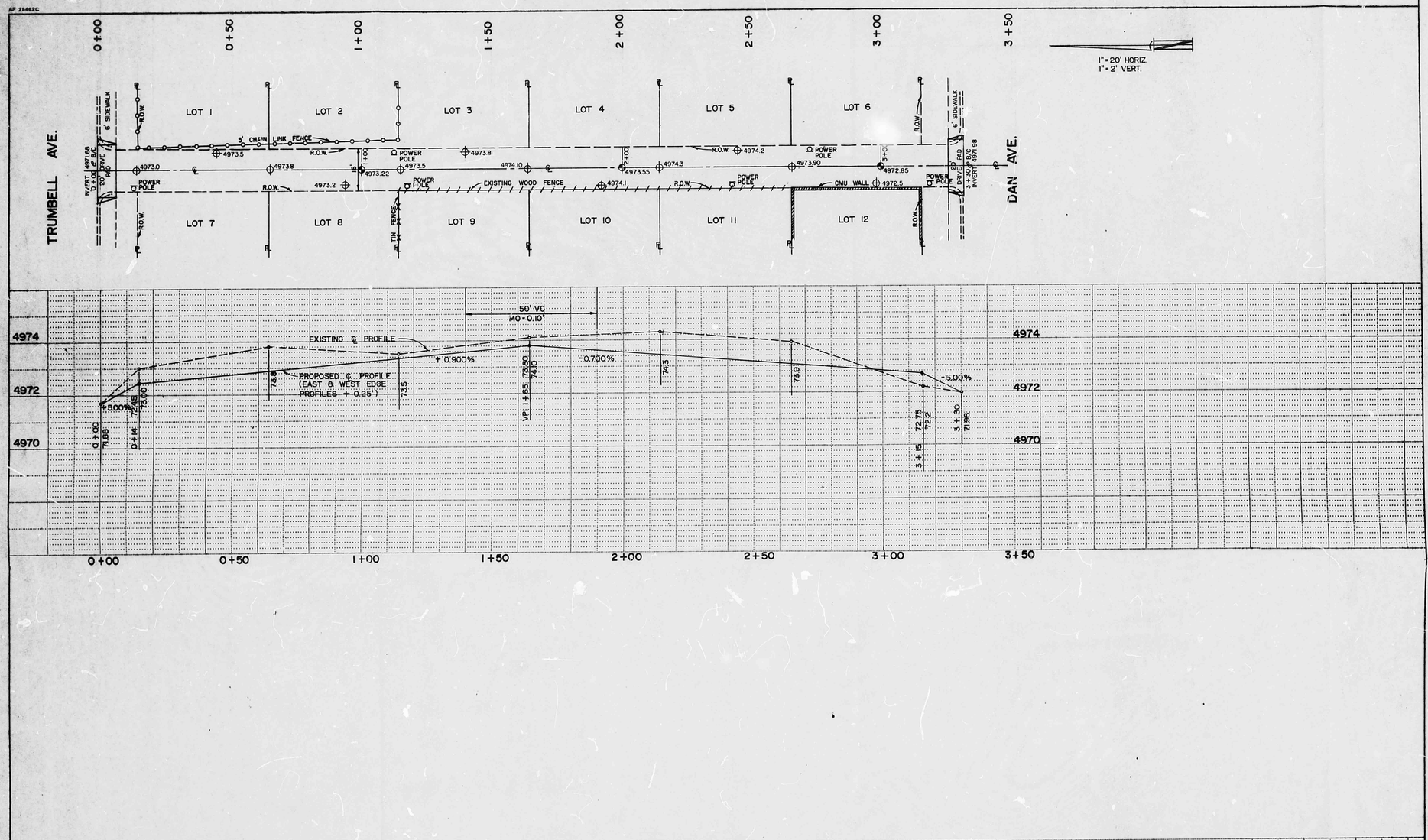
ydrology L14/D16 Fishnet

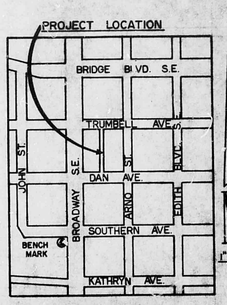
L14/D16

FISHNET

2 PLANS

AP 23462C





VICINITY MAP

LEGAL DESCRIPTION

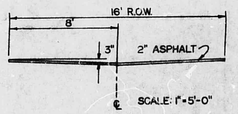
BLOCK 39 OF EASTERN ADDITION, ALBUQUERQUE NEW MEXICO

NOTES

1. 2" ASPHALT CONCRETE PAVING WILL BE CONSTRUCTED ACCORDING TO CITY LICENSE AGREEMENT.
2. TWO (2) WORKING DAYS PRIOR TO ANY EXCAVATION, CONTRACTOR MUST CONTACT LINE LOCATING SERVICE AT 766 1234.
3. NO WATER OR SANITARY SEWER EXISTS IN ALLEY.

