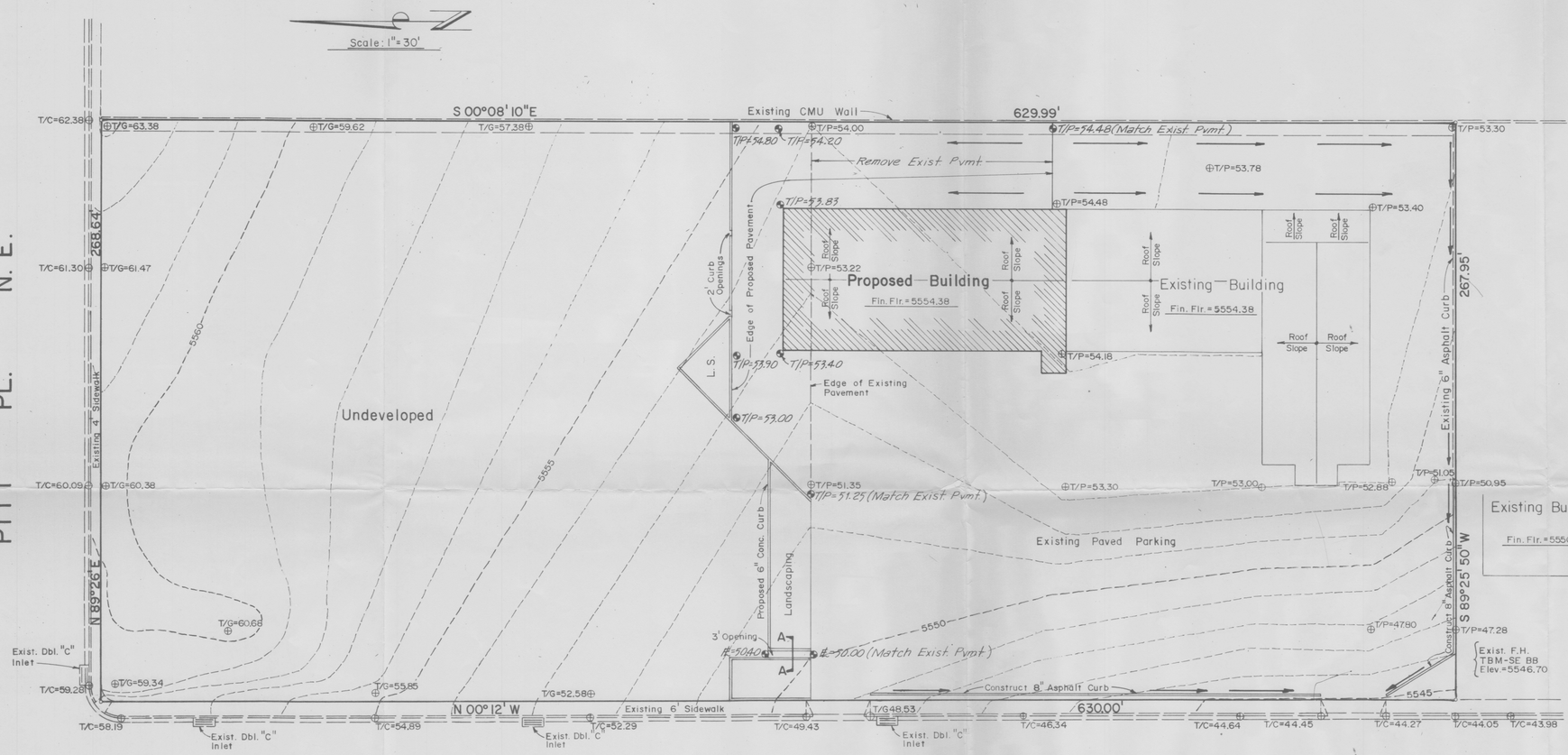
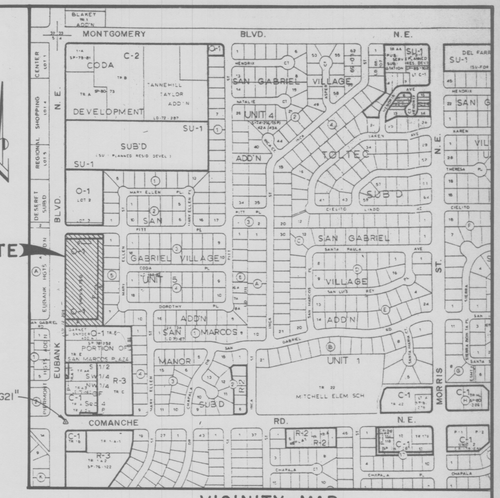
DRAINAGE PLAN

