

A. BASIC ASSUMPTIONS

- Discharge from the proposed subdivision will drain free discharge, sheet flow, into the Pino Arroyo. There will be no discharge to Forest Hills Dr. and no increase to the discharge amount at the intersection of San Pedro Blvd. and Forest Hills Dr. as a result of this development.
- This subdivision comprises one drainage basin (on-site) and a second basin (off-site).
- No other off-site flows will be accepted onto this site.

B. CONTRIBUTING AREAS

- Basin "A" (On-Site)
 - a) Total Area = 15,232 S.F.
 - b) Paved Area = 1,600 S.F.
 - c) Roof Area = 3,600 S.F.
 - d) Lawn & Landscaping = 10,032 S.F.
- Basin "B" (Off-Site)
 - Forest Hills Dr., previously addressed in the approved drainage report for Tract B, Unit 16, Academy Acres.
 - $Q = 8.51 \text{ cfs}$

C. RUNOFF COEFFICIENTS (COMPOSITE C)

- Basin "A" =

1,600	0.95	+	3,600		10,032	0.33
15,232			15,232		15,232	

D. TIME OF CONCENTRATION (T_c)

- Basin "A" = L = 110 S = 4.01% T_c = 6.00 Min
- Basin "A" (undeveloped) = L = 110 S = 1.70% T_c = 1.41 Min

E. RAINFALL INTENSITY (I)

- Rainfall Volume 2.3" (100 Yr. Freq.) Plate 22.2 D-
 - a) Basin "A" = $I = 2.3 \times 6.84 \times 1.00^{0.28} = 1 = 15.73$
 - b) Basin "A" (undeveloped) = $I = 2.3 \times 6.84 \times 1.41^{0.28} = 1 = 13.22$

F. PEAKFLOW RUNOFF (Q = C/A)

- Basin "A"
 - $Q = 0.53 \times 15.73 \times 0.35 = 2.92 \text{ CFS}$ (Use 3 CFS)
- Basin "B"
 - $Q = 0.80 \times 6.20 \times 1.31 = 8.51 \text{ CFS}$ (As approved in drainage report for the Replat of Tract B, Unit 16, Academy Acres.)
- Basin "A" (undeveloped)
 - $Q = 0.33 \times 13.22 \times 0.35 = 1.53 \text{ CFS}$

G. STREET FLOW CAPACITY (1/2 STREET WIDTH)

See previously referenced approved drainage report.

H. DRAINAGE CHANNEL

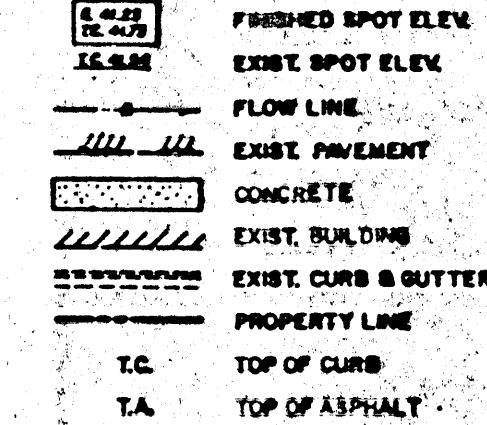
See previously referenced approved drainage report.

I. CONCLUSIONS

- The street capacity for the adjacent street will not be affected this subdivision.
- The off-site flows being accepted onto this subdivision in the 13.5' wide channel will not exceed 1' depth. This issue was addressed in the previously approved drainage report for the Replat of Tract B, Unit 16, Academy Acres. Finished floor elevations for residences within this development will not be jeopardized by high water levels resulting during the 100 year event.

