HYDROLOGY

G17/D10
1 PLAN

G17/D10

1 Plan

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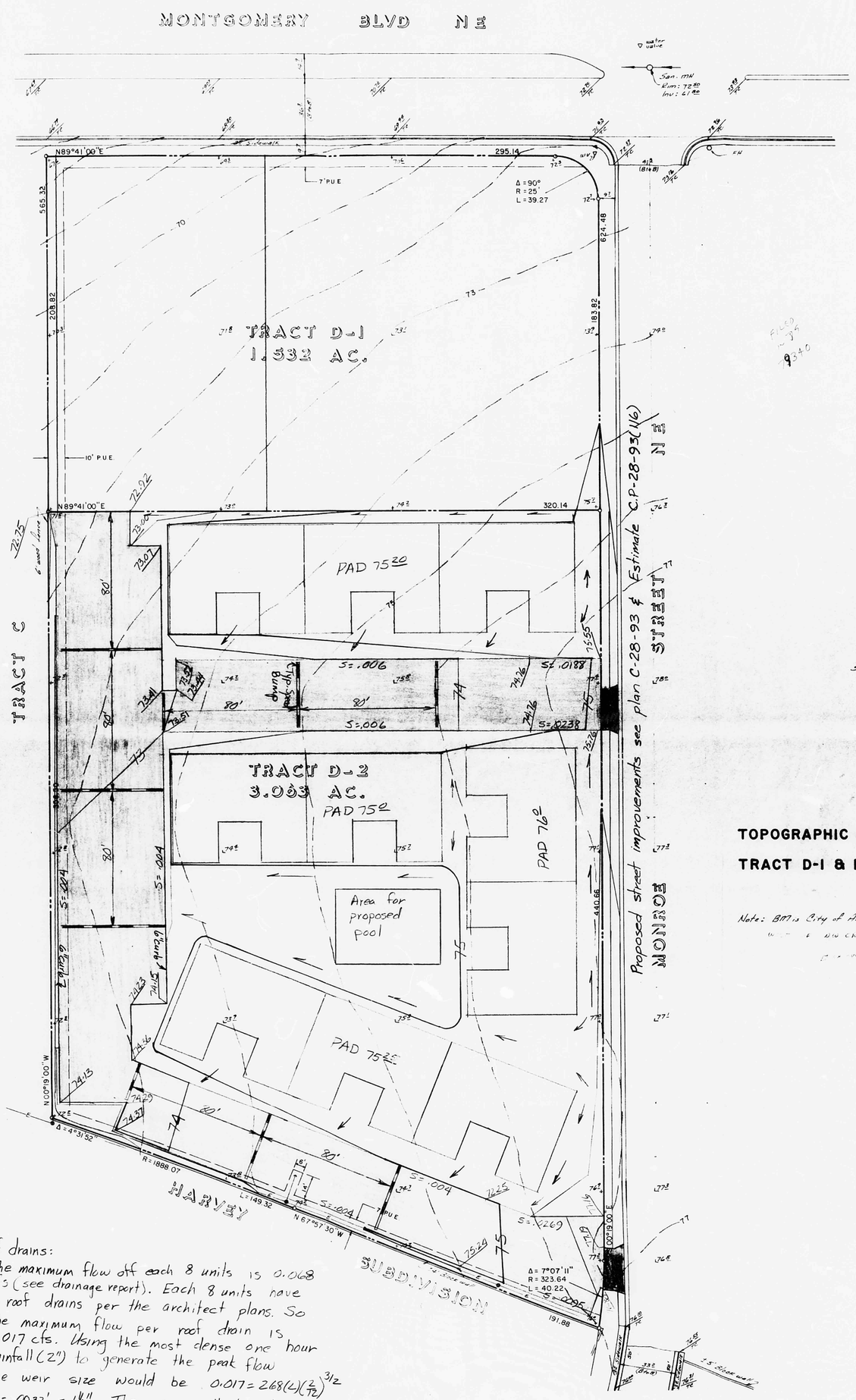
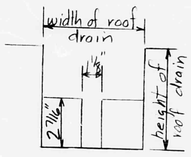


TOPOGRAPHIC AND LOCATION SURVEY OF
TRACT D-1 & D-2 ; Vista Grande Land Co. Add.

Note: BM is City of Albuquerque BM "6-F-17" - Elev. = 5162.232

Roof drains:

The maximum flow off each 8 units is 0.068 cfs (see drainage report). Each 8 units have 4 roof drains per the architect plans. So the maximum flow per roof drain is 0.017 cfs. Using the most dense one hour rainfall (2") to generate the peak flow the weir size would be $0.017 = 2.68(L)\left(\frac{2}{12}\right)^{3/2}$ $L = .0932' = 1\frac{1}{8}''$. The weir will be high enough to control the 100 year 6 hour storm (2.4"). A detail of the roof drain is shown:



The control slot can be constructed of metal or plastic. Should the control slot clog the roof drain can function as a regular drain with out exceeding a water depth of 4.8".

Note: Each speed bump is constructed to serve as a storm water retention device and should have a 4 inch opening to release low flows.

Grading & Drainage by:

ALESTON H. LAWS
NEW MEXICO
5025
LAND SURVEYOR
REGISTERED PROFESSIONAL ENGINEER

GRADING AND DRAINAGE PLAN
TRACT D-2
VISTA GRANDE LAND CO. ADD.

80 UNIT DEVELOPMENT
for
APARTMENT DEVELOPMENT Co
1921 Carlisle Blvd NE
Albuquerque, N.M. 87110
phone 265-5811