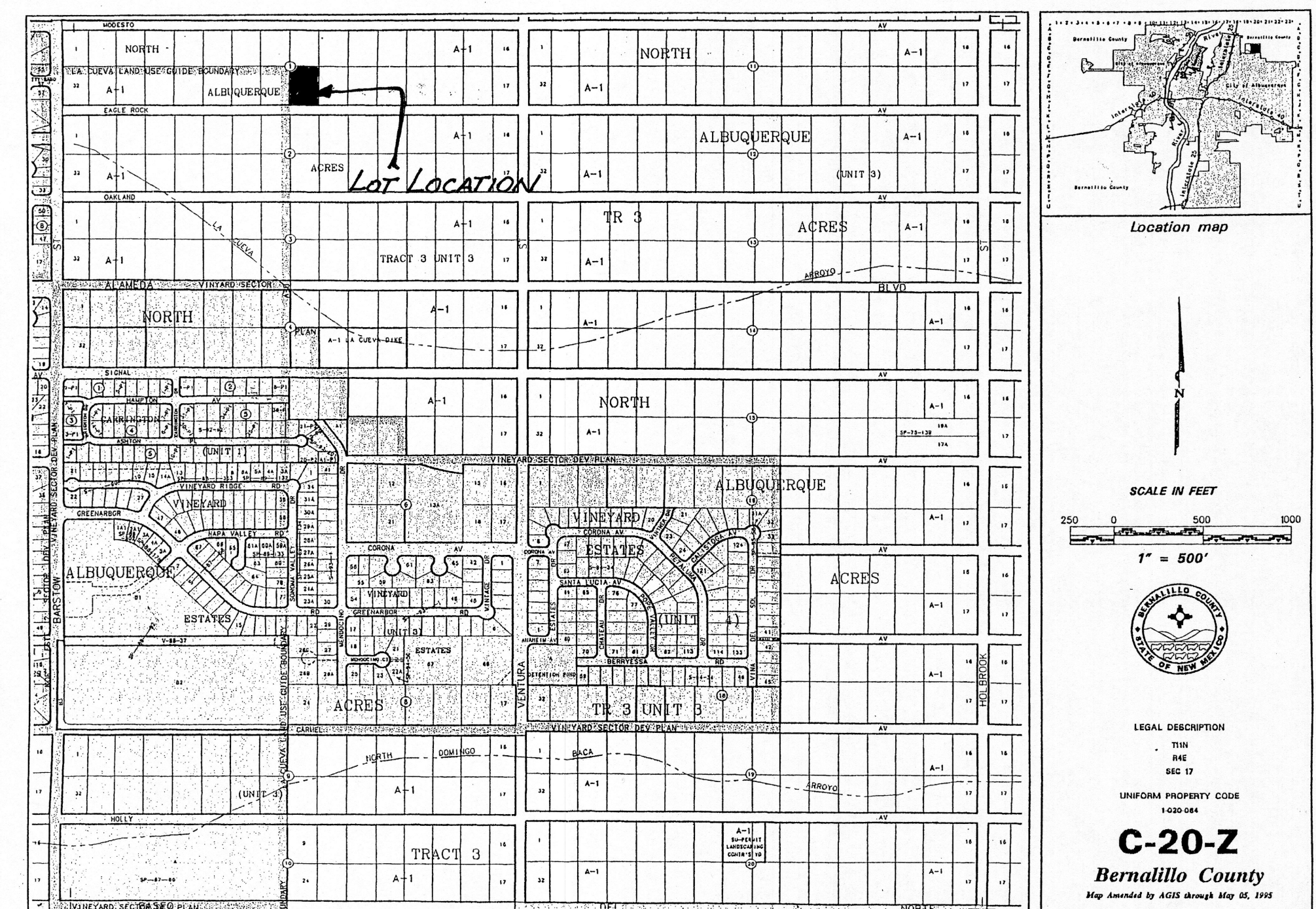


LEGEND

-- 20 -- EXISTING CONTOUR

— 20 — PROPOSED CONTOUR

— COURT YARD WALL



DRAINAGE CALCULATIONS - ZONE 3

On-Site Undeveloped Conditions

A = 0.88 acres 100 yr-6hr Storm 0.000000 10 yr-6hr Storm

P = 2.90" (100yr-6 hr) Q = 1.87(0.88) = 1.7 cfs Q = 0.58(0.88) = 0.5 cfs

Weighted "E" = 0.66" V = 0.66(0.88)(43560)/12 = 2103 cf V = 0.19(0.88)(43560)/12 = 607 cf

