HYDROLOGY J17/D2 2 PLANS

J17/D2

2 Plans

City of Albuquerque
P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

MAYOR
David Rusk

February 2, 1979

Mr. John Bettis
Enchantment Engineering
1517 Eubank Blvd. N.E.
Albuquerque, New Mexico 87111

Re: Drainage Report for Chris Inman Construction,
Proposed Residential Development of the W. H. Inman Addition

Dear Mr. Bettis:

I have reviewed the drainage report for the above-mentioned subdivision and find that the report is in compliance with the requirements of the AMAFCA Resolution 72-2 and is hereby approved.

Very truly yours,

Bruno Conegliano
Assistant City Engineer-Hydrology

BC/fs

cc - Dick Heller
Rich Leonard
Drainage File

DRAINAGE REPORT
FOR

CHRIS INMAN CONSTRUCTION
PROPOSED RESIDENTIAL DEVELOPMENT
OF THE W.H. Inman Addition

January, 1979

PREPARED bY

ENCHANTMENT ENGINEERING
1517 Eubank Blvd. N.E.
Albuquerque, New Mexico 87111

PURPOSE:

The purpose of this report is to present to governing agencies a reasonable method of complying with City Ordinance 59-1976 and thereby lessen runoff from the proposed development to an amount not in excess of the flow to be expected from the property in its present state. This report is composed of a narrative of existing and proposed conditions and computations to determine and recommend runoff control structures.

LOCATION AND TERRAIN:

The proposed development is located on the north side of Marble Avenue, N.E., between Monroe Street and Quincy Street in the northeast quadrant of the City (see vicinity map, Plate One for exact location).
The property generally slopes from northeast to southwest at a rate of between 2 and 3.3 percent. The soil is composed primarily of sandy silt with small amounts of clay. In its present state the property is devoid of vegetation. Considering the existing slope and the lack of vegetation the infiltration may be assumed to be no more than one half inch per hour with natural storage of runoff almost negligible.

PROPOSED DEVELOPMENT:

The site drainage plan provided in this report shows the approximate locations of the proposed buildings, driveways, proposed grades and stormwater ponding areas. Driveways and walks will be concrete and buildings will be of frame construction with composition roofs. All landscaping and stormwater ponding areas are to have natural surfaces. (see plate 3)

UPLAND DRAINAGE:

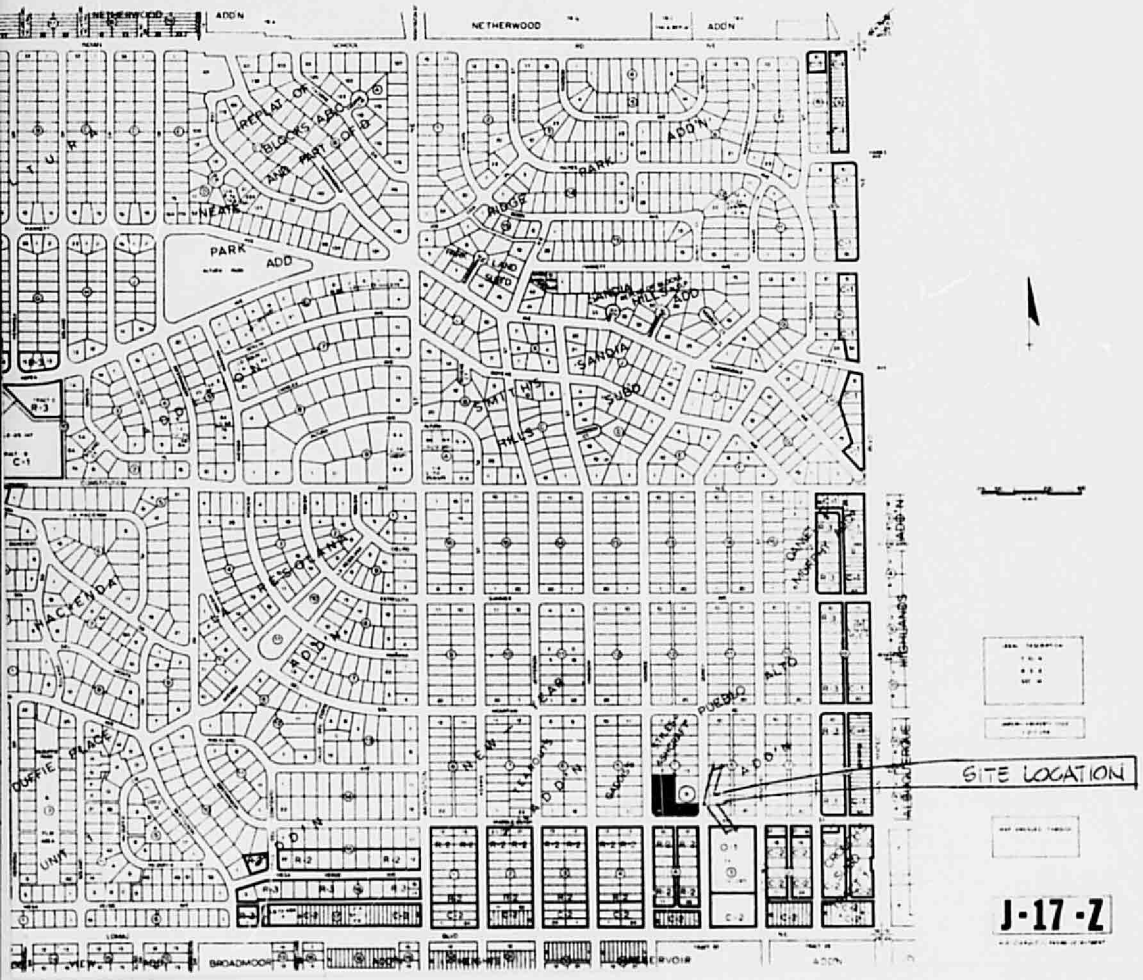
There is very little upland drainage entering the property. Flows from the east are diverted to the south on Quincy Street. Both Quincy Street and Monroe Street have summits north of the property and stormwater flows to the north beyond those summits. Water flowing south from the summits crosses Marble Avenue and continues south. The only upland drainage which could possible affect the development enters from Lot "B" of the Stiles-Ashcraft Addition (filed Dec. 20, 1950). Lot "B" is a fully developed, landscapted parcel containing 22275 square feet. On it is a residence which covers about 3000 square feet. From the rear of the residence on Lot "B" east, stormwater will flow to the east and discharge into Quincy Street. Any flows generated from the rear of the residence west enters the proposed development along the rear property lines of lots 1,2 and 6. The tributary area of these flows amount to about one-third of lot "B". Because of the landscaping on that parcel the generated runoff is almost negligible. (see plate 2) Any flows which may enter lots 1 and 2 will be routed through ponds in the rear, thence to the south of the buildings and will be finally discharged onto Monroe Street. Any flows which may enter lot 6, will likewise be routed through a pond at the rear of the property thence between the buildings on lots 5 and 6 and will be discharged onto Marble Avenue

INTERNAL DRAINAGE:

Portions of the flows developed internally will be stored in retention ponds located in the rear yards of all lots. The ponds shall be constructed as shown so as to contain the six-hour, 100 year frequency storm runoff that is in excess of that generated by the properties in their existing conditions. (see plate 3) The stored runoff will be dissipated by infiltration and evaporation.

CONCLUSIONS:

Flows generated by the proposed development will be partially stored on site. Those flows in excess of storage capacities together with upland drainage crossing the development will be allowed to exit to both Monroe Street and Marble Avenue. Downstream flows will be less than those now experienced due to slightly oversize retention ponds.


NETHERWOOD
ADD'N
NETHERWOOD
ADD'N
REPLAT OF BLOCKS 1 & 2 AND PART OF 3
NEATE PARK ADD
PARK ADD'N
MIDDLE PARK
LANDON HILLS ADD
SANDIA SUBD
SMITHS HILLS
HACIENDA
RESTAURANT ADD'N
DUFFIE PLACE
UNIV
NEW LAGUNA ADDITION
BLOCKS
PURDUE BLVD
ADD'N
HIGHLANDS
ADD'N
BROADMOOR
RESERVOIR
ADD'N
SITE LOCATION