LEGEND

EXISTING PROFILE
PROPOSED PROFILE
EXISTING SPOT ELEVATION
PROPOSED SPOT ELEVATION
EXISTING CURB
EXISTING CHAIN LINK FENCE
EXISTING CMU WALL
EXISTING WOOD FENCE
EXISTING TIN FENCE



TYPICAL TEMPORARY SECTION

0+06 TO 3+08
PER CITY LICENSE AGREEMENT

RECEIVED
SEP 11 1985
HYDROLOGY SECTION

CITY ENGINEER

APPROVED FOR GRADES ONLY

AS BUILT INFORMATION

CONTRACTOR — DATE
STAKED BY — DATE
INSPECTOR'S ACCEPTANCE BY — DATE
FIELD VERIFICATION BY — DATE
DRAWINGS CORRECTED BY — DATE

MICRO-FILM INFORMATION

RECORDED BY — DATE
NO.

BENCH MARKS

2-L14 SOUTHWEST QUADRANT OF THE INTERSECTION OF BROADWAY BLVD. & SOUTHERN AVE. S.E.

SURVEY INFORMATION

FIELD NOTES

NO.	BY	DATE
	C.R. & D.L.L.	8/30/85

ENGINEER'S SEAL

DUANE LOGAN
501 KINLEY, N.E.
ALBUQUERQUE, N.M.
(505) 243-6353

NO.	DATE	REMARKS	BY

REVISIONS

DESIGN

DESIGNED BY D.L.L. — DATE 8/9/85
DRAWN BY C.L.L. — DATE 8/12/85
CHECKED BY C.R. — DATE 8/13/85

CITY OF ALBUQUERQUE
MUNICIPAL DEVELOPMENT DEPARTMENT
ENGINEERING DIVISION

TITLE: ALLEY GRADES EAST OF BROADWAY BETWEEN TRUMBELL AVE. & DAN AVE.

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer			Liquid Waste		
A.C.E.-Design			Traffic		
A.C.E.-Hydrology			Water		

PROJECT NO. 2622 | MAP NO. L-14 | SHEET 1 OF 1

DRAINAGE PLAN

TRACT A (LOTS 7 & 8) BLOCK 32, EASTERN ADDITION (FILED 12-2-85, BOOK C25-PG 196)