On-Site Developed Conditions (Max. Runoff)

Total area = 0.88 ac. = 38,333 sqft

Land treatment A = 16,483 sqft = 0.38 ac.

Land treatment B = 7,667 sqft = 0.18 ac.

Land treatment C = 7,667 sqft = 0.18 ac.

Land treatment D = 6,516 sqft = 0.15 ac.

Weighted "E" (100 yr) = ((0.66)16483 + (0.92)7667 + (1.29)7667 + (2.36)6516)/38333 = 1.1"

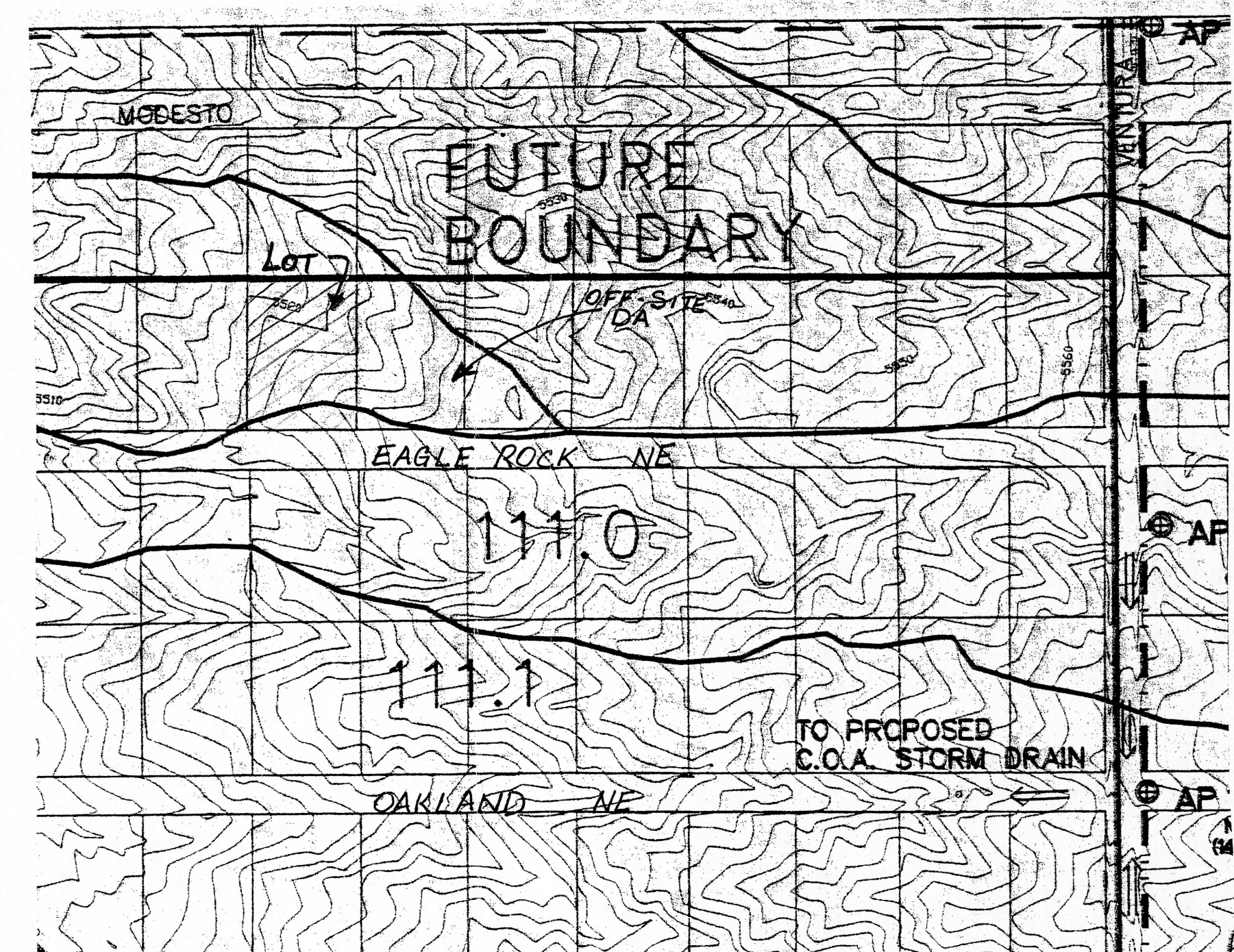
Weighted "E" (10 yr) = ((0.19)16483 + (0.36)7667 + (0.62)7667 + (1.5)6516)/38333 = 0.53"