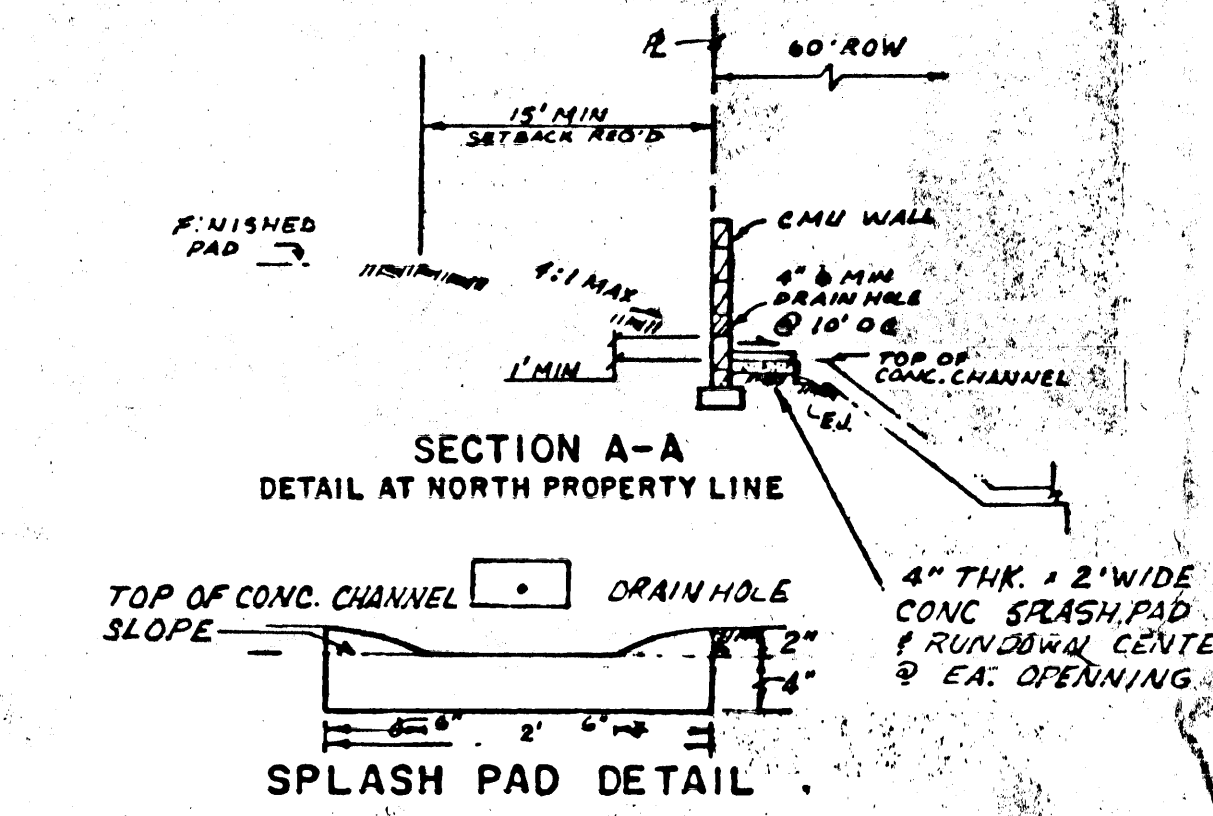
LEGAL DESCRIPTION

A CERTAIN TRACT OF LAND LYING AND BEING SITUATE WITHIN THE ELENA GALLEGOS GRANT AND BEING WITHIN PROJECTED SECTION 25, T11N, R3E, N.M.P.M., CITY OF ALBUQUERQUE, BERNALILLO COUNTY, NEW MEXICO, BEING AND COMPRISING TRACT A OF ACADEMY ACRES, UNIT 16, THE SAME AS SHOWN ON THE REPLAT OF TRACTS B-1, B-2 & B-3, ACADEMY ACRES UNIT 16, FILED IN THE OFFICE OF THE COUNTY CLERK OF BERNALILLO COUNTY, NEW MEXICO ON OCTOBER 13, 1992 (92C-225).



FOR ACADEMY ACRES UNIT 16 SUBDIVISION REPLAT OF TRACT "A"

SCALE 1"=20'



T.B.M.: REBAR W/CAP
N = 1,513,015.086
E = 402,385.077
ELEV. 5272.59

BENCH MARK
CITY OF ALBUQUERQUE A.C.S. BRASS CAP
"1-25-14, 1969" OF EAST FRONTAGE ROAD
OF 1-25 & N.M.S.H. DIST. 3 OFFICES
ELEV. = 5196.73

EXISTING RUN-DOWN STRUCTURE TO REMAIN. NO CONFLICT

NOTES

- CONTRACTOR SHALL PLAN HIS OPERATION TO MINIMIZE EROSION DURING THE CONSTRUCTION PHASE.
- THE ENGINEER WILL SUBMIT TO THE CITY OF ALBUQUERQUE, HYDROLOGY DEPT., A STATEMENT OF PROJECT COMPLETION WITH REFERENCE TO GENERAL COMPLIANCE WITH INFORMATION AND CRITERIA SET FORTH HEREIN.

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ALBUQUERQUE, NM 87107
(505) 345-2733

RESUBMITTAL

FIGURE IV

