HYDROLOGY

K22/D32

K22/D32

FRUIT AVENUE

4-PLEX

1 PLAN

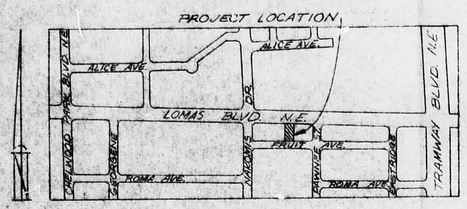
DRAINAGE PLAN

LOT 4-BLOCK 3-CHELWOOD PARK ADDITION

ALBUQUERQUE, NEW MEXICO

ZONE MAP K-22 BENCHMARK 13-K22 ELEV. 5720.26
FLOOD PANEL 31 SOIL GROUP "B"
TOTAL AREA: 7500 SQ. FT. = 0.172 ACRES - AREA ROOFED OR PAVED: 4900 S.F. = 65%
FLOOD HAZARD AREAS: 2000' SW AT CHELWOOD & MARQUETTE

REVISED K22-D32 12-17-84 & 1-18-85



VICINITY MAP
1"=500'

HYDROLOGY

OFFSITE DRAINAGE: MINIMAL - POSSIBLY 250 SQ.FT. FROM EAST = 0.08 CFS

ON-SITE DRAINAGE:

EXISTING: $I = 2.52 \times 2.3 = 5.80$, $C = 0.27$, $\phi = 0.27 \times 5.80 \times 0.172 = 0.27$ CFS

PROPOSED: $C = 0.65$, $\phi = 0.65 \times 5.80 \times 0.172 = 0.65$ CFS & TOTAL RUNOFF = 0.270' = 450 CU.FT.

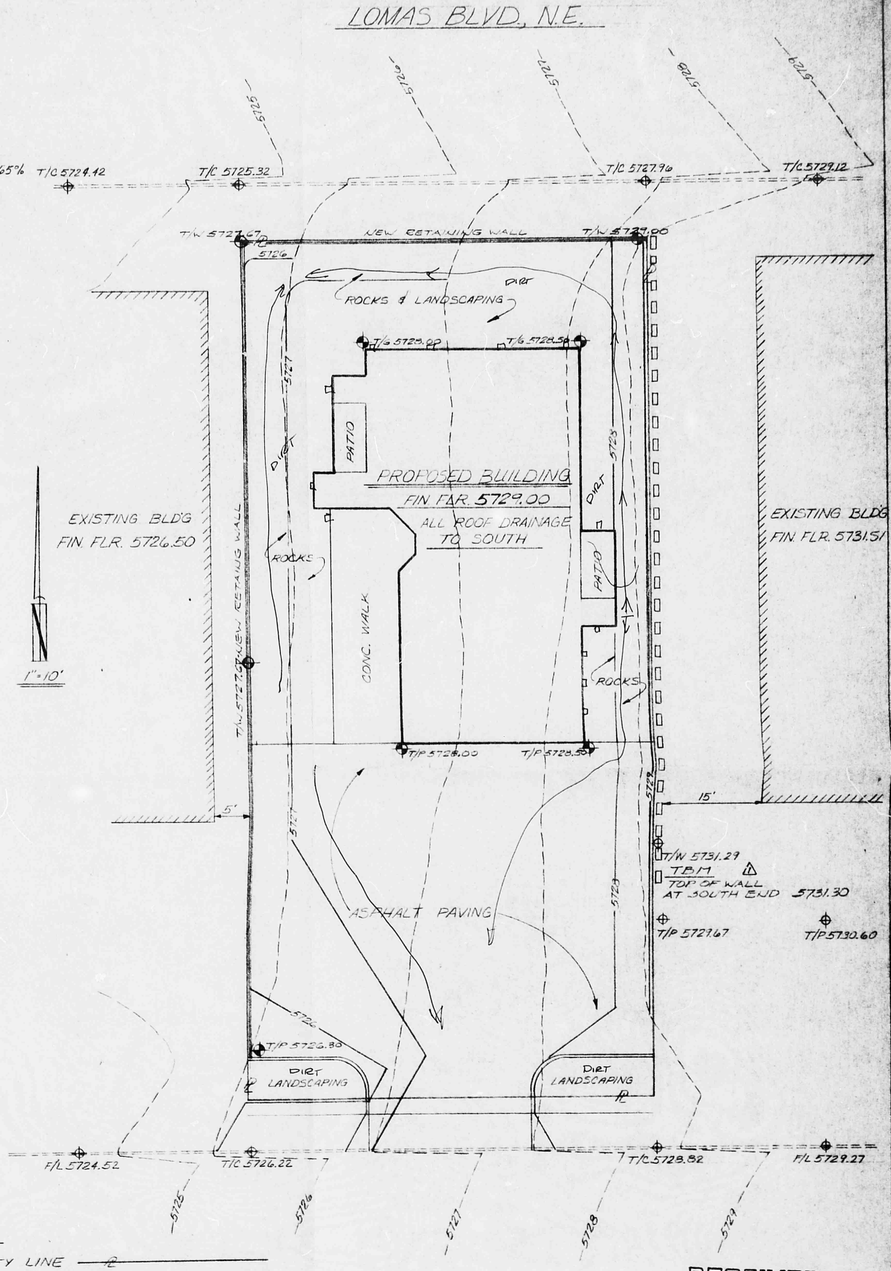
ADDITIONAL RUNOFF = 0.38 CFS MAXIMUM

EXISTING "Q" IN FRUIT AVENUE FROM 3.5 ACRES = $0.65 \times 5.80 \times 3.5 = 13.2$ CFS

CAPACITY OF 32' STREET AT 5% = 0.043 = 120 CFS AT 5' DEPTH PER DPM 22.8.D-1

∴ FREE DISCHARGE INTO FRUIT AVENUE IS REQUESTED

PROPOSED ADDITIONAL DISCHARGE IS 0.32% OF CAPACITY



LEGEND:

- PROPERTY LINE
- EXISTING CONTOURS
- FINAL CONTOURS
- EXISTING CURBS & WALKS
- FLOW DIRECTION
- EXISTING SPOT ELEVATION
- FINAL SPOT ELEVATION
- EXISTING C.M.U. WALL

13113 FRUIT N.E.

RECEIVED
JAN 18 1985
HYDROLOGY SECTION

⚠ SET TBM 1-18-85

DUANE LOGAN
CONSULTING CIVIL ENGINEER
501 KINLEY N. E. 243-6353
ALBUQUERQUE, NEW MEXICO 87102

DRAINAGE PLAN	File # H-64
For: CHRIS DASKALOS	Date 12-13-84
At: 13113 FRUIT AVE. N.E.	Drawn CLL
ALBUQUERQUE, N.M.	Sheet 1 OF 1

DUANE LEE LOGAN REGISTERED PROFESSIONAL ENGINEER N.M. 2360

DUANE L. LOGAN 2360 REGISTERED PROFESSIONAL LAND SURVEYOR

1-18-85

K22/D32

CITY OF ALBUQUERQUE
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