Q (100-6) = 0.38(1.87) + 0.18(2.6) + 0.18(3.45) + 0.15(5.02) = 2.6 cfs

V (100-6) = 1.1(0.88)(43560)/12 = 3514 cf

Q (10-6) = 0.38(0.58) + 0.18(1.19) + 0.18(2.0) + 0.15(3.39) = 1.3 cfs

V (10-6) = 0.53(0.88)(43560)/12 = 1693 cf



NOTES

1. RESIDENCE DOES NOT LIE WITHIN THE FEMA FLOOD BOUNDARY.
2. ADD 5200.0 TO CONTOUR ELEVATIONS.
3. CONTOUR INTERVAL EQUALS 1.0 FOOT.
4. POSITIVE DRAINAGE FROM FOUNDATION.
5. DRAWING UTILIZED FOR THE LAYOUT OF PROPOSED RESIDENCE AS SHOWN.
6. DRAINAGE CALCULATIONS PREPARED IN ACCORDANCE WITH SECTIONS 22.2, HYDROLOGY, DEVELOPMENT PROCESS MANUAL, BERNALILLO COUNTY.
7. APPROXIMATE LOT SIZE IS 165 FT. x 234 FT.
8. RESIDENCE SET BACK ON LOT IS 61 FT. FROM SOUTH PROPERTY LINE TO SE CORNER AND 30 FT. FROM THE EAST PROPERTY LINE.
9. SEPTIC TANK/LEACH FIELD TO BE DESIGNED AND INSTALLED BY OTHERS.
10. NO WALLS WILL BE CONSTRUCTED ALONG THE PROPERTY BOUNDARY TO IMPACT FLOWS.
11. ONLY AREAS NEEDED FOR CONSTRUCTION WILL BE CLEARED AND GRUBBED. OTHER AREAS WILL REMAIN UNDISTURBED.
12. DISTURBED AREAS WILL BE REVEGETATED/LANDSCAPED IN ACCORDANCE WITH BERNALILLO COUNTY ZONING REQUIREMENTS.

ENGINEER'S STATEMENT

I, hereby, state that I have personally inspected the land represented by this plan and I certify that the contours shown on this plan substantially reflect the conditions of the site and that no grading, excavation, or filling has occurred since this plan was prepared.

