

LOT 12 - UNDEVELOPED

LOT 14 - DEVELOPED

SITE MAP LEGEND

- 45 — PROPOSED CONTOUR
- - - 45 - - - EXISTING CONTOUR
- • — ARROYO CENTERLINE

SCALE: 1" = 20'

$$\frac{55.44}{11} = \frac{1}{11} = 2.54731$$

DRAINAGE CALCULATIONS: ZONE 3

UNDEVELOPED CONDITIONS			
AREA =	0.88 acres	P(100-6) =	2.6 inches
WEIGHTED "E" (100) =	0.66 inches	WEIGHTED "E" (10) =	0.19 inches
Therefore:			
Q(100) =	1.65 cfs	Q(10) =	0.51 cfs
Volume(100) =	2108 cf	Volume(10) =	607 cf

DEVELOPED CONDITIONS (MAX. RUNOFF CONDITIONS per BCPW)			
	Acres	Sq. Ft.	
TOTAL AREA (ac) =	0.88	38,333	
Treatment A	0.38	16,482	Treatment C 0.18 7,667
Treatment B	0.18	7,667	Treatment D 0.15 6,517

Weighted E (100) =	1.13 inches	Weighted E (10) =	0.53 inches
Q (100) =	2.5 cfs	Q (10) =	1.3 cfs
Volume (100) =	3600 cf	Volume (10) =	1702 cf