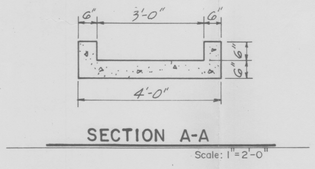
A 3.880 ACRE TRACT OF LAND
SITUATE IN THE NORTH HALF, SOUTHWEST QUARTER NORTHWEST QUARTERSECTION 4, T10N, R4E, NMPM
ALBUQUERQUE, NEW MEXICO

ZONE MAP G-21 BENCHMARK "9-G21" ELEV.=5536.00
FLOOD MAP 25 SOIL TYPE "B"
FILE G21/ APPROVED _____





VICINITY MAP
Scale: 1"=500'



SECTION A-A
Scale: 1"=2'-0"

LEGEND

*Property line	PL
Existing contours	4930
Proposed contours	4925
Flow direction	
Existing spot elevations	⊕
Proposed spot elevations	⊕
Top of ground	T/G
Top of pavement	T/P
Top of concrete	T/Conc.
Top of curb	T/C
Flowline Gutter or swale	FL

* A property boundary survey was not performed in the preparation of this plan.

EROSION CONTROL NOTES

The contractor shall be responsible for compliance of the following:

1. No sediment bearing water shall be allowed to discharge from the site during construction.
2. During grading operations and until the project has been completed all adjacent property, rights of way and easements shall be protected from flooding.
3. Any and all sedimentation originating from the site which is deposited within public right of way shall be promptly removed by the contractor.
4. Control of sediment laden waters will be accomplished by use of a compacted earth berm of adequate height. The berm shall be located along the downstream perimeters of the property.

HYDROLOGY

100 yr - 6 hr rainfall = 2.45 in.

I = 2.45 X 2.3 = 5.6 in / hr

Area = 169,026 sf = 3.880 ac.

EXISTING:

Asphalt & Concrete	= 68,329 X 0.95	=	64,913
Roof	= 12,056 X 0.90	=	10,850
Undeveloped	= 88,640 X 0.40	=	35,456
	169,026		111,219

C = 111,219 / 169,026 = 0.66

Q = 0.66 X 5.6 X 3.880 = 14.3 cfs

CN = 85 Direct Run Off = 1.2 in

V = 1.2 / 12 X 169,026 = 16,903 cf

PROPOSED:

Asphalt & Concrete	= 64,430 X 0.95	=	61,209
Roof	= 20,888 X 0.90	=	18,799
Undeveloped	= 81,018 X 0.40	=	32,407
Landscape	= 2,690 X 0.25	=	672
	169,026		113,087

C = 113,087 / 169,026 = 0.67

Q = 0.67 X 5.6 X 3.880 = 14.6 cfs

CN = 85 Direct Run Off = 1.2 in

V = 1.2 / 12 X 169,026 = 16,903 cf

Undeveloped Area = 81,018 sf = 1.86 ac

Undeveloped Q = 0.40 X 5.6 X 1.86 = 4.2 cfs

Section A-A

A = 1.5 sf P = 4 ft R = 0.375 $R^{0.67}$ = 0.52

S = 0.02 $S^{0.5}$ = 0.14

Q = 1.5 X 1.486 / 0.013 X 0.52 X 0.14 = 12.5 cfs O.K.

CONCLUSION:

1. Flow and volume are not significantly changed by the proposed development.
2. Construction of asphalt curbs will direct the existing and proposed flows to the driveways.

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APR 19 1988
HYDROLOGY SECTION

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Drawn L.C.G.
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