J-17-Z

PLATE - 1

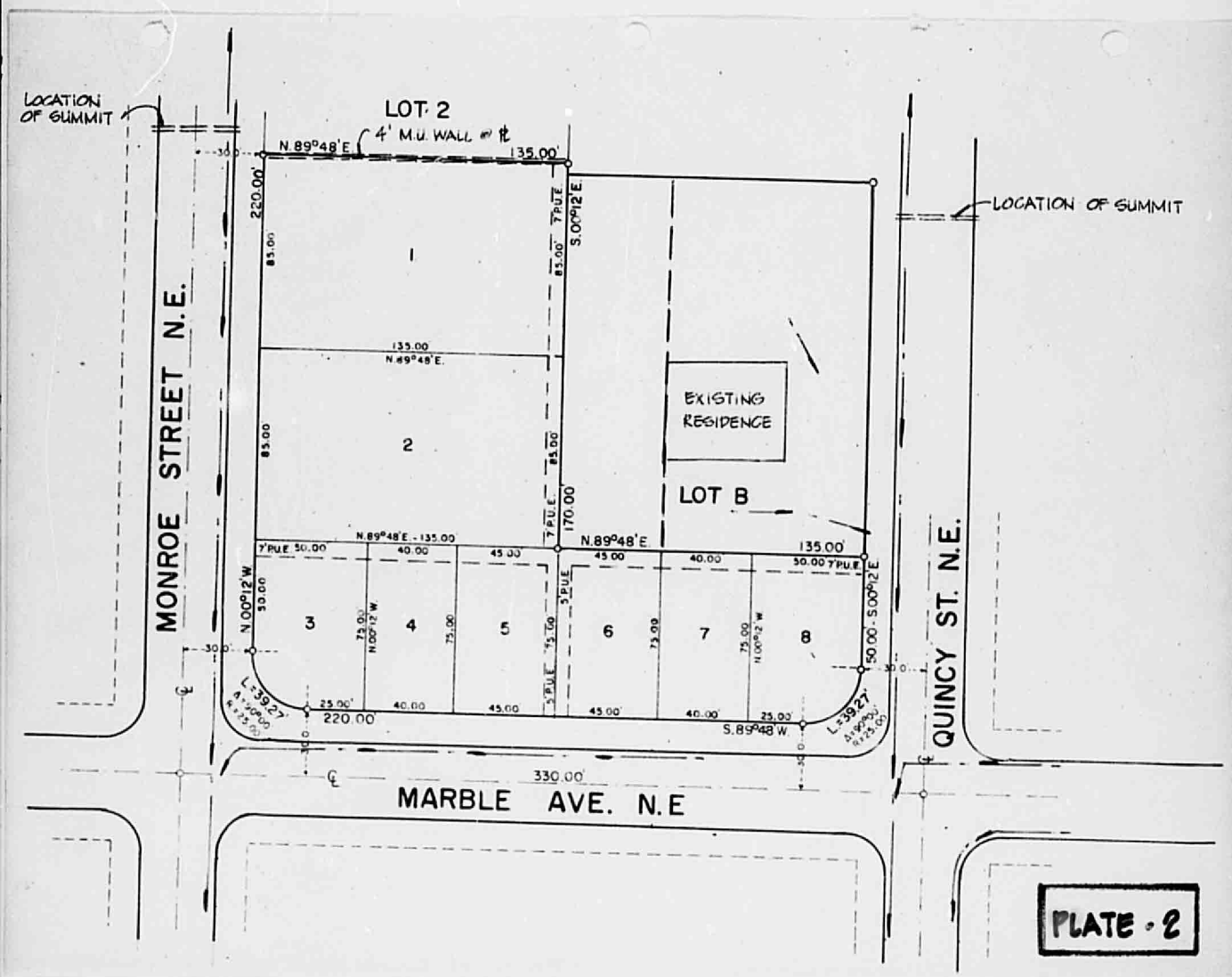

LOCATION OF SUMMIT
LOT 2
4' M.U. WALL
N.89°48'E
135.00'
220.00'
85.00
7'PUE
S.00°12'E
1
135.00
N.89°48'E.
2
85.00
EXISTING RESIDENCE
LOT B
170.00
N.89°48'E - 135.00
N.89°48'E.
135.00'
7'PUE 50.00'
40.00
45.00
45.00
40.00
50.00 7'PUE
N.00°12'W
30.00
3
4
5
6
7
8
75.00
5'PUE
50.00 - S.00°12'E
L=39.27'
25.00'
220.00
S.89°48'W.
25.00'
330.00'
MONROE STREET N.E.
QUINCY ST. N.E.
MARBLE AVE. N.E
LOCATION OF SUMMIT

PLATE - 2