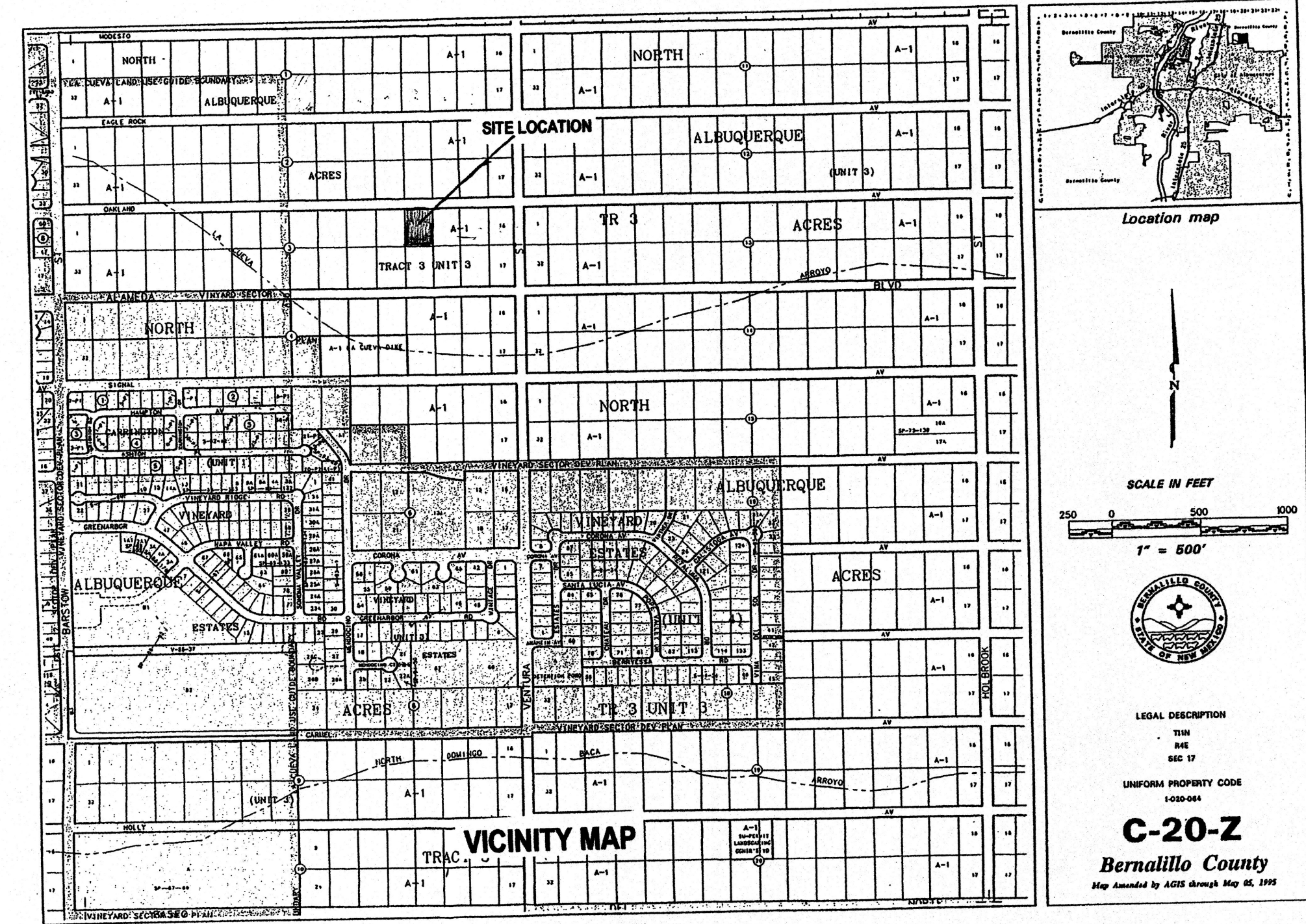
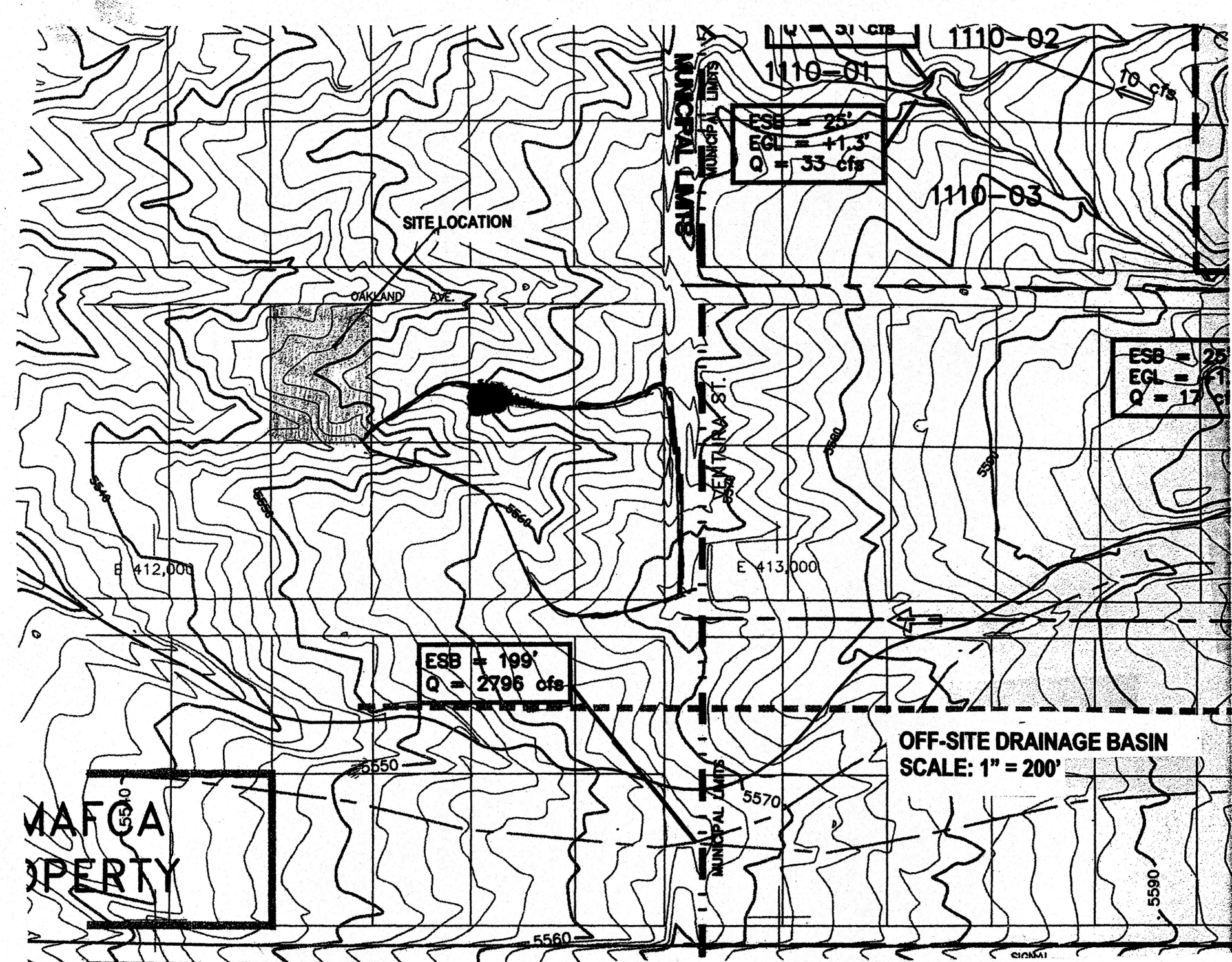
PROPOSED CONDITIONS (ACTUAL RUNOFF CONDITIONS)			
	Acres	Sq. Ft.	
TOTAL AREA (ac) =	0.88	38,333	
Treatment A	0.52	22,573	Treatment C 0.10 4,200
Treatment B	0.16	7,000	Treatment D 0.10 4,560

