HYDROLOGY

F14/D20
ONE PLAN

F14/D20

1 Plan

REVISED

DRAINAGE PLAN

TRACTS 130 A2A AND 143A1, MRGCD MAP # 32

ALBUQUERQUE, NEW MEXICO

ZONE MAP F-14 BENCHMARK 1-F14 ELEV. 4972.71 FLOOD PANEL 15

ZONED C-2 TOTAL AREA = 17,358 SQ. FT. = 0.399 ACRES

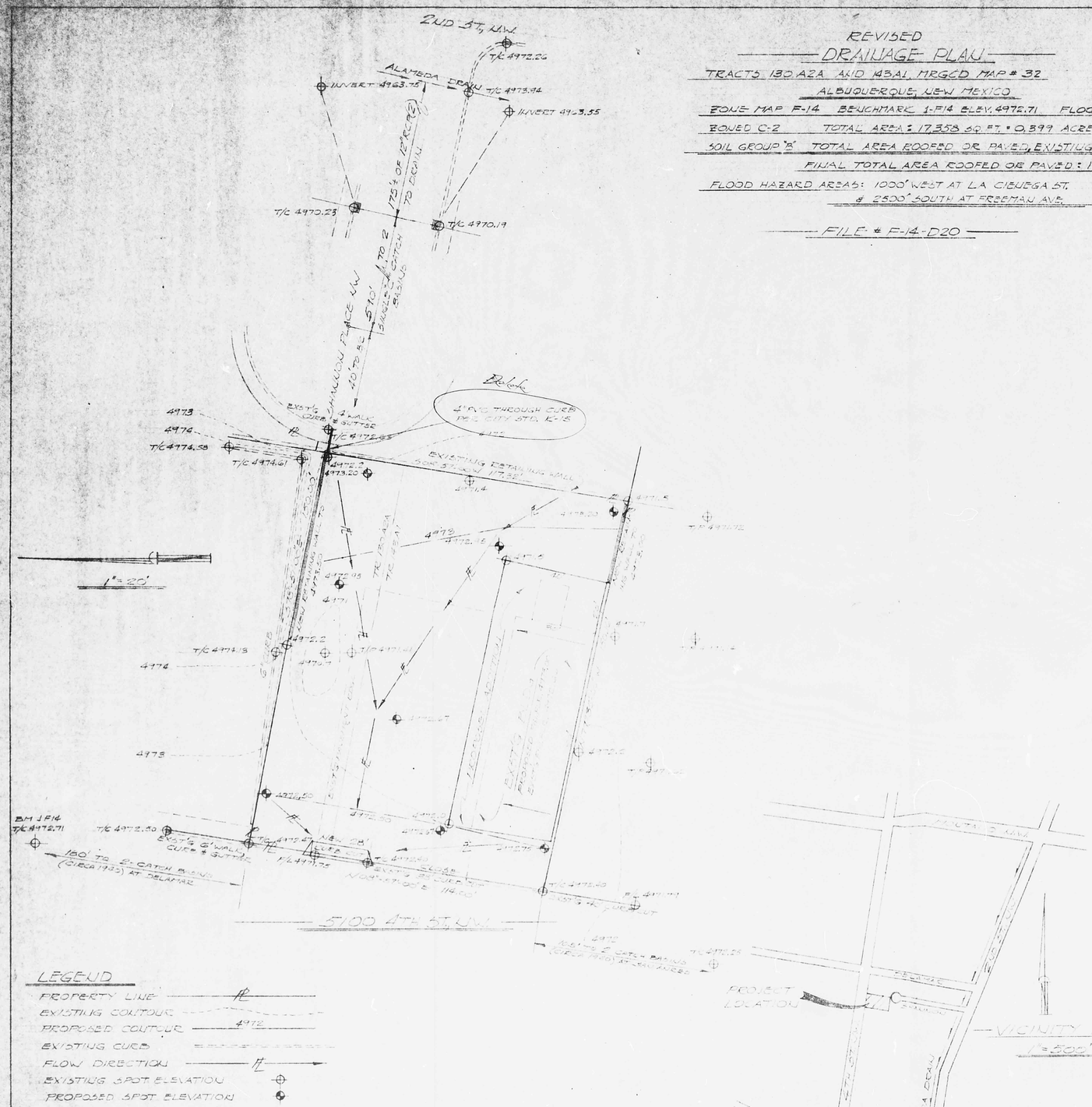
SOIL GROUP "B" TOTAL AREA ROOFED OR PAVED, EXISTING: 9000 S.F. = 52%

FINAL TOTAL AREA ROOFED OR PAVED: 16,500 S.F. = 95%

FLOOD HAZARD AREAS: 1000' WEST AT LA CIBUEGA ST.

& 2500' SOUTH AT FREEMAN AVE.

FILE # F-14-D20



HYDROLOGY

100 YEAR STORM - 6 HOUR RAINFALL - PER DPM 22.2 D1 = 2.20" TOTAL

EXISTING: I = 2.2 ÷ 2.3 = 5.06, C = 0.58 & CN = 80 - PER DPM 22.2 C1 & 2

DEVELOPED "Q" = CIA = 0.56 × 5.06 × 0.40 = 1.13 CFS & TIME OF CONCENTRATION = 10 MIN.

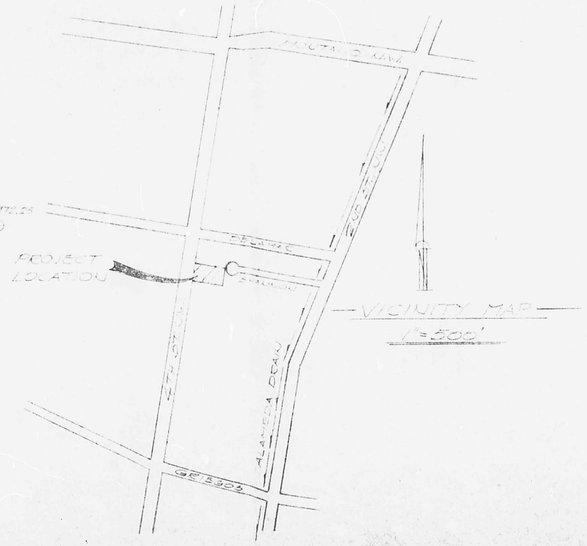
MAXIMUM RUNOFF PER CURVE 80 - 0.7" × 17,358 S.F. = 1013 CU. FT. EXISTING.

PROPOSED: C = 0.86 & CN = 92, Q = 0.86 × 5.06 × 0.40 = 1.74 CFS & MAX. RUNOFF PER CN 92 = 1.4 = 2025 CF

ADDITIONAL Q = 0.61 CFS, ADDITIONAL RUNOFF = 1000 CU. FT. ±

FREE DISCHARGE INTO 4TH ST. IS REQUESTED.

EXISTING "Q" FROM DELAMAR TO SAN AUDRES IS 5.40 CFS - PROPOSED ADDITIONAL 0.61 CFS = 11% INCREASE. CAPACITY OF 1/2 OF 4TH ST. (60') = 13.3 CFS. TOTAL OF EXISTING & PROPOSED "Q" = 6.0/13.3 = 45% OF CAPACITY.



VICINITY MAP

1" = 800'

RECEIVED OCT 31 1984 HYDROLOGY SECTION

NOTE:
300 CU. YDS. OF FILL IS REQUIRED TO ACHIEVE DESIRED SLOPES.

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DRAINAGE PLAN

For: PLAZAY LANDES

At: 5700 4TH ST. NW

ALBUQUERQUE, NM