HYDROLOGY R13/D3 1 PLAN

R13/D3

1 Plan

D 24 C 20 B 16 A 12 CITY OF ALBUQUERQUE C D

DRAINAGE PLAN

TRACT A-2, RCA INDUSTRIAL PARK

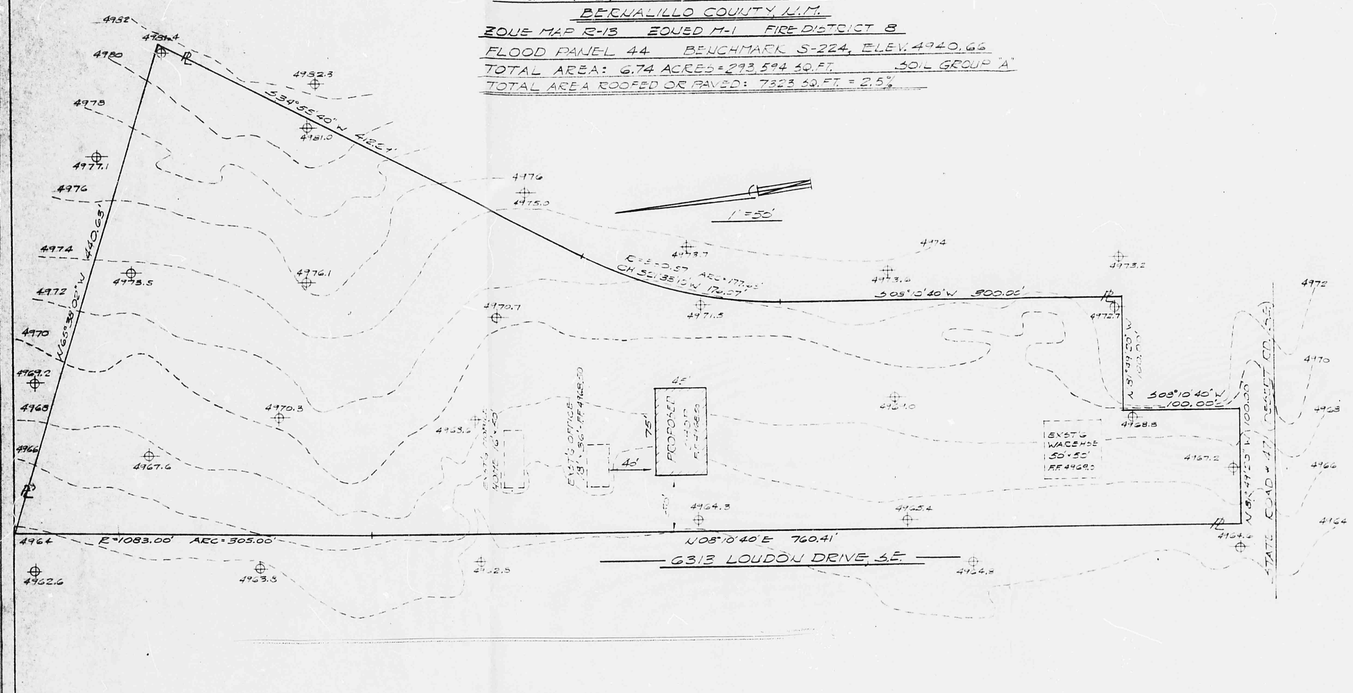
BERNALILLO COUNTY, N.M.

ZONE MAP R-13 ZONED M-1 FIRE DISTRICT 8

FLOOD PANEL 44 BENCHMARK S-224, ELEV. 4940.66

TOTAL AREA: 6.74 ACRES = 293,594 SQ.FT. SOIL GROUP "A"

TOTAL AREA ROOFED OR PAVED: 7323 SQ.FT. = 2.5%



HYDROLOGY

100 YR. STORM-GHE RAINFALL - PER DPM 22.2D1 = 2.30" TOTAL

I = 2.3 ÷ 2.3 = 5.06 INCH/HR. MAX., C = 0.17 & CN = 50, PER DPM 22.2C1 & 2

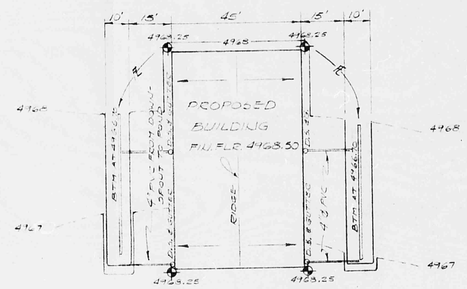
Q = 0.17 × 5.06 × 1.0 = 0.86 CFS/ACRE, TOTAL RUNOFF = < 0.10 PER DPM 22.2C4

RUNOFF VOLUME = 0.01 × 43560 = 435 CU.FT. PER ACRE

OFFSITE FLOW: PRIMARILY SHEET FLOW, WITH NO WELL-DEFINED DRAINAGE COURSES, AREA ≈ 10 ACRES - NO EFFORT WILL BE MADE TO IMPEDE THE EXISTING SHEET FLOW.

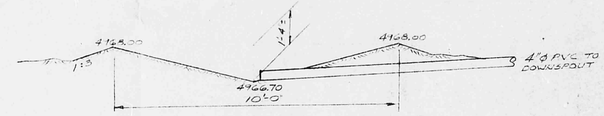
ON SITE FLOW: MAXIMUM RUNOFF FROM PROPOSED BUILDING = 2.3" × 8,375 SQ.FT. = 650 CU.FT. / 2 = TWO RETENTION AREAS 50' LONG × 10' WIDE × 1.3' MAX. DEPTH - SEE DETAIL

ROOF Q = 1.0 × 5.06 × 0.077 = 0.39 CFS ∴ 2-4" PVC PIPES ARE ADEQUATE TO CARRY ROOF RUNOFF TO POINDS



POINDING PLAN

1" = 20'



POND CROSS-SECTION

1/2" = 1'-0"

LEGEND

PROPERTY LINE

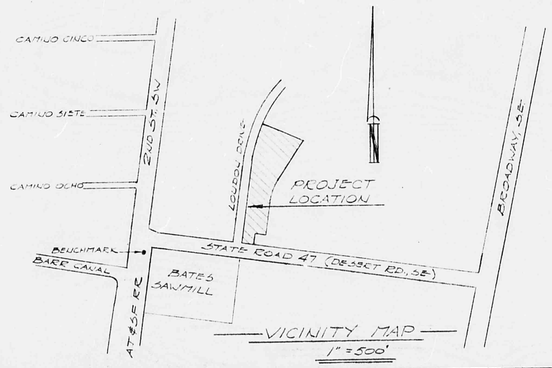
EXISTING CONTOUR

PROPOSED CONTOUR — 4970

FLOW DIRECTION

EXISTING SPOT ELEVATION

PROPOSED SPOT ELEVATION



VICINITY MAP

1" = 500'

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

DUANE LEE LOGAN N.M. 2300 REGISTERED PROFESSIONAL ENGINEER

10-16-84

DRAINAGE PLAN	File # 5-47
For: CHAVA TRUCKING CO.	Date 10-15-84
At: 6313 LOUDON DRIVE, SE	Drawn DLL
BERNALILLO COUNTY, N.M.	Sheet 1 OF 1

CITY OF ALBUQUERQUE
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CITY OF ALBUQUERQUE

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