY MAP
0 100 200

CALCULATIONS

1) *Off-site drainage taken as negligible since vicinity drains from east to west, and Grove Street will intercept runoff from the east.*

2) *Composite Runoff Coefficient:*

Gross Area = 6750 S.F.
Area Building @ C = 0.95 = 1656 S.F.
Area Parking & walks @ C = 0.95 = 2510 S.F.
Area S.W. landscaping @ C = 0.65 = 1292 S.F.
Area lawn @ C = 0.30 = 1292 S.F.

$$C_{comp} = \frac{1656 + 2510}{6750}(.95) + \frac{1292}{6750}(.65) + \frac{1292}{6750}(.30) = 0.78$$

3) *Required Ponding*

$D = 2.6" = 0.22'$

$$V_{olume\ required} = (0.78-0.4)(0.22)(6750) = 560\ C.F.$$

4) *Volume of Pond*

$$Volume = \left[\frac{(1.35X3X2) + (2X5)}{2}\right](1.35)(45.5) = 556\ C.F.\ \ O.K.$$

THIS MICROIMAGE IS THE BEST POSSIBLE REPRODUCTION DUE TO THE POOR QUALITY OF THE ORIGINAL DOCUMENT

KENT M. WHITMAN
STATE OF NEW MEXICO
NO. 6174
REGISTERED PROFESSIONAL ENGINEER

Kent M. Whitman

DRAINAGE PLAN

FOR
DEE CORELY 4-PLEX
LOCATED ON
LOT 23, BLOCK 15
EMIL MANN ADDITION

DATE:	OCTOBER, '77
SCALE:	
DESIGNED:	KW
DRAWN:	BLH
JOB NO.:	