ALBUQUERQUE, NEW MEXICO

ZONE MAP L-14 BENCHMARK L14 ELEV. 4969.90

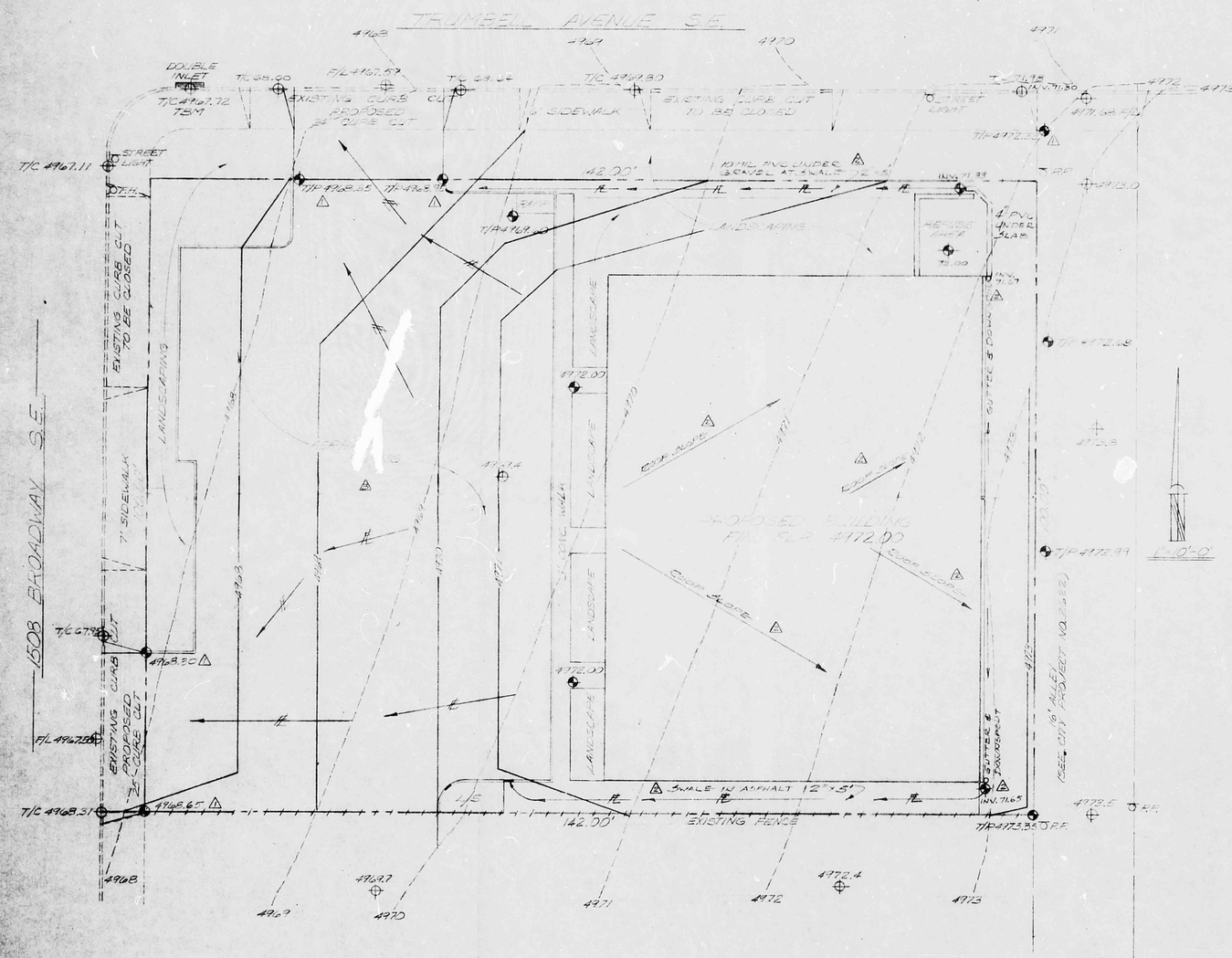
FLOOD MAP 54 SOIL TYPE A

TOTAL AREA: 14,200 SQ. FT. = 0.326 ACRES

TOTAL AREA ROUTED OFF SITE: 12,350 SQ. FT. = 87%

FLOOD HAZARD AREA: NONE

FILE # L14/D16 APPROVED: 10-11-85



HYDROLOGY

OFF SITE FLOW: MINIMAL SHEET FLOW ACROSS SOUTHWEST CORNER. AREA = < 0.1A

ON-SITE FLOW: EXISTING CONDITIONS "C" = 0.50, I = 2.3 × 2.3 = 5.29, A = 0.326

Q_{100} = 0.50 × 5.29 × 0.326 = 0.86 CFS

PROPOSED CONDITIONS "C" = 0.72, Q = 0.72 × 5.29 × 0.326 = 1.24 CFS

ADDITIONAL 0.38 CFS DUE TO PROPOSED CONSTRUCTION IS ABOUT EQUAL TO CONTROLLED DISCHARGE THROUGH 4" PVC PIPE FROM DETENTION AREA.

FREE DISCHARGE IS PROPOSED.

HYDRAULICS

FLOW WILL BE ABOUT EQUALLY DIVIDED BETWEEN TWO 24' CURB CUTS WITH Q = 0.62 CFS ±. CAPACITY OF CURB CUT, WITH MINIMUM AVERAGE DEPTH OF 0.15', A = 24' × 0.075 = 1.80 SQ. FT.

"n" = 0.017, P = 24', R = 0.015, S = 0.045 ∴ Q = 1.8 × 1.486 / 0.017 × 0.178 × 0.212 = 5.74 CFS ∴ CURB CUTS ARE ADEQUATE TO PERMIT DISCHARGE OF ANTICIPATED RUNOFF.

△ SWALE 6" × 5', REQ'D Q = 0.35 CFS, A = 0.4 S.F., n = 0.02, S = 0.01, P = 5', R = 0.08

Q = 0.40 × 1.486 × 0.16 × 0.10 / 0.020 = 0.55 CFS ∴ ADEQUATE

EROSION CONTROL NOTES

THE CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLIANCE TO THE FOLLOWING:

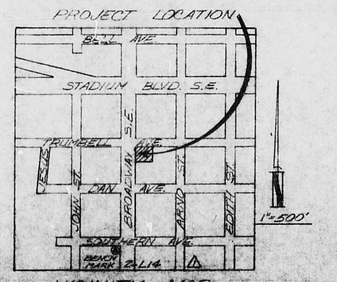
1. NO SEDIMENT-BEARING WATER SHALL BE ALLOWED TO DISCHARGE THE SITE DURING CONSTRUCTION.
2. DURING GRADING OPERATIONS AND UNTIL THE PROJECT HAS BEEN COMPLETED, ALL ADJACENT PROPERTY, RIGHTS-OF-WAY, AND EASEMENTS SHALL BE PROTECTED FROM FLOODING.
3. ANY AND ALL SEDIMENTATION ORIGINATING ON THE SITE WHICH IS DEPOSITED WITHIN PUBLIC RIGHT-OF-WAY SHALL BE PROMPTLY AND COMPLETELY REMOVED BY THE CONTRACTOR.

GENERAL NOTES: △

SURFACE FLOWS ACROSS THE LOT LINE ARE MINIMAL AND CAN BE SEPARATED COMPLETELY IF REQUIRED.

LEGEND

PROPERTY LINE
EXISTING CONTOUR — 4959 —
PROPOSED CONTOUR — 4960 —
EXISTING SPOT ELEVATION ⊕
PROPOSED SPOT ELEVATION ◆
FLOW DIRECTION
EXISTING CURBS & WALKS
EXISTING FENCE



VICINITY MAP

ZONE MAP L-14

△ DELETED LOT LINE & 2' ASPHALT RIDGE 12-2-85

△ REVISED 9/10/85 △ REVISED 11/14/85

DUANE LOGAN N. M. 2300 REGISTERED PROFESSIONAL ENGINEER 8/28/85

RECEIVED DEC 03 1985 HYDROLOGY SECTION

DUANE LOGAN
CONSULTING ENGINEER