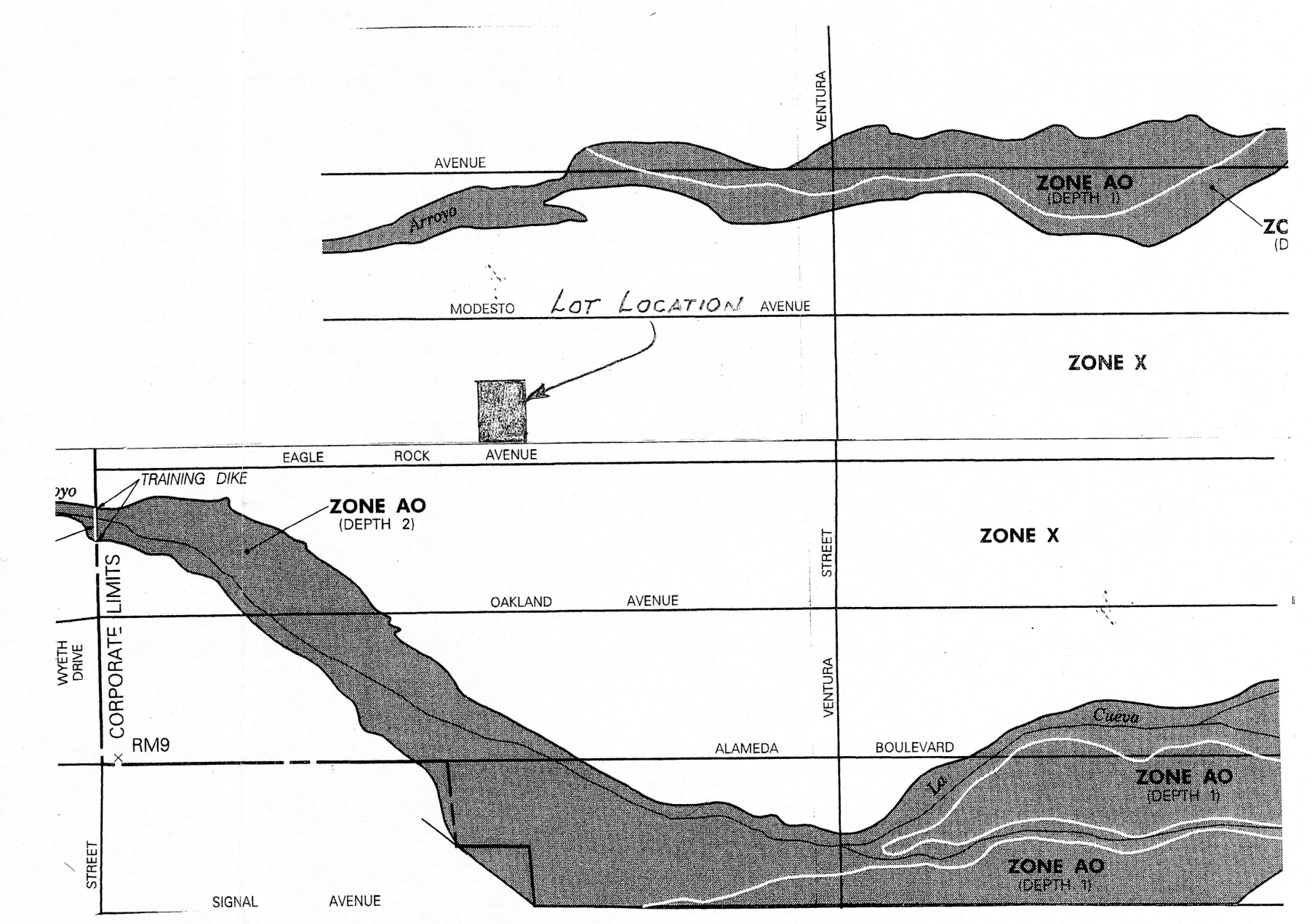
Bernard R. Freeman 6/8/01
(Bernard R. Freeman, NMPE 8795)

BENCHMARK

THE TEMPORARY BENCHMARK IS A #4 REBAR LOCATED AT THE NORTHEAST CORNER OF LOT.
ELEVATION = 5523.60

LEGAL DESCRIPTION

NORTH ALBUQUERQUE ACRES, LOT 24, BLOCK 1, UNIT 3, TRACT 3
ZONE ATLAS D-20-Z



OFF-SITE DRAINAGE BASIN
SCALE: 1"=200'

DA = 1.1 AC.
Qp = 2.86 cfs/ac

∴ Q = 3.1 cfs
(No EASEMENT)
PROPOSED

RECEIVED
JUN 11 2001
HYDROLOGY SECTION

BRIAN & CATHY COLVIN RESIDENCE		
SCALE:	APPROVED BY: <i>BERNARD R. FREEMAN</i>	DRAWN BY: BRF
DATE: 1/3/01		REVISED
Lot 24, BLK 1, TR 3, U 3		
		DRAWING NUMBER 1/1