Weighted E (100) =	0.98 inches	Weighted E (10) =	0.42 inches
Q (100) =	2.2 cfs	Q (10) =	1.0 cfs
Volume (100) =	3126 cf	Volume (10) =	1354 cf

Actual runoff is LESS THAN the maximum allowable: PONDING IS NOT REQUIRED.

OFF SITE DRAINAGE AREA CALCULATIONS		
Drainage Area #1	DA (acres)	Discharge
Q _p = 2.88 CFS	3.00	8.58

hooked plot -
no runoff easement
on Arroyo



NOTES:

1. PROPOSED STRUCTURE AND PARKING AREA DOES NOT LIE WITHIN THE FEMA FLOODPLAIN.
2. ADD 5500 TO SPOT ELEVATIONS.
3. CONTOUR INTERVAL EQUALS 1.0 FT.
4. POSITIVE DRAINAGE FROM FOUNDATION.
5. DRAWING UTILIZED FROM THE LAYOUT OF PROPOSED RESIDENCE AS SHOWN.
6. DRAINAGE CALCULATIONS PREPARED IN ACCORDANCE WITH SECTIONS 22.2, HYDROLOGY DEVELOPMENT MANUAL, CITY OF ALBUQUERQUE.
7. PROPOSED ADDITION IS SET-BACK ON LOT 50 FT. FROM NORTH PROPERTY LINE AND 20 FT. WEST OF EAST PROPERTY LINE.
8. DISTURBED AREAS WILL BE VEGETATED/LANDSCAPED IN ACCORDANCE WITH THE CITY OF ALBUQUERQUE ZONING REQUIREMENTS.
9. SEWAGE AND WATER SYSTEM VIA WELL AND SEPTIC SYSTEM.
10. LOT SIZE IS 165 FT. BY 234 FT.

