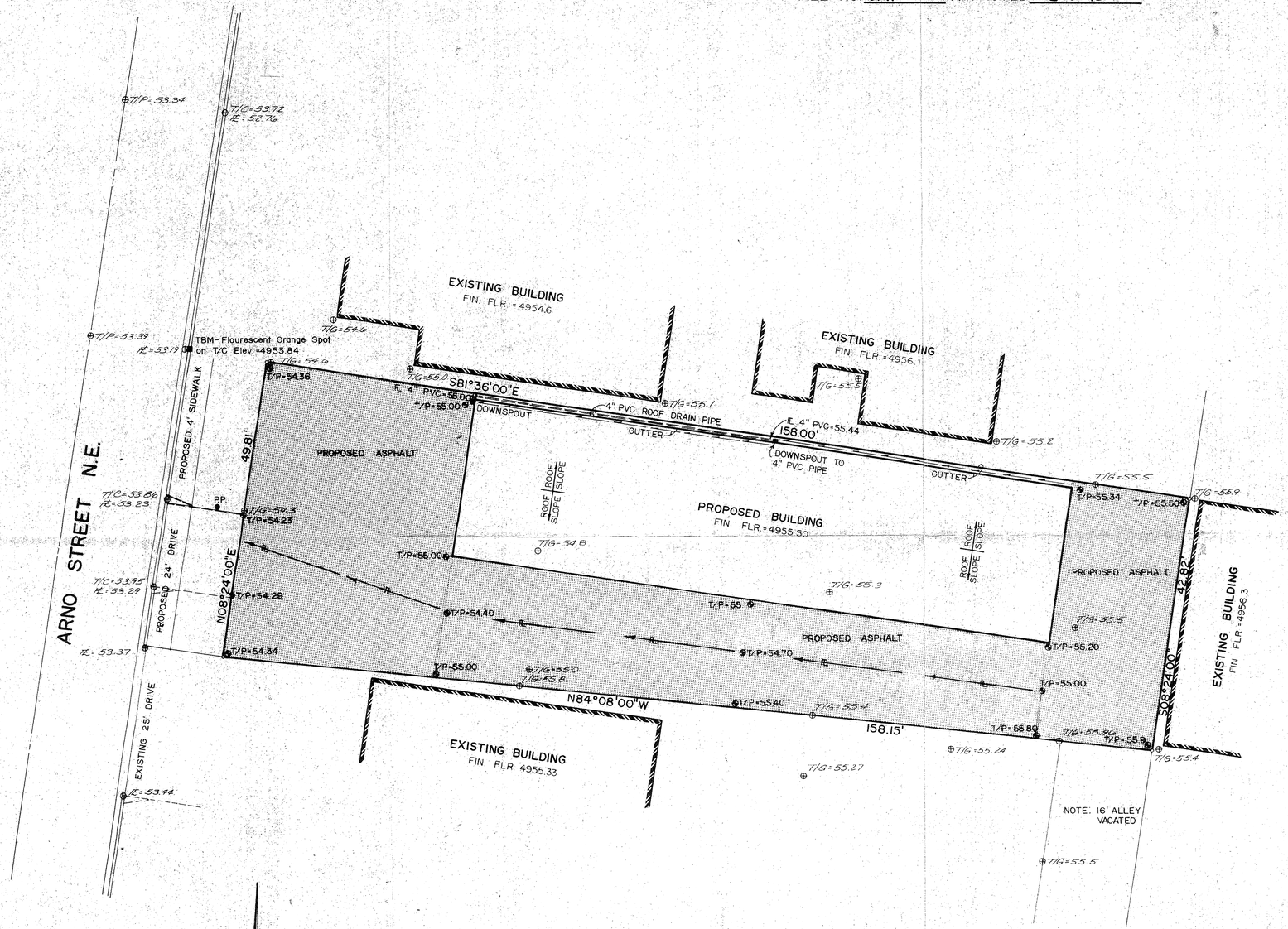
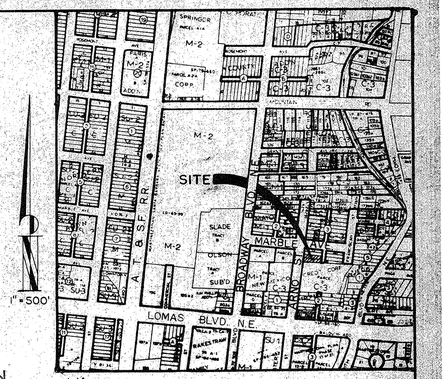
DRAINAGE PLAN

TRACT 15-A1, BLOCK 3, MAYO & ROSS ADDITION

ALBUQUERQUE, N.M.

ZONE MAP J-14 BENCHMARK 5-J15 ELEV.= 4967.34
FLOOD ZONE MAP NO. 28 SOIL TYPE A
FILE NO. J14/D 87 APPROVED 2-1-90





VICINITY MAP

HYDROLOGY APPROVAL & INSPECTION

APPROVED FOR BUILDING PERMIT
ENGINEER Barry Montoya DATE 3/21/90
INSPECTION REQUESTED DATE
APPROVAL DATE DISAPPROVED
5019 APPROVAL DATE
SURVEY DATE
HYDROLOGY BOOK NO./PAGE NO.
SURVEYED BY
COMMENTS

HYDROLOGY

100 yr - 6 hr = 2.2 in. I = 2.2 * 6.84 / 3.24 = 4.64 in / hr

Existing

Area = 7,318 sf = 0.168 ac

100 % natural ground. C = 0.45

Q = 0.45 * 4.64 * 0.168 = 0.35 cfs

CN = 65 Direct run off = 0.20 in

V = 0.20 / 12 * 7,318 = 122 cf

Site presently drains to Arno St. N.E.

Proposed

Roof = 2,754 * 0.90 = 2,479
Asphalt = 4,564 * 0.95 = 4,336
7,318 6,815

C = 6,815 / 7,318 = 0.93

Q = 0.93 * 4.64 * 0.168 = 0.72 cfs

CN = 95 Direct Run Off = 1.7 in

V = 1.7 / 12 * 7,318 = 1,037 cf

Site will drain through proposed driveway to Arno St. N.E.

Check capacity of 4" roof drain pipe.

A = 1,377 sf = 0.032 ac For roof, C = 0.90.

Q = 0.90 * 4.64 * 0.032 = 0.13 cfs

4" pipe @ S = 0.005 $S^{0.5} = 0.07$

A = 0.087 P = 1.05 R = 0.083 $R^{0.667} = 0.19$

Q = 0.087 * 1.486 / 0.013 * 0.19 * 0.07 = 0.13 - OK

Conclusions

The tract is located within an infill area. The increase in peak flow of 0.37 cfs and the increase in volume of 915 cf is minor compared the basin that the site is in.

LEGEND

*Property line	
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	IL

*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 [illegible] shall be located along the downstream perimeter [illegible] property.

1/24/90

REVISED 3/21/90

RECEIVED
MAR 21 1990
HYDROLOGY DIVISION

LOUIS GROSS & ASSOC., INC.
Consulting Civil Engineers
925 6th Street N.W. Suite 3
Albuquerque, N.Mex. 87102
(505) 243-6353

File Nº 510
Date JAN. 1990
Drawn C.L.L.
Sheet 1 of