ENGINEER'S STATEMENT

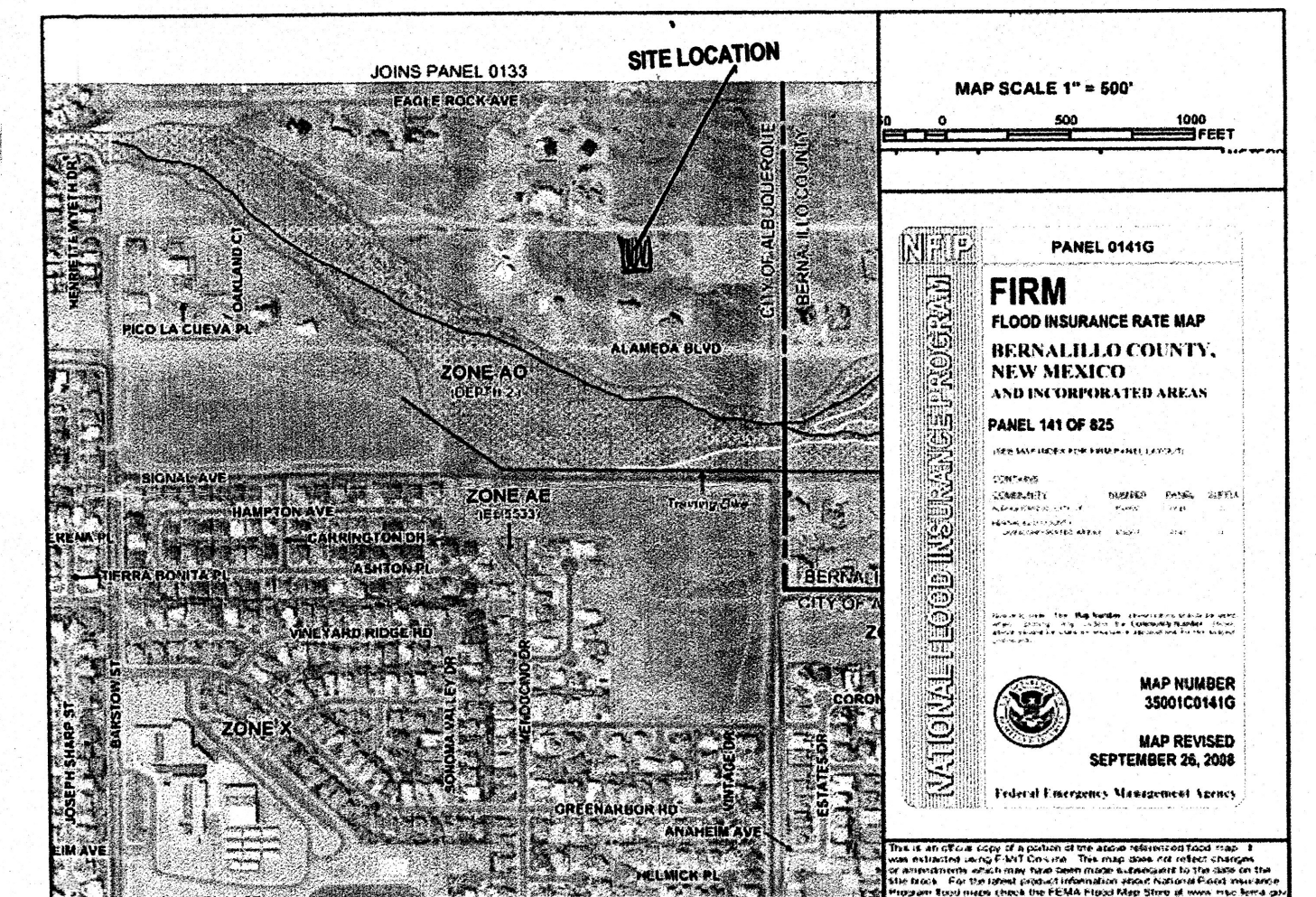
I, hereby, state that I have personally inspected the land represented by this plan and I certify the contours shown on this plan substantially reflect the conditions of the site.

Bernard R. Freeman 10/27/08
(Bernard R. Freeman, NMPE 8795)

LEGAL DESCRIPTION:

LOT 13, BLOCK 3, UNIT 3, TRACT 3

TBM LOCATED AT NORTHWEST LOT w/ #4 REBAR
ELEVATION = 5546.10



Bernard R. Freeman
10/27/08

8950 OAKLAND NE
RESIDENTIAL G & D
PLAN REVISION PREPARED BY:
BERNARD R. FREEMAN, PE

RECEIVED
OCT 27 2008
HYDROLOGY
SECTION